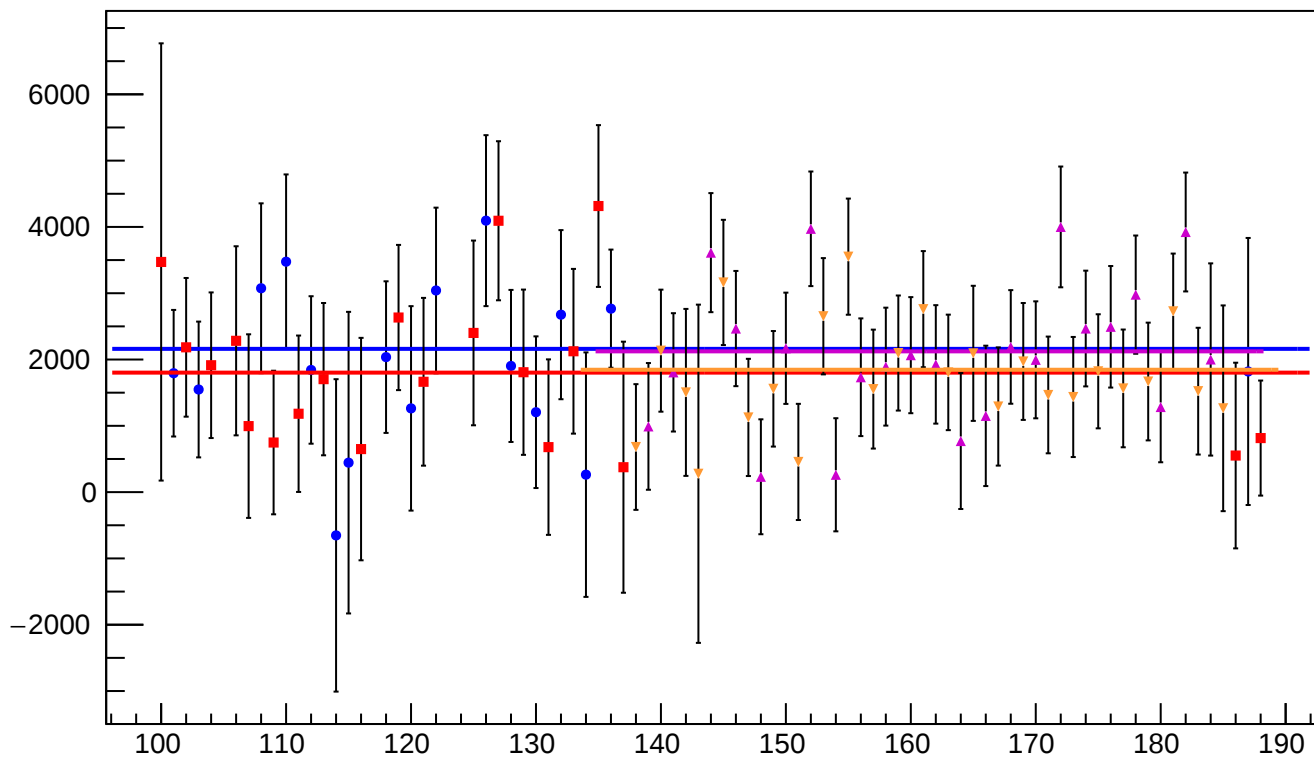


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2160.929+/-304.461

Left Out: 1845.799+/-186.902

Right Out: 1802.417+/-278.931

Left In: 2123.138+/-188.684

χ^2/NDF : 9.7/16

χ^2/NDF : 15.5/24

χ^2/NDF : 14.7/19

χ^2/NDF : 32.0/22

Left: 1983.152+/-132.785

Right: 1966.014+/-205.668

In: 2133.625+/-160.382

Out: 1832.356+/-155.268

All: 1978.110+/-111.555

χ^2/NDF : 48.6/47

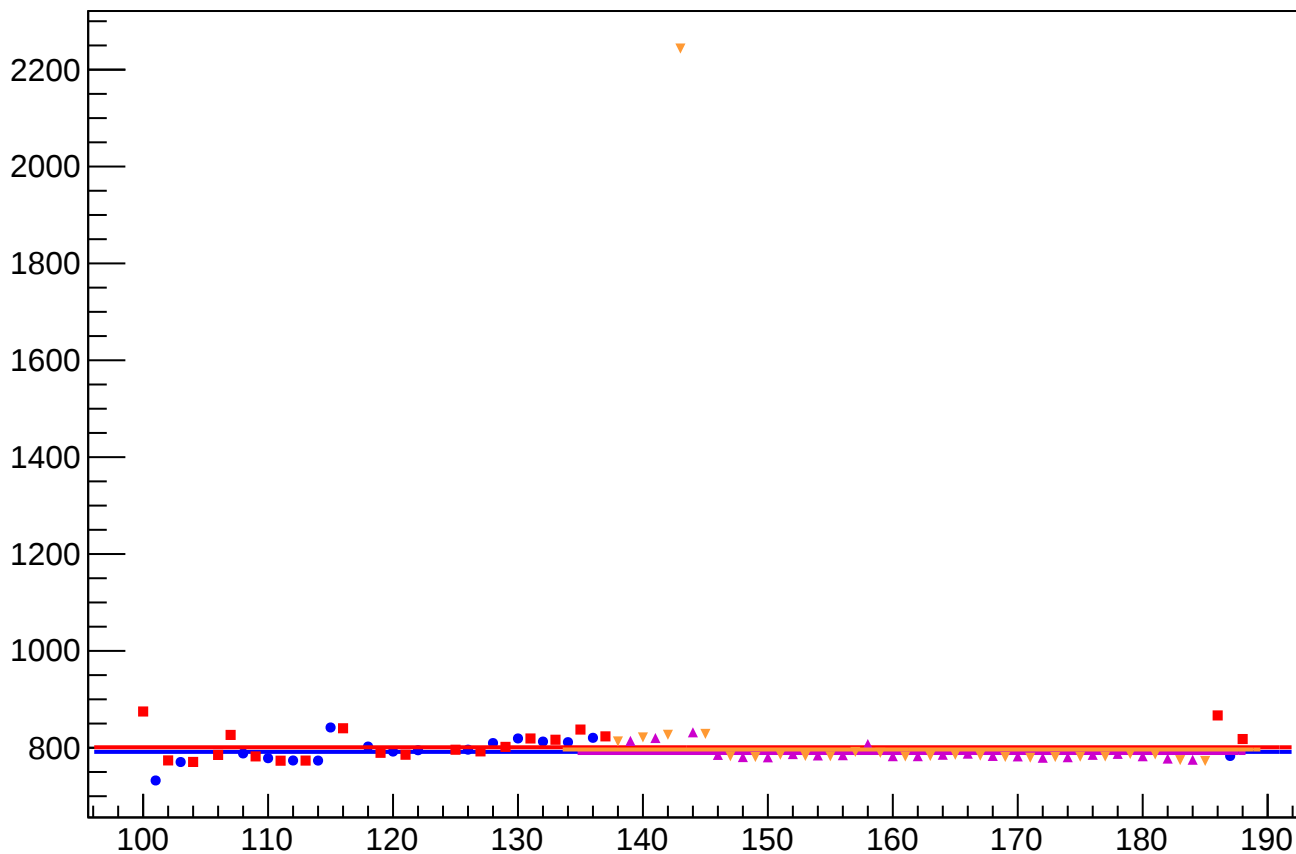
χ^2/NDF : 25.1/36

χ^2/NDF : 41.7/39

χ^2/NDF : 30.2/44

χ^2/NDF : 73.7/84

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 791.525 $\pm$ 0.215 χ^2 /NDF: 15157.9/16

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

Right Out: 801.018 $\pm$ 0.197 χ^2 /NDF: 17326.4/19

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

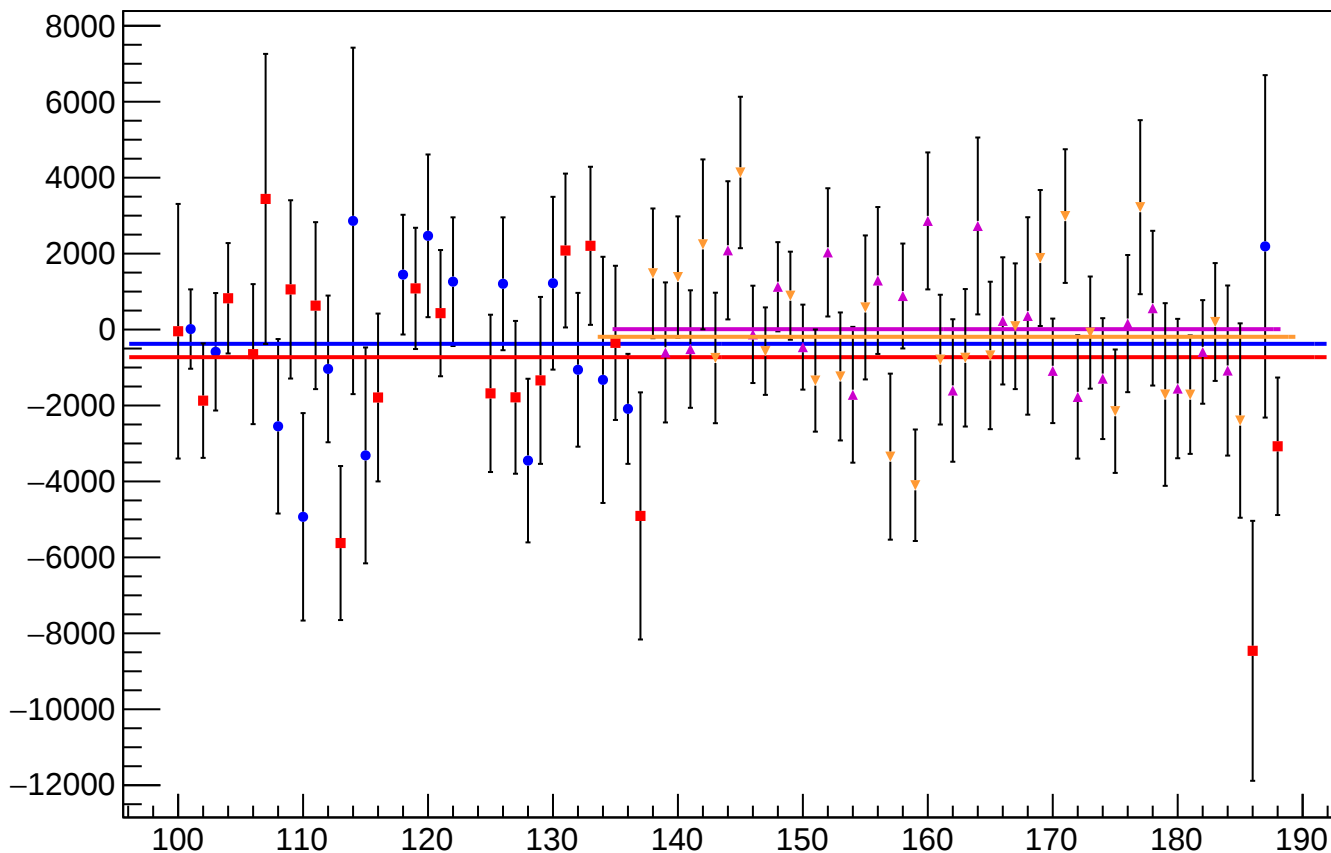
Right: 796.686 $\pm$ 0.145 χ^2 /NDF: 33541.5/36

In: 789.834 $\pm$ 0.113 χ^2 /NDF: 26586.5/39

Out: 797.859 $\pm$ 0.110 χ^2 /NDF: 676406.9/44

All: 793.977 $\pm$ 0.079 χ^2 /NDF: 705578.4/84

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -375.926+/-462.995 χ^2/NDF : 14.8/16

Left Out: -191.027+/-333.904 χ^2/NDF : 30.1/24

Right Out: -727.436+/-454.340 χ^2/NDF : 24.7/19

Left In: 10.093+/-337.810 χ^2/NDF : 14.2/22

Left: -91.637+/-237.475 χ^2/NDF : 44.5/47

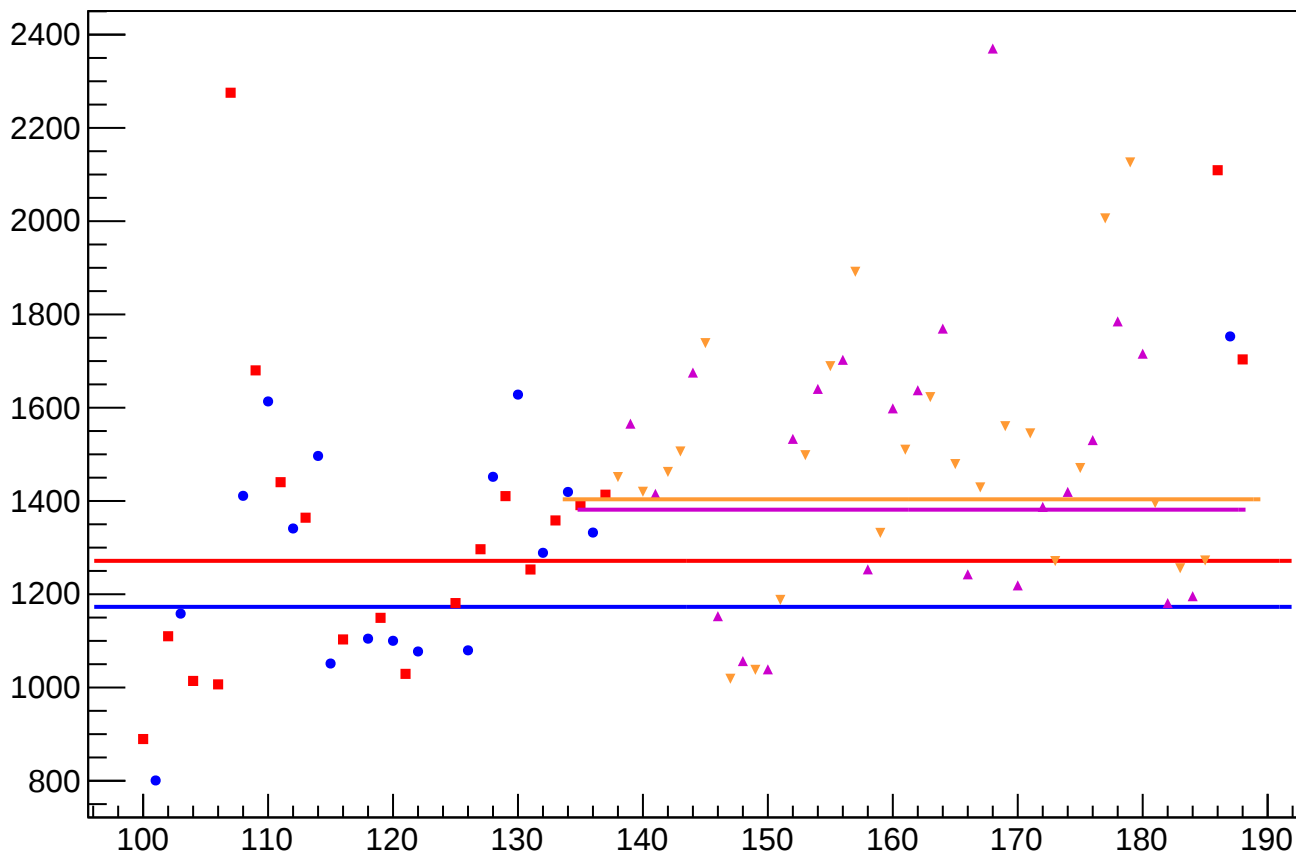
Right: -554.997+/-324.284 χ^2/NDF : 39.8/36

In: -124.012+/-272.894 χ^2/NDF : 29.5/39

Out: -379.143+/-269.058 χ^2/NDF : 55.7/44

All: -253.383+/-191.595 χ^2/NDF : 85.6/84

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1172.959 $\pm$ 0.327 χ^2 /NDF: 563229.6/16

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

Right Out: 1271.630 $\pm$ 0.321 χ^2 /NDF: 693542.8/19

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

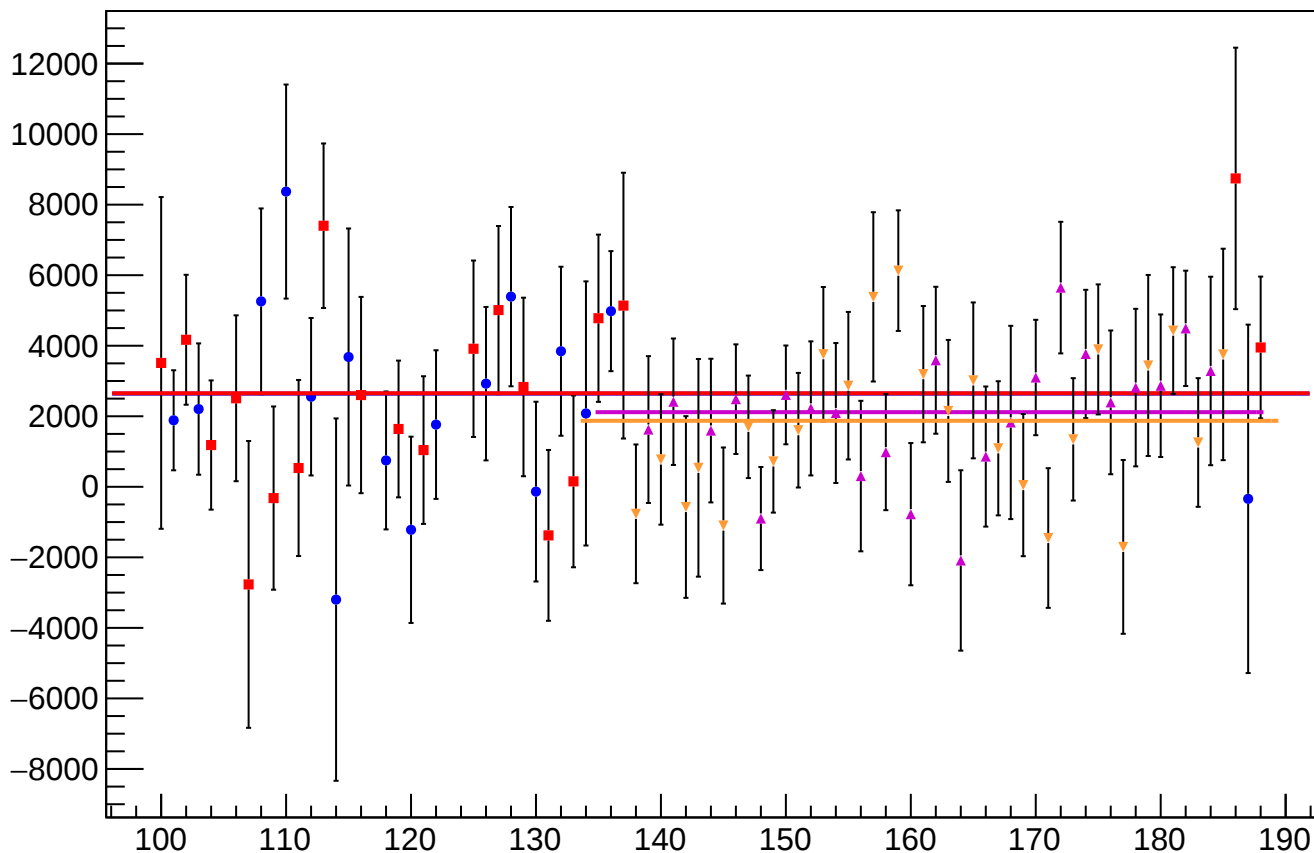
Right: 1223.226 $\pm$ 0.229 χ^2 /NDF: 1303047.1/36

In: 1308.960 $\pm$ 0.193 χ^2 /NDF: 2104149.6/39

Out: 1357.325 $\pm$ 0.190 χ^2 /NDF: 1929647.2/44

All: 1333.485 $\pm$ 0.135 χ^2 /NDF: 4065652.3/84

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2642.308+/-564.868 χ^2/NDF : 14.4/16

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

Right Out: 2651.808+/-542.738 χ^2/NDF : 19.6/19

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

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

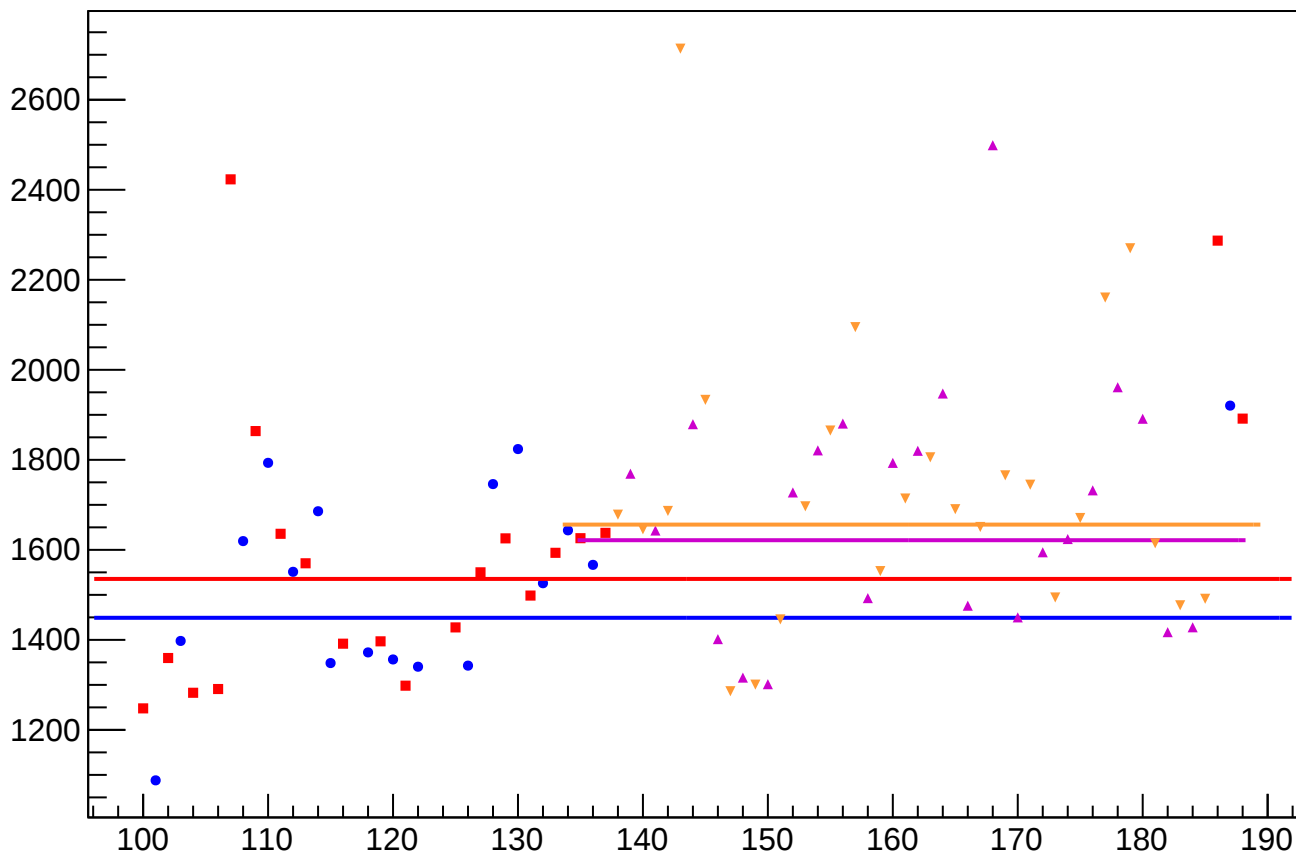
Right: 2647.248+/-391.363 χ^2/NDF : 34.0/36

In: 2287.740+/-322.601 χ^2/NDF : 33.8/39

Out: 2138.816+/-317.611 χ^2/NDF : 47.1/44

All: 2212.117+/-226.329 χ^2/NDF : 81.0/84

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1449.051+/-0.399 χ^2/NDF : 296745.1/16

Left Out: 1656.119+/-0.277 χ^2/NDF : 910573.4/24

Right Out: 1535.404+/-0.384 χ^2/NDF : 415068.2/19

Left In: 1621.417+/-0.278 χ^2/NDF : 775310.1/22

Left: 1638.826+/-0.196 χ^2/NDF : 1693706.9/47

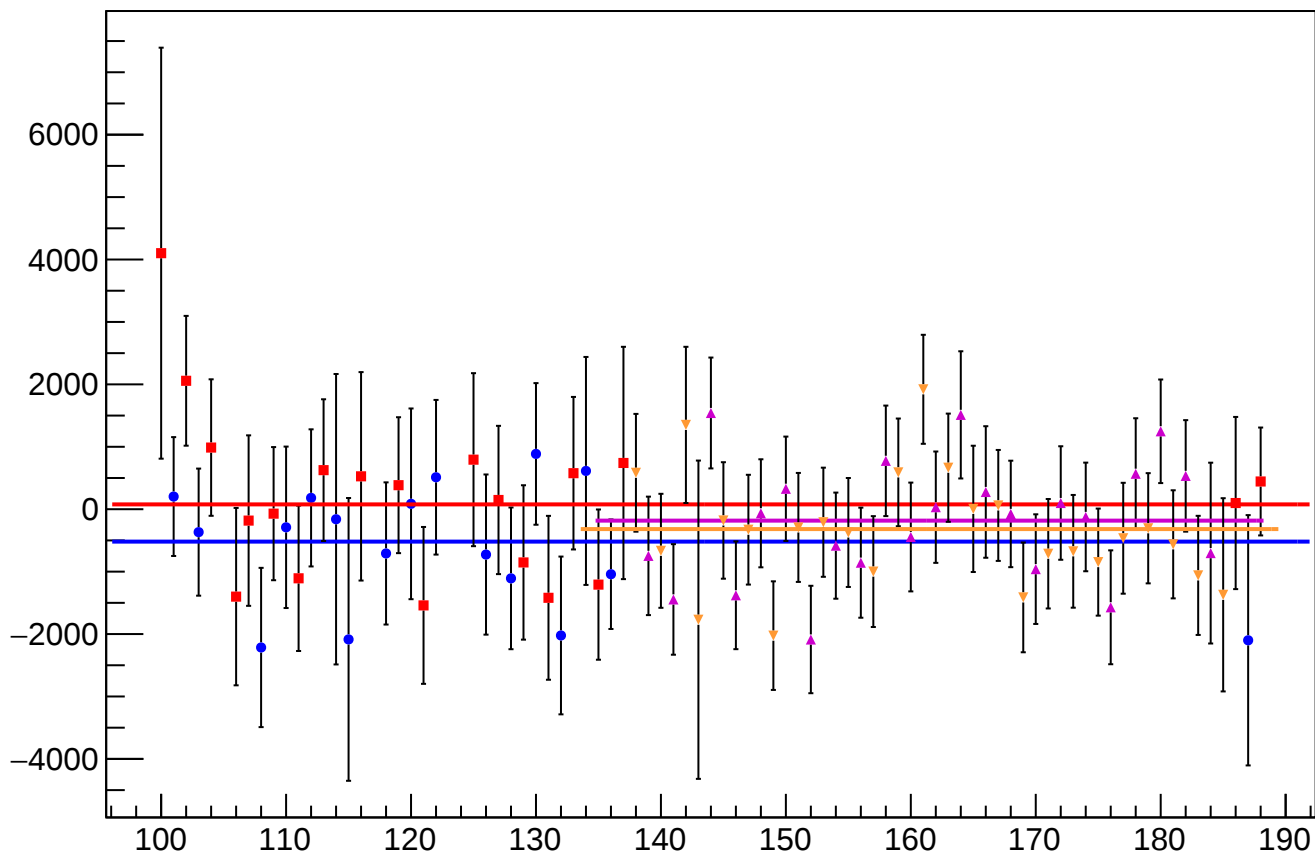
Right: 1493.952+/-0.277 χ^2/NDF : 736116.9/36

In: 1565.197+/-0.228 χ^2/NDF : 1197539.7/39

Out: 1614.779+/-0.225 χ^2/NDF : 1390698.8/44

All: 1590.375+/-0.160 χ^2/NDF : 2612228.5/84

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -519.094 ± 301.860 $\chi^2/\text{NDF}: 8.8/16$

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

Right Out: 77.234 ± 276.380 $\chi^2/\text{NDF}: 13.8/19$

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

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

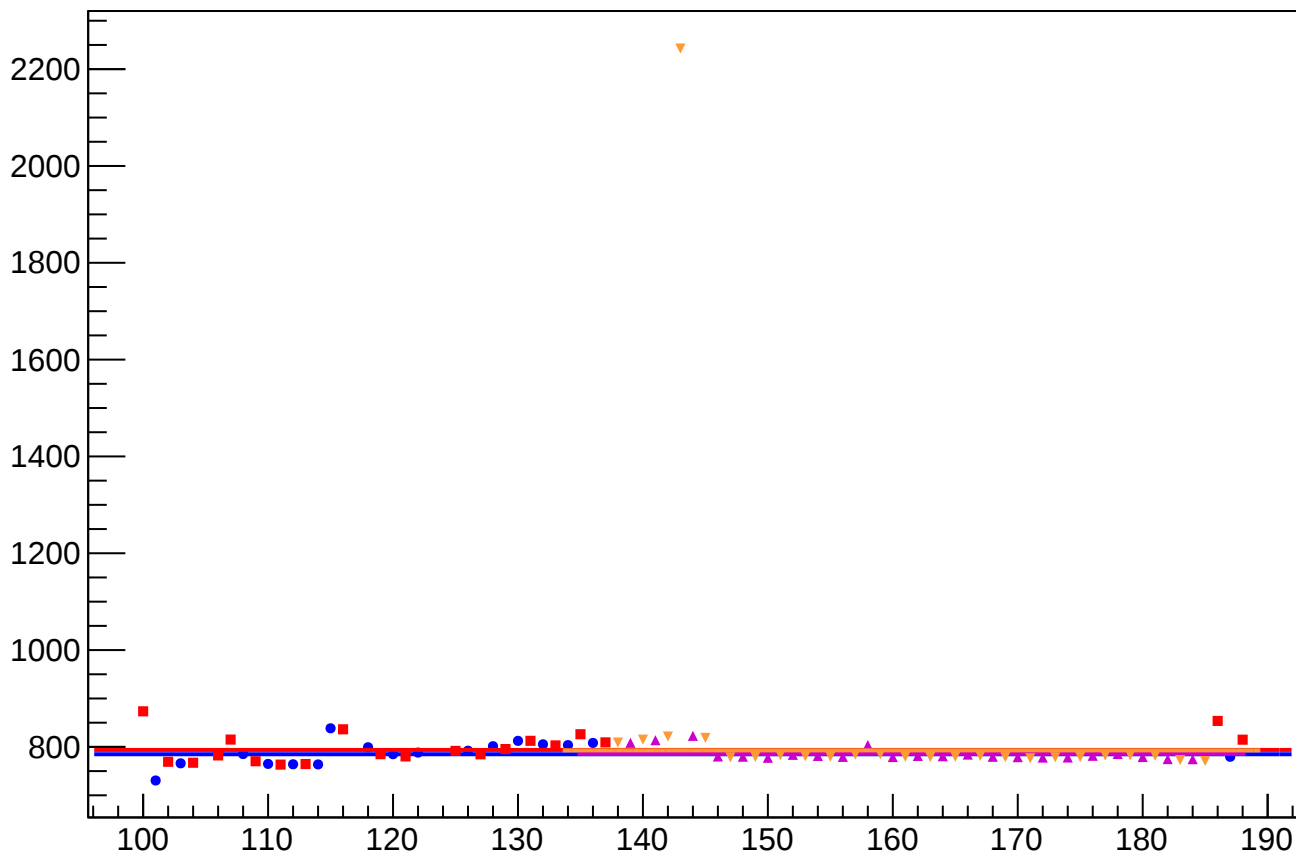
Right: -194.704 ± 203.844 $\chi^2/\text{NDF}: 24.7/36$

In: -276.724 ± 159.469 $\chi^2/\text{NDF}: 35.8/39$

Out: -194.989 ± 154.333 $\chi^2/\text{NDF}: 35.6/44$

All: -234.519 ± 110.901 $\chi^2/\text{NDF}: 71.5/84$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 784.801 $\pm$ 0.213 χ^2 /NDF: 13828.2/16

Left Out: 792.791 $\pm$ 0.132 χ^2 /NDF: 659510.7/24

Right Out: 793.729 $\pm$ 0.195 χ^2 /NDF: 16588.3/19

Left In: 785.592 $\pm$ 0.133 χ^2 /NDF: 9373.7/22

Left: 789.226 $\pm$ 0.093 χ^2 /NDF: 670367.6/47

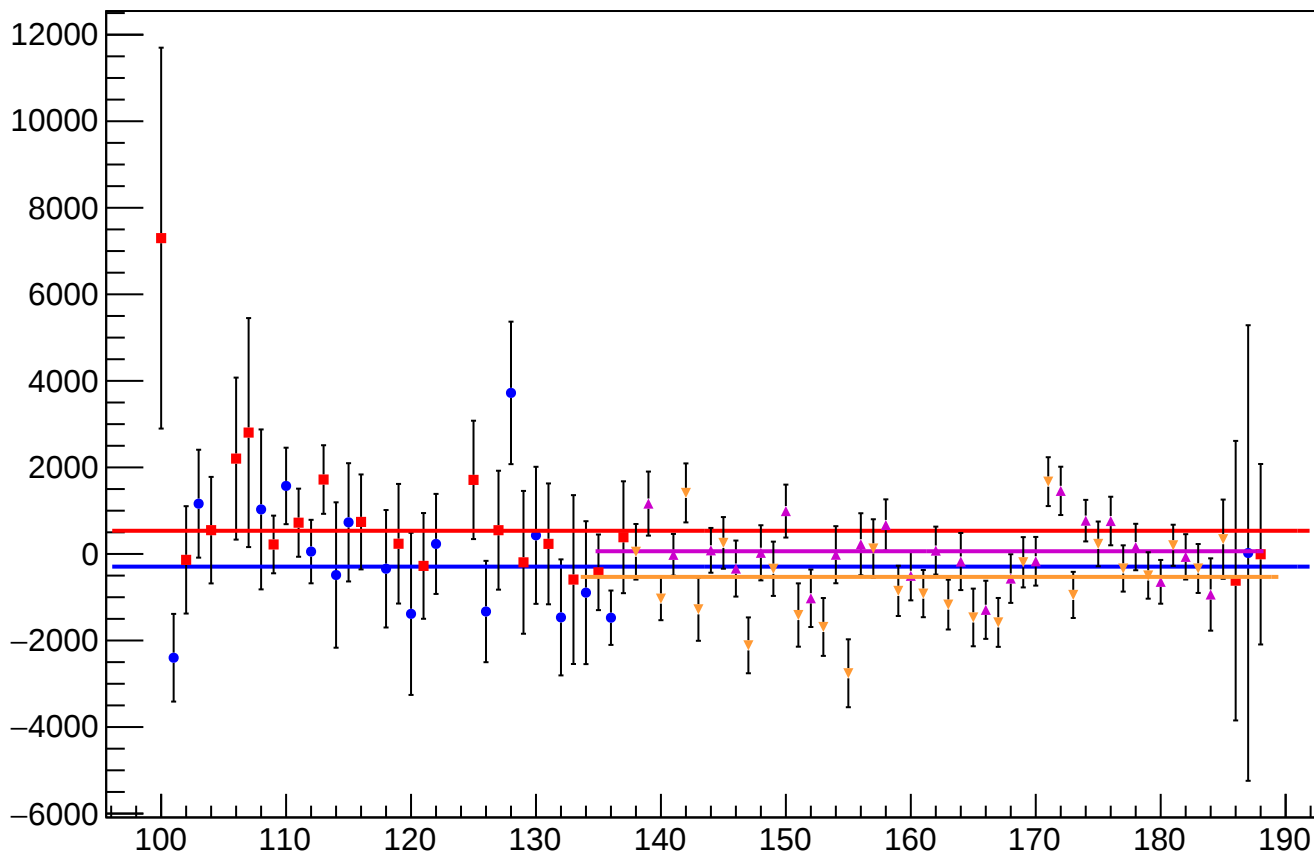
Right: 789.657 $\pm$ 0.144 χ^2 /NDF: 31368.3/36

In: 785.371 $\pm$ 0.113 χ^2 /NDF: 23211.8/39

Out: 793.084 $\pm$ 0.109 χ^2 /NDF: 676114.8/44

All: 789.354 $\pm$ 0.078 χ^2 /NDF: 701742.2/84

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -292.861 ± 282.781 $\chi^2/\text{NDF}: 23.4/16$

Left Out: -530.101 ± 119.543 $\chi^2/\text{NDF}: 61.6/24$

Right Out: 535.639 ± 270.055 $\chi^2/\text{NDF}: 10.0/19$

Left In: 62.768 ± 122.045 $\chi^2/\text{NDF}: 28.8/22$

Left: -239.807 ± 85.401 $\chi^2/\text{NDF}: 102.5/47$

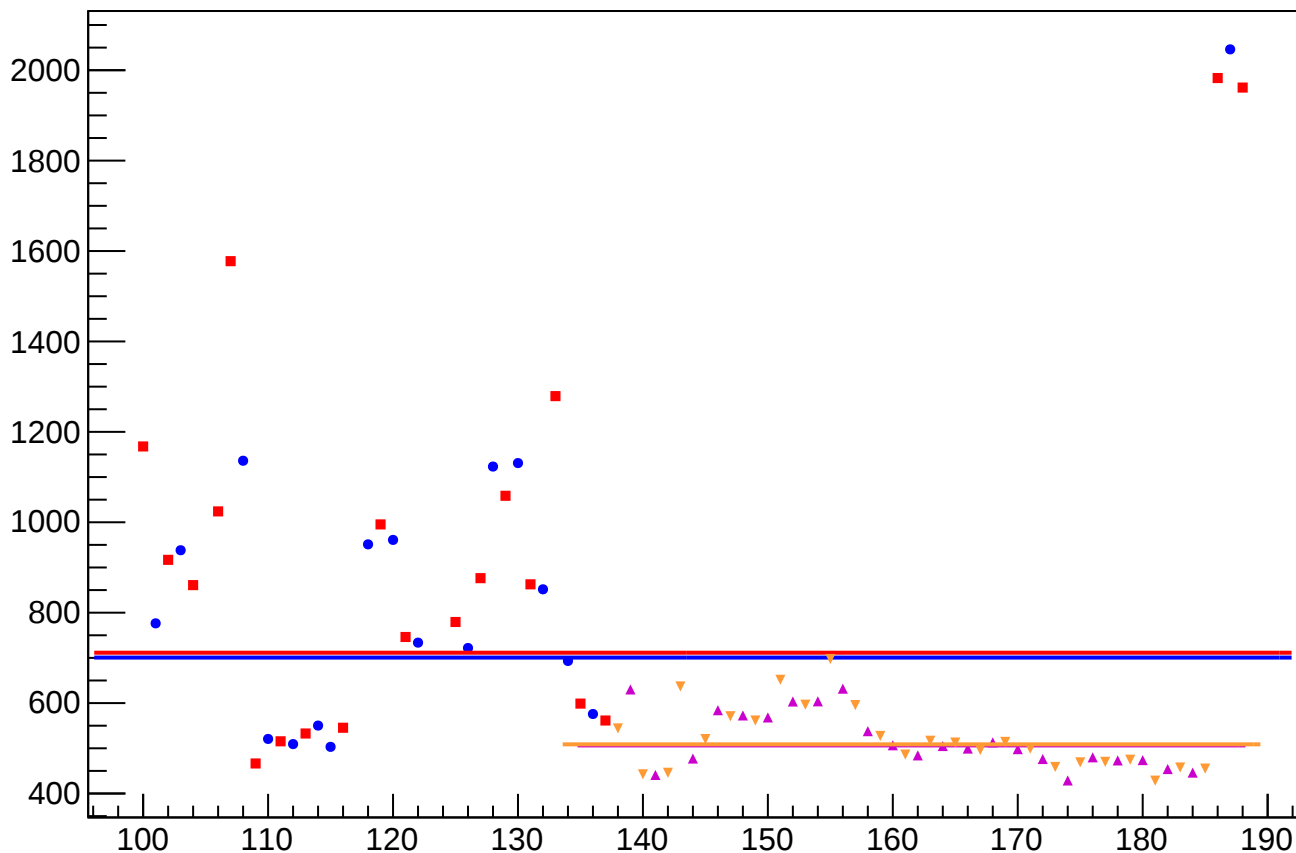
Right: 140.450 ± 195.302 $\chi^2/\text{NDF}: 37.8/36$

In: 6.926 ± 112.055 $\chi^2/\text{NDF}: 53.5/39$

Out: -355.486 ± 109.312 $\chi^2/\text{NDF}: 84.6/44$

All: -178.769 ± 78.247 $\chi^2/\text{NDF}: 143.4/84$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 700.697 $\pm$ 0.200 χ^2 /NDF: 1094999.2/16

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

Right Out: 711.459 $\pm$ 0.191 χ^2 /NDF: 2407137.5/19

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

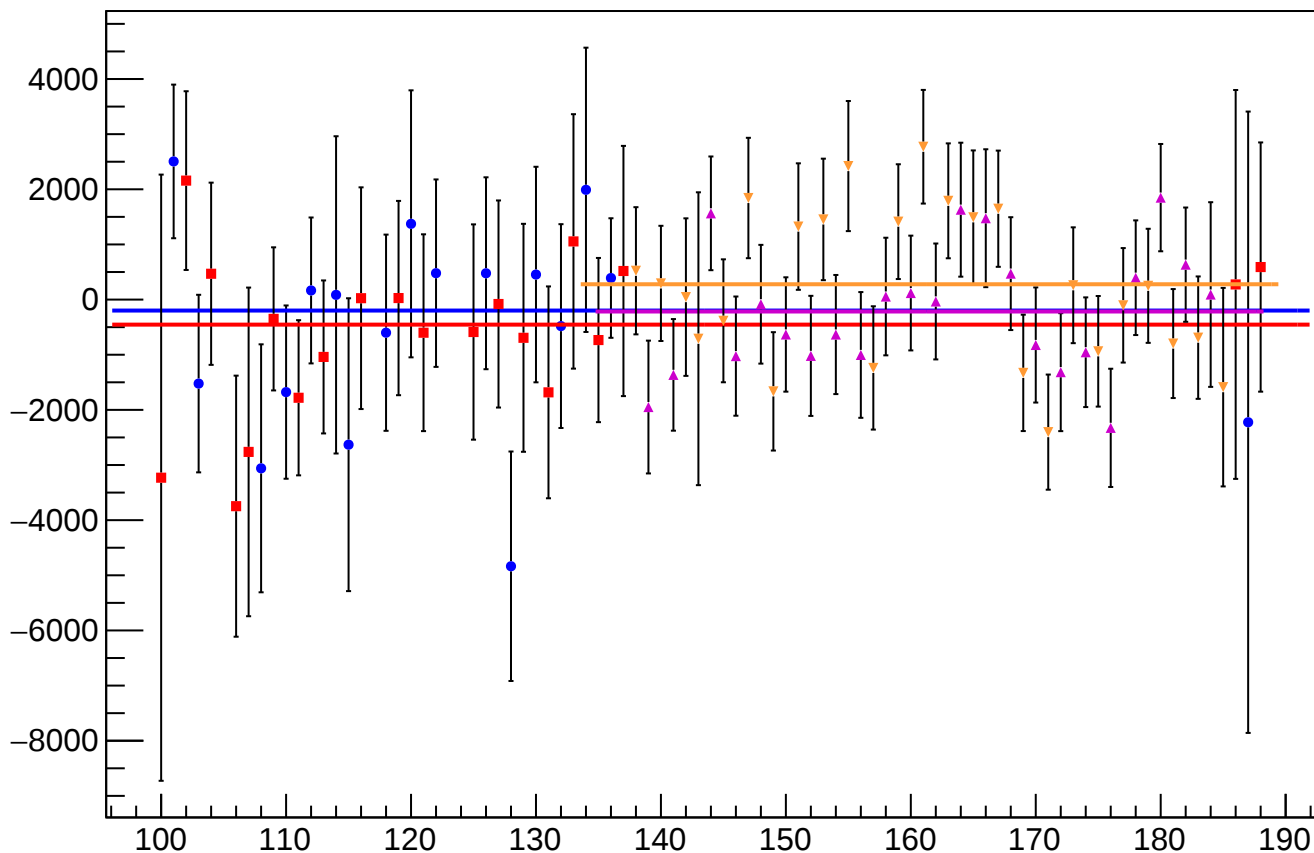
Right: 706.326 $\pm$ 0.138 χ^2 /NDF: 3503651.6/36

In: 536.892 $\pm$ 0.079 χ^2 /NDF: 2327394.5/39

Out: 541.982 $\pm$ 0.077 χ^2 /NDF: 3898406.0/44

All: 539.500 $\pm$ 0.055 χ^2 /NDF: 6227914.6/84

asym_us_dd_mean vs Slug, Sign Corrected



Right In: -198.869+/-433.566 χ^2/NDF : 14.9/16

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

Right Out: -454.116+/-417.604 χ^2/NDF : 8.3/19

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

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

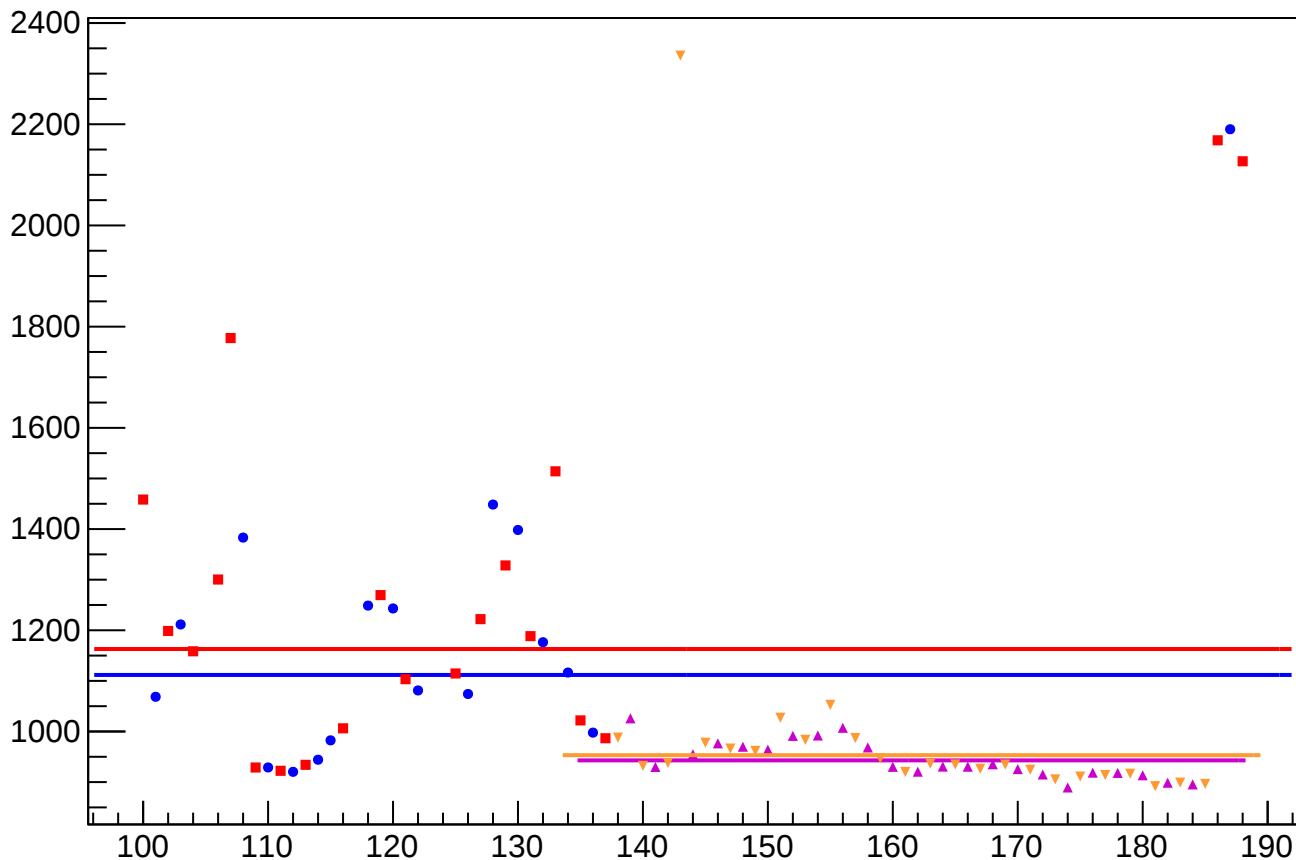
Right: -331.277+/-300.775 χ^2/NDF : 23.4/36

In: -212.445+/-200.129 χ^2/NDF : 39.3/39

Out: 114.967+/-197.109 χ^2/NDF : 49.1/44

All: -46.250+/-140.432 χ^2/NDF : 89.7/84

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1111.737 $\pm$ 0.307 χ^2/NDF : 331759.5/16

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

Right Out: 1162.984 $\pm$ 0.295 χ^2/NDF : 917400.1/19

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

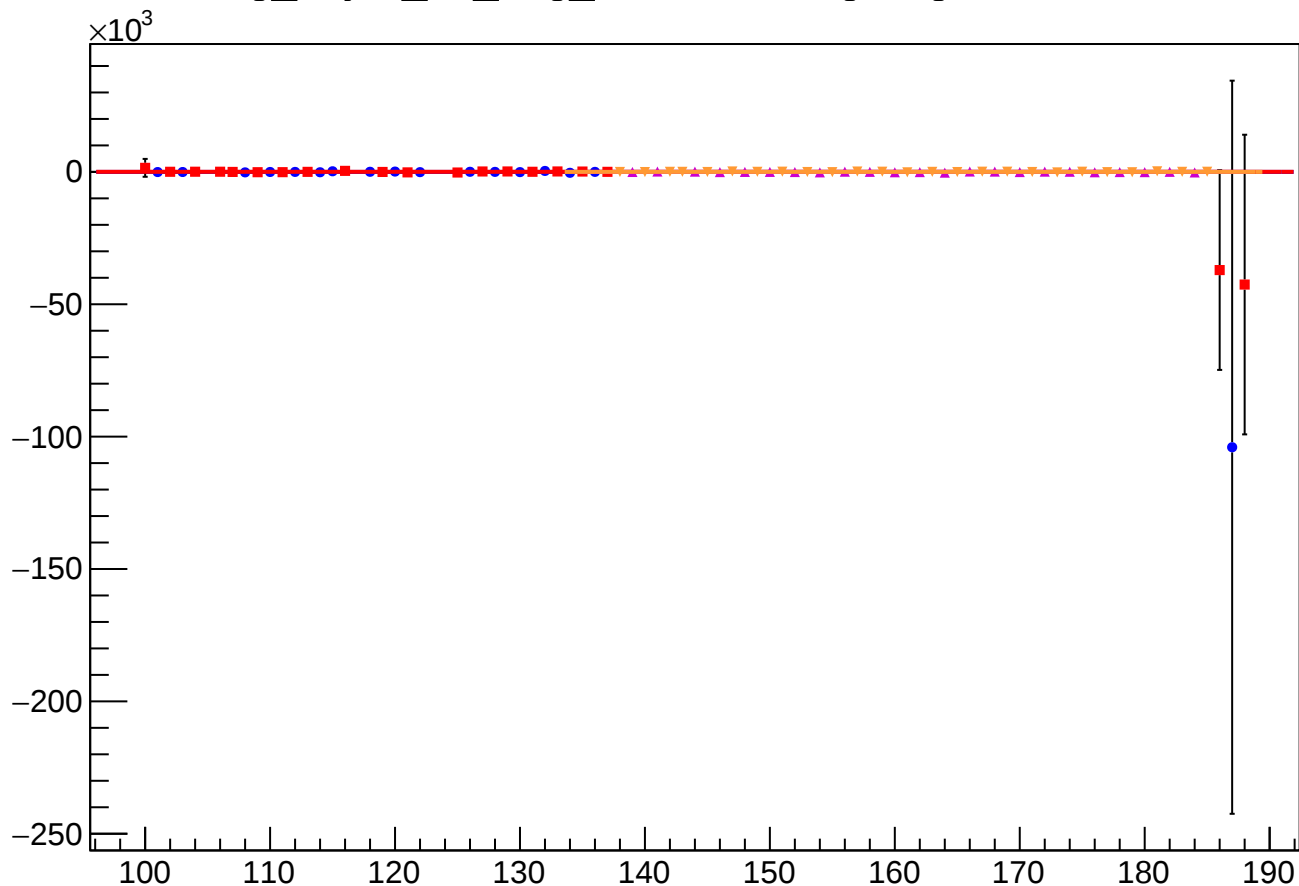
Right: 1138.321 $\pm$ 0.213 χ^2/NDF : 1263654.7/36

In: 978.894 $\pm$ 0.142 χ^2/NDF : 618756.1/39

Out: 999.953 $\pm$ 0.139 χ^2/NDF : 1915869.0/44

All: 989.583 $\pm$ 0.099 χ^2/NDF : 2545866.0/84

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.556+/-30.032 χ^2 /NDF: 16.5/16

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

Right Out: 31.718+/-30.492 χ^2 /NDF: 18.3/19

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

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

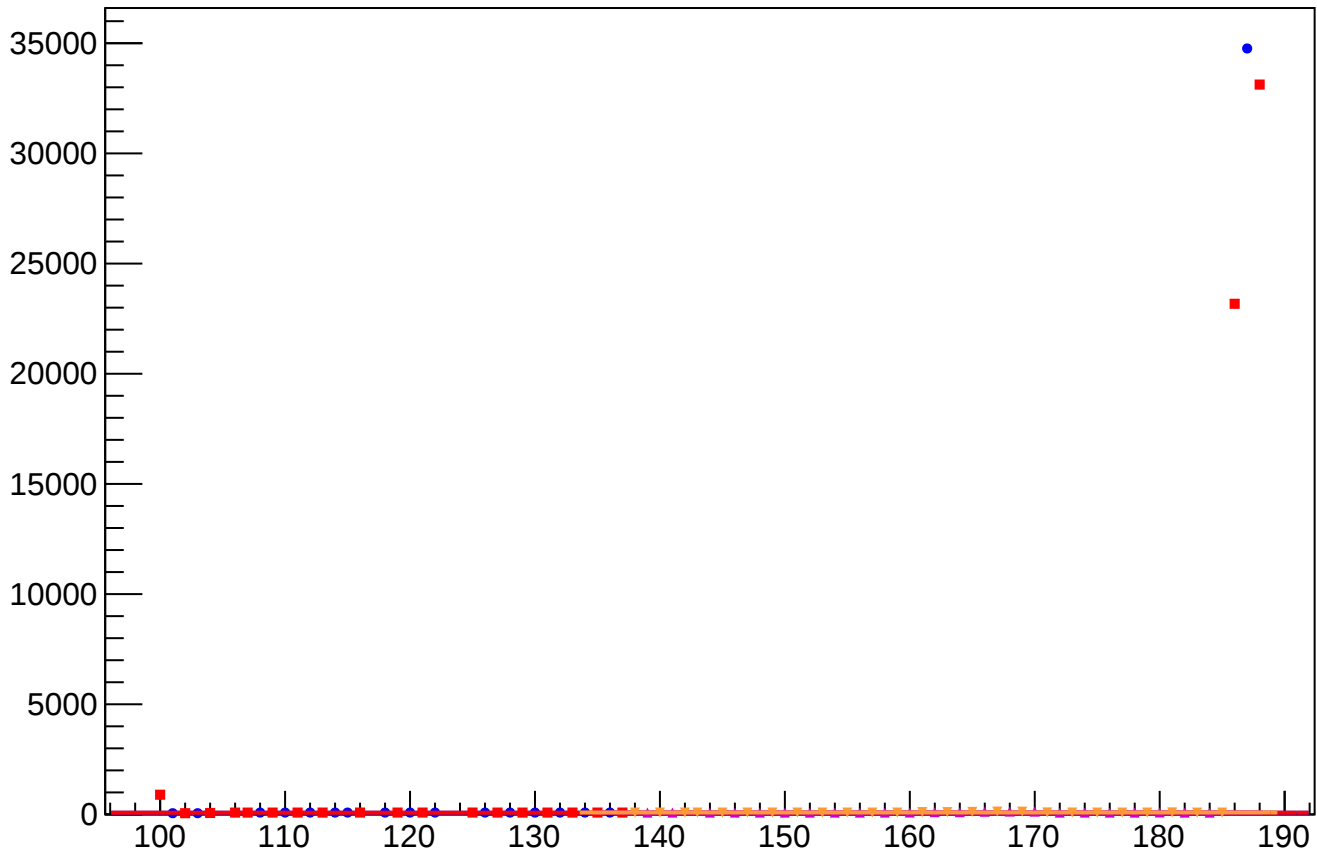
Right: 7.722+/-21.397 χ^2 /NDF: 36.1/36

In: -20.419+/-17.527 χ^2 /NDF:39.1/39

Out: 13.272+/-17.272 χ^2 /NDF:41.4/44

All: -3.327+/-12.302 χ^2 /NDF: 82.3/84

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.055+/-0.021 χ^2/NDF : 540635.7/16

Left Out: 89.483+/-0.015 χ^2/NDF : 470330.2/24

Right Out: 79.396+/-0.022 χ^2/NDF : 1828858.9/19

Left In: 89.596+/-0.015 χ^2/NDF : 508511.1/22

Left: 89.538+/-0.011 χ^2/NDF : 978869.2/47

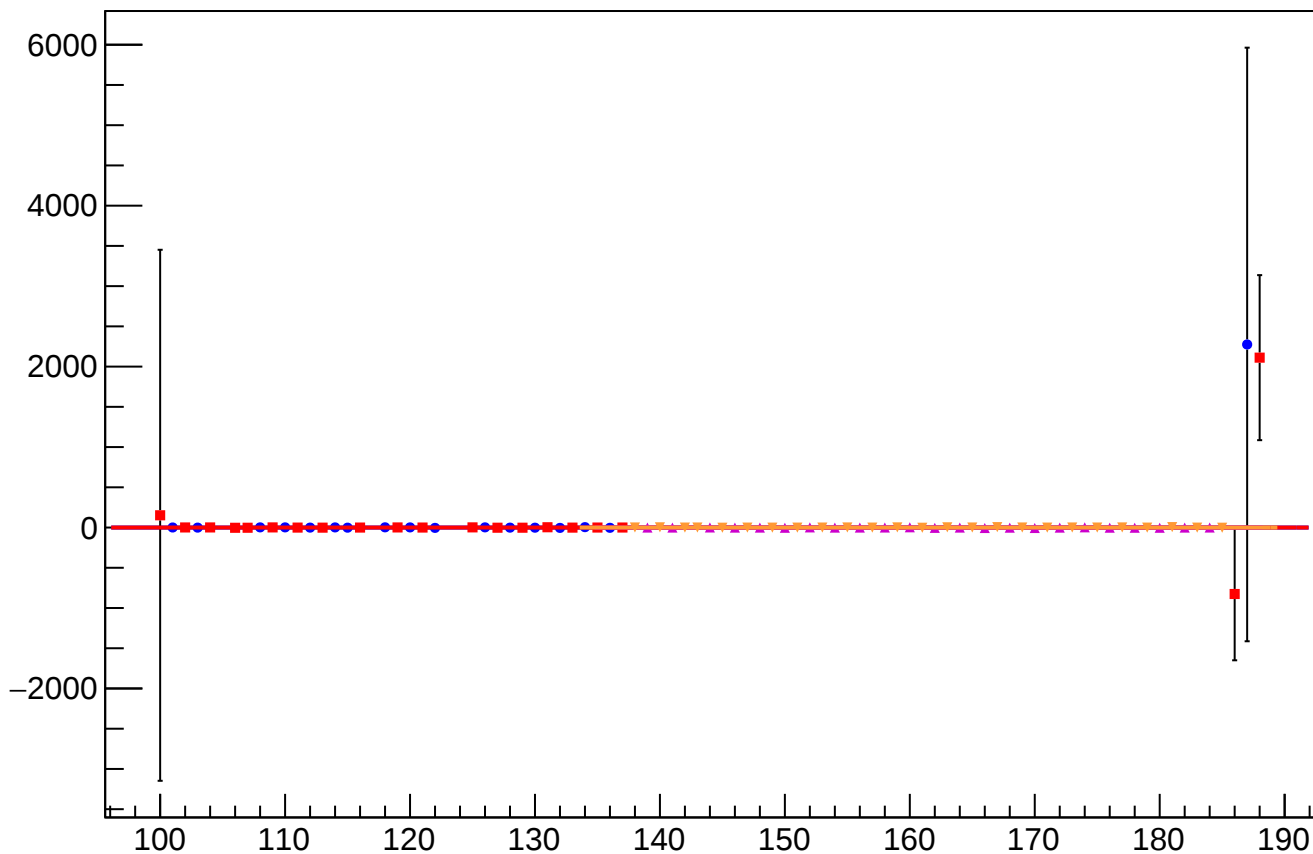
Right: 77.700+/-0.015 χ^2/NDF : 2381680.8/36

In: 84.984+/-0.012 χ^2/NDF : 1317230.1/39

Out: 86.246+/-0.012 χ^2/NDF : 2447845.0/44

All: 85.624+/-0.009 χ^2/NDF : 3770342.5/84

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 $\chi^2/\text{NDF}: 21.3/16$

Left Out: 0.134 ± 0.367 $\chi^2/\text{NDF}: 21.3/24$

Right Out: 0.039 ± 0.525 $\chi^2/\text{NDF}: 15.2/19$

Left In: -0.519 ± 0.387 $\chi^2/\text{NDF}: 26.3/22$

Left: -0.175 ± 0.266 $\chi^2/\text{NDF}: 49.2/47$

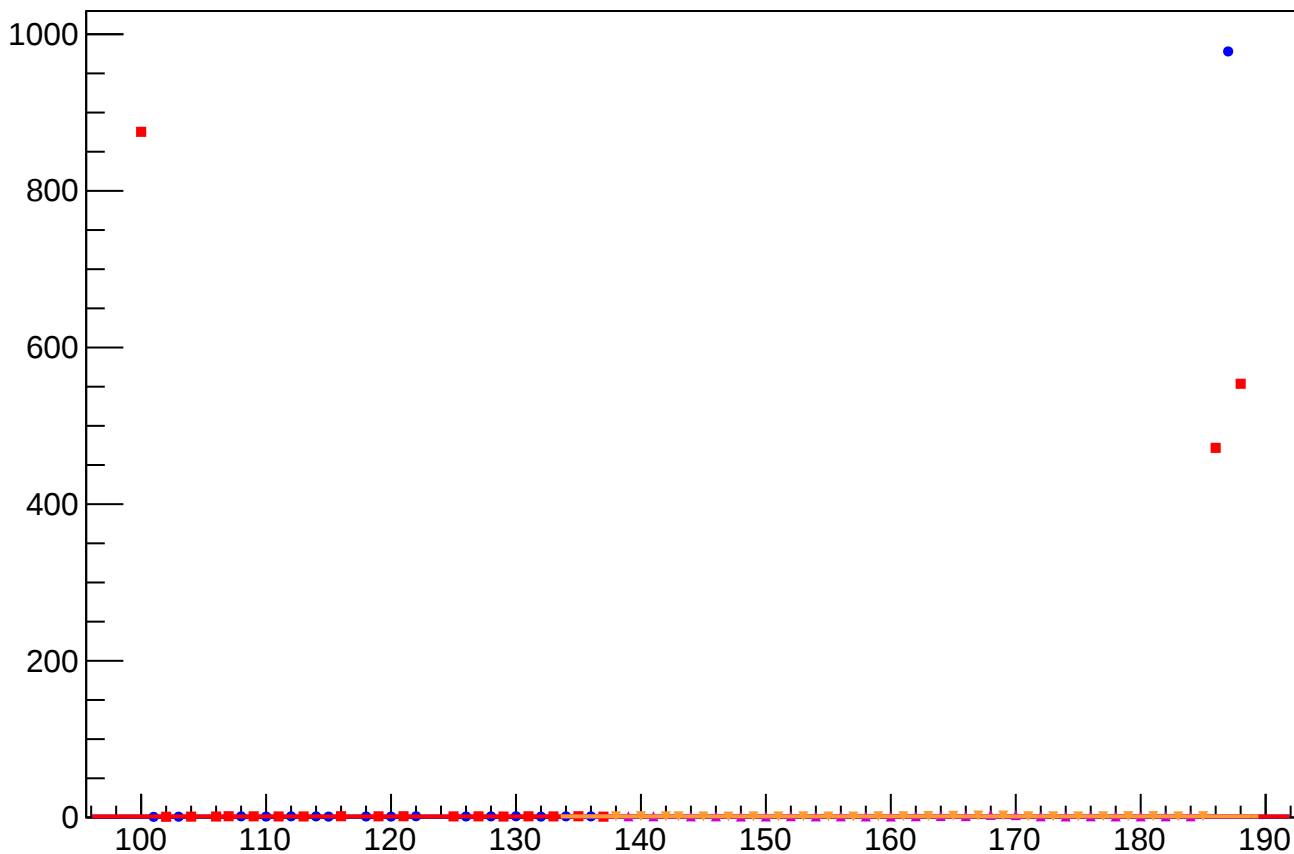
Right: -0.133 ± 0.363 $\chi^2/\text{NDF}: 36.7/36$

In: -0.433 ± 0.306 $\chi^2/\text{NDF}: 47.8/39$

Out: 0.103 ± 0.301 $\chi^2/\text{NDF}: 36.5/44$

All: -0.160 ± 0.215 $\chi^2/\text{NDF}: 85.9/84$

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.152+/-0.000 χ^2/NDF : 646539.6/16

Left Out: 1.404+/-0.000 χ^2/NDF : 992478.0/24

Right Out: 1.259+/-0.000 χ^2/NDF : 1722385.5/19

Left In: 1.453+/-0.000 χ^2/NDF : 995852.2/22

Left: 1.427+/-0.000 χ^2/NDF : 2005229.5/47

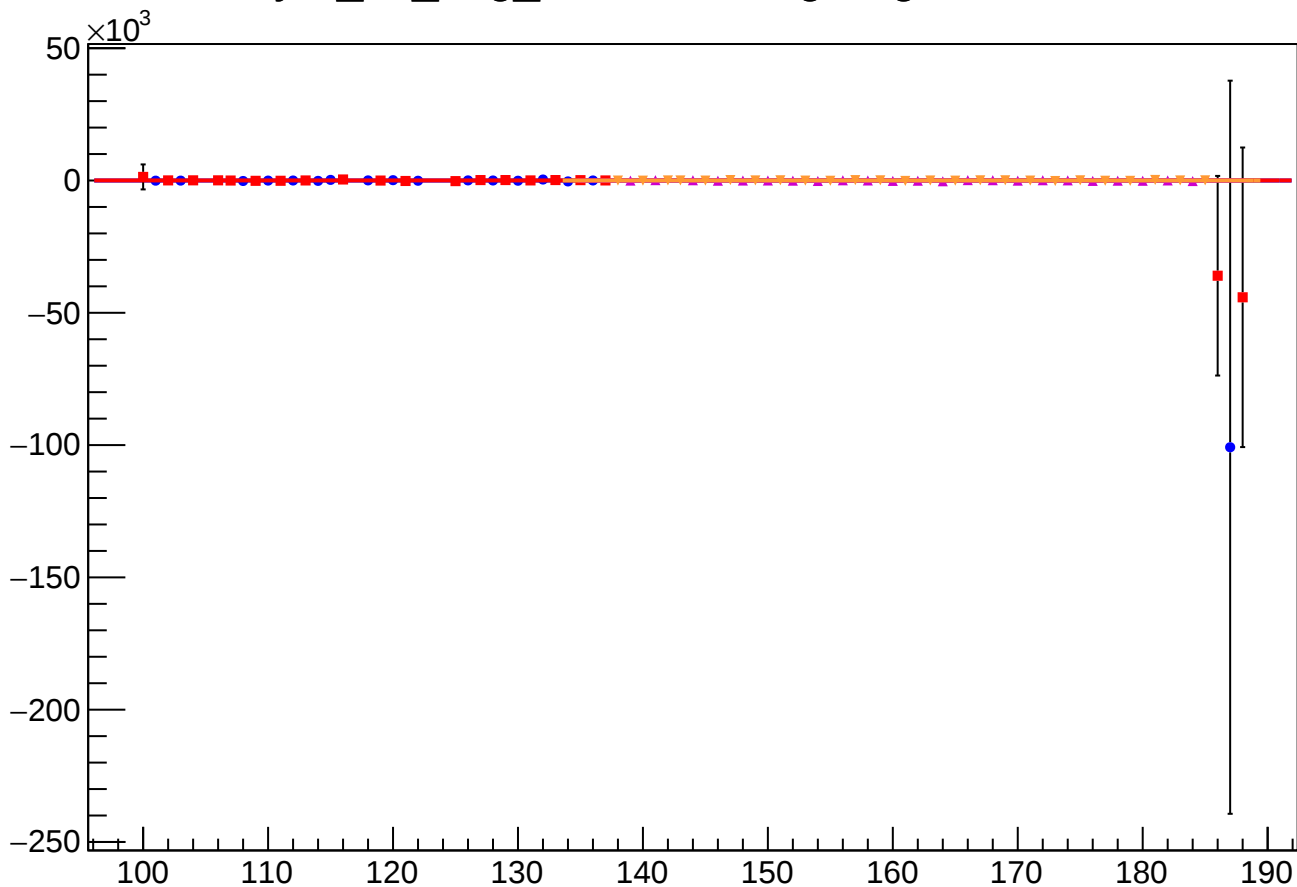
Right: 1.203+/-0.000 χ^2/NDF : 2412558.4/36

In: 1.341+/-0.000 χ^2/NDF : 2094095.1/39

Out: 1.357+/-0.000 χ^2/NDF : 2816991.6/44

All: 1.349+/-0.000 χ^2/NDF : 4913766.0/84

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.492 ± 30.040 χ^2/NDF : 16.8/16

Left Out: 4.417 ± 20.966 χ^2/NDF : 22.1/24

Right Out: 31.997 ± 30.500 χ^2/NDF : 18.3/19

Left In: -22.446 ± 21.591 χ^2/NDF : 22.3/22

Left: -8.619 ± 15.041 χ^2/NDF : 45.3/47

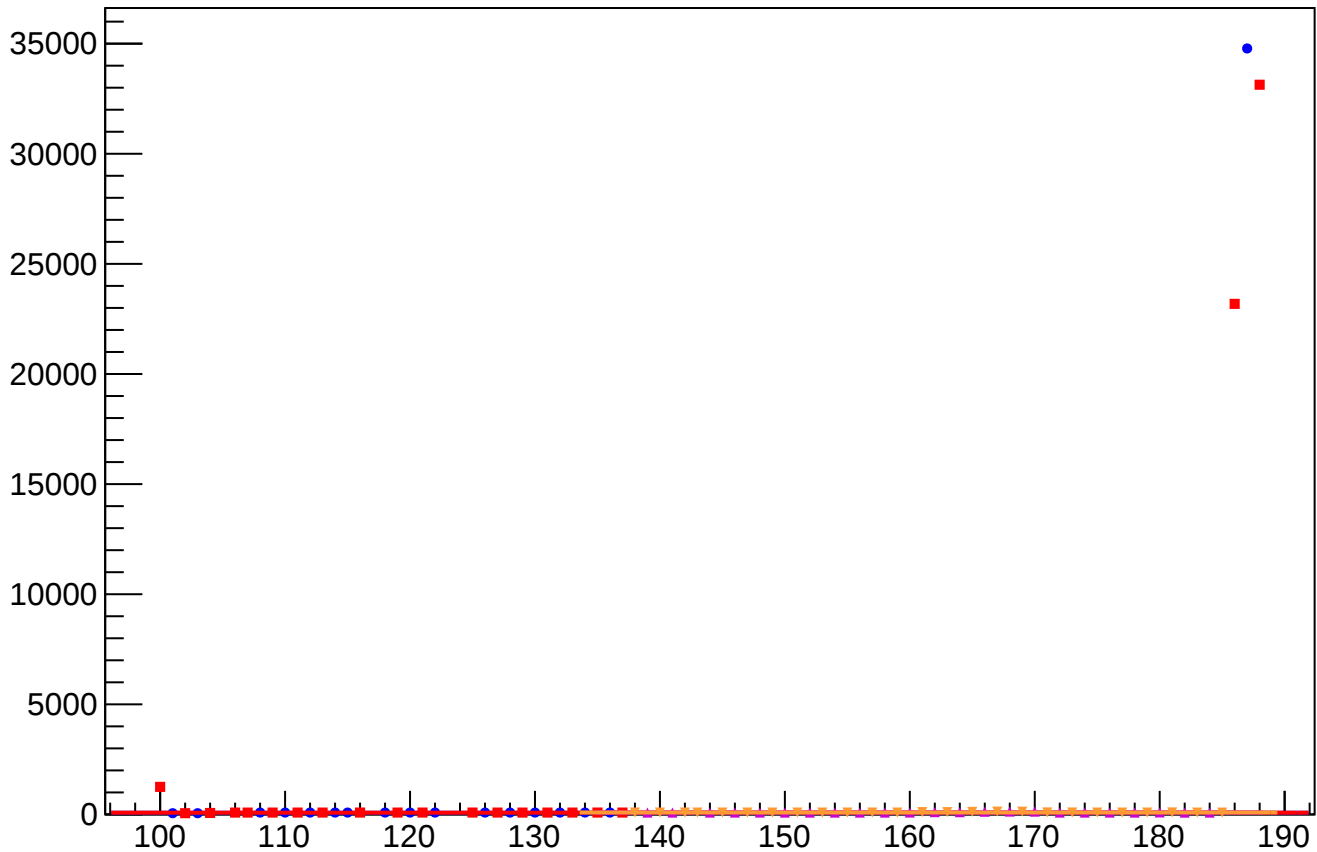
Right: 8.399 ± 21.402 χ^2/NDF : 36.2/36

In: -19.736 ± 17.532 χ^2/NDF : 39.1/39

Out: 13.267 ± 17.277 χ^2/NDF : 41.0/44

All: -2.993 ± 12.306 χ^2/NDF : 81.9/84

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.075+/-0.021 χ^2/NDF : 540667.5/16

Left Out: 89.510+/-0.015 χ^2/NDF : 471081.1/24

Right Out: 79.399+/-0.022 χ^2/NDF : 1835389.3/19

Left In: 89.622+/-0.015 χ^2/NDF : 509391.8/22

Left: 89.564+/-0.011 χ^2/NDF : 980500.8/47

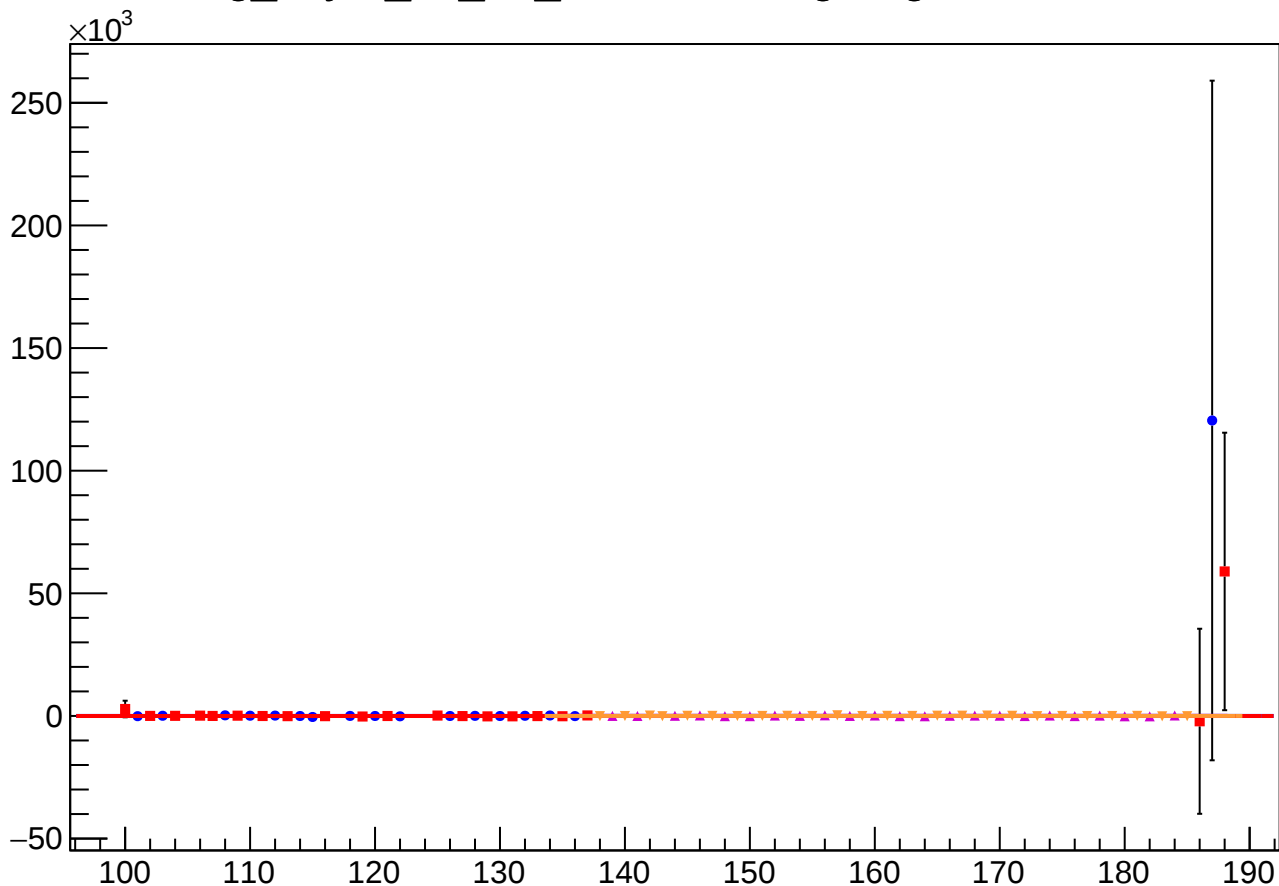
Right: 77.712+/-0.015 χ^2/NDF : 2388117.0/36

In: 85.008+/-0.012 χ^2/NDF : 1318265.1/39

Out: 86.265+/-0.012 χ^2/NDF : 2455721.3/44

All: 85.646+/-0.009 χ^2/NDF : 3779208.5/84

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.119 ± 30.012 $\chi^2/\text{NDF}: 14.8/16$

Left Out: 9.877 ± 20.965 $\chi^2/\text{NDF}: 18.5/24$

Right Out: -25.758 ± 30.473 $\chi^2/\text{NDF}: 13.9/19$

Left In: 43.424 ± 21.593 $\chi^2/\text{NDF}: 31.4/22$

Left: 26.155 ± 15.042 $\chi^2/\text{NDF}: 51.2/47$

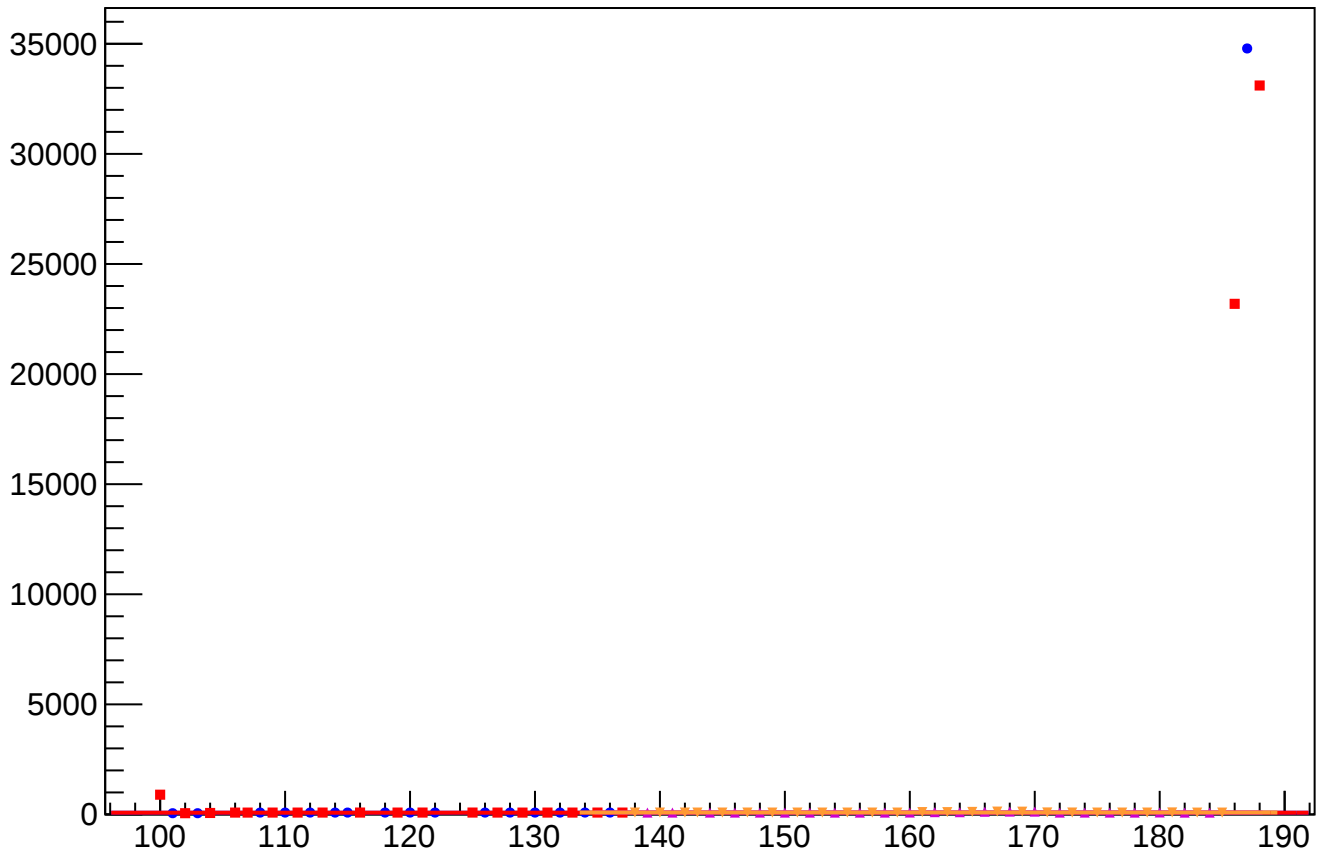
Right: -8.562 ± 21.383 $\chi^2/\text{NDF}: 29.3/36$

In: 31.382 ± 17.528 $\chi^2/\text{NDF}: 47.1/39$

Out: -1.571 ± 17.272 $\chi^2/\text{NDF}: 33.3/44$

All: 14.663 ± 12.303 $\chi^2/\text{NDF}: 82.3/84$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.006 $\pm$ 0.021 χ^2 /NDF: 540318.9/16

Left Out: 89.507 $\pm$ 0.015 χ^2 /NDF: 468988.9/24

Right Out: 79.347 $\pm$ 0.022 χ^2 /NDF: 1828891.3/19

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

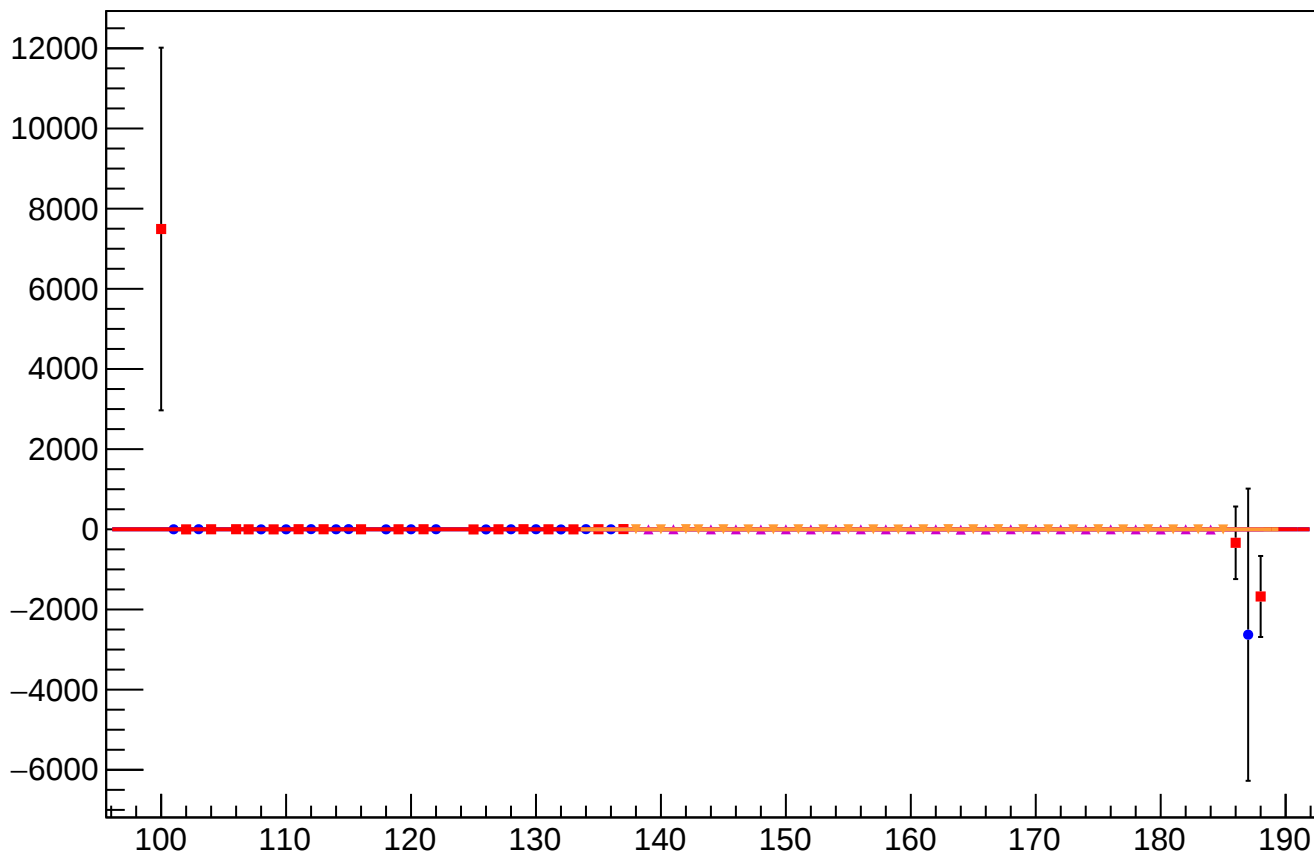
Right: 77.651 $\pm$ 0.015 χ^2 /NDF: 2381417.4/36

In: 84.981 $\pm$ 0.012 χ^2 /NDF: 1322840.3/39

Out: 86.243 $\pm$ 0.012 χ^2 /NDF: 2448784.1/44

All: 85.622 $\pm$ 0.009 χ^2 /NDF: 3776883.2/84

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 12.4/16$

Left Out: -0.517 ± 0.382 $\chi^2/\text{NDF}: 20.7/24$

Right Out: 0.347 ± 0.549 $\chi^2/\text{NDF}: 16.3/19$

Left In: -0.072 ± 0.390 $\chi^2/\text{NDF}: 20.4/22$

Left: -0.299 ± 0.273 $\chi^2/\text{NDF}: 41.7/47$

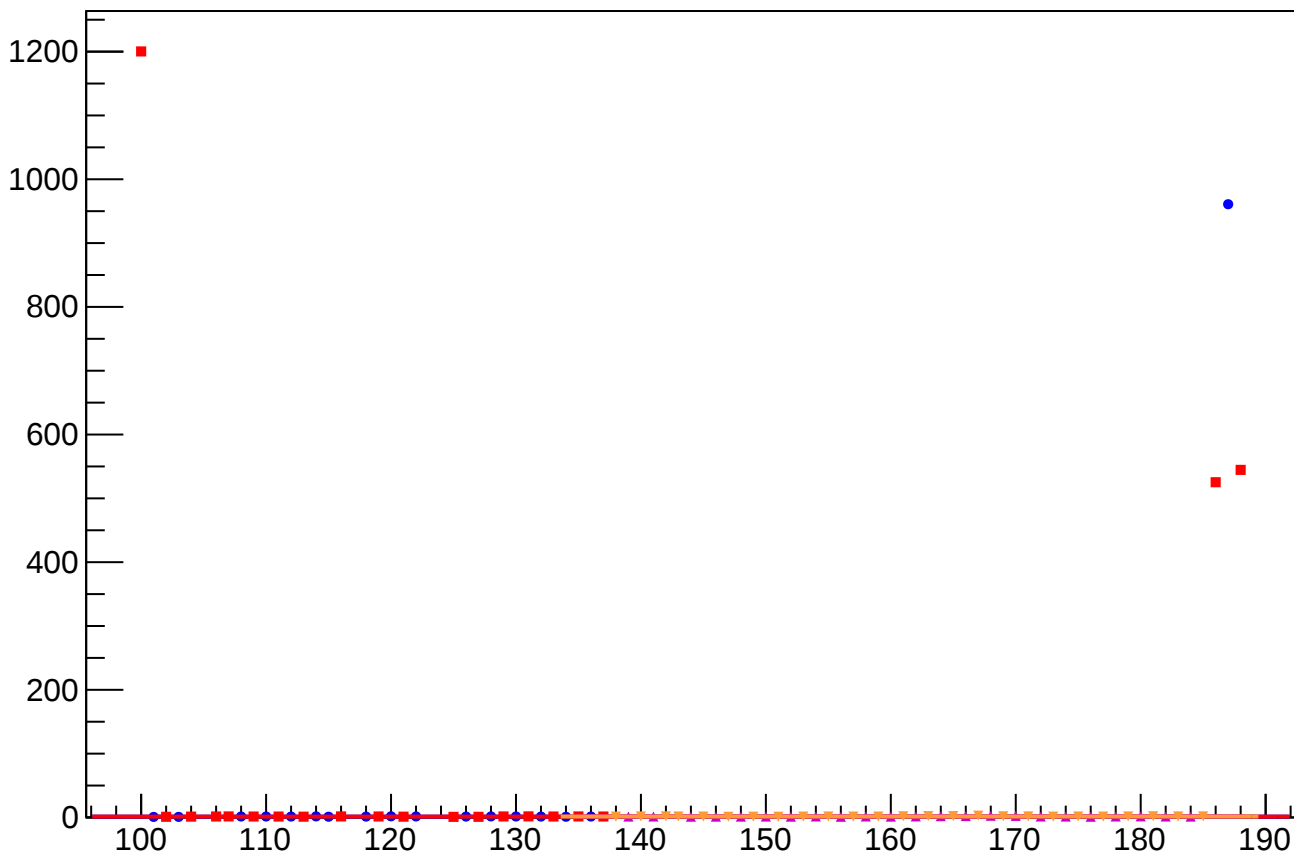
Right: 0.628 ± 0.382 $\chi^2/\text{NDF}: 29.3/36$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 35.0/39$

Out: -0.235 ± 0.314 $\chi^2/\text{NDF}: 38.7/44$

All: 0.015 ± 0.222 $\chi^2/\text{NDF}: 74.9/84$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.233+/-0.000 χ^2/NDF : 764395.1/16

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

Right Out: 1.316+/-0.000 χ^2/NDF : 1765512.2/19

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

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

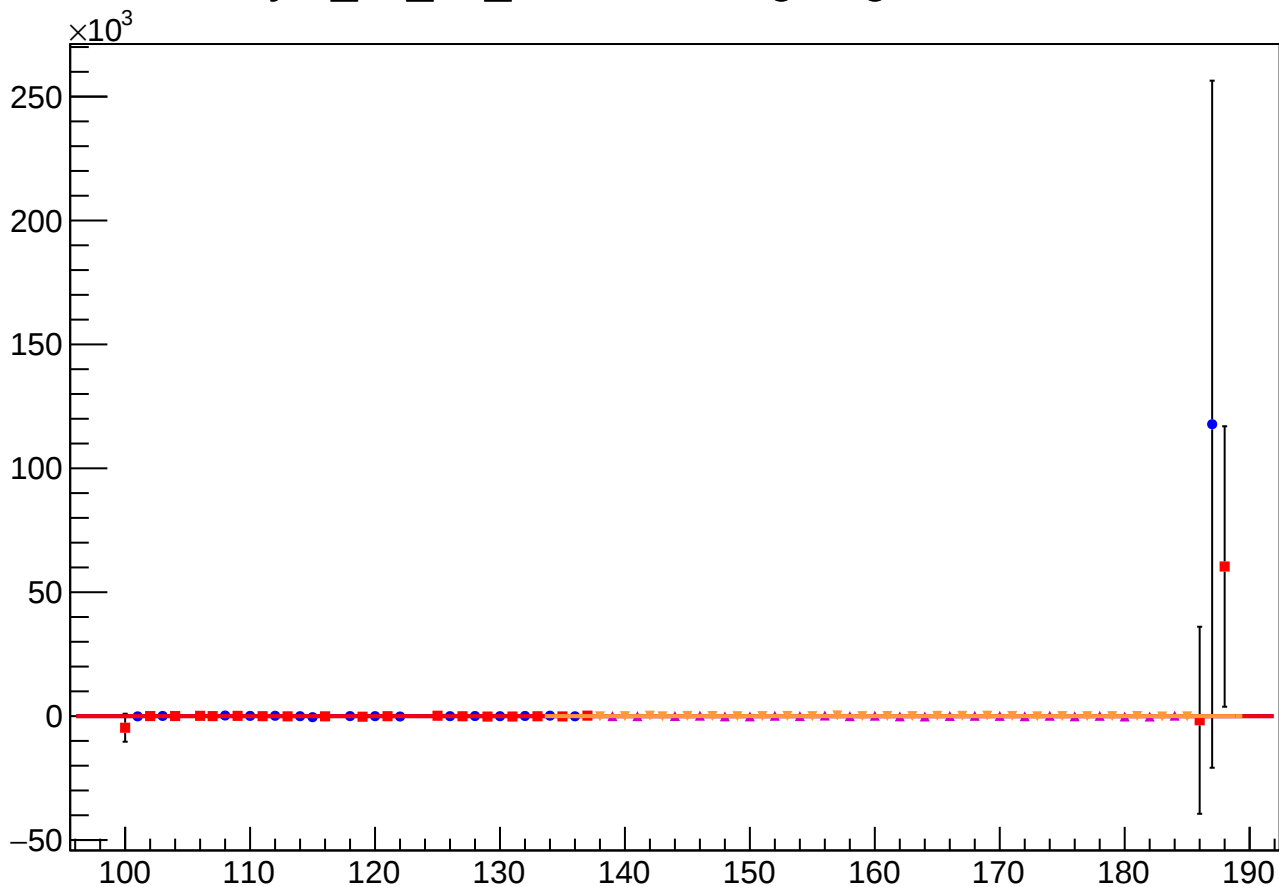
Right: 1.273+/-0.000 χ^2/NDF : 2553266.7/36

In: 1.381+/-0.000 χ^2/NDF : 2052049.1/39

Out: 1.421+/-0.000 χ^2/NDF : 3031333.9/44

All: 1.401+/-0.000 χ^2/NDF : 5099599.2/84

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.412 ± 30.020 $\chi^2/\text{NDF}: 14.6/16$

Left Out: 10.423 ± 20.971 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -26.367 ± 30.482 $\chi^2/\text{NDF}: 14.1/19$

Left In: 43.905 ± 21.600 $\chi^2/\text{NDF}: 31.1/22$

Left: 26.670 ± 15.046 $\chi^2/\text{NDF}: 50.7/47$

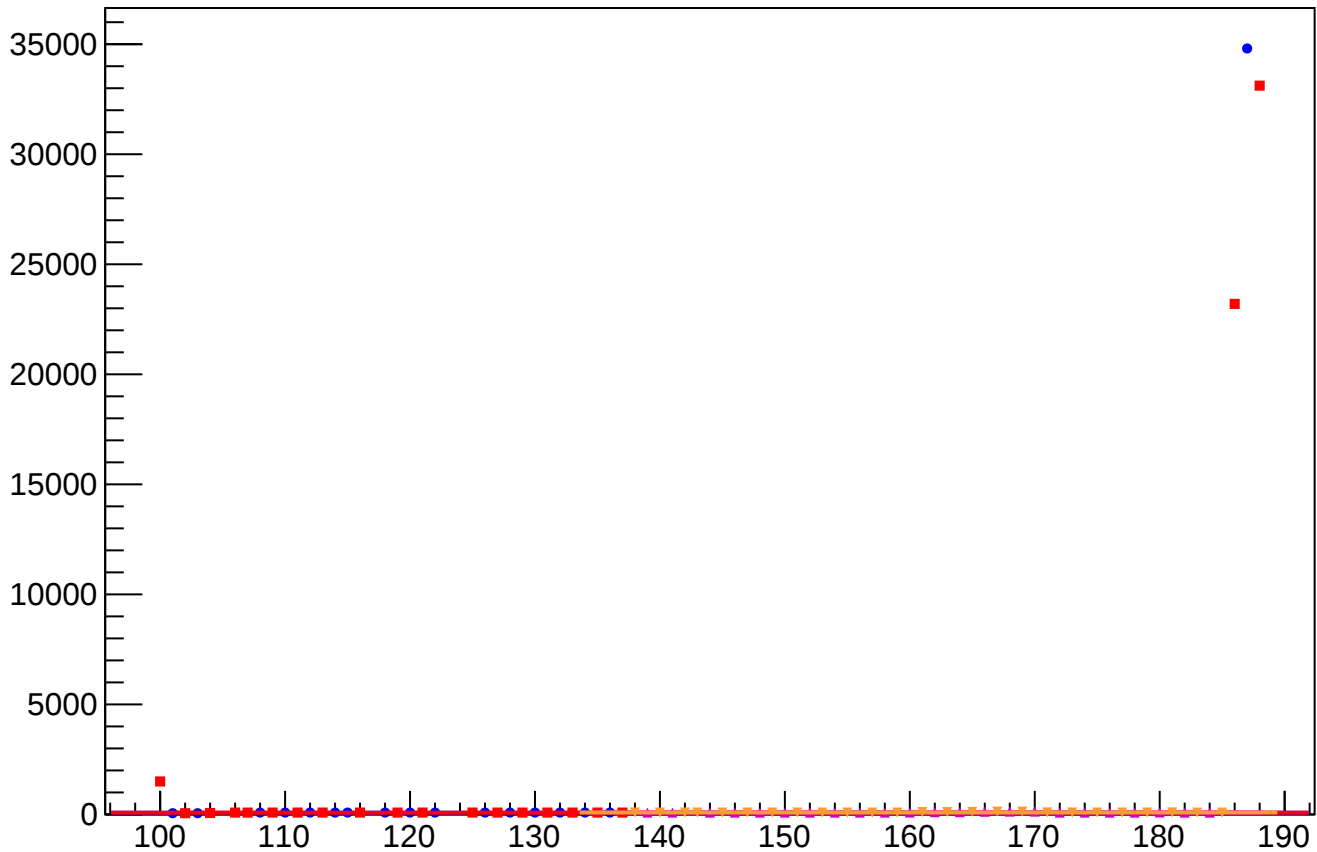
Right: -9.220 ± 21.389 $\chi^2/\text{NDF}: 29.4/36$

In: 31.457 ± 17.533 $\chi^2/\text{NDF}: 46.7/39$

Out: -1.396 ± 17.277 $\chi^2/\text{NDF}: 33.5/44$

All: 14.789 ± 12.306 $\chi^2/\text{NDF}: 82.0/84$

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.026 $\pm$ 0.021 χ^2 /NDF: 540362.4/16

Left Out: 89.535 $\pm$ 0.015 χ^2 /NDF: 469743.0/24

Right Out: 79.344 $\pm$ 0.022 χ^2 /NDF: 1838148.0/19

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

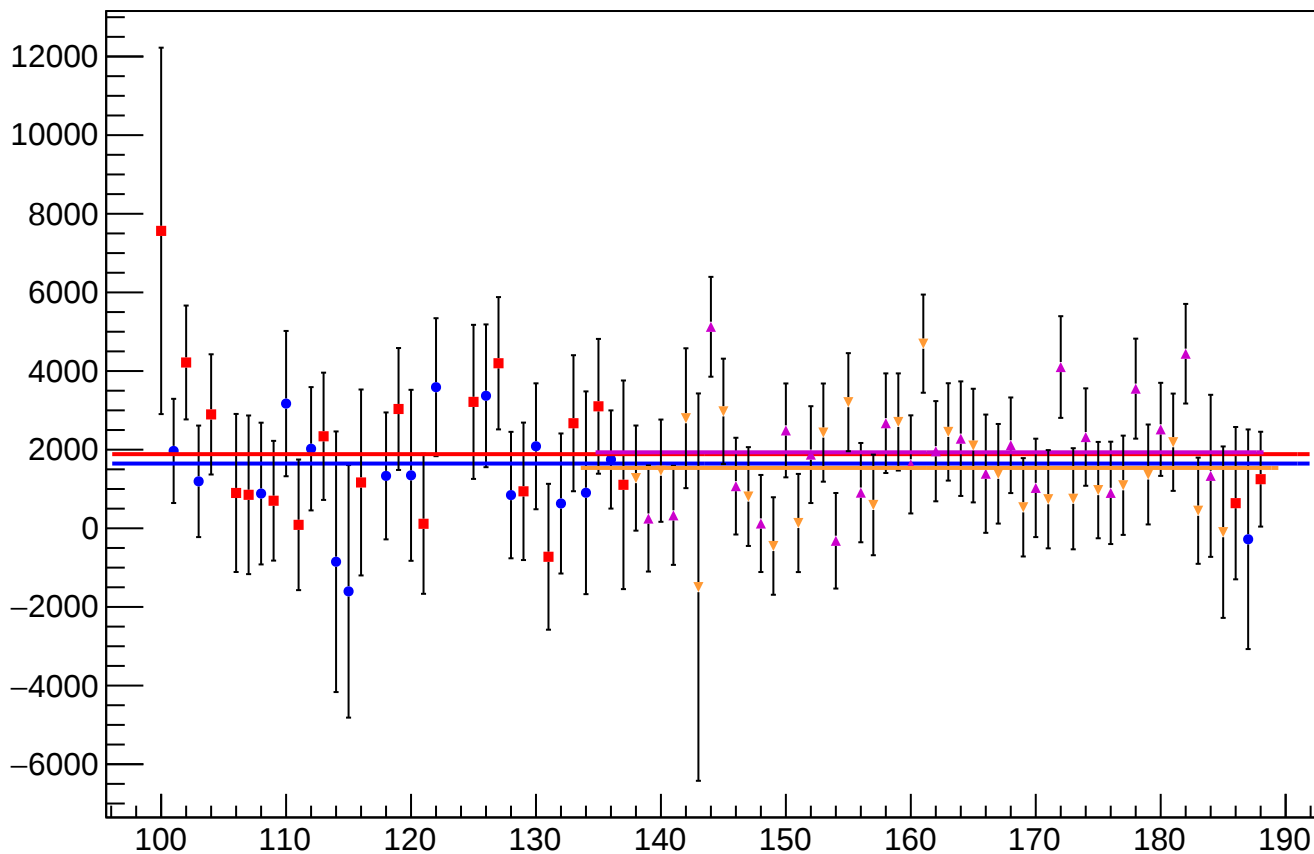
Right: 77.660 $\pm$ 0.015 χ^2 /NDF: 2390537.0/36

In: 85.006 $\pm$ 0.012 χ^2 /NDF: 1323786.5/39

Out: 86.261 $\pm$ 0.012 χ^2 /NDF: 2459615.4/44

All: 85.642 $\pm$ 0.009 χ^2 /NDF: 3788599.1/84

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1646.836 $\pm$ 426.502 χ^2 /NDF: 6.1/16

Left Out: 1535.246 $\pm$ 265.882 χ^2 /NDF:20.4/24

Right Out: 1886.199 $\pm$ 391.291 χ^2 /NDF: 14.6/19

Left In: 1933.000 $\pm$ 268.006 χ^2 /NDF:27.0/22

Left: 1732.540 $\pm$ 188.753 χ^2 /NDF: 48.5/47

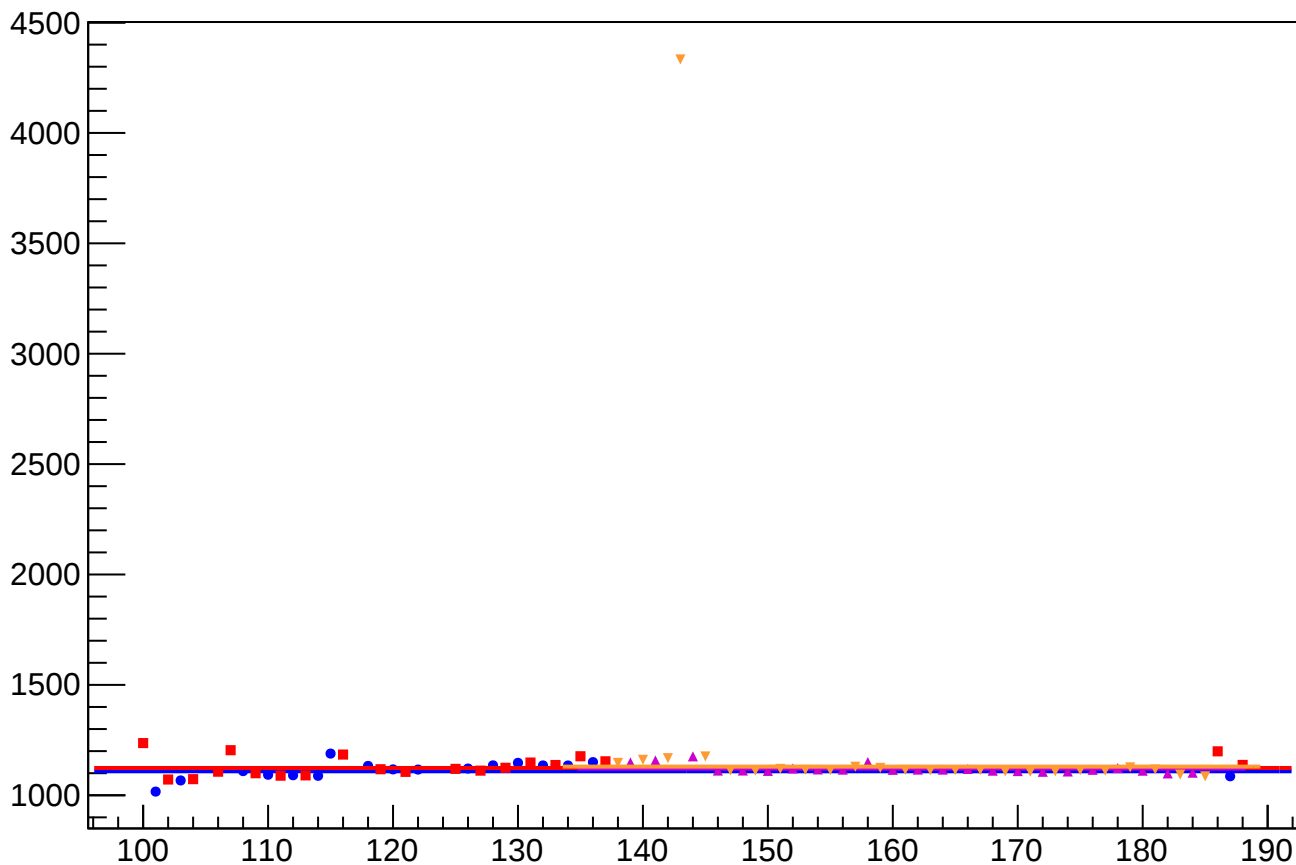
Right: 1776.805 $\pm$ 288.330 χ^2 /NDF: 20.9/36

In: 1851.991 $\pm$ 226.923 χ^2 /NDF:33.4/39

Out: 1646.103 $\pm$ 219.916 χ^2 /NDF:35.5/44

All: 1745.819 $\pm$ 157.923 χ^2 /NDF: 69.3/84

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1108.664+/-0.302 χ^2/NDF : 18375.5/16

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

Right Out: 1123.652+/-0.277 χ^2/NDF : 19128.7/19

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

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

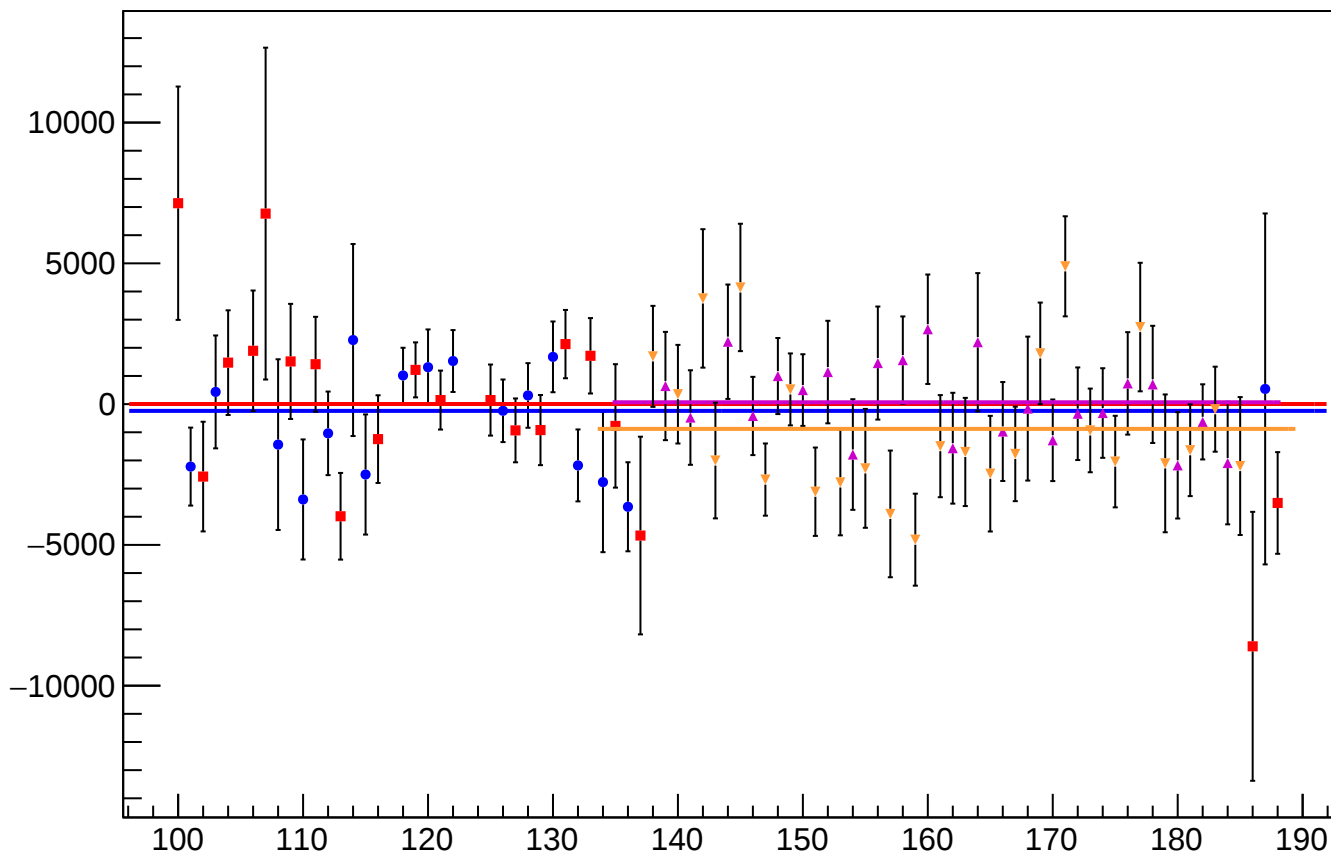
Right: 1116.802+/-0.204 χ^2/NDF : 38845.3/36

In: 1117.501+/-0.160 χ^2/NDF : 29215.0/39

Out: 1127.927+/-0.156 χ^2/NDF : 877737.6/44

All: 1122.878+/-0.112 χ^2/NDF : 909129.7/84

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -240.362 ± 360.880 $\chi^2/\text{NDF}: 22.6/16$

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

Right Out: 3.748 ± 349.801 $\chi^2/\text{NDF}: 32.5/19$

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

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

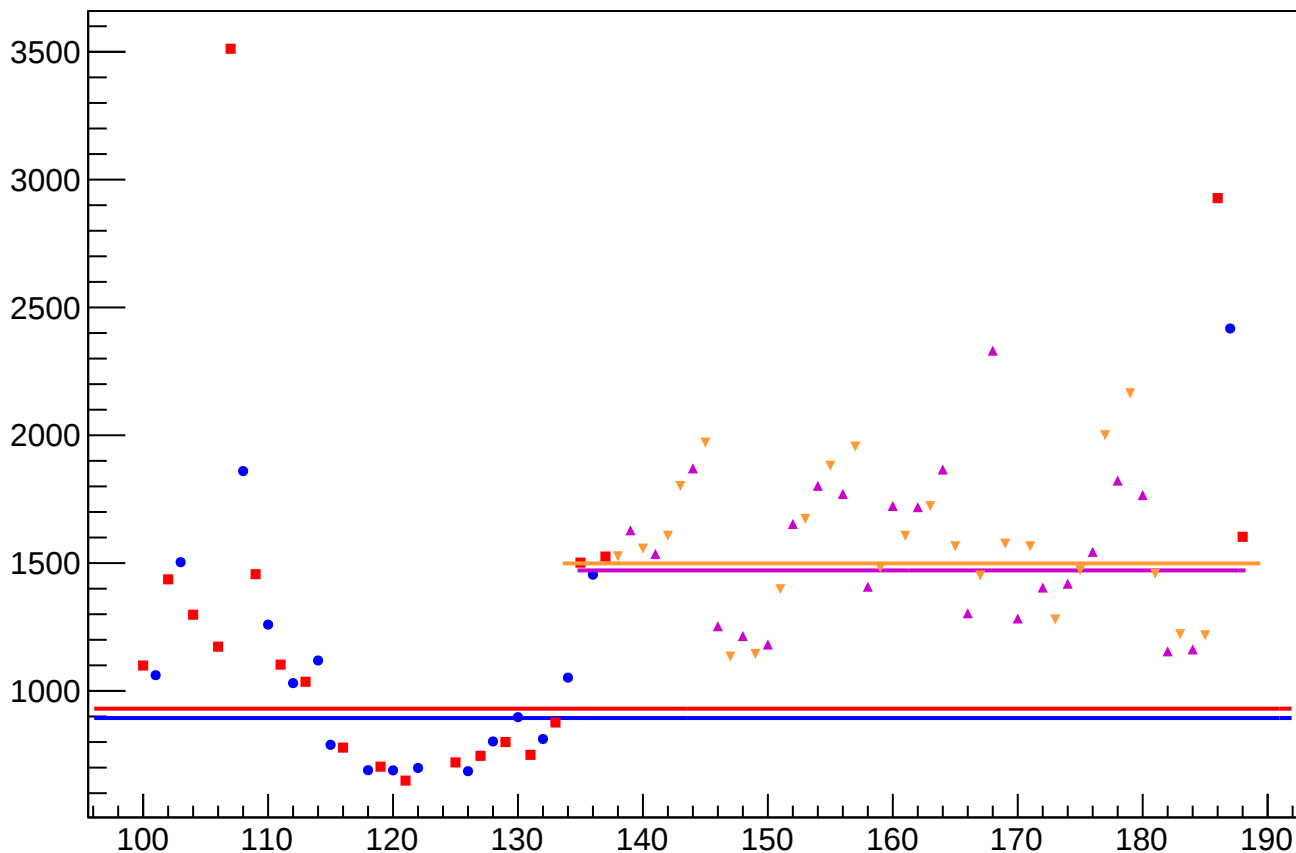
Right: -114.502 ± 251.172 $\chi^2/\text{NDF}: 55.3/36$

In: -86.421 ± 254.437 $\chi^2/\text{NDF}: 35.1/39$

Out: -430.593 ± 249.403 $\chi^2/\text{NDF}: 79.2/44$

All: -261.945 ± 178.108 $\chi^2/\text{NDF}: 115.2/84$

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 893.934+/-0.255 χ^2/NDF : 1172573.3/16

Left Out: 1498.849+/-0.252 χ^2/NDF : 1053906.2/24

Right Out: 930.535+/-0.247 χ^2/NDF : 2058279.6/19

Left In: 1471.394+/-0.254 χ^2/NDF : 1105310.5/22

Left: 1485.240+/-0.179 χ^2/NDF : 2165123.0/47

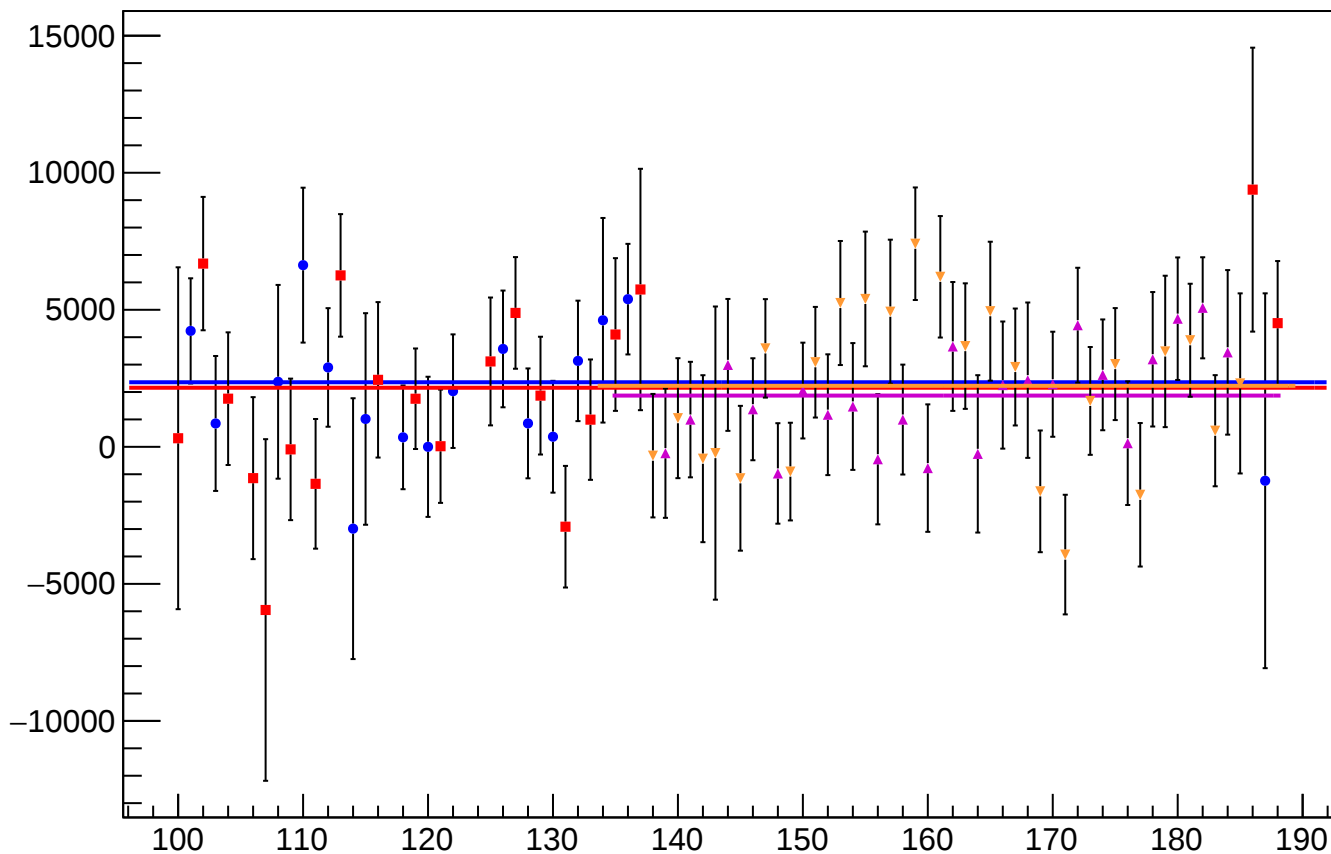
Right: 912.805+/-0.178 χ^2/NDF : 3241460.3/36

In: 1184.344+/-0.180 χ^2/NDF : 4853247.4/39

Out: 1209.947+/-0.176 χ^2/NDF : 5707676.3/44

All: 1197.402+/-0.126 χ^2/NDF : 10571251.4/86

asym_usl_mean vs Slug, Sign Corrected



Right In: 2355.921 $\pm$ 588.506 χ^2 /NDF: 11.9/16

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

Right Out: 2156.170 $\pm$ 563.024 χ^2 /NDF: 25.6/19

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

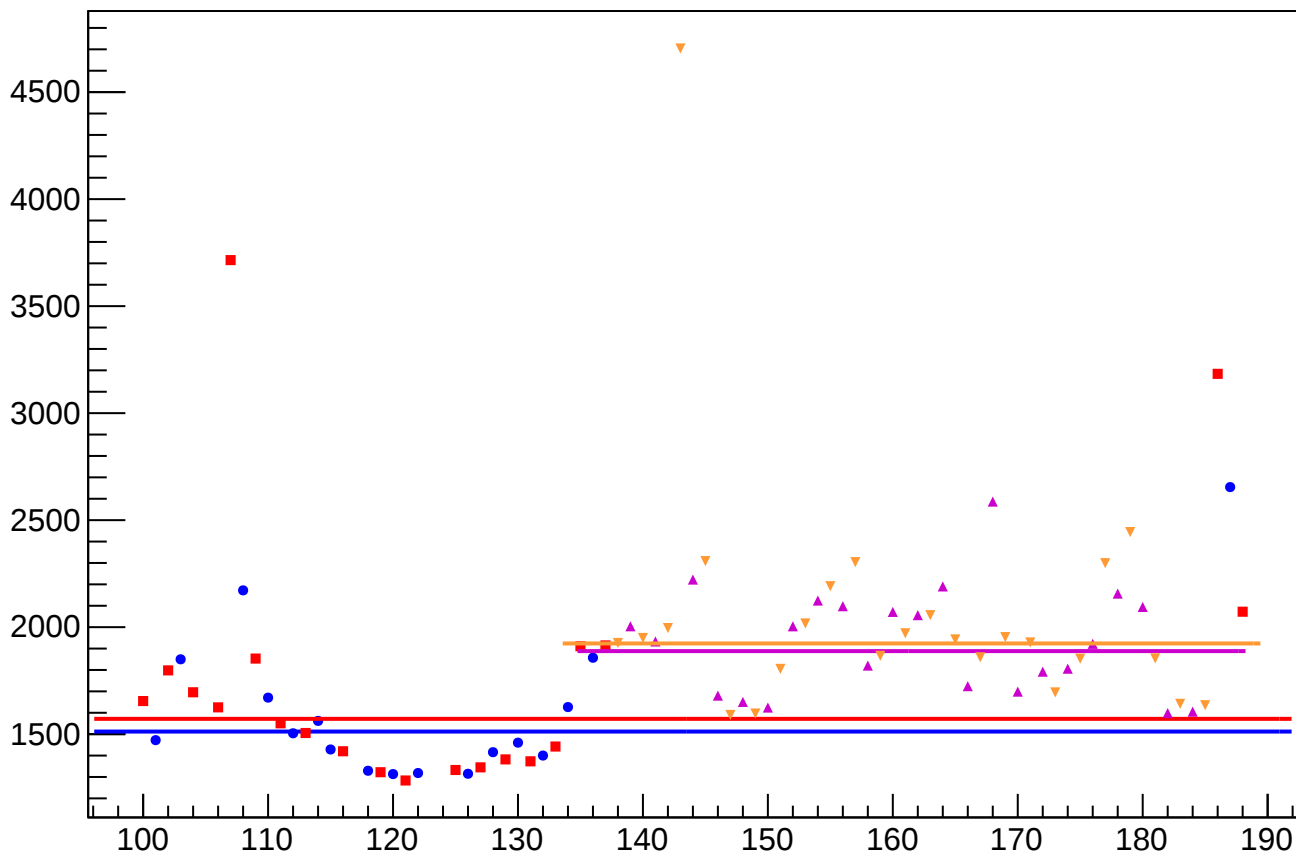
Right: 2251.627 $\pm$ 406.828 χ^2 /NDF: 37.6/36

In: 2051.895 $\pm$ 360.192 χ^2 /NDF:27.2/39

Out: 2198.748 $\pm$ 353.802 χ^2 /NDF:64.4/44

All: 2126.636 $\pm$ 252.405 χ^2 /NDF: 91.7/84

asym_usl_rms vs Slug, Sign Corrected



Right In: 1512.200+/-0.416 χ^2/NDF : 308365.8/16

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

Right Out: 1571.625+/-0.398 χ^2/NDF : 784813.1/19

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

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

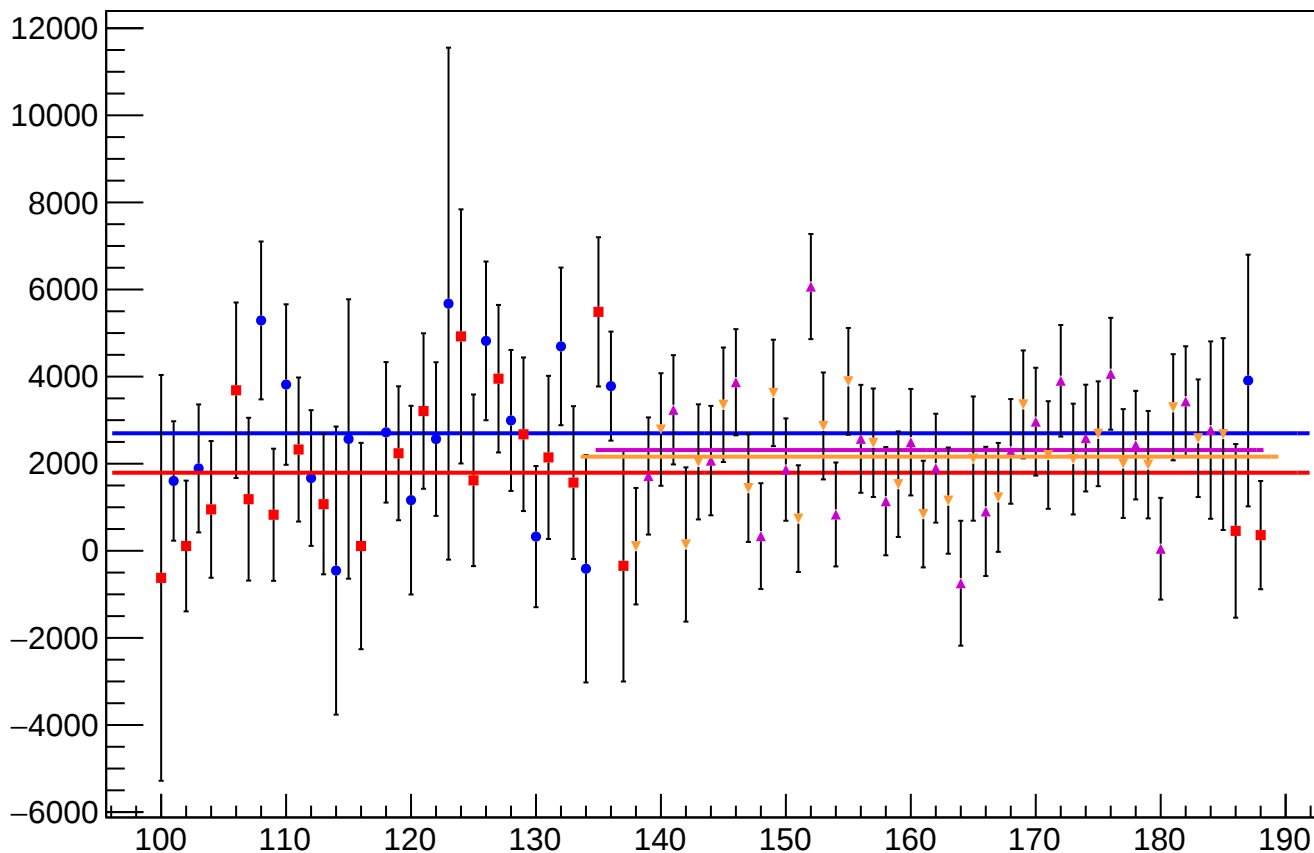
Right: 1543.227+/-0.288 χ^2/NDF : 1103825.9/36

In: 1747.302+/-0.255 χ^2/NDF : 1323297.9/39

Out: 1784.752+/-0.250 χ^2/NDF : 2264570.7/44

All: 1766.362+/-0.178 χ^2/NDF : 3598872.6/84

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2698.693 $\pm$ 429.735 χ^2/NDF : 12.6/17

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

Right Out: 1793.094 $\pm$ 390.313 χ^2/NDF : 14.9/20

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

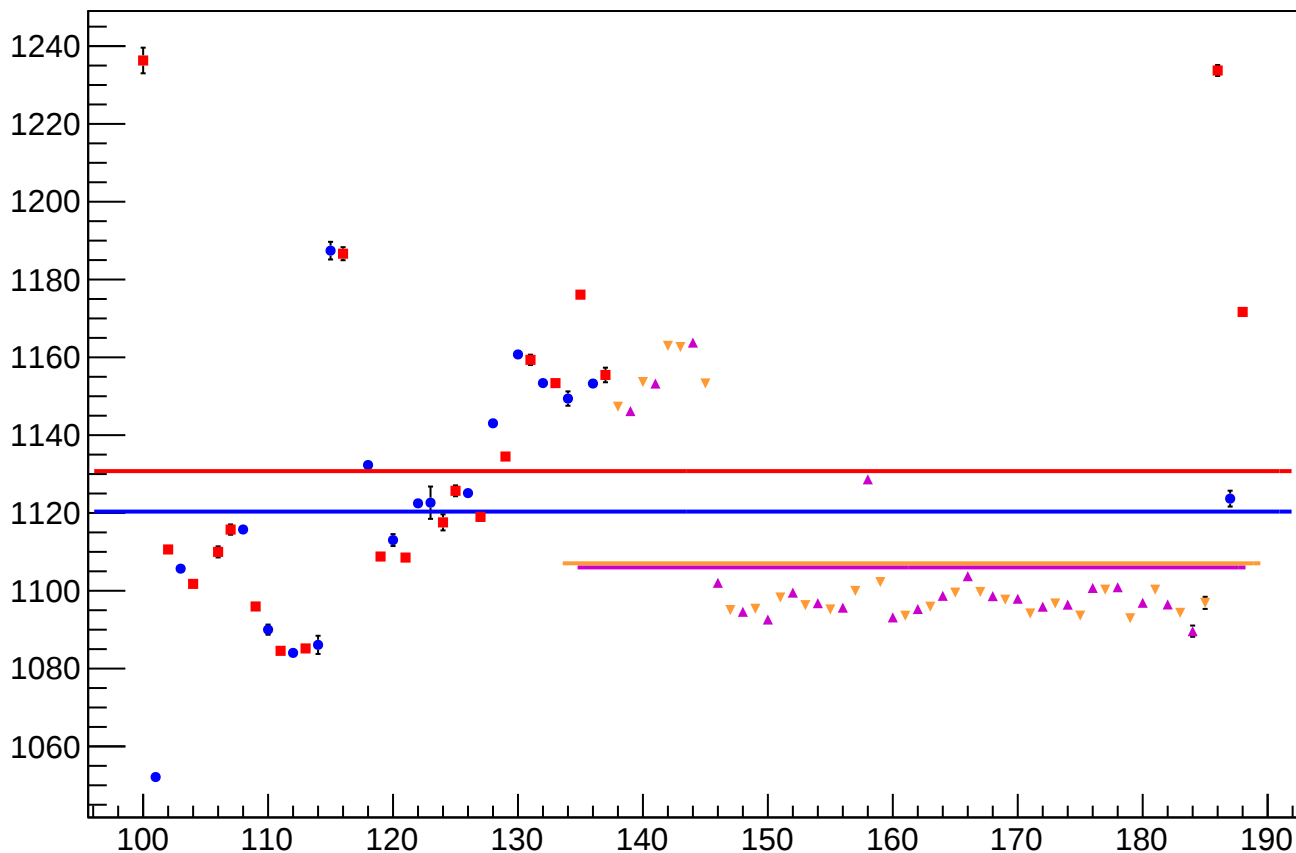
Right: 2202.458 $\pm$ 288.927 χ^2/NDF : 29.9/38

In: 2419.294 $\pm$ 225.209 χ^2/NDF : 44.4/40

Out: 2049.718 $\pm$ 214.949 χ^2/NDF : 30.6/45

All: 2225.897 $\pm$ 155.493 χ^2/NDF : 76.4/86

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1120.353 $\pm$ 0.304 χ^2/NDF : 11965.5/17

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

Right Out: 1130.759 $\pm$ 0.276 χ^2/NDF : 18490.3/20

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

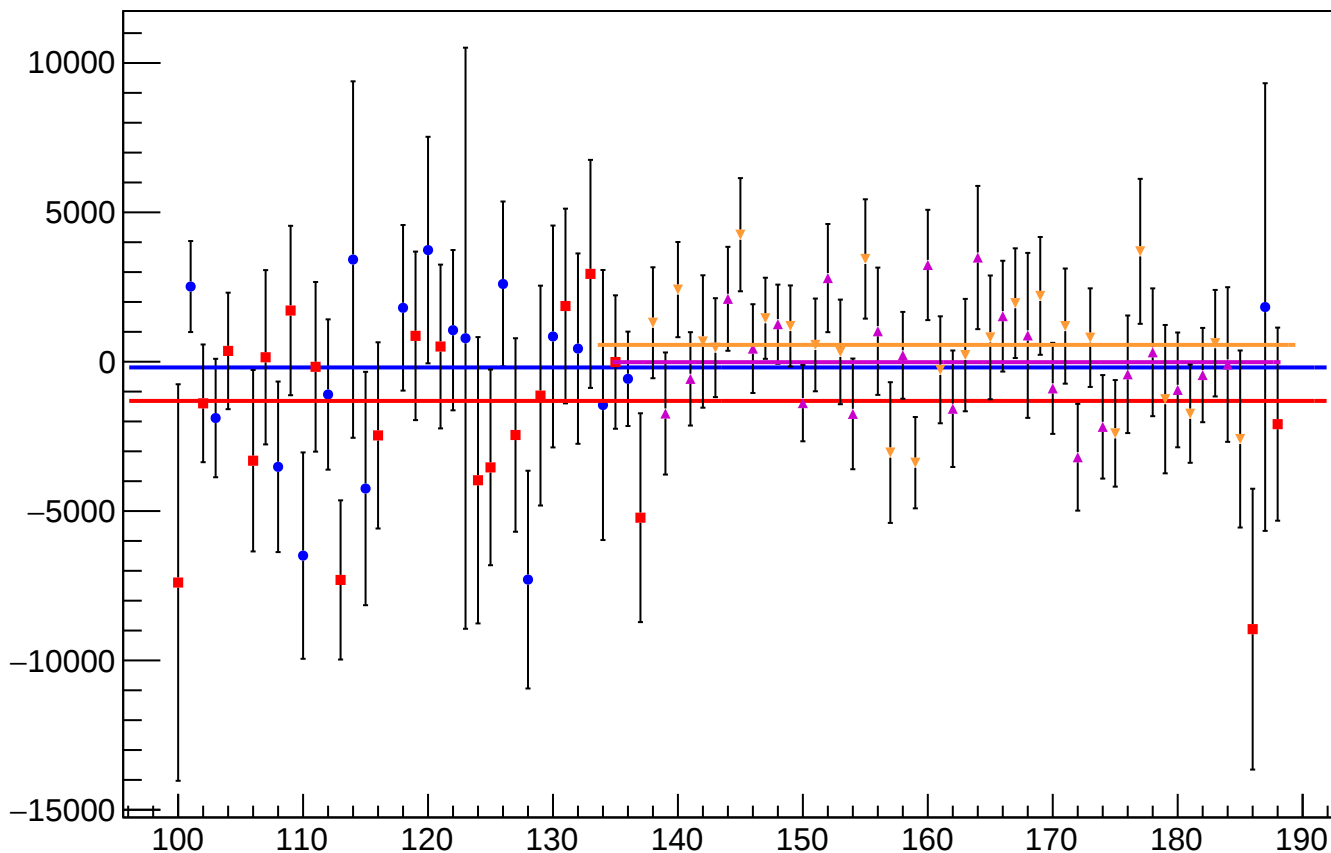
Right: 1126.055 $\pm$ 0.204 χ^2/NDF : 31098.4/38

In: 1109.939 $\pm$ 0.159 χ^2/NDF : 25135.8/40

Out: 1114.245 $\pm$ 0.152 χ^2/NDF : 38804.4/45

All: 1112.193 $\pm$ 0.110 χ^2/NDF : 64322.7/86

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: -191.828+/-654.125 χ^2/NDF : 17.1/17

Left Out: 563.282+/-360.901 χ^2/NDF : 26.8/24

Right Out: -1312.479+/-643.886 χ^2/NDF : 17.2/20

Left In: -15.520+/-366.854 χ^2/NDF : 20.1/22

Left: 278.615+/-257.275 χ^2/NDF : 48.2/47

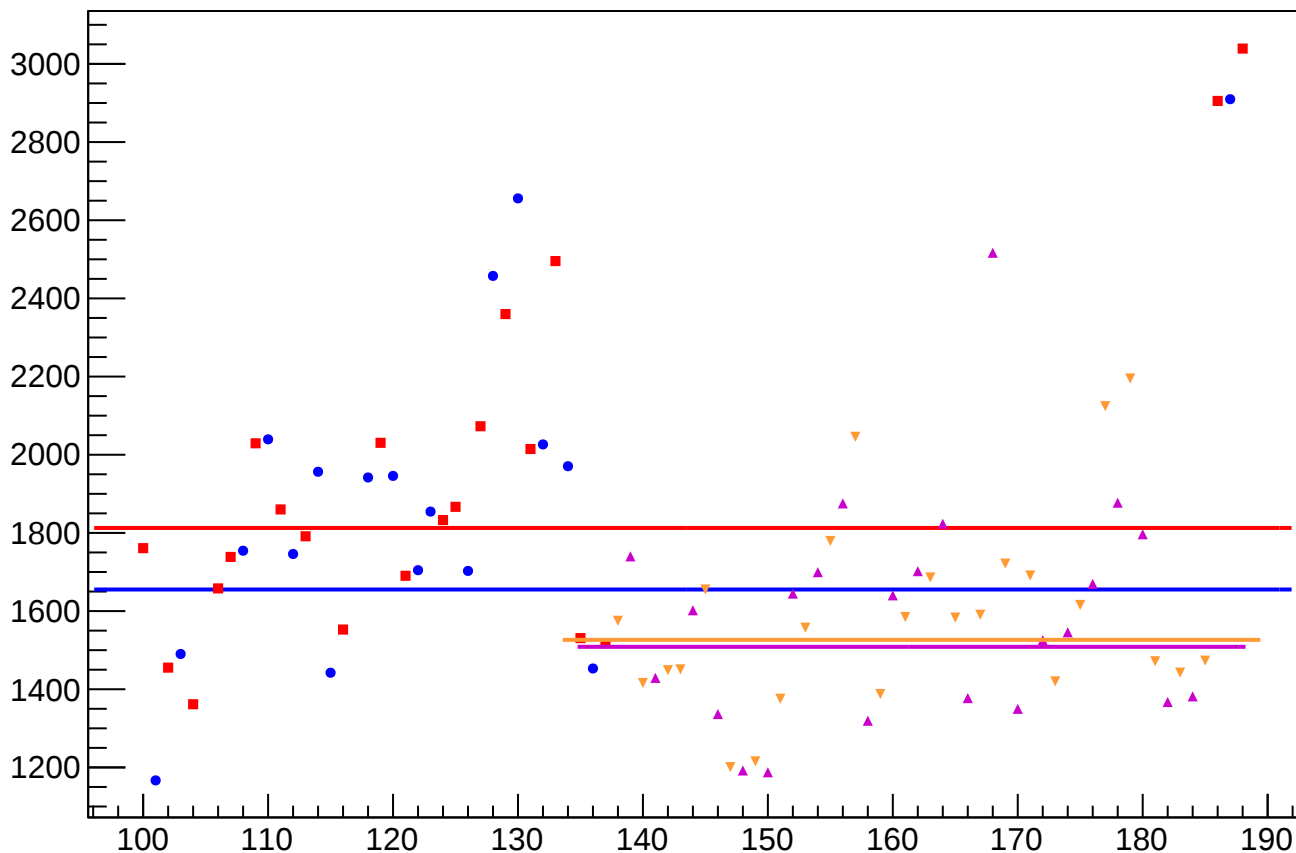
Right: -760.994+/-458.873 χ^2/NDF : 35.8/38

In: -57.706+/-319.969 χ^2/NDF : 37.3/40

Out: 114.860+/-314.821 χ^2/NDF : 50.4/45

All: 29.977+/-224.410 χ^2/NDF : 87.9/86

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1655.212 $\pm$ 0.463 χ^2 /NDF: 663184.9/17

Left Out: 1526.391 $\pm$ 0.255 χ^2 /NDF: 753714.4/24

Right Out: 1812.721 $\pm$ 0.455 χ^2 /NDF: 793124.6/20

Left In: 1508.581 $\pm$ 0.259 χ^2 /NDF: 931684.8/22

Left: 1517.632 $\pm$ 0.182 χ^2 /NDF: 1687794.7/47

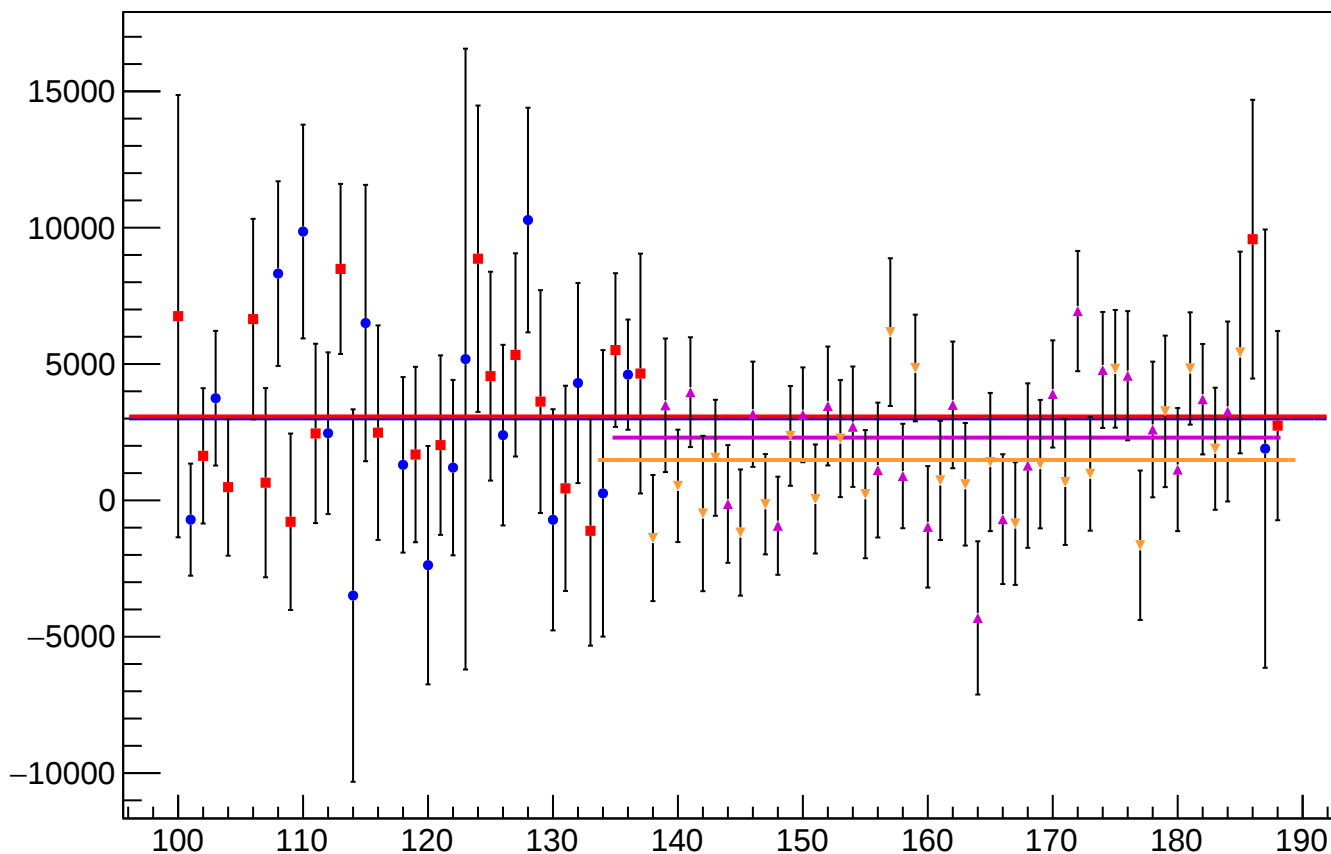
Right: 1735.209 $\pm$ 0.324 χ^2 /NDF: 1515205.1/38

In: 1543.666 $\pm$ 0.226 χ^2 /NDF: 1671321.9/40

Out: 1594.841 $\pm$ 0.223 χ^2 /NDF: 1847788.7/45

All: 1569.669 $\pm$ 0.159 χ^2 /NDF: 3545106.0/86

asym_usr_mean vs Slug, Sign Corrected



Right In: 3007.383 $\pm$ 800.020 χ^2 /NDF: 17.5/17

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

Right Out: 3077.006 $\pm$ 768.093 χ^2 /NDF: 13.4/20

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

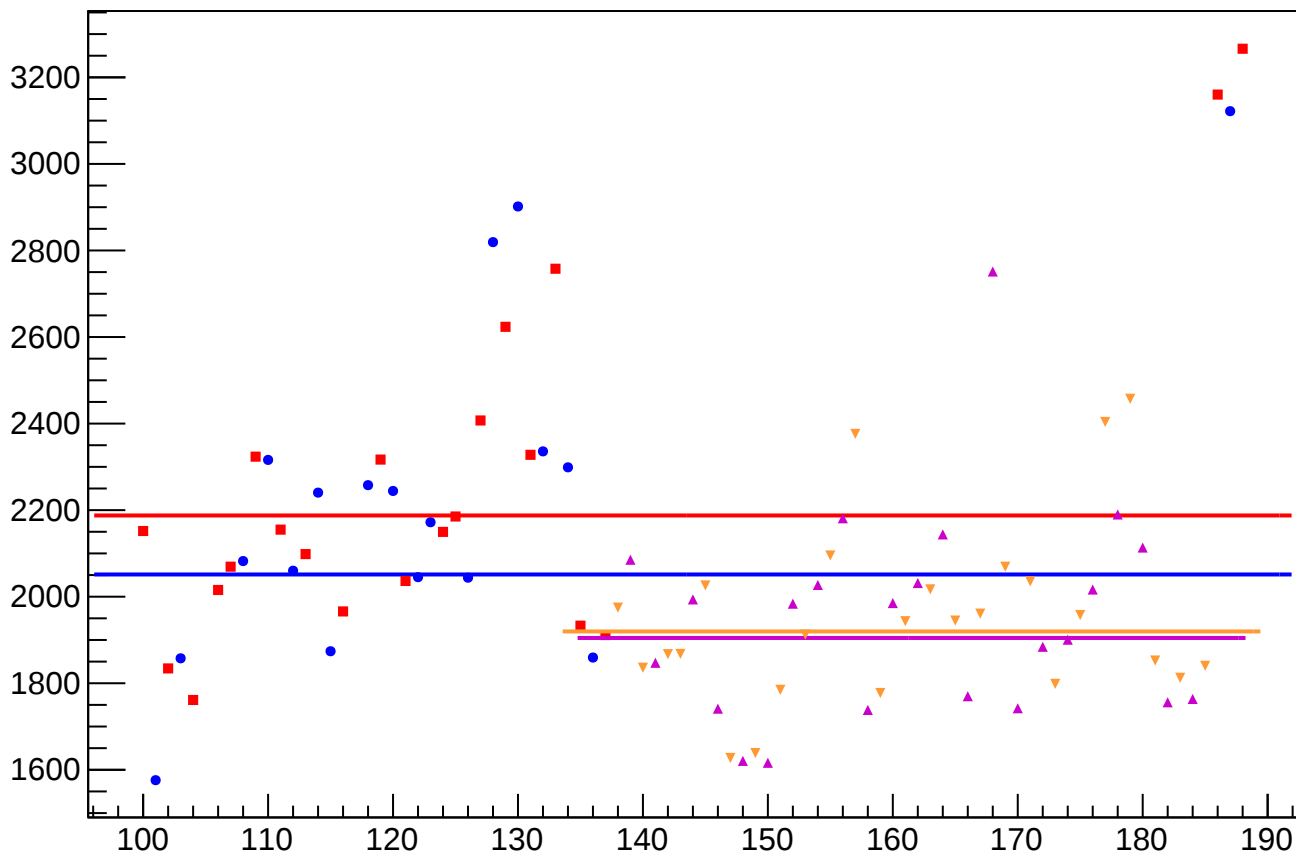
Right: 3043.611 $\pm$ 554.067 χ^2 /NDF: 30.9/38

In: 2476.146 $\pm$ 398.153 χ^2 /NDF:42.9/40

Out: 1889.823 $\pm$ 388.261 χ^2 /NDF:37.5/45

All: 2175.610 $\pm$ 277.973 χ^2 /NDF: 81.5/86

asym_usr_rms vs Slug, Sign Corrected



Right In: 2051.348+/-0.566 χ^2/NDF : 372406.5/17

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

Right Out: 2187.687+/-0.543 χ^2/NDF : 483017.0/20

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

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

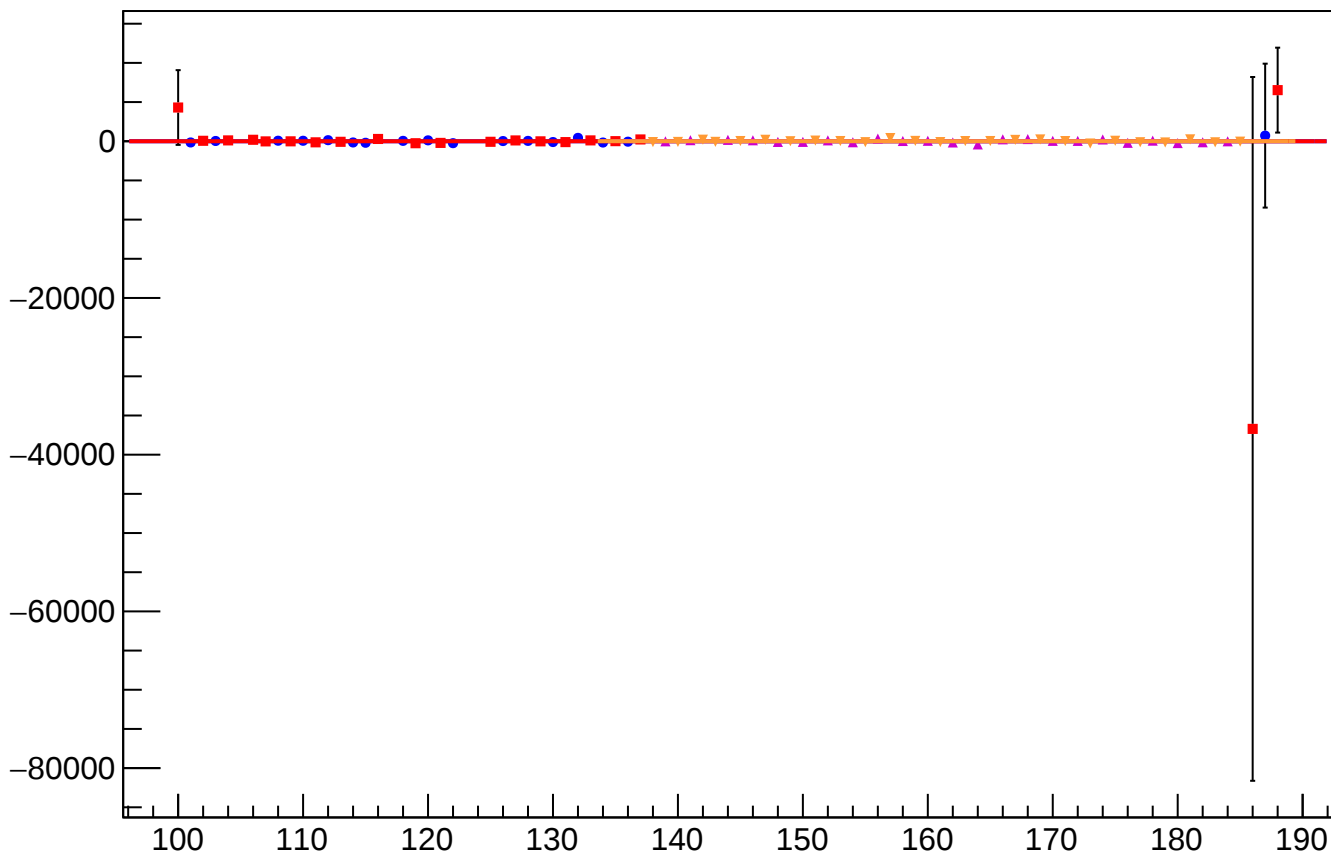
Right: 2122.292+/-0.392 χ^2/NDF : 885648.4/38

In: 1940.969+/-0.282 χ^2/NDF : 870363.3/40

Out: 1988.199+/-0.275 χ^2/NDF : 1030444.9/45

All: 1965.178+/-0.197 χ^2/NDF : 1915233.5/86

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.758 ± 36.771 χ^2/NDF : 16.5/16

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

Right Out: 1.735 ± 36.755 χ^2/NDF : 15.9/19

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

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

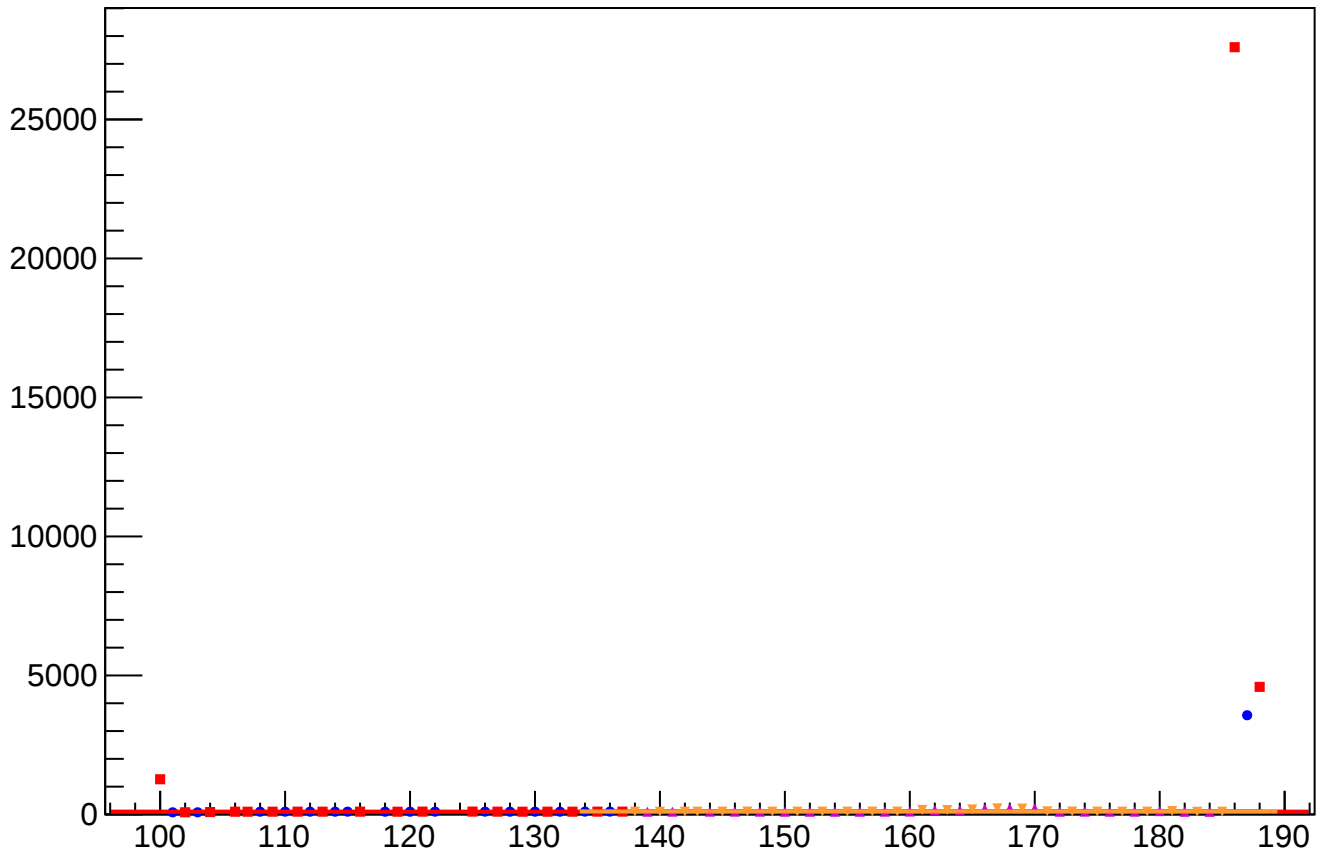
Right: 0.489 ± 25.995 χ^2/NDF : 32.4/36

In: 16.122 ± 21.415 χ^2/NDF : 53.3/39

Out: 5.693 ± 20.992 χ^2/NDF : 52.4/44

All: 10.803 ± 14.991 χ^2/NDF : 105.8/84

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.103+/-0.026 χ^2/NDF : 438429.5/16

Left Out: 107.590+/-0.018 χ^2/NDF : 1447372.1/24

Right Out: 96.583+/-0.026 χ^2/NDF : 2334498.5/19

Left In: 107.672+/-0.019 χ^2/NDF : 1491034.7/22

Left: 107.630+/-0.013 χ^2/NDF : 2938417.0/47

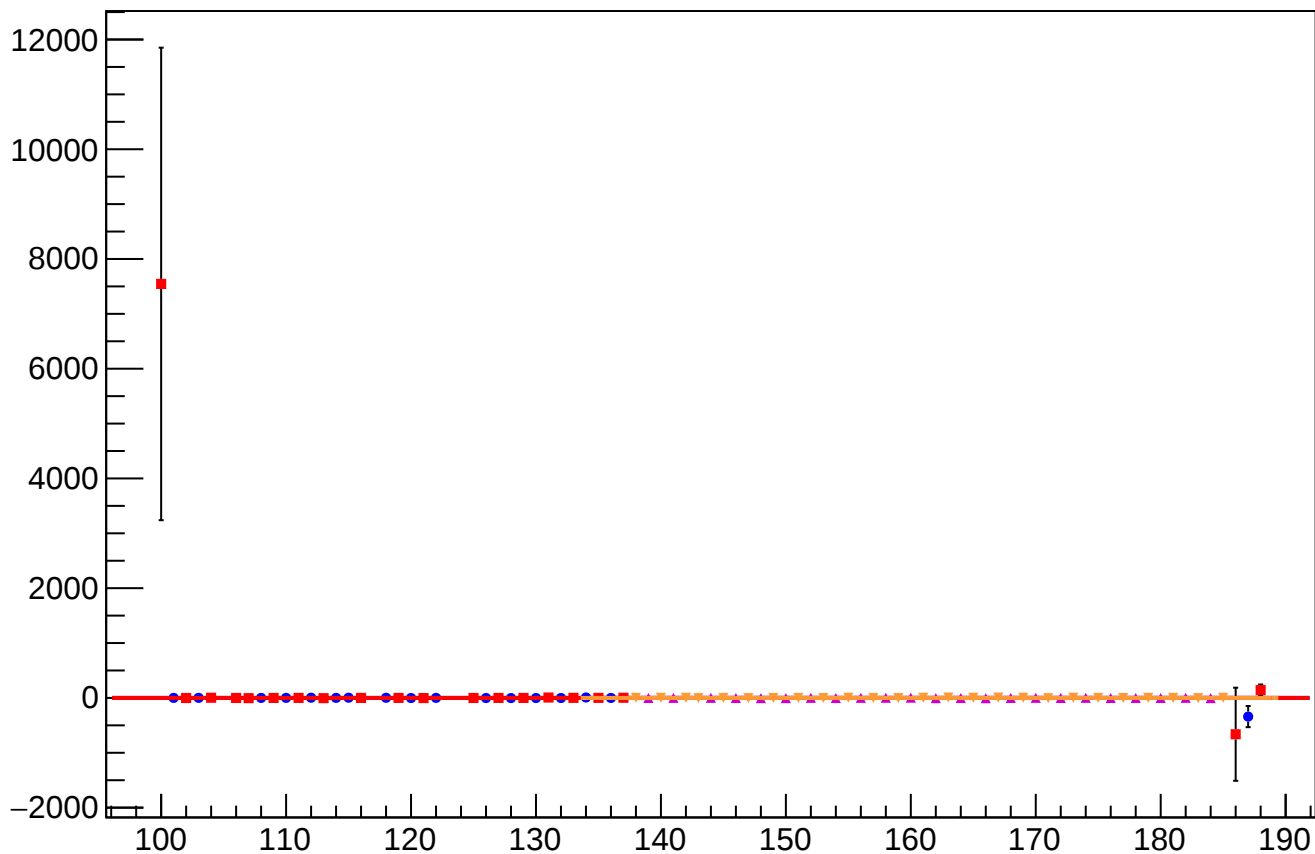
Right: 95.344+/-0.018 χ^2/NDF : 2777480.3/36

In: 103.070+/-0.015 χ^2/NDF : 2109451.0/39

Out: 104.000+/-0.015 χ^2/NDF : 3902715.9/44

All: 103.544+/-0.011 χ^2/NDF : 6014088.7/84

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.386 ± 0.617 $\chi^2/\text{NDF}: 13.5/16$

Left Out: -0.765 ± 0.459 $\chi^2/\text{NDF}: 34.1/24$

Right Out: -0.339 ± 0.644 $\chi^2/\text{NDF}: 23.6/19$

Left In: -0.067 ± 0.485 $\chi^2/\text{NDF}: 25.0/22$

Left: -0.435 ± 0.333 $\chi^2/\text{NDF}: 60.2/47$

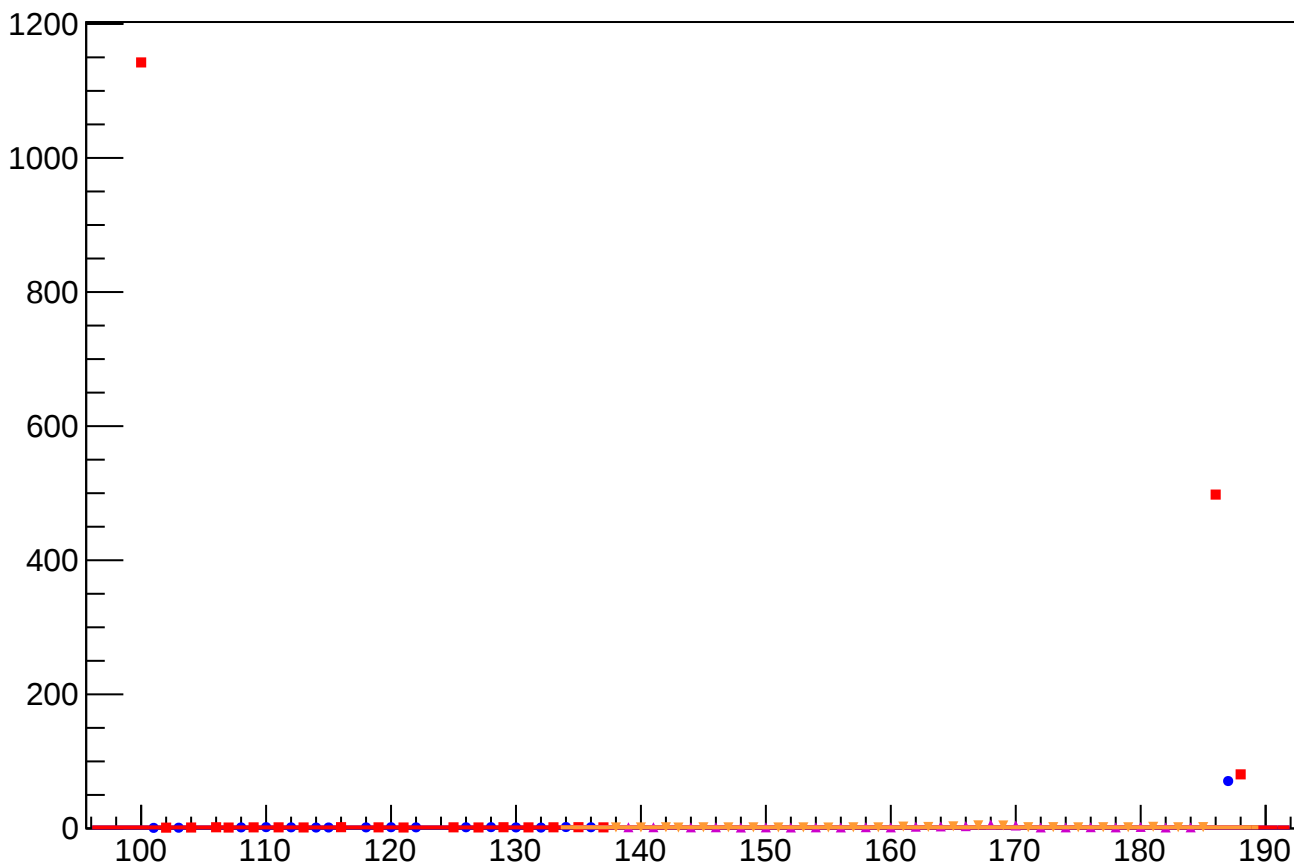
Right: 0.039 ± 0.445 $\chi^2/\text{NDF}: 37.8/36$

In: 0.106 ± 0.381 $\chi^2/\text{NDF}: 38.9/39$

Out: -0.621 ± 0.374 $\chi^2/\text{NDF}: 58.0/44$

All: -0.265 ± 0.267 $\chi^2/\text{NDF}: 98.7/84$

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.421+/-0.000 χ^2/NDF : 971836.1/16

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

Right Out: 1.558+/-0.000 χ^2/NDF : 2202861.5/19

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

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

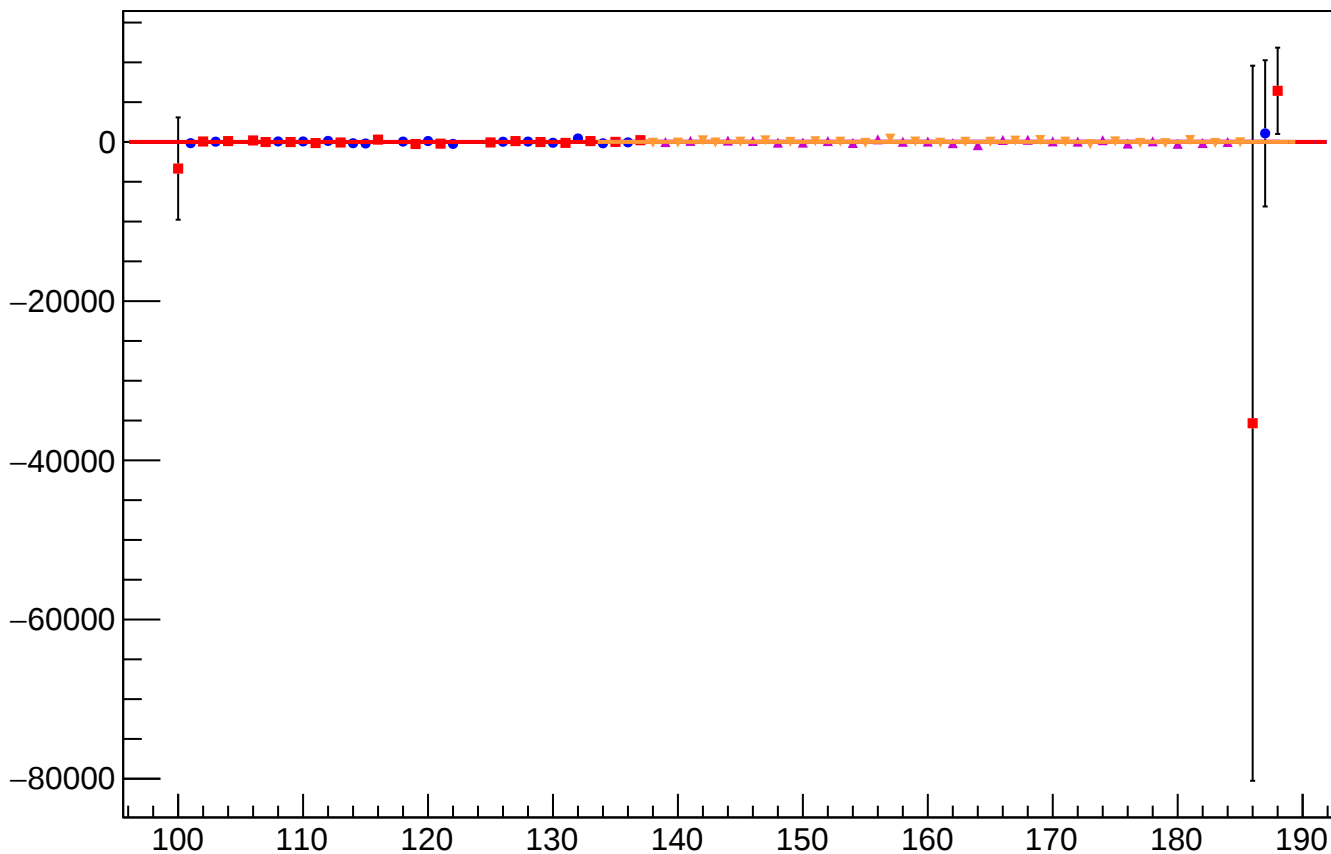
Right: 1.487+/-0.000 χ^2/NDF : 3222341.0/36

In: 1.657+/-0.000 χ^2/NDF : 3366568.7/39

Out: 1.683+/-0.000 χ^2/NDF : 3999719.0/44

All: 1.670+/-0.000 χ^2/NDF : 7371067.1/84

asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.456 ± 36.781 $\chi^2/\text{NDF}: 16.7/16$

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

Right Out: 1.495 ± 36.765 $\chi^2/\text{NDF}: 15.3/19$

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

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

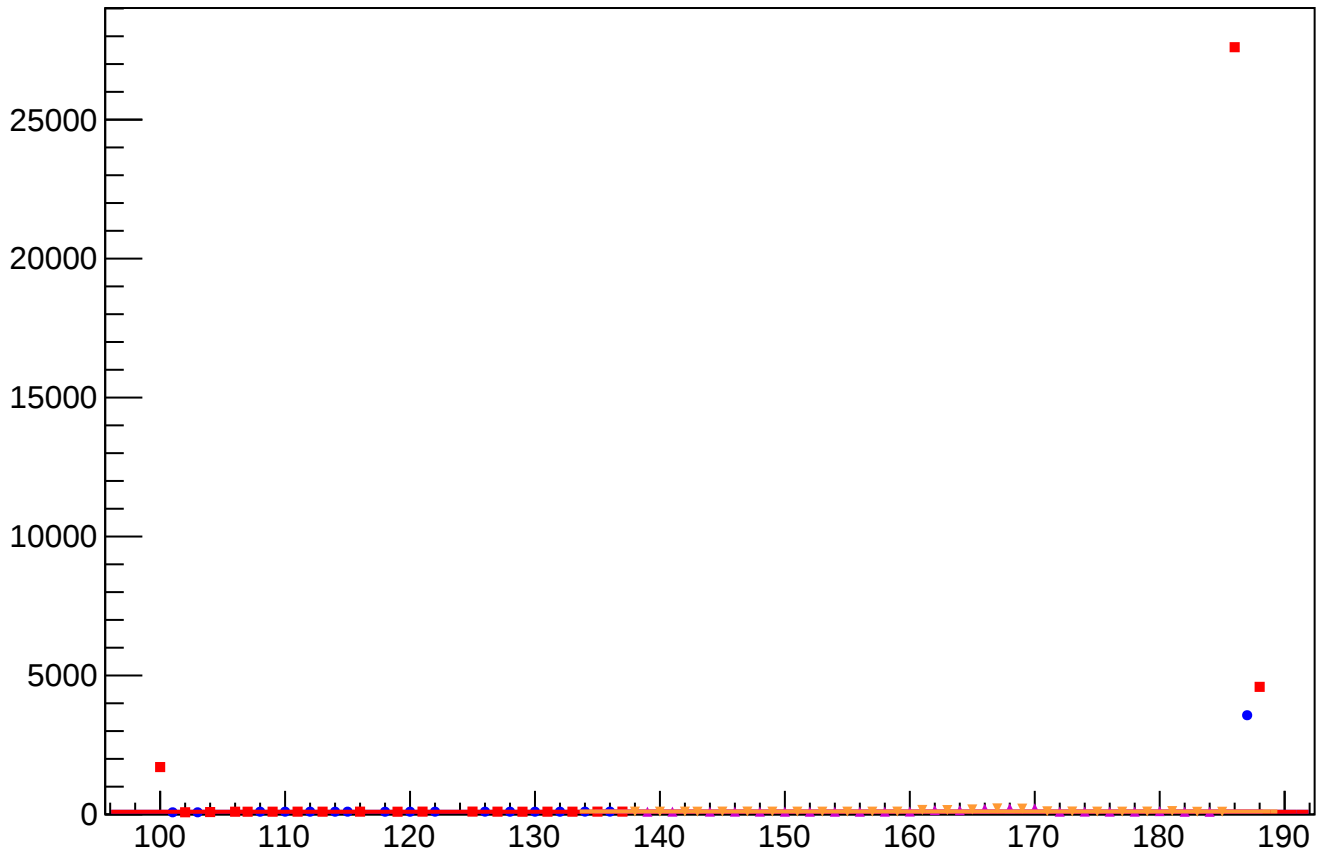
Right: 0.520 ± 26.002 $\chi^2/\text{NDF}: 32.0/36$

In: 16.571 ± 21.421 $\chi^2/\text{NDF}: 52.7/39$

Out: 6.155 ± 20.998 $\chi^2/\text{NDF}: 51.7/44$

All: 11.260 ± 14.995 $\chi^2/\text{NDF}: 104.5/84$

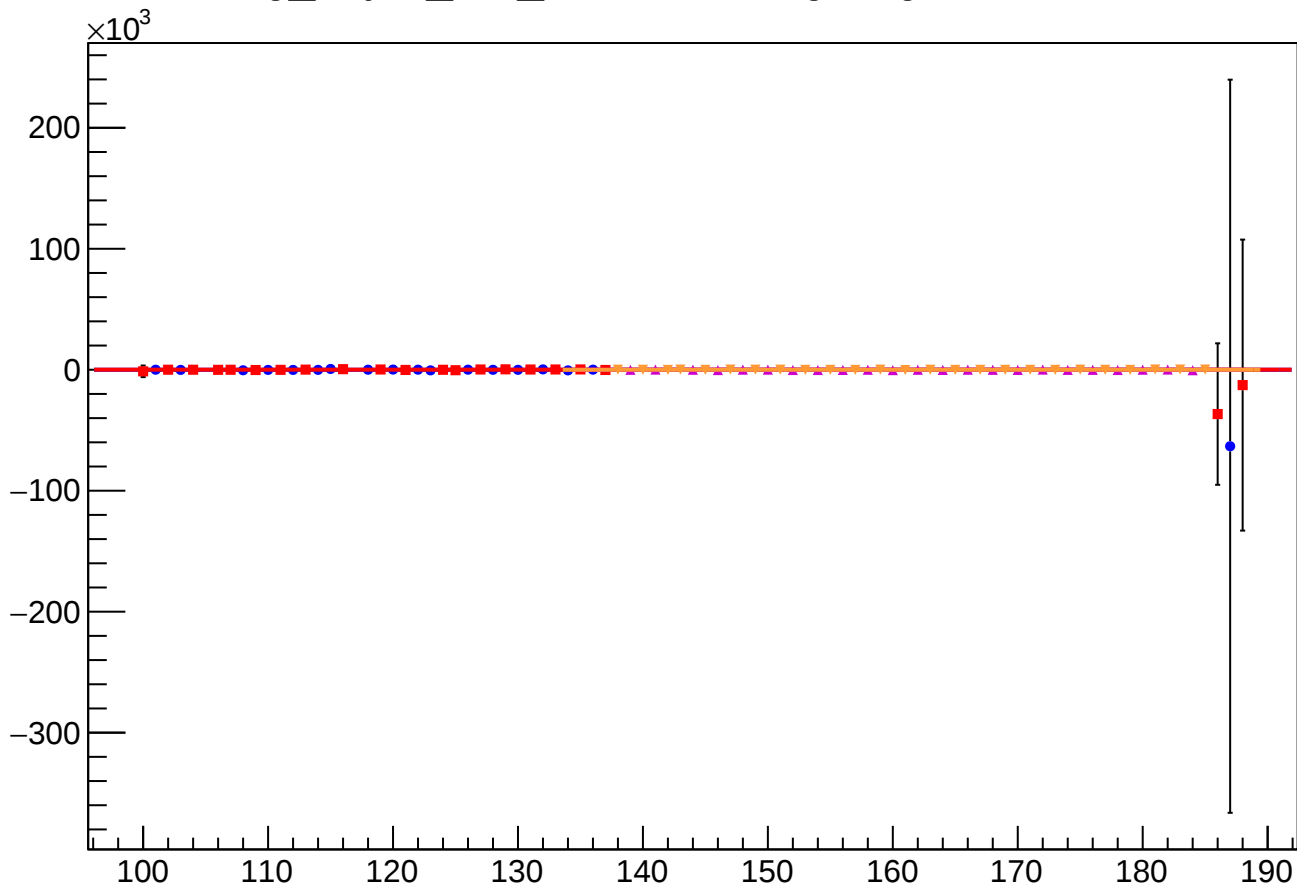
asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.127+/-0.026 χ^2/NDF : 438449.6/16
Left Out: 107.620+/-0.018 χ^2/NDF : 1448769.2/24
Right Out: 96.592+/-0.026 χ^2/NDF : 2339684.1/19
Left In: 107.703+/-0.019 χ^2/NDF : 1492338.5/22

Left: 107.660+/-0.013 χ^2/NDF : 2941117.9/47
Right: 95.360+/-0.018 χ^2/NDF : 2782627.3/36
In: 103.098+/-0.015 χ^2/NDF : 2110847.7/39
Out: 104.023+/-0.015 χ^2/NDF : 3909705.0/44
All: 103.570+/-0.011 χ^2/NDF : 6022453.0/84

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.799 $\pm$ 46.841 χ^2 /NDF: 14.5/17

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

Right Out: 53.358 $\pm$ 47.775 χ^2 /NDF: 15.8/20

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

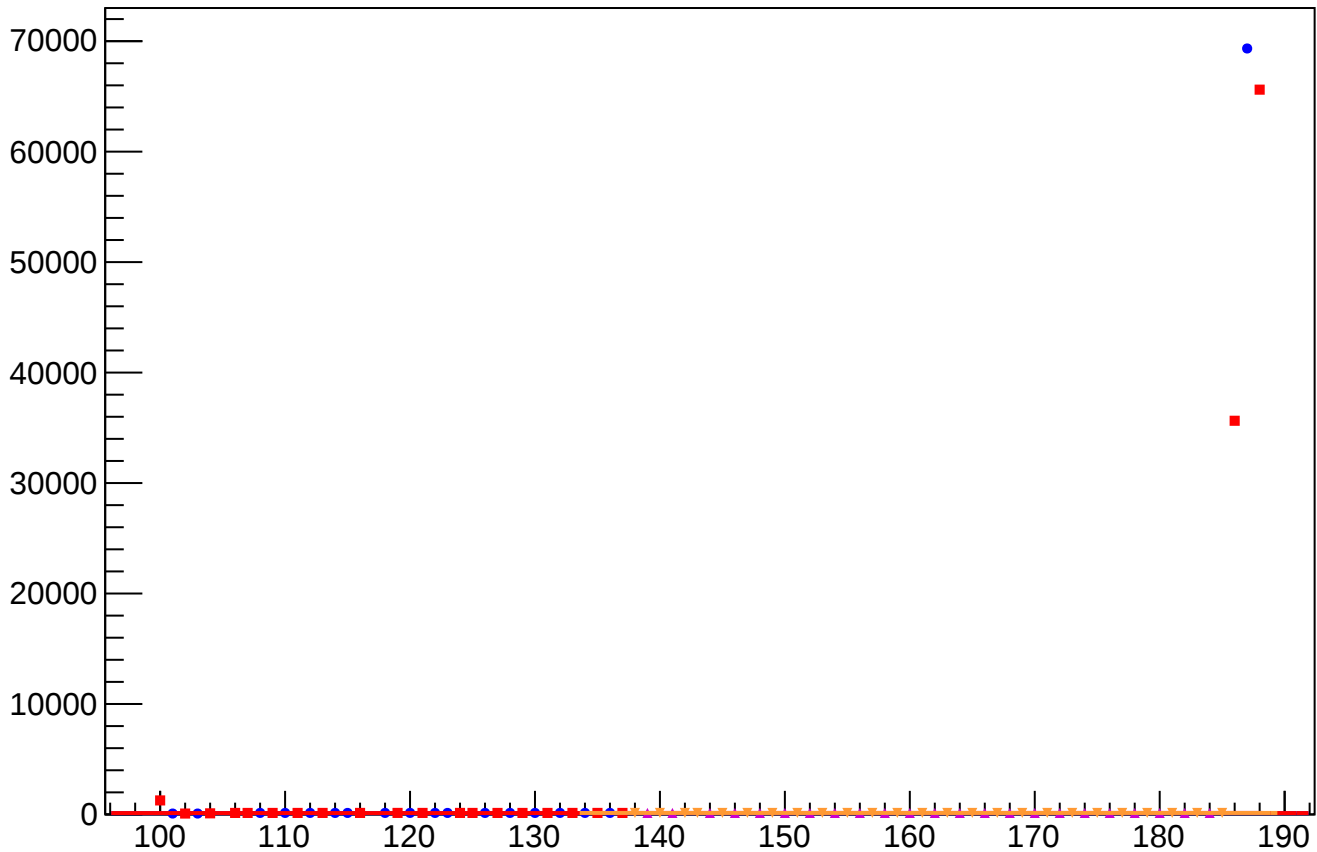
Right: 12.488 $\pm$ 33.447 χ^2 /NDF: 31.7/38

In: -52.582 $\pm$ 26.947 χ^2 /NDF:34.2/40

Out: 7.724 $\pm$ 26.623 χ^2 /NDF:29.1/45

All: -22.064 $\pm$ 18.939 χ^2 /NDF: 65.9/86

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.764 $\pm$ 0.033 χ^2 /NDF: 797574.6/17

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

Right Out: 124.760 $\pm$ 0.034 χ^2 /NDF: 1999974.9/20

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

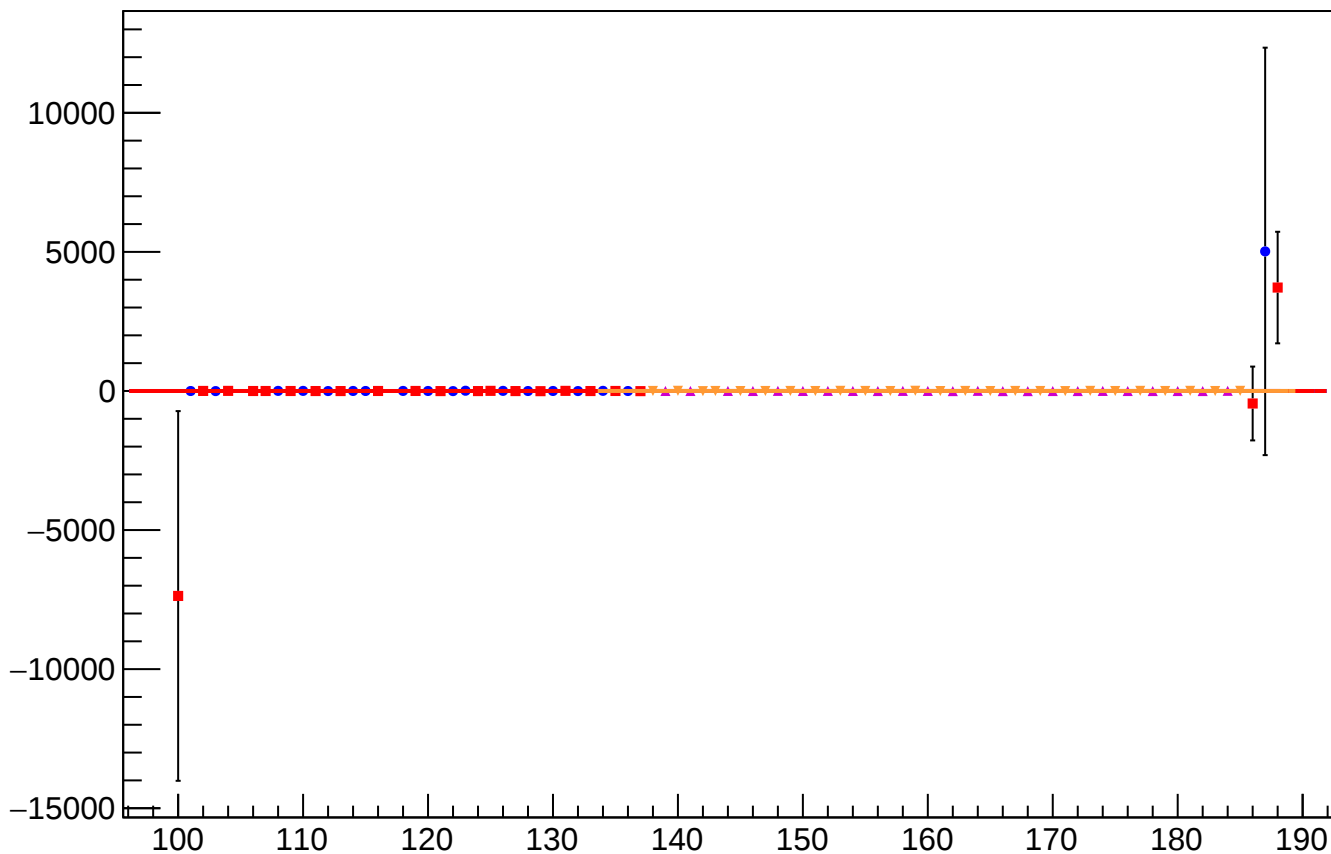
Right: 121.193 $\pm$ 0.024 χ^2 /NDF: 2819418.3/38

In: 131.172 $\pm$ 0.019 χ^2 /NDF: 1042978.0/40

Out: 133.789 $\pm$ 0.019 χ^2 /NDF: 2104041.9/45

All: 132.497 $\pm$ 0.013 χ^2 /NDF: 3156569.2/86

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 12.7/17

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

Right Out: -0.638 ± 0.852 χ^2/NDF : 18.3/20

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

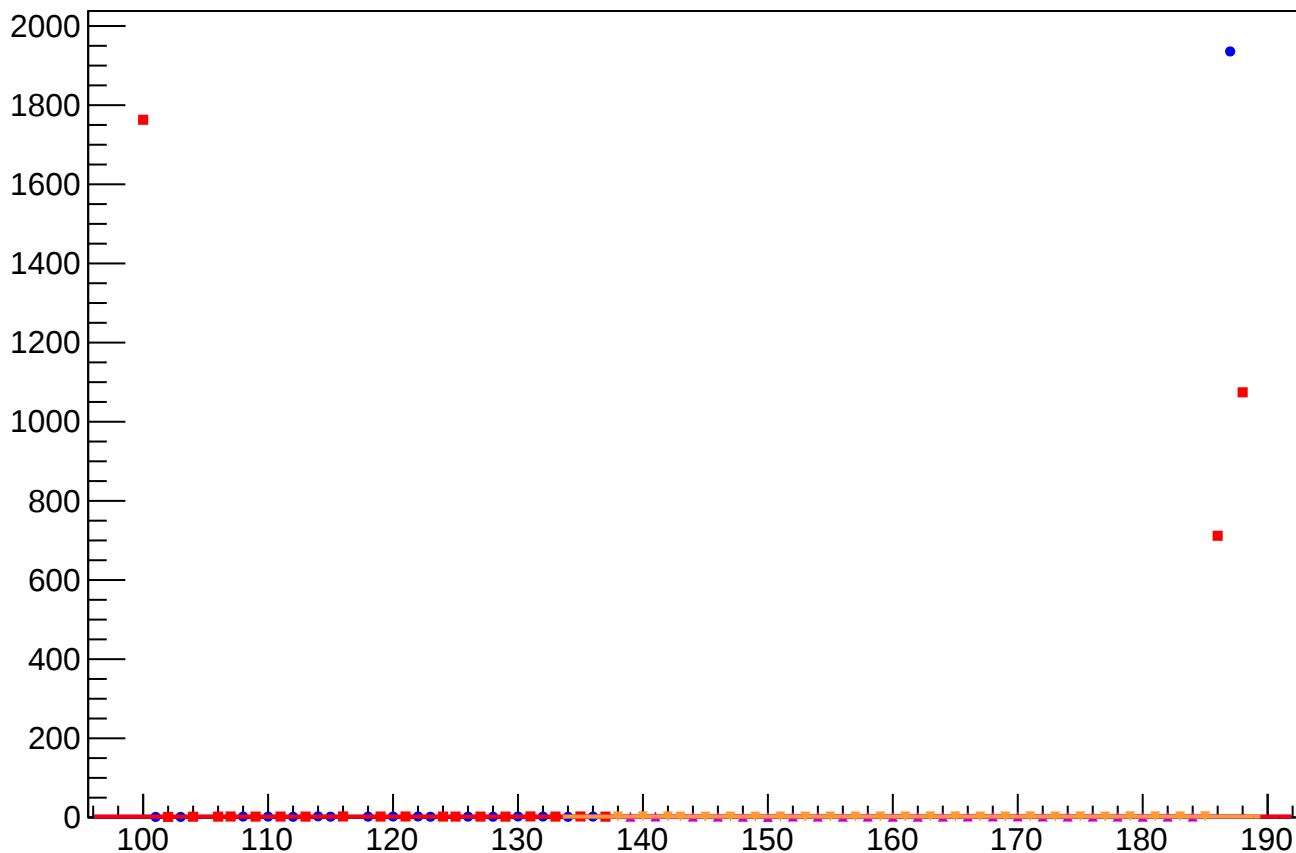
Right: -0.680 ± 0.587 χ^2/NDF : 30.9/38

In: -0.052 ± 0.471 χ^2/NDF : 34.4/40

Out: 0.139 ± 0.475 χ^2/NDF : 48.4/45

All: 0.043 ± 0.334 χ^2/NDF : 82.9/86

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.865+/-0.001 χ^2/NDF : 629203.6/17

Left Out: 2.262+/-0.000 χ^2/NDF : 374973.2/24

Right Out: 2.064+/-0.001 χ^2/NDF : 1665698.4/20

Left In: 2.193+/-0.000 χ^2/NDF : 510890.7/22

Left: 2.228+/-0.000 χ^2/NDF : 900243.0/47

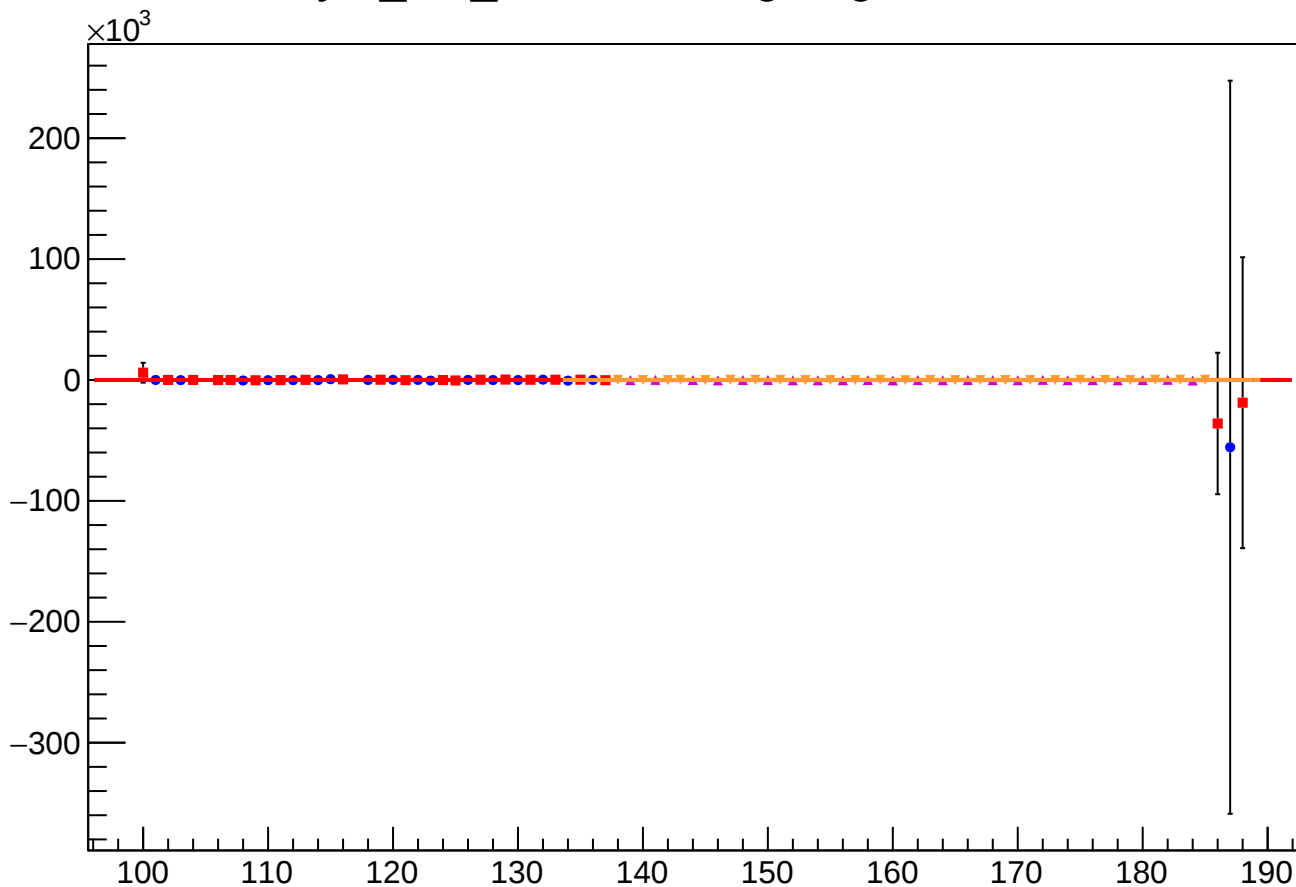
Right: 1.960+/-0.000 χ^2/NDF : 2352035.6/38

In: 2.082+/-0.000 χ^2/NDF : 1356604.7/40

Out: 2.200+/-0.000 χ^2/NDF : 2114980.5/45

All: 2.141+/-0.000 χ^2/NDF : 3534153.2/86

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.061 $\pm$ 46.854 χ^2 /NDF: 14.5/17

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

Right Out: 54.259 $\pm$ 47.789 χ^2 /NDF: 16.5/20

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

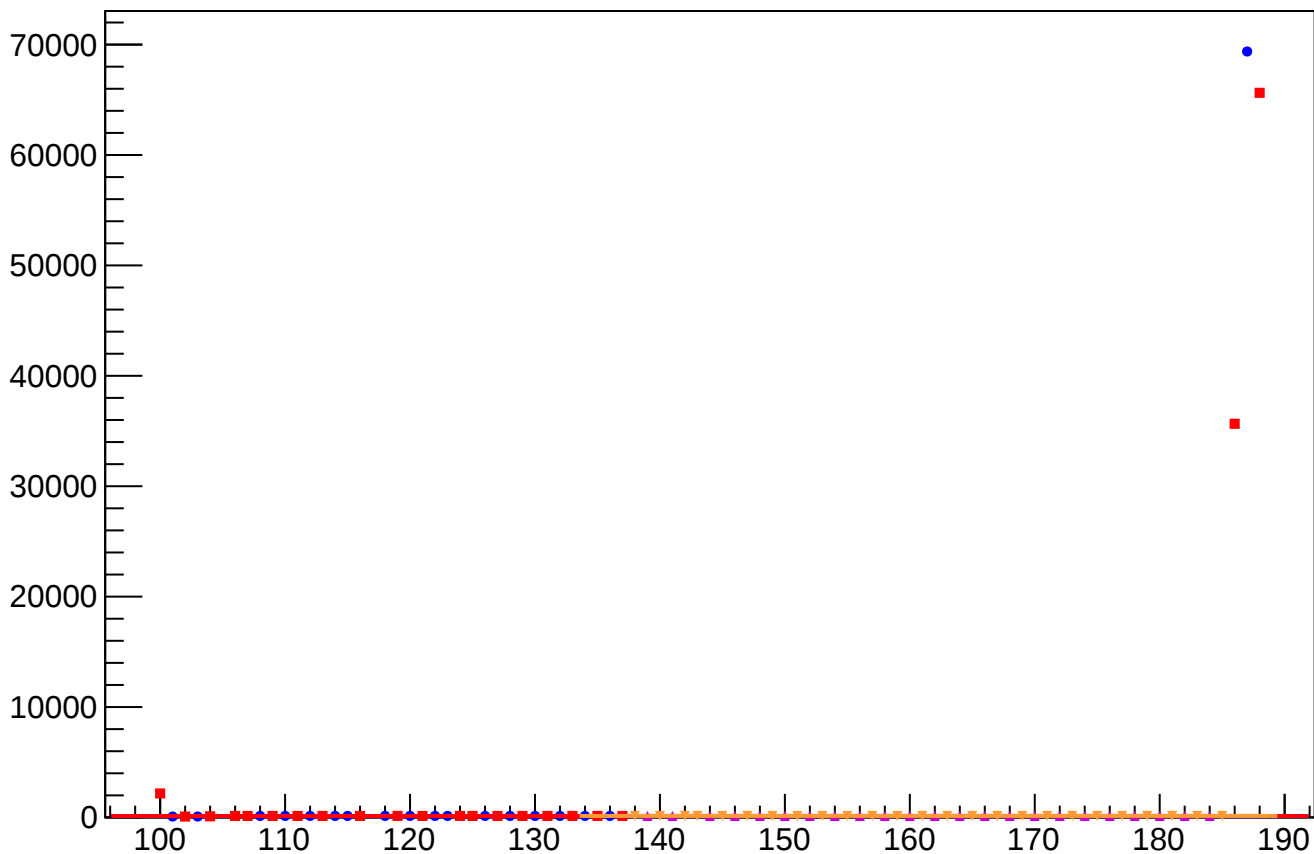
Right: 13.815 $\pm$ 33.456 χ^2 /NDF: 32.4/38

In: -51.937 $\pm$ 26.954 χ^2 /NDF:34.4/40

Out: 7.622 $\pm$ 26.631 χ^2 /NDF:29.6/45

All: -21.798 $\pm$ 18.944 χ^2 /NDF: 66.5/86

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.795 $\pm$ 0.033 χ^2 /NDF: 797615.1/17

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

Right Out: 124.749 $\pm$ 0.034 χ^2 /NDF: 2010551.3/20

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

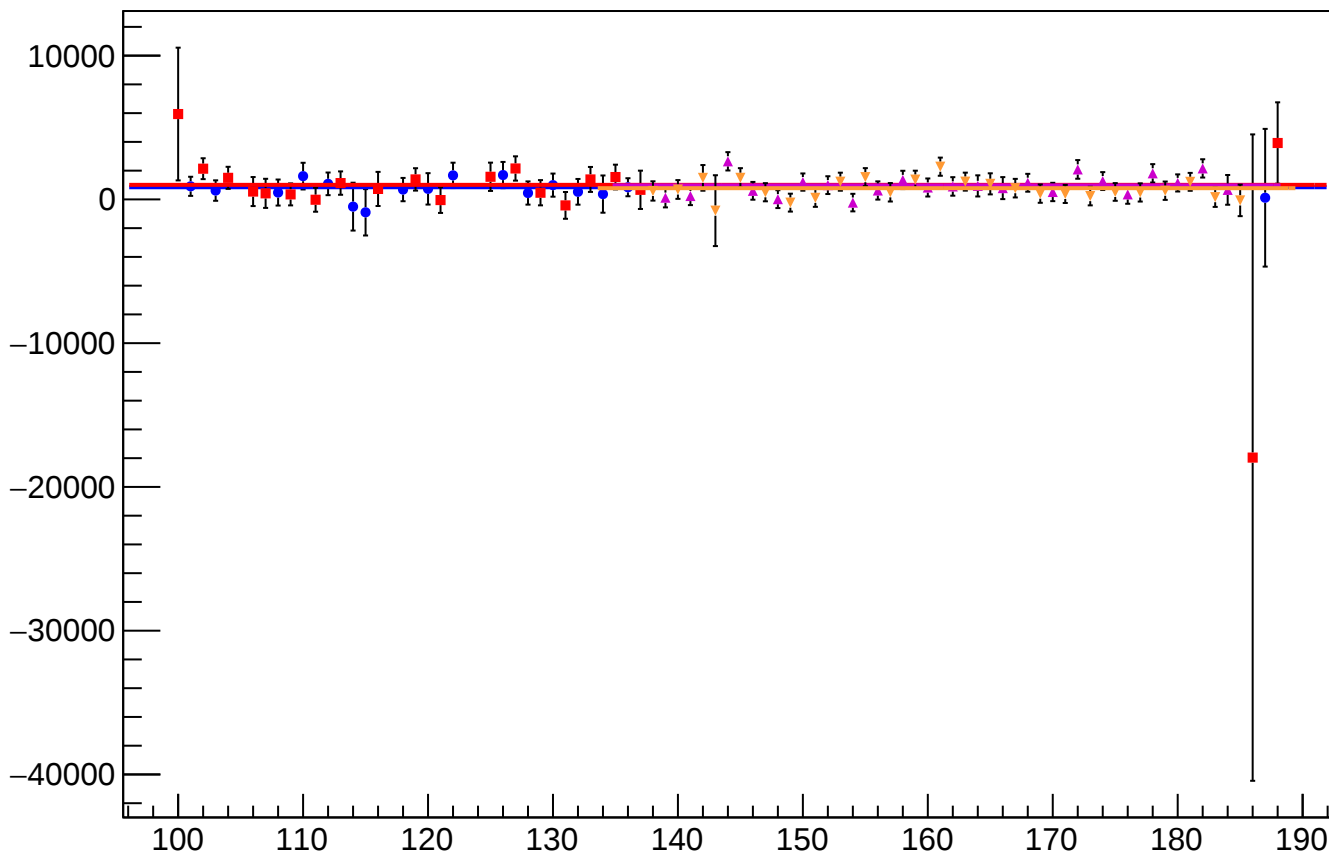
Right: 121.203 $\pm$ 0.024 χ^2 /NDF: 2829755.8/38

In: 131.208 $\pm$ 0.019 χ^2 /NDF: 1043054.0/40

Out: 133.813 $\pm$ 0.019 χ^2 /NDF: 2115342.7/45

All: 132.526 $\pm$ 0.013 χ^2 /NDF: 3167845.2/86

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 845.537 $\pm$ 216.445 χ^2 /NDF: 5.3/16

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

Right Out: 1011.946 $\pm$ 212.651 χ^2 /NDF: 15.8/19

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

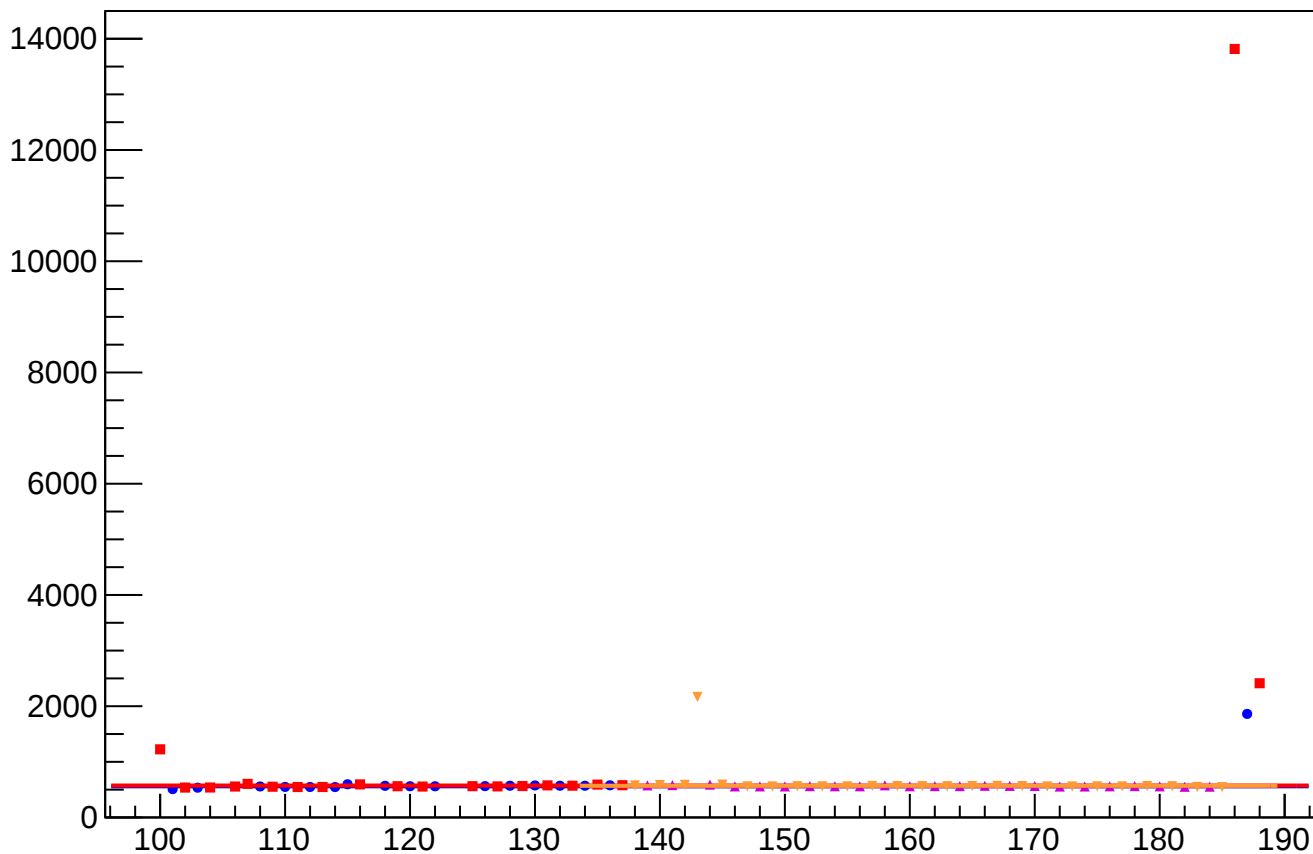
Right: 930.213 $\pm$ 151.691 χ^2 /NDF: 21.4/36

In: 938.337 $\pm$ 114.504 χ^2 /NDF:33.0/39

Out: 845.639 $\pm$ 113.282 χ^2 /NDF:36.3/44

All: 891.491 $\pm$ 80.531 χ^2 /NDF: 69.6/84

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 559.536+/-0.153 χ^2/NDF : 166661.7/16

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

Right Out: 574.100+/-0.150 χ^2/NDF : 1600375.5/19

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

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

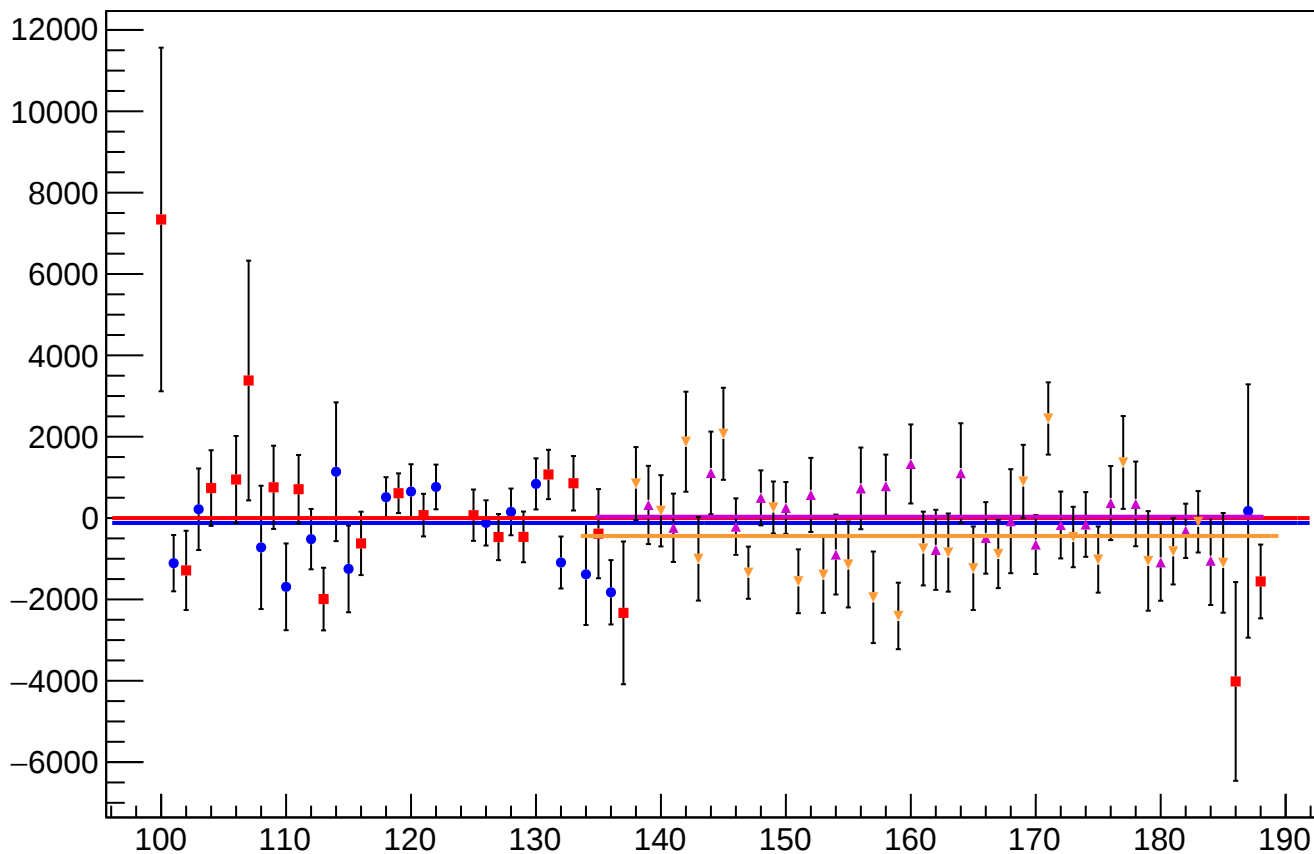
Right: 566.947+/-0.107 χ^2/NDF : 1771645.2/36

In: 563.026+/-0.081 χ^2/NDF : 176593.6/39

Out: 570.357+/-0.080 χ^2/NDF : 2454955.1/44

All: 566.731+/-0.057 χ^2/NDF : 2635691.7/84

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -120.786+/-180.484 χ^2/NDF : 22.6/16

Left Out: -440.022+/-177.884 χ^2/NDF : 43.5/24

Right Out: -0.253+/-175.471 χ^2/NDF : 31.2/19

Left In: 32.411+/-179.430 χ^2/NDF : 12.2/22

Left: -205.851+/-126.326 χ^2/NDF : 59.2/47

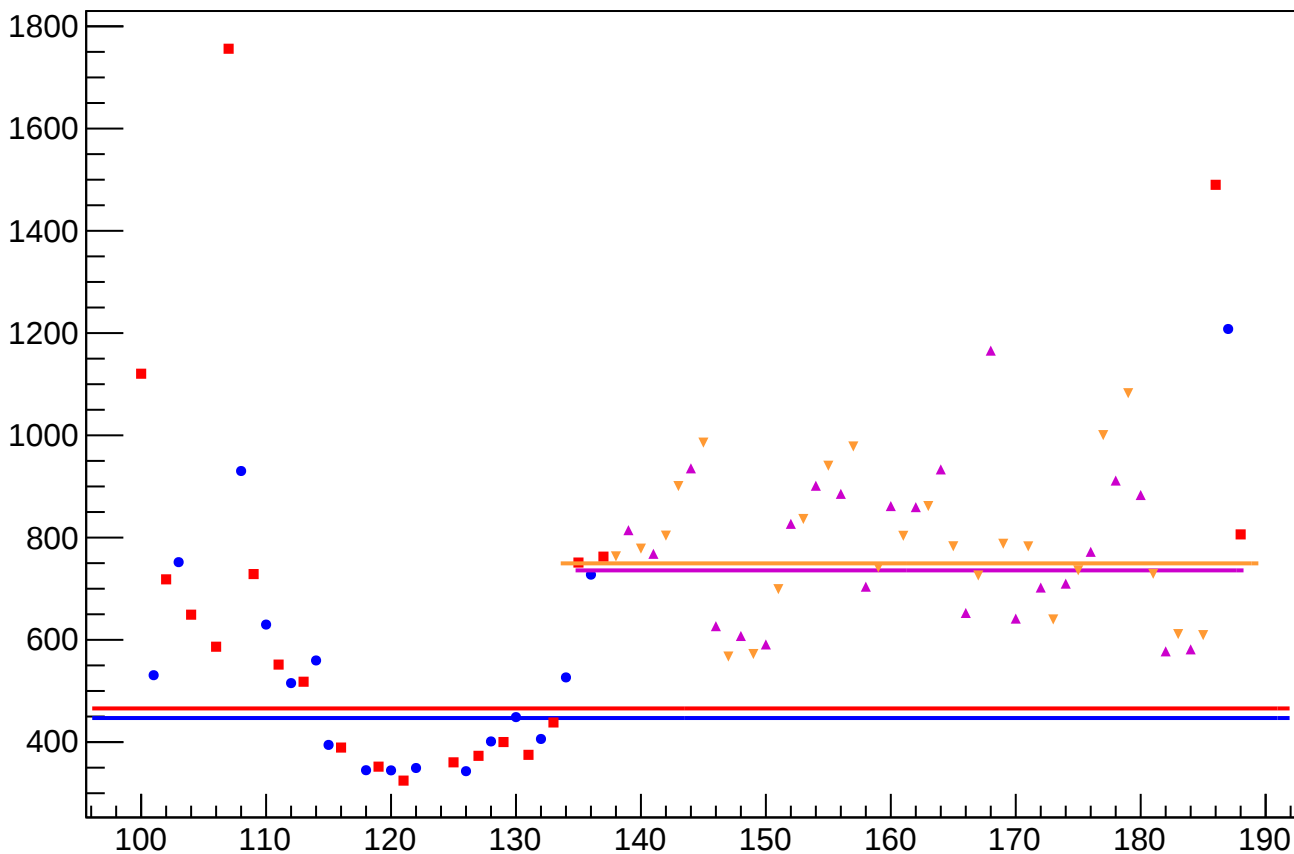
Right: -58.822+/-125.812 χ^2/NDF : 54.0/36

In: -43.739+/-127.247 χ^2/NDF : 35.1/39

Out: -217.135+/-124.921 χ^2/NDF : 77.8/44

All: -132.037+/-89.144 χ^2/NDF : 113.9/84

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 447.075+/-0.128 χ^2/NDF : 1172532.4/16

Left Out: 749.578+/-0.126 χ^2/NDF : 1053455.5/24

Right Out: 465.862+/-0.124 χ^2/NDF : 2110013.7/19

Left In: 735.850+/-0.127 χ^2/NDF : 1105405.5/22

Left: 742.773+/-0.089 χ^2/NDF : 2164765.1/47

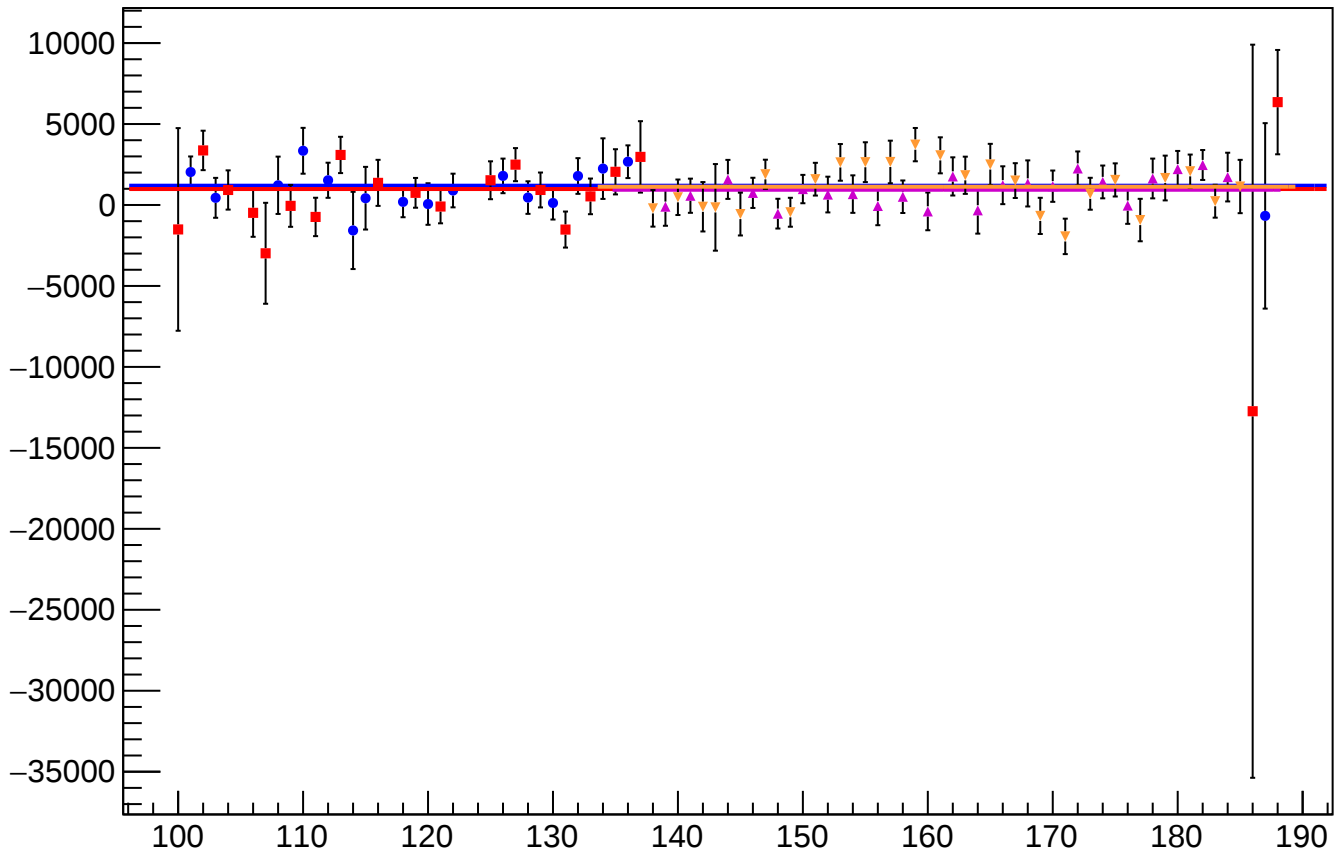
Right: 456.733+/-0.089 χ^2/NDF : 3293686.7/36

In: 592.308+/-0.090 χ^2/NDF : 4852941.3/39

Out: 605.783+/-0.088 χ^2/NDF : 5742068.8/44

All: 599.170+/-0.063 χ^2/NDF : 10606432.1/84

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1191.191 $\pm$ 295.703 χ^2 /NDF: 11.8/16

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

Right Out: 985.222 $\pm$ 292.978 χ^2 /NDF: 26.3/19

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

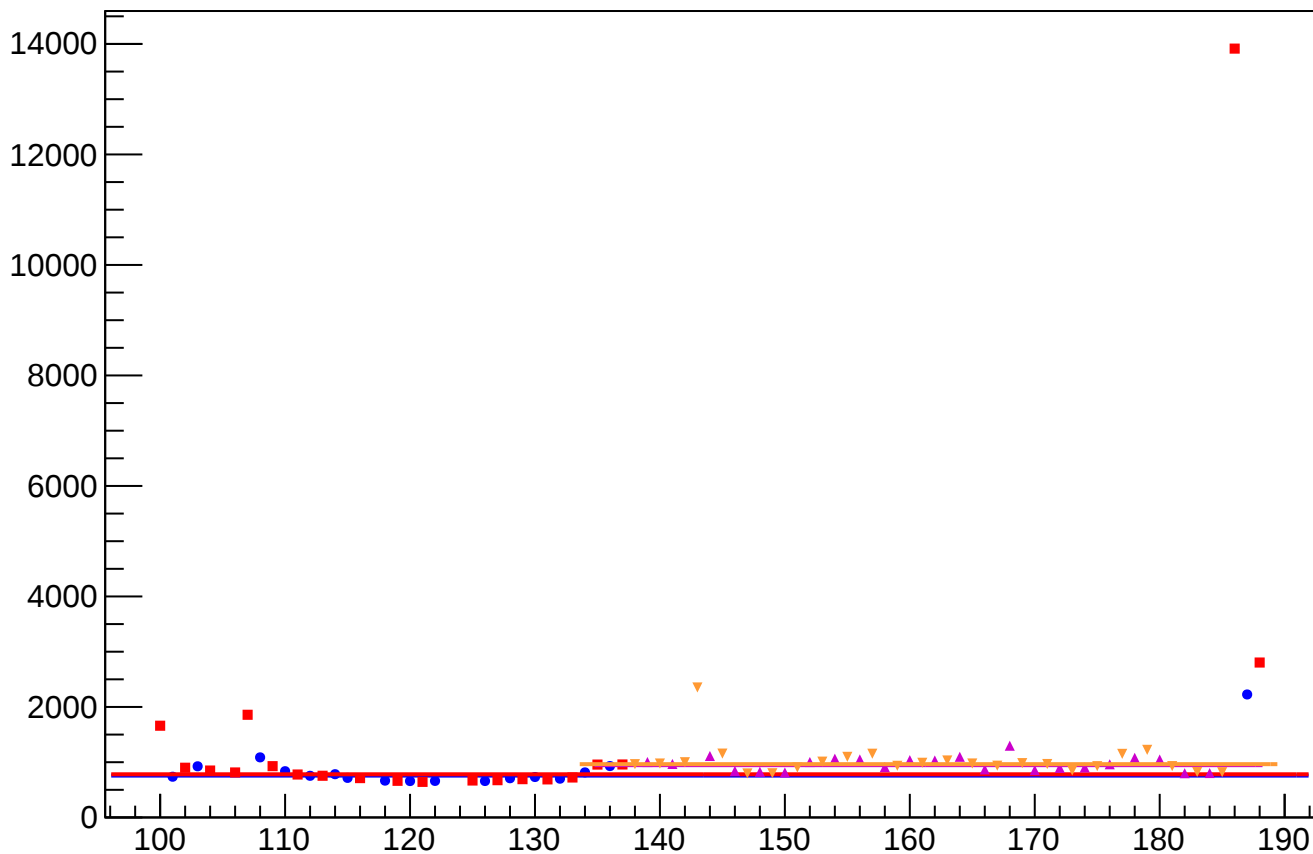
Right: 1087.253 $\pm$ 208.123 χ^2 /NDF: 38.3/36

In: 1034.889 $\pm$ 180.721 χ^2 /NDF:27.1/39

Out: 1074.520 $\pm$ 179.935 χ^2 /NDF:65.5/44

All: 1054.791 $\pm$ 127.510 χ^2 /NDF: 92.6/84

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 757.733+/-0.209 χ^2/NDF : 381941.3/16

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

Right Out: 781.402+/-0.207 χ^2/NDF : 1983555.8/19

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

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

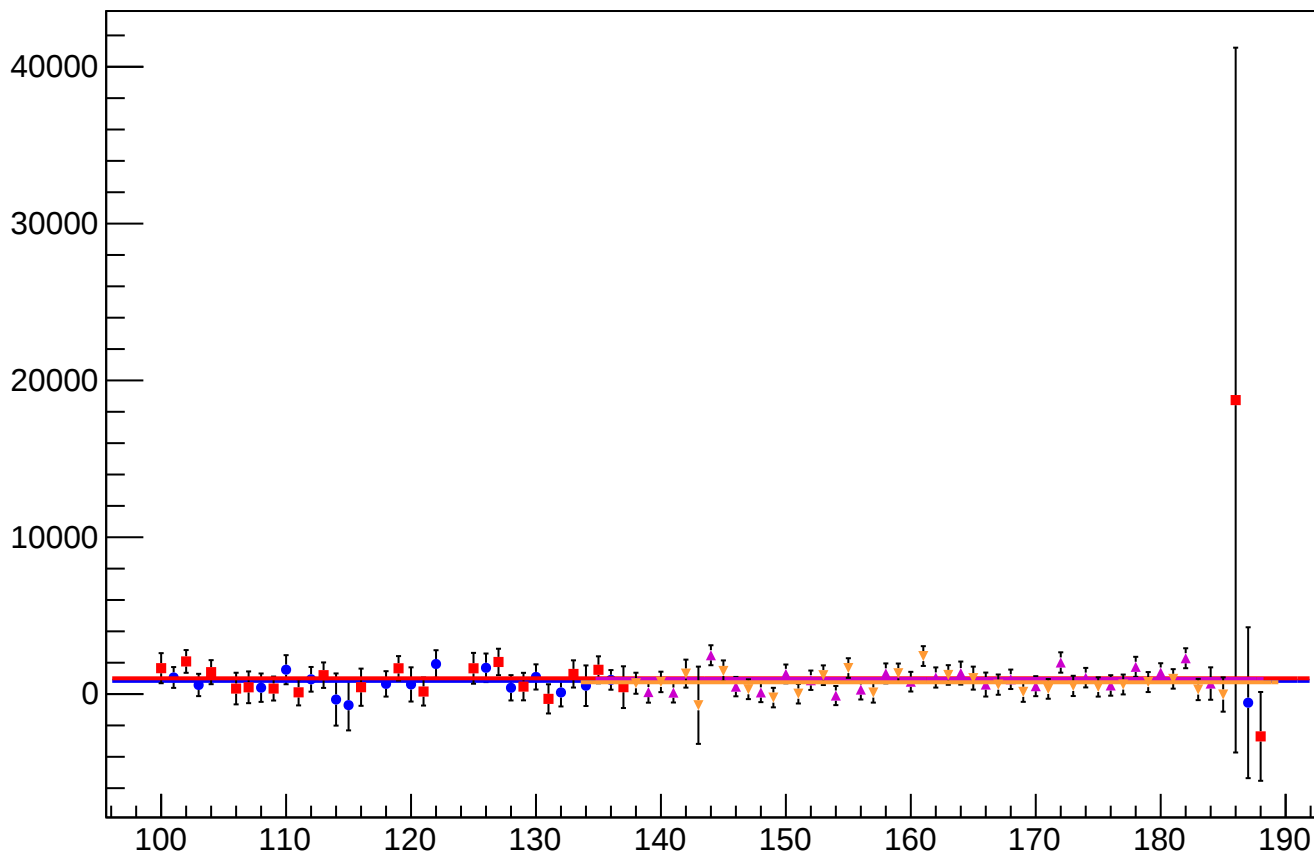
Right: 769.677+/-0.147 χ^2/NDF : 2371963.0/36

In: 876.039+/-0.128 χ^2/NDF : 1394304.8/39

Out: 895.433+/-0.127 χ^2/NDF : 3472783.5/44

All: 885.778+/-0.090 χ^2/NDF : 4878654.6/84

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 842.540 $\pm$ 216.279 χ^2 /NDF: 6.2/16

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

Right Out: 1004.558 $\pm$ 207.660 χ^2 /NDF: 14.7/19

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

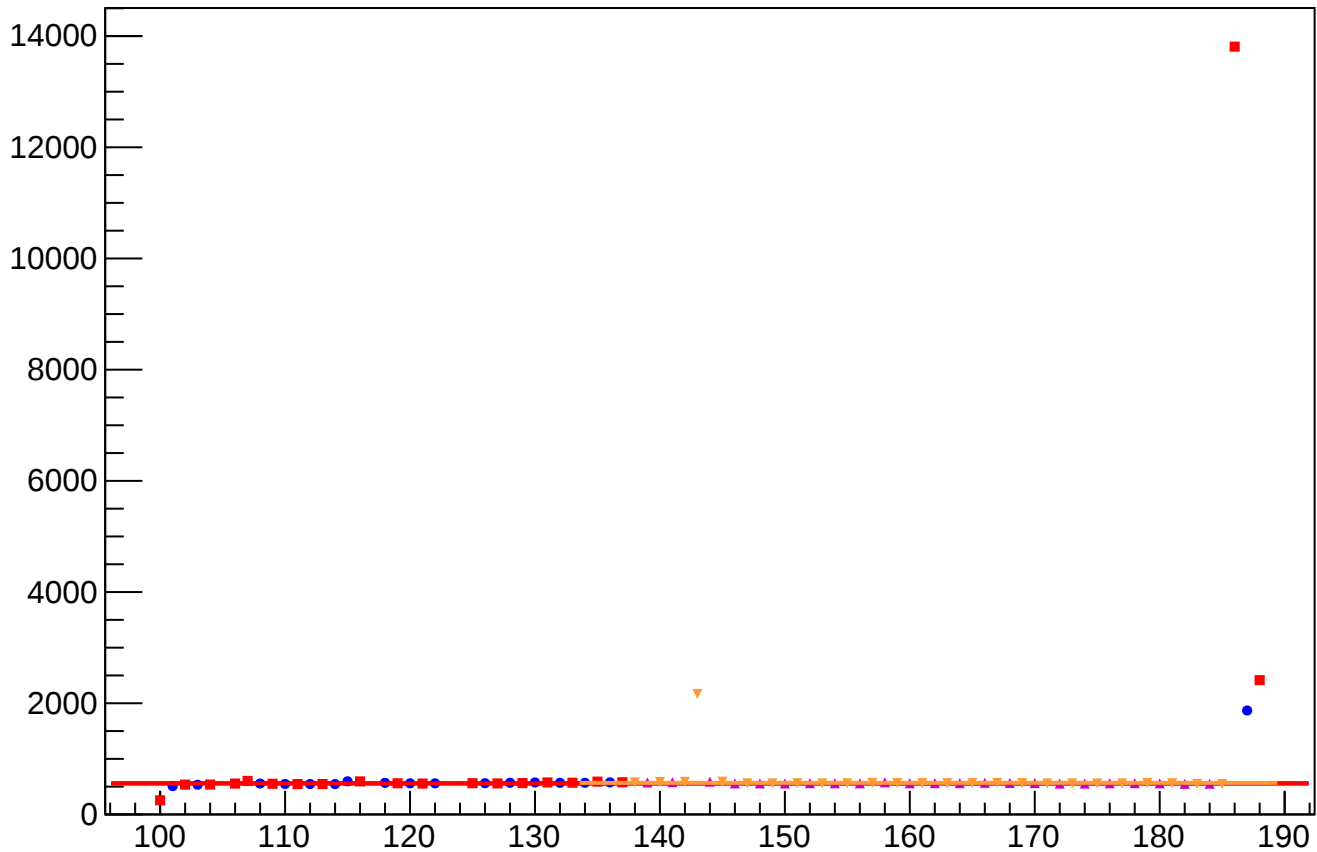
Right: 926.841 $\pm$ 149.792 χ^2 /NDF: 21.2/36

In: 926.060 $\pm$ 114.414 χ^2 /NDF: 33.2/39

Out: 826.972 $\pm$ 112.442 χ^2 /NDF: 37.1/44

All: 875.655 $\pm$ 80.197 χ^2 /NDF: 70.7/84

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 559.092 $\pm$ 0.153 χ^2 /NDF: 167344.9/16

Left Out: 568.400 $\pm$ 0.095 χ^2 /NDF: 854012.8/24

Right Out: 557.348 $\pm$ 0.147 χ^2 /NDF: 1770766.3/19

Left In: 563.934 $\pm$ 0.095 χ^2 /NDF: 9204.6/22

Left: 566.185 $\pm$ 0.067 χ^2 /NDF: 864323.4/47

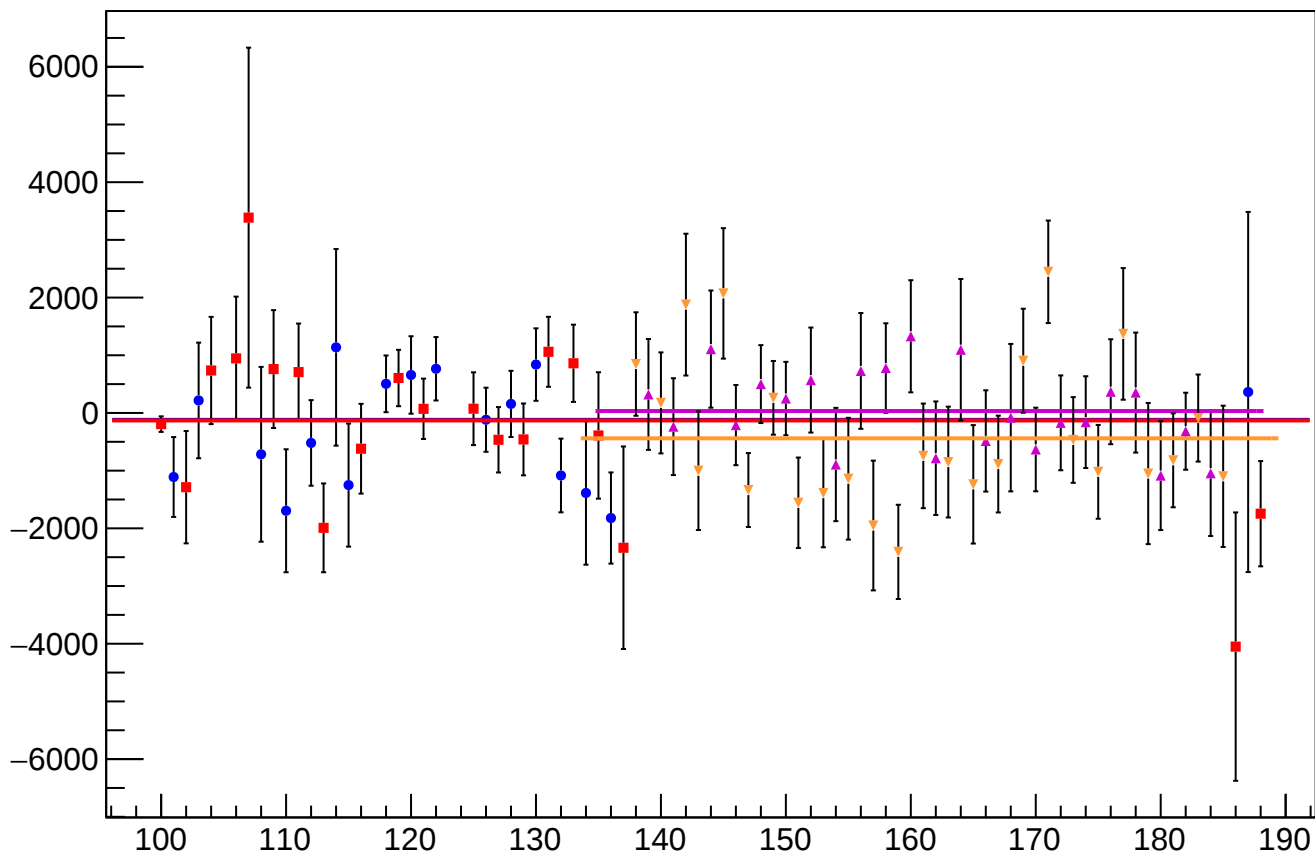
Right: 558.184 $\pm$ 0.106 χ^2 /NDF: 1938178.9/36

In: 562.579 $\pm$ 0.081 χ^2 /NDF: 177271.5/39

Out: 565.160 $\pm$ 0.080 χ^2 /NDF: 2628783.3/44

All: 563.892 $\pm$ 0.057 χ^2 /NDF: 2806572.4/84

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -119.589+/-180.397 χ^2/NDF : 22.5/16

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

Right Out: -129.818+/-106.993 χ^2/NDF : 29.7/19

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

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

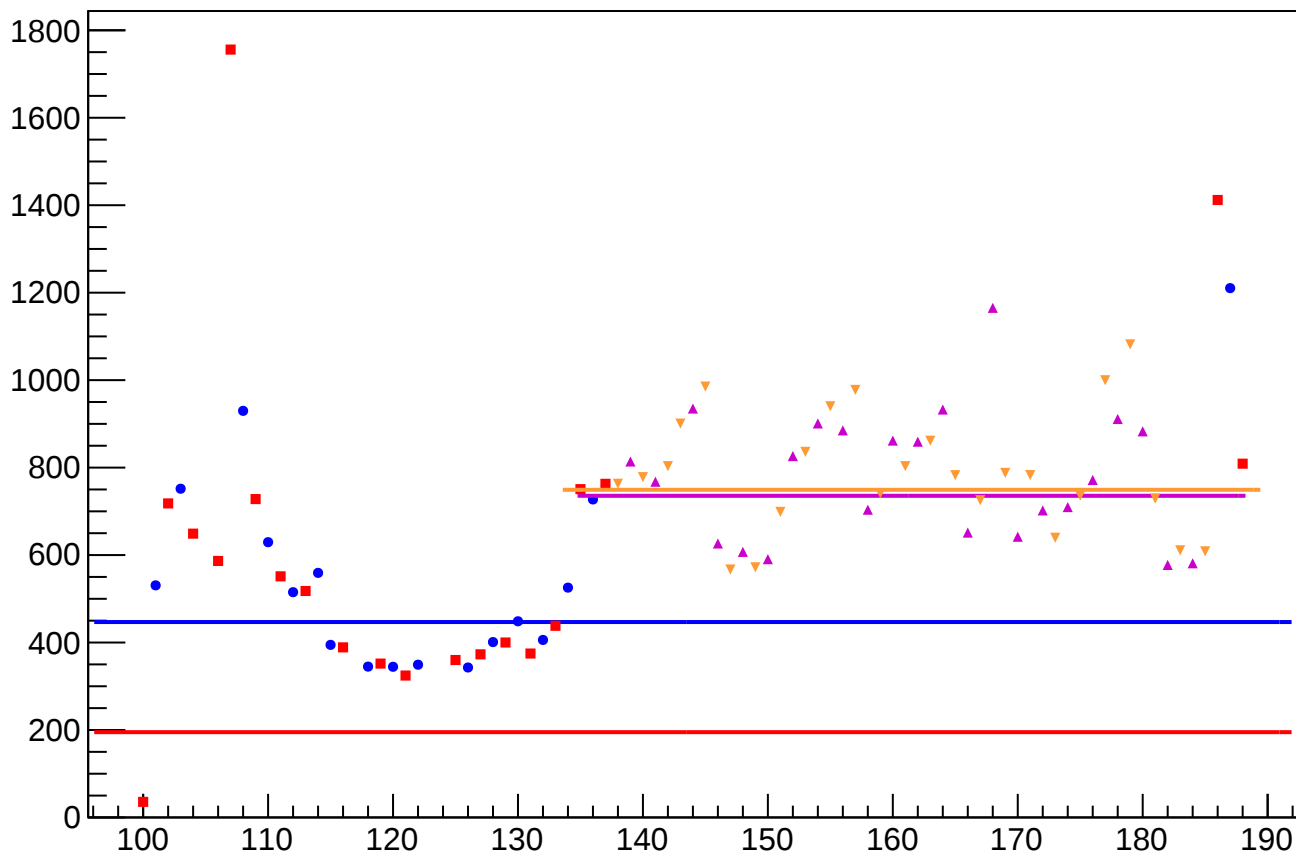
Right: -127.156+/-92.025 χ^2/NDF : 52.3/36

In: -42.689+/-127.190 χ^2/NDF : 35.0/39

Out: -212.183+/-91.676 χ^2/NDF : 75.6/44

All: -154.233+/-74.371 χ^2/NDF : 111.7/84

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 446.858+/-0.128 χ^2/NDF : 1172666.8/16

Left Out: 749.270+/-0.126 χ^2/NDF : 1054352.9/24

Right Out: 195.033+/-0.076 χ^2/NDF : 9547198.1/19

Left In: 735.543+/-0.127 χ^2/NDF : 1105222.3/22

Left: 742.466+/-0.089 χ^2/NDF : 2165483.4/47

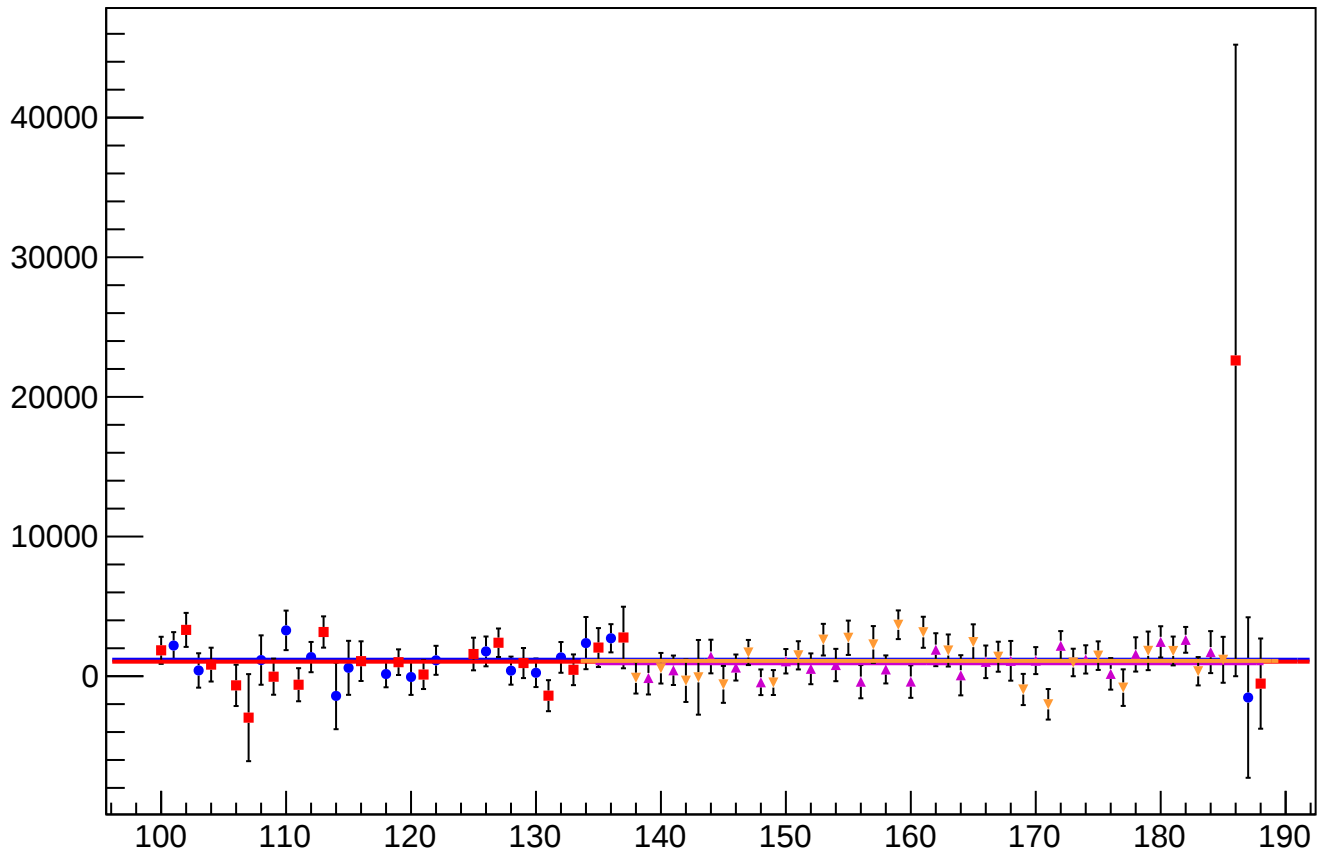
Right: 260.564+/-0.065 χ^2/NDF : 13603014.9/36

In: 592.036+/-0.090 χ^2/NDF : 4853604.7/39

Out: 342.365+/-0.065 χ^2/NDF : 24867918.0/44

All: 427.727+/-0.053 χ^2/NDF : 34793221.9/84

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1179.782 $\pm$ 295.506 χ^2 /NDF: 11.8/16

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

Right Out: 1039.066 $\pm$ 280.551 χ^2 /NDF: 23.6/19

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

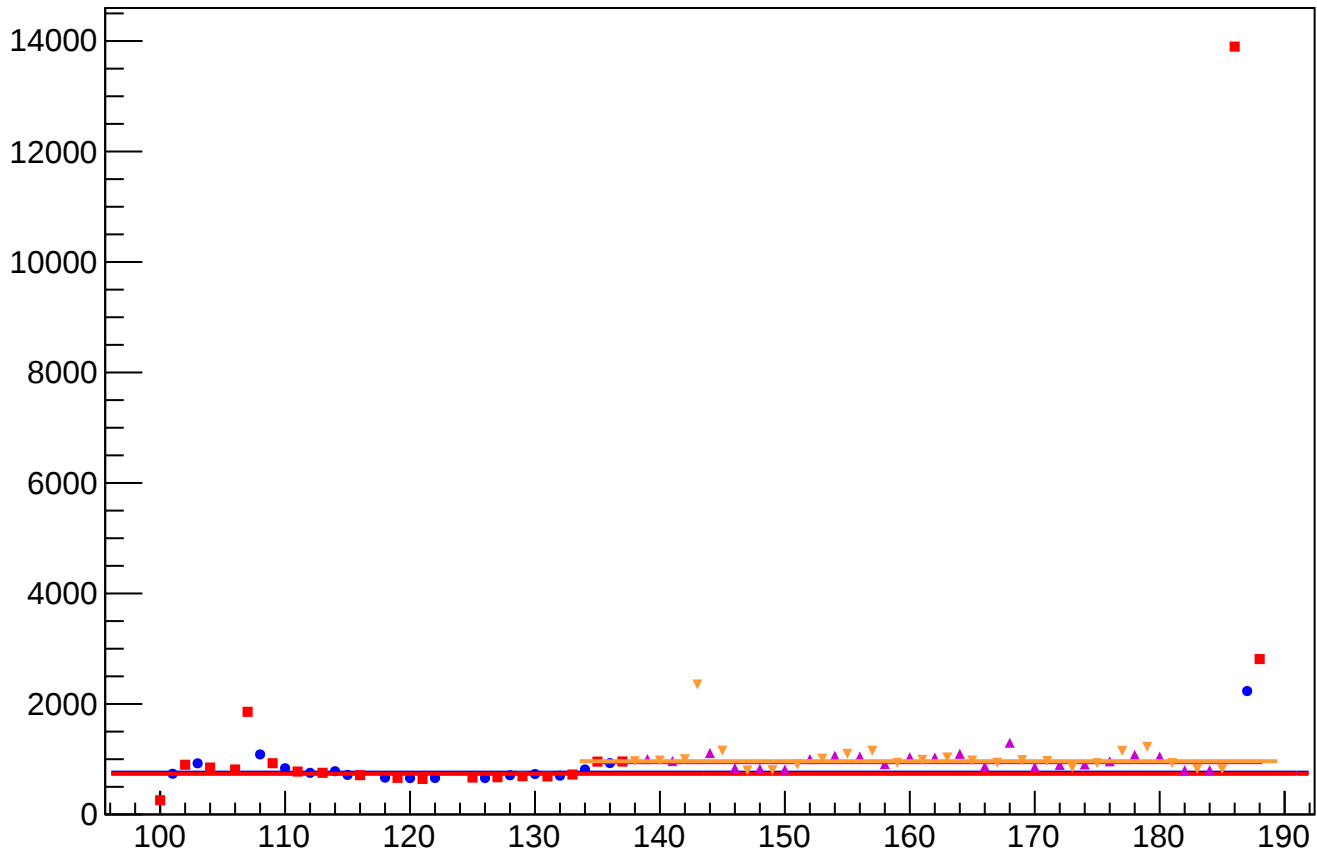
Right: 1105.773 $\pm$ 203.461 χ^2 /NDF: 35.5/36

In: 1020.979 $\pm$ 180.612 χ^2 /NDF: 27.4/39

Out: 1073.690 $\pm$ 176.876 χ^2 /NDF: 62.1/44

All: 1047.885 $\pm$ 126.371 χ^2 /NDF: 89.5/84

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 757.204+/-0.209 χ^2/NDF : 382685.1/16

Left Out: 963.933+/-0.161 χ^2/NDF : 1003095.2/24

Right Out: 735.157+/-0.198 χ^2/NDF : 2478446.8/19

Left In: 946.041+/-0.161 χ^2/NDF : 501442.7/22

Left: 955.000+/-0.114 χ^2/NDF : 1510694.5/47

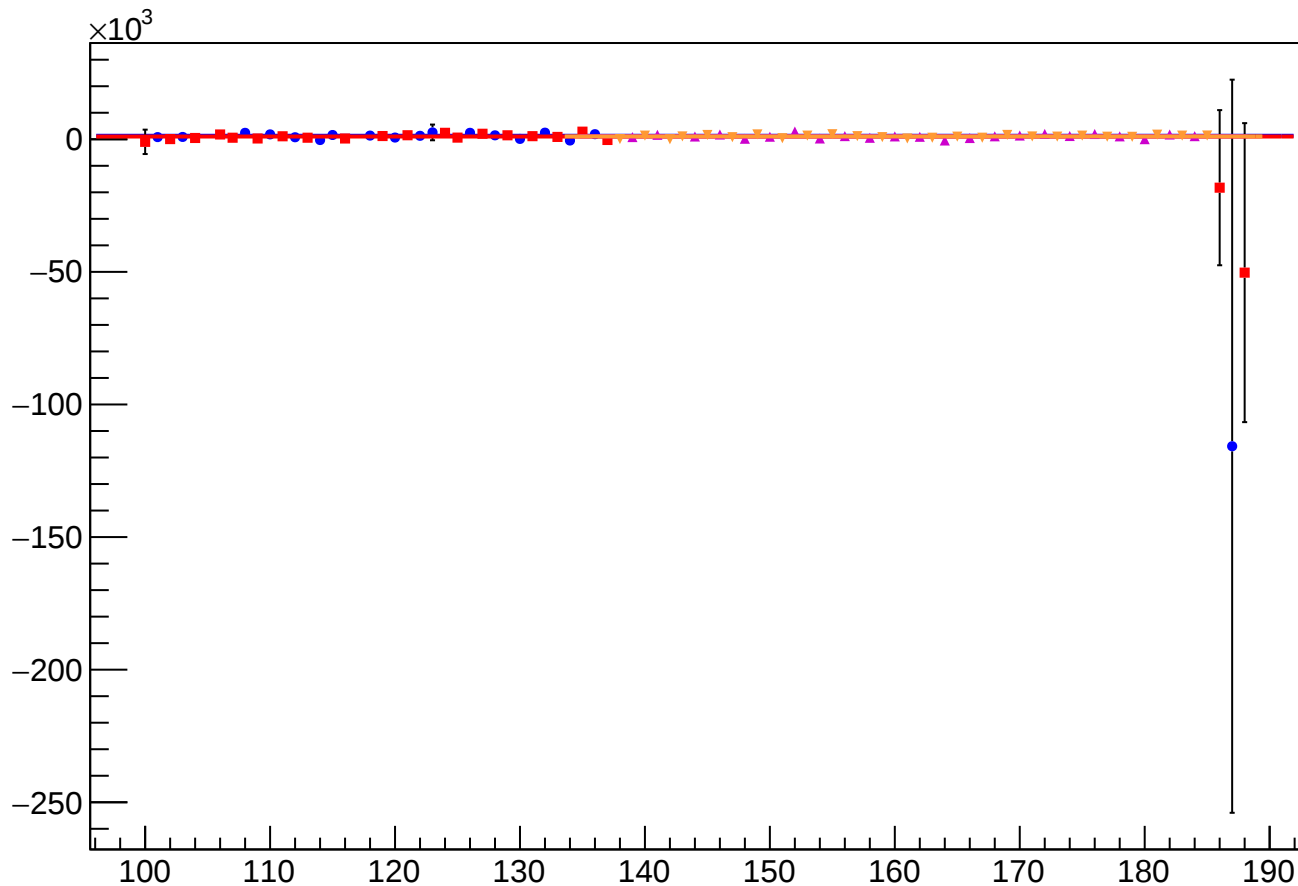
Right: 745.609+/-0.144 χ^2/NDF : 2866987.1/36

In: 875.499+/-0.128 χ^2/NDF : 1395748.3/39

Out: 872.999+/-0.125 χ^2/NDF : 4282849.4/44

All: 874.223+/-0.089 χ^2/NDF : 5678793.2/84

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1323.759+/-218.600 χ^2/NDF : 13.5/17

Left Out: 1073.626+/-129.690 χ^2/NDF :15.1/24

Right Out: 1038.760+/-212.072 χ^2/NDF : 14.8/20

Left In: 1123.857+/-133.163 χ^2/NDF :30.0/22

Left: 1098.077+/-92.908 χ^2/NDF : 45.2/47

Right: 1176.941+/-152.213 χ^2/NDF : 29.1/38

In: 1177.960+/-113.724 χ^2/NDF :44.1/40

Out: 1064.136+/-110.641 χ^2/NDF :29.9/45

All: 1119.484+/-79.303 χ^2/NDF : 74.6/86

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 563.612+/-0.155 χ^2/NDF : 140769.6/17

Left Out: 557.534+/-0.092 χ^2/NDF : 14752.8/24

Right Out: 566.706+/-0.150 χ^2/NDF : 1425299.1/20

Left In: 556.969+/-0.094 χ^2/NDF : 11209.7/22

Left: 557.259+/-0.066 χ^2/NDF : 25980.9/47

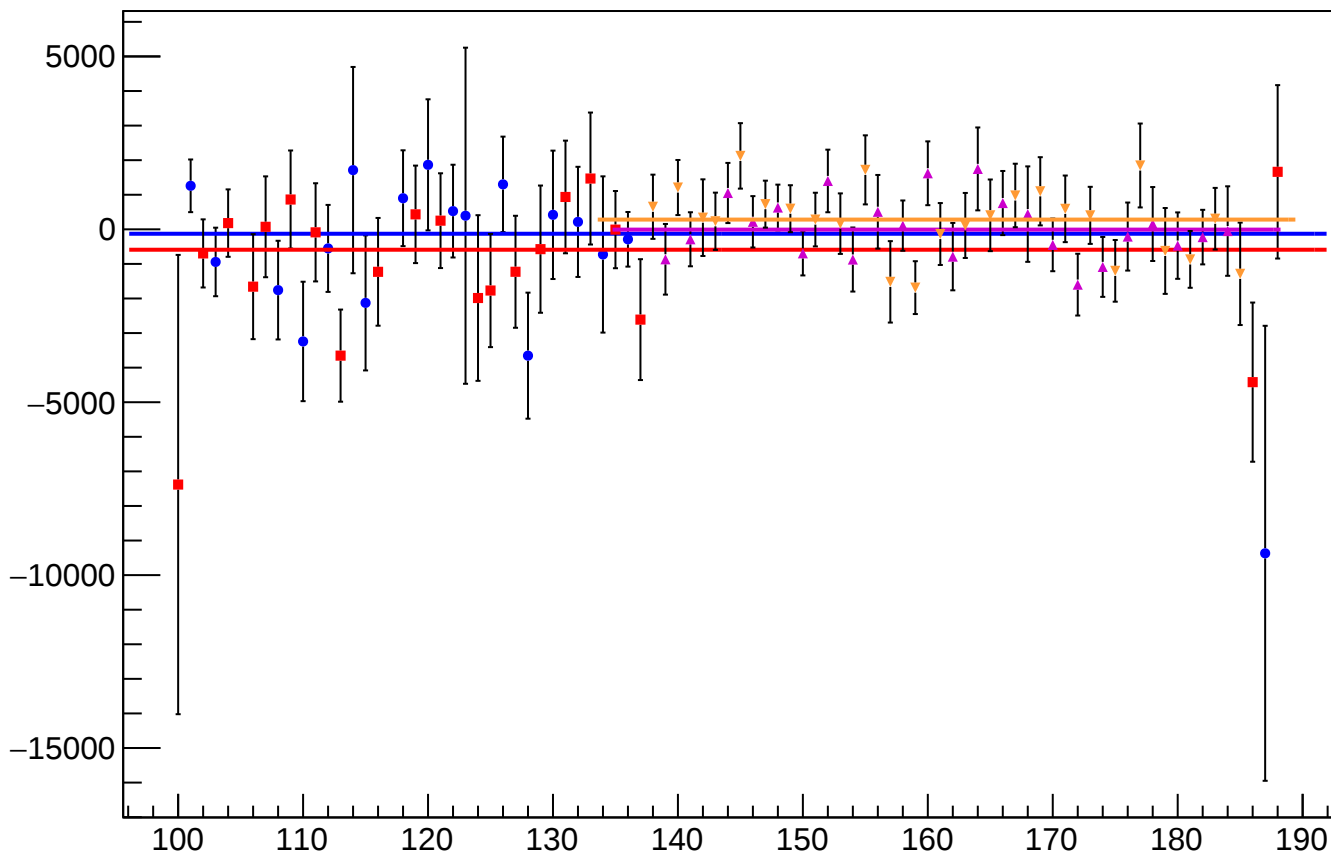
Right: 565.206+/-0.108 χ^2/NDF : 1566275.2/38

In: 558.767+/-0.080 χ^2/NDF : 153326.3/40

Out: 560.031+/-0.078 χ^2/NDF : 1442774.5/45

All: 559.416+/-0.056 χ^2/NDF : 1596227.7/86

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -127.818+/-327.859 χ^2/NDF : 19.0/17

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

Right Out: -590.022+/-326.741 χ^2/NDF : 18.2/20

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

Left: 139.190+/-128.612 χ^2/NDF : 48.2/47

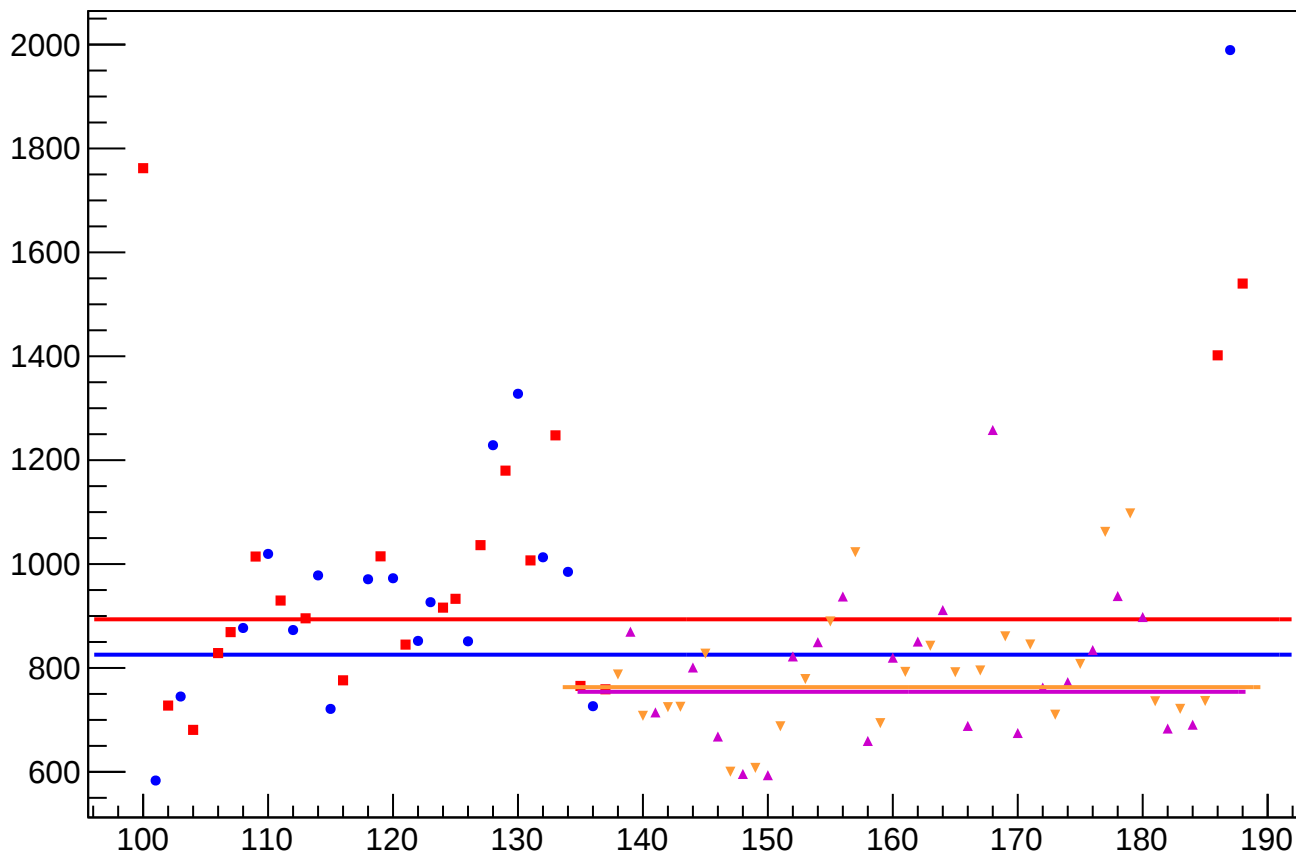
Right: -359.709+/-231.435 χ^2/NDF : 38.2/38

In: -36.713+/-160.047 χ^2/NDF : 39.3/40

Out: 78.142+/-157.943 χ^2/NDF : 50.3/45

All: 21.474+/-112.419 χ^2/NDF : 89.9/86

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 825.561 ± 0.232 $\chi^2/\text{NDF}: 669472.9/17$

Left Out: 763.085 ± 0.128 $\chi^2/\text{NDF}: 753700.1/24$

Right Out: 893.652 ± 0.231 $\chi^2/\text{NDF}: 647526.8/20$

Left In: 754.099 ± 0.130 $\chi^2/\text{NDF}: 931829.3/22$

Left: 758.665 ± 0.091 $\chi^2/\text{NDF}: 1687969.6/47$

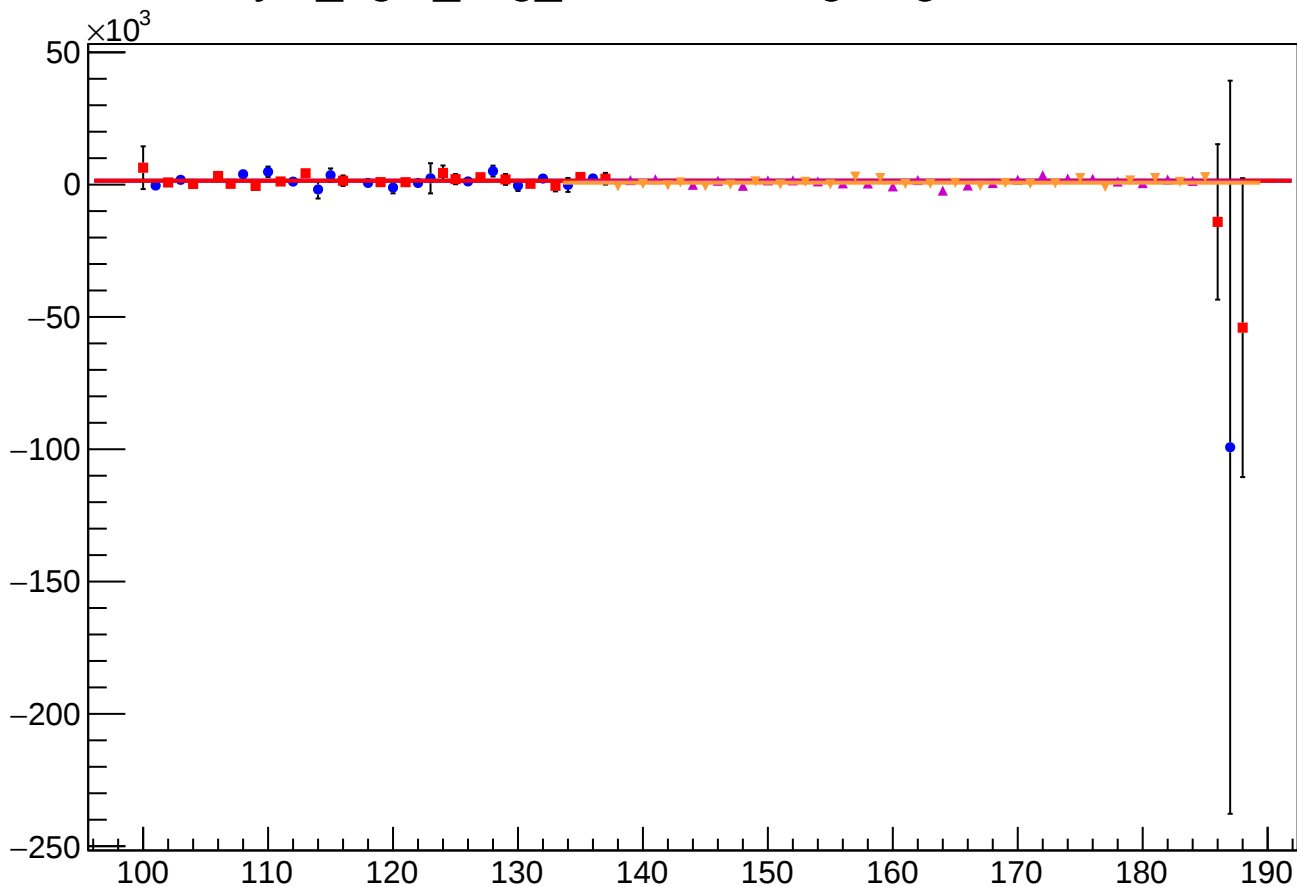
Right: 859.723 ± 0.164 $\chi^2/\text{NDF}: 1360279.4/38$

In: 771.128 ± 0.113 $\chi^2/\text{NDF}: 1673678.9/40$

Out: 793.594 ± 0.112 $\chi^2/\text{NDF}: 1645970.3/45$

All: 782.510 ± 0.079 $\chi^2/\text{NDF}: 3339613.5/86$

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1497.116 $\pm$ 402.665 χ^2 /NDF: 17.6/17

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

Right Out: 1482.062 $\pm$ 400.671 χ^2 /NDF: 13.3/20

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

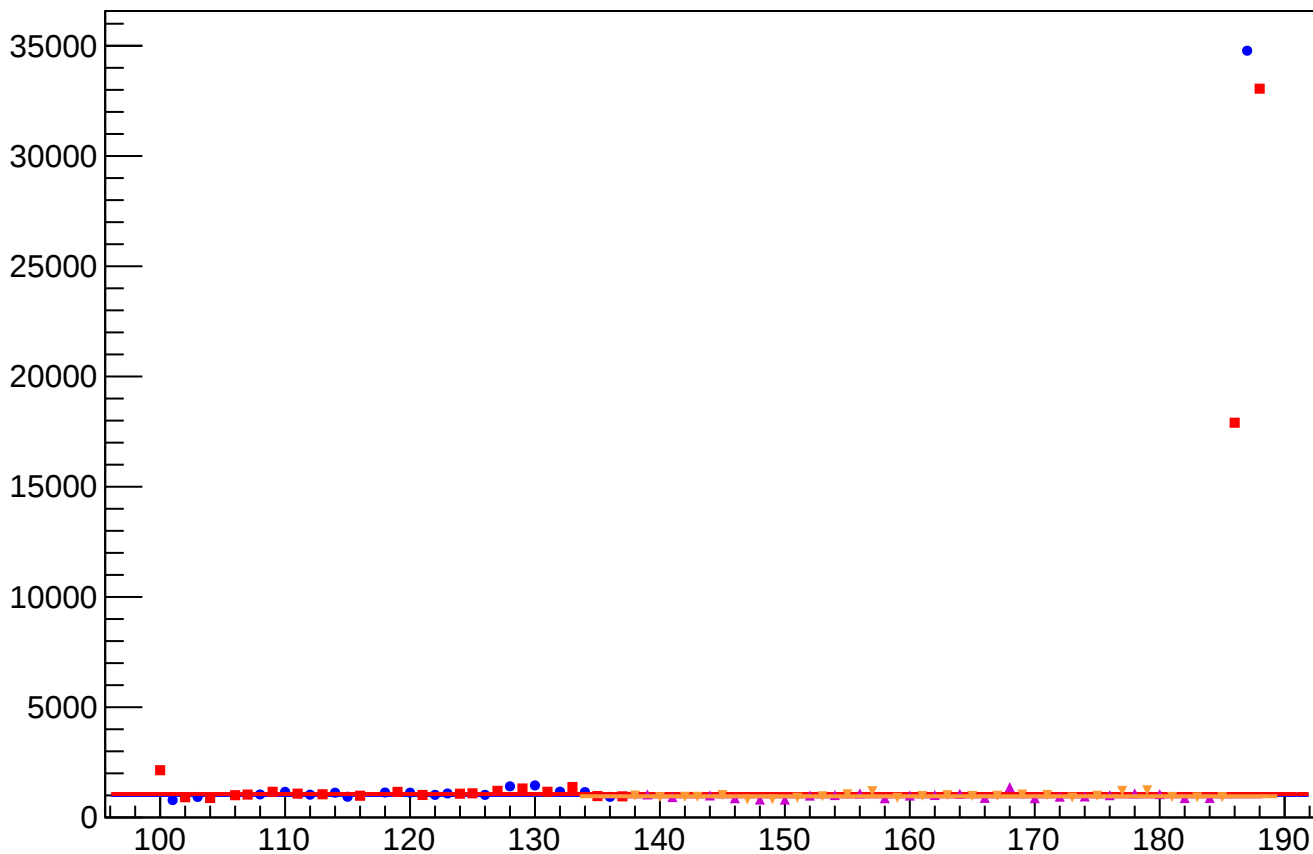
Right: 1489.552 $\pm$ 284.020 χ^2 /NDF: 30.9/38

In: 1216.269 $\pm$ 199.759 χ^2 /NDF: 43.7/40

Out: 918.276 $\pm$ 196.538 χ^2 /NDF: 37.4/45

All: 1064.851 $\pm$ 140.098 χ^2 /NDF: 82.2/86

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1022.311+/-0.285 χ^2/NDF : 461368.6/17

Left Out: 962.256+/-0.159 χ^2/NDF : 362937.6/24

Right Out: 1062.691+/-0.283 χ^2/NDF : 1549673.2/20

Left In: 954.643+/-0.163 χ^2/NDF : 443395.0/22

Left: 958.525+/-0.114 χ^2/NDF : 807449.1/47

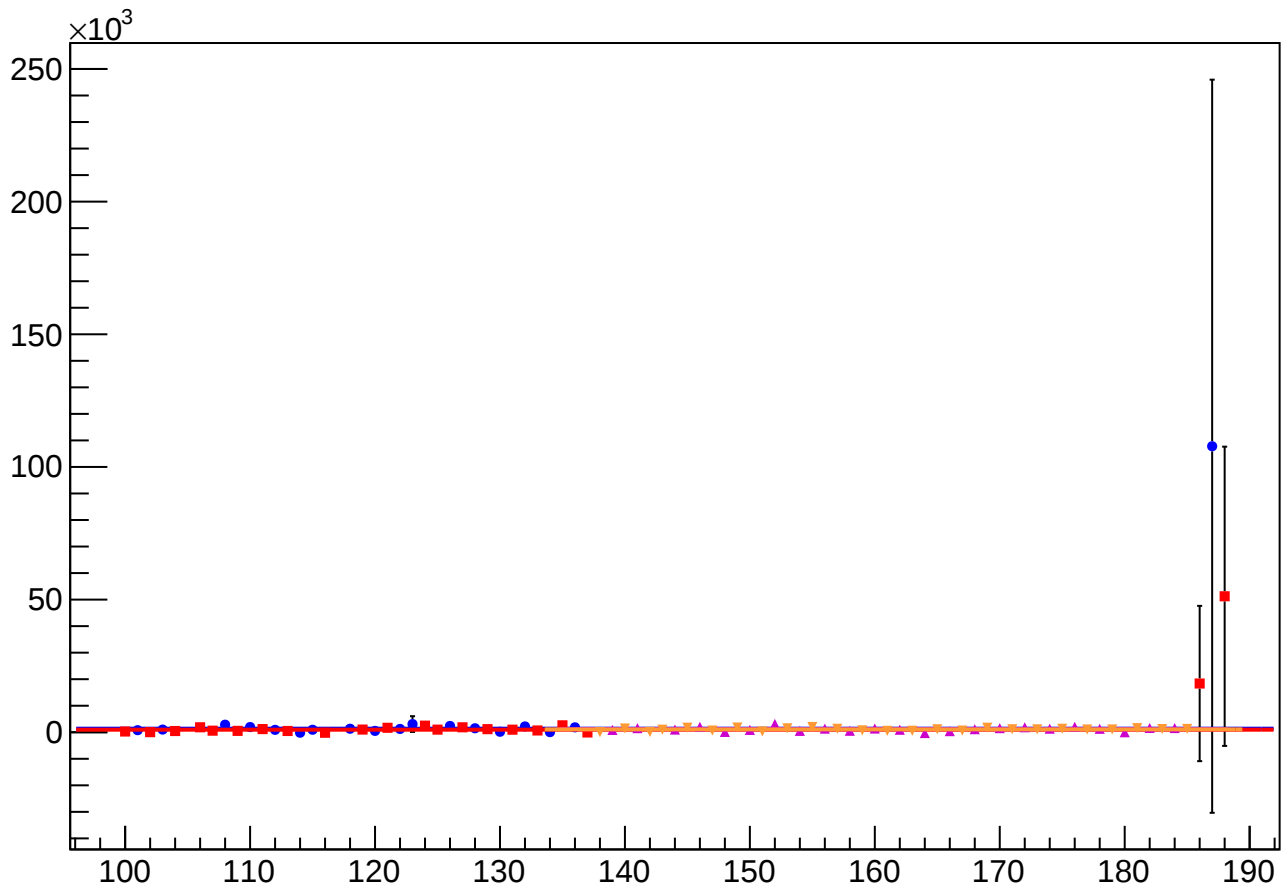
Right: 1042.601+/-0.201 χ^2/NDF : 2021147.9/38

In: 971.297+/-0.141 χ^2/NDF : 947344.5/40

Out: 986.421+/-0.139 χ^2/NDF : 2008042.1/45

All: 978.982+/-0.099 χ^2/NDF : 2961212.5/86

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1345.668 $\pm$ 218.854 χ^2/NDF : 12.6/17

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

Right Out: 967.011 $\pm$ 208.607 χ^2/NDF : 13.4/20

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: 1147.268 $\pm$ 151.000 χ^2/NDF : 27.5/38

In: 1231.751 $\pm$ 113.853 χ^2/NDF : 45.1/40

Out: 1053.954 $\pm$ 110.221 χ^2/NDF : 28.5/45

All: 1139.971 $\pm$ 79.191 χ^2/NDF : 74.9/86

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 564.264+/-0.155 χ^2/NDF : 140867.6/17

Left Out: 558.099+/-0.092 χ^2/NDF : 14785.2/24

Right Out: 555.797+/-0.148 χ^2/NDF : 1509831.2/20

Left In: 557.597+/-0.094 χ^2/NDF : 11276.8/22

Left: 557.854+/-0.066 χ^2/NDF : 26076.6/47

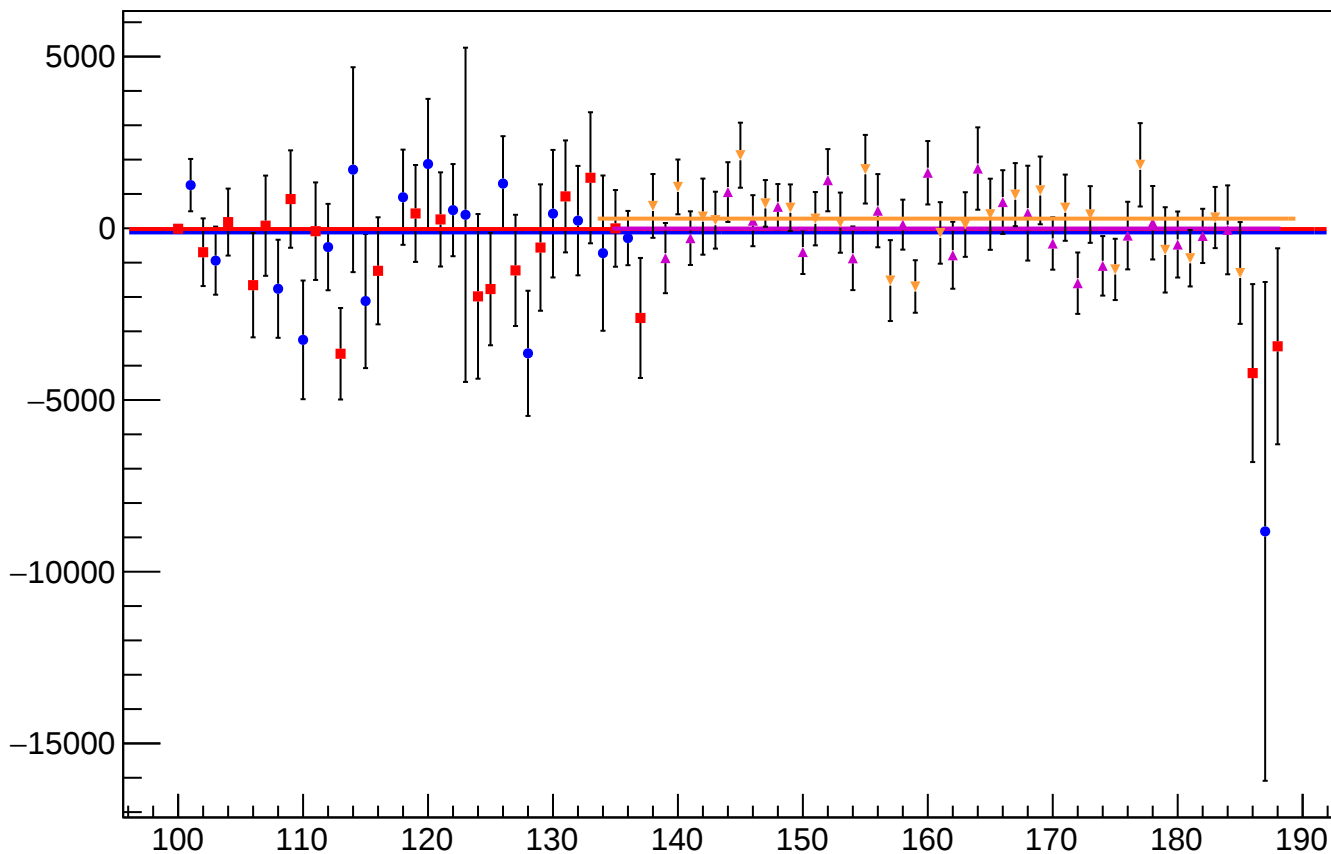
Right: 559.828+/-0.107 χ^2/NDF : 1652267.6/38

In: 559.401+/-0.081 χ^2/NDF : 153498.5/40

Out: 557.456+/-0.078 χ^2/NDF : 1524792.0/45

All: 558.397+/-0.056 χ^2/NDF : 1678591.8/86

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -120.338 $\pm$ 328.031 χ^2 /NDF: 18.5/17

Left Out: 281.402 $\pm$ 180.478 χ^2 /NDF:26.8/24

Right Out: -21.664 $\pm$ 38.947 χ^2 /NDF: 19.9/20

Left In: -7.306 $\pm$ 183.473 χ^2 /NDF:20.1/22

Left: 139.424 $\pm$ 128.663 χ^2 /NDF: 48.2/47

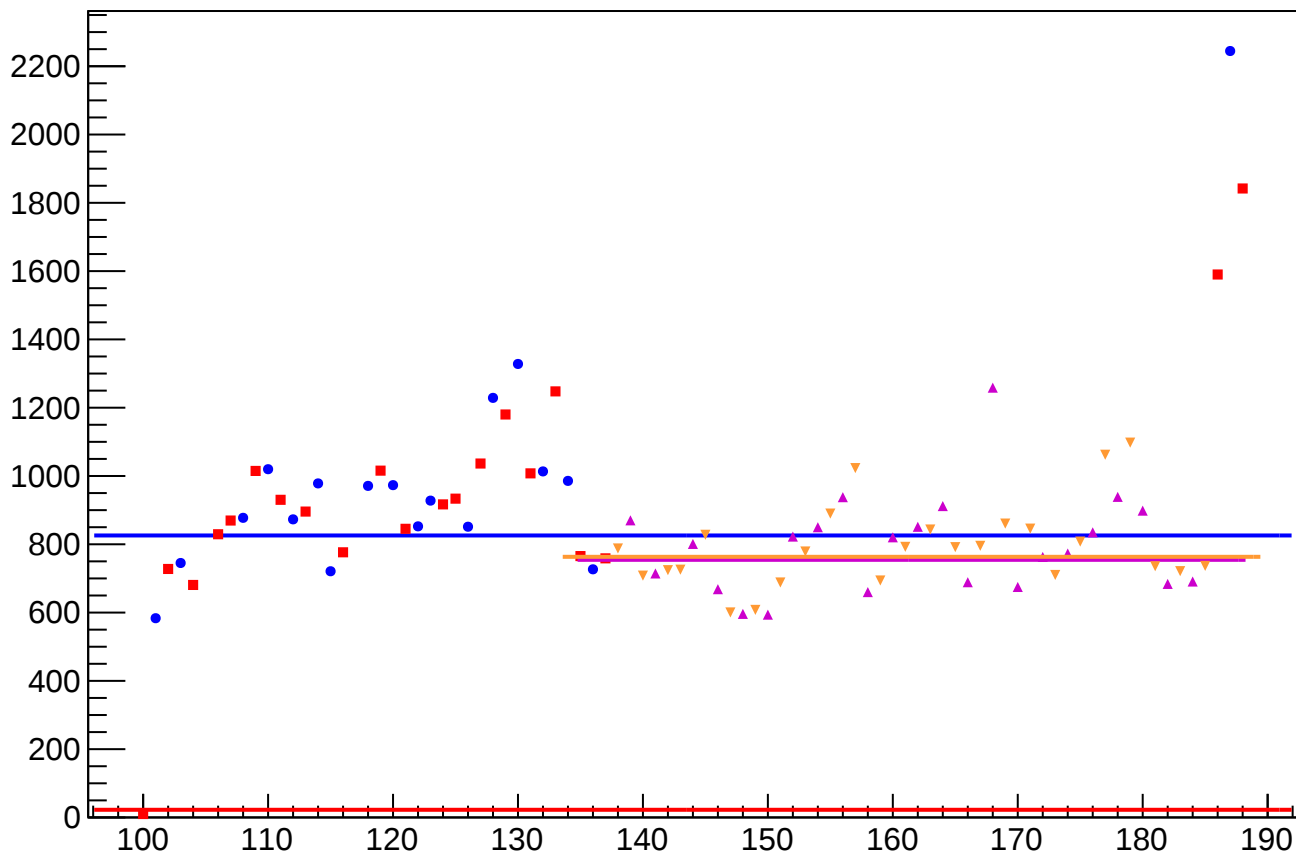
Right: -23.035 $\pm$ 38.675 χ^2 /NDF: 38.5/38

In: -34.240 $\pm$ 160.128 χ^2 /NDF:38.7/40

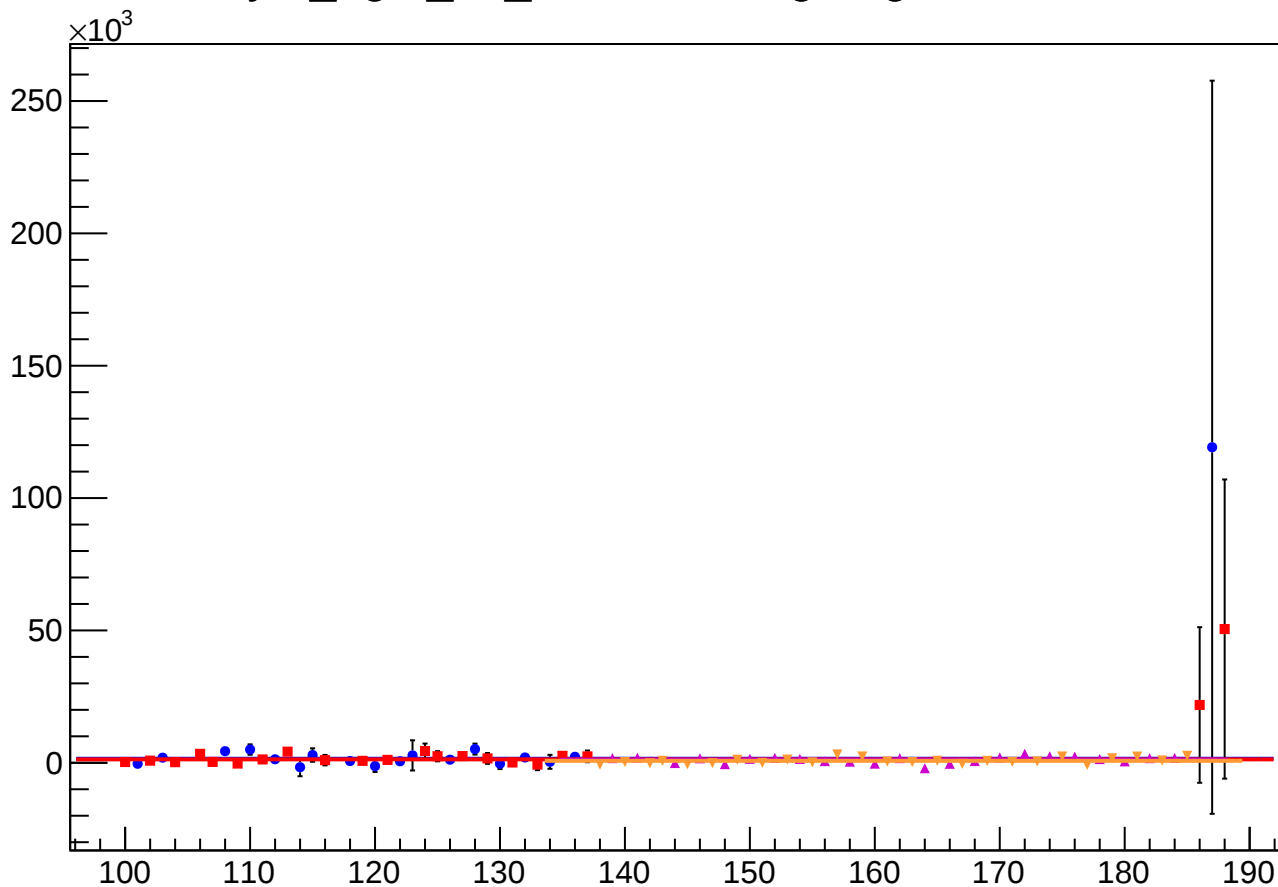
Out: -8.178 $\pm$ 38.071 χ^2 /NDF:49.4/45

All: -9.573 $\pm$ 37.038 χ^2 /NDF: 88.1/86

asym_right_dd_correction_rms vs Slug, Sign Corrected



asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1520.481 $\pm$ 402.889 χ^2/NDF : 18.5/17

Left Out: 742.825 $\pm$ 225.658 χ^2/NDF : 20.2/24

Right Out: 1293.099 $\pm$ 376.640 χ^2/NDF : 13.6/20

Left In: 1176.288 $\pm$ 230.229 χ^2/NDF : 24.2/22

Left: 955.211 $\pm$ 161.156 χ^2/NDF : 46.3/47

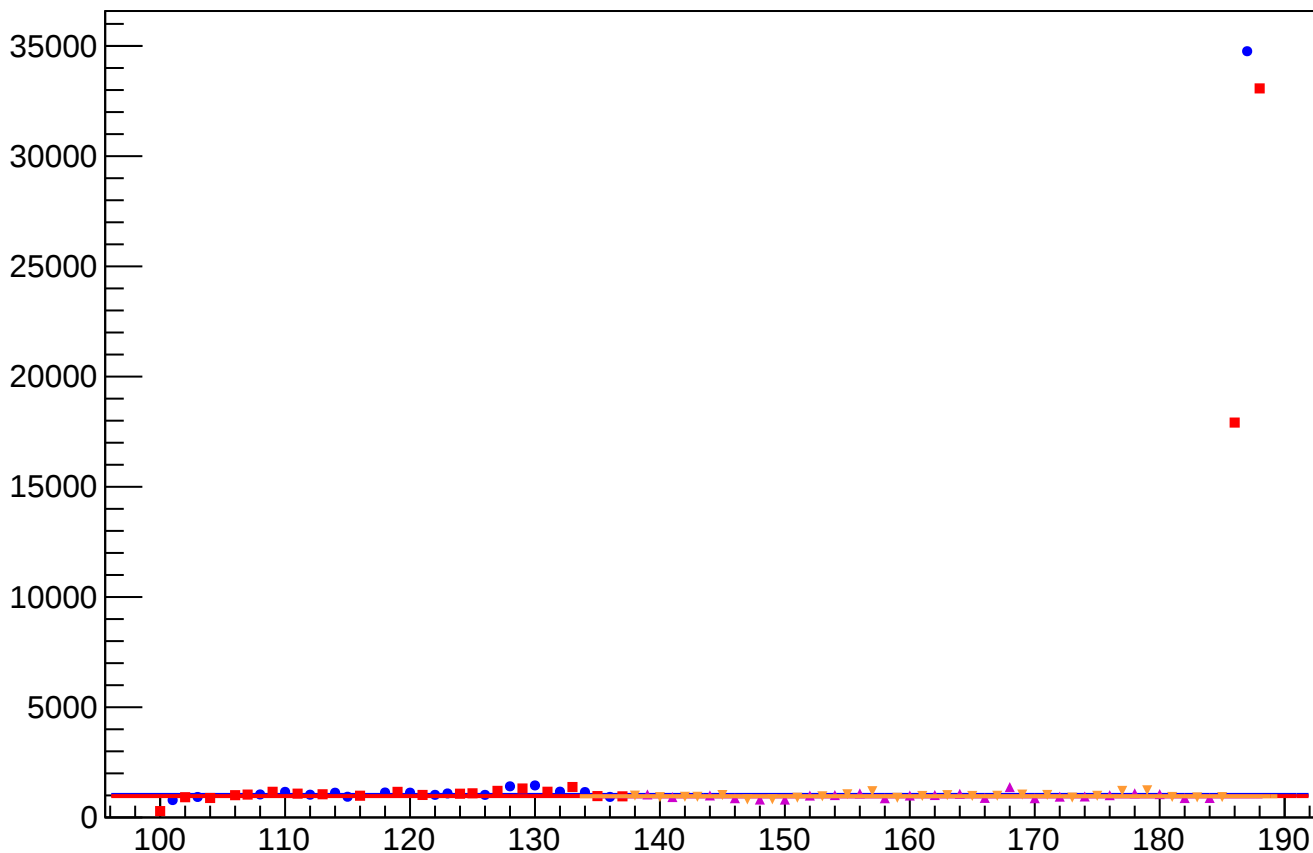
Right: 1399.142 $\pm$ 275.136 χ^2/NDF : 32.3/38

In: 1261.016 $\pm$ 199.893 χ^2/NDF : 43.3/40

Out: 888.176 $\pm$ 193.574 χ^2/NDF : 35.4/45

All: 1068.610 $\pm$ 139.058 χ^2/NDF : 80.5/86

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1022.883+/-0.285 χ^2/NDF : 461252.9/17

Left Out: 962.776+/-0.160 χ^2/NDF : 362837.8/24

Right Out: 968.399+/-0.266 χ^2/NDF : 2397229.0/20

Left In: 955.331+/-0.163 χ^2/NDF : 443068.5/22

Left: 959.128+/-0.114 χ^2/NDF : 806973.3/47

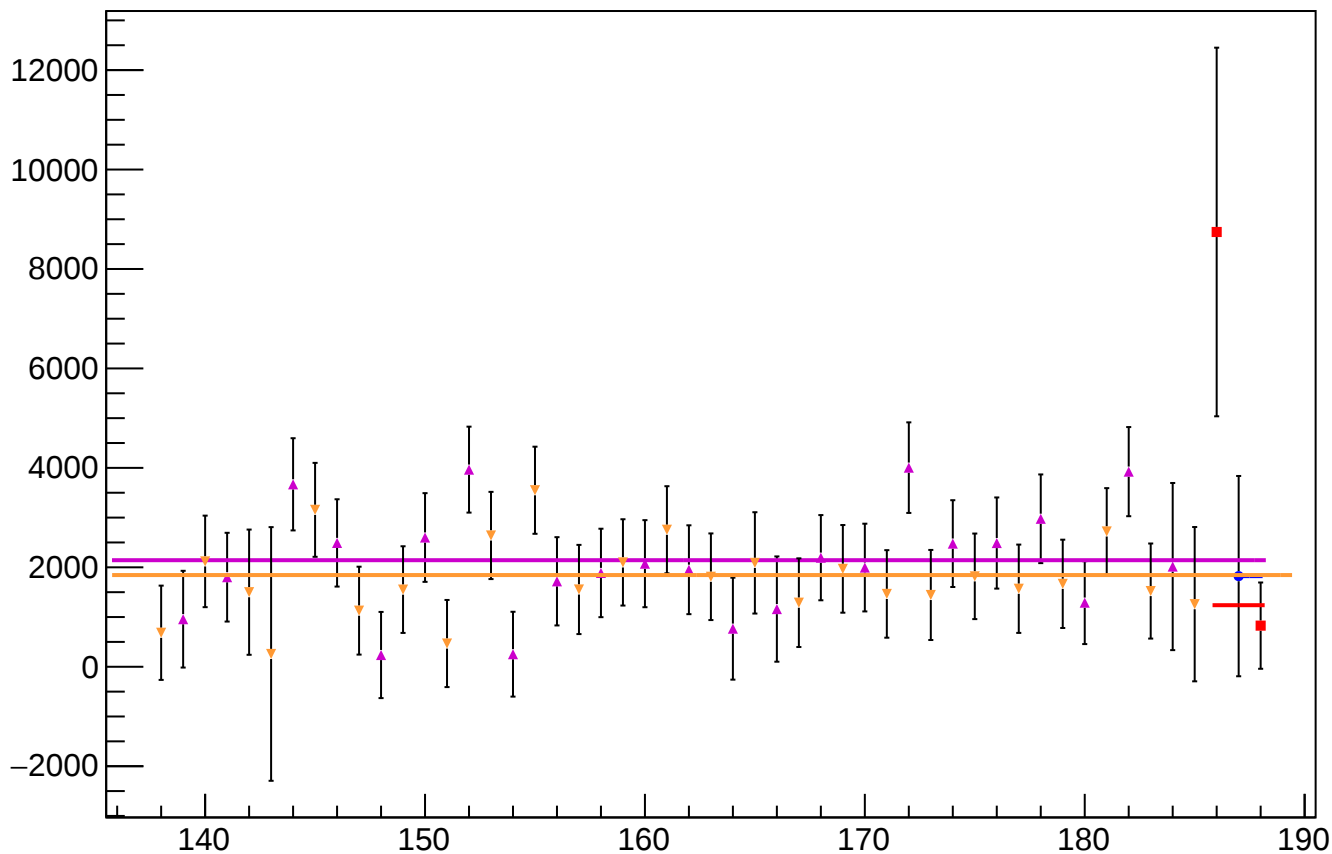
Right: 993.808+/-0.195 χ^2/NDF : 2878000.5/38

In: 971.960+/-0.141 χ^2/NDF : 946707.2/40

Out: 964.262+/-0.137 χ^2/NDF : 2760394.7/45

All: 967.987+/-0.098 χ^2/NDF : 3708632.6/86

cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 1823.087+/-2014.025 χ^2/NDF : 0.0/0

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

Right Out: 1238.358+/-844.854 χ^2/NDF : 4.3/1

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

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

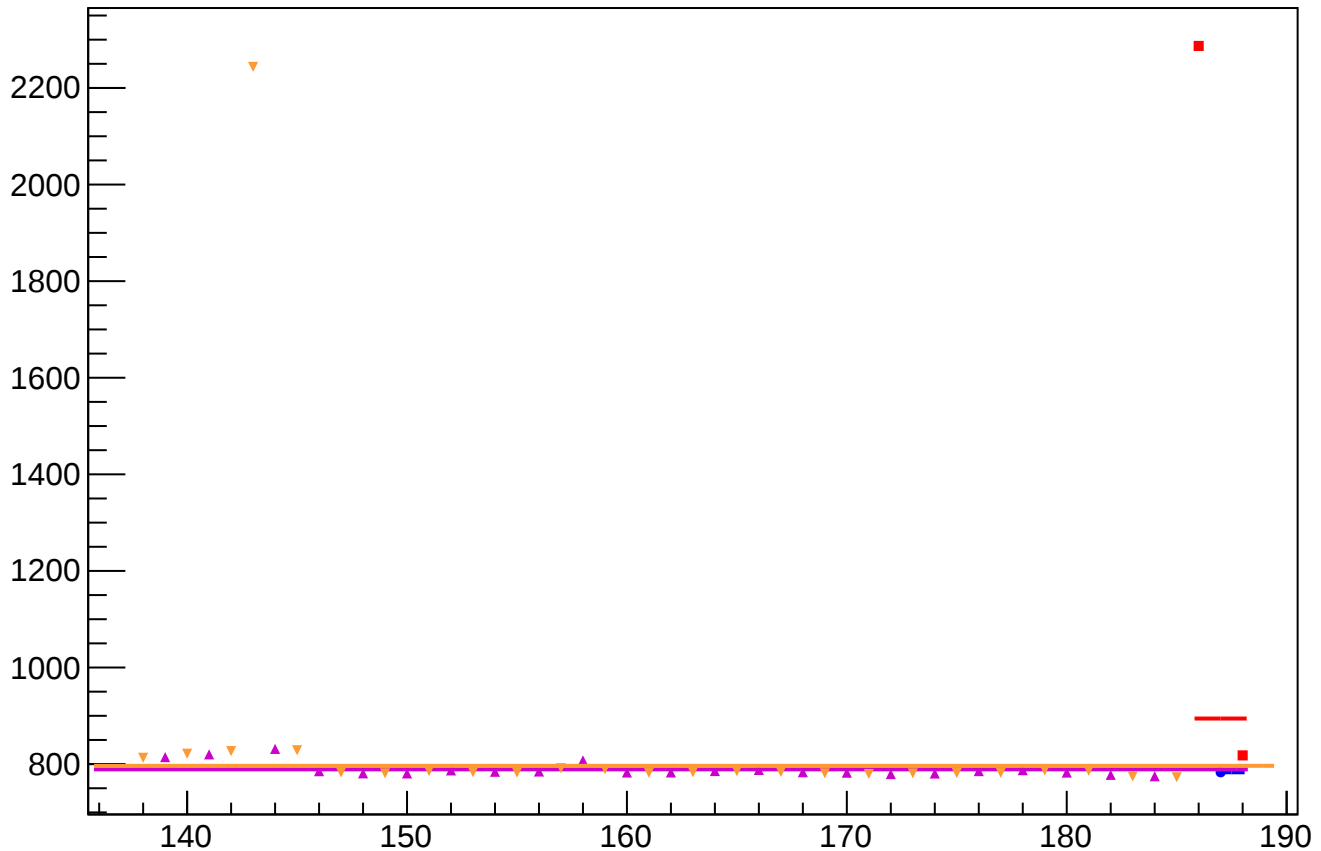
Right: 1325.855+/-779.083 χ^2/NDF : 4.4/2

In: 2140.425+/-189.302 χ^2/NDF :32.4/23

Out: 1816.085+/-182.496 χ^2/NDF :20.2/26

All: 1972.319+/-131.384 χ^2/NDF : 54.1/50

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 783.103 $\pm$ 1.424 χ^2/NDF : 0.0/0

Left Out: 796.470 $\pm$ 0.132 χ^2/NDF : 658729.4/24

Right Out: 894.365 $\pm$ 0.597 χ^2/NDF : 297758.8/1

Left In: 789.176 $\pm$ 0.134 χ^2/NDF : 10860.4/22

Left: 792.886 $\pm$ 0.094 χ^2/NDF : 671086.4/47

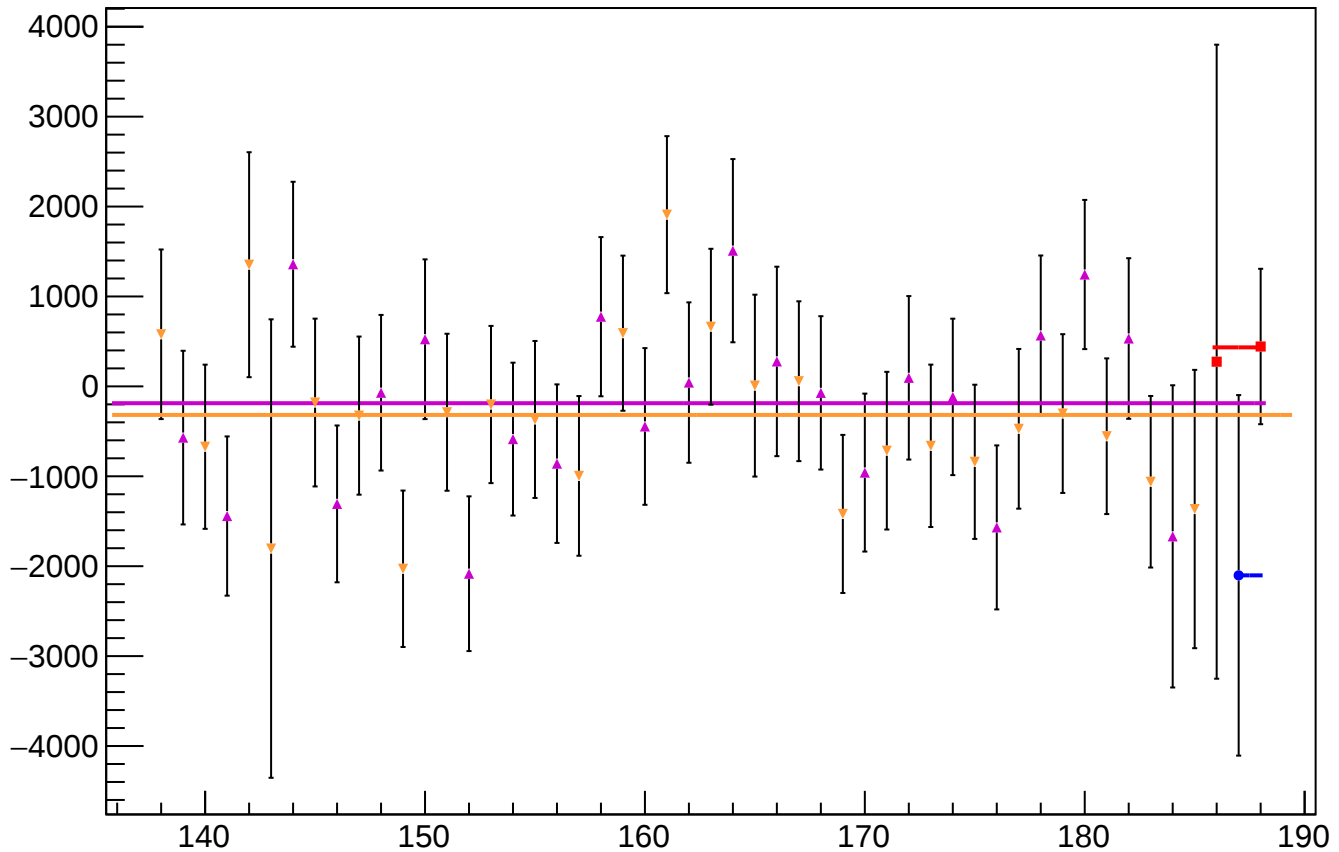
Right: 877.716 $\pm$ 0.551 χ^2/NDF : 302949.2/2

In: 789.123 $\pm$ 0.134 χ^2/NDF : 10878.4/23

Out: 801.038 $\pm$ 0.129 χ^2/NDF : 982088.1/26

All: 795.298 $\pm$ 0.093 χ^2/NDF : 997073.2/50

cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -2101.966 $\pm$ 2004.996 χ^2 /NDF: 0.0/0

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

Right Out: 433.853 $\pm$ 839.412 χ^2 /NDF: 0.0/1

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

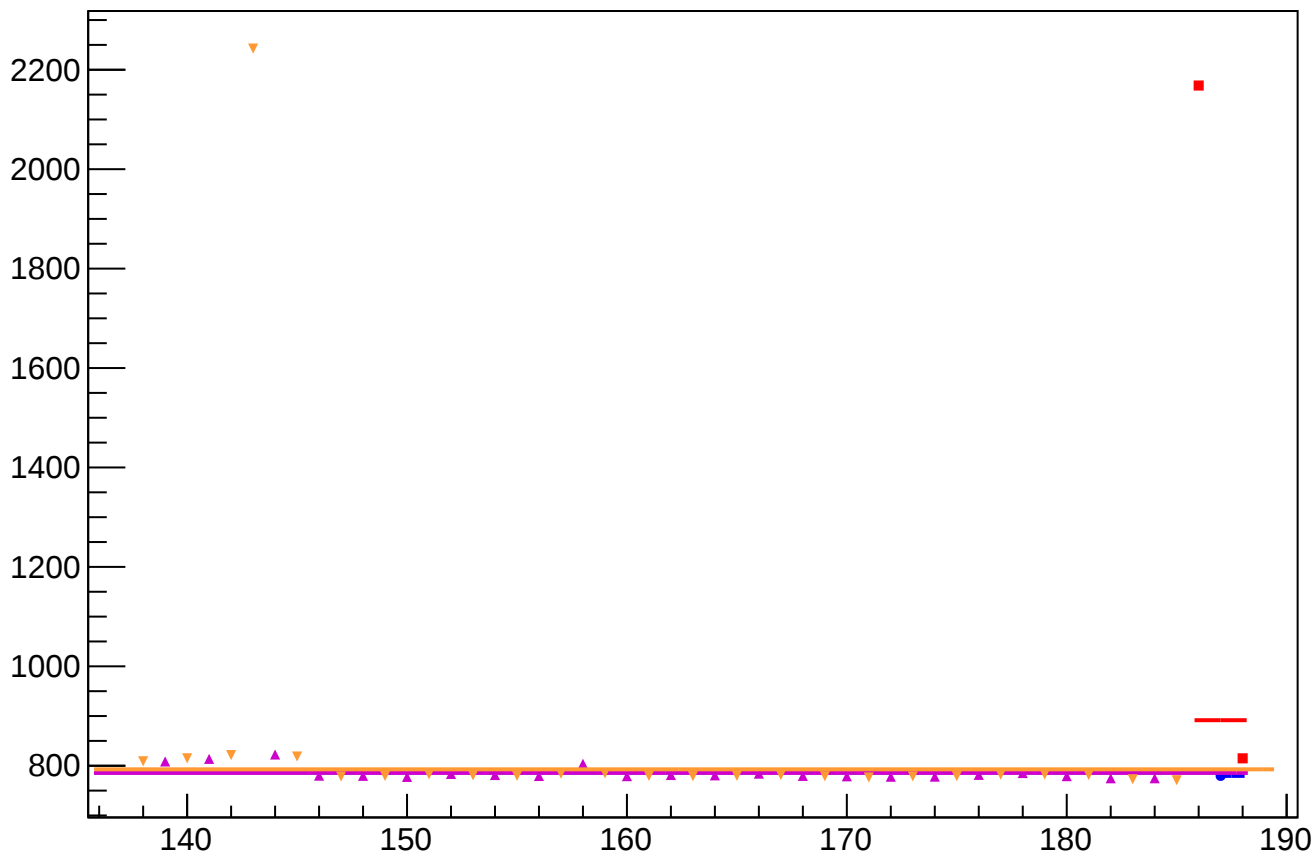
Right: 55.671 $\pm$ 774.293 χ^2 /NDF: 1.4/2

In: -204.017 $\pm$ 188.428 χ^2 /NDF:26.5/23

Out: -282.426 $\pm$ 181.637 χ^2 /NDF:21.1/26

All: -244.659 $\pm$ 130.772 χ^2 /NDF: 47.7/50

cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 779.630+/-1.418 χ^2/NDF : 0.0/0

Left Out: 792.811+/-0.132 χ^2/NDF : 659508.7/24

Right Out: 891.636+/-0.594 χ^2/NDF : 277928.3/1

Left In: 785.562+/-0.134 χ^2/NDF : 9033.0/22

Left: 789.249+/-0.094 χ^2/NDF : 670033.9/47

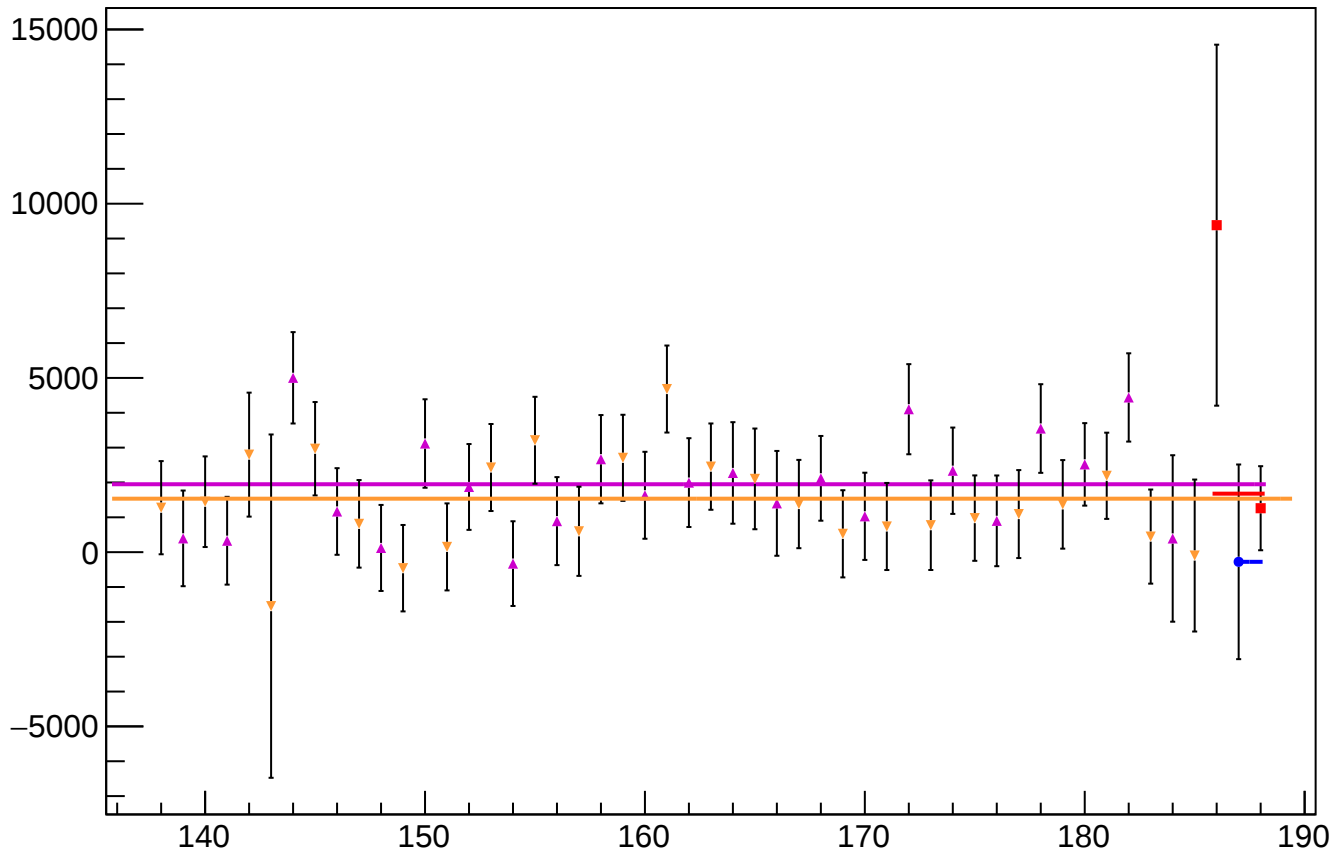
Right: 874.932+/-0.548 χ^2/NDF : 283238.9/2

In: 785.509+/-0.133 χ^2/NDF : 9050.3/23

Out: 797.438+/-0.128 χ^2/NDF : 963860.4/26

All: 791.693+/-0.092 χ^2/NDF : 977065.6/50

cor_asym_usl_mean vs Slug, Sign Corrected



Right In: -277.259+/-2793.160 χ^2/NDF : 0.0/0

Left Out: 1534.720+/-265.890 χ^2/NDF : 20.3/24

Right Out: 1678.820+/-1174.777 χ^2/NDF : 2.3/1

Left In: 1949.077+/-270.080 χ^2/NDF : 26.8/22

Left: 1738.660+/-189.477 χ^2/NDF : 48.3/47

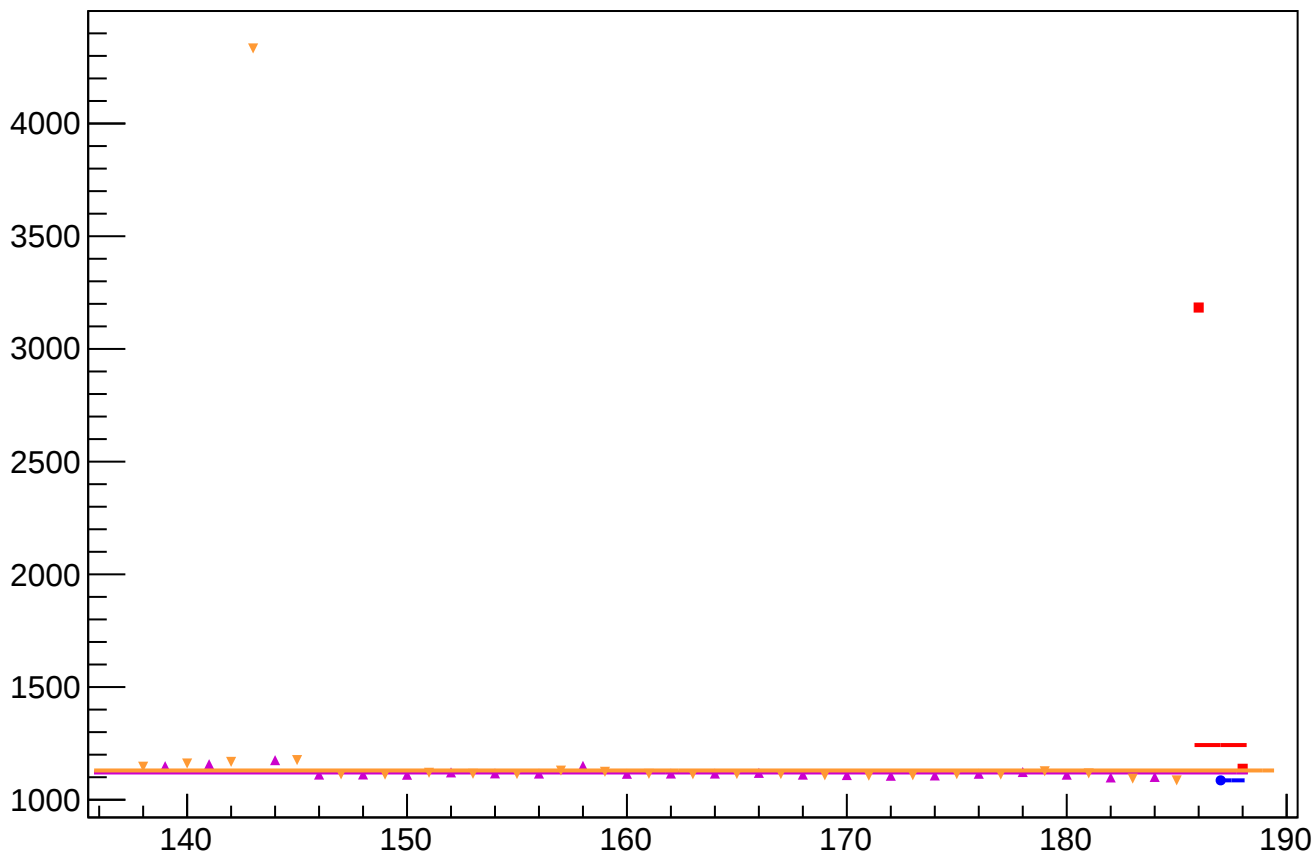
Right: 1384.806+/-1082.895 χ^2/NDF : 2.7/2

In: 1928.455+/-268.826 χ^2/NDF : 27.4/23

Out: 1541.742+/-259.331 χ^2/NDF : 22.6/26

All: 1728.148+/-186.641 χ^2/NDF : 51.1/50

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1086.094+/-1.975 χ^2/NDF : 0.0/0

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

Right Out: 1242.674+/-0.831 χ^2/NDF : 296034.6/1

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

Left: 1125.527+/-0.134 χ^2/NDF : 868647.2/47

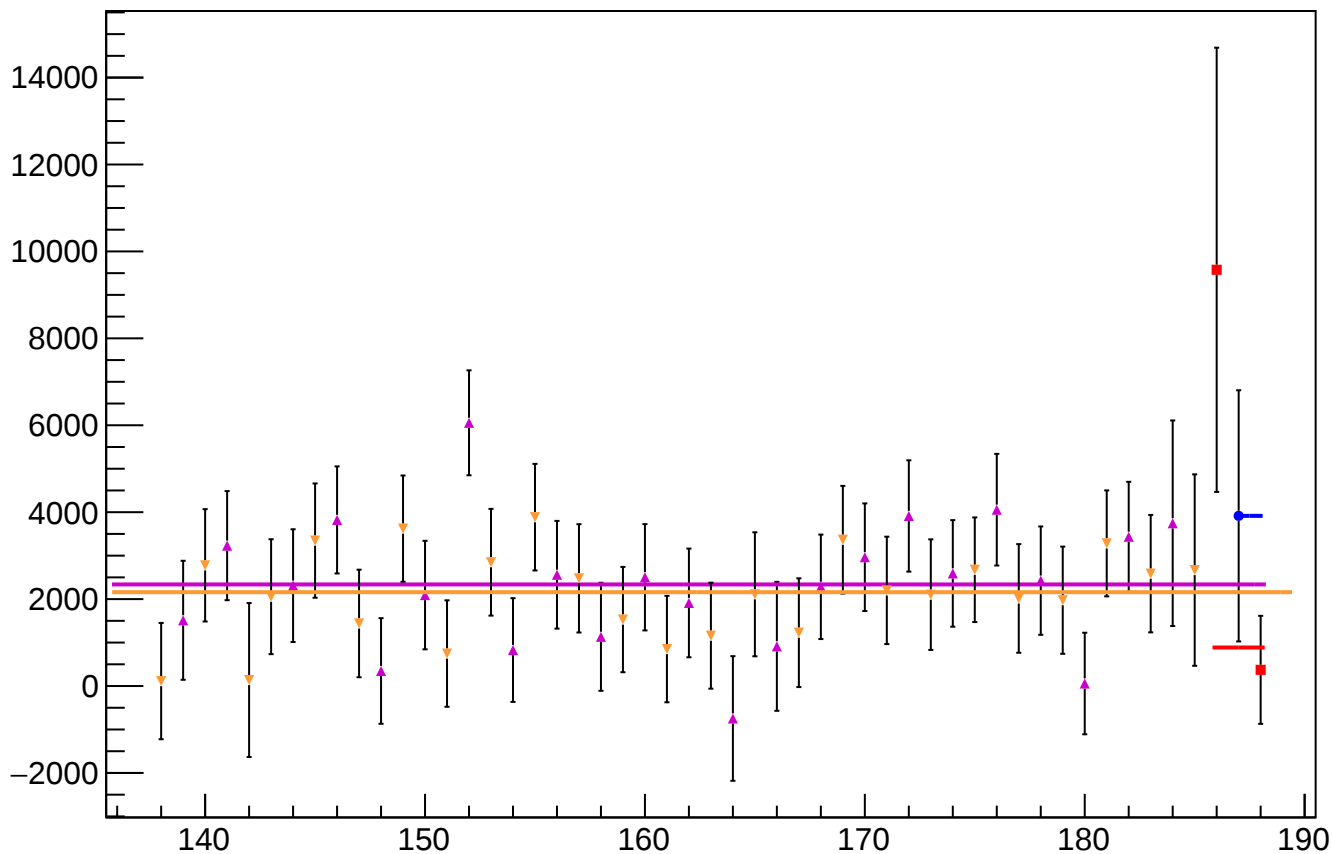
Right: 1219.138+/-0.766 χ^2/NDF : 301375.0/2

In: 1120.654+/-0.190 χ^2/NDF : 9568.7/23

Out: 1135.430+/-0.183 χ^2/NDF : 1171825.3/26

All: 1128.308+/-0.132 χ^2/NDF : 1184523.8/50

cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 3915.502 $\pm$ 2889.951 χ^2 /NDF: 0.0/0

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

Right Out: 886.345 $\pm$ 1207.652 χ^2 /NDF: 3.1/1

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

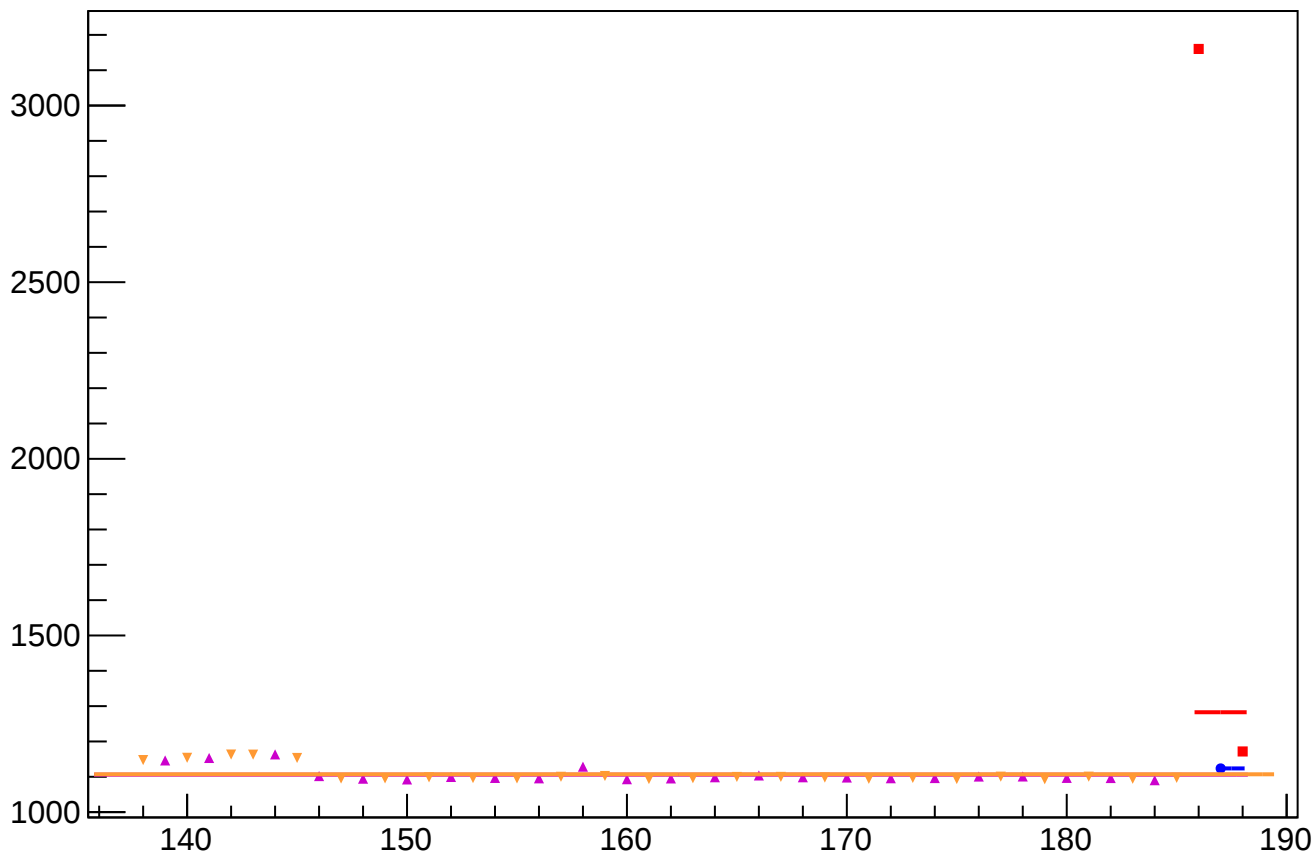
Right: 1336.670 $\pm$ 1114.275 χ^2 /NDF: 4.0/2

In: 2350.537 $\pm$ 265.343 χ^2 /NDF:31.6/23

Out: 2104.486 $\pm$ 251.863 χ^2 /NDF:19.1/26

All: 2221.103 $\pm$ 182.674 χ^2 /NDF: 51.2/50

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1123.711 $\pm$ 2.044 χ^2 /NDF: 0.0/0

Left Out: 1107.091 $\pm$ 0.182 χ^2 /NDF:15185.2/24

Right Out: 1282.722 $\pm$ 0.854 χ^2 /NDF: 285849.3/1

Left In: 1105.955 $\pm$ 0.188 χ^2 /NDF:11111.3/22

Left: 1106.543 $\pm$ 0.131 χ^2 /NDF: 26315.2/47

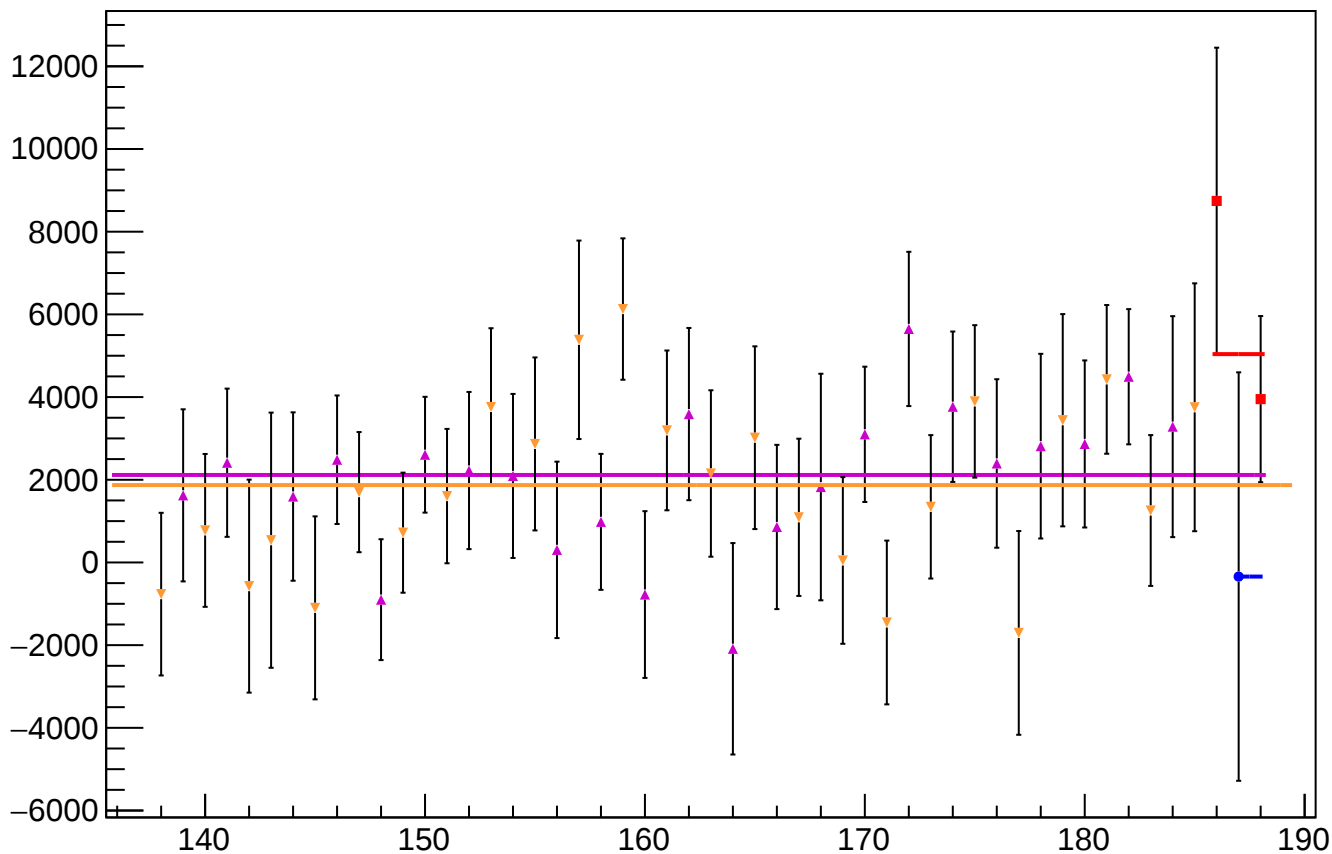
Right: 1259.083 $\pm$ 0.788 χ^2 /NDF: 291004.0/2

In: 1106.105 $\pm$ 0.188 χ^2 /NDF:11186.1/23

Out: 1114.730 $\pm$ 0.178 χ^2 /NDF:341495.4/26

All: 1110.642 $\pm$ 0.129 χ^2 /NDF: 353793.2/50

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -341.335+/-4939.699 χ^2/NDF : 0.0/0

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

Right Out: 5039.143+/-1766.403 χ^2/NDF : 1.3/1

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

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

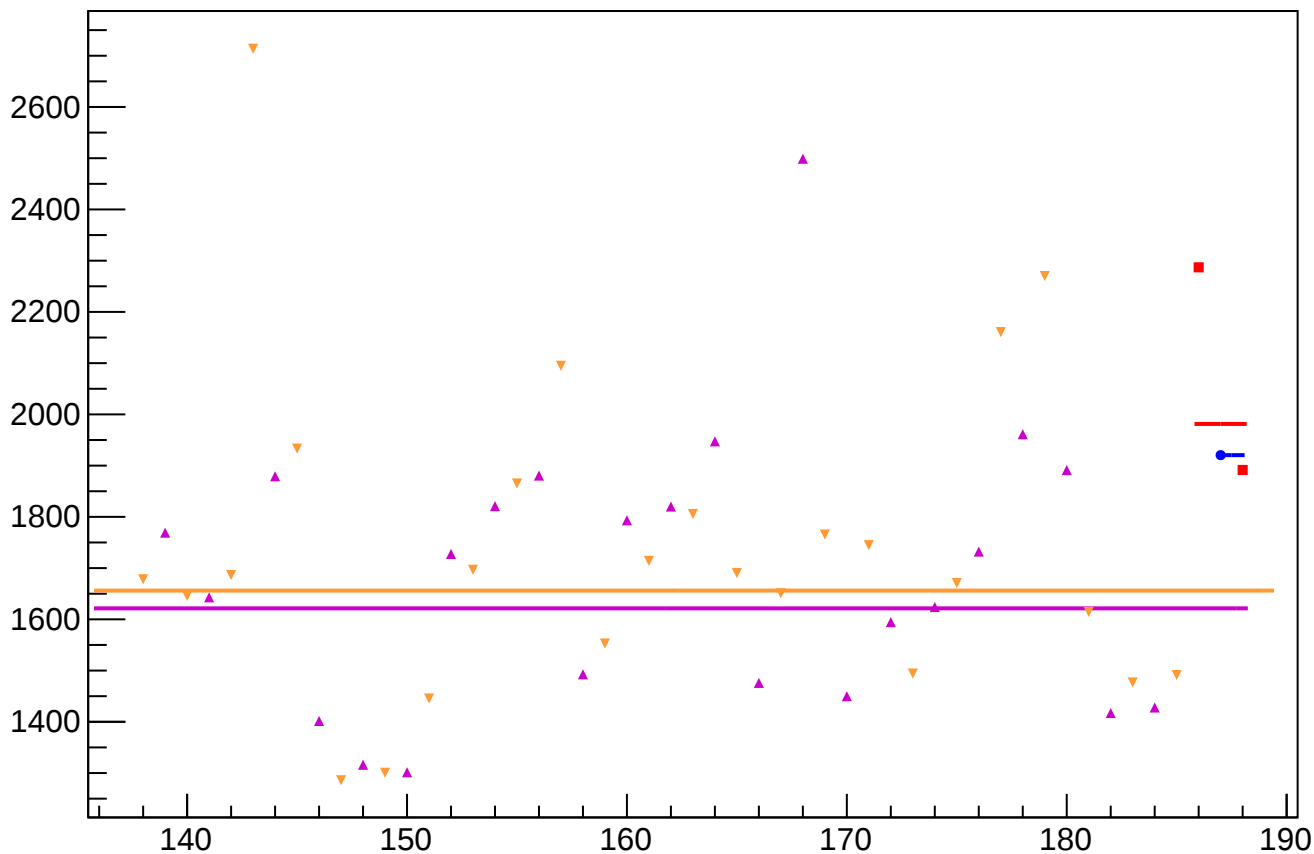
Right: 4429.129+/-1663.258 χ^2/NDF : 2.3/2

In: 2100.657+/-391.759 χ^2/NDF :19.0/23

Out: 2020.082+/-382.395 χ^2/NDF :30.5/26

All: 2059.395+/-273.645 χ^2/NDF : 49.5/50

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1920.453+/-3.493 χ^2/NDF : 0.0/0

Left Out: 1656.119+/-0.277 χ^2/NDF : 910573.4/24

Right Out: 1981.366+/-1.249 χ^2/NDF : 17593.3/1

Left In: 1621.417+/-0.278 χ^2/NDF : 775310.1/22

Left: 1638.826+/-0.196 χ^2/NDF : 1693706.9/47

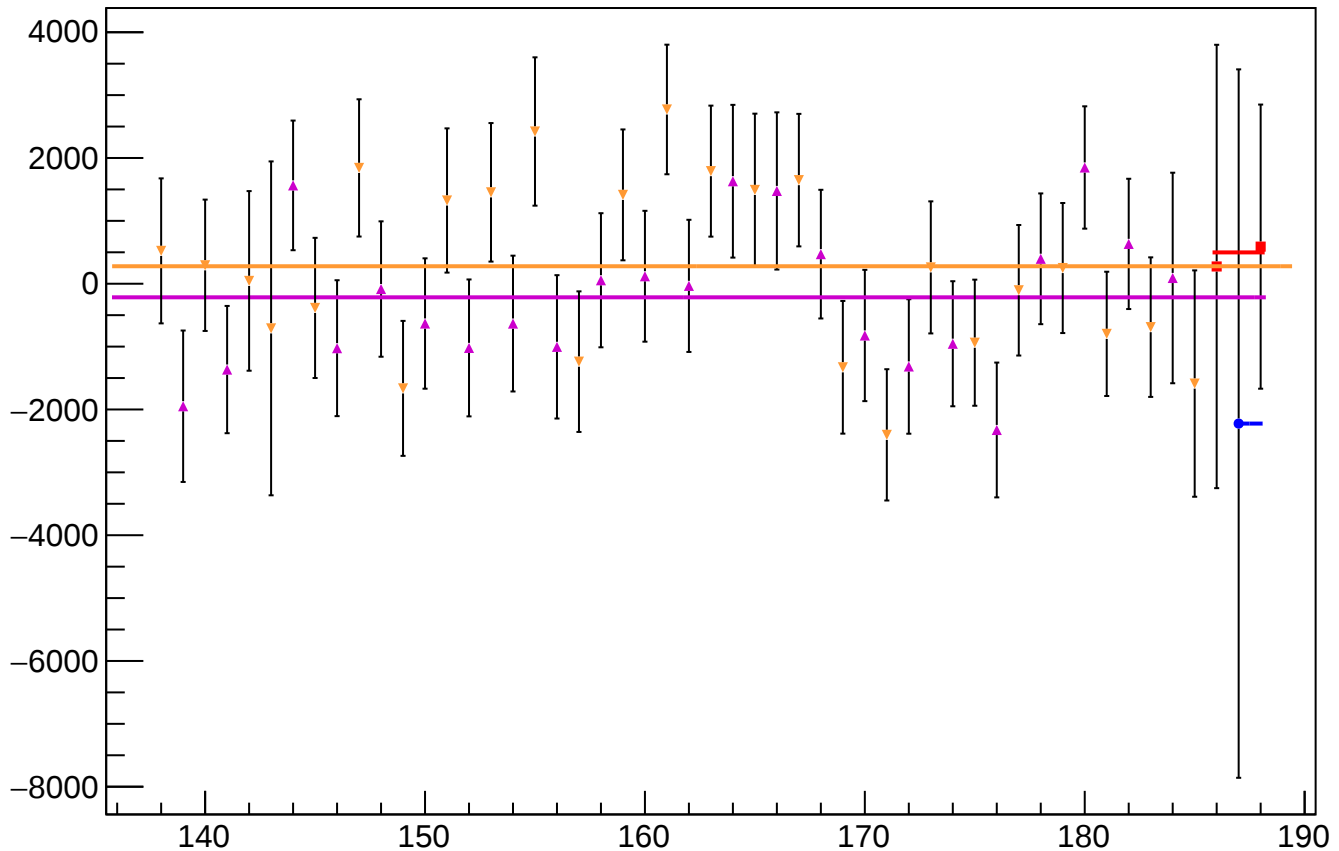
Right: 1974.460+/-1.176 χ^2/NDF : 17862.9/2

In: 1623.298+/-0.277 χ^2/NDF : 782593.5/23

Out: 1671.362+/-0.270 χ^2/NDF : 992796.2/26

All: 1647.911+/-0.193 χ^2/NDF : 1790806.1/50

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2224.307 ± 5634.016 $\chi^2/\text{NDF}: 0.0/0$

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

Right Out: 498.211 ± 1902.544 $\chi^2/\text{NDF}: 0.0/1$

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

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

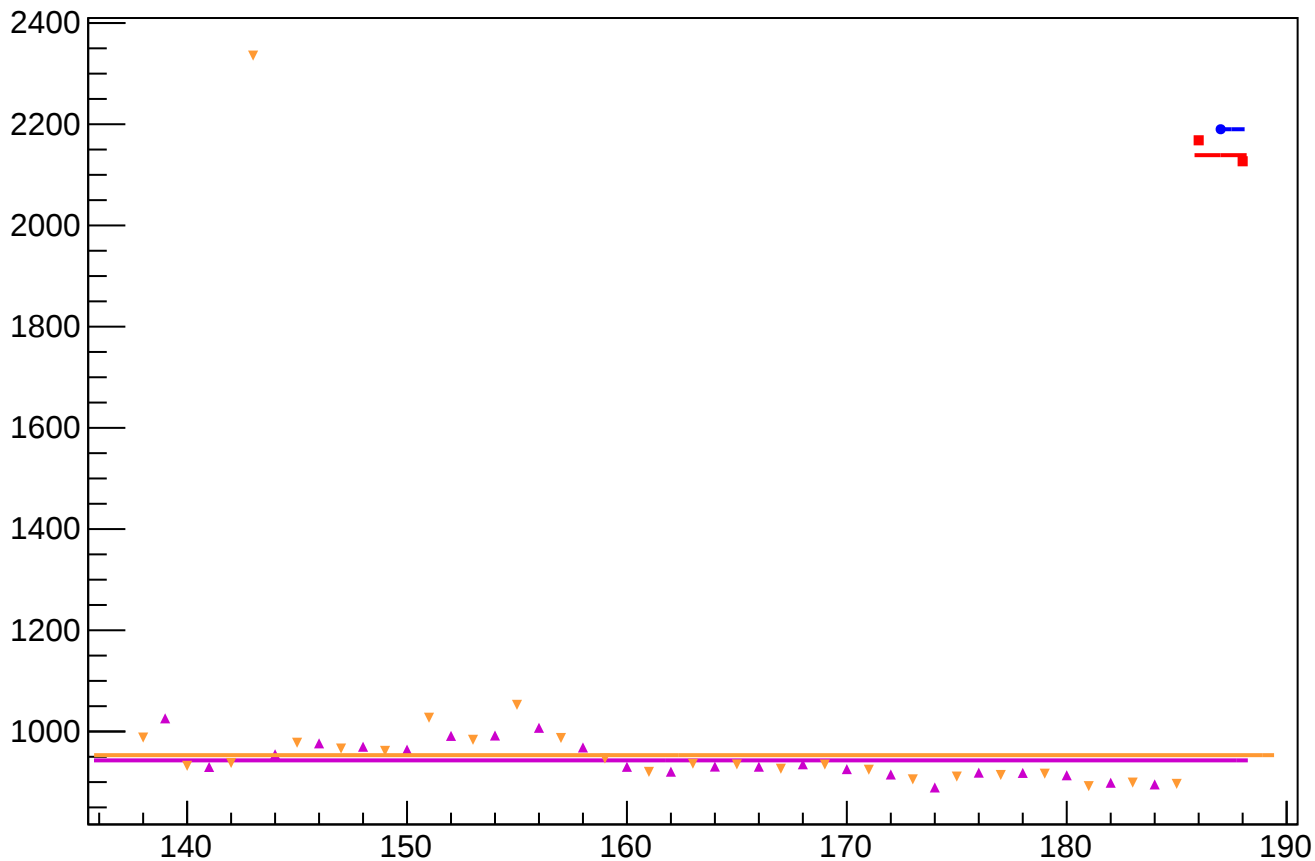
Right: 219.531 ± 1802.542 $\chi^2/\text{NDF}: 0.2/2$

In: -219.336 ± 225.420 $\chi^2/\text{NDF}: 24.5/23$

Out: 281.089 ± 222.053 $\chi^2/\text{NDF}: 38.4/26$

All: 34.642 ± 158.192 $\chi^2/\text{NDF}: 65.5/50$

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 2190.105+/-3.984 χ^2/NDF : 0.0/0

Left Out: 953.221+/-0.158 χ^2/NDF : 606273.1/24

Right Out: 2138.886+/-1.345 χ^2/NDF : 195.8/1

Left In: 942.927+/-0.160 χ^2/NDF : 48402.9/22

Left: 948.120+/-0.112 χ^2/NDF : 656777.0/47

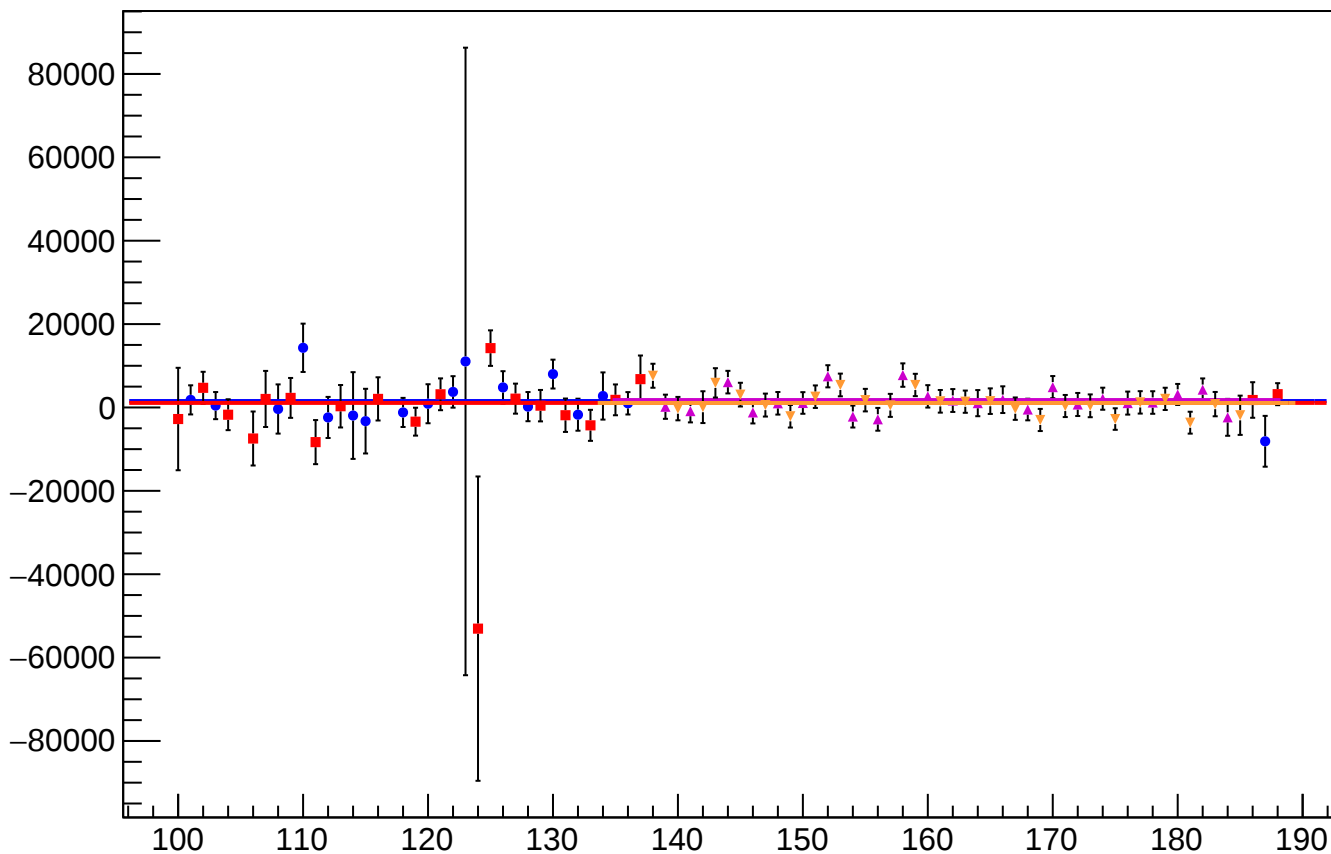
Right: 2144.129+/-1.275 χ^2/NDF : 344.2/2

In: 944.923+/-0.159 χ^2/NDF : 146251.7/23

Out: 969.372+/-0.157 χ^2/NDF : 1372644.1/26

All: 957.332+/-0.112 χ^2/NDF : 1530836.5/50

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1540.081 $\pm$ 1002.051 χ^2 /NDF: 14.9/17

Left Out: 1078.054 $\pm$ 564.005 χ^2 /NDF: 23.6/24

Right Out: 1096.731 $\pm$ 933.769 χ^2 /NDF: 24.9/20

Left In: 1777.100 $\pm$ 575.895 χ^2 /NDF: 24.1/22

Left: 1420.287 $\pm$ 402.950 χ^2 /NDF: 48.4/47

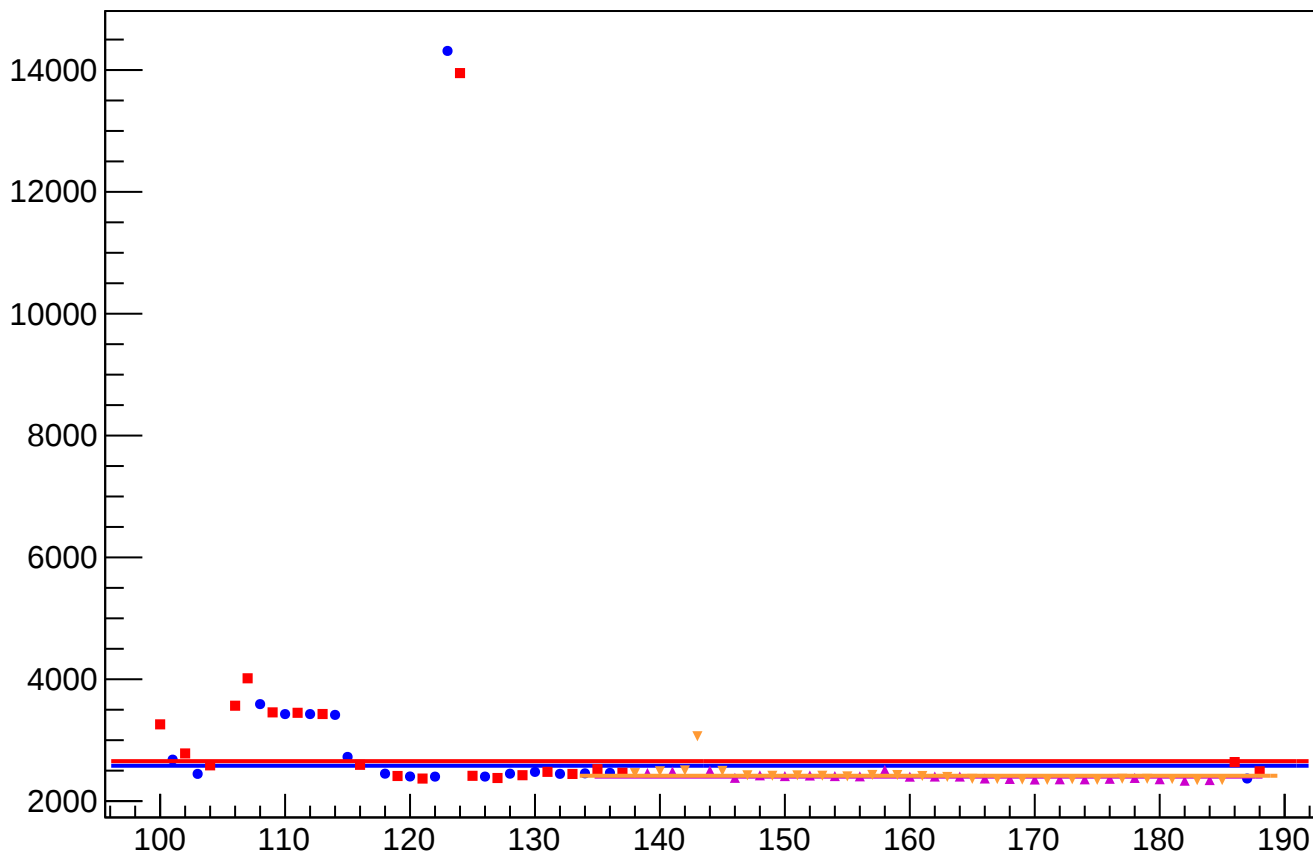
Right: 1302.787 $\pm$ 683.139 χ^2 /NDF: 39.8/38

In: 1718.251 $\pm$ 499.308 χ^2 /NDF: 39.0/40

Out: 1083.047 $\pm$ 482.774 χ^2 /NDF: 48.5/45

All: 1389.958 $\pm$ 347.071 χ^2 /NDF: 88.3/86

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2580.581+/-0.709 χ^2/NDF : 256278.6/17

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

Right Out: 2655.910+/-0.660 χ^2/NDF : 538349.0/20

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

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

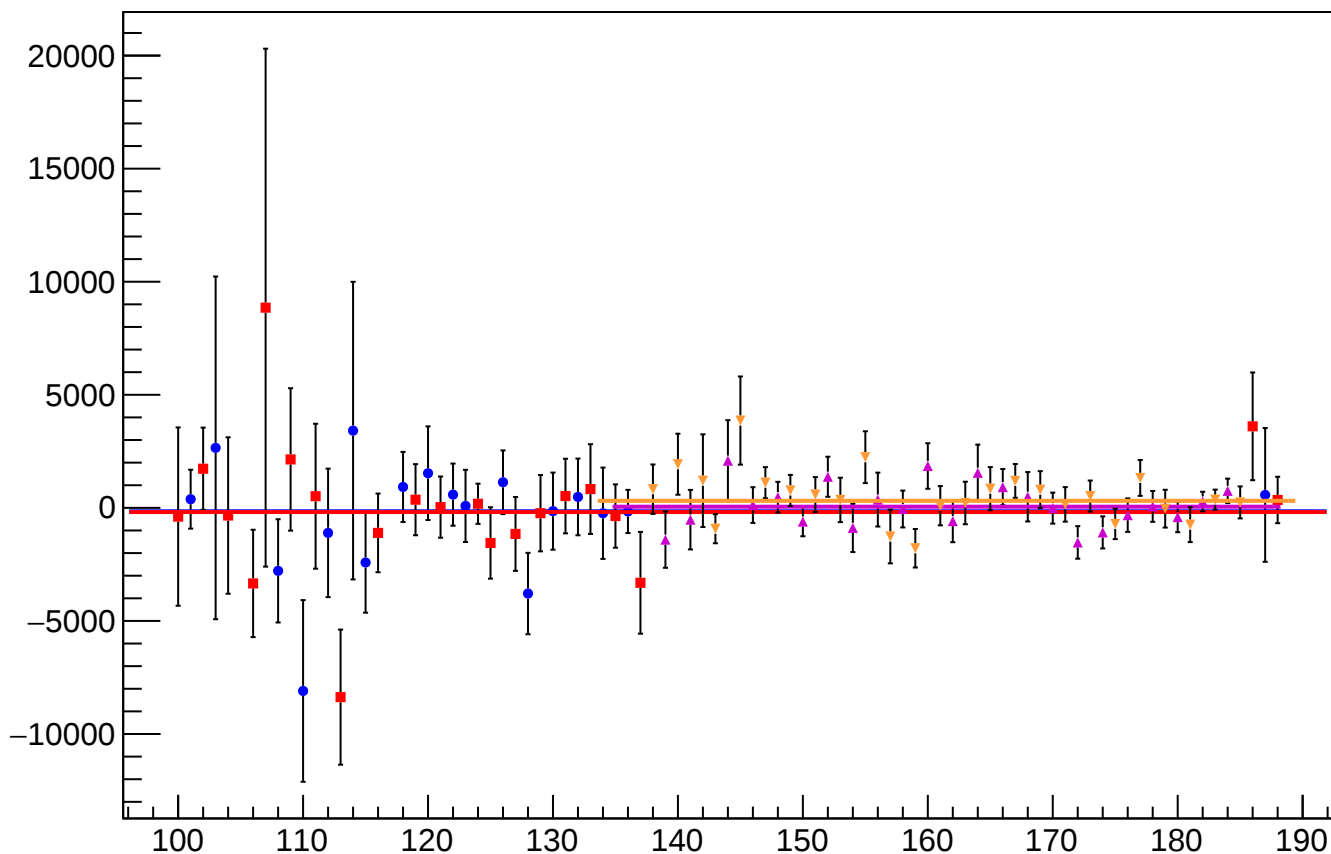
Right: 2620.900+/-0.483 χ^2/NDF : 800677.0/38

In: 2445.905+/-0.353 χ^2/NDF : 318086.1/40

Out: 2480.144+/-0.341 χ^2/NDF : 717701.5/45

All: 2463.601+/-0.245 χ^2/NDF : 1040648.0/86

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: -152.111 ± 417.177 χ^2/NDF : 13.6/17

Left Out: 310.873 ± 160.650 χ^2/NDF : 29.7/24

Right Out: -184.882 ± 375.958 χ^2/NDF : 18.5/20

Left In: 51.454 ± 161.744 χ^2/NDF : 23.8/22

Left: 182.044 ± 113.982 χ^2/NDF : 54.9/47

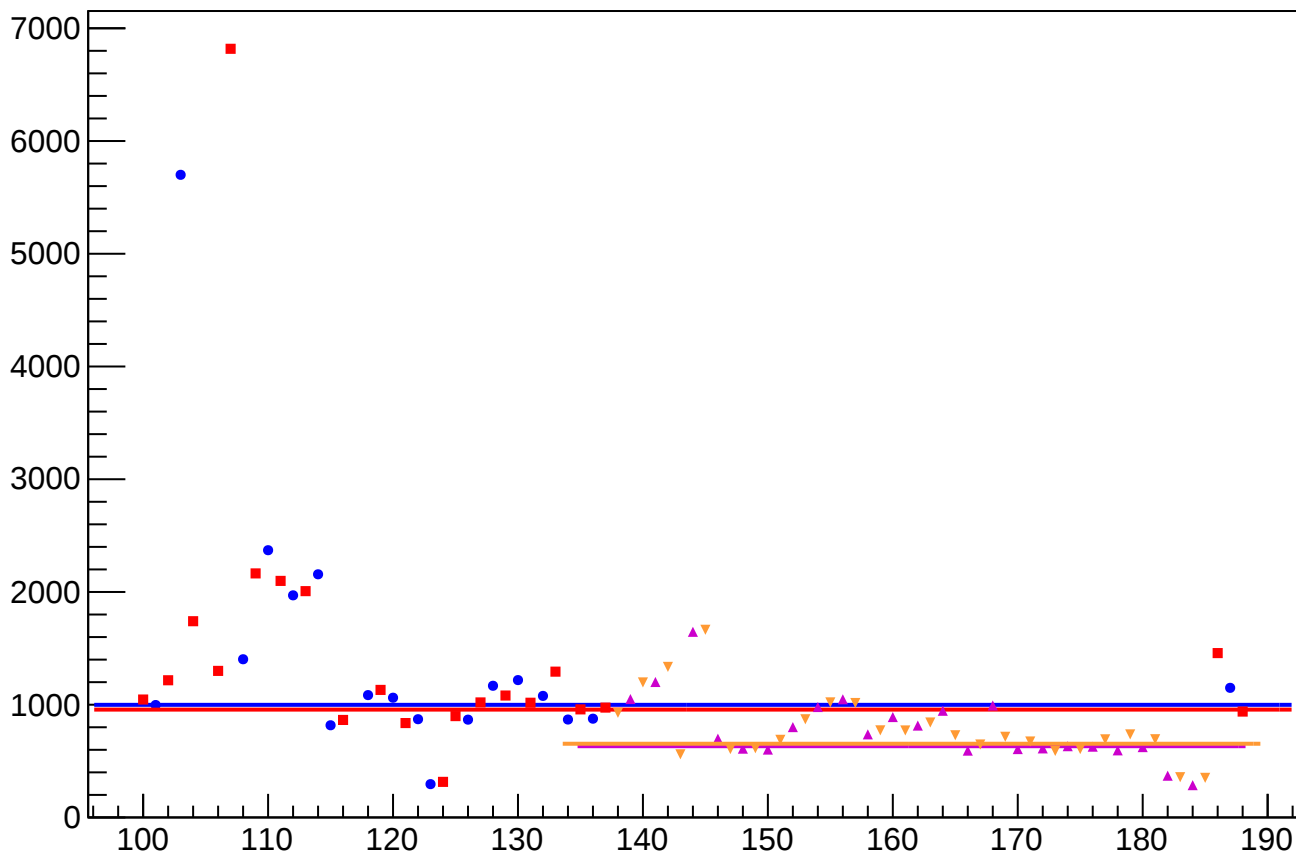
Right: -170.195 ± 279.281 χ^2/NDF : 32.1/38

In: 24.853 ± 150.806 χ^2/NDF : 37.6/40

Out: 234.328 ± 147.728 χ^2/NDF : 49.7/45

All: 131.750 ± 105.531 χ^2/NDF : 88.3/86

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 998.931+/-0.295 χ^2/NDF : 1908298.0/17

Left Out: 653.803+/-0.114 χ^2/NDF : 3254694.4/24

Right Out: 956.634+/-0.266 χ^2/NDF : 2757358.5/20

Left In: 632.053+/-0.114 χ^2/NDF : 3942853.4/22

Left: 643.002+/-0.081 χ^2/NDF : 7215752.9/47

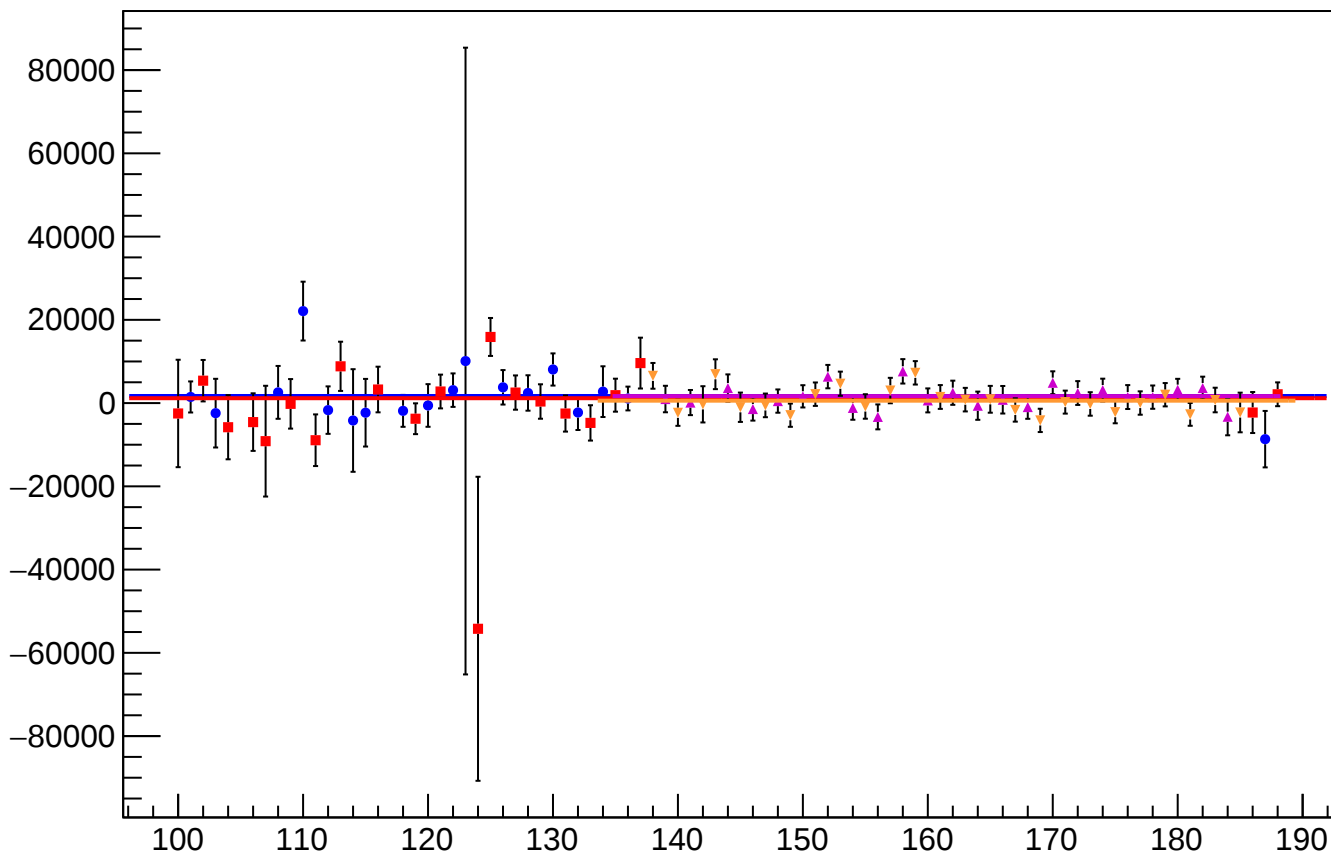
Right: 975.590+/-0.197 χ^2/NDF : 4677002.2/38

In: 679.995+/-0.107 χ^2/NDF : 7195818.1/40

Out: 700.560+/-0.104 χ^2/NDF : 7109332.1/45

All: 690.490+/-0.075 χ^2/NDF : 14324129.1/86

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1703.807+/-1146.820 χ^2/NDF : 16.9/17

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

Right Out: 1171.450+/-1073.067 χ^2/NDF : 27.4/20

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

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

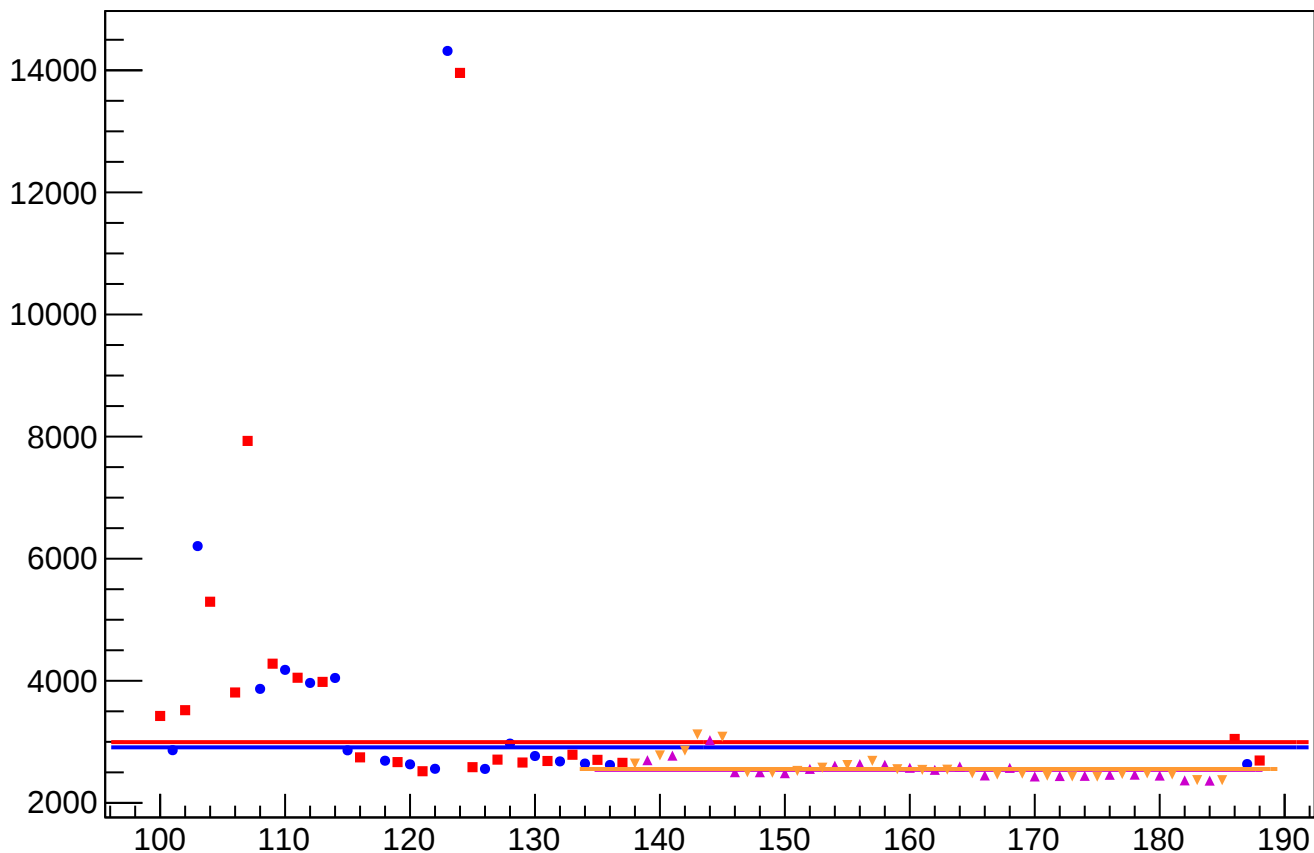
Right: 1419.961+/-783.550 χ^2/NDF : 44.5/38

In: 1684.918+/-538.630 χ^2/NDF : 35.1/40

Out: 720.531+/-521.811 χ^2/NDF : 53.0/45

All: 1187.433+/-374.781 χ^2/NDF : 89.7/86

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2909.951+/-0.811 χ^2/NDF : 640067.7/17

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

Right Out: 2995.266+/-0.759 χ^2/NDF : 1032549.2/20

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

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

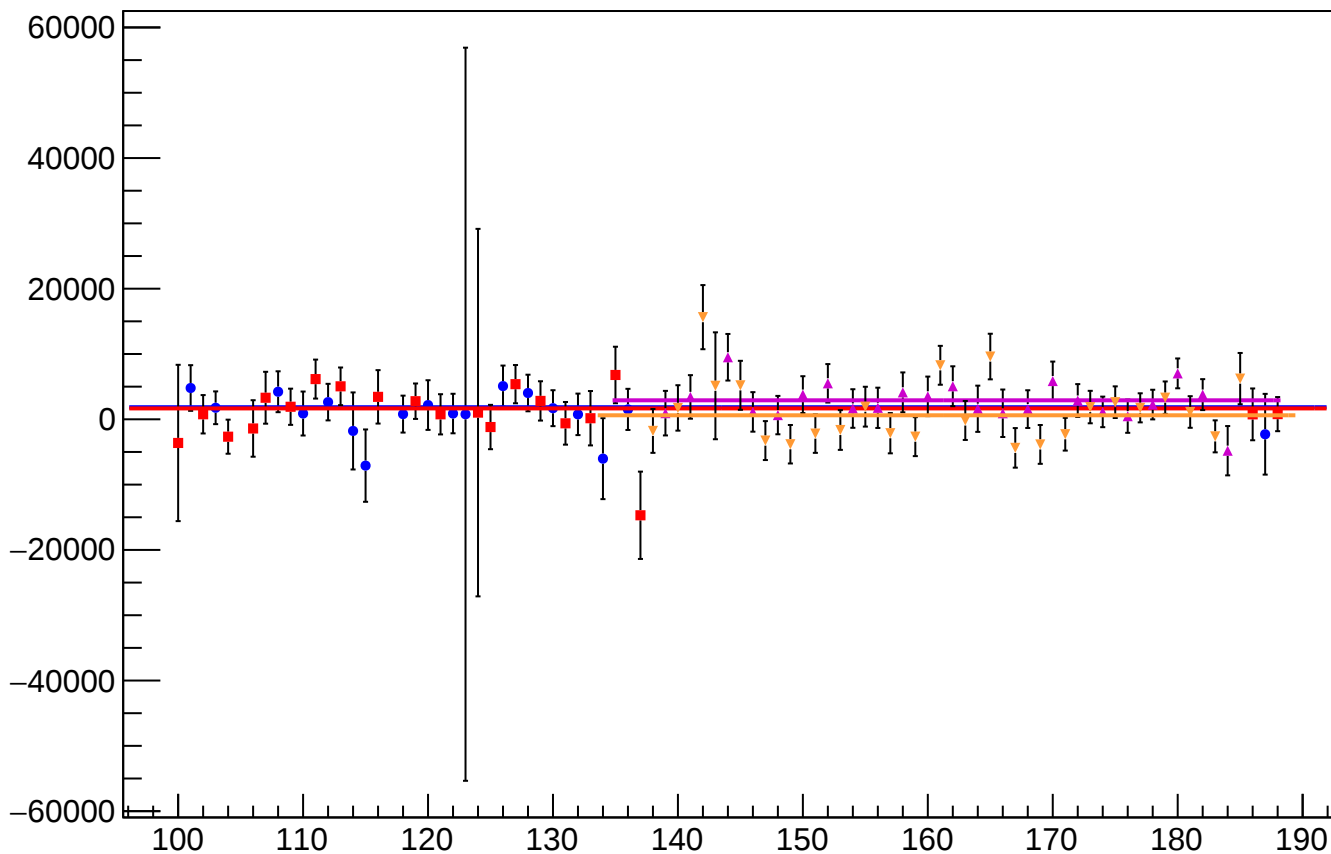
Right: 2955.440+/-0.554 χ^2/NDF : 1678518.4/38

In: 2622.378+/-0.381 χ^2/NDF :896174.8/40

Out: 2659.322+/-0.369 χ^2/NDF :1444026.3/45

All: 2641.436+/-0.265 χ^2/NDF : 2345054.8/86

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1852.374+/-806.660 χ^2/NDF : 8.5/17

Left Out: 614.867+/-591.148 χ^2/NDF : 45.2/24

Right Out: 1666.698+/-744.800 χ^2/NDF : 18.4/20

Left In: 2909.108+/-599.673 χ^2/NDF : 17.4/22

Left: 1745.562+/-420.986 χ^2/NDF : 70.0/47

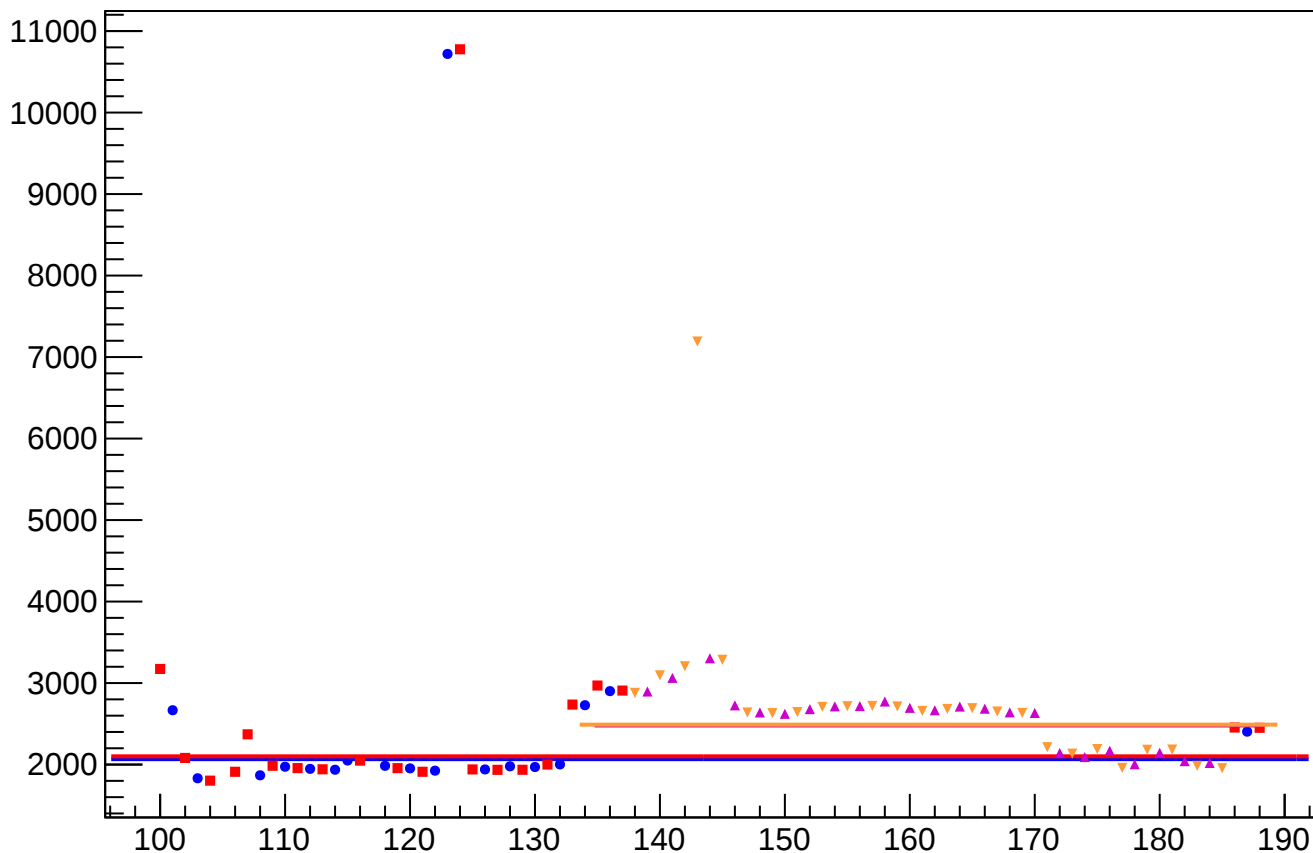
Right: 1752.144+/-547.217 χ^2/NDF : 27.0/38

In: 2532.975+/-481.258 χ^2/NDF : 27.0/40

Out: 1021.387+/-463.028 χ^2/NDF : 64.8/45

All: 1748.010+/-333.669 χ^2/NDF : 97.0/86

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2066.566+/-0.570 χ^2/NDF : 323664.3/17

Left Out: 2489.577+/-0.418 χ^2/NDF :1364203.3/24

Right Out: 2100.987+/-0.527 χ^2/NDF : 500285.1/20

Left In: 2479.348+/-0.424 χ^2/NDF :668398.2/22

Left: 2484.536+/-0.298 χ^2/NDF : 2032896.6/47

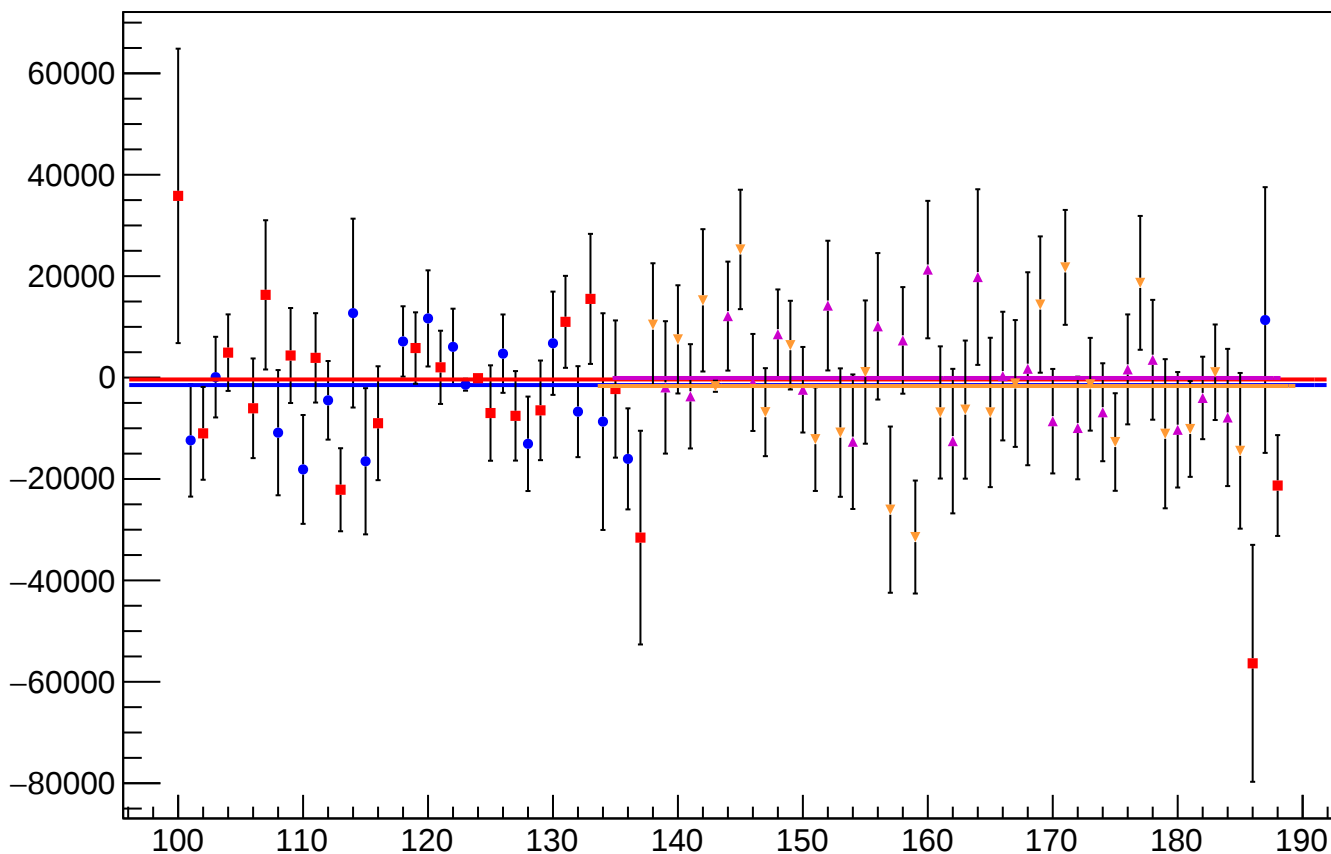
Right: 2085.147+/-0.387 χ^2/NDF : 825915.1/38

In: 2332.423+/-0.340 χ^2/NDF :1329364.6/40

Out: 2339.391+/-0.327 χ^2/NDF :2198497.9/45

All: 2336.041+/-0.236 χ^2/NDF : 3528080.2/86

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1479.345+/-1053.808 χ^2/NDF : 15.9/17

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

Right Out: -371.850+/-693.338 χ^2/NDF : 31.2/20

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

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

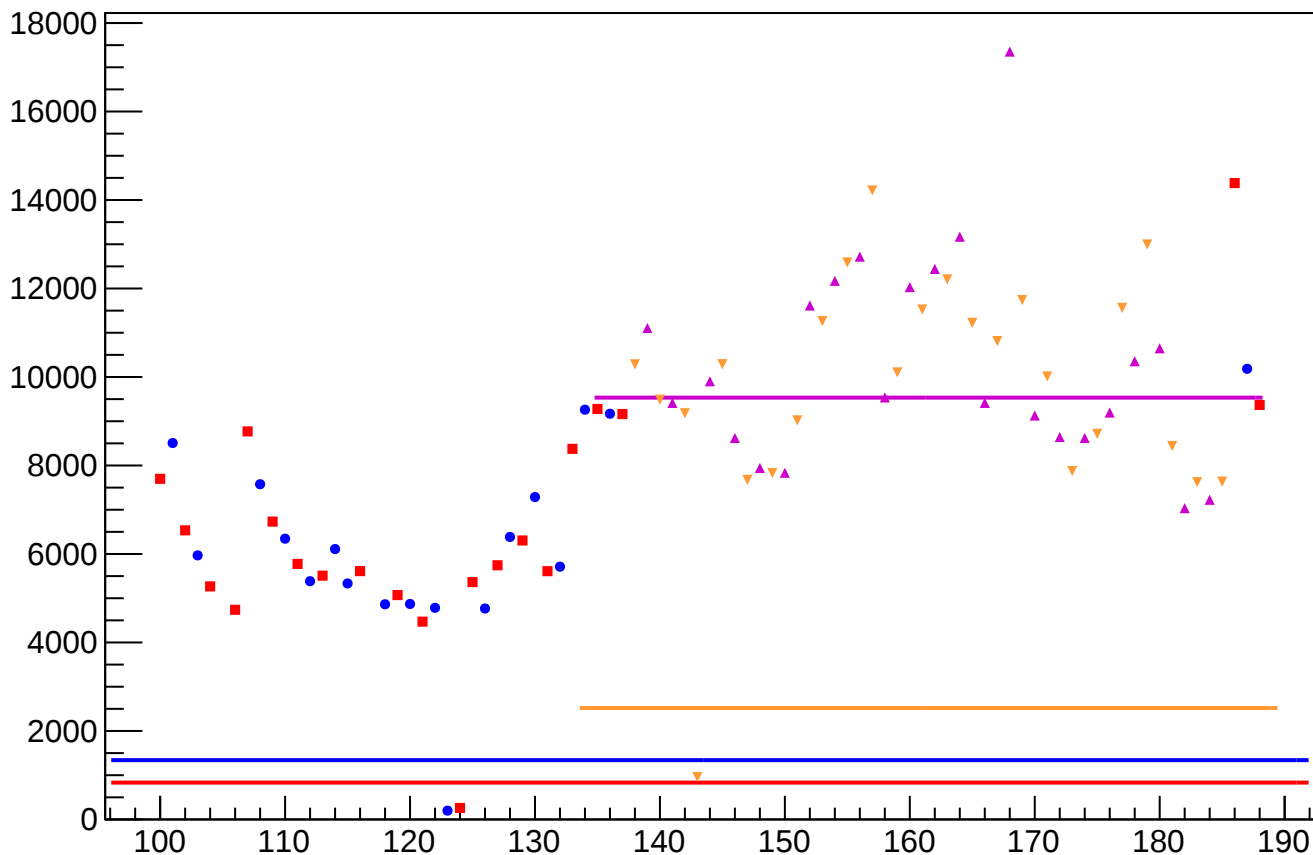
Right: -706.429+/-579.216 χ^2/NDF : 47.9/38

In: -1242.016+/-960.277 χ^2/NDF : 30.0/40

Out: -795.769+/-568.489 χ^2/NDF : 64.7/45

All: -911.578+/-489.193 χ^2/NDF : 94.9/86

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1340.390 $\pm$ 0.745

χ^2/NDF : 10255819.3/17

Left Out: 2519.359 $\pm$ 0.702

χ^2/NDF : 23642118.3/24

Right Out: 833.545 $\pm$ 0.490

χ^2/NDF : 13564495.1/20

Left In: 9533.563 $\pm$ 1.649

χ^2/NDF : 1316640.0/22

Left: 3596.432 $\pm$ 0.646

χ^2/NDF : 40280305.8/47

Right: 986.665 $\pm$ 0.410

χ^2/NDF : 24143199.7/38

In: 2730.224 $\pm$ 0.679

χ^2/NDF : 32080391.5/40

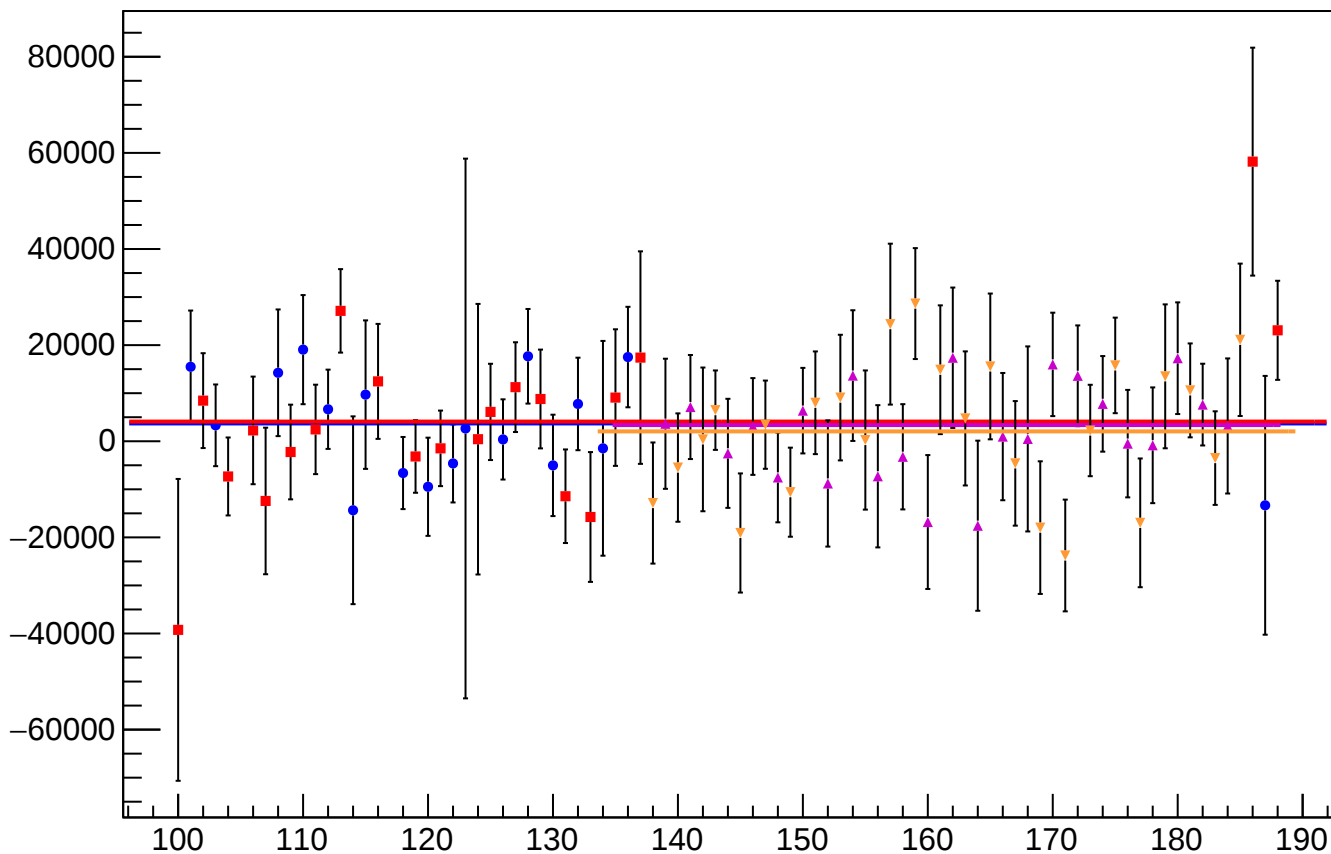
Out: 1386.008 $\pm$ 0.402

χ^2/NDF : 41081447.8/45

All: 1734.855 $\pm$ 0.346

χ^2/NDF : 76063786.9/8

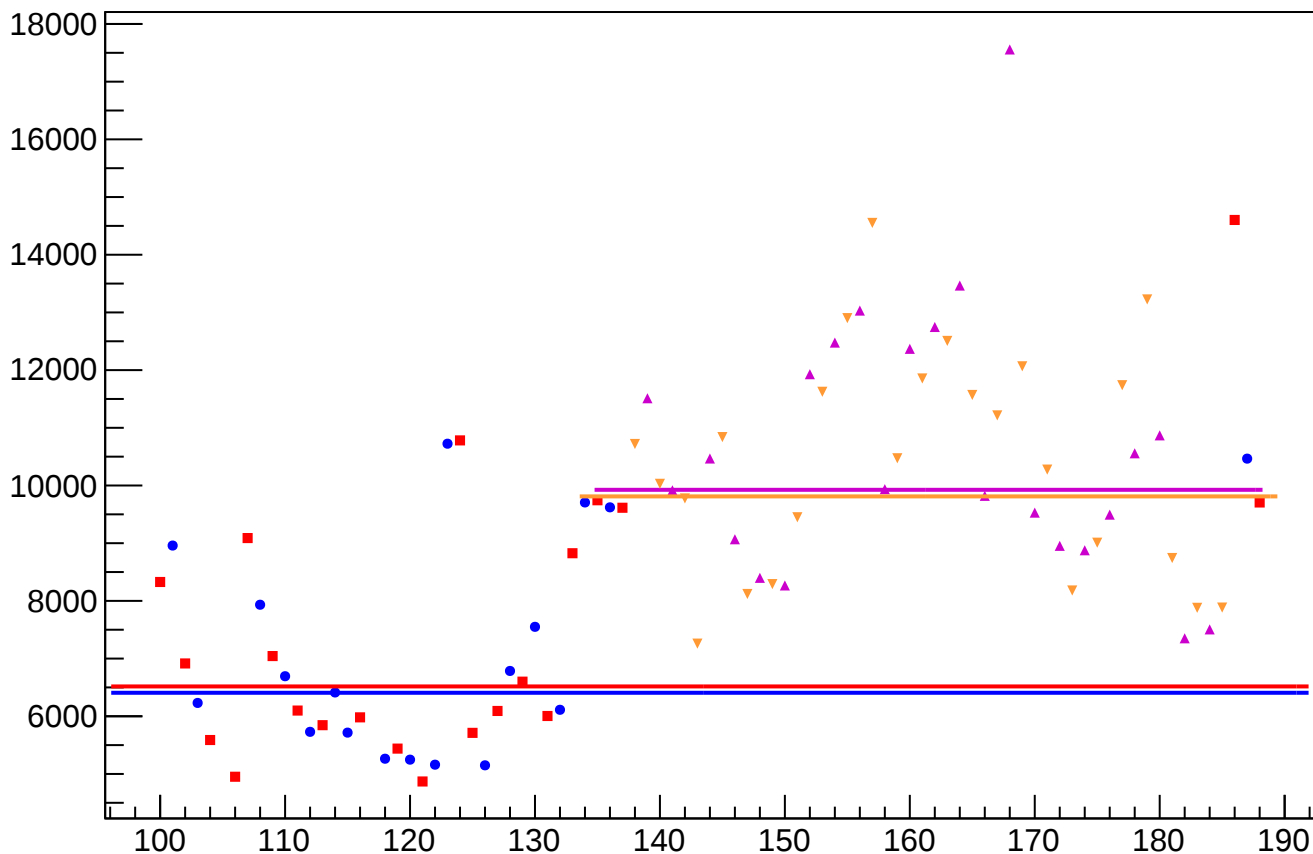
asym_atl2_mean vs Slug, Sign Corrected



Right In: 3706.363 $\pm$ 2531.833 χ^2 /NDF: 14.5/17
 Left Out: 2055.950 $\pm$ 2333.494 χ^2 /NDF:30.7/24
 Right Out: 4094.017 $\pm$ 2350.722 χ^2 /NDF: 29.3/20
 Left In: 3371.931 $\pm$ 2423.242 χ^2 /NDF:13.1/22

Left: 2689.120 $\pm$ 1680.862 χ^2 /NDF: 44.0/47
 Right: 3914.549 $\pm$ 1722.684 χ^2 /NDF: 43.8/38
 In: 3531.821 $\pm$ 1750.622 χ^2 /NDF:27.6/40
 Out: 3067.488 $\pm$ 1656.087 χ^2 /NDF:60.4/45
 All: 3286.779 $\pm$ 1203.063 χ^2 /NDF: 88.1/86

asym_atl2_rms vs Slug, Sign Corrected



Right In: 6407.147+/-1.790 χ^2/NDF : 624577.7/17

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

Right Out: 6517.019+/-1.662 χ^2/NDF : 979885.0/20

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

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

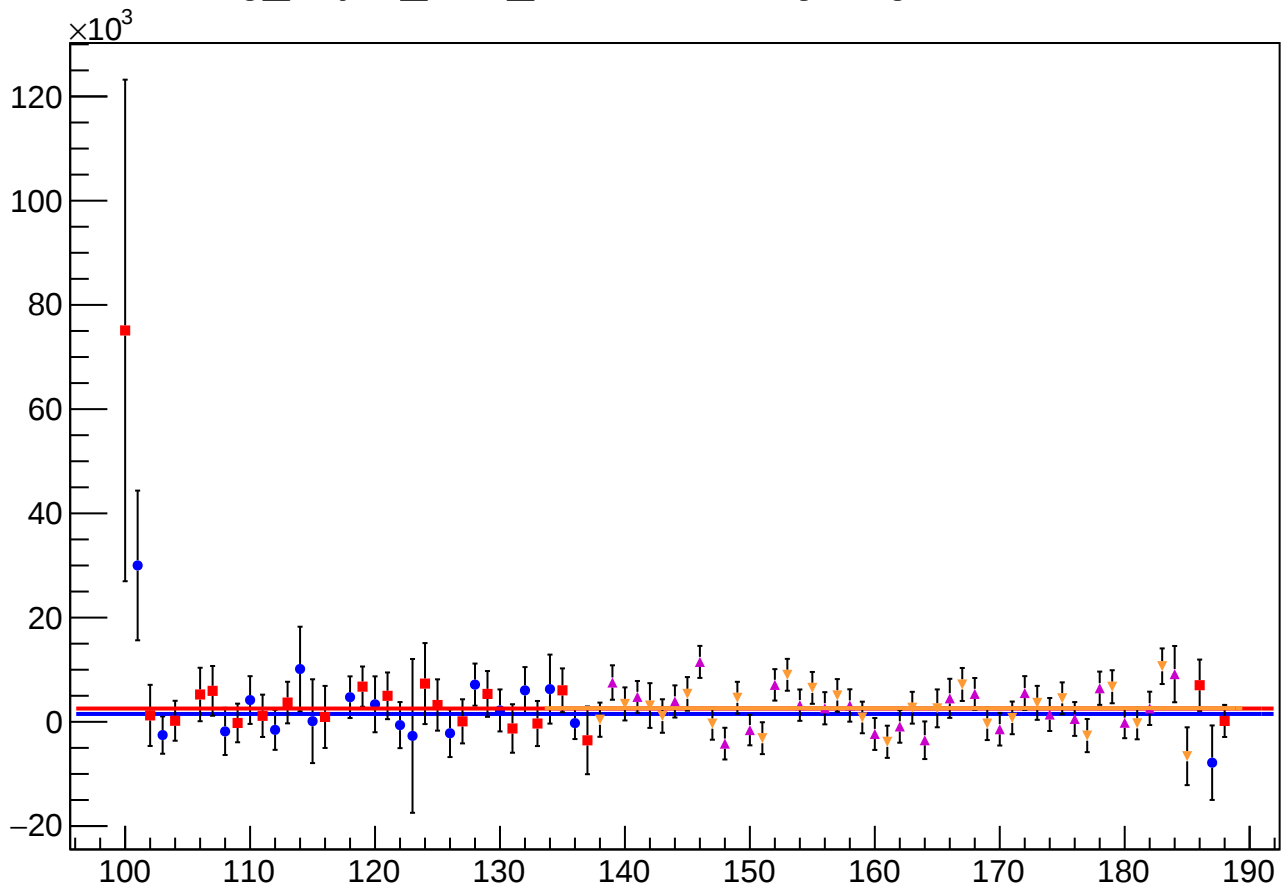
Right: 6466.155+/-1.218 χ^2/NDF : 1606485.5/38

In: 8243.298+/-1.238 χ^2/NDF : 3851673.4/40

Out: 8176.079+/-1.171 χ^2/NDF : 4171848.1/45

All: 8207.824+/-0.851 χ^2/NDF : 8025077.7/86

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1511.317+/-1117.395 χ^2/NDF : 15.2/17

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

Right Out: 2551.971+/-993.575 χ^2/NDF : 11.0/20

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

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

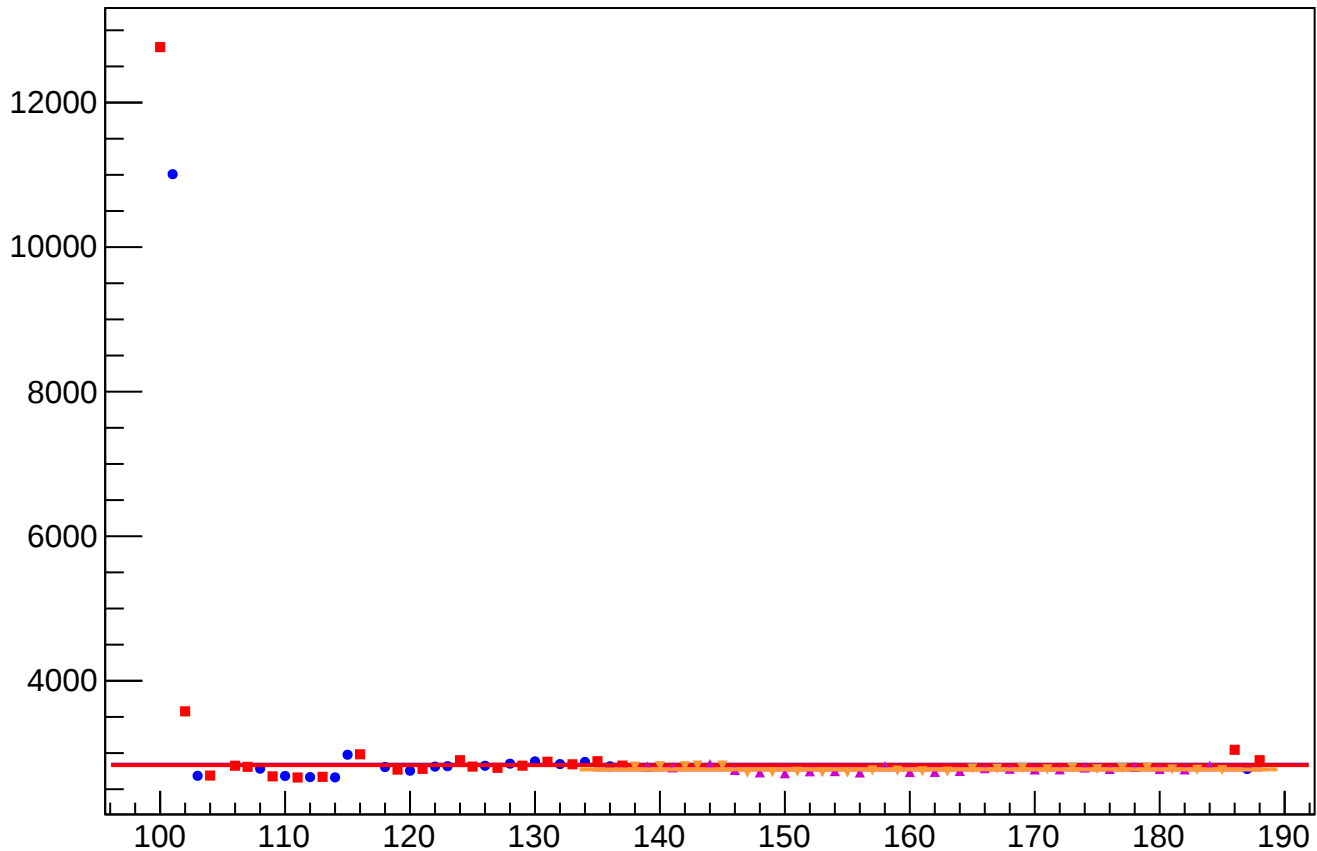
Right: 2092.474+/-742.497 χ^2/NDF : 26.7/38

In: 2344.048+/-571.182 χ^2/NDF : 51.2/40

Out: 2610.909+/-541.662 χ^2/NDF : 46.1/45

All: 2484.553+/-393.035 χ^2/NDF : 97.4/86

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2838.844+/-0.790 χ^2/NDF : 660270.4/17

Left Out: 2773.713+/-0.457 χ^2/NDF : 4616.5/24

Right Out: 2833.094+/-0.703 χ^2/NDF : 138339.0/20

Left In: 2774.036+/-0.470 χ^2/NDF : 4985.3/22

Left: 2773.870+/-0.328 χ^2/NDF : 9602.0/47

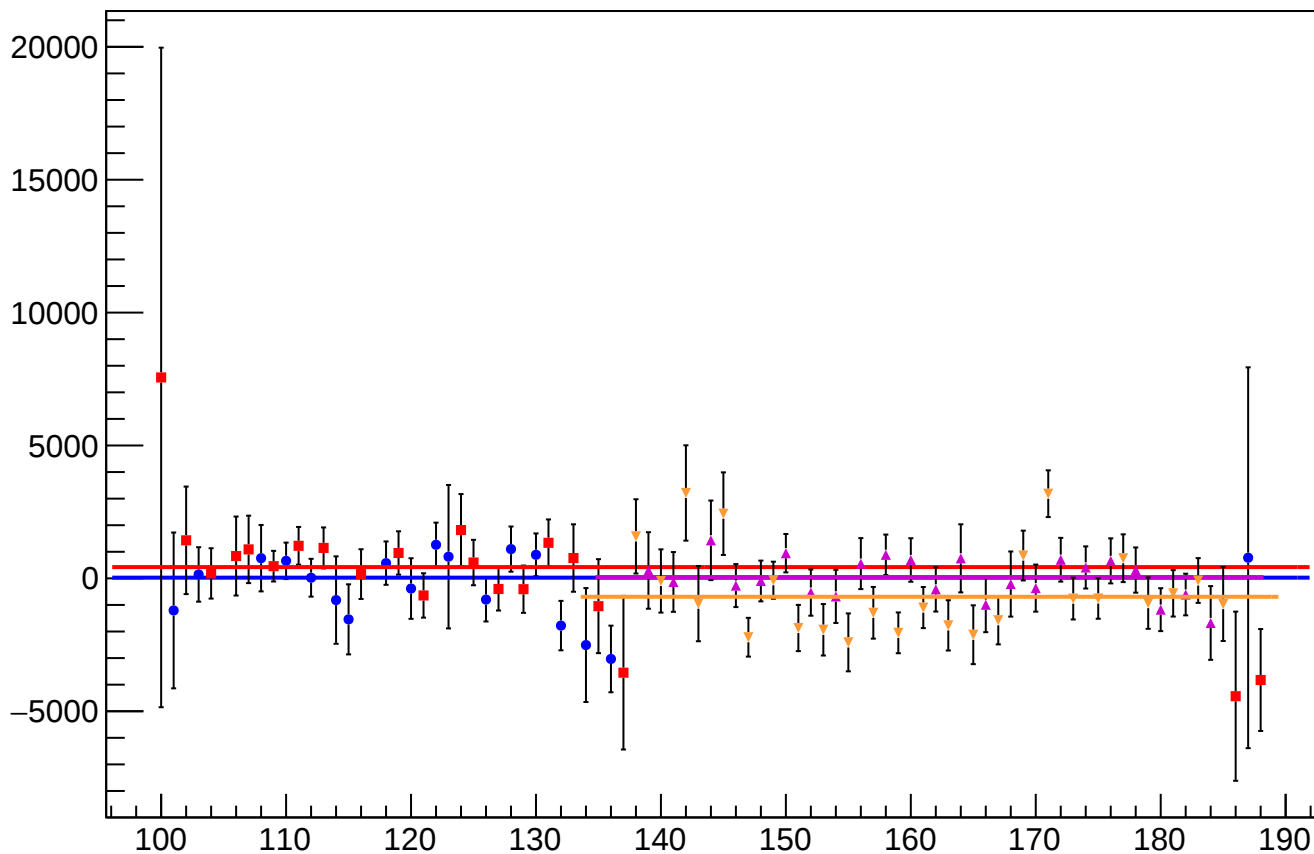
Right: 2835.633+/-0.525 χ^2/NDF : 798638.9/38

In: 2790.970+/-0.404 χ^2/NDF : 670225.7/40

Out: 2791.362+/-0.383 χ^2/NDF : 147975.9/45

All: 2791.176+/-0.278 χ^2/NDF : 818202.1/86

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: 26.602 $\pm$ 242.317 χ^2/NDF : 20.8/17

Left Out: -692.808 $\pm$ 187.297 χ^2/NDF :56.0/24

Right Out: 424.238 $\pm$ 220.175 χ^2/NDF : 19.3/20

Left In: 49.244 $\pm$ 189.190 χ^2/NDF :13.6/22

Left: -325.512 $\pm$ 133.103 χ^2/NDF : 77.4/47

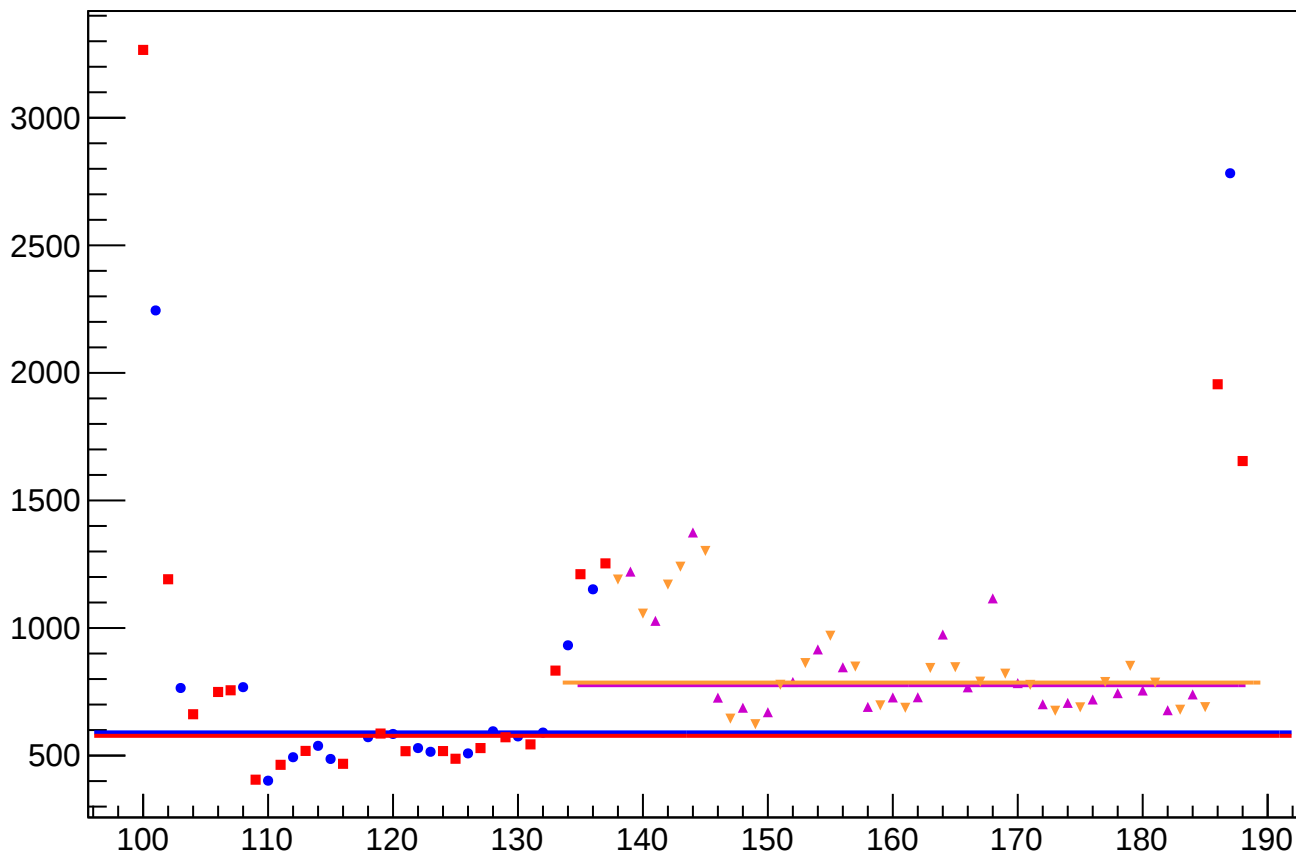
Right: 244.413 $\pm$ 162.954 χ^2/NDF : 41.5/38

In: 40.669 $\pm$ 149.122 χ^2/NDF :34.4/40

Out: -223.832 $\pm$ 142.662 χ^2/NDF :90.2/45

All: -97.435 $\pm$ 103.085 χ^2/NDF : 126.3/86

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 590.891+/-0.171 χ^2/NDF : 1611298.7/17

Left Out: 786.173+/-0.132 χ^2/NDF :1249536.1/24

Right Out: 577.454+/-0.156 χ^2/NDF : 2128823.6/20

Left In: 775.930+/-0.134 χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094 χ^2/NDF : 2309263.4/47

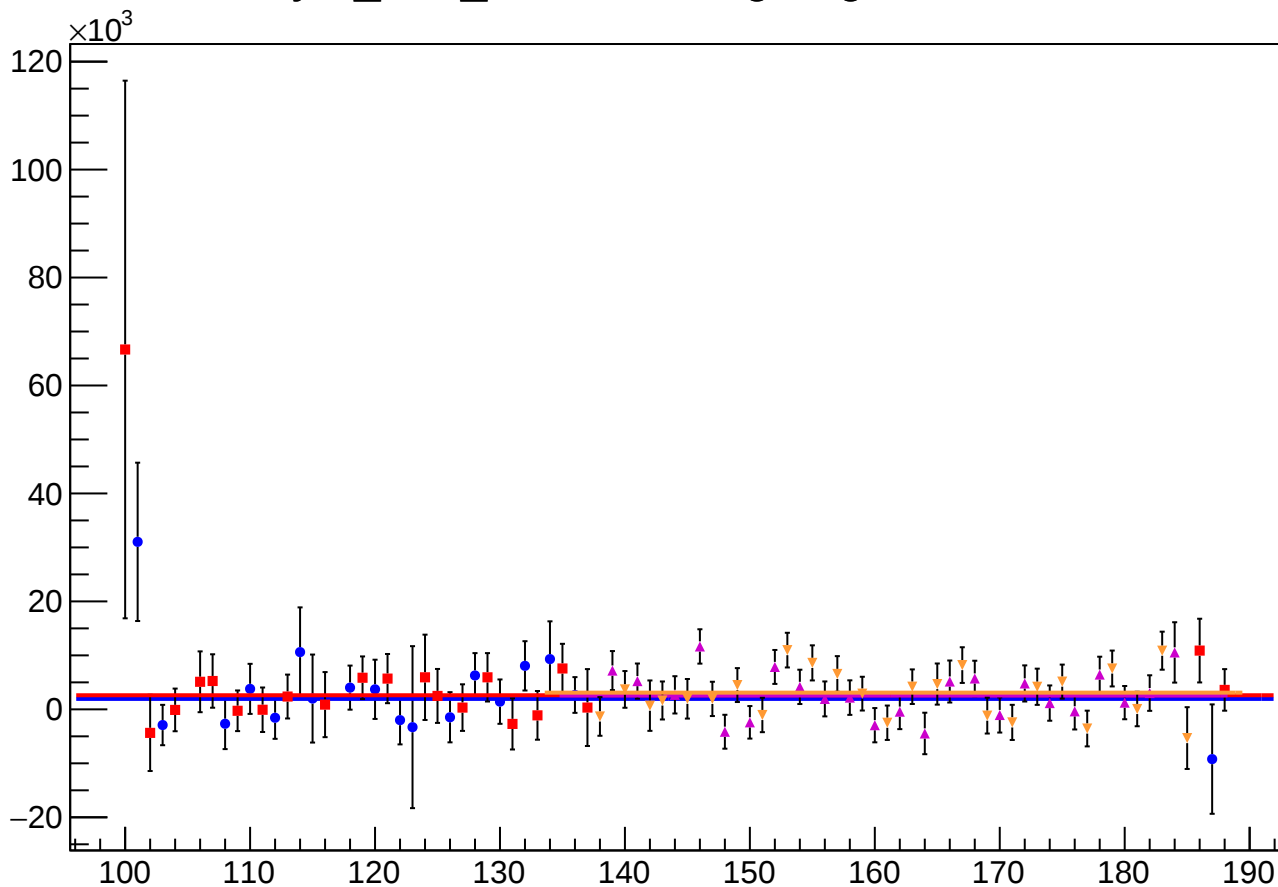
Right: 583.530+/-0.115 χ^2/NDF : 3743491.0/38

In: 705.852+/-0.105 χ^2/NDF :3392638.0/40

Out: 698.545+/-0.101 χ^2/NDF :4421091.6/45

All: 702.037+/-0.073 χ^2/NDF : 7816236.7/86

asym_atr1_mean vs Slug, Sign Corrected



Right In: 1935.057+/-1159.614 χ^2 /NDF: 15.7/17

Left Out: 3094.826+/-678.510 χ^2 /NDF:38.7/24

Right Out: 2611.647+/-1052.141 χ^2 /NDF: 12.1/20

Left In: 2573.184+/-695.795 χ^2 /NDF:35.7/22

Left: 2840.565+/-485.775 χ^2 /NDF: 74.6/47

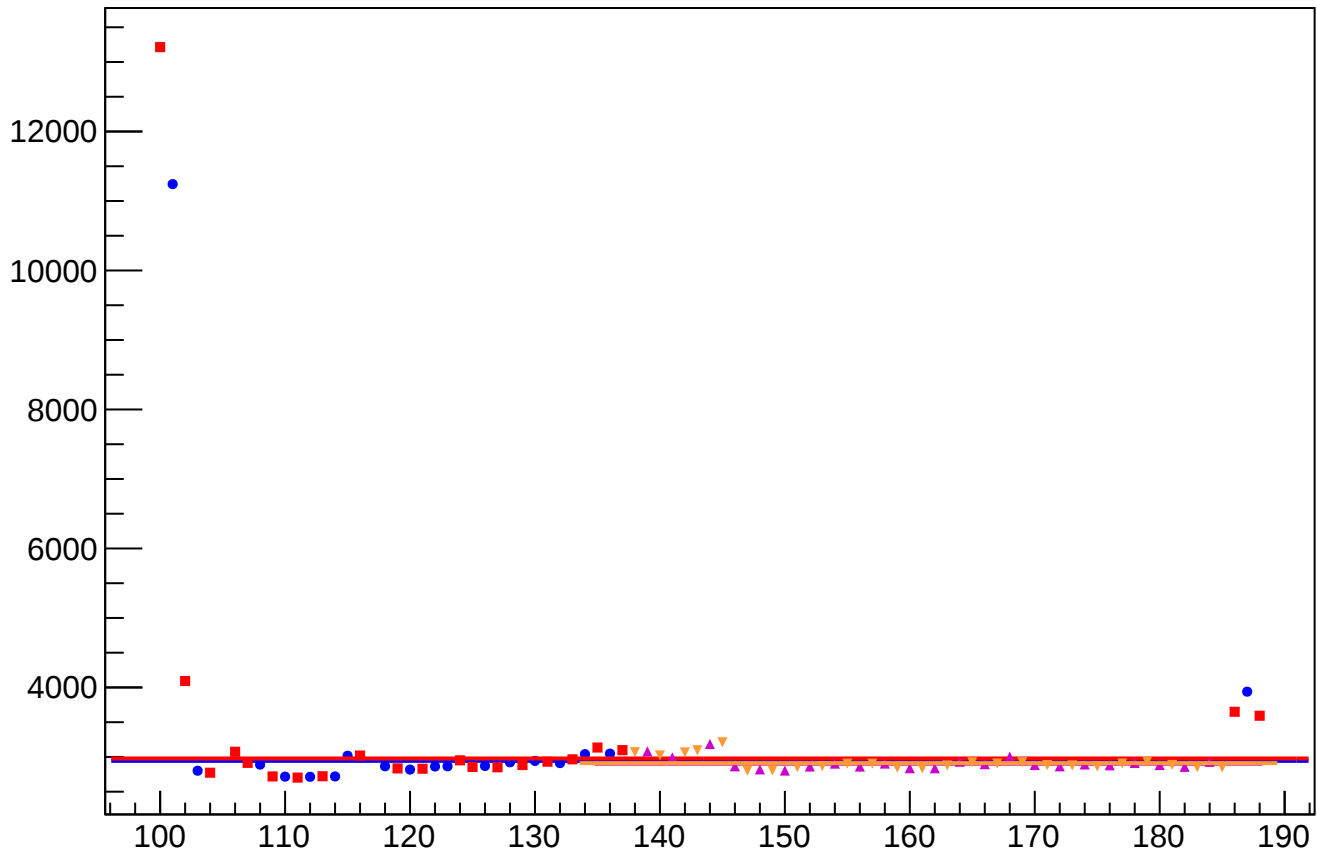
Right: 2306.151+/-779.208 χ^2 /NDF: 28.0/38

In: 2404.259+/-596.633 χ^2 /NDF:51.6/40

Out: 2952.904+/-570.222 χ^2 /NDF:50.9/45

All: 2690.994+/-412.228 χ^2 /NDF: 102.9/86

asym_atr1_rms vs Slug, Sign Corrected



Right In: 2943.773+/-0.820 χ^2/NDF : 681669.3/17

Left Out: 2911.226+/-0.480 χ^2/NDF : 36644.3/24

Right Out: 2978.046+/-0.744 χ^2/NDF : 255517.5/20

Left In: 2903.411+/-0.492 χ^2/NDF : 28838.5/22

Left: 2907.416+/-0.343 χ^2/NDF : 65612.1/47

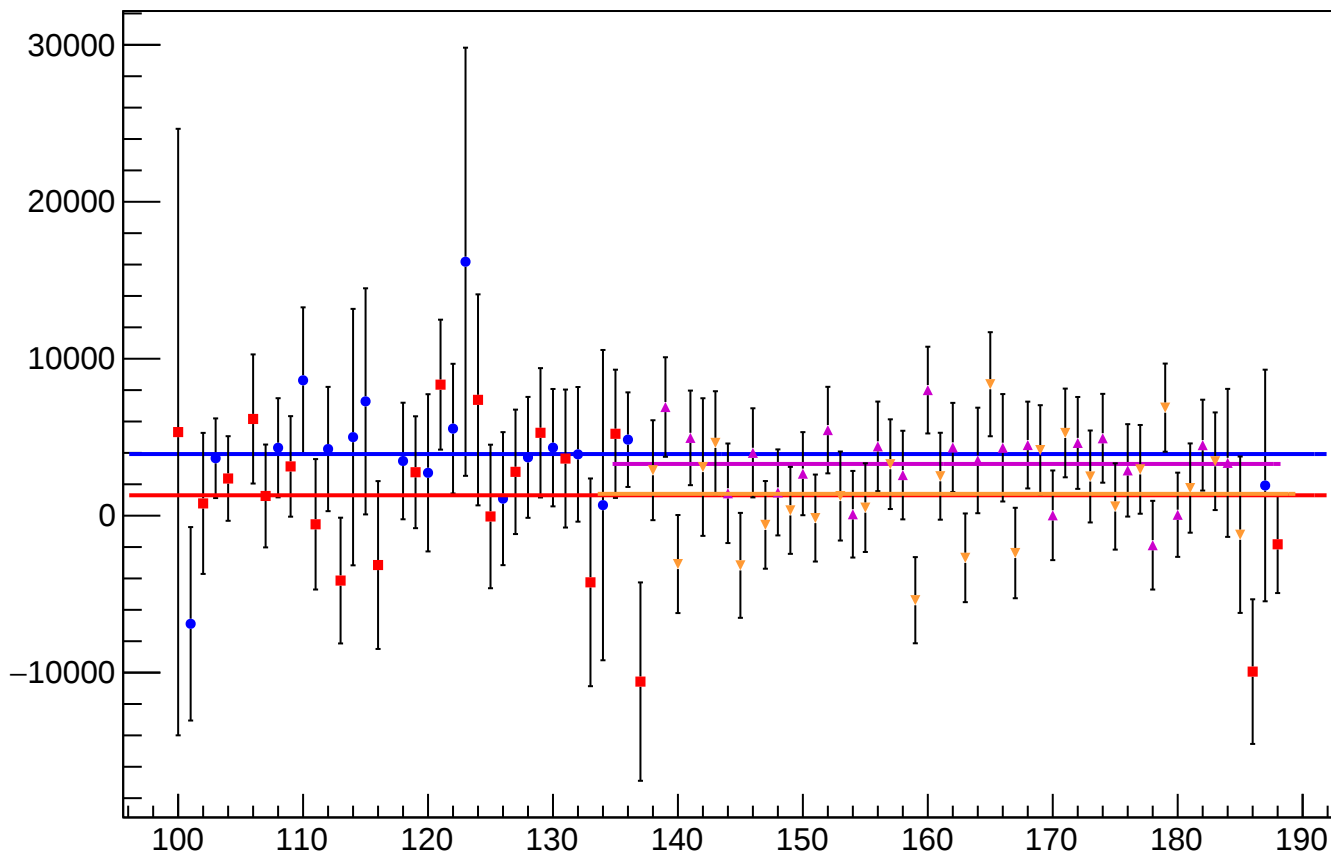
Right: 2962.571+/-0.551 χ^2/NDF : 938145.1/38

In: 2914.095+/-0.422 χ^2/NDF : 712289.5/40

Out: 2930.852+/-0.403 χ^2/NDF : 297859.1/45

All: 2922.853+/-0.291 χ^2/NDF : 1010973.1/86

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3926.262 $\pm$ 1004.999 χ^2 /NDF: 6.1/17

Left Out: 1390.275 $\pm$ 596.516 χ^2 /NDF: 29.2/24

Right Out: 1299.054 $\pm$ 900.061 χ^2 /NDF: 22.1/20

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

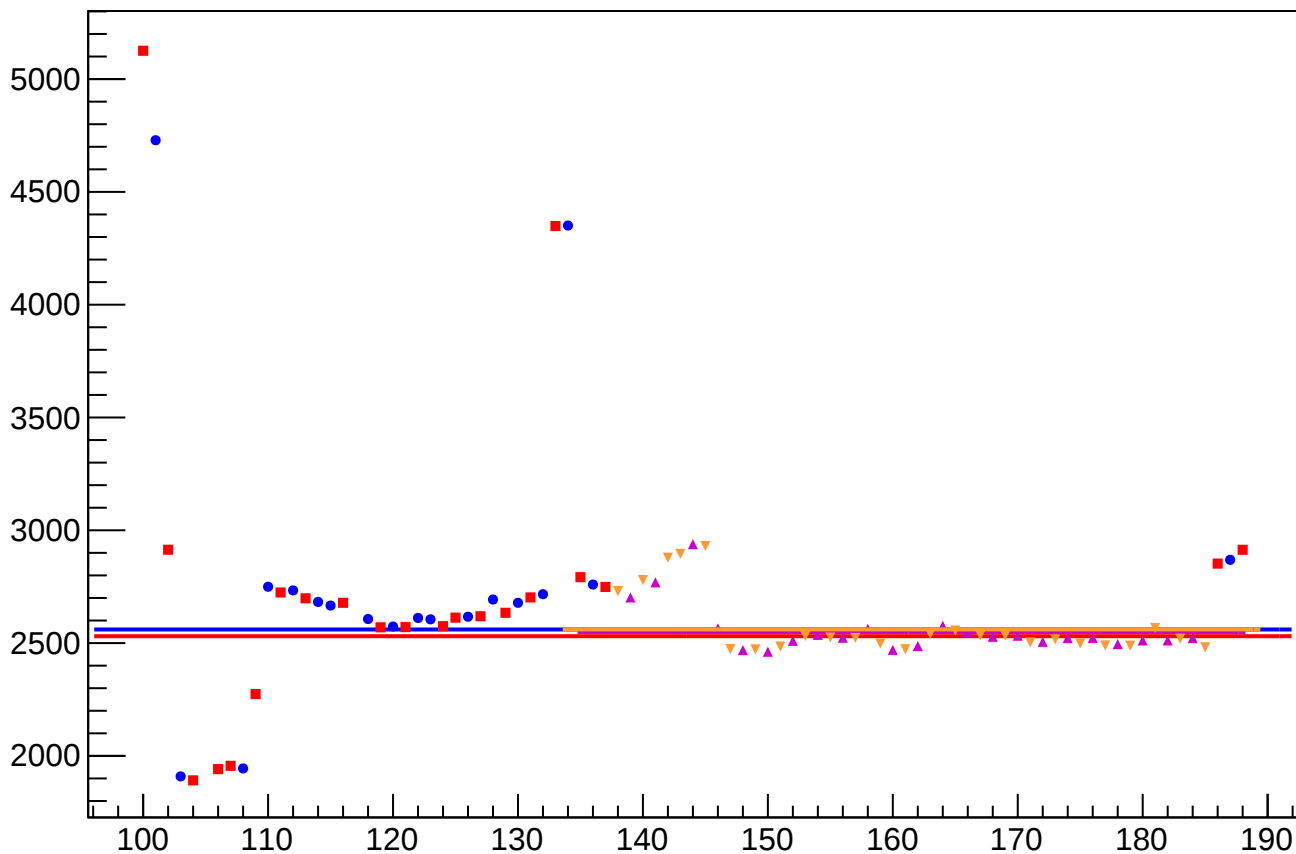
Right: 2468.380 $\pm$ 670.480 χ^2 /NDF: 32.0/38

In: 3465.215 $\pm$ 521.456 χ^2 /NDF: 21.3/40

Out: 1362.435 $\pm$ 497.228 χ^2 /NDF: 51.3/45

All: 2363.843 $\pm$ 359.854 χ^2 /NDF: 81.1/86

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2560.342 $\pm$ 0.711 χ^2 /NDF: 549338.7/17

Left Out: 2560.531 $\pm$ 0.422 χ^2 /NDF: 86771.4/24

Right Out: 2530.536 $\pm$ 0.636 χ^2 /NDF: 496004.7/20

Left In: 2548.870 $\pm$ 0.431 χ^2 /NDF: 55266.2/22

Left: 2554.831 $\pm$ 0.302 χ^2 /NDF: 142411.2/47

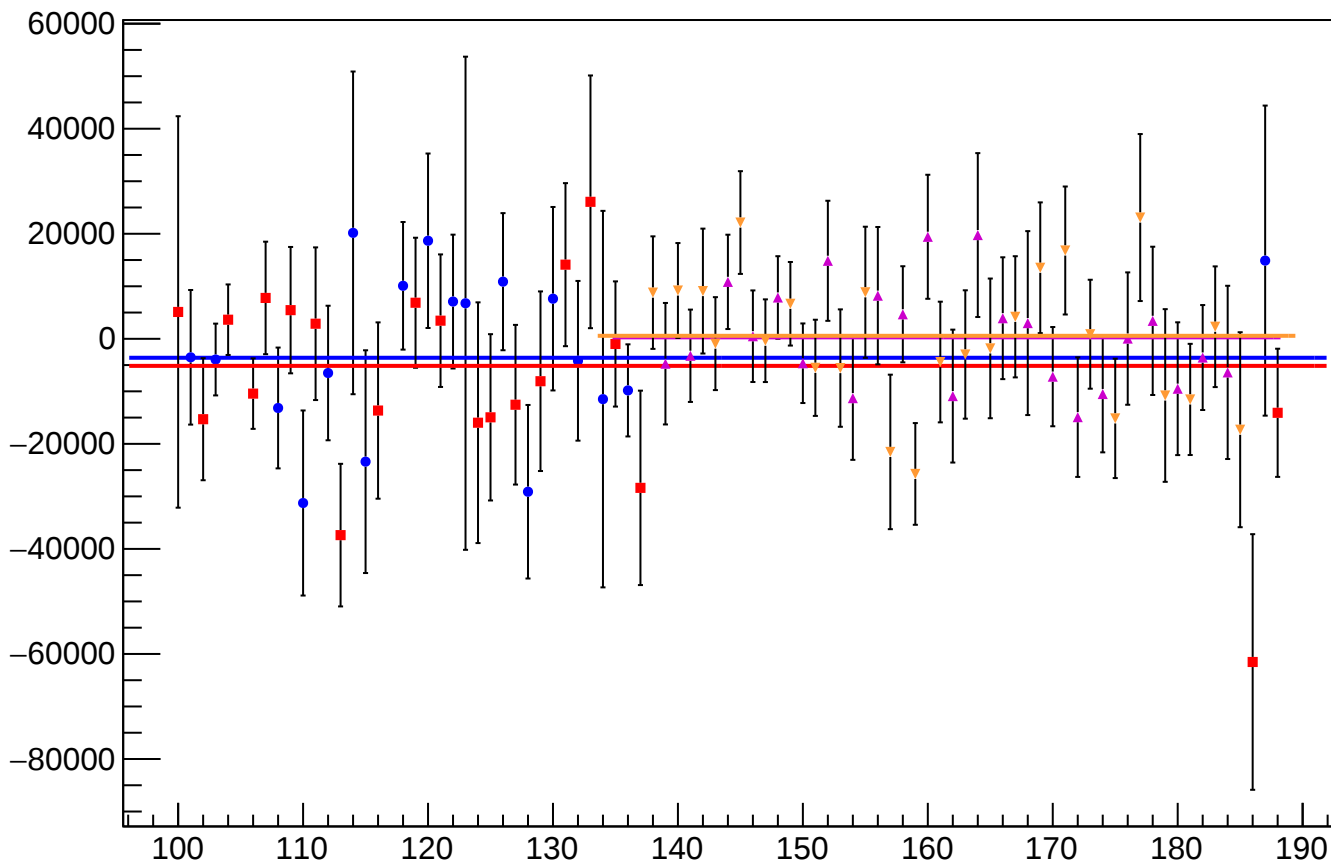
Right: 2543.802 $\pm$ 0.474 χ^2 /NDF: 1046319.6/38

In: 2551.958 $\pm$ 0.369 χ^2 /NDF: 604795.3/40

Out: 2551.377 $\pm$ 0.352 χ^2 /NDF: 584319.5/45

All: 2551.654 $\pm$ 0.254 χ^2 /NDF: 1189116.1/86

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -3608.051+/-3214.909 χ^2/NDF : 13.5/17

Left Out: 572.477+/-2184.376 χ^2/NDF : 28.2/24

Right Out: -5152.742+/-2746.812 χ^2/NDF : 24.7/20

Left In: 275.116+/-2242.836 χ^2/NDF : 15.7/22

Left: 427.723+/-1564.847 χ^2/NDF : 43.9/47

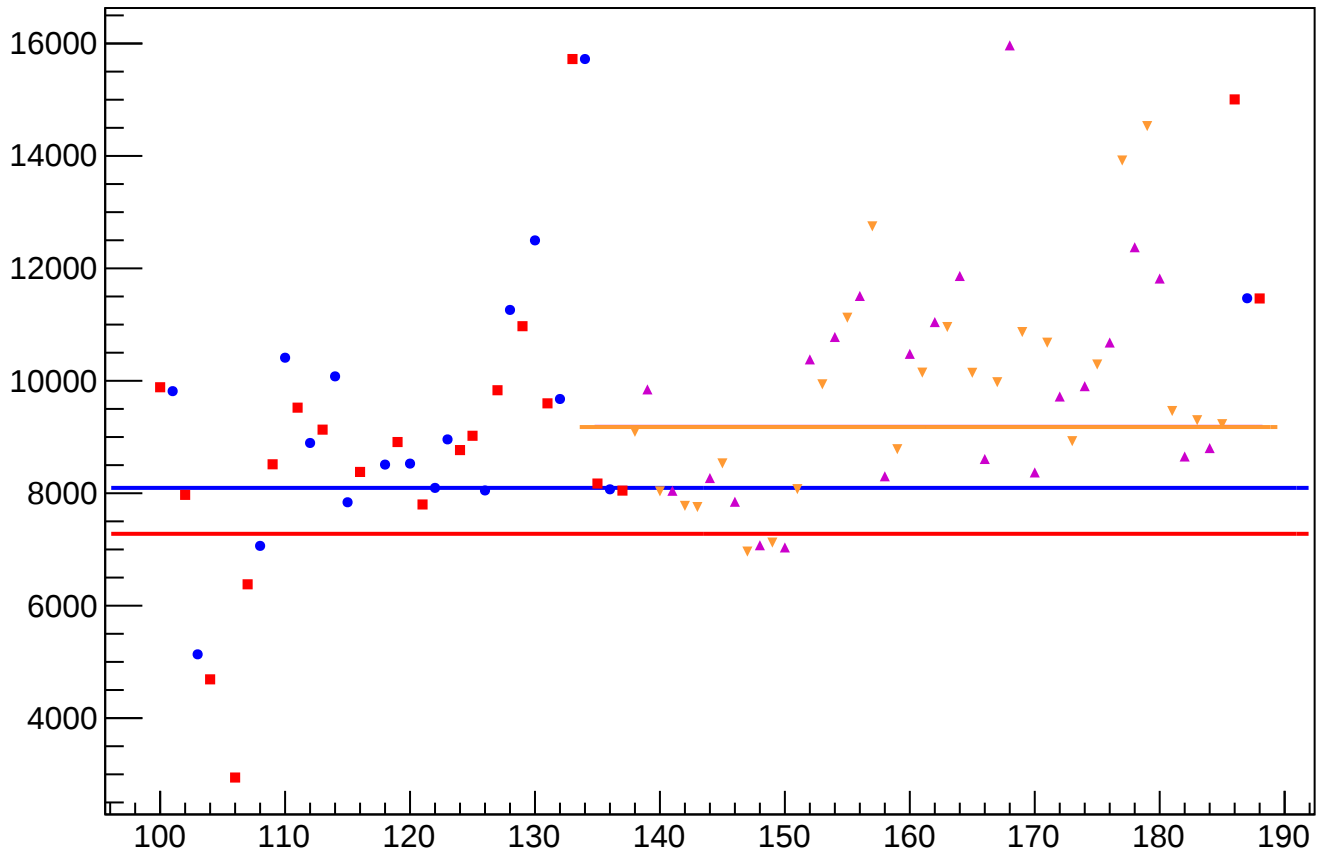
Right: -4500.938+/-2088.365 χ^2/NDF : 38.3/38

In: -996.106+/-1839.444 χ^2/NDF : 30.1/40

Out: -1645.517+/-1709.673 χ^2/NDF : 55.6/45

All: -1344.525+/-1252.288 χ^2/NDF : 85.8/86

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 8095.353+/-2.273 χ^2/NDF : 821770.1/17

Left Out: 9177.688+/-1.545 χ^2/NDF : 1176195.8/24

Right Out: 7278.398+/-1.942 χ^2/NDF : 2241127.2/20

Left In: 9181.254+/-1.586 χ^2/NDF : 1236469.7/22

Left: 9179.424+/-1.107 χ^2/NDF : 2412668.1/47

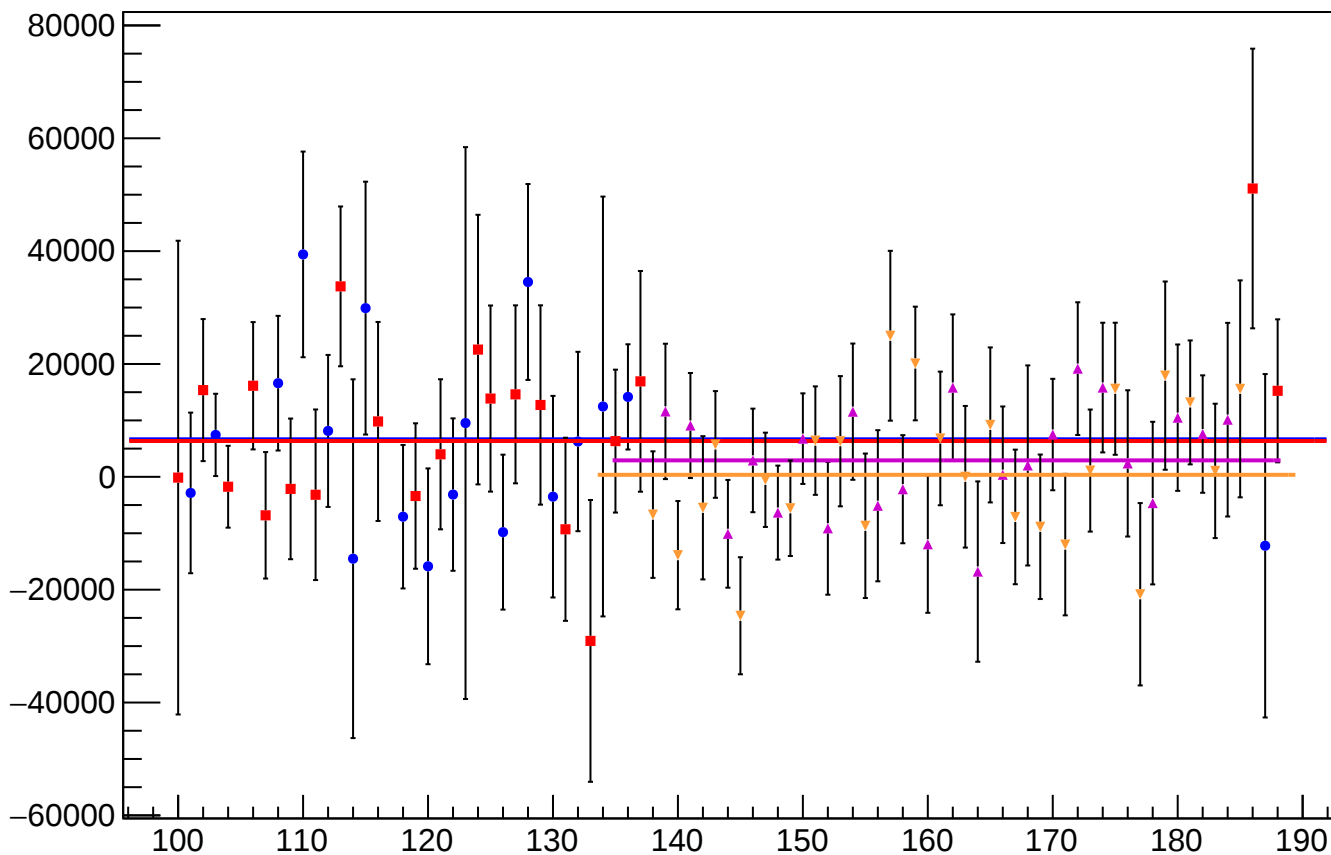
Right: 7623.124+/-1.477 χ^2/NDF : 3137549.8/38

In: 8825.765+/-1.301 χ^2/NDF : 2211719.5/40

Out: 8441.888+/-1.209 χ^2/NDF : 4003091.3/45

All: 8619.809+/-0.886 χ^2/NDF : 6261543.8/86

asym_atr2_mean vs Slug, Sign Corrected



Right In: 6648.810+/-3396.339 χ^2/NDF : 14.7/17

Left Out: 355.717+/-2281.682 χ^2/NDF : 26.2/24

Right Out: 6350.559+/-3054.778 χ^2/NDF : 17.2/20

Left In: 2918.356+/-2338.461 χ^2/NDF : 14.9/22

Left: 1605.548+/-1633.097 χ^2/NDF : 41.8/47

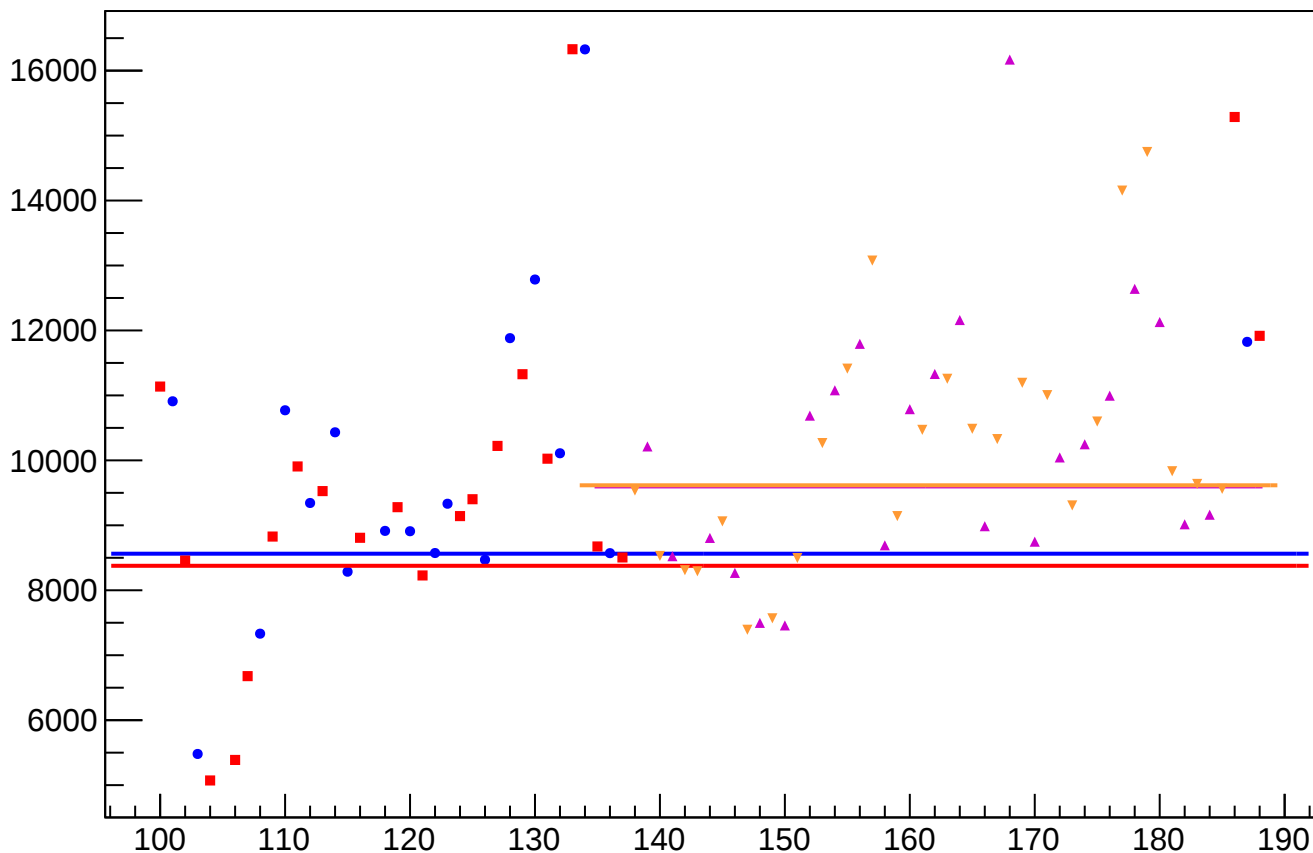
Right: 6483.937+/-2271.239 χ^2/NDF : 31.9/38

In: 4118.085+/-1926.069 χ^2/NDF : 30.4/40

Out: 2502.515+/-1828.043 χ^2/NDF : 45.9/45

All: 3268.143+/-1325.922 χ^2/NDF : 76.7/86

asym_atr2_rms vs Slug, Sign Corrected



Right In: 8562.976 $\pm$ 2.402 χ^2 /NDF: 793137.1/17

Left Out: 9616.245 $\pm$ 1.613 χ^2 /NDF: 1011665.6/24

Right Out: 8376.822 $\pm$ 2.160 χ^2 /NDF: 1287177.4/20

Left In: 9598.531 $\pm$ 1.654 χ^2 /NDF: 1082171.6/22

Left: 9607.606 $\pm$ 1.155 χ^2 /NDF: 2093896.0/47

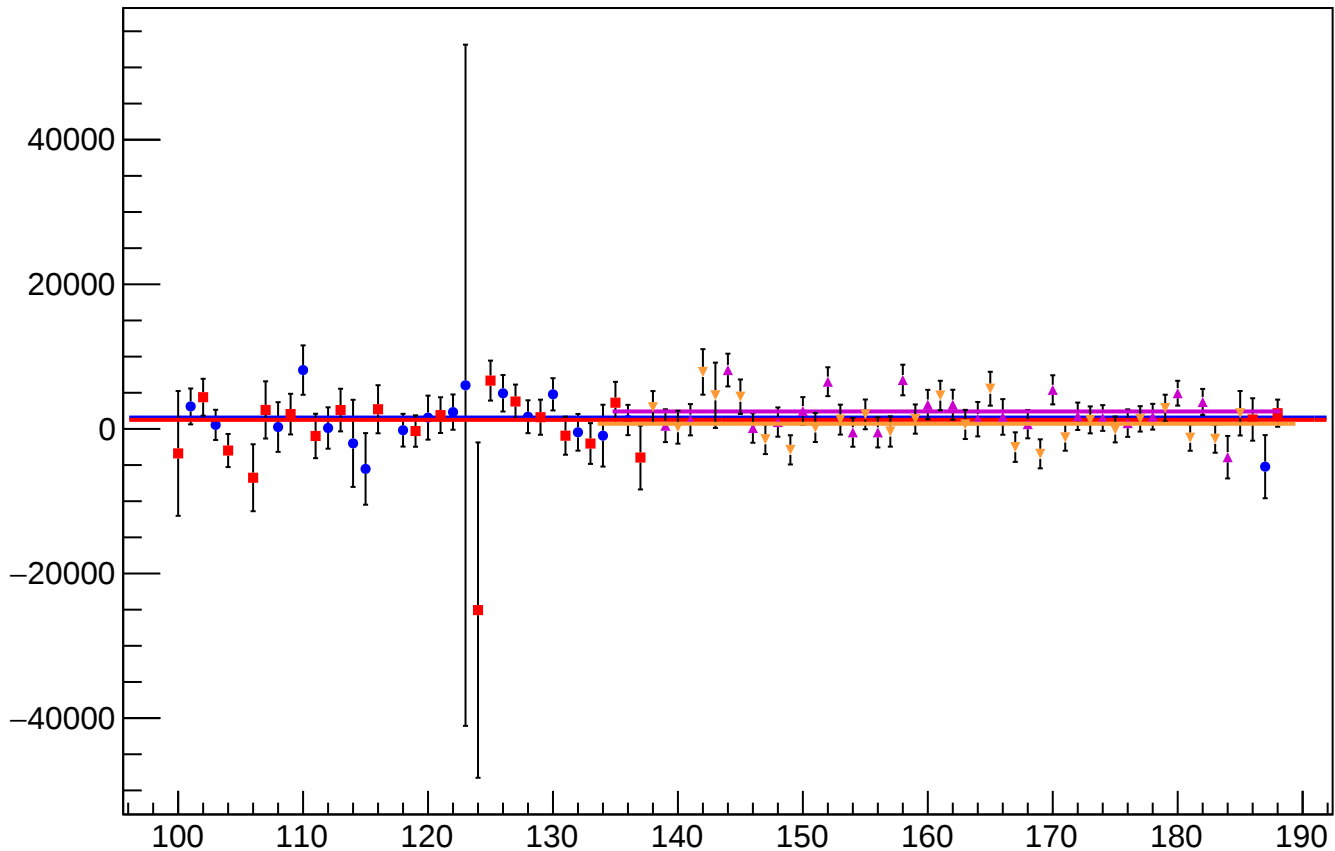
Right: 8460.067 $\pm$ 1.606 χ^2 /NDF: 2083636.0/38

In: 9265.492 $\pm$ 1.362 χ^2 /NDF: 2001444.3/40

Out: 9172.379 $\pm$ 1.293 χ^2 /NDF: 2510187.6/45

All: 9216.506 $\pm$ 0.938 χ^2 /NDF: 4514091.0/86

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1572.332+/-664.298 χ^2/NDF : 15.1/17

Left Out: 709.722+/-417.377 χ^2/NDF : 34.8/24

Right Out: 1253.456+/-619.239 χ^2/NDF : 20.6/20

Left In: 2414.749+/-423.472 χ^2/NDF : 34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

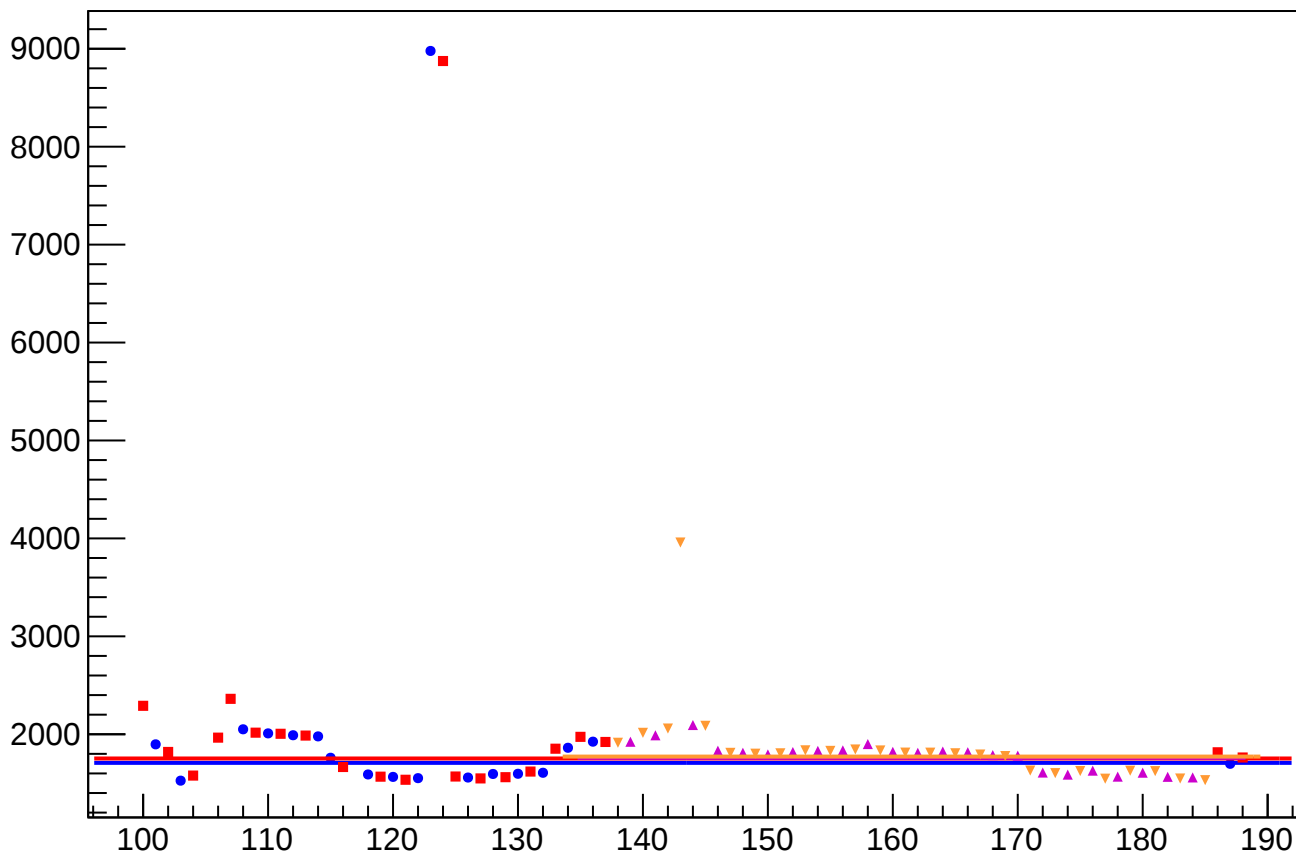
Right: 1401.713+/-452.961 χ^2/NDF : 35.9/38

In: 2171.332+/-357.087 χ^2/NDF : 50.2/40

Out: 879.575+/-346.100 χ^2/NDF : 56.0/45

All: 1505.276+/-248.523 χ^2/NDF : 113.0/86

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1707.967+/-0.470 χ^2/NDF : 195793.4/17

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1752.649+/-0.436 χ^2/NDF : 397437.1/20

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

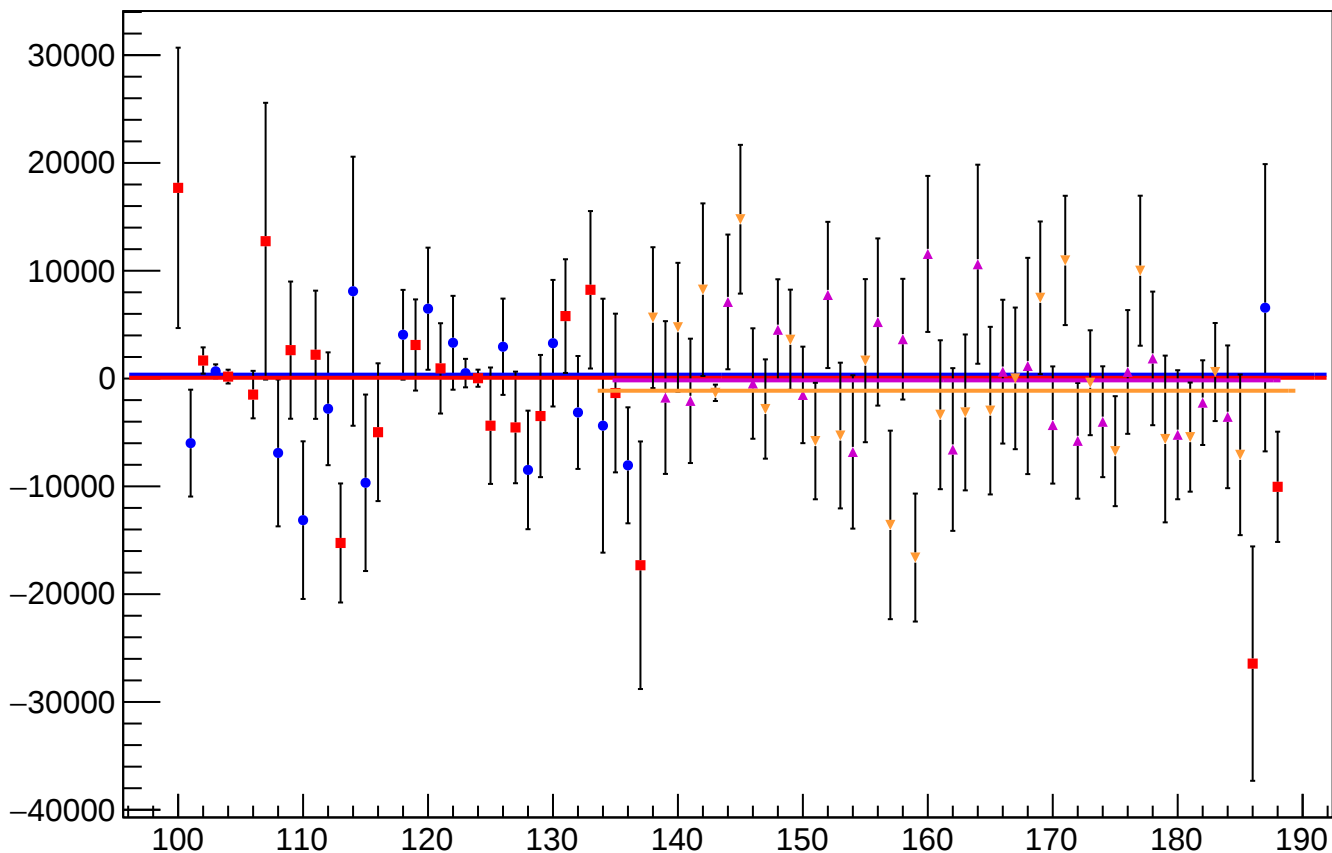
Right: 1731.959+/-0.320 χ^2/NDF : 598088.9/38

In: 1744.680+/-0.252 χ^2/NDF : 419275.9/40

Out: 1765.955+/-0.244 χ^2/NDF : 1101266.0/45

All: 1755.662+/-0.176 χ^2/NDF : 1524206.4/86

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 360.825 $\pm$ 540.220 χ^2/NDF : 17.5/17

Left Out: -1129.807 $\pm$ 647.600 χ^2/NDF : 31.5/24

Right Out: 73.281 $\pm$ 431.781 χ^2/NDF : 30.7/20

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

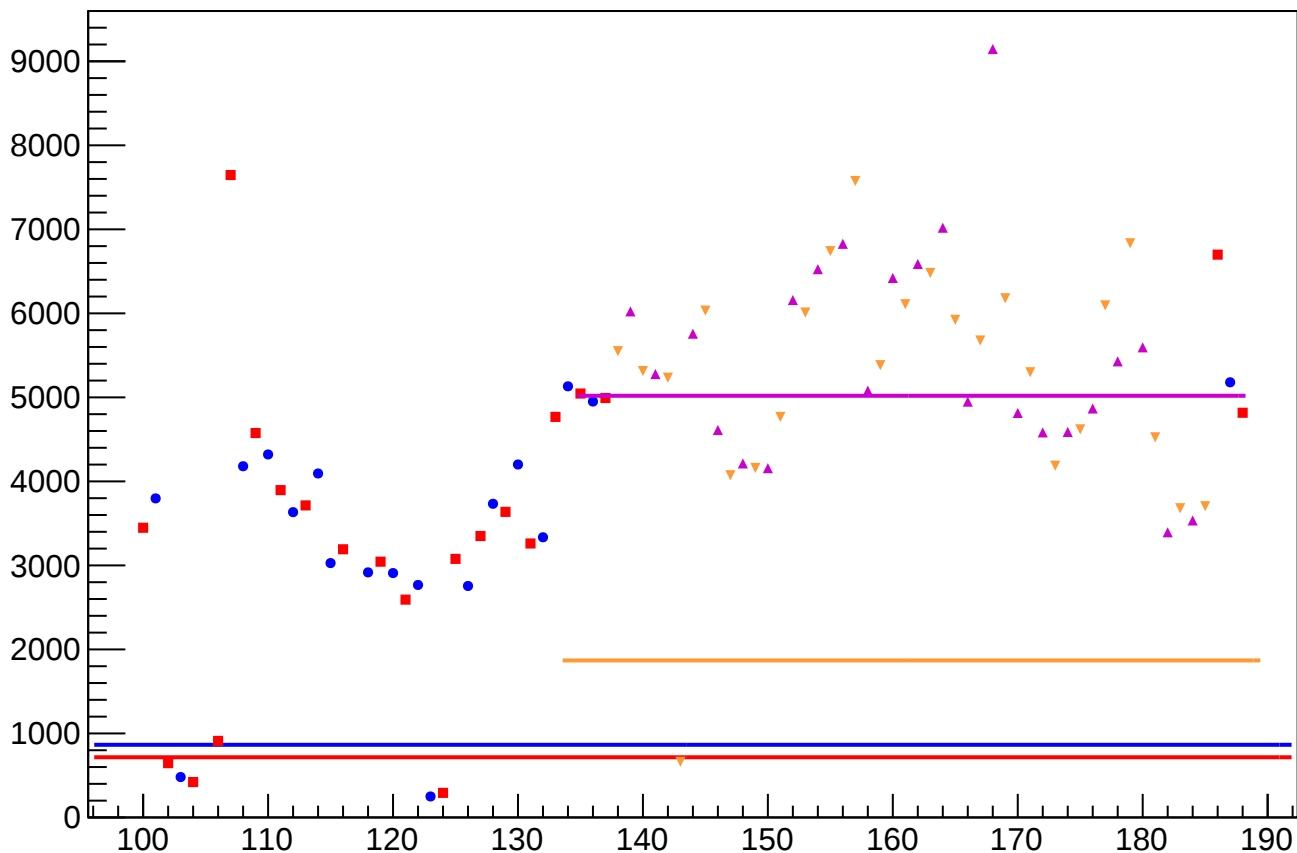
Right: 185.368 $\pm$ 337.285 χ^2/NDF : 48.4/38

In: 275.562 $\pm$ 494.773 χ^2/NDF : 31.8/40

Out: -296.957 $\pm$ 359.251 χ^2/NDF : 64.6/45

All: -99.316 $\pm$ 290.703 χ^2/NDF : 97.3/86

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 864.894+/-0.382 χ^2/NDF : 8336440.9/17

Left Out: 1868.983+/-0.458 χ^2/NDF : 19852416.6/24

Right Out: 716.376+/-0.305 χ^2/NDF : 10265032.8/20

Left In: 5019.114+/-0.871 χ^2/NDF : 1569031.9/22

Left: 2550.597+/-0.405 χ^2/NDF : 31661059.7/47

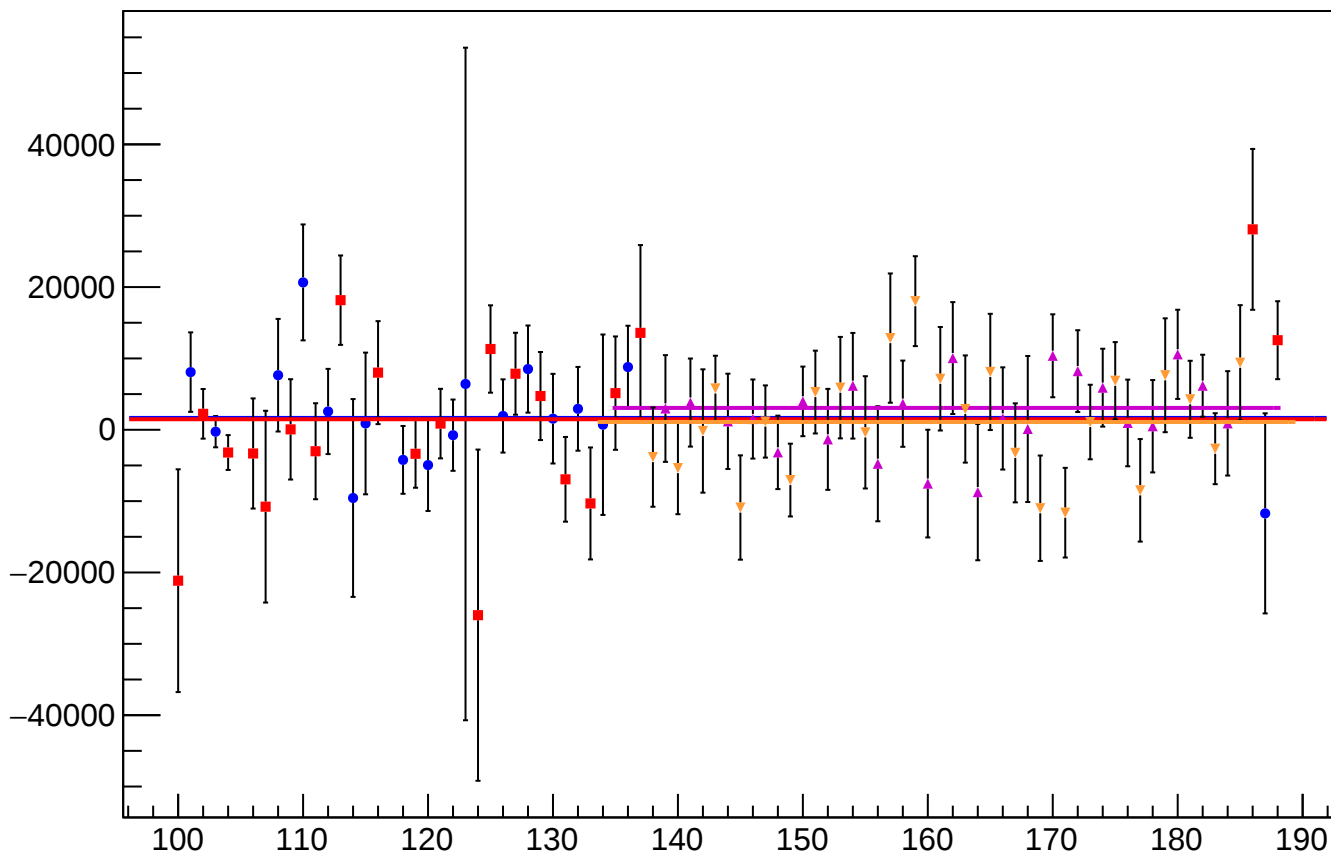
Right: 774.269+/-0.238 χ^2/NDF : 18693712.3/38

In: 1534.454+/-0.350 χ^2/NDF : 28967476.7/40

Out: 1071.079+/-0.254 χ^2/NDF : 34503251.4/45

All: 1231.041+/-0.206 χ^2/NDF : 64619372.9/86

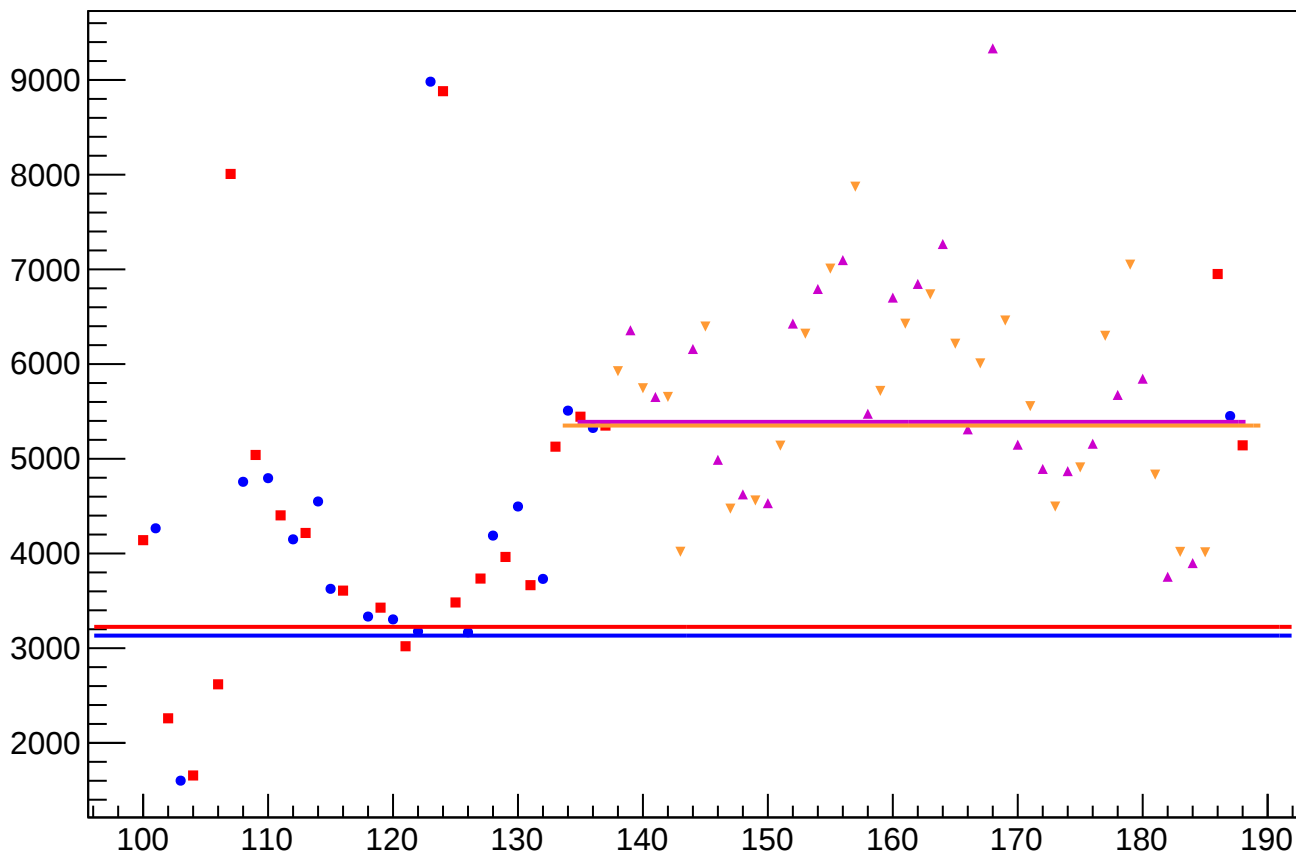
asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1660.857+/-1307.545 χ^2/NDF : 15.4/17
 Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24
 Right Out: 1476.997+/-1246.308 χ^2/NDF : 37.1/20
 Left In: 3064.775+/-1318.173 χ^2/NDF : 12.6/22

Left: 2045.291+/-915.742 χ^2/NDF : 45.7/47
 Right: 1564.521+/-902.145 χ^2/NDF : 52.5/38
 In: 2357.133+/-928.309 χ^2/NDF : 28.6/40
 Out: 1289.728+/-890.598 χ^2/NDF : 69.1/45
 All: 1801.310+/-642.666 χ^2/NDF : 98.4/86

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3132.928 $\pm$ 0.925 χ^2/NDF : 1937714.0/17

Left Out: 5350.804 $\pm$ 0.900 χ^2/NDF : 1241497.9/24

Right Out: 3225.236 $\pm$ 0.869 χ^2/NDF : 2500225.1/20

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

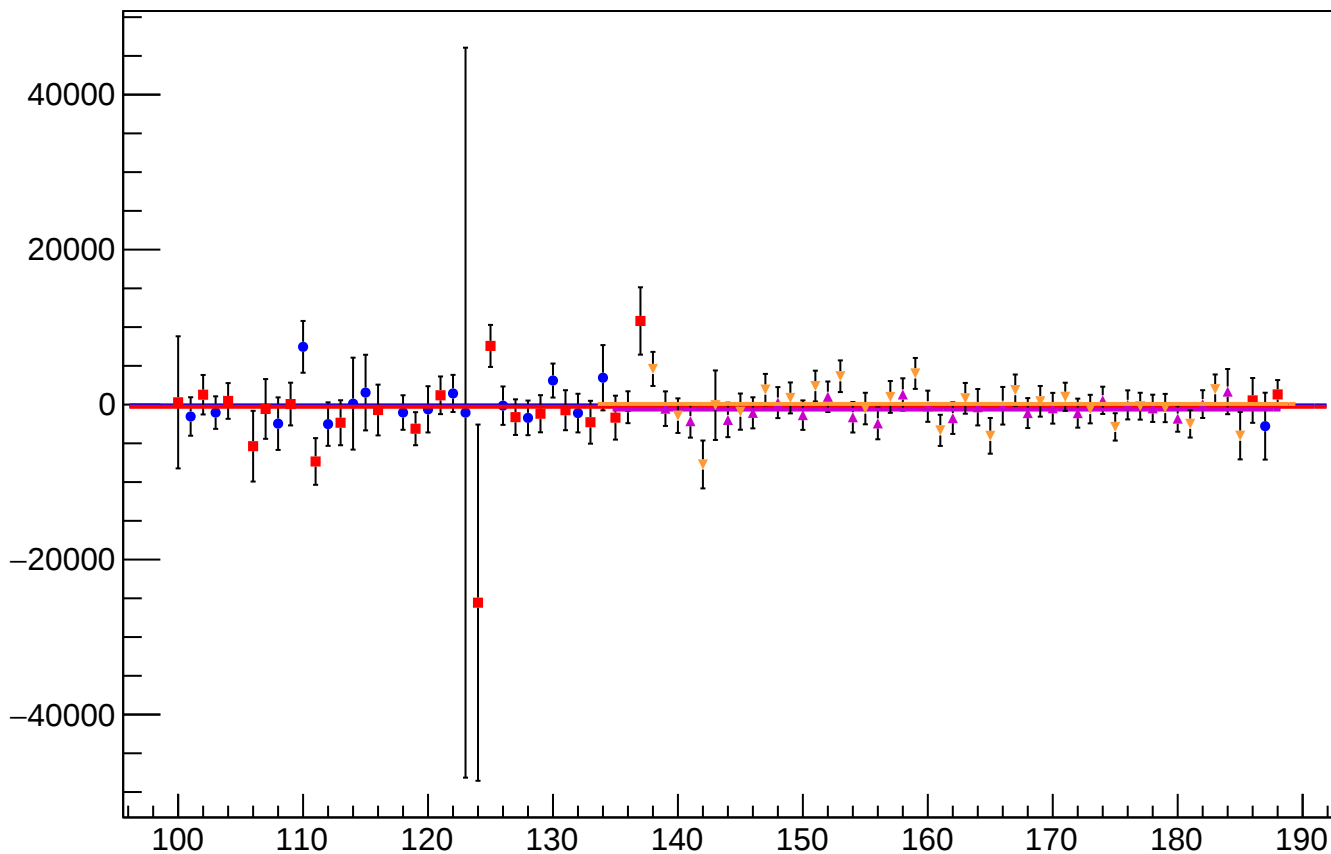
Right: 3181.924 $\pm$ 0.633 χ^2/NDF : 4443229.9/38

In: 4252.185 $\pm$ 0.656 χ^2/NDF : 6202480.4/40

Out: 4250.855 $\pm$ 0.625 χ^2/NDF : 6626710.5/45

All: 4251.488 $\pm$ 0.453 χ^2/NDF : 12829193.0/8

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -101.502 ± 655.155 χ^2/NDF : 11.5/17

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -282.023 ± 610.310 χ^2/NDF : 28.1/20

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

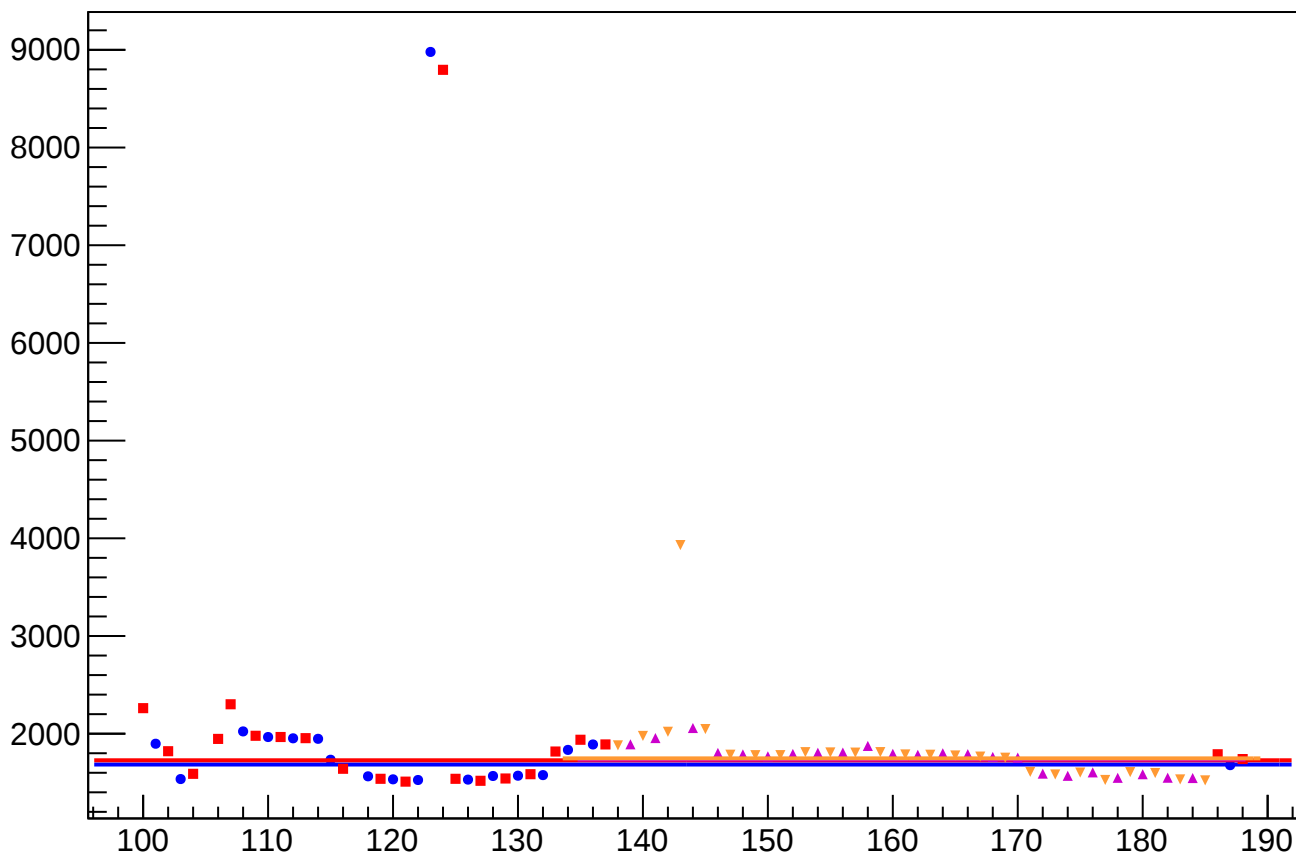
Right: -198.152 ± 446.567 χ^2/NDF : 39.6/38

In: -484.567 ± 352.173 χ^2/NDF : 18.2/40

Out: -28.883 ± 341.208 χ^2/NDF : 64.4/45

All: -249.520 ± 245.055 χ^2/NDF : 83.4/86

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1684.519+/-0.463 χ^2/NDF : 194023.7/17

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1727.838+/-0.430 χ^2/NDF : 393660.7/20

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

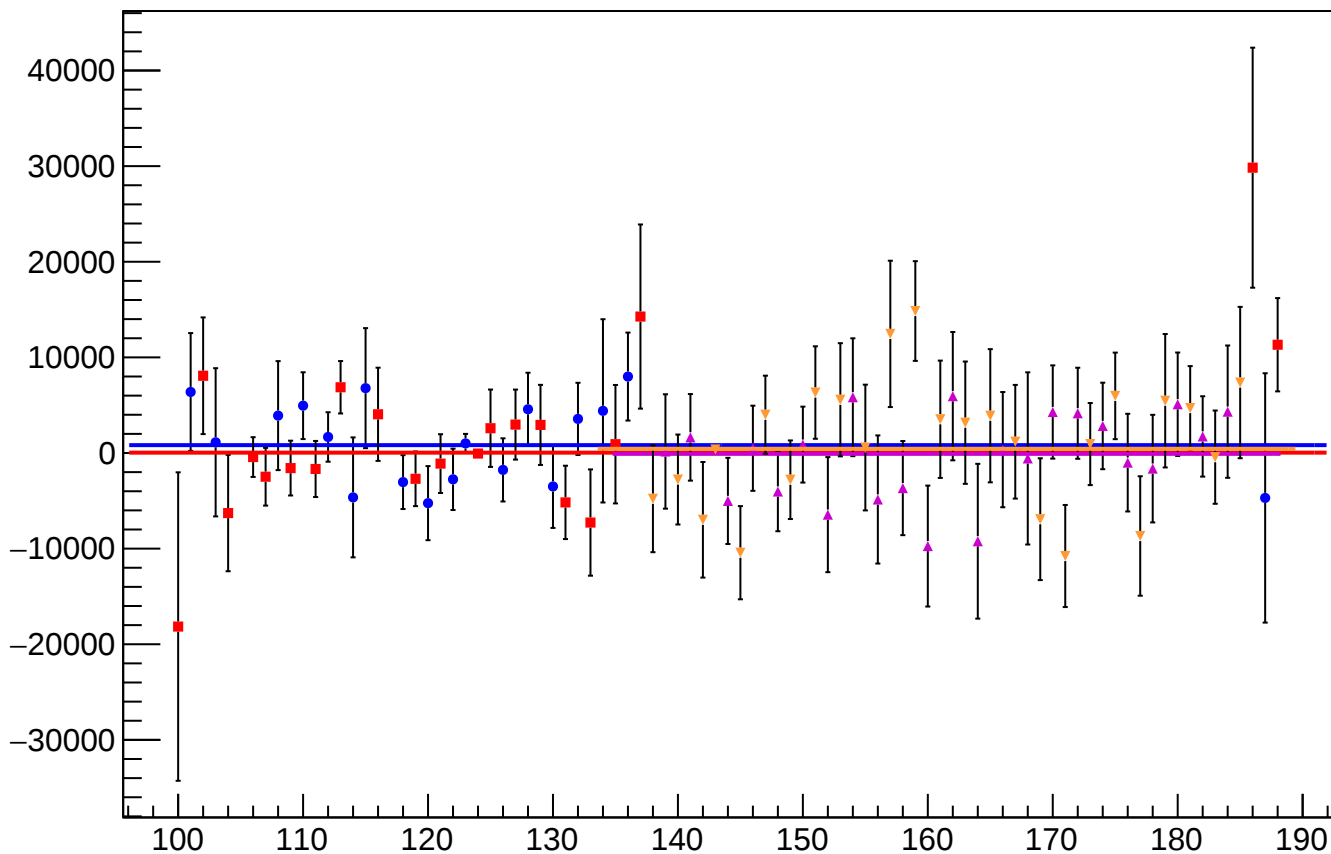
Right: 1707.791+/-0.315 χ^2/NDF : 592381.8/38

In: 1720.798+/-0.249 χ^2/NDF : 409415.2/40

Out: 1741.200+/-0.241 χ^2/NDF : 1093261.2/45

All: 1731.333+/-0.173 χ^2/NDF : 1506142.5/86

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 822.013+/-705.800 χ^2/NDF : 15.7/17

Left Out: 442.187+/-440.335 χ^2/NDF : 33.9/24

Right Out: 37.157+/-356.209 χ^2/NDF : 31.8/20

Left In: -88.508+/-1094.838 χ^2/NDF : 13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

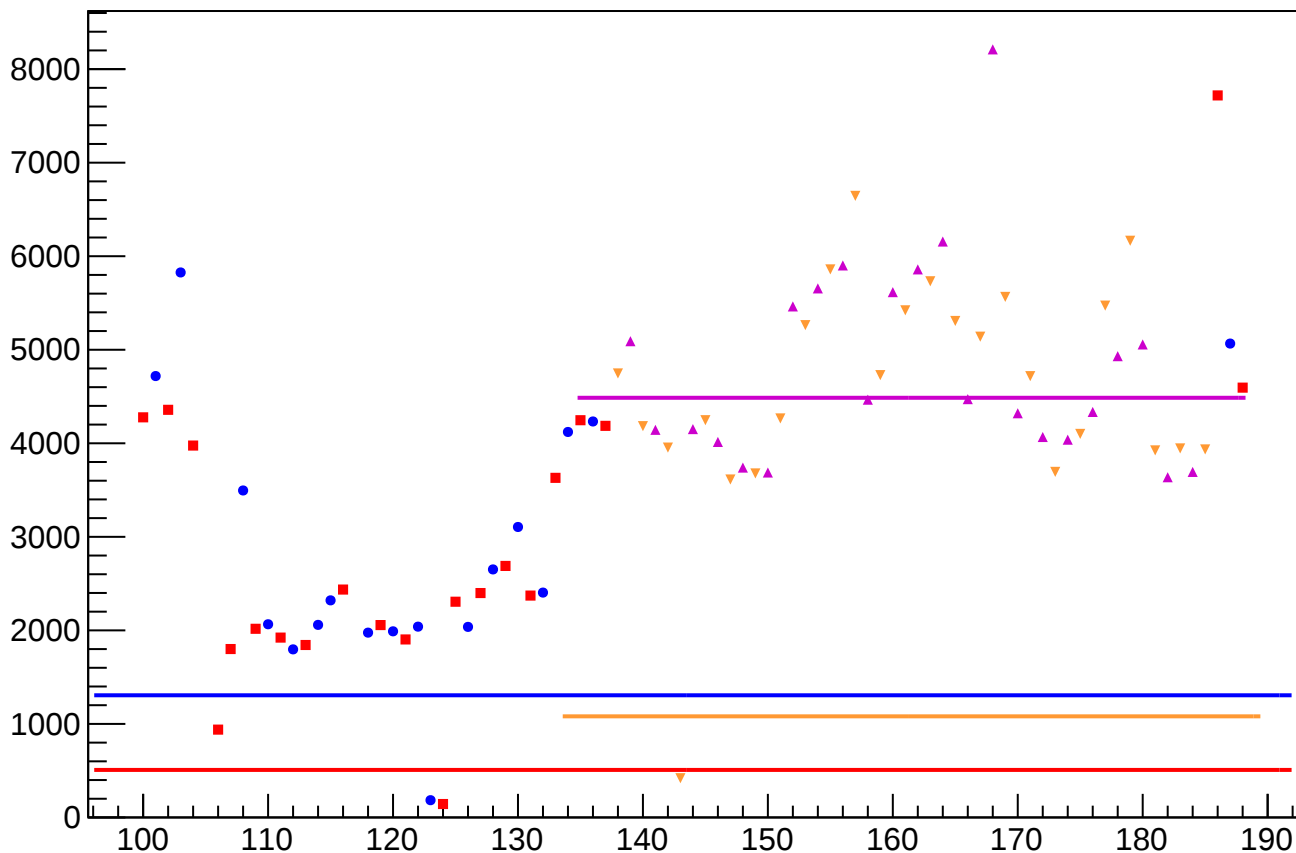
Right: 196.485+/-318.005 χ^2/NDF : 48.5/38

In: 554.702+/-593.217 χ^2/NDF : 29.7/40

Out: 197.367+/-276.939 χ^2/NDF : 66.2/45

All: 261.310+/-250.941 χ^2/NDF : 96.2/86

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1306.117+/-0.499

χ^2/NDF : 6676269.6/17

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right Out: 508.172+/-0.252

χ^2/NDF : 12192603.2/20

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289

χ^2/NDF : 42294704.7/47

Right: 670.157+/-0.225

χ^2/NDF : 20906235.8/38

In: 2239.835+/-0.419

χ^2/NDF : 19780472.9/40

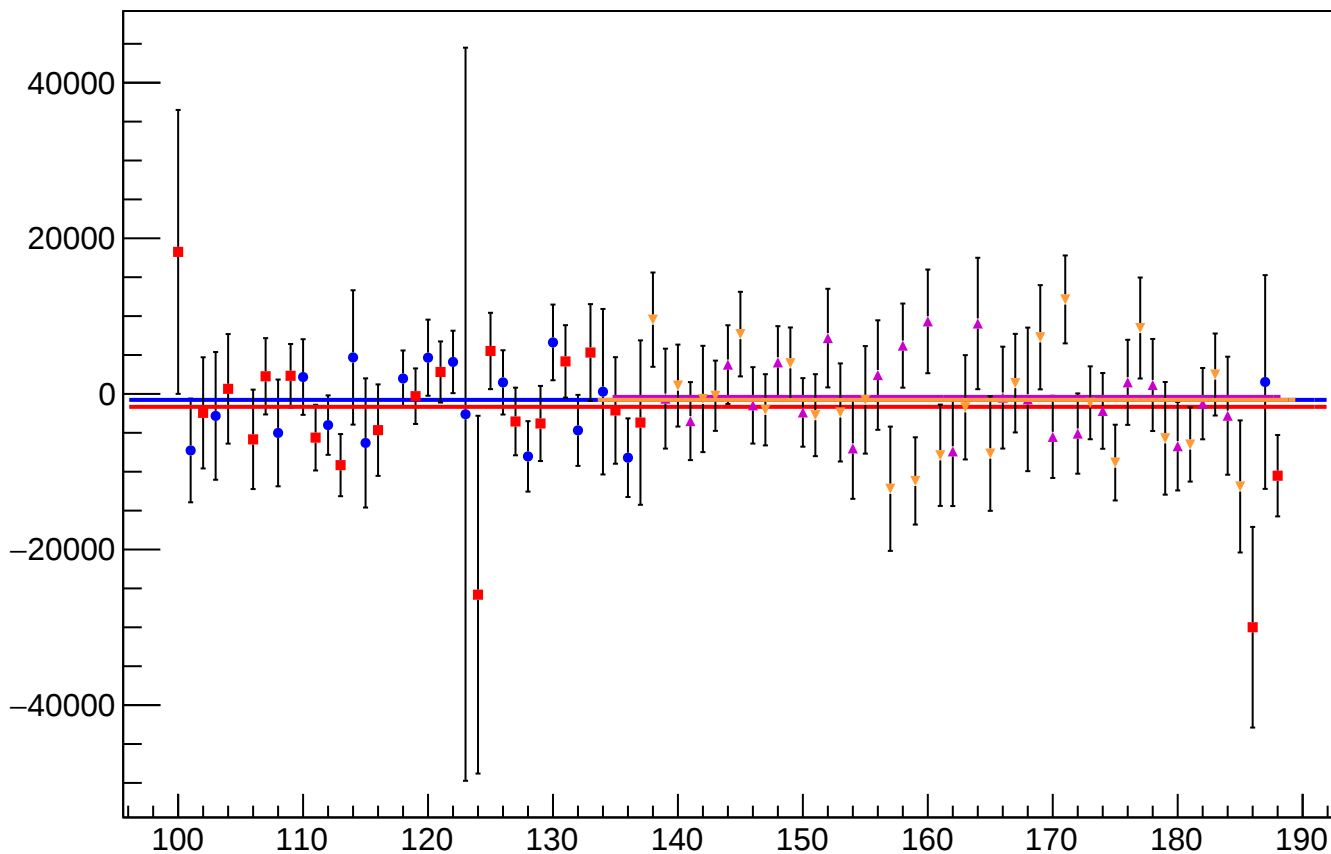
Out: 734.757+/-0.196

χ^2/NDF : 38694715.8/45

All: 1004.080+/-0.177

χ^2/NDF : 69045663.5/8

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -767.172+/-1260.196 χ^2/NDF : 14.7/17

Left Out: -766.008+/-1147.372 χ^2/NDF : 29.9/24

Right Out: -1661.972+/-1159.491 χ^2/NDF : 23.6/20

Left In: -388.944+/-1186.300 χ^2/NDF : 14.2/22

Left: -583.764+/-824.733 χ^2/NDF : 44.2/47

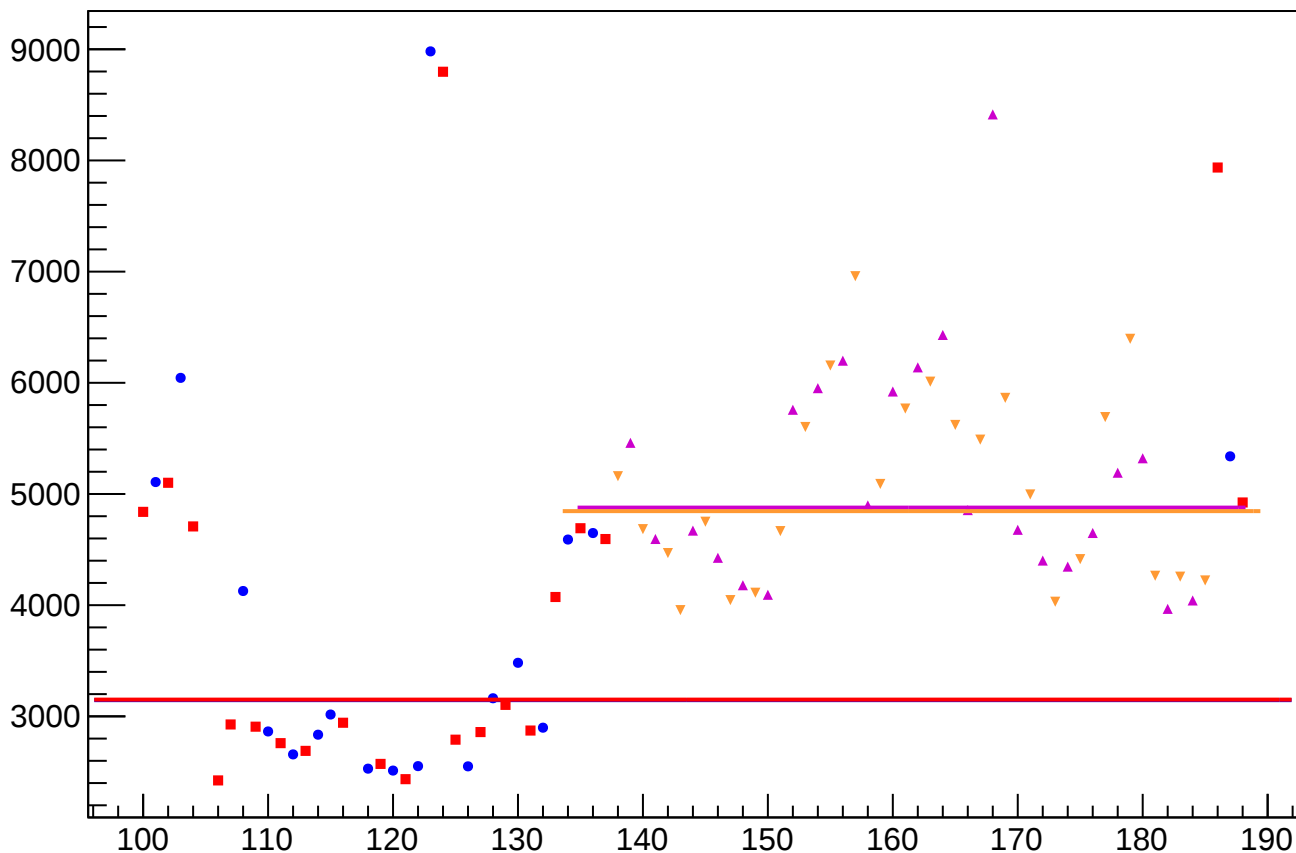
Right: -1251.748+/-853.268 χ^2/NDF : 38.6/38

In: -566.644+/-863.784 χ^2/NDF : 29.0/40

Out: -1209.283+/-815.565 χ^2/NDF : 53.9/45

All: -906.400+/-593.006 χ^2/NDF : 83.1/86

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3145.721+/-0.891 χ^2/NDF : 994186.3/17

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3150.541+/-0.810 χ^2/NDF : 1321216.2/20

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

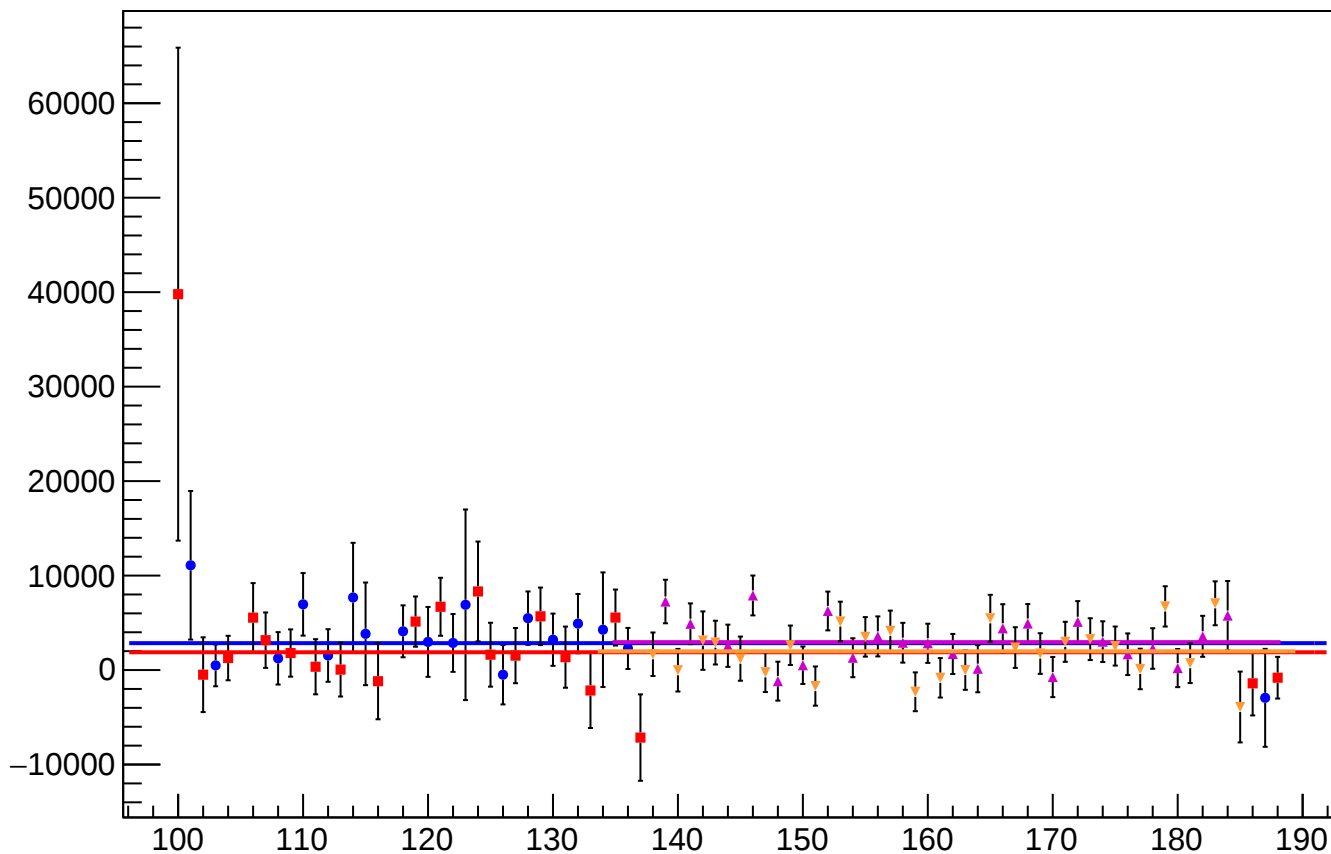
Right: 3148.360+/-0.599 χ^2/NDF : 2315418.5/38

In: 4063.844+/-0.611 χ^2/NDF : 3955158.5/40

Out: 3996.994+/-0.573 χ^2/NDF : 4416389.1/45

All: 4028.304+/-0.418 χ^2/NDF : 8377916.1/86

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2847.954+/-768.984 χ^2/NDF : 9.2/17

Left Out: 1985.469+/-443.190 χ^2/NDF :32.4/24

Right Out: 1882.807+/-688.824 χ^2/NDF : 21.0/20

Left In: 2955.900+/-454.551 χ^2/NDF :28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

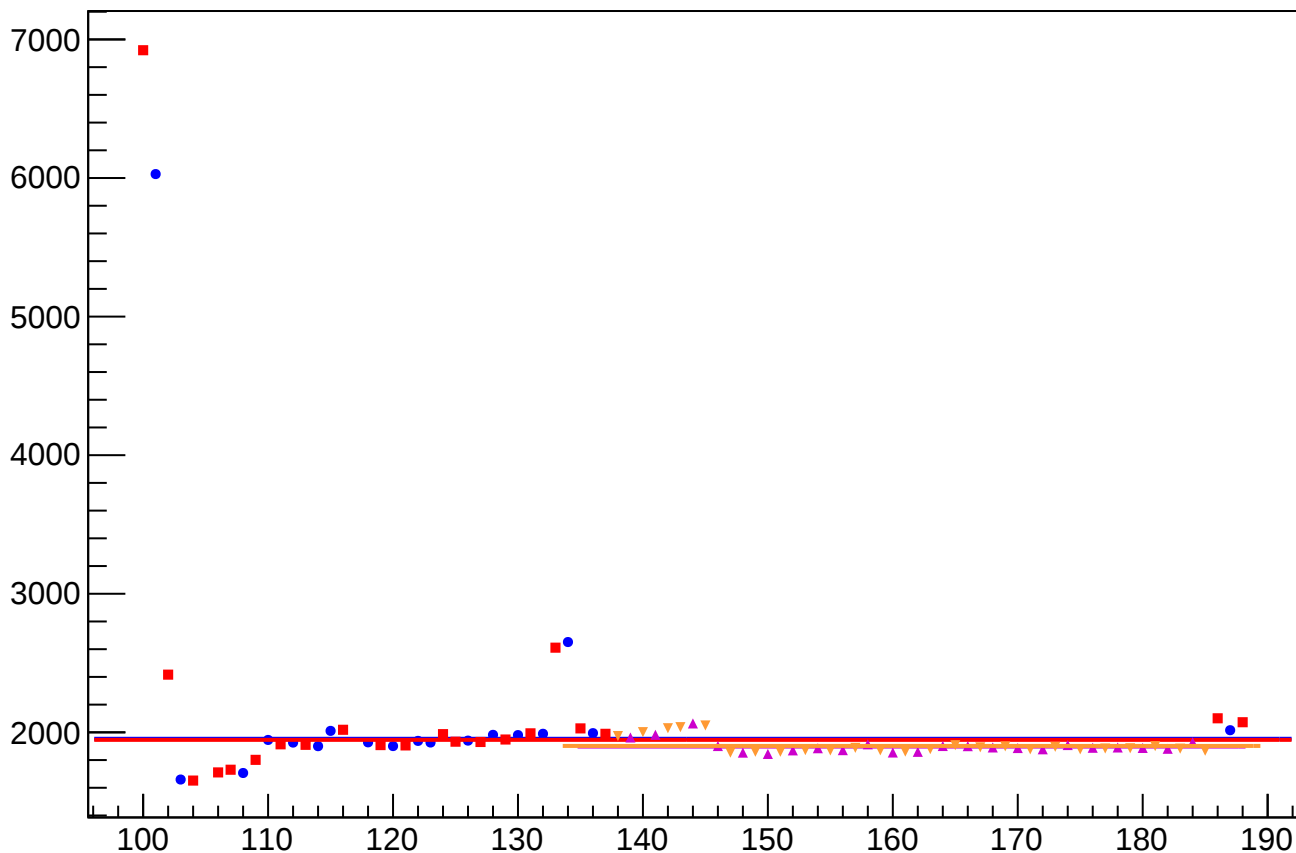
Right: 2312.471+/-513.079 χ^2/NDF : 31.1/38

In: 2927.950+/-391.301 χ^2/NDF :37.7/40

Out: 1955.413+/-372.709 χ^2/NDF :53.4/45

All: 2418.029+/-269.879 χ^2/NDF : 94.3/86

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1953.499+/-0.544 χ^2/NDF : 617680.6/17

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1945.745+/-0.486 χ^2/NDF : 230075.3/20

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

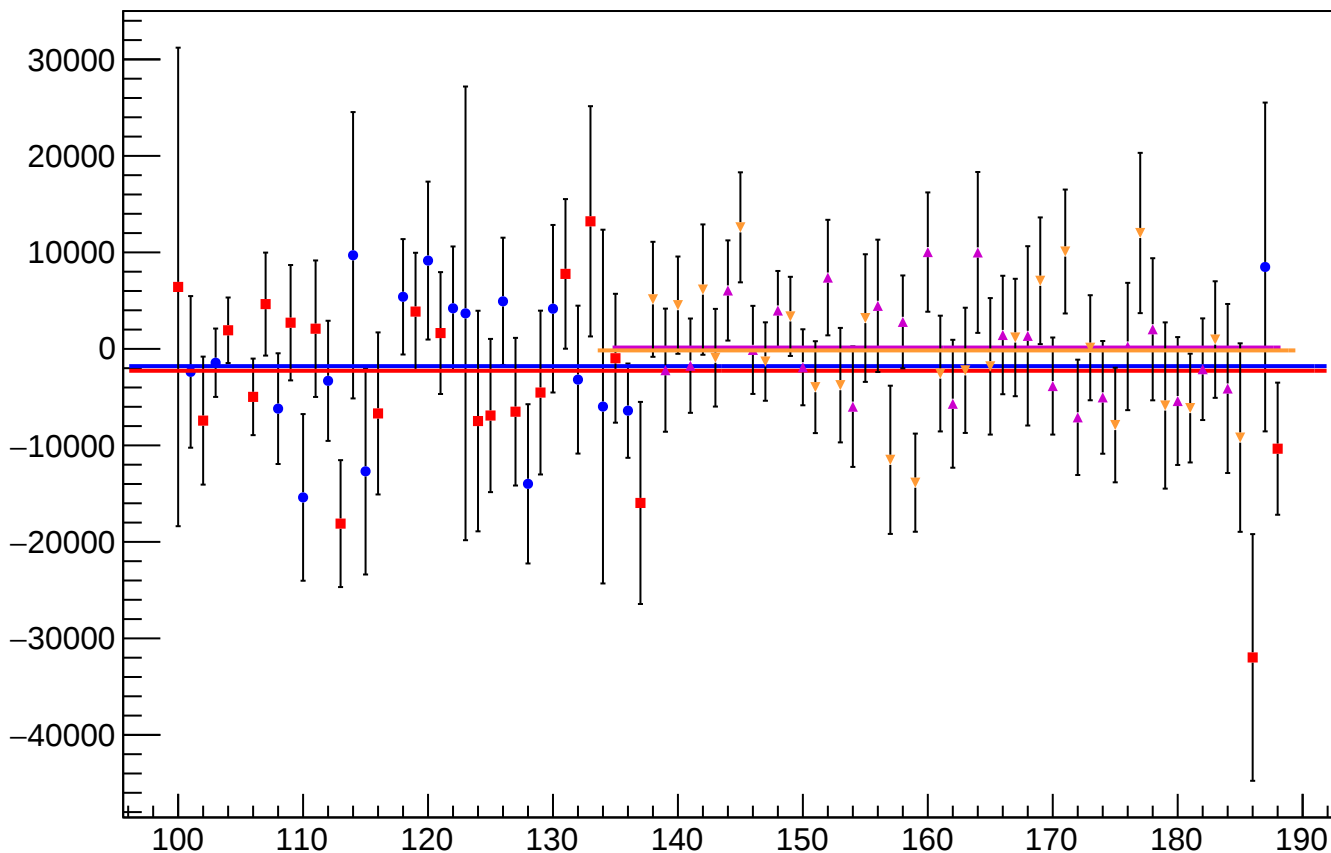
Right: 1949.189+/-0.362 χ^2/NDF : 847869.0/38

In: 1911.967+/-0.277 χ^2/NDF : 646732.8/40

Out: 1914.762+/-0.263 χ^2/NDF : 266273.7/45

All: 1913.433+/-0.191 χ^2/NDF : 913060.0/86

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -1787.354+/-1657.116 χ^2/NDF : 14.0/17

Left Out: -157.539+/-1165.844 χ^2/NDF : 29.5/24

Right Out: -2266.426+/-1437.081 χ^2/NDF : 25.8/20

Left In: 139.000+/-1190.889 χ^2/NDF : 14.7/22

Left: -12.420+/-833.090 χ^2/NDF : 44.2/47

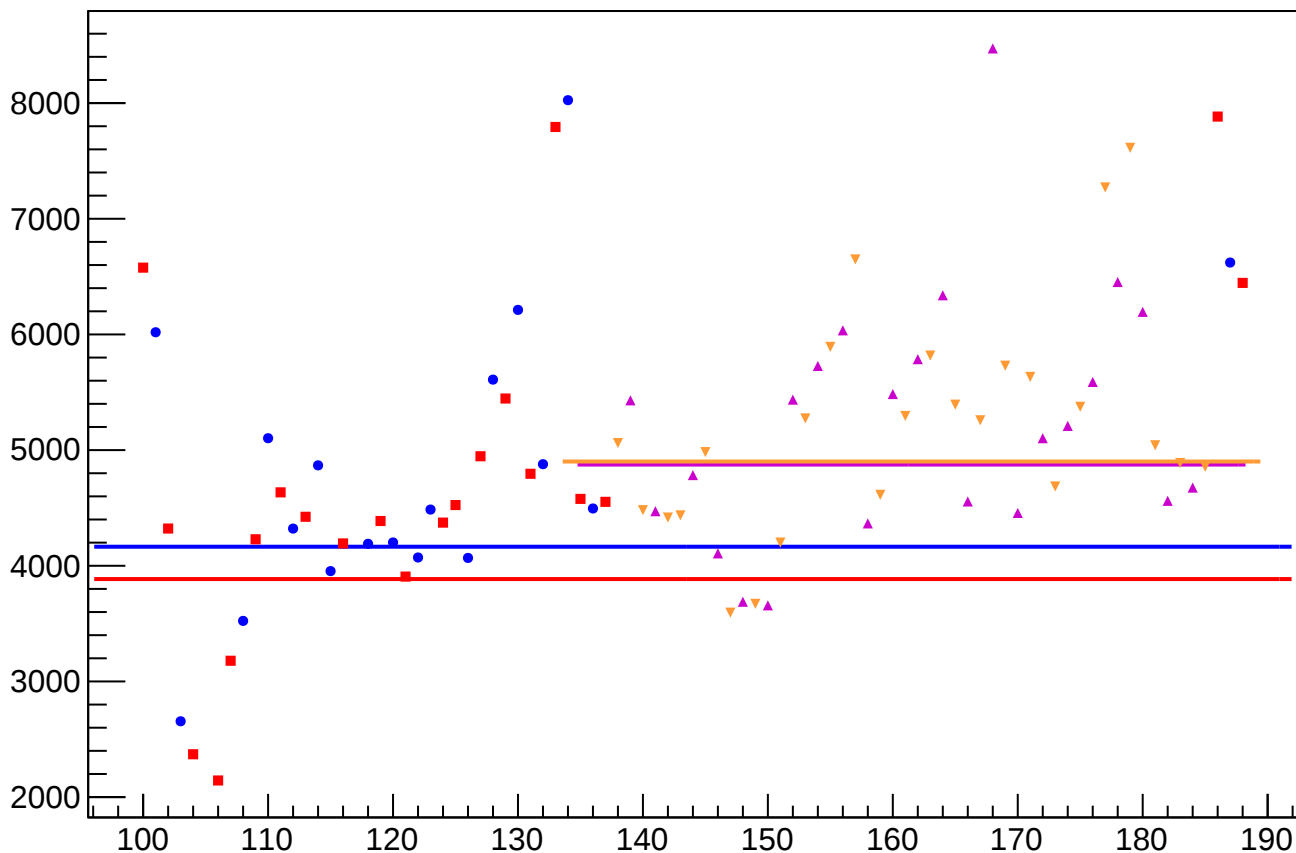
Right: -2060.786+/-1085.690 χ^2/NDF : 39.8/38

In: -517.058+/-967.066 χ^2/NDF : 29.6/40

Out: -994.587+/-905.378 χ^2/NDF : 56.6/45

All: -771.538+/-660.932 χ^2/NDF : 86.3/86

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4164.731+/-1.172 χ^2/NDF : 860134.3/17

Left Out: 4901.357+/-0.824 χ^2/NDF : 1136916.0/24

Right Out: 3885.153+/-1.016 χ^2/NDF : 1779612.0/20

Left In: 4875.112+/-0.842 χ^2/NDF : 1229198.0/22

Left: 4888.513+/-0.589 χ^2/NDF : 2366610.1/47

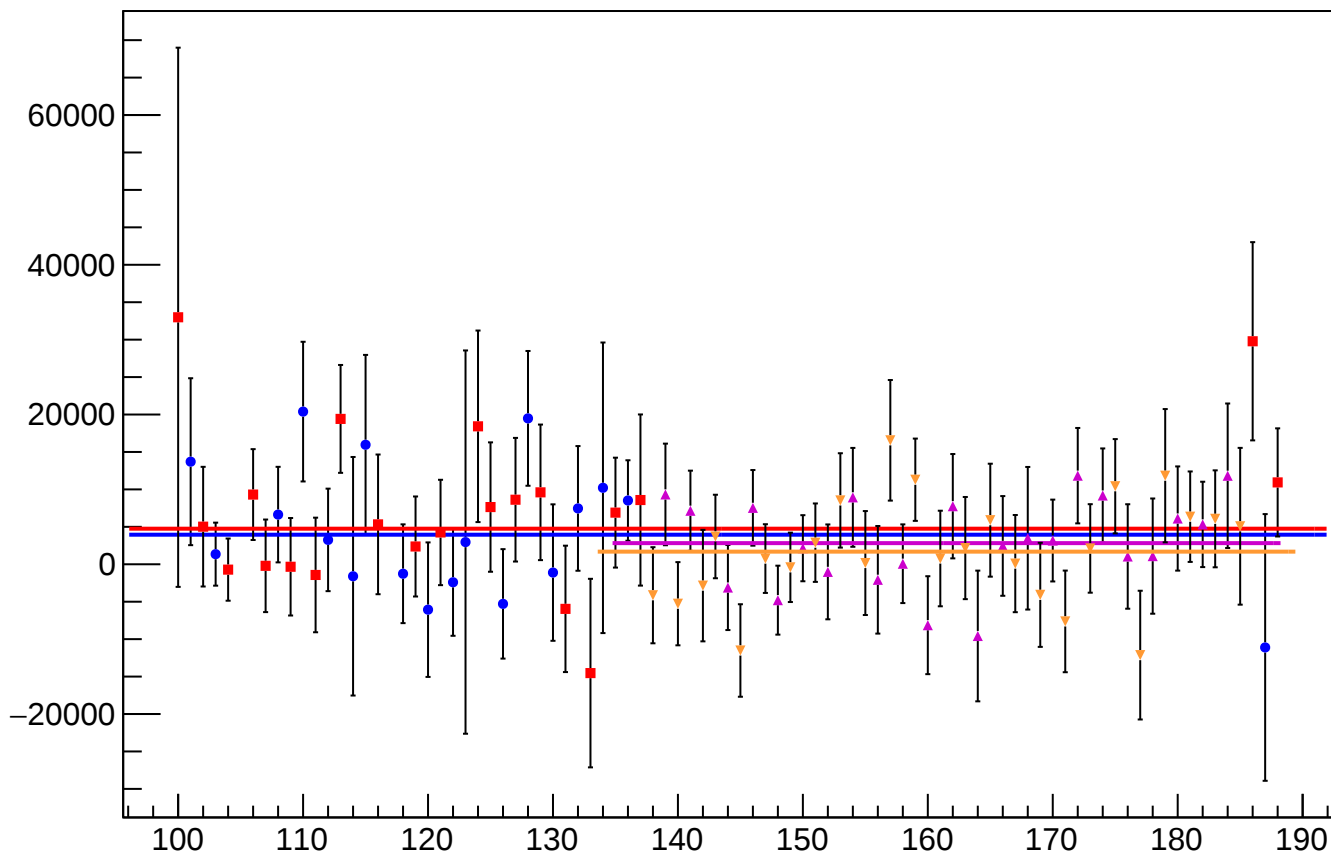
Right: 4005.161+/-0.768 χ^2/NDF : 2672238.4/38

In: 4633.178+/-0.684 χ^2/NDF : 2331700.7/40

Out: 4498.011+/-0.640 χ^2/NDF : 3519653.4/45

All: 4561.146+/-0.467 χ^2/NDF : 5872175.7/86

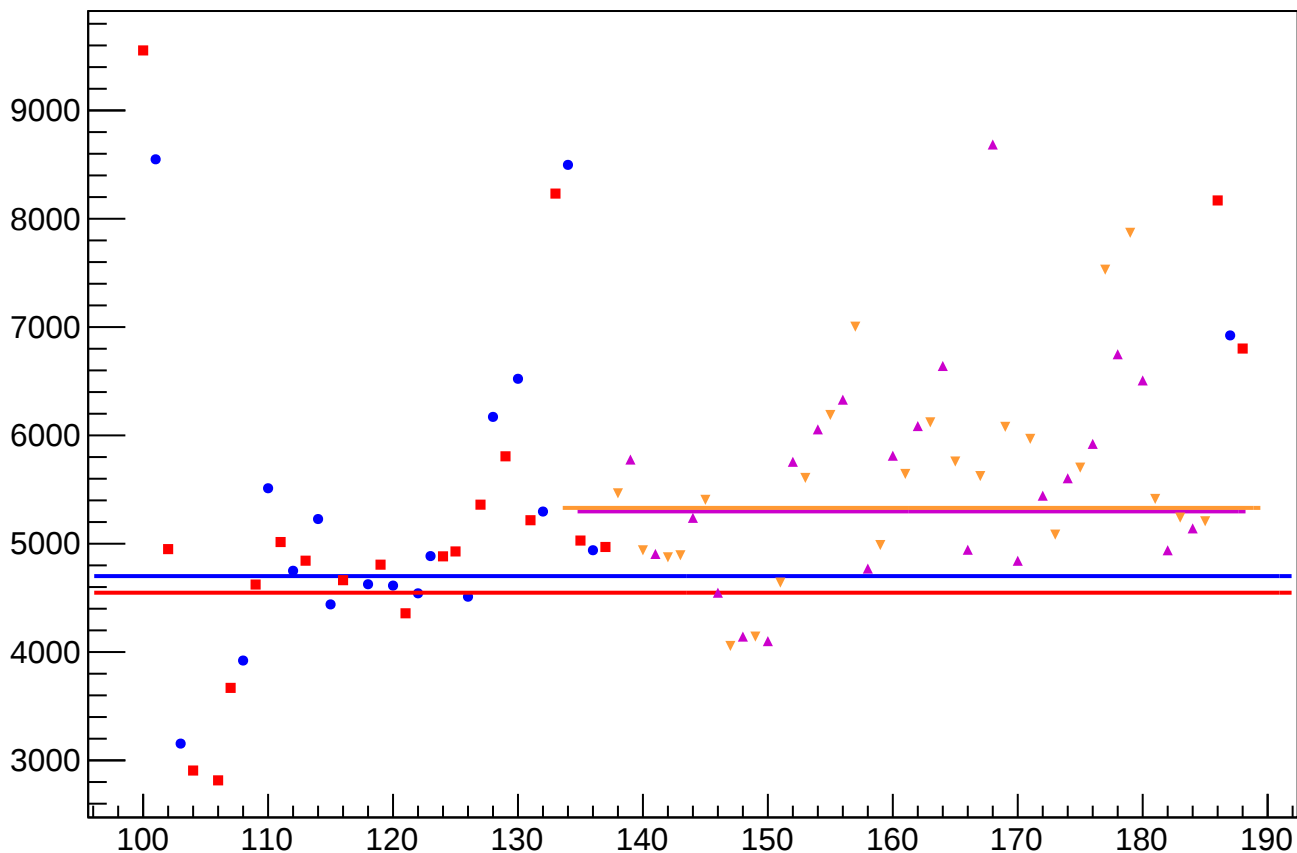
asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3949.322 $\pm$ 1865.921 χ^2 /NDF: 14.8/17
Left Out: 1686.531 $\pm$ 1261.650 χ^2 /NDF: 25.4/24
Right Out: 4751.933 $\pm$ 1667.519 χ^2 /NDF: 19.3/20
Left In: 2824.078 $\pm$ 1288.414 χ^2 /NDF: 18.0/22

Left: 2243.367 $\pm$ 901.435 χ^2 /NDF: 43.8/47
Right: 4395.552 $\pm$ 1243.362 χ^2 /NDF: 34.2/38
In: 3187.368 $\pm$ 1060.221 χ^2 /NDF: 33.1/40
Out: 2802.488 $\pm$ 1006.122 χ^2 /NDF: 46.9/45
All: 2984.859 $\pm$ 729.812 χ^2 /NDF: 80.0/86

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 4701.063 $\pm$ 1.319 χ^2/NDF : 814508.2/17

Left Out: 5330.725 $\pm$ 0.892 χ^2/NDF :868061.7/24

Right Out: 4547.734 $\pm$ 1.173 χ^2/NDF : 1202209.8/20

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

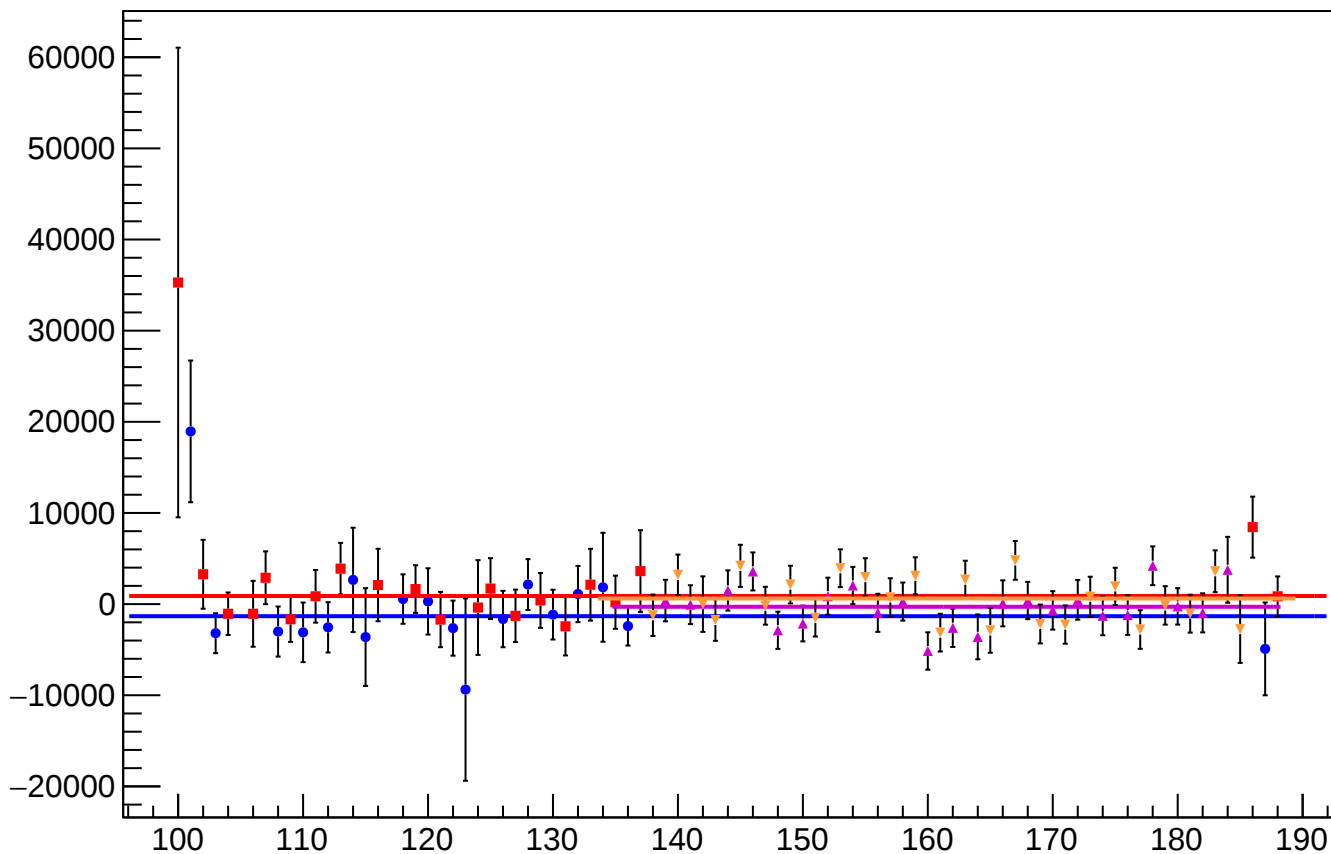
Right: 4615.407 $\pm$ 0.877 χ^2/NDF : 2024262.4/38

In: 5105.499 $\pm$ 0.750 χ^2/NDF :1909288.9/40

Out: 5043.713 $\pm$ 0.710 χ^2/NDF :2352635.5/45

All: 5072.929 $\pm$ 0.516 χ^2/NDF : 4265505.1/86

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1327.131+/-758.876 χ^2/NDF : 13.8/17

Left Out: 612.314+/-438.264 χ^2/NDF : 32.7/24

Right Out: 887.128+/-679.875 χ^2/NDF : 14.2/20

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

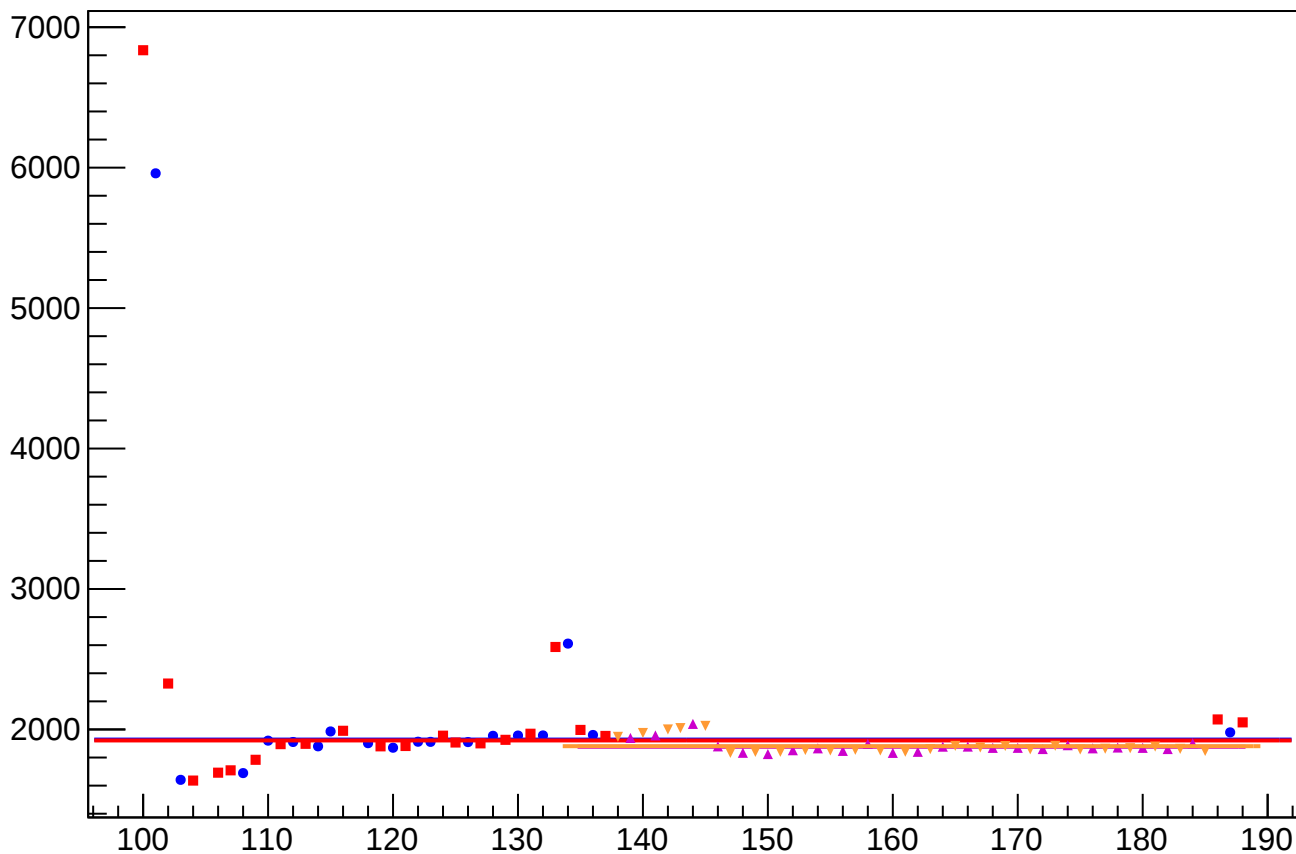
Right: -98.782+/-506.379 χ^2/NDF : 32.7/38

In: -561.661+/-386.795 χ^2/NDF : 38.8/40

Out: 692.987+/-368.362 χ^2/NDF : 47.0/45

All: 96.270+/-266.750 χ^2/NDF : 91.3/86

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1927.859+/-0.537 χ^2/NDF : 616106.5/17

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1921.701+/-0.480 χ^2/NDF : 223673.7/20

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

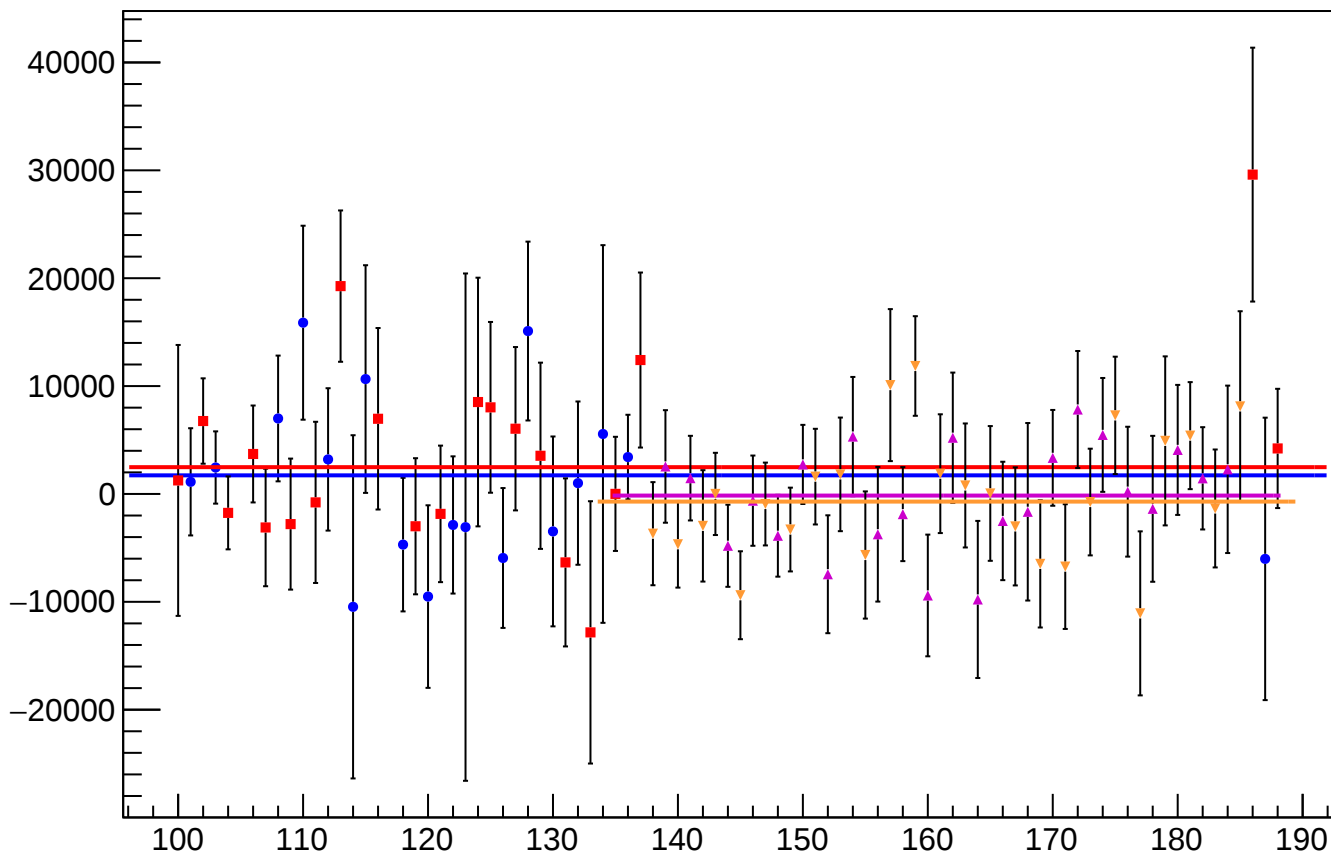
Right: 1924.437+/-0.358 χ^2/NDF : 839853.4/38

In: 1889.979+/-0.274 χ^2/NDF : 643338.4/40

Out: 1892.846+/-0.260 χ^2/NDF : 257454.8/45

All: 1891.483+/-0.189 χ^2/NDF : 900850.8/86

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 1724.723+/-1549.006 χ^2/NDF : 13.1/17

Left Out: -707.785+/-1017.719 χ^2/NDF : 27.1/24

Right Out: 2483.277+/-1362.127 χ^2/NDF : 23.1/20

Left In: -150.495+/-1053.655 χ^2/NDF : 16.9/22

Left: -438.806+/-732.011 χ^2/NDF : 44.2/47

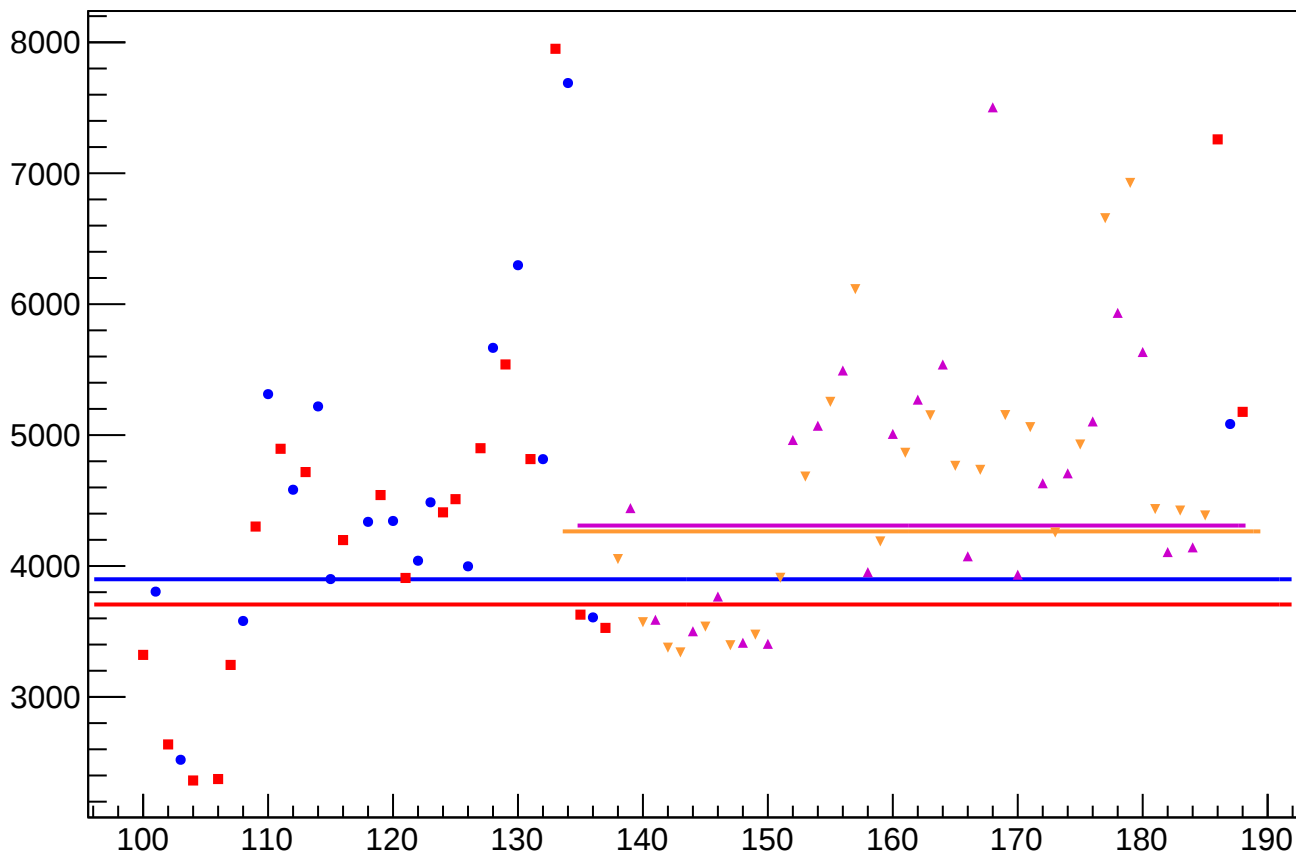
Right: 2152.495+/-1022.894 χ^2/NDF : 36.2/38

In: 442.690+/-871.209 χ^2/NDF : 30.9/40

Out: 435.413+/-815.287 χ^2/NDF : 53.7/45

All: 438.810+/-595.284 χ^2/NDF : 84.6/86

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 3898.750+/-1.095 χ^2/NDF : 838620.1/17

Left Out: 4264.433+/-0.720 χ^2/NDF :1354900.8/24

Right Out: 3706.087+/-0.963 χ^2/NDF : 1587818.4/20

Left In: 4309.034+/-0.745 χ^2/NDF :1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

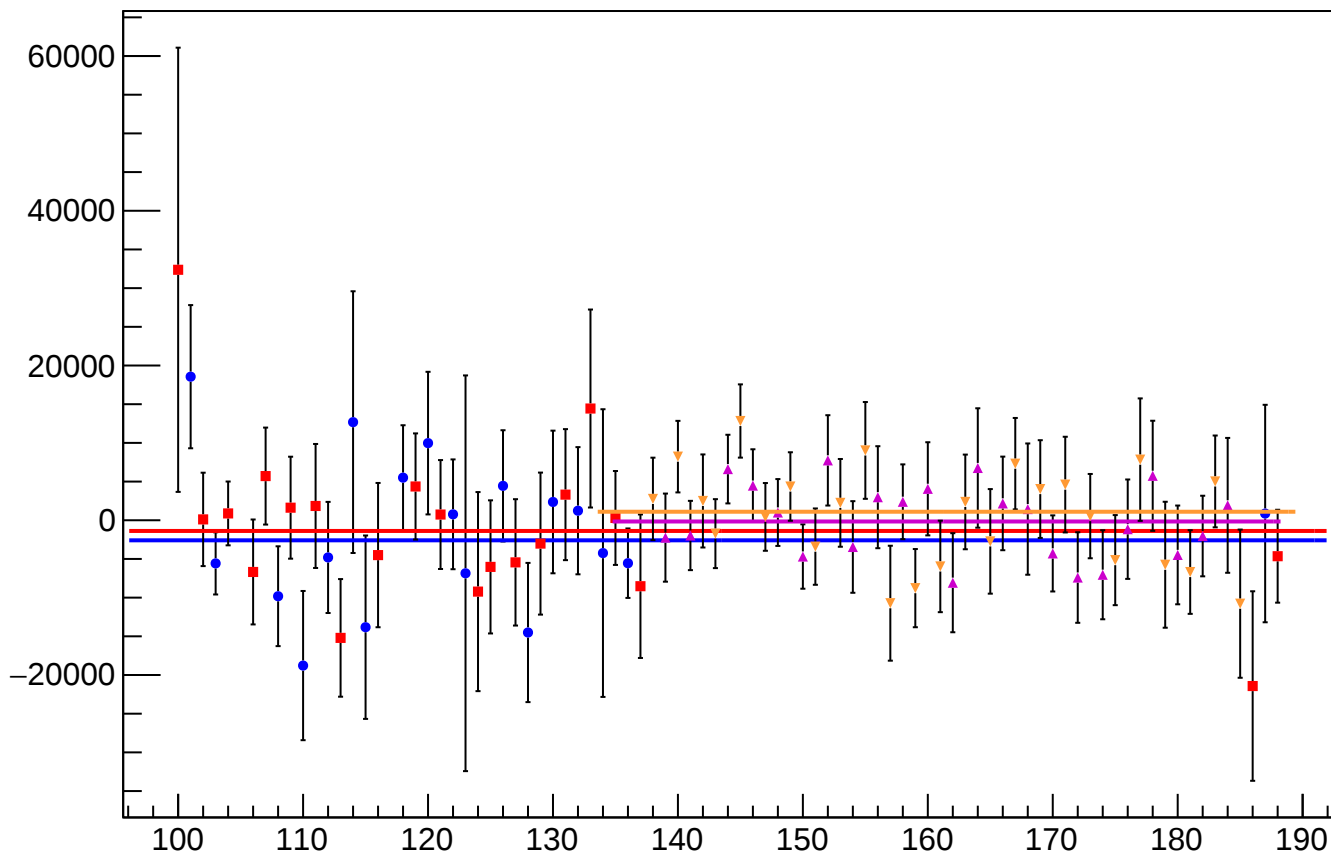
Right: 3790.101+/-0.723 χ^2/NDF : 2443886.4/38

In: 4179.249+/-0.616 χ^2/NDF :2239680.2/40

Out: 4064.406+/-0.576 χ^2/NDF :3158377.8/45

All: 4118.024+/-0.421 χ^2/NDF : 5416585.9/86

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -2593.204+/-1798.478 χ^2/NDF : 18.9/17

Left Out: 1102.204+/-1126.663 χ^2/NDF : 28.6/24

Right Out: -1382.448+/-1615.412 χ^2/NDF : 14.6/20

Left In: -158.683+/-1161.507 χ^2/NDF : 15.5/22

Left: 490.957+/-808.709 χ^2/NDF : 44.7/47

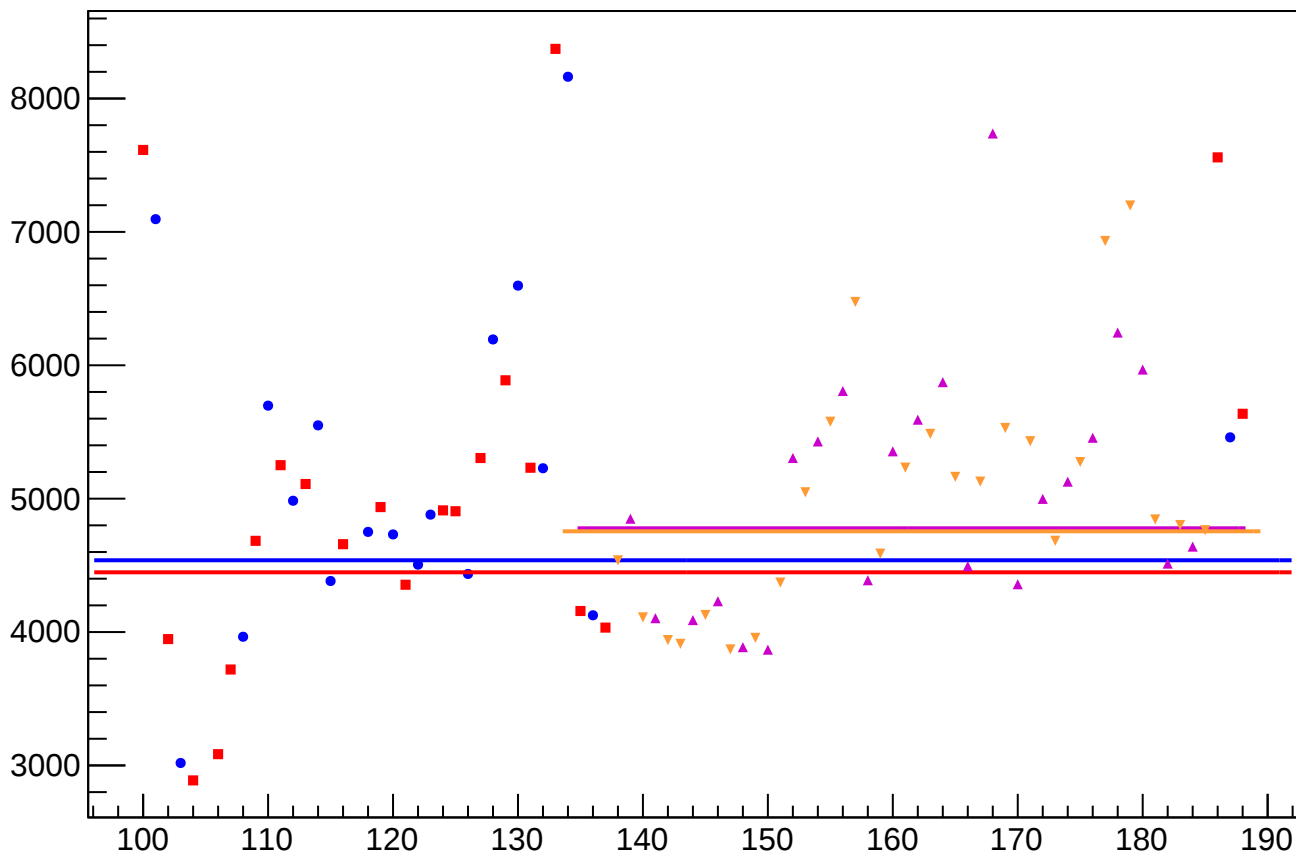
Right: -1923.087+/-1201.795 χ^2/NDF : 33.8/38

In: -875.237+/-975.714 χ^2/NDF : 35.7/40

Out: 289.107+/-924.106 χ^2/NDF : 44.8/45

All: -261.459+/-670.945 χ^2/NDF : 81.3/86

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4538.120 $\pm$ 1.272 χ^2/NDF : 785357.4/17

Left Out: 4755.383 $\pm$ 0.797 χ^2/NDF : 953328.0/24

Right Out: 4447.899 $\pm$ 1.136 χ^2/NDF : 996966.8/20

Left In: 4777.831 $\pm$ 0.821 χ^2/NDF : 950291.2/22

Left: 4766.265 $\pm$ 0.572 χ^2/NDF : 1904004.1/47

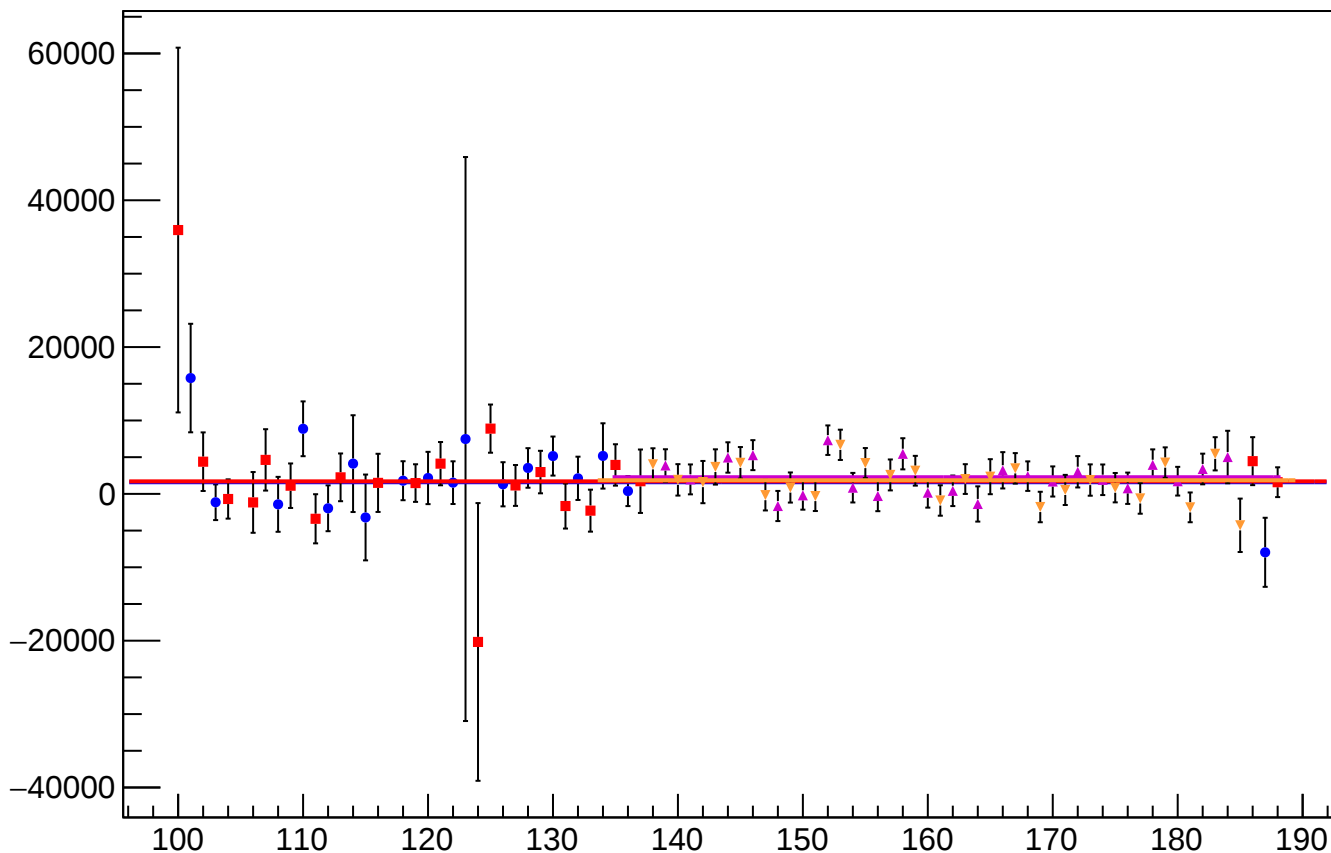
Right: 4487.959 $\pm$ 0.847 χ^2/NDF : 1785122.5/38

In: 4707.277 $\pm$ 0.690 χ^2/NDF : 1760721.1/40

Out: 4654.070 $\pm$ 0.652 χ^2/NDF : 1999377.5/45

All: 4679.185 $\pm$ 0.474 χ^2/NDF : 3763238.6/86

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1584.631 $\pm$ 775.078 χ^2 /NDF: 19.0/17

Left Out: 1856.570 $\pm$ 430.977 χ^2 /NDF:30.0/24

Right Out: 1706.516 $\pm$ 701.600 χ^2 /NDF: 18.0/20

Left In: 2268.464 $\pm$ 441.710 χ^2 /NDF:26.9/22

Left: 2057.452 $\pm$ 308.471 χ^2 /NDF: 57.3/47

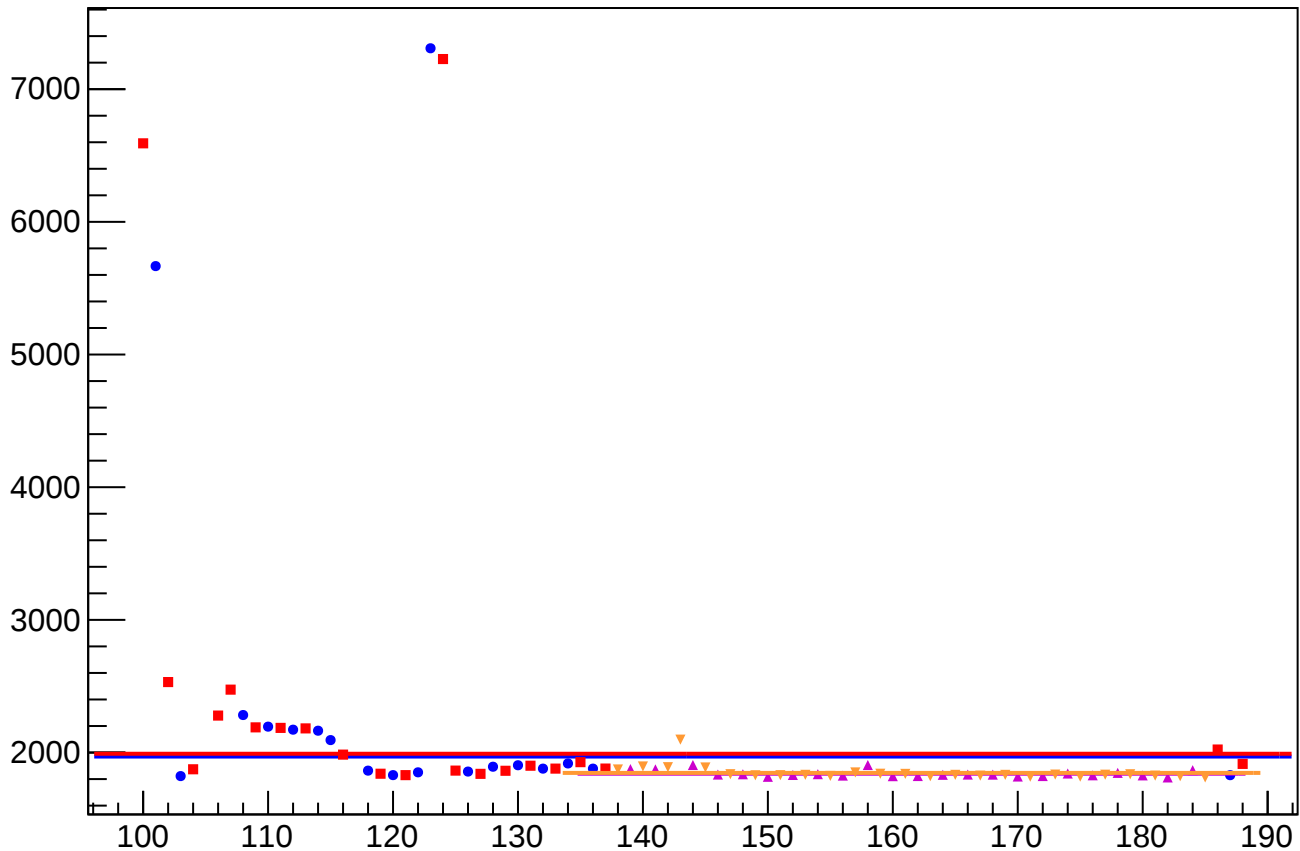
Right: 1651.624 $\pm$ 520.148 χ^2 /NDF: 37.1/38

In: 2100.819 $\pm$ 383.766 χ^2 /NDF:46.5/40

Out: 1815.461 $\pm$ 367.226 χ^2 /NDF:48.1/45

All: 1951.858 $\pm$ 265.323 χ^2 /NDF: 94.8/86

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1969.894+/-0.548 χ^2/NDF : 601708.9/17

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1990.898+/-0.496 χ^2/NDF : 356928.4/20

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

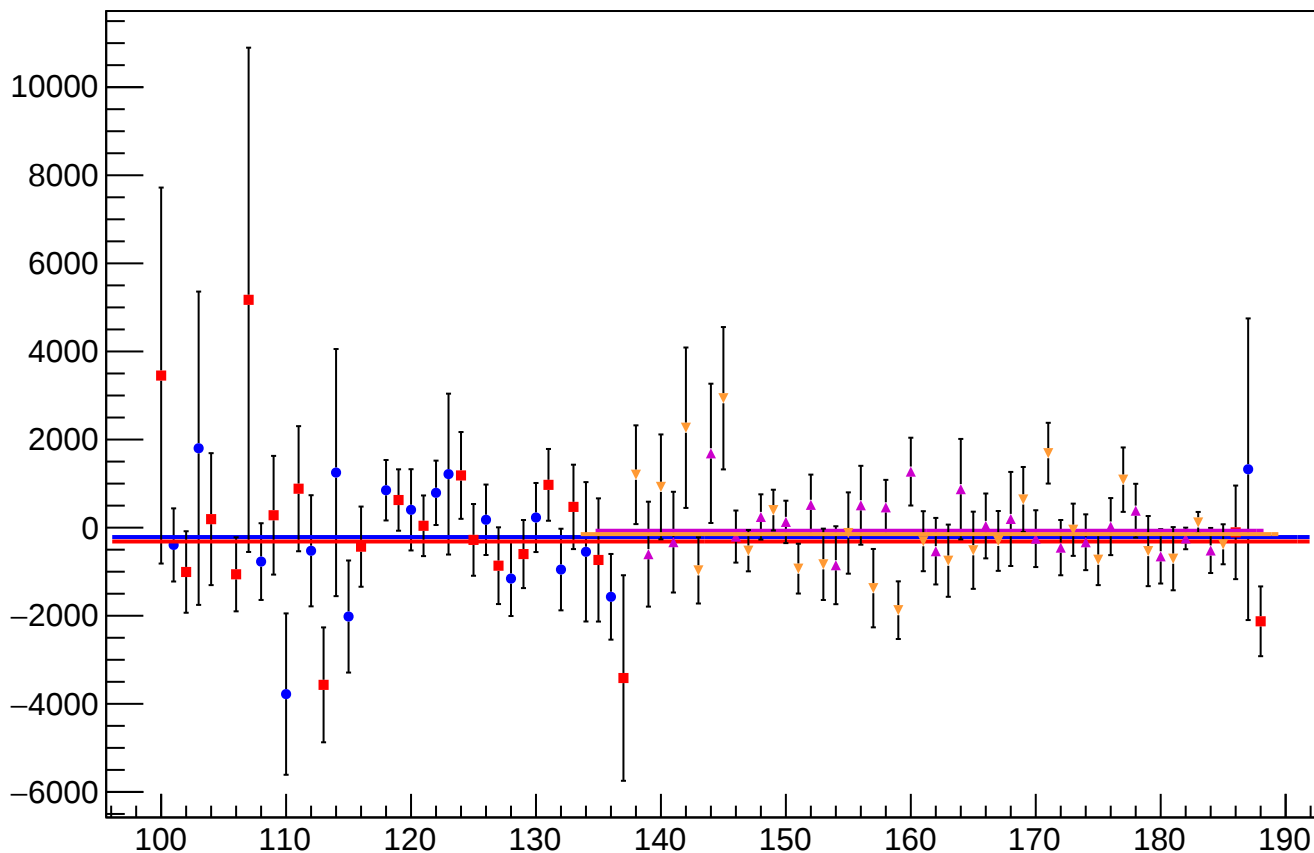
Right: 1981.438+/-0.368 χ^2/NDF : 959444.5/38

In: 1872.253+/-0.271 χ^2/NDF : 650497.4/40

Out: 1886.133+/-0.260 χ^2/NDF : 445652.4/45

All: 1879.499+/-0.188 χ^2/NDF : 1097515.6/86

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -213.158 ± 240.613 $\chi^2/\text{NDF}: 16.9/17$

Left Out: -146.999 ± 121.984 $\chi^2/\text{NDF}: 37.7/24$

Right Out: -314.412 ± 216.050 $\chi^2/\text{NDF}: 25.5/20$

Left In: -70.340 ± 126.373 $\chi^2/\text{NDF}: 12.3/22$

Left: -110.024 ± 87.766 $\chi^2/\text{NDF}: 50.1/47$

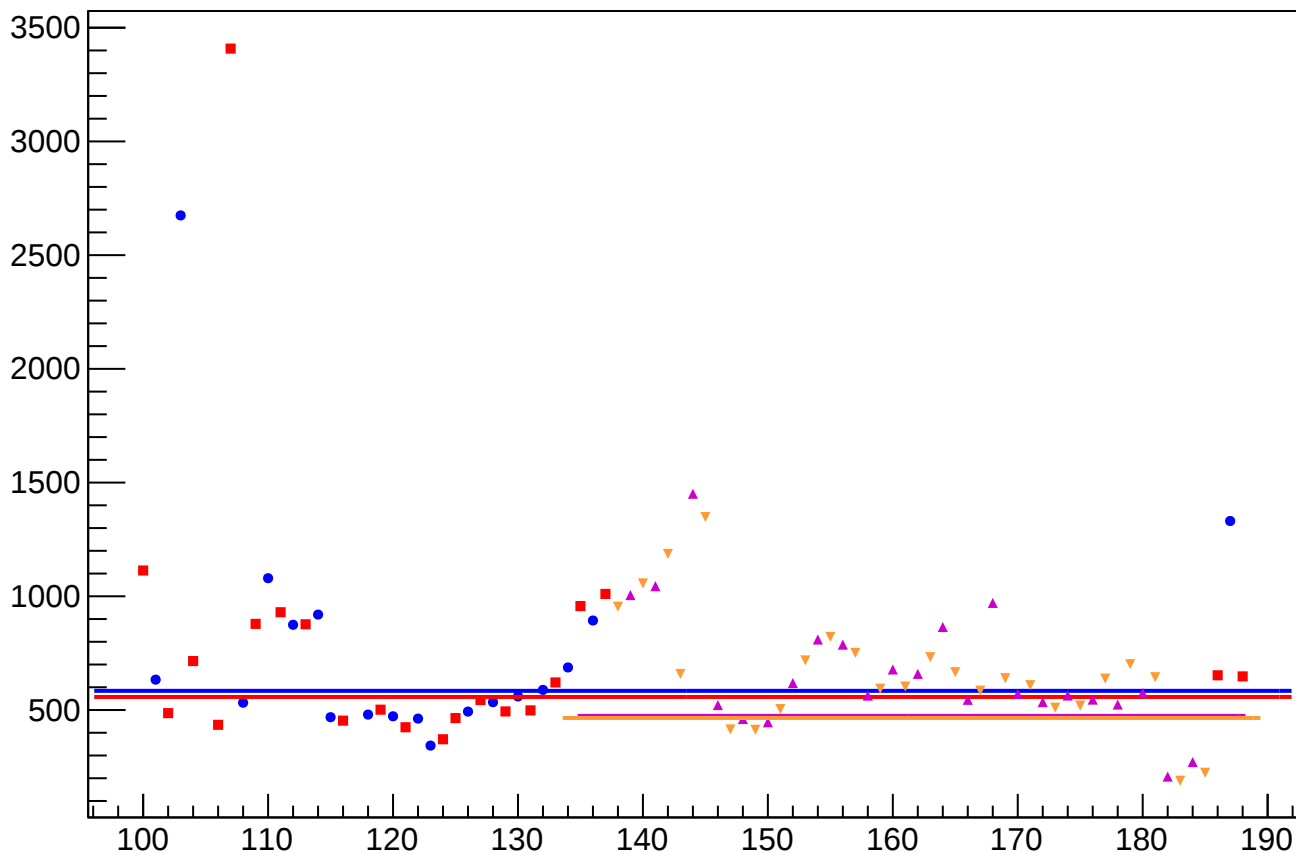
Right: -269.216 ± 160.755 $\chi^2/\text{NDF}: 42.5/38$

In: -101.219 ± 111.881 $\chi^2/\text{NDF}: 29.4/40$

Out: -187.467 ± 106.222 $\chi^2/\text{NDF}: 63.7/45$

All: -146.579 ± 77.033 $\chi^2/\text{NDF}: 93.4/86$

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 584.284+/-0.170 χ^2/NDF : 1509364.3/17

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 557.359+/-0.153 χ^2/NDF : 1503294.6/20

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

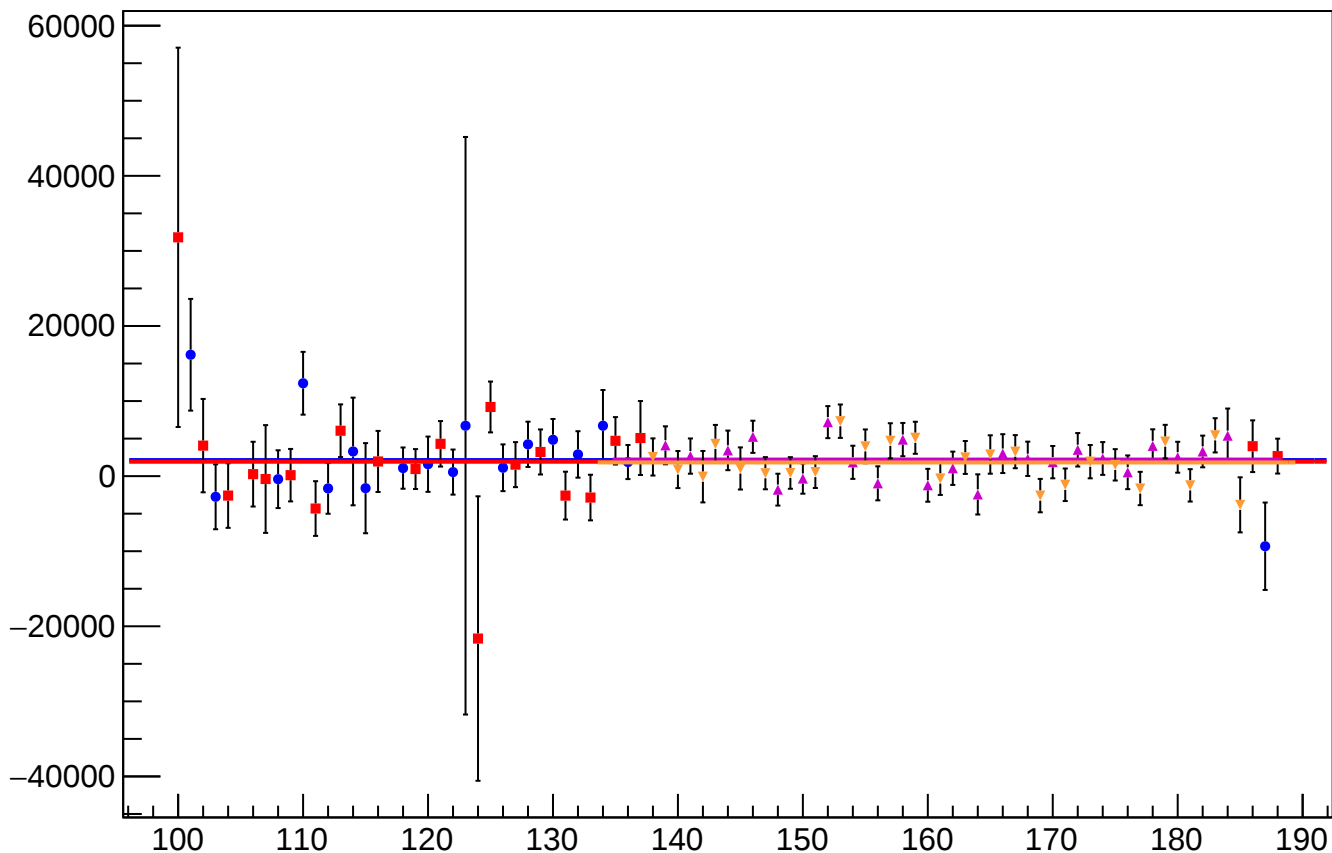
Right: 569.377+/-0.114 χ^2/NDF : 3026524.5/38

In: 498.050+/-0.079 χ^2/NDF : 8010217.1/40

Out: 487.386+/-0.075 χ^2/NDF : 8866092.1/45

All: 492.442+/-0.054 χ^2/NDF : 16885864.7/86

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2140.576 $\pm$ 856.251 χ^2/NDF : 19.8/17

Left Out: 1824.066 $\pm$ 462.694 χ^2/NDF : 32.1/24

Right Out: 1918.429 $\pm$ 782.385 χ^2/NDF : 20.7/20

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

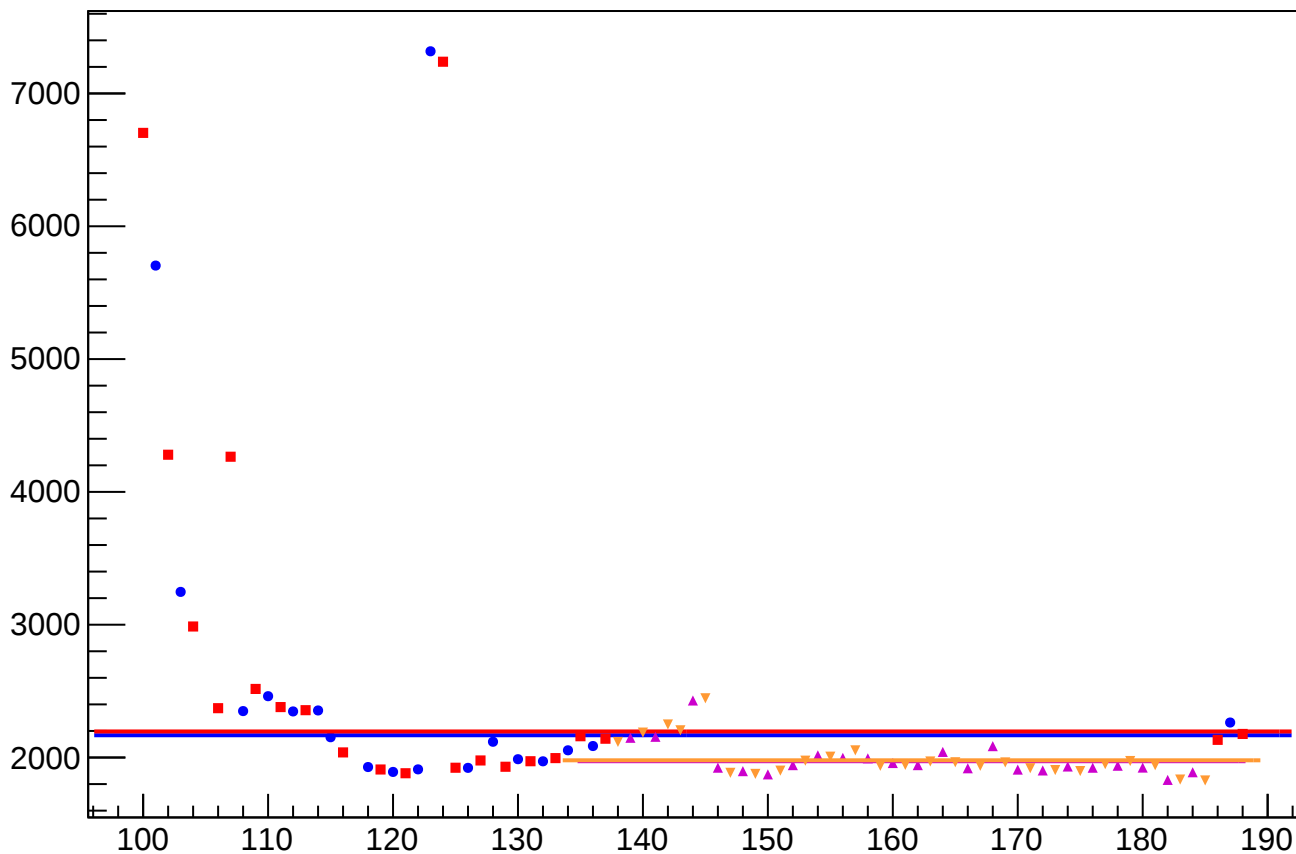
Right: 2019.509 $\pm$ 577.581 χ^2/NDF : 40.6/38

In: 2192.269 $\pm$ 414.732 χ^2/NDF : 45.2/40

Out: 1848.517 $\pm$ 398.262 χ^2/NDF : 52.8/45

All: 2013.432 $\pm$ 287.260 χ^2/NDF : 98.3/86

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2167.685+/-0.605 χ^2/NDF : 708360.5/17

Left Out: 1978.997+/-0.327 χ^2/NDF :139299.8/24

Right Out: 2196.227+/-0.553 χ^2/NDF : 799989.7/20

Left In: 1972.166+/-0.335 χ^2/NDF :116452.5/22

Left: 1975.665+/-0.234 χ^2/NDF : 255965.0/47

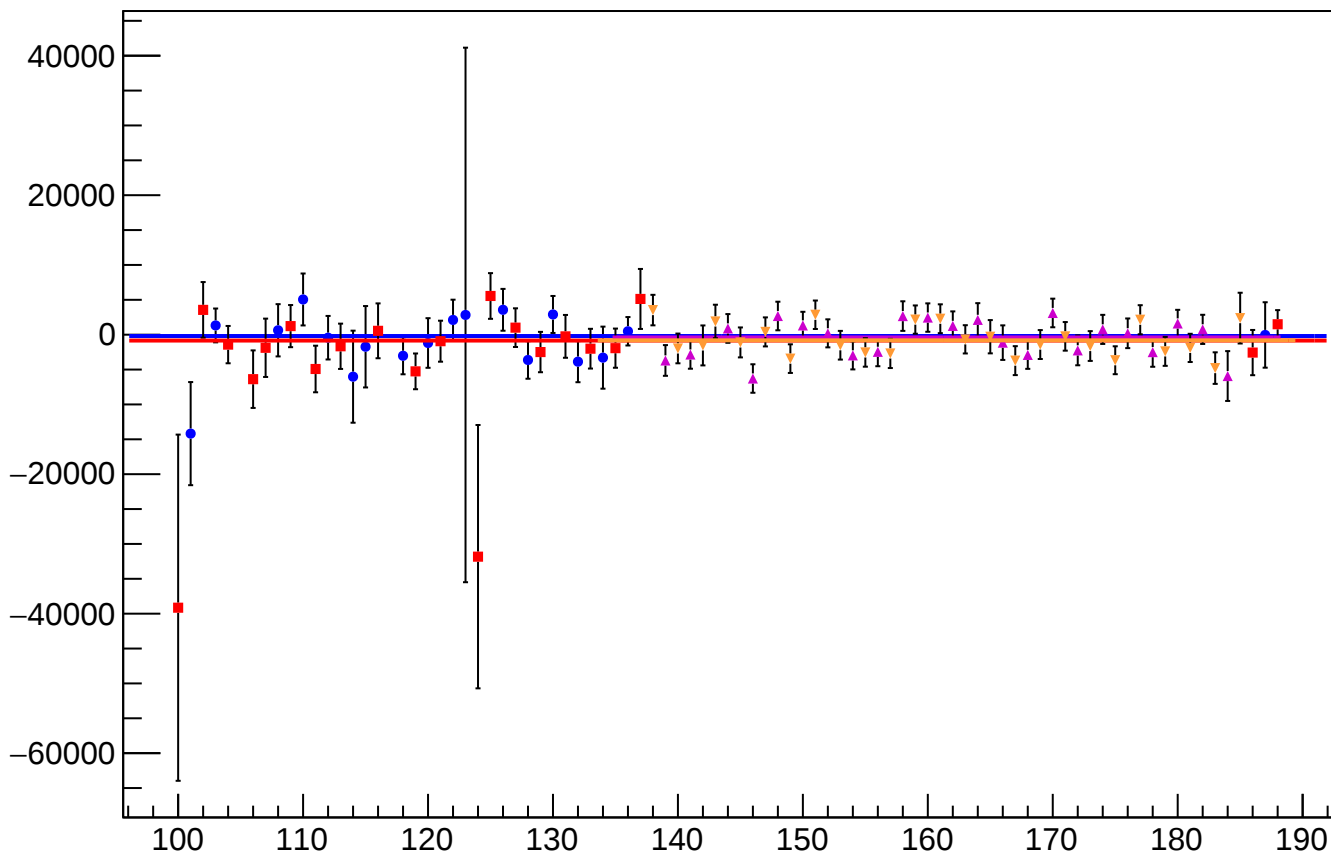
Right: 2183.240+/-0.408 χ^2/NDF : 1509561.3/38

In: 2018.036+/-0.293 χ^2/NDF :904629.7/40

Out: 2035.285+/-0.282 χ^2/NDF :1053518.9/45

All: 2027.010+/-0.203 χ^2/NDF : 1959948.6/86

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -190.842+/-773.627 χ^2/NDF : 15.4/17

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -839.617+/-699.876 χ^2/NDF : 21.8/20

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

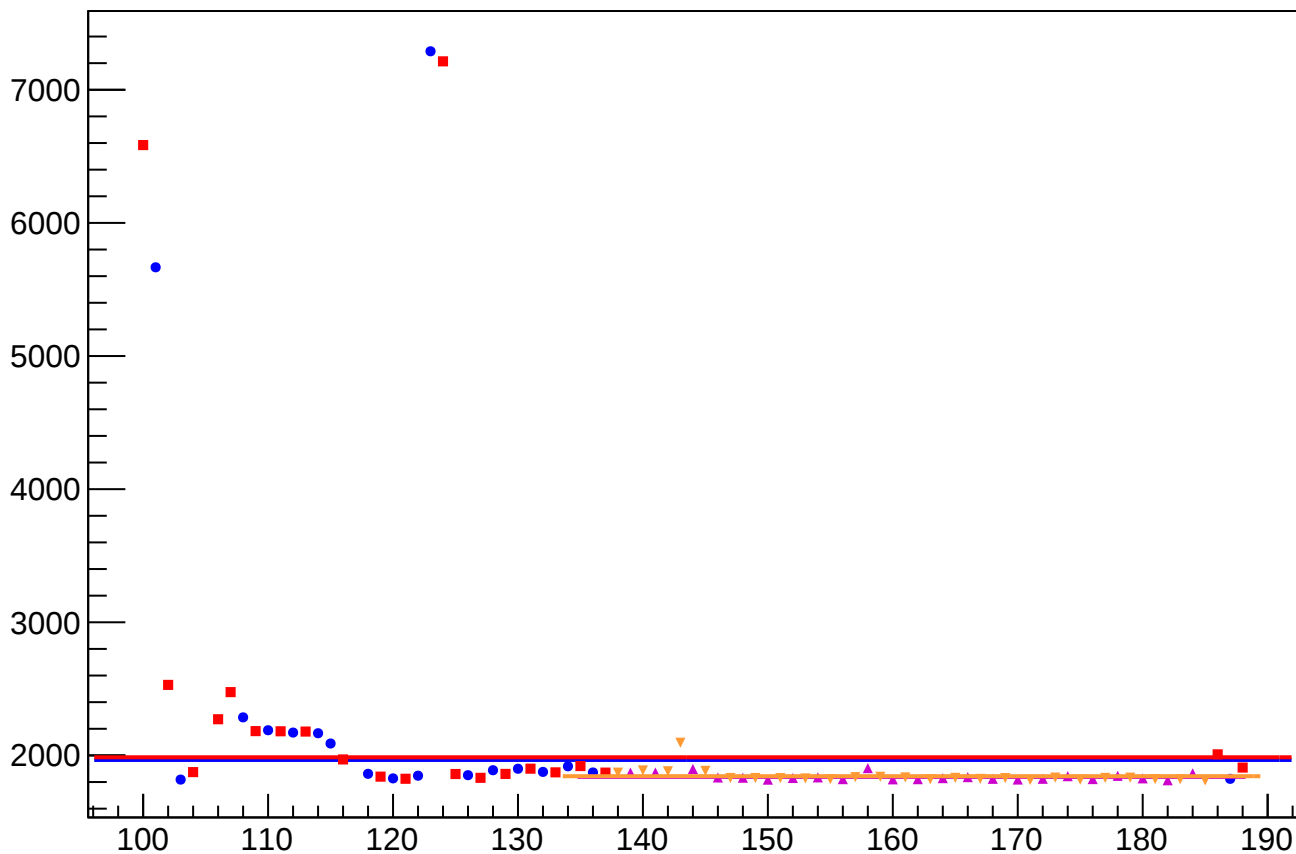
Right: -547.621+/-519.007 χ^2/NDF : 37.6/38

In: -347.753+/-383.285 χ^2/NDF : 49.9/40

Out: -816.990+/-366.563 χ^2/NDF : 49.7/45

All: -592.830+/-264.913 χ^2/NDF : 100.4/86

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1965.981 $\pm$ 0.547 χ^2 /NDF: 603886.2/17

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF:26867.4/24

Right Out: 1985.921 $\pm$ 0.495 χ^2 /NDF: 357628.8/20

Left In: 1838.611 $\pm$ 0.312 χ^2 /NDF:6335.1/22

Left: 1841.243 $\pm$ 0.218 χ^2 /NDF: 33341.4/47

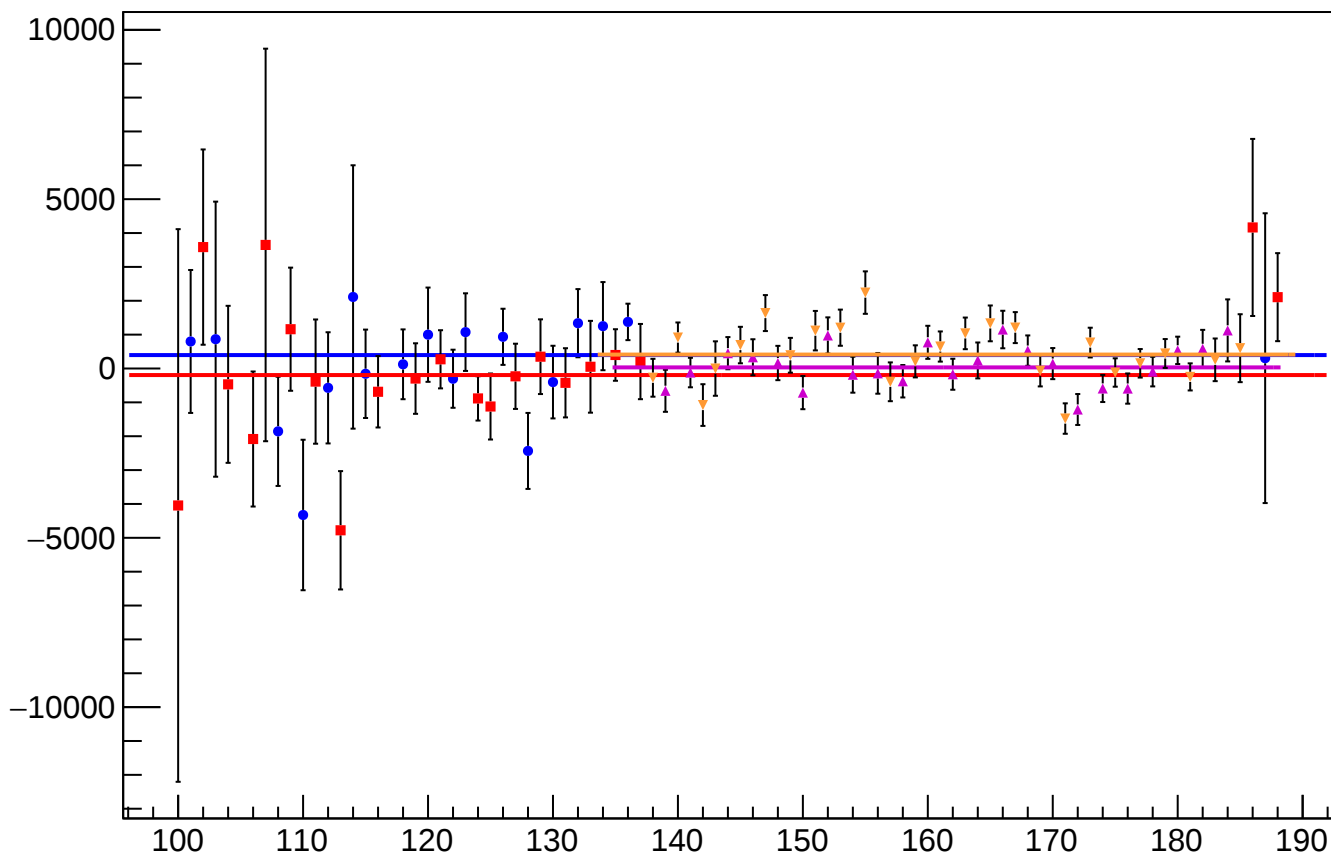
Right: 1976.947 $\pm$ 0.367 χ^2 /NDF: 962245.7/38

In: 1869.875 $\pm$ 0.271 χ^2 /NDF:651127.2/40

Out: 1882.748 $\pm$ 0.259 χ^2 /NDF:444389.3/45

All: 1876.599 $\pm$ 0.187 χ^2 /NDF: 1096694.7/86

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 396.336 $\pm$ 270.384 χ^2/NDF : 20.5/17

Left Out: 411.072 $\pm$ 100.456 χ^2/NDF : 61.2/24

Right Out: -193.837 $\pm$ 260.138 χ^2/NDF : 20.3/20

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

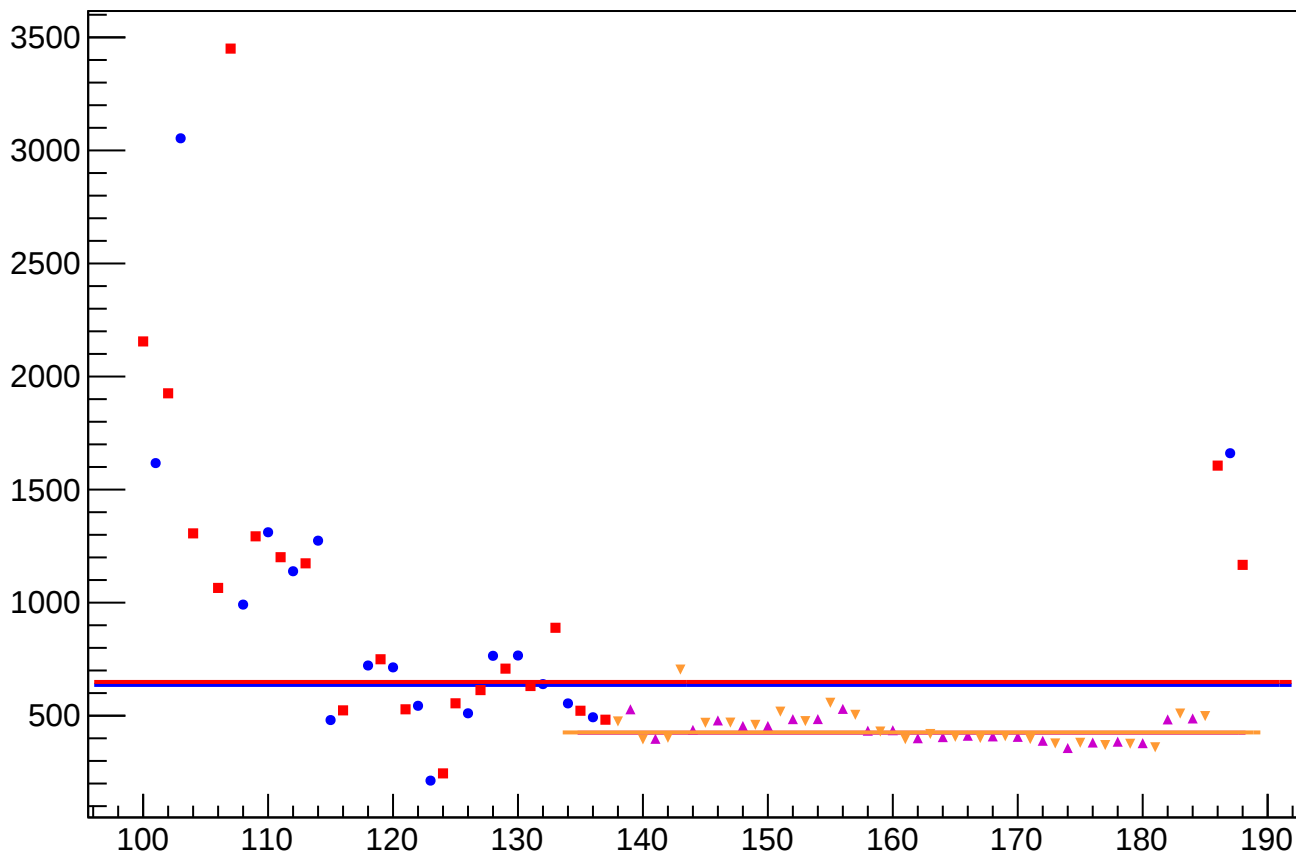
Right: 89.856 $\pm$ 187.463 χ^2/NDF : 43.2/38

In: 78.103 $\pm$ 95.765 χ^2/NDF : 54.8/40

Out: 332.572 $\pm$ 93.711 χ^2/NDF : 86.1/45

All: 208.095 $\pm$ 66.978 χ^2/NDF : 144.5/86

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 636.201 $\pm$ 0.191 χ^2 /NDF: 2373571.3/17

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 649.322 $\pm$ 0.184 χ^2 /NDF: 3415990.0/20

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

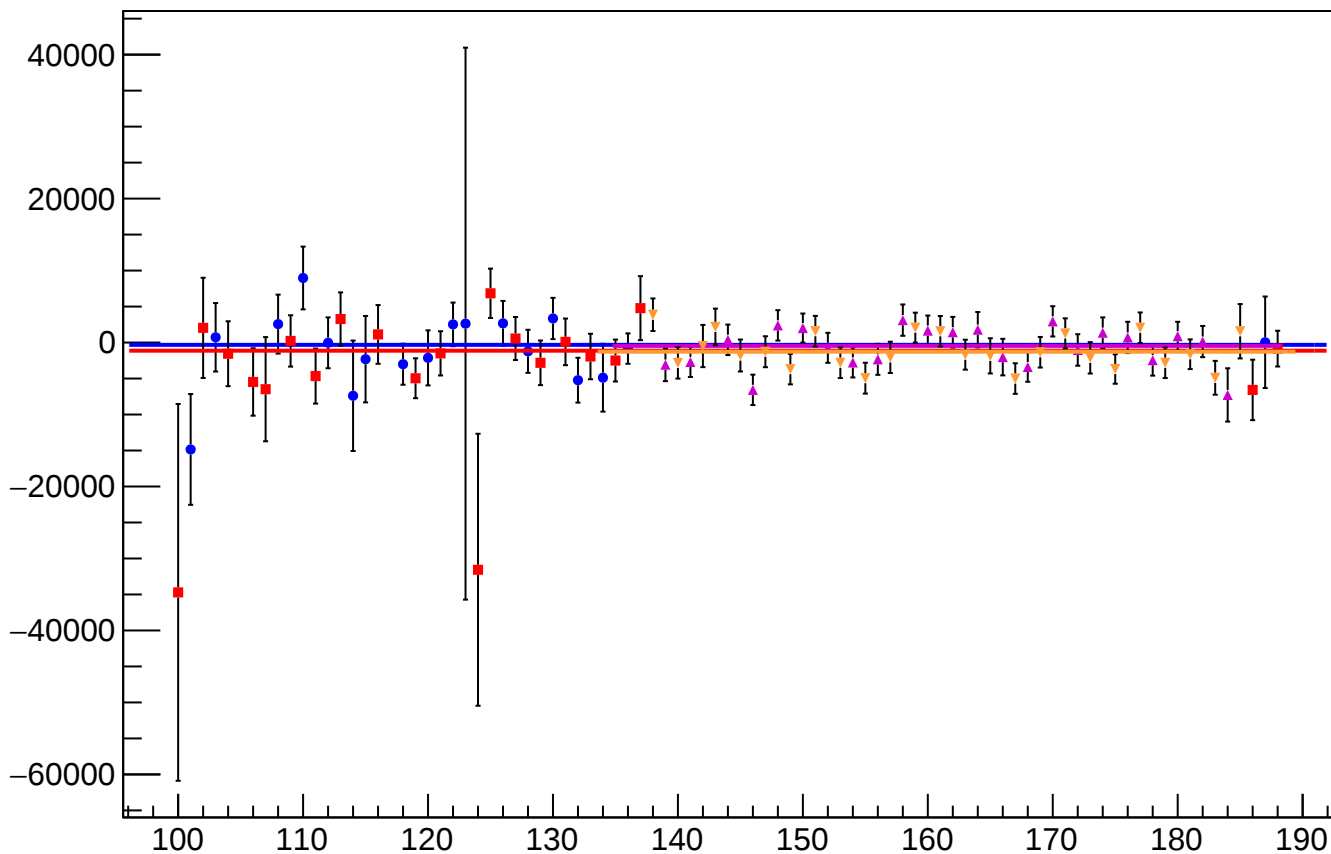
Right: 643.015 $\pm$ 0.133 χ^2 /NDF: 5792007.3/38

In: 451.178 $\pm$ 0.068 χ^2 /NDF: 3836042.1/40

Out: 455.005 $\pm$ 0.066 χ^2 /NDF: 5431434.8/45

All: 453.133 $\pm$ 0.047 χ^2 /NDF: 9269108.1/86

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -318.093 ± 866.205 χ^2/NDF : 17.7/17

Left Out: -1267.885 ± 443.219 χ^2/NDF : 30.8/24

Right Out: -1130.884 ± 806.112 χ^2/NDF : 20.4/20

Left In: -462.599 ± 453.947 χ^2/NDF : 32.6/22

Left: -874.870 ± 317.128 χ^2/NDF : 65.0/47

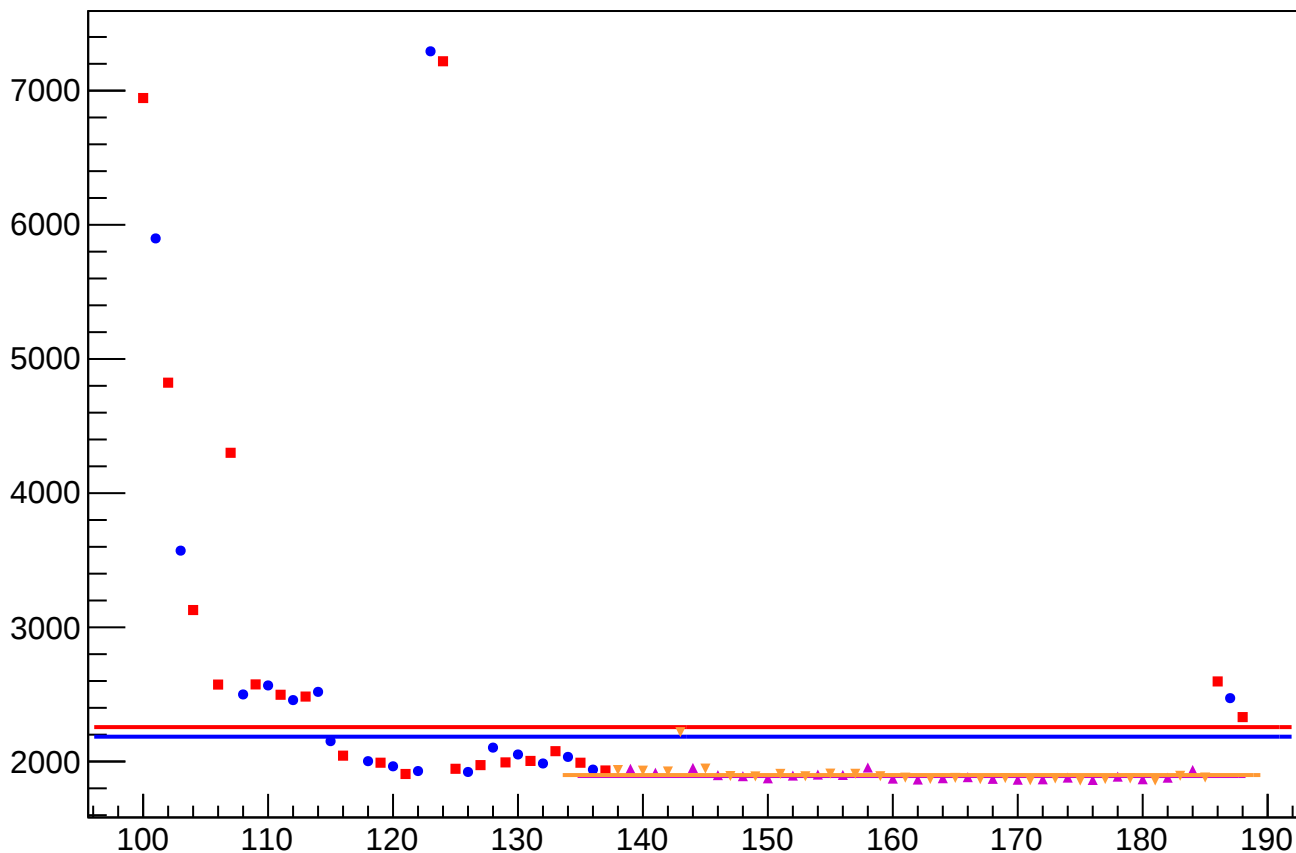
Right: -753.658 ± 590.109 χ^2/NDF : 38.6/38

In: -431.463 ± 402.078 χ^2/NDF : 50.3/40

Out: -1236.083 ± 388.384 χ^2/NDF : 51.3/45

All: -847.708 ± 279.345 χ^2/NDF : 103.7/86

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2184.954+/-0.612 χ^2/NDF : 804991.0/17

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2256.345+/-0.570 χ^2/NDF : 908444.1/20

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

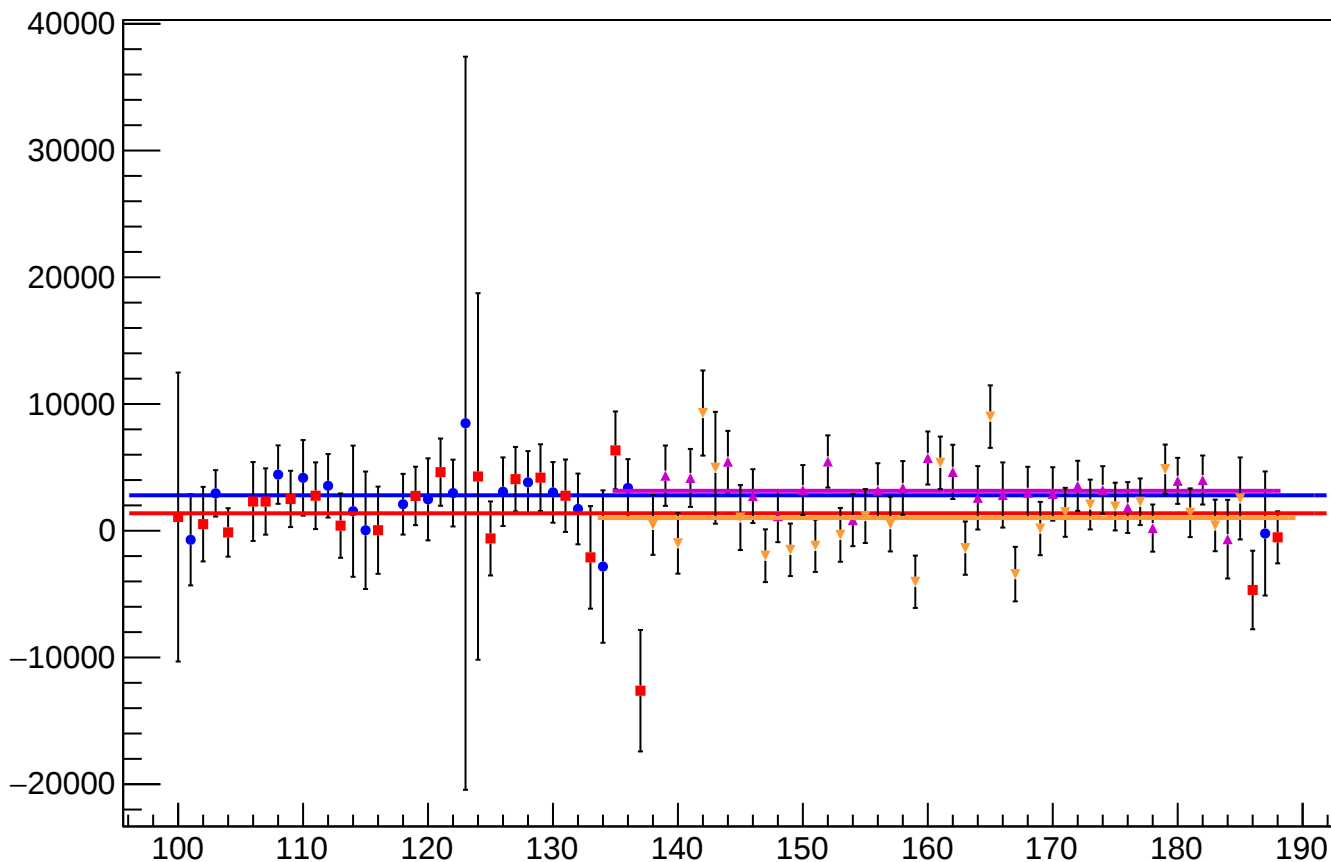
Right: 2223.212+/-0.417 χ^2/NDF : 1720715.5/38

In: 1954.881+/-0.284 χ^2/NDF : 992261.0/40

Out: 1981.922+/-0.275 χ^2/NDF : 1248978.7/45

All: 1968.869+/-0.198 χ^2/NDF : 2245919.3/86

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2797.196+/-674.058 χ^2/NDF : 4.0/17

Left Out: 1001.263+/-435.247 χ^2/NDF : 44.6/24

Right Out: 1376.939+/-613.369 χ^2/NDF : 23.2/20

Left In: 3150.437+/-441.145 χ^2/NDF : 11.8/22

Left: 2061.387+/-309.830 χ^2/NDF : 68.5/47

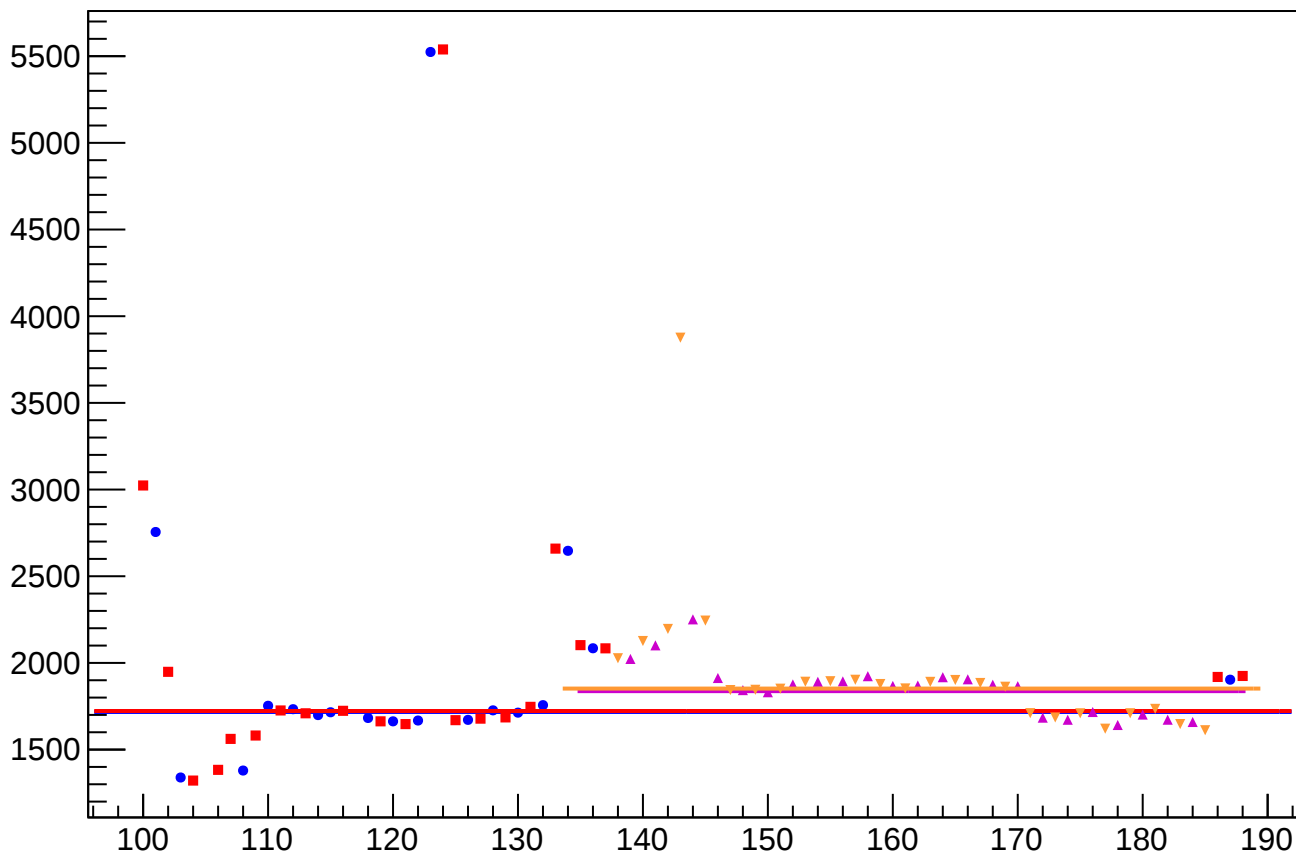
Right: 2020.265+/-453.659 χ^2/NDF : 29.6/38

In: 3044.508+/-369.121 χ^2/NDF : 16.0/40

Out: 1127.077+/-354.960 χ^2/NDF : 68.0/45

All: 2048.307+/-255.854 χ^2/NDF : 98.1/86

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1717.146 $\pm$ 0.477 χ^2 /NDF: 435247.0/17

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1722.607 $\pm$ 0.434 χ^2 /NDF: 486095.5/20

Left In: 1837.151 $\pm$ 0.312 χ^2 /NDF: 200514.0/22

Left: 1844.654 $\pm$ 0.219 χ^2 /NDF: 850610.1/47

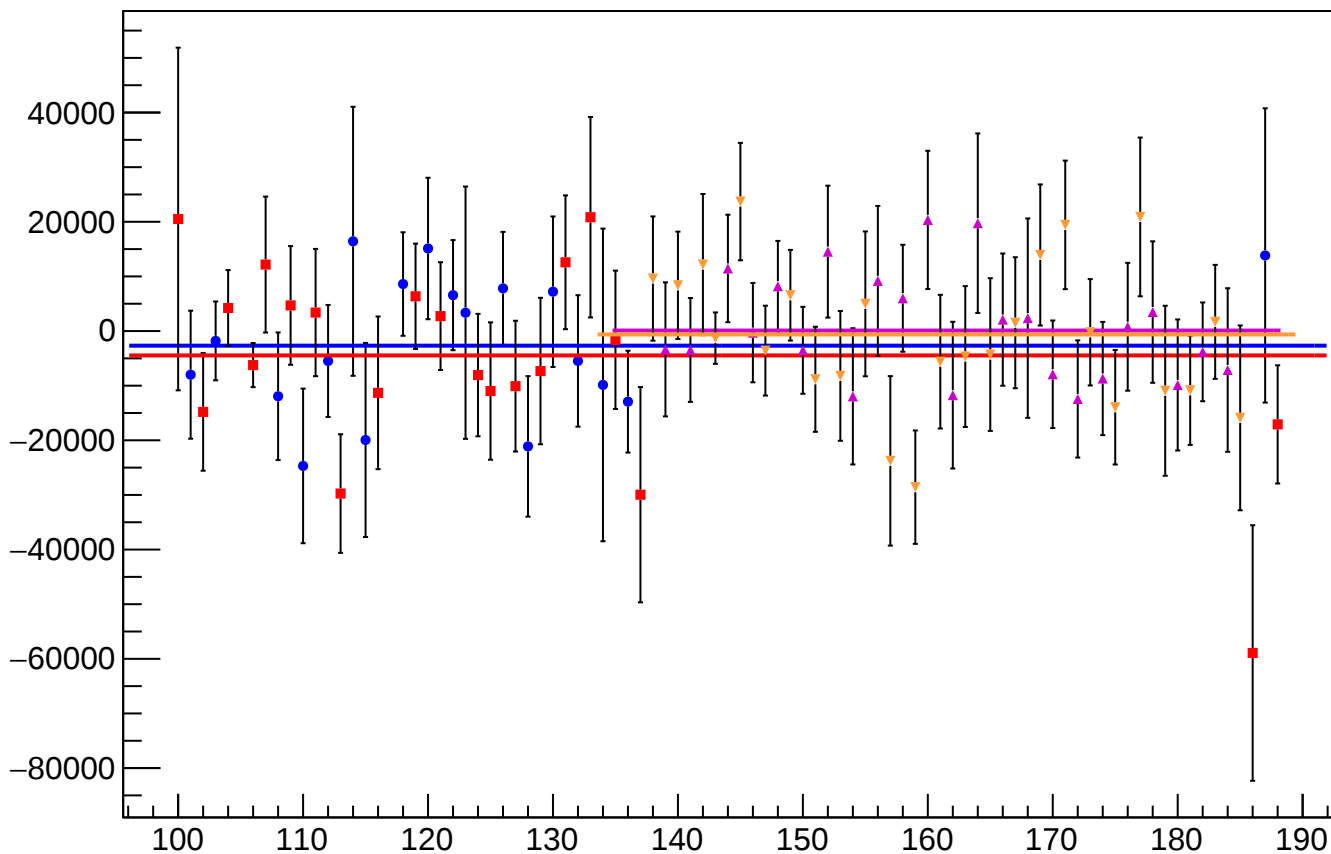
Right: 1720.133 $\pm$ 0.321 χ^2 /NDF: 921414.2/38

In: 1801.164 $\pm$ 0.261 χ^2 /NDF: 680142.7/40

Out: 1808.638 $\pm$ 0.251 χ^2 /NDF: 1194209.1/45

All: 1805.047 $\pm$ 0.181 χ^2 /NDF: 1874777.9/86

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -2675.162 $\pm$ 2843.863 χ^2 /NDF: 14.4/17

Left Out: -619.372 $\pm$ 2069.686 χ^2 /NDF:30.1/24

Right Out: -4463.535 $\pm$ 2211.461 χ^2 /NDF: 26.7/20

Left In: 93.334 $\pm$ 2293.826 χ^2 /NDF:14.6/22

Left: -299.532 $\pm$ 1536.638 χ^2 /NDF: 44.8/47

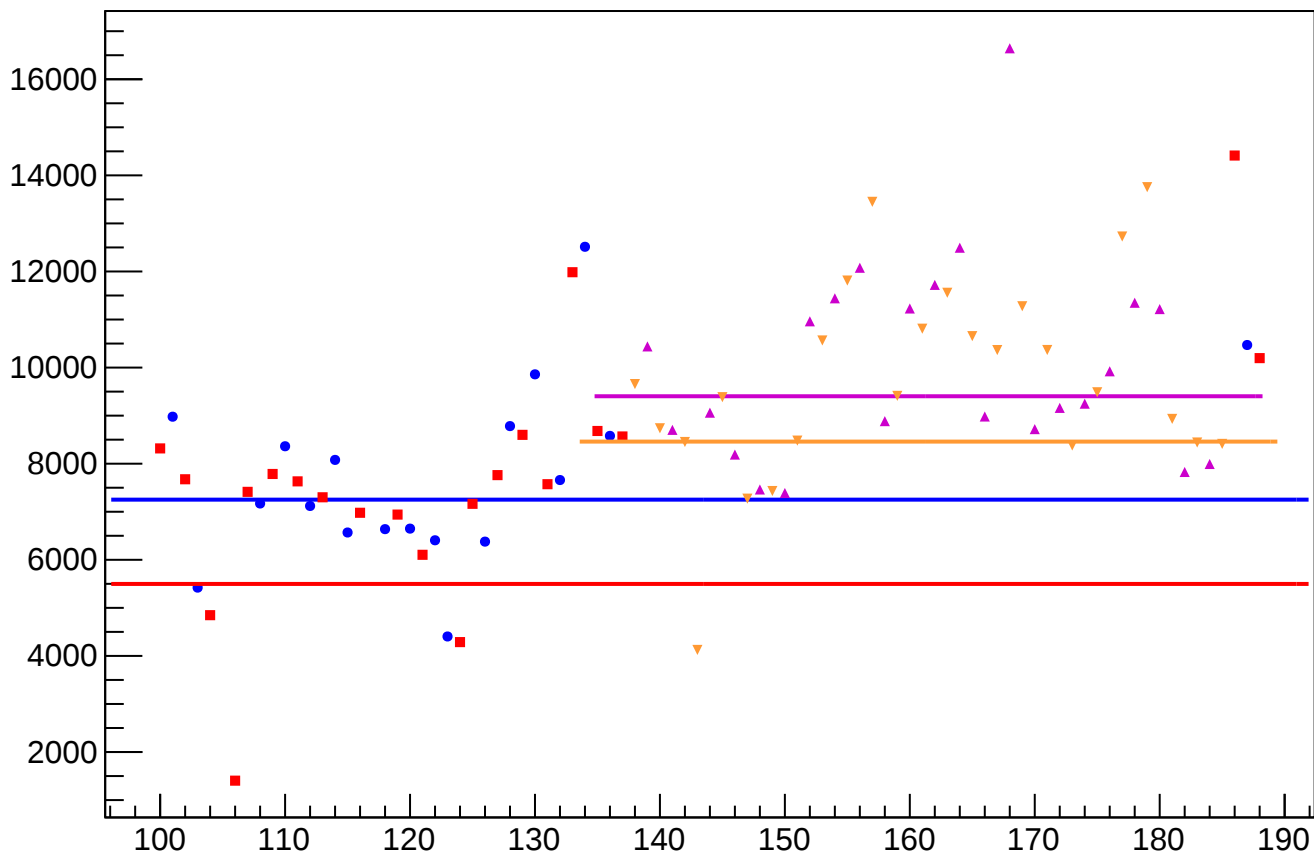
Right: -3789.620 $\pm$ 1745.750 χ^2 /NDF: 41.4/38

In: -997.880 $\pm$ 1785.425 χ^2 /NDF:29.6/40

Out: -2414.289 $\pm$ 1511.126 χ^2 /NDF:58.5/45

All: -1823.131 $\pm$ 1153.451 χ^2 /NDF: 88.4/86

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 7251.846 $\pm$ 2.011 χ^2 /NDF: 500556.8/17

Left Out: 8459.960 $\pm$ 1.463 χ^2 /NDF:3087200.5/24

Right Out: 5497.791 $\pm$ 1.564 χ^2 /NDF: 3896852.9/20

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

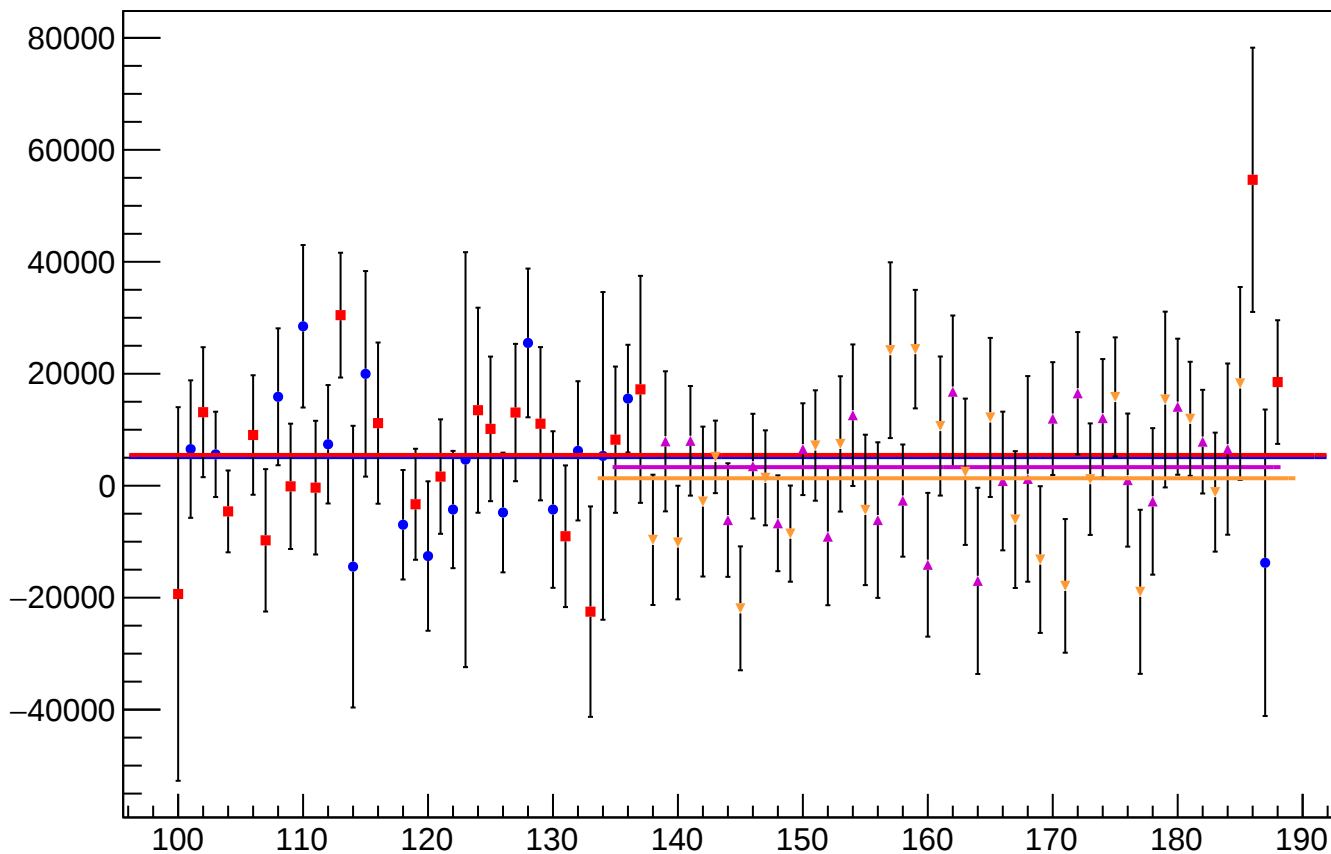
Right: 6158.774 $\pm$ 1.234 χ^2 /NDF: 4871547.6/38

In: 8555.406 $\pm$ 1.262 χ^2 /NDF:2336808.7/40

Out: 7076.864 $\pm$ 1.069 χ^2 /NDF:8896913.9/45

All: 7693.954 $\pm$ 0.816 χ^2 /NDF: 12032841.5/8

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 5106.367+/-2962.109 χ^2/NDF : 14.1/17

Left Out: 1332.828+/-2213.733 χ^2/NDF : 28.0/24

Right Out: 5494.935+/-2692.804 χ^2/NDF : 21.5/20

Left In: 3316.909+/-2344.543 χ^2/NDF : 13.7/22

Left: 2267.978+/-1609.604 χ^2/NDF : 42.2/47

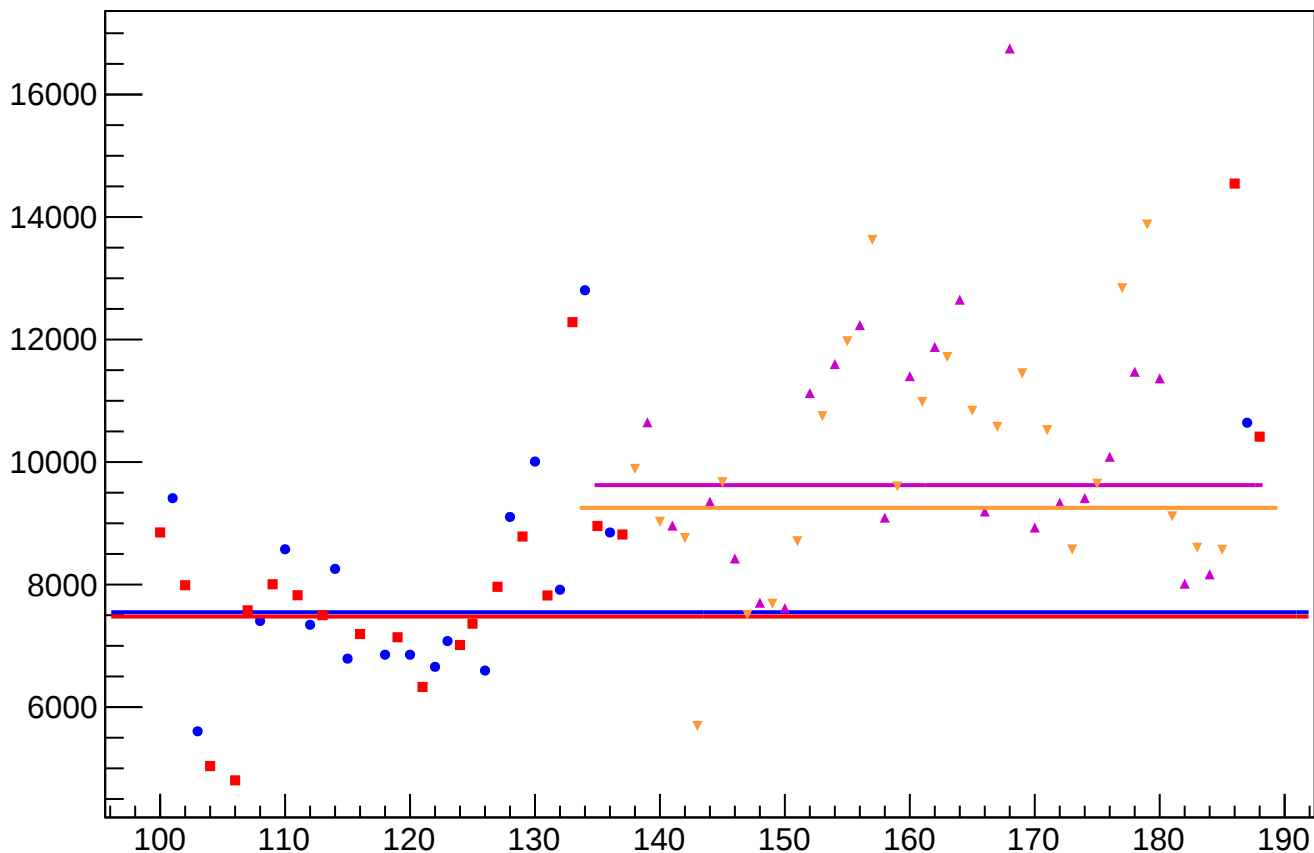
Right: 5319.114+/-1992.521 χ^2/NDF : 35.7/38

In: 4006.171+/-1838.368 χ^2/NDF : 28.1/40

Out: 3011.334+/-1710.053 χ^2/NDF : 51.0/45

All: 3472.825+/-1252.097 χ^2/NDF : 79.2/86

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 7548.598 $\pm$ 2.094 χ^2 /NDF: 455934.0/17

Left Out: 9252.712 $\pm$ 1.565 χ^2 /NDF:1597668.9/24

Right Out: 7477.823 $\pm$ 1.904 χ^2 /NDF: 900968.9/20

Left In: 9623.485 $\pm$ 1.658 χ^2 /NDF:1069924.0/22

Left: 9427.467 $\pm$ 1.138 χ^2 /NDF: 2694036.4/47

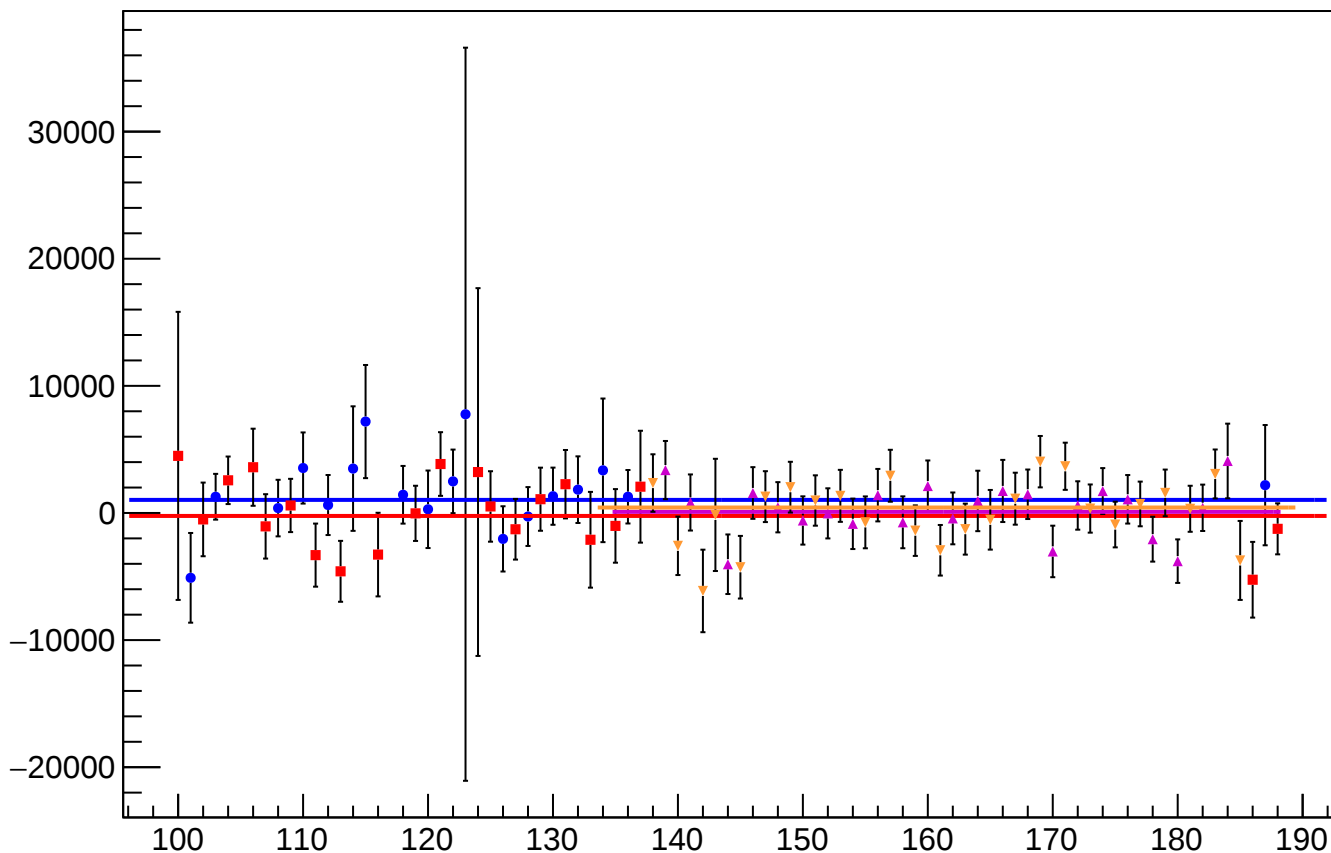
Right: 7509.845 $\pm$ 1.409 χ^2 /NDF: 1357528.2/38

In: 8824.257 $\pm$ 1.300 χ^2 /NDF:2129221.8/40

Out: 8536.828 $\pm$ 1.209 χ^2 /NDF:3017191.0/45

All: 8670.157 $\pm$ 0.885 χ^2 /NDF: 5172625.2/86

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1029.141 $\pm$ 640.587 χ^2 /NDF: 8.7/17

Left Out: 429.447 $\pm$ 416.378 χ^2 /NDF:28.7/24

Right Out: -233.672 $\pm$ 585.269 χ^2 /NDF: 17.8/20

Left In: 88.373 $\pm$ 421.957 χ^2 /NDF:21.0/22

Left: 261.180 $\pm$ 296.376 χ^2 /NDF: 50.0/47

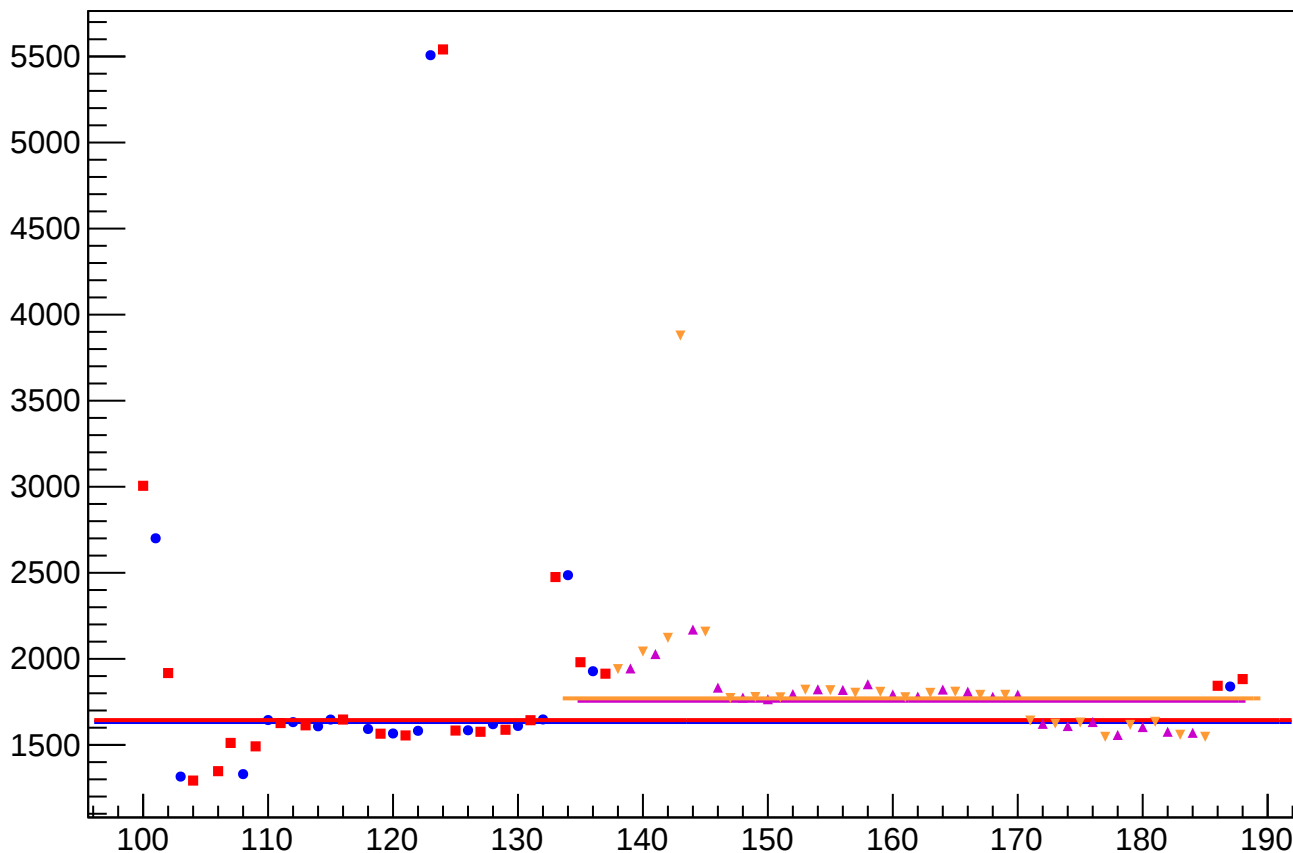
Right: 340.864 $\pm$ 432.083 χ^2 /NDF: 28.6/38

In: 373.046 $\pm$ 352.379 χ^2 /NDF:31.2/40

Out: 206.607 $\pm$ 339.278 χ^2 /NDF:47.4/45

All: 286.675 $\pm$ 244.406 χ^2 /NDF: 78.7/86

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1633.050+/-0.453 χ^2/NDF : 410616.2/17

Left Out: 1770.384+/-0.294 χ^2/NDF : 699536.9/24

Right Out: 1644.247+/-0.414 χ^2/NDF : 475876.4/20

Left In: 1756.623+/-0.298 χ^2/NDF : 223077.6/22

Left: 1763.595+/-0.210 χ^2/NDF : 923692.1/47

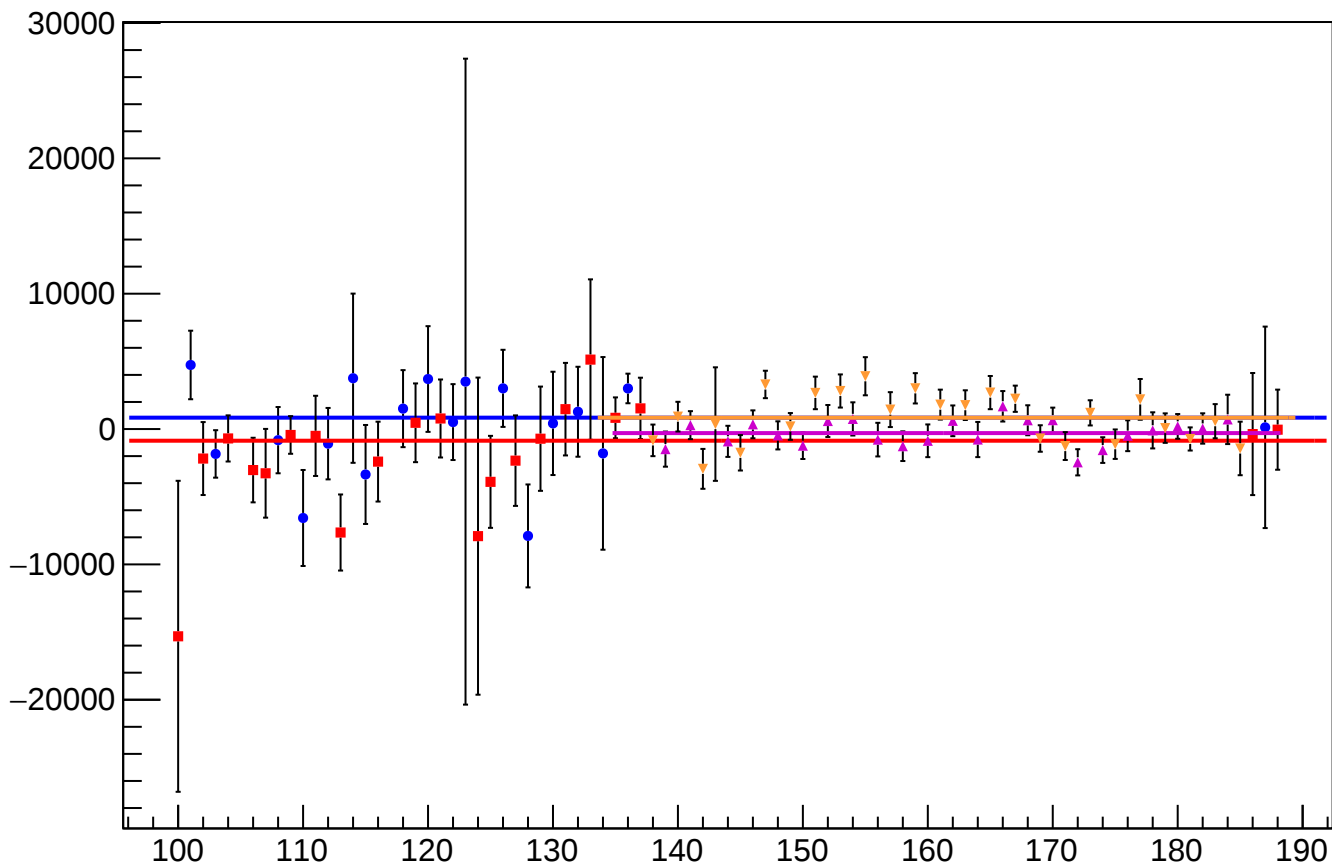
Right: 1639.153+/-0.306 χ^2/NDF : 886825.7/38

In: 1719.230+/-0.249 χ^2/NDF : 685598.6/40

Out: 1727.996+/-0.240 χ^2/NDF : 1237093.1/45

All: 1723.779+/-0.173 χ^2/NDF : 1923333.9/86

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 841.259 ± 630.505 $\chi^2/\text{NDF}: 22.1/17$

Left Out: 839.344 ± 230.465 $\chi^2/\text{NDF}: 54.4/24$

Right Out: -862.147 ± 574.344 $\chi^2/\text{NDF}: 15.2/20$

Left In: -298.801 ± 231.400 $\chi^2/\text{NDF}: 18.3/22$

Left: 272.574 ± 163.293 $\chi^2/\text{NDF}: 84.9/47$

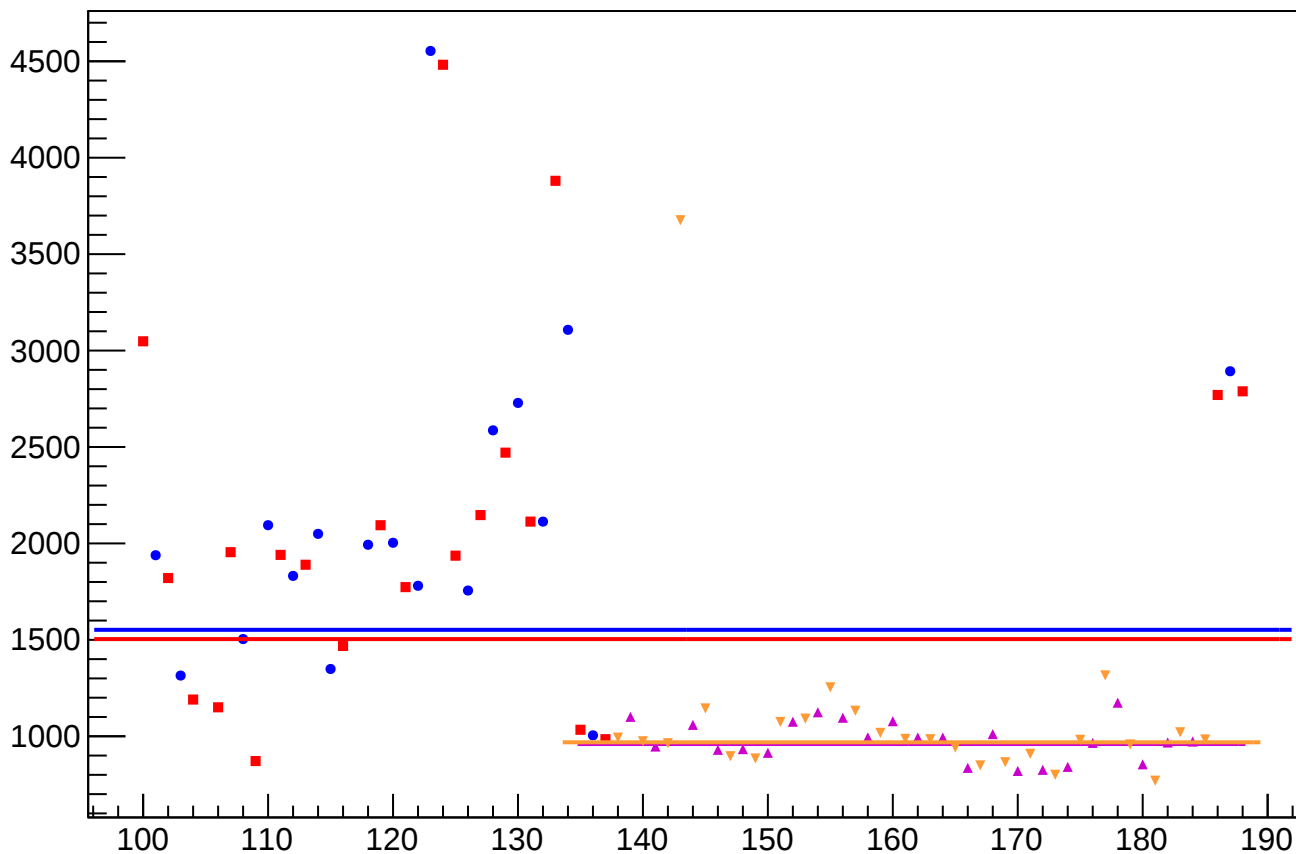
Right: -89.673 ± 424.592 $\chi^2/\text{NDF}: 41.4/38$

In: -163.470 ± 217.232 $\chi^2/\text{NDF}: 43.3/40$

Out: 603.373 ± 213.888 $\chi^2/\text{NDF}: 77.2/45$

All: 225.899 ± 152.410 $\chi^2/\text{NDF}: 126.9/86$

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1551.983 $\pm$ 0.446 χ^2 /NDF: 1358599.6/17

Left Out: 968.712 $\pm$ 0.163 χ^2 /NDF: 1393696.6/24

Right Out: 1503.827 $\pm$ 0.406 χ^2 /NDF: 2388137.7/20

Left In: 959.805 $\pm$ 0.164 χ^2 /NDF: 371210.5/22

Left: 964.276 $\pm$ 0.115 χ^2 /NDF: 1766394.7/47

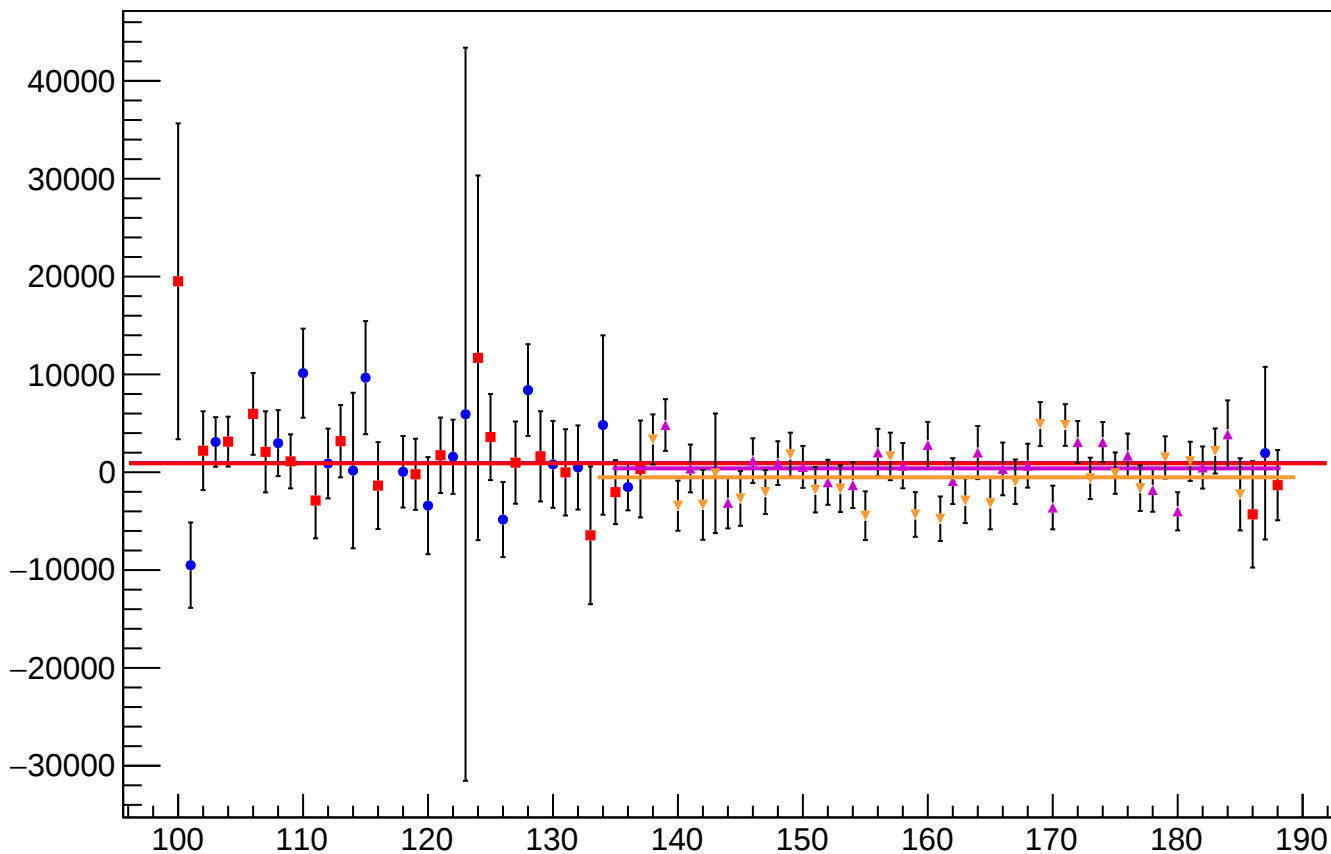
Right: 1525.665 $\pm$ 0.300 χ^2 /NDF: 3753113.4/38

In: 1030.099 $\pm$ 0.154 χ^2 /NDF: 3284626.5/40

Out: 1042.924 $\pm$ 0.151 χ^2 /NDF: 5277183.2/45

All: 1036.611 $\pm$ 0.108 χ^2 /NDF: 8565349.2/86

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 940.643+/-964.735 χ^2/NDF : 20.1/17

Left Out: -517.719+/-481.486 χ^2/NDF : 34.0/24

Right Out: 915.386+/-885.776 χ^2/NDF : 9.5/20

Left In: 397.398+/-485.048 χ^2/NDF : 21.8/22

Left: -63.533+/-341.714 χ^2/NDF : 57.7/47

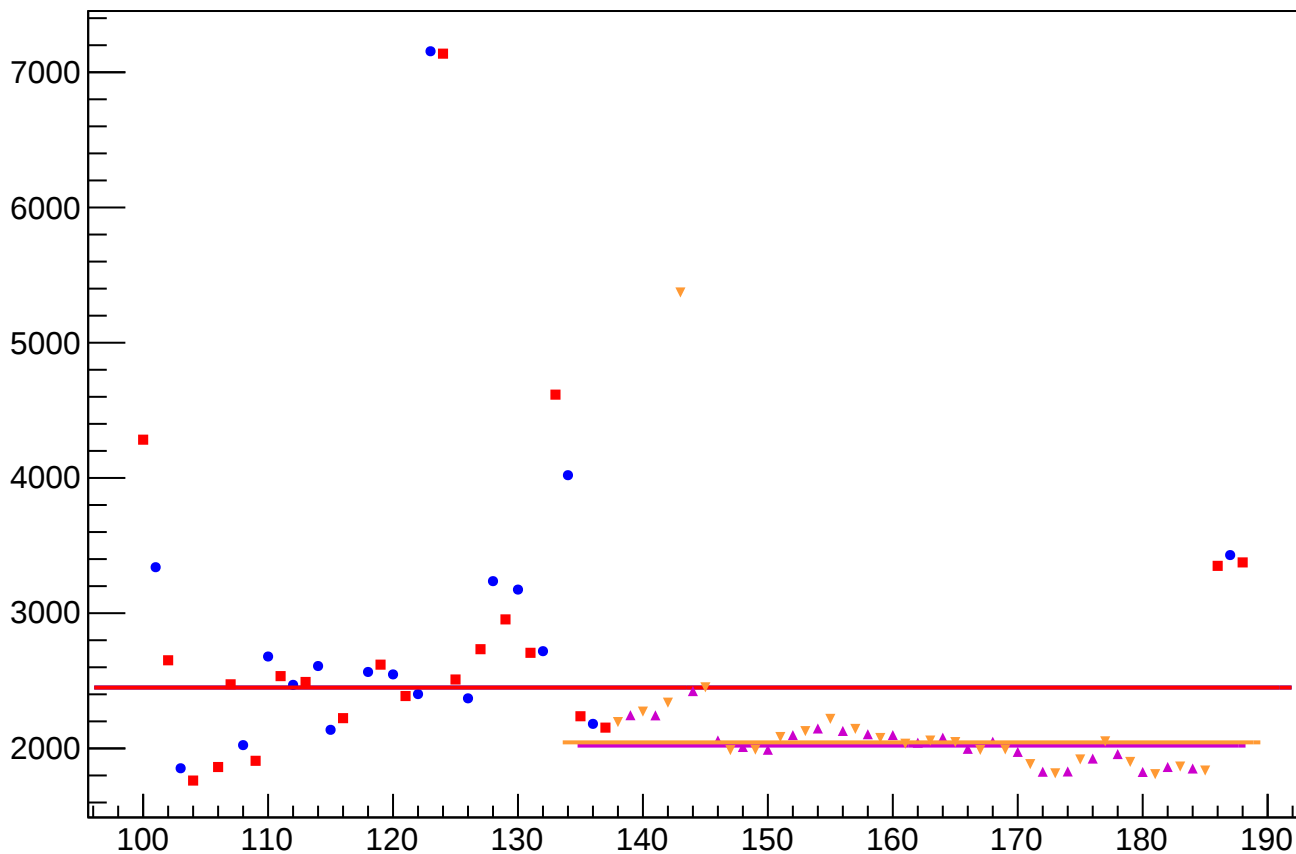
Right: 926.939+/-652.470 χ^2/NDF : 29.6/38

In: 507.014+/-433.357 χ^2/NDF : 42.2/40

Out: -190.854+/-423.028 χ^2/NDF : 45.5/45

All: 149.664+/-302.712 χ^2/NDF : 89.1/86

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2450.332 $\pm$ 0.682 χ^2 /NDF: 499892.0/17

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2450.023 $\pm$ 0.626 χ^2 /NDF: 863123.1/20

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

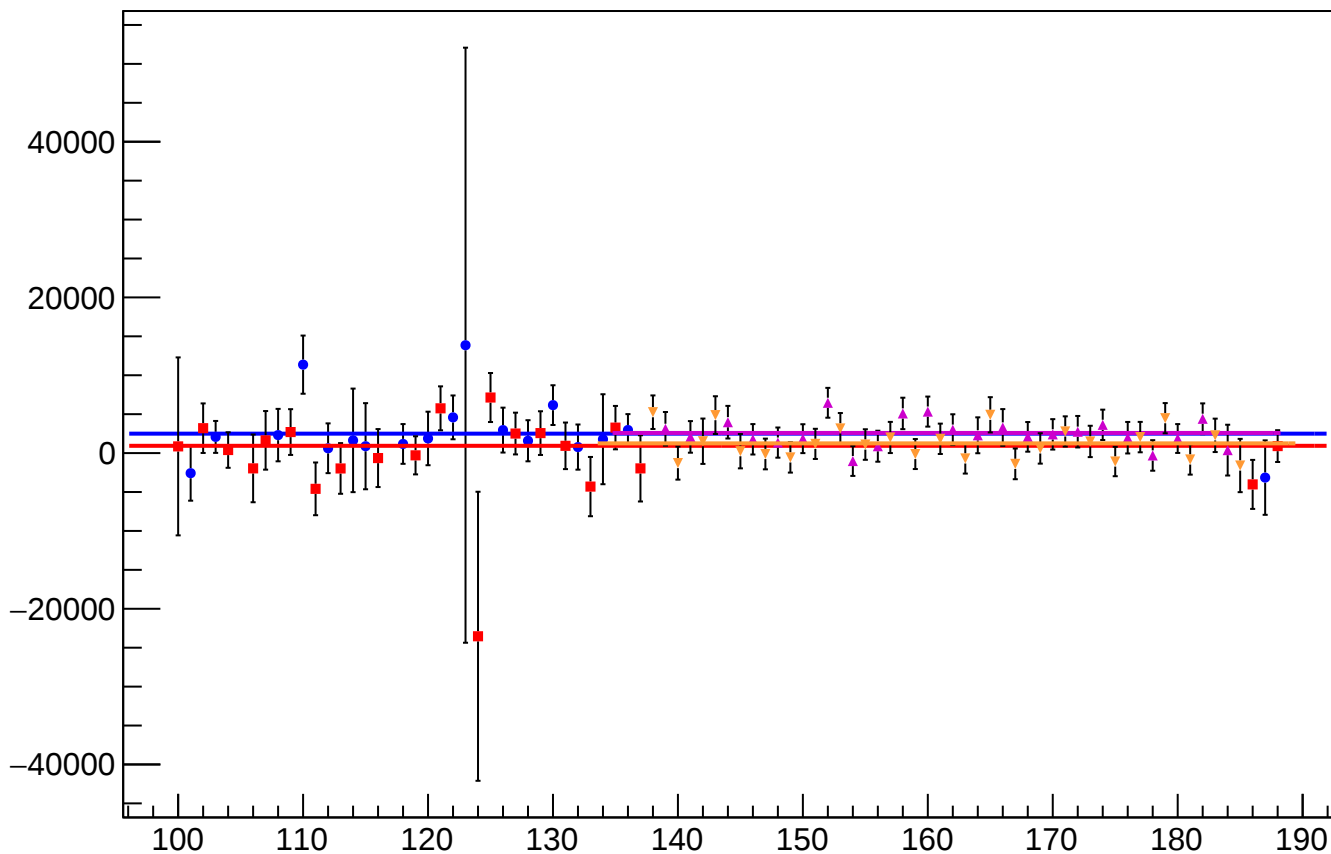
Right: 2450.164 $\pm$ 0.461 χ^2 /NDF: 1363015.3/38

In: 2107.472 $\pm$ 0.306 χ^2 /NDF: 989859.4/40

Out: 2137.164 $\pm$ 0.299 χ^2 /NDF: 1975055.0/45

All: 2122.676 $\pm$ 0.214 χ^2 /NDF: 2969722.2/86

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2496.956+/-736.273 χ^2/NDF : 13.1/17

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 935.652+/-680.730 χ^2/NDF : 20.0/20

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

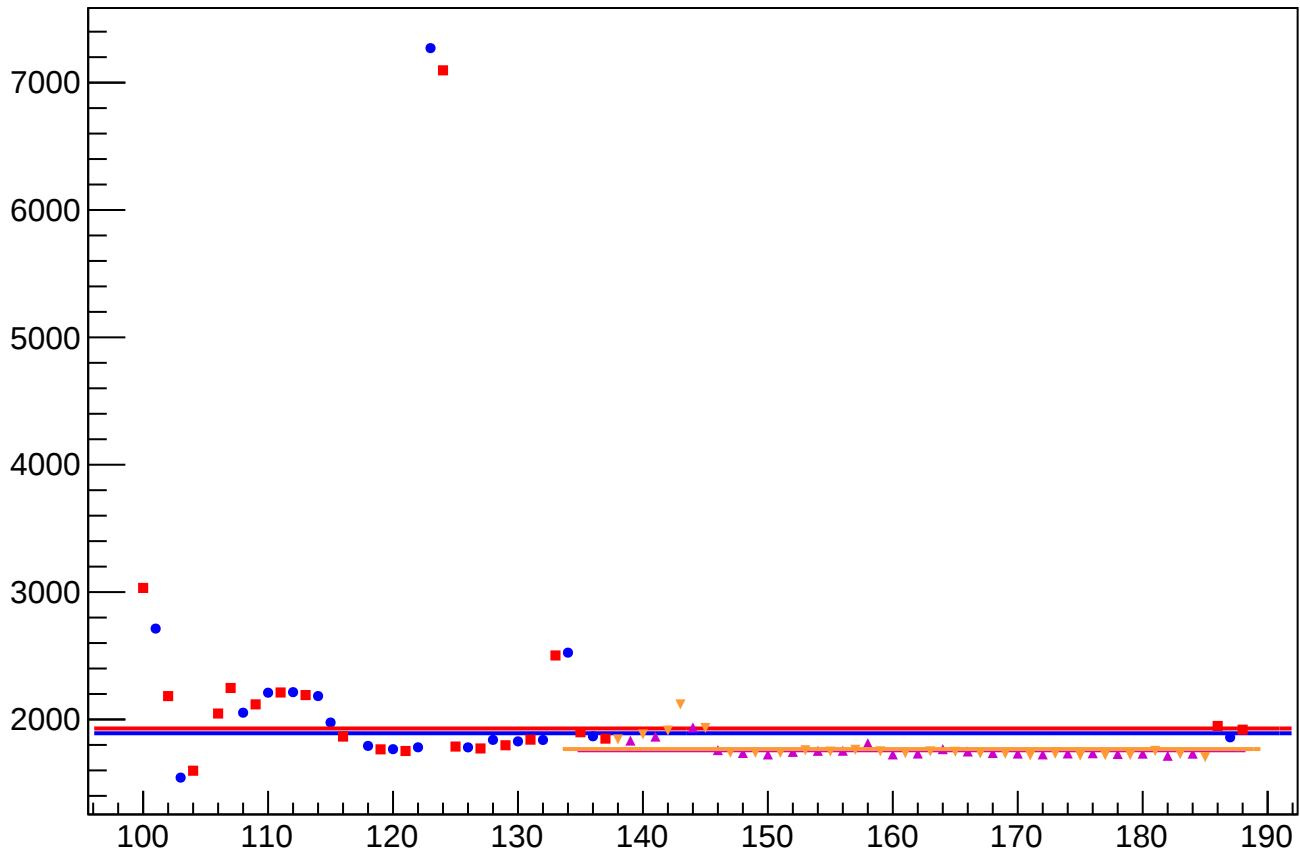
Right: 1655.198+/-499.833 χ^2/NDF : 35.6/38

In: 2564.726+/-365.806 χ^2/NDF : 30.6/40

Out: 1165.517+/-352.775 χ^2/NDF : 43.2/45

All: 1839.756+/-253.931 χ^2/NDF : 81.4/86

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1891.596+/-0.521 χ^2/NDF : 287820.9/17

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1929.108+/-0.481 χ^2/NDF : 360401.6/20

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

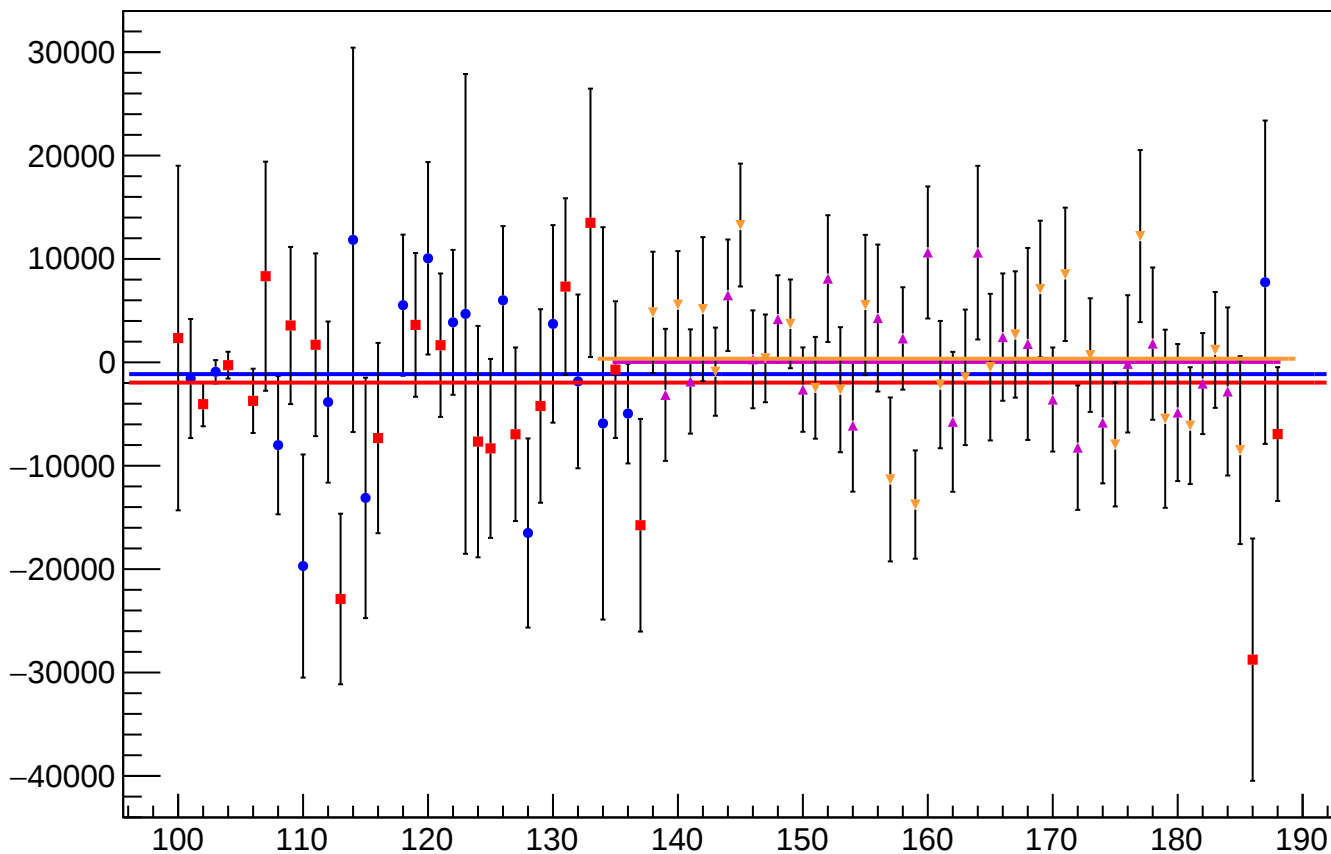
Right: 1911.845+/-0.353 χ^2/NDF : 651024.9/38

In: 1791.035+/-0.259 χ^2/NDF : 367163.9/40

Out: 1810.999+/-0.249 χ^2/NDF : 520669.1/45

All: 1801.382+/-0.180 χ^2/NDF : 890920.6/86

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1140.000 $\pm$ 983.306 χ^2 /NDF: 13.8/17

Left Out: 351.227 $\pm$ 1170.051 χ^2 /NDF:27.8/24

Right Out: -1957.892 $\pm$ 929.290 χ^2 /NDF: 23.8/20

Left In: 40.618 $\pm$ 1207.491 χ^2 /NDF:16.0/22

Left: 200.813 $\pm$ 840.276 χ^2 /NDF: 43.9/47

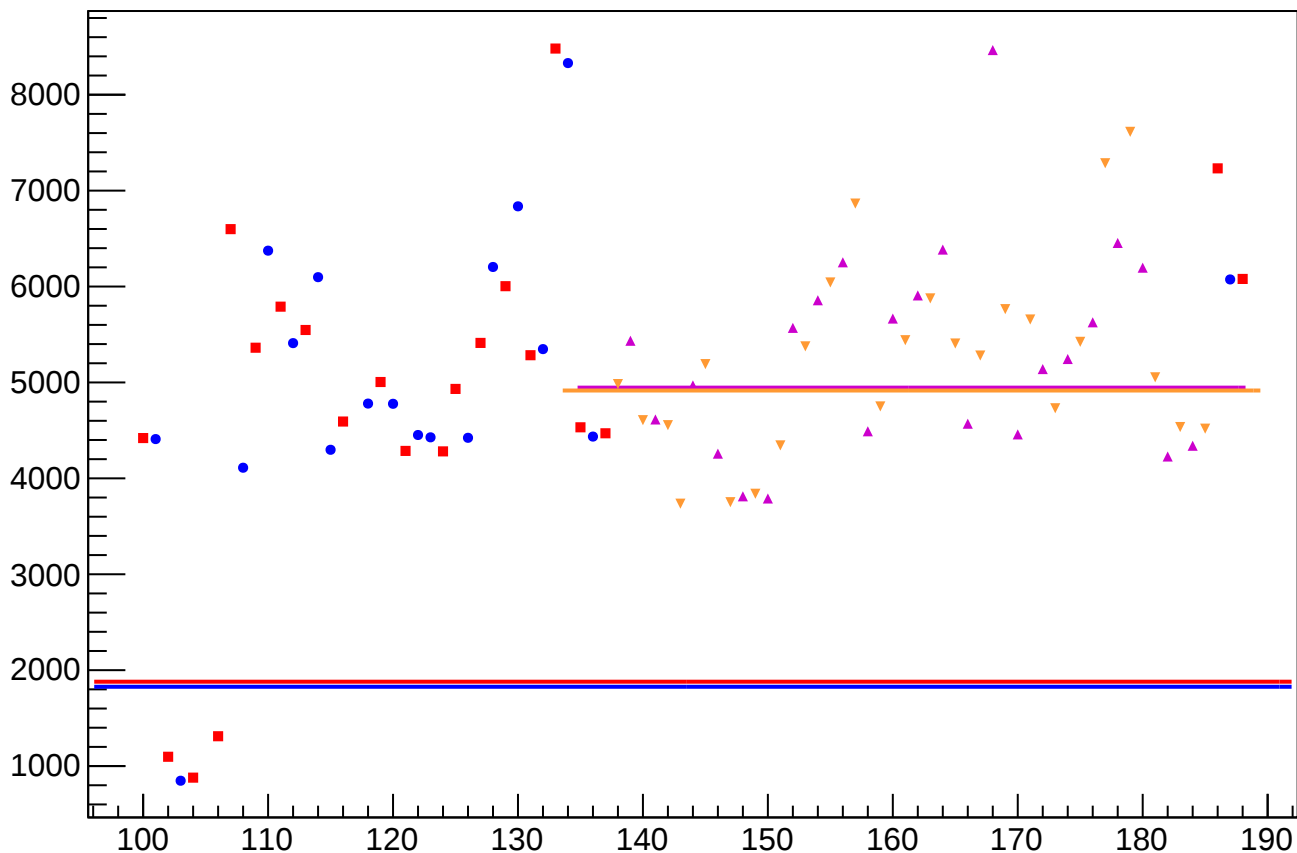
Right: -1572.026 $\pm$ 675.396 χ^2 /NDF: 37.9/38

In: -669.252 $\pm$ 762.471 χ^2 /NDF:30.4/40

Out: -1064.714 $\pm$ 727.697 χ^2 /NDF:54.0/45

All: -876.206 $\pm$ 526.424 χ^2 /NDF: 84.5/86

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 1826.950+/-0.695 χ^2/NDF : 6586713.5/17

Left Out: 4915.865+/-0.827 χ^2/NDF : 1186479.7/24

Right Out: 1879.832+/-0.657 χ^2/NDF : 7589848.4/20

Left In: 4945.817+/-0.854 χ^2/NDF : 1188288.6/22

Left: 4930.370+/-0.594 χ^2/NDF : 2375402.9/47

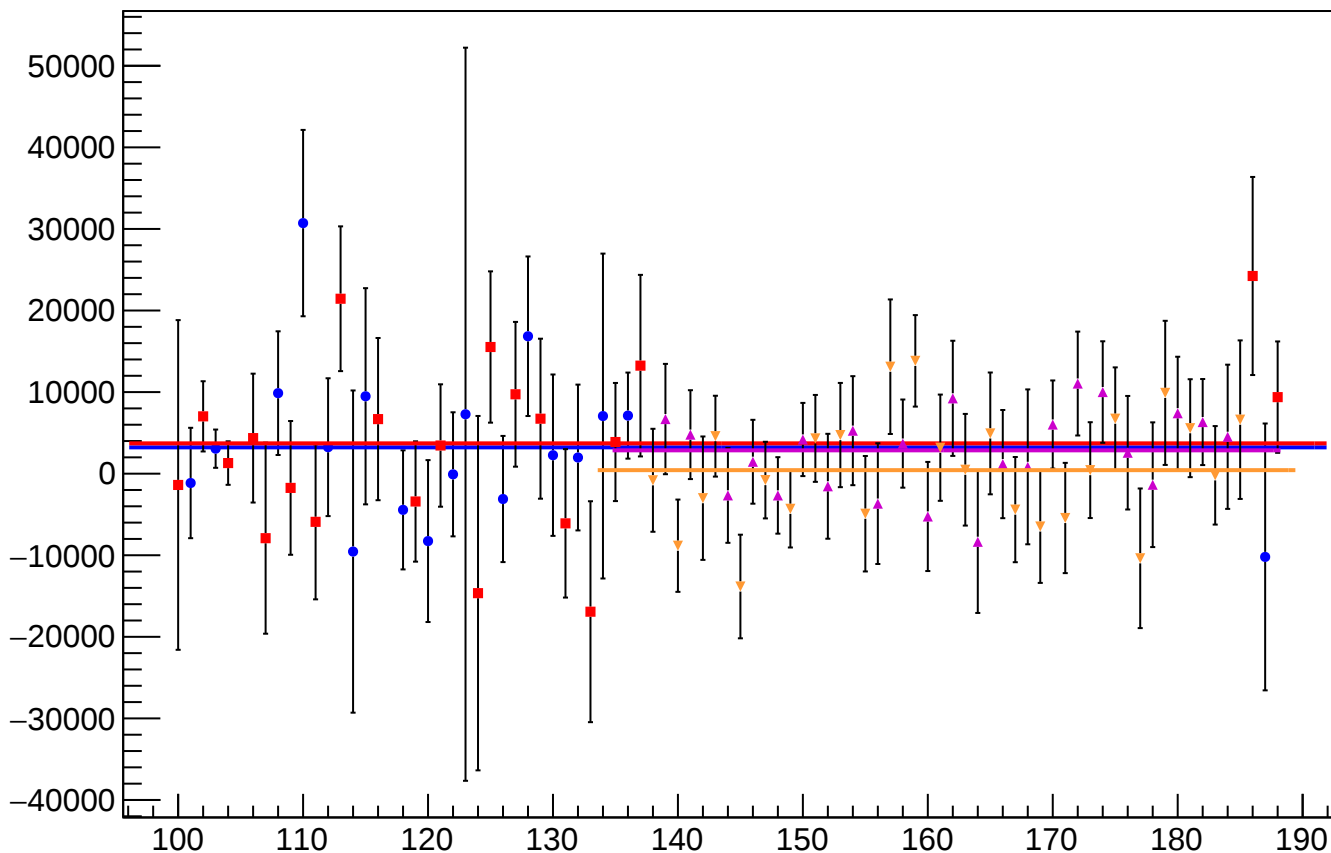
Right: 1854.884+/-0.478 χ^2/NDF : 14179617.4/38

In: 3070.535+/-0.539 χ^2/NDF : 15797789.7/40

Out: 3054.184+/-0.515 χ^2/NDF : 17033510.0/45

All: 3061.978+/-0.372 χ^2/NDF : 32831781.1/8

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 3224.319+/-1601.553 χ^2/NDF : 14.2/17

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 3716.501+/-1552.361 χ^2/NDF : 19.6/20

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

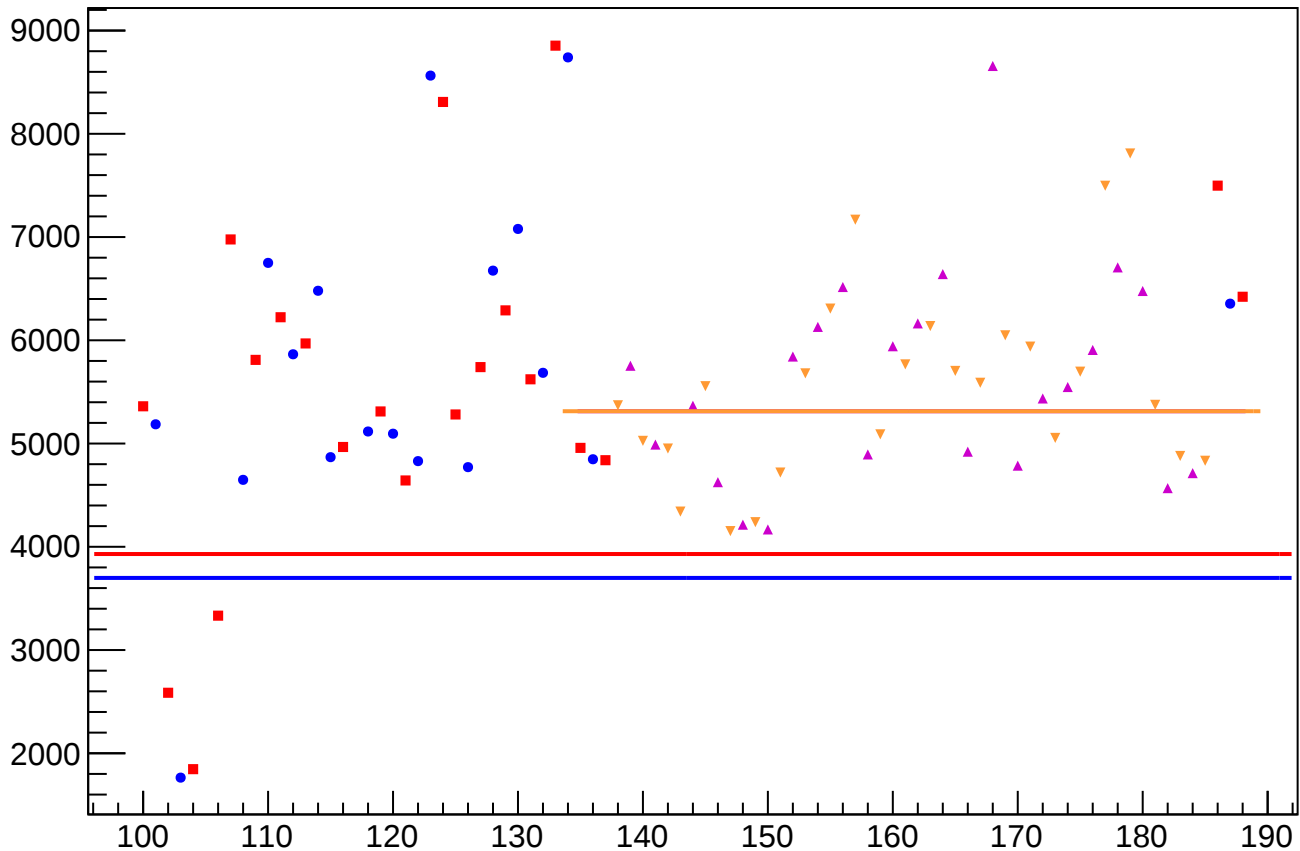
Right: 3478.085+/-1114.670 χ^2/NDF : 33.8/38

In: 3003.822+/-1005.734 χ^2/NDF : 27.1/40

Out: 1733.614+/-977.494 χ^2/NDF : 49.4/45

All: 2350.634+/-700.964 χ^2/NDF : 77.3/86

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 3698.452 ± 1.132 $\chi^2/\text{NDF}: 2833437.5/17$

Left Out: 5313.008 ± 0.890 $\chi^2/\text{NDF}: 894369.8/24$

Right Out: 3929.862 ± 1.091 $\chi^2/\text{NDF}: 3162435.8/20$

Left In: 5312.861 ± 0.914 $\chi^2/\text{NDF}: 957400.7/22$

Left: 5312.937 ± 0.637 $\chi^2/\text{NDF}: 1851770.5/47$

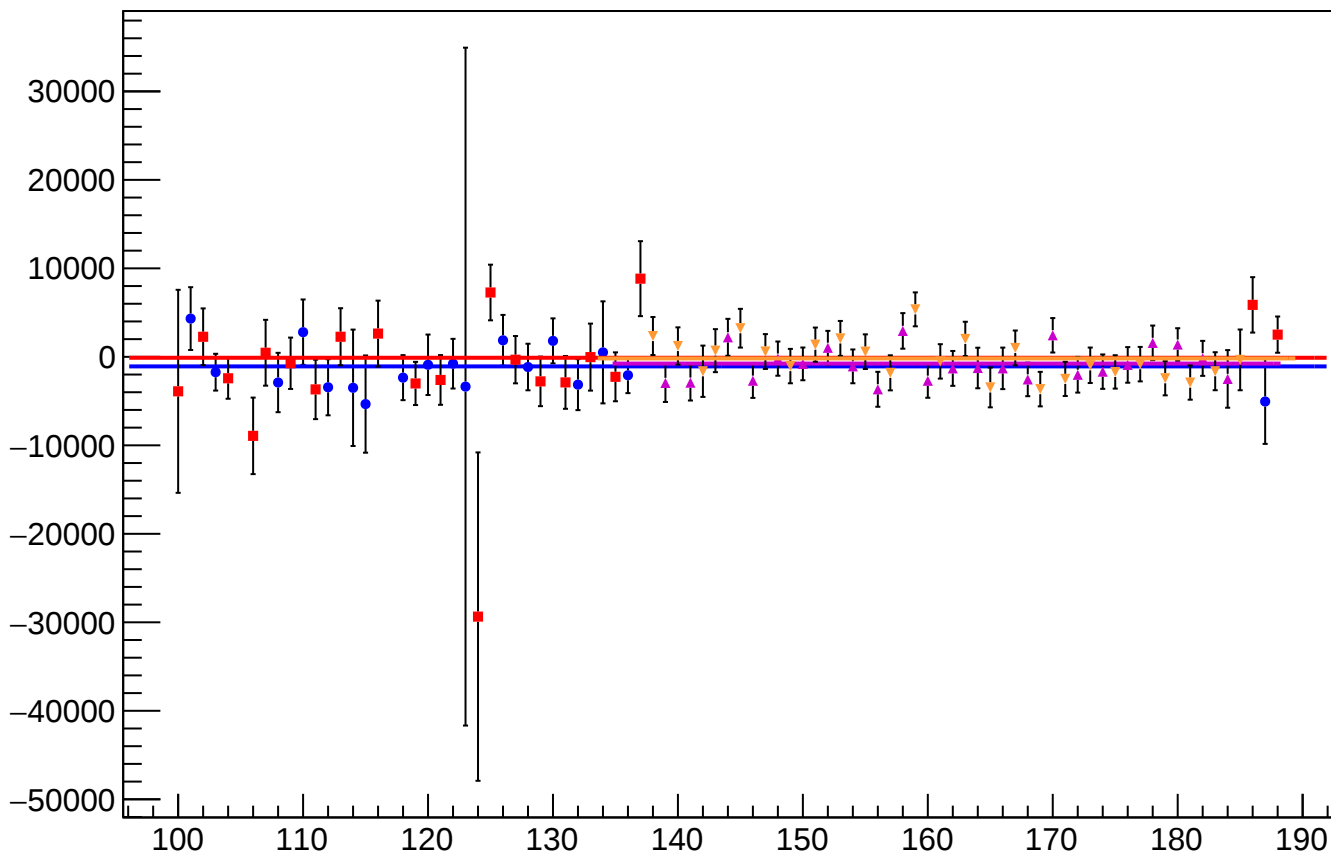
Right: 3818.486 ± 0.786 $\chi^2/\text{NDF}: 6017532.0/38$

In: 4676.216 ± 0.711 $\chi^2/\text{NDF}: 5021659.1/40$

Out: 4760.464 ± 0.689 $\chi^2/\text{NDF}: 5022222.4/45$

All: 4719.644 ± 0.495 $\chi^2/\text{NDF}: 10051115.7/8$

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1079.898 $\pm$ 734.051 χ^2 /NDF: 9.2/17

Left Out: -179.794 $\pm$ 410.976 χ^2 /NDF:29.3/24

Right Out: -103.761 $\pm$ 679.075 χ^2 /NDF: 30.4/20

Left In: -759.753 $\pm$ 419.905 χ^2 /NDF:20.3/22

Left: -463.542 $\pm$ 293.710 χ^2 /NDF: 50.5/47

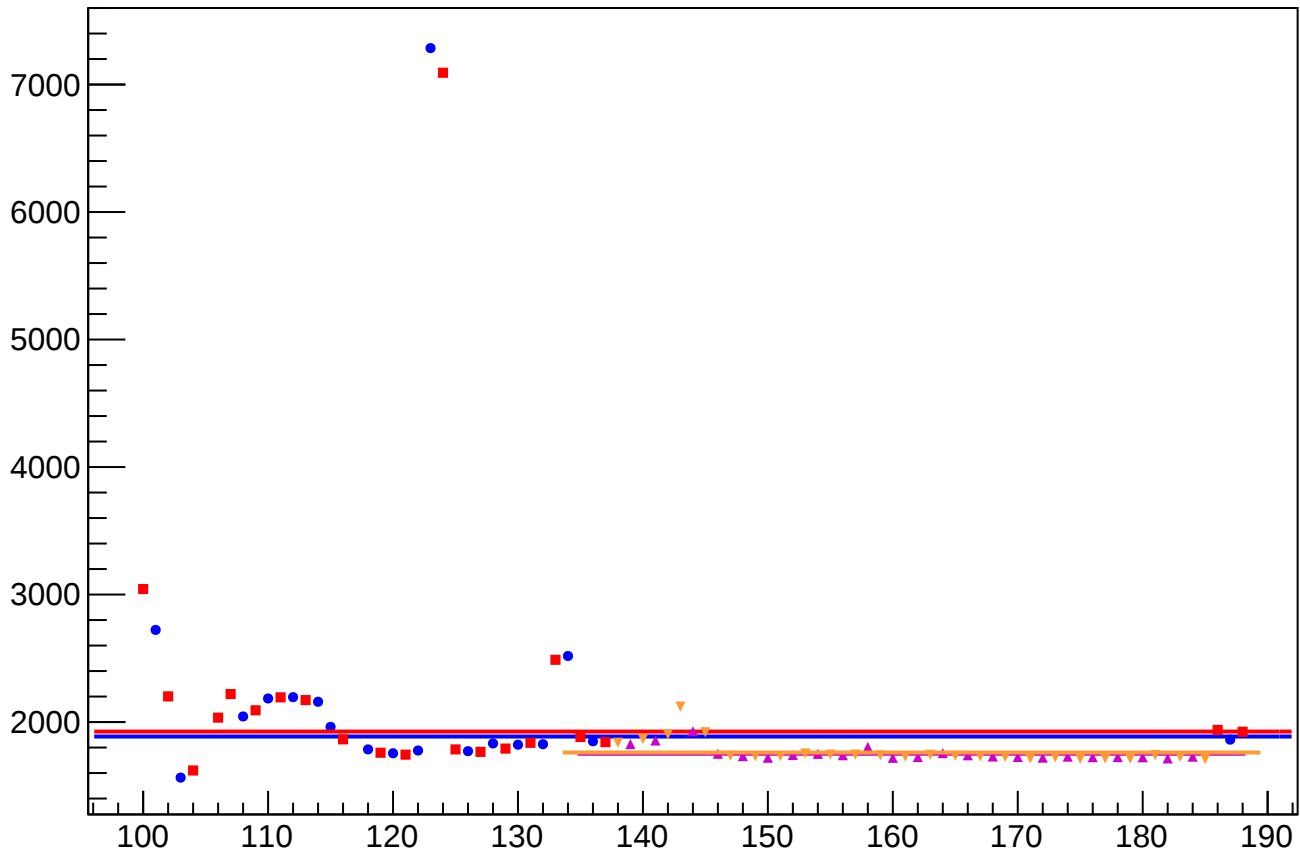
Right: -553.911 $\pm$ 498.482 χ^2 /NDF: 40.6/38

In: -838.685 $\pm$ 364.484 χ^2 /NDF:29.6/40

Out: -159.411 $\pm$ 351.600 χ^2 /NDF:59.7/45

All: -486.830 $\pm$ 253.051 χ^2 /NDF: 91.1/86

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1886.454+/-0.519 χ^2/NDF : 279216.8/17

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1925.372+/-0.480 χ^2/NDF : 349593.9/20

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

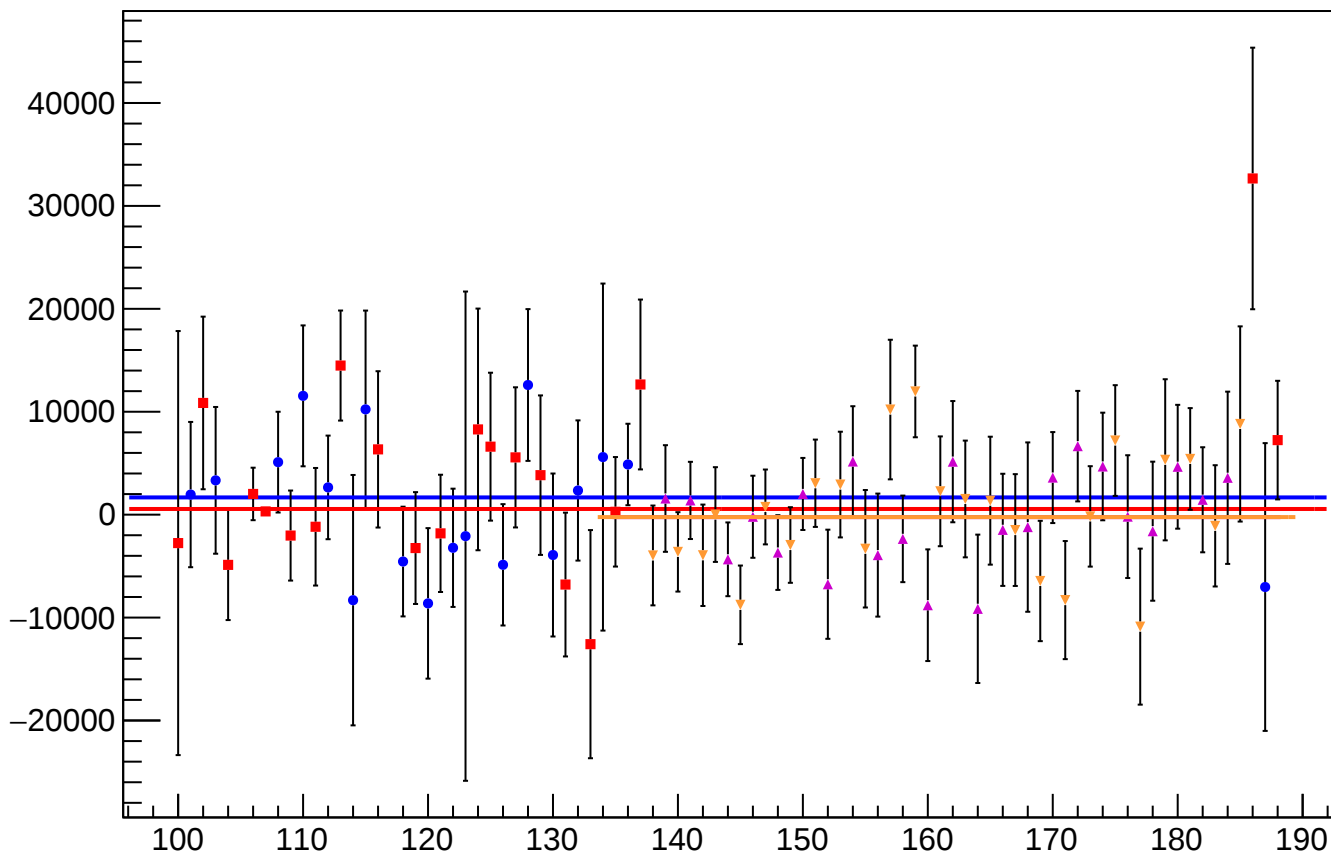
Right: 1907.450+/-0.352 χ^2/NDF : 631843.7/38

In: 1784.711+/-0.258 χ^2/NDF : 358791.0/40

Out: 1805.217+/-0.249 χ^2/NDF : 512900.1/45

All: 1795.336+/-0.179 χ^2/NDF : 874971.2/86

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1675.194+/-1575.232 χ^2/NDF : 13.3/17

Left Out: -235.806+/-1005.144 χ^2/NDF : 28.9/24

Right Out: 552.011+/-452.078 χ^2/NDF : 25.9/20

Left In: -239.224+/-1028.883 χ^2/NDF : 15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

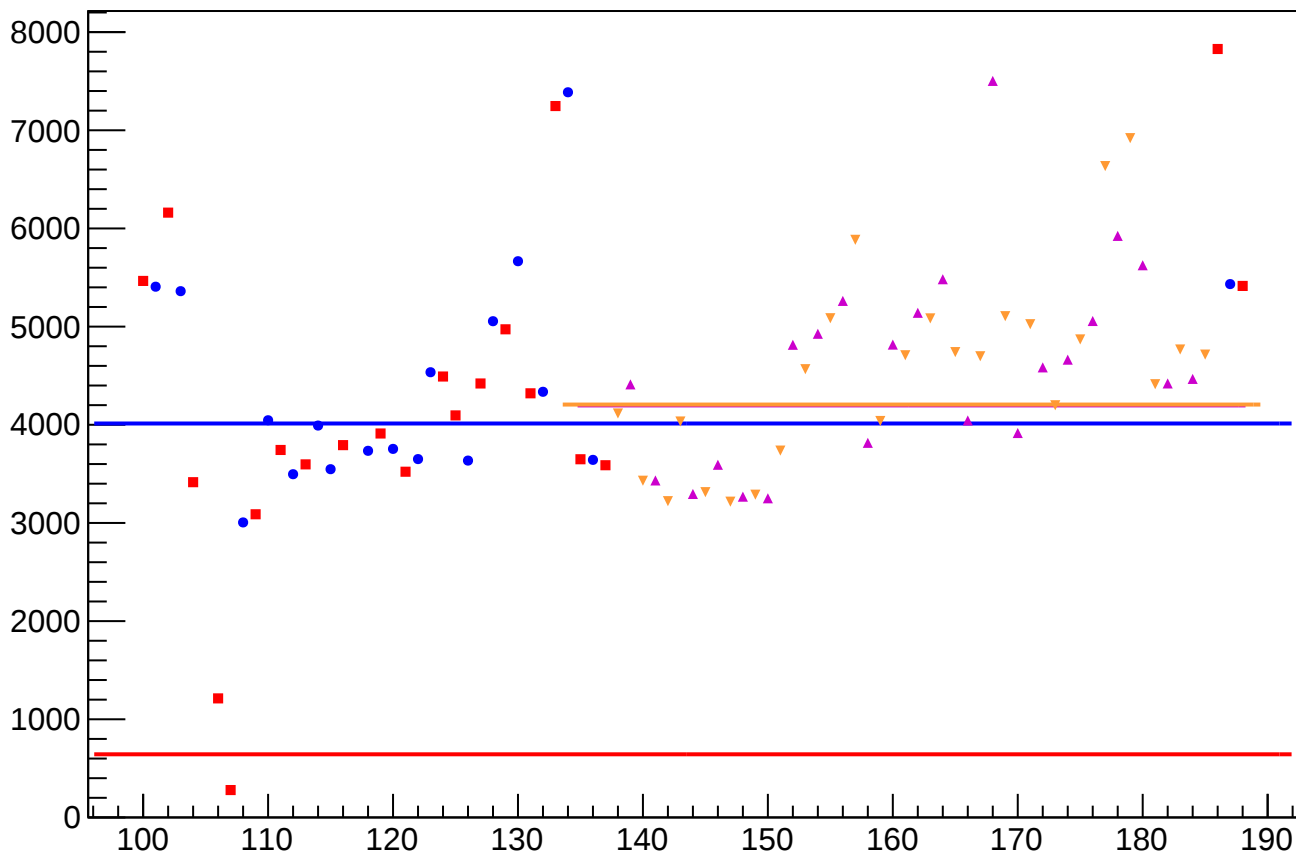
Right: 637.481+/-434.537 χ^2/NDF : 39.6/38

In: 333.271+/-861.413 χ^2/NDF : 29.6/40

Out: 419.459+/-412.296 χ^2/NDF : 55.3/45

All: 403.395+/-371.893 χ^2/NDF : 84.9/86

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4013.110+/-1.114

χ^2/NDF : 535023.6/17

Left: 4201.775+/-0.508

χ^2/NDF : 2913357.2/47

Left Out: 4206.076+/-0.711

χ^2/NDF : 1442269.3/24

Right: 899.774+/-0.307

χ^2/NDF : 21229420.5/38

Right Out: 643.347+/-0.320

χ^2/NDF : 12238369.0/20

In: 4142.196+/-0.609

χ^2/NDF : 2025197.1/40

Out: 1242.786+/-0.292

χ^2/NDF : 34579887.6/45

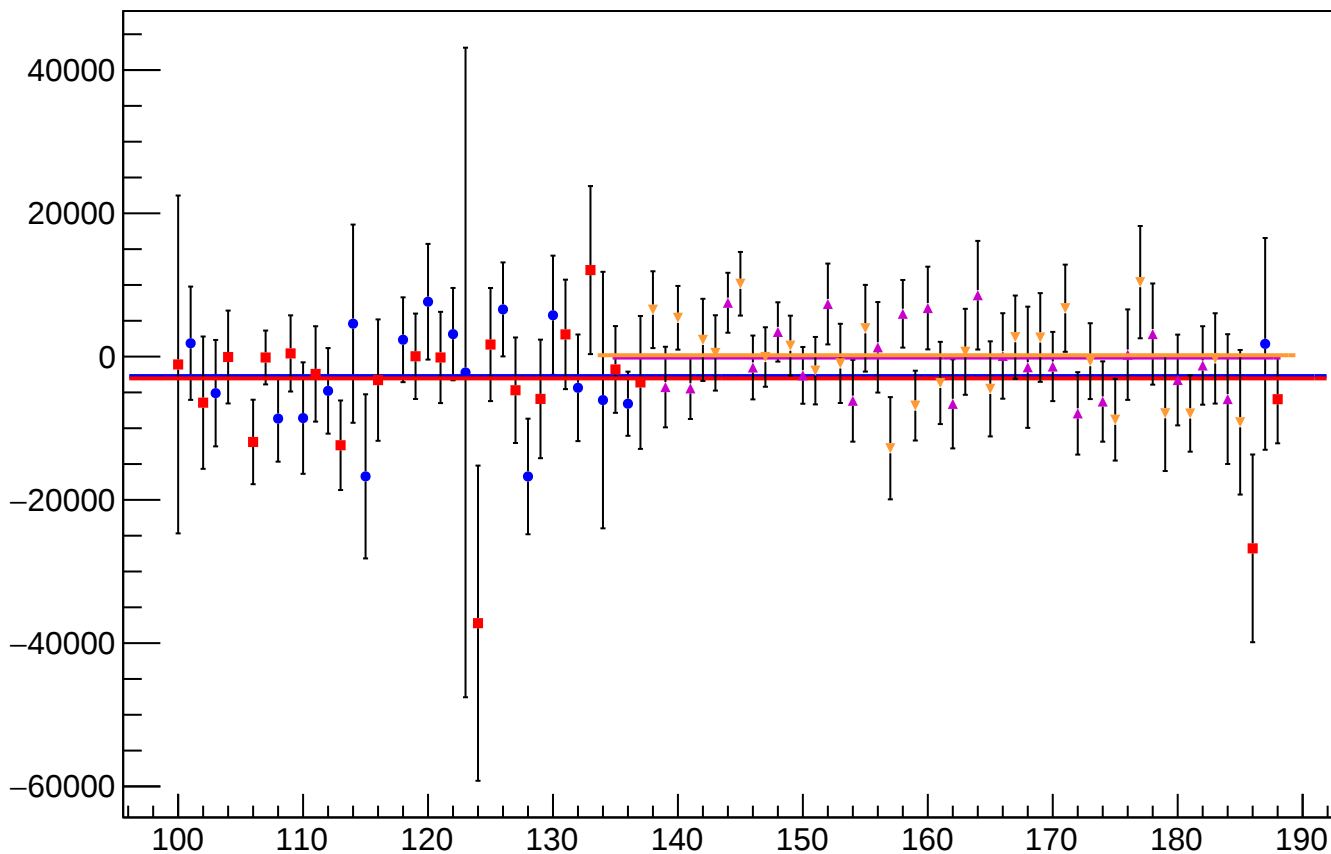
Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

All: 1783.196+/-0.263

χ^2/NDF : 55040144.9/8

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -2719.924+/-1778.341 χ^2/NDF : 14.1/17

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -3040.699+/-1518.294 χ^2/NDF : 15.2/20

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

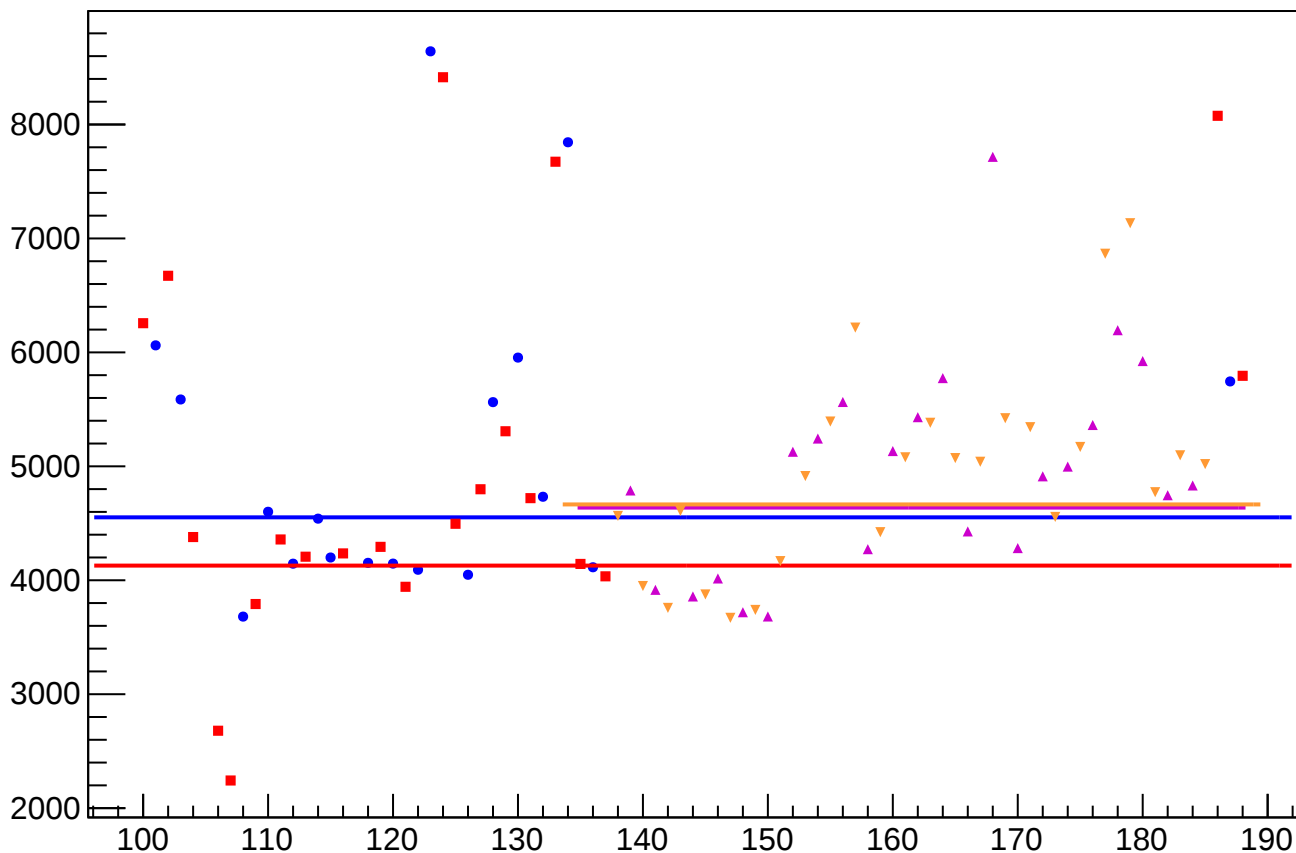
Right: -2905.459+/-1154.697 χ^2/NDF : 29.3/38

In: -879.942+/-953.536 χ^2/NDF : 34.2/40

Out: -931.320+/-894.411 χ^2/NDF : 43.1/45

All: -907.273+/-652.345 χ^2/NDF : 77.3/86

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 4552.266 $\pm$ 1.257 χ^2 /NDF: 406421.6/17

Left Out: 4665.620 $\pm$ 0.783 χ^2 /NDF:1017235.0/24

Right Out: 4128.724 $\pm$ 1.067 χ^2 /NDF: 1491847.2/20

Left In: 4637.777 $\pm$ 0.799 χ^2 /NDF:1065217.2/22

Left: 4651.983 $\pm$ 0.559 χ^2 /NDF: 2083072.1/47

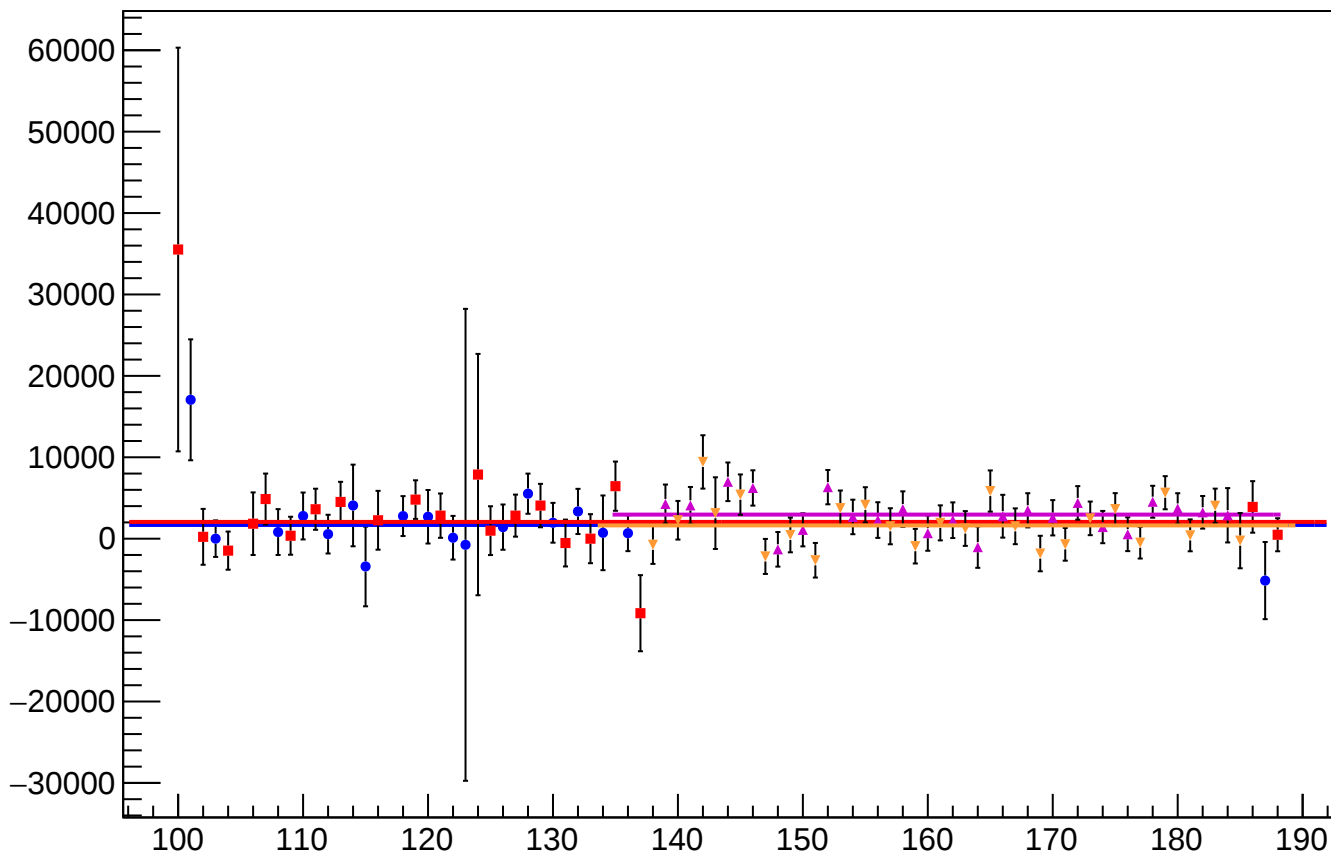
Right: 4306.062 $\pm$ 0.814 χ^2 /NDF: 1964215.4/38

In: 4613.193 $\pm$ 0.674 χ^2 /NDF:1474933.6/40

Out: 4477.850 $\pm$ 0.631 χ^2 /NDF:2673658.5/45

All: 4541.056 $\pm$ 0.461 χ^2 /NDF: 4170067.8/86

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1688.009+/-705.274 χ^2/NDF : 12.4/17

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2060.512+/-636.603 χ^2/NDF : 19.5/20

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

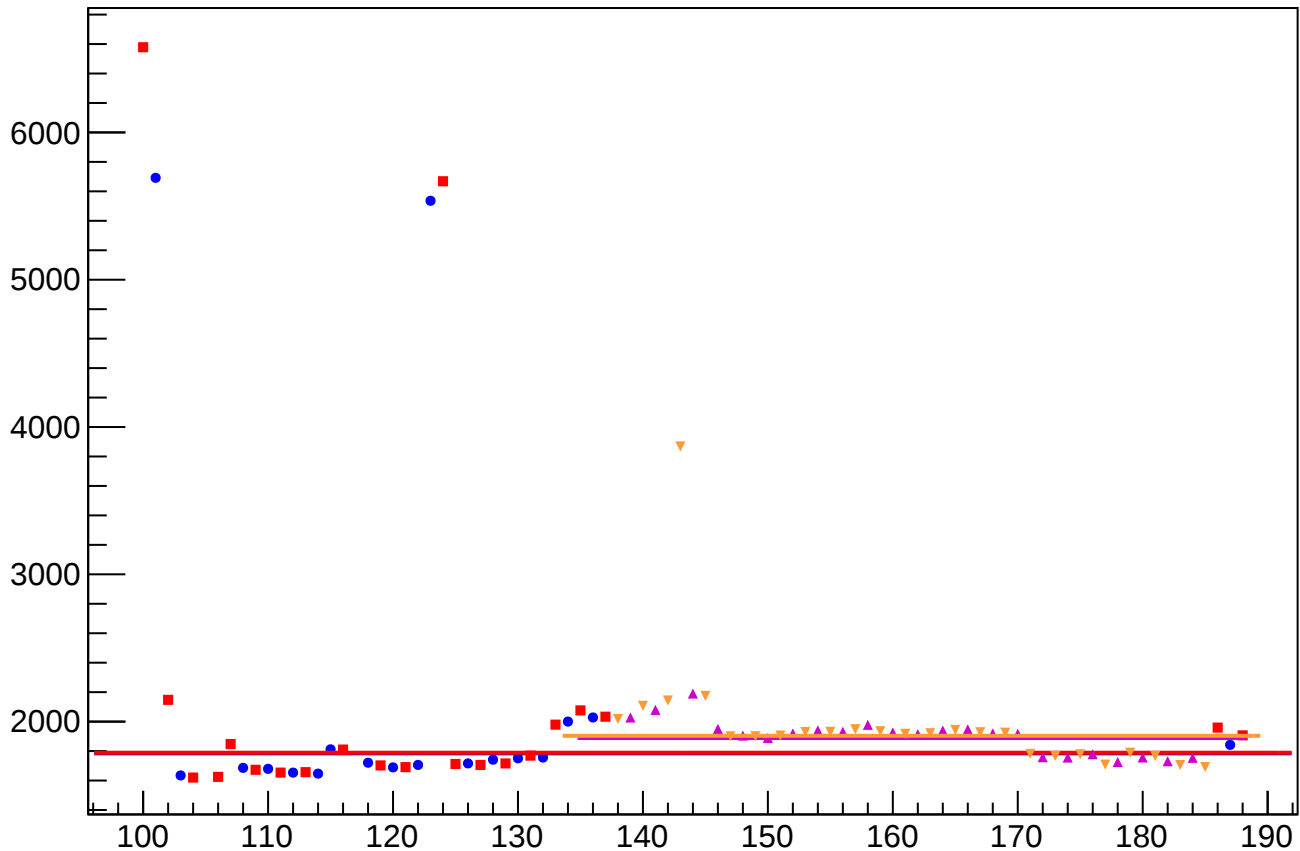
Right: 1893.274+/-472.564 χ^2/NDF : 32.1/38

In: 2586.724+/-381.559 χ^2/NDF : 35.1/40

Out: 1772.215+/-365.859 χ^2/NDF : 55.3/45

All: 2162.368+/-264.077 χ^2/NDF : 92.7/86

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1784.781+/-0.499 χ^2/NDF : 644926.7/17

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1788.818+/-0.447 χ^2/NDF : 320506.4/20

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

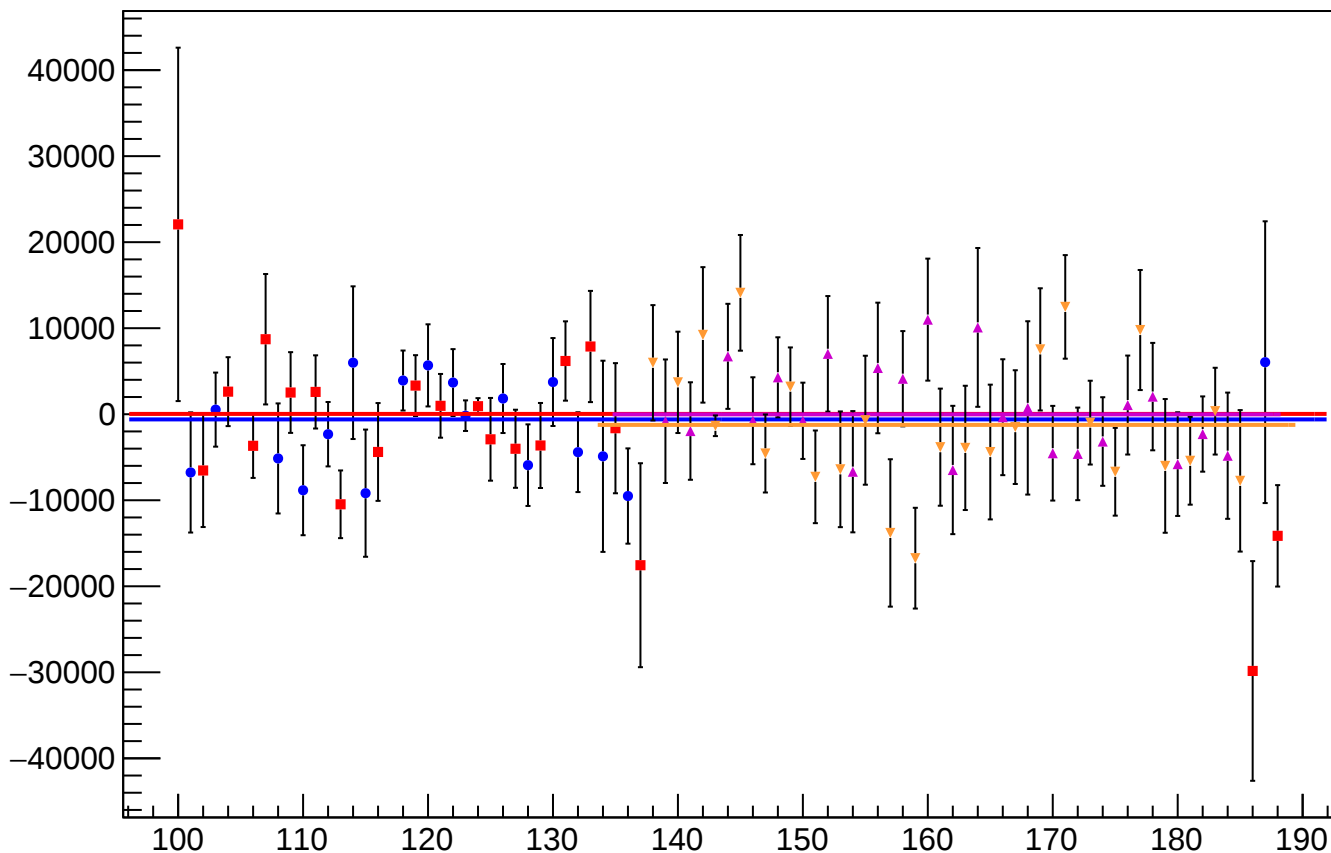
Right: 1787.017+/-0.333 χ^2/NDF : 965469.4/38

In: 1858.444+/-0.270 χ^2/NDF : 802190.7/40

Out: 1865.398+/-0.258 χ^2/NDF : 905988.4/45

All: 1862.074+/-0.187 χ^2/NDF : 1708525.8/86

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -602.906 ± 1009.065 $\chi^2/\text{NDF}: 16.5/17$

Left Out: -1239.833 ± 865.201 $\chi^2/\text{NDF}: 33.9/24$

Right Out: 36.399 ± 719.293 $\chi^2/\text{NDF}: 33.6/20$

Left In: -15.863 ± 1243.317 $\chi^2/\text{NDF}: 13.2/22$

Left: -840.501 ± 710.172 $\chi^2/\text{NDF}: 47.8/47$

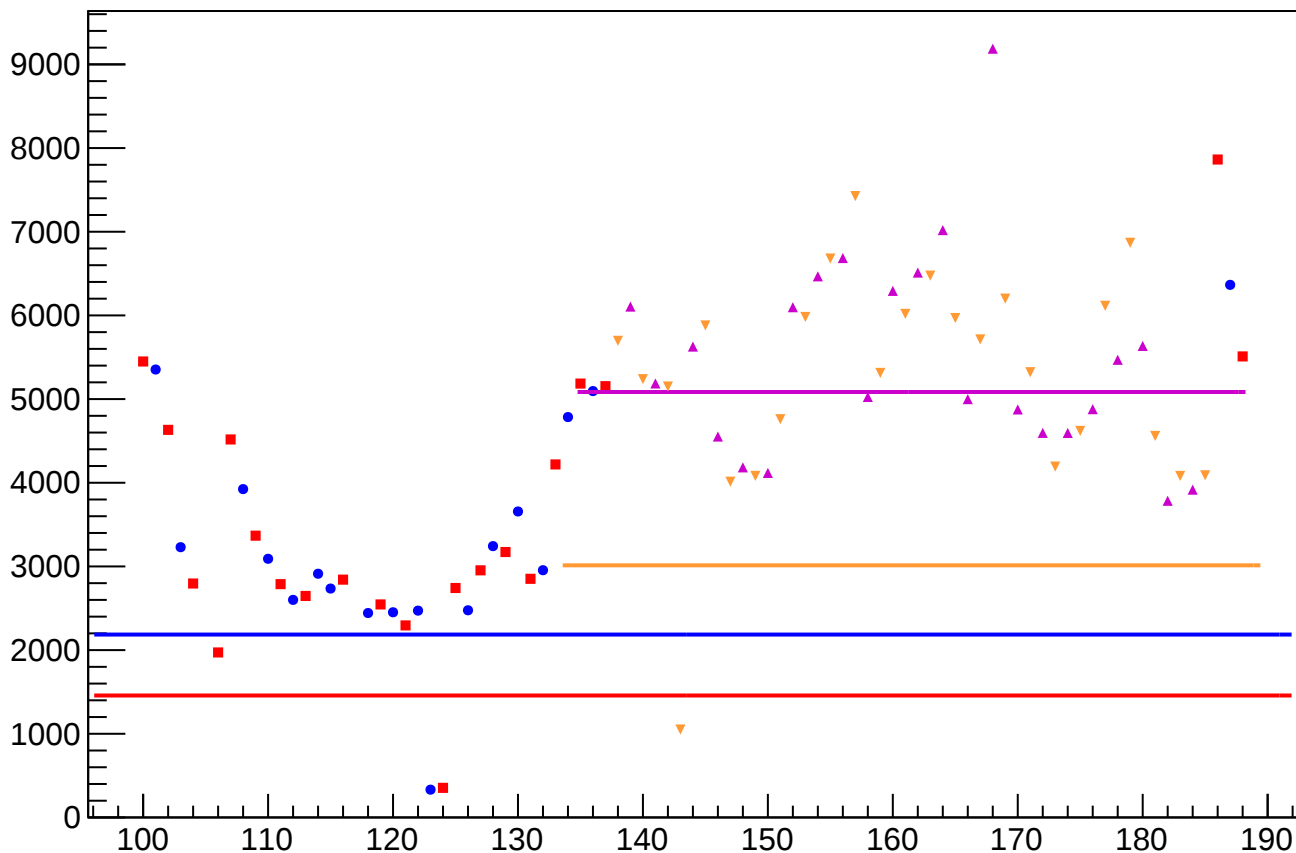
Right: -178.999 ± 585.715 $\chi^2/\text{NDF}: 50.4/38$

In: -369.785 ± 783.498 $\chi^2/\text{NDF}: 29.9/40$

Out: -485.183 ± 553.113 $\chi^2/\text{NDF}: 68.8/45$

All: -446.800 ± 451.860 $\chi^2/\text{NDF}: 98.7/86$

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2185.837 $\pm$ 0.714 χ^2/NDF : 4108811.2/17

Left Out: 3013.268 $\pm$ 0.612 χ^2/NDF : 12270753.9/24

Right Out: 1457.496 $\pm$ 0.509 χ^2/NDF : 8312544.7/20

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

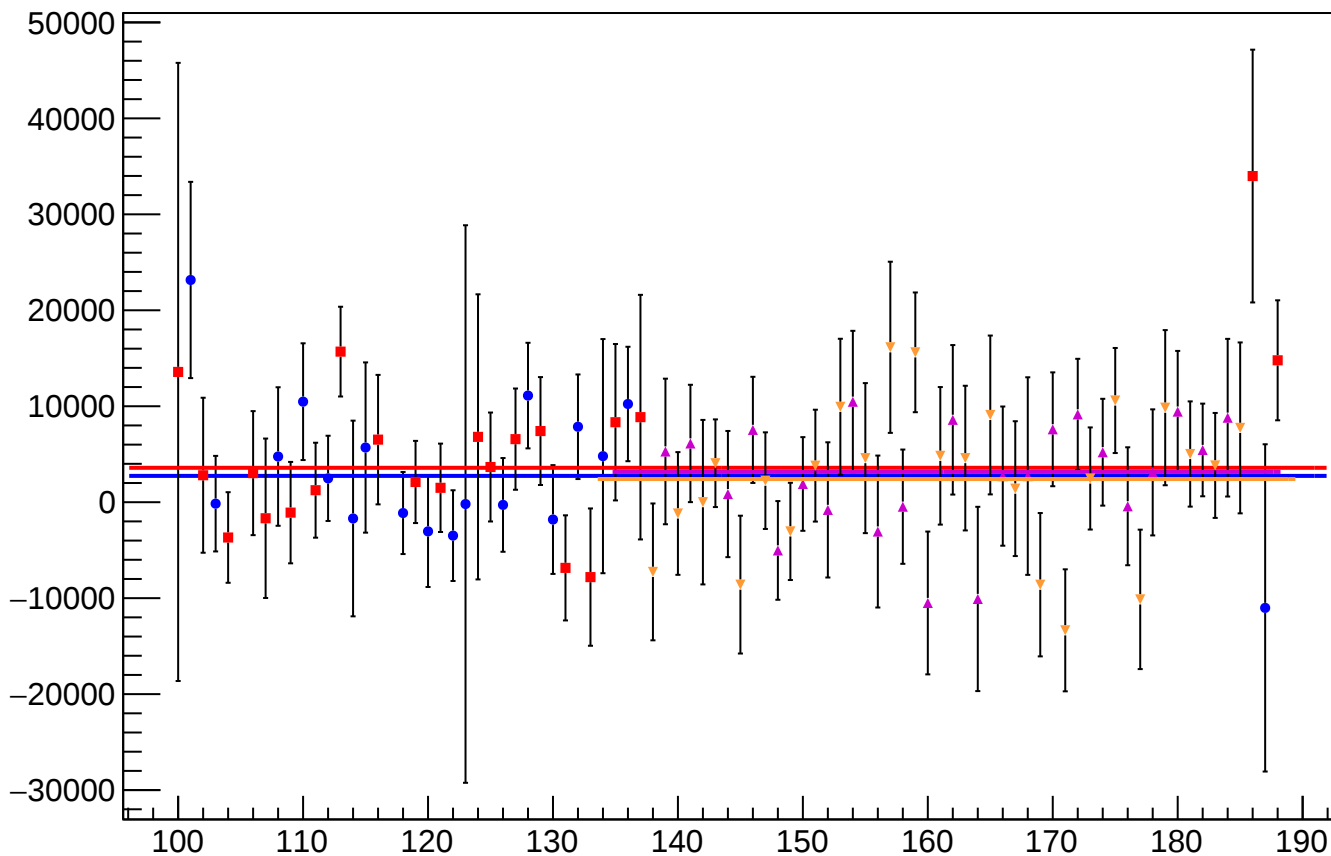
Right: 1702.893 $\pm$ 0.414 χ^2/NDF : 13112267.9/38

In: 3336.986 $\pm$ 0.554 χ^2/NDF : 11966939.9/40

Out: 2093.323 $\pm$ 0.391 χ^2/NDF : 24407174.9/45

All: 2506.975 $\pm$ 0.320 χ^2/NDF : 39737219.6/86

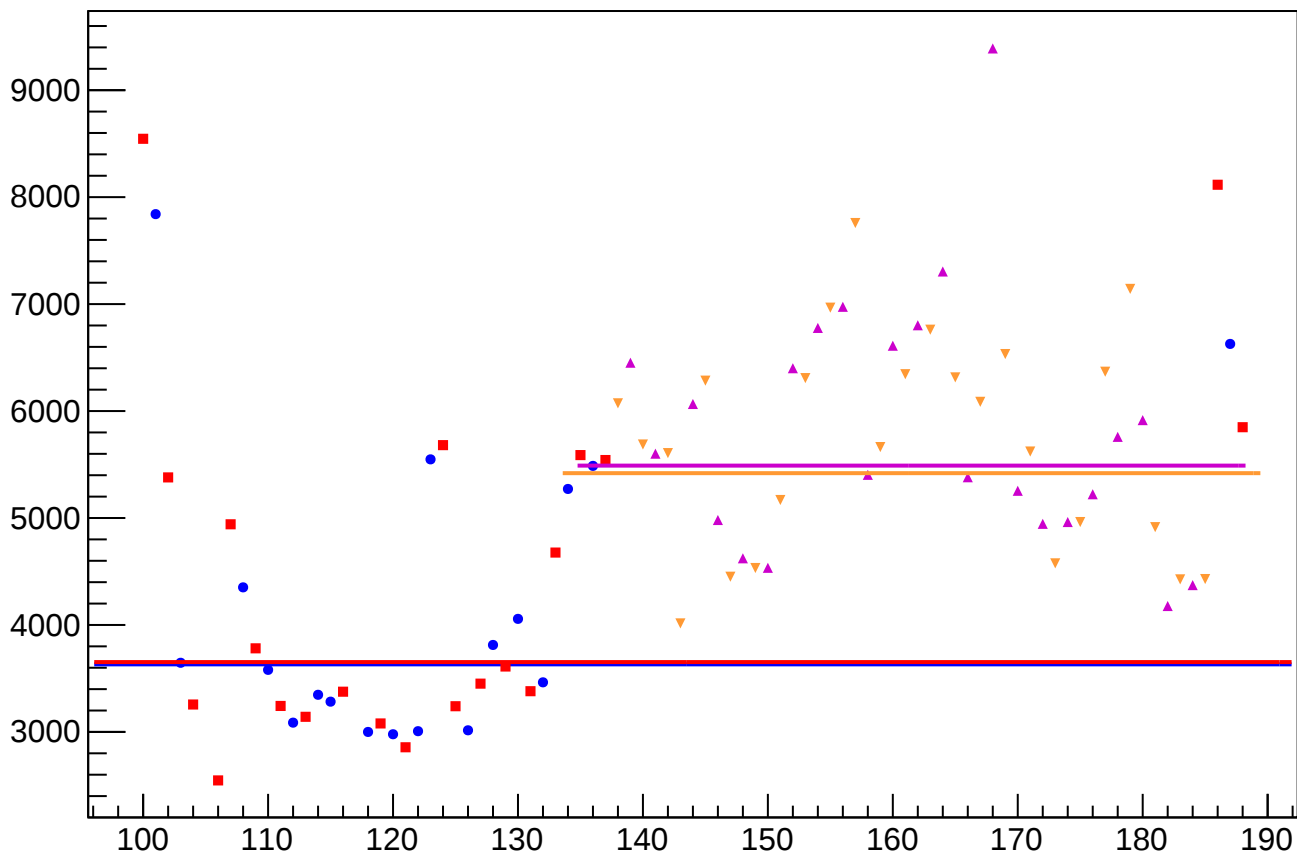
asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2742.800+/-1446.940 χ^2/NDF : 16.4/17
 Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24
 Right Out: 3585.694+/-1343.263 χ^2/NDF : 27.1/20
 Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47
 Right: 3195.523+/-984.445 χ^2/NDF : 43.7/38
 In: 2964.258+/-982.121 χ^2/NDF : 31.9/40
 Out: 2976.234+/-929.106 χ^2/NDF : 57.4/45
 All: 2970.578+/-674.941 χ^2/NDF : 89.3/86

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 3631.736+/-1.023 χ^2/NDF : 845372.8/17

Left Out: 5419.305+/-0.910 χ^2/NDF : 1109972.1/24

Right Out: 3652.992+/-0.937 χ^2/NDF : 1162796.6/20

Left In: 5489.885+/-0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

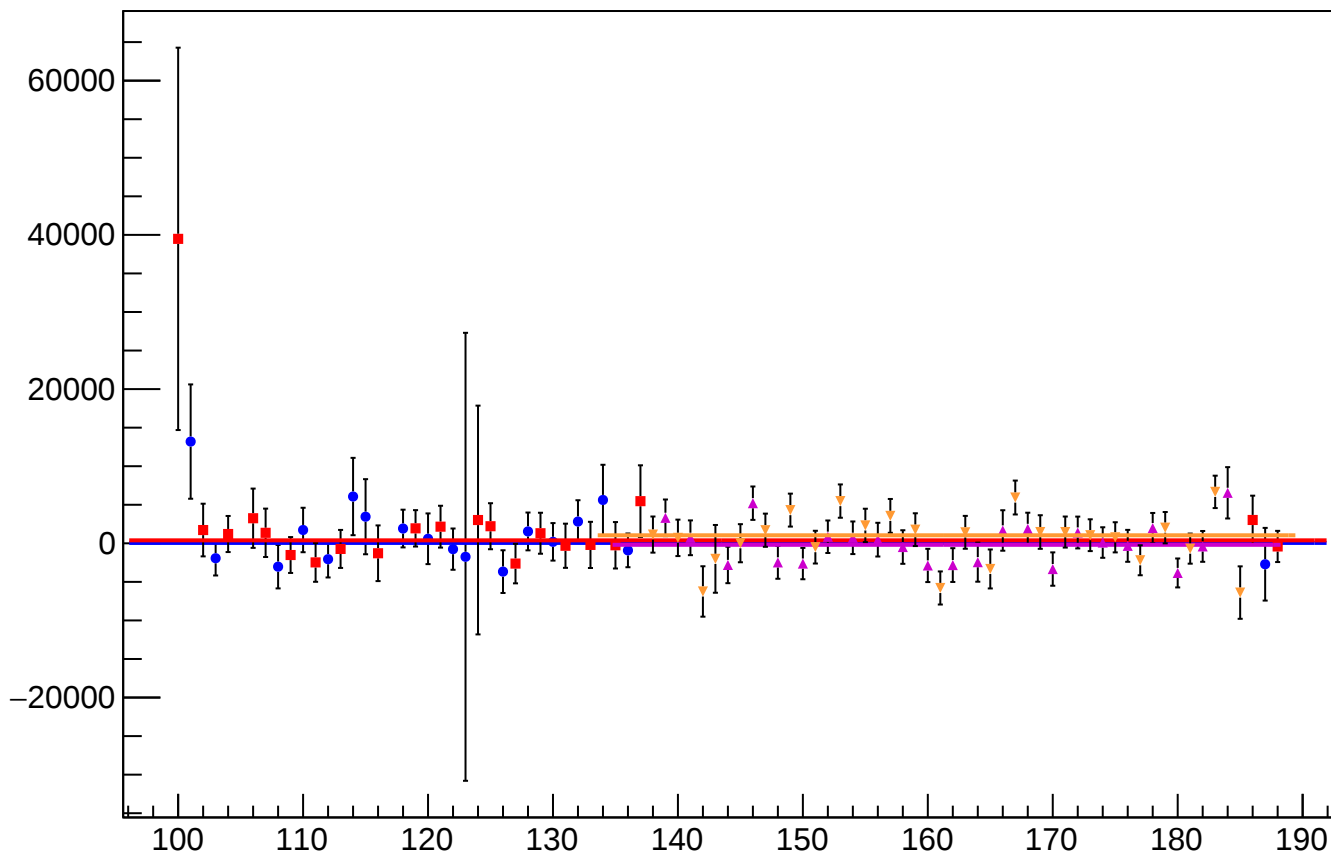
Right: 3643.293+/-0.691 χ^2/NDF : 2008404.1/38

In: 4633.810+/-0.694 χ^2/NDF : 3688473.4/40

Out: 4562.551+/-0.653 χ^2/NDF : 4101485.4/45

All: 4595.978+/-0.476 χ^2/NDF : 7795548.6/86

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 52.874+/-703.125 χ^2/NDF : 14.1/17

Left Out: 1041.262+/-446.249 χ^2/NDF : 48.6/24

Right Out: 386.809+/-634.442 χ^2/NDF : 10.8/20

Left In: -191.966+/-453.055 χ^2/NDF : 30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

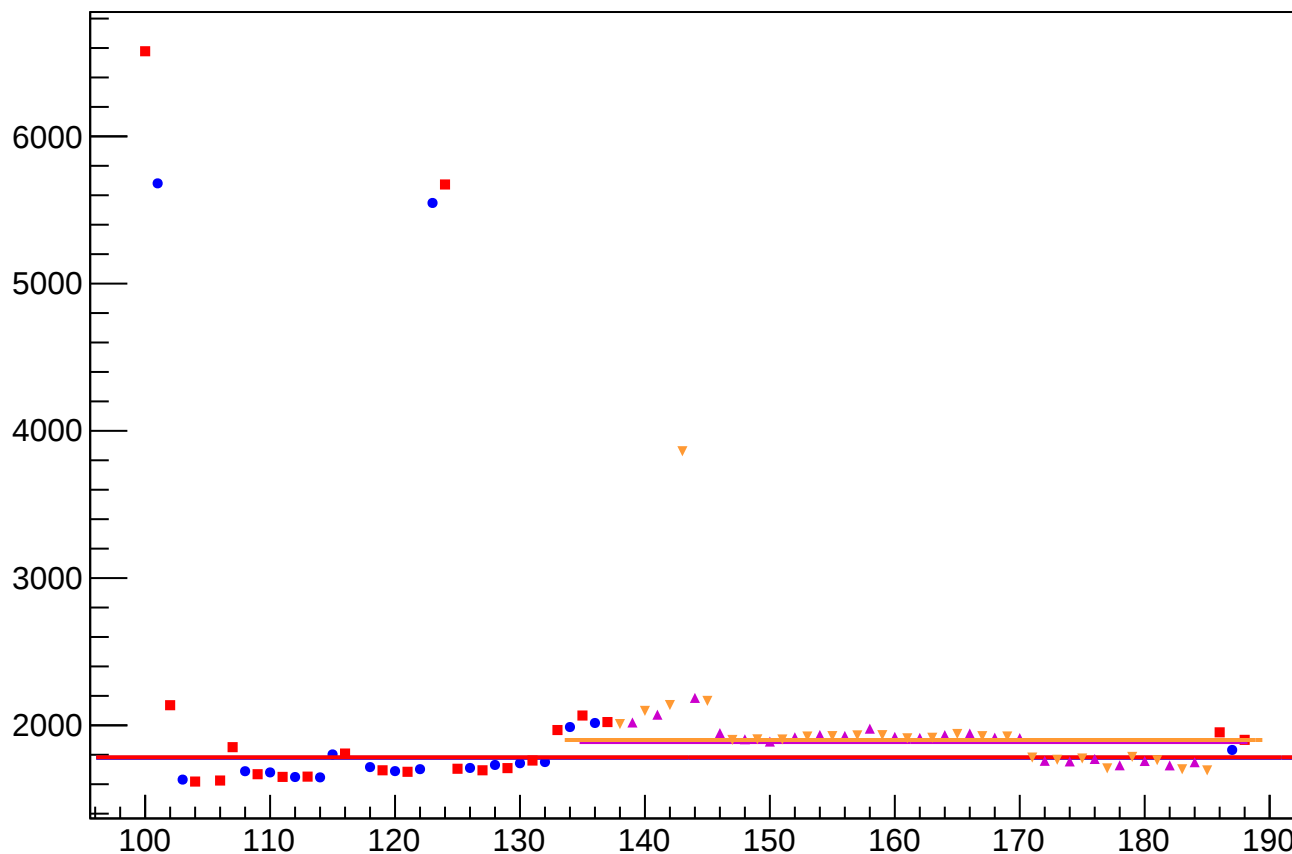
Right: 236.944+/-471.034 χ^2/NDF : 25.0/38

In: -120.136+/-380.842 χ^2/NDF : 44.2/40

Out: 824.648+/-365.002 χ^2/NDF : 60.0/45

All: 372.312+/-263.517 χ^2/NDF : 107.4/86

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1779.417+/-0.497 χ^2/NDF : 643245.1/17

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1782.859+/-0.446 χ^2/NDF : 319949.4/20

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

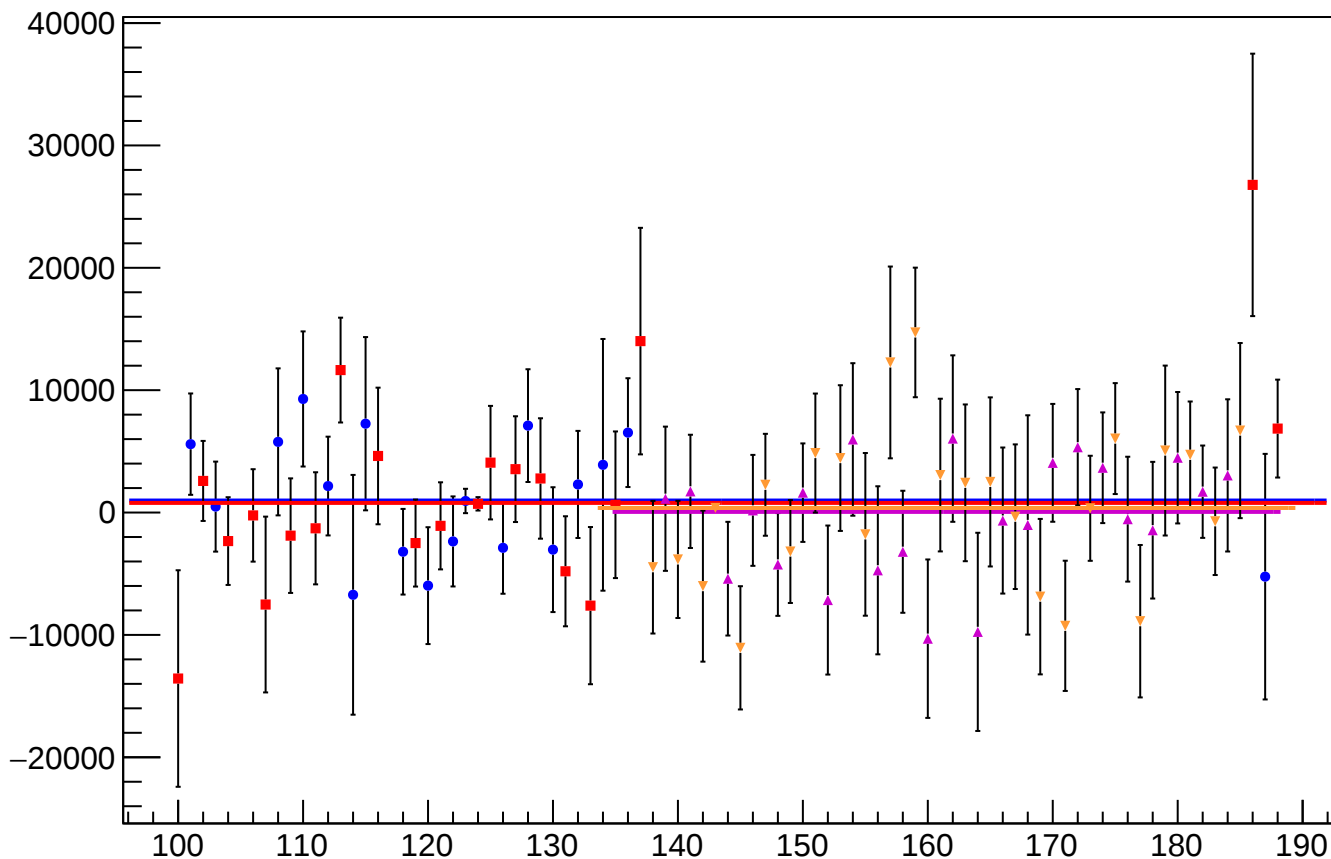
Right: 1781.324+/-0.332 χ^2/NDF : 963221.1/38

In: 1854.998+/-0.269 χ^2/NDF : 799470.0/40

Out: 1861.117+/-0.258 χ^2/NDF : 904049.0/45

All: 1858.193+/-0.186 χ^2/NDF : 1703788.8/86

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 980.802 $\pm$ 751.209 χ^2 /NDF: 15.6/17

Left Out: 373.277 $\pm$ 382.071 χ^2 /NDF:30.8/24

Right Out: 788.063 $\pm$ 484.183 χ^2 /NDF: 28.2/20

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

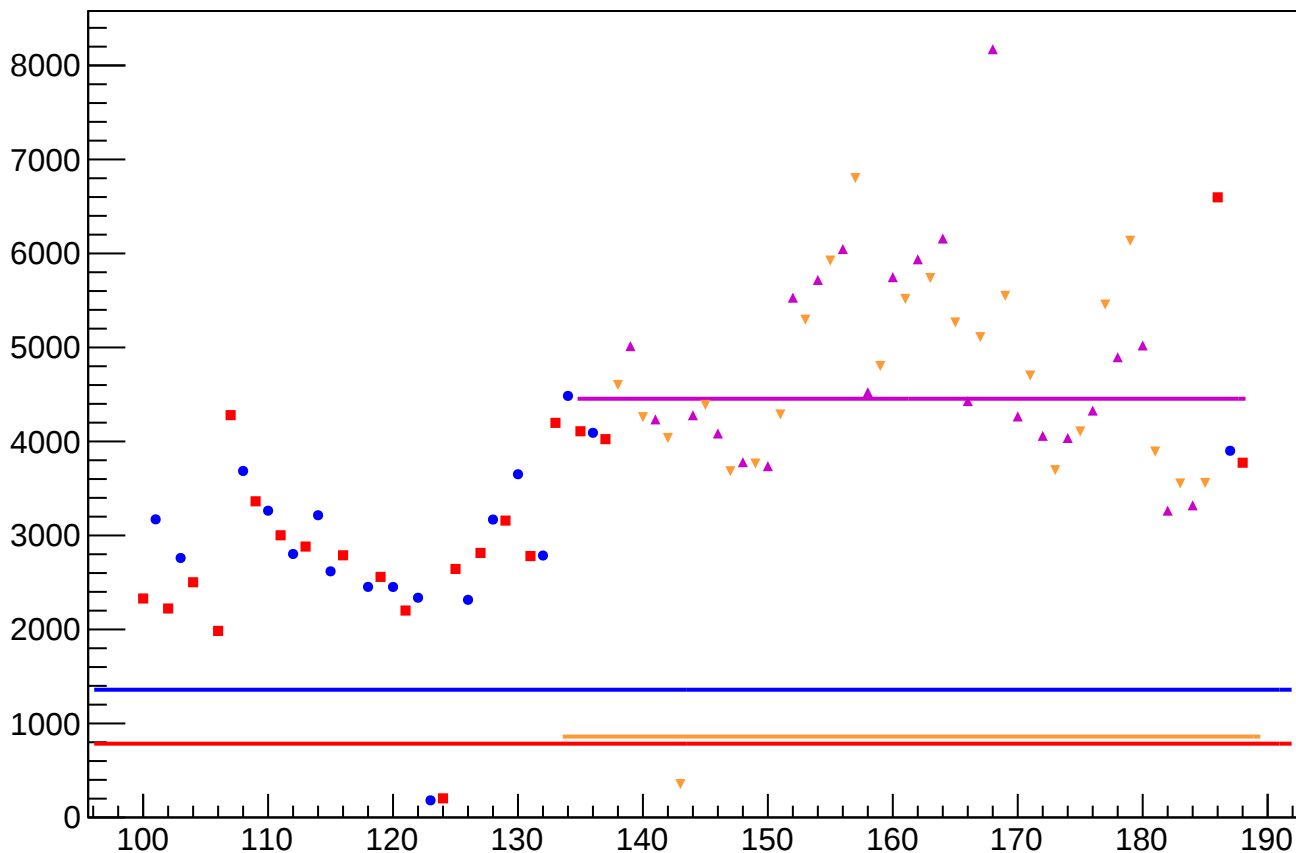
Right: 844.632 $\pm$ 406.973 χ^2 /NDF: 43.8/38

In: 682.020 $\pm$ 618.521 χ^2 /NDF:30.6/40

Out: 532.446 $\pm$ 299.935 χ^2 /NDF:59.5/45

All: 560.922 $\pm$ 269.878 χ^2 /NDF: 90.2/86

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1358.802 $\pm$ 0.531 χ^2 /NDF: 6964588.5/17

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 785.005 $\pm$ 0.342 χ^2 /NDF: 11211369.4/20

Left In: 4454.402 $\pm$ 0.771 χ^2 /NDF: 1349758.1/22

Left: 1253.867 $\pm$ 0.255 χ^2 /NDF: 47056303.3/47

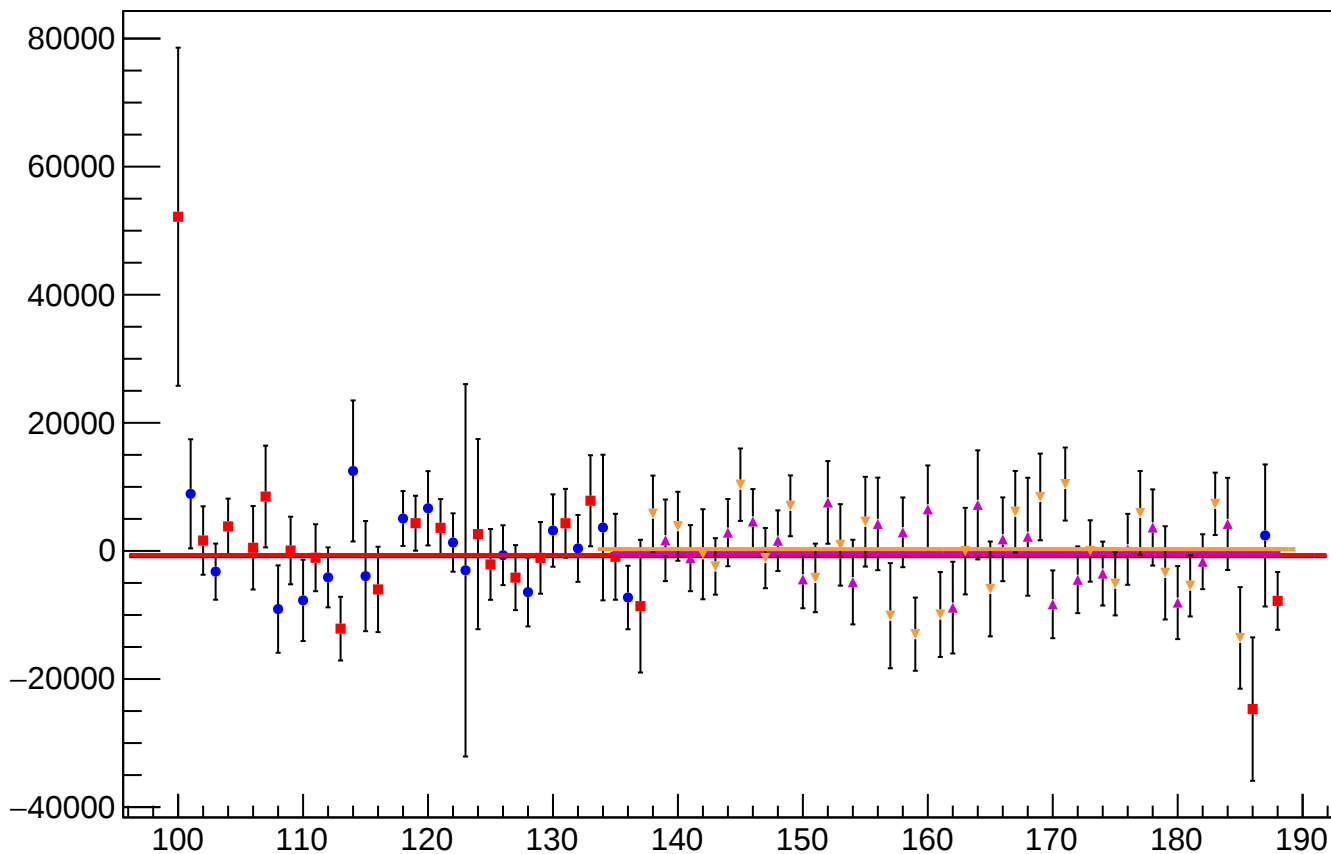
Right: 953.415 $\pm$ 0.288 χ^2 /NDF: 19000354.3/38

In: 2355.791 $\pm$ 0.437 χ^2 /NDF: 19252479.1/40

Out: 831.558 $\pm$ 0.212 χ^2 /NDF: 37581476.3/45

All: 1121.744 $\pm$ 0.191 χ^2 /NDF: 66667364.4/8

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -822.452 $\pm$ 1389.076 χ^2/NDF : 13.7/17

Left Out: 288.508 $\pm$ 1155.419 χ^2/NDF : 32.4/24

Right Out: -638.772 $\pm$ 1270.365 χ^2/NDF : 25.5/20

Left In: -332.488 $\pm$ 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 $\pm$ 830.984 χ^2/NDF : 47.2/47

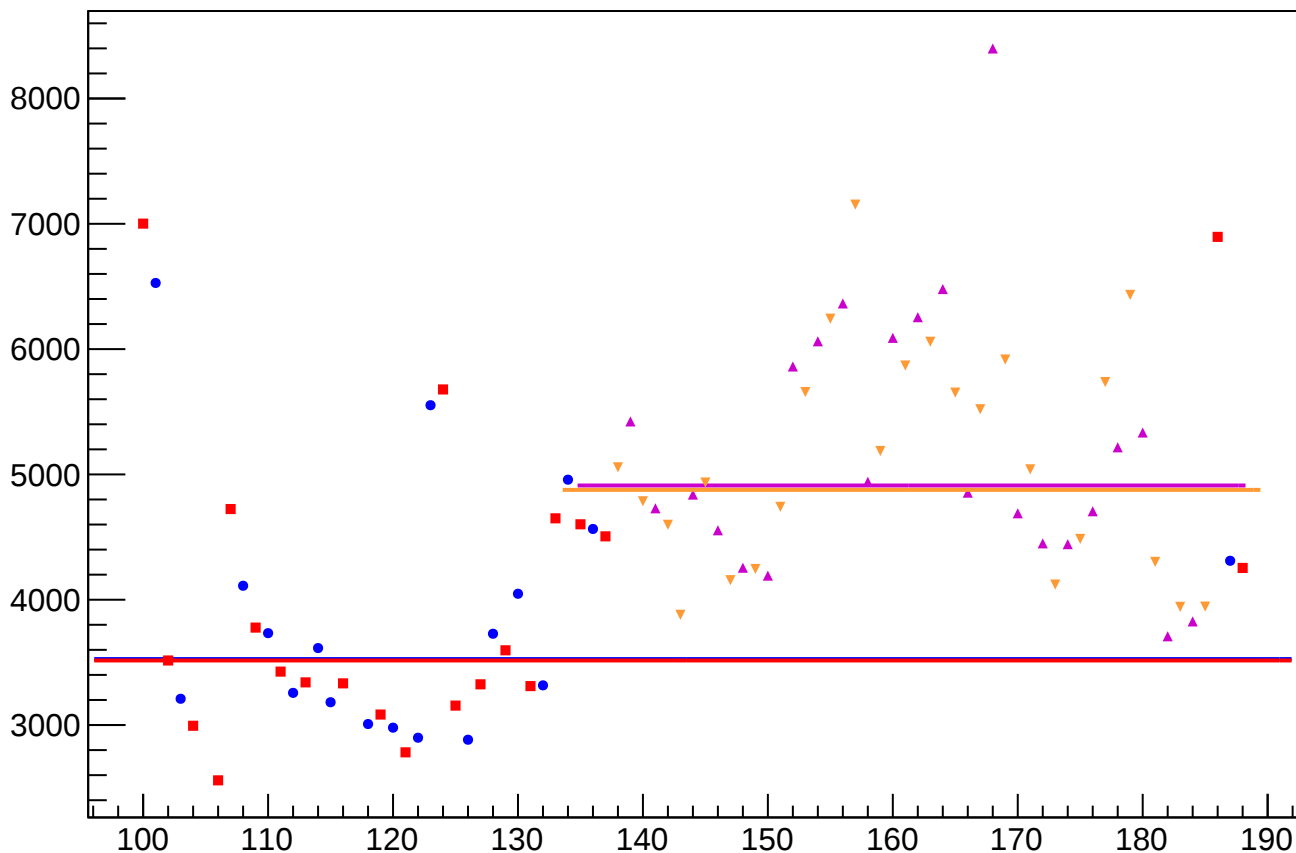
Right: -722.429 $\pm$ 937.448 χ^2/NDF : 39.2/38

In: -541.081 $\pm$ 906.344 χ^2/NDF : 28.4/40

Out: -131.291 $\pm$ 854.759 χ^2/NDF : 58.2/45

All: -324.193 $\pm$ 621.843 χ^2/NDF : 86.7/86

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3526.195+/-0.982 χ^2/NDF : 570949.7/17

Left Out: 4876.564+/-0.817 χ^2/NDF : 972528.1/24

Right Out: 3515.345+/-0.888 χ^2/NDF : 678227.2/20

Left In: 4911.546+/-0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451+/-0.588 χ^2/NDF : 2016577.8/47

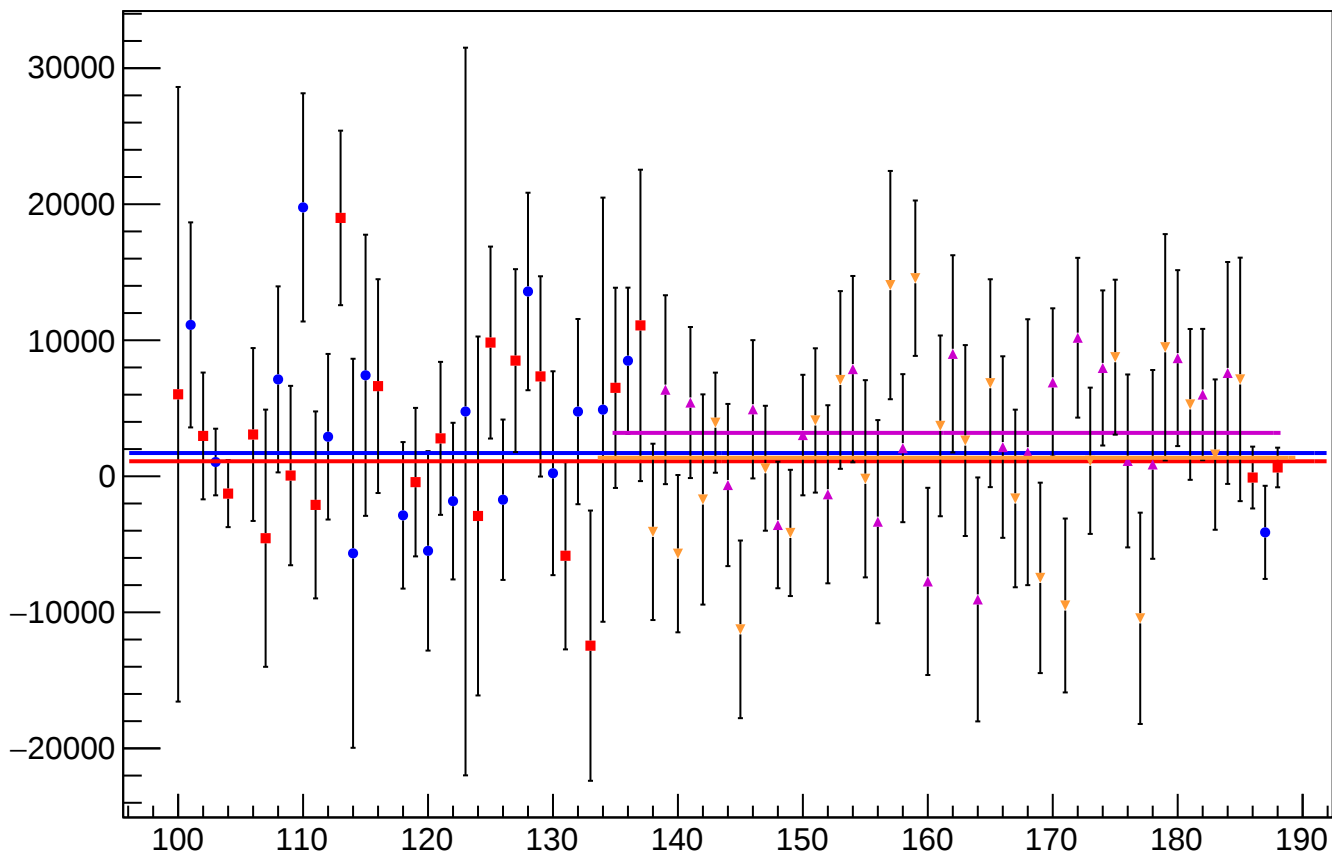
Right: 3520.223+/-0.659 χ^2/NDF : 1249244.0/38

In: 4321.757+/-0.641 χ^2/NDF : 2756509.9/40

Out: 4252.273+/-0.601 χ^2/NDF : 2923864.5/45

All: 4284.794+/-0.438 χ^2/NDF : 5686627.4/86

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1710.231+/-1339.827 χ^2/NDF : 17.4/17

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1104.407+/-918.035 χ^2/NDF : 18.4/20

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

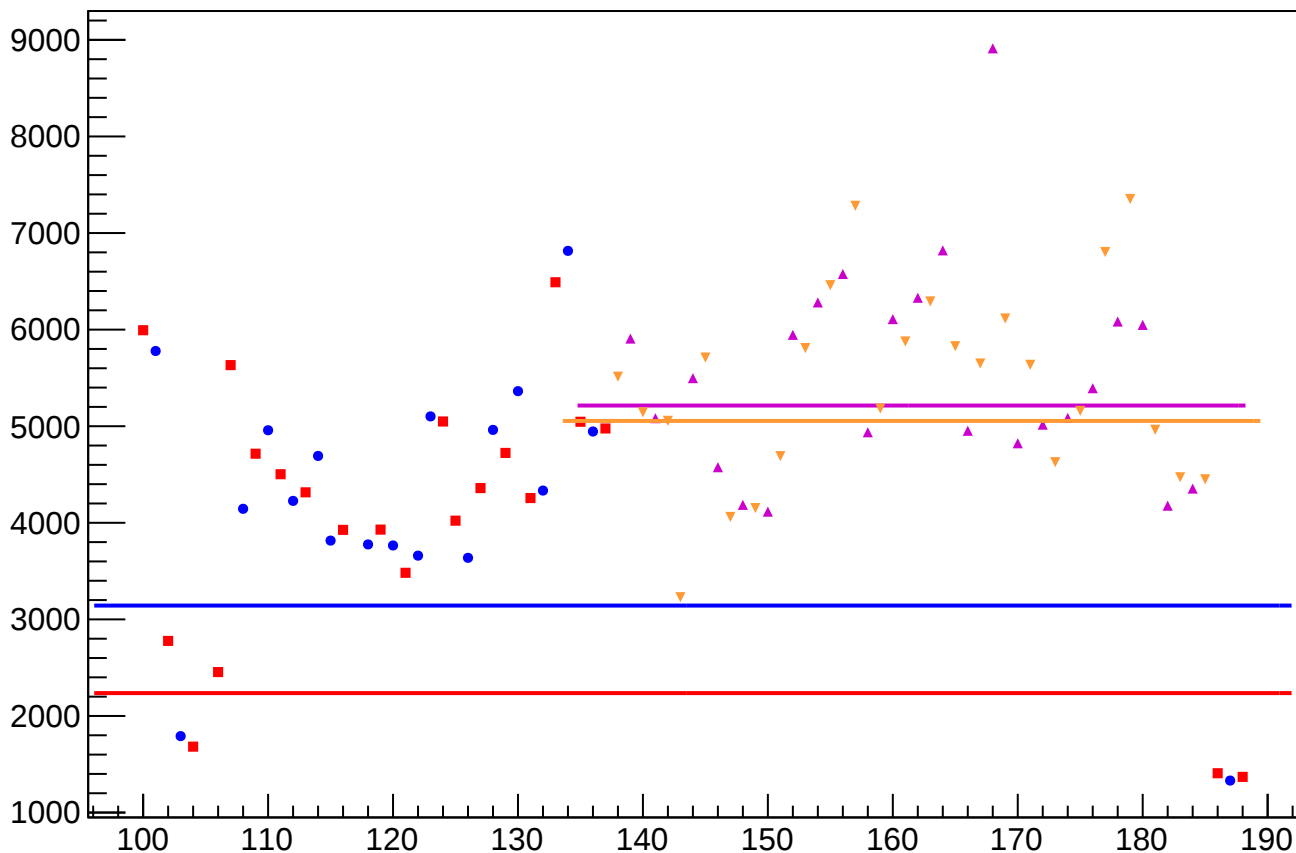
Right: 1297.961+/-757.316 χ^2/NDF : 35.9/38

In: 2490.278+/-921.731 χ^2/NDF : 32.0/40

Out: 1200.015+/-730.534 χ^2/NDF : 46.4/45

All: 1697.812+/-572.521 χ^2/NDF : 79.6/86

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3143.005+/-0.947 χ^2/NDF : 2427284.1/17

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 2236.830+/-0.647 χ^2/NDF : 4104587.4/20

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

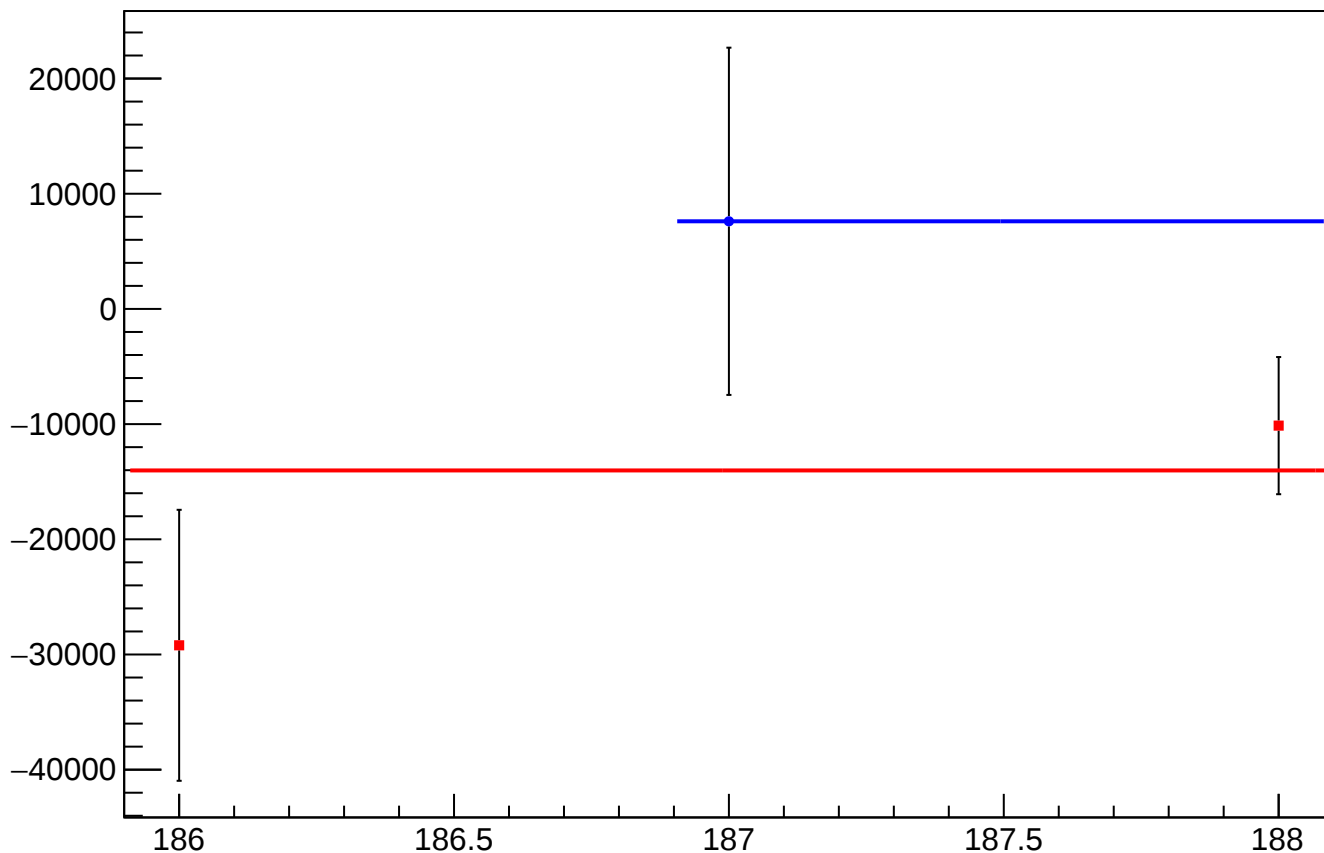
Right: 2524.748+/-0.534 χ^2/NDF : 7156082.8/38

In: 4233.898+/-0.652 χ^2/NDF : 5997095.7/40

Out: 3265.016+/-0.515 χ^2/NDF : 12473585.9/45

All: 3637.640+/-0.404 χ^2/NDF : 19830668.2/86

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 7607.549+/-15073.069 χ^2 /NDF: 0.0/0

Left Out: 0.000+/-0.000 χ^2 /NDF:0.0/0

Right Out: -14021.280+/-5312.568 χ^2 /NDF: 2.1/1

Left In: 0.000+/-0.000 χ^2 /NDF:0.0/0

Left: 0.000+/-0.000 χ^2 /NDF: 0.0/0

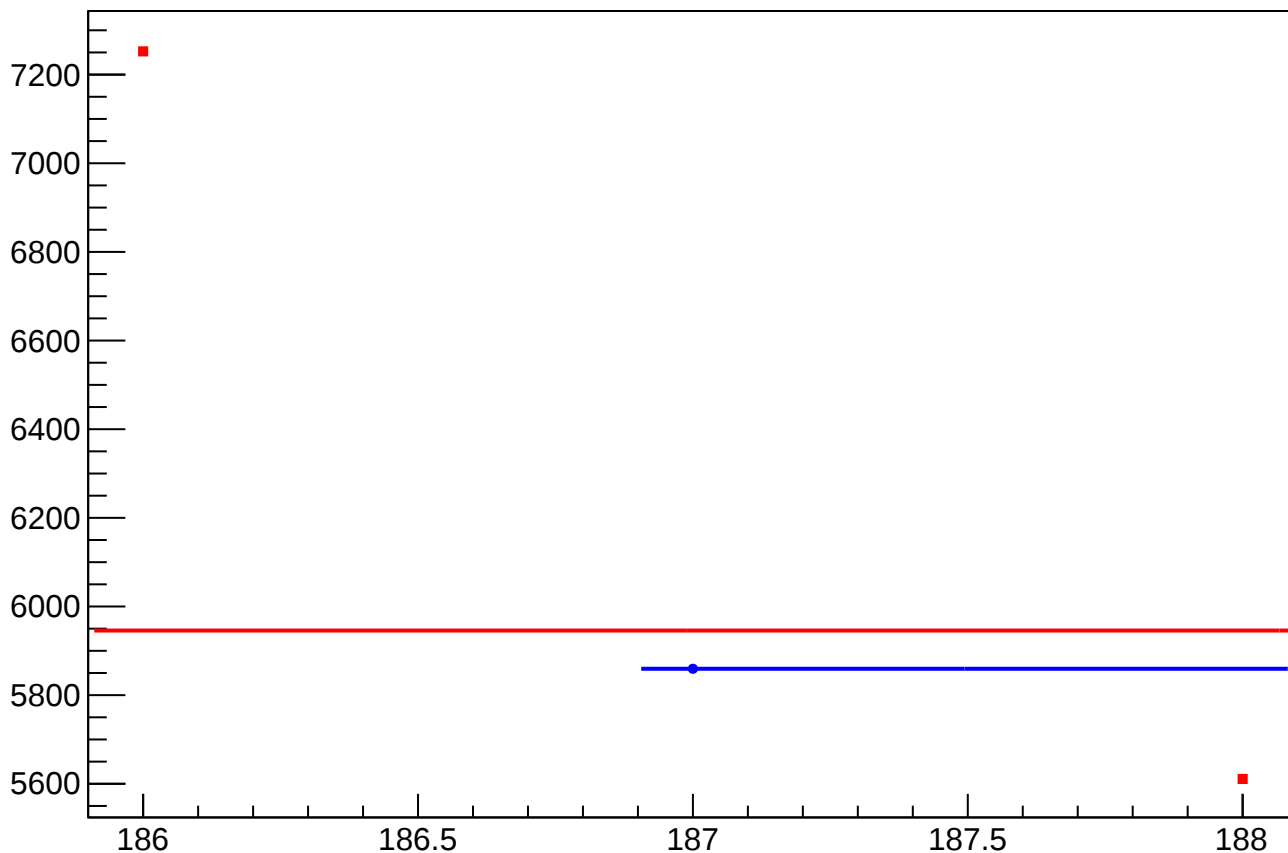
Right: -11631.346+/-5010.466 χ^2 /NDF: 3.9/2

In: 7607.549+/-15073.069 χ^2 /NDF:0.0/0

Out: 0.000+/-0.000 χ^2 /NDF:0.0/0

All: -11631.346+/-5010.466 χ^2 /NDF: 3.9/2

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5859.521+/-10.658 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5945.802+/-3.757 χ^2/NDF : 31004.1/1

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

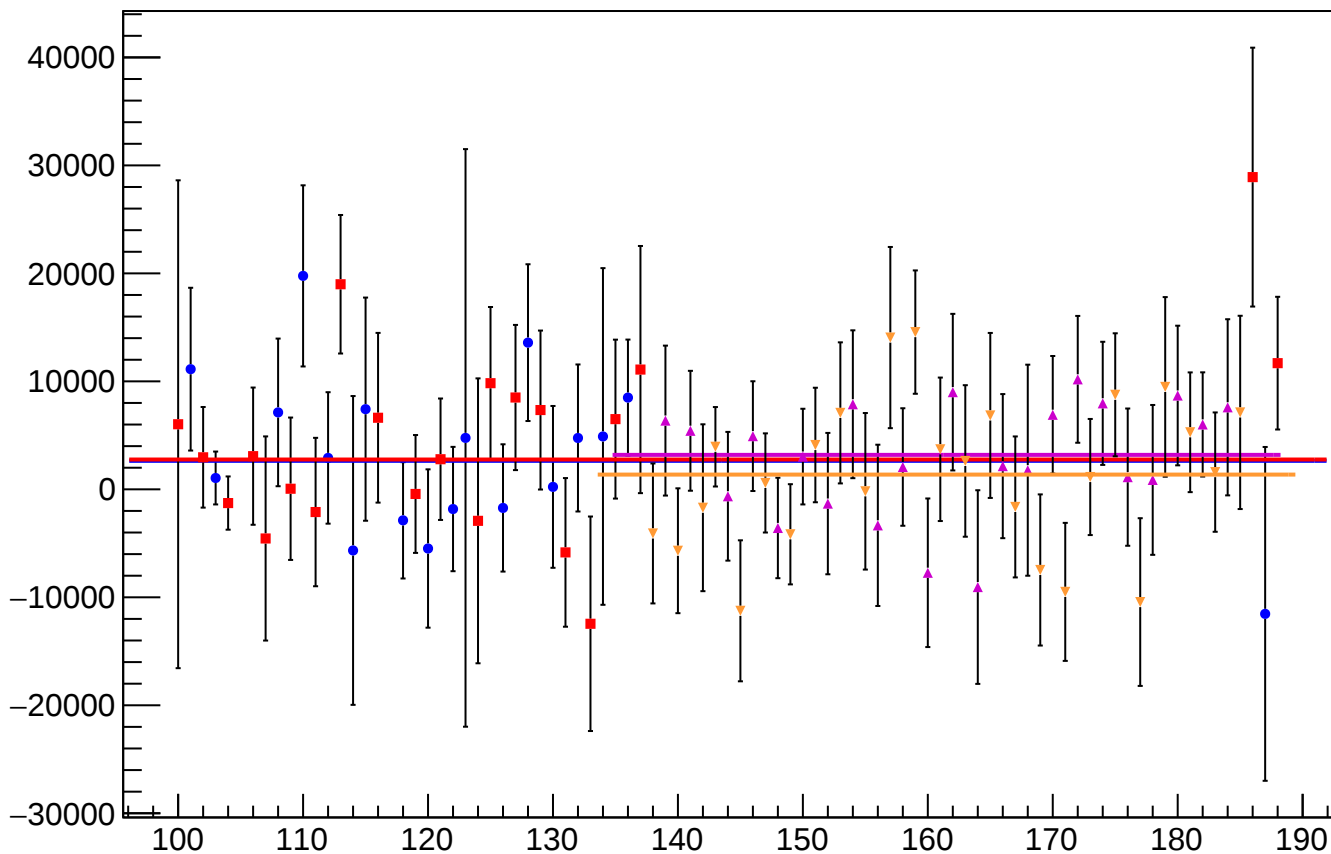
Right: 5936.269+/-3.543 χ^2/NDF : 31062.4/2

In: 5859.521+/-10.658 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5936.269+/-3.543 χ^2/NDF : 31062.4/2

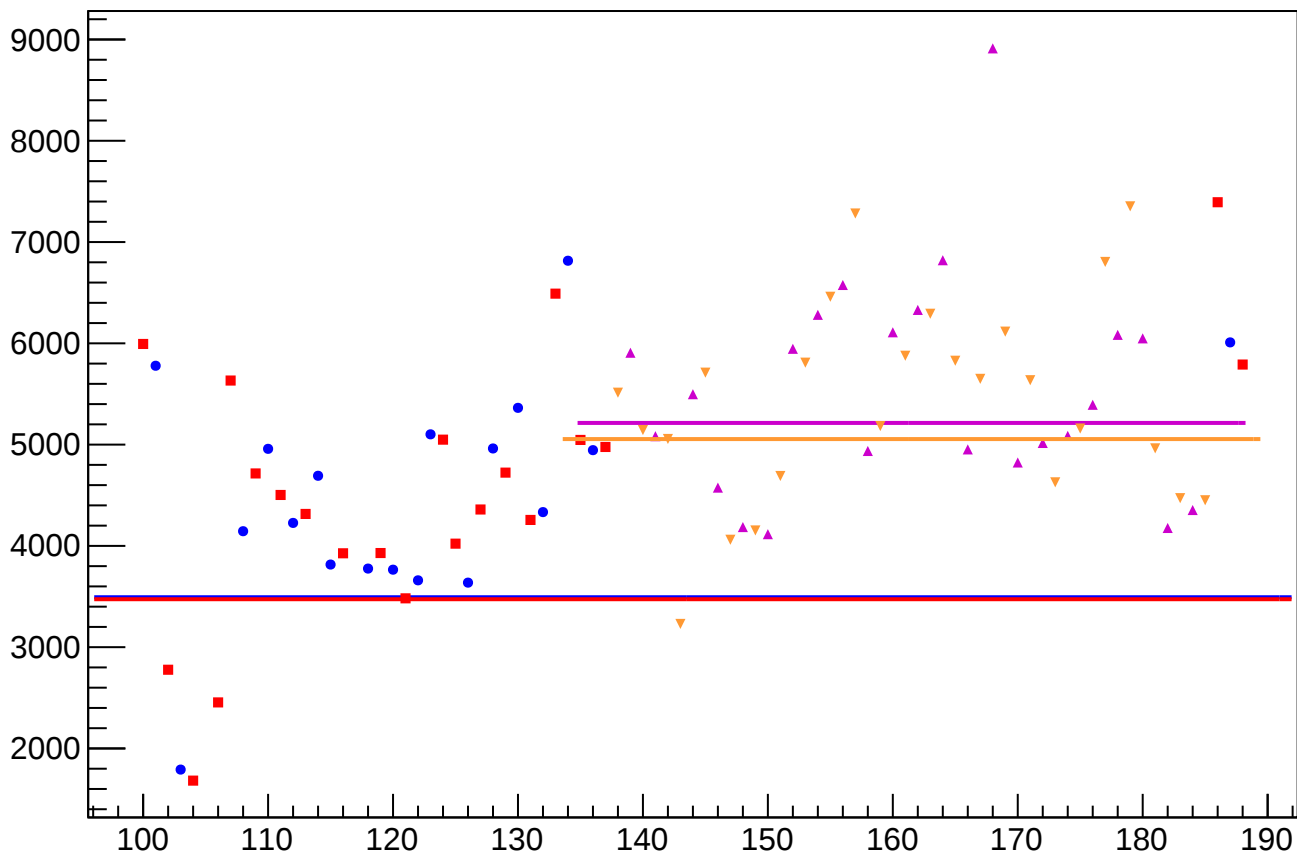
asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2639.185 $\pm$ 1449.534 χ^2 /NDF: 14.8/17
 Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24
 Right Out: 2761.094 $\pm$ 1341.625 χ^2 /NDF: 24.8/20
 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: 2704.846 $\pm$ 984.613 χ^2 /NDF: 39.6/38
 In: 2951.449 $\pm$ 955.240 χ^2 /NDF:28.9/40
 Out: 1989.133 $\pm$ 897.009 χ^2 /NDF:53.4/45
 All: 2440.068 $\pm$ 653.899 χ^2 /NDF: 82.8/86

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3492.972 $\pm$ 1.025 χ^2 /NDF: 1819362.9/17

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF: 1437224.7/24

Right Out: 3473.514 $\pm$ 0.940 χ^2 /NDF: 2439444.0/20

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

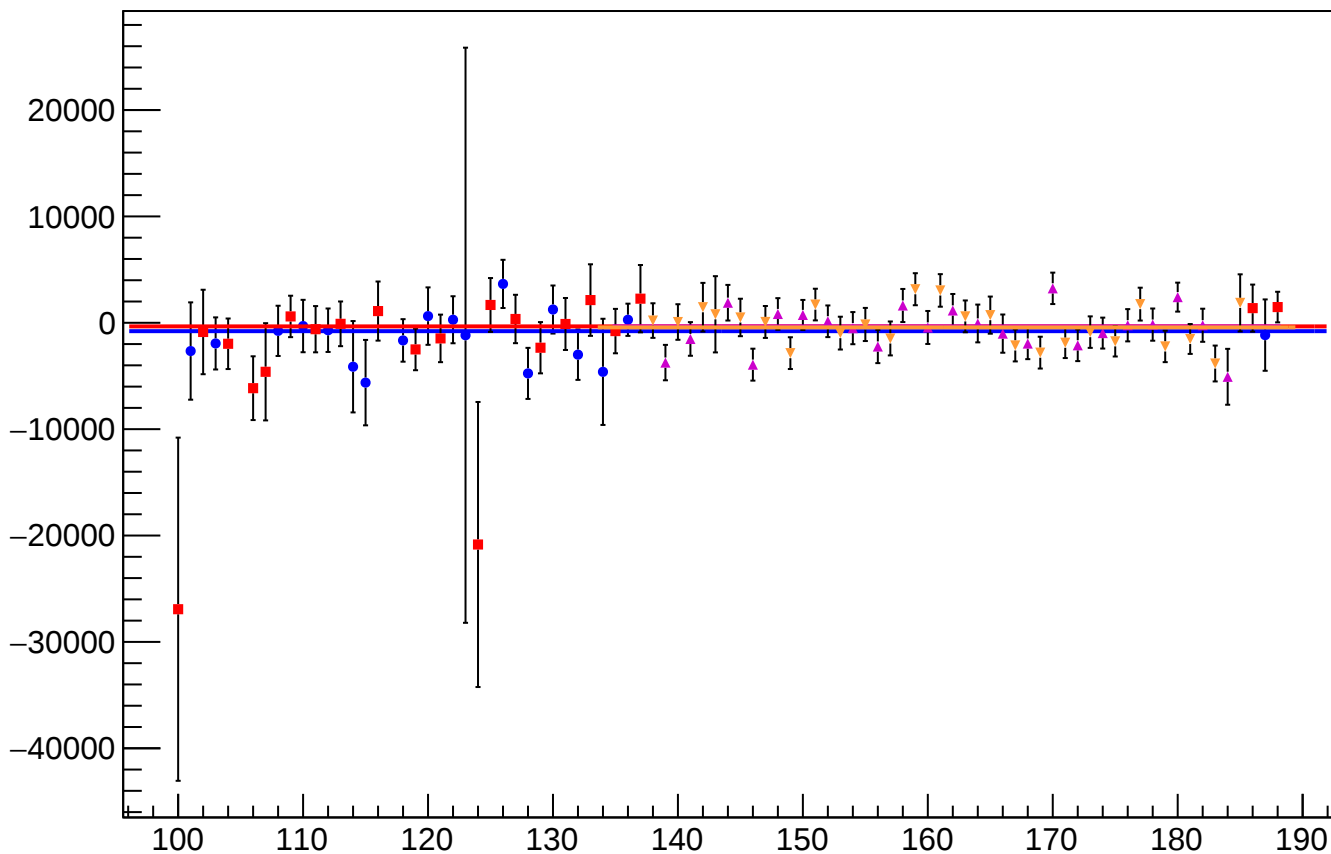
Right: 3482.408 $\pm$ 0.693 χ^2 /NDF: 4259002.6/38

In: 4466.642 $\pm$ 0.675 χ^2 /NDF: 4467098.4/40

Out: 4341.102 $\pm$ 0.632 χ^2 /NDF: 5427588.0/45

All: 4399.687 $\pm$ 0.461 χ^2 /NDF: 9913110.3/86

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -786.784 $\pm$ 595.958 χ^2 /NDF: 12.5/17

Left Out: -431.715 $\pm$ 320.540 χ^2 /NDF:33.1/24

Right Out: -339.009 $\pm$ 534.784 χ^2 /NDF: 17.1/20

Left In: -343.737 $\pm$ 324.368 χ^2 /NDF:33.8/22

Left: -388.248 $\pm$ 227.997 χ^2 /NDF: 66.9/47

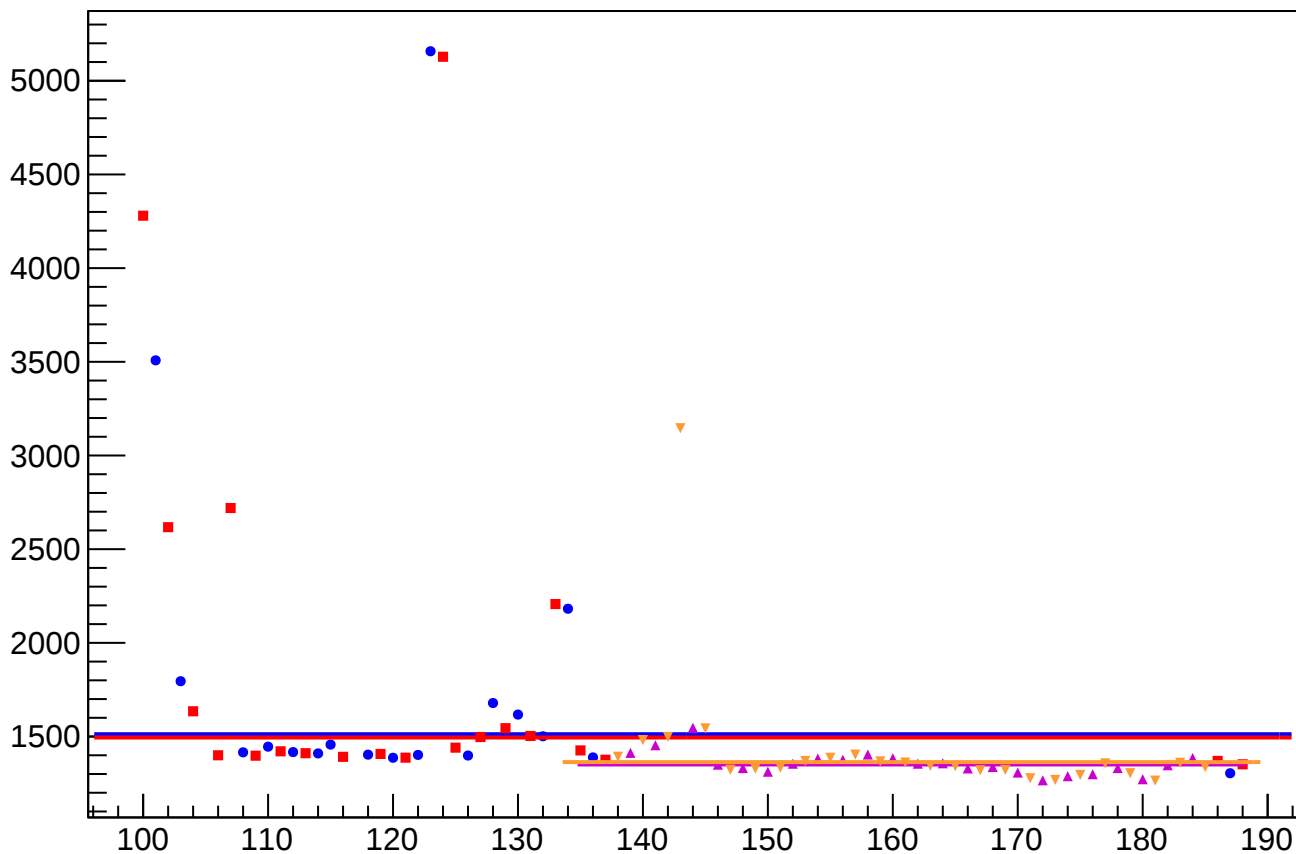
Right: -538.742 $\pm$ 398.025 χ^2 /NDF: 29.9/38

In: -444.990 $\pm$ 284.902 χ^2 /NDF:46.7/40

Out: -407.212 $\pm$ 274.936 χ^2 /NDF:50.2/45

All: -425.429 $\pm$ 197.838 χ^2 /NDF: 96.9/86

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1512.385 $\pm$ 0.421 χ^2 /NDF: 545634.7/17

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1494.749 $\pm$ 0.378 χ^2 /NDF: 663671.9/20

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

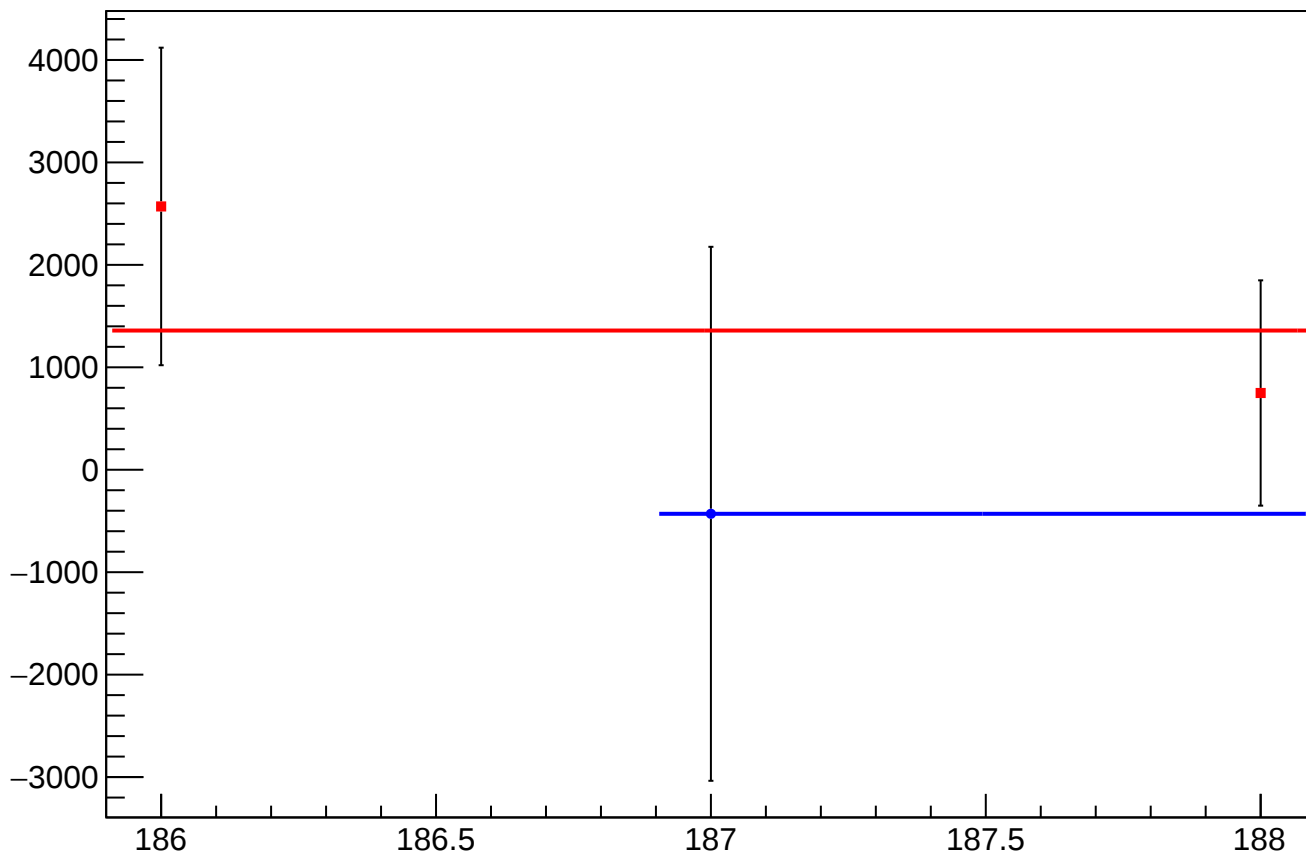
Right: 1502.616 $\pm$ 0.281 χ^2 /NDF: 1210276.8/38

In: 1387.813 $\pm$ 0.201 χ^2 /NDF: 726054.1/40

Out: 1398.235 $\pm$ 0.194 χ^2 /NDF: 1327442.9/45

All: 1393.209 $\pm$ 0.140 χ^2 /NDF: 2054882.9/86

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -430.080+/-2606.243 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1358.956+/-896.823 χ^2/NDF : 0.9/1

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

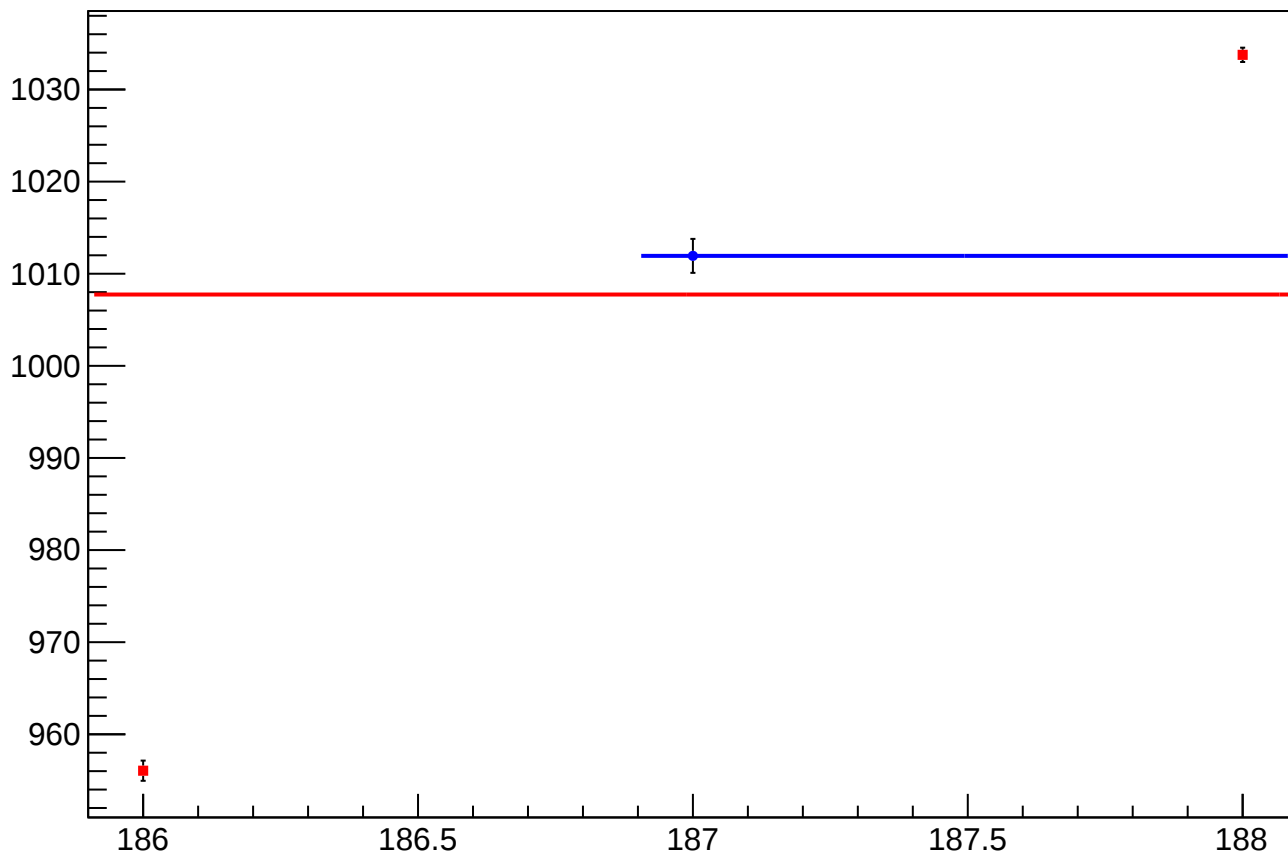
Right: 1169.547+/-848.020 χ^2/NDF : 1.3/2

In: -430.080+/-2606.243 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1169.547+/-848.020 χ^2/NDF : 1.3/2

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1011.938 $\pm$ 1.843 χ^2 /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Right Out: 1007.742 $\pm$ 0.634 χ^2 /NDF: 3344.9/1

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

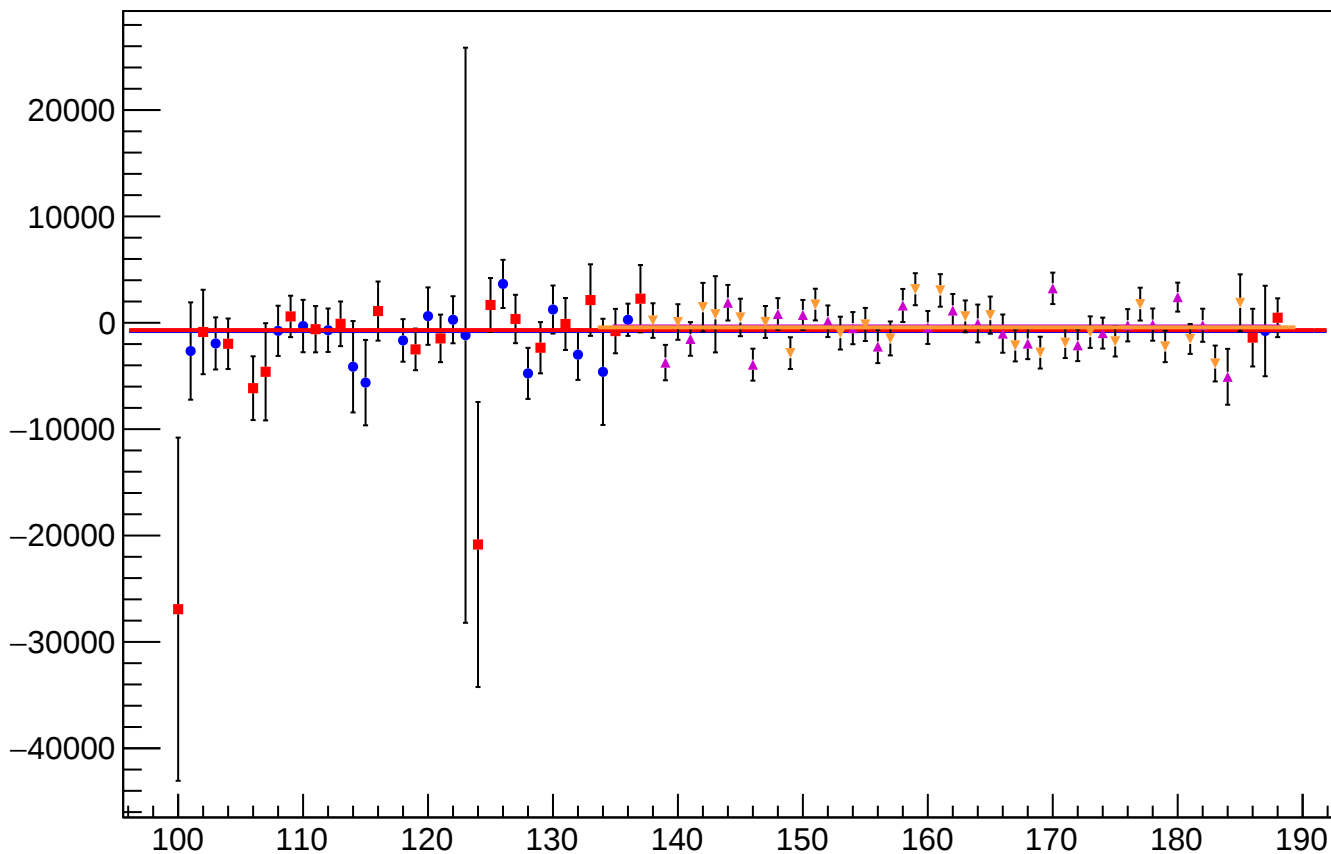
Right: 1008.186 $\pm$ 0.600 χ^2 /NDF: 3349.5/2

In: 1011.938 $\pm$ 1.843 χ^2 /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

All: 1008.186 $\pm$ 0.600 χ^2 /NDF: 3349.5/2

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -774.636+/-599.549 χ^2/NDF : 12.5/17

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -686.815+/-555.100 χ^2/NDF : 14.8/20

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

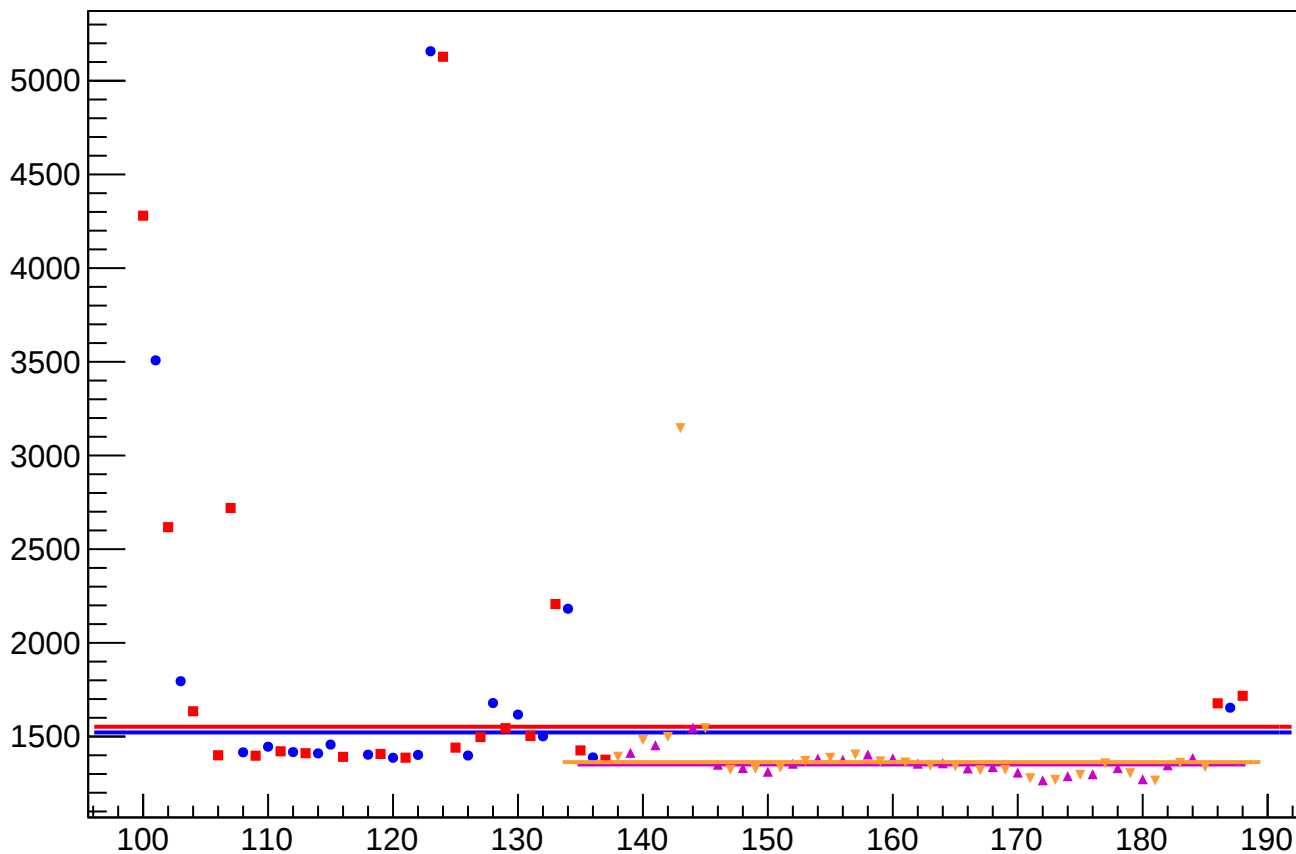
Right: -727.350+/-407.323 χ^2/NDF : 27.4/38

In: -441.304+/-285.292 χ^2/NDF : 46.7/40

Out: -495.505+/-277.584 χ^2/NDF : 48.1/45

All: -469.147+/-198.951 χ^2/NDF : 94.8/86

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1521.847 $\pm$ 0.424 χ^2 /NDF: 539645.8/17

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1552.163 $\pm$ 0.393 χ^2 /NDF: 654981.0/20

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

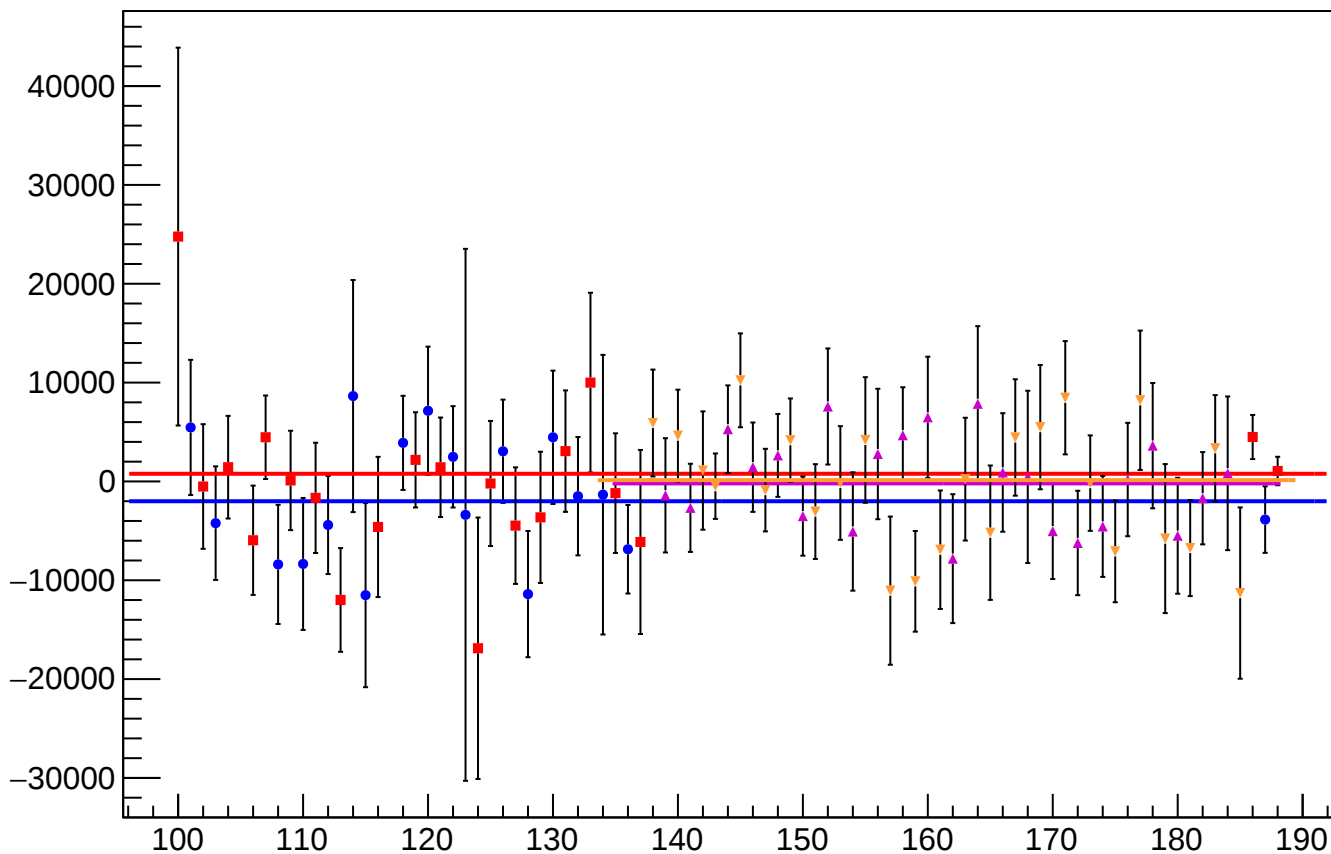
Right: 1538.170 $\pm$ 0.288 χ^2 /NDF: 1197380.2/38

In: 1389.614 $\pm$ 0.202 χ^2 /NDF: 732555.6/40

Out: 1410.724 $\pm$ 0.196 χ^2 /NDF: 1403352.4/45

All: 1400.458 $\pm$ 0.141 χ^2 /NDF: 2141533.0/86

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -2004.342 $\pm$ 1383.486 χ^2 /NDF: 15.3/17

Left Out: 132.142 $\pm$ 1065.543 χ^2 /NDF: 28.1/24

Right Out: 774.953 $\pm$ 910.239 χ^2 /NDF: 18.4/20

Left In: -200.182 $\pm$ 1123.499 χ^2 /NDF: 14.7/22

Left: -25.227 $\pm$ 773.130 χ^2 /NDF: 42.9/47

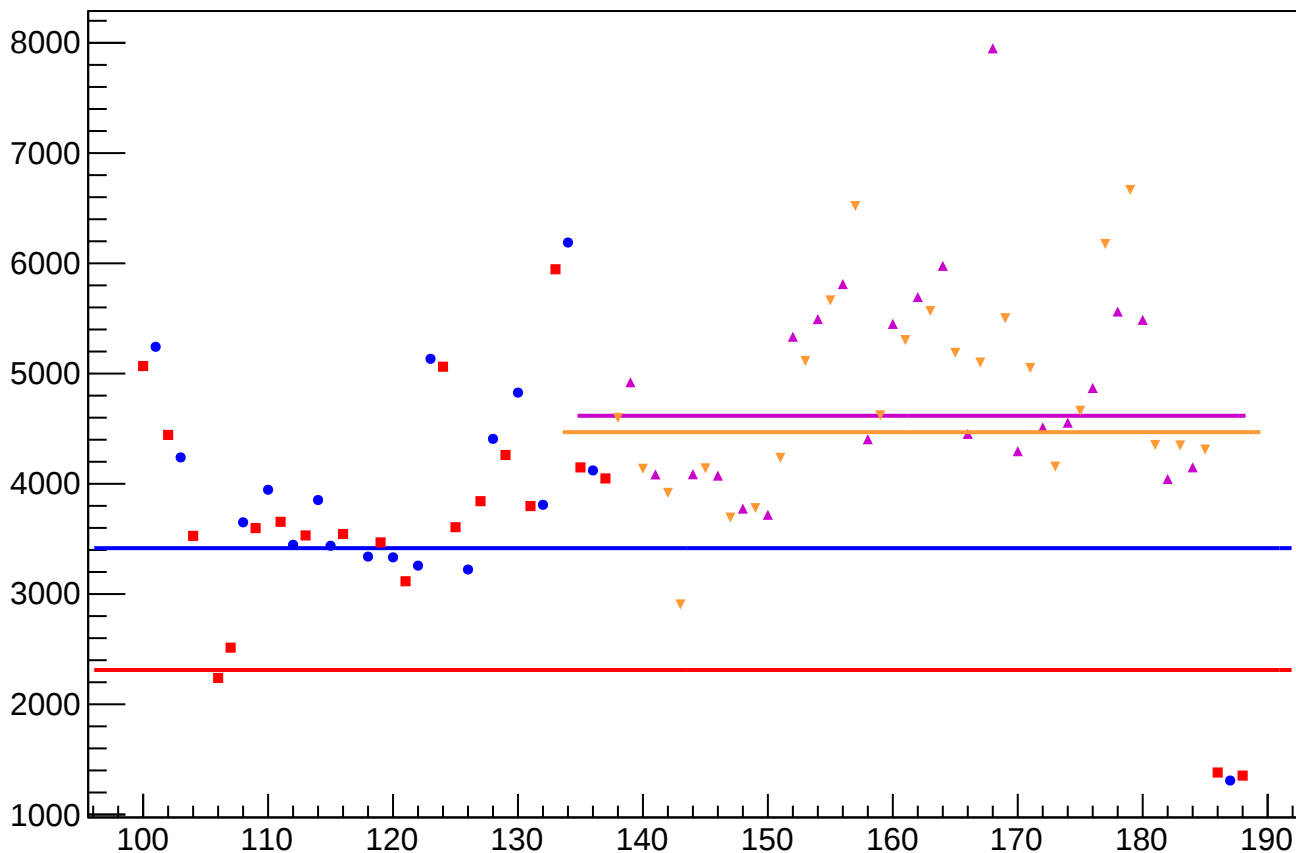
Right: -64.677 $\pm$ 760.416 χ^2 /NDF: 36.4/38

In: -917.153 $\pm$ 872.143 χ^2 /NDF: 31.0/40

Out: 503.765 $\pm$ 692.093 χ^2 /NDF: 46.7/45

All: -45.279 $\pm$ 542.135 χ^2 /NDF: 79.3/86

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3416.453+/-0.978 χ^2/NDF : 1271328.2/17

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 2311.411+/-0.641 χ^2/NDF : 3369114.9/20

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

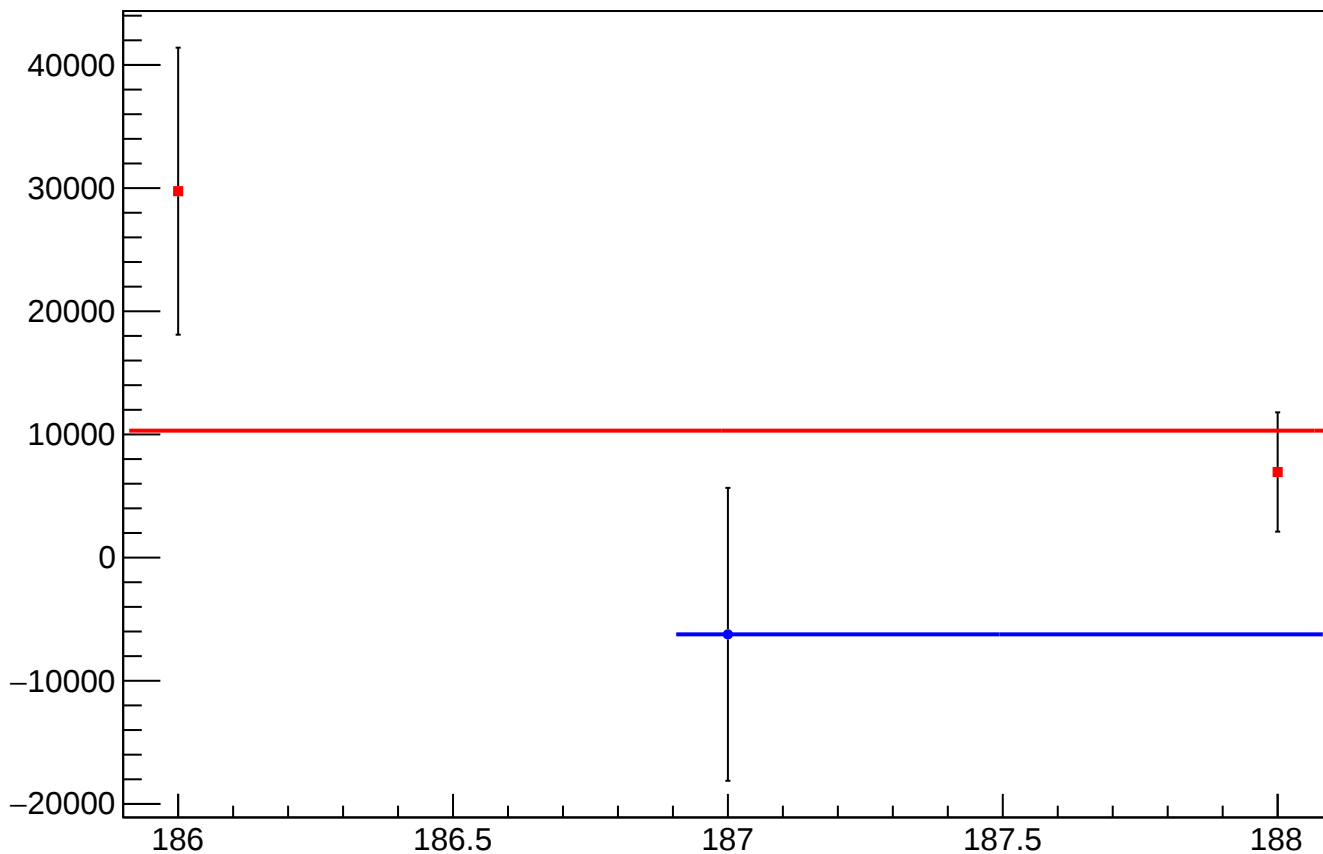
Right: 2643.396+/-0.536 χ^2/NDF : 5533112.5/38

In: 4140.068+/-0.617 χ^2/NDF : 3178941.7/40

Out: 3217.244+/-0.488 χ^2/NDF : 9504309.2/45

All: 3572.815+/-0.383 χ^2/NDF : 14059693.3/86

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -6230.200+/-11890.741 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF :0.0/0

Right Out: 10309.399+/-4471.948 χ^2/NDF : 3.3/1

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

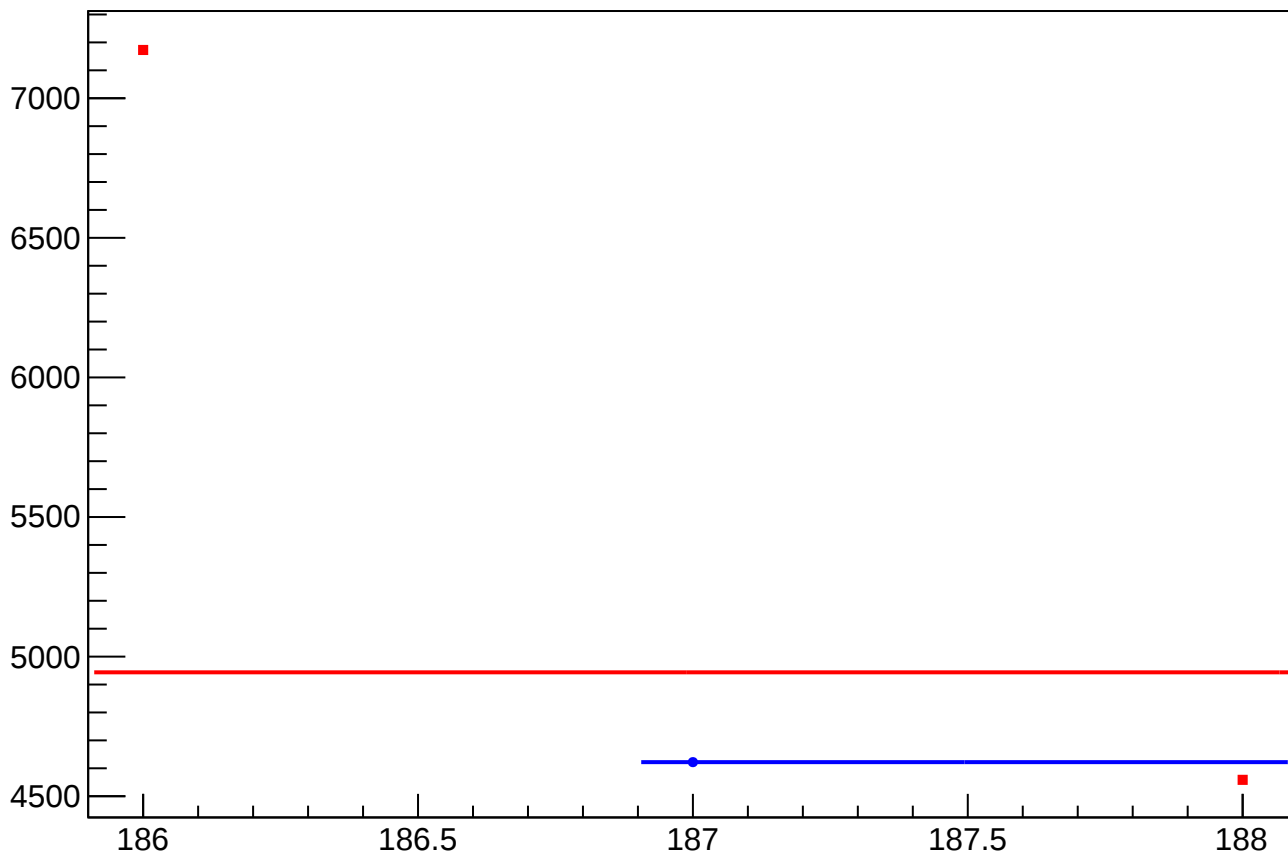
Right: 8259.903+/-4185.718 χ^2/NDF : 5.0/2

In: -6230.200+/-11890.741 χ^2/NDF :0.0/0

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 8259.903+/-4185.718 χ^2/NDF : 5.0/2

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 4622.046 $\pm$ 8.408 χ^2 /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Right Out: 4943.726 $\pm$ 3.162 χ^2 /NDF: 85849.6/1

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

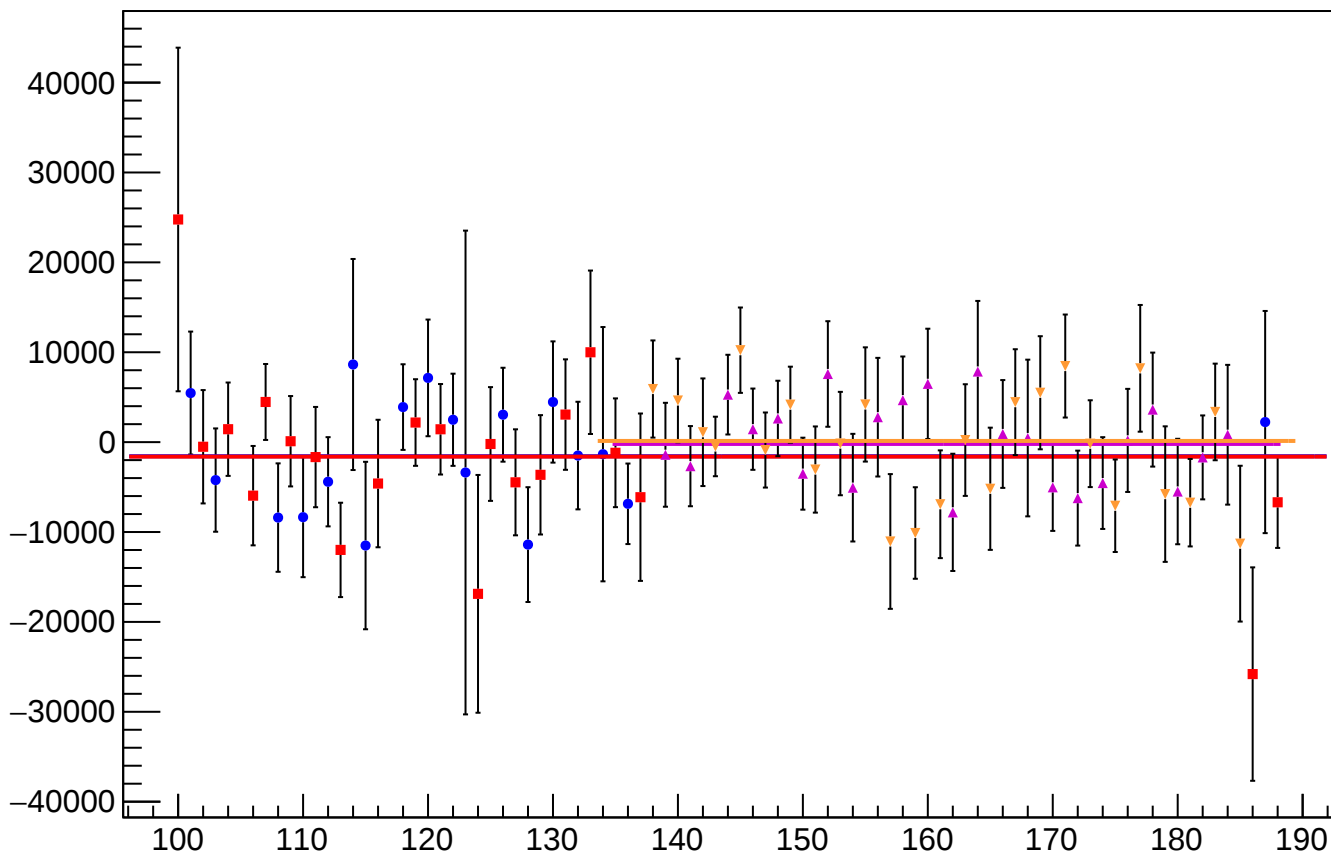
Right: 4903.865 $\pm$ 2.960 χ^2 /NDF: 87132.0/2

In: 4622.046 $\pm$ 8.408 χ^2 /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

All: 4903.865 $\pm$ 2.960 χ^2 /NDF: 87132.0/2

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1569.608 ± 1506.362 $\chi^2/\text{NDF}: 15.0/17$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -1611.988 ± 1325.019 $\chi^2/\text{NDF}: 19.5/20$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

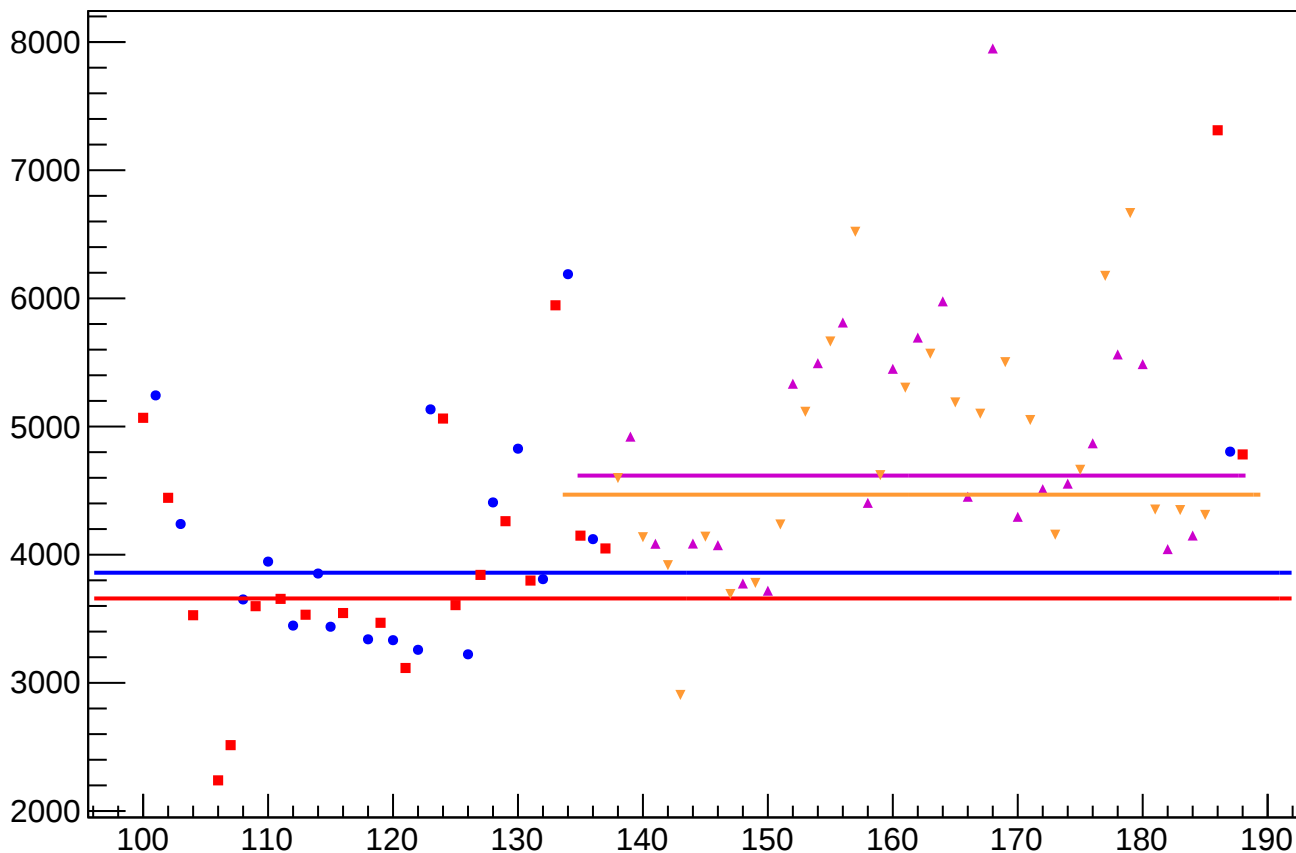
Right: -1593.501 ± 994.900 $\chi^2/\text{NDF}: 34.5/38$

In: -689.668 ± 900.596 $\chi^2/\text{NDF}: 30.3/40$

Out: -552.816 ± 830.357 $\chi^2/\text{NDF}: 48.6/45$

All: -615.697 ± 610.474 $\chi^2/\text{NDF}: 78.9/86$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3859.434+/-1.065 χ^2/NDF : 338809.9/17

Left Out: 4468.520+/-0.753 χ^2/NDF :1380601.0/24

Right Out: 3658.551+/-0.929 χ^2/NDF : 861766.0/20

Left In: 4617.293+/-0.794 χ^2/NDF :999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

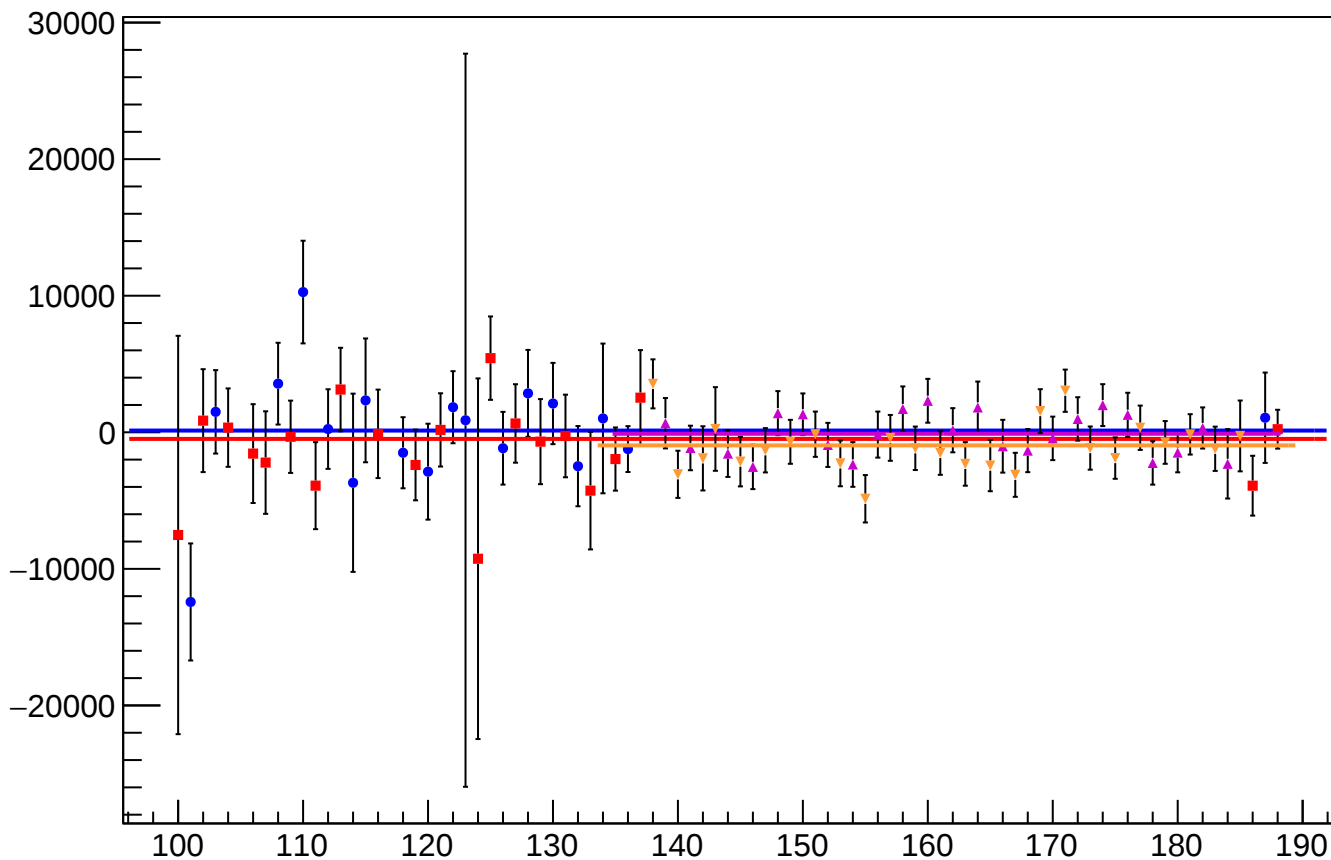
Right: 3745.348+/-0.700 χ^2/NDF : 1220776.6/38

In: 4346.396+/-0.637 χ^2/NDF :1663705.1/40

Out: 4147.162+/-0.585 χ^2/NDF :2700873.6/45

All: 4238.379+/-0.431 χ^2/NDF : 4417646.8/86

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 126.876 $\pm$ 734.072 χ^2 /NDF: 22.5/17

Left Out: -958.410 $\pm$ 339.496 χ^2 /NDF:28.5/24

Right Out: -484.040 $\pm$ 626.343 χ^2 /NDF: 12.9/20

Left In: -107.512 $\pm$ 343.663 χ^2 /NDF:19.5/22

Left: -538.150 $\pm$ 241.520 χ^2 /NDF: 51.1/47

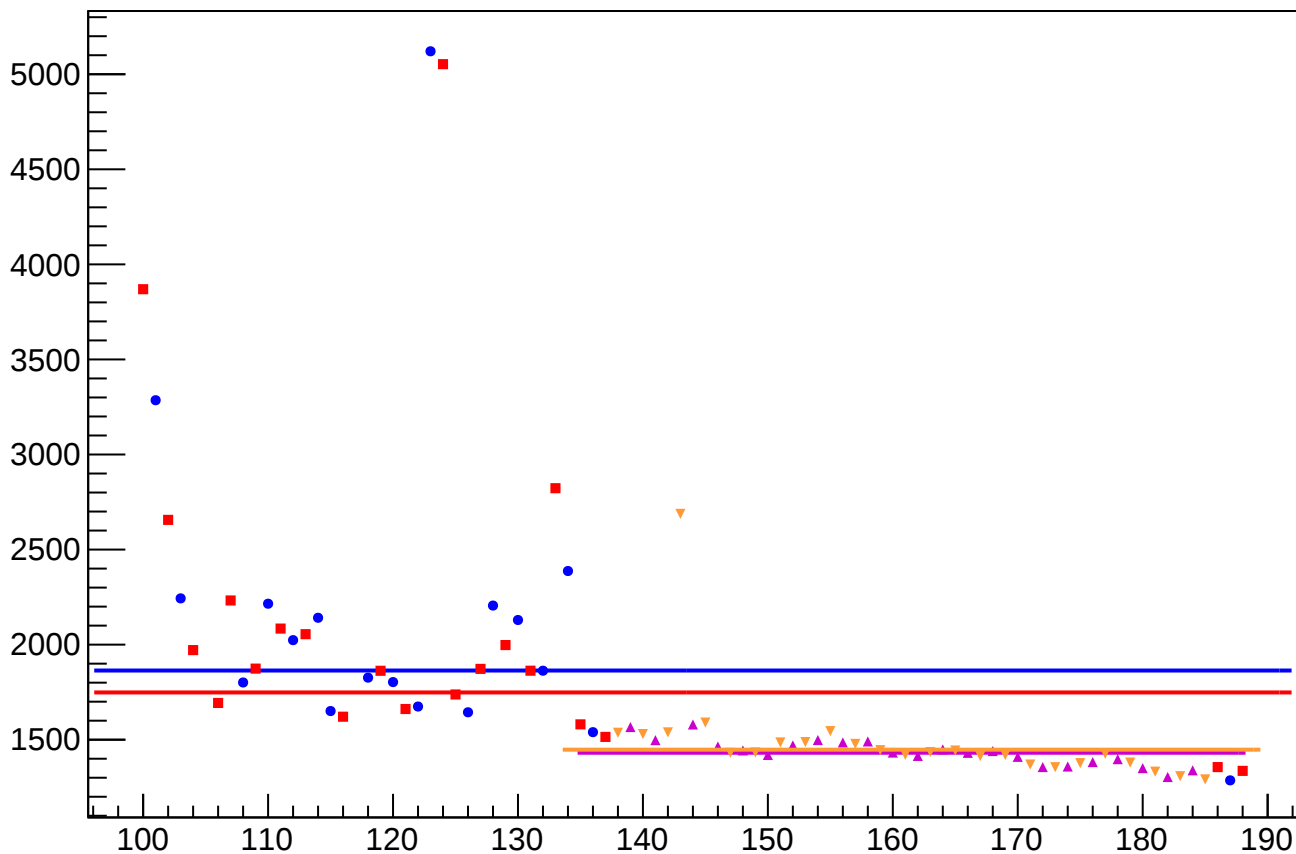
Right: -226.658 $\pm$ 476.471 χ^2 /NDF: 35.8/38

In: -65.376 $\pm$ 311.243 χ^2 /NDF:42.0/40

Out: -850.690 $\pm$ 298.471 χ^2 /NDF:41.9/45

All: -474.476 $\pm$ 215.425 χ^2 /NDF: 87.2/86

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1863.875 $\pm$ 0.519 χ^2 /NDF: 530601.7/17

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1748.569 $\pm$ 0.443 χ^2 /NDF: 781436.5/20

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

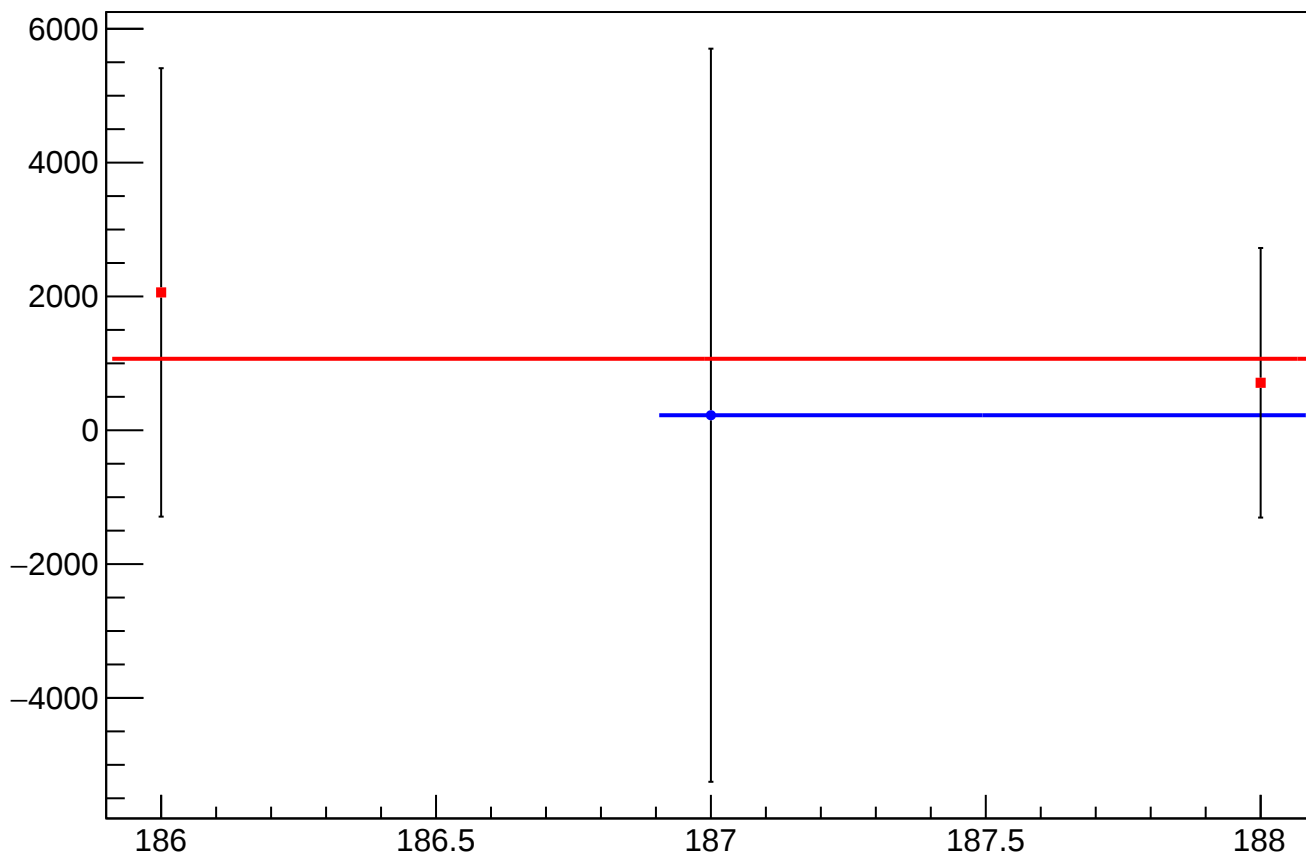
Right: 1797.148 $\pm$ 0.337 χ^2 /NDF: 1340594.9/38

In: 1509.193 $\pm$ 0.220 χ^2 /NDF: 1174979.9/40

Out: 1515.910 $\pm$ 0.211 χ^2 /NDF: 1557736.6/45

All: 1512.692 $\pm$ 0.152 χ^2 /NDF: 2733201.8/86

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 224.778+/-5478.287 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1068.359+/-1726.527 χ^2/NDF : 0.1/1

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

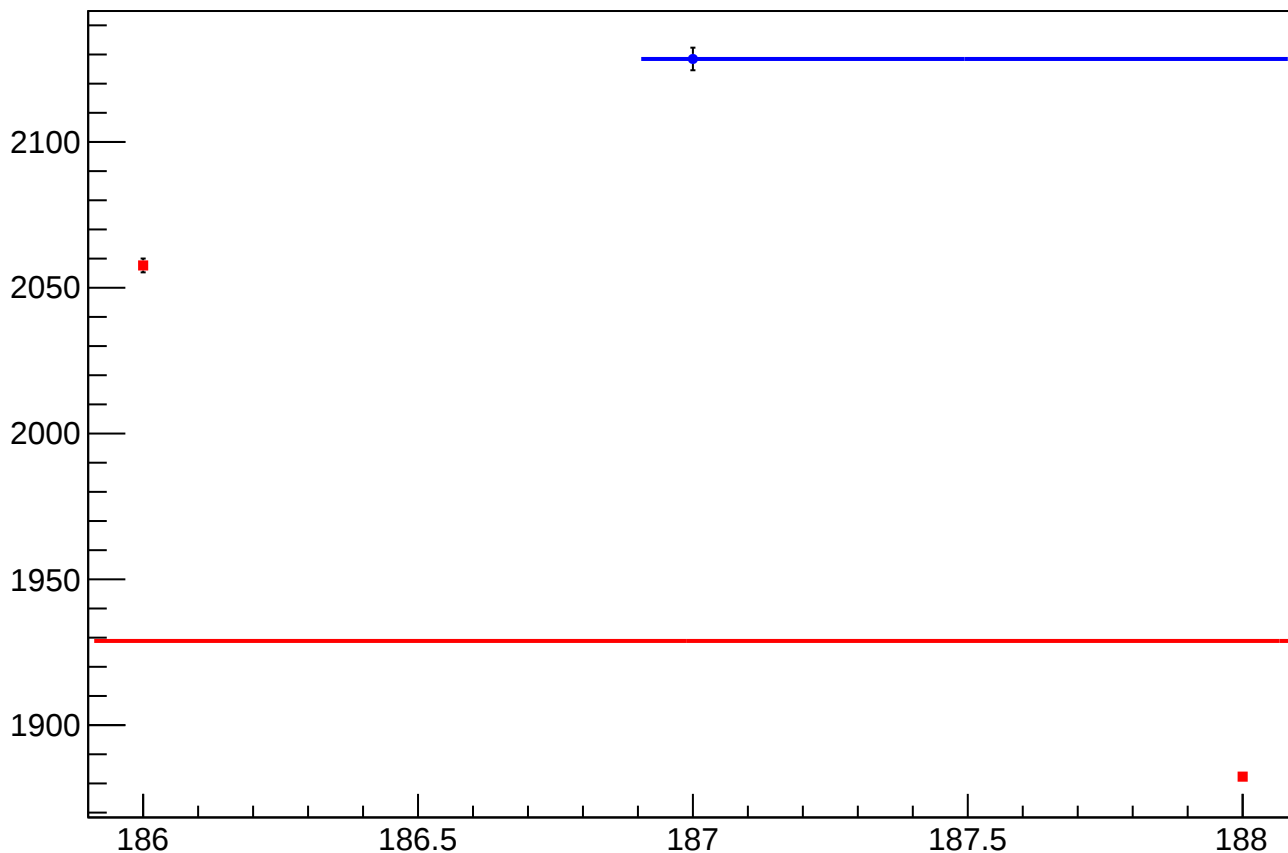
Right: 992.141+/-1646.684 χ^2/NDF : 0.1/2

In: 224.778+/-5478.287 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 992.141+/-1646.684 χ^2/NDF : 0.1/2

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 2128.467 $\pm$ 3.874 χ^2 /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Right Out: 1928.871 $\pm$ 1.221 χ^2 /NDF: 4021.3/1

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

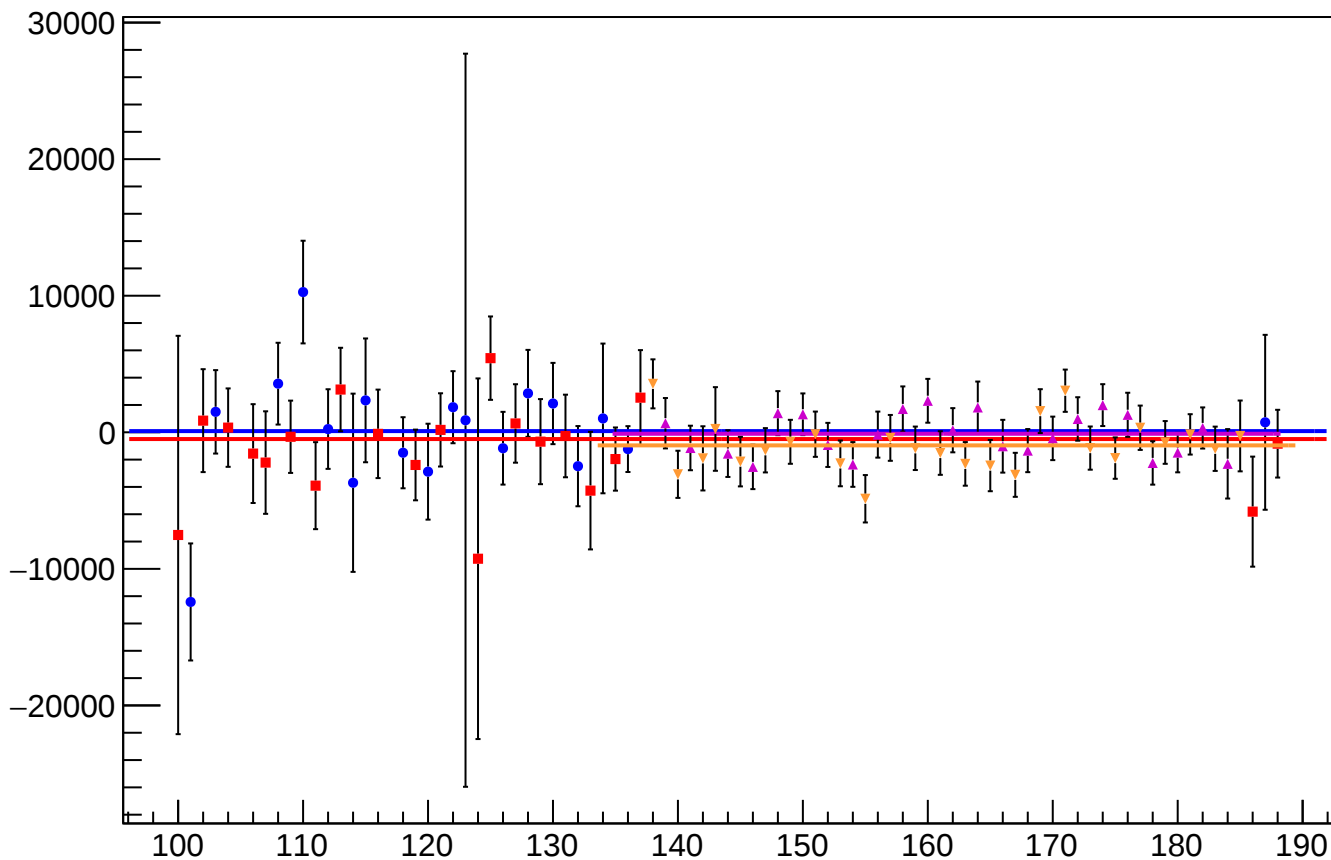
Right: 1946.905 $\pm$ 1.164 χ^2 /NDF: 6436.3/2

In: 2128.467 $\pm$ 3.874 χ^2 /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

All: 1946.905 $\pm$ 1.164 χ^2 /NDF: 6436.3/2

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 87.117 ± 747.695 $\chi^2/\text{NDF}: 22.4/17$

Left Out: -958.410 ± 339.496 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -494.967 ± 695.058 $\chi^2/\text{NDF}: 12.0/20$

Left In: -107.512 ± 343.663 $\chi^2/\text{NDF}: 19.5/22$

Left: -538.150 ± 241.520 $\chi^2/\text{NDF}: 51.1/47$

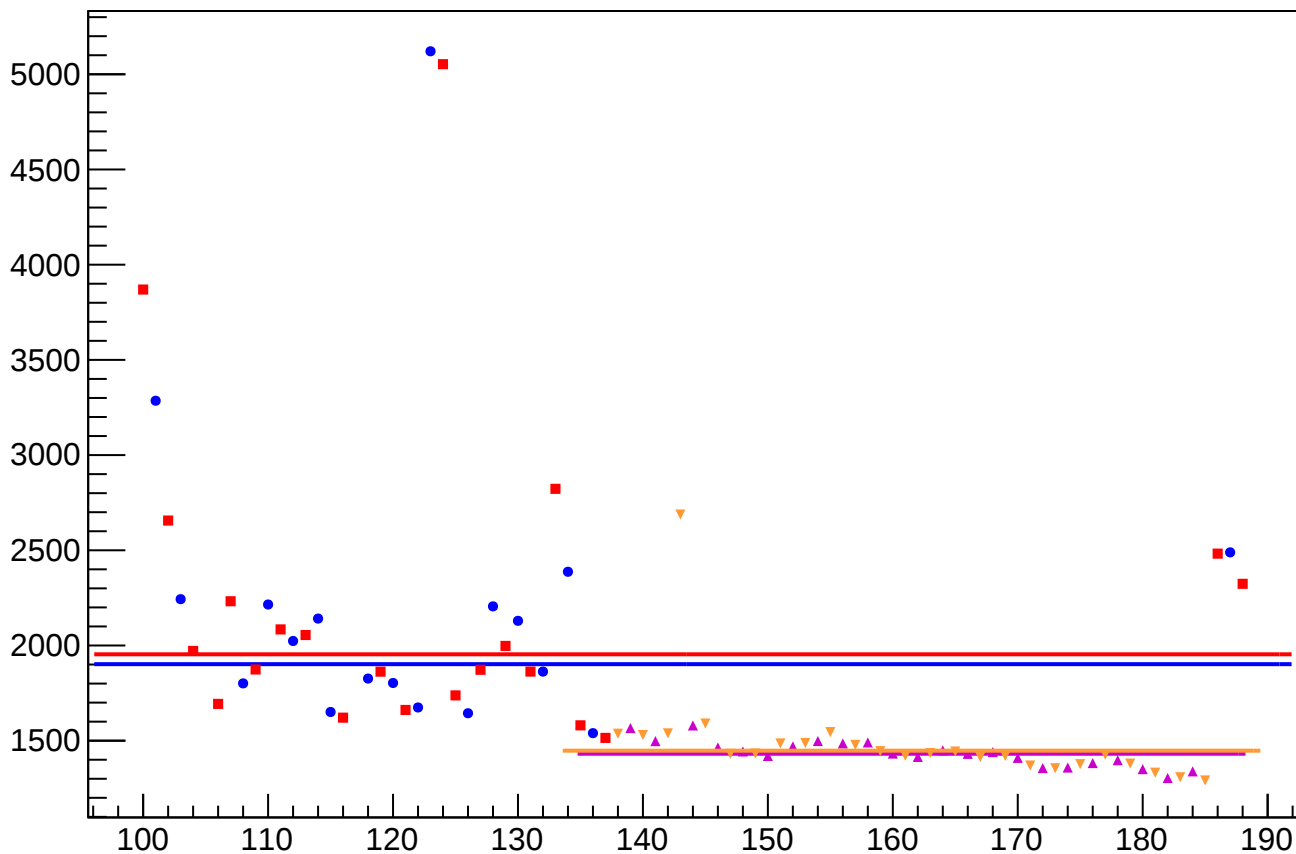
Right: -225.134 ± 509.073 $\chi^2/\text{NDF}: 34.7/38$

In: -73.566 ± 312.258 $\chi^2/\text{NDF}: 41.9/40$

Out: -869.141 ± 305.052 $\chi^2/\text{NDF}: 40.9/45$

All: -480.640 ± 218.207 $\chi^2/\text{NDF}: 86.1/86$

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1901.912 $\pm$ 0.529 χ^2 /NDF: 483493.0/17

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1953.728 $\pm$ 0.491 χ^2 /NDF: 548554.7/20

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

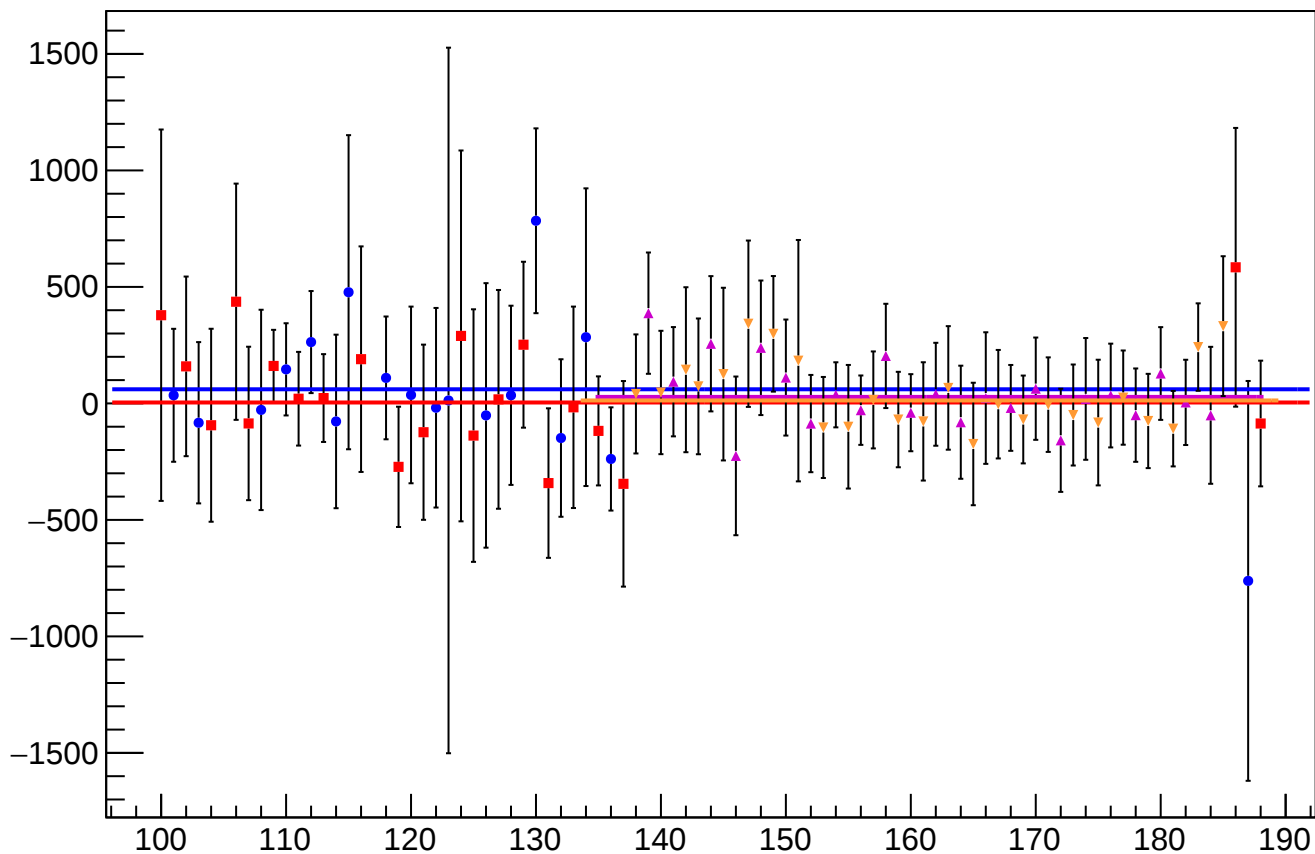
Right: 1929.708 $\pm$ 0.360 χ^2 /NDF: 1037200.3/38

In: 1513.510 $\pm$ 0.221 χ^2 /NDF: 1212335.4/40

Out: 1545.056 $\pm$ 0.216 χ^2 /NDF: 1824201.1/45

All: 1529.651 $\pm$ 0.154 χ^2 /NDF: 3046981.3/86

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 60.627+/-79.494 χ^2/NDF : 8.5/17

Left Out: 12.618+/-47.486 χ^2/NDF : 7.7/24

Right Out: 3.932+/-67.343 χ^2/NDF : 7.5/20

Left In: 27.921+/-44.523 χ^2/NDF : 6.5/22

Left: 20.762+/-32.480 χ^2/NDF : 14.3/47

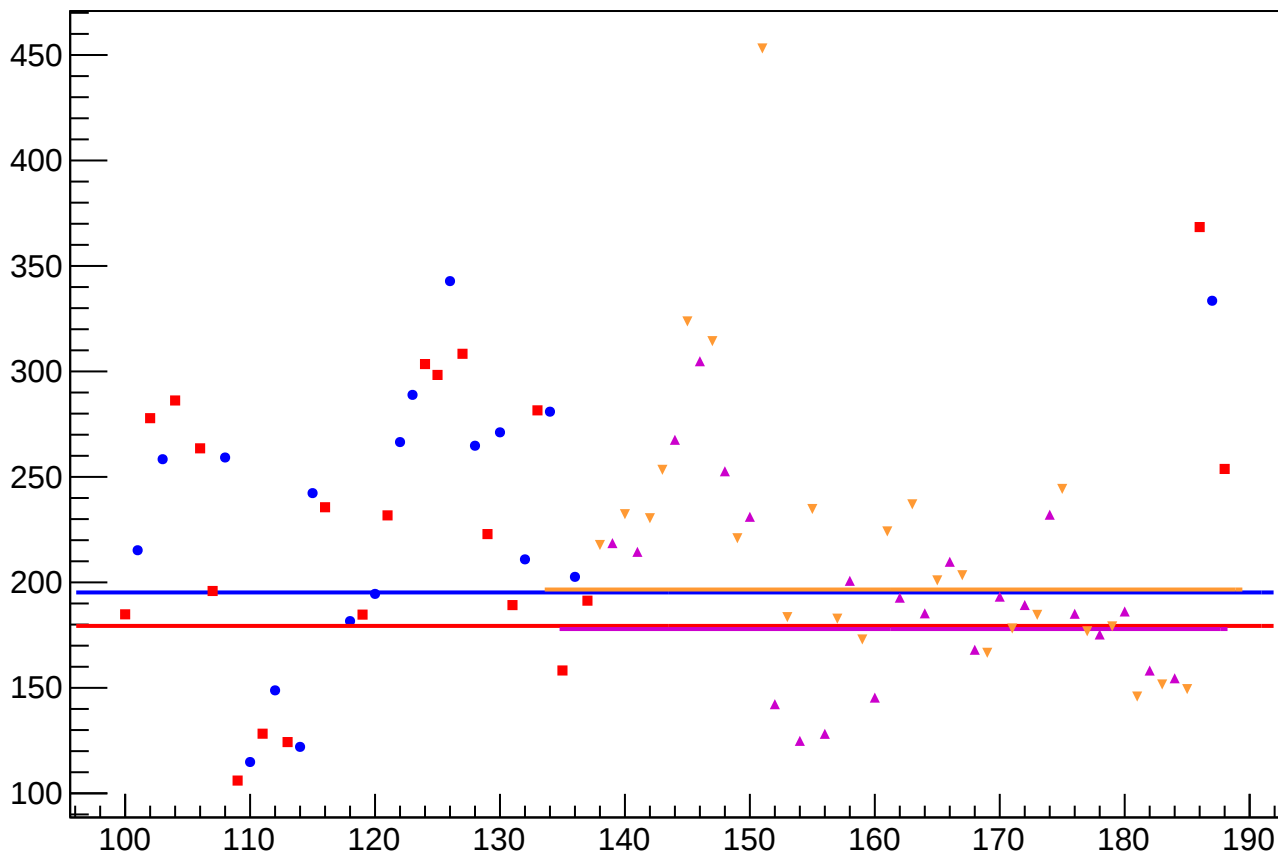
Right: 27.620+/-51.384 χ^2/NDF : 16.3/38

In: 35.731+/-38.846 χ^2/NDF : 15.1/40

Out: 9.734+/-38.808 χ^2/NDF : 15.2/45

All: 22.720+/-27.455 χ^2/NDF : 30.5/86

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.229 $\pm$ 0.056 χ^2 /NDF: 1064335.2/17

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 179.366 $\pm$ 0.048 χ^2 /NDF: 1947230.5/20

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

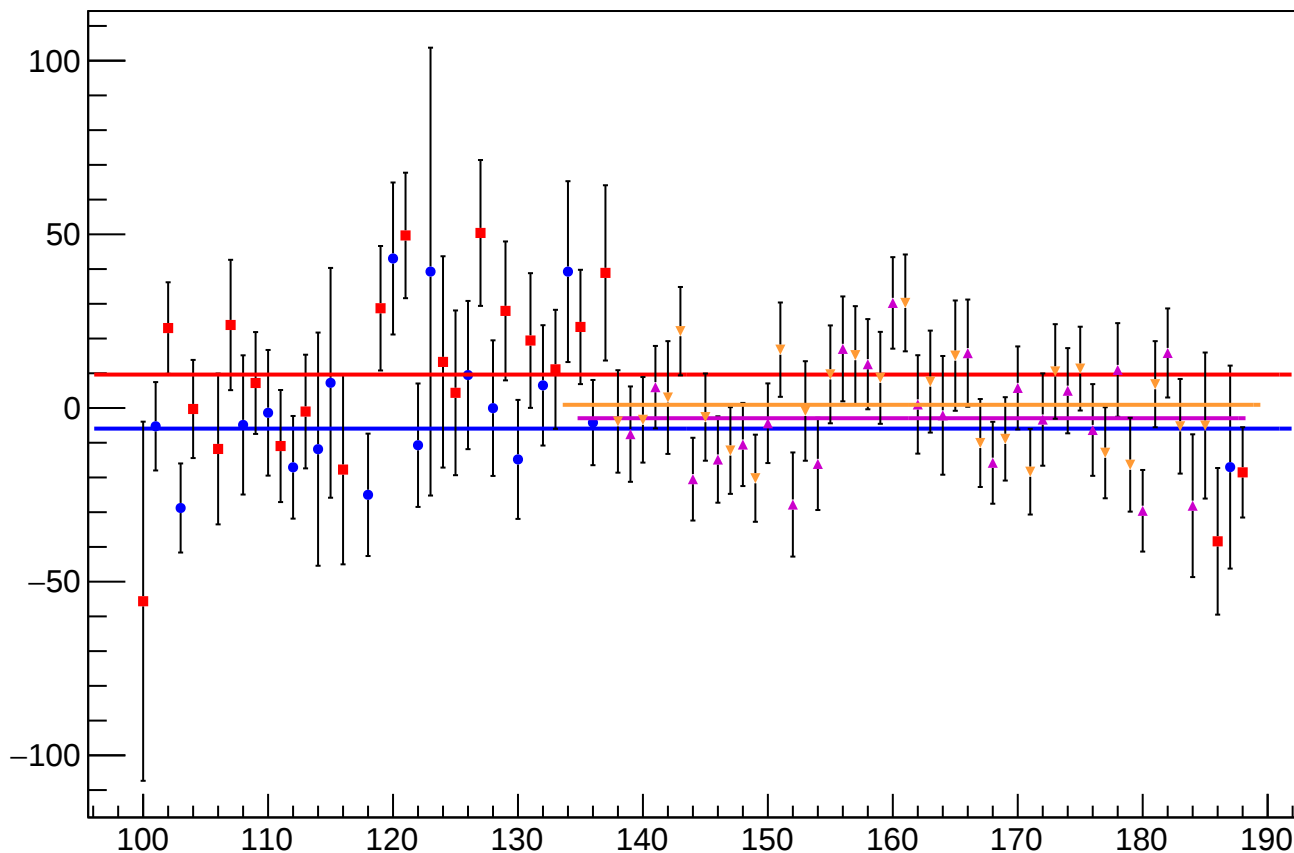
Right: 185.994 $\pm$ 0.036 χ^2 /NDF: 3057935.7/38

In: 182.021 $\pm$ 0.027 χ^2 /NDF:2780957.0/40

Out: 190.890 $\pm$ 0.027 χ^2 /NDF:3828426.5/45

All: 186.460 $\pm$ 0.019 χ^2 /NDF: 6661556.2/86

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.934 ± 4.313 $\chi^2/\text{NDF}: 15.3/17$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 9.626 ± 3.985 $\chi^2/\text{NDF}: 30.6/20$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

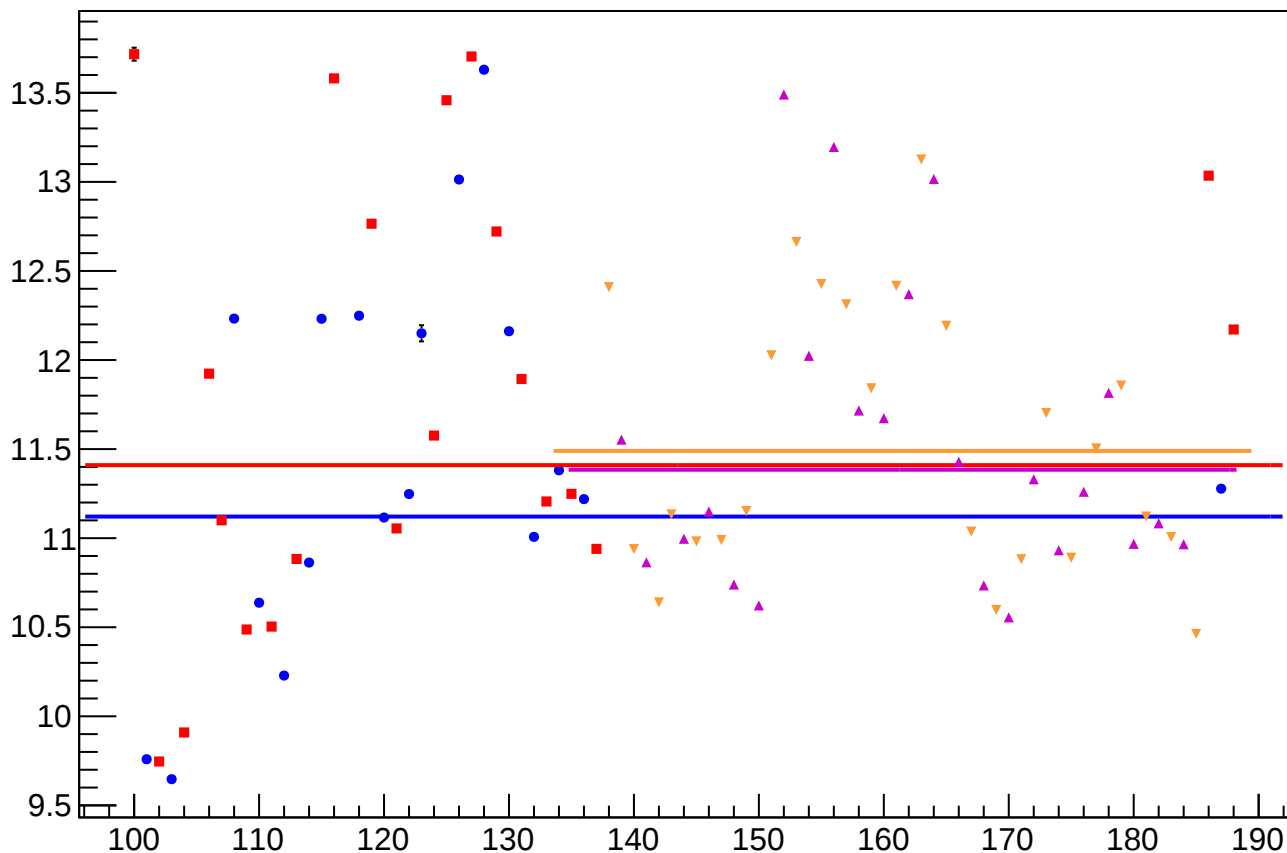
Right: 2.460 ± 2.927 $\chi^2/\text{NDF}: 53.0/38$

In: -3.804 ± 2.316 $\chi^2/\text{NDF}: 46.7/40$

Out: 3.653 ± 2.233 $\chi^2/\text{NDF}: 57.9/45$

All: 0.060 ± 1.607 $\chi^2/\text{NDF}: 110.0/86$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.121 $\pm$ 0.003 χ^2 /NDF: 132009.8/17

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 11.410 $\pm$ 0.003 χ^2 /NDF: 169837.0/20

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

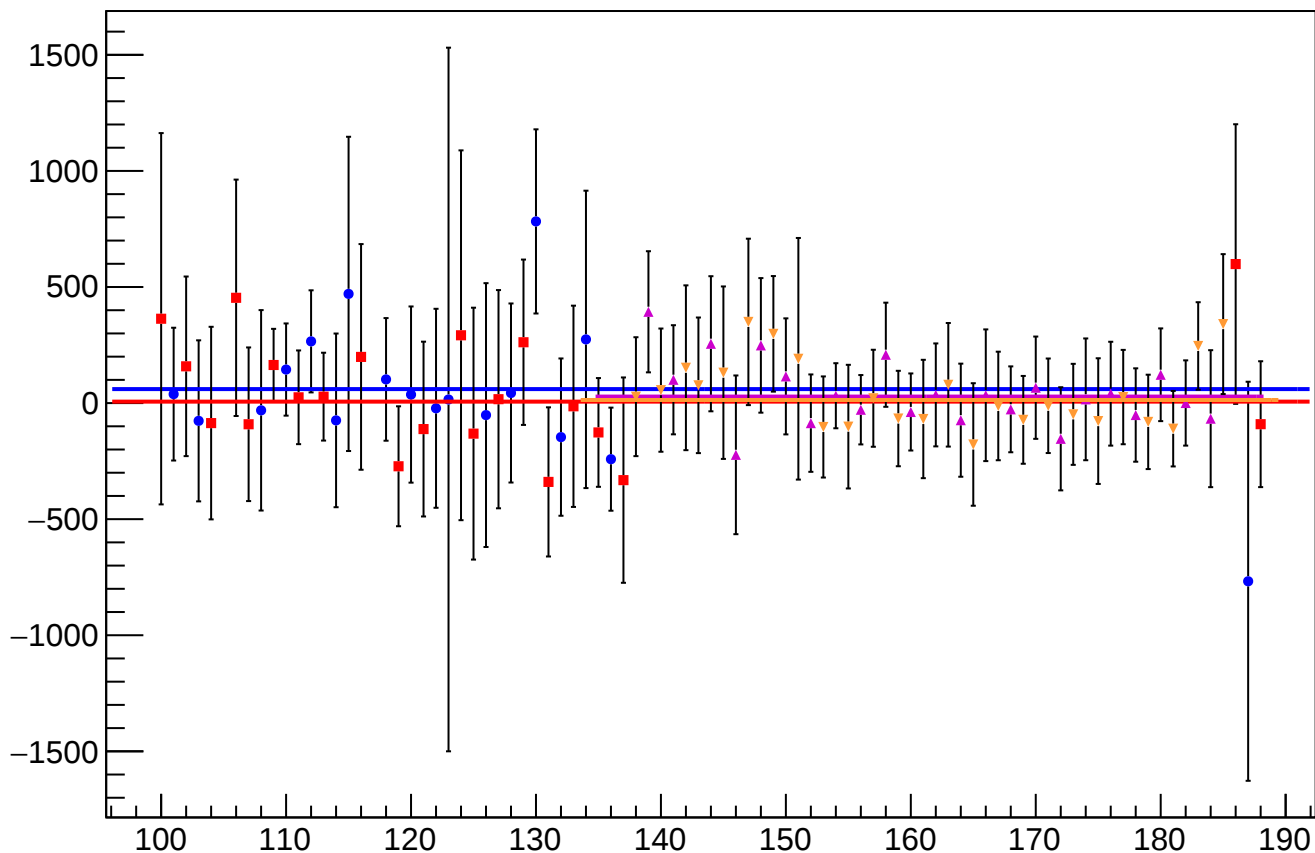
Right: 11.277 $\pm$ 0.002 χ^2 /NDF: 306679.4/38

In: 11.308 $\pm$ 0.002 χ^2 /NDF:287096.6/40

Out: 11.465 $\pm$ 0.002 χ^2 /NDF:302787.4/45

All: 11.389 $\pm$ 0.001 χ^2 /NDF: 594608.9/86

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 60.279+/-79.703 χ^2/NDF : 8.4/17

Left Out: 13.323+/-47.662 χ^2/NDF : 7.9/24

Right Out: 6.258+/-67.551 χ^2/NDF : 7.6/20

Left In: 28.050+/-44.681 χ^2/NDF : 6.6/22

Left: 21.161+/-32.597 χ^2/NDF : 14.6/47

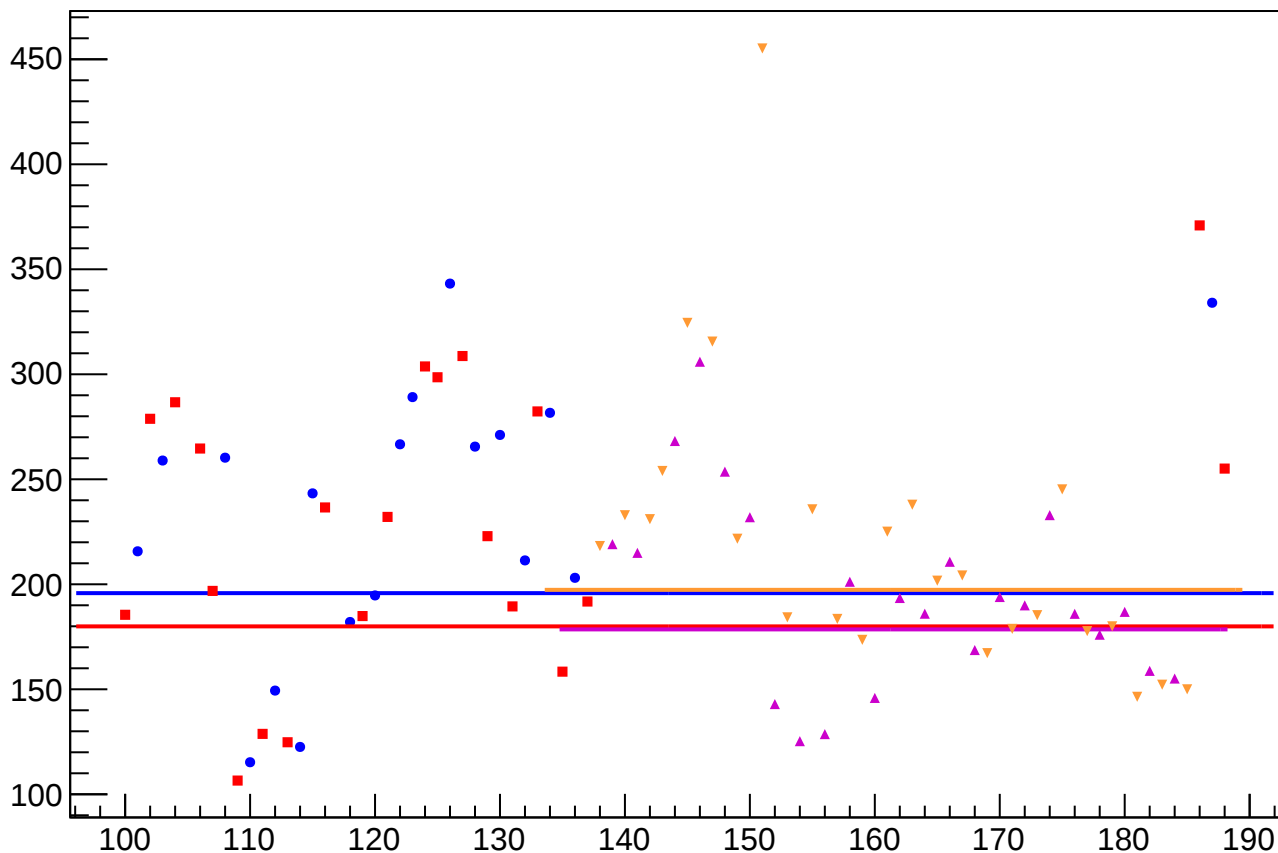
Right: 28.841+/-51.532 χ^2/NDF : 16.3/38

In: 35.757+/-38.975 χ^2/NDF : 15.2/40

Out: 10.975+/-38.944 χ^2/NDF : 15.5/45

All: 23.356+/-27.548 χ^2/NDF : 30.9/86

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.782 $\pm$ 0.056 χ^2 /NDF: 1059206.5/17

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF: 1790824.5/24

Right Out: 179.952 $\pm$ 0.048 χ^2 /NDF: 1942757.7/20

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

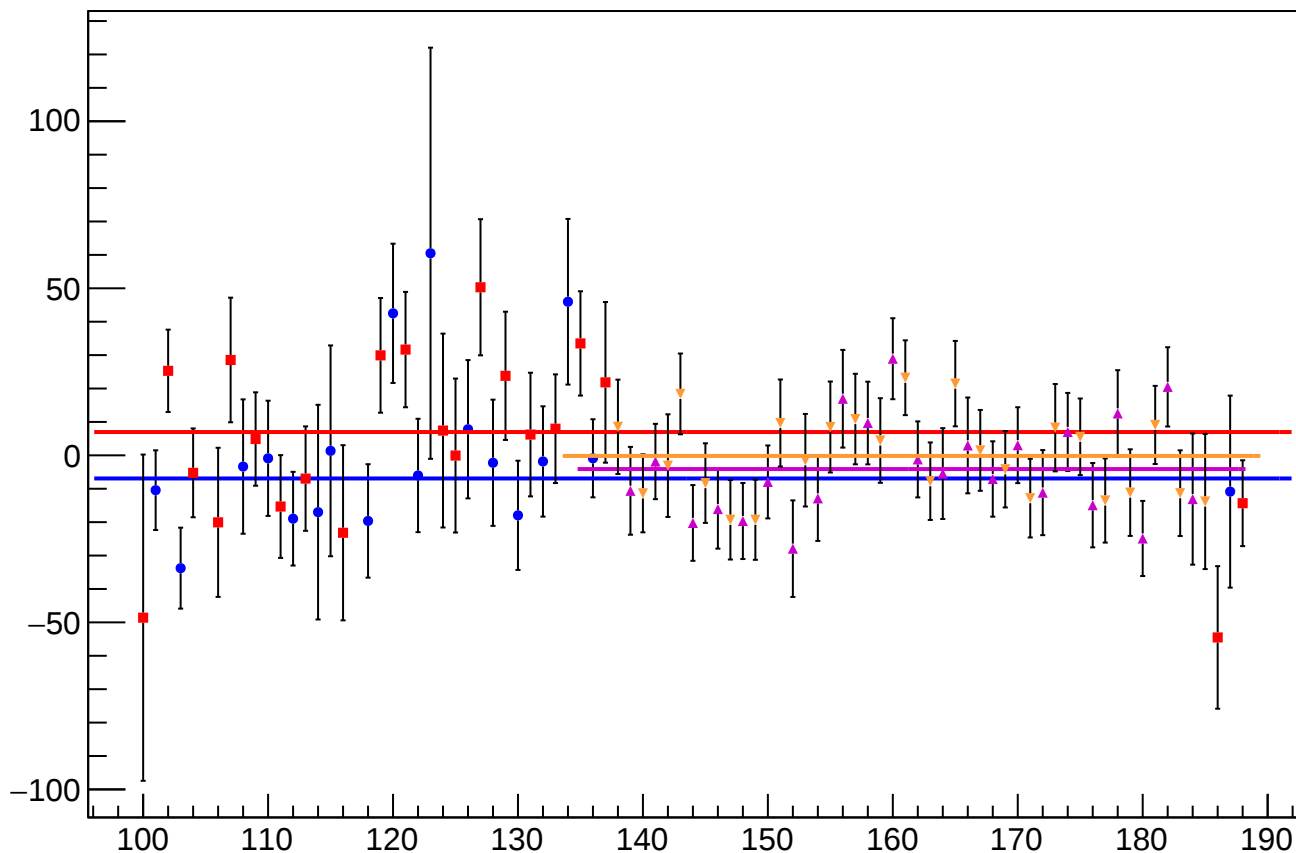
Right: 186.570 $\pm$ 0.036 χ^2 /NDF: 3047877.1/38

In: 182.642 $\pm$ 0.028 χ^2 /NDF: 2772956.9/40

Out: 191.571 $\pm$ 0.028 χ^2 /NDF: 3822206.9/45

All: 187.110 $\pm$ 0.019 χ^2 /NDF: 6647694.1/86

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.924 ± 4.119 χ^2/NDF : 19.4/17

Left Out: -0.170 ± 2.520 χ^2/NDF : 24.4/24

Right Out: 6.975 ± 3.830 χ^2/NDF : 34.9/20

Left In: -4.107 ± 2.577 χ^2/NDF : 31.5/22

Left: -2.095 ± 1.802 χ^2/NDF : 57.1/47

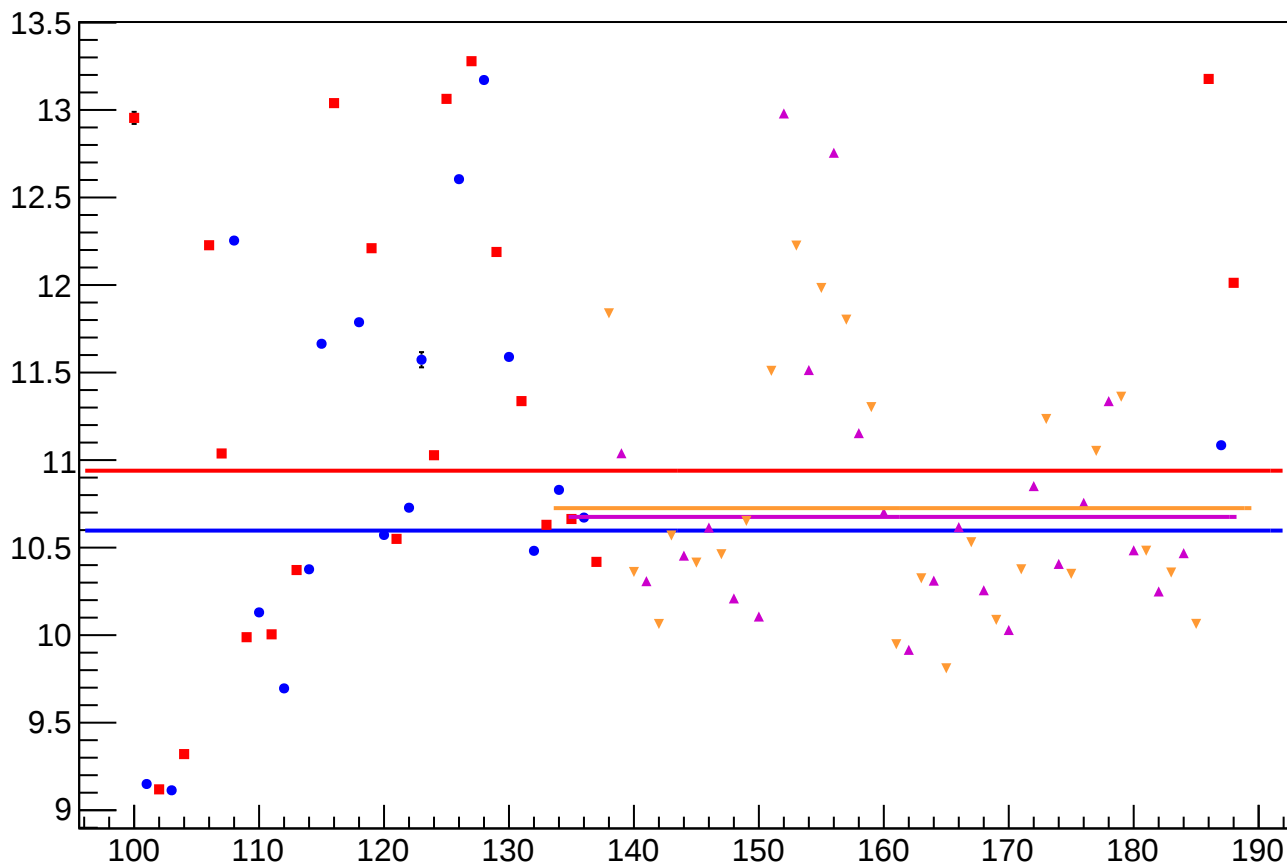
Right: 0.529 ± 2.805 χ^2/NDF : 60.4/38

In: -4.899 ± 2.185 χ^2/NDF : 51.3/40

Out: 1.989 ± 2.105 χ^2/NDF : 61.7/45

All: -1.328 ± 1.516 χ^2/NDF : 118.2/86

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.597 $\pm$ 0.003 χ^2 /NDF: 159810.6/17

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.939 $\pm$ 0.003 χ^2 /NDF: 218479.4/20

Left In: 10.675 $\pm$ 0.002 χ^2 /NDF:145938.2/22

Left: 10.701 $\pm$ 0.001 χ^2 /NDF: 278494.3/47

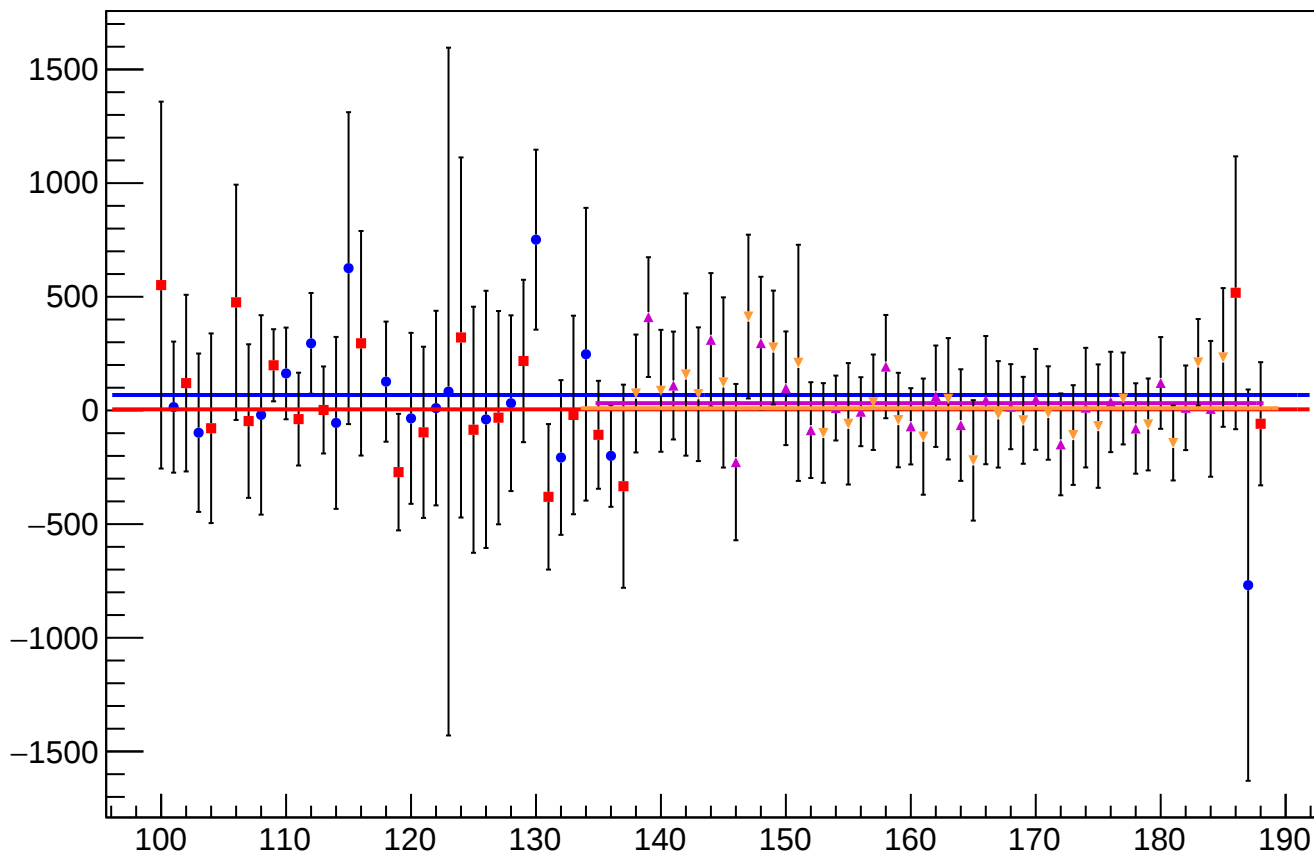
Right: 10.781 $\pm$ 0.002 χ^2 /NDF: 385689.6/38

In: 10.653 $\pm$ 0.002 χ^2 /NDF:306266.3/40

Out: 10.790 $\pm$ 0.001 χ^2 /NDF:355003.8/45

All: 10.724 $\pm$ 0.001 χ^2 /NDF: 665327.6/86

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 68.037 $\pm$ 80.232 χ^2 /NDF: 8.6/17

Left Out: 9.801 $\pm$ 47.979 χ^2 /NDF: 7.5/24

Right Out: 4.864 $\pm$ 68.143 χ^2 /NDF: 8.1/20

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

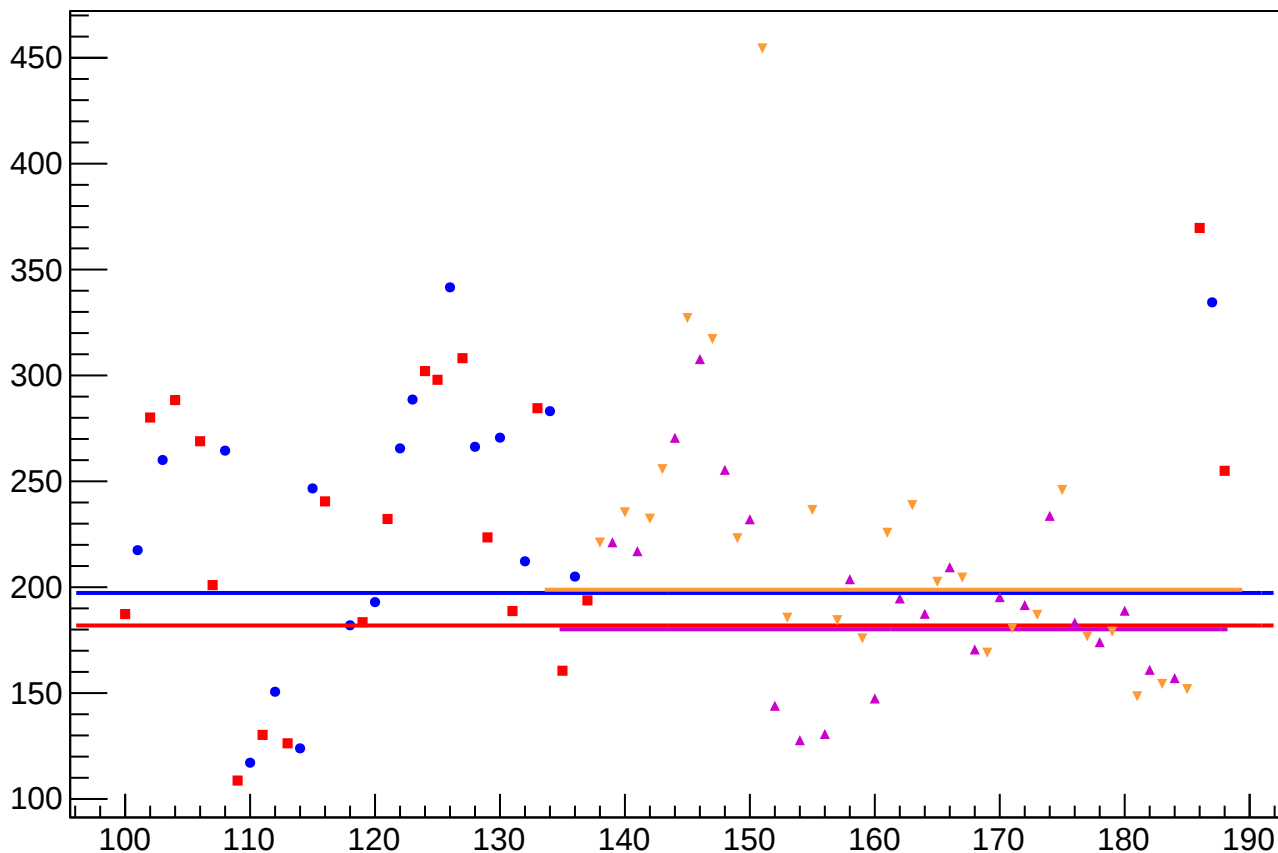
Right: 31.337 $\pm$ 51.938 χ^2 /NDF: 17.1/38

In: 40.626 $\pm$ 39.274 χ^2 /NDF: 15.9/40

Out: 8.165 $\pm$ 39.230 χ^2 /NDF: 15.7/45

All: 24.378 $\pm$ 27.755 χ^2 /NDF: 32.0/86

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.288 $\pm$ 0.057 χ^2 /NDF: 1032436.5/17

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 181.922 $\pm$ 0.048 χ^2 /NDF: 1888026.7/20

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

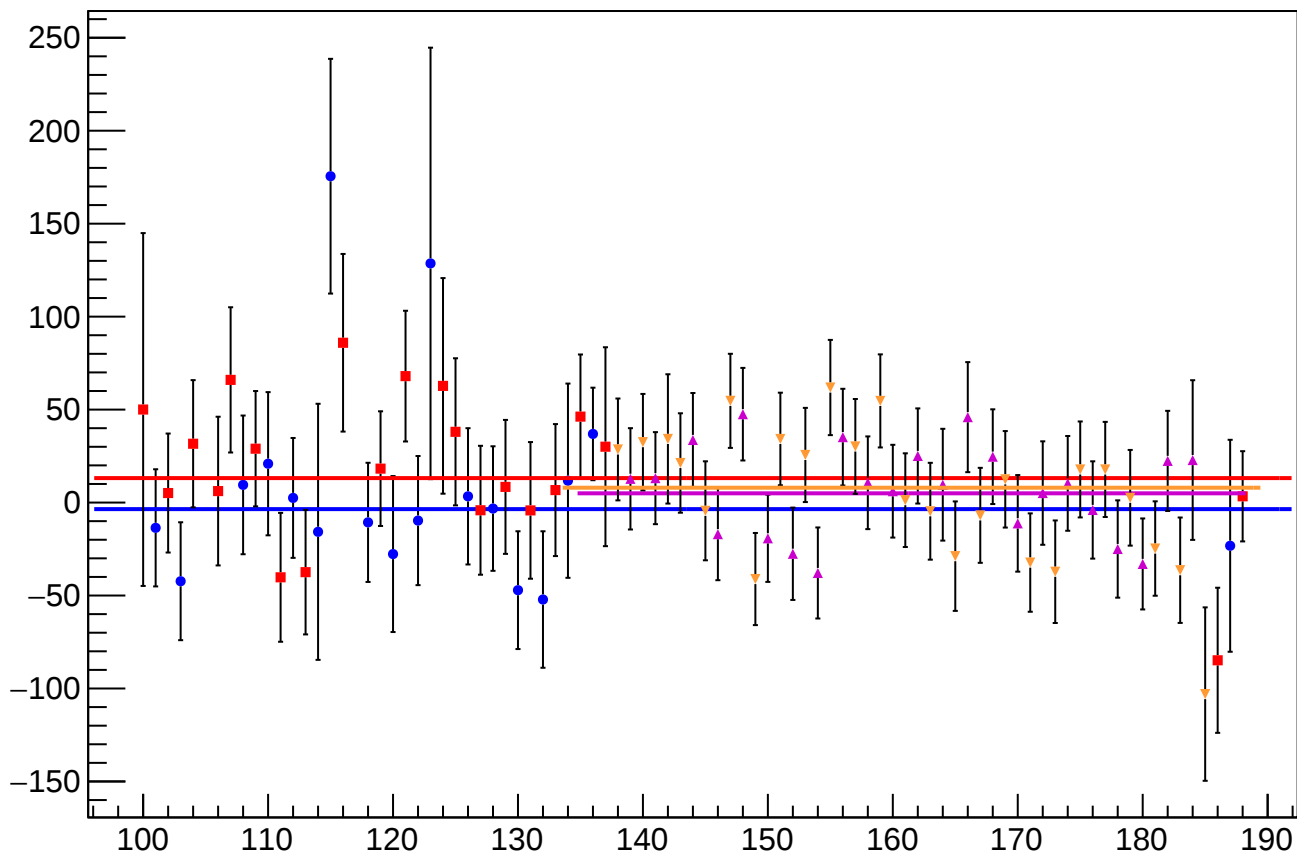
Right: 188.362 $\pm$ 0.037 χ^2 /NDF: 2963082.3/38

In: 184.236 $\pm$ 0.028 χ^2 /NDF:2695890.1/40

Out: 193.206 $\pm$ 0.028 χ^2 /NDF:3733176.5/45

All: 188.726 $\pm$ 0.020 χ^2 /NDF: 6481292.1/86

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.524 ± 8.794 χ^2/NDF : 18.5/17

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 13.160 ± 7.916 χ^2/NDF : 21.3/20

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

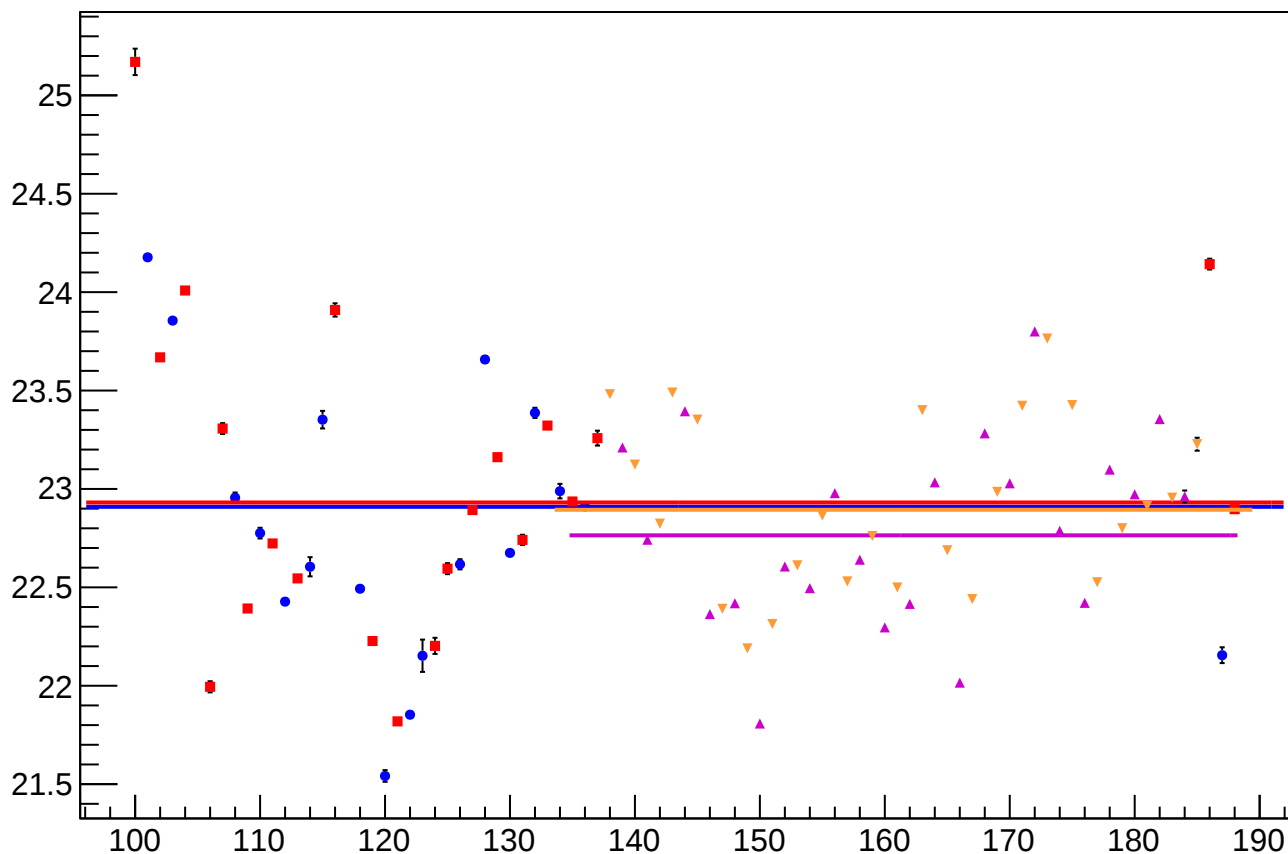
Right: 5.692 ± 5.884 χ^2/NDF : 41.7/38

In: 2.619 ± 4.629 χ^2/NDF : 39.6/40

Out: 9.601 ± 4.420 χ^2/NDF : 59.0/45

All: 6.272 ± 3.197 χ^2/NDF : 99.8/86

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.909 $\pm$ 0.006 χ^2 /NDF: 11959.4/17

Left Out: 22.894 $\pm$ 0.004 χ^2 /NDF: 13070.5/24

Right Out: 22.931 $\pm$ 0.006 χ^2 /NDF: 13109.2/20

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

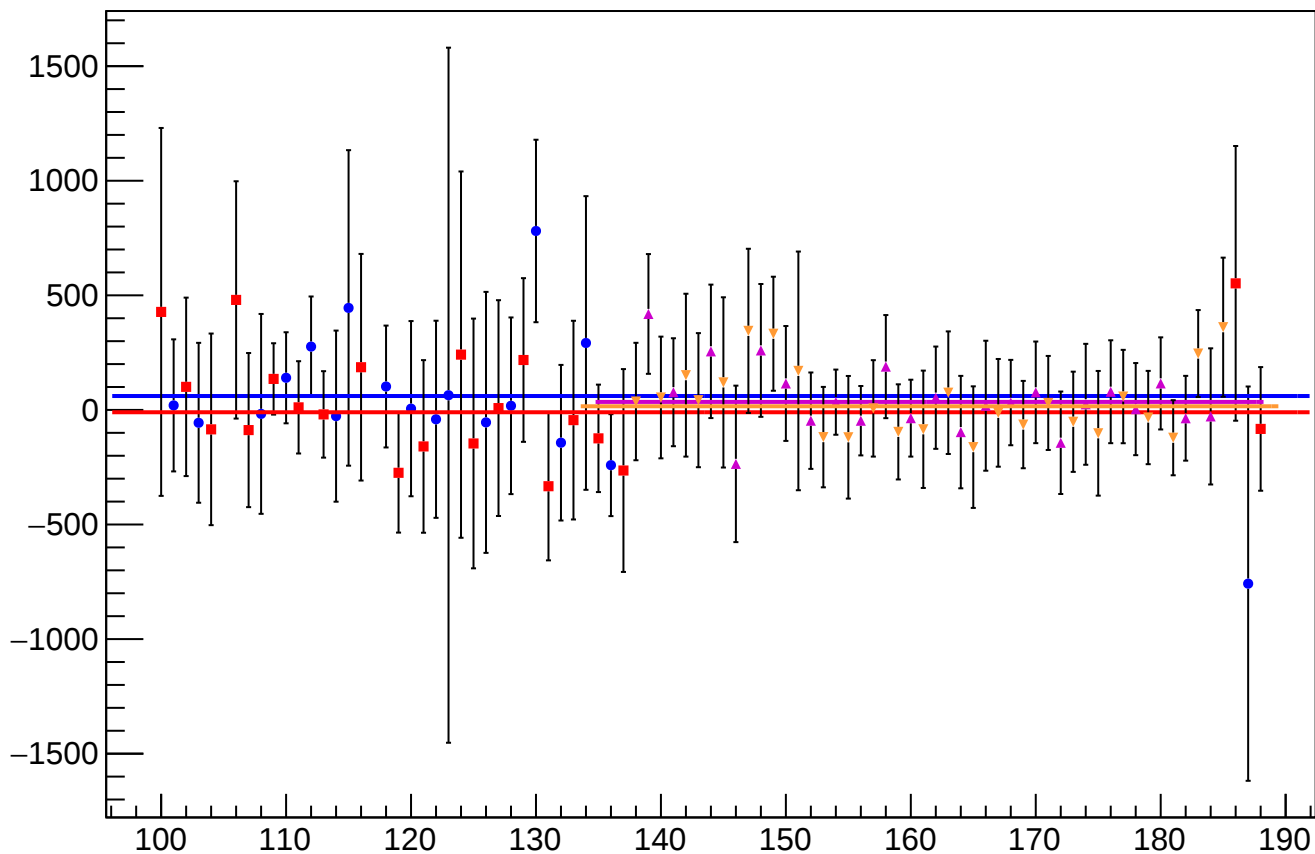
Right: 22.921 $\pm$ 0.004 χ^2 /NDF: 25075.5/38

In: 22.804 $\pm$ 0.003 χ^2 /NDF: 27018.0/40

Out: 22.906 $\pm$ 0.003 χ^2 /NDF: 26210.0/45

All: 22.857 $\pm$ 0.002 χ^2 /NDF: 53728.6/86

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 60.657+/-79.882 χ^2/NDF : 8.3/17

Left Out: 15.904+/-47.898 χ^2/NDF : 8.4/24

Right Out: -10.197+/-67.681 χ^2/NDF : 6.7/20

Left In: 34.919+/-44.971 χ^2/NDF : 6.6/22

Left: 26.010+/-32.785 χ^2/NDF : 15.1/47

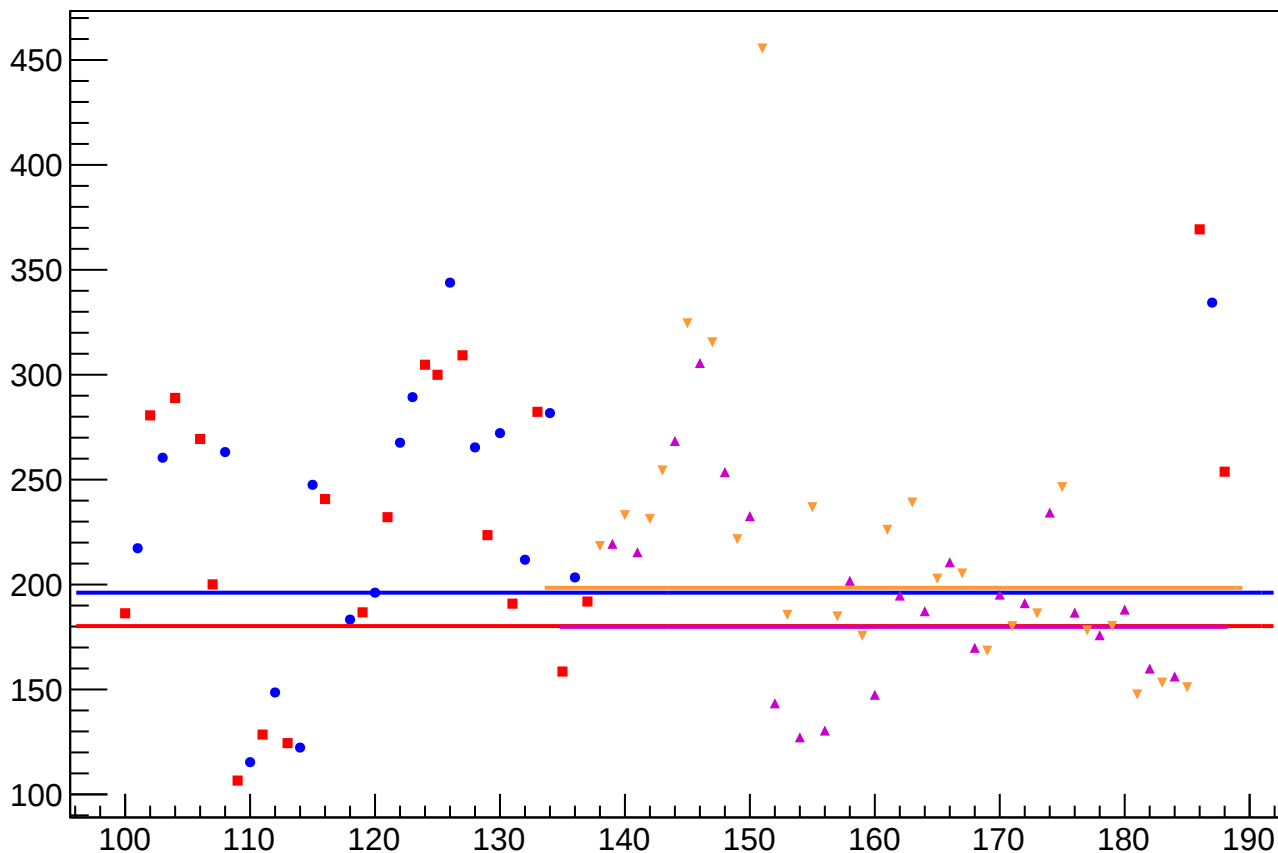
Right: 19.412+/-51.639 χ^2/NDF : 15.5/38

In: 41.113+/-39.188 χ^2/NDF : 15.0/40

Out: 7.194+/-39.098 χ^2/NDF : 15.2/45

All: 24.114+/-27.678 χ^2/NDF : 30.6/86

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.129 $\pm$ 0.056 χ^2 /NDF: 1073989.7/17

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF: 1761433.9/24

Right Out: 180.214 $\pm$ 0.048 χ^2 /NDF: 1962730.5/20

Left In: 179.839 $\pm$ 0.032 χ^2 /NDF: 1588834.3/22

Left: 188.558 $\pm$ 0.023 χ^2 /NDF: 3510745.5/47

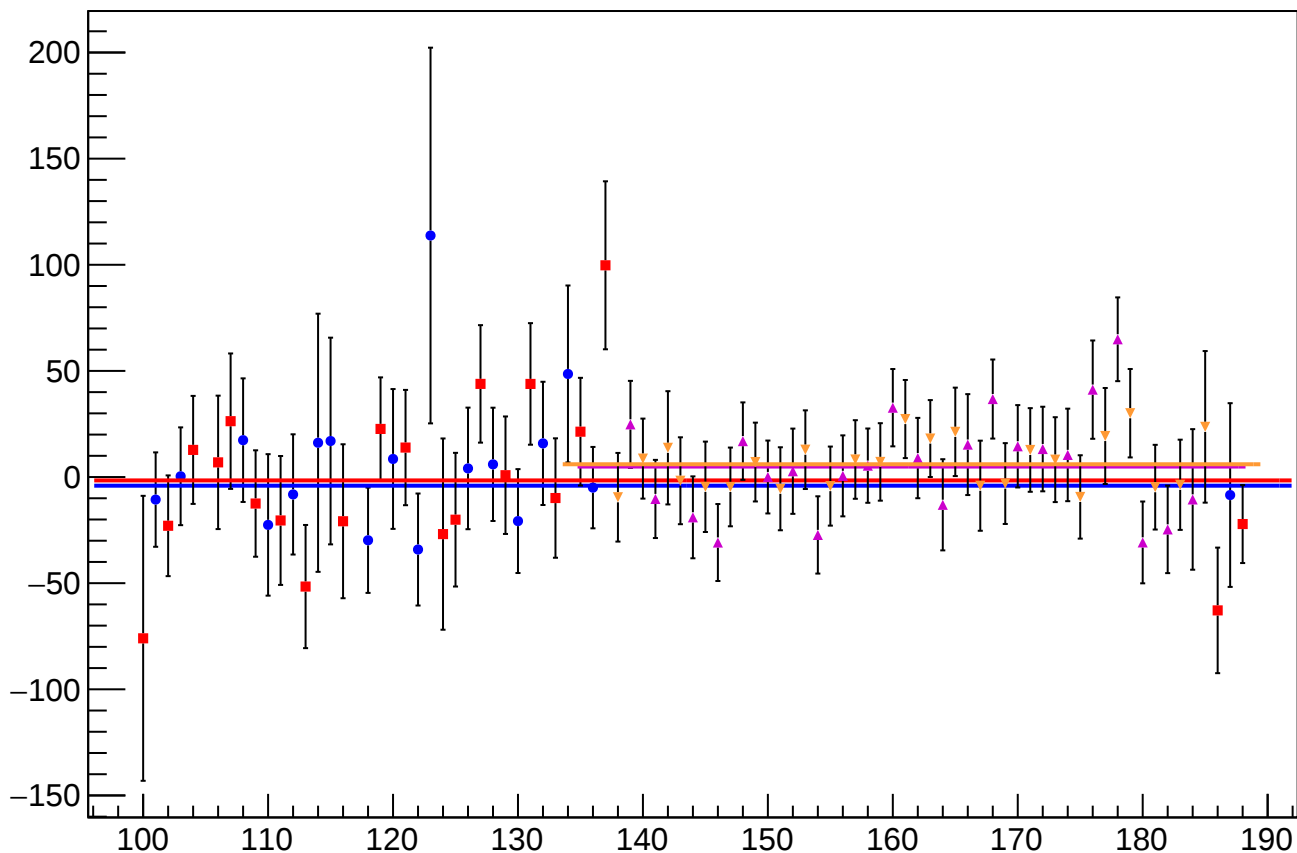
Right: 186.864 $\pm$ 0.037 χ^2 /NDF: 3082934.2/38

In: 183.759 $\pm$ 0.028 χ^2 /NDF: 2725979.0/40

Out: 192.364 $\pm$ 0.028 χ^2 /NDF: 3820907.5/45

All: 188.072 $\pm$ 0.020 χ^2 /NDF: 6595213.6/86

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.072 ± 6.844 χ^2/NDF : 8.4/17

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: -1.589 ± 6.189 χ^2/NDF : 27.2/20

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

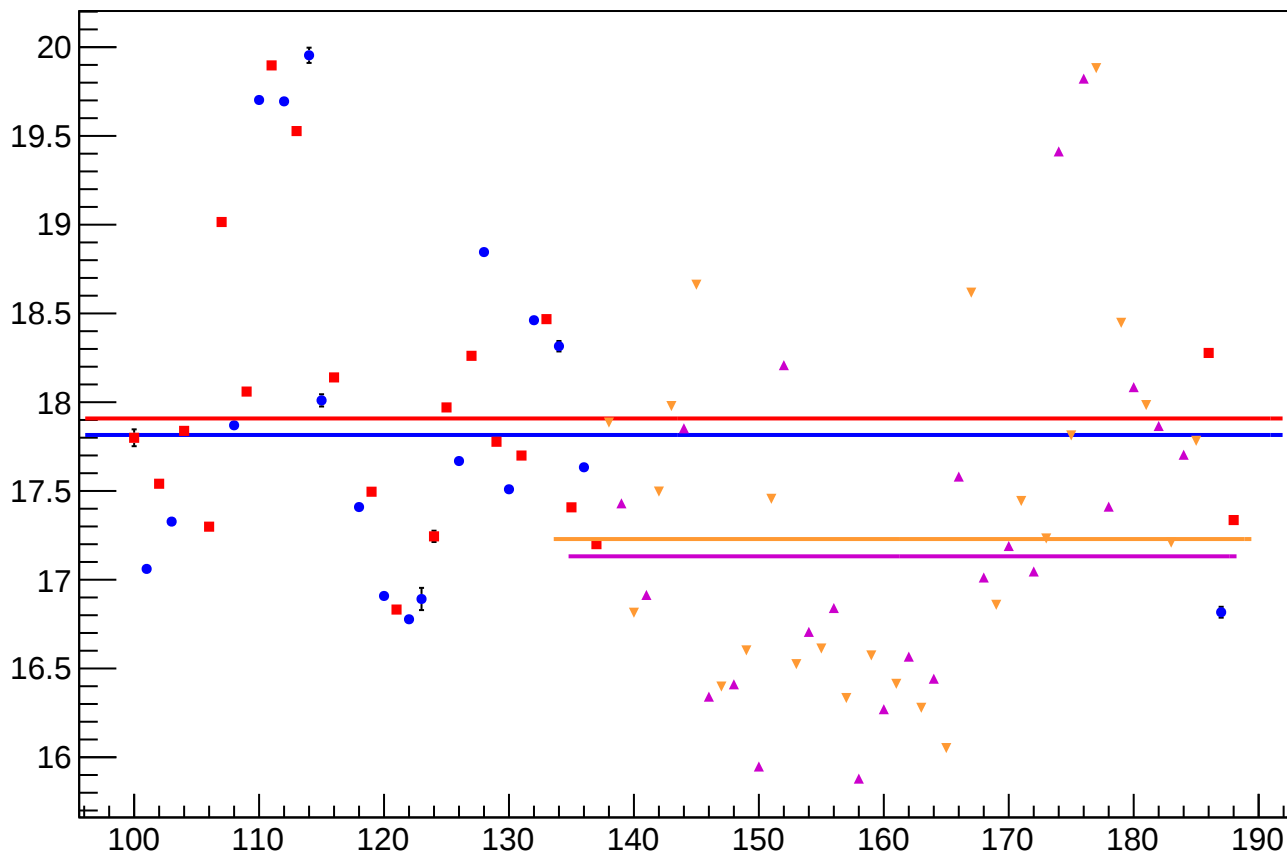
Right: -2.706 ± 4.591 χ^2/NDF : 35.7/38

In: 2.556 ± 3.522 χ^2/NDF : 44.5/40

Out: 3.765 ± 3.370 χ^2/NDF : 36.4/45

All: 3.187 ± 2.435 χ^2/NDF : 81.0/86

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.815+/-0.005 χ^2/NDF : 32168.9/17

Left Out: 17.229+/-0.003 χ^2/NDF : 98624.7/24

Right Out: 17.908+/-0.004 χ^2/NDF : 27721.1/20

Left In: 17.132+/-0.003 χ^2/NDF : 103997.3/22

Left: 17.182+/-0.002 χ^2/NDF : 203195.4/47

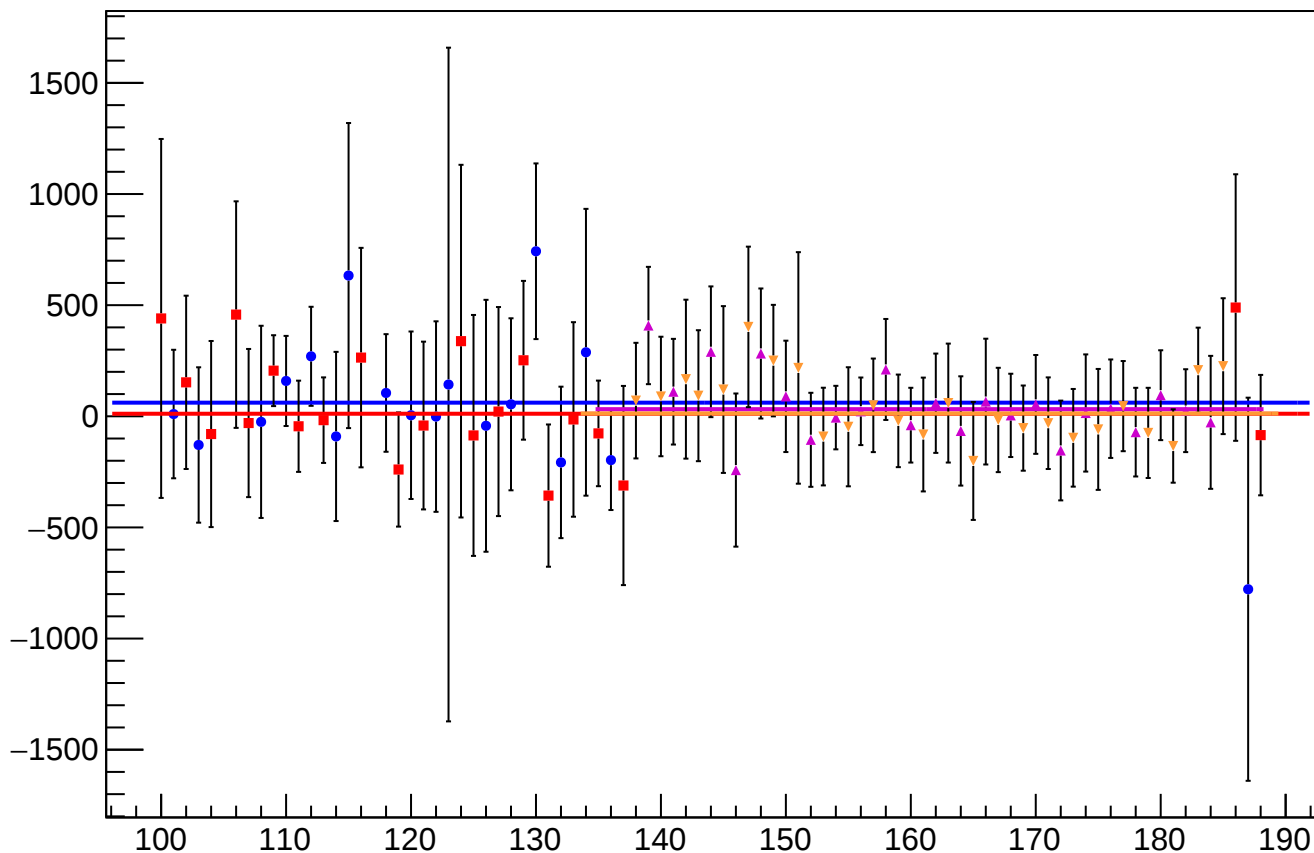
Right: 17.867+/-0.003 χ^2/NDF : 60093.0/38

In: 17.313+/-0.002 χ^2/NDF : 150834.5/40

Out: 17.430+/-0.002 χ^2/NDF : 143294.1/45

All: 17.374+/-0.002 χ^2/NDF : 295292.8/86

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 61.329 $\pm$ 80.430 χ^2 /NDF: 8.4/17

Left Out: 12.474 $\pm$ 48.086 χ^2 /NDF: 6.8/24

Right Out: 11.497 $\pm$ 68.282 χ^2 /NDF: 7.5/20

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

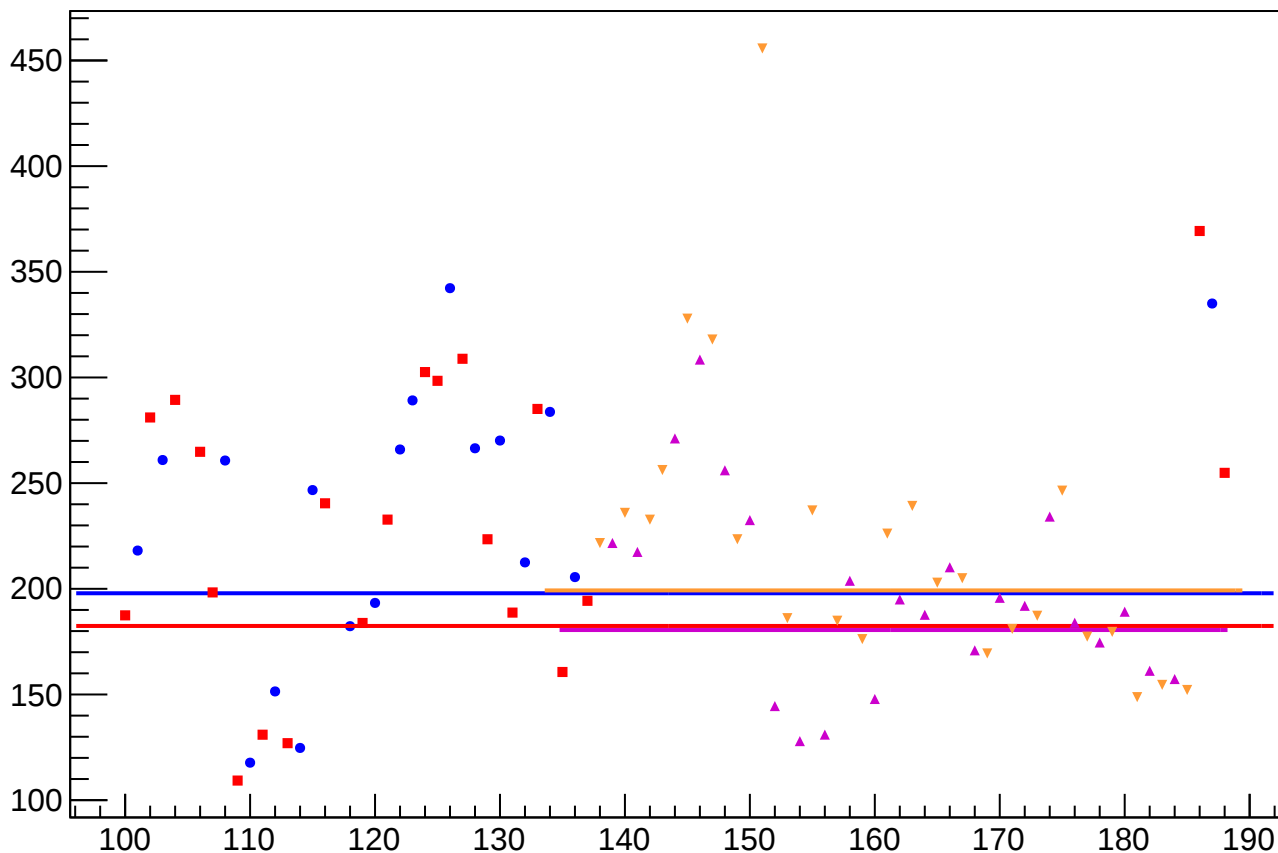
Right: 32.369 $\pm$ 52.053 χ^2 /NDF: 16.1/38

In: 39.144 $\pm$ 39.358 χ^2 /NDF: 15.5/40

Out: 12.150 $\pm$ 39.315 χ^2 /NDF: 14.3/45

All: 25.633 $\pm$ 27.815 χ^2 /NDF: 30.0/86

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.895 $\pm$ 0.057 χ^2 /NDF: 1017208.5/17

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 182.425 $\pm$ 0.048 χ^2 /NDF: 1866498.2/20

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

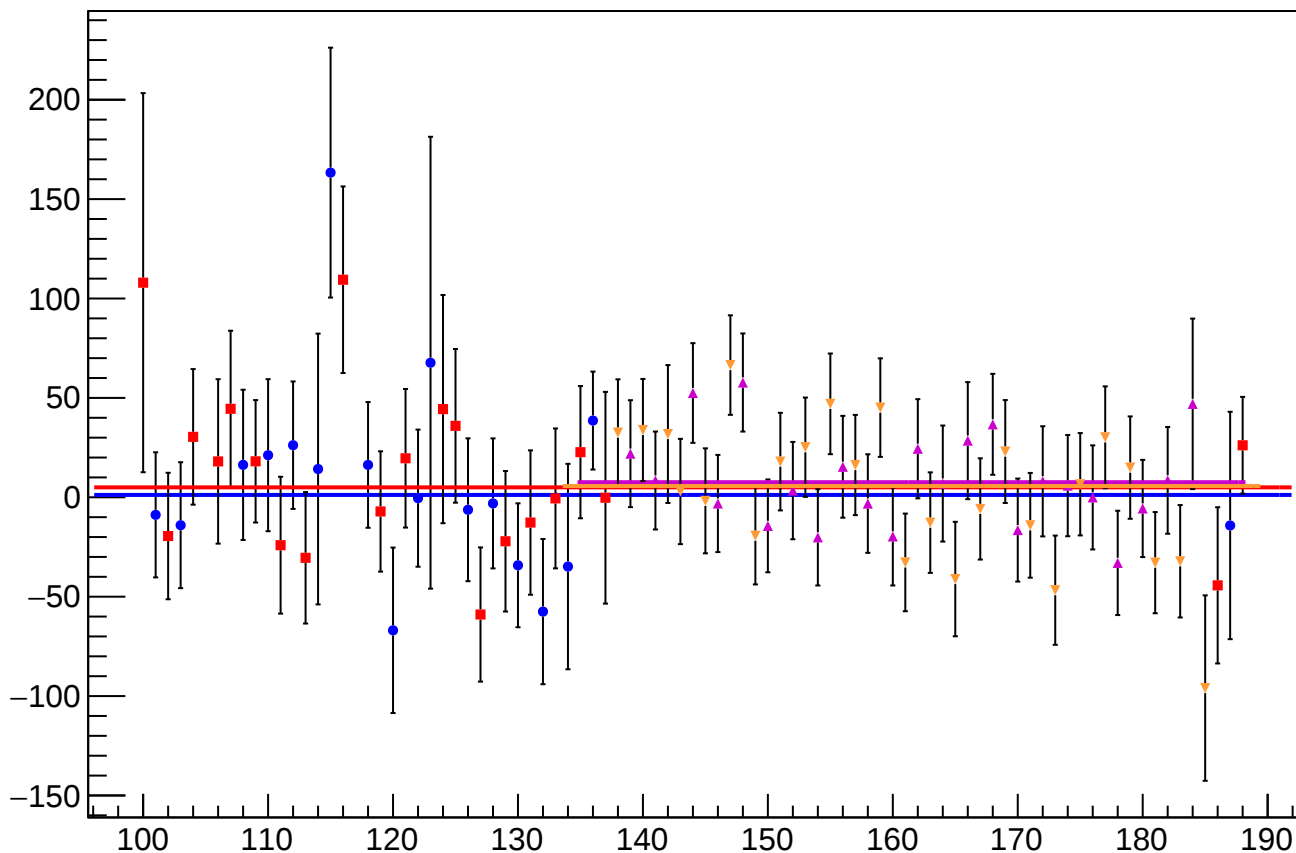
Right: 188.905 $\pm$ 0.037 χ^2 /NDF: 2926703.3/38

In: 184.661 $\pm$ 0.028 χ^2 /NDF:2682189.4/40

Out: 193.666 $\pm$ 0.028 χ^2 /NDF:3711683.8/45

All: 189.168 $\pm$ 0.020 χ^2 /NDF: 6446286.3/86

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.190 $\pm$ 8.722 χ^2 /NDF: 18.1/17

Left Out: 5.673 $\pm$ 5.278 χ^2 /NDF:36.4/24

Right Out: 5.006 $\pm$ 7.861 χ^2 /NDF: 18.9/20

Left In: 7.594 $\pm$ 5.402 χ^2 /NDF:18.3/22

Left: 6.611 $\pm$ 3.775 χ^2 /NDF: 54.8/47

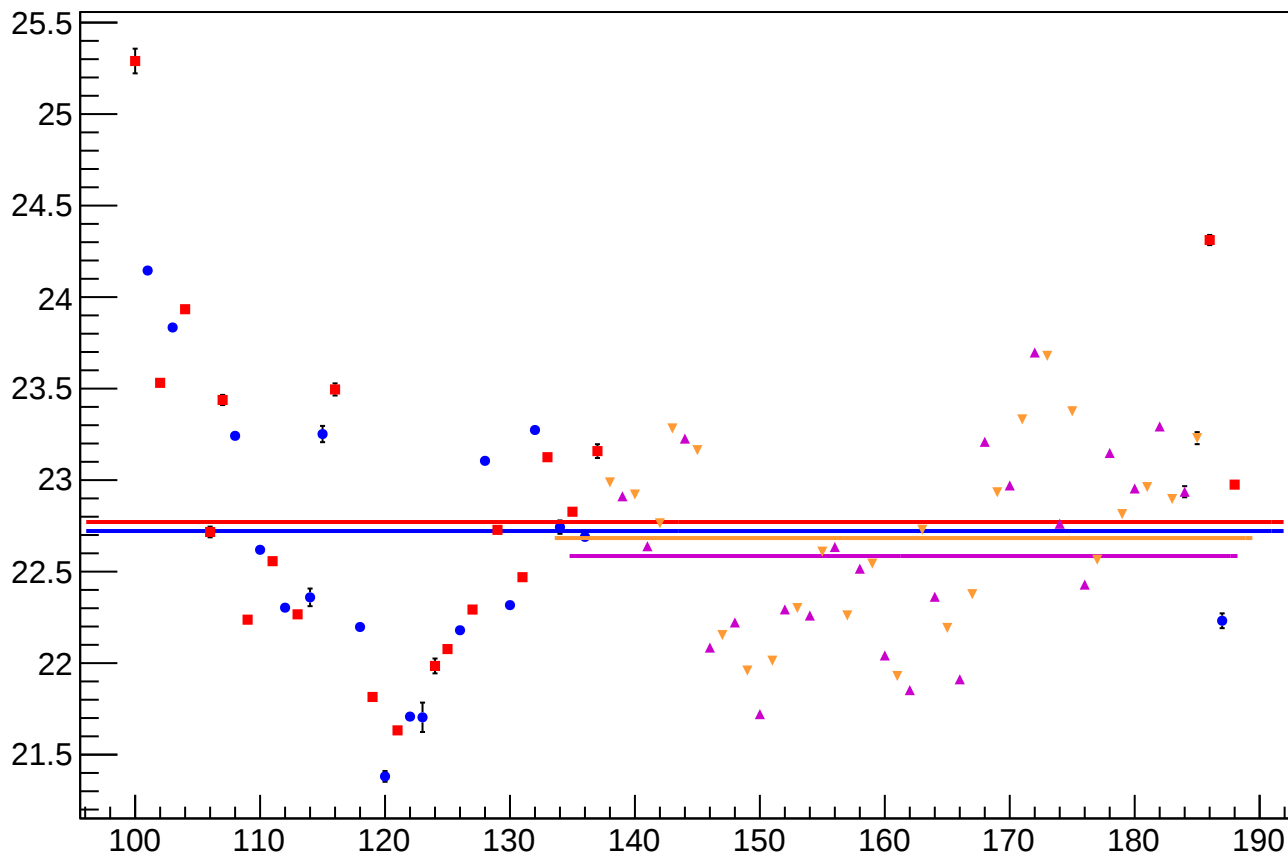
Right: 3.296 $\pm$ 5.839 χ^2 /NDF: 37.2/38

In: 5.819 $\pm$ 4.592 χ^2 /NDF:36.8/40

Out: 5.466 $\pm$ 4.382 χ^2 /NDF:55.3/45

All: 5.634 $\pm$ 3.170 χ^2 /NDF: 92.2/86

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.722 $\pm$ 0.006 χ^2 /NDF: 13680.7/17

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF: 16318.1/24

Right Out: 22.771 $\pm$ 0.006 χ^2 /NDF: 16284.1/20

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

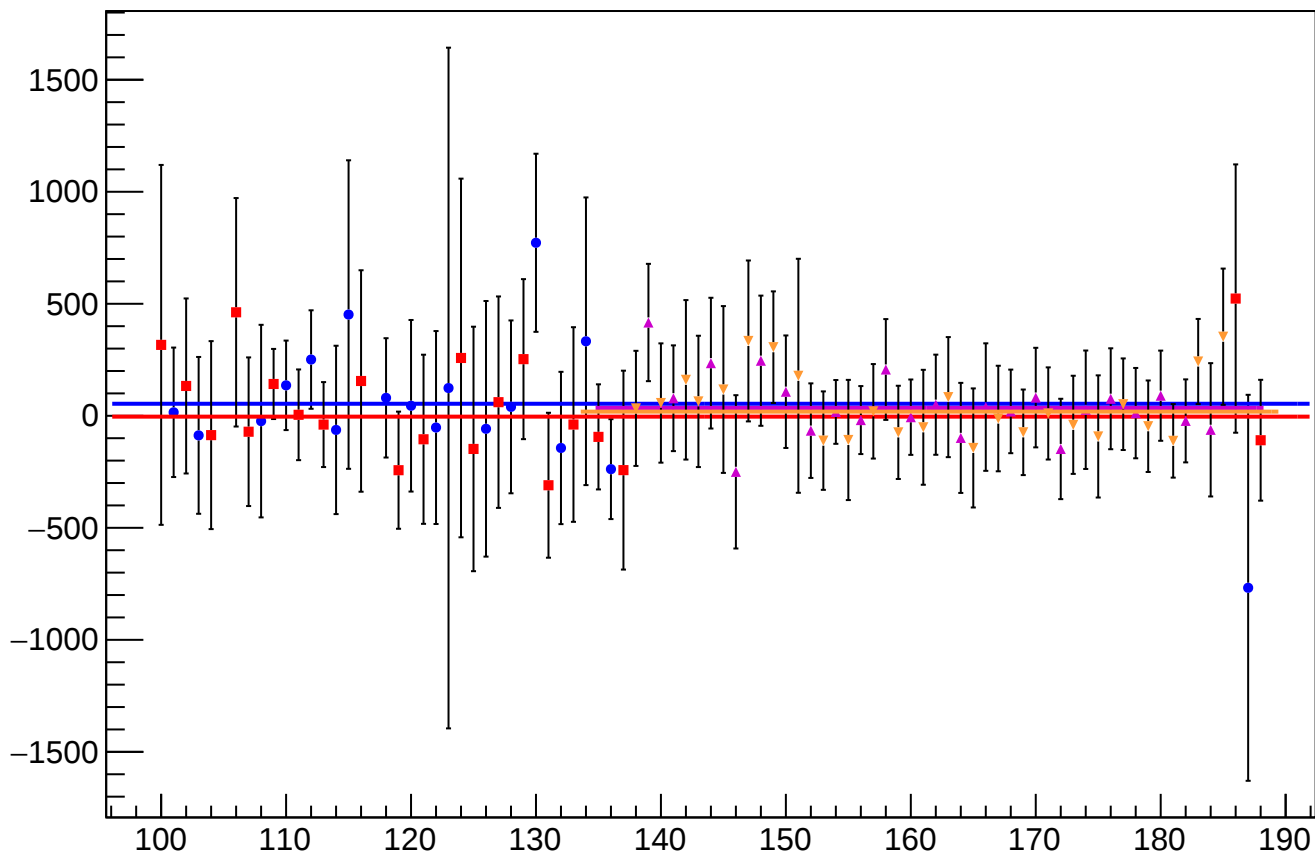
Right: 22.749 $\pm$ 0.004 χ^2 /NDF: 30000.0/38

In: 22.623 $\pm$ 0.003 χ^2 /NDF: 32123.0/40

Out: 22.711 $\pm$ 0.003 χ^2 /NDF: 32773.6/45

All: 22.669 $\pm$ 0.002 χ^2 /NDF: 65277.1/86

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 53.767 $\pm$ 80.083 χ^2 /NDF: 8.1/17

Left Out: 18.633 $\pm$ 48.006 χ^2 /NDF: 7.6/24

Right Out: -3.737 $\pm$ 67.824 χ^2 /NDF: 6.1/20

Left In: 35.046 $\pm$ 45.063 χ^2 /NDF: 6.3/22

Left: 27.358 $\pm$ 32.855 χ^2 /NDF: 13.9/47

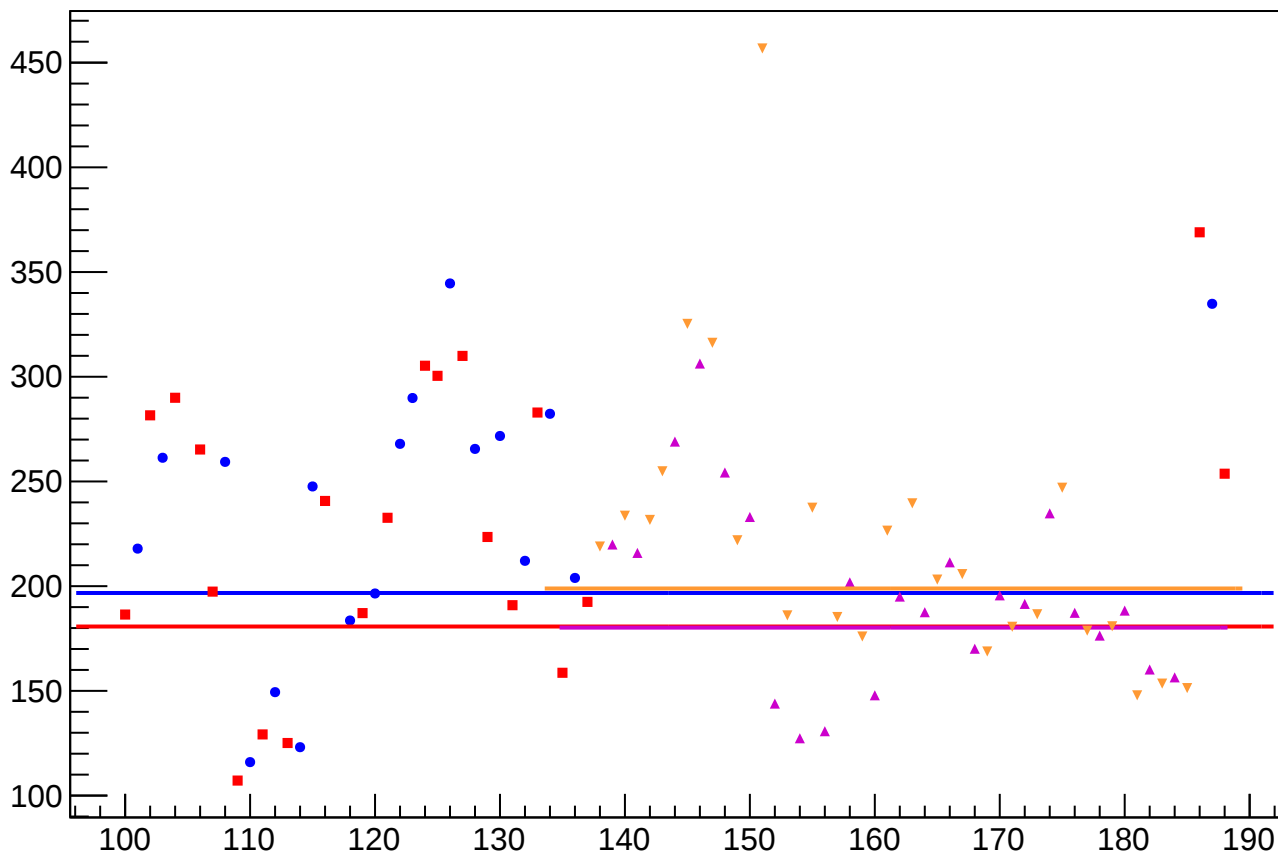
Right: 20.282 $\pm$ 51.756 χ^2 /NDF: 14.5/38

In: 39.548 $\pm$ 39.272 χ^2 /NDF: 14.5/40

Out: 11.166 $\pm$ 39.184 χ^2 /NDF: 13.8/45

All: 25.325 $\pm$ 27.738 χ^2 /NDF: 28.5/86

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.747 ± 0.057 $\chi^2/\text{NDF}: 1058045.3/17$

Left Out: 198.891 ± 0.034 $\chi^2/\text{NDF}: 1762454.6/24$

Right Out: 180.733 ± 0.048 $\chi^2/\text{NDF}: 1940174.1/20$

Left In: 180.207 ± 0.032 $\chi^2/\text{NDF}: 1589005.4/22$

Left: 188.959 ± 0.023 $\chi^2/\text{NDF}: 3512499.2/47$

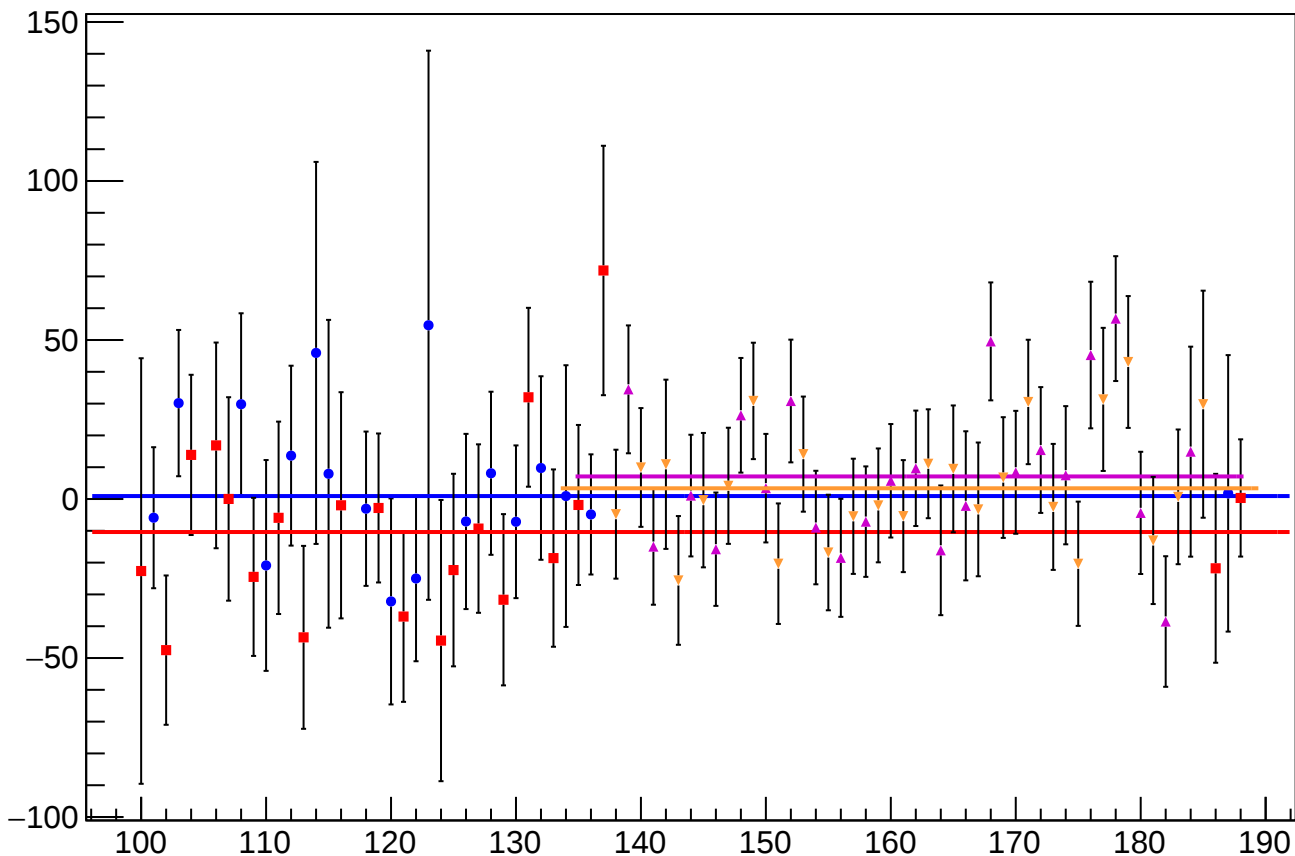
Right: 187.422 ± 0.037 $\chi^2/\text{NDF}: 3044791.5/38$

In: 184.185 ± 0.028 $\chi^2/\text{NDF}: 2711847.4/40$

Out: 192.830 ± 0.028 $\chi^2/\text{NDF}: 3798131.2/45$

All: 188.517 ± 0.020 $\chi^2/\text{NDF}: 6558547.9/86$

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.930 ± 6.747 $\chi^2/\text{NDF}: 6.9/17$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: -10.379 ± 6.116 $\chi^2/\text{NDF}: 15.8/20$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

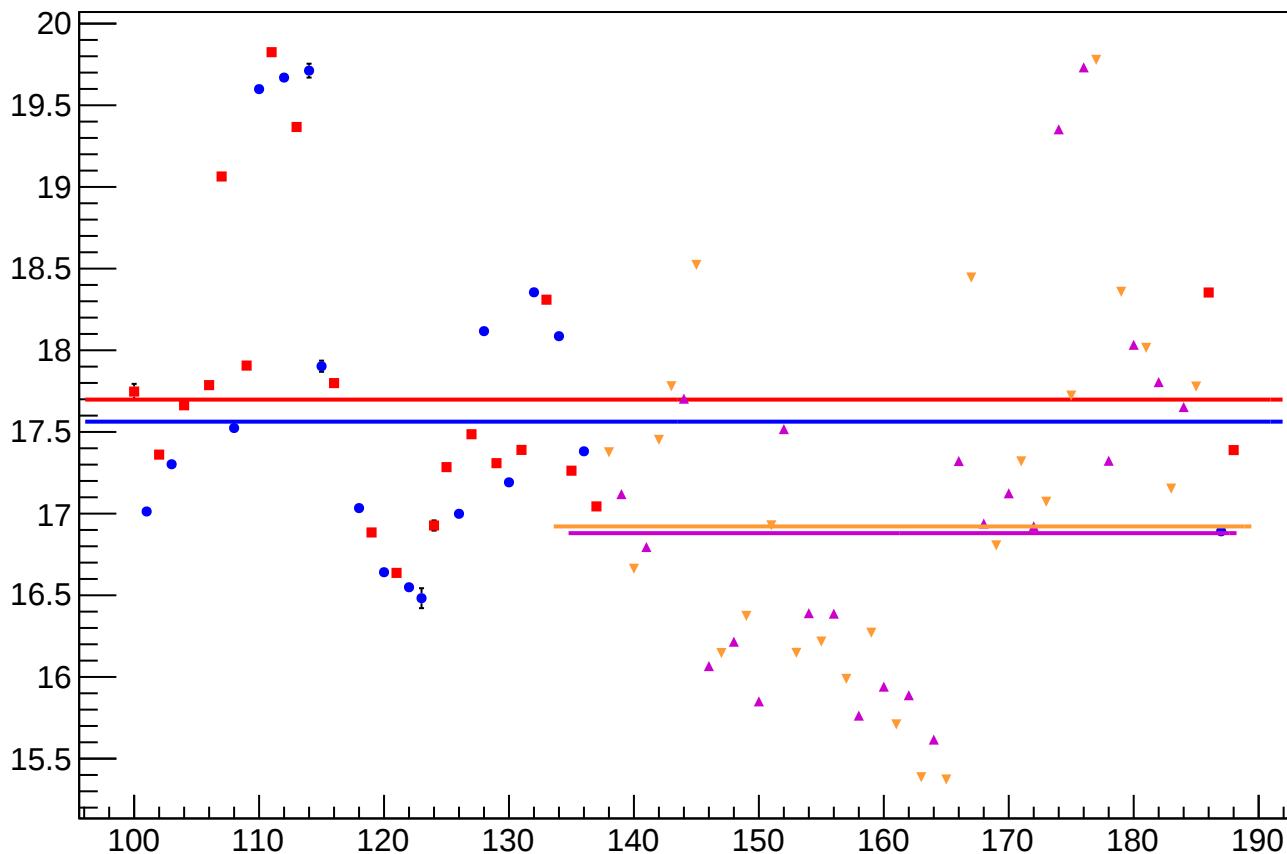
Right: -5.278 ± 4.531 $\chi^2/\text{NDF}: 24.2/38$

In: 5.466 ± 3.471 $\chi^2/\text{NDF}: 40.0/40$

Out: -0.671 ± 3.316 $\chi^2/\text{NDF}: 38.2/45$

All: 2.258 ± 2.398 $\chi^2/\text{NDF}: 79.8/86$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.563 $\pm$ 0.005 χ^2 /NDF: 33450.7/17

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.698 $\pm$ 0.004 χ^2 /NDF: 31816.1/20

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

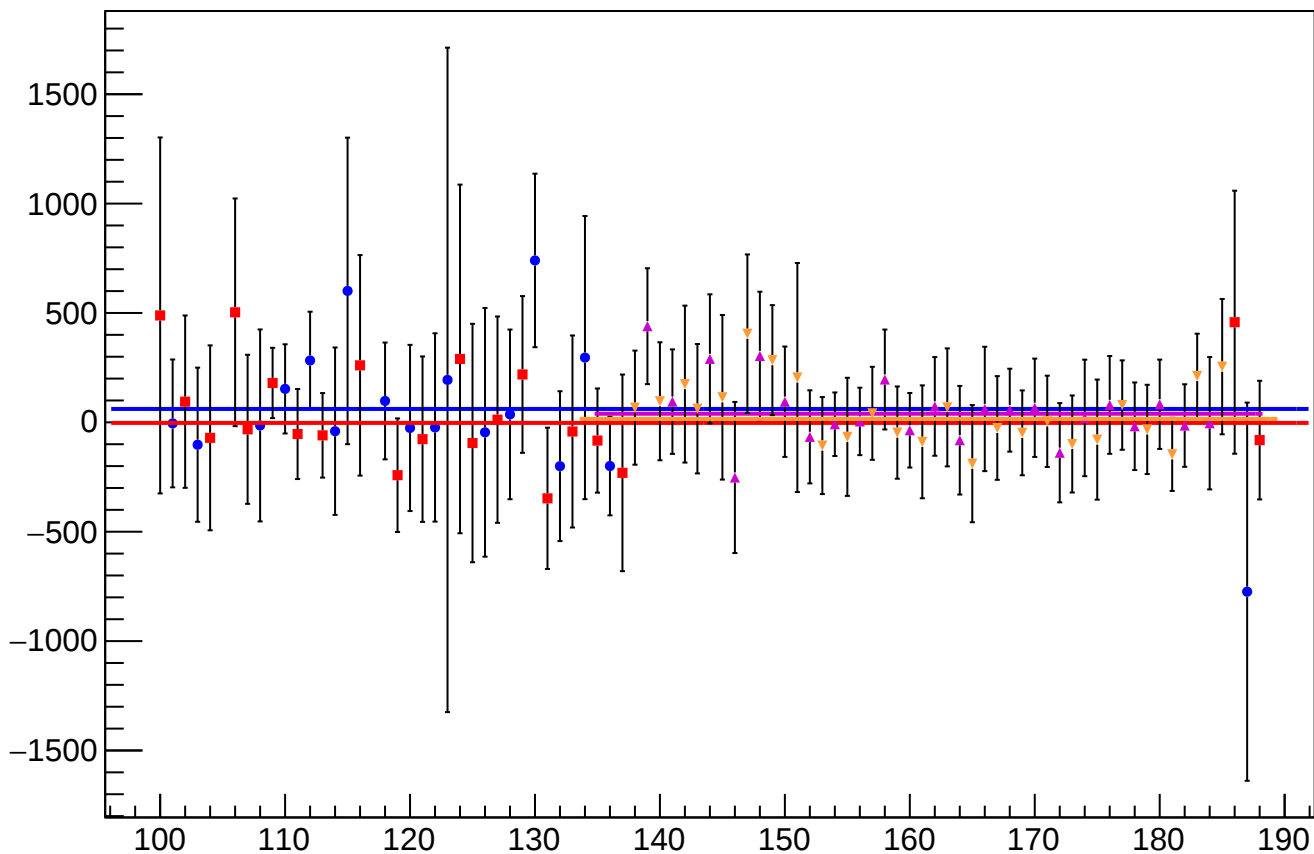
Right: 17.637 $\pm$ 0.003 χ^2 /NDF: 65706.9/38

In: 17.061 $\pm$ 0.002 χ^2 /NDF:170241.4/40

Out: 17.150 $\pm$ 0.002 χ^2 /NDF:193574.7/45

All: 17.107 $\pm$ 0.002 χ^2 /NDF: 364499.1/86

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 61.244 $\pm$ 80.899 χ^2 /NDF: 8.2/17

Left Out: 15.970 $\pm$ 48.503 χ^2 /NDF: 7.4/24

Right Out: -2.571 $\pm$ 68.731 χ^2 /NDF: 6.7/20

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

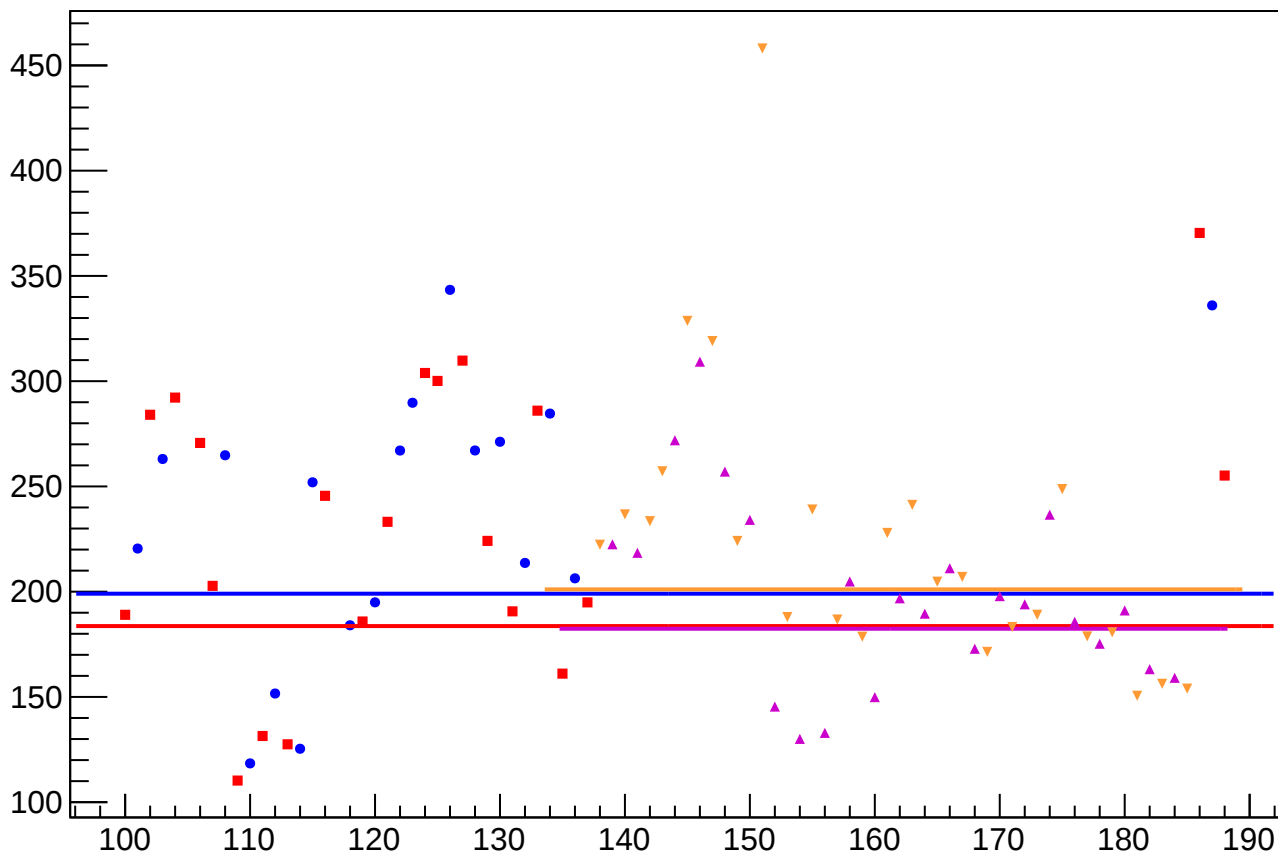
Right: 24.181 $\pm$ 52.379 χ^2 /NDF: 15.3/38

In: 44.644 $\pm$ 39.705 χ^2 /NDF: 15.2/40

Out: 9.806 $\pm$ 39.629 χ^2 /NDF: 14.2/45

All: 27.192 $\pm$ 28.049 χ^2 /NDF: 29.7/86

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 199.042 $\pm$ 0.057 χ^2 /NDF: 1021730.2/17

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 183.659 $\pm$ 0.049 χ^2 /NDF: 1869655.3/20

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

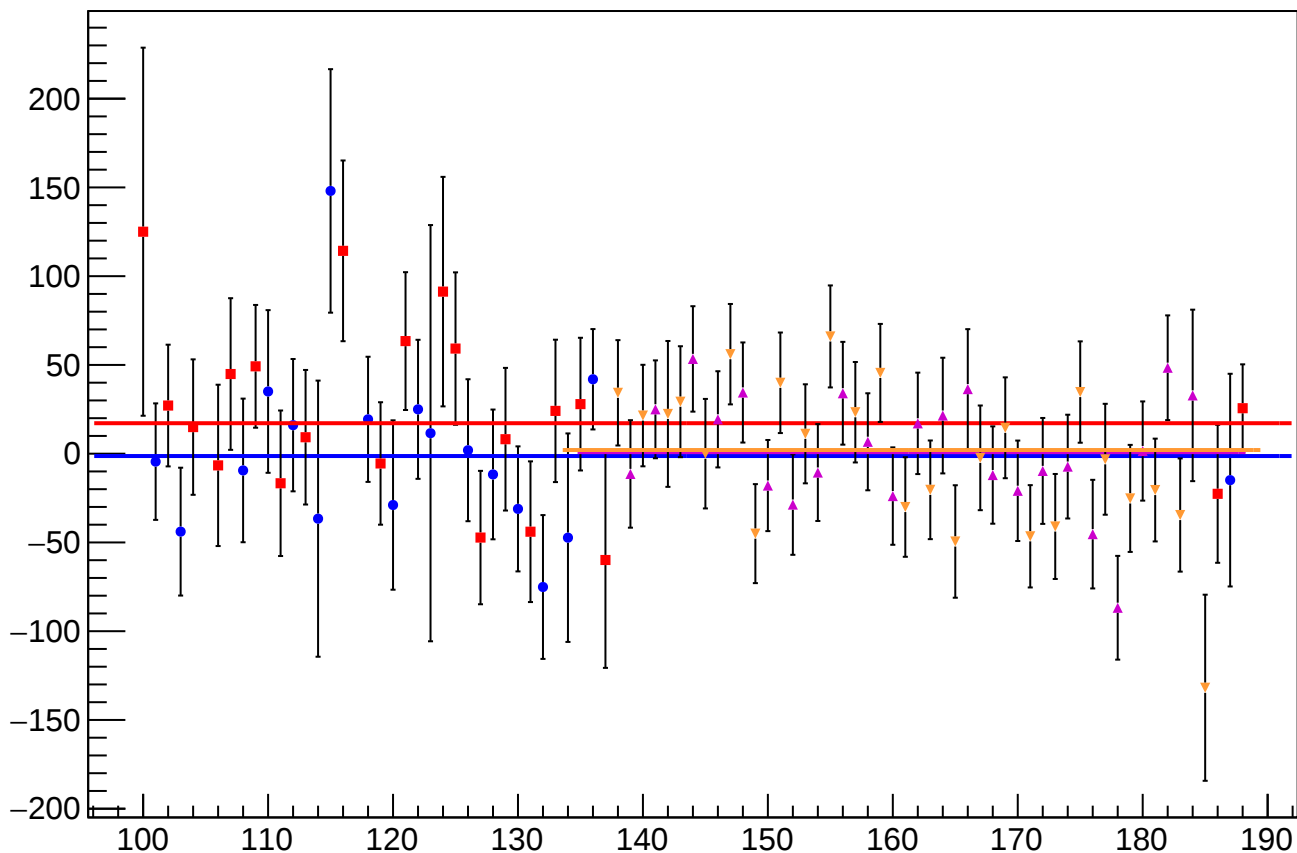
Right: 190.108 $\pm$ 0.037 χ^2 /NDF: 2933384.3/38

In: 186.406 $\pm$ 0.028 χ^2 /NDF:2634917.4/40

Out: 195.296 $\pm$ 0.028 χ^2 /NDF:3686607.3/45

All: 190.859 $\pm$ 0.020 χ^2 /NDF: 6371754.6/86

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.324 ± 9.777 χ^2/NDF : 15.5/17

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 17.171 ± 8.660 χ^2/NDF : 19.5/20

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

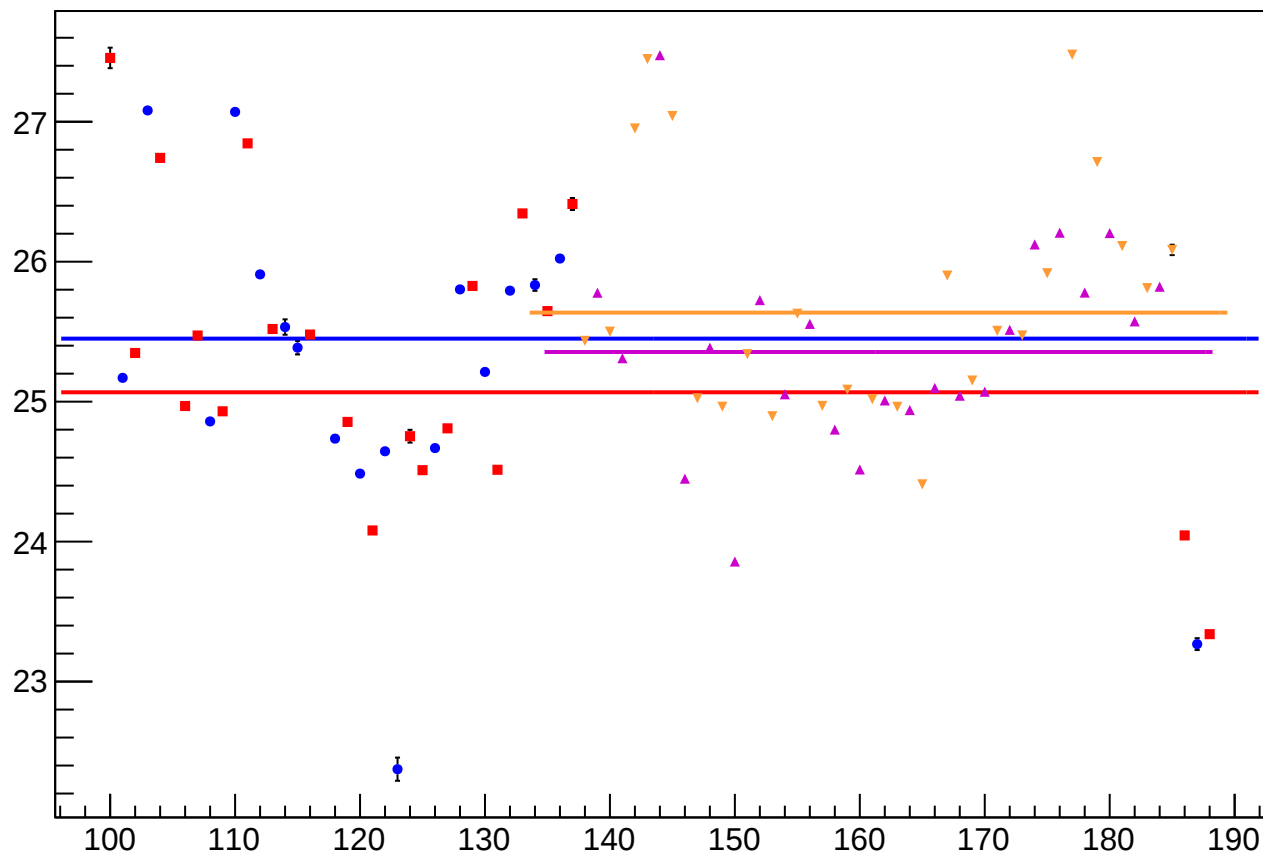
Right: 9.040 ± 6.483 χ^2/NDF : 37.0/38

In: 0.282 ± 5.157 χ^2/NDF : 42.6/40

Out: 6.924 ± 4.915 χ^2/NDF : 61.0/45

All: 3.762 ± 3.558 χ^2/NDF : 104.5/86

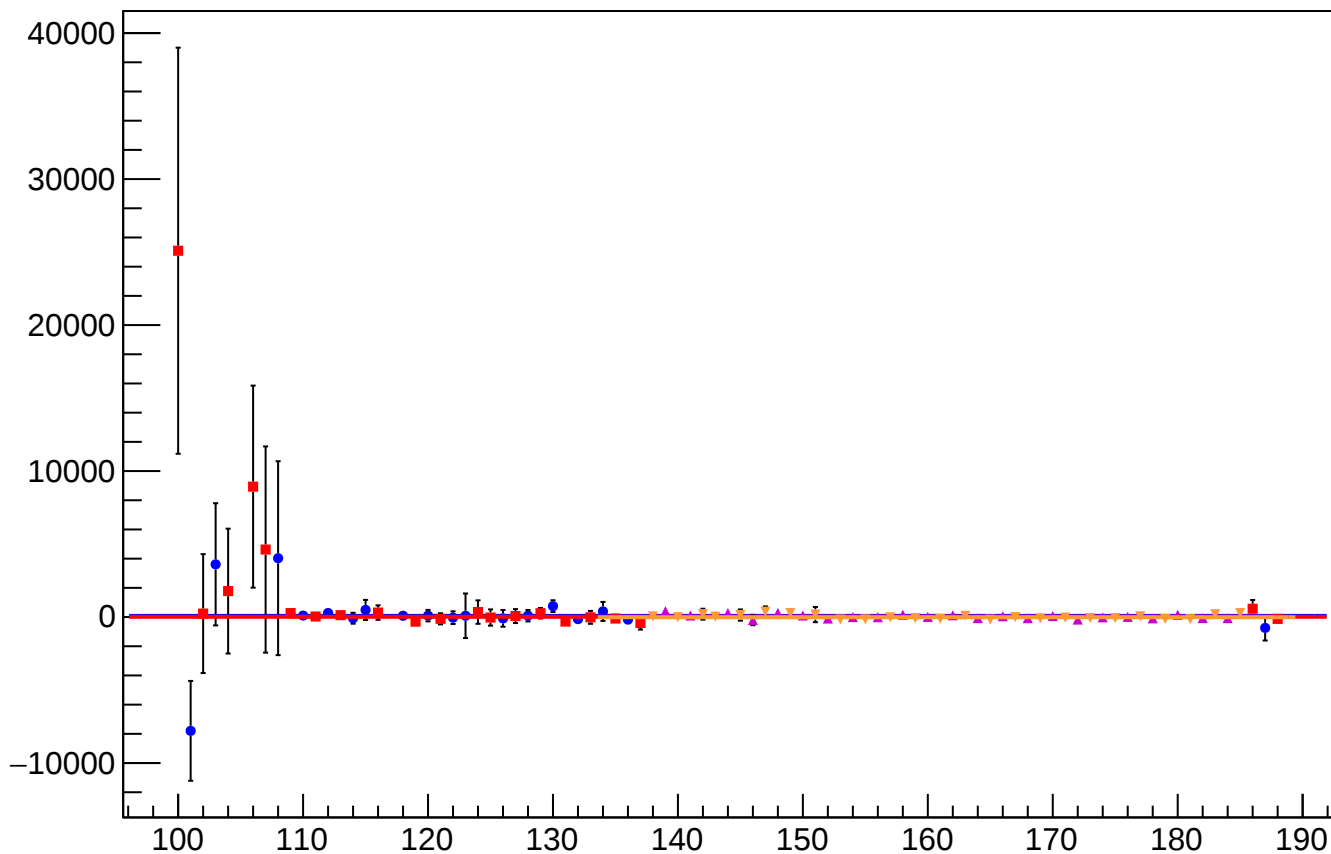
asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.450+/-0.007 χ^2/NDF : 16085.2/17
 Left Out: 25.636+/-0.004 χ^2/NDF : 35130.7/24
 Right Out: 25.067+/-0.006 χ^2/NDF : 27054.9/20
 Left In: 25.355+/-0.004 χ^2/NDF : 29766.2/22

Left: 25.498+/-0.003 χ^2/NDF : 67081.3/47
 Right: 25.235+/-0.005 χ^2/NDF : 44863.6/38
 In: 25.381+/-0.004 χ^2/NDF : 45989.3/40
 Out: 25.453+/-0.003 χ^2/NDF : 68042.1/45
 All: 25.419+/-0.003 χ^2/NDF : 114232.3/86

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 79.382+/-88.269 χ^2/NDF : 13.5/17

Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24

Right Out: 17.105+/-76.951 χ^2/NDF : 13.1/20

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

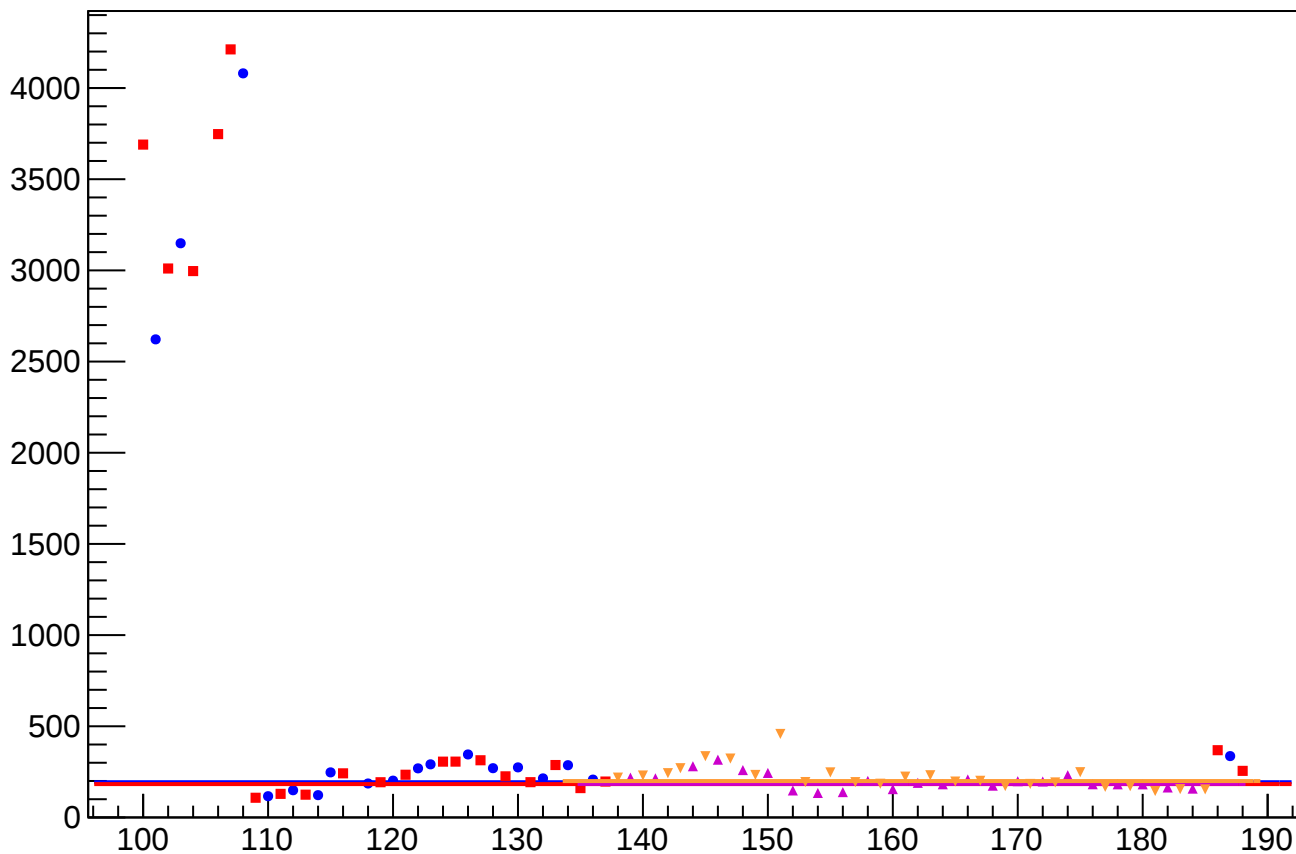
Right: 43.997+/-58.004 χ^2/NDF : 26.9/38

In: 38.011+/-40.706 χ^2/NDF : 21.2/40

Out: -4.383+/-40.858 χ^2/NDF : 21.1/45

All: 16.893+/-28.837 χ^2/NDF : 42.9/86

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.217+/-0.062 χ^2/NDF : 3631257.0/17

Left Out: 199.536+/-0.034 χ^2/NDF : 1880548.8/24

Right Out: 182.944+/-0.054 χ^2/NDF : 4566787.2/20

Left In: 184.031+/-0.032 χ^2/NDF : 1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

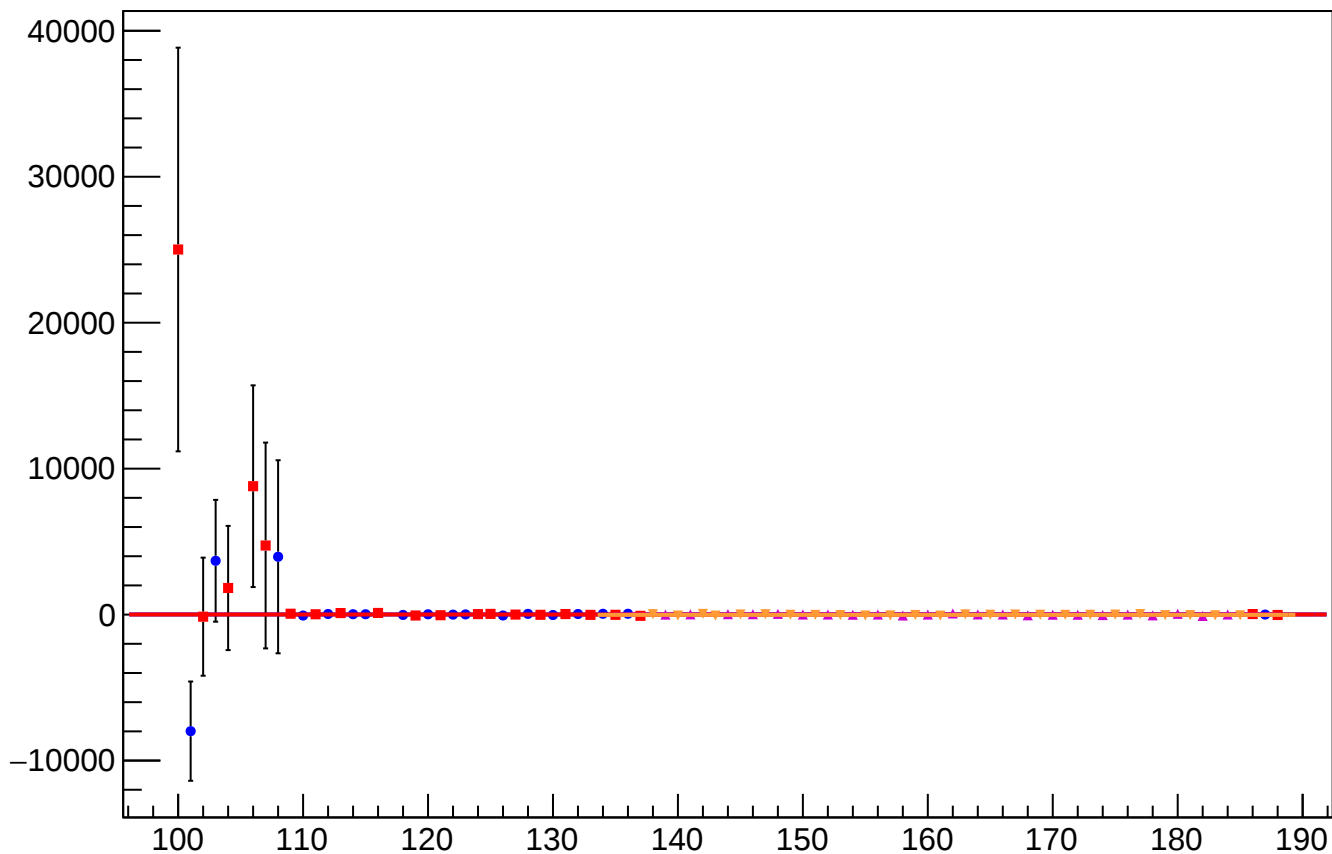
Right: 187.380+/-0.041 χ^2/NDF : 8213434.3/38

In: 185.985+/-0.029 χ^2/NDF : 5071761.7/40

Out: 194.858+/-0.029 χ^2/NDF : 6514098.6/45

All: 190.405+/-0.020 χ^2/NDF : 11633198.6/86

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.489+/-12.158 χ^2/NDF : 19.0/17

Left Out: -17.580+/-6.694 χ^2/NDF : 22.3/24

Right Out: 7.777+/-11.115 χ^2/NDF : 26.0/20

Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

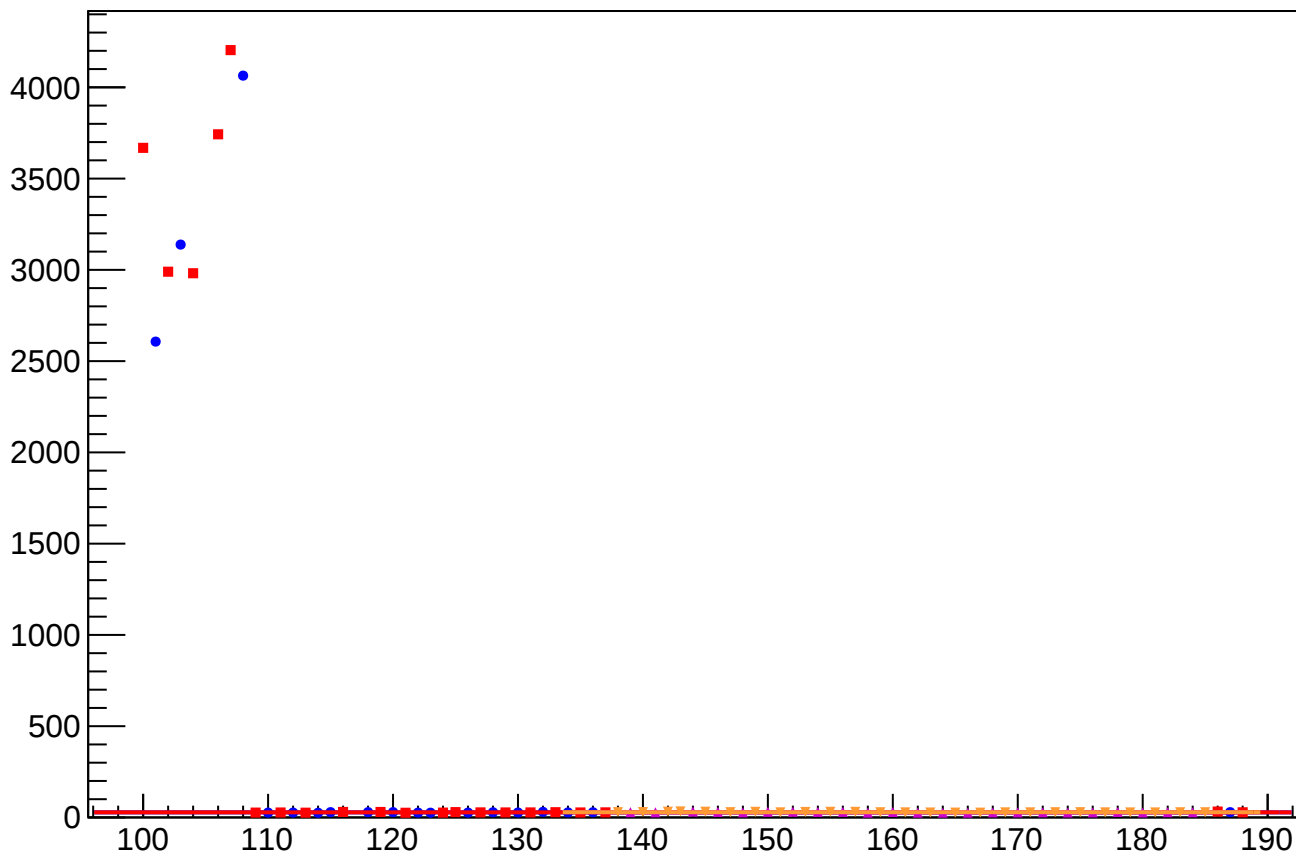
Right: 9.012+/-8.203 χ^2/NDF : 45.0/38

In: 3.330+/-5.988 χ^2/NDF : 51.8/40

Out: -10.831+/-5.734 χ^2/NDF : 52.1/45

All: -4.057+/-4.141 χ^2/NDF : 106.9/86

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.905 $\pm$ 0.009 χ^2 /NDF: 3028281.2/17

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.990 $\pm$ 0.008 χ^2 /NDF: 3491221.4/20

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

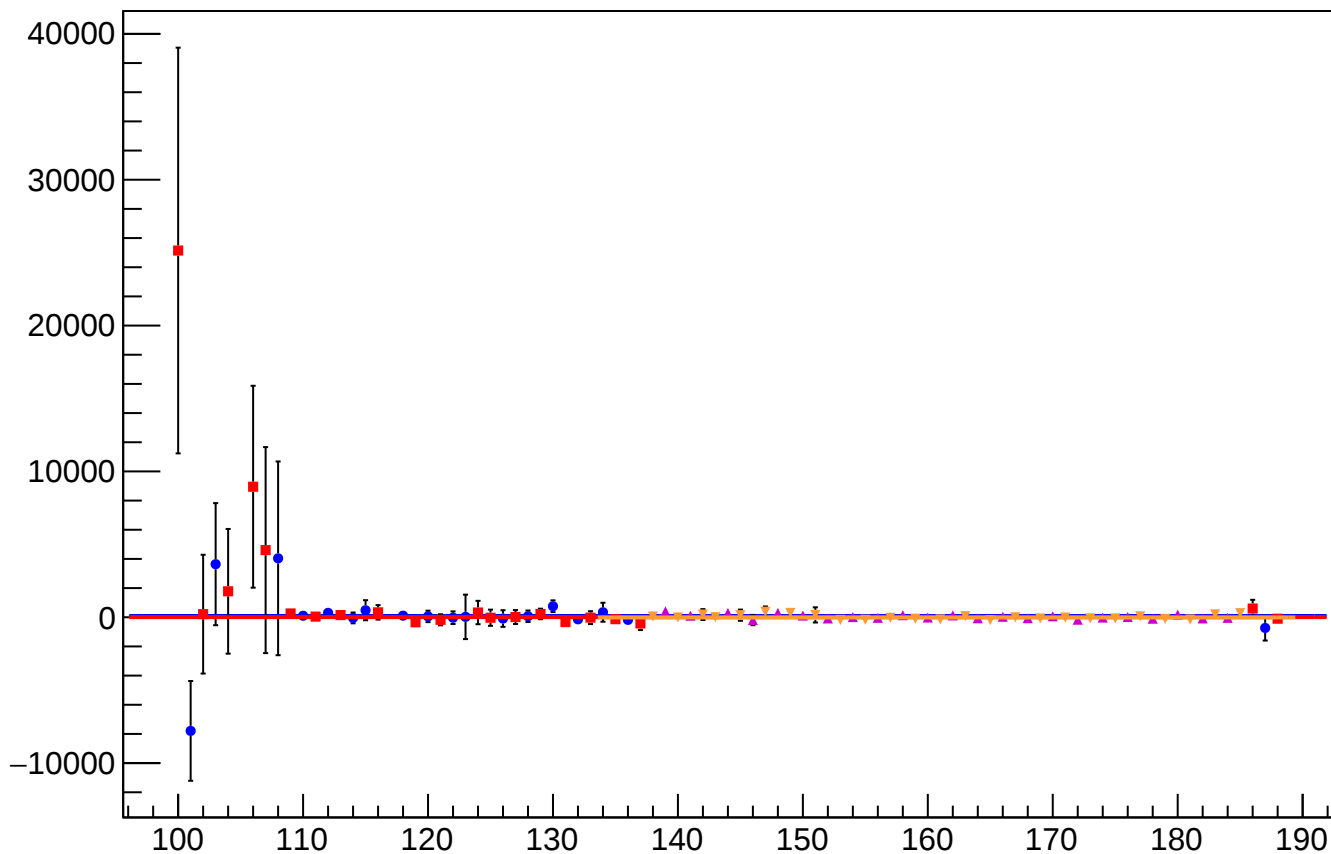
Right: 27.951 $\pm$ 0.006 χ^2 /NDF: 6519557.0/38

In: 28.486 $\pm$ 0.004 χ^2 /NDF: 3159080.9/40

Out: 28.504 $\pm$ 0.004 χ^2 /NDF: 3607532.3/45

All: 28.496 $\pm$ 0.003 χ^2 /NDF: 6766622.6/86

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 85.026+/-87.995 χ^2/NDF : 13.7/17

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: 10.697+/-76.729 χ^2/NDF : 13.9/20

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

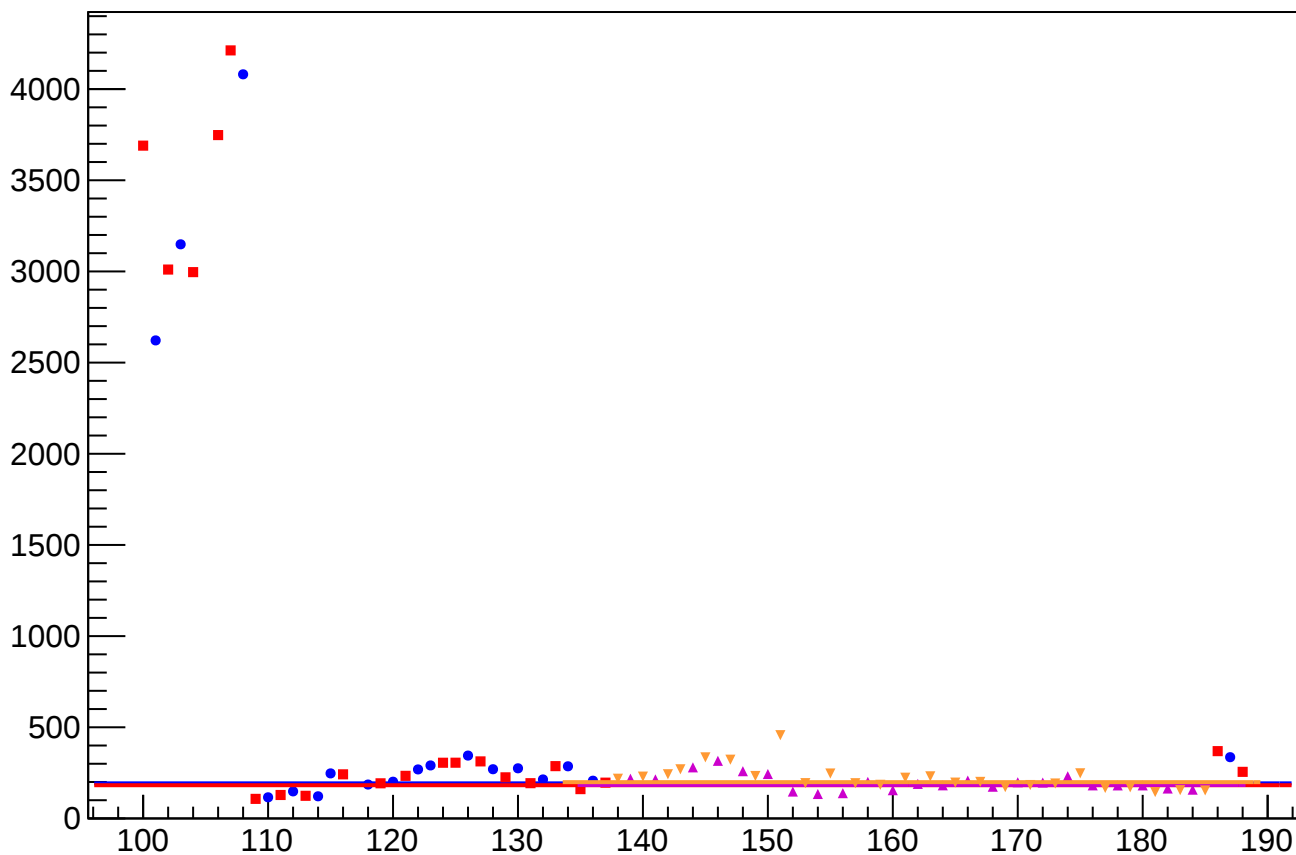
Right: 42.802+/-57.831 χ^2/NDF : 28.0/38

In: 39.370+/-40.616 χ^2/NDF : 21.8/40

Out: -8.095+/-40.760 χ^2/NDF : 22.7/45

All: 15.721+/-28.770 χ^2/NDF : 45.2/86

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.500 $\pm$ 0.062 χ^2 /NDF: 3643515.3/17

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 182.289 $\pm$ 0.054 χ^2 /NDF: 4582923.0/20

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

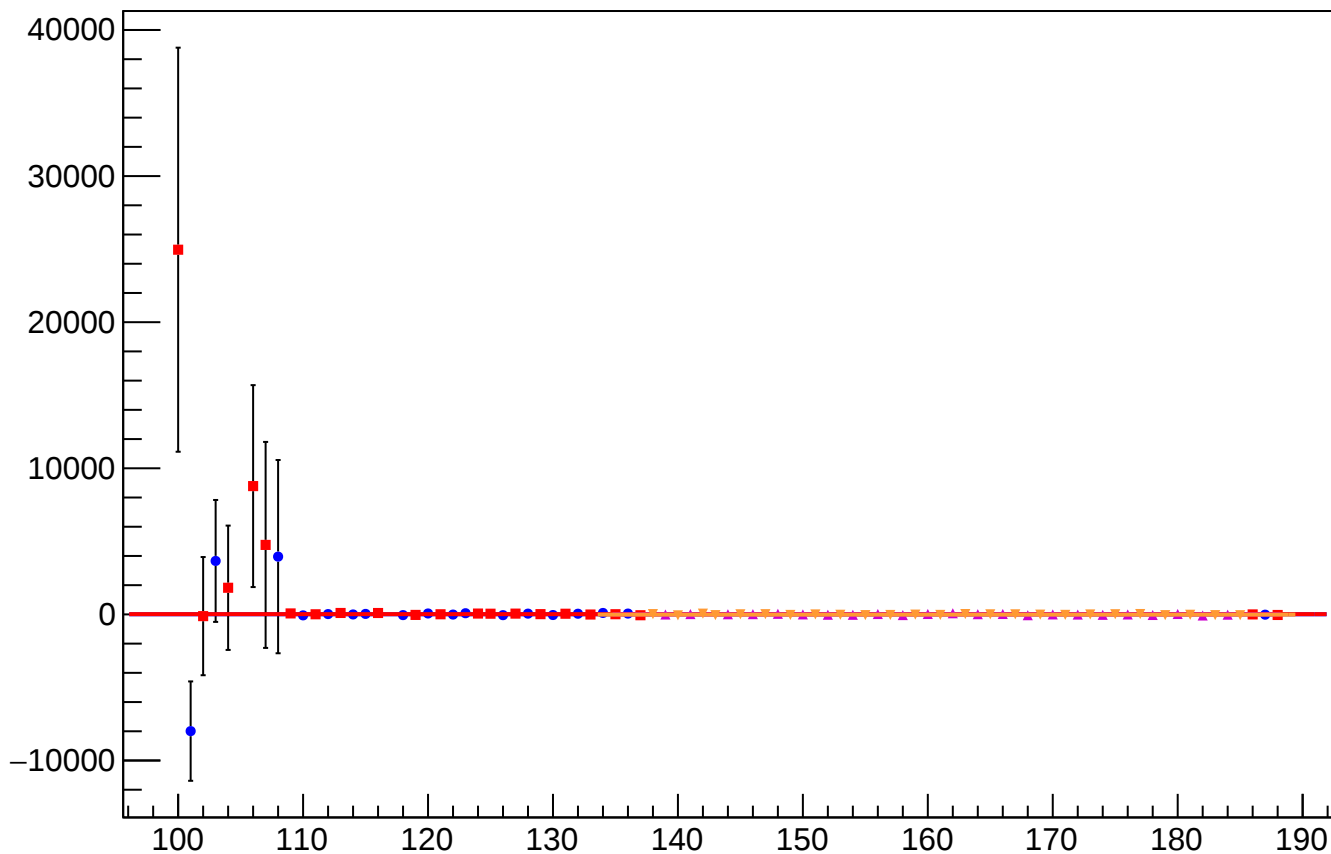
Right: 186.700 $\pm$ 0.041 χ^2 /NDF: 8241735.5/38

In: 185.549 $\pm$ 0.029 χ^2 /NDF:5082268.9/40

Out: 194.352 $\pm$ 0.029 χ^2 /NDF:6532126.5/45

All: 189.935 $\pm$ 0.020 χ^2 /NDF: 11661203.2/86

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.250+/-12.237 χ^2/NDF : 23.0/17

Left Out: -15.006+/-6.723 χ^2/NDF : 17.5/24

Right Out: 17.450+/-11.167 χ^2/NDF : 21.0/20

Left In: -0.702+/-6.909 χ^2/NDF : 26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

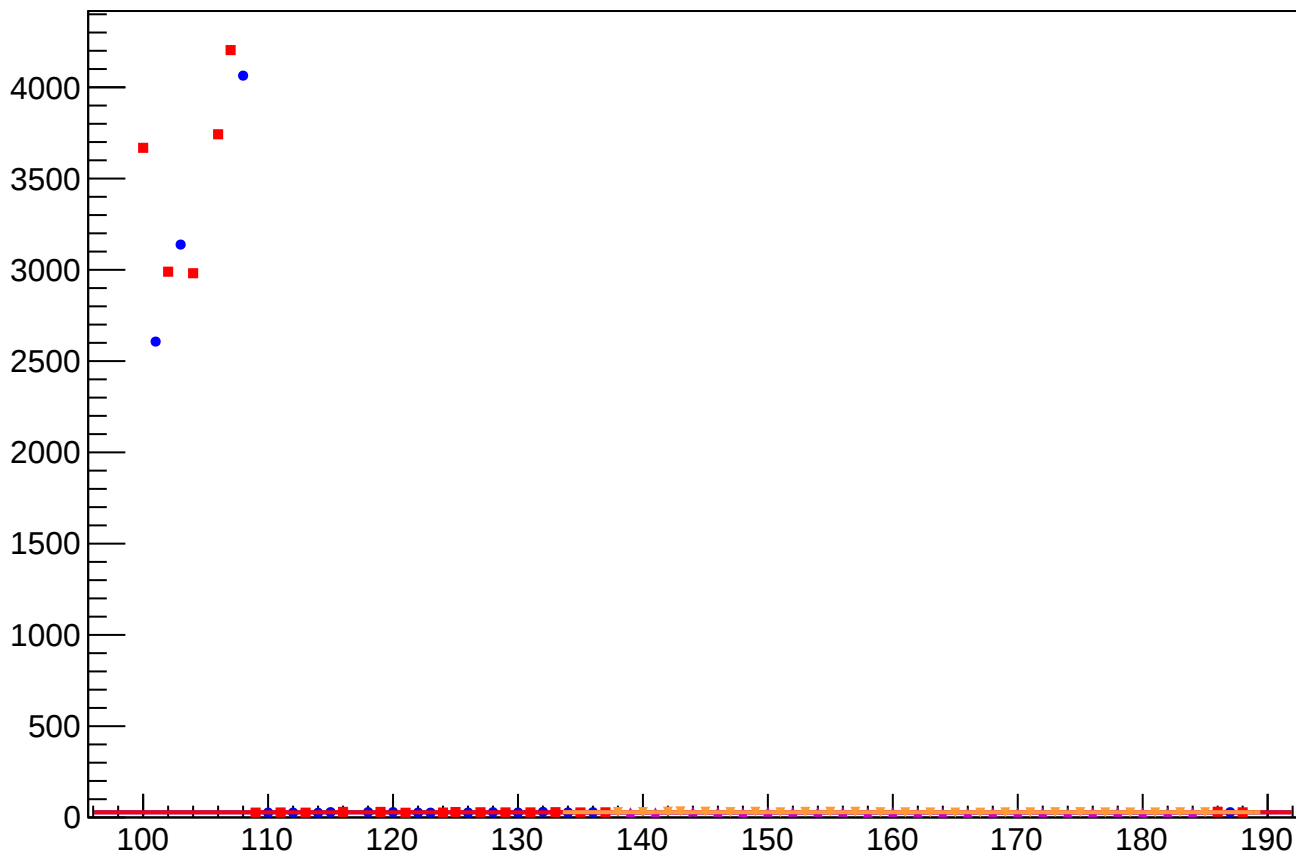
Right: 12.815+/-8.249 χ^2/NDF : 44.4/38

In: 1.220+/-6.016 χ^2/NDF : 49.6/40

Out: -6.371+/-5.760 χ^2/NDF : 44.7/45

All: -2.741+/-4.161 χ^2/NDF : 95.2/86

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.082 $\pm$ 0.009 χ^2 /NDF: 3028545.9/17

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 28.123 $\pm$ 0.008 χ^2 /NDF: 3488272.6/20

Left In: 28.792 $\pm$ 0.005 χ^2 /NDF: 129393.1/22

Left: 28.803 $\pm$ 0.003 χ^2 /NDF: 251375.8/47

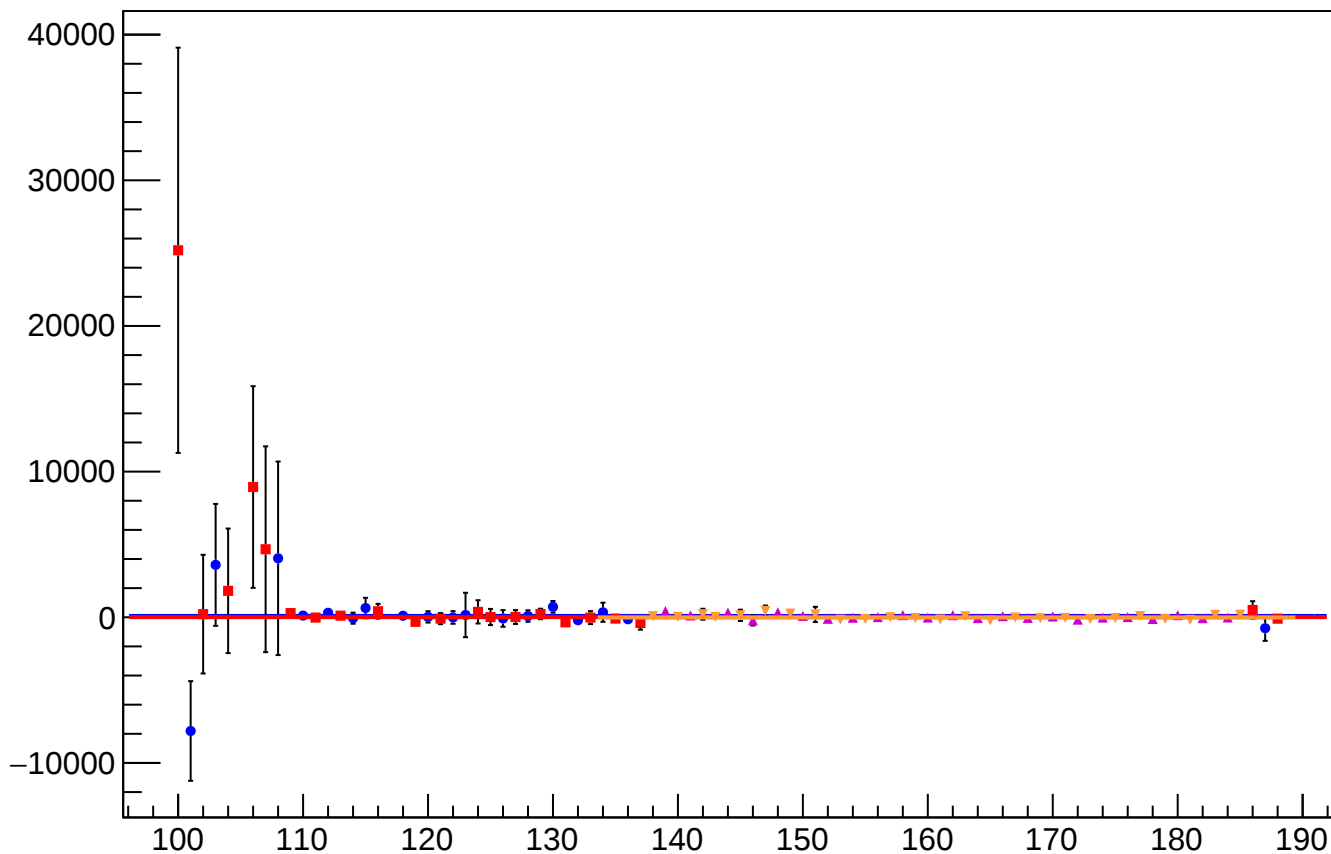
Right: 28.104 $\pm$ 0.006 χ^2 /NDF: 6516831.1/38

In: 28.621 $\pm$ 0.004 χ^2 /NDF: 3163058.1/40

Out: 28.629 $\pm$ 0.004 χ^2 /NDF: 3615844.9/45

All: 28.625 $\pm$ 0.003 χ^2 /NDF: 6778905.1/86

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 90.782 $\pm$ 89.041 χ^2 /NDF: 13.5/17

Left Out: -15.548 $\pm$ 48.688 χ^2 /NDF:8.0/24

Right Out: 8.206 $\pm$ 77.693 χ^2 /NDF: 13.1/20

Left In: 31.170 $\pm$ 46.359 χ^2 /NDF:8.2/22

Left: 8.955 $\pm$ 33.574 χ^2 /NDF: 16.6/47

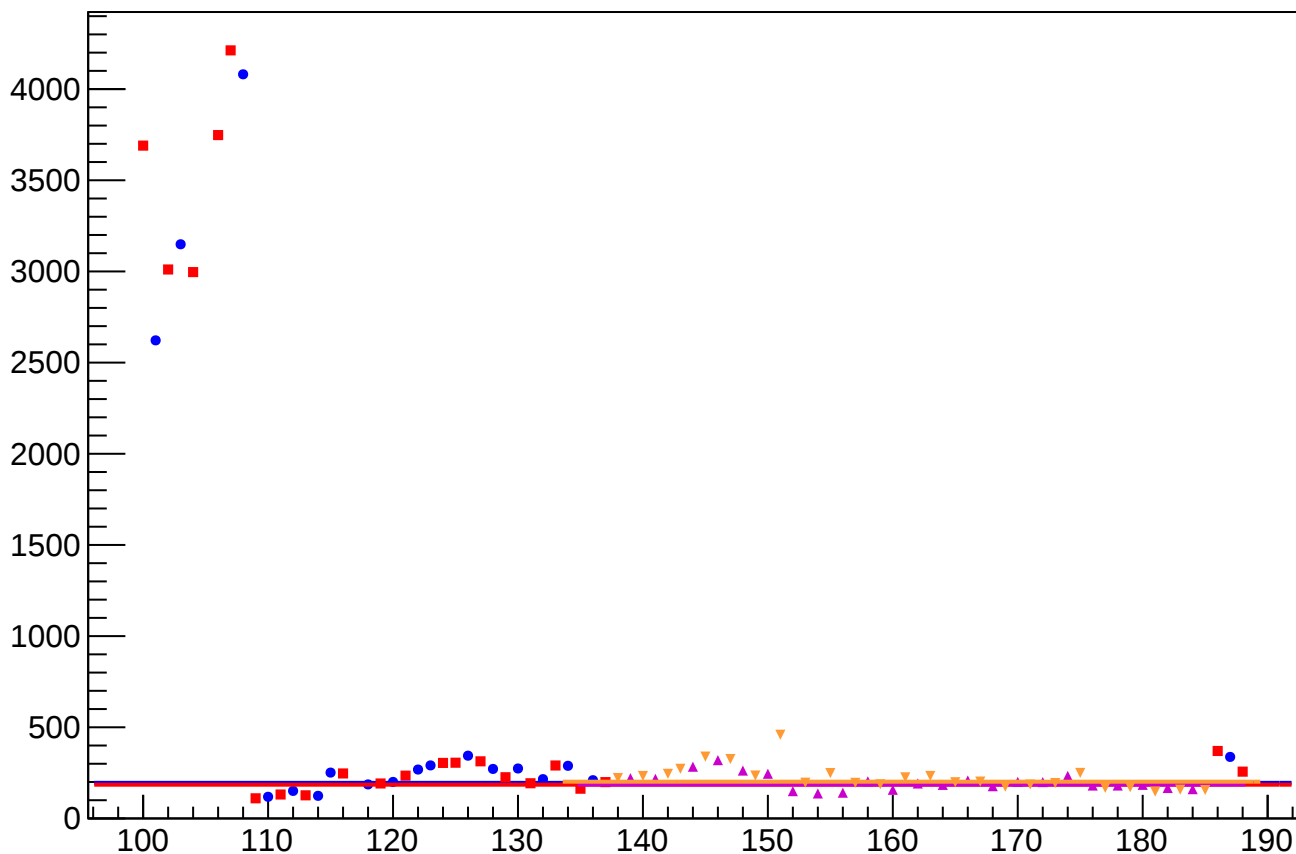
Right: 43.899 $\pm$ 58.541 χ^2 /NDF: 27.1/38

In: 43.883 $\pm$ 41.120 χ^2 /NDF:22.0/40

Out: -8.850 $\pm$ 41.256 χ^2 /NDF:21.2/45

All: 17.604 $\pm$ 29.124 χ^2 /NDF: 44.1/86

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.259+/-0.063 χ^2/NDF : 3594235.5/17

Left Out: 201.600+/-0.034 χ^2/NDF : 1857453.2/24

Right Out: 185.163+/-0.055 χ^2/NDF : 4516444.9/20

Left In: 186.107+/-0.033 χ^2/NDF : 1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

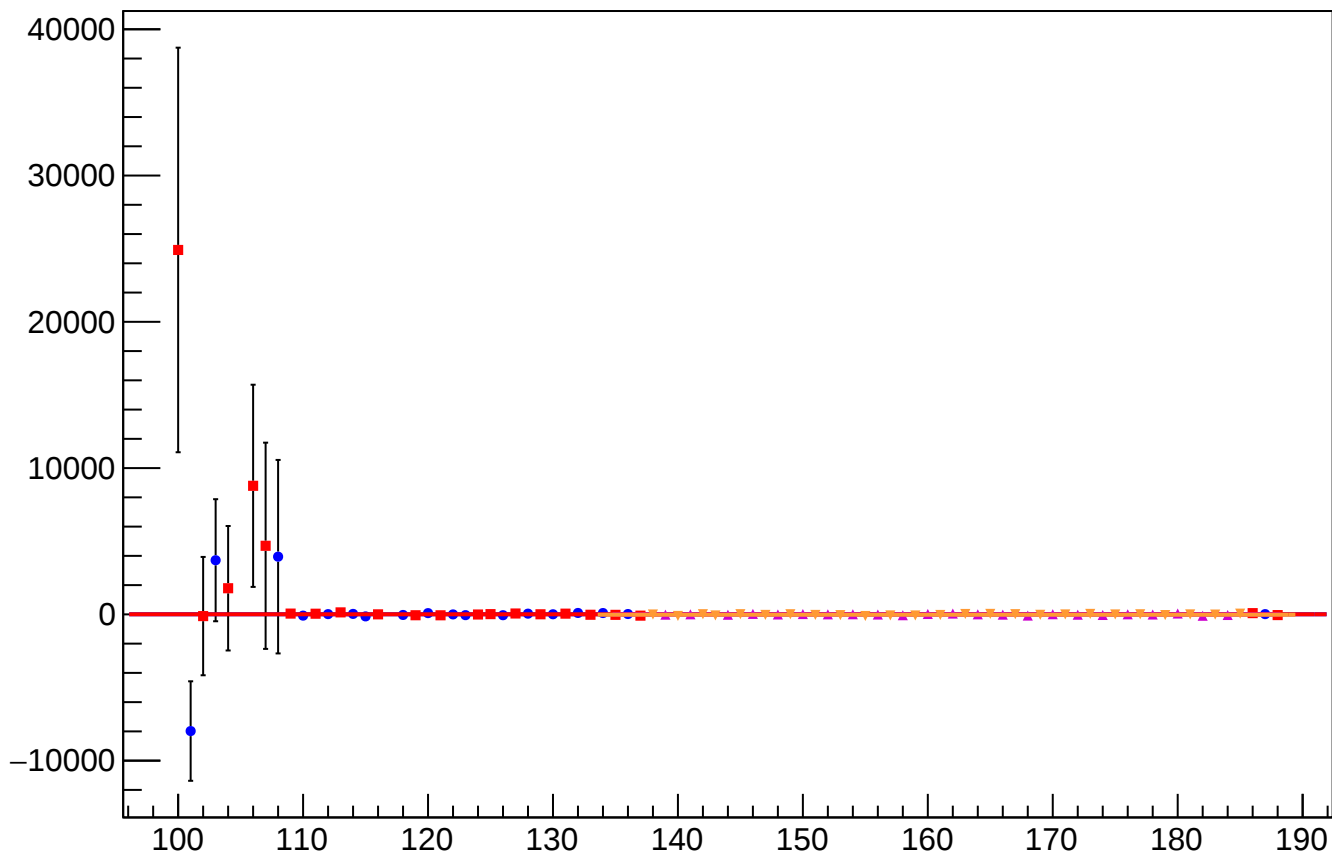
Right: 189.527+/-0.041 χ^2/NDF : 8125280.9/38

In: 188.059+/-0.029 χ^2/NDF : 5002187.6/40

Out: 196.965+/-0.029 χ^2/NDF : 6438177.0/45

All: 192.497+/-0.021 χ^2/NDF : 11487121.3/86

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.237+/-14.888 χ^2/NDF : 20.2/17

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 6.880+/-13.533 χ^2/NDF : 25.5/20

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

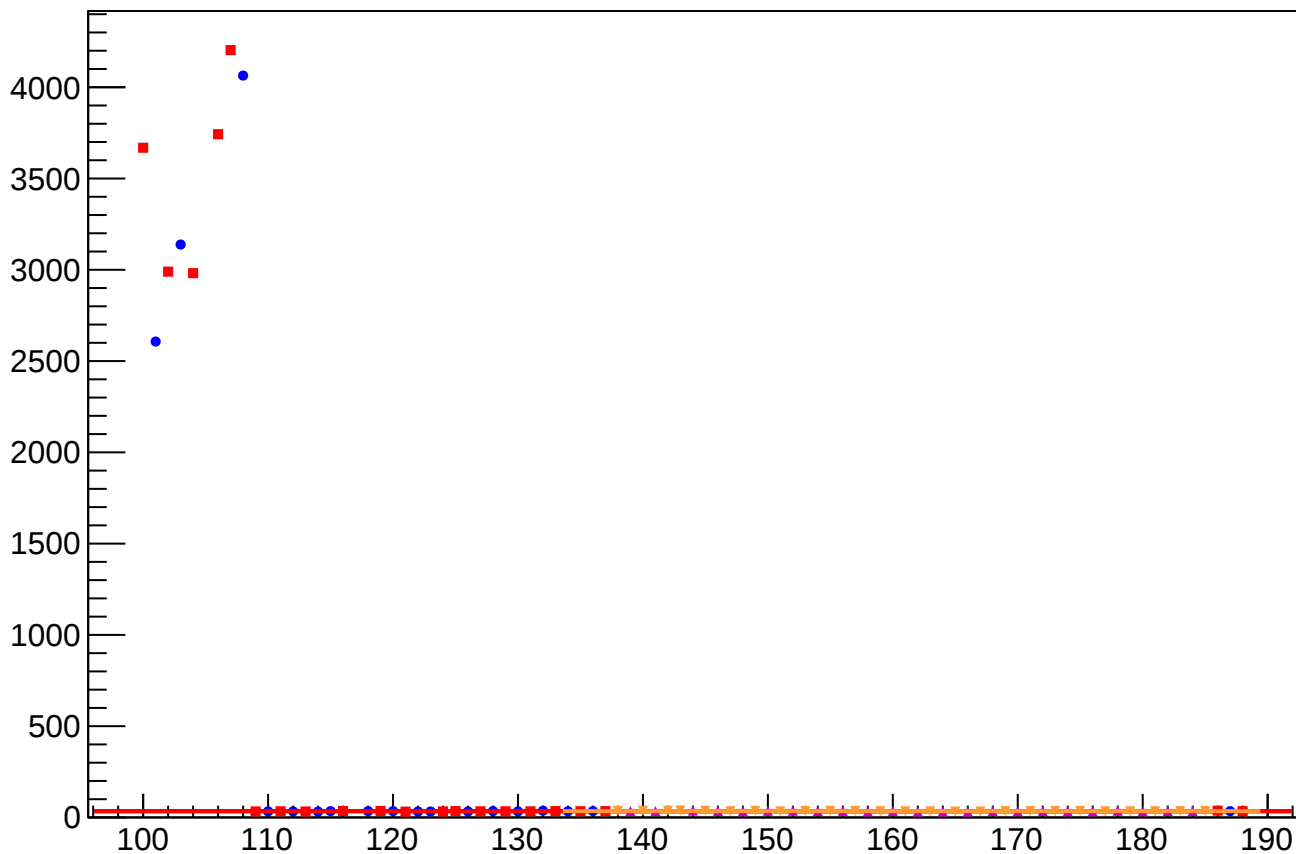
Right: 7.042+/-10.014 χ^2/NDF : 45.7/38

In: -2.857+/-7.255 χ^2/NDF : 42.0/40

Out: -15.435+/-6.928 χ^2/NDF : 55.0/45

All: -9.436+/-5.010 χ^2/NDF : 98.5/86

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.206+/-0.011 χ^2/NDF : 3006478.2/17

Left Out: 34.614+/-0.006 χ^2/NDF : 57946.1/24

Right Out: 34.164+/-0.010 χ^2/NDF : 3458088.5/20

Left In: 34.685+/-0.006 χ^2/NDF : 60315.2/22

Left: 34.649+/-0.004 χ^2/NDF : 118335.7/47

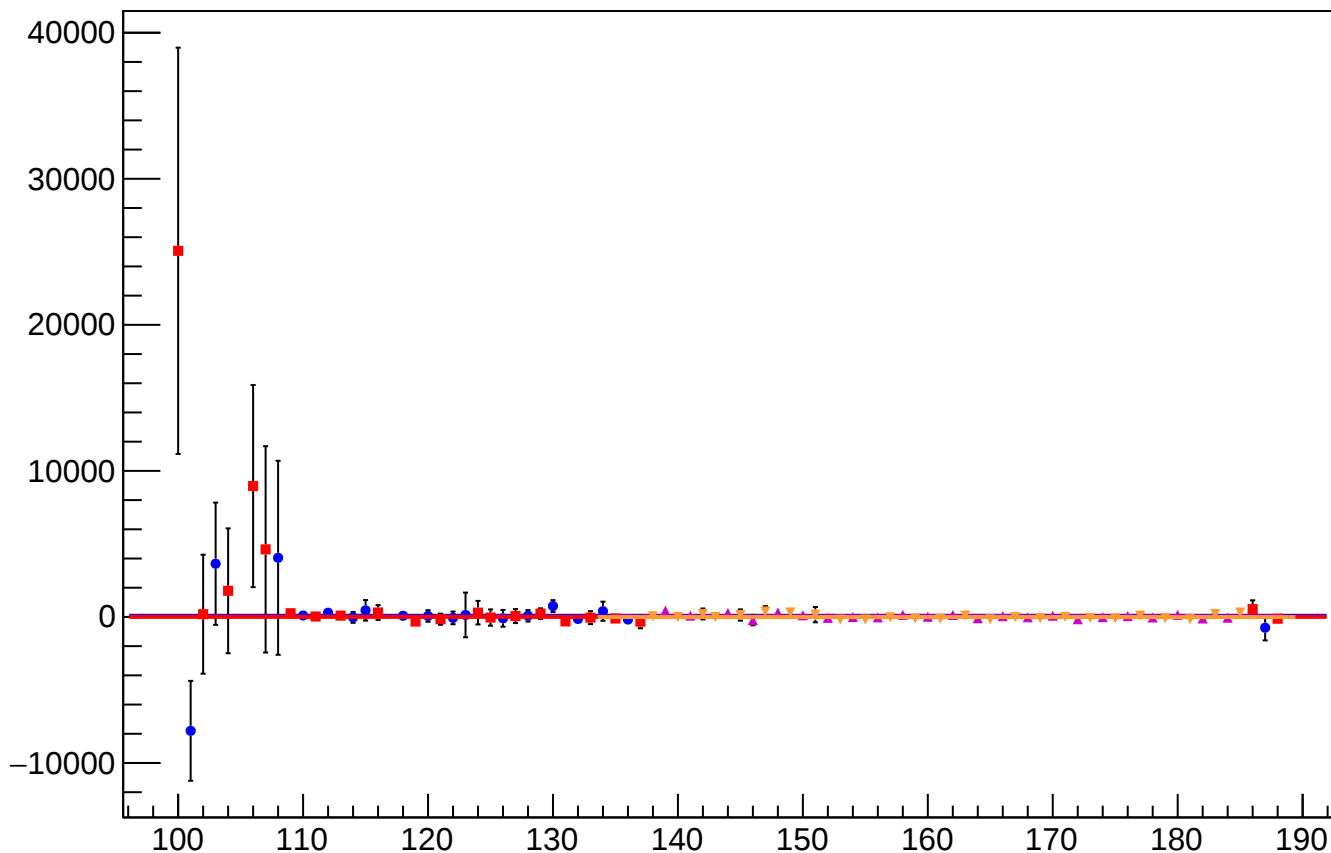
Right: 34.183+/-0.007 χ^2/NDF : 6464575.7/38

In: 34.571+/-0.005 χ^2/NDF : 3068371.9/40

Out: 34.496+/-0.005 χ^2/NDF : 3517672.7/45

All: 34.532+/-0.004 χ^2/NDF : 6586156.6/86

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 78.432+/-88.594 χ^2/NDF : 13.4/17

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: 3.701+/-77.221 χ^2/NDF : 12.1/20

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

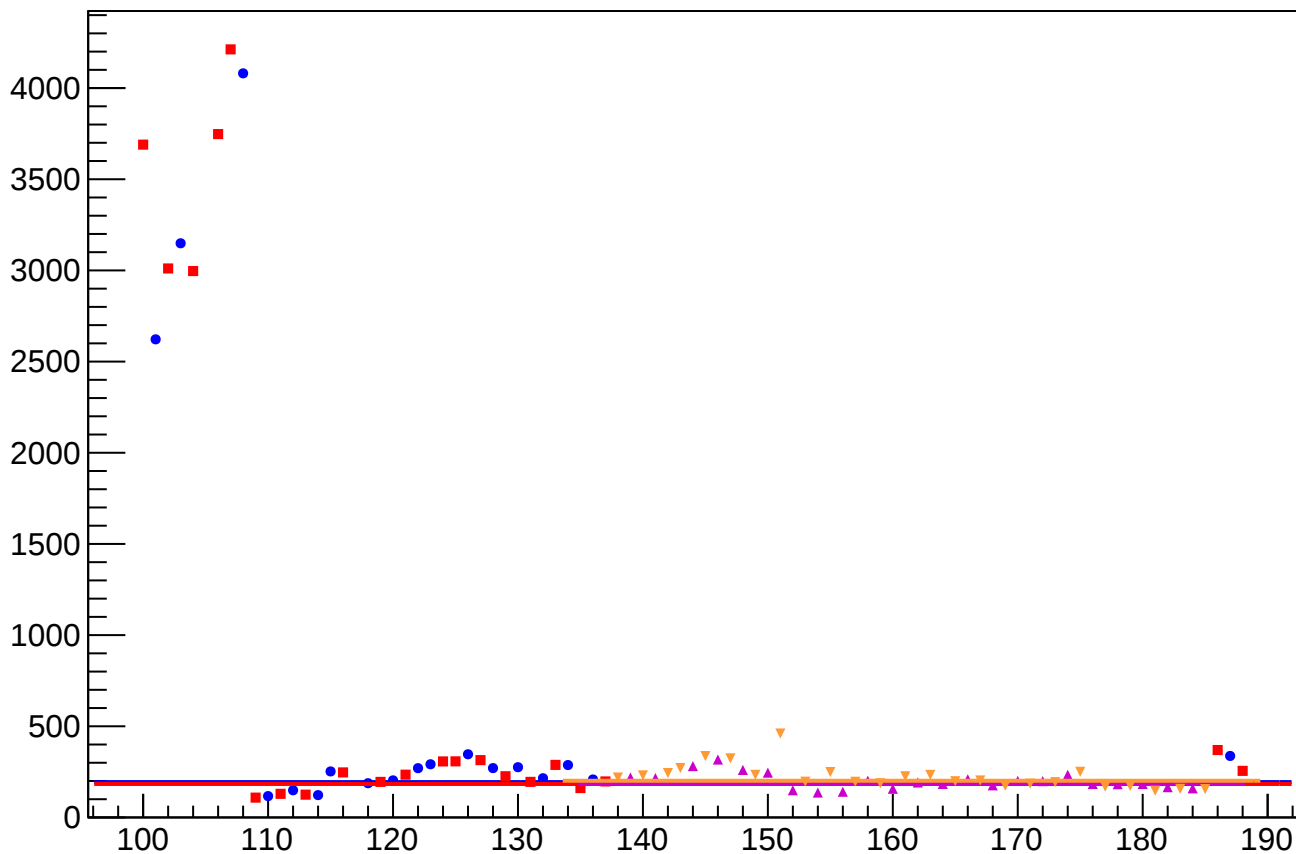
Right: 35.965+/-58.212 χ^2/NDF : 25.9/38

In: 43.631+/-41.032 χ^2/NDF : 21.0/40

Out: -5.335+/-41.141 χ^2/NDF : 20.8/45

All: 19.213+/-29.052 χ^2/NDF : 42.5/86

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.926+/-0.063 χ^2/NDF : 3633025.9/17

Left Out: 201.296+/-0.034 χ^2/NDF :1851134.1/24

Right Out: 183.614+/-0.055 χ^2/NDF : 4567817.5/20

Left In: 185.854+/-0.033 χ^2/NDF :1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

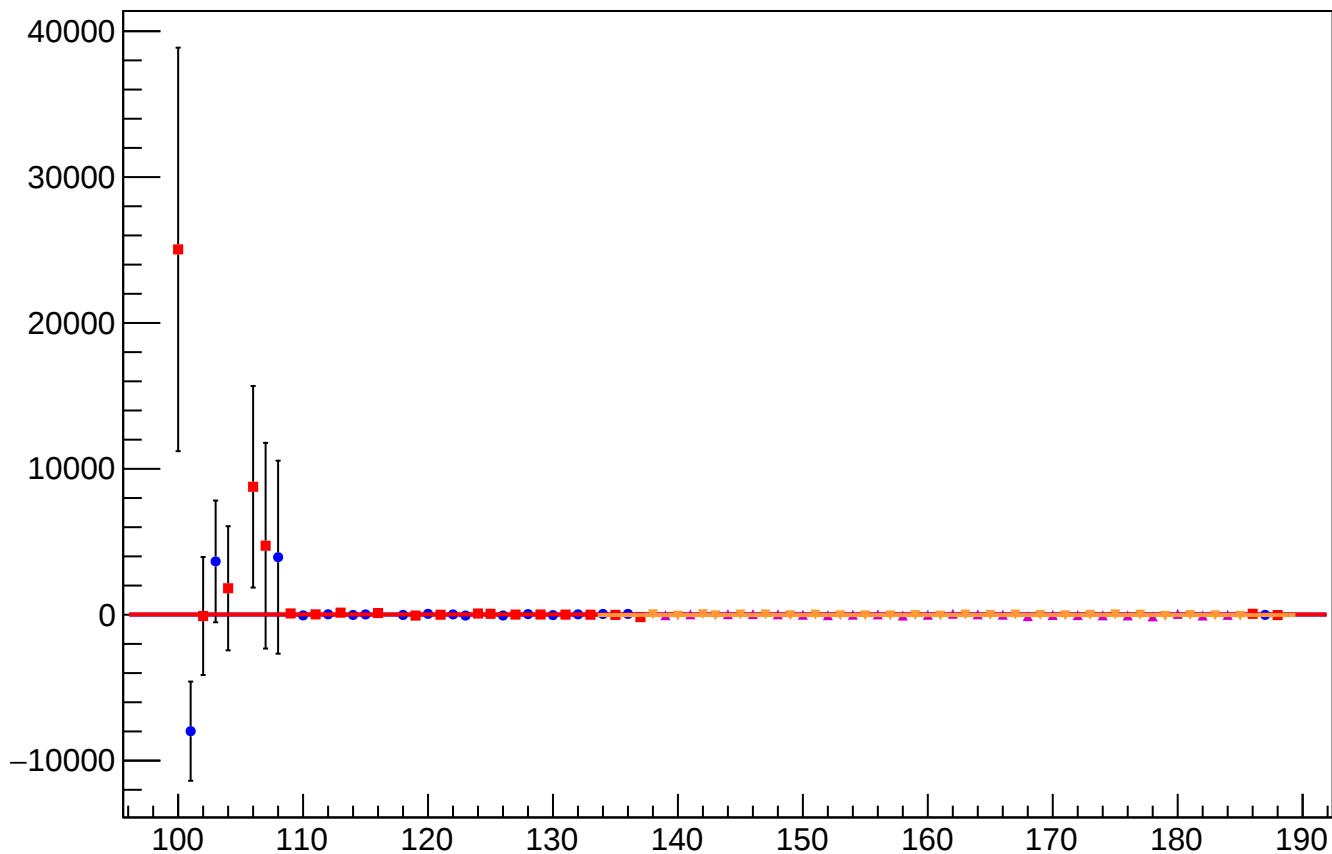
Right: 188.066+/-0.041 χ^2/NDF : 8216240.6/38

In: 187.585+/-0.029 χ^2/NDF :5027840.2/40

Out: 196.277+/-0.029 χ^2/NDF :6494050.3/45

All: 191.920+/-0.021 χ^2/NDF : 11566646.3/86

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.701 $\pm$ 13.575 χ^2 /NDF: 14.6/17

Left Out: -22.879 $\pm$ 7.340 χ^2 /NDF:18.8/24

Right Out: 17.692 $\pm$ 12.338 χ^2 /NDF: 30.2/20

Left In: -5.943 $\pm$ 7.550 χ^2 /NDF:38.3/22

Left: -14.649 $\pm$ 5.263 χ^2 /NDF: 59.7/47

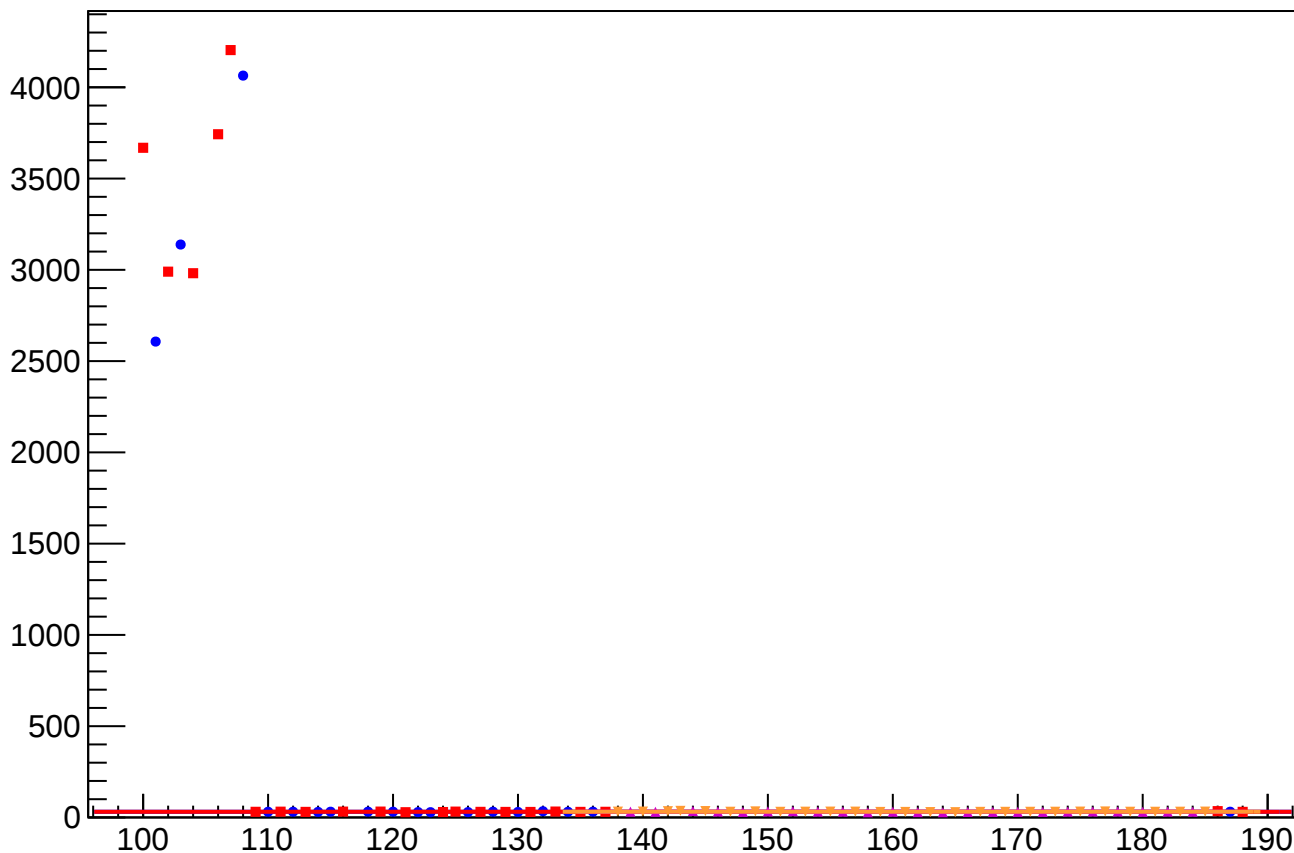
Right: 14.982 $\pm$ 9.130 χ^2 /NDF: 44.9/38

In: -1.775 $\pm$ 6.598 χ^2 /NDF:54.2/40

Out: -12.273 $\pm$ 6.308 χ^2 /NDF:56.9/45

All: -7.260 $\pm$ 4.560 χ^2 /NDF: 112.5/86

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.189 $\pm$ 0.010 χ^2 /NDF: 3014256.7/17

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF: 82437.2/24

Right Out: 31.113 $\pm$ 0.009 χ^2 /NDF: 3467066.2/20

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

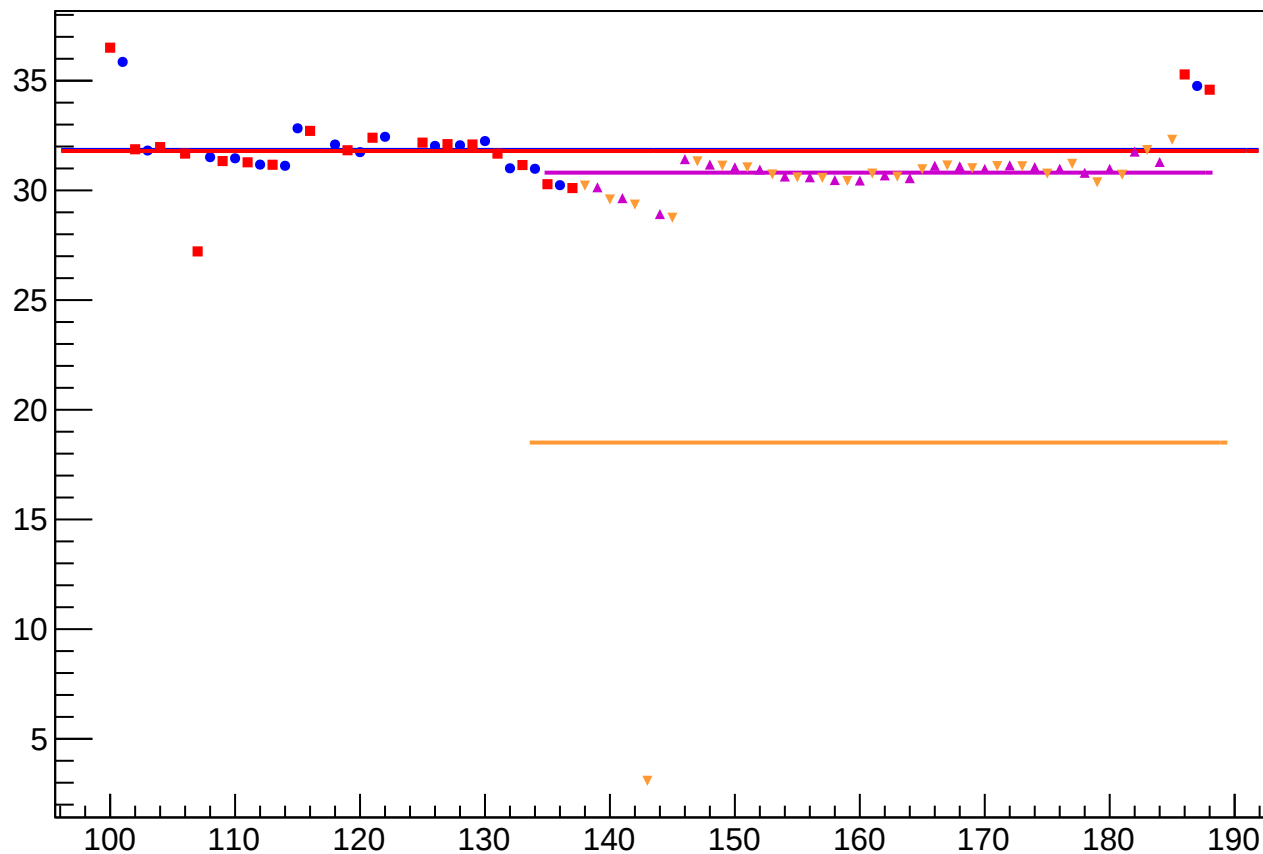
Right: 31.147 $\pm$ 0.006 χ^2 /NDF: 6481357.5/38

In: 31.415 $\pm$ 0.005 χ^2 /NDF: 3102960.9/40

Out: 31.385 $\pm$ 0.004 χ^2 /NDF: 3550824.4/45

All: 31.399 $\pm$ 0.003 χ^2 /NDF: 6653806.1/86

yield_usl_mean vs Slug, Sign Corrected



Right In: 31.846 $\pm$ 0.000 χ^2 /NDF: 1619850218.9/16

Left Out: 18.505 $\pm$ 0.000 χ^2 /NDF: 940607632746.3/24

Right Out: 31.795 $\pm$ 0.000 χ^2 /NDF: 1463241005.0/19

Left In: 30.809 $\pm$ 0.000 χ^2 /NDF: 821961762.3/22

Left: 22.806 $\pm$ 0.000 χ^2 /NDF: 1203928236724.3/47

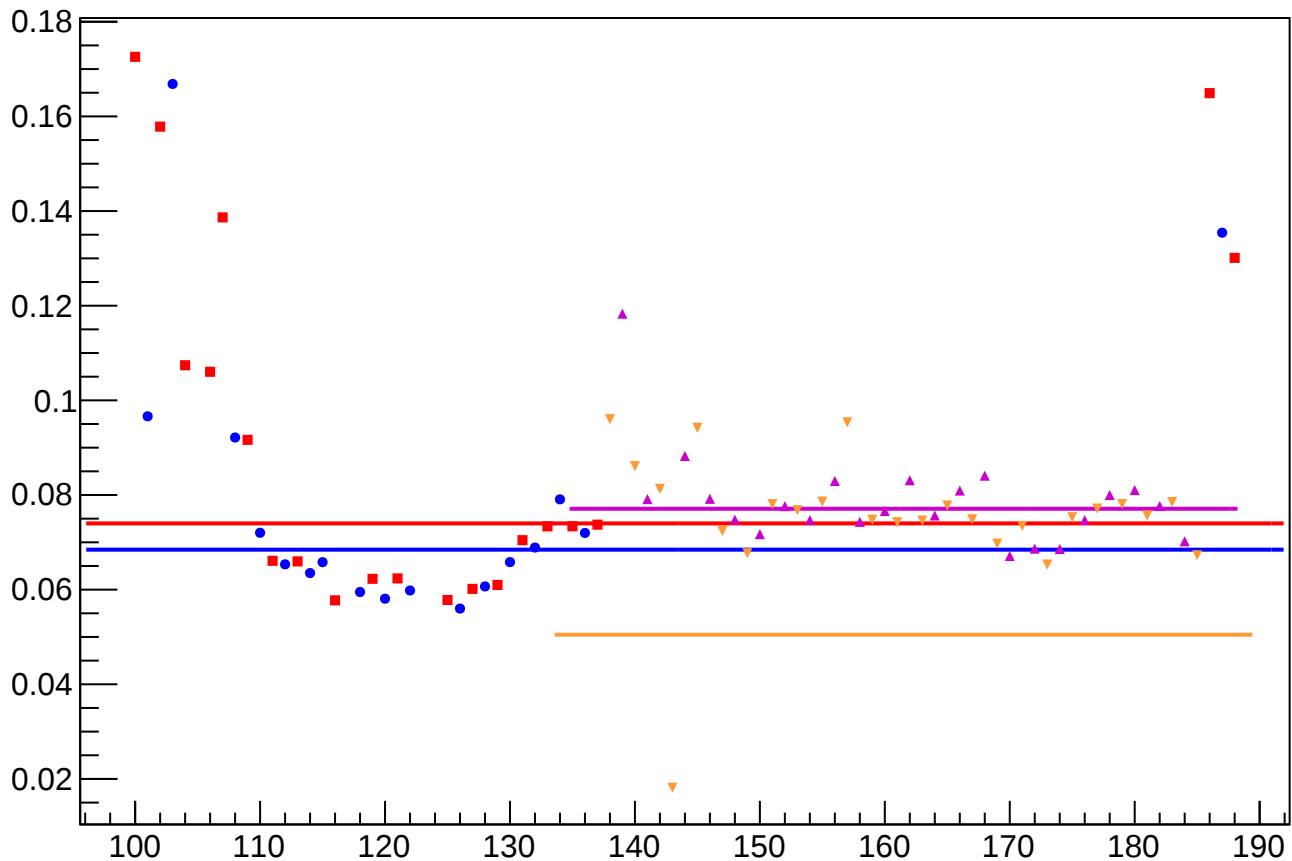
Right: 31.821 $\pm$ 0.000 χ^2 /NDF: 3084708243.3/36

In: 31.140 $\pm$ 0.000 χ^2 /NDF: 3357501882.2/39

Out: 21.183 $\pm$ 0.000 χ^2 /NDF: 1118580005100.8/44

All: 25.034 $\pm$ 0.000 χ^2 /NDF: 1360136973772

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.000 χ^2/NDF : 702466.0/16

Left Out: 0.050 $\pm$ 0.000 χ^2/NDF : 8543648.6/24

Right Out: 0.074 $\pm$ 0.000 χ^2/NDF : 1420153.2/19

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

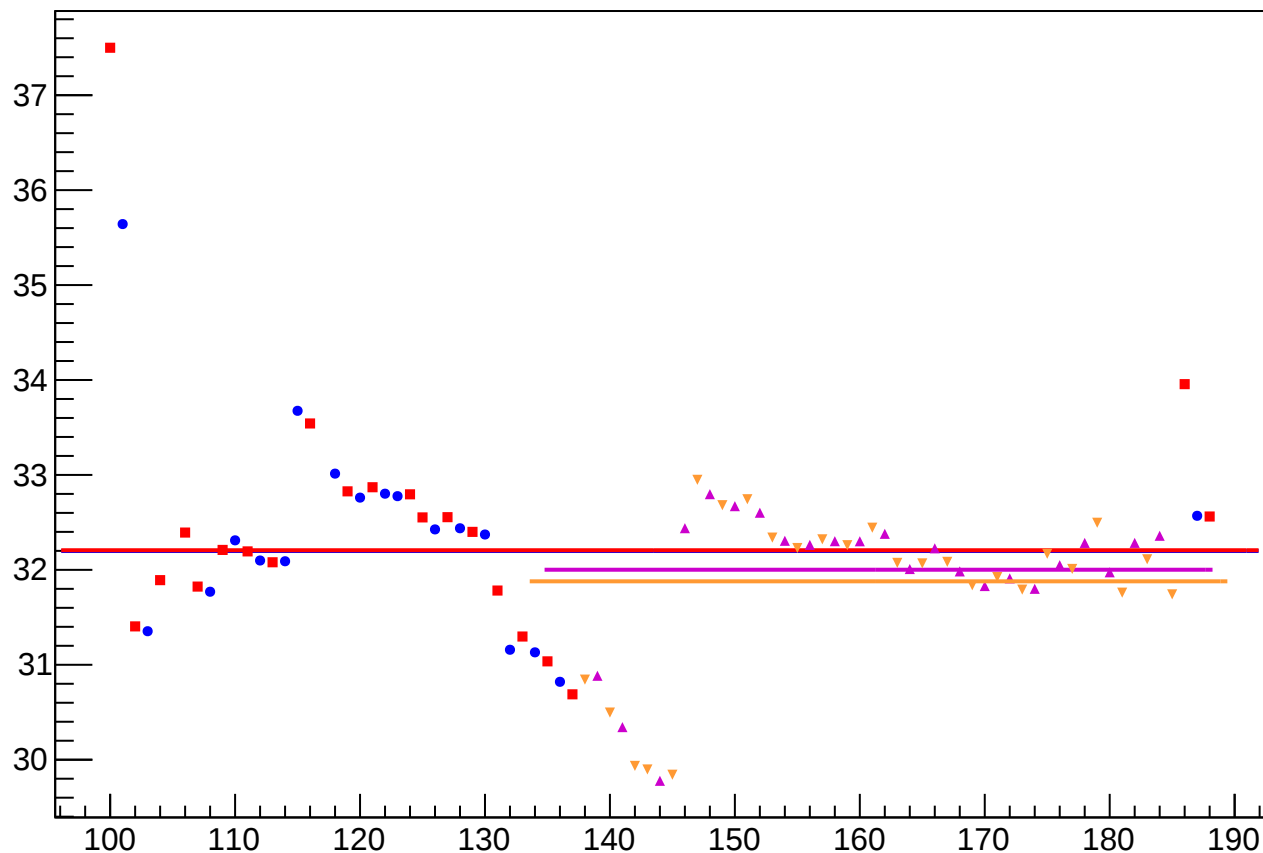
Right: 0.071 $\pm$ 0.000 χ^2/NDF : 2161140.0/36

In: 0.074 $\pm$ 0.000 χ^2/NDF : 1155504.1/39

Out: 0.055 $\pm$ 0.000 χ^2/NDF : 11069340.0/44

All: 0.063 $\pm$ 0.000 χ^2/NDF : 13979983.2/84

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.198 ± 0.000 χ^2/NDF : 1003135840.5/17

Left Out: 31.879 ± 0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.207 ± 0.000 χ^2/NDF : 493550441.4/20

Left In: 32.001 ± 0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939 ± 0.000 χ^2/NDF : 3408370857.8/47

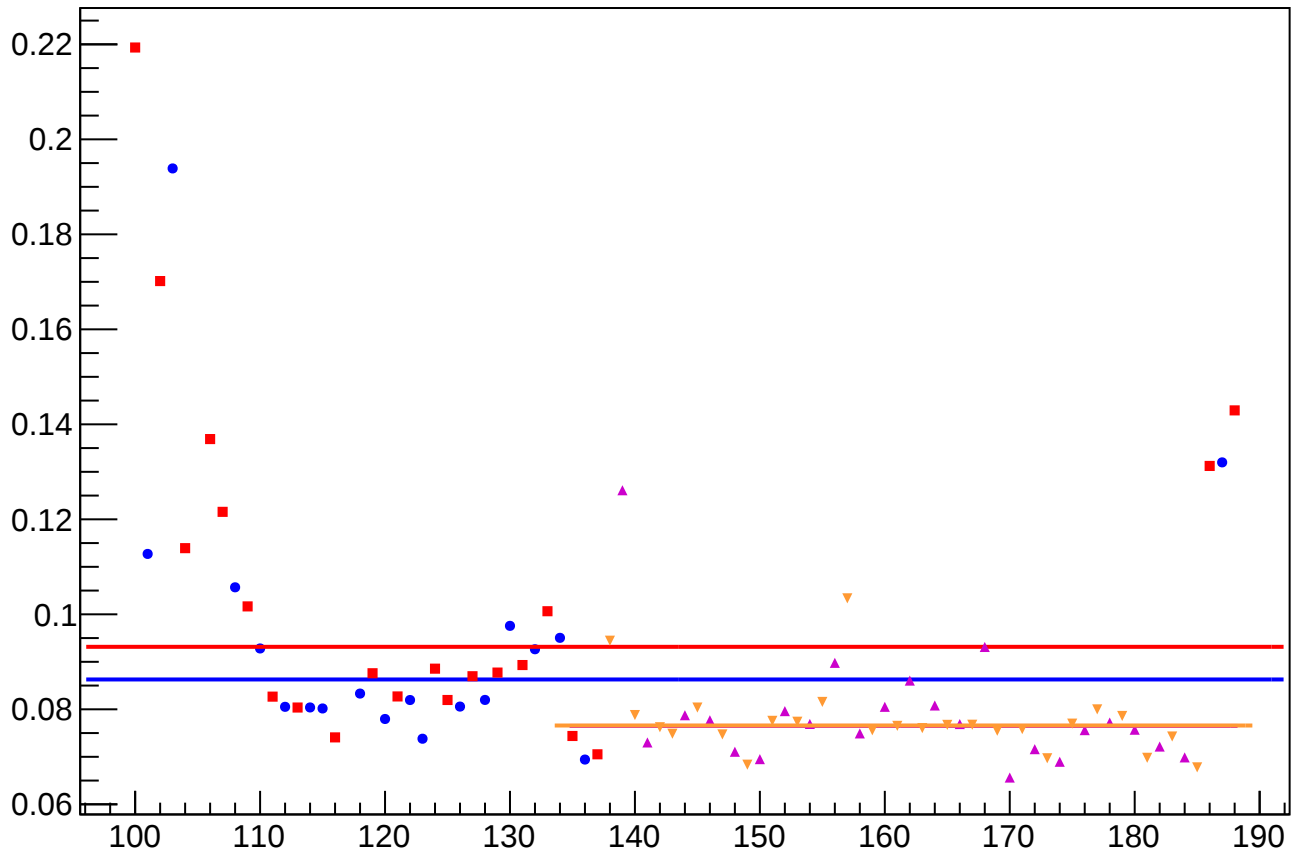
Right: 32.203 ± 0.000 χ^2/NDF : 1496713168.6/38

In: 32.045 ± 0.000 χ^2/NDF : 2438153713.8/40

Out: 31.952 ± 0.000 χ^2/NDF : 2538566202.5/45

All: 31.998 ± 0.000 χ^2/NDF : 4992493009.5/8

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.086+/-0.000 χ^2/NDF : 589025.8/17

Left Out: 0.077+/-0.000 χ^2/NDF : 209648.5/24

Right Out: 0.093+/-0.000 χ^2/NDF : 817581.8/20

Left In: 0.076+/-0.000 χ^2/NDF : 432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

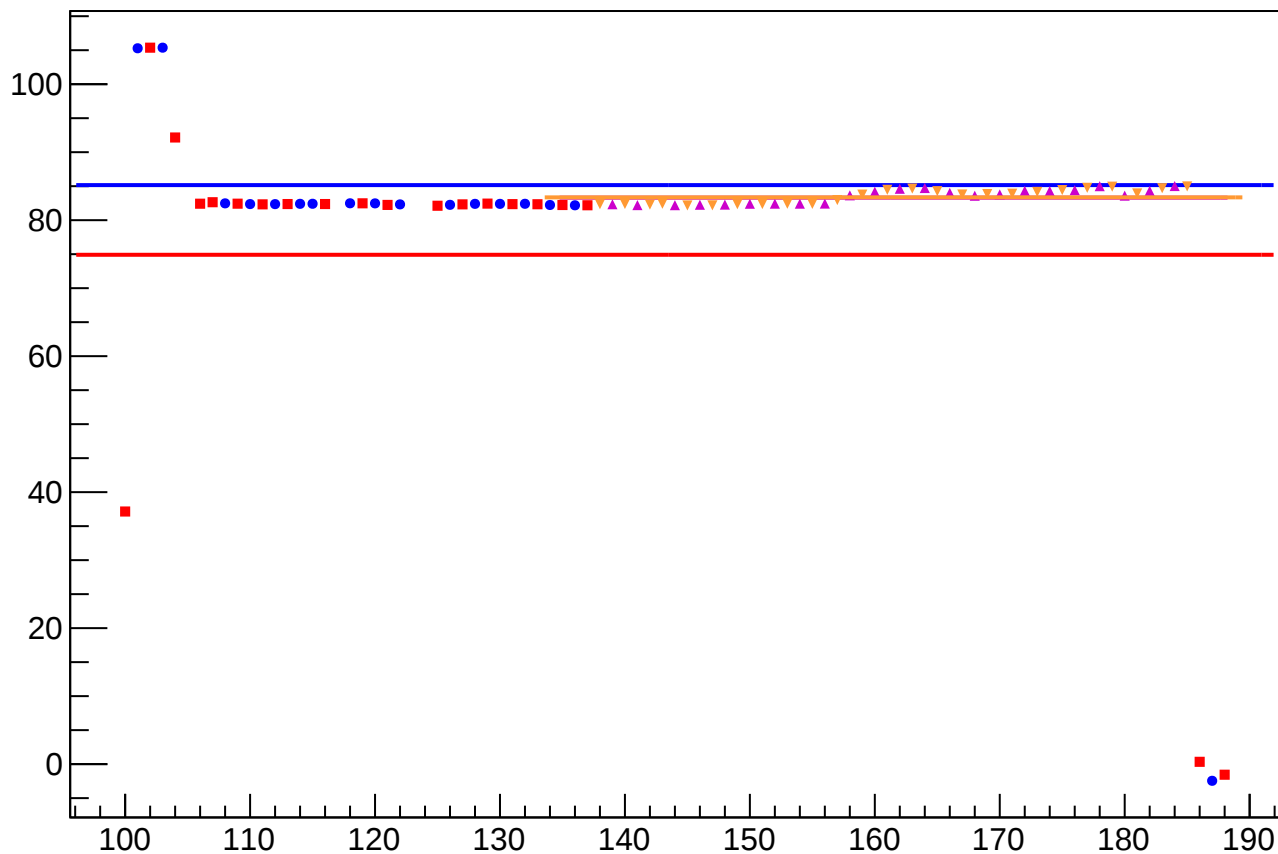
Right: 0.090+/-0.000 χ^2/NDF : 1444800.1/38

In: 0.079+/-0.000 χ^2/NDF : 1139424.5/40

Out: 0.080+/-0.000 χ^2/NDF : 1379144.3/45

All: 0.080+/-0.000 χ^2/NDF : 2527739.1/86

yield_dsl_mean vs Slug, Sign Corrected



Right In: 85.158+/-0.000

χ^2/NDF : 728782478705.1/16

Left: 83.332+/-0.000

χ^2/NDF : 17572666767.1/47

Left Out: 83.355+/-0.000

χ^2/NDF : 9142393022.8/24

Right: 79.666+/-0.000

χ^2/NDF : 4463394031516.1/3

Right Out: 74.911+/-0.000

χ^2/NDF : 3519887576804.1/19

In: 83.890+/-0.000

χ^2/NDF : 746154240147.1/39

Out: 80.516+/-0.000

χ^2/NDF : 3737587703203.5/44

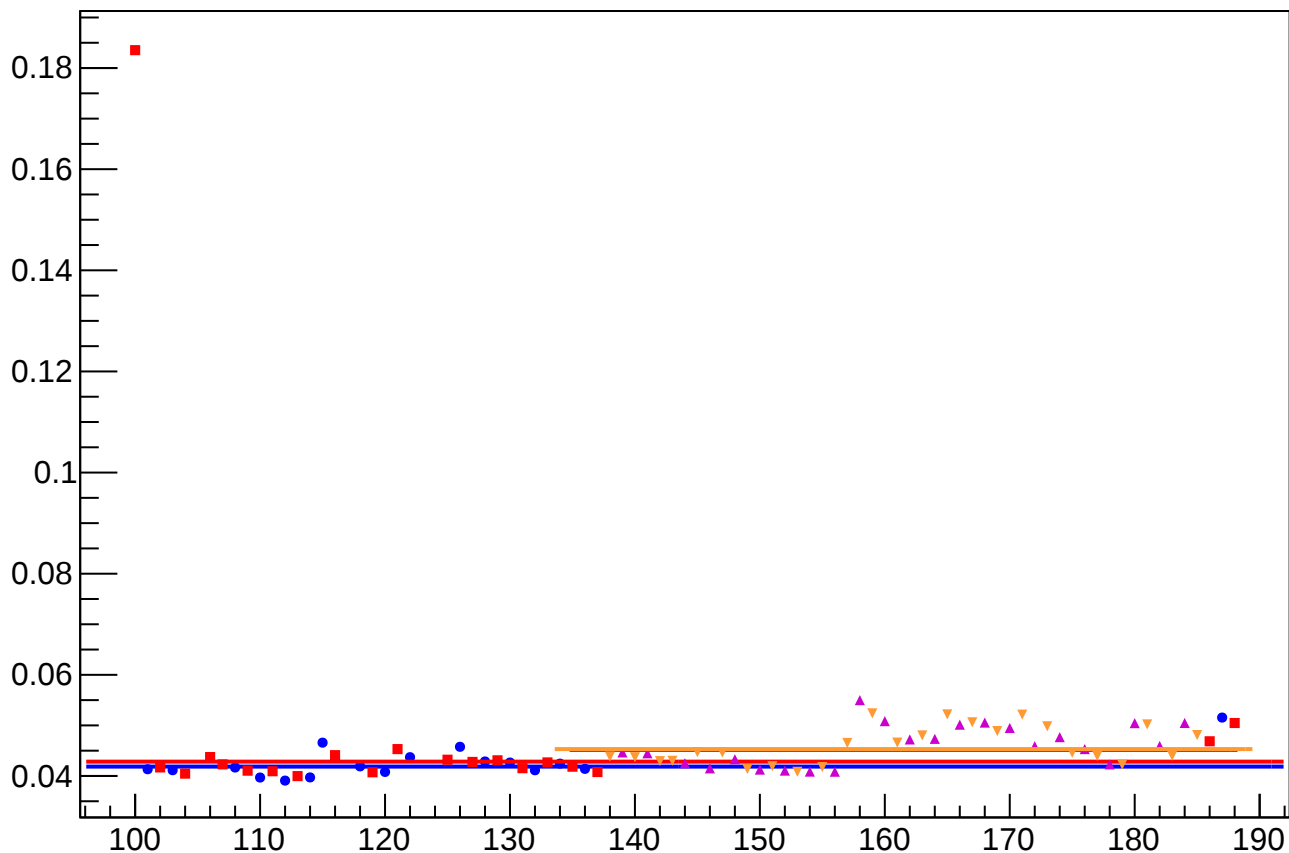
Left In: 83.309+/-0.000

χ^2/NDF : 8421247810.9/22

All: 82.138+/-0.000

χ^2/NDF : 4555473580098

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.042 $\pm$ 0.000 χ^2 /NDF: 30157.5/16

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:211358.2/24

Right Out: 0.043 $\pm$ 0.000 χ^2 /NDF: 148122.1/19

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

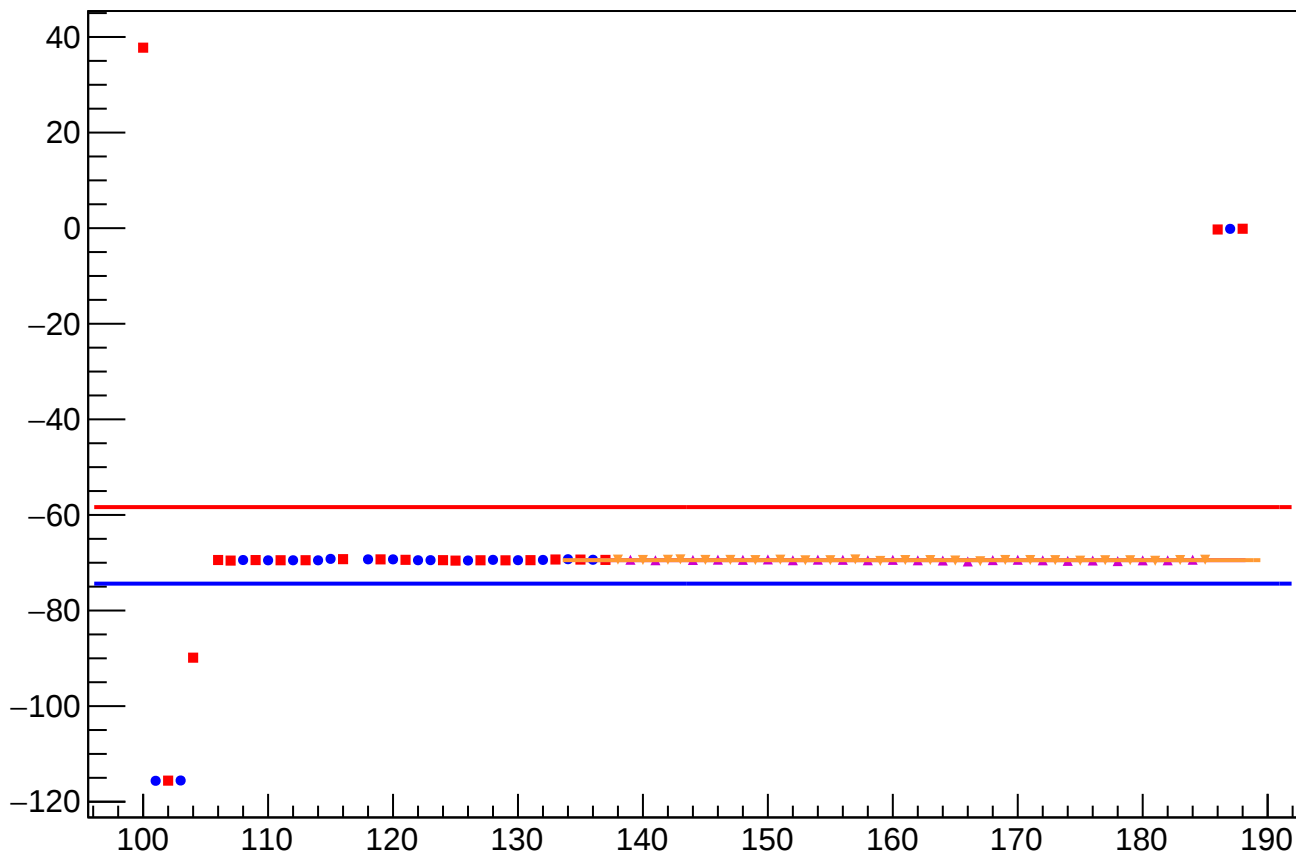
Right: 0.042 $\pm$ 0.000 χ^2 /NDF: 182203.0/36

In: 0.044 $\pm$ 0.000 χ^2 /NDF:329628.7/39

Out: 0.044 $\pm$ 0.000 χ^2 /NDF:395498.5/44

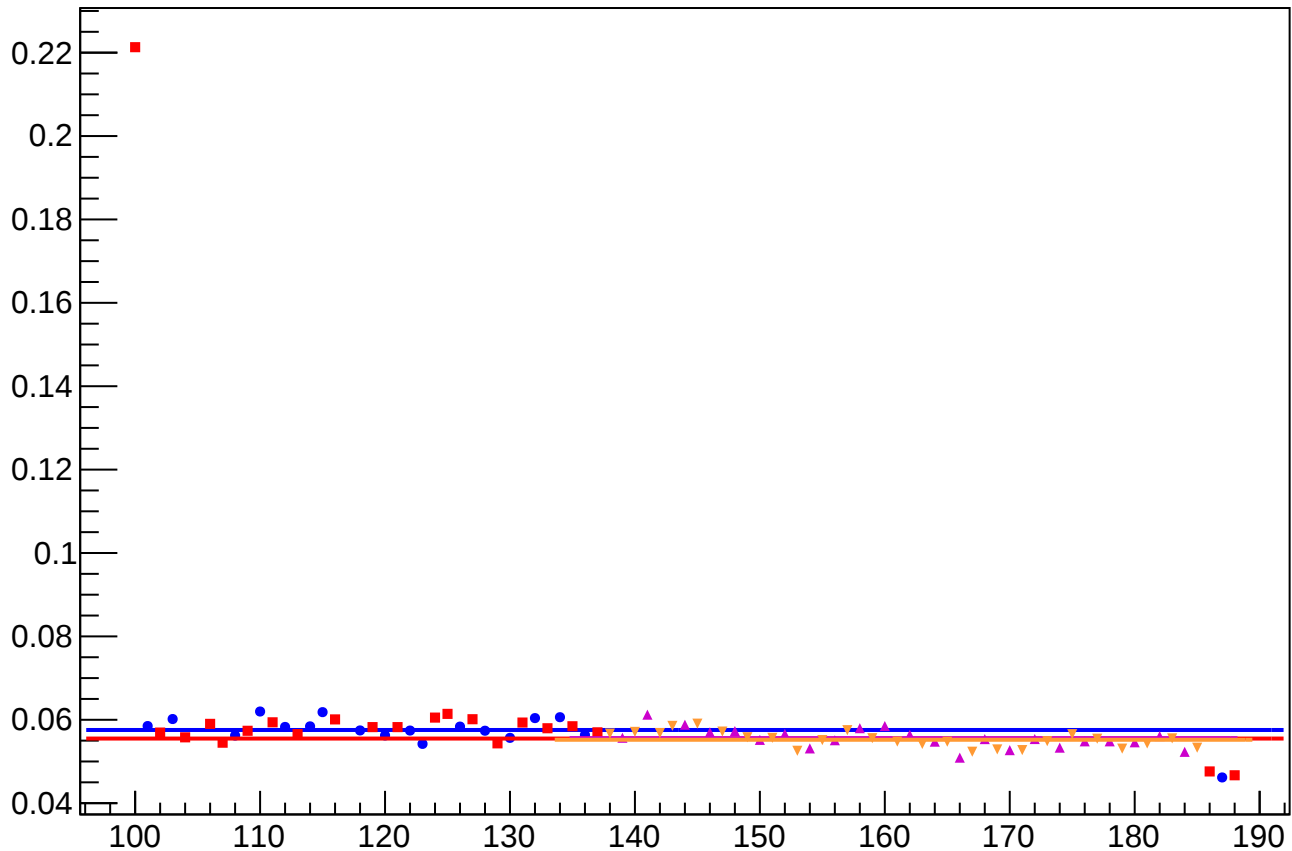
All: 0.044 $\pm$ 0.000 χ^2 /NDF: 726869.0/84

yield_dsr_mean vs Slug, Sign Corrected



Right In: -74.372+/-0.000	χ^2/NDF : 965769291800.4/17	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -65.268+/-0.000	χ^2/NDF : 4083454504662.6/17
Right Out: -58.360+/-0.000	χ^2/NDF : 2829252714468.4/20	In: -70.767+/-0.000	χ^2/NDF : 1000874946588.9/40
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -66.030+/-0.000	χ^2/NDF : 3051354804958.4/4
		All: -68.248+/-0.000	χ^2/NDF : 414086114719.0/100

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.058 $\pm$ 0.000 χ^2 /NDF: 31168.7/17

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 193703.1/20

Left In: 0.056 $\pm$ 0.000 χ^2 /NDF:52190.5/22

Left: 0.055 $\pm$ 0.000 χ^2 /NDF: 91784.6/47

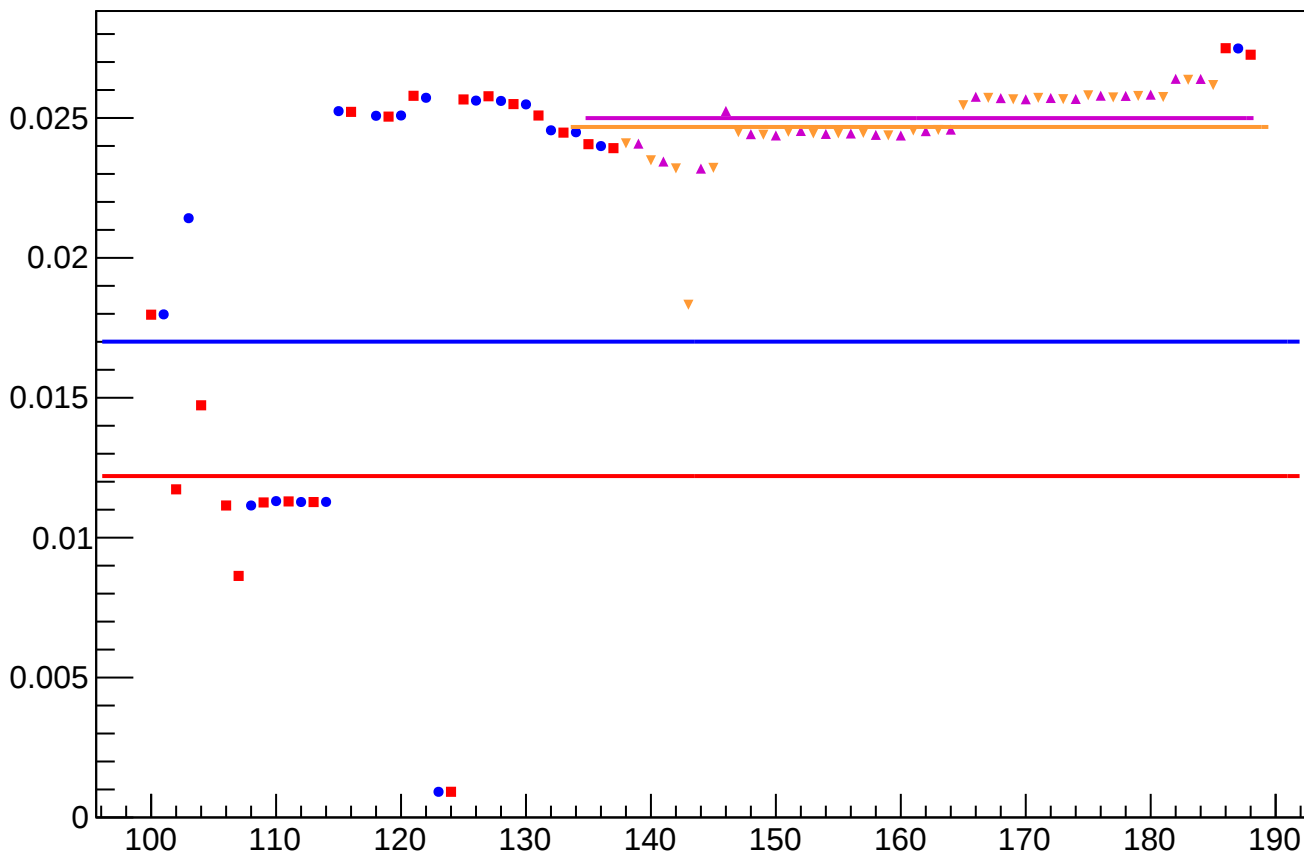
Right: 0.056 $\pm$ 0.000 χ^2 /NDF: 234379.1/38

In: 0.056 $\pm$ 0.000 χ^2 /NDF:94530.0/40

Out: 0.055 $\pm$ 0.000 χ^2 /NDF:232768.7/45

All: 0.056 $\pm$ 0.000 χ^2 /NDF: 332573.5/86

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.000

χ^2/NDF : 127816598265.5/17

Left: 0.025+/-0.000 χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.014+/-0.000 χ^2/NDF : 419367375197.1/38

Right Out: 0.012+/-0.000

χ^2/NDF : 268122670082.6/20

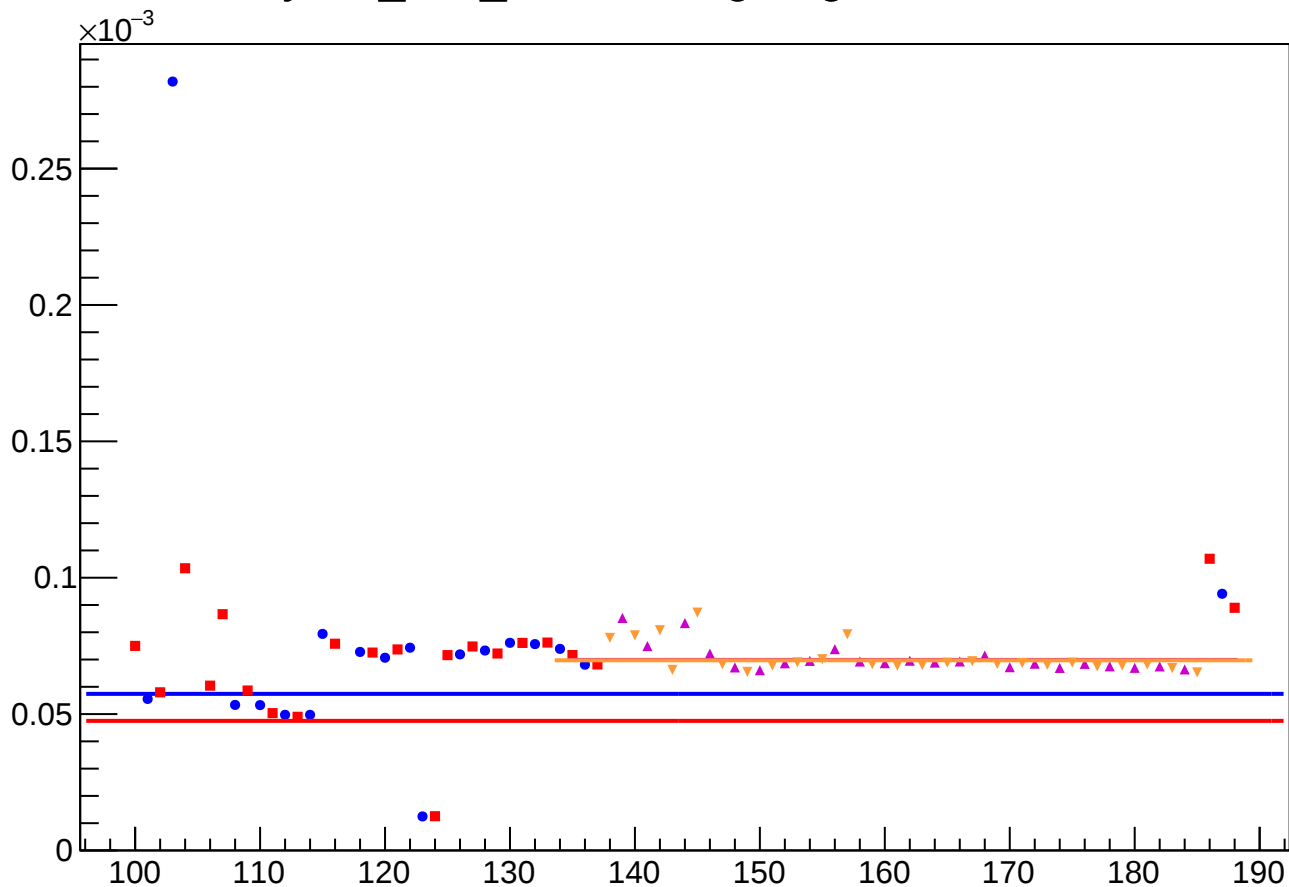
In: 0.022+/-0.000 χ^2/NDF : 203226466519.9/40

Out: 0.020+/-0.000 χ^2/NDF : 512495806029.5/45

Left In: 0.025+/-0.000 χ^2/NDF : 2462473687.7/22

All: 0.021+/-0.000 χ^2/NDF : 737733017752.4

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2042248.4/17

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 4235985.0/20

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

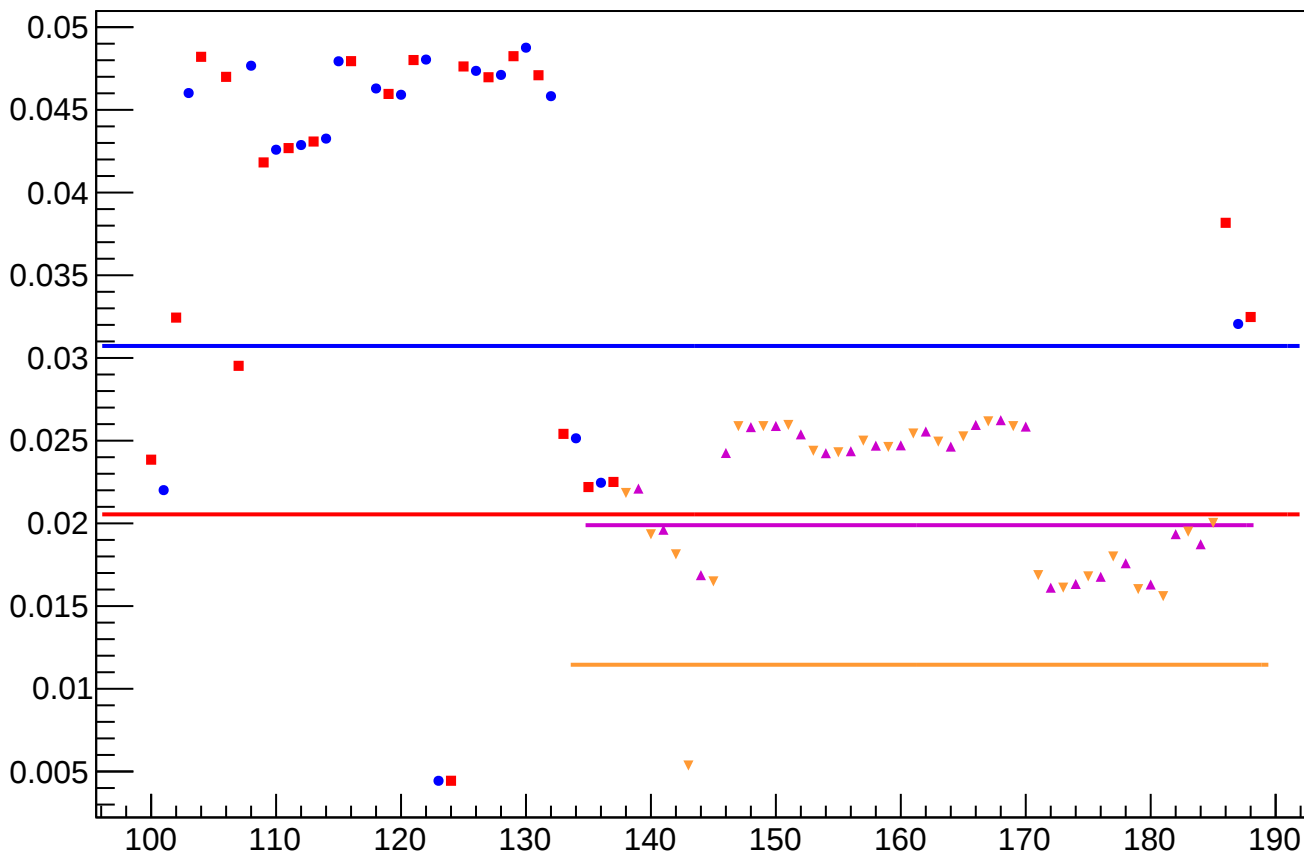
Right: 0.000+/-0.000 χ^2/NDF : 6476881.5/38

In: 0.000+/-0.000 χ^2/NDF :2525484.6/40

Out: 0.000+/-0.000 χ^2/NDF :5879565.0/45

All: 0.000+/-0.000 χ^2/NDF : 8553054.4/86

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 21083230817.1/17

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.024+/-0.000

χ^2/NDF : 66456972457.5/38

Right Out: 0.021+/-0.000

χ^2/NDF : 40694182430.2/20

In: 0.022+/-0.000

χ^2/NDF : 32283642016.5/40

Out: 0.013+/-0.000

χ^2/NDF : 89639419441.2/45

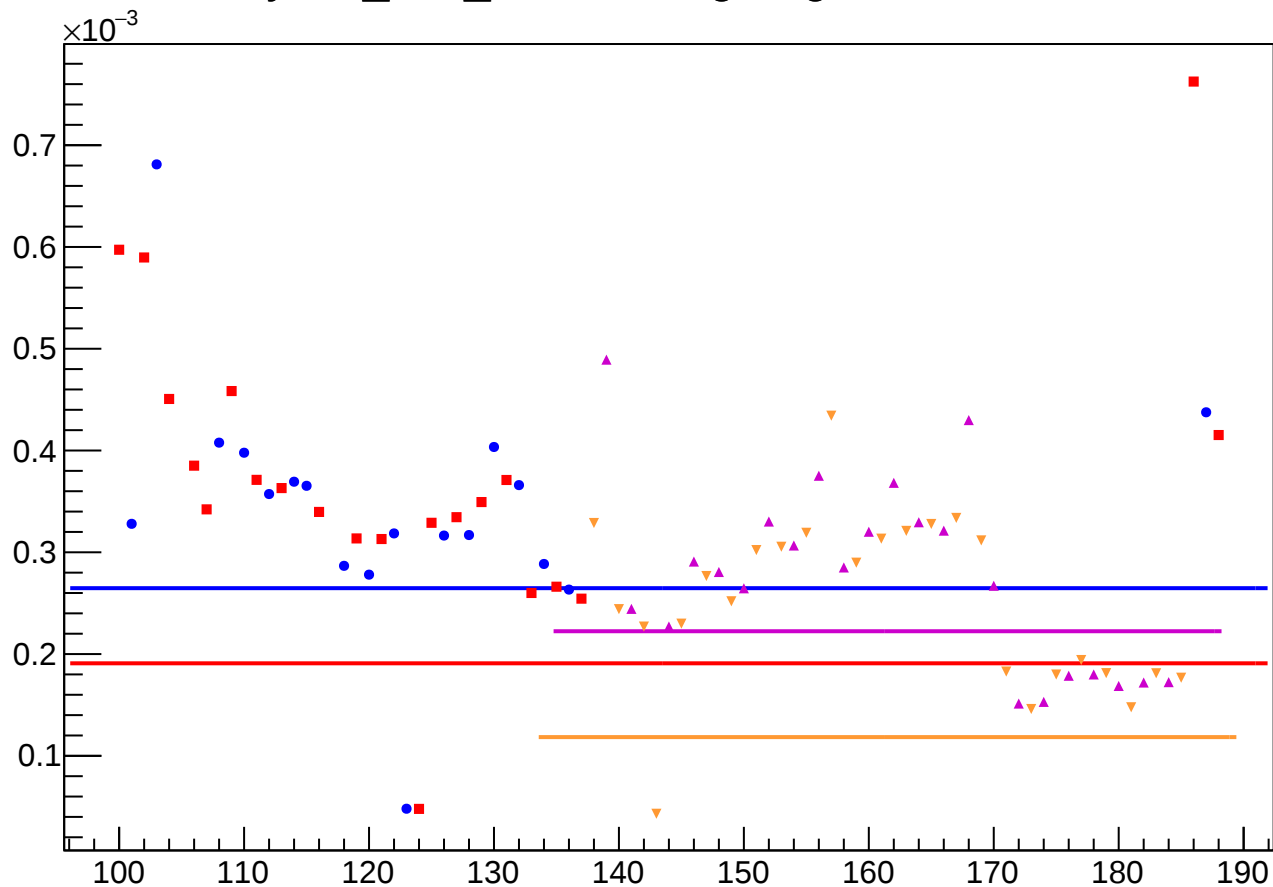
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 143564306026.1

yield_atl2_rms vs Slug, Sign Corrected

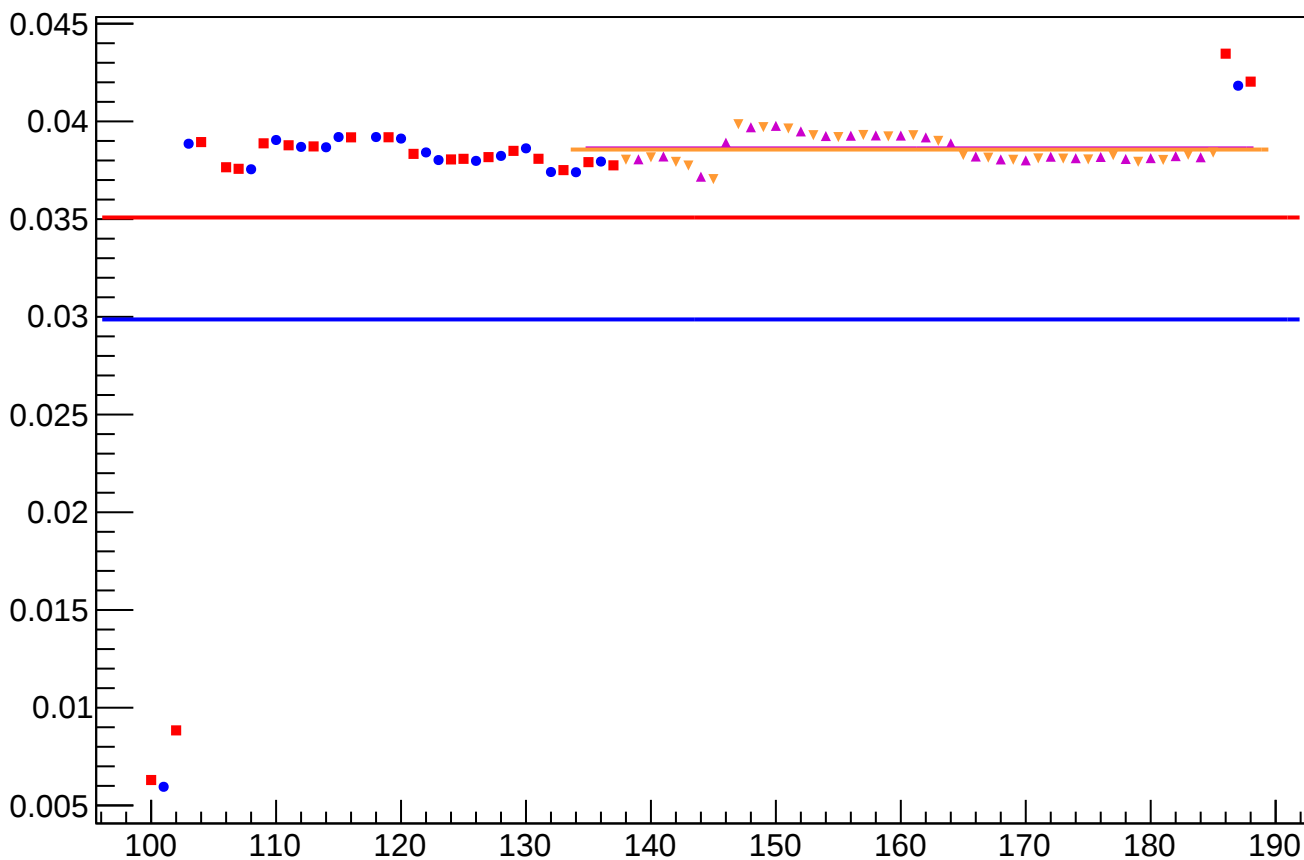


Right In: 0.000+/-0.000 χ^2/NDF : 2438660.0/17
 Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 6279911.2/20
 Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47
 Right: 0.000+/-0.000 χ^2/NDF : 9210731.7/38
 In: 0.000+/-0.000 χ^2/NDF :5925417.5/40
 Out: 0.000+/-0.000 χ^2/NDF :20943762.9/45

All: 0.000+/-0.000 χ^2/NDF : 32120921.3/86

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000

χ^2/NDF : 97408977874.3/17

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.032+/-0.000

χ^2/NDF : 149167178570.0/38

Right Out: 0.035+/-0.000

χ^2/NDF : 45383618199.8/20

In: 0.036+/-0.000

χ^2/NDF : 122675941274.3/40

Out: 0.038+/-0.000

χ^2/NDF : 49836831733.5/45

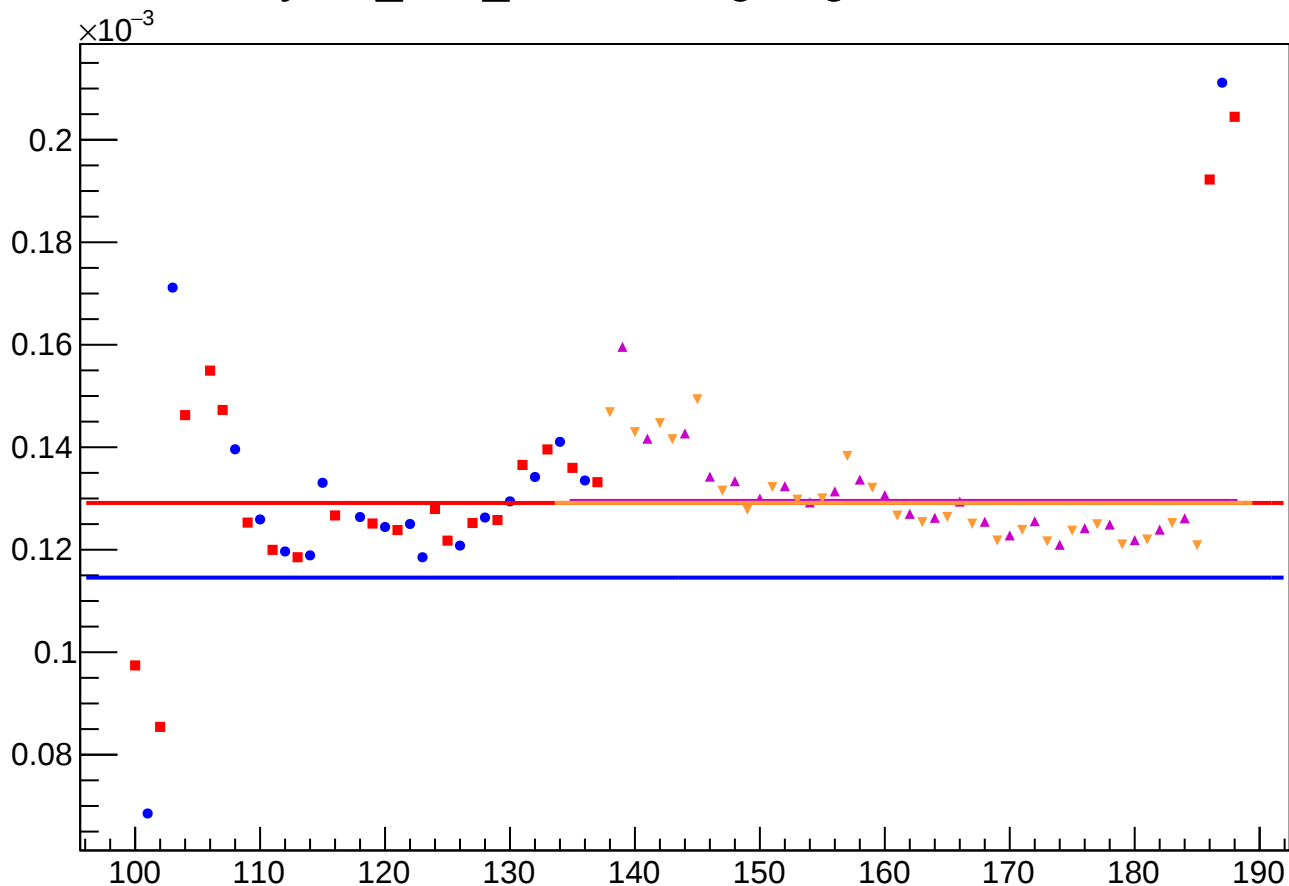
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.037+/-0.000

χ^2/NDF : 174661542431.6

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 854295.2/17

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 585839.4/20

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

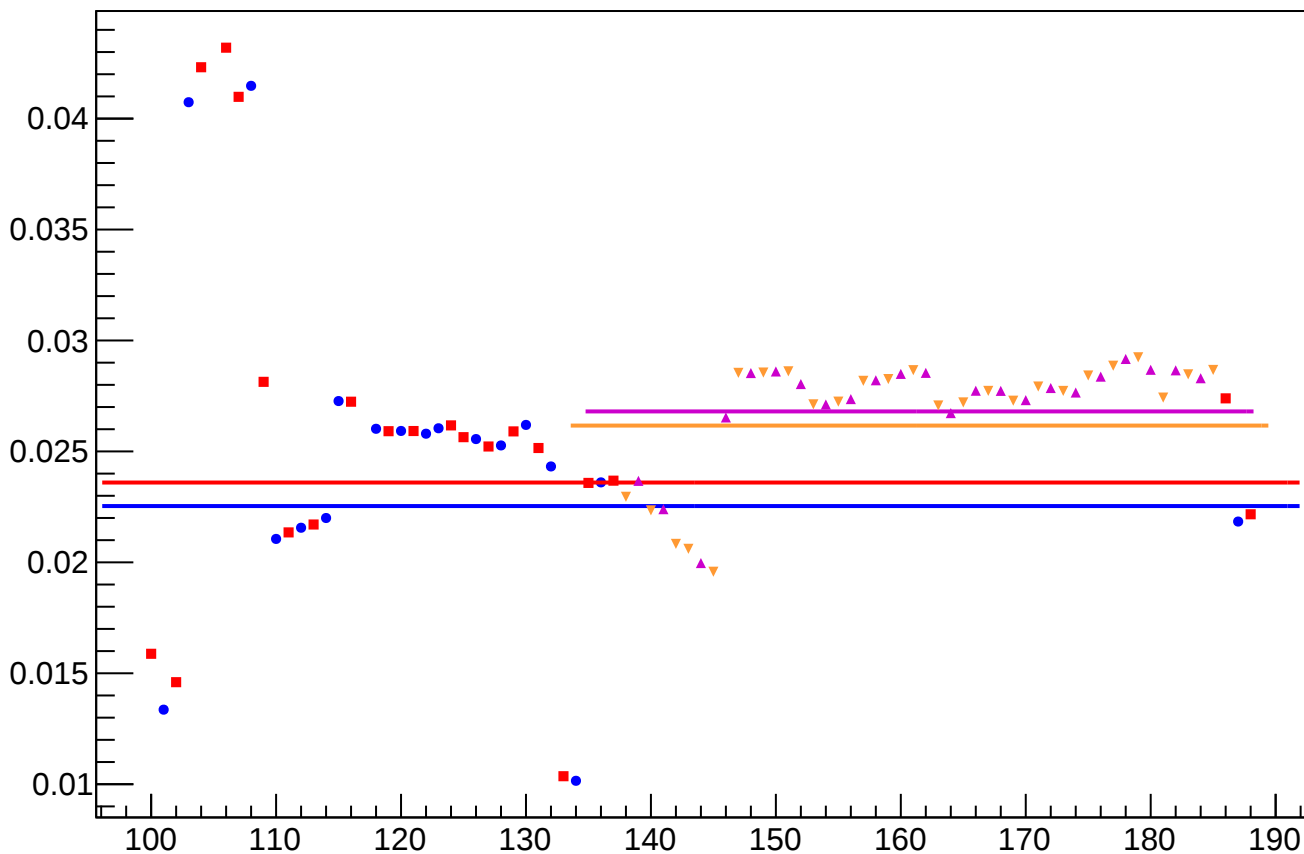
Right: 0.000+/-0.000 χ^2/NDF : 1539638.9/38

In: 0.000+/-0.000 χ^2/NDF :1114176.7/40

Out: 0.000+/-0.000 χ^2/NDF :716161.2/45

All: 0.000+/-0.000 χ^2/NDF : 1859418.0/86

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023 $\pm$ 0.000 χ^2 /NDF: 4236594109.3/17

Left Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 2056710635.1/24

Right Out: 0.024 $\pm$ 0.000 χ^2 /NDF: 5679700212.9/20

Left In: 0.027 $\pm$ 0.000 χ^2 /NDF: 1332033607.7/22

Left: 0.026 $\pm$ 0.000 χ^2 /NDF: 3427924441.4/47

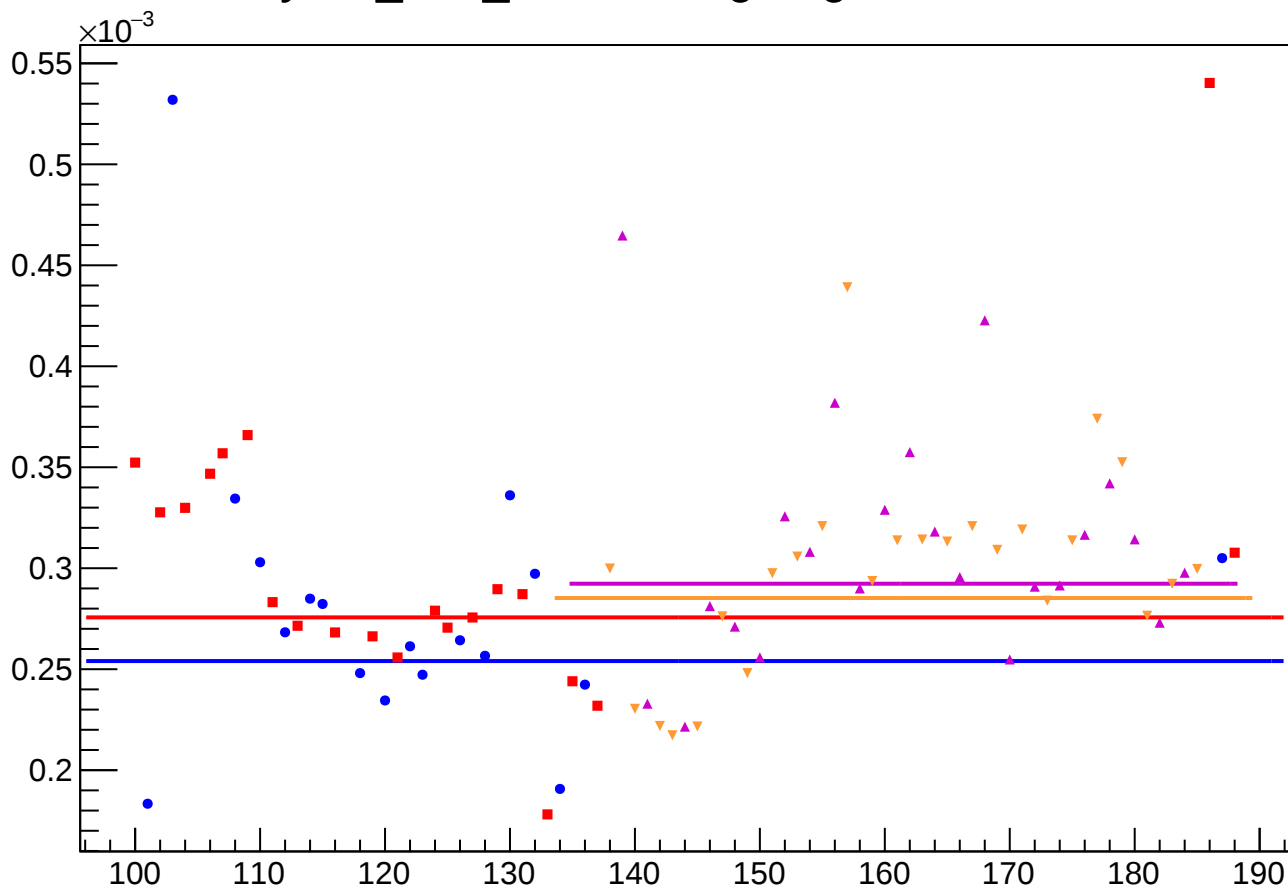
Right: 0.023 $\pm$ 0.000 χ^2 /NDF: 9968547658.9/38

In: 0.025 $\pm$ 0.000 χ^2 /NDF: 6681597053.2/40

Out: 0.025 $\pm$ 0.000 χ^2 /NDF: 8160274807.9/45

All: 0.025 $\pm$ 0.000 χ^2 /NDF: 14842160218.6/8

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 634313.6/17

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 631795.5/20

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

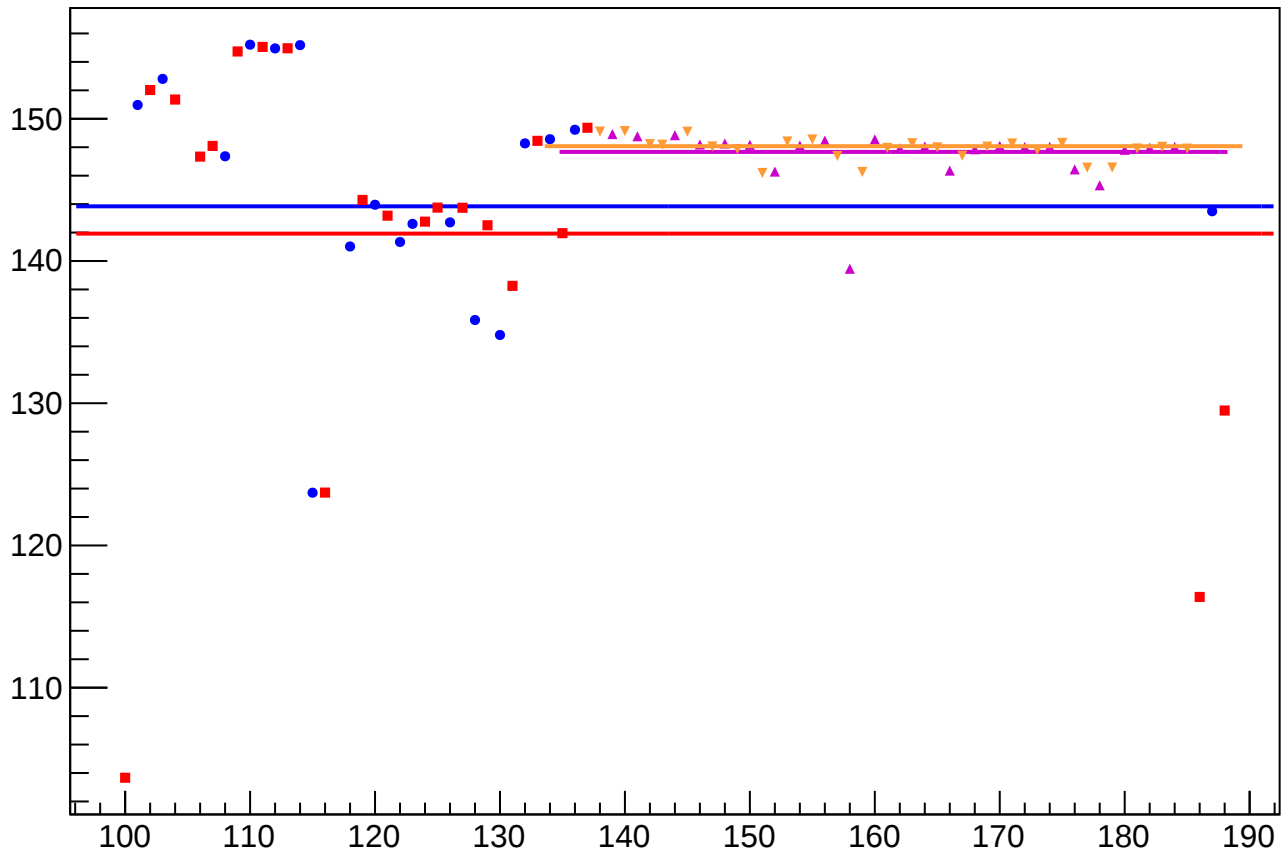
Right: 0.000+/-0.000 χ^2/NDF : 1309584.3/38

In: 0.000+/-0.000 χ^2/NDF :1712557.2/40

Out: 0.000+/-0.000 χ^2/NDF :1457114.9/45

All: 0.000+/-0.000 χ^2/NDF : 3171524.4/86

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.844 $\pm$ 0.000 χ^2 /NDF: 3450901370.2/17

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 141.927 $\pm$ 0.000 χ^2 /NDF: 7196658352.4/20

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

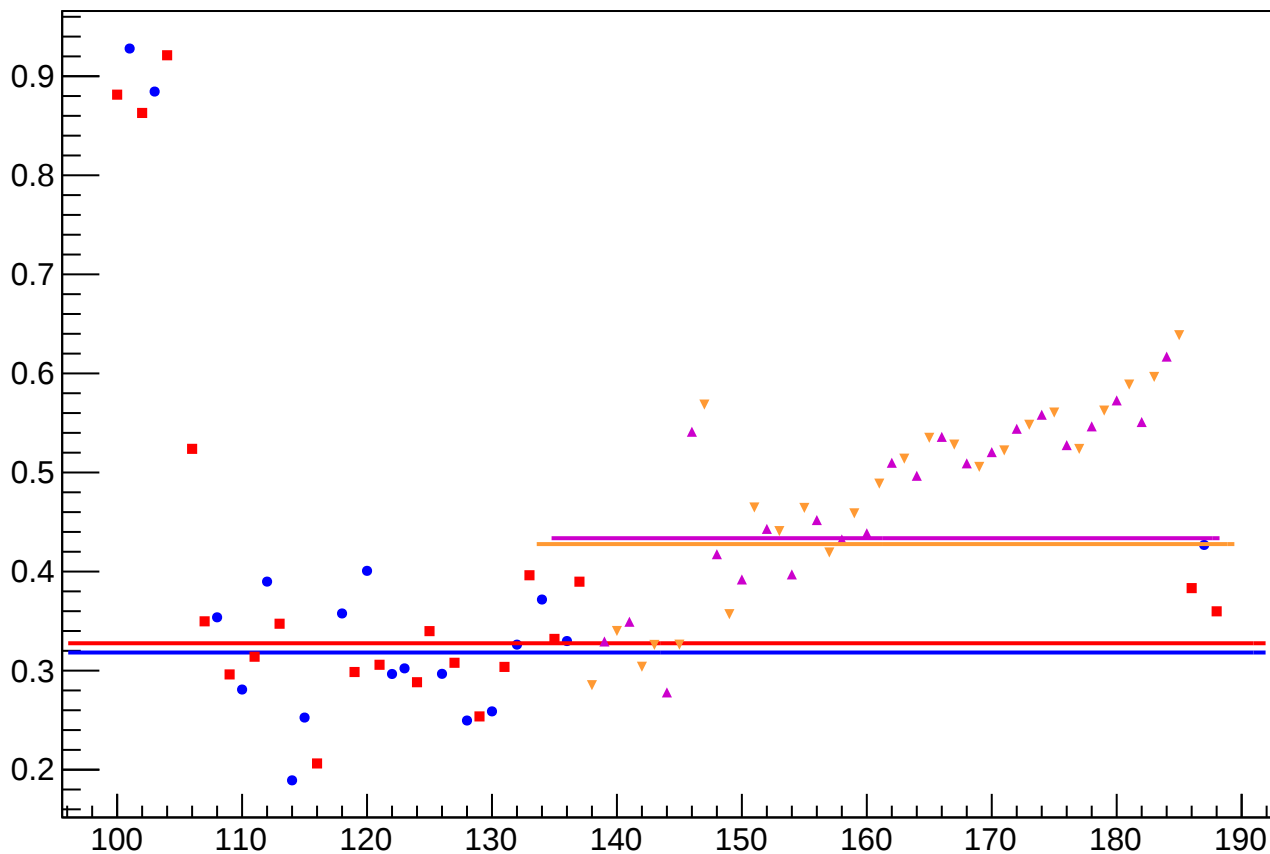
Right: 142.810 $\pm$ 0.000 χ^2 /NDF: 10758542308.1/38

In: 146.167 $\pm$ 0.000 χ^2 /NDF: 4293343887.3/40

Out: 145.528 $\pm$ 0.000 χ^2 /NDF: 8713419056.8/45

All: 145.831 $\pm$ 0.000 χ^2 /NDF: 13037363905.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.318 $\pm$ 0.000 χ^2 /NDF: 1278758.6/17

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.328 $\pm$ 0.000 χ^2 /NDF: 1249917.3/20

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1496343.5/22

Left: 0.431 $\pm$ 0.000 χ^2 /NDF: 3396308.8/47

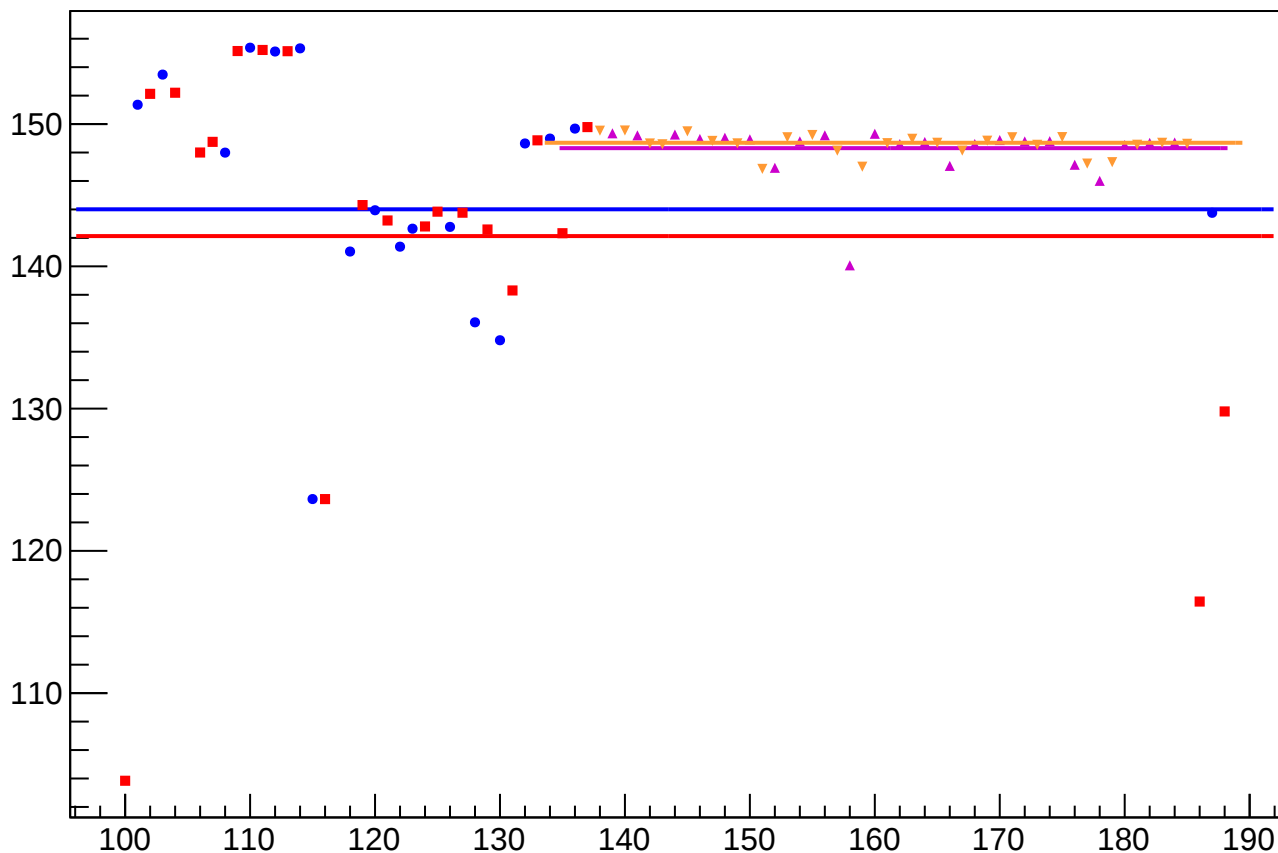
Right: 0.323 $\pm$ 0.000 χ^2 /NDF: 2533951.1/38

In: 0.388 $\pm$ 0.000 χ^2 /NDF:3679571.5/40

Out: 0.386 $\pm$ 0.000 χ^2 /NDF:3916584.1/45

All: 0.387 $\pm$ 0.000 χ^2 /NDF: 7596786.4/86

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.009 $\pm$ 0.000 χ^2 /NDF: 3495334786.9/17

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 142.127 $\pm$ 0.000 χ^2 /NDF: 7139933054.0/20

Left In: 148.307 $\pm$ 0.000 χ^2 /NDF: 333585558.2/22

Left: 148.504 $\pm$ 0.000 χ^2 /NDF: 392094013.2/47

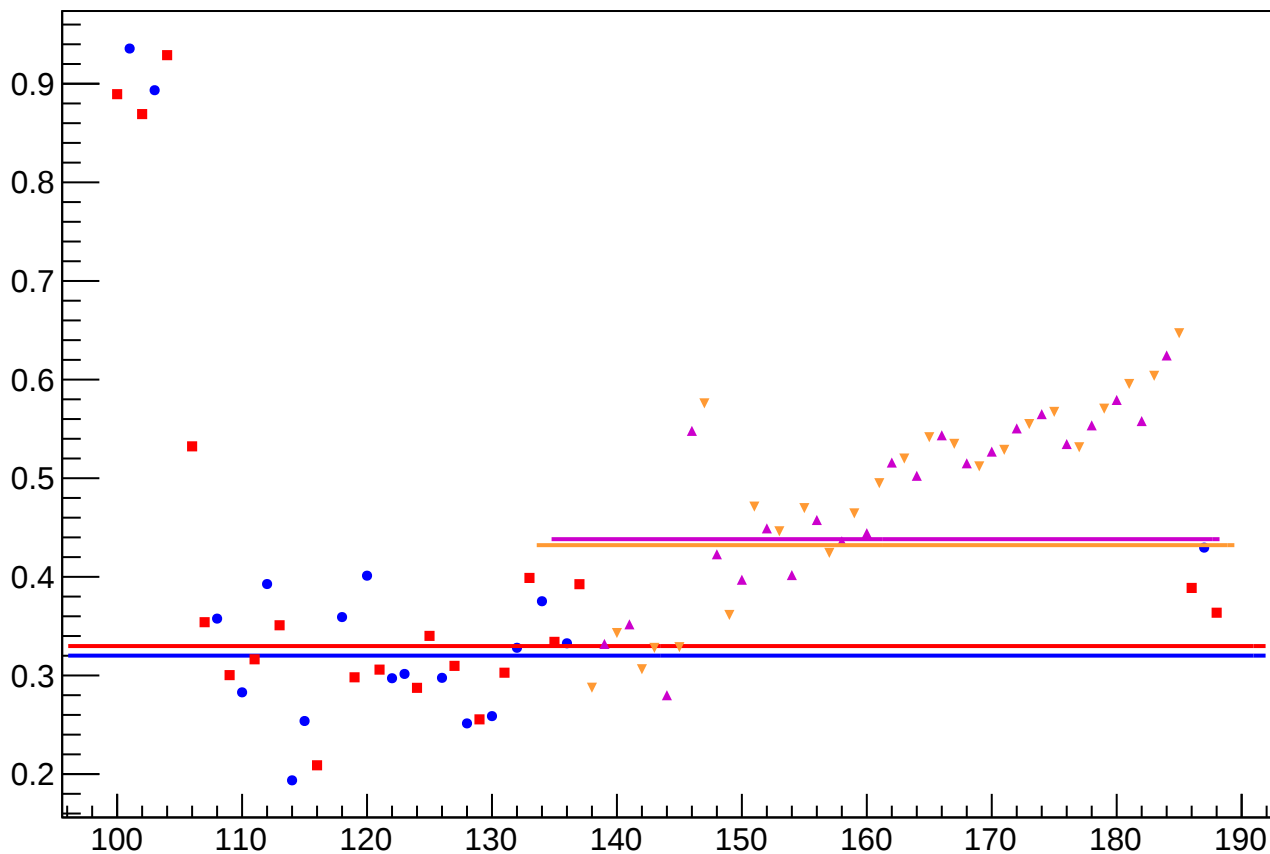
Right: 142.994 $\pm$ 0.000 χ^2 /NDF: 10740896809.2/38

In: 146.609 $\pm$ 0.000 χ^2 /NDF: 4446762499.5/40

Out: 145.958 $\pm$ 0.000 χ^2 /NDF: 8817471356.2/45

All: 146.266 $\pm$ 0.000 χ^2 /NDF: 13295374518.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.320 $\pm$ 0.000 χ^2 /NDF: 1280604.8/17

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.330 $\pm$ 0.000 χ^2 /NDF: 1255047.3/20

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

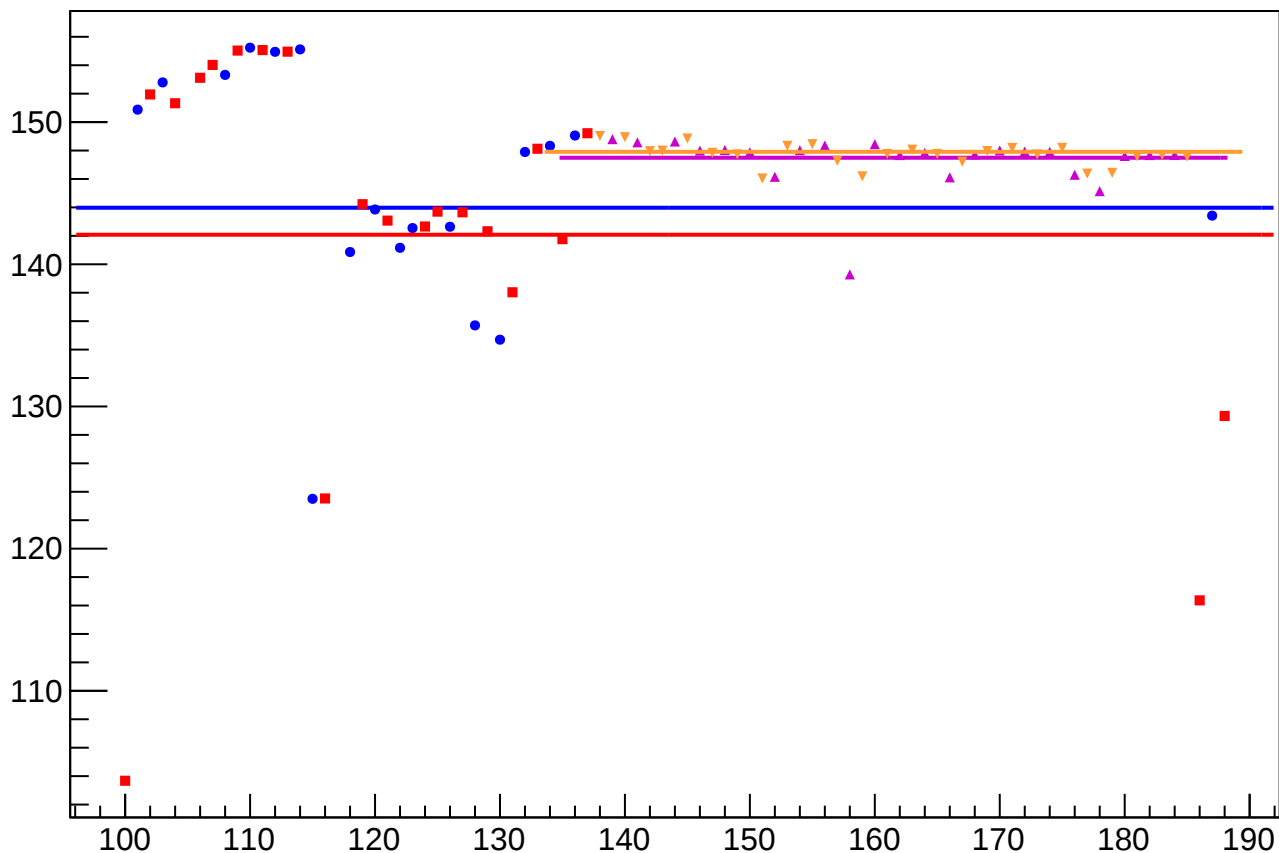
Right: 0.325 $\pm$ 0.000 χ^2 /NDF: 2541260.0/38

In: 0.392 $\pm$ 0.000 χ^2 /NDF:3735280.2/40

Out: 0.390 $\pm$ 0.000 χ^2 /NDF:3974902.9/45

All: 0.391 $\pm$ 0.000 χ^2 /NDF: 7710746.8/86

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.978 $\pm$ 0.000 χ^2 /NDF: 3664714423.1/17

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.079 $\pm$ 0.000 χ^2 /NDF: 7590385785.8/20

Left In: 147.493 $\pm$ 0.000 χ^2 /NDF: 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2 /NDF: 416149781.4/47

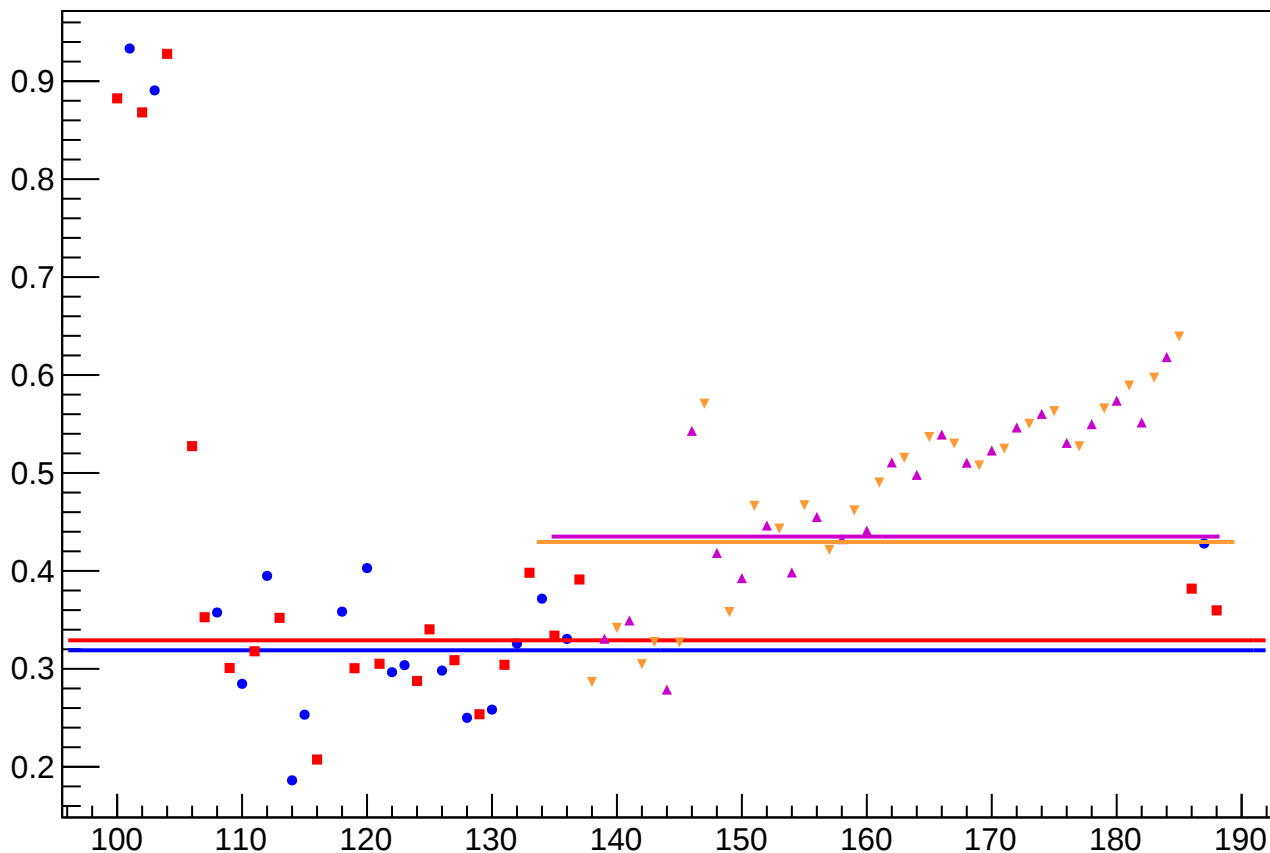
Right: 142.955 $\pm$ 0.000 χ^2 /NDF: 11363167302.2/38

In: 146.112 $\pm$ 0.000 χ^2 /NDF: 4425852206.5/40

Out: 145.498 $\pm$ 0.000 χ^2 /NDF: 8950149299.6/45

All: 145.789 $\pm$ 0.000 χ^2 /NDF: 13404080018.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.319 $\pm$ 0.000 χ^2/NDF : 1293427.2/17

Left Out: 0.430 $\pm$ 0.000 χ^2/NDF :1895701.4/24

Right Out: 0.329 $\pm$ 0.000 χ^2/NDF : 1251399.2/20

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

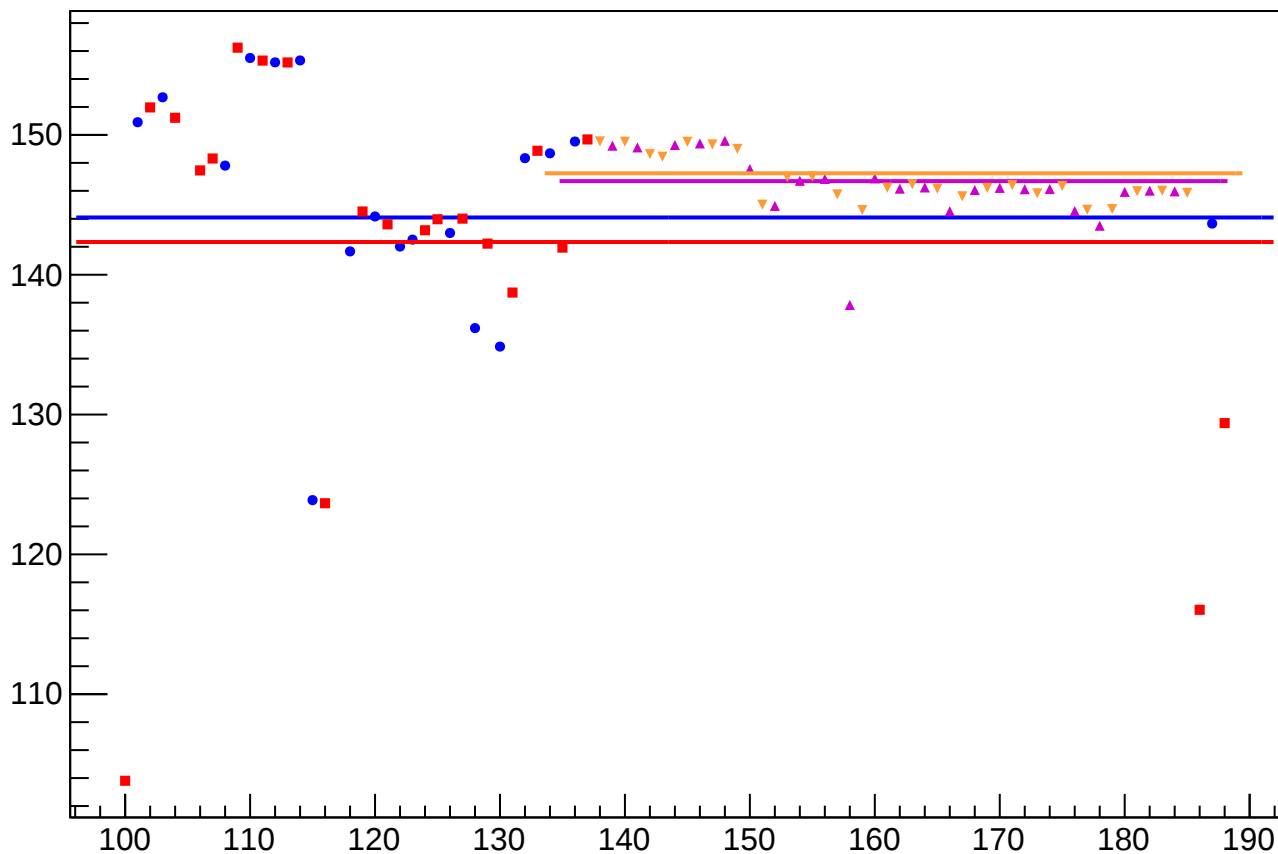
Right: 0.324 $\pm$ 0.000 χ^2/NDF : 2551050.0/38

In: 0.389 $\pm$ 0.000 χ^2/NDF :3705936.5/40

Out: 0.388 $\pm$ 0.000 χ^2/NDF :3914191.6/45

All: 0.389 $\pm$ 0.000 χ^2/NDF : 7620439.5/86

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.095 $\pm$ 0.000 χ^2 /NDF: 3163390532.0/17

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 142.341 $\pm$ 0.000 χ^2 /NDF: 6899688022.9/20

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

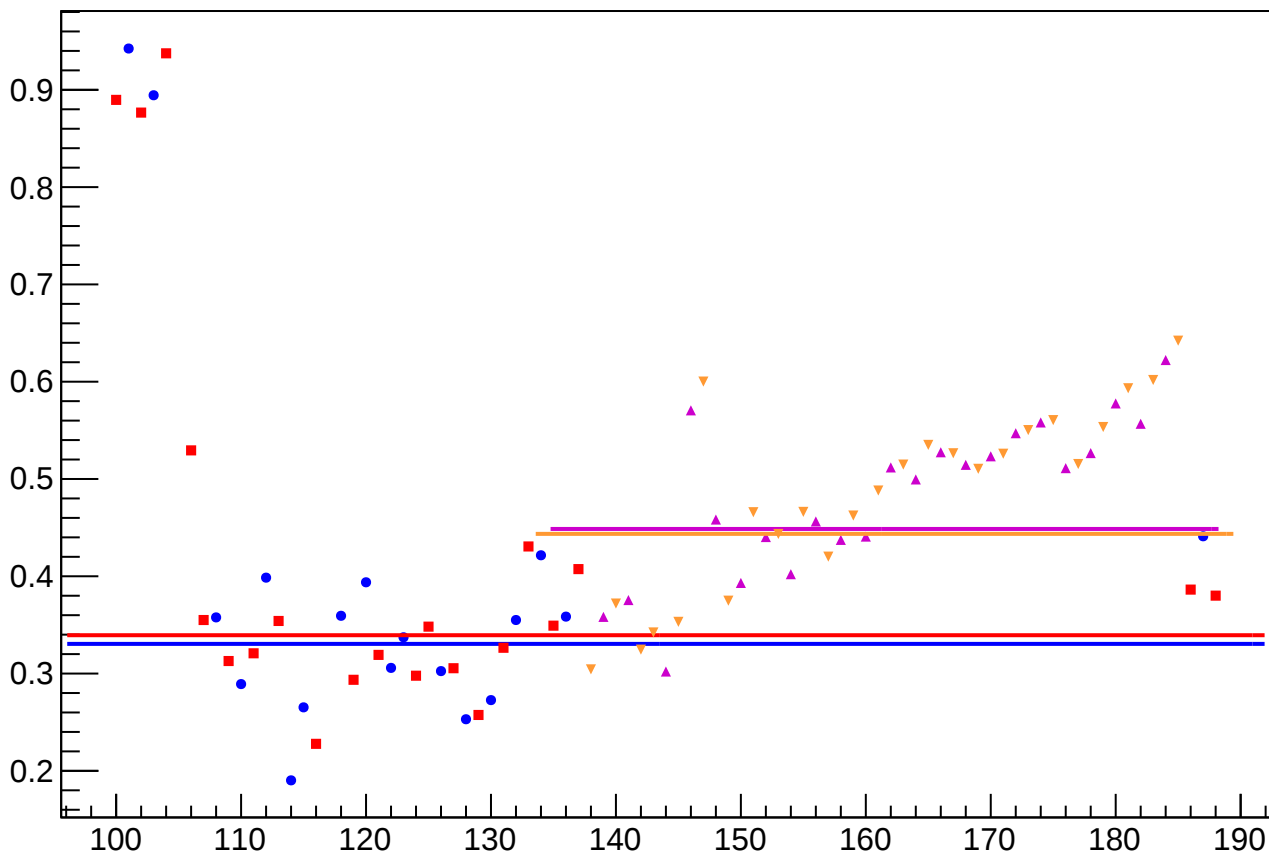
Right: 143.146 $\pm$ 0.000 χ^2 /NDF: 10149166523.5/38

In: 145.688 $\pm$ 0.000 χ^2 /NDF: 3935149355.9/40

Out: 145.232 $\pm$ 0.000 χ^2 /NDF: 8027700799.2/45

All: 145.448 $\pm$ 0.000 χ^2 /NDF: 11977417478.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.330 $\pm$ 0.000 χ^2 /NDF: 1277128.4/17

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.339 $\pm$ 0.000 χ^2 /NDF: 1216388.7/20

Left In: 0.449 $\pm$ 0.000 χ^2 /NDF:1132620.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2618207.6/47

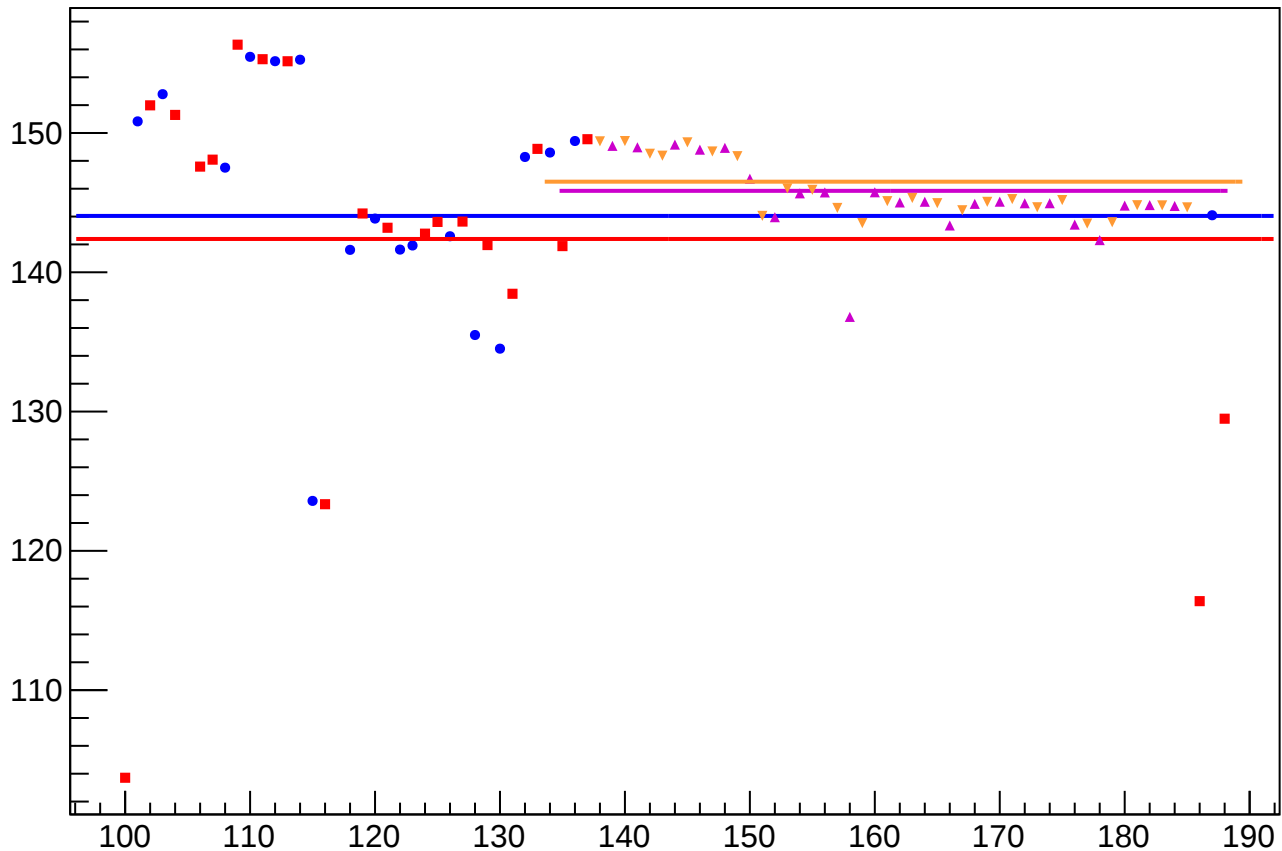
Right: 0.335 $\pm$ 0.000 χ^2 /NDF: 2497961.3/38

In: 0.403 $\pm$ 0.000 χ^2 /NDF:3292770.6/40

Out: 0.401 $\pm$ 0.000 χ^2 /NDF:3477988.8/45

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 6771403.1/86

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.046 $\pm$ 0.000 χ^2 /NDF: 3282868996.9/17

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 142.391 $\pm$ 0.000 χ^2 /NDF: 688122235.2/20

Left In: 145.847 $\pm$ 0.000 χ^2 /NDF: 694764545.6/22

Left: 146.187 $\pm$ 0.000 χ^2 /NDF: 1114638549.0/47

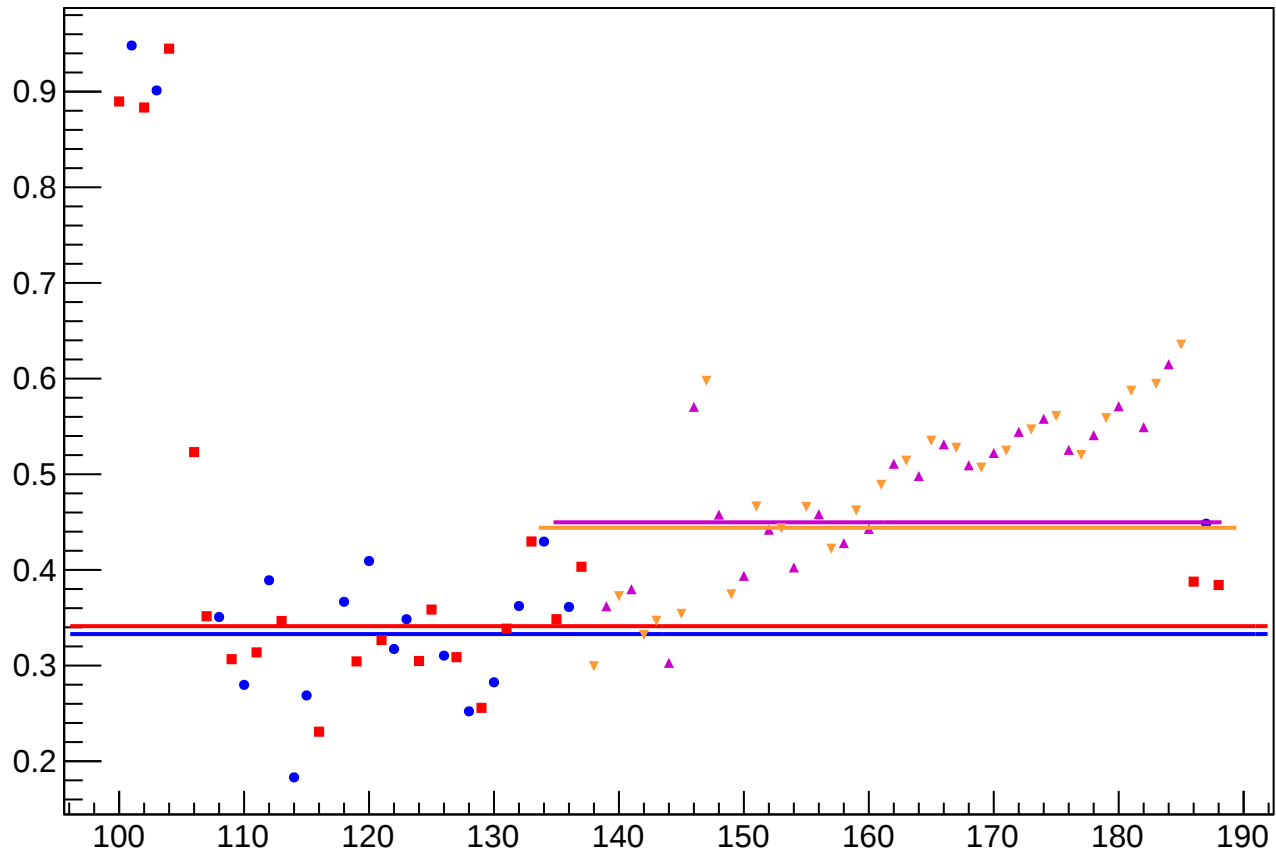
Right: 143.148 $\pm$ 0.000 χ^2 /NDF: 10239495083.1/38

In: 145.154 $\pm$ 0.000 χ^2 /NDF: 4078805104.3/40

Out: 144.821 $\pm$ 0.000 χ^2 /NDF: 7884730597.1/45

All: 144.979 $\pm$ 0.000 χ^2 /NDF: 11971246735.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.333 ± 0.000 χ^2/NDF : 1294083.1/17

Left Out: 0.444 ± 0.000 χ^2/NDF : 1463293.5/24

Right Out: 0.341 ± 0.000 χ^2/NDF : 1206745.1/20

Left In: 0.450 ± 0.000 χ^2/NDF : 1105405.0/22

Left: 0.447 ± 0.000 χ^2/NDF : 2571486.5/47

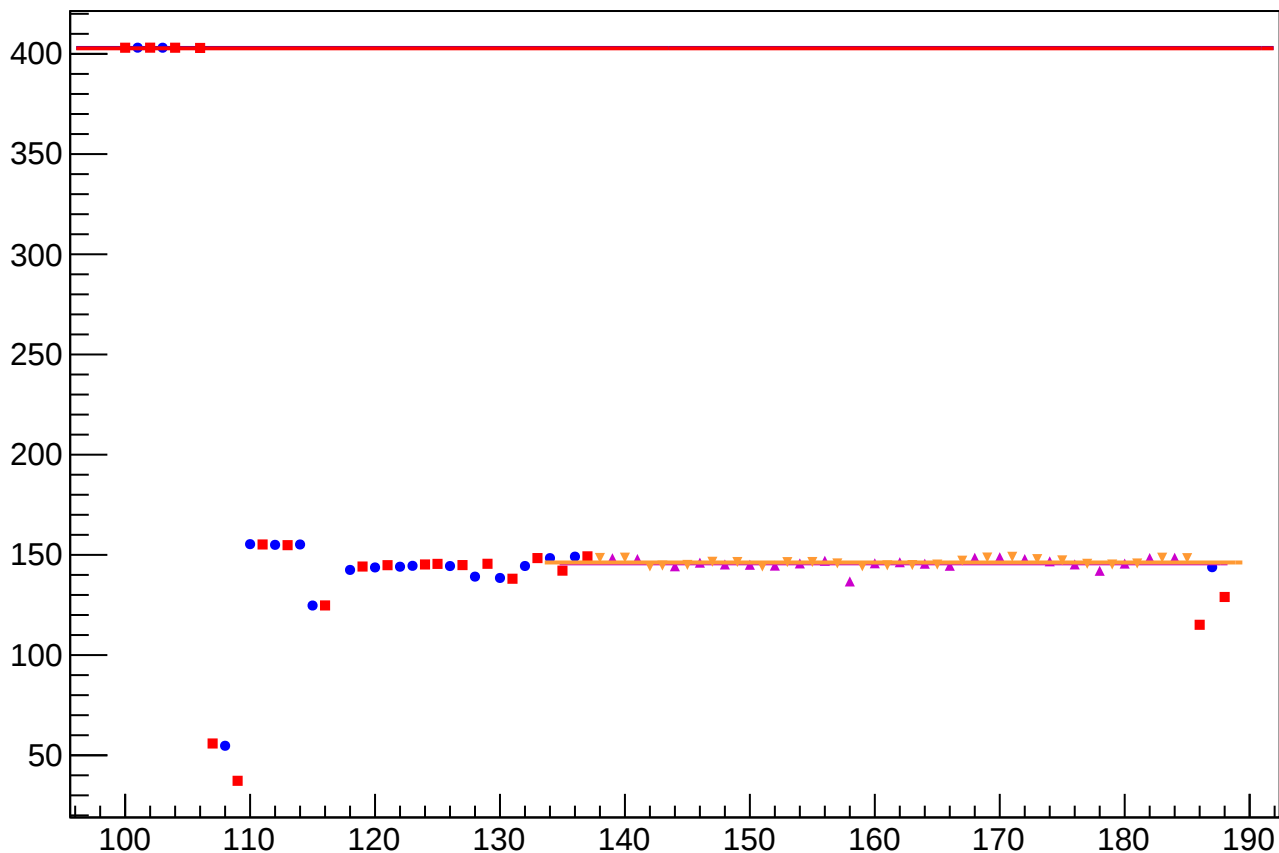
Right: 0.337 ± 0.000 χ^2/NDF : 2504593.4/38

In: 0.405 ± 0.000 χ^2/NDF : 3251838.8/40

Out: 0.402 ± 0.000 χ^2/NDF : 3421892.1/45

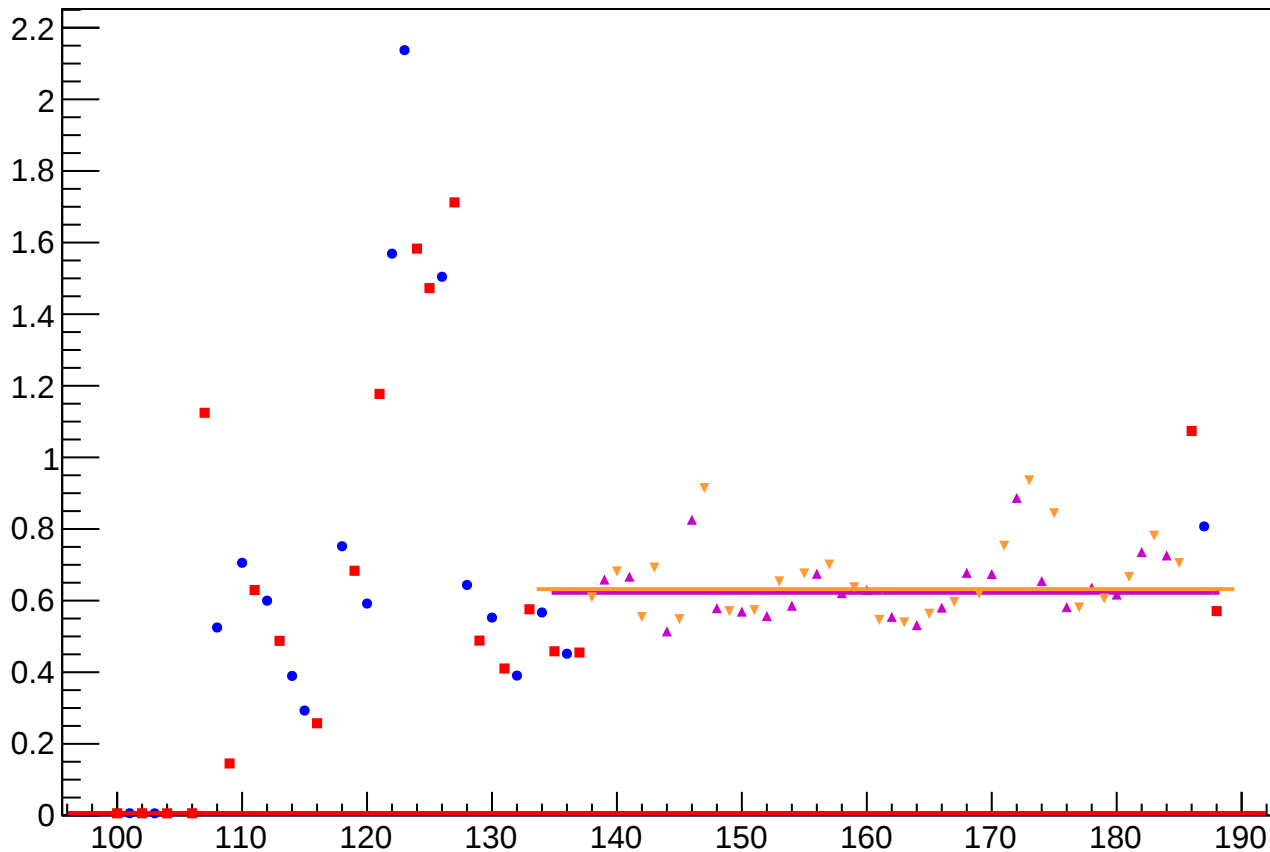
All: 0.403 ± 0.000 χ^2/NDF : 6674908.8/86

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.956+/-0.000 χ^2/NDF : 1107914005459.9/17
Left Out: 146.205+/-0.000 χ^2/NDF : 86658381.3/24
Right Out: 402.779+/-0.000 χ^2/NDF : 3298601664085.1/20
Left In: 145.773+/-0.000 χ^2/NDF : 207332354.9/22
Left: 145.990+/-0.000 χ^2/NDF : 297342055.1/47
Right: 402.862+/-0.000 χ^2/NDF : 4407035899748.9/17
In: 402.663+/-0.000 χ^2/NDF : 3457915726420.0/40
Out: 402.517+/-0.000 χ^2/NDF : 5667609784212.3/40
All: 402.585+/-0.000 χ^2/NDF : 912587779834.0/87

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 9283712.4/17

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 11245596.2/20

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:404479.0/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1022337.9/47

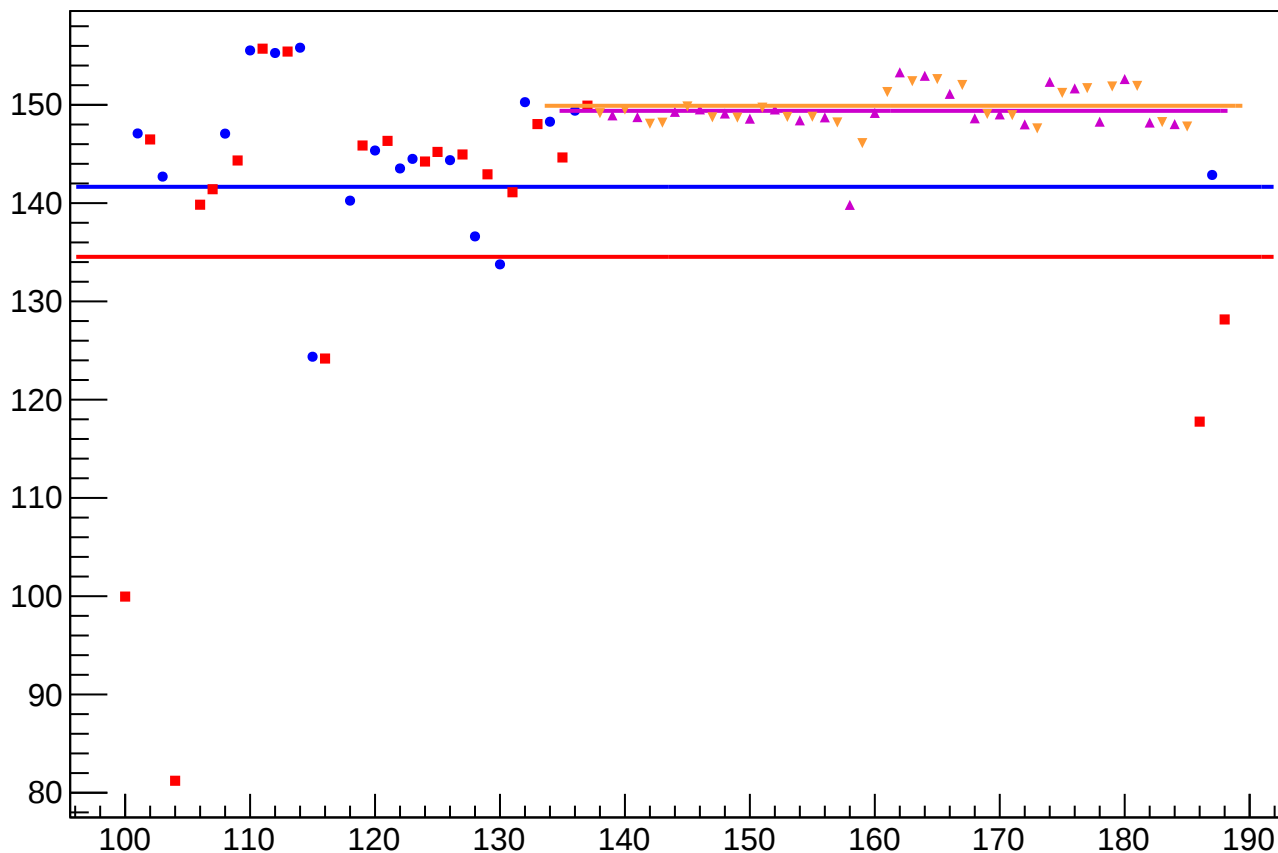
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 20529338.6/38

In: 0.007 $\pm$ 0.000 χ^2 /NDF:36613942.4/40

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:40039948.9/45

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 76653928.3/86

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.660 $\pm$ 0.000 χ^2 /NDF: 977777566.4/17

Left Out: 149.906 $\pm$ 0.000 χ^2 /NDF: 163261802.4/24

Right Out: 134.534 $\pm$ 0.000 χ^2 /NDF: 1726340819.6/20

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

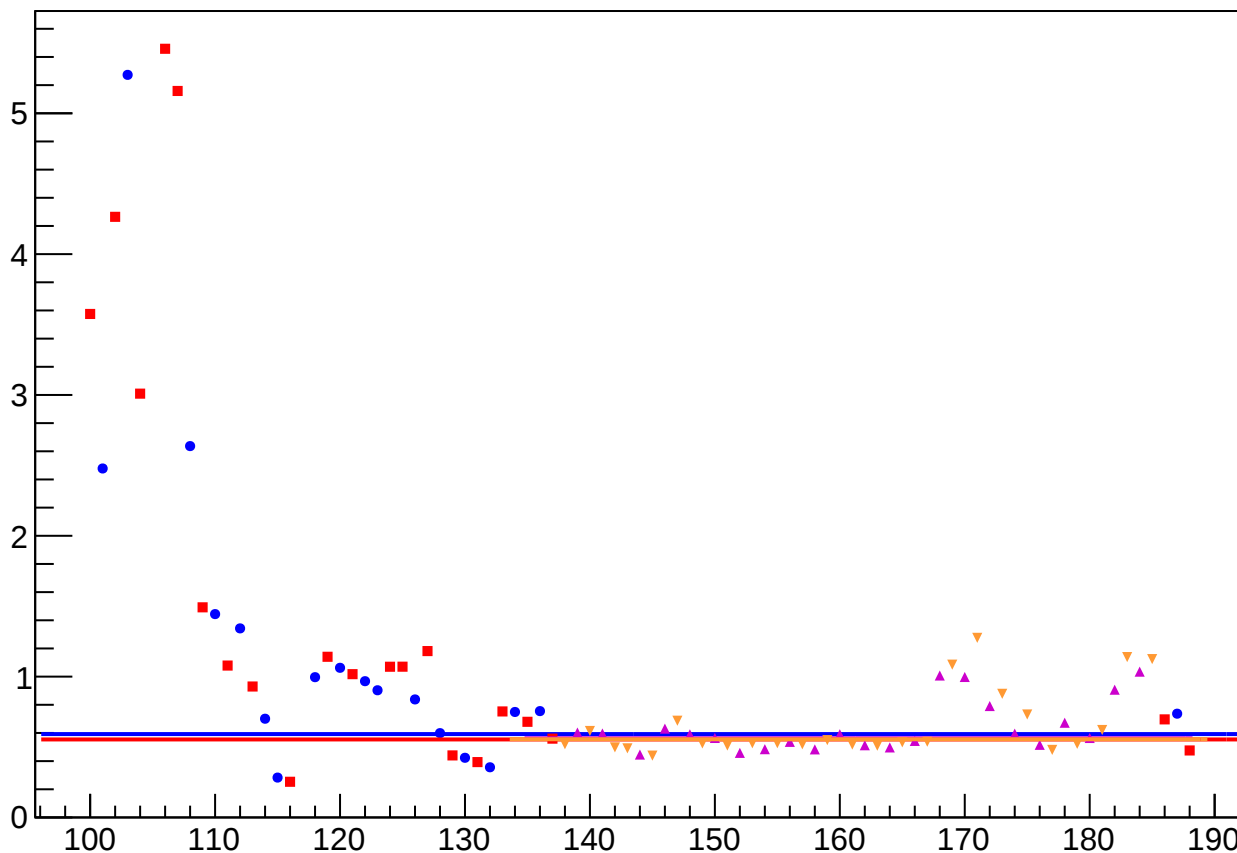
Right: 137.509 $\pm$ 0.000 χ^2 /NDF: 3010063500.3/38

In: 148.010 $\pm$ 0.000 χ^2 /NDF: 1922786997.8/40

Out: 146.512 $\pm$ 0.000 χ^2 /NDF: 4546629039.4/45

All: 147.216 $\pm$ 0.000 χ^2 /NDF: 6538394941.9

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592 $\pm$ 0.000 χ^2 /NDF: 3482435.2/17

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.554 $\pm$ 0.000 χ^2 /NDF: 4717986.9/20

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

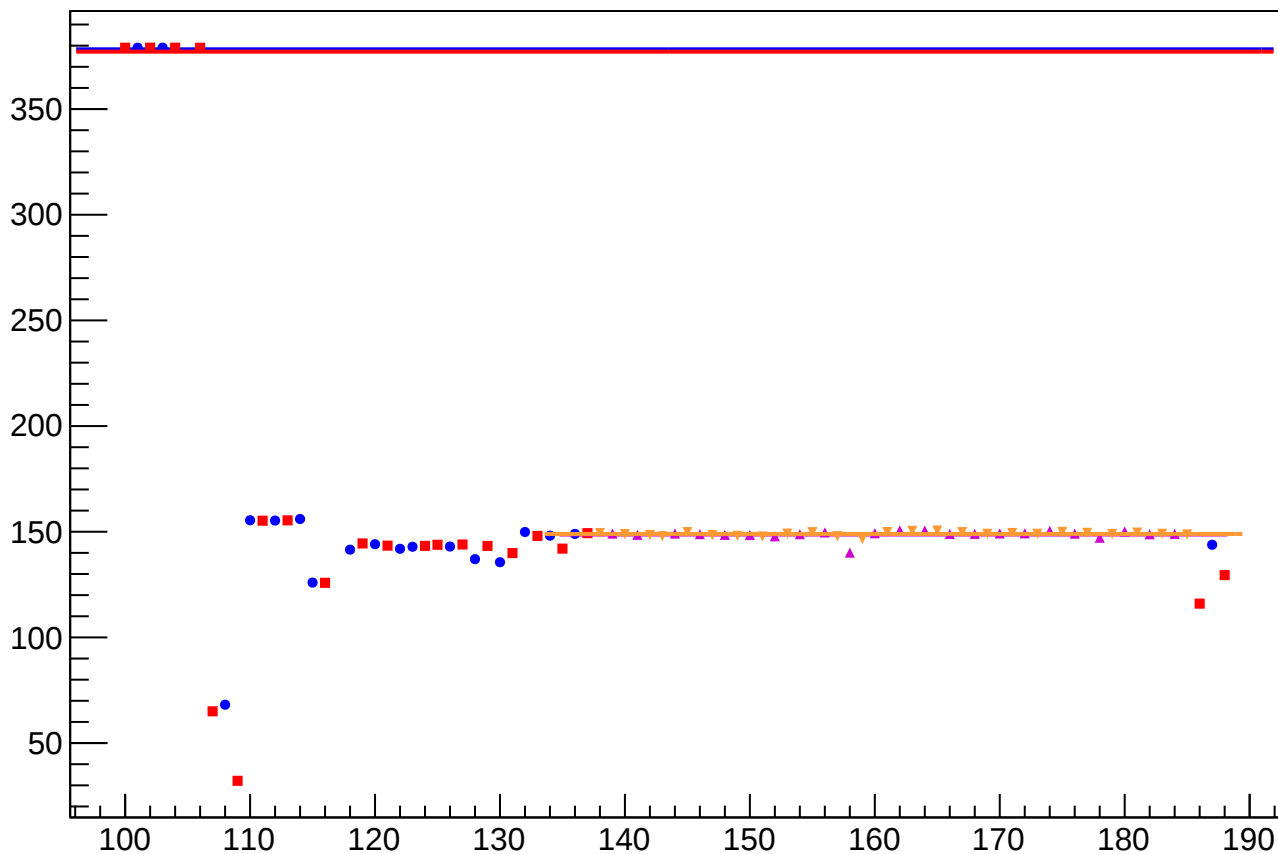
Right: 0.570 $\pm$ 0.000 χ^2 /NDF: 8217925.8/38

In: 0.567 $\pm$ 0.000 χ^2 /NDF:4808760.9/40

Out: 0.555 $\pm$ 0.000 χ^2 /NDF:6491416.4/45

All: 0.561 $\pm$ 0.000 χ^2 /NDF: 11309544.5/86

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.279 $\pm$ 0.000

χ^2/NDF : 2518641256142.4/17

Left: 148.820 $\pm$ 0.000

χ^2/NDF : 320306424.2/47

Right: 377.691 $\pm$ 0.000

χ^2/NDF : 11239859157599.9

Left Out: 148.946 $\pm$ 0.000

χ^2/NDF : 63974844.7/24

Right Out: 377.176 $\pm$ 0.000

χ^2/NDF : 8712579222595.6/20

In: 377.097 $\pm$ 0.000

χ^2/NDF : 6132679707462.8/40

Out: 376.056 $\pm$ 0.000

χ^2/NDF : 12592881822661.8

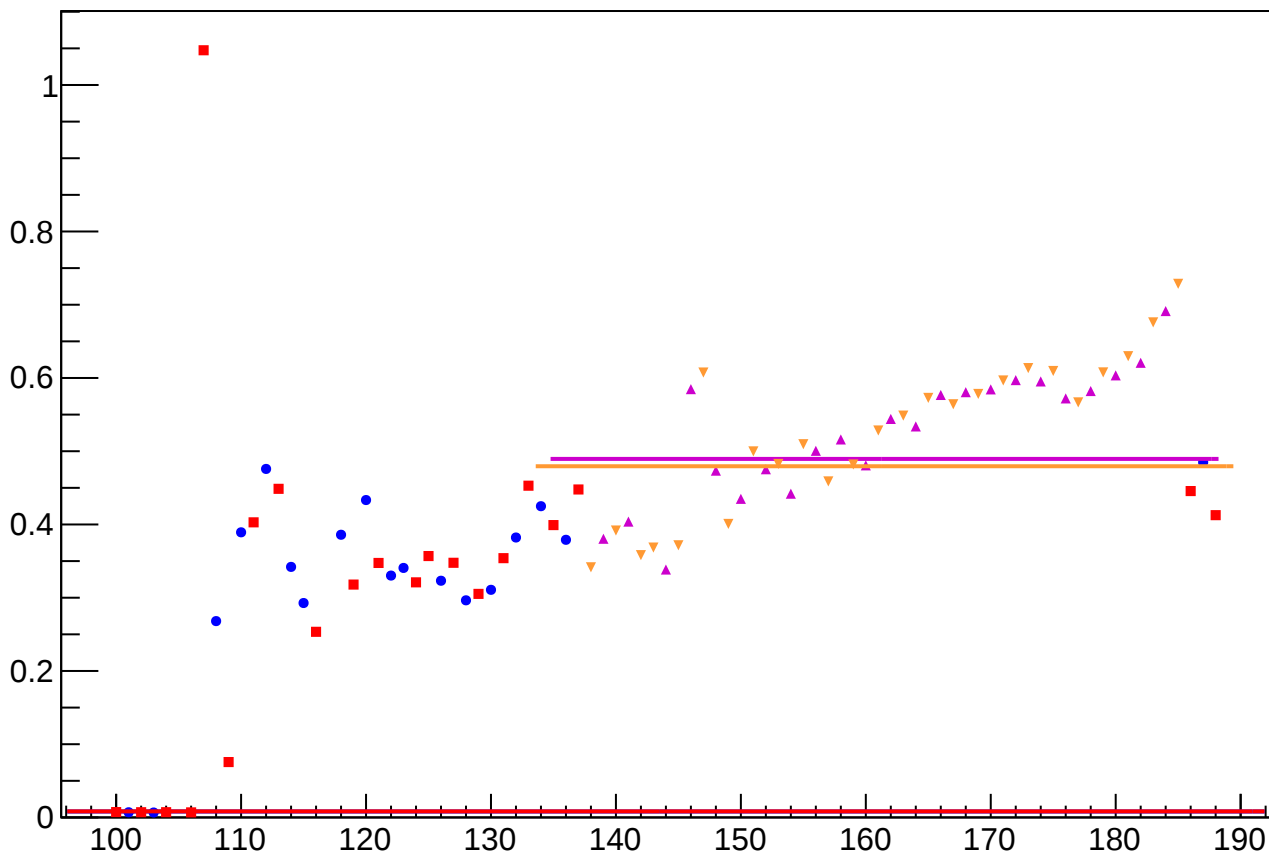
Left In: 148.683 $\pm$ 0.000

χ^2/NDF : 253848207.3/22

All: 376.543 $\pm$ 0.000

χ^2/NDF : 187332853216

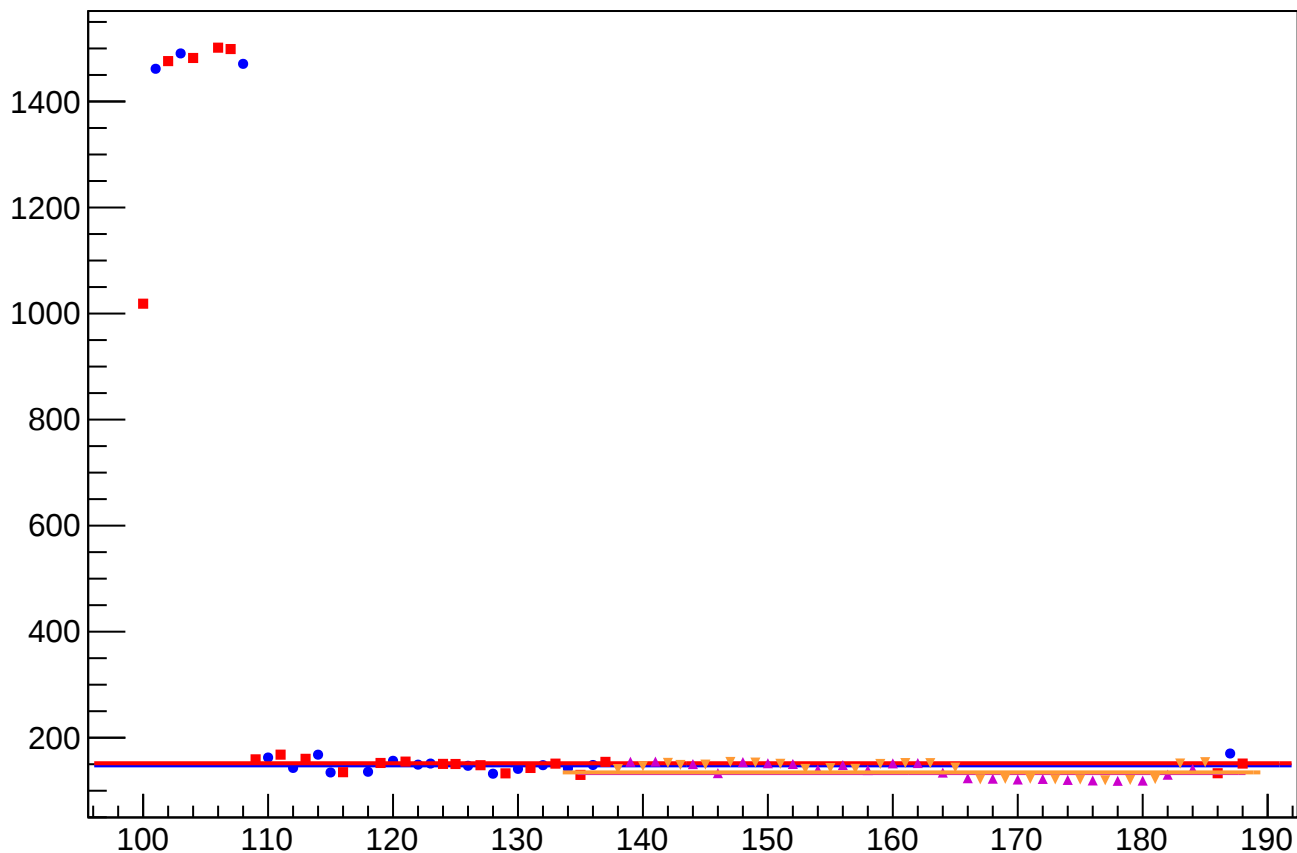
yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 10035070.1/17
 Left Out: 0.479+/-0.000 χ^2/NDF : 1518765.9/24
 Right Out: 0.008+/-0.000 χ^2/NDF : 11798207.6/20
 Left In: 0.490+/-0.000 χ^2/NDF : 1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47
 Right: 0.008+/-0.000 χ^2/NDF : 21833802.3/38
 In: 0.011+/-0.000 χ^2/NDF : 42897385.5/40
 Out: 0.011+/-0.000 χ^2/NDF : 46391019.5/45
 All: 0.011+/-0.000 χ^2/NDF : 89288413.8/86

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 147.860+/-0.000

χ^2/NDF : 24476921289.8/17

Left Out: 134.585+/-0.000

χ^2/NDF : 4387324151.1/24

Right Out: 151.849+/-0.000

χ^2/NDF : 33959840703.3/20

Left In: 133.309+/-0.000

χ^2/NDF : 4353039408.6/22

Left: 133.958+/-0.000

χ^2/NDF : 8759337937.7/47

Right: 150.204+/-0.000

χ^2/NDF : 58488149163.9/38

In: 136.120+/-0.000

χ^2/NDF : 29768423272.3/40

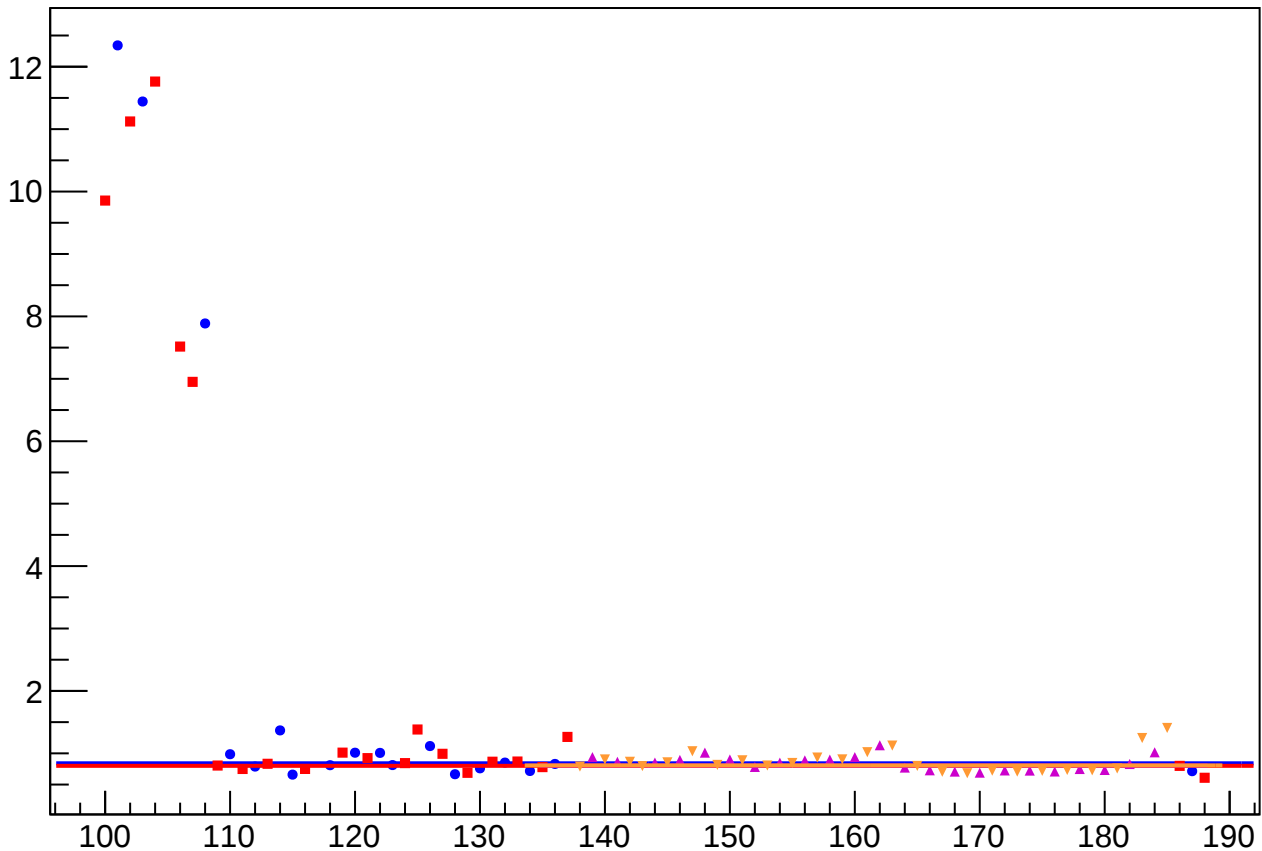
Out: 138.868+/-0.000

χ^2/NDF : 40102640098.7/45

All: 137.566+/-0.000

χ^2/NDF : 69984048777.7

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.841+/-0.000 χ^2/NDF : 2676063.9/17

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.800+/-0.000 χ^2/NDF : 3044023.0/20

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

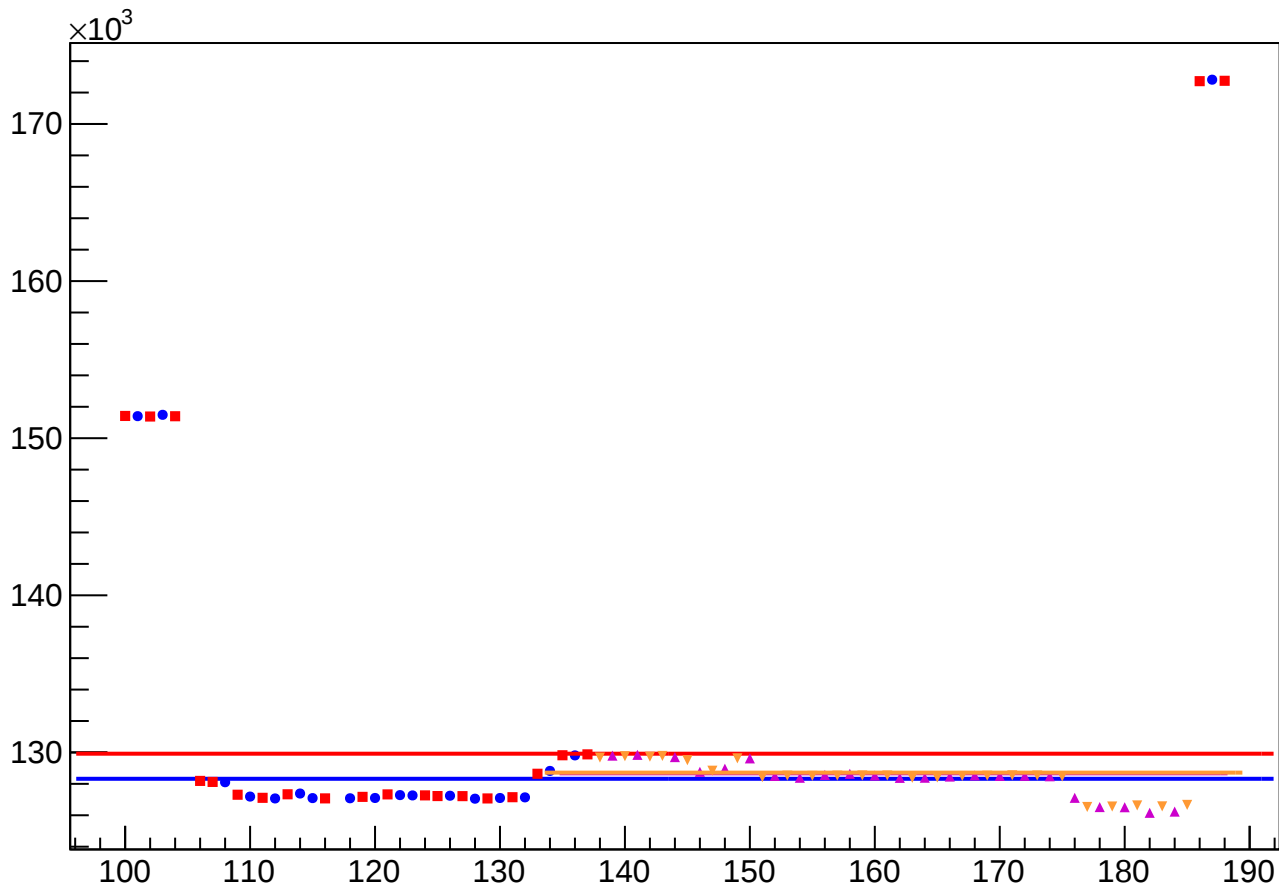
Right: 0.817+/-0.000 χ^2/NDF : 5730712.9/38

In: 0.812+/-0.000 χ^2/NDF : 3167304.2/40

Out: 0.805+/-0.000 χ^2/NDF : 3748717.4/45

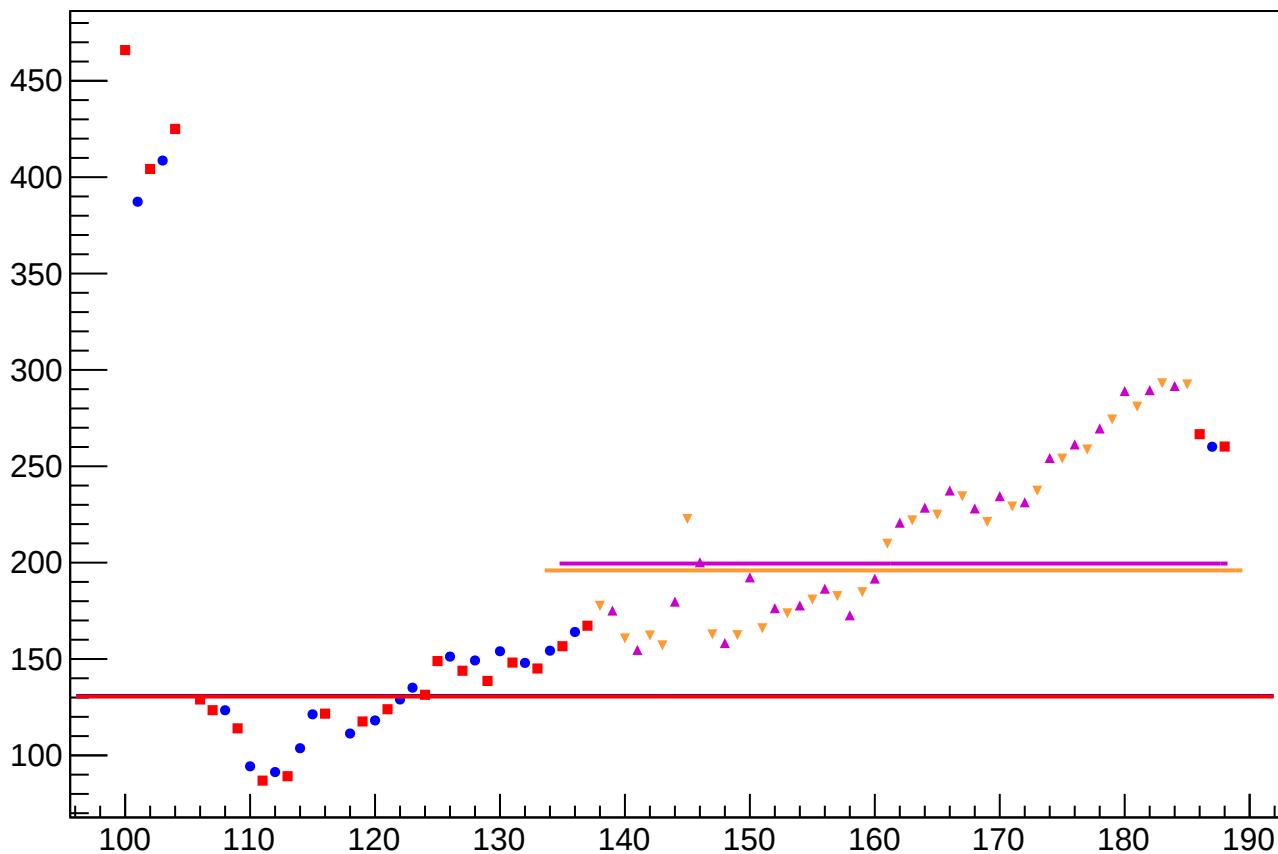
All: 0.808+/-0.000 χ^2/NDF : 6917276.9/86

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128321.933+/-0.054	χ^2/NDF : 8754096079.9/17	Left: 128692.941+/-0.034	χ^2/NDF : 683588051.4/47
Left Out: 128713.791+/-0.047	χ^2/NDF : 348293942.5/24	Right: 129200.169+/-0.037	χ^2/NDF : 48140402750.3
Right Out: 129918.673+/-0.049	χ^2/NDF : 38913353389.2/20	In: 128514.896+/-0.036	χ^2/NDF : 9111629973.3/40
Left In: 128670.094+/-0.049	χ^2/NDF : 334875494.0/22	Out: 129283.588+/-0.034	χ^2/NDF : 39577097439.8
		All: 128926.415+/-0.025	χ^2/NDF : 489280643

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 130.816 $\pm$ 0.039 χ^2 /NDF: 1559062.0/17

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF: 1316091.7/24

Right Out: 130.536 $\pm$ 0.035 χ^2 /NDF: 2189579.4/20

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

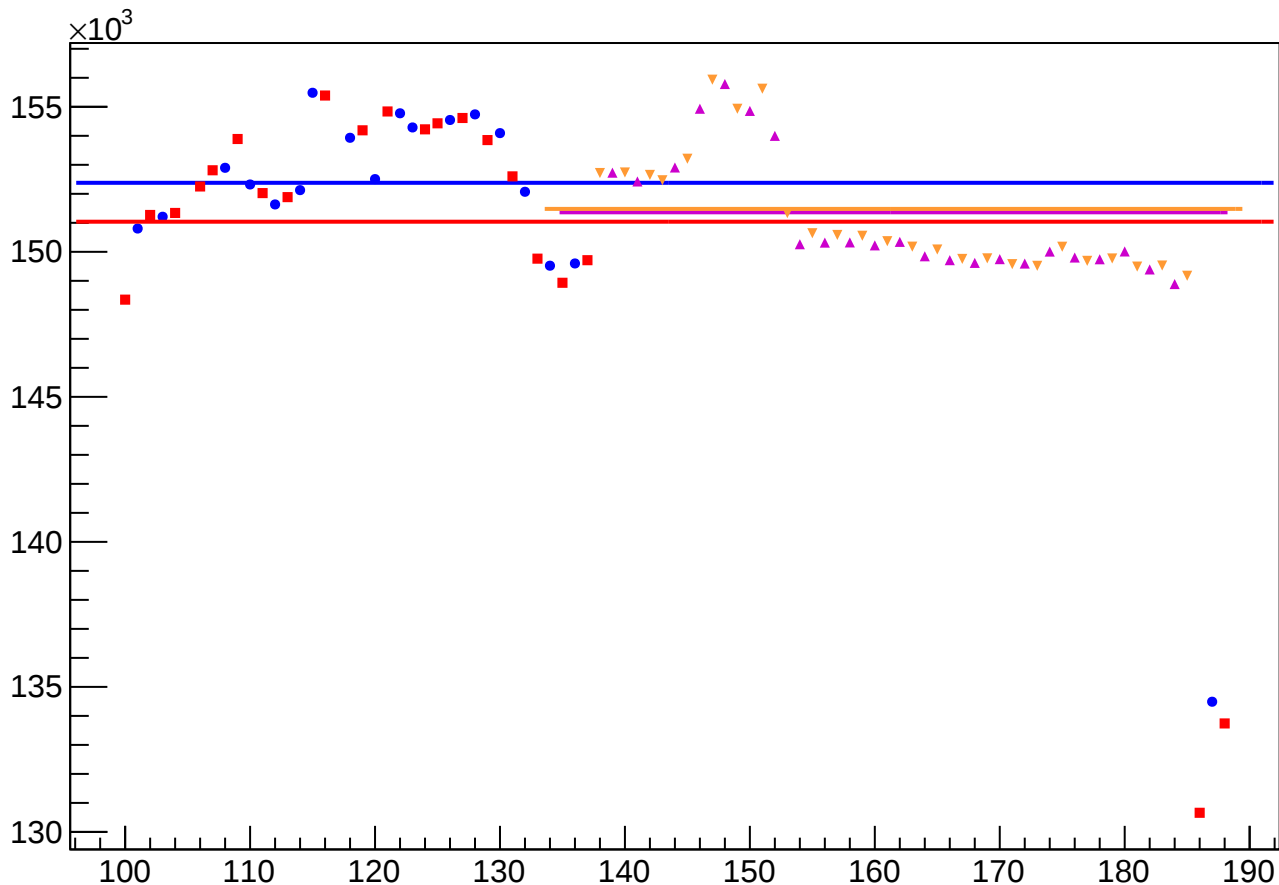
Right: 130.662 $\pm$ 0.026 χ^2 /NDF: 3748670.5/38

In: 168.900 $\pm$ 0.026 χ^2 /NDF: 4499647.9/40

Out: 165.023 $\pm$ 0.024 χ^2 /NDF: 5366037.2/45

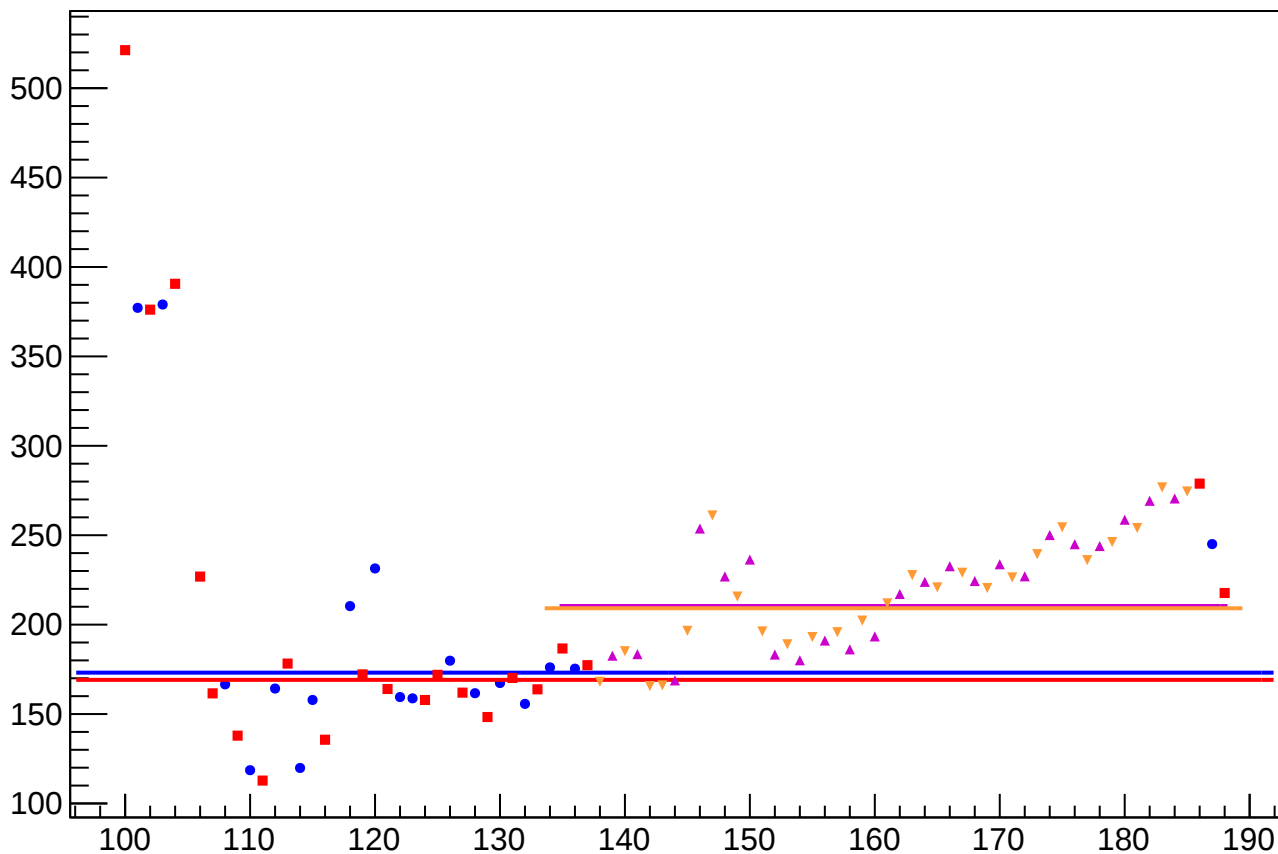
All: 166.824 $\pm$ 0.018 χ^2 /NDF: 9877866.5/86

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152379.768+/-0.072	χ^2/NDF : 1396075849.7/17	Left: 151423.440+/-0.036	χ^2/NDF : 2913216467.1/4
Left Out: 151480.339+/-0.049	χ^2/NDF : 1483692735.3/24	Right: 151621.618+/-0.047	χ^2/NDF : 10616972361.0/17
Right Out: 151038.585+/-0.063	χ^2/NDF : 9024354048.7/20	In: 151704.774+/-0.042	χ^2/NDF : 2955590221.8/40
Left In: 151362.440+/-0.051	χ^2/NDF : 1426782789.9/22	Out: 151312.089+/-0.039	χ^2/NDF : 10538415045.9/20
		All: 151494.828+/-0.028	χ^2/NDF : 135413613.0/100

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 173.149 $\pm$ 0.051 χ^2 /NDF: 950752.9/17

Left Out: 209.156 $\pm$ 0.035 χ^2 /NDF: 710094.9/24

Right Out: 169.118 $\pm$ 0.045 χ^2 /NDF: 1253674.1/20

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

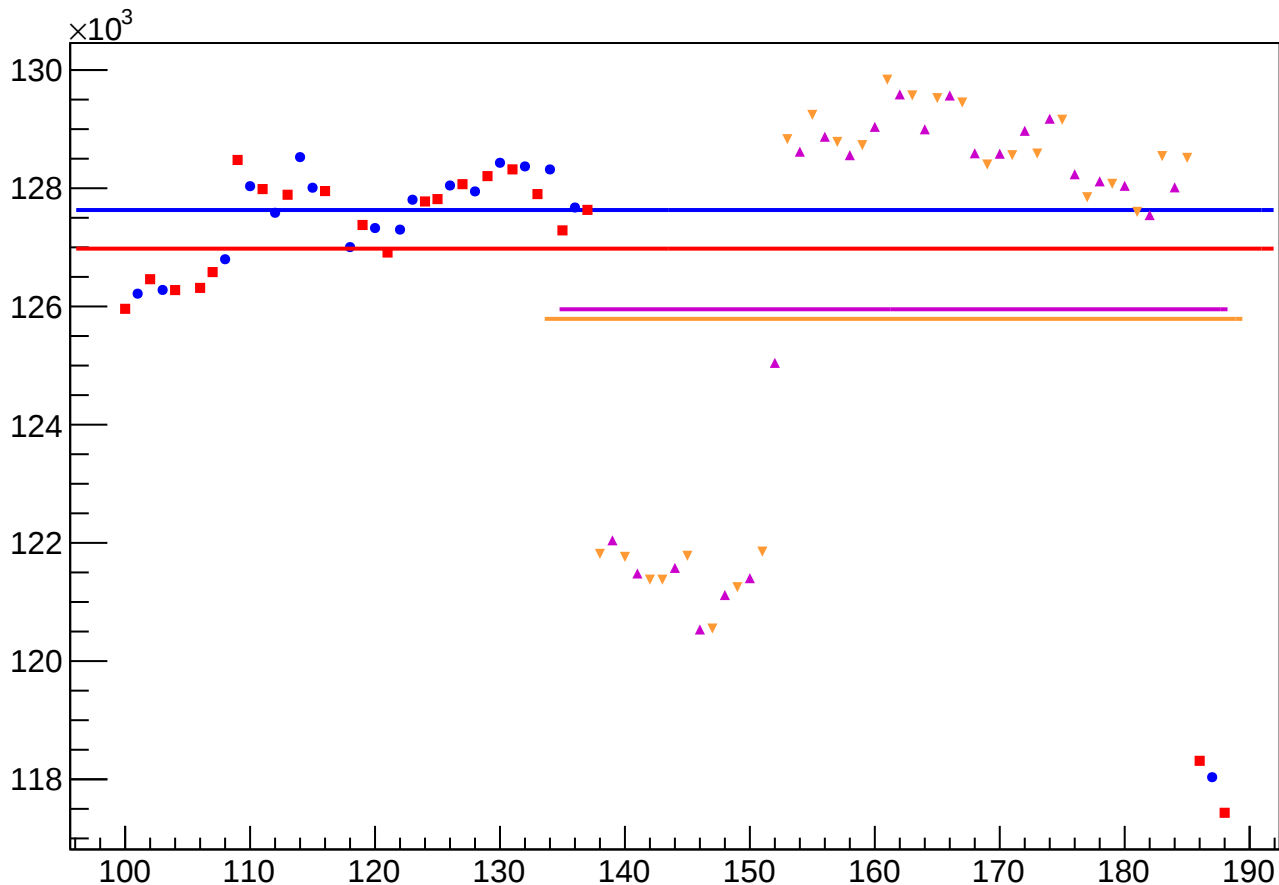
Right: 170.870 $\pm$ 0.034 χ^2 /NDF: 2207979.2/38

In: 197.885 $\pm$ 0.030 χ^2 /NDF: 1991271.3/40

Out: 193.906 $\pm$ 0.028 χ^2 /NDF: 2462691.7/45

All: 195.758 $\pm$ 0.020 χ^2 /NDF: 4463687.2/86

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127631.416 $\pm$ 0.058

χ^2 /NDF: 335402909.0/17

Left Out: 125790.126 $\pm$ 0.044

χ^2 /NDF: 6744310079.8/24

Right Out: 126978.331 $\pm$ 0.052

χ^2 /NDF: 2647070360.5/20

Left In: 125952.447 $\pm$ 0.045

χ^2 /NDF: 5841800367.5/22

Left: 125870.001 $\pm$ 0.031

χ^2 /NDF: 12592819321.6/21

Right: 127271.526 $\pm$ 0.039

χ^2 /NDF: 3051973059.9/21

In: 126575.354 $\pm$ 0.035

χ^2 /NDF: 6701499072.6/40

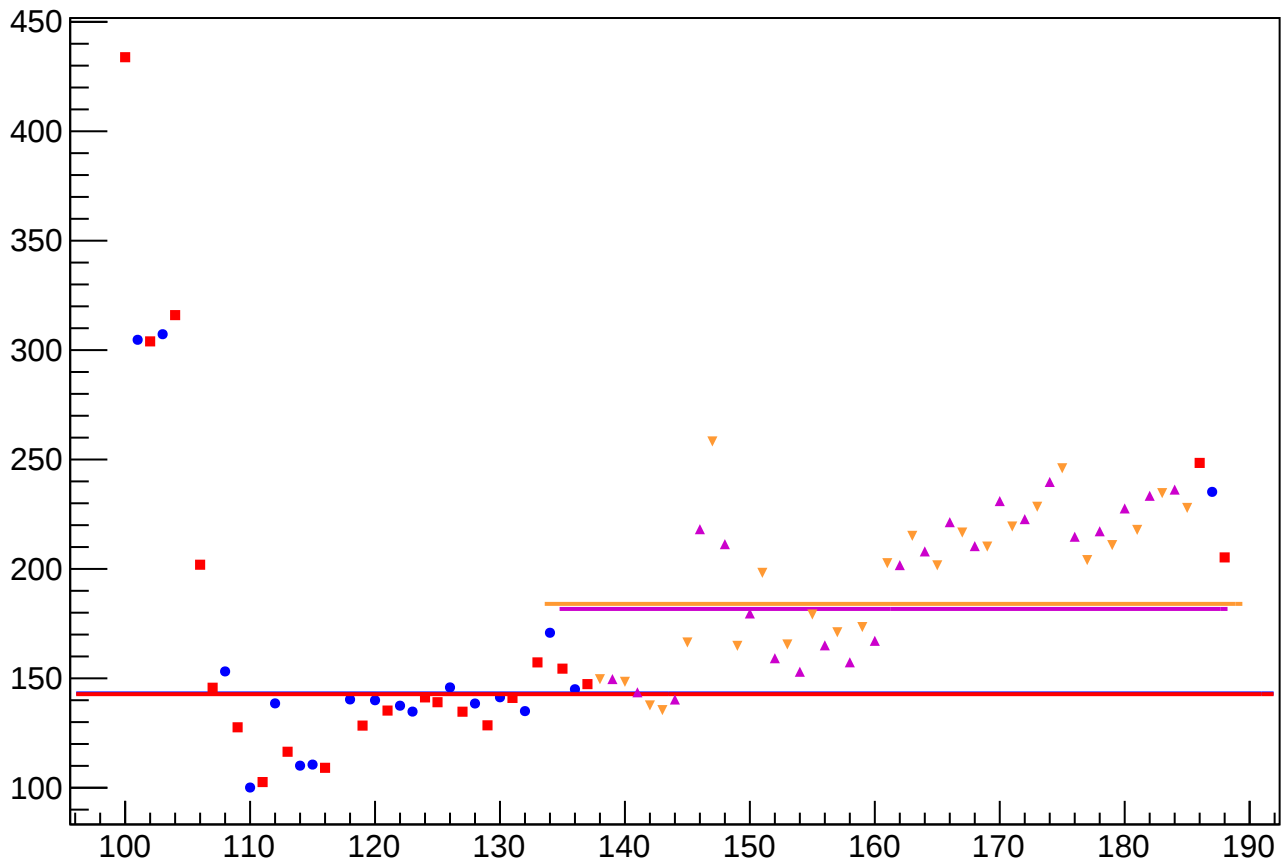
Out: 126279.981 $\pm$ 0.034

χ^2 /NDF: 9692557144.2/40

All: 126420.325 $\pm$ 0.024

χ^2 /NDF: 164305524.2/100

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 143.095+/-0.041 χ^2/NDF : 880782.1/17

Left Out: 184.029+/-0.031 χ^2/NDF : 1126592.5/24

Right Out: 142.767+/-0.037 χ^2/NDF : 1277932.1/20

Left In: 181.714+/-0.032 χ^2/NDF : 1116142.0/22

Left: 182.890+/-0.022 χ^2/NDF : 2245464.4/47

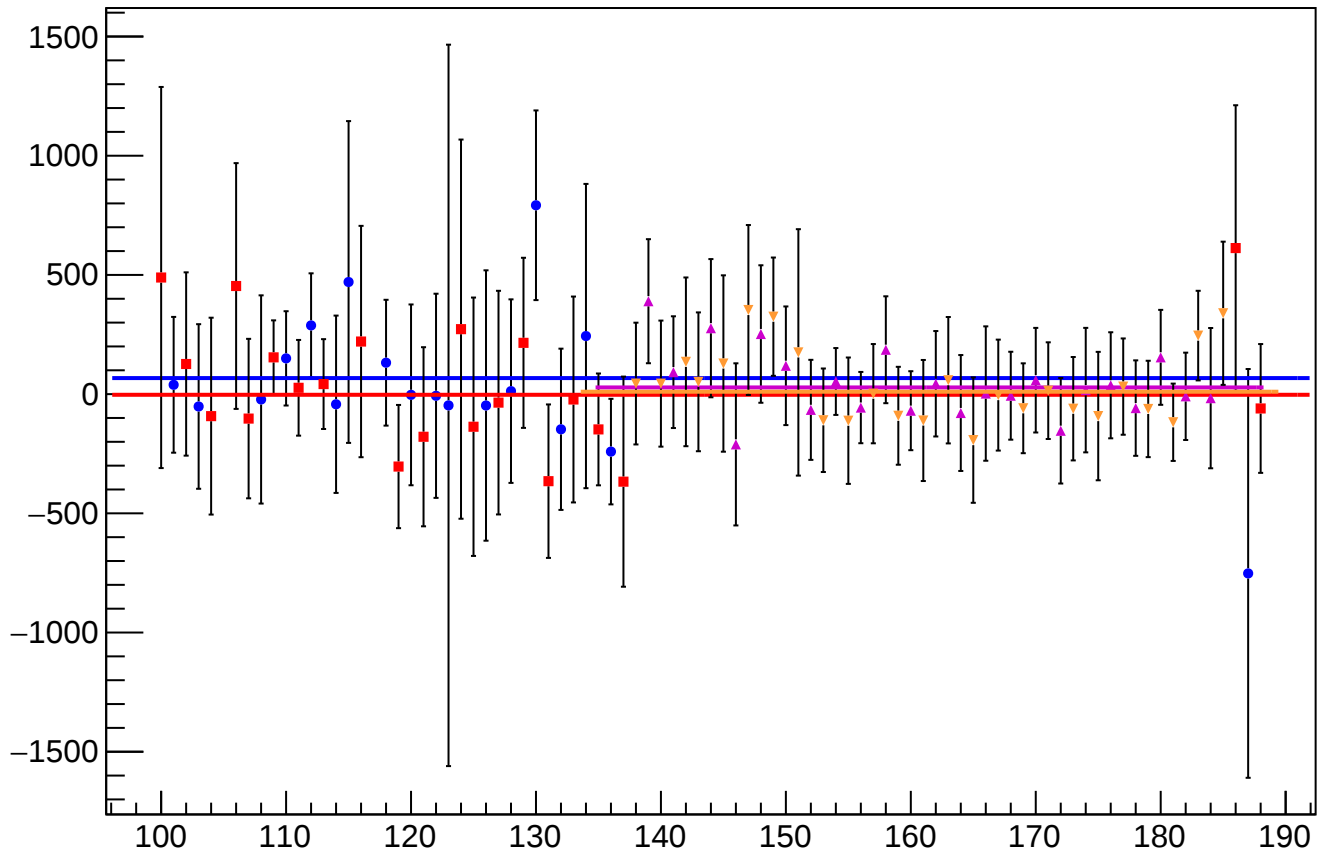
Right: 142.914+/-0.028 χ^2/NDF : 2158749.3/38

In: 167.386+/-0.025 χ^2/NDF : 2551695.0/40

Out: 167.018+/-0.024 χ^2/NDF : 3130925.3/45

All: 167.193+/-0.017 χ^2/NDF : 5682733.6/86

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 67.307+/-79.487 χ^2/NDF : 8.7/17

Left Out: 10.078+/-47.488 χ^2/NDF : 8.5/24

Right Out: -2.763+/-67.430 χ^2/NDF : 8.3/20

Left In: 28.050+/-44.573 χ^2/NDF : 7.0/22

Left: 19.632+/-32.499 χ^2/NDF : 15.5/47

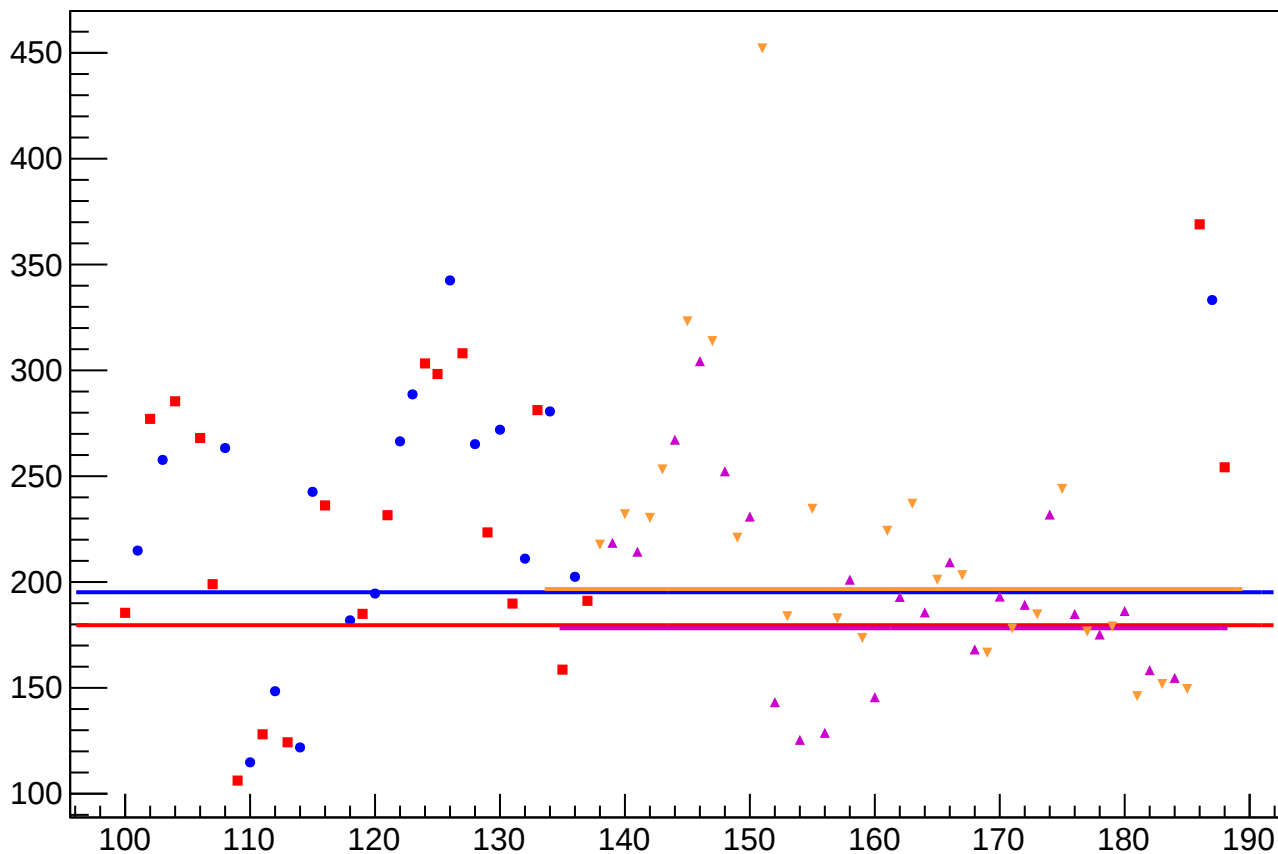
Right: 26.560+/-51.420 χ^2/NDF : 17.4/38

In: 37.441+/-38.877 χ^2/NDF : 15.8/40

Out: 5.820+/-38.826 χ^2/NDF : 16.8/45

All: 21.610+/-27.472 χ^2/NDF : 32.9/86

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 195.178+/-0.056 χ^2/NDF : 1071176.2/17

Left Out: 196.682+/-0.034 χ^2/NDF : 1782715.7/24

Right Out: 179.602+/-0.048 χ^2/NDF : 1950669.8/20

Left In: 178.166+/-0.032 χ^2/NDF : 1618967.9/22

Left: 186.838+/-0.023 χ^2/NDF : 3563331.3/47

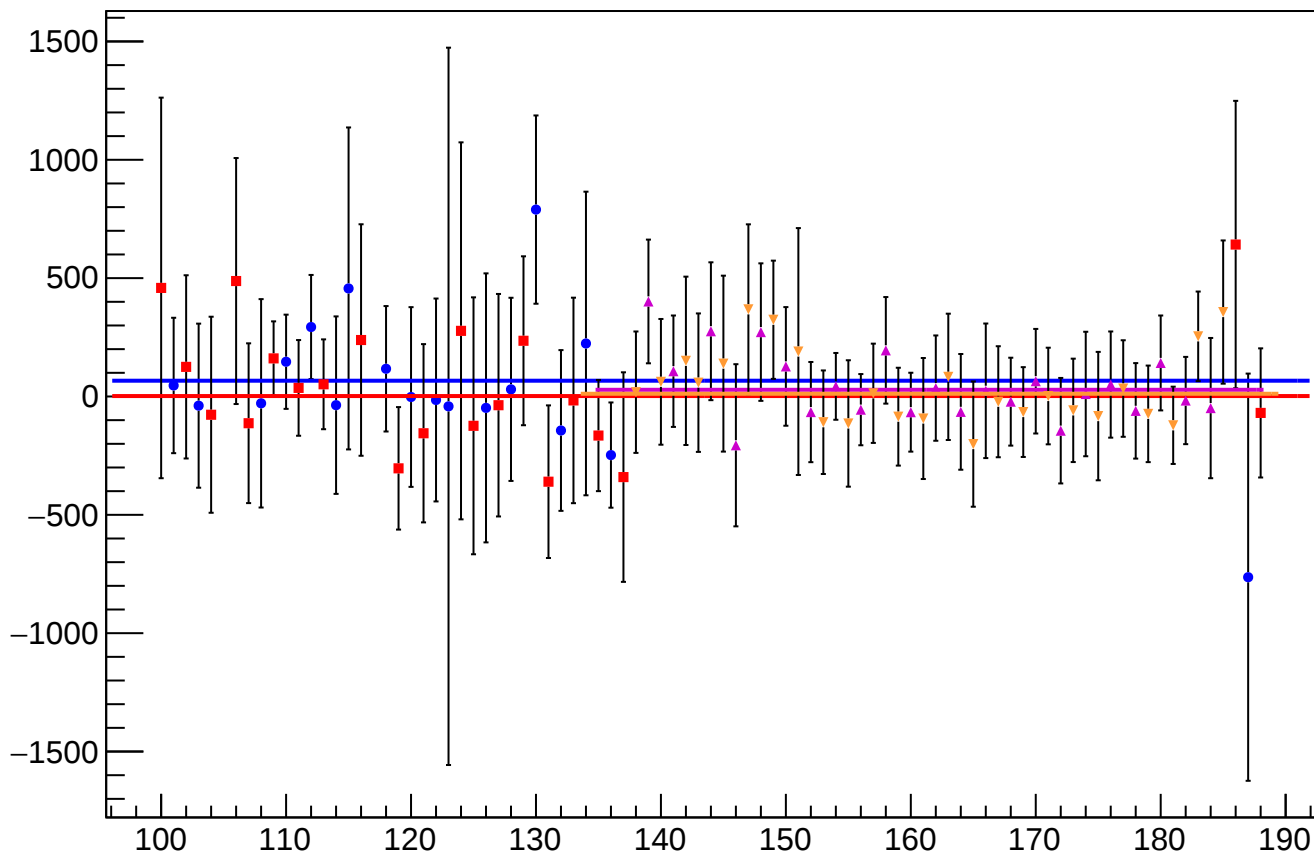
Right: 186.120+/-0.036 χ^2/NDF : 3066506.1/38

In: 182.235+/-0.027 χ^2/NDF : 2759841.5/40

Out: 191.019+/-0.027 χ^2/NDF : 3819162.1/45

All: 186.633+/-0.019 χ^2/NDF : 6630115.9/86

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 66.650 $\pm$ 79.874 χ^2 /NDF: 8.6/17

Left Out: 11.479 $\pm$ 47.819 χ^2 /NDF:8.8/24

Right Out: 1.831 $\pm$ 67.812 χ^2 /NDF: 8.5/20

Left In: 28.280 $\pm$ 44.863 χ^2 /NDF:7.1/22

Left: 20.415 $\pm$ 32.718 χ^2 /NDF: 16.0/47

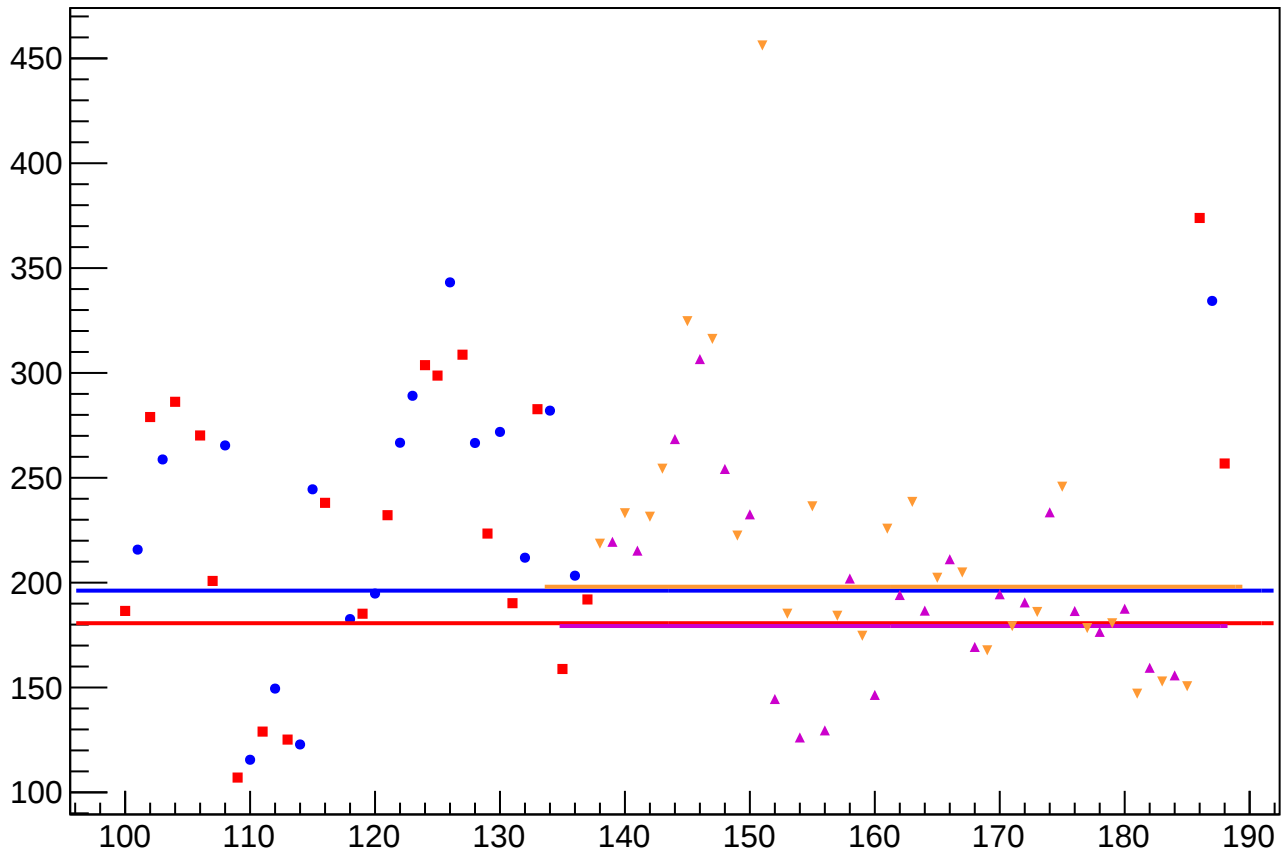
Right: 28.982 $\pm$ 51.695 χ^2 /NDF: 17.5/38

In: 37.482 $\pm$ 39.116 χ^2 /NDF:15.9/40

Out: 8.275 $\pm$ 39.080 χ^2 /NDF:17.4/45

All: 22.865 $\pm$ 27.646 χ^2 /NDF: 33.6/86

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 196.193 $\pm$ 0.056 χ^2/NDF : 1062358.5/17

Left Out: 198.059 $\pm$ 0.034 χ^2/NDF : 1778526.5/24

Right Out: 180.661 $\pm$ 0.048 χ^2/NDF : 1944653.8/20

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

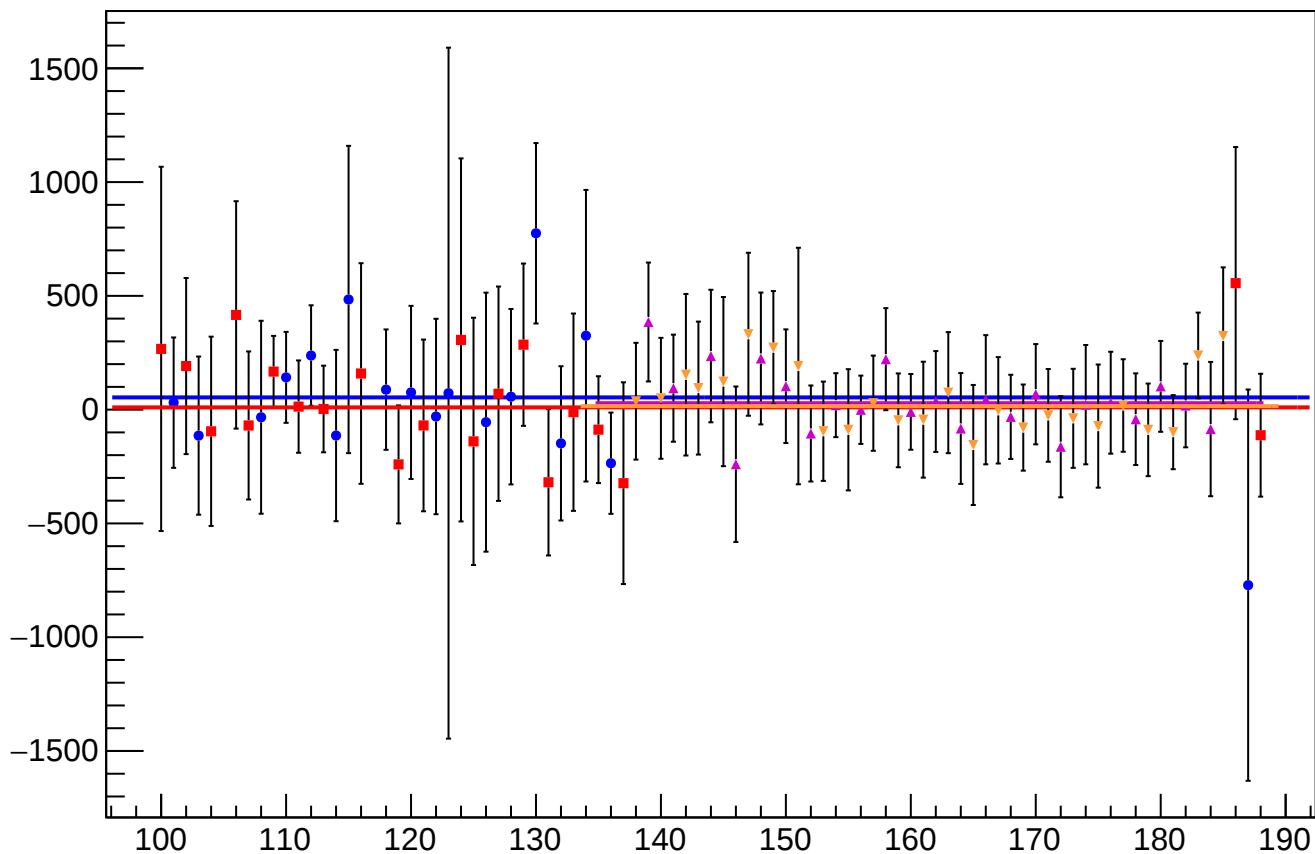
Right: 187.167 $\pm$ 0.037 χ^2/NDF : 3050961.4/38

In: 183.369 $\pm$ 0.028 χ^2/NDF : 2748438.2/40

Out: 192.281 $\pm$ 0.028 χ^2/NDF : 3811106.5/45

All: 187.829 $\pm$ 0.020 χ^2/NDF : 6611494.4/86

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 53.746 $\pm$ 79.869 χ^2 /NDF: 8.3/17

Left Out: 15.437 $\pm$ 47.695 χ^2 /NDF: 7.0/24

Right Out: 9.923 $\pm$ 67.686 χ^2 /NDF: 6.8/20

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

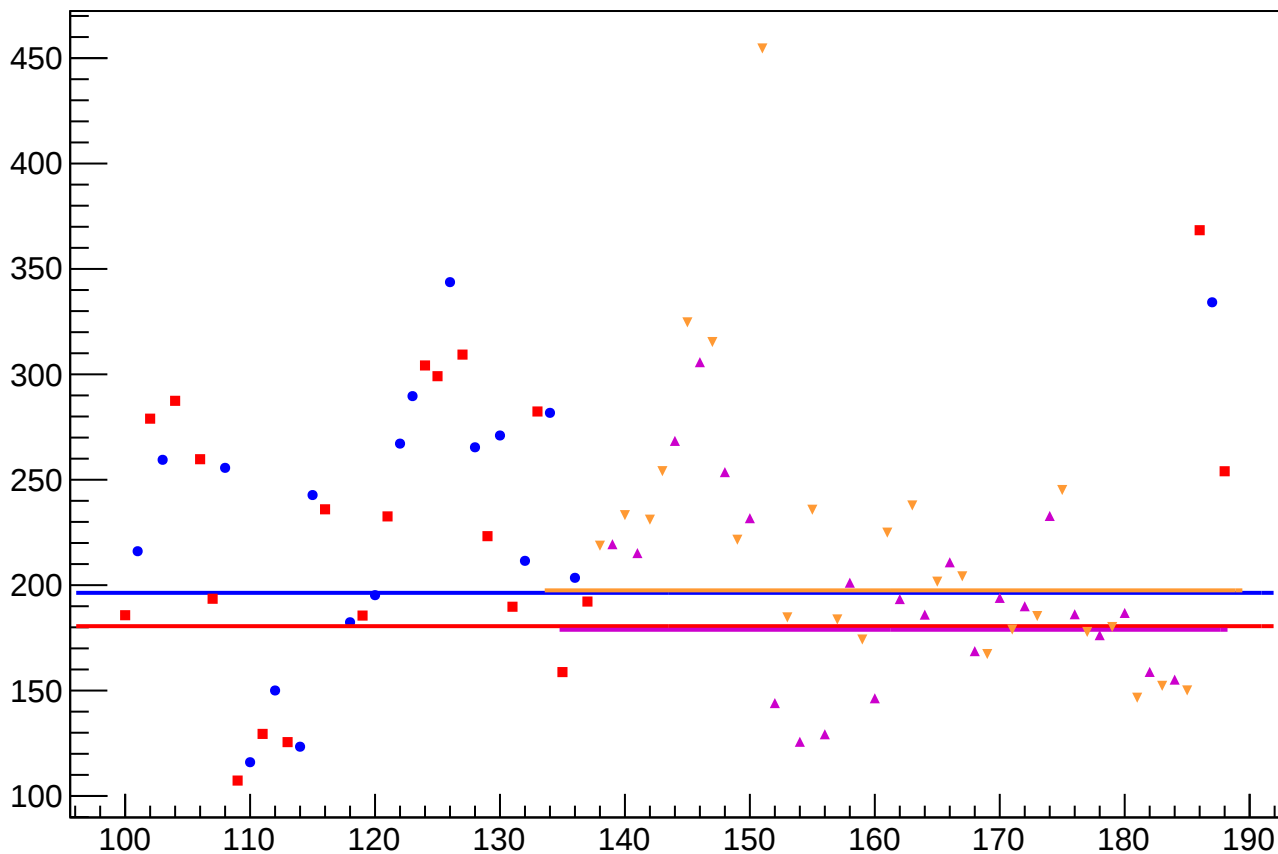
Right: 28.241 $\pm$ 51.638 χ^2 /NDF: 15.3/38

In: 34.360 $\pm$ 39.035 χ^2 /NDF: 14.8/40

Out: 13.608 $\pm$ 38.988 χ^2 /NDF: 13.8/45

All: 23.972 $\pm$ 27.585 χ^2 /NDF: 28.7/86

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 196.356+/-0.056 χ^2/NDF : 1040148.1/17

Left Out: 197.527+/-0.034 χ^2/NDF : 1784225.5/24

Right Out: 180.545+/-0.048 χ^2/NDF : 1907986.2/20

Left In: 178.836+/-0.032 χ^2/NDF : 1622266.9/22

Left: 187.585+/-0.023 χ^2/NDF : 3569877.1/47

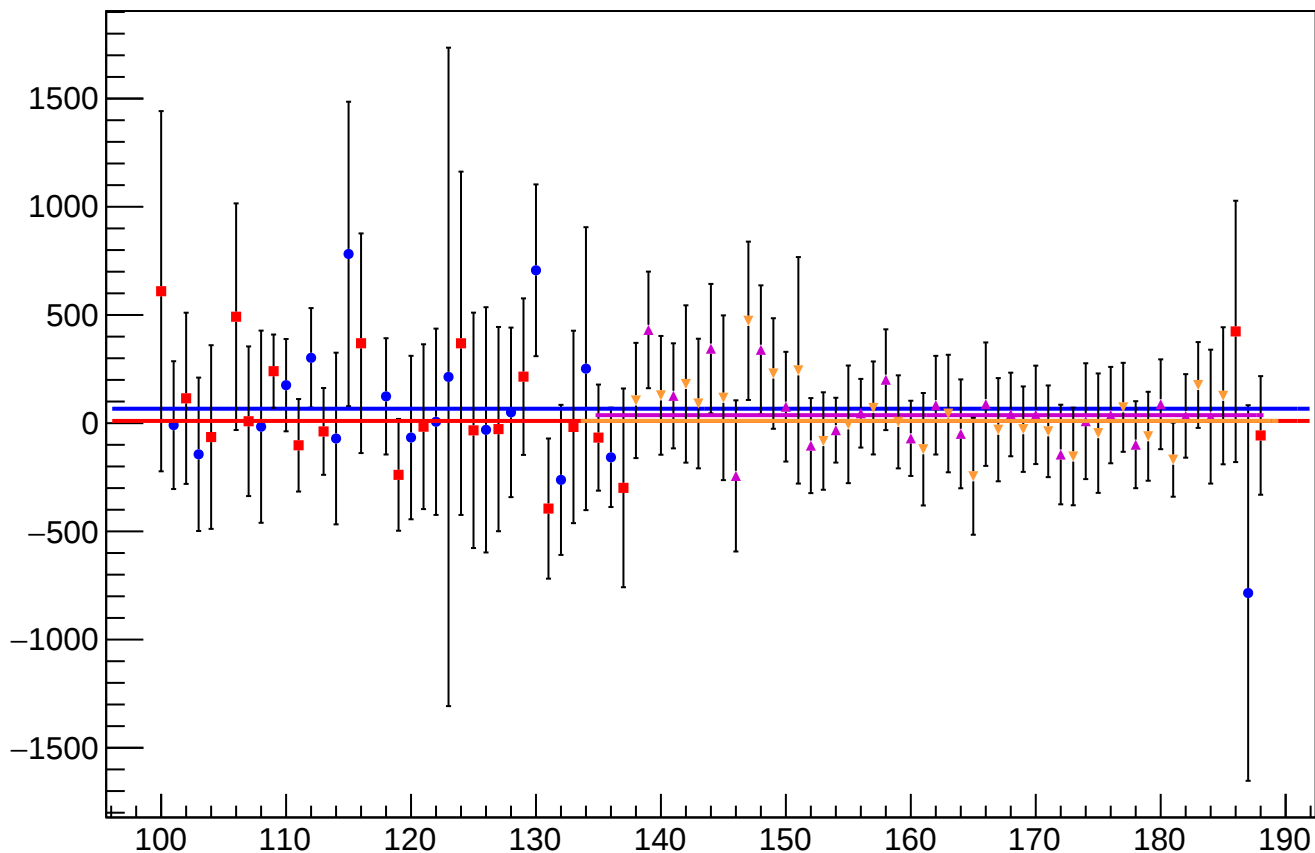
Right: 187.154+/-0.037 χ^2/NDF : 2993748.7/38

In: 183.021+/-0.028 χ^2/NDF : 2735668.4/40

Out: 191.893+/-0.028 χ^2/NDF : 3776334.0/45

All: 187.462+/-0.020 χ^2/NDF : 6563725.4/86

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 66.799 $\pm$ 82.368 χ^2 /NDF: 8.6/17

Left Out: 10.534 $\pm$ 49.197 χ^2 /NDF:7.5/24

Right Out: 10.360 $\pm$ 70.376 χ^2 /NDF: 8.3/20

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

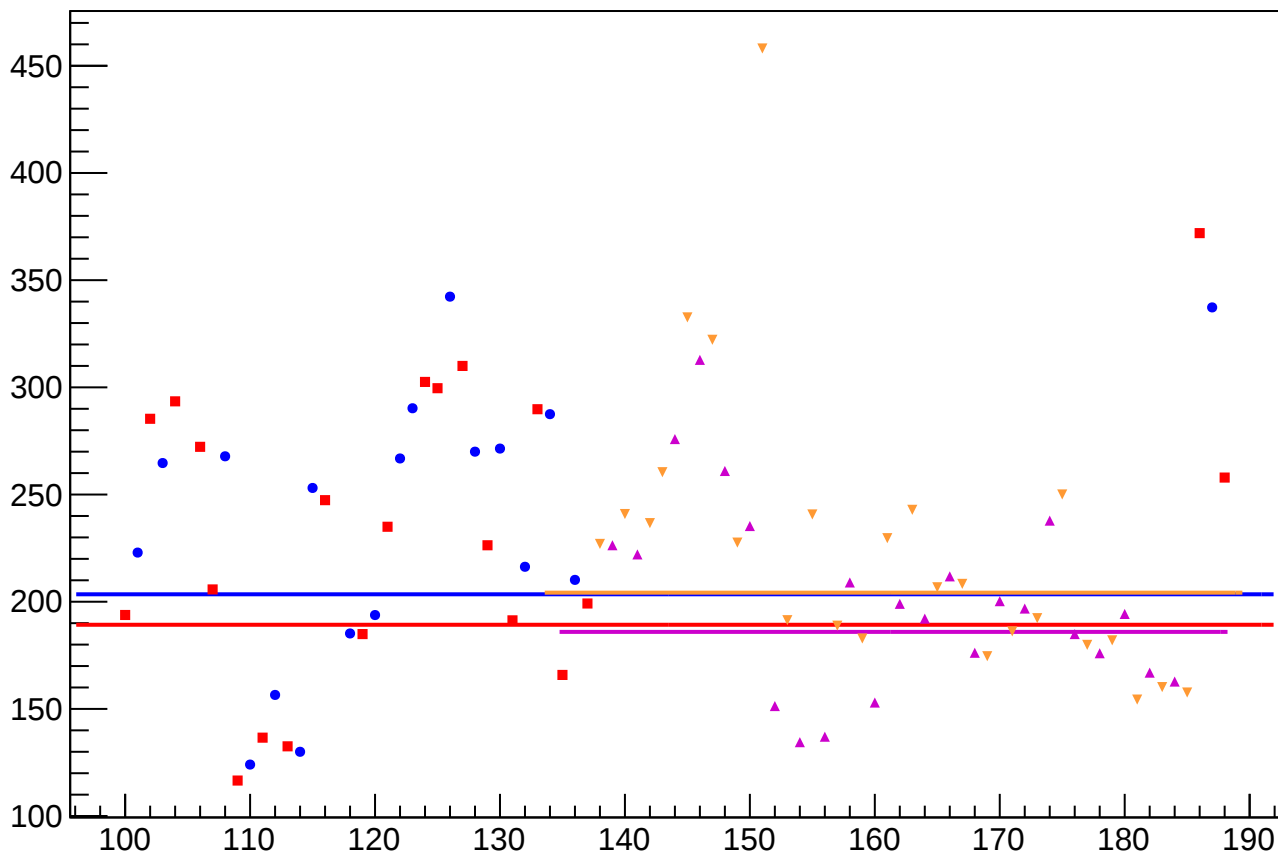
Right: 34.175 $\pm$ 53.506 χ^2 /NDF: 17.2/38

In: 44.168 $\pm$ 40.399 χ^2 /NDF:16.6/40

Out: 10.477 $\pm$ 40.321 χ^2 /NDF:15.7/45

All: 27.290 $\pm$ 28.539 χ^2 /NDF: 32.7/86

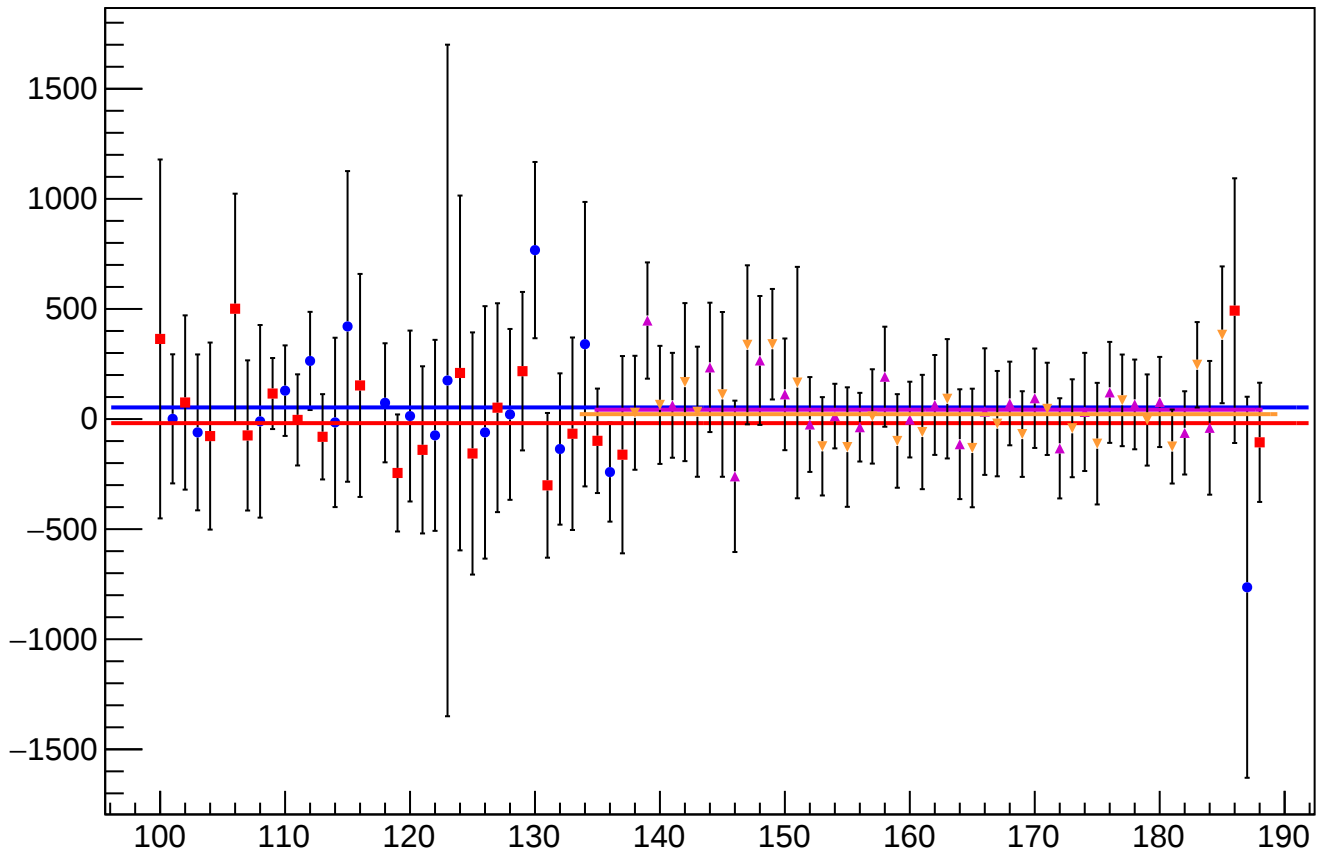
asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 203.468 $\pm$ 0.058 χ^2 /NDF: 931731.8/17
 Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24
 Right Out: 189.255 $\pm$ 0.050 χ^2 /NDF: 1703661.9/20
 Left In: 185.931 $\pm$ 0.033 χ^2 /NDF:1460065.0/22

Left: 194.540 $\pm$ 0.024 χ^2 /NDF: 3282383.3/47
 Right: 195.252 $\pm$ 0.038 χ^2 /NDF: 2669814.8/38
 In: 190.150 $\pm$ 0.029 χ^2 /NDF:2460643.6/40
 Out: 199.318 $\pm$ 0.029 χ^2 /NDF:3440205.7/45
 All: 194.743 $\pm$ 0.020 χ^2 /NDF: 5952451.5/86

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 52.845 $\pm$ 81.297 χ^2 /NDF: 7.9/17

Left Out: 22.189 $\pm$ 48.738 χ^2 /NDF:8.4/24

Right Out: -18.586 $\pm$ 69.043 χ^2 /NDF: 5.4/20

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

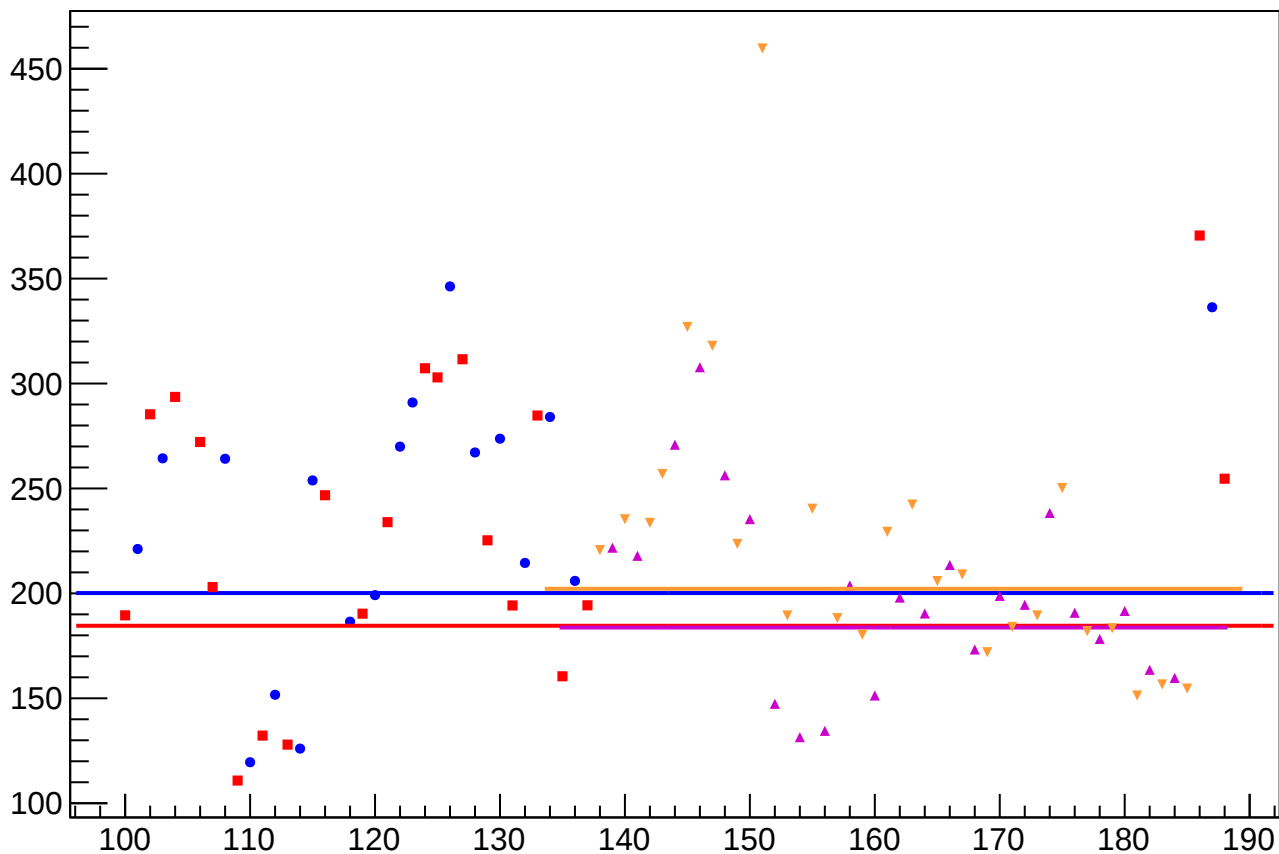
Right: 11.345 $\pm$ 52.626 χ^2 /NDF: 13.8/38

In: 44.956 $\pm$ 39.943 χ^2 /NDF:14.7/40

Out: 8.628 $\pm$ 39.817 χ^2 /NDF:14.0/45

All: 26.734 $\pm$ 28.200 χ^2 /NDF: 29.1/86

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 200.155+/-0.057 χ^2/NDF : 1015753.6/17

Left Out: 202.186+/-0.034 χ^2/NDF : 1696571.9/24

Right Out: 184.569+/-0.049 χ^2/NDF : 1867365.3/20

Left In: 183.732+/-0.032 χ^2/NDF : 1495930.4/22

Left: 192.398+/-0.024 χ^2/NDF : 3344580.1/47

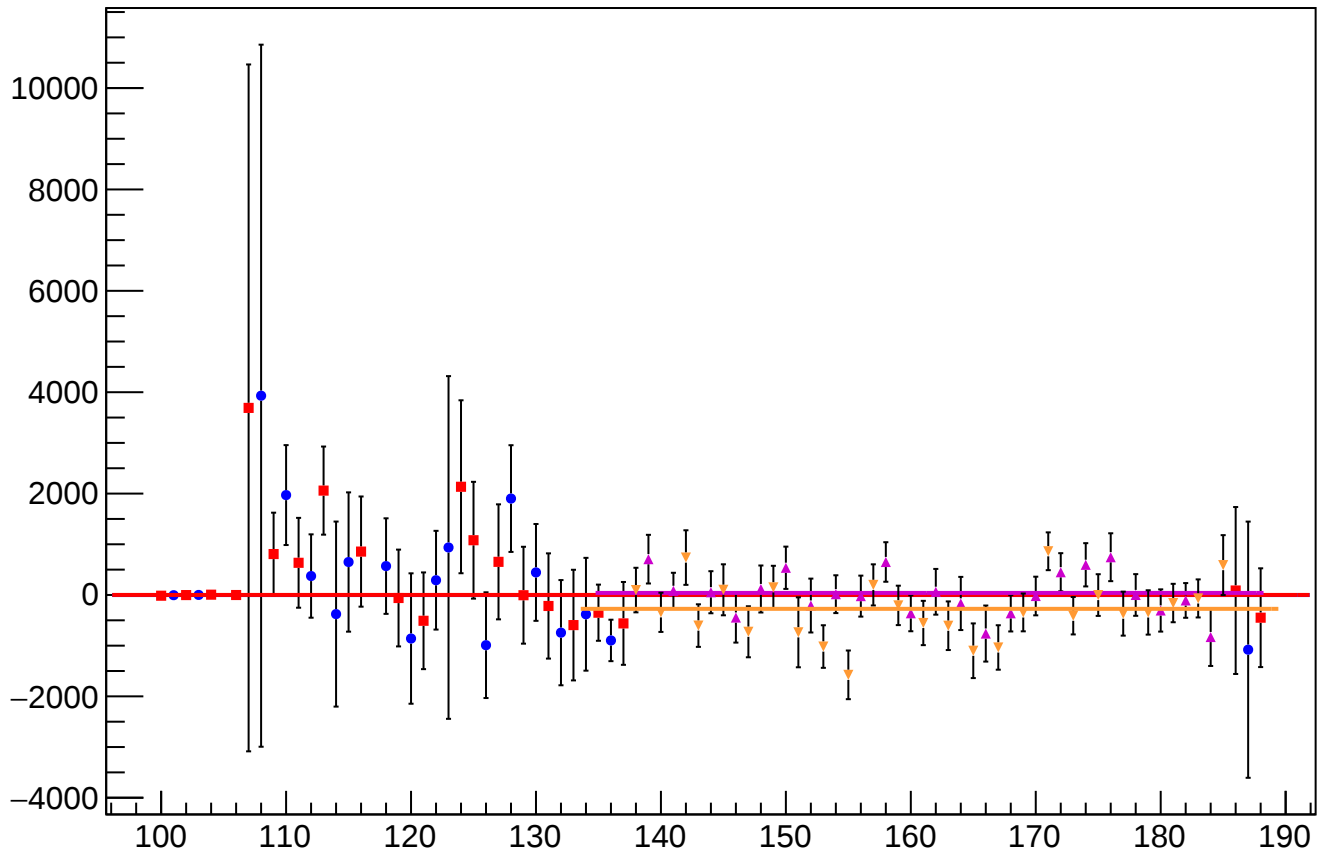
Right: 191.100+/-0.037 χ^2/NDF : 2925828.4/38

In: 187.697+/-0.028 χ^2/NDF : 2573600.0/40

Out: 196.327+/-0.028 χ^2/NDF : 3650845.9/45

All: 192.026+/-0.020 χ^2/NDF : 6271276.2/86

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 17.1/17

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.729 ± 2.111 χ^2/NDF : 18.4/20

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

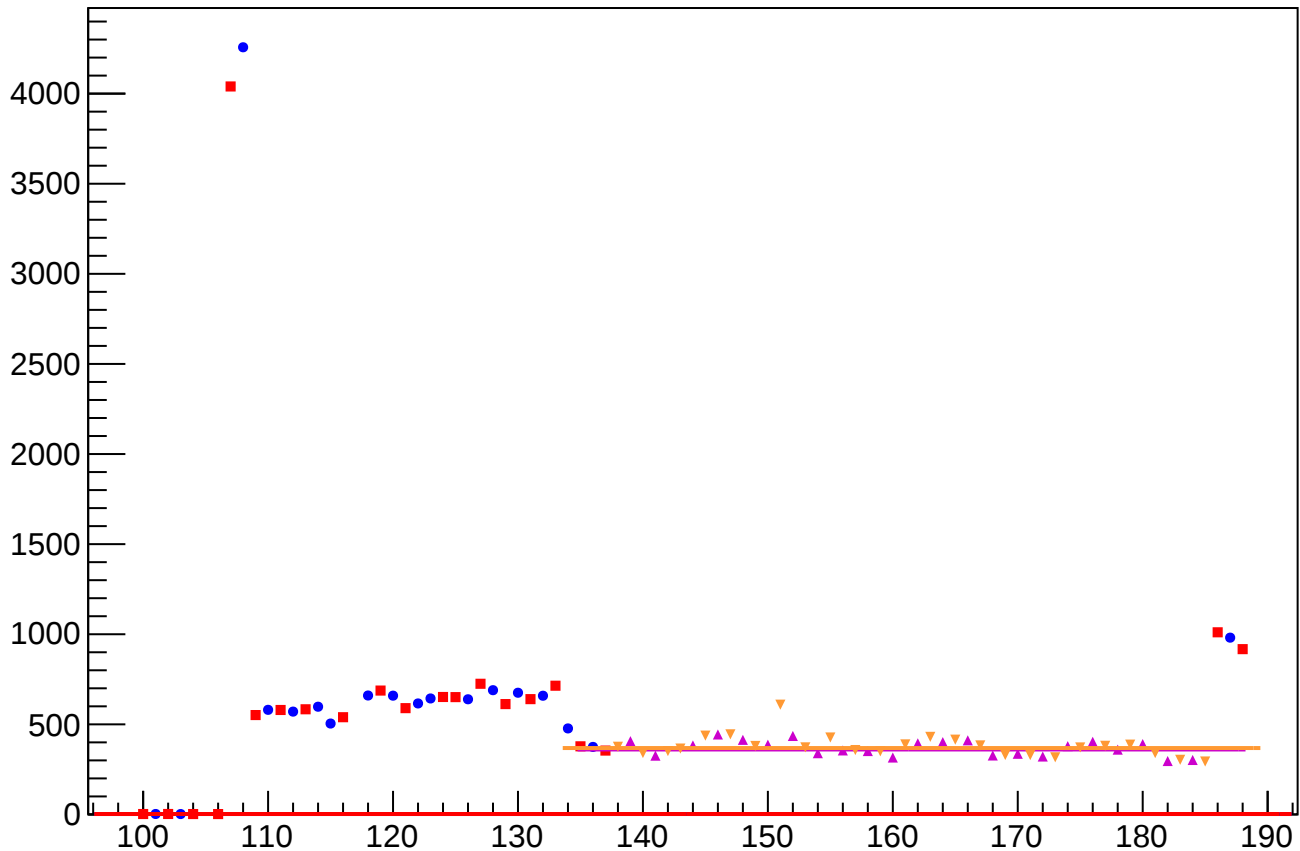
Right: -0.328 ± 1.540 χ^2/NDF : 36.1/38

In: -1.502 ± 2.251 χ^2/NDF : 37.5/40

Out: 0.567 ± 2.110 χ^2/NDF : 66.7/45

All: -0.401 ± 1.540 χ^2/NDF : 104.7/86

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.457+/-0.002 χ^2/NDF : 10967067.2/17

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.442+/-0.001 χ^2/NDF : 13607644.6/20

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

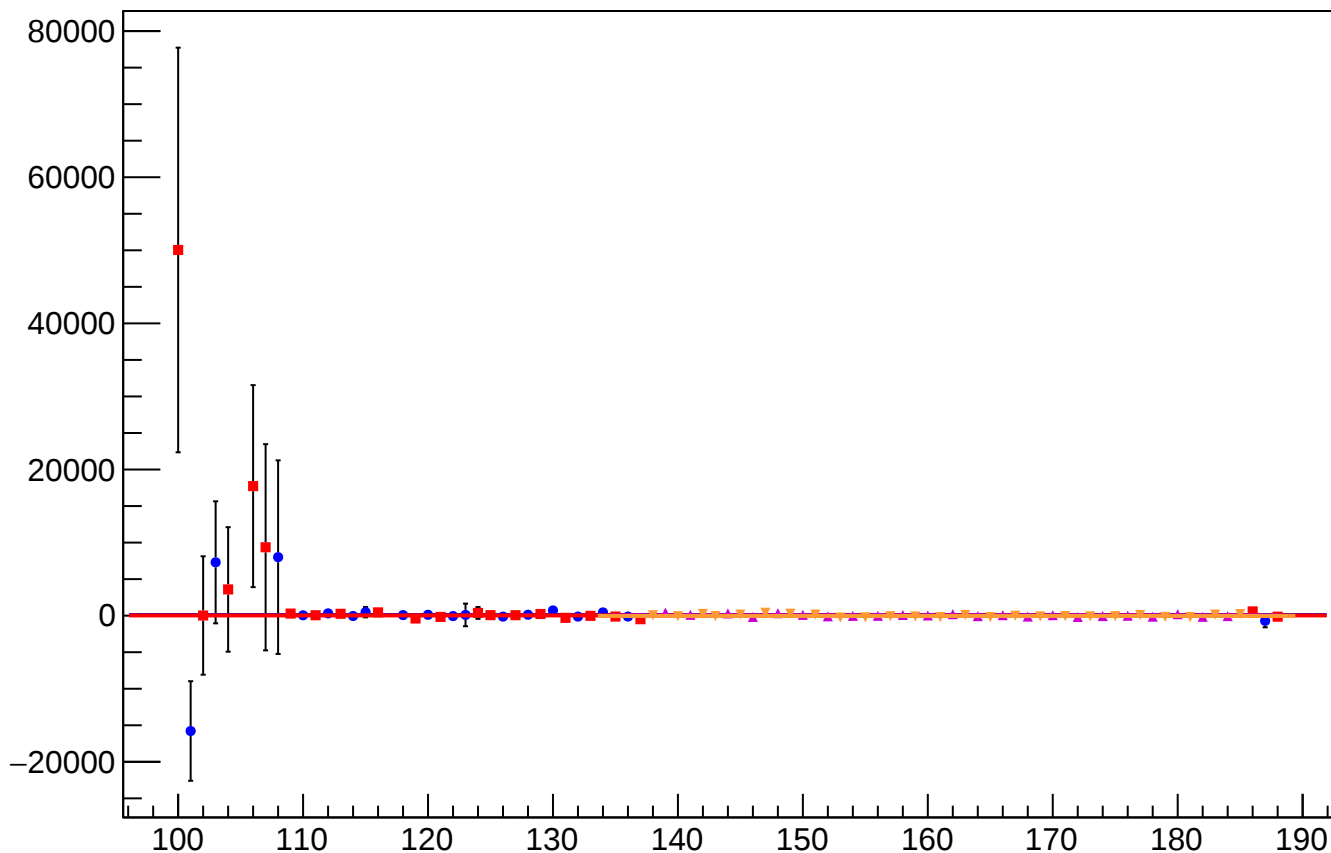
Right: 2.449+/-0.001 χ^2/NDF : 24574754.1/38

In: 2.694+/-0.002 χ^2/NDF : 44890922.1/40

Out: 2.659+/-0.001 χ^2/NDF : 49723429.1/45

All: 2.675+/-0.001 χ^2/NDF : 94614612.1/86

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 90.529+/-91.526 χ^2/NDF : 12.9/17

Left Out: -39.036+/-49.576 χ^2/NDF : 9.1/24

Right Out: 32.949+/-80.174 χ^2/NDF : 15.3/20

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

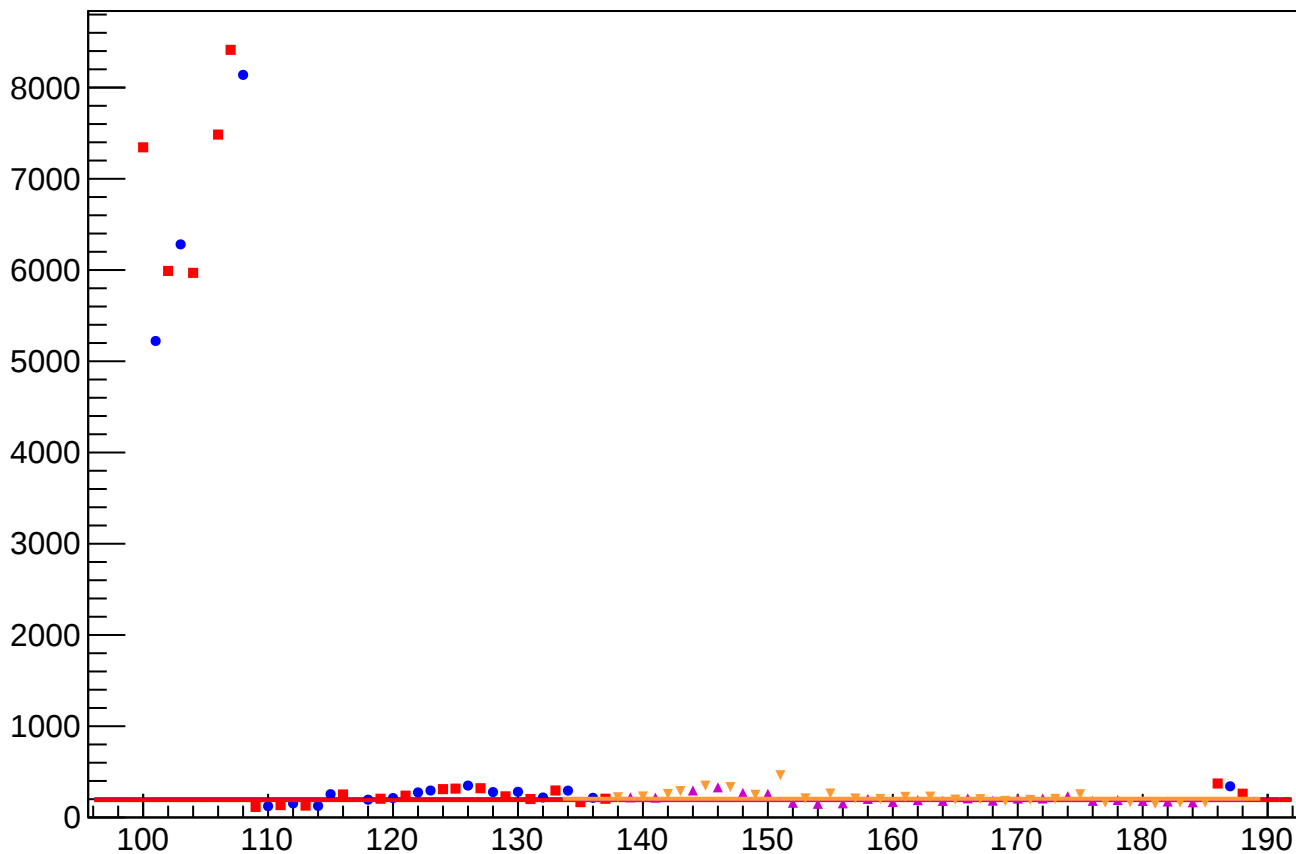
Right: 57.949+/-60.308 χ^2/NDF : 28.4/38

In: 41.550+/-42.531 χ^2/NDF : 22.8/40

Out: -19.125+/-42.166 χ^2/NDF : 25.1/45

All: 10.951+/-29.944 χ^2/NDF : 48.9/86

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 199.207+/-0.065 χ^2/NDF : 3752500.2/17

Left Out: 205.114+/-0.035 χ^2/NDF : 1957484.4/24

Right Out: 189.935+/-0.057 χ^2/NDF : 4656608.9/20

Left In: 193.616+/-0.034 χ^2/NDF : 1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

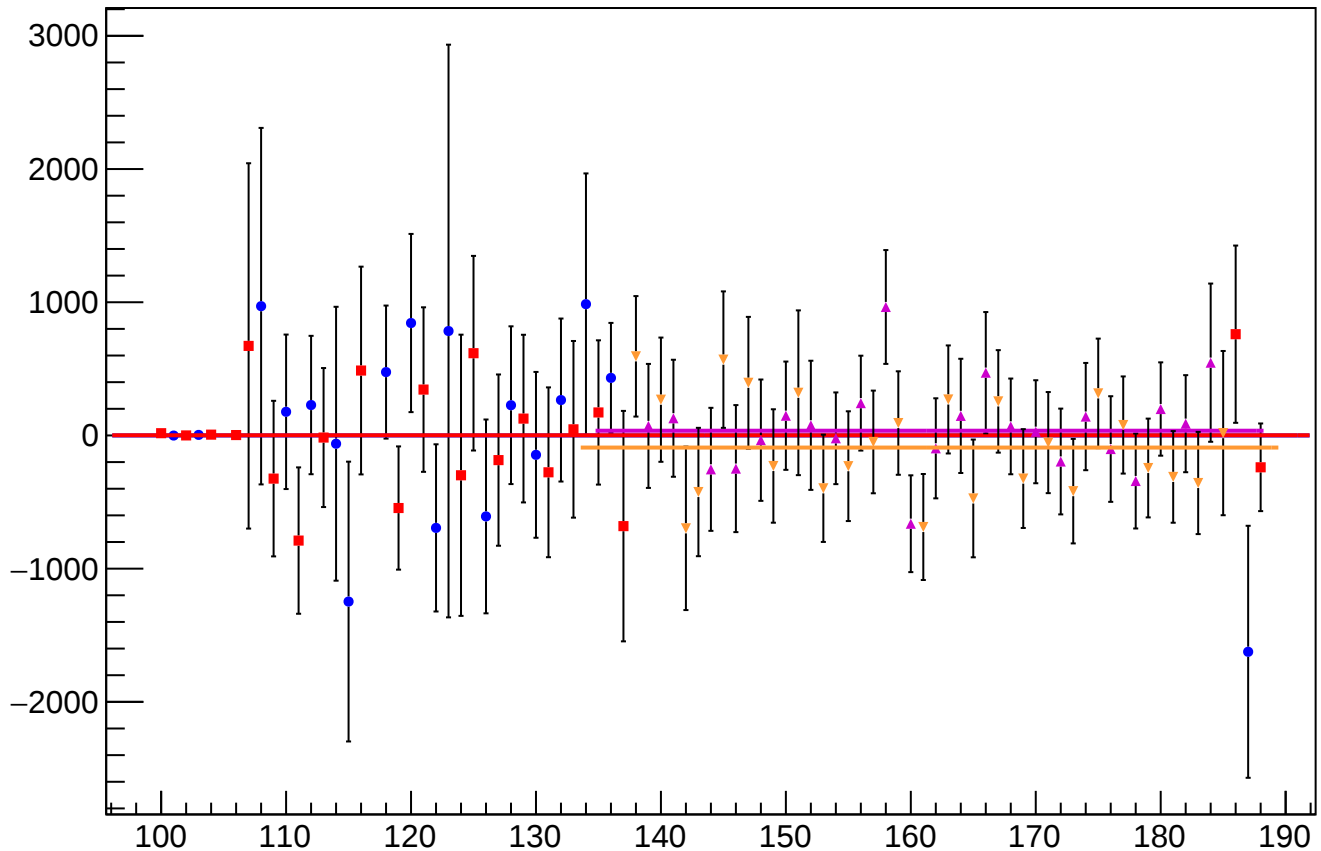
Right: 193.961+/-0.043 χ^2/NDF : 8420723.2/38

In: 194.823+/-0.030 χ^2/NDF : 4937823.1/40

Out: 200.915+/-0.030 χ^2/NDF : 6665950.2/45

All: 197.896+/-0.021 χ^2/NDF : 11624466.4/86

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.146 $\pm$ 1.737 χ^2/NDF : 13.1/17

Left Out: -90.945 $\pm$ 84.079 χ^2/NDF :16.4/24

Right Out: 1.321 $\pm$ 1.623 χ^2/NDF : 11.1/20

Left In: 35.488 $\pm$ 84.382 χ^2/NDF :13.4/22

Left: -27.956 $\pm$ 59.560 χ^2/NDF : 31.0/47

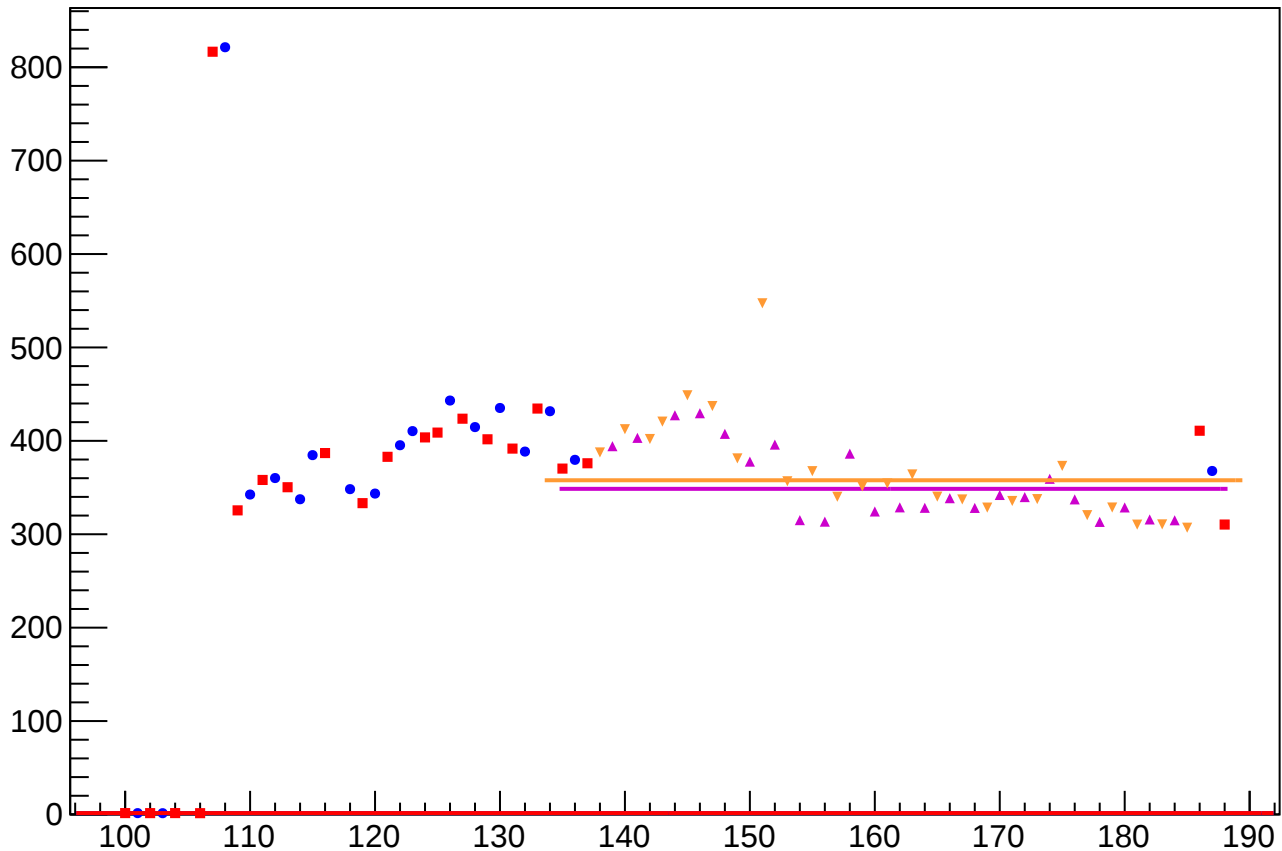
Right: 0.637 $\pm$ 1.186 χ^2/NDF : 24.5/38

In: -0.131 $\pm$ 1.736 χ^2/NDF :26.7/40

Out: 1.287 $\pm$ 1.622 χ^2/NDF :28.7/45

All: 0.626 $\pm$ 1.185 χ^2/NDF : 55.8/86

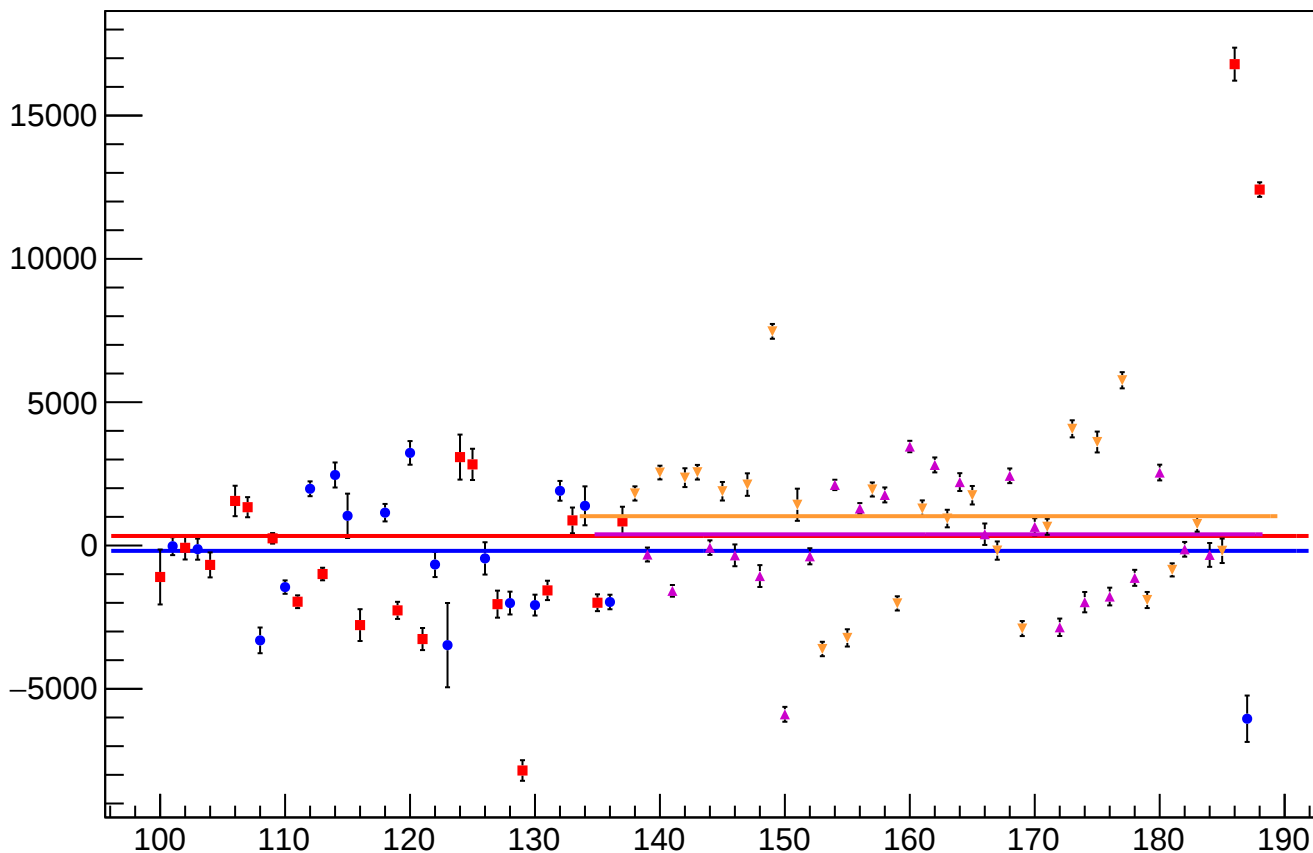
asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.453+/-0.001 χ^2/NDF : 11071583.7/17
 Left Out: 357.804+/-0.059 χ^2/NDF : 547036.5/24
 Right Out: 1.461+/-0.001 χ^2/NDF : 13352233.5/20
 Left In: 348.611+/-0.060 χ^2/NDF : 362511.2/22

Left: 353.224+/-0.042 χ^2/NDF : 921460.0/47
 Right: 1.457+/-0.001 χ^2/NDF : 24423837.8/38
 In: 1.600+/-0.001 χ^2/NDF : 45271471.9/40
 Out: 1.594+/-0.001 χ^2/NDF : 49810888.9/45
 All: 1.597+/-0.001 χ^2/NDF : 95082376.7/86

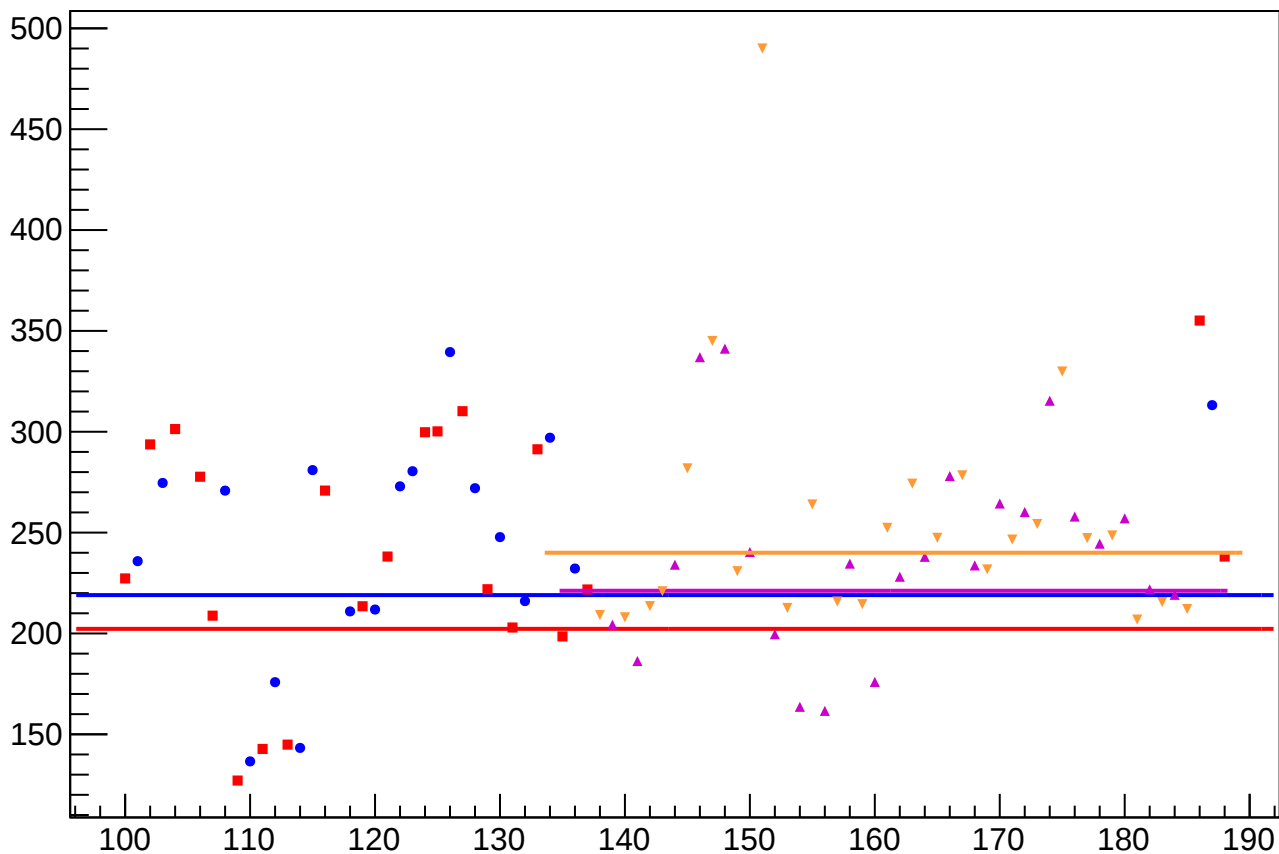
asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -186.585 ± 87.797 $\chi^2/\text{NDF}: 473.4/17$
 Left Out: 1023.439 ± 57.338 $\chi^2/\text{NDF}: 2309.4/24$
 Right Out: 332.954 ± 74.339 $\chi^2/\text{NDF}: 4115.0/20$
 Left In: 390.237 ± 54.931 $\chi^2/\text{NDF}: 1584.9/22$

Left: 693.270 ± 39.666 $\chi^2/\text{NDF}: 3957.9/47$
 Right: 116.014 ± 56.734 $\chi^2/\text{NDF}: 4608.9/38$
 In: 227.963 ± 46.568 $\chi^2/\text{NDF}: 2089.4/40$
 Out: 765.885 ± 45.402 $\chi^2/\text{NDF}: 6478.5/45$
 All: 503.741 ± 32.508 $\chi^2/\text{NDF}: 8636.3/86$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 219.018 ± 0.062 χ^2/NDF : 689412.5/17

Left Out: 240.019 ± 0.041 χ^2/NDF : 1002427.9/24

Right Out: 202.281 ± 0.053 χ^2/NDF : 1382848.4/20

Left In: 221.173 ± 0.039 χ^2/NDF : 1342517.8/22

Left: 230.192 ± 0.028 χ^2/NDF : 2457612.6/47

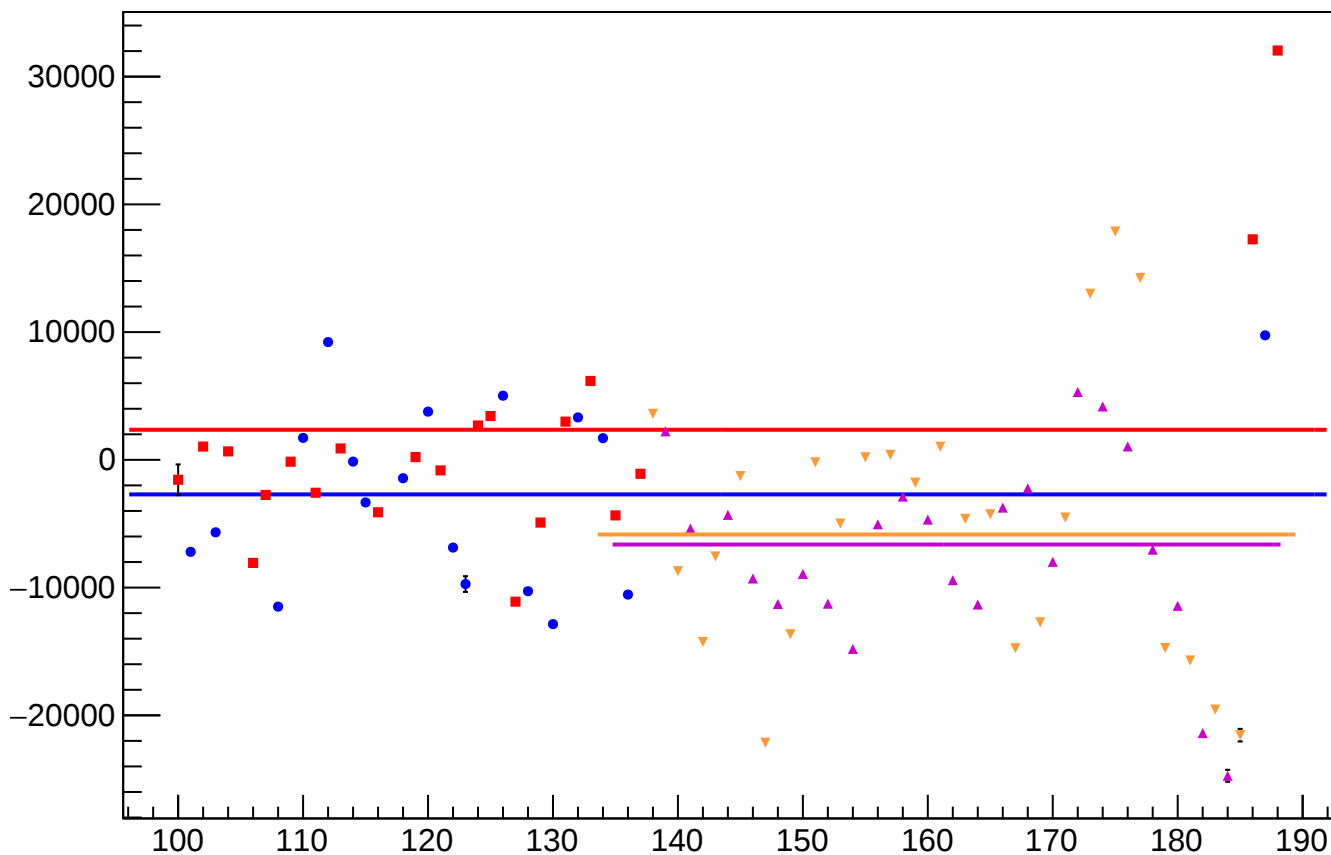
Right: 209.270 ± 0.040 χ^2/NDF : 2114590.2/38

In: 220.566 ± 0.033 χ^2/NDF : 2032796.2/40

Out: 225.943 ± 0.032 χ^2/NDF : 2708431.2/45

All: 223.323 ± 0.023 χ^2/NDF : 4754894.1/86

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2704.313 $\pm$ 48.240 χ^2/NDF : 22175.0/17

Left Out: -5841.615 $\pm$ 35.848 χ^2/NDF :63397.3/24

Right Out: 2354.989 $\pm$ 43.256 χ^2/NDF : 62642.2/20

Left In: -6628.388 $\pm$ 37.160 χ^2/NDF :21738.0/22

Left: -6220.862 $\pm$ 25.800 χ^2/NDF : 85367.5/47

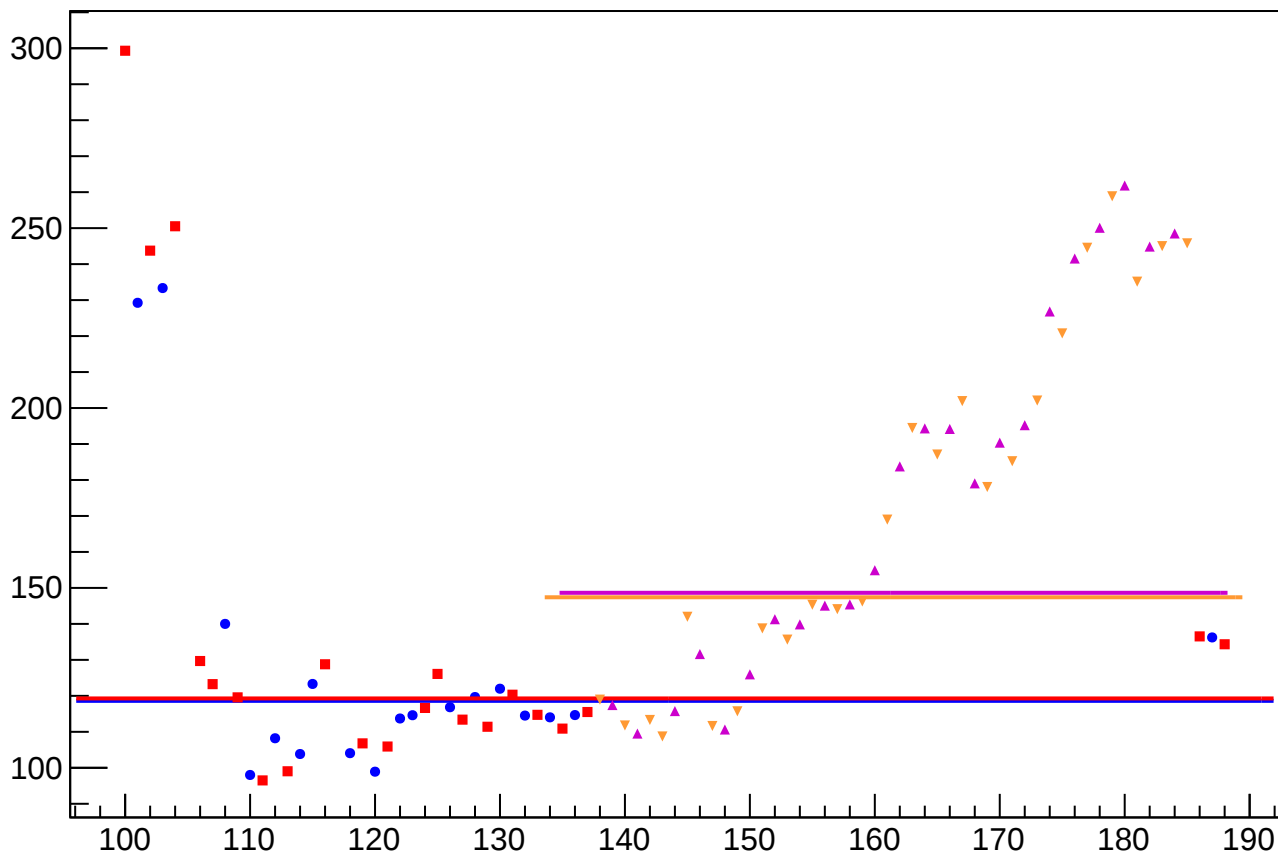
Right: 100.110 $\pm$ 32.205 χ^2/NDF : 90914.1/38

In: -5167.053 $\pm$ 29.439 χ^2/NDF :48065.8/40

Out: -2504.327 $\pm$ 27.601 χ^2/NDF :147326.1/45

All: -3750.014 $\pm$ 20.135 χ^2/NDF : 199745.7/8

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.613+/-0.034 χ^2/NDF : 642097.3/17

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 119.279+/-0.031 χ^2/NDF : 729161.9/20

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

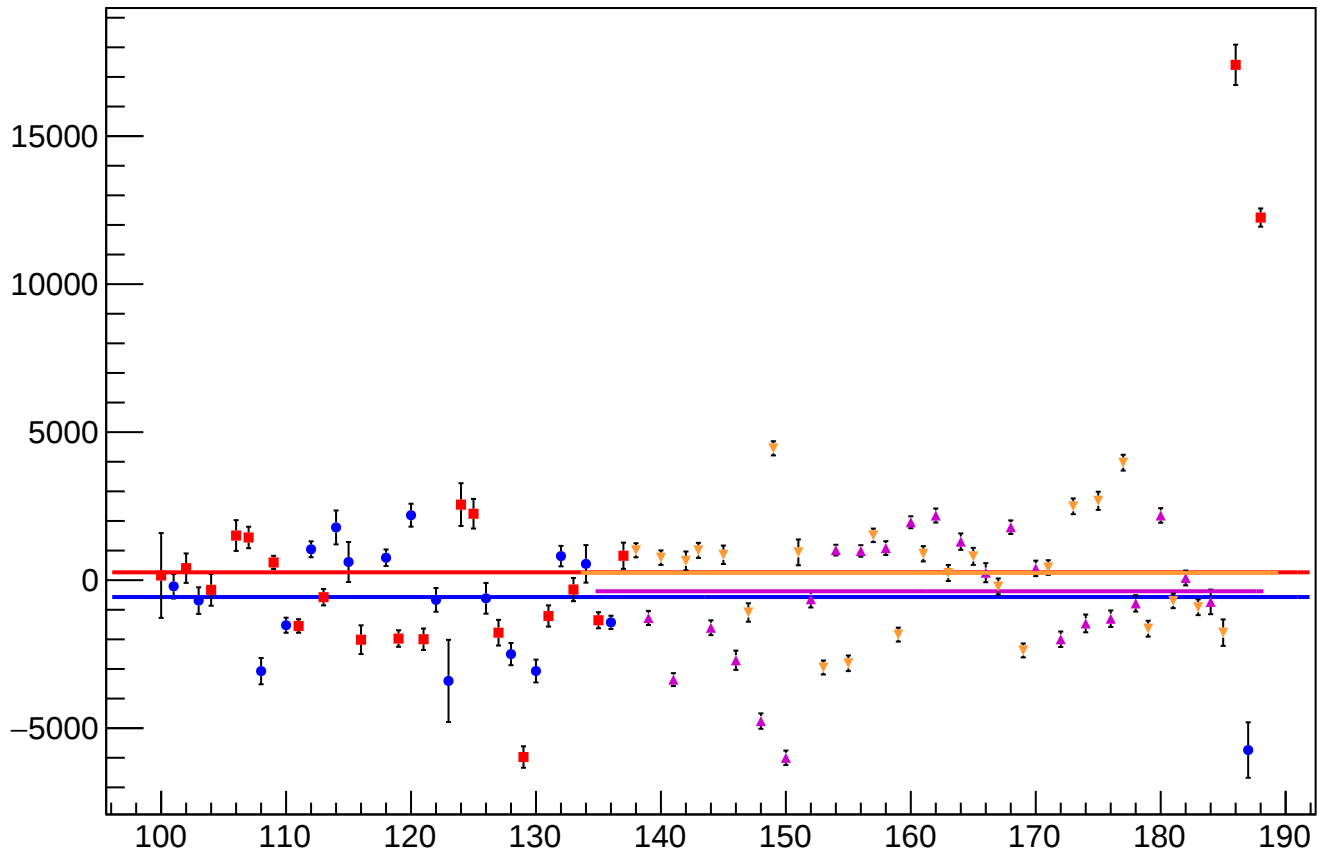
Right: 118.982+/-0.023 χ^2/NDF : 1371470.7/38

In: 137.459+/-0.021 χ^2/NDF : 3544008.2/40

Out: 135.948+/-0.020 χ^2/NDF : 3747216.5/45

All: 136.655+/-0.014 χ^2/NDF : 7294028.3/86

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -570.130 ± 89.000 $\chi^2/\text{NDF}: 313.3/17$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 264.752 ± 78.948 $\chi^2/\text{NDF}: 2760.8/20$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

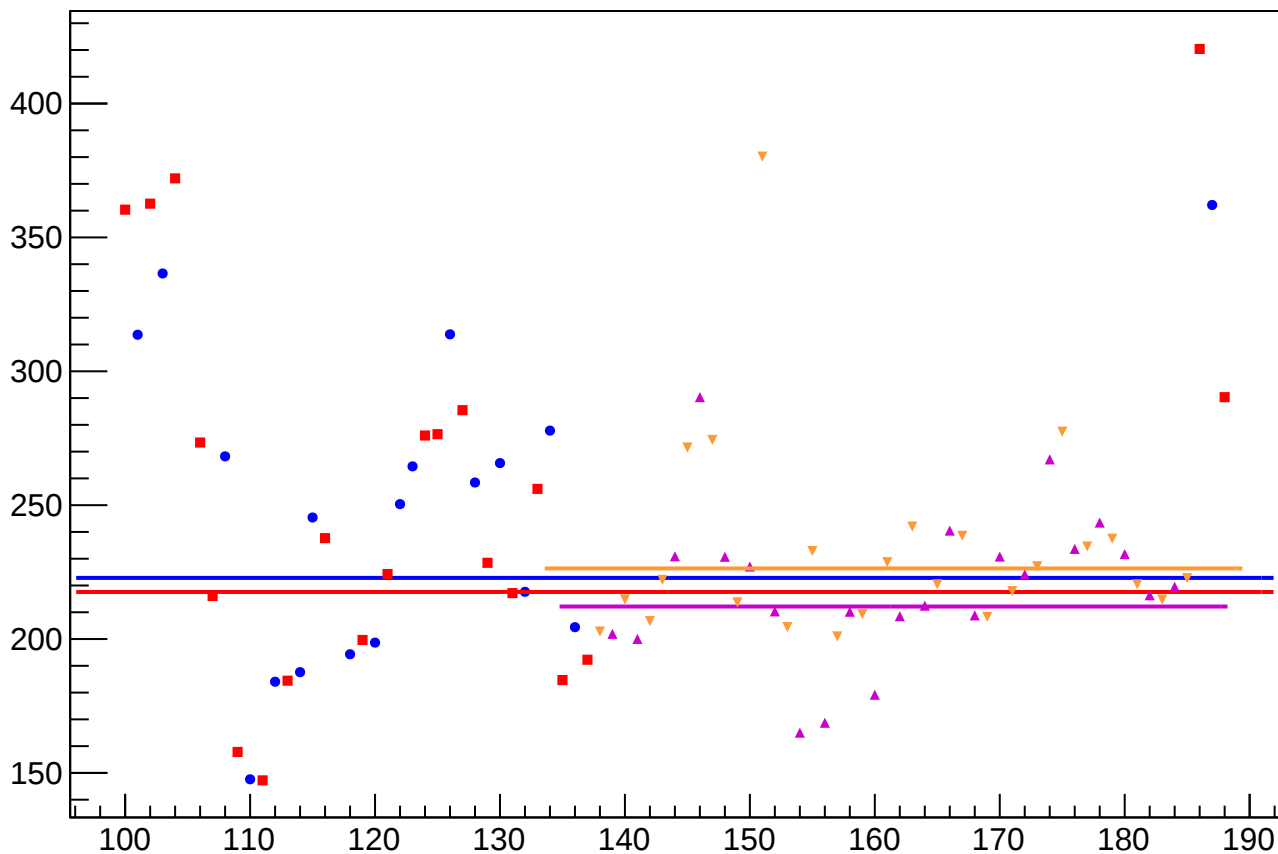
Right: -102.896 ± 59.060 $\chi^2/\text{NDF}: 3123.3/38$

In: -424.106 ± 44.829 $\chi^2/\text{NDF}: 2115.1/40$

Out: 251.982 ± 44.284 $\chi^2/\text{NDF}: 4115.6/45$

All: -81.928 ± 31.504 $\chi^2/\text{NDF}: 6345.9/86$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 222.843 +/- 0.063 χ^2/NDF : 690291.7/17

Left Out: 226.376 +/- 0.038 χ^2/NDF : 521770.1/24

Right Out: 217.581 +/- 0.056 χ^2/NDF : 1187370.1/20

Left In: 212.145 +/- 0.037 χ^2/NDF : 591698.6/22

Left: 219.044 +/- 0.026 χ^2/NDF : 1186390.8/47

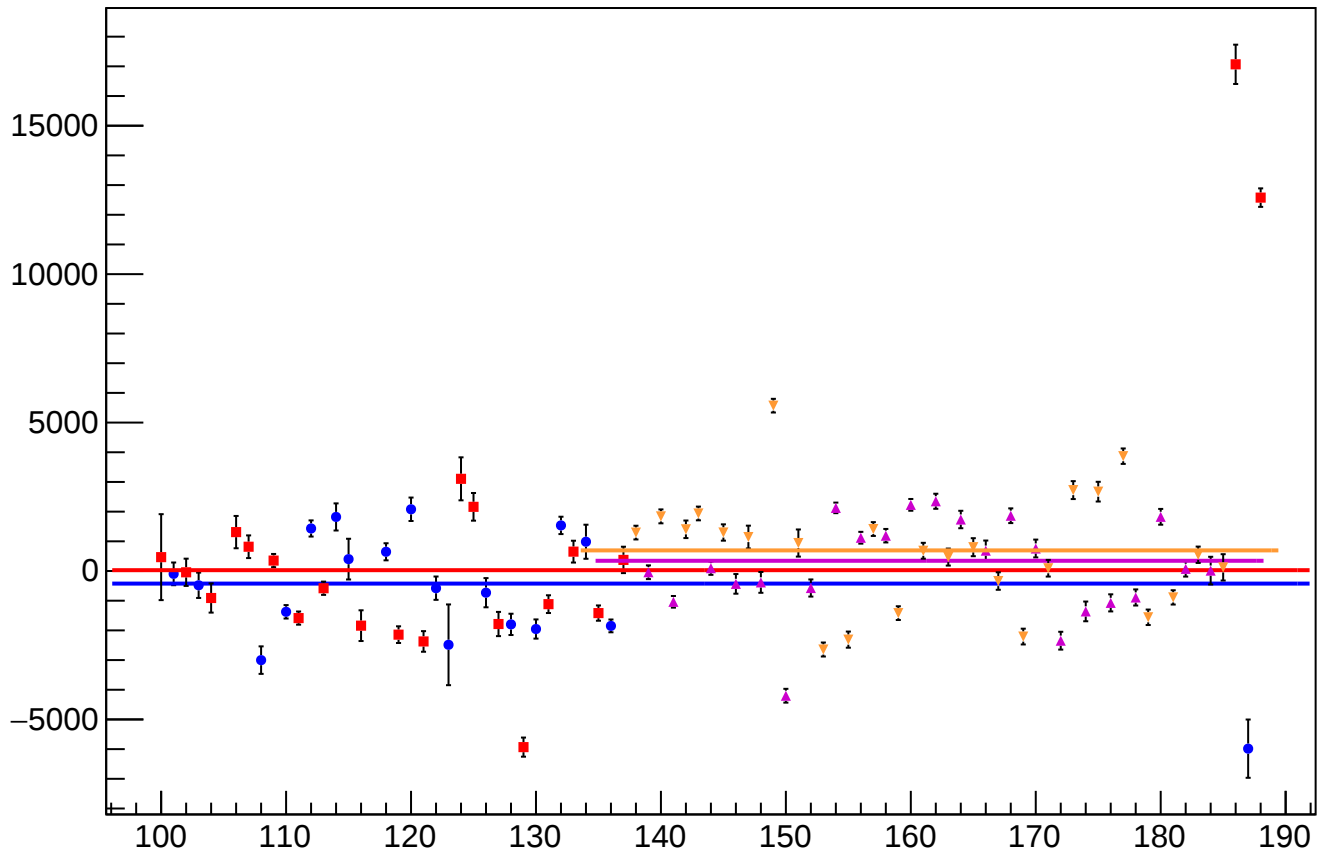
Right: 219.898 +/- 0.042 χ^2/NDF : 1881575.3/38

In: 214.859 +/- 0.032 χ^2/NDF : 1303557.3/40

Out: 223.608 +/- 0.031 χ^2/NDF : 1726151.5/45

All: 219.287 +/- 0.022 χ^2/NDF : 3068265.1/86

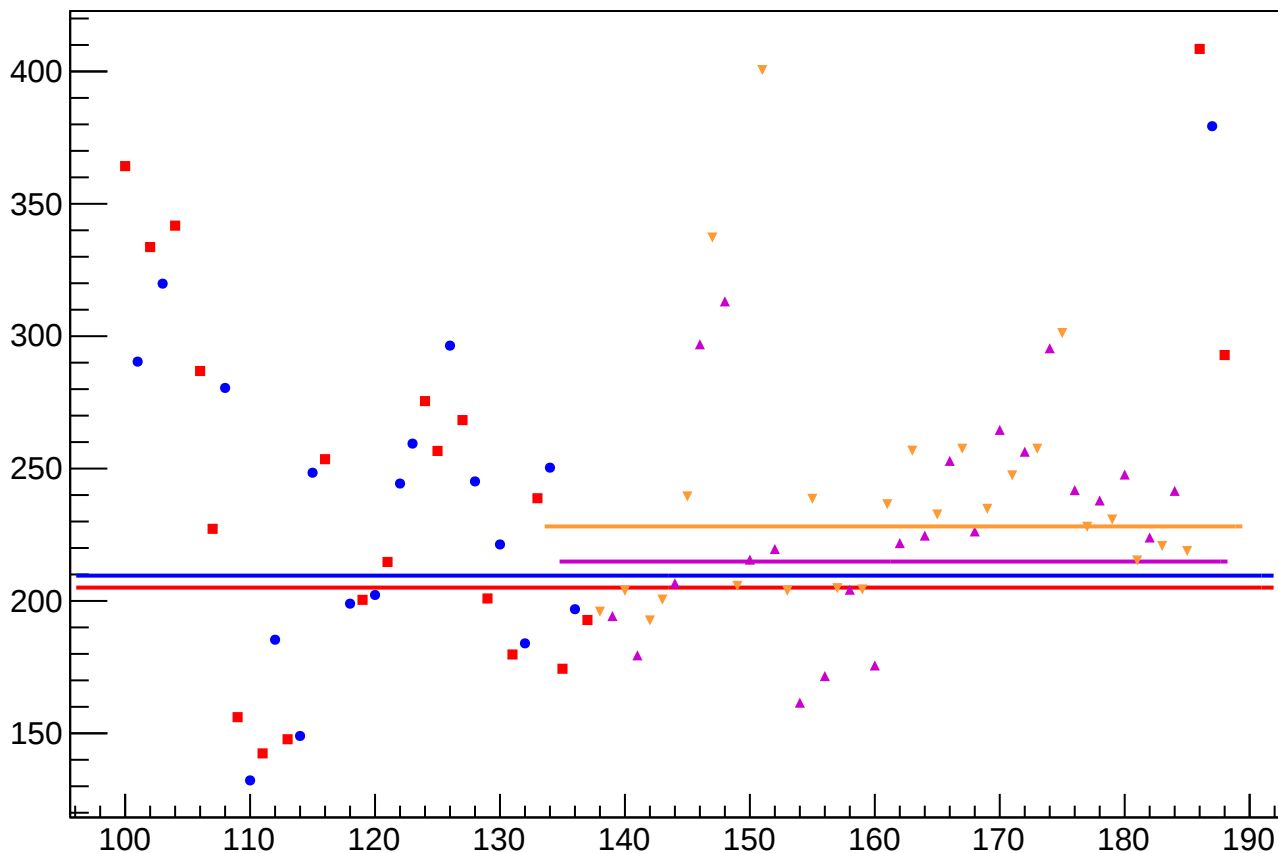
asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -423.878 ± 84.154 χ^2/NDF : 342.2/17
 Left Out: 694.326 ± 54.246 χ^2/NDF : 1422.1/24
 Right Out: 27.944 ± 74.904 χ^2/NDF : 2931.0/20
 Left In: 344.578 ± 52.954 χ^2/NDF : 985.0/22

Left: 515.236 ± 37.893 χ^2/NDF : 2428.4/47
 Right: -171.777 ± 55.951 χ^2/NDF : 3289.4/38
 In: 126.610 ± 44.819 χ^2/NDF : 1387.0/40
 Out: 465.062 ± 43.935 χ^2/NDF : 4405.0/45
 All: 299.208 ± 31.375 χ^2/NDF : 5821.1/86

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 209.561 ± 0.060 $\chi^2/\text{NDF}: 759050.7/17$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 205.042 ± 0.053 $\chi^2/\text{NDF}: 129528.0/20$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

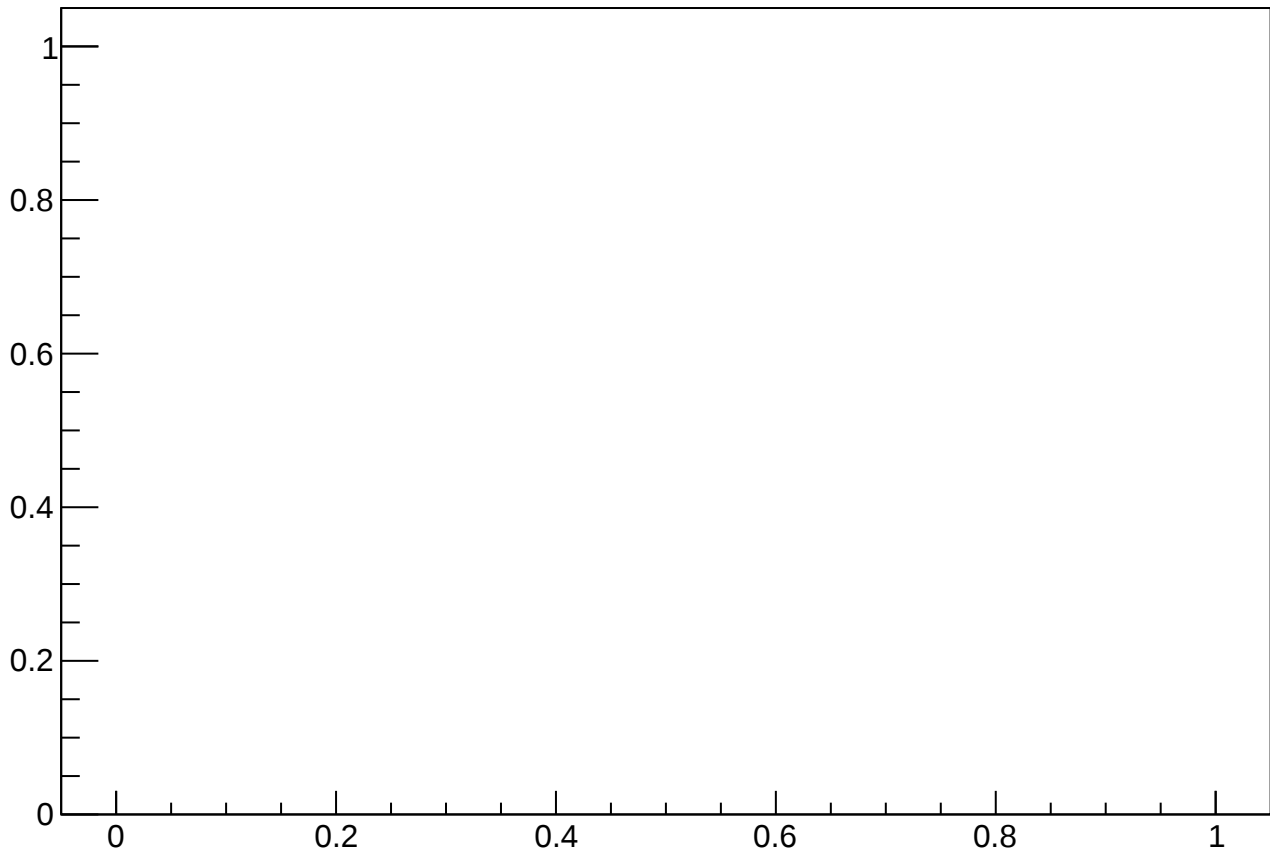
Right: 207.039 ± 0.040 $\chi^2/\text{NDF}: 2057796.9/38$

In: 213.370 ± 0.032 $\chi^2/\text{NDF}: 1802279.8/40$

Out: 220.196 ± 0.031 $\chi^2/\text{NDF}: 2248722.2/45$

All: 216.851 ± 0.022 $\chi^2/\text{NDF}: 4074657.3/86$

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

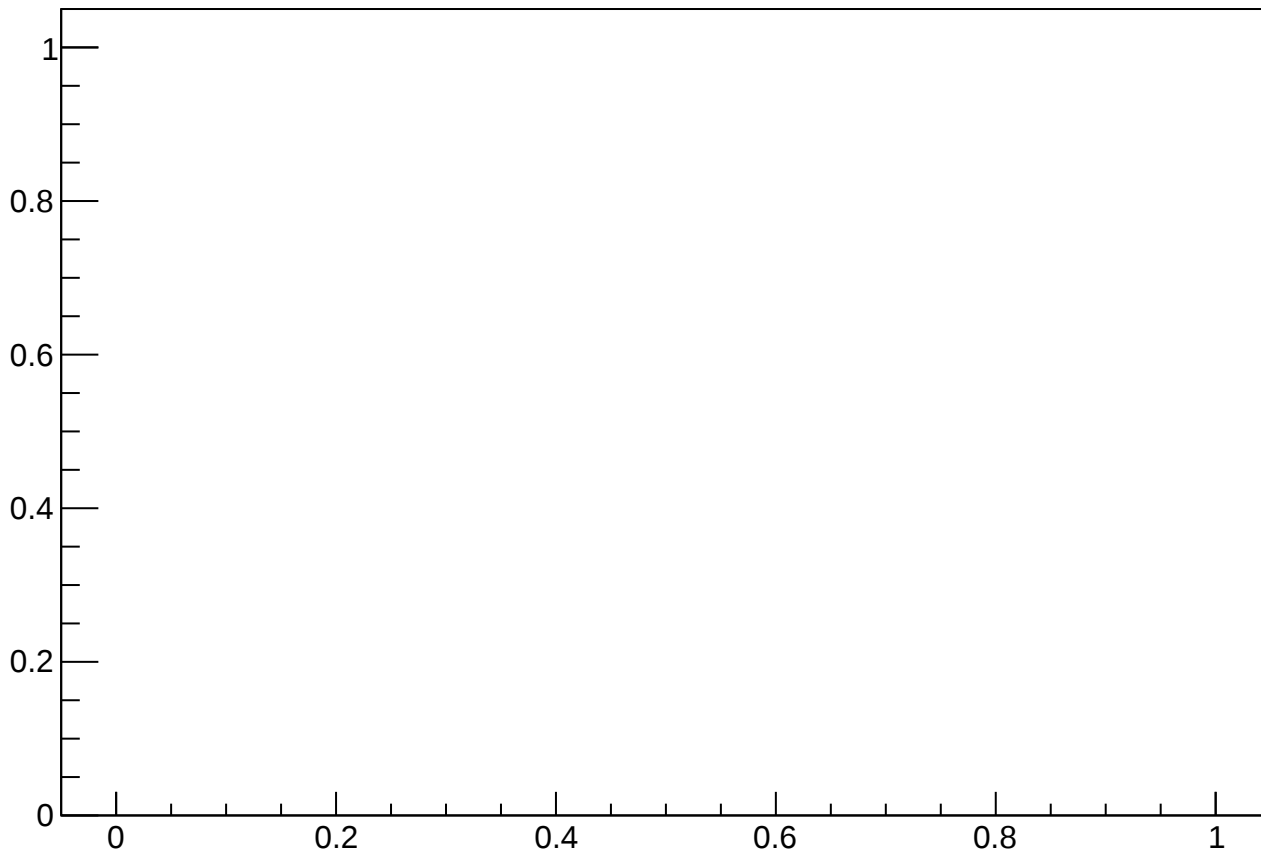
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

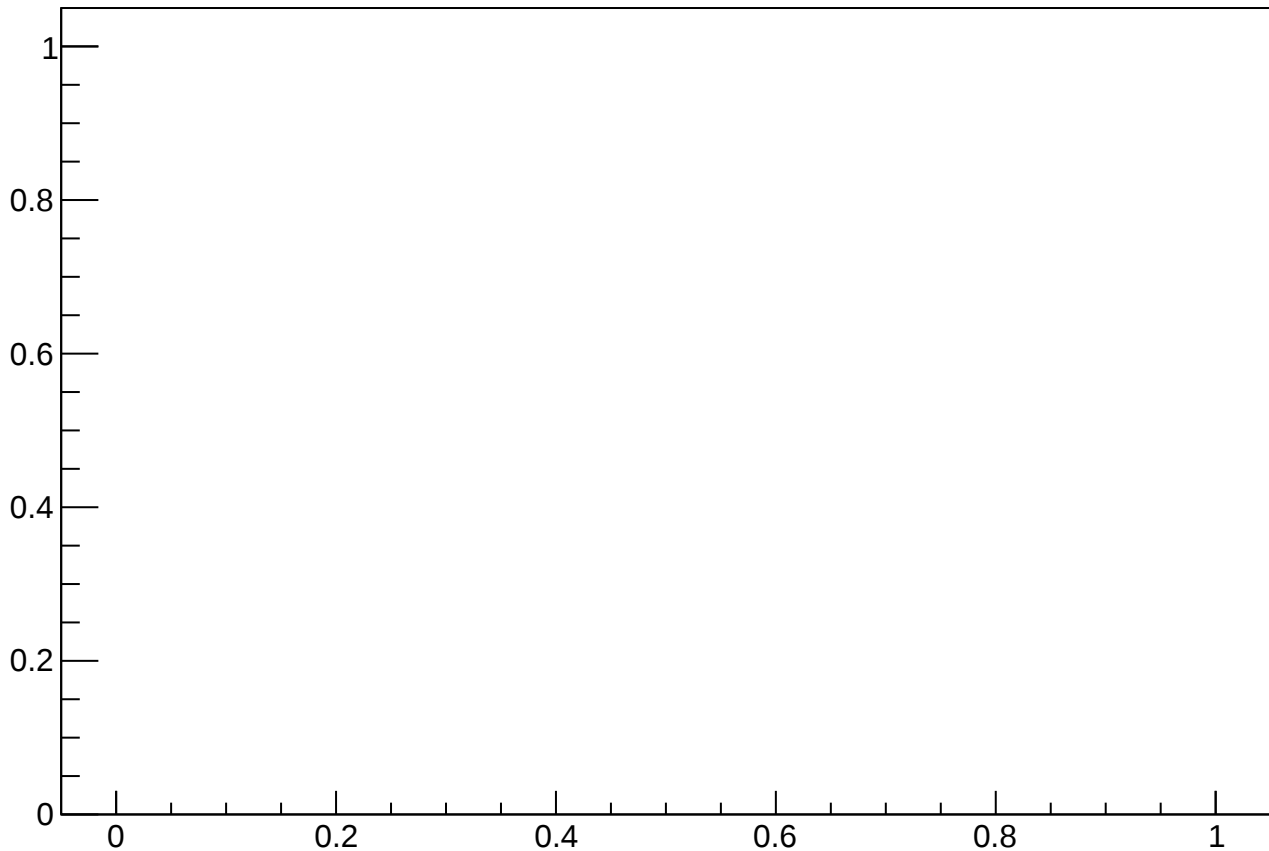
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

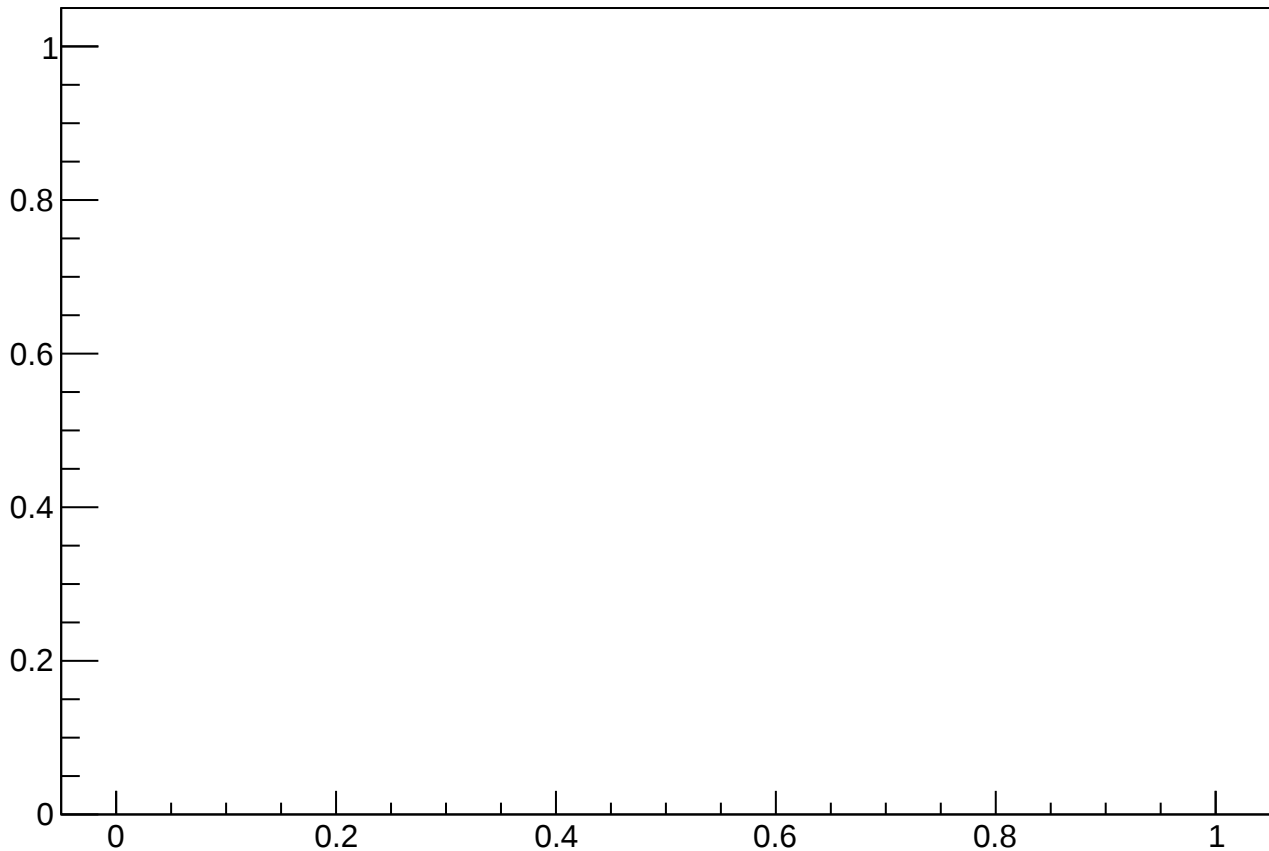
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

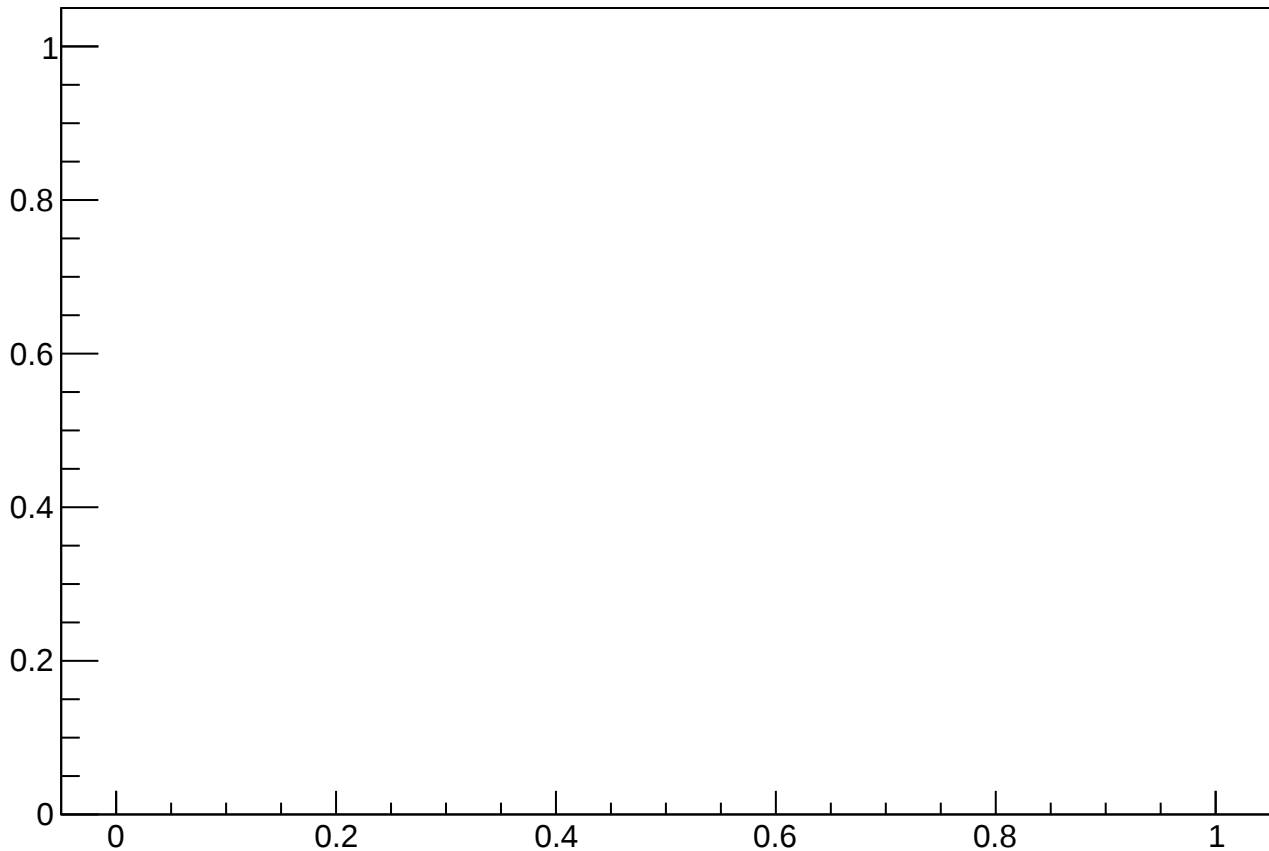
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

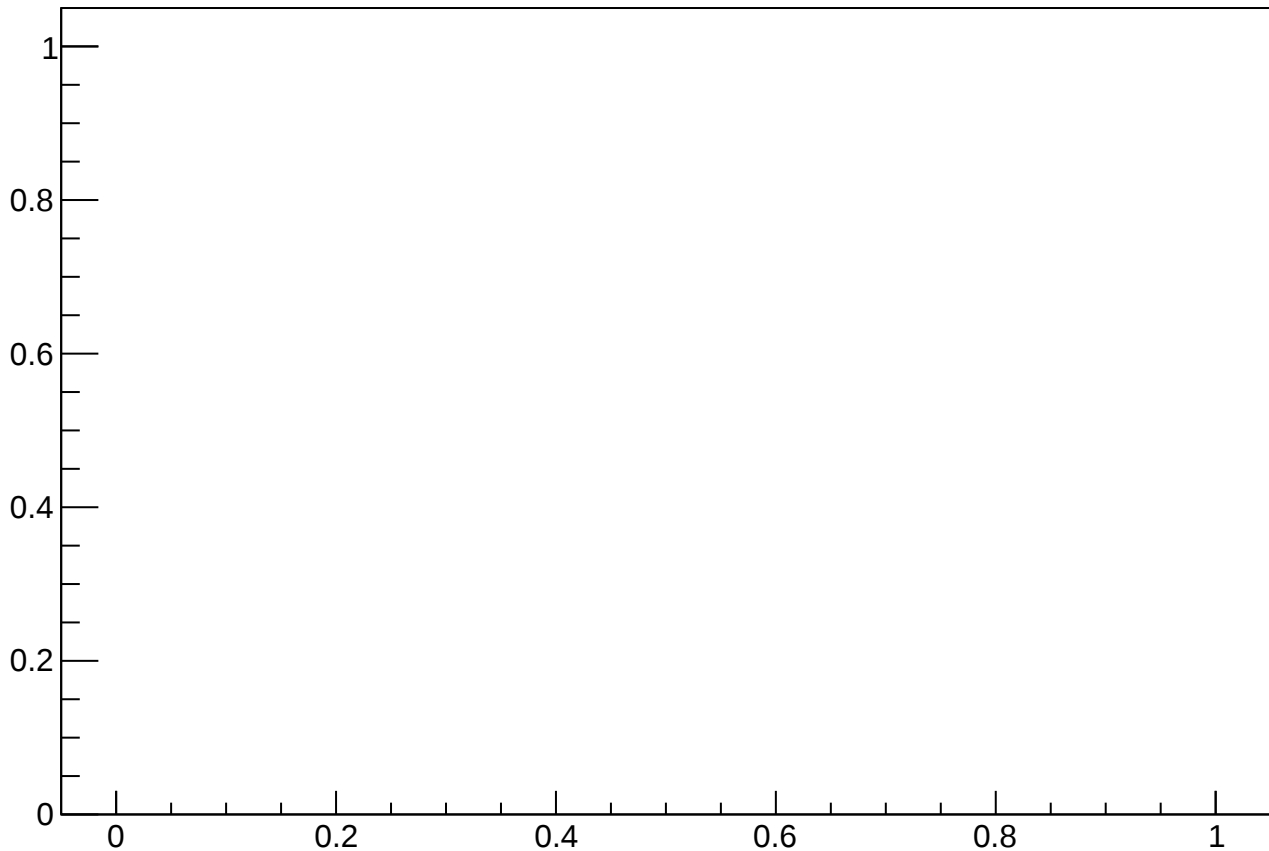
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

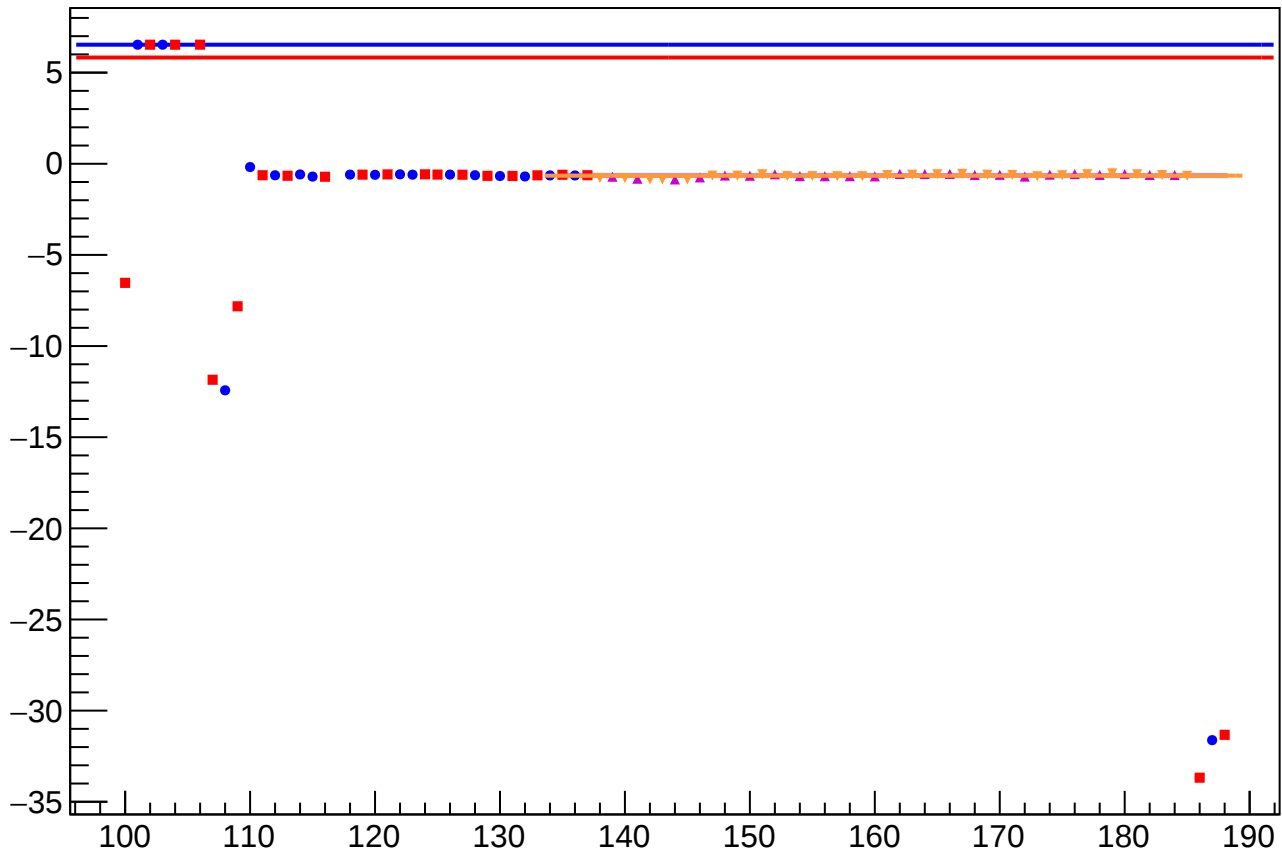
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 127616000900.0/17

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962031232803.0/20

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

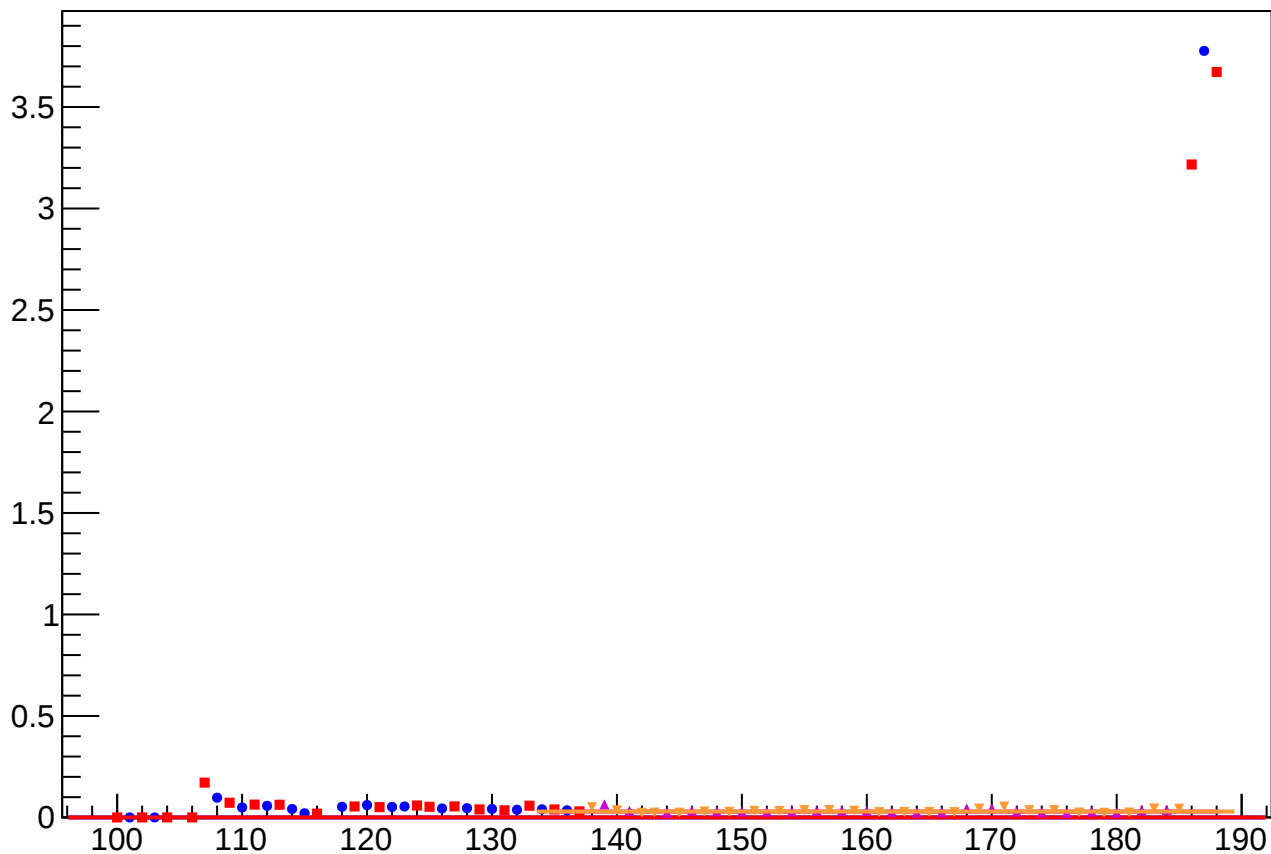
Right: 6.155+/-0.000 χ^2/NDF : 776093612197616.4

In: 6.530+/-0.000 χ^2/NDF : 961734611032.4/40

Out: 5.826+/-0.000 χ^2/NDF : 756673048141796.6/4

All: 6.153+/-0.000 χ^2/NDF : 77762704412011

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9126835.3/17

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11736291.5/20

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

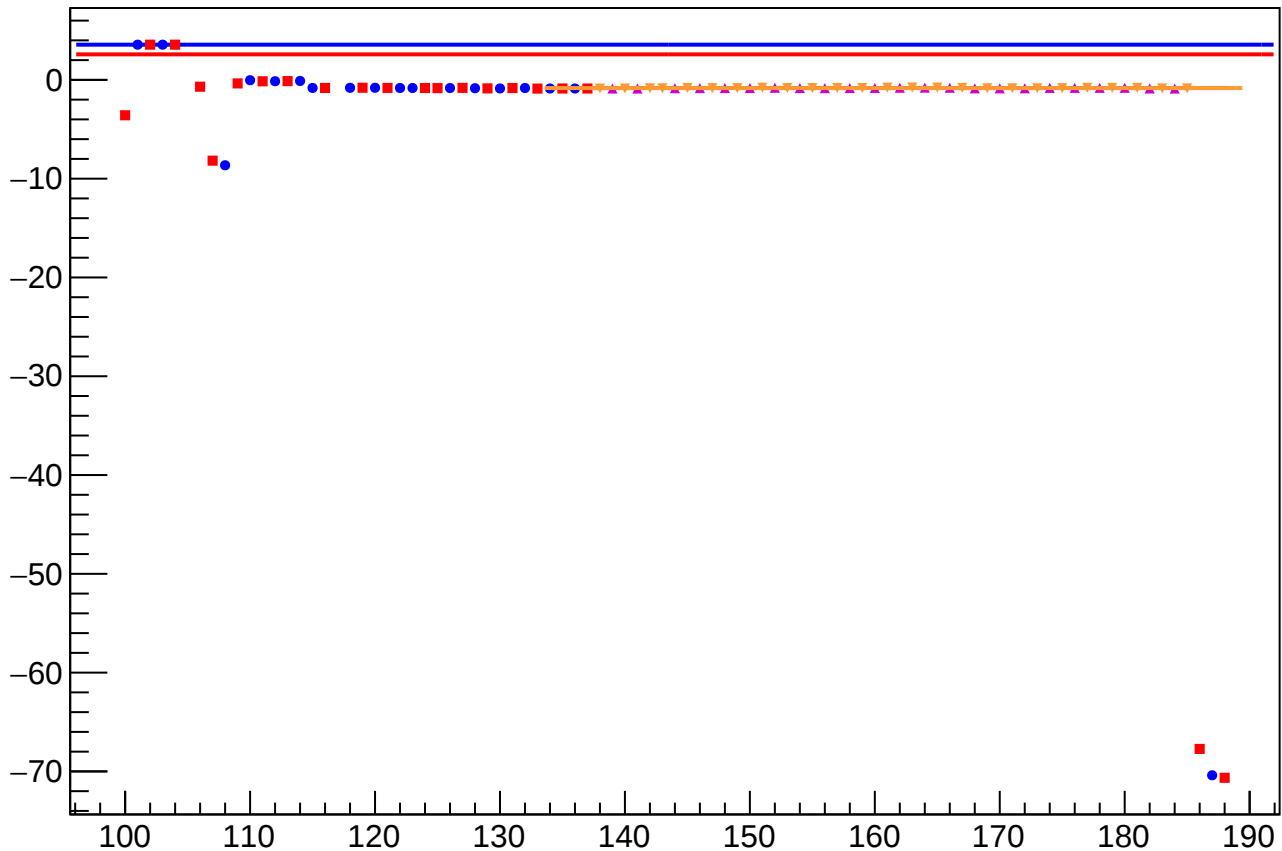
Right: 0.000+/-0.000 χ^2/NDF : 20863374.1/38

In: 0.000+/-0.000 χ^2/NDF :37304659.9/40

Out: 0.000+/-0.000 χ^2/NDF :41704349.4/45

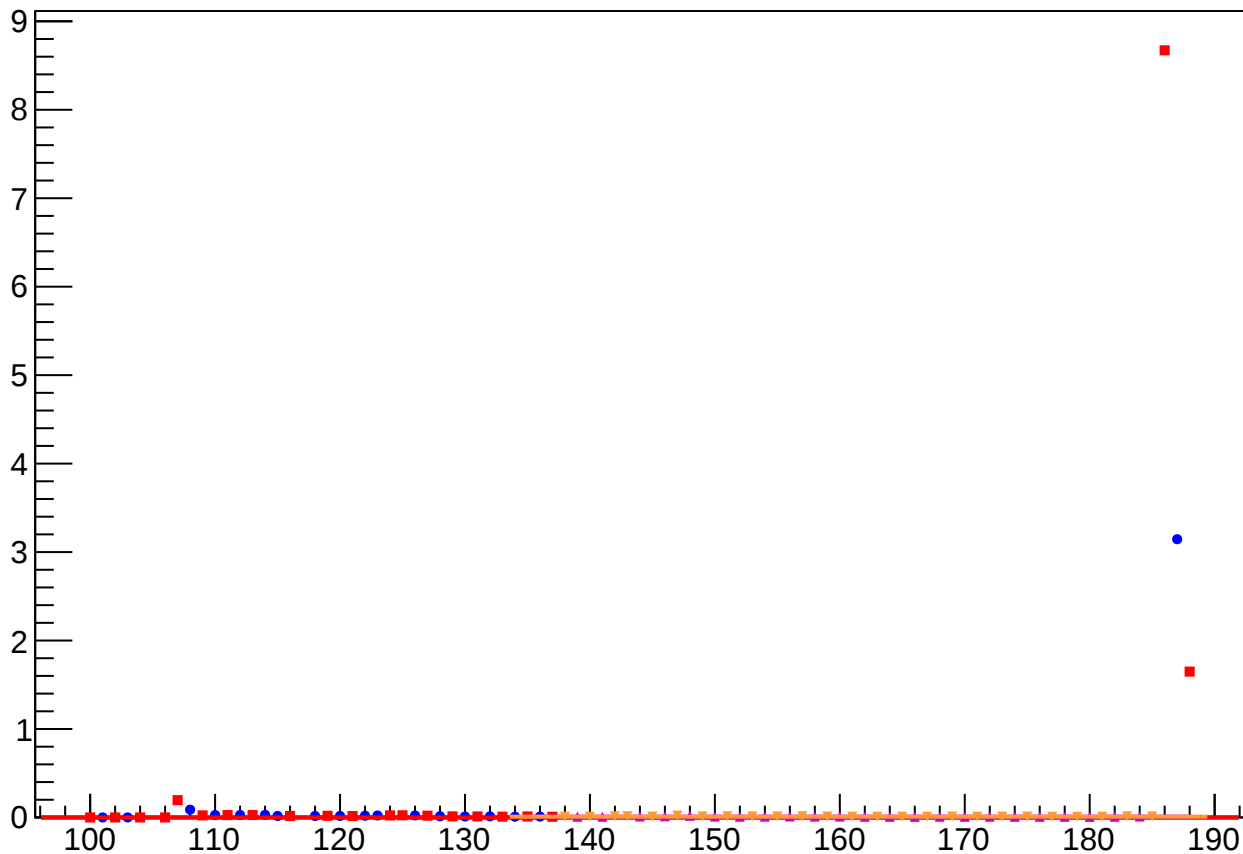
All: 0.000+/-0.000 χ^2/NDF : 79009434.5/86

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 480221583059.6/17	Left: -0.827+/-0.000	χ^2/NDF : 344237775.5/47
Left Out: -0.827+/-0.000	χ^2/NDF : 170052639.9/24	Right: 3.040+/-0.000	χ^2/NDF : 1382254342151188.0
Right Out: 2.583+/-0.000	χ^2/NDF : 1253502998158802.0/20	In: 3.560+/-0.000	χ^2/NDF : 4160783909682.2/40
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255733900264695.5
		All: 3.038+/-0.000	χ^2/NDF : 13879789057909.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9977740.5/17

Left Out: 0.009+/-0.000 χ^2/NDF : 1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 12165771.0/20

Left In: 0.009+/-0.000 χ^2/NDF : 1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

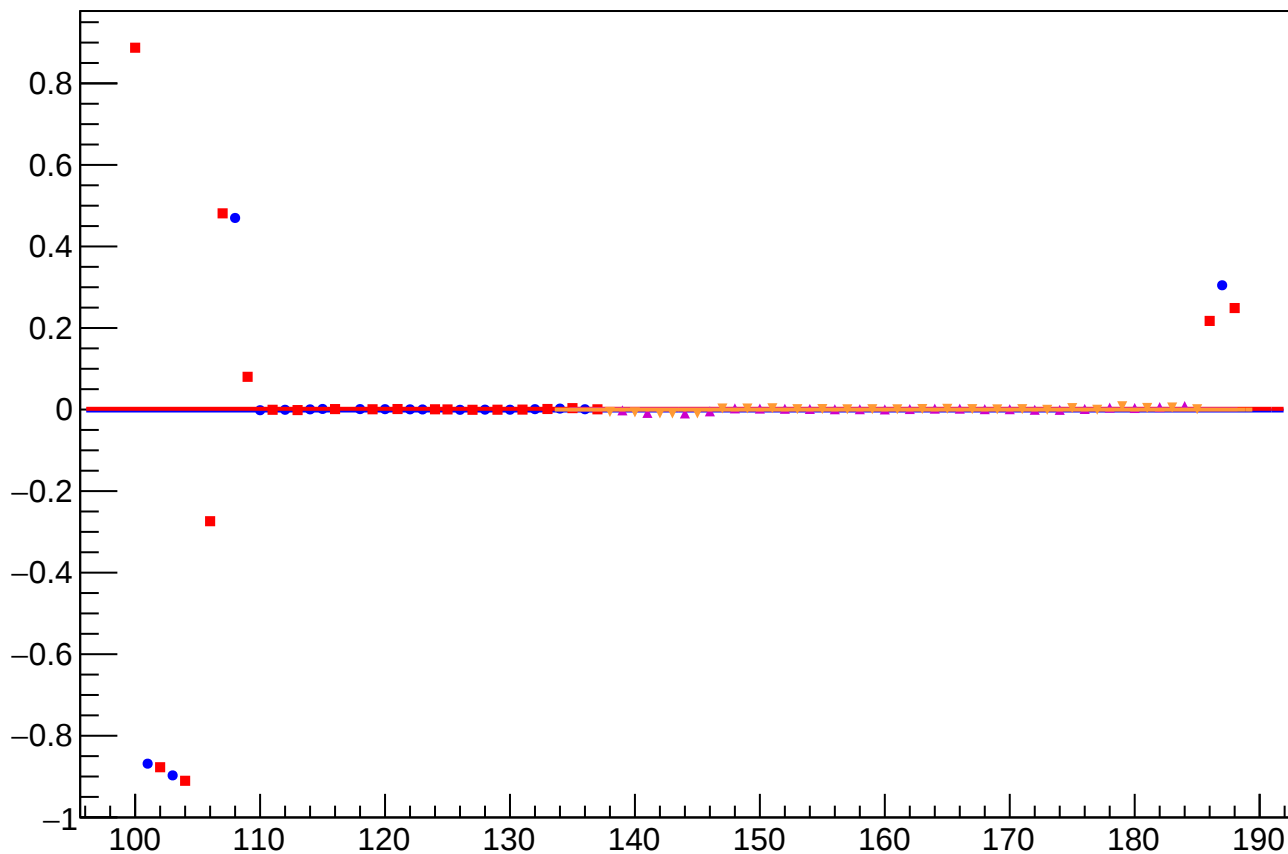
Right: 0.000+/-0.000 χ^2/NDF : 22143784.9/38

In: 0.000+/-0.000 χ^2/NDF : 39774980.9/40

Out: 0.000+/-0.000 χ^2/NDF : 43684001.7/45

All: 0.000+/-0.000 χ^2/NDF : 83459760.0/86

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9794891607.7/17

Left: 0.000+/-0.000 χ^2/NDF : 254489625.0/47

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right: -0.000+/-0.000 χ^2/NDF : 12850402404.9/38

Right Out: 0.002+/-0.000

χ^2/NDF : 3041364870.3/20

In: -0.000+/-0.000 χ^2/NDF : 9907807905.7/40

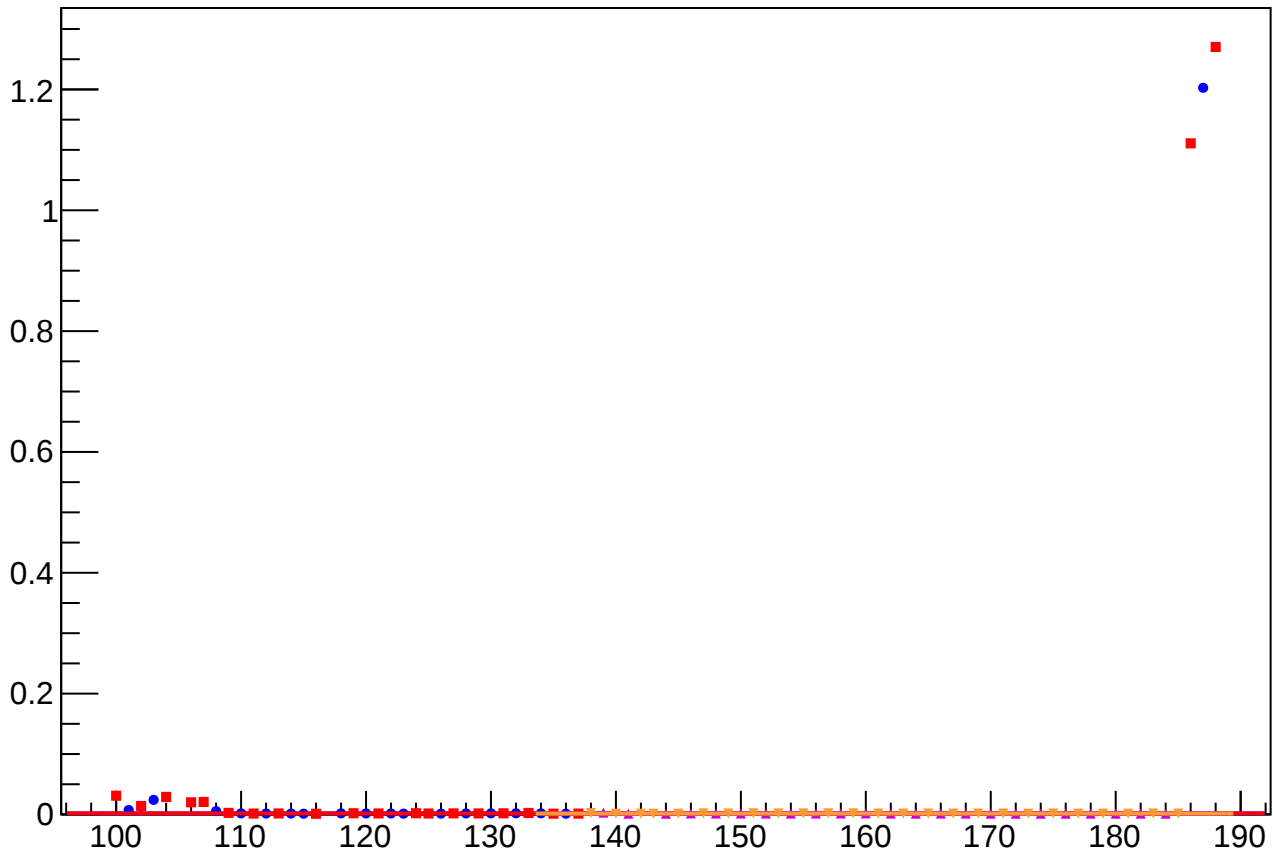
Out: 0.000+/-0.000 χ^2/NDF : 3197595803.6/45

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

All: 0.000+/-0.000 χ^2/NDF : 13105775177.5/8

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2204467.8/17

Left Out: 0.001+/-0.000 χ^2/NDF : 539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5410891.5/20

Left In: 0.001+/-0.000 χ^2/NDF : 659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

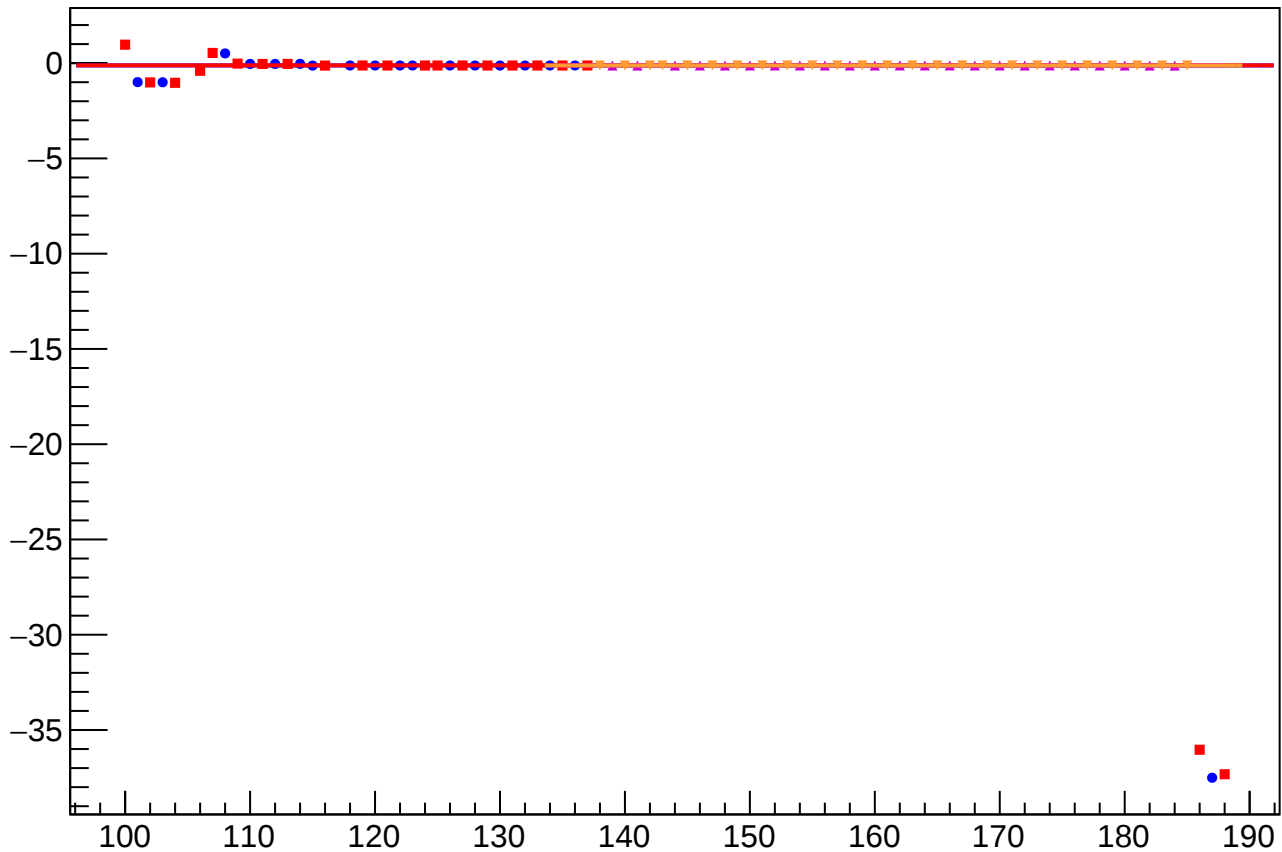
Right: 0.002+/-0.000 χ^2/NDF : 7623316.9/38

In: 0.002+/-0.000 χ^2/NDF : 2915051.7/40

Out: 0.002+/-0.000 χ^2/NDF : 6083593.5/45

All: 0.002+/-0.000 χ^2/NDF : 8999267.7/86

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 4099027707.2/17

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.115+/-0.000 χ^2/NDF : 7841144523.4/20

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

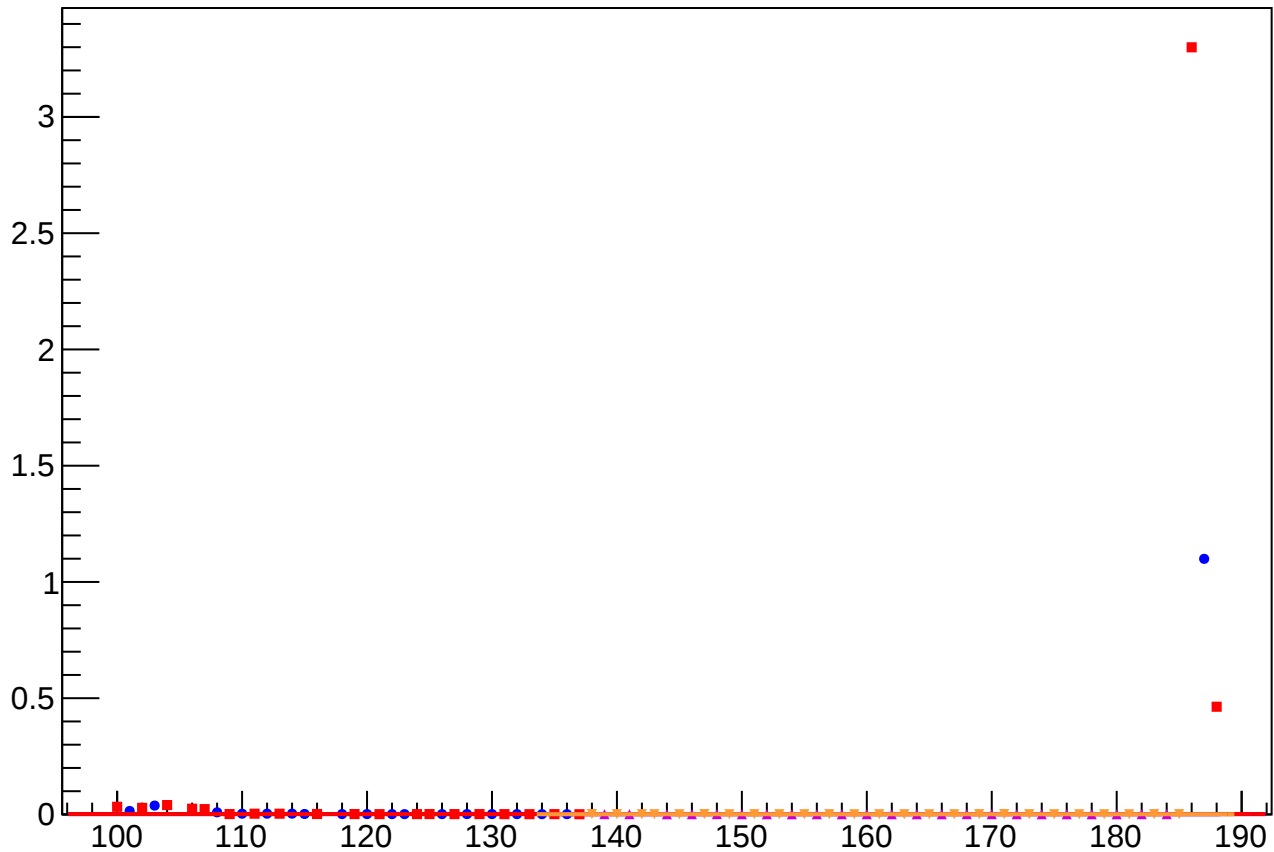
Right: -0.118+/-0.000 χ^2/NDF : 11962289289.6/38

In: -0.121+/-0.000 χ^2/NDF : 4152770718.8/40

Out: -0.121+/-0.000 χ^2/NDF : 7953335700.0/45

All: -0.121+/-0.000 χ^2/NDF : 12107019149.2/100

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3184272.5/17

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5892685.9/20

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

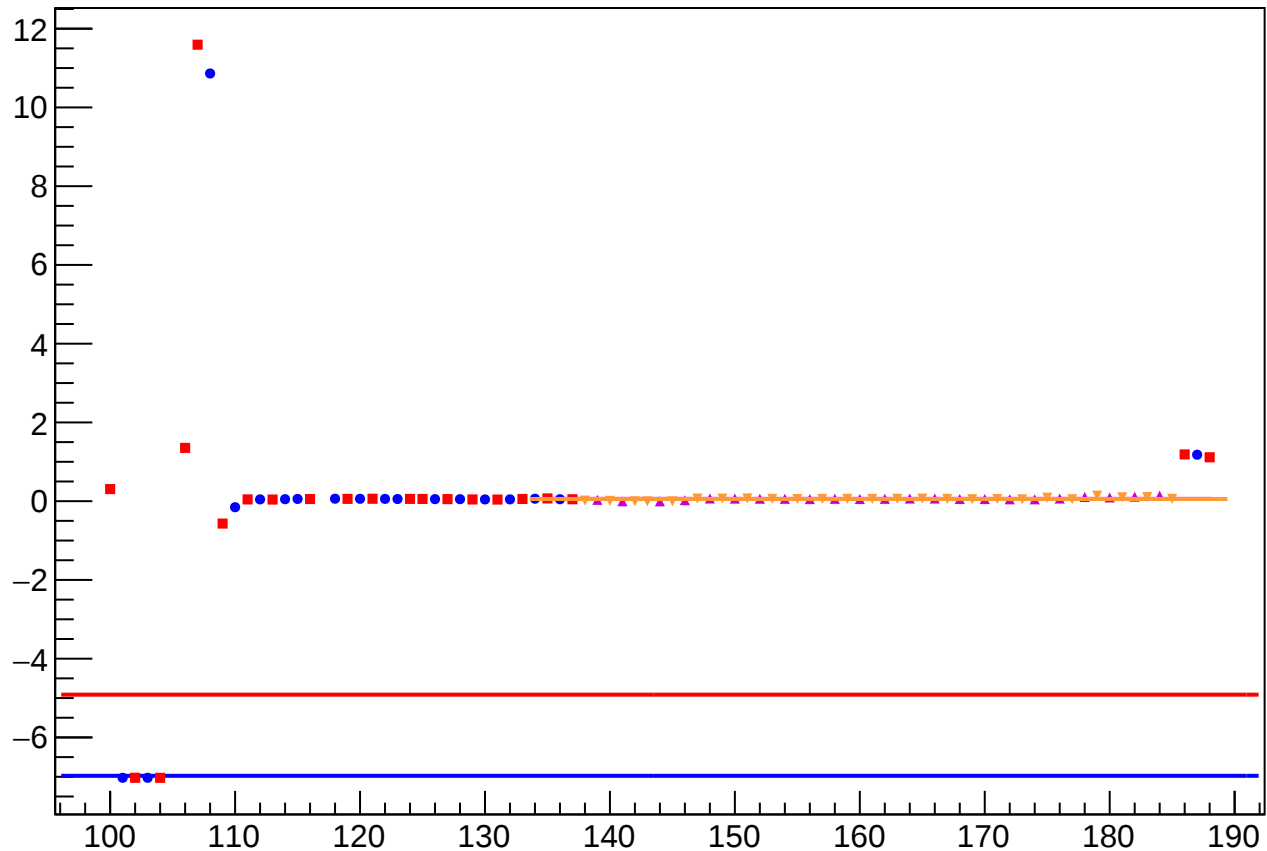
Right: 0.002+/-0.000 χ^2/NDF : 9076994.5/38

In: 0.001+/-0.000 χ^2/NDF :5274713.5/40

Out: 0.001+/-0.000 χ^2/NDF :8400583.9/45

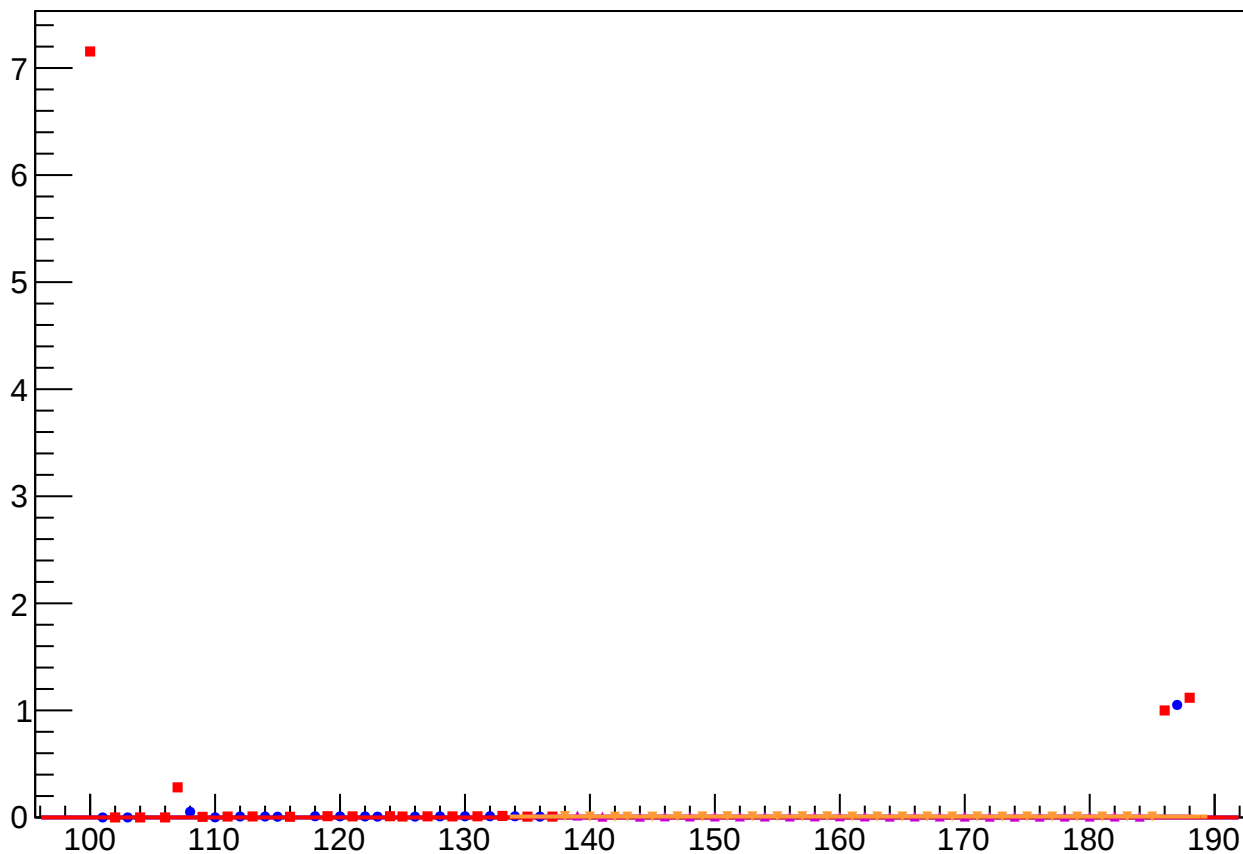
All: 0.001+/-0.000 χ^2/NDF : 13677401.5/86

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762457662678.7/17$ 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 $\chi^2/\text{NDF}: 430303248299121.6$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348571480750.2/20$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17604986489386.1/40$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175259233961.7/20$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435812151924$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8511724.9/17

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11148291.0/20

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

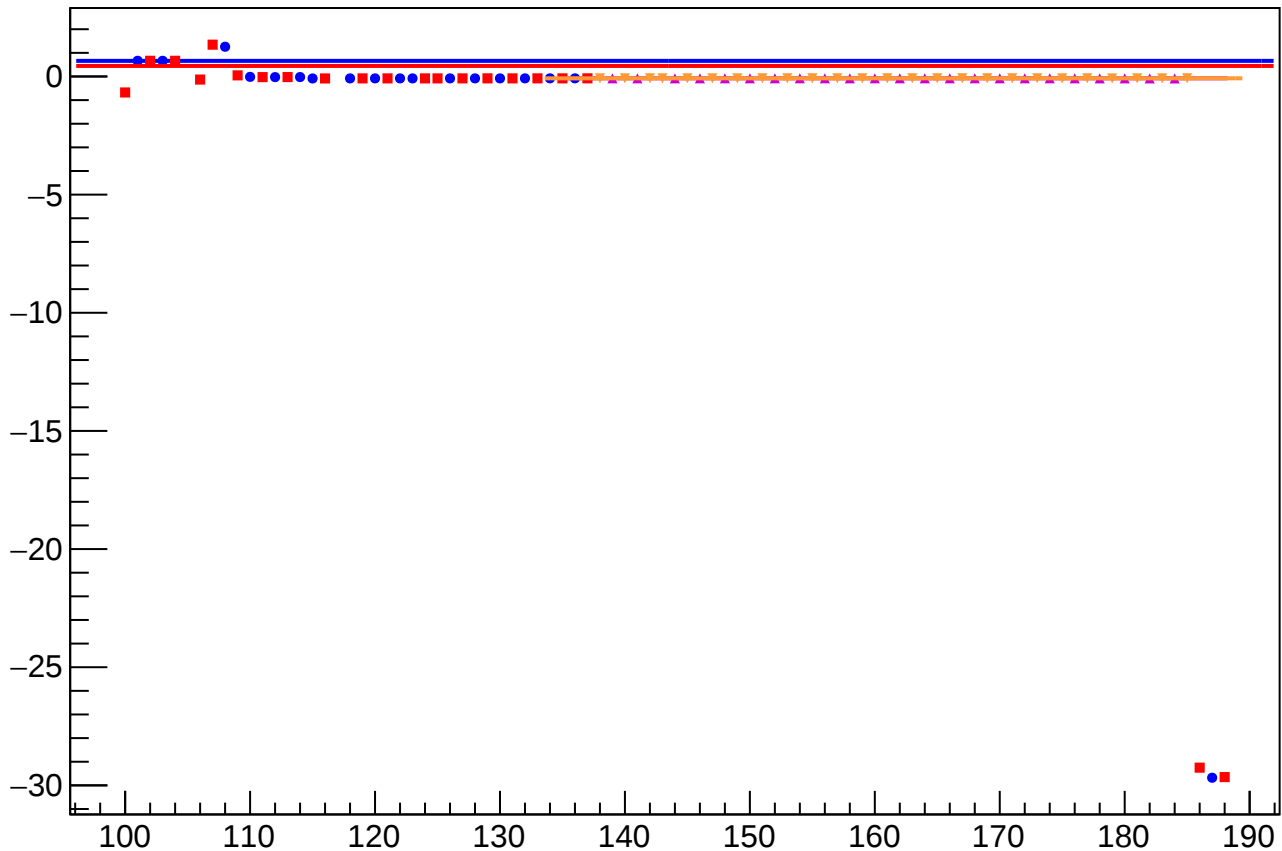
Right: 0.000+/-0.000 χ^2/NDF : 19660317.9/38

In: 0.000+/-0.000 χ^2/NDF : 36149324.4/40

Out: 0.000+/-0.000 χ^2/NDF : 40177135.8/45

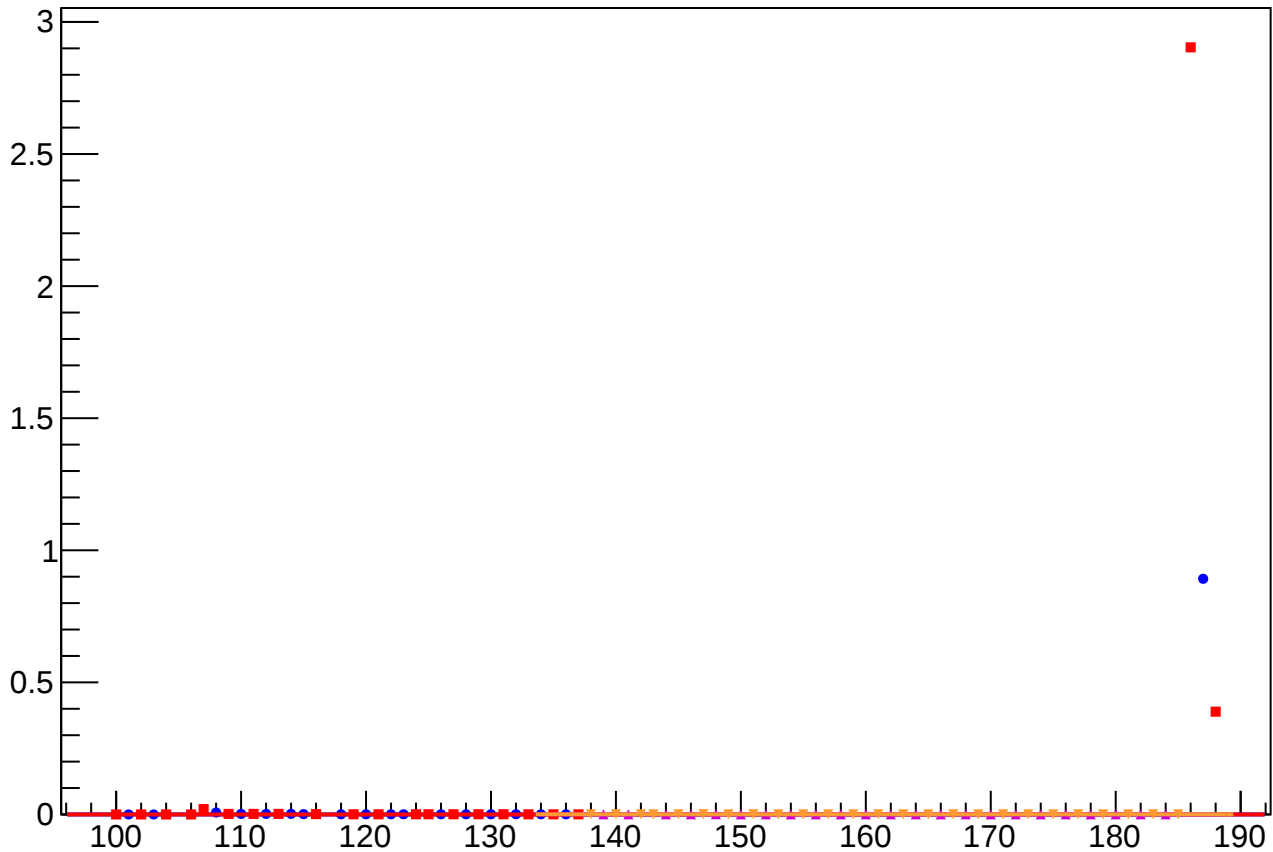
All: 0.000+/-0.000 χ^2/NDF : 76326944.4/86

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5585314299449.2/17	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 : 473936357419983.8
Right Out: 0.446+/-0.000	χ^2/NDF : 405421798287313.0/20	In: 0.647+/-0.000	χ^2/NDF : 33845305670779.5/40
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420616401964377.4/40
		All: 0.537+/-0.000	χ^2/NDF : 51598641214952.6

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10117423.7/17

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11830817.5/20

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

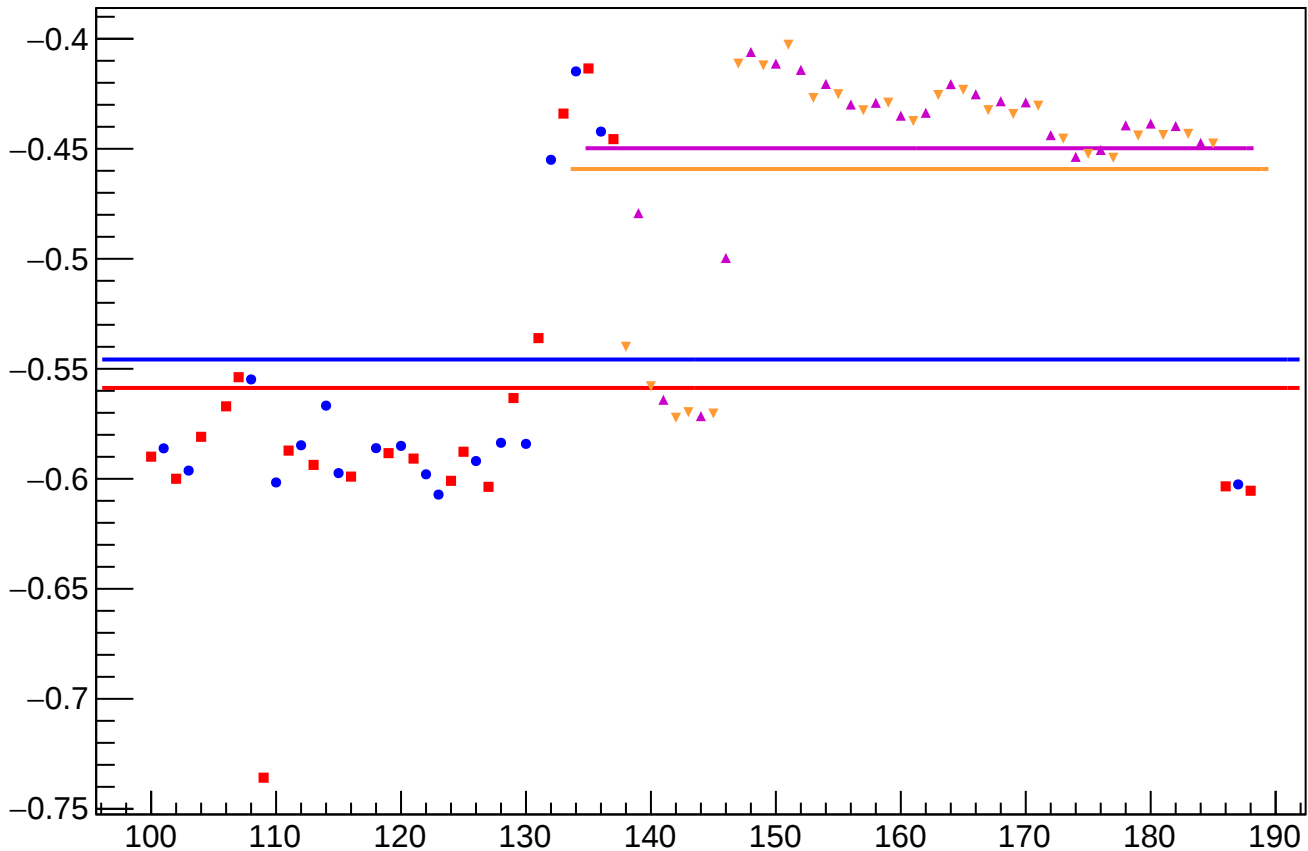
Right: 0.000+/-0.000 χ^2/NDF : 21948247.4/38

In: 0.000+/-0.000 χ^2/NDF : 41096460.7/40

Out: 0.000+/-0.000 χ^2/NDF : 44545322.1/45

All: 0.000+/-0.000 χ^2/NDF : 85642180.6/86

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.546 $\pm$ 0.000 χ^2/NDF : 46557174.2/17

Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.559 $\pm$ 0.000 χ^2/NDF : 64887822.9/20

Left In: -0.450 $\pm$ 0.000 χ^2/NDF : 76151485.7/22

Left: -0.455 $\pm$ 0.000 χ^2/NDF : 191688333.2/47

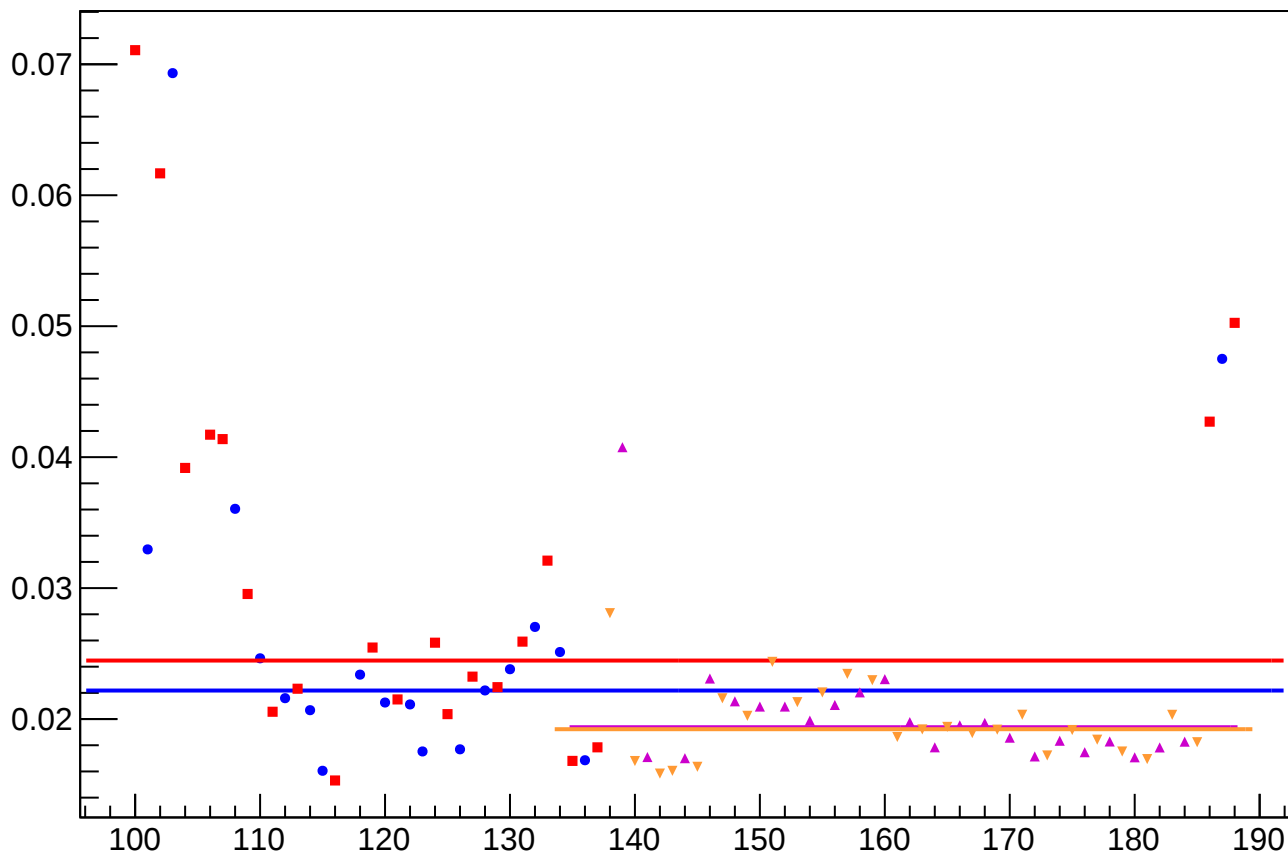
Right: -0.552 $\pm$ 0.000 χ^2/NDF : 112314536.2/38

In: -0.471 $\pm$ 0.000 χ^2/NDF : 197967869.7/40

Out: -0.480 $\pm$ 0.000 χ^2/NDF : 260218432.1/45

All: -0.475 $\pm$ 0.000 χ^2/NDF : 460109359.7/86

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 1039270.0/17

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.024+/-0.000 χ^2/NDF : 1753712.6/20

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

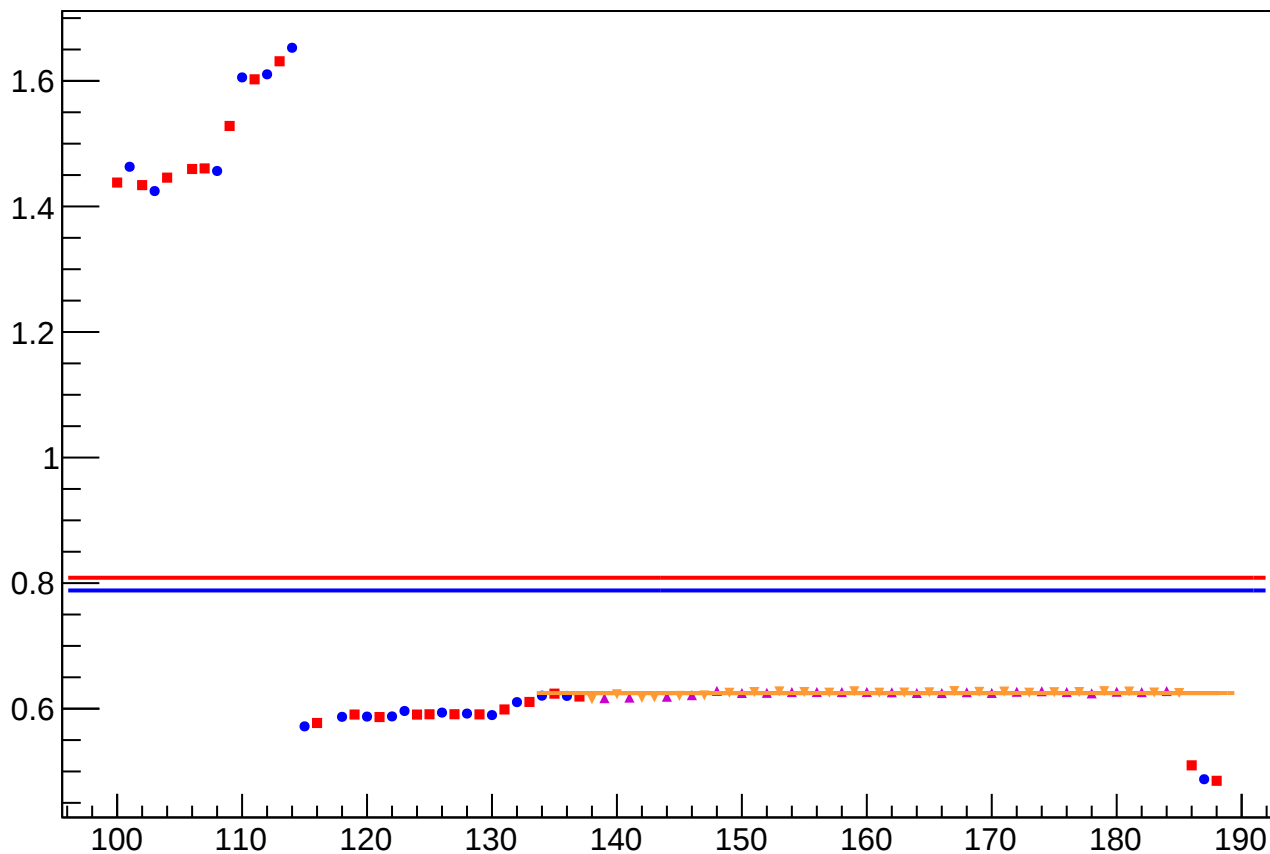
Right: 0.023+/-0.000 χ^2/NDF : 2847490.0/38

In: 0.020+/-0.000 χ^2/NDF : 1823549.2/40

Out: 0.020+/-0.000 χ^2/NDF : 2707512.0/45

All: 0.020+/-0.000 χ^2/NDF : 4535777.3/86

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.788 $\pm$ 0.000 χ^2 /NDF: 3577613437.4/17

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.809 $\pm$ 0.000 χ^2 /NDF: 4400526987.8/20

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

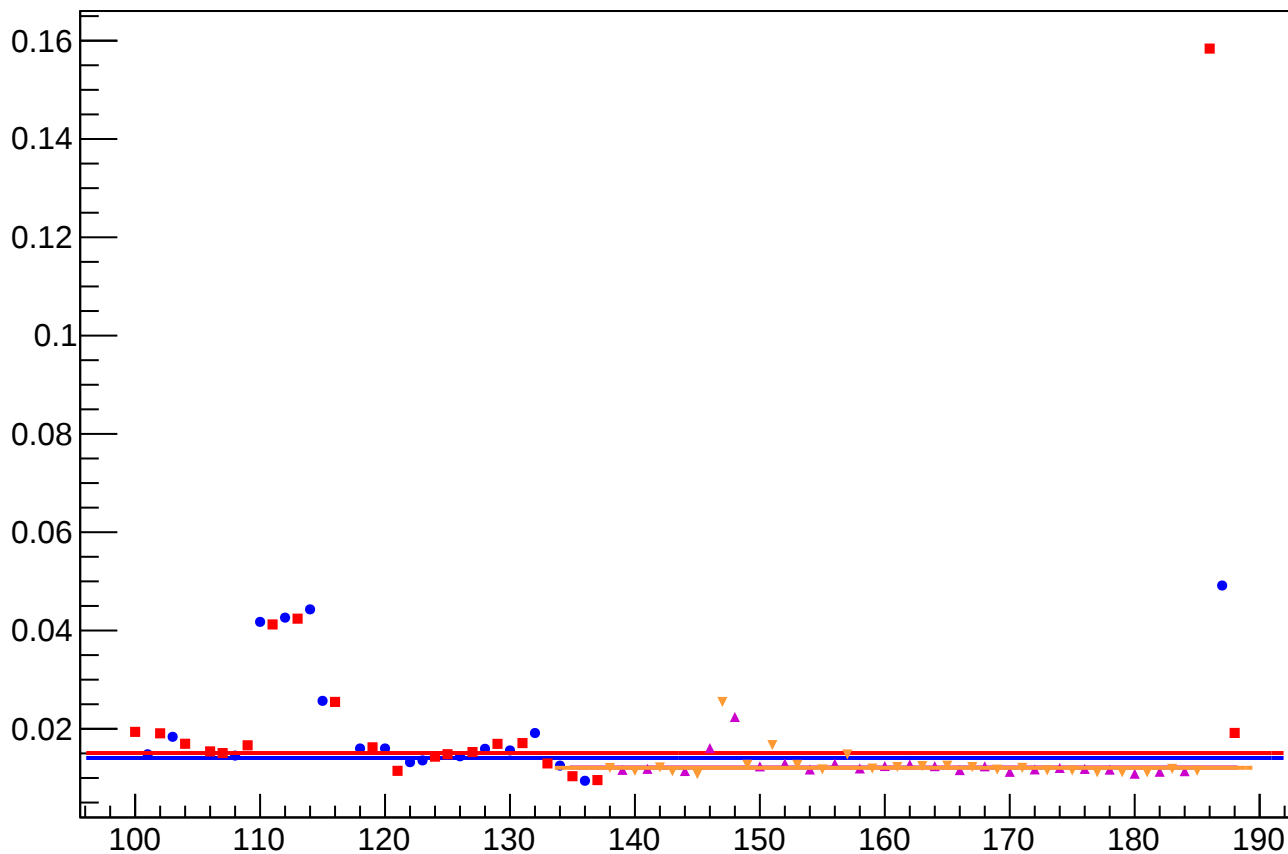
Right: 0.799 $\pm$ 0.000 χ^2 /NDF: 7984170317.5/38

In: 0.658 $\pm$ 0.000 χ^2 /NDF:4190792048.8/40

Out: 0.661 $\pm$ 0.000 χ^2 /NDF:5214616449.9/45

All: 0.660 $\pm$ 0.000 χ^2 /NDF: 9406447396.1/86

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1538609.1/17

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1923746.5/20

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488249.4/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146144.5/47

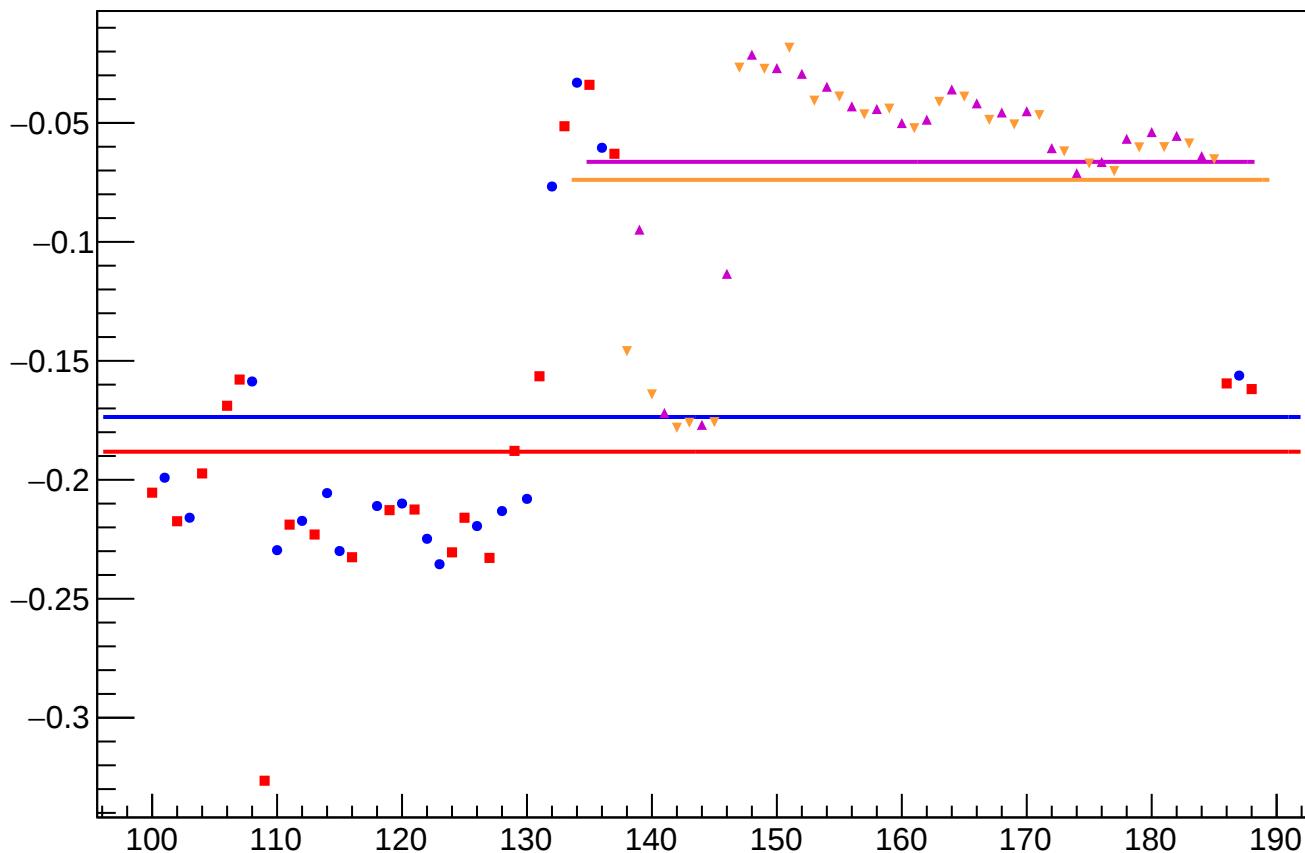
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3492134.3/38

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2198059.9/40

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3015757.1/45

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5216950.4/86

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174+/-0.000 χ^2/NDF : 66859318.9/17

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.188+/-0.000 χ^2/NDF : 81836597.0/20

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

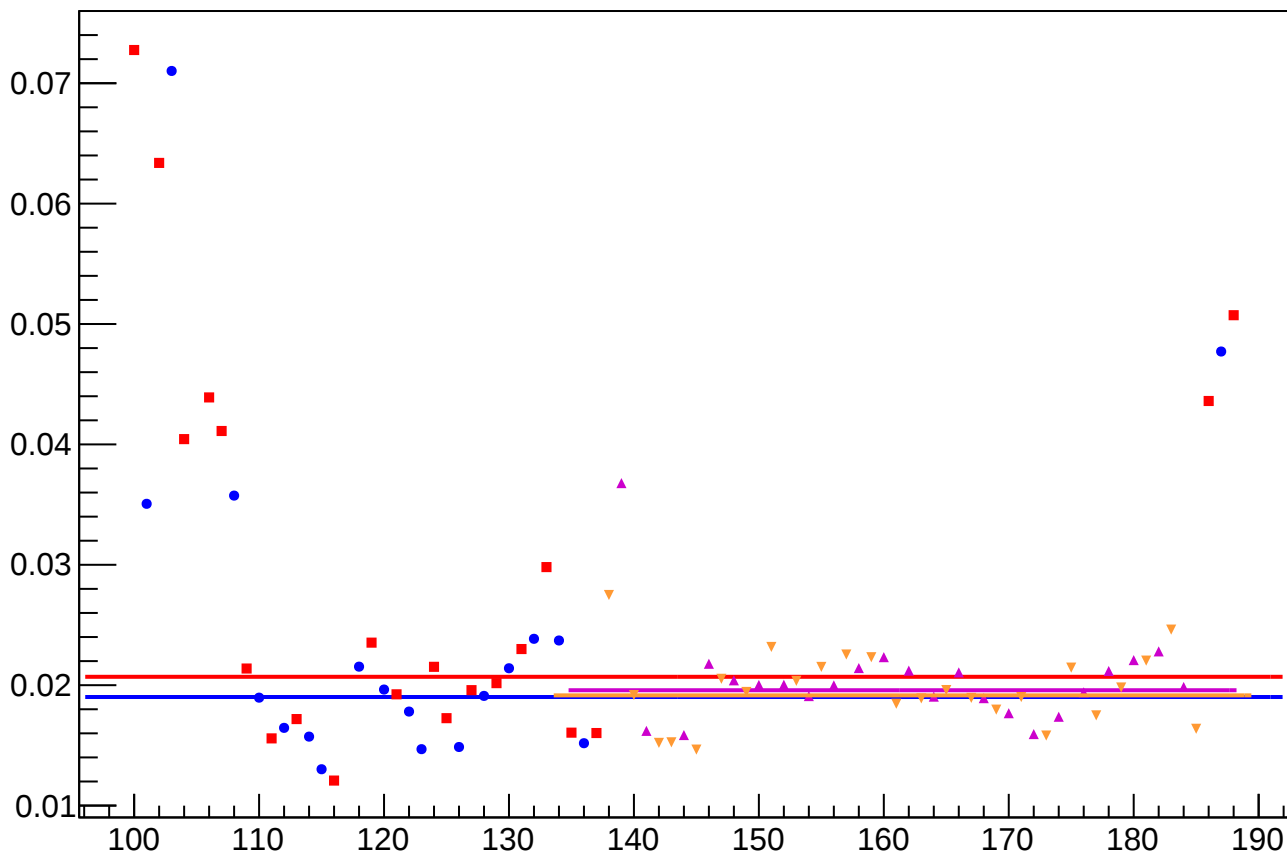
Right: -0.181+/-0.000 χ^2/NDF : 150176221.6/38

In: -0.095+/-0.000 χ^2/NDF : 259693458.5/40

Out: -0.103+/-0.000 χ^2/NDF : 325524441.6/45

All: -0.099+/-0.000 χ^2/NDF : 586663338.0/86

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1315396.6/17

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.021+/-0.000 χ^2/NDF : 2271753.0/20

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

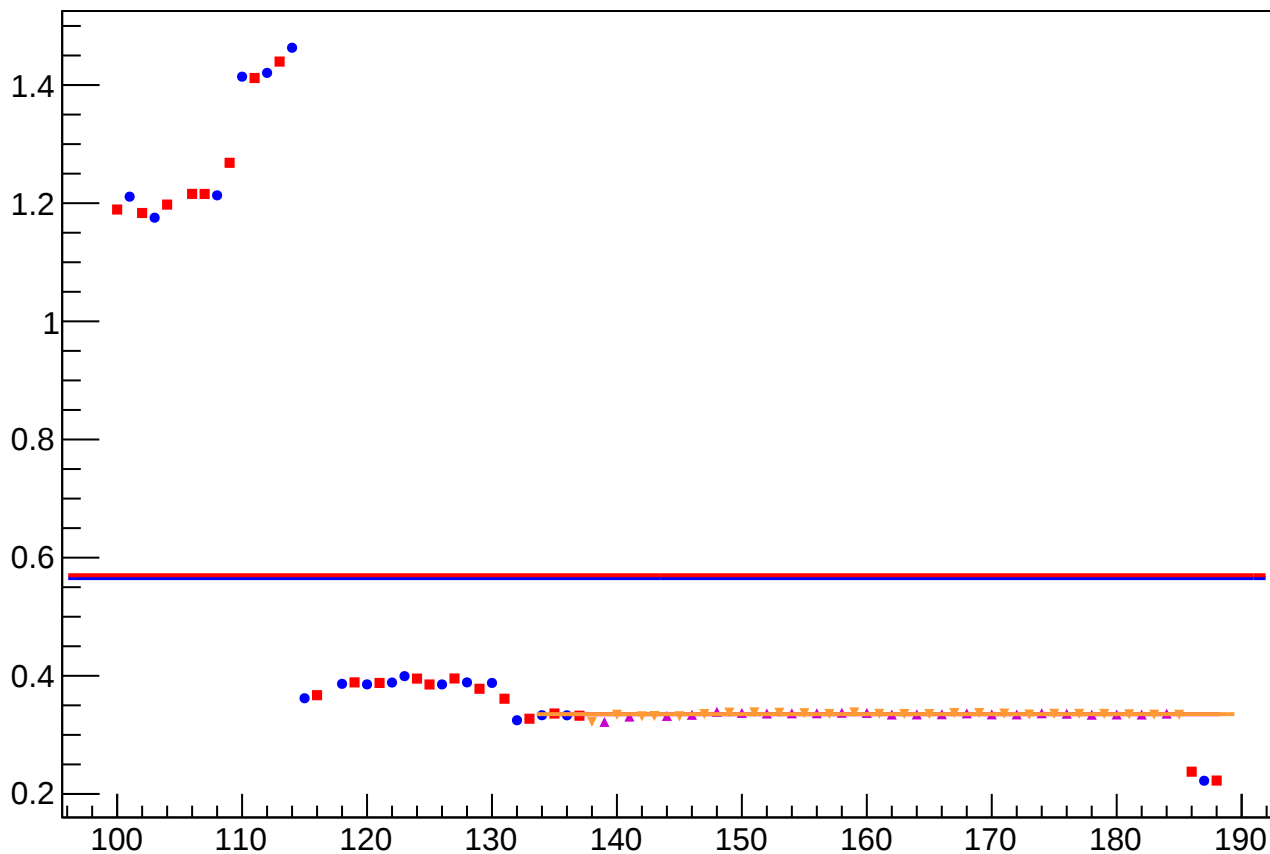
Right: 0.020+/-0.000 χ^2/NDF : 3626323.8/38

In: 0.019+/-0.000 χ^2/NDF : 1973135.1/40

Out: 0.020+/-0.000 χ^2/NDF : 2962226.0/45

All: 0.019+/-0.000 χ^2/NDF : 4936072.9/86

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.565+/-0.000 χ^2/NDF : 5041212176.7/17

Left Out: 0.335+/-0.000 χ^2/NDF : 1153956.7/24

Right Out: 0.570+/-0.000 χ^2/NDF : 6032565354.5/20

Left In: 0.335+/-0.000 χ^2/NDF : 1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

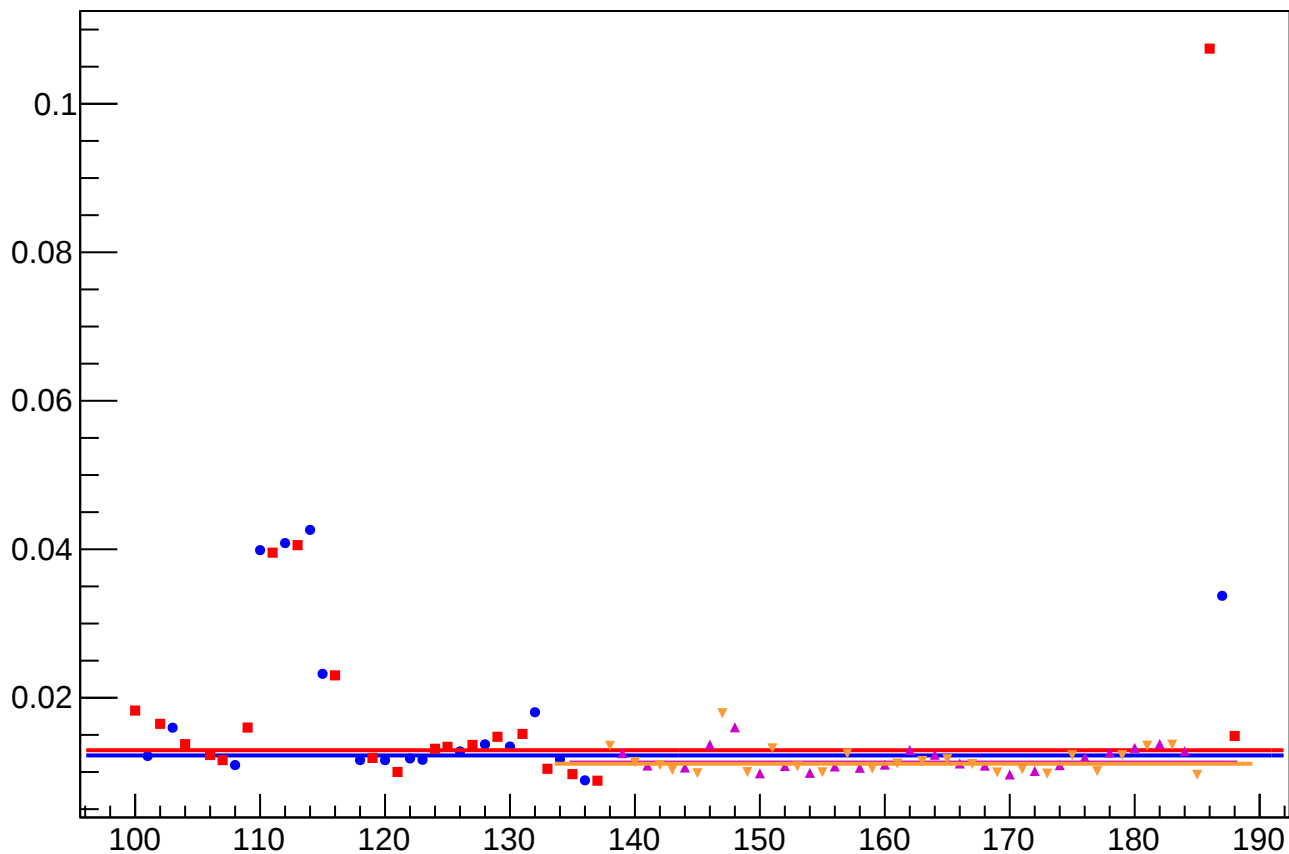
Right: 0.568+/-0.000 χ^2/NDF : 11074240260.2/38

In: 0.387+/-0.000 χ^2/NDF : 6601486148.3/40

Out: 0.387+/-0.000 χ^2/NDF : 7773580303.0/45

All: 0.387+/-0.000 χ^2/NDF : 14375094184.2/80

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1417550.7/17

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:608235.7/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1850084.1/20

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

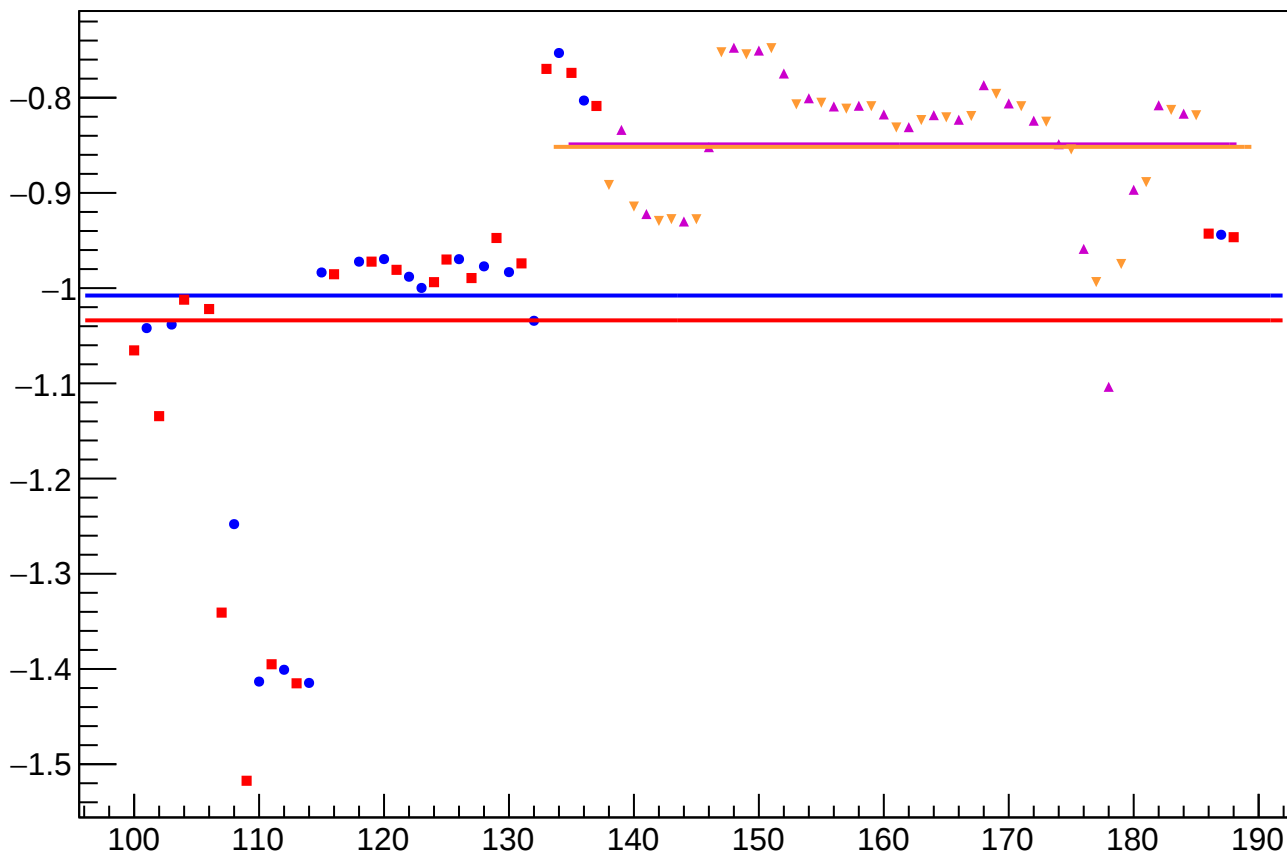
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3286977.8/38

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1973813.8/40

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2666817.1/45

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4640796.4/86

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.008 $\pm$ 0.000 χ^2/NDF : 393366862.4/17

Left Out: -0.852 $\pm$ 0.000 χ^2/NDF :189276591.7/24

Right Out: -1.034 $\pm$ 0.000 χ^2/NDF : 539066325.9/20

Left In: -0.849 $\pm$ 0.000 χ^2/NDF :256438306.8/22

Left: -0.850 $\pm$ 0.000 χ^2/NDF : 445849768.4/47

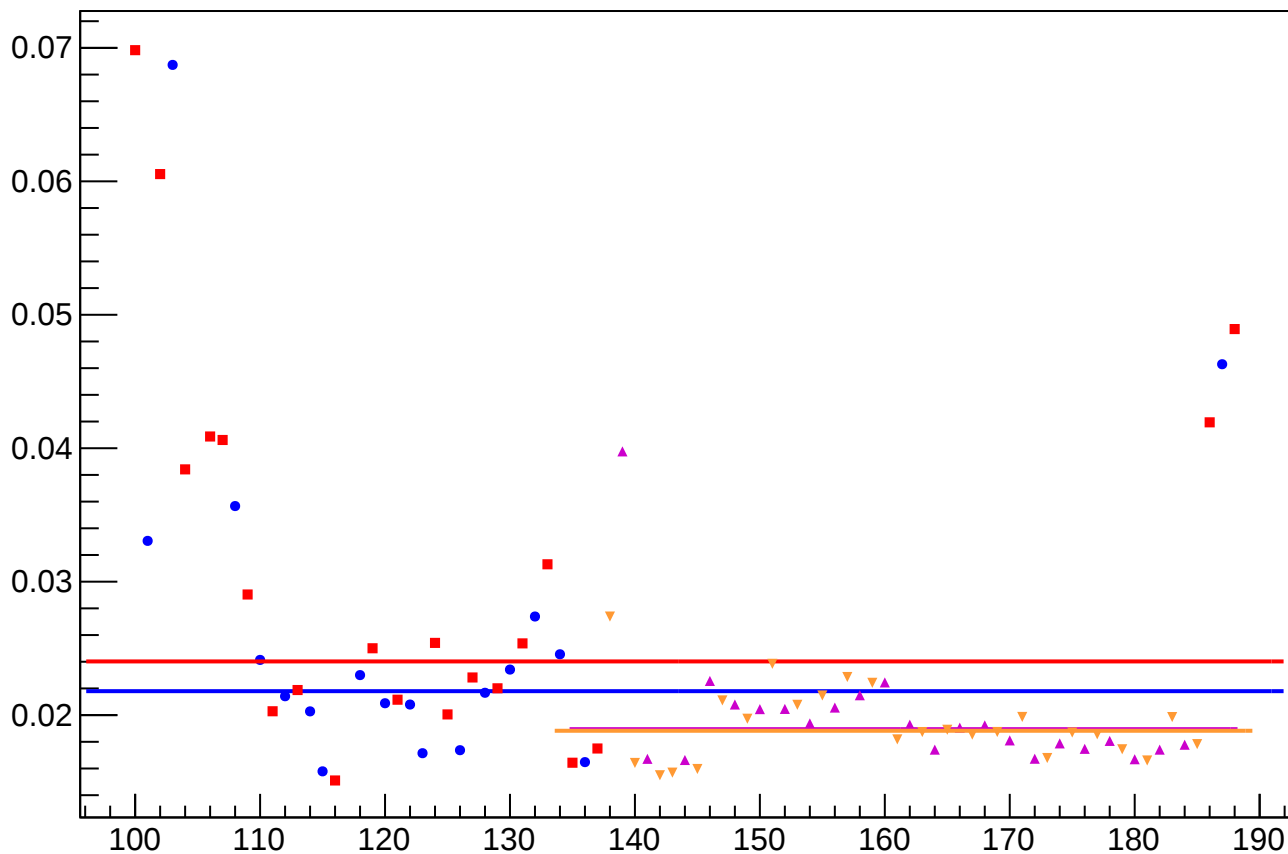
Right: -1.021 $\pm$ 0.000 χ^2/NDF : 936091003.4/38

In: -0.883 $\pm$ 0.000 χ^2/NDF :862940885.7/40

Out: -0.889 $\pm$ 0.000 χ^2/NDF :1011876367.4/45

All: -0.886 $\pm$ 0.000 χ^2/NDF : 1875558165.6/8

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.000 χ^2 /NDF: 1063229.4/17

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490084.5/24

Right Out: 0.024 $\pm$ 0.000 χ^2 /NDF: 1742897.4/20

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

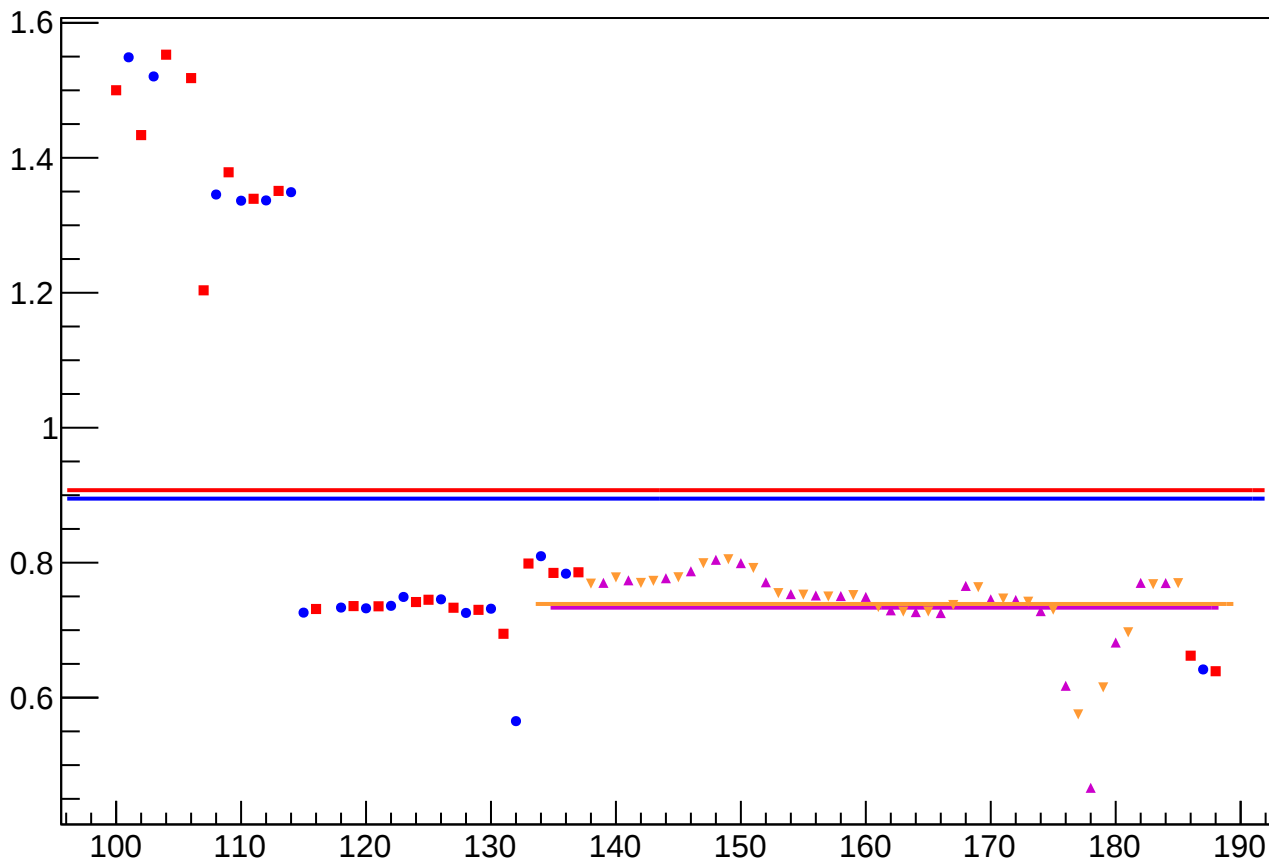
Right: 0.023 $\pm$ 0.000 χ^2 /NDF: 2859541.2/38

In: 0.020 $\pm$ 0.000 χ^2 /NDF:1845283.3/40

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:2694047.7/45

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 4544608.2/86

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.895 $\pm$ 0.000 χ^2 /NDF: 2396726627.2/17

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF: 333086309.0/24

Right Out: 0.907 $\pm$ 0.000 χ^2 /NDF: 2597800780.3/20

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF: 570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 905100069.4/47

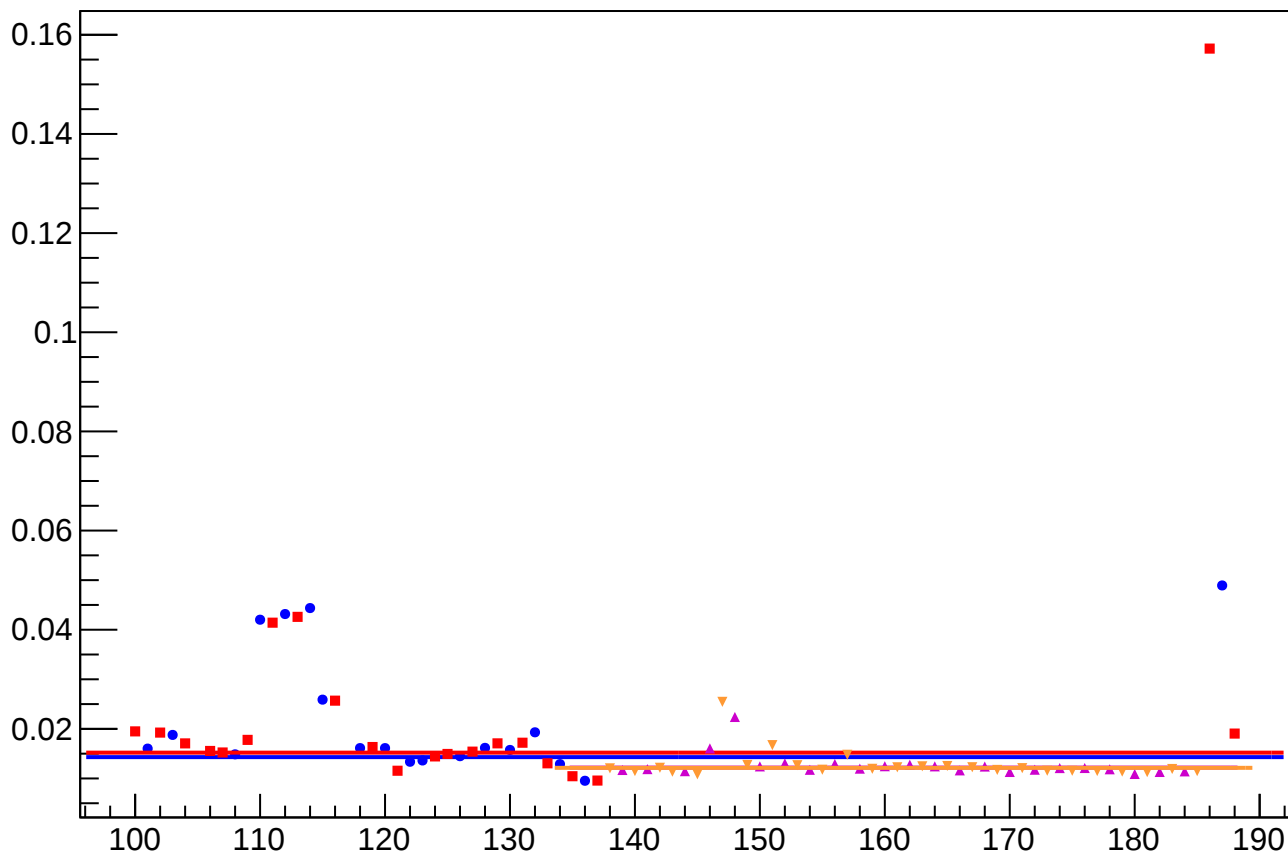
Right: 0.901 $\pm$ 0.000 χ^2 /NDF: 4996761603.7/38

In: 0.765 $\pm$ 0.000 χ^2 /NDF: 3545720636.5/40

Out: 0.772 $\pm$ 0.000 χ^2 /NDF: 3603077062.0/45

All: 0.769 $\pm$ 0.000 χ^2 /NDF: 7152467767.8/86

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1546470.0/17

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:638211.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 1923619.4/20

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:481639.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1120132.0/47

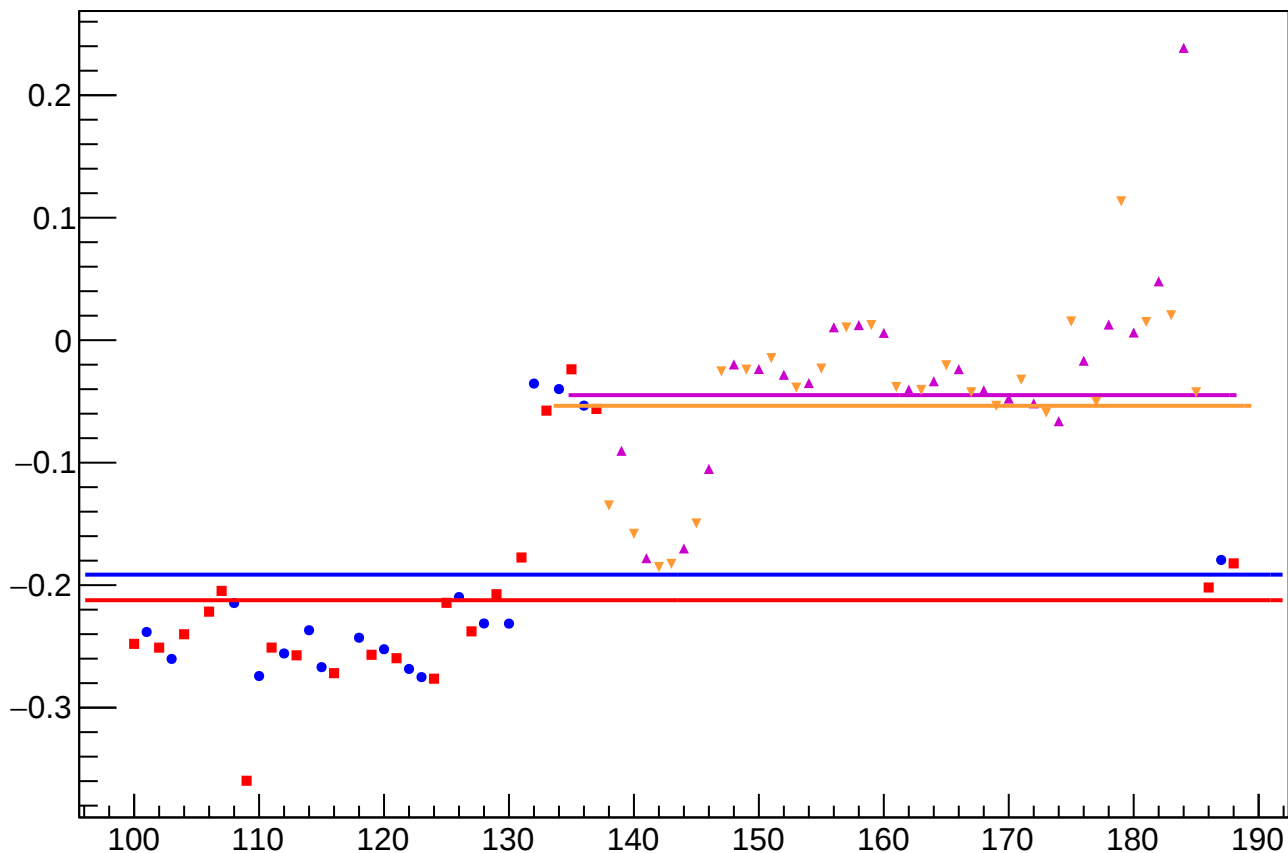
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3493342.9/38

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2225928.9/40

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3006021.3/45

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5234878.9/86

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.191 ± 0.000 $\chi^2/\text{NDF}: 105965882.8/17$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167879648.0/24$

Right Out: -0.212 ± 0.000 $\chi^2/\text{NDF}: 109927224.9/20$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

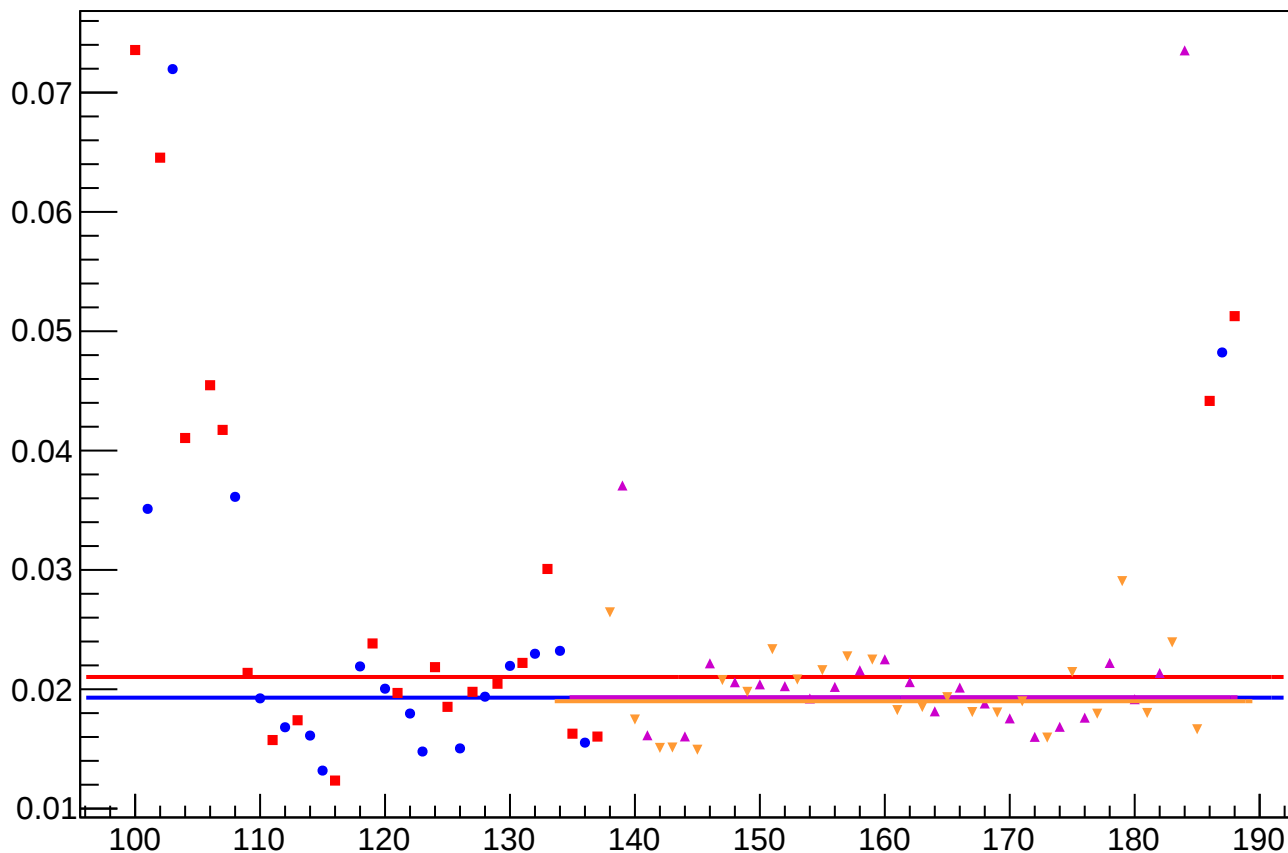
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 218834011.3/38$

In: -0.084 ± 0.000 $\chi^2/\text{NDF}: 446420741.8/40$

Out: -0.093 ± 0.000 $\chi^2/\text{NDF}: 532499899.4/45$

All: -0.089 ± 0.000 $\chi^2/\text{NDF}: 981174220.6/86$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1285850.9/17

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 2257191.5/20

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

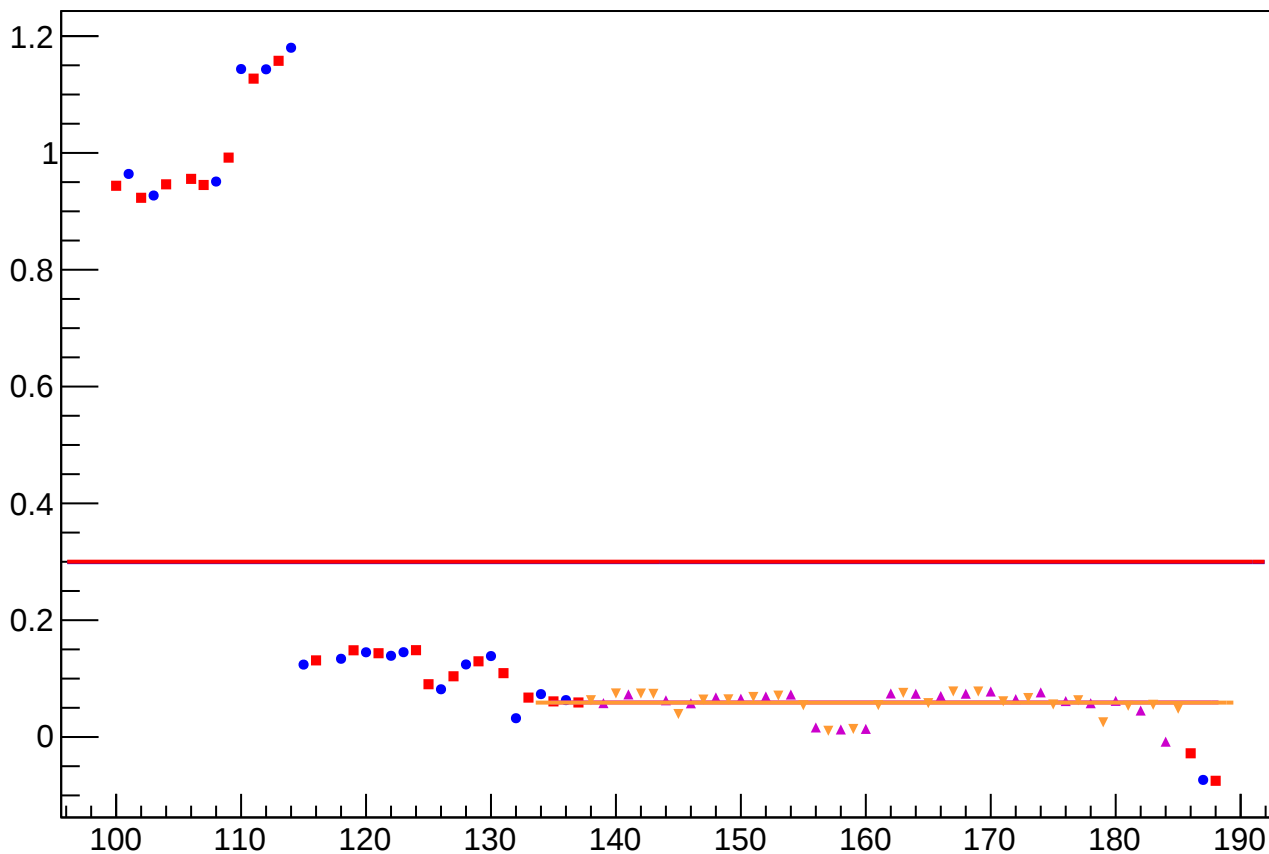
Right: 0.020+/-0.000 χ^2/NDF : 3583537.7/38

In: 0.019+/-0.000 χ^2/NDF : 2178685.6/40

Out: 0.020+/-0.000 χ^2/NDF : 3039896.4/45

All: 0.019+/-0.000 χ^2/NDF : 5220310.9/86

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.299+/-0.000

χ^2/NDF : 5187571356.7/17

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

Right: 0.300+/-0.000 χ^2/NDF : 11274811284.8/38

Left Out: 0.059+/-0.000

χ^2/NDF : 46902918.4/24

In: 0.112+/-0.000 χ^2/NDF : 6978191247.4/40

Right Out: 0.300+/-0.000 χ^2/NDF : 6087227838.3/20

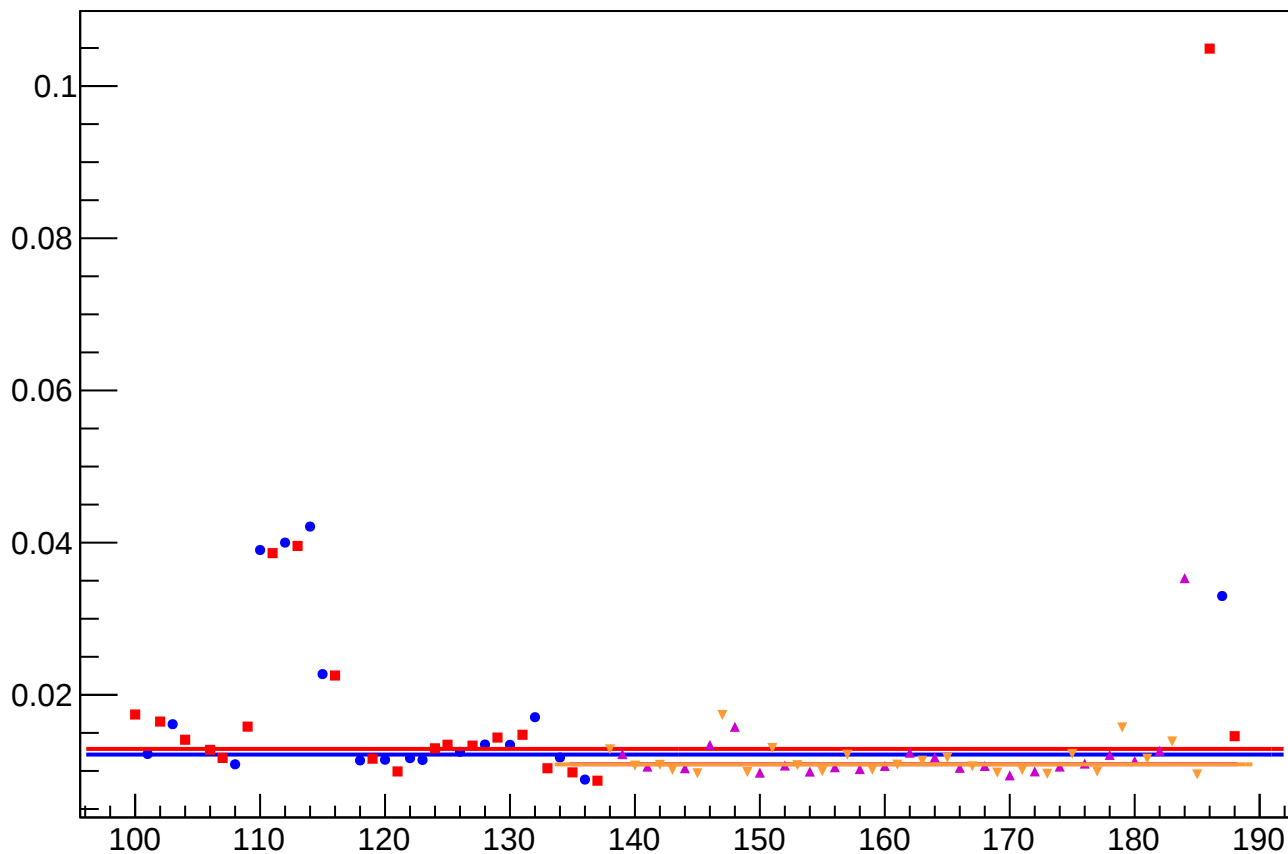
Out: 0.112+/-0.000 χ^2/NDF : 7983420684.7/45

Left In: 0.059+/-0.000

χ^2/NDF : 58640898.5/22

All: 0.112+/-0.000 χ^2/NDF : 14961615447.7/8

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1388242.7/17

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:605519.3/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1809327.0/20

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

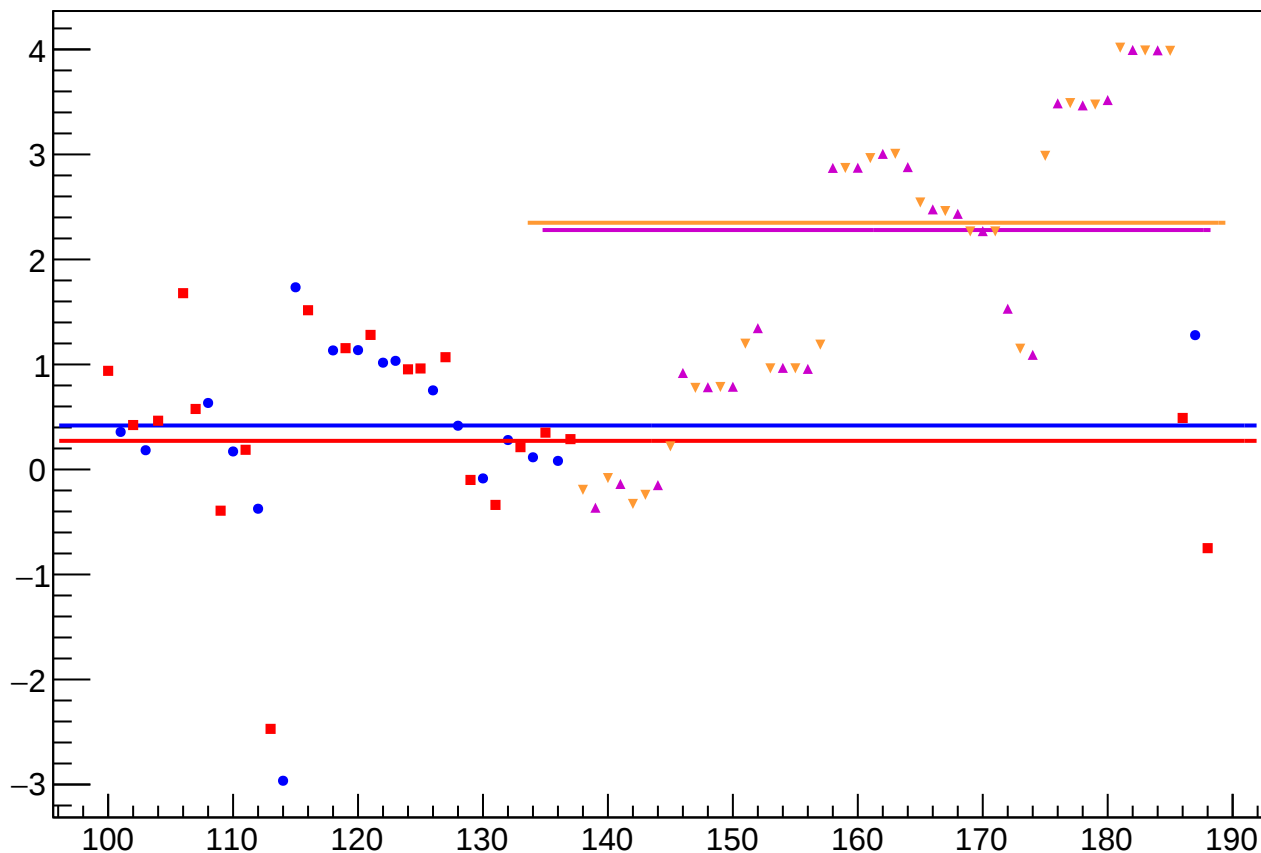
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3219460.0/38

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2013298.7/40

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2676799.5/45

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 4693818.0/86

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.419 $\pm$ 0.000

χ^2/NDF : 293093704.1/17

Left: 2.314 $\pm$ 0.000 χ^2/NDF : 125168787170.9/47

Right: 0.340 $\pm$ 0.000 χ^2/NDF : 1792332601.8/38

Left Out: 2.349 $\pm$ 0.000

χ^2/NDF : 63600066268.3/24

In: 2.218 $\pm$ 0.000 χ^2/NDF : 67798889855.6/40

Right Out: 0.272 $\pm$ 0.000

χ^2/NDF : 1478273499.8/20

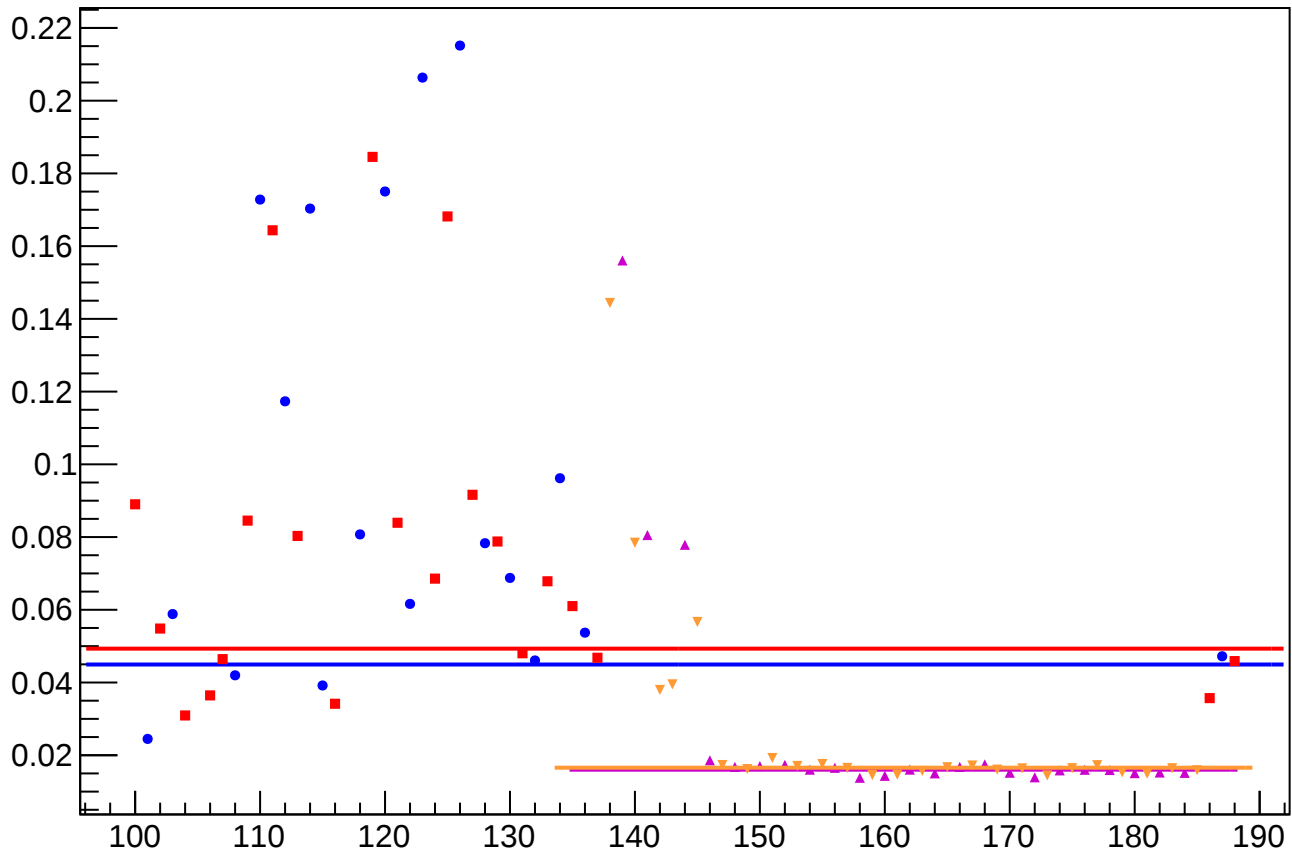
Out: 2.266 $\pm$ 0.000 χ^2/NDF : 73913339309.3/45

Left In: 2.280 $\pm$ 0.000

χ^2/NDF : 61444254541.3/22

All: 2.242 $\pm$ 0.000 χ^2/NDF : 141775500731.6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2773557.7/17

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.049+/-0.000 χ^2/NDF : 2315896.0/20

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

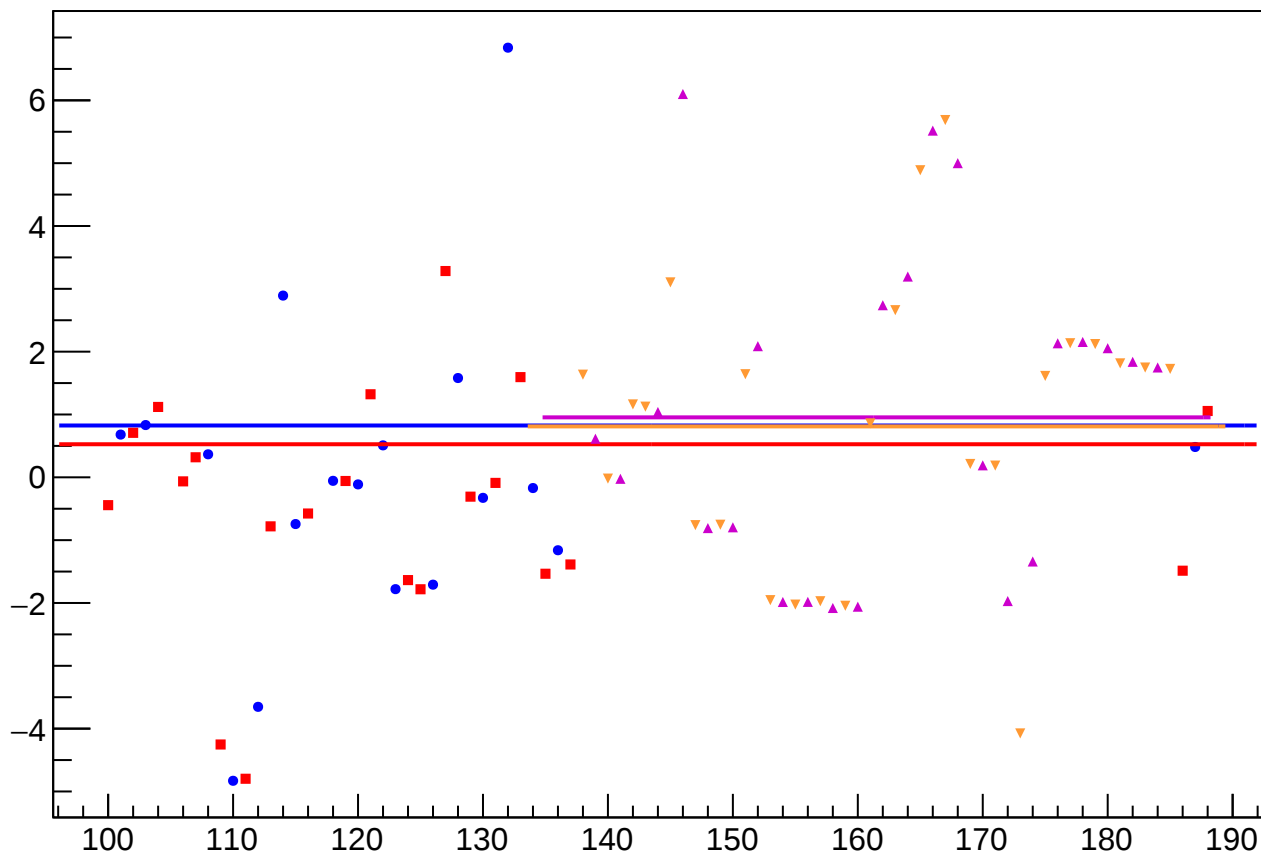
Right: 0.047+/-0.000 χ^2/NDF : 5126715.1/38

In: 0.017+/-0.000 χ^2/NDF : 8164668.1/40

Out: 0.018+/-0.000 χ^2/NDF : 9329801.1/45

All: 0.017+/-0.000 χ^2/NDF : 17536718.3/86

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.825+/-0.000

χ^2/NDF : 10946587763.6/17

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

Right Out: 0.526+/-0.000

χ^2/NDF : 5334529248.4/20

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Right: 0.666+/-0.000

χ^2/NDF : 16468973413.2/38

In: 0.949+/-0.000

χ^2/NDF : 585802769644.7/40

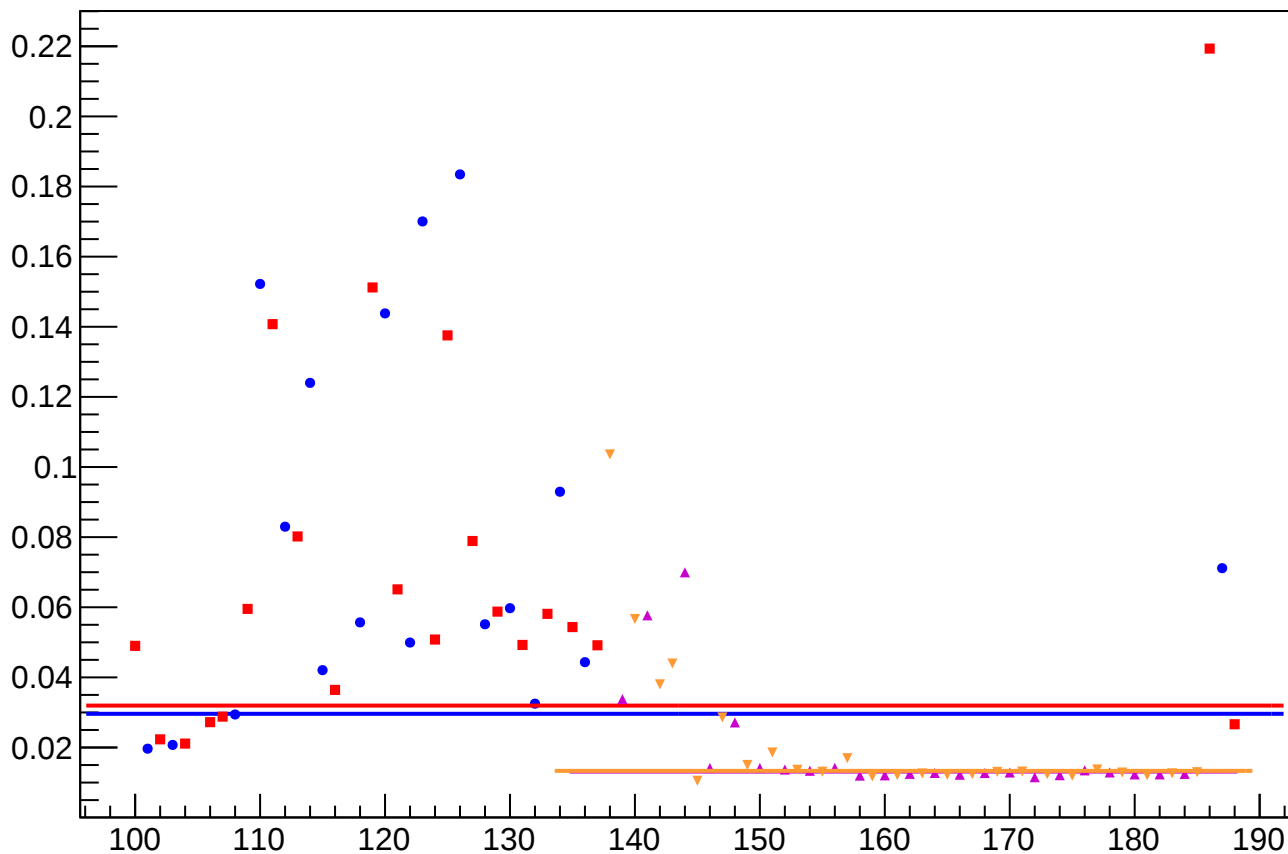
Out: 0.796+/-0.000

χ^2/NDF : 513263385933.9/45

All: 0.872+/-0.000

χ^2/NDF : 1100108346685.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 3062796.5/17

Left Out: 0.013+/-0.000 χ^2/NDF : 2829070.5/24

Right Out: 0.032+/-0.000 χ^2/NDF : 3659003.7/20

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

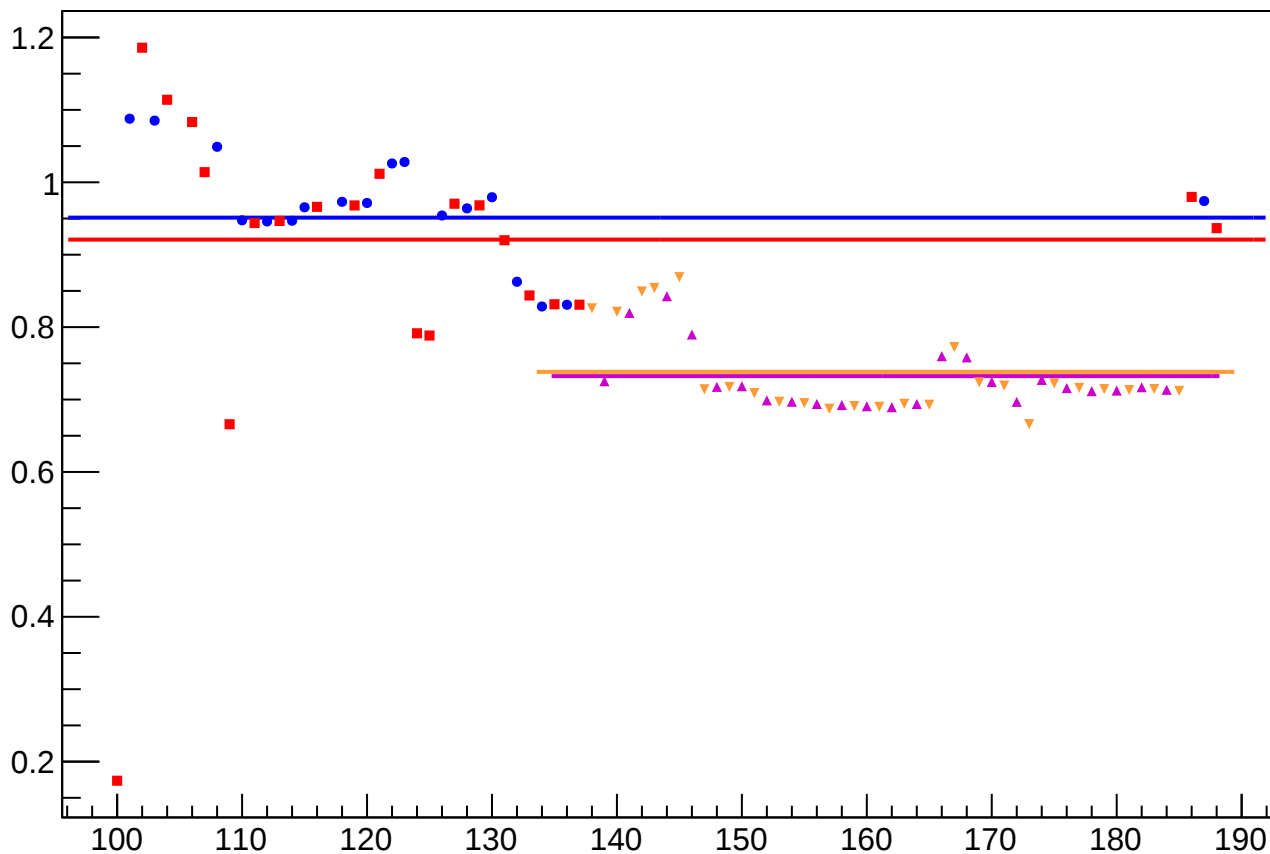
Right: 0.031+/-0.000 χ^2/NDF : 6744940.6/38

In: 0.014+/-0.000 χ^2/NDF : 7085663.5/40

Out: 0.014+/-0.000 χ^2/NDF : 9458695.9/45

All: 0.014+/-0.000 χ^2/NDF : 16559820.1/86

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.951+/-0.000 χ^2/NDF : 174377247.7/17

Left Out: 0.738+/-0.000 χ^2/NDF : 310610047.7/24

Right Out: 0.921+/-0.000 χ^2/NDF : 376939181.6/20

Left In: 0.732+/-0.000 χ^2/NDF : 170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

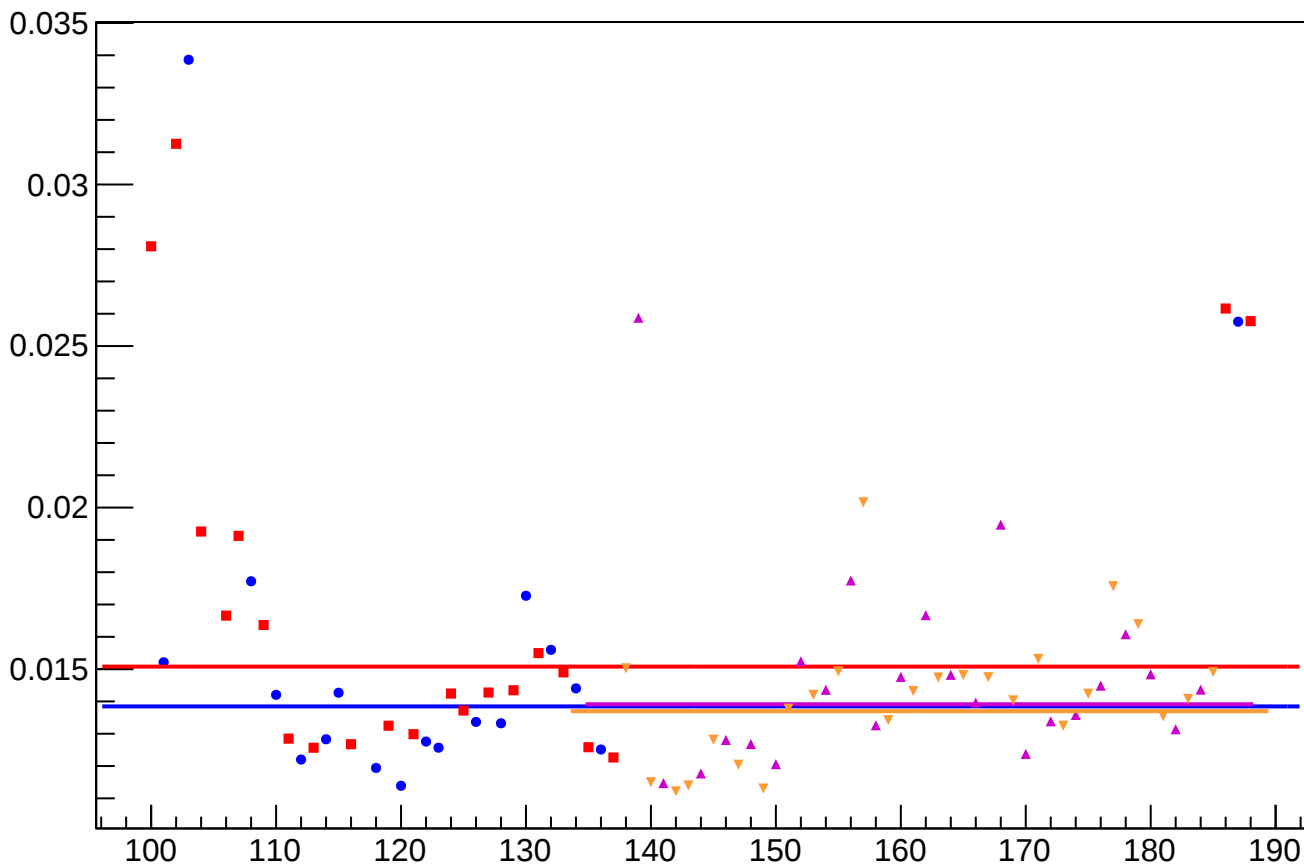
Right: 0.936+/-0.000 χ^2/NDF : 565500268.4/38

In: 0.793+/-0.000 χ^2/NDF : 1404549984.9/40

Out: 0.787+/-0.000 χ^2/NDF : 1449990870.0/45

All: 0.789+/-0.000 χ^2/NDF : 2856620567.2/86

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 600189.8/17

Left Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 530851.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 964113.6/20

Left In: 0.014 $\pm$ 0.000 χ^2 /NDF: 794558.0/22

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 1329255.3/47

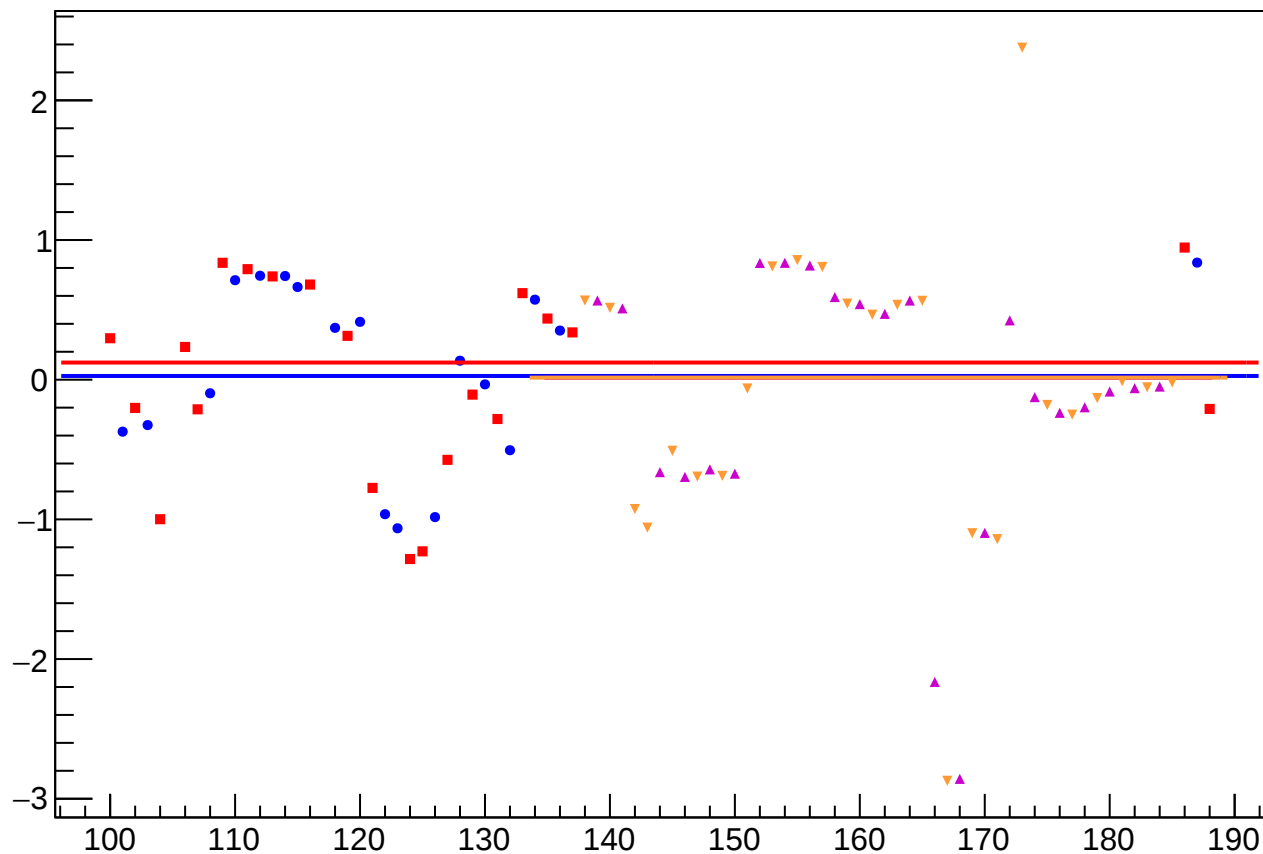
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 1611036.6/38

In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1394946.3/40

Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 1582024.0/45

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 2980205.2/86

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.000 χ^2 /NDF: 6318267125.3/17

Left Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 96087835995.8/24

Right Out: 0.123 $\pm$ 0.000 χ^2 /NDF: 13029322104.7/20

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF: 79445696658.6/22

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 175533691121.4/47

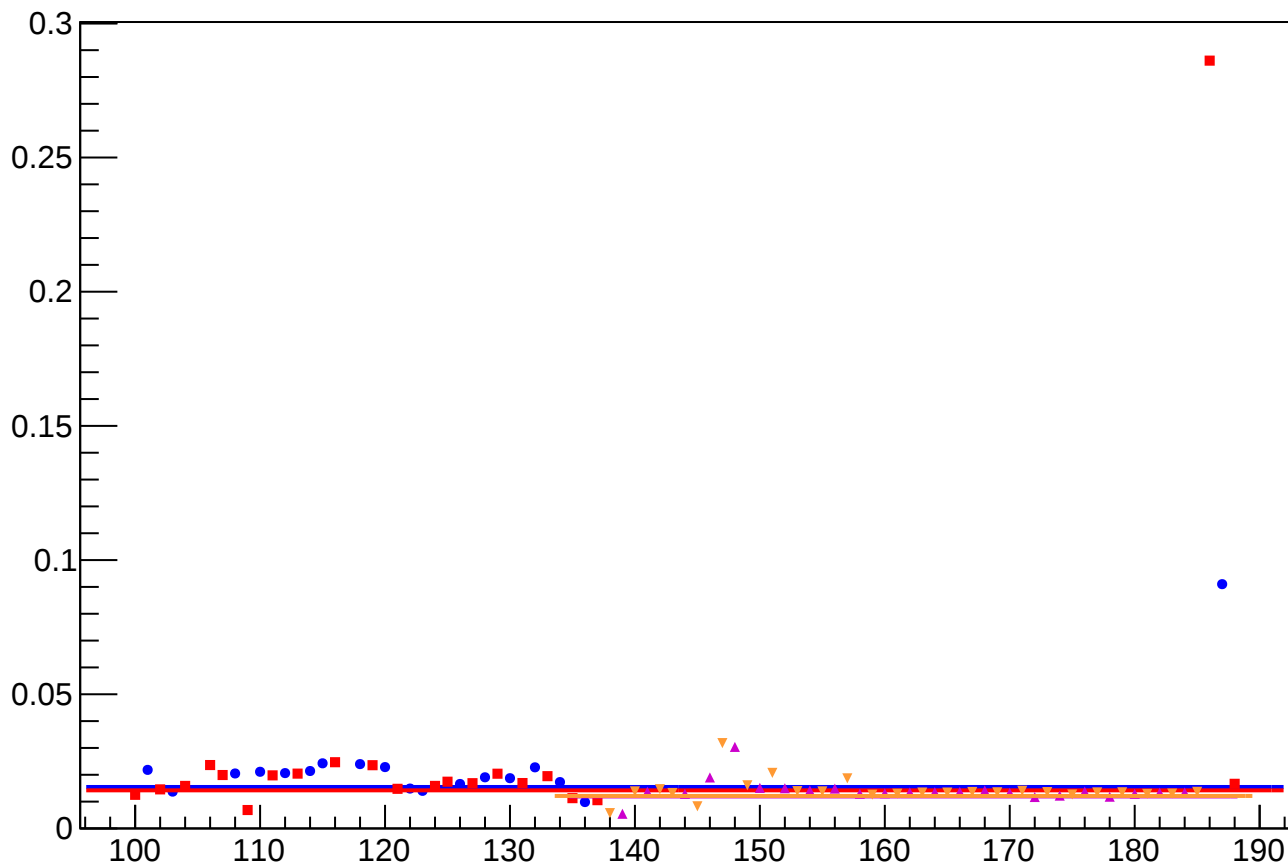
Right: 0.081 $\pm$ 0.000 χ^2 /NDF: 19470393122.9/38

In: 0.015 $\pm$ 0.000 χ^2 /NDF: 85767602345.6/40

Out: 0.038 $\pm$ 0.000 χ^2 /NDF: 109396691378.1/45

All: 0.027 $\pm$ 0.000 χ^2 /NDF: 195199535249.8

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1333743.4/17

Left Out: 0.012+/-0.000 χ^2/NDF : 3107648.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2219539.2/20

Left In: 0.012+/-0.000 χ^2/NDF : 3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

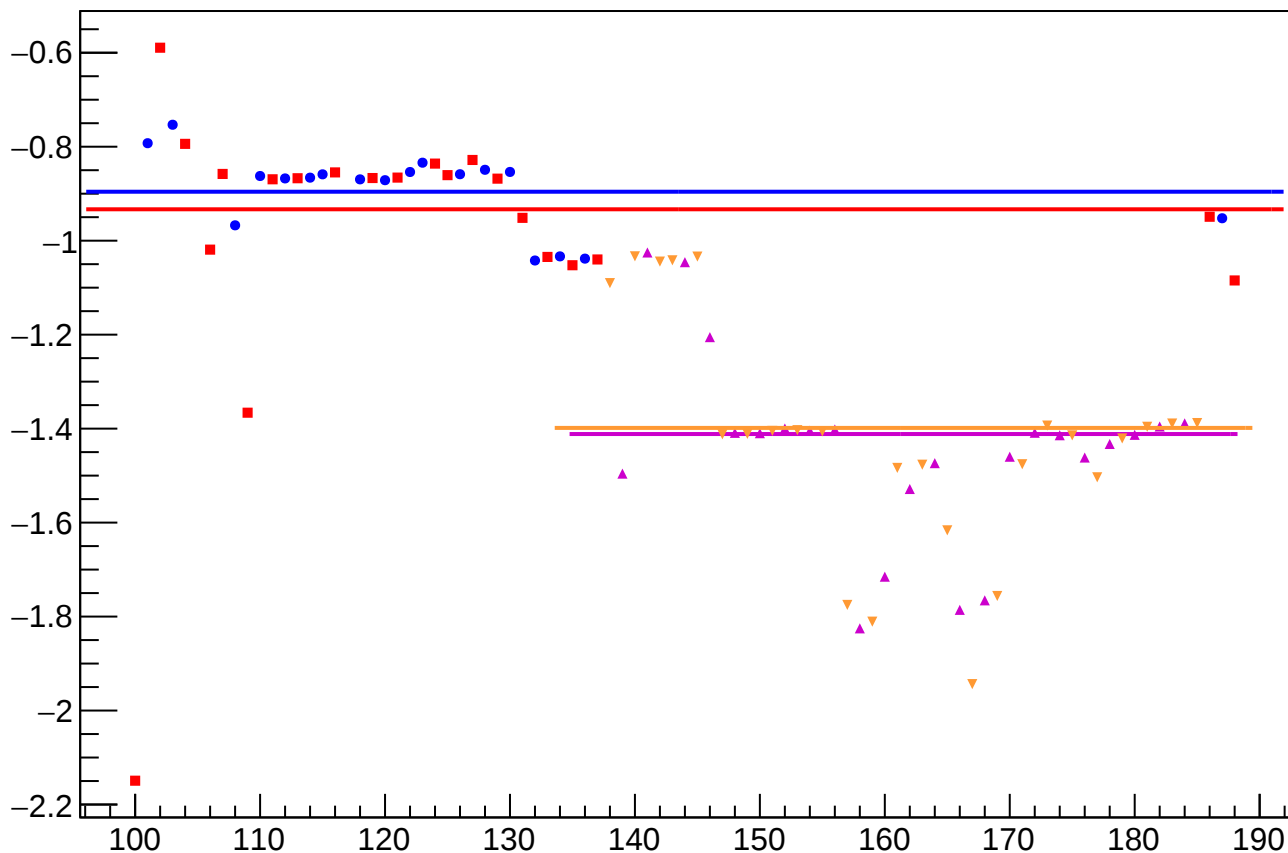
Right: 0.015+/-0.000 χ^2/NDF : 3594986.5/38

In: 0.013+/-0.000 χ^2/NDF : 4919941.6/40

Out: 0.013+/-0.000 χ^2/NDF : 5536242.6/45

All: 0.013+/-0.000 χ^2/NDF : 10456188.7/86

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.896 ± 0.000 $\chi^2/\text{NDF}: 38078075.9/17$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.933 ± 0.000 $\chi^2/\text{NDF}: 135175516.6/20$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

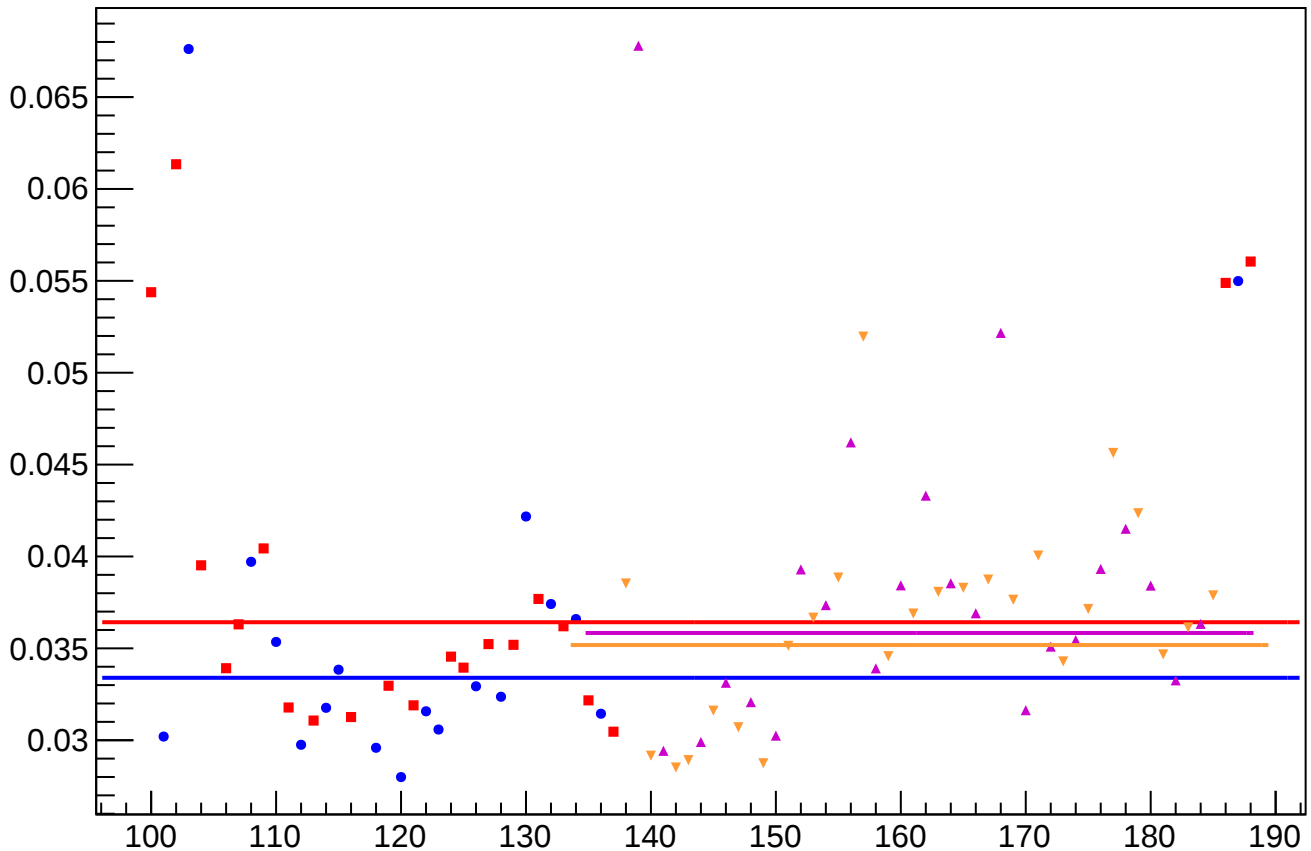
Right: -0.915 ± 0.000 $\chi^2/\text{NDF}: 177005060.9/38$

In: -1.253 ± 0.000 $\chi^2/\text{NDF}: 1528301138.0/40$

Out: -1.261 ± 0.000 $\chi^2/\text{NDF}: 1698479089.6/45$

All: -1.257 ± 0.000 $\chi^2/\text{NDF}: 3227358956.2/8$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 444350.4/17

Left Out: 0.035+/-0.000 χ^2/NDF : 597886.0/24

Right Out: 0.036+/-0.000 χ^2/NDF : 594384.3/20

Left In: 0.036+/-0.000 χ^2/NDF : 890993.5/22

Left: 0.035+/-0.000 χ^2/NDF : 1494255.9/47

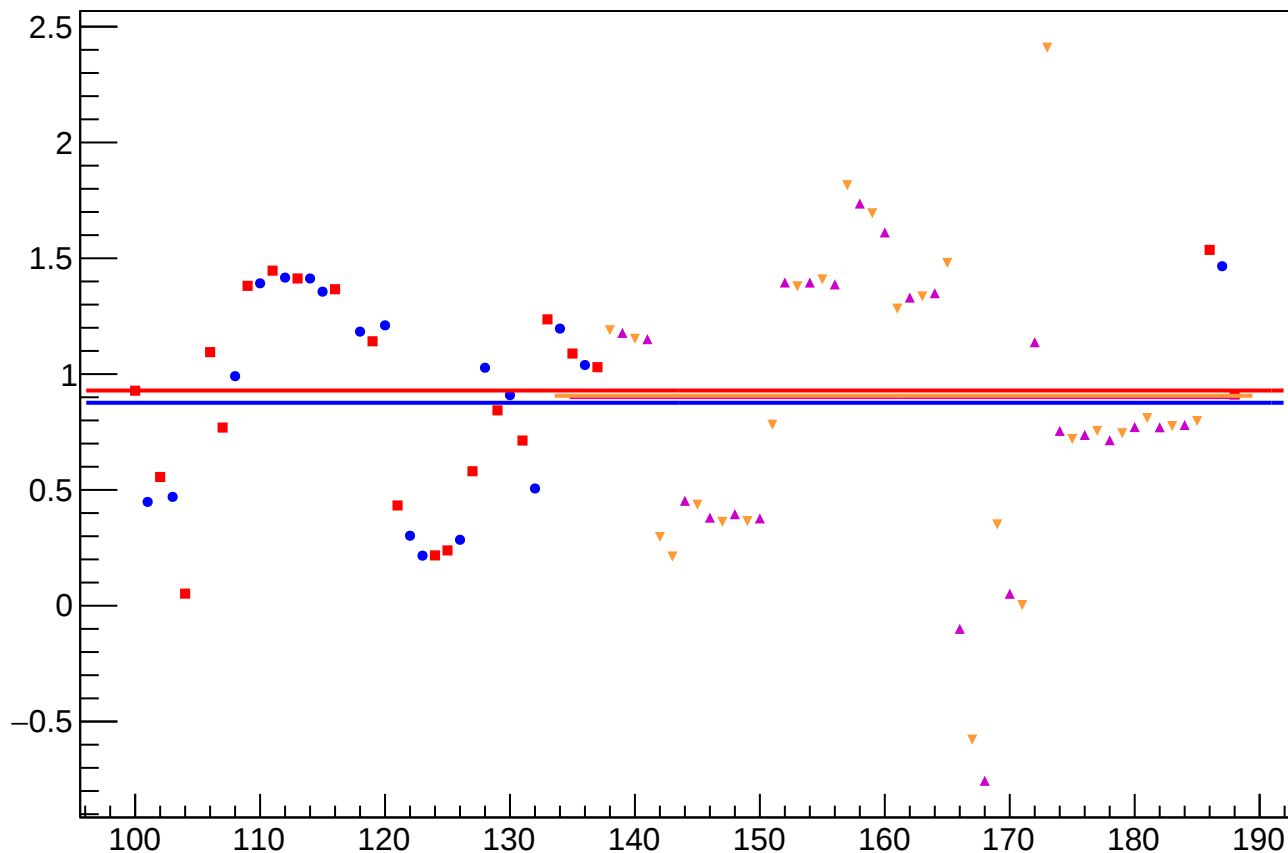
Right: 0.035+/-0.000 χ^2/NDF : 1087802.9/38

In: 0.035+/-0.000 χ^2/NDF : 1379089.9/40

Out: 0.036+/-0.000 χ^2/NDF : 1204075.0/45

All: 0.035+/-0.000 χ^2/NDF : 2586900.3/86

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.876 ± 0.000 χ^2/NDF : 6472564507.3/17

Left Out: 0.906 ± 0.000 χ^2/NDF : 84108410196.2/24

Right Out: 0.929 ± 0.000 χ^2/NDF : 9961005947.5/20

Left In: 0.901 ± 0.000 χ^2/NDF : 66932223067.8/22

Left: 0.904 ± 0.000 χ^2/NDF : 151044220035.9/47

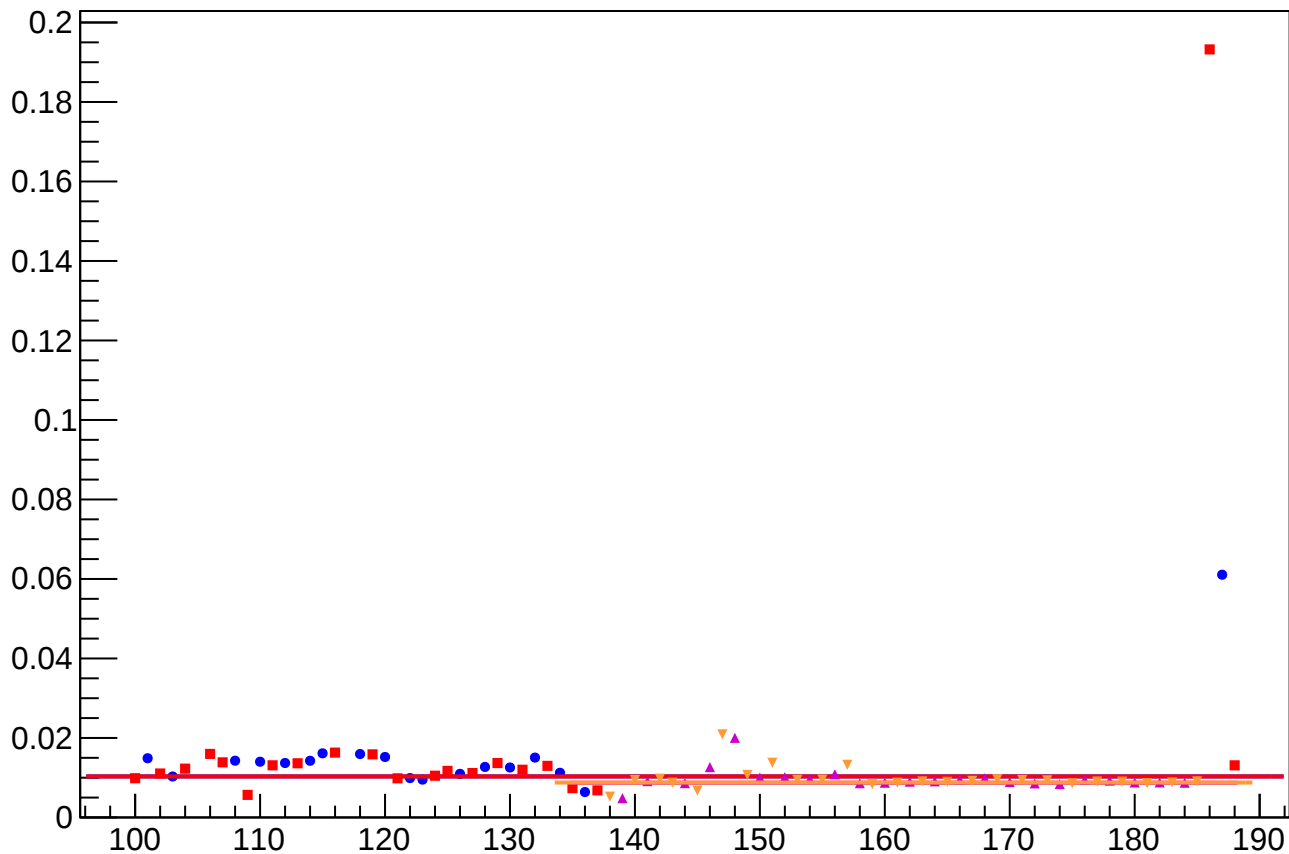
Right: 0.905 ± 0.000 χ^2/NDF : 16512000704.8/38

In: 0.896 ± 0.000 χ^2/NDF : 73429577636.2/40

Out: 0.911 ± 0.000 χ^2/NDF : 94093874604.6/45

All: 0.904 ± 0.000 χ^2/NDF : 167556313070.2

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1399787.6/17

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1864161.7/20

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

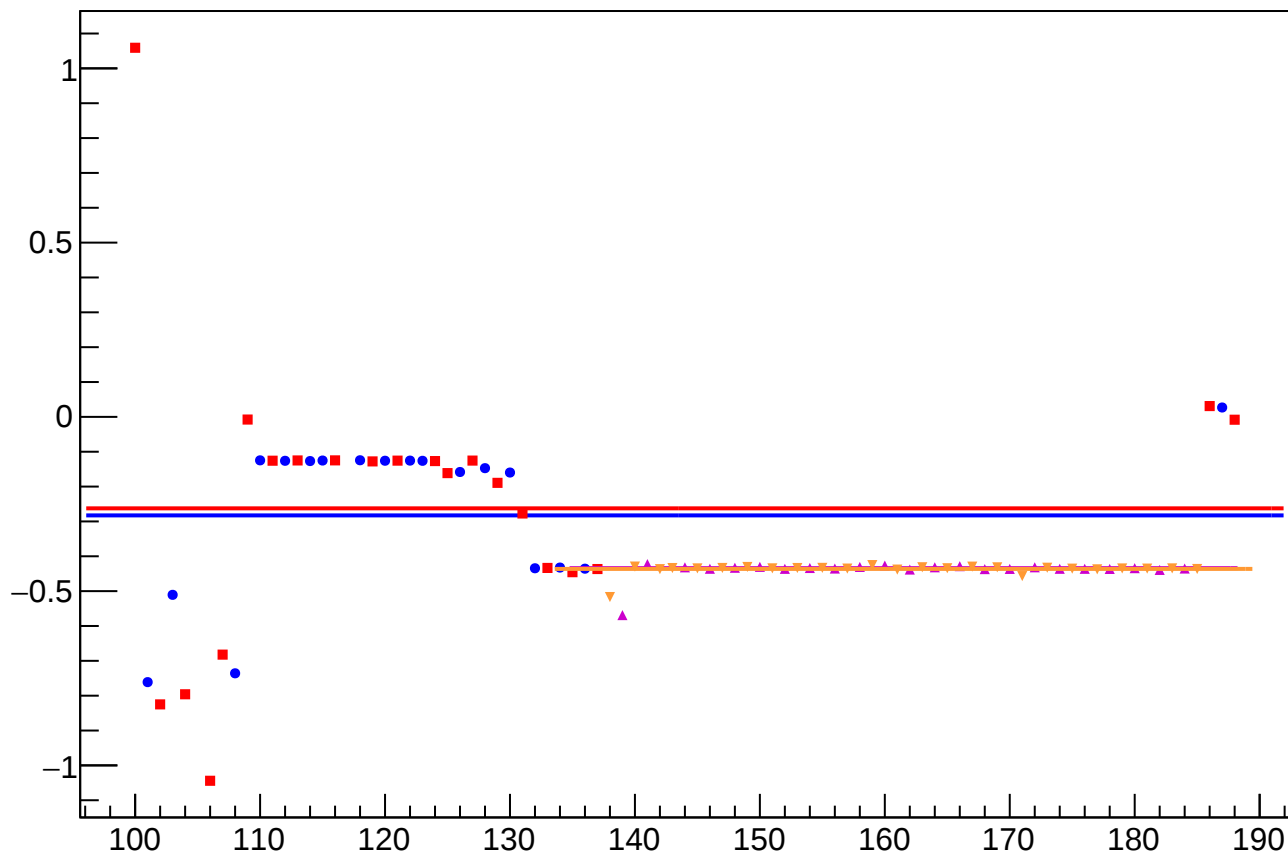
Right: 0.010+/-0.000 χ^2/NDF : 3263949.4/38

In: 0.009+/-0.000 χ^2/NDF : 3279471.9/40

Out: 0.009+/-0.000 χ^2/NDF : 3786484.9/45

All: 0.009+/-0.000 χ^2/NDF : 7067005.9/86

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.283 ± 0.000 $\chi^2/\text{NDF}: 901745820.7/17$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28776503.9/24$

Right Out: -0.262 ± 0.000 $\chi^2/\text{NDF}: 1009149970.4/20$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 20164730.3/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 49321098.5/47$

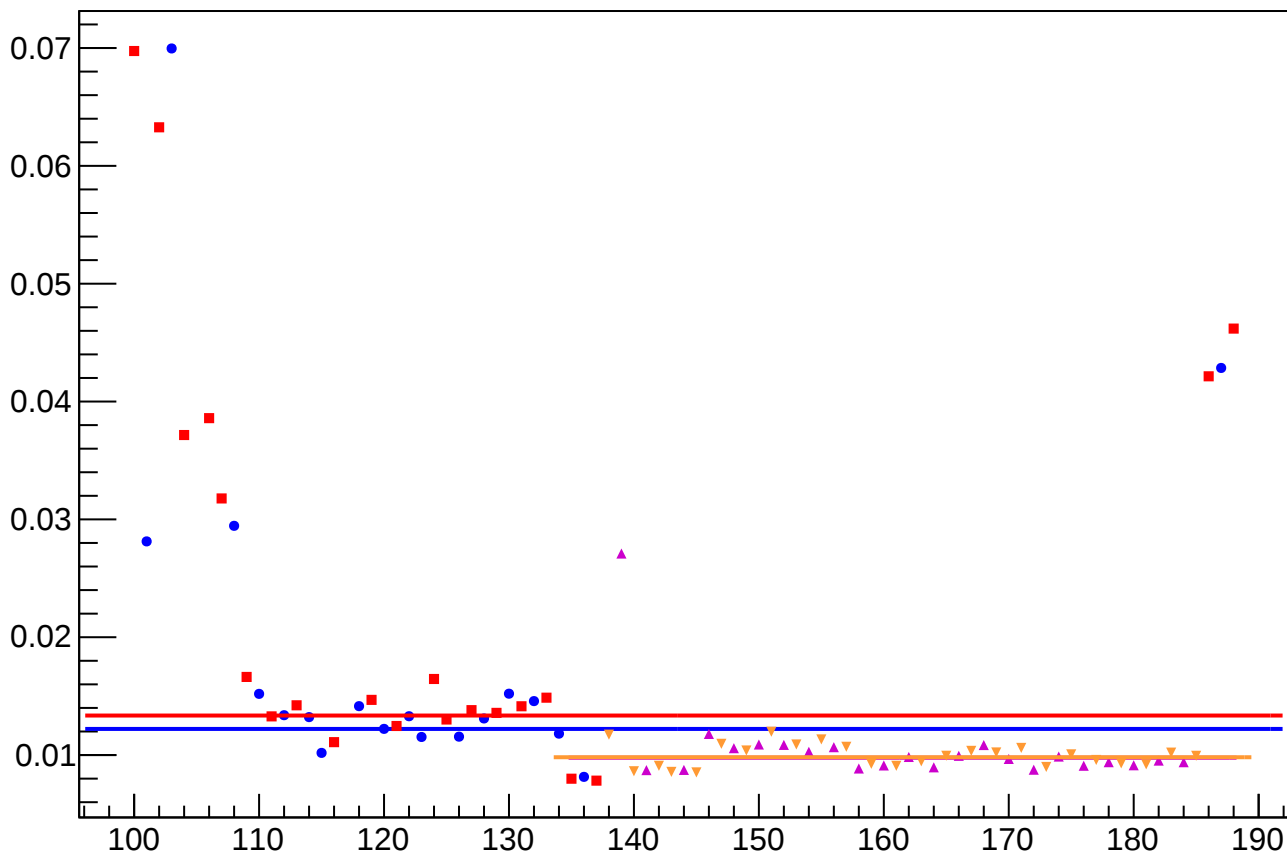
Right: -0.273 ± 0.000 $\chi^2/\text{NDF}: 1917231420.3/38$

In: -0.408 ± 0.000 $\chi^2/\text{NDF}: 1521648147.2/40$

Out: -0.409 ± 0.000 $\chi^2/\text{NDF}: 1809841608.0/45$

All: -0.409 ± 0.000 $\chi^2/\text{NDF}: 3331537797.7/8$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1869064.7/17

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 271172.3/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3174933.6/20

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF: 786577.8/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1058038.1/47

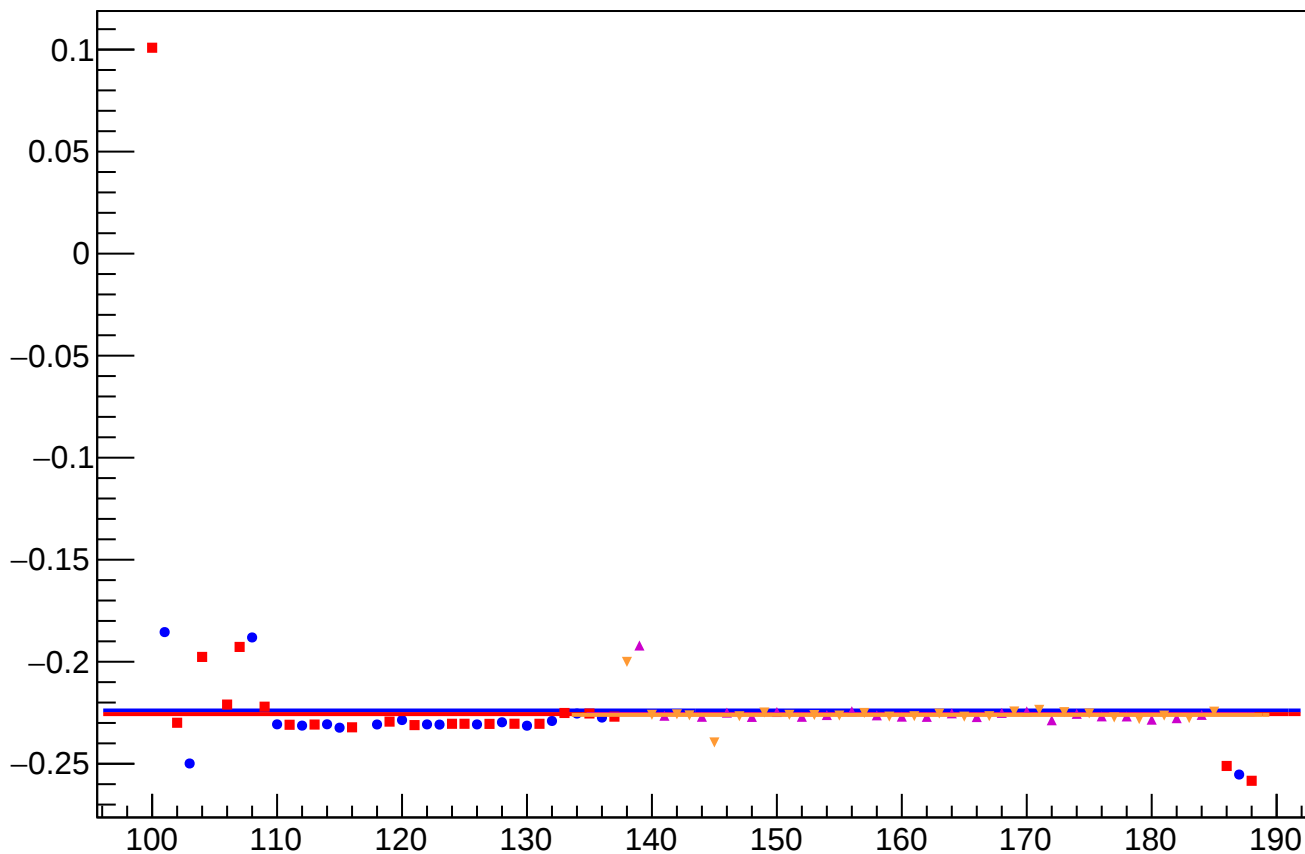
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 5083998.8/38

In: 0.010 $\pm$ 0.000 χ^2 /NDF: 2968807.3/40

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 4086641.4/45

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 7061687.1/86

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224+/-0.000 χ^2/NDF : 75380719.1/17

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.226+/-0.000 χ^2/NDF : 189343296.1/20

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

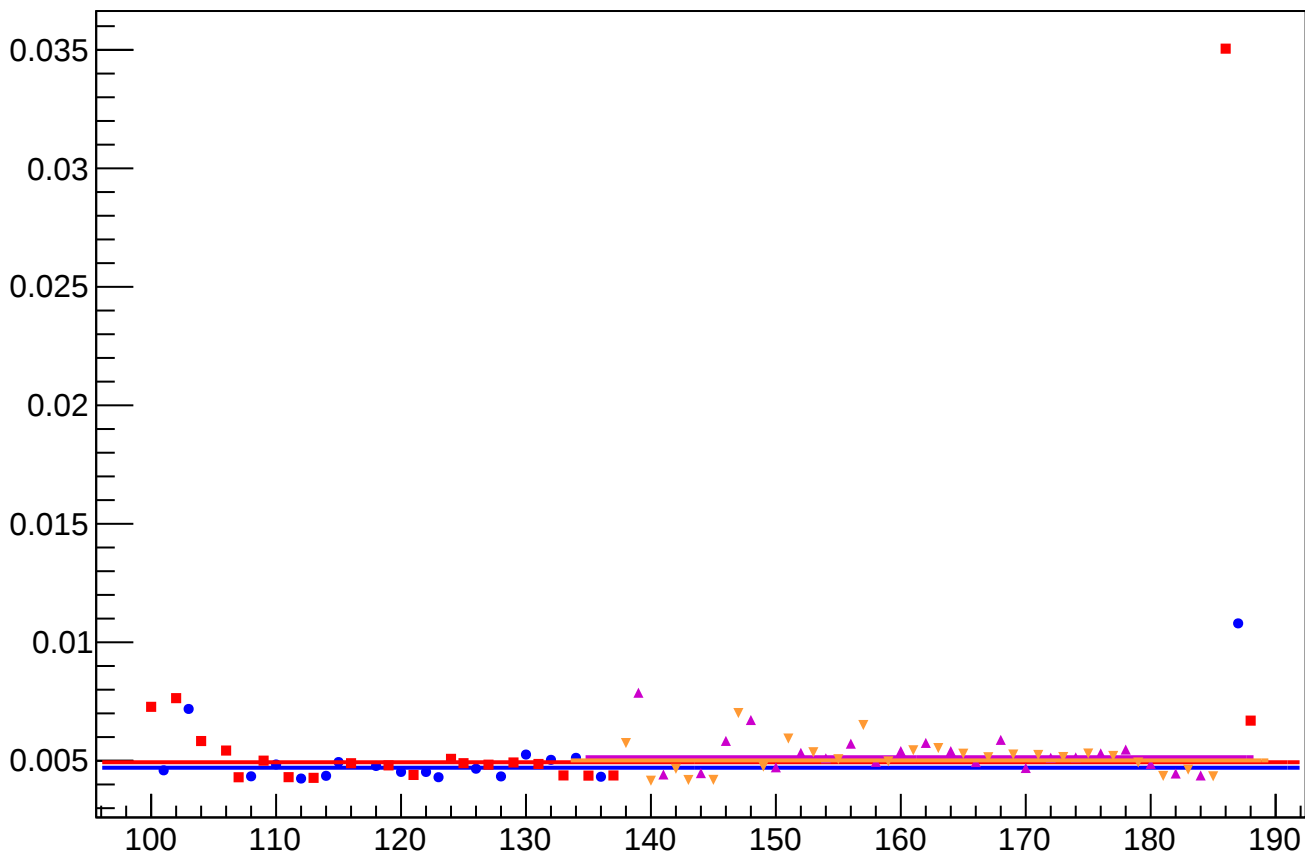
Right: -0.225+/-0.000 χ^2/NDF : 265173420.2/38

In: -0.225+/-0.000 χ^2/NDF : 89738579.7/40

Out: -0.226+/-0.000 χ^2/NDF : 210575693.2/45

All: -0.226+/-0.000 χ^2/NDF : 300573860.0/86

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 268927.6/17

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 901678.7/20

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

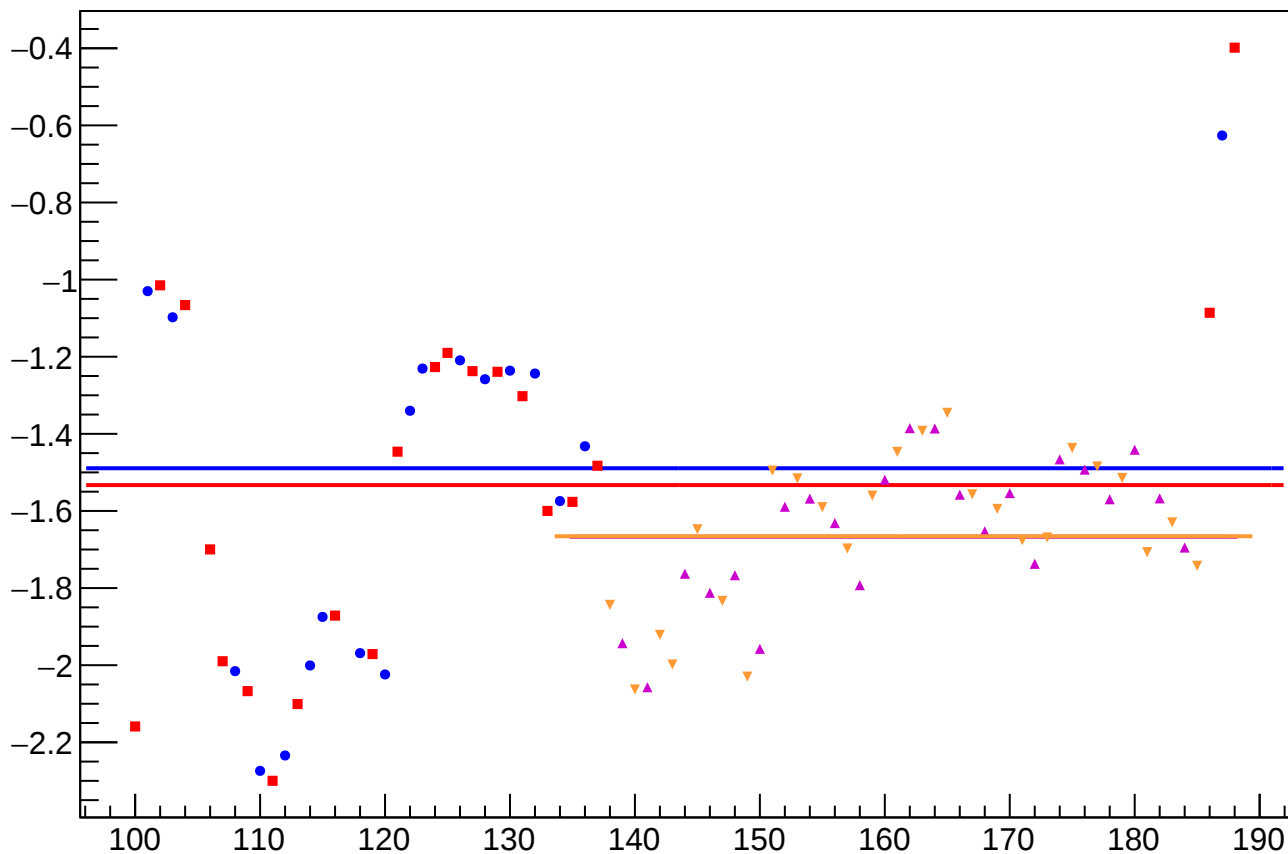
Right: 0.005+/-0.000 χ^2/NDF : 1185783.9/38

In: 0.005+/-0.000 χ^2/NDF : 847283.8/40

Out: 0.005+/-0.000 χ^2/NDF : 1436837.8/45

All: 0.005+/-0.000 χ^2/NDF : 2284550.8/86

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.489+/-0.000 χ^2/NDF : 23284358331.3/17

Left Out: -1.666+/-0.000 χ^2/NDF : 18368038680.8/24

Right Out: -1.533+/-0.000 χ^2/NDF : 41901048718.6/20

Left In: -1.667+/-0.000 χ^2/NDF : 14615453869.3/22

Left: -1.666+/-0.000 χ^2/NDF : 32983827631.4/47

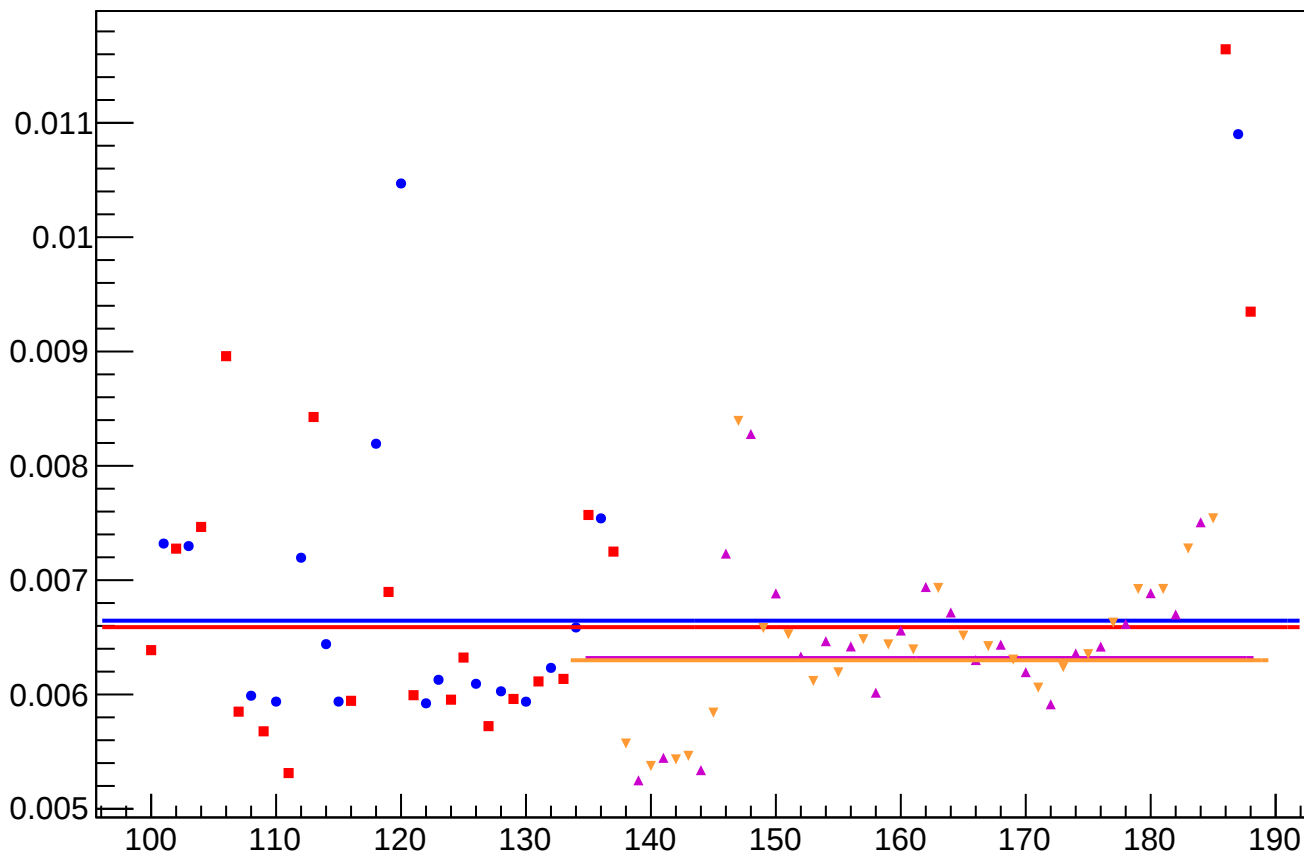
Right: -1.514+/-0.000 χ^2/NDF : 65333567213.2/38

In: -1.622+/-0.000 χ^2/NDF : 41189375985.1/40

Out: -1.628+/-0.000 χ^2/NDF : 62483140745.7/45

All: -1.625+/-0.000 χ^2/NDF : 103682111540.5

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 240200.7/17

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:312811.2/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 526461.0/20

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:334332.4/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 647302.7/47

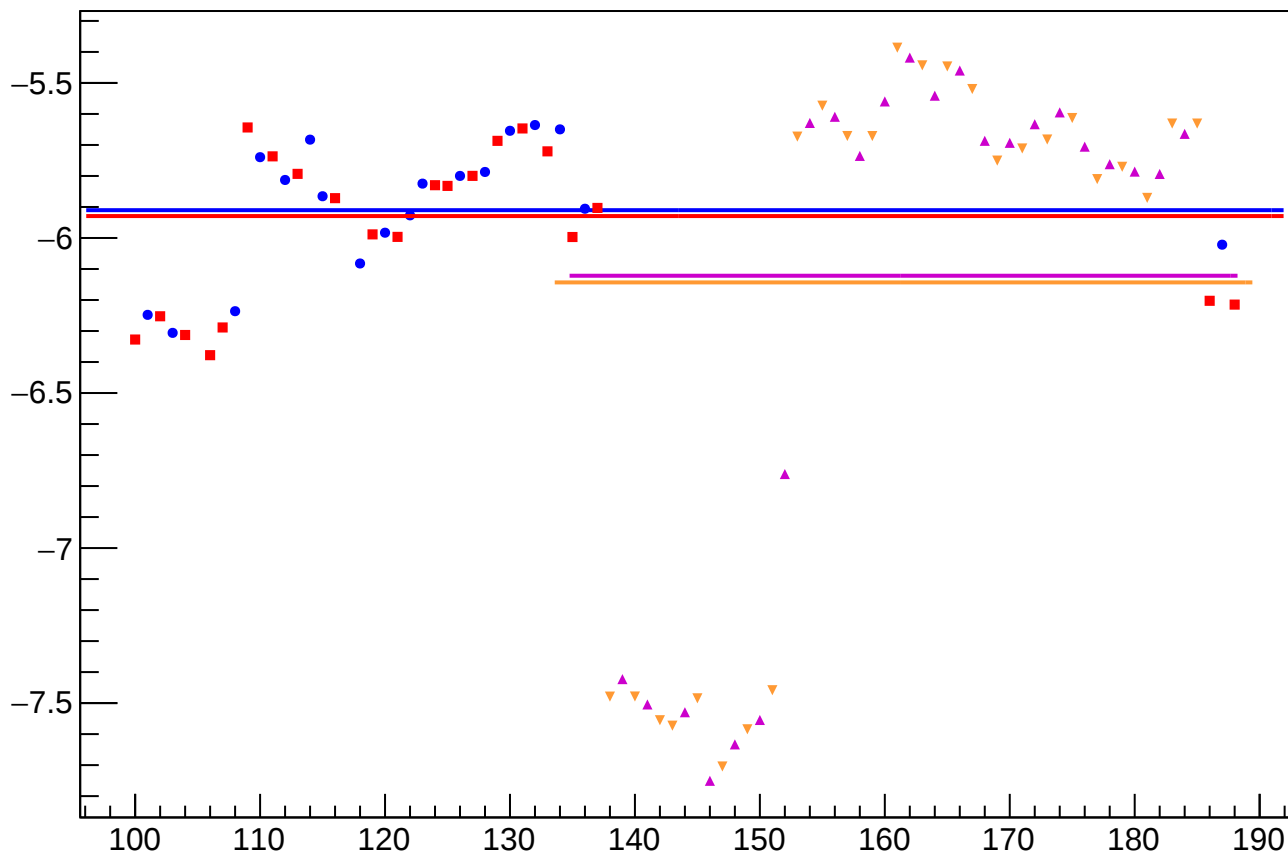
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 767160.4/38

In: 0.006 $\pm$ 0.000 χ^2 /NDF:596785.2/40

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:860318.4/45

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 1457320.3/86

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000 χ^2/NDF : 11114168055.1/17

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.929+/-0.000 χ^2/NDF : 13457378859.4/20

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

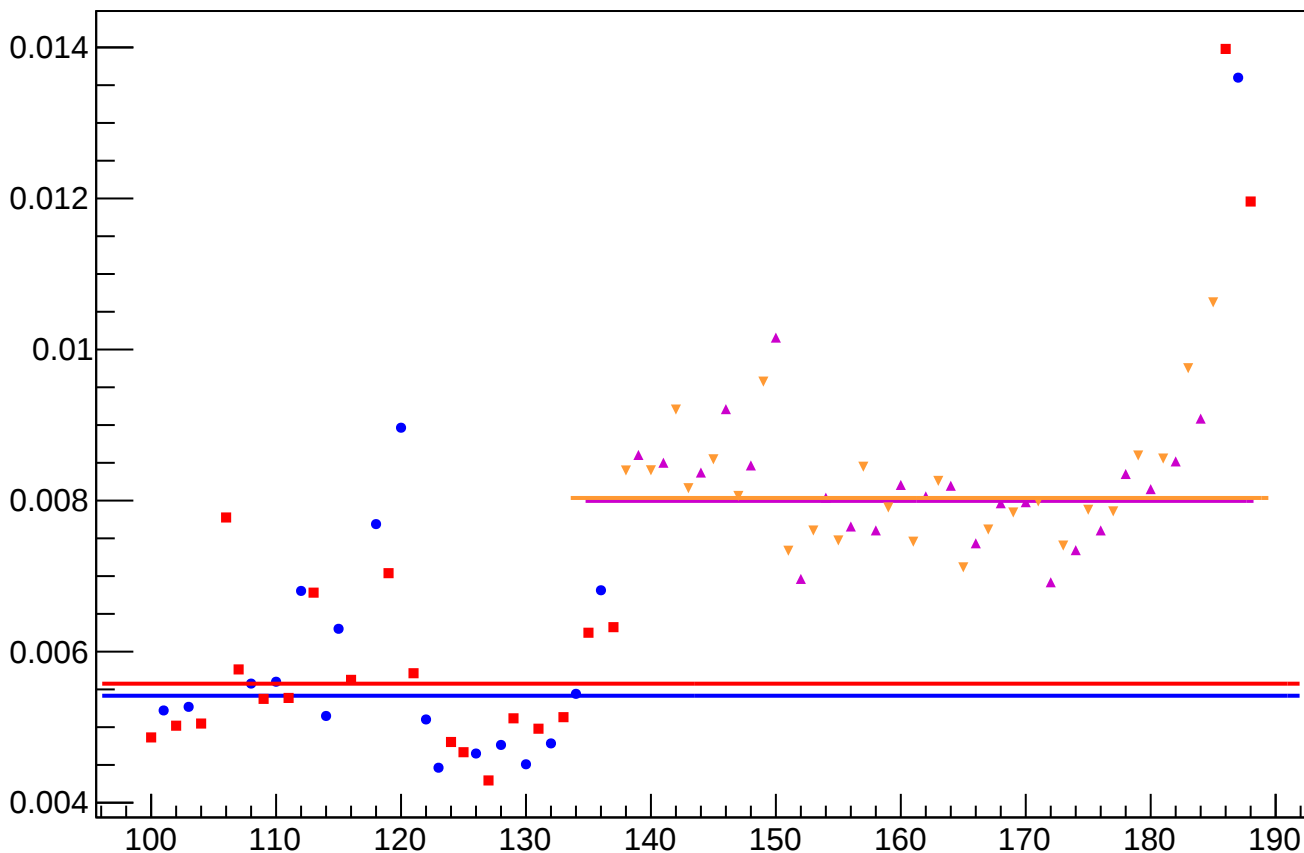
Right: -5.920+/-0.000 χ^2/NDF : 24610403001.7/38

In: -6.027+/-0.000 χ^2/NDF : 176009307101.9/40

Out: -6.042+/-0.000 χ^2/NDF : 204751181911.2/45

All: -6.035+/-0.000 χ^2/NDF : 380814465625.8

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 444369.5/17

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1010833.3/20

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

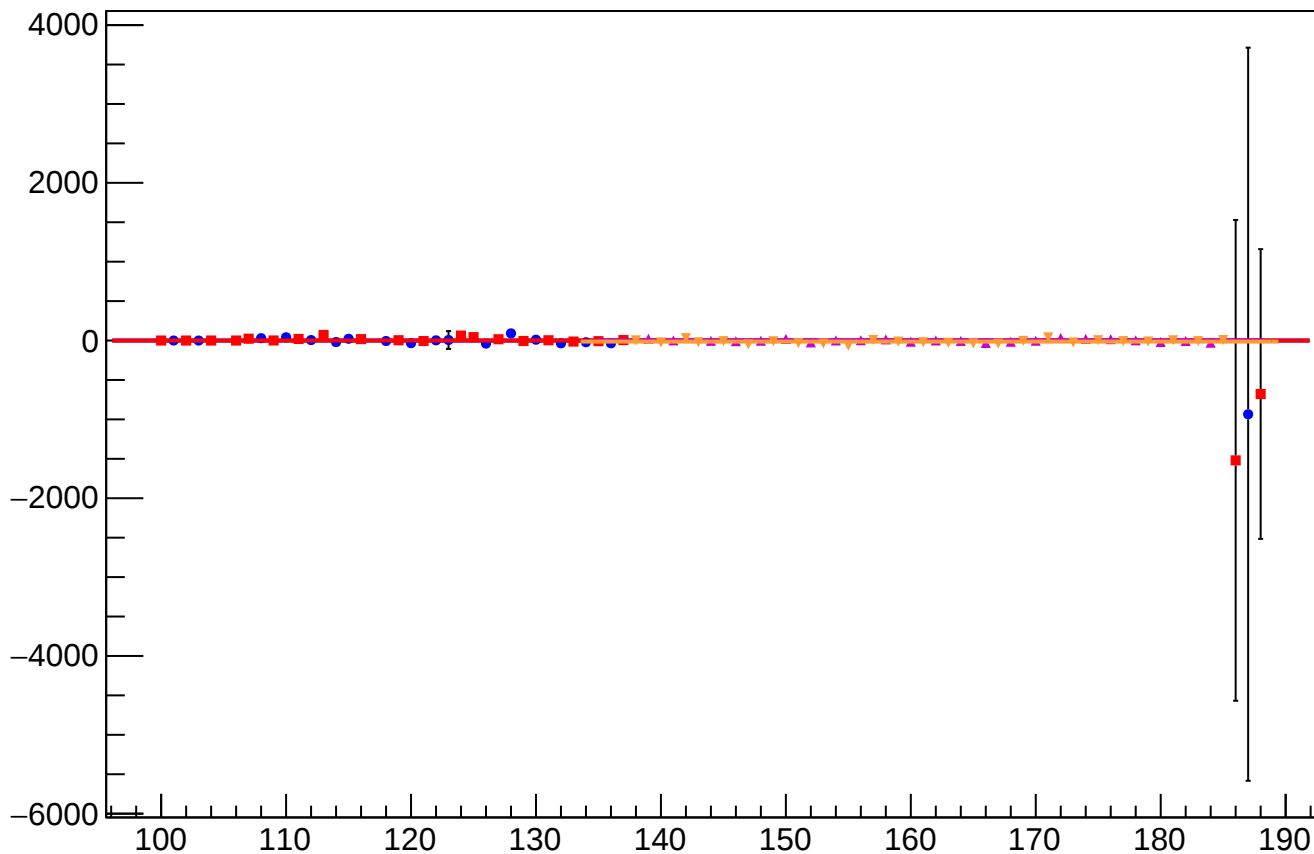
Right: 0.006+/-0.000 χ^2/NDF : 1460691.7/38

In: 0.007+/-0.000 χ^2/NDF :2148991.7/40

Out: 0.007+/-0.000 χ^2/NDF :2688643.3/45

All: 0.007+/-0.000 χ^2/NDF : 4838143.6/86

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 16.3/17

Left Out: -13.472 $\pm$ 2.796 χ^2 /NDF:58.5/24

Right Out: -0.003 $\pm$ 0.016 χ^2 /NDF: 15.3/20

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

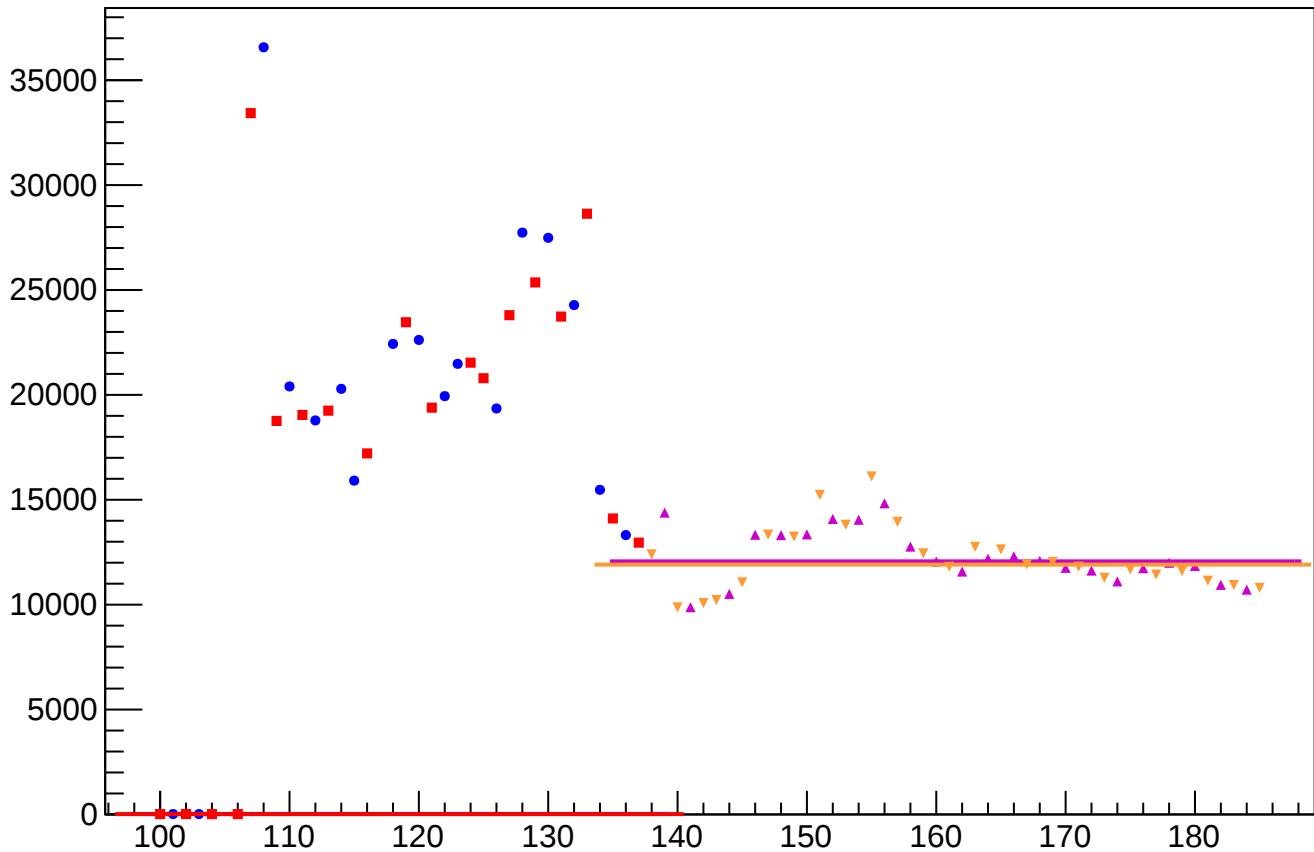
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 32.1/38

In: 0.013 $\pm$ 0.017 χ^2 /NDF:45.0/40

Out: -0.004 $\pm$ 0.016 χ^2 /NDF:97.0/45

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 142.5/86

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.640+/-0.012 χ^2/NDF : 10799270.4/16

Left Out: 11909.835+/-1.977 χ^2/NDF : 475310.2/24

Right Out: 18.311+/-0.011 χ^2/NDF : 11056055.0/18

Left In: 12064.321+/-2.054 χ^2/NDF : 372586.0/22

Left: 11984.125+/-1.425 χ^2/NDF : 850831.6/47

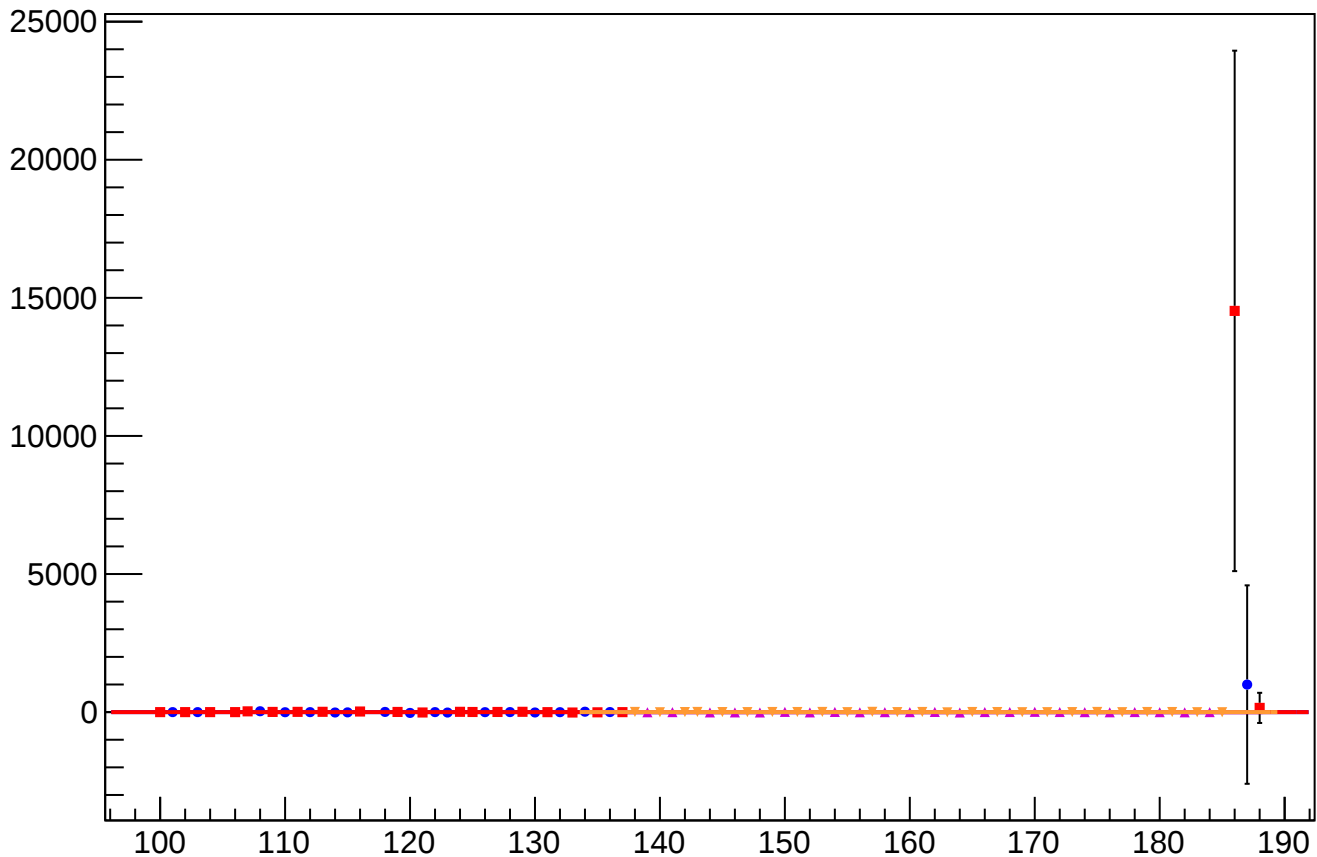
Right: 18.463+/-0.008 χ^2/NDF : 21855713.8/35

In: 19.069+/-0.012 χ^2/NDF : 45549762.6/39

Out: 18.704+/-0.011 χ^2/NDF : 47698495.9/43

All: 18.873+/-0.008 χ^2/NDF : 93248736.0/83

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 14.7/17

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF:17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 21.1/20

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

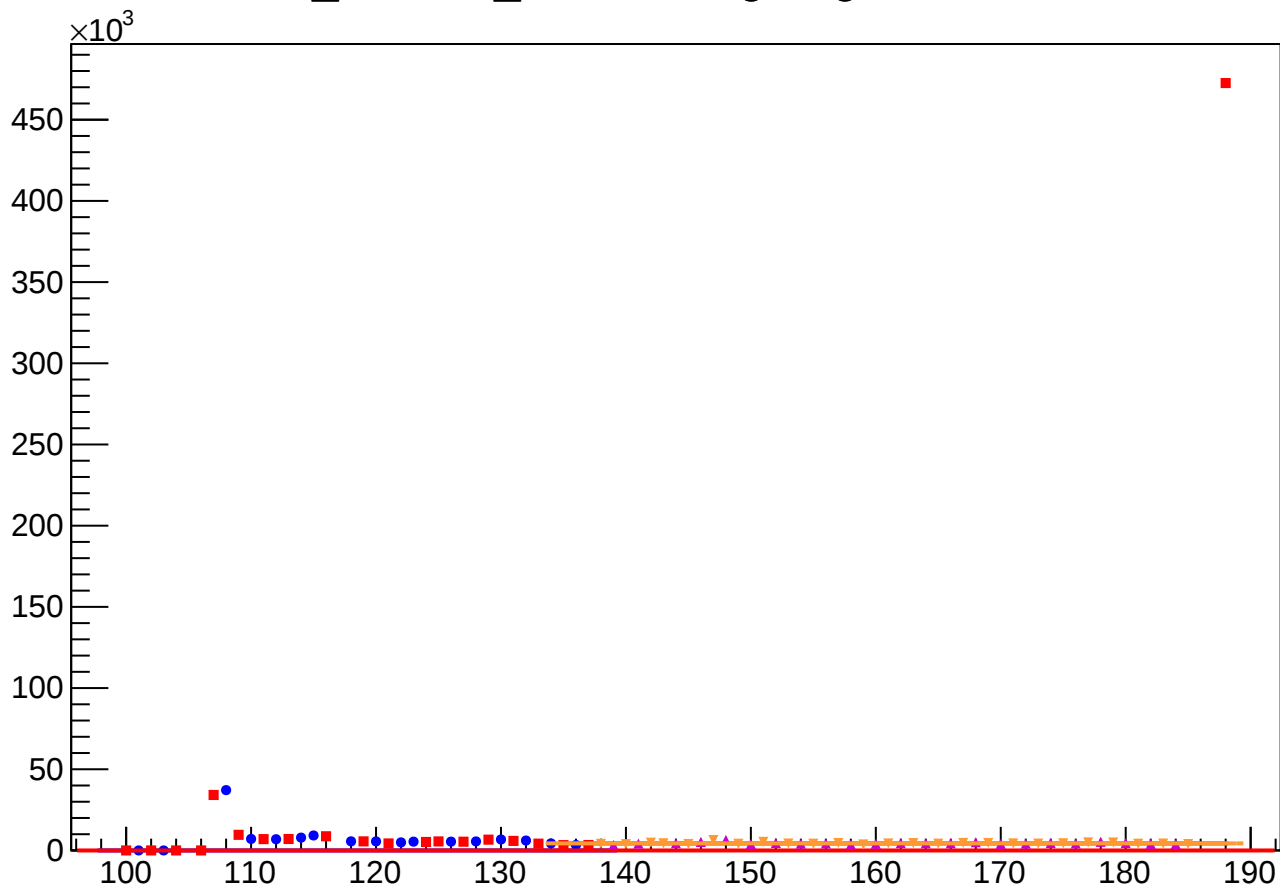
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 37.2/38

In: 0.001 $\pm$ 0.009 χ^2 /NDF:51.0/40

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:41.7/45

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 94.1/86

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.938 ± 0.007 χ^2/NDF : 10926318.4/16

Left Out: 4350.545 ± 0.722 χ^2/NDF : 384749.0/24

Right Out: 9.854 ± 0.006 χ^2/NDF : 12579164.5/19

Left In: 4314.568 ± 0.738 χ^2/NDF : 534594.3/22

Left: 4332.940 ± 0.516 χ^2/NDF : 920558.3/47

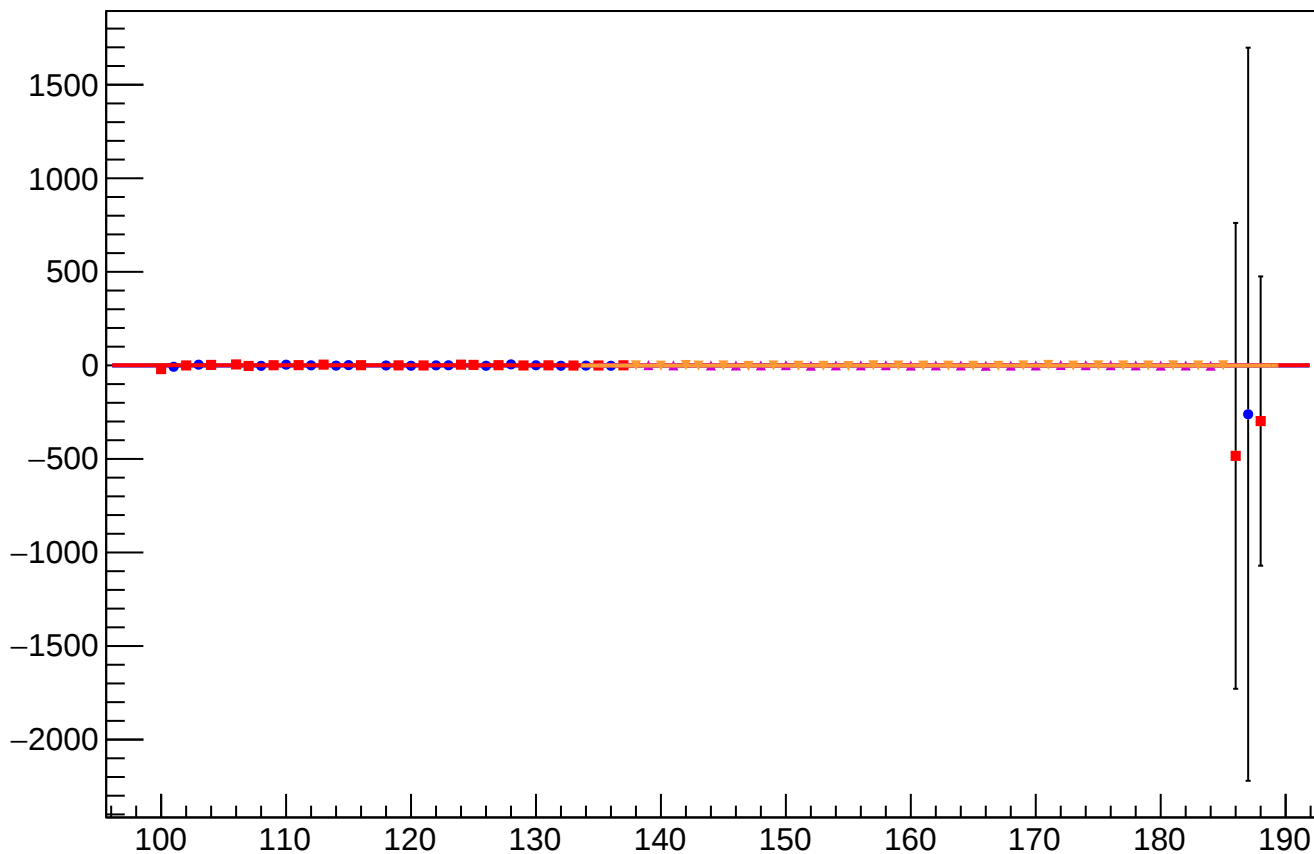
Right: 9.893 ± 0.004 χ^2/NDF : 23505570.6/36

In: 10.273 ± 0.007 χ^2/NDF : 45522351.0/39

Out: 10.166 ± 0.006 χ^2/NDF : 49108895.6/44

All: 10.216 ± 0.004 χ^2/NDF : 94631390.3/84

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.702 ± 0.485 $\chi^2/\text{NDF}: 22.5/17$

Left Out: -0.774 ± 0.164 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.760 ± 0.502 $\chi^2/\text{NDF}: 12.1/20$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

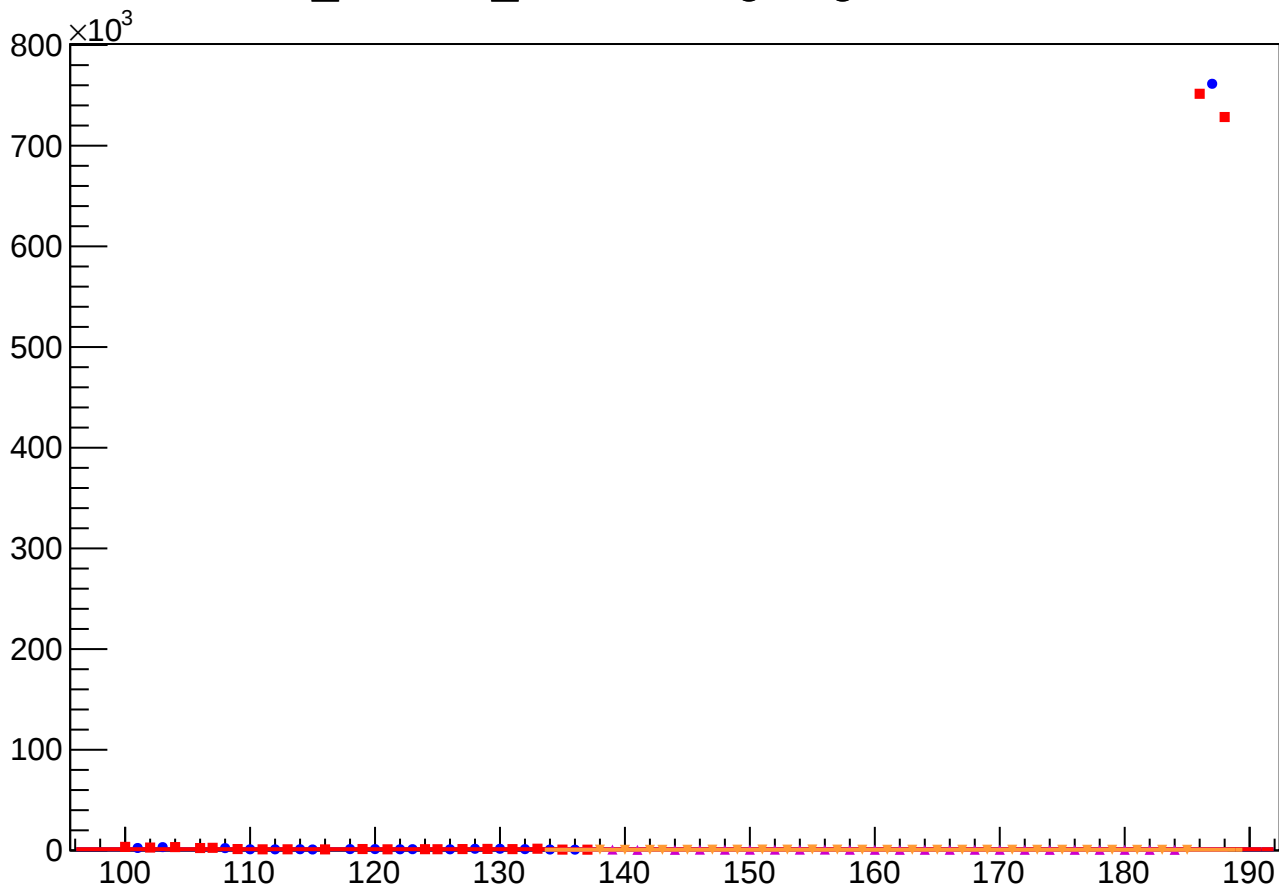
Right: 0.004 ± 0.349 $\chi^2/\text{NDF}: 39.0/38$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 53.7/40$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 78.9/45$

All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 139.0/86$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1164.258 $\pm$ 0.343 χ^2 /NDF: 1887272.4/17

Left Out: 700.797 $\pm$ 0.116 χ^2 /NDF: 392521.4/24

Right Out: 1249.696 $\pm$ 0.355 χ^2 /NDF: 4112491.4/20

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

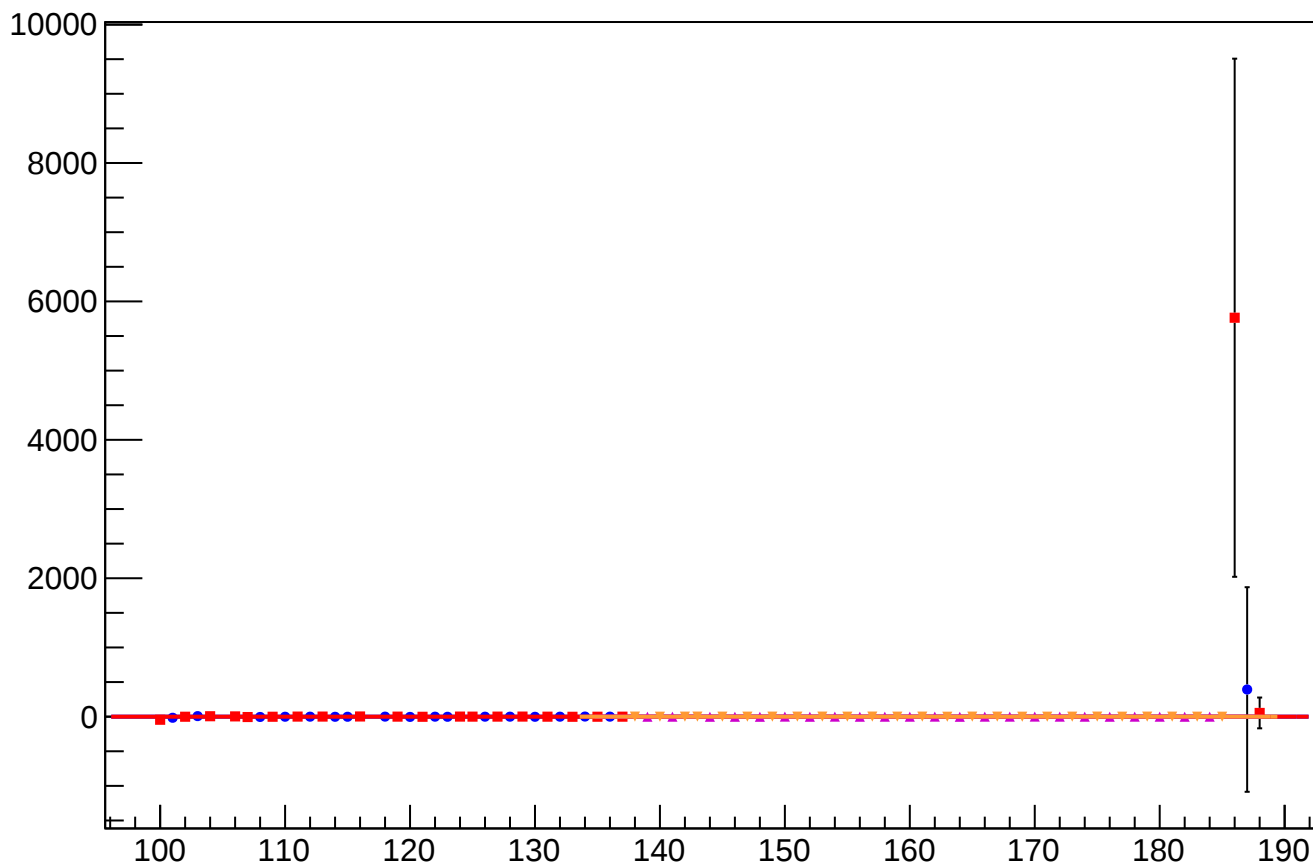
Right: 1205.499 $\pm$ 0.247 χ^2 /NDF: 6029721.2/38

In: 757.049 $\pm$ 0.114 χ^2 /NDF: 3808696.0/40

Out: 753.889 $\pm$ 0.110 χ^2 /NDF: 6664078.9/45

All: 755.425 $\pm$ 0.079 χ^2 /NDF: 10473173.3/86

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.271 χ^2/NDF : 21.0/17

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.244 ± 0.265 χ^2/NDF : 23.1/20

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

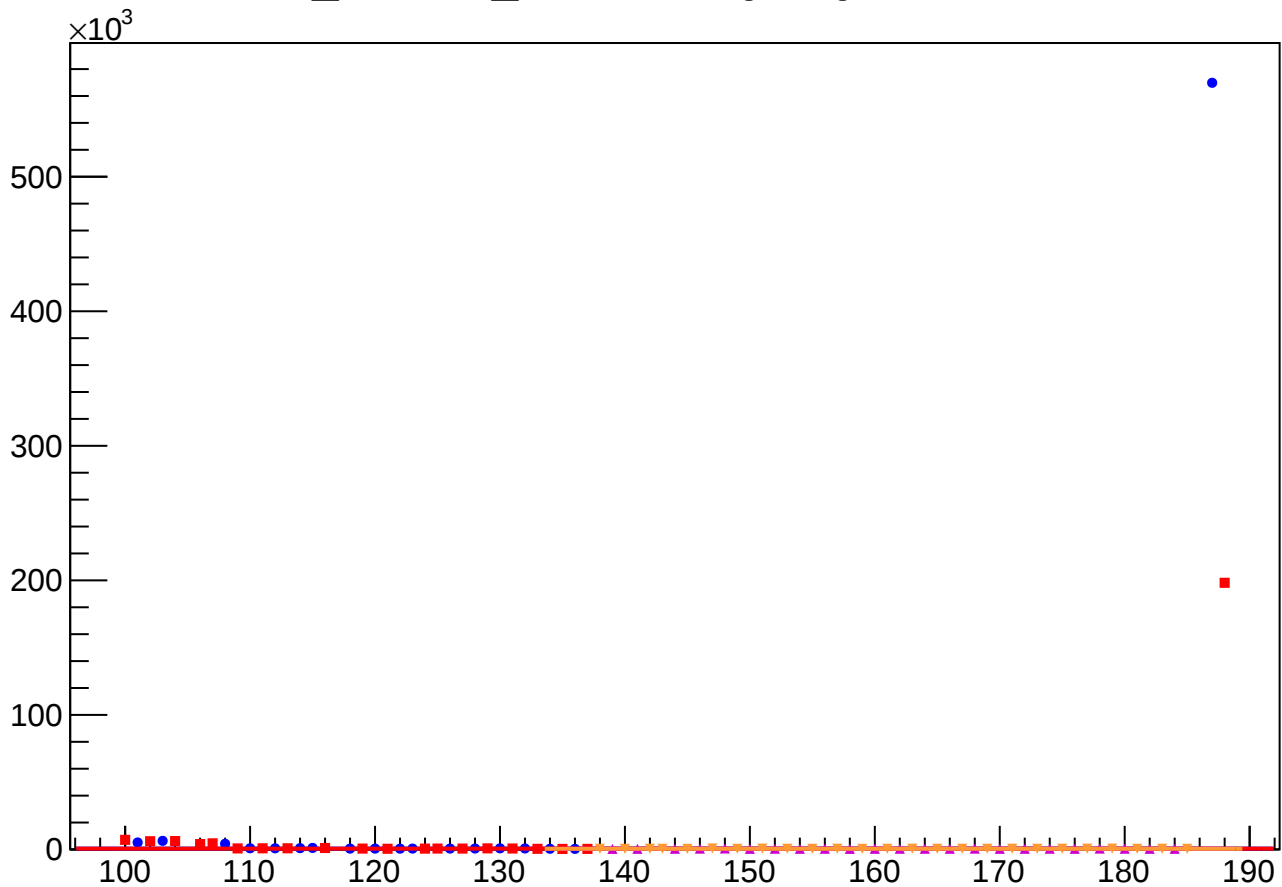
Right: -0.154 ± 0.189 χ^2/NDF : 44.4/38

In: -0.105 ± 0.114 χ^2/NDF : 56.0/40

Out: 0.152 ± 0.111 χ^2/NDF : 43.4/45

All: 0.026 ± 0.080 χ^2/NDF : 102.0/86

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 608.608 $\pm$ 0.191 χ^2 /NDF: 3434071.4/17

Left Out: 522.416 $\pm$ 0.087 χ^2 /NDF: 331573.1/24

Right Out: 599.996 $\pm$ 0.187 χ^2 /NDF: 5125604.7/19

Left In: 519.909 $\pm$ 0.089 χ^2 /NDF: 444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2 /NDF: 776728.3/47

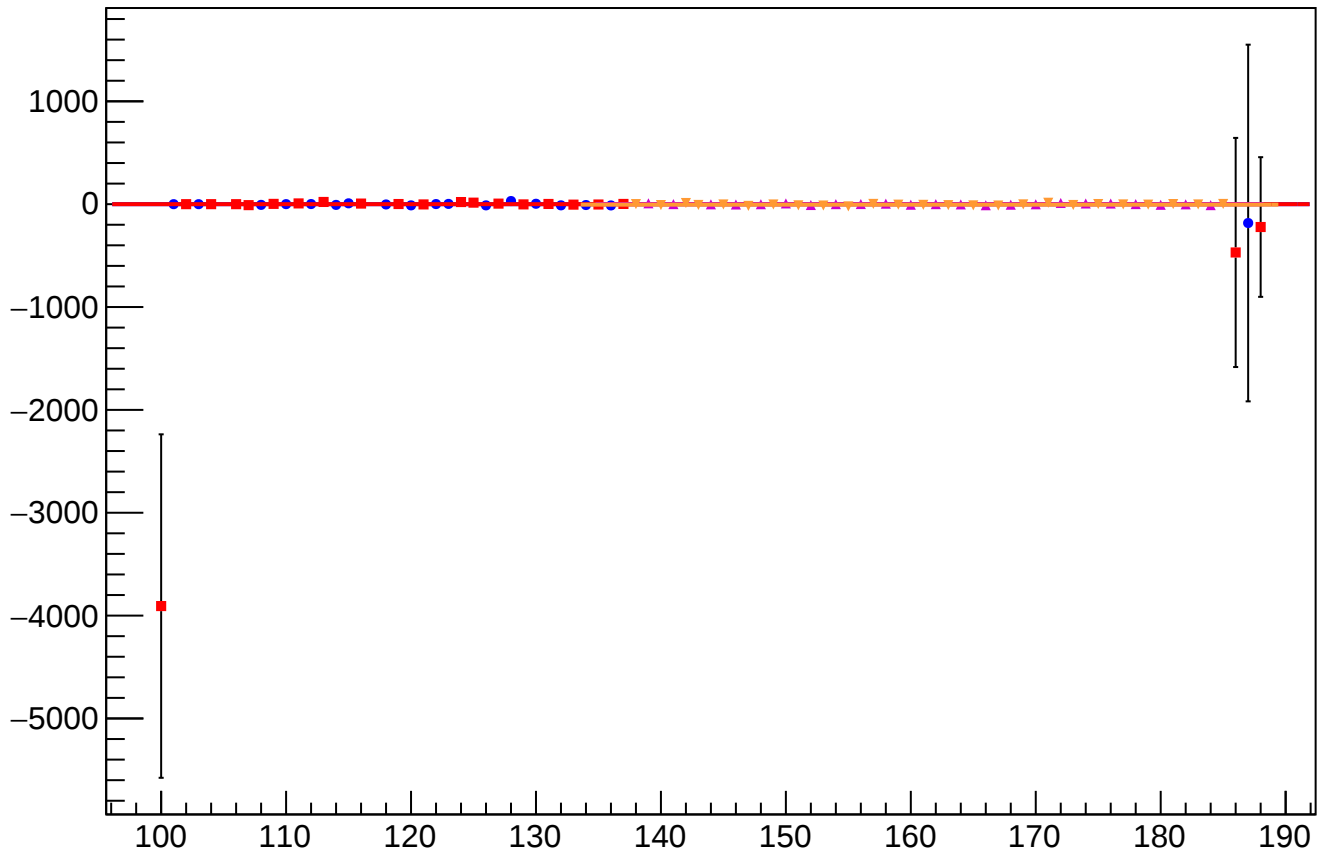
Right: 604.210 $\pm$ 0.134 χ^2 /NDF: 8560711.0/37

In: 535.613 $\pm$ 0.081 χ^2 /NDF: 4055707.6/40

Out: 536.085 $\pm$ 0.079 χ^2 /NDF: 5598547.0/44

All: 535.854 $\pm$ 0.056 χ^2 /NDF: 9654272.2/85

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2 /NDF: 15.6/17

Left Out: -4.474 $\pm$ 0.956 χ^2 /NDF: 58.2/24

Right Out: 0.027 $\pm$ 0.020 χ^2 /NDF: 17.1/20

Left In: 0.193 $\pm$ 0.990 χ^2 /NDF: 29.2/22

Left: -2.224 $\pm$ 0.688 χ^2 /NDF: 99.0/47

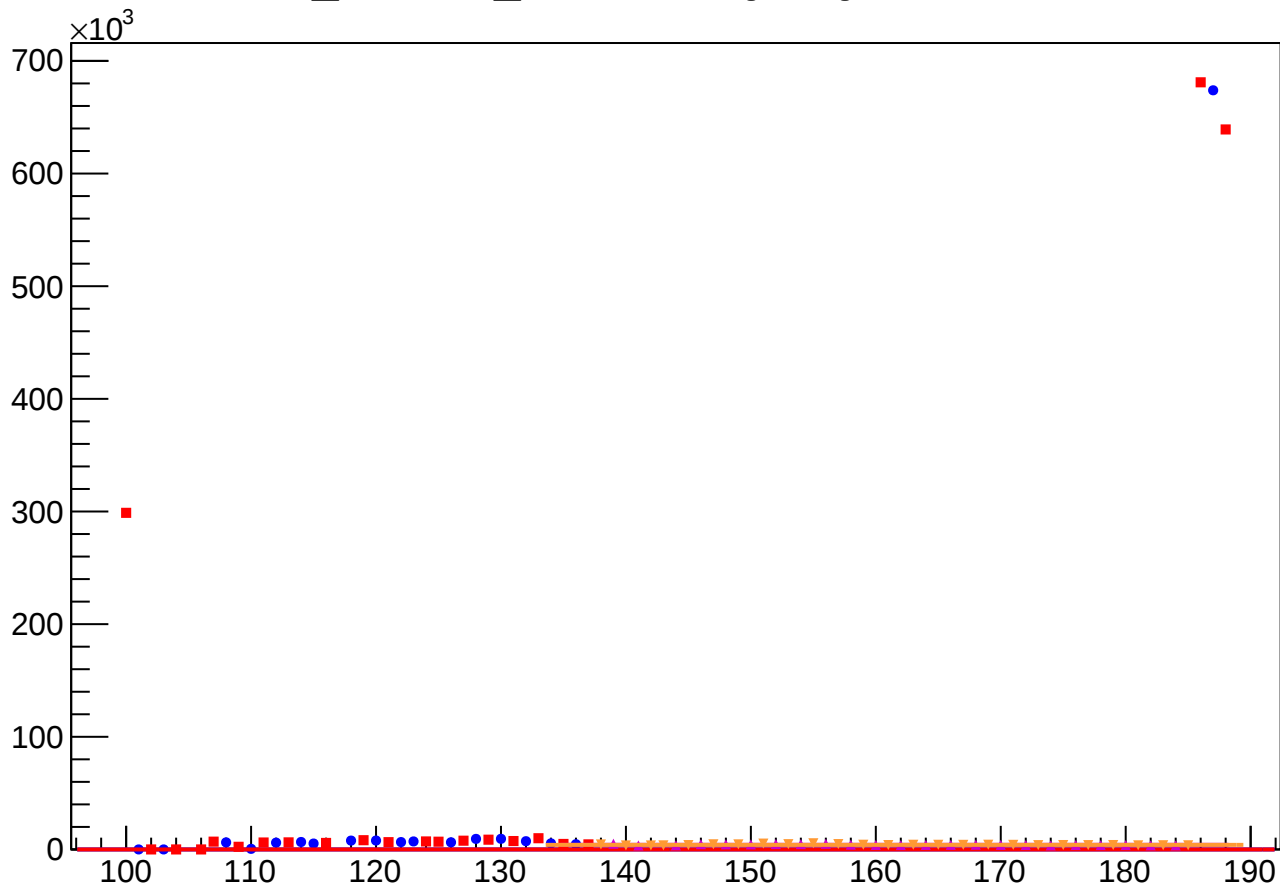
Right: 0.004 $\pm$ 0.014 χ^2 /NDF: 35.6/38

In: -0.022 $\pm$ 0.021 χ^2 /NDF: 44.9/40

Out: 0.025 $\pm$ 0.020 χ^2 /NDF: 97.5/45

All: 0.003 $\pm$ 0.014 χ^2 /NDF: 145.0/86

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.335 $\pm$ 0.015 χ^2 /NDF: 10617458.8/17

Left Out: 4074.257 $\pm$ 0.676 χ^2 /NDF: 416916.0/24

Right Out: 17.268 $\pm$ 0.014 χ^2 /NDF: 13278605.5/20

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

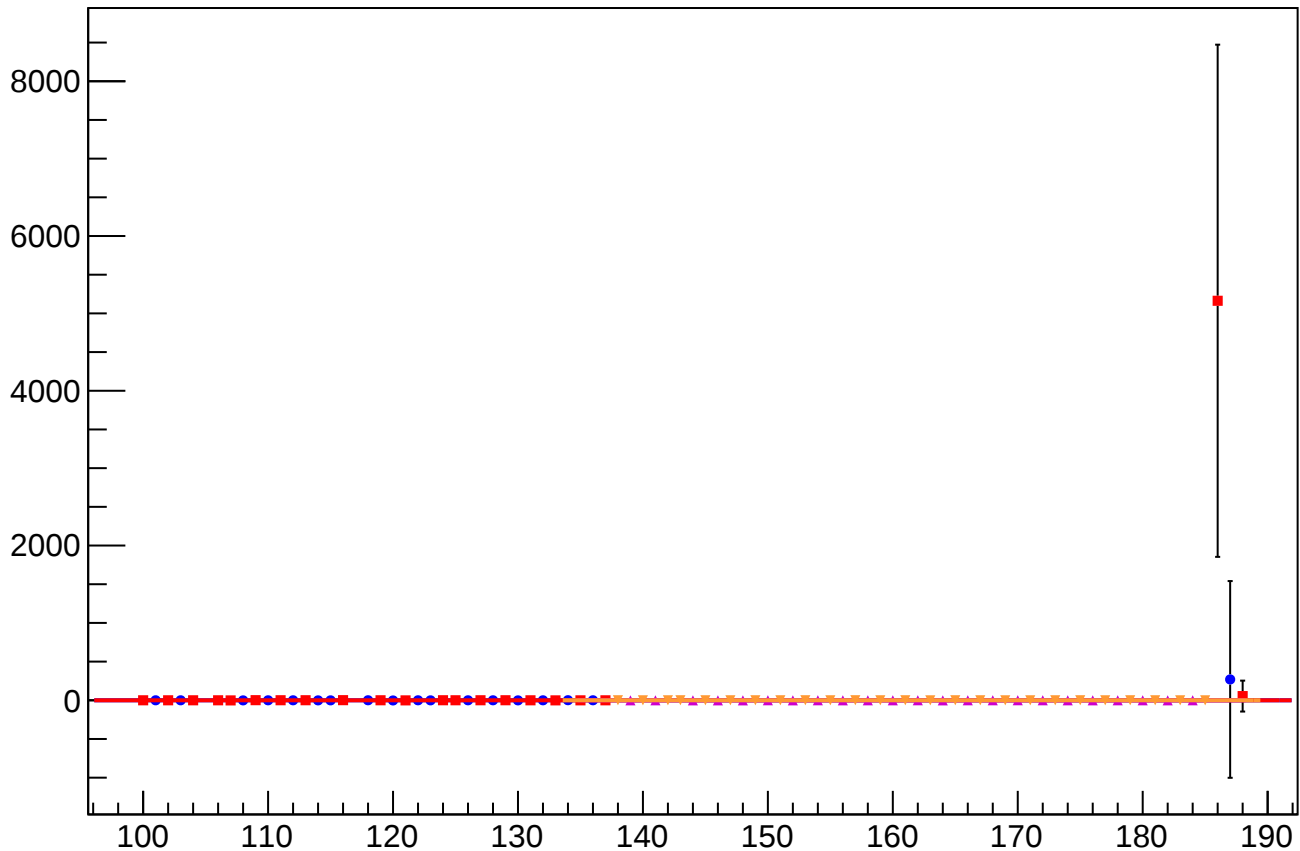
Right: 17.300 $\pm$ 0.010 χ^2 /NDF: 23896075.4/38

In: 19.141 $\pm$ 0.015 χ^2 /NDF: 45186705.6/40

Out: 19.005 $\pm$ 0.014 χ^2 /NDF: 49731587.6/45

All: 19.070 $\pm$ 0.010 χ^2 /NDF: 94918338.5/86

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 15.4/17

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 20.6/20

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

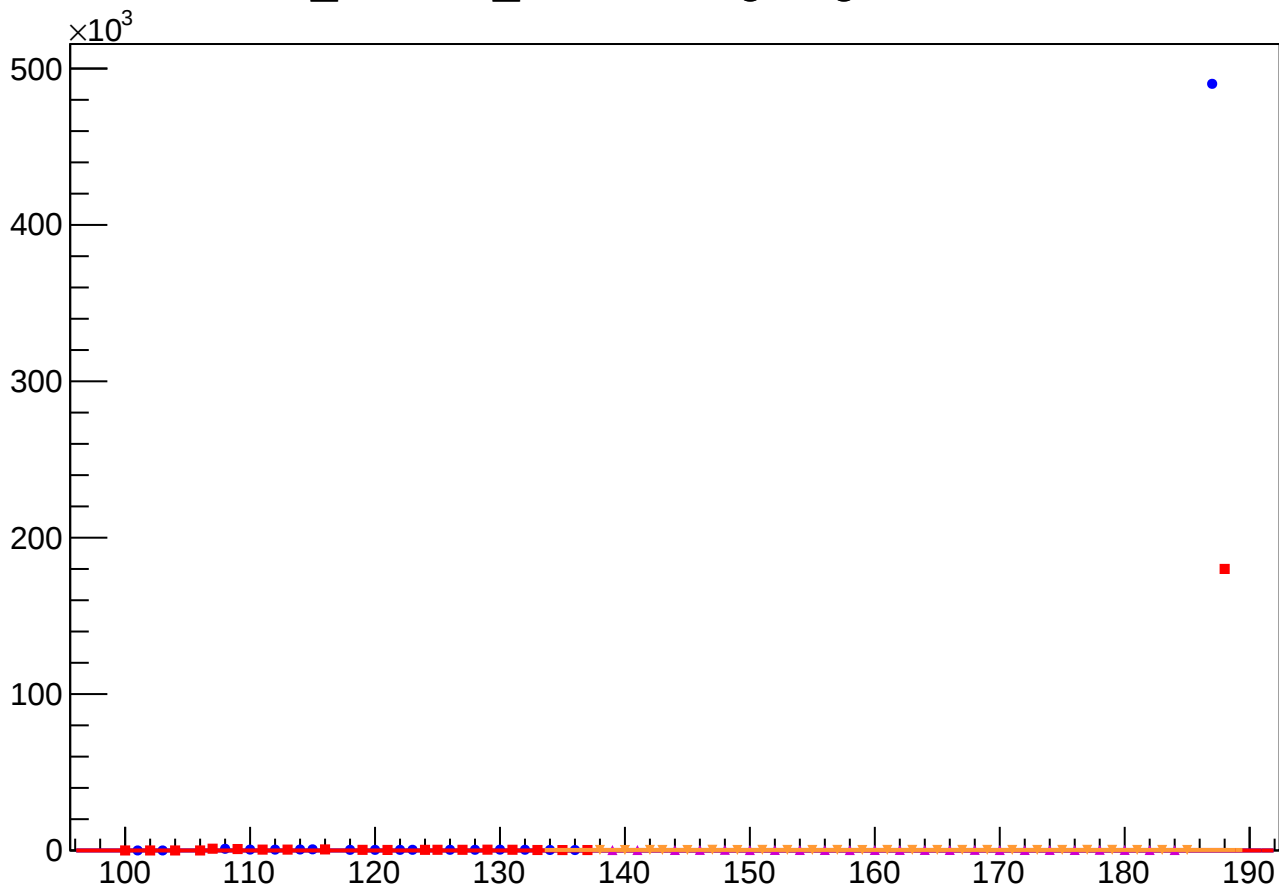
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 36.1/38

In: 0.000 $\pm$ 0.002 χ^2 /NDF:51.1/40

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:41.3/45

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 92.5/86

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2/NDF : 11162410.2/17

Left Out: 325.469 $\pm$ 0.054 χ^2/NDF : 350046.8/24

Right Out: 1.728 $\pm$ 0.001 χ^2/NDF : 12314517.4/19

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

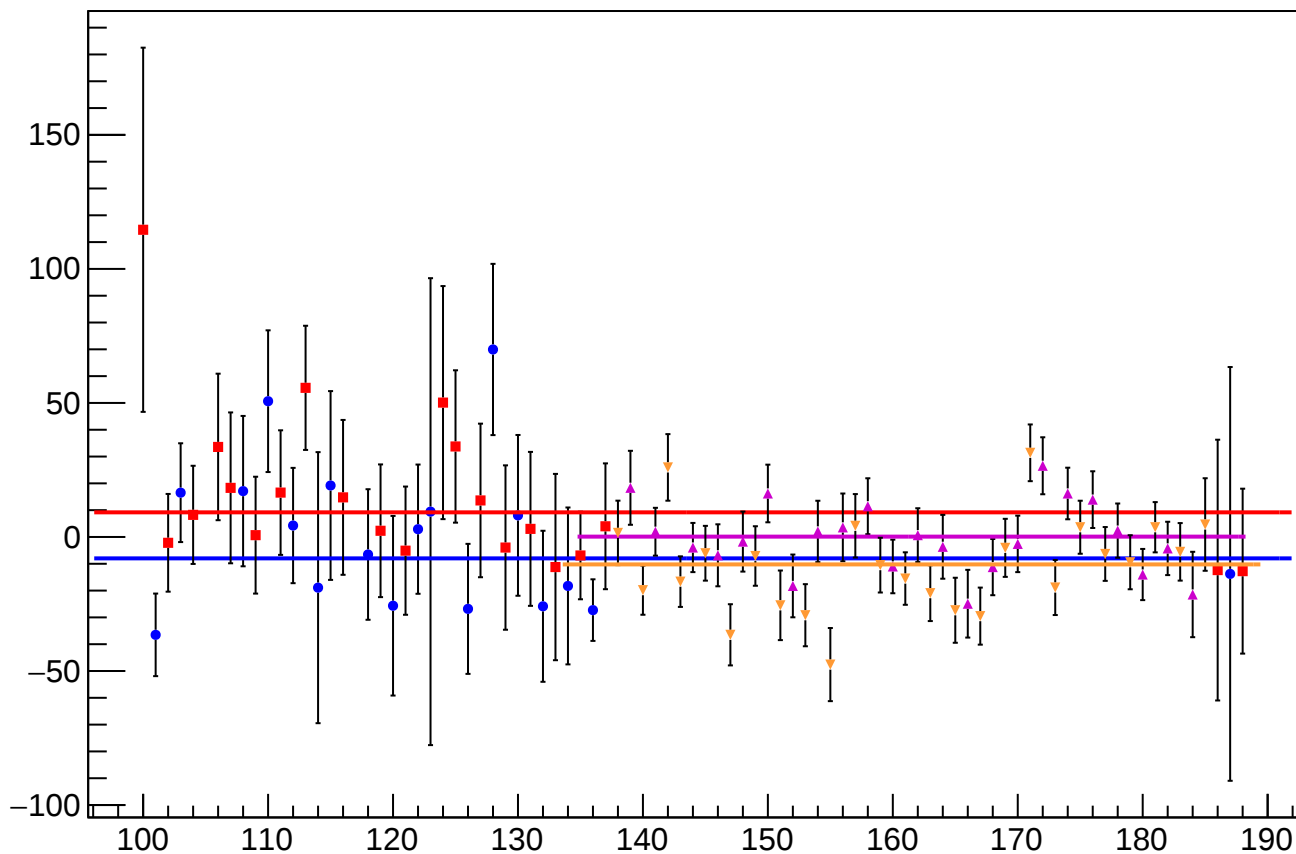
Right: 1.714 $\pm$ 0.001 χ^2/NDF : 23477154.7/37

In: 1.914 $\pm$ 0.001 χ^2/NDF : 45565875.8/40

Out: 1.937 $\pm$ 0.001 χ^2/NDF : 48622367.4/44

All: 1.926 $\pm$ 0.001 χ^2/NDF : 94188381.2/85

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.983±/5.624 χ^2/NDF : 22.6/17

Left Out: -10.235±/-2.167 χ^2/NDF :58.0/24

Right Out: 9.187±/-5.561 χ^2/NDF : 12.4/20

Left In: 0.130±/-2.242 χ^2/NDF :29.8/22

Left: -5.230±/-1.558 χ^2/NDF : 98.9/47

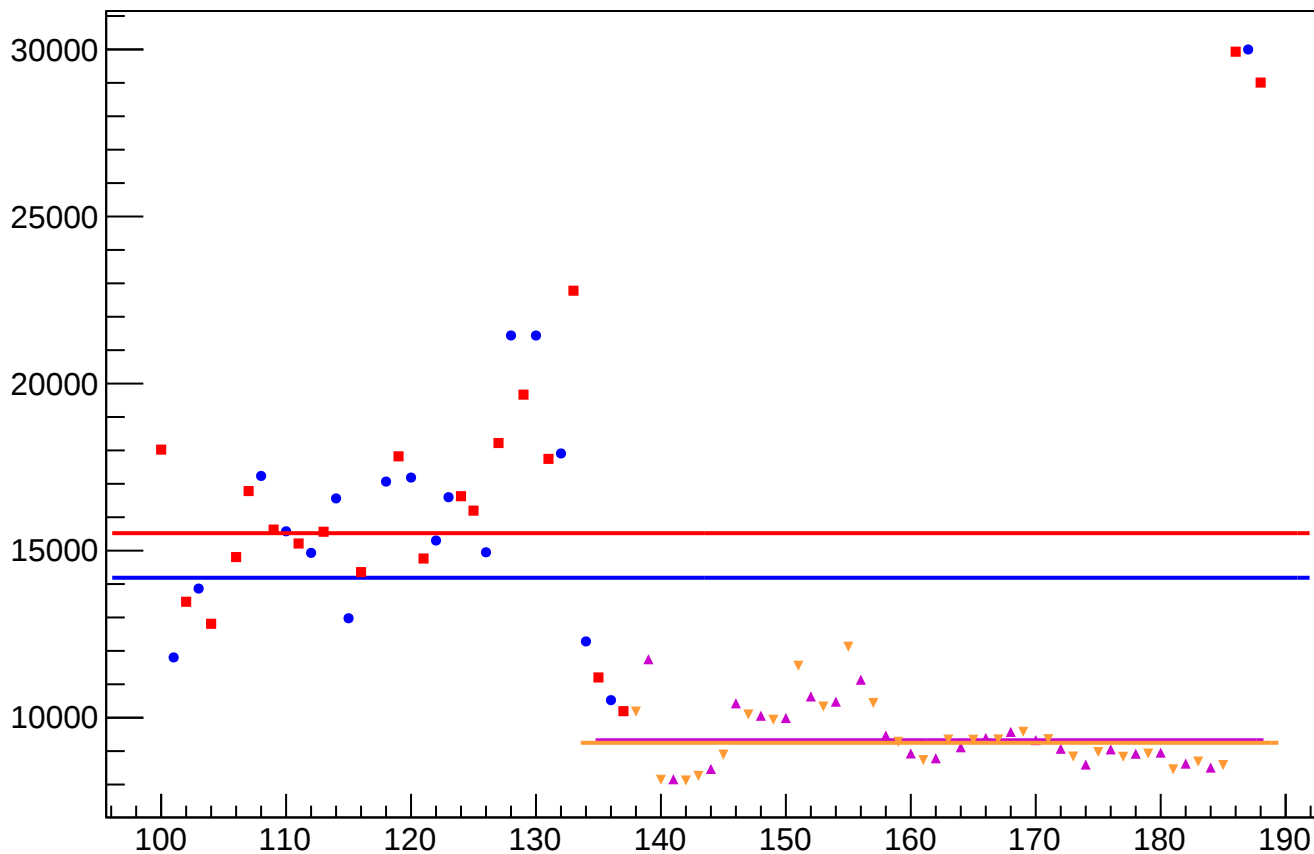
Right: 0.699±/-3.954 χ^2/NDF : 39.7/38

In: -0.983±/-2.083 χ^2/NDF :54.2/40

Out: -7.675±/-2.019 χ^2/NDF :81.0/45

All: -4.433±/-1.450 χ^2/NDF : 140.5/86

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14188.516 $\pm$ 3.977 χ^2 /NDF: 689233.2/17

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 15522.686 $\pm$ 3.932 χ^2 /NDF: 1058870.0/20

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

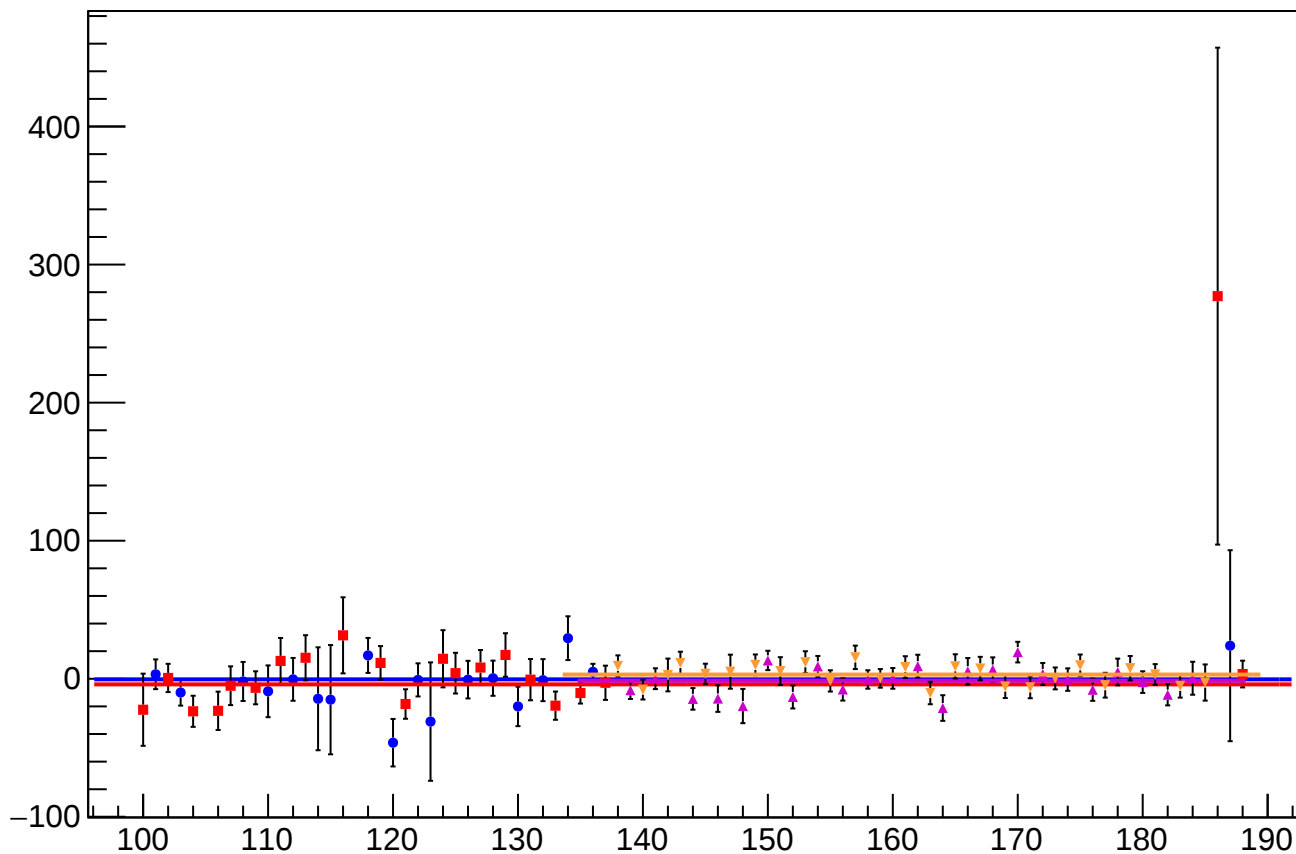
Right: 14863.123 $\pm$ 2.796 χ^2 /NDF: 1805021.0/38

In: 9992.190 $\pm$ 1.473 χ^2 /NDF:2260772.2/40

Out: 10076.231 $\pm$ 1.428 χ^2 /NDF:3600872.6/45

All: 10035.521 $\pm$ 1.025 χ^2 /NDF: 5863323.7/8

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.407 ± 3.086 $\chi^2/\text{NDF}: 17.6/17$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -4.046 ± 2.818 $\chi^2/\text{NDF}: 23.0/20$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

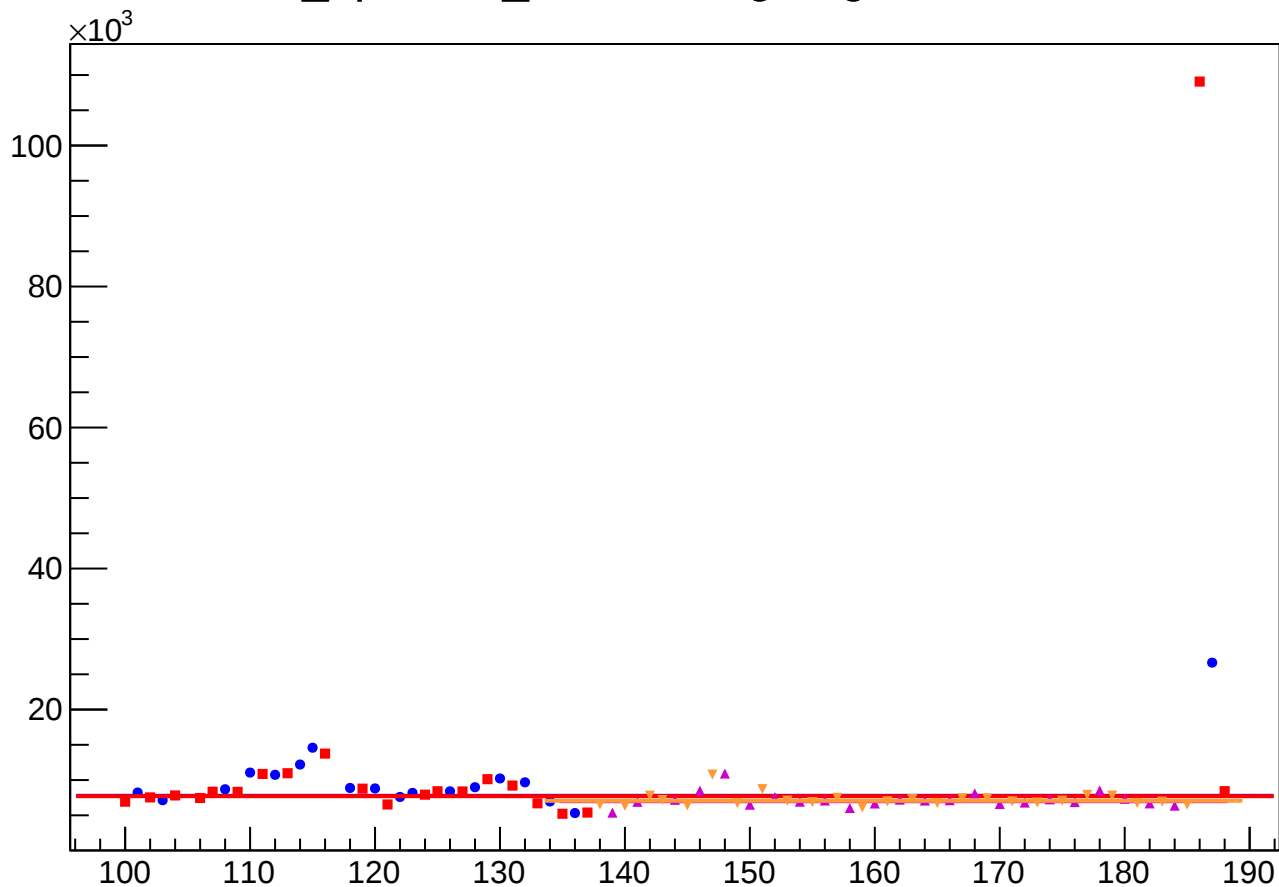
Right: -2.392 ± 2.081 $\chi^2/\text{NDF}: 41.4/38$

In: -1.166 ± 1.484 $\chi^2/\text{NDF}: 53.0/40$

Out: 1.232 ± 1.430 $\chi^2/\text{NDF}: 46.0/45$

All: 0.078 ± 1.030 $\chi^2/\text{NDF}: 100.4/86$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7764.304 $\pm$ 2.182 χ^2/NDF : 892115.2/17

Left Out: 7066.826 $\pm$ 1.173 χ^2/NDF : 387449.8/24

Right Out: 7713.559 $\pm$ 1.993 χ^2/NDF : 1326605.3/20

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

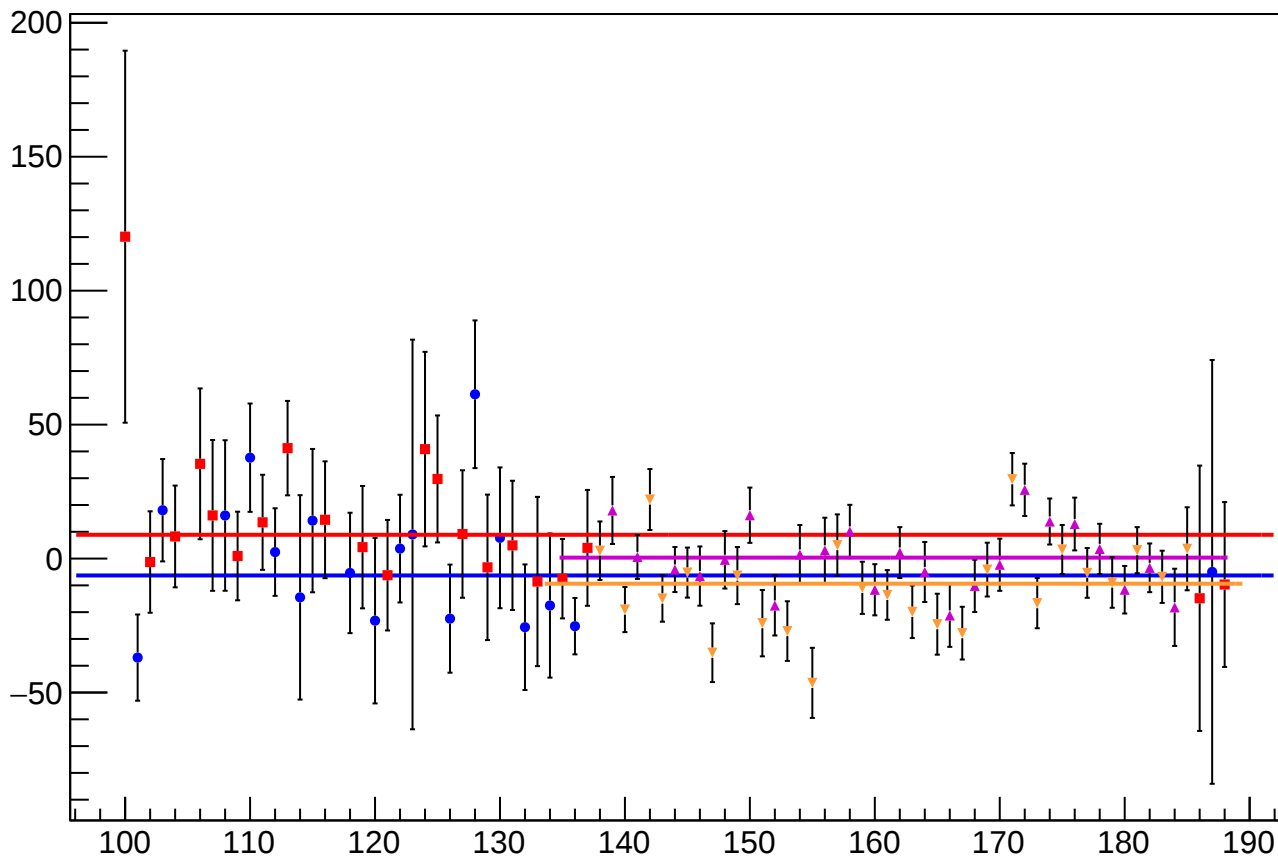
Right: 7736.631 $\pm$ 1.471 χ^2/NDF : 2219015.3/38

In: 7177.235 $\pm$ 1.050 χ^2/NDF : 1536296.4/40

Out: 7233.265 $\pm$ 1.011 χ^2/NDF : 1792290.5/45

All: 7206.306 $\pm$ 0.728 χ^2/NDF : 3330065.2/86

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.297 $\pm$ 5.035 χ^2/NDF : 23.2/17

Left Out: -9.376 $\pm$ 2.018 χ^2/NDF : 58.4/24

Right Out: 8.879 $\pm$ 4.923 χ^2/NDF : 12.1/20

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

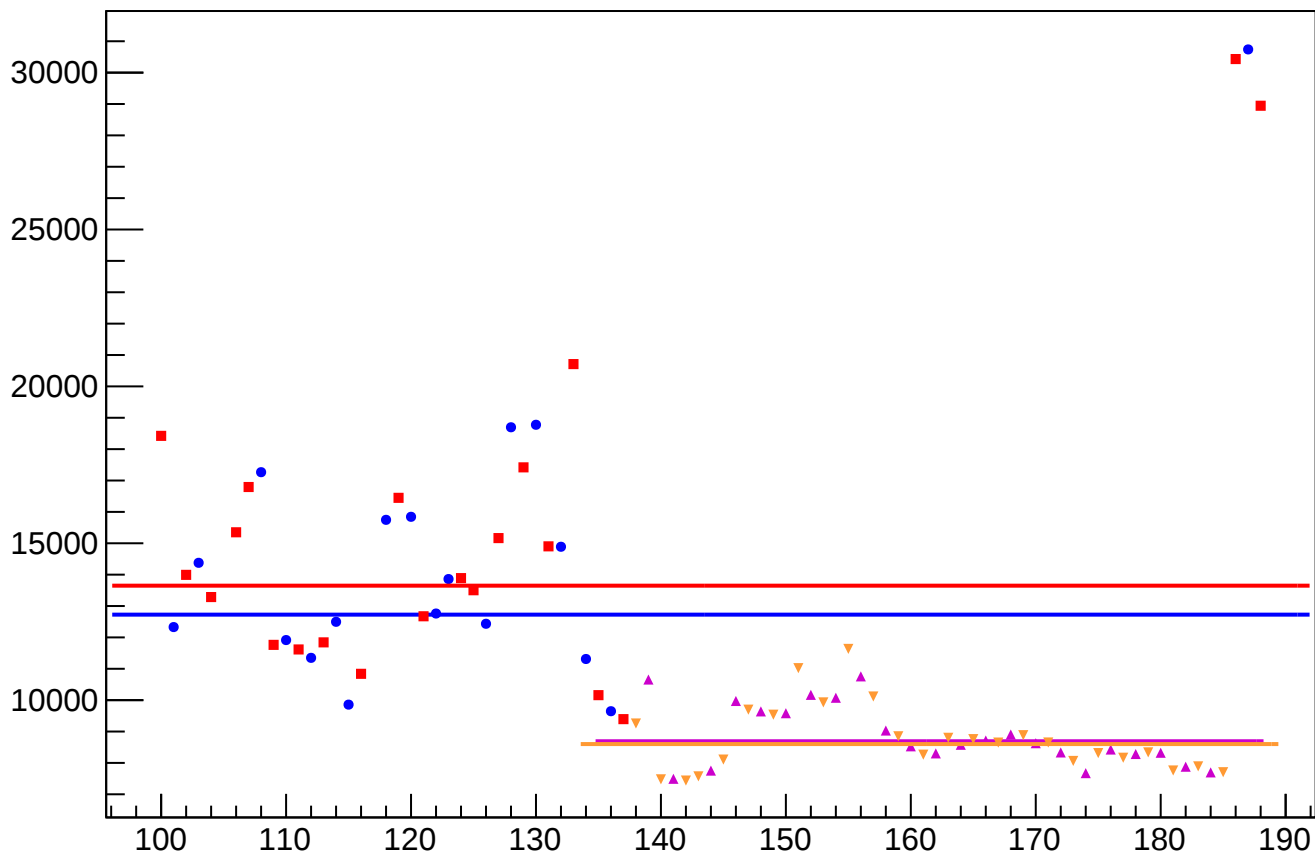
Right: 1.461 $\pm$ 3.520 χ^2/NDF : 39.9/38

In: -0.626 $\pm$ 1.932 χ^2/NDF : 54.3/40

Out: -6.751 $\pm$ 1.867 χ^2/NDF : 82.3/45

All: -3.793 $\pm$ 1.343 χ^2/NDF : 141.7/86

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12725.398 $\pm$ 3.560 χ^2 /NDF: 663524.5/17

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF:438229.4/24

Right Out: 13648.788 $\pm$ 3.481 χ^2 /NDF: 1248619.9/20

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

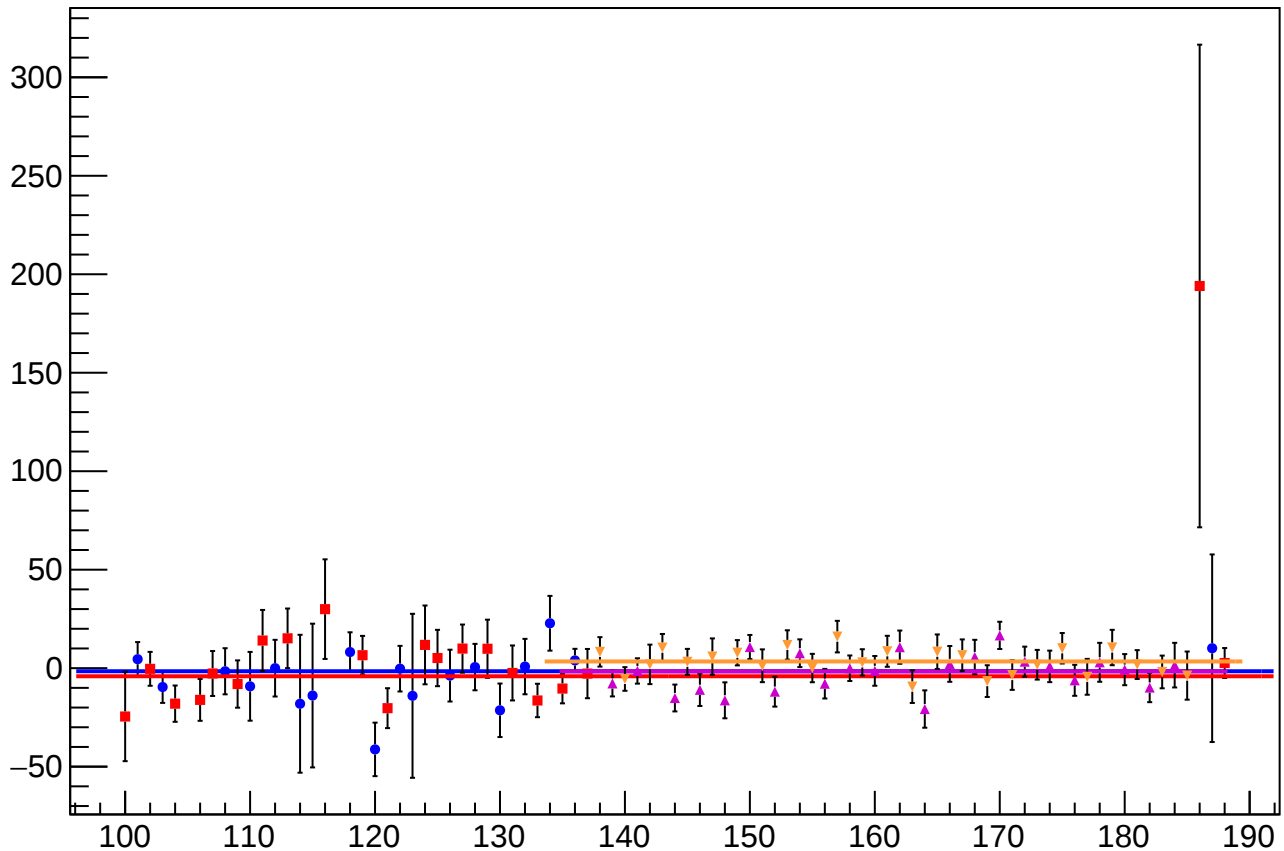
Right: 13197.452 $\pm$ 2.489 χ^2 /NDF: 1946533.0/38

In: 9284.378 $\pm$ 1.366 χ^2 /NDF:2129801.5/40

Out: 9326.480 $\pm$ 1.320 χ^2 /NDF:3487346.9/45

All: 9306.149 $\pm$ 0.949 χ^2 /NDF: 5617639.5/86

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.563 ± 2.806 χ^2/NDF : 17.8/17

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -4.113 ± 2.499 χ^2/NDF : 22.7/20

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

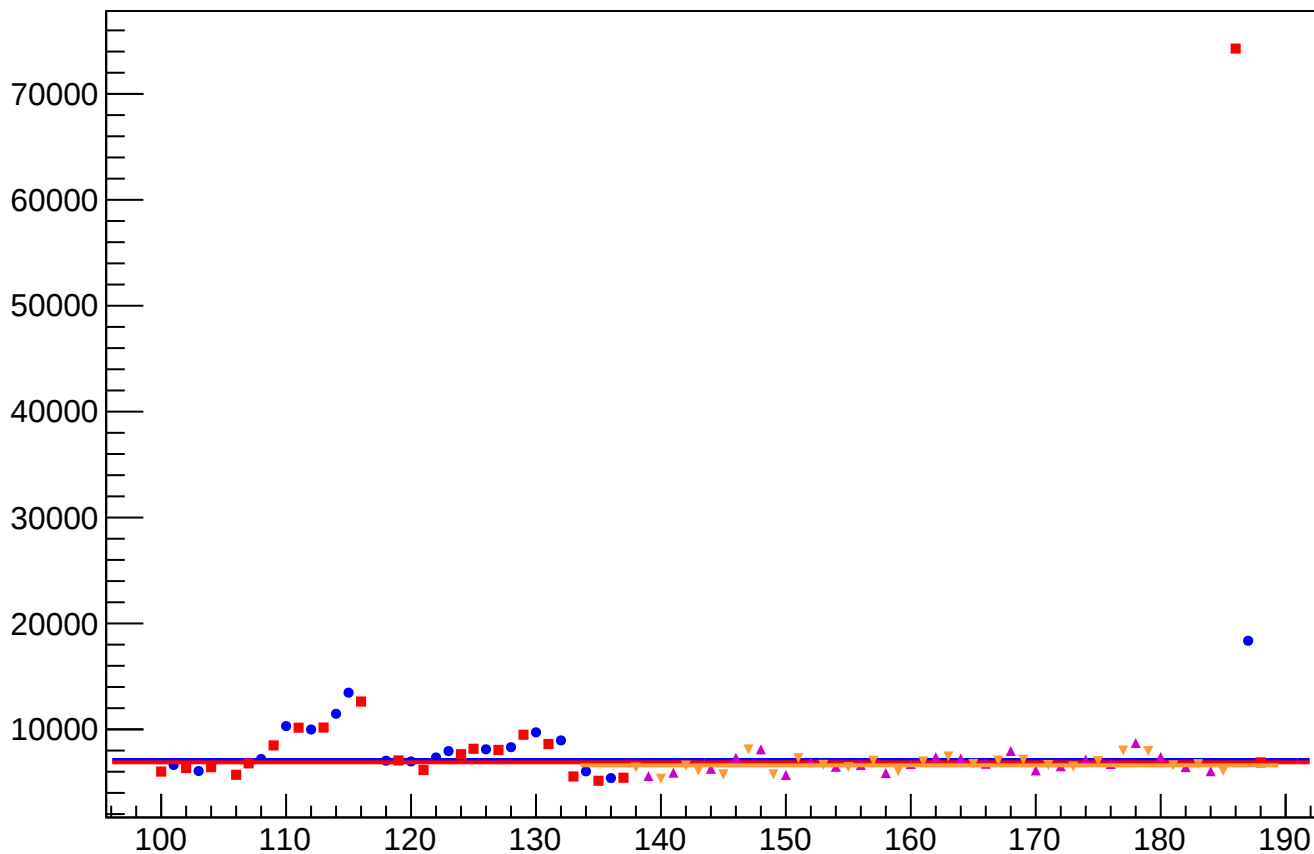
Right: -2.985 ± 1.866 χ^2/NDF : 41.0/38

In: -1.611 ± 1.389 χ^2/NDF : 51.3/40

Out: 1.316 ± 1.317 χ^2/NDF : 46.1/45

All: -0.070 ± 0.956 χ^2/NDF : 99.7/86

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7108.901 $\pm$ 1.984 χ^2/NDF : 713855.3/17

Left Out: 6607.100 $\pm$ 1.096 χ^2/NDF : 398416.1/24

Right Out: 6886.927 $\pm$ 1.767 χ^2/NDF : 1291772.3/20

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

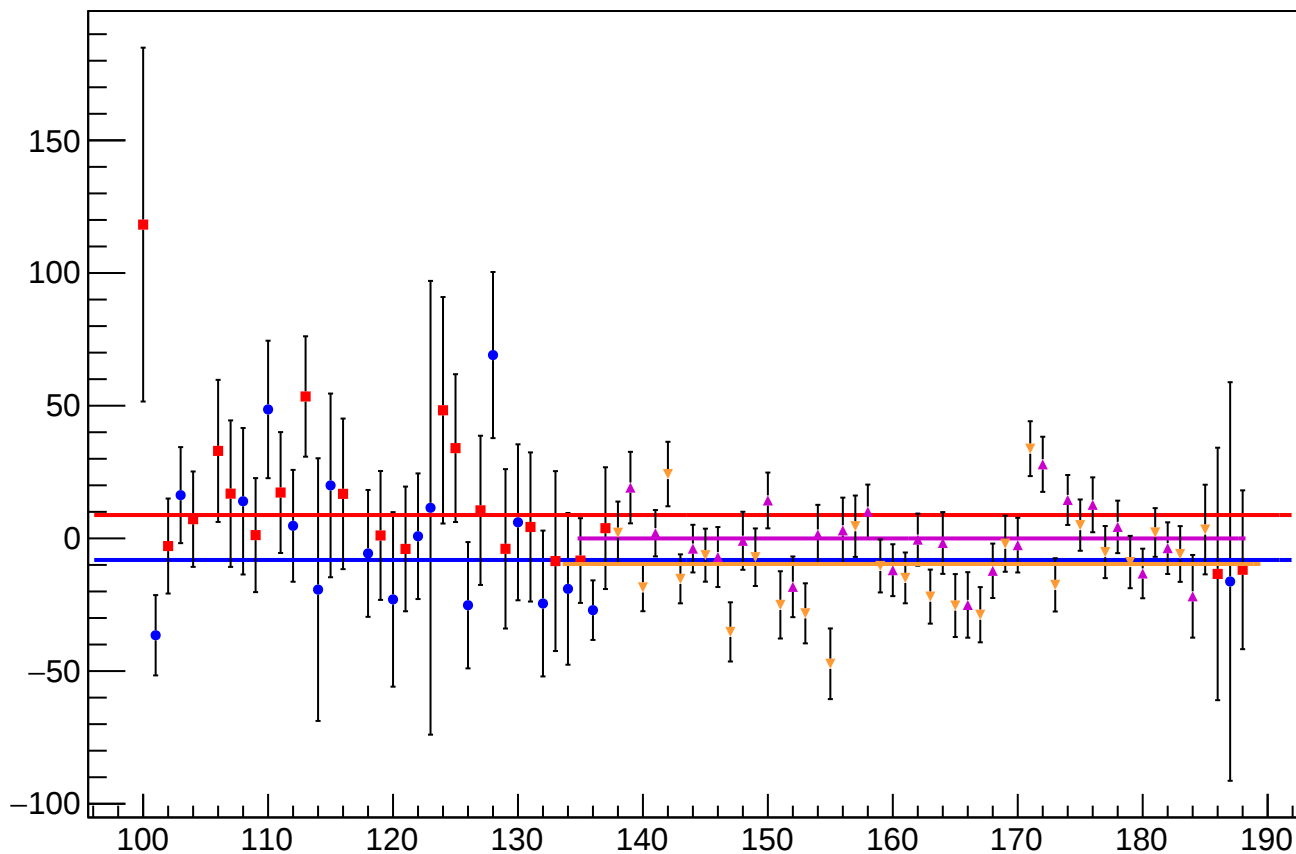
Right: 6985.112 $\pm$ 1.320 χ^2/NDF : 2012607.6/38

In: 6746.391 $\pm$ 0.982 χ^2/NDF : 1188361.4/40

Out: 6684.876 $\pm$ 0.932 χ^2/NDF : 1708296.0/45

All: 6714.002 $\pm$ 0.676 χ^2/NDF : 2898721.8/86

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -8.128 ± 5.512 $\chi^2/\text{NDF}: 22.5/17$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 8.805 ± 5.450 $\chi^2/\text{NDF}: 12.7/20$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

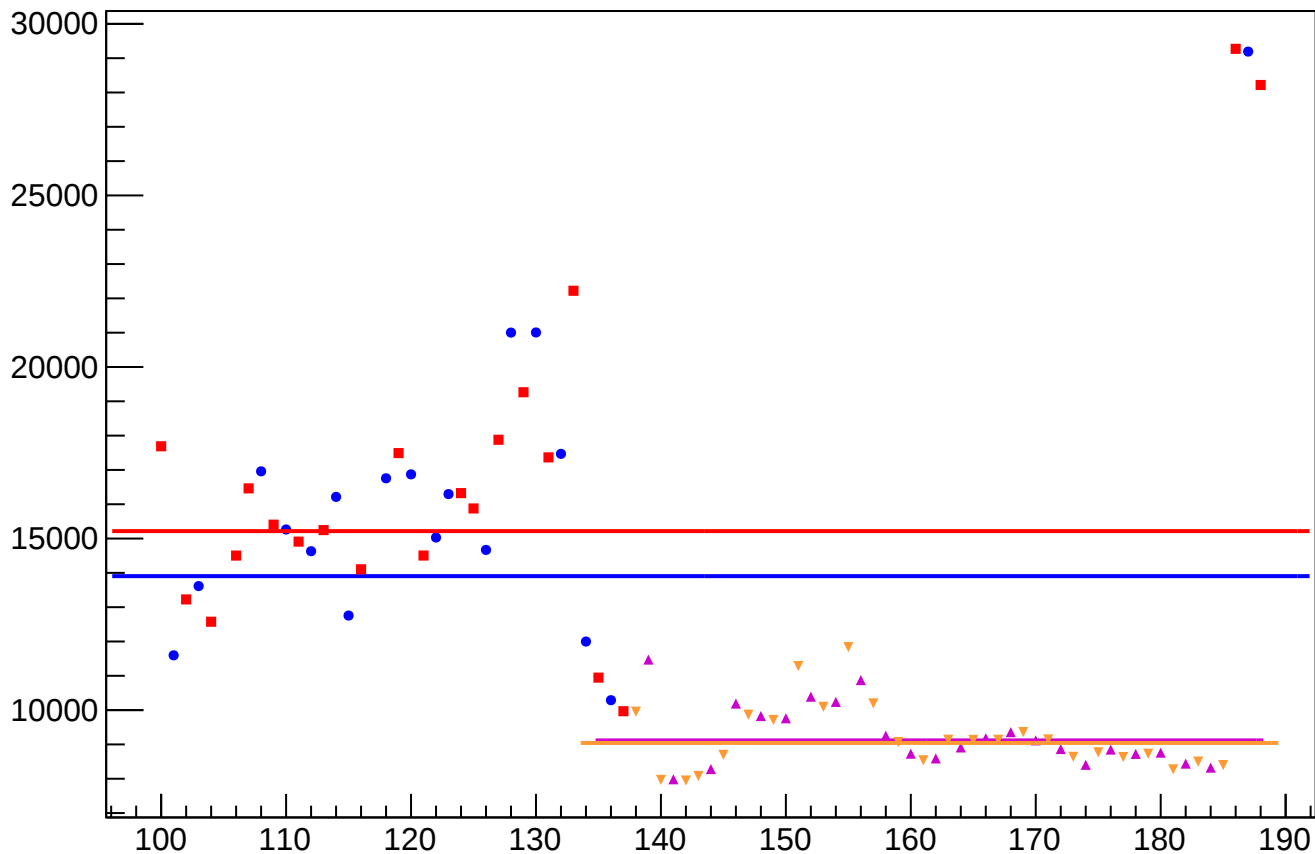
Right: 0.434 ± 3.875 $\chi^2/\text{NDF}: 39.9/38$

In: -1.127 ± 2.037 $\chi^2/\text{NDF}: 54.9/40$

Out: -7.227 ± 1.974 $\chi^2/\text{NDF}: 82.5/45$

All: -4.272 ± 1.418 $\chi^2/\text{NDF}: 142.0/86$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13904.630+/-3.897 χ^2/NDF : 691286.3/17

Left Out: 9043.485+/-1.498 χ^2/NDF : 328192.2/24

Right Out: 15216.854+/-3.854 χ^2/NDF : 1052920.6/20

Left In: 9116.921+/-1.550 χ^2/NDF : 277594.8/22

Left: 9078.947+/-1.077 χ^2/NDF : 606947.8/47

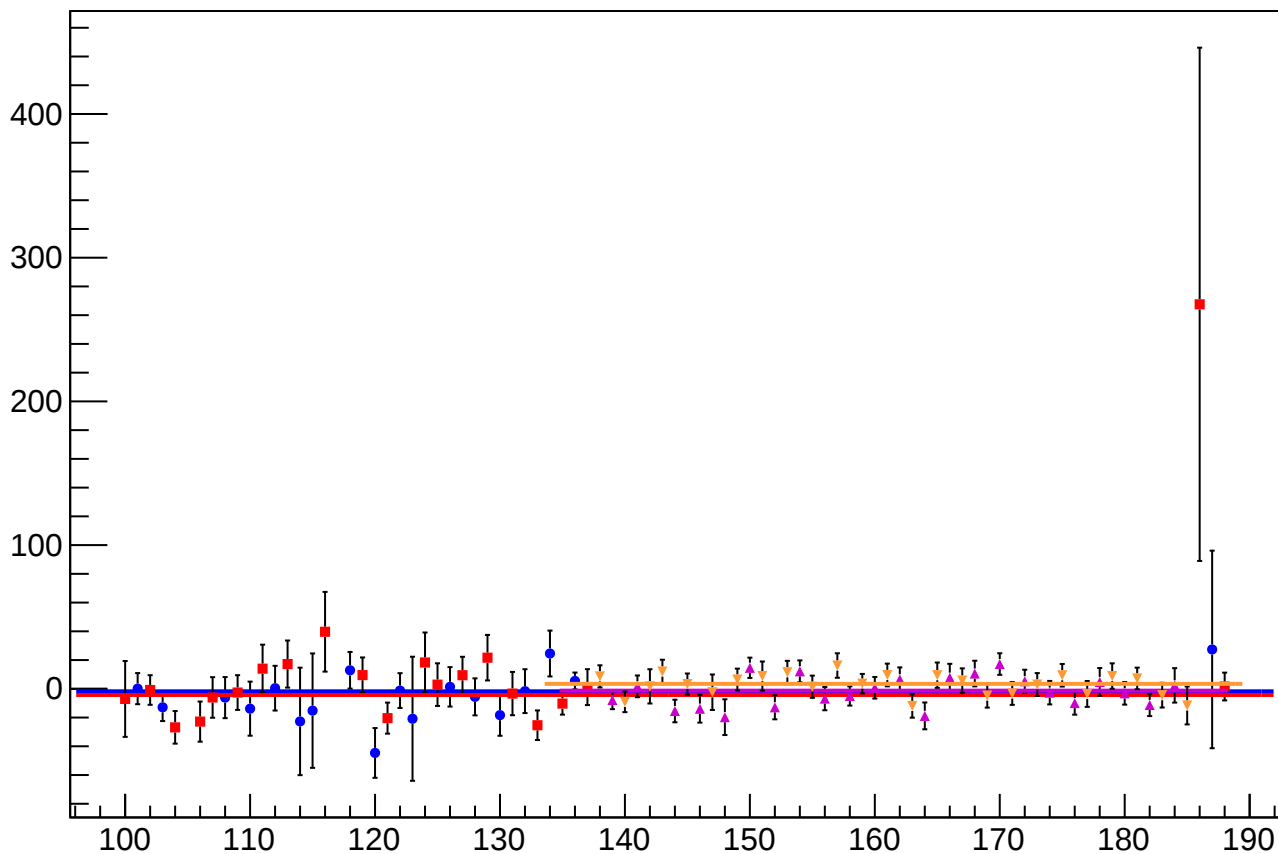
Right: 14568.121+/-2.740 χ^2/NDF : 1801527.0/38

In: 9770.758+/-1.440 χ^2/NDF : 2271892.9/40

Out: 9853.649+/-1.396 χ^2/NDF : 3610466.6/45

All: 9813.494+/-1.002 χ^2/NDF : 5884067.2/86

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.746 ± 3.109 χ^2/NDF : 15.9/17

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -4.292 ± 2.837 χ^2/NDF : 27.7/20

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

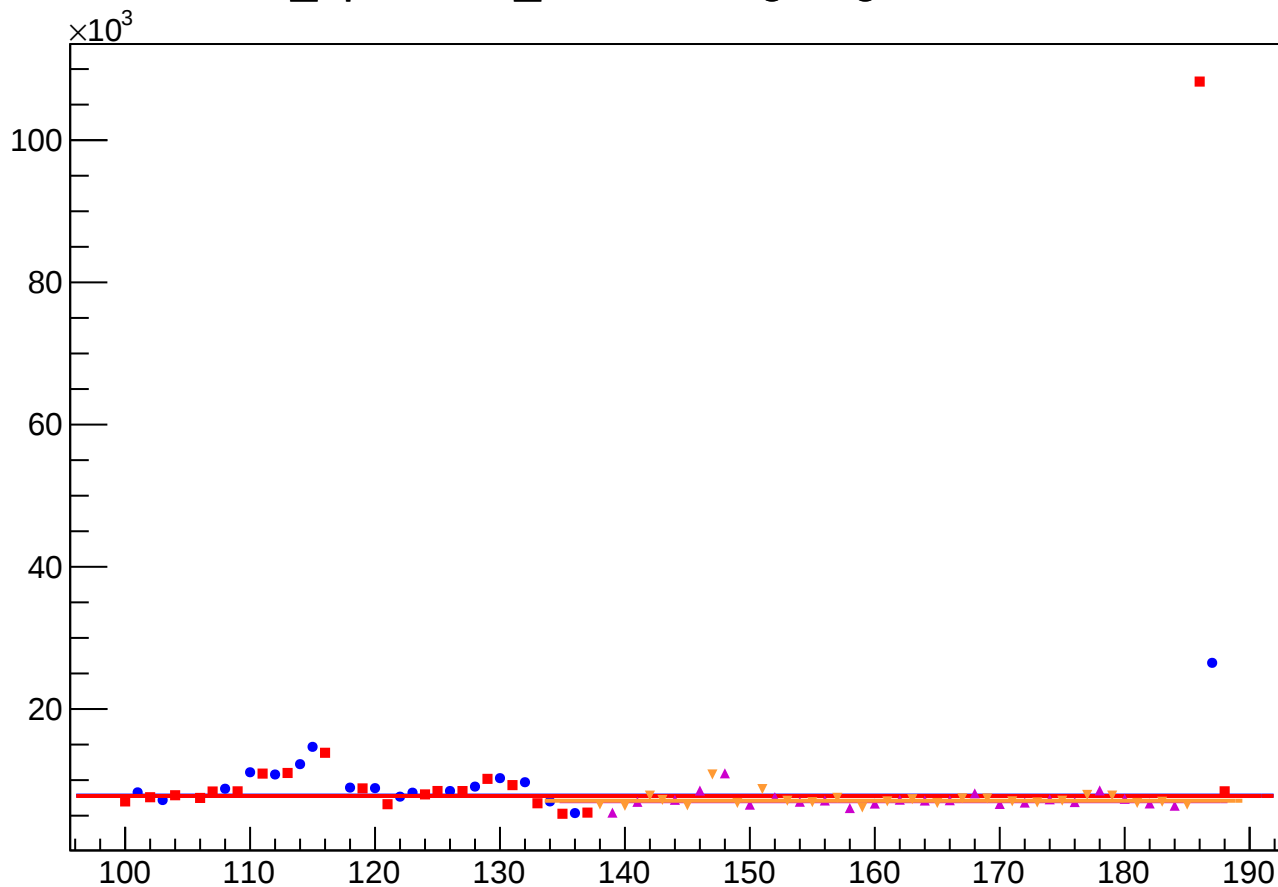
Right: -3.135 ± 2.096 χ^2/NDF : 44.0/38

In: -1.396 ± 1.492 χ^2/NDF : 52.4/40

Out: 1.457 ± 1.437 χ^2/NDF : 52.1/45

All: 0.085 ± 1.035 χ^2/NDF : 106.5/86

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7823.764 $\pm$ 2.198 χ^2/NDF : 885937.6/17

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 7770.615 $\pm$ 2.006 χ^2/NDF : 1316721.8/20

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

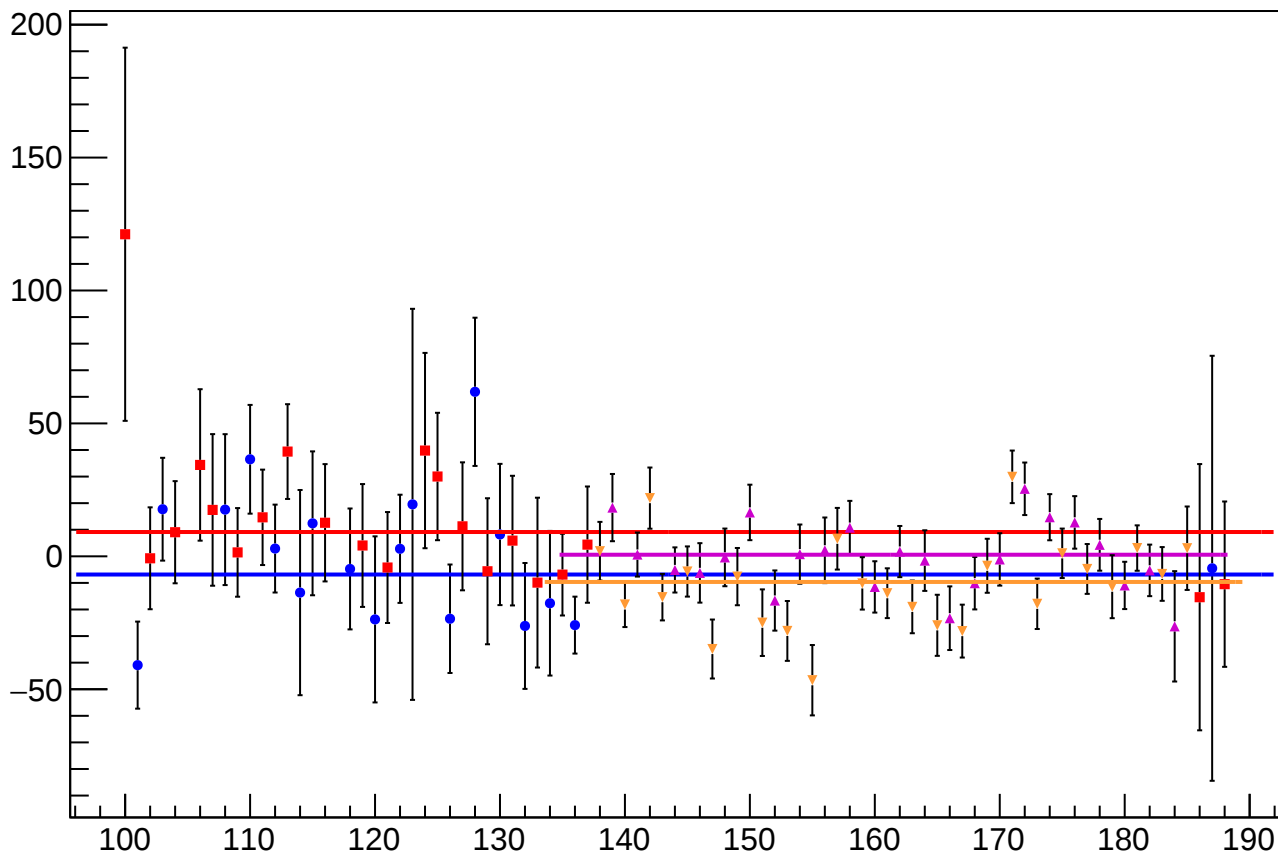
Right: 7794.768 $\pm$ 1.482 χ^2/NDF : 2202978.4/38

In: 7215.699 $\pm$ 1.055 χ^2/NDF : 1526378.2/40

Out: 7270.986 $\pm$ 1.016 χ^2/NDF : 1782662.4/45

All: 7244.389 $\pm$ 0.732 χ^2/NDF : 3310465.3/86

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.846 $\pm$ 5.103 χ^2/NDF : 23.8/17

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 9.145 $\pm$ 4.993 χ^2/NDF : 11.2/20

Left In: 0.599 $\pm$ 2.135 χ^2/NDF : 29.7/22

Left: -4.710 $\pm$ 1.481 χ^2/NDF : 99.2/47

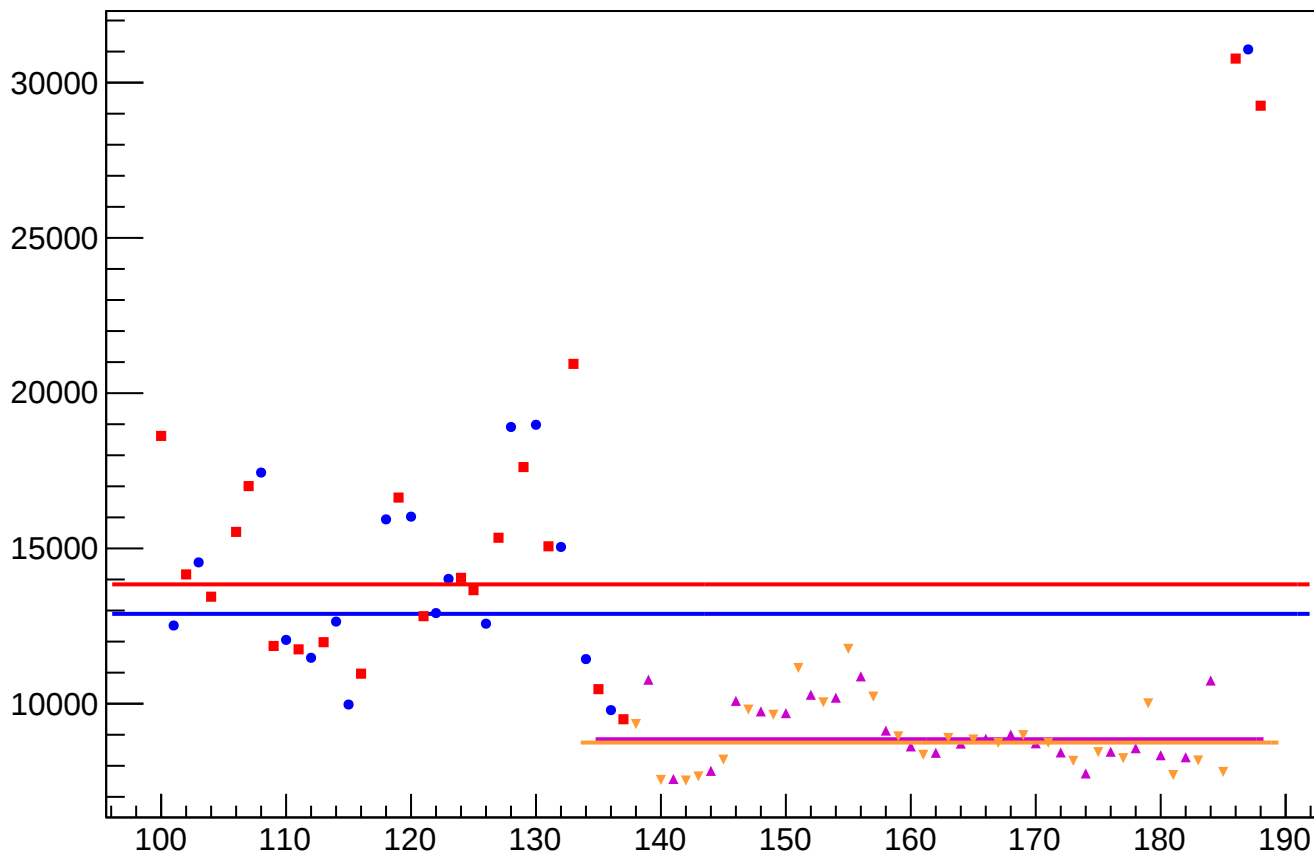
Right: 1.323 $\pm$ 3.569 χ^2/NDF : 40.0/38

In: -0.510 $\pm$ 1.970 χ^2/NDF : 55.2/40

Out: -6.914 $\pm$ 1.902 χ^2/NDF : 81.0/45

All: -3.823 $\pm$ 1.368 χ^2/NDF : 141.7/86

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12892.964 $\pm$ 3.608 χ^2 /NDF: 656880.8/17

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF: 463394.1/24

Right Out: 13842.906 $\pm$ 3.530 χ^2 /NDF: 1232506.3/20

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

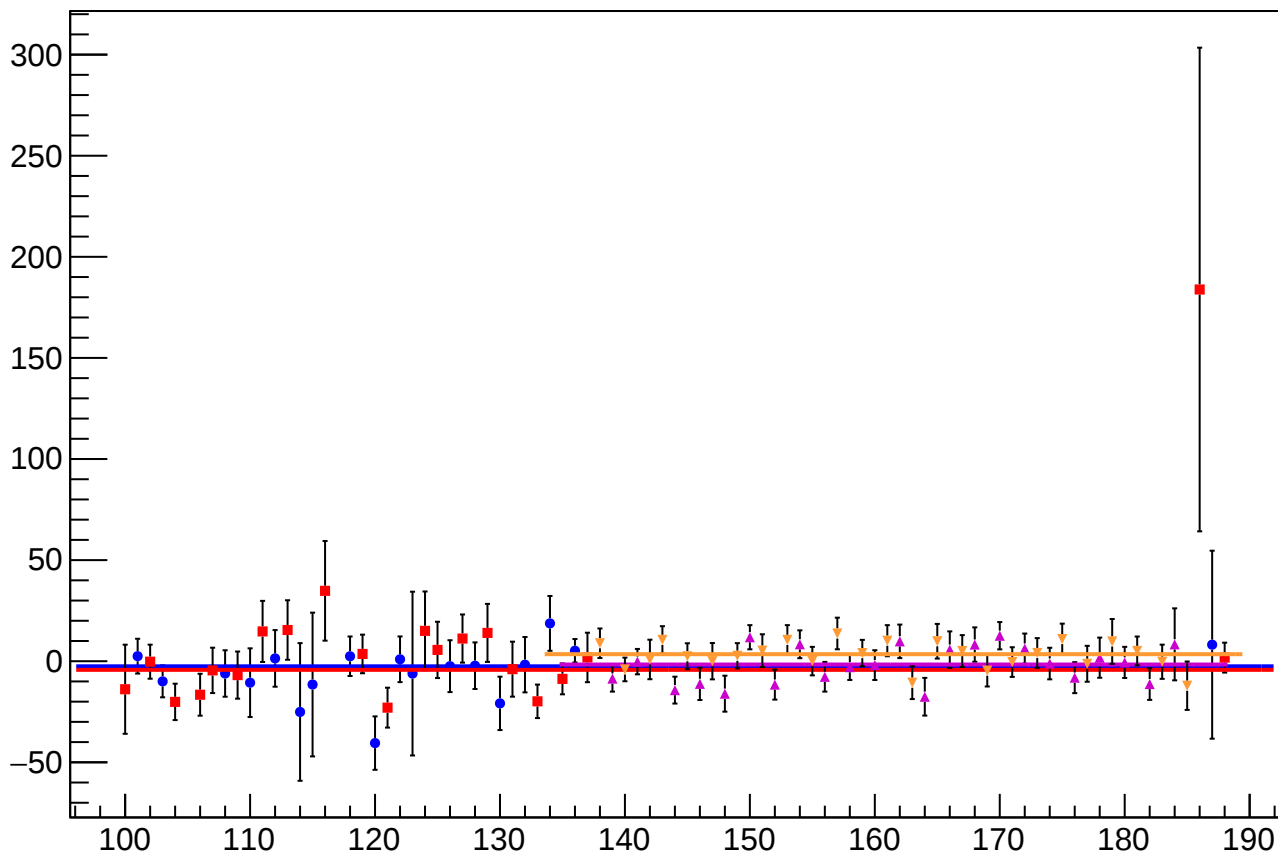
Right: 13378.264 $\pm$ 2.523 χ^2 /NDF: 1924800.3/38

In: 9457.135 $\pm$ 1.393 χ^2 /NDF: 2090006.9/40

Out: 9487.833 $\pm$ 1.345 χ^2 /NDF: 3476009.6/45

All: 9473.018 $\pm$ 0.967 χ^2 /NDF: 5566267.9/86

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.528 ± 2.747 χ^2/NDF : 17.0/17

Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24

Right Out: -4.265 ± 2.448 χ^2/NDF : 27.2/20

Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47

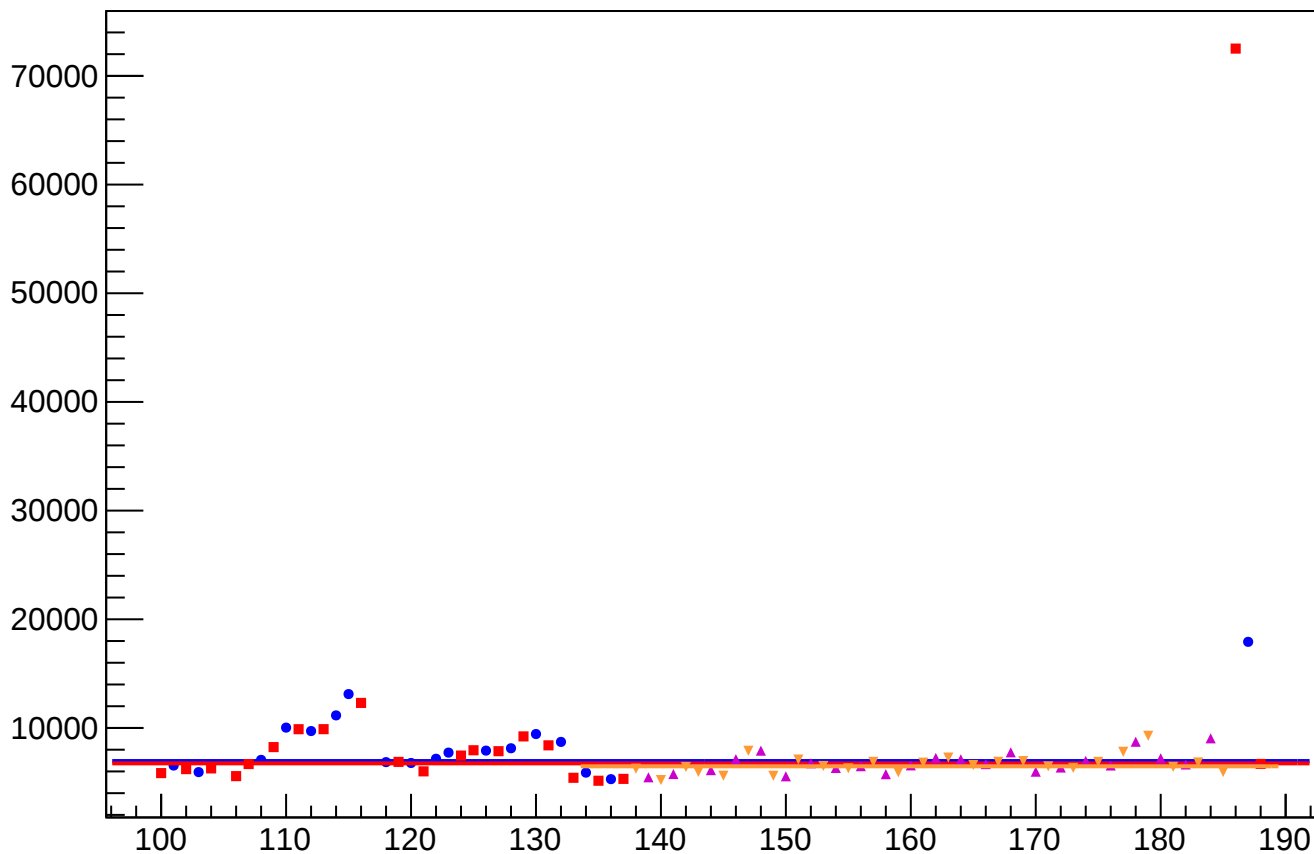
Right: -3.496 ± 1.827 χ^2/NDF : 44.4/38

In: -1.859 ± 1.368 χ^2/NDF : 50.8/40

Out: 1.311 ± 1.294 χ^2/NDF : 50.2/45

All: -0.186 ± 0.940 χ^2/NDF : 103.8/86

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6956.069 $\pm$ 1.942 χ^2/NDF : 699779.8/17

Left Out: 6471.976 $\pm$ 1.078 χ^2/NDF : 490282.9/24

Right Out: 6743.656 $\pm$ 1.731 χ^2/NDF : 1262871.5/20

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

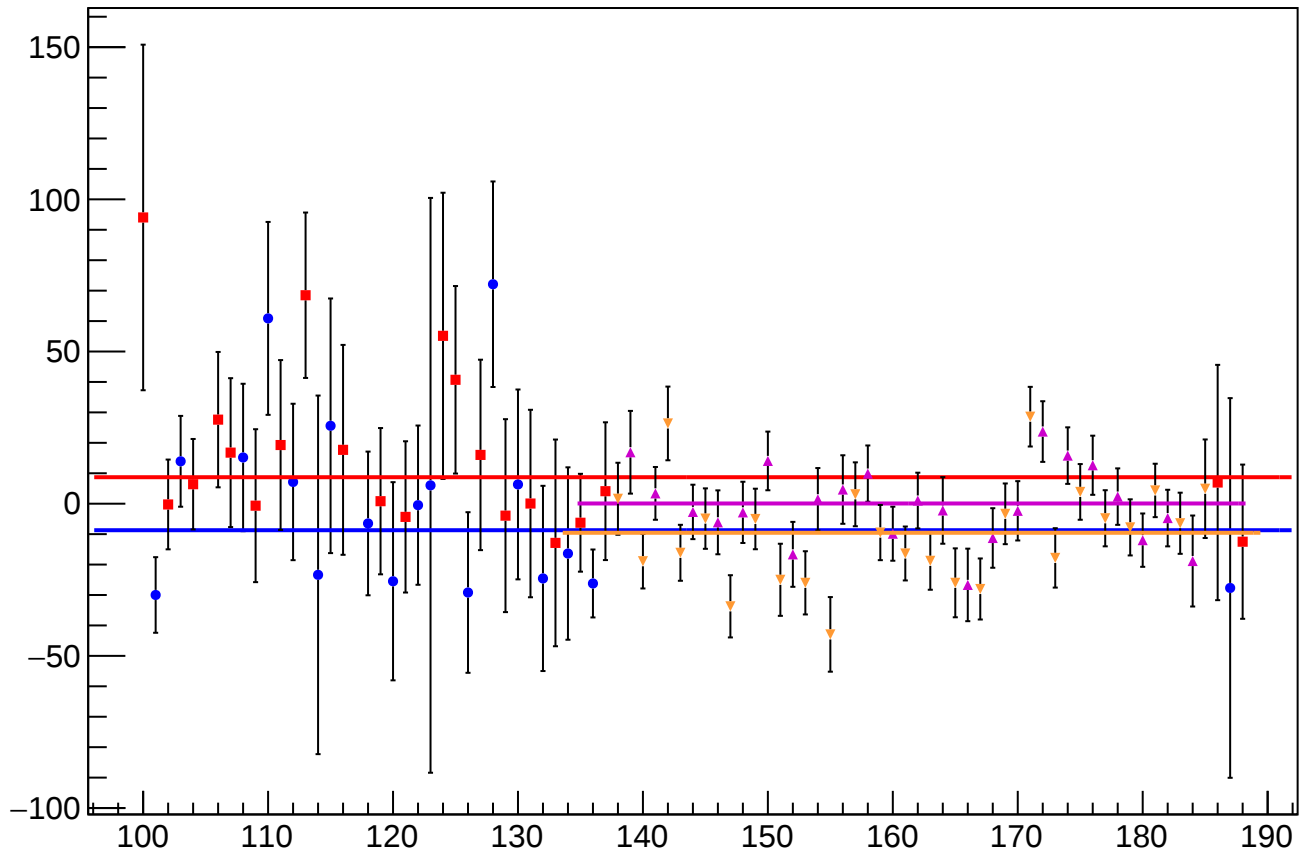
Right: 6837.656 $\pm$ 1.292 χ^2/NDF : 1969317.4/38

In: 6629.663 $\pm$ 0.967 χ^2/NDF : 1217366.5/40

Out: 6547.902 $\pm$ 0.915 χ^2/NDF : 1770910.0/45

All: 6586.501 $\pm$ 0.665 χ^2/NDF : 2992046.6/86

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.714 ± 5.398 $\chi^2/\text{NDF}: 22.0/17$

Left Out: -9.554 ± 2.012 $\chi^2/\text{NDF}: 59.5/24$

Right Out: 8.701 ± 5.343 $\chi^2/\text{NDF}: 13.4/20$

Left In: 0.072 ± 2.073 $\chi^2/\text{NDF}: 29.8/22$

Left: -4.885 ± 1.444 $\chi^2/\text{NDF}: 100.5/47$

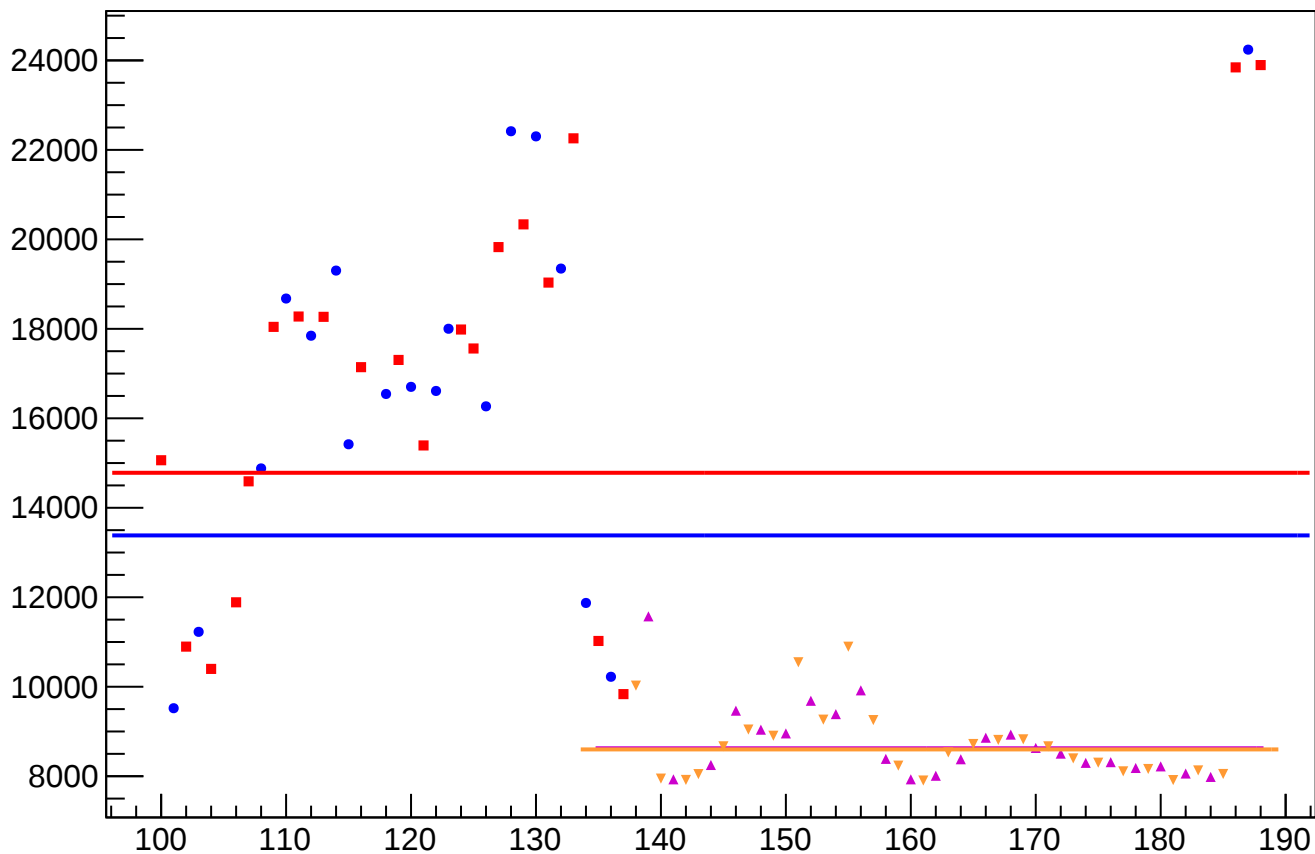
Right: 0.084 ± 3.797 $\chi^2/\text{NDF}: 40.7/38$

In: -1.057 ± 1.935 $\chi^2/\text{NDF}: 54.1/40$

Out: -7.287 ± 1.883 $\chi^2/\text{NDF}: 83.2/45$

All: -4.258 ± 1.349 $\chi^2/\text{NDF}: 142.6/86$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13382.362 $\pm$ 3.817 χ^2 /NDF: 1109938.3/17

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF:249070.5/24

Right Out: 14782.376 $\pm$ 3.778 χ^2 /NDF: 1324935.1/20

Left In: 8625.233 $\pm$ 1.466 χ^2 /NDF:237310.9/22

Left: 8611.717 $\pm$ 1.021 χ^2 /NDF: 486546.6/47

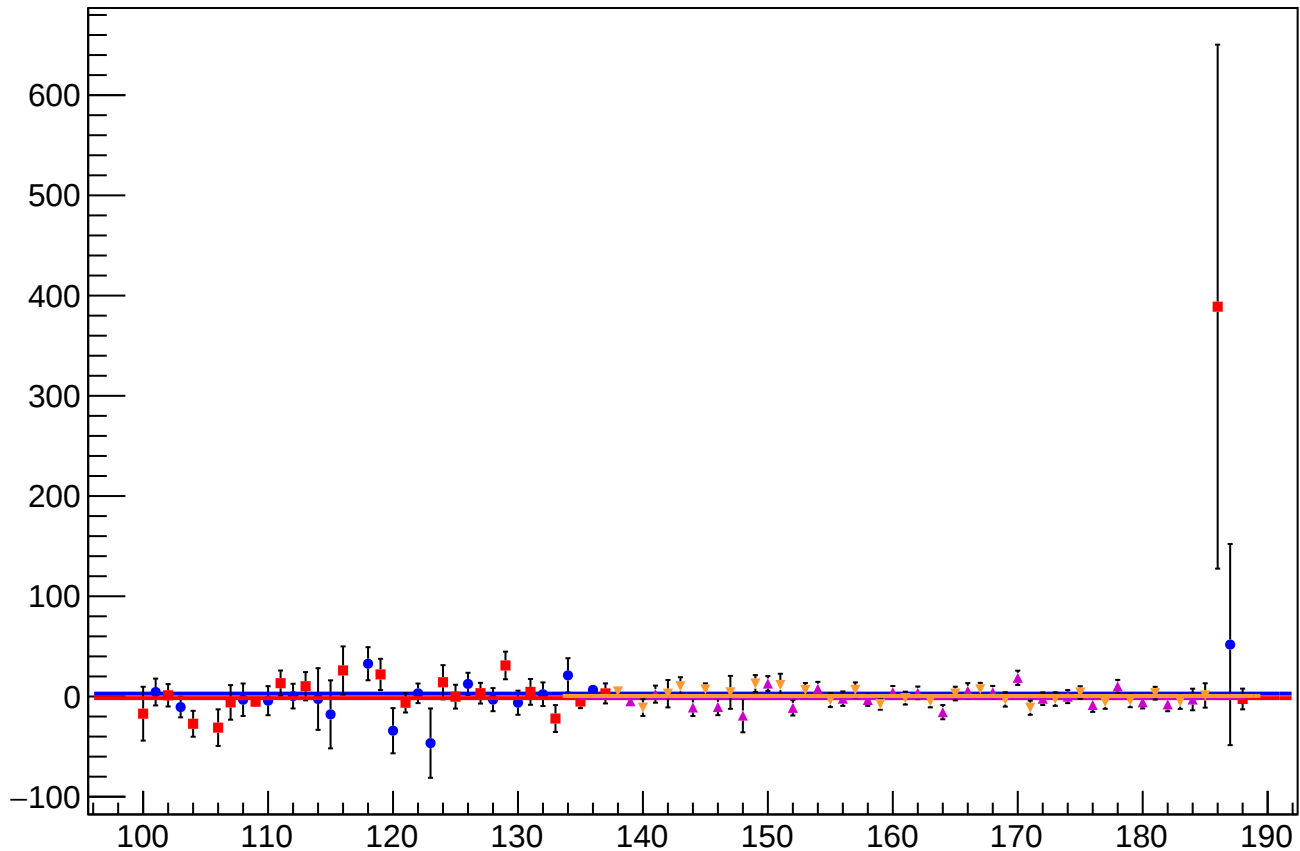
Right: 14089.635 $\pm$ 2.685 χ^2 /NDF: 2502829.2/38

In: 9236.436 $\pm$ 1.368 χ^2 /NDF:2700797.1/40

Out: 9366.852 $\pm$ 1.331 χ^2 /NDF:3920348.1/45

All: 9303.430 $\pm$ 0.954 χ^2 /NDF: 6625812.2/86

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.857 ± 2.761 $\chi^2/\text{NDF}: 14.2/17$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -1.655 ± 2.381 $\chi^2/\text{NDF}: 25.5/20$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

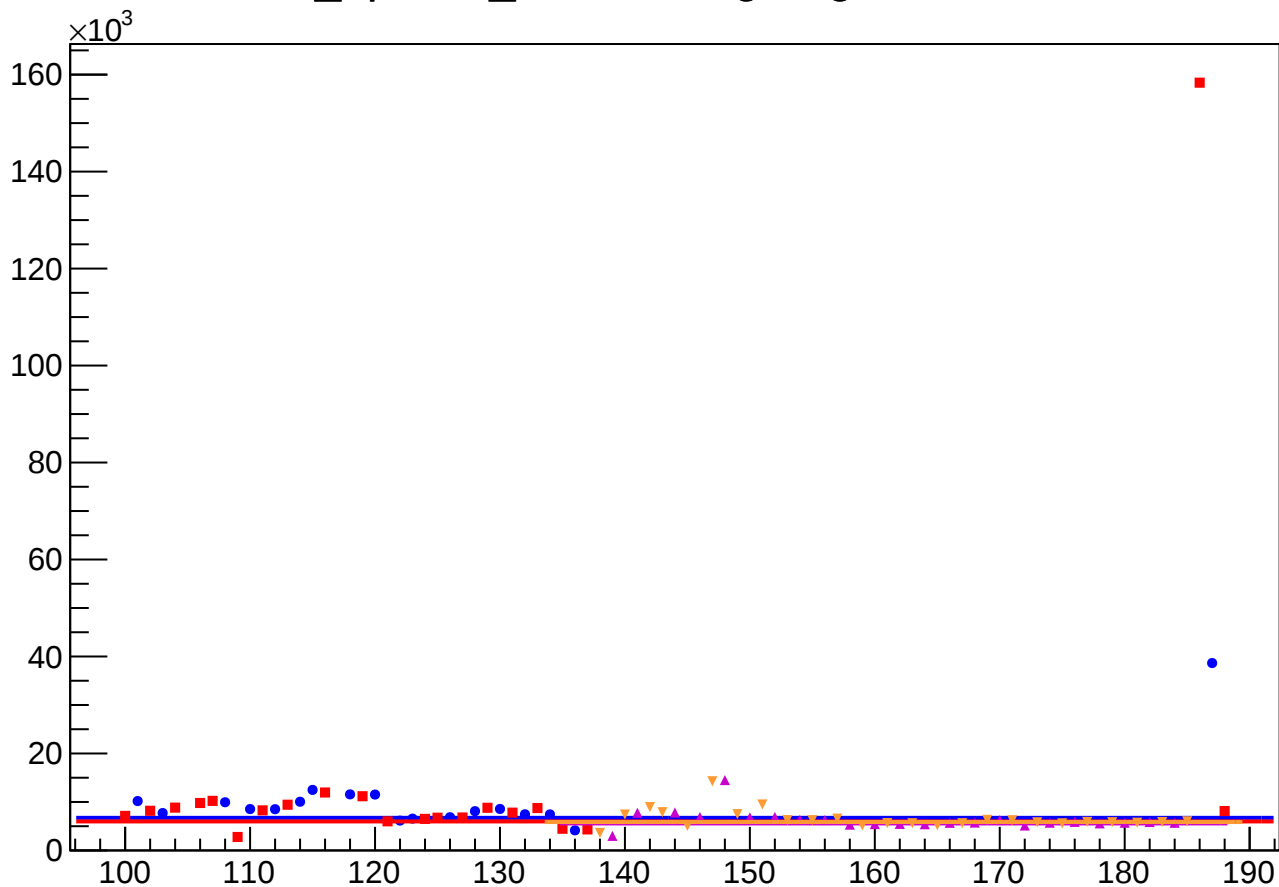
Right: 0.269 ± 1.803 $\chi^2/\text{NDF}: 41.2/38$

In: -0.255 ± 1.246 $\chi^2/\text{NDF}: 48.3/40$

Out: -0.043 ± 1.218 $\chi^2/\text{NDF}: 45.6/45$

All: -0.147 ± 0.871 $\chi^2/\text{NDF}: 93.9/86$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6726.971 ± 1.953 $\chi^2/\text{NDF}: 1592114.3/17$

Left Out: 5860.605 ± 1.002 $\chi^2/\text{NDF}: 1690049.2/24$

Right Out: 5982.770 ± 1.684 $\chi^2/\text{NDF}: 3053825.9/20$

Left In: 5571.330 ± 0.987 $\chi^2/\text{NDF}: 2162788.3/22$

Left: 5713.698 ± 0.703 $\chi^2/\text{NDF}: 3895130.2/47$

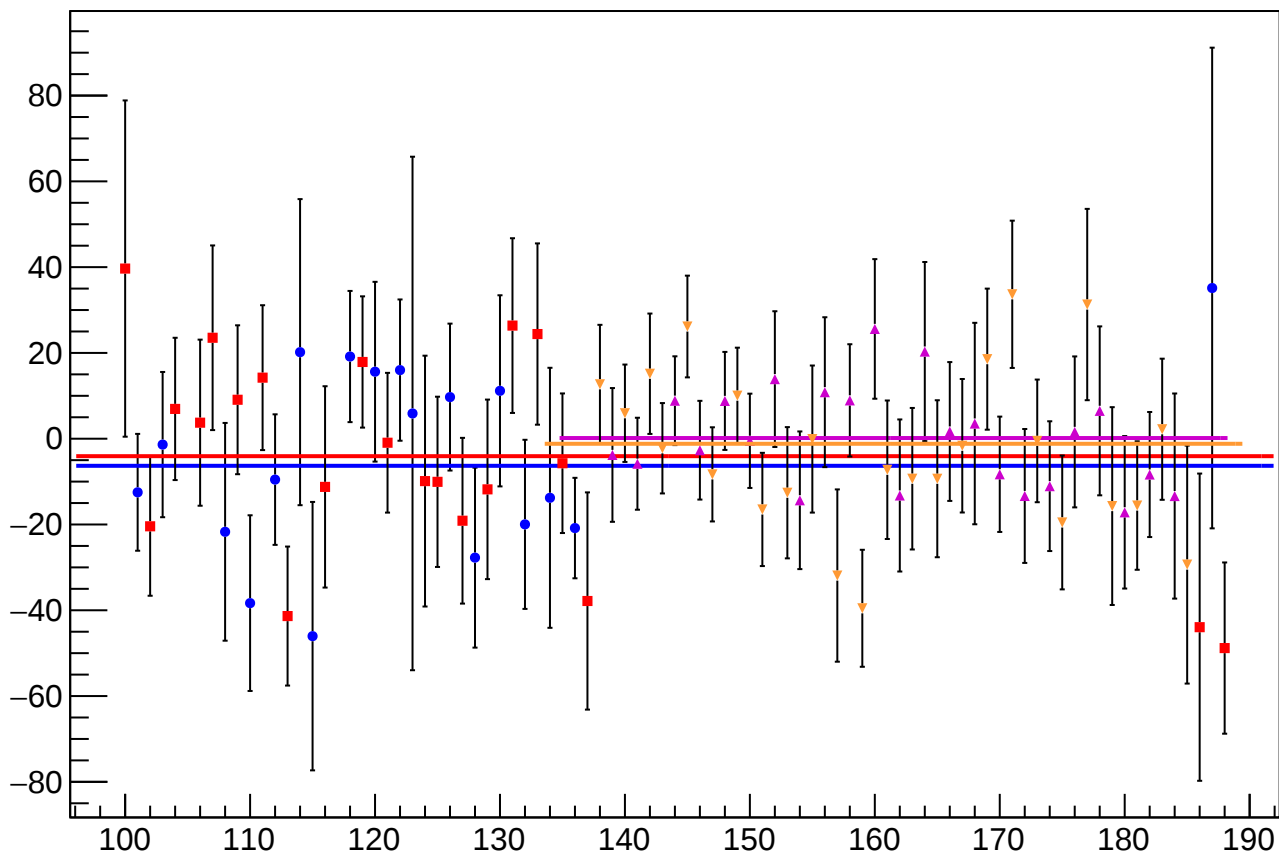
Right: 6300.154 ± 1.275 $\chi^2/\text{NDF}: 4729248.8/38$

In: 5806.433 ± 0.881 $\chi^2/\text{NDF}: 4033914.3/40$

Out: 5892.572 ± 0.861 $\chi^2/\text{NDF}: 4747761.5/45$

All: 5850.461 ± 0.616 $\chi^2/\text{NDF}: 8786565.2/86$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.318 ± 4.544 $\chi^2/\text{NDF}: 16.2/17$

Left Out: -1.182 ± 2.939 $\chi^2/\text{NDF}: 33.7/24$

Right Out: -4.073 ± 4.250 $\chi^2/\text{NDF}: 26.7/20$

Left In: 0.157 ± 3.058 $\chi^2/\text{NDF}: 11.5/22$

Left: -0.539 ± 2.119 $\chi^2/\text{NDF}: 45.3/47$

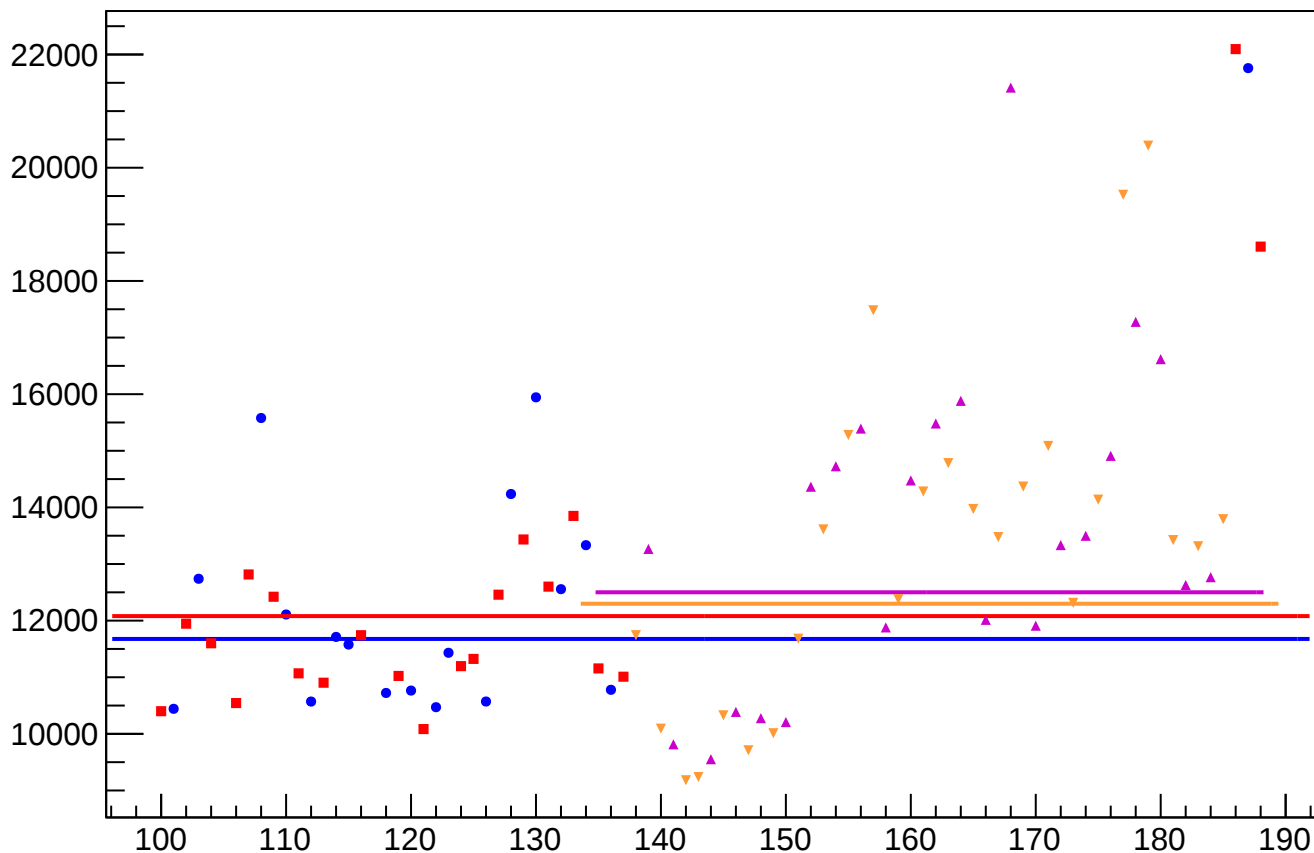
Right: -5.120 ± 3.104 $\chi^2/\text{NDF}: 43.1/38$

In: -1.861 ± 2.537 $\chi^2/\text{NDF}: 29.1/40$

Out: -2.117 ± 2.417 $\chi^2/\text{NDF}: 60.7/45$

All: -1.995 ± 1.750 $\chi^2/\text{NDF}: 89.9/86$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11676.594+/-3.213

χ^2/NDF : 303322.5/17

Left: 12395.720+/-1.498 χ^2/NDF : 2868458.0/47

Right: 11891.812+/-2.195 χ^2/NDF : 799982.9/38

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

In: 12243.896+/-1.794 χ^2/NDF : 1706495.2/40

Out: 12227.967+/-1.709 χ^2/NDF : 1997856.7/45

Right Out: 12080.074+/-3.005

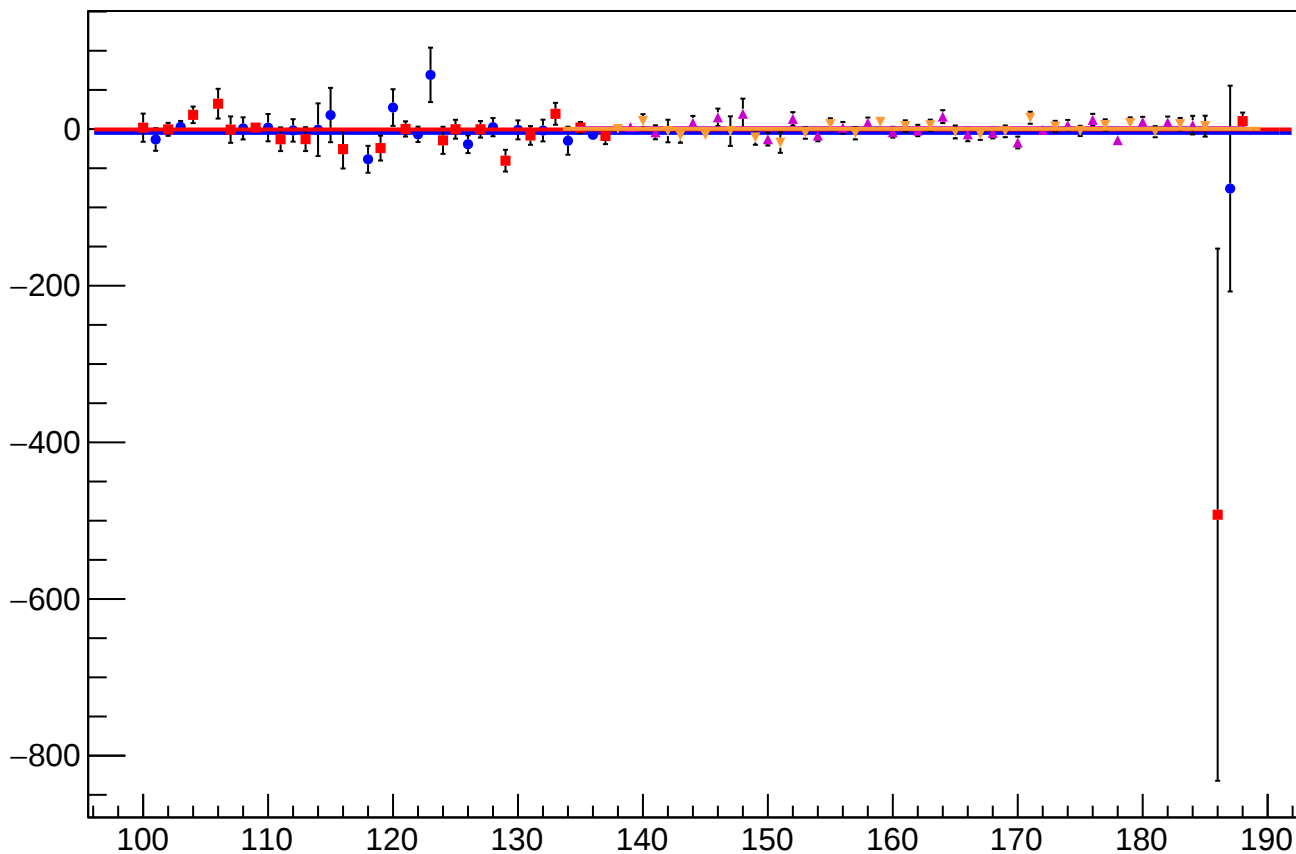
χ^2/NDF : 488250.5/20

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

All: 12235.547+/-1.237 χ^2/NDF : 3704393.2/8

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.808 ± 2.787 χ^2/NDF : 15.6/17

Left Out: 0.353 ± 1.433 χ^2/NDF : 19.1/24

Right Out: -0.523 ± 2.375 χ^2/NDF : 26.1/20

Left In: 1.165 ± 1.371 χ^2/NDF : 33.6/22

Left: 0.777 ± 0.991 χ^2/NDF : 52.9/47

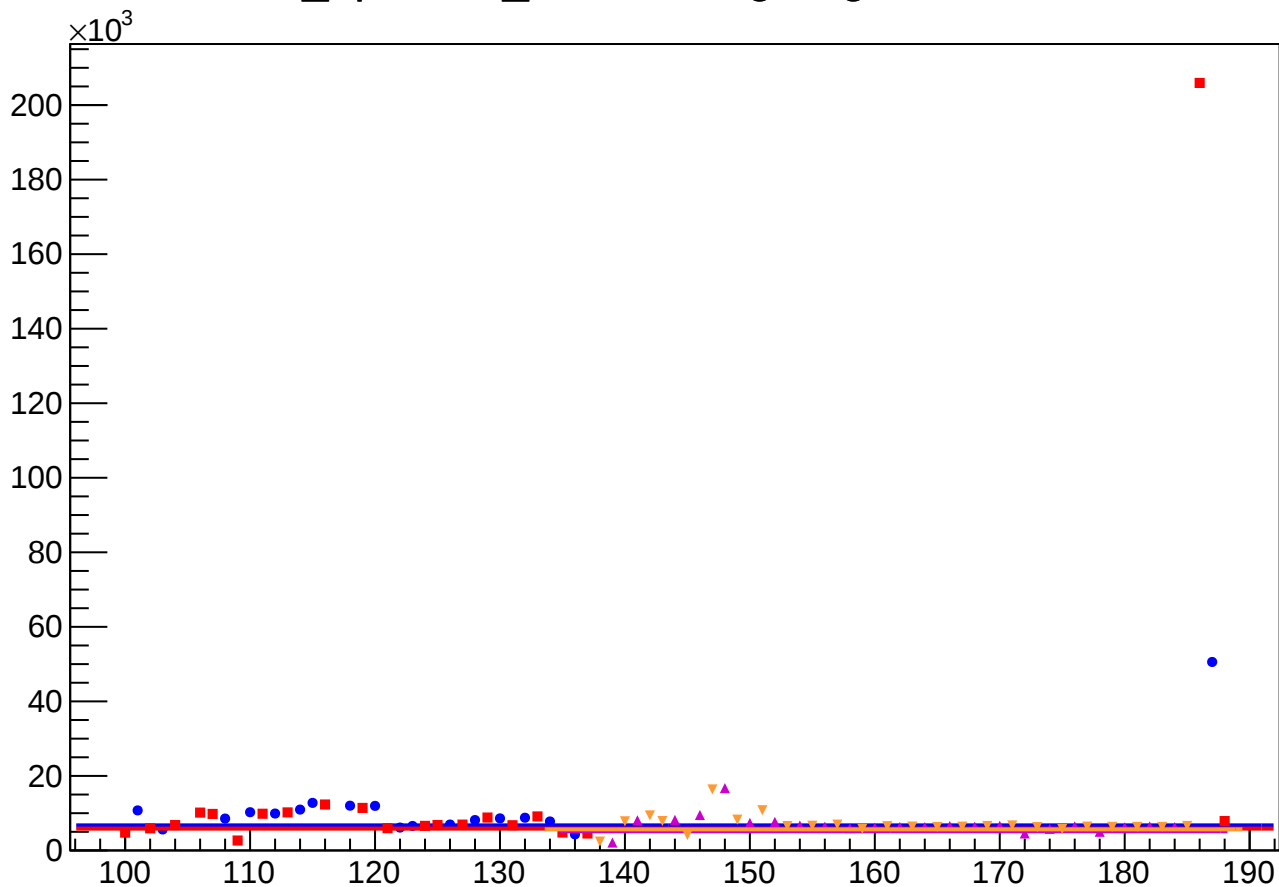
Right: -2.326 ± 1.808 χ^2/NDF : 43.1/38

In: 0.000 ± 1.230 χ^2/NDF : 52.9/40

Out: 0.119 ± 1.227 χ^2/NDF : 45.4/45

All: 0.060 ± 0.869 χ^2/NDF : 98.2/86

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6731.523 ± 1.971 $\chi^2/\text{NDF}: 1669210.4/17$

Left Out: 5659.441 ± 1.014 $\chi^2/\text{NDF}: 4128583.6/24$

Right Out: 5861.366 ± 1.679 $\chi^2/\text{NDF}: 2935016.9/20$

Left In: 5137.772 ± 0.970 $\chi^2/\text{NDF}: 5495609.7/22$

Left: 5387.078 ± 0.701 $\chi^2/\text{NDF}: 9762498.7/47$

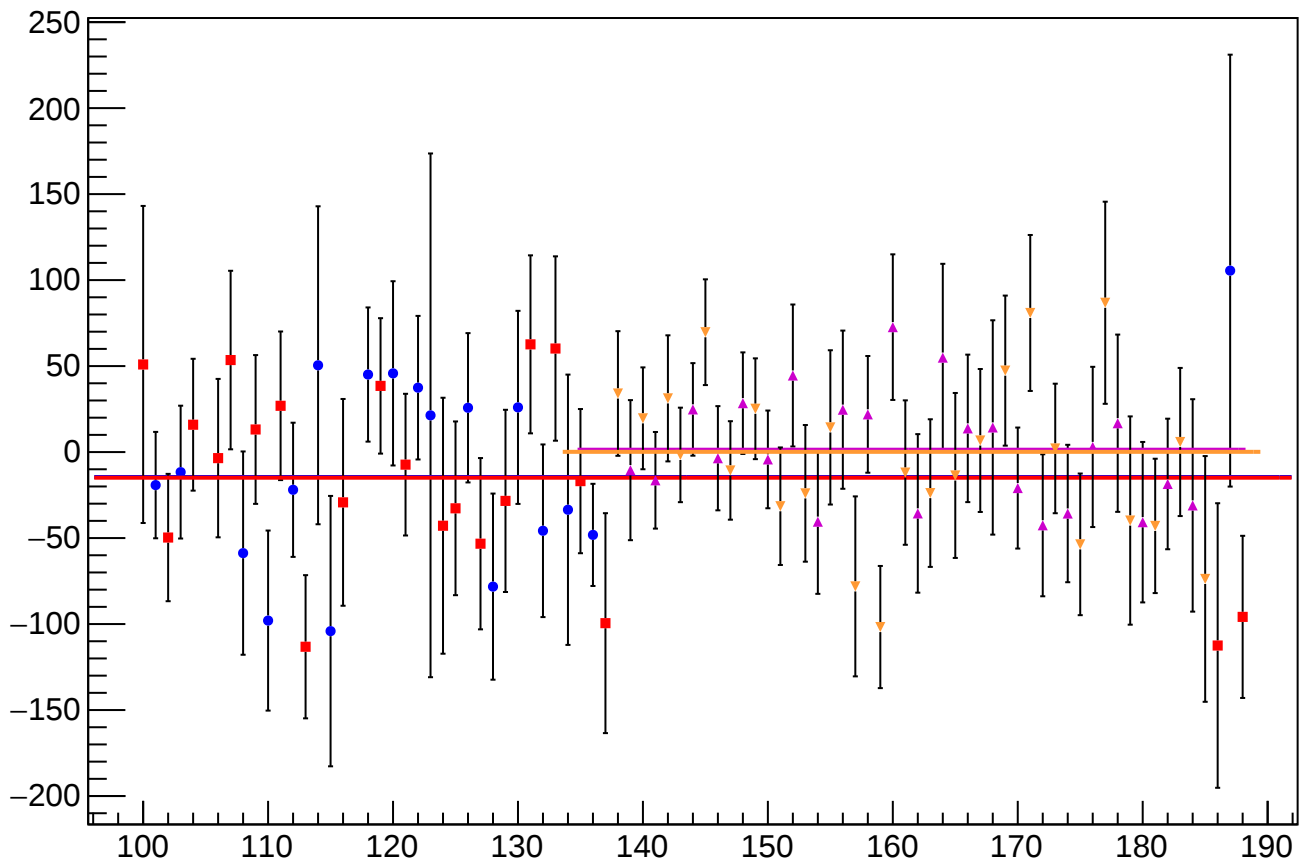
Right: 6227.455 ± 1.278 $\chi^2/\text{NDF}: 4717188.8/38$

In: 5448.492 ± 0.870 $\chi^2/\text{NDF}: 7691445.2/40$

Out: 5713.359 ± 0.868 $\chi^2/\text{NDF}: 7074198.3/45$

All: 5581.278 ± 0.614 $\chi^2/\text{NDF}: 14812102.9/98$

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -14.499 ± 11.272 χ^2/NDF : 15.6/17

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -14.900 ± 10.546 χ^2/NDF : 23.9/20

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

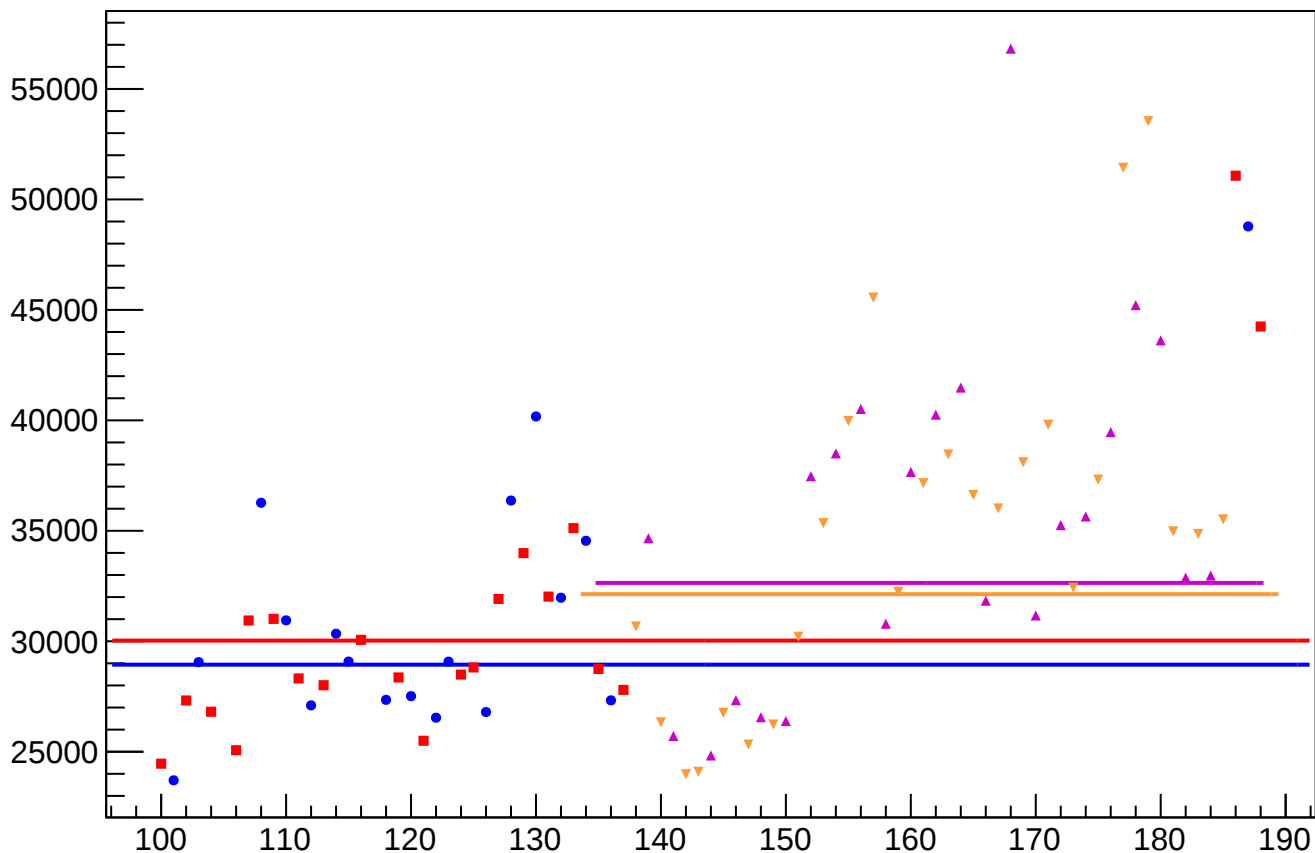
Right: -14.713 ± 7.701 χ^2/NDF : 39.5/38

In: -3.935 ± 6.519 χ^2/NDF : 30.2/40

Out: -5.073 ± 6.210 χ^2/NDF : 56.5/45

All: -4.532 ± 4.496 χ^2/NDF : 86.7/86

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28940.354 $\pm$ 7.970

χ^2/NDF : 303289.6/17

Left Out: 32132.314 $\pm$ 5.433

χ^2/NDF : 1540079.4/24

Right Out: 30030.493 $\pm$ 7.457

χ^2/NDF : 445336.3/20

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

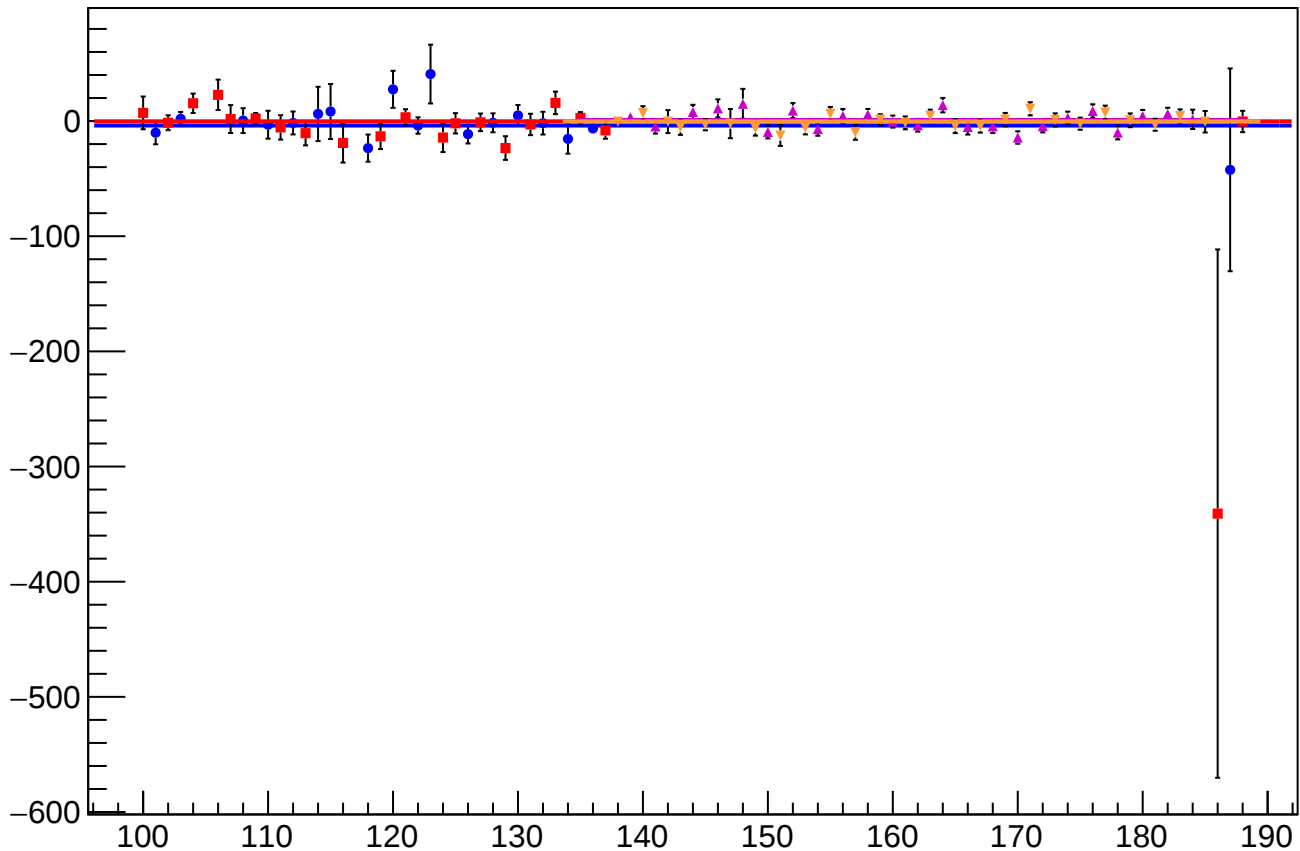
Right: 29521.645 $\pm$ 5.445 χ^2/NDF : 758601.3/38

In: 31403.426 $\pm$ 4.609 χ^2/NDF : 1848944.9/40

Out: 31403.522 $\pm$ 4.391 χ^2/NDF : 2037312.1/45

All: 31403.476 $\pm$ 3.179 χ^2/NDF : 3886257.0/8

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.881 ± 2.013 χ^2/NDF : 15.1/17

Left Out: -0.312 ± 1.172 χ^2/NDF : 17.6/24

Right Out: -0.216 ± 1.858 χ^2/NDF : 24.1/20

Left In: 0.908 ± 1.142 χ^2/NDF : 36.2/22

Left: 0.313 ± 0.818 χ^2/NDF : 54.4/47

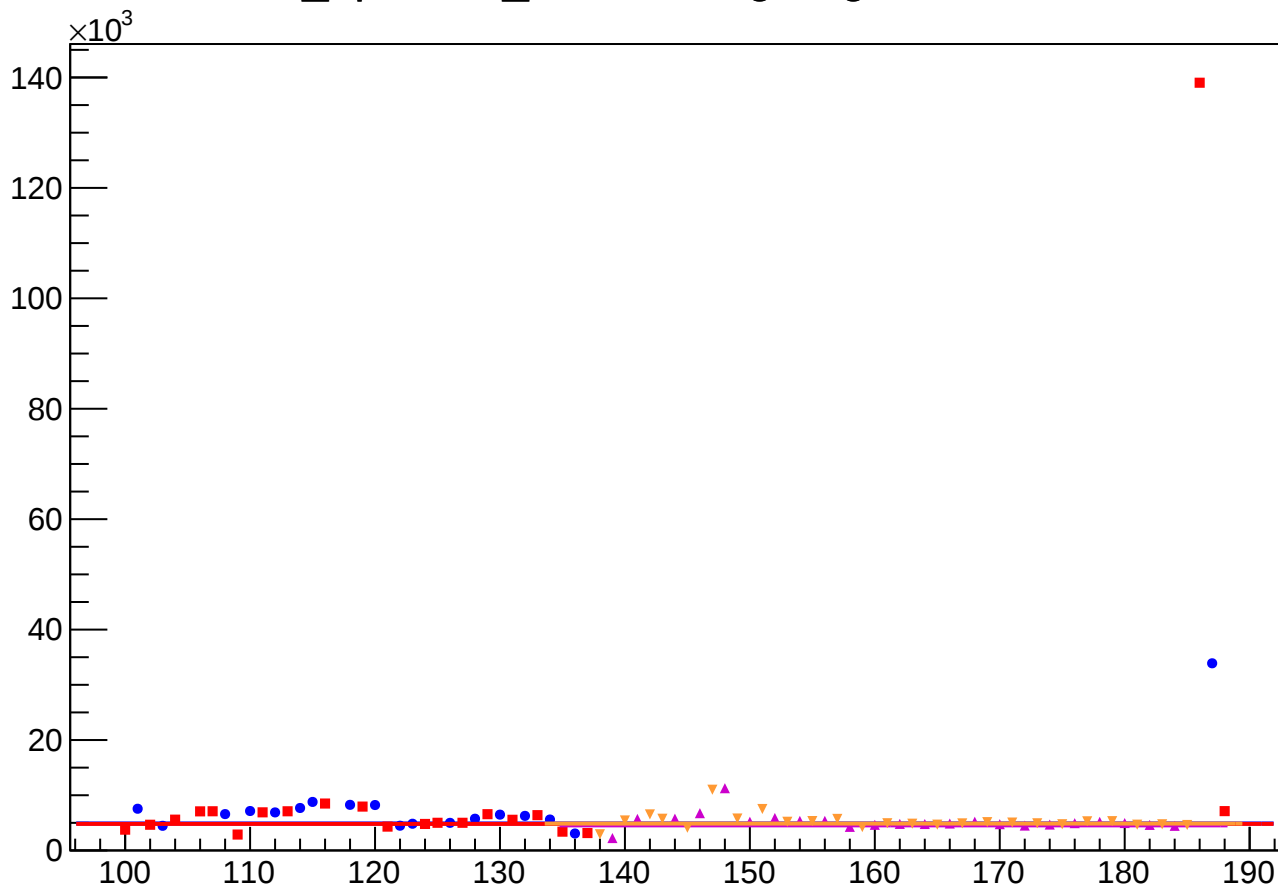
Right: -1.902 ± 1.366 χ^2/NDF : 41.0/38

In: -0.258 ± 0.993 χ^2/NDF : 55.6/40

Out: -0.285 ± 0.991 χ^2/NDF : 41.7/45

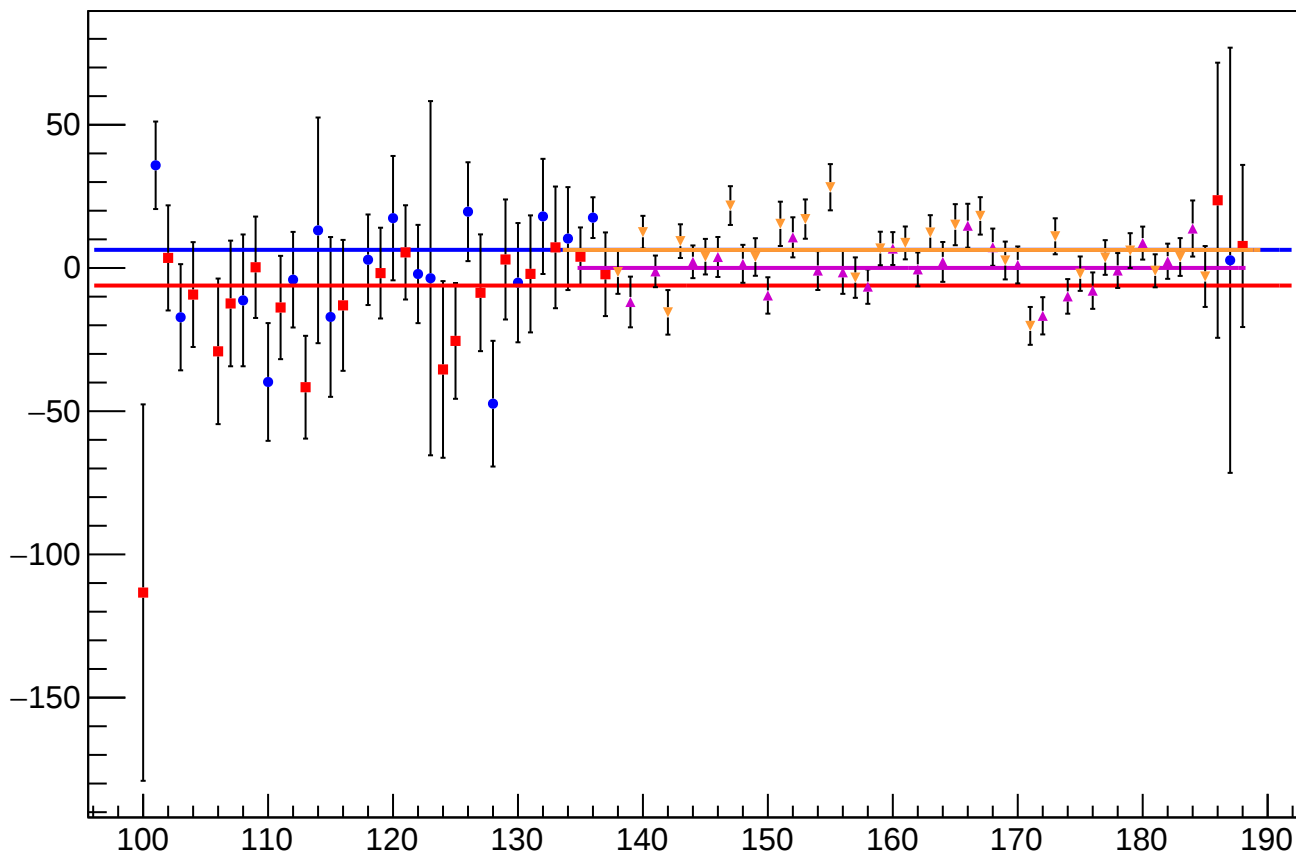
All: -0.272 ± 0.702 χ^2/NDF : 97.3/86

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.520 $\pm$ 1.424	χ^2/NDF : 1621900.7/17	Left: 4702.320 $\pm$ 0.578	χ^2/NDF : 4223993.0/47
Left Out: 4868.567 $\pm$ 0.829	χ^2/NDF : 1511151.0/24	Right: 4845.545 $\pm$ 0.966	χ^2/NDF : 3754947.8/38
Right Out: 4809.789 $\pm$ 1.314	χ^2/NDF : 2131437.2/20	In: 4627.894 $\pm$ 0.702	χ^2/NDF : 4300176.4/40
Left In: 4544.337 $\pm$ 0.808	χ^2/NDF : 2634314.4/22	Out: 4851.846 $\pm$ 0.701	χ^2/NDF : 3644020.1/45
		All: 4740.135 $\pm$ 0.496	χ^2/NDF : 7995134.4/86

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.337 ± 4.082 χ^2/NDF : 22.4/17

Left Out: 6.296 ± 1.310 χ^2/NDF : 56.5/24

Right Out: -6.128 ± 4.170 χ^2/NDF : 12.9/20

Left In: 0.020 ± 1.353 χ^2/NDF : 29.9/22

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

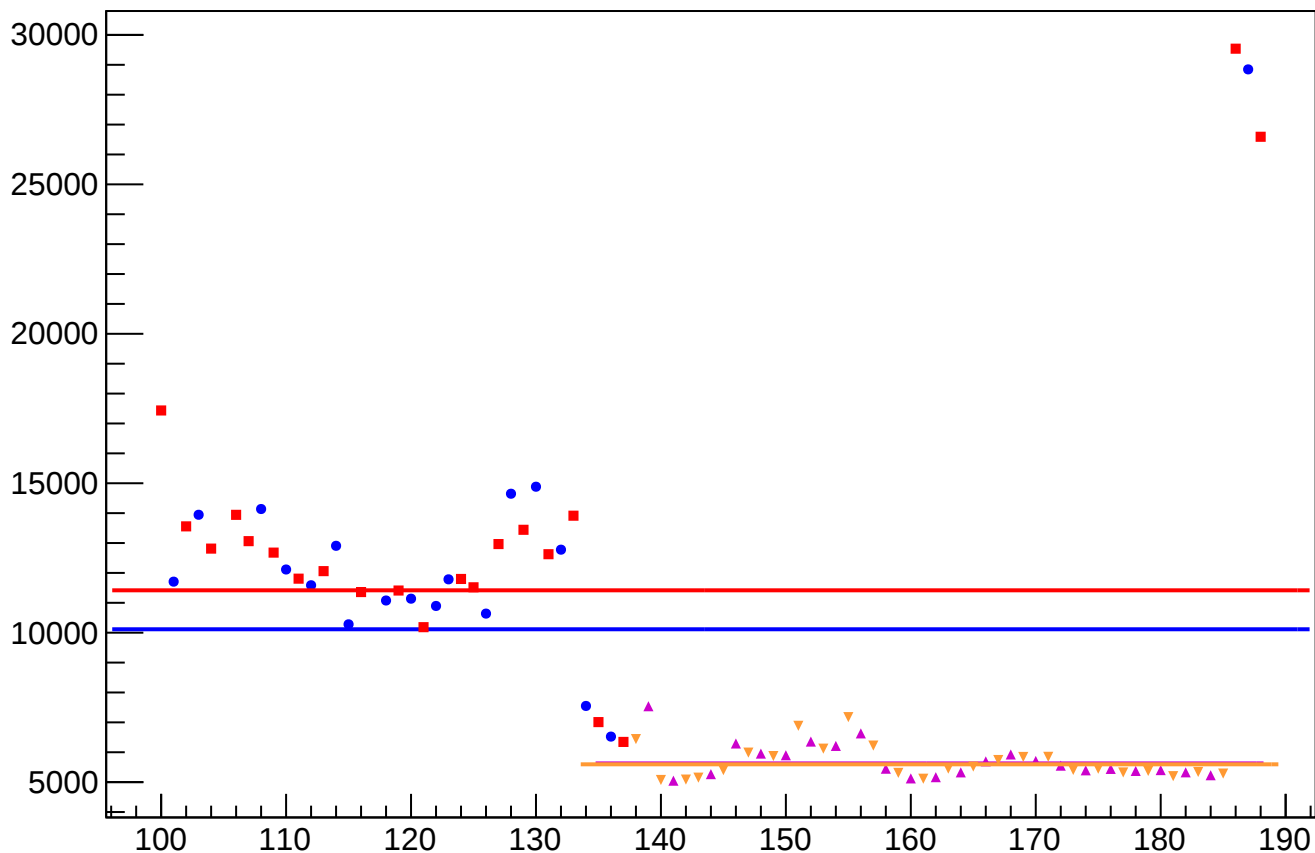
Right: 0.237 ± 2.917 χ^2/NDF : 39.9/38

In: 0.646 ± 1.284 χ^2/NDF : 54.5/40

Out: 5.179 ± 1.250 χ^2/NDF : 77.5/45

All: 2.974 ± 0.896 χ^2/NDF : 138.4/86

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10114.570 ± 2.887 $\chi^2/\text{NDF}: 1135419.7/17$

Left Out: 5596.370 ± 0.926 $\chi^2/\text{NDF}: 283998.1/24$

Right Out: 11417.938 ± 2.949 $\chi^2/\text{NDF}: 1649239.1/20$

Left In: 5627.283 ± 0.957 $\chi^2/\text{NDF}: 279318.7/22$

Left: 5611.329 ± 0.666 $\chi^2/\text{NDF}: 563855.6/47$

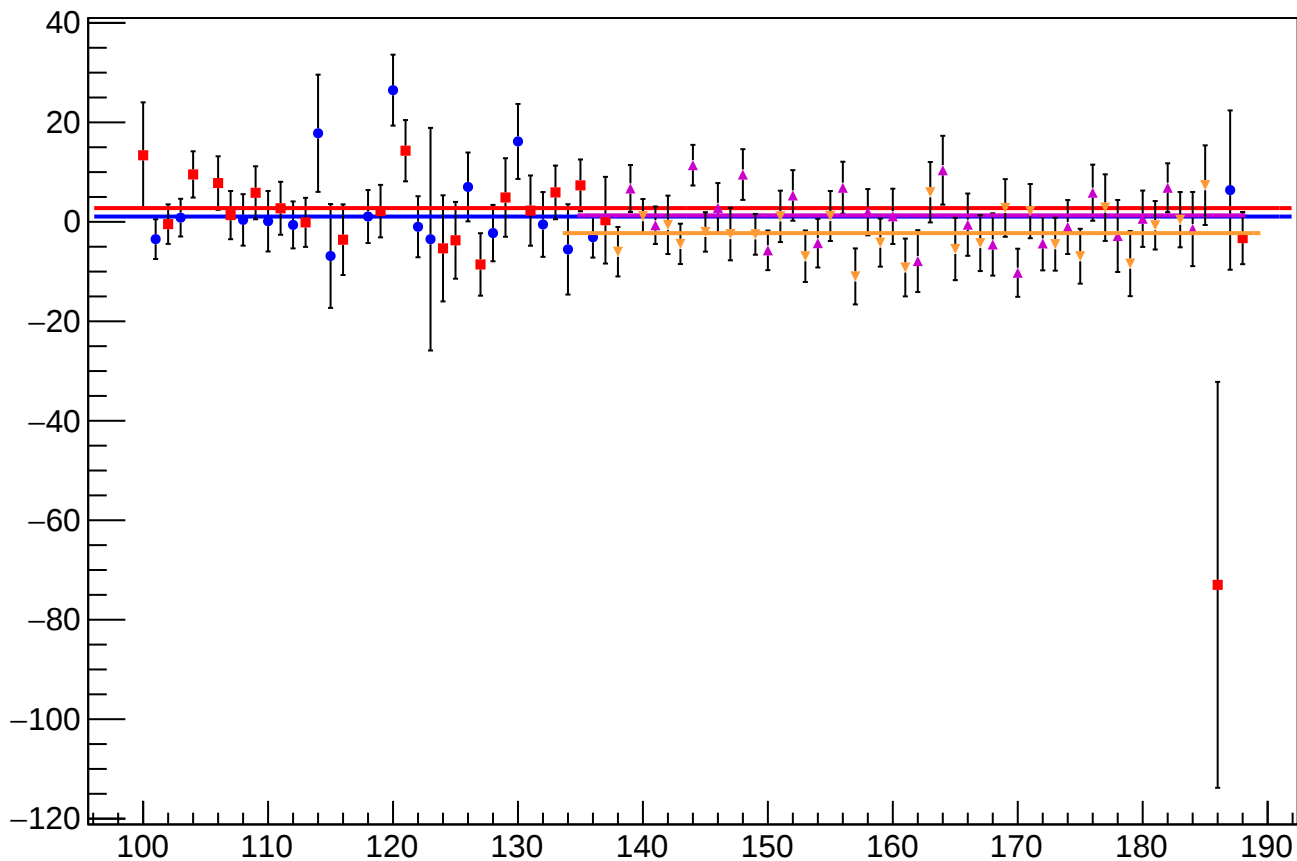
Right: 10752.408 ± 2.063 $\chi^2/\text{NDF}: 2884428.3/38$

In: 6071.459 ± 0.908 $\chi^2/\text{NDF}: 3592046.9/40$

Out: 6119.430 ± 0.884 $\chi^2/\text{NDF}: 5481022.0/45$

All: 6096.096 ± 0.633 $\chi^2/\text{NDF}: 9074501.8/86$

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.065 $\pm$ 1.400 χ^2/NDF : 23.7/17

Left Out: -2.268 $\pm$ 1.029 χ^2/NDF : 15.4/24

Right Out: 2.763 $\pm$ 1.294 χ^2/NDF : 20.3/20

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

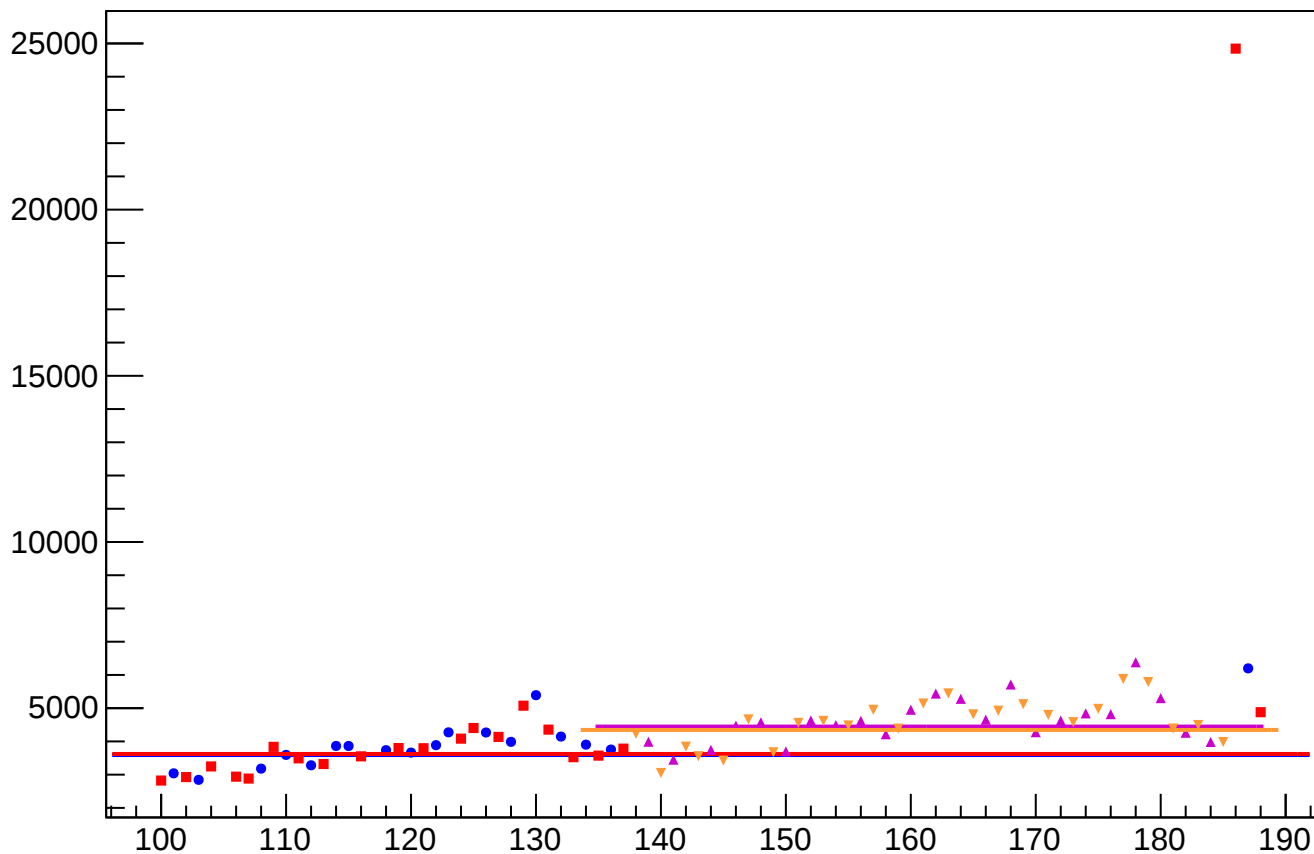
Right: 1.981 $\pm$ 0.950 χ^2/NDF : 44.8/38

In: 1.216 $\pm$ 0.854 χ^2/NDF : 54.6/40

Out: -0.317 $\pm$ 0.806 χ^2/NDF : 44.9/45

All: 0.405 $\pm$ 0.586 χ^2/NDF : 101.2/86

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3590.265 ± 0.990 $\chi^2/\text{NDF}: 363738.3/17$

Left Out: 4345.381 ± 0.728 $\chi^2/\text{NDF}: 1000636.1/24$

Right Out: 3622.435 ± 0.915 $\chi^2/\text{NDF}: 964193.5/20$

Left In: 4446.181 ± 0.762 $\chi^2/\text{NDF}: 702797.6/22$

Left: 4393.504 ± 0.526 $\chi^2/\text{NDF}: 1712588.4/47$

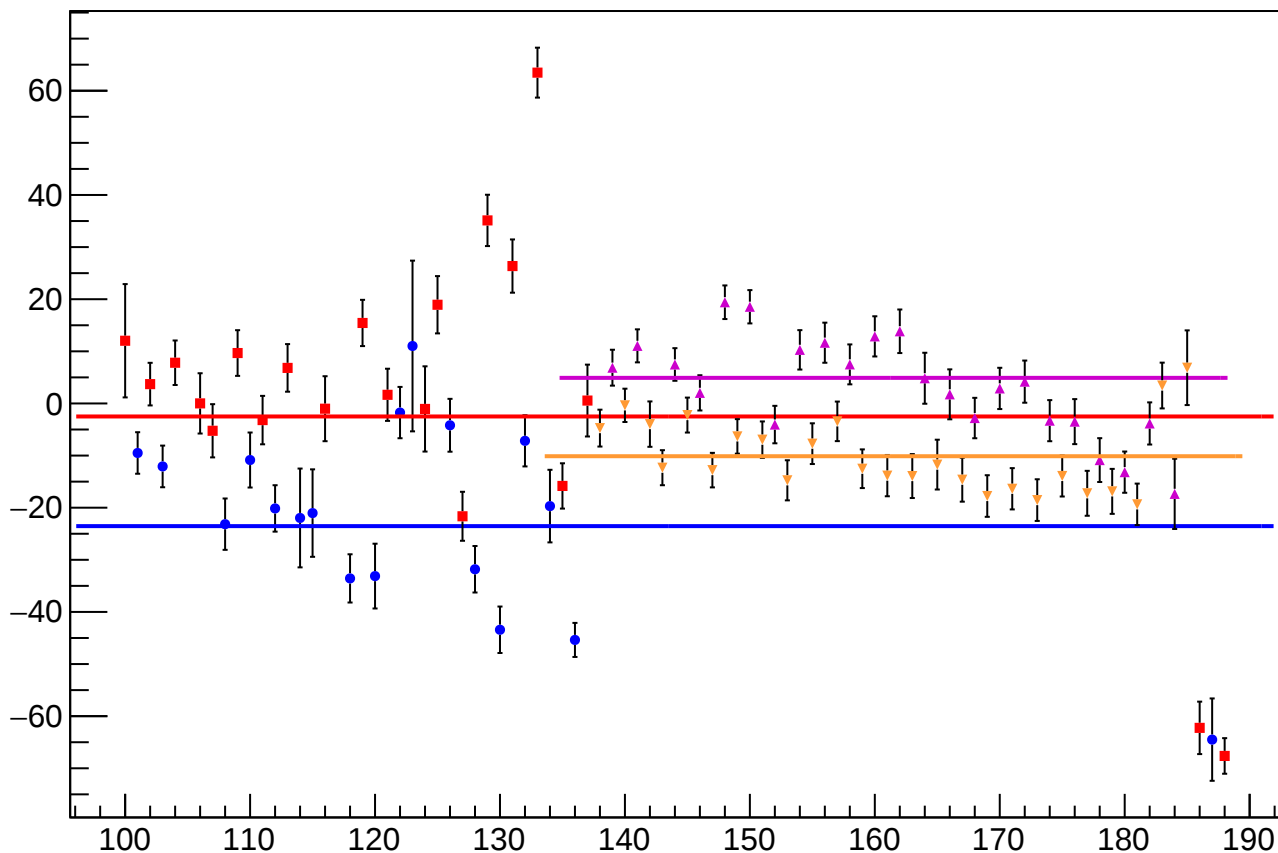
Right: 3607.616 ± 0.672 $\chi^2/\text{NDF}: 1328501.4/38$

In: 4127.928 ± 0.604 $\chi^2/\text{NDF}: 1536170.0/40$

Out: 4065.114 ± 0.570 $\chi^2/\text{NDF}: 2347220.9/45$

All: 4094.701 ± 0.414 $\chi^2/\text{NDF}: 3889119.1/86$

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -23.537 ± 1.189 χ^2/NDF : 179.1/17

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: -2.498 ± 1.072 χ^2/NDF : 865.7/20

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

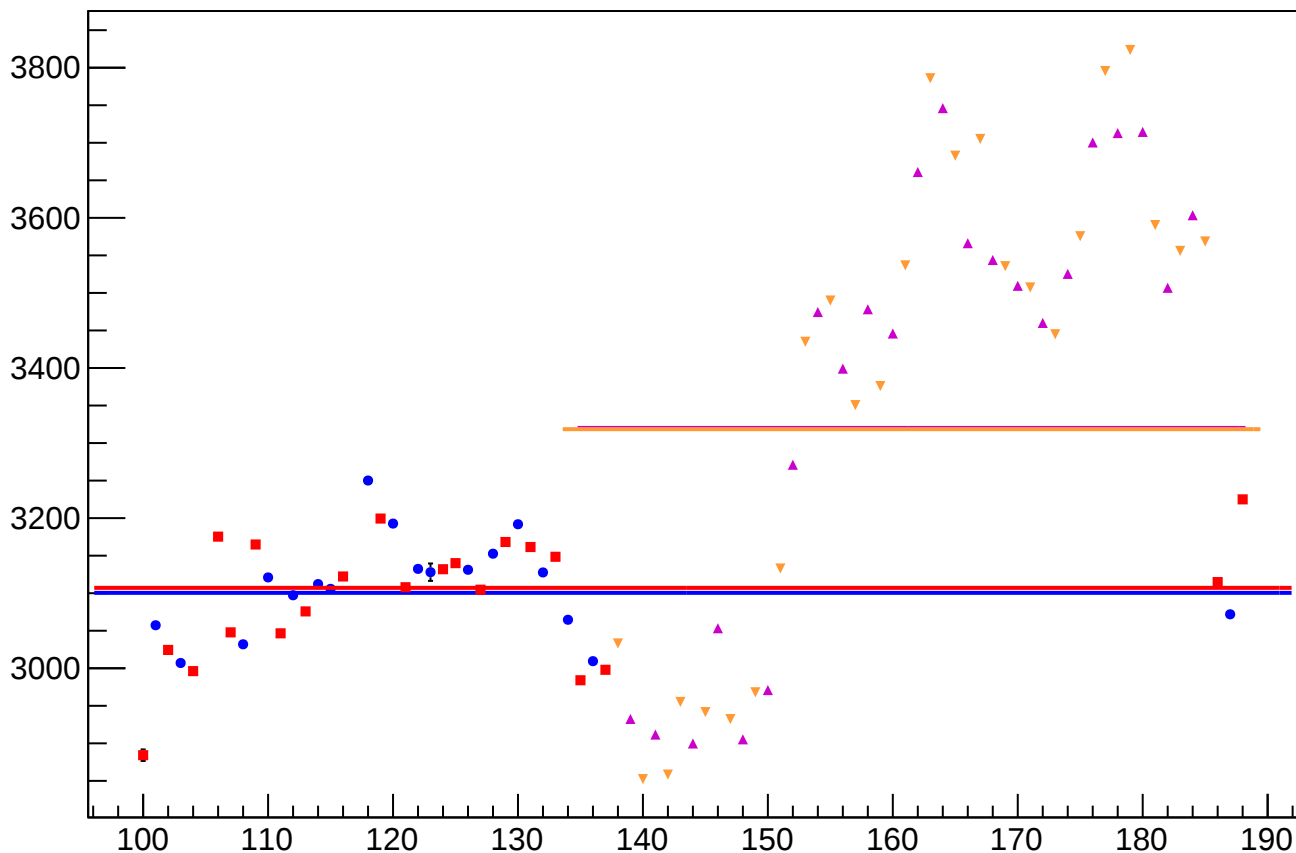
Right: -11.934 ± 0.796 χ^2/NDF : 1217.5/38

In: -3.911 ± 0.662 χ^2/NDF : 702.0/40

Out: -7.505 ± 0.628 χ^2/NDF : 966.9/45

All: -5.802 ± 0.456 χ^2/NDF : 1684.4/86

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3100.492 $\pm$ 0.841 χ^2 /NDF: 7252.3/17

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3107.141 $\pm$ 0.758 χ^2 /NDF: 10484.9/20

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

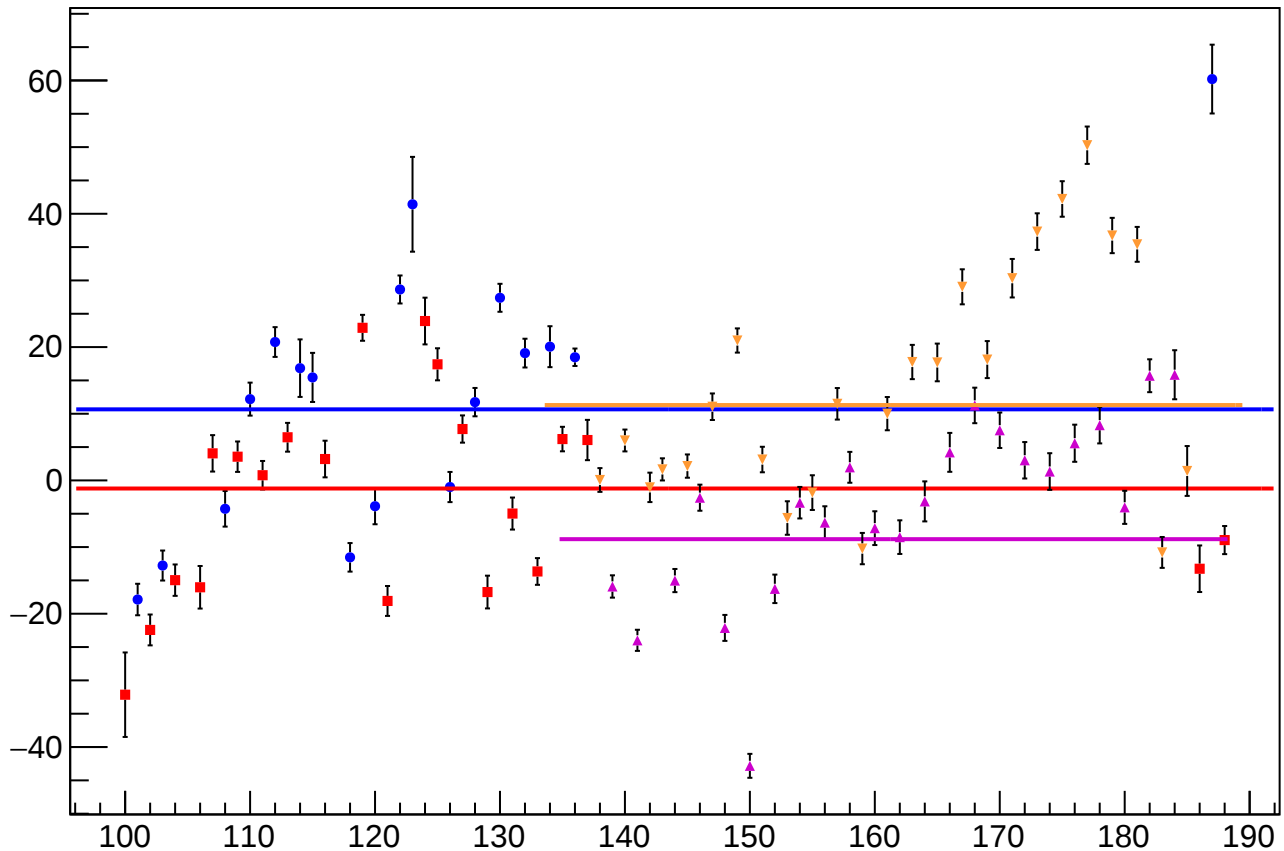
Right: 3104.159 $\pm$ 0.563 χ^2 /NDF: 17771.7/38

In: 3252.044 $\pm$ 0.468 χ^2 /NDF:341992.9/40

Out: 3245.913 $\pm$ 0.444 χ^2 /NDF:399211.1/45

All: 3248.818 $\pm$ 0.322 χ^2 /NDF: 741294.3/86

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 10.660 ± 0.559 $\chi^2/\text{NDF}: 781.4/17$

Left Out: 11.305 ± 0.454 $\chi^2/\text{NDF}: 1144.3/24$

Right Out: -1.216 ± 0.524 $\chi^2/\text{NDF}: 656.6/20$

Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$

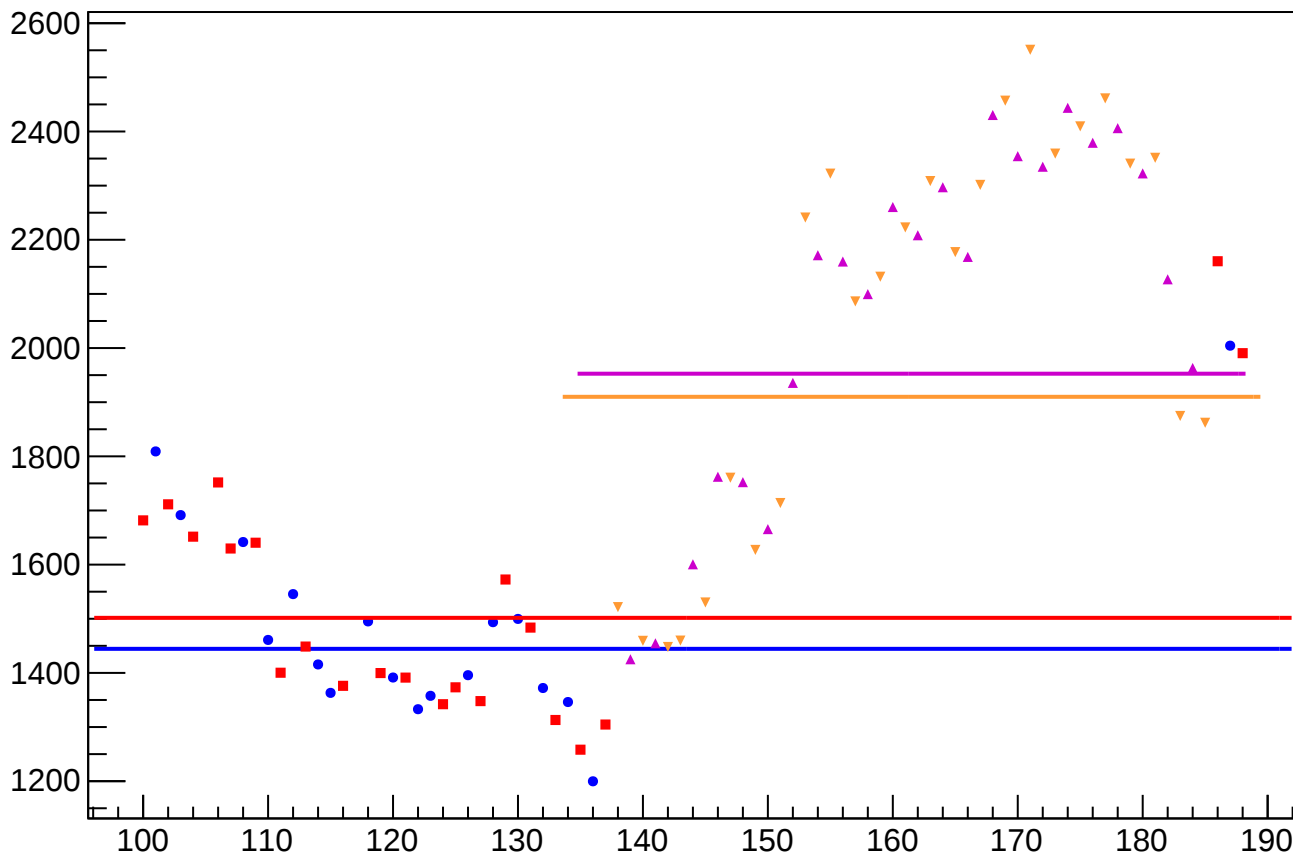
Right: 4.338 ± 0.383 $\chi^2/\text{NDF}: 1677.9/38$

In: -0.648 ± 0.362 $\chi^2/\text{NDF}: 2427.4/40$

Out: 5.942 ± 0.343 $\chi^2/\text{NDF}: 2126.9/45$

All: 2.825 ± 0.249 $\chi^2/\text{NDF}: 4728.7/86$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1444.453+/-0.396 χ^2/NDF : 197010.1/17

Left Out: 1909.963+/-0.321 χ^2/NDF :1399467.7/24

Right Out: 1501.702+/-0.371 χ^2/NDF : 333332.2/20

Left In: 1952.637+/-0.336 χ^2/NDF :1065333.8/22

Left: 1930.313+/-0.232 χ^2/NDF : 2473233.3/47

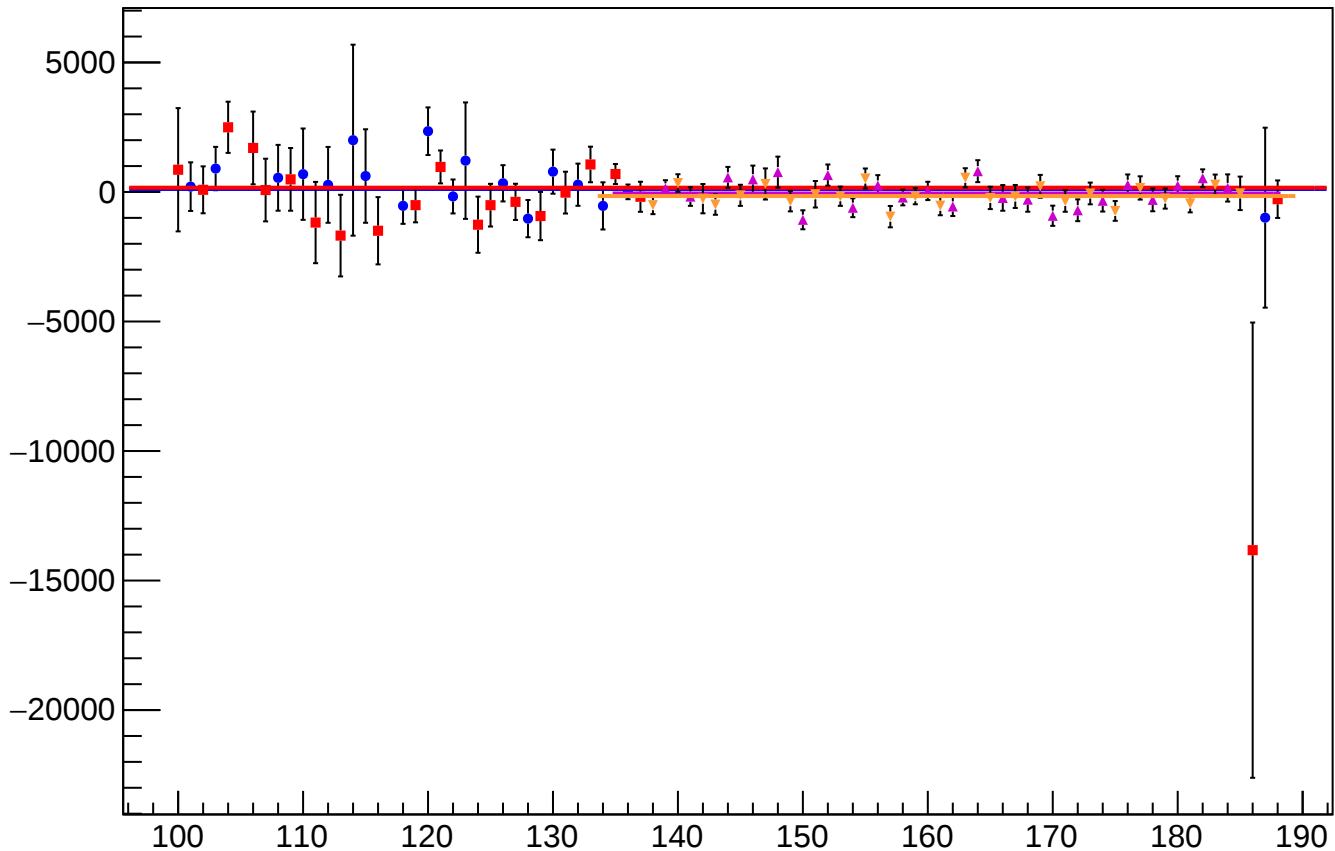
Right: 1474.927+/-0.270 χ^2/NDF : 541494.3/38

In: 1739.523+/-0.256 χ^2/NDF :2220871.6/40

Out: 1735.088+/-0.243 χ^2/NDF :2426023.6/45

All: 1737.185+/-0.176 χ^2/NDF : 4647053.2/86

asym_sam1_mean vs Slug, Sign Corrected



Right In: 116.367 $\pm$ 180.358 χ^2 /NDF: 12.7/17

Left Out: -157.242 $\pm$ 80.796 χ^2 /NDF:22.0/24

Right Out: 165.551 $\pm$ 179.015 χ^2 /NDF: 24.6/20

Left In: -58.934 $\pm$ 82.584 χ^2 /NDF:38.5/22

Left: -109.164 $\pm$ 57.753 χ^2 /NDF: 61.3/47

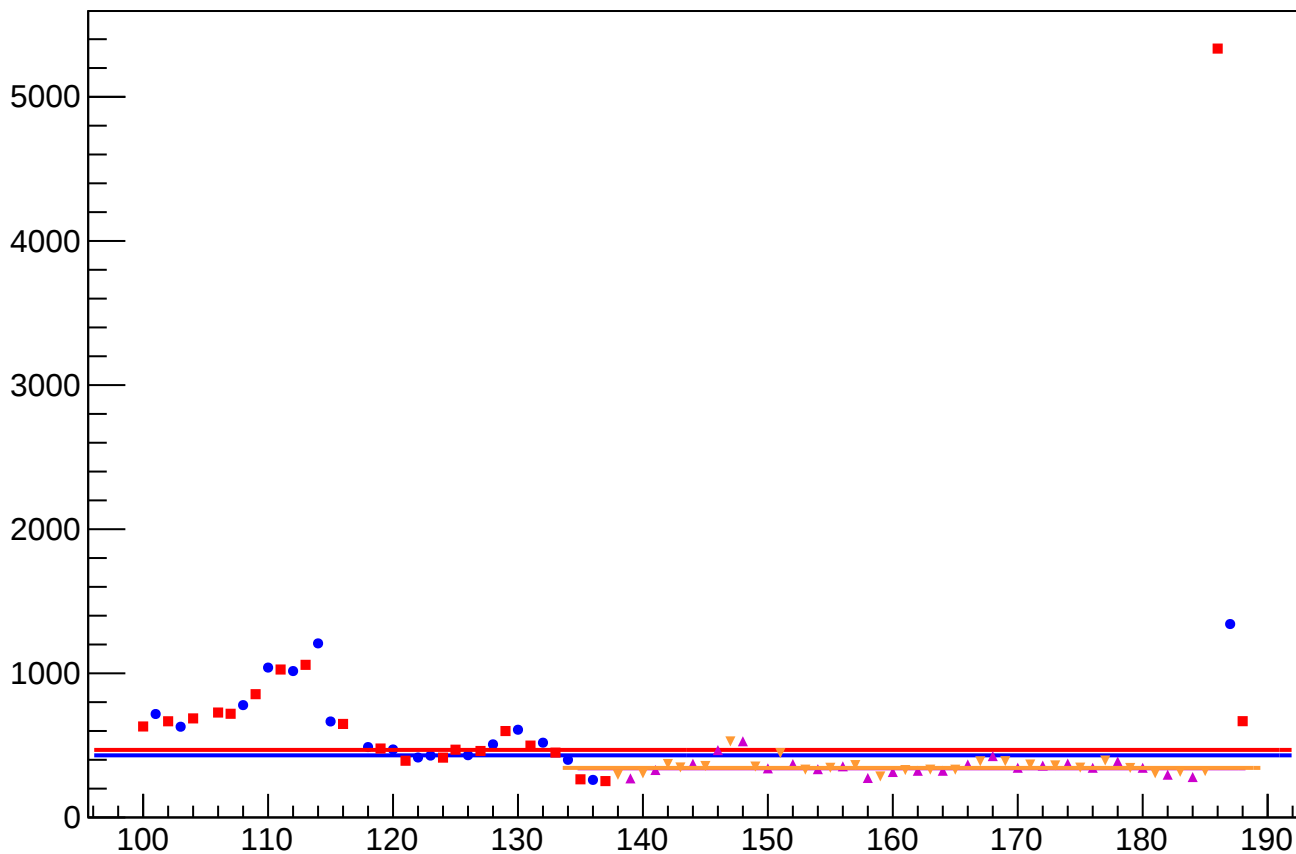
Right: 141.143 $\pm$ 127.055 χ^2 /NDF: 37.4/38

In: -28.550 $\pm$ 75.087 χ^2 /NDF:52.0/40

Out: -102.616 $\pm$ 73.643 χ^2 /NDF:49.3/45

All: -66.302 $\pm$ 52.576 χ^2 /NDF: 101.9/86

asym_sam1_rms vs Slug, Sign Corrected



Right In: 430.888+/-0.128 χ^2/NDF : 2144955.6/17

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 468.705+/-0.127 χ^2/NDF : 2810581.1/20

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

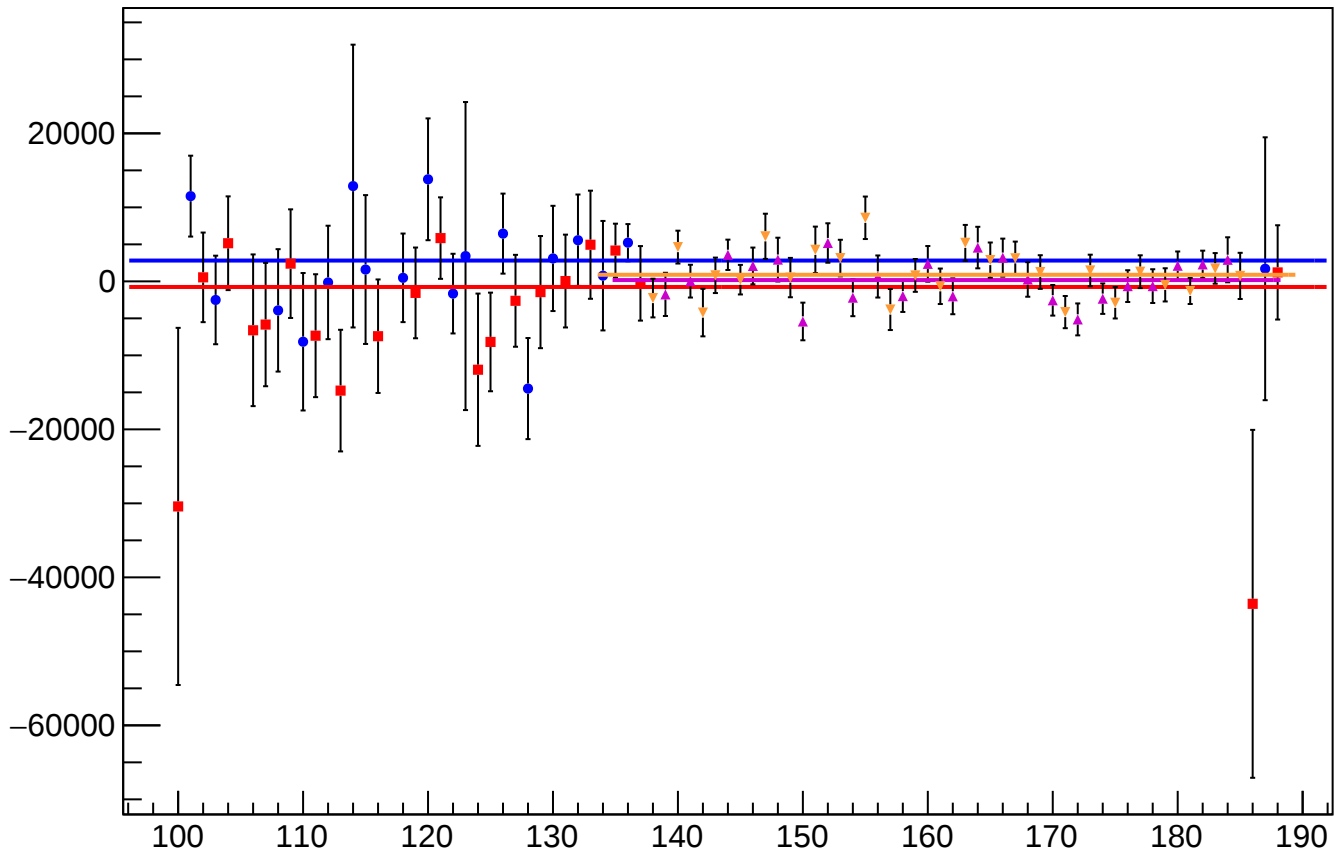
Right: 449.938+/-0.090 χ^2/NDF : 4999830.2/38

In: 356.477+/-0.053 χ^2/NDF : 3281434.2/40

Out: 364.943+/-0.052 χ^2/NDF : 4158819.3/45

All: 360.793+/-0.037 χ^2/NDF : 7453212.2/86

asym_sam2_mean vs Slug, Sign Corrected



Right In: 2812.238 ± 1445.976 χ^2/NDF : 16.5/17

Left Out: 890.395 ± 473.262 χ^2/NDF : 38.0/24

Right Out: -758.038 ± 1468.835 χ^2/NDF : 17.5/20

Left In: 172.391 ± 488.067 χ^2/NDF : 33.2/22

Left: 542.448 ± 339.760 χ^2/NDF : 72.3/47

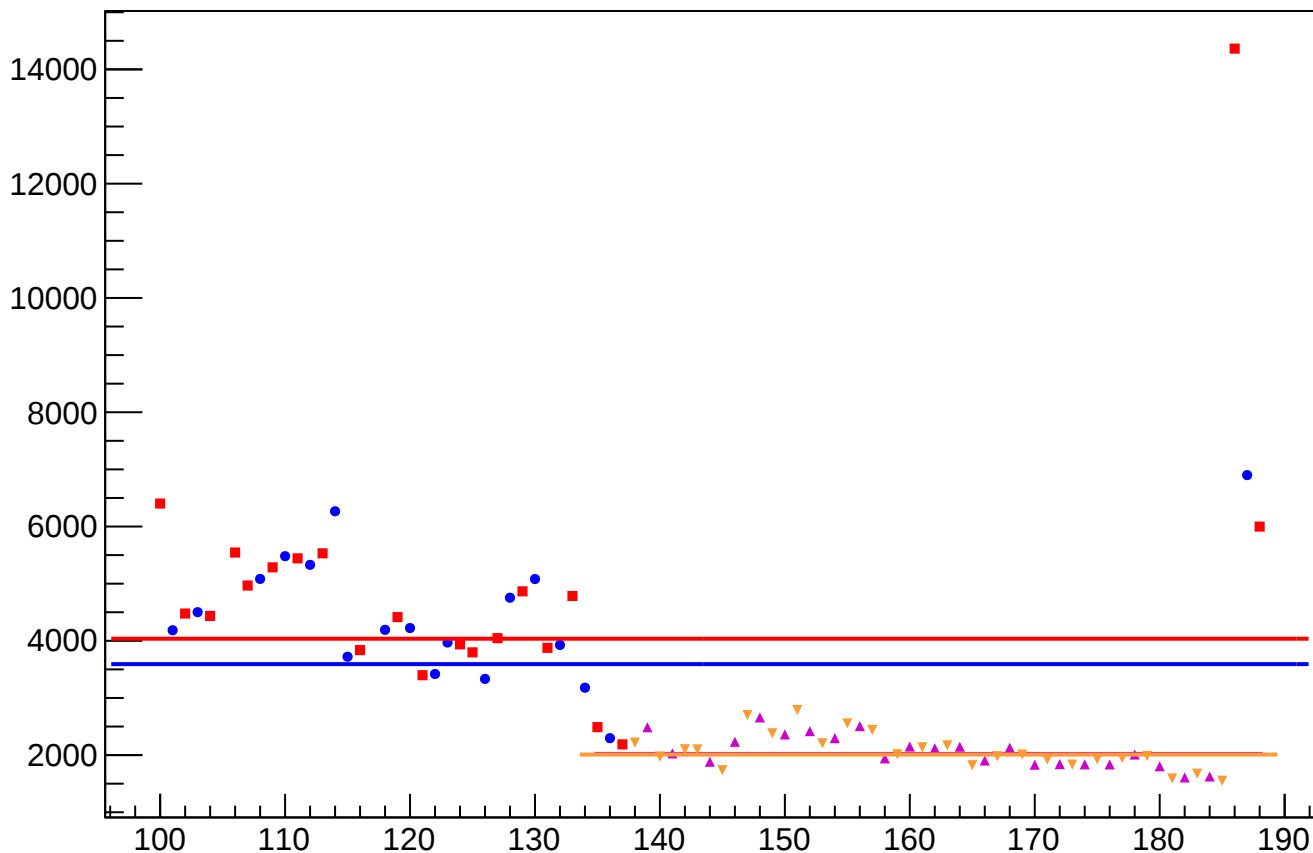
Right: 1055.098 ± 1030.446 χ^2/NDF : 37.0/38

In: 442.387 ± 462.435 χ^2/NDF : 52.7/40

Out: 735.359 ± 450.457 χ^2/NDF : 56.6/45

All: 592.717 ± 322.673 χ^2/NDF : 109.5/86

asym_sam2_rms vs Slug, Sign Corrected



Right In: 3592.252 ± 1.022 $\chi^2/\text{NDF}: 1157732.5/17$

Left Out: 2009.631 ± 0.335 $\chi^2/\text{NDF}: 709977.6/24$

Right Out: 4037.043 ± 1.039 $\chi^2/\text{NDF}: 1580510.1/20$

Left In: 2020.365 ± 0.345 $\chi^2/\text{NDF}: 573483.0/22$

Left: 2014.833 ± 0.240 $\chi^2/\text{NDF}: 1283959.2/47$

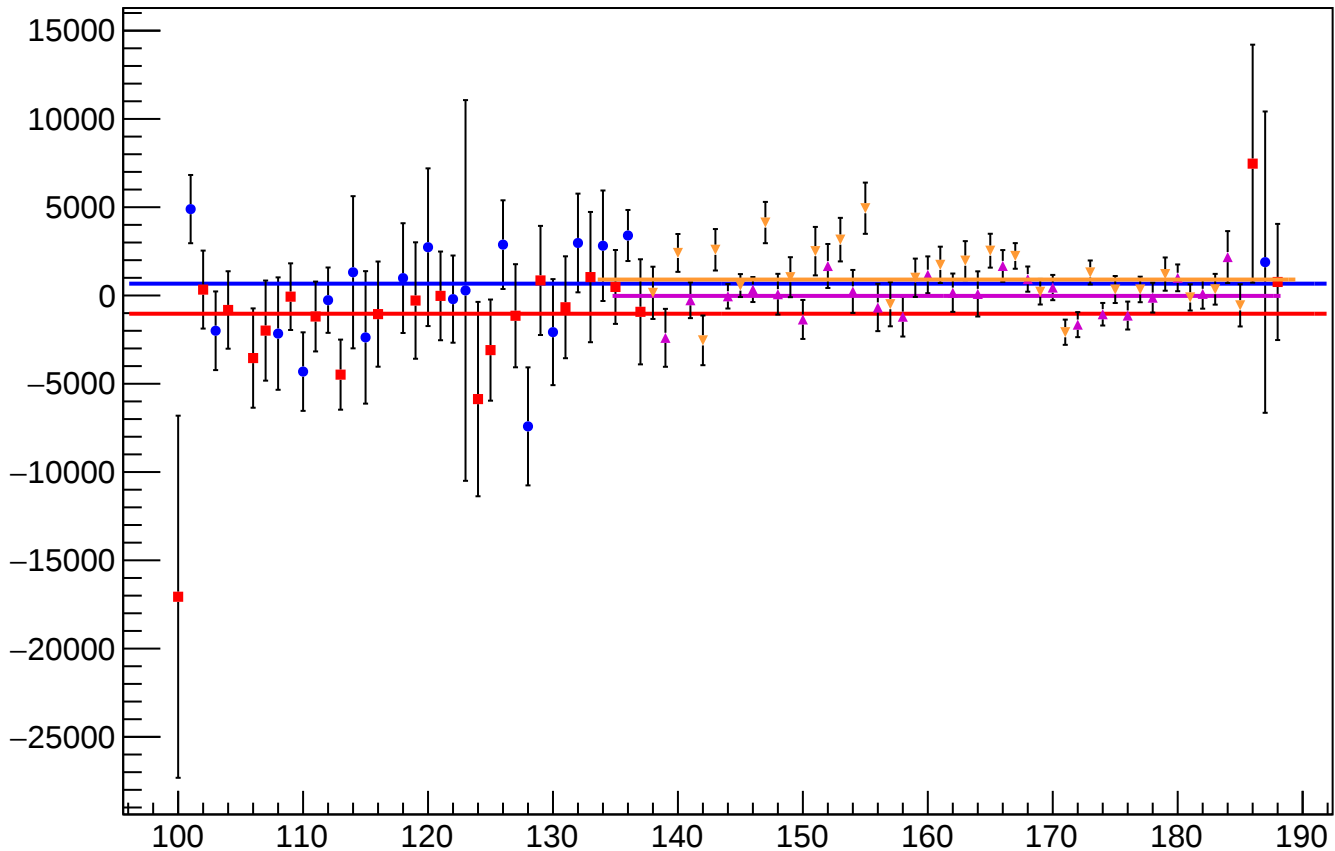
Right: 3811.159 ± 0.729 $\chi^2/\text{NDF}: 2831379.7/38$

In: 2181.134 ± 0.327 $\chi^2/\text{NDF}: 3852957.2/40$

Out: 2200.310 ± 0.319 $\chi^2/\text{NDF}: 5742493.0/45$

All: 2190.973 ± 0.228 $\chi^2/\text{NDF}: 9597214.9/86$

asym_sam3_mean vs Slug, Sign Corrected



Right In: 669.894+/-620.862 χ^2/NDF : 25.5/17

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -1033.247+/-592.102 χ^2/NDF : 11.7/20

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

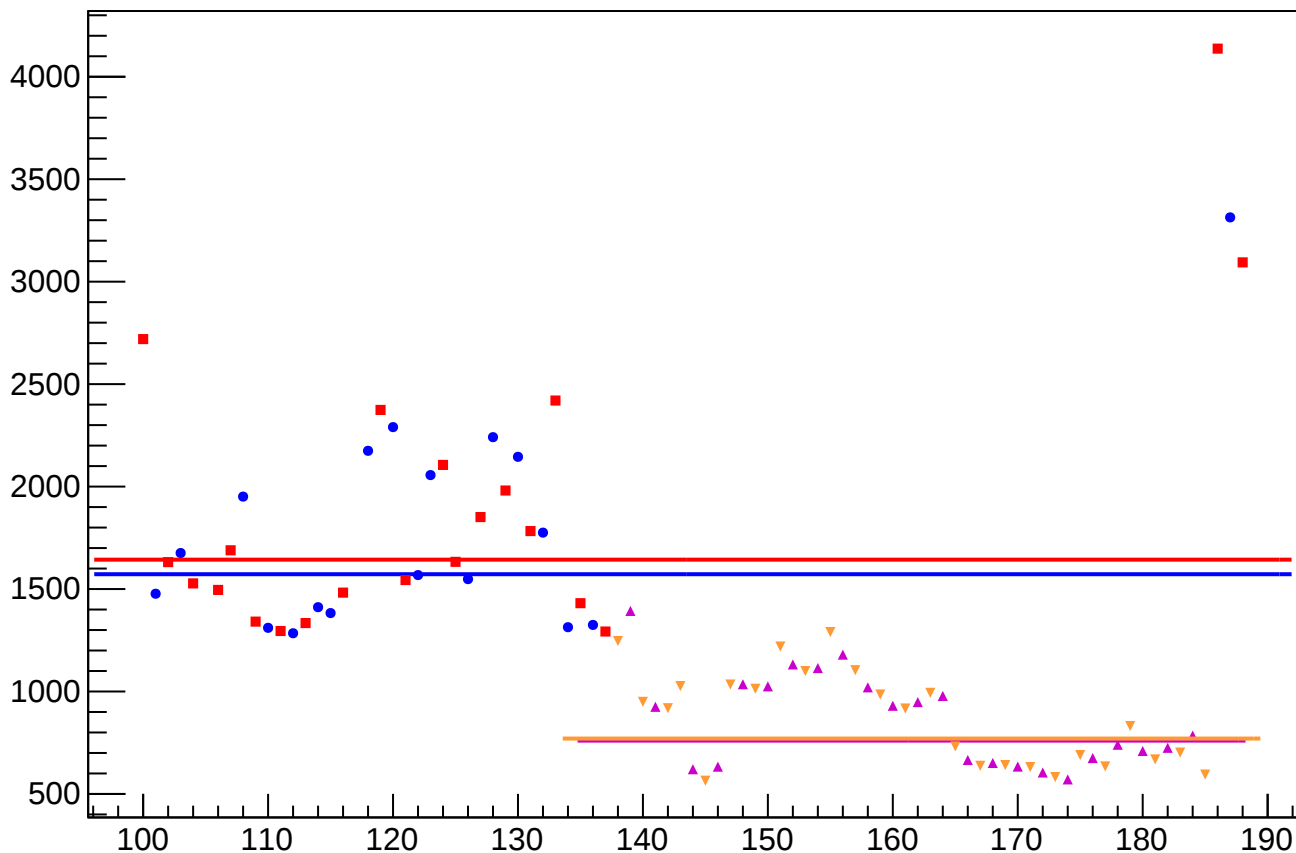
Right: -222.036+/-428.486 χ^2/NDF : 41.1/38

In: 34.789+/-180.052 χ^2/NDF : 54.8/40

Out: 728.519+/-177.320 χ^2/NDF : 84.9/45

All: 386.956+/-126.339 χ^2/NDF : 147.3/86

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1572.364 $\pm$ 0.439 χ^2 /NDF: 571374.6/17

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF: 2287655.1/24

Right Out: 1643.395 $\pm$ 0.419 χ^2 /NDF: 1155537.2/20

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

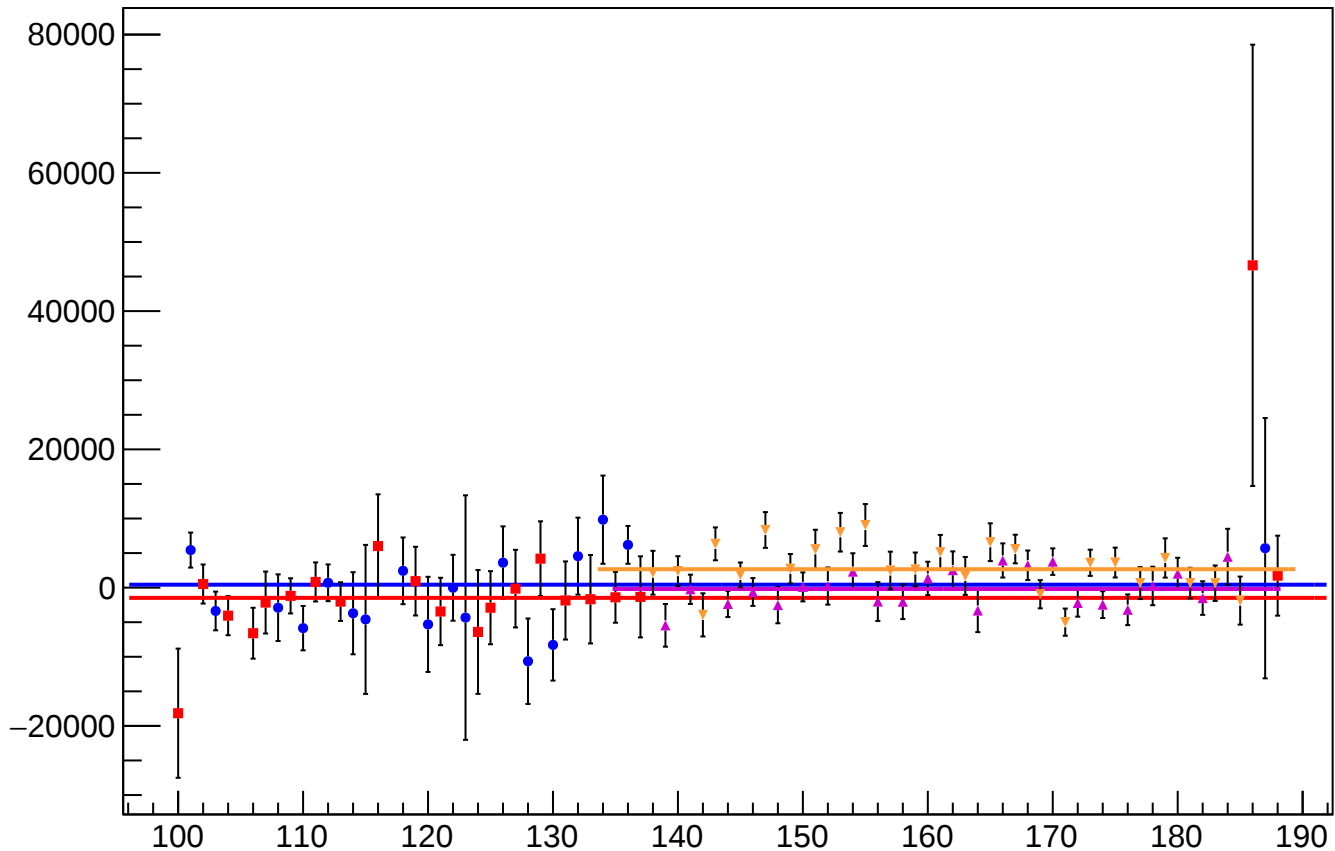
Right: 1609.563 $\pm$ 0.303 χ^2 /NDF: 1740621.3/38

In: 828.643 $\pm$ 0.127 χ^2 /NDF: 5691500.1/40

Out: 848.623 $\pm$ 0.125 χ^2 /NDF: 7401703.5/45

All: 838.786 $\pm$ 0.089 χ^2 /NDF: 13105704.7/86

asym_sam4_mean vs Slug, Sign Corrected



Right In: 425.925+/-996.648 χ^2/NDF : 25.4/17

Left Out: 2665.587+/-479.773 χ^2/NDF : 49.2/24

Right Out: -1478.351+/-913.767 χ^2/NDF : 12.7/20

Left In: -199.371+/-492.082 χ^2/NDF : 25.8/22

Left: 1269.388+/-343.520 χ^2/NDF : 92.4/47

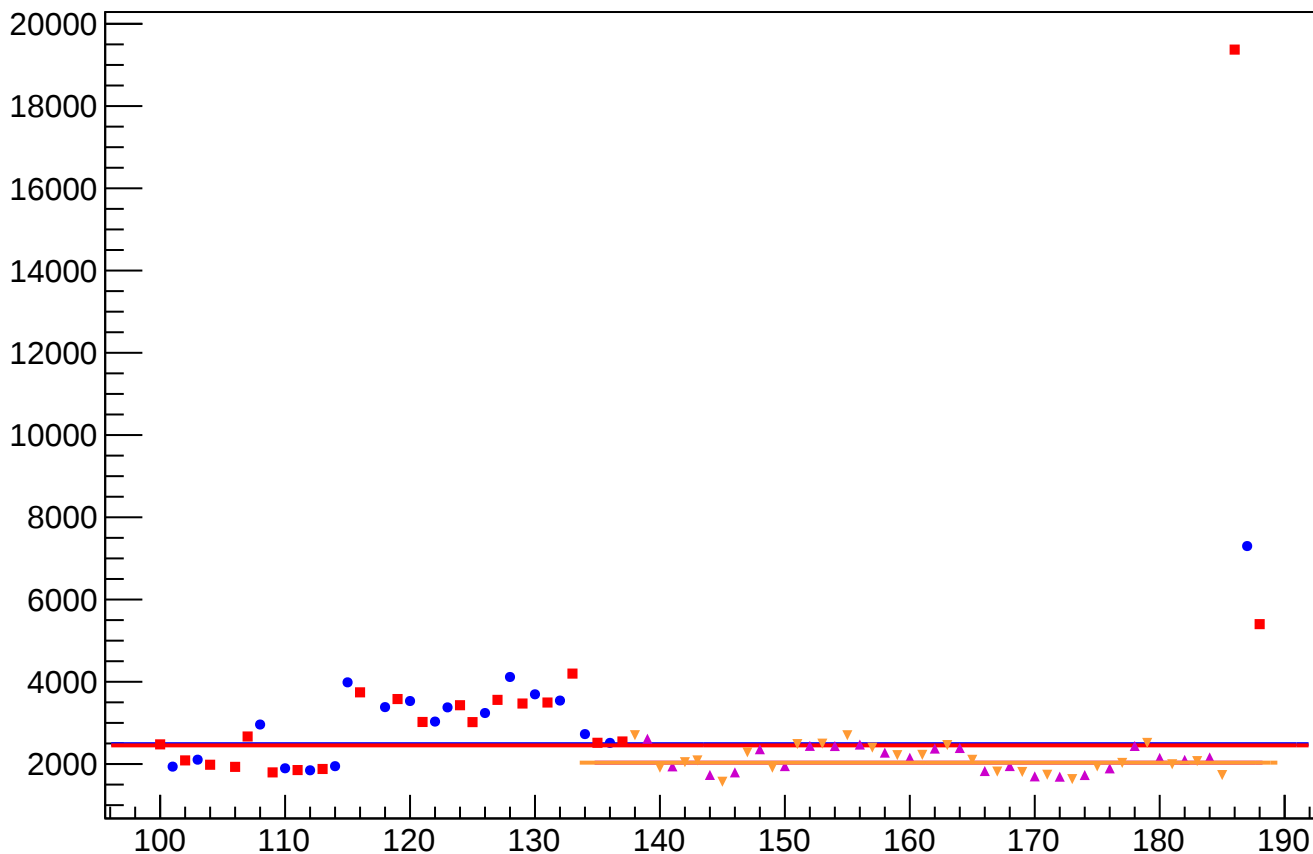
Right: -608.672+/-673.529 χ^2/NDF : 40.1/38

In: -76.815+/-441.231 χ^2/NDF : 51.5/40

Out: 1770.072+/-424.782 χ^2/NDF : 78.1/45

All: 881.697+/-306.016 χ^2/NDF : 138.6/86

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2482.771+/-0.705 χ^2/NDF : 1031470.1/17

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 2453.609+/-0.646 χ^2/NDF : 2126730.1/20

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

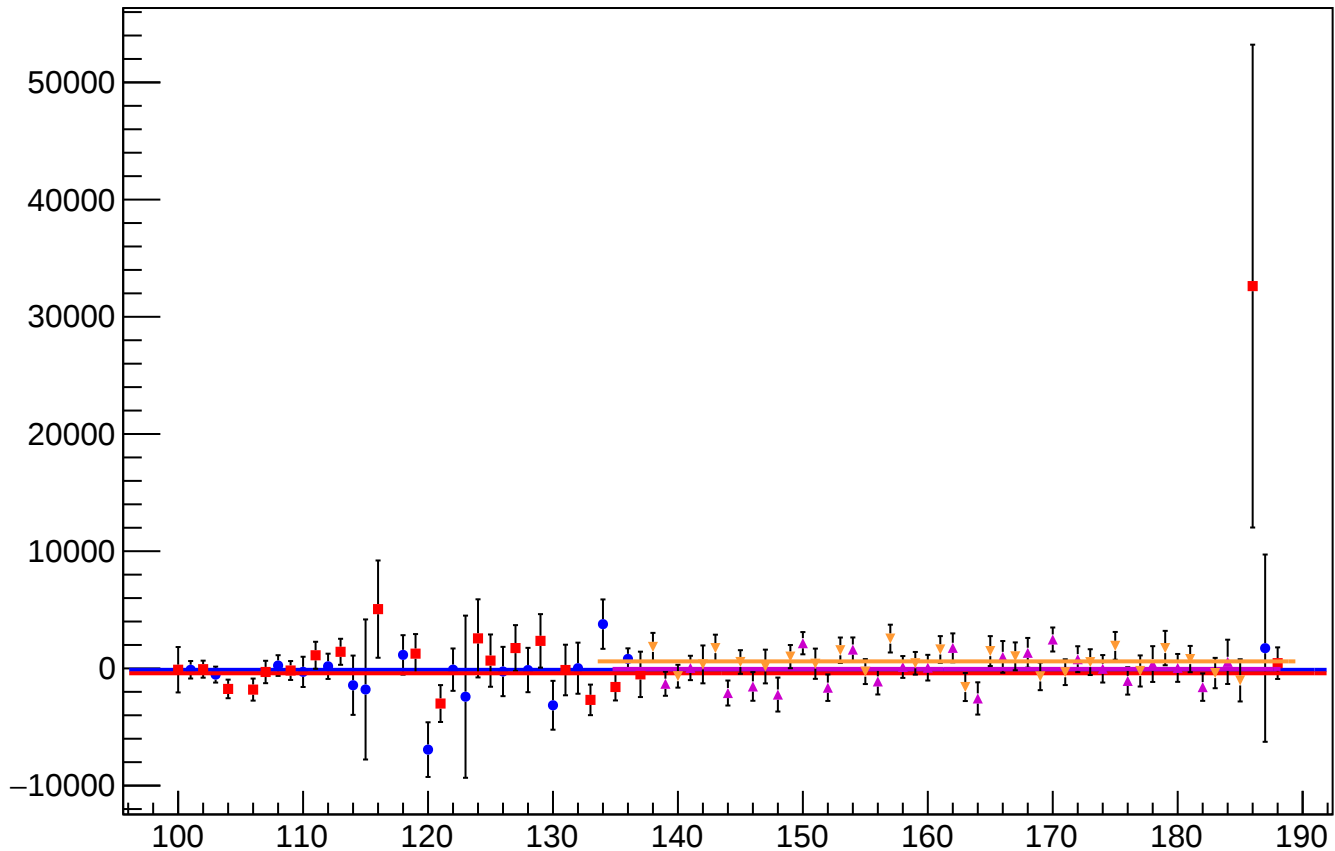
Right: 2466.927+/-0.476 χ^2/NDF : 3159130.5/38

In: 2120.876+/-0.312 χ^2/NDF : 2012217.9/40

Out: 2124.159+/-0.300 χ^2/NDF : 3282442.1/45

All: 2122.580+/-0.216 χ^2/NDF : 5294717.5/86

asym_sam5_mean vs Slug, Sign Corrected



Right In: -121.488+/-313.493 χ^2/NDF : 16.8/17

Left Out: 600.005+/-234.968 χ^2/NDF : 18.5/24

Right Out: -416.870+/-277.066 χ^2/NDF : 26.1/20

Left In: -41.559+/-240.807 χ^2/NDF : 36.4/22

Left: 287.096+/-168.174 χ^2/NDF : 58.5/47

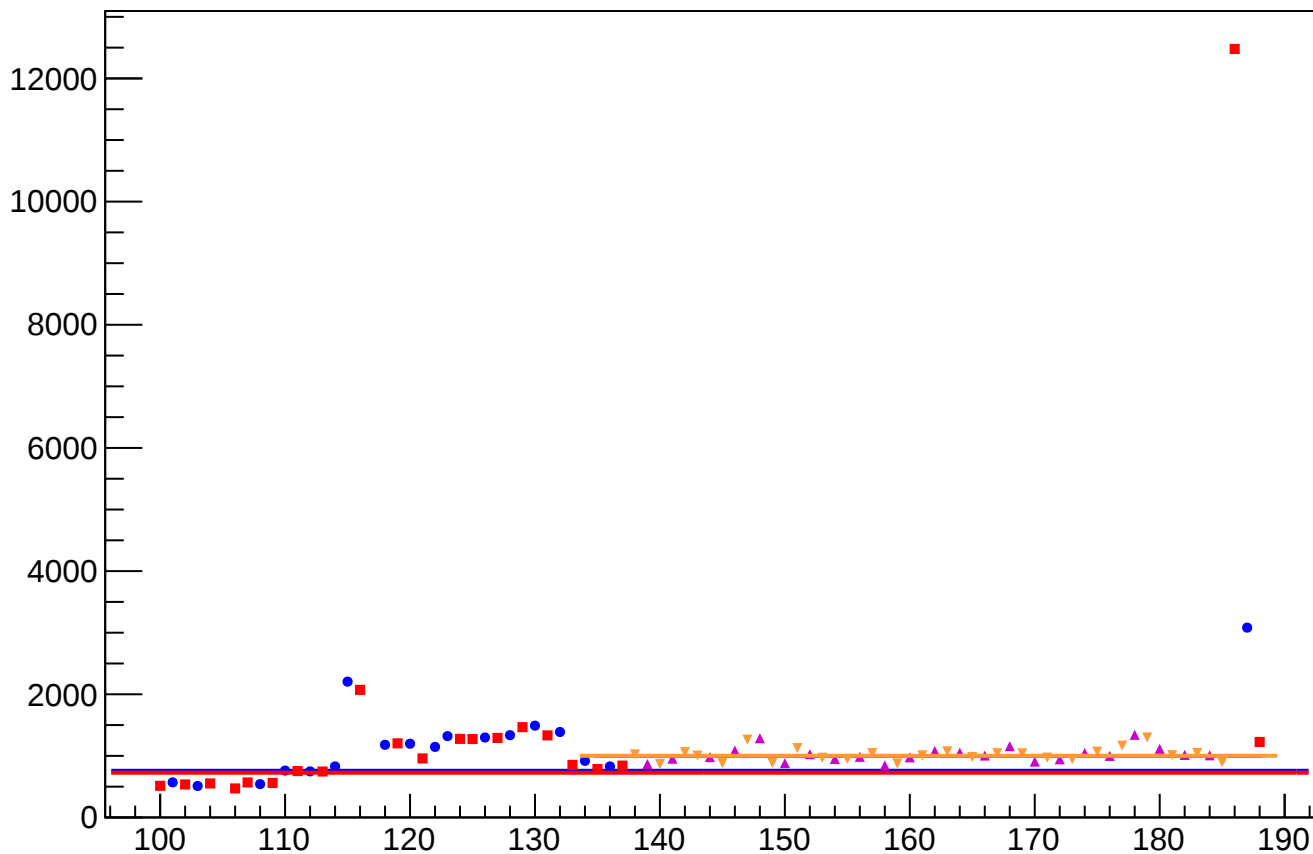
Right: -287.330+/-207.605 χ^2/NDF : 43.4/38

In: -71.220+/-190.970 χ^2/NDF : 53.2/40

Out: 174.611+/-179.203 χ^2/NDF : 52.4/45

All: 59.502+/-130.678 χ^2/NDF : 106.6/86

asym_sam5_rms vs Slug, Sign Corrected



Right In: 757.803+/-0.222 χ^2/NDF : 1858639.0/17

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 726.330+/-0.196 χ^2/NDF : 2629492.4/20

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

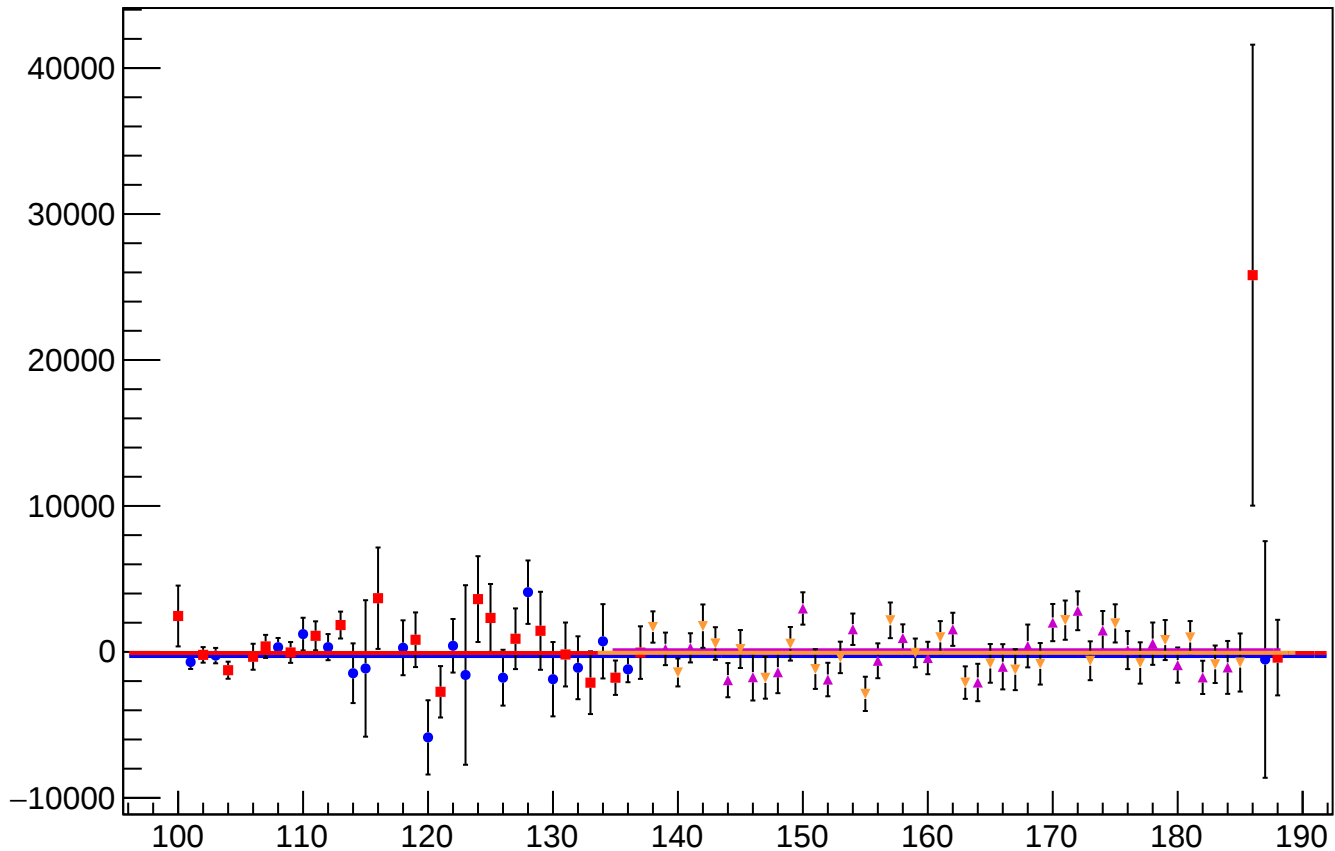
Right: 740.132+/-0.147 χ^2/NDF : 4499448.7/38

In: 908.897+/-0.135 χ^2/NDF : 3002021.8/40

Out: 886.370+/-0.127 χ^2/NDF : 4147015.7/45

All: 896.919+/-0.092 χ^2/NDF : 7163835.9/86

asym_sam6_mean vs Slug, Sign Corrected



Right In: -283.397 $\pm$ 250.563 χ^2 /NDF: 15.8/17

Left Out: -59.827 $\pm$ 246.503 χ^2 /NDF:31.0/24

Right Out: -74.151 $\pm$ 245.075 χ^2 /NDF: 24.3/20

Left In: 112.398 $\pm$ 255.409 χ^2 /NDF:34.9/22

Left: 23.230 $\pm$ 177.369 χ^2 /NDF: 66.1/47

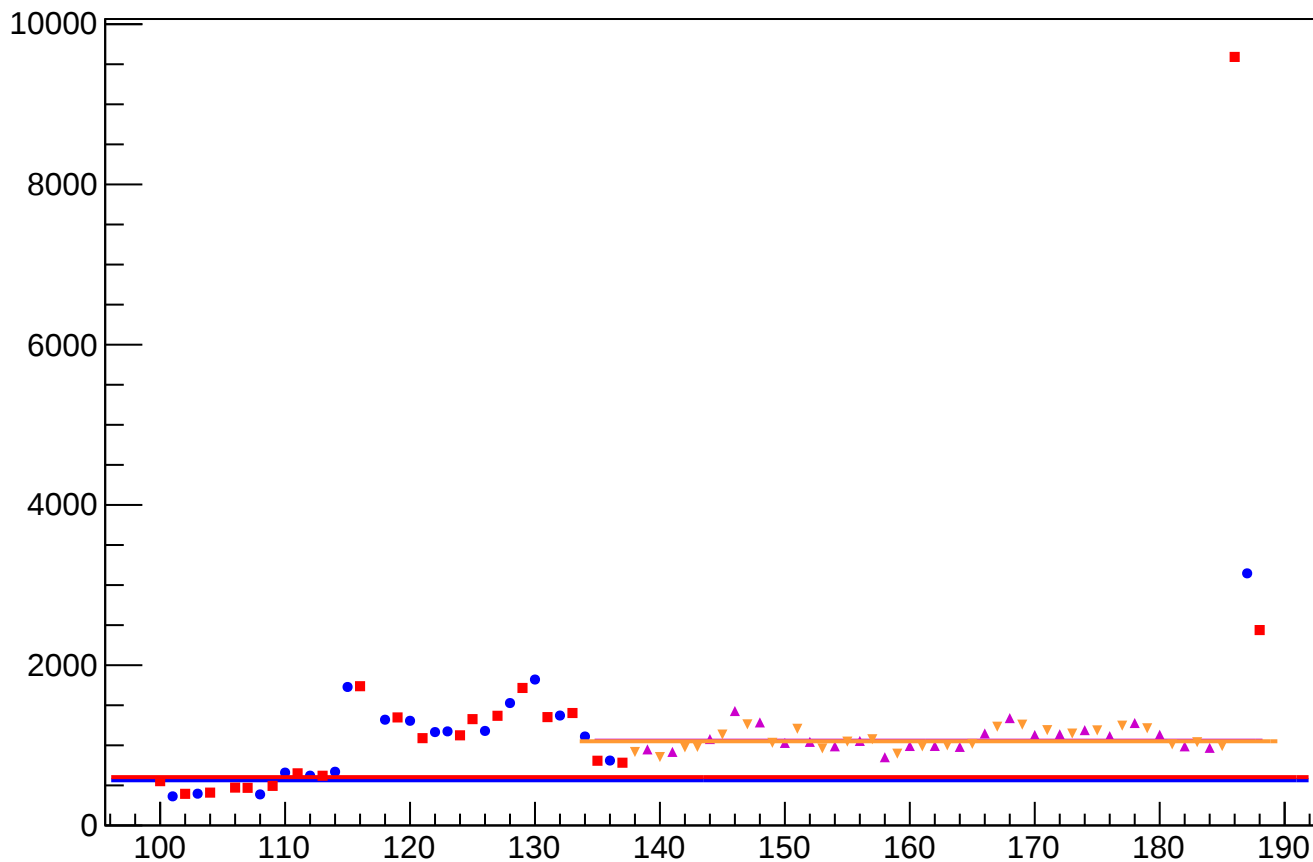
Right: -176.457 $\pm$ 175.202 χ^2 /NDF: 40.4/38

In: -89.290 $\pm$ 178.864 χ^2 /NDF:51.9/40

Out: -67.031 $\pm$ 173.797 χ^2 /NDF:55.3/45

All: -77.841 $\pm$ 124.646 χ^2 /NDF: 107.1/86

asym_sam6_rms vs Slug, Sign Corrected



Right In: 563.789+/-0.177 χ^2/NDF : 3414438.7/17

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 603.131+/-0.173 χ^2/NDF : 4478473.0/20

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

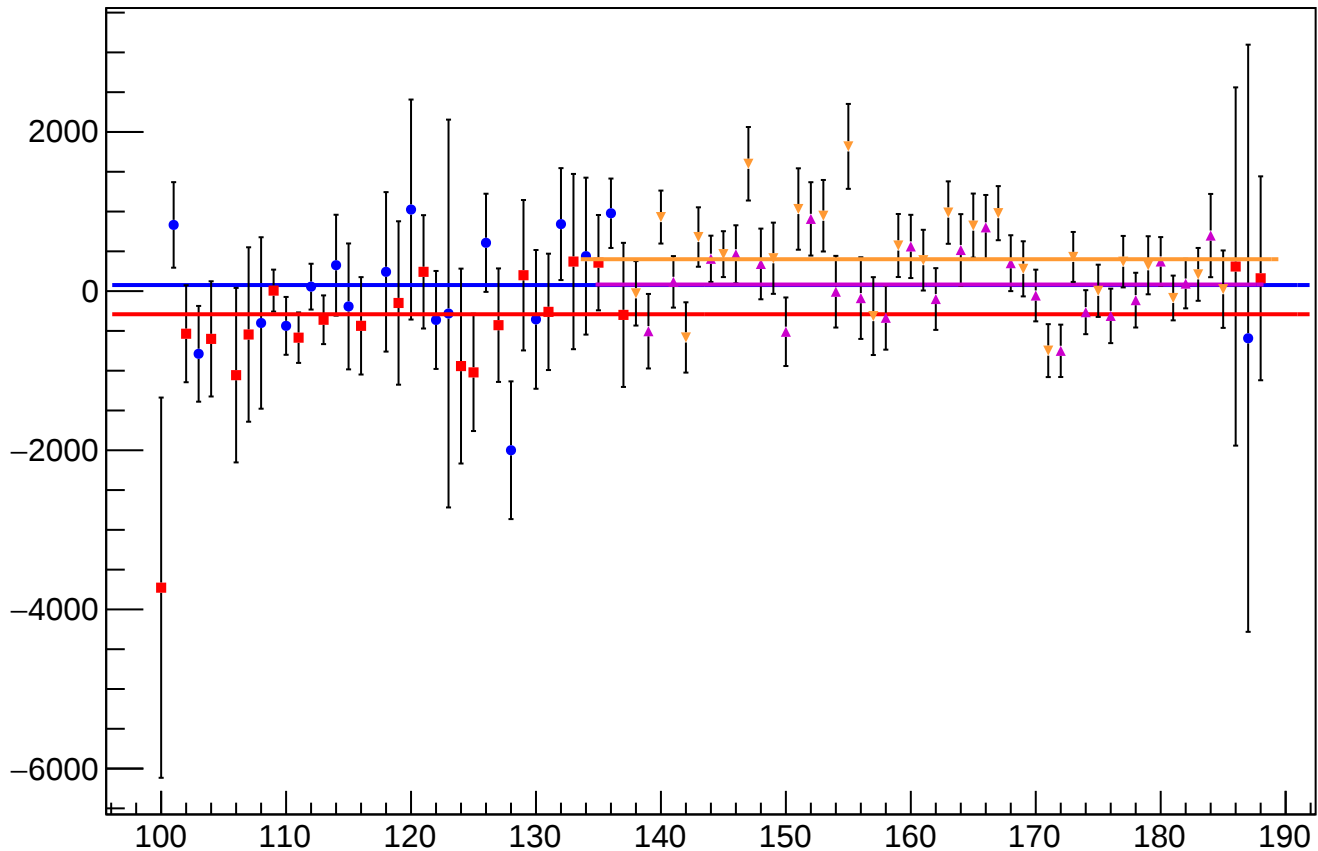
Right: 583.895+/-0.124 χ^2/NDF : 7918110.5/38

In: 806.209+/-0.126 χ^2/NDF : 7760362.3/40

Out: 825.590+/-0.123 χ^2/NDF : 8276685.9/45

All: 816.178+/-0.088 χ^2/NDF : 16049126.8/80

asym_sam7_mean vs Slug, Sign Corrected



Right In: 76.409 $\pm$ 143.162 χ^2 /NDF: 19.9/17

Left Out: 400.988 $\pm$ 74.546 χ^2 /NDF: 52.1/24

Right Out: -290.577 $\pm$ 128.941 χ^2 /NDF: 9.1/20

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

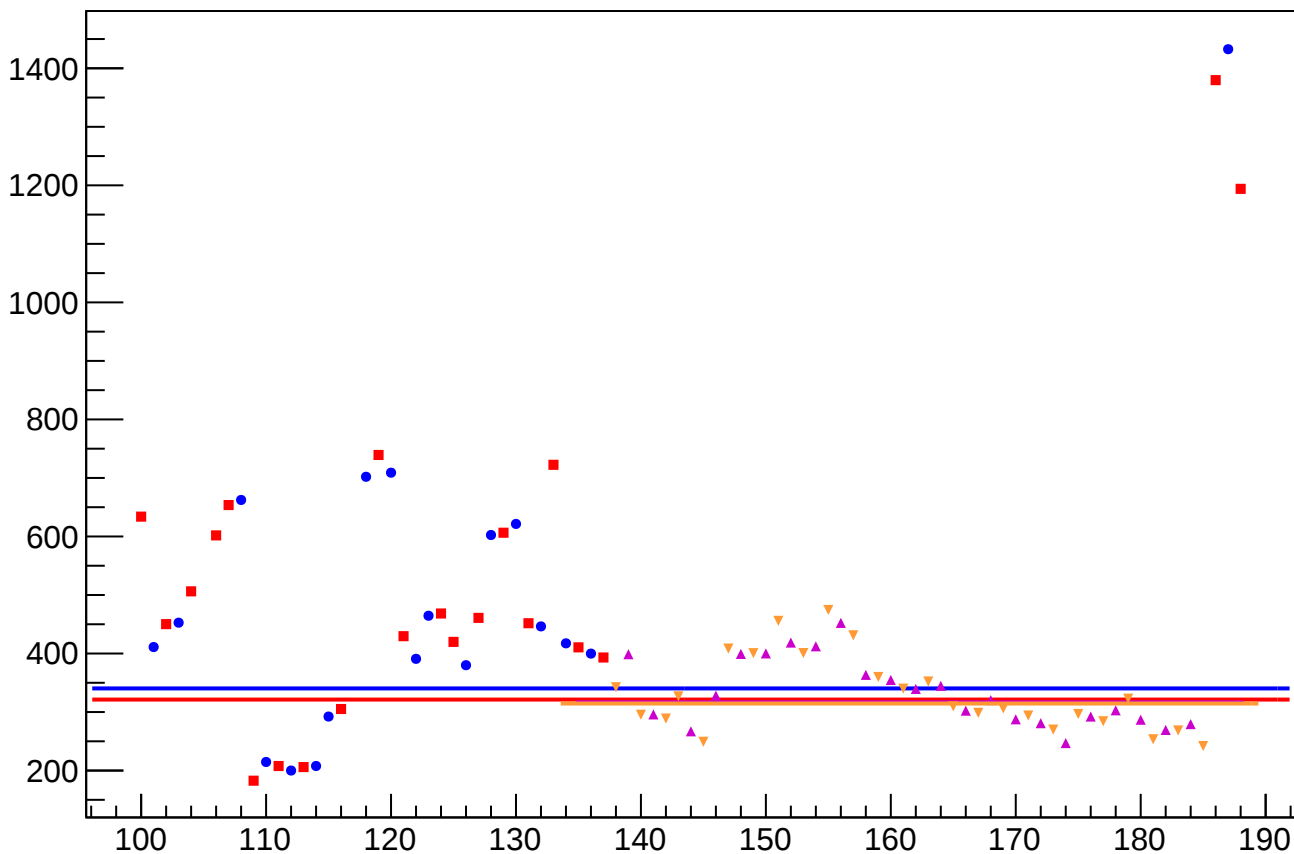
Right: -126.212 $\pm$ 95.809 χ^2 /NDF: 32.6/38

In: 81.438 $\pm$ 67.748 χ^2 /NDF: 48.9/40

Out: 227.740 $\pm$ 64.537 χ^2 /NDF: 82.7/45

All: 158.138 $\pm$ 46.728 χ^2 /NDF: 134.0/86

asym_sam7_rms vs Slug, Sign Corrected



Right In: 340.353+/-0.101 χ^2/NDF : 2183132.1/17

Left Out: 314.538+/-0.053 χ^2/NDF : 1112445.6/24

Right Out: 321.311+/-0.091 χ^2/NDF : 4121200.8/20

Left In: 316.647+/-0.054 χ^2/NDF : 920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

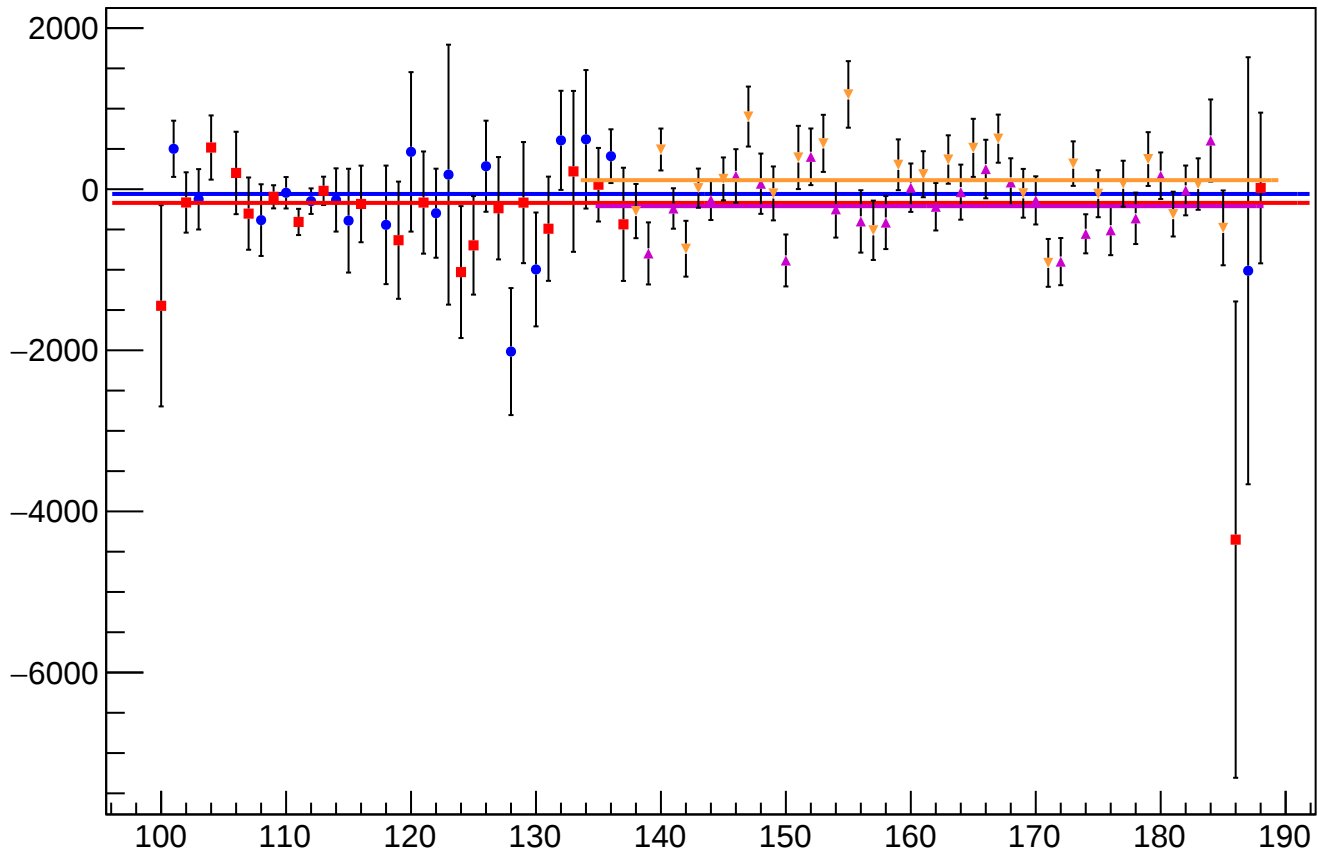
Right: 329.840+/-0.068 χ^2/NDF : 6323867.7/38

In: 321.956+/-0.048 χ^2/NDF : 3146565.2/40

Out: 316.235+/-0.046 χ^2/NDF : 5237782.7/45

All: 318.957+/-0.033 χ^2/NDF : 8391823.8/86

asym_sam8_mean vs Slug, Sign Corrected



Right In: -58.968 ± 90.641 χ^2/NDF : 16.7/17

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -169.904 ± 76.683 χ^2/NDF : 12.8/20

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

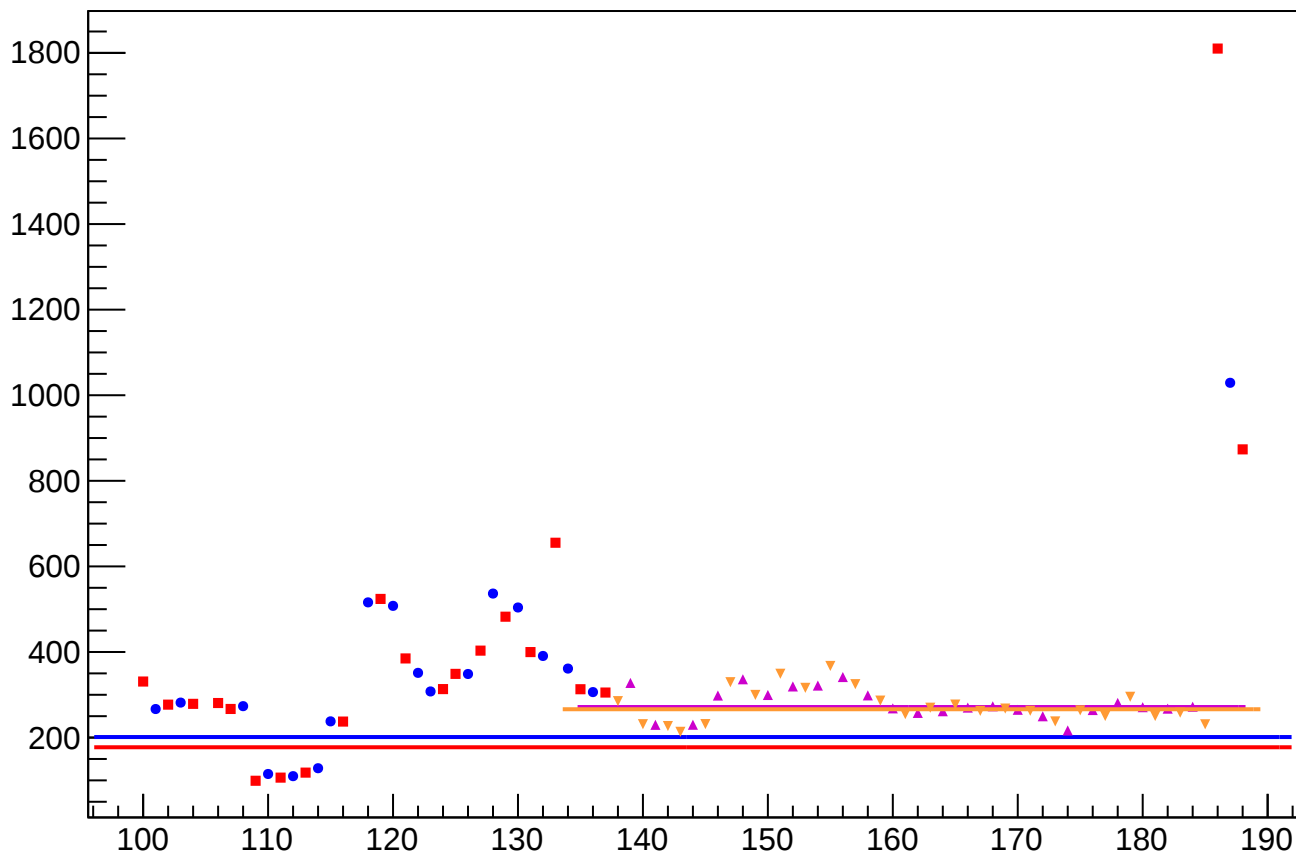
Right: -123.626 ± 58.543 χ^2/NDF : 30.4/38

In: -158.475 ± 53.095 χ^2/NDF : 47.7/40

Out: -0.686 ± 48.513 χ^2/NDF : 70.1/45

All: -72.480 ± 35.814 χ^2/NDF : 122.6/86

asym_sam8_rms vs Slug, Sign Corrected



Right In: 201.253+/-0.064 χ^2/NDF : 3577159.6/17

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 177.365+/-0.054 χ^2/NDF : 5811992.1/20

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

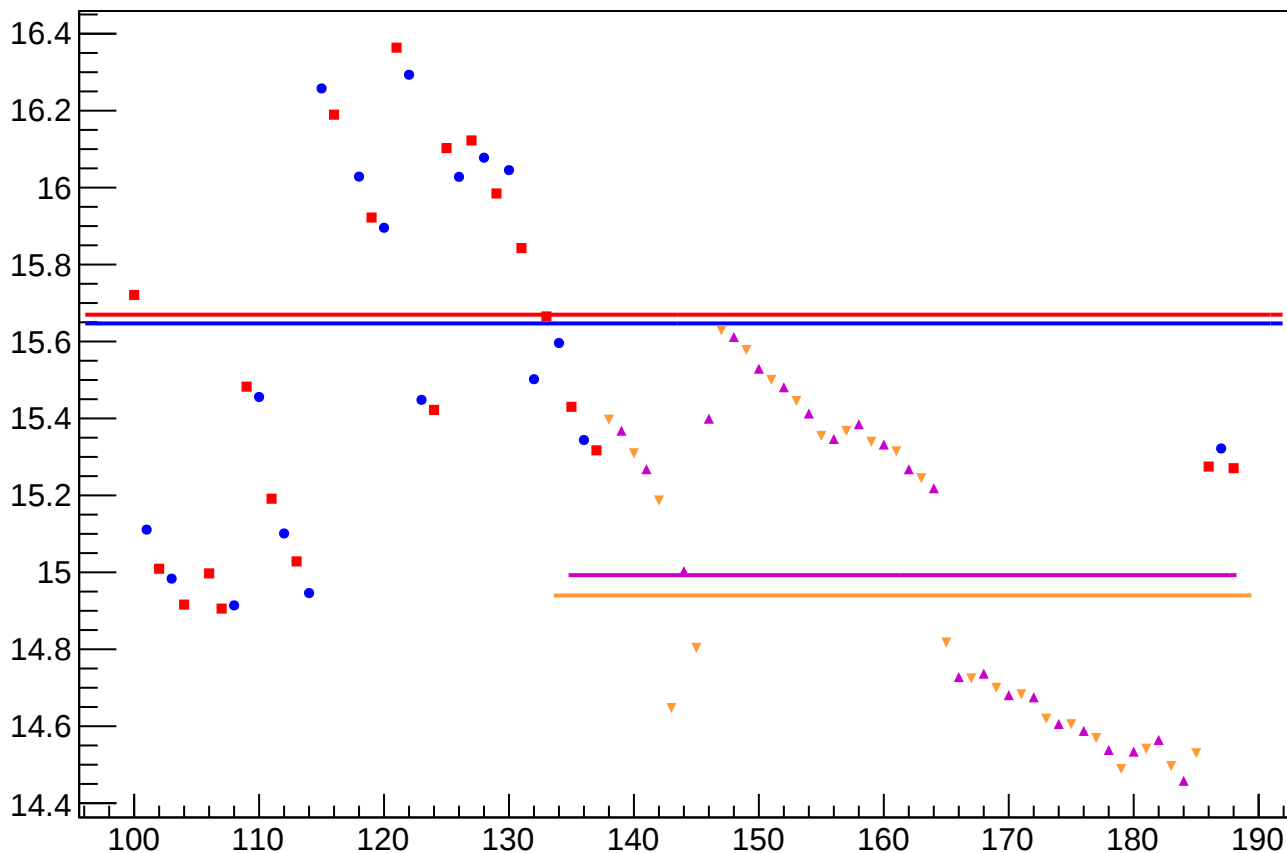
Right: 187.330+/-0.041 χ^2/NDF : 9470109.2/38

In: 247.341+/-0.038 χ^2/NDF : 4886207.9/40

Out: 230.649+/-0.034 χ^2/NDF : 8071683.5/45

All: 238.243+/-0.025 χ^2/NDF : 13065620.4/86

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.647 $\pm$ 0.000 χ^2 /NDF: 5455628994.4/17

Left Out: 14.940 $\pm$ 0.000 χ^2 /NDF: 24199653913.9/24

Right Out: 15.670 $\pm$ 0.000 χ^2 /NDF: 5532082013.0/20

Left In: 14.993 $\pm$ 0.000 χ^2 /NDF: 22023159634.7/22

Left: 14.965 $\pm$ 0.000 χ^2 /NDF: 46444749587.5/47

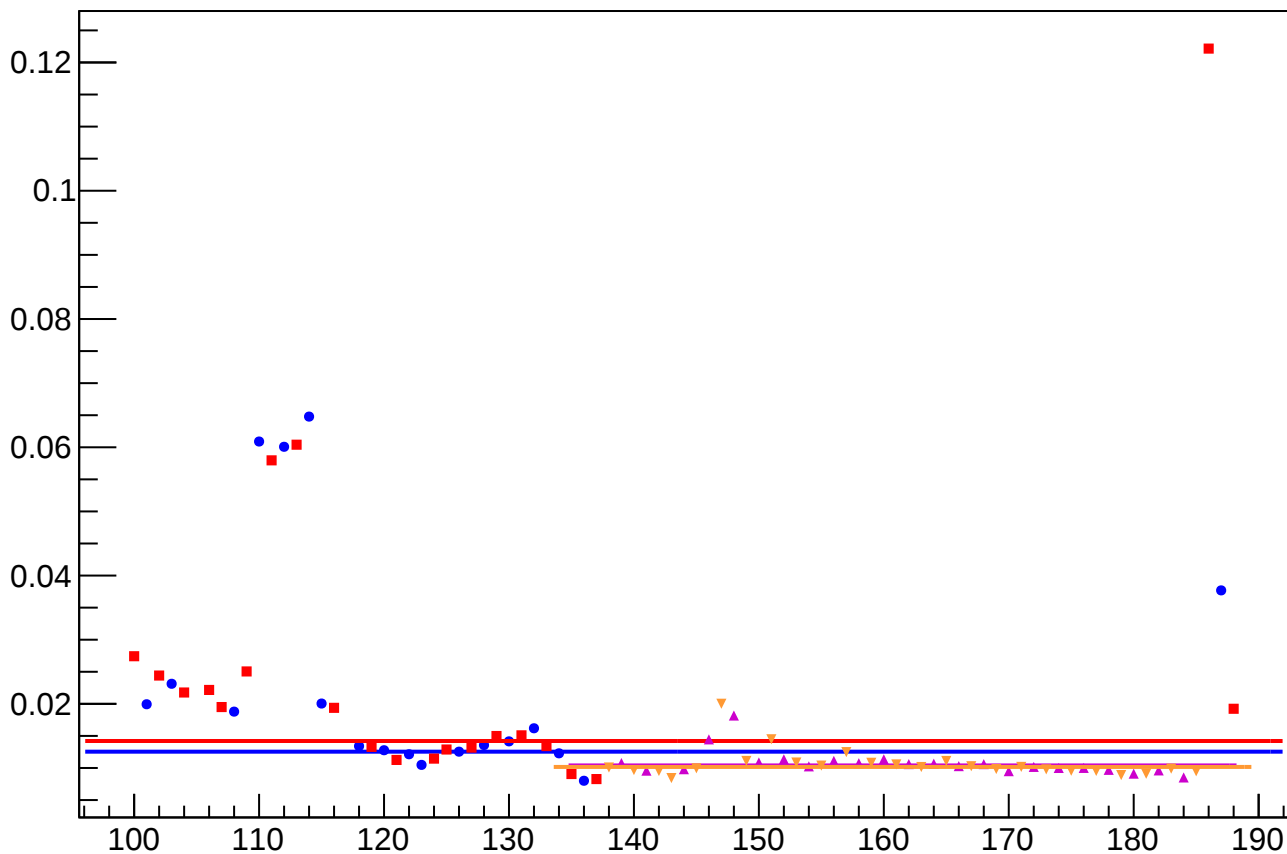
Right: 15.658 $\pm$ 0.000 χ^2 /NDF: 10996040505.5/38

In: 15.110 $\pm$ 0.000 χ^2 /NDF: 39141003037.3/40

Out: 15.054 $\pm$ 0.000 χ^2 /NDF: 43719268145.9/45

All: 15.081 $\pm$ 0.000 χ^2 /NDF: 83153826197.9

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2272225.3/17

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2768144.9/20

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

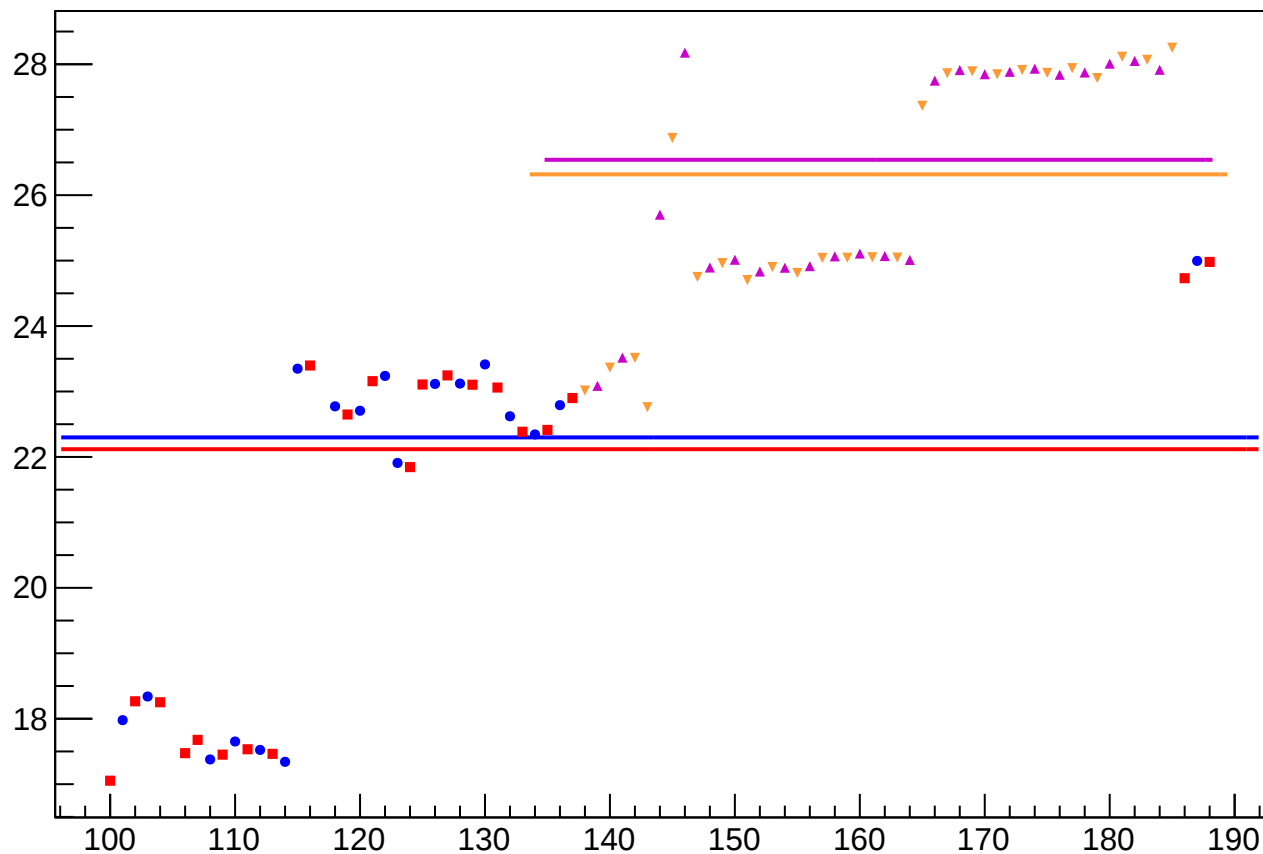
Right: 0.013+/-0.000 χ^2/NDF : 5129413.3/38

In: 0.011+/-0.000 χ^2/NDF : 3067271.1/40

Out: 0.011+/-0.000 χ^2/NDF : 4344398.0/45

All: 0.011+/-0.000 χ^2/NDF : 7411722.9/86

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.299+/-0.000 χ^2 /NDF: 941922474.8/17

Left Out: 26.318+/-0.000 χ^2 /NDF: 4715403741.0/24

Right Out: 22.118+/-0.000 χ^2 /NDF: 1168174457.8/20

Left In: 26.540+/-0.000 χ^2 /NDF: 3309392772.6/22

Left: 26.424+/-0.000 χ^2 /NDF: 8058273722.3/47

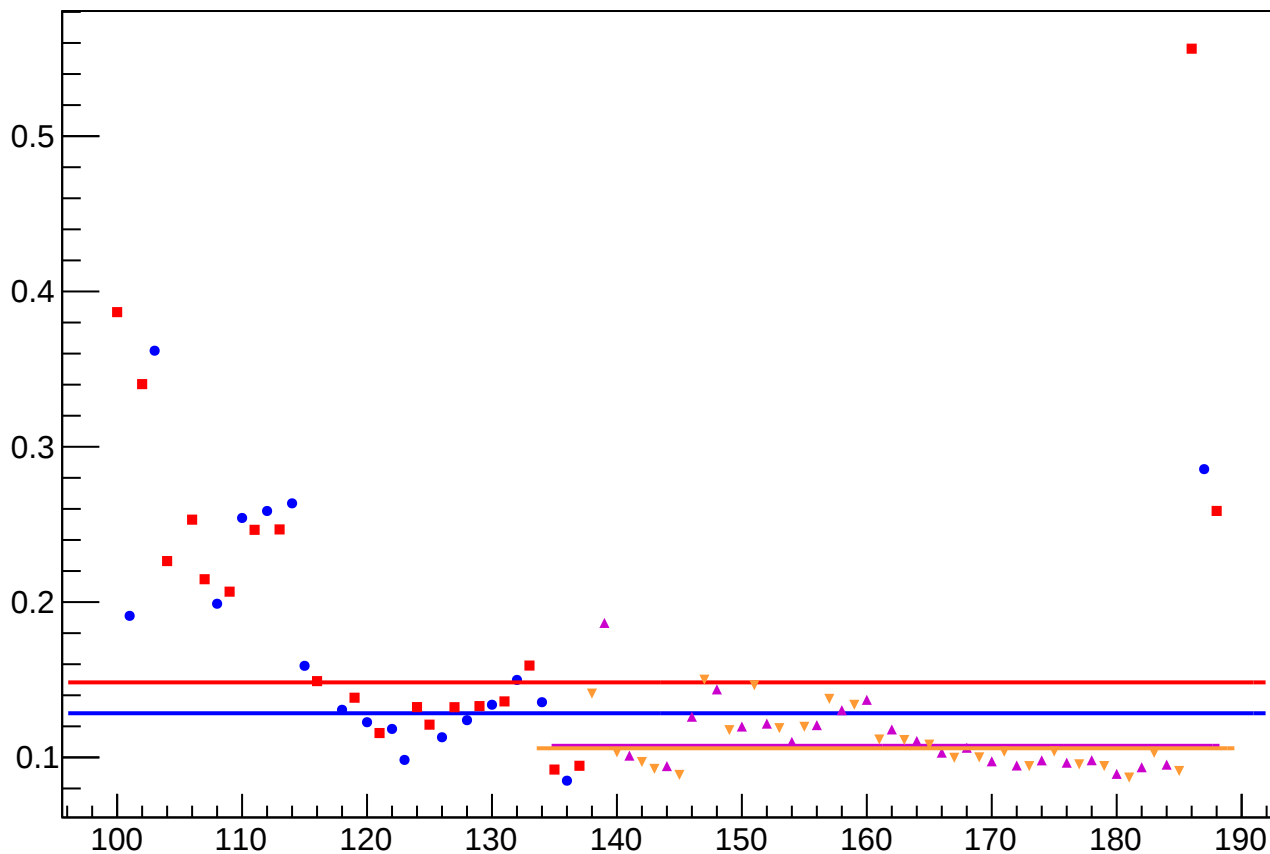
Right: 22.212+/-0.000 χ^2 /NDF: 2114981163.2/38

In: 25.717+/-0.000 χ^2 /NDF: 8777207048.8/40

Out: 25.604+/-0.000 χ^2 /NDF: 10107489346.7/45

All: 25.659+/-0.000 χ^2 /NDF: 18895090860.8

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.128+/-0.000 χ^2/NDF : 1577932.7/17

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.148+/-0.000 χ^2/NDF : 2180651.5/20

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

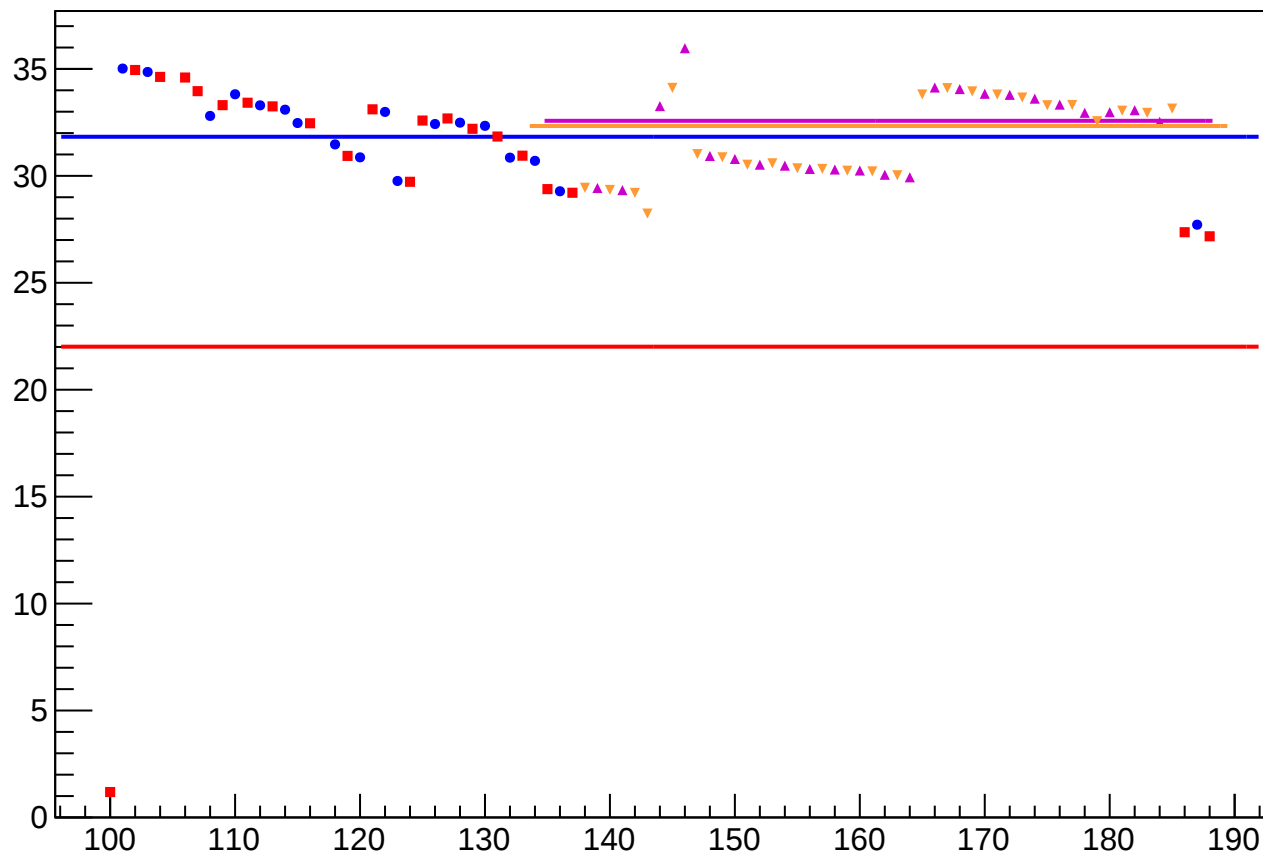
Right: 0.138+/-0.000 χ^2/NDF : 3877031.5/38

In: 0.112+/-0.000 χ^2/NDF : 2570134.9/40

Out: 0.113+/-0.000 χ^2/NDF : 3775624.0/45

All: 0.112+/-0.000 χ^2/NDF : 6349715.6/86

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.828+/-0.000

χ^2/NDF : 2003337251.5/17

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Right: 25.900+/-0.000

χ^2/NDF : 274314433203.3/38

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

In: 32.458+/-0.000

χ^2/NDF : 14141363726.8/40

Right Out: 22.013+/-0.000

χ^2/NDF : 230186612474.1/20

Out: 30.140+/-0.000

χ^2/NDF : 335631765904.1/45

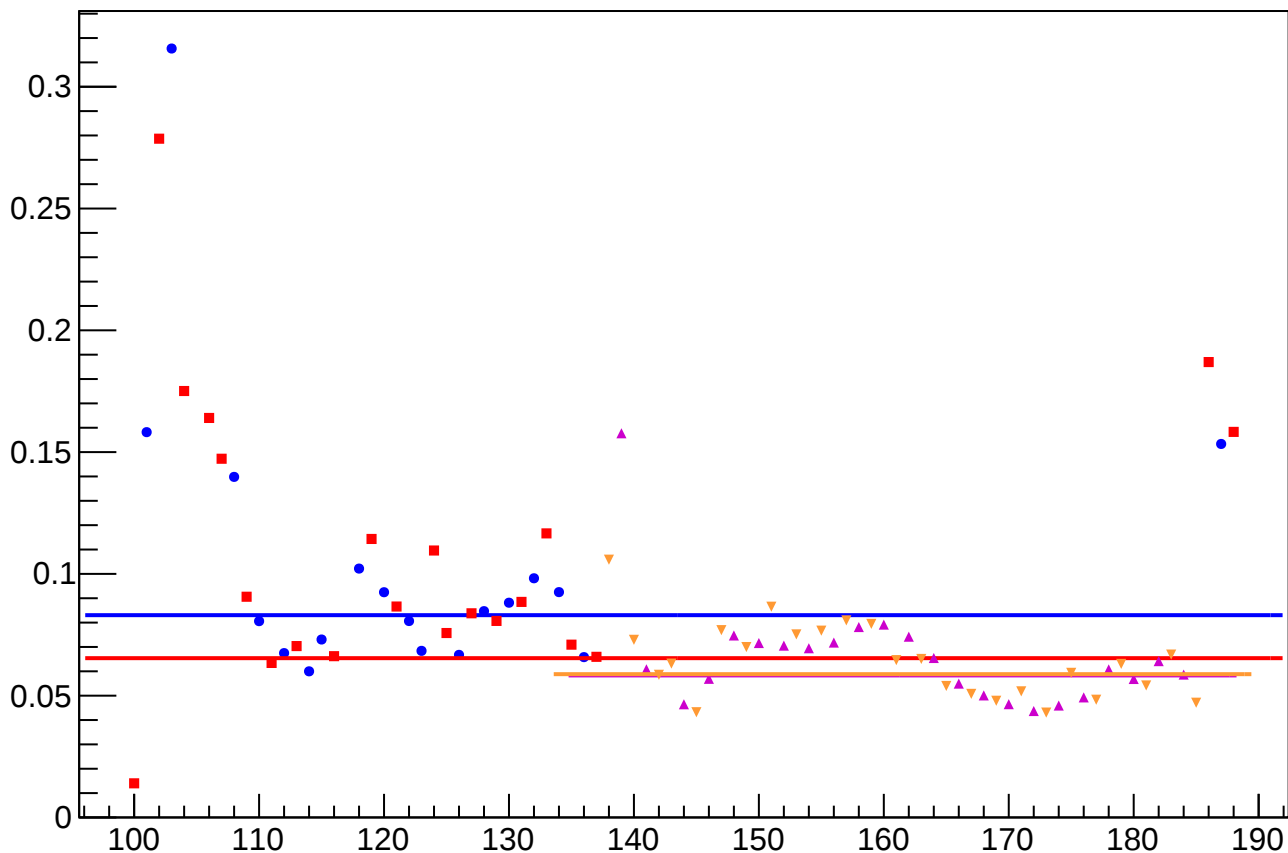
Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

All: 31.234+/-0.000

χ^2/NDF : 362948791288.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.083+/-0.000 χ^2/NDF : 1241576.6/17

Left Out: 0.059+/-0.000 χ^2/NDF : 1402605.2/24

Right Out: 0.065+/-0.000 χ^2/NDF : 4525849.9/20

Left In: 0.058+/-0.000 χ^2/NDF : 1525476.4/22

Left: 0.059+/-0.000 χ^2/NDF : 2929140.7/47

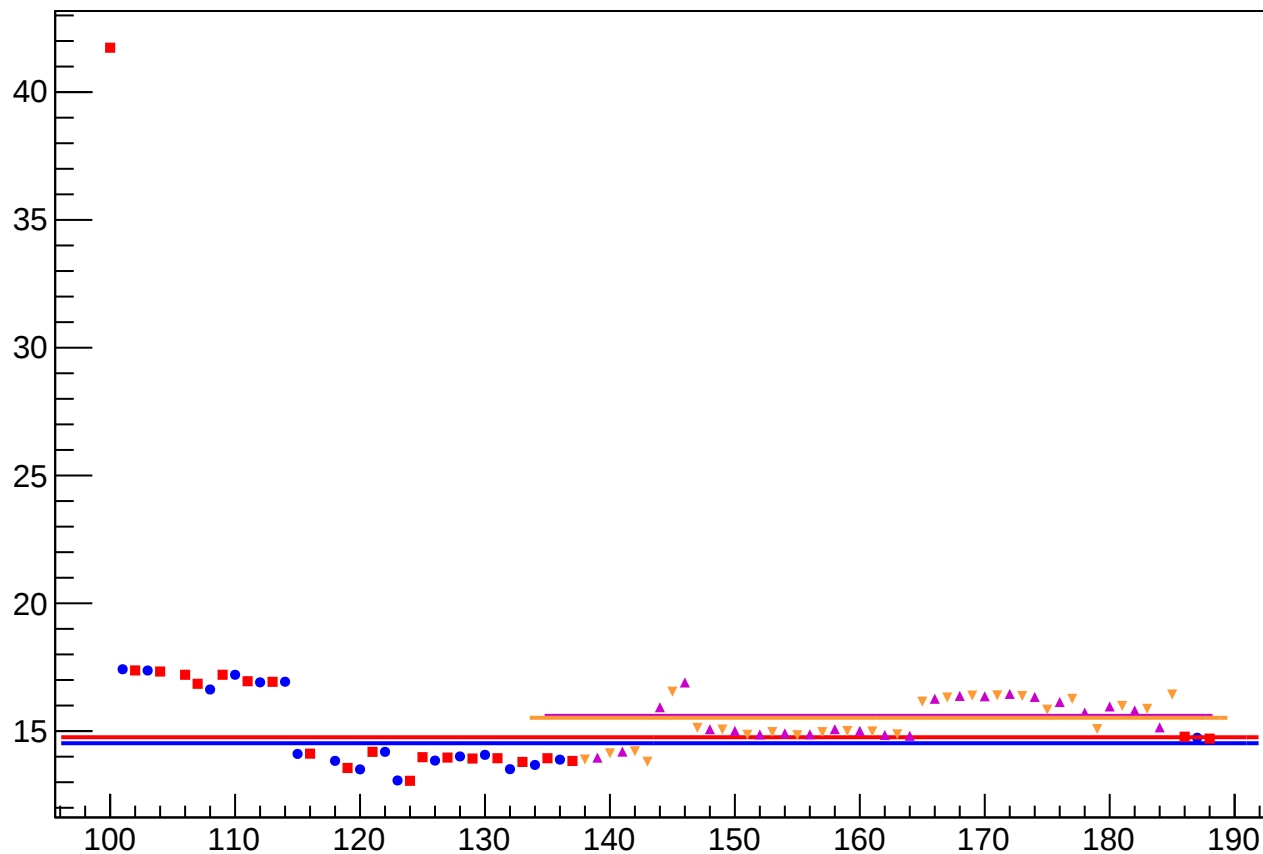
Right: 0.072+/-0.000 χ^2/NDF : 6039941.4/38

In: 0.062+/-0.000 χ^2/NDF : 3515004.3/40

Out: 0.060+/-0.000 χ^2/NDF : 6003571.2/45

All: 0.061+/-0.000 χ^2/NDF : 9537184.0/86

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.525+/-0.000 χ^2/NDF : 1485663520.9/17

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.759+/-0.000 χ^2/NDF : 1903195507.8/20

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

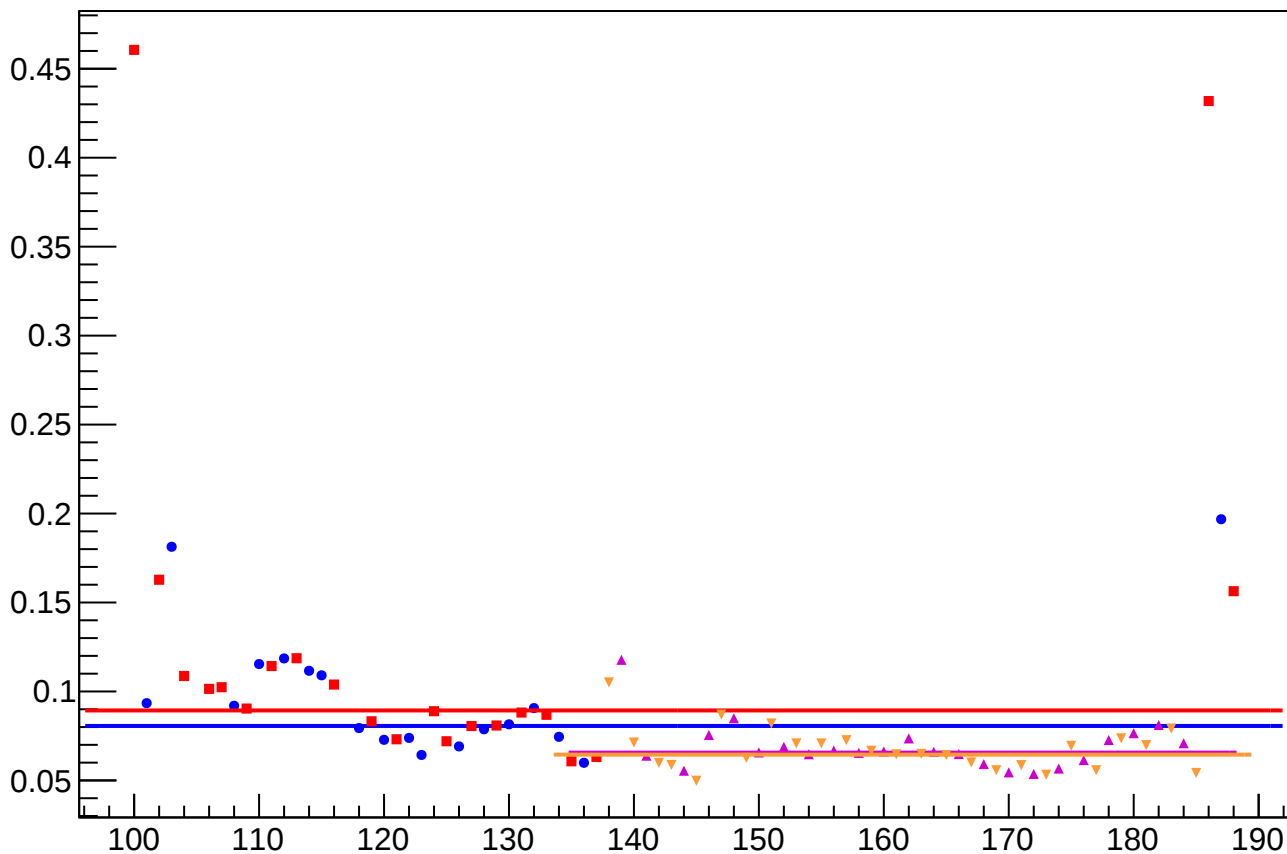
Right: 14.641+/-0.000 χ^2/NDF : 3412158059.3/38

In: 15.381+/-0.000 χ^2/NDF : 4183609035.6/40

Out: 15.382+/-0.000 χ^2/NDF : 4891628360.0/45

All: 15.381+/-0.000 χ^2/NDF : 9075240672.5/86

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.081+/-0.000 χ^2/NDF : 877047.5/17

Left Out: 0.064+/-0.000 χ^2/NDF : 761552.3/24

Right Out: 0.089+/-0.000 χ^2/NDF : 1534262.9/20

Left In: 0.066+/-0.000 χ^2/NDF : 714703.1/22

Left: 0.065+/-0.000 χ^2/NDF : 1481007.6/47

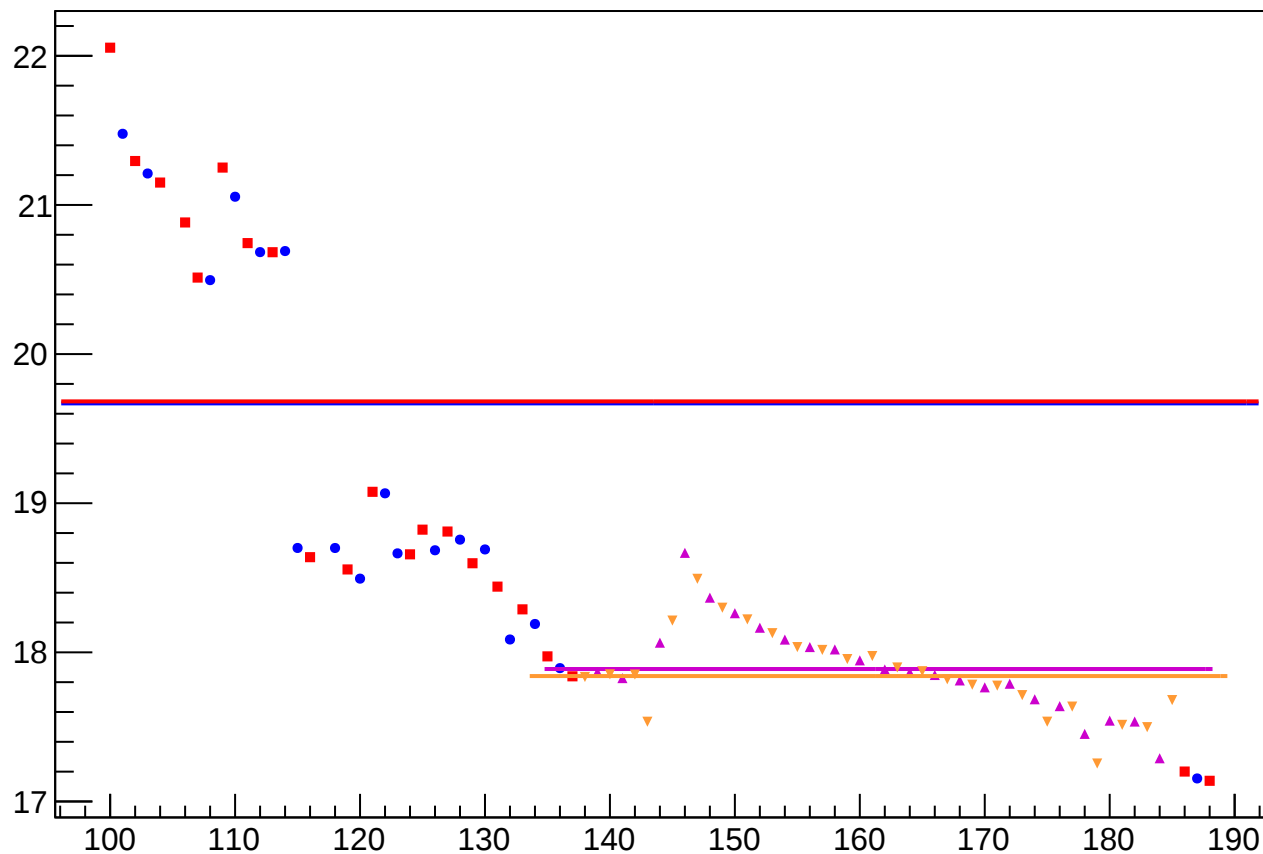
Right: 0.085+/-0.000 χ^2/NDF : 2475827.1/38

In: 0.069+/-0.000 χ^2/NDF : 1900736.9/40

Out: 0.069+/-0.000 χ^2/NDF : 3140396.1/45

All: 0.069+/-0.000 χ^2/NDF : 5041778.1/86

yield_sam5_mean vs Slug, Sign Corrected



Right In: 19.669+/-0.000 χ^2/NDF : 12454293324.4/17

Left Out: 17.841+/-0.000 χ^2/NDF : 1283287989.7/24

Right Out: 19.683+/-0.000 χ^2/NDF : 14539157602.4/20

Left In: 17.888+/-0.000 χ^2/NDF : 1203002311.3/22

Left: 17.864+/-0.000 χ^2/NDF : 2506375288.6/47

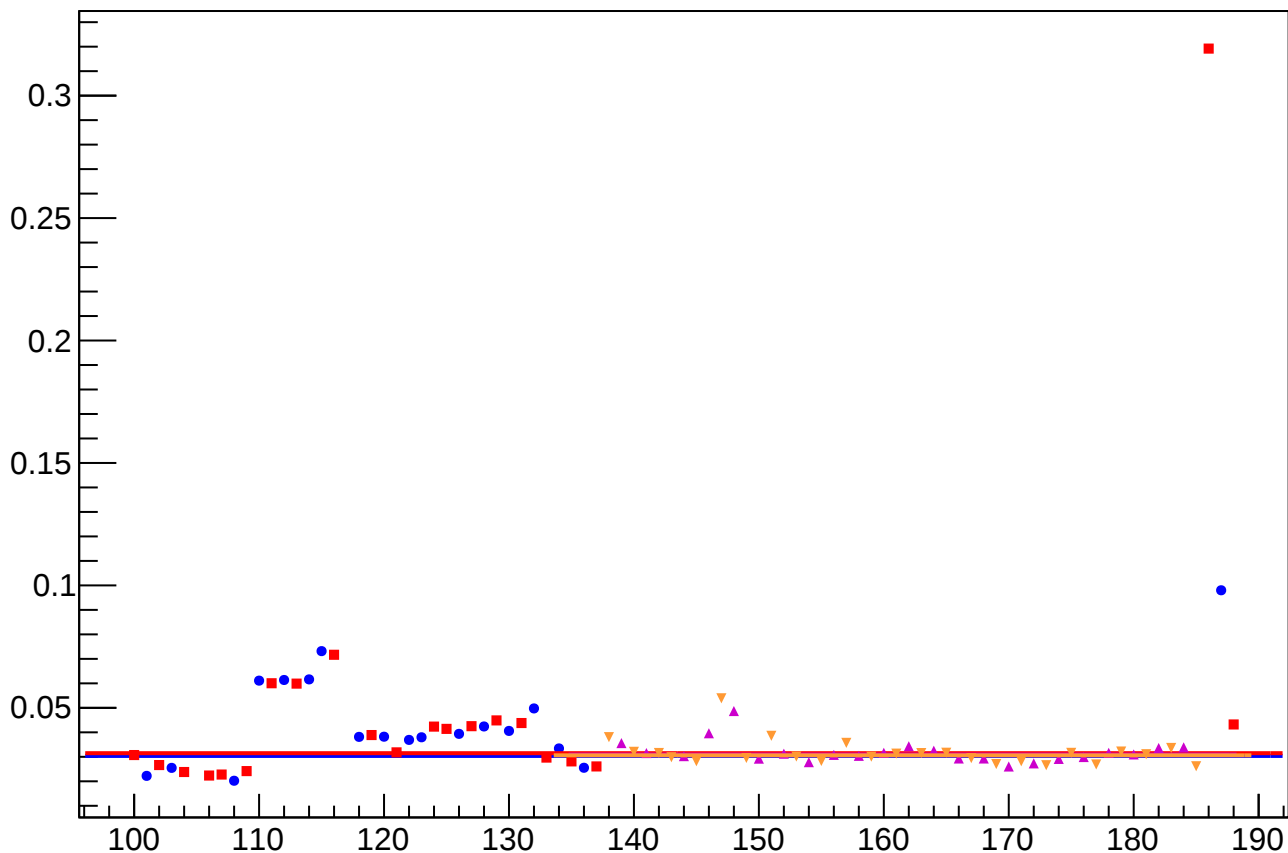
Right: 19.676+/-0.000 χ^2/NDF : 26994026543.1/38

In: 18.352+/-0.000 χ^2/NDF : 28013841411.1/40

Out: 18.332+/-0.000 χ^2/NDF : 32672396048.2/45

All: 18.342+/-0.000 χ^2/NDF : 60691424774.7

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 1454013.3/17

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.031 $\pm$ 0.000 χ^2 /NDF: 1891002.4/20

Left In: 0.031 $\pm$ 0.000 χ^2 /NDF:453524.6/22

Left: 0.031 $\pm$ 0.000 χ^2 /NDF: 1045553.8/47

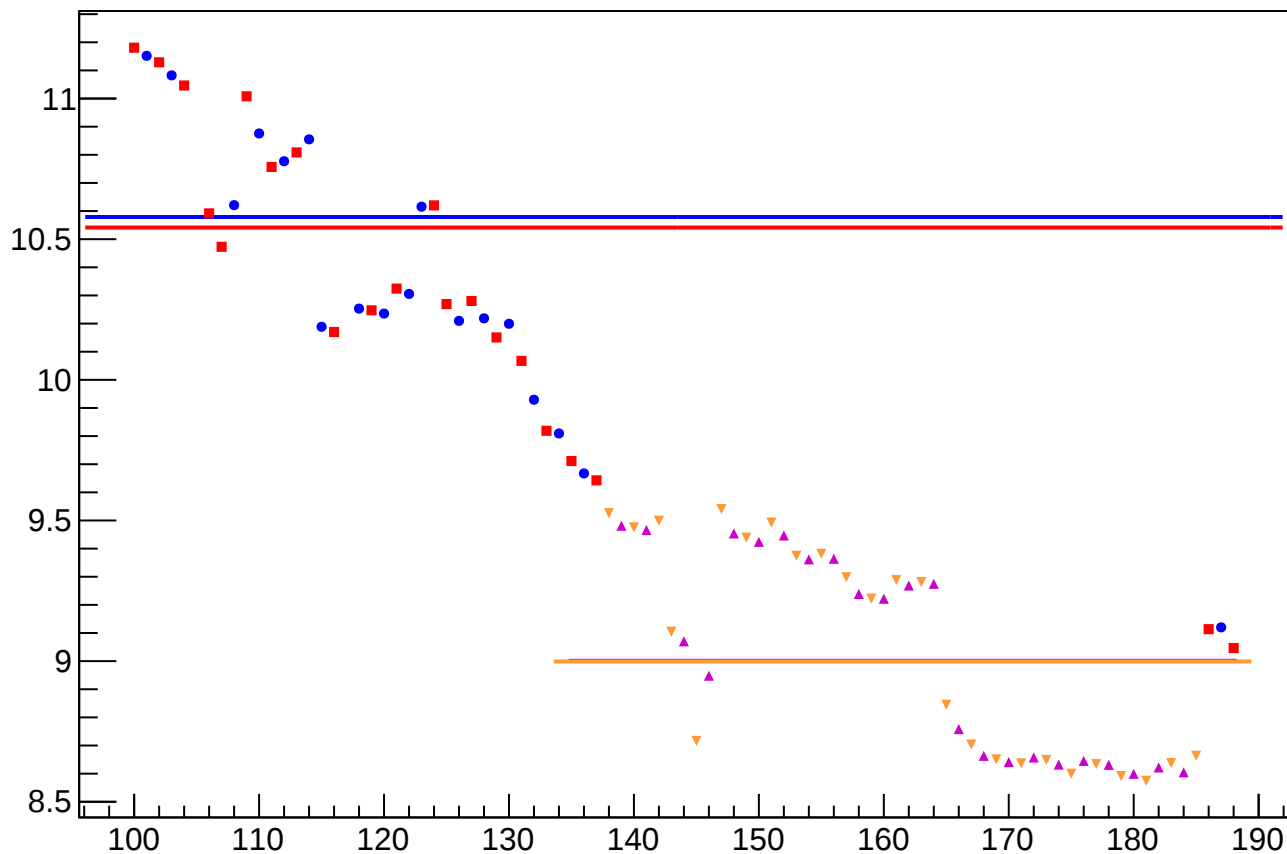
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 3353101.6/38

In: 0.031 $\pm$ 0.000 χ^2 /NDF:1910139.7/40

Out: 0.031 $\pm$ 0.000 χ^2 /NDF:2489157.5/45

All: 0.031 $\pm$ 0.000 χ^2 /NDF: 4399453.8/86

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.579 $\pm$ 0.000 χ^2 /NDF: 7612930737.4/17

Left Out: 8.999 $\pm$ 0.000 χ^2 /NDF: 6392583736.5/24

Right Out: 10.541 $\pm$ 0.000 χ^2 /NDF: 7187676481.8/20

Left In: 9.001 $\pm$ 0.000 χ^2 /NDF: 5314536205.4/22

Left: 9.000 $\pm$ 0.000 χ^2 /NDF: 11707260677.5/47

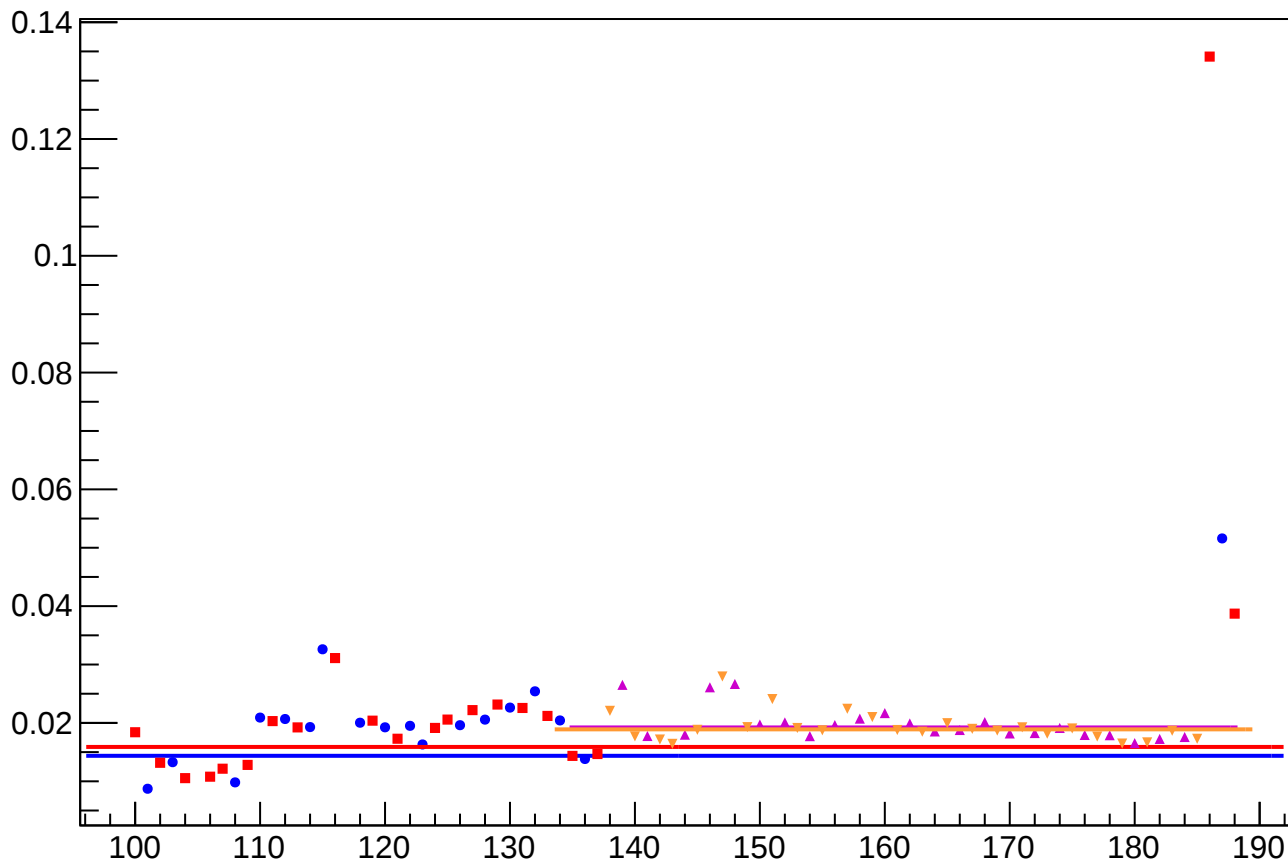
Right: 10.560 $\pm$ 0.000 χ^2 /NDF: 14818797925.2/38

In: 9.599 $\pm$ 0.000 χ^2 /NDF: 53267583859.5/40

Out: 9.546 $\pm$ 0.000 χ^2 /NDF: 53244731140.7/45

All: 9.572 $\pm$ 0.000 χ^2 /NDF: 106610110747.8

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1552960.0/17

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.016+/-0.000 χ^2/NDF : 2163855.9/20

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

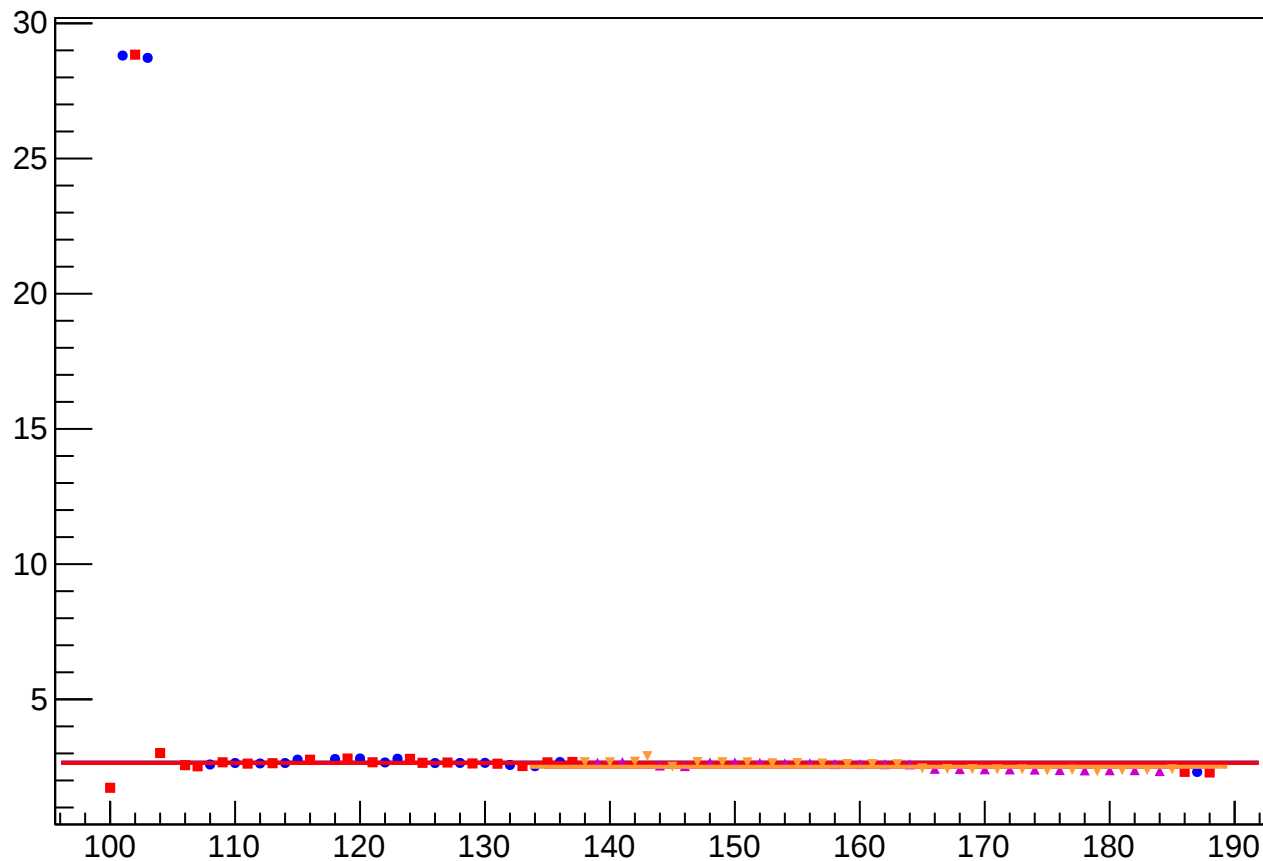
Right: 0.015+/-0.000 χ^2/NDF : 3776793.4/38

In: 0.017+/-0.000 χ^2/NDF : 2799805.3/40

Out: 0.018+/-0.000 χ^2/NDF : 2894090.8/45

All: 0.018+/-0.000 χ^2/NDF : 5707844.7/86

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.662 $\pm$ 0.000 χ^2 /NDF: 163935870848.5/17

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.649 $\pm$ 0.000 χ^2 /NDF: 76657620676.0/20

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

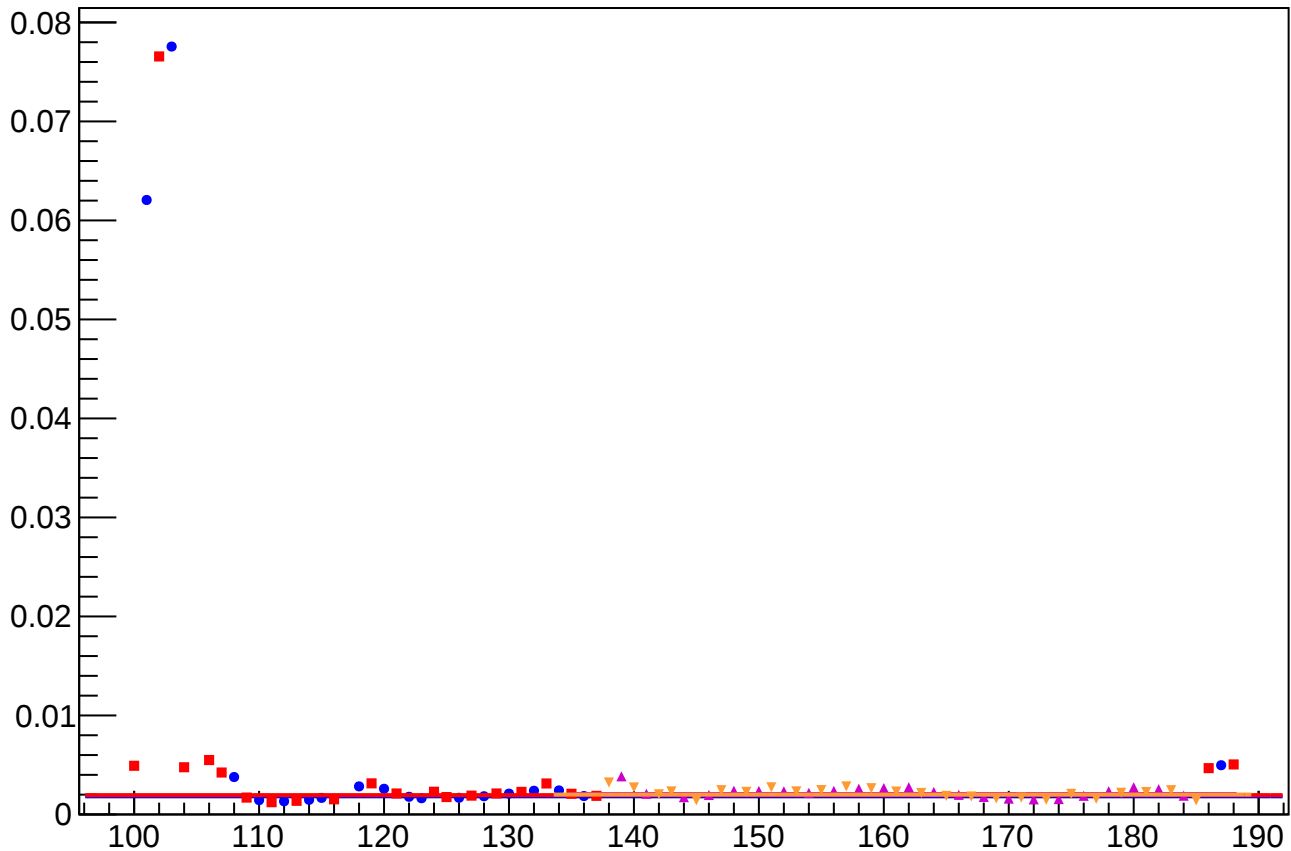
Right: 2.655 $\pm$ 0.000 χ^2 /NDF: 240724283512.5/38

In: 2.551 $\pm$ 0.000 χ^2 /NDF: 230457172337.3/40

Out: 2.547 $\pm$ 0.000 χ^2 /NDF: 161950781618.6/45

All: 2.549 $\pm$ 0.000 χ^2 /NDF: 392442295177.5

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2774648.0/17

Left Out: 0.002+/-0.000 χ^2/NDF : 1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3245386.8/20

Left In: 0.002+/-0.000 χ^2/NDF : 1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

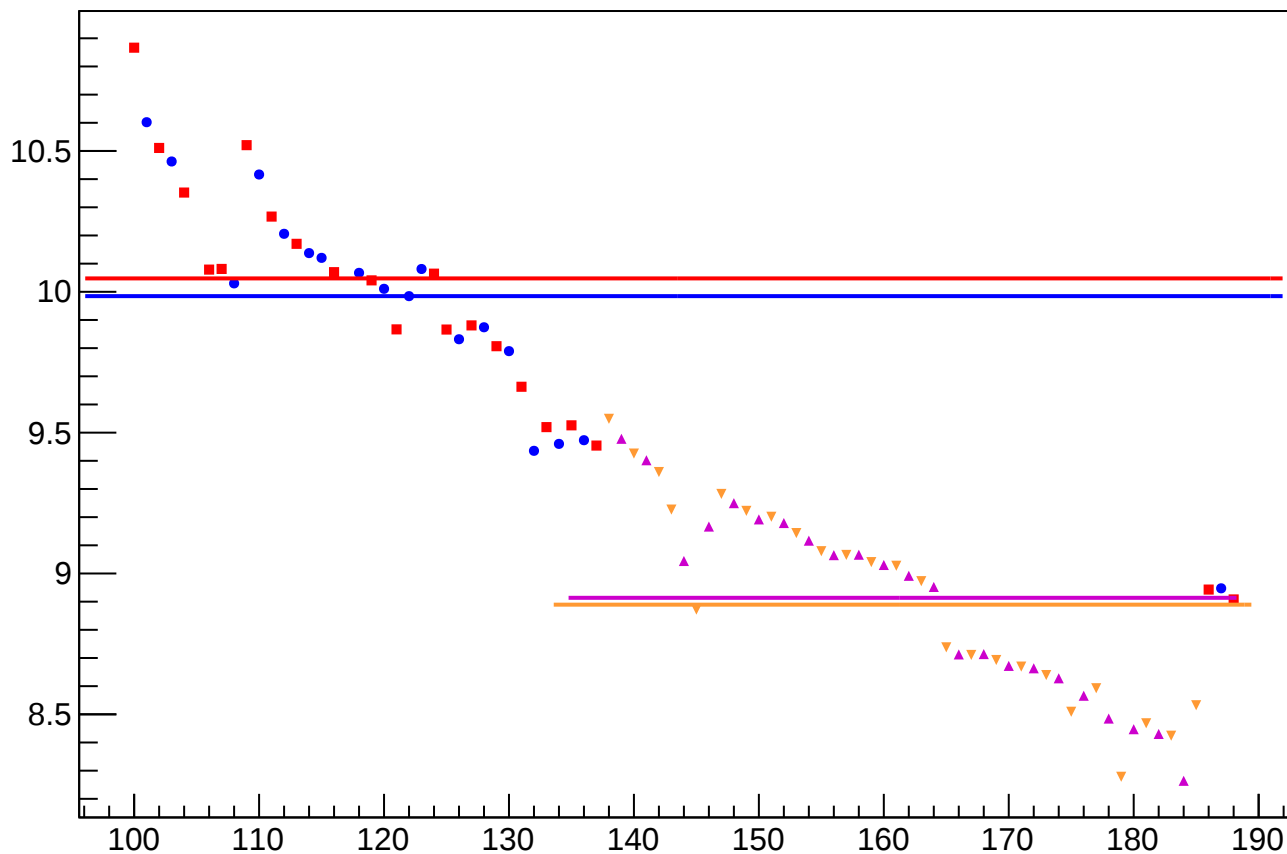
Right: 0.002+/-0.000 χ^2/NDF : 6040861.9/38

In: 0.002+/-0.000 χ^2/NDF : 4177779.2/40

Out: 0.002+/-0.000 χ^2/NDF : 4720545.2/45

All: 0.002+/-0.000 χ^2/NDF : 8898337.6/86

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.985+/-0.000 χ^2/NDF : 19764624599.8/17

Left Out: 8.889+/-0.000 χ^2/NDF : 34704694045.9/24

Right Out: 10.048+/-0.000 χ^2/NDF : 22279932916.9/20

Left In: 8.914+/-0.000 χ^2/NDF : 28497227562.7/22

Left: 8.901+/-0.000 χ^2/NDF : 63312247922.6/47

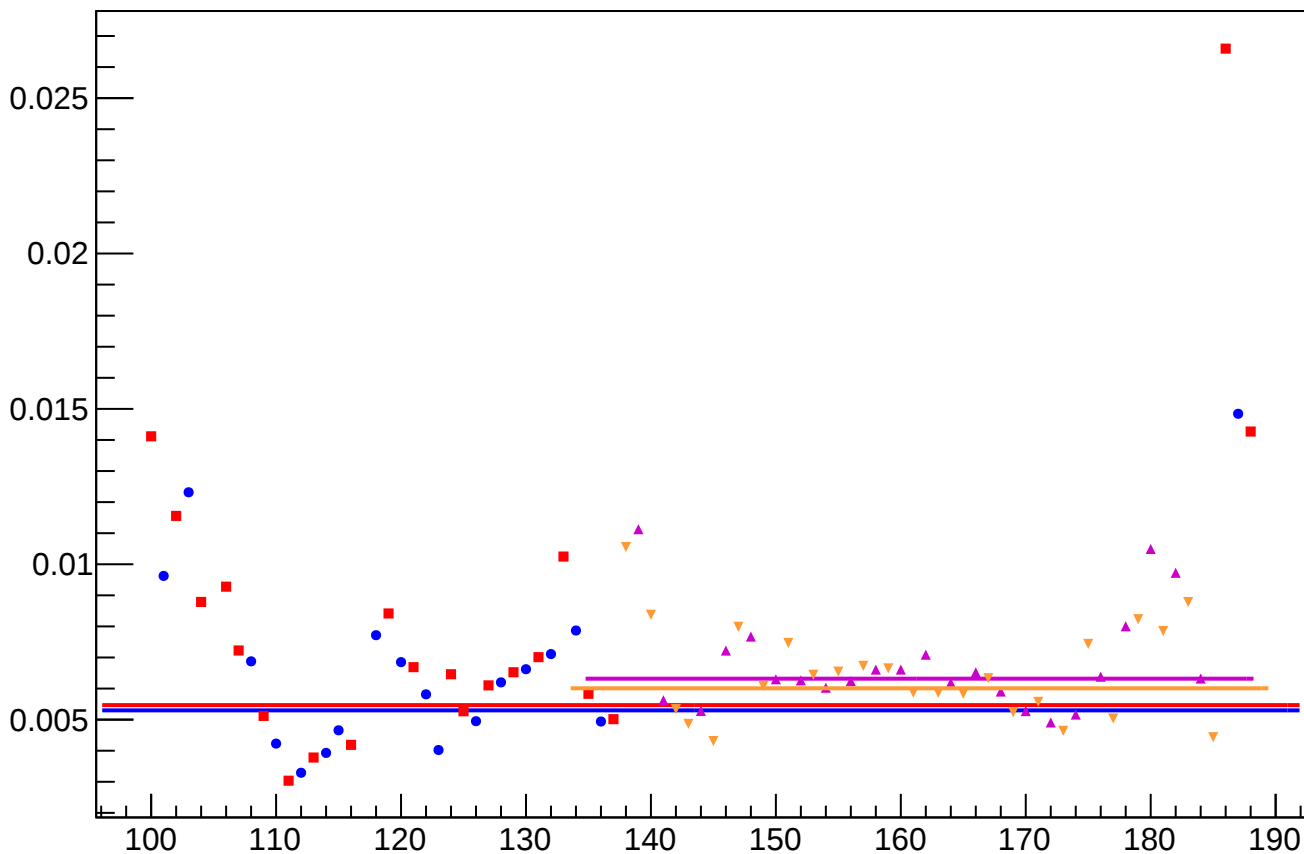
Right: 10.017+/-0.000 χ^2/NDF : 42418067885.4/38

In: 9.281+/-0.000 χ^2/NDF : 185262364883.2/40

Out: 9.269+/-0.000 χ^2/NDF : 234060195468.2/45

All: 9.275+/-0.000 χ^2/NDF : 419362994397.5

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1369409.9/17

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2805946.0/20

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

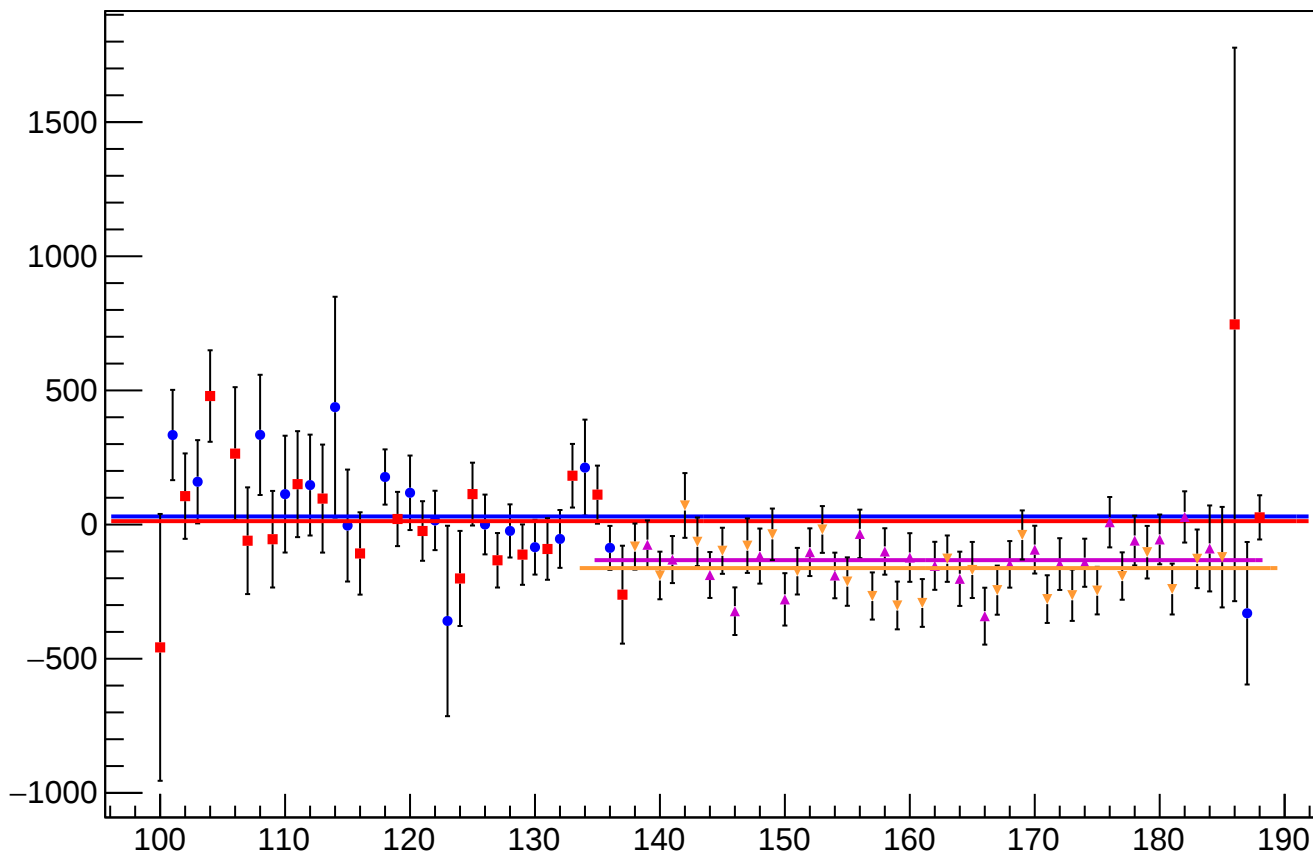
Right: 0.005+/-0.000 χ^2/NDF : 4180758.4/38

In: 0.006+/-0.000 χ^2/NDF :2704880.6/40

Out: 0.006+/-0.000 χ^2/NDF :4195936.0/45

All: 0.006+/-0.000 χ^2/NDF : 6911325.0/86

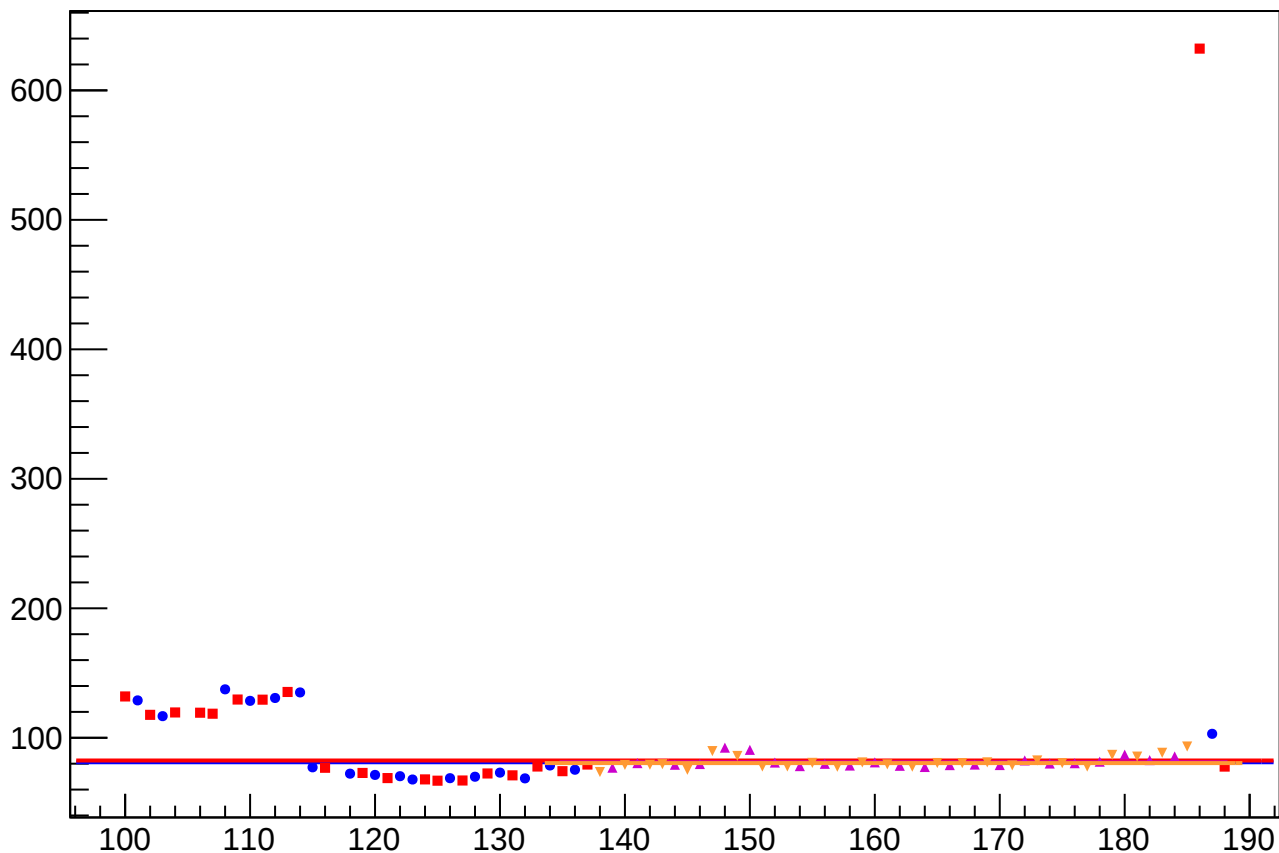
reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: 30.263 ± 32.105 $\chi^2/\text{NDF}: 18.2/17$
 Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$
 Right Out: 12.784 ± 29.968 $\chi^2/\text{NDF}: 23.4/20$
 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: 20.922 ± 21.907 $\chi^2/\text{NDF}: 41.7/38$
 In: -88.995 ± 16.606 $\chi^2/\text{NDF}: 57.7/40$
 Out: -112.964 ± 15.892 $\chi^2/\text{NDF}: 73.6/45$
 All: -101.506 ± 11.481 $\chi^2/\text{NDF}: 132.4/86$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 81.107 $\pm$ 0.023 χ^2 /NDF: 821666.5/17

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 82.463 $\pm$ 0.021 χ^2 /NDF: 1483188.0/20

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

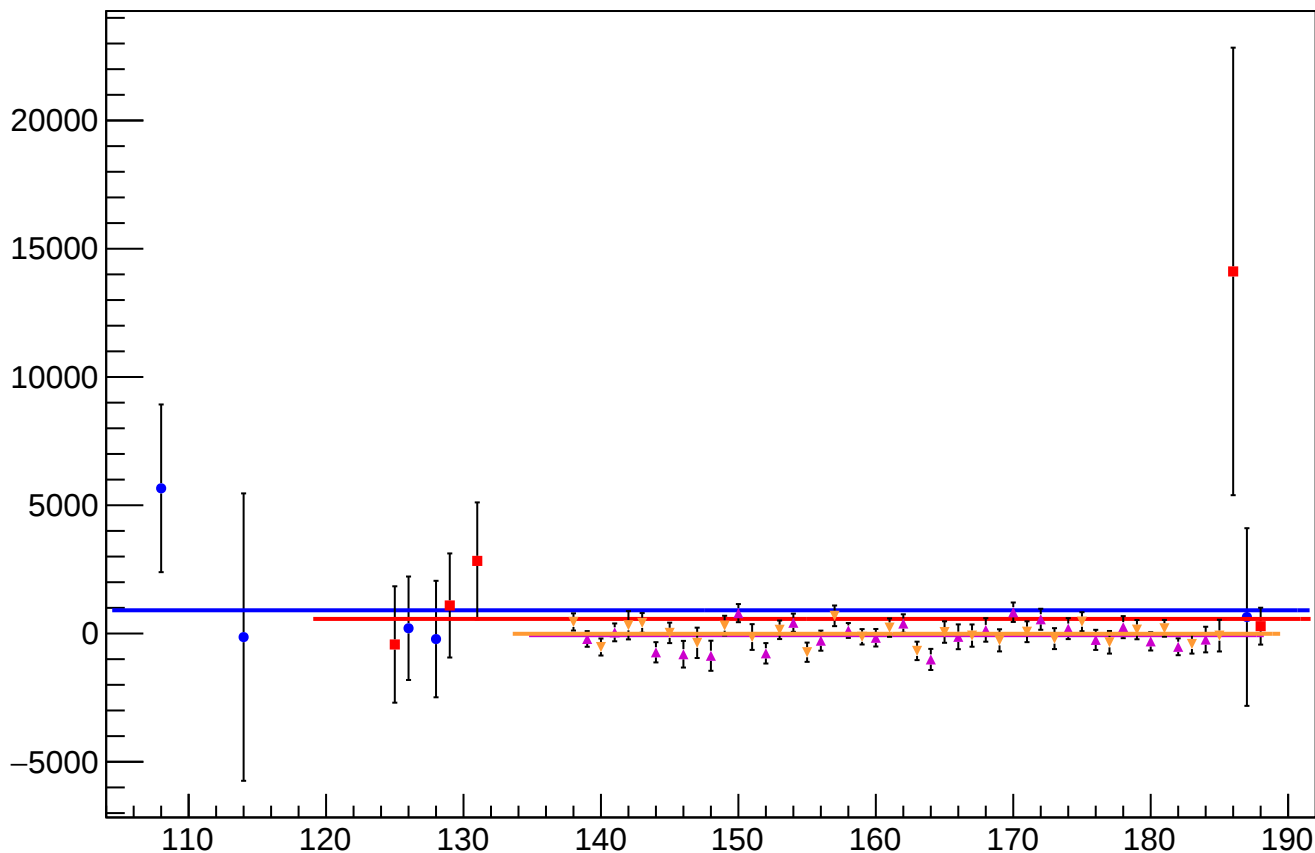
Right: 81.831 $\pm$ 0.015 χ^2 /NDF: 2306761.7/38

In: 81.039 $\pm$ 0.012 χ^2 /NDF: 893929.0/40

Out: 81.022 $\pm$ 0.011 χ^2 /NDF: 1579559.1/45

All: 81.030 $\pm$ 0.008 χ^2 /NDF: 2473489.1/86

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: 905.838+/-1241.497 χ^2/NDF : 2.5/4

Left Out: -10.486+/-78.391 χ^2/NDF : 22.5/24

Right Out: 568.981+/-622.829 χ^2/NDF : 3.8/4

Left In: -64.591+/-80.047 χ^2/NDF : 37.4/22

Left: -36.973+/-56.007 χ^2/NDF : 60.2/47

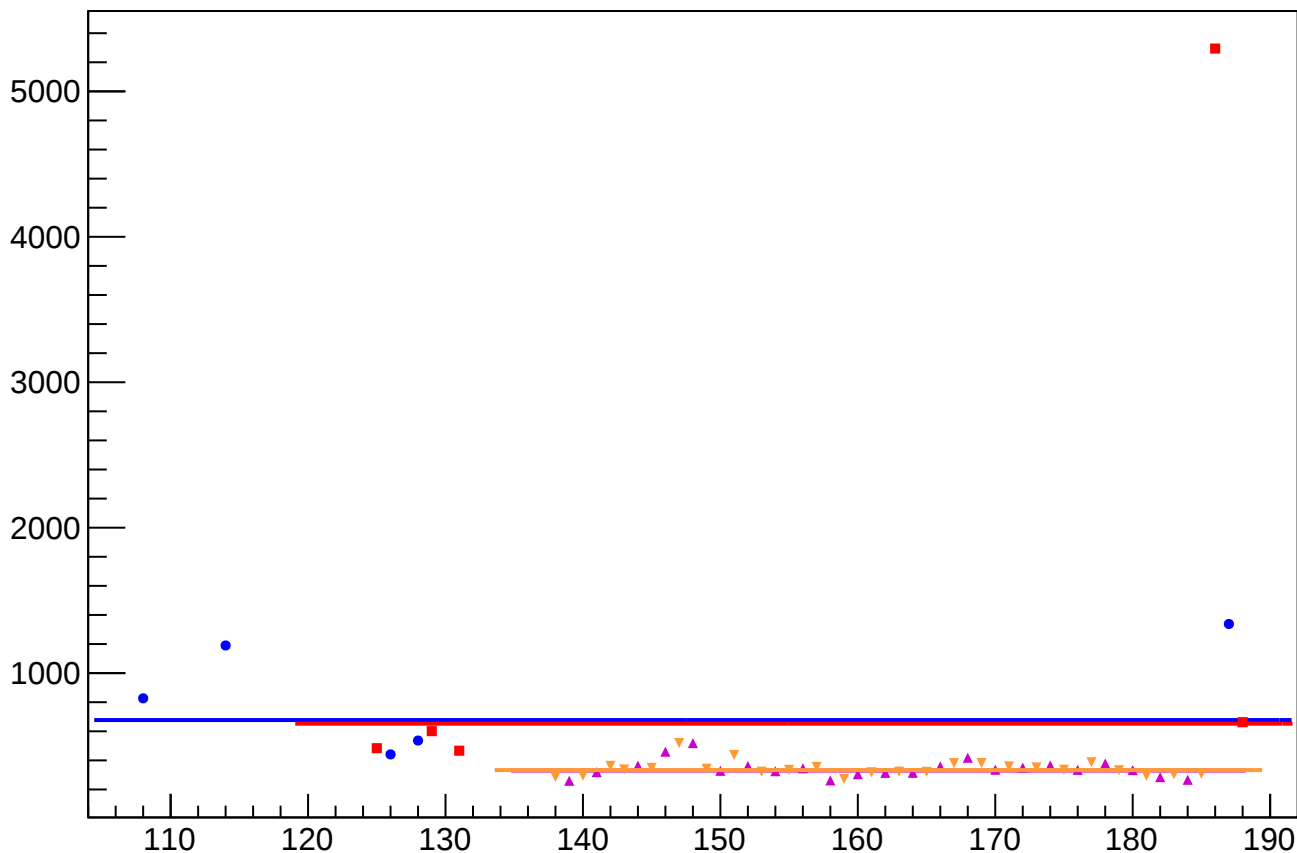
Right: 636.714+/-556.701 χ^2/NDF : 6.4/9

In: -60.574+/-79.881 χ^2/NDF : 40.5/27

Out: -1.450+/-77.777 χ^2/NDF : 27.2/29

All: -30.223+/-55.726 χ^2/NDF : 68.0/57

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 677.327+/-0.878 χ^2/NDF : 128842.0/4

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 652.392+/-0.440 χ^2/NDF : 592412.7/4

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

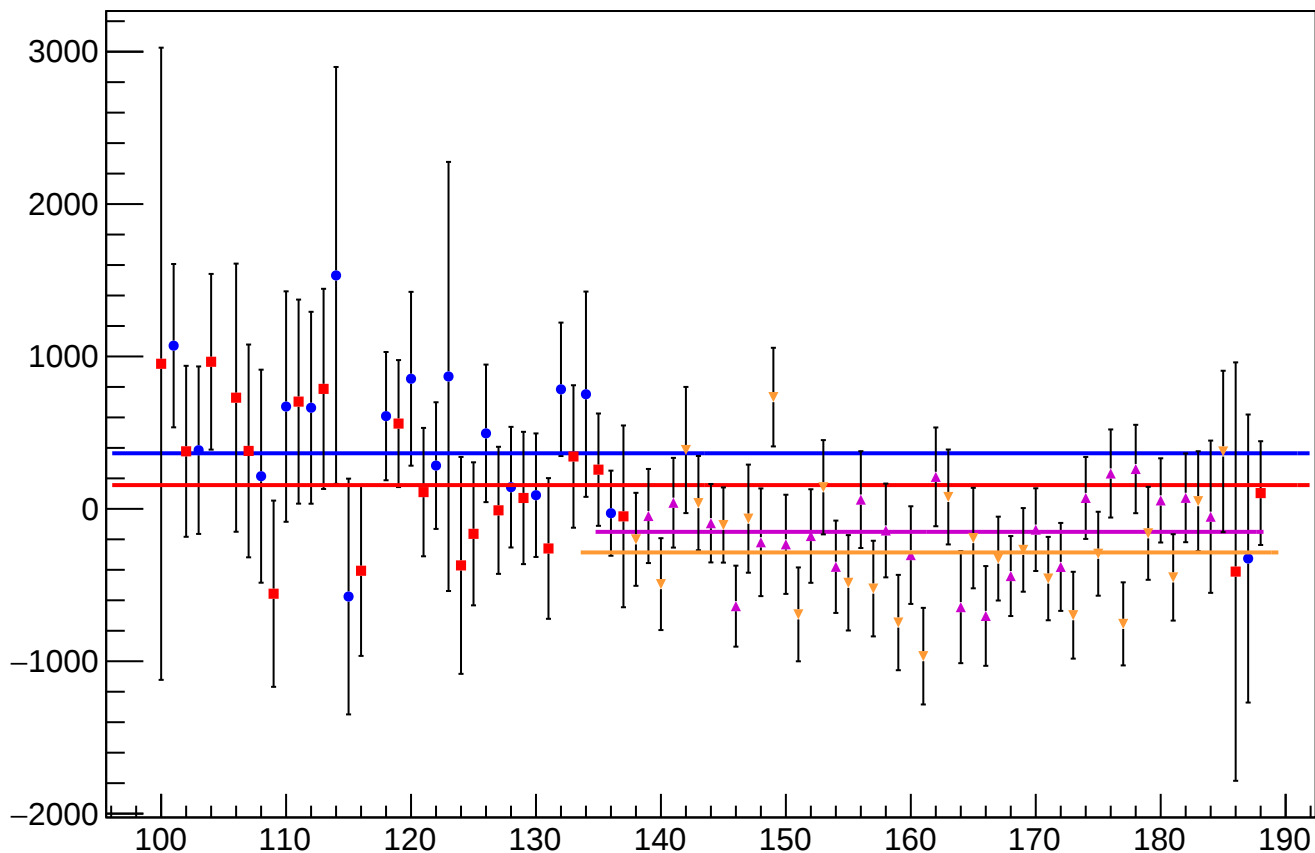
Right: 657.406+/-0.394 χ^2/NDF : 721899.3/9

In: 331.423+/-0.056 χ^2/NDF : 1080712.9/27

Out: 338.210+/-0.055 χ^2/NDF : 1701523.7/29

All: 334.907+/-0.039 χ^2/NDF : 2789647.8/57

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 364.700 $\pm$ 120.305 χ^2 /NDF: 10.2/17

Left Out: -286.030 $\pm$ 61.095 χ^2 /NDF:36.6/24

Right Out: 155.882 $\pm$ 113.398 χ^2 /NDF: 10.3/20

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

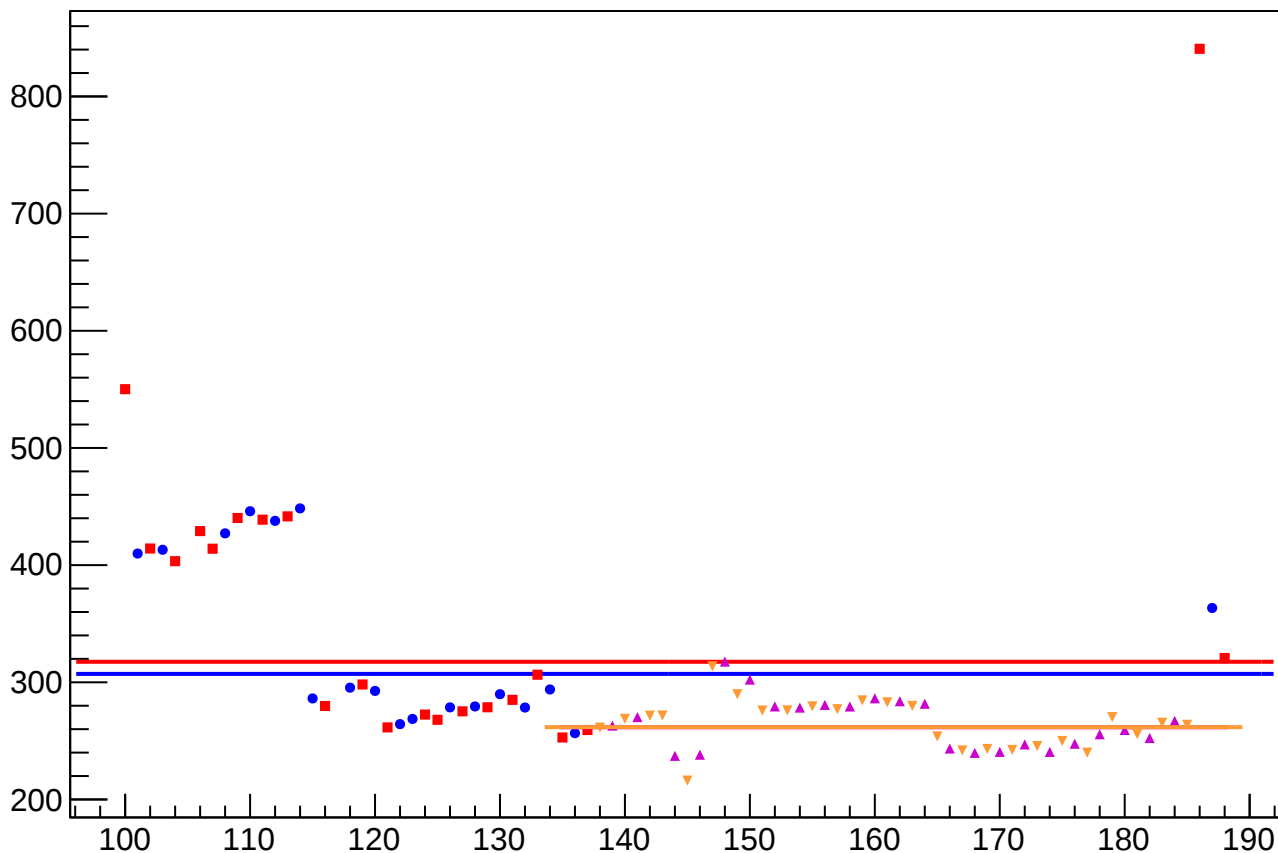
Right: 254.124 $\pm$ 82.518 χ^2 /NDF: 22.1/38

In: -40.456 $\pm$ 55.684 χ^2 /NDF:43.4/40

Out: -186.615 $\pm$ 53.785 χ^2 /NDF:58.6/45

All: -116.070 $\pm$ 38.686 χ^2 /NDF: 105.6/86

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 307.168+/-0.085 χ^2/NDF : 512297.0/17

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 317.517+/-0.080 χ^2/NDF : 914859.8/20

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

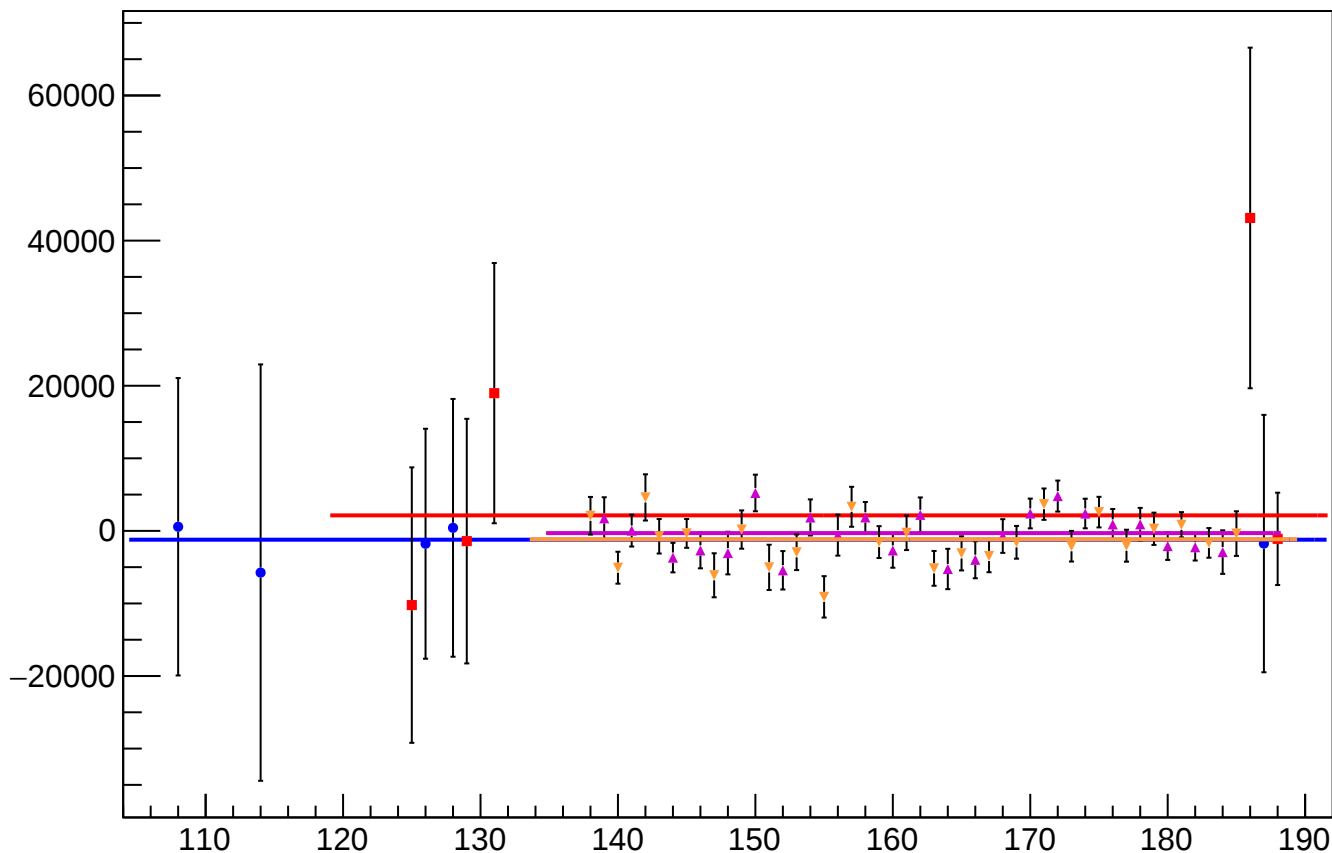
Right: 312.648+/-0.058 χ^2/NDF : 1434994.2/38

In: 271.391+/-0.039 χ^2/NDF : 965637.1/40

Out: 274.274+/-0.038 χ^2/NDF : 1523347.9/45

All: 272.882+/-0.027 χ^2/NDF : 2491758.0/86

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -1215.089 ± 8473.188 $\chi^2/\text{NDF}: 0.0/4$

Left Out: -1161.443 ± 469.036 $\chi^2/\text{NDF}: 38.8/24$

Right Out: 2137.393 ± 5275.469 $\chi^2/\text{NDF}: 4.7/4$

Left In: -304.366 ± 483.778 $\chi^2/\text{NDF}: 35.4/22$

Left: -746.162 ± 336.750 $\chi^2/\text{NDF}: 75.7/47$

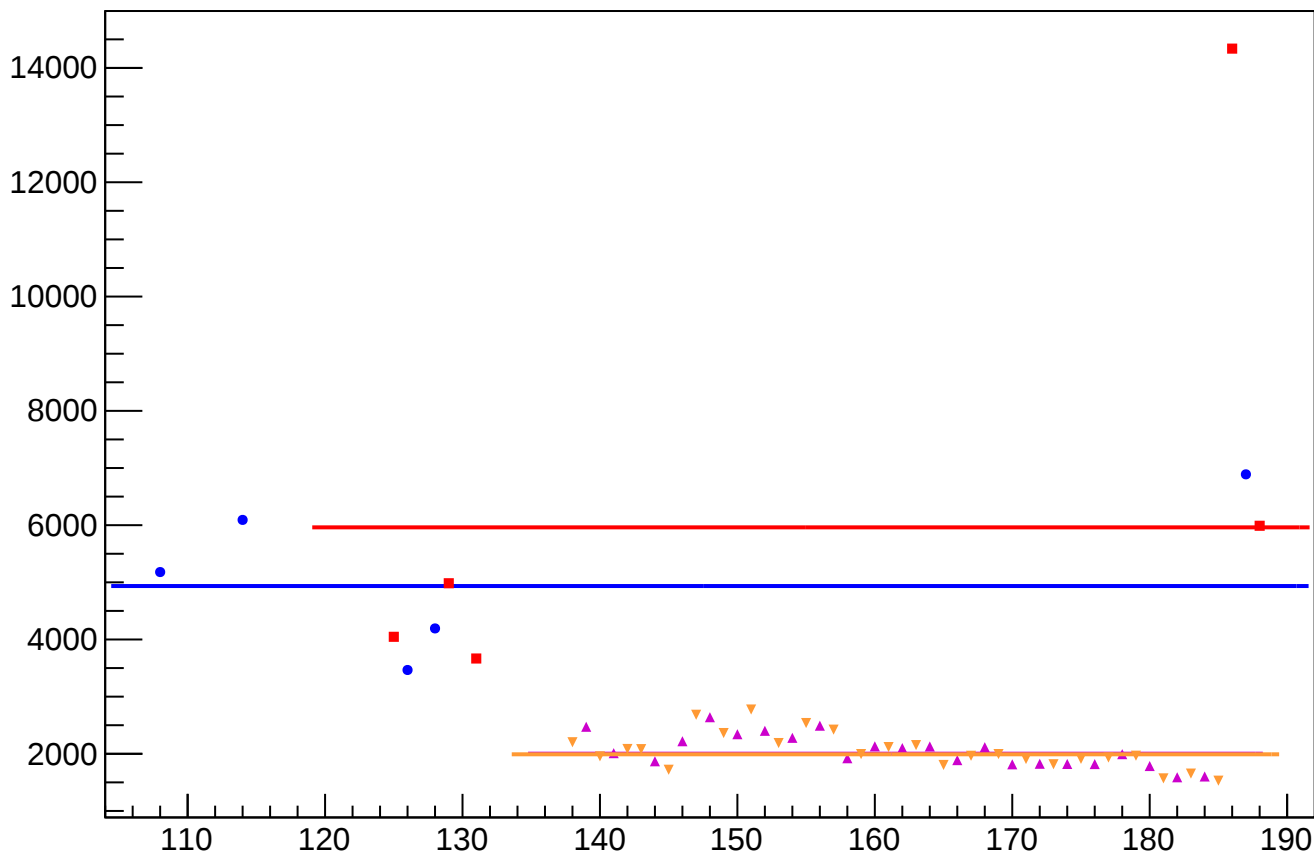
Right: 1200.871 ± 4478.398 $\chi^2/\text{NDF}: 4.8/9$

In: -307.325 ± 482.992 $\chi^2/\text{NDF}: 35.4/27$

Out: -1135.570 ± 467.193 $\chi^2/\text{NDF}: 43.8/29$

All: -735.215 ± 335.802 $\chi^2/\text{NDF}: 80.7/57$

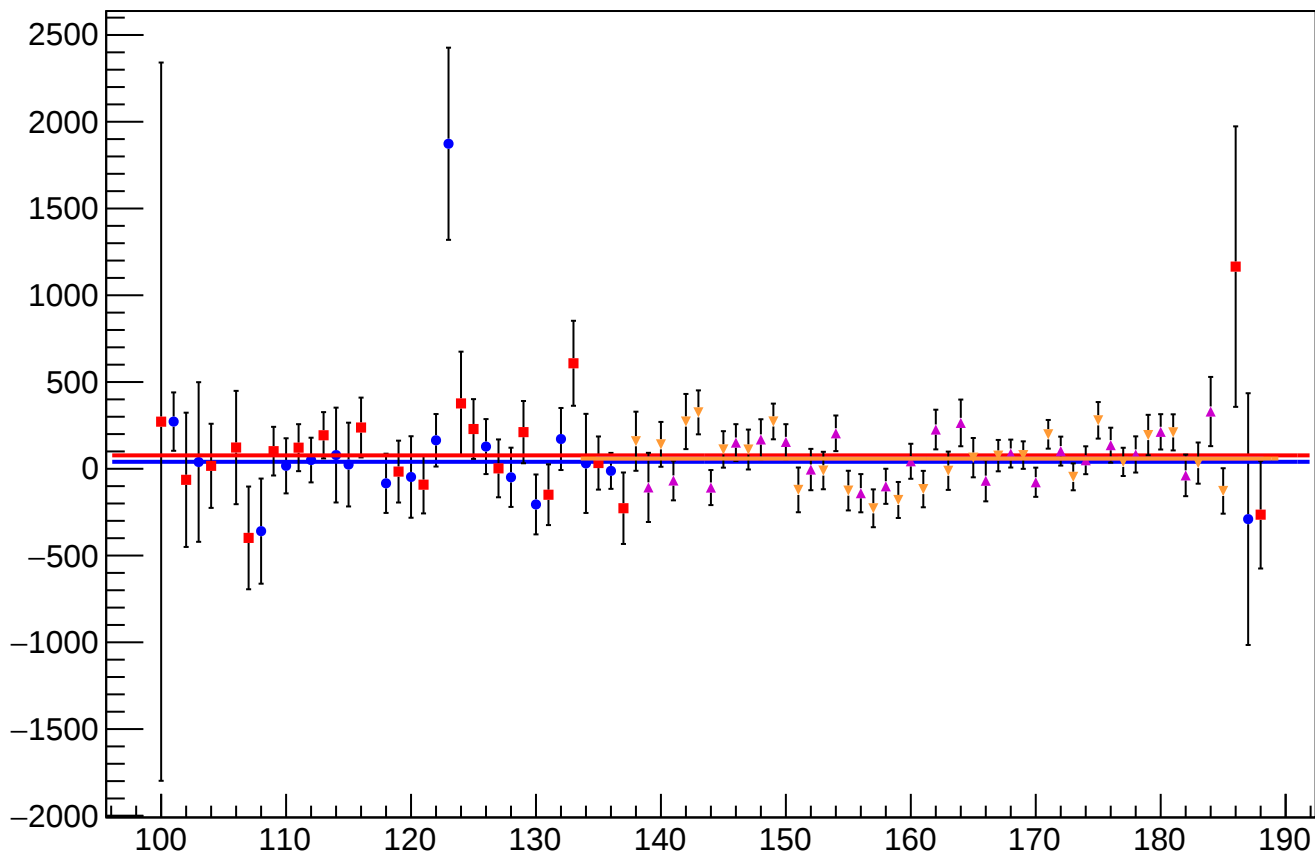
asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4935.257+/-5.991 χ^2 /NDF: 48497.2/4
 Left Out: 1991.105+/-0.332 χ^2 /NDF: 726310.6/24
 Right Out: 5961.901+/-3.730 χ^2 /NDF: 314663.3/4
 Left In: 2002.154+/-0.342 χ^2 /NDF: 585947.4/22

Left: 1996.458+/-0.238 χ^2 /NDF: 1312795.7/47
 Right: 5675.106+/-3.167 χ^2 /NDF: 384319.8/9
 In: 2011.684+/-0.342 χ^2 /NDF: 873323.4/27
 Out: 2022.247+/-0.330 χ^2 /NDF: 2165173.7/29
 All: 2017.141+/-0.237 χ^2 /NDF: 3038991.3/57

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 40.249 $\pm$ 43.554 χ^2 /NDF: 19.6/17

Left Out: 58.983 $\pm$ 21.137 χ^2 /NDF:46.9/24

Right Out: 77.293 $\pm$ 42.740 χ^2 /NDF: 20.1/20

Left In: 59.235 $\pm$ 21.921 χ^2 /NDF:29.4/22

Left: 59.104 $\pm$ 15.216 χ^2 /NDF: 76.3/47

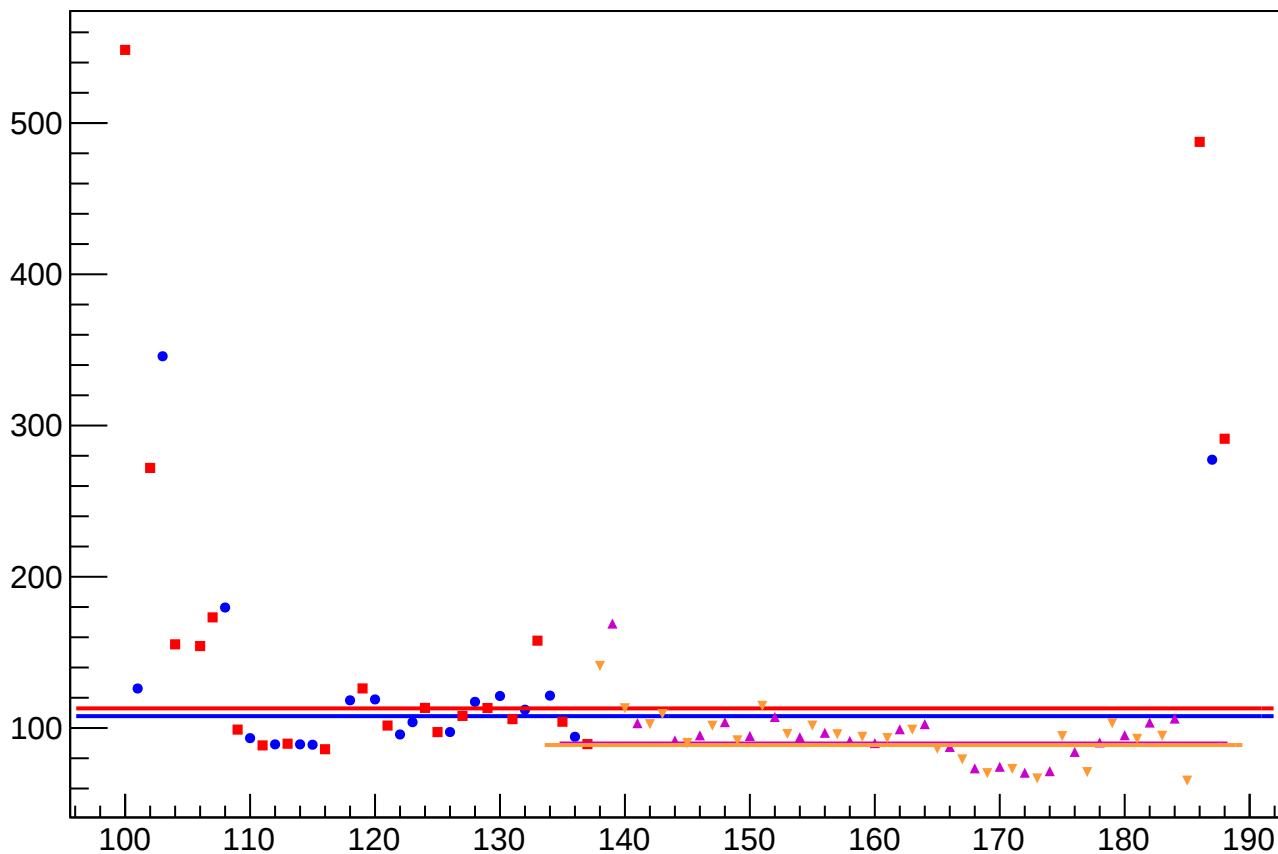
Right: 59.120 $\pm$ 30.505 χ^2 /NDF: 40.1/38

In: 55.397 $\pm$ 19.581 χ^2 /NDF:49.1/40

Out: 62.581 $\pm$ 18.947 χ^2 /NDF:67.2/45

All: 59.107 $\pm$ 13.616 χ^2 /NDF: 116.4/86

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 107.845 $\pm$ 0.031 χ^2 /NDF: 953152.9/17

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 112.973 $\pm$ 0.030 χ^2 /NDF: 2029053.7/20

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

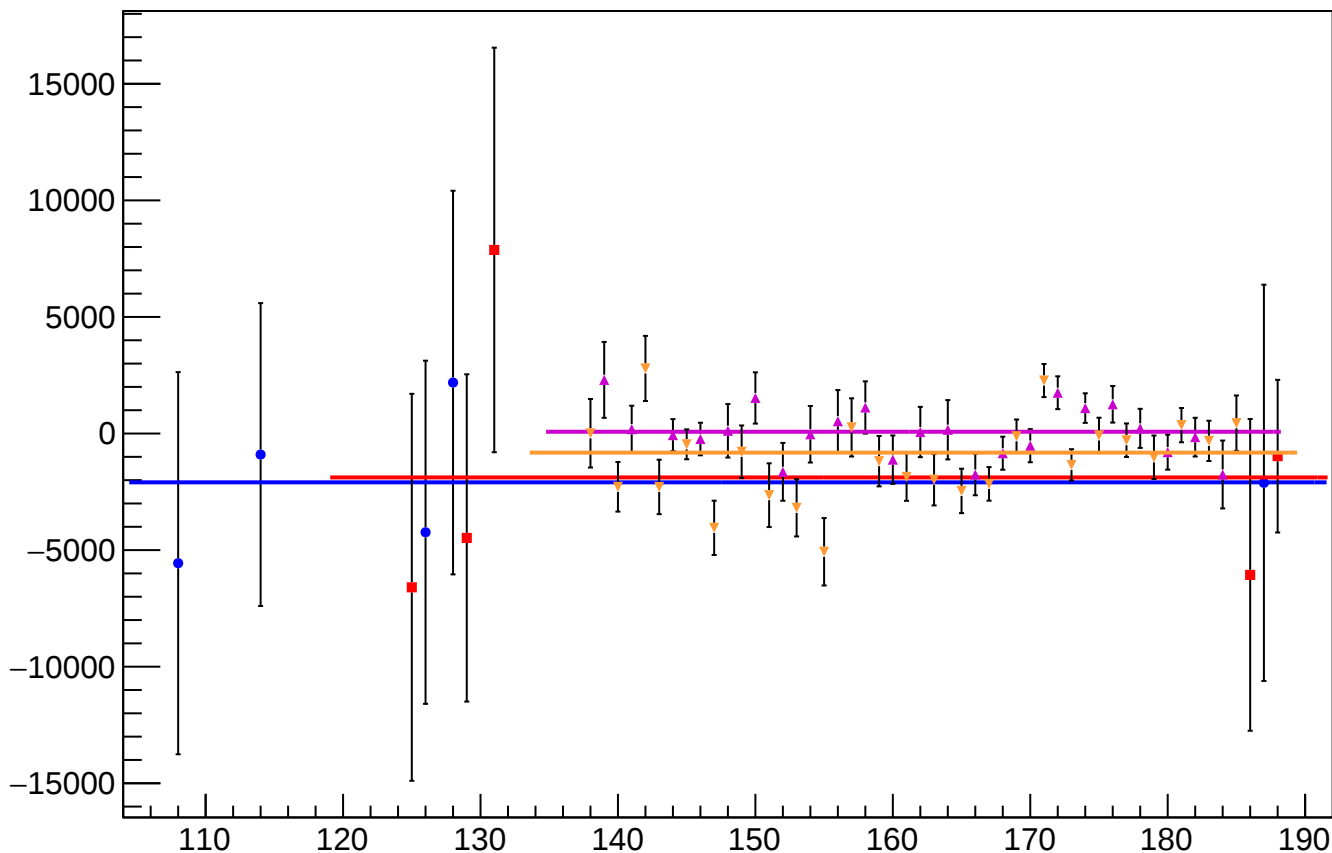
Right: 110.457 $\pm$ 0.022 χ^2 /NDF: 2996335.6/38

In: 93.420 $\pm$ 0.014 χ^2 /NDF:2113922.8/40

Out: 93.509 $\pm$ 0.013 χ^2 /NDF:3624668.1/45

All: 93.466 $\pm$ 0.010 χ^2 /NDF: 5738612.3/86

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2093.366 ± 3416.354 $\chi^2/\text{NDF}: 0.6/4$

Left Out: -818.877 ± 184.464 $\chi^2/\text{NDF}: 68.2/24$

Right Out: -1882.597 ± 2470.583 $\chi^2/\text{NDF}: 2.2/4$

Left In: 76.204 ± 186.651 $\chi^2/\text{NDF}: 28.3/22$

Left: -376.610 ± 131.202 $\chi^2/\text{NDF}: 108.1/47$

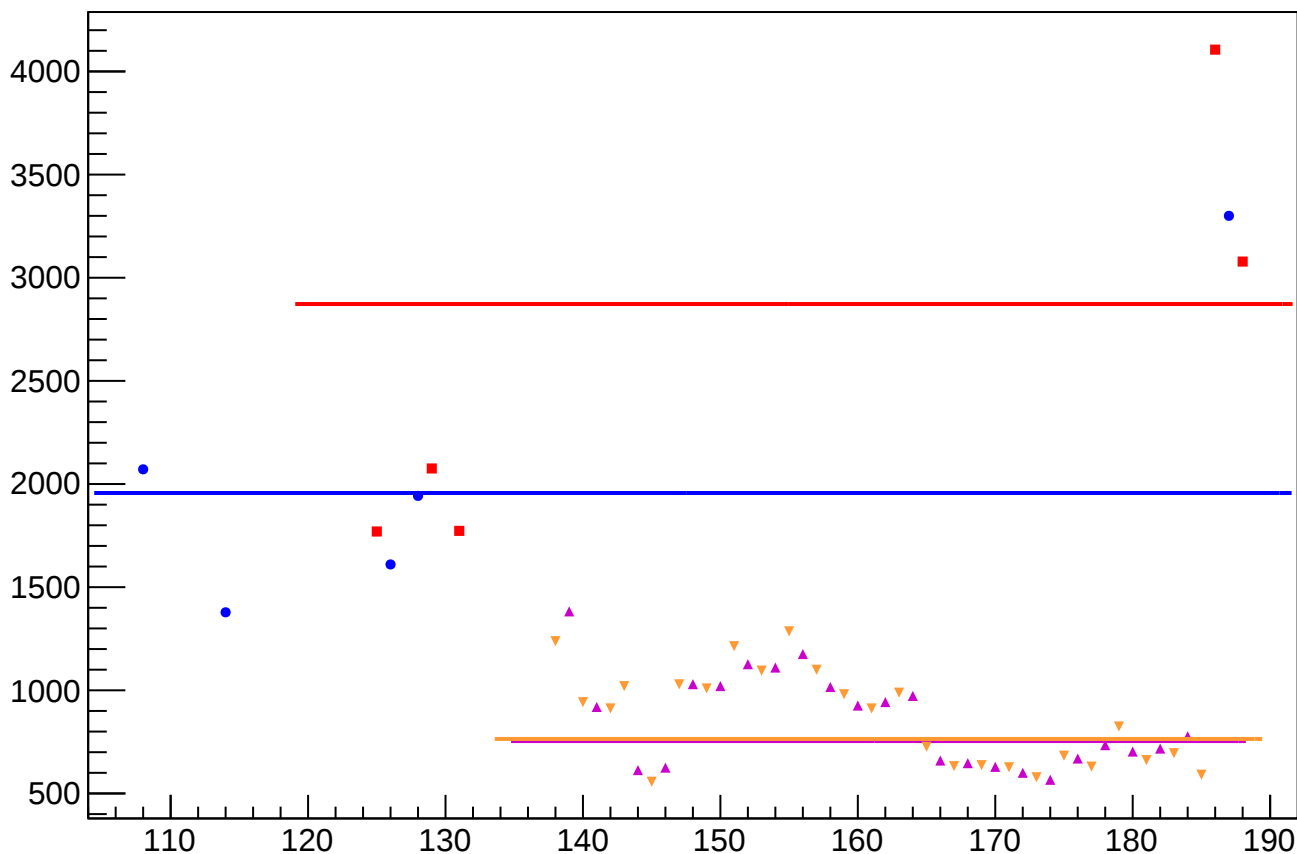
Right: -1954.972 ± 2001.956 $\chi^2/\text{NDF}: 2.8/9$

In: 69.747 ± 186.373 $\chi^2/\text{NDF}: 29.2/27$

Out: -824.774 ± 183.952 $\chi^2/\text{NDF}: 70.6/29$

All: -383.361 ± 130.921 $\chi^2/\text{NDF}: 111.5/57$

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 1956.504+/-2.416 χ^2/NDF : 70686.2/4

Left Out: 764.280+/-0.130 χ^2/NDF : 2315985.8/24

Right Out: 2872.582+/-1.747 χ^2/NDF : 169190.1/4

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

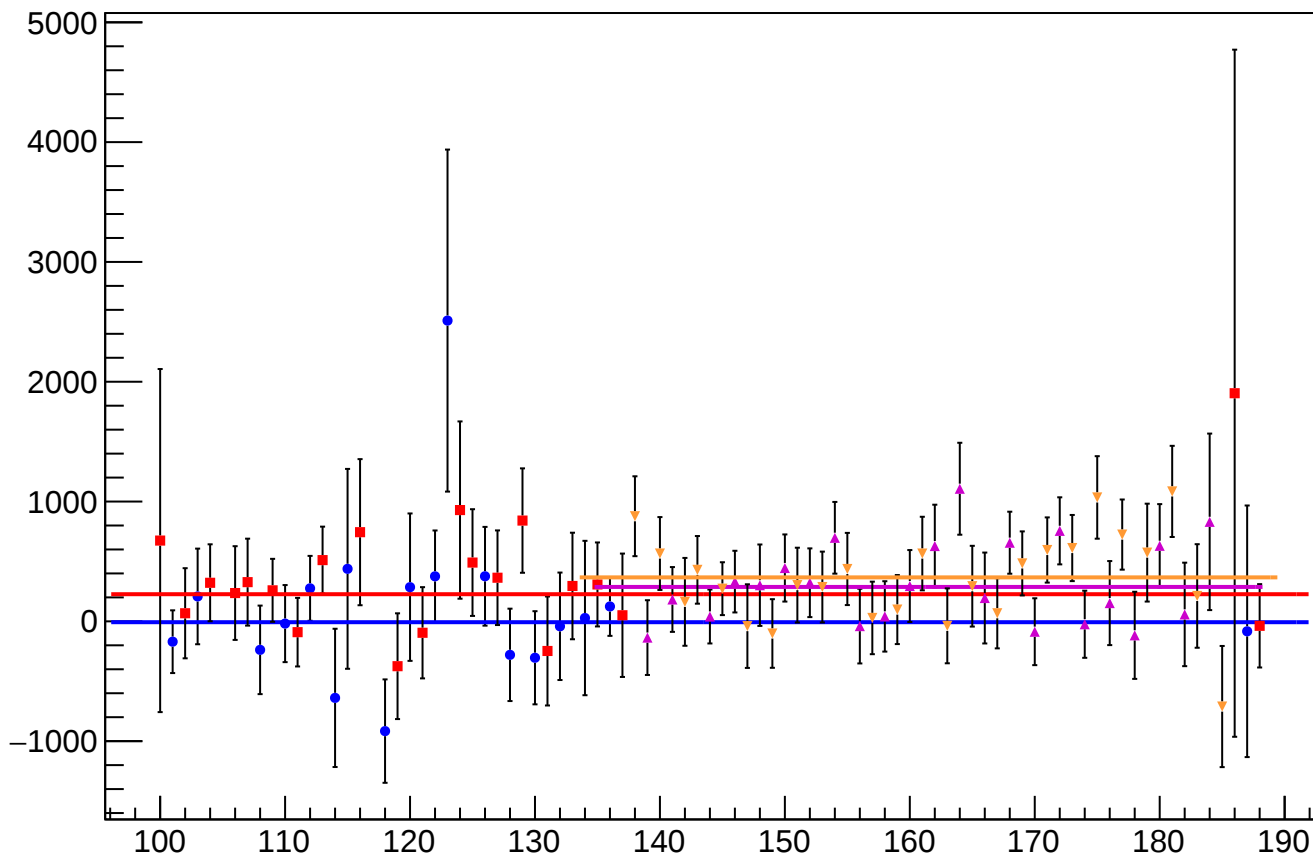
Right: 2558.013+/-1.416 χ^2/NDF : 334299.5/9

In: 757.605+/-0.132 χ^2/NDF : 2331110.9/27

Out: 775.968+/-0.130 χ^2/NDF : 3933555.3/29

All: 766.906+/-0.093 χ^2/NDF : 6274500.2/57

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -7.098 ± 93.094 $\chi^2/\text{NDF}: 14.7/17$

Left Out: 367.028 ± 61.943 $\chi^2/\text{NDF}: 28.2/24$

Right Out: 226.552 ± 86.281 $\chi^2/\text{NDF}: 11.6/20$

Left In: 287.246 ± 64.141 $\chi^2/\text{NDF}: 23.9/22$

Left: 328.527 ± 44.557 $\chi^2/\text{NDF}: 52.9/47$

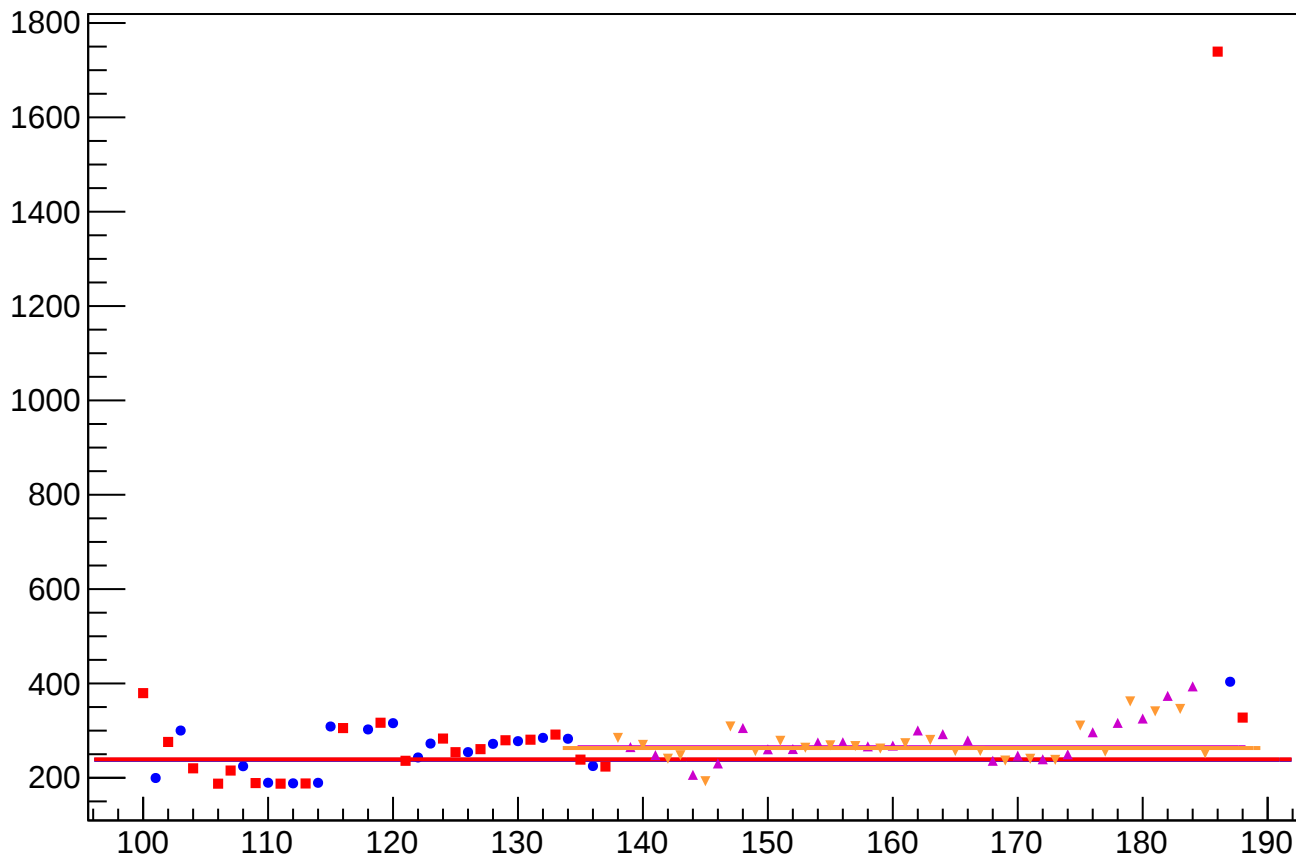
Right: 118.588 ± 63.281 $\chi^2/\text{NDF}: 29.6/38$

In: 192.497 ± 52.818 $\chi^2/\text{NDF}: 45.3/40$

Out: 319.249 ± 50.319 $\chi^2/\text{NDF}: 41.6/45$

All: 258.943 ± 36.432 $\chi^2/\text{NDF}: 89.9/86$

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 238.061 $\pm$ 0.066 χ^2 /NDF: 440131.1/17

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 239.113 $\pm$ 0.061 χ^2 /NDF: 1135368.3/20

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

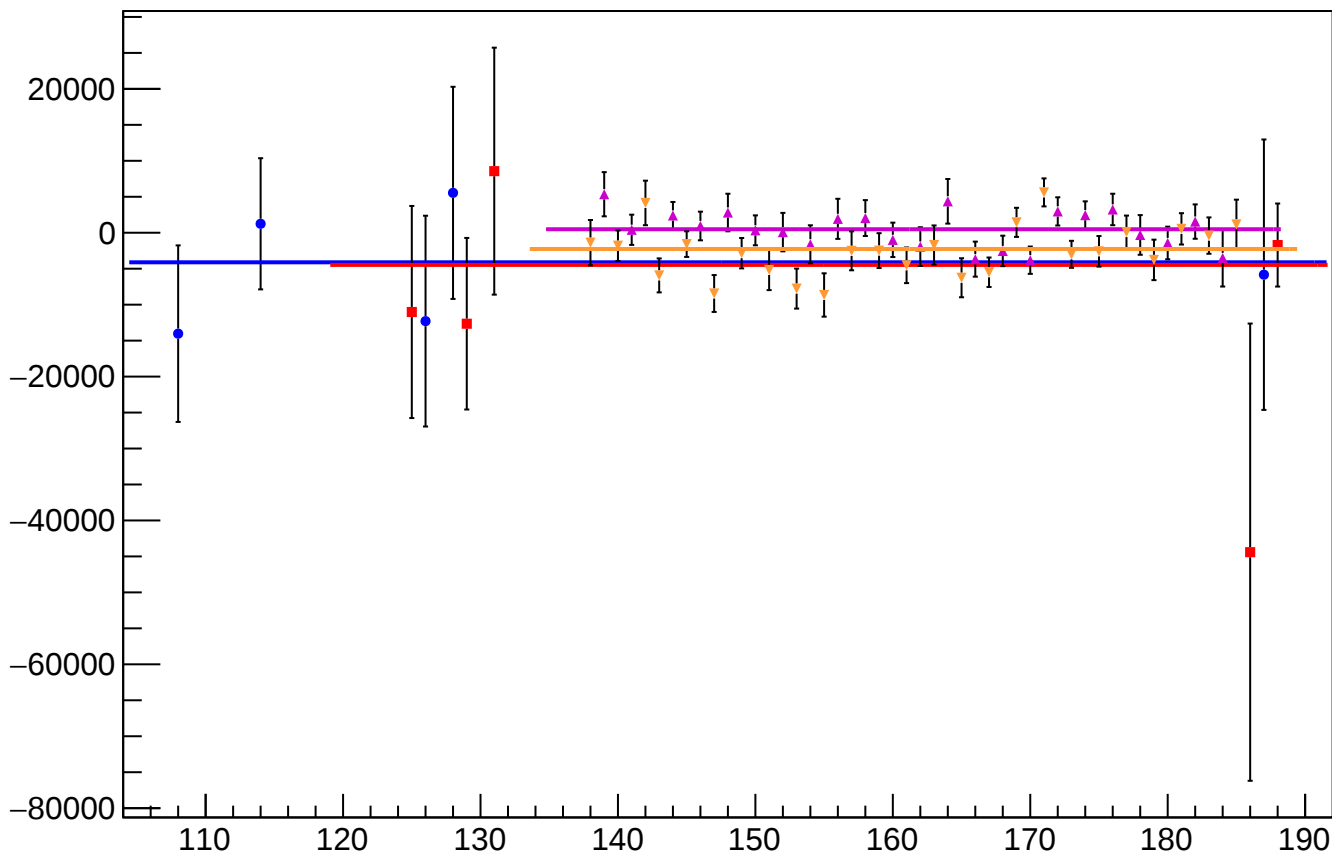
Right: 238.627 $\pm$ 0.045 χ^2 /NDF: 1575636.7/38

In: 256.276 $\pm$ 0.037 χ^2 /NDF: 1162072.2/40

Out: 254.943 $\pm$ 0.036 χ^2 /NDF: 1879627.8/45

All: 255.577 $\pm$ 0.026 χ^2 /NDF: 3042367.7/86

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -4111.567+/-5702.410 χ^2/NDF : 1.7/4

Left Out: -2260.196+/-475.336 χ^2/NDF : 52.3/24

Right Out: -4472.510+/-4661.252 χ^2/NDF : 3.1/4

Left In: 485.590+/-487.465 χ^2/NDF : 24.8/22

Left: -921.890+/-340.321 χ^2/NDF : 93.4/47

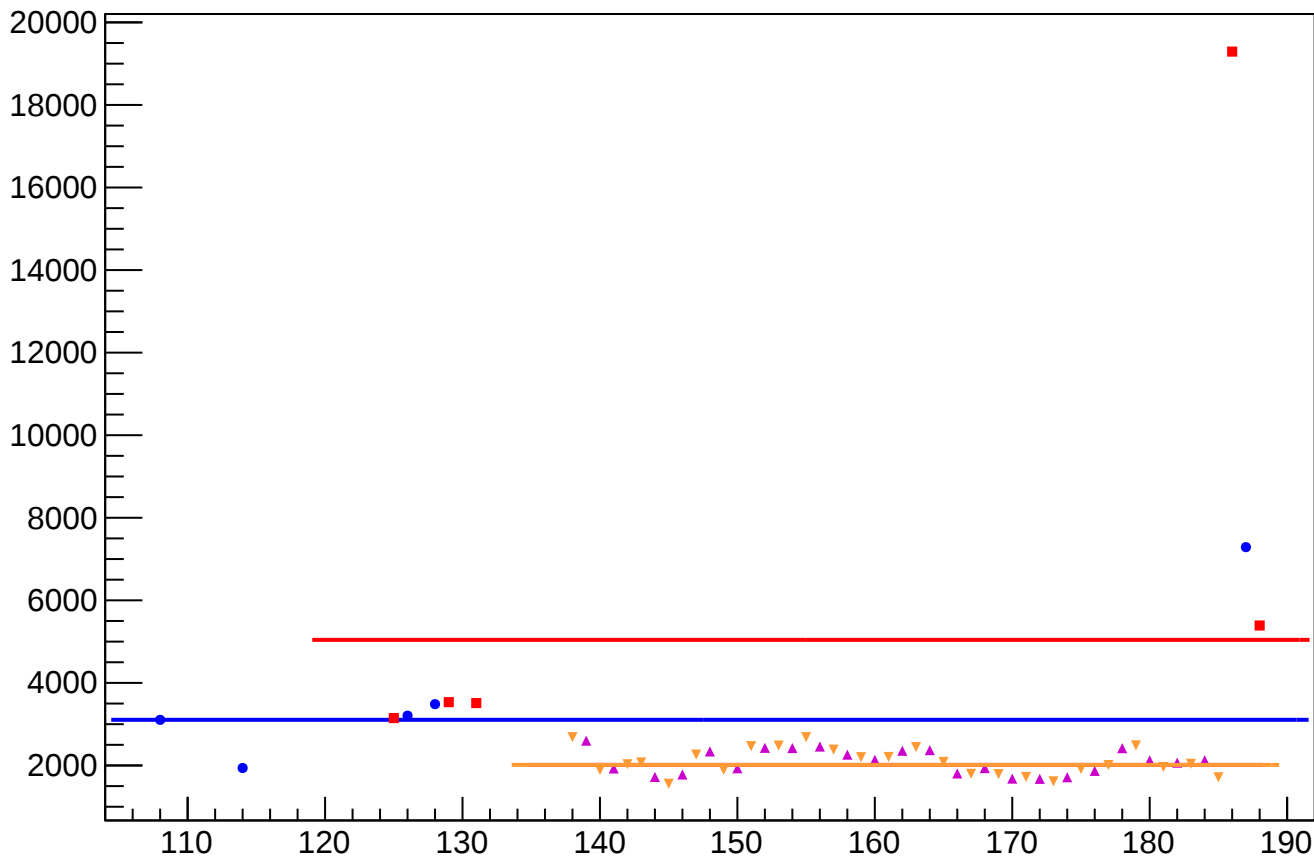
Right: -4327.938+/-3608.961 χ^2/NDF : 4.8/9

In: 452.240+/-485.694 χ^2/NDF : 27.2/27

Out: -2282.966+/-472.883 χ^2/NDF : 55.6/29

All: -951.911+/-338.817 χ^2/NDF : 99.0/57

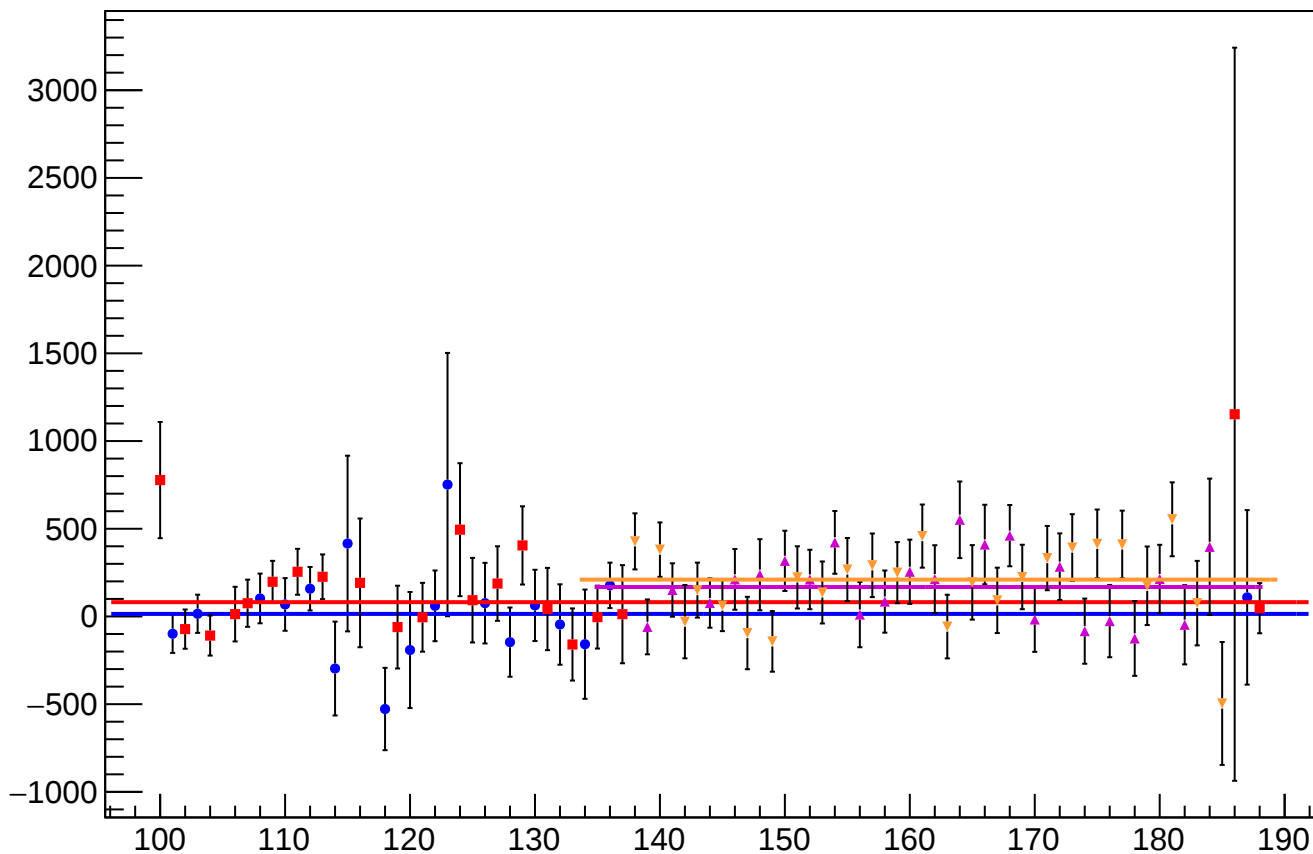
asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 3106.025+/-4.032 χ^2/NDF : 133208.8/4
 Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24
 Right Out: 5043.137+/-3.296 χ^2/NDF : 490223.7/4
 Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47
 Right: 4267.243+/-2.552 χ^2/NDF : 761783.2/9
 In: 2021.173+/-0.343 χ^2/NDF : 868201.5/27
 Out: 2045.281+/-0.334 χ^2/NDF : 2161751.7/29
 All: 2033.549+/-0.240 χ^2/NDF : 3032482.8/57

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 14.537 $\pm$ 42.211 χ^2 /NDF: 14.5/17

Left Out: 210.086 $\pm$ 37.093 χ^2 /NDF:27.5/24

Right Out: 81.457 $\pm$ 37.653 χ^2 /NDF: 19.5/20

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

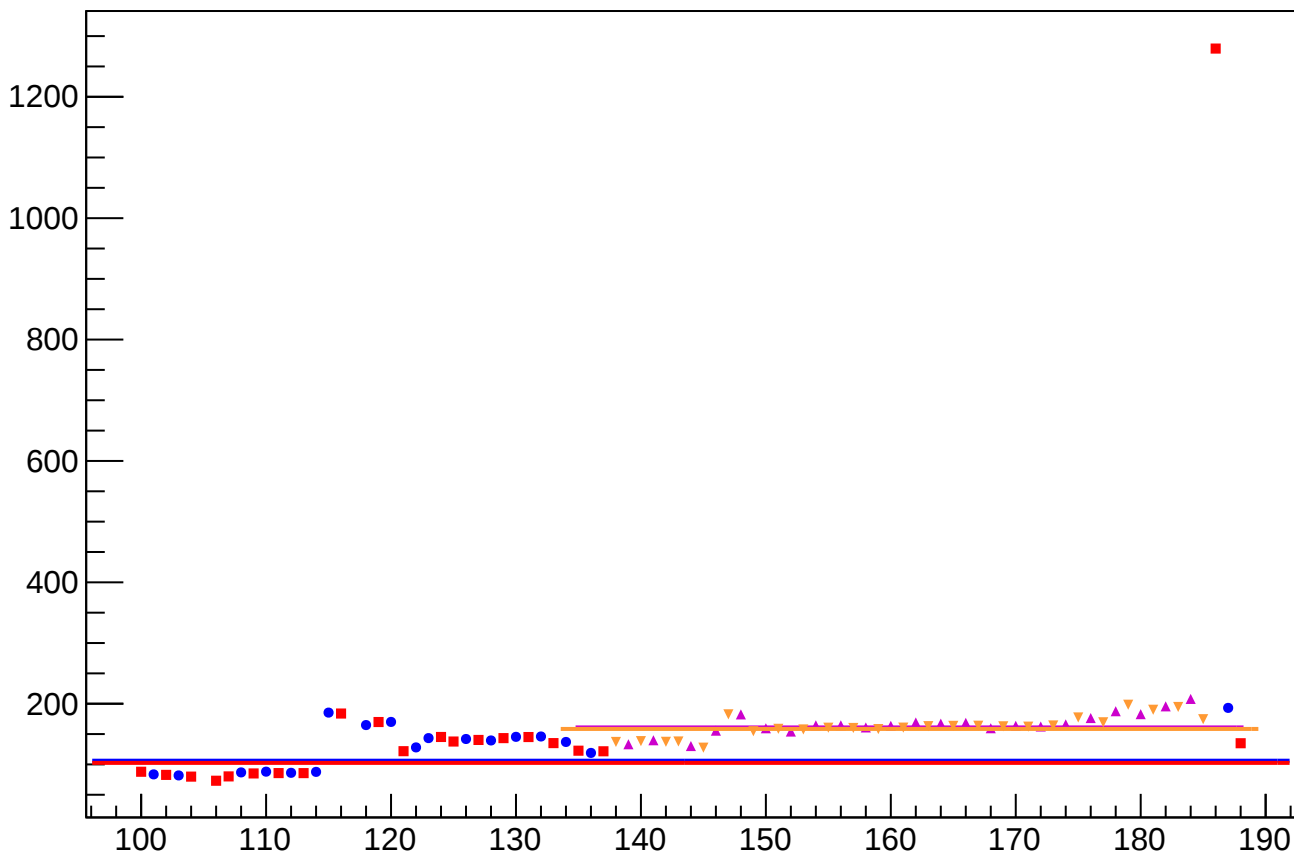
Right: 51.804 $\pm$ 28.099 χ^2 /NDF: 35.3/38

In: 97.784 $\pm$ 28.533 χ^2 /NDF:42.8/40

Out: 146.735 $\pm$ 26.425 χ^2 /NDF:52.9/45

All: 124.134 $\pm$ 19.387 χ^2 /NDF: 97.3/86

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 106.101 $\pm$ 0.030 χ^2 /NDF: 931925.2/17

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 102.517 $\pm$ 0.027 χ^2 /NDF: 1747972.3/20

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

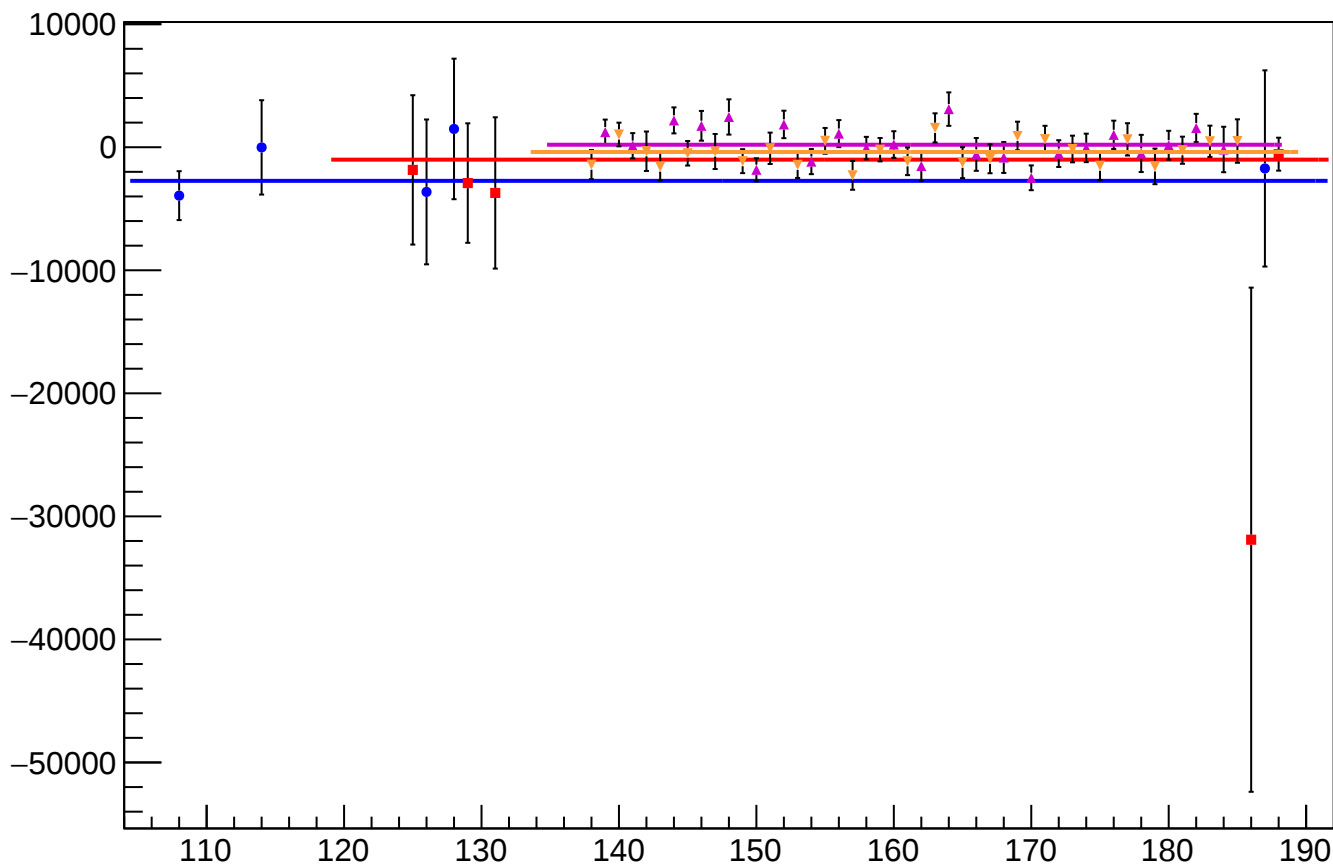
Right: 104.105 $\pm$ 0.020 χ^2 /NDF: 2687929.2/38

In: 135.887 $\pm$ 0.020 χ^2 /NDF: 3145366.2/40

Out: 130.897 $\pm$ 0.019 χ^2 /NDF: 4421229.9/45

All: 133.201 $\pm$ 0.014 χ^2 /NDF: 7599526.6/86

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -2732.874+/-1587.923 χ^2/NDF : 1.5/4

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: -1009.485+/-1234.156 χ^2/NDF : 2.8/4

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

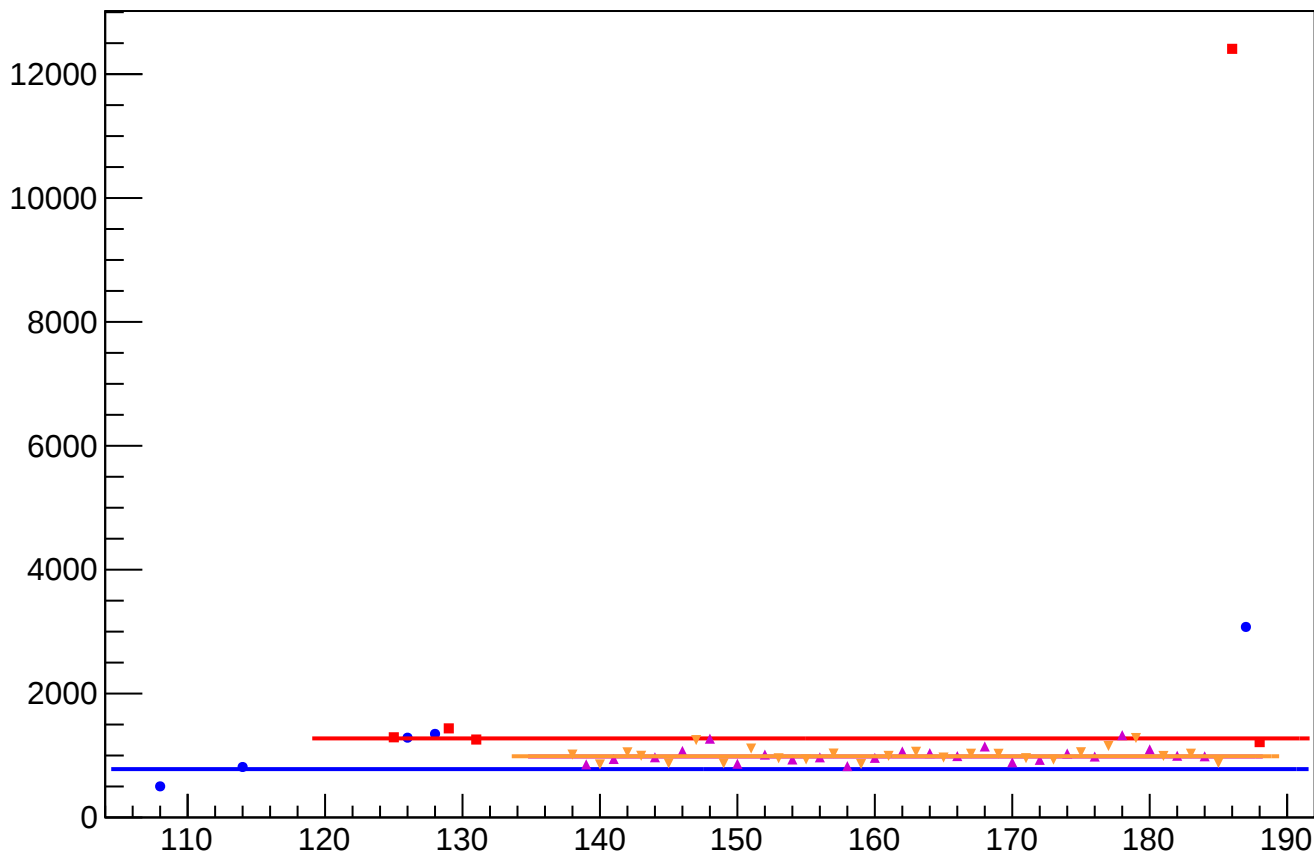
Right: -1658.483+/-974.450 χ^2/NDF : 4.9/9

In: 138.033+/-234.848 χ^2/NDF : 40.3/27

Out: -406.303+/-227.848 χ^2/NDF : 21.1/29

All: -142.368+/-163.532 χ^2/NDF : 64.1/57

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 780.441 $\pm$ 1.123 χ^2 /NDF: 239804.4/4

Left Out: 987.869 $\pm$ 0.164 χ^2 /NDF: 376958.5/24

Right Out: 1276.085 $\pm$ 0.873 χ^2 /NDF: 596788.3/4

Left In: 983.893 $\pm$ 0.168 χ^2 /NDF: 416265.7/22

Left: 985.929 $\pm$ 0.117 χ^2 /NDF: 793511.2/47

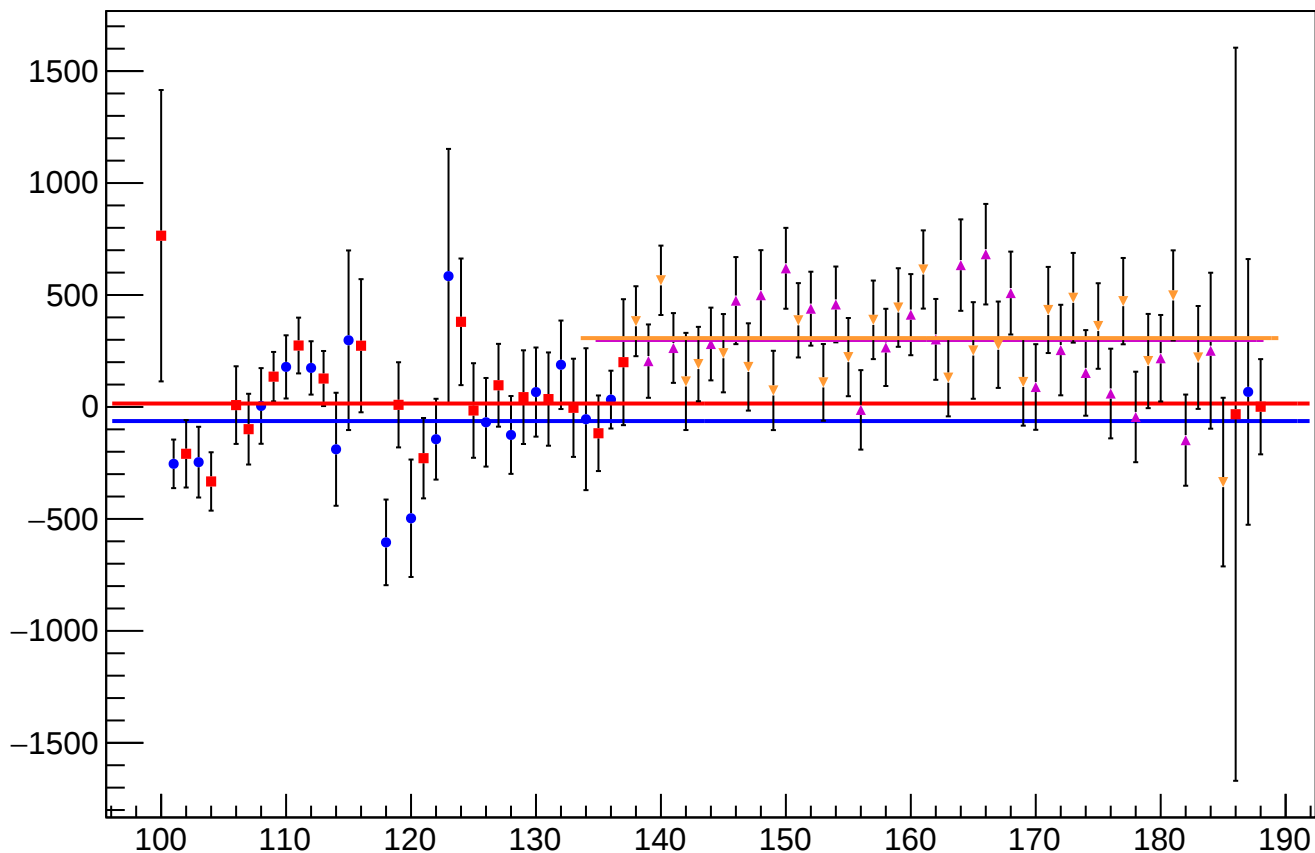
Right: 1089.434 $\pm$ 0.689 χ^2 /NDF: 958068.1/9

In: 979.443 $\pm$ 0.166 χ^2 /NDF: 688183.8/27

Out: 997.692 $\pm$ 0.161 χ^2 /NDF: 1079104.0/29

All: 988.844 $\pm$ 0.116 χ^2 /NDF: 1773508.9/57

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -62.964 ± 42.229 $\chi^2/\text{NDF}: 27.6/17$

Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$

Right Out: 15.336 ± 38.855 $\chi^2/\text{NDF}: 23.1/20$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

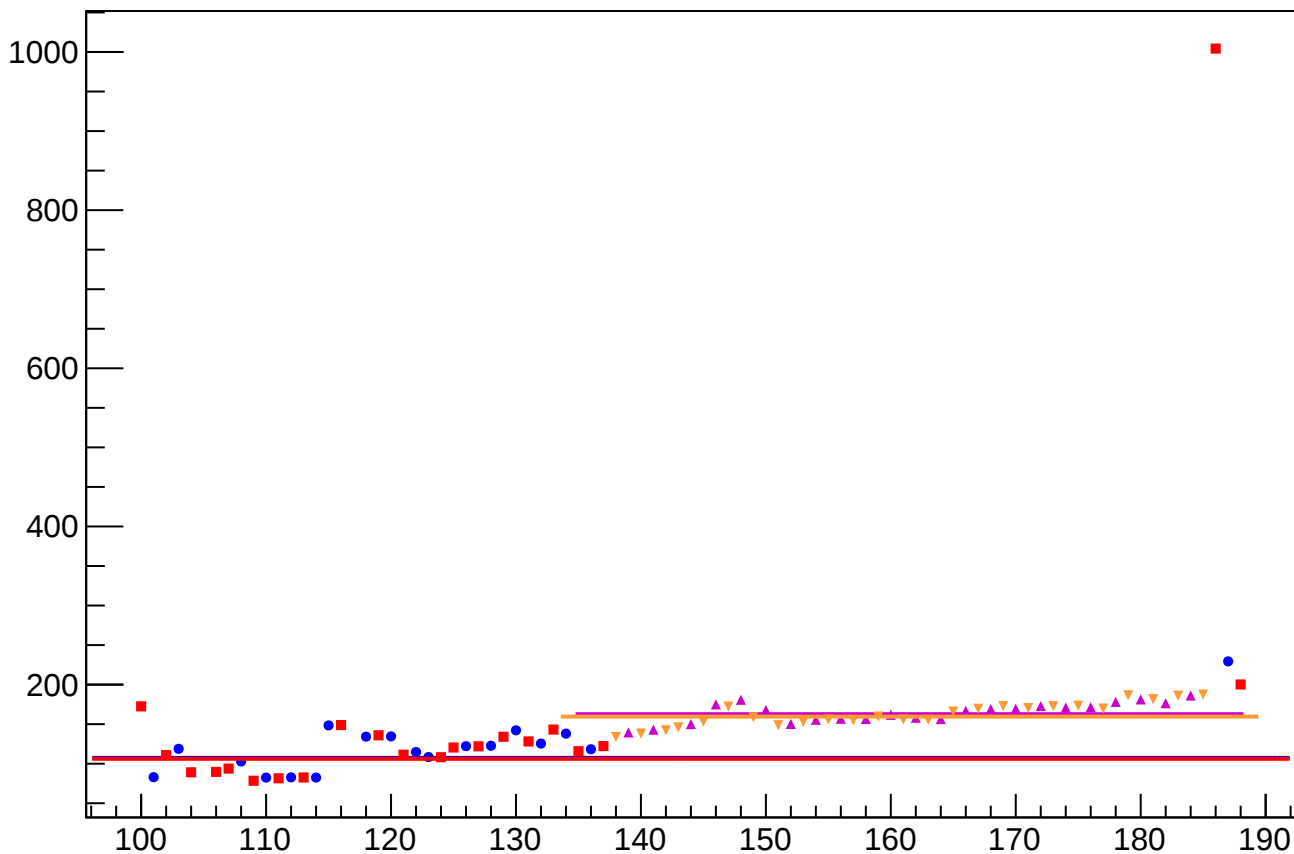
Right: -20.561 ± 28.593 $\chi^2/\text{NDF}: 52.6/38$

In: 132.445 ± 28.654 $\chi^2/\text{NDF}: 95.8/40$

Out: 167.462 ± 26.900 $\chi^2/\text{NDF}: 73.2/45$

All: 151.058 ± 19.612 $\chi^2/\text{NDF}: 169.9/86$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.355+/-0.030 χ^2/NDF : 588198.8/17

Left Out: 159.568+/-0.026 χ^2/NDF :287744.2/24

Right Out: 106.223 ± 0.027 χ^2/NDF : 1601544.7/20

Left In: 162.606+/-0.028 χ^2/NDF :199542.3/22

Left: 161.019 ± 0.019 $\chi^2/\text{NDF}: 493626.9/47$

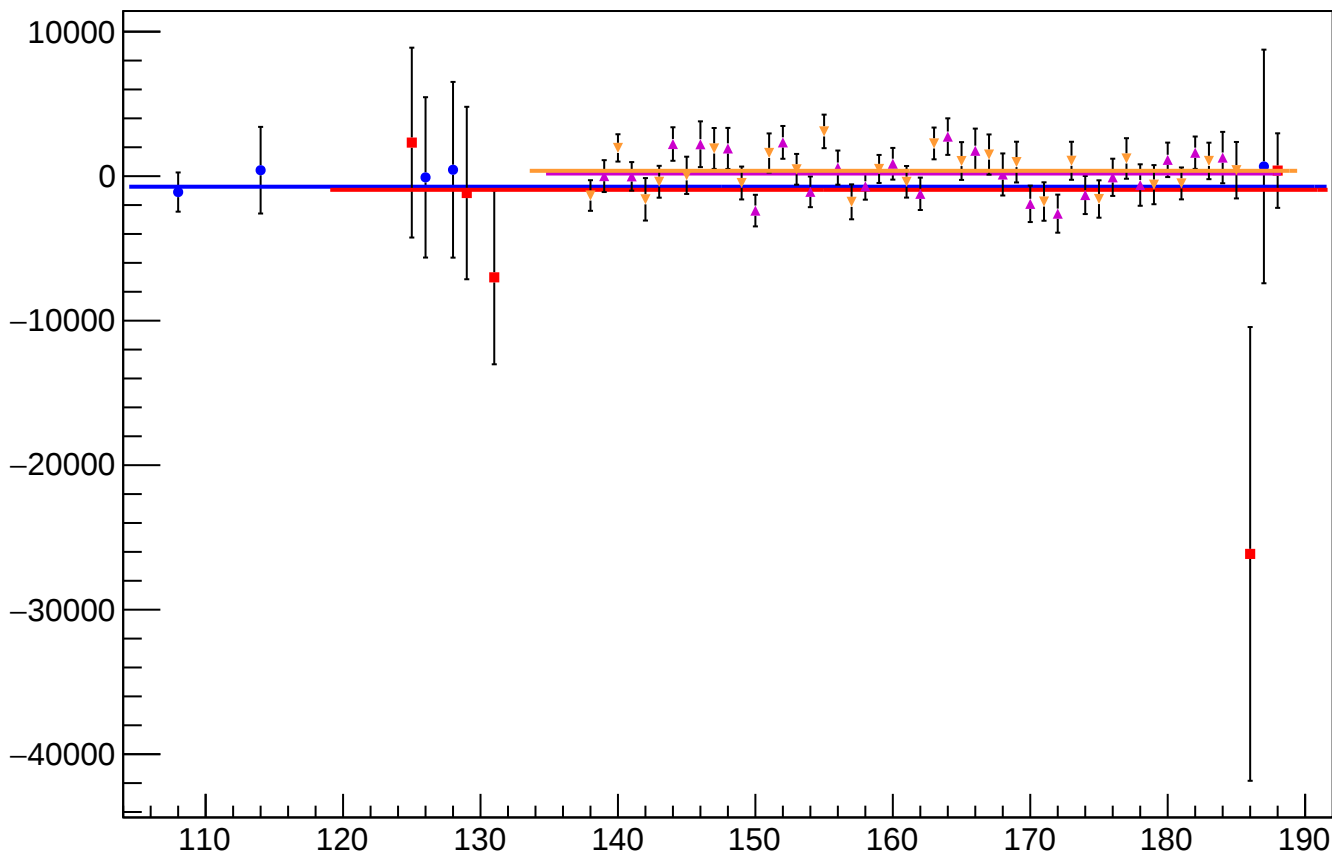
Right: 106.742+/-0.020 χ^2/NDF : 2190522.0/38

In: 137.167+/-0.020 χ^2/NDF :2635103.5/40

Out: 134.000+/-0.019 χ^2/NDF :3852350.6/45

All: 135.484+/-0.014 χ^2/NDF : 6500438.9/86

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: -730.057+/-1170.860 χ^2/NDF : 0.3/4

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -945.411+/-2070.876 χ^2/NDF : 4.1/4

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

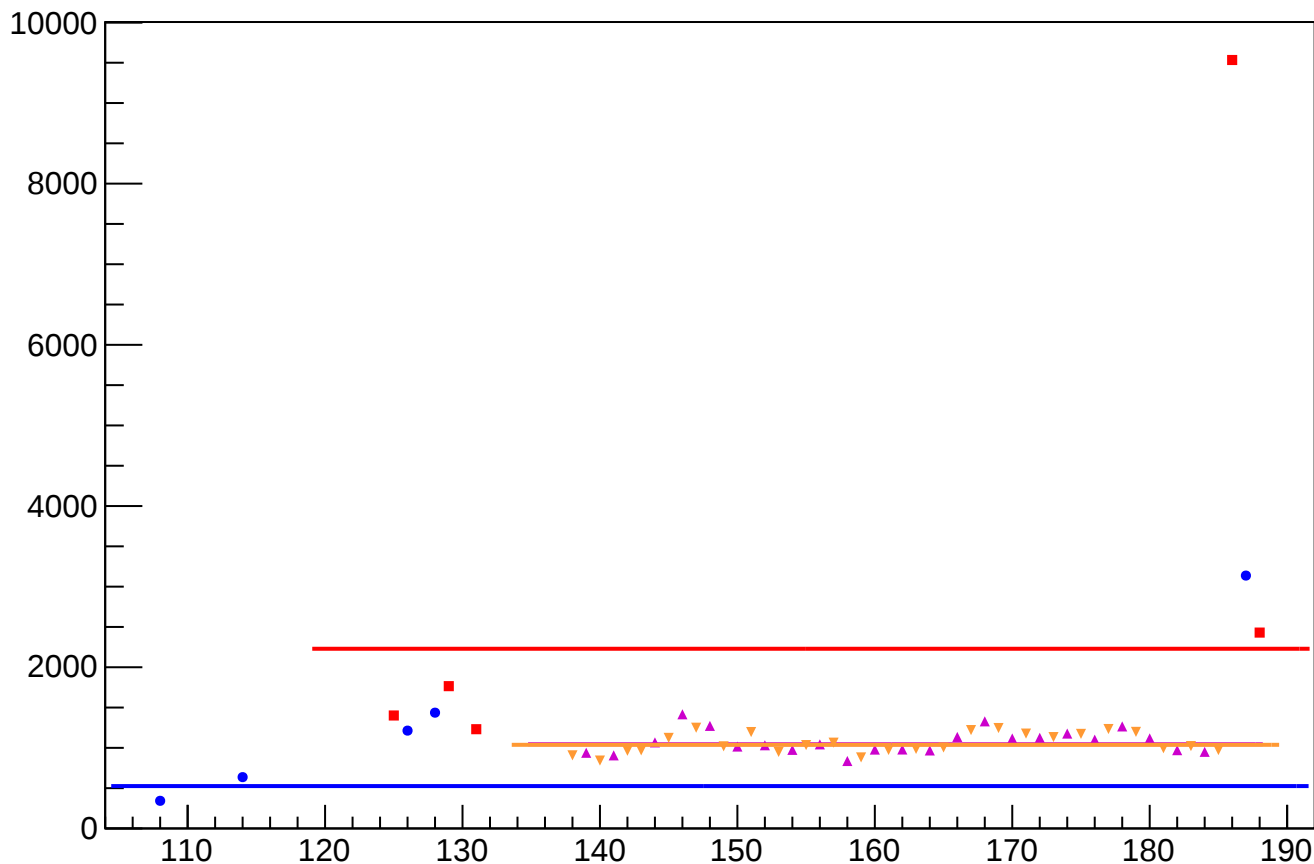
Right: -782.223+/-1019.230 χ^2/NDF : 4.4/9

In: 142.601+/-246.600 χ^2/NDF :37.4/27

Out: 352.059+/-241.854 χ^2/NDF :35.0/29

All: 249.365+/-172.670 χ^2/NDF : 72.7/57

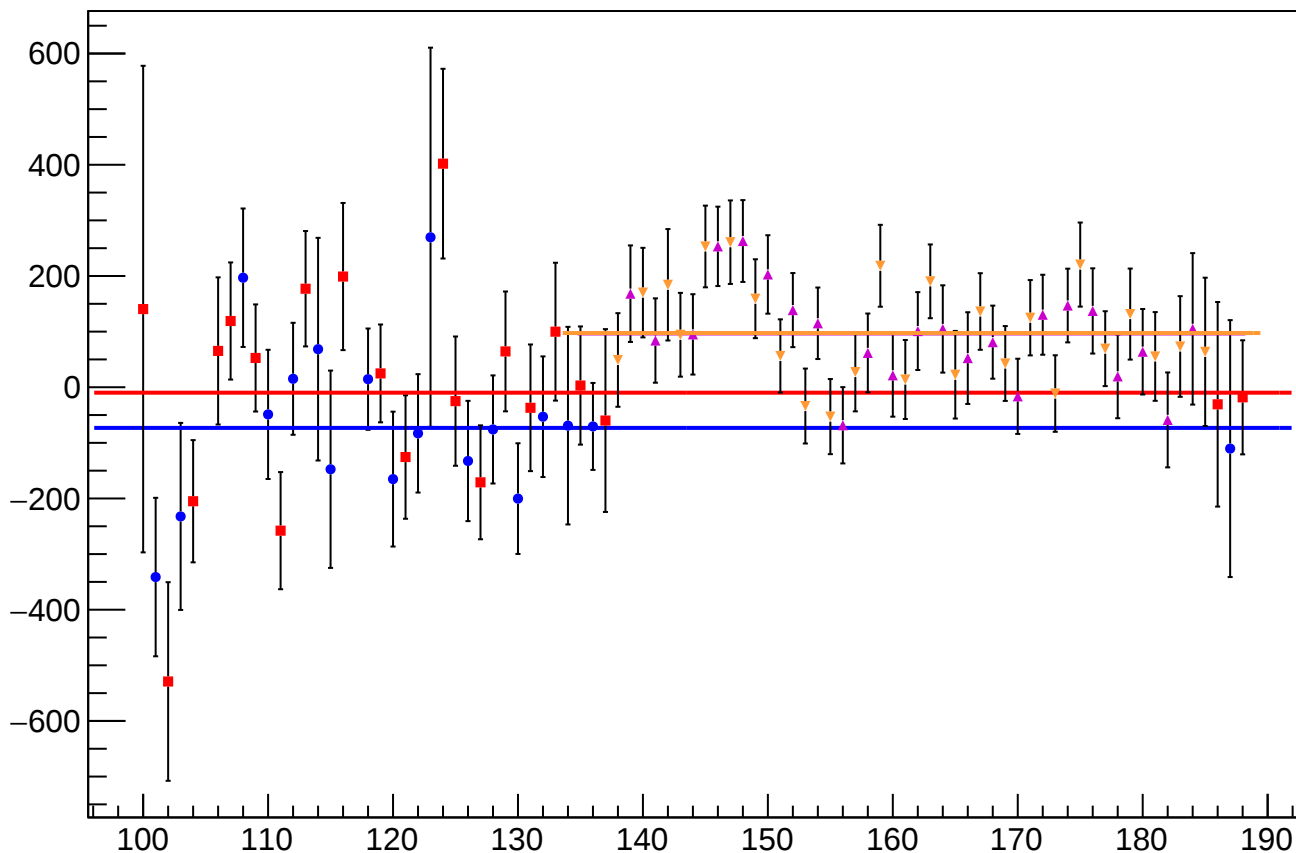
asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 525.745+/-0.828 χ^2/NDF : 323434.2/4
 Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24
 Right Out: 2229.372+/-1.464 χ^2/NDF : 543873.9/4
 Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47
 Right: 938.422+/-0.721 χ^2/NDF : 1892973.7/9
 In: 1021.724+/-0.174 χ^2/NDF : 1242286.0/27
 Out: 1053.943+/-0.171 χ^2/NDF : 1692104.4/29
 All: 1038.146+/-0.122 χ^2/NDF : 2951792.8/57

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -73.111 ± 28.221 $\chi^2/\text{NDF}: 15.2/17$

Left Out: 97.445 ± 14.880 $\chi^2/\text{NDF}: 36.0/24$

Right Out: -9.810 ± 25.754 $\chi^2/\text{NDF}: 36.3/20$

Left In: 96.704 ± 15.369 $\chi^2/\text{NDF}: 29.2/22$

Left: 97.087 ± 10.690 $\chi^2/\text{NDF}: 65.2/47$

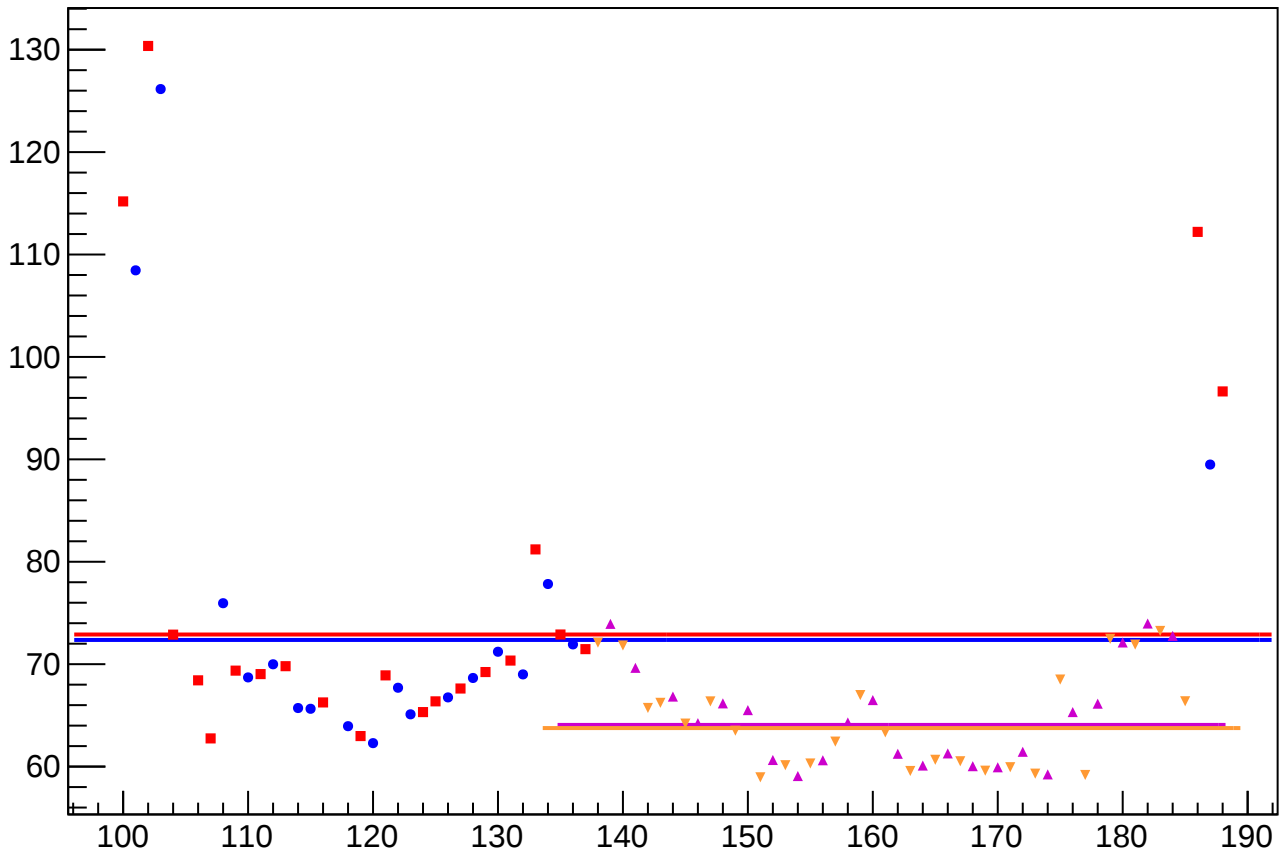
Right: -38.573 ± 19.023 $\chi^2/\text{NDF}: 54.2/38$

In: 57.860 ± 13.498 $\chi^2/\text{NDF}: 72.3/40$

Out: 70.603 ± 12.884 $\chi^2/\text{NDF}: 85.3/45$

All: 64.527 ± 9.320 $\chi^2/\text{NDF}: 158.0/86$

reg_asym_sam7_rms vs Slug, Sign Corrected

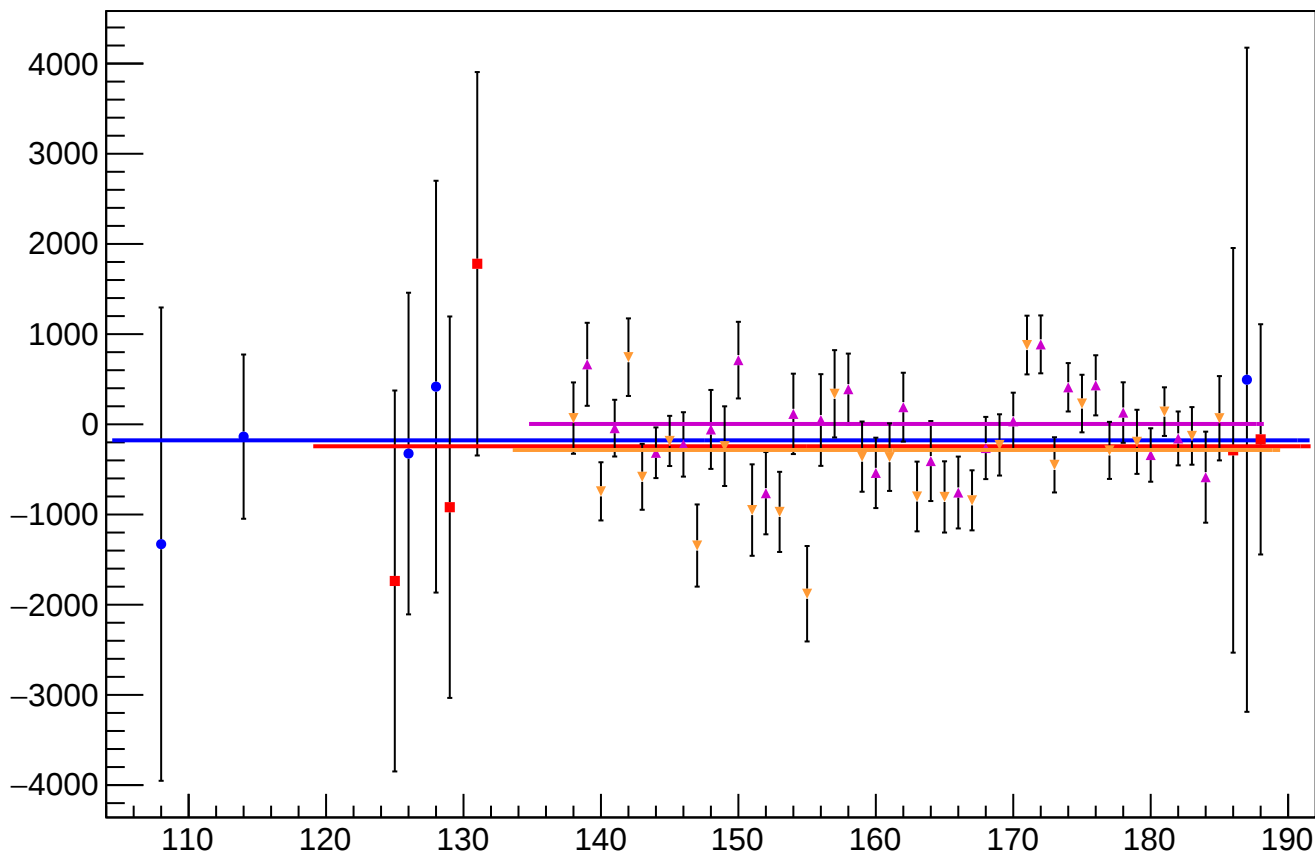


Right In: 72.366 ± 0.020 $\chi^2/\text{NDF}: 401950.8/17$
 Left Out: 63.761 ± 0.011 $\chi^2/\text{NDF}: 192803.8/24$
 Right Out: 72.896 ± 0.018 $\chi^2/\text{NDF}: 513444.3/20$
 Left In: 64.069 ± 0.011 $\chi^2/\text{NDF}: 164660.4/22$

Left: 63.910 ± 0.008 $\chi^2/\text{NDF}: 357877.2/47$
 Right: 72.655 ± 0.013 $\chi^2/\text{NDF}: 915781.0/38$
 In: 65.966 ± 0.010 $\chi^2/\text{NDF}: 699944.3/40$
 Out: 66.047 ± 0.009 $\chi^2/\text{NDF}: 894917.1/45$

All: 66.009 ± 0.007 $\chi^2/\text{NDF}: 1594899.0/86$

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -177.585 $\pm$ 719.523 χ^2 /NDF: 0.3/4

Left Out: -284.304 $\pm$ 72.732 χ^2 /NDF:55.1/24

Right Out: -243.348 $\pm$ 821.554 χ^2 /NDF: 1.5/4

Left In: 4.037 $\pm$ 75.084 χ^2 /NDF:32.4/22

Left: -144.720 $\pm$ 52.241 χ^2 /NDF: 95.0/47

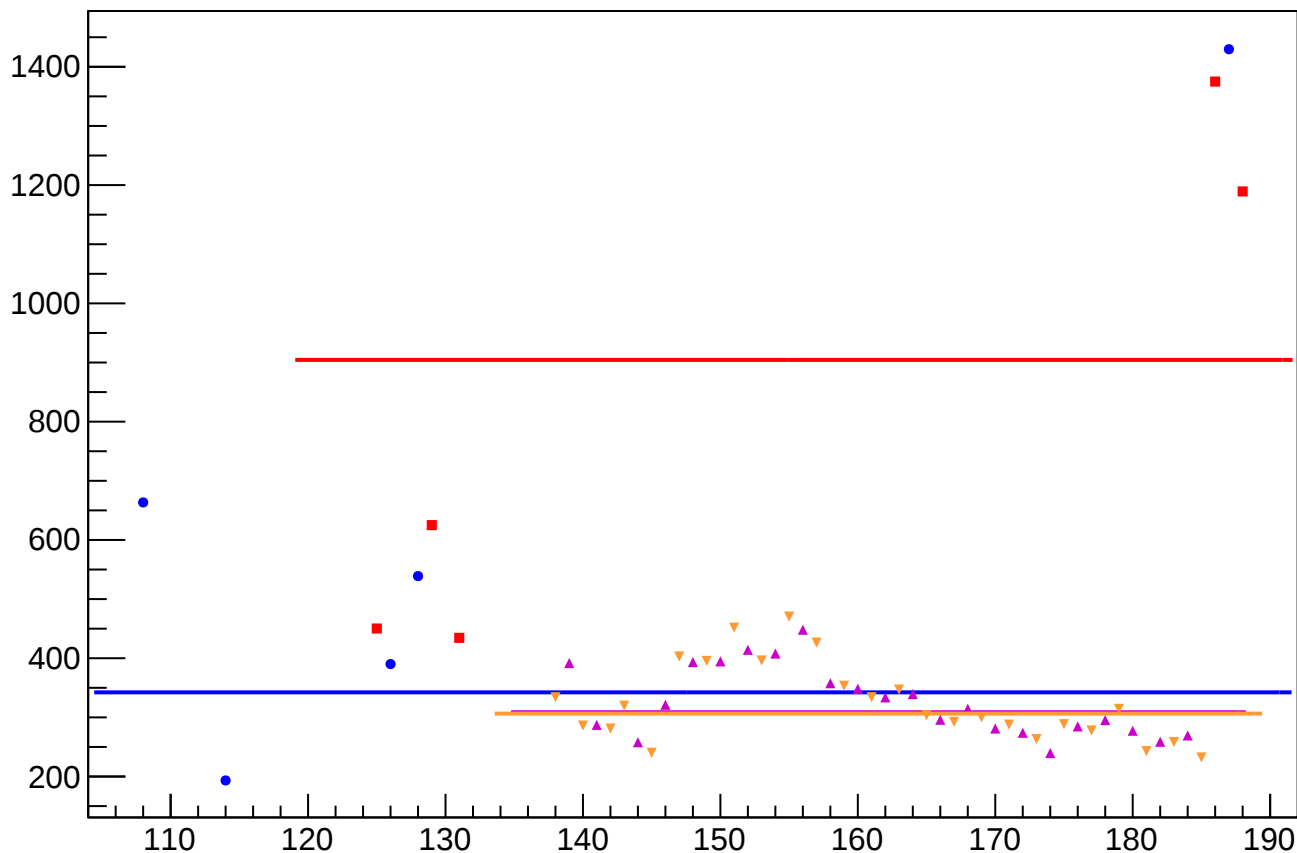
Right: -206.131 $\pm$ 541.279 χ^2 /NDF: 1.8/9

In: 2.080 $\pm$ 74.679 χ^2 /NDF:32.7/27

Out: -283.985 $\pm$ 72.449 χ^2 /NDF:56.6/29

All: -145.287 $\pm$ 52.000 χ^2 /NDF: 96.9/57

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 342.318+/-0.509 χ^2/NDF : 274156.6/4

Left Out: 306.363+/-0.051 χ^2/NDF :1215669.9/24

Right Out: 904.439+/-0.581 χ^2/NDF : 412765.2/4

Left In: 308.727+/-0.053 χ^2/NDF :1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

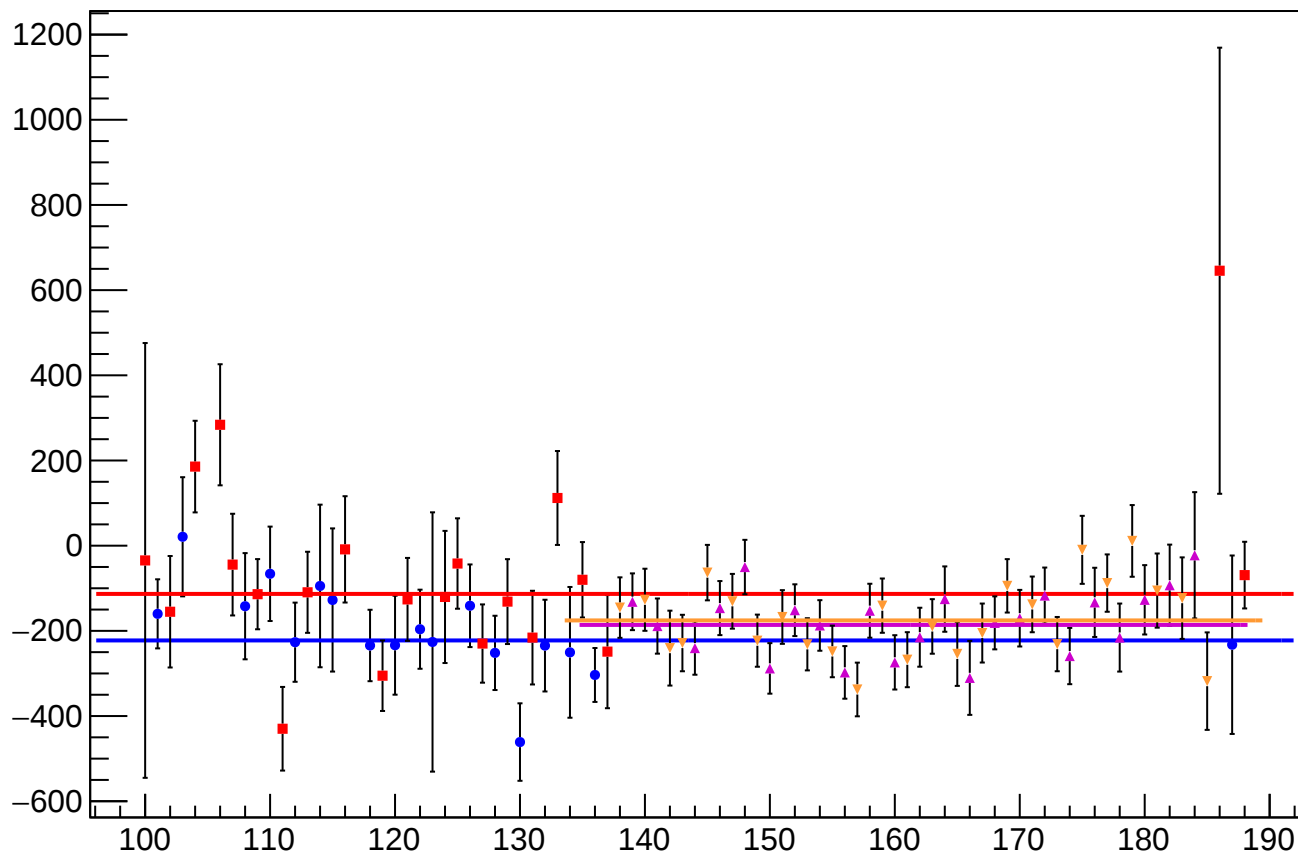
Right: 586.324+/-0.383 χ^2/NDF : 1216794.2/9

In: 309.088+/-0.053 χ^2/NDF :1281416.3/27

Out: 311.014+/-0.051 χ^2/NDF :2680107.5/29

All: 310.080+/-0.037 χ^2/NDF : 3962208.7/57

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -222.490 ± 24.766 $\chi^2/\text{NDF}: 16.3/17$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -113.246 ± 23.502 $\chi^2/\text{NDF}: 43.2/20$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

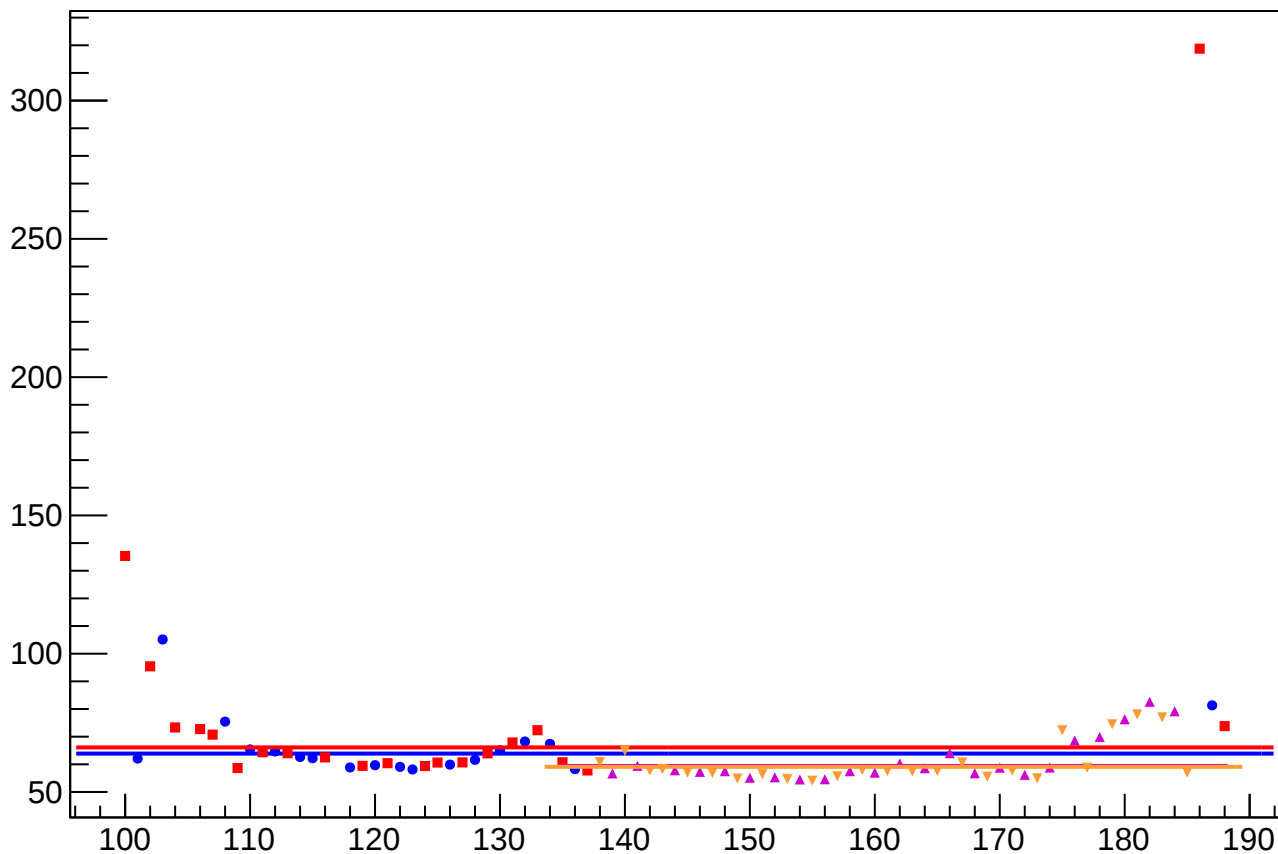
Right: -165.009 ± 17.048 $\chi^2/\text{NDF}: 69.7/38$

In: -195.174 ± 12.394 $\chi^2/\text{NDF}: 41.5/40$

Out: -159.438 ± 11.929 $\chi^2/\text{NDF}: 83.1/45$

All: -176.624 ± 8.595 $\chi^2/\text{NDF}: 128.8/86$

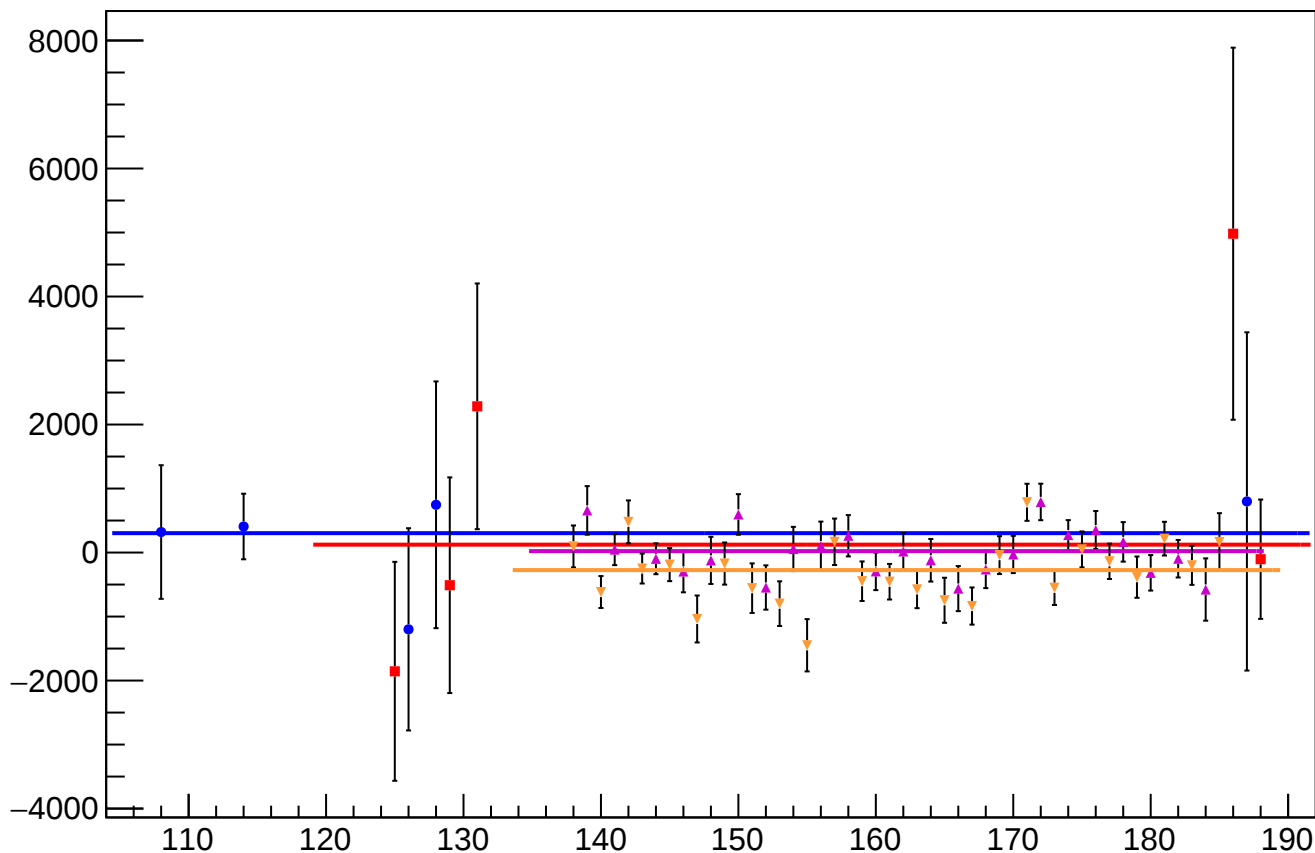
reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 63.876 $\pm$ 0.018 χ^2 /NDF: 247978.8/17
Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24
Right Out: 66.113 $\pm$ 0.017 χ^2 /NDF: 717014.2/20
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: 65.053 $\pm$ 0.012 χ^2 /NDF: 973581.7/38
In: 60.529 $\pm$ 0.009 χ^2 /NDF: 669774.4/40
Out: 60.907 $\pm$ 0.008 χ^2 /NDF: 1219048.8/45
All: 60.725 $\pm$ 0.006 χ^2 /NDF: 1889788.0/86

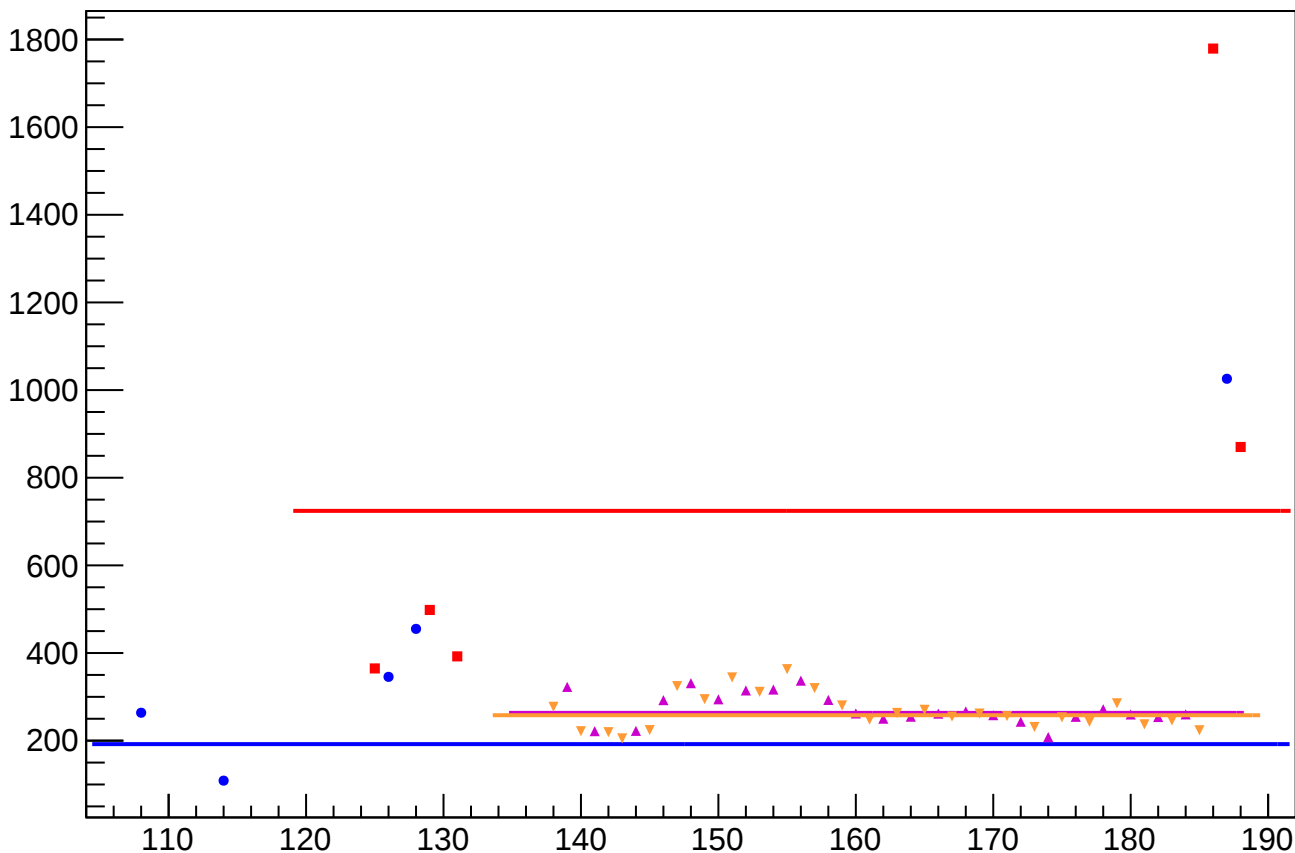
asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: 302.986 ± 424.837 $\chi^2/\text{NDF}: 1.0/4$
 Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$
 Right Out: 123.424 ± 668.898 $\chi^2/\text{NDF}: 5.6/4$
 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: 251.372 ± 358.619 $\chi^2/\text{NDF}: 6.7/9$
 In: 28.784 ± 62.941 $\chi^2/\text{NDF}: 30.4/27$
 Out: -270.834 ± 60.550 $\chi^2/\text{NDF}: 59.9/29$
 All: -126.824 ± 43.636 $\chi^2/\text{NDF}: 102.0/57$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 192.101+/-0.300 χ^2/NDF : 317541.2/4

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 724.385+/-0.473 χ^2/NDF : 496618.0/4

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

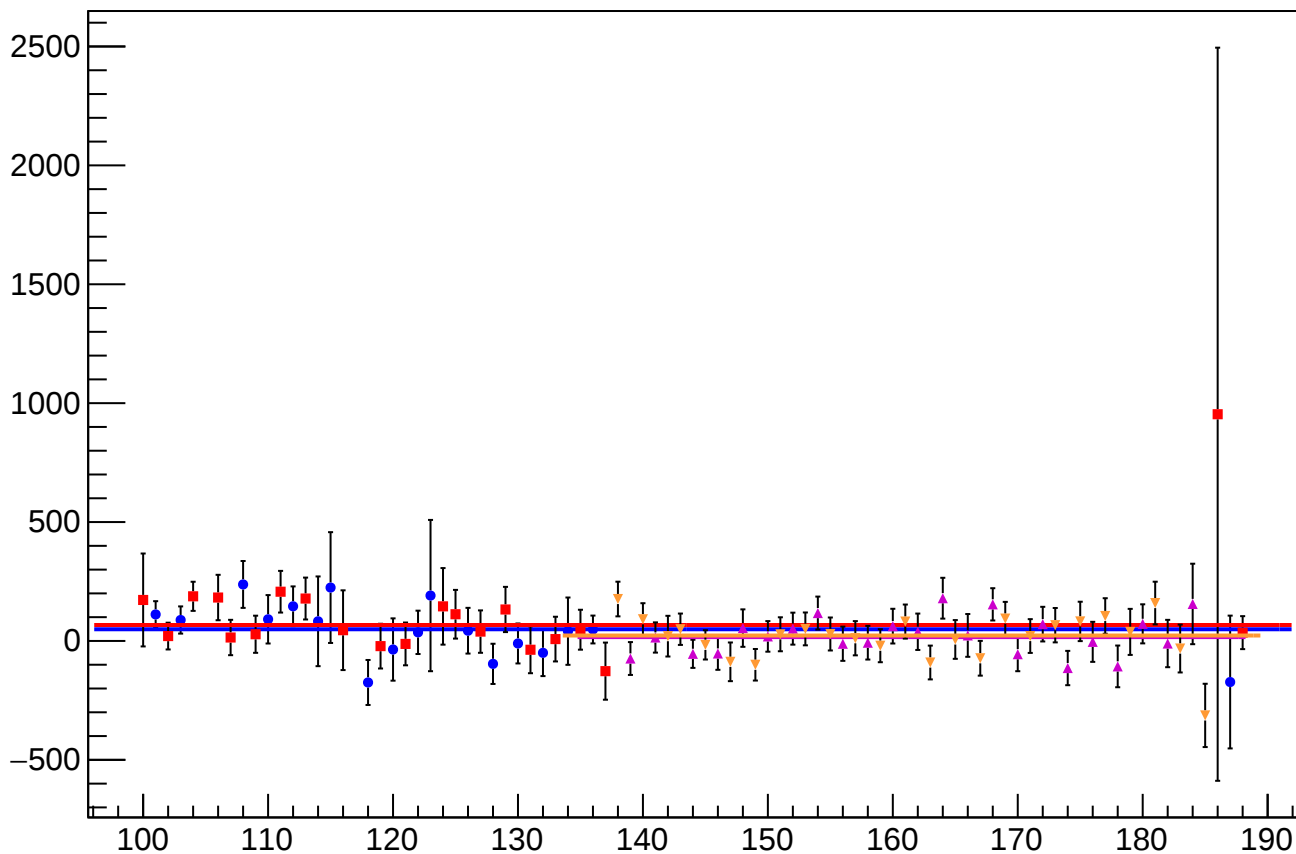
Right: 345.101+/-0.254 χ^2/NDF : 1716600.7/9

In: 261.832+/-0.045 χ^2/NDF : 958231.4/27

Out: 261.861+/-0.043 χ^2/NDF : 2185606.9/29

All: 261.847+/-0.031 χ^2/NDF : 3143838.5/57

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 49.146 $\pm$ 21.483 χ^2 /NDF: 18.9/17

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 67.097 $\pm$ 19.611 χ^2 /NDF: 18.6/20

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

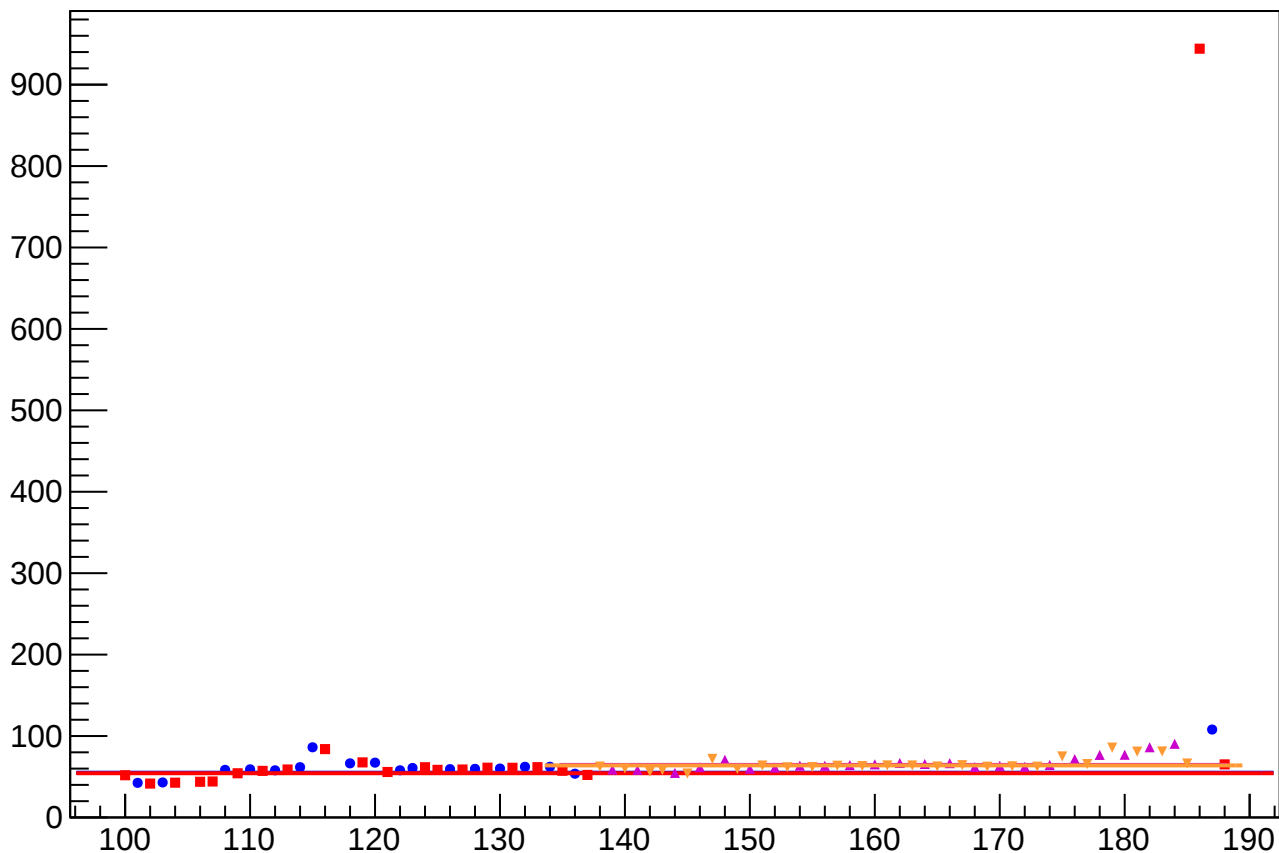
Right: 58.938 $\pm$ 14.484 χ^2 /NDF: 37.9/38

In: 27.507 $\pm$ 12.586 χ^2 /NDF:43.7/40

Out: 39.150 $\pm$ 11.898 χ^2 /NDF:50.8/45

All: 33.655 $\pm$ 8.646 χ^2 /NDF: 95.0/86

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 54.956 $\pm$ 0.015 χ^2 /NDF: 391539.0/17

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF:395410.4/24

Right Out: 54.320 $\pm$ 0.014 χ^2 /NDF: 1109181.5/20

Left In: 64.511 $\pm$ 0.011 χ^2 /NDF:370515.2/22

Left: 64.204 $\pm$ 0.008 χ^2 /NDF: 767426.6/47

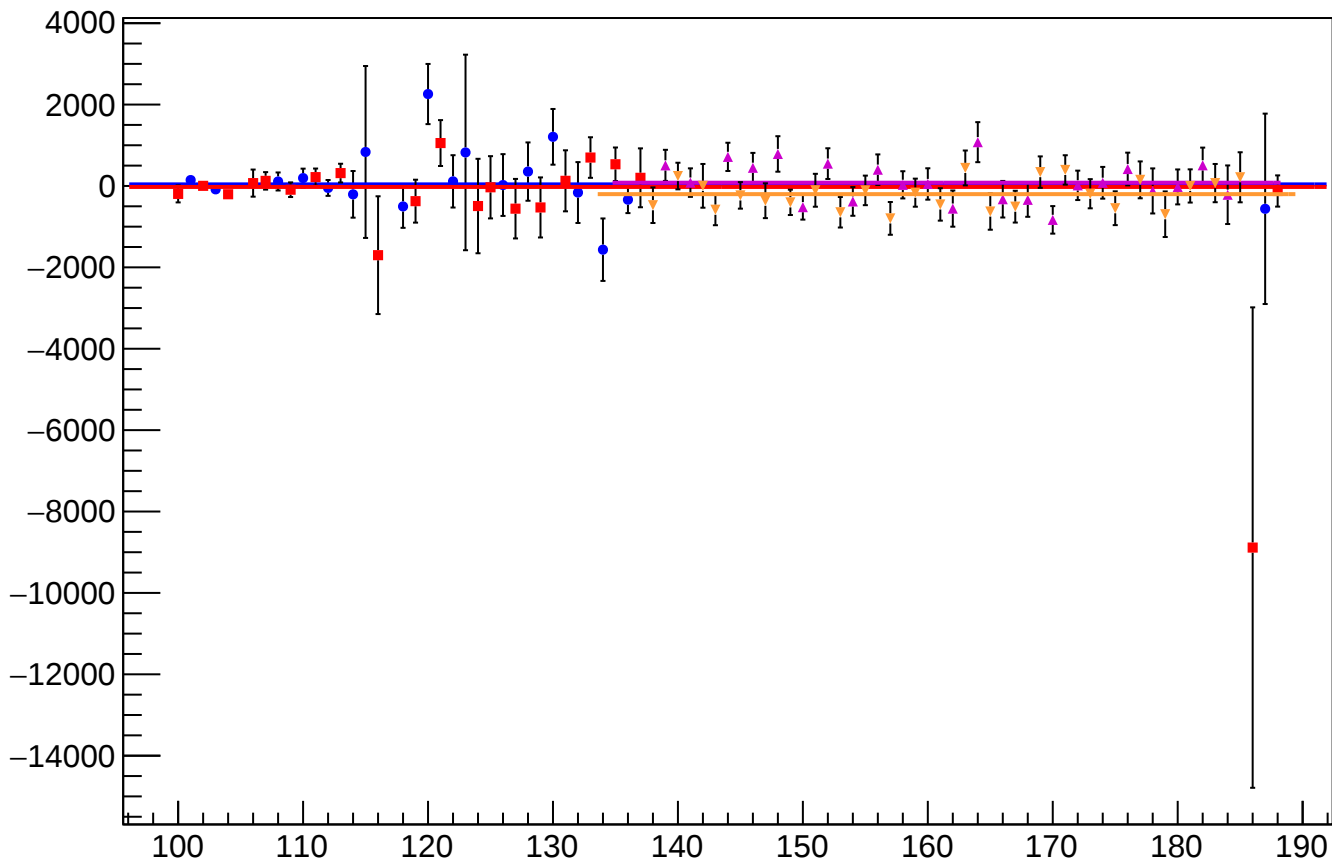
Right: 54.609 $\pm$ 0.010 χ^2 /NDF: 1501676.7/38

In: 61.231 $\pm$ 0.009 χ^2 /NDF:1021879.9/40

Out: 60.386 $\pm$ 0.008 χ^2 /NDF:1807429.6/45

All: 60.785 $\pm$ 0.006 χ^2 /NDF: 2834070.5/86

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected

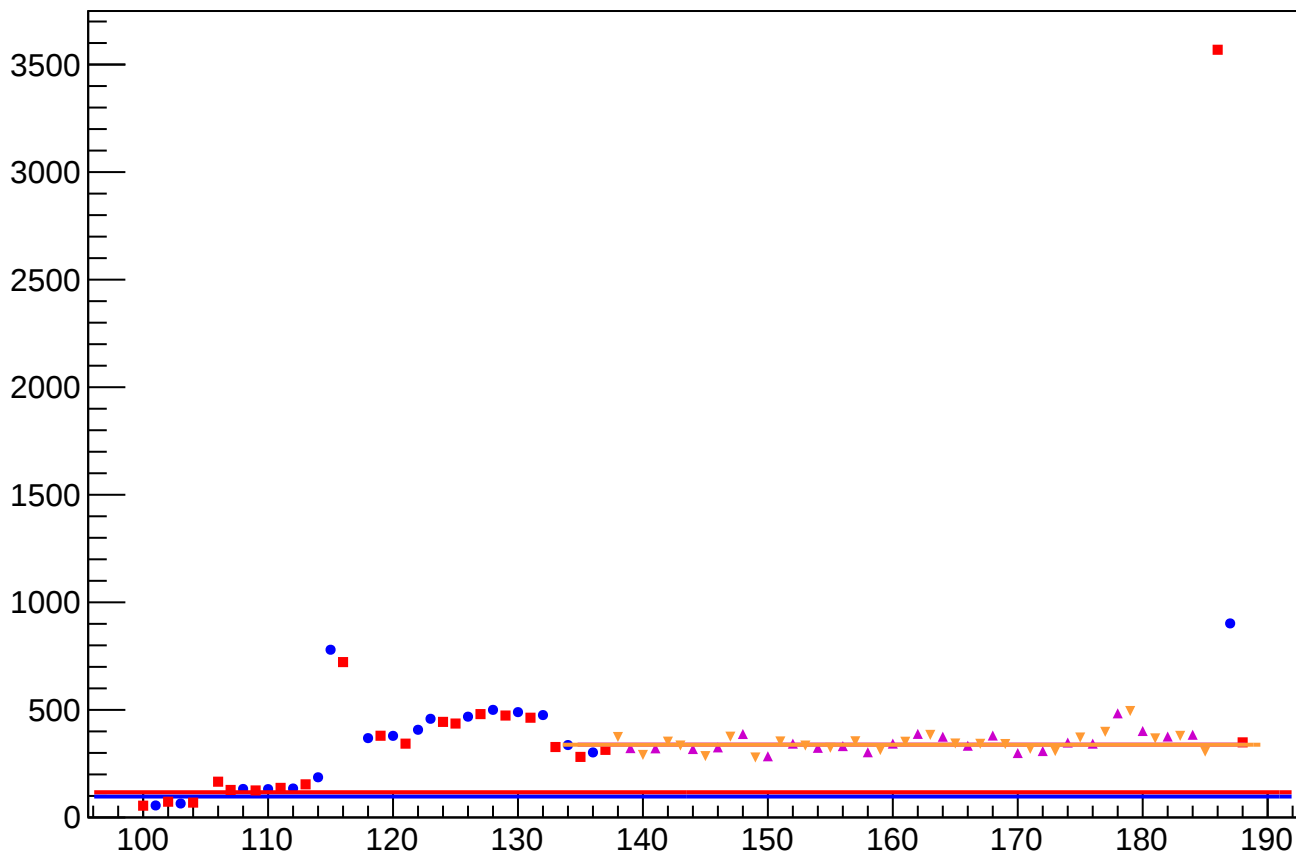


Right In: 38.725 ± 51.549 χ^2/NDF : 23.9/17
 Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24
 Right Out: -24.064 ± 52.780 χ^2/NDF : 21.1/20
 Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47
 Right: 8.071 ± 36.878 χ^2/NDF : 45.7/38
 In: 50.457 ± 43.609 χ^2/NDF : 57.5/40
 Out: -78.172 ± 43.980 χ^2/NDF : 44.2/45

All: -13.312 ± 30.966 χ^2/NDF : 106.0/86

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 97.291+/-0.036 χ^2/NDF : 6037166.9/17

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 117.269+/-0.037 χ^2/NDF : 6444864.6/20

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

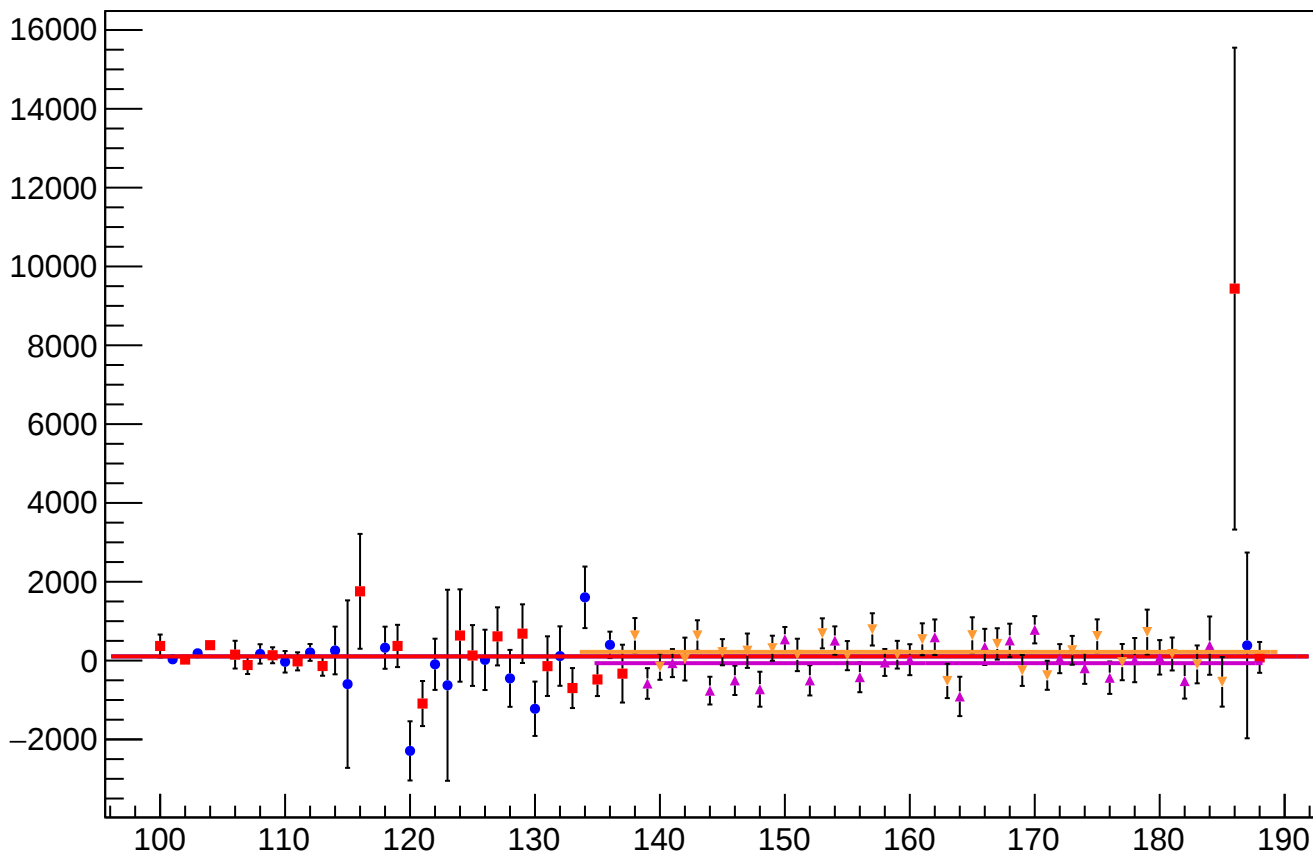
Right: 107.044+/-0.026 χ^2/NDF : 12628695.5/38

In: 165.894+/-0.031 χ^2/NDF : 18932471.9/40

Out: 184.778+/-0.031 χ^2/NDF : 17648094.7/45

All: 175.256+/-0.022 χ^2/NDF : 36766492.8/86

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 105.862 $\pm$ 63.164 χ^2 /NDF: 21.0/17

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 106.058 $\pm$ 60.152 χ^2 /NDF: 23.6/20

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

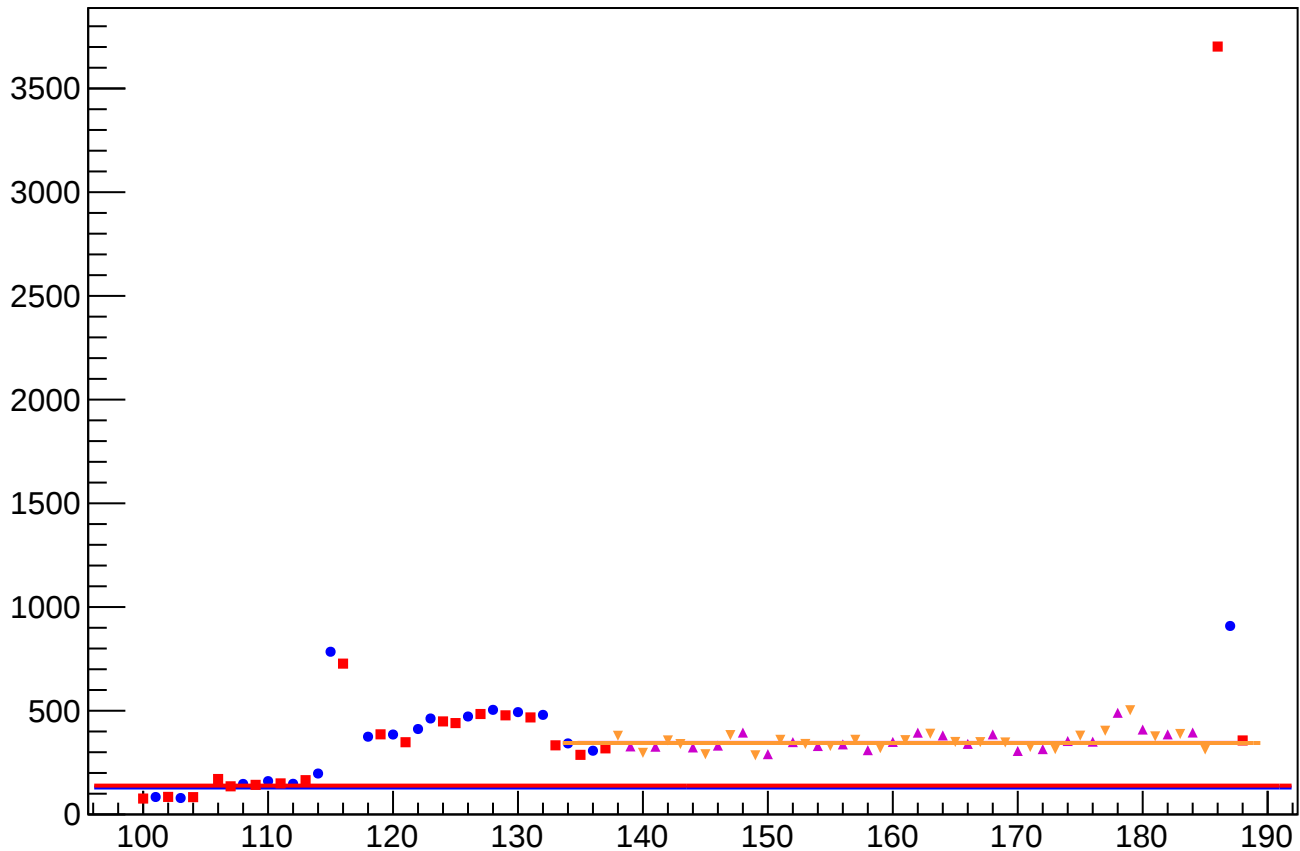
Right: 105.965 $\pm$ 43.560 χ^2 /NDF: 44.6/38

In: 43.317 $\pm$ 50.335 χ^2 /NDF:57.7/40

Out: 146.932 $\pm$ 48.296 χ^2 /NDF:44.6/45

All: 97.266 $\pm$ 34.849 χ^2 /NDF: 104.4/86

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 129.936+/-0.045 χ^2/NDF : 4977144.1/17

Left Out: 344.506+/-0.057 χ^2/NDF : 488323.4/24

Right Out: 139.050+/-0.043 χ^2/NDF : 5664149.9/20

Left In: 345.039+/-0.059 χ^2/NDF : 427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

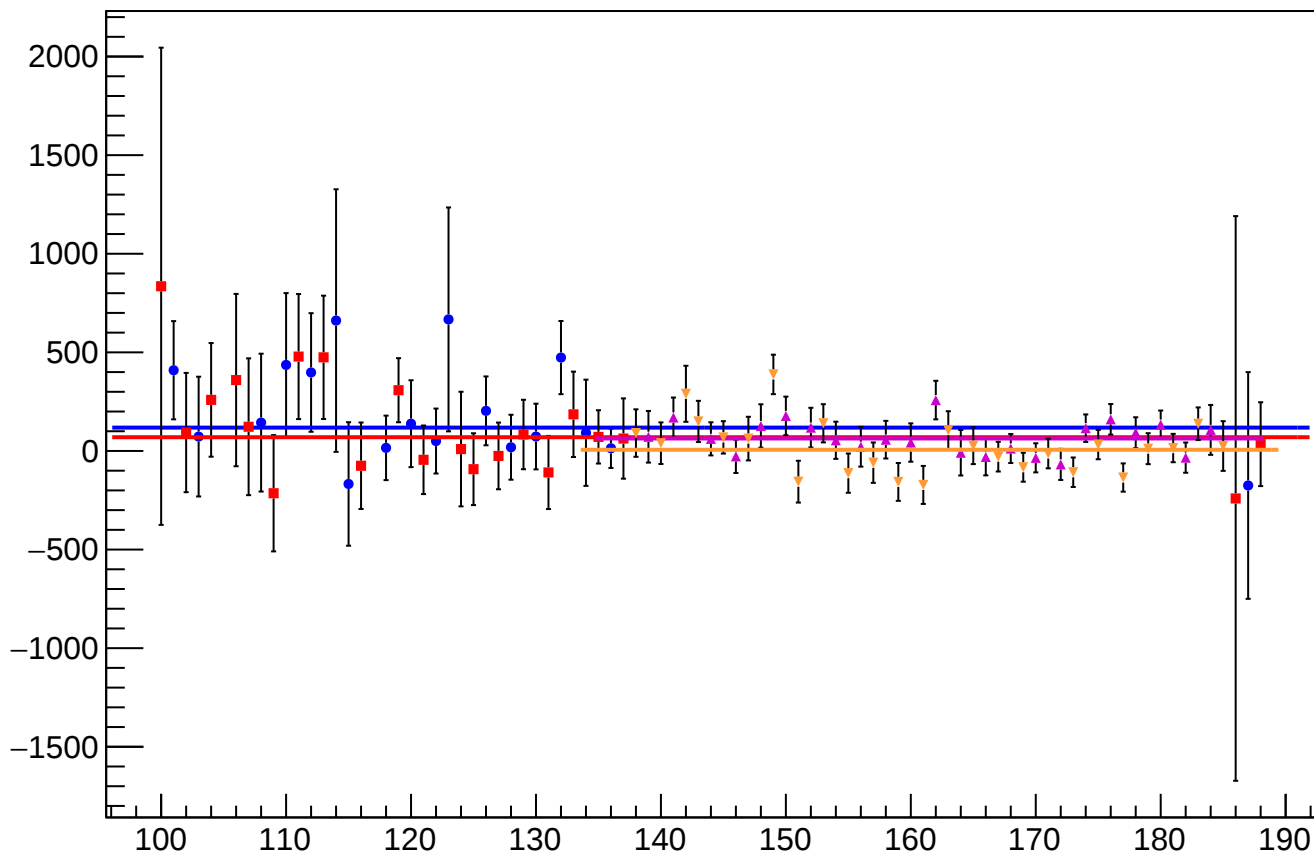
Right: 134.716+/-0.031 χ^2/NDF : 10663131.6/38

In: 208.441+/-0.036 χ^2/NDF : 13869654.2/40

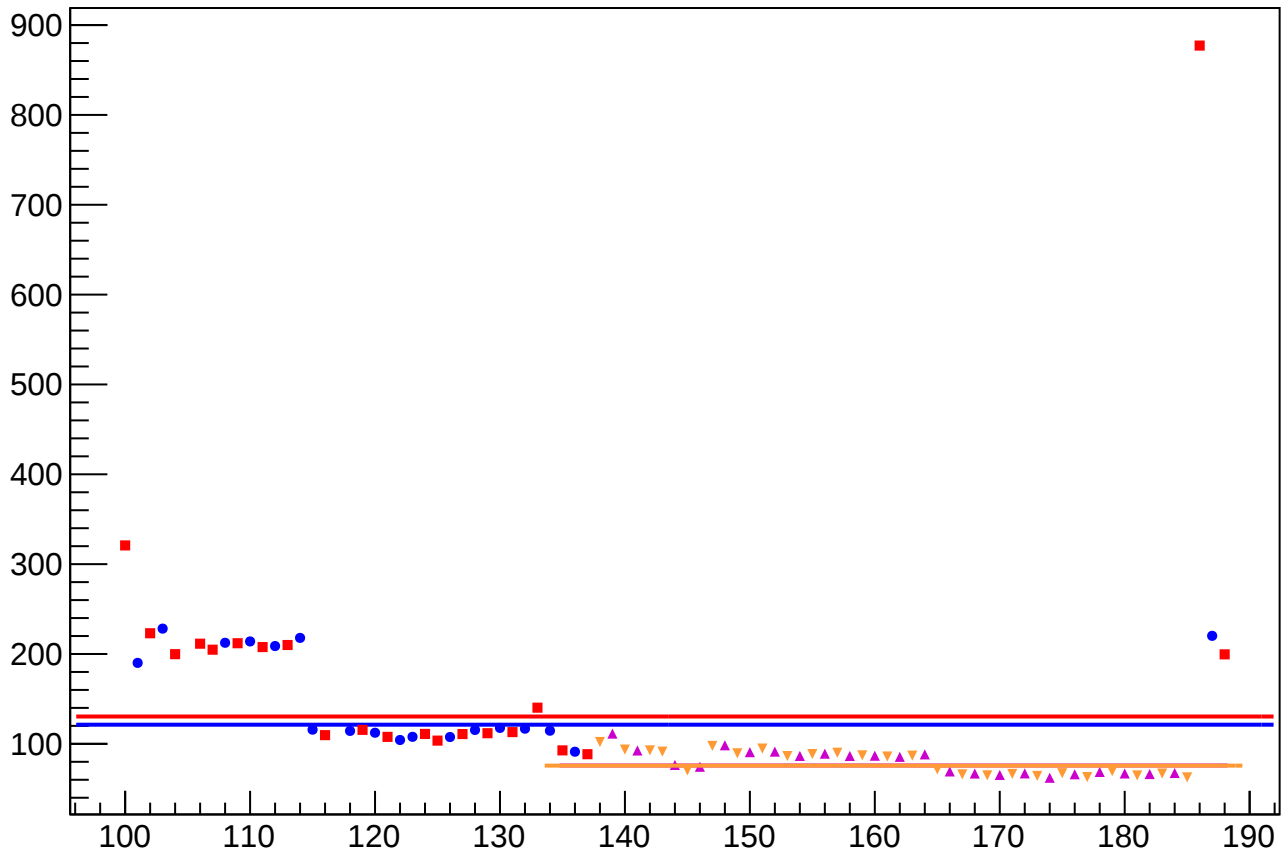
Out: 212.059+/-0.034 χ^2/NDF : 14443755.9/45

All: 210.325+/-0.025 χ^2/NDF : 28318788.6/86

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 121.300 $\pm$ 0.035 χ^2 /NDF: 1166989.2/17

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF: 937821.8/24

Right Out: 130.414 $\pm$ 0.034 χ^2 /NDF: 2103542.4/20

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

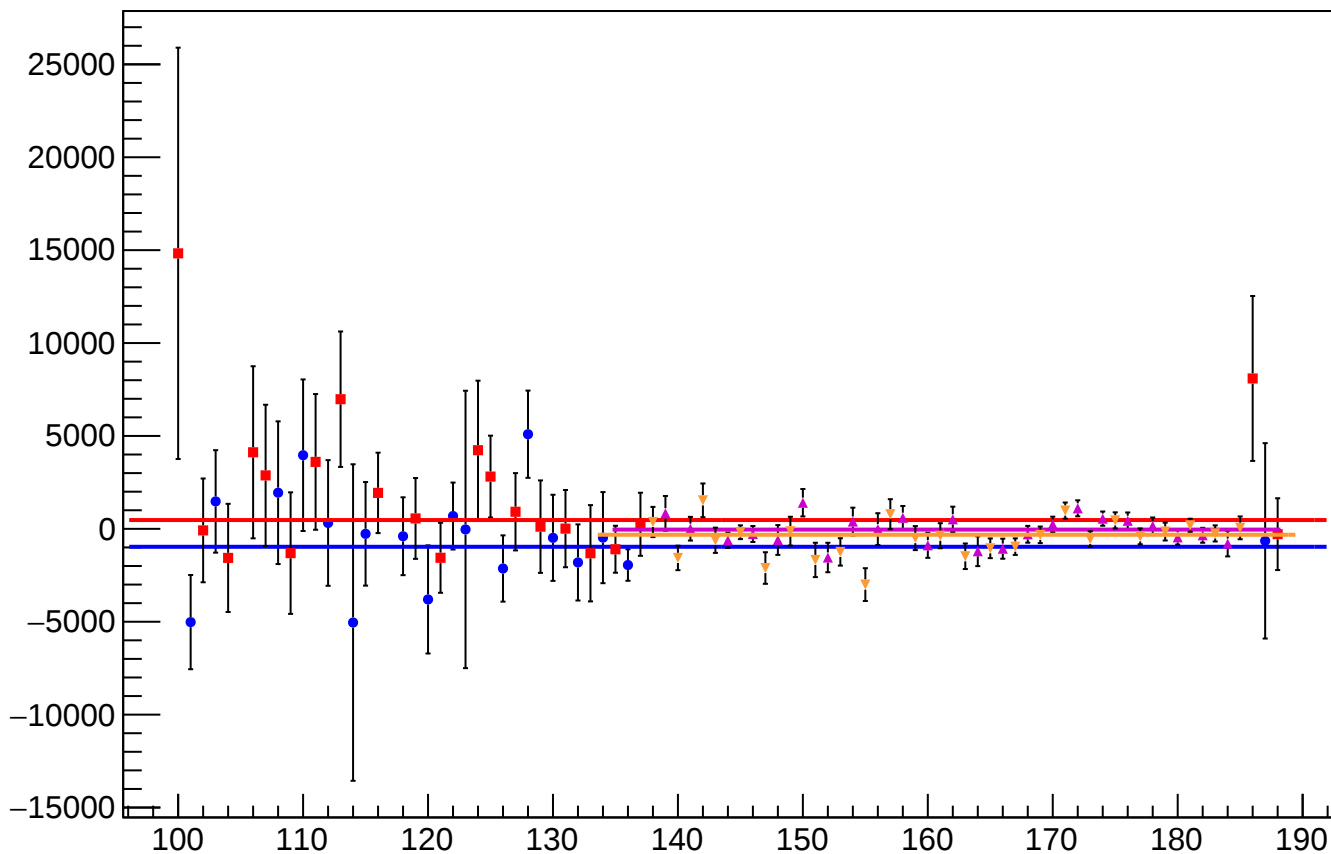
Right: 125.888 $\pm$ 0.024 χ^2 /NDF: 3305326.3/38

In: 81.540 $\pm$ 0.012 χ^2 /NDF: 3500406.3/40

Out: 82.258 $\pm$ 0.012 χ^2 /NDF: 5262355.7/45

All: 81.908 $\pm$ 0.009 χ^2 /NDF: 8764541.0/86

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -965.598+/-510.983 χ^2/NDF : 16.4/17

Left Out: -318.064+/-108.014 χ^2/NDF : 50.0/24

Right Out: 473.856+/-522.476 χ^2/NDF : 16.5/20

Left In: -40.473+/-110.252 χ^2/NDF : 34.7/22

Left: -182.115+/-77.156 χ^2/NDF : 88.0/47

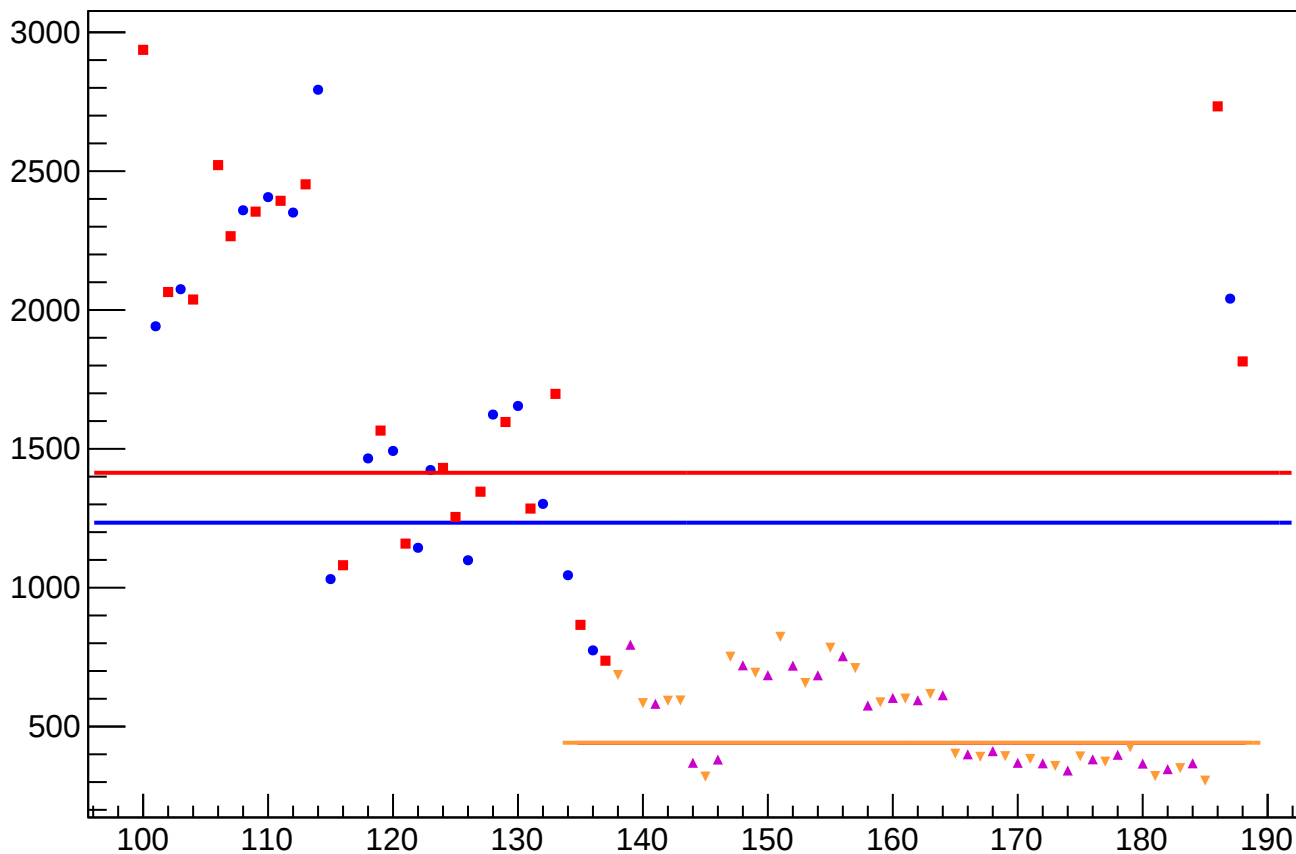
Right: -261.877+/-365.315 χ^2/NDF : 36.7/38

In: -81.626+/-107.772 χ^2/NDF : 54.2/40

Out: -285.606+/-105.777 χ^2/NDF : 68.7/45

All: -185.521+/-75.491 χ^2/NDF : 124.8/86

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1234.101 $\pm$ 0.361 χ^2/NDF : 1801916.5/17

Left Out: 441.685 $\pm$ 0.076 χ^2/NDF : 3169140.9/24

Right Out: 1413.824 $\pm$ 0.369 χ^2/NDF : 2030632.0/20

Left In: 441.009 $\pm$ 0.078 χ^2/NDF : 2597018.1/22

Left: 441.354 $\pm$ 0.055 χ^2/NDF : 5766197.3/47

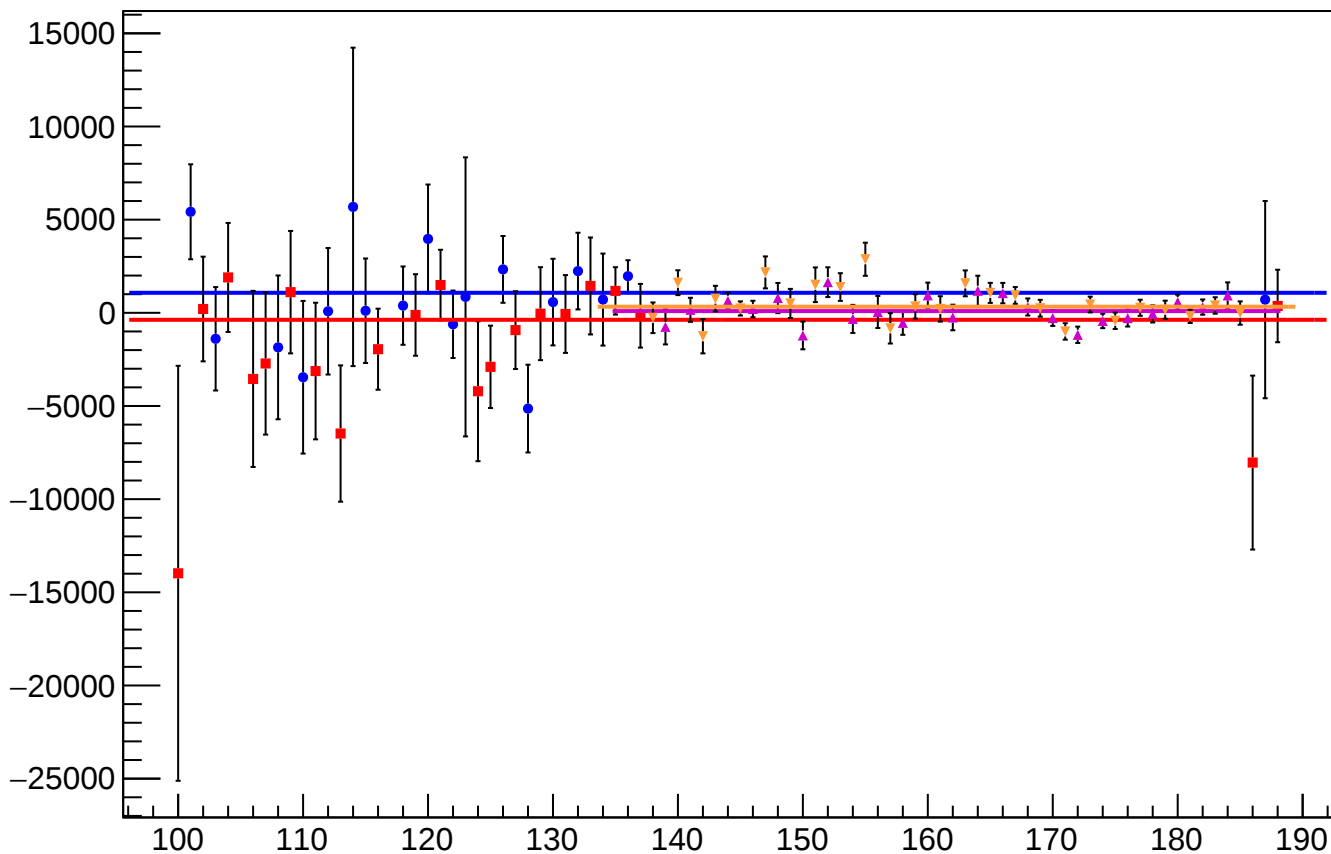
Right: 1321.964 $\pm$ 0.258 χ^2/NDF : 3953505.2/38

In: 476.288 $\pm$ 0.076 χ^2/NDF : 9002589.9/40

Out: 481.530 $\pm$ 0.075 χ^2/NDF : 11839940.1/45

All: 478.958 $\pm$ 0.053 χ^2/NDF : 20844939.6/86

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1075.375+/-513.907 χ^2/NDF : 16.9/17

Left Out: 328.599+/-109.668 χ^2/NDF : 47.7/24

Right Out: -374.064+/-525.558 χ^2/NDF : 15.3/20

Left In: 93.310+/-111.960 χ^2/NDF : 33.3/22

Left: 213.387+/-78.345 χ^2/NDF : 83.3/47

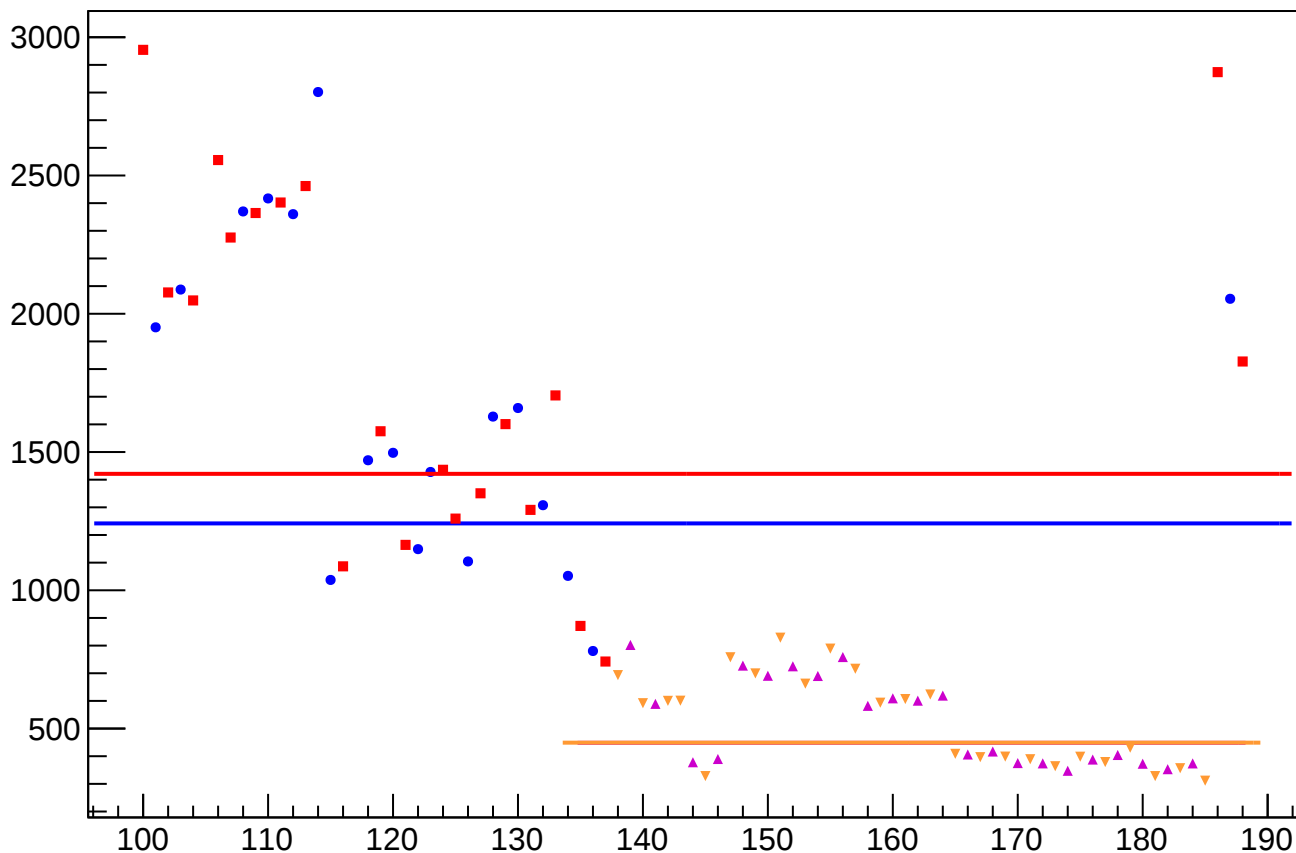
Right: 366.900+/-367.437 χ^2/NDF : 36.1/38

In: 137.810+/-109.394 χ^2/NDF : 53.7/40

Out: 299.279+/-107.356 χ^2/NDF : 64.8/45

All: 220.063+/-76.622 χ^2/NDF : 119.6/86

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1241.864+/-0.363 χ^2/NDF : 1789521.9/17

Left Out: 449.016+/-0.078 χ^2/NDF : 3090476.2/24

Right Out: 1421.115+/-0.372 χ^2/NDF : 2044281.2/20

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

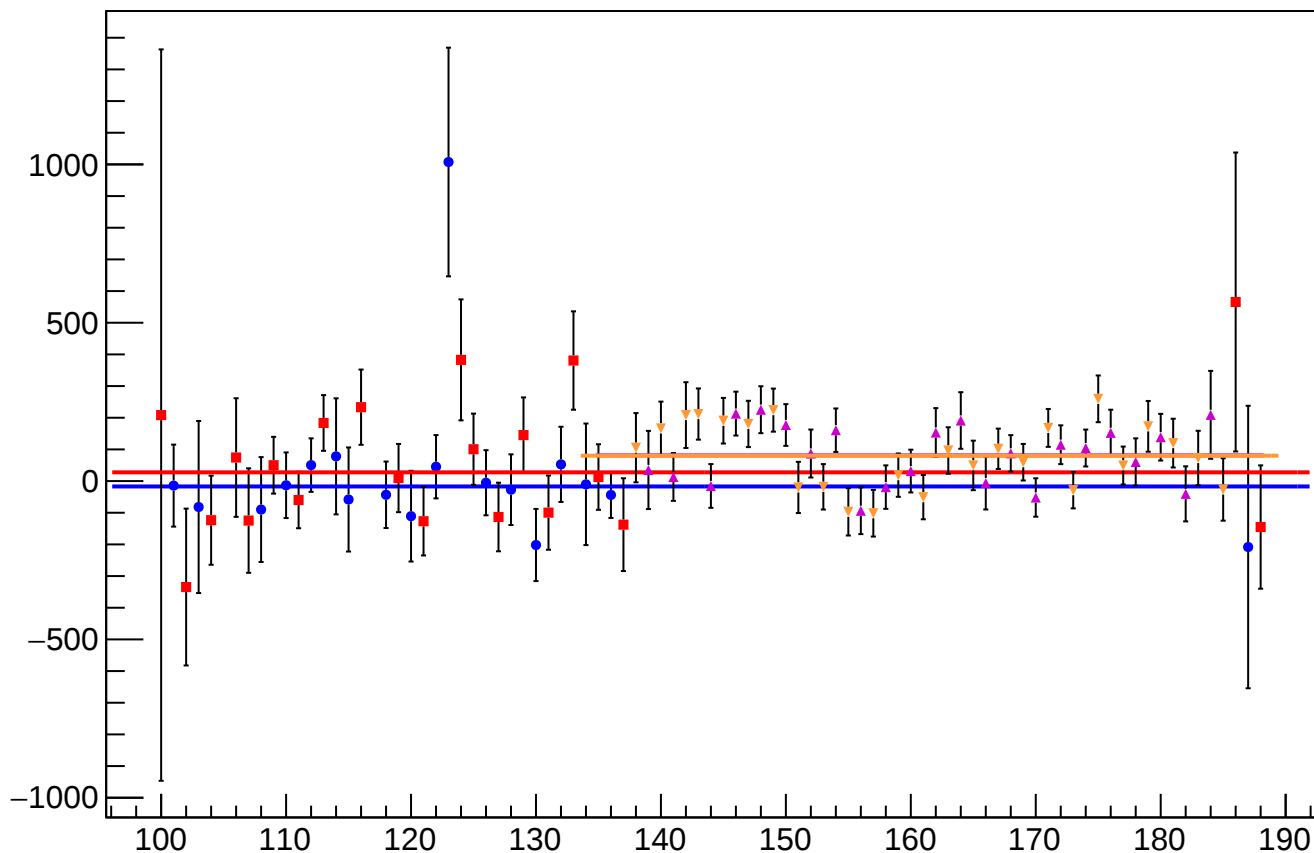
Right: 1329.481+/-0.260 χ^2/NDF : 3952739.2/38

In: 484.265+/-0.077 χ^2/NDF : 8879698.3/40

Out: 489.579+/-0.076 χ^2/NDF : 11691680.2/45

All: 486.972+/-0.054 χ^2/NDF : 20573782.4/86

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -17.007 ± 28.846 $\chi^2/\text{NDF}: 13.5/17$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 27.595 ± 27.715 $\chi^2/\text{NDF}: 29.7/20$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

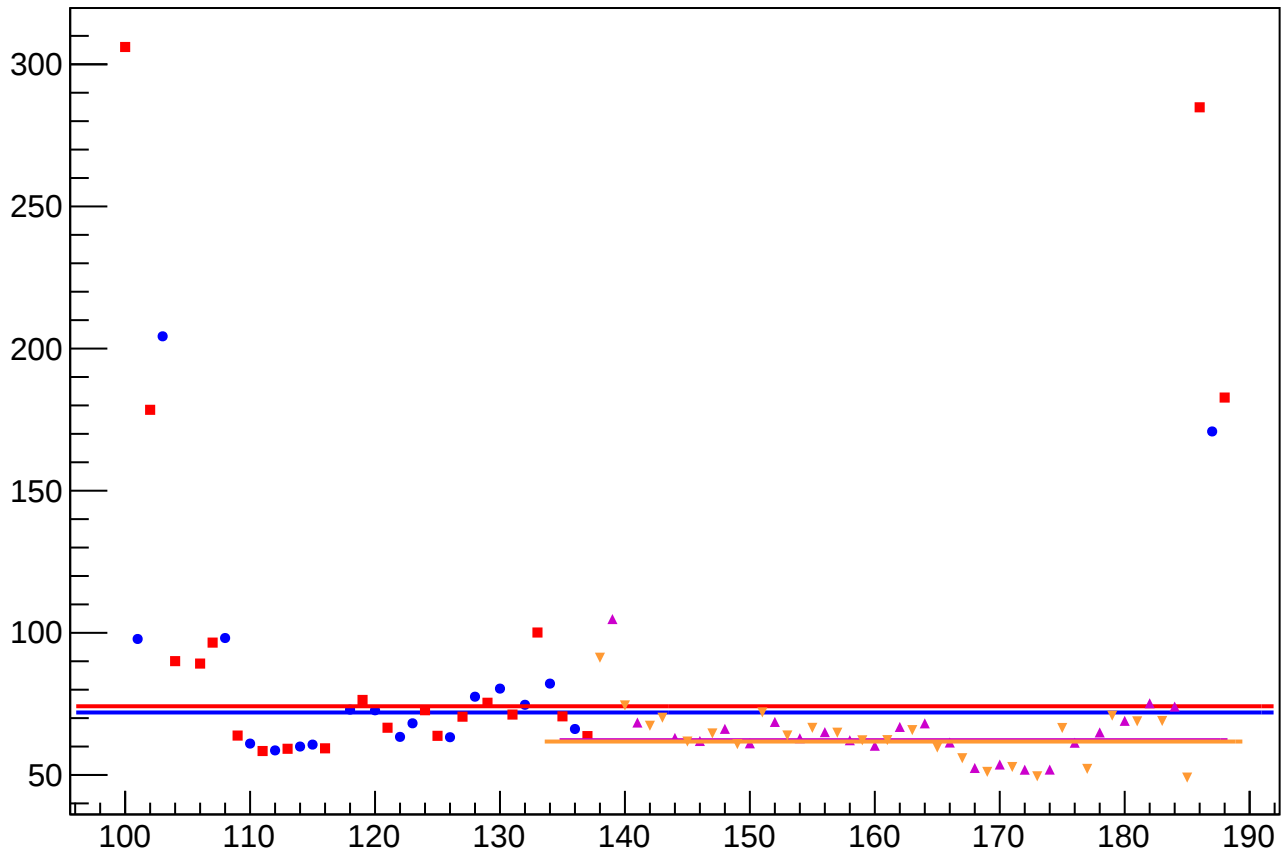
Right: 6.185 ± 19.985 $\chi^2/\text{NDF}: 44.5/38$

In: 60.031 ± 13.382 $\chi^2/\text{NDF}: 57.9/40$

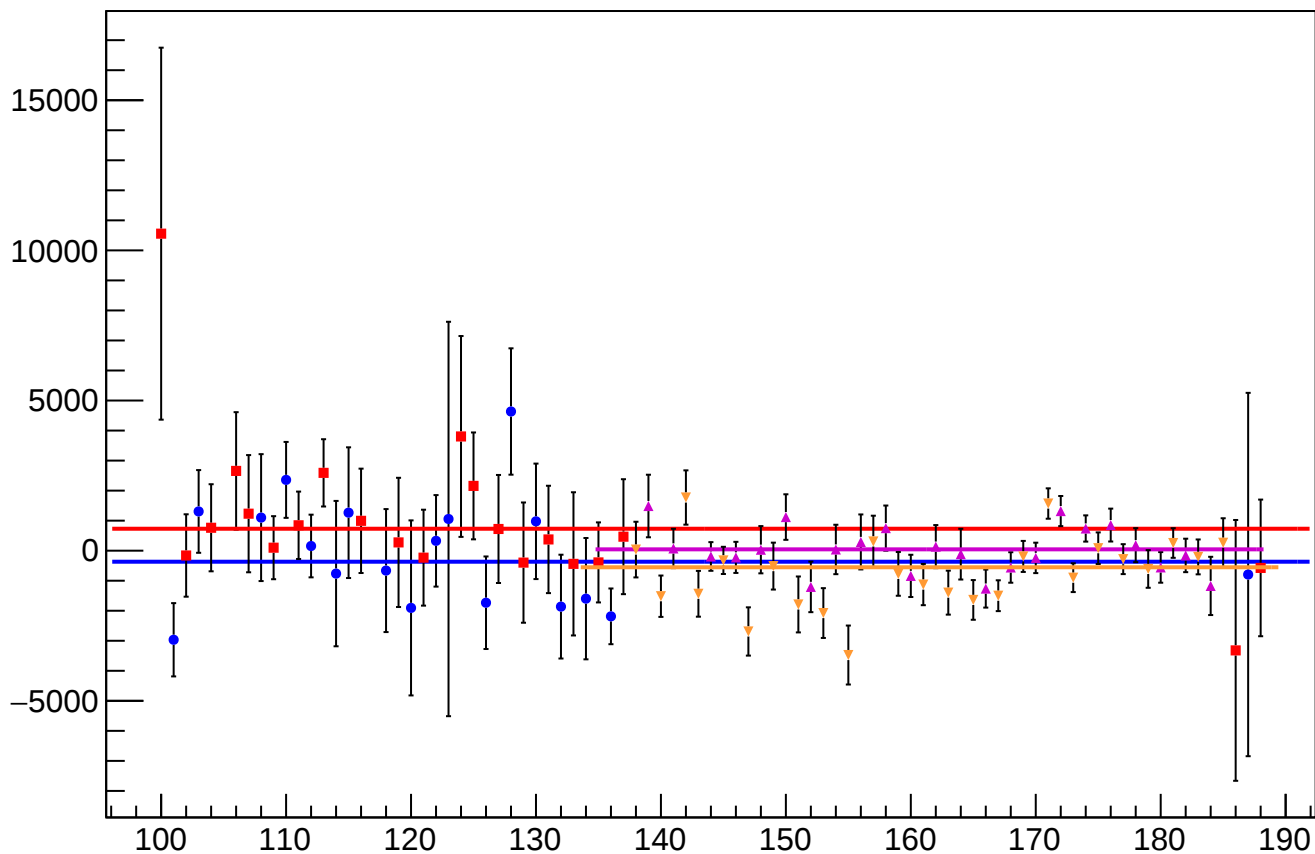
Out: 68.760 ± 12.912 $\chi^2/\text{NDF}: 81.1/45$

All: 64.551 ± 9.292 $\chi^2/\text{NDF}: 139.2/86$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -367.449+/-382.212 χ^2/NDF : 24.4/17

Left Out: -552.511+/-126.981 χ^2/NDF : 65.3/24

Right Out: 730.641+/-364.439 χ^2/NDF : 11.5/20

Left In: 44.578+/-129.095 χ^2/NDF : 29.6/22

Left: -258.894+/-90.527 χ^2/NDF : 105.7/47

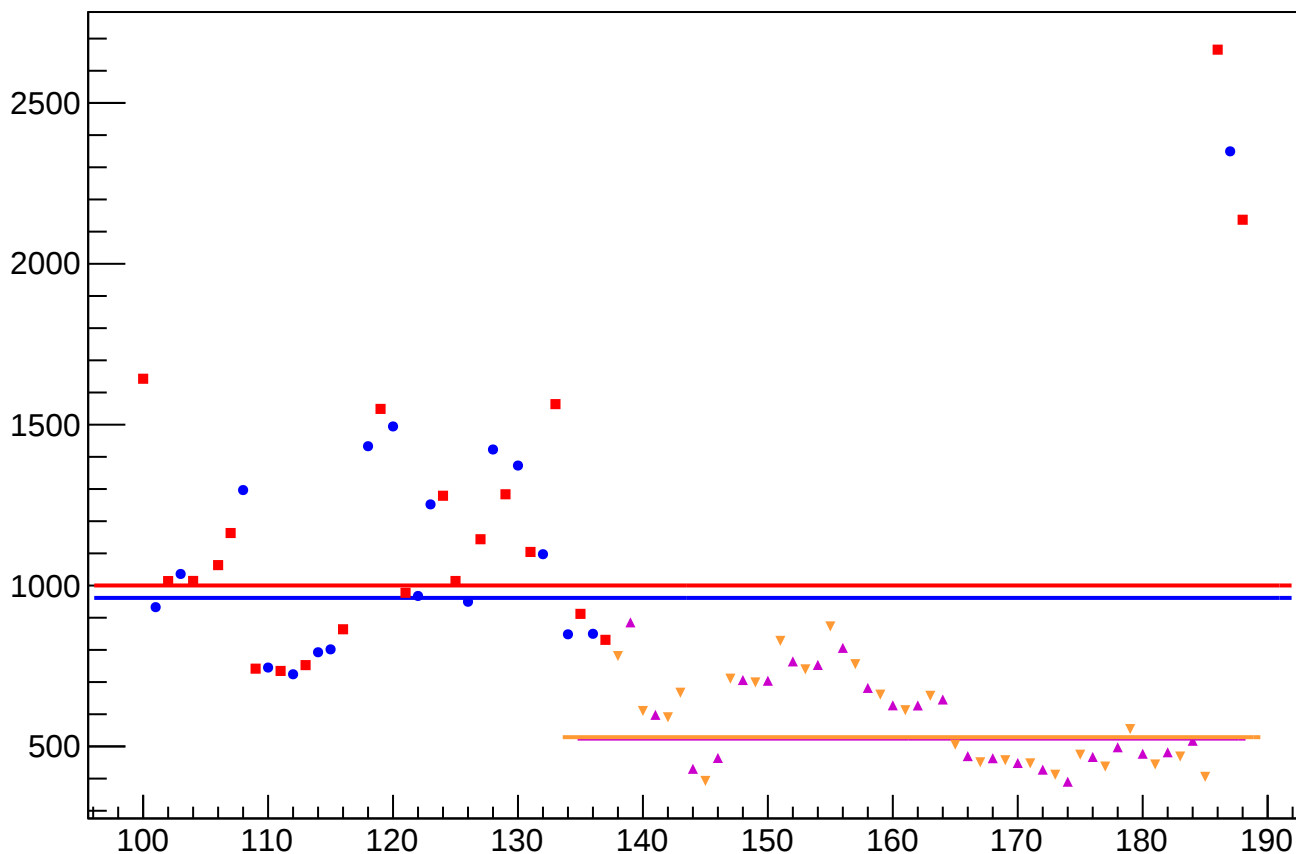
Right: 207.720+/-263.757 χ^2/NDF : 40.3/38

In: 2.388+/-122.307 χ^2/NDF : 55.0/40

Out: -413.597+/-119.911 χ^2/NDF : 87.9/45

All: -209.719+/-85.624 χ^2/NDF : 148.8/86

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 961.610+/-0.270 χ^2/NDF : 757385.5/17

Left Out: 528.736+/-0.090 χ^2/NDF : 1983697.7/24

Right Out: 1000.238+/-0.258 χ^2/NDF : 1515069.8/20

Left In: 524.268+/-0.091 χ^2/NDF : 1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

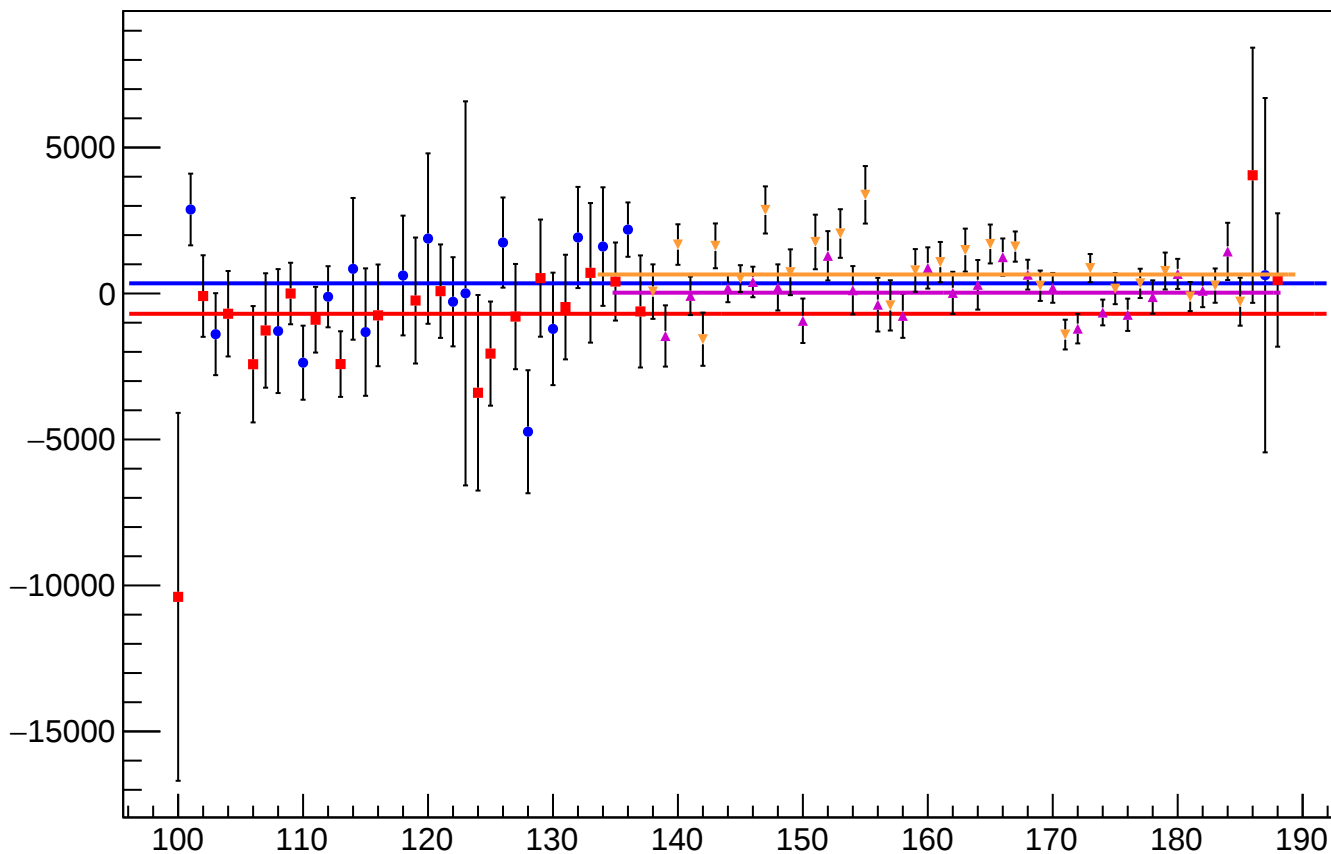
Right: 981.843+/-0.187 χ^2/NDF : 2283154.9/38

In: 569.051+/-0.086 χ^2/NDF : 4824072.7/40

Out: 579.781+/-0.085 χ^2/NDF : 6484052.8/45

All: 574.522+/-0.061 χ^2/NDF : 11315973.5/86

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 348.275+/-383.946 χ^2/NDF : 24.7/17

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -695.200+/-366.276 χ^2/NDF : 10.6/20

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

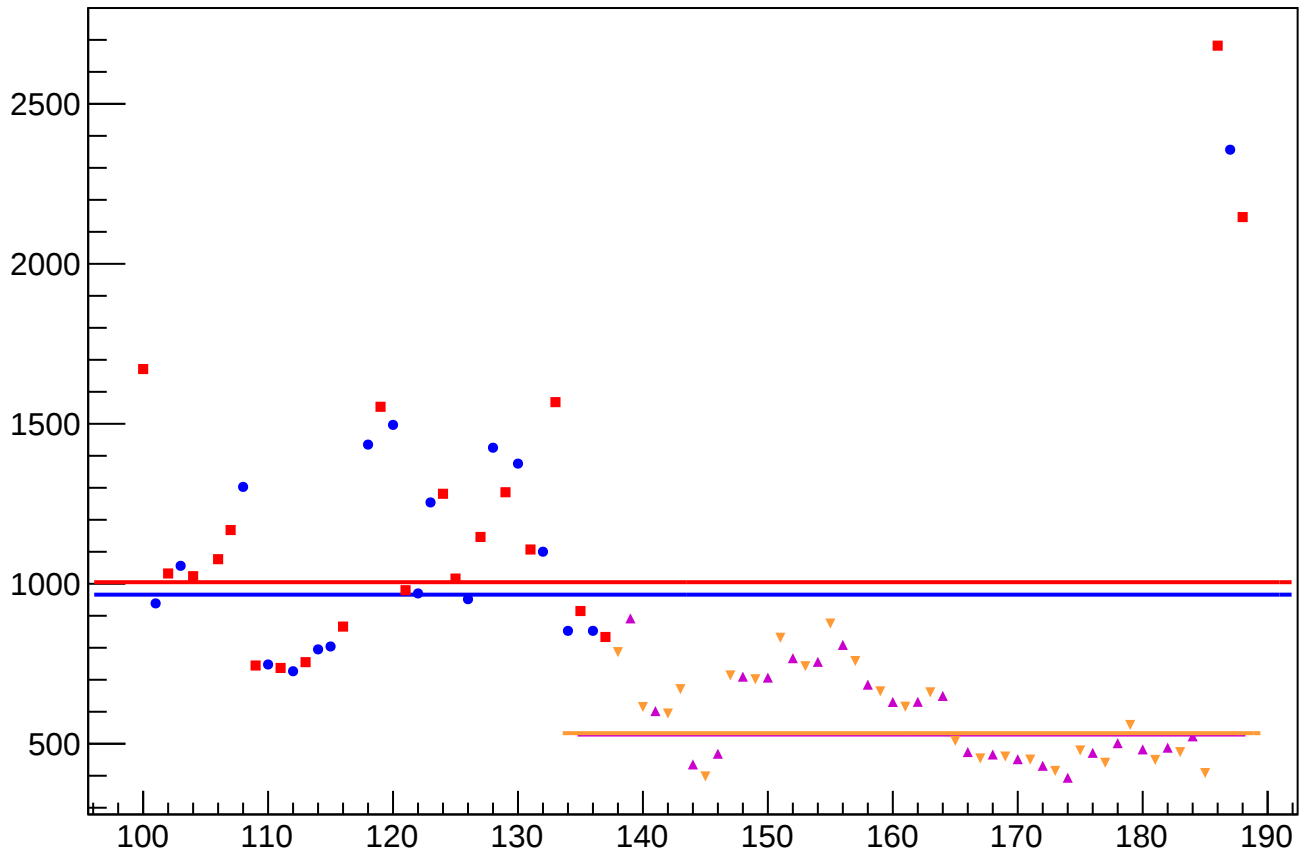
Right: -198.025+/-265.023 χ^2/NDF : 39.1/38

In: 60.535+/-123.241 χ^2/NDF : 53.7/40

Out: 505.067+/-120.801 χ^2/NDF : 83.7/45

All: 287.244+/-86.269 χ^2/NDF : 144.1/86

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 965.989 $\pm$ 0.271 χ^2 /NDF: 757212.9/17

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF: 1951536.4/24

Right Out: 1004.940 $\pm$ 0.259 χ^2 /NDF: 1517916.0/20

Left In: 528.694 $\pm$ 0.092 χ^2 /NDF: 1688511.2/22

Left: 530.914 $\pm$ 0.065 χ^2 /NDF: 3641192.3/47

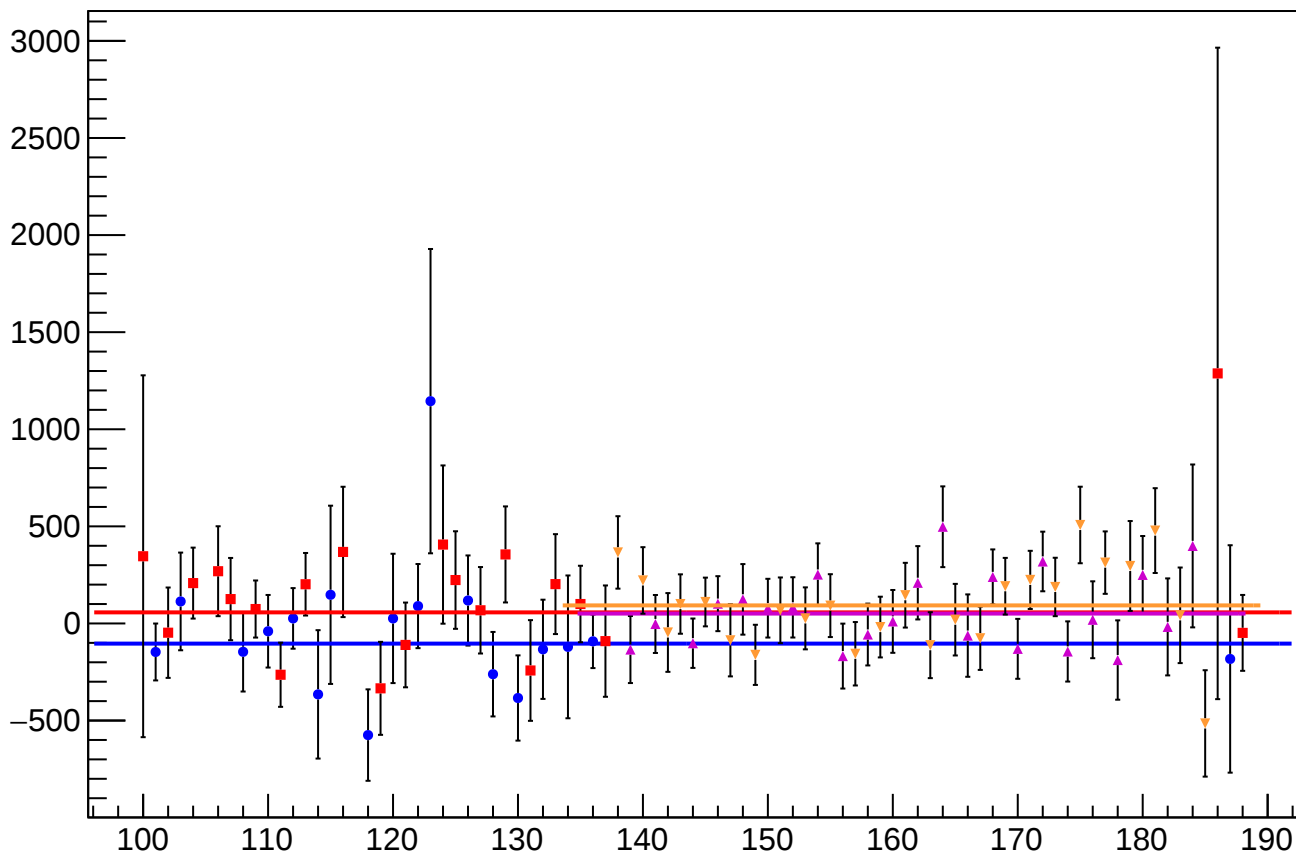
Right: 986.381 $\pm$ 0.187 χ^2 /NDF: 2285905.0/38

In: 573.749 $\pm$ 0.087 χ^2 /NDF: 4772834.7/40

Out: 584.389 $\pm$ 0.085 χ^2 /NDF: 6427889.2/45

All: 579.175 $\pm$ 0.061 χ^2 /NDF: 11208325.6/86

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -103.830 $\pm$ 52.806 χ^2 /NDF: 13.2/17

Left Out: 92.994 $\pm$ 34.054 χ^2 /NDF: 29.4/24

Right Out: 57.045 $\pm$ 49.255 χ^2 /NDF: 16.1/20

Left In: 50.896 $\pm$ 35.280 χ^2 /NDF: 23.5/22

Left: 72.689 $\pm$ 24.502 χ^2 /NDF: 53.6/47

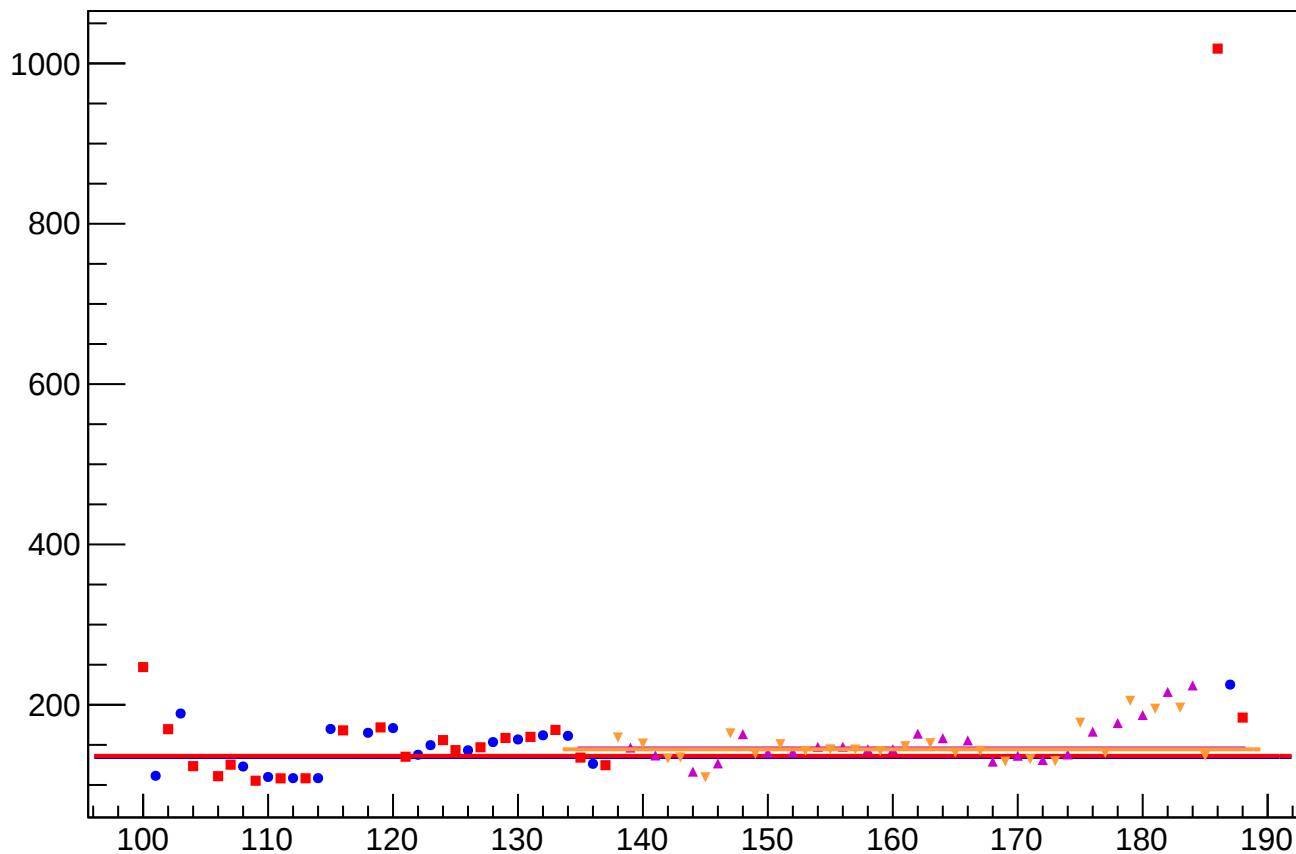
Right: -17.802 $\pm$ 36.019 χ^2 /NDF: 34.2/38

In: 3.146 $\pm$ 29.335 χ^2 /NDF: 42.6/40

Out: 81.368 $\pm$ 28.011 χ^2 /NDF: 45.9/45

All: 44.062 $\pm$ 20.259 χ^2 /NDF: 92.2/86

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 134.863 $\pm$ 0.037 χ^2 /NDF: 450455.3/17

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 136.294 $\pm$ 0.035 χ^2 /NDF: 1128723.6/20

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

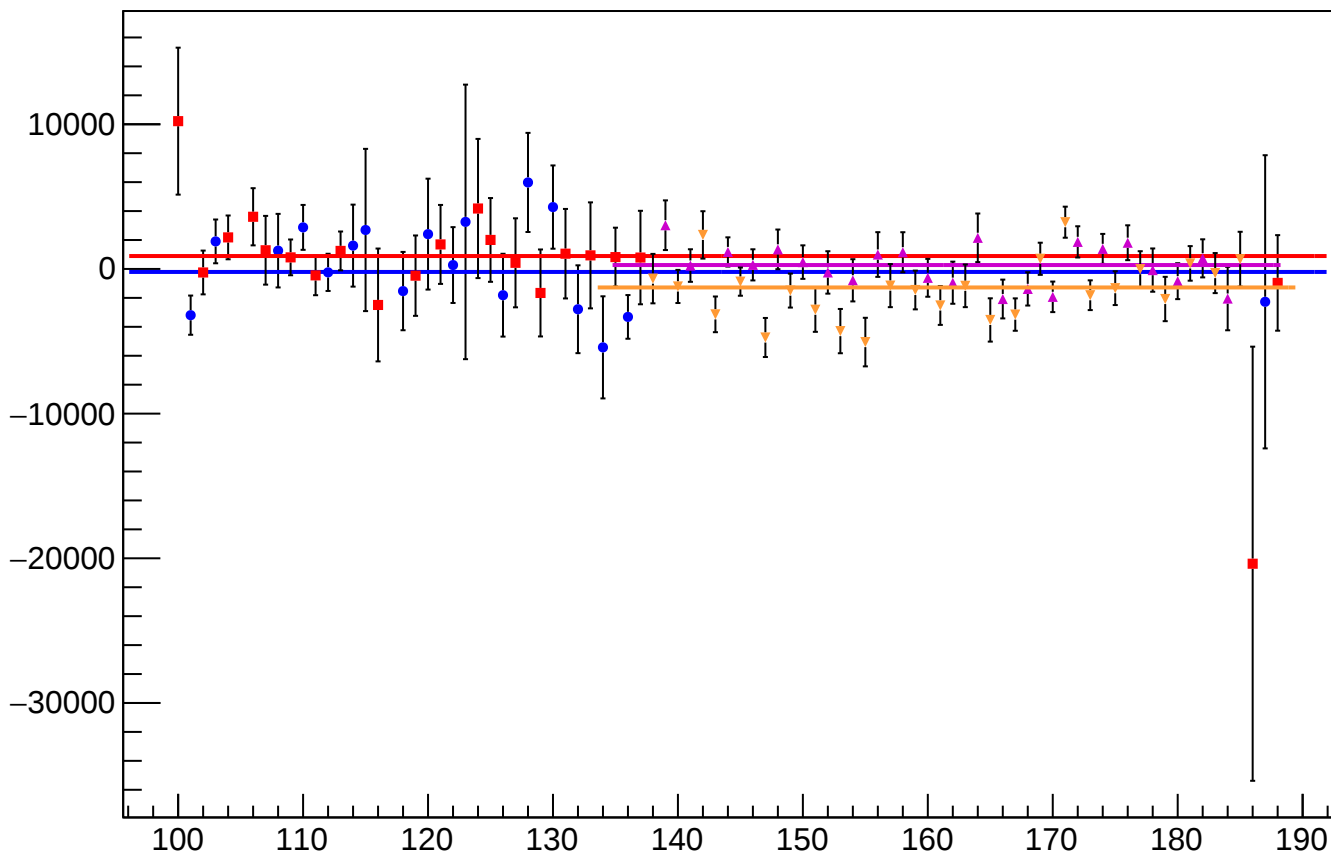
Right: 135.628 $\pm$ 0.025 χ^2 /NDF: 1579964.4/38

In: 142.241 $\pm$ 0.021 χ^2 /NDF: 1150461.8/40

Out: 141.829 $\pm$ 0.020 χ^2 /NDF: 1836546.7/45

All: 142.026 $\pm$ 0.014 χ^2 /NDF: 2987214.8/86

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -207.279 ± 524.185 χ^2/NDF : 25.8/17

Left Out: -1279.328 ± 259.299 χ^2/NDF : 55.9/24

Right Out: 892.384 ± 476.295 χ^2/NDF : 12.4/20

Left In: 269.952 ± 266.245 χ^2/NDF : 24.3/22

Left: -525.161 ± 185.759 χ^2/NDF : 97.6/47

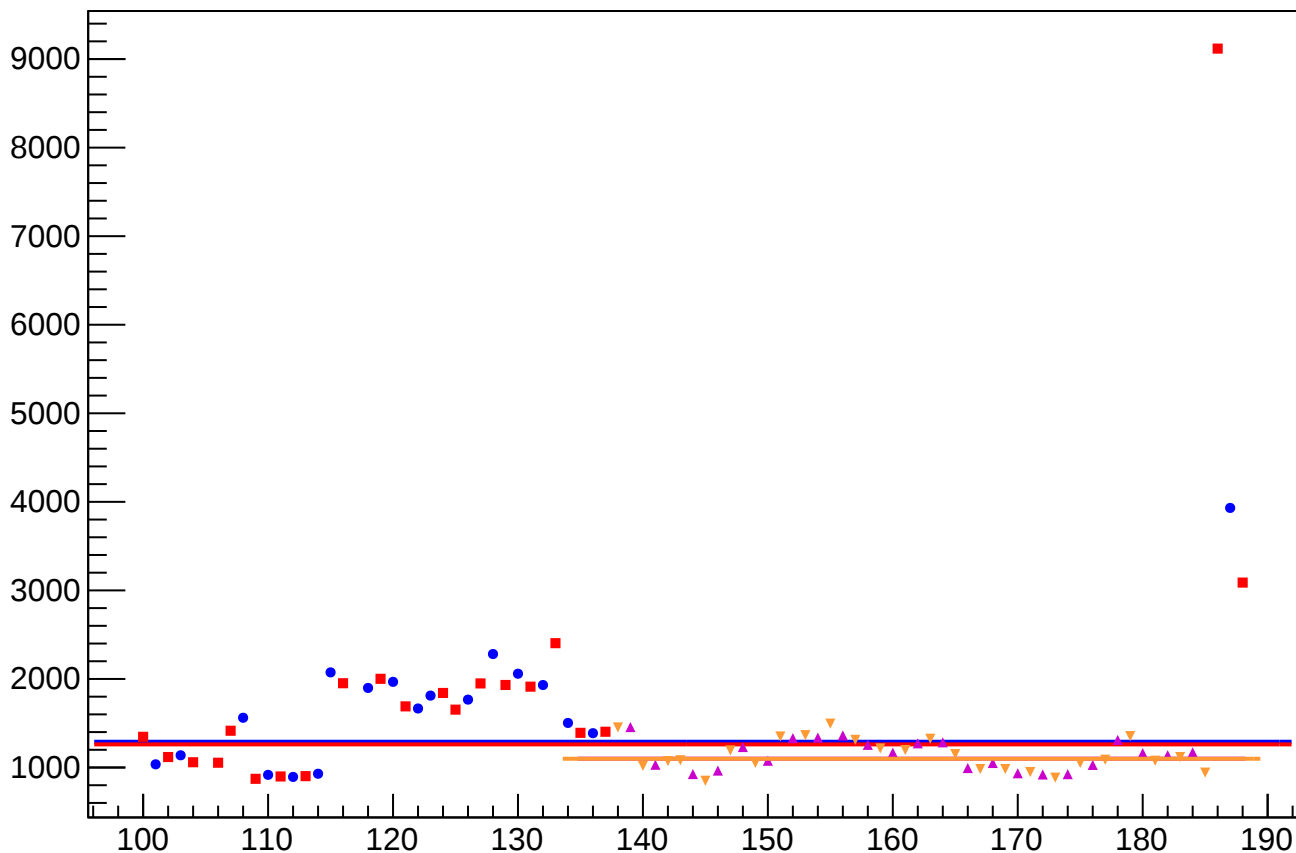
Right: 395.070 ± 352.509 χ^2/NDF : 40.6/38

In: 172.083 ± 237.380 χ^2/NDF : 50.8/40

Out: -782.828 ± 227.738 χ^2/NDF : 84.3/45

All: -325.161 ± 164.338 χ^2/NDF : 143.5/86

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1290.968 $\pm$ 0.371 χ^2 /NDF: 1307838.6/17

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1261.115 $\pm$ 0.337 χ^2 /NDF: 2540609.0/20

Left In: 1099.585 $\pm$ 0.188 χ^2 /NDF: 679896.1/22

Left: 1099.238 $\pm$ 0.131 χ^2 /NDF: 1504231.4/47

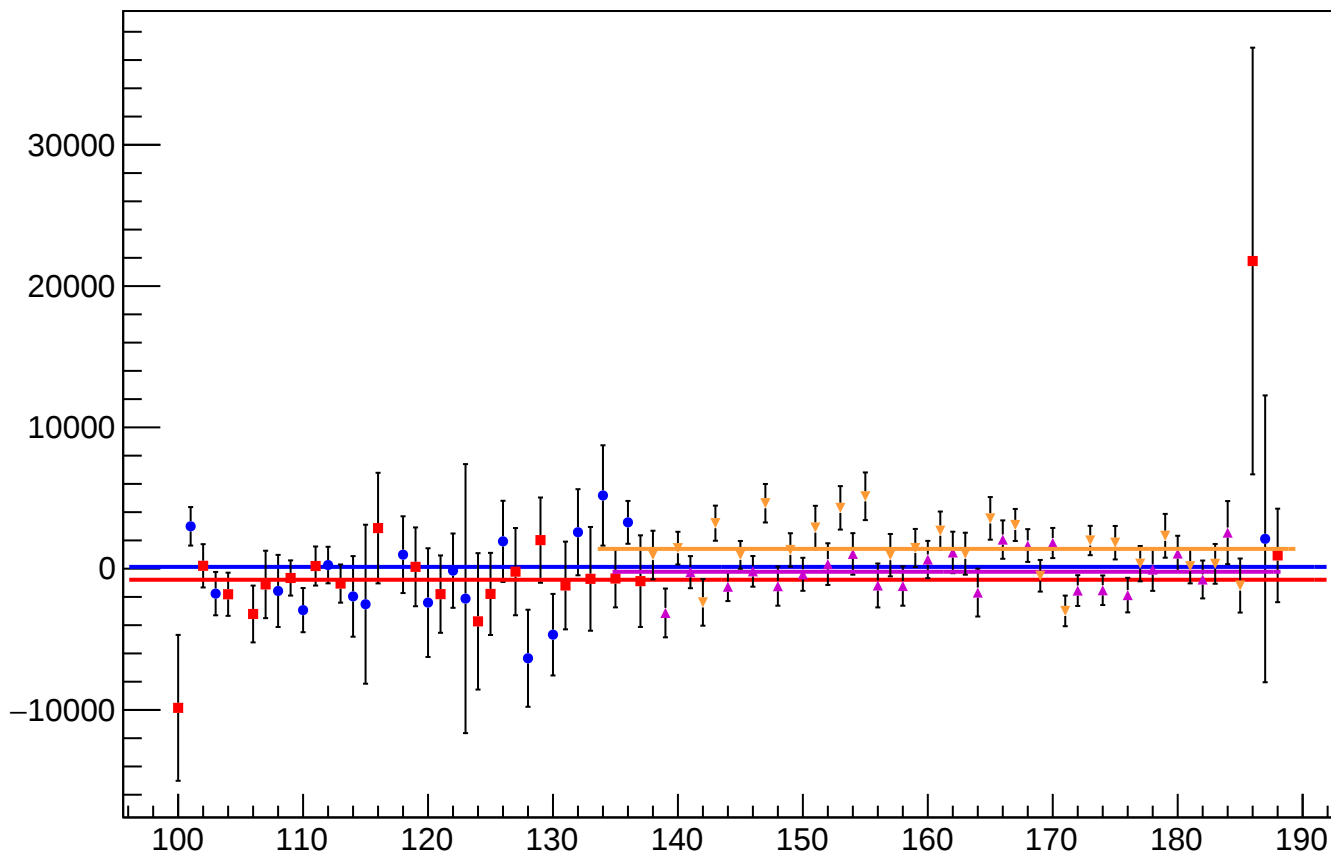
Right: 1274.616 $\pm$ 0.249 χ^2 /NDF: 3852000.7/38

In: 1138.833 $\pm$ 0.168 χ^2 /NDF: 2199663.1/40

Out: 1135.993 $\pm$ 0.161 χ^2 /NDF: 3543867.2/45

All: 1137.354 $\pm$ 0.116 χ^2 /NDF: 5743679.4/86

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 125.591+/-527.591 χ^2/NDF : 25.3/17

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -784.706+/-479.885 χ^2/NDF : 11.0/20

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

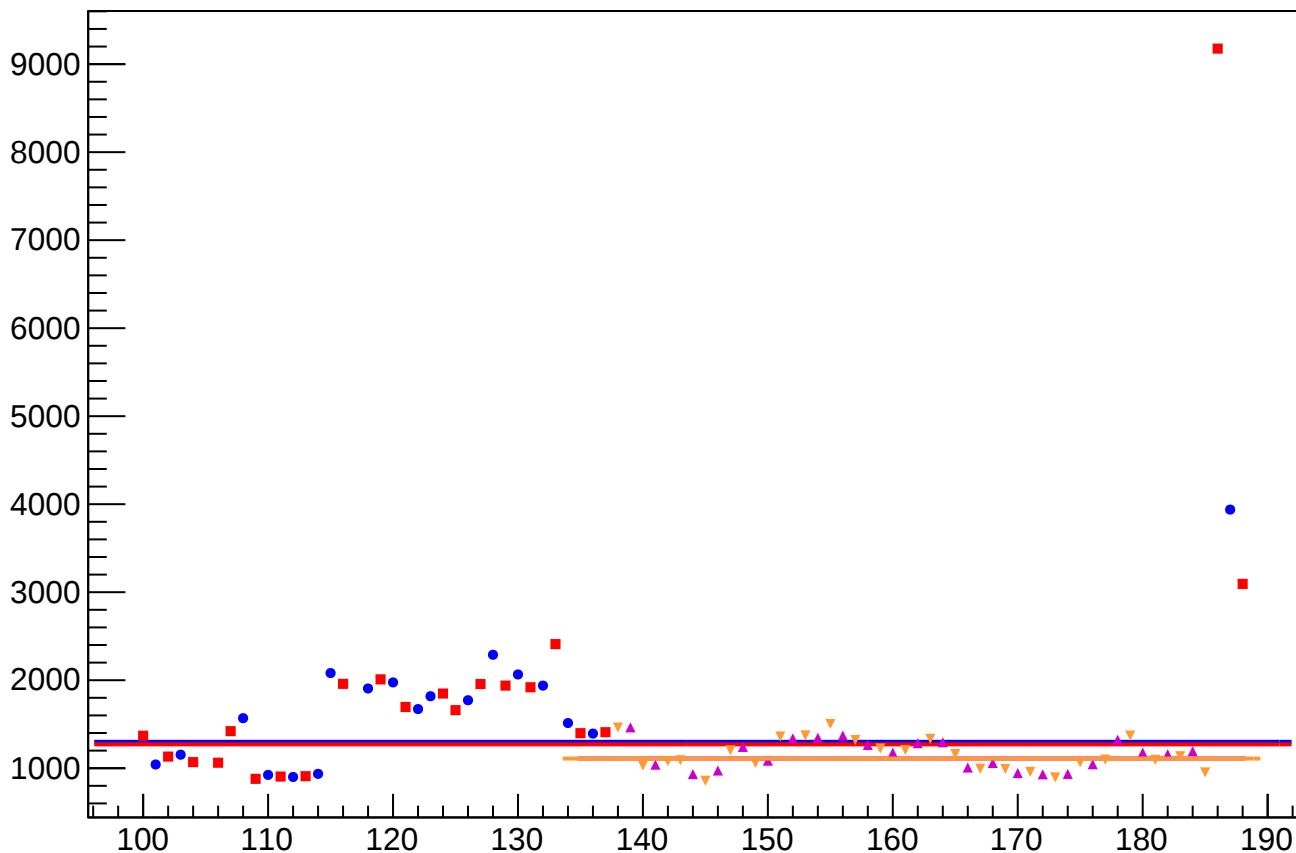
Right: -372.566+/-355.000 χ^2/NDF : 38.0/38

In: -148.276+/-239.543 χ^2/NDF : 50.7/40

Out: 899.258+/-229.827 χ^2/NDF : 79.2/45

All: 397.167+/-165.841 χ^2/NDF : 139.9/86

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1300.139+/-0.373 χ^2/NDF : 1294245.4/17

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1271.101+/-0.339 χ^2/NDF : 2520504.7/20

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

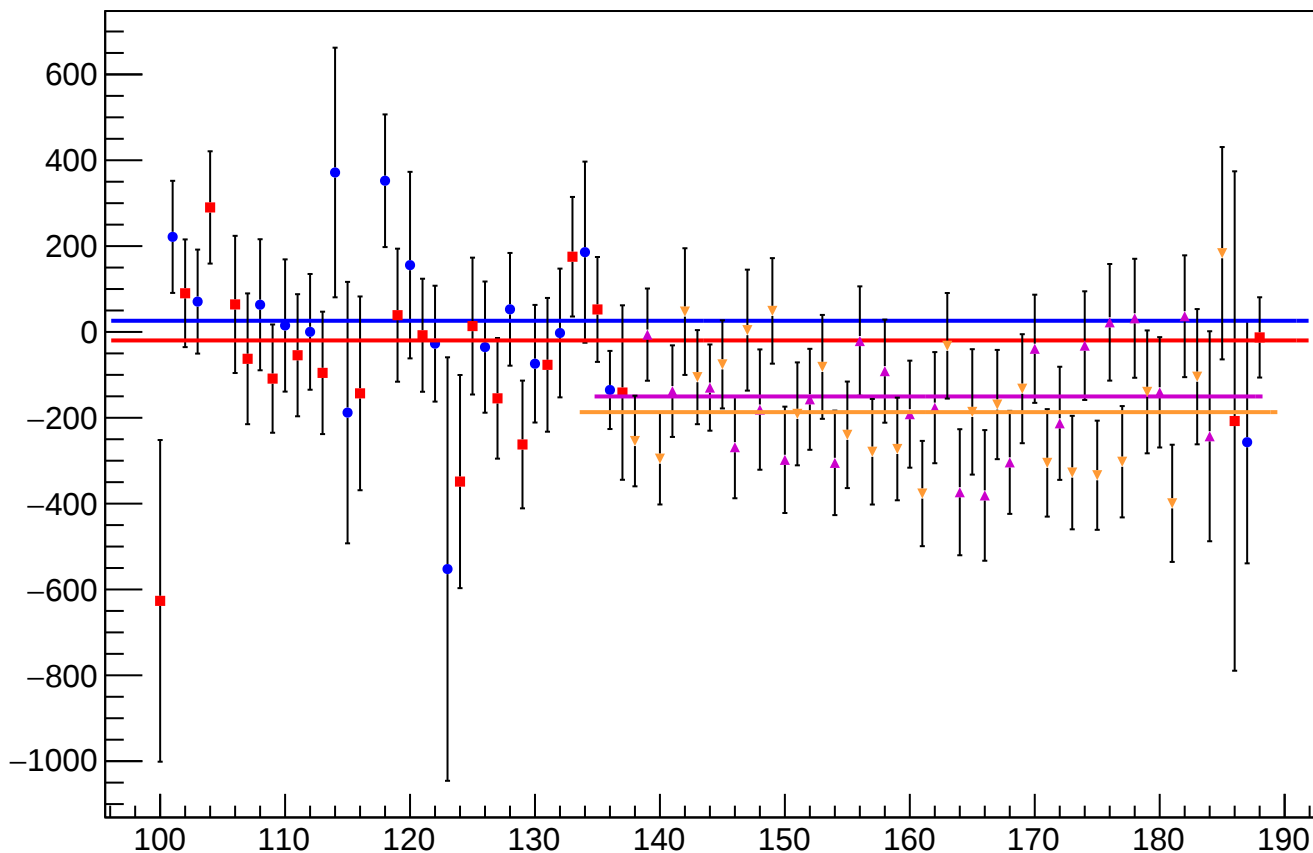
Right: 1284.248+/-0.251 χ^2/NDF : 3818065.7/38

In: 1149.626+/-0.169 χ^2/NDF : 2169215.8/40

Out: 1146.767+/-0.163 χ^2/NDF : 3506895.0/45

All: 1148.138+/-0.117 χ^2/NDF : 5676259.1/86

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 26.028 ± 36.137 $\chi^2/\text{NDF}: 16.2/17$
 Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$
 Right Out: -19.802 ± 32.543 $\chi^2/\text{NDF}: 18.9/20$
 Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$

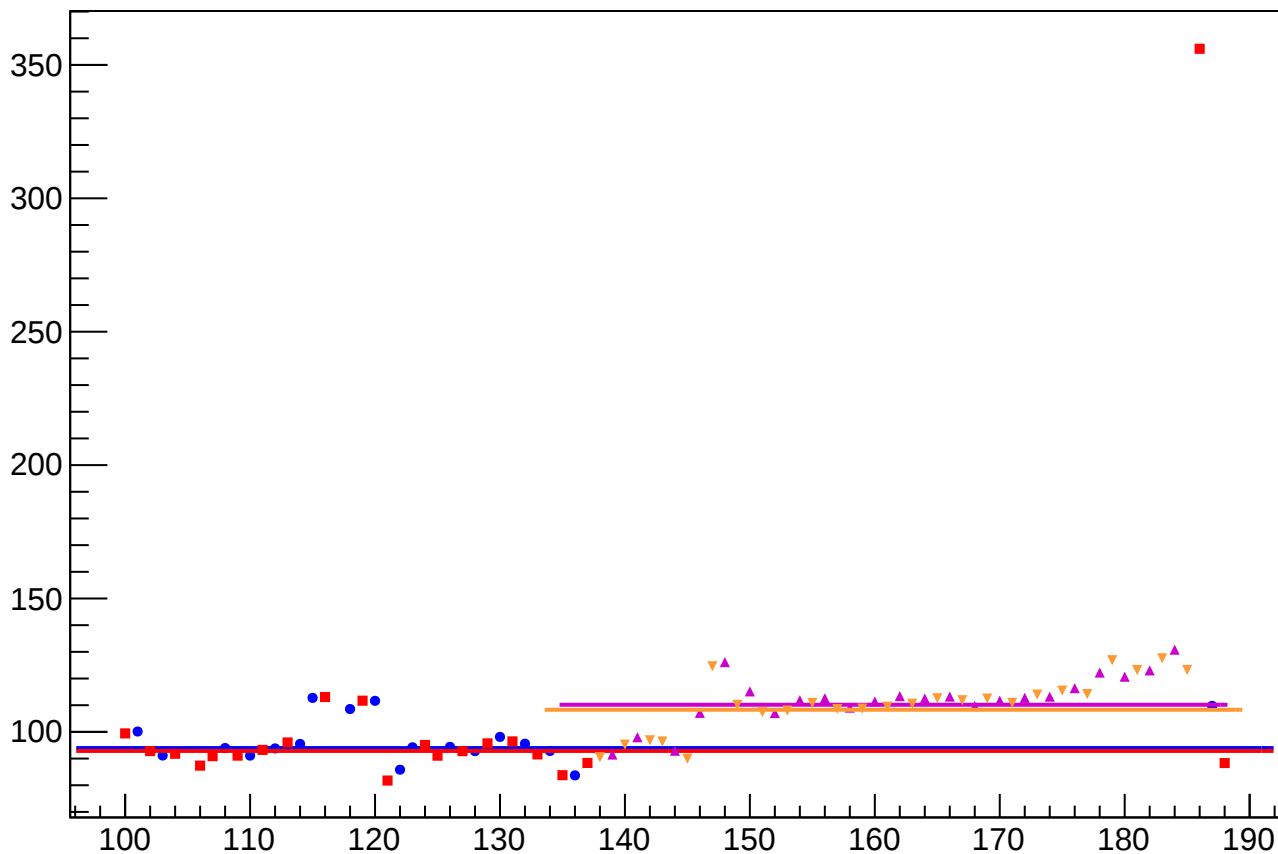
Right: 0.721 ± 24.183 $\chi^2/\text{NDF}: 36.0/38$

In: -88.814 ± 21.341 $\chi^2/\text{NDF}: 52.4/40$

Out: -123.888 ± 19.978 $\chi^2/\text{NDF}: 61.9/45$

All: -107.507 ± 14.585 $\chi^2/\text{NDF}: 115.8/86$

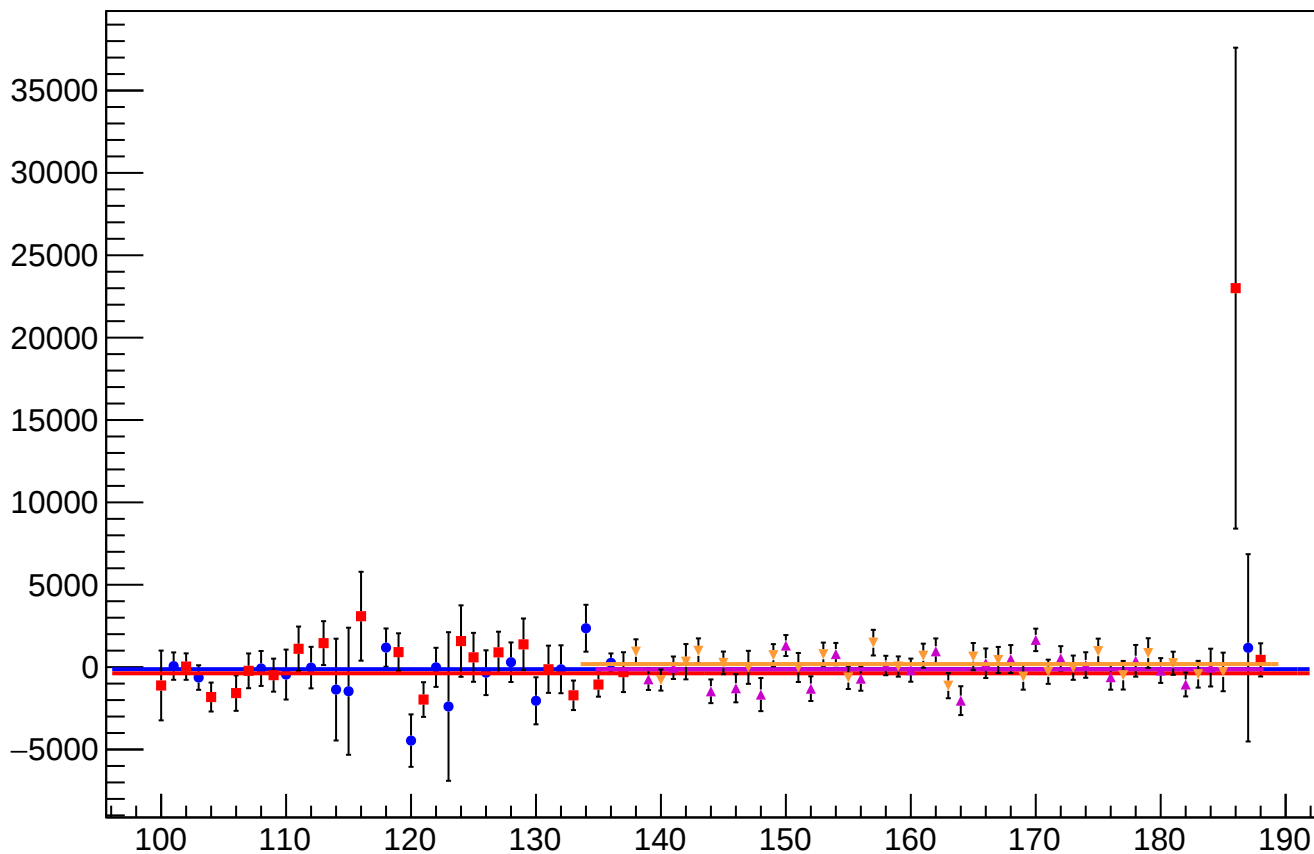
reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 93.934 $\pm$ 0.026 χ^2 /NDF: 86246.0/17
 Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24
 Right Out: 92.858 $\pm$ 0.023 χ^2 /NDF: 493046.9/20
 Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47
 Right: 93.340 $\pm$ 0.017 χ^2 /NDF: 580271.4/38
 In: 104.510 $\pm$ 0.015 χ^2 /NDF: 596241.9/40
 Out: 102.473 $\pm$ 0.014 χ^2 /NDF: 1103887.4/45
 All: 103.424 $\pm$ 0.010 χ^2 /NDF: 1709839.2/86

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -124.920 ± 276.739 $\chi^2/\text{NDF}: 15.3/17$

Left Out: 185.392 ± 153.683 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -375.792 ± 252.307 $\chi^2/\text{NDF}: 22.5/20$

Left In: -128.782 ± 157.155 $\chi^2/\text{NDF}: 36.2/22$

Left: 31.814 ± 109.877 $\chi^2/\text{NDF}: 56.6/47$

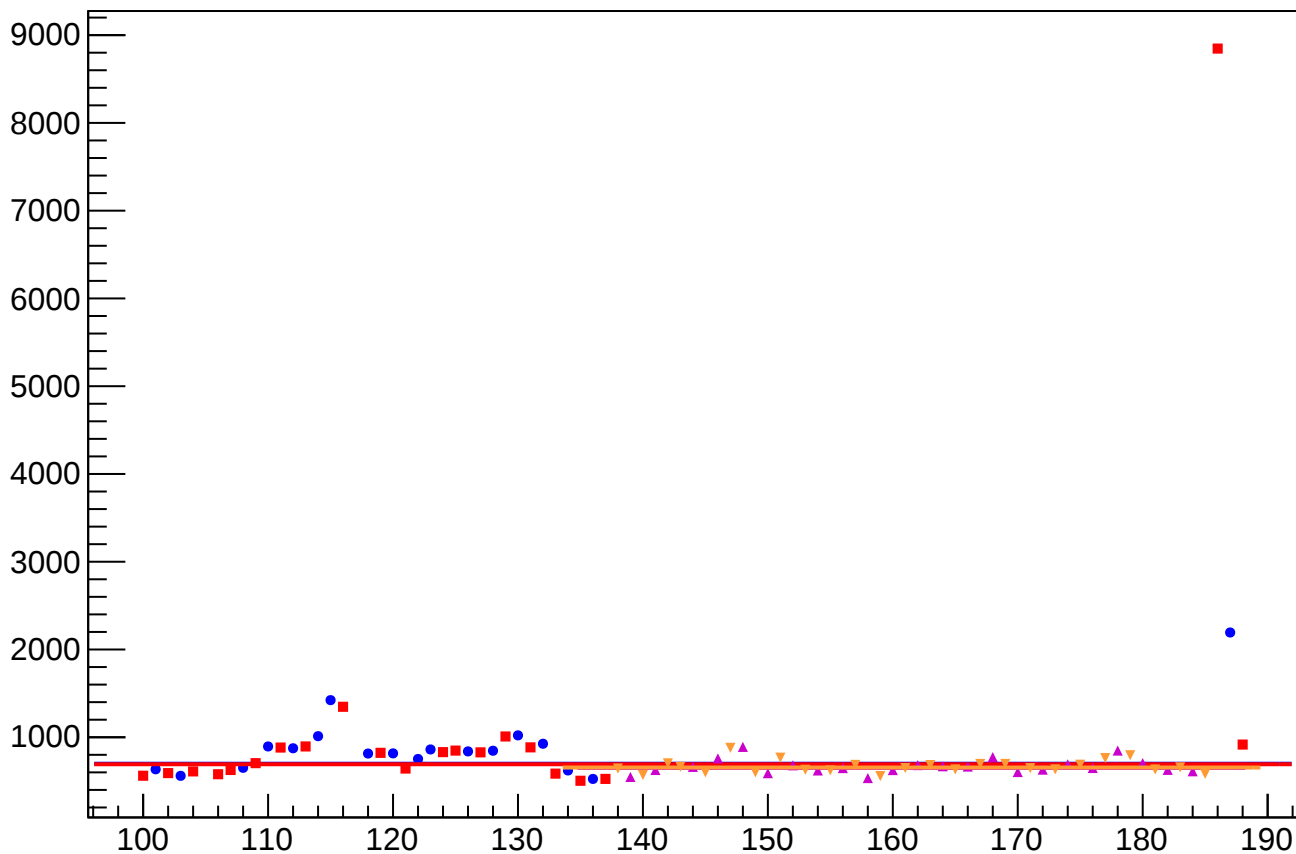
Right: -261.917 ± 186.448 $\chi^2/\text{NDF}: 38.3/38$

In: -127.840 ± 136.657 $\chi^2/\text{NDF}: 51.5/40$

Out: 33.528 ± 131.252 $\chi^2/\text{NDF}: 44.5/45$

All: -43.902 ± 94.662 $\chi^2/\text{NDF}: 96.8/86$

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 698.354+/-0.196 χ^2/NDF : 816533.4/17

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 692.664+/-0.178 χ^2/NDF : 1412480.4/20

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

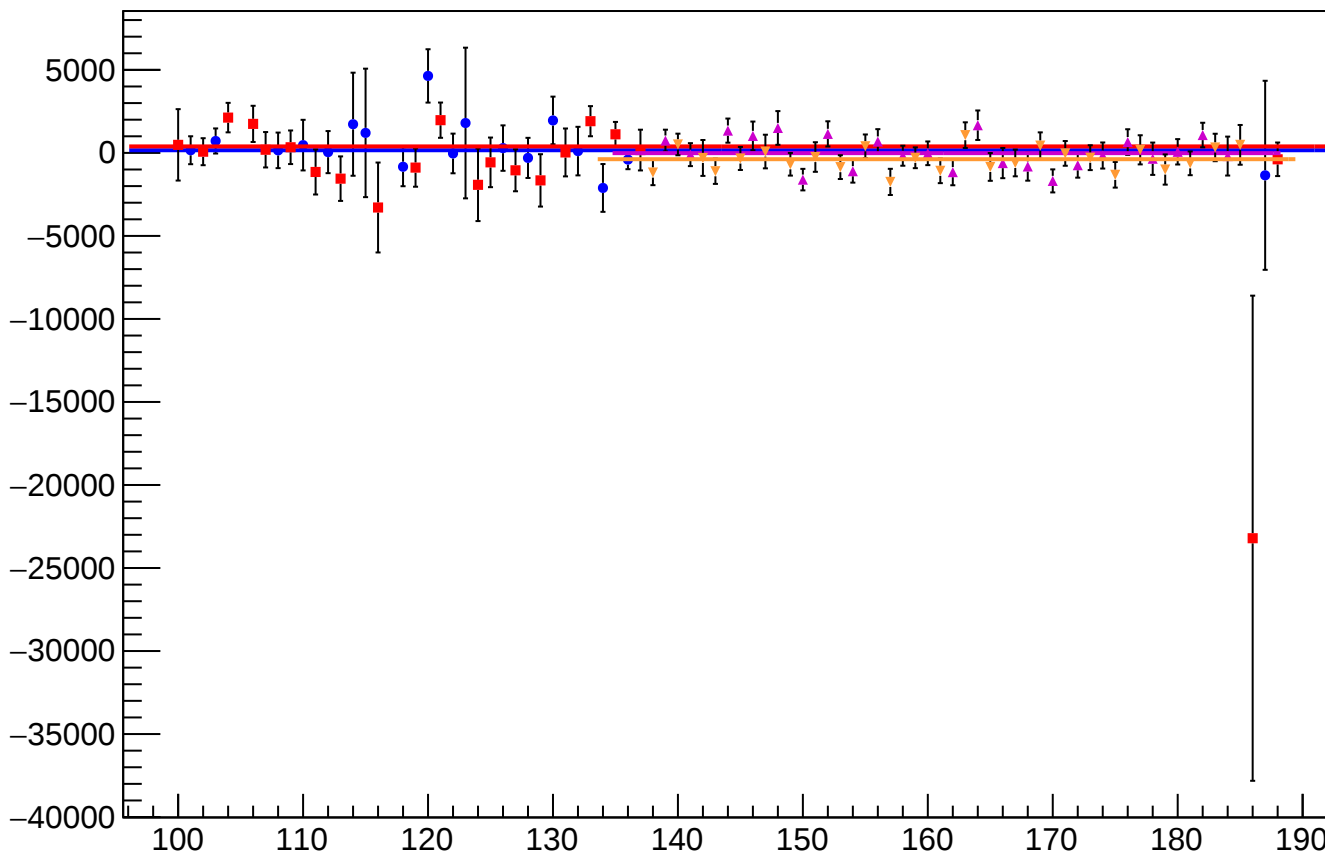
Right: 695.247+/-0.132 χ^2/NDF : 2229475.6/38

In: 662.459+/-0.097 χ^2/NDF : 1327150.0/40

Out: 665.306+/-0.093 χ^2/NDF : 1812069.7/45

All: 663.940+/-0.067 χ^2/NDF : 3139671.1/86

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 159.865+/-279.499 χ^2/NDF : 14.8/17

Left Out: -379.470+/-155.892 χ^2/NDF :18.8/24

Right Out: 390.498+/-254.833 χ^2/NDF : 25.8/20

Left In: -14.768+/-159.513 χ^2/NDF :37.2/22

Left: -201.306+/-111.491 χ^2/NDF : 58.7/47

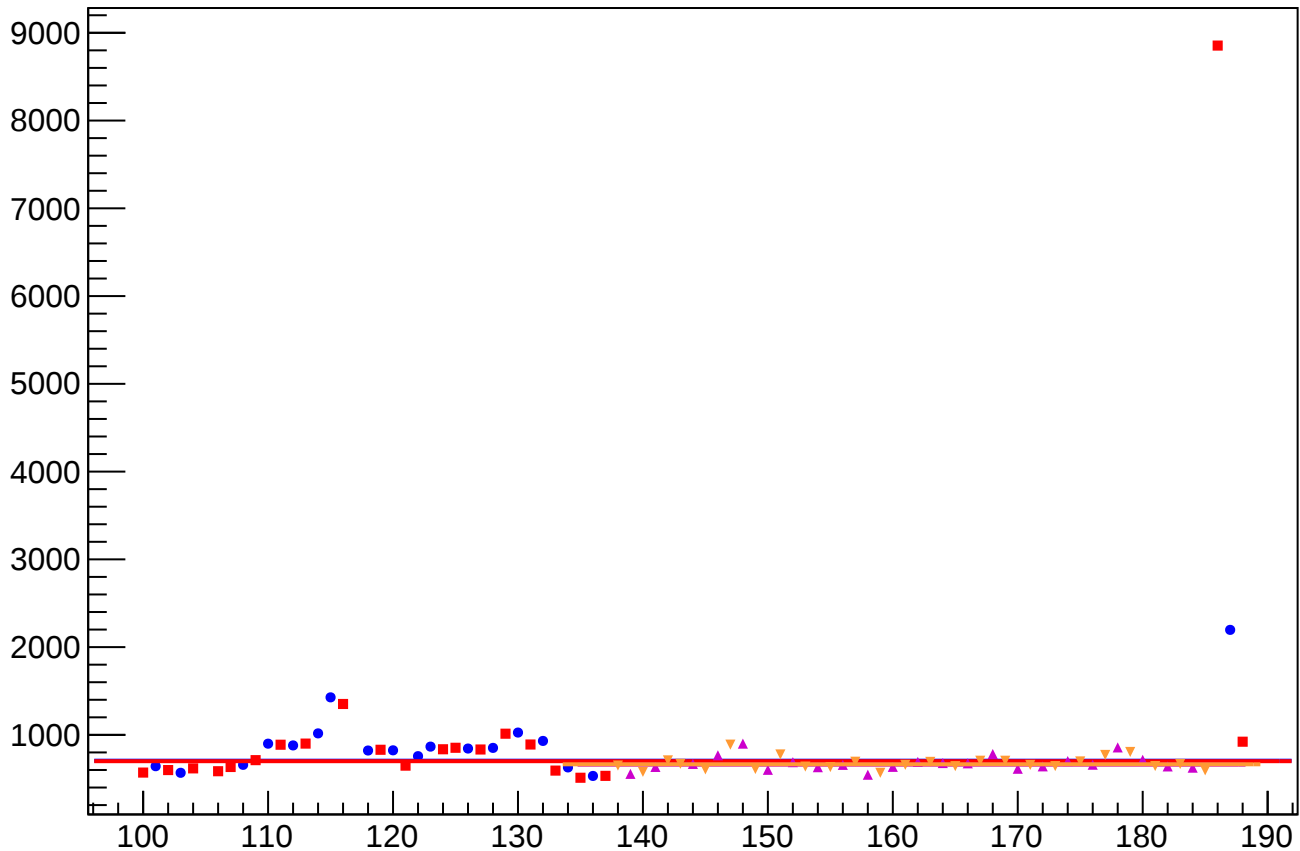
Right: 285.805+/-188.312 χ^2/NDF : 41.0/38

In: 28.138+/-138.539 χ^2/NDF :52.3/40

Out: -169.793+/-132.983 χ^2/NDF :51.3/45

All: -74.877+/-95.937 χ^2/NDF : 104.6/86

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 705.868+/-0.198 χ^2/NDF : 798184.0/17

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 700.235+/-0.180 χ^2/NDF : 1391513.6/20

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

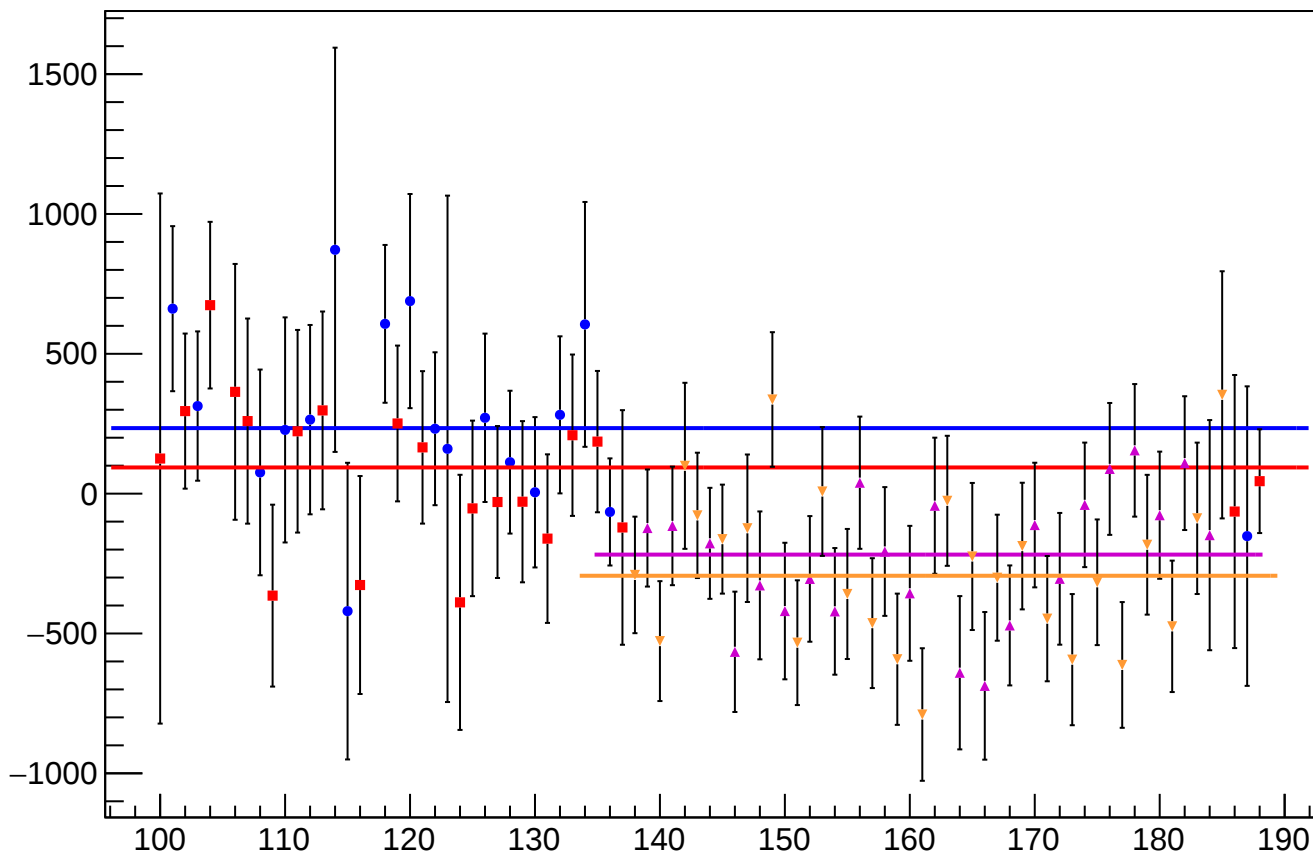
Right: 702.792+/-0.133 χ^2/NDF : 2190141.1/38

In: 671.941+/-0.098 χ^2/NDF : 1286431.5/40

Out: 674.430+/-0.094 χ^2/NDF : 1776751.9/45

All: 673.236+/-0.068 χ^2/NDF : 3063519.4/86

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 234.322 $\pm$ 75.348 χ^2 /NDF: 12.5/17

Left Out: -293.590 $\pm$ 47.203 χ^2 /NDF:30.3/24

Right Out: 93.639 $\pm$ 68.396 χ^2 /NDF: 12.0/20

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

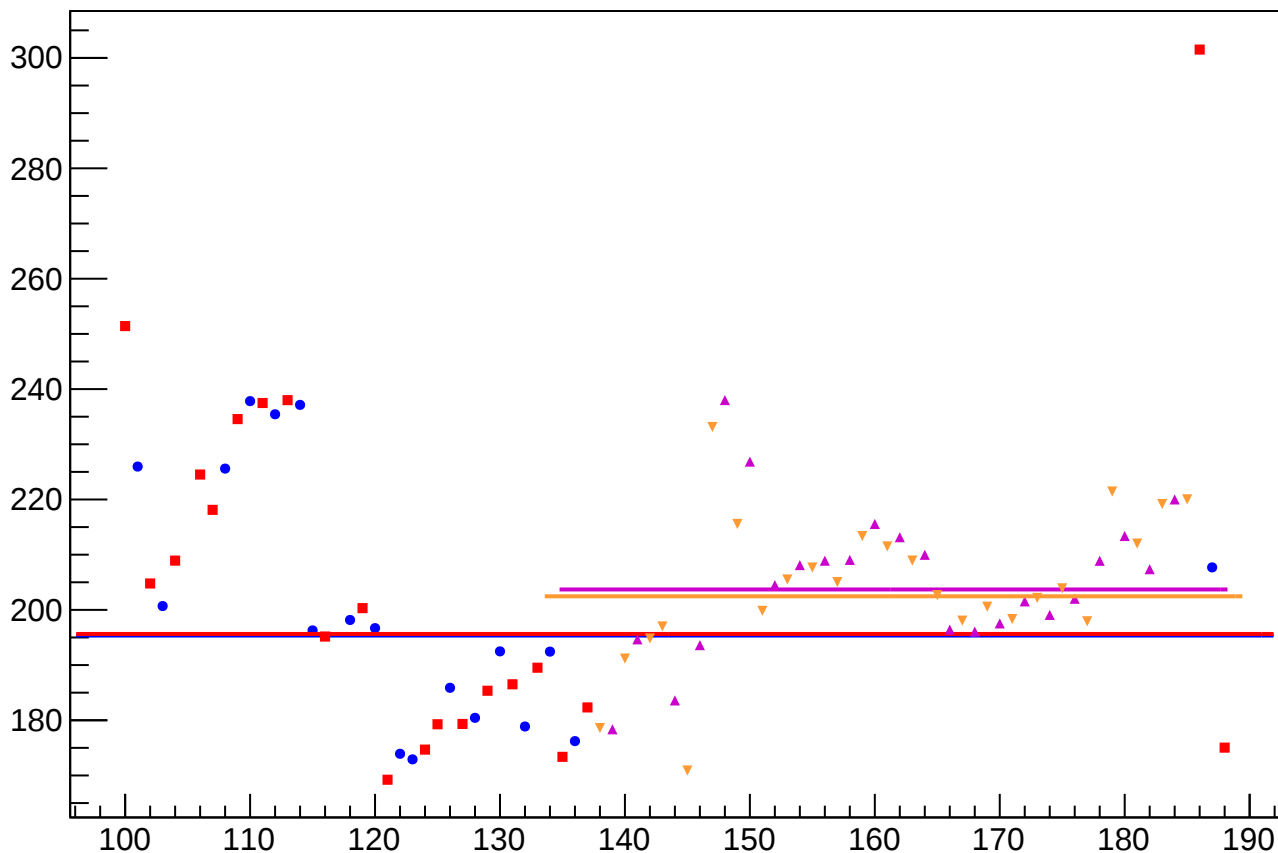
Right: 157.193 $\pm$ 50.643 χ^2 /NDF: 26.5/38

In: -84.237 $\pm$ 40.971 χ^2 /NDF:59.2/40

Out: -168.659 $\pm$ 38.849 χ^2 /NDF:64.1/45

All: -128.691 $\pm$ 28.191 χ^2 /NDF: 125.5/86

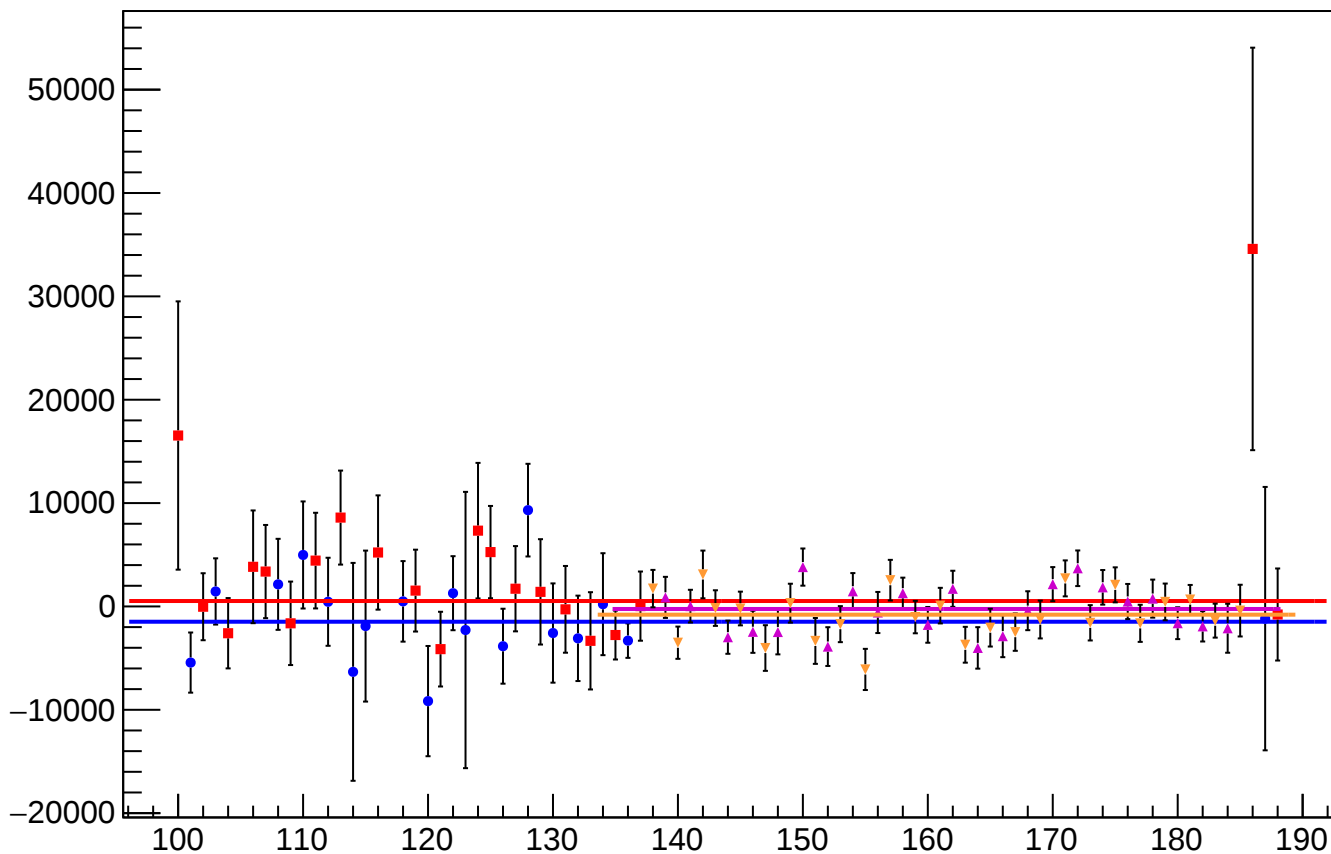
reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 195.354 $\pm$ 0.053 χ^2 /NDF: 143622.4/17
 Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24
 Right Out: 195.635 $\pm$ 0.048 χ^2 /NDF: 290323.8/20
 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: 195.508 $\pm$ 0.036 χ^2 /NDF: 433961.4/38
 In: 201.231 $\pm$ 0.029 χ^2 /NDF:297094.8/40
 Out: 200.257 $\pm$ 0.027 χ^2 /NDF:462389.6/45
 All: 200.718 $\pm$ 0.020 χ^2 /NDF: 760079.9/86

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1479.222 $\pm$ 910.229 χ^2 /NDF: 16.0/17

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF: 35.7/24

Right Out: 524.849 $\pm$ 915.482 χ^2 /NDF: 17.9/20

Left In: -245.102 $\pm$ 369.846 χ^2 /NDF: 35.7/22

Left: -529.902 $\pm$ 257.175 χ^2 /NDF: 72.6/47

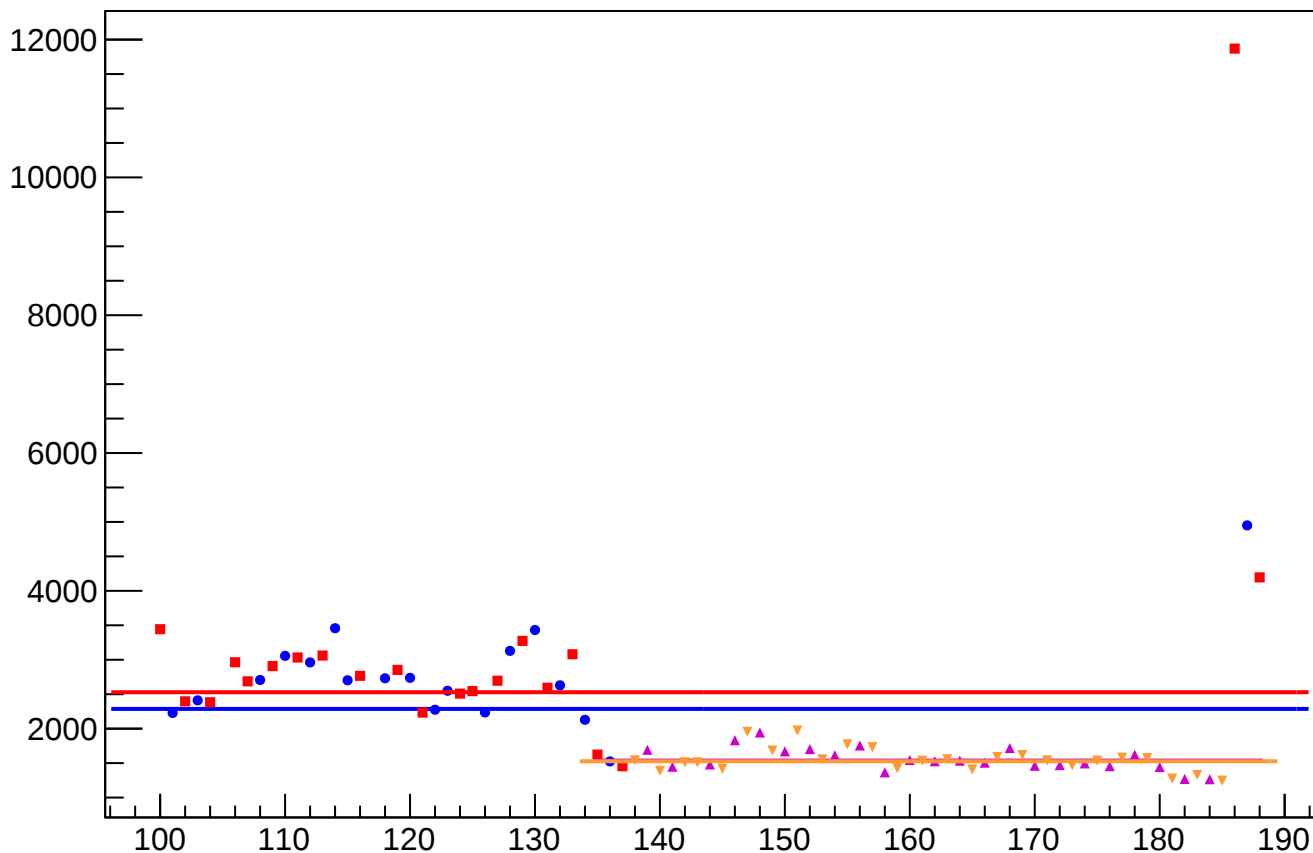
Right: -482.953 $\pm$ 645.478 χ^2 /NDF: 36.3/38

In: -419.981 $\pm$ 342.641 χ^2 /NDF: 53.3/40

Out: -621.390 $\pm$ 333.293 χ^2 /NDF: 55.4/45

All: -523.470 $\pm$ 238.910 χ^2 /NDF: 108.9/86

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2286.611+/-0.644 χ^2/NDF : 894735.6/17

Left Out: 1526.712+/-0.253 χ^2/NDF : 394892.7/24

Right Out: 2528.569+/-0.647 χ^2/NDF : 1443848.7/20

Left In: 1536.538+/-0.262 χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182 χ^2/NDF : 745995.2/47

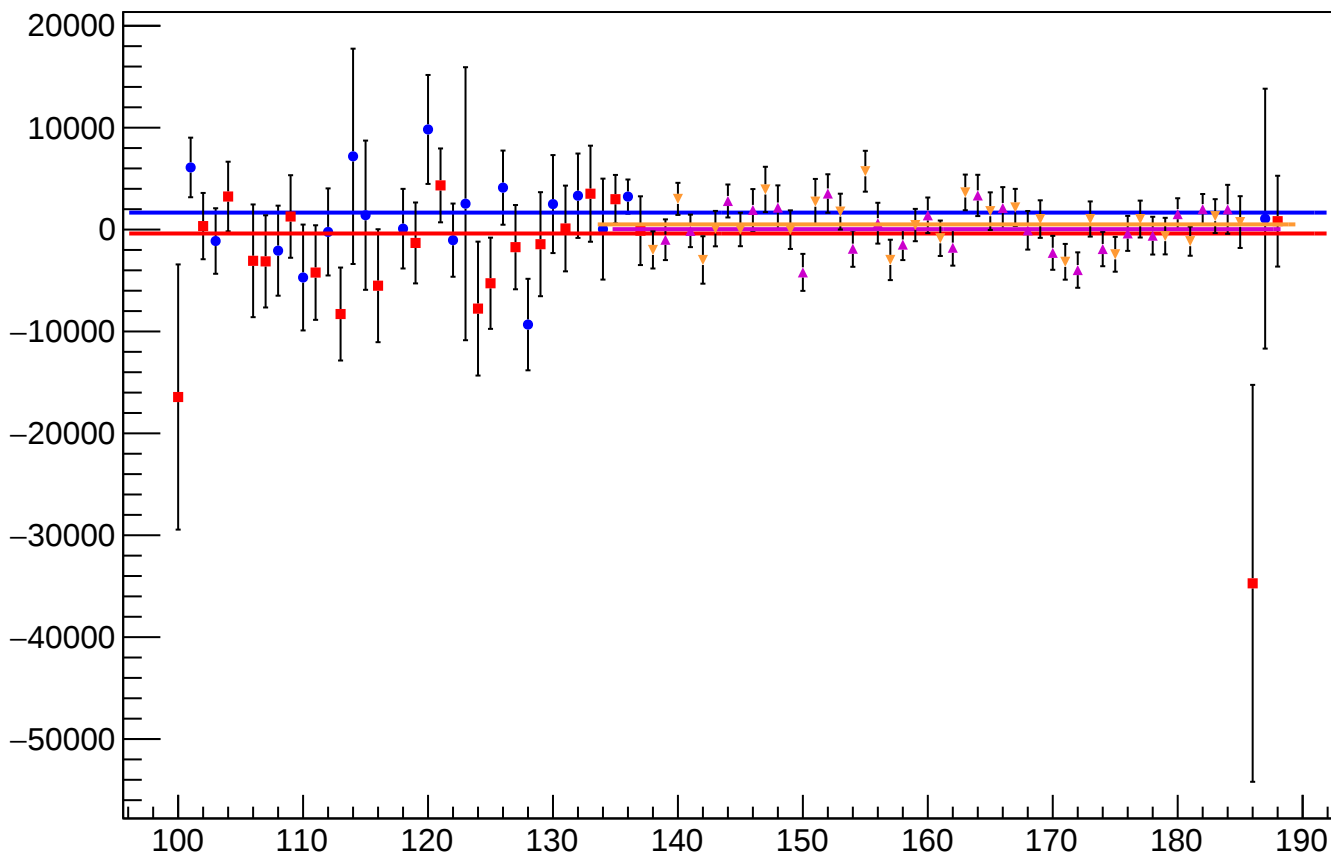
Right: 2406.893+/-0.456 χ^2/NDF : 2408838.4/38

In: 1642.825+/-0.242 χ^2/NDF : 2410773.7/40

Out: 1659.500+/-0.236 χ^2/NDF : 3916479.0/45

All: 1651.393+/-0.169 χ^2/NDF : 6329686.4/86

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1665.563 $\pm$ 914.236 χ^2 /NDF: 16.4/17

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF: 35.4/24

Right Out: -384.880 $\pm$ 919.088 χ^2 /NDF: 18.2/20

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

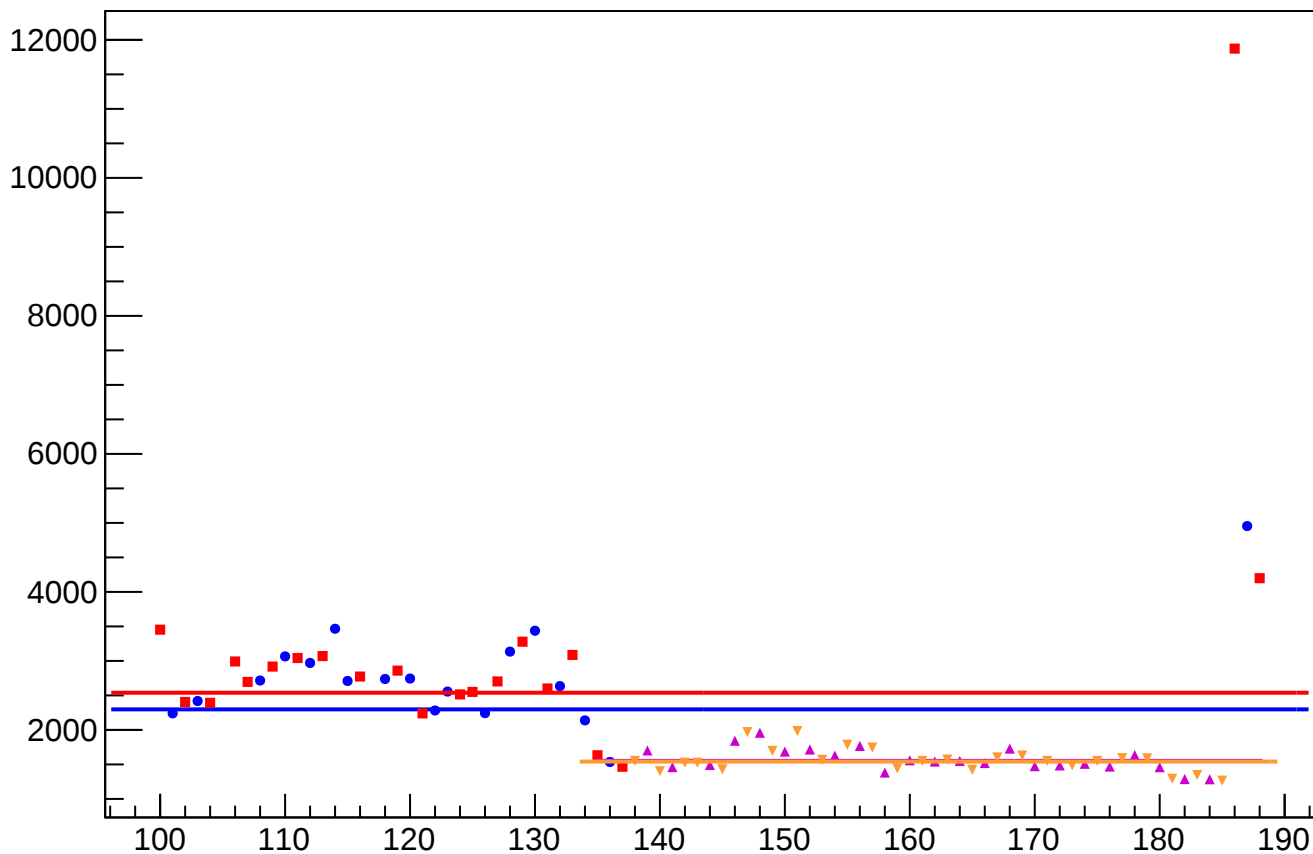
Right: 645.768 $\pm$ 648.171 χ^2 /NDF: 37.2/38

In: 272.319 $\pm$ 345.569 χ^2 /NDF: 52.7/40

Out: 388.546 $\pm$ 336.149 χ^2 /NDF: 54.4/45

All: 332.038 $\pm$ 240.955 χ^2 /NDF: 107.2/86

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2297.909 ± 0.646 $\chi^2/\text{NDF}: 882460.0/17$

Left Out: 1541.258 ± 0.255 $\chi^2/\text{NDF}: 382045.4/24$

Right Out: 2539.080 ± 0.650 $\chi^2/\text{NDF}: 1432222.9/20$

Left In: 1551.063 ± 0.264 $\chi^2/\text{NDF}: 338898.9/22$

Left: 1546.000 ± 0.184 $\chi^2/\text{NDF}: 721657.1/47$

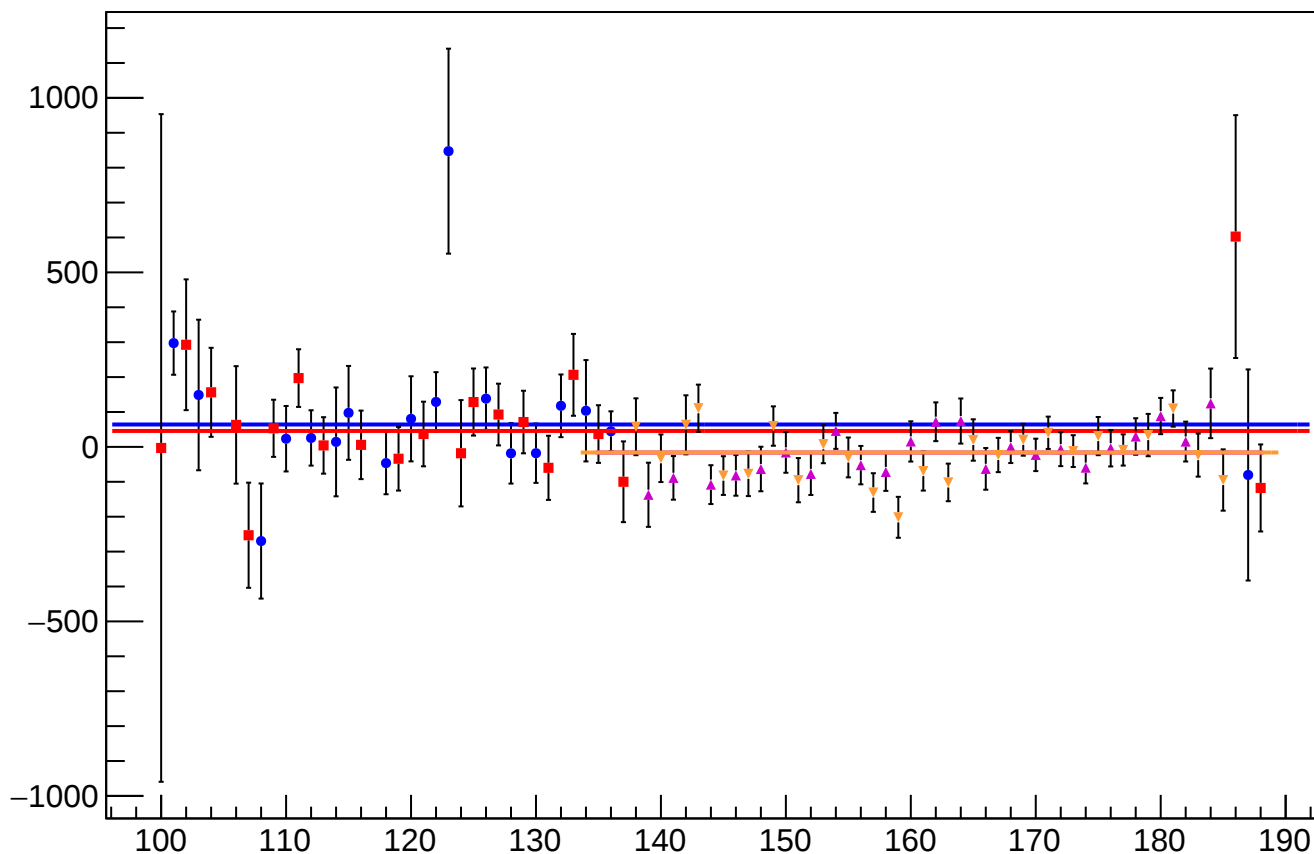
Right: 2417.856 ± 0.458 $\chi^2/\text{NDF}: 2383902.3/38$

In: 1657.768 ± 0.244 $\chi^2/\text{NDF}: 2365342.4/40$

Out: 1674.734 ± 0.238 $\chi^2/\text{NDF}: 3856271.1/45$

All: 1666.486 ± 0.170 $\chi^2/\text{NDF}: 6224090.5/86$

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 64.187 $\pm$ 23.720 χ^2 /NDF: 24.0/17

Left Out: -16.049 $\pm$ 11.340 χ^2 /NDF:39.7/24

Right Out: 45.701 $\pm$ 23.261 χ^2 /NDF: 21.4/20

Left In: -16.162 $\pm$ 11.649 χ^2 /NDF:25.2/22

Left: -16.104 $\pm$ 8.126 χ^2 /NDF: 64.9/47

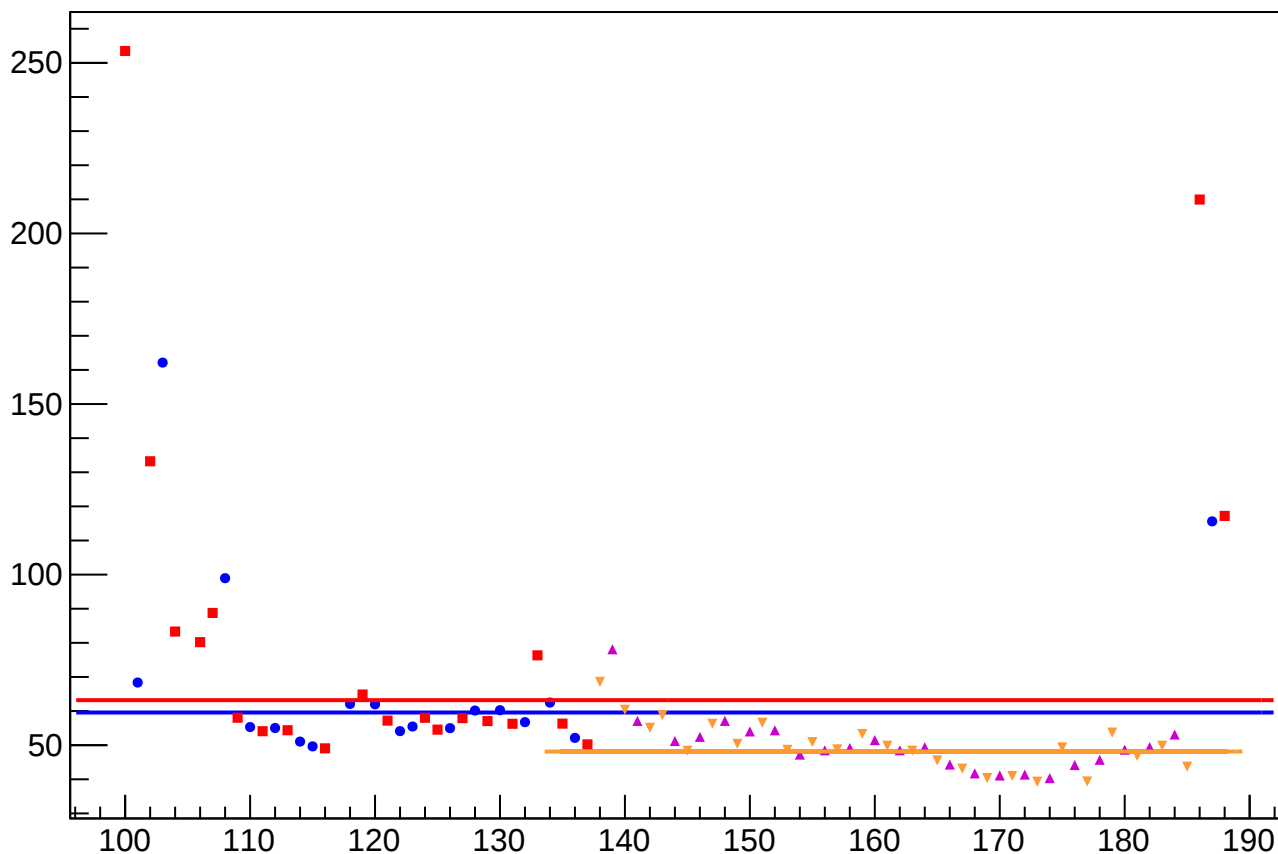
Right: 54.763 $\pm$ 16.608 χ^2 /NDF: 45.7/38

In: -0.548 $\pm$ 10.457 χ^2 /NDF:58.5/40

Out: -4.191 $\pm$ 10.193 χ^2 /NDF:66.7/45

All: -2.416 $\pm$ 7.299 χ^2 /NDF: 125.3/86

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 59.582 ± 0.017 $\chi^2/\text{NDF}: 734359.5/17$

Left Out: 48.141 ± 0.008 $\chi^2/\text{NDF}: 655250.3/24$

Right Out: 63.197 ± 0.016 $\chi^2/\text{NDF}: 1433970.9/20$

Left In: 48.139 ± 0.008 $\chi^2/\text{NDF}: 575025.5/22$

Left: 48.140 ± 0.006 $\chi^2/\text{NDF}: 1230275.9/47$

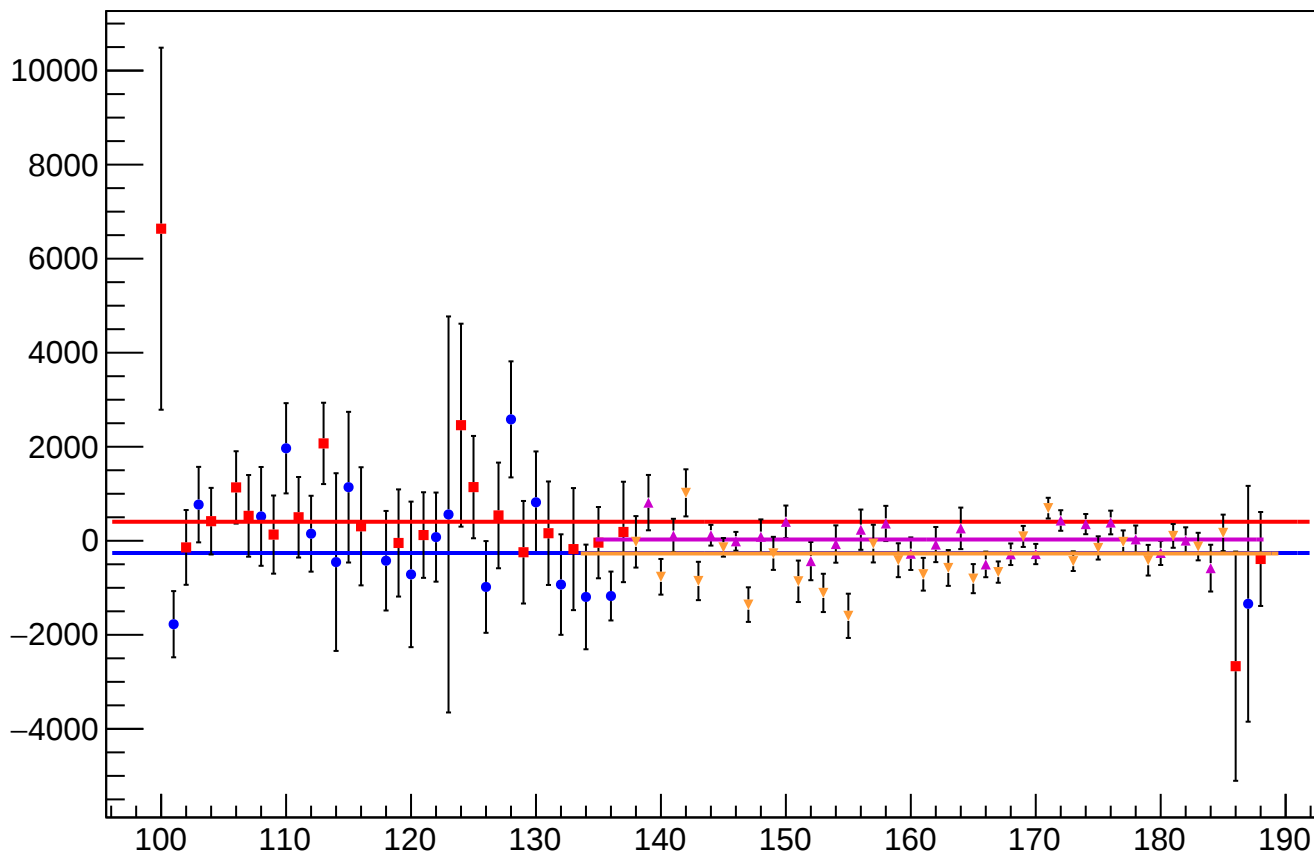
Right: 61.425 ± 0.012 $\chi^2/\text{NDF}: 2192002.2/38$

In: 50.363 ± 0.007 $\chi^2/\text{NDF}: 1684394.0/40$

Out: 51.032 ± 0.007 $\chi^2/\text{NDF}: 2766240.0/45$

All: 50.706 ± 0.005 $\chi^2/\text{NDF}: 4454832.5/86$

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -259.738 $\pm$ 233.445 χ^2 /NDF: 24.7/17

Left Out: -270.214 $\pm$ 60.177 χ^2 /NDF:70.1/24

Right Out: 404.662 $\pm$ 216.599 χ^2 /NDF: 12.7/20

Left In: 27.271 $\pm$ 60.430 χ^2 /NDF:25.1/22

Left: -122.095 $\pm$ 42.641 χ^2 /NDF: 107.3/47

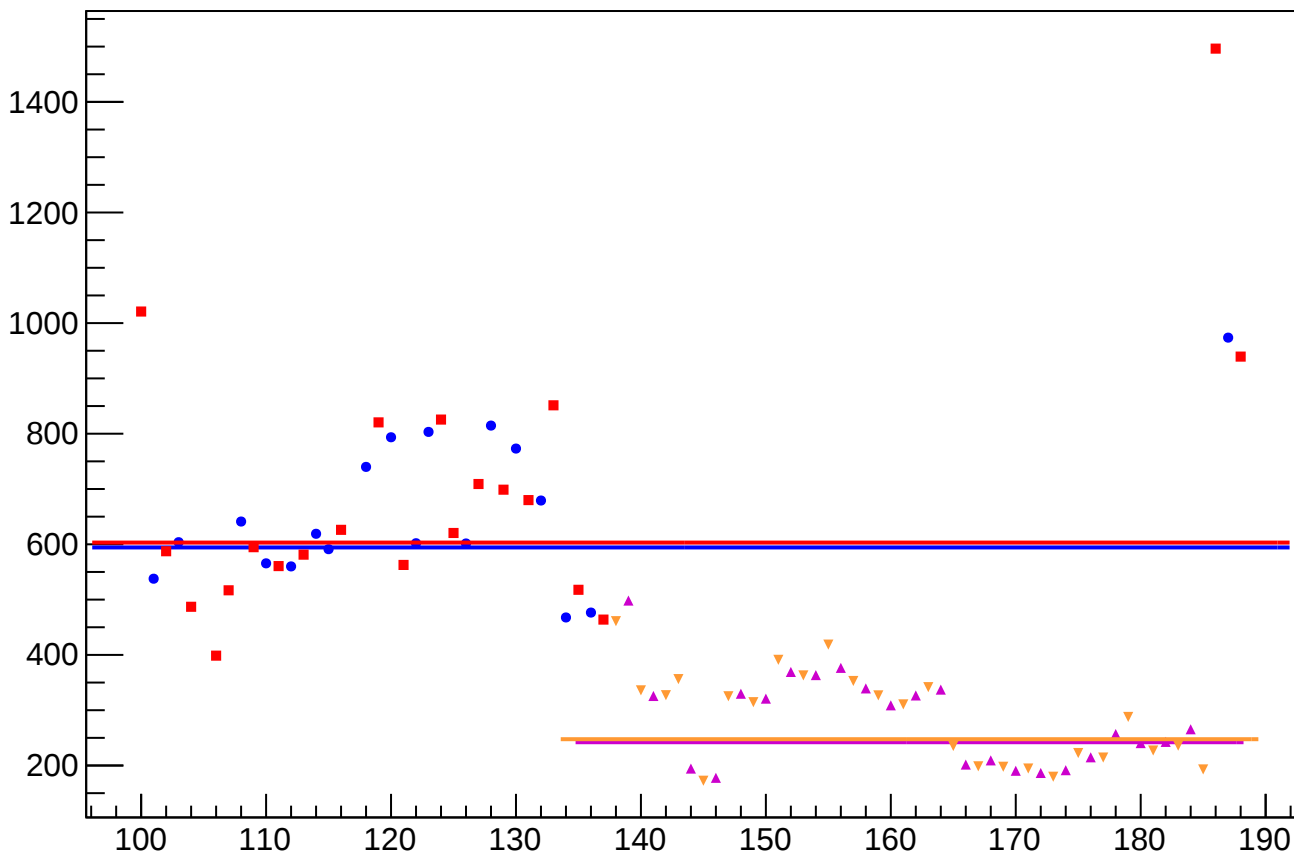
Right: 97.297 $\pm$ 158.780 χ^2 /NDF: 41.8/38

In: 9.247 $\pm$ 58.502 χ^2 /NDF:51.2/40

Out: -221.853 $\pm$ 57.981 χ^2 /NDF:91.8/45

All: -107.336 $\pm$ 41.182 χ^2 /NDF: 150.9/86

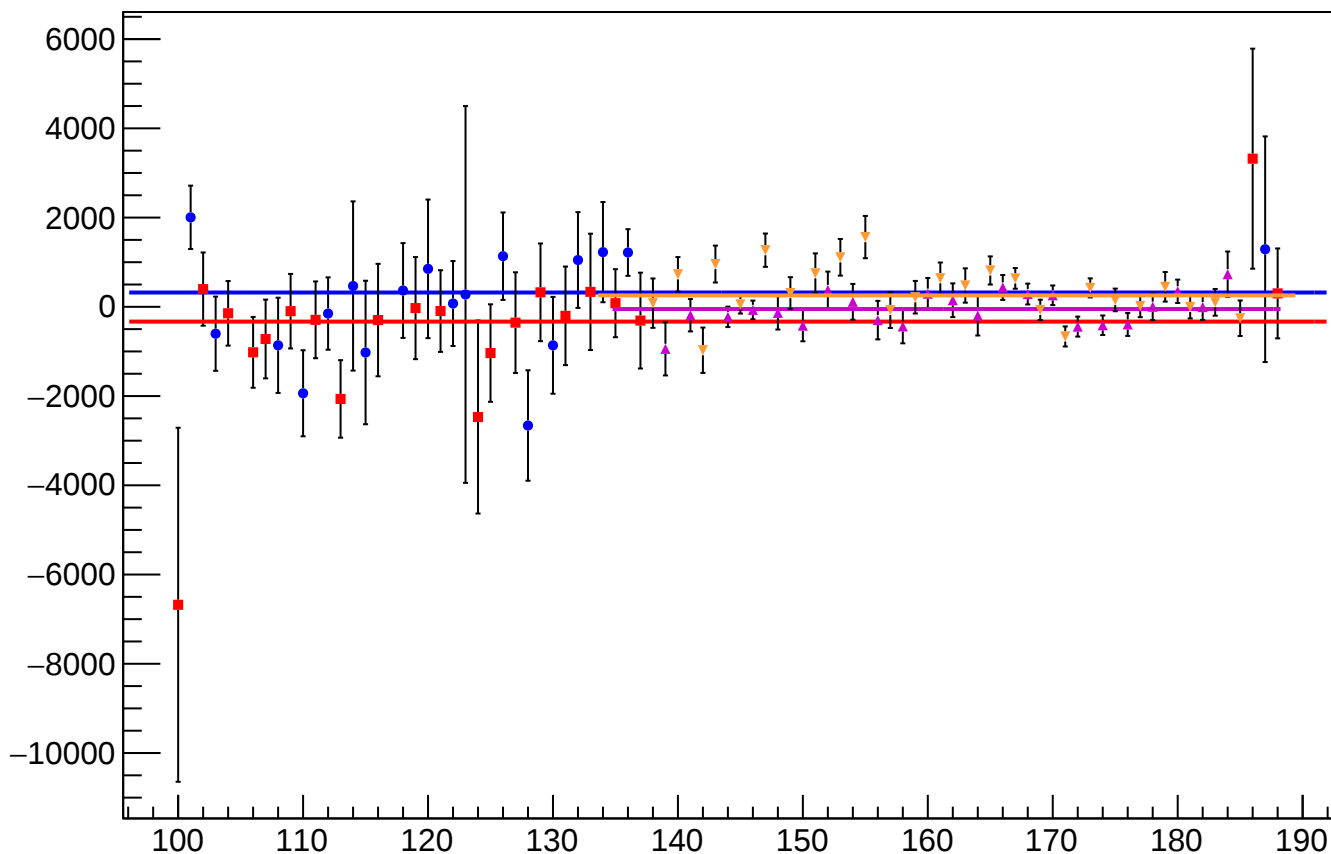
asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 594.319+/-0.165 χ^2/NDF : 404385.7/17
 Left Out: 247.570+/-0.043 χ^2/NDF :2780931.0/24
 Right Out: 603.122+/-0.153 χ^2/NDF : 1015120.1/20
 Left In: 242.117+/-0.043 χ^2/NDF :2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47
 Right: 599.049+/-0.112 χ^2/NDF : 1421034.0/38
 In: 264.236+/-0.041 χ^2/NDF :7137052.4/40
 Out: 273.048+/-0.041 χ^2/NDF :8799051.6/45
 All: 268.681+/-0.029 χ^2/NDF : 15958998.9/86

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 320.845 $\pm$ 235.422 χ^2/NDF : 26.7/17

Left Out: 255.995 $\pm$ 61.418 χ^2/NDF : 63.6/24

Right Out: -331.155 $\pm$ 219.052 χ^2/NDF : 13.5/20

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

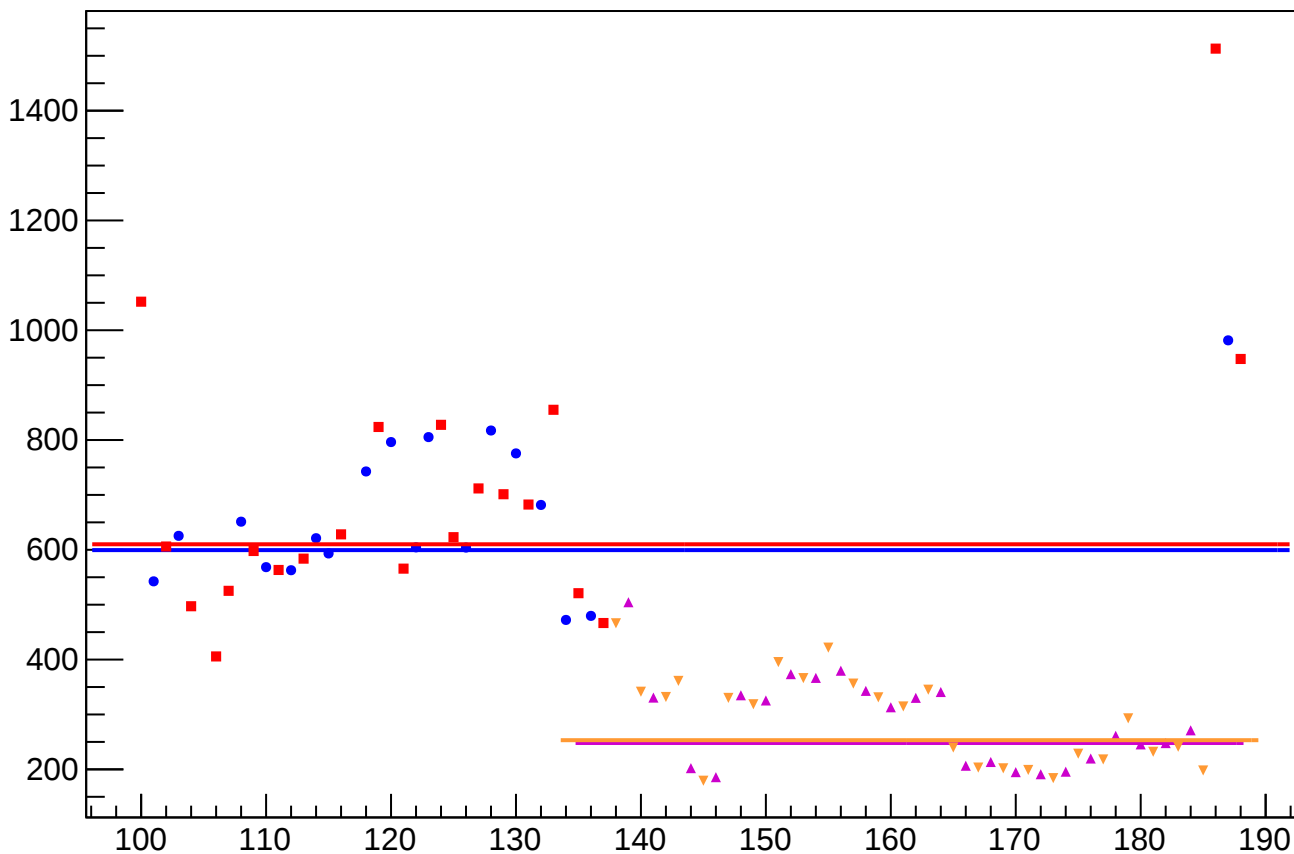
Right: -28.610 $\pm$ 160.368 χ^2/NDF : 44.2/38

In: -25.949 $\pm$ 59.758 χ^2/NDF : 56.5/40

Out: 213.201 $\pm$ 59.138 χ^2/NDF : 83.7/45

All: 94.873 $\pm$ 42.034 χ^2/NDF : 148.3/86

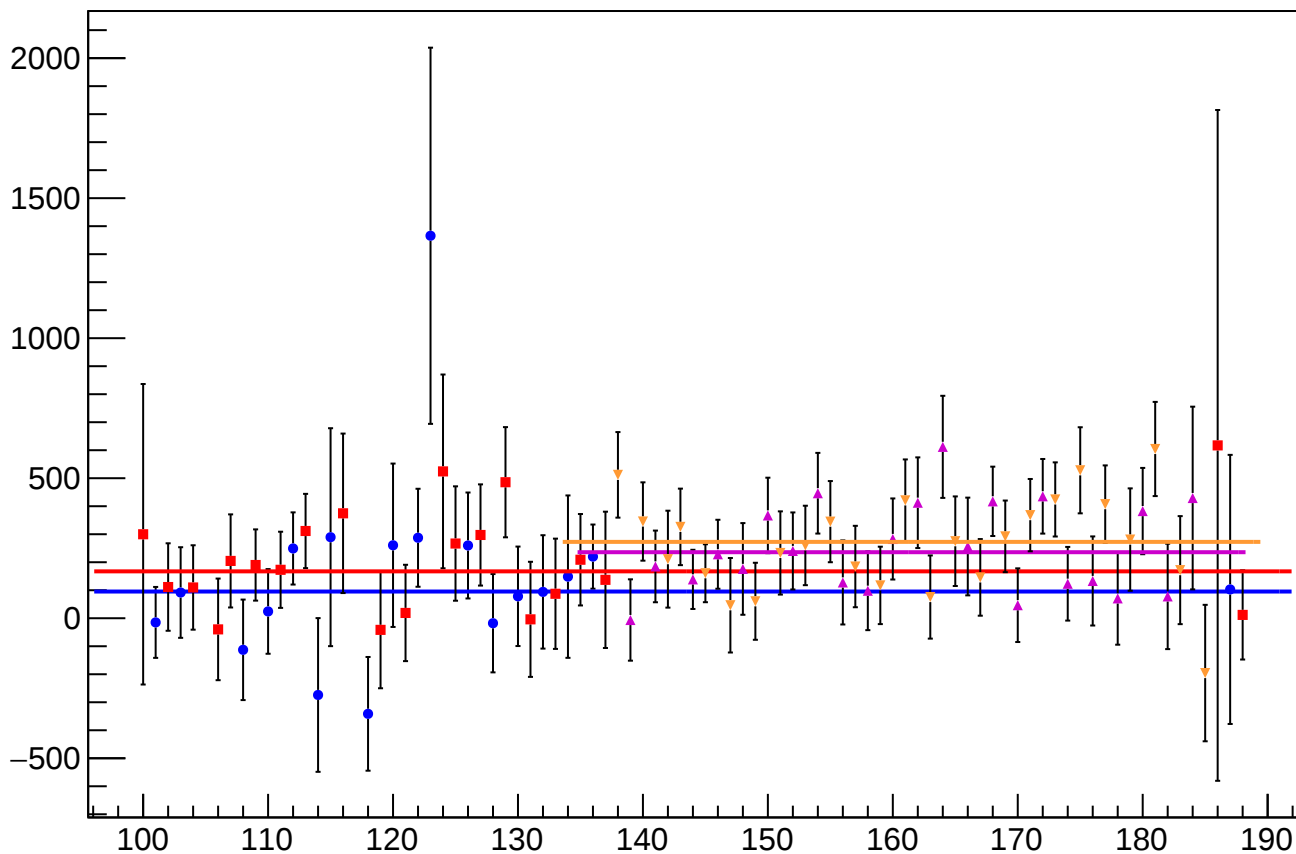
asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 599.427 $\pm$ 0.166 χ^2/NDF : 402019.5/17
 Left Out: 253.137 $\pm$ 0.043 χ^2/NDF :2665975.8/24
 Right Out: 610.056 $\pm$ 0.155 χ^2/NDF : 993117.4/20
 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: 605.124 $\pm$ 0.113 χ^2/NDF : 1397321.6/38
 In: 270.707 $\pm$ 0.042 χ^2/NDF :6913188.1/40
 Out: 279.151 $\pm$ 0.042 χ^2/NDF :8581857.5/45
 All: 274.973 $\pm$ 0.030 χ^2/NDF : 15515220.3/86

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 95.377 $\pm$ 43.221 χ^2/NDF : 17.9/17

Left Out: 272.684 $\pm$ 29.221 χ^2/NDF :27.4/24

Right Out: 167.412 $\pm$ 39.849 χ^2/NDF : 11.7/20

Left In: 235.801 $\pm$ 30.232 χ^2/NDF :24.6/22

Left: 254.870 $\pm$ 21.011 χ^2/NDF : 52.8/47

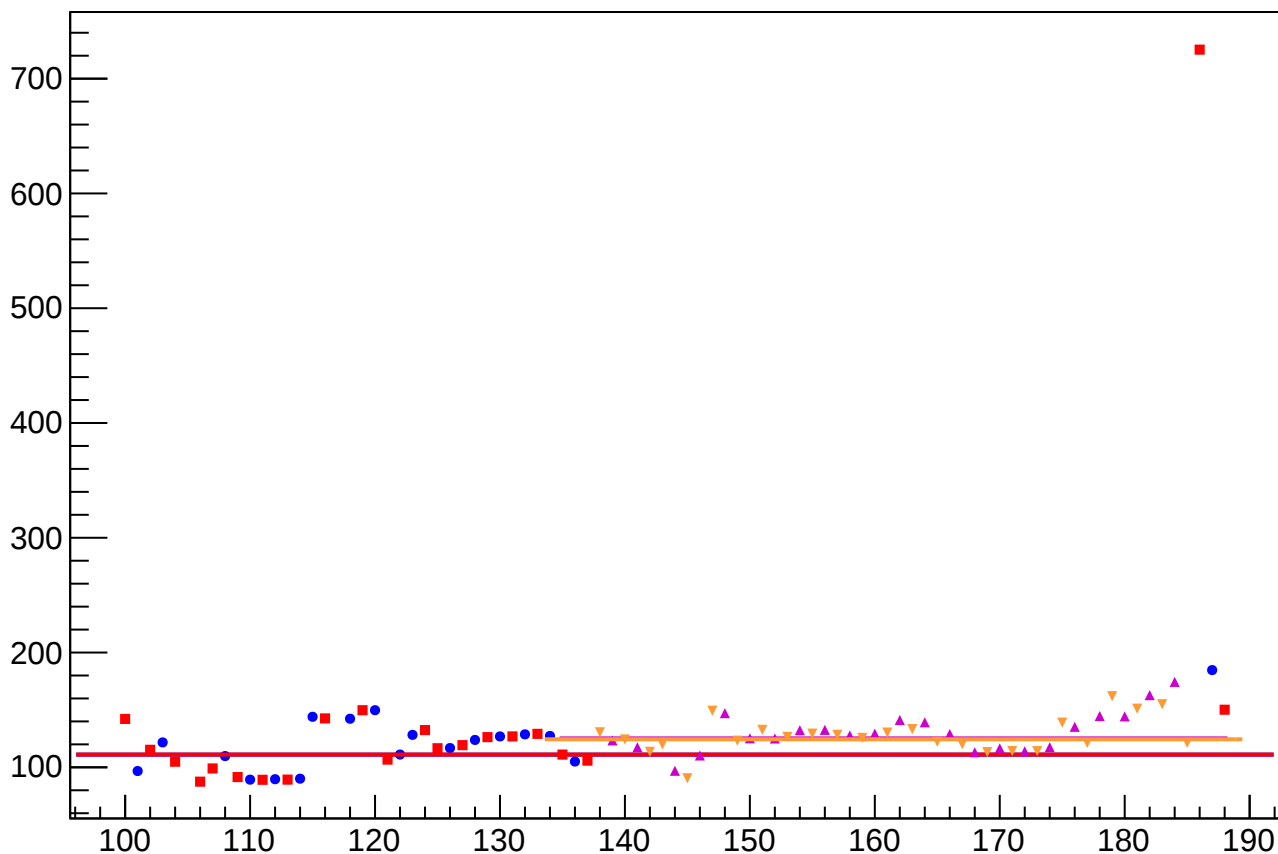
Right: 134.313 $\pm$ 29.297 χ^2/NDF : 31.1/38

In: 189.668 $\pm$ 24.773 χ^2/NDF :49.6/40

Out: 235.872 $\pm$ 23.565 χ^2/NDF :43.6/45

All: 213.924 $\pm$ 17.074 χ^2/NDF : 95.1/86

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 111.040 $\pm$ 0.031 χ^2 /NDF: 343449.4/17

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 111.123 $\pm$ 0.028 χ^2 /NDF: 1005394.3/20

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

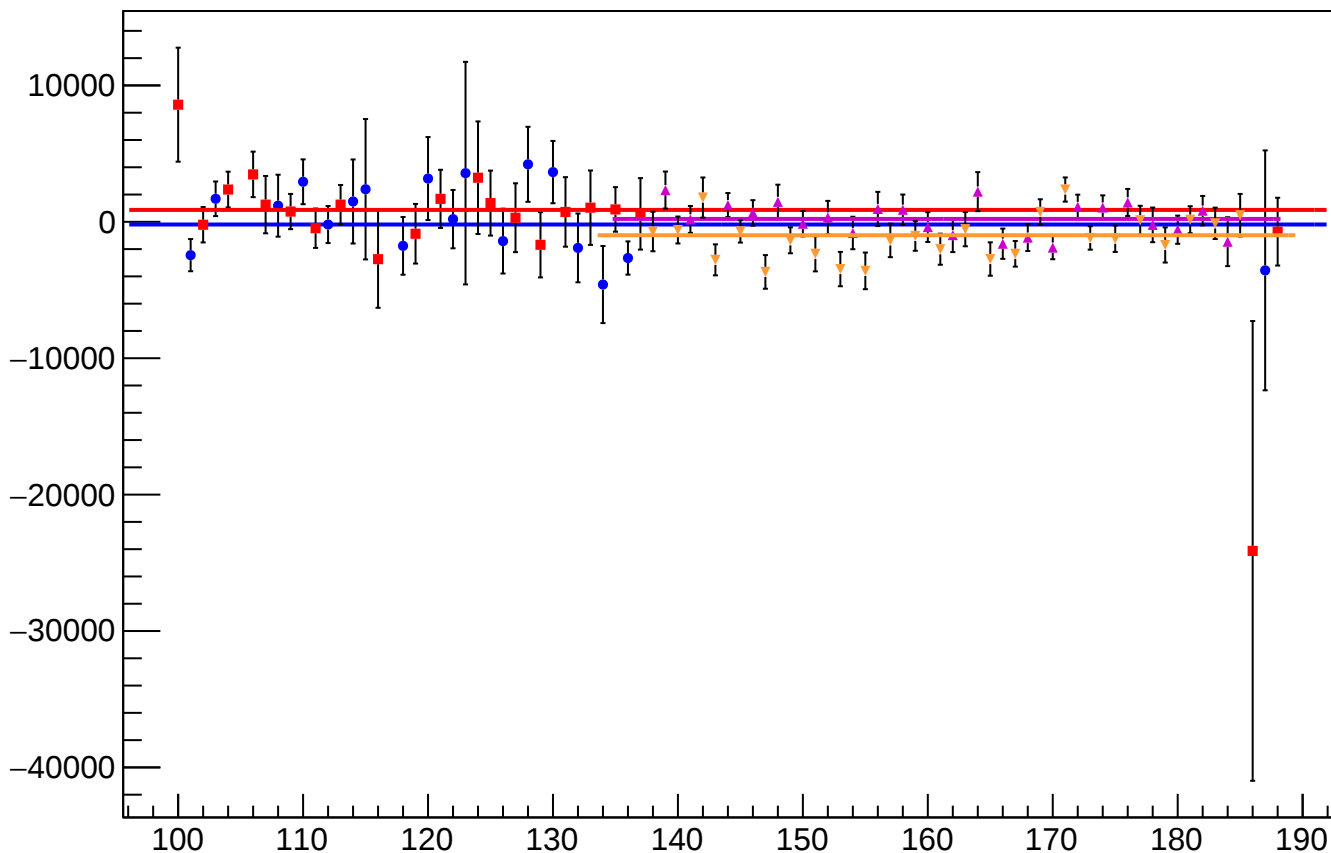
Right: 111.085 $\pm$ 0.021 χ^2 /NDF: 1348847.6/38

In: 120.552 $\pm$ 0.018 χ^2 /NDF: 989077.1/40

Out: 119.776 $\pm$ 0.017 χ^2 /NDF: 1690144.8/45

All: 120.144 $\pm$ 0.012 χ^2 /NDF: 2680252.1/86

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -196.211 $\pm$ 465.097 χ^2 /NDF: 25.2/17

Left Out: -982.839 $\pm$ 218.021 χ^2 /NDF: 47.2/24

Right Out: 873.987 $\pm$ 429.116 χ^2 /NDF: 14.8/20

Left In: 211.420 $\pm$ 223.296 χ^2 /NDF: 25.7/22

Left: -399.983 $\pm$ 155.996 χ^2 /NDF: 87.5/47

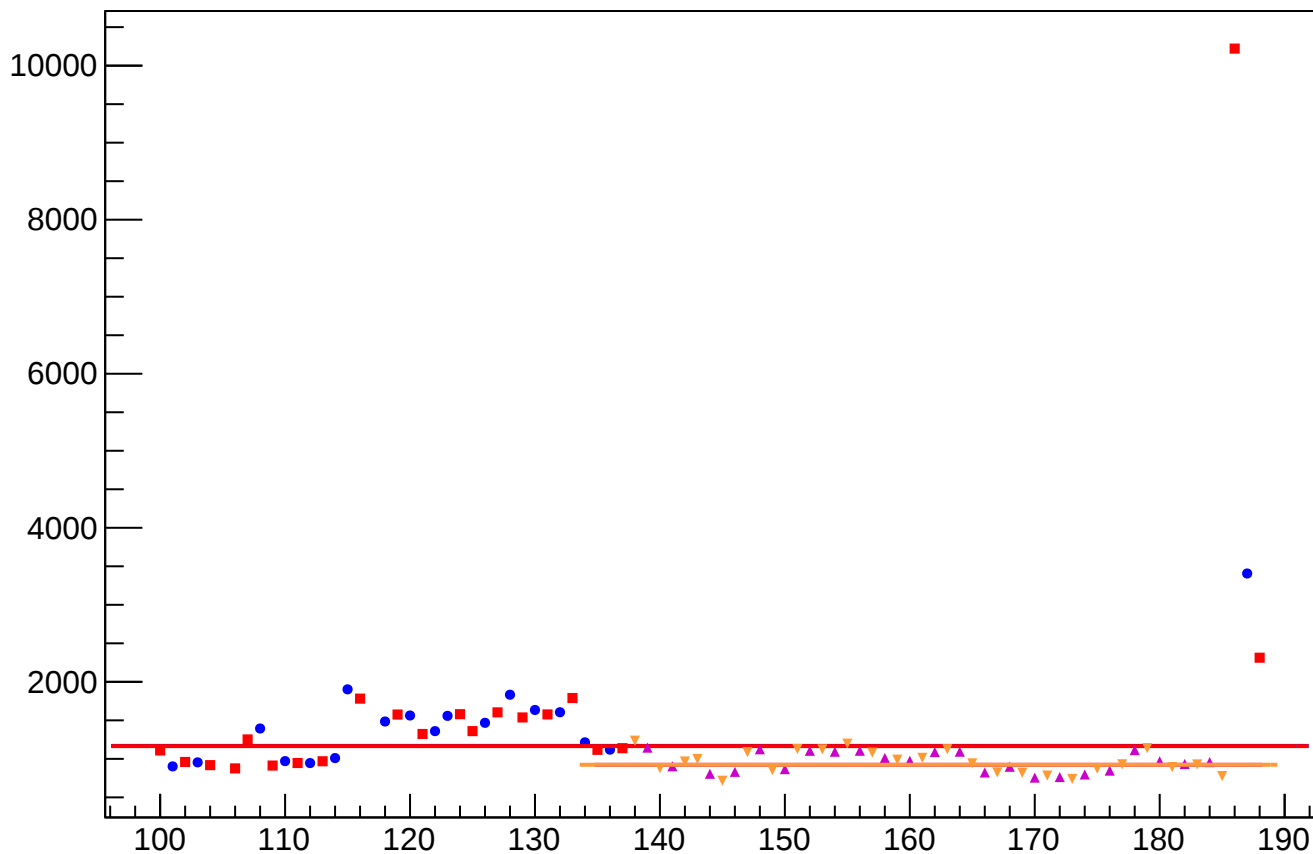
Right: 381.880 $\pm$ 315.385 χ^2 /NDF: 42.9/38

In: 135.061 $\pm$ 201.298 χ^2 /NDF: 51.5/40

Out: -601.869 $\pm$ 194.373 χ^2 /NDF: 76.9/45

All: -246.299 $\pm$ 139.827 χ^2 /NDF: 135.3/86

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1168.054+/-0.329 χ^2/NDF : 831193.3/17

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1165.354+/-0.303 χ^2/NDF : 1792017.1/20

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

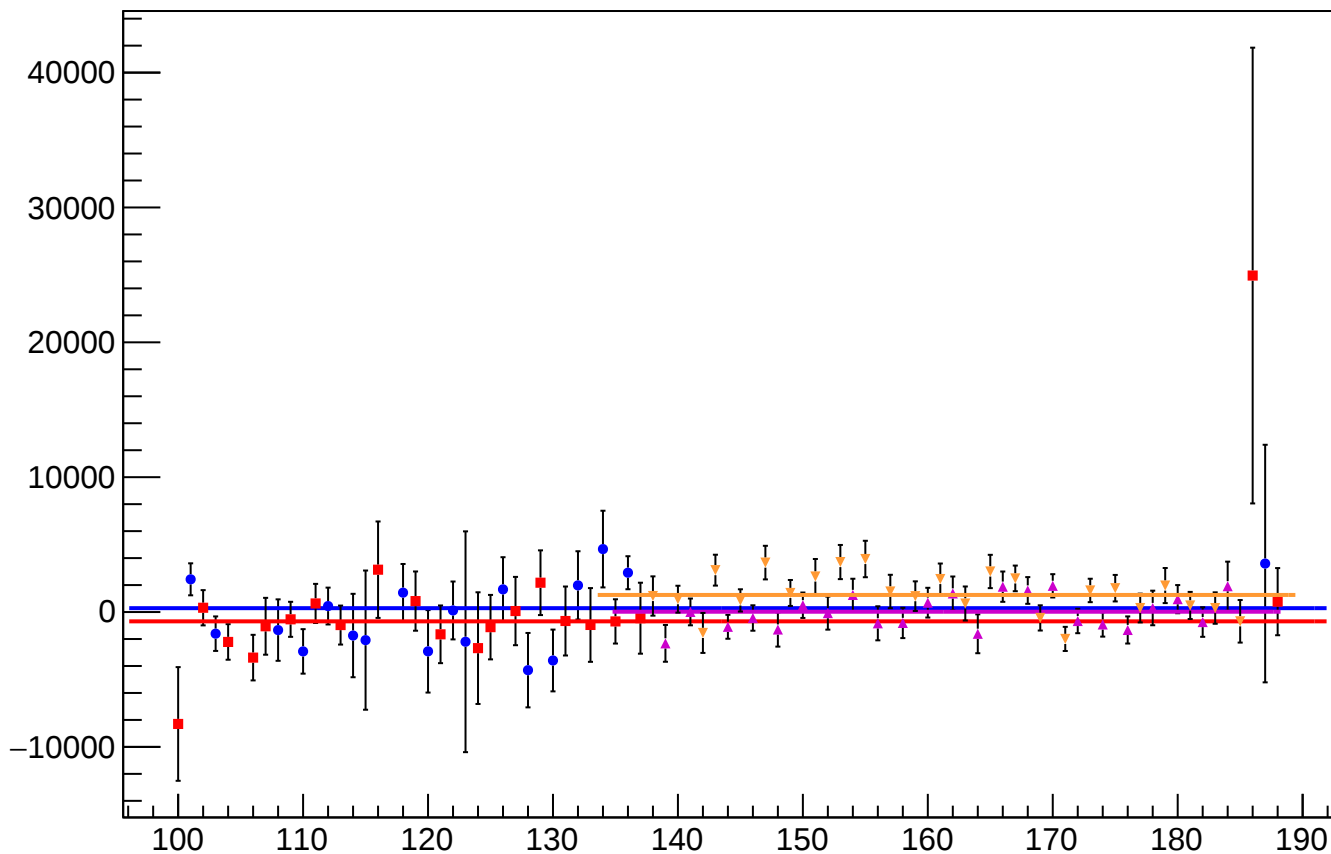
Right: 1166.595+/-0.223 χ^2/NDF : 2623246.7/38

In: 968.291+/-0.142 χ^2/NDF : 1919904.1/40

Out: 973.190+/-0.137 χ^2/NDF : 3139378.4/45

All: 970.826+/-0.099 χ^2/NDF : 5059895.6/86

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 287.210 ± 467.377 $\chi^2/\text{NDF}: 25.4/17$

Left Out: 1267.344 ± 220.133 $\chi^2/\text{NDF}: 44.9/24$

Right Out: -690.070 ± 431.421 $\chi^2/\text{NDF}: 14.9/20$

Left In: 23.478 ± 225.490 $\chi^2/\text{NDF}: 27.2/22$

Left: 660.362 ± 157.518 $\chi^2/\text{NDF}: 87.7/47$

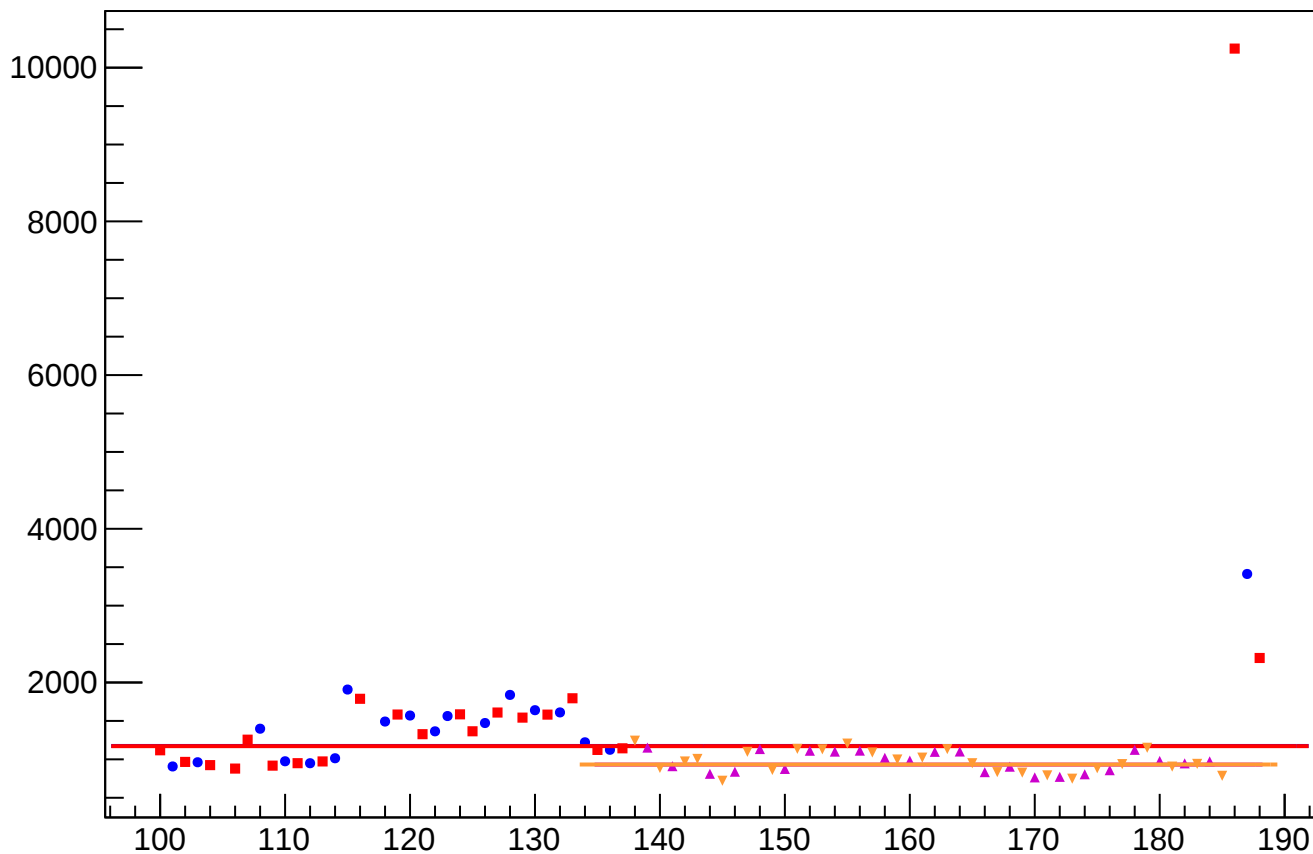
Right: -240.464 ± 317.011 $\chi^2/\text{NDF}: 42.7/38$

In: 73.275 ± 203.089 $\chi^2/\text{NDF}: 52.8/40$

Out: 862.993 ± 196.082 $\chi^2/\text{NDF}: 76.2/45$

All: 481.992 ± 141.063 $\chi^2/\text{NDF}: 136.8/86$

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1174.105+/-0.330 χ^2/NDF : 825198.8/17

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1171.675+/-0.305 χ^2/NDF : 1782921.7/20

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

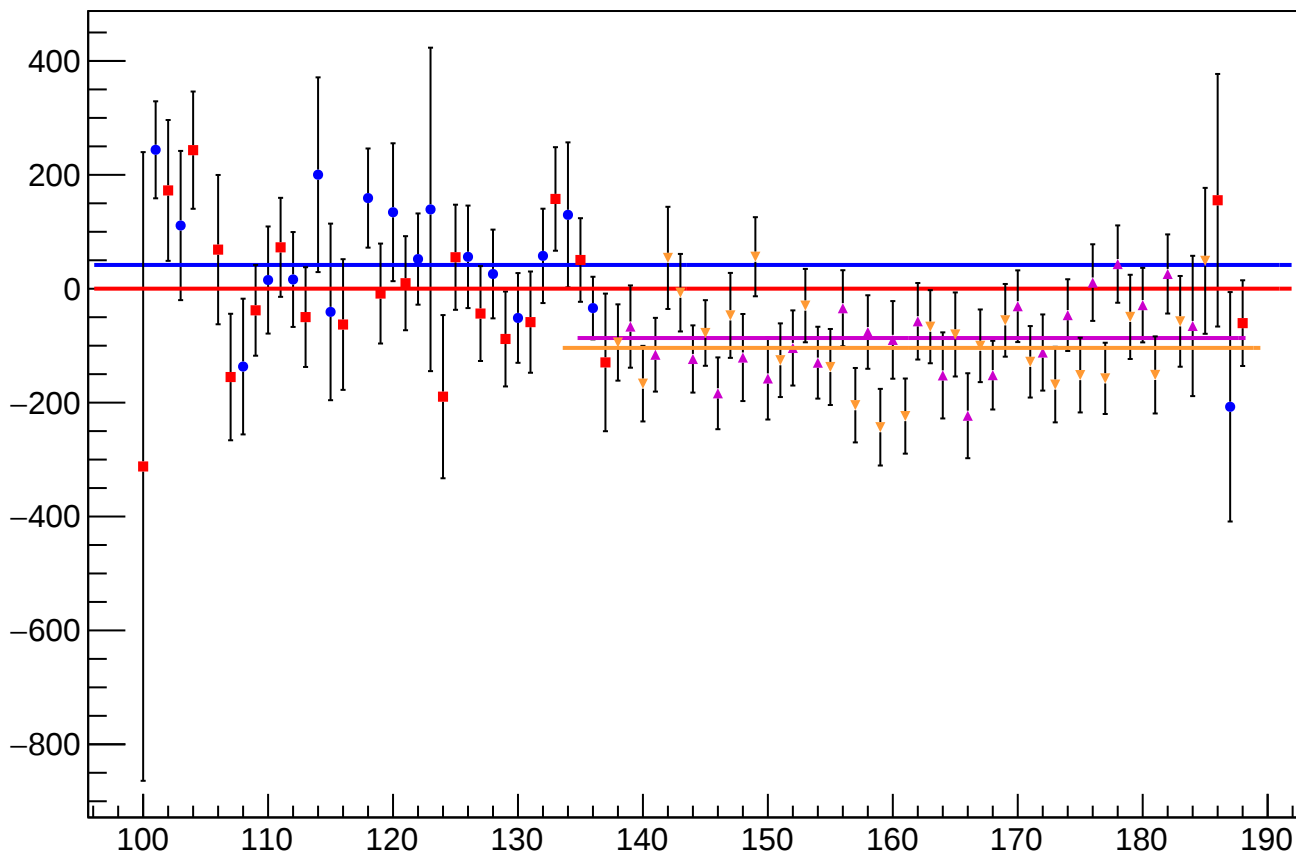
Right: 1172.793+/-0.224 χ^2/NDF : 2608149.7/38

In: 977.302+/-0.144 χ^2/NDF : 1886794.6/40

Out: 982.117+/-0.139 χ^2/NDF : 3099358.7/45

All: 979.794+/-0.100 χ^2/NDF : 4986735.1/86

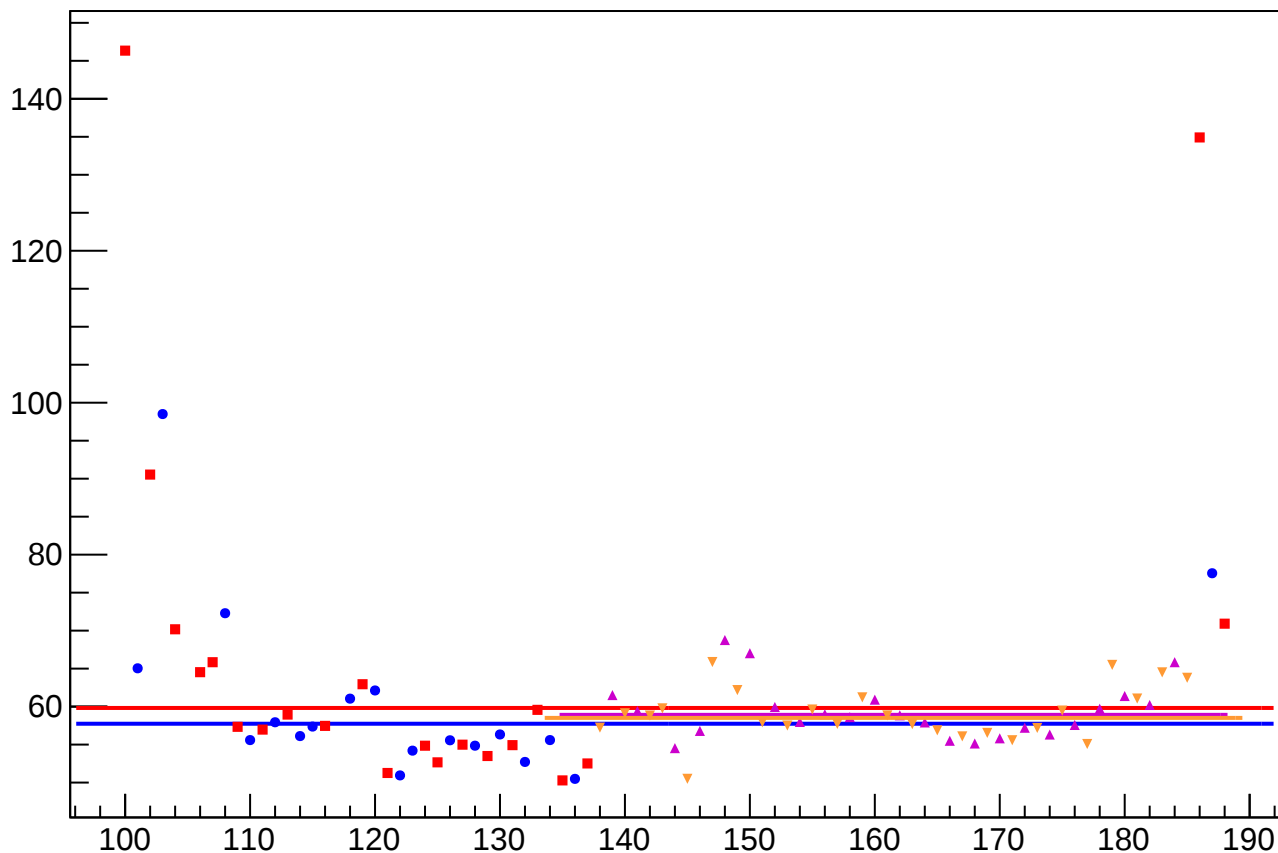
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 41.780 ± 22.473 $\chi^2/\text{NDF}: 17.4/17$
 Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$
 Right Out: 0.139 ± 21.189 $\chi^2/\text{NDF}: 21.3/20$
 Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$
 Right: 19.736 ± 15.417 $\chi^2/\text{NDF}: 40.6/38$
 In: -50.223 ± 11.956 $\chi^2/\text{NDF}: 62.2/40$
 Out: -73.412 ± 11.470 $\chi^2/\text{NDF}: 68.4/45$
 All: -62.298 ± 8.277 $\chi^2/\text{NDF}: 132.5/86$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



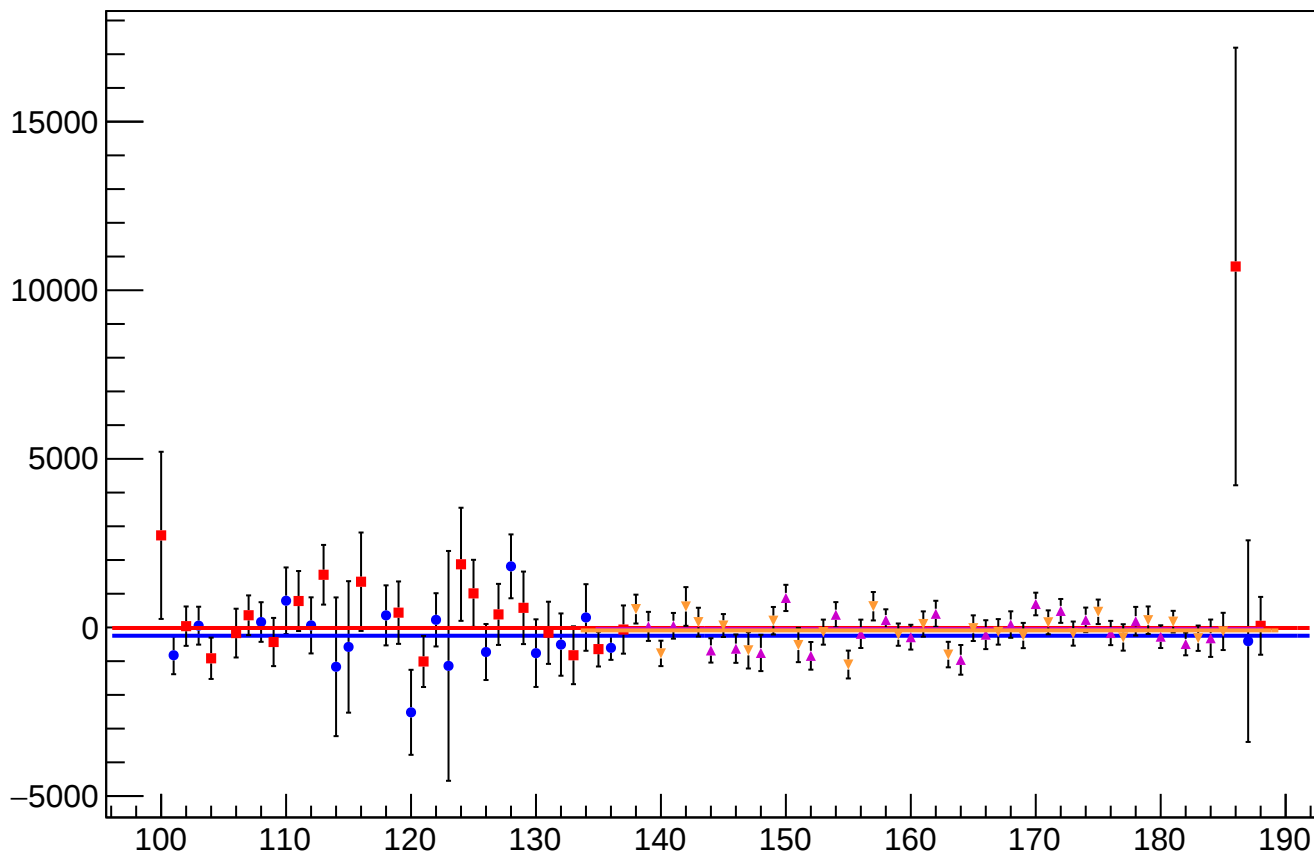
Right In: 57.745 $\pm$ 0.016 χ^2 /NDF: 326276.6/17
 Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24
 Right Out: 59.821 $\pm$ 0.015 χ^2 /NDF: 582910.2/20
 Left In: 58.913 $\pm$ 0.010 χ^2 /NDF:109968.0/22

Left: 58.706 $\pm$ 0.007 χ^2 /NDF: 234021.7/47
 Right: 58.844 $\pm$ 0.011 χ^2 /NDF: 918228.9/38

In: 58.583 $\pm$ 0.008 χ^2 /NDF:440123.2/40
 Out: 58.896 $\pm$ 0.008 χ^2 /NDF:711523.7/45

All: 58.746 $\pm$ 0.006 χ^2 /NDF: 1152364.3/86

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -245.737 ± 184.060 $\chi^2/\text{NDF}: 14.1/17$

Left Out: -87.459 ± 78.556 $\chi^2/\text{NDF}: 27.7/24$

Right Out: -15.786 ± 178.108 $\chi^2/\text{NDF}: 19.0/20$

Left In: -48.742 ± 80.548 $\chi^2/\text{NDF}: 35.3/22$

Left: -68.585 ± 56.239 $\chi^2/\text{NDF}: 63.2/47$

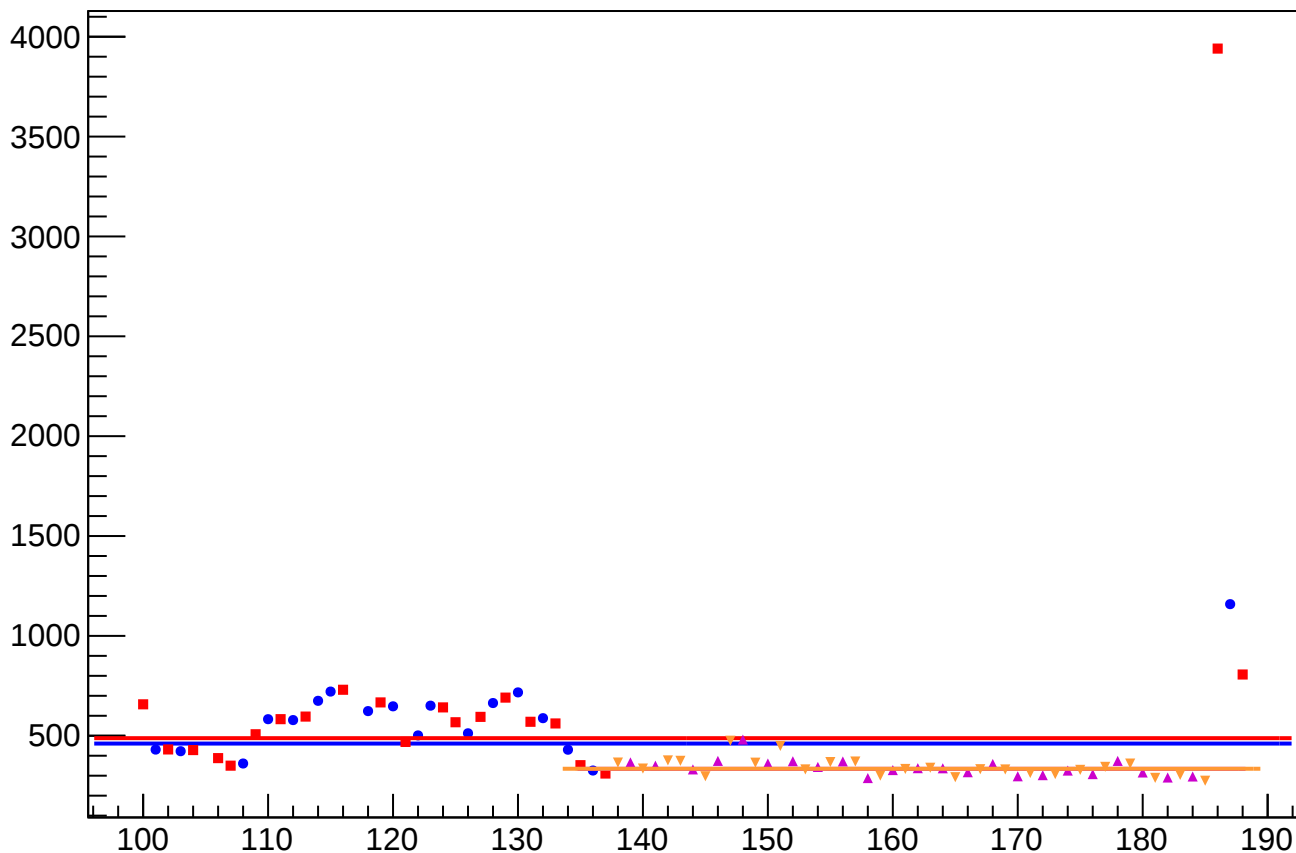
Right: -126.984 ± 127.994 $\chi^2/\text{NDF}: 33.9/38$

In: -80.405 ± 73.791 $\chi^2/\text{NDF}: 50.4/40$

Out: -75.786 ± 71.876 $\chi^2/\text{NDF}: 46.9/45$

All: -78.035 ± 51.488 $\chi^2/\text{NDF}: 97.3/86$

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 460.886+/-0.130 χ^2/NDF : 988711.6/17

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 487.852+/-0.126 χ^2/NDF : 1642231.9/20

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

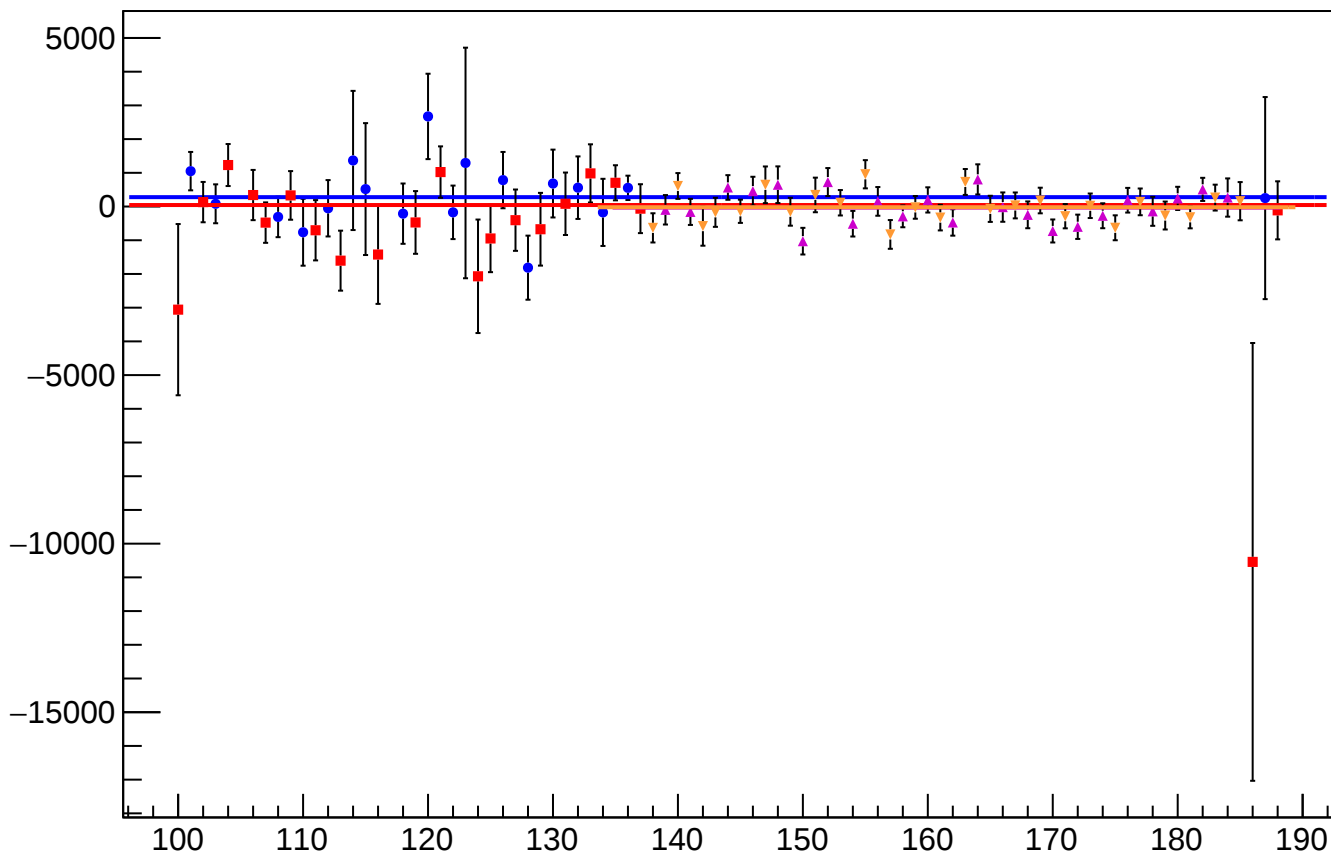
Right: 474.812+/-0.091 χ^2/NDF : 2653112.9/38

In: 354.517+/-0.052 χ^2/NDF : 2181780.9/40

Out: 359.682+/-0.051 χ^2/NDF : 3370793.3/45

All: 357.168+/-0.036 χ^2/NDF : 5557602.3/86

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 278.445 $\pm$ 186.226 χ^2 /NDF: 15.0/17

Left Out: -20.895 $\pm$ 79.812 χ^2 /NDF:27.2/24

Right Out: 44.548 $\pm$ 180.240 χ^2 /NDF: 22.1/20

Left In: -31.800 $\pm$ 81.839 χ^2 /NDF:34.0/22

Left: -26.211 $\pm$ 57.139 χ^2 /NDF: 61.3/47

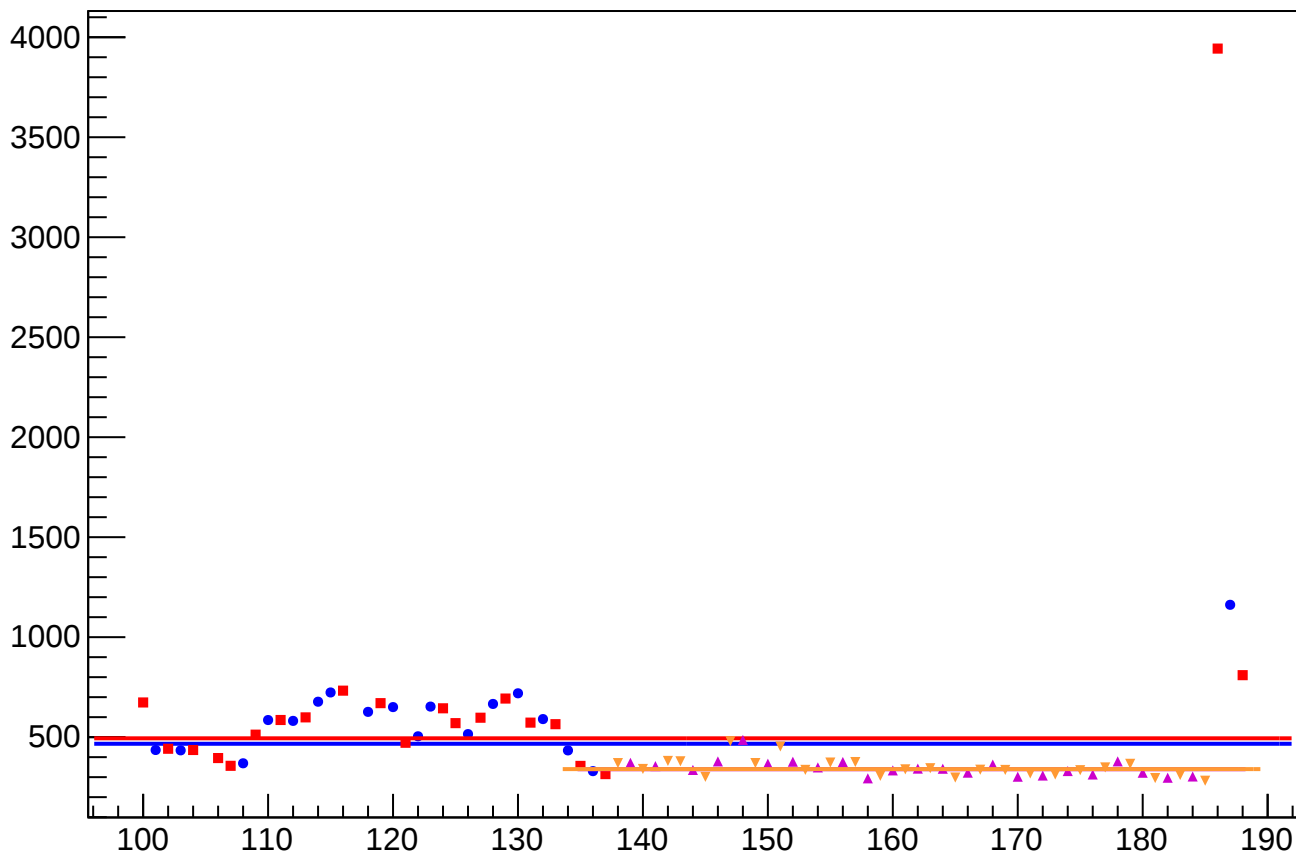
Right: 157.677 $\pm$ 129.514 χ^2 /NDF: 37.9/38

In: 18.418 $\pm$ 74.924 χ^2 /NDF:51.4/40

Out: -10.167 $\pm$ 72.977 χ^2 /NDF:49.4/45

All: 3.750 $\pm$ 52.277 χ^2 /NDF: 100.8/86

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 466.949+/-0.132 χ^2/NDF : 955849.4/17

Left Out: 340.238+/-0.056 χ^2/NDF : 468863.6/24

Right Out: 494.188+/-0.127 χ^2/NDF : 1603497.3/20

Left In: 339.621+/-0.058 χ^2/NDF : 379808.1/22

Left: 339.937+/-0.040 χ^2/NDF : 848729.8/47

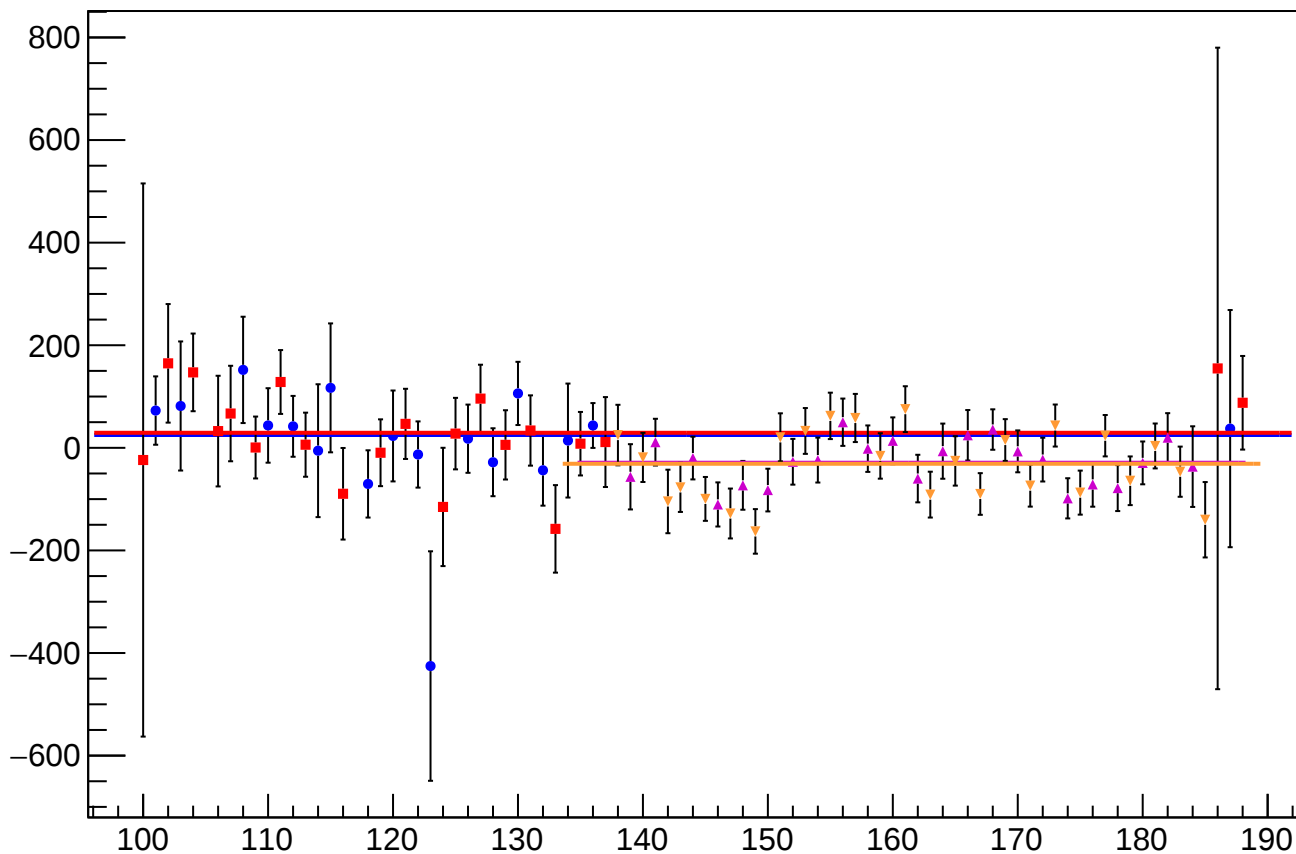
Right: 481.013+/-0.092 χ^2/NDF : 2581438.9/38

In: 360.231+/-0.053 χ^2/NDF : 2119290.0/40

Out: 365.475+/-0.052 χ^2/NDF : 3292270.8/45

All: 362.922+/-0.037 χ^2/NDF : 5416588.9/86

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 25.049 ± 17.818 $\chi^2/\text{NDF}: 13.0/17$

Left Out: -31.063 ± 9.170 $\chi^2/\text{NDF}: 52.6/24$

Right Out: 29.330 ± 17.120 $\chi^2/\text{NDF}: 17.2/20$

Left In: -29.055 ± 9.449 $\chi^2/\text{NDF}: 22.4/22$

Left: -30.089 ± 6.581 $\chi^2/\text{NDF}: 75.1/47$

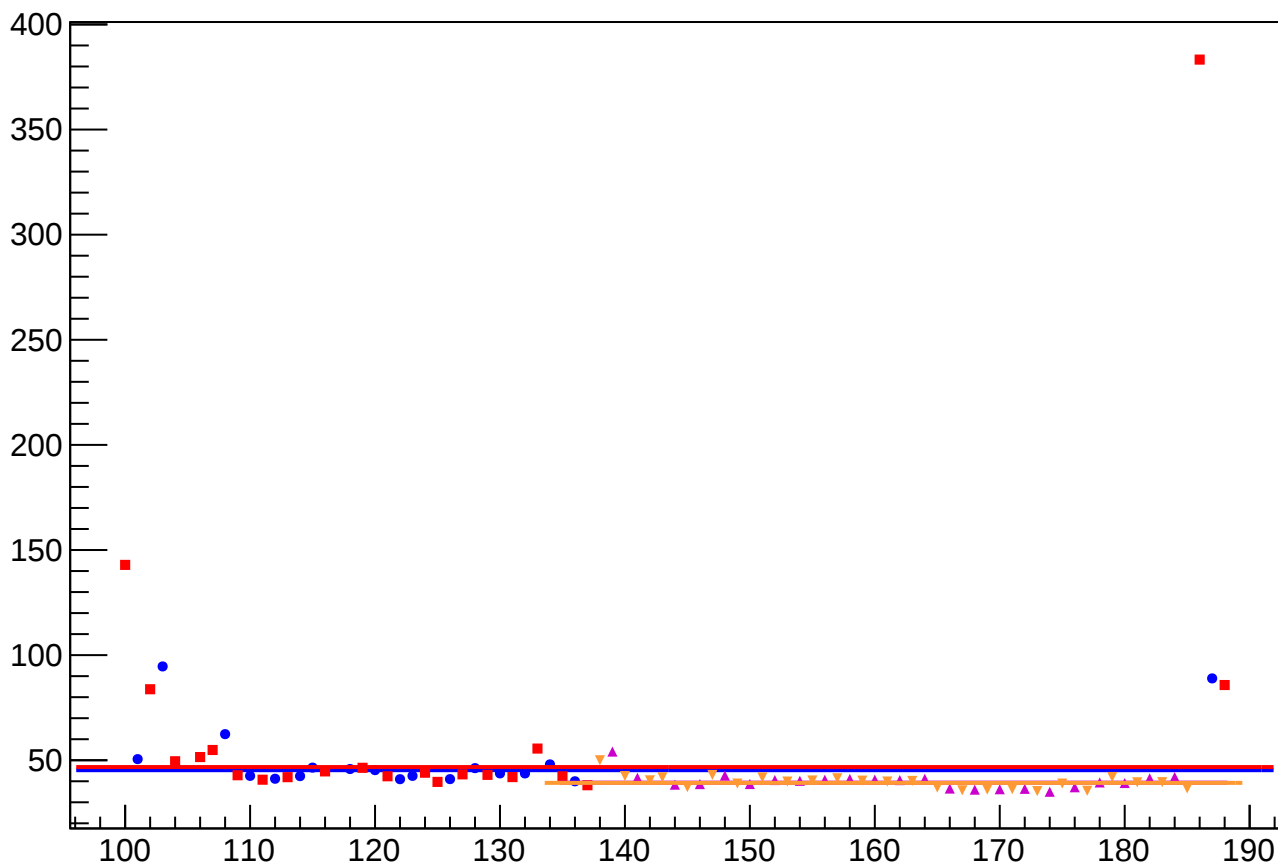
Right: 27.275 ± 12.345 $\chi^2/\text{NDF}: 30.3/38$

In: -17.179 ± 8.348 $\chi^2/\text{NDF}: 42.7/40$

Out: -17.600 ± 8.083 $\chi^2/\text{NDF}: 79.5/45$

All: -17.396 ± 5.807 $\chi^2/\text{NDF}: 122.1/86$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 45.271+/-0.013 χ^2/NDF : 510009.5/17

Left Out: 39.235+/-0.006 χ^2/NDF : 201960.7/24

Right Out: 46.756+/-0.012 χ^2/NDF : 1377361.6/20

Left In: 39.338+/-0.007 χ^2/NDF : 215671.3/22

Left: 39.285+/-0.005 χ^2/NDF : 417755.0/47

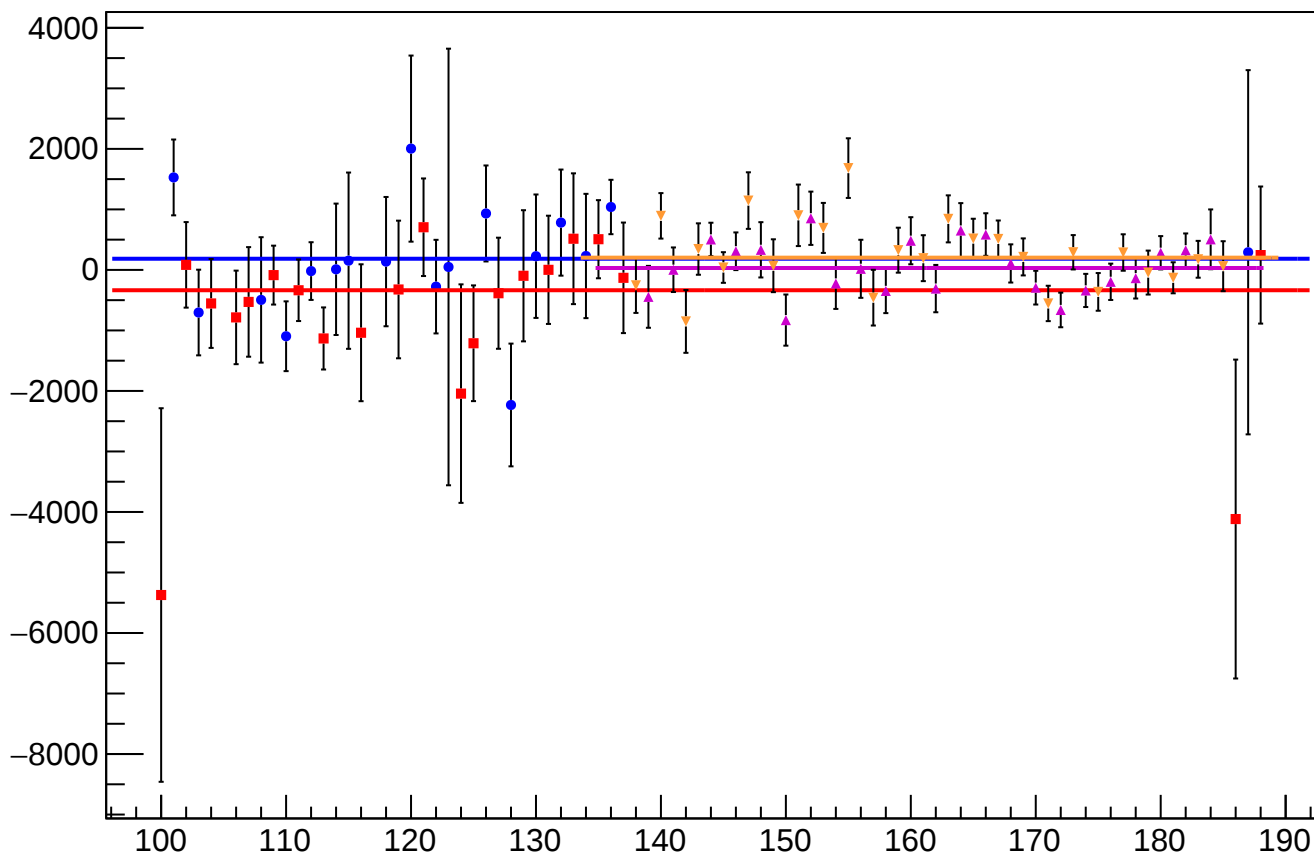
Right: 46.043+/-0.009 χ^2/NDF : 1894602.8/38

In: 40.640+/-0.006 χ^2/NDF : 898701.6/40

Out: 40.912+/-0.006 χ^2/NDF : 1879292.6/45

All: 40.780+/-0.004 χ^2/NDF : 2779084.4/86

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 184.508 $\pm$ 188.671 χ^2 /NDF: 24.2/17

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -335.998 $\pm$ 177.071 χ^2 /NDF: 14.8/20

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

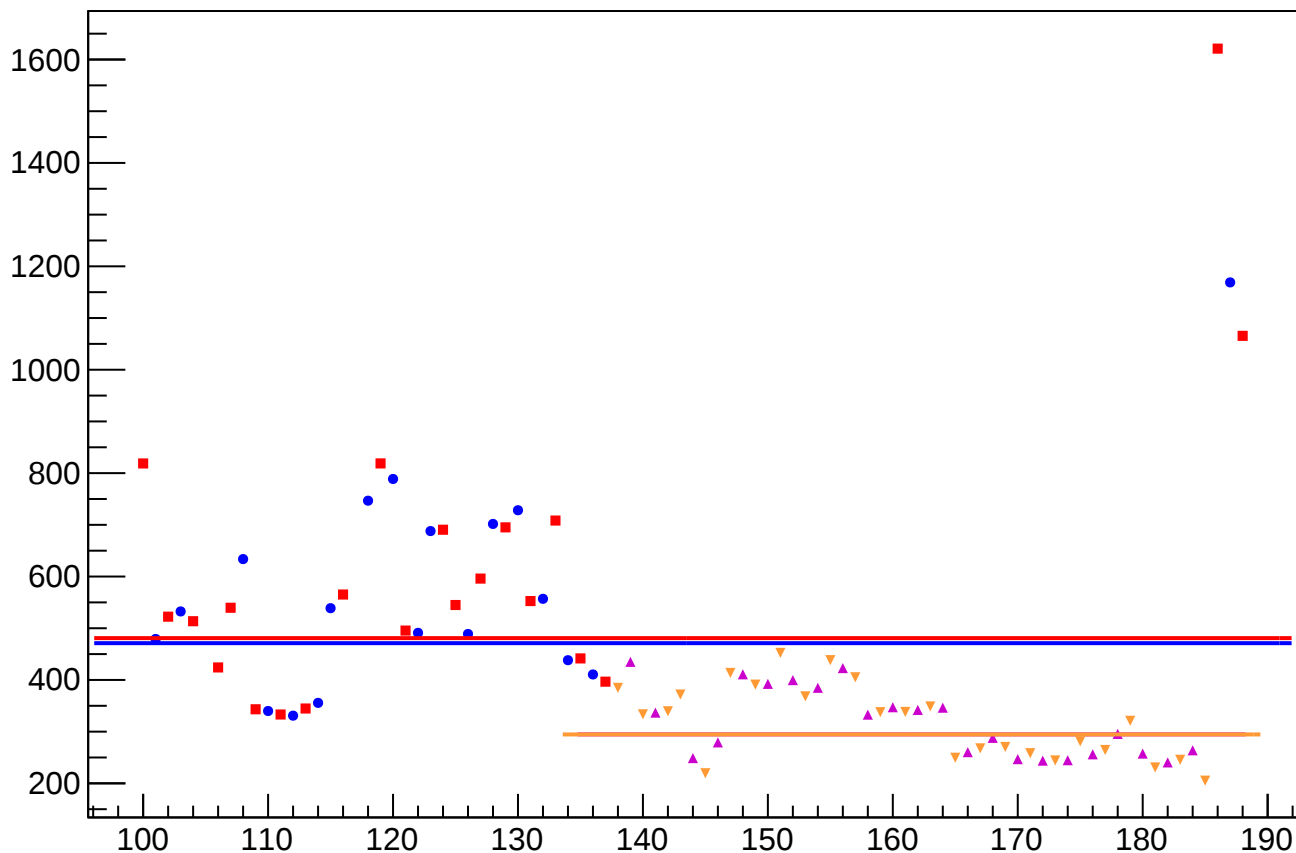
Right: -92.237 $\pm$ 129.114 χ^2 /NDF: 43.1/38

In: 51.039 $\pm$ 67.350 χ^2 /NDF:58.1/40

Out: 128.838 $\pm$ 65.440 χ^2 /NDF:67.6/45

All: 91.058 $\pm$ 46.934 χ^2 /NDF: 126.4/86

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 471.125+/-0.133 χ^2/NDF : 991726.2/17

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 480.867+/-0.125 χ^2/NDF : 1890383.7/20

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

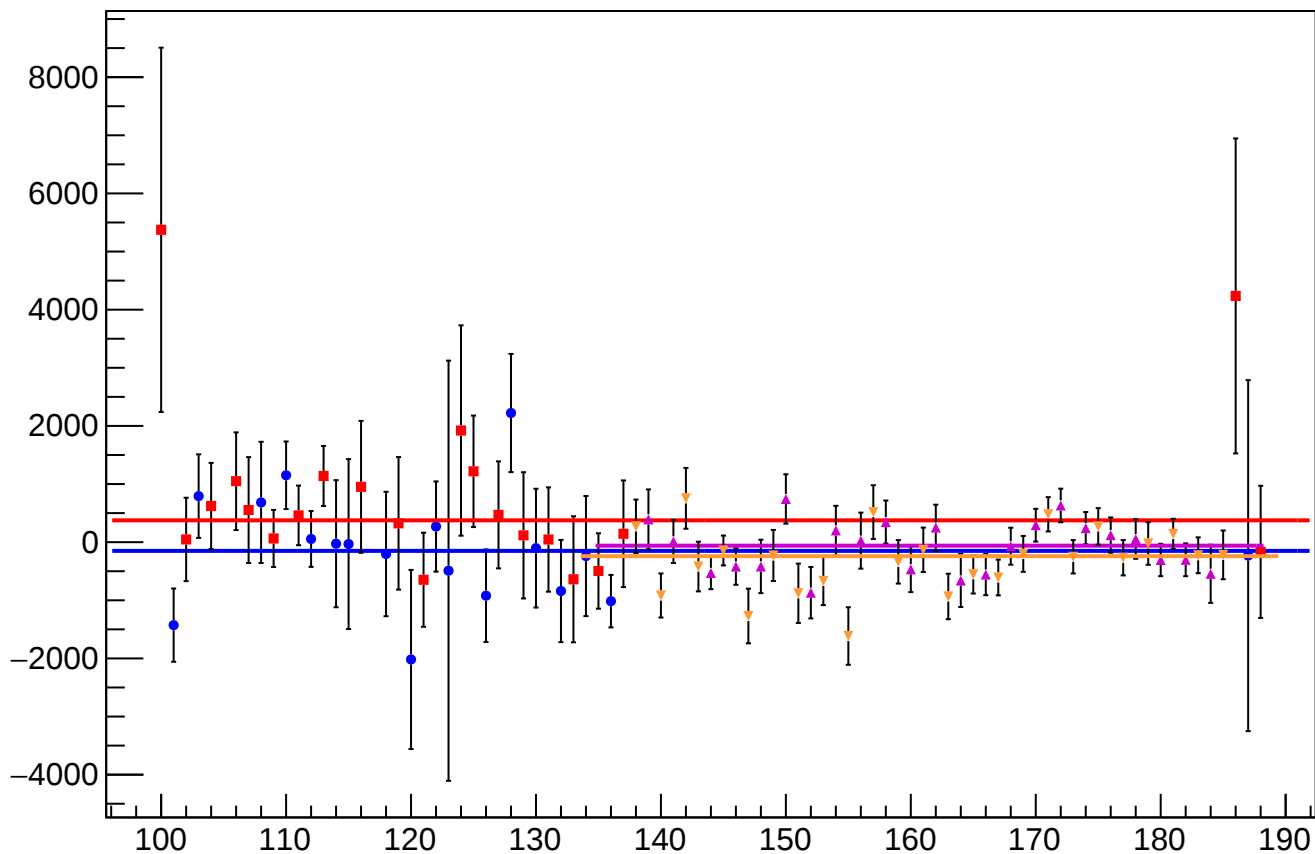
Right: 476.305+/-0.091 χ^2/NDF : 2884944.8/38

In: 317.200+/-0.048 χ^2/NDF : 3814609.7/40

Out: 320.033+/-0.046 χ^2/NDF : 5481882.3/45

All: 318.658+/-0.033 χ^2/NDF : 9298311.9/86

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -149.827 ± 189.839 χ^2/NDF : 24.1/17

Left Out: -240.357 ± 71.100 χ^2/NDF : 42.9/24

Right Out: 375.246 ± 178.912 χ^2/NDF : 14.7/20

Left In: -60.330 ± 72.788 χ^2/NDF : 30.9/22

Left: -152.455 ± 50.862 χ^2/NDF : 77.0/47

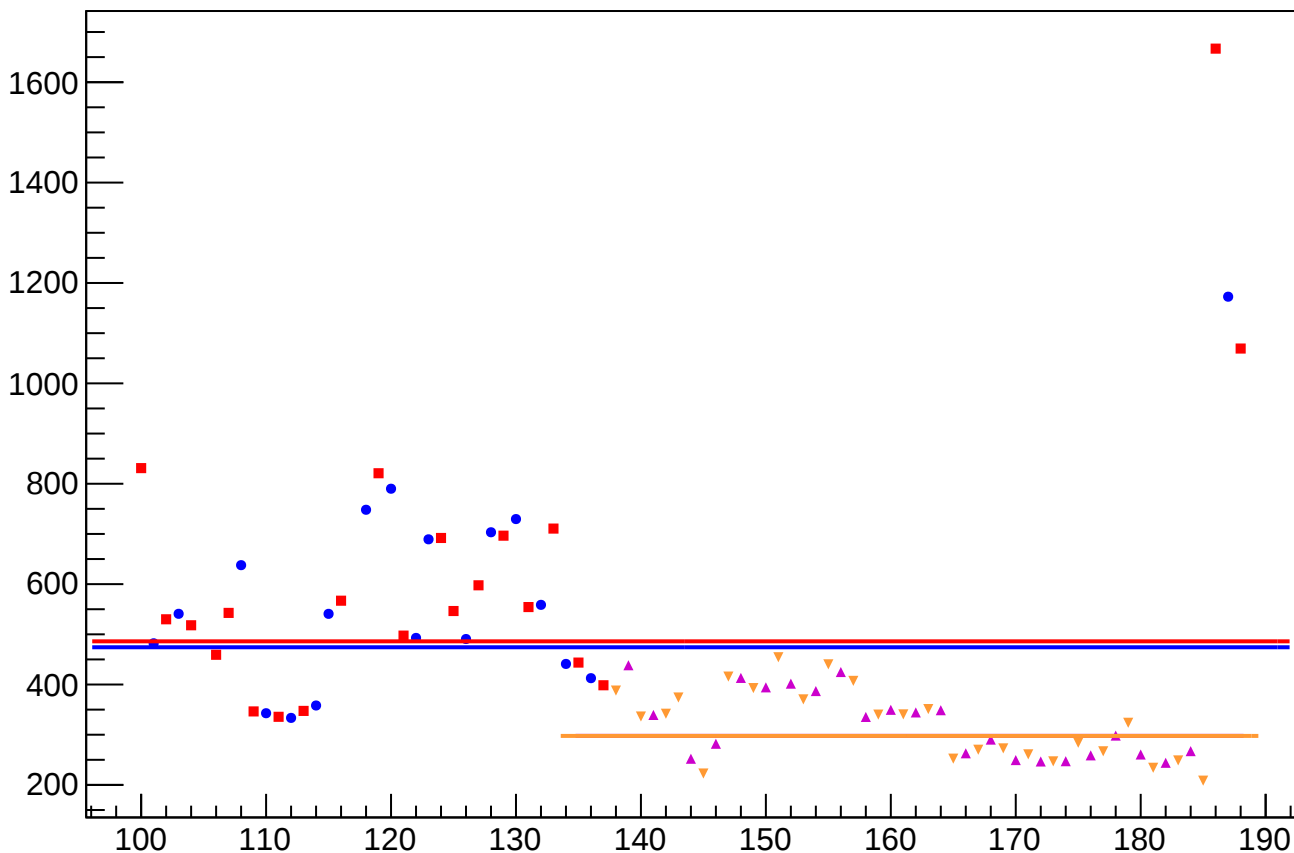
Right: 128.256 ± 130.201 χ^2/NDF : 42.9/38

In: -71.800 ± 67.964 χ^2/NDF : 55.2/40

Out: -156.394 ± 66.074 χ^2/NDF : 67.9/45

All: -115.290 ± 47.375 χ^2/NDF : 123.9/86

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 474.227+/-0.134 χ^2/NDF : 982678.1/17

Left Out: 297.613+/-0.050 χ^2/NDF : 1637757.8/24

Right Out: 486.045+/-0.127 χ^2/NDF : 1875011.8/20

Left In: 297.699+/-0.051 χ^2/NDF : 1266306.2/22

Left: 297.655+/-0.036 χ^2/NDF : 2904065.4/47

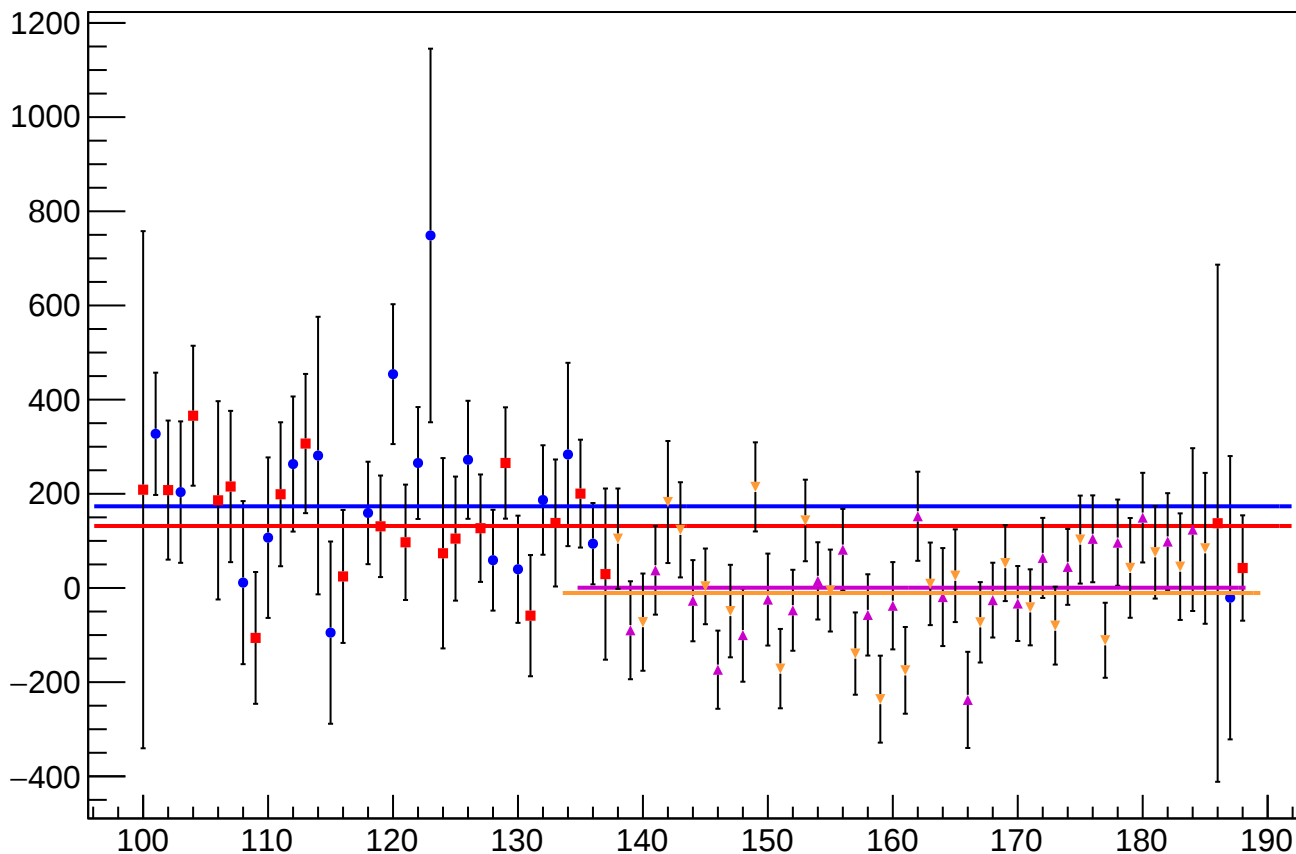
Right: 480.486+/-0.092 χ^2/NDF : 2861794.5/38

In: 320.324+/-0.048 χ^2/NDF : 3756693.3/40

Out: 323.313+/-0.047 χ^2/NDF : 5428698.4/45

All: 321.861+/-0.033 χ^2/NDF : 9187380.1/86

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 173.459 $\pm$ 32.639 χ^2 /NDF: 15.9/17

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 131.659 $\pm$ 31.104 χ^2 /NDF: 13.2/20

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

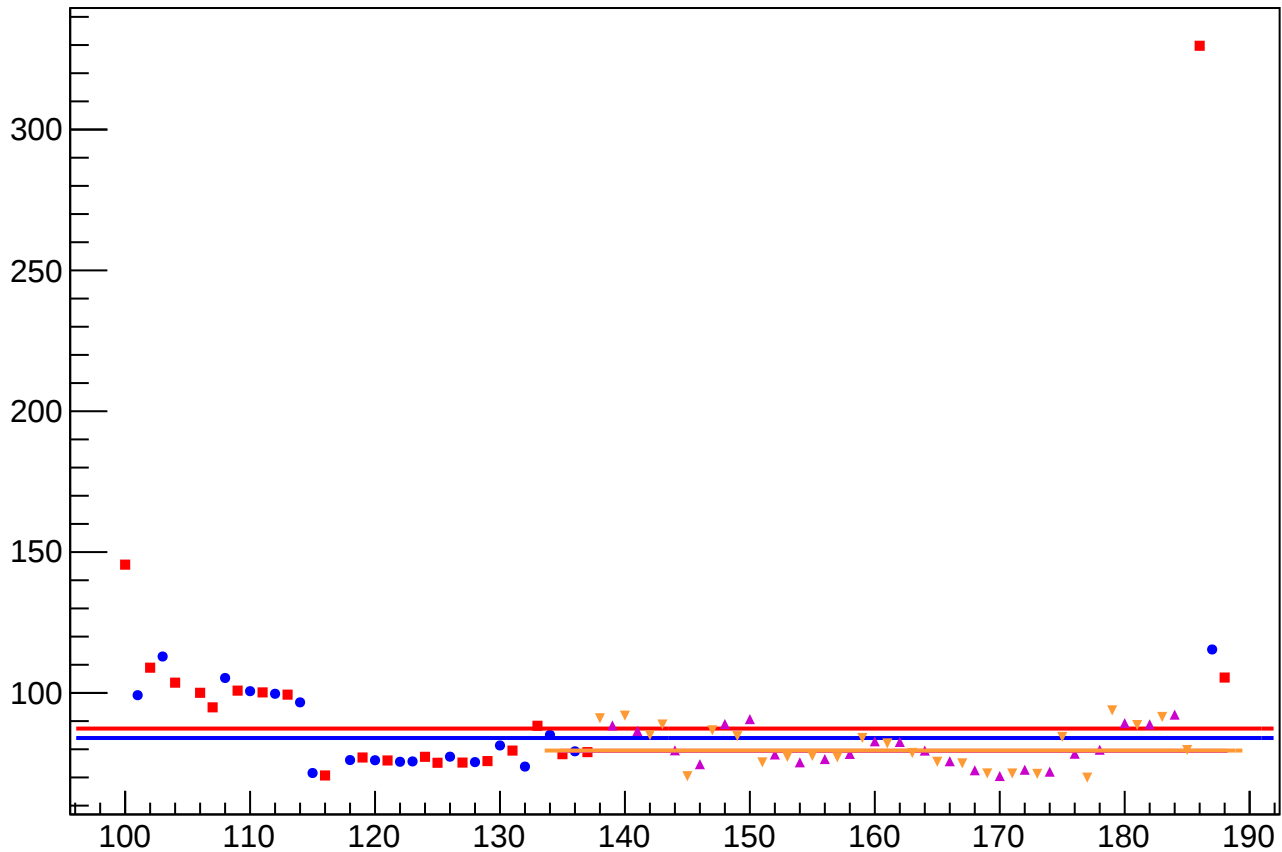
Right: 151.553 $\pm$ 22.517 χ^2 /NDF: 30.0/38

In: 44.646 $\pm$ 16.479 χ^2 /NDF:60.6/40

Out: 26.850 $\pm$ 15.970 χ^2 /NDF:64.9/45

All: 35.468 $\pm$ 11.468 χ^2 /NDF: 126.1/86

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 83.996+/-0.023 χ^2/NDF : 276347.3/17

Left Out: 79.551+/-0.013 χ^2/NDF : 309075.2/24

Right Out: 87.357+/-0.022 χ^2/NDF : 739683.6/20

Left In: 79.436+/-0.013 χ^2/NDF : 212440.1/22

Left: 79.495+/-0.009 χ^2/NDF : 521552.2/47

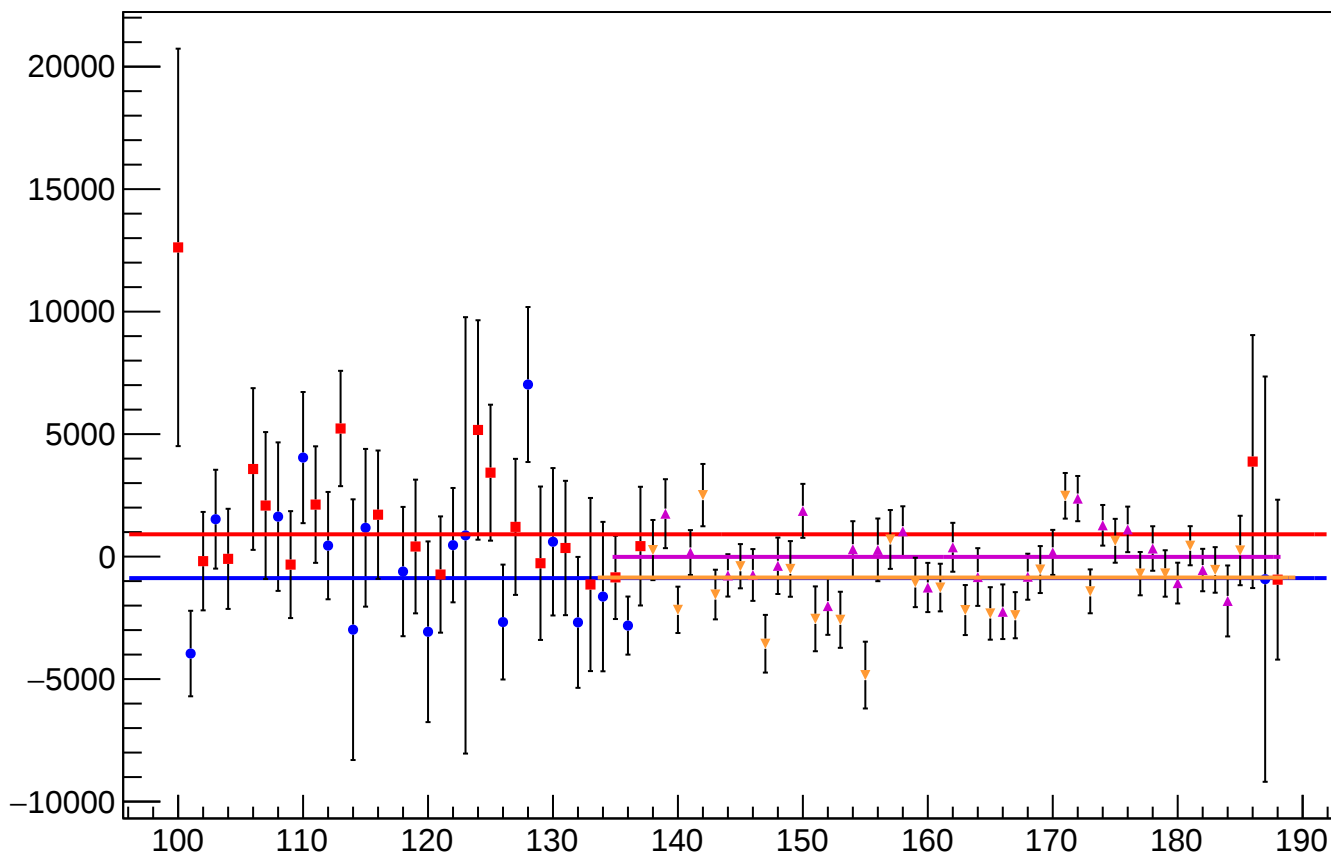
Right: 85.757+/-0.016 χ^2/NDF : 1027144.9/38

In: 80.599+/-0.012 χ^2/NDF : 517868.1/40

Out: 81.609+/-0.011 χ^2/NDF : 1141517.8/45

All: 81.120+/-0.008 χ^2/NDF : 1663259.7/86

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -877.956+/-583.050 χ^2/NDF : 20.5/17

Left Out: -854.130+/-204.090 χ^2/NDF : 56.0/24

Right Out: 910.425+/-577.123 χ^2/NDF : 12.0/20

Left In: -11.687+/-210.073 χ^2/NDF : 31.2/22

Left: -445.076+/-146.383 χ^2/NDF : 95.5/47

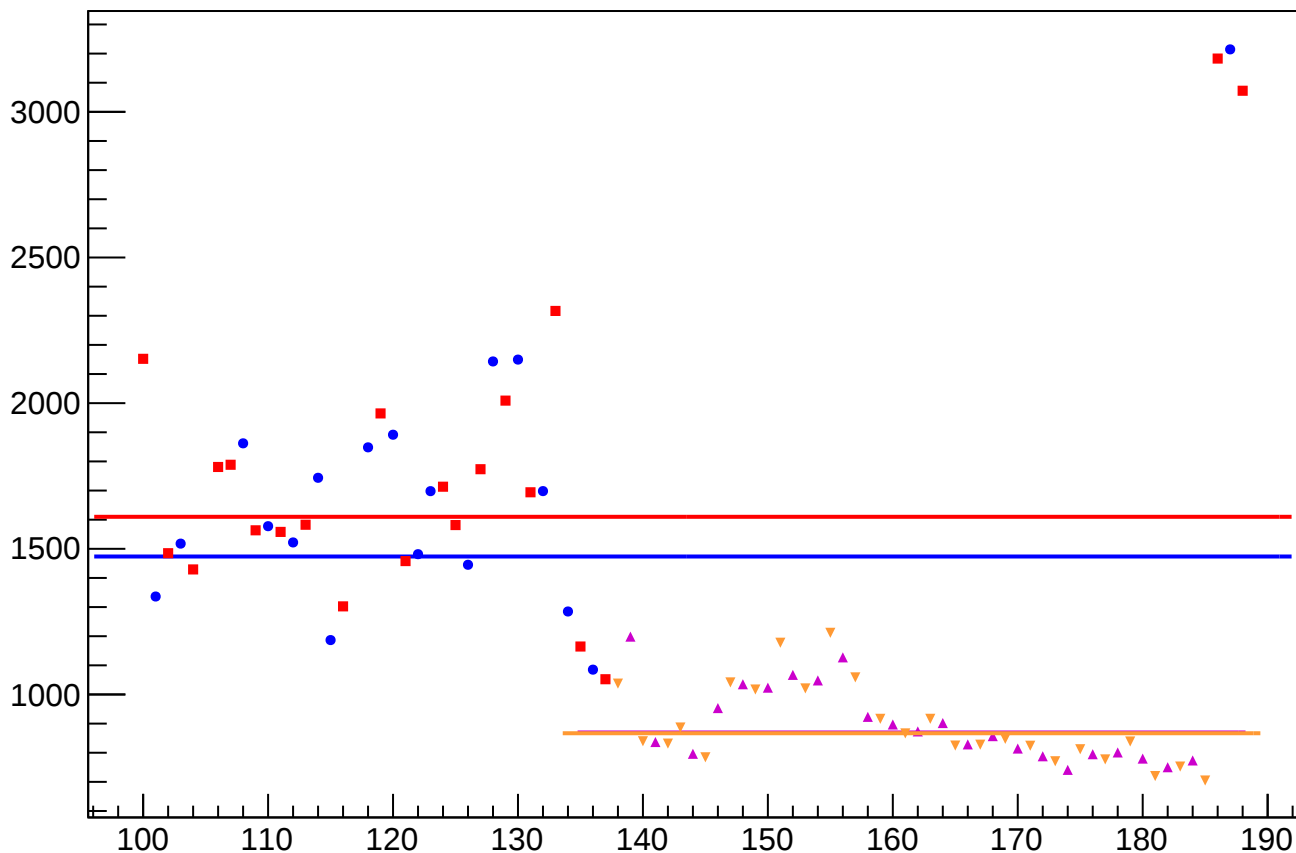
Right: 25.371+/-410.167 χ^2/NDF : 37.3/38

In: -111.222+/-197.636 χ^2/NDF : 53.7/40

Out: -657.989+/-192.413 χ^2/NDF : 76.3/45

All: -391.925+/-137.866 χ^2/NDF : 133.9/86

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1473.614 $\pm$ 0.412 χ^2 /NDF: 654360.2/17

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1609.905 $\pm$ 0.408 χ^2 /NDF: 1069404.5/20

Left In: 869.569 $\pm$ 0.149 χ^2 /NDF: 582301.2/22

Left: 868.192 $\pm$ 0.104 χ^2 /NDF: 1244180.7/47

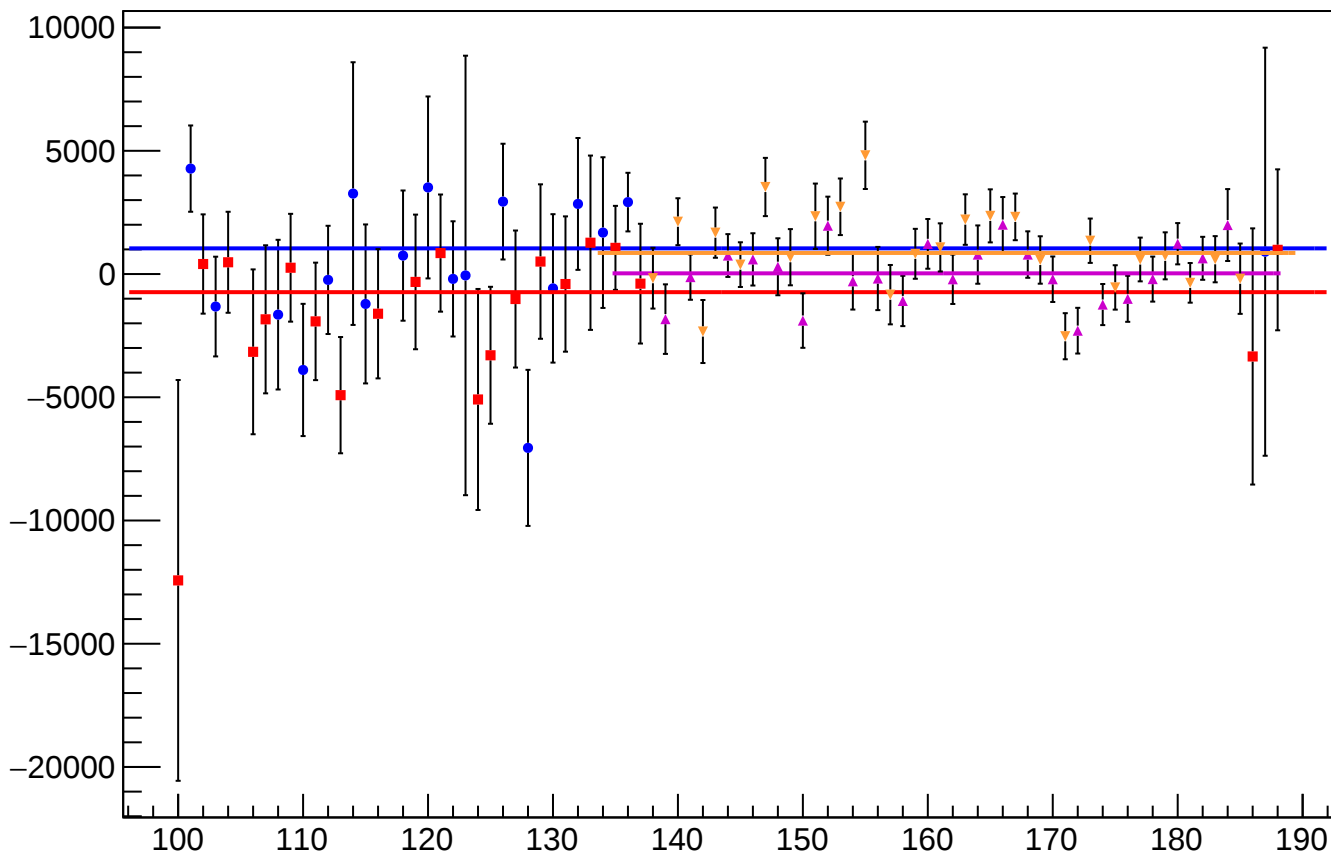
Right: 1542.455 $\pm$ 0.290 χ^2 /NDF: 1778964.5/38

In: 938.974 $\pm$ 0.140 χ^2 /NDF: 3136641.5/40

Out: 949.483 $\pm$ 0.136 χ^2 /NDF: 4677643.1/45

All: 944.369 $\pm$ 0.097 χ^2 /NDF: 7817188.1/86

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1041.809+/-584.255 χ^2/NDF : 21.2/17

Left Out: 855.664+/-205.047 χ^2/NDF : 54.1/24

Right Out: -735.480+/-578.416 χ^2/NDF : 11.5/20

Left In: 28.553+/-211.034 χ^2/NDF : 29.7/22

Left: 454.007+/-147.061 χ^2/NDF : 91.7/47

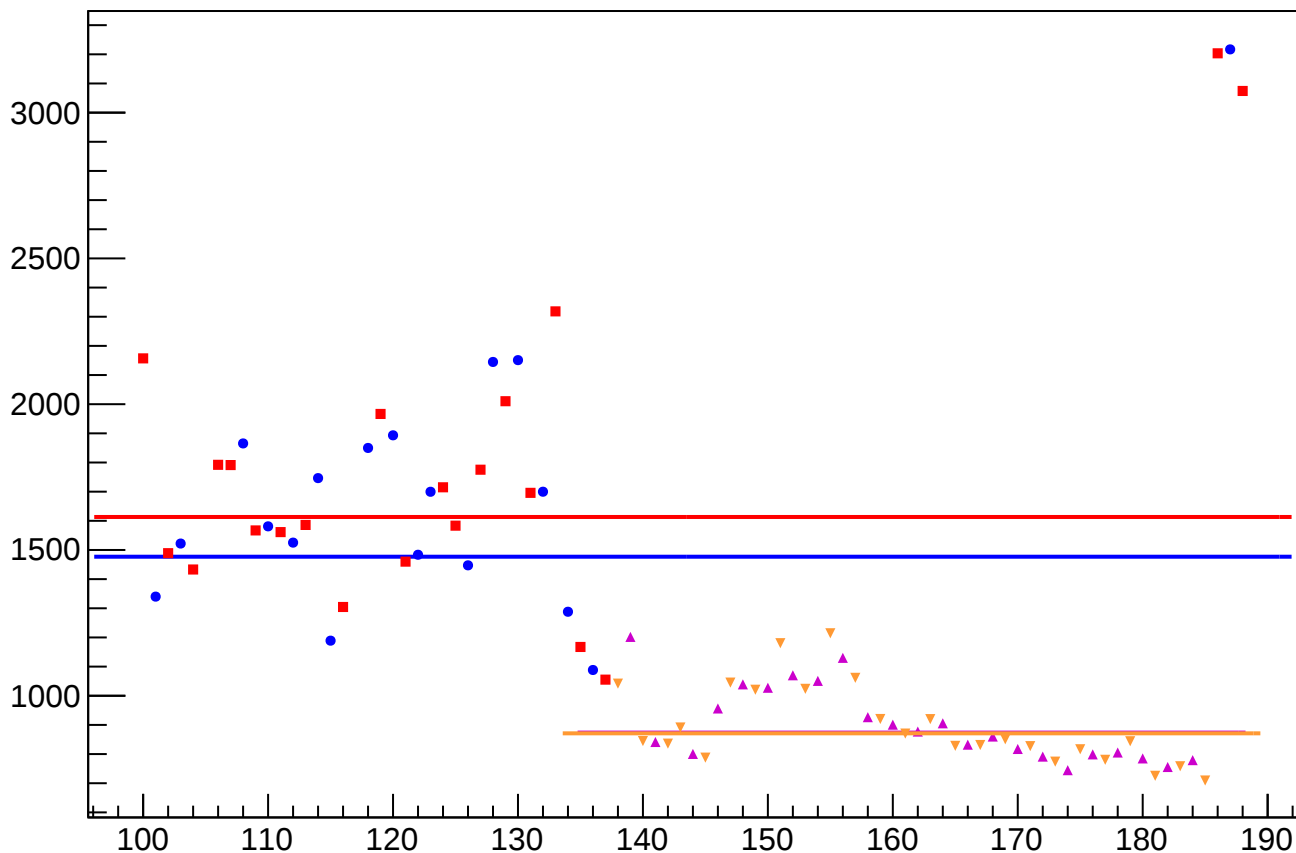
Right: 144.239+/-411.051 χ^2/NDF : 37.4/38

In: 145.492+/-198.483 χ^2/NDF : 53.6/40

Out: 678.031+/-193.263 χ^2/NDF : 72.3/45

All: 418.857+/-138.466 χ^2/NDF : 129.6/86

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1476.905 $\pm$ 0.413 χ^2 /NDF: 650690.0/17

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1613.196 $\pm$ 0.409 χ^2 /NDF: 1067880.7/20

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

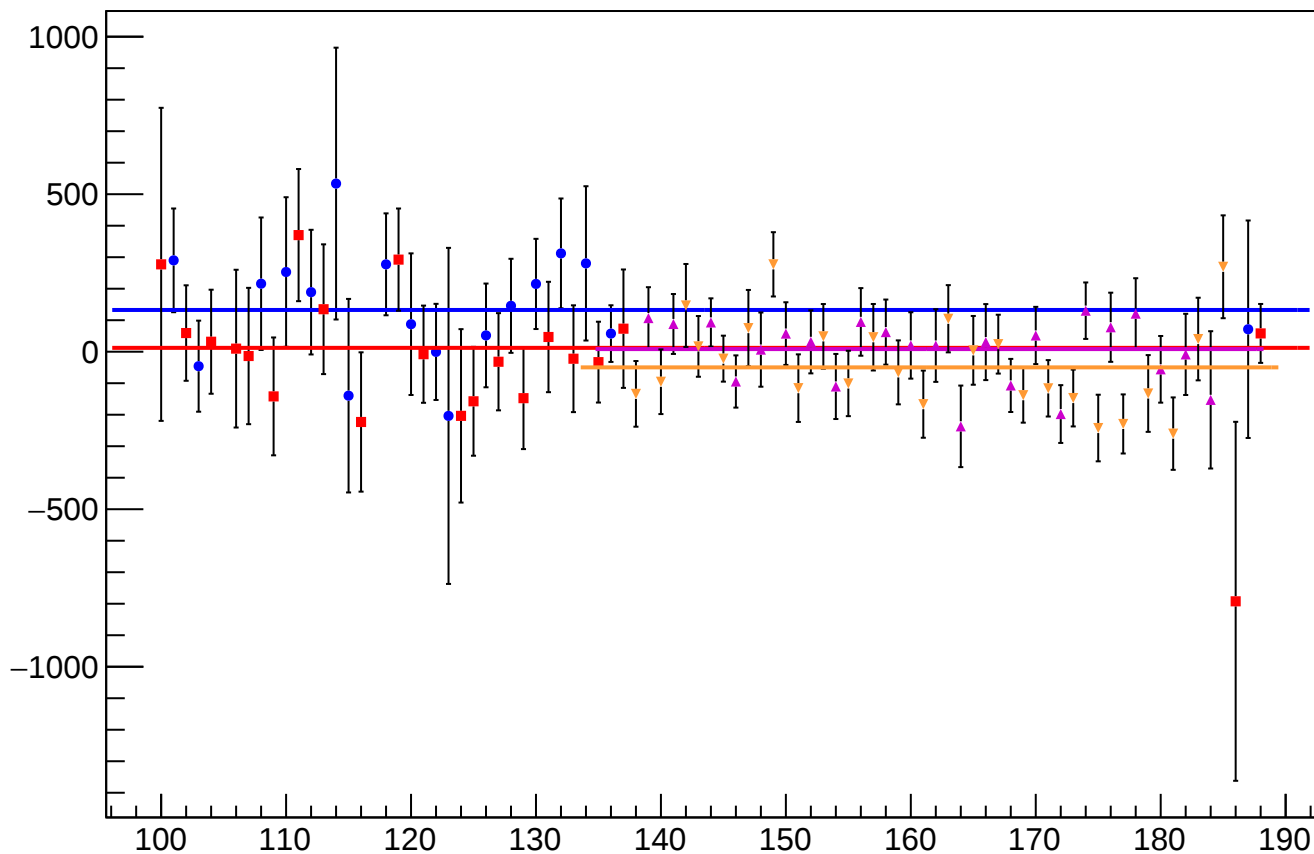
Right: 1545.735 $\pm$ 0.291 χ^2 /NDF: 1773533.6/38

In: 943.293 $\pm$ 0.140 χ^2 /NDF: 3110472.6/40

Out: 953.955 $\pm$ 0.137 χ^2 /NDF: 4644108.5/45

All: 948.766 $\pm$ 0.098 χ^2 /NDF: 7757543.1/86

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 132.516 $\pm$ 41.404 χ^2/NDF : 9.3/17

Left Out: -49.717 $\pm$ 20.580 χ^2/NDF :39.4/24

Right Out: 12.255 $\pm$ 37.857 χ^2/NDF : 13.7/20

Left In: 8.343 $\pm$ 21.271 χ^2/NDF :22.0/22

Left: -21.646 $\pm$ 14.791 χ^2/NDF : 65.3/47

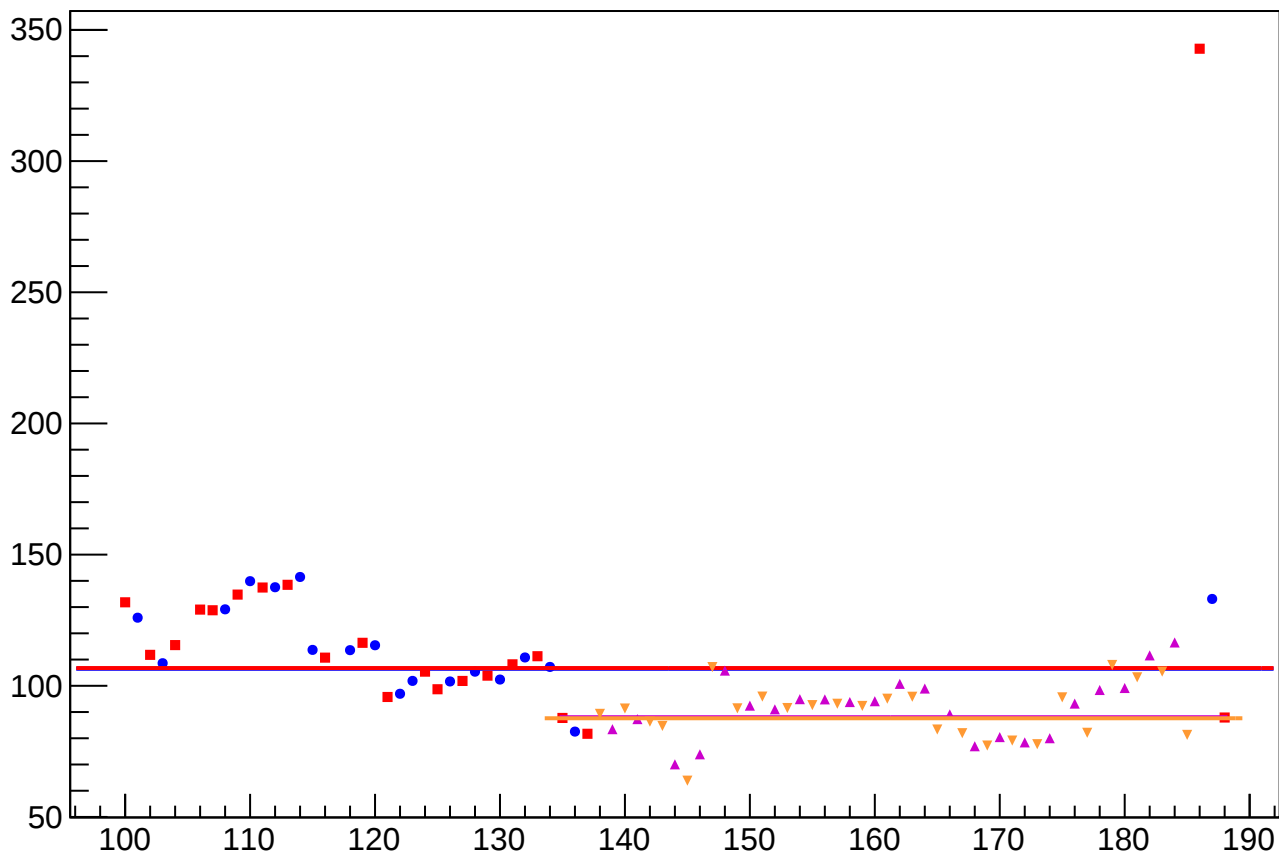
Right: 67.015 $\pm$ 27.939 χ^2/NDF : 27.6/38

In: 34.273 $\pm$ 18.920 χ^2/NDF :38.4/40

Out: -35.580 $\pm$ 18.081 χ^2/NDF :55.1/45

All: -2.237 $\pm$ 13.072 χ^2/NDF : 100.7/86

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 106.482 $\pm$ 0.029 χ^2 /NDF: 328177.9/17

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 106.764 $\pm$ 0.027 χ^2 /NDF: 715227.1/20

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

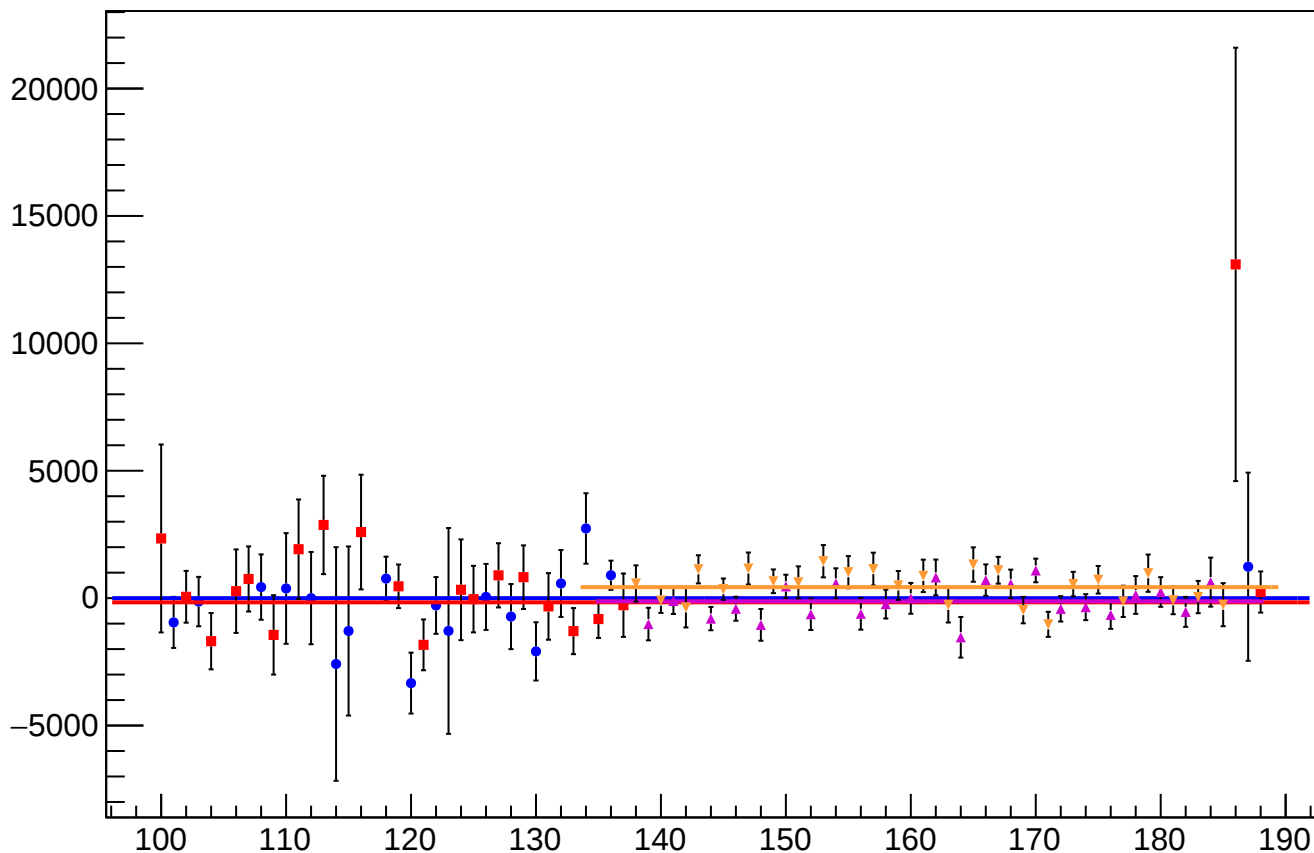
Right: 106.636 $\pm$ 0.020 χ^2 /NDF: 1043455.7/38

In: 91.885 $\pm$ 0.013 χ^2 /NDF: 1166099.3/40

Out: 91.991 $\pm$ 0.013 χ^2 /NDF: 1664488.9/45

All: 91.941 $\pm$ 0.009 χ^2 /NDF: 2830621.2/86

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -0.982 ± 283.426 $\chi^2/\text{NDF}: 20.6/17$

Left Out: 431.658 ± 115.706 $\chi^2/\text{NDF}: 30.5/24$

Right Out: -164.701 ± 264.537 $\chi^2/\text{NDF}: 18.6/20$

Left In: -123.017 ± 118.849 $\chi^2/\text{NDF}: 29.3/22$

Left: 161.753 ± 82.905 $\chi^2/\text{NDF}: 70.9/47$

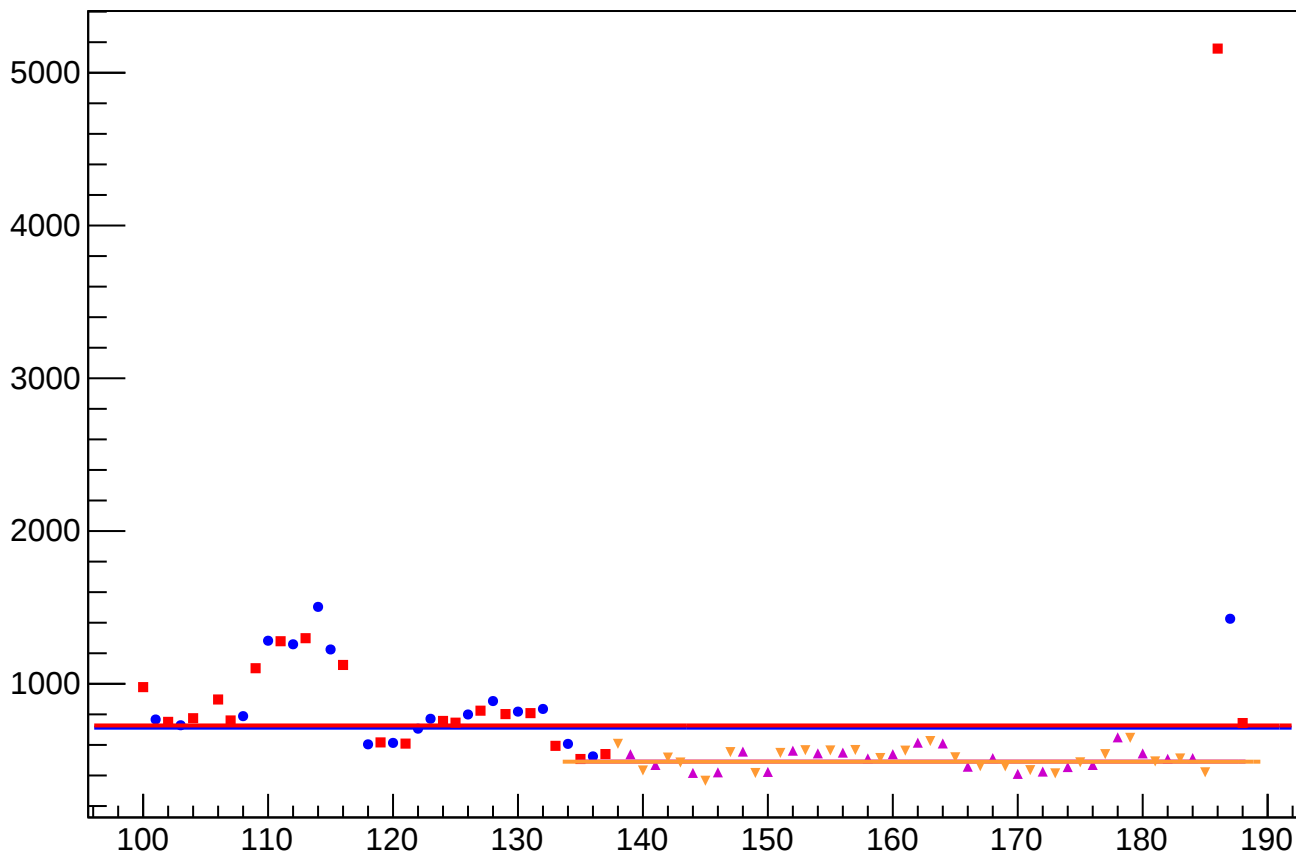
Right: -88.478 ± 193.389 $\chi^2/\text{NDF}: 39.4/38$

In: -104.767 ± 109.603 $\chi^2/\text{NDF}: 50.1/40$

Out: 335.890 ± 106.009 $\chi^2/\text{NDF}: 53.3/45$

All: 122.905 ± 76.199 $\chi^2/\text{NDF}: 111.7/86$

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 713.044+/-0.200 χ^2/NDF : 868468.8/17

Left Out: 490.267+/-0.082 χ^2/NDF : 750277.0/24

Right Out: 727.395+/-0.187 χ^2/NDF : 1446428.4/20

Left In: 490.910+/-0.084 χ^2/NDF : 589235.5/22

Left: 490.580+/-0.059 χ^2/NDF : 1339542.5/47

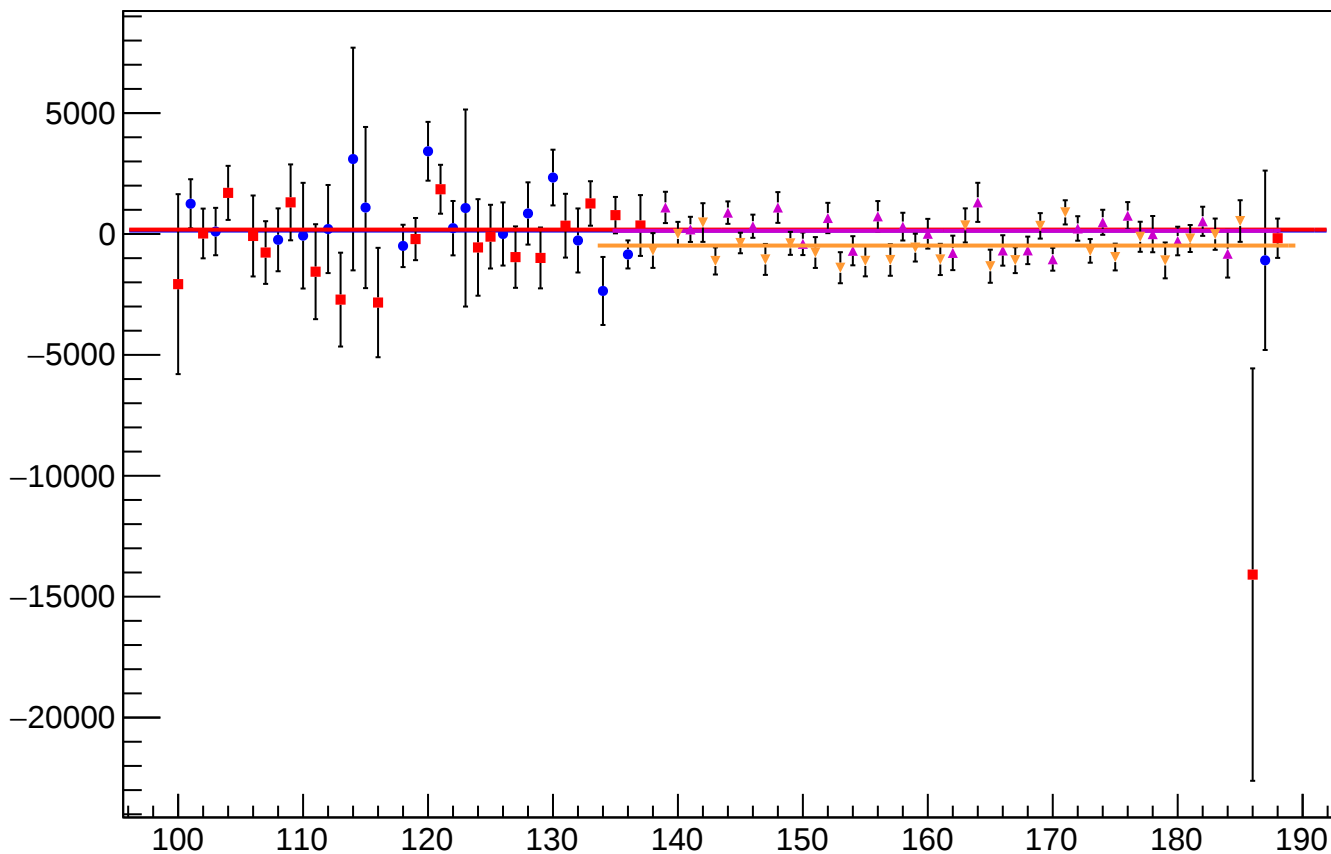
Right: 720.713+/-0.137 χ^2/NDF : 2317637.4/38

In: 524.128+/-0.078 χ^2/NDF : 2502505.5/40

Out: 528.347+/-0.075 χ^2/NDF : 3545659.4/45

All: 526.308+/-0.054 χ^2/NDF : 6049695.6/86

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 141.717 $\pm$ 286.887 χ^2 /NDF: 19.8/17

Left Out: -478.197 $\pm$ 117.659 χ^2 /NDF:27.8/24

Right Out: 181.909 $\pm$ 267.808 χ^2 /NDF: 17.9/20

Left In: 132.543 $\pm$ 120.866 χ^2 /NDF:29.5/22

Left: -181.037 $\pm$ 84.308 χ^2 /NDF: 70.5/47

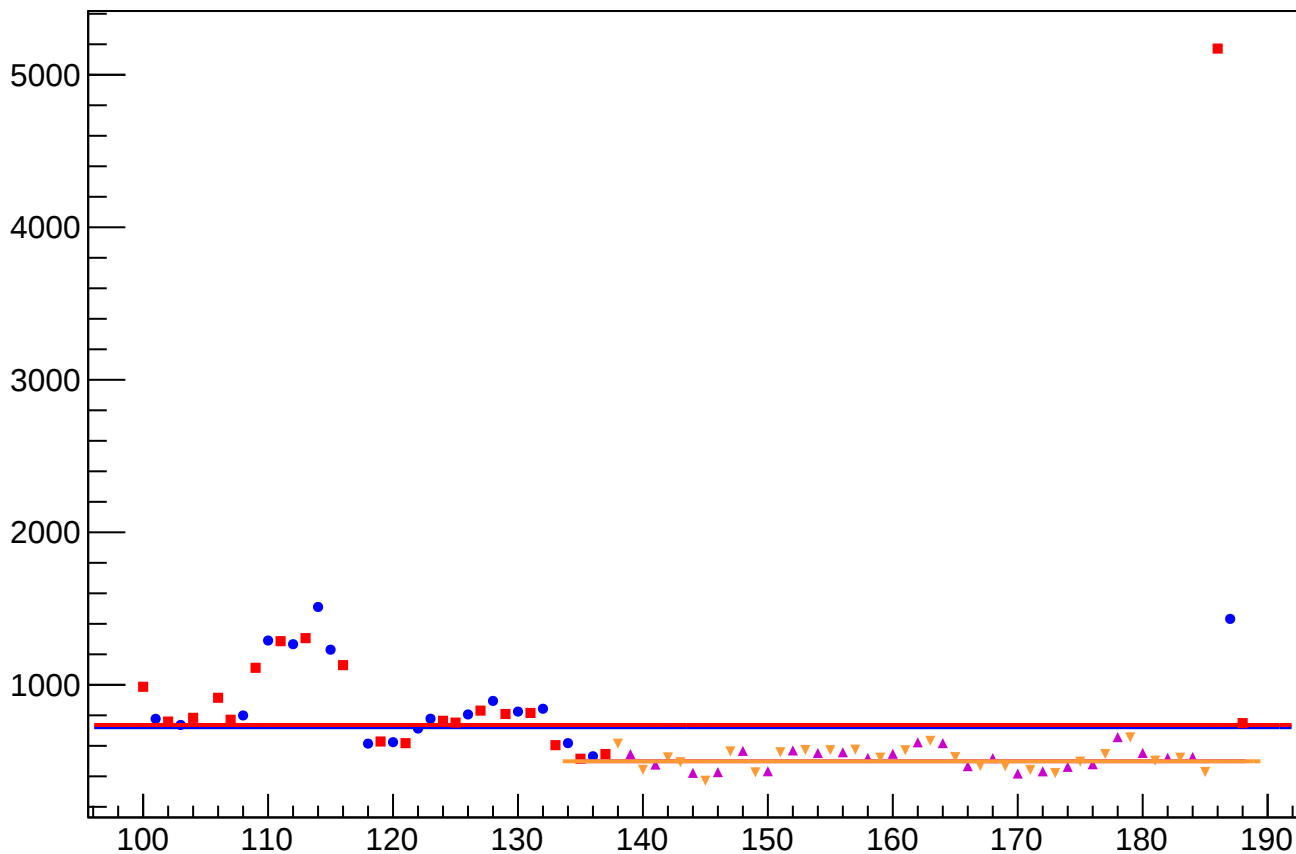
Right: 163.194 $\pm$ 195.767 χ^2 /NDF: 37.8/38

In: 133.926 $\pm$ 111.385 χ^2 /NDF:49.4/40

Out: -371.397 $\pm$ 107.721 χ^2 /NDF:50.8/45

All: -127.182 $\pm$ 77.433 χ^2 /NDF: 110.8/86

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 722.287 $\pm$ 0.203 χ^2 /NDF: 852203.9/17

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 736.928 $\pm$ 0.189 χ^2 /NDF: 1425931.4/20

Left In: 499.393 $\pm$ 0.085 χ^2 /NDF: 576539.2/22

Left: 499.065 $\pm$ 0.060 χ^2 /NDF: 1310870.7/47

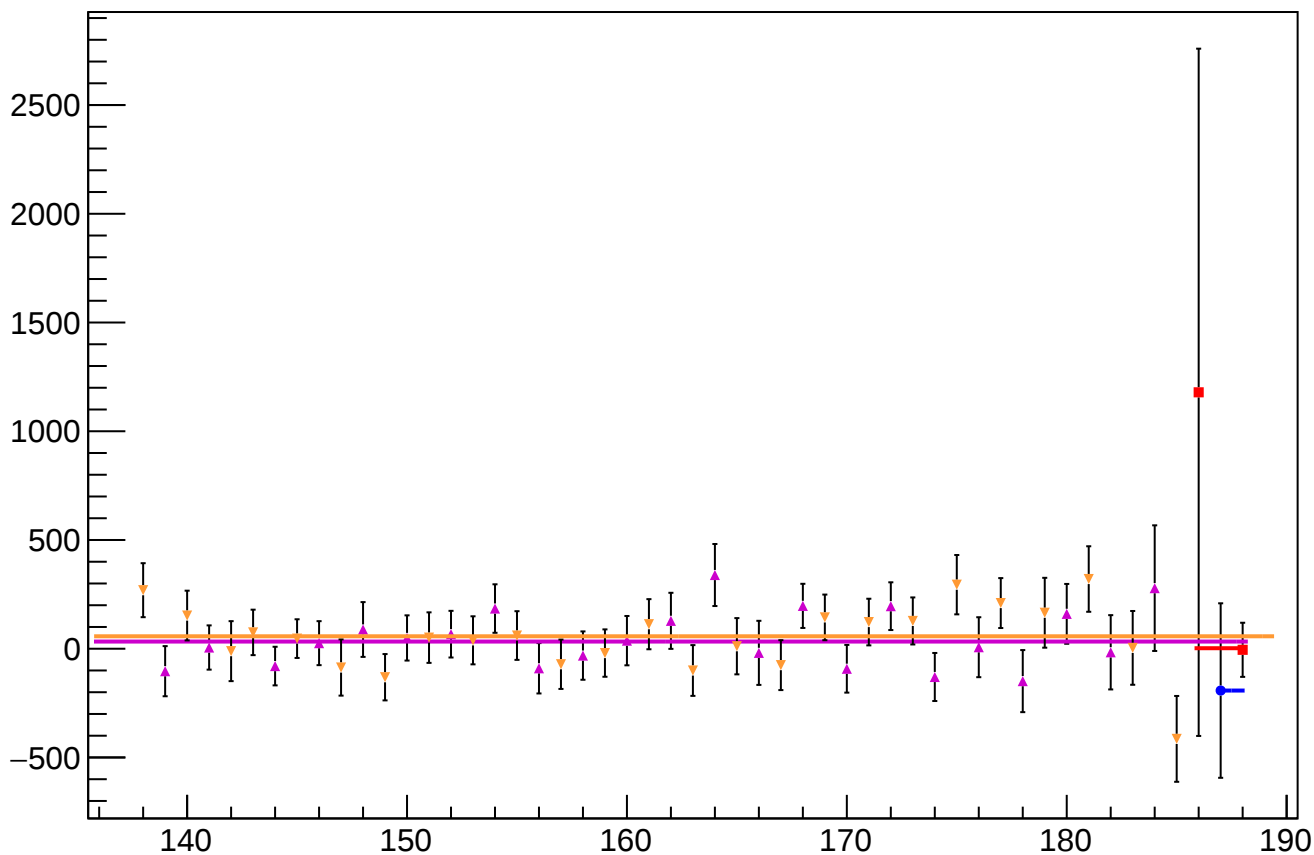
Right: 730.110 $\pm$ 0.138 χ^2 /NDF: 2280918.6/38

In: 532.992 $\pm$ 0.079 χ^2 /NDF: 2454025.9/40

Out: 537.289 $\pm$ 0.076 χ^2 /NDF: 3486166.8/45

All: 535.212 $\pm$ 0.055 χ^2 /NDF: 5941730.7/86

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -192.333+/-401.193 χ^2/NDF : 0.0/0

Left Out: 57.211+/-23.714 χ^2/NDF :29.2/24

Right Out: 2.318+/-124.048 χ^2/NDF : 0.6/1

Left In: 32.948+/-24.587 χ^2/NDF :23.6/22

Left: 45.518+/-17.069 χ^2/NDF : 53.3/47

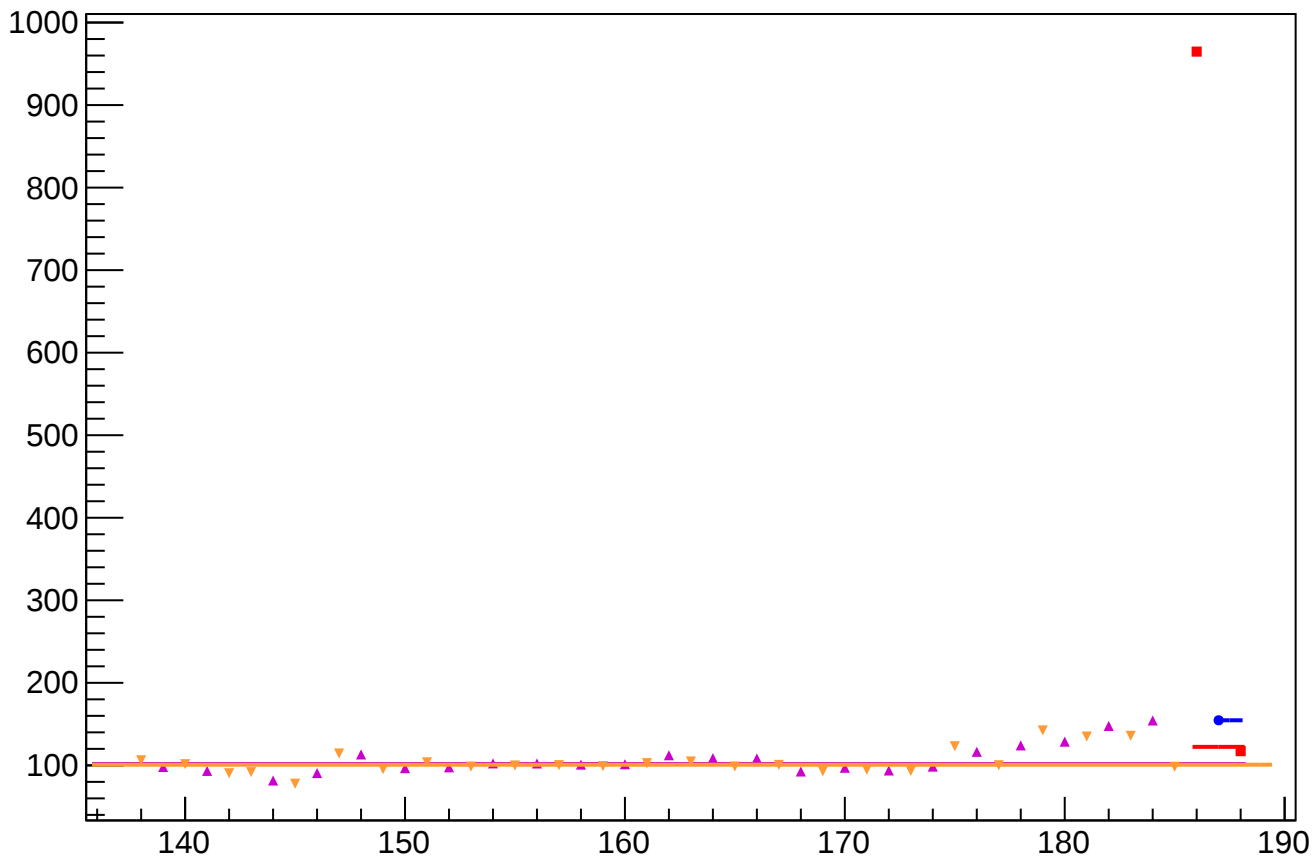
Right: -14.667+/-118.512 χ^2/NDF : 0.8/2

In: 32.105+/-24.541 χ^2/NDF :23.9/23

Out: 55.275+/-23.292 χ^2/NDF :29.9/26

All: 44.295+/-16.894 χ^2/NDF : 54.3/50

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 154.621 $\pm$ 0.284 χ^2 /NDF: 0.0/0

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 122.415 $\pm$ 0.088 χ^2 /NDF: 571920.0/1

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

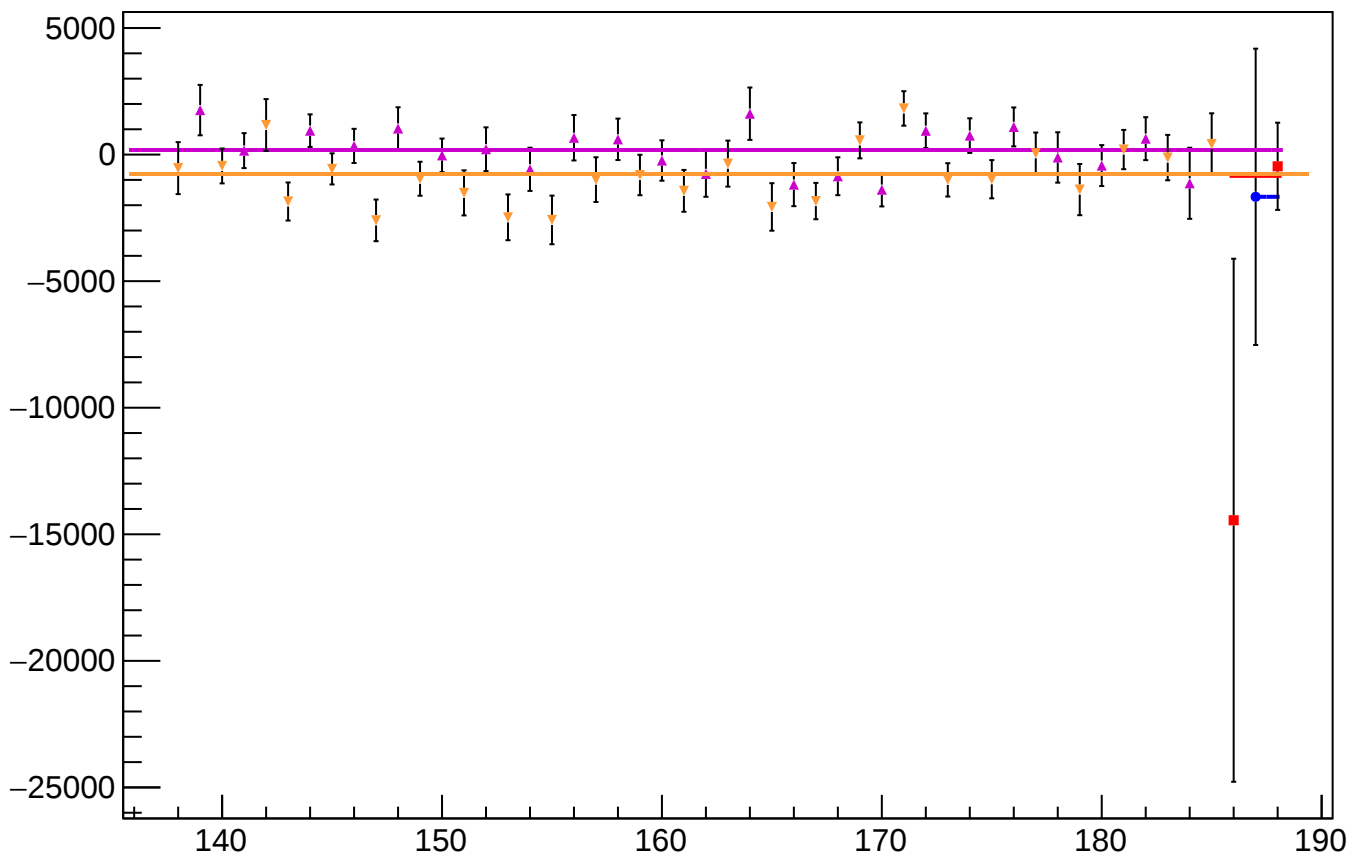
Right: 125.226 $\pm$ 0.084 χ^2 /NDF: 583683.3/2

In: 101.820 $\pm$ 0.017 χ^2 /NDF: 617101.4/23

Out: 101.563 $\pm$ 0.016 χ^2 /NDF: 1231004.1/26

All: 101.685 $\pm$ 0.012 χ^2 /NDF: 1848221.2/50

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1667.704 $\pm$ 5851.940 χ^2 /NDF: 0.0/0

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: -840.863 $\pm$ 1699.002 χ^2 /NDF: 1.8/1

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

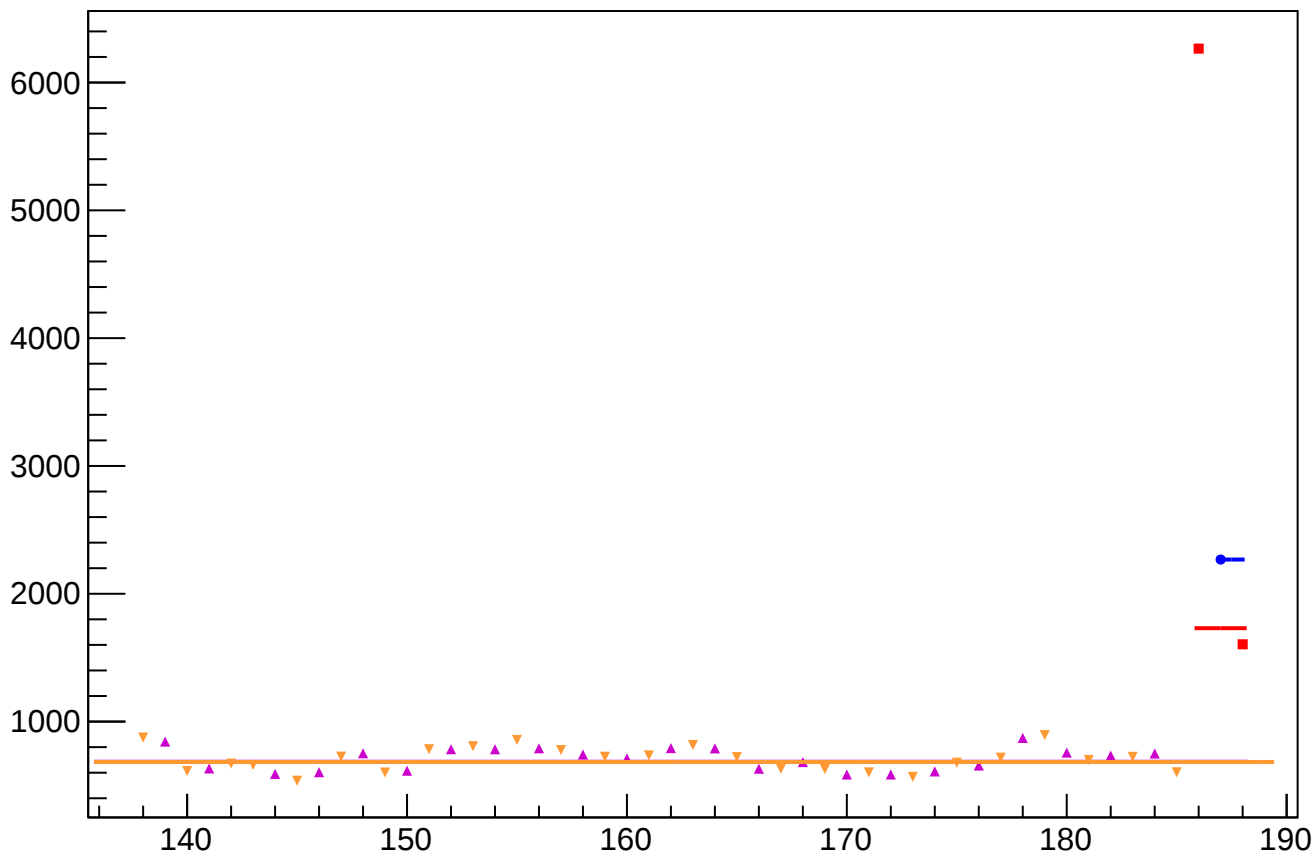
Right: -905.141 $\pm$ 1631.627 χ^2 /NDF: 1.8/2

In: 180.103 $\pm$ 165.604 χ^2 /NDF:25.1/23

Out: -767.021 $\pm$ 160.347 χ^2 /NDF:48.3/26

All: -308.731 $\pm$ 115.196 χ^2 /NDF: 90.3/50

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 2267.876 $\pm$ 4.138 χ^2 /NDF: 0.0/0

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1730.712 $\pm$ 1.201 χ^2 /NDF: 396004.6/1

Left In: 685.593 $\pm$ 0.117 χ^2 /NDF: 529353.6/22

Left: 684.715 $\pm$ 0.082 χ^2 /NDF: 1196621.1/47

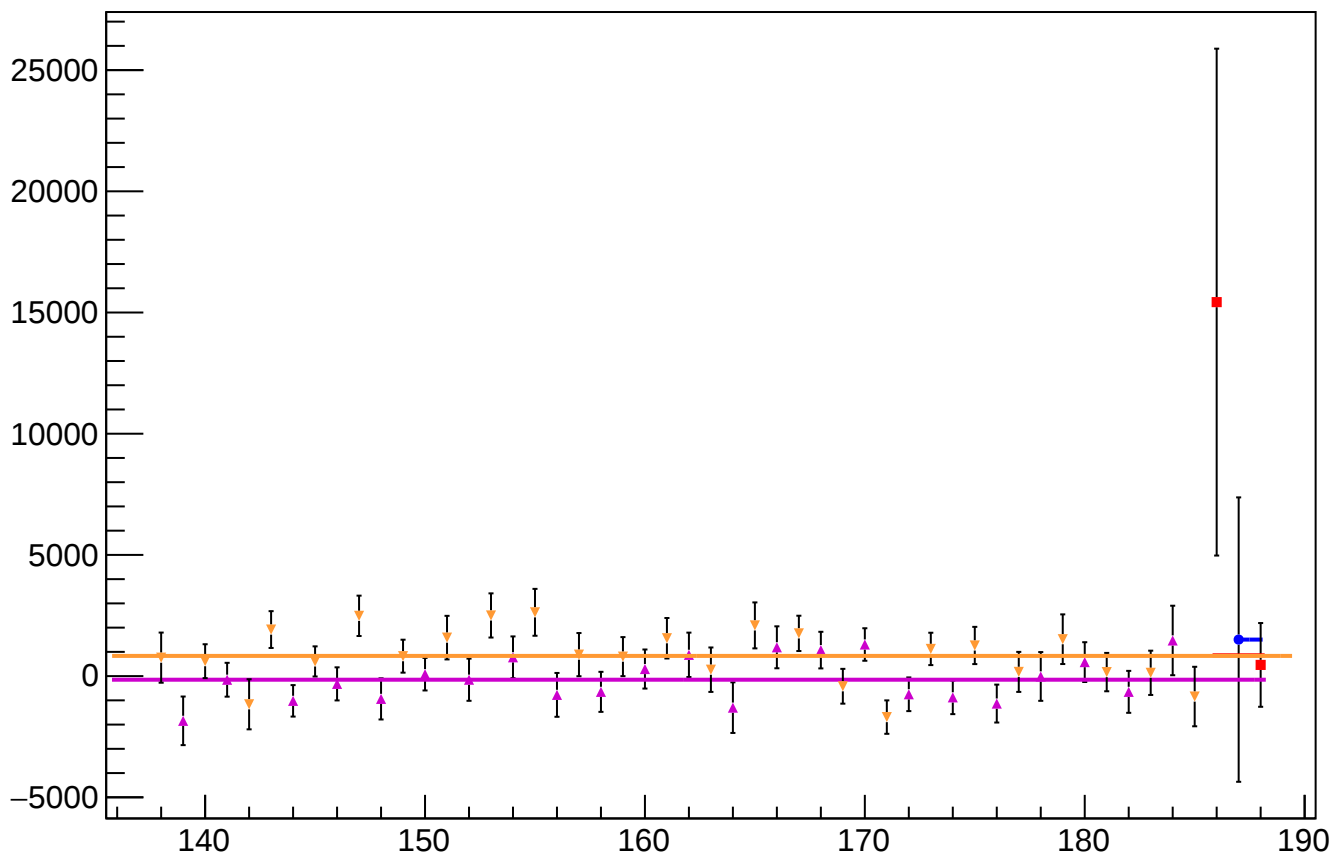
Right: 1772.471 $\pm$ 1.154 χ^2 /NDF: 411546.2/2

In: 686.860 $\pm$ 0.117 χ^2 /NDF: 675453.9/23

Out: 693.209 $\pm$ 0.113 χ^2 /NDF: 1815663.8/26

All: 690.137 $\pm$ 0.081 χ^2 /NDF: 2492634.7/50

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1506.366 $\pm$ 5866.523 χ^2 /NDF: 0.0/0

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: 859.557 $\pm$ 1704.448 χ^2 /NDF: 2.0/1

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

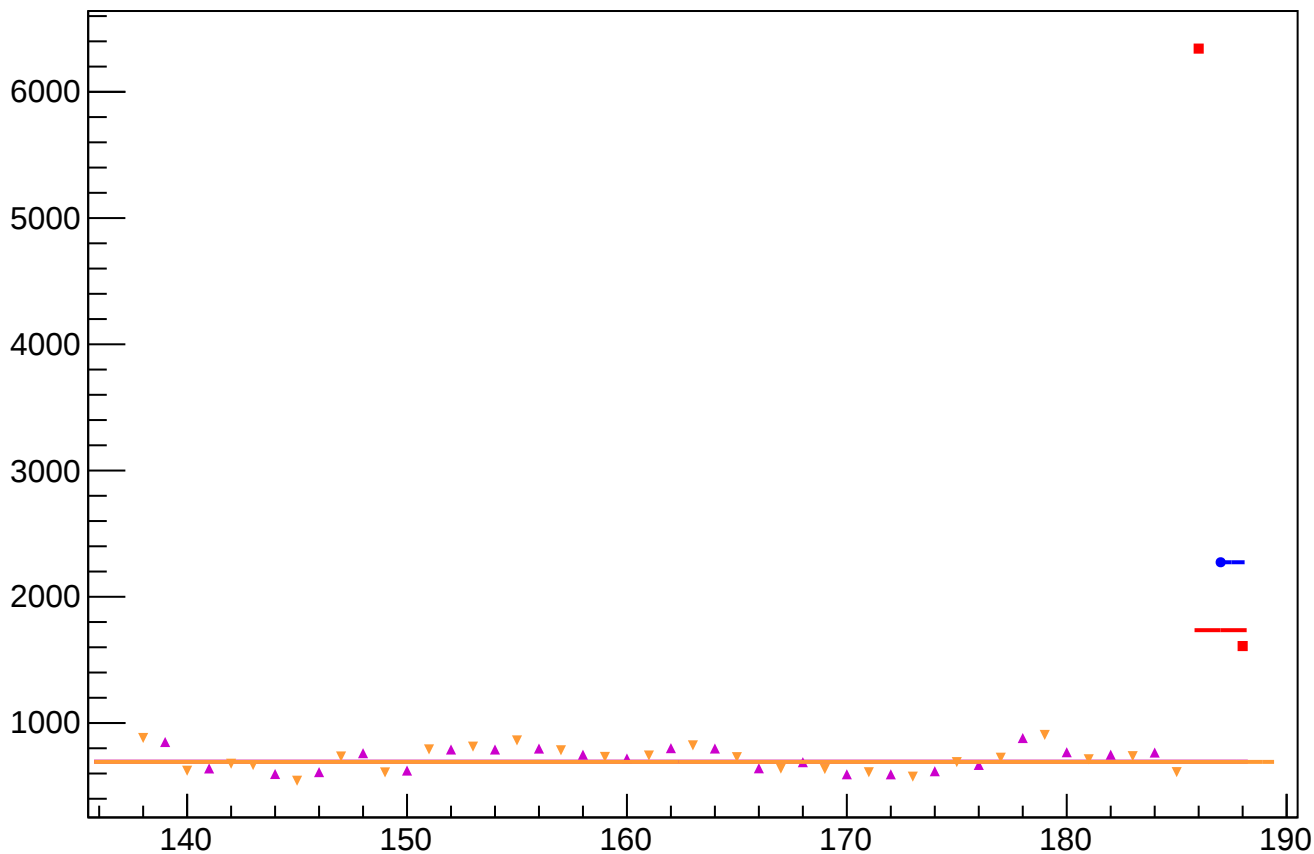
Right: 909.906 $\pm$ 1636.765 χ^2 /NDF: 2.0/2

In: -147.463 $\pm$ 167.576 χ^2 /NDF:26.1/23

Out: 833.632 $\pm$ 162.225 χ^2 /NDF:45.2/26

All: 358.997 $\pm$ 116.556 χ^2 /NDF: 89.0/50

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 2273.510 $\pm$ 4.148 χ^2 /NDF: 0.0/0

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1735.456 $\pm$ 1.205 χ^2 /NDF: 398901.0/1

Left In: 693.867 $\pm$ 0.119 χ^2 /NDF: 522053.5/22

Left: 692.957 $\pm$ 0.083 χ^2 /NDF: 1179427.7/47

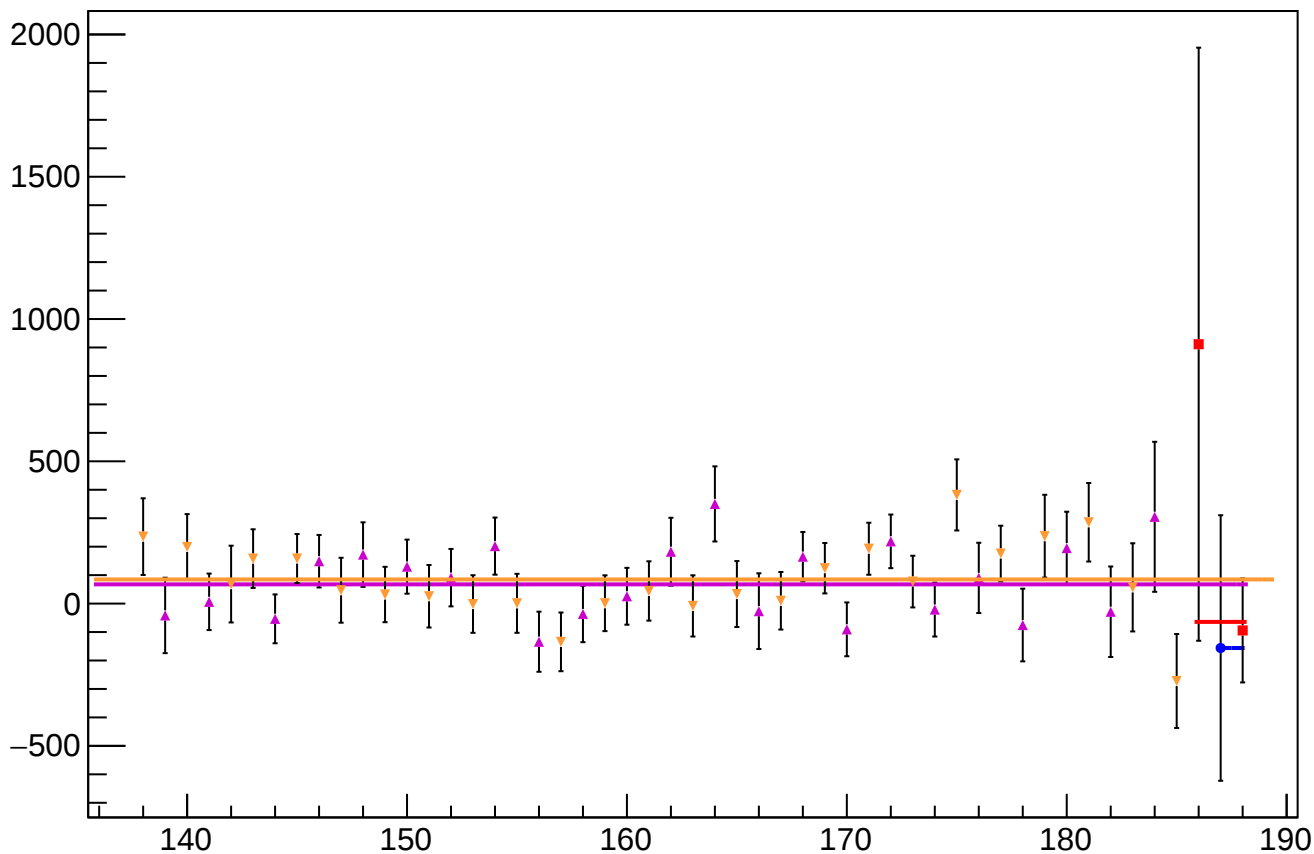
Right: 1777.339 $\pm$ 1.157 χ^2 /NDF: 414415.1/2

In: 695.156 $\pm$ 0.118 χ^2 /NDF: 666941.3/23

Out: 701.548 $\pm$ 0.115 χ^2 /NDF: 1798800.8/26

All: 698.456 $\pm$ 0.082 χ^2 /NDF: 2467244.5/50

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -156.105 $\pm$ 466.644 χ^2 /NDF: 0.0/0

Left Out: 84.860 $\pm$ 21.643 χ^2 /NDF:28.5/24

Right Out: -64.322 $\pm$ 180.011 χ^2 /NDF: 0.9/1

Left In: 67.552 $\pm$ 22.449 χ^2 /NDF:28.9/22

Left: 76.522 $\pm$ 15.581 χ^2 /NDF: 57.7/47

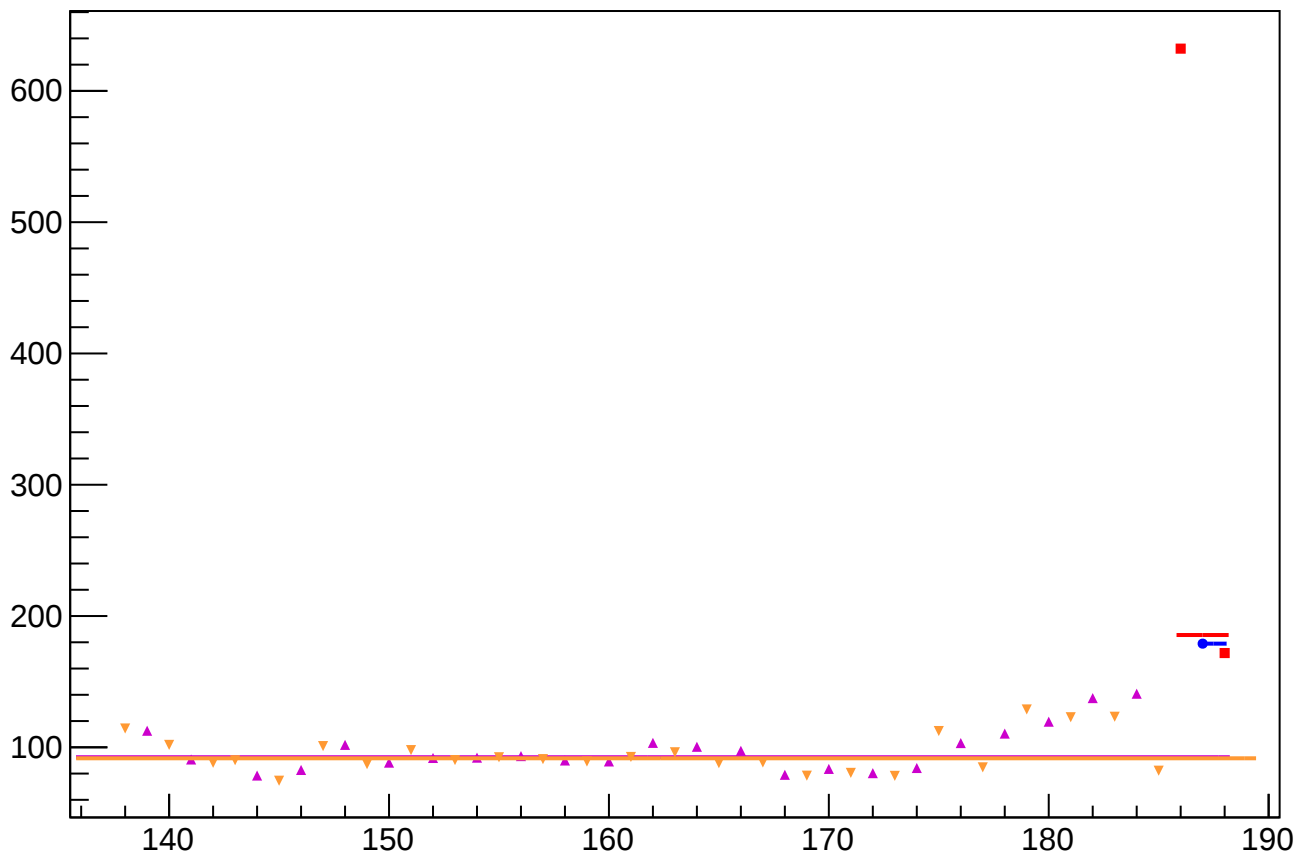
Right: -76.211 $\pm$ 167.948 χ^2 /NDF: 0.9/2

In: 67.036 $\pm$ 22.423 χ^2 /NDF:29.1/23

Out: 82.734 $\pm$ 21.488 χ^2 /NDF:30.1/26

All: 75.219 $\pm$ 15.514 χ^2 /NDF: 59.4/50

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 178.963 $\pm$ 0.330 χ^2 /NDF: 0.0/0

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF:693122.0/24

Right Out: 185.539 $\pm$ 0.127 χ^2 /NDF: 378714.5/1

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

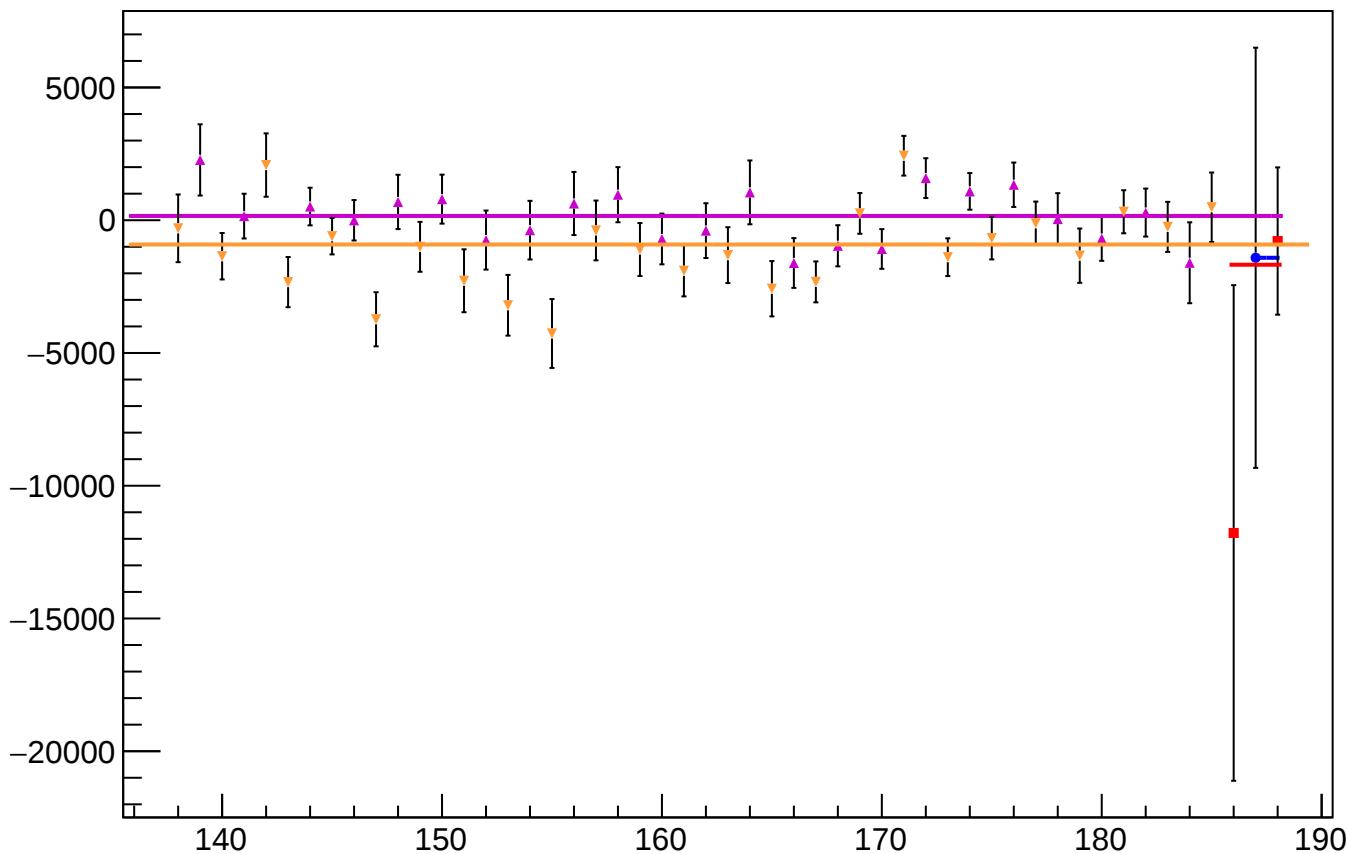
Right: 184.687 $\pm$ 0.119 χ^2 /NDF: 379060.3/2

In: 92.666 $\pm$ 0.016 χ^2 /NDF:724257.7/23

Out: 92.971 $\pm$ 0.015 χ^2 /NDF:1608362.1/26

All: 92.825 $\pm$ 0.011 χ^2 /NDF: 2332812.9/50

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Left: -388.730 ± 132.499 $\chi^2/\text{NDF}: 105.7/47$

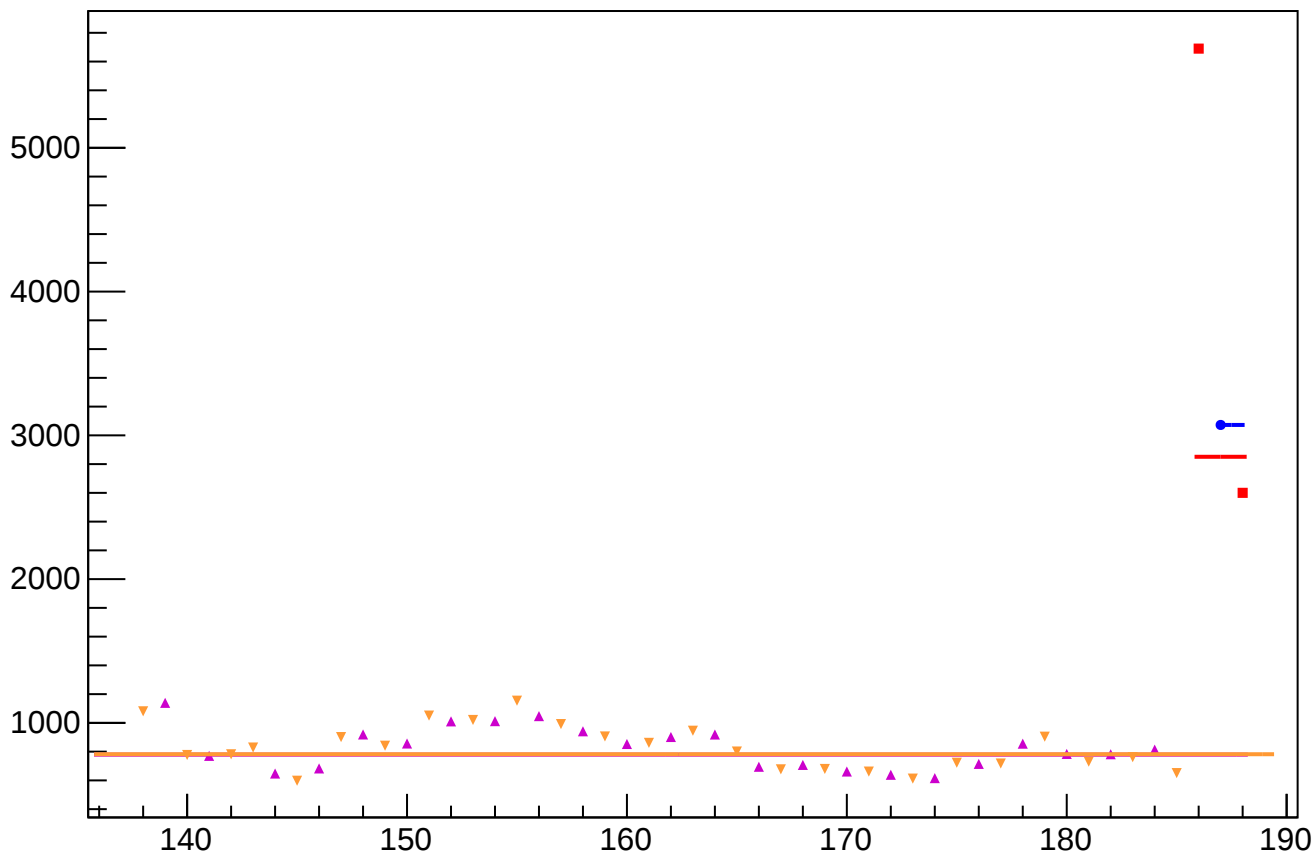
Right: -1649.582 ± 2520.653 $\chi^2/\text{NDF}: 1.3/2$

In: 160.174 ± 189.436 $\chi^2/\text{NDF}: 25.1/23$

Out: -918.400 ± 184.892 $\chi^2/\text{NDF}: 65.5/26$

All: -392.205 ± 132.316 $\chi^2/\text{NDF}: 107.2/50$

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 3072.444 $\pm$ 5.596 χ^2 /NDF: 0.0/0

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF:1130984.3/24

Right Out: 2850.957 $\pm$ 1.880 χ^2 /NDF: 201371.7/1

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

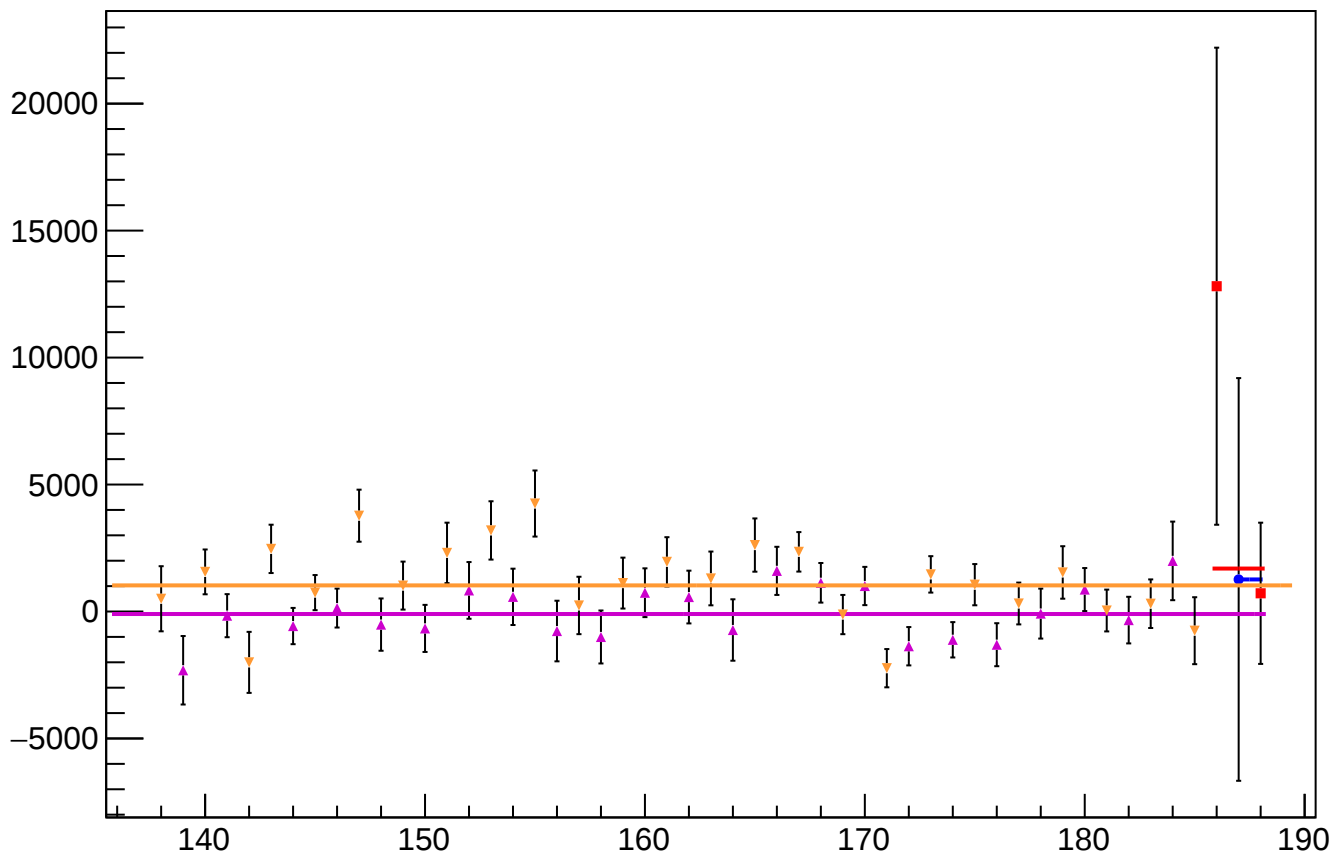
Right: 2873.429 $\pm$ 1.782 χ^2 /NDF: 202779.4/2

In: 780.309 $\pm$ 0.134 χ^2 /NDF:1148133.1/23

Out: 792.044 $\pm$ 0.131 χ^2 /NDF:2537176.0/26

All: 786.319 $\pm$ 0.094 χ^2 /NDF: 3689239.7/50

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1262.741 $\pm$ 7929.221 χ^2 /NDF: 0.0/0

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: 1691.647 $\pm$ 2666.559 χ^2 /NDF: 1.5/1

Left In: -98.691 $\pm$ 191.027 χ^2 /NDF:25.4/22

Left: 477.669 $\pm$ 133.561 χ^2 /NDF: 103.3/47

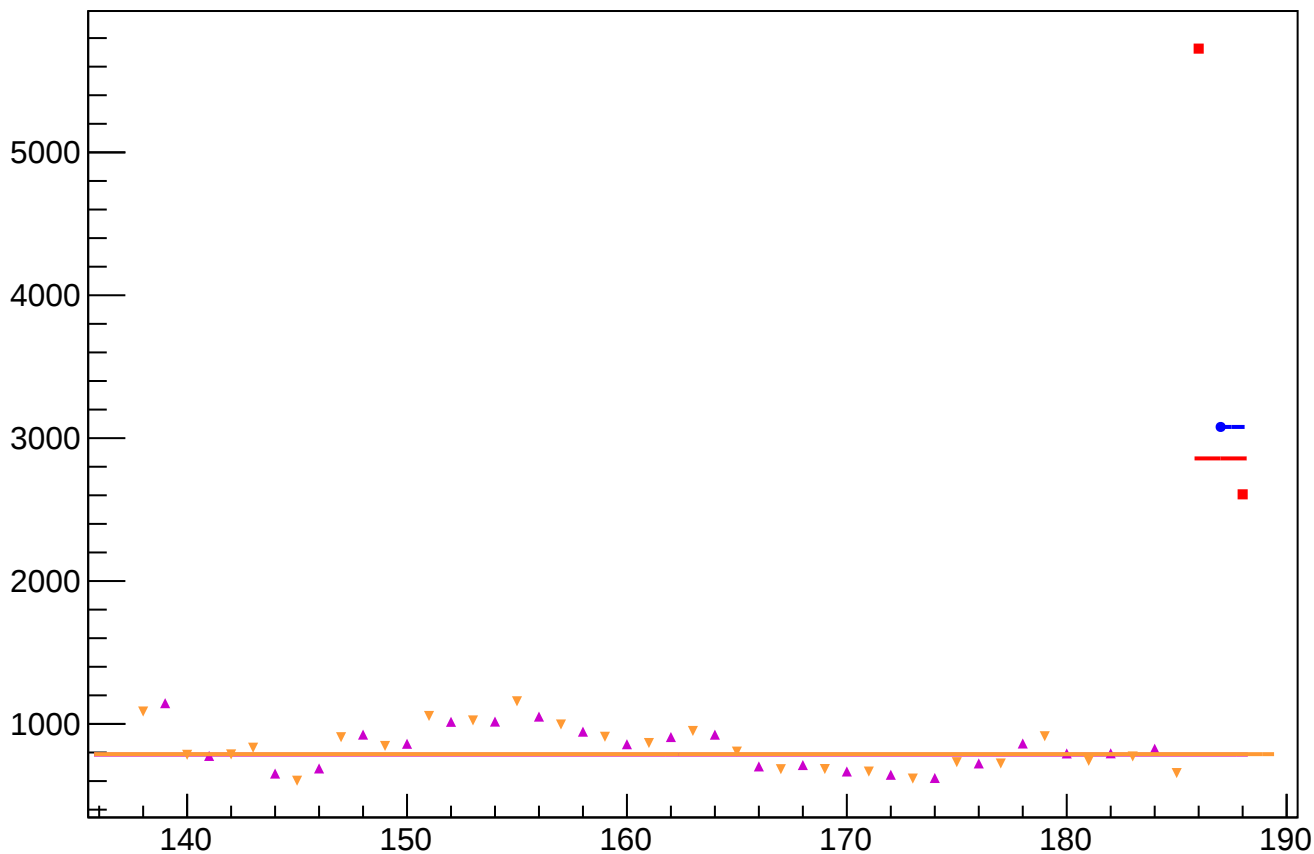
Right: 1648.068 $\pm$ 2527.465 χ^2 /NDF: 1.5/2

In: -97.901 $\pm$ 190.972 χ^2 /NDF:25.4/23

Out: 1032.101 $\pm$ 186.353 χ^2 /NDF:61.7/26

All: 480.928 $\pm$ 133.375 χ^2 /NDF: 105.1/50

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 3078.464 $\pm$ 5.607 χ^2 /NDF: 0.0/0

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF:1113741.6/24

Right Out: 2858.196 $\pm$ 1.886 χ^2 /NDF: 202769.9/1

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

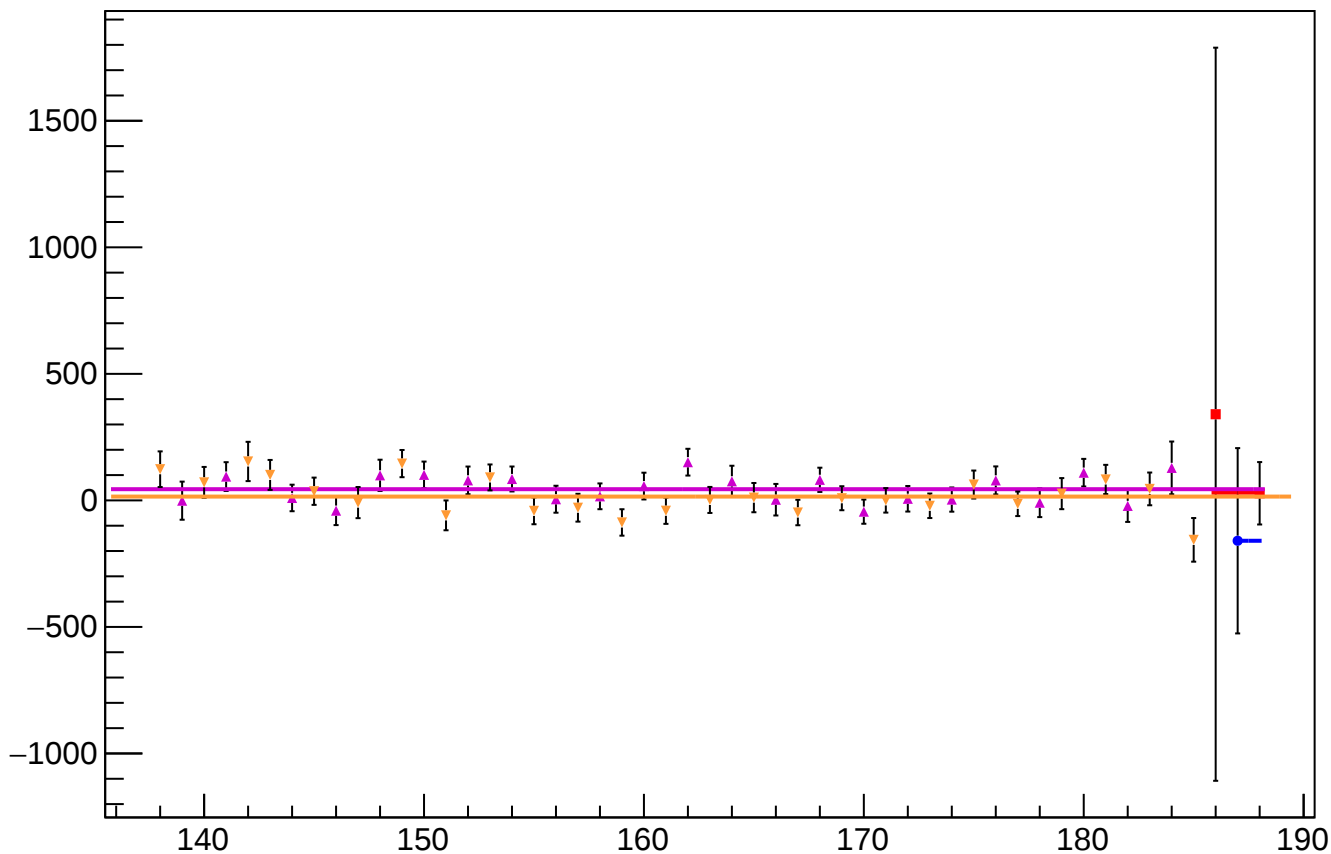
Right: 2880.576 $\pm$ 1.787 χ^2 /NDF: 204156.4/2

In: 786.820 $\pm$ 0.135 χ^2 /NDF:1132492.3/23

Out: 798.551 $\pm$ 0.132 χ^2 /NDF:2515565.3/26

All: 792.829 $\pm$ 0.094 χ^2 /NDF: 3651922.7/50

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: -159.537 $\pm$ 366.124 χ^2 /NDF: 0.0/0

Left Out: 15.099 $\pm$ 11.154 χ^2 /NDF:34.2/24

Right Out: 30.360 $\pm$ 122.858 χ^2 /NDF: 0.0/1

Left In: 44.297 $\pm$ 11.530 χ^2 /NDF:22.3/22

Left: 29.215 $\pm$ 8.017 χ^2 /NDF: 59.8/47

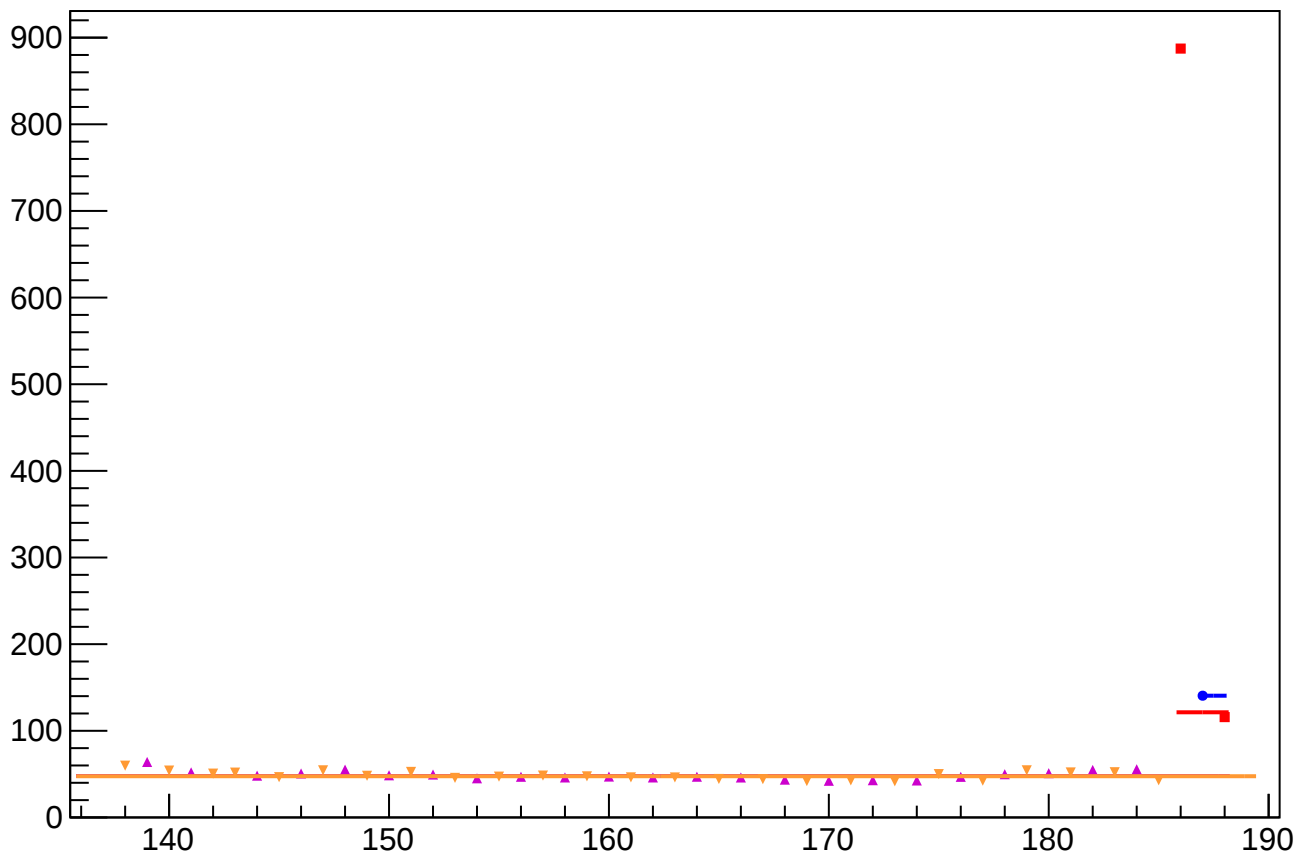
Right: 11.141 $\pm$ 116.475 χ^2 /NDF: 0.3/2

In: 44.095 $\pm$ 11.524 χ^2 /NDF:22.6/23

Out: 15.224 $\pm$ 11.109 χ^2 /NDF:34.3/26

All: 29.130 $\pm$ 7.998 χ^2 /NDF: 60.1/50

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 140.515 $\pm$ 0.259 χ^2 /NDF: 0.0/0

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF:312874.8/24

Right Out: 121.365 $\pm$ 0.087 χ^2 /NDF: 563398.3/1

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

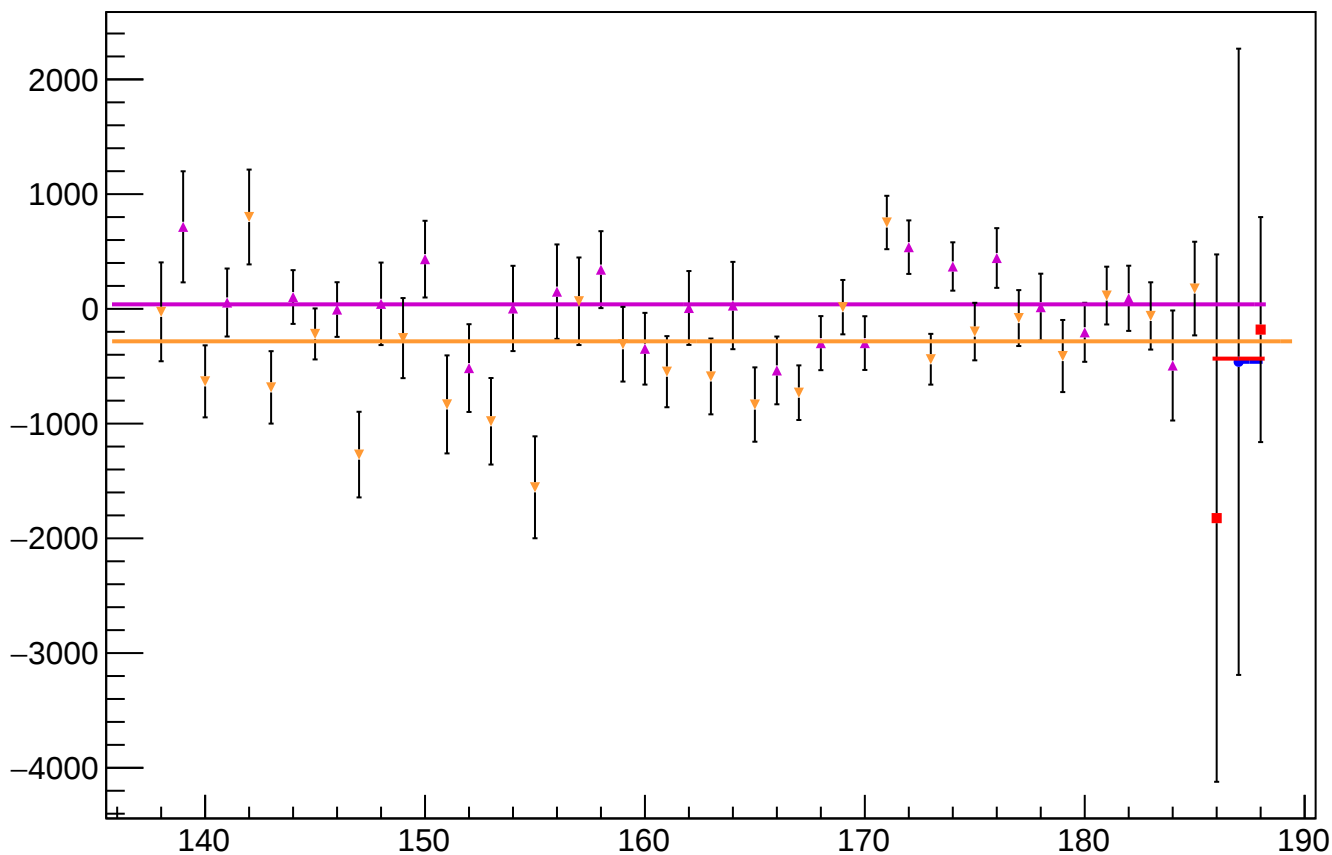
Right: 123.303 $\pm$ 0.082 χ^2 /NDF: 568315.9/2

In: 47.938 $\pm$ 0.008 χ^2 /NDF:409789.5/23

Out: 48.189 $\pm$ 0.008 χ^2 /NDF:1591628.8/26

All: 48.068 $\pm$ 0.006 χ^2 /NDF: 2001912.1/50

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -461.310 $\pm$ 2729.116 χ^2 /NDF: 0.0/0

Left Out: -282.798 $\pm$ 59.690 χ^2 /NDF:66.5/24

Right Out: -433.624 $\pm$ 901.865 χ^2 /NDF: 0.4/1

Left In: 39.432 $\pm$ 60.759 χ^2 /NDF:27.5/22

Left: -124.543 $\pm$ 42.580 χ^2 /NDF: 108.4/47

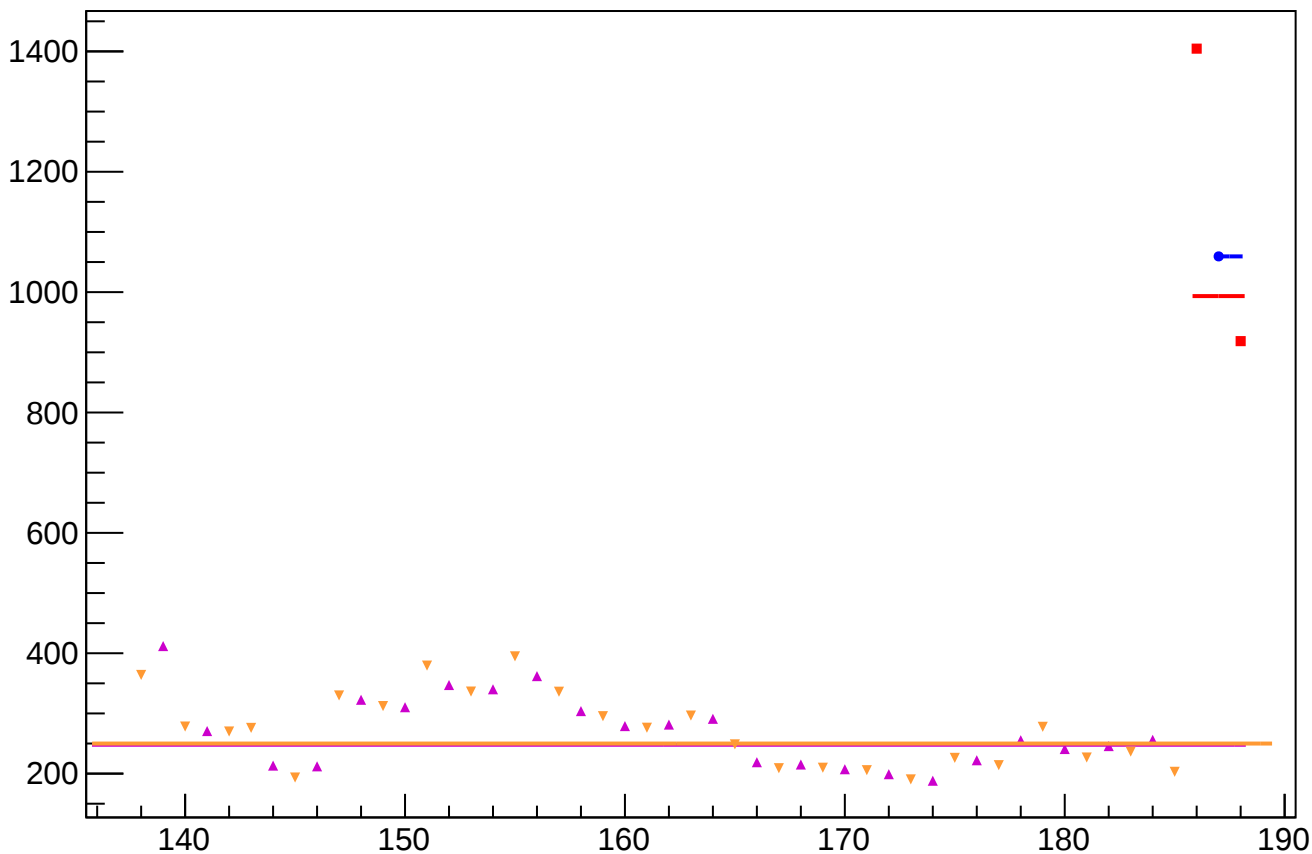
Right: -436.350 $\pm$ 856.319 χ^2 /NDF: 0.4/2

In: 39.184 $\pm$ 60.744 χ^2 /NDF:27.6/23

Out: -283.456 $\pm$ 59.559 χ^2 /NDF:67.0/26

All: -125.312 $\pm$ 42.527 χ^2 /NDF: 108.9/50

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 1059.391 $\pm$ 1.930 χ^2 /NDF: 0.0/0

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF:1614205.9/24

Right Out: 993.429 $\pm$ 0.638 χ^2 /NDF: 75654.7/1

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

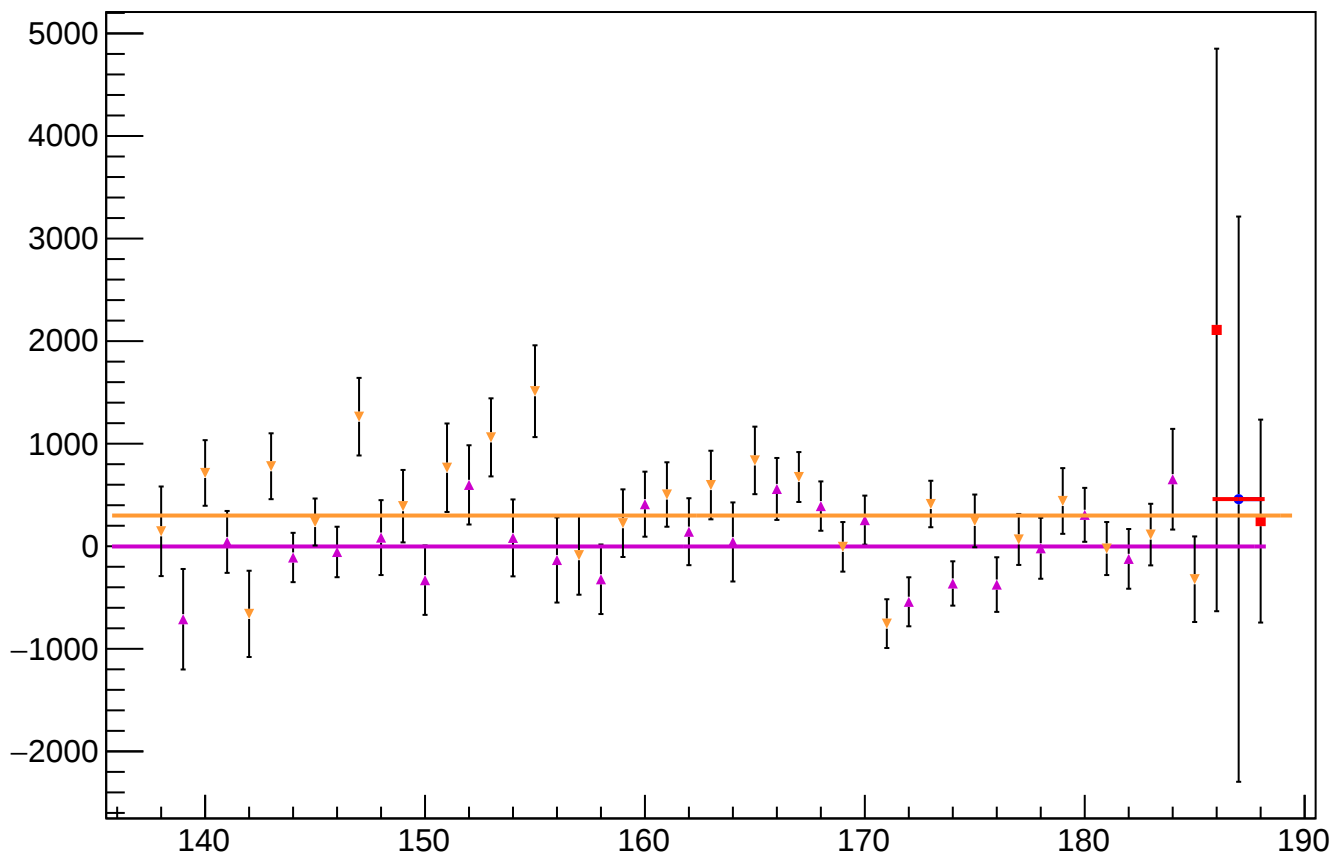
Right: 999.923 $\pm$ 0.606 χ^2 /NDF: 76708.0/2

In: 248.319 $\pm$ 0.043 χ^2 /NDF:1587581.6/23

Out: 253.199 $\pm$ 0.042 χ^2 /NDF:3043110.6/26

All: 250.807 $\pm$ 0.030 χ^2 /NDF: 4637273.5/50

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 459.027 $\pm$ 2755.597 χ^2 /NDF: 0.0/0

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: 459.865 $\pm$ 930.597 χ^2 /NDF: 0.4/1

Left In: -2.185 $\pm$ 62.005 χ^2 /NDF:29.2/22

Left: 151.501 $\pm$ 43.433 χ^2 /NDF: 103.7/47

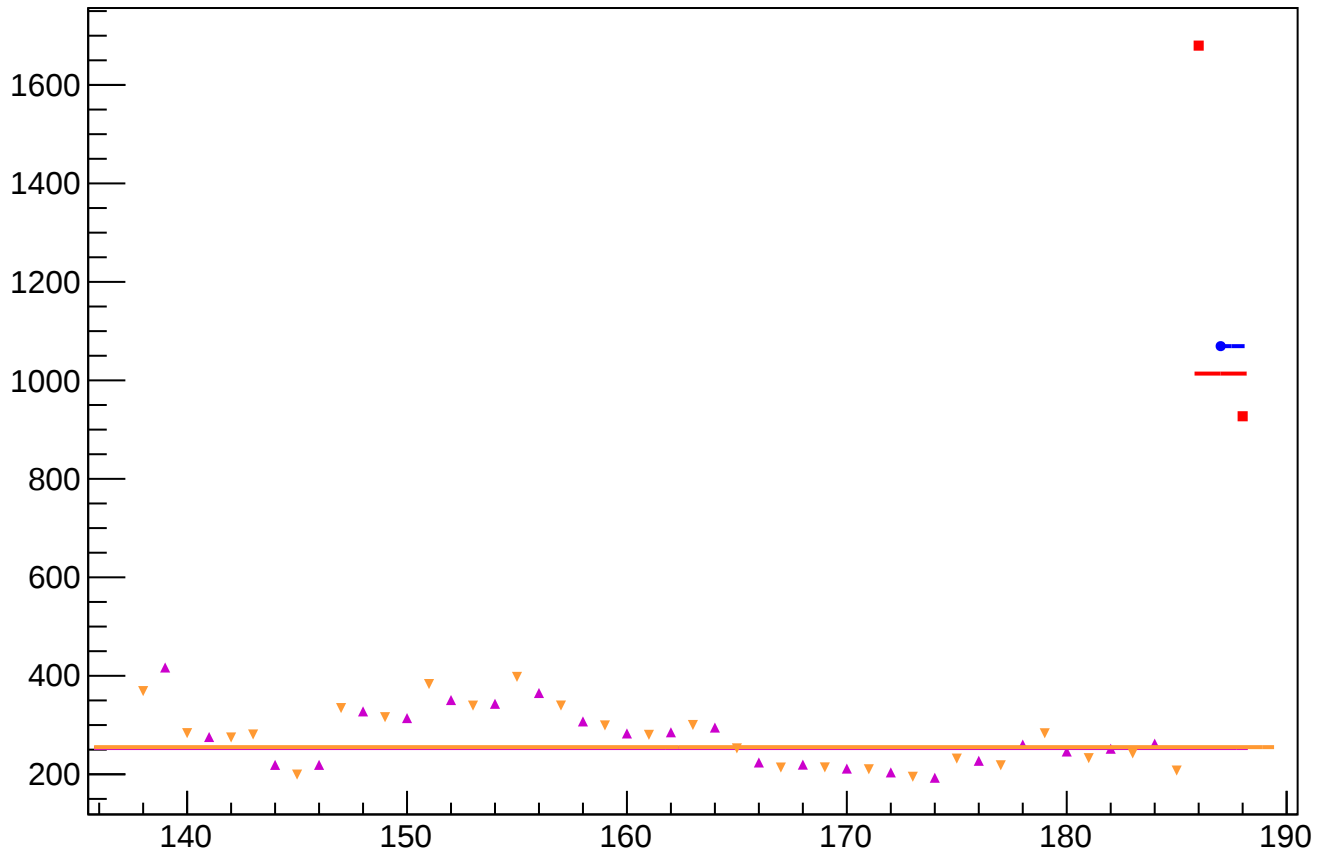
Right: 459.779 $\pm$ 881.677 χ^2 /NDF: 0.4/2

In: -1.952 $\pm$ 61.989 χ^2 /NDF:29.2/23

Out: 300.245 $\pm$ 60.730 χ^2 /NDF:62.9/26

All: 152.247 $\pm$ 43.381 χ^2 /NDF: 104.2/50

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 1069.513+/-1.949 χ^2/NDF : 0.0/0

Left Out: 255.135+/-0.043 χ^2/NDF :1542039.5/24

Right Out: 1013.781+/-0.658 χ^2/NDF : 133327.5/1

Left In: 253.287+/-0.044 χ^2/NDF :1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

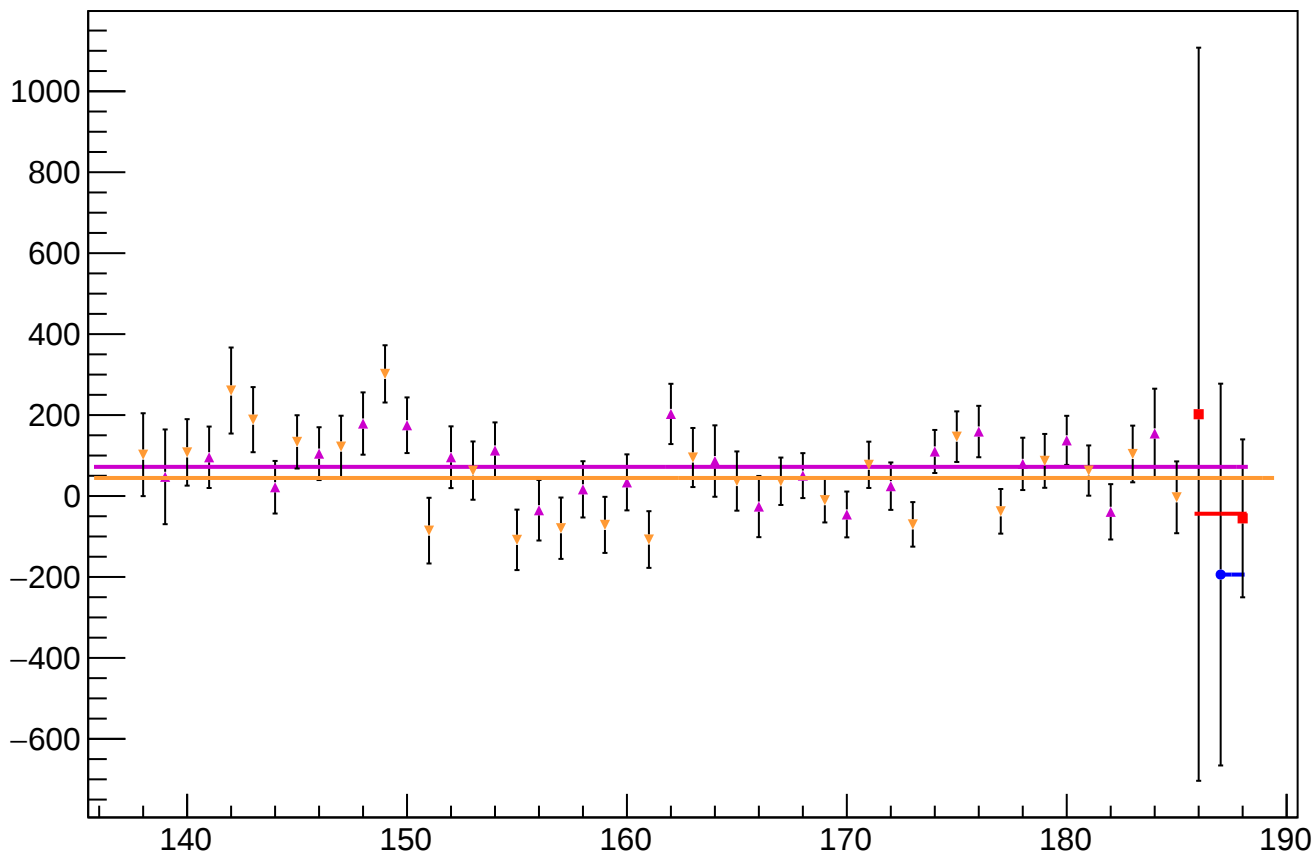
Right: 1019.486+/-0.623 χ^2/NDF : 134061.9/2

In: 253.700+/-0.044 χ^2/NDF :1517050.0/23

Out: 258.366+/-0.043 χ^2/NDF :2998887.1/26

All: 256.081+/-0.031 χ^2/NDF : 4521718.6/50

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -194.089+/-471.665 χ^2/NDF : 0.0/0

Left Out: 44.602+/-13.824 χ^2/NDF :53.9/24

Right Out: -43.769+/-190.716 χ^2/NDF : 0.1/1

Left In: 72.037+/-14.296 χ^2/NDF :25.3/22

Left: 57.859+/-9.938 χ^2/NDF : 81.1/47

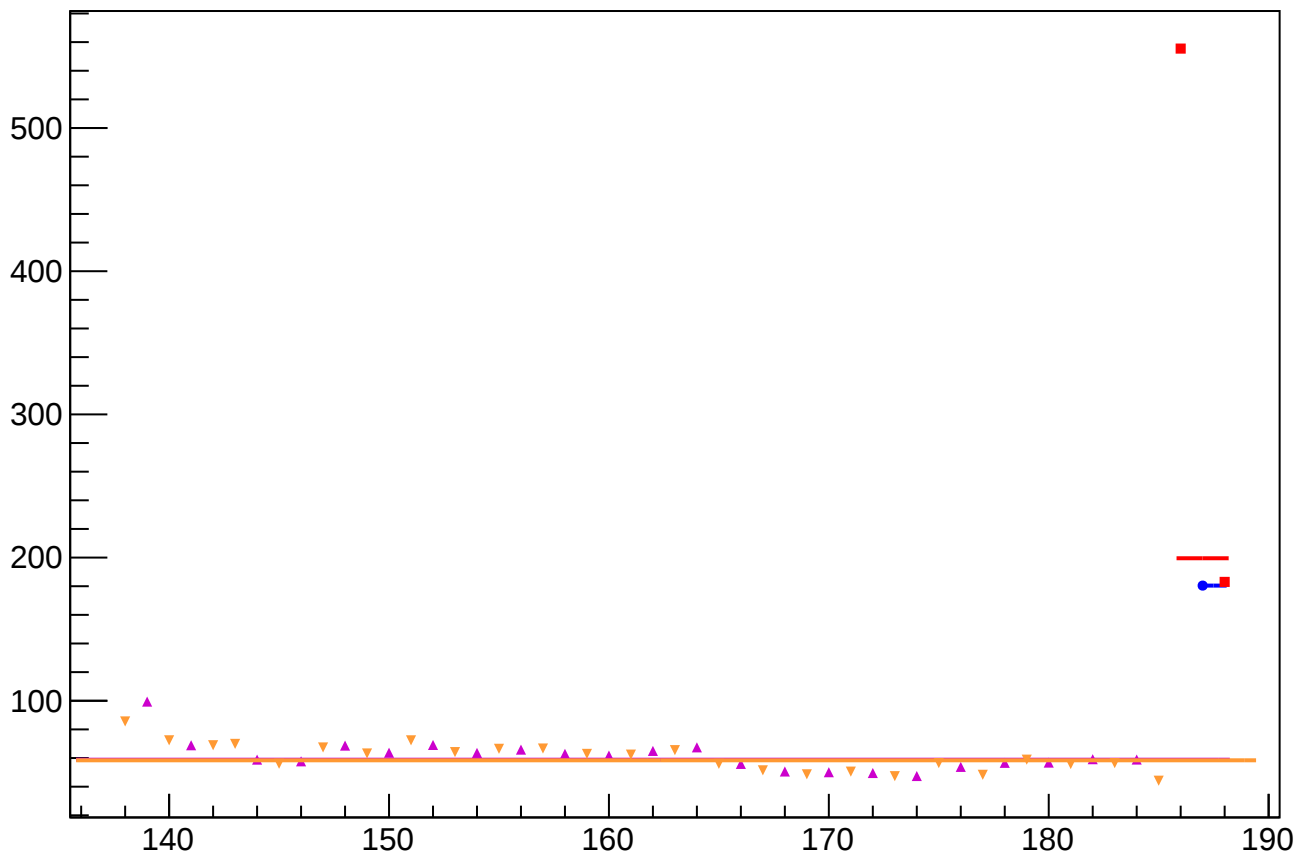
Right: -64.892+/-176.809 χ^2/NDF : 0.2/2

In: 71.793+/-14.290 χ^2/NDF :25.6/23

Out: 44.140+/-13.788 χ^2/NDF :54.2/26

All: 57.472+/-9.922 χ^2/NDF : 81.8/50

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 180.436 $\pm$ 0.334 χ^2/NDF : 0.0/0

Left Out: 58.423 $\pm$ 0.010 χ^2/NDF : 790091.3/24

Right Out: 199.529 $\pm$ 0.135 χ^2/NDF : 323270.5/1

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

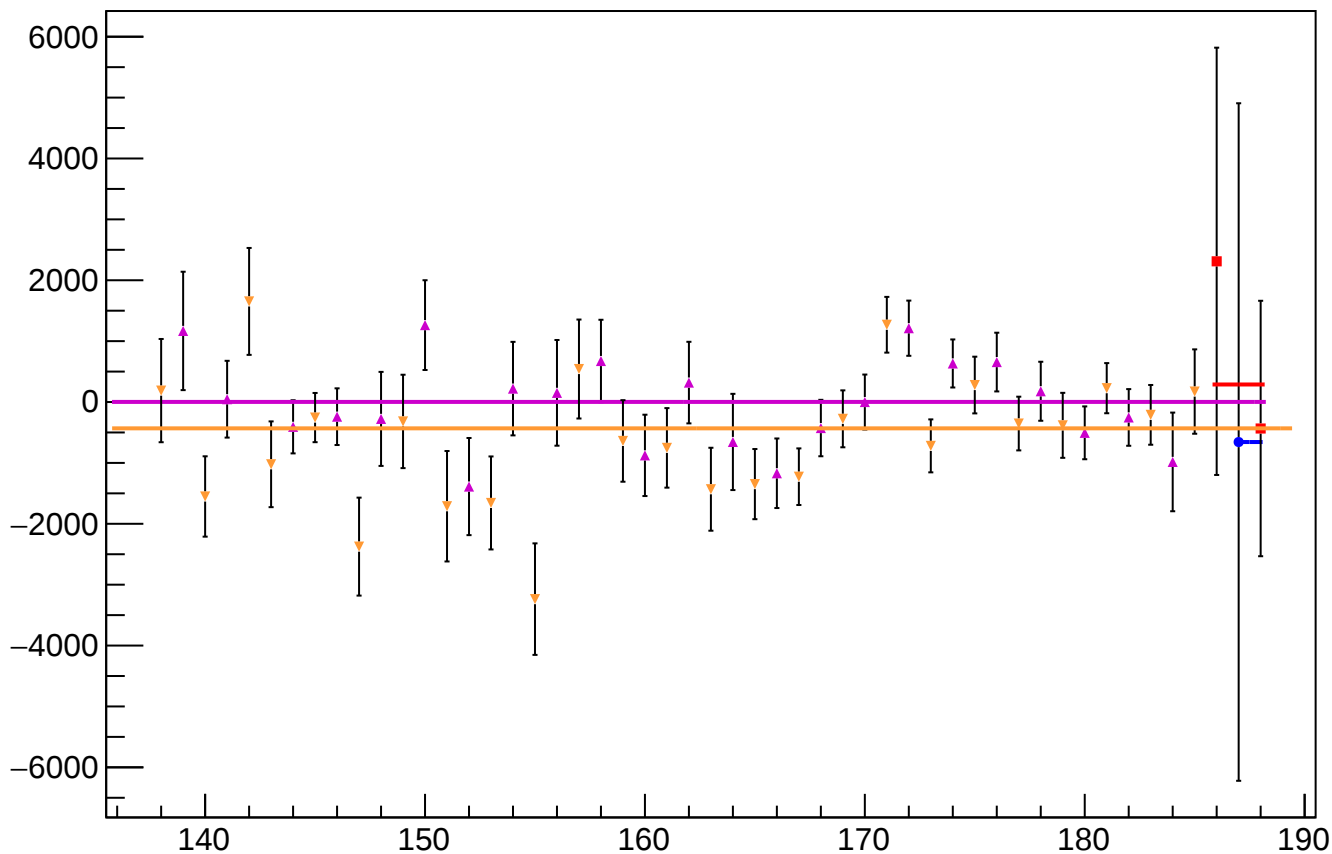
Right: 196.846 $\pm$ 0.125 χ^2/NDF : 326087.2/2

In: 58.951 $\pm$ 0.010 χ^2/NDF : 812726.6/23

Out: 59.160 $\pm$ 0.010 χ^2/NDF : 2202468.1/26

All: 59.060 $\pm$ 0.007 χ^2/NDF : 3015416.3/50

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -657.066+/-5564.087 χ^2/NDF : 0.0/0

Left Out: -432.330+/-114.408 χ^2/NDF : 59.4/24

Right Out: 288.063+/-1800.547 χ^2/NDF : 0.5/1

Left In: 1.825+/-116.459 χ^2/NDF : 32.3/22

Left: -219.109+/-81.614 χ^2/NDF : 98.8/47

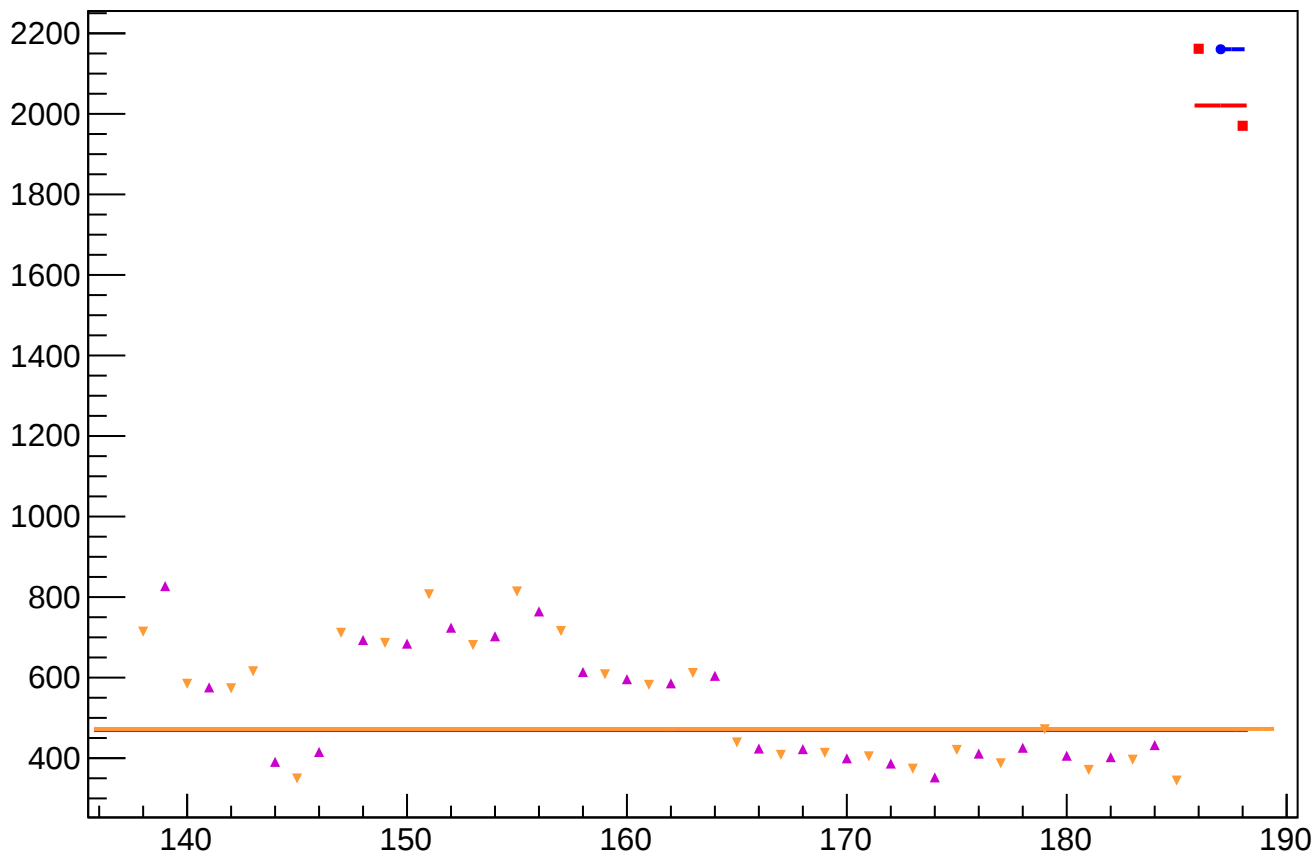
Right: 198.473+/-1713.084 χ^2/NDF : 0.5/2

In: 1.537+/-116.433 χ^2/NDF : 32.3/23

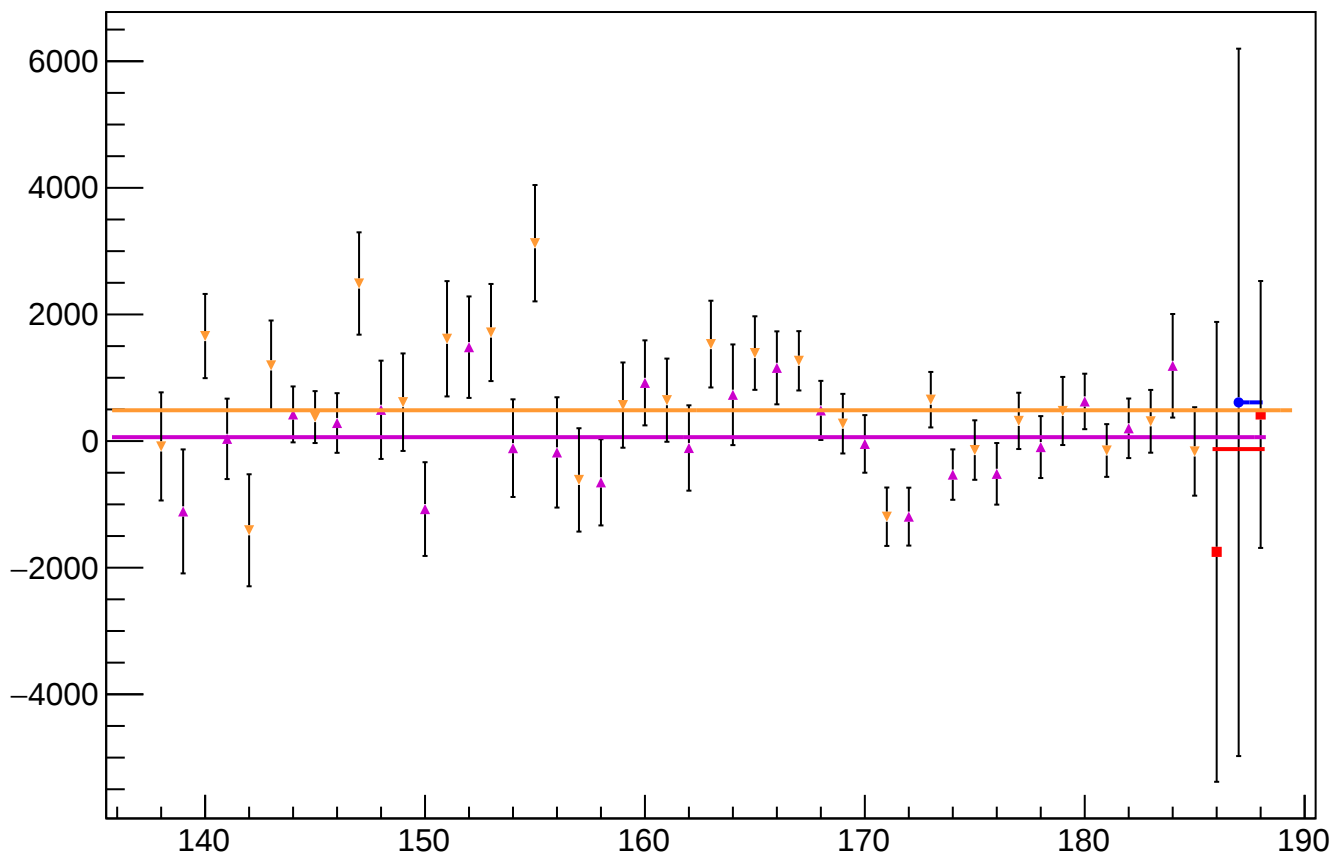
Out: -429.433+/-114.178 χ^2/NDF : 60.0/26

All: -218.163+/-81.522 χ^2/NDF : 99.3/50

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 611.320 $\pm$ 5587.050 χ^2 /NDF: 0.0/0

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -126.658 $\pm$ 1823.215 χ^2 /NDF: 0.3/1

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

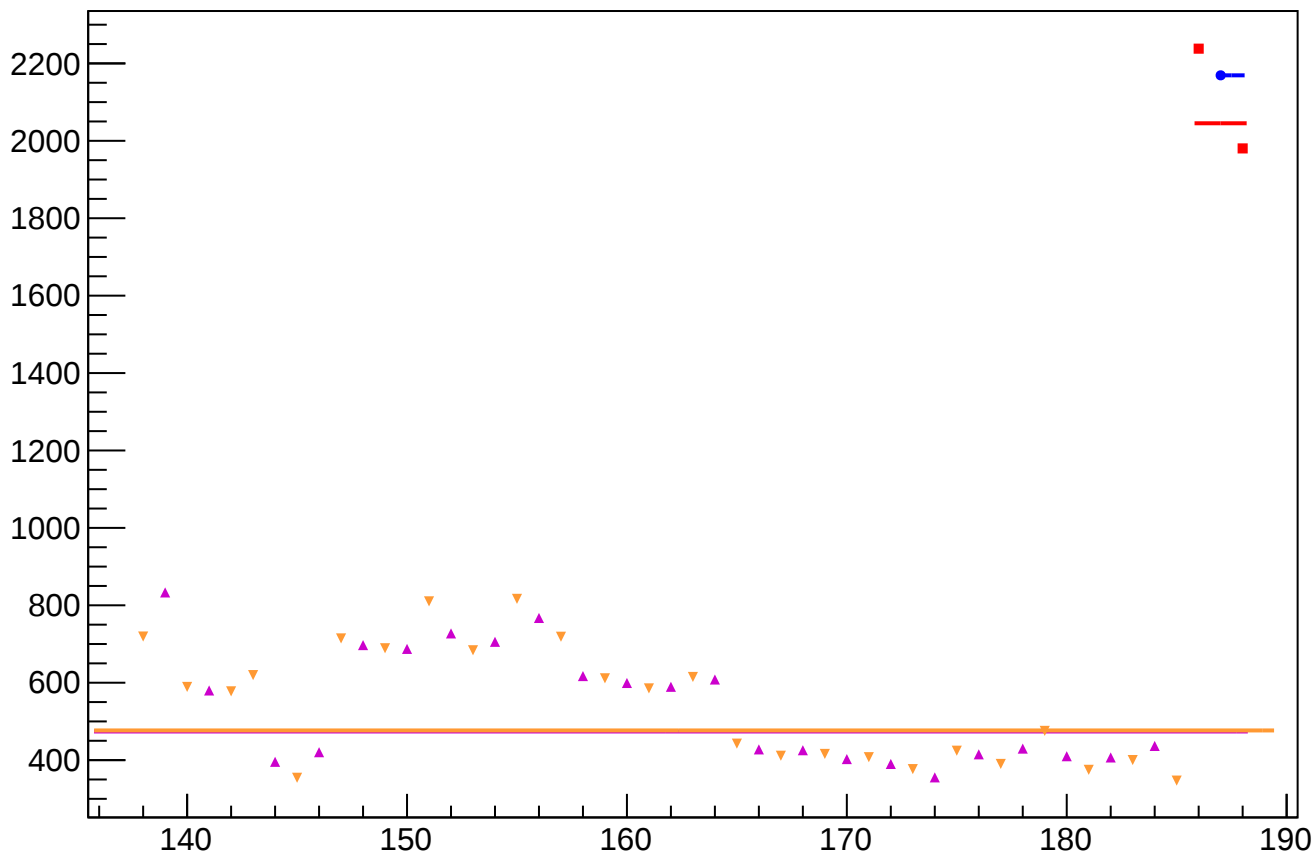
Right: -55.634 $\pm$ 1733.261 χ^2 /NDF: 0.3/2

In: 62.018 $\pm$ 117.423 χ^2 /NDF:31.2/23

Out: 484.200 $\pm$ 115.116 χ^2 /NDF:56.4/26

All: 277.297 $\pm$ 82.203 χ^2 /NDF: 94.2/50

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 2169.209+/-3.951 χ^2/NDF : 0.0/0

Left Out: 476.690+/-0.082 χ^2/NDF :2472737.6/24

Right Out: 2045.336+/-1.289 χ^2/NDF : 7530.8/1

Left In: 473.983+/-0.083 χ^2/NDF :2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47

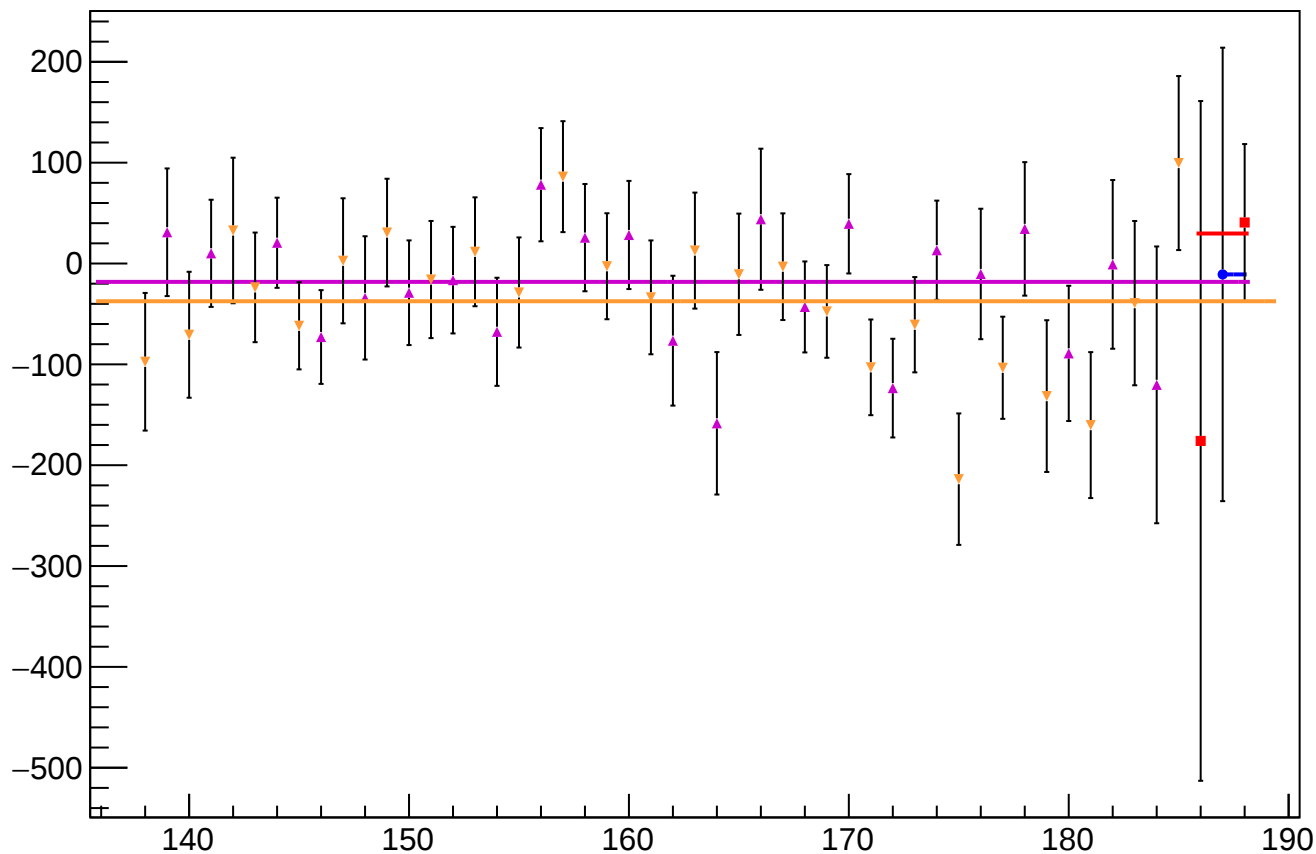
Right: 2057.258+/-1.226 χ^2/NDF : 8419.3/2

In: 474.732+/-0.083 χ^2/NDF :2271160.5/23

Out: 482.943+/-0.081 χ^2/NDF :3954852.8/26

All: 478.919+/-0.058 χ^2/NDF : 6231000.3/50

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -10.803 ± 224.840 χ^2/NDF : 0.0/0

Left Out: -37.413 ± 11.390 χ^2/NDF : 30.5/24

Right Out: 29.750 ± 75.764 χ^2/NDF : 0.4/1

Left In: -18.210 ± 11.788 χ^2/NDF : 23.0/22

Left: -28.141 ± 8.191 χ^2/NDF : 54.8/47

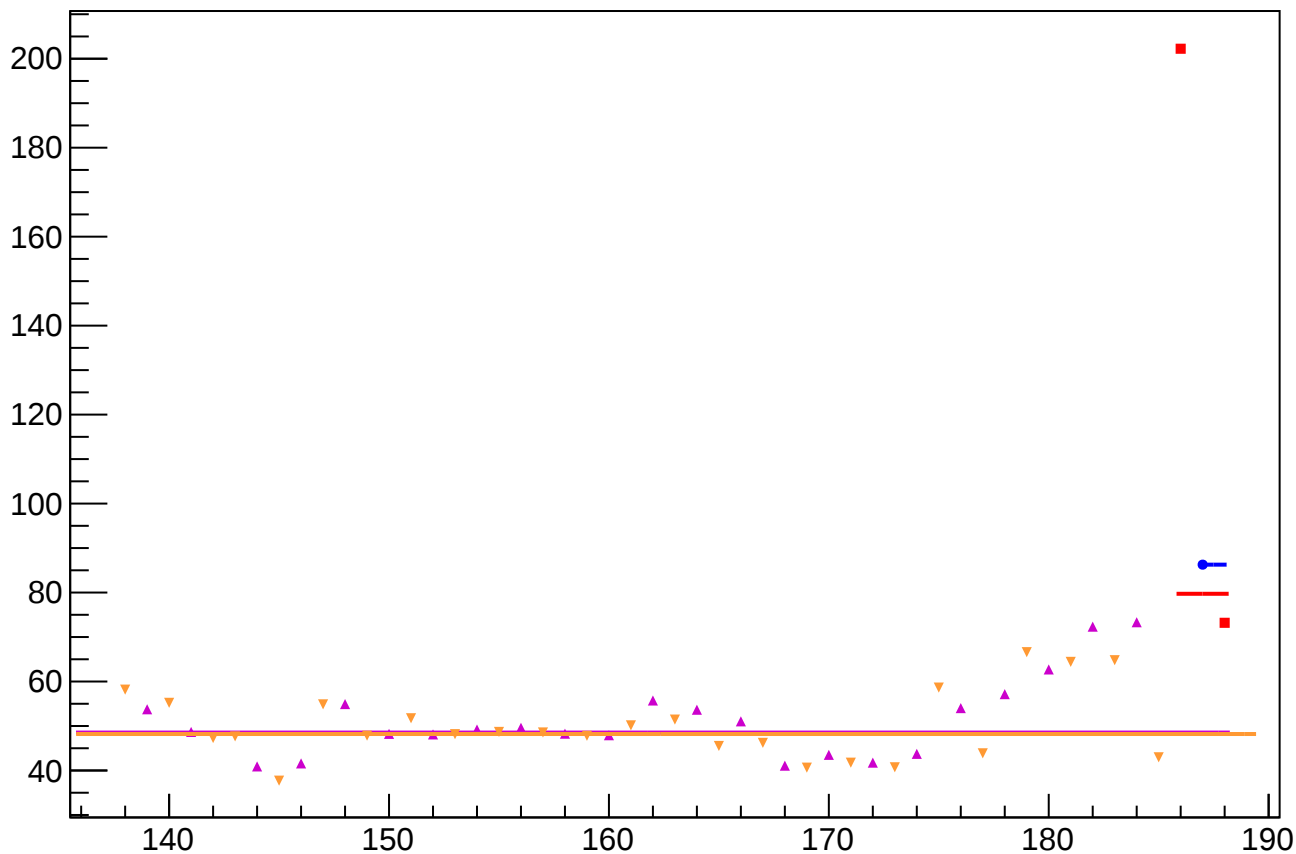
Right: 25.615 ± 71.797 χ^2/NDF : 0.4/2

In: -18.190 ± 11.772 χ^2/NDF : 23.0/23

Out: -35.928 ± 11.263 χ^2/NDF : 31.6/26

All: -27.451 ± 8.138 χ^2/NDF : 55.8/50

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 86.270 $\pm$ 0.159 χ^2 /NDF: 0.0/0

Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24

Right Out: 79.722 $\pm$ 0.054 χ^2 /NDF: 278392.9/1

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

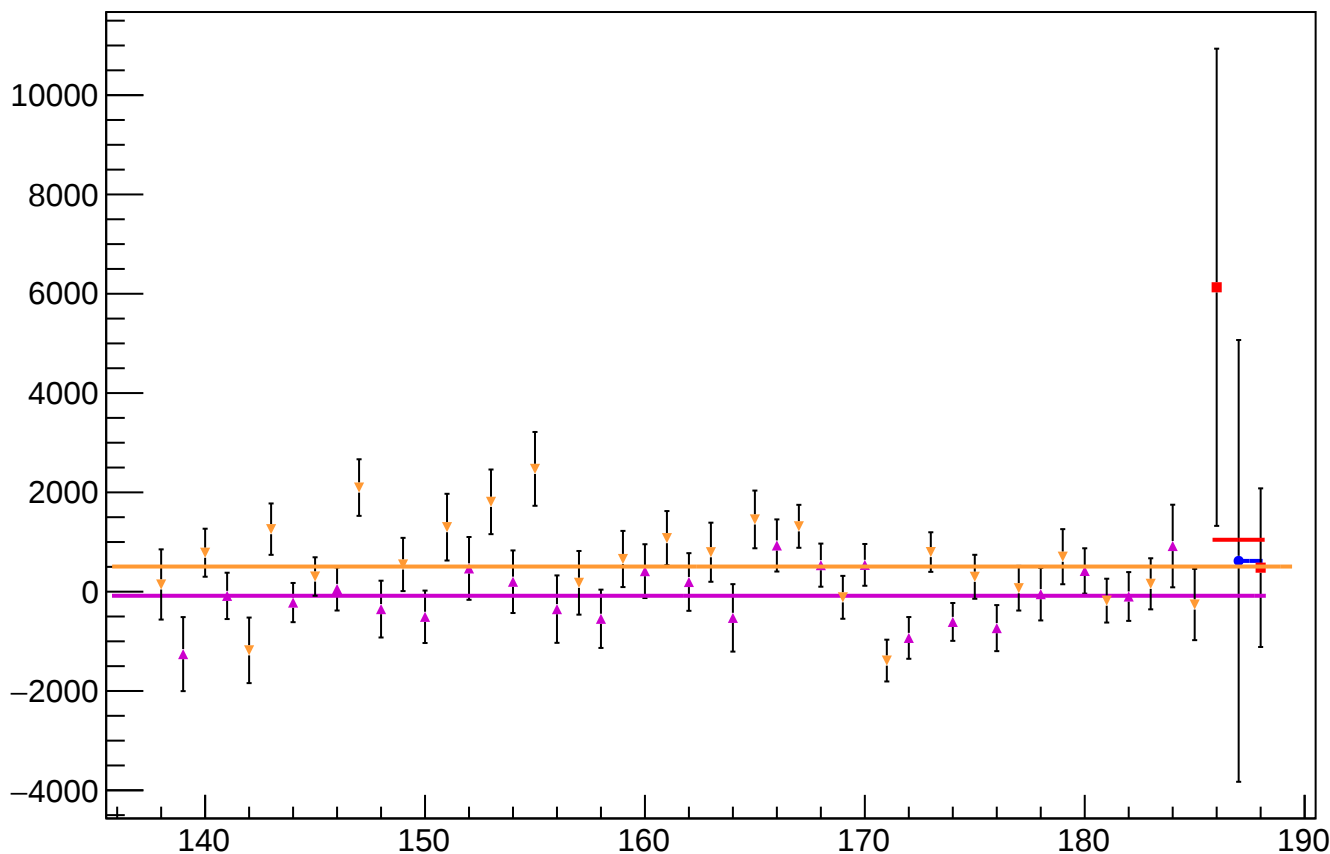
Right: 80.390 $\pm$ 0.051 χ^2 /NDF: 279916.5/2

In: 48.630 $\pm$ 0.008 χ^2 /NDF: 731546.4/23

Out: 48.896 $\pm$ 0.008 χ^2 /NDF: 1367149.9/26

All: 48.769 $\pm$ 0.006 χ^2 /NDF: 2099229.9/50

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 619.729 $\pm$ 4448.700 χ^2 /NDF: 0.0/0

Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24

Right Out: 1045.353 $\pm$ 1515.813 χ^2 /NDF: 1.2/1

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

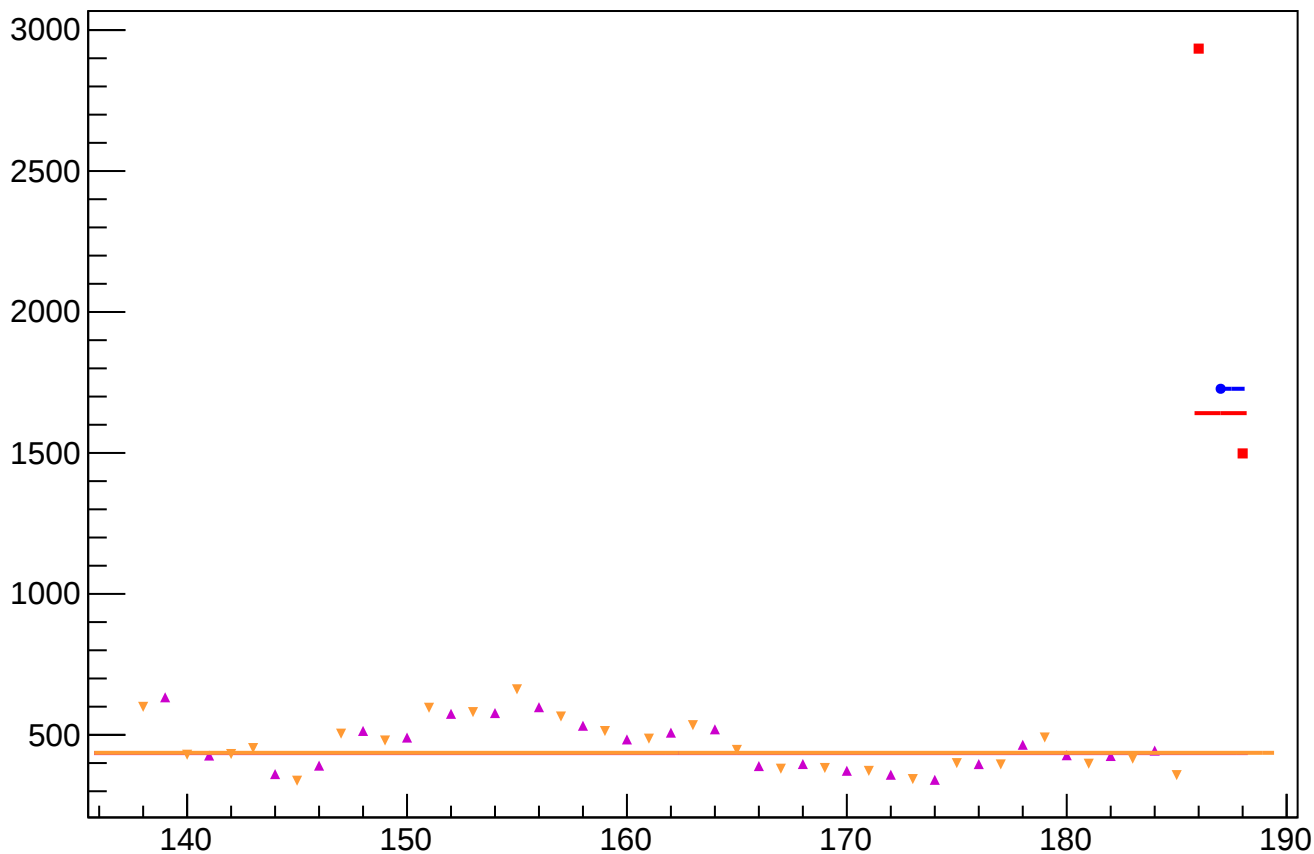
Right: 1001.079 $\pm$ 1434.810 χ^2 /NDF: 1.3/2

In: -82.023 $\pm$ 105.905 χ^2 /NDF:25.4/23

Out: 508.705 $\pm$ 103.227 χ^2 /NDF:67.1/26

All: 220.904 $\pm$ 73.921 χ^2 /NDF: 108.4/50

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1727.647+/-3.146 χ^2/NDF : 0.0/0

Left Out: 436.301+/-0.073 χ^2/NDF :1179348.4/24

Right Out: 1641.193+/-1.072 χ^2/NDF : 160797.8/1

Left In: 435.275+/-0.075 χ^2/NDF :1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

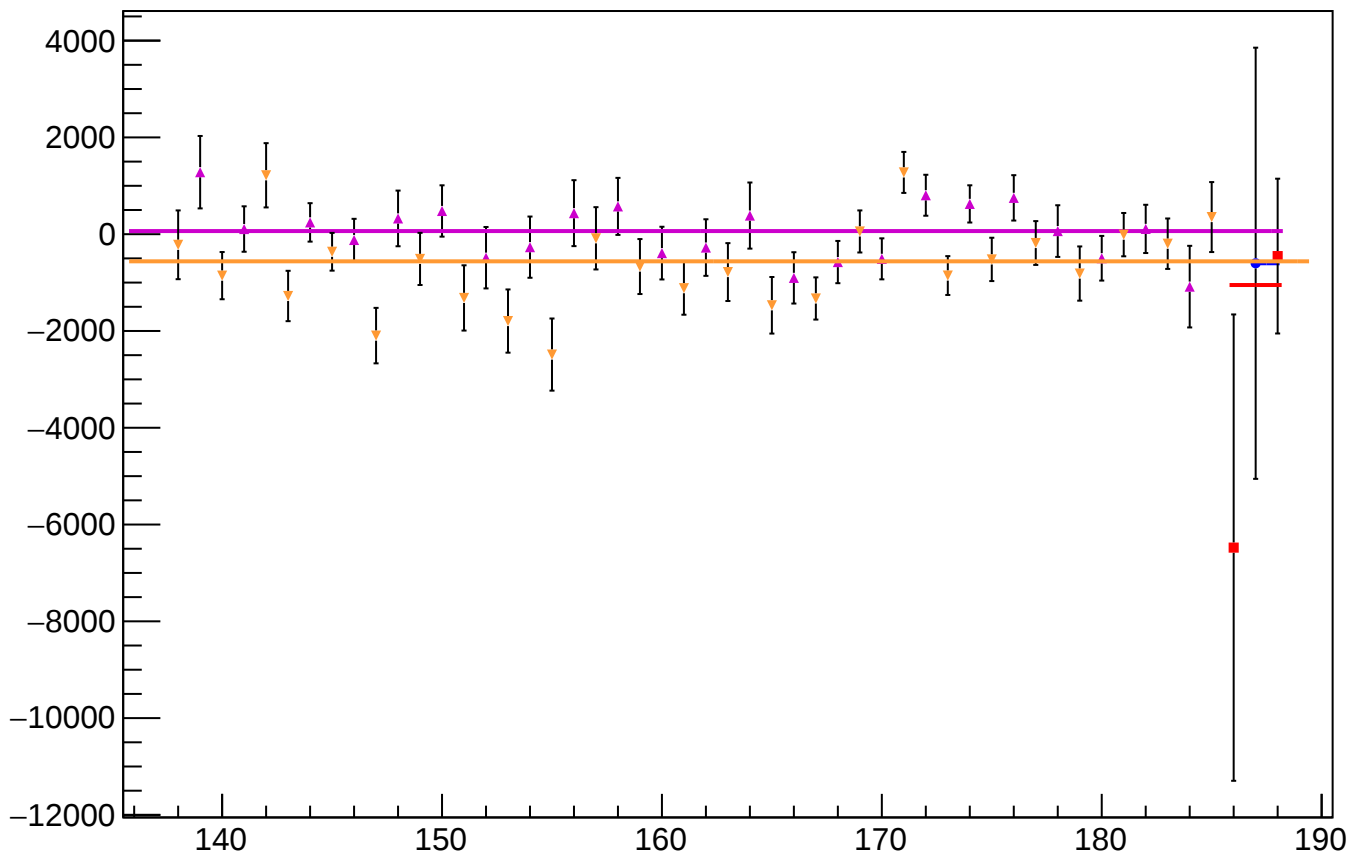
Right: 1650.186+/-1.015 χ^2/NDF : 161474.5/2

In: 436.007+/-0.075 χ^2/NDF :1196404.4/23

Out: 441.889+/-0.073 χ^2/NDF :2597958.5/26

All: 439.024+/-0.052 χ^2/NDF : 3797526.5/50

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -600.770 $\pm$ 4455.156 χ^2 /NDF: 0.0/0

Left Out: -560.684 $\pm$ 104.207 χ^2 /NDF:61.8/24

Right Out: -1050.335 $\pm$ 1517.955 χ^2 /NDF: 1.4/1

Left In: 64.594 $\pm$ 106.708 χ^2 /NDF:25.2/22

Left: -255.457 $\pm$ 74.554 χ^2 /NDF: 104.5/47

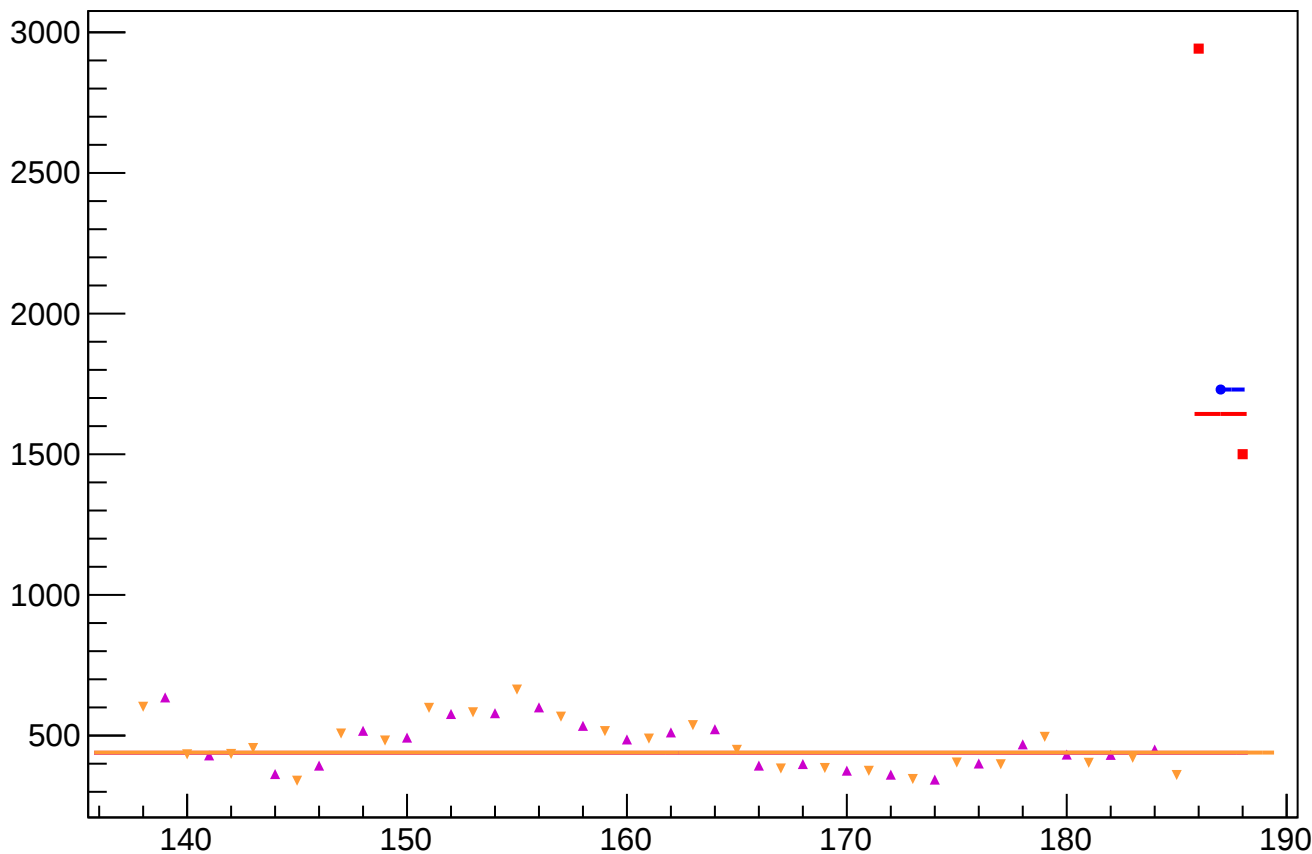
Right: -1003.574 $\pm$ 1436.843 χ^2 /NDF: 1.4/2

In: 64.213 $\pm$ 106.677 χ^2 /NDF:25.2/23

Out: -562.981 $\pm$ 103.962 χ^2 /NDF:63.3/26

All: -257.465 $\pm$ 74.454 χ^2 /NDF: 106.2/50

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1730.123+/-3.150 χ^2/NDF : 0.0/0

Left Out: 439.527+/-0.074 χ^2/NDF :1163352.8/24

Right Out: 1643.344+/-1.073 χ^2/NDF : 161280.4/1

Left In: 438.548+/-0.075 χ^2/NDF :1013071.4/22

Left: 439.049+/-0.053 χ^2/NDF : 2176510.4/47

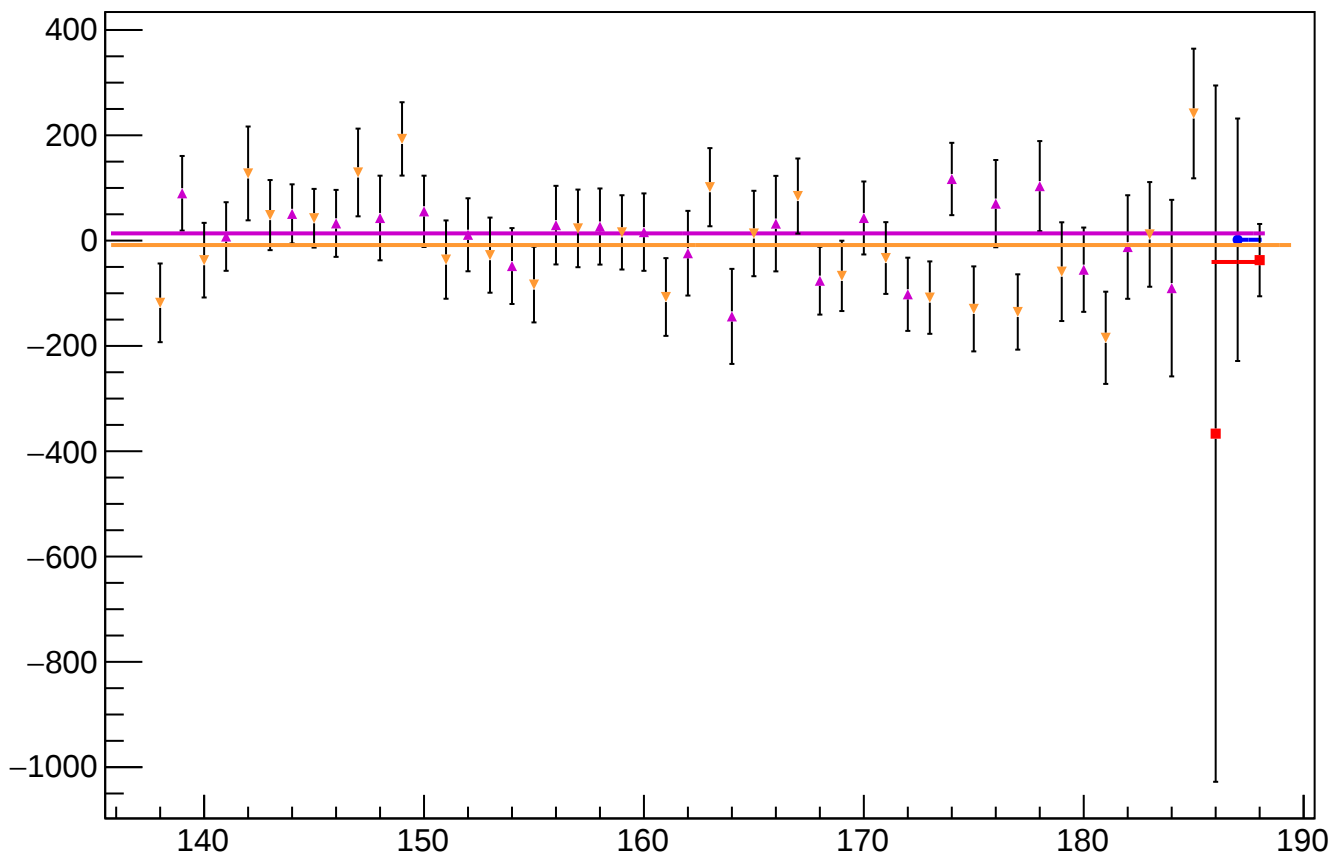
Right: 1652.371+/-1.016 χ^2/NDF : 161960.3/2

In: 439.288+/-0.075 χ^2/NDF :1181065.7/23

Out: 445.174+/-0.074 χ^2/NDF :2576597.3/26

All: 442.307+/-0.053 χ^2/NDF : 3760785.3/50

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 1.619 $\pm$ 230.253 χ^2 /NDF: 0.0/0

Left Out: -8.416 $\pm$ 14.935 χ^2 /NDF:41.6/24

Right Out: -40.575 $\pm$ 68.285 χ^2 /NDF: 0.2/1

Left In: 13.723 $\pm$ 15.478 χ^2 /NDF:16.3/22

Left: 2.258 $\pm$ 10.747 χ^2 /NDF: 58.9/47

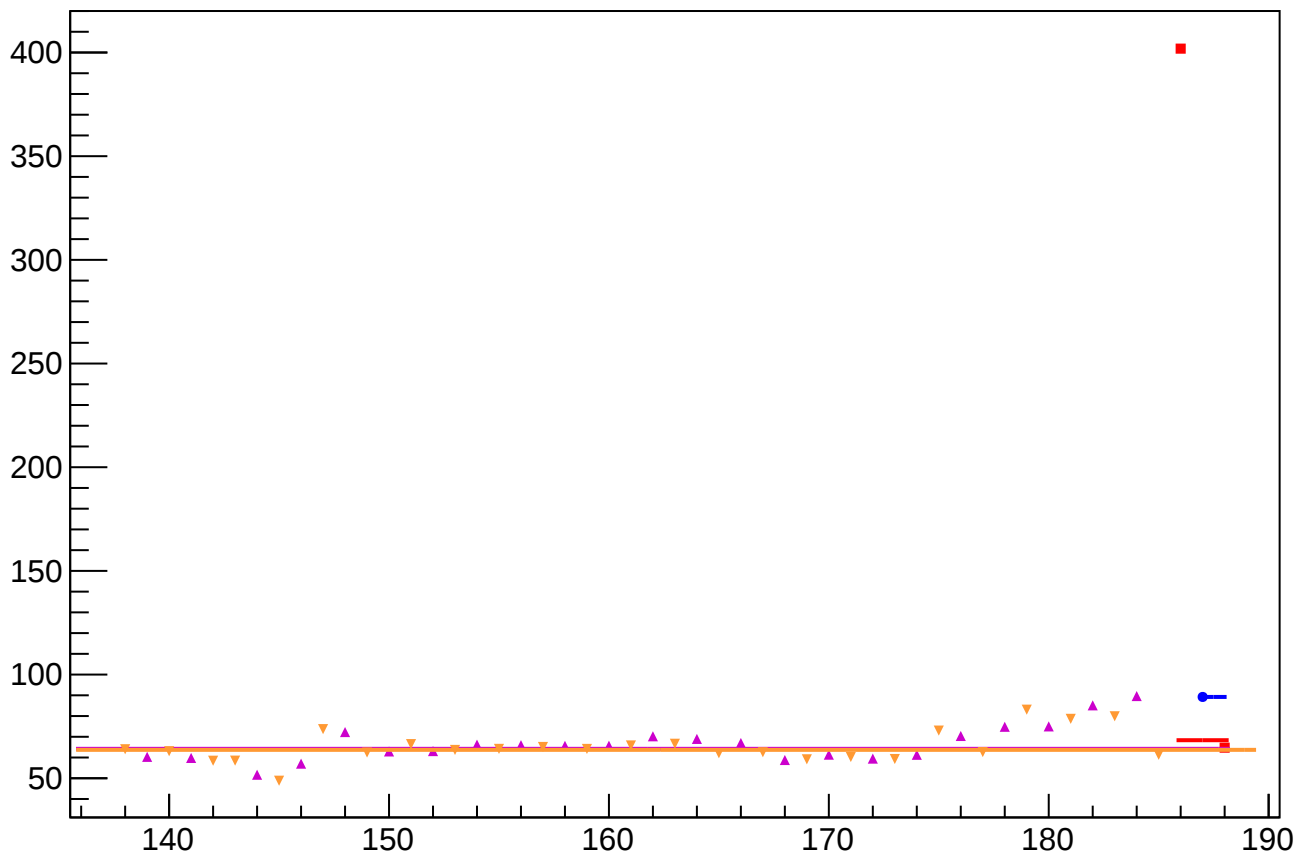
Right: -37.164 $\pm$ 65.466 χ^2 /NDF: 0.3/2

In: 13.669 $\pm$ 15.443 χ^2 /NDF:16.3/23

Out: -9.884 $\pm$ 14.590 χ^2 /NDF:42.1/26

All: 1.224 $\pm$ 10.605 χ^2 /NDF: 59.5/50

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 89.214 $\pm$ 0.163 χ^2 /NDF: 0.0/0

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 68.347 $\pm$ 0.048 χ^2 /NDF: 514341.7/1

Left In: 64.189 $\pm$ 0.011 χ^2 /NDF: 429670.3/22

Left: 63.934 $\pm$ 0.008 χ^2 /NDF: 879161.0/47

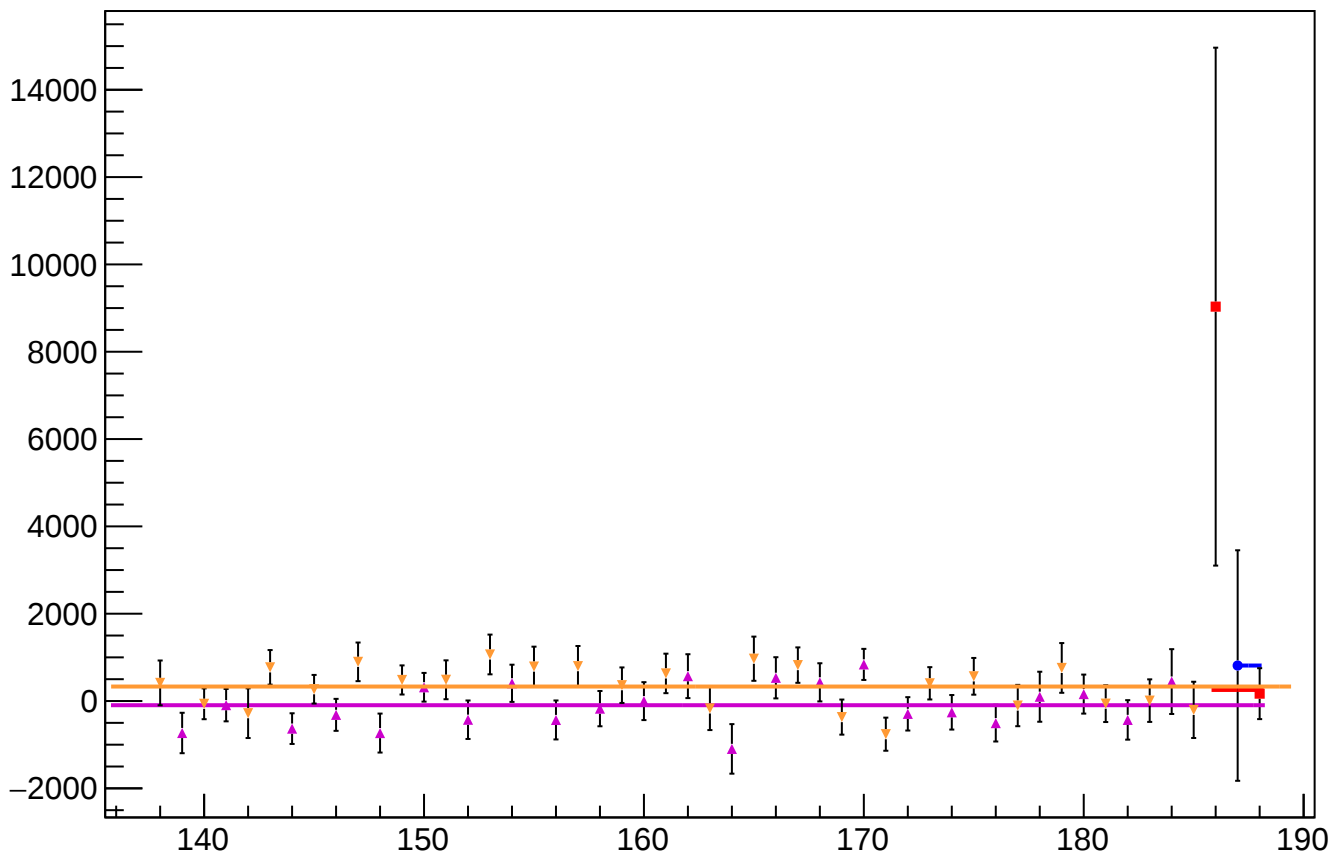
Right: 70.034 $\pm$ 0.046 χ^2 /NDF: 529438.7/2

In: 64.302 $\pm$ 0.011 χ^2 /NDF: 453187.6/23

Out: 63.908 $\pm$ 0.010 χ^2 /NDF: 971637.7/26

All: 64.094 $\pm$ 0.007 χ^2 /NDF: 1425510.9/50

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 812.787 ± 2639.916 $\chi^2/\text{NDF}: 0.0/0$

Left Out: 331.739 ± 86.071 $\chi^2/\text{NDF}: 29.9/24$

Right Out: 253.673 ± 580.451 $\chi^2/\text{NDF}: 2.2/1$

Left In: -95.910 ± 88.656 $\chi^2/\text{NDF}: 28.7/22$

Left: 124.240 ± 61.755 $\chi^2/\text{NDF}: 70.5/47$

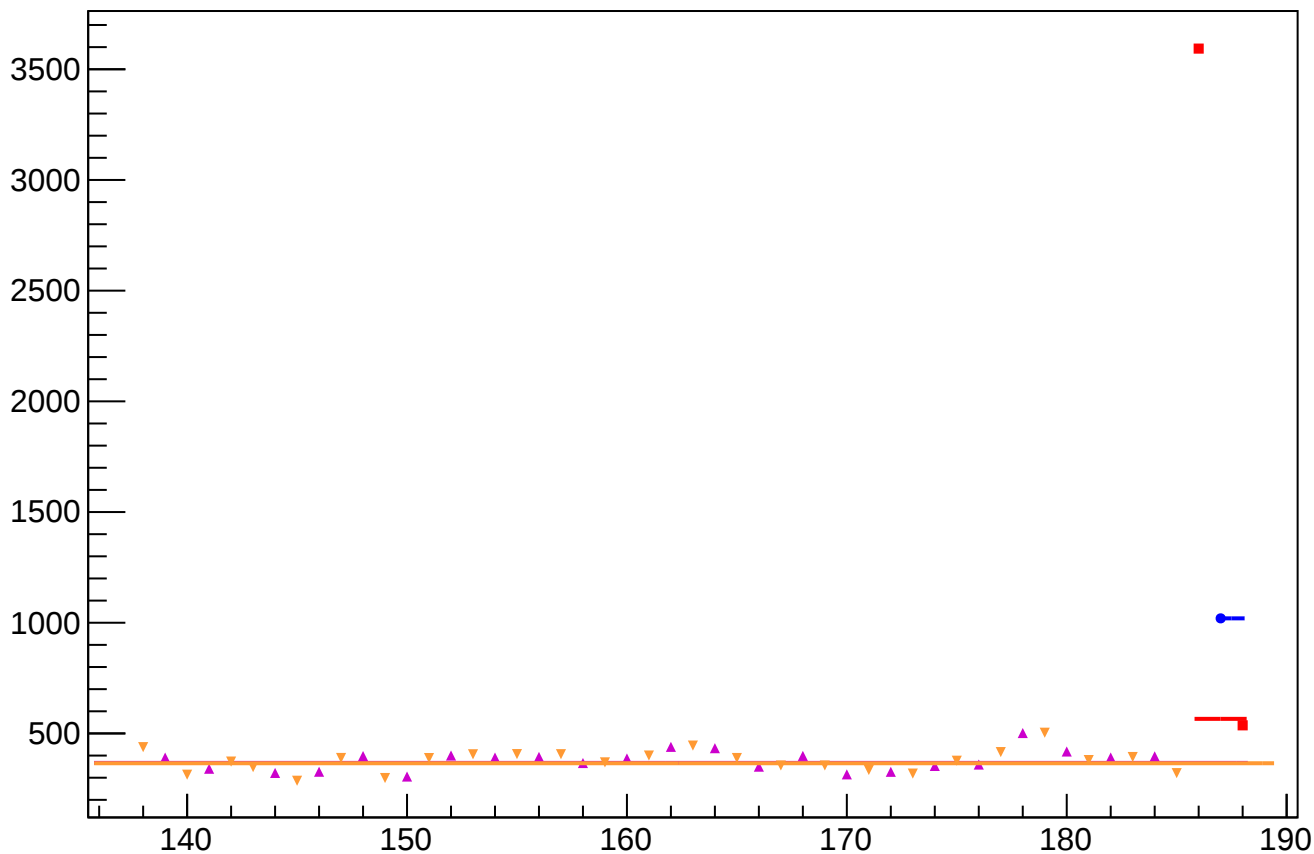
Right: 279.457 ± 566.909 $\chi^2/\text{NDF}: 2.3/2$

In: -94.886 ± 88.606 $\chi^2/\text{NDF}: 28.8/23$

Out: 330.059 ± 85.140 $\chi^2/\text{NDF}: 32.1/26$

All: 126.060 ± 61.392 $\chi^2/\text{NDF}: 72.9/50$

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1019.794+/-1.867 χ^2/NDF : 0.0/0

Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24

Right Out: 565.843+/-0.410 χ^2/NDF : 526106.1/1

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

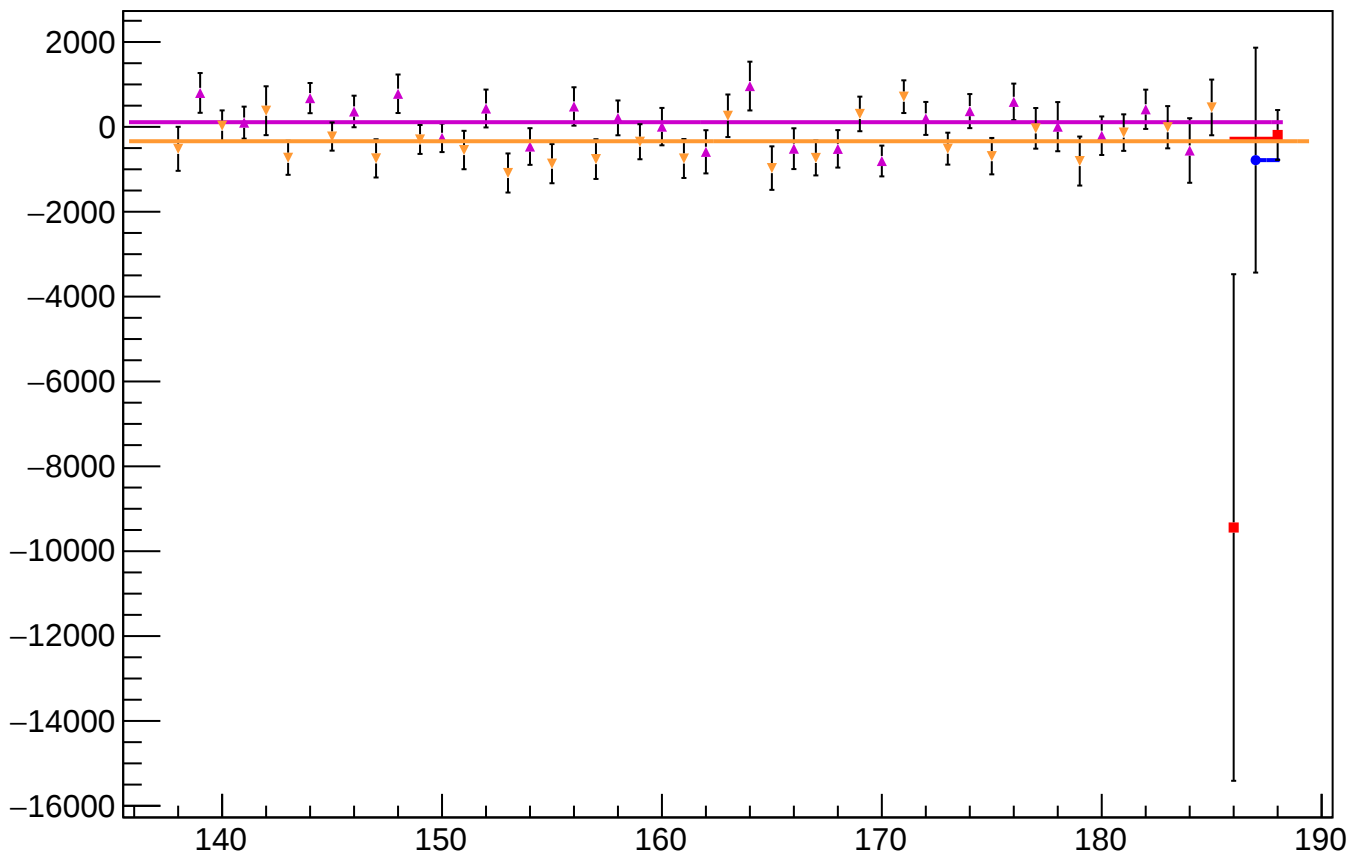
Right: 586.777+/-0.401 χ^2/NDF : 582517.0/2

In: 367.660+/-0.063 χ^2/NDF : 600265.5/23

Out: 369.669+/-0.060 χ^2/NDF : 1378028.0/26

All: 368.704+/-0.043 χ^2/NDF : 1978827.8/50

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -783.813 ± 2650.230 χ^2/NDF : 0.0/0

Left Out: -338.528 ± 87.450 χ^2/NDF : 28.2/24

Right Out: -279.989 ± 585.089 χ^2/NDF : 2.4/1

Left In: 110.341 ± 90.084 χ^2/NDF : 29.2/22

Left: -120.751 ± 62.747 χ^2/NDF : 70.2/47

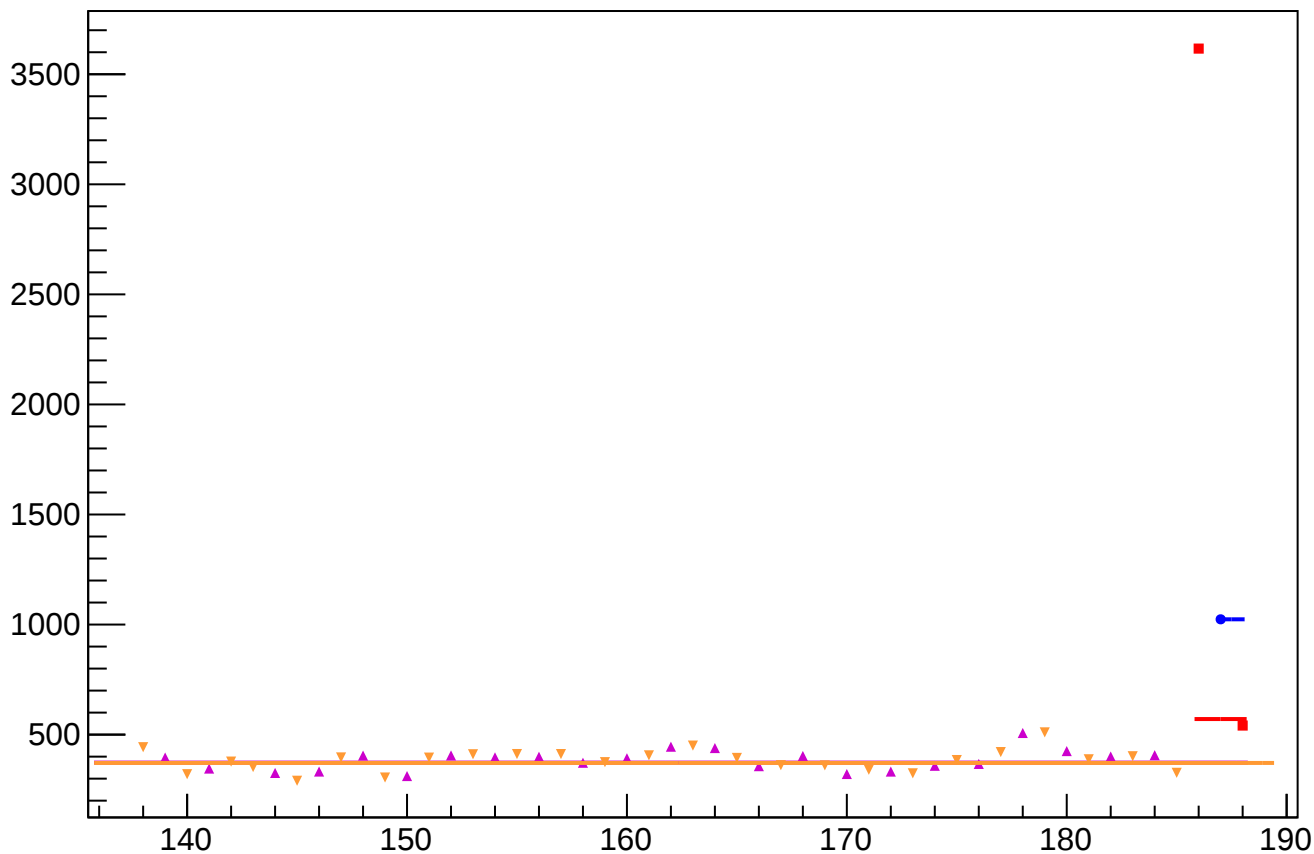
Right: -303.404 ± 571.332 χ^2/NDF : 2.4/2

In: 109.309 ± 90.032 χ^2/NDF : 29.3/23

Out: -337.249 ± 86.490 χ^2/NDF : 30.6/26

All: -122.928 ± 62.372 χ^2/NDF : 72.7/50

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 1023.828+/-1.874 χ^2/NDF : 0.0/0

Left Out: 371.356+/-0.062 χ^2/NDF :604070.6/24

Right Out: 570.750+/-0.414 χ^2/NDF : 525780.5/1

Left In: 372.938+/-0.064 χ^2/NDF :467340.9/22

Left: 372.123+/-0.044 χ^2/NDF : 1071729.1/47

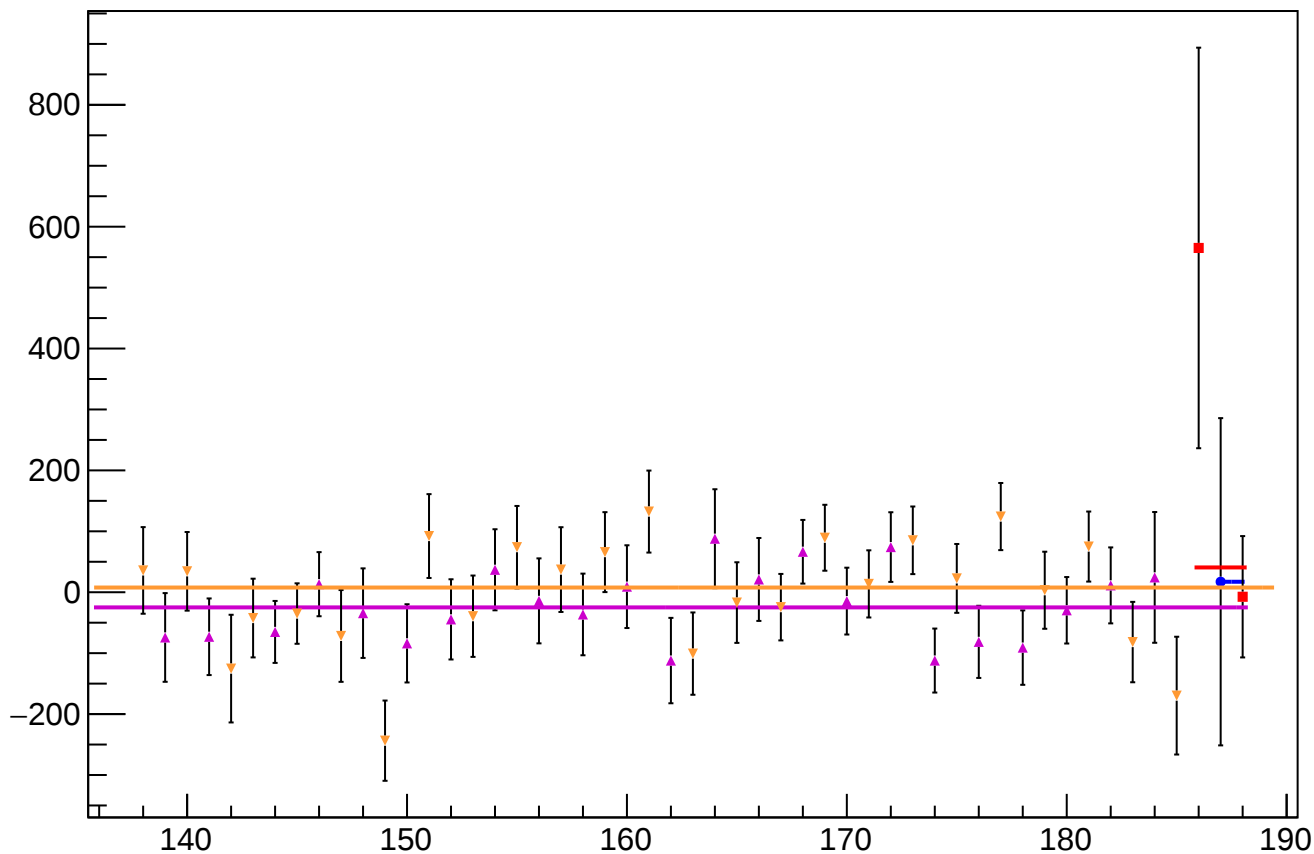
Right: 591.806+/-0.404 χ^2/NDF : 581517.4/2

In: 373.689+/-0.064 χ^2/NDF :587838.3/23

Out: 375.713+/-0.061 χ^2/NDF :1357053.7/26

All: 374.742+/-0.044 χ^2/NDF : 1945417.7/50

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 17.199+/-268.581 χ^2/NDF : 0.0/0

Left Out: 7.723+/-12.656 χ^2/NDF :45.4/24

Right Out: 40.693+/-95.307 χ^2/NDF : 2.8/1

Left In: -24.887+/-13.029 χ^2/NDF :19.7/22

Left: -8.108+/-9.078 χ^2/NDF : 68.4/47

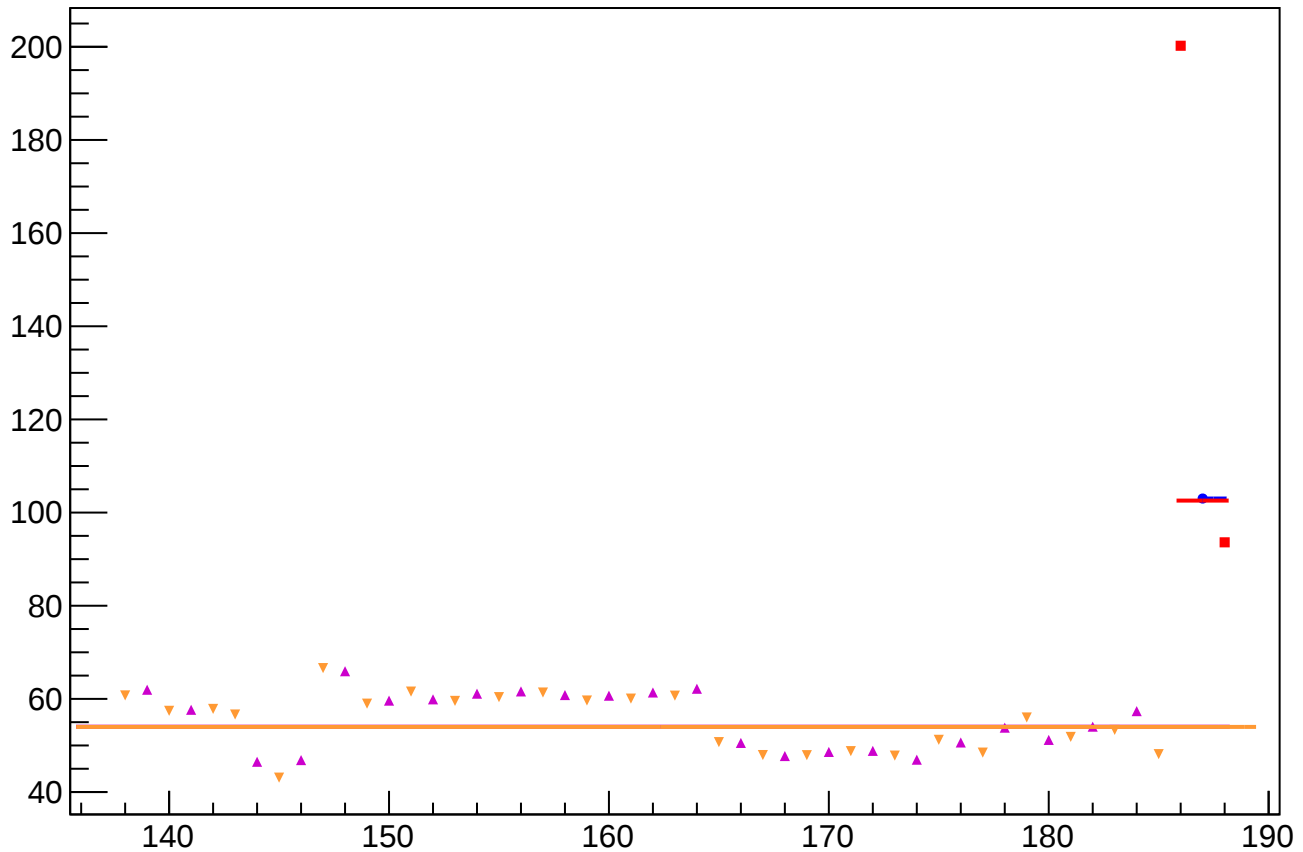
Right: 38.066+/-89.820 χ^2/NDF : 2.8/2

In: -24.789+/-13.013 χ^2/NDF :19.8/23

Out: 8.295+/-12.546 χ^2/NDF :48.3/26

All: -7.641+/-9.032 χ^2/NDF : 71.4/50

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 103.015 $\pm$ 0.190 χ^2 /NDF: 0.0/0

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF:458972.1/24

Right Out: 102.574 $\pm$ 0.067 χ^2 /NDF: 192666.8/1

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

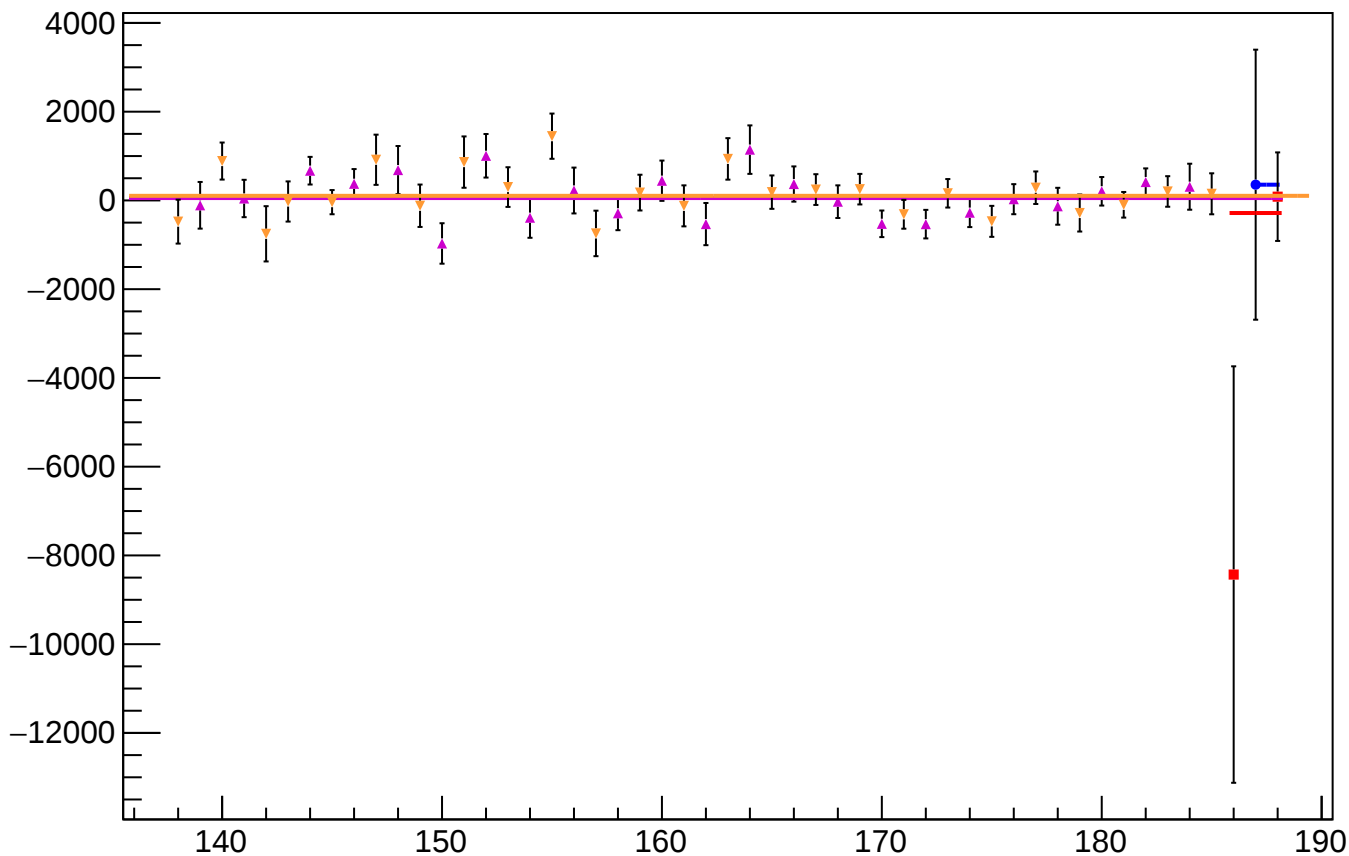
Right: 102.624 $\pm$ 0.064 χ^2 /NDF: 192671.6/2

In: 54.143 $\pm$ 0.009 χ^2 /NDF:510197.3/23

Out: 54.826 $\pm$ 0.009 χ^2 /NDF:1162491.3/26

All: 54.497 $\pm$ 0.006 χ^2 /NDF: 1675543.5/50

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 354.740 $\pm$ 3042.718 χ^2 /NDF: 0.0/0

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -283.602 $\pm$ 975.857 χ^2 /NDF: 3.2/1

Left In: 53.493 $\pm$ 81.201 χ^2 /NDF:34.1/22

Left: 79.212 $\pm$ 56.750 χ^2 /NDF: 65.3/47

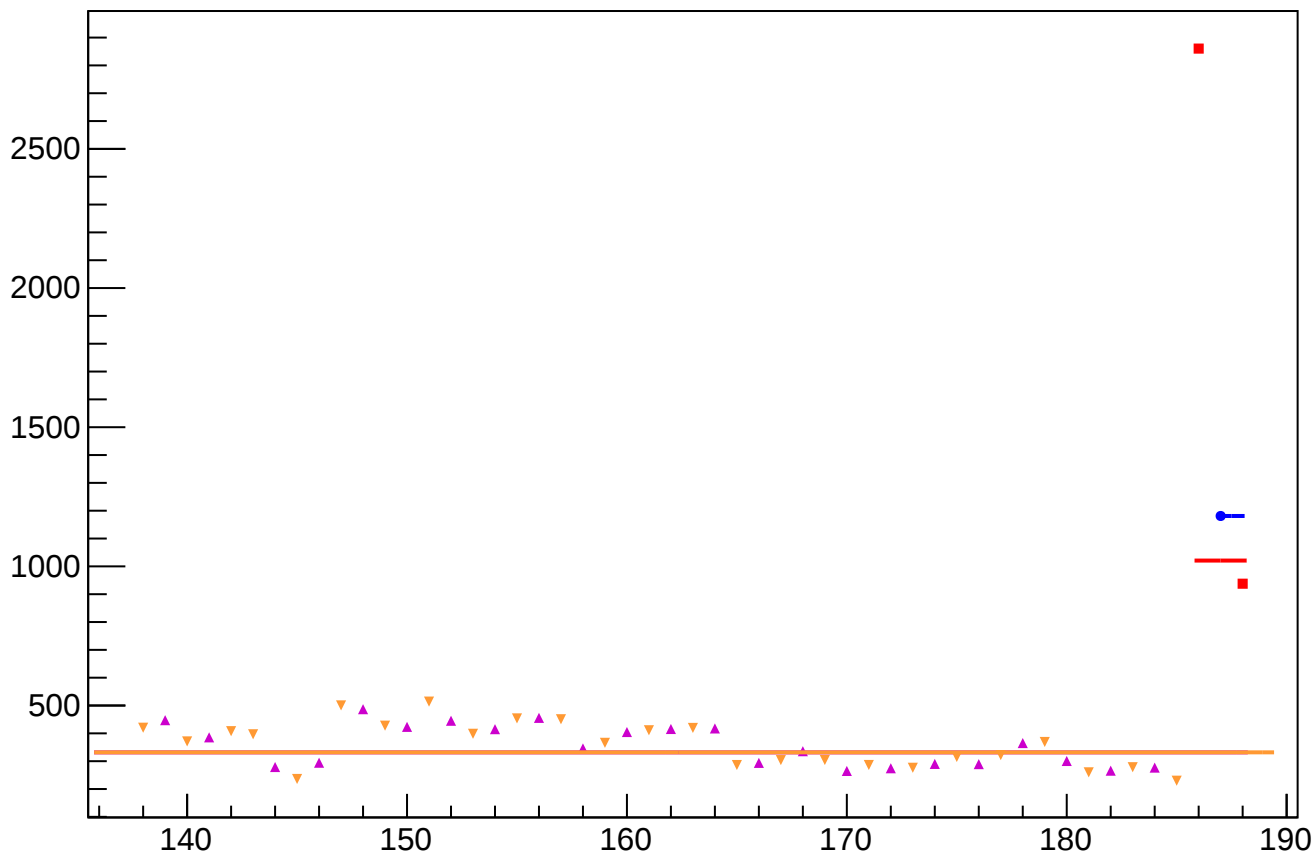
Right: -224.066 $\pm$ 929.236 χ^2 /NDF: 3.2/2

In: 53.707 $\pm$ 81.172 χ^2 /NDF:34.1/23

Out: 101.224 $\pm$ 79.083 χ^2 /NDF:34.3/26

All: 78.085 $\pm$ 56.644 χ^2 /NDF: 68.6/50

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 1181.038 $\pm$ 2.152 χ^2 /NDF: 0.0/0

Left Out: 331.770 $\pm$ 0.056 χ^2 /NDF:1711721.9/24

Right Out: 1020.834 $\pm$ 0.690 χ^2 /NDF: 321211.8/1

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

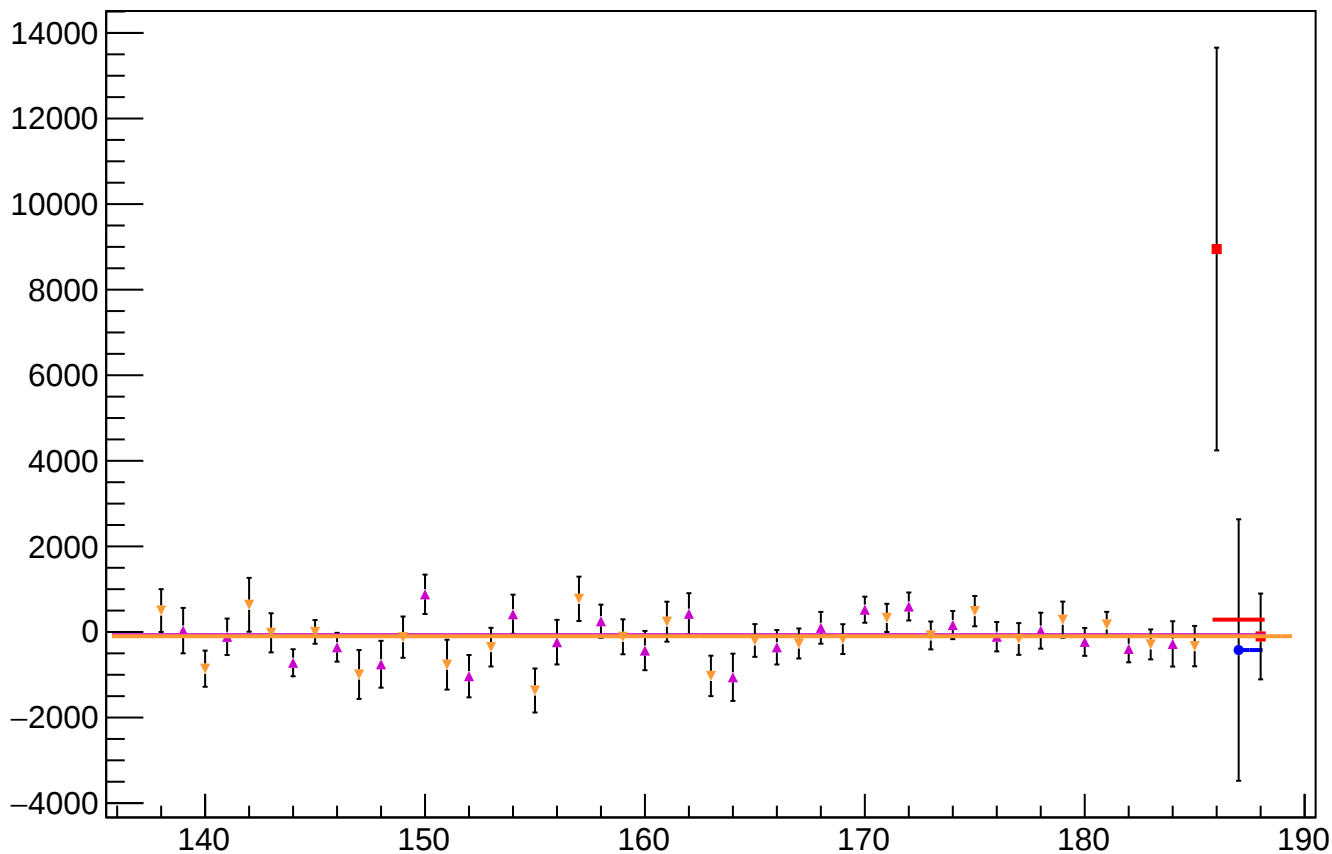
Right: 1035.776 $\pm$ 0.657 χ^2 /NDF: 326239.0/2

In: 332.270 $\pm$ 0.057 χ^2 /NDF:1458929.9/23

Out: 336.296 $\pm$ 0.056 χ^2 /NDF:3023570.5/26

All: 334.335 $\pm$ 0.040 χ^2 /NDF: 4485023.9/50

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -422.369+/-3055.841 χ^2/NDF : 0.0/0

Left Out: -99.785+/-80.428 χ^2/NDF :30.7/24

Right Out: 288.745+/-981.014 χ^2/NDF : 3.5/1

Left In: -75.579+/-82.319 χ^2/NDF :32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

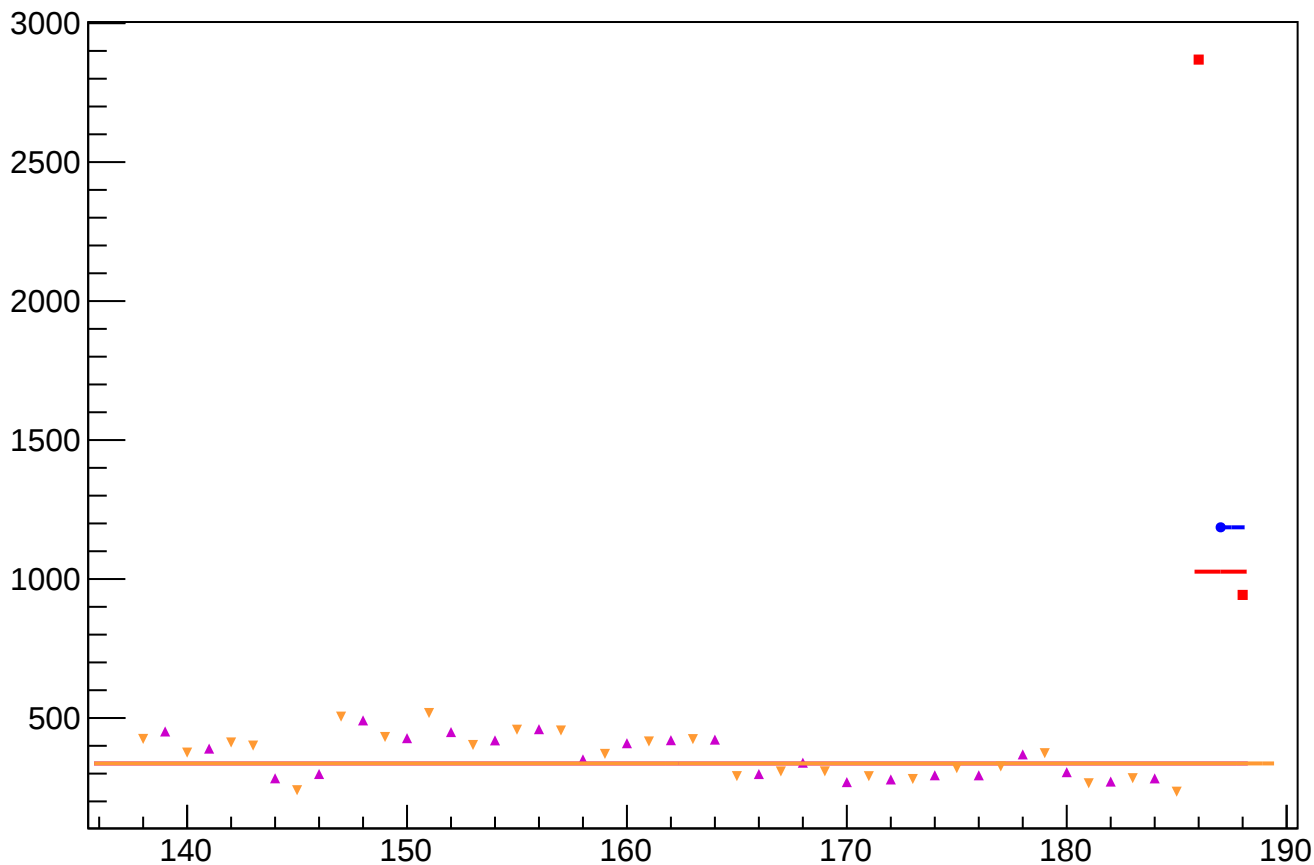
Right: 222.305+/-934.062 χ^2/NDF : 3.6/2

In: -75.831+/-82.289 χ^2/NDF :32.1/23

Out: -97.191+/-80.159 χ^2/NDF :34.4/26

All: -86.791+/-57.419 χ^2/NDF : 66.5/50

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 1186.048 $\pm$ 2.161 χ^2 /NDF: 0.0/0

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF:1665919.4/24

Right Out: 1026.530 $\pm$ 0.694 χ^2 /NDF: 320389.0/1

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

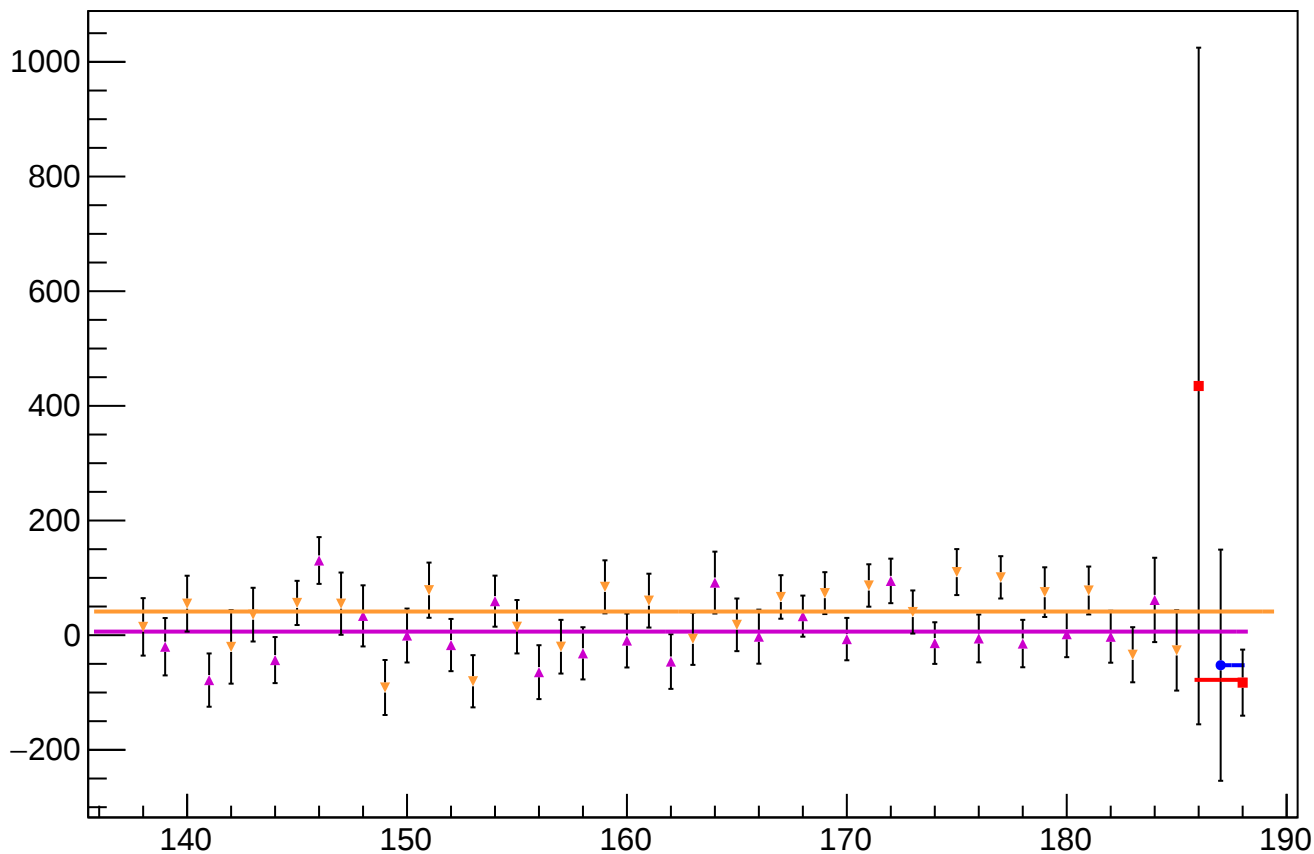
Right: 1041.434 $\pm$ 0.660 χ^2 /NDF: 325329.7/2

In: 337.056 $\pm$ 0.058 χ^2 /NDF:1423553.1/23

Out: 341.164 $\pm$ 0.057 χ^2 /NDF:2969038.4/26

All: 339.164 $\pm$ 0.041 χ^2 /NDF: 4395149.8/50

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -52.362 $\pm$ 201.613 χ^2 /NDF: 0.0/0

Left Out: 41.283 $\pm$ 8.889 χ^2 /NDF:34.4/24

Right Out: -77.893 $\pm$ 57.344 χ^2 /NDF: 0.8/1

Left In: 6.254 $\pm$ 9.175 χ^2 /NDF:30.3/22

Left: 24.322 $\pm$ 6.384 χ^2 /NDF: 72.2/47

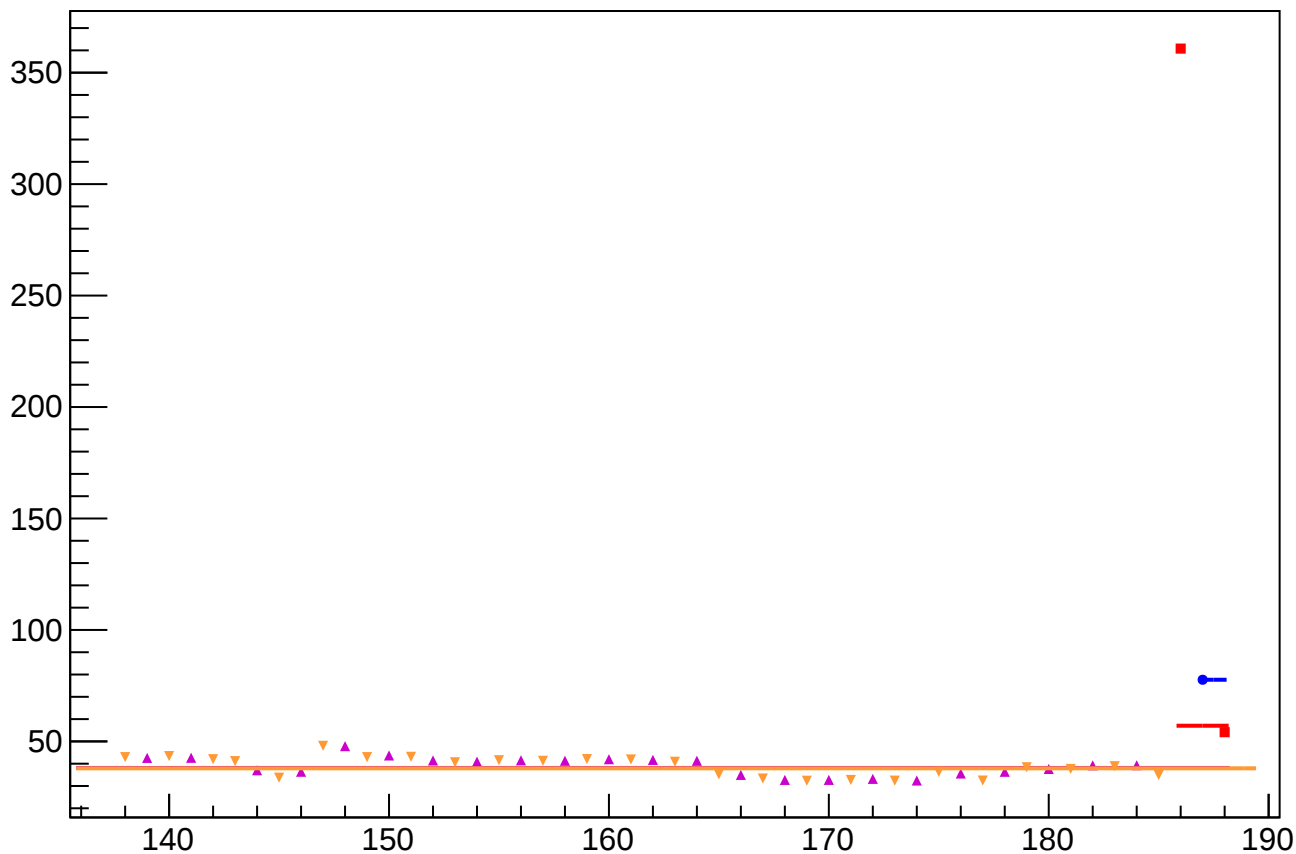
Right: -75.982 $\pm$ 55.156 χ^2 /NDF: 0.8/2

In: 6.133 $\pm$ 9.165 χ^2 /NDF:30.4/23

Out: 38.487 $\pm$ 8.784 χ^2 /NDF:39.3/26

All: 22.996 $\pm$ 6.342 χ^2 /NDF: 76.2/50

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 77.658 $\pm$ 0.143 χ^2 /NDF: 0.0/0

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 57.034 $\pm$ 0.041 χ^2 /NDF: 534956.7/1

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

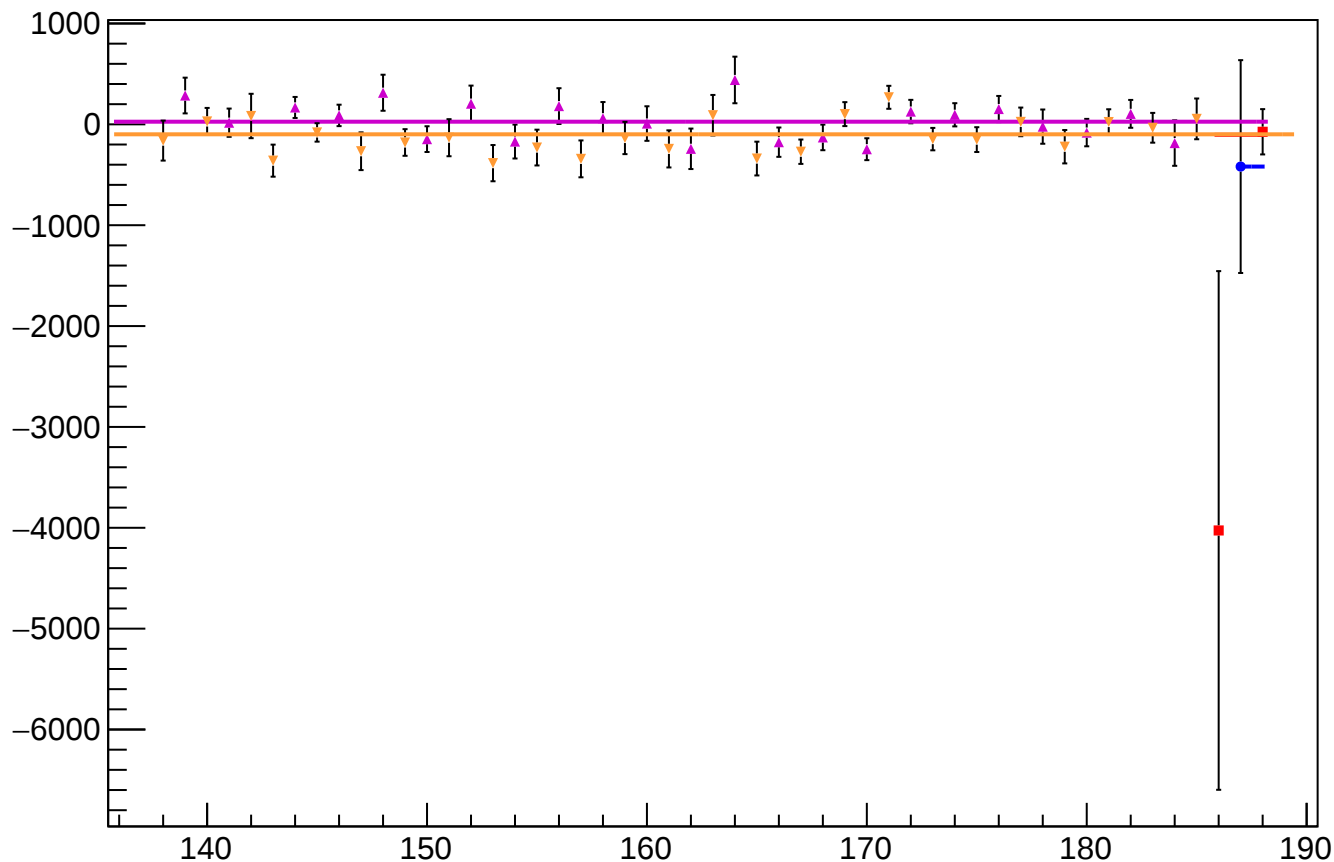
Right: 58.577 $\pm$ 0.039 χ^2 /NDF: 554320.0/2

In: 38.169 $\pm$ 0.006 χ^2 /NDF: 473221.4/23

Out: 38.373 $\pm$ 0.006 χ^2 /NDF: 1238914.5/26

All: 38.276 $\pm$ 0.004 χ^2 /NDF: 1712654.5/50

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -418.624 ± 1055.050 $\chi^2/\text{NDF}: 0.0/0$

Left Out: -98.741 ± 29.095 $\chi^2/\text{NDF}: 32.7/24$

Right Out: -103.606 ± 223.720 $\chi^2/\text{NDF}: 2.3/1$

Left In: 26.223 ± 29.676 $\chi^2/\text{NDF}: 30.7/22$

Left: -37.493 ± 20.776 $\chi^2/\text{NDF}: 72.5/47$

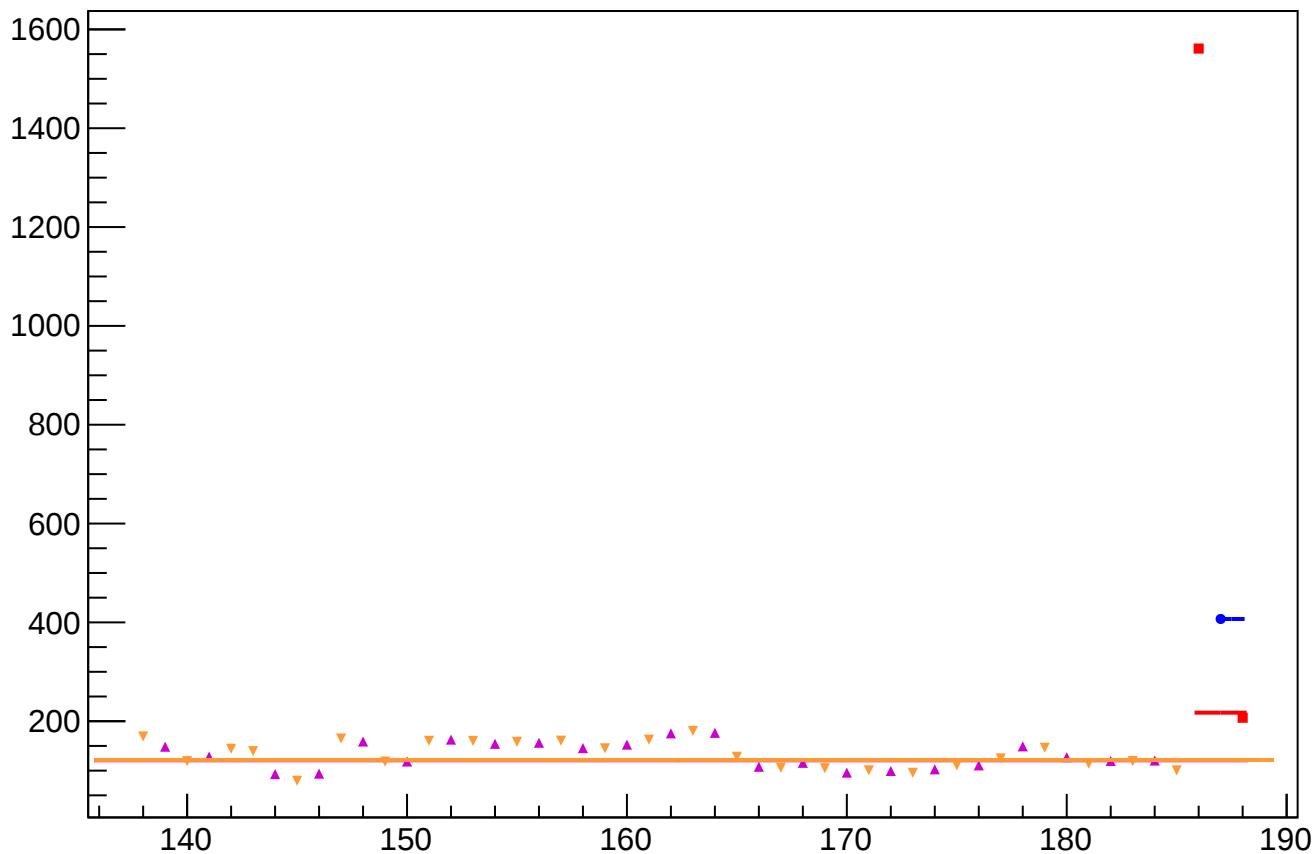
Right: -117.161 ± 218.854 $\chi^2/\text{NDF}: 2.4/2$

In: 25.871 ± 29.664 $\chi^2/\text{NDF}: 30.8/23$

Out: -98.822 ± 28.852 $\chi^2/\text{NDF}: 35.1/26$

All: -38.205 ± 20.683 $\chi^2/\text{NDF}: 75.0/50$

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 406.915 $\pm$ 0.746 χ^2 /NDF: 0.0/0

Left Out: 121.592 $\pm$ 0.021 χ^2 /NDF:1711423.9/24

Right Out: 217.293 $\pm$ 0.158 χ^2 /NDF: 550525.3/1

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

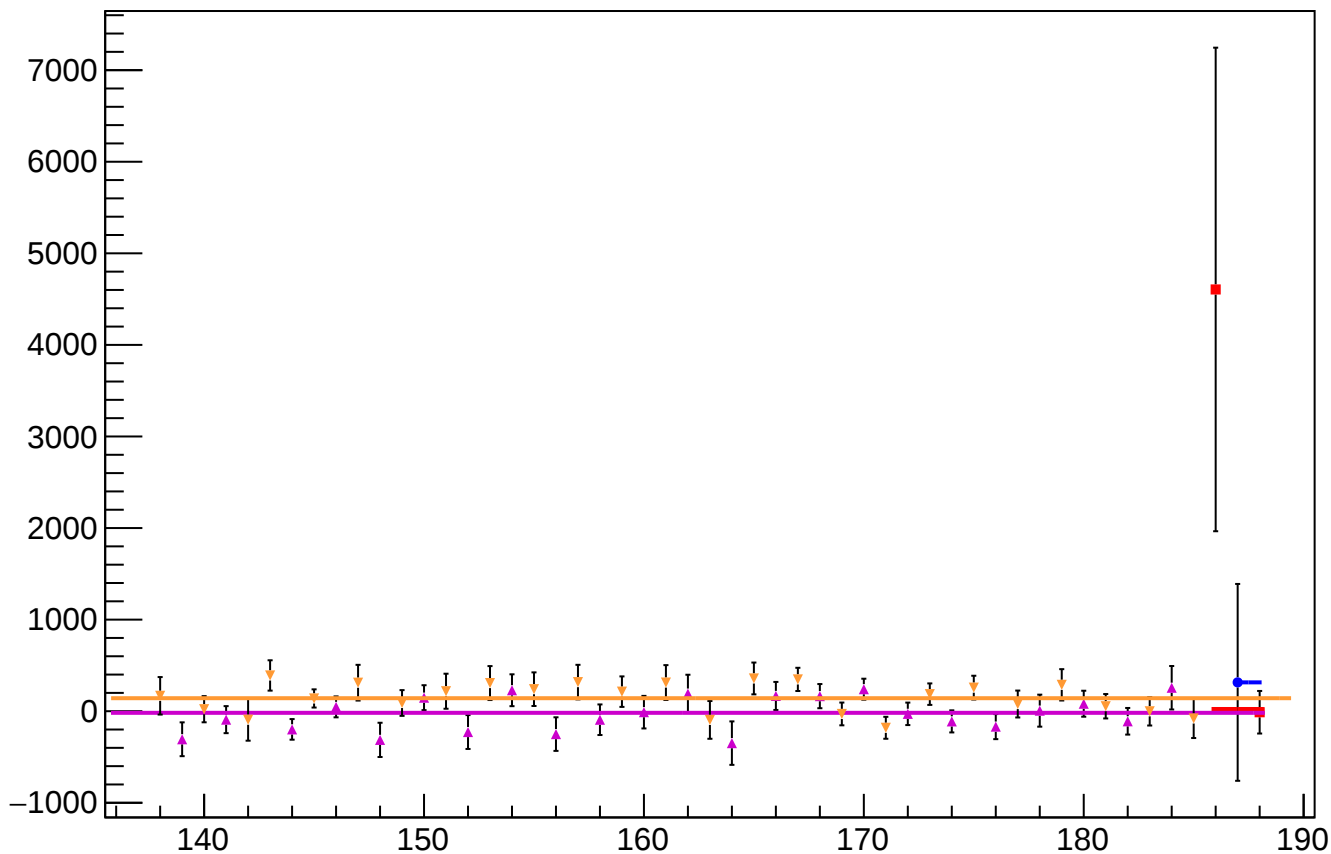
Right: 225.452 $\pm$ 0.155 χ^2 /NDF: 612349.4/2

In: 121.153 $\pm$ 0.021 χ^2 /NDF:1529698.4/23

Out: 123.184 $\pm$ 0.020 χ^2 /NDF:2621839.7/26

All: 122.197 $\pm$ 0.015 χ^2 /NDF: 4156354.7/50

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 314.856 $\pm$ 1074.786 χ^2 /NDF: 0.0/0

Left Out: 142.014 $\pm$ 30.574 χ^2 /NDF: 26.9/24

Right Out: 24.181 $\pm$ 231.516 χ^2 /NDF: 3.0/1

Left In: -17.679 $\pm$ 31.209 χ^2 /NDF: 30.1/22

Left: 63.807 $\pm$ 21.840 χ^2 /NDF: 70.4/47

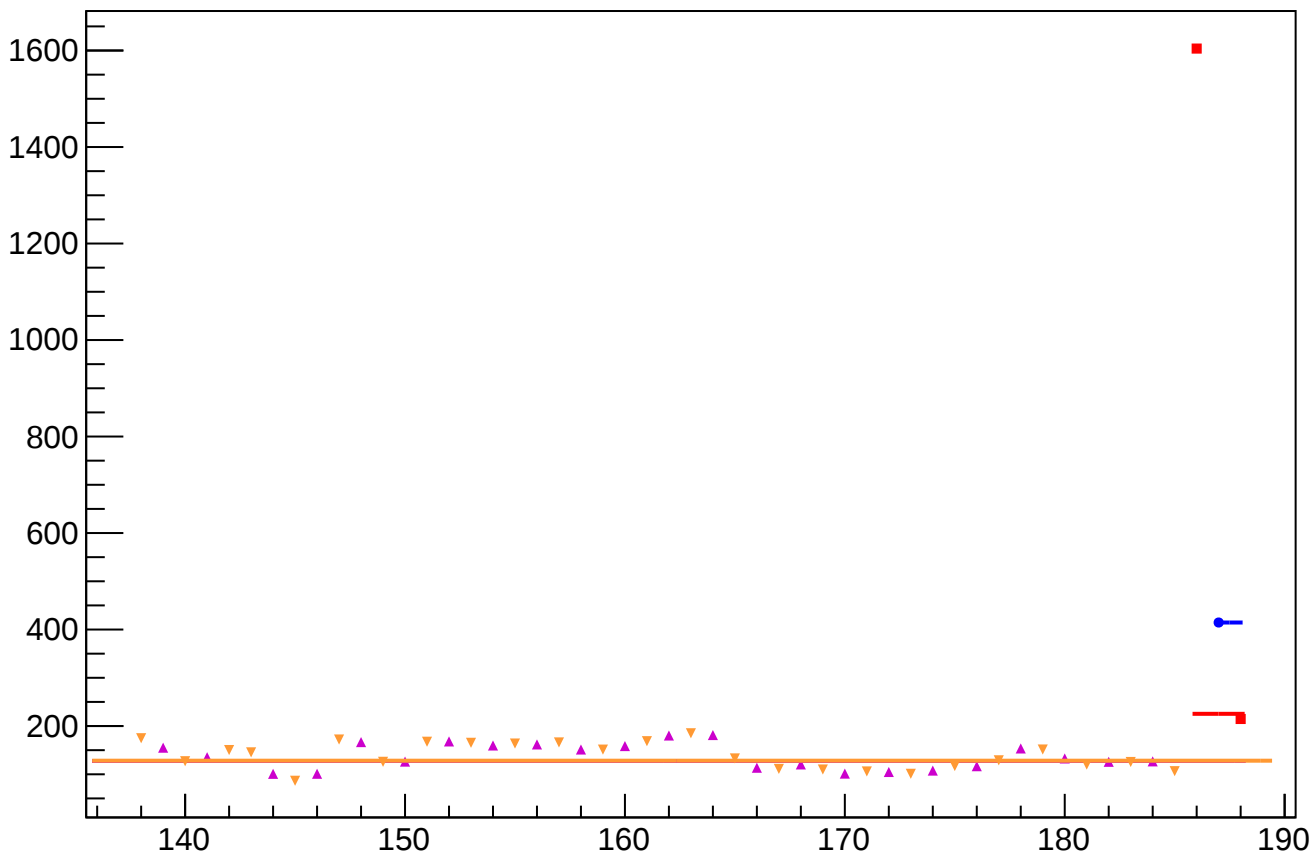
Right: 37.070 $\pm$ 226.325 χ^2 /NDF: 3.1/2

In: -17.399 $\pm$ 31.195 χ^2 /NDF: 30.2/23

Out: 139.994 $\pm$ 30.311 χ^2 /NDF: 30.2/26

All: 63.560 $\pm$ 21.739 χ^2 /NDF: 73.5/50

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 414.557 $\pm$ 0.760 χ^2 /NDF: 0.0/0

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 225.326 $\pm$ 0.164 χ^2 /NDF: 549610.5/1

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

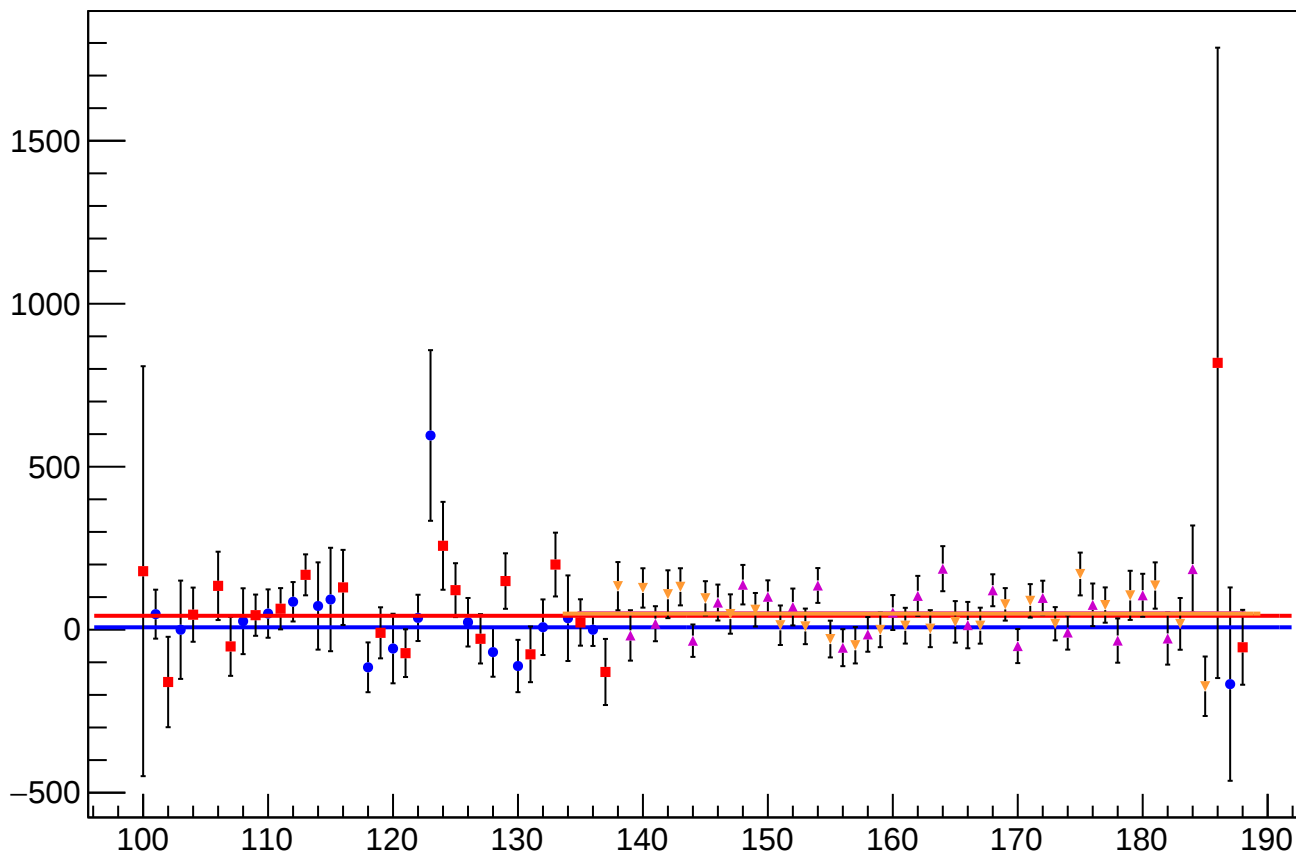
Right: 233.717 $\pm$ 0.160 χ^2 /NDF: 608858.5/2

In: 127.786 $\pm$ 0.022 χ^2 /NDF:1378208.5/23

Out: 129.840 $\pm$ 0.021 χ^2 /NDF:2428673.3/26

All: 128.843 $\pm$ 0.015 χ^2 /NDF: 3811345.5/50

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 7.370 ± 20.139 $\chi^2/\text{NDF}: 14.7/17$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 42.680 ± 19.182 $\chi^2/\text{NDF}: 26.3/20$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

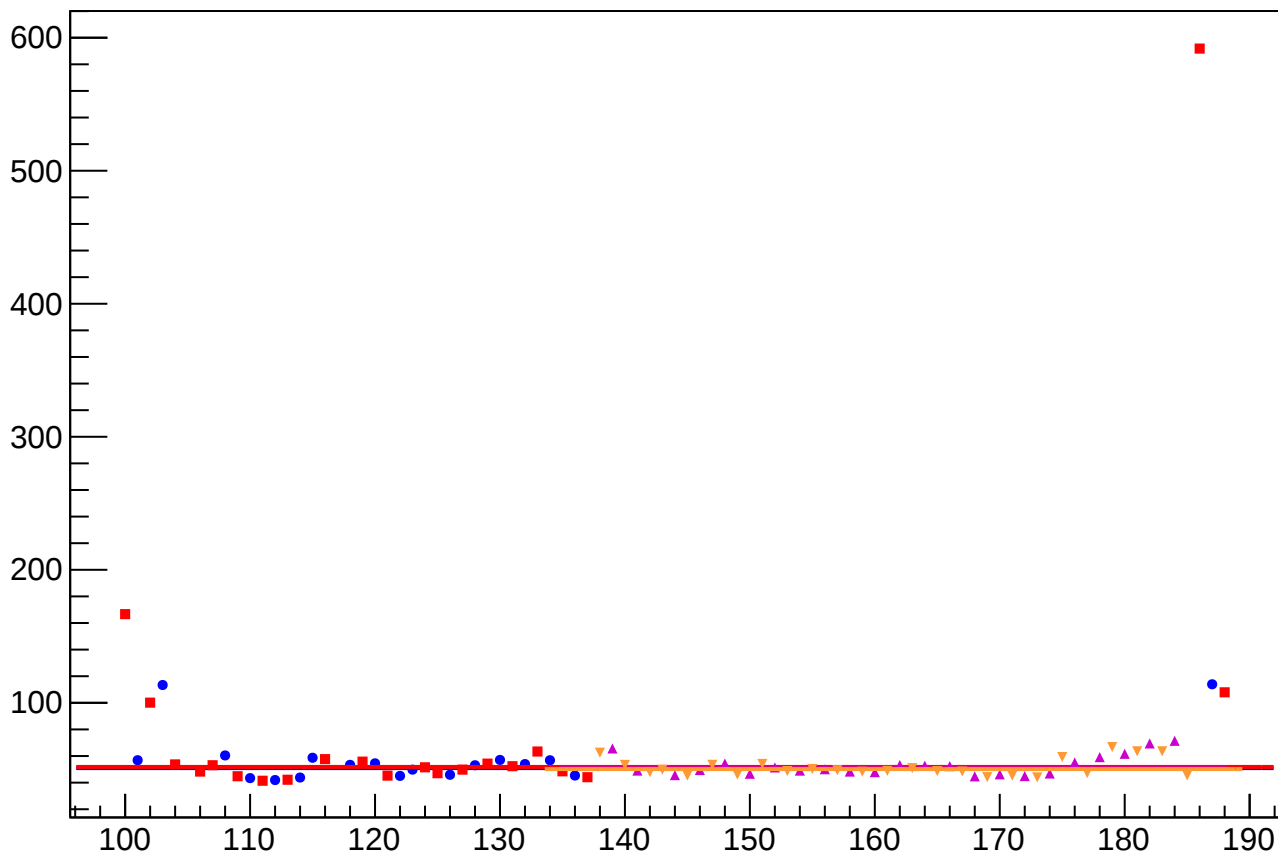
Right: 25.884 ± 13.890 $\chi^2/\text{NDF}: 42.6/38$

In: 38.724 ± 10.468 $\chi^2/\text{NDF}: 50.2/40$

Out: 47.555 ± 10.054 $\chi^2/\text{NDF}: 54.5/45$

All: 43.317 ± 7.251 $\chi^2/\text{NDF}: 105.1/86$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 50.929 $\pm$ 0.014 χ^2 /NDF: 610973.5/17

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 51.806 $\pm$ 0.014 χ^2 /NDF: 1619392.9/20

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

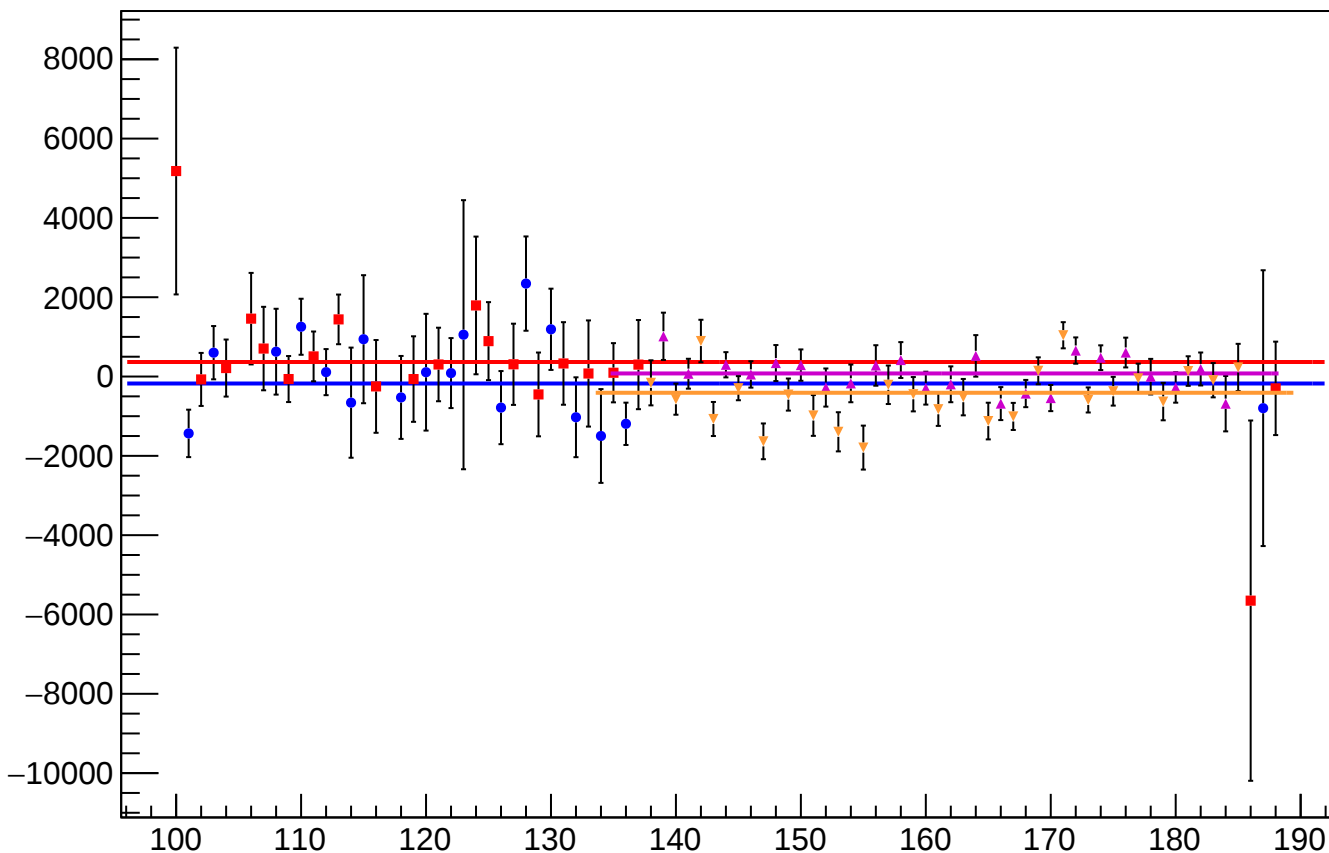
Right: 51.389 $\pm$ 0.010 χ^2 /NDF: 2232354.1/38

In: 50.750 $\pm$ 0.007 χ^2 /NDF: 1080484.1/40

Out: 50.634 $\pm$ 0.007 χ^2 /NDF: 2097376.6/45

All: 50.689 $\pm$ 0.005 χ^2 /NDF: 3177988.5/86

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -175.653+/-210.285 χ^2/NDF : 24.0/17

Left Out: -409.164+/-82.348 χ^2/NDF : 61.7/24

Right Out: 366.534+/-200.852 χ^2/NDF : 11.7/20

Left In: 77.872+/-84.072 χ^2/NDF : 24.8/22

Left: -170.691+/-58.829 χ^2/NDF : 103.6/47

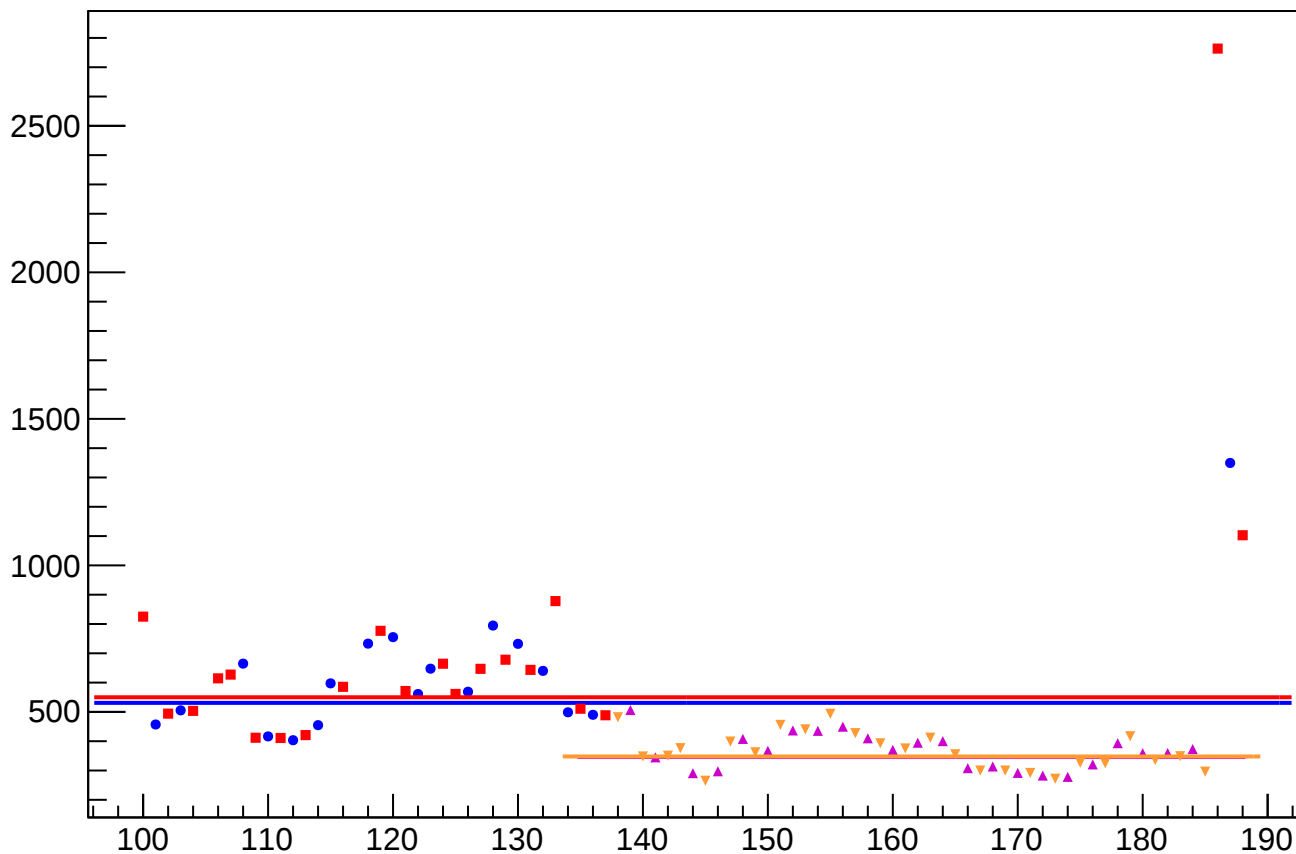
Right: 107.874+/-145.244 χ^2/NDF : 39.1/38

In: 42.933+/-78.065 χ^2/NDF : 50.1/40

Out: -297.536+/-76.193 χ^2/NDF : 86.1/45

All: -131.432+/-54.526 χ^2/NDF : 145.9/86

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 530.876+/-0.149 χ^2/NDF : 674721.3/17

Left Out: 347.875+/-0.058 χ^2/NDF : 1044096.7/24

Right Out: 549.940+/-0.142 χ^2/NDF : 1562358.8/20

Left In: 345.954+/-0.059 χ^2/NDF : 900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

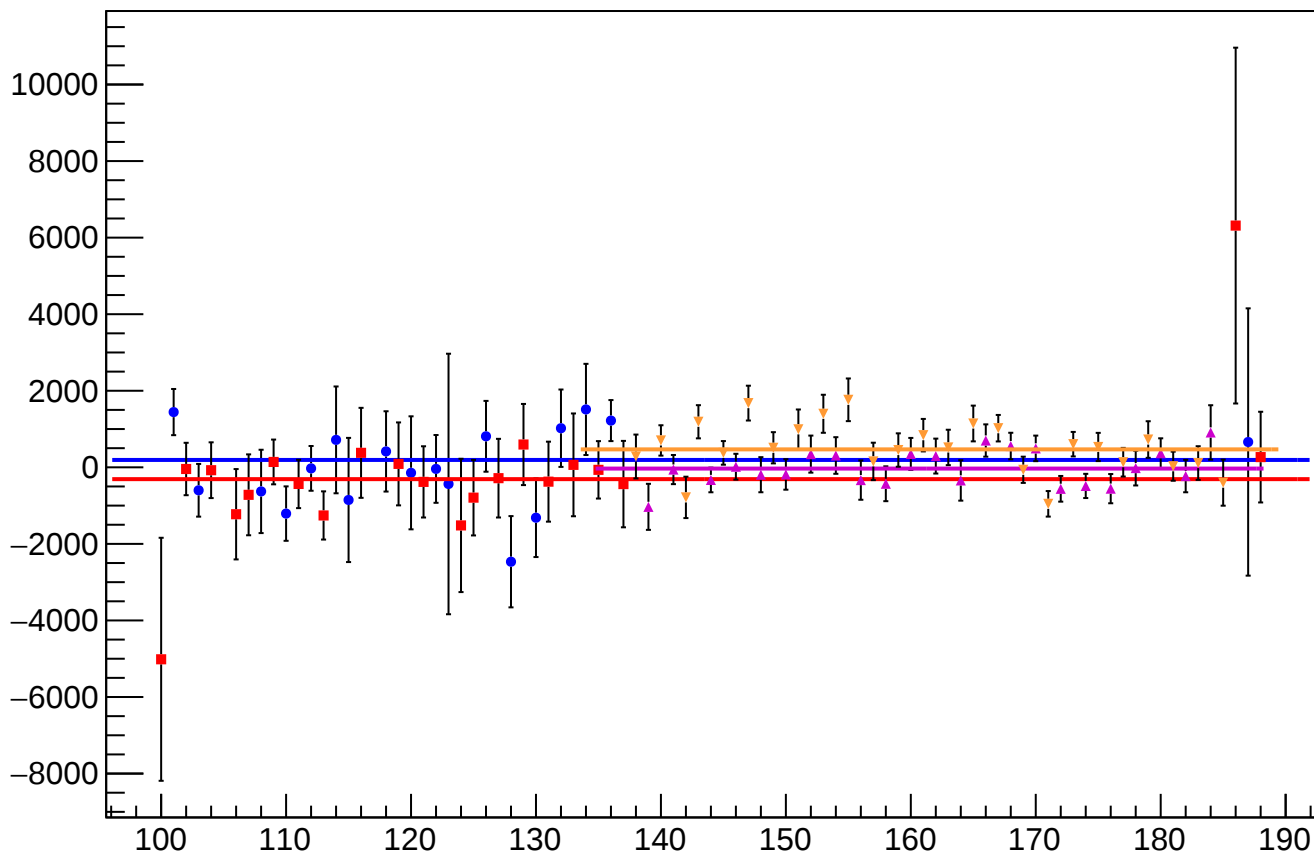
Right: 540.845+/-0.103 χ^2/NDF : 2245675.9/38

In: 371.439+/-0.055 χ^2/NDF : 2909057.7/40

Out: 376.954+/-0.054 χ^2/NDF : 4339384.5/45

All: 374.263+/-0.039 χ^2/NDF : 7253554.0/86

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 192.689 $\pm$ 211.765 χ^2 /NDF: 24.2/17

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -308.776 $\pm$ 202.397 χ^2 /NDF: 10.5/20

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

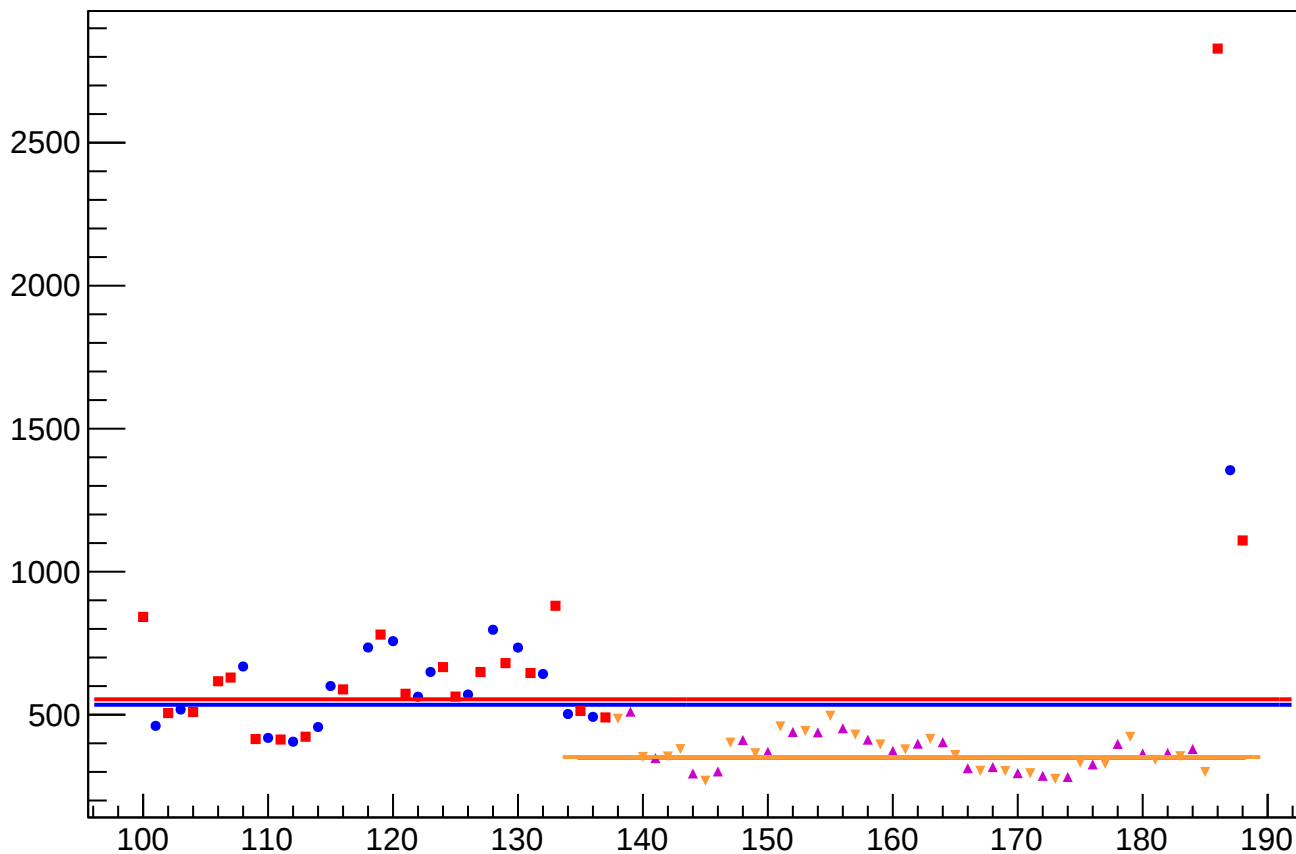
Right: -69.380 $\pm$ 146.316 χ^2 /NDF: 37.6/38

In: -1.472 $\pm$ 78.933 χ^2 /NDF:50.8/40

Out: 356.231 $\pm$ 77.027 χ^2 /NDF:80.6/45

All: 181.751 $\pm$ 55.128 χ^2 /NDF: 142.0/86

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 534.794 ± 0.150 $\chi^2/\text{NDF}: 666744.2/17$

Left Out: 352.015 ± 0.059 $\chi^2/\text{NDF}: 1017195.6/24$

Right Out: 553.895 ± 0.143 $\chi^2/\text{NDF}: 1557961.8/20$

Left In: 350.160 ± 0.060 $\chi^2/\text{NDF}: 878380.0/22$

Left: 351.107 ± 0.042 $\chi^2/\text{NDF}: 1896060.8/47$

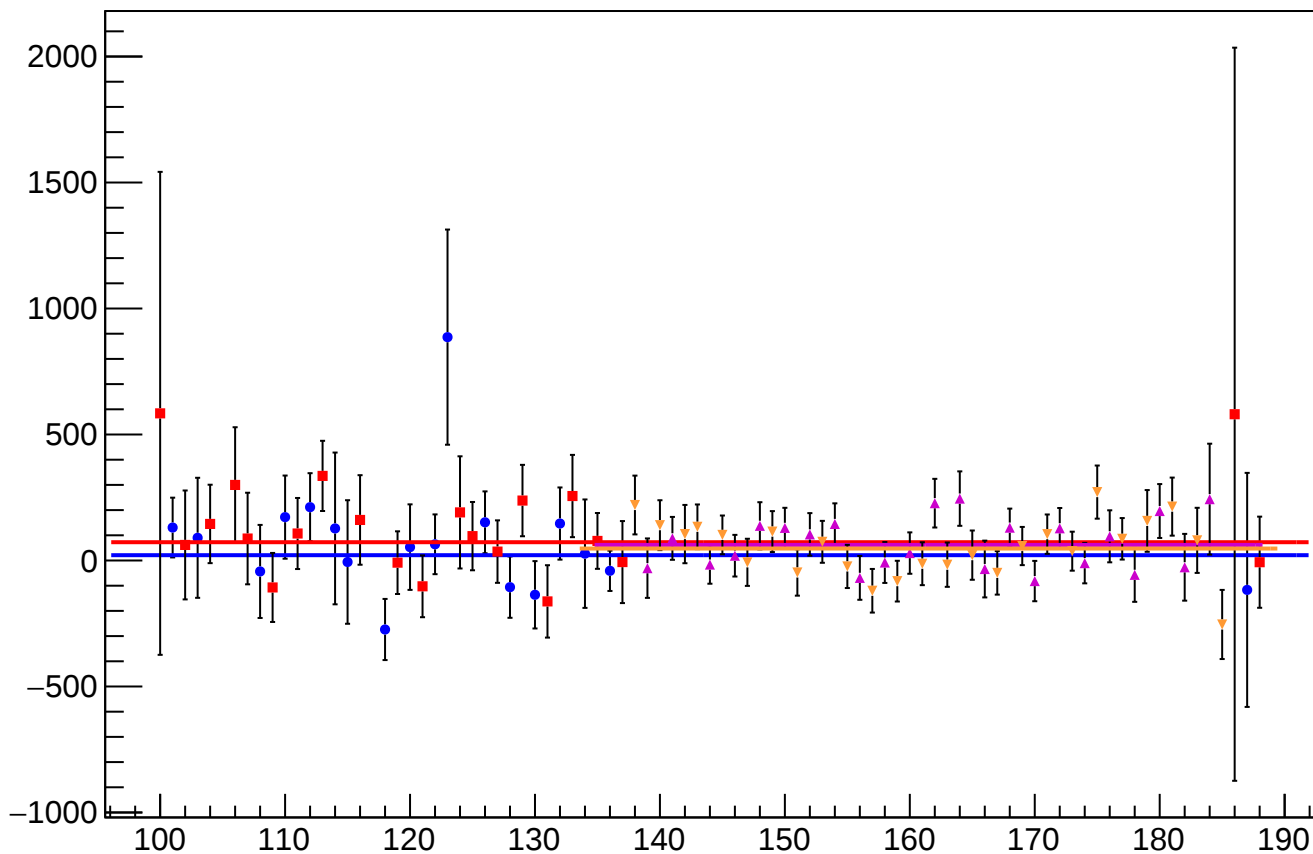
Right: 544.776 ± 0.103 $\chi^2/\text{NDF}: 2233209.4/38$

In: 375.813 ± 0.056 $\chi^2/\text{NDF}: 2854245.8/40$

Out: 381.255 ± 0.054 $\chi^2/\text{NDF}: 4276755.0/45$

All: 378.600 ± 0.039 $\chi^2/\text{NDF}: 7135870.2/86$

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 21.067 $\pm$ 34.542 χ^2 /NDF: 19.3/17

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 72.559 $\pm$ 34.164 χ^2 /NDF: 15.8/20

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

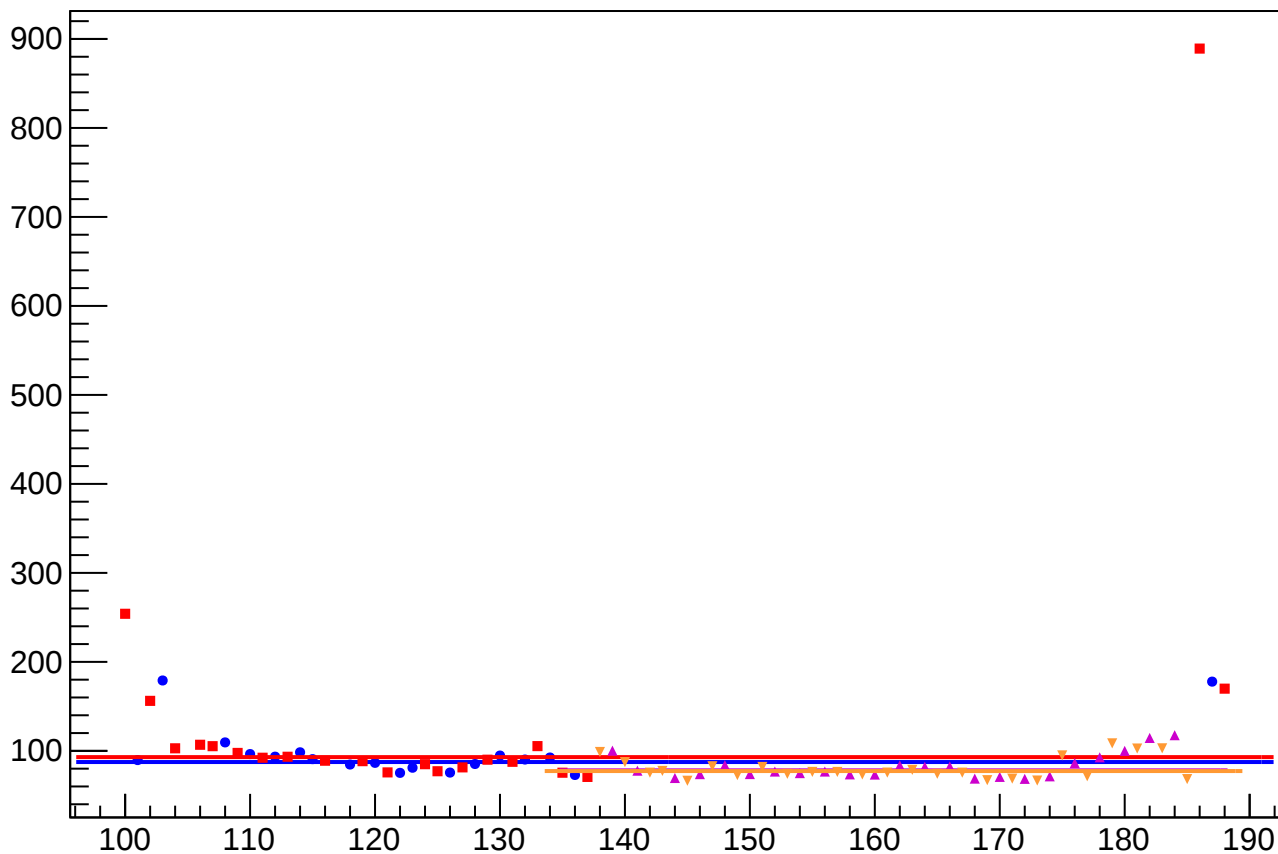
Right: 47.096 $\pm$ 24.290 χ^2 /NDF: 36.2/38

In: 52.394 $\pm$ 16.619 χ^2 /NDF:44.3/40

Out: 53.007 $\pm$ 16.099 χ^2 /NDF:45.6/45

All: 52.710 $\pm$ 11.563 χ^2 /NDF: 89.9/86

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 87.452 $\pm$ 0.024 χ^2 /NDF: 529760.0/17

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 92.978 $\pm$ 0.024 χ^2 /NDF: 1408242.5/20

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

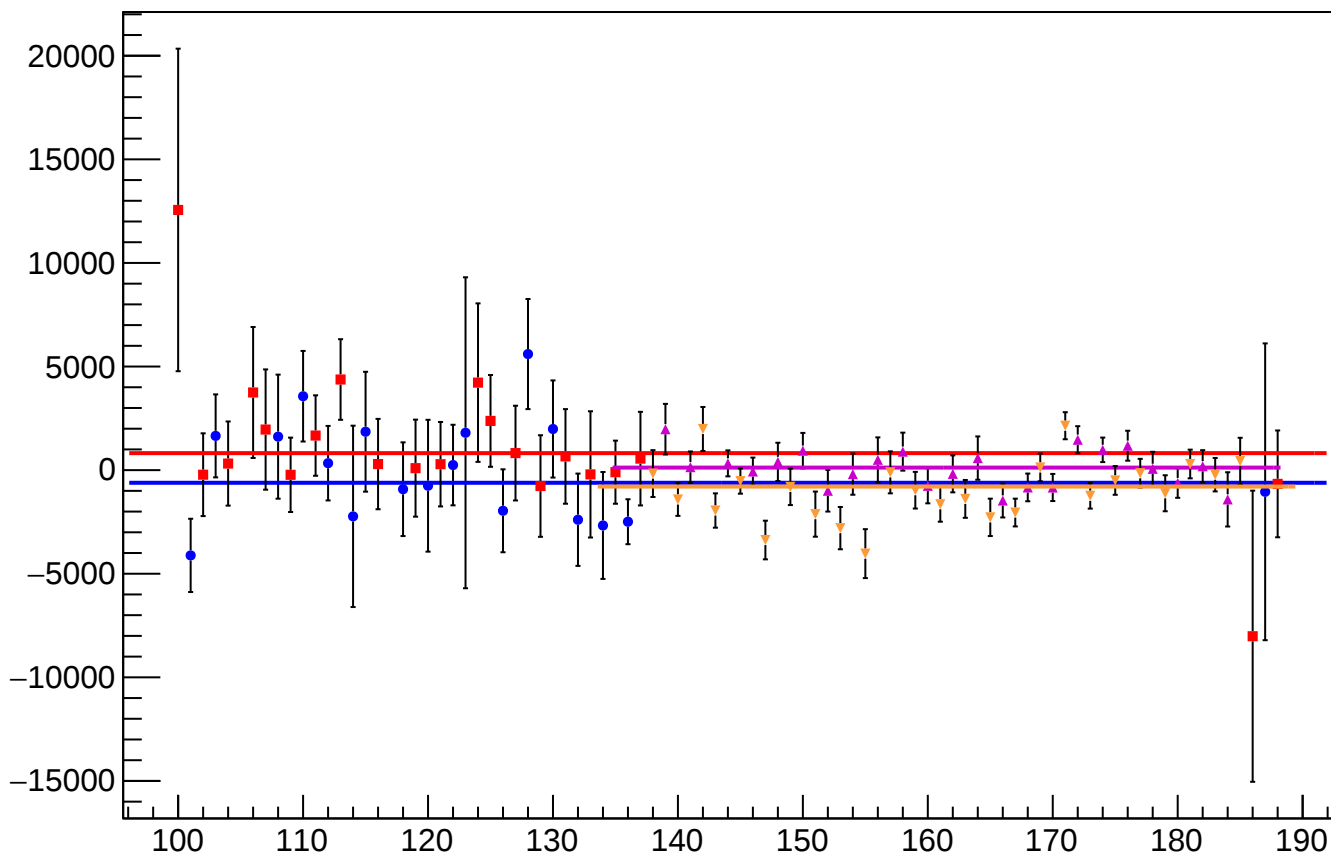
Right: 90.245 $\pm$ 0.017 χ^2 /NDF: 1963878.7/38

In: 80.295 $\pm$ 0.012 χ^2 /NDF: 1223597.1/40

Out: 80.794 $\pm$ 0.011 χ^2 /NDF: 2370835.6/45

All: 80.552 $\pm$ 0.008 χ^2 /NDF: 3595364.5/86

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -609.981 ± 516.869 $\chi^2/\text{NDF}: 22.3/17$

Left Out: -792.776 ± 162.659 $\chi^2/\text{NDF}: 66.6/24$

Right Out: 820.904 ± 504.447 $\chi^2/\text{NDF}: 11.8/20$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

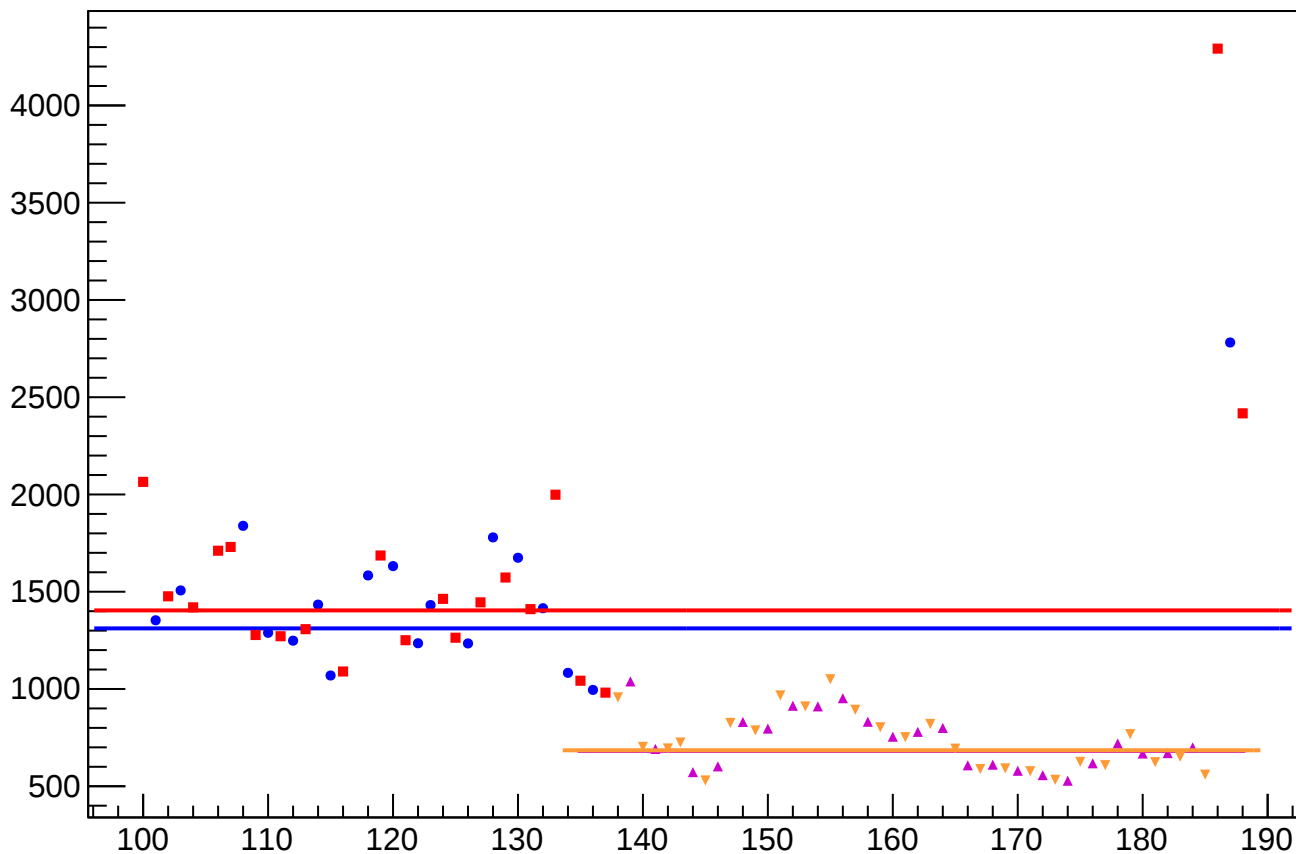
Right: 122.861 ± 361.010 $\chi^2/\text{NDF}: 38.1/38$

In: 53.592 ± 158.216 $\chi^2/\text{NDF}: 50.1/40$

Out: -640.797 ± 154.810 $\chi^2/\text{NDF}: 87.7/45$

All: -301.157 ± 110.652 $\chi^2/\text{NDF}: 147.6/86$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1311.505+/-0.365 χ^2/NDF : 540698.3/17

Left Out: 684.785+/-0.115 χ^2/NDF : 1280146.2/24

Right Out: 1403.949+/-0.357 χ^2/NDF : 1092009.2/20

Left In: 681.712+/-0.118 χ^2/NDF : 1119637.0/22

Left: 683.282+/-0.082 χ^2/NDF : 2400132.5/47

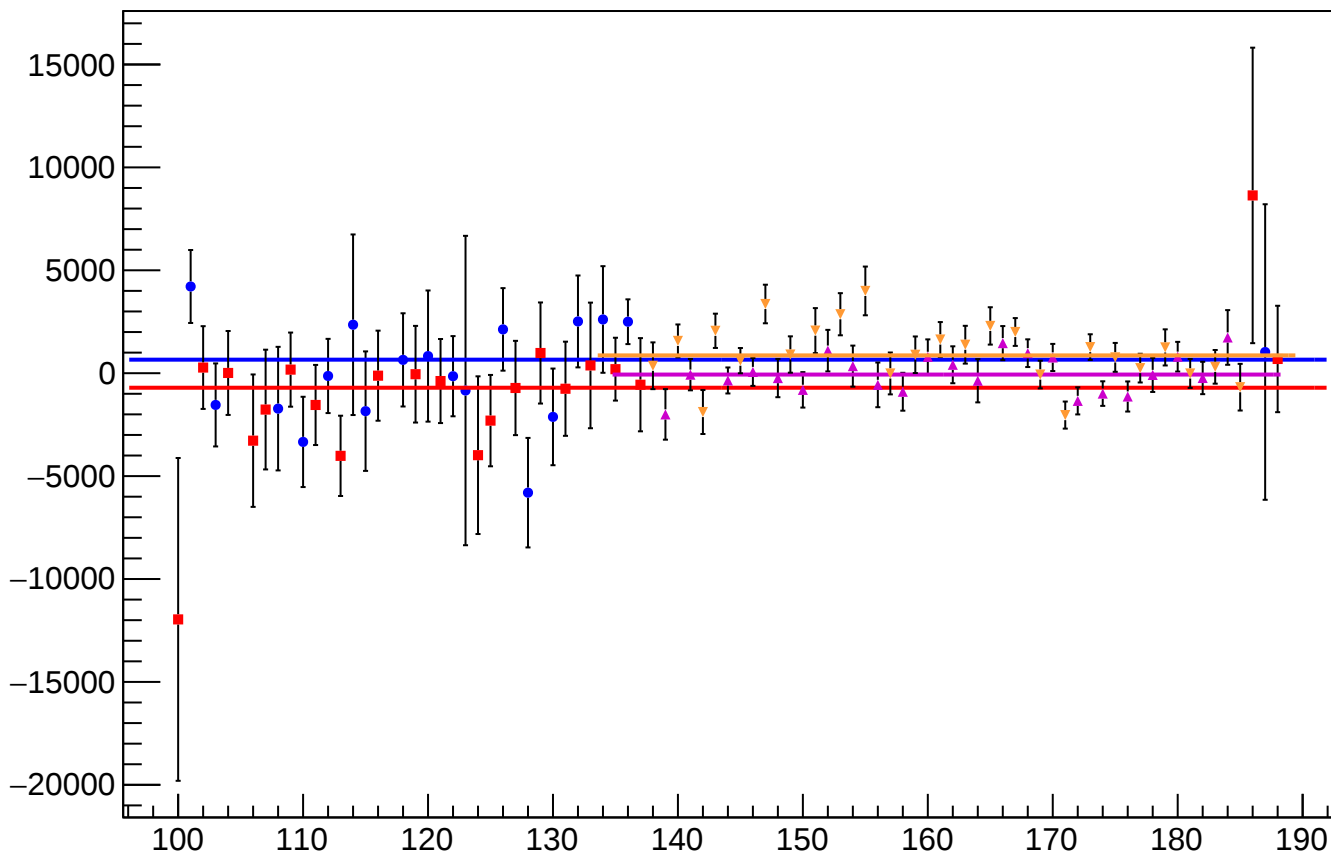
Right: 1358.851+/-0.255 χ^2/NDF : 1665474.7/38

In: 740.724+/-0.112 χ^2/NDF : 4351477.2/40

Out: 752.517+/-0.109 χ^2/NDF : 6054256.9/45

All: 746.748+/-0.078 χ^2/NDF : 10411410.9/86

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 657.725 $\pm$ 518.339 χ^2 /NDF: 22.4/17

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -705.779 $\pm$ 506.157 χ^2 /NDF: 10.9/20

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

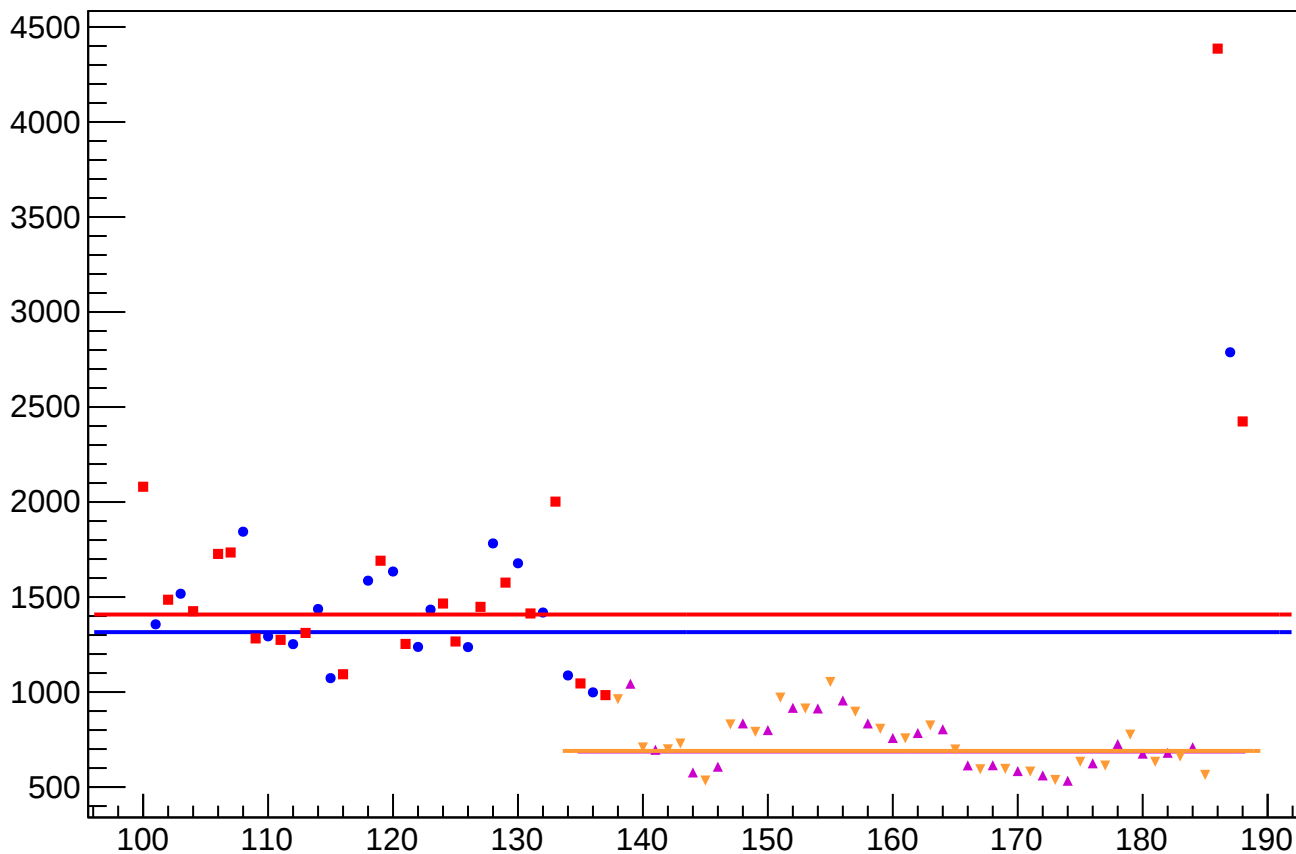
Right: -40.237 $\pm$ 362.137 χ^2 /NDF: 36.8/38

In: 2.486 $\pm$ 159.371 χ^2 /NDF:50.6/40

Out: 716.492 $\pm$ 155.916 χ^2 /NDF:82.4/45

All: 367.313 $\pm$ 111.451 χ^2 /NDF: 143.3/86

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1315.300+/-0.367 χ^2/NDF : 539736.1/17

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1407.951+/-0.358 χ^2/NDF : 1099253.6/20

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

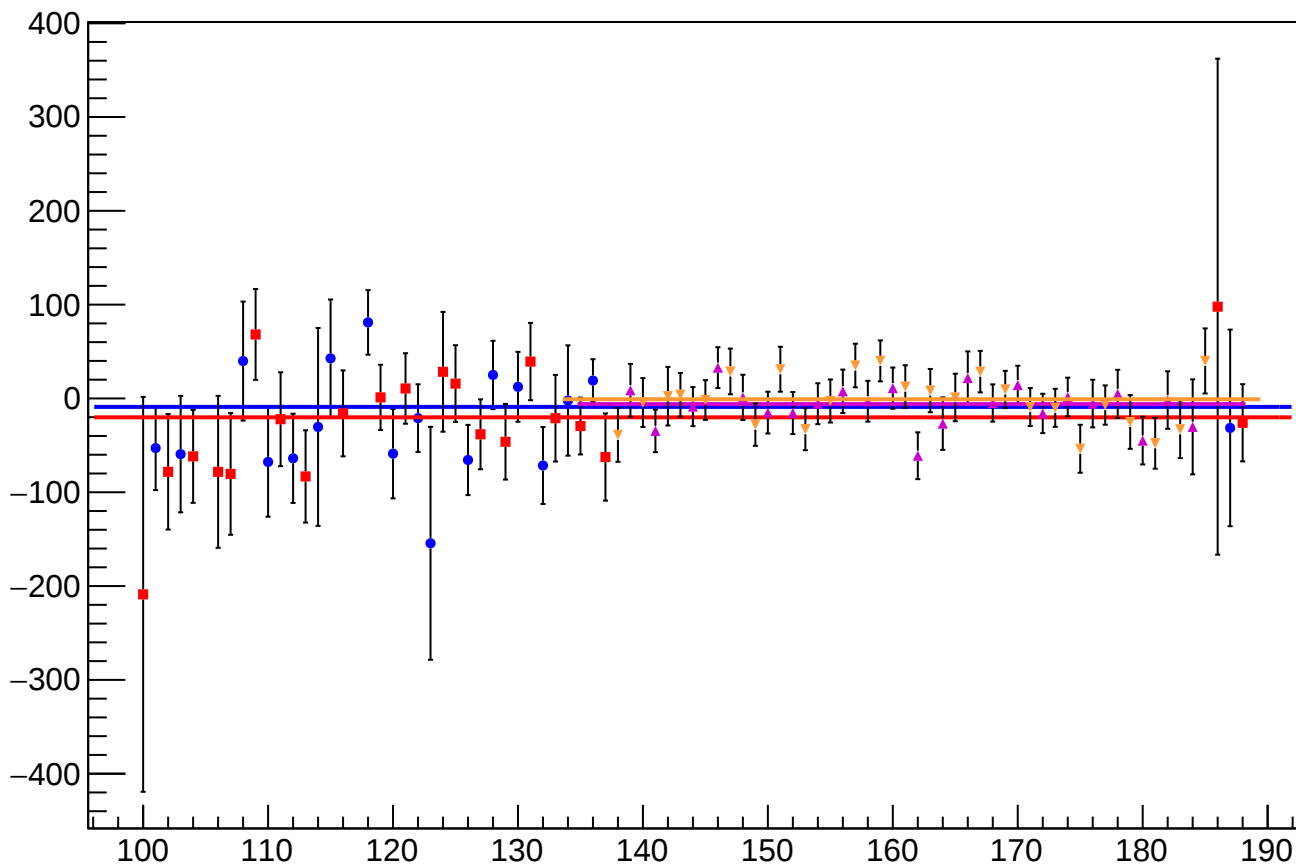
Right: 1362.727+/-0.256 χ^2/NDF : 1671699.2/38

In: 746.592+/-0.113 χ^2/NDF : 4298389.4/40

Out: 758.276+/-0.110 χ^2/NDF : 5997818.3/45

All: 752.562+/-0.079 χ^2/NDF : 10301699.5/86

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -9.010 ± 10.371 $\chi^2/\text{NDF}: 22.1/17$

Left Out: -0.861 ± 4.760 $\chi^2/\text{NDF}: 27.9/24$

Right Out: -20.140 ± 10.139 $\chi^2/\text{NDF}: 15.0/20$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

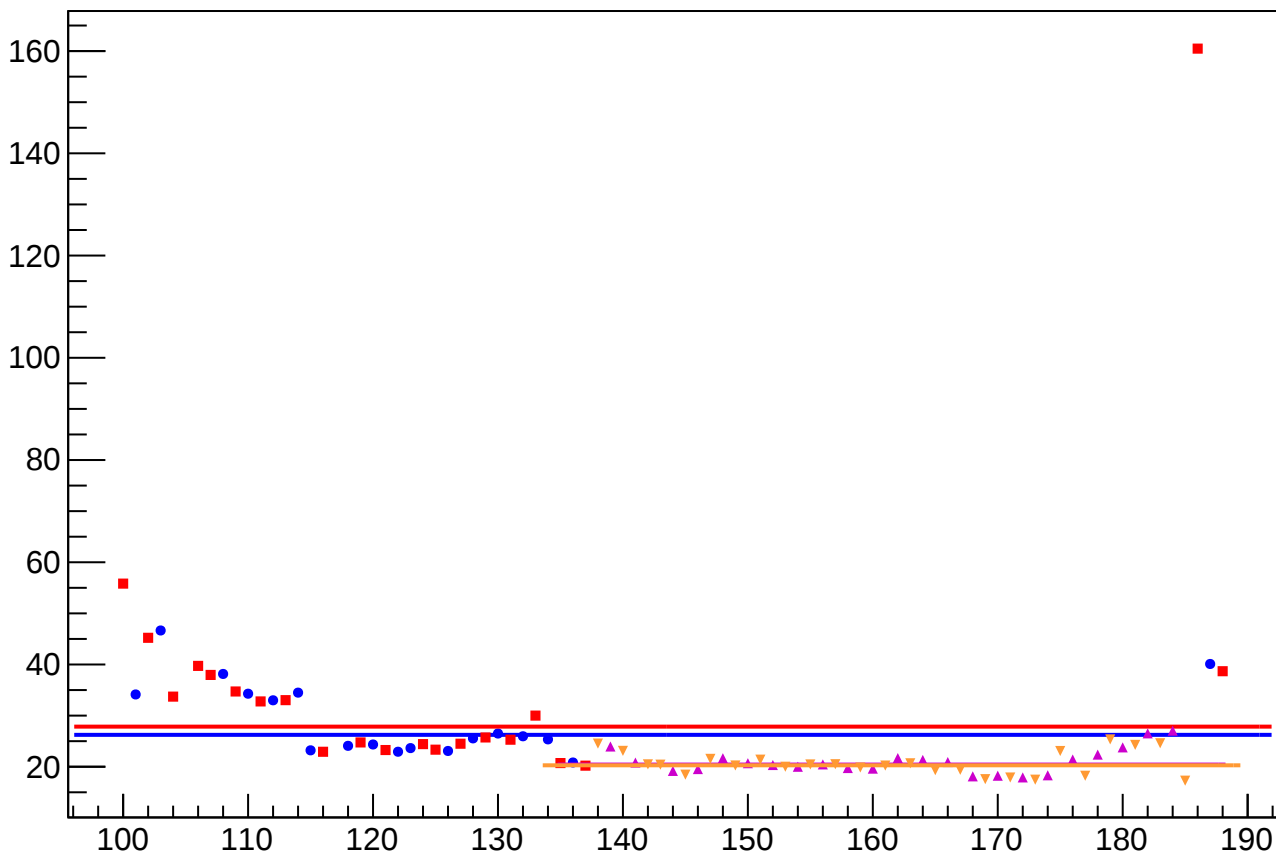
Right: -14.701 ± 7.250 $\chi^2/\text{NDF}: 37.7/38$

In: -6.588 ± 4.449 $\chi^2/\text{NDF}: 39.1/40$

Out: -4.343 ± 4.309 $\chi^2/\text{NDF}: 45.9/45$

All: -5.430 ± 3.095 $\chi^2/\text{NDF}: 85.1/86$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.237 ± 0.007 $\chi^2/\text{NDF}: 636872.9/17$

Left Out: 20.279 ± 0.003 $\chi^2/\text{NDF}: 407056.4/24$

Right Out: 27.845 ± 0.007 $\chi^2/\text{NDF}: 1335502.5/20$

Left In: 20.424 ± 0.003 $\chi^2/\text{NDF}: 323427.4/22$

Left: 20.349 ± 0.002 $\chi^2/\text{NDF}: 731373.7/47$

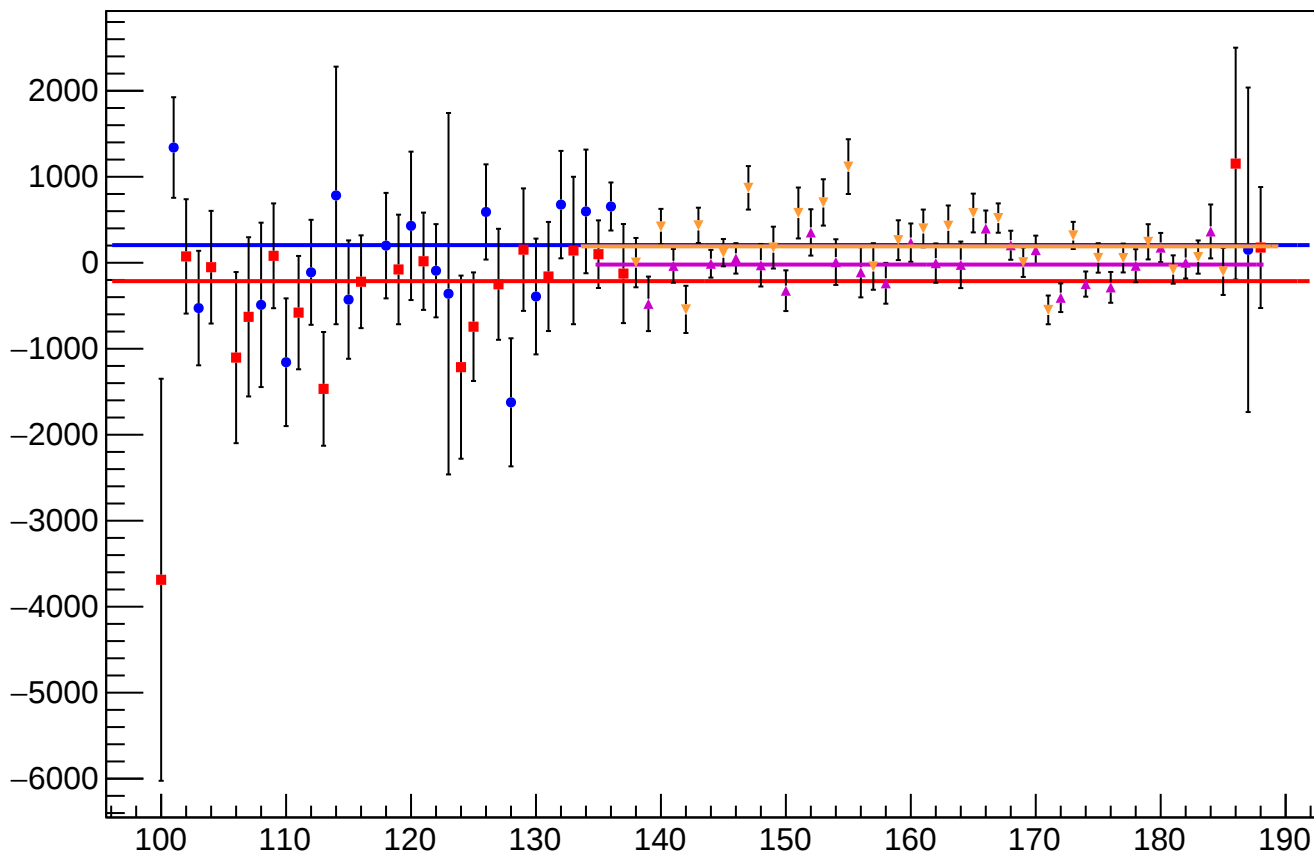
Right: 27.059 ± 0.005 $\chi^2/\text{NDF}: 1996965.6/38$

In: 21.494 ± 0.003 $\chi^2/\text{NDF}: 1472995.5/40$

Out: 21.646 ± 0.003 $\chi^2/\text{NDF}: 2655122.0/45$

All: 21.572 ± 0.002 $\chi^2/\text{NDF}: 4129327.5/86$

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 205.270 $\pm$ 147.741 χ^2 /NDF: 21.3/17

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -213.568 $\pm$ 146.015 χ^2 /NDF: 11.8/20

Left In: -20.998 $\pm$ 42.291 χ^2 /NDF: 27.7/22

Left: 87.410 $\pm$ 29.553 χ^2 /NDF: 108.4/47

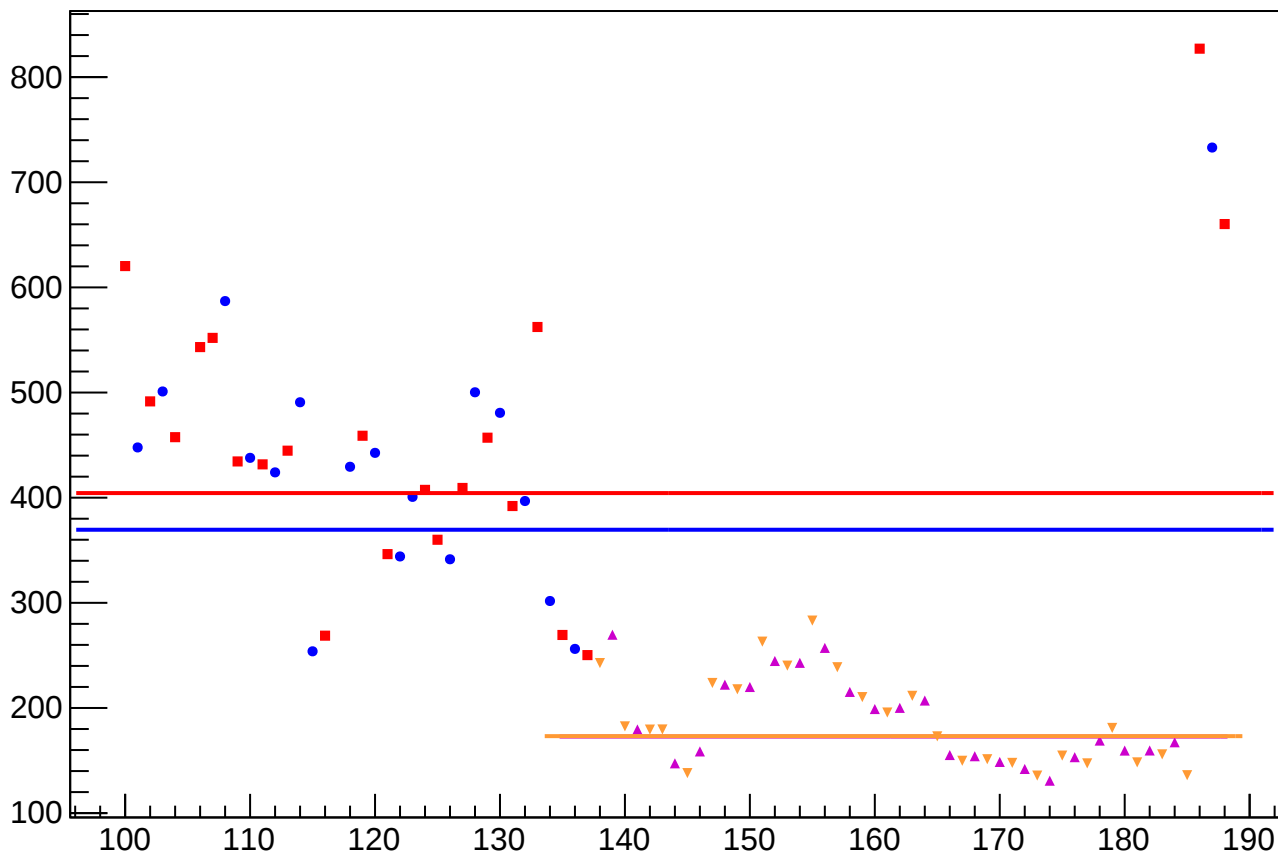
Right: -6.609 $\pm$ 103.853 χ^2 /NDF: 37.2/38

In: -3.862 $\pm$ 40.658 χ^2 /NDF: 51.2/40

Out: 160.890 $\pm$ 39.753 χ^2 /NDF: 86.8/45

All: 80.367 $\pm$ 28.424 χ^2 /NDF: 146.4/86

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 369.514 $\pm$ 0.104 χ^2 /NDF: 904253.5/17

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 404.384 $\pm$ 0.103 χ^2 /NDF: 1261320.0/20

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

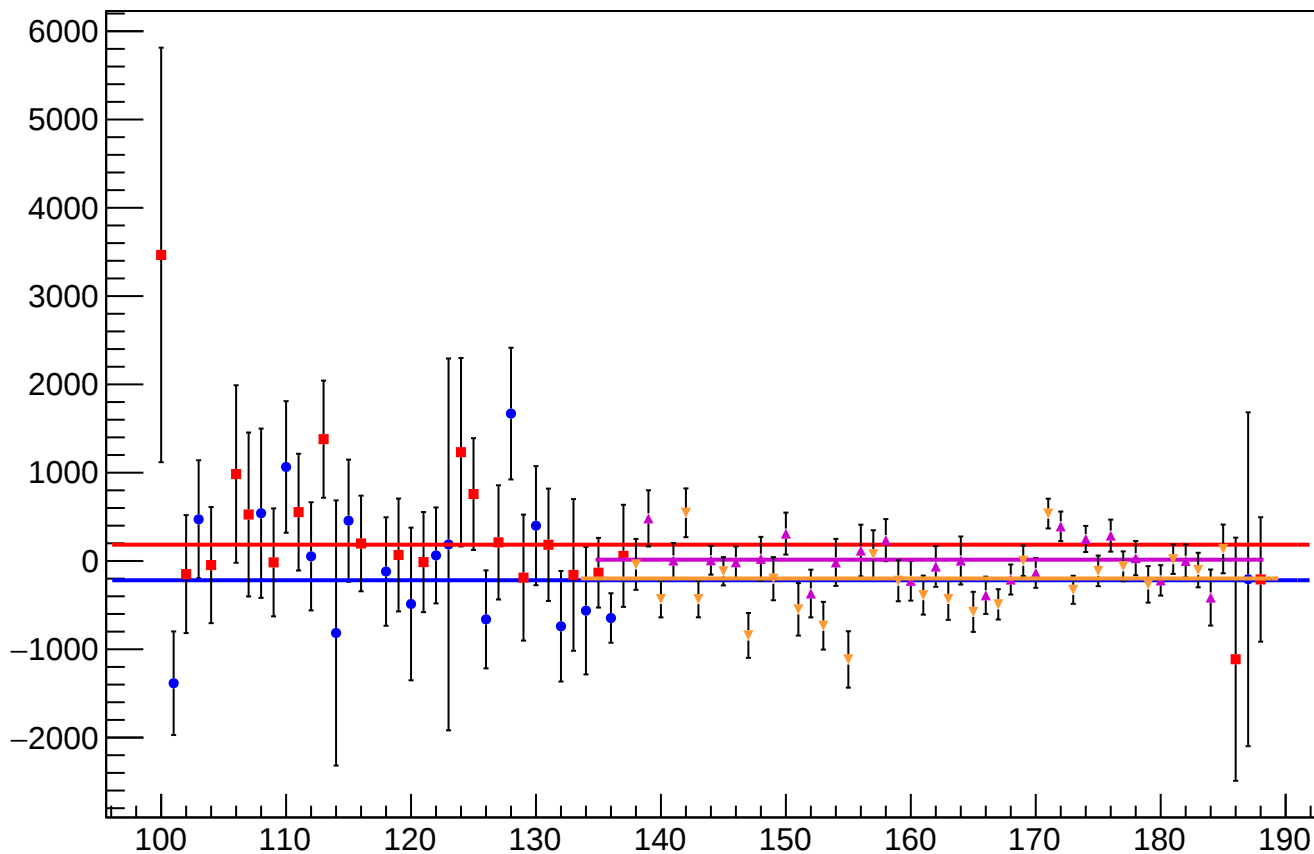
Right: 387.153 $\pm$ 0.073 χ^2 /NDF: 2221933.9/38

In: 187.723 $\pm$ 0.029 χ^2 /NDF:5552599.7/40

Out: 190.345 $\pm$ 0.028 χ^2 /NDF:7464119.0/45

All: 189.064 $\pm$ 0.020 χ^2 /NDF: 13020969.9/86

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -218.401 ± 148.171 $\chi^2/\text{NDF}: 21.5/17$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 184.427 ± 146.477 $\chi^2/\text{NDF}: 11.0/20$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

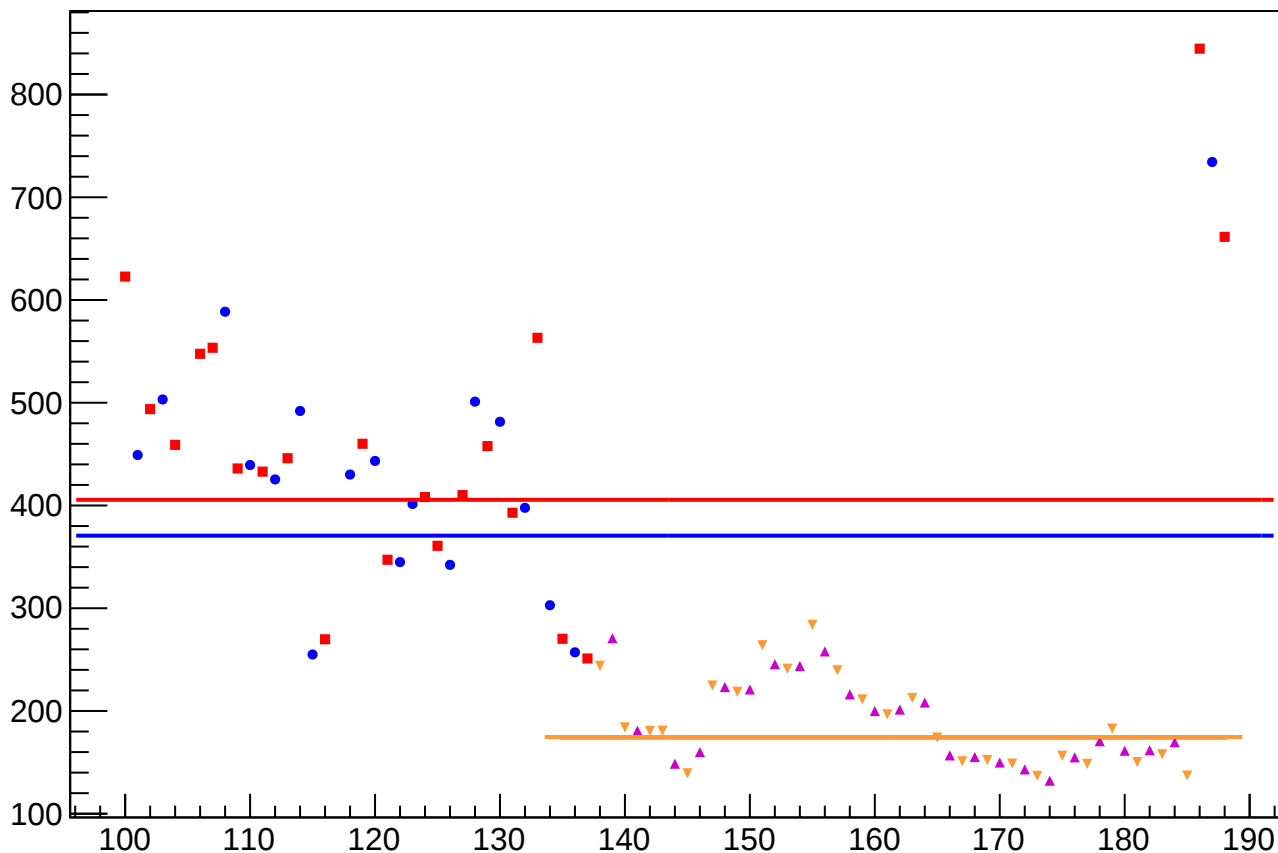
Right: -14.671 ± 104.169 $\chi^2/\text{NDF}: 36.2/38$

In: -3.197 ± 40.968 $\chi^2/\text{NDF}: 51.5/40$

Out: -169.332 ± 40.051 $\chi^2/\text{NDF}: 81.6/45$

All: -88.143 ± 28.639 $\chi^2/\text{NDF}: 141.5/86$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 370.640 $\pm$ 0.105 χ^2 /NDF: 901435.6/17

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF: 1531999.5/24

Right Out: 405.556 $\pm$ 0.104 χ^2 /NDF: 1267424.5/20

Left In: 174.288 $\pm$ 0.030 χ^2 /NDF: 1344779.5/22

Left: 174.472 $\pm$ 0.021 χ^2 /NDF: 2876851.9/47

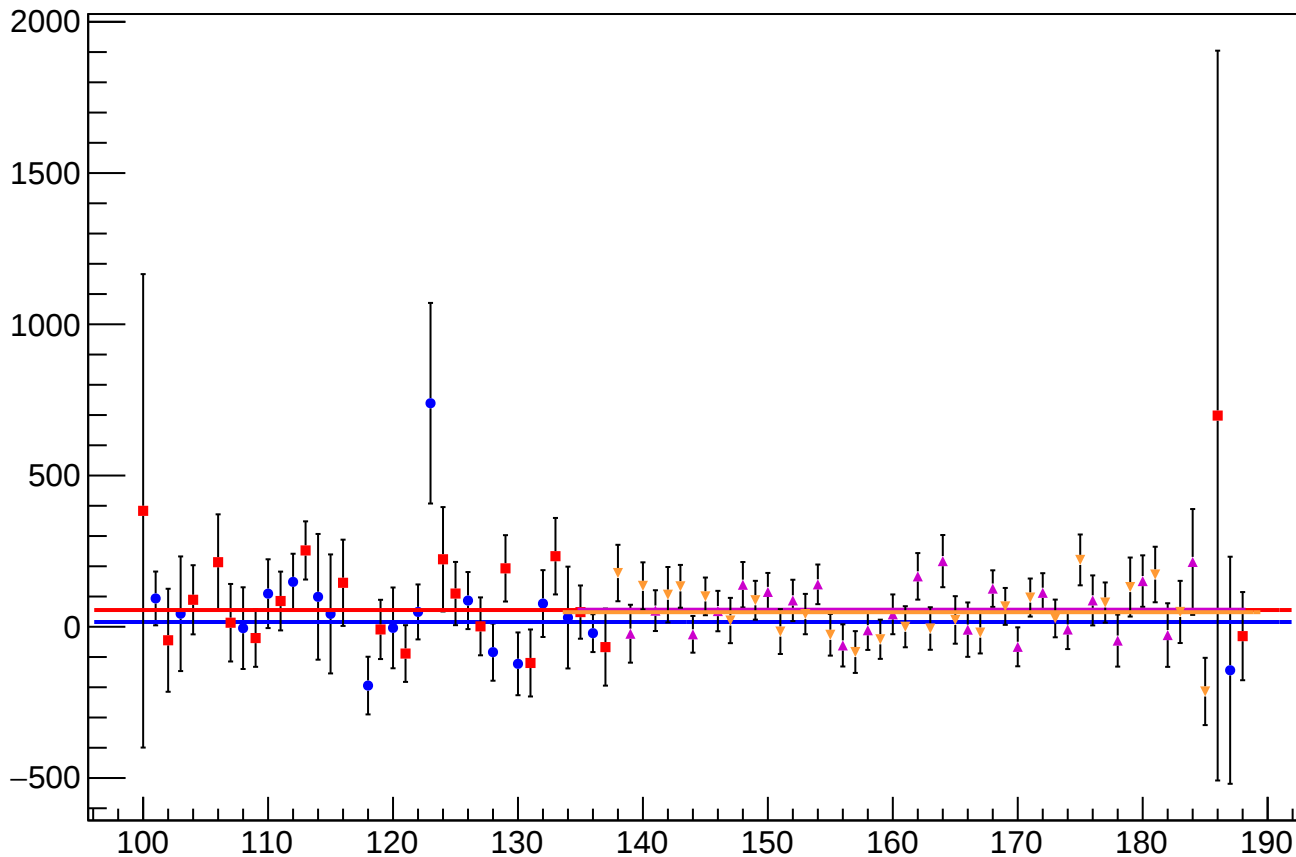
Right: 388.298 $\pm$ 0.074 χ^2 /NDF: 2225027.9/38

In: 189.298 $\pm$ 0.029 χ^2 /NDF: 5489861.3/40

Out: 191.912 $\pm$ 0.028 χ^2 /NDF: 7397966.1/45

All: 190.635 $\pm$ 0.020 χ^2 /NDF: 12891988.1/86

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 15.773+/-26.312 χ^2/NDF : 17.8/17

Left Out: 48.233+/-14.616 χ^2/NDF : 29.3/24

Right Out: 55.354+/-25.777 χ^2/NDF : 19.3/20

Left In: 56.403+/-15.182 χ^2/NDF : 27.5/22

Left: 52.163+/-10.529 χ^2/NDF : 56.9/47

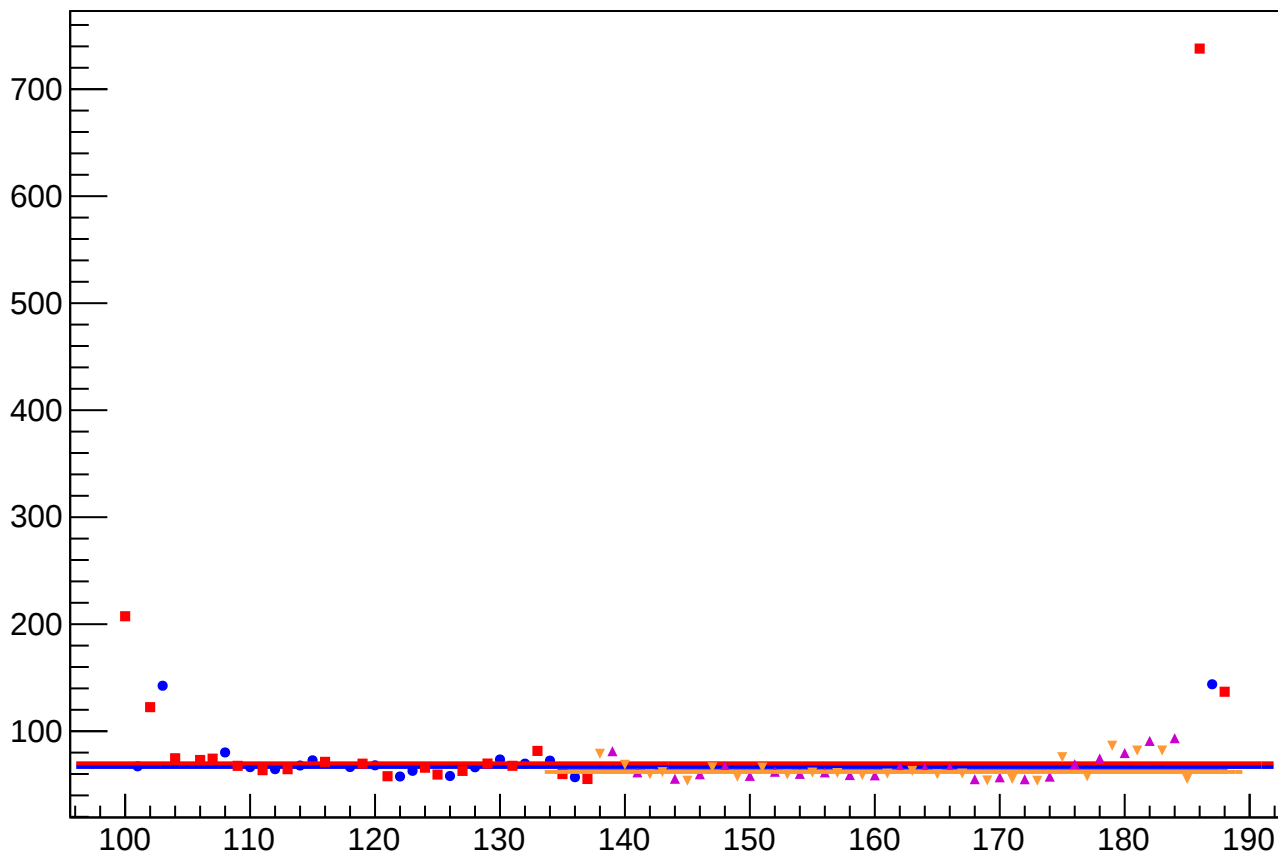
Right: 35.970+/-18.413 χ^2/NDF : 38.2/38

In: 46.255+/-13.150 χ^2/NDF : 47.0/40

Out: 49.965+/-12.714 χ^2/NDF : 48.6/45

All: 48.173+/-9.140 χ^2/NDF : 95.7/86

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 66.634+/-0.019 χ^2/NDF : 524716.7/17

Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24

Right Out: 69.970+/-0.018 χ^2/NDF : 1444898.0/20

Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47

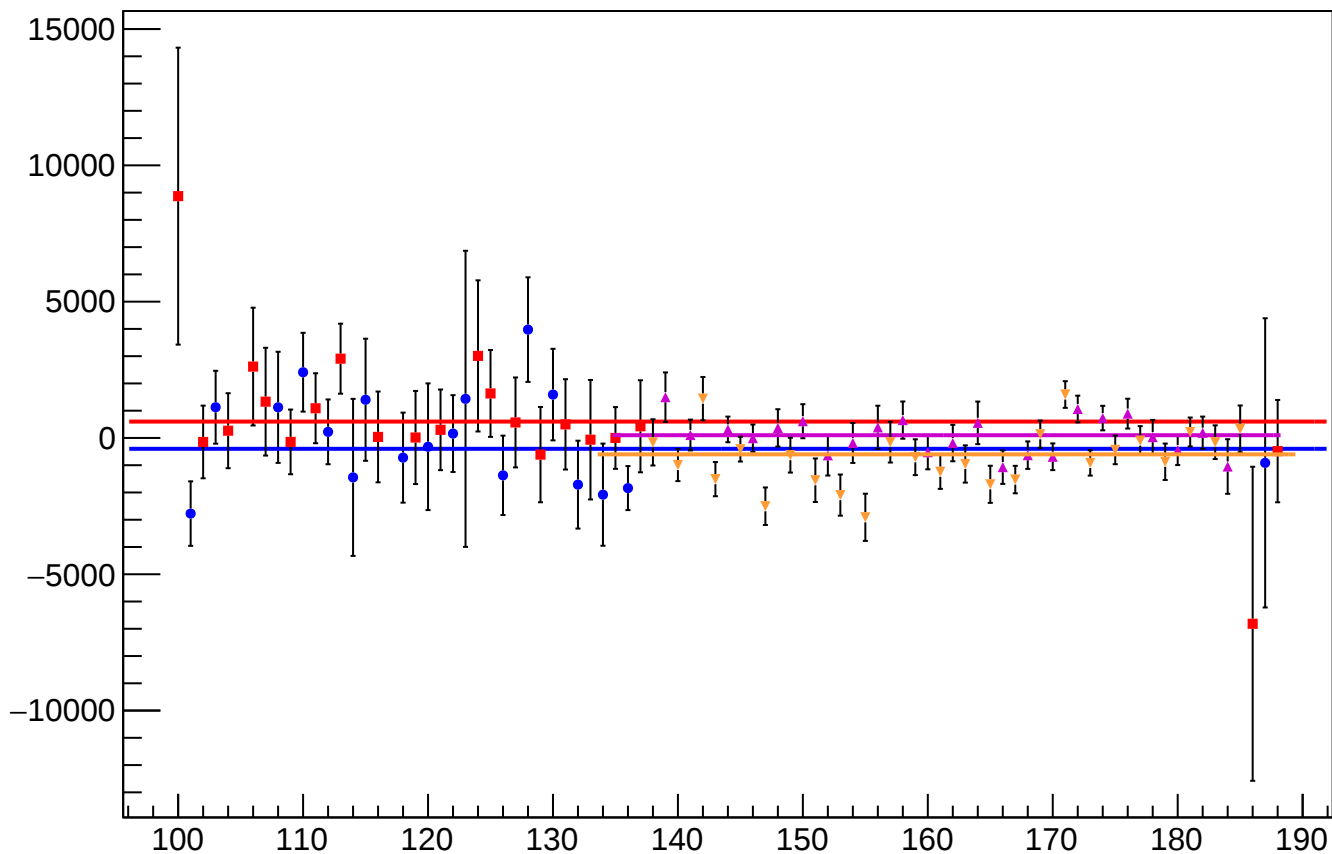
Right: 68.336+/-0.013 χ^2/NDF : 1986019.7/38

In: 63.613+/-0.009 χ^2/NDF : 1135374.6/40

Out: 63.898+/-0.009 χ^2/NDF : 2196514.4/45

All: 63.760+/-0.006 χ^2/NDF : 3332376.3/86

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -398.172+/-366.418 χ^2/NDF : 22.7/17

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 600.586+/-355.424 χ^2/NDF : 11.8/20

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

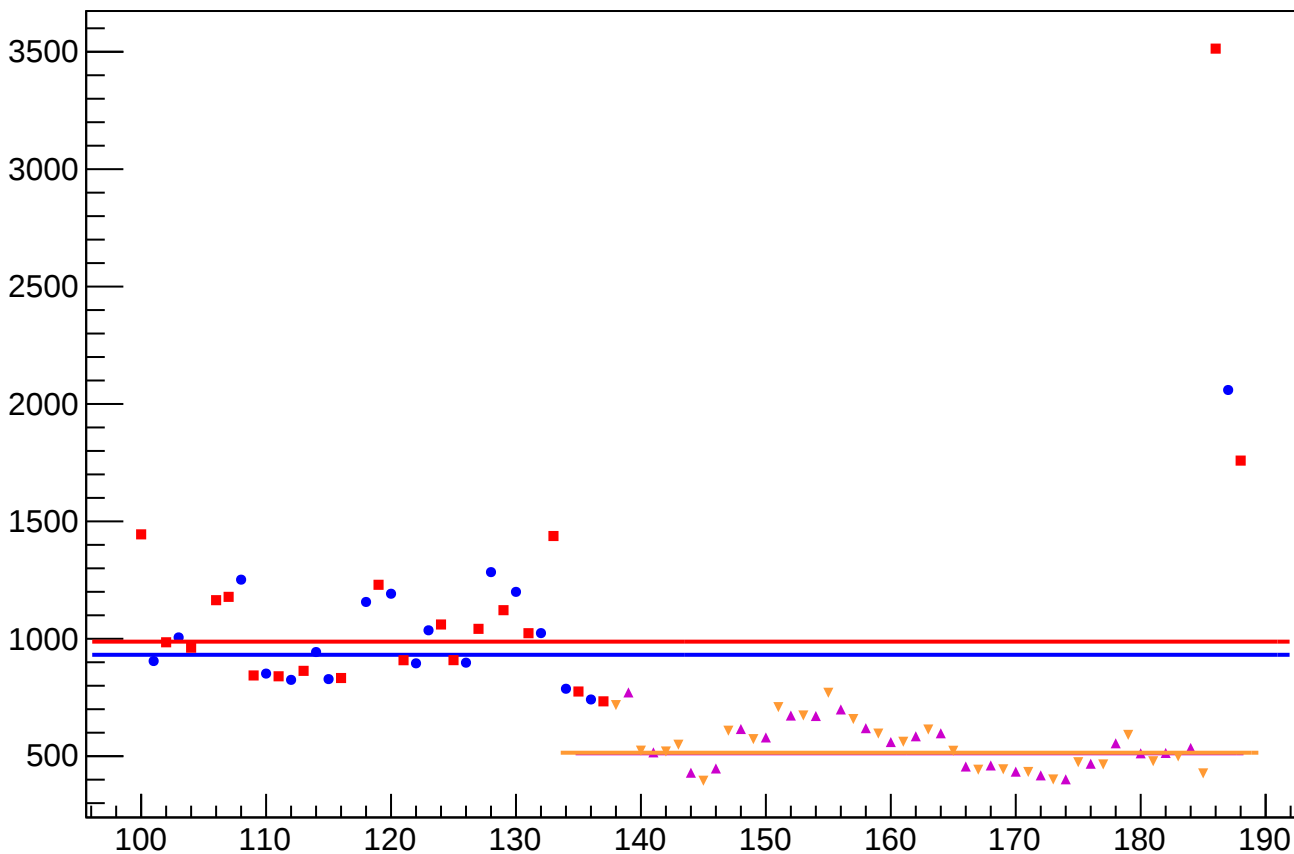
Right: 116.416+/-255.121 χ^2/NDF : 38.3/38

In: 48.764+/-118.072 χ^2/NDF : 49.9/40

Out: -474.563+/-115.492 χ^2/NDF : 87.4/45

All: -218.680+/-82.562 χ^2/NDF : 147.3/86

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 931.747 $\pm$ 0.259 χ^2 /NDF: 486660.3/17

Left Out: 514.758 $\pm$ 0.086 χ^2 /NDF:1194945.9/24

Right Out: 987.796 $\pm$ 0.251 χ^2 /NDF: 1127997.4/20

Left In: 512.199 $\pm$ 0.088 χ^2 /NDF:1041302.8/22

Left: 513.505 $\pm$ 0.062 χ^2 /NDF: 2236678.4/47

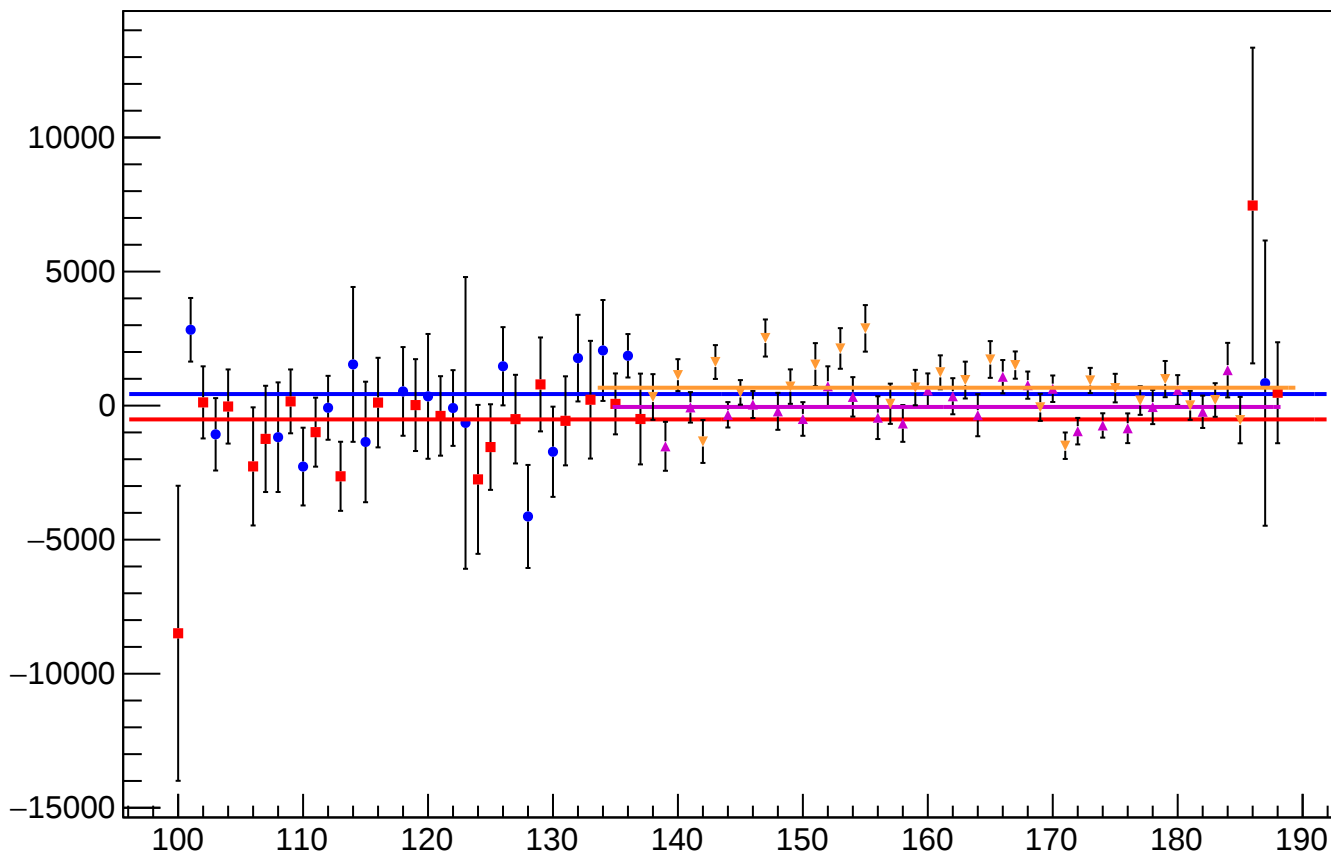
Right: 960.625 $\pm$ 0.180 χ^2 /NDF: 1638768.4/38

In: 555.762 $\pm$ 0.083 χ^2 /NDF:3877738.8/40

Out: 564.704 $\pm$ 0.082 χ^2 /NDF:5491540.4/45

All: 560.332 $\pm$ 0.058 χ^2 /NDF: 9375141.1/86

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 431.301+/-367.668 χ^2/NDF : 22.9/17

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -514.466+/-356.859 χ^2/NDF : 10.7/20

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

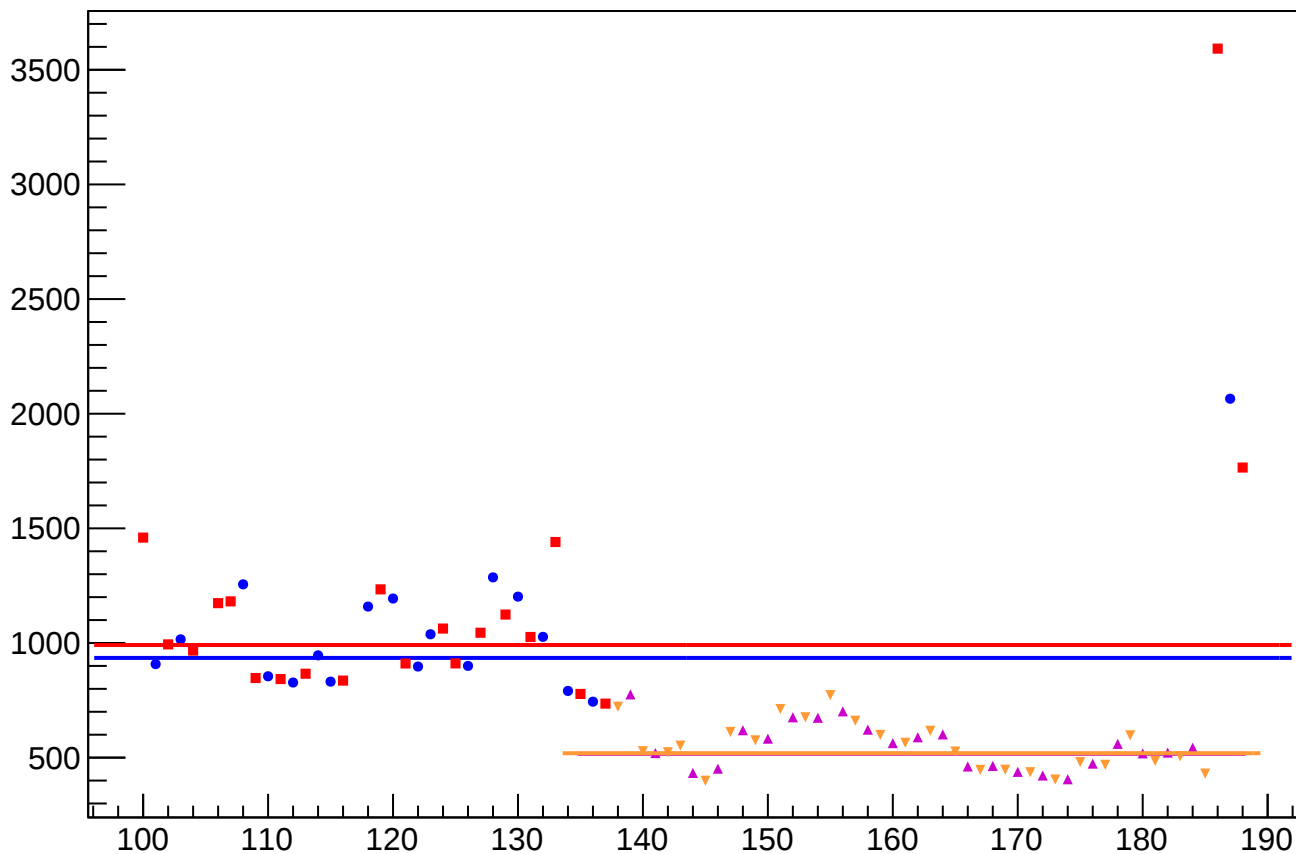
Right: -55.689+/-256.073 χ^2/NDF : 37.0/38

In: 0.374+/-119.030 χ^2/NDF : 50.5/40

Out: 541.838+/-116.409 χ^2/NDF : 82.0/45

All: 277.132+/-83.225 χ^2/NDF : 143.1/86

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 934.974 ± 0.260 $\chi^2/\text{NDF}: 485644.4/17$

Left Out: 519.254 ± 0.087 $\chi^2/\text{NDF}: 1172411.1/24$

Right Out: 991.174 ± 0.252 $\chi^2/\text{NDF}: 1134232.0/20$

Left In: 516.792 ± 0.089 $\chi^2/\text{NDF}: 1021374.1/22$

Left: 518.049 ± 0.062 $\chi^2/\text{NDF}: 2194176.4/47$

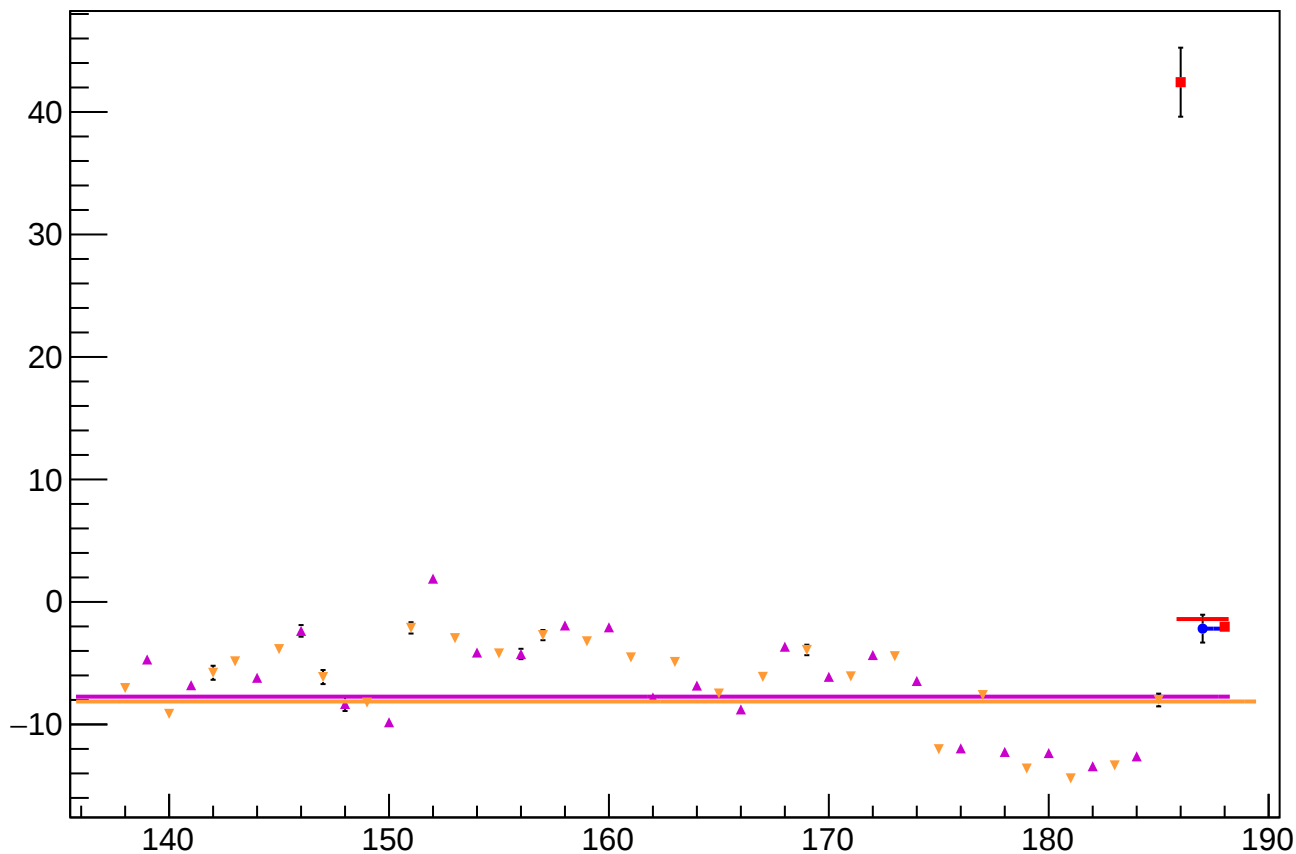
Right: 963.912 ± 0.181 $\chi^2/\text{NDF}: 1643937.6/38$

In: 560.621 ± 0.084 $\chi^2/\text{NDF}: 3823160.6/40$

Out: 569.471 ± 0.082 $\chi^2/\text{NDF}: 5432089.3/45$

All: 565.145 ± 0.059 $\chi^2/\text{NDF}: 9260900.8/86$

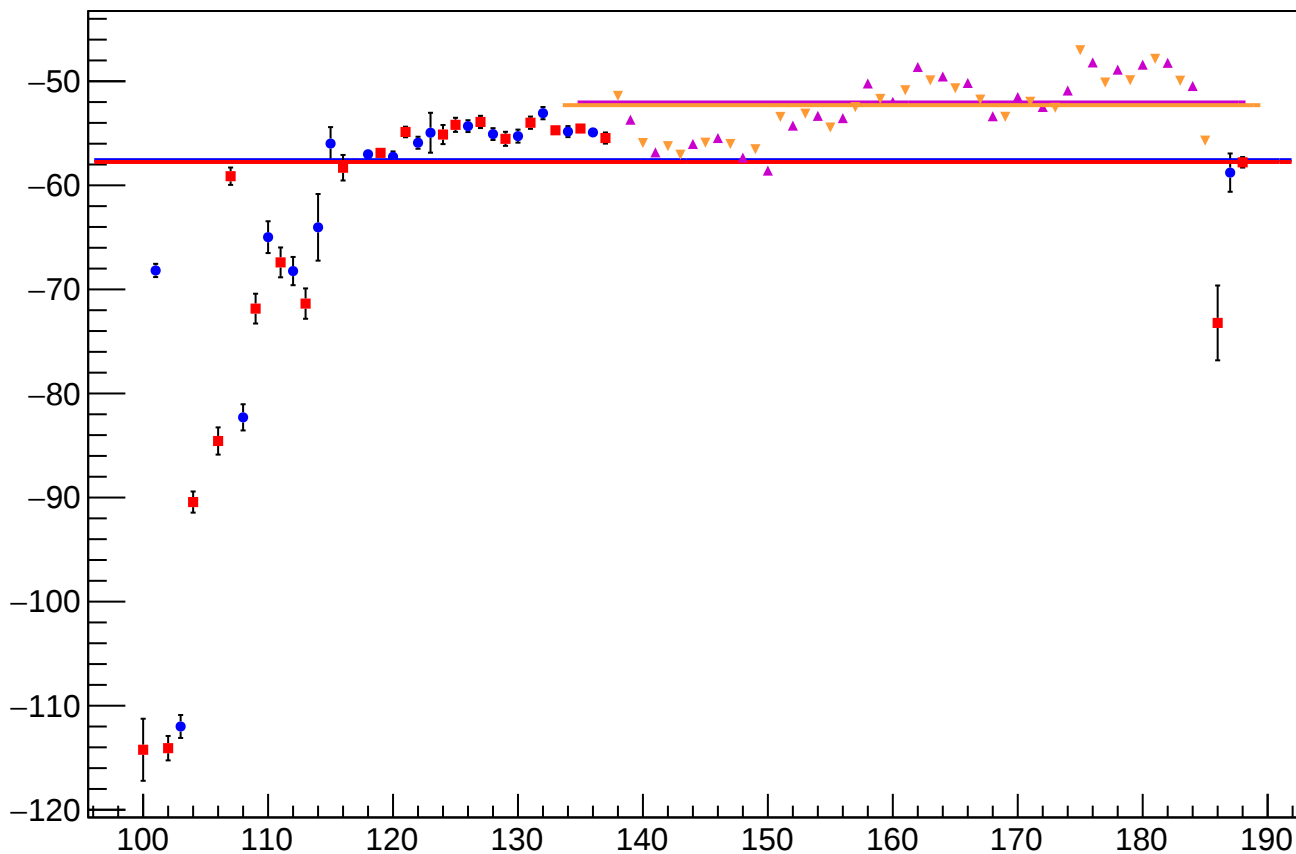
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.180 ± 1.137 χ^2/NDF : 0.0/0
 Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24
 Right Out: -1.397 ± 0.334 χ^2/NDF : 245.5/1
 Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47
 Right: -1.459 ± 0.320 χ^2/NDF : 245.9/2
 In: -7.712 ± 0.069 χ^2/NDF : 3742.8/23
 Out: -7.864 ± 0.066 χ^2/NDF : 4271.9/26
 All: -7.791 ± 0.048 χ^2/NDF : 8017.3/50

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.581 $\pm$ 0.143 χ^2 /NDF: 3458.6/17

Left Out: -52.297 $\pm$ 0.055 χ^2 /NDF:2657.5/24

Right Out: -57.755 $\pm$ 0.138 χ^2 /NDF: 4719.1/20

Left In: -52.038 $\pm$ 0.057 χ^2 /NDF:3180.4/22

Left: -52.172 $\pm$ 0.040 χ^2 /NDF: 5848.6/47

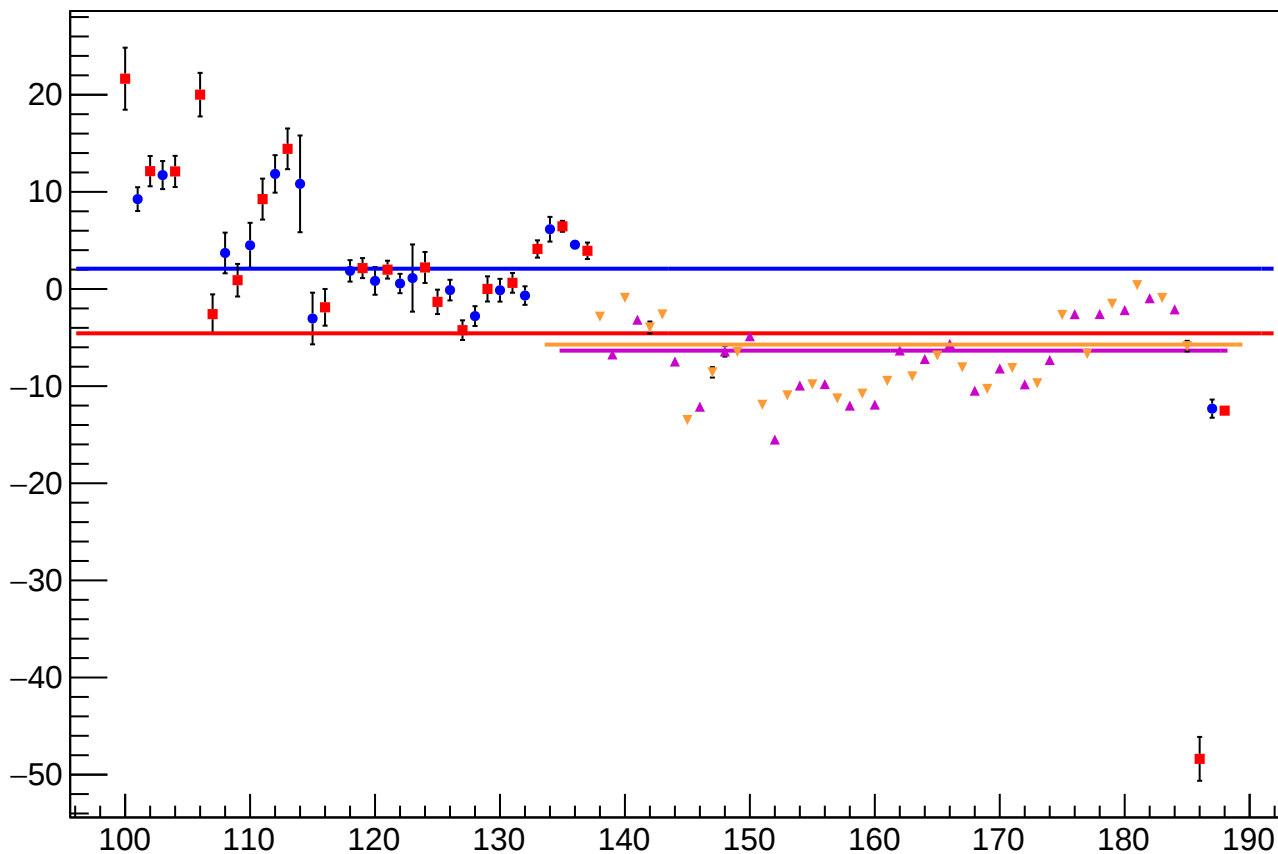
Right: -57.672 $\pm$ 0.099 χ^2 /NDF: 8178.4/38

In: -52.804 $\pm$ 0.053 χ^2 /NDF:7938.4/40

Out: -53.050 $\pm$ 0.051 χ^2 /NDF:8732.8/45

All: -52.932 $\pm$ 0.037 χ^2 /NDF: 16682.3/86

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



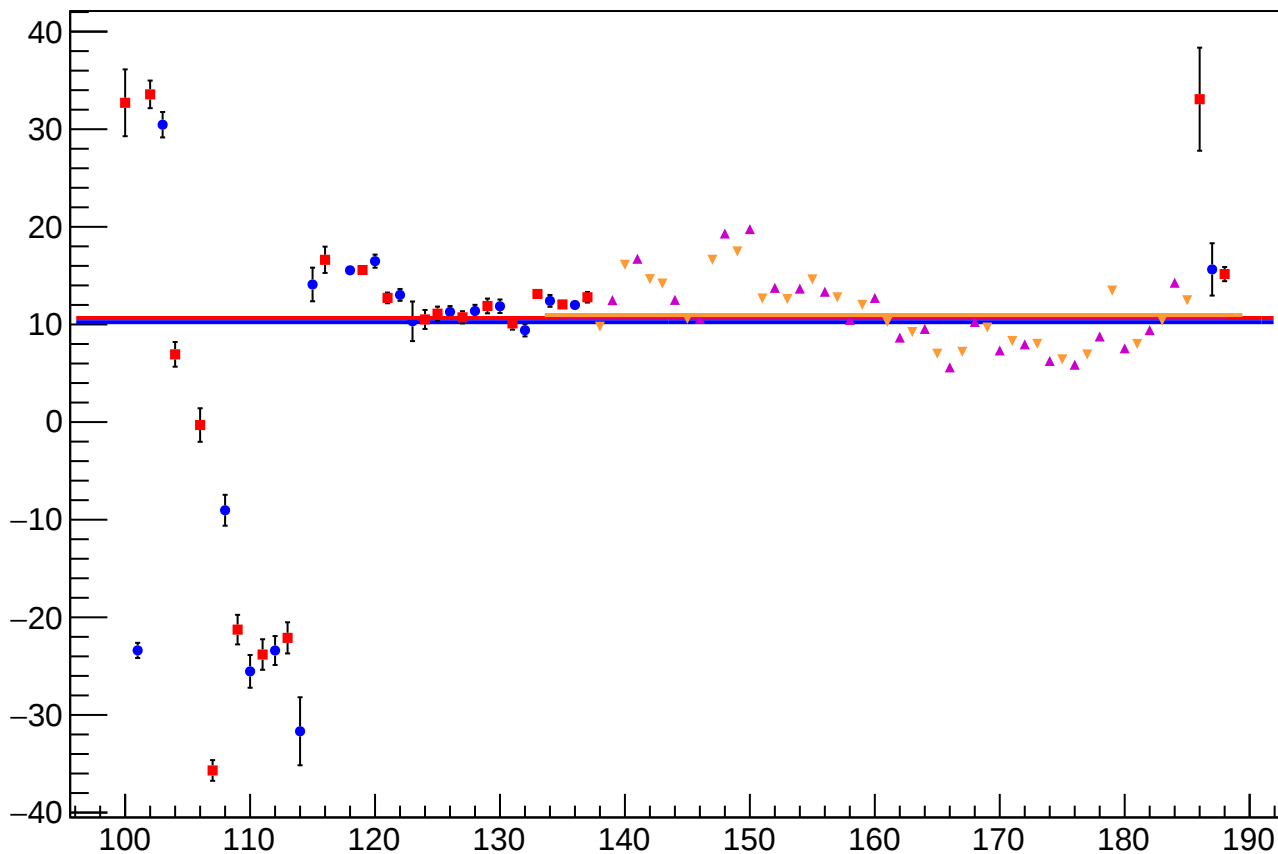
Right In: 2.092 ± 0.250 $\chi^2/\text{NDF}: 440.5/17$
 Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$
 Right Out: -4.562 ± 0.190 $\chi^2/\text{NDF}: 2514.5/20$
 Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$
 Right: -2.118 ± 0.151 $\chi^2/\text{NDF}: 3403.8/38$

In: -5.752 ± 0.066 $\chi^2/\text{NDF}: 4884.3/40$
 Out: -5.592 ± 0.064 $\chi^2/\text{NDF}: 6530.4/45$

All: -5.669 ± 0.046 $\chi^2/\text{NDF}: 11417.8/86$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.232 $\pm$ 0.158 χ^2 /NDF: 3684.1/17

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 10.660 $\pm$ 0.156 χ^2 /NDF: 3884.5/20

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

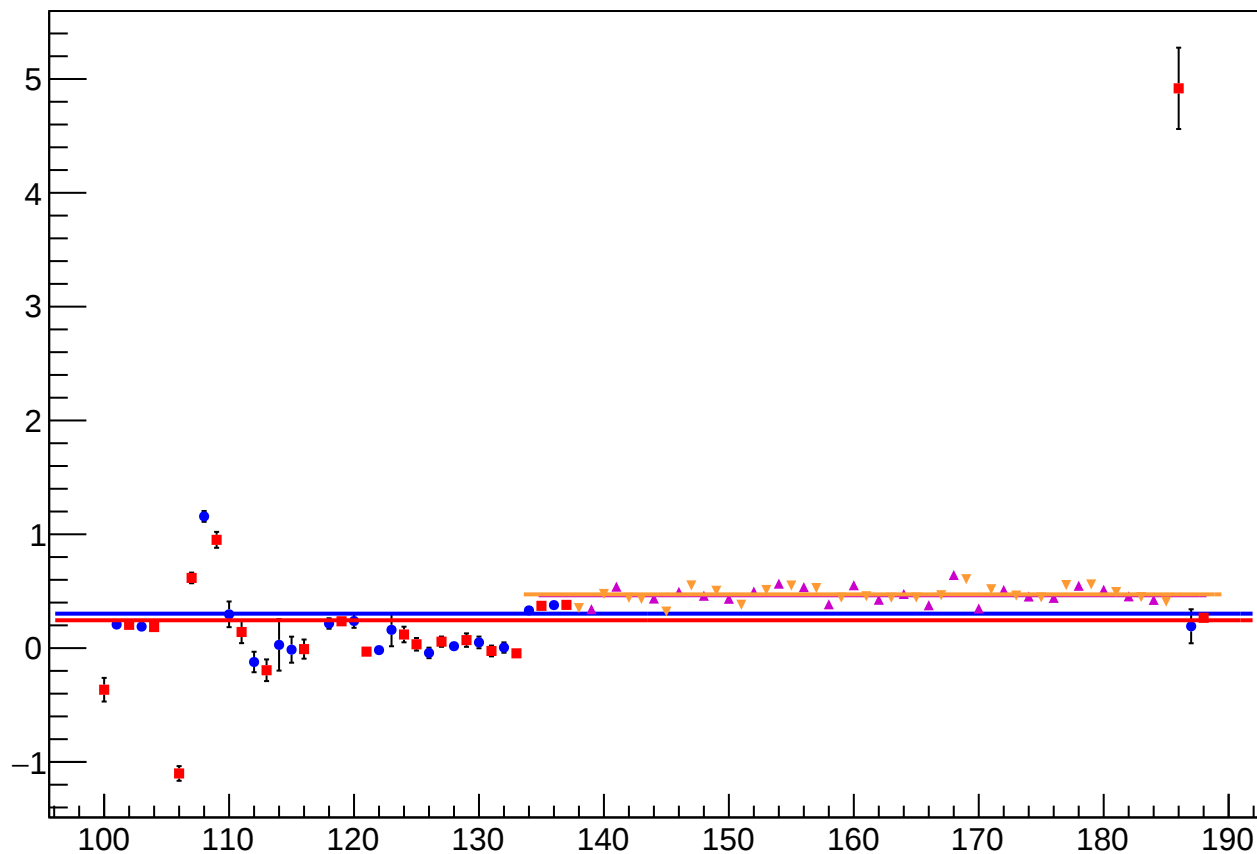
Right: 10.448 $\pm$ 0.111 χ^2 /NDF: 7572.4/38

In: 10.733 $\pm$ 0.059 χ^2 /NDF: 7242.6/40

Out: 10.926 $\pm$ 0.057 χ^2 /NDF: 6525.6/45

All: 10.832 $\pm$ 0.041 χ^2 /NDF: 13773.7/86

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.303 ± 0.008 $\chi^2/\text{NDF}: 647.8/17$

Left Out: 0.472 ± 0.003 $\chi^2/\text{NDF}: 519.0/24$

Right Out: 0.245 ± 0.008 $\chi^2/\text{NDF}: 1155.1/20$

Left In: 0.464 ± 0.003 $\chi^2/\text{NDF}: 733.1/22$

Left: 0.468 ± 0.002 $\chi^2/\text{NDF}: 1256.2/47$

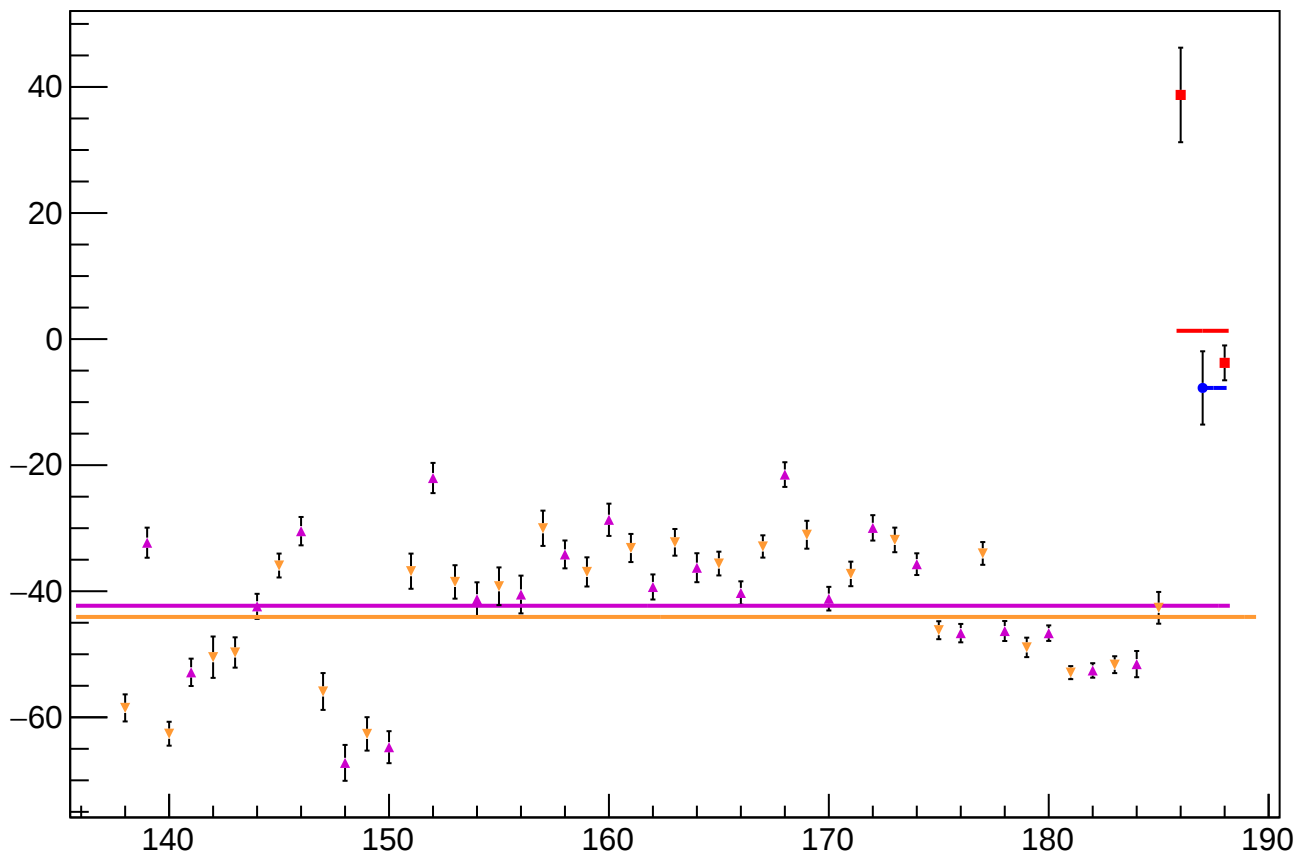
Right: 0.274 ± 0.006 $\chi^2/\text{NDF}: 1827.8/38$

In: 0.448 ± 0.003 $\chi^2/\text{NDF}: 1728.1/40$

Out: 0.449 ± 0.003 $\chi^2/\text{NDF}: 2358.3/45$

All: 0.448 ± 0.002 $\chi^2/\text{NDF}: 4086.6/86$

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



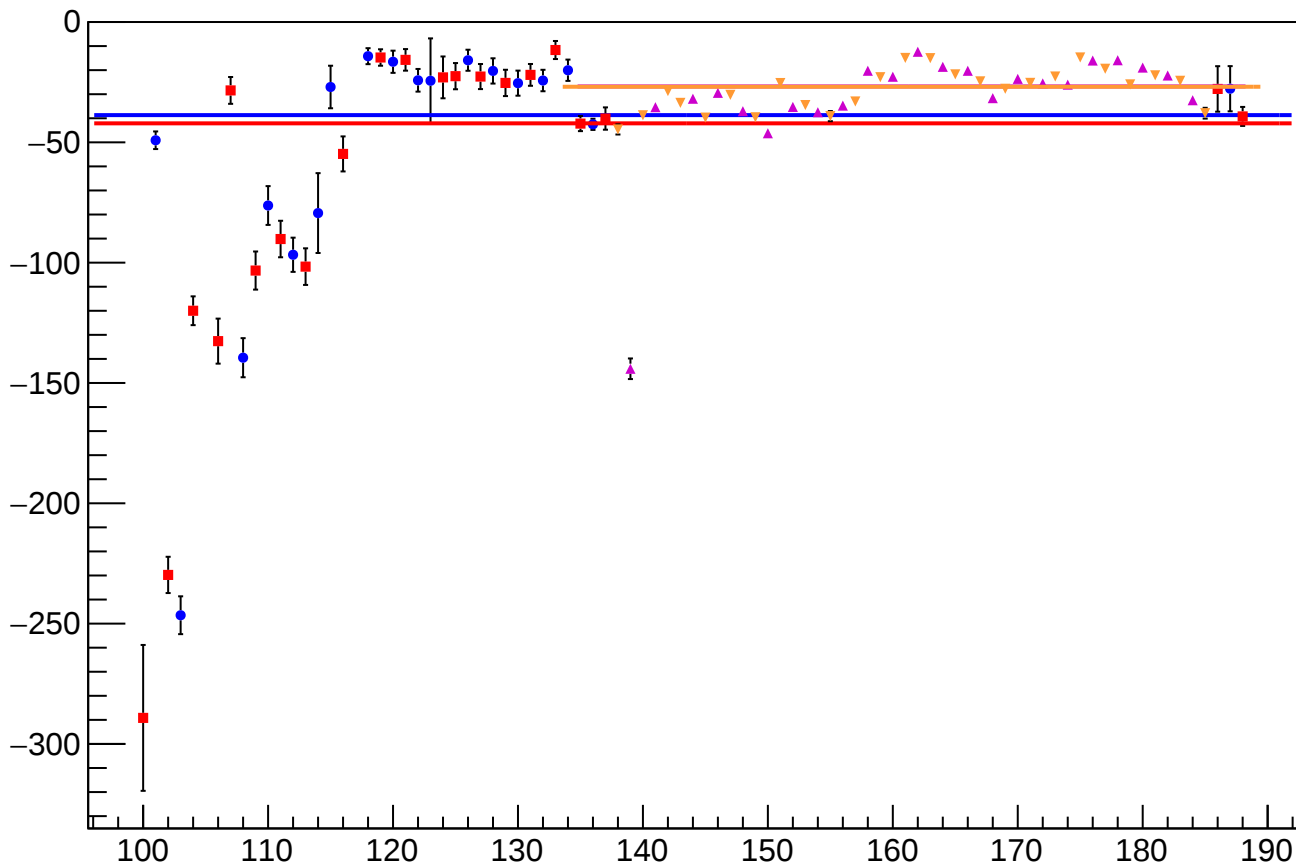
Right In: -7.749 ± 5.815 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: 1.316 ± 2.595 $\chi^2/\text{NDF}: 28.3/1$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$
 Right: -0.189 ± 2.369 $\chi^2/\text{NDF}: 30.3/2$

In: -42.142 ± 0.398 $\chi^2/\text{NDF}: 675.8/23$
 Out: -43.081 ± 0.384 $\chi^2/\text{NDF}: 960.2/26$

All: -42.628 ± 0.277 $\chi^2/\text{NDF}: 1638.9/50$

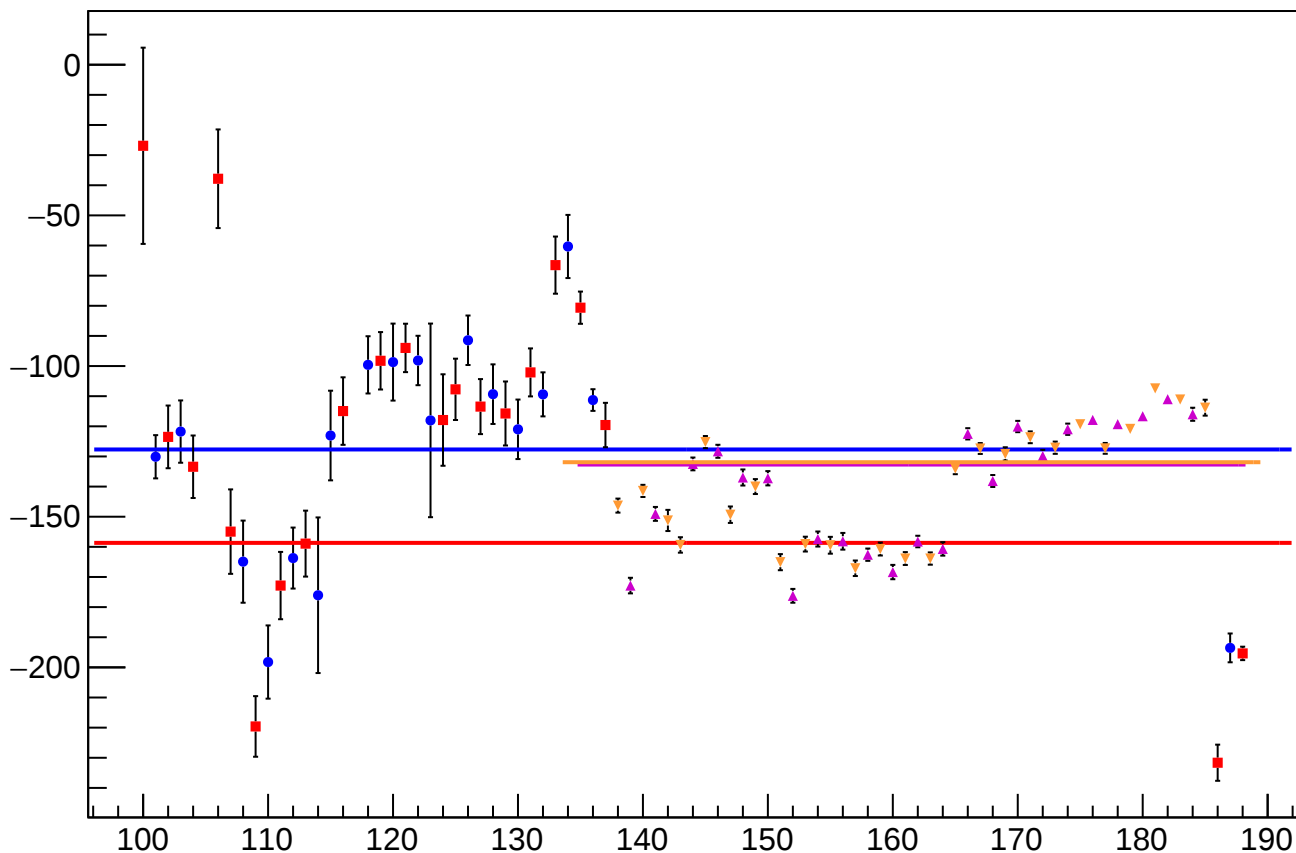
reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -38.687 ± 1.141 $\chi^2/\text{NDF}: 1123.1/17$
 Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$
 Right Out: -42.109 ± 1.150 $\chi^2/\text{NDF}: 1348.6/20$
 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: -40.385 ± 0.810 $\chi^2/\text{NDF}: 2476.2/38$
 In: -27.674 ± 0.314 $\chi^2/\text{NDF}: 2618.4/40$
 Out: -27.972 ± 0.305 $\chi^2/\text{NDF}: 2142.2/45$
 All: -27.827 ± 0.219 $\chi^2/\text{NDF}: 4761.1/86$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -127.683 $\pm$ 1.910 χ^2 /NDF: 366.5/17

Left Out: -131.912 $\pm$ 0.391 χ^2 /NDF:2439.3/24

Right Out: -158.681 $\pm$ 1.519 χ^2 /NDF: 1125.0/20

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

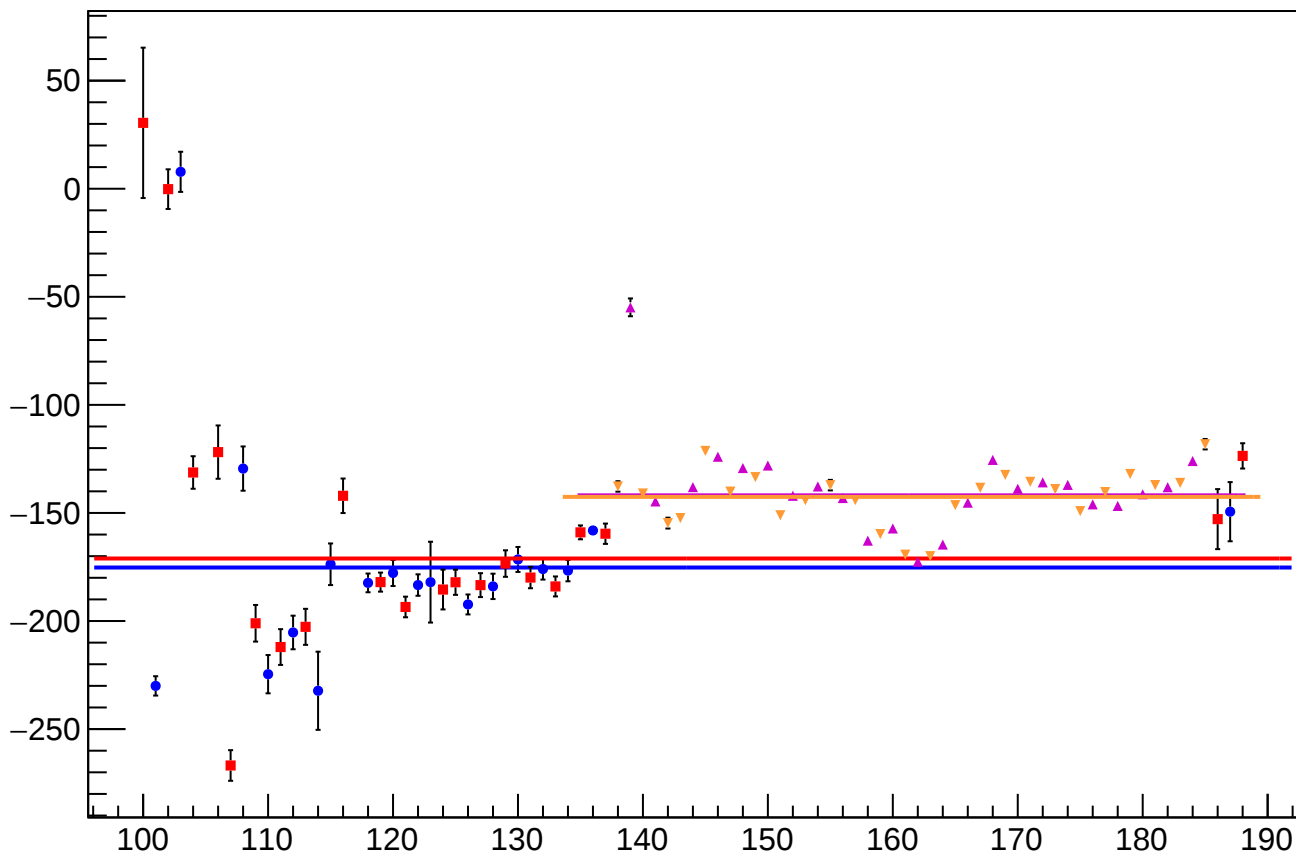
Right: -146.671 $\pm$ 1.189 χ^2 /NDF: 1652.8/38

In: -132.480 $\pm$ 0.391 χ^2 /NDF:2853.3/40

Out: -133.579 $\pm$ 0.379 χ^2 /NDF:3855.5/45

All: -133.046 $\pm$ 0.272 χ^2 /NDF: 6712.8/86

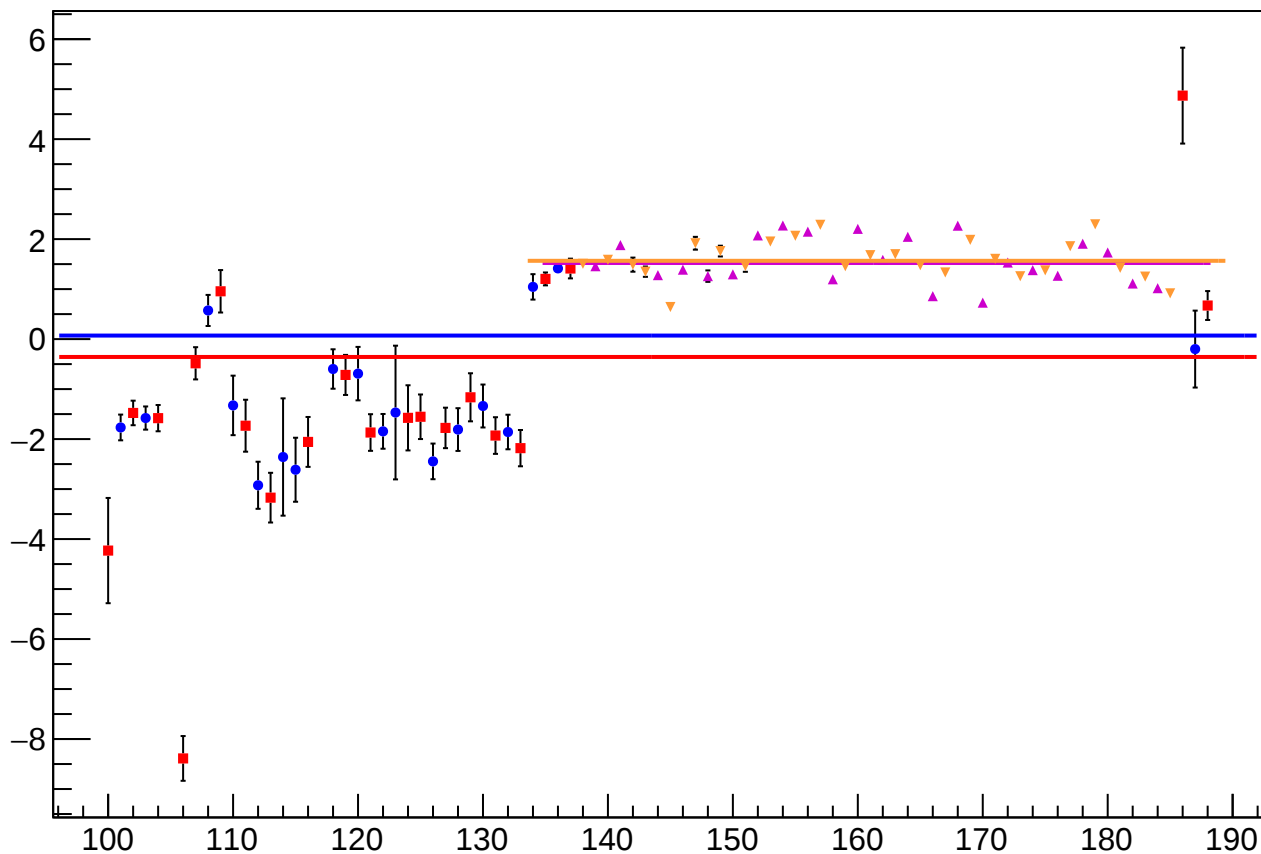
reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -175.250 ± 1.273 χ^2/NDF : 694.8/17
 Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24
 Right Out: -171.075 ± 1.318 χ^2/NDF : 809.5/20
 Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47
 Right: -173.234 ± 0.916 χ^2/NDF : 1509.5/38
 In: -144.376 ± 0.350 χ^2/NDF : 2875.0/40
 Out: -144.484 ± 0.342 χ^2/NDF : 2393.9/45
 All: -144.431 ± 0.244 χ^2/NDF : 5269.0/86

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.071 ± 0.067 χ^2/NDF : 525.3/17

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: -0.357 ± 0.069 χ^2/NDF : 794.7/20

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

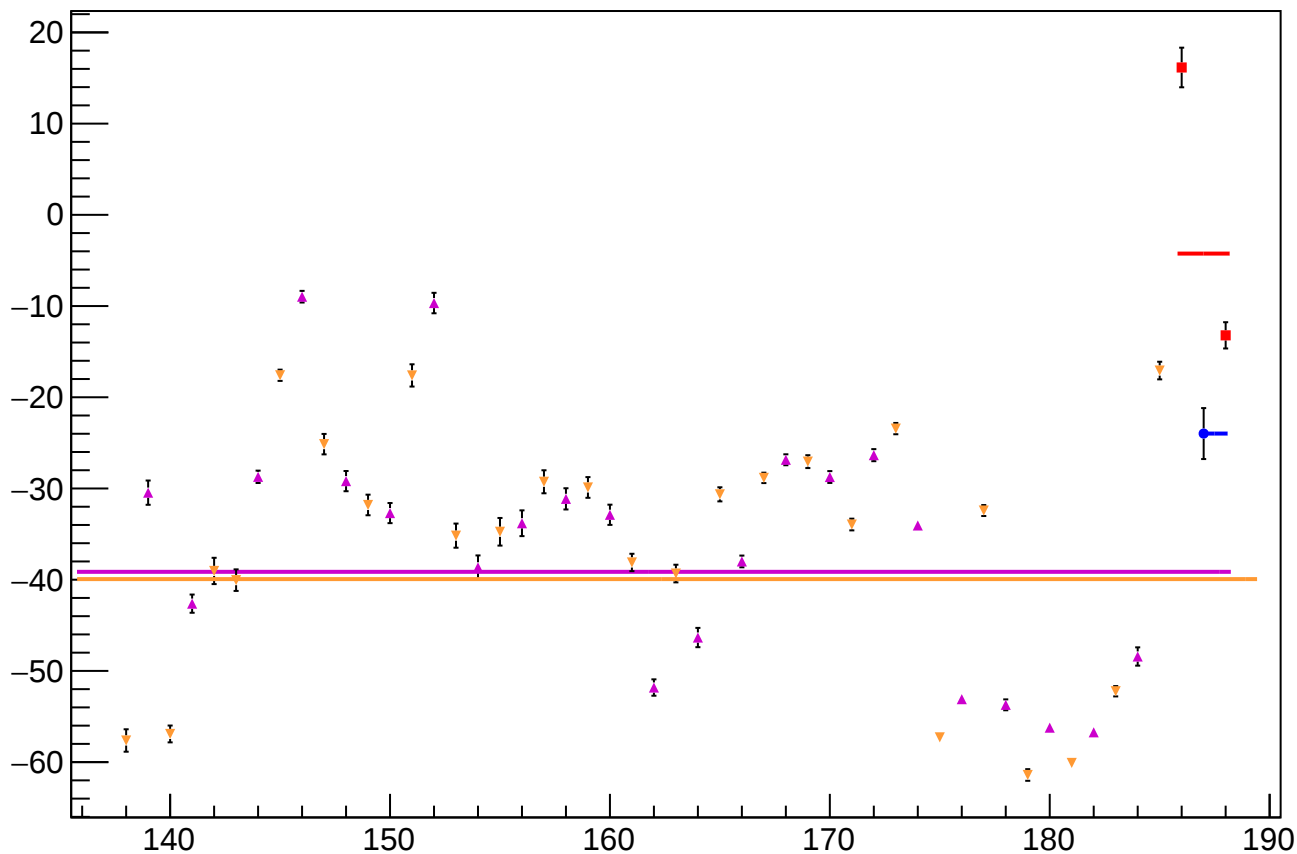
Right: -0.136 ± 0.048 χ^2/NDF : 1339.8/38

In: 1.440 ± 0.016 χ^2/NDF : 1707.6/40

Out: 1.466 ± 0.016 χ^2/NDF : 2071.2/45

All: 1.453 ± 0.011 χ^2/NDF : 3780.2/86

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



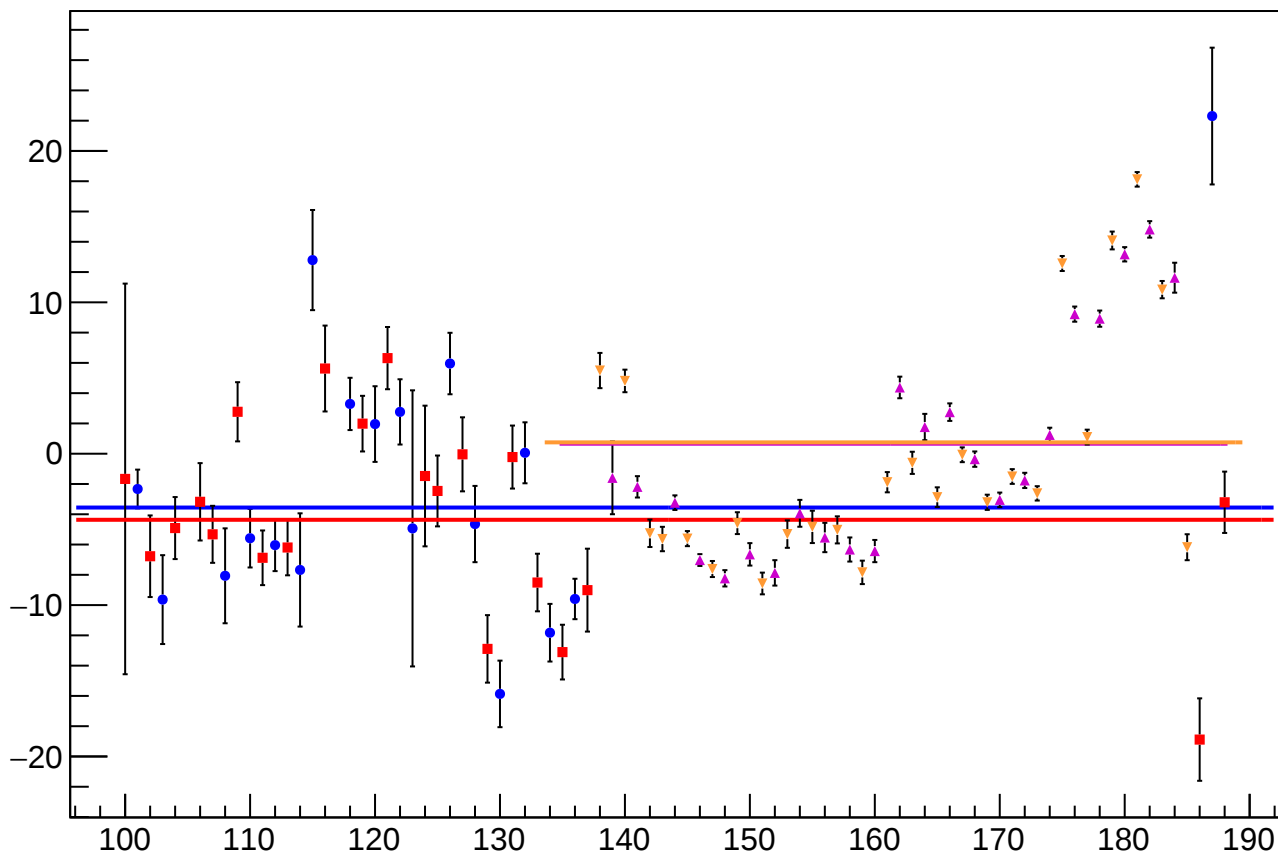
Right In: -23.980 ± 2.794 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$
 Right Out: -4.248 ± 1.200 $\chi^2/\text{NDF}: 127.0/1$
 Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$
 Right: -7.322 ± 1.103 $\chi^2/\text{NDF}: 169.1/2$

In: -39.091 ± 0.154 $\chi^2/\text{NDF}: 8563.9/23$
 Out: -39.363 ± 0.152 $\chi^2/\text{NDF}: 10803.6/26$

All: -39.229 ± 0.108 $\chi^2/\text{NDF}: 19369.0/50$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.556 ± 0.496 χ^2/NDF : 194.1/17

Left Out: 0.749 ± 0.124 χ^2/NDF : 3970.9/24

Right Out: -4.365 ± 0.484 χ^2/NDF : 151.5/20

Left In: 0.660 ± 0.124 χ^2/NDF : 3337.8/22

Left: 0.705 ± 0.088 χ^2/NDF : 7308.9/47

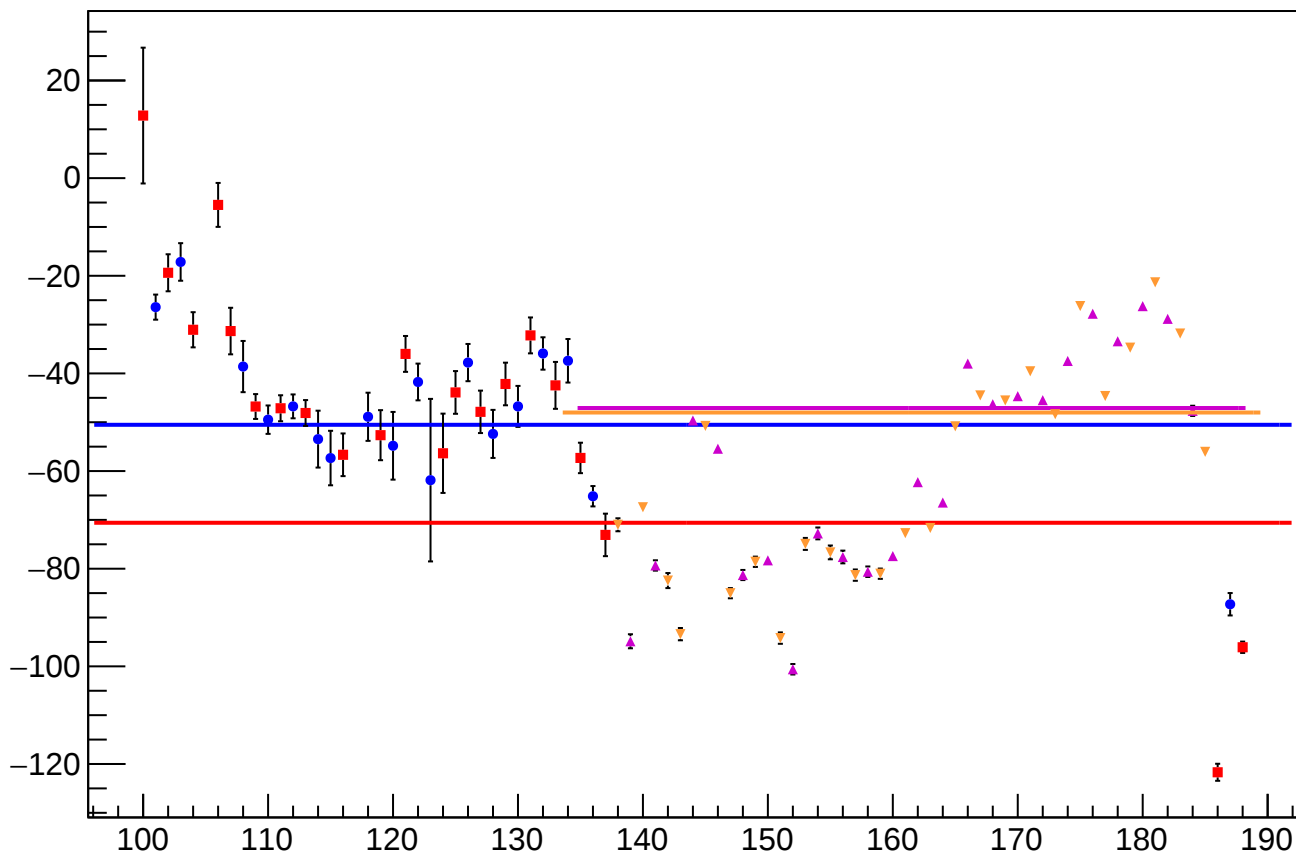
Right: -3.970 ± 0.347 χ^2/NDF : 347.0/38

In: 0.411 ± 0.121 χ^2/NDF : 3599.9/40

Out: 0.434 ± 0.120 χ^2/NDF : 4226.9/45

All: 0.422 ± 0.085 χ^2/NDF : 7826.8/86

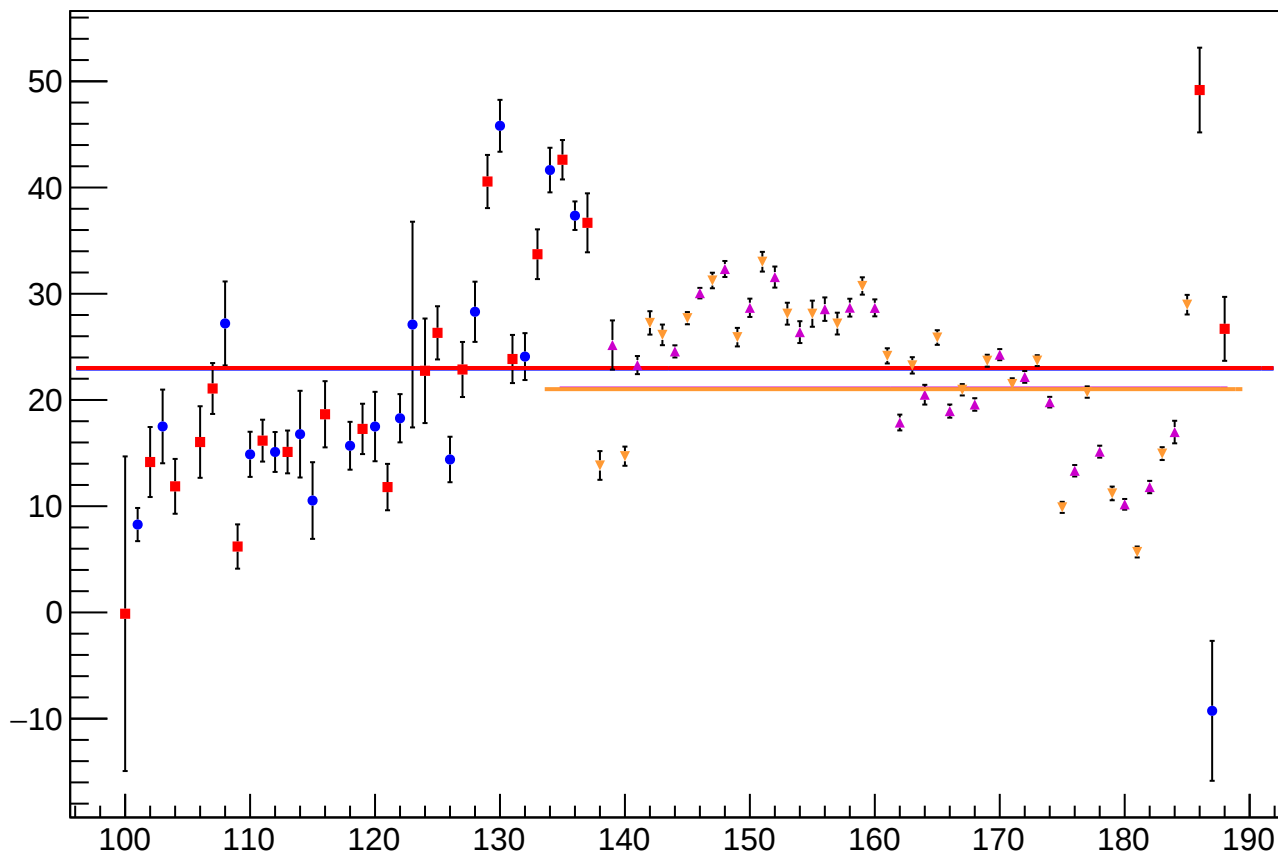
reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -50.524 ± 0.826 $\chi^2/\text{NDF}: 524.7/17$
 Left Out: -48.008 ± 0.155 $\chi^2/\text{NDF}: 16950.0/24$
 Right Out: -70.591 ± 0.650 $\chi^2/\text{NDF}: 2577.5/20$
 Left In: -47.085 ± 0.155 $\chi^2/\text{NDF}: 15515.2/22$

Left: -47.548 ± 0.110 $\chi^2/\text{NDF}: 32482.9/47$
 Right: -62.911 ± 0.511 $\chi^2/\text{NDF}: 3466.8/38$
 In: -47.202 ± 0.153 $\chi^2/\text{NDF}: 16056.7/40$
 Out: -49.217 ± 0.150 $\chi^2/\text{NDF}: 20669.3/45$
 All: -48.224 ± 0.107 $\chi^2/\text{NDF}: 36814.4/86$

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.952 $\pm$ 0.558 χ^2 /NDF: 481.0/17

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 23.012 $\pm$ 0.558 χ^2 /NDF: 412.2/20

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

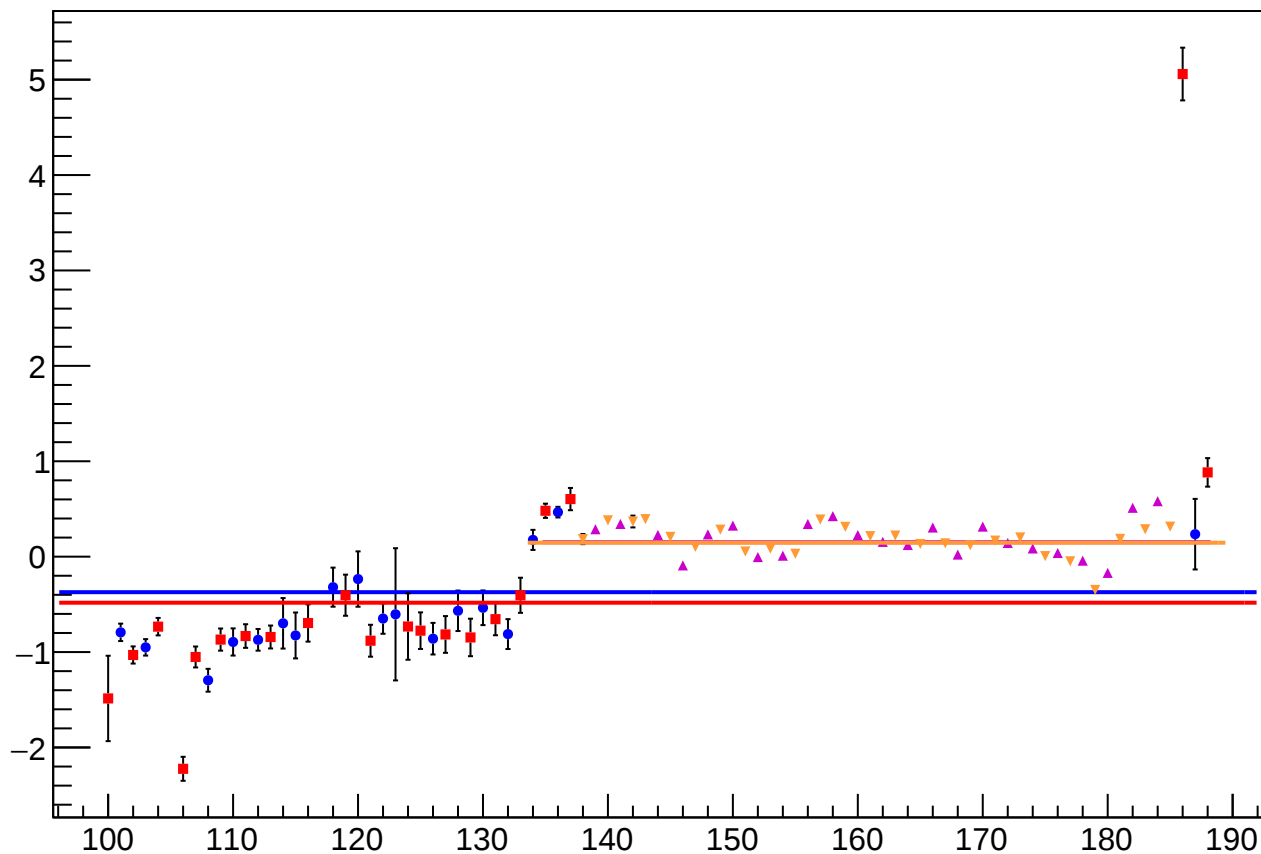
Right: 22.982 $\pm$ 0.394 χ^2 /NDF: 893.3/38

In: 21.189 $\pm$ 0.135 χ^2 /NDF:2664.9/40

Out: 21.136 $\pm$ 0.135 χ^2 /NDF:3223.5/45

All: 21.163 $\pm$ 0.096 χ^2 /NDF: 5888.5/86

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.372 ± 0.030 $\chi^2/\text{NDF}: 440.3/17$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.483 ± 0.029 $\chi^2/\text{NDF}: 1052.9/20$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

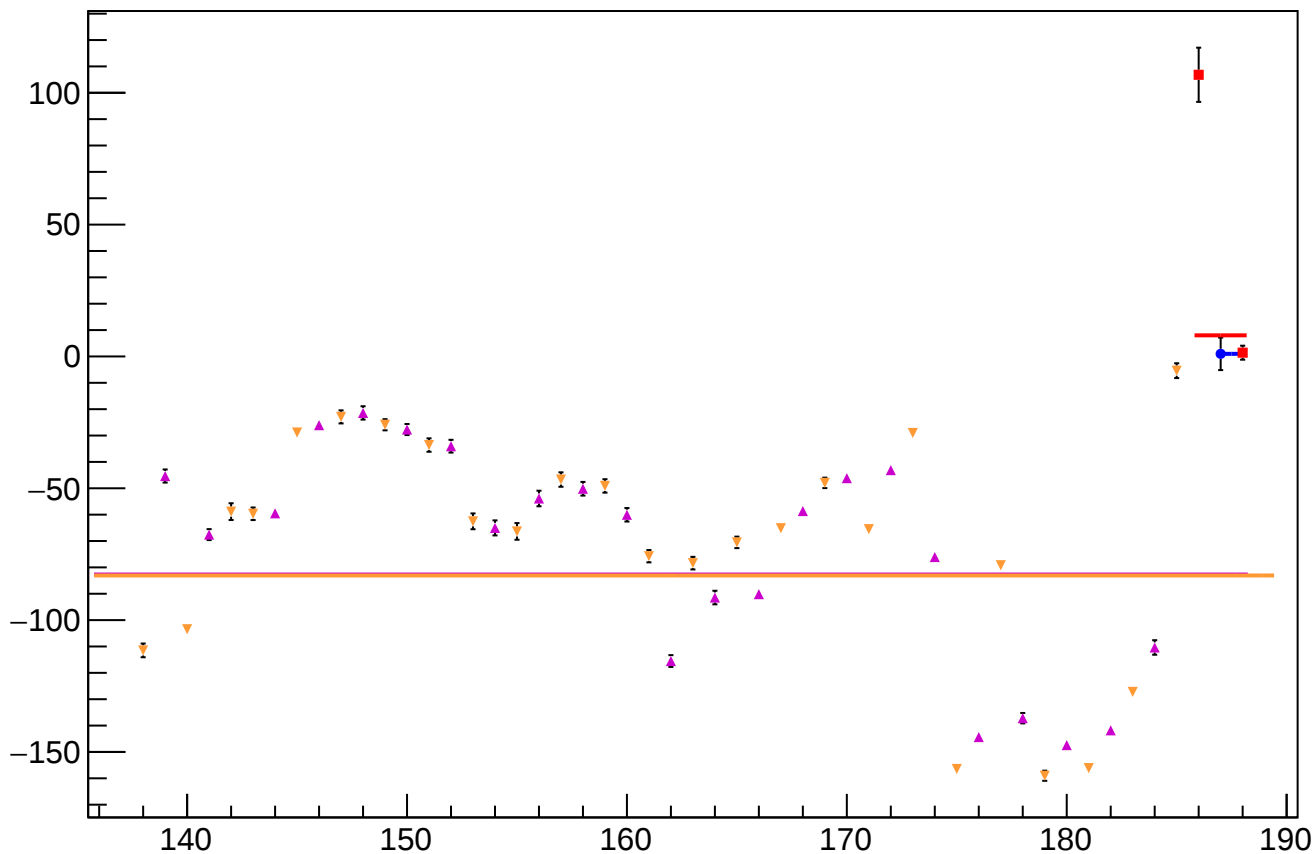
Right: -0.429 ± 0.021 $\chi^2/\text{NDF}: 1500.1/38$

In: 0.129 ± 0.006 $\chi^2/\text{NDF}: 1600.1/40$

Out: 0.118 ± 0.006 $\chi^2/\text{NDF}: 2098.0/45$

All: 0.123 ± 0.004 $\chi^2/\text{NDF}: 3699.4/86$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.990 ± 6.163 $\chi^2/\text{NDF}: 0.0/0$

Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$

Right Out: 8.006 ± 2.569 $\chi^2/\text{NDF}: 98.5/1$

Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$

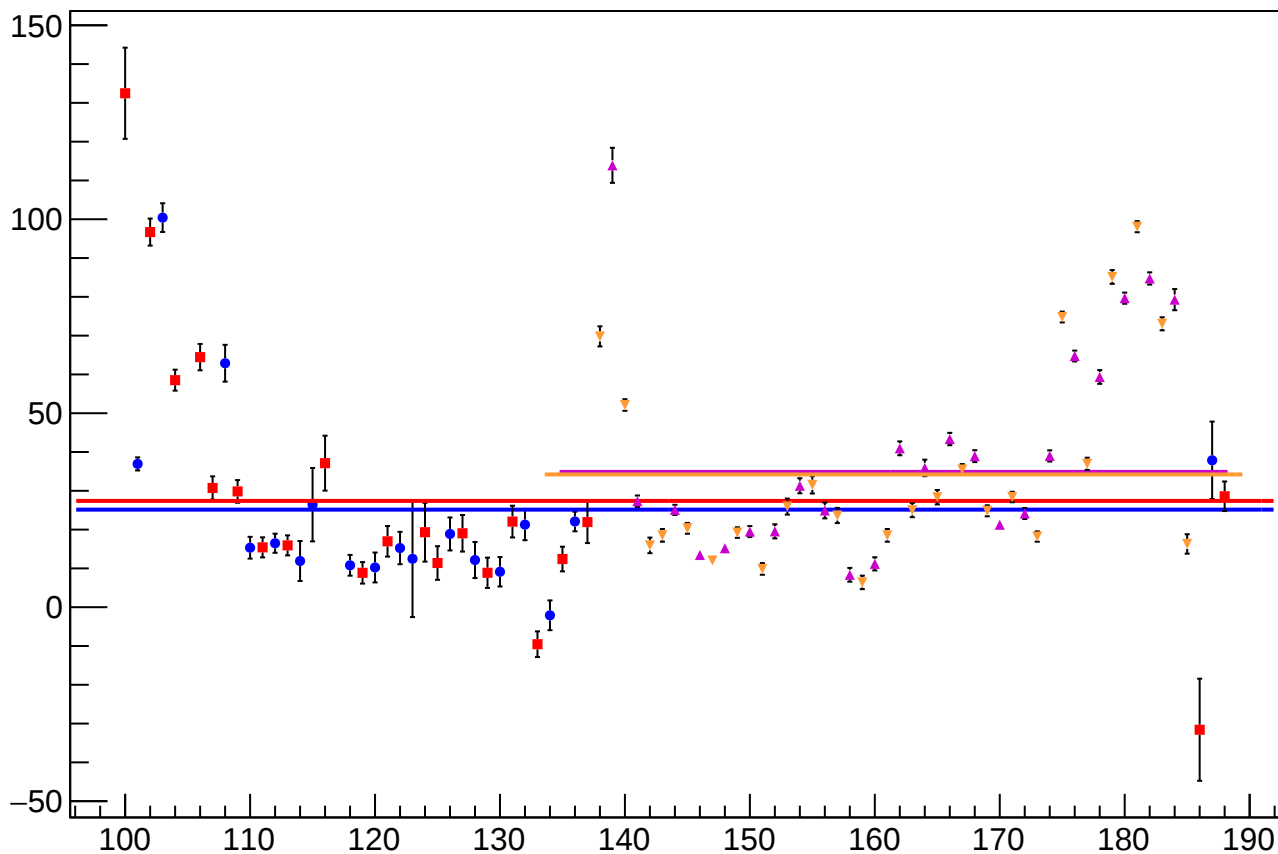
Right: 6.967 ± 2.371 $\chi^2/\text{NDF}: 99.6/2$

In: -82.333 ± 0.414 $\chi^2/\text{NDF}: 11025.0/23$

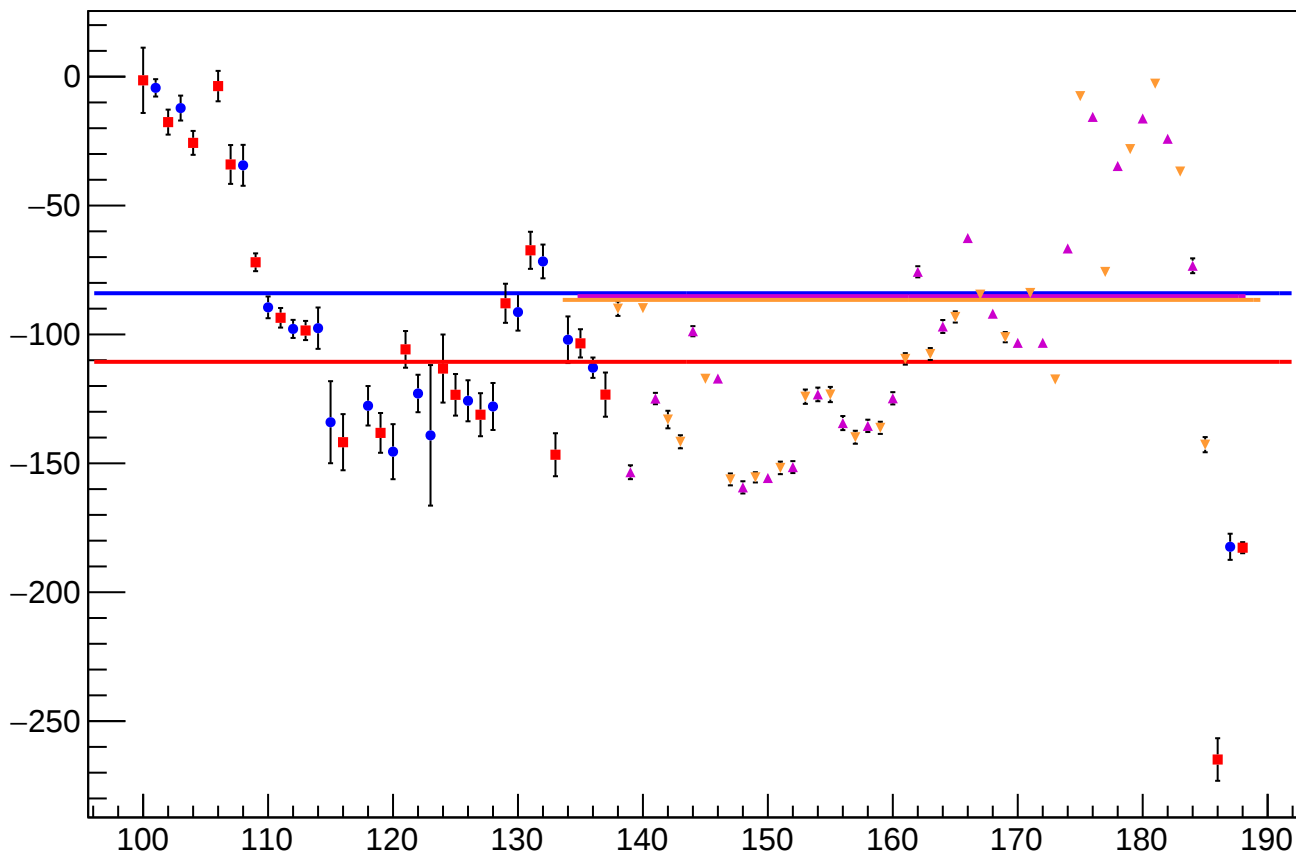
Out: -80.845 ± 0.401 $\chi^2/\text{NDF}: 15142.1/26$

All: -81.565 ± 0.288 $\chi^2/\text{NDF}: 26173.8/50$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -84.015 ± 1.366 $\chi^2/\text{NDF}: 1437.1/17$

Left Out: -86.595 ± 0.408 $\chi^2/\text{NDF}: 14515.7/24$

Right Out: -110.622 ± 1.134 $\chi^2/\text{NDF}: 2942.7/20$

Left In: -85.134 ± 0.415 $\chi^2/\text{NDF}: 12841.3/22$

Left: -85.876 ± 0.291 $\chi^2/\text{NDF}: 27363.3/47$

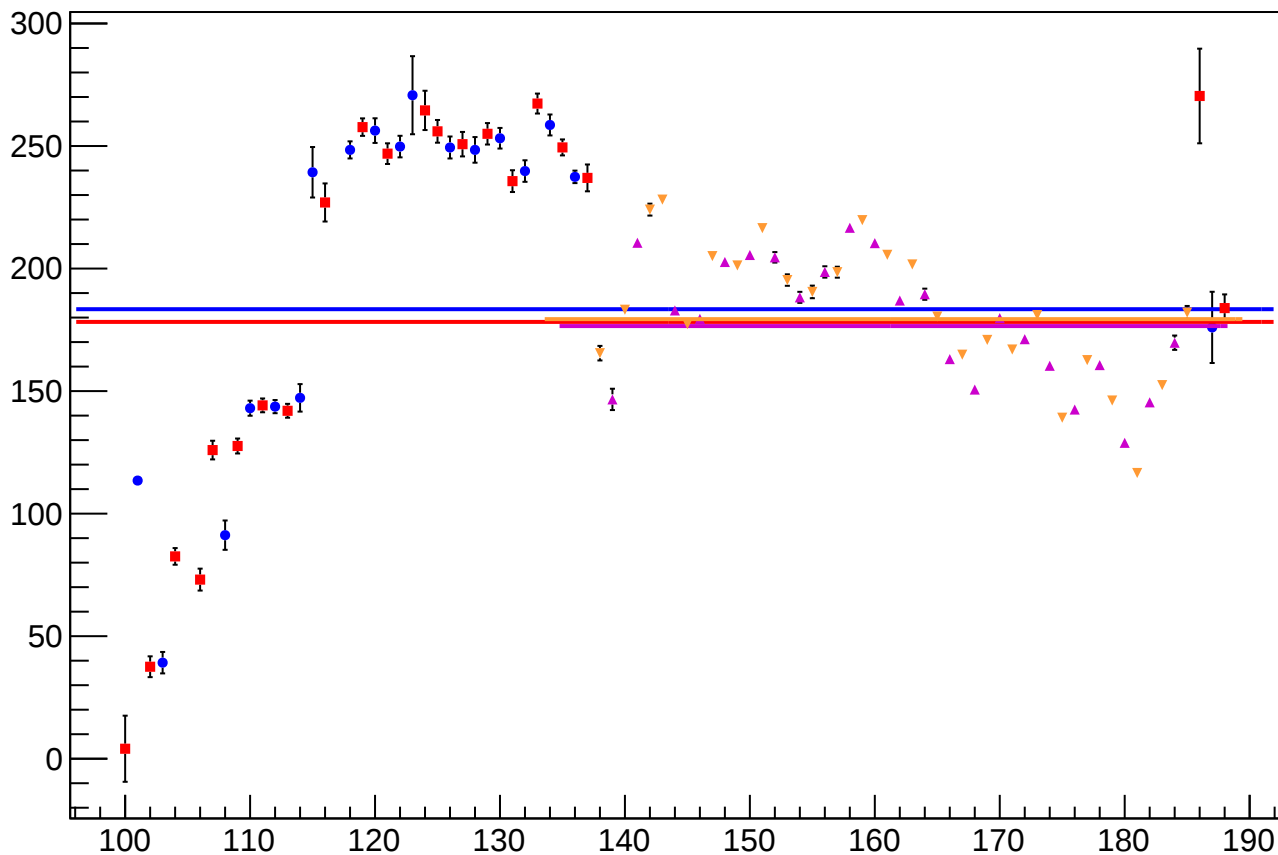
Right: -99.768 ± 0.873 $\chi^2/\text{NDF}: 4604.4/38$

In: -85.040 ± 0.397 $\chi^2/\text{NDF}: 14279.0/40$

Out: -89.354 ± 0.384 $\chi^2/\text{NDF}: 17855.7/45$

All: -87.268 ± 0.276 $\chi^2/\text{NDF}: 32195.7/86$

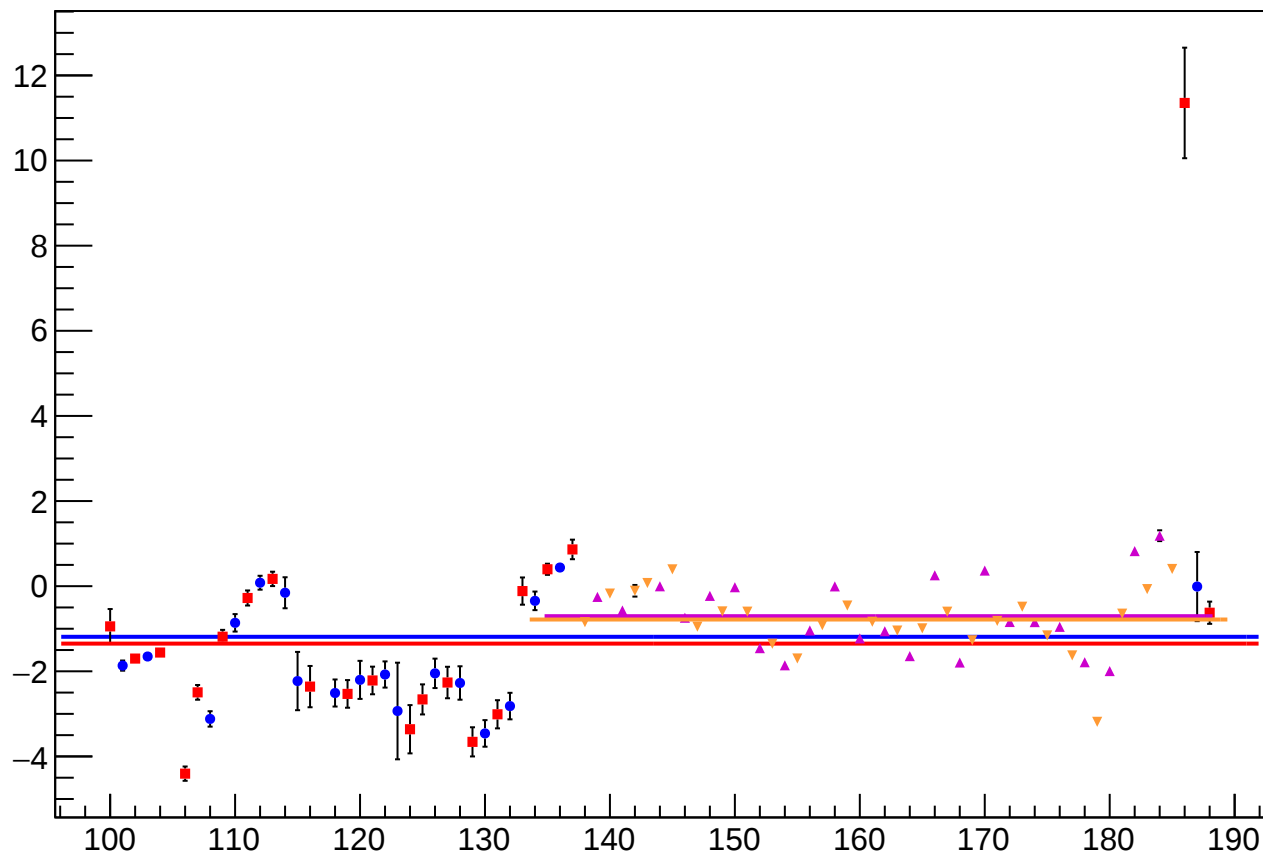
reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 183.419 $\pm$ 0.918 χ^2 /NDF: 5318.5/17
 Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24
 Right Out: 178.234 $\pm$ 0.912 χ^2 /NDF: 6360.5/20
 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: 180.807 $\pm$ 0.647 χ^2 /NDF: 11695.1/38
 In: 177.497 $\pm$ 0.344 χ^2 /NDF: 9792.8/40
 Out: 179.206 $\pm$ 0.336 χ^2 /NDF: 12344.1/45
 All: 178.371 $\pm$ 0.240 χ^2 /NDF: 22149.5/86

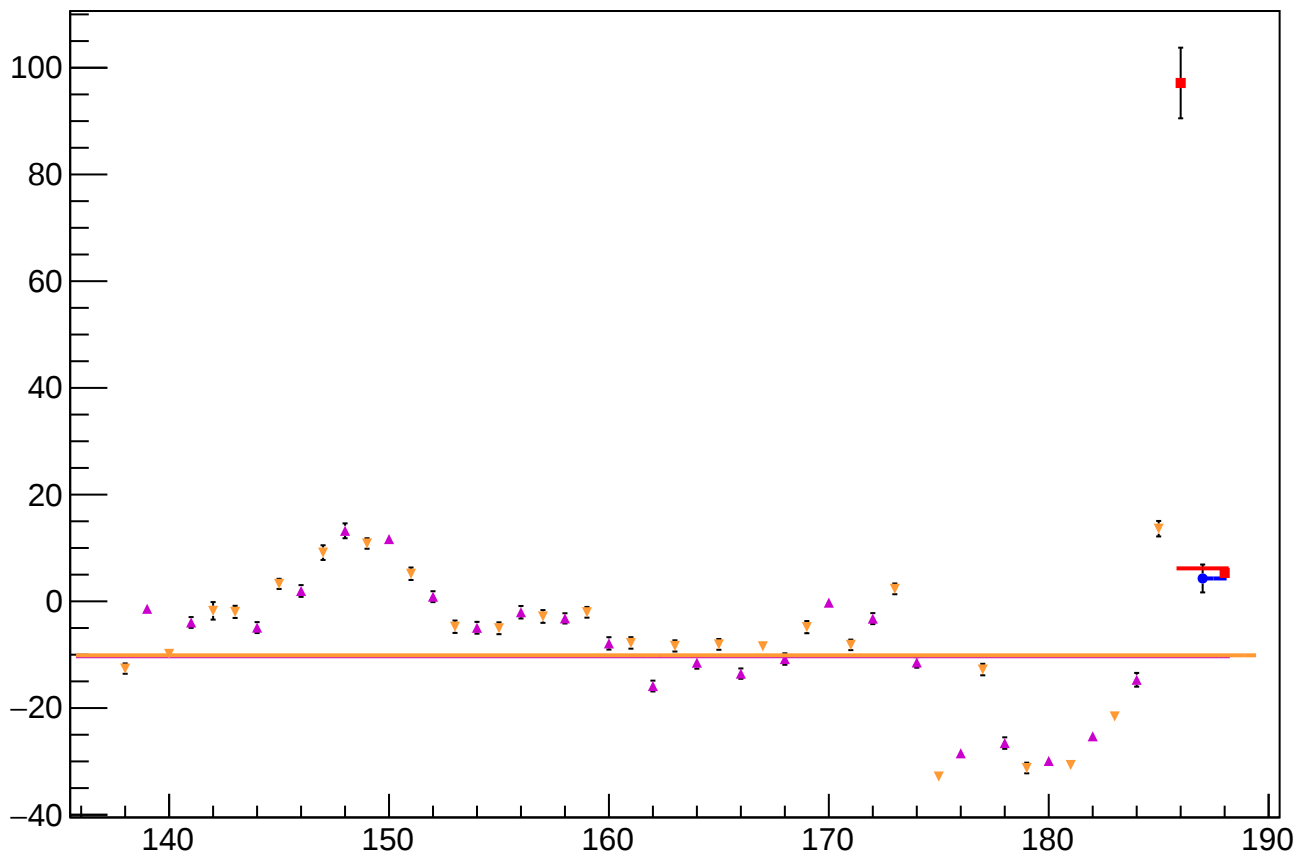
reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.189 ± 0.048 χ^2/NDF : 622.5/17
 Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24
 Right Out: -1.350 ± 0.045 χ^2/NDF : 1023.5/20
 Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47
 Right: -1.275 ± 0.033 χ^2/NDF : 1651.9/38
 In: -0.758 ± 0.016 χ^2/NDF : 3120.4/40
 Out: -0.851 ± 0.016 χ^2/NDF : 2933.7/45
 All: -0.806 ± 0.011 χ^2/NDF : 6071.4/86

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.287 ± 2.614 $\chi^2/\text{NDF}: 0.0/0$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: 6.177 ± 0.637 $\chi^2/\text{NDF}: 190.6/1$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

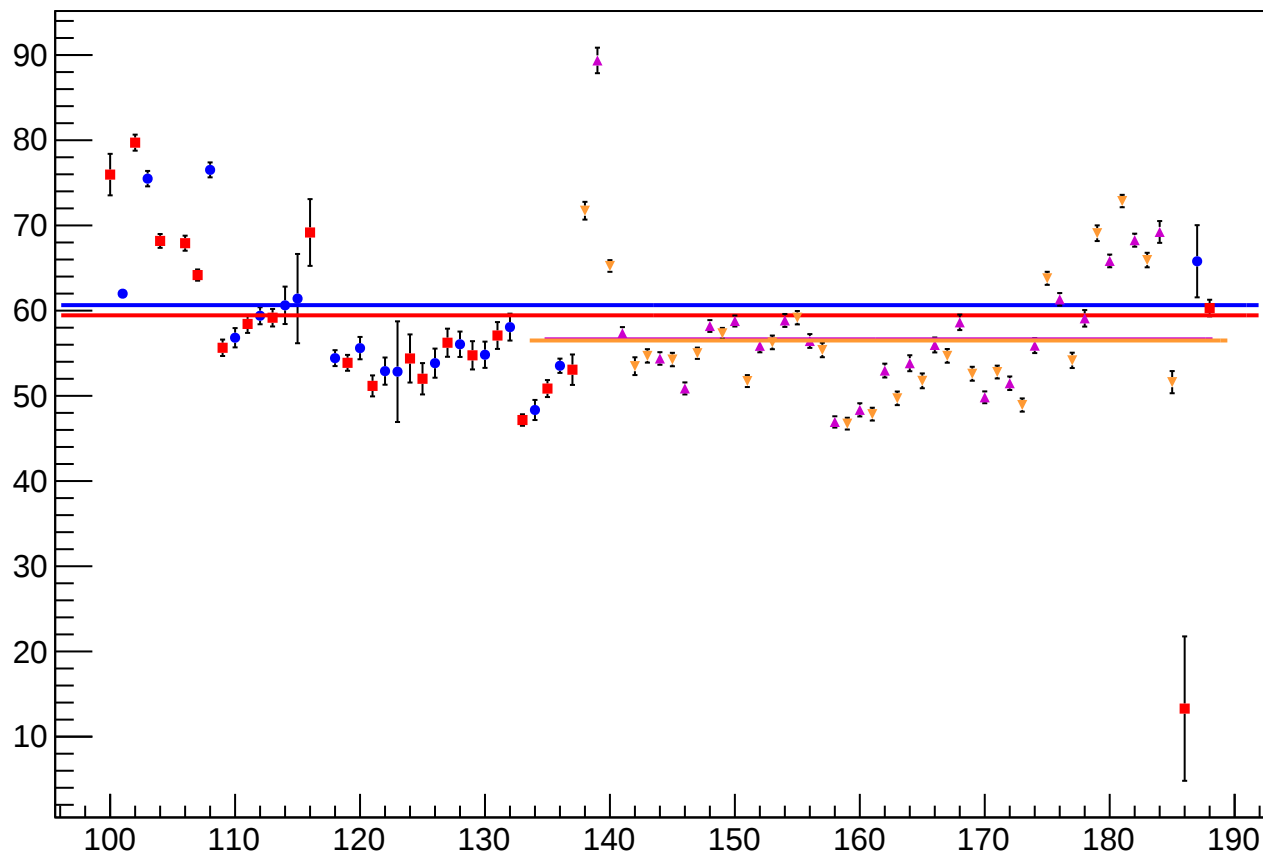
Right: 6.071 ± 0.619 $\chi^2/\text{NDF}: 191.1/2$

In: -10.201 ± 0.205 $\chi^2/\text{NDF}: 3481.9/23$

Out: -8.636 ± 0.192 $\chi^2/\text{NDF}: 4923.9/26$

All: -9.368 ± 0.140 $\chi^2/\text{NDF}: 8436.8/50$

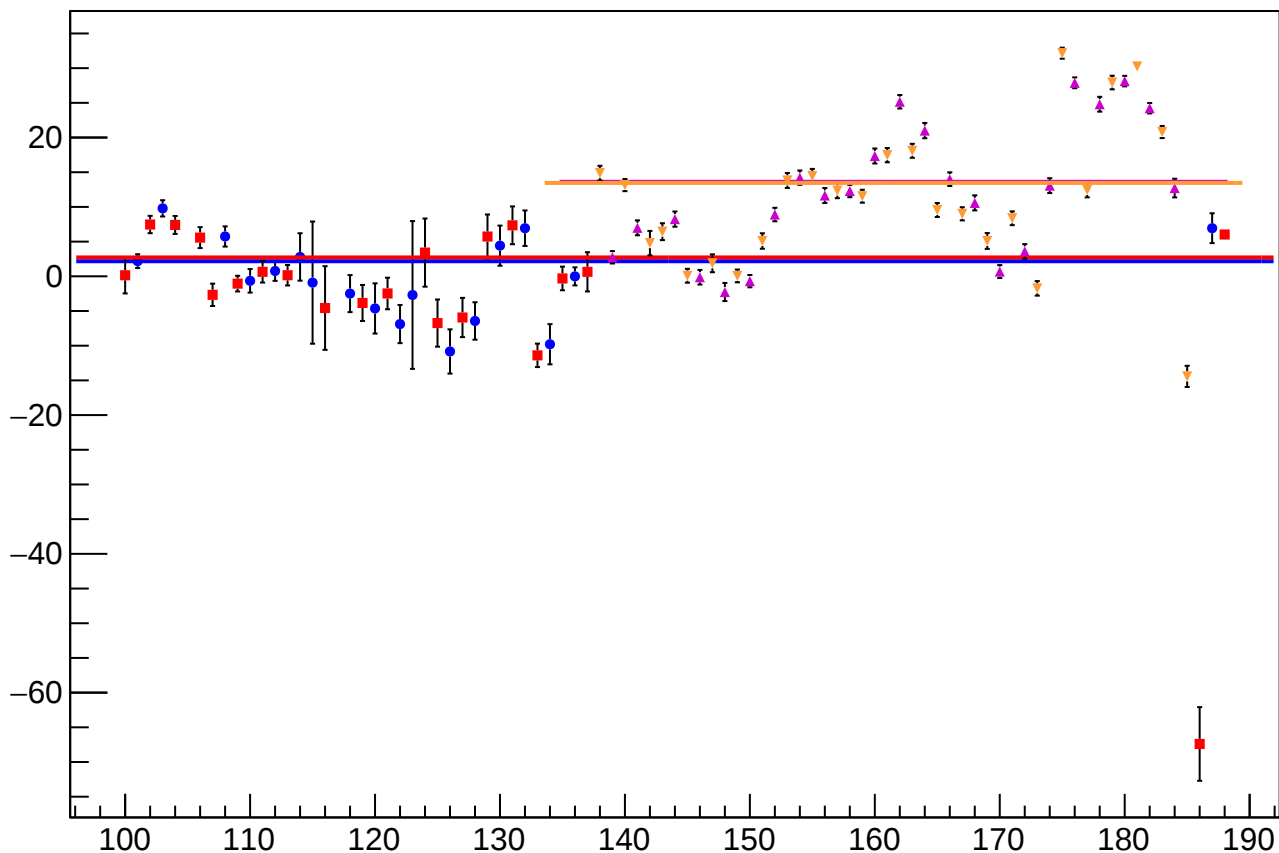
reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 60.645 $\pm$ 0.263 χ^2 /NDF: 926.0/17
 Left Out: 56.496 $\pm$ 0.159 χ^2 /NDF: 1968.0/24
 Right Out: 59.449 $\pm$ 0.240 χ^2 /NDF: 1355.6/20
 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: 59.993 $\pm$ 0.177 χ^2 /NDF: 2292.9/38
 In: 57.770 $\pm$ 0.140 χ^2 /NDF: 2700.9/40
 Out: 57.395 $\pm$ 0.133 χ^2 /NDF: 3428.7/45
 All: 57.572 $\pm$ 0.096 χ^2 /NDF: 6133.4/86

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 2.172 $\pm$ 0.449 χ^2 /NDF: 125.4/17

Left Out: 13.462 $\pm$ 0.202 χ^2 /NDF: 2736.3/24

Right Out: 2.720 $\pm$ 0.328 χ^2 /NDF: 381.5/20

Left In: 13.620 $\pm$ 0.204 χ^2 /NDF: 2315.4/22

Left: 13.540 $\pm$ 0.144 χ^2 /NDF: 5052.0/47

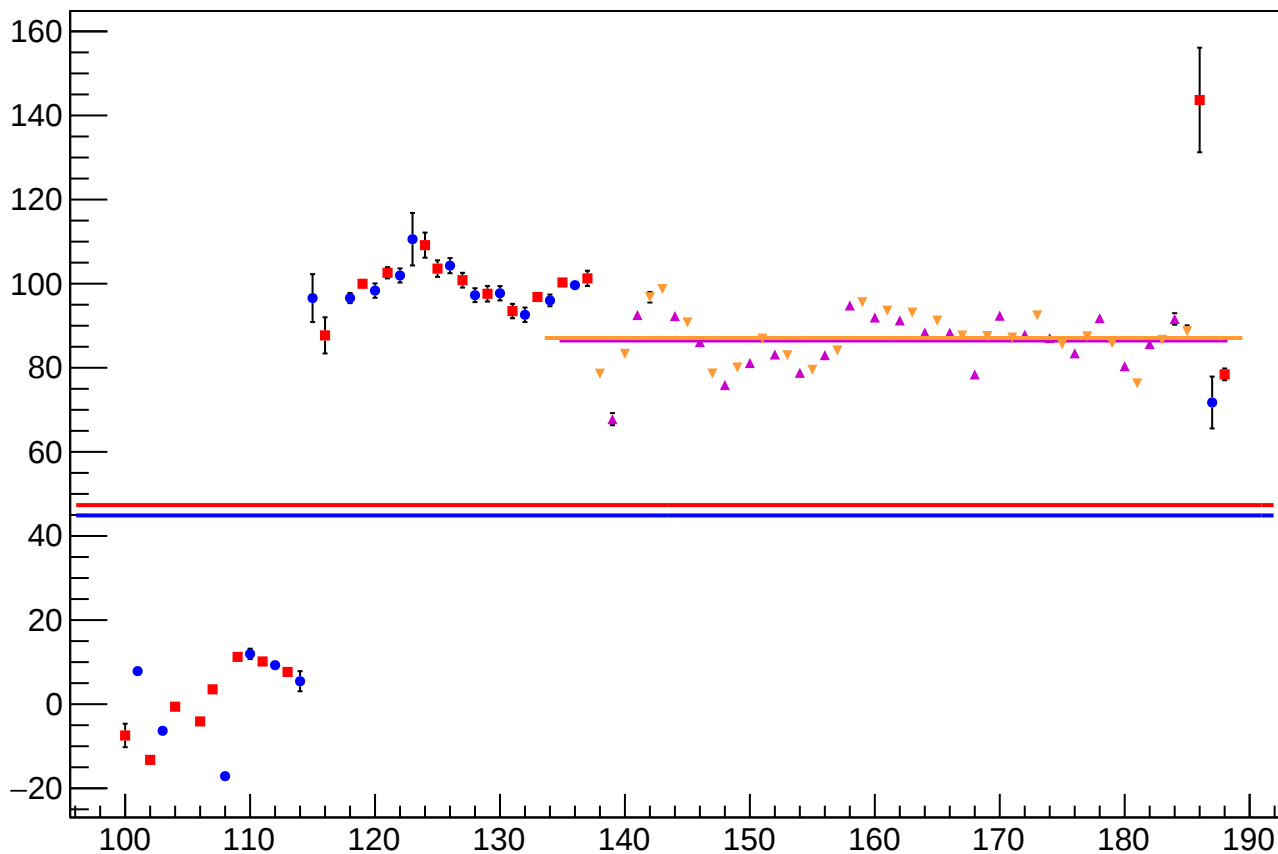
Right: 2.529 $\pm$ 0.265 χ^2 /NDF: 507.8/38

In: 11.656 $\pm$ 0.186 χ^2 /NDF: 2978.7/40

Out: 10.522 $\pm$ 0.172 χ^2 /NDF: 3895.6/45

All: 11.044 $\pm$ 0.126 χ^2 /NDF: 6894.4/86

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 44.883 $\pm$ 0.305 χ^2 /NDF: 24719.1/17

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 47.345 $\pm$ 0.284 χ^2 /NDF: 28793.4/20

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

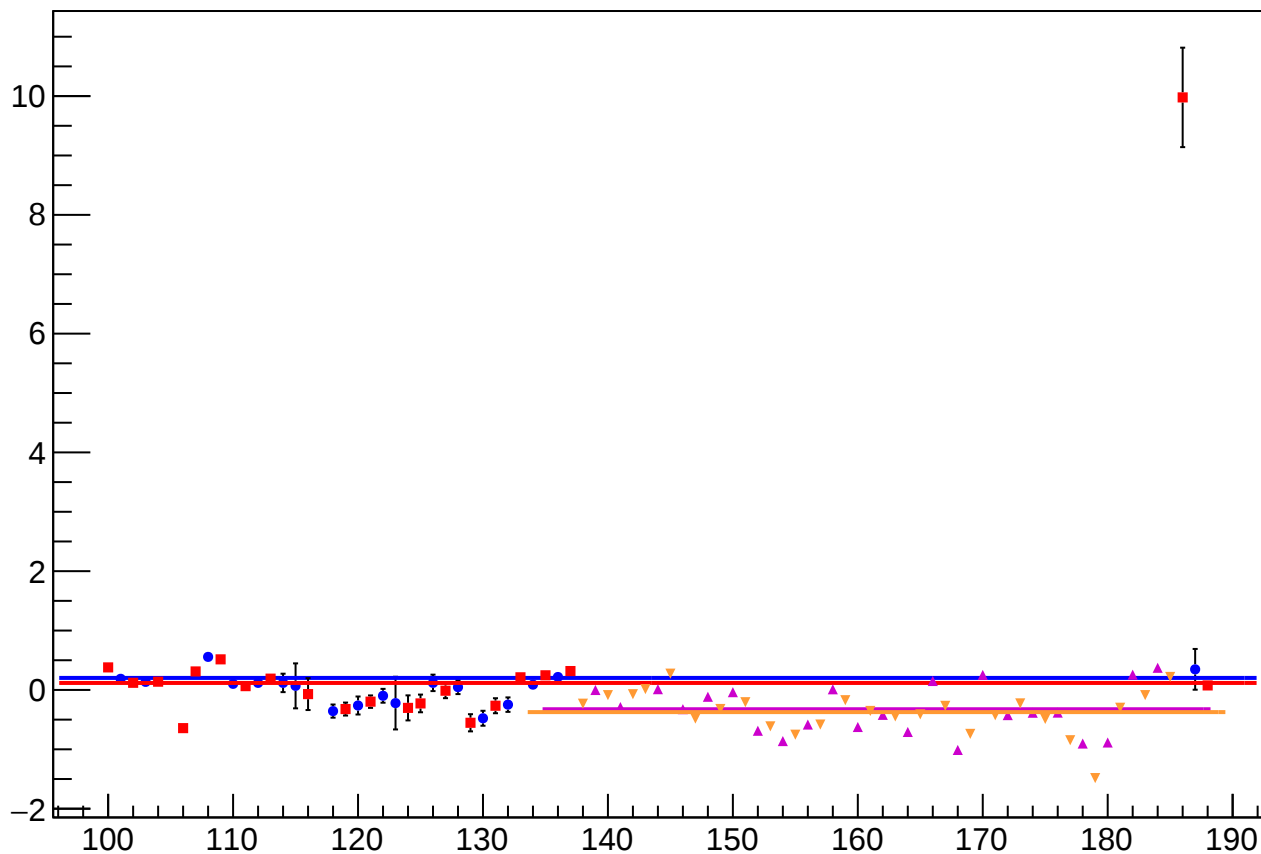
Right: 46.202 $\pm$ 0.208 χ^2 /NDF: 53547.5/38

In: 75.308 $\pm$ 0.158 χ^2 /NDF:39360.4/40

Out: 75.759 $\pm$ 0.151 χ^2 /NDF:43917.6/45

All: 75.543 $\pm$ 0.109 χ^2 /NDF: 83282.2/86

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.202 ± 0.014 χ^2/NDF : 215.8/17

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: 0.118 ± 0.013 χ^2/NDF : 638.2/20

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

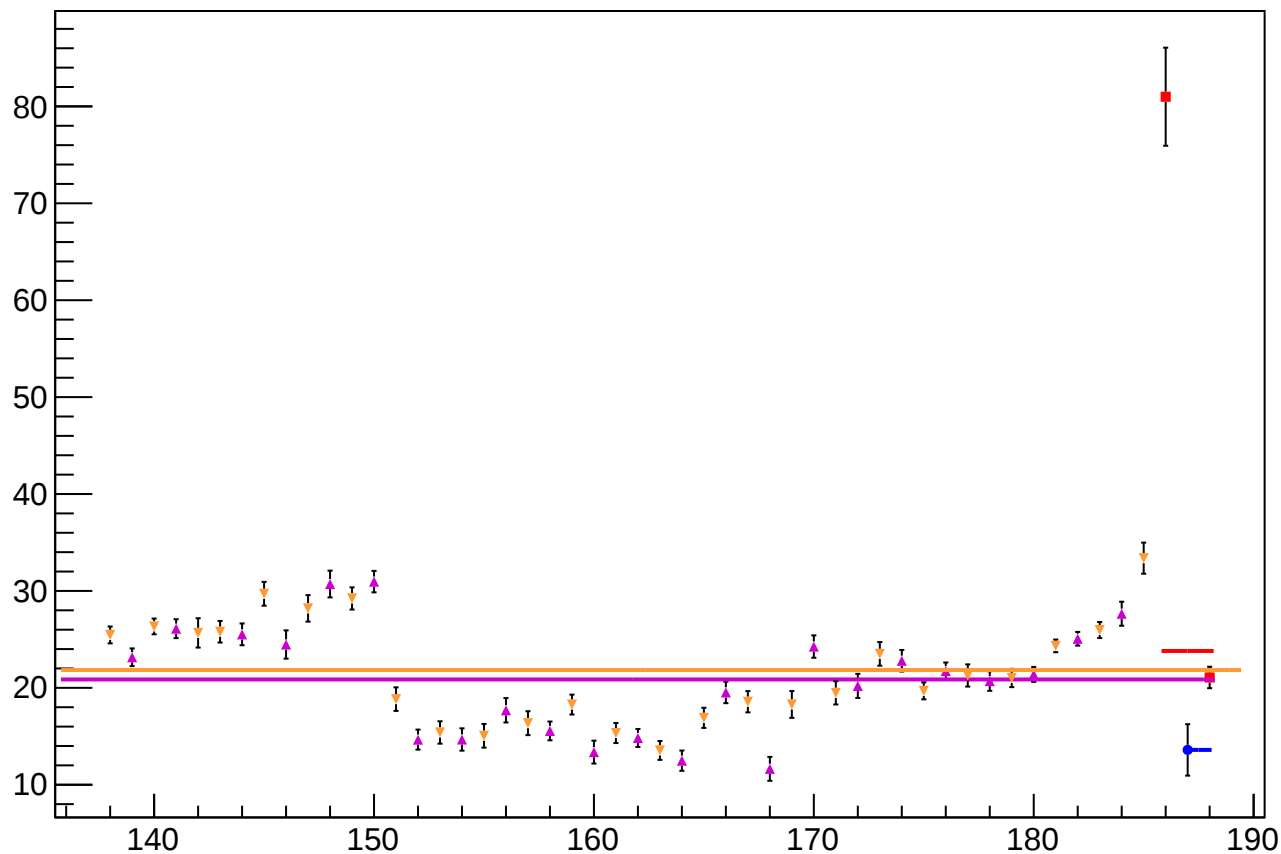
Right: 0.156 ± 0.009 χ^2/NDF : 874.1/38

In: -0.191 ± 0.007 χ^2/NDF : 3551.3/40

Out: -0.231 ± 0.007 χ^2/NDF : 3362.9/45

All: -0.212 ± 0.005 χ^2/NDF : 6931.1/86

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.595 $\pm$ 2.654 χ^2 /NDF: 0.0/0

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF:524.3/24

Right Out: 23.805 $\pm$ 1.081 χ^2 /NDF: 133.8/1

Left In: 20.866 $\pm$ 0.217 χ^2 /NDF:576.9/22

Left: 21.366 $\pm$ 0.151 χ^2 /NDF: 1111.6/47

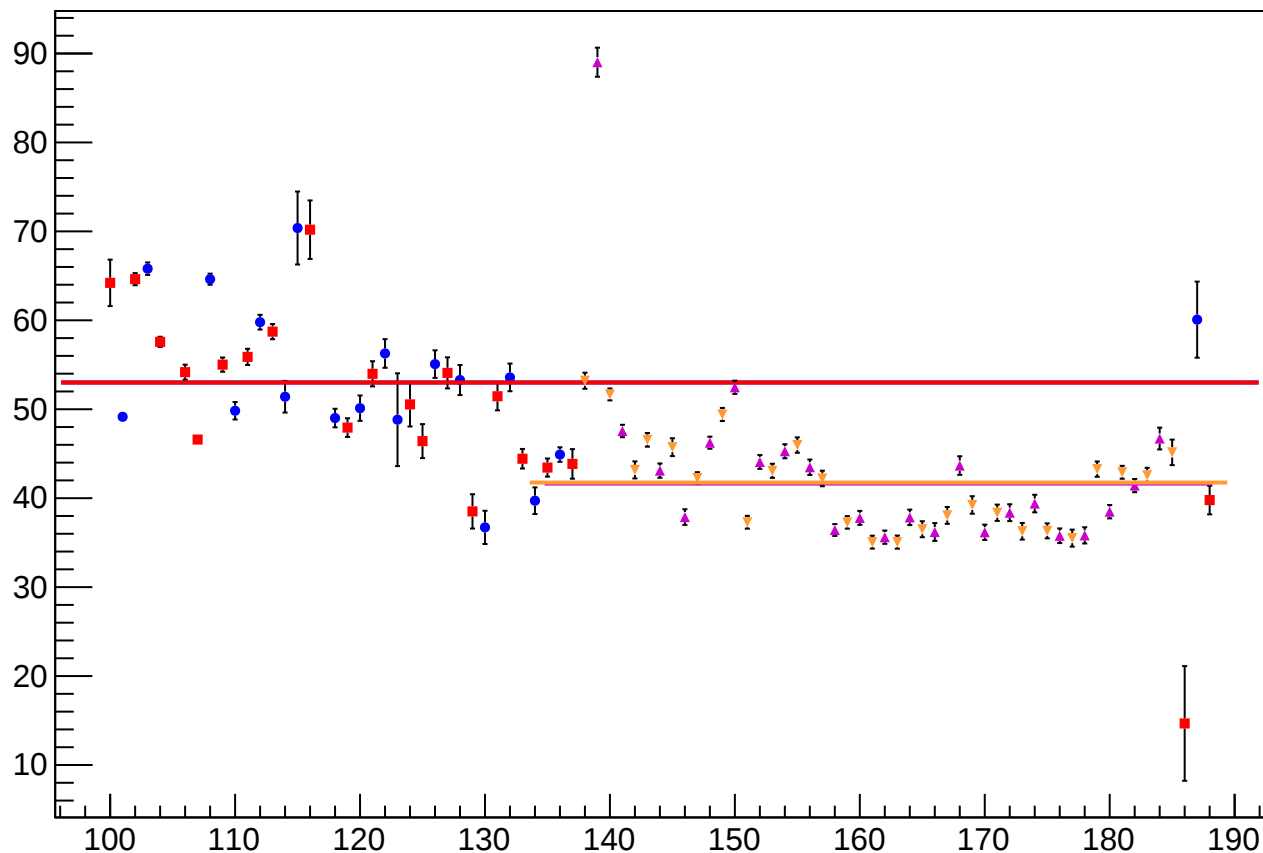
Right: 22.352 $\pm$ 1.001 χ^2 /NDF: 146.4/2

In: 20.817 $\pm$ 0.216 χ^2 /NDF:584.3/23

Out: 21.908 $\pm$ 0.206 χ^2 /NDF:661.3/26

All: 21.388 $\pm$ 0.149 χ^2 /NDF: 1259.0/50

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 53.011 $\pm$ 0.211 χ^2 /NDF: 1200.6/17

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 53.005 $\pm$ 0.224 χ^2 /NDF: 981.5/20

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

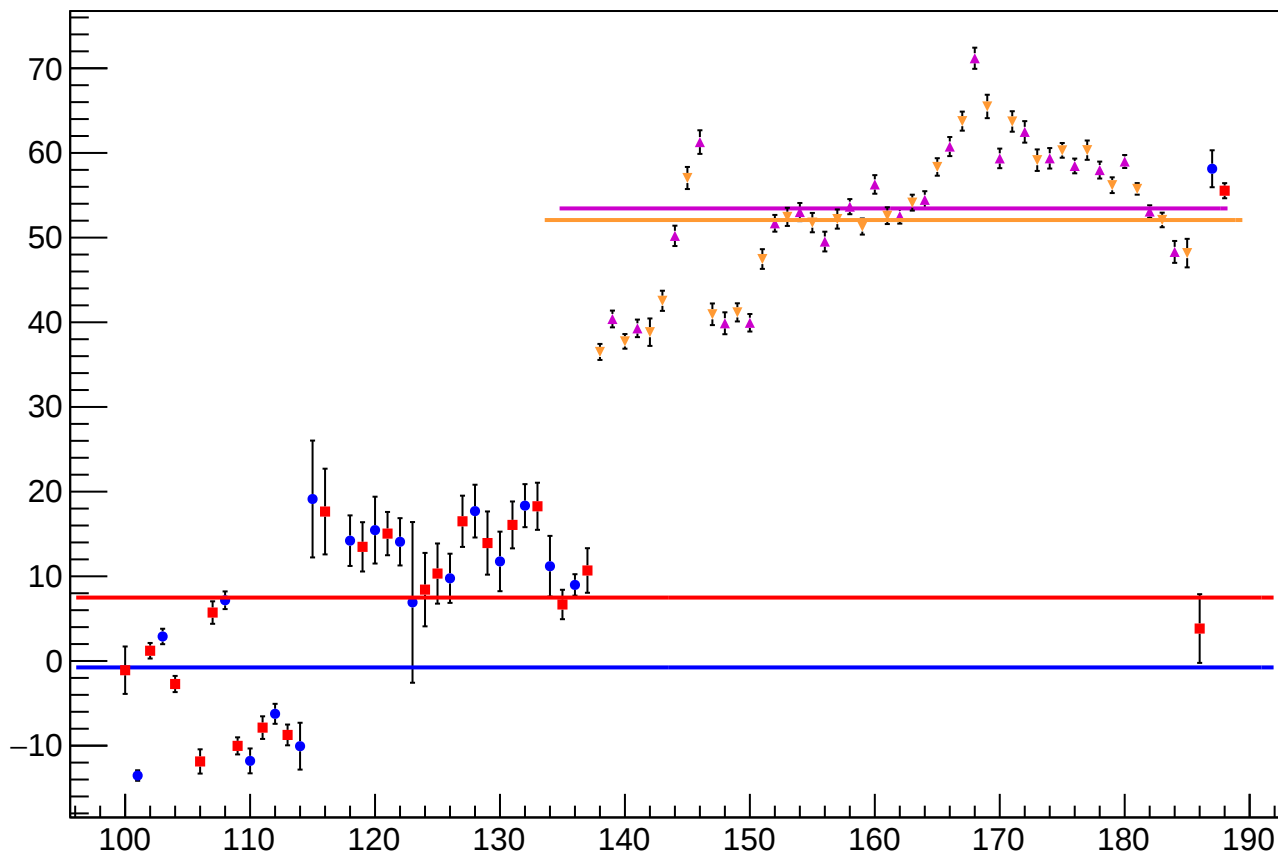
Right: 53.008 $\pm$ 0.154 χ^2 /NDF: 2182.1/38

In: 46.243 $\pm$ 0.134 χ^2 /NDF:4543.3/40

Out: 45.714 $\pm$ 0.133 χ^2 /NDF:3624.9/45

All: 45.977 $\pm$ 0.094 χ^2 /NDF: 8176.0/86

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.760 ± 0.360 χ^2/NDF : 1581.1/17

Left Out: 52.076 ± 0.210 χ^2/NDF : 1450.9/24

Right Out: 7.490 ± 0.346 χ^2/NDF : 3915.7/20

Left In: 53.447 ± 0.215 χ^2/NDF : 1169.0/22

Left: 52.744 ± 0.150 χ^2/NDF : 2640.6/47

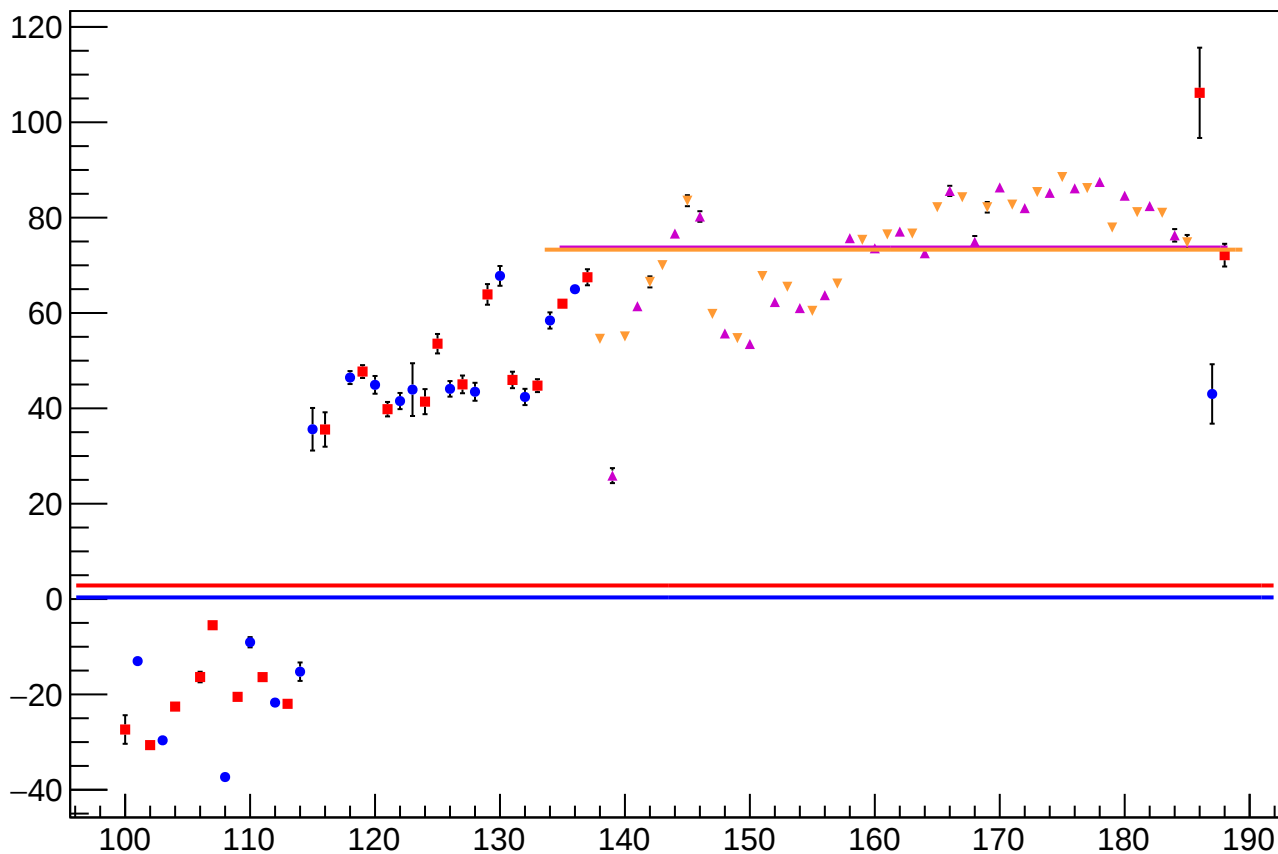
Right: 3.522 ± 0.249 χ^2/NDF : 5769.9/38

In: 39.141 ± 0.185 χ^2/NDF : 19471.8/40

Out: 40.084 ± 0.180 χ^2/NDF : 17490.7/45

All: 39.626 ± 0.129 χ^2/NDF : 36975.9/86

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.342 ± 0.247 χ^2/NDF : 18267.0/17

Left Out: 73.284 ± 0.187 χ^2/NDF : 3144.2/24

Right Out: 2.848 ± 0.265 χ^2/NDF : 16390.2/20

Left In: 73.730 ± 0.194 χ^2/NDF : 3775.8/22

Left: 73.498 ± 0.135 χ^2/NDF : 6922.7/47

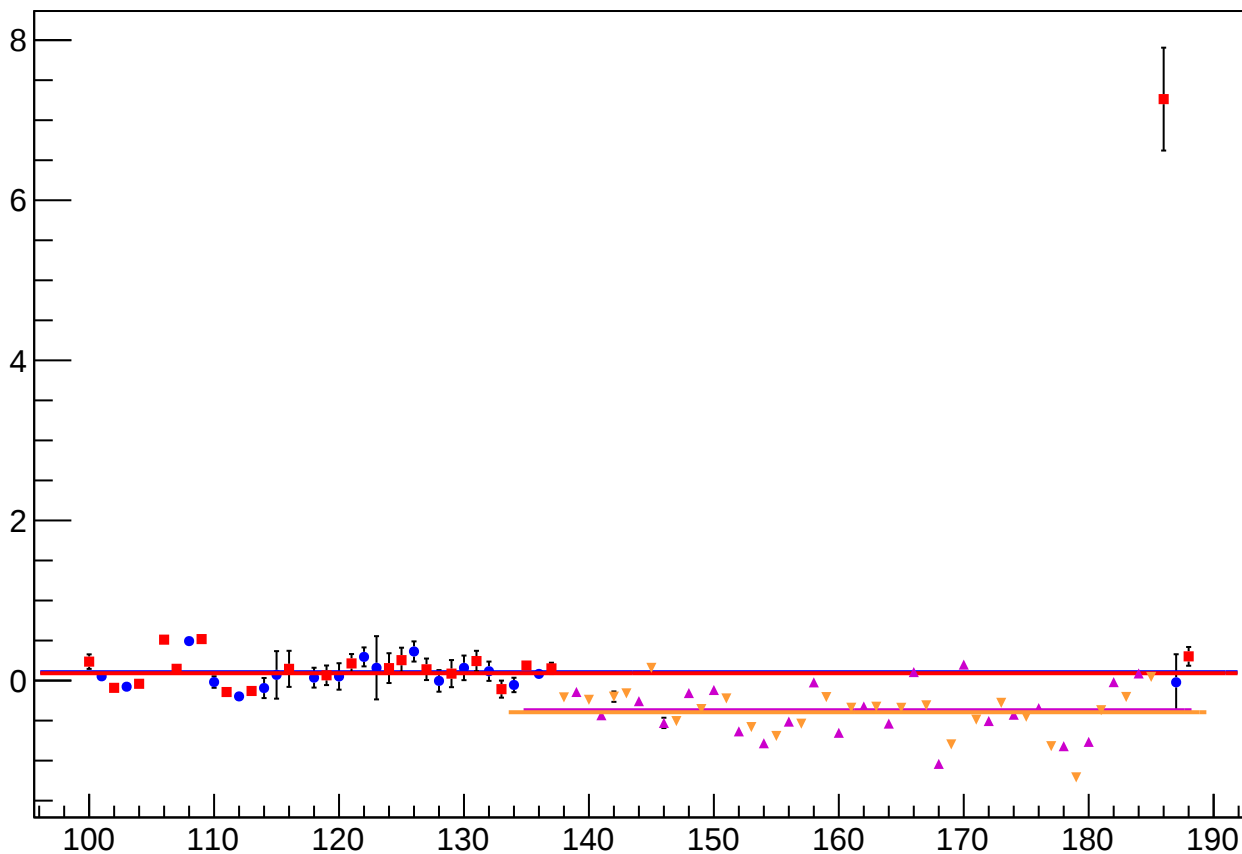
Right: 1.509 ± 0.181 χ^2/NDF : 34705.0/38

In: 45.734 ± 0.153 χ^2/NDF : 76445.9/40

Out: 49.897 ± 0.153 χ^2/NDF : 66718.6/45

All: 47.817 ± 0.108 χ^2/NDF : 143535.8/86

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.105 ± 0.011 $\chi^2/\text{NDF}: 401.0/17$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: 0.092 ± 0.011 $\chi^2/\text{NDF}: 518.7/20$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

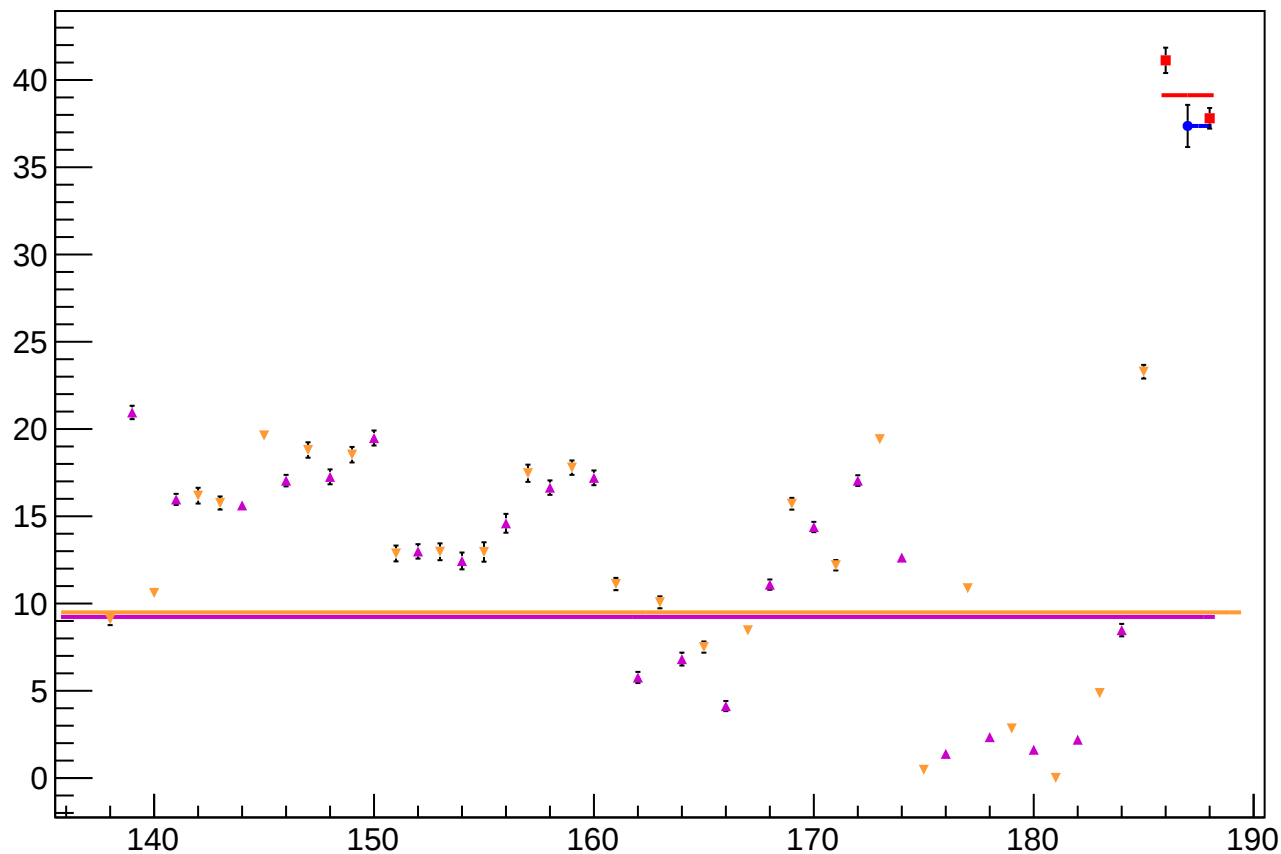
Right: 0.098 ± 0.008 $\chi^2/\text{NDF}: 920.3/38$

In: -0.188 ± 0.007 $\chi^2/\text{NDF}: 2857.9/40$

Out: -0.212 ± 0.007 $\chi^2/\text{NDF}: 2697.3/45$

All: -0.200 ± 0.005 $\chi^2/\text{NDF}: 5560.9/86$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 37.366 $\pm$ 1.208 χ^2 /NDF: 0.0/0

Left Out: 9.495 $\pm$ 0.061 χ^2 /NDF:12609.1/24

Right Out: 39.128 $\pm$ 0.459 χ^2 /NDF: 12.6/1

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

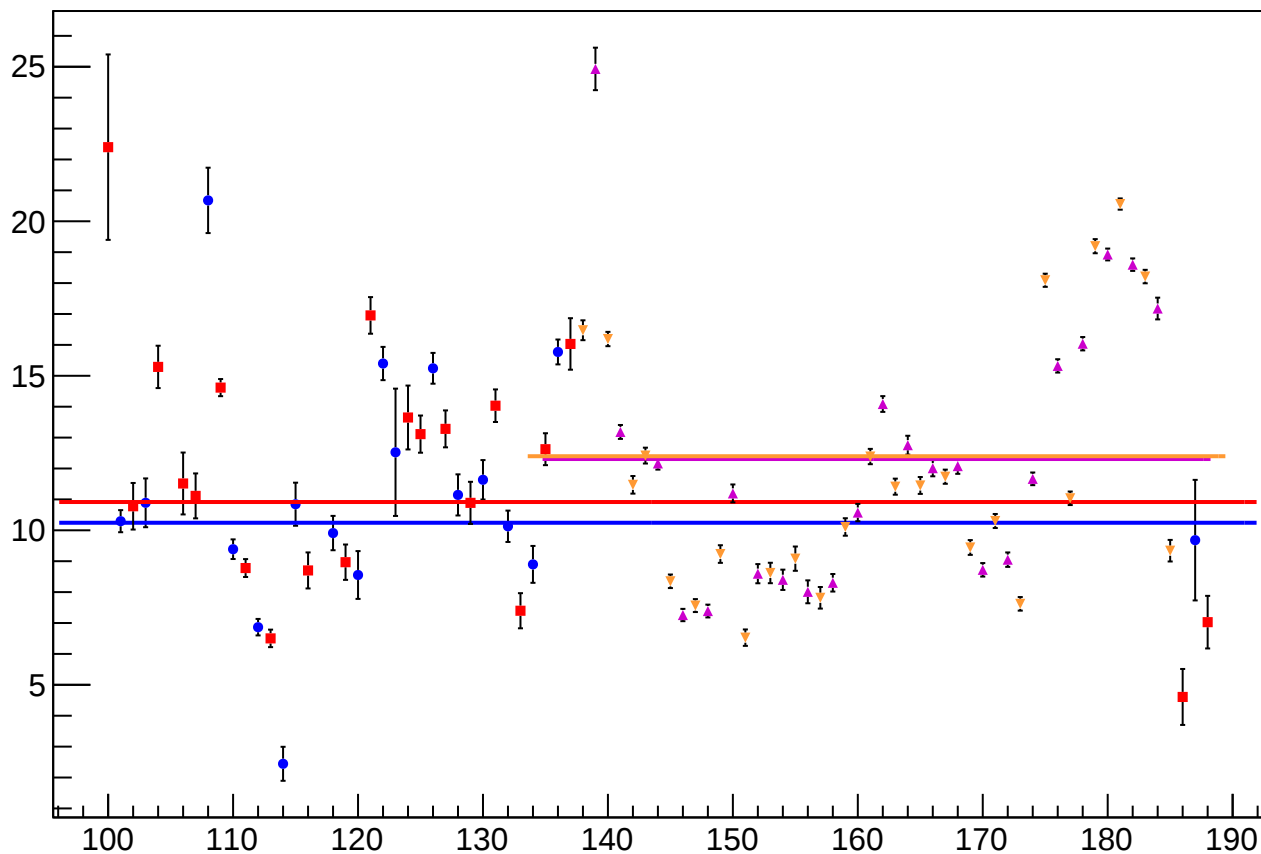
Right: 38.906 $\pm$ 0.429 χ^2 /NDF: 14.4/2

In: 9.307 $\pm$ 0.063 χ^2 /NDF:11277.1/23

Out: 10.014 $\pm$ 0.061 χ^2 /NDF:16725.6/26

All: 9.674 $\pm$ 0.044 χ^2 /NDF: 28068.0/50

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.244 $\pm$ 0.119 χ^2 /NDF: 866.2/17

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 10.915 $\pm$ 0.115 χ^2 /NDF: 888.4/20

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

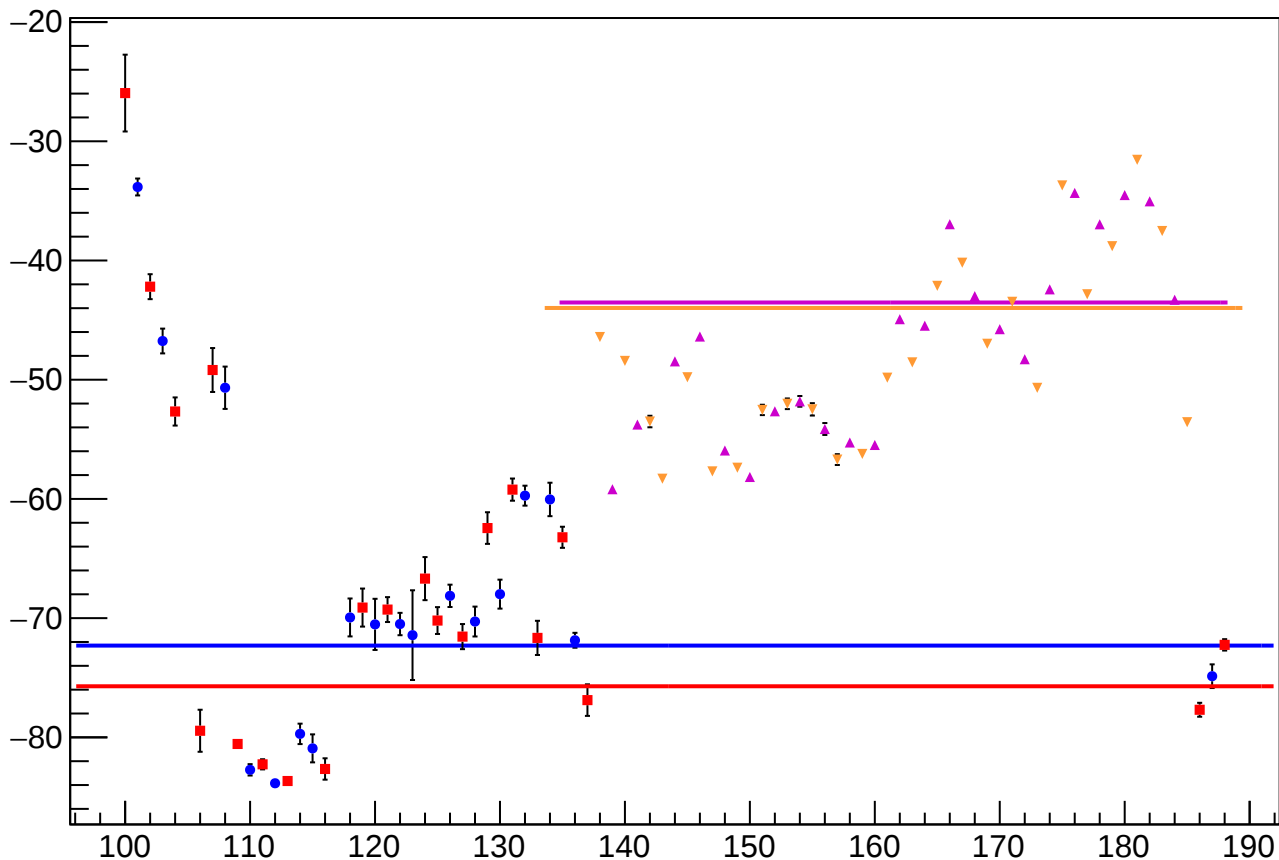
Right: 10.594 $\pm$ 0.083 χ^2 /NDF: 1771.0/38

In: 11.987 $\pm$ 0.047 χ^2 /NDF: 6720.0/40

Out: 12.162 $\pm$ 0.046 χ^2 /NDF: 8572.1/45

All: 12.077 $\pm$ 0.033 χ^2 /NDF: 15299.3/86

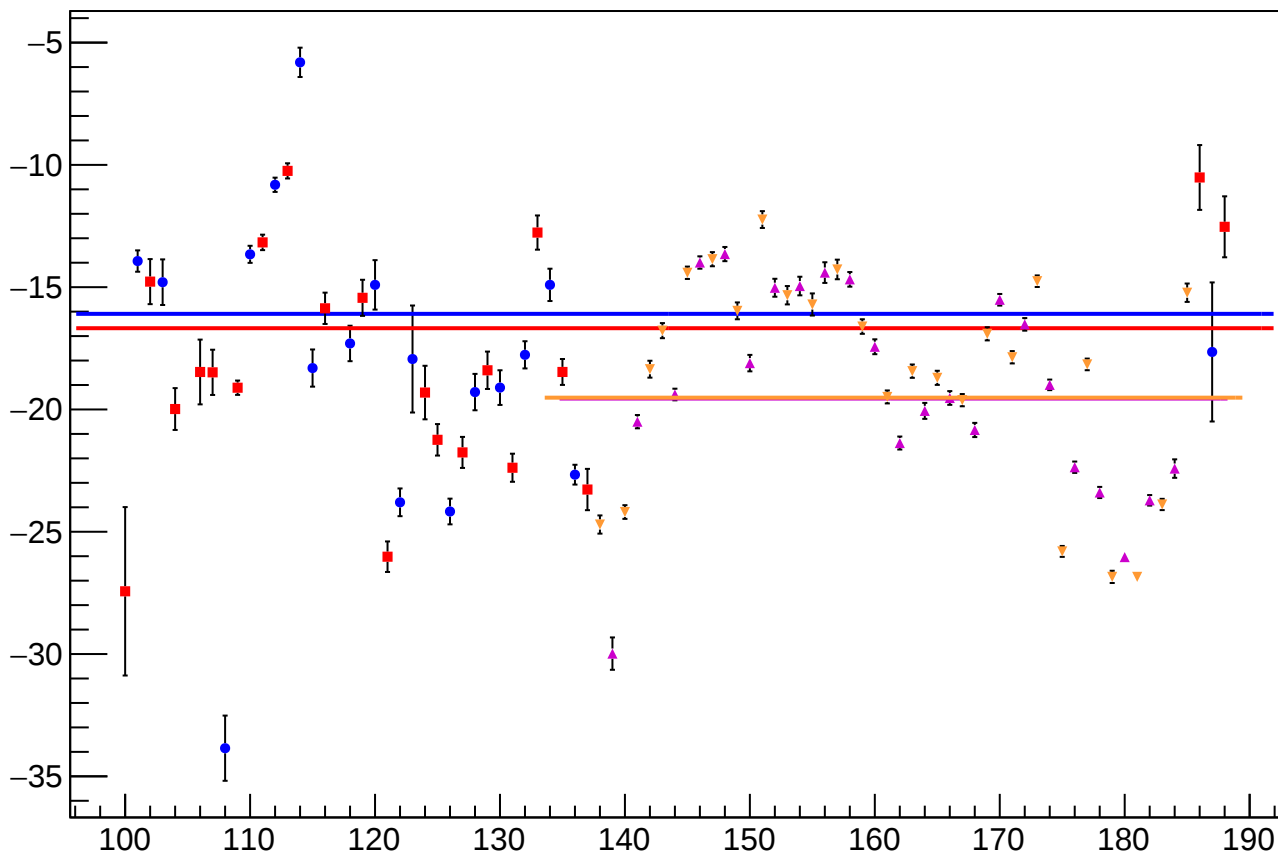
reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.303 ± 0.195 $\chi^2/\text{NDF}: 5569.7/17$
 Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$
 Right Out: -75.715 ± 0.163 $\chi^2/\text{NDF}: 3526.3/20$
 Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$
 Right: -74.311 ± 0.125 $\chi^2/\text{NDF}: 9277.0/38$
 In: -46.279 ± 0.060 $\chi^2/\text{NDF}: 40616.8/40$
 Out: -47.999 ± 0.058 $\chi^2/\text{NDF}: 54495.7/45$
 All: -47.173 ± 0.042 $\chi^2/\text{NDF}: 95536.6/86$

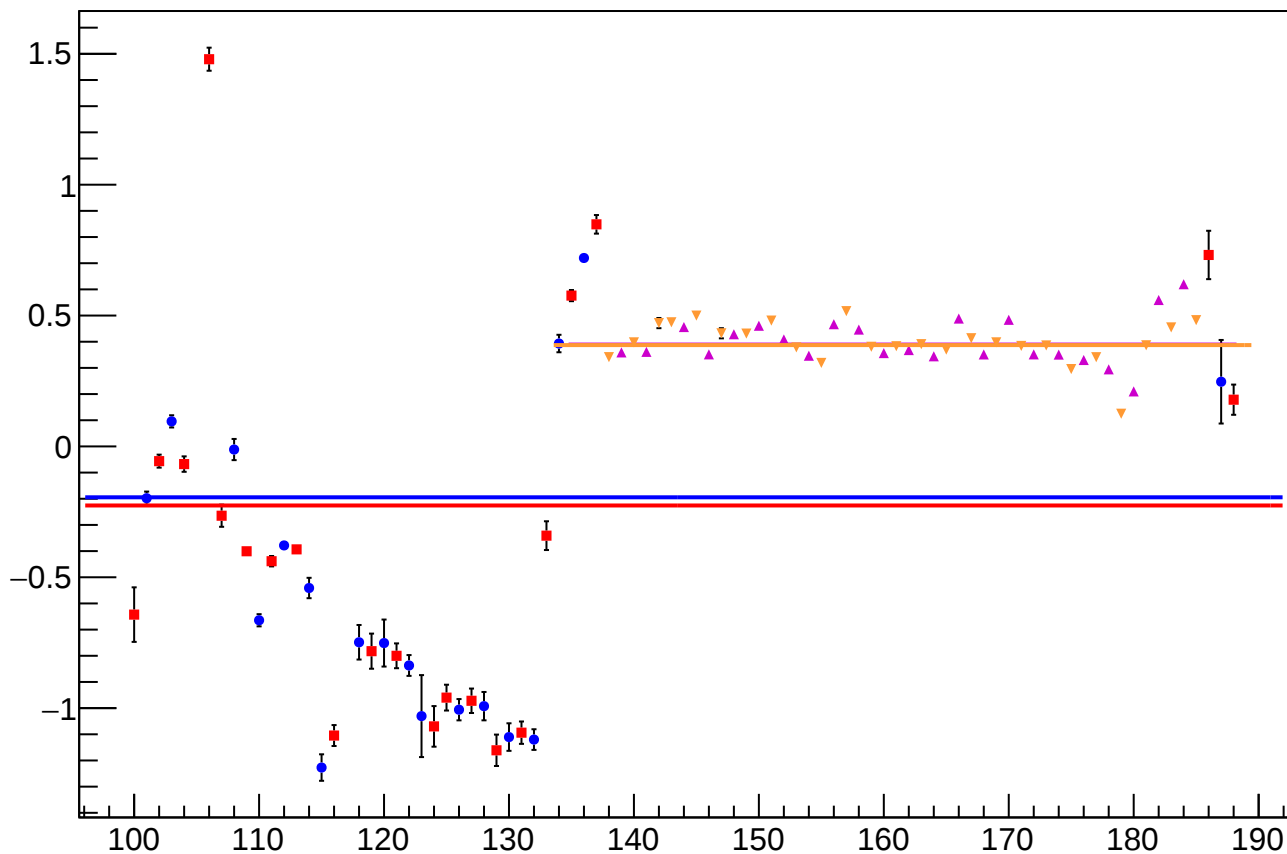
reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.091 ± 0.133 $\chi^2/\text{NDF}: 1621.0/17$
 Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$
 Right Out: -16.678 ± 0.127 $\chi^2/\text{NDF}: 1244.6/20$
 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: -16.397 ± 0.092 $\chi^2/\text{NDF}: 2875.7/38$
 In: -19.010 ± 0.053 $\chi^2/\text{NDF}: 6506.6/40$
 Out: -19.059 ± 0.051 $\chi^2/\text{NDF}: 8181.6/45$
 All: -19.035 ± 0.037 $\chi^2/\text{NDF}: 14688.6/86$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.194 ± 0.008 χ^2/NDF : 6324.2/17

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.226 ± 0.007 χ^2/NDF : 6335.7/20

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

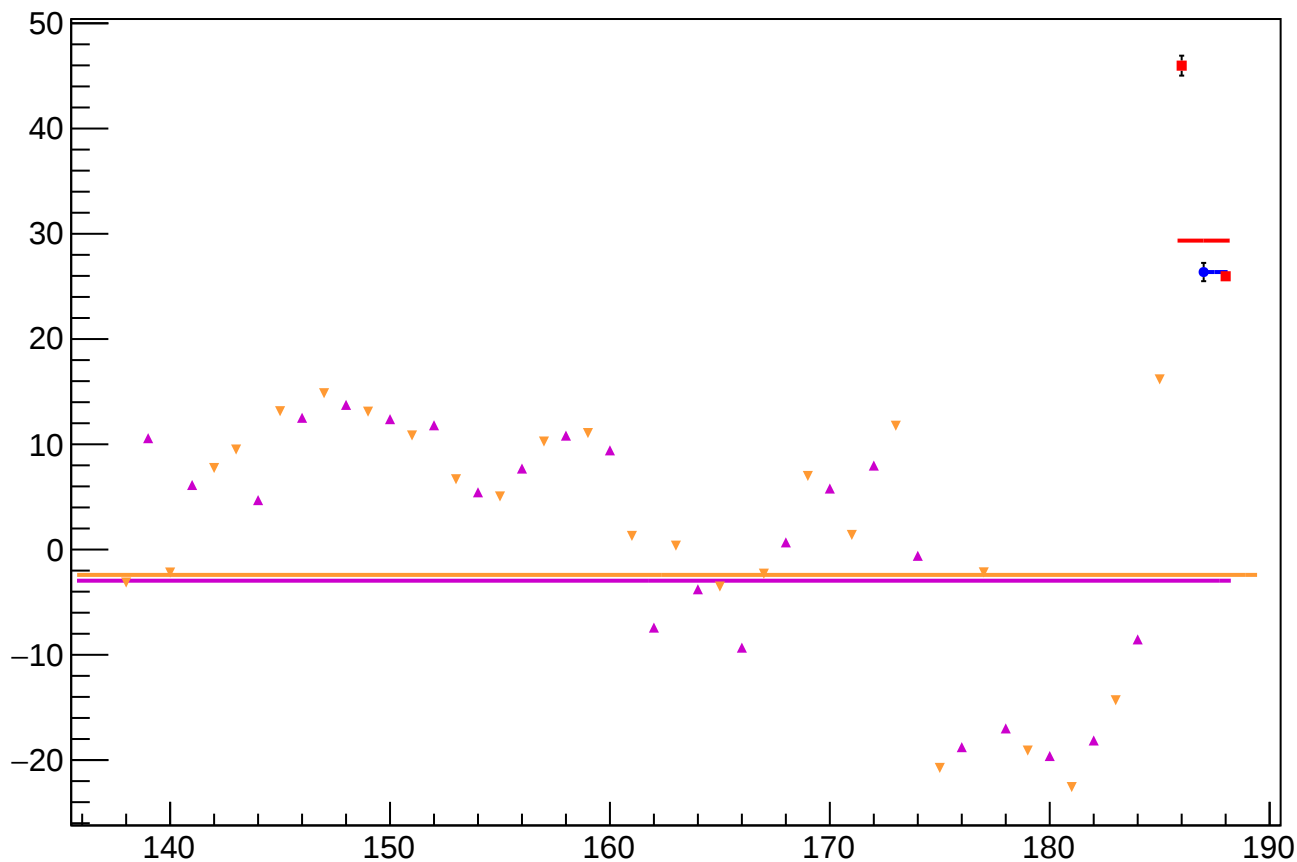
Right: -0.211 ± 0.005 χ^2/NDF : 12669.0/38

In: 0.326 ± 0.002 χ^2/NDF : 12915.7/40

Out: 0.317 ± 0.002 χ^2/NDF : 13910.2/45

All: 0.321 ± 0.002 χ^2/NDF : 26833.7/86

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 26.366 $\pm$ 0.868 χ^2 /NDF: 0.0/0

Left Out: -2.407 $\pm$ 0.053 χ^2 /NDF: 56368.5/24

Right Out: 29.352 $\pm$ 0.390 χ^2 /NDF: 370.6/1

Left In: -2.959 $\pm$ 0.055 χ^2 /NDF: 45922.6/22

Left: -2.672 $\pm$ 0.038 χ^2 /NDF: 102343.8/47

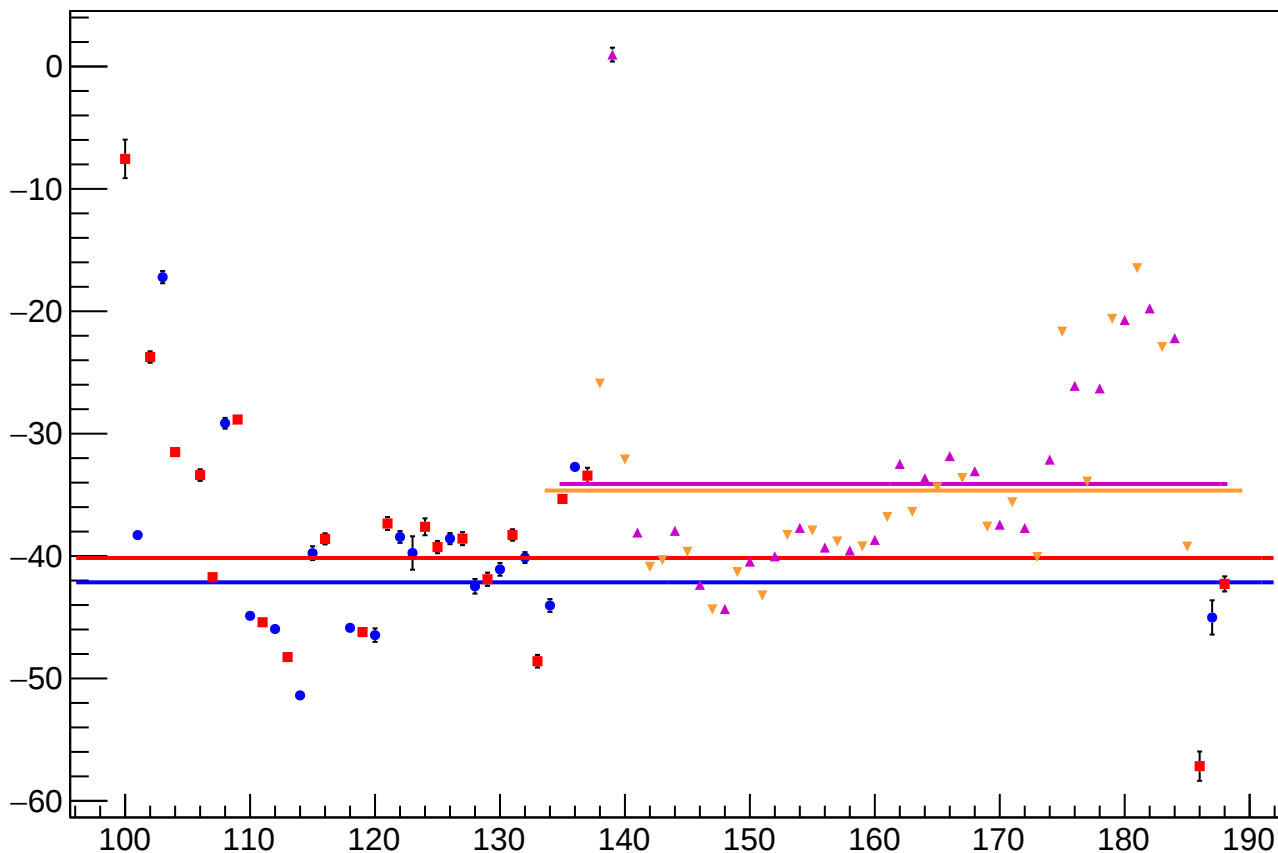
Right: 28.851 $\pm$ 0.356 χ^2 /NDF: 380.5/2

In: -2.843 $\pm$ 0.055 χ^2 /NDF: 47059.7/23

Out: -1.835 $\pm$ 0.052 χ^2 /NDF: 63257.0/26

All: -2.316 $\pm$ 0.038 χ^2 /NDF: 110493.7/50

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -42.145 ± 0.078 $\chi^2/\text{NDF}: 6557.4/17$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -40.154 ± 0.072 $\chi^2/\text{NDF}: 11535.6/20$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

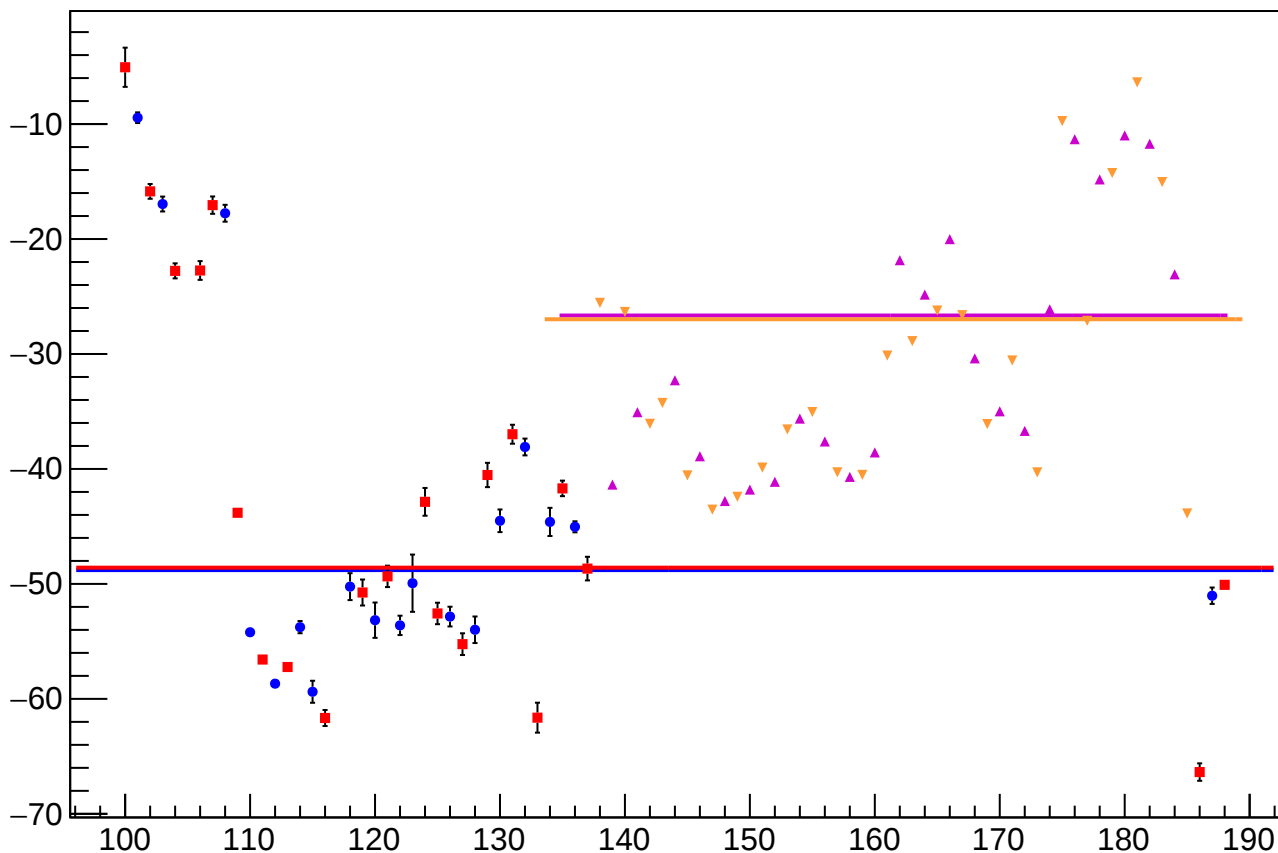
Right: -41.072 ± 0.053 $\chi^2/\text{NDF}: 18443.8/38$

In: -36.044 ± 0.038 $\chi^2/\text{NDF}: 43659.7/40$

Out: -36.028 ± 0.036 $\chi^2/\text{NDF}: 50573.2/45$

All: -36.036 ± 0.026 $\chi^2/\text{NDF}: 94233.0/86$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.797 ± 0.123 $\chi^2/\text{NDF}: 14669.5/17$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -48.587 ± 0.102 $\chi^2/\text{NDF}: 12321.5/20$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

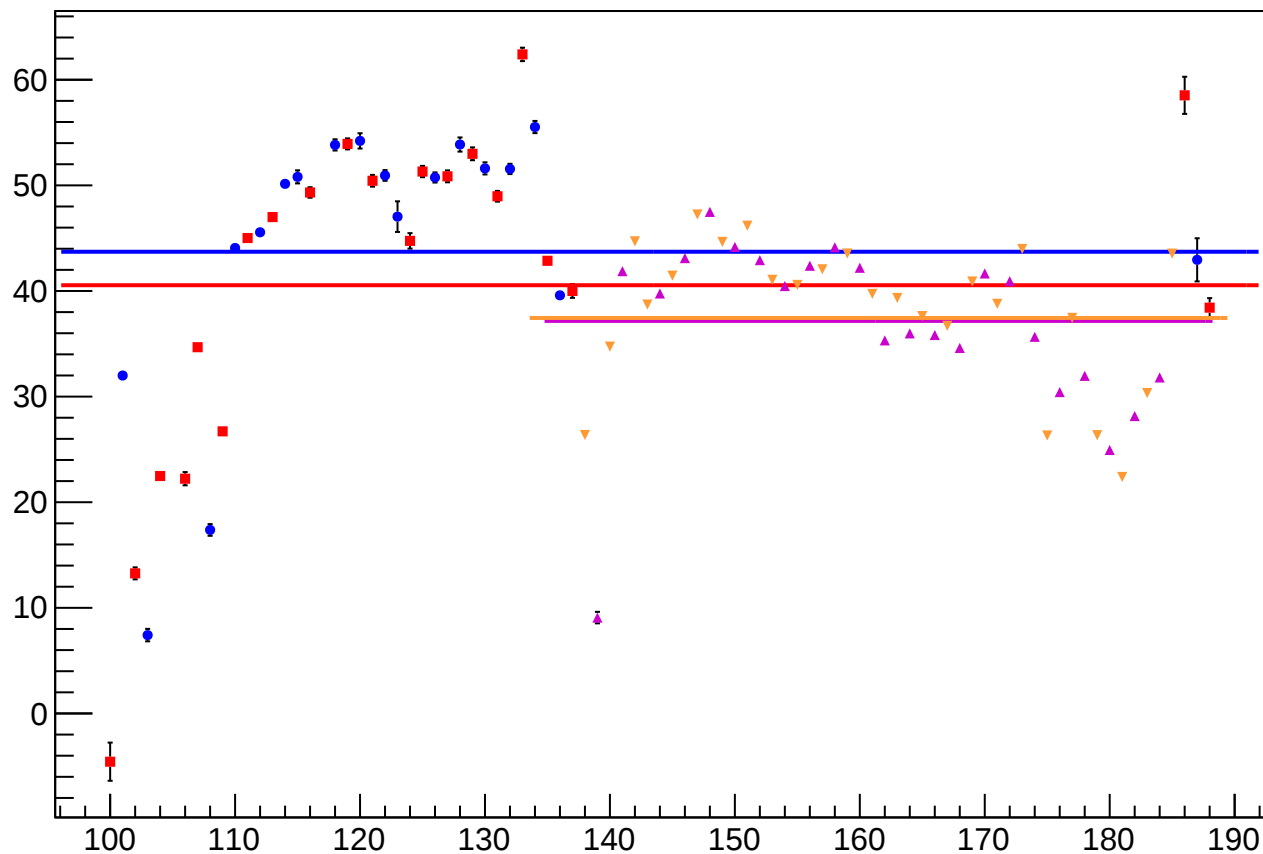
Right: -48.672 ± 0.078 $\chi^2/\text{NDF}: 26992.7/38$

In: -30.338 ± 0.050 $\chi^2/\text{NDF}: 83811.4/40$

Out: -31.630 ± 0.047 $\chi^2/\text{NDF}: 97221.9/45$

All: -31.025 ± 0.034 $\chi^2/\text{NDF}: 181385.8/86$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.715 $\pm$ 0.087 χ^2 /NDF: 10564.4/17

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 40.545 $\pm$ 0.080 χ^2 /NDF: 17688.8/20

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

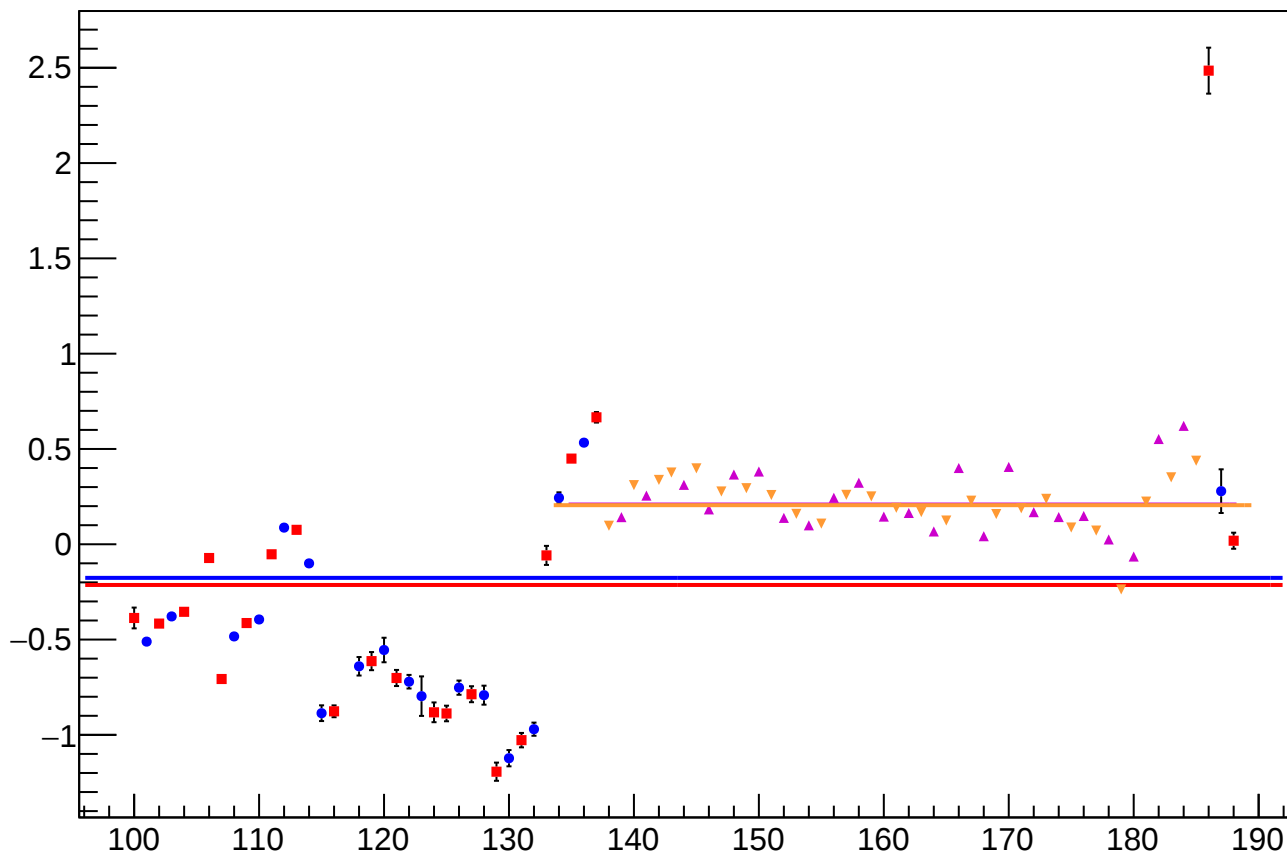
Right: 41.995 $\pm$ 0.059 χ^2 /NDF: 28974.0/38

In: 38.760 $\pm$ 0.043 χ^2 /NDF:32091.1/40

Out: 38.248 $\pm$ 0.041 χ^2 /NDF:40376.1/45

All: 38.490 $\pm$ 0.029 χ^2 /NDF: 72542.3/86

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.176 ± 0.005 χ^2/NDF : 7369.3/17

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.214 ± 0.004 χ^2/NDF : 7950.3/20

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

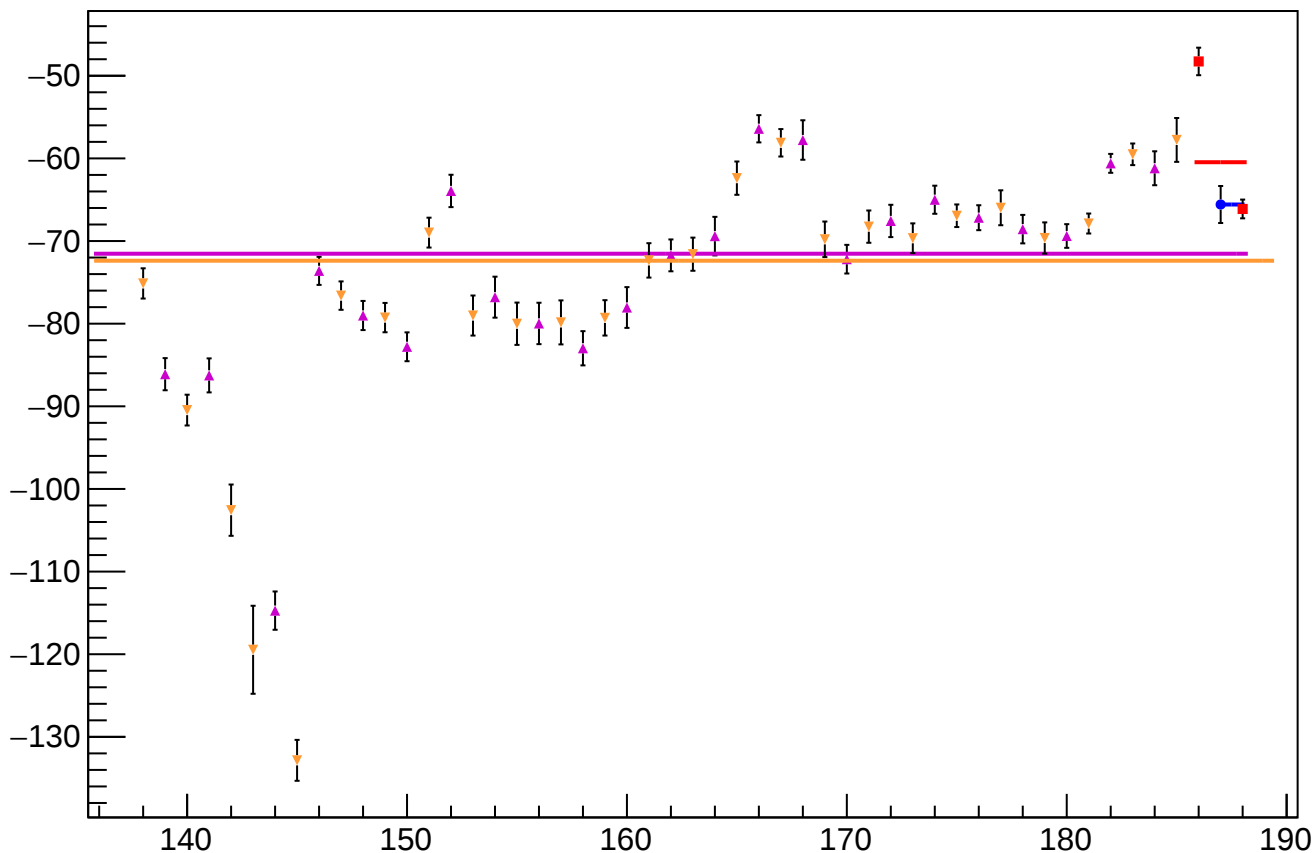
Right: -0.197 ± 0.003 χ^2/NDF : 15352.9/38

In: 0.140 ± 0.002 χ^2/NDF : 17658.5/40

Out: 0.119 ± 0.002 χ^2/NDF : 19381.4/45

All: 0.129 ± 0.001 χ^2/NDF : 37096.6/86

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



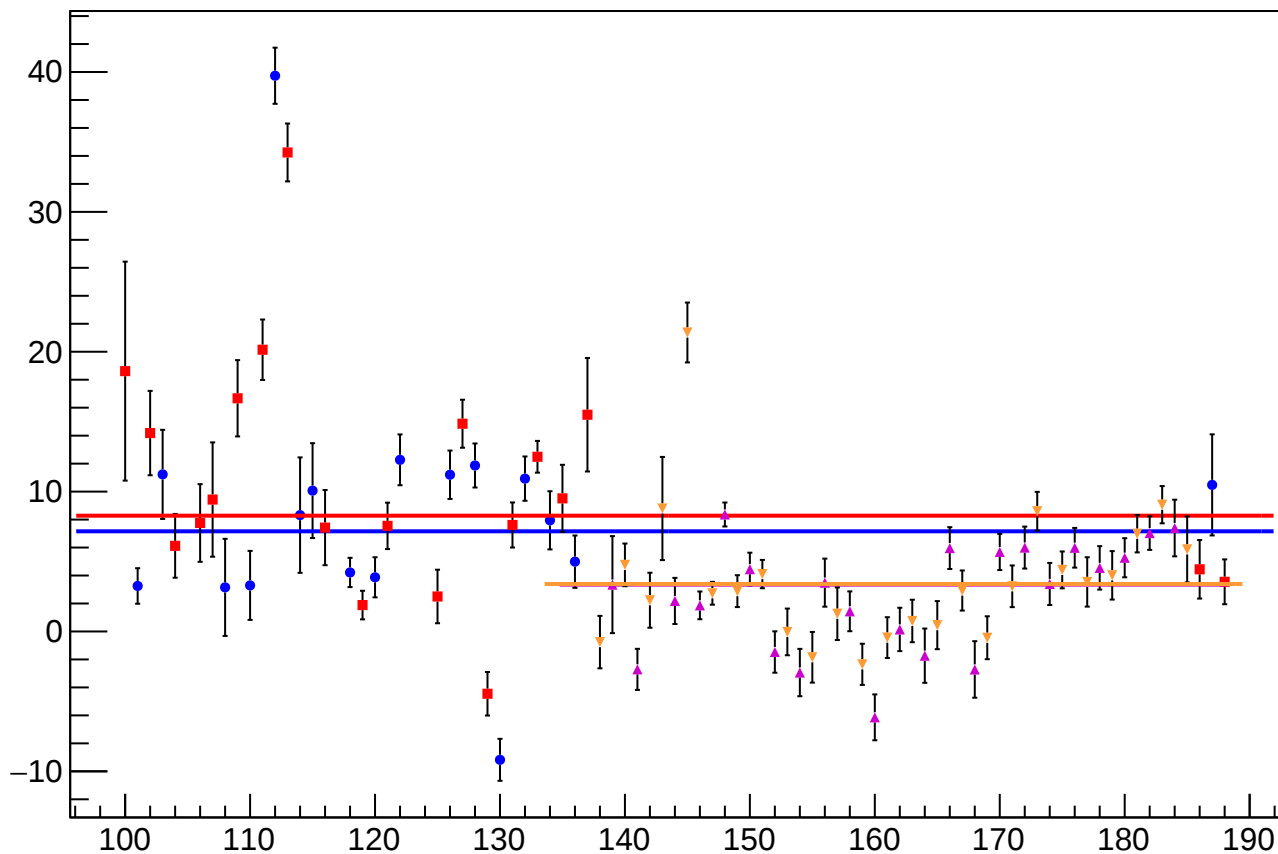
Right In: -65.579 ± 2.239 χ^2/NDF : 0.0/0
 Left Out: -72.381 ± 0.382 χ^2/NDF : 1199.9/24
 Right Out: -60.461 ± 0.938 χ^2/NDF : 78.4/1
 Left In: -71.534 ± 0.382 χ^2/NDF : 851.4/22

Left: -71.957 ± 0.270 χ^2/NDF : 2053.7/47
 Right: -61.225 ± 0.865 χ^2/NDF : 82.9/2

In: -71.366 ± 0.376 χ^2/NDF : 858.3/23
 Out: -70.686 ± 0.354 χ^2/NDF : 1416.9/26

All: -71.005 ± 0.258 χ^2/NDF : 2276.9/50

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.161 ± 0.437 $\chi^2/\text{NDF}: 441.3/16$

Left Out: 3.392 ± 0.294 $\chi^2/\text{NDF}: 169.9/24$

Right Out: 8.278 ± 0.423 $\chi^2/\text{NDF}: 363.2/19$

Left In: 3.349 ± 0.298 $\chi^2/\text{NDF}: 163.5/22$

Left: 3.371 ± 0.209 $\chi^2/\text{NDF}: 333.4/47$

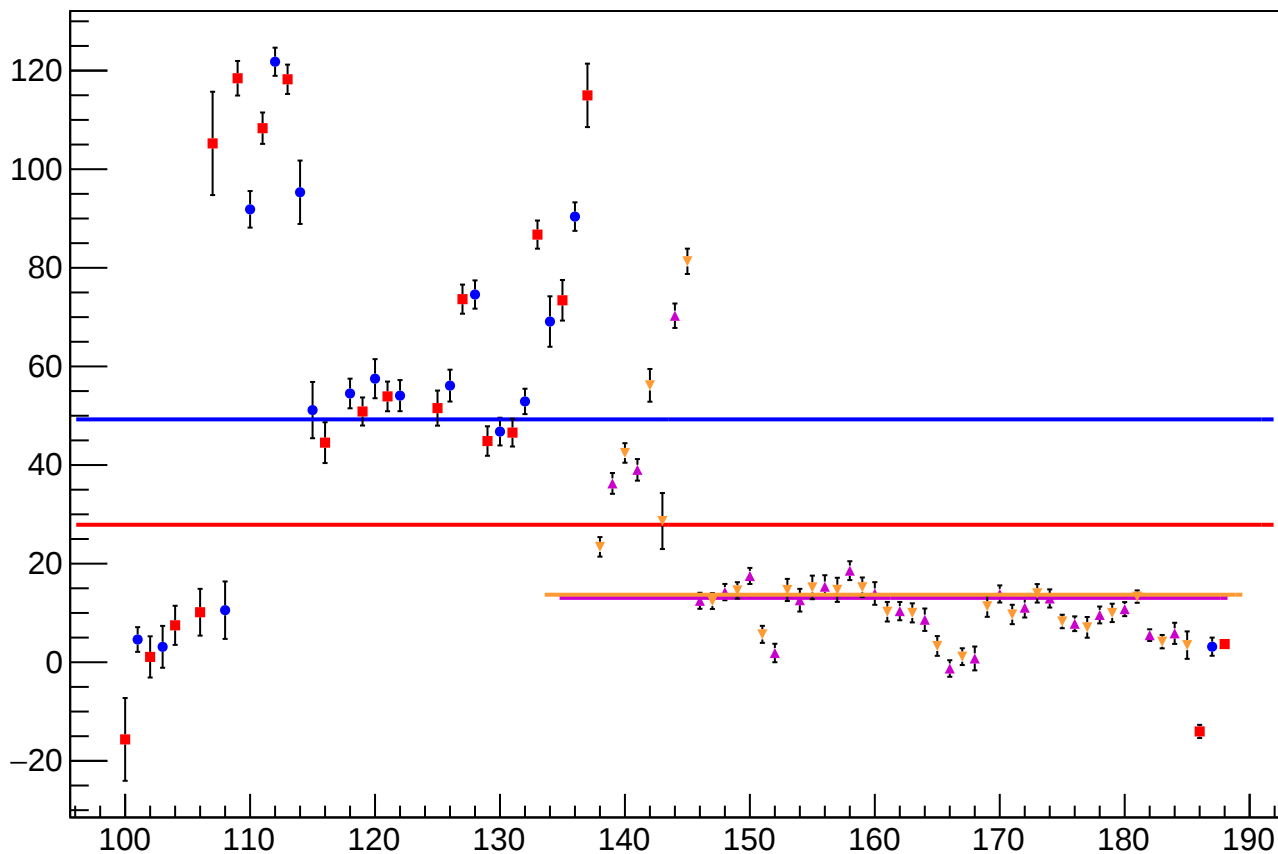
Right: 7.738 ± 0.304 $\chi^2/\text{NDF}: 807.9/36$

In: 4.560 ± 0.246 $\chi^2/\text{NDF}: 656.7/39$

Out: 4.982 ± 0.241 $\chi^2/\text{NDF}: 623.0/44$

All: 4.775 ± 0.172 $\chi^2/\text{NDF}: 1281.3/84$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 49.259+/-0.763 χ^2/NDF : 2248.6/16

Left Out: 13.700+/-0.381 χ^2/NDF :1307.0/24

Right Out: 27.886+/-0.563 χ^2/NDF : 5312.4/19

Left In: 13.058+/-0.380 χ^2/NDF :1024.7/22

Left: 13.378+/-0.269 χ^2/NDF : 2333.1/47

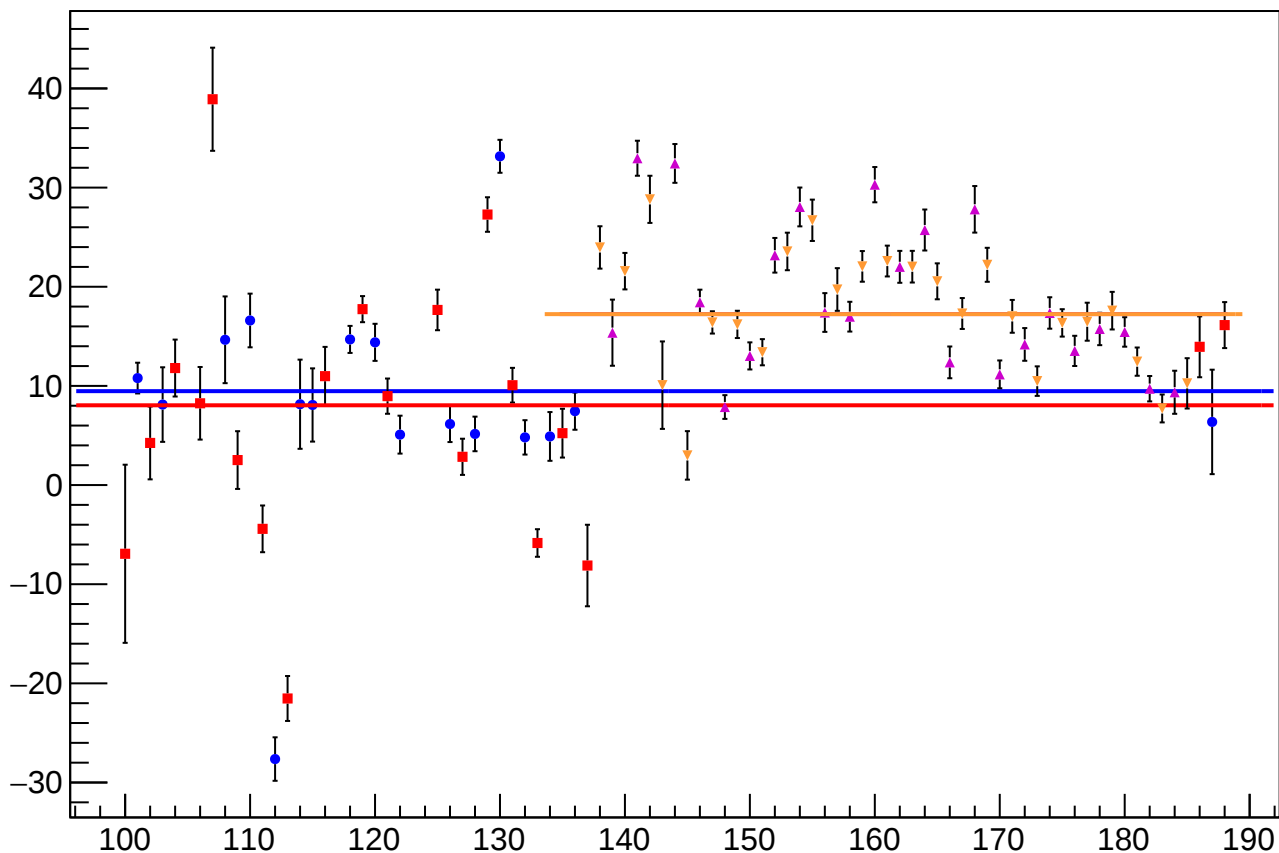
Right: 35.423+/-0.453 χ^2/NDF : 8068.9/36

In: 20.244+/-0.340 χ^2/NDF :5077.2/39

Out: 18.153+/-0.316 χ^2/NDF :7054.7/44

All: 19.120+/-0.231 χ^2/NDF : 12152.2/84

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.471 ± 0.505 $\chi^2/\text{NDF}: 547.6/16$

Left Out: 17.238 ± 0.336 $\chi^2/\text{NDF}: 246.5/24$

Right Out: 8.044 ± 0.497 $\chi^2/\text{NDF}: 584.0/19$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.241 ± 0.239 $\chi^2/\text{NDF}: 687.3/47$

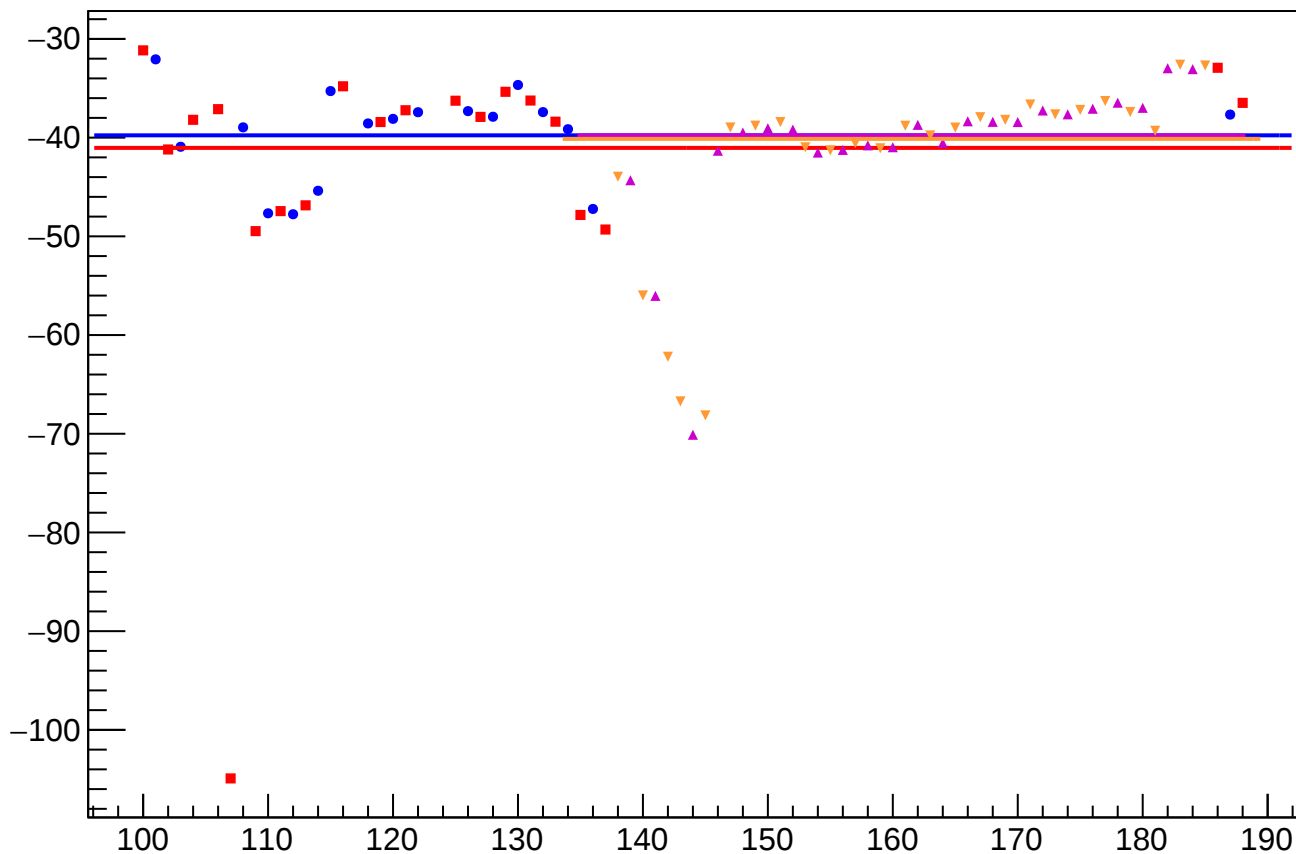
Right: 8.746 ± 0.354 $\chi^2/\text{NDF}: 1135.6/36$

In: 14.828 ± 0.282 $\chi^2/\text{NDF}: 1151.5/39$

Out: 14.352 ± 0.278 $\chi^2/\text{NDF}: 1065.3/44$

All: 14.587 ± 0.198 $\chi^2/\text{NDF}: 2218.2/84$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.766 ± 0.031 $\chi^2/\text{NDF}: 26154.5/16$

Left Out: -40.126 ± 0.016 $\chi^2/\text{NDF}: 185897.0/24$

Right Out: -41.039 ± 0.030 $\chi^2/\text{NDF}: 98226.8/19$

Left In: -39.785 ± 0.016 $\chi^2/\text{NDF}: 144494.5/22$

Left: -39.955 ± 0.011 $\chi^2/\text{NDF}: 330628.3/47$

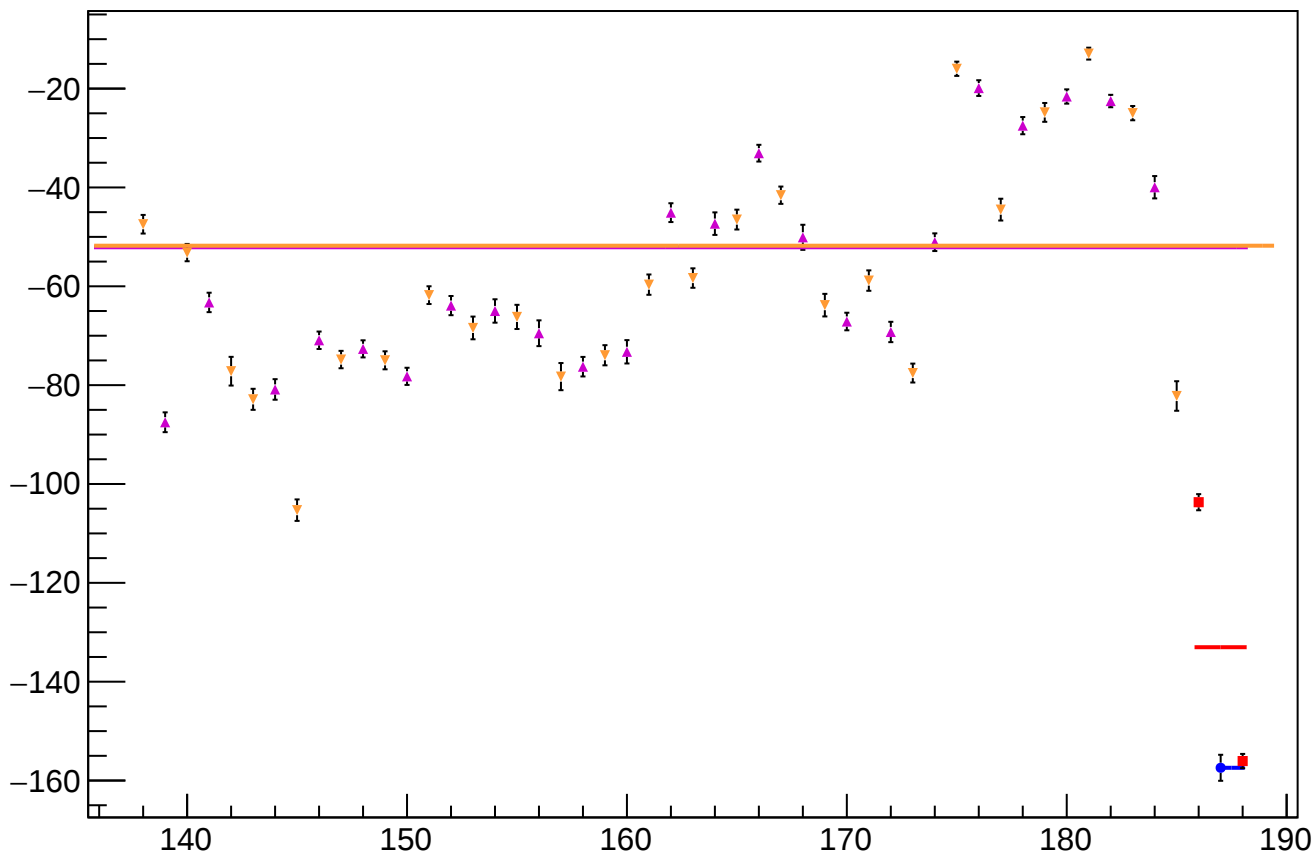
Right: -40.434 ± 0.021 $\chi^2/\text{NDF}: 125260.9/36$

In: -39.781 ± 0.014 $\chi^2/\text{NDF}: 170649.3/39$

Out: -40.327 ± 0.014 $\chi^2/\text{NDF}: 284867.1/44$

All: -40.056 ± 0.010 $\chi^2/\text{NDF}: 456284.4/84$

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -157.422 ± 2.632 χ^2/NDF : 0.0/0

Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24

Right Out: -133.024 ± 1.082 χ^2/NDF : 577.3/1

Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47

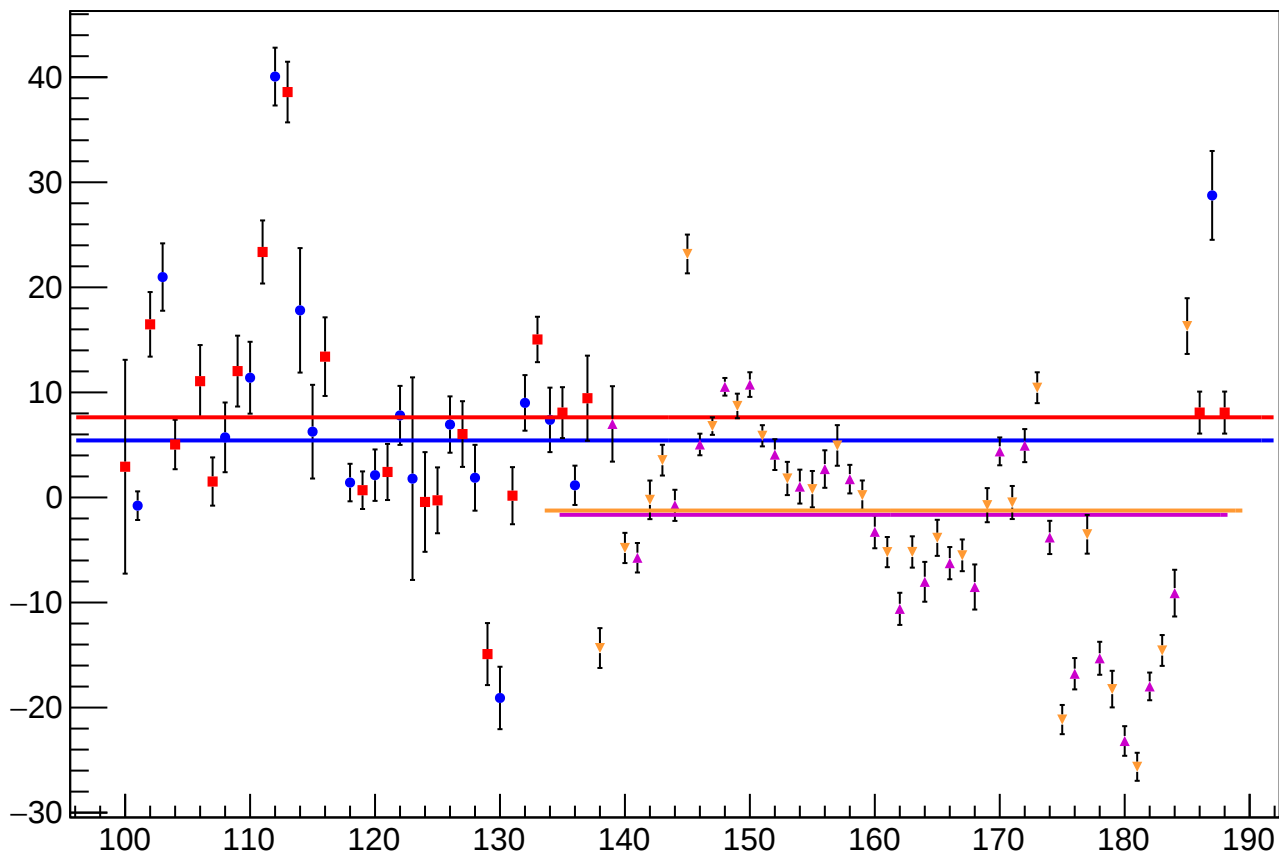
Right: -136.552 ± 1.001 χ^2/NDF : 650.8/2

In: -54.352 ± 0.384 χ^2/NDF : 4847.6/23

Out: -60.816 ± 0.361 χ^2/NDF : 9752.5/26

All: -57.790 ± 0.263 χ^2/NDF : 14750.4/50

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.427 ± 0.622 $\chi^2/\text{NDF}: 325.4/17$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 7.628 ± 0.592 $\chi^2/\text{NDF}: 270.7/20$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

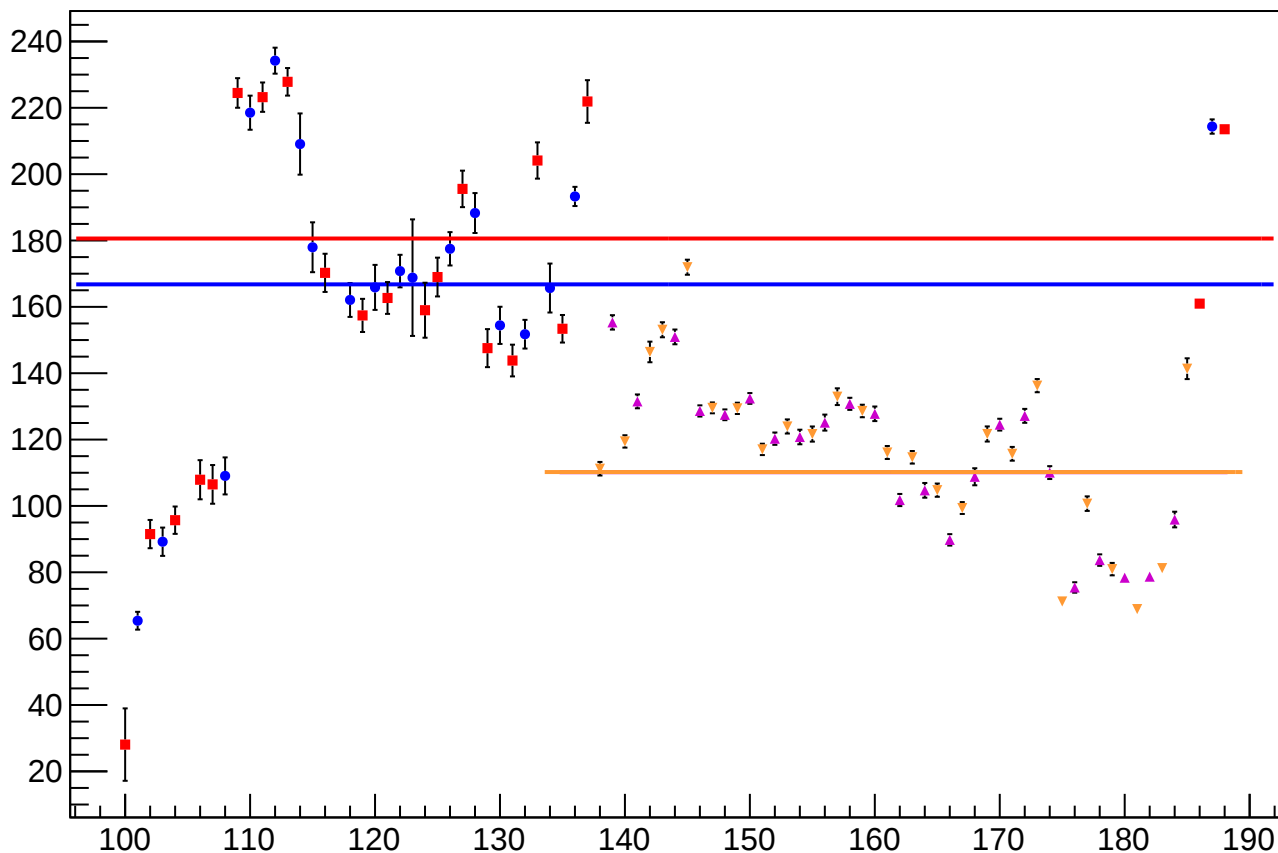
Right: 6.583 ± 0.429 $\chi^2/\text{NDF}: 602.7/38$

In: -0.313 ± 0.270 $\chi^2/\text{NDF}: 1522.7/40$

Out: 0.491 ± 0.262 $\chi^2/\text{NDF}: 1774.3/45$

All: 0.102 ± 0.188 $\chi^2/\text{NDF}: 3301.6/86$

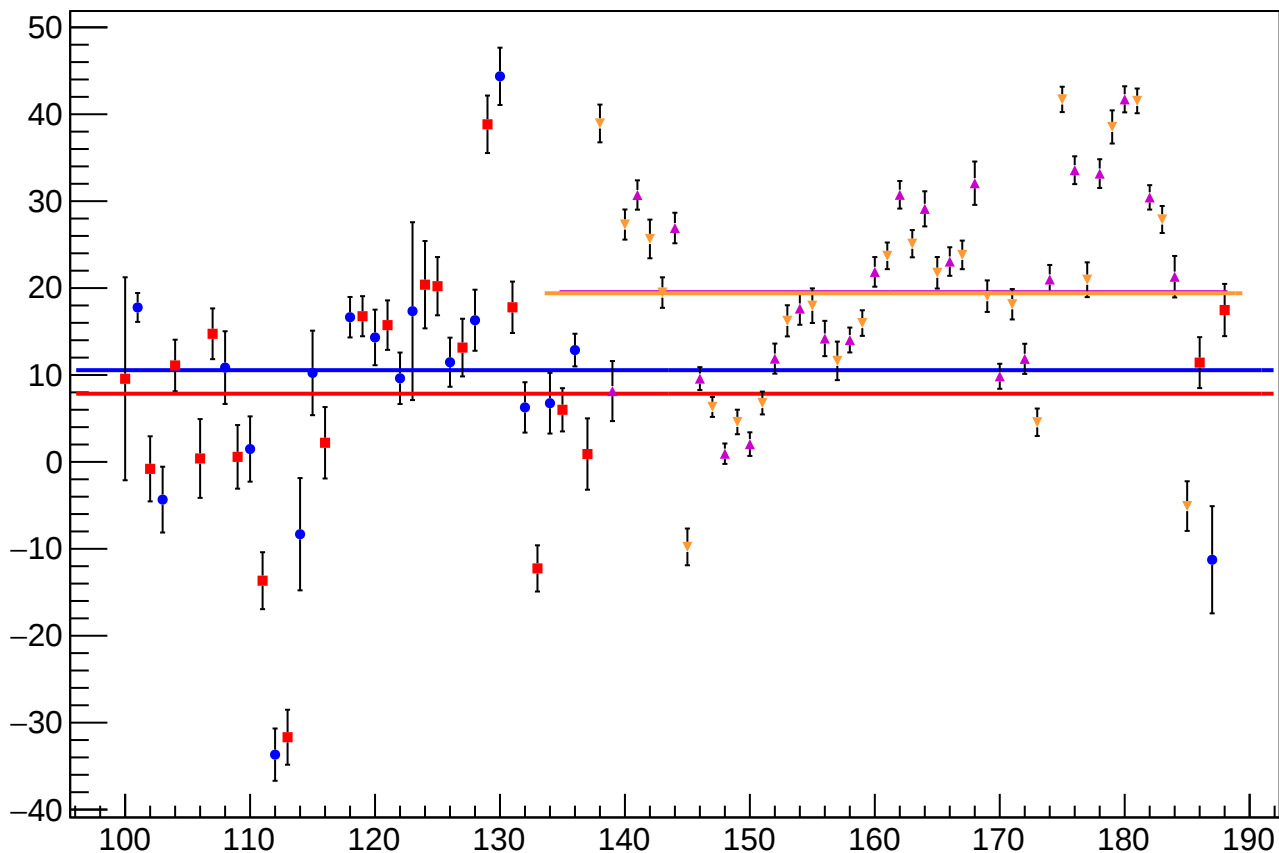
reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 166.784 $\pm$ 1.017 χ^2 /NDF: 2888.4/17
 Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24
 Right Out: 180.602 $\pm$ 0.698 χ^2 /NDF: 2971.8/20
 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: 176.170 $\pm$ 0.576 χ^2 /NDF: 5985.8/38
 In: 117.305 $\pm$ 0.361 χ^2 /NDF:9301.8/40
 Out: 126.422 $\pm$ 0.335 χ^2 /NDF:15382.6/45
 All: 122.199 $\pm$ 0.246 χ^2 /NDF: 25027.1/86

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.555+/-0.716 χ^2/NDF : 399.0/17

Left Out: 19.405+/-0.335 χ^2/NDF :1453.4/24

Right Out: 7.847+/-0.705 χ^2/NDF : 436.3/20

Left In: 19.530+/-0.342 χ^2/NDF :1181.3/22

Left: 19.466+/-0.239 χ^2/NDF : 2634.8/47

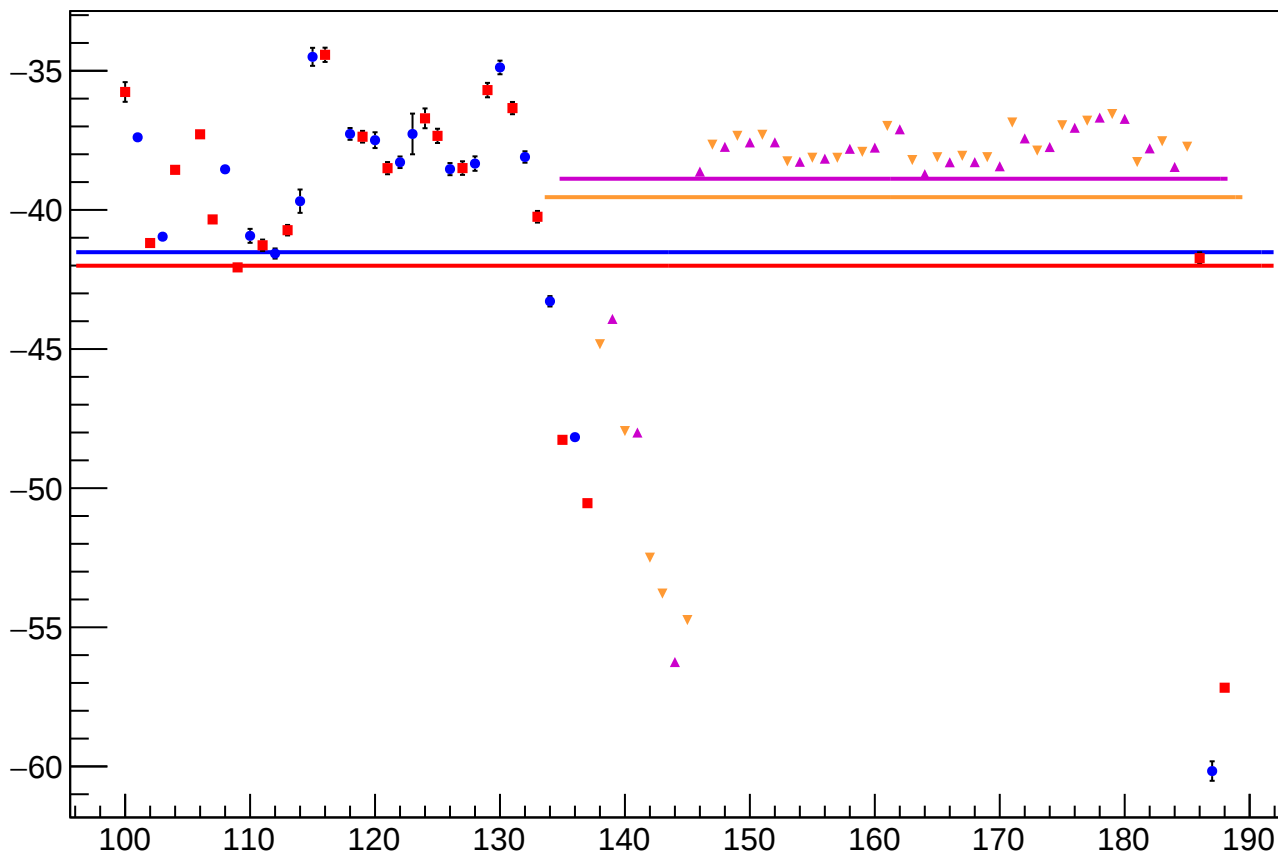
Right: 9.181+/-0.502 χ^2/NDF : 842.6/38

In: 17.858+/-0.309 χ^2/NDF :1708.3/40

Out: 17.280+/-0.302 χ^2/NDF :2109.0/45

All: 17.563+/-0.216 χ^2/NDF : 3819.0/86

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.519 ± 0.038 $\chi^2/\text{NDF}: 15372.1/17$

Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$

Right Out: -42.006 ± 0.037 $\chi^2/\text{NDF}: 21664.9/20$

Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$

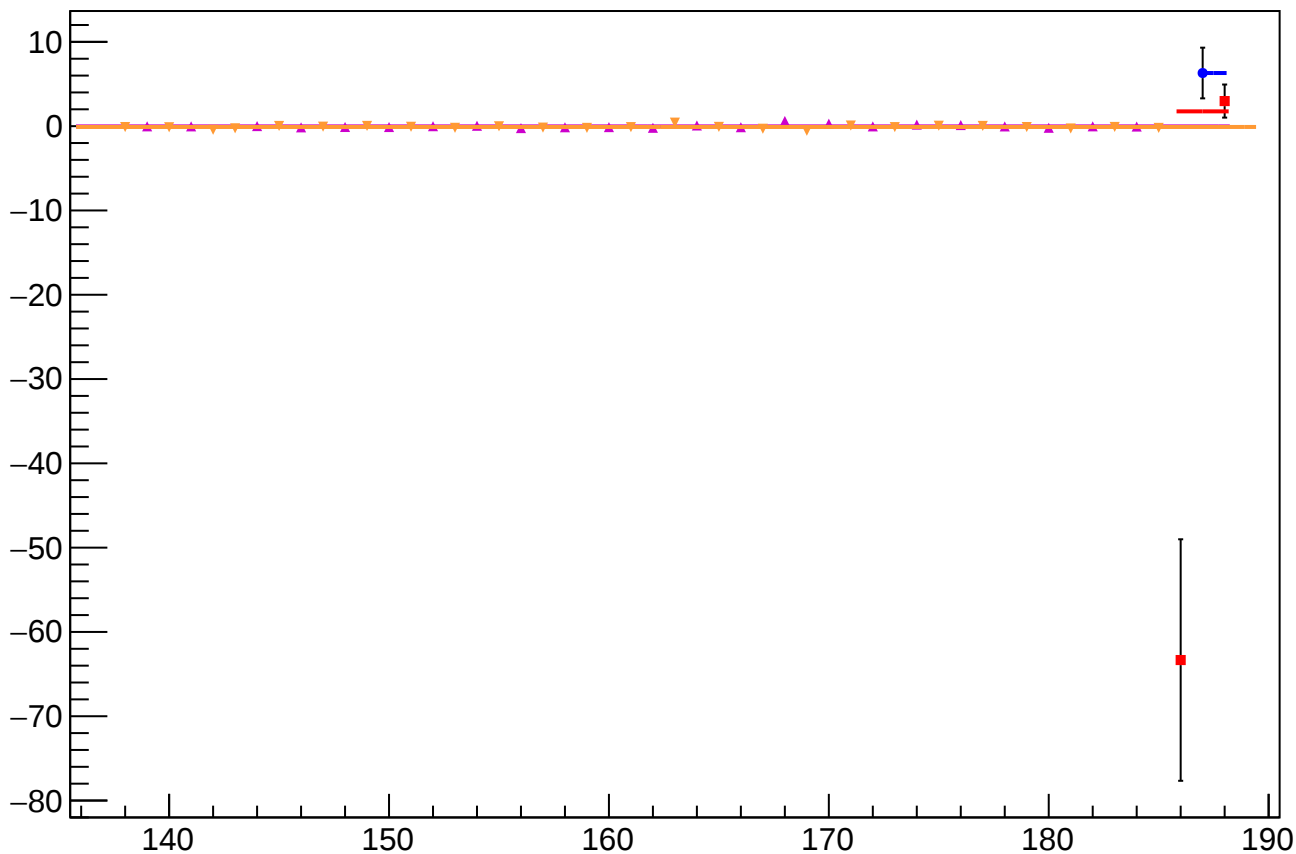
Right: -41.771 ± 0.027 $\chi^2/\text{NDF}: 37120.1/38$

In: -39.264 ± 0.015 $\chi^2/\text{NDF}: 72816.7/40$

Out: -39.919 ± 0.014 $\chi^2/\text{NDF}: 117440.1/45$

All: -39.596 ± 0.010 $\chi^2/\text{NDF}: 191264.6/86$

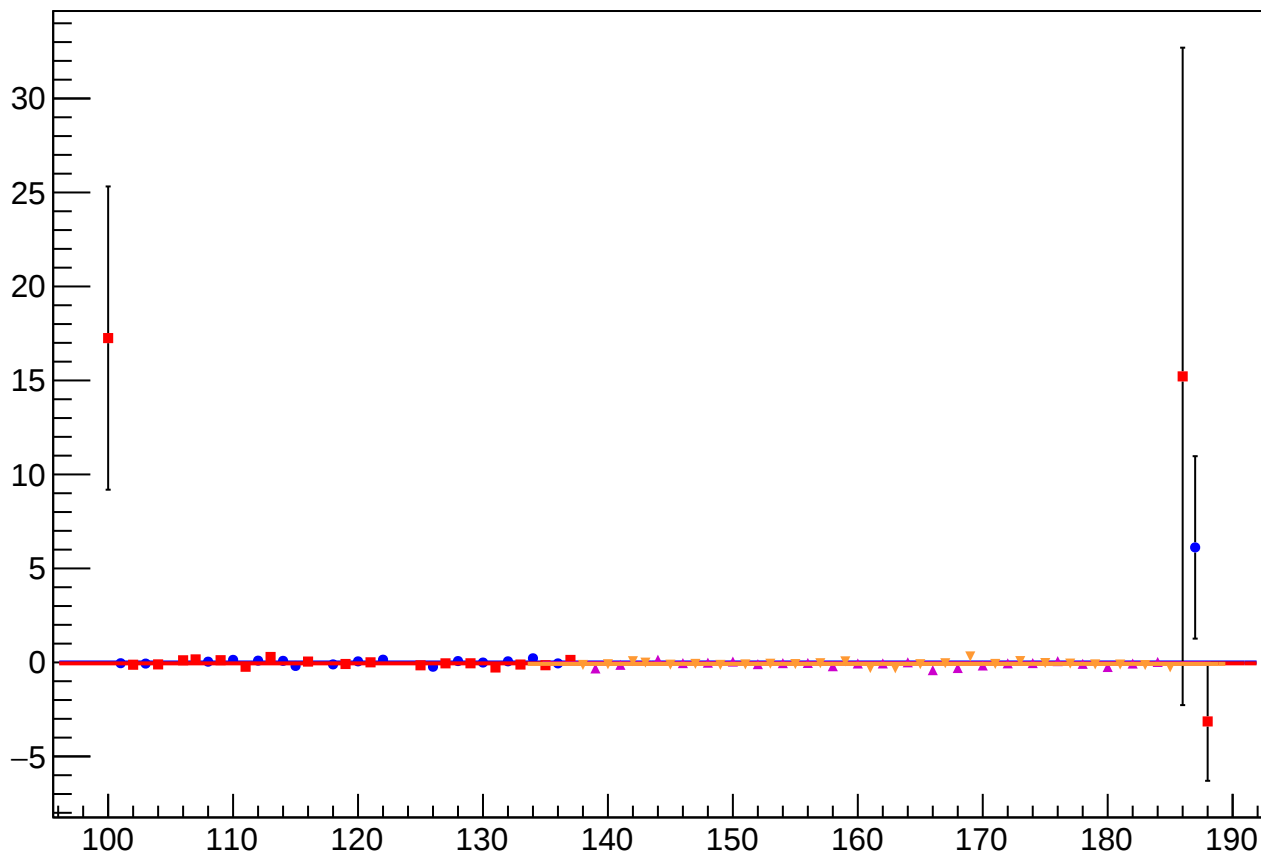
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.304+/-3.007 χ^2/NDF : 0.0/0
 Left Out: -0.095+/-0.022 χ^2/NDF : 41.8/24
 Right Out: 1.755+/-1.945 χ^2/NDF : 21.0/1
 Left In: -0.026+/-0.022 χ^2/NDF : 33.3/22

Left: -0.061+/-0.016 χ^2/NDF : 80.1/47
 Right: 3.096+/-1.633 χ^2/NDF : 22.6/2
 In: -0.025+/-0.022 χ^2/NDF : 37.7/23
 Out: -0.095+/-0.022 χ^2/NDF : 63.8/26
 All: -0.061+/-0.016 χ^2/NDF : 106.5/50

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 14.3/16

Left Out: -0.078 ± 0.017 χ^2/NDF : 26.6/24

Right Out: -0.050 ± 0.029 χ^2/NDF : 27.2/19

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.065 ± 0.012 χ^2/NDF : 59.4/47

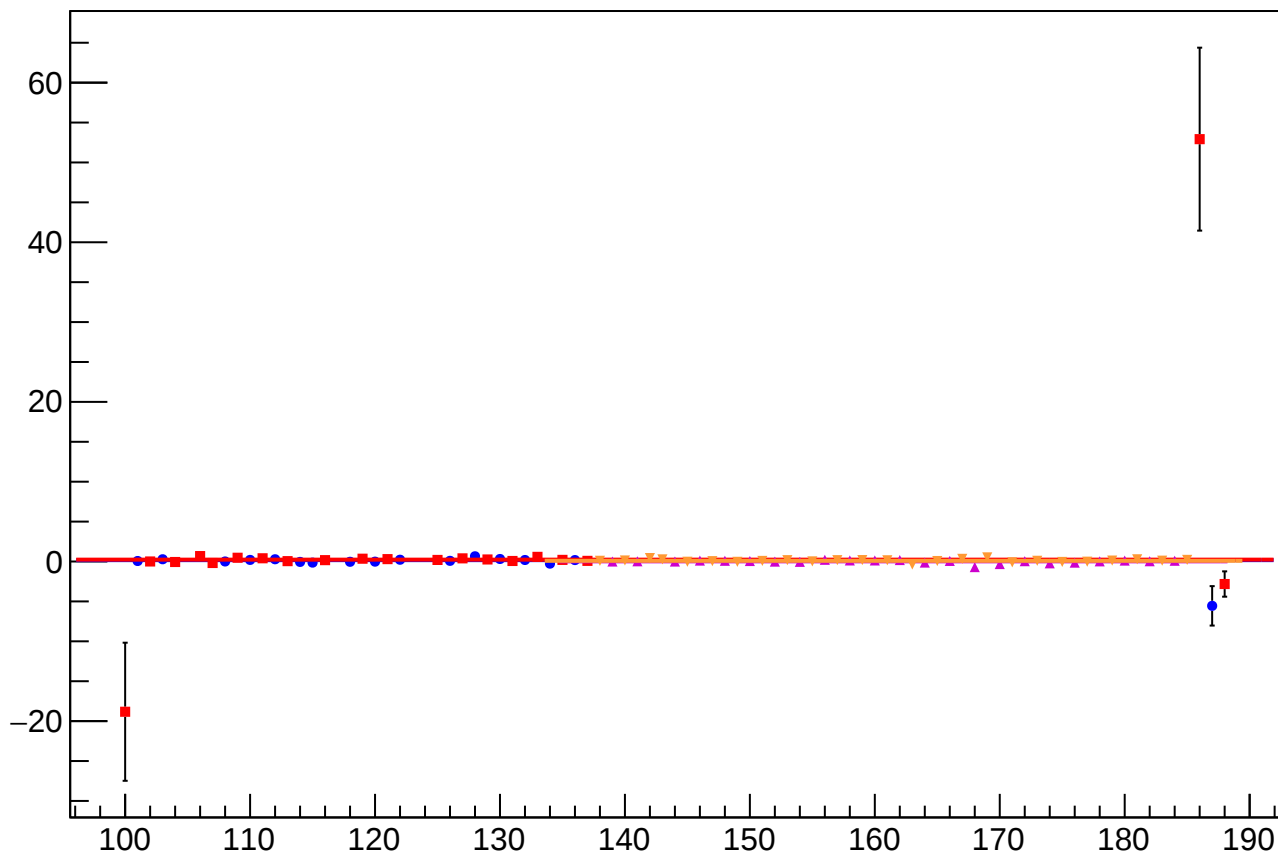
Right: -0.025 ± 0.020 χ^2/NDF : 42.9/36

In: -0.038 ± 0.015 χ^2/NDF : 48.2/39

Out: -0.071 ± 0.015 χ^2/NDF : 54.5/44

All: -0.055 ± 0.010 χ^2/NDF : 105.1/84

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 17.8/16

Left Out: 0.088 $\pm$ 0.022 χ^2 /NDF:40.7/24

Right Out: 0.233 $\pm$ 0.054 χ^2 /NDF: 46.4/19

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

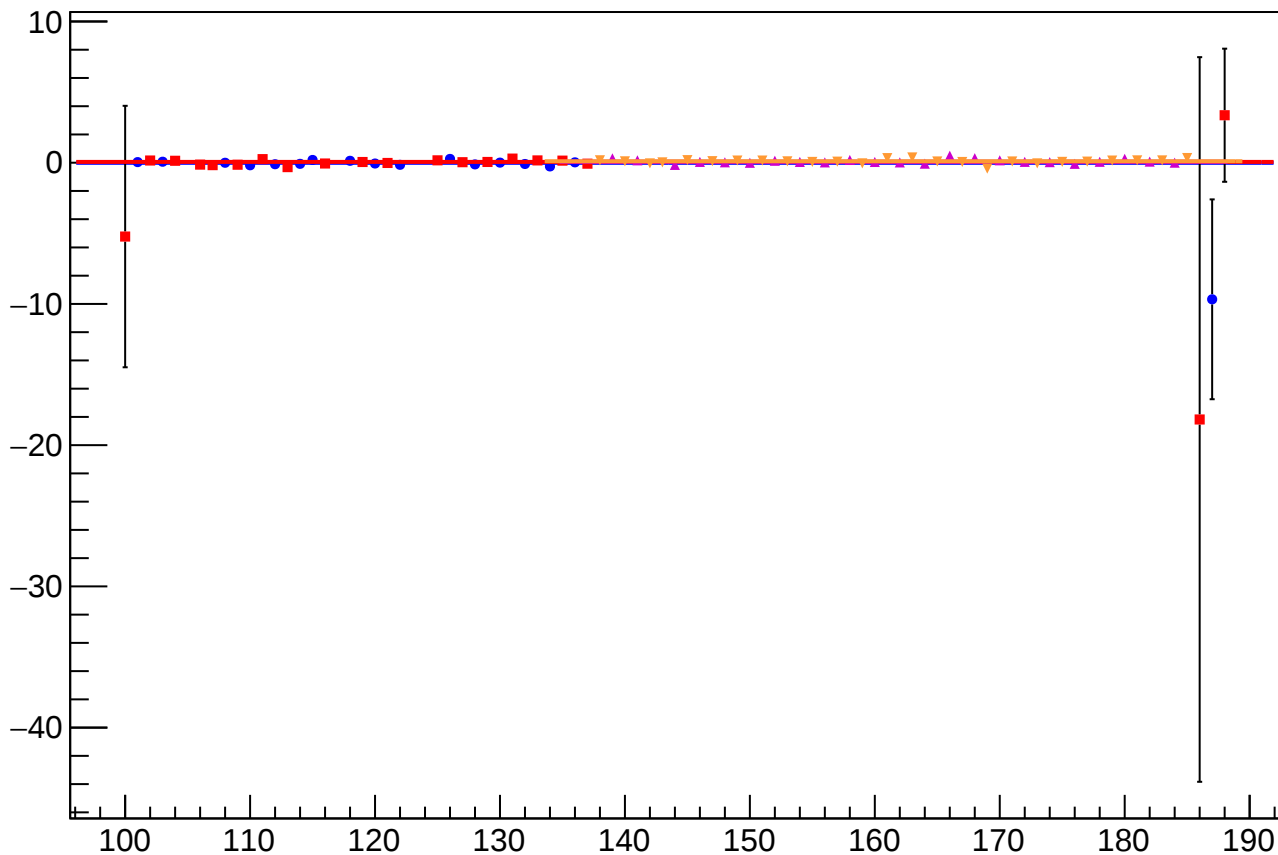
Right: 0.202 $\pm$ 0.038 χ^2 /NDF: 64.8/36

In: 0.043 $\pm$ 0.020 χ^2 /NDF:60.4/39

Out: 0.108 $\pm$ 0.020 χ^2 /NDF:93.4/44

All: 0.076 $\pm$ 0.014 χ^2 /NDF: 158.9/84

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 15.9/16

Left Out: 0.102 ± 0.019 χ^2/NDF : 30.2/24

Right Out: 0.057 ± 0.034 χ^2/NDF : 21.3/19

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.086 ± 0.014 χ^2/NDF : 63.0/47

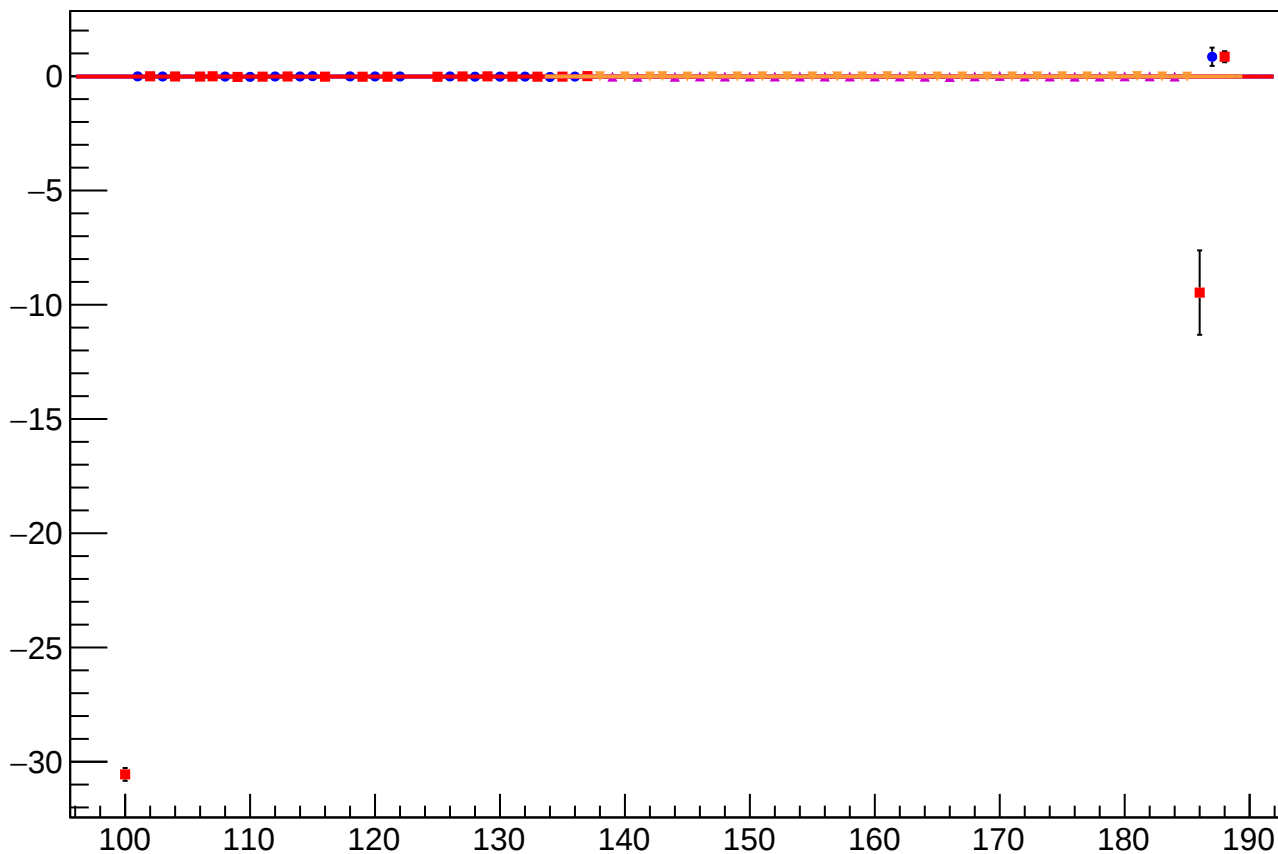
Right: 0.024 ± 0.024 χ^2/NDF : 39.1/36

In: 0.049 ± 0.017 χ^2/NDF : 51.1/39

Out: 0.091 ± 0.017 χ^2/NDF : 52.9/44

All: 0.070 ± 0.012 χ^2/NDF : 107.1/84

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 $\pm$ 0.002 χ^2 /NDF: 17.5/16

Left Out: -0.008 $\pm$ 0.001 χ^2 /NDF:34.7/24

Right Out: -0.012 $\pm$ 0.002 χ^2 /NDF: 11929.9/19

Left In: -0.009 $\pm$ 0.001 χ^2 /NDF:40.8/22

Left: -0.008 $\pm$ 0.001 χ^2 /NDF: 76.4/47

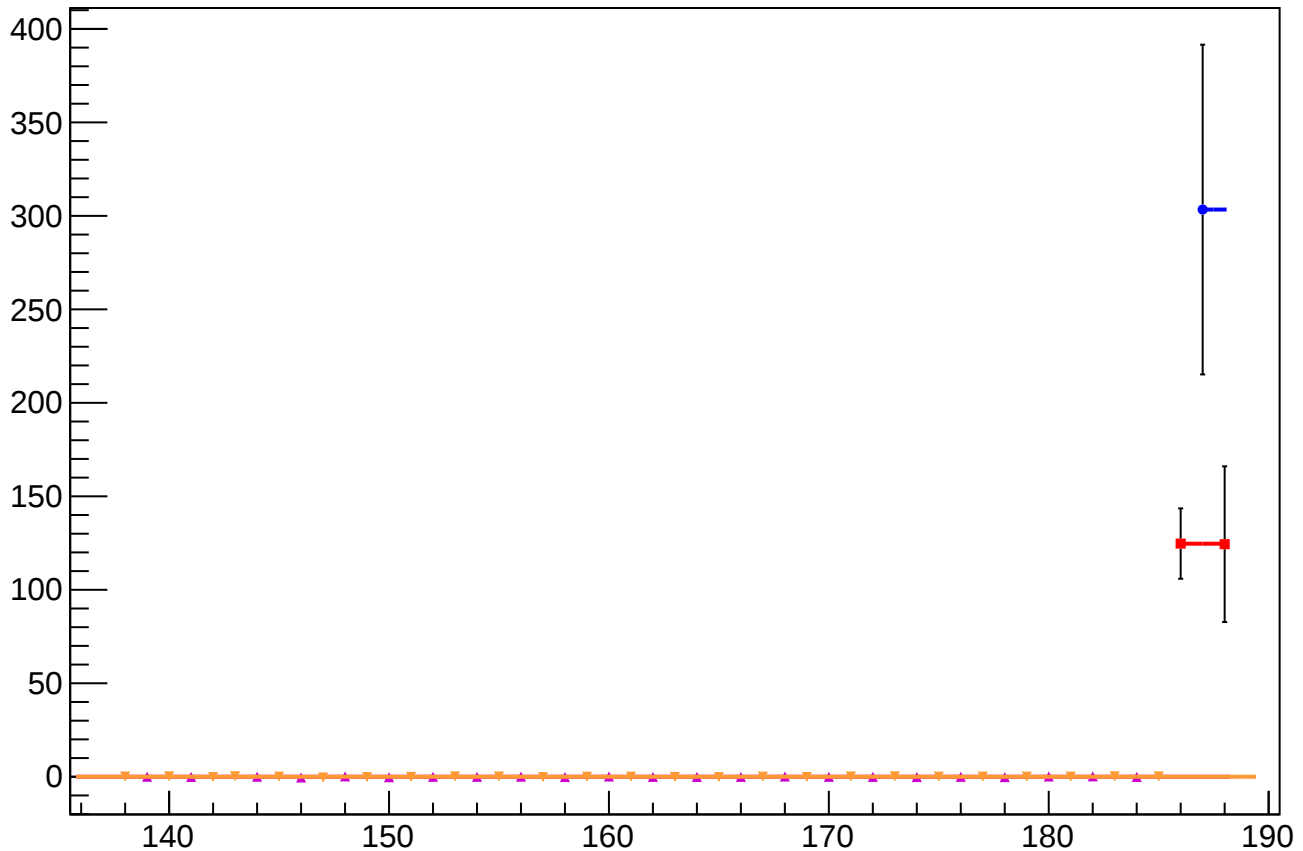
Right: -0.012 $\pm$ 0.001 χ^2 /NDF: 11947.3/36

In: -0.009 $\pm$ 0.001 χ^2 /NDF:60.7/39

Out: -0.008 $\pm$ 0.001 χ^2 /NDF:11969.4/44

All: -0.009 $\pm$ 0.001 χ^2 /NDF: 12030.7/84

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 303.382 $\pm$ 88.188 χ^2 /NDF: 0.0/0

Left Out: 0.017 $\pm$ 0.027 χ^2 /NDF:30.9/24

Right Out: 124.653 $\pm$ 17.150 χ^2 /NDF: 0.0/1

Left In: 0.002 $\pm$ 0.028 χ^2 /NDF:29.0/22

Left: 0.010 $\pm$ 0.019 χ^2 /NDF: 60.1/47

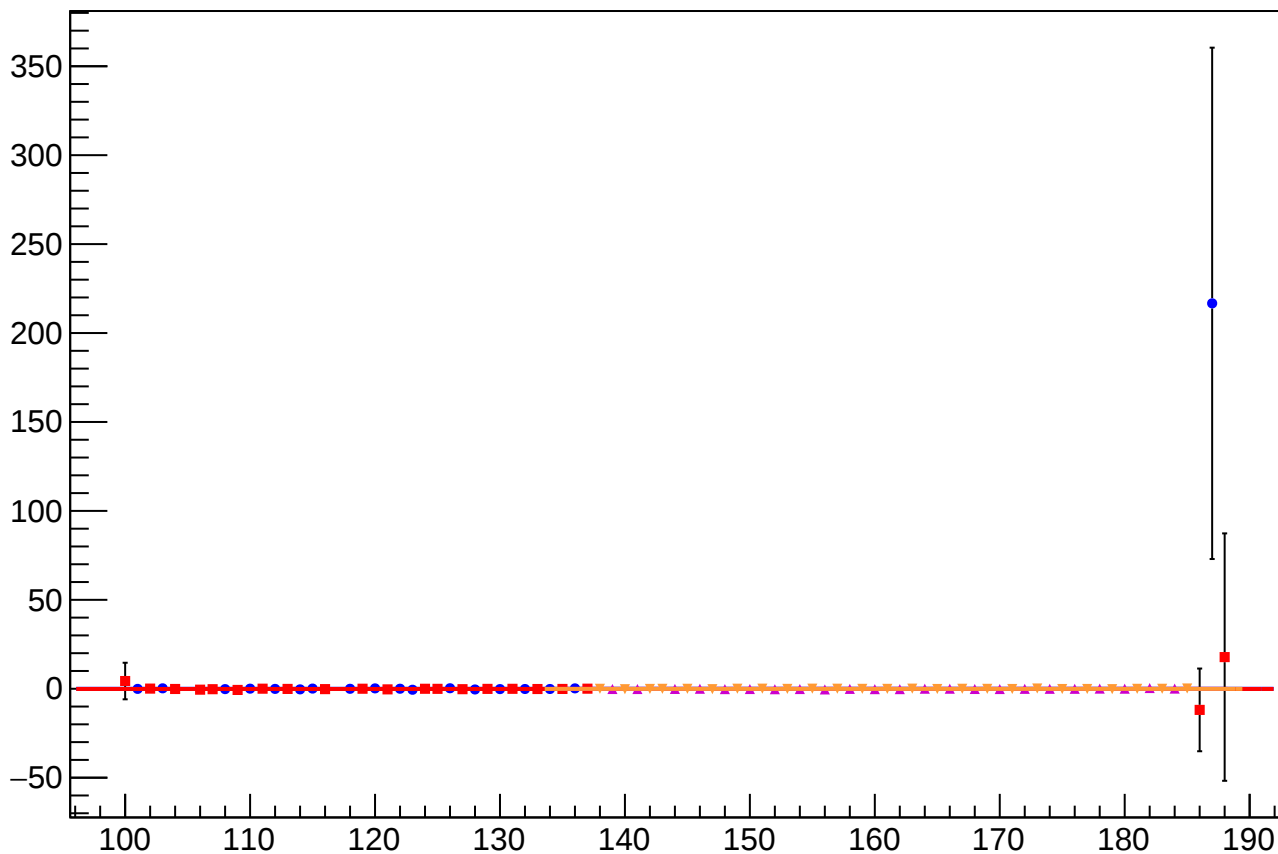
Right: 131.166 $\pm$ 16.835 χ^2 /NDF: 4.0/2

In: 0.002 $\pm$ 0.028 χ^2 /NDF:40.8/23

Out: 0.018 $\pm$ 0.027 χ^2 /NDF:83.8/26

All: 0.010 $\pm$ 0.019 χ^2 /NDF: 124.8/50

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 25.2/17$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 18.8/20$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

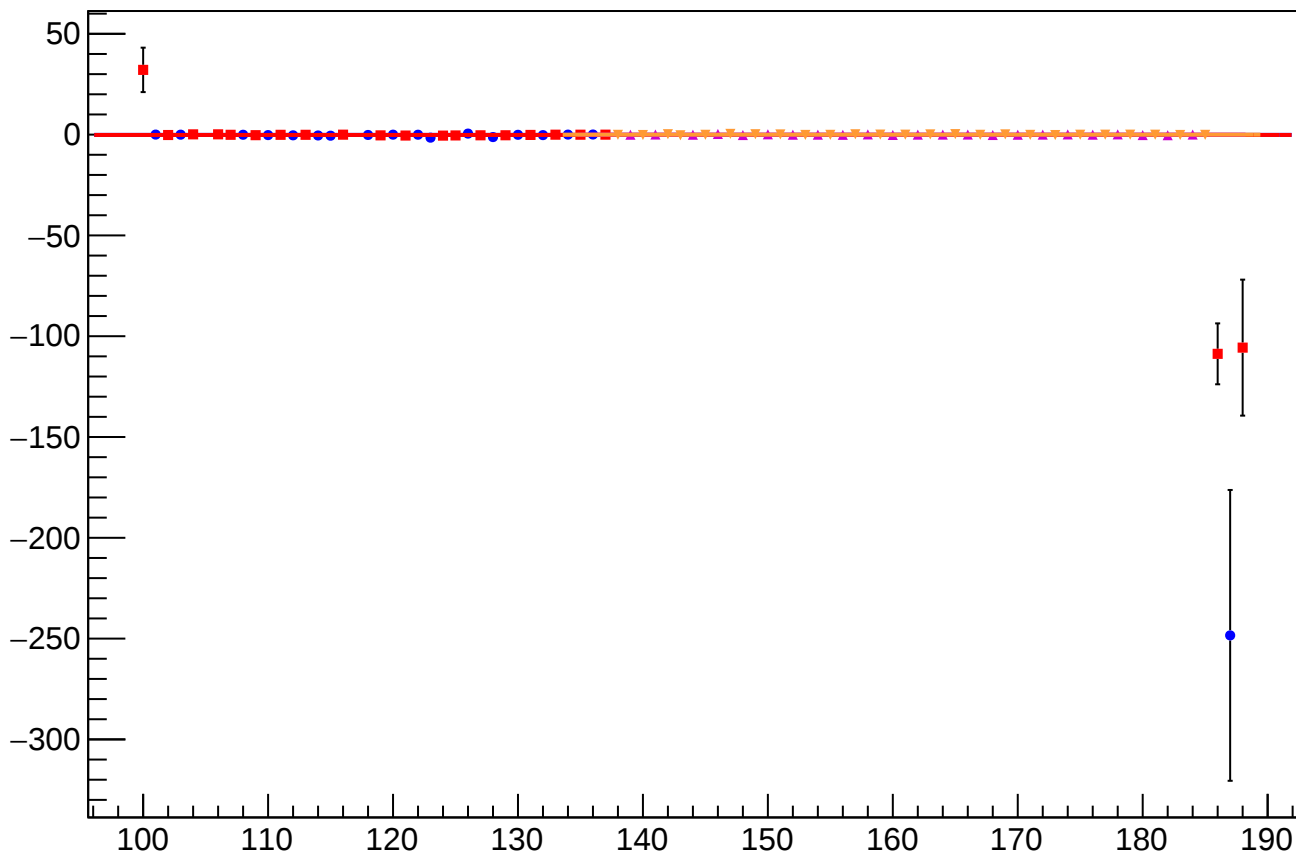
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 47.3/38$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 75.5/40$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 45.3/45$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 121.1/86$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 χ^2/NDF : 36.6/17

Left Out: -0.018 ± 0.027 χ^2/NDF : 29.0/24

Right Out: -0.167 ± 0.071 χ^2/NDF : 75.8/20

Left In: -0.033 ± 0.027 χ^2/NDF : 28.5/22

Left: -0.025 ± 0.019 χ^2/NDF : 57.6/47

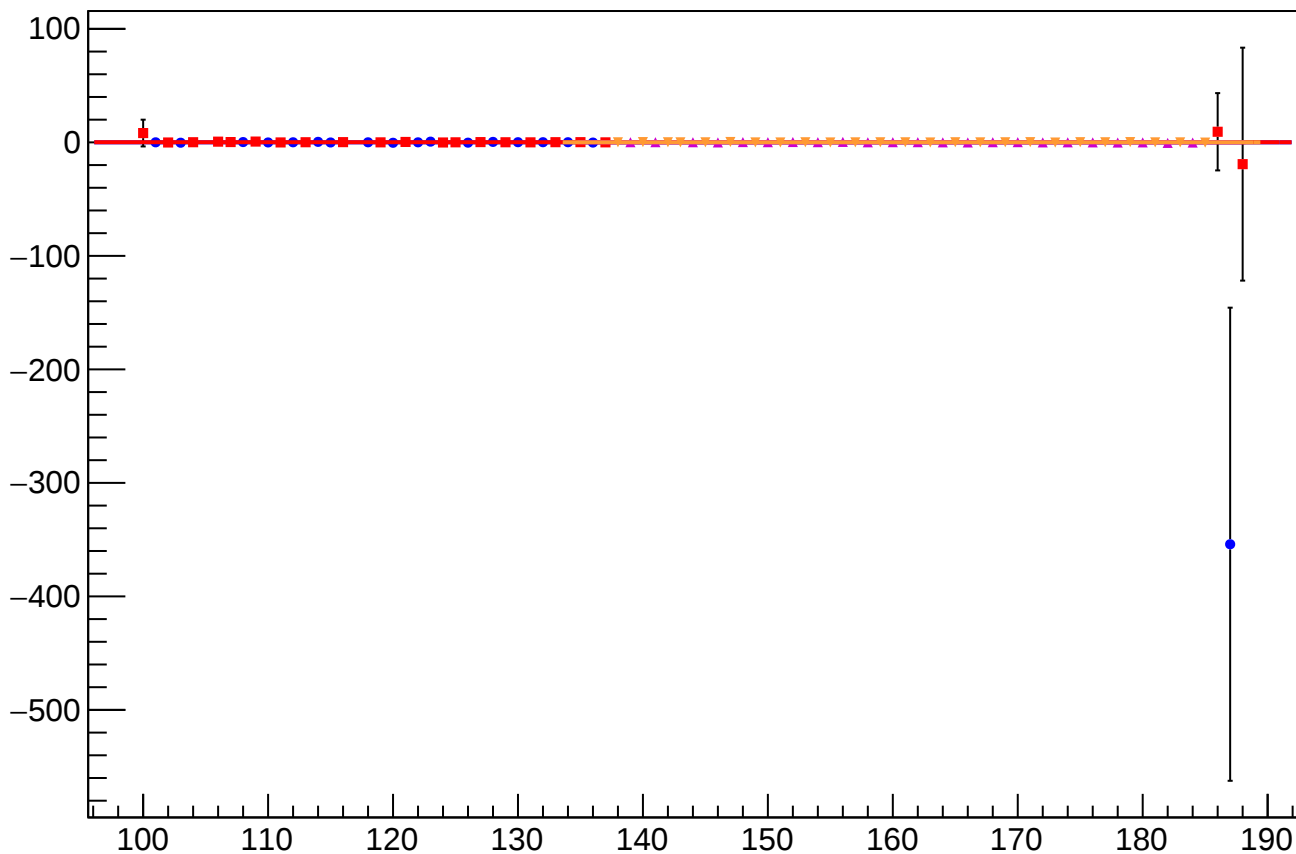
Right: -0.150 ± 0.049 χ^2/NDF : 112.5/38

In: -0.047 ± 0.025 χ^2/NDF : 67.0/40

Out: -0.037 ± 0.025 χ^2/NDF : 108.7/45

All: -0.042 ± 0.018 χ^2/NDF : 175.8/86

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.019 $\pm$ 0.043 χ^2 /NDF: 24.5/17

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 16.9/20

Left In: 0.069 $\pm$ 0.025 χ^2 /NDF:51.8/22

Left: 0.066 $\pm$ 0.017 χ^2 /NDF: 76.5/47

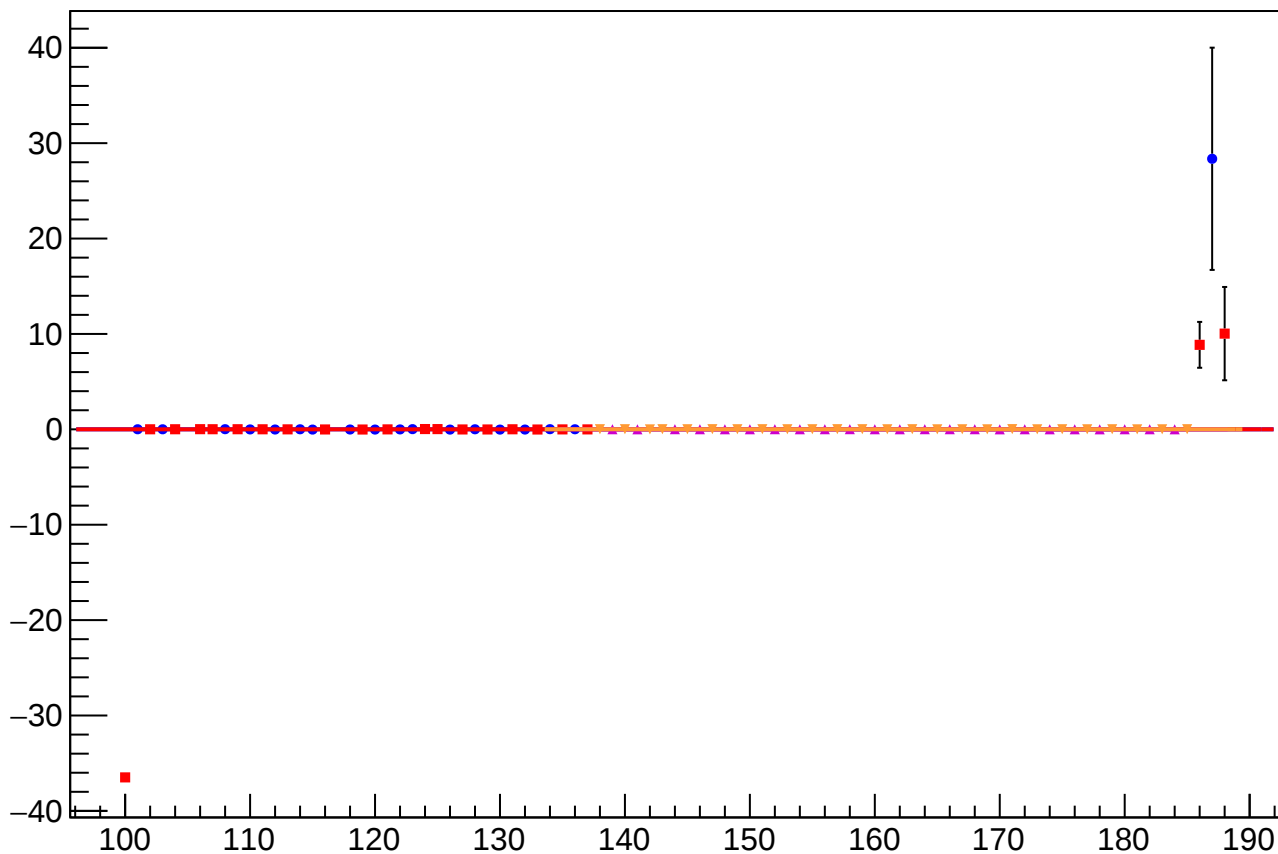
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 45.5/38

In: 0.056 $\pm$ 0.021 χ^2 /NDF:77.4/40

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:44.0/45

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 122.1/86

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 36.4/17

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10466.9/20

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

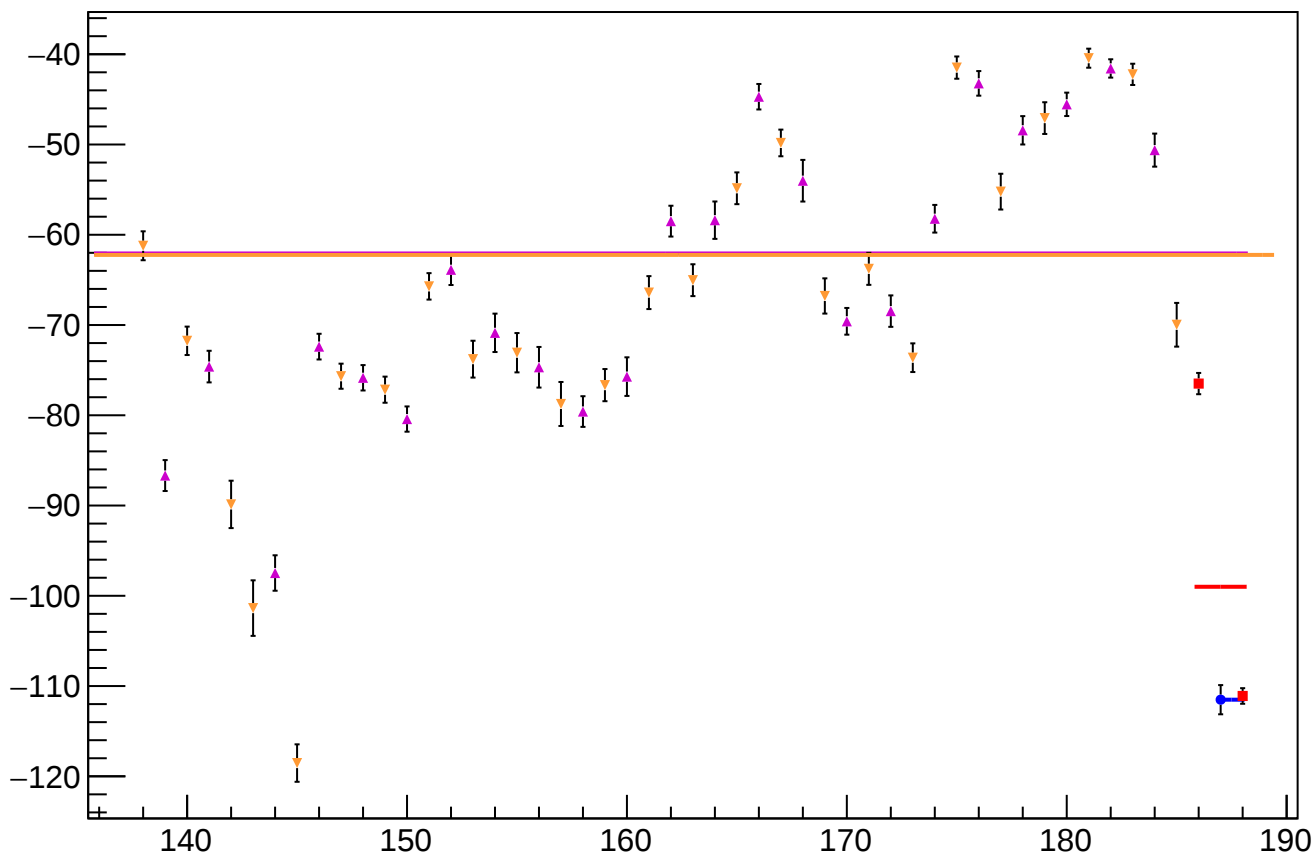
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10503.4/38

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 60.9/40

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10502.2/45

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10563.2/86

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -111.512 $\pm$ 1.617 χ^2 /NDF: 0.0/0

Left Out: -62.232 $\pm$ 0.332 χ^2 /NDF: 2668.5/24

Right Out: -99.001 $\pm$ 0.697 χ^2 /NDF: 561.0/1

Left In: -62.073 $\pm$ 0.332 χ^2 /NDF: 2192.0/22

Left: -62.153 $\pm$ 0.235 χ^2 /NDF: 4860.6/47

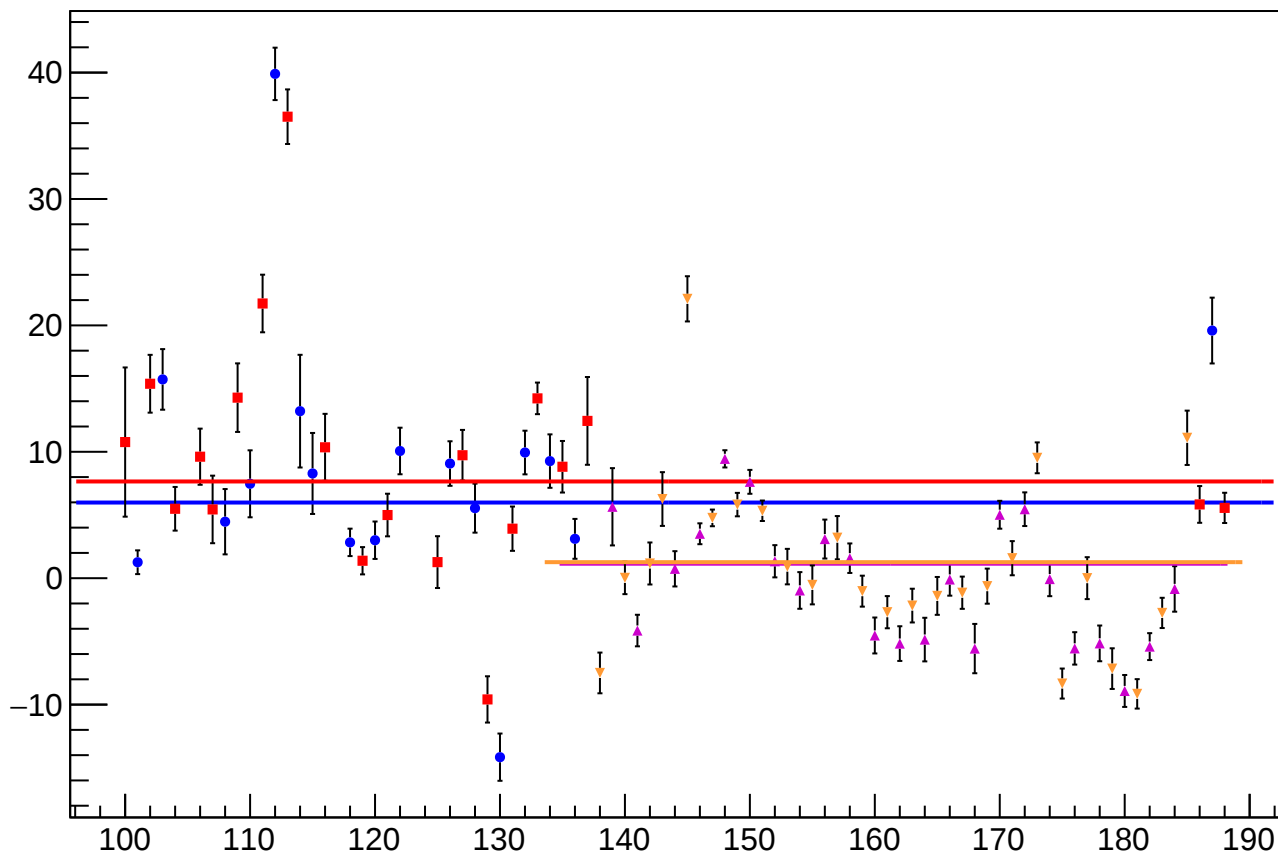
Right: -100.959 $\pm$ 0.640 χ^2 /NDF: 611.4/2

In: -64.075 $\pm$ 0.326 χ^2 /NDF: 3088.4/23

Out: -69.032 $\pm$ 0.300 χ^2 /NDF: 5499.0/26

All: -66.759 $\pm$ 0.220 χ^2 /NDF: 8712.8/50

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.986 $\pm$ 0.424 χ^2/NDF : 488.1/16

Left Out: 1.269 $\pm$ 0.251 χ^2/NDF :531.9/24

Right Out: 7.652 $\pm$ 0.407 χ^2/NDF : 413.4/19

Left In: 1.146 $\pm$ 0.255 χ^2/NDF :462.9/22

Left: 1.208 $\pm$ 0.179 χ^2/NDF : 995.0/47

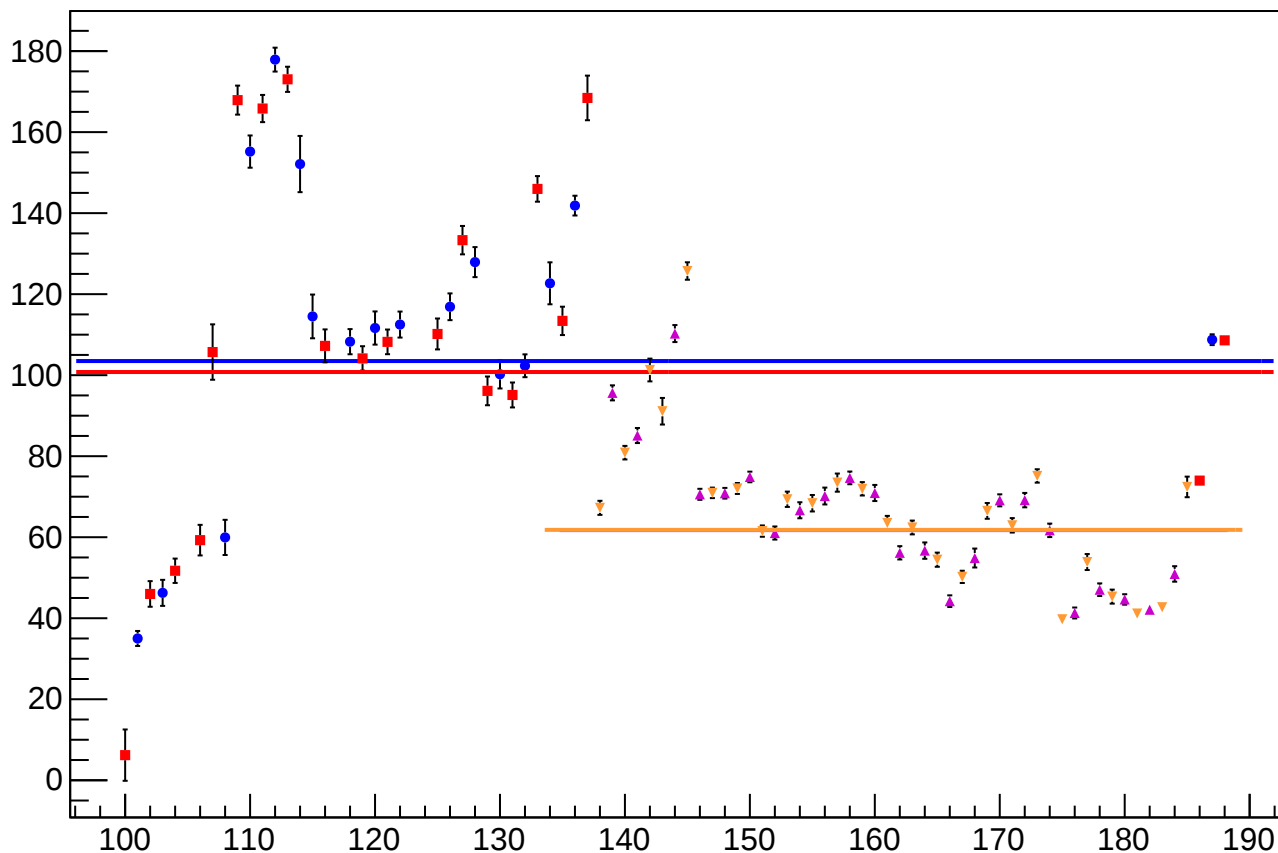
Right: 6.853 $\pm$ 0.294 χ^2/NDF : 909.5/36

In: 2.434 $\pm$ 0.219 χ^2/NDF :1046.6/39

Out: 3.026 $\pm$ 0.213 χ^2/NDF :1123.7/44

All: 2.737 $\pm$ 0.153 χ^2/NDF : 2174.1/84

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 103.488 $\pm$ 0.694 χ^2 /NDF: 2994.8/16

Left Out: 61.812 $\pm$ 0.331 χ^2 /NDF:2686.4/24

Right Out: 100.781 $\pm$ 0.465 χ^2 /NDF: 3592.1/19

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

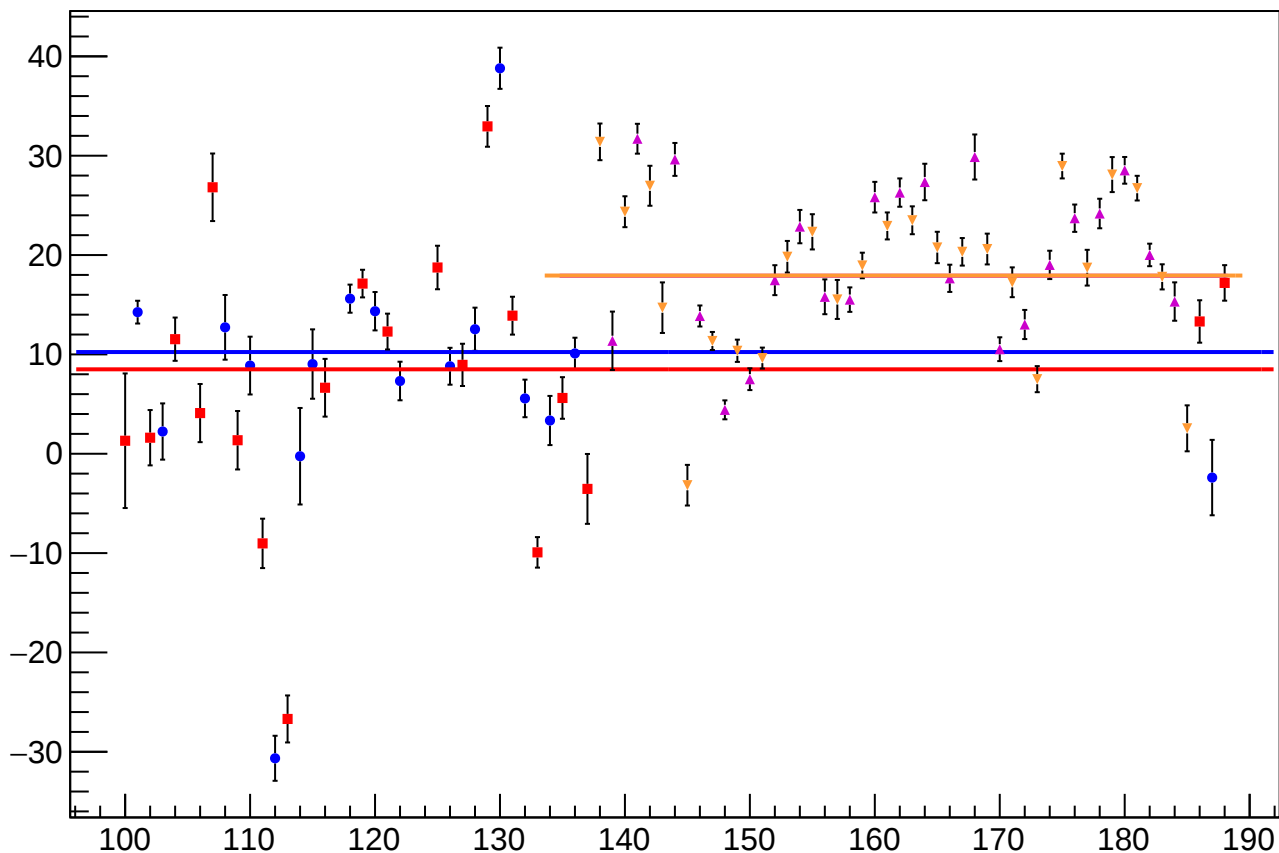
Right: 101.620 $\pm$ 0.386 χ^2 /NDF: 6597.4/36

In: 69.460 $\pm$ 0.298 χ^2 /NDF:8363.3/39

Out: 74.905 $\pm$ 0.269 χ^2 /NDF:10945.6/44

All: 72.456 $\pm$ 0.200 χ^2 /NDF: 19492.5/84

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.237 ± 0.494 $\chi^2/\text{NDF}: 589.2/16$

Left Out: 17.937 ± 0.289 $\chi^2/\text{NDF}: 676.0/24$

Right Out: 8.498 ± 0.490 $\chi^2/\text{NDF}: 719.2/19$

Left In: 17.916 ± 0.292 $\chi^2/\text{NDF}: 726.5/22$

Left: 17.927 ± 0.206 $\chi^2/\text{NDF}: 1402.5/47$

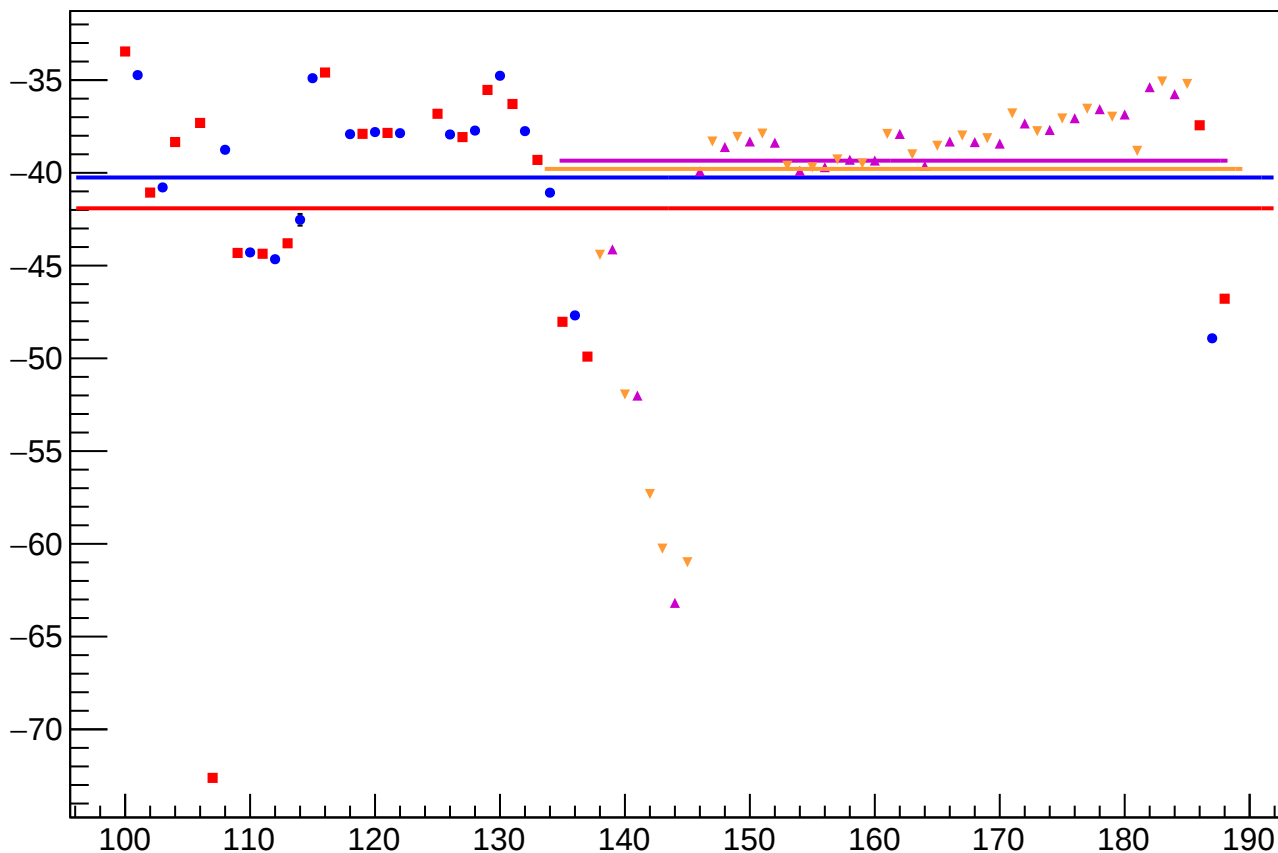
Right: 9.360 ± 0.348 $\chi^2/\text{NDF}: 1314.6/36$

In: 15.925 ± 0.252 $\chi^2/\text{NDF}: 1494.6/39$

Out: 15.498 ± 0.249 $\chi^2/\text{NDF}: 1670.9/44$

All: 15.709 ± 0.177 $\chi^2/\text{NDF}: 3167.0/84$

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.251 ± 0.028 $\chi^2/\text{NDF}: 26718.5/16$

Left Out: -39.788 ± 0.014 $\chi^2/\text{NDF}: 165493.8/24$

Right Out: -41.912 ± 0.027 $\chi^2/\text{NDF}: 65466.5/19$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.565 ± 0.010 $\chi^2/\text{NDF}: 282639.2/47$

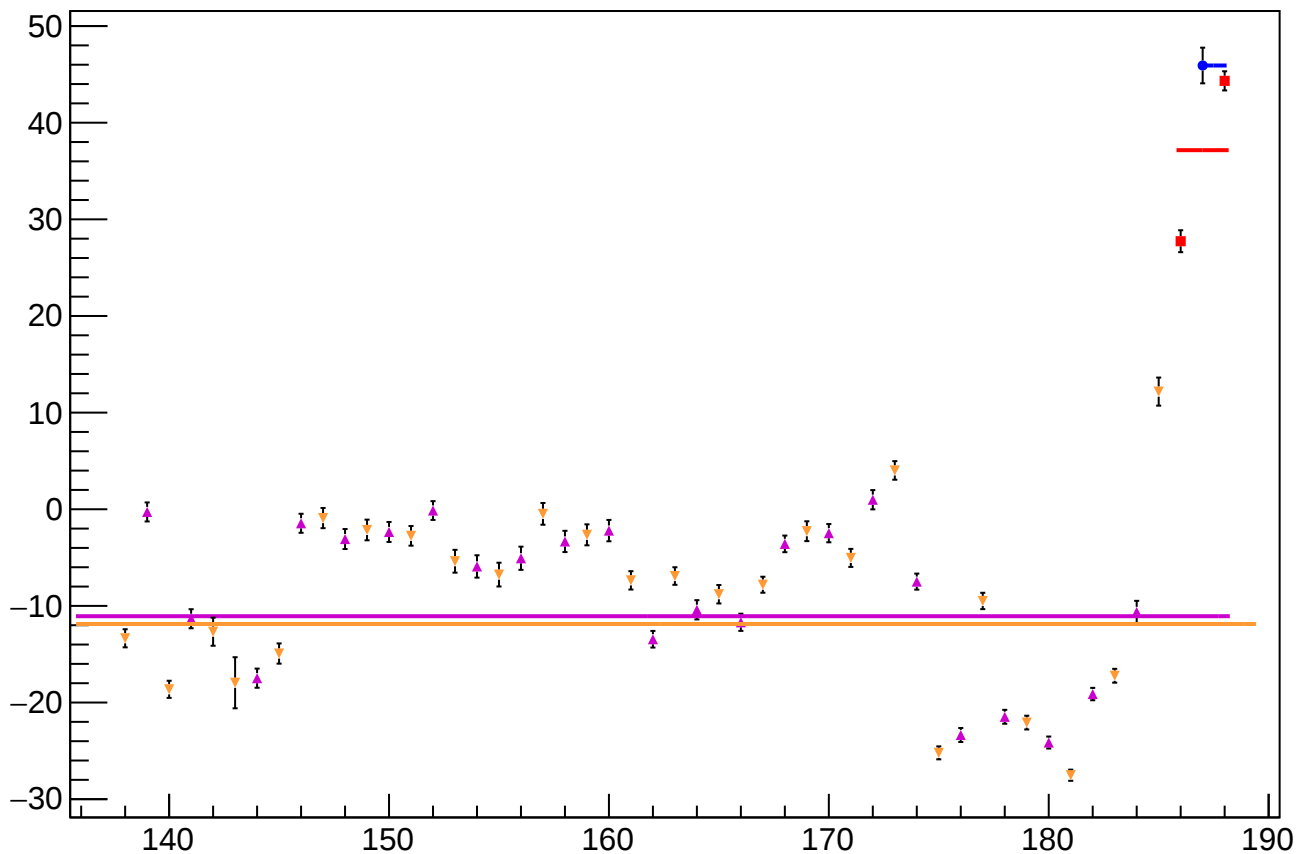
Right: -41.118 ± 0.019 $\chi^2/\text{NDF}: 94008.8/36$

In: -39.516 ± 0.012 $\chi^2/\text{NDF}: 144177.8/39$

Out: -40.223 ± 0.012 $\chi^2/\text{NDF}: 235918.0/44$

All: -39.871 ± 0.009 $\chi^2/\text{NDF}: 381772.8/84$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



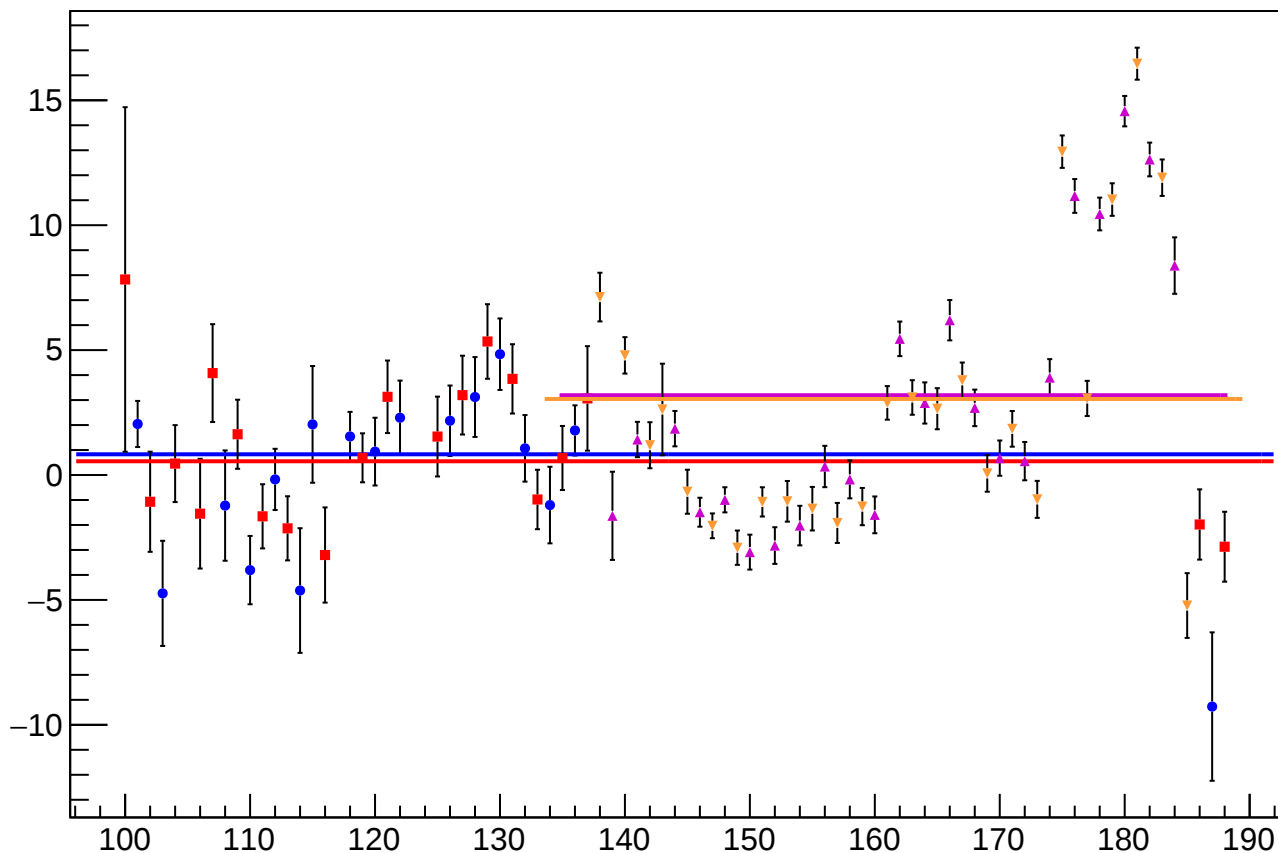
Right In: 45.919+/-1.845 χ^2 /NDF: 0.0/0
 Left Out: -11.873+/-0.186 χ^2 /NDF: 2745.2/24
 Right Out: 37.158+/-0.746 χ^2 /NDF: 121.4/1
 Left In: -11.067+/-0.188 χ^2 /NDF: 2104.8/22

Left: -11.473+/-0.132 χ^2 /NDF: 4859.2/47
 Right: 38.389+/-0.692 χ^2 /NDF: 140.8/2

In: -10.481+/-0.187 χ^2 /NDF: 3049.0/23
 Out: -8.993+/-0.181 χ^2 /NDF: 6932.4/26

All: -9.712+/-0.130 χ^2 /NDF: 10014.2/50

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.830 ± 0.340 $\chi^2/\text{NDF}: 53.3/16$

Left Out: 3.044 ± 0.147 $\chi^2/\text{NDF}: 1457.3/24$

Right Out: 0.550 ± 0.333 $\chi^2/\text{NDF}: 52.4/19$

Left In: 3.194 ± 0.150 $\chi^2/\text{NDF}: 1295.0/22$

Left: 3.118 ± 0.105 $\chi^2/\text{NDF}: 2752.7/47$

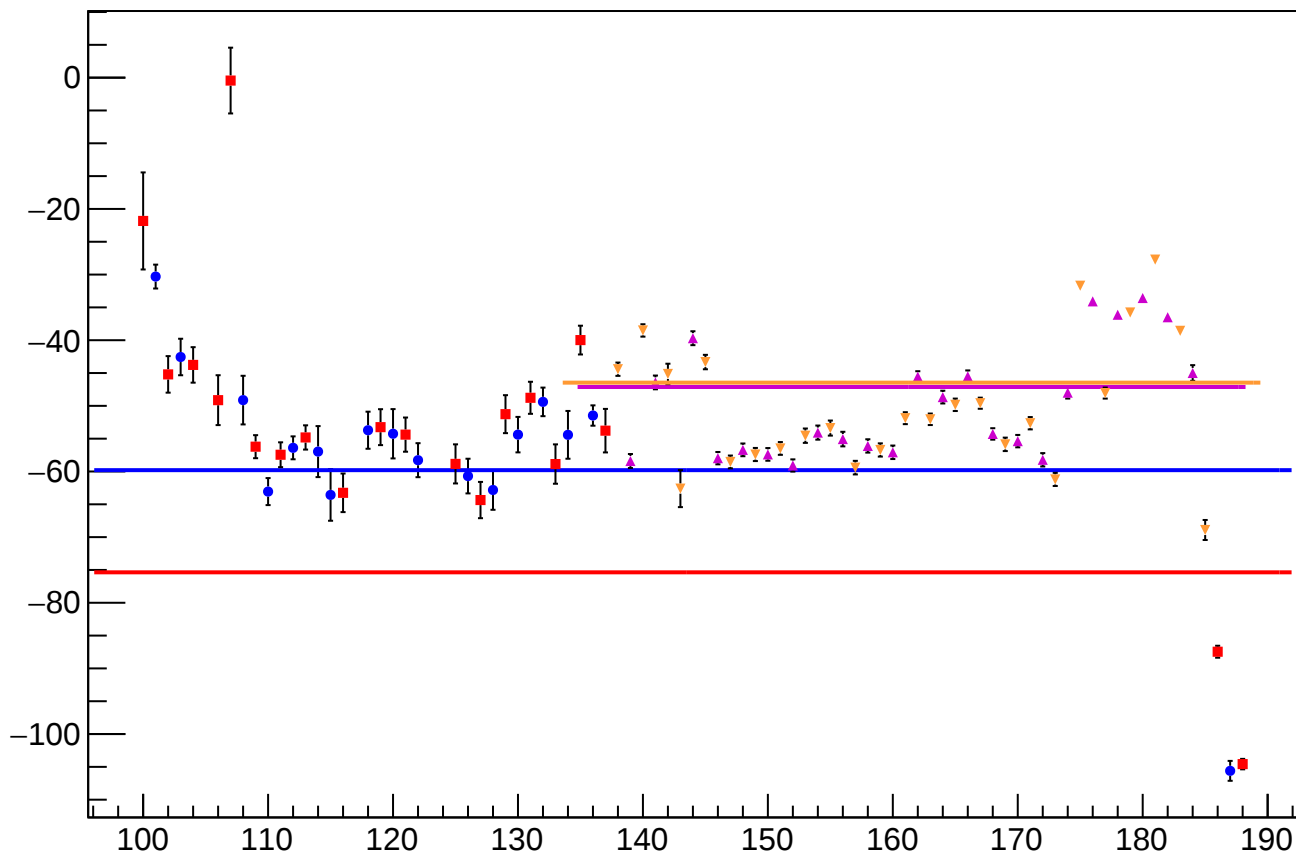
Right: 0.687 ± 0.238 $\chi^2/\text{NDF}: 106.1/36$

In: 2.809 ± 0.137 $\chi^2/\text{NDF}: 1388.8/39$

Out: 2.636 ± 0.135 $\chi^2/\text{NDF}: 1556.5/44$

All: 2.721 ± 0.096 $\chi^2/\text{NDF}: 2946.2/84$

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.797 ± 0.570 χ^2/NDF : 1296.9/16

Left Out: -46.463 ± 0.186 χ^2/NDF : 3319.7/24

Right Out: -75.363 ± 0.430 χ^2/NDF : 3142.3/19

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.793 ± 0.132 χ^2/NDF : 5842.0/47

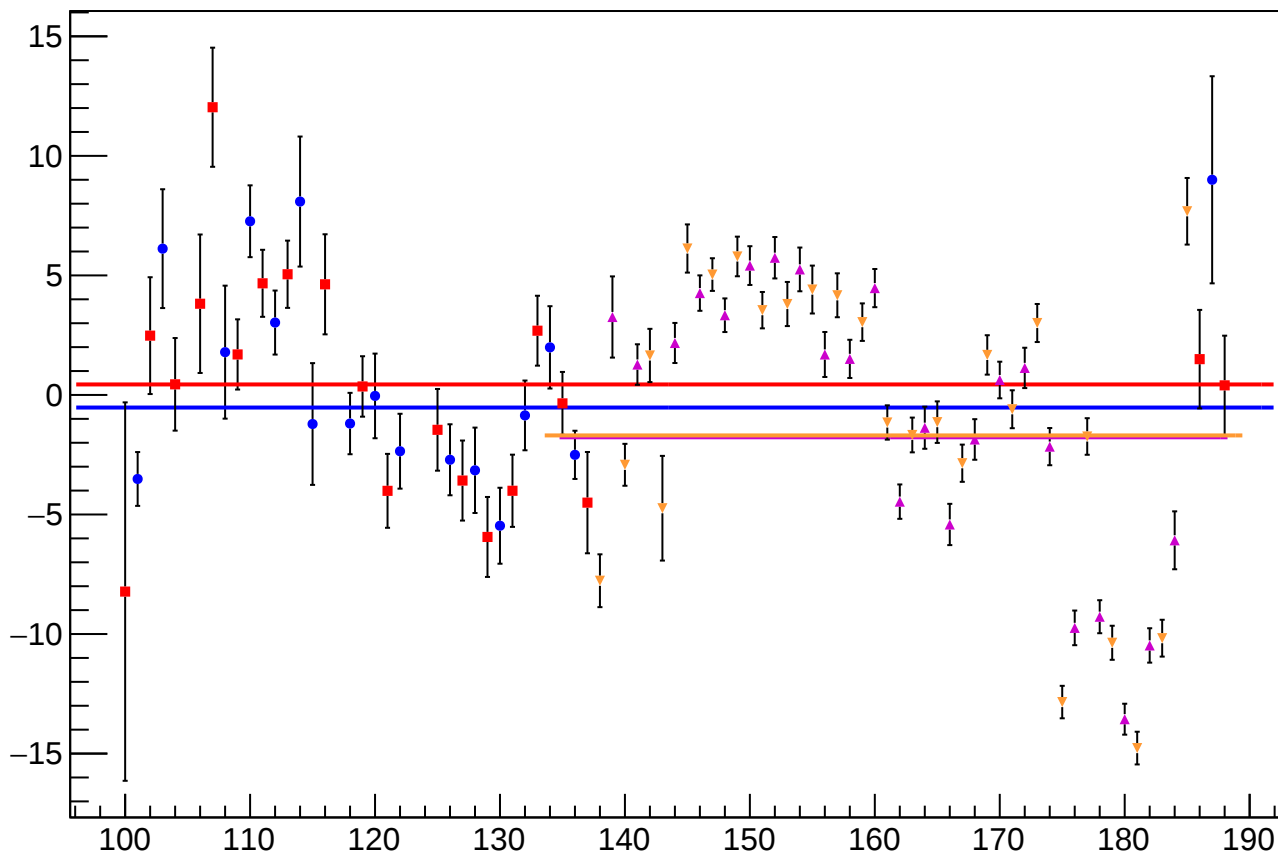
Right: -69.720 ± 0.343 χ^2/NDF : 4913.8/36

In: -48.359 ± 0.178 χ^2/NDF : 4258.2/39

Out: -51.021 ± 0.171 χ^2/NDF : 10263.3/44

All: -49.744 ± 0.123 χ^2/NDF : 14638.0/84

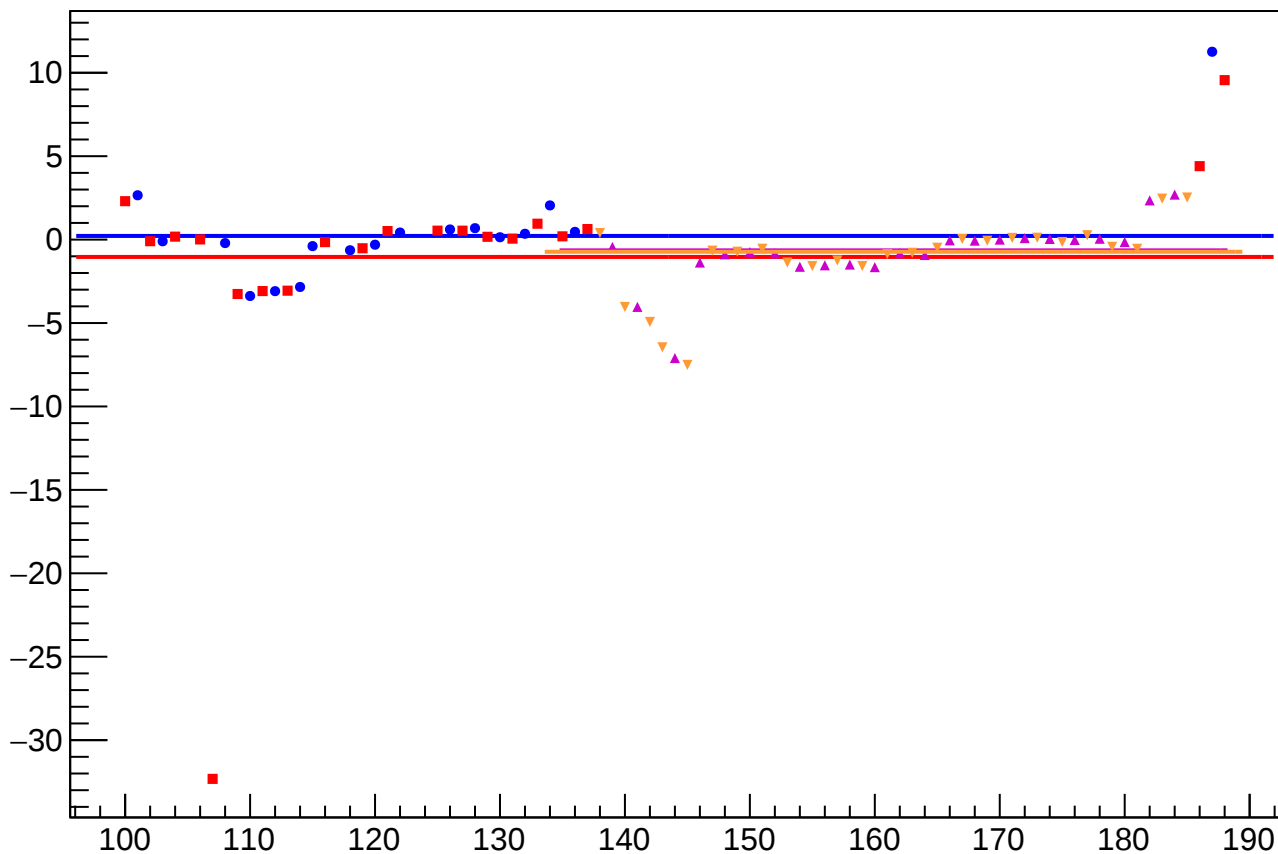
reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.527 ± 0.386 $\chi^2/\text{NDF}: 85.6/16$
 Left Out: -1.693 ± 0.167 $\chi^2/\text{NDF}: 1485.7/24$
 Right Out: 0.440 ± 0.386 $\chi^2/\text{NDF}: 96.4/19$
 Left In: -1.771 ± 0.169 $\chi^2/\text{NDF}: 1251.3/22$

Left: -1.731 ± 0.119 $\chi^2/\text{NDF}: 2737.1/47$
 Right: -0.044 ± 0.273 $\chi^2/\text{NDF}: 185.1/36$
 In: -1.571 ± 0.155 $\chi^2/\text{NDF}: 1345.5/39$
 Out: -1.358 ± 0.153 $\chi^2/\text{NDF}: 1607.9/44$
 All: -1.463 ± 0.109 $\chi^2/\text{NDF}: 2954.4/84$

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.221 ± 0.021 $\chi^2/\text{NDF}: 7281.3/16$
 Left Out: -0.728 ± 0.008 $\chi^2/\text{NDF}: 56403.8/24$
 Right Out: -1.038 ± 0.021 $\chi^2/\text{NDF}: 90656.0/19$
 Left In: -0.644 ± 0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.686 ± 0.005 $\chi^2/\text{NDF}: 100633.3/47$

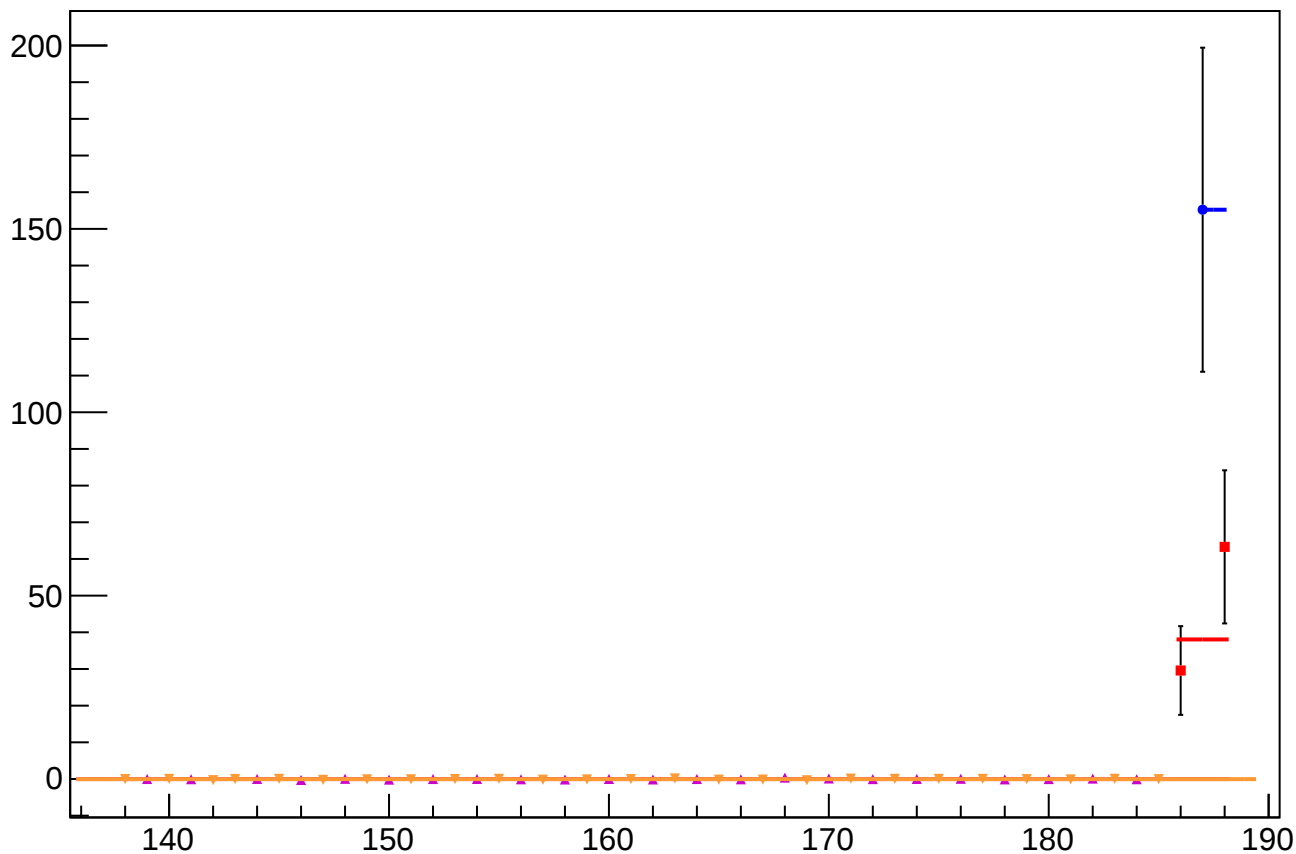
Right: -0.419 ± 0.015 $\chi^2/\text{NDF}: 99679.5/36$

In: -0.546 ± 0.007 $\chi^2/\text{NDF}: 52884.9/39$

Out: -0.764 ± 0.007 $\chi^2/\text{NDF}: 147250.3/44$

All: -0.656 ± 0.005 $\chi^2/\text{NDF}: 200590.7/84$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 155.225 $\pm$ 44.188 χ^2 /NDF: 0.0/0

Left Out: -0.036 $\pm$ 0.018 χ^2 /NDF: 35.6/24

Right Out: 38.053 $\pm$ 10.463 χ^2 /NDF: 2.0/1

Left In: -0.010 $\pm$ 0.018 χ^2 /NDF: 35.1/22

Left: -0.023 $\pm$ 0.013 χ^2 /NDF: 71.8/47

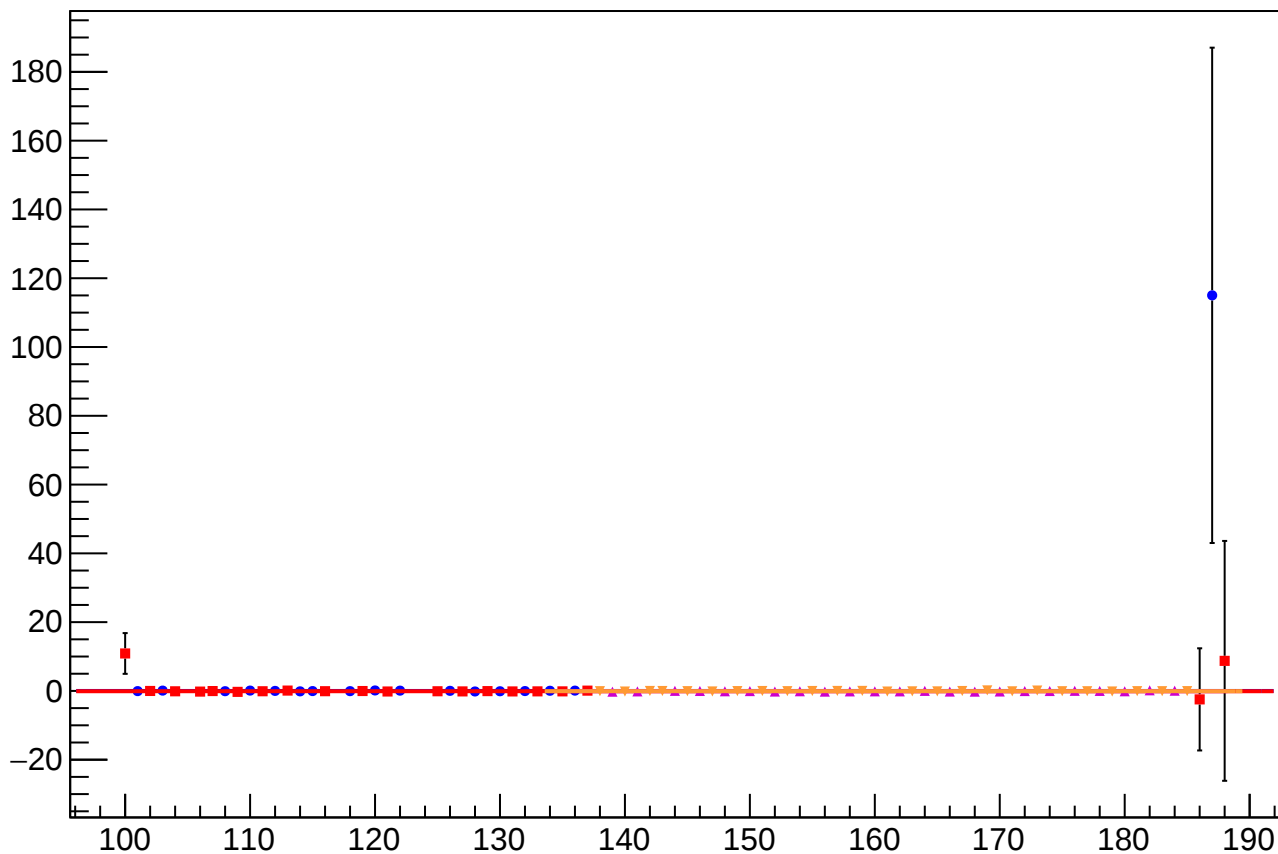
Right: 44.274 $\pm$ 10.182 χ^2 /NDF: 8.6/2

In: -0.010 $\pm$ 0.018 χ^2 /NDF: 47.5/23

Out: -0.036 $\pm$ 0.018 χ^2 /NDF: 50.8/26

All: -0.023 $\pm$ 0.013 χ^2 /NDF: 99.3/50

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013+/-0.023 χ^2/NDF : 14.6/16

Left Out: -0.071+/-0.014 χ^2/NDF : 28.3/24

Right Out: -0.088+/-0.025 χ^2/NDF : 13.0/19

Left In: -0.064+/-0.014 χ^2/NDF : 41.1/22

Left: -0.067+/-0.010 χ^2/NDF : 69.5/47

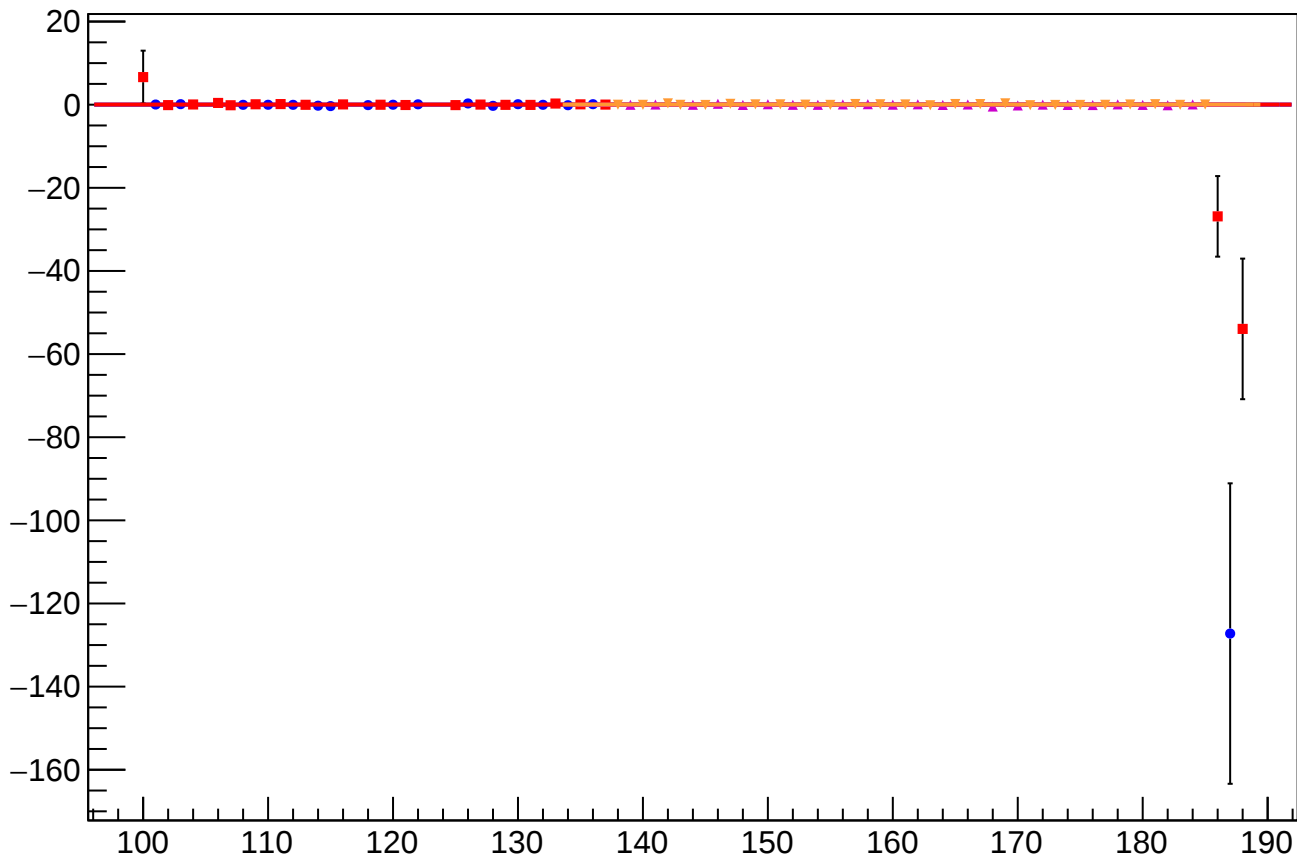
Right: -0.049+/-0.017 χ^2/NDF : 32.3/36

In: -0.050+/-0.012 χ^2/NDF : 59.0/39

Out: -0.075+/-0.012 χ^2/NDF : 41.7/44

All: -0.063+/-0.009 χ^2/NDF : 102.7/84

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 21.5/16

Left Out: 0.033+/-0.018 χ^2/NDF : 32.6/24

Right Out: 0.031+/-0.045 χ^2/NDF : 27.0/19

Left In: -0.009+/-0.018 χ^2/NDF : 36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.2/47

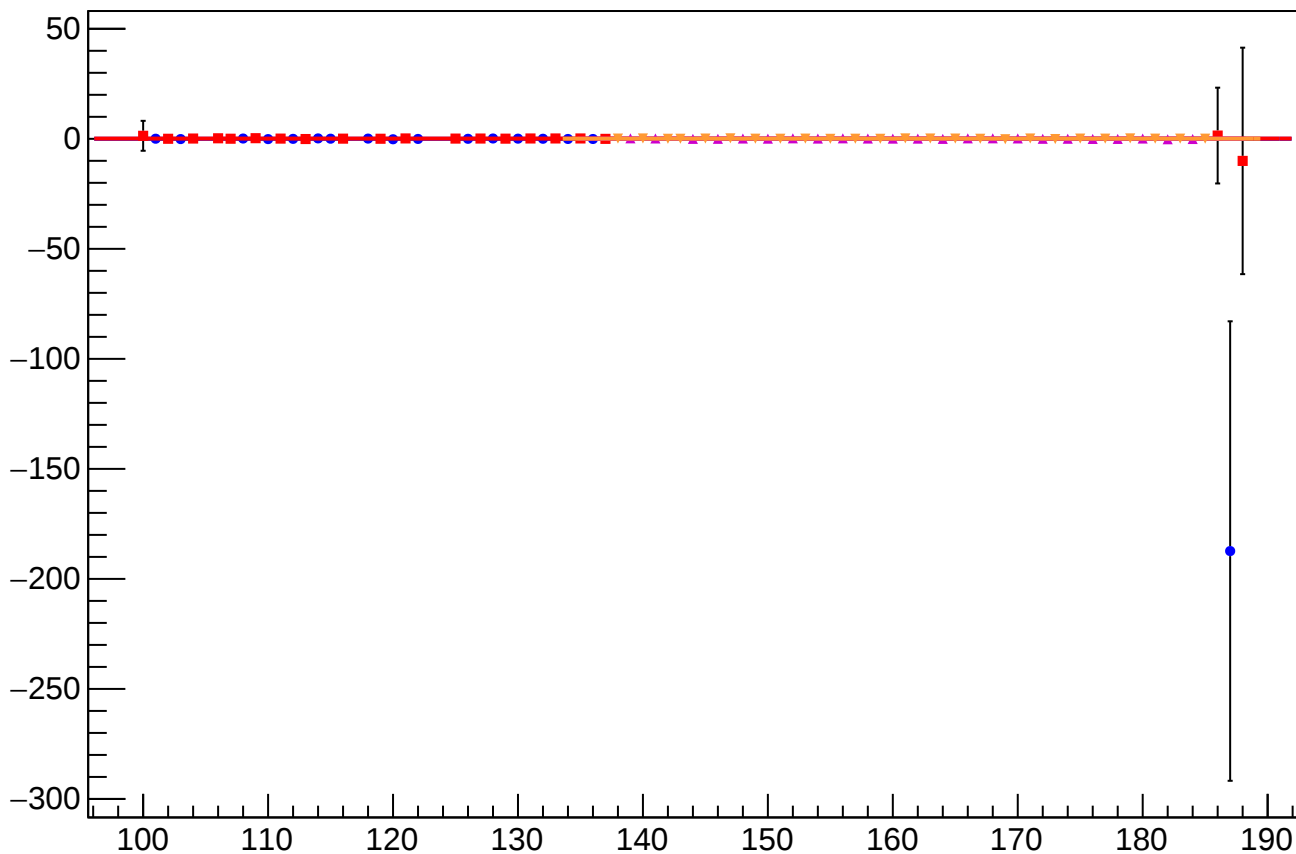
Right: 0.023+/-0.031 χ^2/NDF : 48.5/36

In: -0.005+/-0.017 χ^2/NDF : 58.6/39

Out: 0.033+/-0.016 χ^2/NDF : 59.5/44

All: 0.014+/-0.012 χ^2/NDF : 120.8/84

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 14.9/16

Left Out: 0.084 $\pm$ 0.016 χ^2 /NDF:28.1/24

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 8.2/19

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

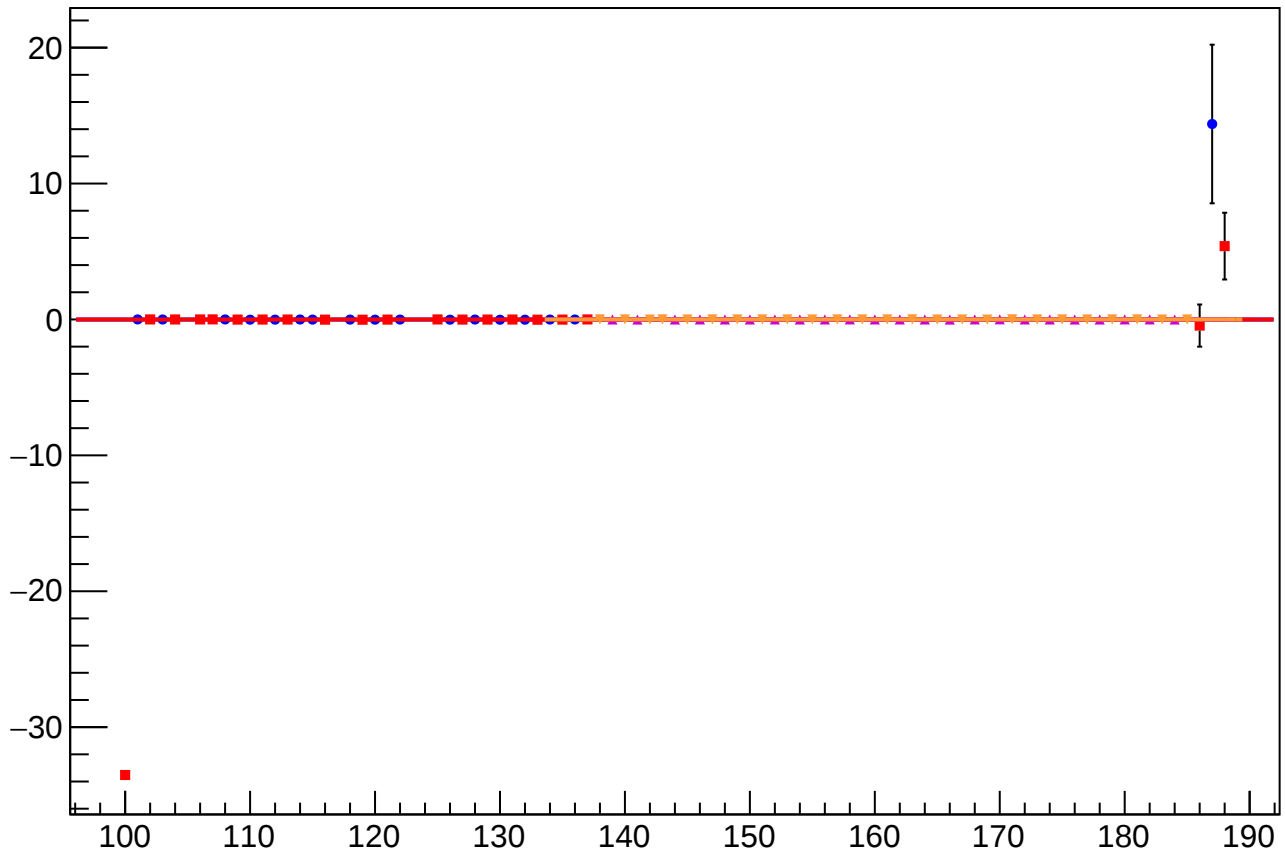
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 29.1/36

In: 0.053 $\pm$ 0.014 χ^2 /NDF:63.5/39

Out: 0.089 $\pm$ 0.014 χ^2 /NDF:36.7/44

All: 0.071 $\pm$ 0.010 χ^2 /NDF: 103.5/84

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005+/-0.001 χ^2 /NDF: 27.6/16

Left Out: 0.001+/-0.001 χ^2 /NDF:26.1/24

Right Out: -0.006+/-0.001 χ^2 /NDF: 26513.9/19

Left In: 0.000+/-0.001 χ^2 /NDF:22.3/22

Left: 0.000+/-0.001 χ^2 /NDF: 48.6/47

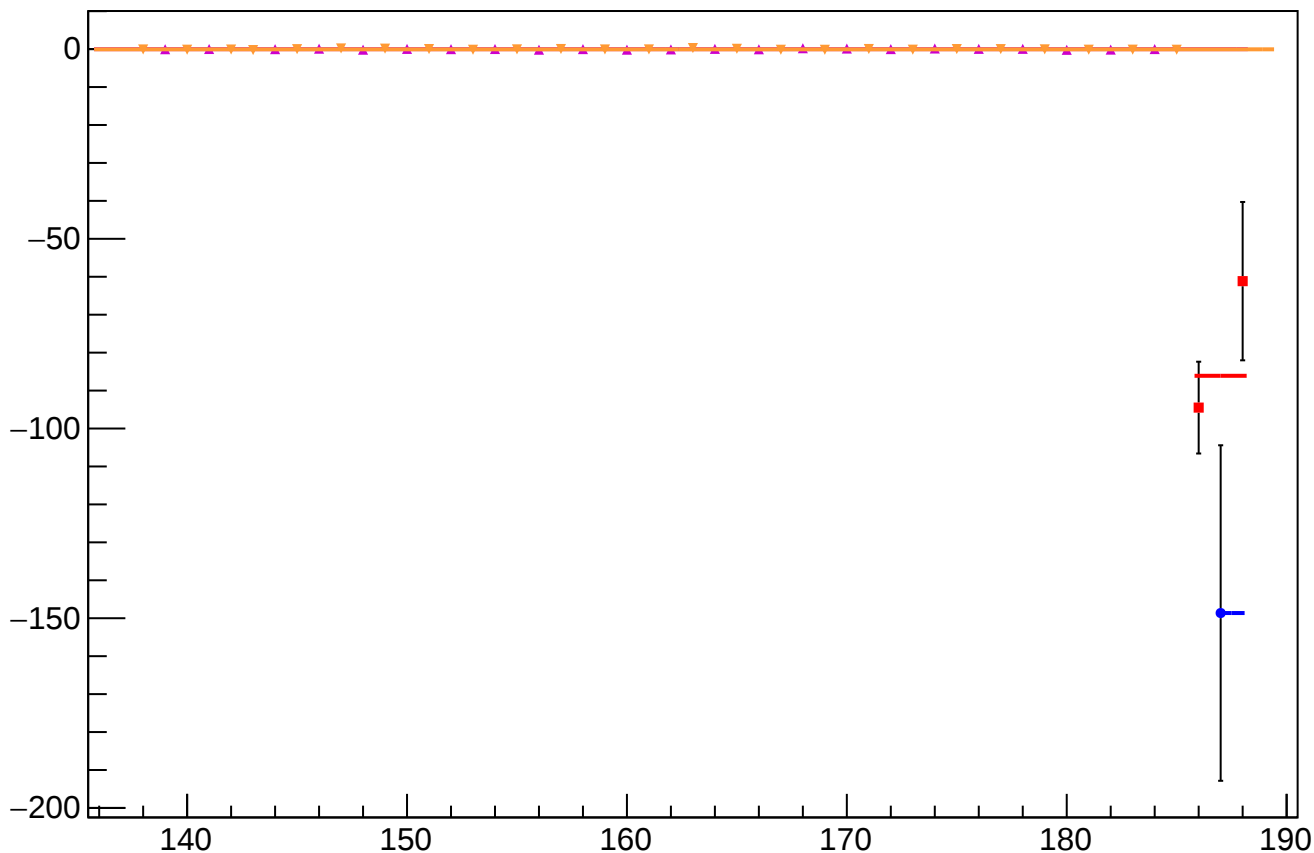
Right: -0.006+/-0.001 χ^2 /NDF: 26541.5/36

In: -0.001+/-0.001 χ^2 /NDF:61.6/39

Out: -0.001+/-0.001 χ^2 /NDF:26556.2/44

All: -0.001+/-0.000 χ^2 /NDF: 26617.9/84

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -148.630+/-44.216 χ^2/NDF : 0.0/0

Left Out: -0.059+/-0.018 χ^2/NDF : 41.7/24

Right Out: -86.104+/-10.466 χ^2/NDF : 1.9/1

Left In: -0.009+/-0.018 χ^2/NDF : 35.1/22

Left: -0.034+/-0.013 χ^2/NDF : 80.7/47

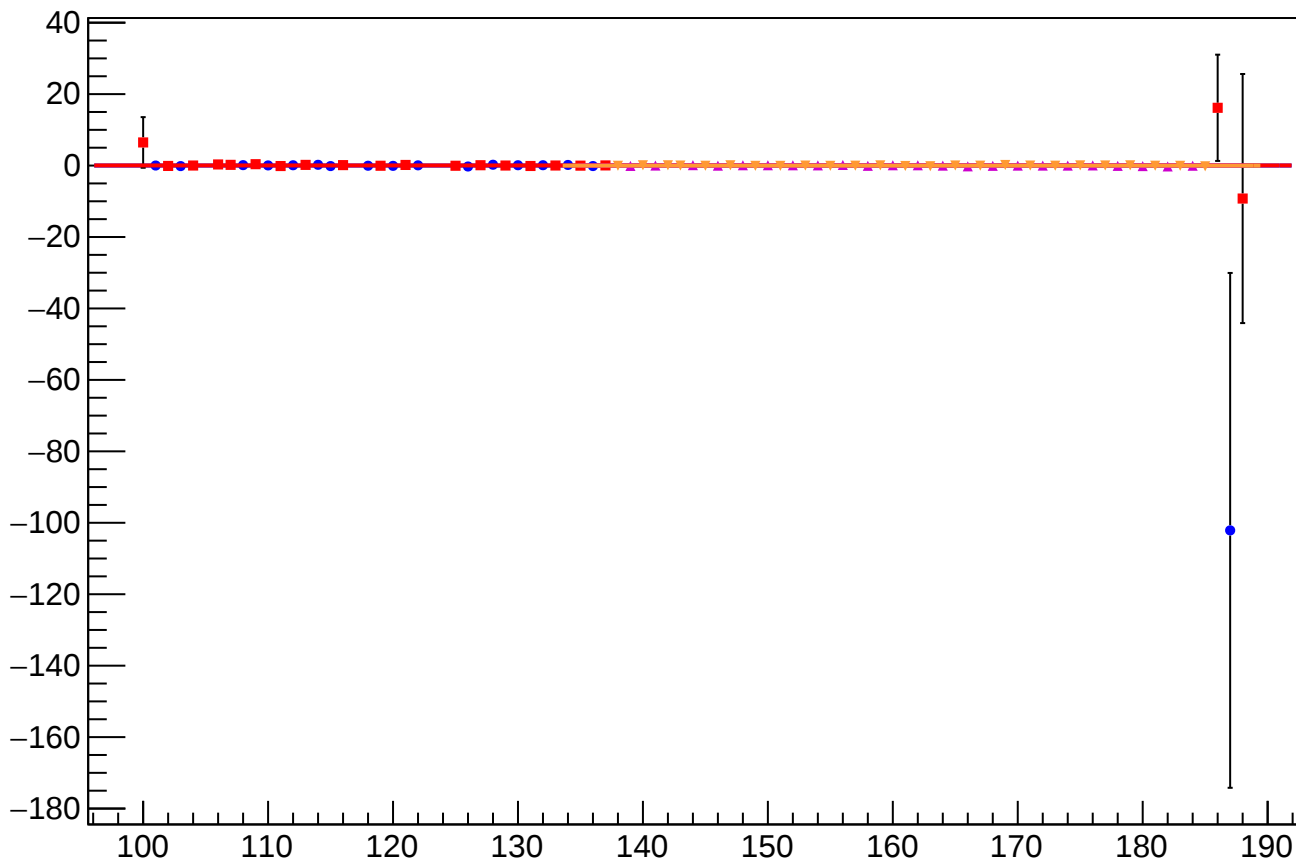
Right: -89.421+/-10.185 χ^2/NDF : 3.8/2

In: -0.009+/-0.018 χ^2/NDF : 46.4/23

Out: -0.059+/-0.018 χ^2/NDF : 111.2/26

All: -0.035+/-0.013 χ^2/NDF : 161.5/50

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.023 χ^2 /NDF: 27.2/16

Left Out: -0.010 $\pm$ 0.014 χ^2 /NDF:29.7/24

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 29.9/19

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

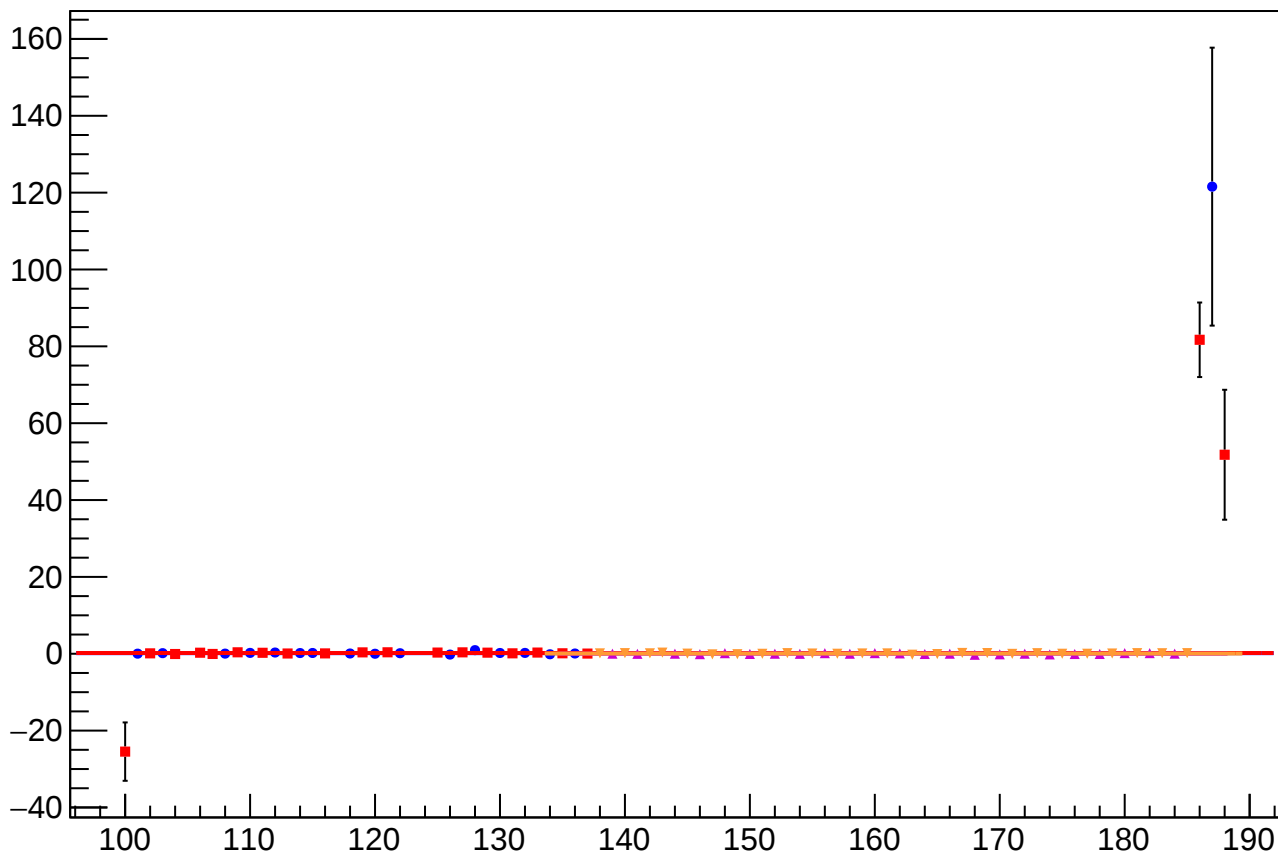
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 57.8/36

In: 0.006 $\pm$ 0.012 χ^2 /NDF:76.7/39

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:62.3/44

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 139.1/84

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 41.0/16

Left Out: 0.055 $\pm$ 0.018 χ^2 /NDF:41.0/24

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 101.9/19

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

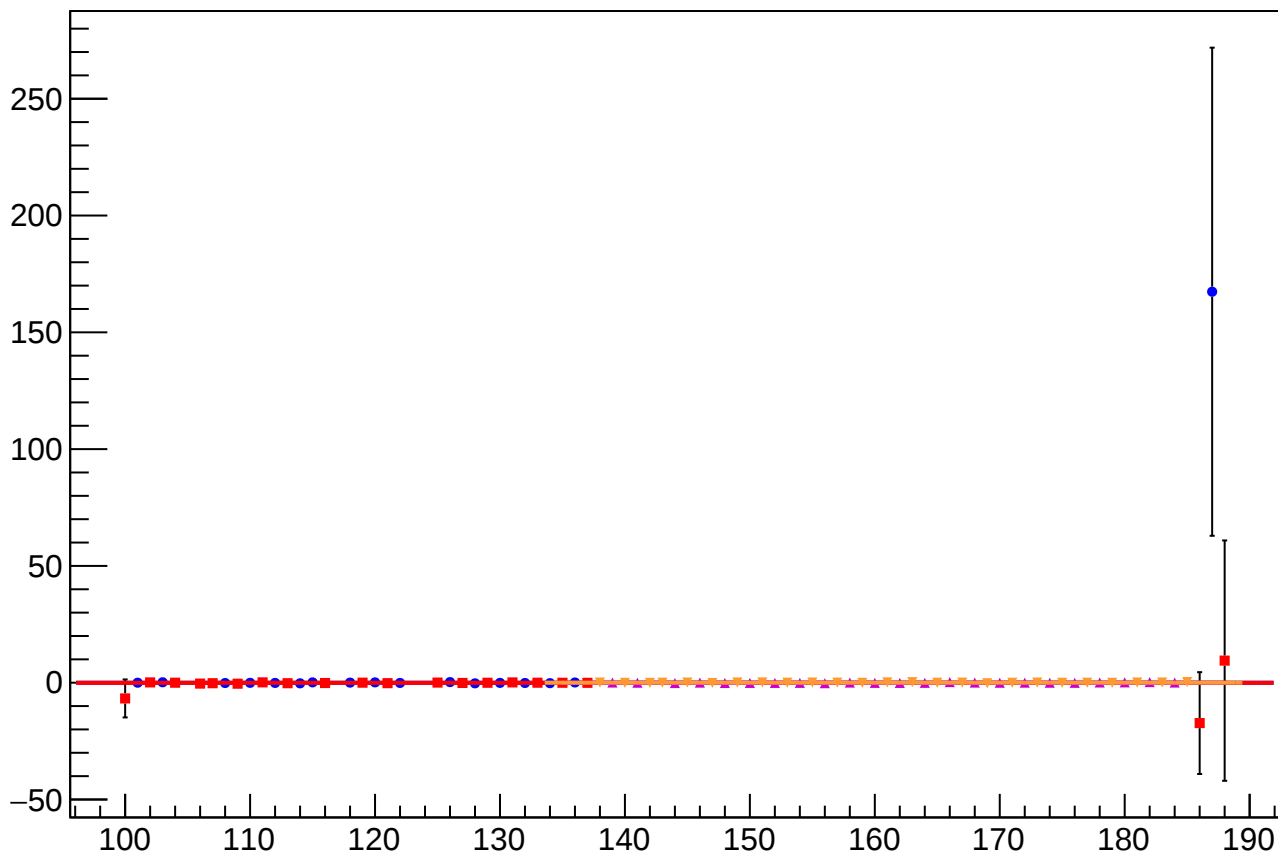
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 143.3/36

In: 0.040 $\pm$ 0.017 χ^2 /NDF:85.4/39

Out: 0.074 $\pm$ 0.016 χ^2 /NDF:151.5/44

All: 0.057 $\pm$ 0.012 χ^2 /NDF: 239.0/84

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 $\pm$ 0.027 χ^2/NDF : 27.2/16

Left Out: 0.021 $\pm$ 0.016 χ^2/NDF :33.4/24

Right Out: -0.046 $\pm$ 0.029 χ^2/NDF : 26.9/19

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

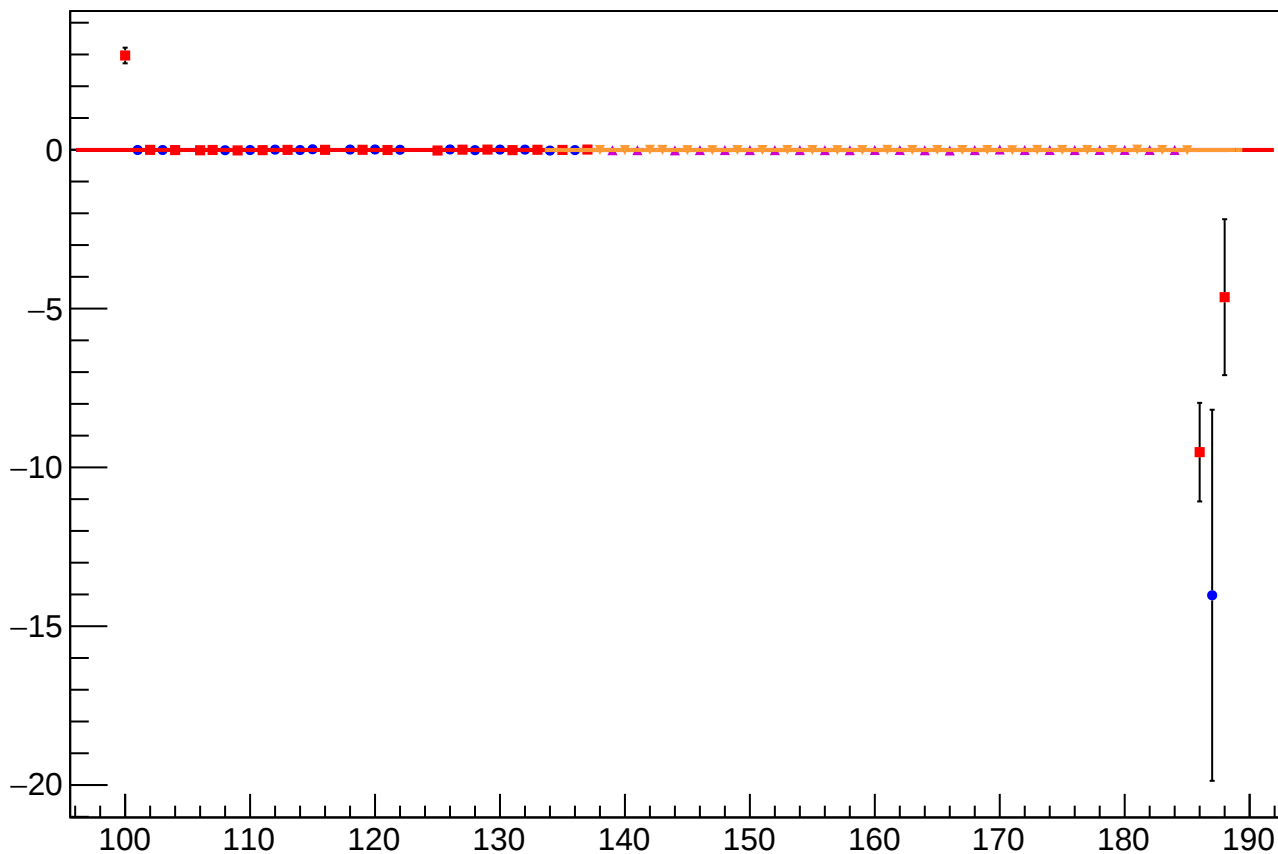
Right: -0.027 $\pm$ 0.020 χ^2/NDF : 54.9/36

In: 0.002 $\pm$ 0.014 χ^2/NDF :77.6/39

Out: 0.005 $\pm$ 0.014 χ^2/NDF :64.6/44

All: 0.003 $\pm$ 0.010 χ^2/NDF : 142.1/84

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2/NDF : 33.2/16

Left Out: -0.008+/-0.001 χ^2/NDF : 32.7/24

Right Out: -0.006+/-0.001 χ^2/NDF : 206.4/19

Left In: -0.009+/-0.001 χ^2/NDF : 37.2/22

Left: -0.008+/-0.001 χ^2/NDF : 70.3/47

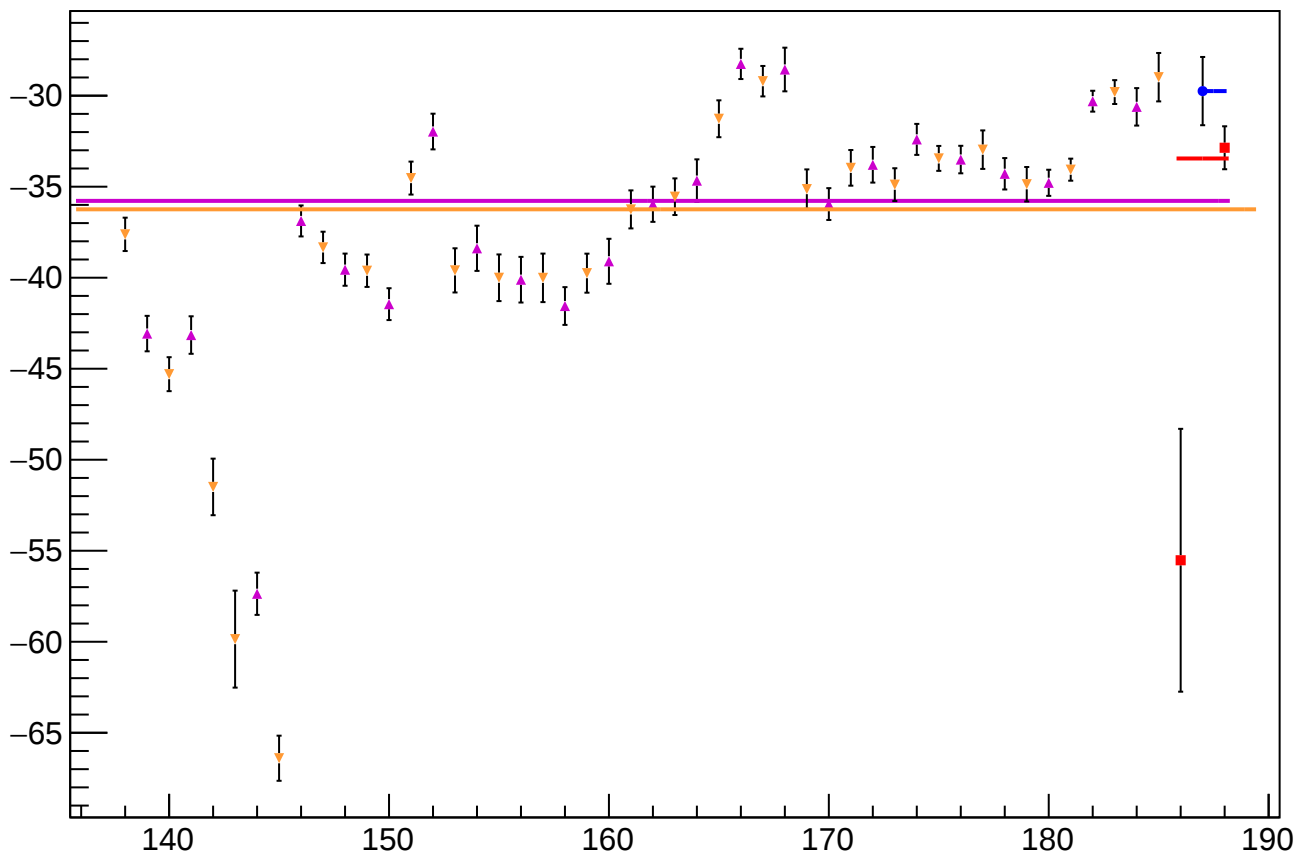
Right: -0.006+/-0.001 χ^2/NDF : 239.6/36

In: -0.008+/-0.001 χ^2/NDF : 73.0/39

Out: -0.008+/-0.001 χ^2/NDF : 241.0/44

All: -0.008+/-0.000 χ^2/NDF : 314.3/84

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.748 ± 1.875 χ^2/NDF : 0.0/0

Left Out: -36.243 ± 0.191 χ^2/NDF : 1193.9/24

Right Out: -33.450 ± 1.164 χ^2/NDF : 9.6/1

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -36.011 ± 0.135 χ^2/NDF : 2050.9/47

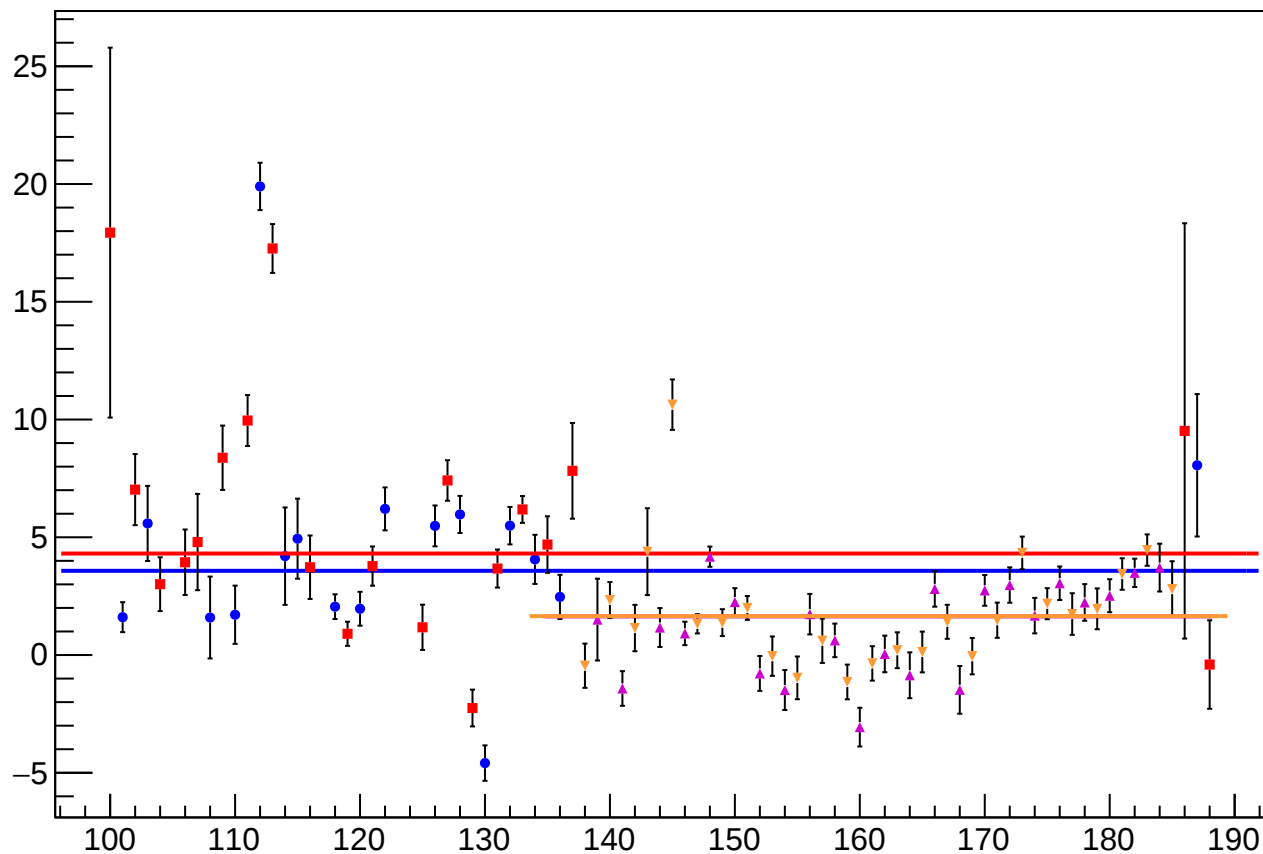
Right: -32.420 ± 0.989 χ^2/NDF : 12.4/2

In: -35.717 ± 0.190 χ^2/NDF : 864.3/23

Out: -36.169 ± 0.189 χ^2/NDF : 1209.1/26

All: -35.945 ± 0.134 χ^2/NDF : 2076.3/50

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.576 $\pm$ 0.220 χ^2 /NDF: 442.1/16

Left Out: 1.652 $\pm$ 0.147 χ^2 /NDF:168.8/24

Right Out: 4.310 $\pm$ 0.224 χ^2 /NDF: 359.9/19

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

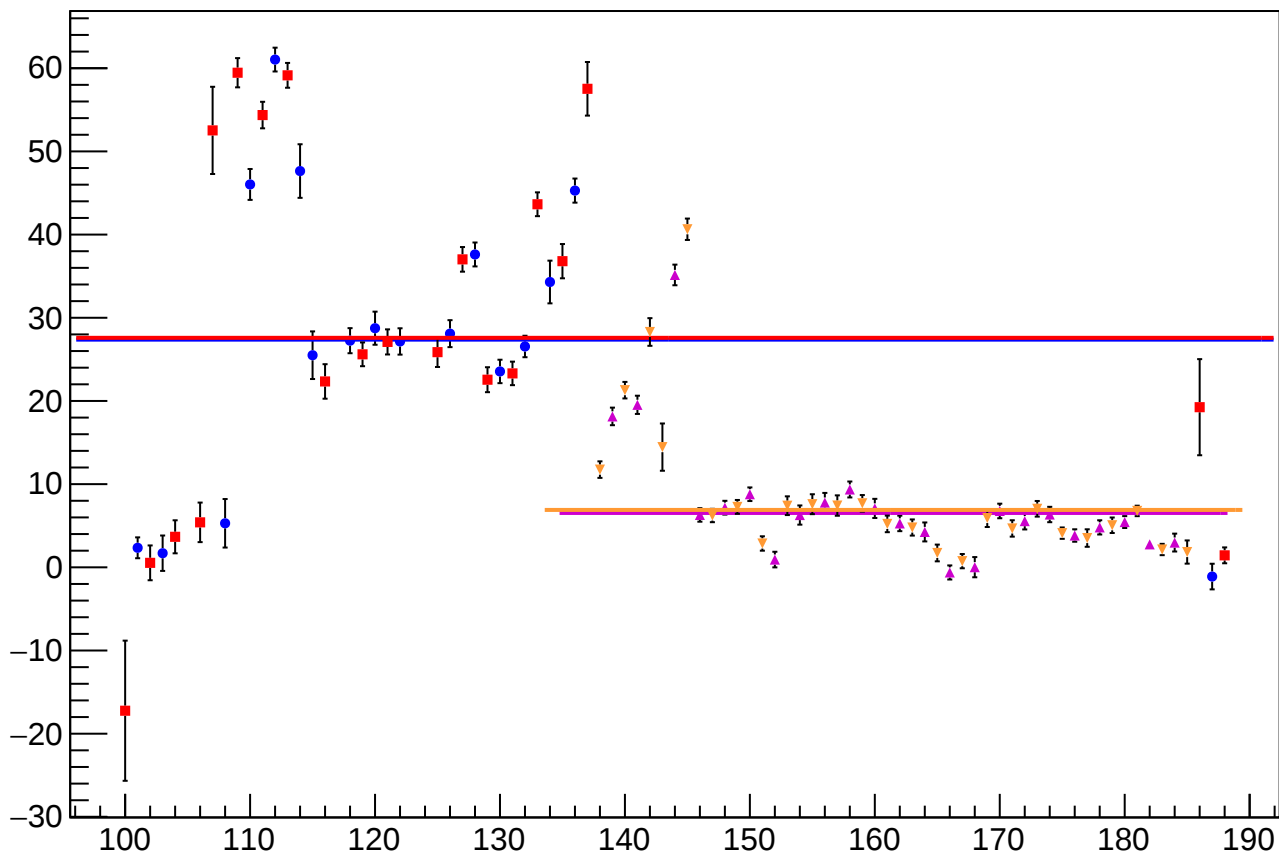
Right: 3.937 $\pm$ 0.157 χ^2 /NDF: 807.5/36

In: 2.252 $\pm$ 0.124 χ^2 /NDF:658.2/39

Out: 2.457 $\pm$ 0.123 χ^2 /NDF:627.2/44

All: 2.355 $\pm$ 0.087 χ^2 /NDF: 1286.8/84

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.373 $\pm$ 0.406 χ^2 /NDF: 1856.9/16

Left Out: 6.900 $\pm$ 0.191 χ^2 /NDF:1302.8/24

Right Out: 27.589 $\pm$ 0.386 χ^2 /NDF: 2564.9/19

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.718 $\pm$ 0.135 χ^2 /NDF: 2329.7/47

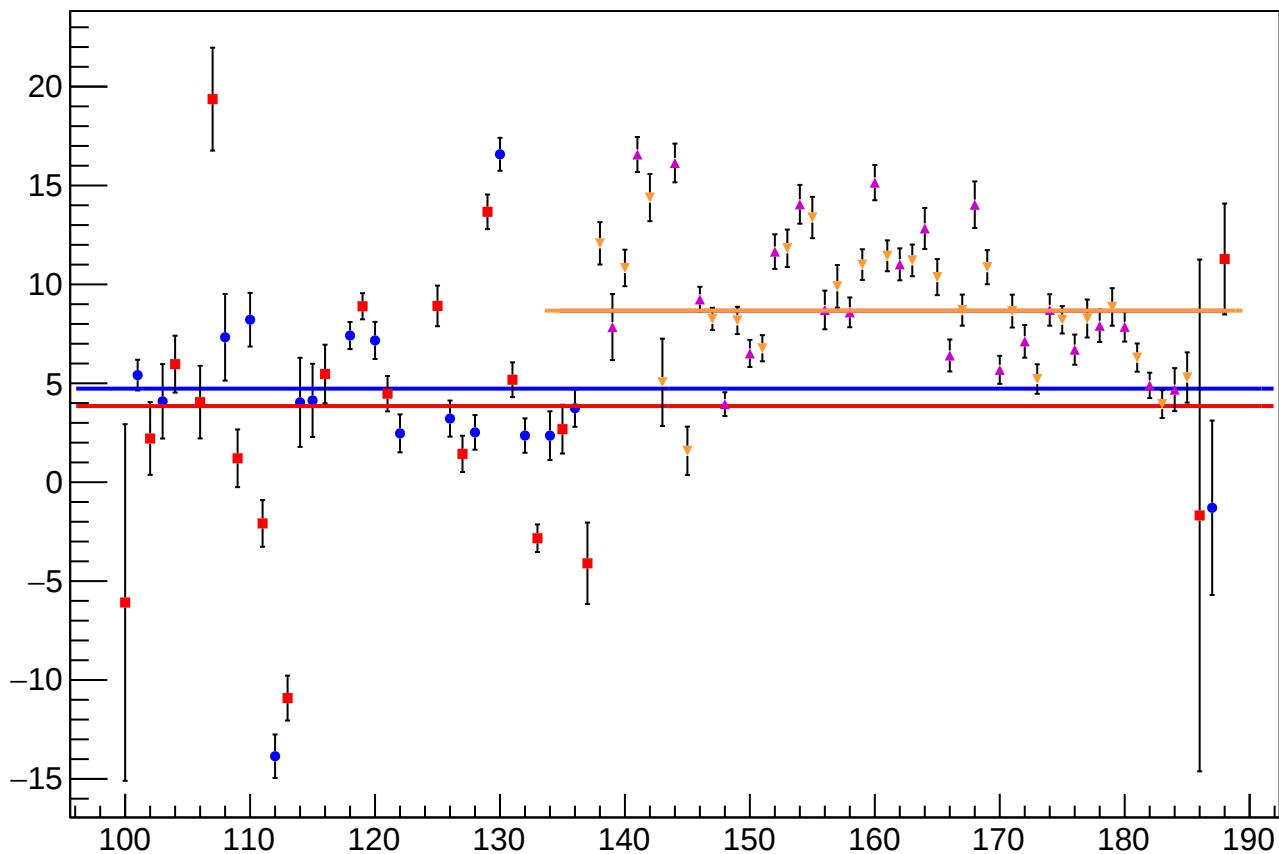
Right: 27.486 $\pm$ 0.280 χ^2 /NDF: 4421.9/36

In: 10.300 $\pm$ 0.172 χ^2 /NDF:5045.3/39

Out: 10.963 $\pm$ 0.171 χ^2 /NDF:6173.0/44

All: 10.634 $\pm$ 0.121 χ^2 /NDF: 11225.8/84

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.730 $\pm$ 0.254 χ^2 /NDF: 548.4/16

Left Out: 8.674 $\pm$ 0.168 χ^2 /NDF:243.7/24

Right Out: 3.850 $\pm$ 0.258 χ^2 /NDF: 572.0/19

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

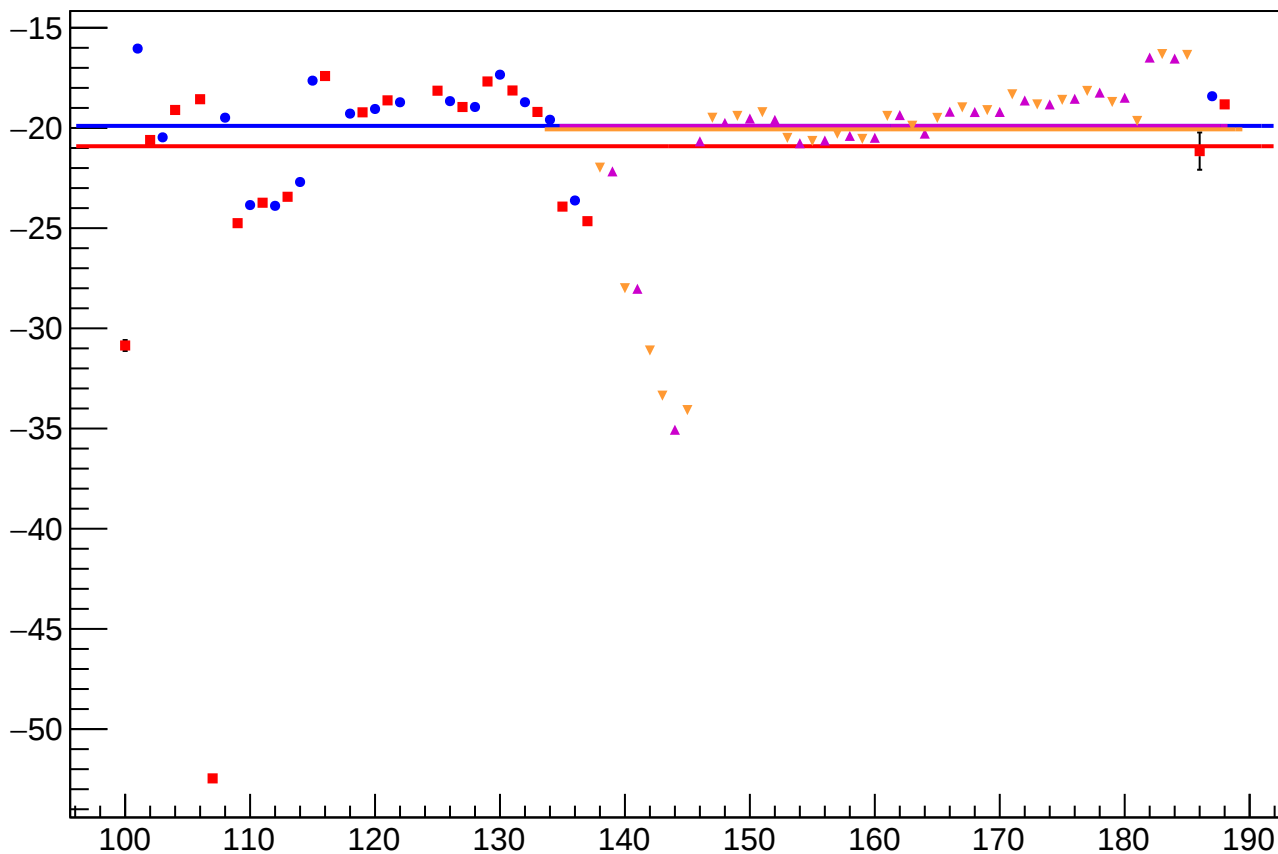
Right: 4.297 $\pm$ 0.181 χ^2 /NDF: 1126.4/36

In: 7.449 $\pm$ 0.141 χ^2 /NDF:1151.0/39

Out: 7.230 $\pm$ 0.141 χ^2 /NDF:1060.9/44

All: 7.339 $\pm$ 0.100 χ^2 /NDF: 2213.1/84

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.896 ± 0.016 $\chi^2/\text{NDF}: 26055.2/16$

Left Out: -20.069 ± 0.008 $\chi^2/\text{NDF}: 185373.7/24$

Right Out: -20.911 ± 0.016 $\chi^2/\text{NDF}: 94202.6/19$

Left In: -19.898 ± 0.008 $\chi^2/\text{NDF}: 144191.9/22$

Left: -19.983 ± 0.006 $\chi^2/\text{NDF}: 329802.7/47$

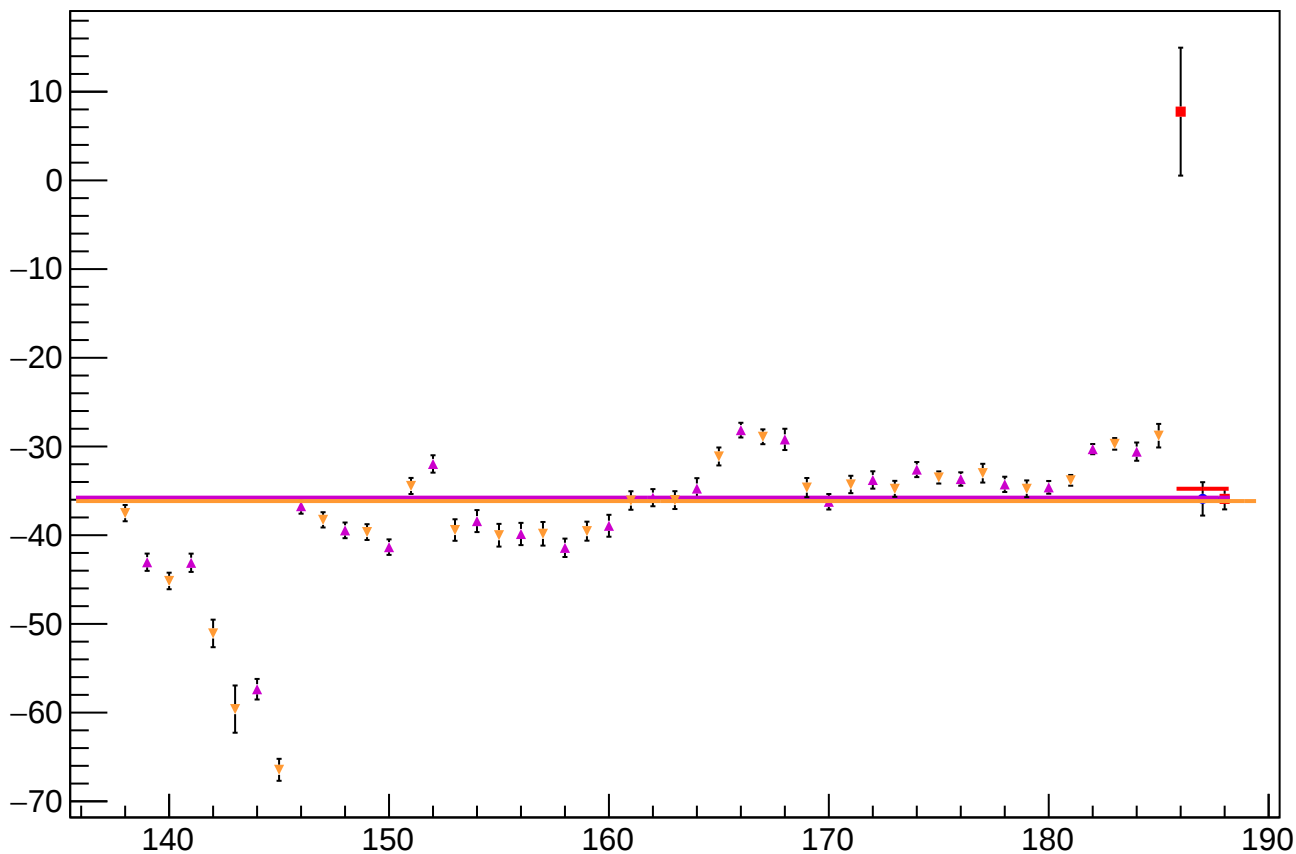
Right: -20.403 ± 0.011 $\chi^2/\text{NDF}: 122364.5/36$

In: -19.898 ± 0.007 $\chi^2/\text{NDF}: 170247.1/39$

Out: -20.239 ± 0.007 $\chi^2/\text{NDF}: 281886.6/44$

All: -20.068 ± 0.005 $\chi^2/\text{NDF}: 453318.0/84$

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -35.906 ± 1.881 χ^2/NDF : 0.0/0

Left Out: -36.152 ± 0.191 χ^2/NDF : 1199.2/24

Right Out: -34.763 ± 1.167 χ^2/NDF : 35.7/1

Left In: -35.766 ± 0.191 χ^2/NDF : 842.6/22

Left: -35.959 ± 0.135 χ^2/NDF : 2043.8/47

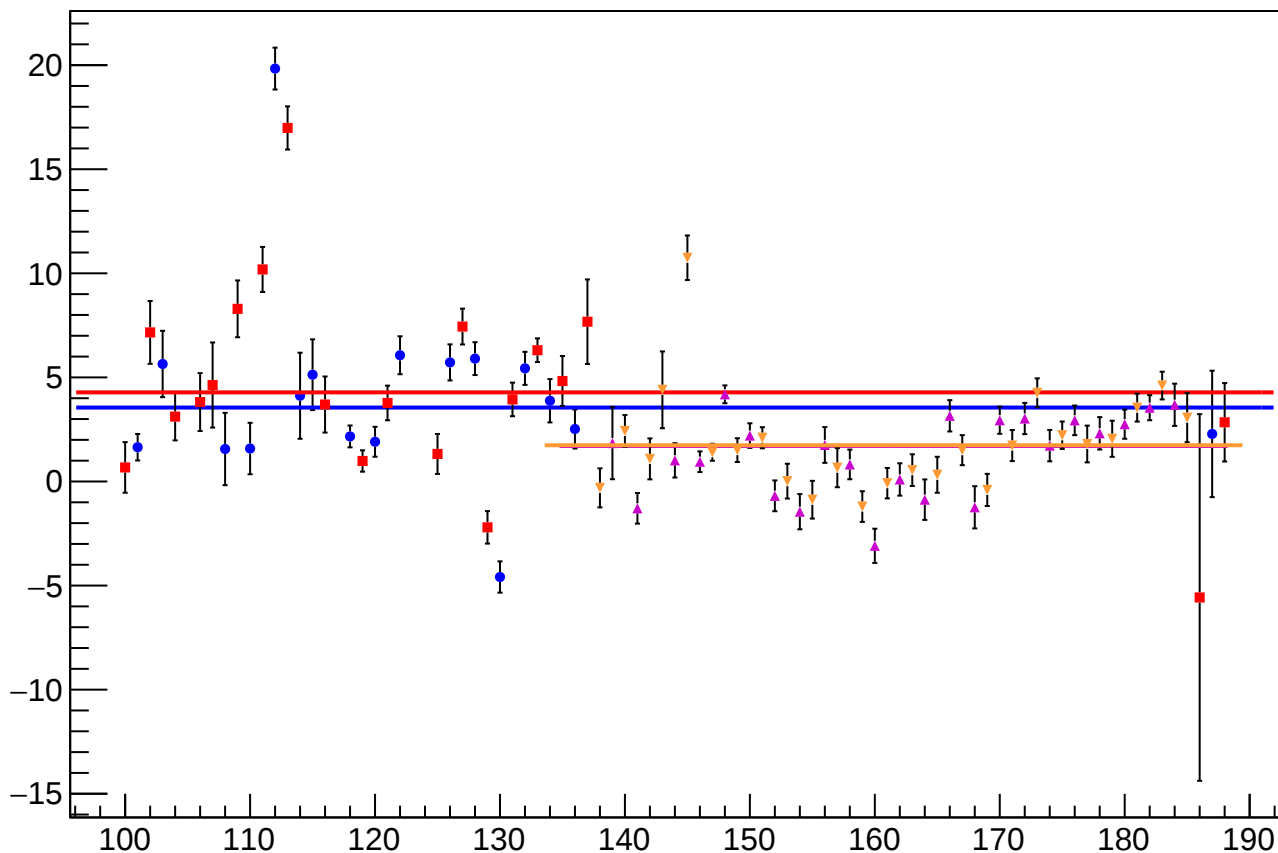
Right: -35.080 ± 0.992 χ^2/NDF : 35.9/2

In: -35.768 ± 0.190 χ^2/NDF : 842.6/23

Out: -36.116 ± 0.189 χ^2/NDF : 1236.3/26

All: -35.943 ± 0.134 χ^2/NDF : 2080.6/50

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.552 ± 0.220 $\chi^2/\text{NDF}: 437.3/16$

Left Out: 1.741 ± 0.147 $\chi^2/\text{NDF}: 170.2/24$

Right Out: 4.281 ± 0.220 $\chi^2/\text{NDF}: 354.0/19$

Left In: 1.705 ± 0.149 $\chi^2/\text{NDF}: 163.0/22$

Left: 1.723 ± 0.105 $\chi^2/\text{NDF}: 333.2/47$

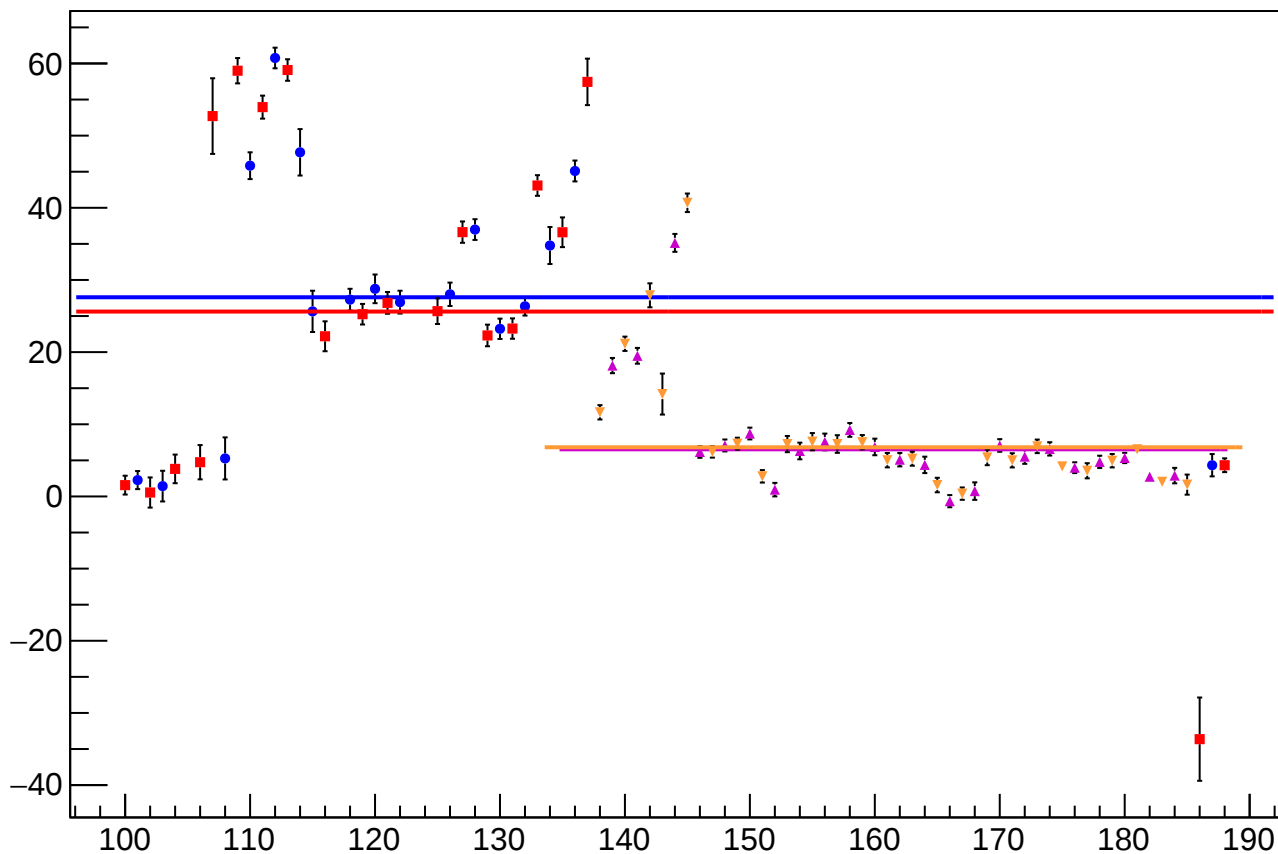
Right: 3.917 ± 0.155 $\chi^2/\text{NDF}: 796.7/36$

In: 2.288 ± 0.124 $\chi^2/\text{NDF}: 648.5/39$

Out: 2.527 ± 0.122 $\chi^2/\text{NDF}: 616.4/44$

All: 2.409 ± 0.087 $\chi^2/\text{NDF}: 1266.9/84$

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.603 $\pm$ 0.405 χ^2 /NDF: 1726.7/16

Left Out: 6.813 $\pm$ 0.191 χ^2 /NDF:1304.5/24

Right Out: 25.623 $\pm$ 0.371 χ^2 /NDF: 2832.4/19

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

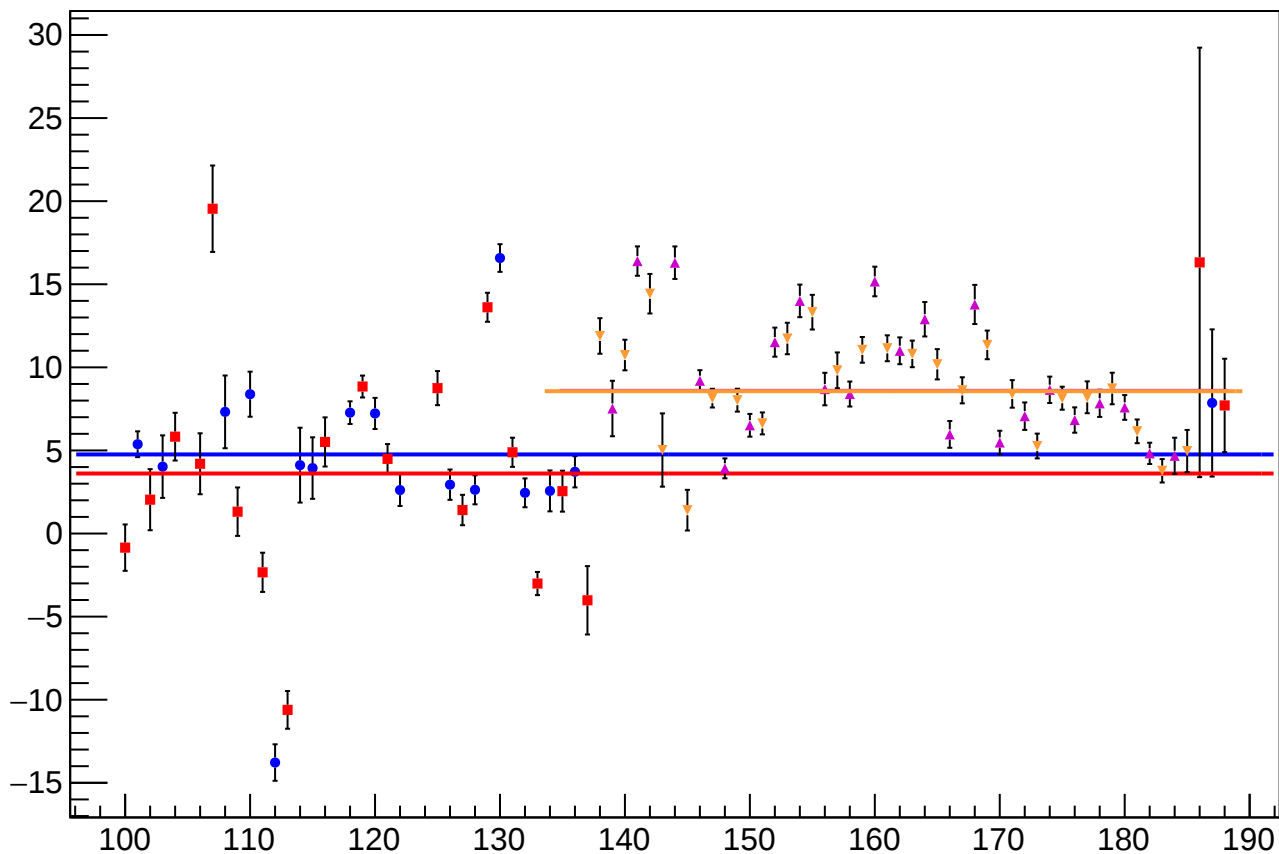
Right: 26.525 $\pm$ 0.274 χ^2 /NDF: 4572.0/36

In: 10.337 $\pm$ 0.172 χ^2 /NDF:4959.0/39

Out: 10.754 $\pm$ 0.170 χ^2 /NDF:6172.1/44

All: 10.548 $\pm$ 0.121 χ^2 /NDF: 11134.1/84

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.760 ± 0.254 χ^2/NDF : 543.5/16

Left Out: 8.565 ± 0.168 χ^2/NDF : 248.1/24

Right Out: 3.612 ± 0.253 χ^2/NDF : 573.5/19

Left In: 8.585 ± 0.170 χ^2/NDF : 441.8/22

Left: 8.575 ± 0.120 χ^2/NDF : 689.9/47

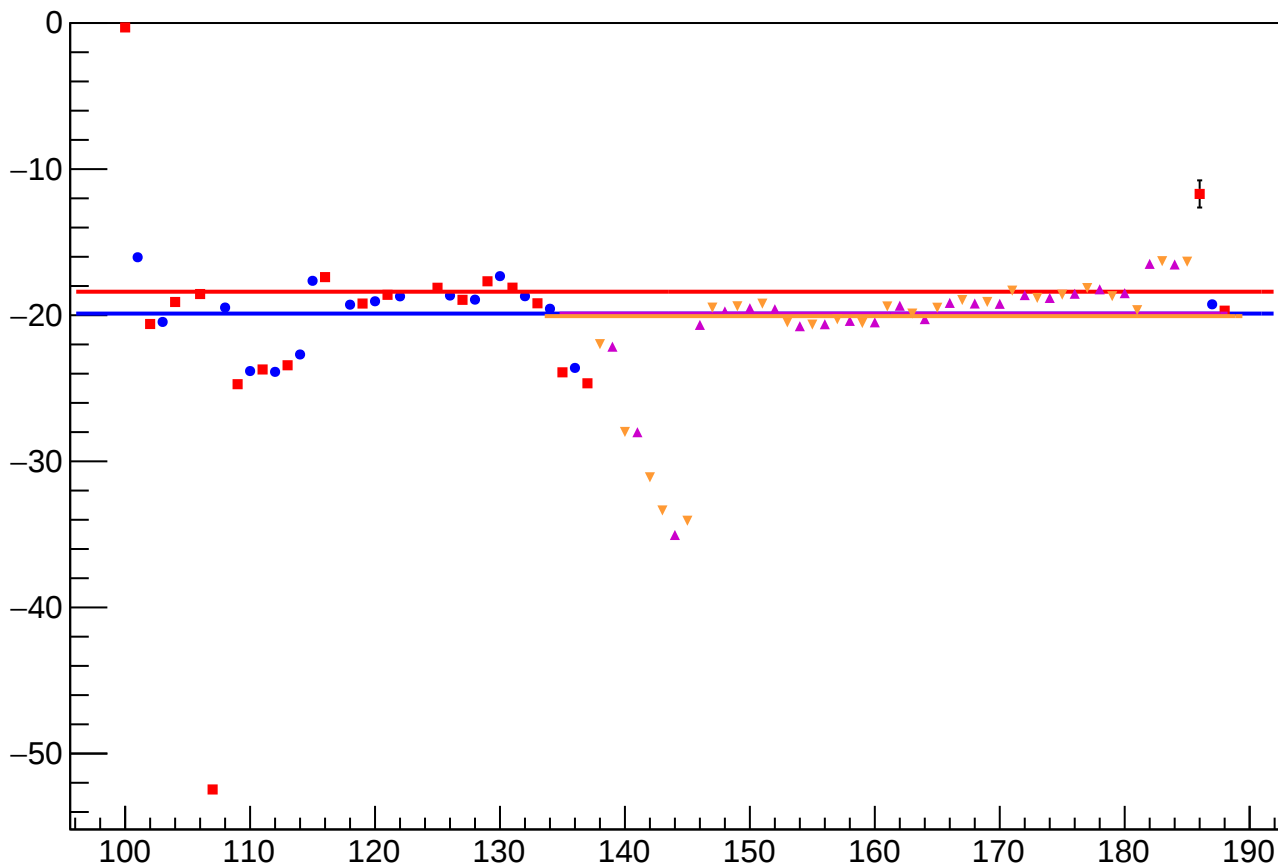
Right: 4.185 ± 0.179 χ^2/NDF : 1127.3/36

In: 7.400 ± 0.141 χ^2/NDF : 1142.0/39

Out: 7.048 ± 0.140 χ^2/NDF : 1086.4/44

All: 7.223 ± 0.100 χ^2/NDF : 2231.6/84

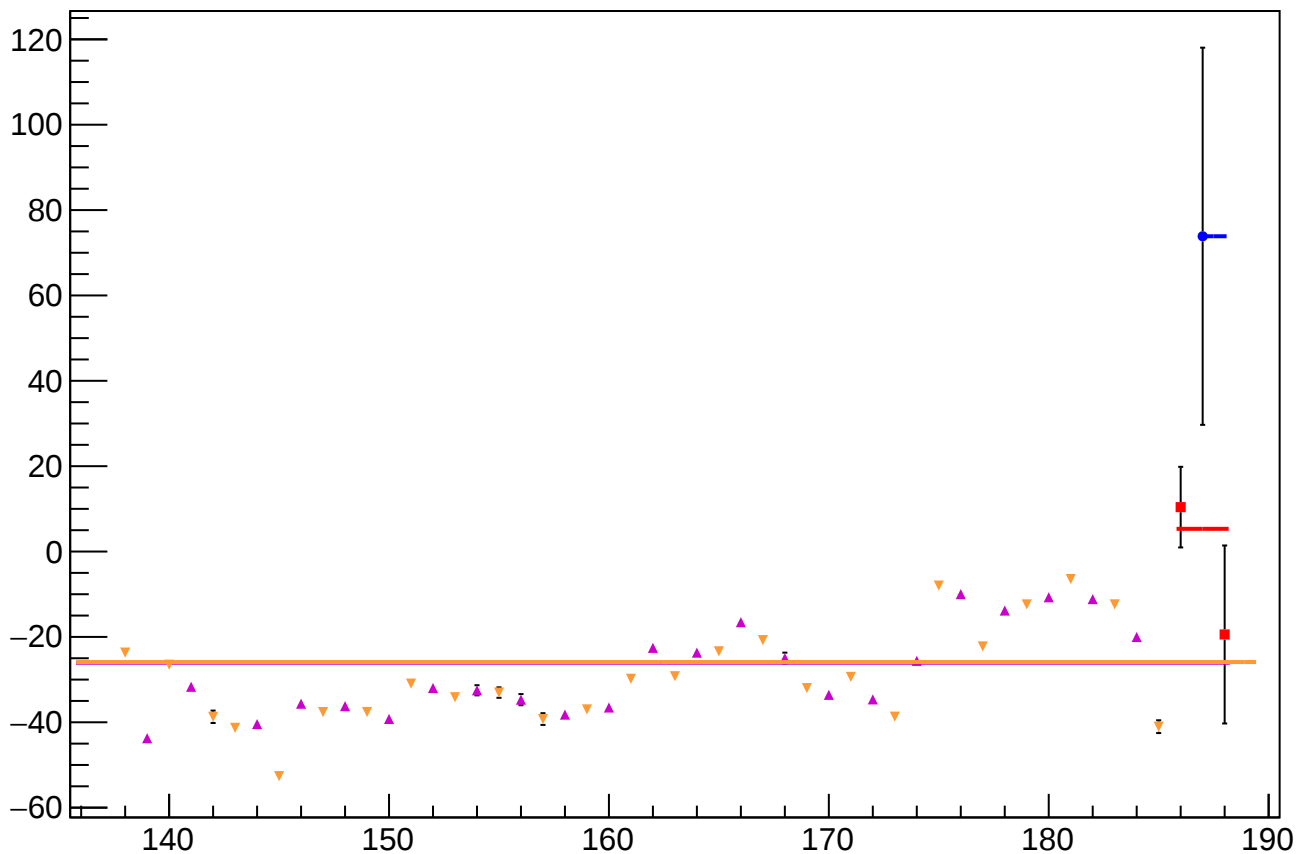
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.887 ± 0.016 $\chi^2/\text{NDF}: 26015.4/16$
 Left Out: -20.061 ± 0.008 $\chi^2/\text{NDF}: 185580.2/24$
 Right Out: -18.390 ± 0.015 $\chi^2/\text{NDF}: 301143.1/19$
 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: -19.092 ± 0.011 $\chi^2/\text{NDF}: 332030.2/36$
 In: -19.890 ± 0.007 $\chi^2/\text{NDF}: 170070.7/39$
 Out: -19.689 ± 0.007 $\chi^2/\text{NDF}: 496782.6/44$
 All: -19.788 ± 0.005 $\chi^2/\text{NDF}: 667269.2/84$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



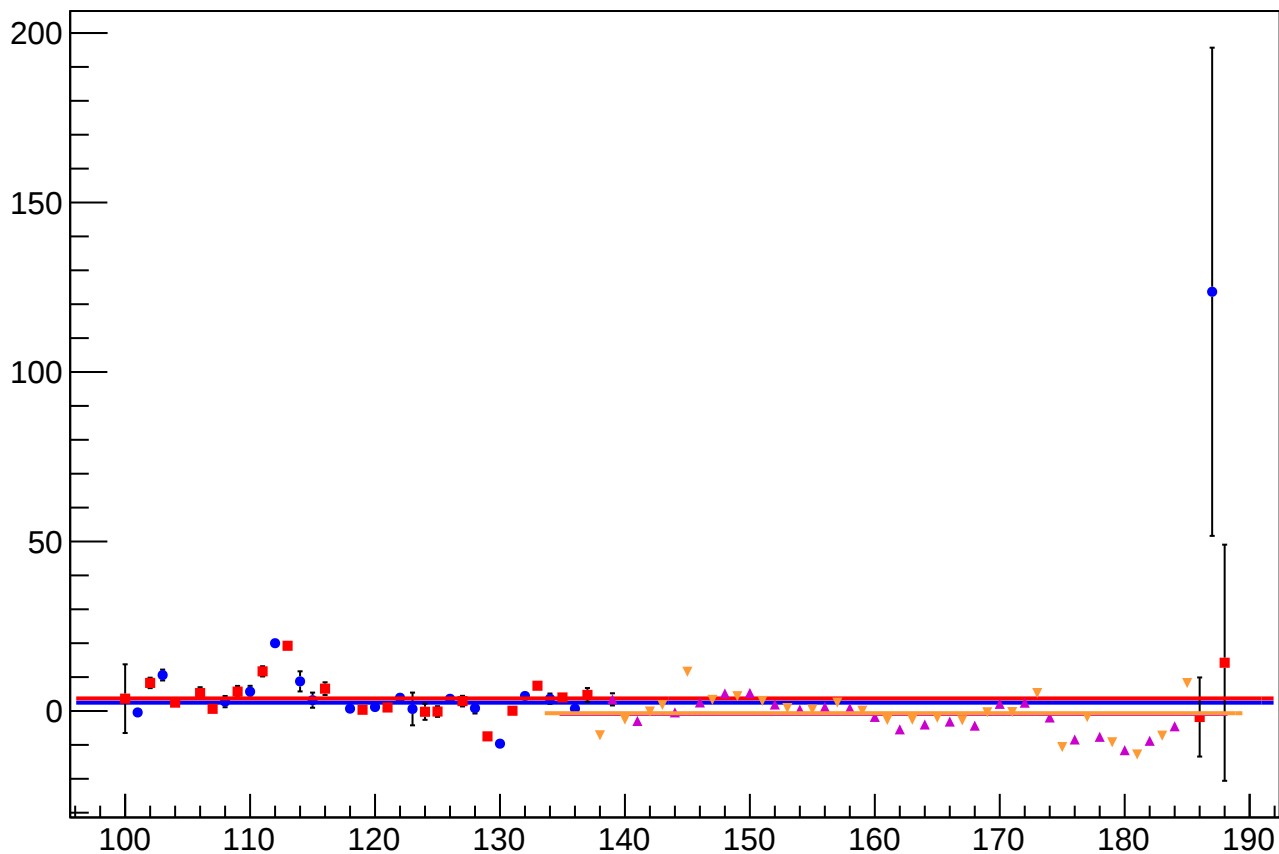
Right In: 73.867 $\pm$ 44.183 χ^2/NDF : 0.0/0
 Left Out: -25.884 $\pm$ 0.192 χ^2/NDF :4158.0/24
 Right Out: 5.323 $\pm$ 8.605 χ^2/NDF : 1.7/1
 Left In: -26.052 $\pm$ 0.195 χ^2/NDF :3279.5/22

Left: -25.967 $\pm$ 0.137 χ^2/NDF : 7437.8/47
 Right: 7.828 $\pm$ 8.446 χ^2/NDF : 4.0/2

In: -26.050 $\pm$ 0.195 χ^2/NDF :3284.6/23
 Out: -25.869 $\pm$ 0.192 χ^2/NDF :4172.8/26

All: -25.958 $\pm$ 0.137 χ^2/NDF : 7457.9/50

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.457 ± 0.315 χ^2/NDF : 297.1/17

Left Out: -0.654 ± 0.146 χ^2/NDF : 1320.8/24

Right Out: 3.710 ± 0.327 χ^2/NDF : 269.4/20

Left In: -0.863 ± 0.150 χ^2/NDF : 1066.5/22

Left: -0.756 ± 0.105 χ^2/NDF : 2388.3/47

Right: 3.060 ± 0.227 χ^2/NDF : 574.2/38

In: -0.246 ± 0.136 χ^2/NDF : 1454.2/40

Out: 0.074 ± 0.133 χ^2/NDF : 1739.0/45

All: -0.083 ± 0.095 χ^2/NDF : 3196.0/86

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.531 $\pm$ 0.577 χ^2 /NDF: 2259.6/17

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.517 $\pm$ 0.591 χ^2 /NDF: 1626.6/20

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

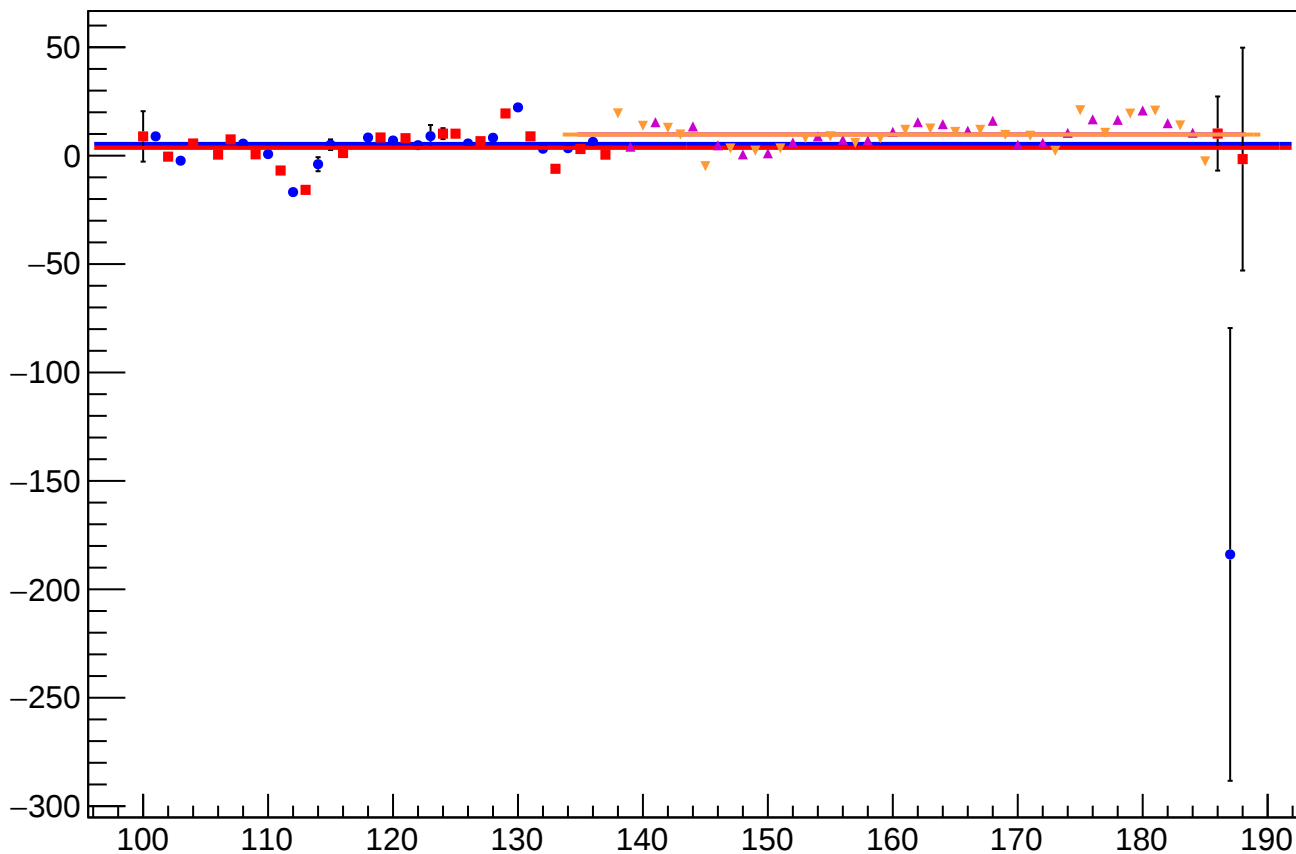
Right: 78.965 $\pm$ 0.413 χ^2 /NDF: 3922.6/38

In: 57.240 $\pm$ 0.183 χ^2 /NDF: 7206.5/40

Out: 57.610 $\pm$ 0.182 χ^2 /NDF: 8016.0/45

All: 57.426 $\pm$ 0.129 χ^2 /NDF: 15224.6/86

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.426 $\pm$ 0.361 χ^2 /NDF: 389.0/17

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.585 $\pm$ 0.375 χ^2 /NDF: 421.8/20

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

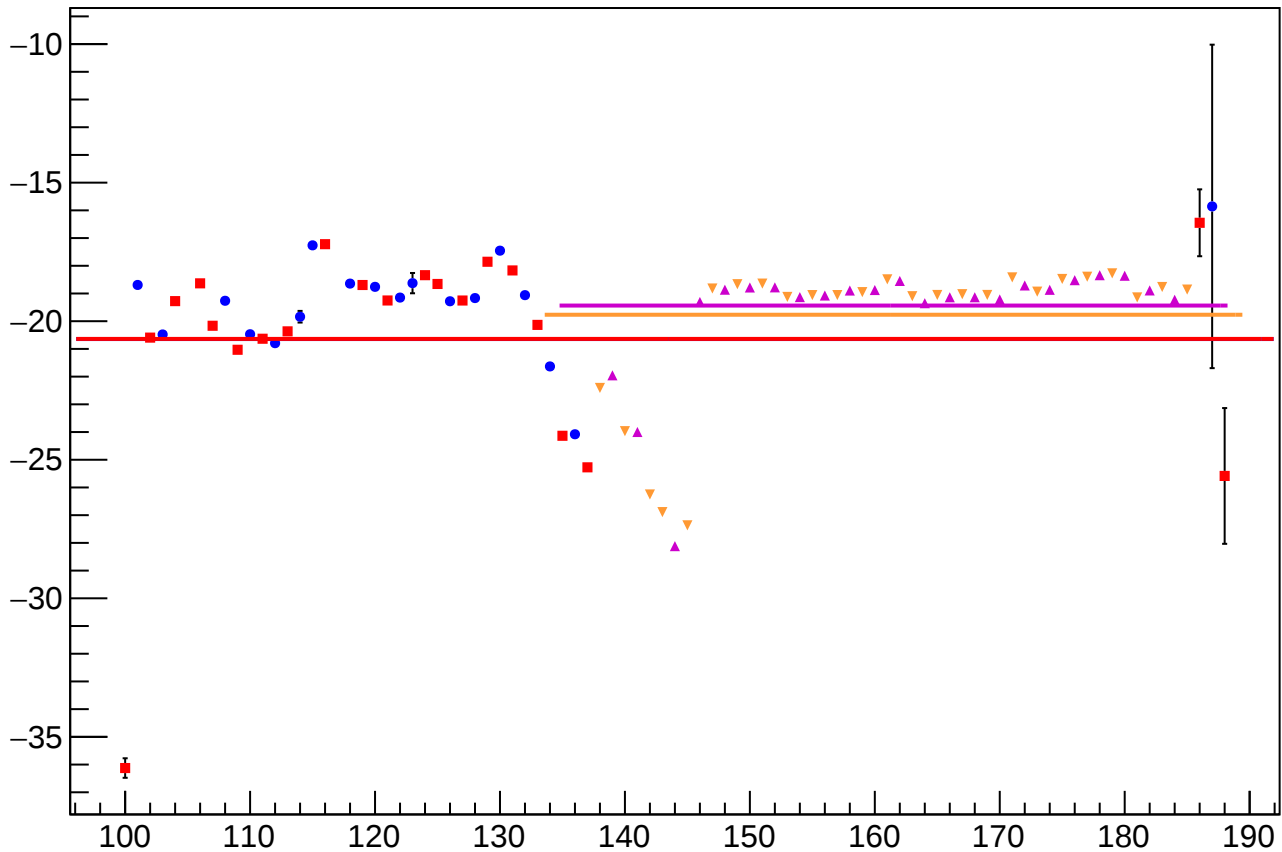
Right: 4.542 $\pm$ 0.260 χ^2 /NDF: 823.2/38

In: 8.996 $\pm$ 0.155 χ^2 /NDF:1667.7/40

Out: 8.713 $\pm$ 0.153 χ^2 /NDF:2095.8/45

All: 8.853 $\pm$ 0.109 χ^2 /NDF: 3765.2/86

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12424.9/17

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.639 $\pm$ 0.019 χ^2 /NDF: 13802.0/20

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

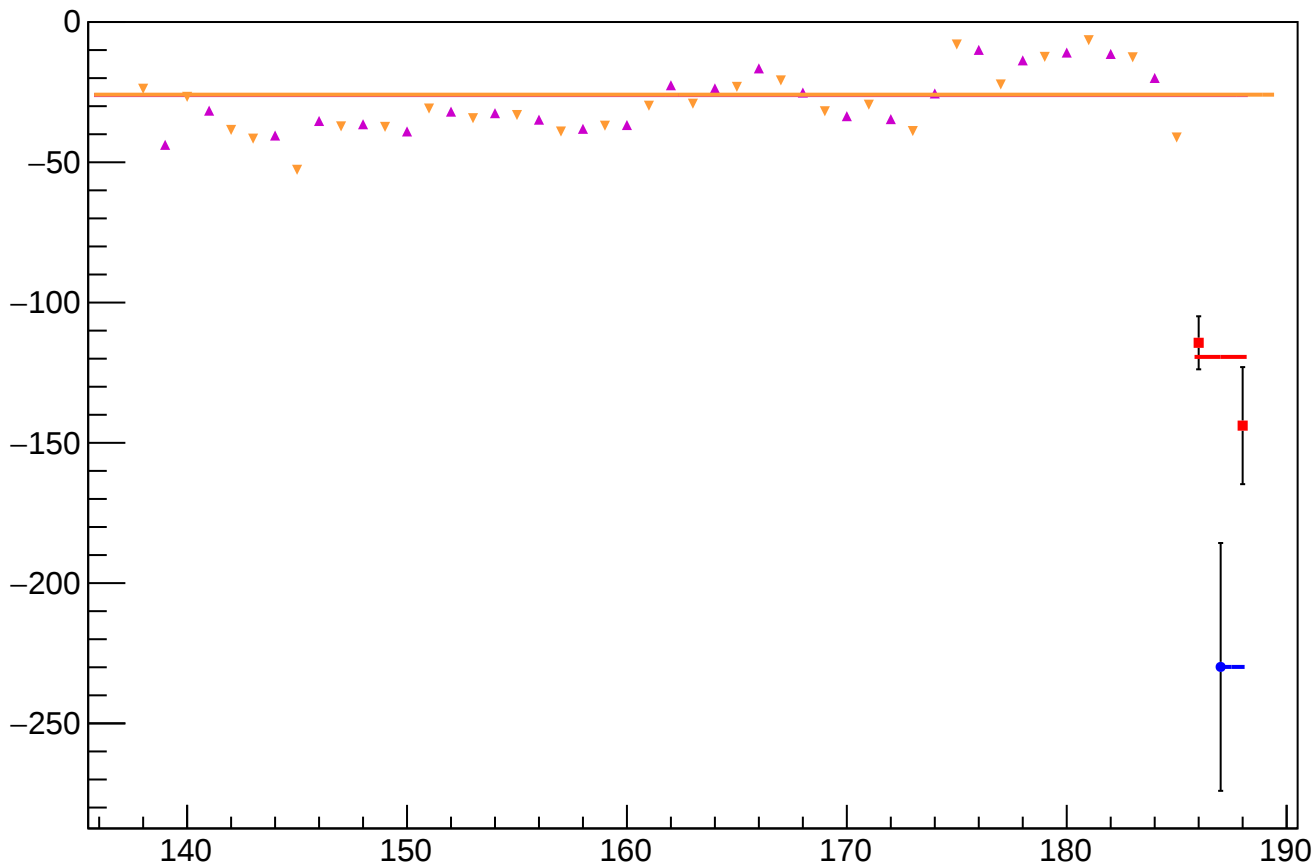
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26226.9/38

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68932.0/40

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107143.2/45

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176804.3/86

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -229.874+/-44.169 χ^2/NDF : 0.0/0

Left Out: -25.899+/-0.192 χ^2/NDF : 4127.5/24

Right Out: -119.370+/-8.611 χ^2/NDF : 1.7/1

Left In: -26.046+/-0.195 χ^2/NDF : 3246.7/22

Left: -25.971+/-0.137 χ^2/NDF : 7374.6/47

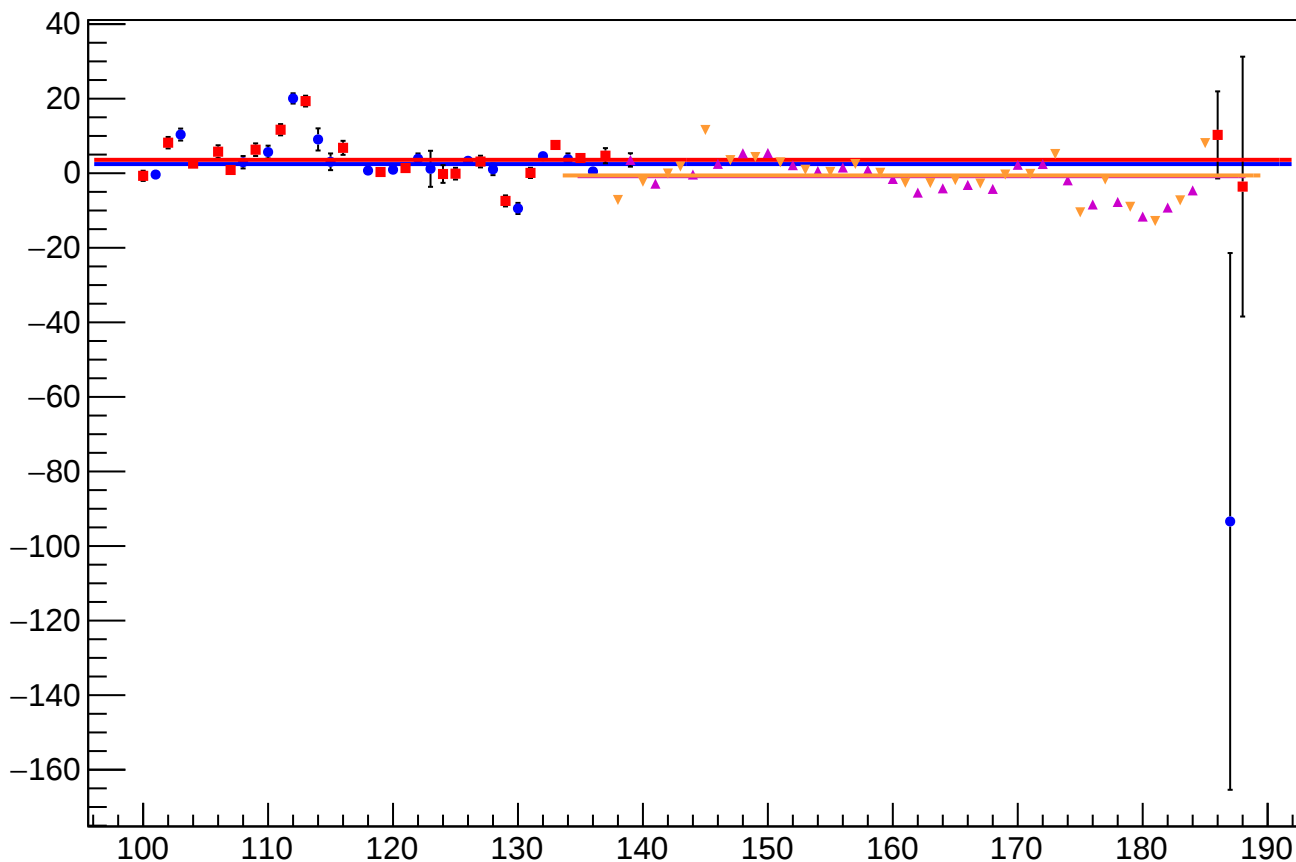
Right: -123.416+/-8.452 χ^2/NDF : 7.7/2

In: -26.050+/-0.195 χ^2/NDF : 3268.0/23

Out: -25.945+/-0.192 χ^2/NDF : 4247.0/26

All: -25.997+/-0.137 χ^2/NDF : 7515.1/50

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.453+/-0.315 χ^2/NDF : 294.1/17

Left Out: -0.596+/-0.146 χ^2/NDF :1310.7/24

Right Out: 3.596+/-0.318 χ^2/NDF : 280.4/20

Left In: -0.795+/-0.151 χ^2/NDF :1106.3/22

Left: -0.693+/-0.105 χ^2/NDF : 2417.9/47

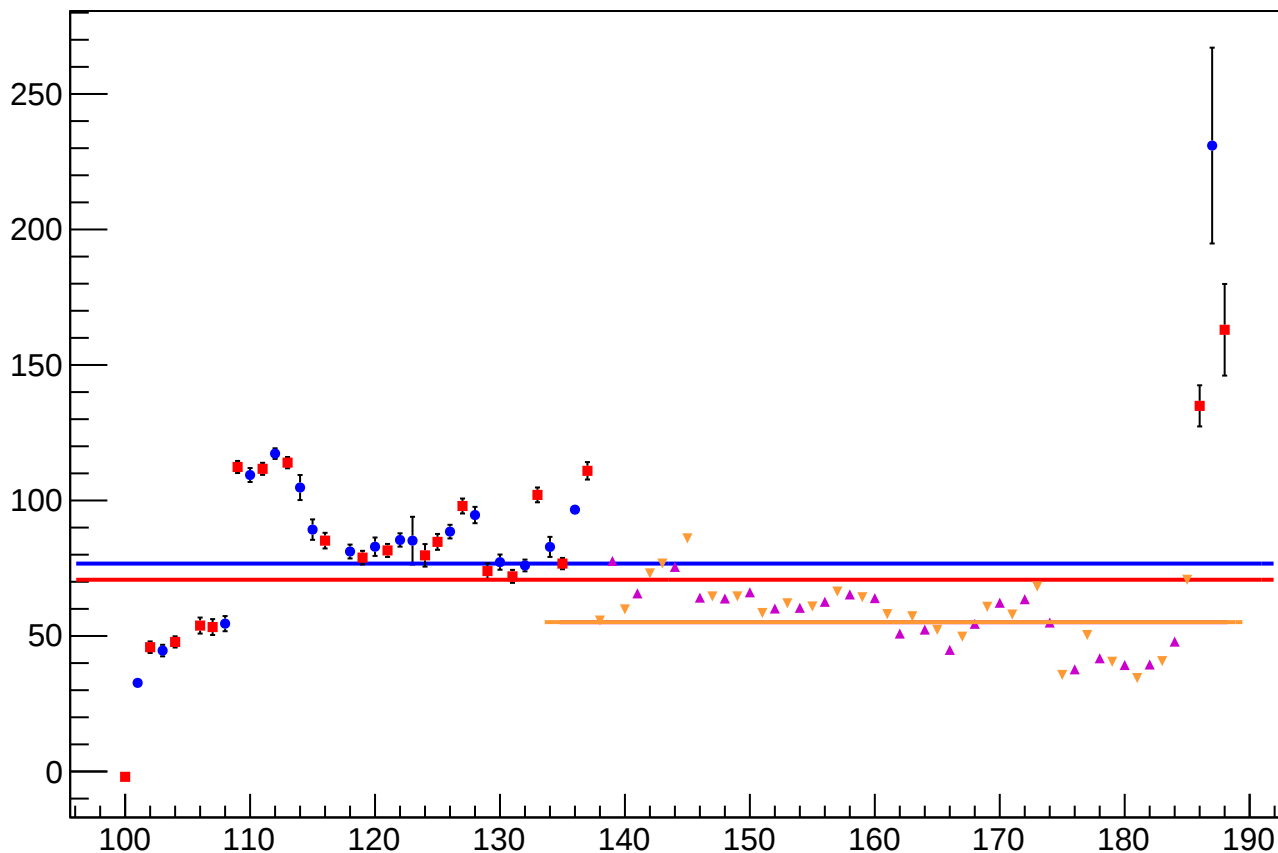
Right: 3.019+/-0.224 χ^2/NDF : 581.0/38

In: -0.191+/-0.136 χ^2/NDF :1486.9/40

Out: 0.136+/-0.133 χ^2/NDF :1734.6/45

All: -0.024+/-0.095 χ^2/NDF : 3224.5/86

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.714 $\pm$ 0.577 χ^2/NDF : 2283.0/17

Left Out: 55.111 $\pm$ 0.192 χ^2/NDF :4560.2/24

Right Out: 70.752 $\pm$ 0.549 χ^2/NDF : 4489.1/20

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

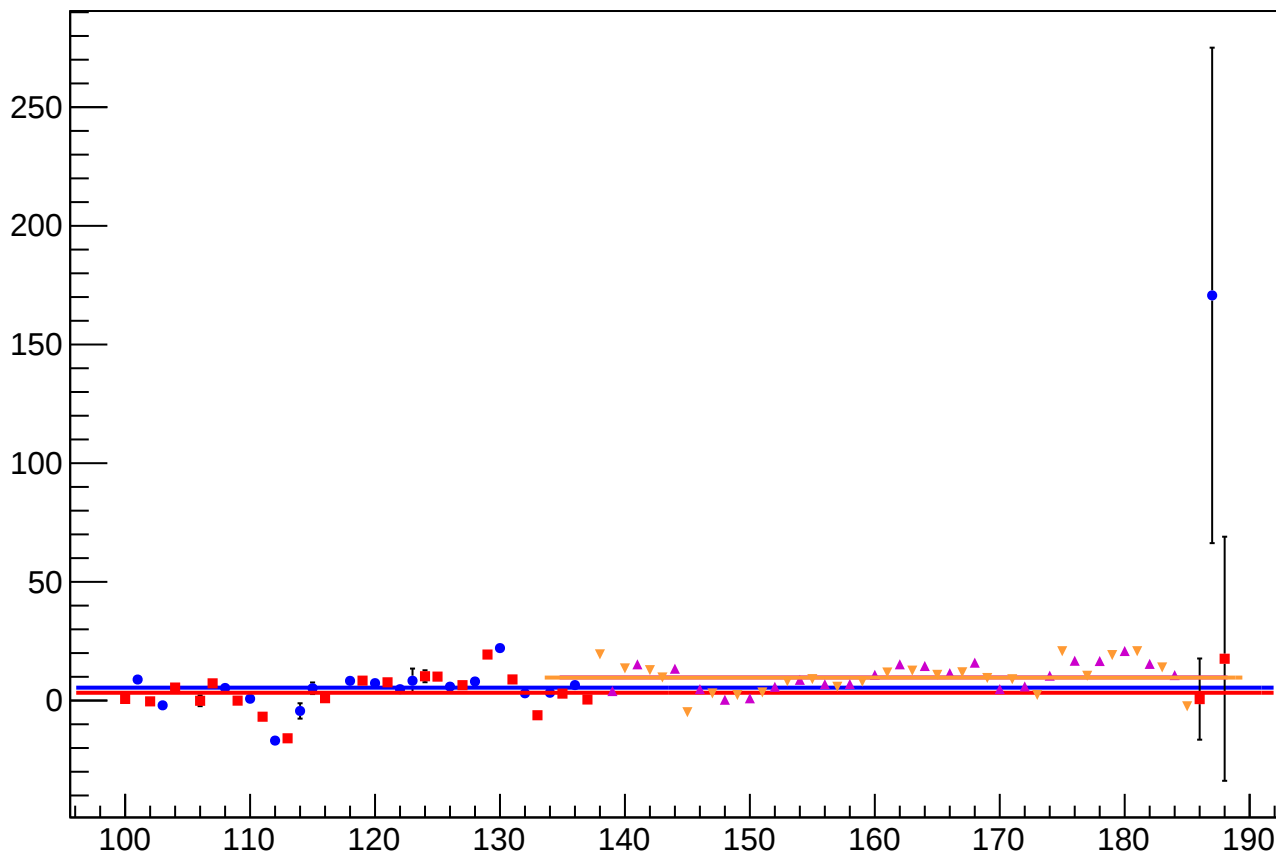
Right: 73.583 $\pm$ 0.398 χ^2/NDF : 6828.2/38

In: 57.281 $\pm$ 0.184 χ^2/NDF :7209.0/40

Out: 56.810 $\pm$ 0.181 χ^2/NDF :9773.3/45

All: 57.042 $\pm$ 0.129 χ^2/NDF : 16985.6/86

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.430 $\pm$ 0.361 χ^2 /NDF: 386.7/17

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.279 $\pm$ 0.366 χ^2 /NDF: 425.1/20

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

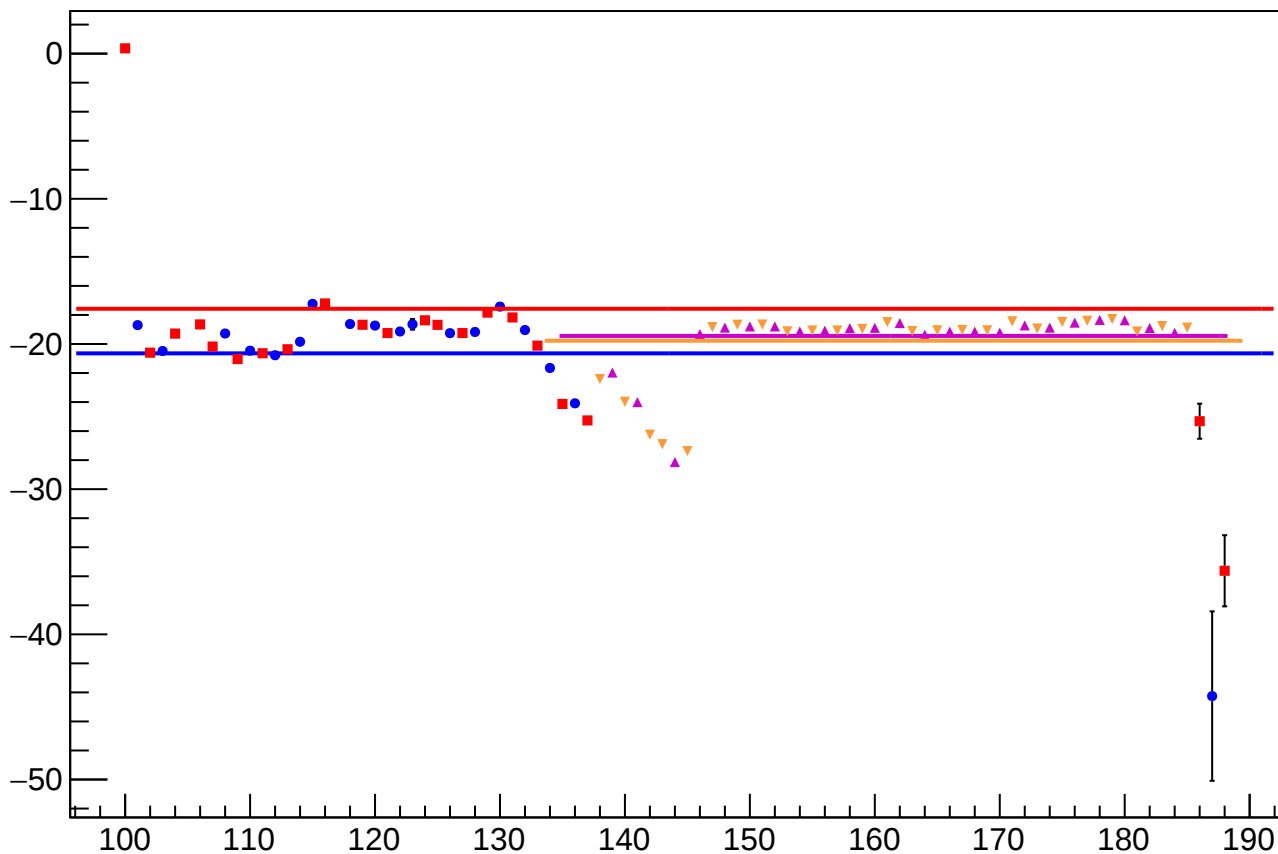
Right: 4.368 $\pm$ 0.257 χ^2 /NDF: 829.4/38

In: 8.943 $\pm$ 0.155 χ^2 /NDF:1693.9/40

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2119.4/45

All: 8.749 $\pm$ 0.109 χ^2 /NDF: 3816.3/86

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.645 $\pm$ 0.019 χ^2 /NDF: 12479.1/17

Left Out: -19.775 $\pm$ 0.008 χ^2 /NDF: 91510.1/24

Right Out: -17.574 $\pm$ 0.018 χ^2 /NDF: 178413.4/20

Left In: -19.445 $\pm$ 0.008 χ^2 /NDF: 53124.1/22

Left: -19.611 $\pm$ 0.006 χ^2 /NDF: 145502.5/47

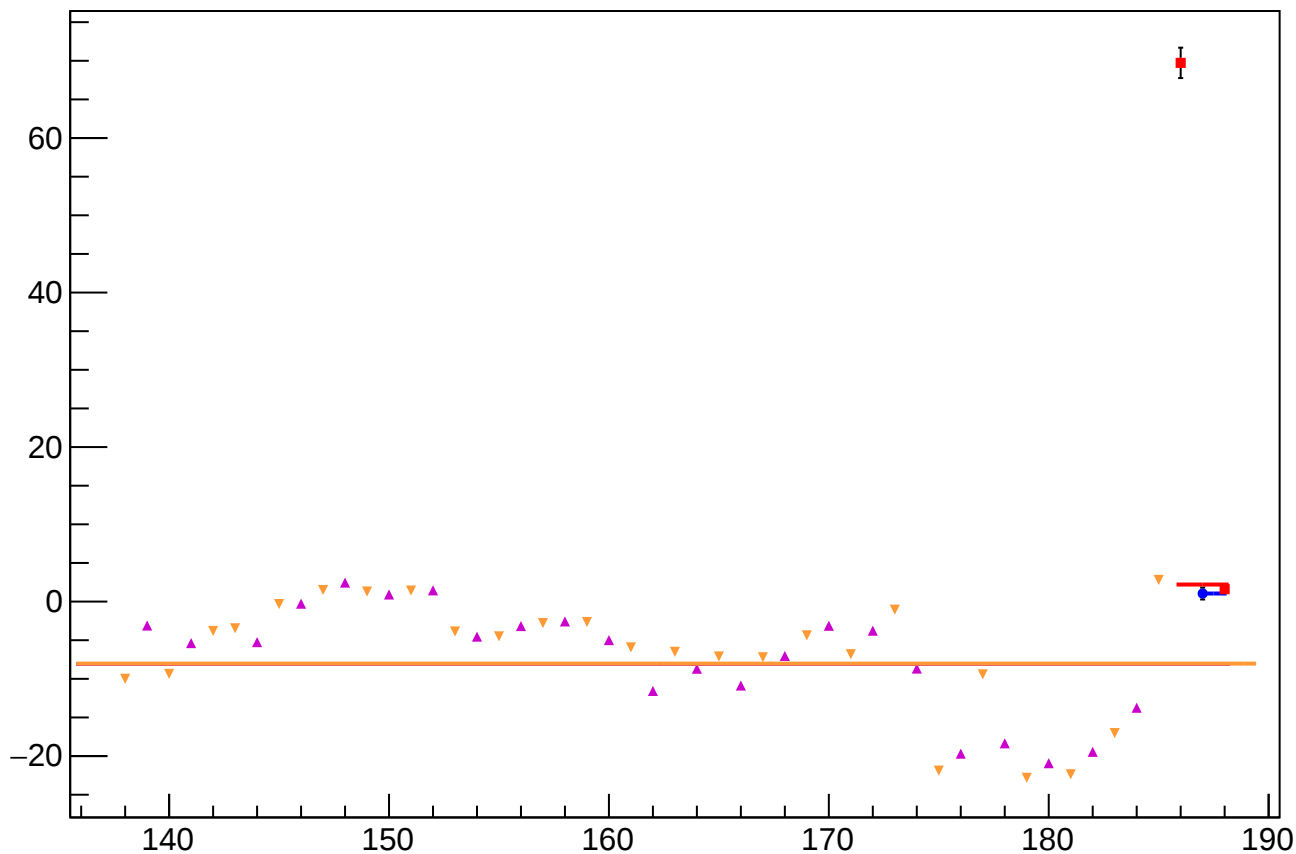
Right: -19.001 $\pm$ 0.013 χ^2 /NDF: 204359.5/38

In: -19.618 $\pm$ 0.007 χ^2 /NDF: 68892.6/40

Out: -19.422 $\pm$ 0.007 χ^2 /NDF: 282414.3/45

All: -19.518 $\pm$ 0.005 χ^2 /NDF: 351669.7/86

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



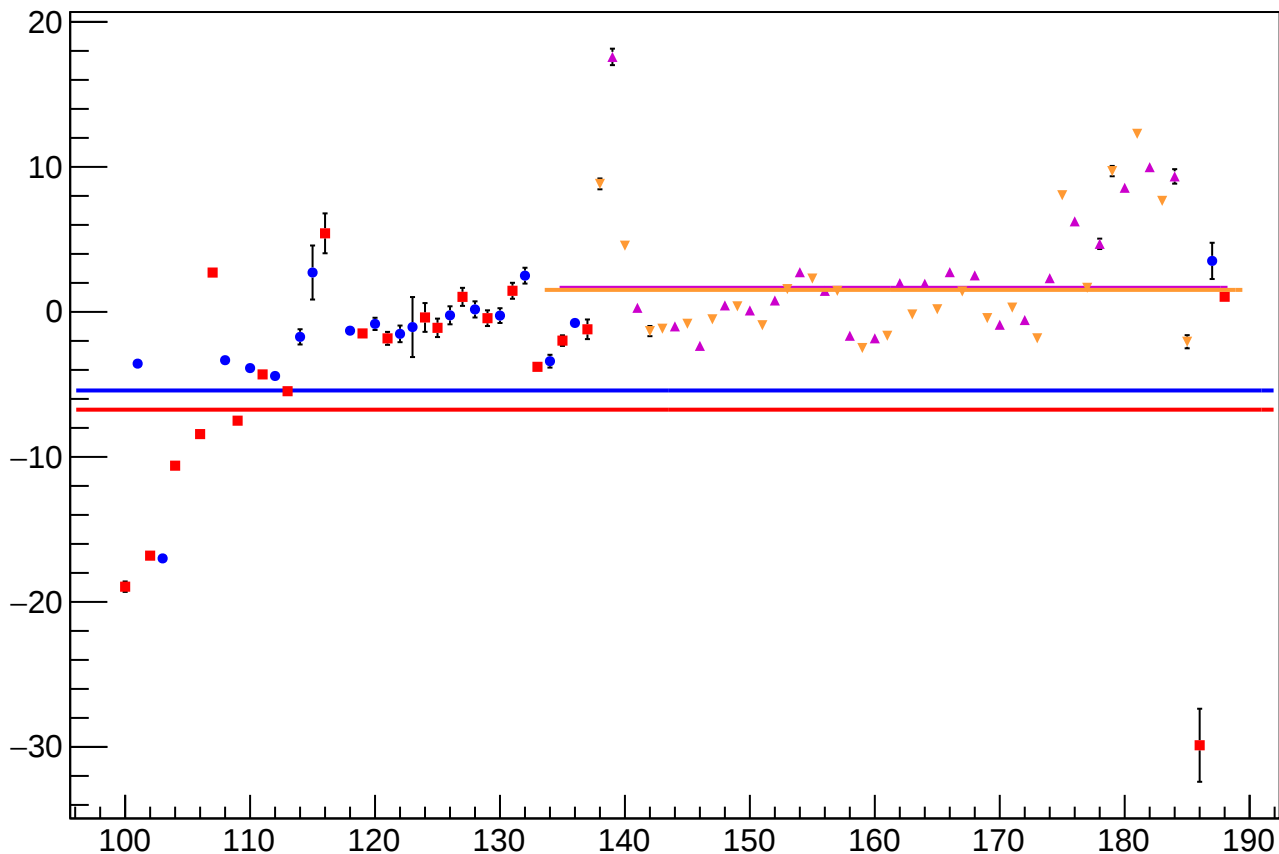
Right In: 1.044+/-0.771 χ^2/NDF : 0.0/0
 Left Out: -8.034+/-0.070 χ^2/NDF :12568.0/24
 Right Out: 2.206+/-0.185 χ^2/NDF : 1189.1/1
 Left In: -8.078+/-0.072 χ^2/NDF :10541.6/22

Left: -8.055+/-0.050 χ^2/NDF : 23109.8/47
 Right: 2.143+/-0.179 χ^2/NDF : 1191.2/2

In: -7.999+/-0.072 χ^2/NDF :10680.3/23
 Out: -6.736+/-0.066 χ^2/NDF :16445.5/26

All: -7.314+/-0.048 χ^2/NDF : 27294.6/50

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.418 ± 0.055 χ^2/NDF : 9277.8/17

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -6.742 ± 0.058 χ^2/NDF : 13172.9/20

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

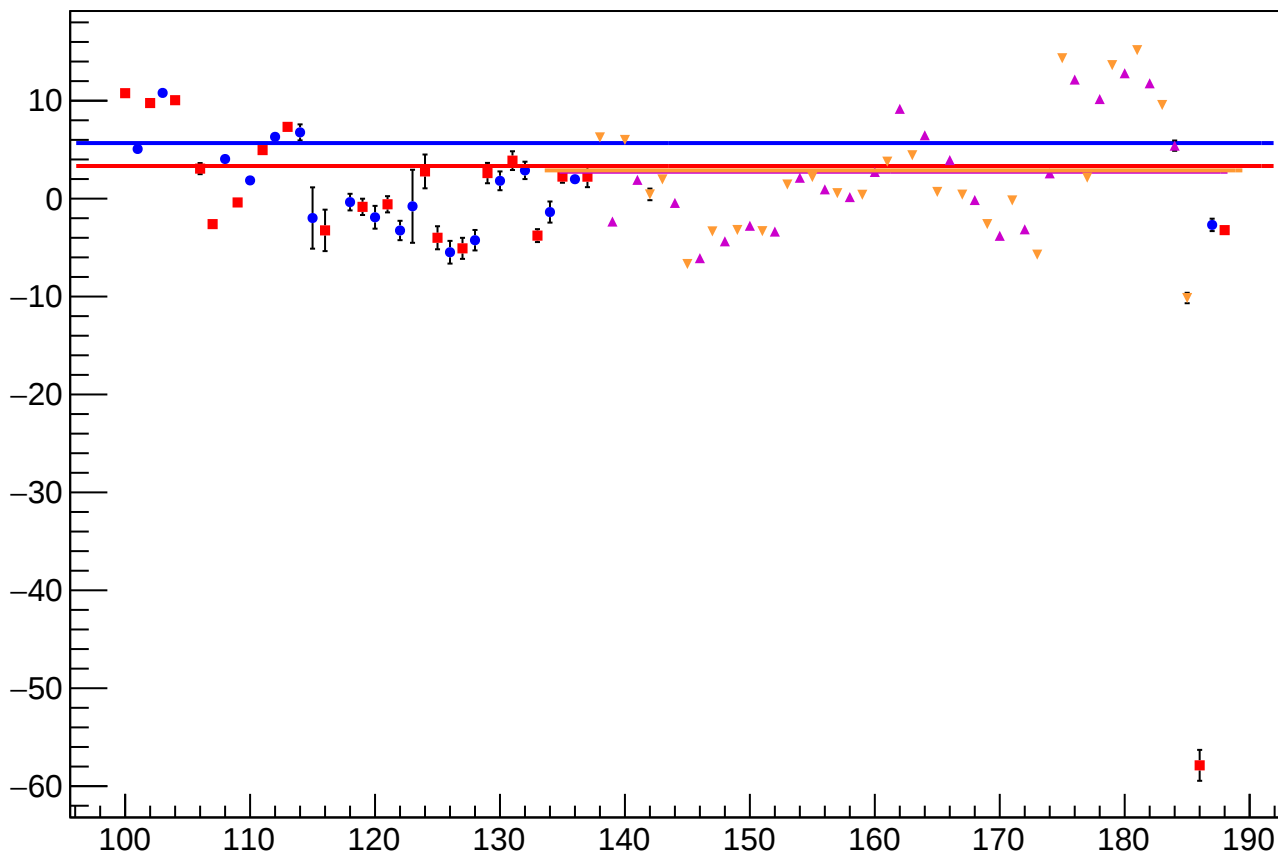
Right: -6.045 ± 0.040 χ^2/NDF : 22727.0/38

In: -1.988 ± 0.039 χ^2/NDF : 21388.2/40

Out: -2.361 ± 0.040 χ^2/NDF : 28863.2/45

All: -2.174 ± 0.028 χ^2/NDF : 50295.9/86

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.674 $\pm$ 0.089 χ^2 /NDF: 1613.6/17

Left Out: 2.884 $\pm$ 0.070 χ^2 /NDF:8893.2/24

Right Out: 3.332 $\pm$ 0.079 χ^2 /NDF: 6913.0/20

Left In: 2.745 $\pm$ 0.071 χ^2 /NDF:7183.1/22

Left: 2.816 $\pm$ 0.050 χ^2 /NDF: 16078.2/47

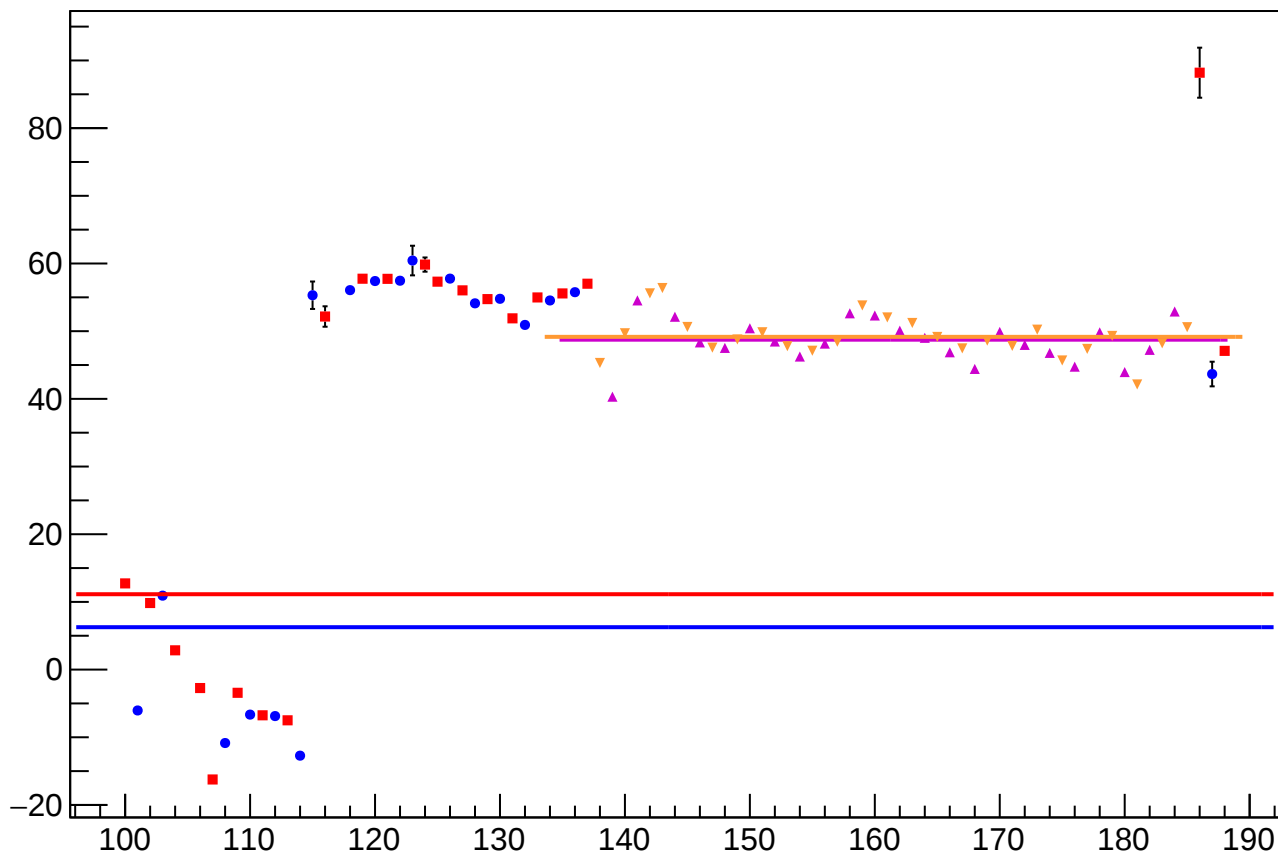
Right: 4.370 $\pm$ 0.059 χ^2 /NDF: 8913.9/38

In: 3.896 $\pm$ 0.056 χ^2 /NDF:9457.1/40

Out: 3.081 $\pm$ 0.053 χ^2 /NDF:15824.1/45

All: 3.465 $\pm$ 0.038 χ^2 /NDF: 25394.5/86

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.264 ± 0.065 $\chi^2/\text{NDF}: 121023.0/17$

Left Out: 49.163 ± 0.062 $\chi^2/\text{NDF}: 2259.9/24$

Right Out: 11.136 ± 0.069 $\chi^2/\text{NDF}: 130301.9/20$

Left In: 48.744 ± 0.064 $\chi^2/\text{NDF}: 2097.7/22$

Left: 48.960 ± 0.044 $\chi^2/\text{NDF}: 4380.0/47$

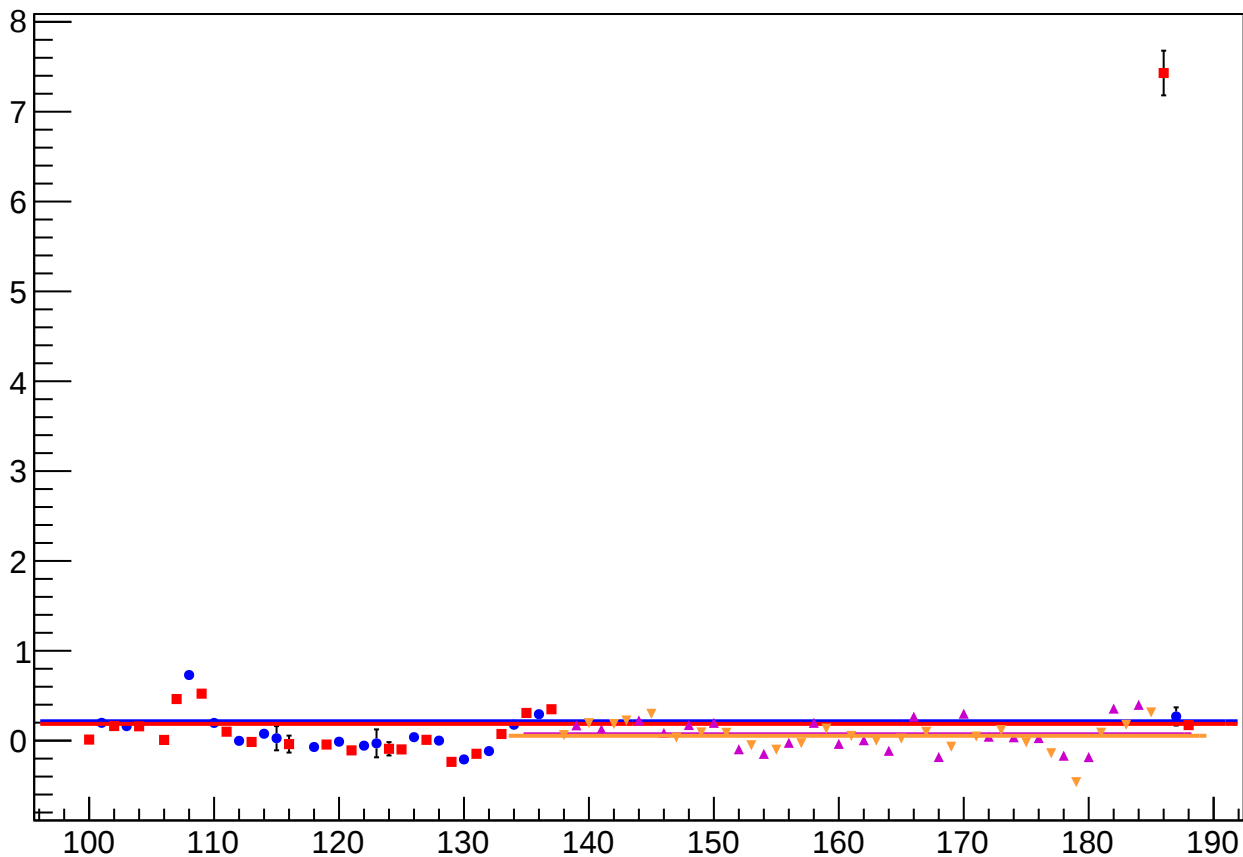
Right: 8.557 ± 0.047 $\chi^2/\text{NDF}: 253983.3/38$

In: 27.852 ± 0.045 $\chi^2/\text{NDF}: 341382.3/40$

Out: 32.183 ± 0.046 $\chi^2/\text{NDF}: 301954.3/45$

All: 29.995 ± 0.032 $\chi^2/\text{NDF}: 647829.0/86$

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.215+/-0.003 χ^2/NDF : 3924.2/17

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.186+/-0.003 χ^2/NDF : 3565.0/20

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

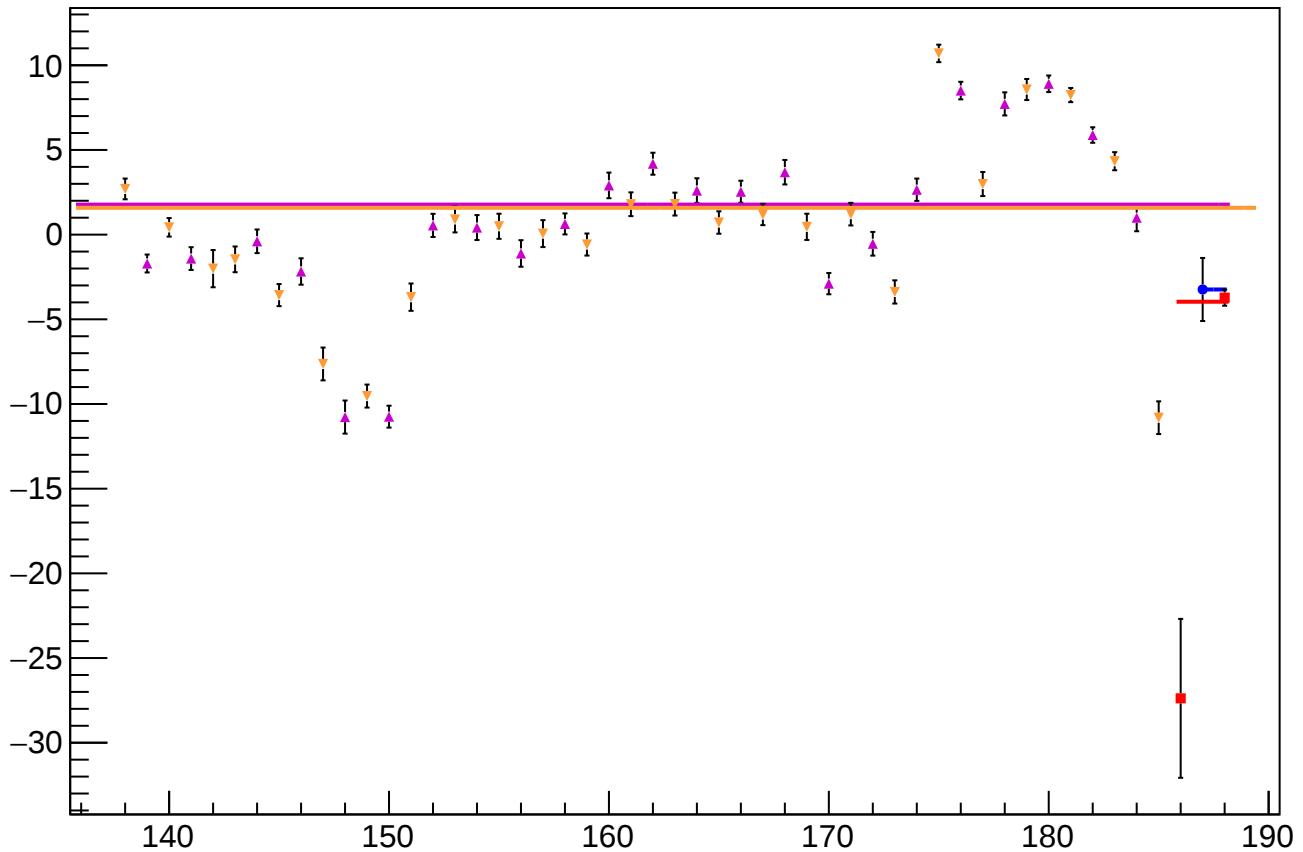
Right: 0.200+/-0.002 χ^2/NDF : 7545.6/38

In: 0.145+/-0.002 χ^2/NDF : 8482.1/40

Out: 0.124+/-0.002 χ^2/NDF : 7112.3/45

All: 0.134+/-0.001 χ^2/NDF : 15651.5/86

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.238 ± 1.863 χ^2/NDF : 0.0/0

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -3.962 ± 0.475 χ^2/NDF : 25.2/1

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

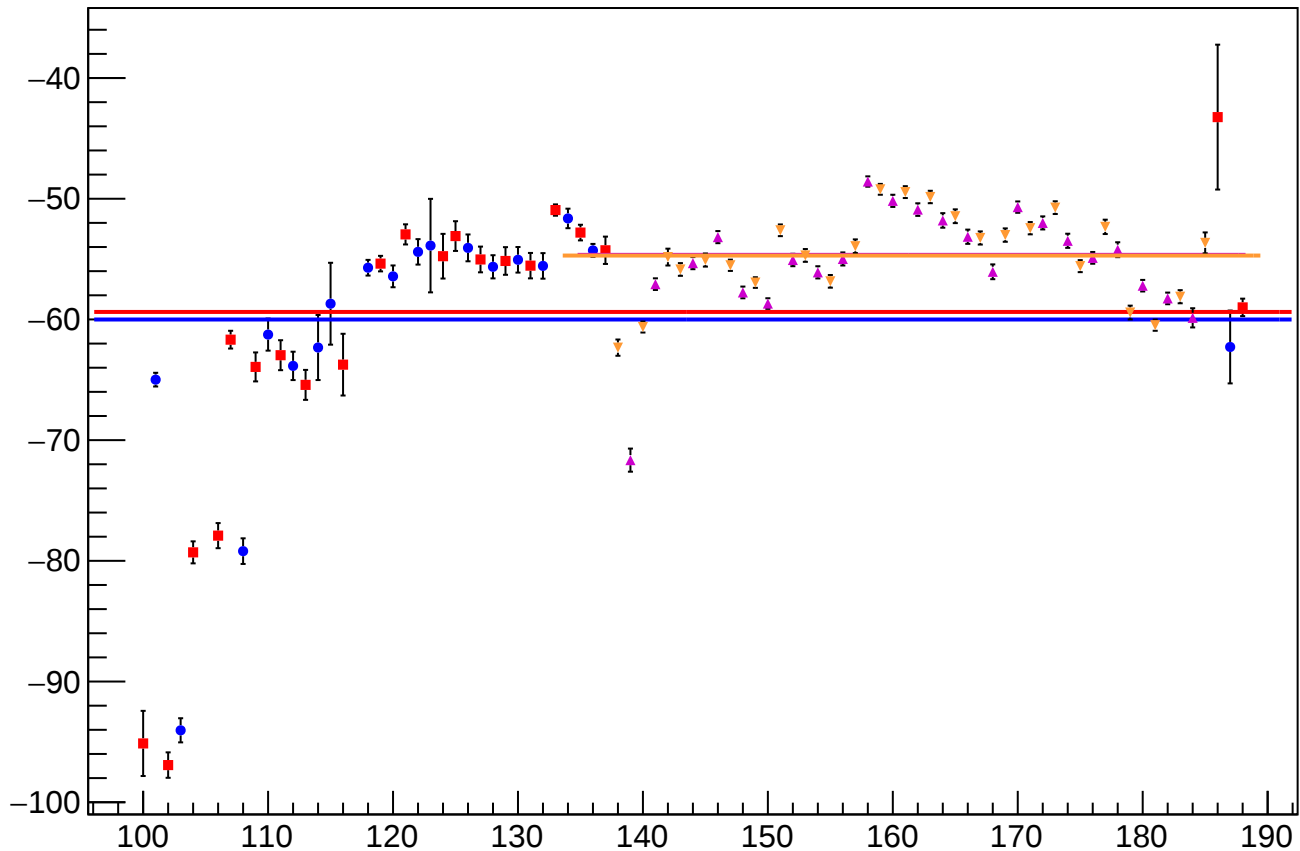
Right: -3.918 ± 0.460 χ^2/NDF : 25.3/2

In: 1.747 ± 0.135 χ^2/NDF : 1304.5/23

Out: 1.182 ± 0.128 χ^2/NDF : 1610.7/26

All: 1.449 ± 0.093 χ^2/NDF : 2924.5/50

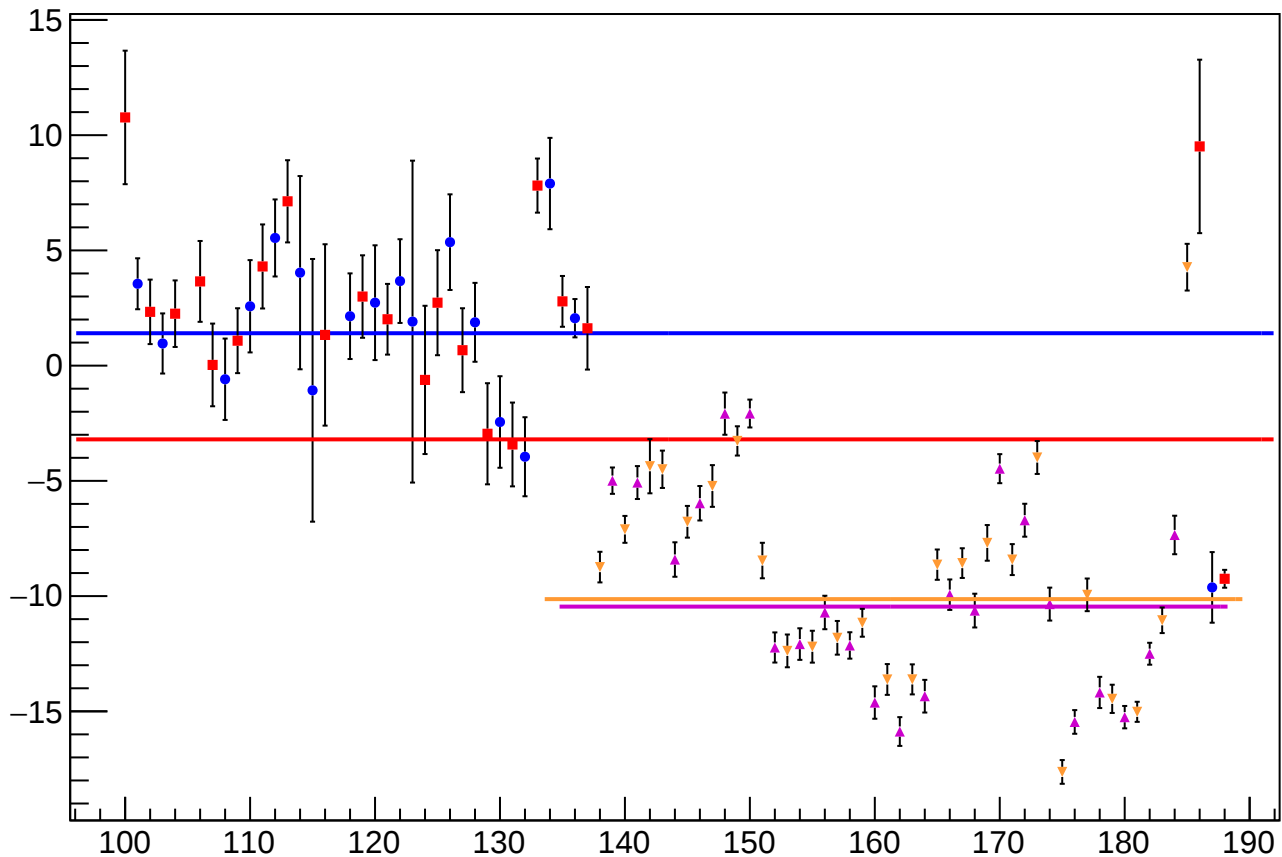
reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -60.006 ± 0.225 χ^2/NDF : 1974.0/17
 Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24
 Right Out: -59.379 ± 0.203 χ^2/NDF : 2927.7/20
 Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47
 Right: -59.661 ± 0.151 χ^2/NDF : 4906.0/38
 In: -55.683 ± 0.099 χ^2/NDF : 3510.1/40
 Out: -55.700 ± 0.094 χ^2/NDF : 4468.8/45
 All: -55.692 ± 0.068 χ^2/NDF : 7979.0/86

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.406 ± 0.393 $\chi^2/\text{NDF}: 94.6/17$

Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$

Right Out: -3.200 ± 0.274 $\chi^2/\text{NDF}: 548.1/20$

Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$

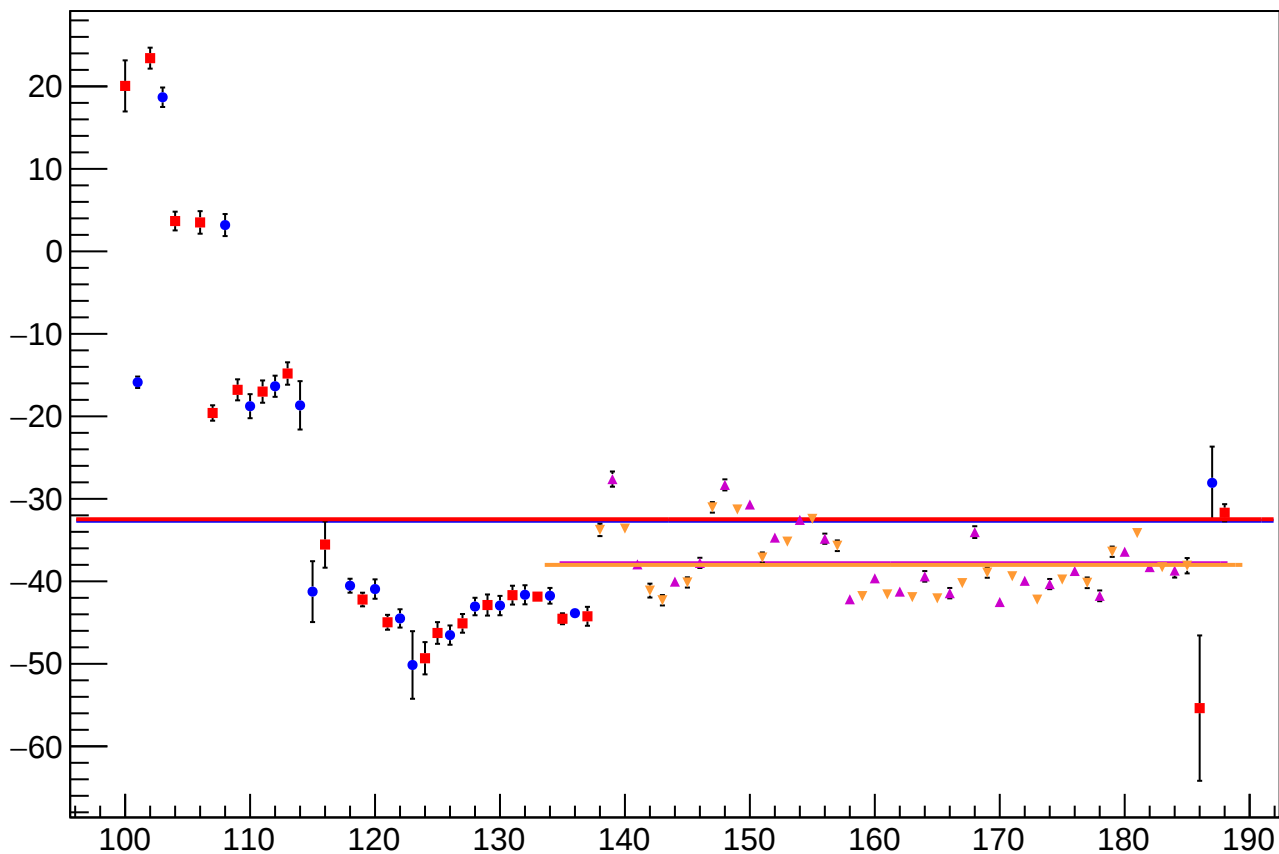
Right: -1.694 ± 0.224 $\chi^2/\text{NDF}: 735.4/38$

In: -9.207 ± 0.127 $\chi^2/\text{NDF}: 1914.4/40$

Out: -8.809 ± 0.119 $\chi^2/\text{NDF}: 2123.0/45$

All: -8.996 ± 0.087 $\chi^2/\text{NDF}: 4042.6/86$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -32.655 ± 0.256 χ^2/NDF : 4643.7/17

Left Out: -38.006 ± 0.119 χ^2/NDF : 946.0/24

Right Out: -32.475 ± 0.238 χ^2/NDF : 6050.3/20

Left In: -37.809 ± 0.122 χ^2/NDF : 1039.9/22

Left: -37.910 ± 0.085 χ^2/NDF : 1987.2/47

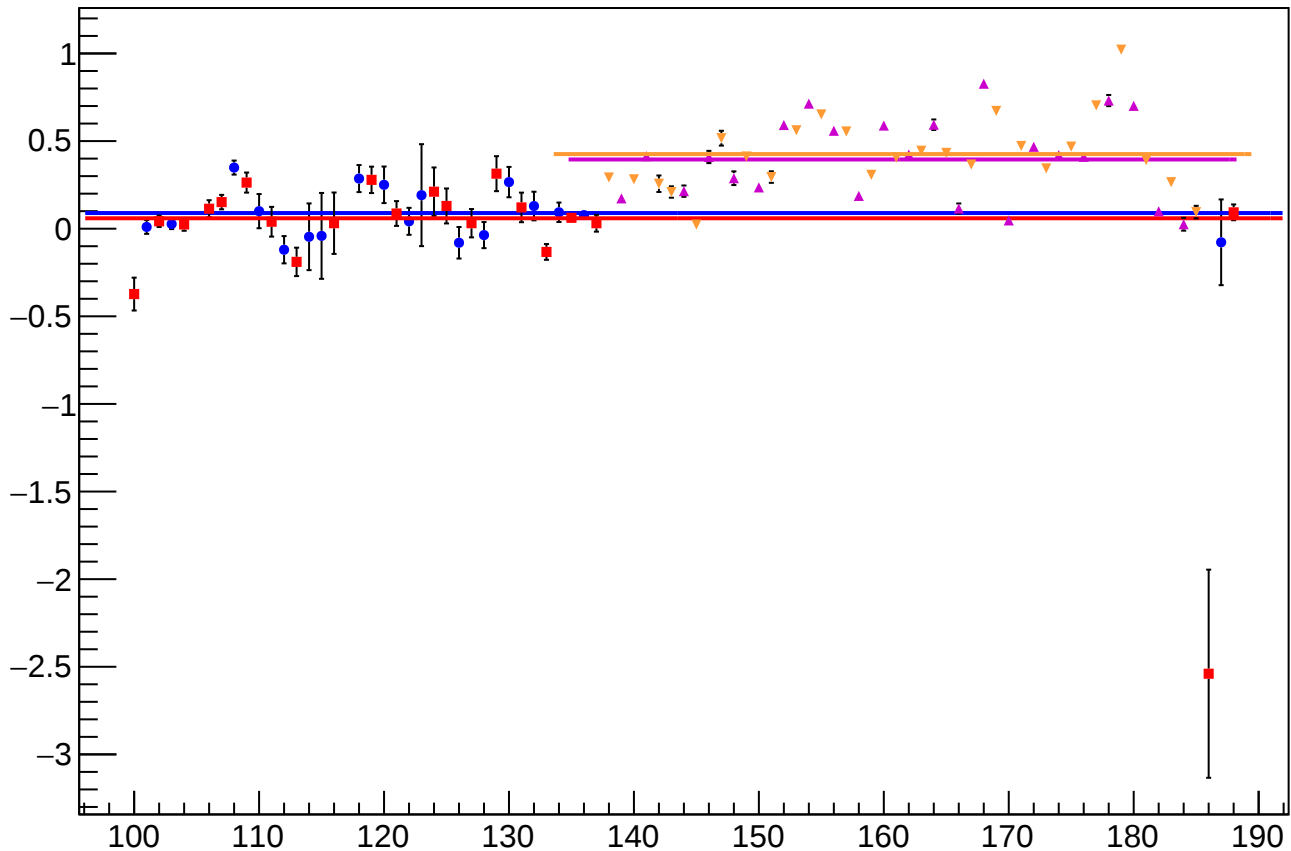
Right: -32.558 ± 0.174 χ^2/NDF : 10694.3/38

In: -36.849 ± 0.110 χ^2/NDF : 6014.4/40

Out: -36.902 ± 0.106 χ^2/NDF : 7429.5/45

All: -36.877 ± 0.077 χ^2/NDF : 13444.0/86

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.089 $\pm$ 0.013 χ^2 /NDF: 79.6/17

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.059 $\pm$ 0.012 χ^2 /NDF: 106.7/20

Left In: 0.395 $\pm$ 0.005 χ^2 /NDF:1798.2/22

Left: 0.411 $\pm$ 0.004 χ^2 /NDF: 3118.1/47

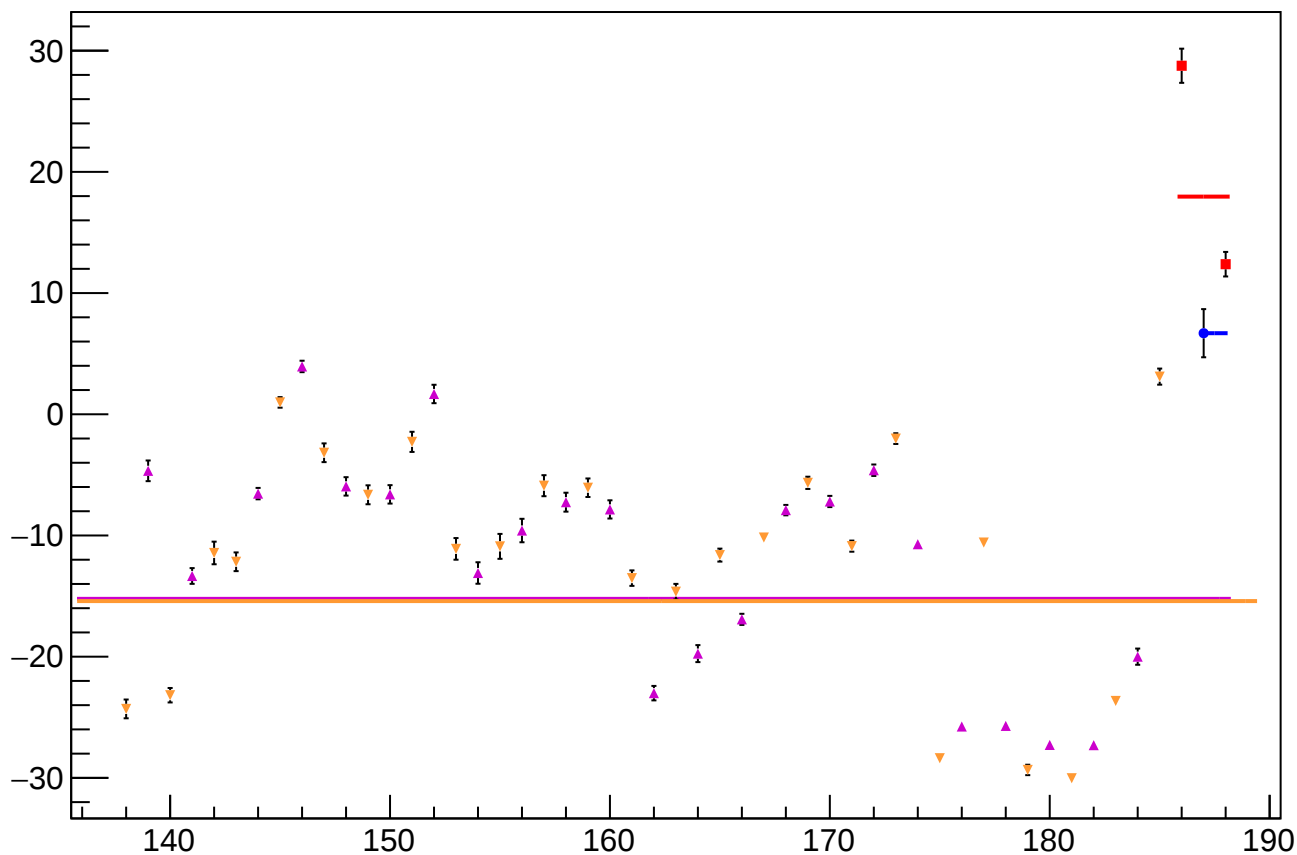
Right: 0.073 $\pm$ 0.009 χ^2 /NDF: 189.3/38

In: 0.348 $\pm$ 0.005 χ^2 /NDF:2365.6/40

Out: 0.362 $\pm$ 0.005 χ^2 /NDF:2213.7/45

All: 0.355 $\pm$ 0.003 χ^2 /NDF: 4583.5/86

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.689 ± 1.987 χ^2/NDF : 0.0/0

Left Out: -15.413 ± 0.105 χ^2/NDF : 10509.1/24

Right Out: 17.959 ± 0.823 χ^2/NDF : 89.0/1

Left In: -15.229 ± 0.107 χ^2/NDF : 8657.3/22

Left: -15.322 ± 0.075 χ^2/NDF : 19167.9/47

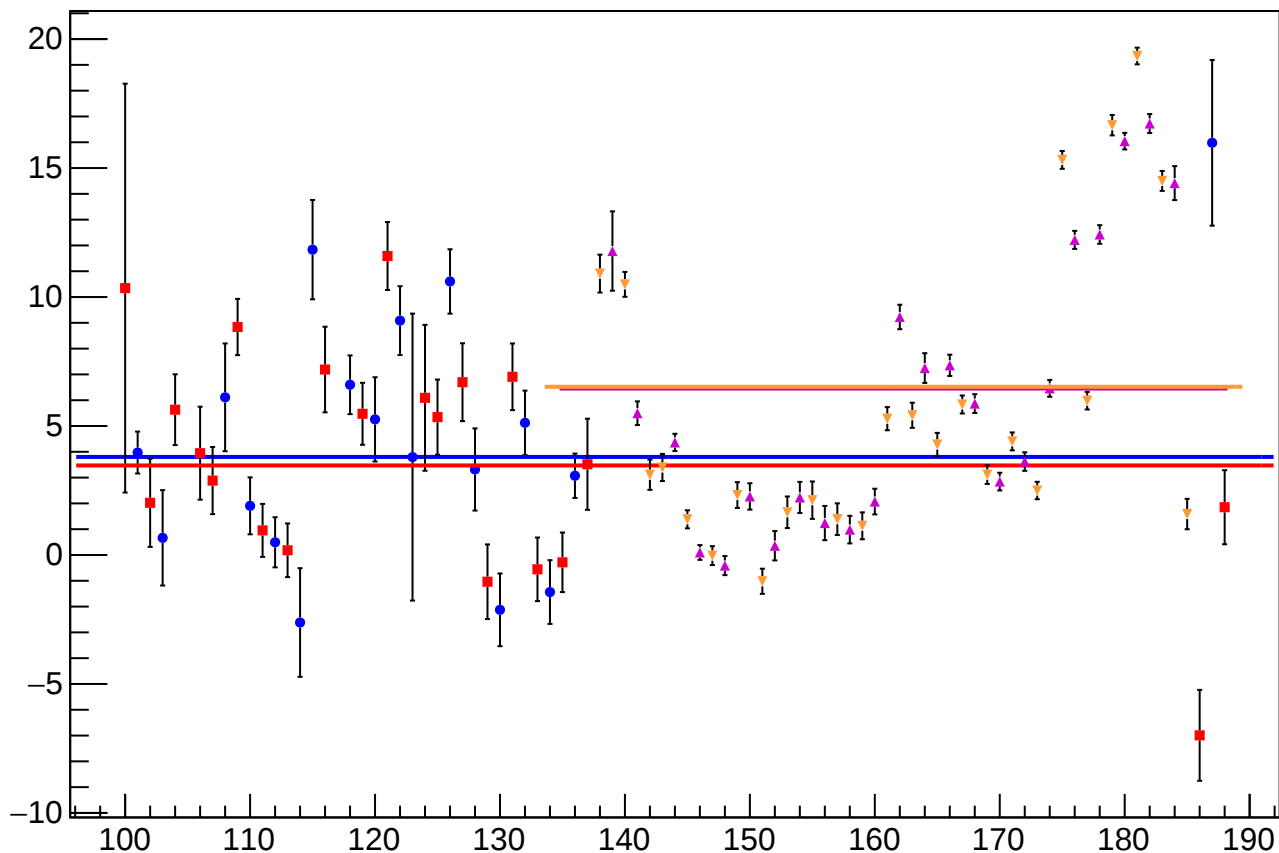
Right: 16.310 ± 0.760 χ^2/NDF : 116.5/2

In: -15.166 ± 0.107 χ^2/NDF : 8778.7/23

Out: -14.875 ± 0.104 χ^2/NDF : 12217.7/26

All: -15.018 ± 0.075 χ^2/NDF : 21000.2/50

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.801 $\pm$ 0.309 χ^2 /NDF: 149.7/17

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF:4985.2/24

Right Out: 3.471 $\pm$ 0.305 χ^2 /NDF: 171.9/20

Left In: 6.452 $\pm$ 0.086 χ^2 /NDF:3948.0/22

Left: 6.487 $\pm$ 0.061 χ^2 /NDF: 8933.5/47

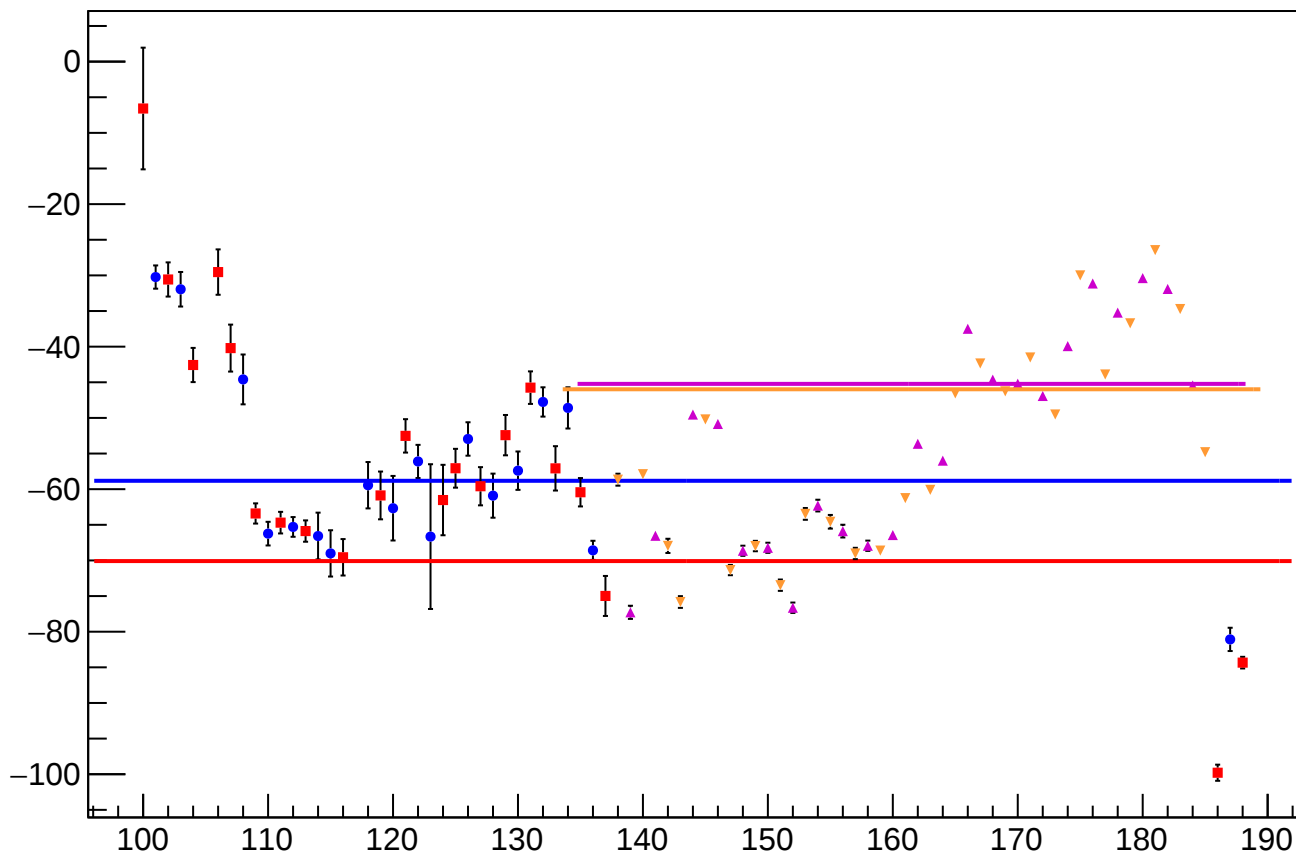
Right: 3.633 $\pm$ 0.217 χ^2 /NDF: 322.1/38

In: 6.262 $\pm$ 0.083 χ^2 /NDF:4165.8/40

Out: 6.299 $\pm$ 0.082 χ^2 /NDF:5250.1/45

All: 6.280 $\pm$ 0.058 χ^2 /NDF: 9416.0/86

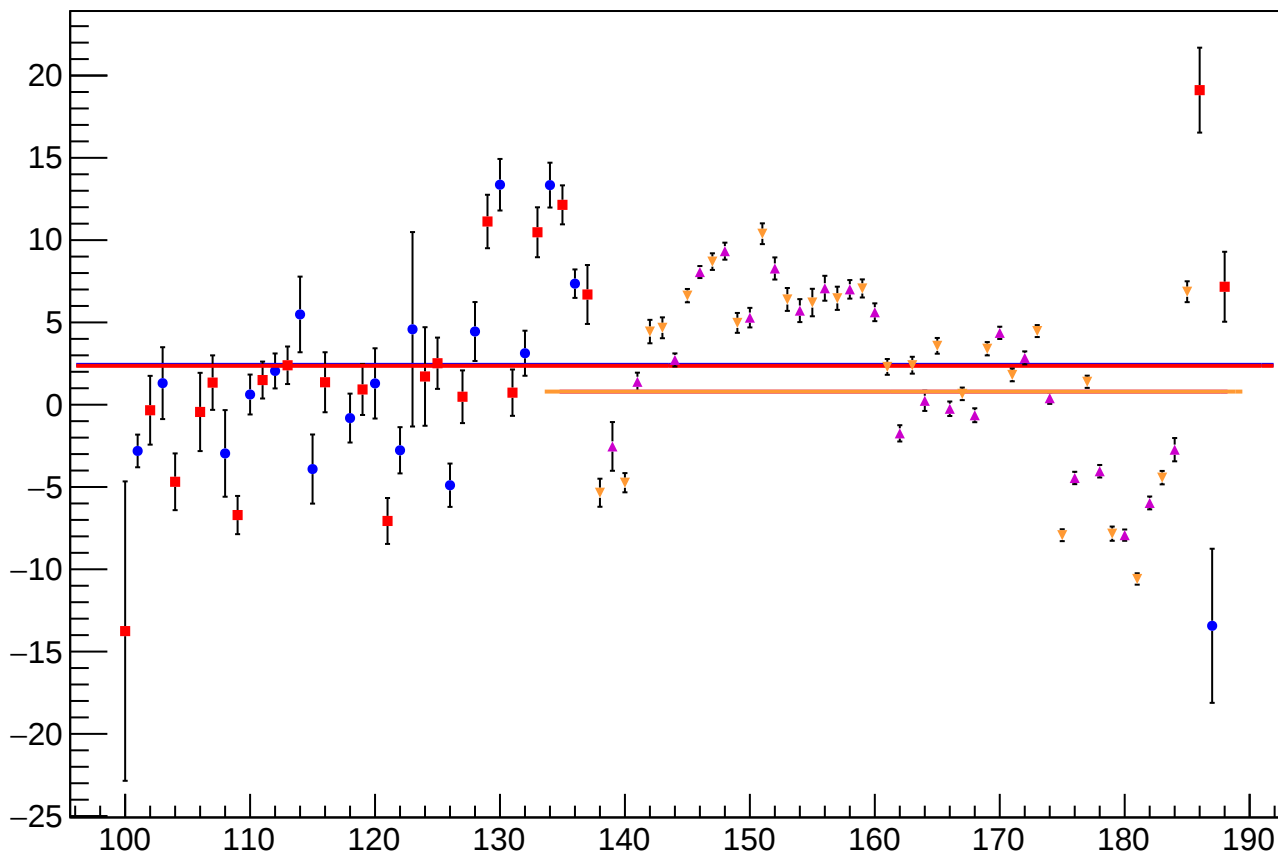
reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



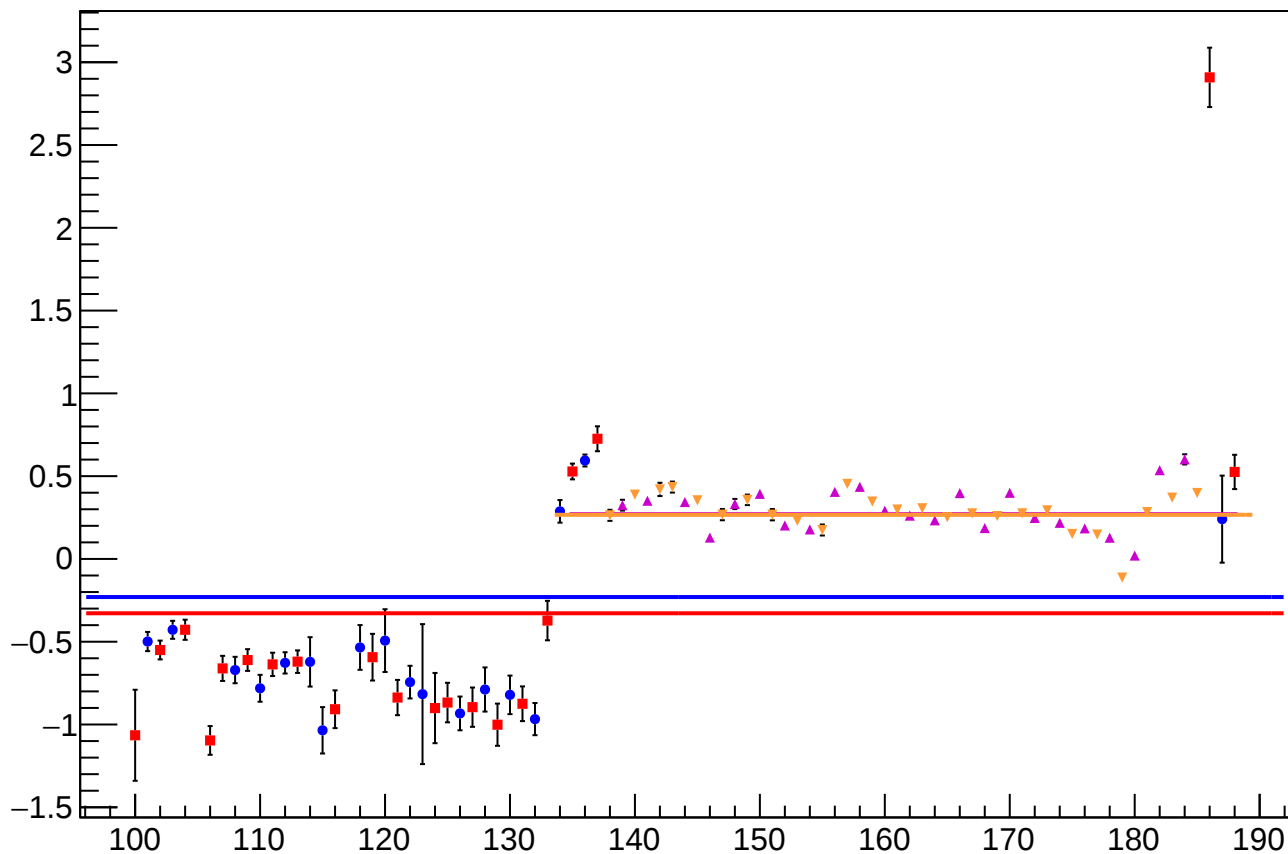
Right In: -58.823±/0.516 χ^2/NDF : 793.8/17
 Left Out: -45.982±/0.106 χ^2/NDF :17360.1/24
 Right Out: -70.090±/0.417 χ^2/NDF : 2039.4/20
 Left In: -45.222±/0.107 χ^2/NDF :15600.2/22

Left: -45.605±/0.075 χ^2/NDF : 32985.7/47
 Right: -65.641±/0.324 χ^2/NDF : 3121.3/38
 In: -45.784±/0.105 χ^2/NDF :17059.3/40
 Out: -47.451±/0.103 χ^2/NDF :22536.7/45
 All: -46.633±/0.074 χ^2/NDF : 39724.5/86

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.230 ± 0.019 χ^2/NDF : 960.2/17

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.328 ± 0.019 χ^2/NDF : 1249.8/20

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

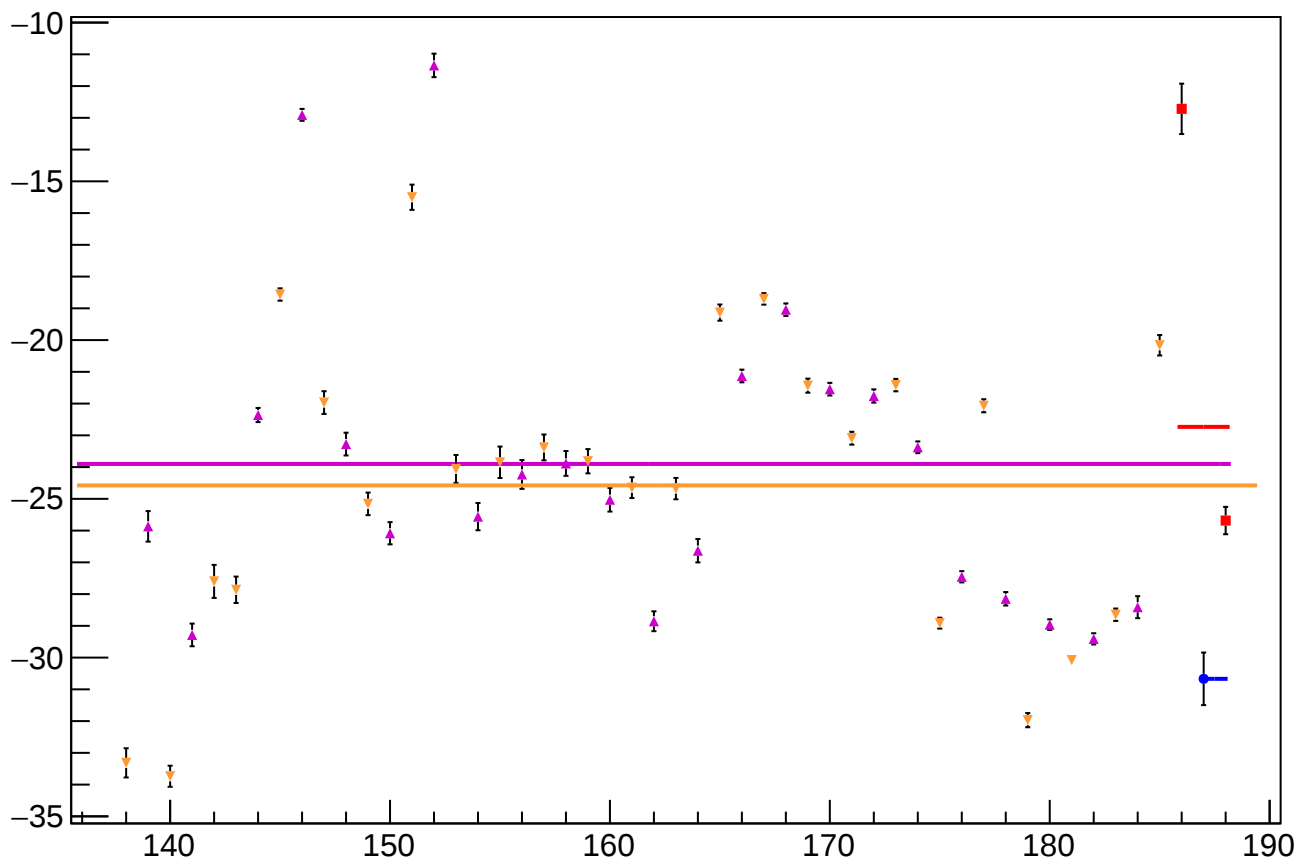
Right: -0.280 ± 0.013 χ^2/NDF : 2223.8/38

In: 0.244 ± 0.004 χ^2/NDF : 2596.8/40

Out: 0.236 ± 0.004 χ^2/NDF : 2919.6/45

All: 0.240 ± 0.003 χ^2/NDF : 5518.4/86

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.669 ± 0.828 χ^2/NDF : 0.0/0

Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24

Right Out: -22.733 ± 0.379 χ^2/NDF : 206.2/1

Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

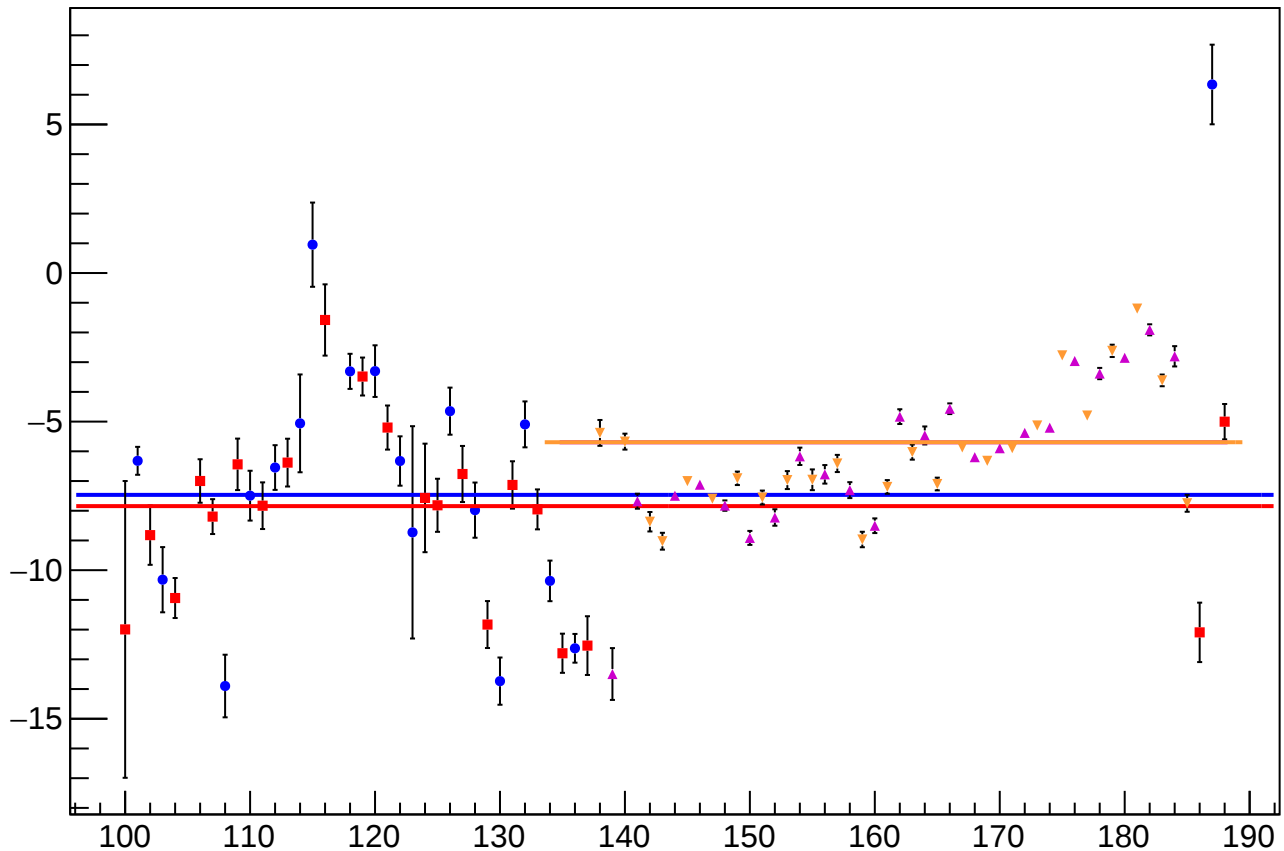
Right: -24.107 ± 0.344 χ^2/NDF : 282.2/2

In: -23.927 ± 0.051 χ^2/NDF : 9221.5/23

Out: -24.544 ± 0.051 χ^2/NDF : 8819.9/26

All: -24.239 ± 0.036 χ^2/NDF : 18115.5/50

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.466 ± 0.186 χ^2/NDF : 486.4/17

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.844 ± 0.175 χ^2/NDF : 264.5/20

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

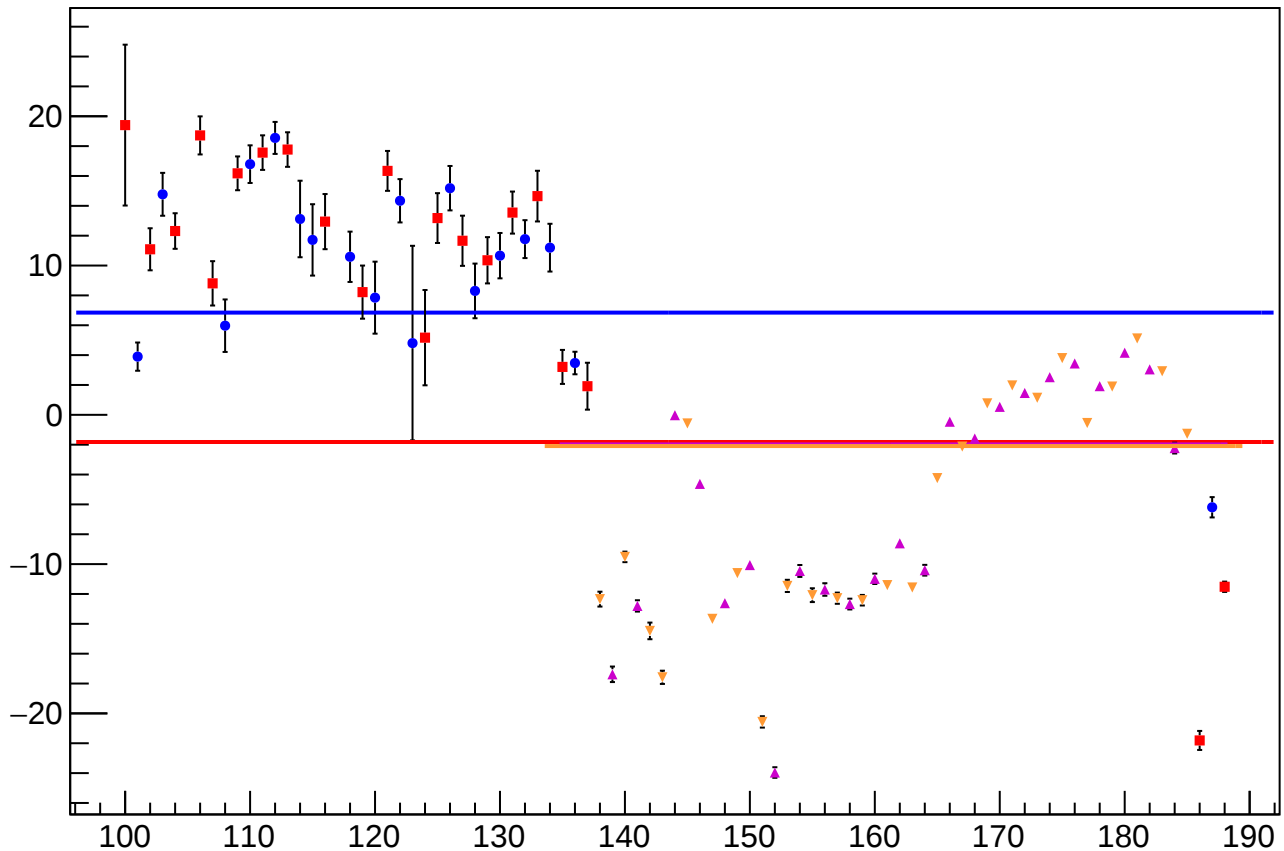
Right: -7.666 ± 0.127 χ^2/NDF : 753.1/38

In: -5.778 ± 0.040 χ^2/NDF : 2882.9/40

Out: -5.807 ± 0.040 χ^2/NDF : 2666.0/45

All: -5.792 ± 0.028 χ^2/NDF : 5549.2/86

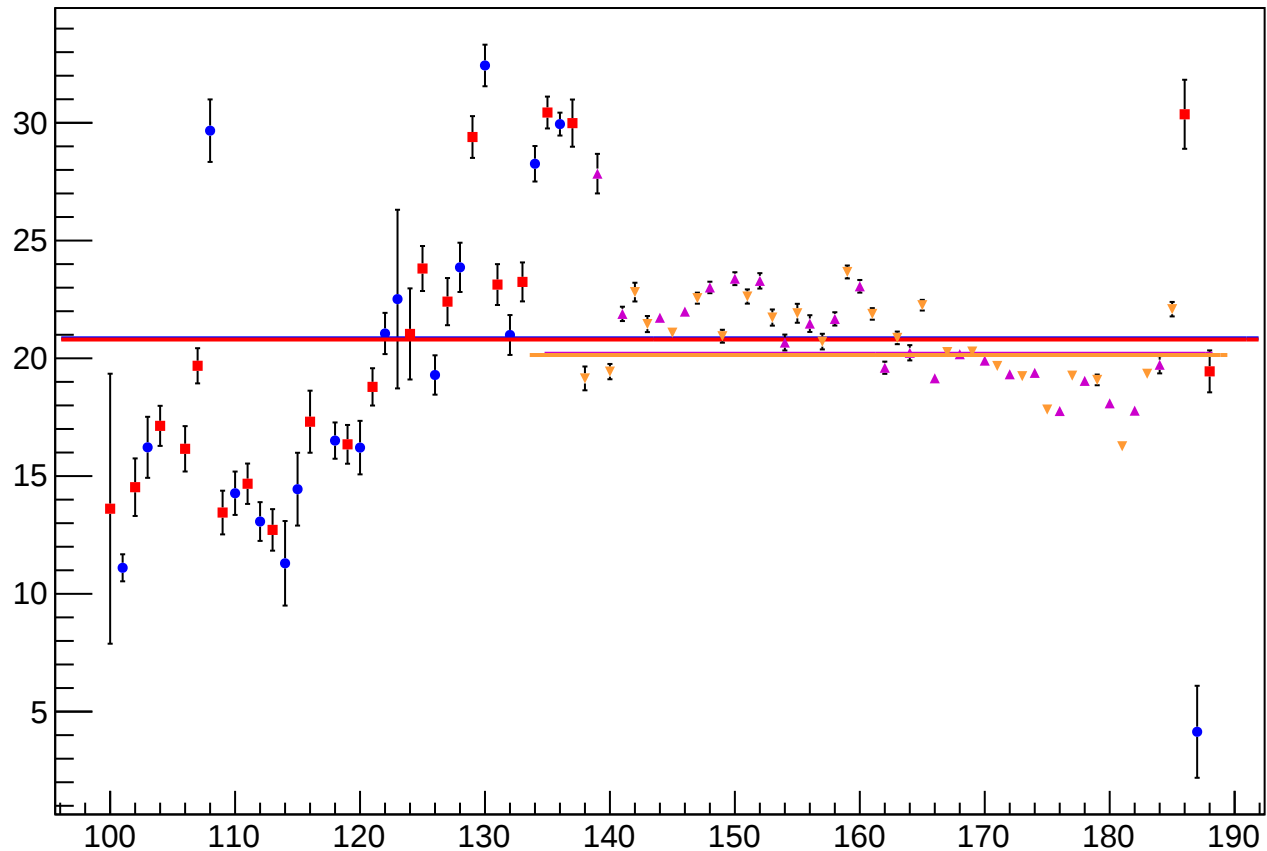
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.848 ± 0.303 $\chi^2/\text{NDF}: 712.1/17$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.820 ± 0.225 $\chi^2/\text{NDF}: 3870.0/20$
 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: 1.253 ± 0.180 $\chi^2/\text{NDF}: 5110.1/38$
 In: -1.735 ± 0.051 $\chi^2/\text{NDF}: 16919.4/40$
 Out: -2.078 ± 0.050 $\chi^2/\text{NDF}: 20176.7/45$
 All: -1.908 ± 0.036 $\chi^2/\text{NDF}: 37119.4/86$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.849 $\pm$ 0.210 χ^2 /NDF: 1283.4/17

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF: 1419.1/24

Right Out: 20.798 $\pm$ 0.205 χ^2 /NDF: 766.9/20

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

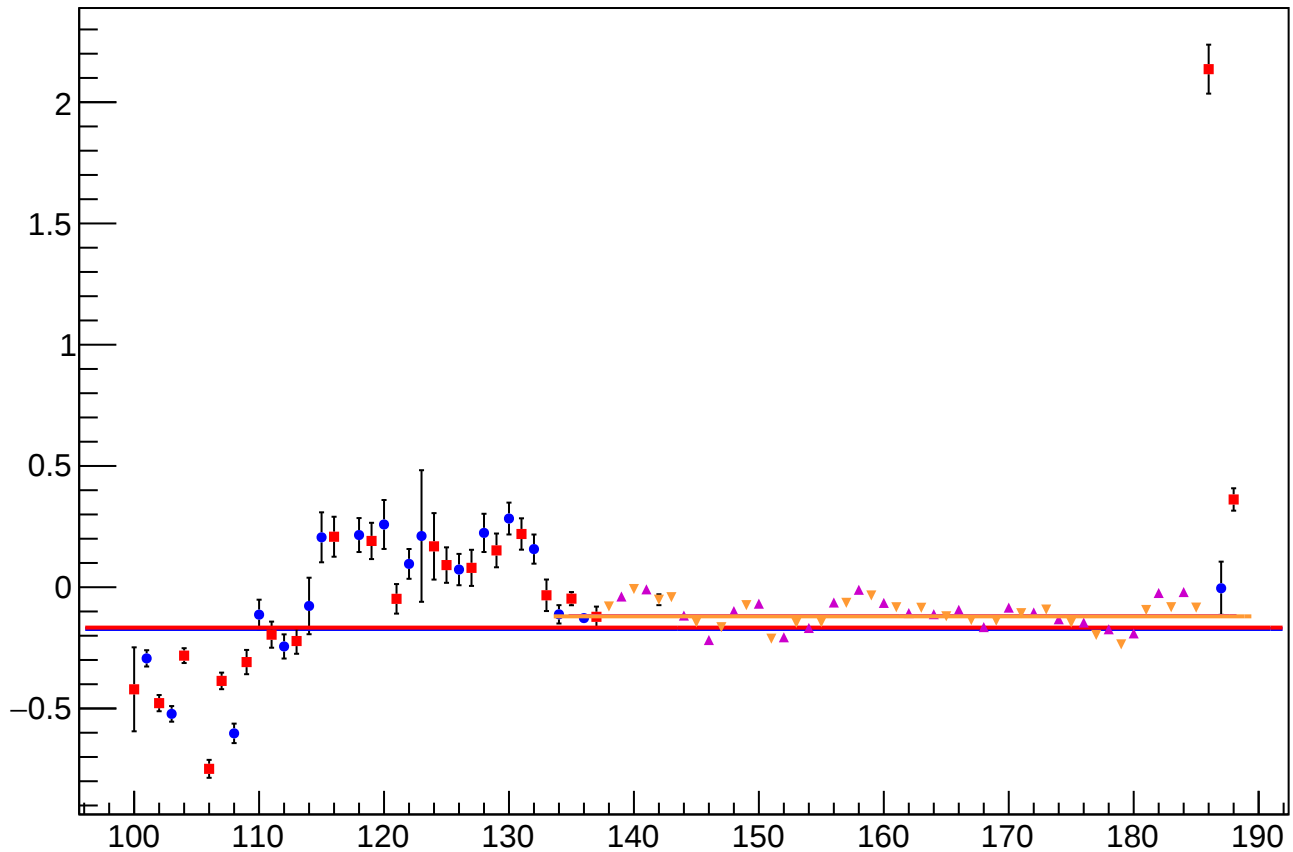
Right: 20.823 $\pm$ 0.147 χ^2 /NDF: 2050.3/38

In: 20.224 $\pm$ 0.045 χ^2 /NDF: 2740.0/40

Out: 20.172 $\pm$ 0.045 χ^2 /NDF: 2195.8/45

All: 20.198 $\pm$ 0.032 χ^2 /NDF: 4936.5/86

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.172 ± 0.011 χ^2/NDF : 460.6/17

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.167 ± 0.011 χ^2/NDF : 1211.4/20

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

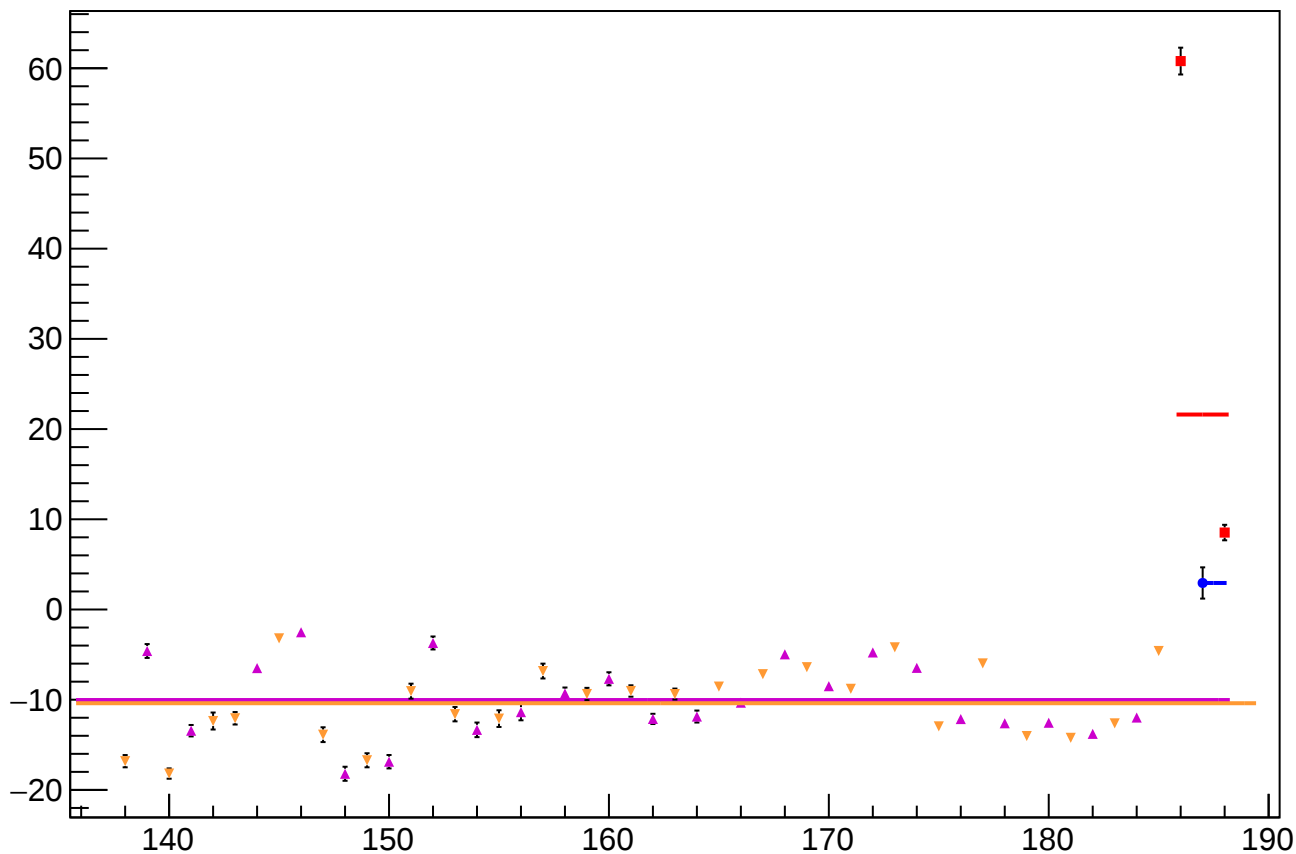
Right: -0.169 ± 0.008 χ^2/NDF : 1672.1/38

In: -0.120 ± 0.002 χ^2/NDF : 1204.5/40

Out: -0.122 ± 0.002 χ^2/NDF : 1760.2/45

All: -0.121 ± 0.001 χ^2/NDF : 2964.9/86

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.941+/-1.732 χ^2/NDF : 0.0/0

Left Out: -10.391+/-0.088 χ^2/NDF : 2111.6/24

Right Out: 21.613+/-0.744 χ^2/NDF : 926.6/1

Left In: -10.036+/-0.090 χ^2/NDF : 1758.7/22

Left: -10.217+/-0.063 χ^2/NDF : 3878.3/47

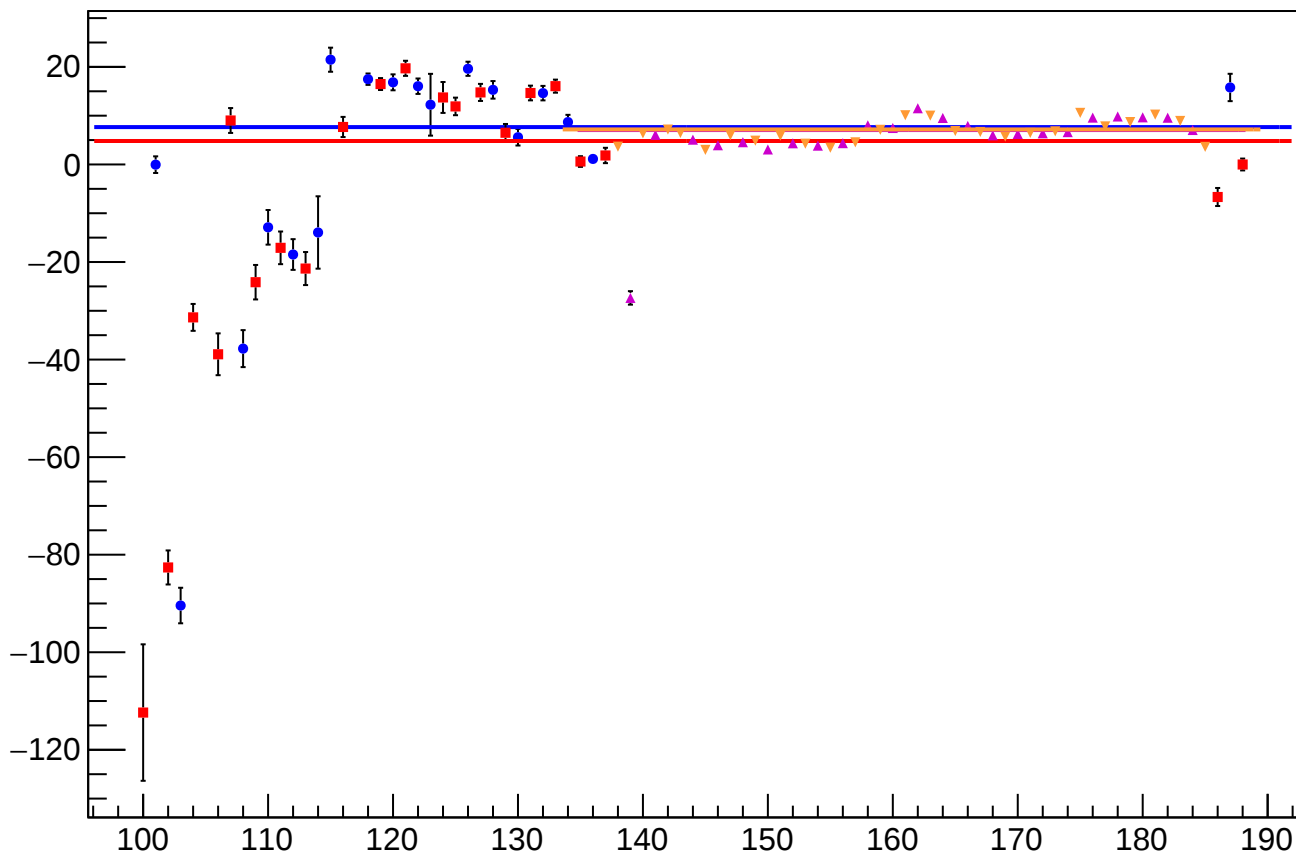
Right: 18.706+/-0.683 χ^2/NDF : 1024.7/2

In: -10.001+/-0.089 χ^2/NDF : 1814.6/23

Out: -9.951+/-0.087 χ^2/NDF : 4864.1/26

All: -9.975+/-0.062 χ^2/NDF : 6678.9/50

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.660 ± 0.403 $\chi^2/\text{NDF}: 1349.1/17$

Left Out: 7.184 ± 0.073 $\chi^2/\text{NDF}: 917.3/24$

Right Out: 4.810 ± 0.400 $\chi^2/\text{NDF}: 1574.4/20$

Left In: 7.053 ± 0.074 $\chi^2/\text{NDF}: 1535.8/22$

Left: 7.119 ± 0.052 $\chi^2/\text{NDF}: 2454.8/47$

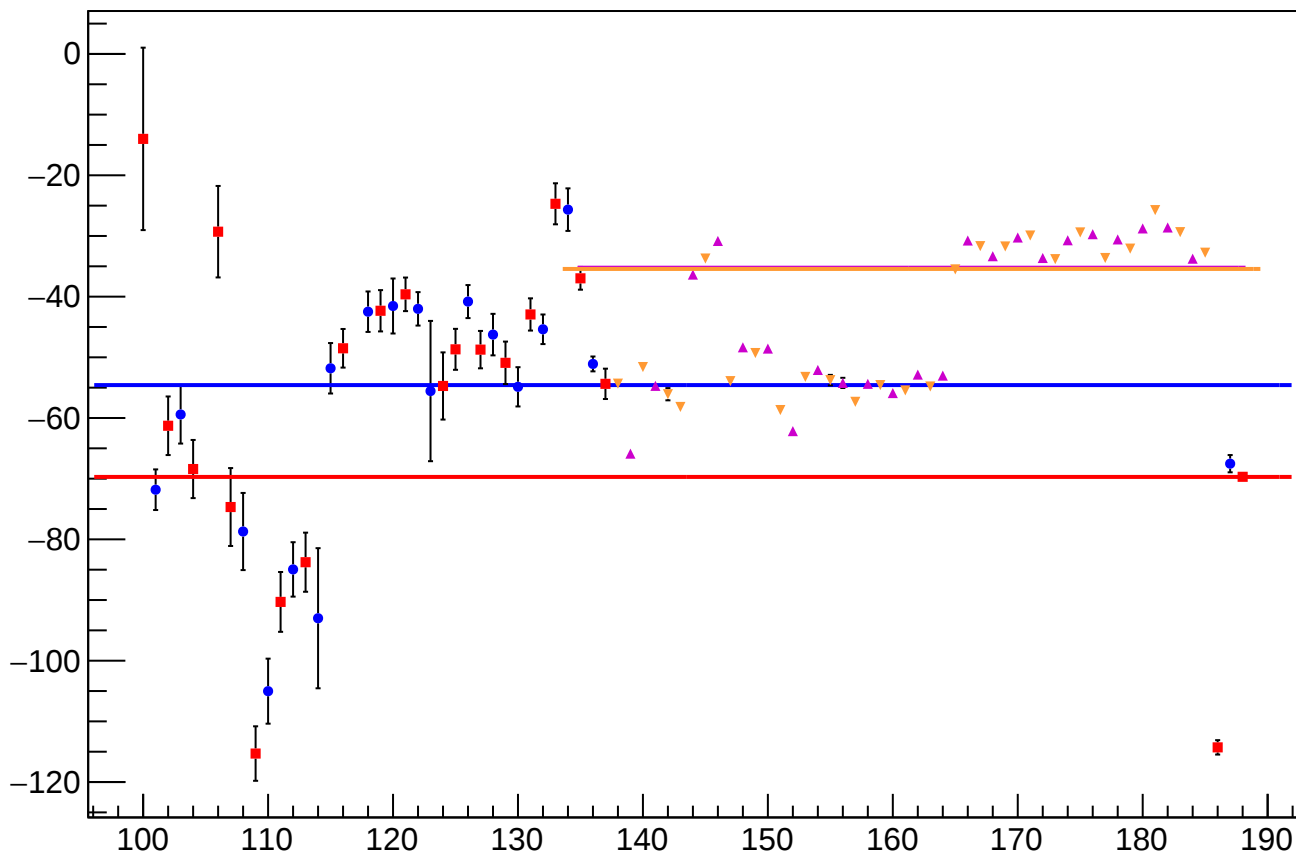
Right: 6.224 ± 0.284 $\chi^2/\text{NDF}: 2948.8/38$

In: 7.073 ± 0.073 $\chi^2/\text{NDF}: 2887.2/40$

Out: 7.107 ± 0.072 $\chi^2/\text{NDF}: 2525.8/45$

All: 7.090 ± 0.051 $\chi^2/\text{NDF}: 5413.1/86$

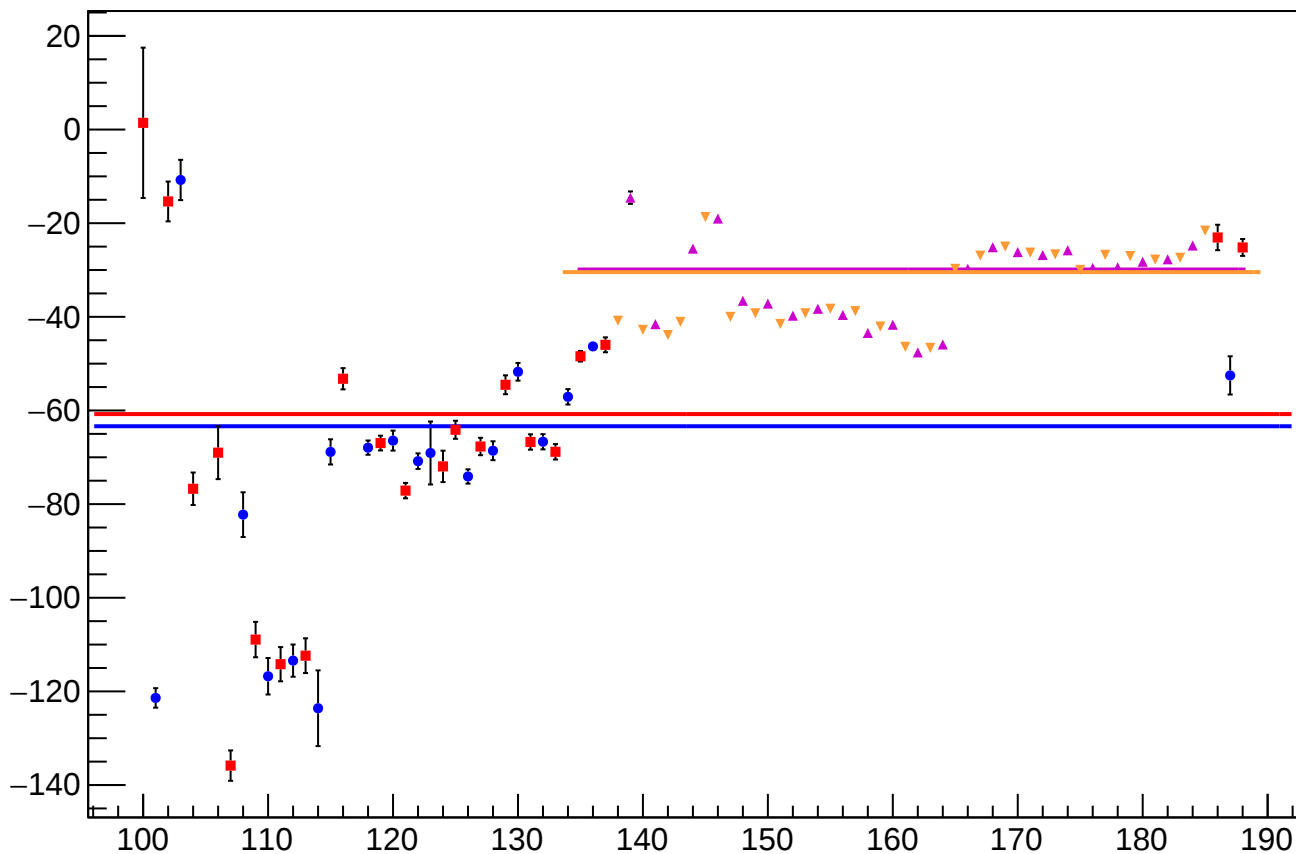
reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -54.576 $\pm$ 0.658 χ^2/NDF : 434.9/17
 Left Out: -35.434 $\pm$ 0.089 χ^2/NDF :12782.8/24
 Right Out: -69.711 $\pm$ 0.479 χ^2/NDF : 2553.1/20
 Left In: -35.229 $\pm$ 0.090 χ^2/NDF :11602.9/22

Left: -35.333 $\pm$ 0.063 χ^2/NDF : 24388.3/47
 Right: -64.465 $\pm$ 0.387 χ^2/NDF : 3333.8/38
 In: -35.585 $\pm$ 0.089 χ^2/NDF :12886.8/40
 Out: -36.578 $\pm$ 0.088 χ^2/NDF :20283.5/45
 All: -36.091 $\pm$ 0.062 χ^2/NDF : 33233.4/86

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -63.370 ± 0.447 χ^2/NDF : 2013.4/17

Left Out: -30.448 ± 0.082 χ^2/NDF : 8167.7/24

Right Out: -60.772 ± 0.461 χ^2/NDF : 2247.4/20

Left In: -29.892 ± 0.083 χ^2/NDF : 7115.0/22

Left: -30.174 ± 0.058 χ^2/NDF : 15305.7/47

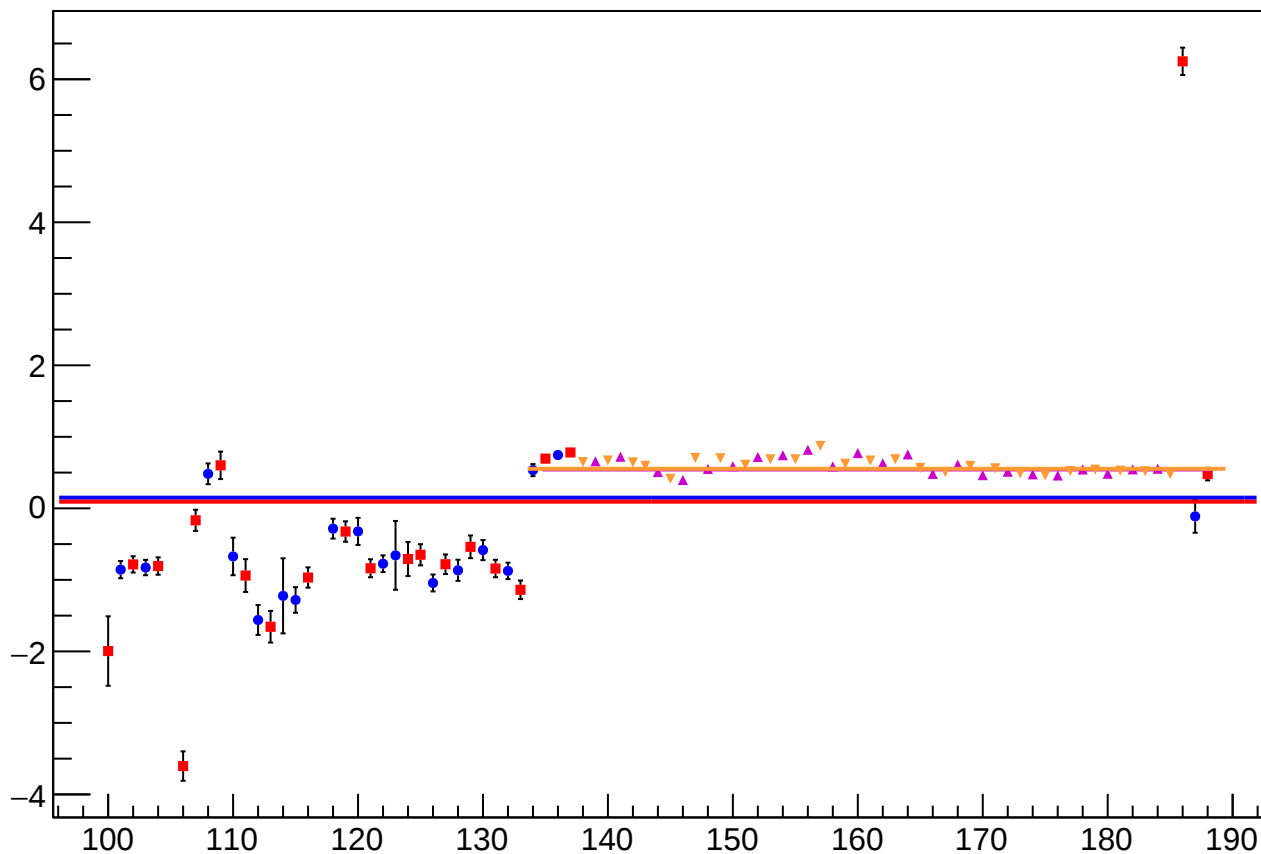
Right: -62.111 ± 0.321 χ^2/NDF : 4277.3/38

In: -30.999 ± 0.081 χ^2/NDF : 14563.5/40

Out: -31.369 ± 0.080 χ^2/NDF : 14619.0/45

All: -31.186 ± 0.057 χ^2/NDF : 29193.0/86

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.149 $\pm$ 0.024 χ^2 /NDF: 988.7/17

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.093 $\pm$ 0.025 χ^2 /NDF: 2249.6/20

Left In: 0.544 $\pm$ 0.004 χ^2 /NDF:655.9/22

Left: 0.548 $\pm$ 0.003 χ^2 /NDF: 1200.9/47

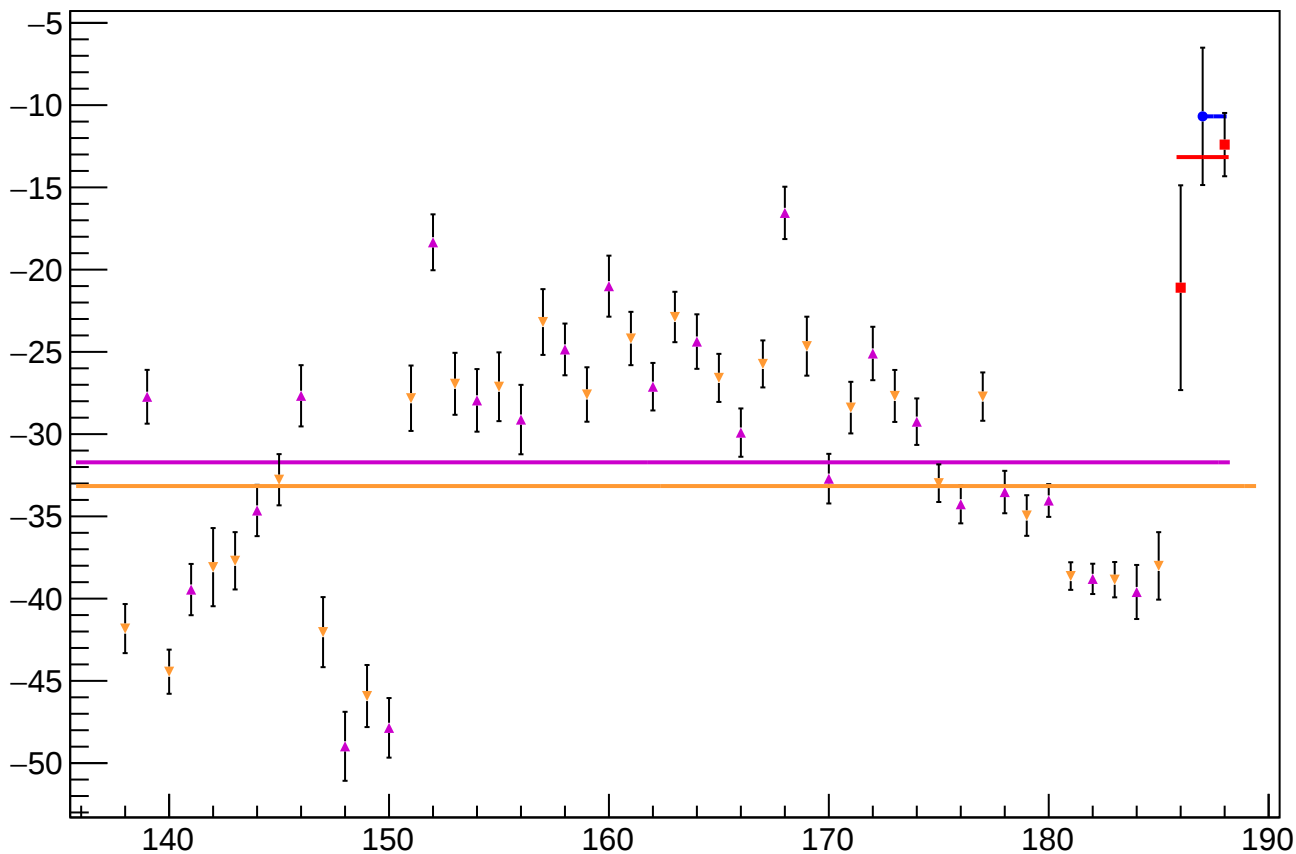
Right: 0.123 $\pm$ 0.017 χ^2 /NDF: 3240.9/38

In: 0.534 $\pm$ 0.004 χ^2 /NDF:1909.6/40

Out: 0.543 $\pm$ 0.004 χ^2 /NDF:3122.2/45

All: 0.539 $\pm$ 0.003 χ^2 /NDF: 5034.7/86

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



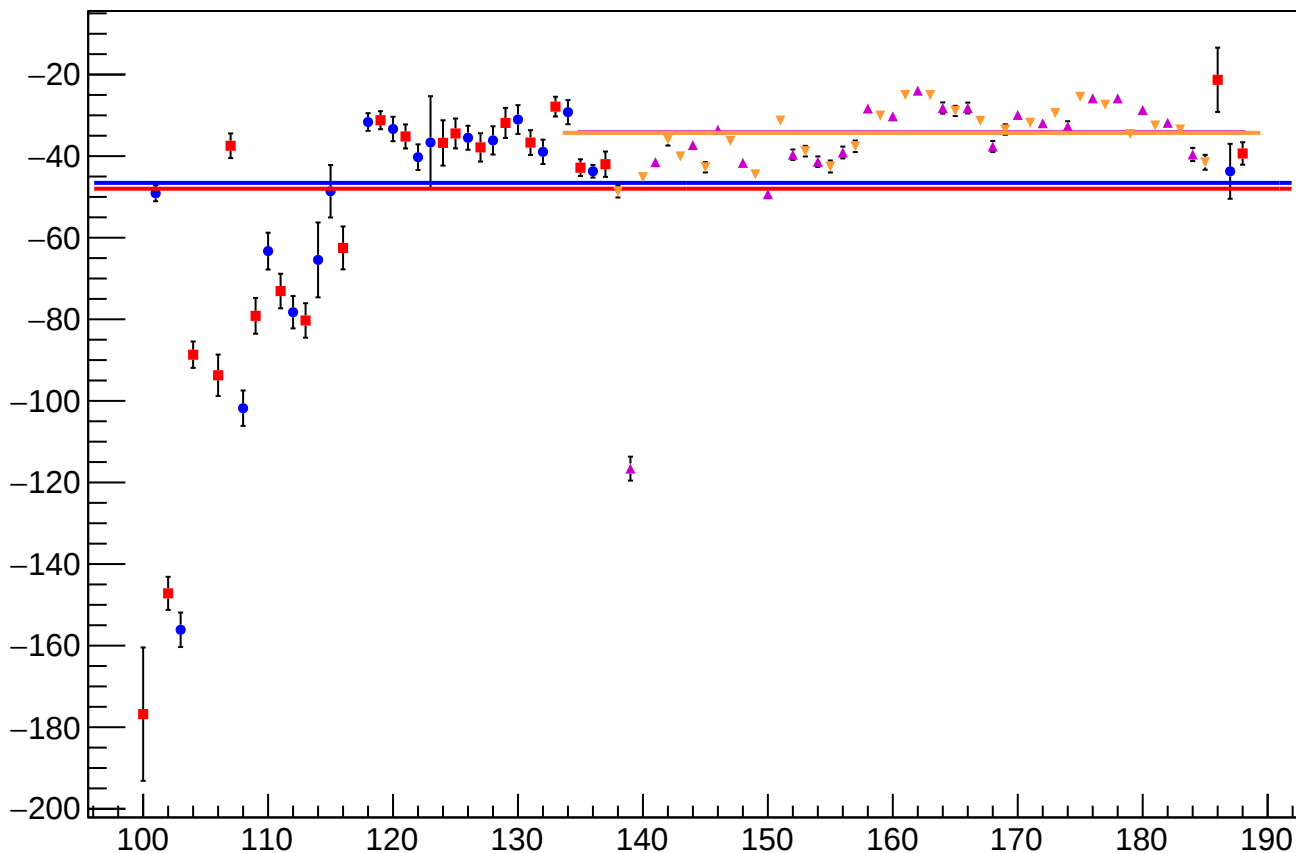
Right In: -10.682 ± 4.176 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$
 Right Out: -13.158 ± 1.838 $\chi^2/\text{NDF}: 1.8/1$
 Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$
 Right: -12.756 ± 1.682 $\chi^2/\text{NDF}: 2.1/2$

In: -31.600 ± 0.308 $\chi^2/\text{NDF}: 567.5/23$
 Out: -32.637 ± 0.296 $\chi^2/\text{NDF}: 617.2/26$

All: -32.139 ± 0.214 $\chi^2/\text{NDF}: 1190.6/50$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -46.554 ± 0.726 χ^2/NDF : 1076.2/17

Left Out: -34.287 ± 0.241 χ^2/NDF : 695.3/24

Right Out: -47.987 ± 0.733 χ^2/NDF : 1300.4/20

Left In: -34.145 ± 0.251 χ^2/NDF : 1452.6/22

Left: -34.219 ± 0.174 χ^2/NDF : 2148.1/47

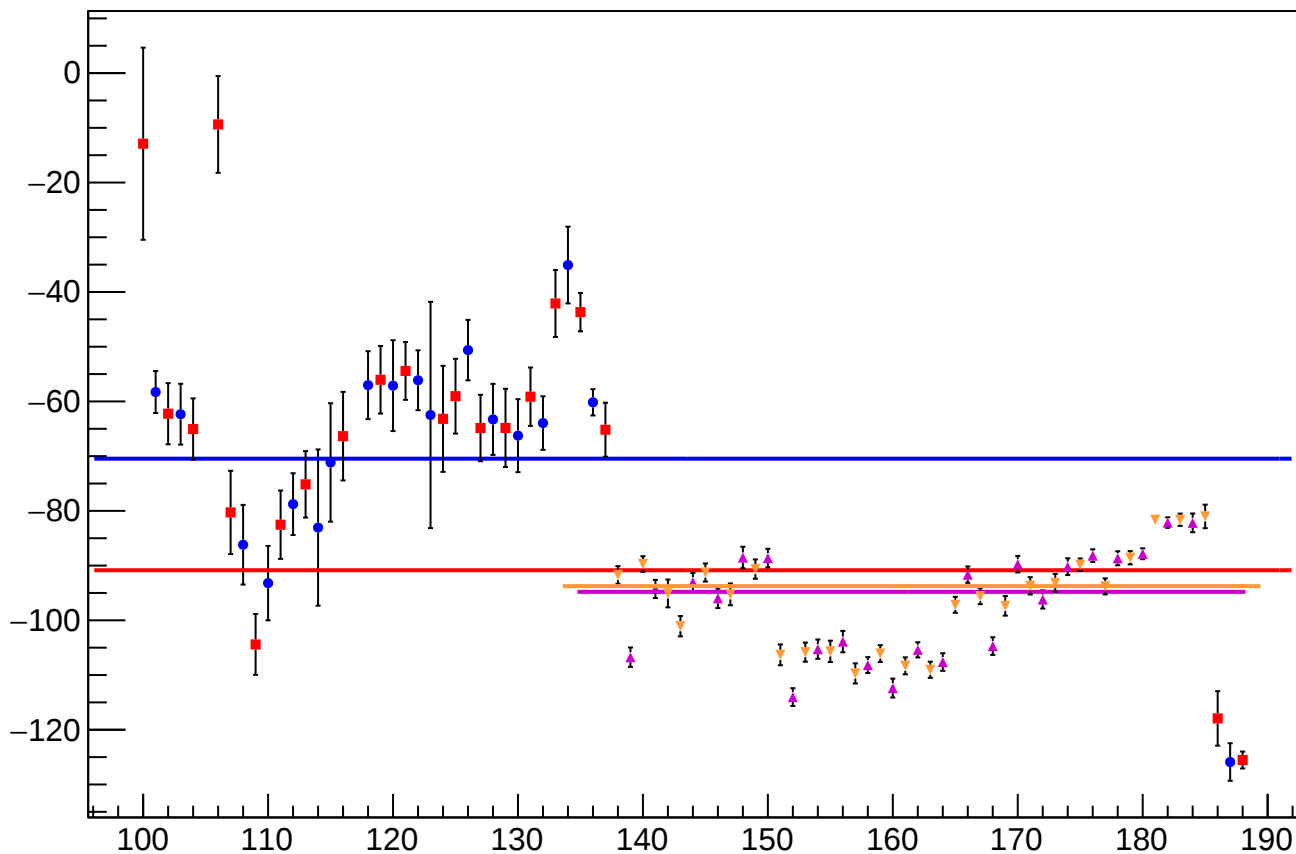
Right: -47.264 ± 0.516 χ^2/NDF : 2378.5/38

In: -35.467 ± 0.237 χ^2/NDF : 2789.7/40

Out: -35.627 ± 0.229 χ^2/NDF : 2310.5/45

All: -35.550 ± 0.165 χ^2/NDF : 5100.4/86

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



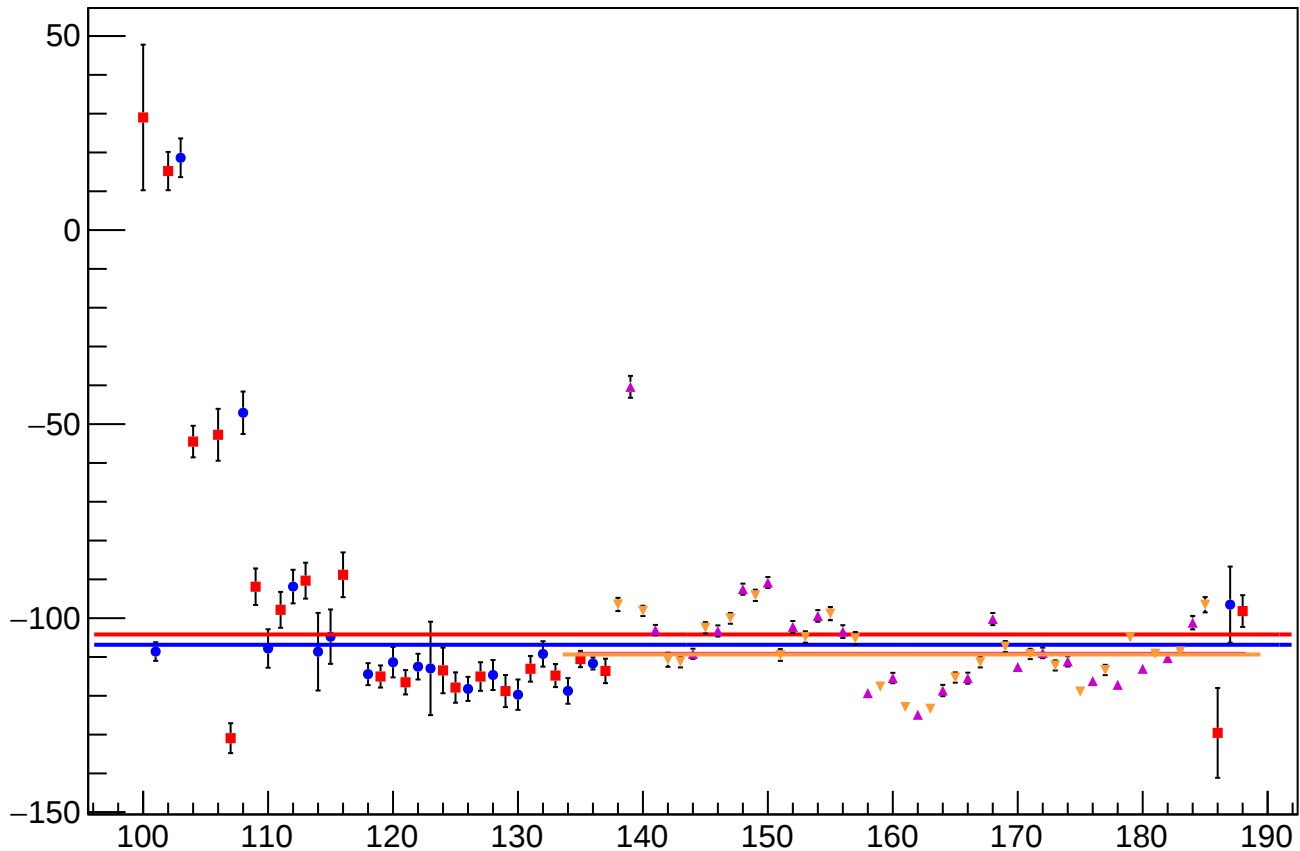
Right In: -70.461 ± 1.230 $\chi^2/\text{NDF}: 366.4/17$
 Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$
 Right Out: -90.847 ± 1.011 $\chi^2/\text{NDF}: 1154.8/20$
 Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$
 Right: -82.627 ± 0.781 $\chi^2/\text{NDF}: 1685.2/38$

In: -93.356 ± 0.299 $\chi^2/\text{NDF}: 1709.6/40$
 Out: -93.516 ± 0.289 $\chi^2/\text{NDF}: 2045.4/45$

All: -93.439 ± 0.208 $\chi^2/\text{NDF}: 3755.2/86$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -106.854 ± 0.815 $\chi^2/\text{NDF}: 827.8/17$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -104.197 ± 0.842 $\chi^2/\text{NDF}: 1027.5/20$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

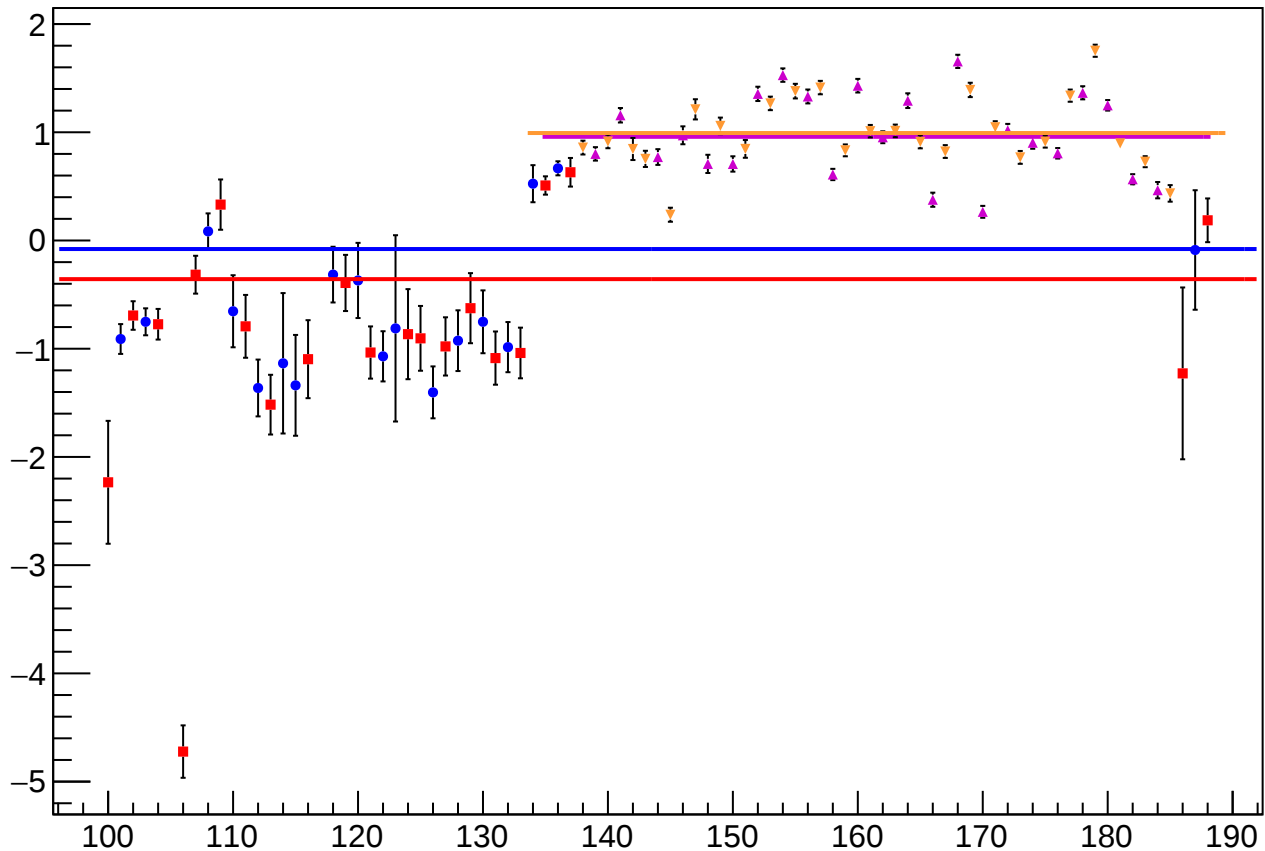
Right: -105.568 ± 0.586 $\chi^2/\text{NDF}: 1860.5/38$

In: -108.938 ± 0.265 $\chi^2/\text{NDF}: 2336.3/40$

Out: -108.867 ± 0.258 $\chi^2/\text{NDF}: 1888.3/45$

All: -108.902 ± 0.185 $\chi^2/\text{NDF}: 4224.6/86$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.079 ± 0.042 χ^2/NDF : 328.6/17

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: -0.357 ± 0.043 χ^2/NDF : 588.9/20

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

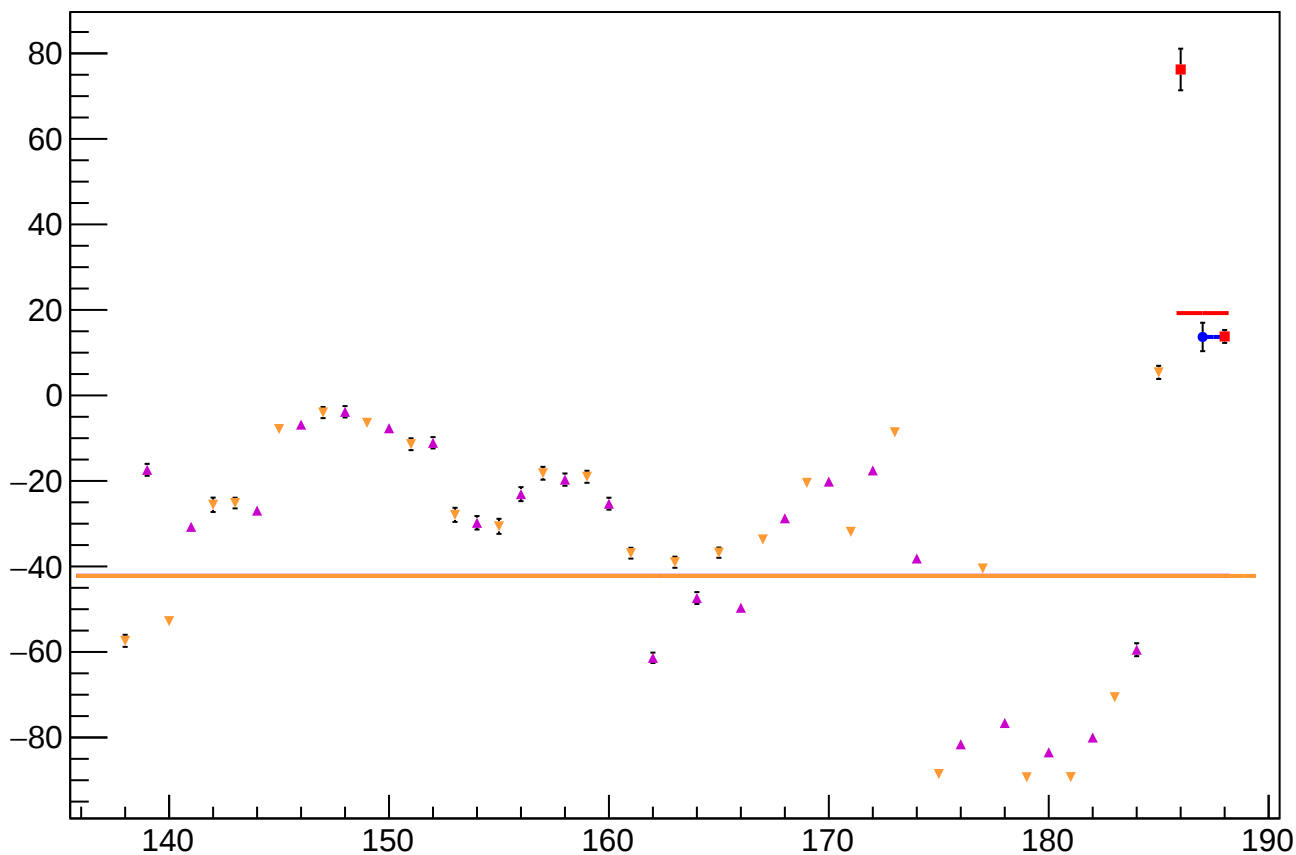
Right: -0.215 ± 0.030 χ^2/NDF : 938.8/38

In: 0.872 ± 0.012 χ^2/NDF : 1777.6/40

Out: 0.889 ± 0.012 χ^2/NDF : 2138.5/45

All: 0.881 ± 0.009 χ^2/NDF : 3917.1/86

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.675 ± 3.323 $\chi^2/\text{NDF}: 0.0/0$

Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$

Right Out: 19.259 ± 1.440 $\chi^2/\text{NDF}: 150.2/1$

Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$

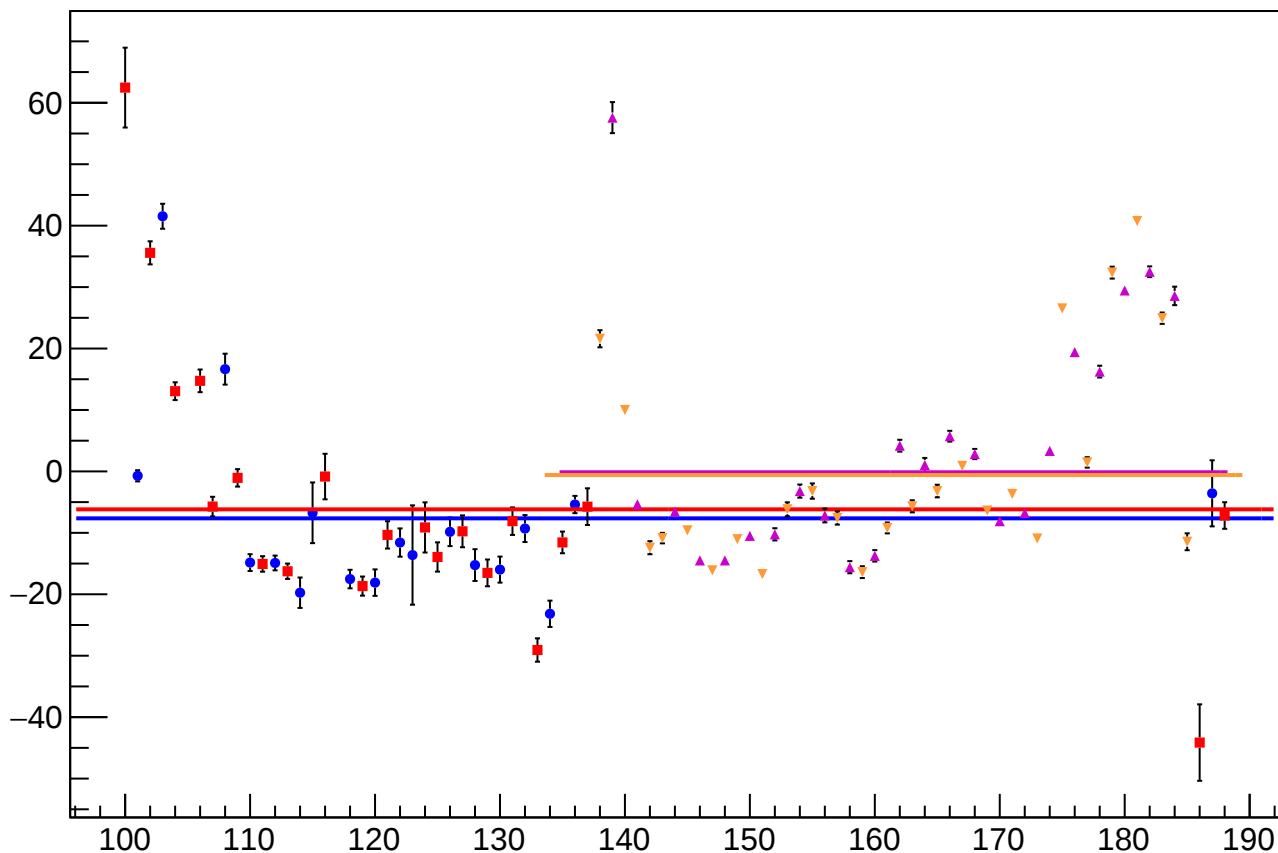
Right: 18.376 ± 1.321 $\chi^2/\text{NDF}: 152.6/2$

In: -41.916 ± 0.227 $\chi^2/\text{NDF}: 14857.1/23$

Out: -40.786 ± 0.219 $\chi^2/\text{NDF}: 20238.9/26$

All: -41.333 ± 0.158 $\chi^2/\text{NDF}: 35108.8/50$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



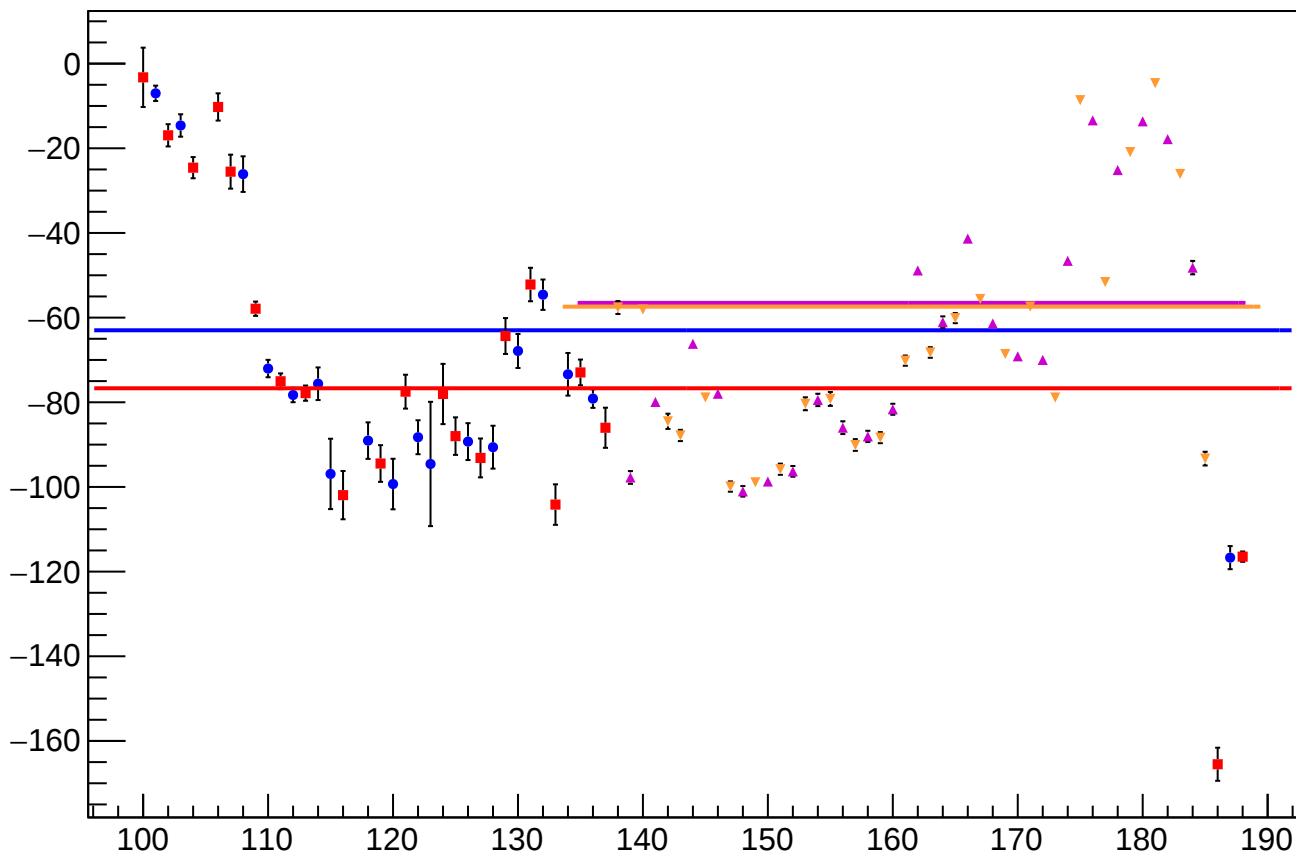
Right In: -7.642 ± 0.429 χ^2/NDF : 976.5/17
 Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24
 Right Out: -6.174 ± 0.420 χ^2/NDF : 1336.2/20
 Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47
 Right: -6.892 ± 0.300 χ^2/NDF : 2318.6/38

In: -1.254 ± 0.165 χ^2/NDF : 8098.8/40
 Out: -1.409 ± 0.161 χ^2/NDF : 10237.9/45

All: -1.334 ± 0.115 χ^2/NDF : 18337.1/86

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.992 $\pm$ 0.721 χ^2 /NDF: 2123.0/17

Left Out: -57.413 $\pm$ 0.223 χ^2 /NDF:18604.1/24

Right Out: -76.693 $\pm$ 0.603 χ^2 /NDF: 3495.3/20

Left In: -56.519 $\pm$ 0.227 χ^2 /NDF:16352.6/22

Left: -56.974 $\pm$ 0.159 χ^2 /NDF: 34964.5/47

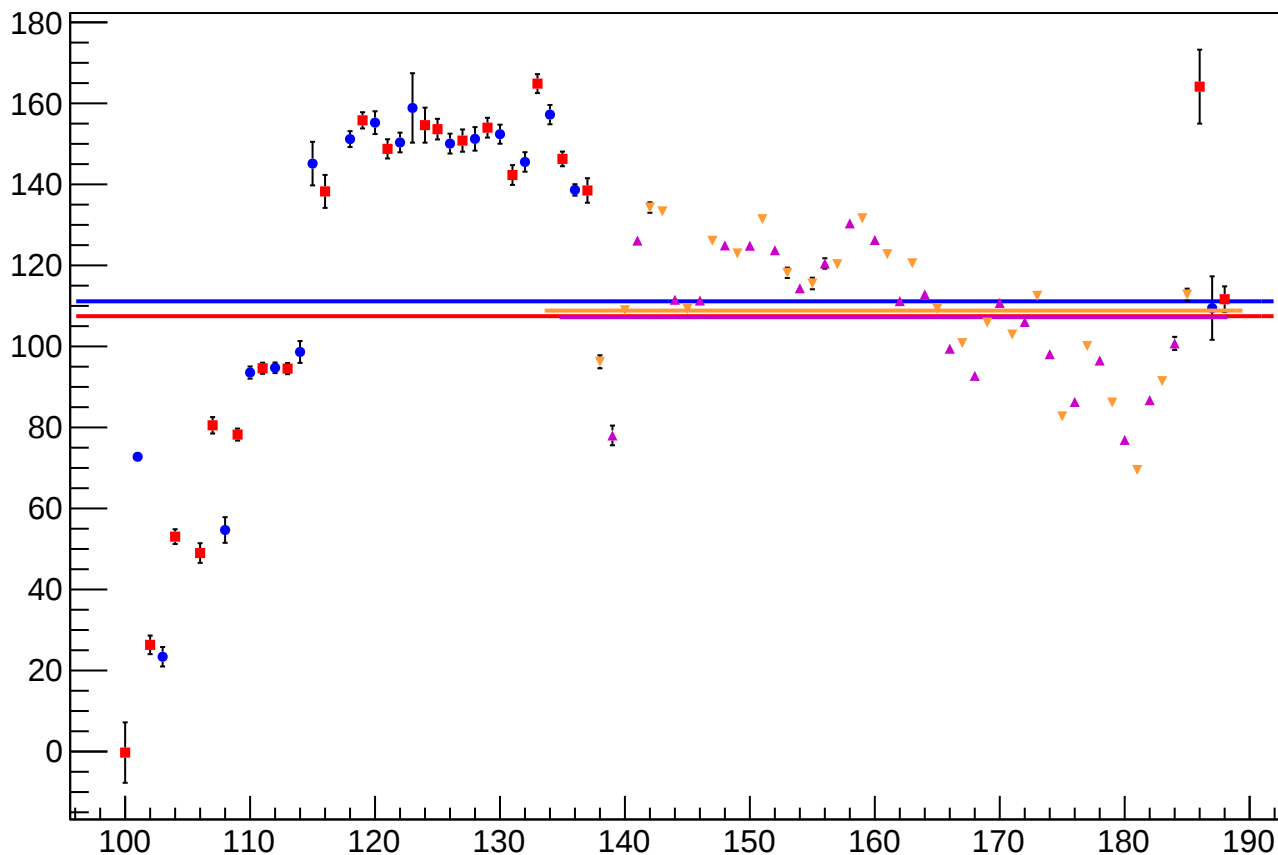
Right: -71.052 $\pm$ 0.462 χ^2 /NDF: 5830.8/38

In: -57.104 $\pm$ 0.217 χ^2 /NDF:18548.9/40

Out: -59.737 $\pm$ 0.209 χ^2 /NDF:22998.7/45

All: -58.465 $\pm$ 0.151 χ^2 /NDF: 41624.1/86

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 111.133 ± 0.489 $\chi^2/\text{NDF}: 5863.6/17$

Left Out: 108.846 ± 0.197 $\chi^2/\text{NDF}: 7400.2/24$

Right Out: 107.463 ± 0.482 $\chi^2/\text{NDF}: 7083.5/20$

Left In: 107.225 ± 0.202 $\chi^2/\text{NDF}: 5565.3/22$

Left: 108.056 ± 0.141 $\chi^2/\text{NDF}: 12998.4/47$

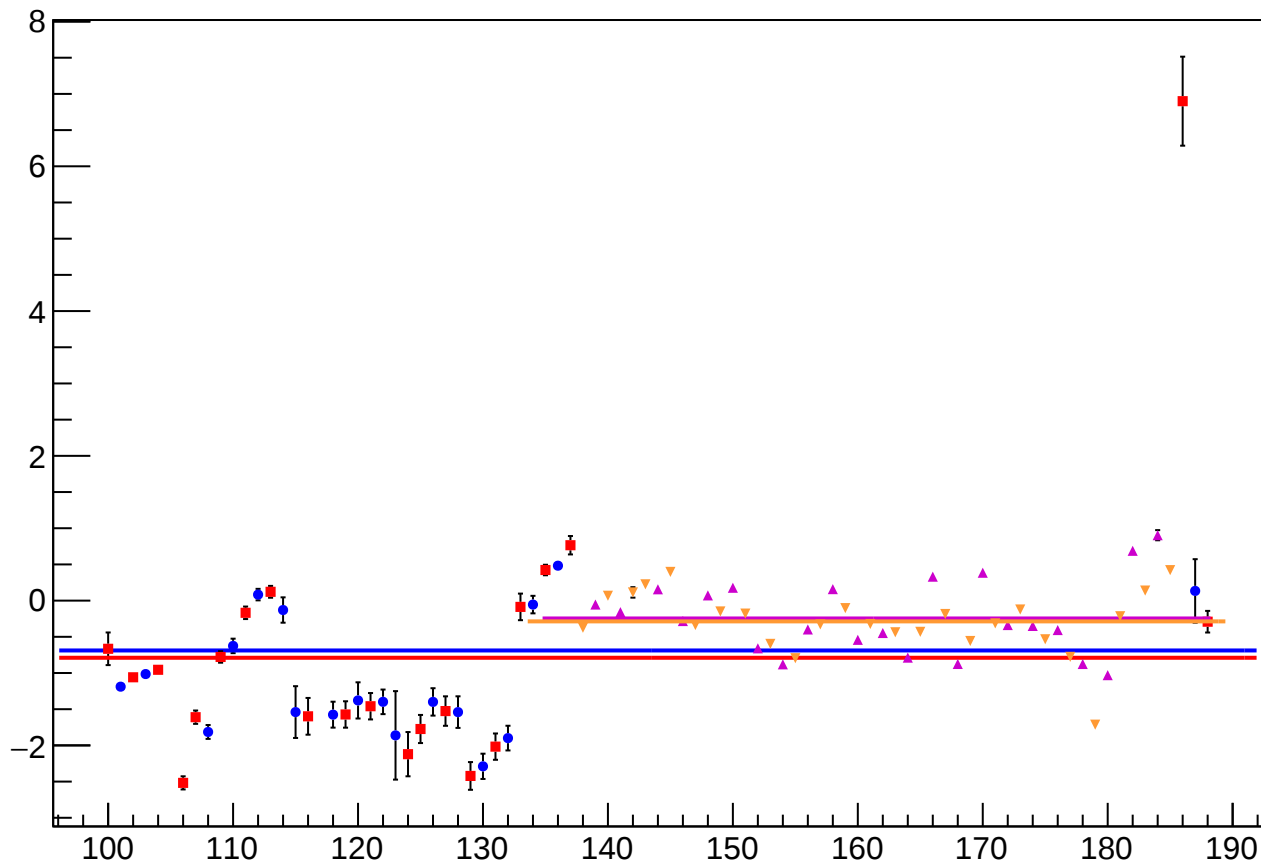
Right: 109.271 ± 0.343 $\chi^2/\text{NDF}: 12975.7/38$

In: 107.796 ± 0.187 $\chi^2/\text{NDF}: 11483.4/40$

Out: 108.648 ± 0.183 $\chi^2/\text{NDF}: 14490.8/45$

All: 108.232 ± 0.131 $\chi^2/\text{NDF}: 25984.8/86$

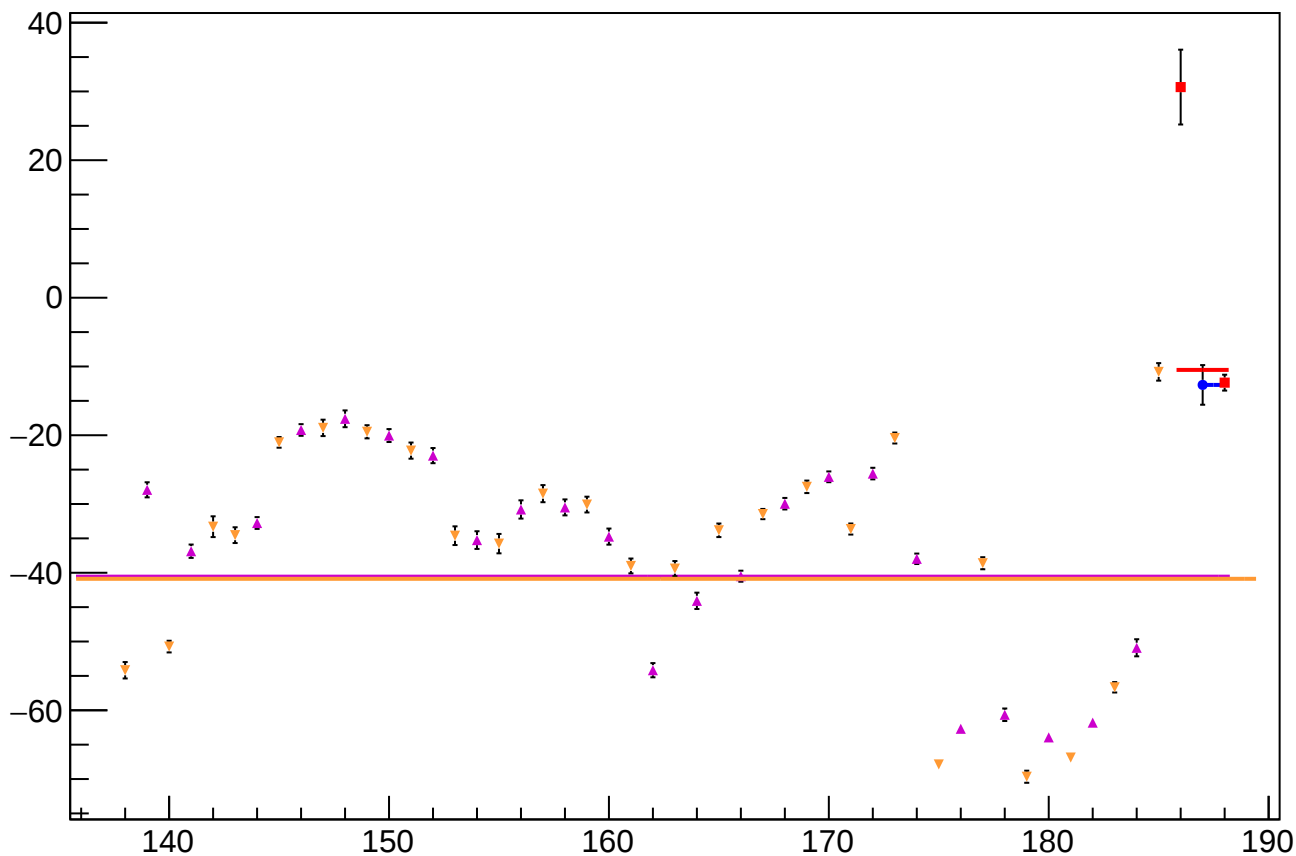
reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.689 ± 0.026 χ^2/NDF : 992.4/17
 Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24
 Right Out: -0.789 ± 0.024 χ^2/NDF : 1471.2/20
 Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47
 Right: -0.743 ± 0.018 χ^2/NDF : 2471.8/38
 In: -0.297 ± 0.009 χ^2/NDF : 4045.1/40
 Out: -0.350 ± 0.008 χ^2/NDF : 3906.6/45
 All: -0.324 ± 0.006 χ^2/NDF : 7970.4/86

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



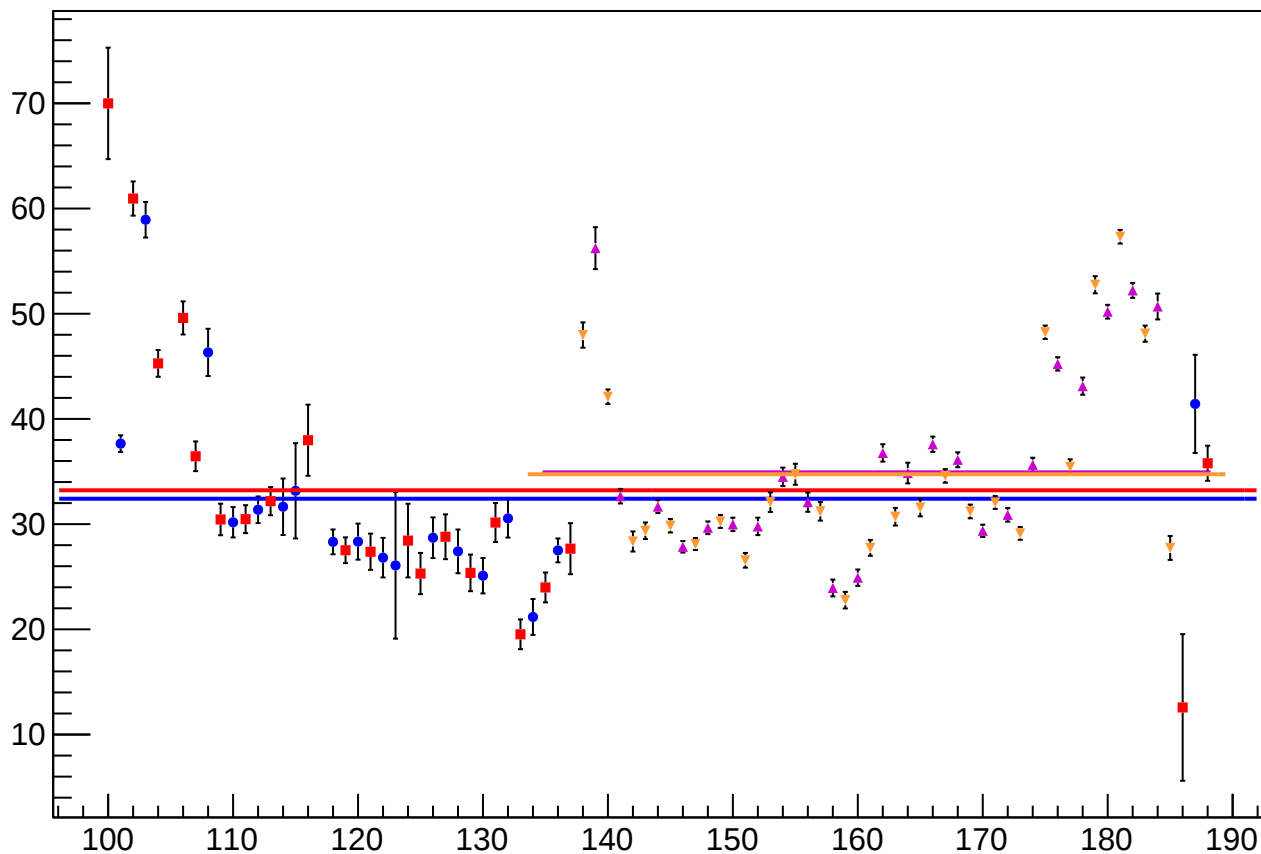
Right In: -12.681 ± 2.883 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$
 Right Out: -10.498 ± 1.130 $\chi^2/\text{NDF}: 59.7/1$
 Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$
 Right: -10.789 ± 1.052 $\chi^2/\text{NDF}: 60.2/2$

In: -40.446 ± 0.189 $\chi^2/\text{NDF}: 7047.9/23$
 Out: -40.077 ± 0.184 $\chi^2/\text{NDF}: 9887.0/26$

All: -40.256 ± 0.132 $\chi^2/\text{NDF}: 16936.8/50$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 32.415 $\pm$ 0.375 χ^2 /NDF: 454.3/17

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF:3693.2/24

Right Out: 33.218 $\pm$ 0.369 χ^2 /NDF: 784.5/20

Left In: 34.922 $\pm$ 0.152 χ^2 /NDF:2672.9/22

Left: 34.829 $\pm$ 0.106 χ^2 /NDF: 6366.8/47

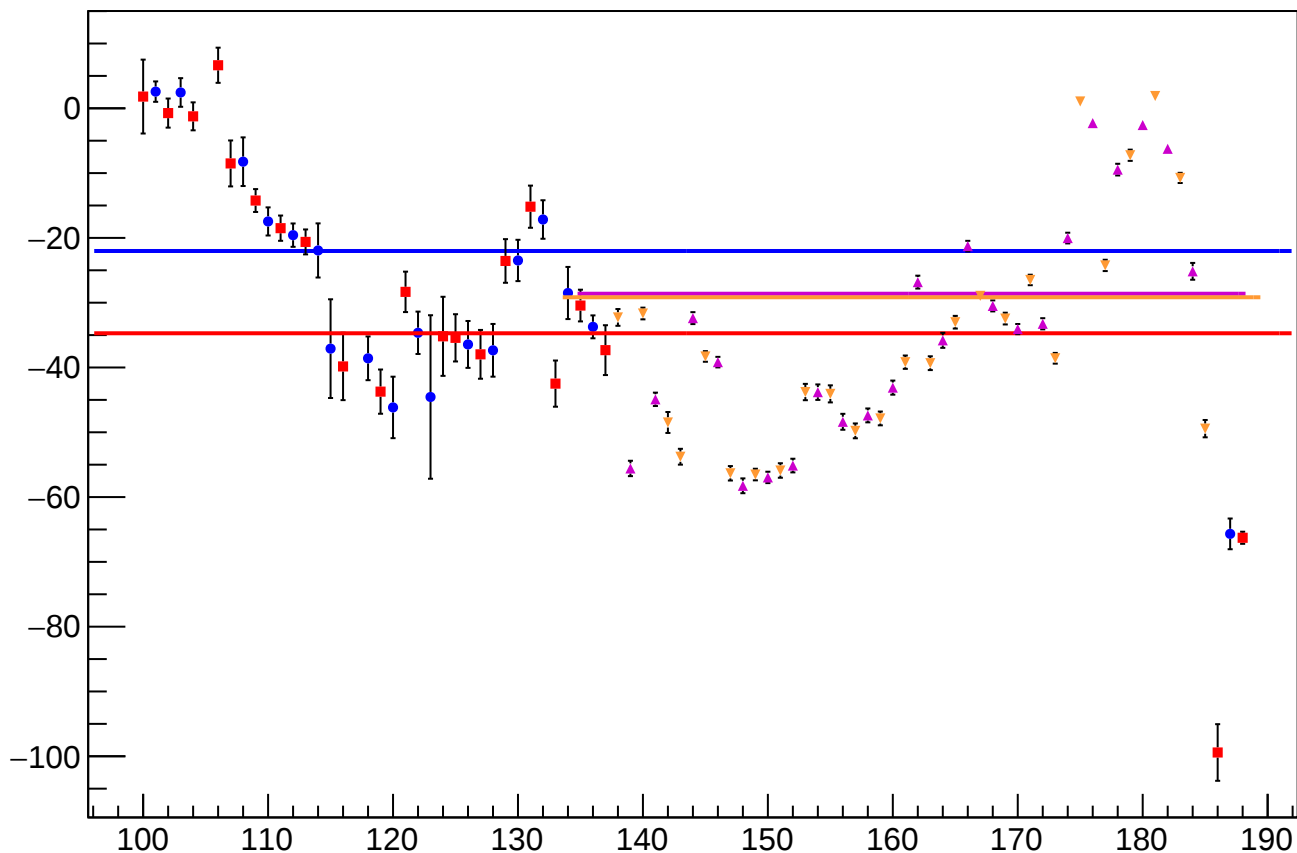
Right: 32.822 $\pm$ 0.263 χ^2 /NDF: 1241.0/38

In: 34.570 $\pm$ 0.141 χ^2 /NDF:3165.6/40

Out: 34.531 $\pm$ 0.137 χ^2 /NDF:4492.3/45

All: 34.550 $\pm$ 0.098 χ^2 /NDF: 7657.9/86

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -22.021 ± 0.644 χ^2/NDF : 877.1/17

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -34.719 ± 0.527 χ^2/NDF : 2484.2/20

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

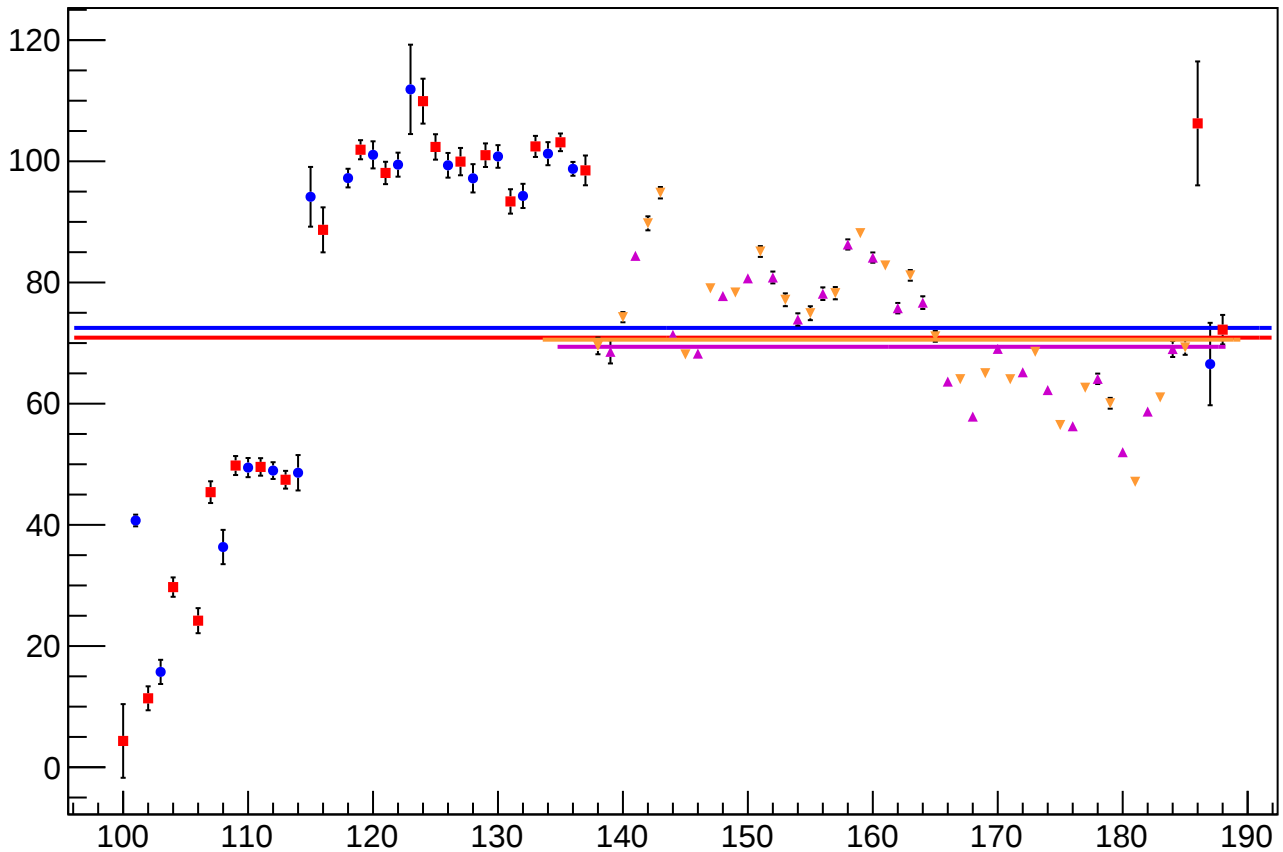
Right: -29.626 ± 0.408 χ^2/NDF : 3594.6/38

In: -28.089 ± 0.182 χ^2/NDF : 10014.7/40

Out: -29.785 ± 0.176 χ^2/NDF : 12709.1/45

All: -28.964 ± 0.127 χ^2/NDF : 22768.6/86

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 72.505 $\pm$ 0.428 χ^2 /NDF: 4673.0/17

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF:4589.1/24

Right Out: 70.896 $\pm$ 0.427 χ^2 /NDF: 5506.9/20

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

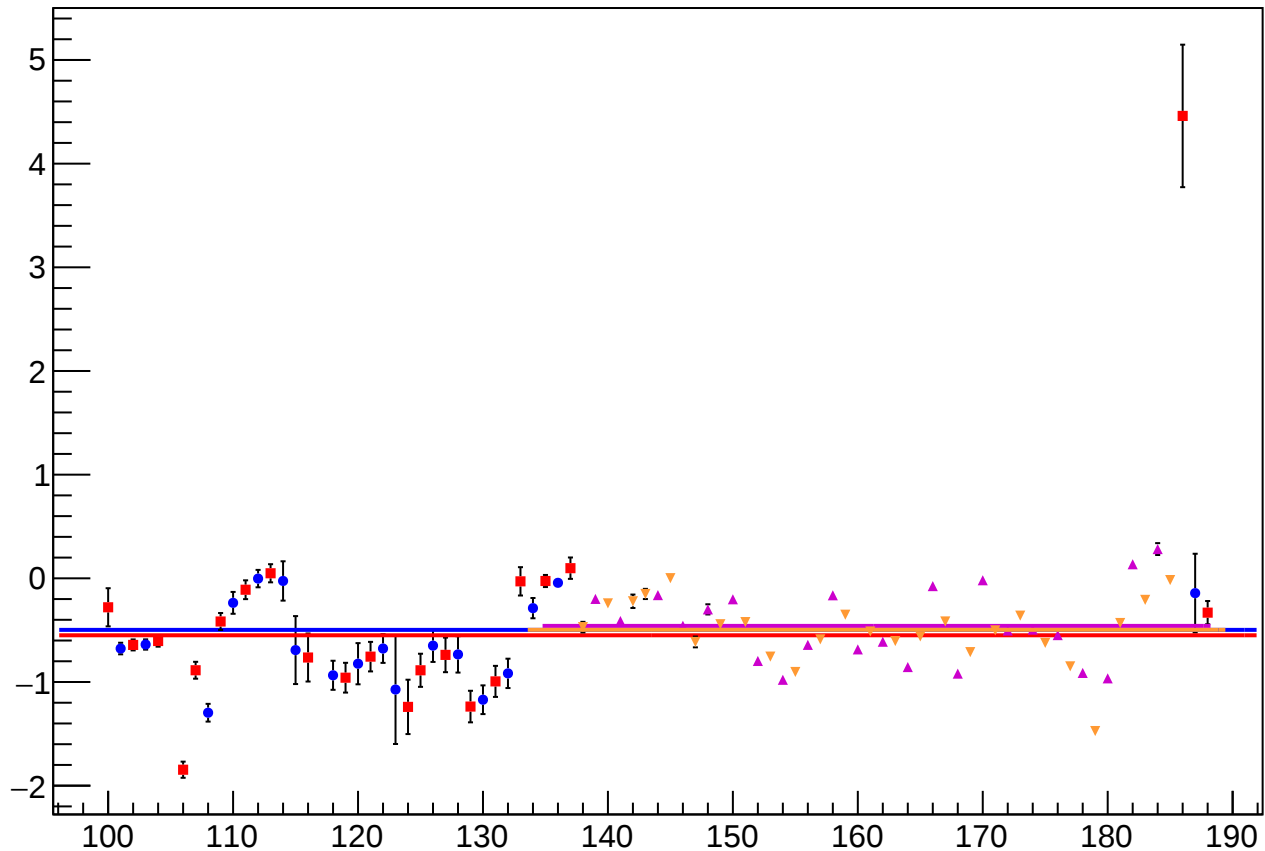
Right: 71.698 $\pm$ 0.302 χ^2 /NDF: 10186.9/38

In: 69.813 $\pm$ 0.158 χ^2 /NDF:8040.6/40

Out: 70.607 $\pm$ 0.155 χ^2 /NDF:10096.5/45

All: 70.218 $\pm$ 0.111 χ^2 /NDF: 18149.9/86

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.497 ± 0.022 χ^2/NDF : 303.0/17

Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24

Right Out: -0.549 ± 0.021 χ^2/NDF : 617.6/20

Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47

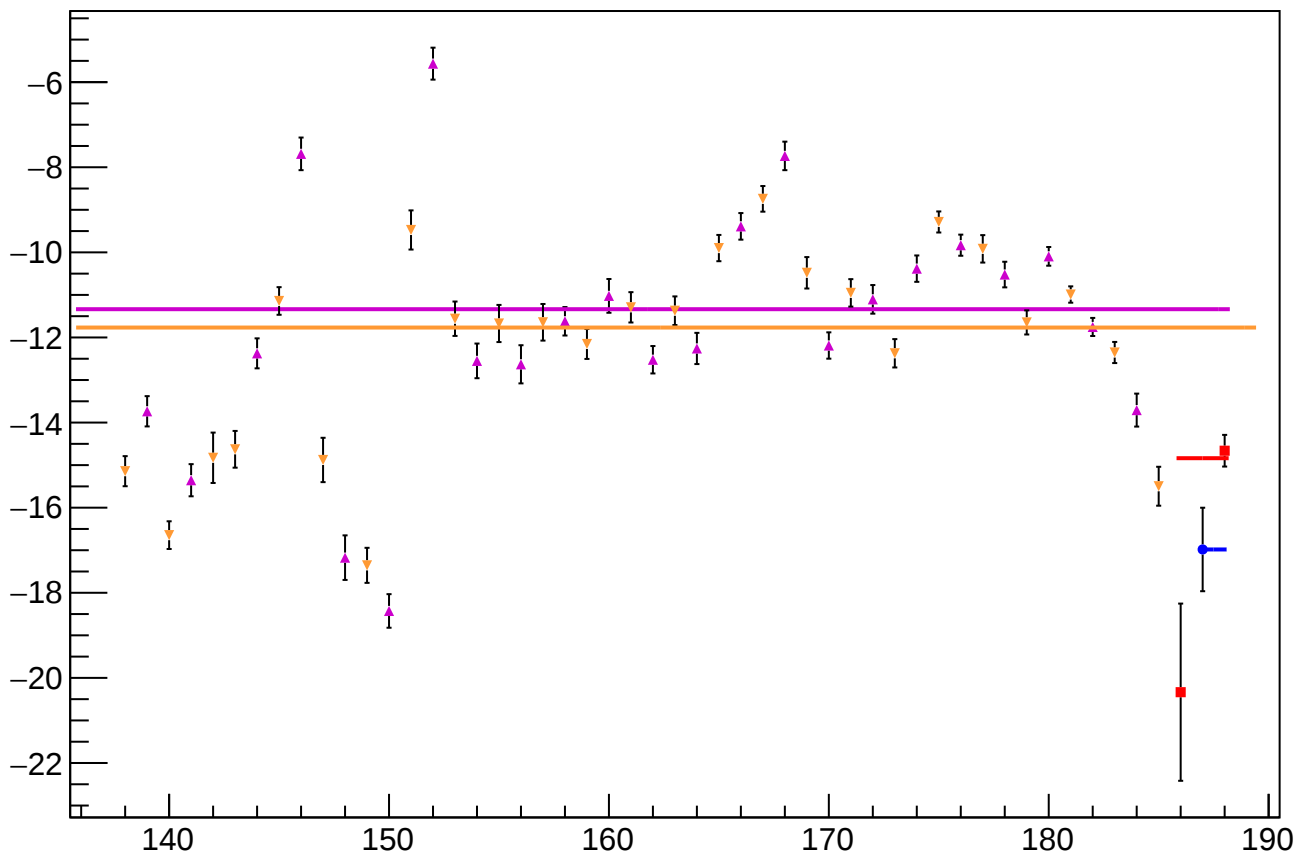
Right: -0.525 ± 0.015 χ^2/NDF : 923.4/38

In: -0.463 ± 0.007 χ^2/NDF : 2264.1/40

Out: -0.503 ± 0.007 χ^2/NDF : 2072.4/45

All: -0.483 ± 0.005 χ^2/NDF : 4351.6/86

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -16.982 ± 0.981 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -14.837 ± 0.366 $\chi^2/\text{NDF}: 7.2/1$
 Left In: -11.336 ± 0.068 $\chi^2/\text{NDF}: 1269.3/22$

Left: -11.556 ± 0.048 $\chi^2/\text{NDF}: 2310.6/47$

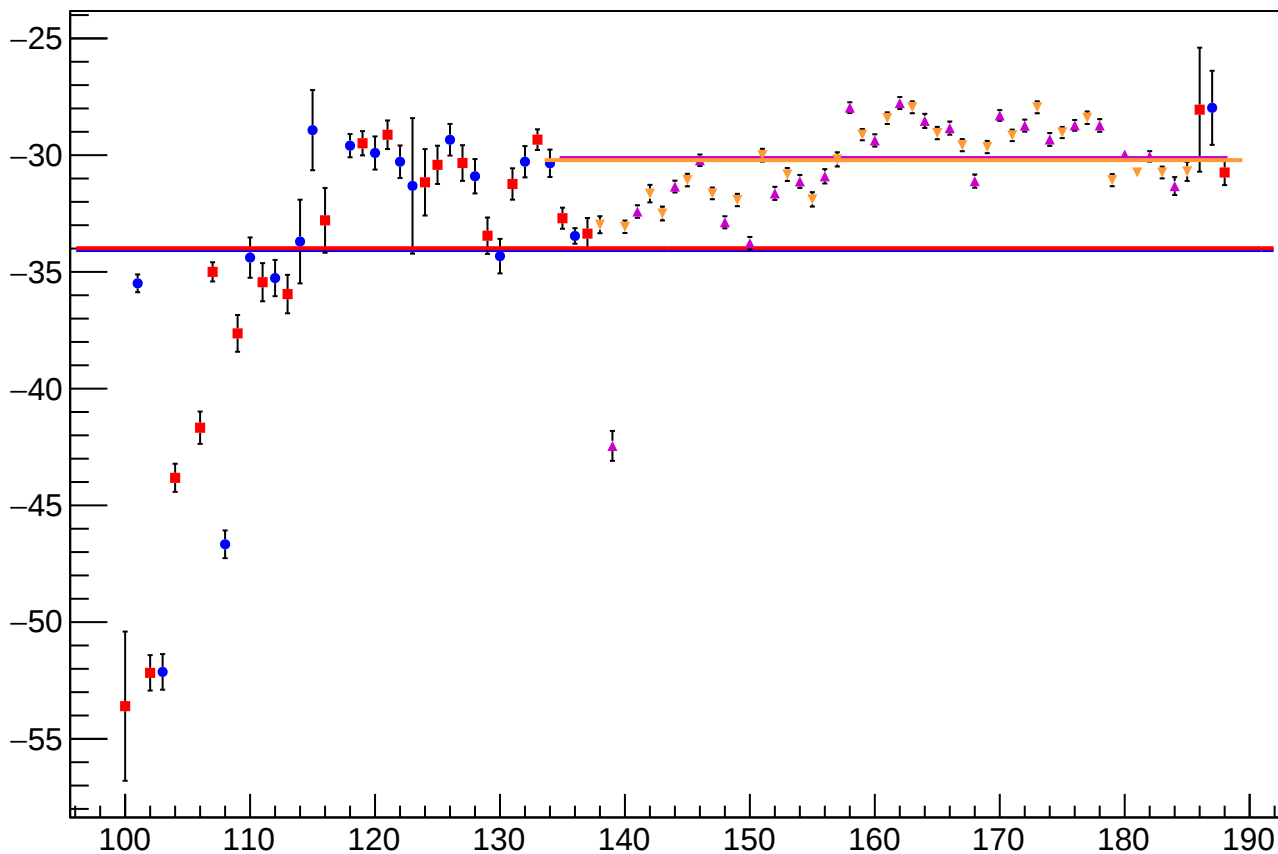
Right: -15.100 ± 0.343 $\chi^2/\text{NDF}: 11.4/2$

In: -11.363 ± 0.068 $\chi^2/\text{NDF}: 1302.3/23$

Out: -11.865 ± 0.066 $\chi^2/\text{NDF}: 1096.0/26$

All: -11.623 ± 0.047 $\chi^2/\text{NDF}: 2426.6/50$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.064 ± 0.151 χ^2/NDF : 1339.2/17

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -33.986 ± 0.145 χ^2/NDF : 1400.4/20

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

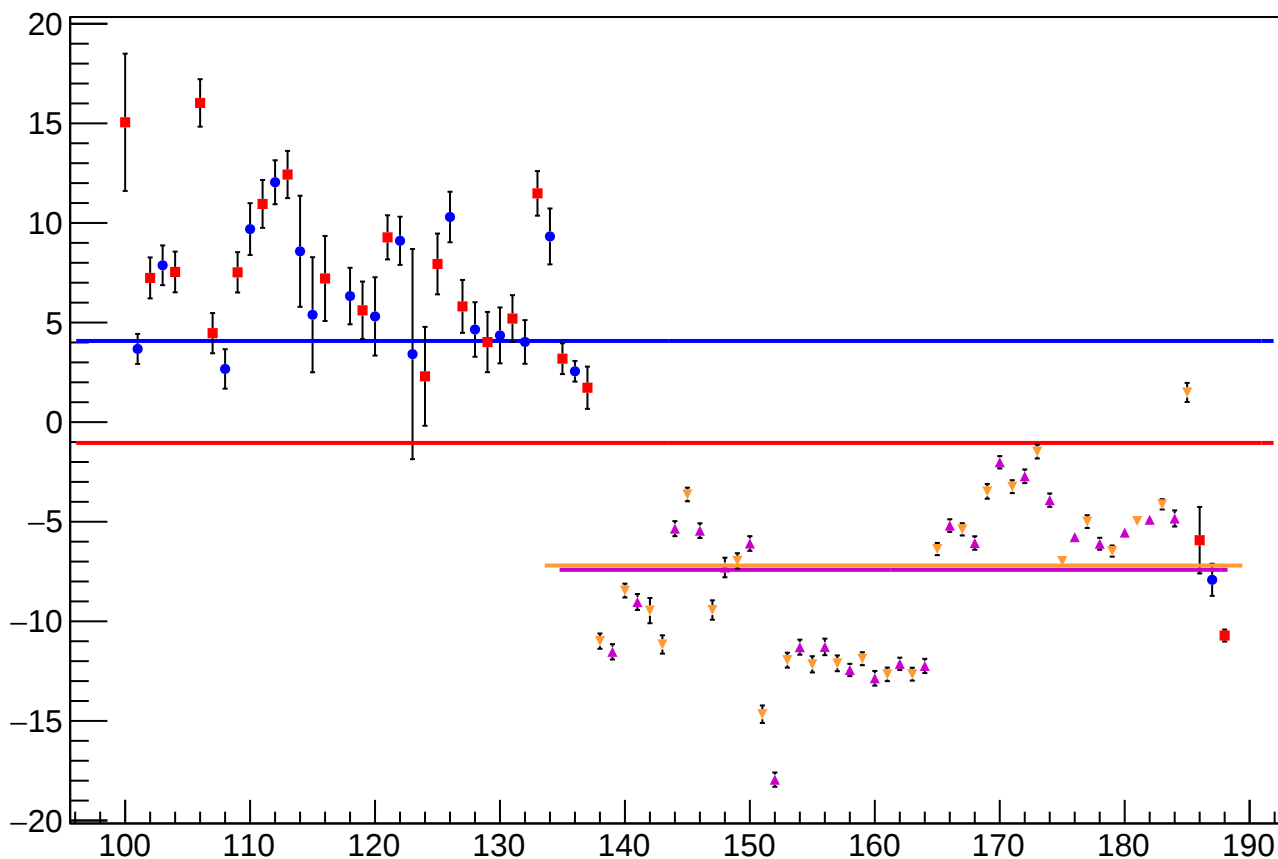
Right: -34.023 ± 0.105 χ^2/NDF : 2739.8/38

In: -30.591 ± 0.052 χ^2/NDF : 3163.4/40

Out: -30.668 ± 0.050 χ^2/NDF : 2728.1/45

All: -30.631 ± 0.036 χ^2/NDF : 5892.6/86

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

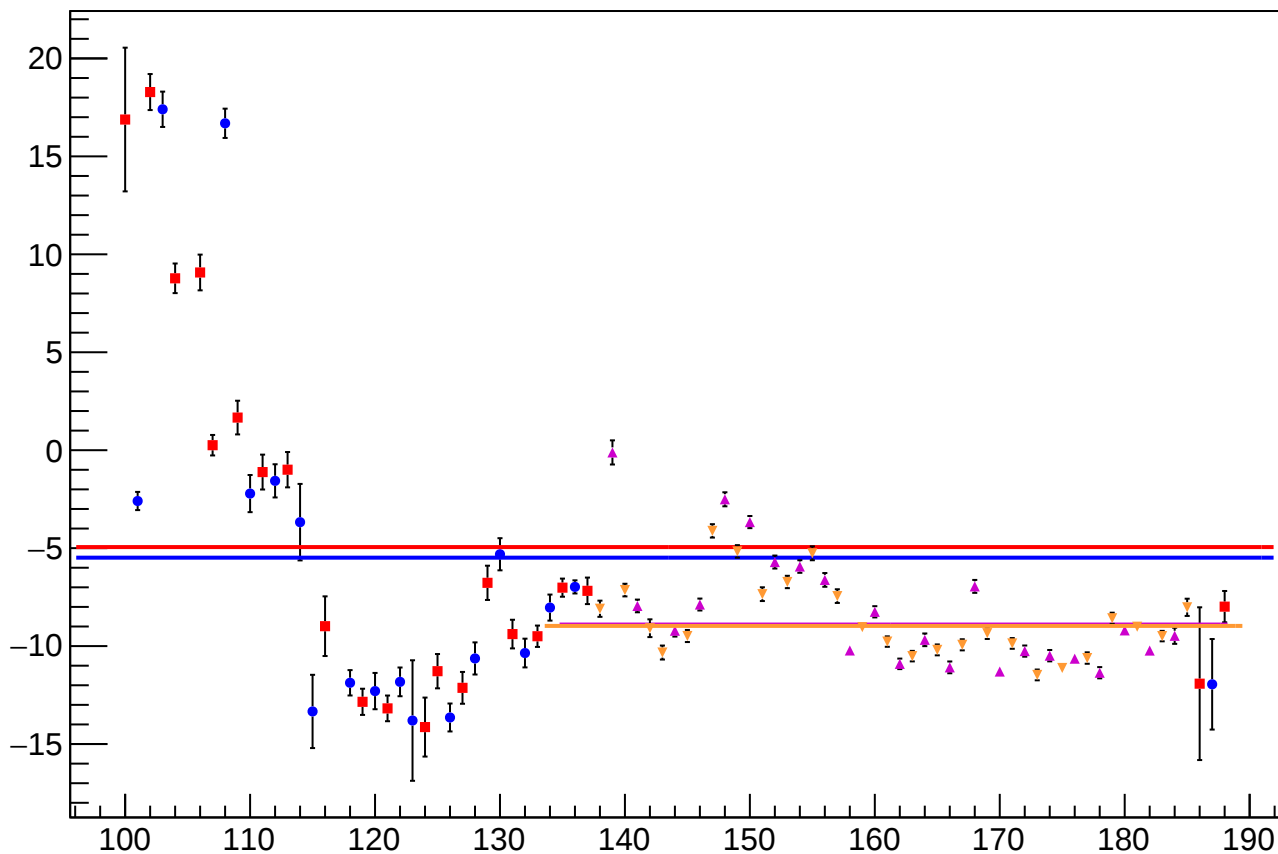


Right In: 4.076 ± 0.257 $\chi^2/\text{NDF}: 378.6/17$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -1.042 ± 0.201 $\chi^2/\text{NDF}: 2126.0/20$
 Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$
 Right: 0.907 ± 0.158 $\chi^2/\text{NDF}: 2750.9/38$
 In: -6.664 ± 0.066 $\chi^2/\text{NDF}: 5375.7/40$
 Out: -6.587 ± 0.063 $\chi^2/\text{NDF}: 6006.1/45$

All: -6.624 ± 0.046 $\chi^2/\text{NDF}: 11382.4/86$

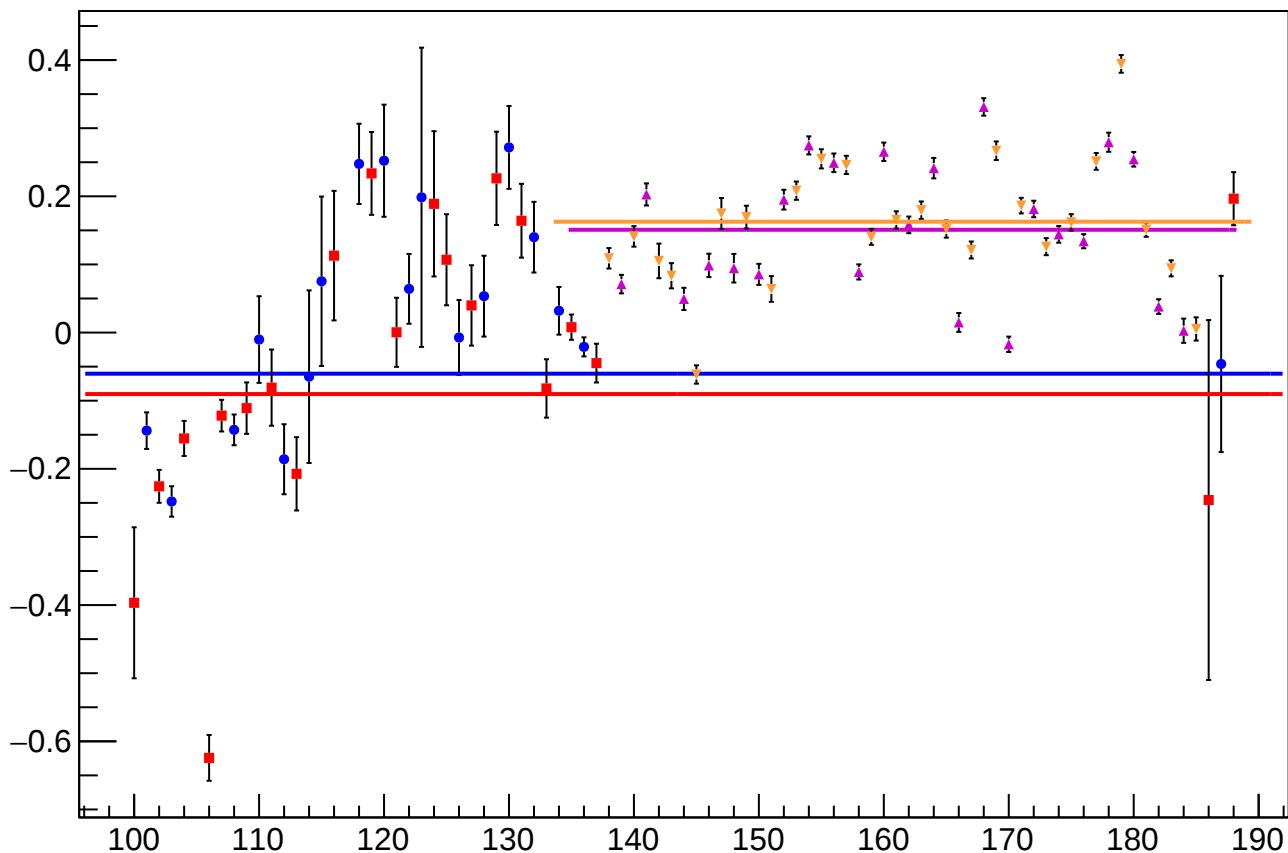
reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.486 ± 0.171 $\chi^2/\text{NDF}: 2104.9/17$
 Left Out: -8.970 ± 0.060 $\chi^2/\text{NDF}: 878.8/24$
 Right Out: -4.945 ± 0.169 $\chi^2/\text{NDF}: 2066.0/20$
 Left In: -8.900 ± 0.062 $\chi^2/\text{NDF}: 1533.9/22$

Left: -8.936 ± 0.043 $\chi^2/\text{NDF}: 2413.4/47$
 Right: -5.213 ± 0.120 $\chi^2/\text{NDF}: 4176.0/38$
 In: -8.506 ± 0.058 $\chi^2/\text{NDF}: 3993.2/40$
 Out: -8.518 ± 0.057 $\chi^2/\text{NDF}: 3447.6/45$
 All: -8.512 ± 0.041 $\chi^2/\text{NDF}: 7440.9/86$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.060 ± 0.008 χ^2/NDF : 214.5/17

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.090 ± 0.008 χ^2/NDF : 490.1/20

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

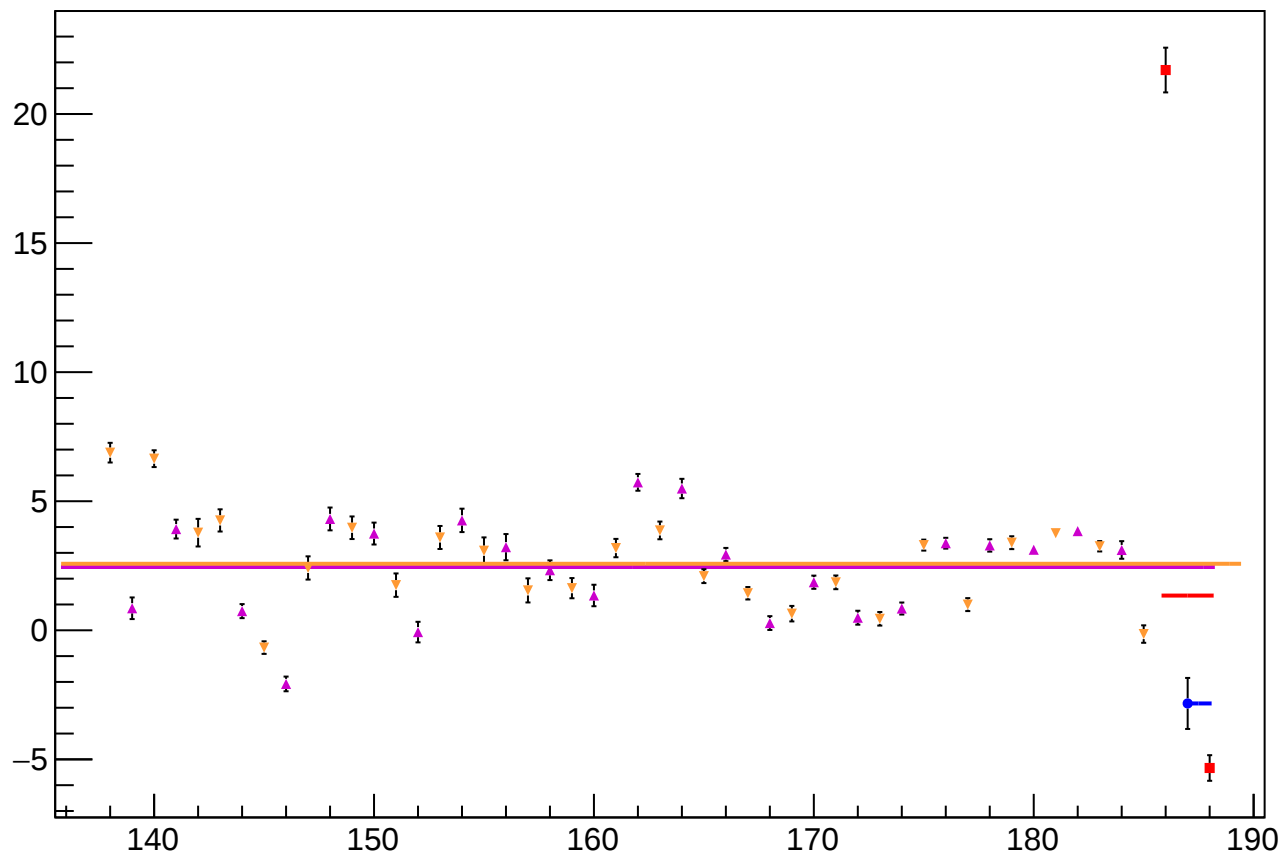
Right: -0.076 ± 0.006 χ^2/NDF : 711.1/38

In: 0.130 ± 0.003 χ^2/NDF : 2072.8/40

Out: 0.138 ± 0.003 χ^2/NDF : 2356.0/45

All: 0.134 ± 0.002 χ^2/NDF : 4433.1/86

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.834 ± 0.988 χ^2/NDF : 0.0/0

Left Out: 2.577 ± 0.058 χ^2/NDF : 867.5/24

Right Out: 1.345 ± 0.431 χ^2/NDF : 733.1/1

Left In: 2.452 ± 0.059 χ^2/NDF : 871.3/22

Left: 2.516 ± 0.042 χ^2/NDF : 1741.0/47

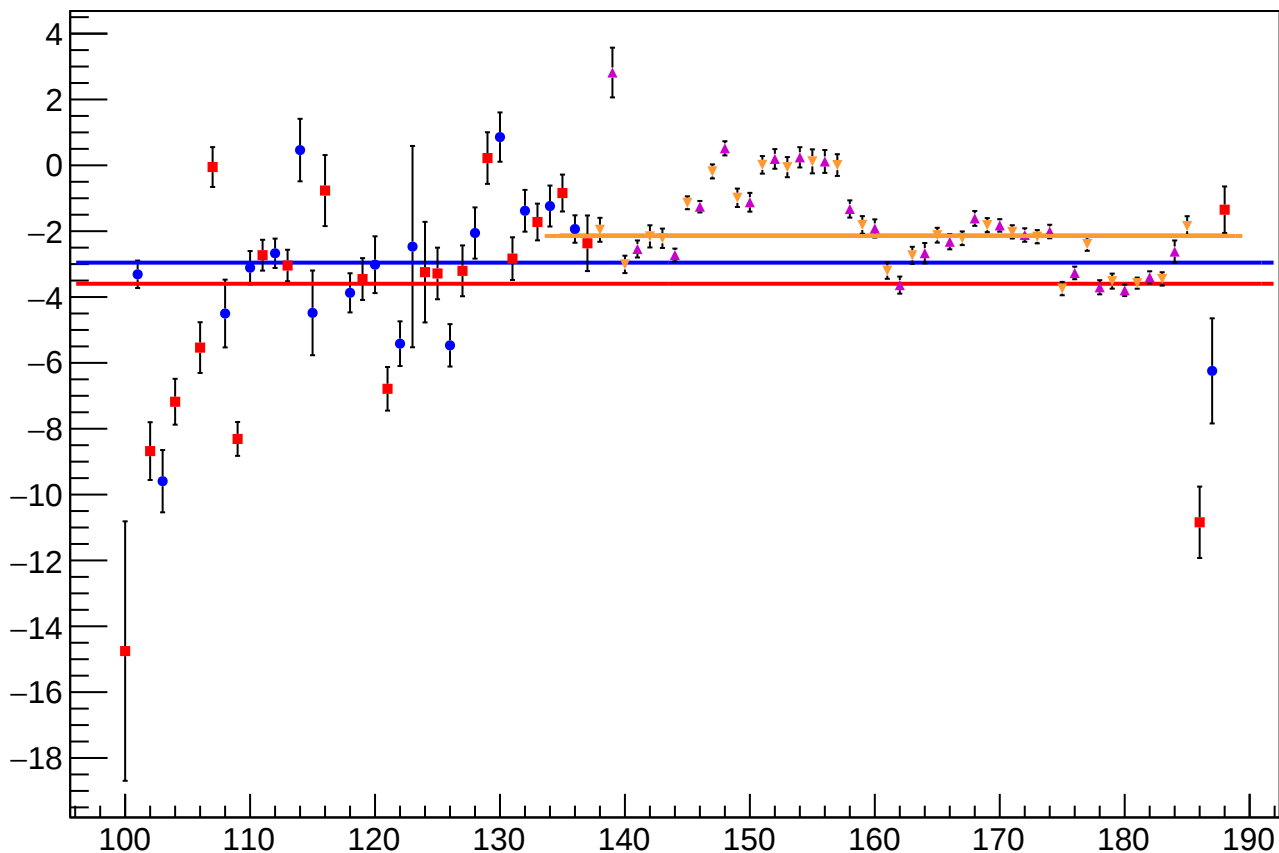
Right: 0.678 ± 0.395 χ^2/NDF : 748.1/2

In: 2.433 ± 0.059 χ^2/NDF : 899.8/23

Out: 2.555 ± 0.058 χ^2/NDF : 1608.6/26

All: 2.495 ± 0.041 χ^2/NDF : 2510.5/50

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.956 ± 0.154 $\chi^2/\text{NDF}: 149.2/17$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -3.597 ± 0.150 $\chi^2/\text{NDF}: 345.7/20$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

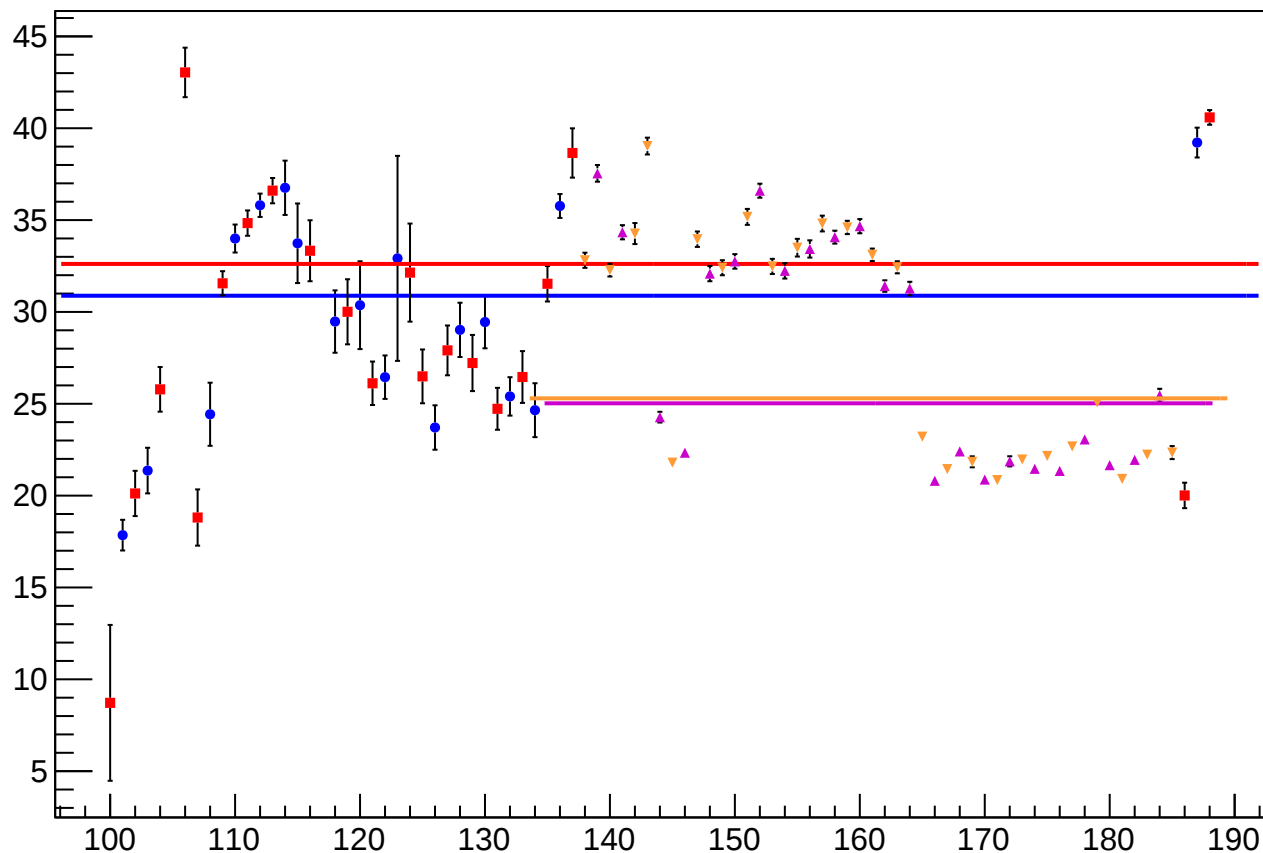
Right: -3.286 ± 0.107 $\chi^2/\text{NDF}: 503.8/38$

In: -2.210 ± 0.046 $\chi^2/\text{NDF}: 866.1/40$

Out: -2.279 ± 0.045 $\chi^2/\text{NDF}: 1004.4/45$

All: -2.245 ± 0.032 $\chi^2/\text{NDF}: 1871.6/86$

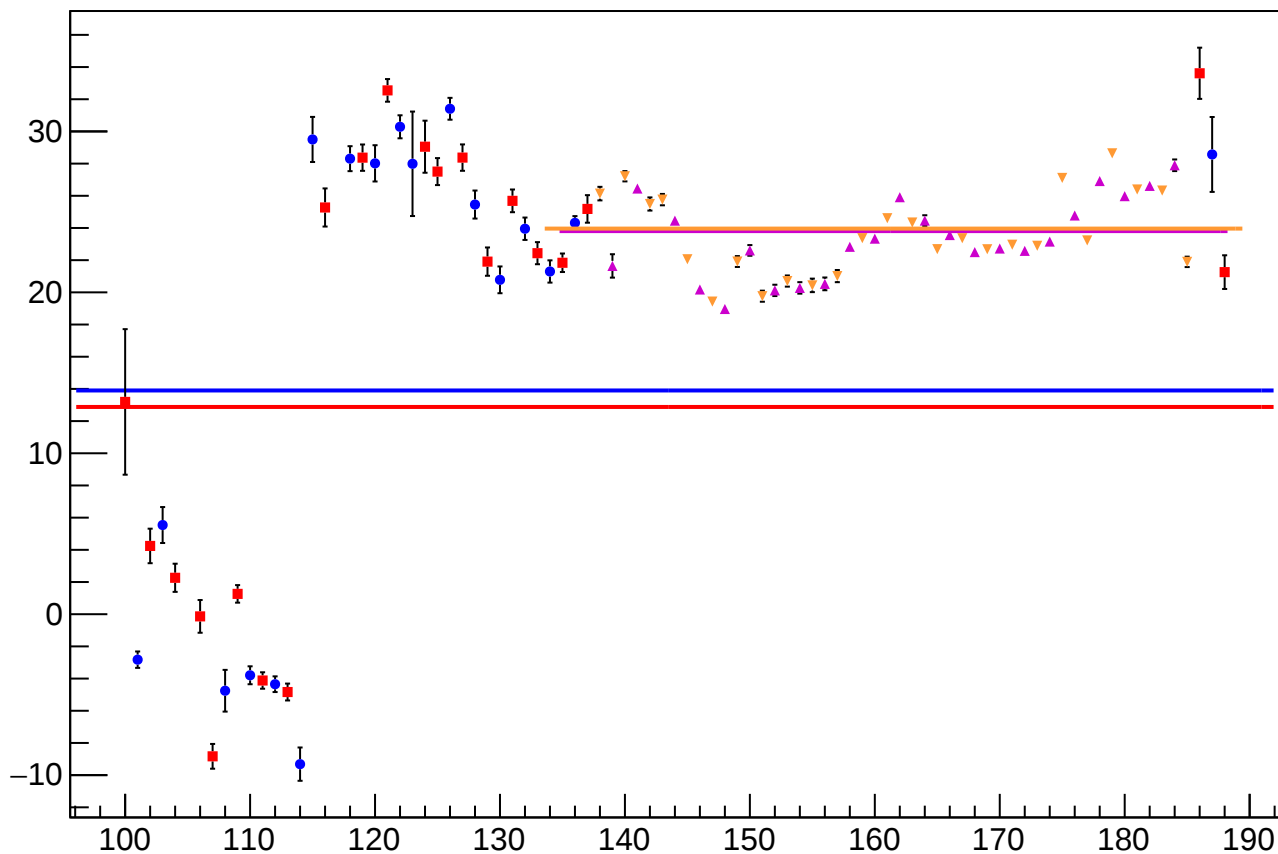
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.882 $\pm$ 0.254 χ^2 /NDF: 670.8/17
 Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF: 8272.3/24
 Right Out: 32.613 $\pm$ 0.208 χ^2 /NDF: 1244.4/20
 Left In: 25.025 $\pm$ 0.060 χ^2 /NDF: 7610.5/22

Left: 25.162 $\pm$ 0.042 χ^2 /NDF: 15893.3/47
 Right: 31.918 $\pm$ 0.161 χ^2 /NDF: 1943.0/38
 In: 25.330 $\pm$ 0.058 χ^2 /NDF: 8784.0/40
 Out: 25.837 $\pm$ 0.057 χ^2 /NDF: 10660.7/45
 All: 25.590 $\pm$ 0.041 χ^2 /NDF: 19483.8/86

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.903 $\pm$ 0.173 χ^2 /NDF: 7314.6/17

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 12.879 $\pm$ 0.171 χ^2 /NDF: 7194.3/20

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

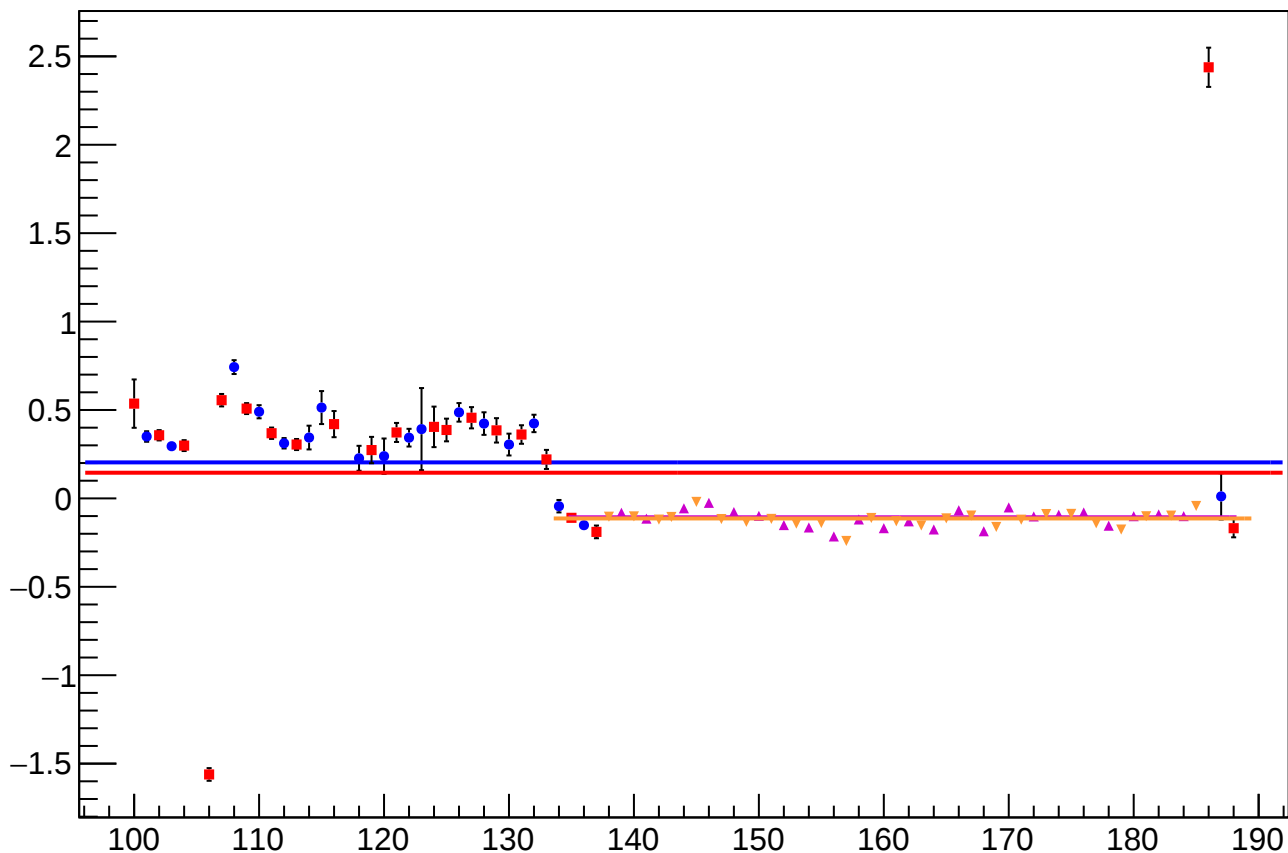
Right: 13.385 $\pm$ 0.121 χ^2 /NDF: 14526.7/38

In: 22.921 $\pm$ 0.052 χ^2 /NDF:12075.4/40

Out: 22.982 $\pm$ 0.051 χ^2 /NDF:12961.8/45

All: 22.952 $\pm$ 0.036 χ^2 /NDF: 25038.0/86

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.204 ± 0.009 $\chi^2/\text{NDF}: 848.6/17$

Left Out: -0.113 ± 0.002 $\chi^2/\text{NDF}: 291.0/24$

Right Out: 0.145 ± 0.009 $\chi^2/\text{NDF}: 3478.2/20$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

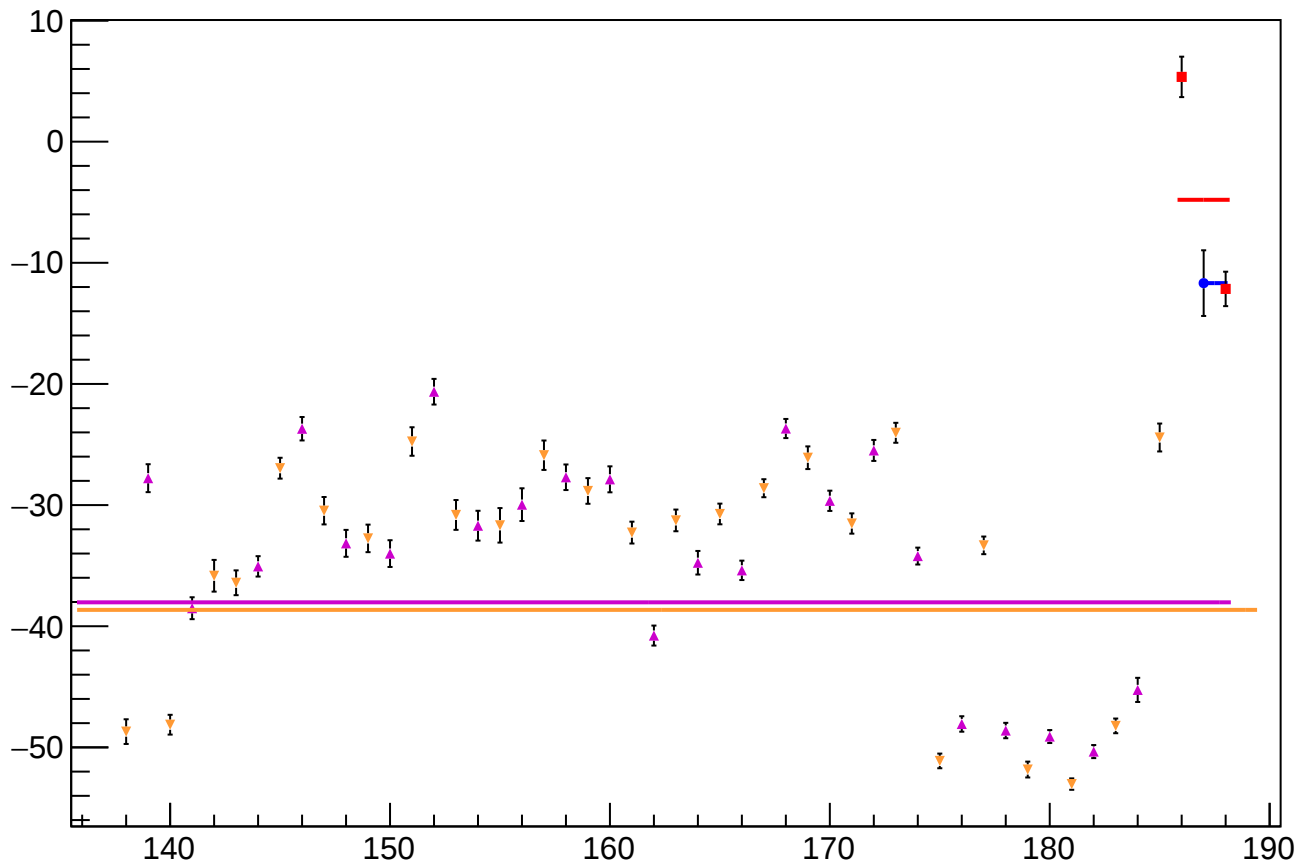
Right: 0.173 ± 0.007 $\chi^2/\text{NDF}: 4346.9/38$

In: -0.087 ± 0.002 $\chi^2/\text{NDF}: 2198.2/40$

Out: -0.096 ± 0.002 $\chi^2/\text{NDF}: 4532.4/45$

All: -0.091 ± 0.002 $\chi^2/\text{NDF}: 6738.9/86$

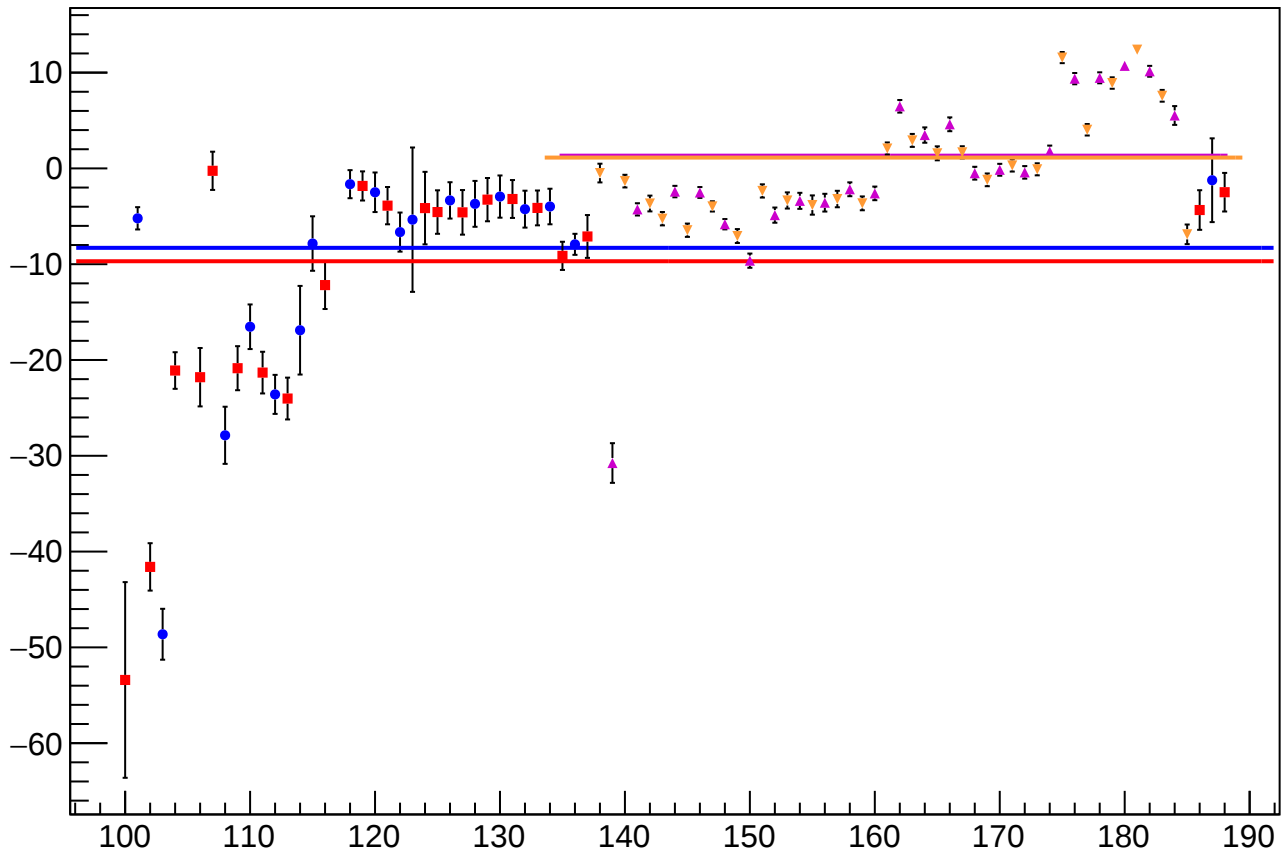
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.678 ± 2.711 χ^2/NDF : 0.0/0
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -4.800 ± 1.082 χ^2/NDF : 63.7/1
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -5.745 ± 1.005 χ^2/NDF : 69.3/2
 In: -37.920 ± 0.173 χ^2/NDF : 3186.0/23
 Out: -37.843 ± 0.167 χ^2/NDF : 5096.2/26
 All: -37.880 ± 0.120 χ^2/NDF : 8282.3/50

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.293 ± 0.464 χ^2/NDF : 411.1/17

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -9.692 ± 0.465 χ^2/NDF : 451.5/20

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

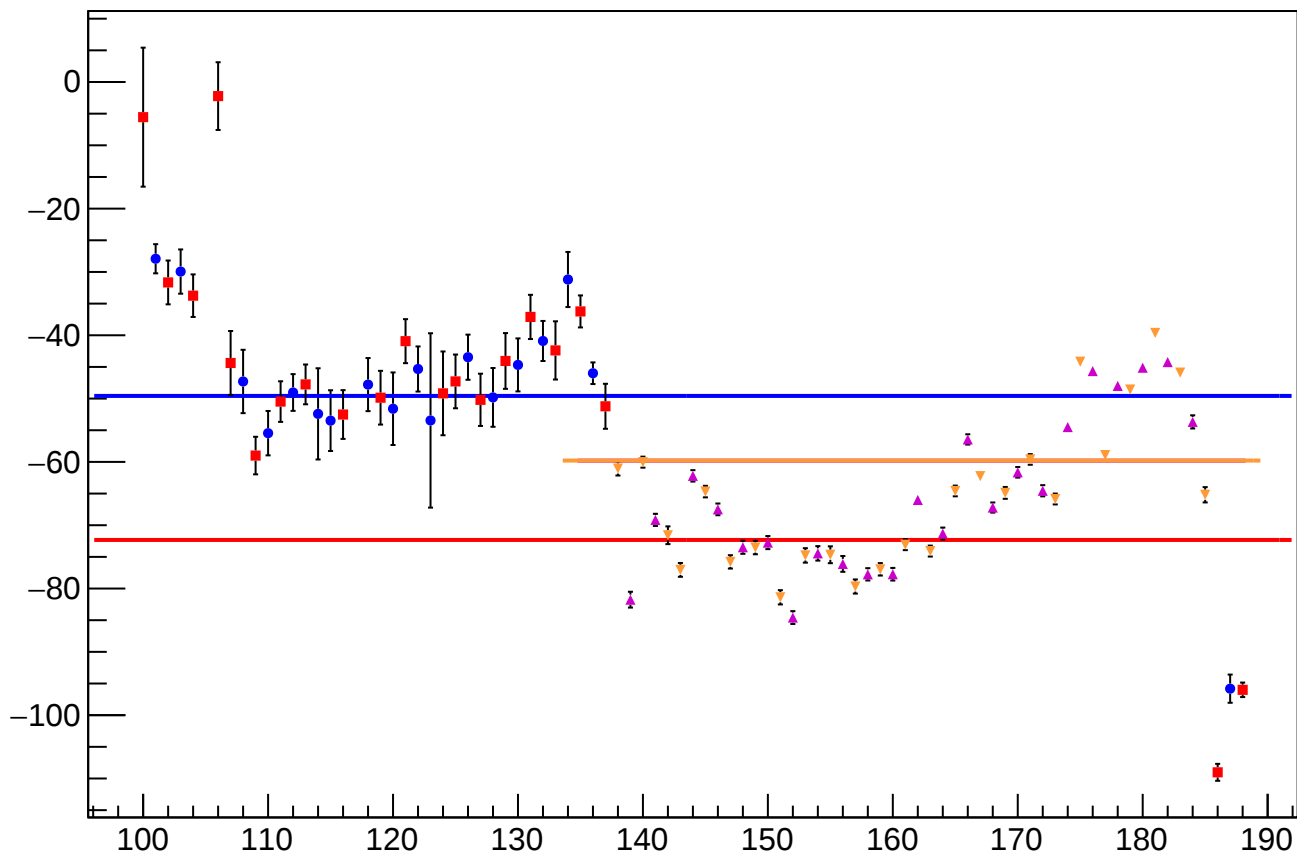
Right: -8.990 ± 0.329 χ^2/NDF : 867.2/38

In: 0.528 ± 0.134 χ^2/NDF : 2853.5/40

Out: 0.279 ± 0.131 χ^2/NDF : 2749.0/45

All: 0.400 ± 0.093 χ^2/NDF : 5604.2/86

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -49.579 $\pm$ 0.785 χ^2 /NDF: 590.8/17

Left Out: -59.789 $\pm$ 0.170 χ^2 /NDF: 5837.7/24

Right Out: -72.326 $\pm$ 0.615 χ^2 /NDF: 2452.4/20

Left In: -59.802 $\pm$ 0.173 χ^2 /NDF: 5217.5/22

Left: -59.795 $\pm$ 0.121 χ^2 /NDF: 11055.3/47

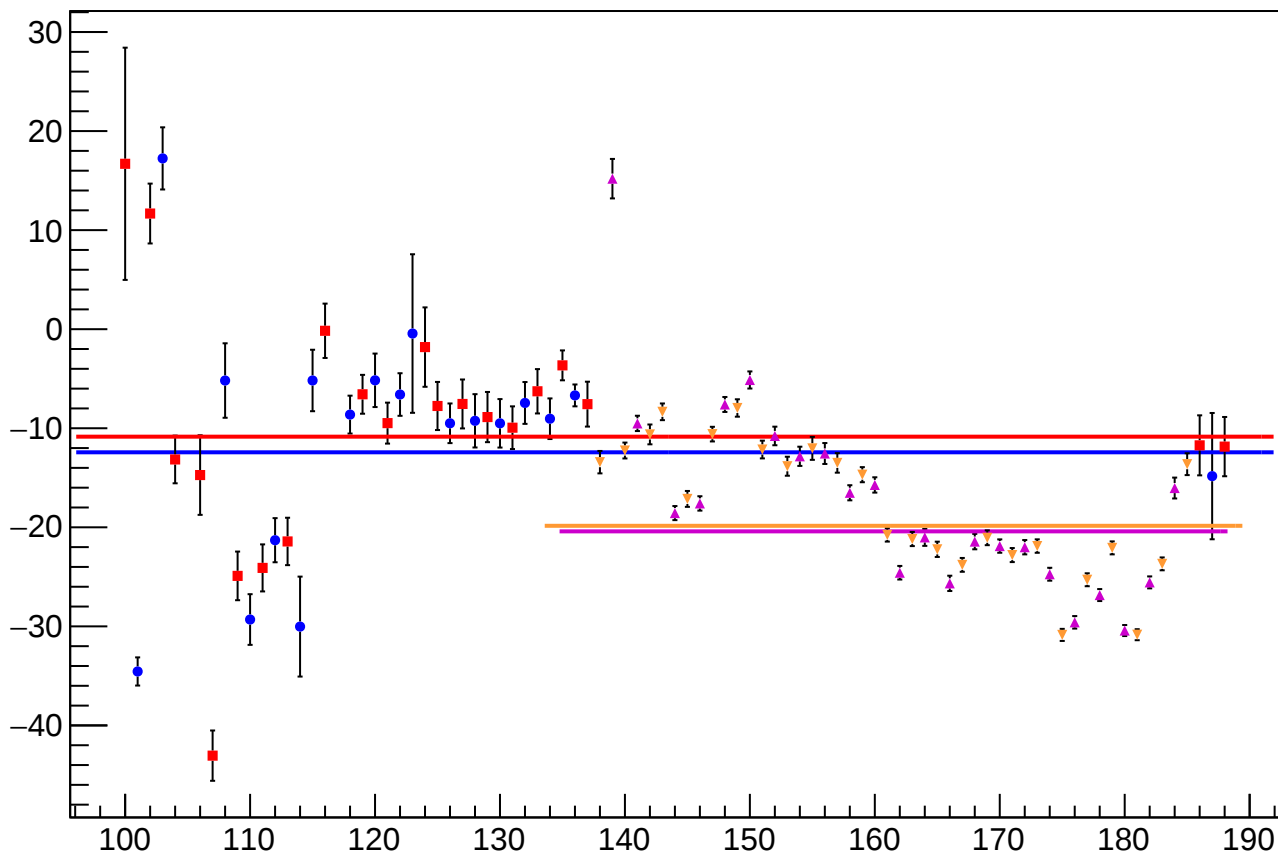
Right: -63.675 $\pm$ 0.484 χ^2 /NDF: 3564.0/38

In: -59.327 $\pm$ 0.169 χ^2 /NDF: 5970.2/40

Out: -60.681 $\pm$ 0.164 χ^2 /NDF: 8676.6/45

All: -60.025 $\pm$ 0.118 χ^2 /NDF: 14679.8/86

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -12.429 ± 0.522 χ^2/NDF : 473.7/17

Left Out: -19.847 ± 0.153 χ^2/NDF : 1931.3/24

Right Out: -10.849 ± 0.537 χ^2/NDF : 366.1/20

Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47

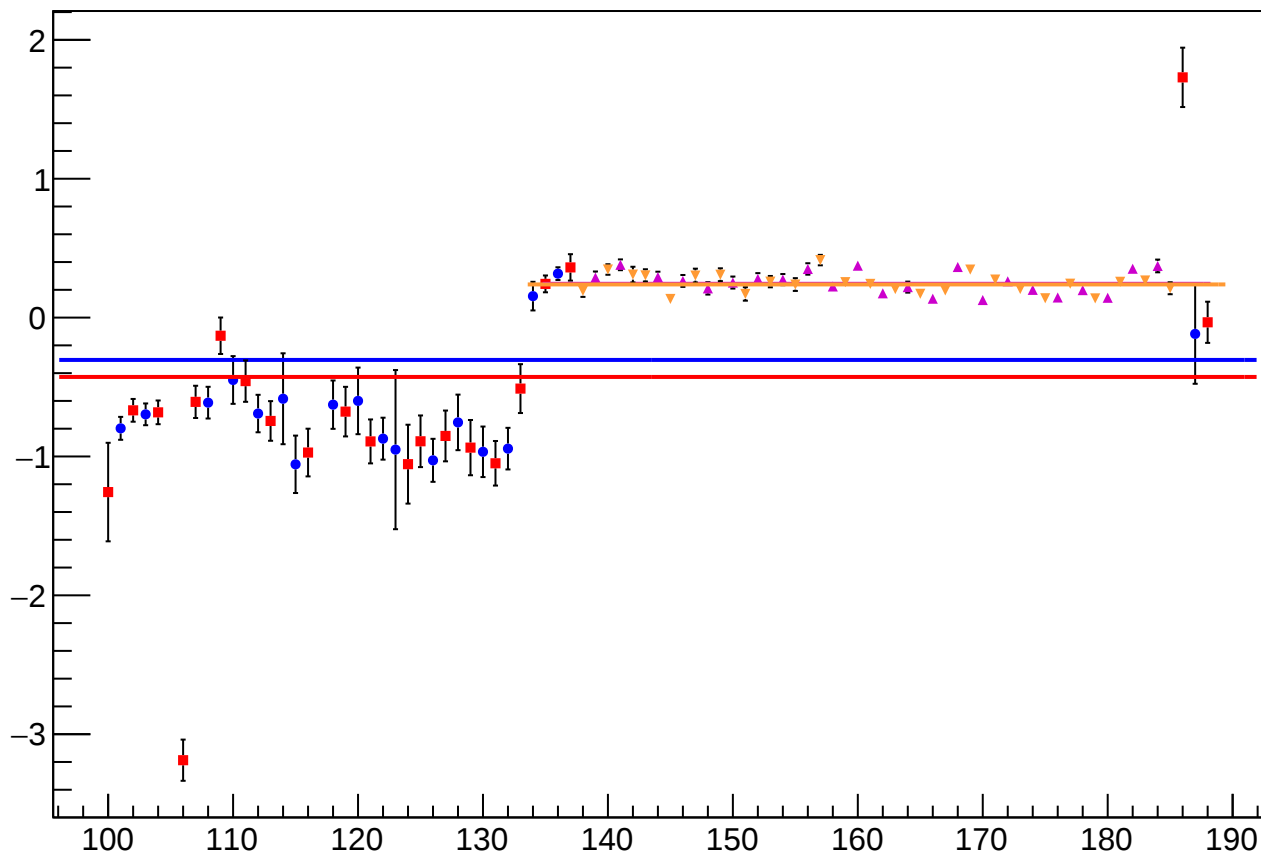
Right: -11.661 ± 0.374 χ^2/NDF : 844.2/38

In: -19.751 ± 0.150 χ^2/NDF : 2990.1/40

Out: -19.173 ± 0.147 χ^2/NDF : 2557.4/45

All: -19.456 ± 0.105 χ^2/NDF : 5555.1/86

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.305 ± 0.028 χ^2/NDF : 371.9/17

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.427 ± 0.028 χ^2/NDF : 740.1/20

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

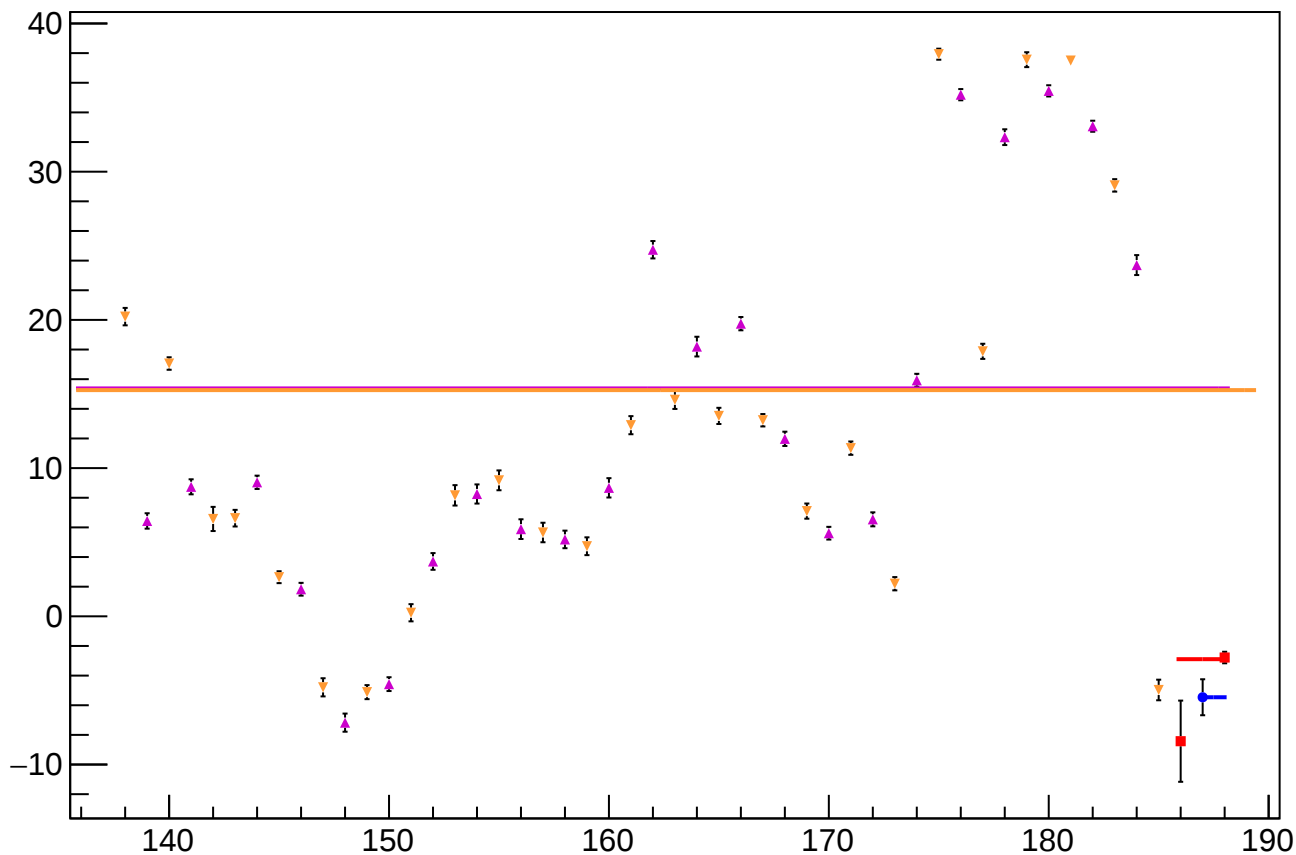
Right: -0.365 ± 0.020 χ^2/NDF : 1121.8/38

In: 0.208 ± 0.007 χ^2/NDF : 882.0/40

Out: 0.199 ± 0.007 χ^2/NDF : 1370.6/45

All: 0.204 ± 0.005 χ^2/NDF : 2253.6/86

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.461 ± 1.214 χ^2/NDF : 0.0/0

Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24

Right Out: -2.892 ± 0.385 χ^2/NDF : 4.2/1

Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47

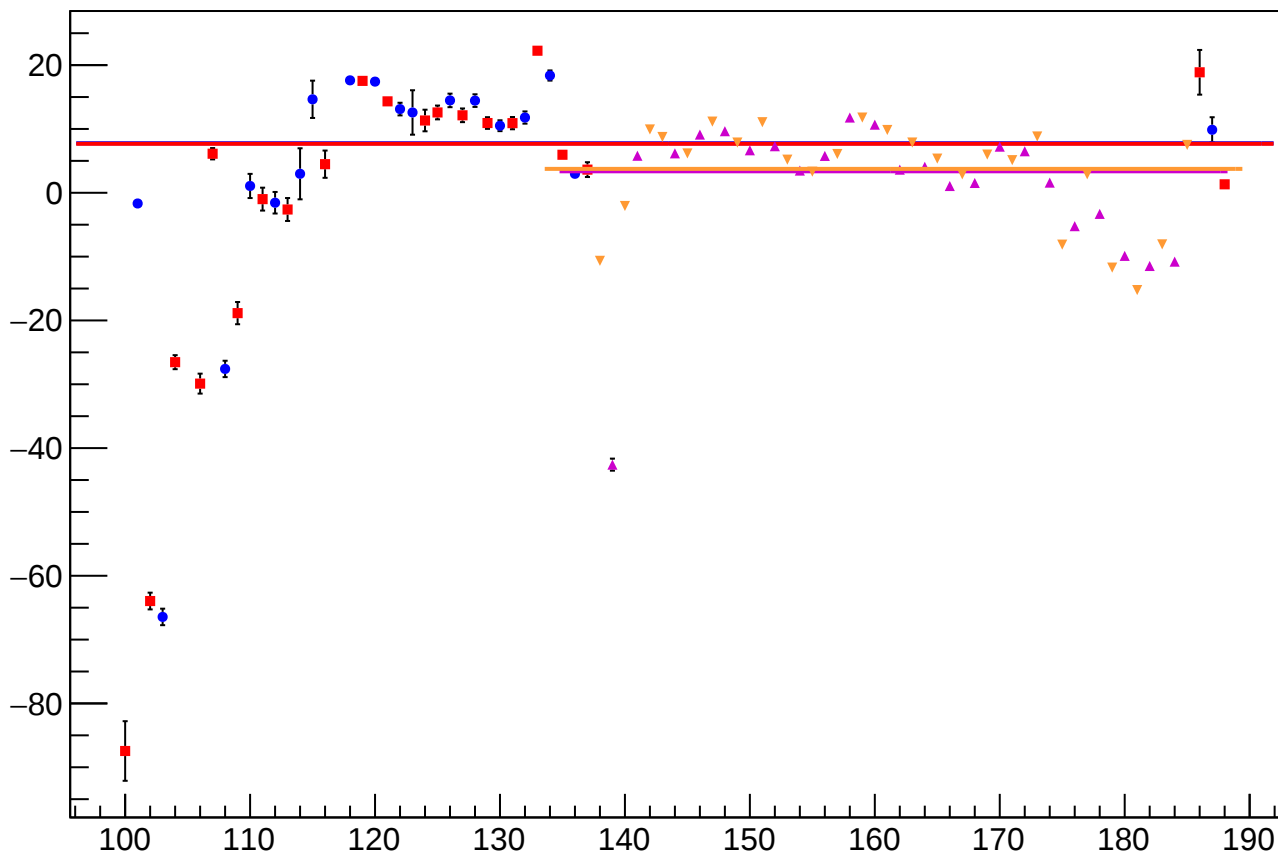
Right: -3.127 ± 0.367 χ^2/NDF : 8.2/2

In: 15.229 ± 0.102 χ^2/NDF : 16561.5/23

Out: 14.105 ± 0.097 χ^2/NDF : 21260.5/26

All: 14.638 ± 0.071 χ^2/NDF : 37885.4/50

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.762 ± 0.217 $\chi^2/\text{NDF}: 5302.5/17$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: 7.674 ± 0.200 $\chi^2/\text{NDF}: 6869.6/20$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

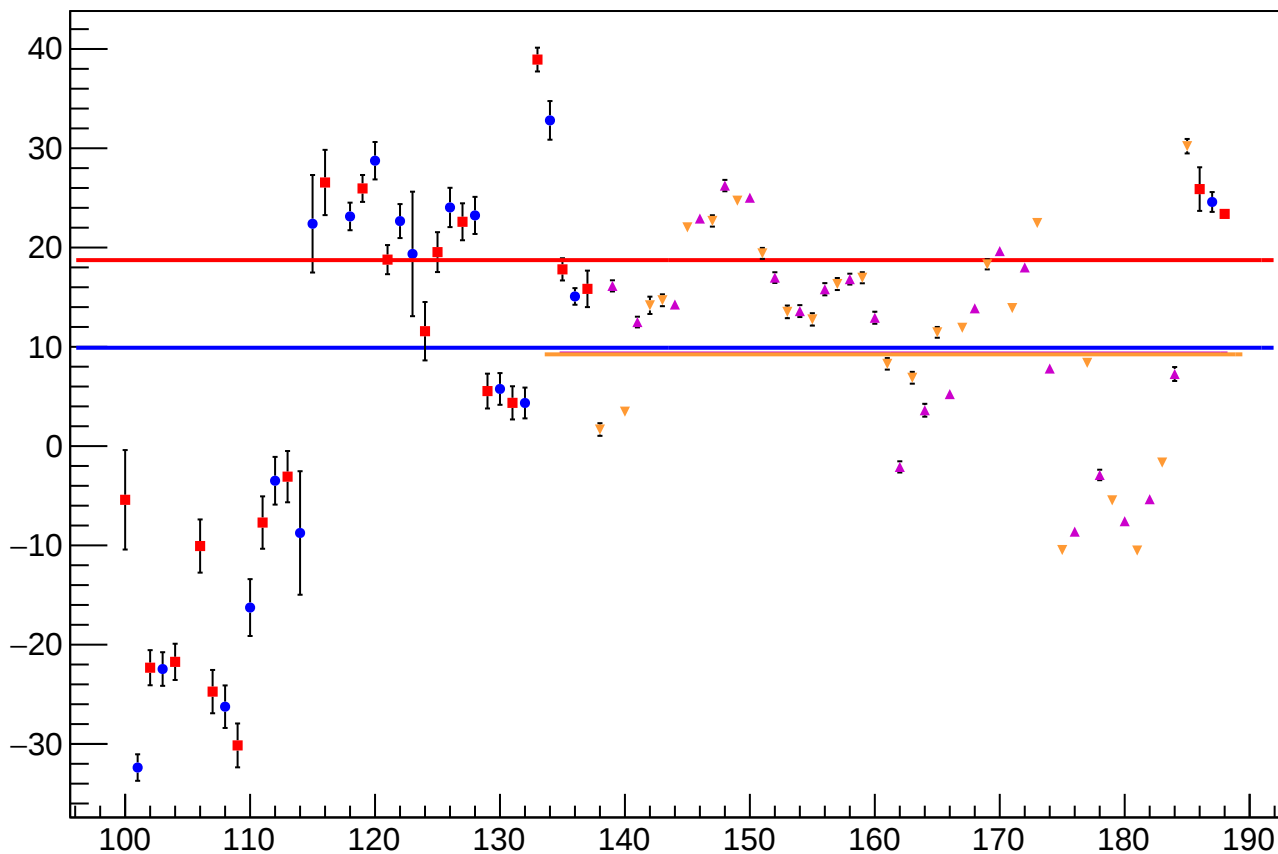
Right: 7.714 ± 0.147 $\chi^2/\text{NDF}: 12172.3/38$

In: 3.906 ± 0.076 $\chi^2/\text{NDF}: 14189.7/40$

Out: 4.274 ± 0.073 $\chi^2/\text{NDF}: 16452.0/45$

All: 4.097 ± 0.053 $\chi^2/\text{NDF}: 30653.9/86$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 9.907 $\pm$ 0.386 χ^2 /NDF: 2546.0/17

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 18.733 $\pm$ 0.250 χ^2 /NDF: 2917.5/20

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

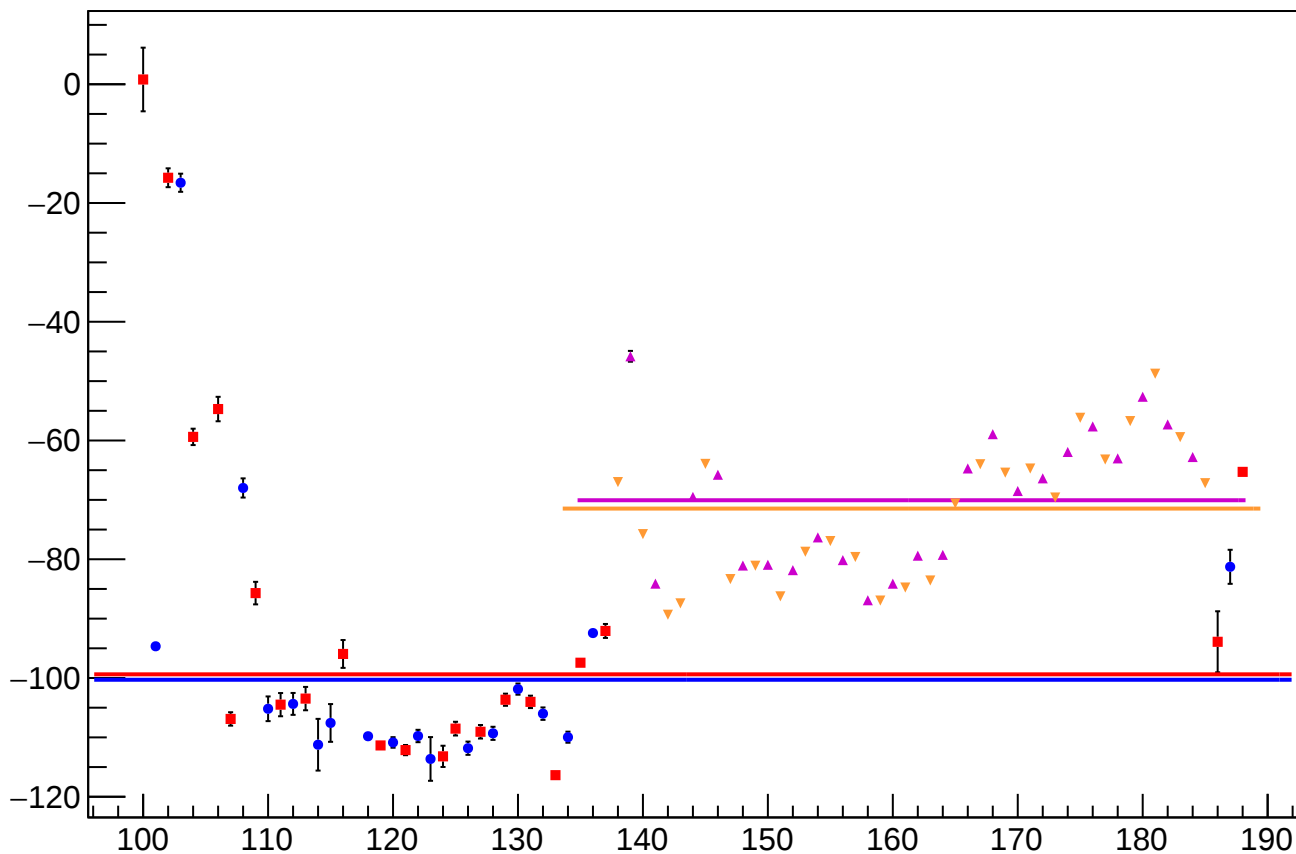
Right: 16.128 $\pm$ 0.210 χ^2 /NDF: 5831.2/38

In: 9.366 $\pm$ 0.099 χ^2 /NDF:14516.6/40

Out: 10.571 $\pm$ 0.094 χ^2 /NDF:17789.5/45

All: 10.003 $\pm$ 0.068 χ^2 /NDF: 32384.2/86

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -100.295+/-0.250 χ^2/NDF : 4503.3/17

Left Out: -71.465+/-0.089 χ^2/NDF :16409.7/24

Right Out: -99.381+/-0.236 χ^2/NDF : 7948.9/20

Left In: -70.061+/-0.092 χ^2/NDF :13058.5/22

Left: -70.782+/-0.064 χ^2/NDF : 29588.5/47

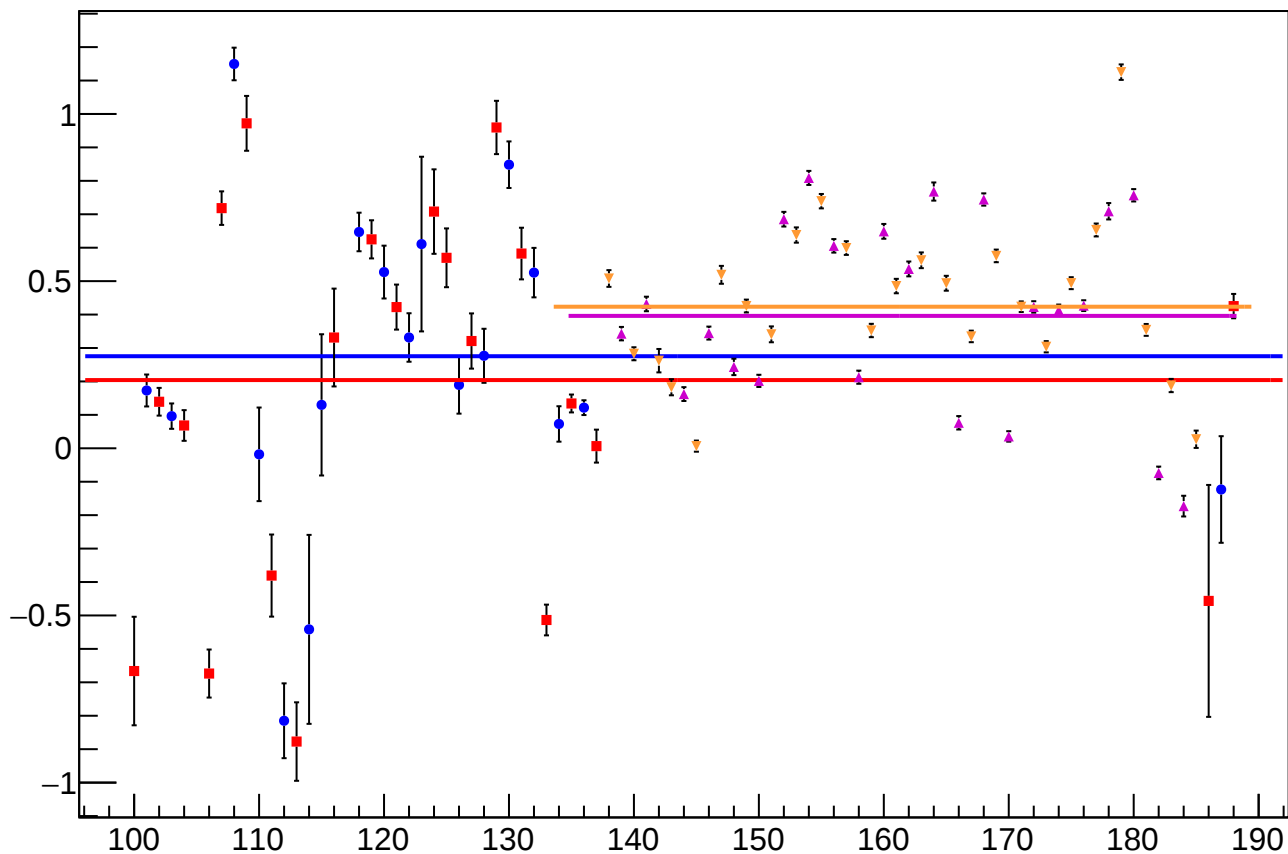
Right: -99.812+/-0.172 χ^2/NDF : 12459.2/38

In: -73.646+/-0.086 χ^2/NDF :30444.4/40

Out: -74.957+/-0.084 χ^2/NDF :36587.2/45

All: -74.322+/-0.060 χ^2/NDF : 67151.1/86

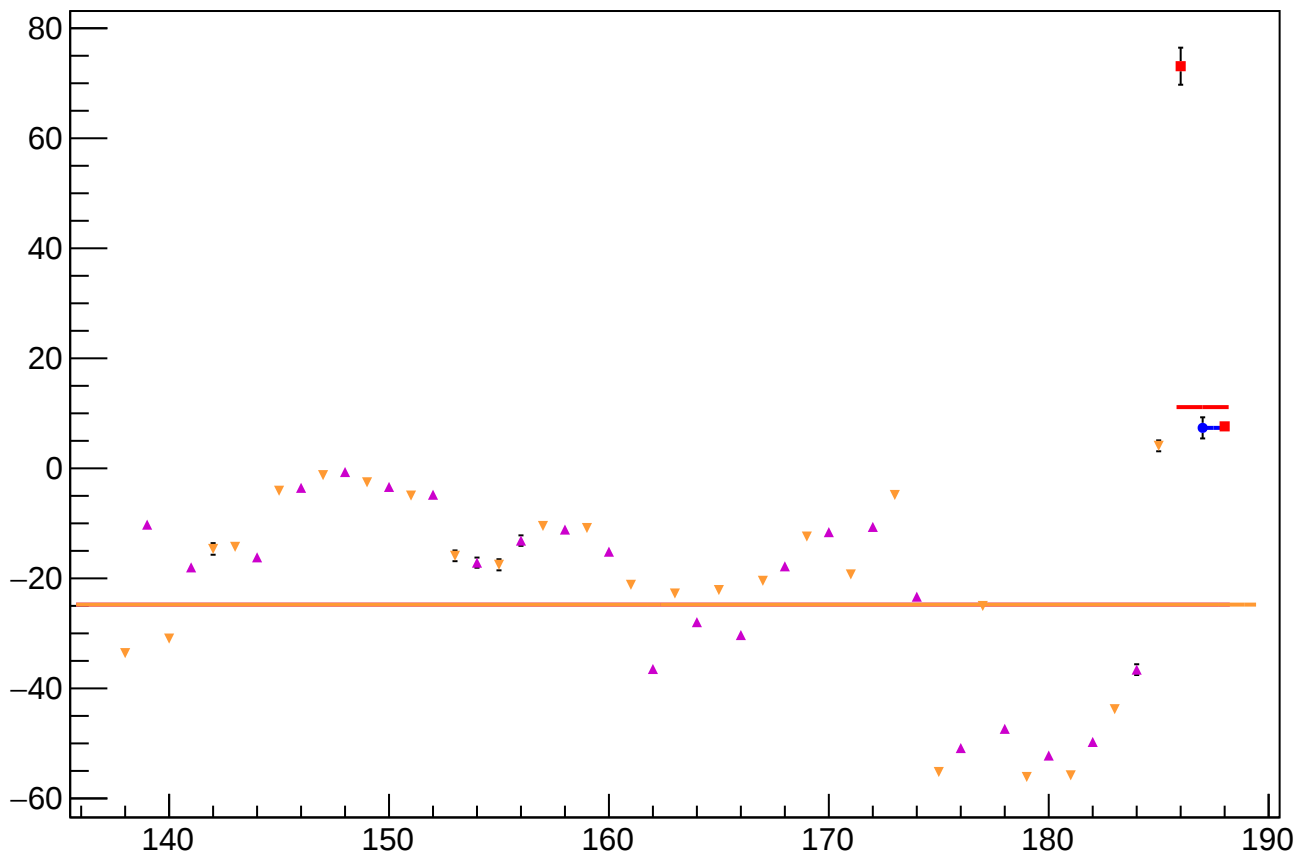
reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.275 ± 0.013 χ^2/NDF : 659.8/17
 Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24
 Right Out: 0.204 ± 0.013 χ^2/NDF : 1011.3/20
 Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47
 Right: 0.237 ± 0.009 χ^2/NDF : 1686.0/38
 In: 0.386 ± 0.004 χ^2/NDF : 4784.4/40
 Out: 0.403 ± 0.004 χ^2/NDF : 4168.9/45
 All: 0.394 ± 0.003 χ^2/NDF : 8962.8/86

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.358+/-1.920 χ^2/NDF : 0.0/0

Left Out: -24.769+/-0.139 χ^2/NDF :18318.8/24

Right Out: 11.132+/-0.779 χ^2/NDF : 357.5/1

Left In: -24.775+/-0.143 χ^2/NDF :14807.4/22

Left: -24.772+/-0.100 χ^2/NDF : 33126.2/47

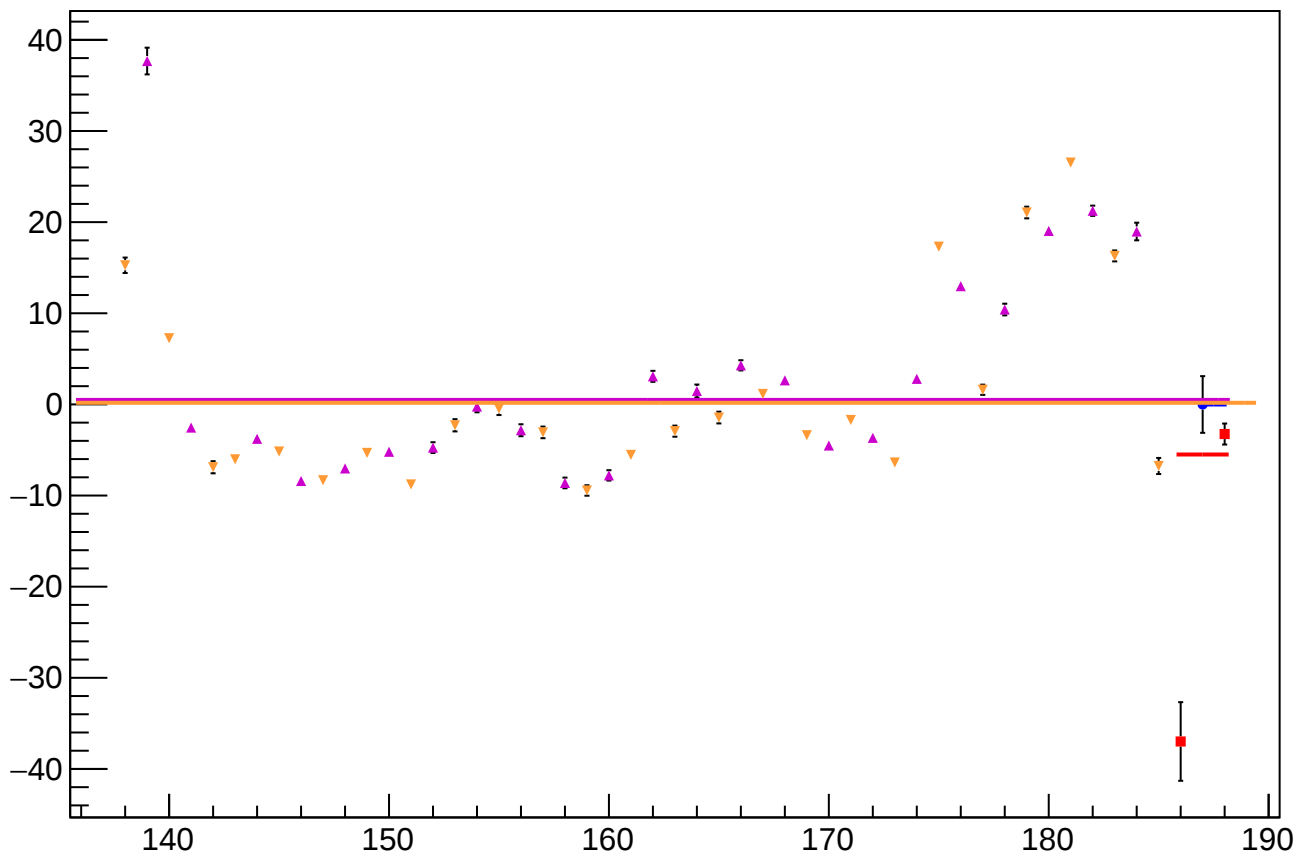
Right: 10.599+/-0.722 χ^2/NDF : 360.8/2

In: -24.598+/-0.142 χ^2/NDF :15085.9/23

Out: -23.655+/-0.137 χ^2/NDF :20734.4/26

All: -24.109+/-0.099 χ^2/NDF : 35843.0/50

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.009 ± 3.109 χ^2/NDF : 0.0/0

Left Out: 0.177 ± 0.109 χ^2/NDF : 8295.6/24

Right Out: -5.498 ± 1.114 χ^2/NDF : 57.1/1

Left In: 0.493 ± 0.112 χ^2/NDF : 6555.4/22

Left: 0.330 ± 0.078 χ^2/NDF : 14855.0/47

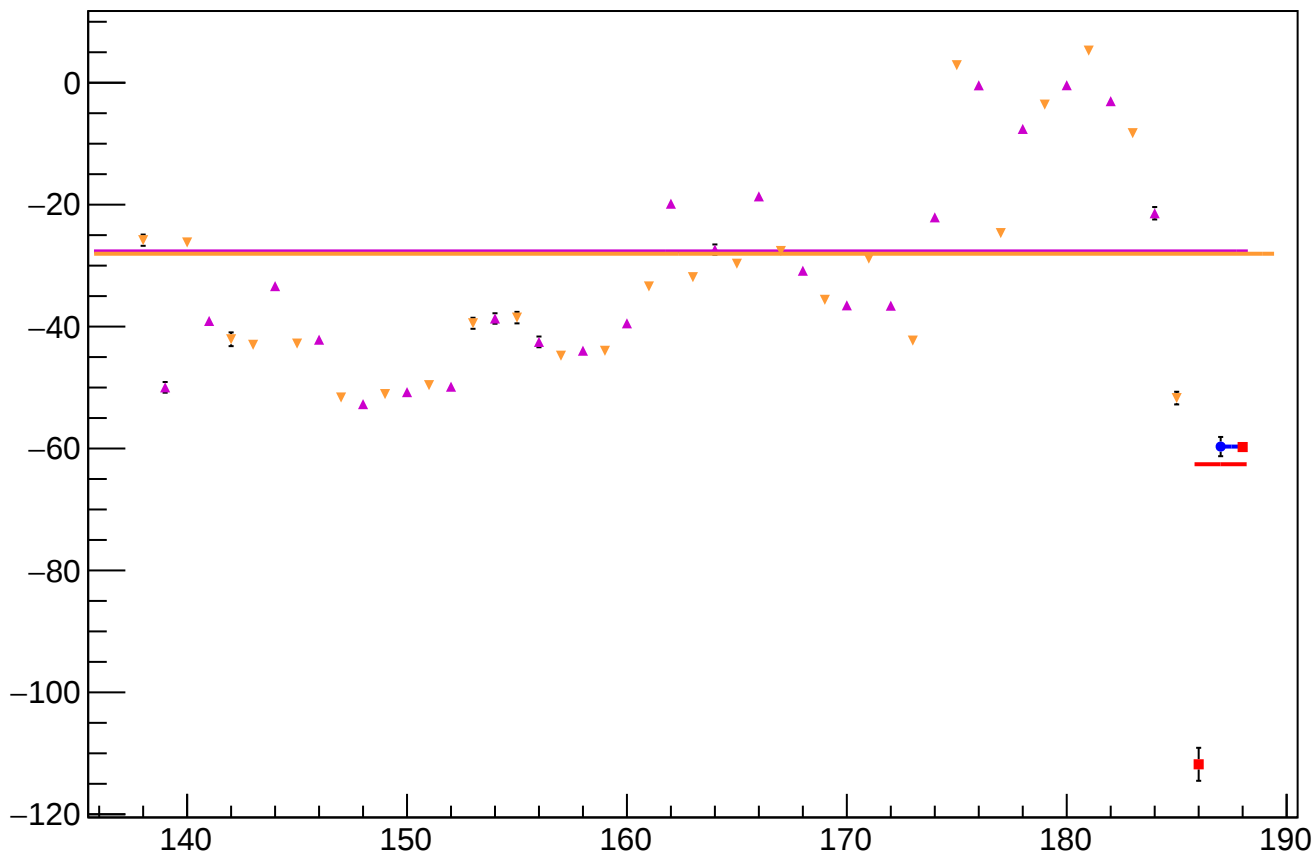
Right: -4.874 ± 1.048 χ^2/NDF : 59.8/2

In: 0.493 ± 0.112 χ^2/NDF : 6555.4/23

Out: 0.124 ± 0.108 χ^2/NDF : 8378.4/26

All: 0.302 ± 0.078 χ^2/NDF : 14939.4/50

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.683+/-1.579 χ^2/NDF : 0.0/0

Left Out: -28.050+/-0.140 χ^2/NDF :17144.5/24

Right Out: -62.579+/-0.630 χ^2/NDF : 349.9/1

Left In: -27.666+/-0.142 χ^2/NDF :15003.2/22

Left: -27.862+/-0.100 χ^2/NDF : 32151.3/47

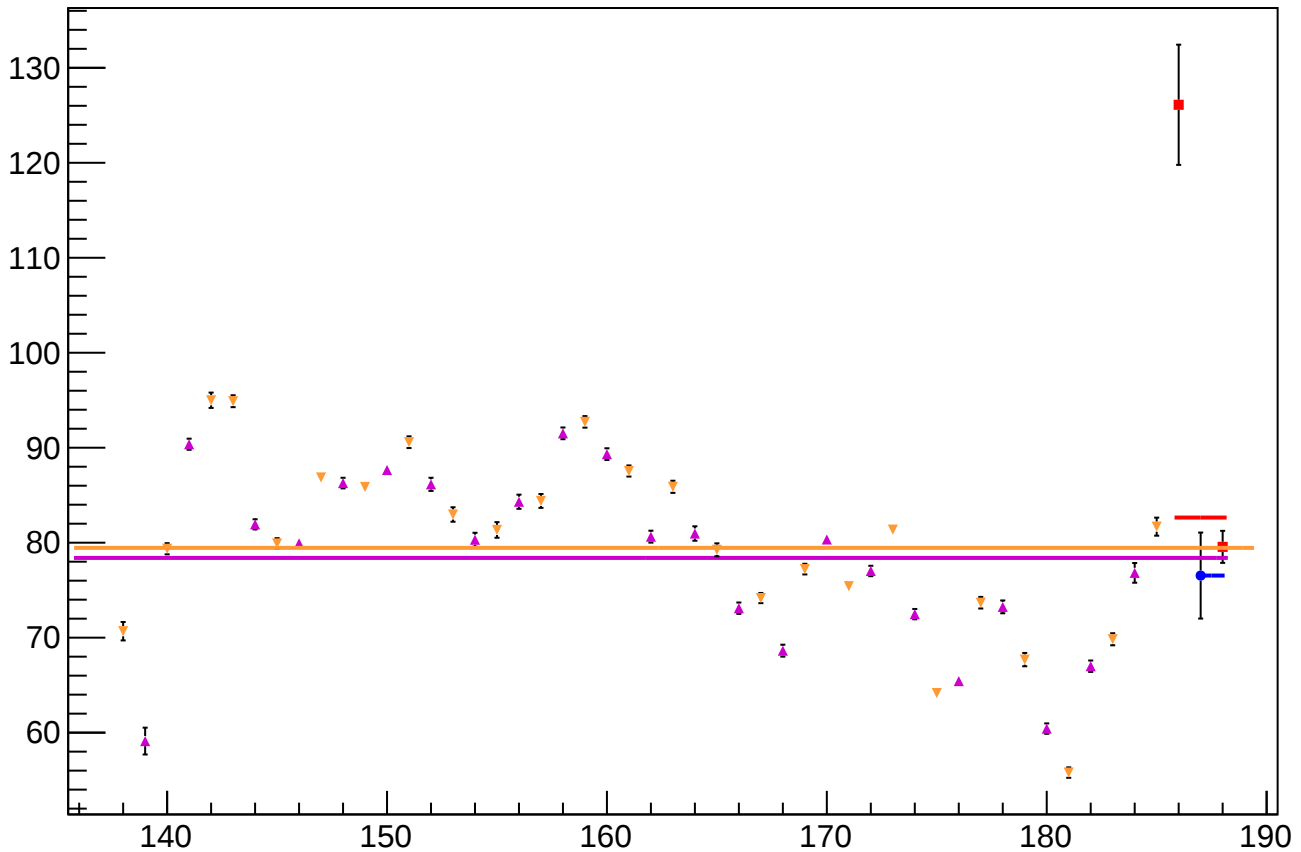
Right: -62.181+/-0.585 χ^2/NDF : 352.9/2

In: -27.925+/-0.142 χ^2/NDF :15411.0/23

Out: -29.673+/-0.137 χ^2/NDF :20359.6/26

All: -28.833+/-0.098 χ^2/NDF : 35849.5/50

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 76.539+/-4.529 χ^2 /NDF: 0.0/0

Left Out: 79.456+/-0.123 χ^2 /NDF:6077.1/24

Right Out: 82.646+/-1.629 χ^2 /NDF: 50.5/1

Left In: 78.396+/-0.127 χ^2 /NDF:4707.3/22

Left: 78.941+/-0.088 χ^2 /NDF: 10820.4/47

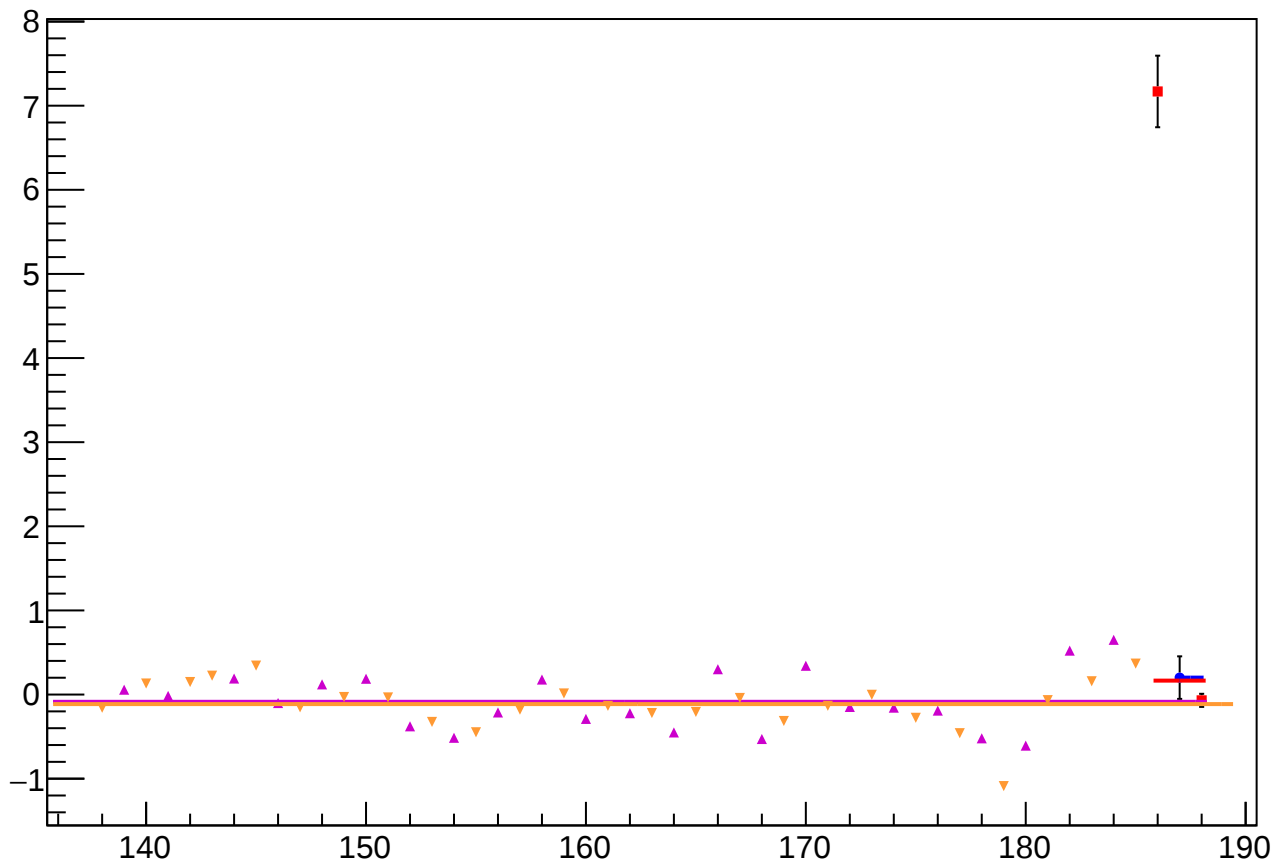
Right: 81.946+/-1.533 χ^2 /NDF: 52.1/2

In: 78.395+/-0.127 χ^2 /NDF:4707.5/23

Out: 79.474+/-0.123 χ^2 /NDF:6131.4/26

All: 78.951+/-0.088 χ^2 /NDF: 10876.3/50

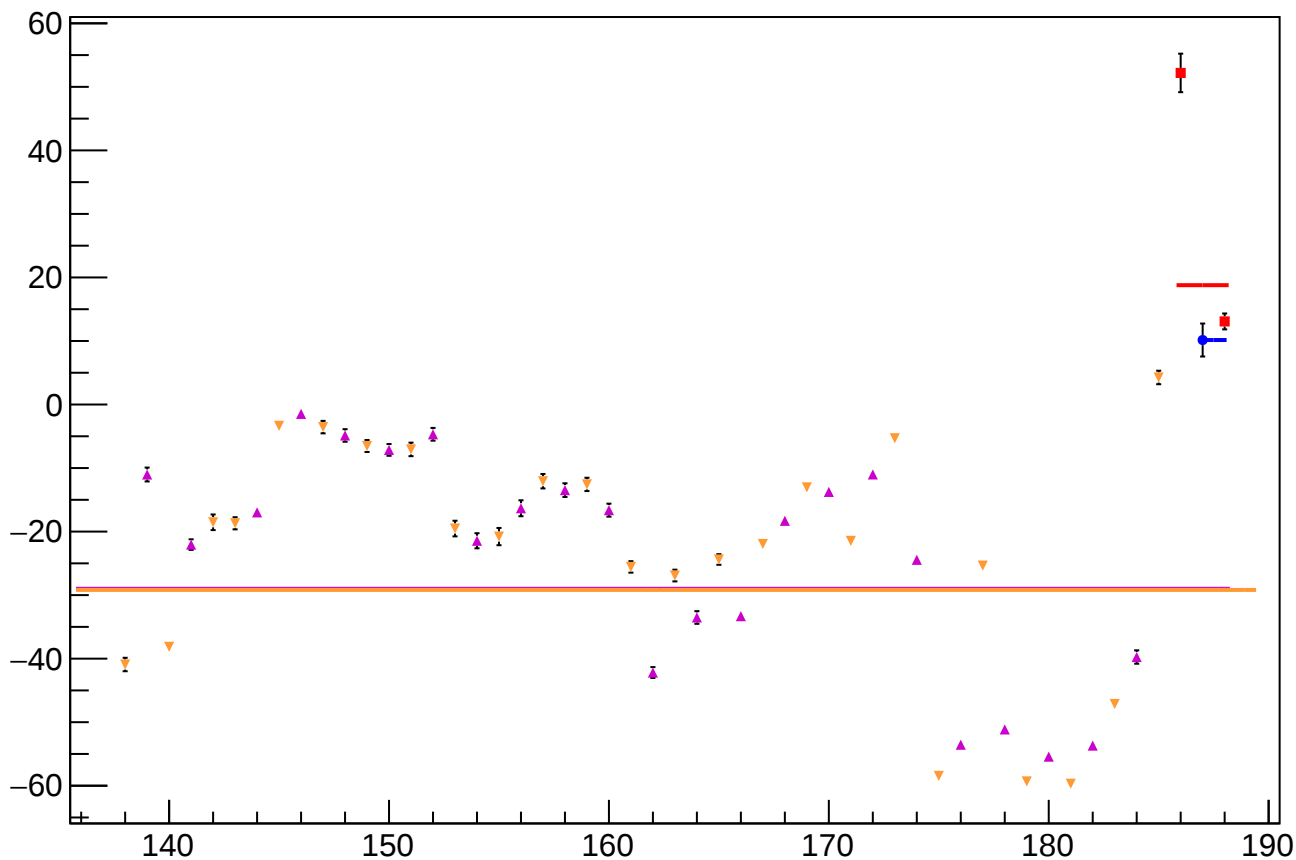
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.201+/-0.253 χ^2/NDF : 0.0/0
 Left Out: -0.113+/-0.006 χ^2/NDF : 2303.1/24
 Right Out: 0.166+/-0.077 χ^2/NDF : 280.1/1
 Left In: -0.086+/-0.006 χ^2/NDF : 3132.1/22

Left: -0.100+/-0.004 χ^2/NDF : 5446.4/47
 Right: 0.169+/-0.073 χ^2/NDF : 280.1/2
 In: -0.086+/-0.006 χ^2/NDF : 3133.4/23
 Out: -0.112+/-0.006 χ^2/NDF : 2596.4/26
 All: -0.099+/-0.004 χ^2/NDF : 5739.9/50

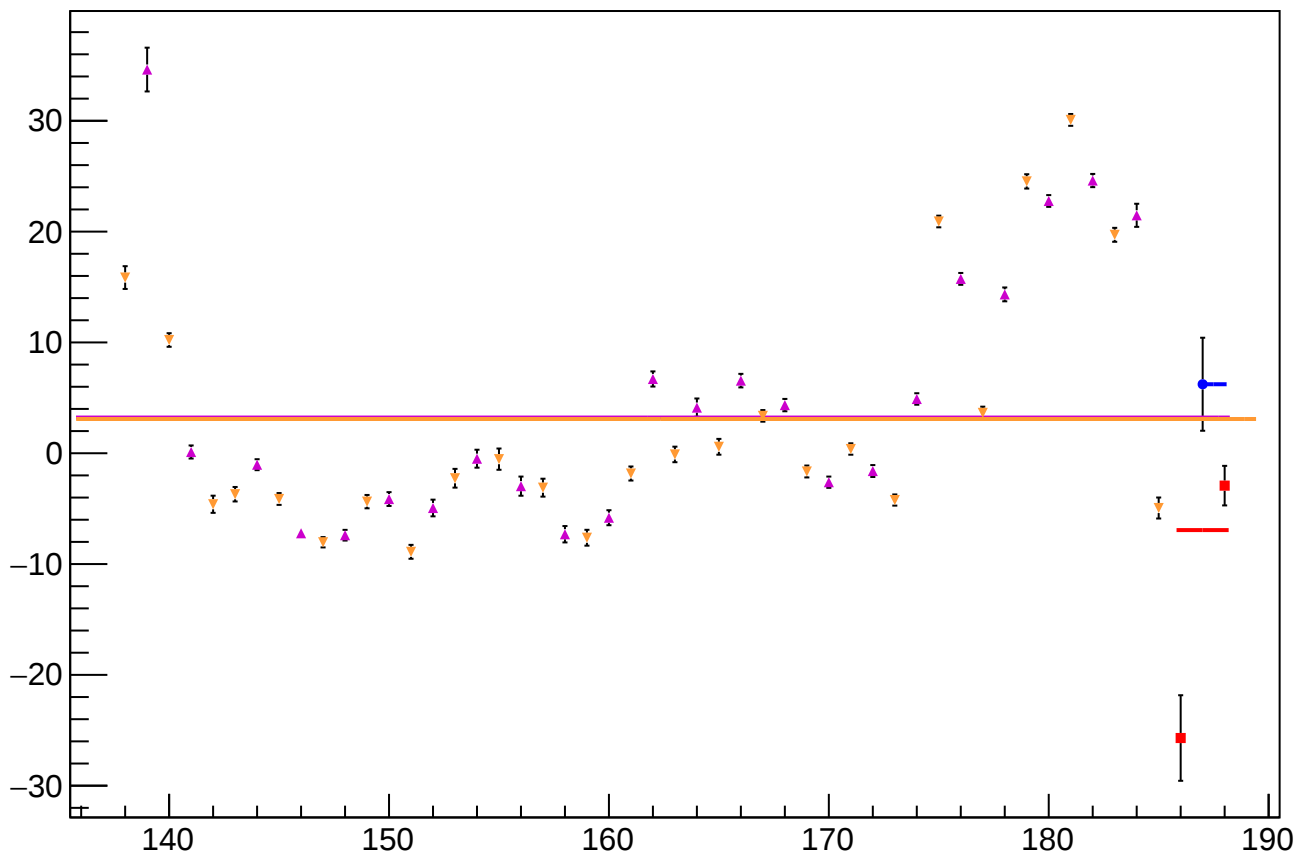
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 10.151+/-2.596 χ^2/NDF : 0.0/0
 Left Out: -29.180+/-0.157 χ^2/NDF :16912.2/24
 Right Out: 18.783+/-1.157 χ^2/NDF : 142.3/1
 Left In: -29.003+/-0.160 χ^2/NDF :13416.8/22

Left: -29.093+/-0.112 χ^2/NDF : 30329.6/47
 Right: 17.352+/-1.057 χ^2/NDF : 151.5/2
 In: -28.855+/-0.159 χ^2/NDF :13643.4/23
 Out: -28.316+/-0.155 χ^2/NDF :18741.3/26
 All: -28.578+/-0.111 χ^2/NDF : 32390.6/50

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.227+/-4.197 χ^2/NDF : 0.0/0

Left Out: 3.091+/-0.124 χ^2/NDF :8084.1/24

Right Out: -6.934+/-1.620 χ^2/NDF : 28.7/1

Left In: 3.221+/-0.127 χ^2/NDF :6237.6/22

Left: 3.155+/-0.089 χ^2/NDF : 14322.2/47

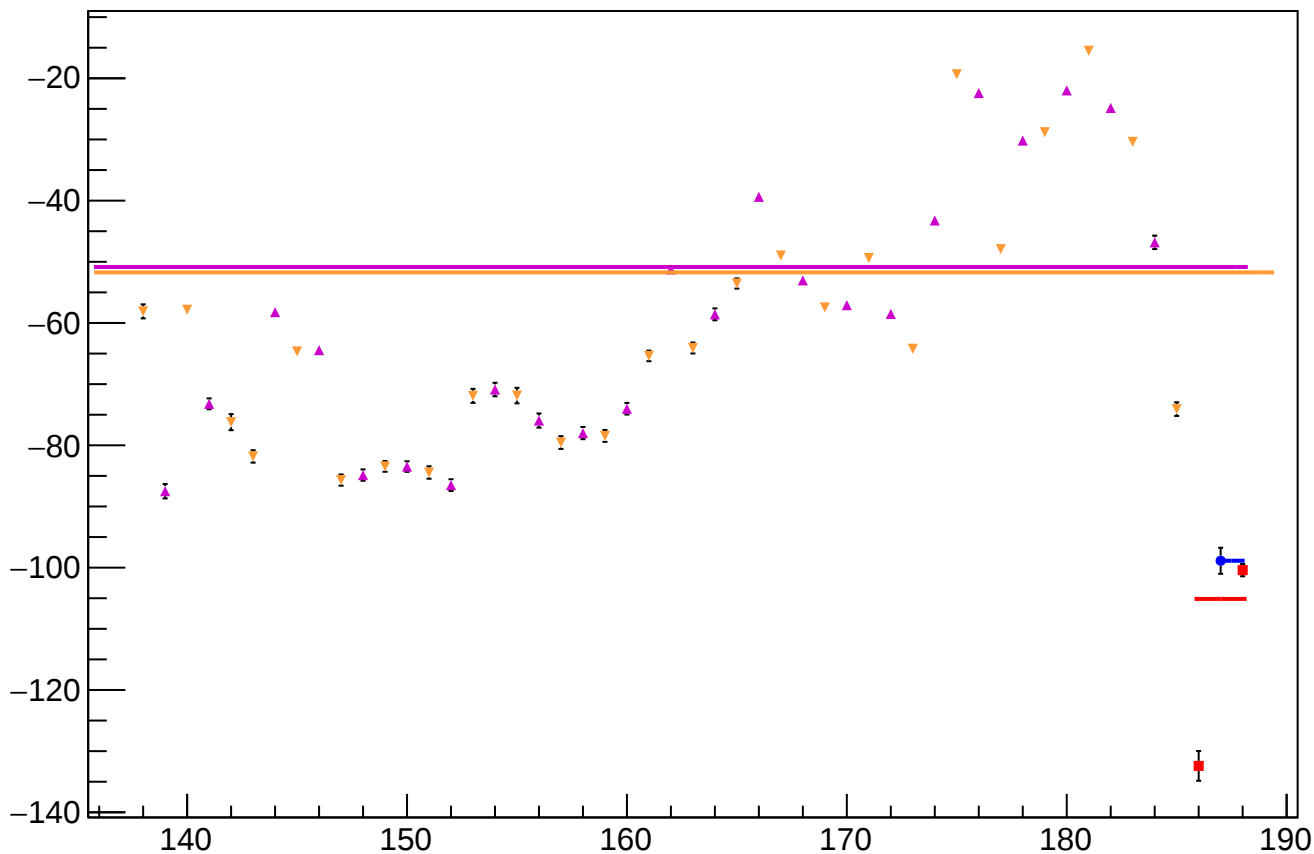
Right: -5.227+/-1.512 χ^2/NDF : 37.2/2

In: 3.224+/-0.127 χ^2/NDF :6238.1/23

Out: 3.032+/-0.124 χ^2/NDF :8150.8/26

All: 3.126+/-0.089 χ^2/NDF : 14390.1/50

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -98.874+/-2.134 χ^2/NDF : 0.0/0

Left Out: -51.729+/-0.158 χ^2/NDF :19538.0/24

Right Out: -105.113+/-0.934 χ^2/NDF : 147.4/1

Left In: -50.844+/-0.160 χ^2/NDF :17272.0/22

Left: -51.293+/-0.112 χ^2/NDF : 36825.5/47

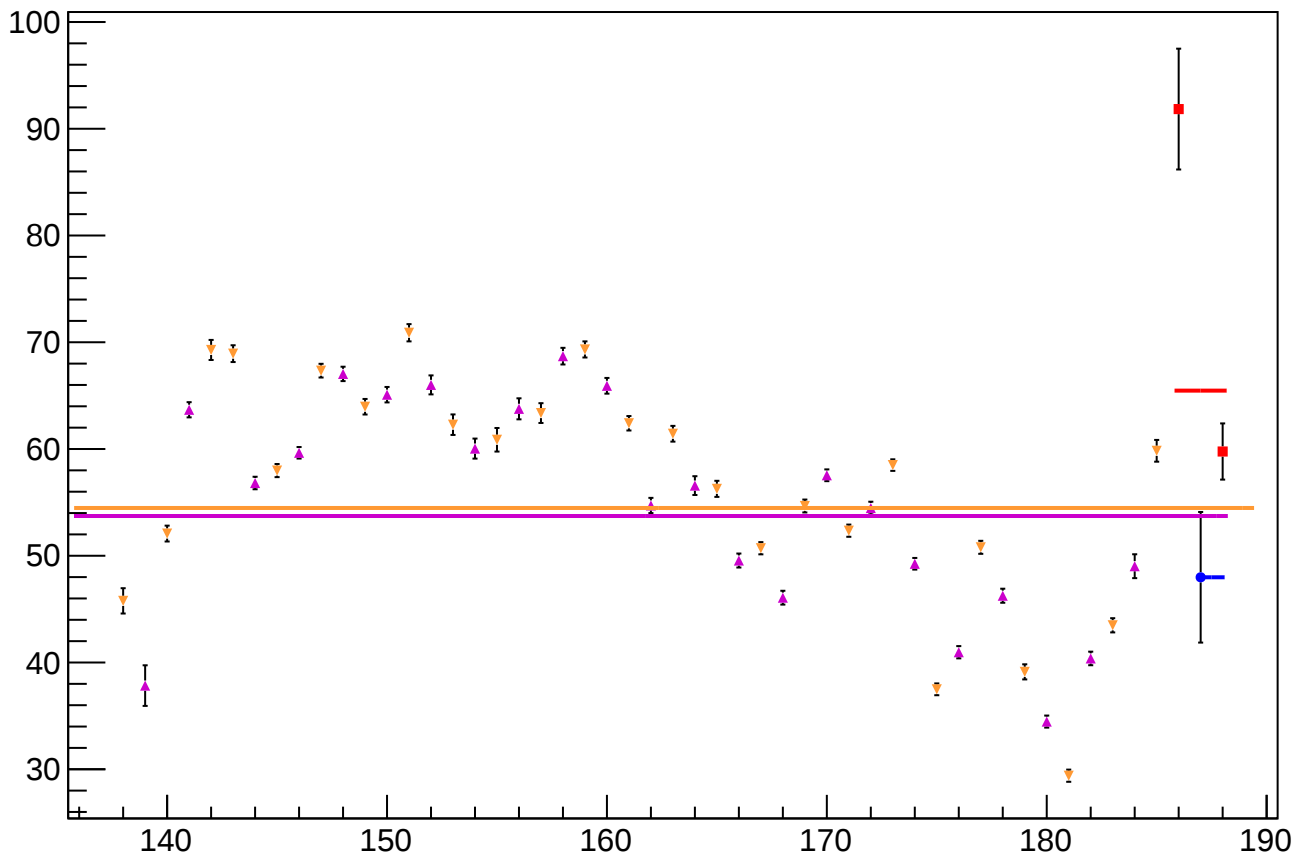
Right: -104.111+/-0.855 χ^2/NDF : 154.6/2

In: -51.113+/-0.160 χ^2/NDF :17775.8/23

Out: -53.214+/-0.156 χ^2/NDF :22864.6/26

All: -52.190+/-0.111 χ^2/NDF : 40729.1/50

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.983+/-6.117 χ^2/NDF : 0.0/0

Left Out: 54.476+/-0.140 χ^2/NDF : 6266.9/24

Right Out: 65.469+/-2.386 χ^2/NDF : 26.4/1

Left In: 53.724+/-0.143 χ^2/NDF : 4585.7/22

Left: 54.107+/-0.100 χ^2/NDF : 10866.7/47

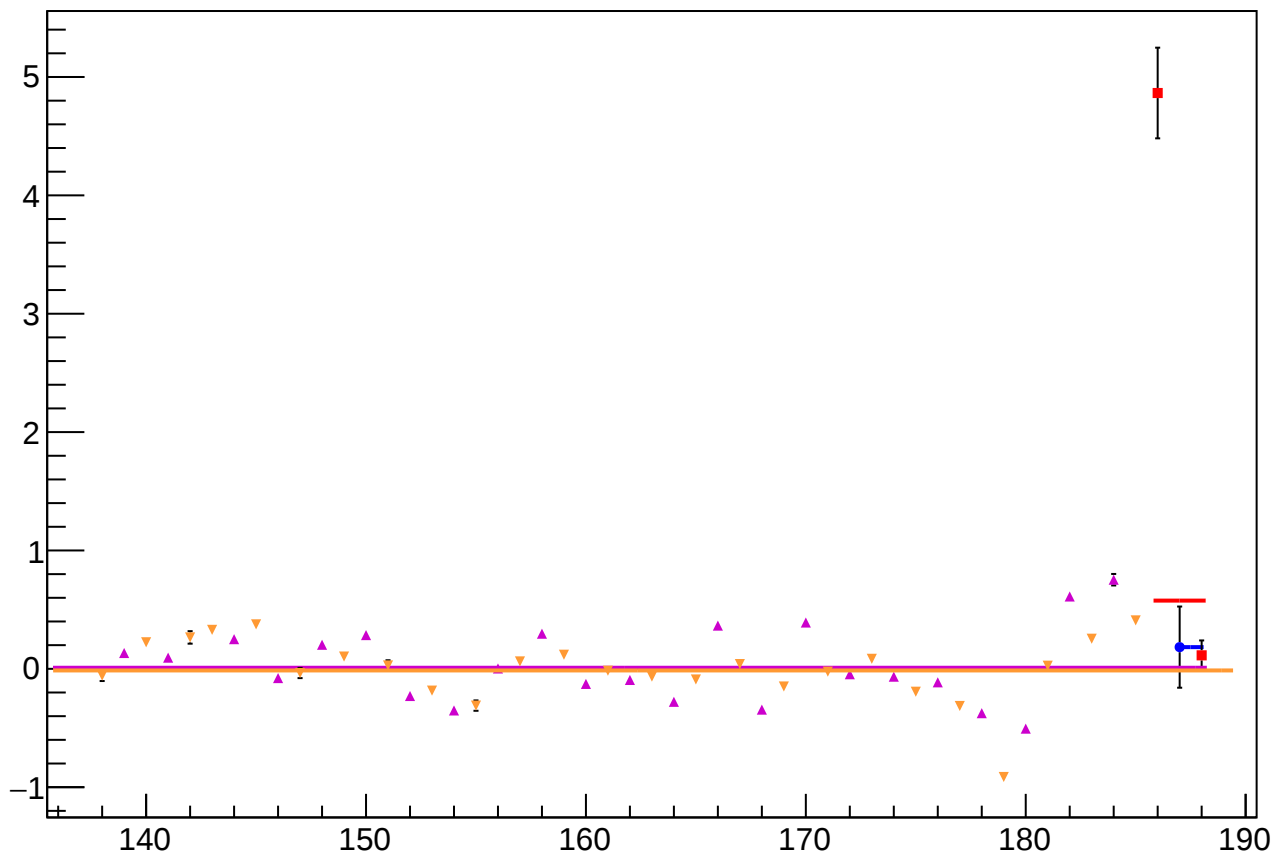
Right: 63.159+/-2.223 χ^2/NDF : 33.5/2

In: 53.720+/-0.143 χ^2/NDF : 4586.6/23

Out: 54.514+/-0.140 χ^2/NDF : 6314.5/26

All: 54.126+/-0.100 χ^2/NDF : 10916.8/50

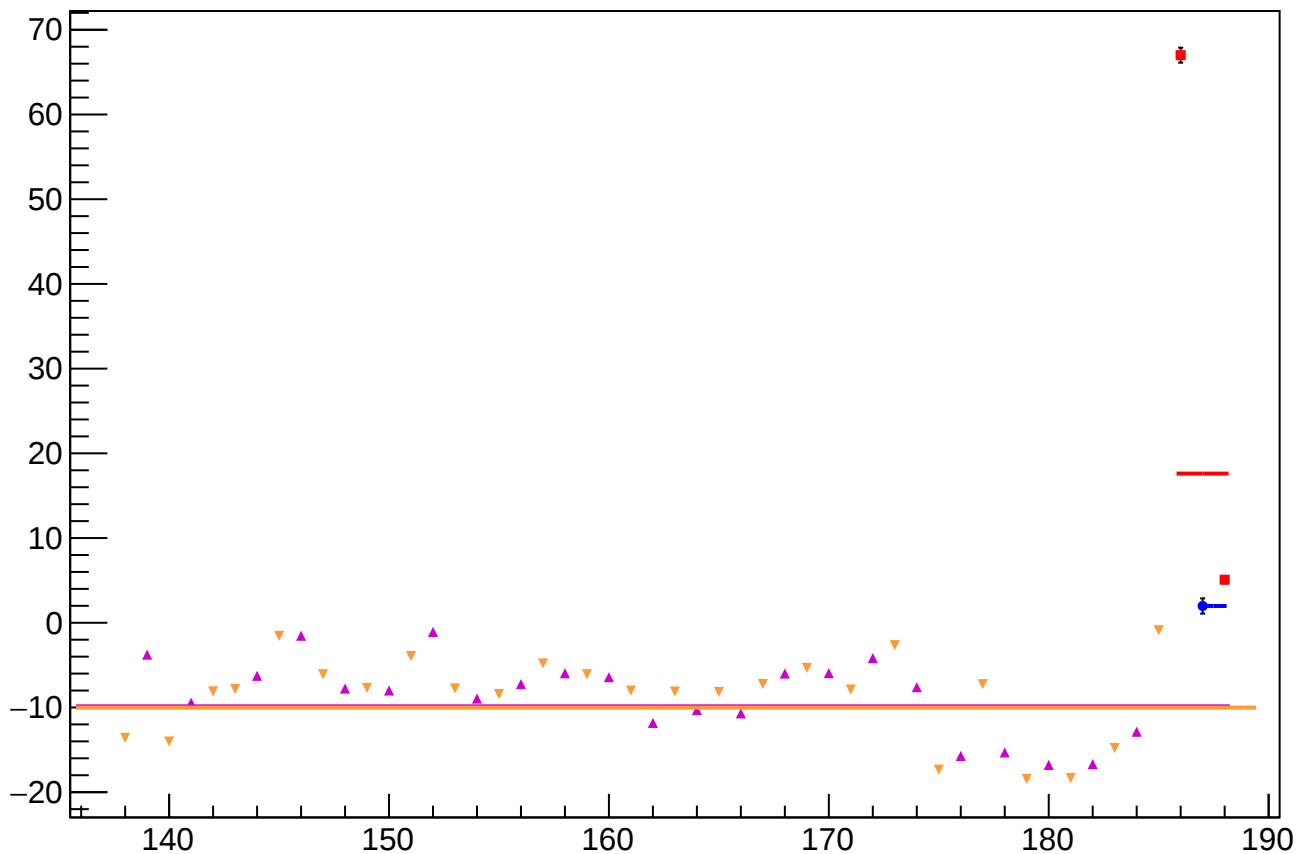
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.183+/-0.343 χ^2/NDF : 0.0/0
 Left Out: -0.014+/-0.006 χ^2/NDF : 1654.7/24
 Right Out: 0.576+/-0.119 χ^2/NDF : 138.9/1
 Left In: 0.009+/-0.007 χ^2/NDF : 2220.5/22

Left: -0.003+/-0.005 χ^2/NDF : 3881.4/47
 Right: 0.534+/-0.113 χ^2/NDF : 140.0/2
 In: 0.009+/-0.007 χ^2/NDF : 2220.8/23
 Out: -0.012+/-0.006 χ^2/NDF : 1817.9/26
 All: -0.002+/-0.005 χ^2/NDF : 4043.9/50

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.981+/-0.902 χ^2/NDF : 0.0/0

Left Out: -10.017+/-0.051 χ^2/NDF :12552.8/24

Right Out: 17.607+/-0.398 χ^2/NDF : 3906.7/1

Left In: -9.865+/-0.051 χ^2/NDF :9345.4/22

Left: -9.942+/-0.036 χ^2/NDF : 21902.5/47

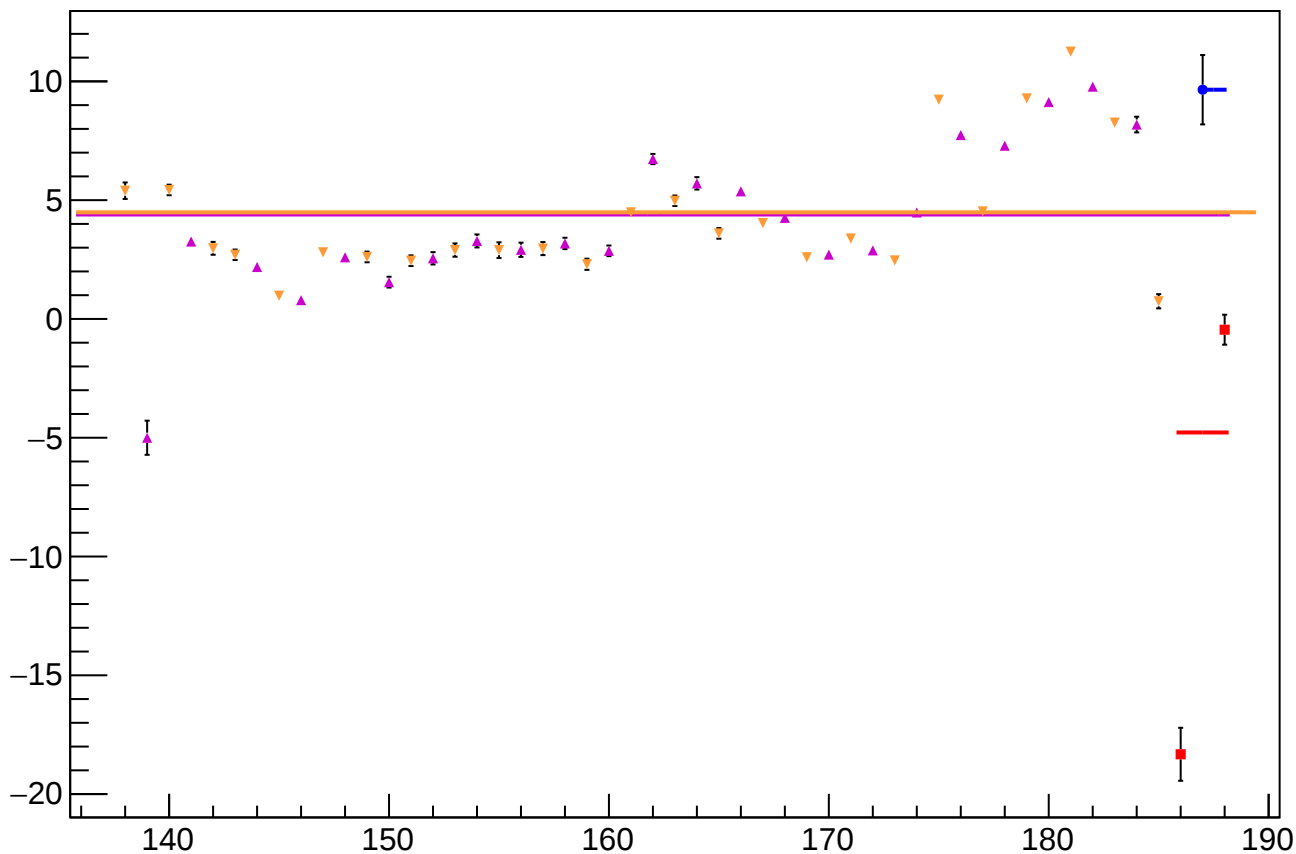
Right: 15.060+/-0.364 χ^2/NDF : 4158.0/2

In: -9.827+/-0.051 χ^2/NDF :9517.3/23

Out: -9.577+/-0.050 χ^2/NDF :21200.2/26

All: -9.699+/-0.036 χ^2/NDF : 30729.7/50

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.649 $\pm$ 1.460 χ^2 /NDF: 0.0/0

Left Out: 4.489 $\pm$ 0.041 χ^2 /NDF: 4832.3/24

Right Out: -4.779 $\pm$ 0.549 χ^2 /NDF: 194.3/1

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

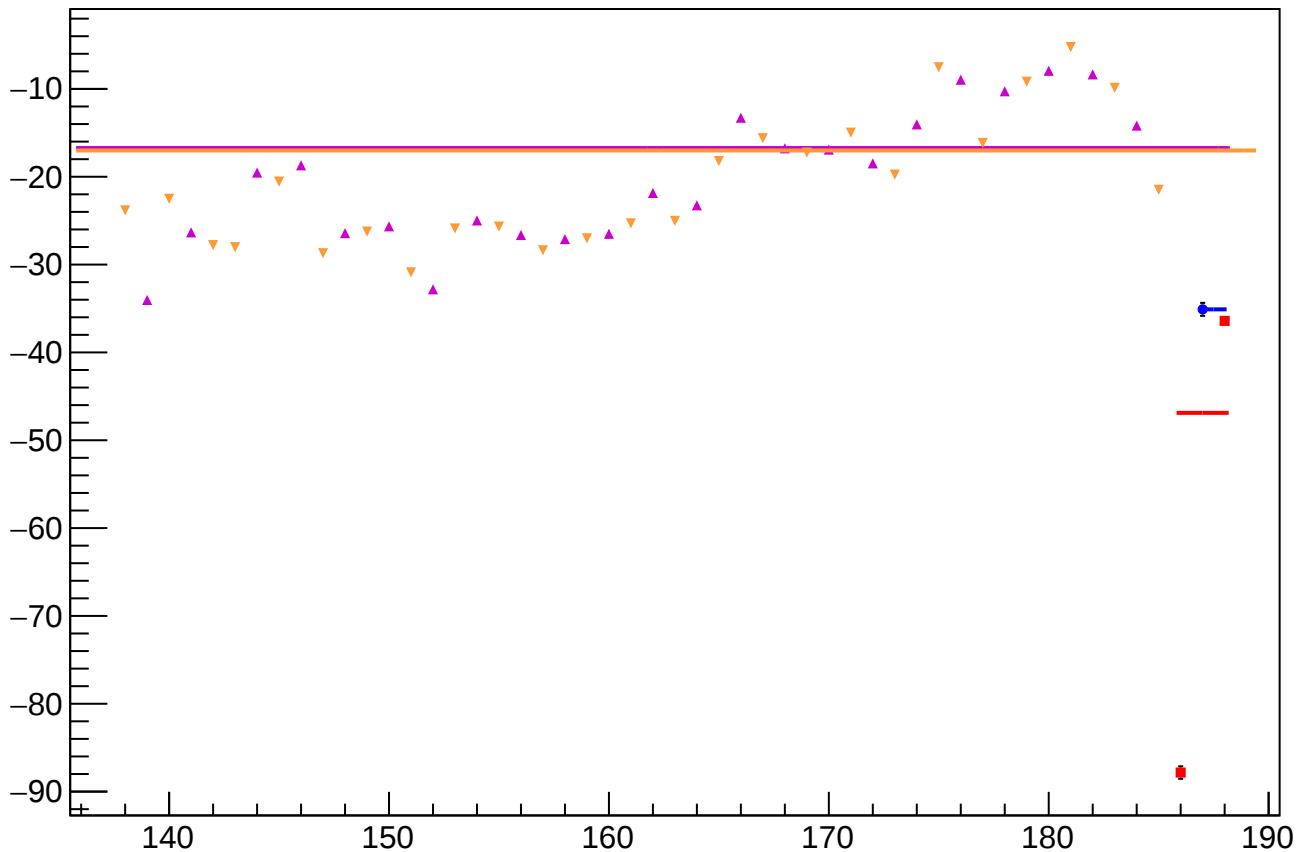
Right: -2.991 $\pm$ 0.514 χ^2 /NDF: 279.9/2

In: 4.400 $\pm$ 0.041 χ^2 /NDF: 4243.3/23

Out: 4.438 $\pm$ 0.041 χ^2 /NDF: 5309.9/26

All: 4.419 $\pm$ 0.029 χ^2 /NDF: 9553.7/50

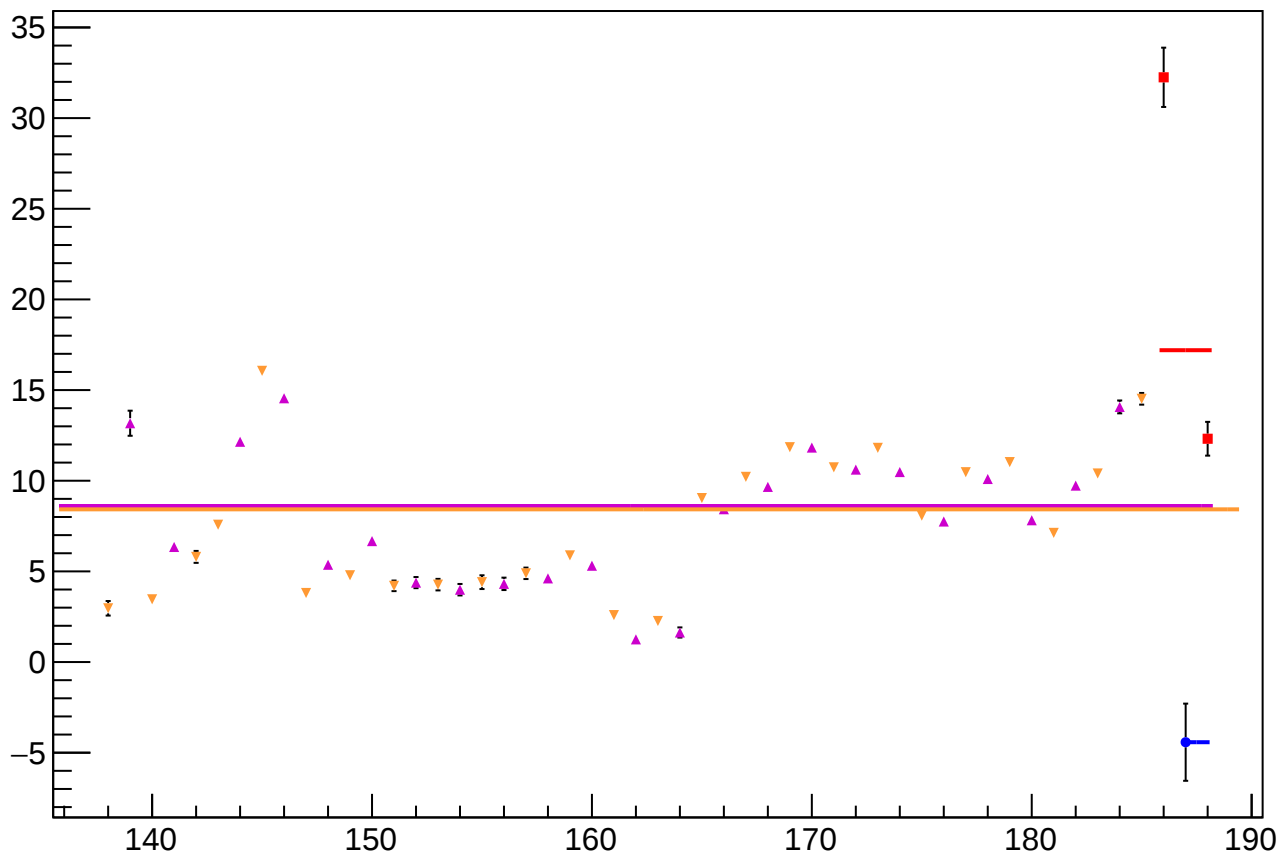
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -35.096 ± 0.741 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -46.882 ± 0.321 $\chi^2/\text{NDF}: 4166.7/1$
 Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$
 Right: -45.023 ± 0.294 $\chi^2/\text{NDF}: 4379.5/2$
 In: -16.820 ± 0.051 $\chi^2/\text{NDF}: 19387.9/23$
 Out: -17.747 ± 0.050 $\chi^2/\text{NDF}: 34717.8/26$
 All: -17.292 ± 0.036 $\chi^2/\text{NDF}: 54271.2/50$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.422+/-2.128 χ^2/NDF : 0.0/0

Left Out: 8.422+/-0.046 χ^2/NDF :6470.1/24

Right Out: 17.199+/-0.809 χ^2/NDF : 112.2/1

Left In: 8.606+/-0.046 χ^2/NDF :5504.2/22

Left: 8.513+/-0.032 χ^2/NDF : 11982.4/47

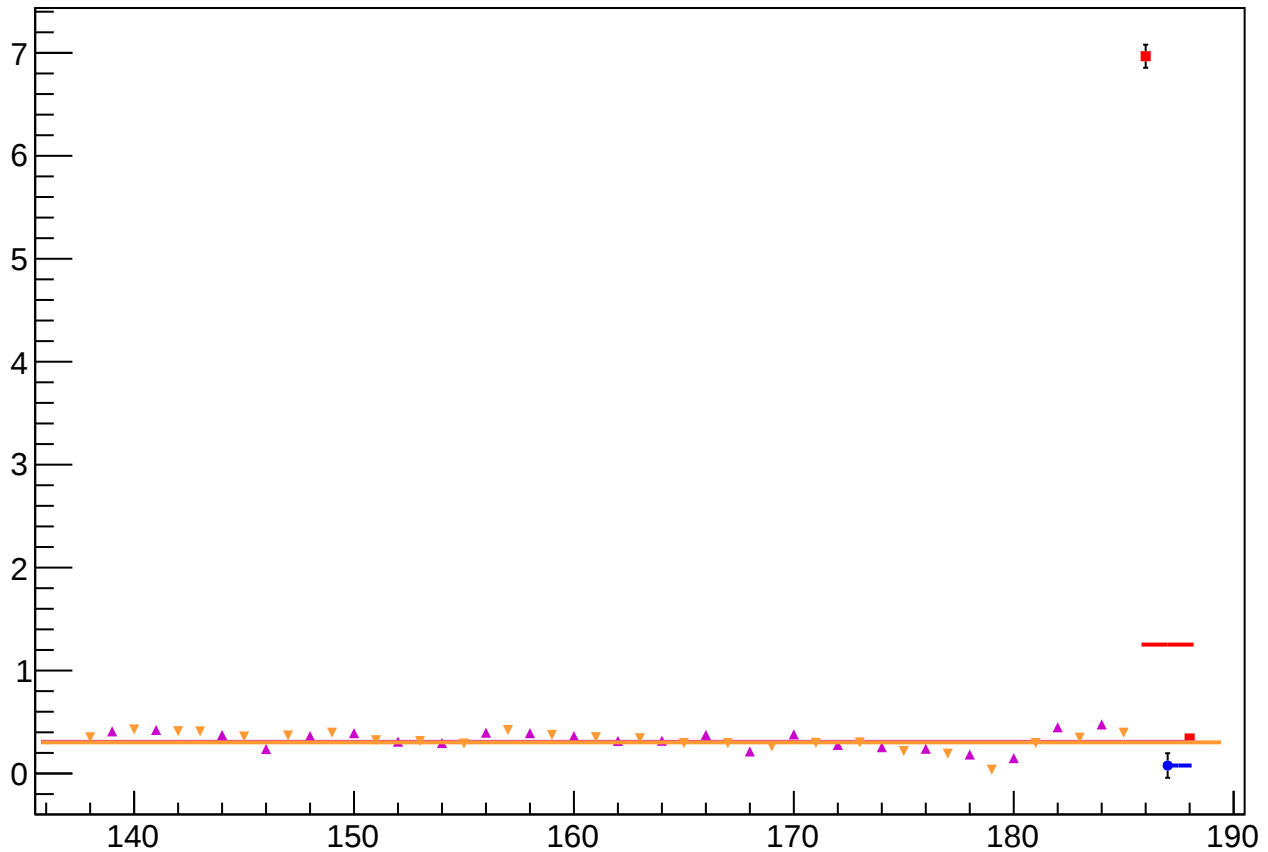
Right: 14.467+/-0.757 χ^2/NDF : 202.4/2

In: 8.600+/-0.046 χ^2/NDF :5541.7/23

Out: 8.450+/-0.045 χ^2/NDF :6699.5/26

All: 8.524+/-0.032 χ^2/NDF : 12246.6/50

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.078+/-0.119 χ^2/NDF : 0.0/0

Left Out: 0.302+/-0.002 χ^2/NDF :1590.9/24

Right Out: 1.252+/-0.042 χ^2/NDF : 3009.7/1

Left In: 0.307+/-0.002 χ^2/NDF :1699.5/22

Left: 0.305+/-0.001 χ^2/NDF : 3293.0/47

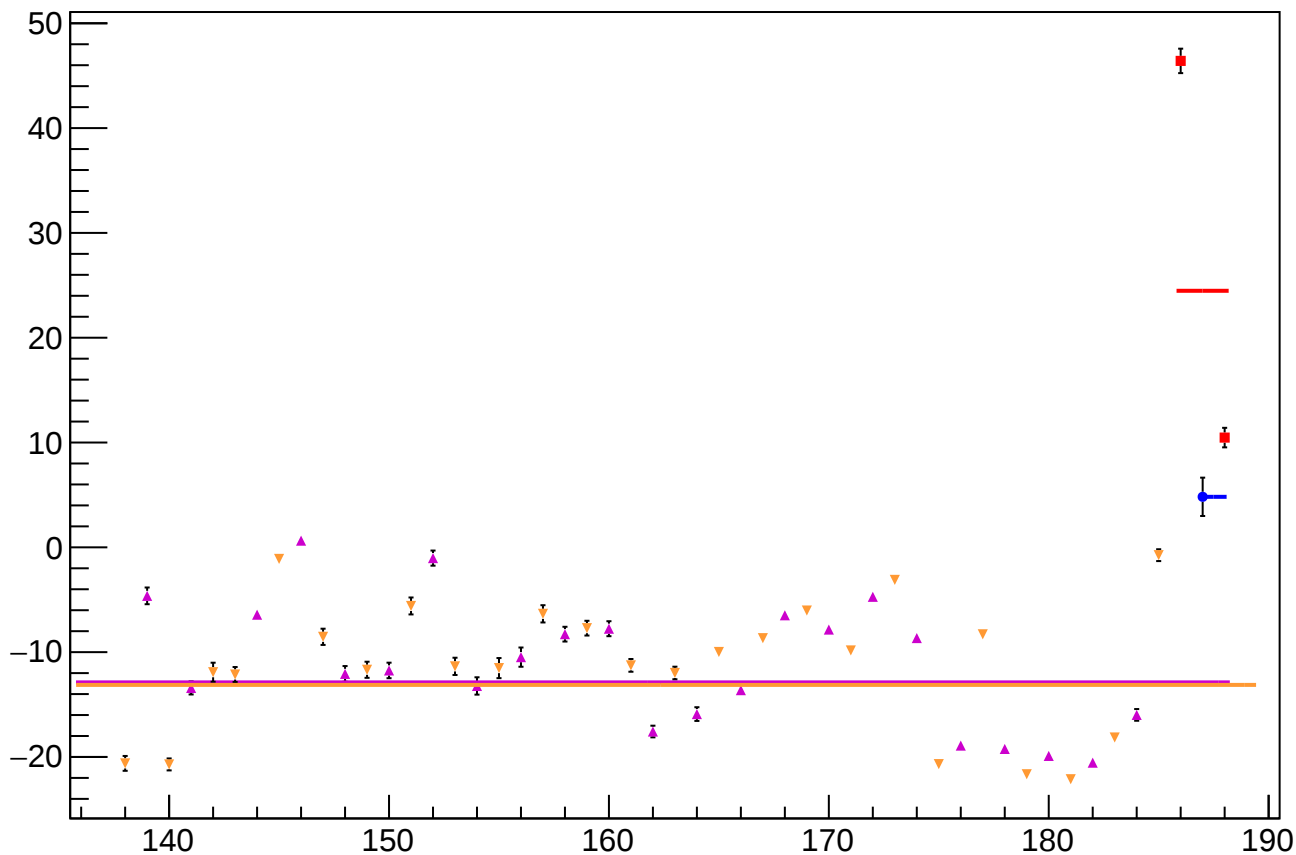
Right: 1.125+/-0.039 χ^2/NDF : 3096.1/2

In: 0.307+/-0.002 χ^2/NDF :1703.2/23

Out: 0.305+/-0.002 χ^2/NDF :5119.8/26

All: 0.306+/-0.001 χ^2/NDF : 6823.6/50

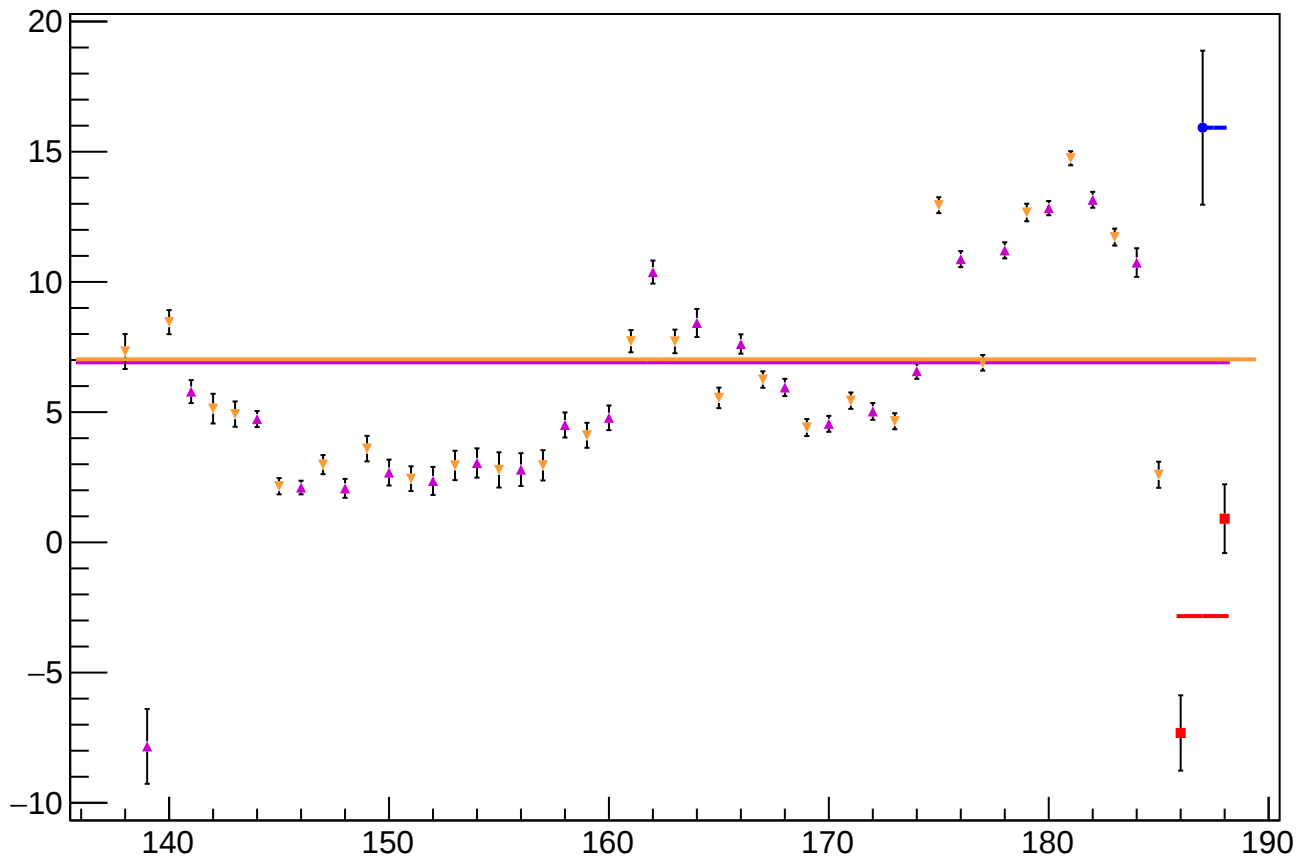
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.820+/-1.829 χ^2/NDF : 0.0/0
 Left Out: -13.125+/-0.094 χ^2/NDF : 5977.6/24
 Right Out: 24.477+/-0.728 χ^2/NDF : 579.3/1
 Left In: -12.885+/-0.095 χ^2/NDF : 4776.2/22

Left: -13.007+/-0.067 χ^2/NDF : 10757.0/47
 Right: 21.787+/-0.677 χ^2/NDF : 679.1/2
 In: -12.838+/-0.095 χ^2/NDF : 4869.6/23
 Out: -12.513+/-0.093 χ^2/NDF : 9179.9/26
 All: -12.672+/-0.066 χ^2/NDF : 14055.5/50

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.923+/-2.957 χ^2 /NDF: 0.0/0

Left Out: 7.028+/-0.077 χ^2 /NDF:2665.3/24

Right Out: -2.831+/-0.975 χ^2 /NDF: 17.7/1

Left In: 6.914+/-0.078 χ^2 /NDF:2428.2/22

Left: 6.971+/-0.055 χ^2 /NDF: 5094.6/47

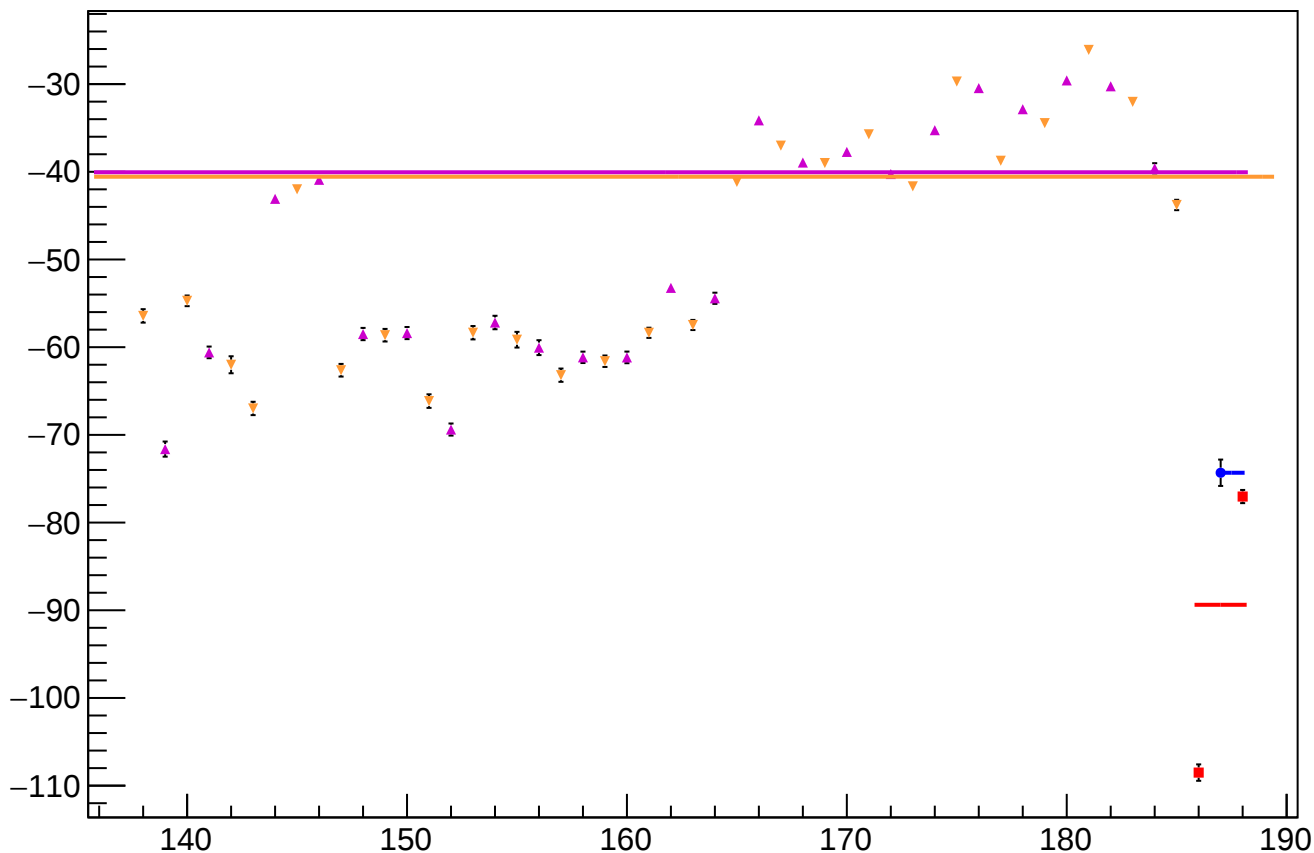
Right: -0.993+/-0.926 χ^2 /NDF: 53.9/2

In: 6.920+/-0.078 χ^2 /NDF:2437.5/23

Out: 6.966+/-0.077 χ^2 /NDF:2784.7/26

All: 6.943+/-0.055 χ^2 /NDF: 5222.4/50

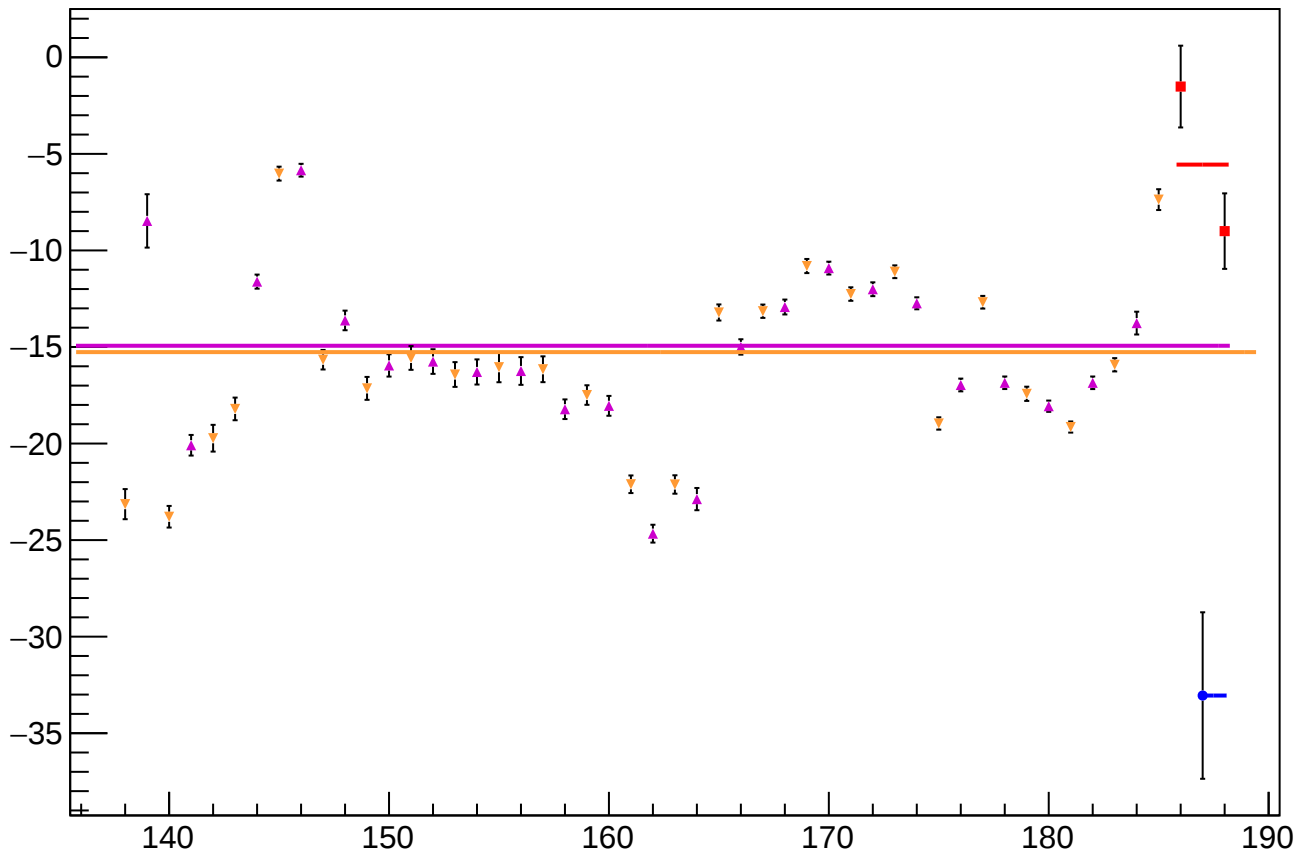
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -74.319 ± 1.503 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -40.563 ± 0.095 $\chi^2/\text{NDF}: 15637.6/24$
 Right Out: -89.376 ± 0.586 $\chi^2/\text{NDF}: 688.1/1$
 Left In: -40.053 ± 0.096 $\chi^2/\text{NDF}: 13927.3/22$

Left: -40.310 ± 0.067 $\chi^2/\text{NDF}: 29579.2/47$
 Right: -87.390 ± 0.546 $\chi^2/\text{NDF}: 775.2/2$
 In: -40.192 ± 0.095 $\chi^2/\text{NDF}: 14444.9/23$
 Out: -41.806 ± 0.094 $\chi^2/\text{NDF}: 23089.5/26$
 All: -41.015 ± 0.067 $\chi^2/\text{NDF}: 37680.4/50$

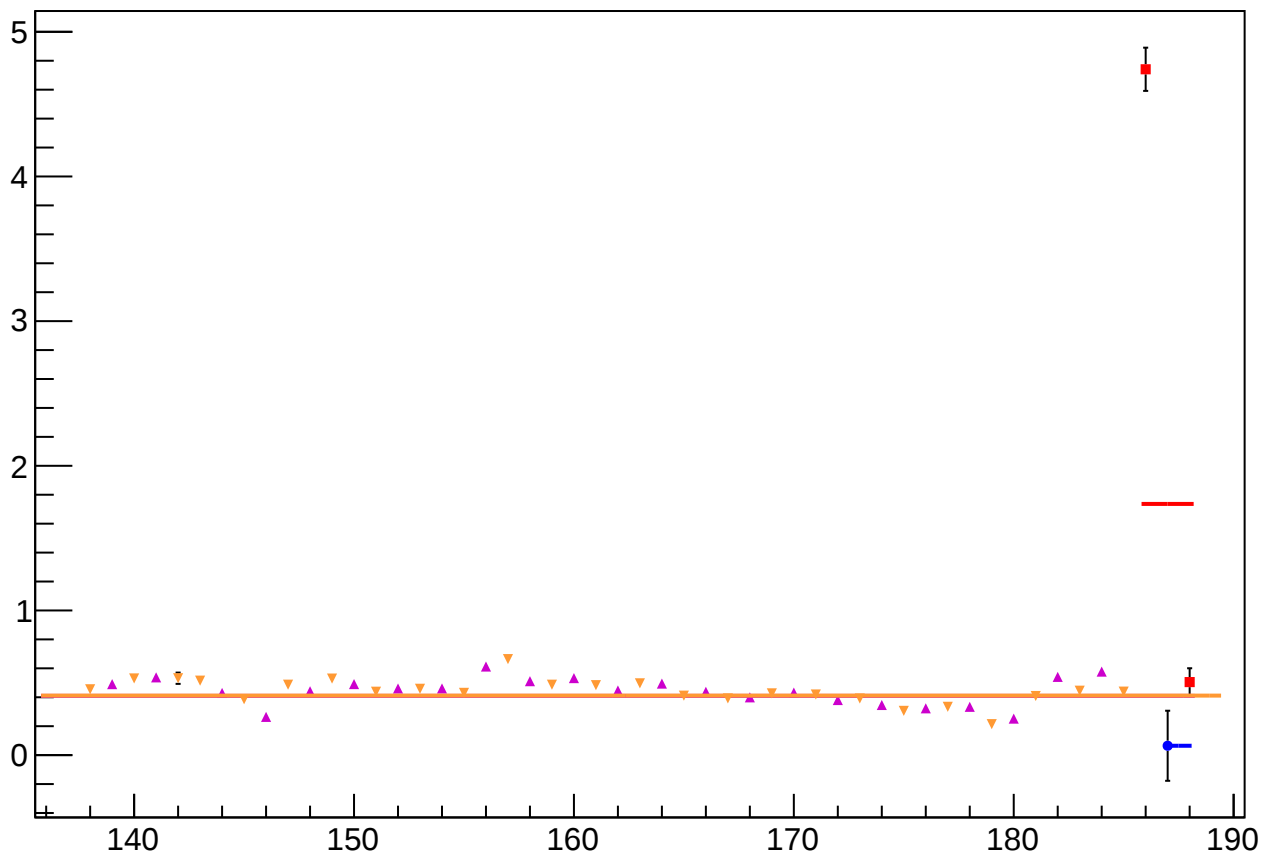
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -33.050 ± 4.311 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -5.555 ± 1.436 $\chi^2/\text{NDF}: 6.7/1$
 Left In: -14.936 ± 0.087 $\chi^2/\text{NDF}: 2199.7/22$

Left: -15.103 ± 0.061 $\chi^2/\text{NDF}: 4802.4/47$
 Right: -8.303 ± 1.363 $\chi^2/\text{NDF}: 43.4/2$
 In: -14.944 ± 0.087 $\chi^2/\text{NDF}: 2217.3/23$
 Out: -15.231 ± 0.086 $\chi^2/\text{NDF}: 2647.7/26$
 All: -15.089 ± 0.061 $\chi^2/\text{NDF}: 4870.6/50$

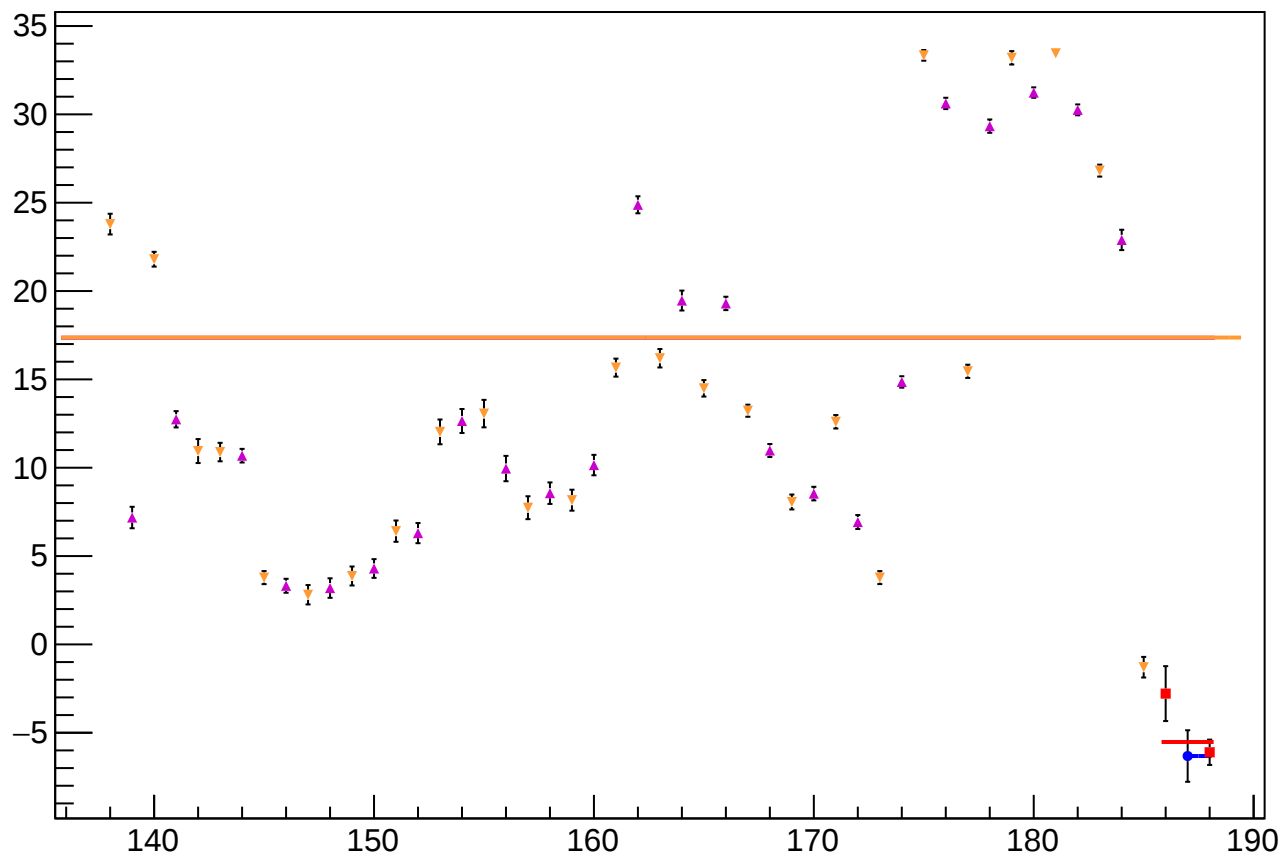
reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.065+/-0.242 χ^2/NDF : 0.0/0
 Left Out: 0.411+/-0.004 χ^2/NDF : 428.7/24
 Right Out: 1.736+/-0.081 χ^2/NDF : 570.4/1
 Left In: 0.409+/-0.004 χ^2/NDF : 557.8/22

Left: 0.410+/-0.003 χ^2/NDF : 986.7/47
 Right: 1.570+/-0.076 χ^2/NDF : 613.3/2
 In: 0.409+/-0.004 χ^2/NDF : 559.9/23
 Out: 0.415+/-0.004 χ^2/NDF : 1269.1/26
 All: 0.412+/-0.003 χ^2/NDF : 1829.9/50

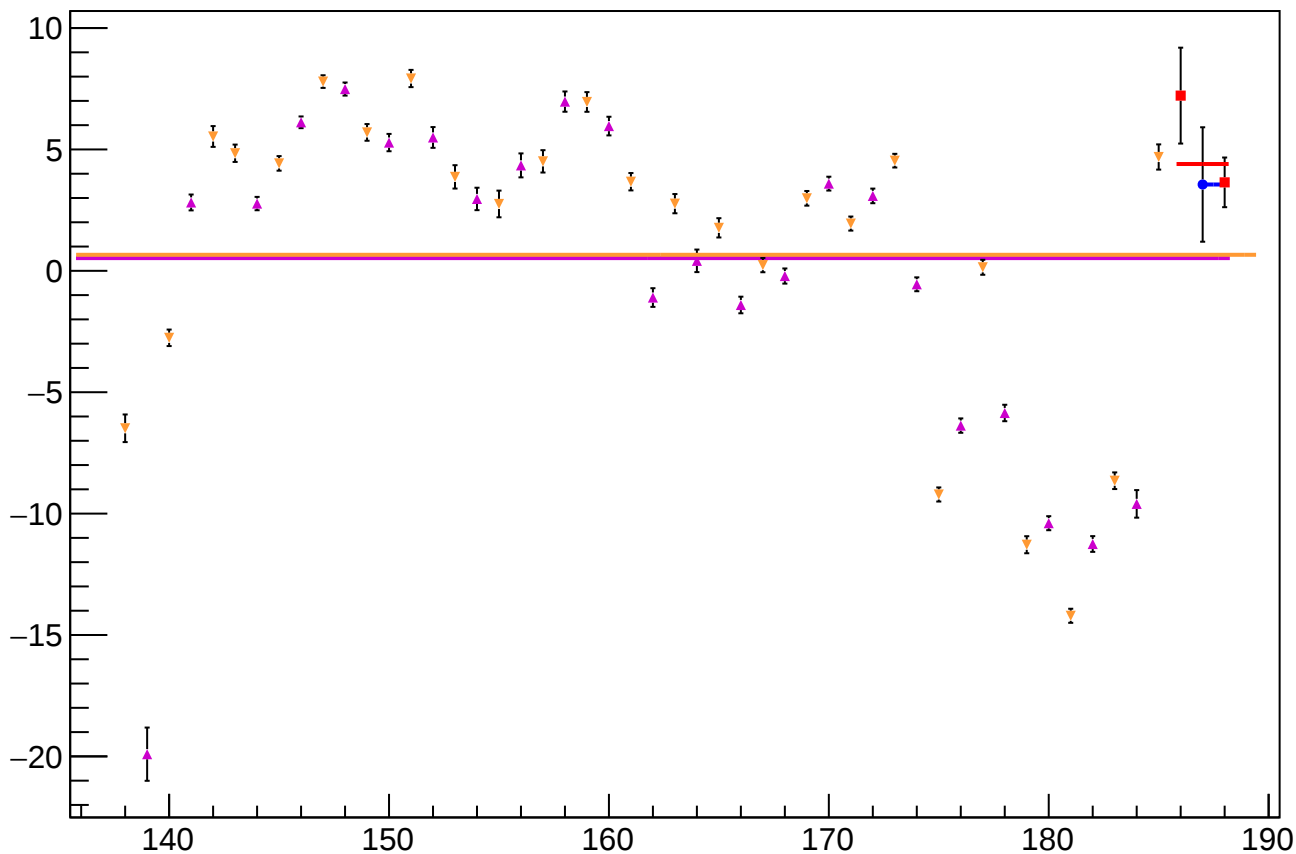
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.318+/-1.459 χ^2 /NDF: 0.0/0
 Left Out: 17.367+/-0.087 χ^2 /NDF:16337.6/24
 Right Out: -5.523+/-0.651 χ^2 /NDF: 3.8/1
 Left In: 17.355+/-0.089 χ^2 /NDF:12745.1/22

Left: 17.361+/-0.062 χ^2 /NDF: 29082.8/47
 Right: -5.655+/-0.594 χ^2 /NDF: 4.0/2
 In: 17.268+/-0.089 χ^2 /NDF:13007.5/23
 Out: 16.965+/-0.086 χ^2 /NDF:17556.5/26
 All: 17.112+/-0.062 χ^2 /NDF: 30570.0/50

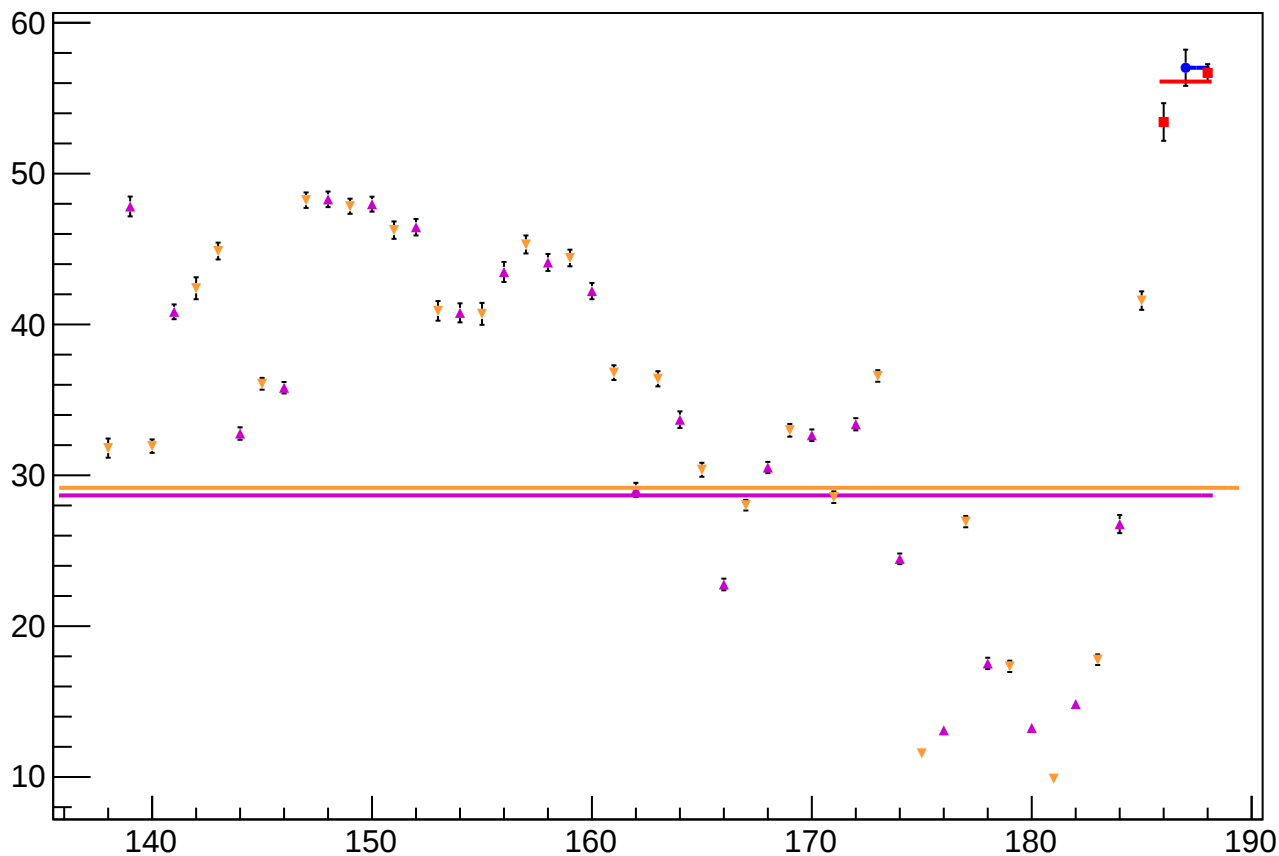
reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.556 ± 2.357 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: 0.661 ± 0.069 $\chi^2/\text{NDF}: 8553.9/24$
 Right Out: 4.400 ± 0.908 $\chi^2/\text{NDF}: 2.6/1$
 Left In: 0.524 ± 0.071 $\chi^2/\text{NDF}: 6729.7/22$

Left: 0.594 ± 0.050 $\chi^2/\text{NDF}: 15285.5/47$
 Right: 4.291 ± 0.848 $\chi^2/\text{NDF}: 2.7/2$
 In: 0.527 ± 0.071 $\chi^2/\text{NDF}: 6731.3/23$
 Out: 0.682 ± 0.069 $\chi^2/\text{NDF}: 8573.3/26$
 All: 0.606 ± 0.049 $\chi^2/\text{NDF}: 15307.1/50$

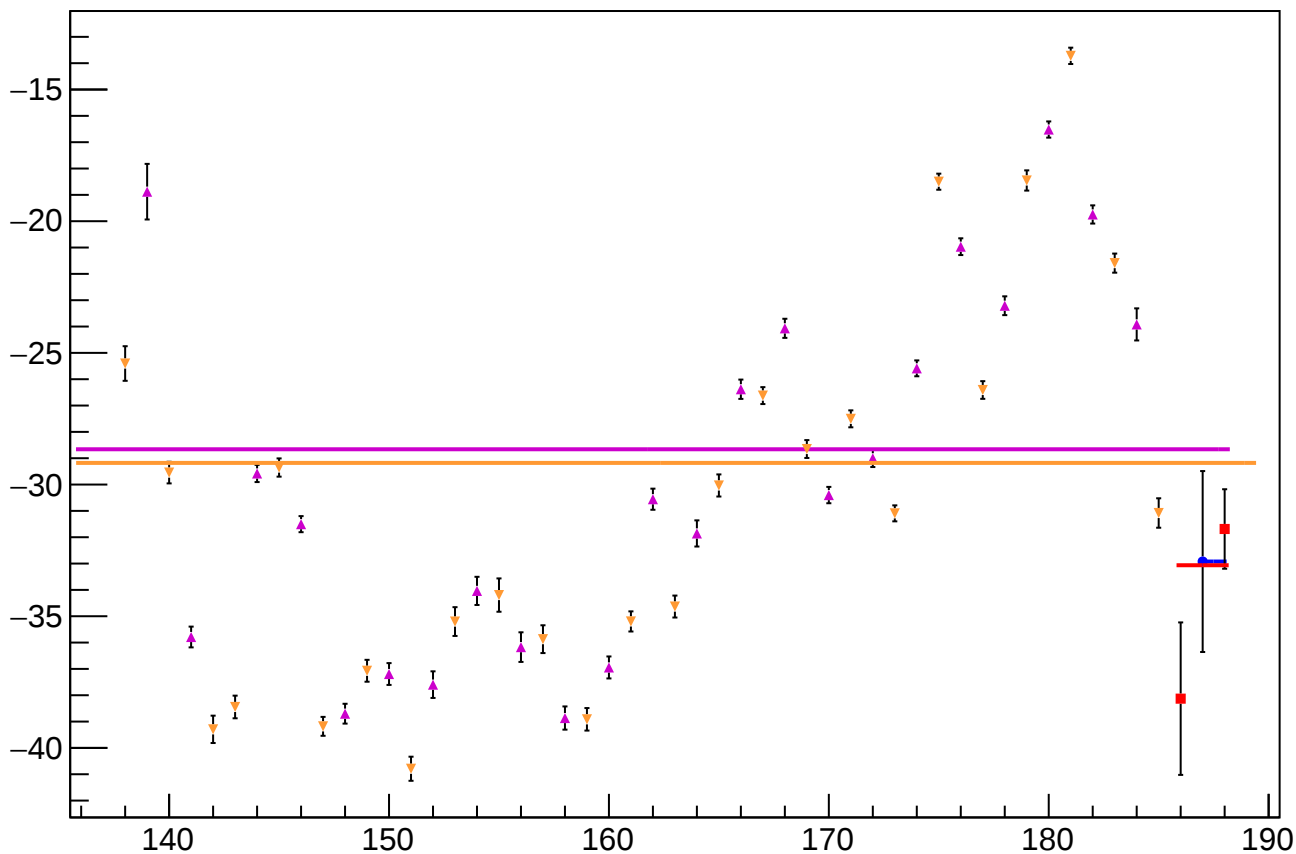
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 57.019 $\pm$ 1.199 χ^2 /NDF: 0.0/0
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 56.102 $\pm$ 0.525 χ^2 /NDF: 5.6/1
 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: 56.250 $\pm$ 0.481 χ^2 /NDF: 6.1/2
 In: 28.823 $\pm$ 0.089 χ^2 /NDF:17403.3/23
 Out: 29.904 $\pm$ 0.087 χ^2 /NDF:21541.1/26
 All: 29.377 $\pm$ 0.062 χ^2 /NDF: 39020.2/50

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



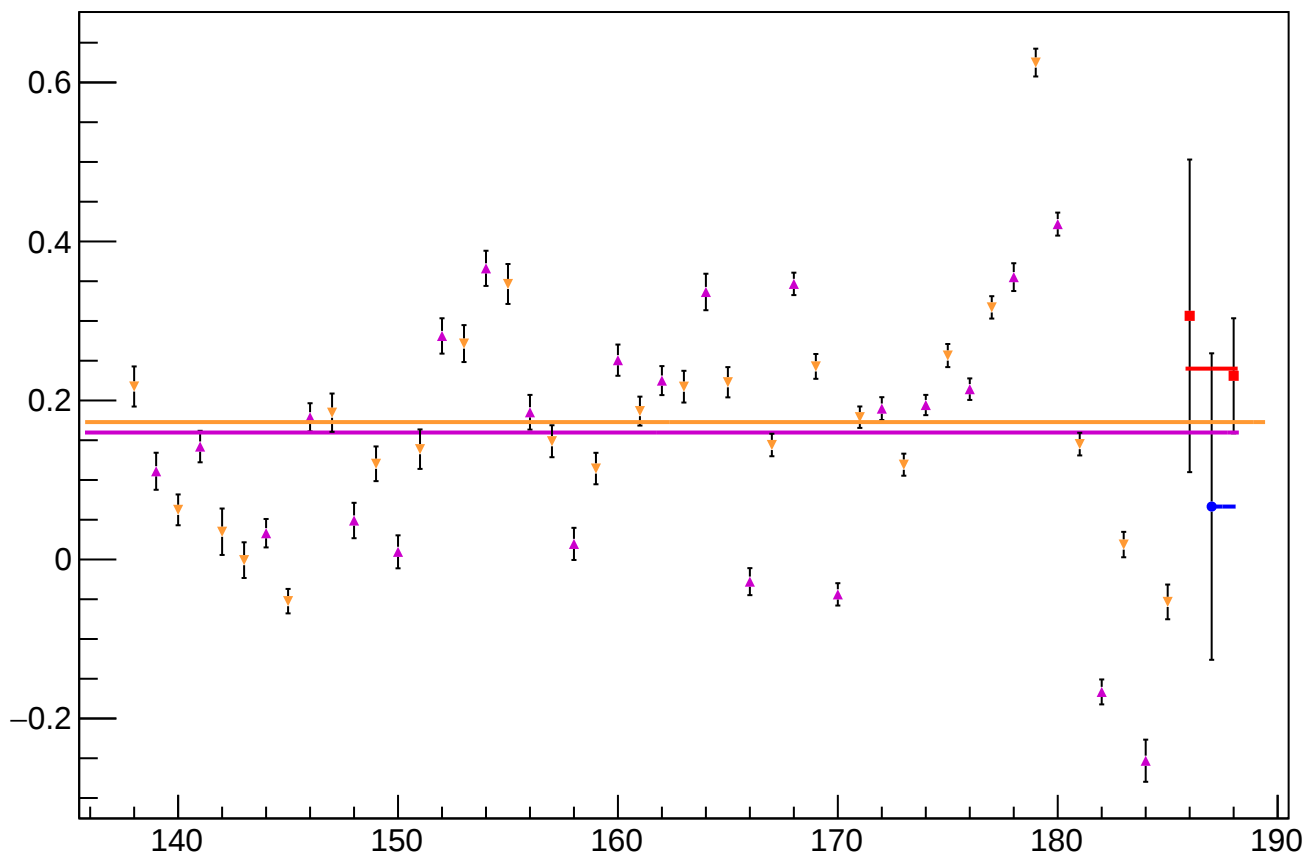
Right In: -32.923 ± 3.435 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -33.064 ± 1.338 $\chi^2/\text{NDF}: 3.9/1$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -33.045 ± 1.247 $\chi^2/\text{NDF}: 3.9/2$

In: -28.663 ± 0.080 $\chi^2/\text{NDF}: 6671.7/23$
 Out: -29.191 ± 0.078 $\chi^2/\text{NDF}: 9093.7/26$

All: -28.933 ± 0.056 $\chi^2/\text{NDF}: 15787.8/50$

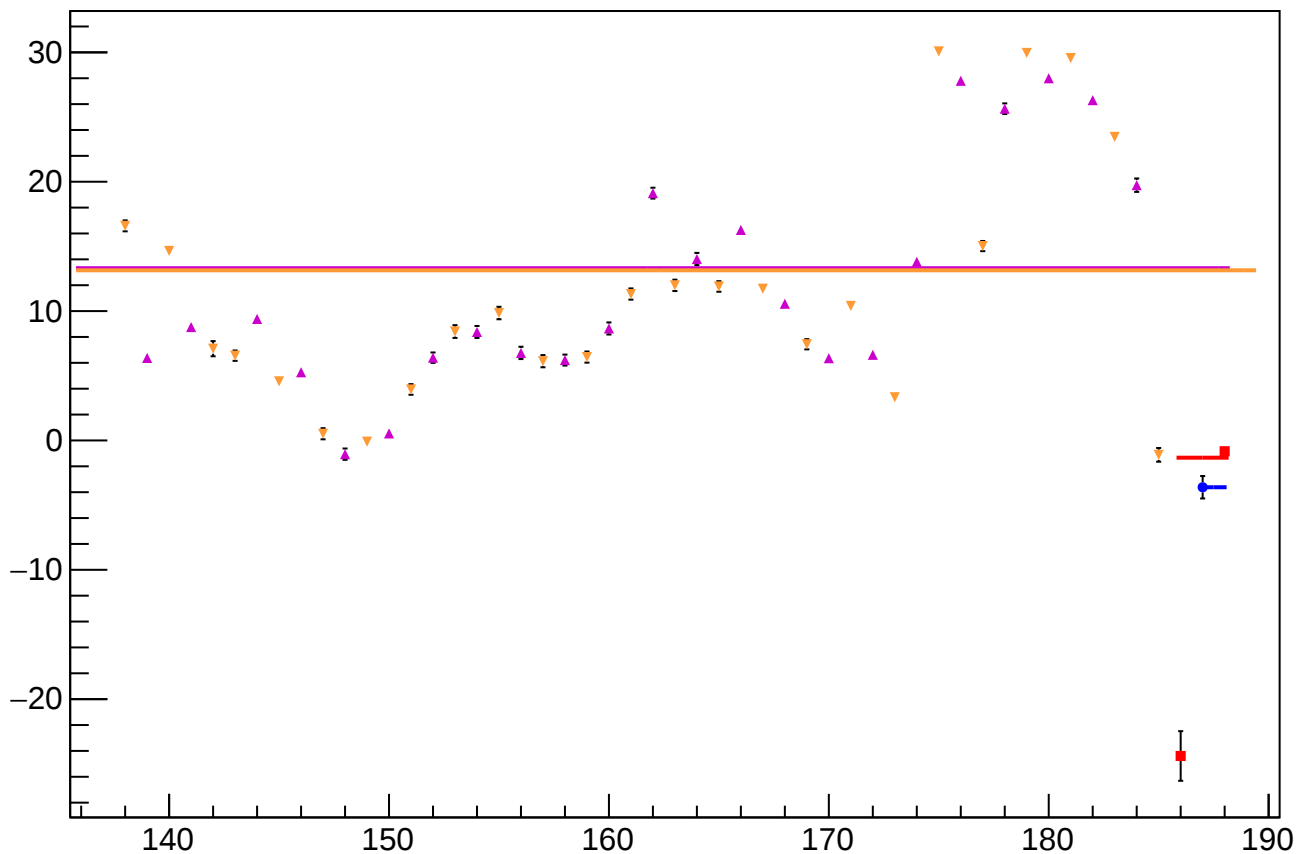
reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.067 $\pm$ 0.193 χ^2 /NDF: 0.0/0
 Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24
 Right Out: 0.240 $\pm$ 0.068 χ^2 /NDF: 0.1/1
 Left In: 0.160 $\pm$ 0.004 χ^2 /NDF:2057.9/22

Left: 0.166 $\pm$ 0.003 χ^2 /NDF: 3542.9/47
 Right: 0.221 $\pm$ 0.064 χ^2 /NDF: 0.9/2
 In: 0.160 $\pm$ 0.004 χ^2 /NDF:2058.1/23
 Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1479.6/26
 All: 0.166 $\pm$ 0.003 χ^2 /NDF: 3544.5/50

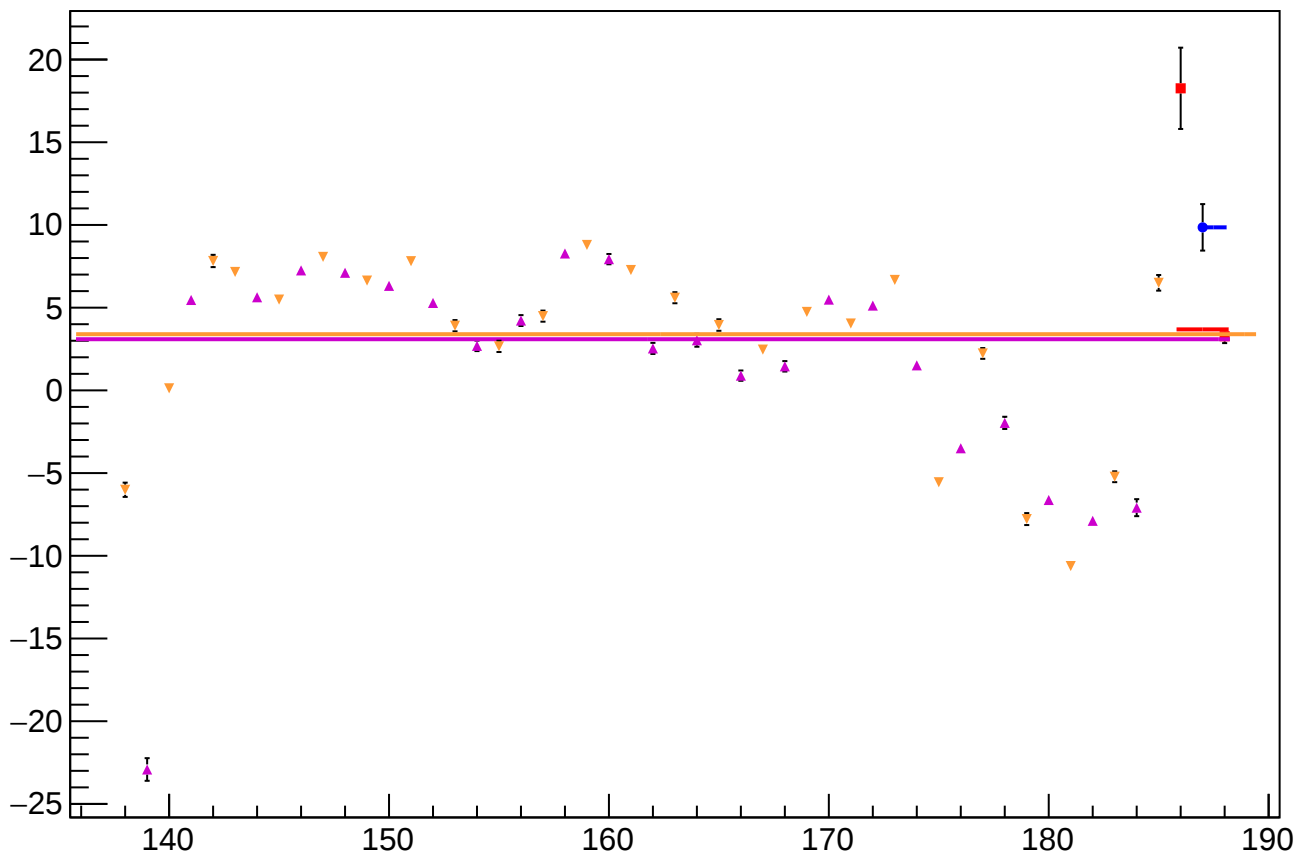
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.618 ± 0.867 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: 13.153 ± 0.075 $\chi^2/\text{NDF}: 17079.7/24$
 Right Out: -1.333 ± 0.279 $\chi^2/\text{NDF}: 147.5/1$
 Left In: 13.315 ± 0.077 $\chi^2/\text{NDF}: 13977.7/22$

Left: 13.232 ± 0.054 $\chi^2/\text{NDF}: 31059.6/47$
 Right: -1.547 ± 0.266 $\chi^2/\text{NDF}: 153.8/2$
 In: 13.182 ± 0.077 $\chi^2/\text{NDF}: 14355.9/23$
 Out: 12.171 ± 0.073 $\chi^2/\text{NDF}: 19741.4/26$
 All: 12.649 ± 0.053 $\chi^2/\text{NDF}: 34188.7/50$

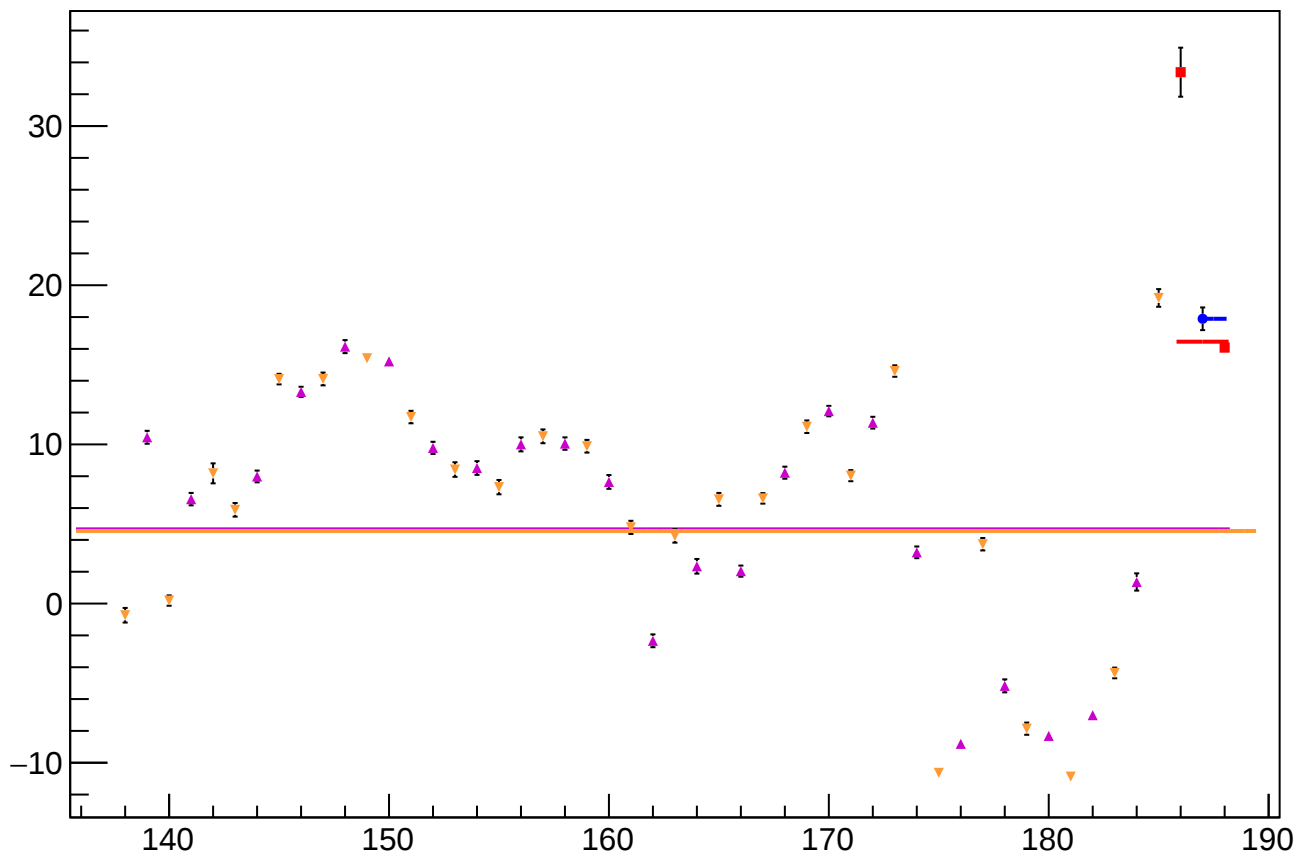
reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.855+/-1.405 χ^2/NDF : 0.0/0
 Left Out: 3.396+/-0.058 χ^2/NDF :8101.5/24
 Right Out: 3.687+/-0.409 χ^2/NDF : 36.2/1
 Left In: 3.092+/-0.061 χ^2/NDF :7104.4/22

Left: 3.250+/-0.042 χ^2/NDF : 15218.9/47
 Right: 4.168+/-0.392 χ^2/NDF : 53.9/2
 In: 3.105+/-0.061 χ^2/NDF :7127.5/23
 Out: 3.402+/-0.058 χ^2/NDF :8138.2/26
 All: 3.260+/-0.042 χ^2/NDF : 15278.3/50

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 17.892 $\pm$ 0.713 χ^2 /NDF: 0.0/0

Left Out: 4.561 $\pm$ 0.075 χ^2 /NDF:13592.1/24

Right Out: 16.453 $\pm$ 0.226 χ^2 /NDF: 123.5/1

Left In: 4.662 $\pm$ 0.077 χ^2 /NDF:11281.5/22

Left: 4.610 $\pm$ 0.054 χ^2 /NDF: 24874.4/47

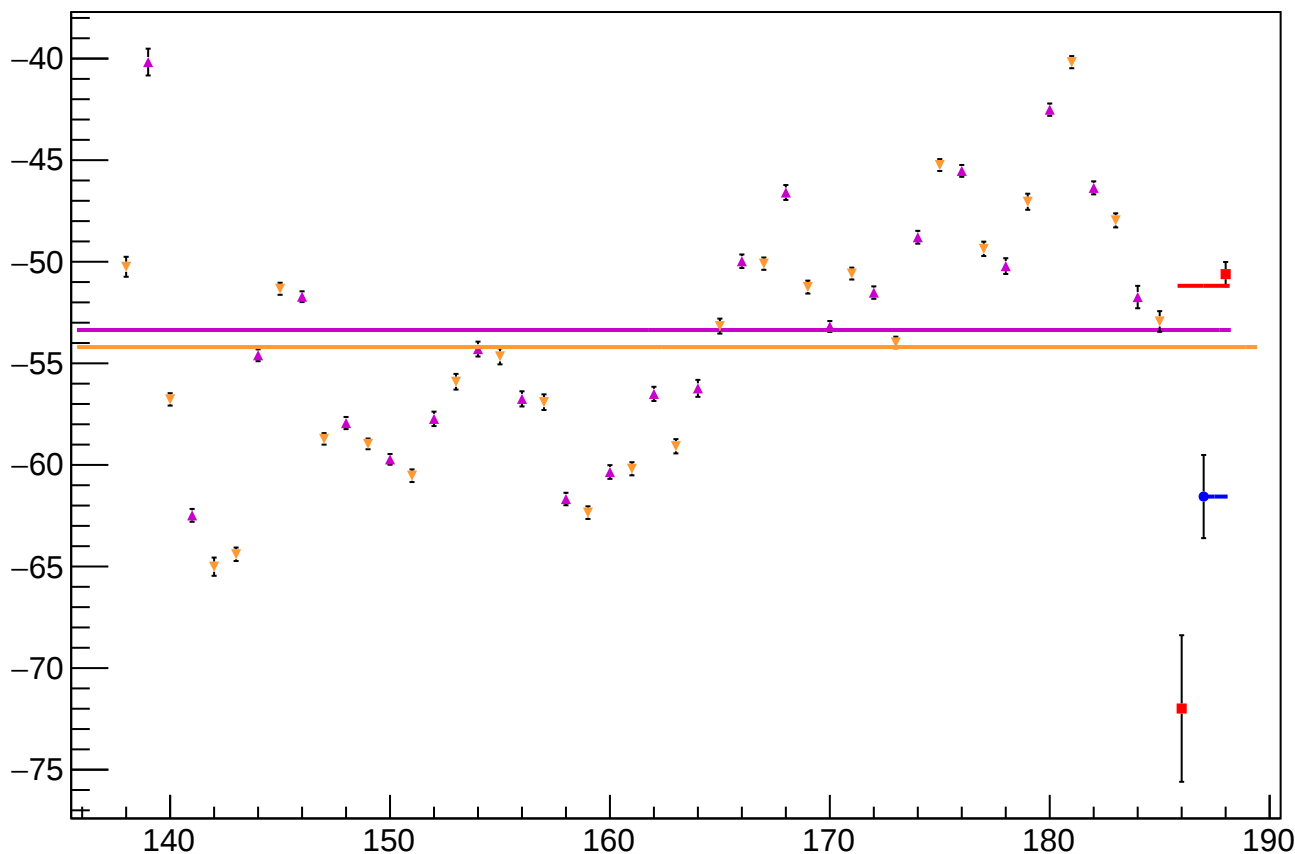
Right: 16.585 $\pm$ 0.216 χ^2 /NDF: 127.2/2

In: 4.814 $\pm$ 0.076 χ^2 /NDF:11621.5/23

Out: 5.750 $\pm$ 0.072 χ^2 /NDF:16203.5/26

All: 5.312 $\pm$ 0.052 χ^2 /NDF: 27905.0/50

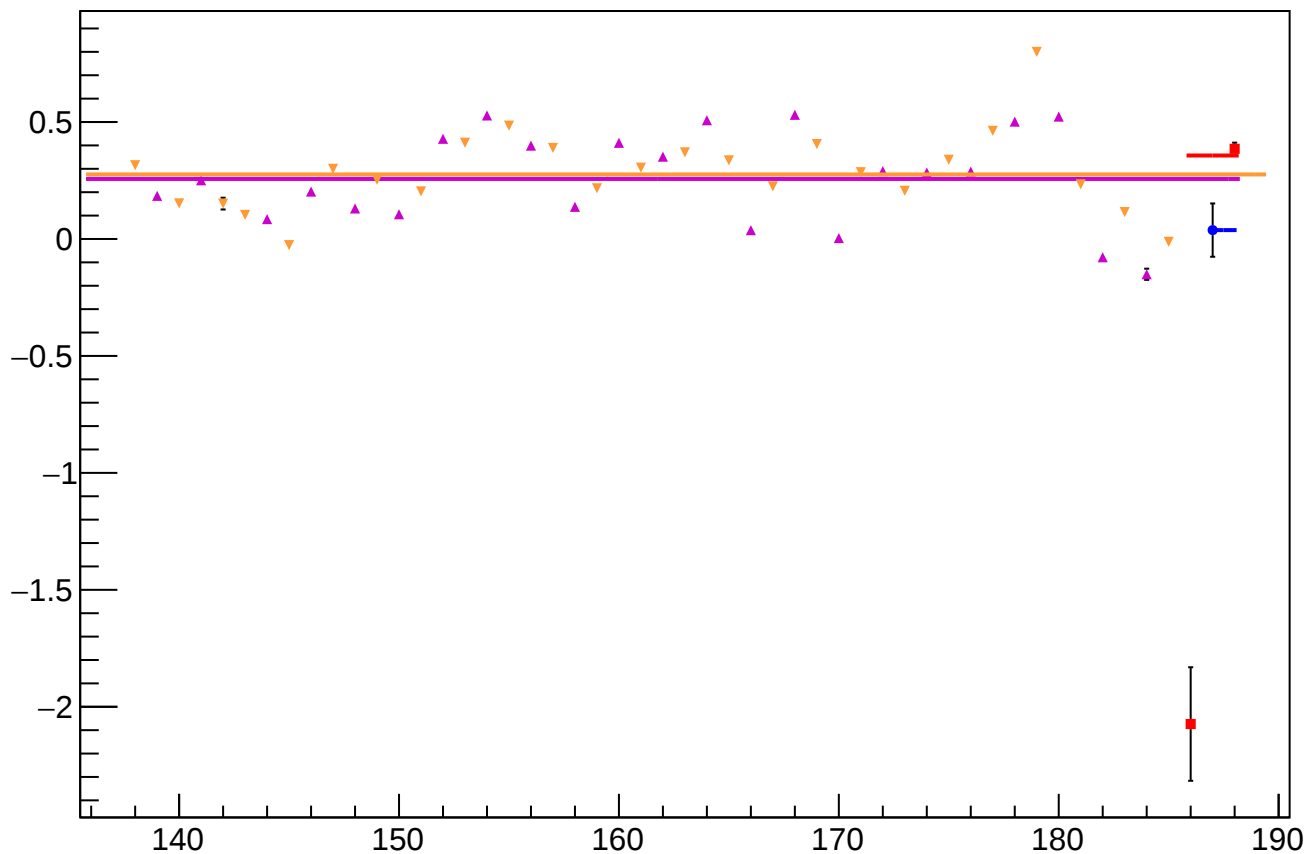
reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -61.557 ± 2.047 χ^2/NDF : 0.0/0
 Left Out: -54.199 ± 0.066 χ^2/NDF : 8454.7/24
 Right Out: -51.184 ± 0.591 χ^2/NDF : 34.2/1
 Left In: -53.359 ± 0.068 χ^2/NDF : 6882.0/22

Left: -53.792 ± 0.048 χ^2/NDF : 15414.3/47
 Right: -51.982 ± 0.568 χ^2/NDF : 57.9/2
 In: -53.368 ± 0.068 χ^2/NDF : 6898.1/23
 Out: -54.161 ± 0.066 χ^2/NDF : 8514.7/26
 All: -53.779 ± 0.048 χ^2/NDF : 15482.3/50

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.038 $\pm$ 0.114 χ^2 /NDF: 0.0/0

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.357 $\pm$ 0.026 χ^2 /NDF: 101.4/1

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

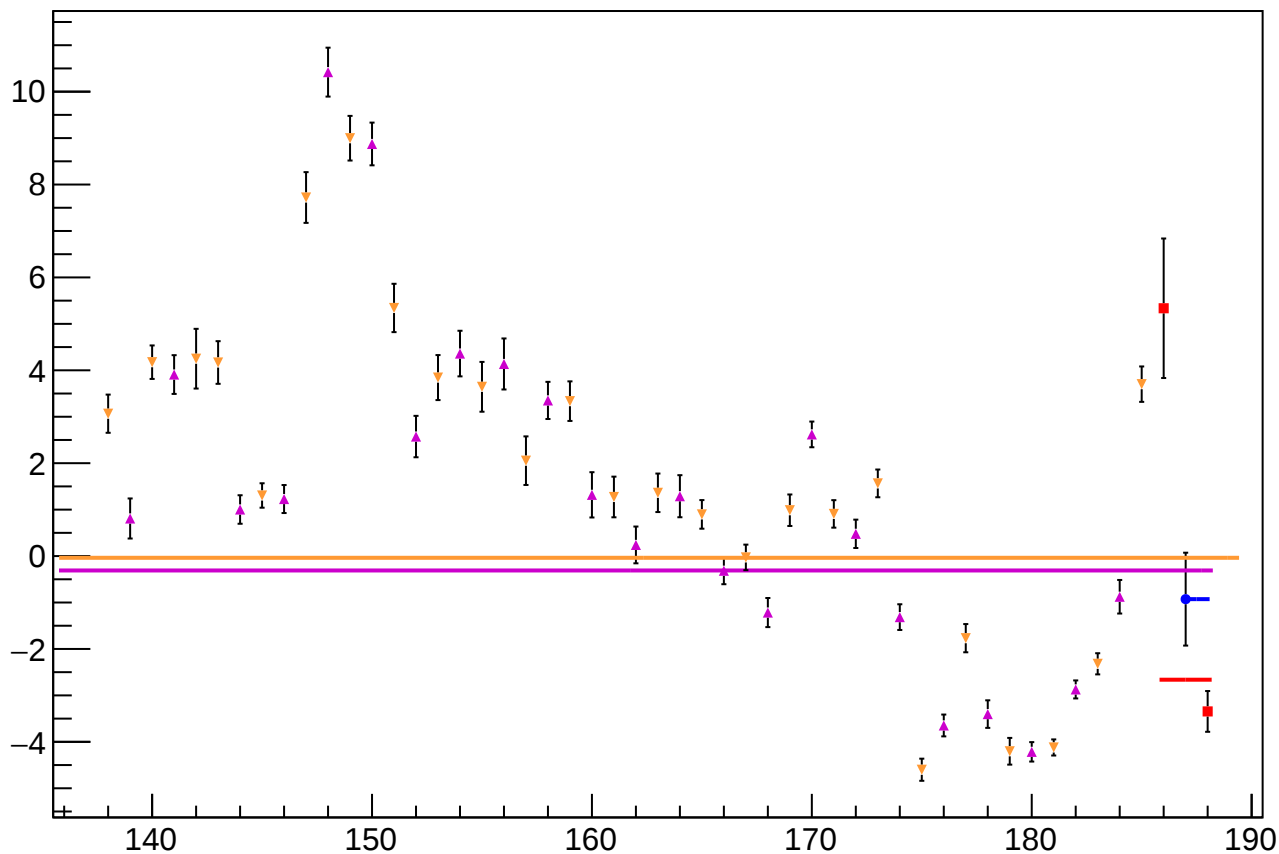
Right: 0.341 $\pm$ 0.026 χ^2 /NDF: 108.9/2

In: 0.256 $\pm$ 0.003 χ^2 /NDF:3627.5/23

Out: 0.277 $\pm$ 0.003 χ^2 /NDF:2734.4/26

All: 0.267 $\pm$ 0.002 χ^2 /NDF: 6384.3/50

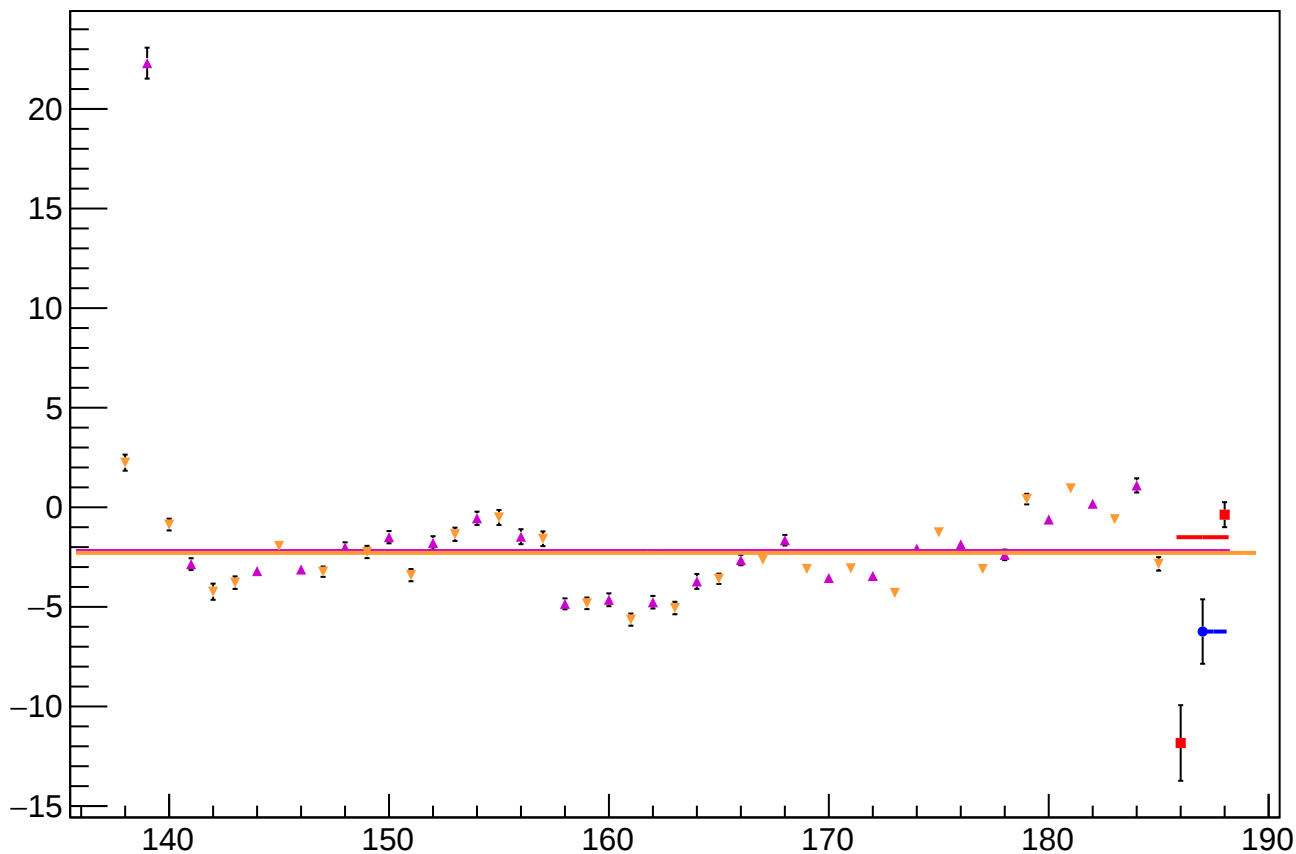
reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.927 ± 1.000 χ^2/NDF : 0.0/0
 Left Out: -0.037 ± 0.066 χ^2/NDF : 2637.7/24
 Right Out: -2.662 ± 0.421 χ^2/NDF : 30.8/1
 Left In: -0.310 ± 0.067 χ^2/NDF : 2250.5/22

Left: -0.171 ± 0.047 χ^2/NDF : 4896.5/47
 Right: -2.401 ± 0.388 χ^2/NDF : 33.3/2
 In: -0.313 ± 0.067 χ^2/NDF : 2250.8/23
 Out: -0.100 ± 0.065 χ^2/NDF : 2706.3/26
 All: -0.203 ± 0.047 χ^2/NDF : 4962.3/50

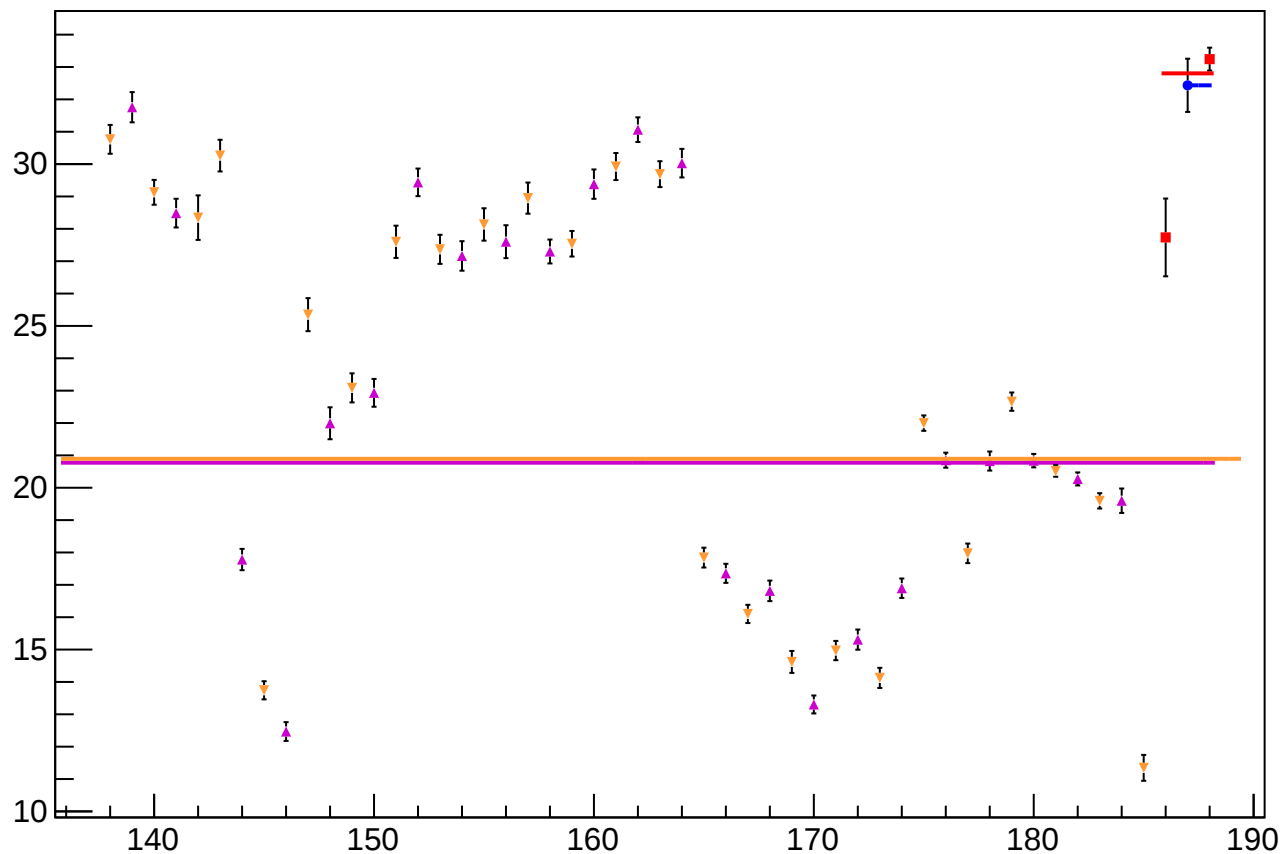
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.238 ± 1.618 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: -1.501 ± 0.596 $\chi^2/\text{NDF}: 32.9/1$
 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: -2.067 ± 0.559 $\chi^2/\text{NDF}: 40.4/2$
 In: -2.202 ± 0.055 $\chi^2/\text{NDF}: 1680.1/23$
 Out: -2.282 ± 0.054 $\chi^2/\text{NDF}: 1172.3/26$
 All: -2.243 ± 0.039 $\chi^2/\text{NDF}: 2853.5/50$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.434+/-0.822 χ^2/NDF : 0.0/0

Left Out: 20.894+/-0.067 χ^2/NDF : 6655.4/24

Right Out: 32.804+/-0.340 χ^2/NDF : 19.3/1

Left In: 20.774+/-0.068 χ^2/NDF : 5927.9/22

Left: 20.835+/-0.047 χ^2/NDF : 12584.8/47

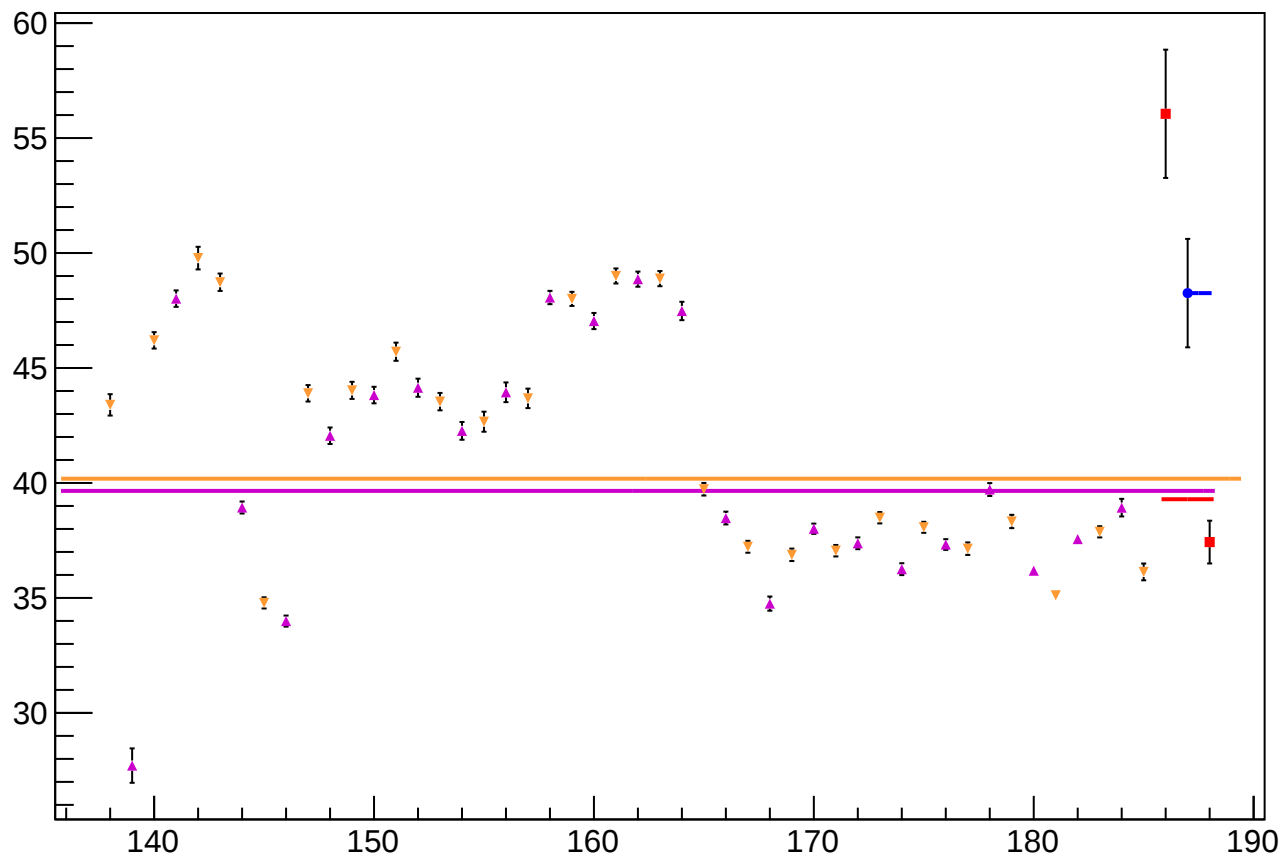
Right: 32.750+/-0.314 χ^2/NDF : 19.5/2

In: 20.853+/-0.067 χ^2/NDF : 6127.7/23

Out: 21.337+/-0.065 χ^2/NDF : 7859.4/26

All: 21.101+/-0.047 χ^2/NDF : 14013.6/50

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 48.257 $\pm$ 2.358 χ^2 /NDF: 0.0/0

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF:5932.7/24

Right Out: 39.293 $\pm$ 0.882 χ^2 /NDF: 40.1/1

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

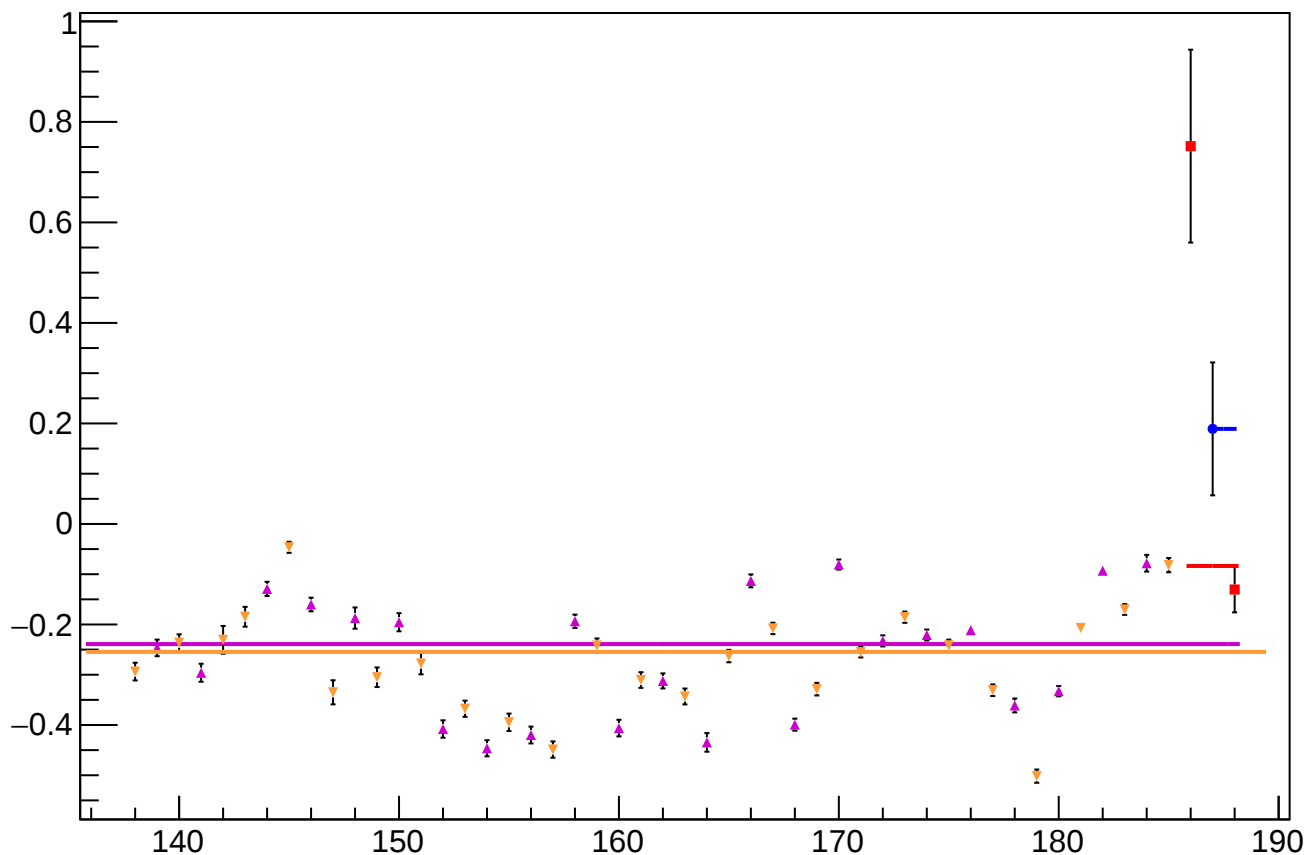
Right: 40.394 $\pm$ 0.826 χ^2 /NDF: 52.8/2

In: 39.661 $\pm$ 0.061 χ^2 /NDF:5311.9/23

Out: 40.182 $\pm$ 0.060 χ^2 /NDF:5973.8/26

All: 39.926 $\pm$ 0.043 χ^2 /NDF: 11322.4/50

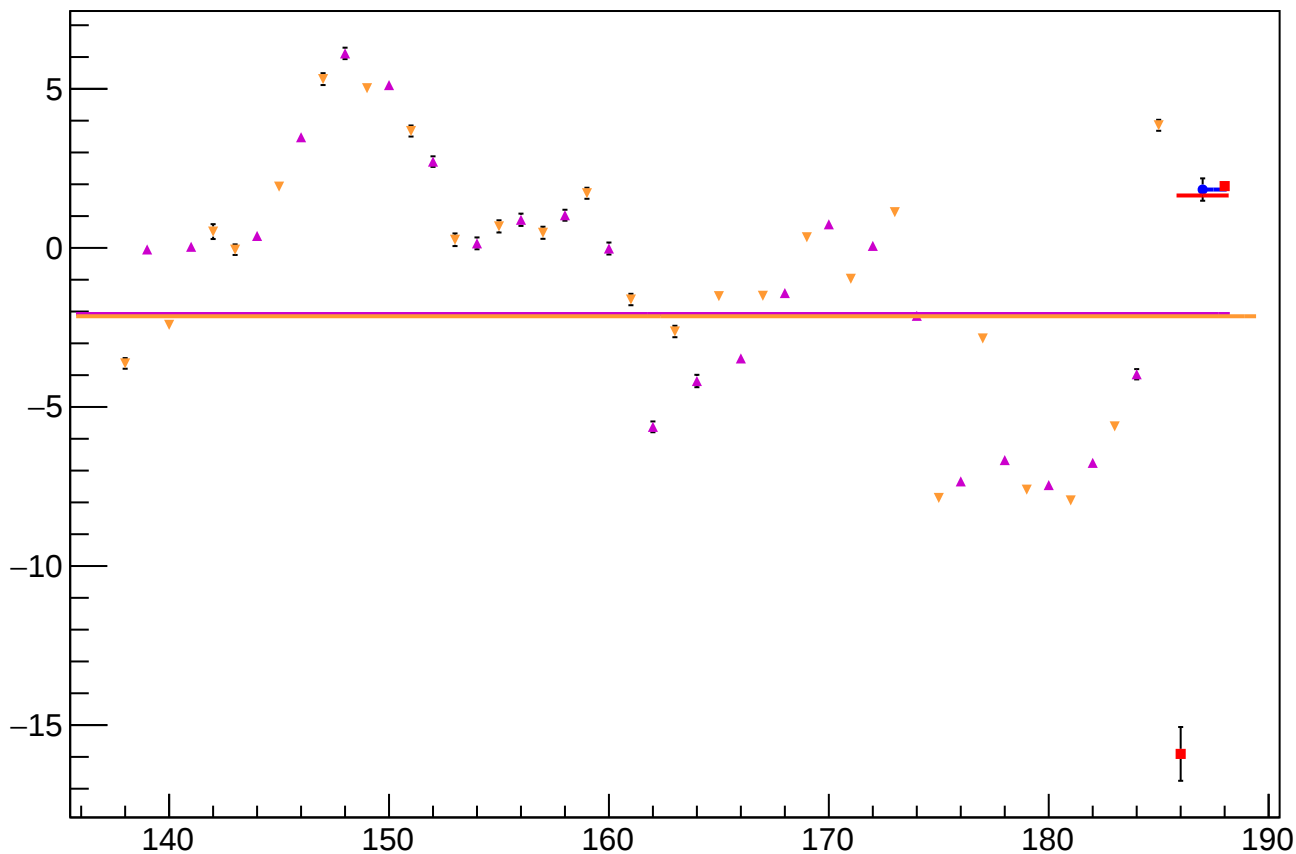
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.189 ± 0.132 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -0.255 ± 0.003 $\chi^2/\text{NDF}: 1420.4/24$
 Right Out: -0.084 ± 0.044 $\chi^2/\text{NDF}: 20.0/1$
 Left In: -0.239 ± 0.003 $\chi^2/\text{NDF}: 1750.5/22$

Left: -0.247 ± 0.002 $\chi^2/\text{NDF}: 3186.7/47$
 Right: -0.056 ± 0.042 $\chi^2/\text{NDF}: 23.8/2$
 In: -0.239 ± 0.003 $\chi^2/\text{NDF}: 1761.0/23$
 Out: -0.254 ± 0.003 $\chi^2/\text{NDF}: 1455.3/26$
 All: -0.246 ± 0.002 $\chi^2/\text{NDF}: 3231.2/50$

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



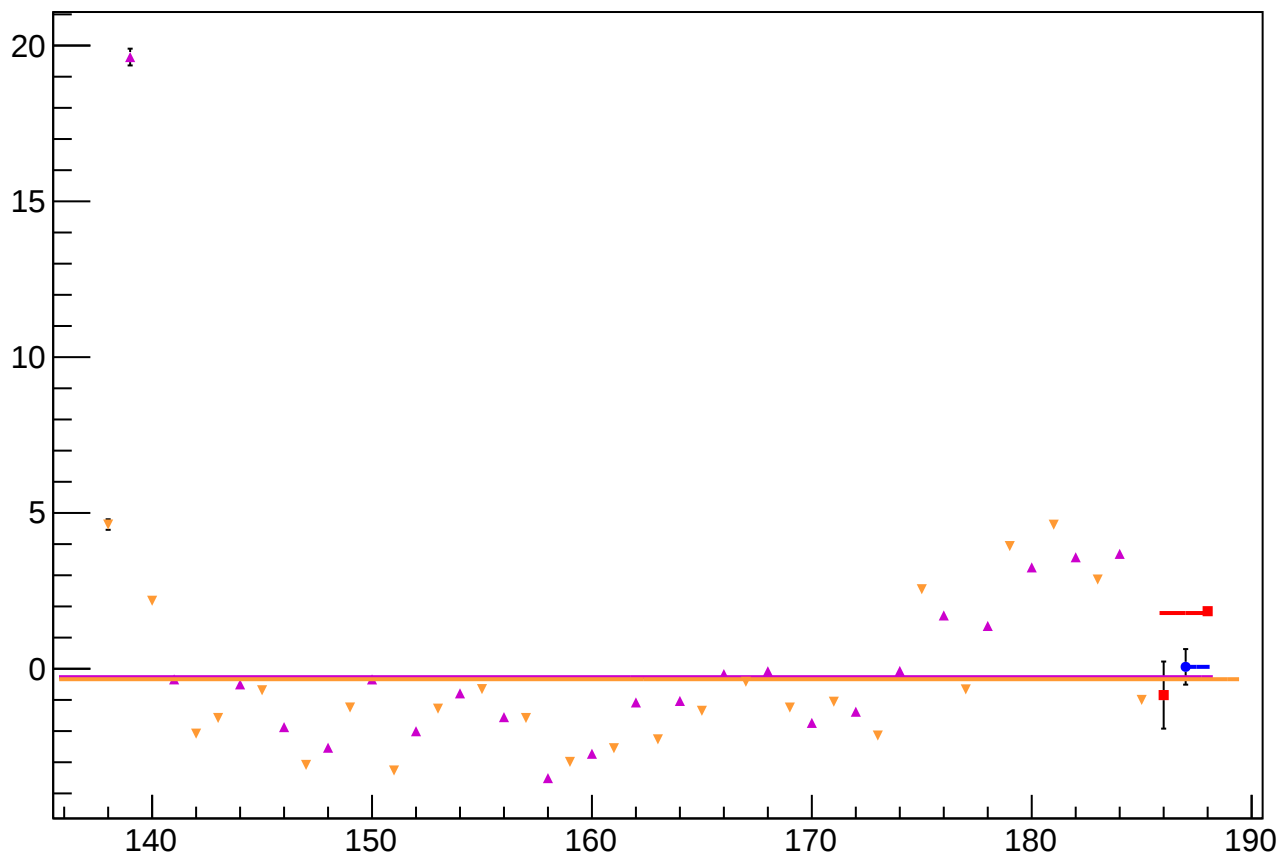
Right In: 1.834 $\pm$ 0.352 χ^2 /NDF: 0.0/0
 Left Out: -2.149 $\pm$ 0.026 χ^2 /NDF:24536.3/24
 Right Out: 1.648 $\pm$ 0.109 χ^2 /NDF: 438.4/1
 Left In: -2.078 $\pm$ 0.026 χ^2 /NDF:23245.8/22

Left: -2.114 $\pm$ 0.018 χ^2 /NDF: 47785.8/47
 Right: 1.664 $\pm$ 0.104 χ^2 /NDF: 438.7/2

In: -2.057 $\pm$ 0.026 χ^2 /NDF:23368.9/23
 Out: -1.949 $\pm$ 0.025 χ^2 /NDF:26129.1/26

All: -2.001 $\pm$ 0.018 χ^2 /NDF: 49507.0/50

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.061+/-0.571 χ^2/NDF : 0.0/0

Left Out: -0.335+/-0.021 χ^2/NDF :12596.1/24

Right Out: 1.789+/-0.160 χ^2/NDF : 6.1/1

Left In: -0.269+/-0.021 χ^2/NDF :13323.1/22

Left: -0.303+/-0.015 χ^2/NDF : 25924.2/47

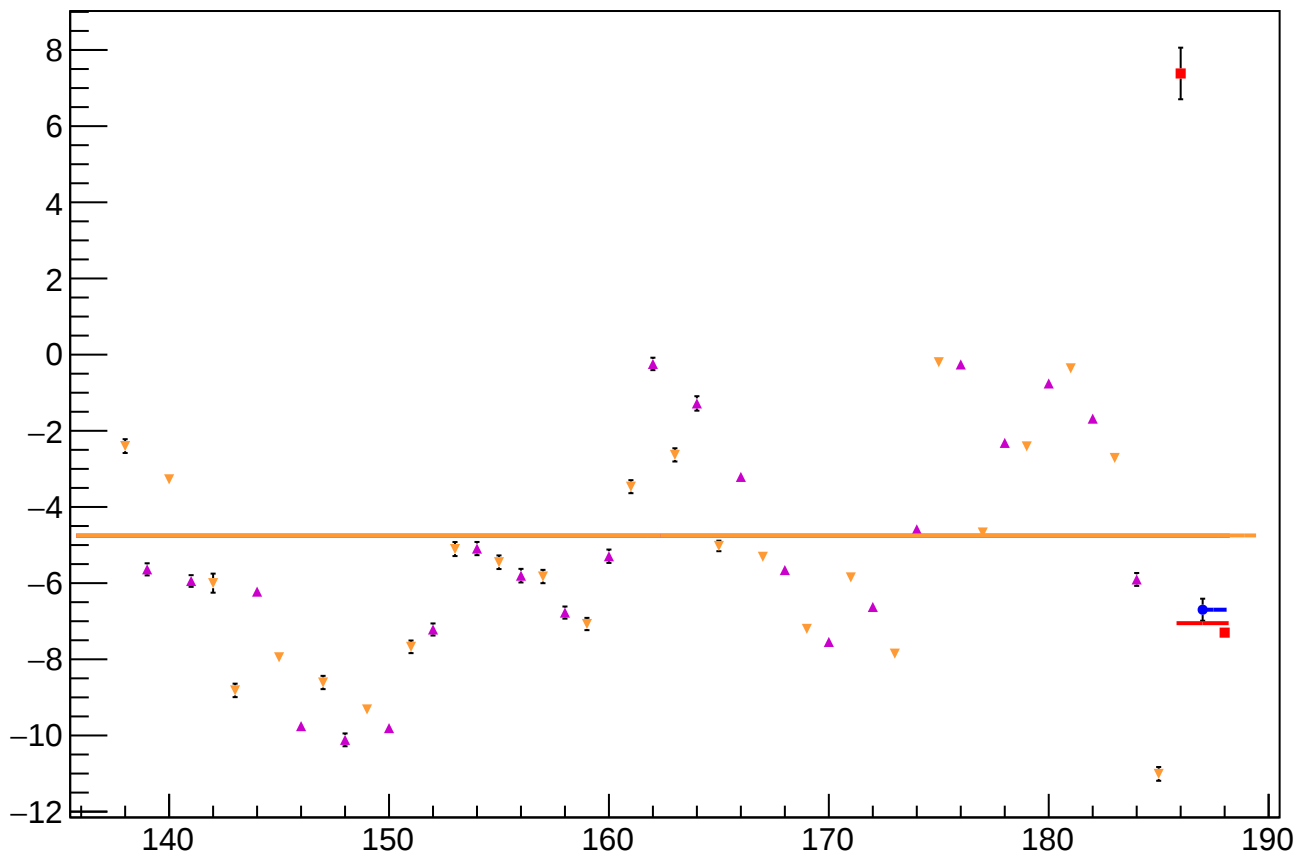
Right: 1.663+/-0.154 χ^2/NDF : 14.6/2

In: -0.269+/-0.021 χ^2/NDF :13323.4/23

Out: -0.301+/-0.020 χ^2/NDF :12776.4/26

All: -0.285+/-0.015 χ^2/NDF : 26100.9/50

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



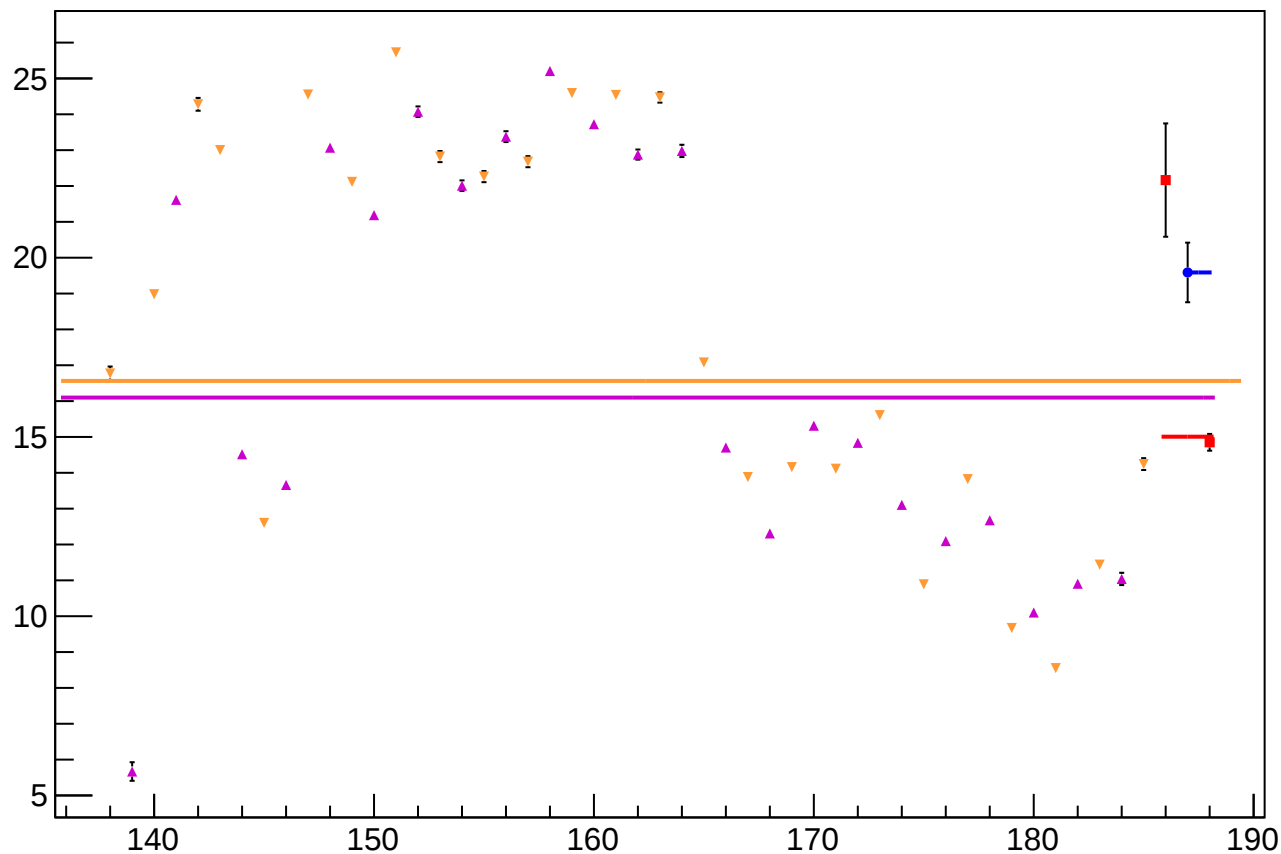
Right In: -6.698 ± 0.289 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$
 Right Out: -7.051 ± 0.088 $\chi^2/\text{NDF}: 462.0/1$
 Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$
 Right: -7.021 ± 0.084 $\chi^2/\text{NDF}: 463.4/2$

In: -4.769 ± 0.026 $\chi^2/\text{NDF}: 14164.0/23$
 Out: -4.930 ± 0.025 $\chi^2/\text{NDF}: 14380.5/26$

All: -4.853 ± 0.018 $\chi^2/\text{NDF}: 28564.7/50$

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 19.589 $\pm$ 0.831 χ^2 /NDF: 0.0/0

Left Out: 16.563 $\pm$ 0.023 χ^2 /NDF:53858.5/24

Right Out: 15.007 $\pm$ 0.231 χ^2 /NDF: 21.0/1

Left In: 16.098 $\pm$ 0.024 χ^2 /NDF:42345.7/22

Left: 16.335 $\pm$ 0.017 χ^2 /NDF: 96401.9/47

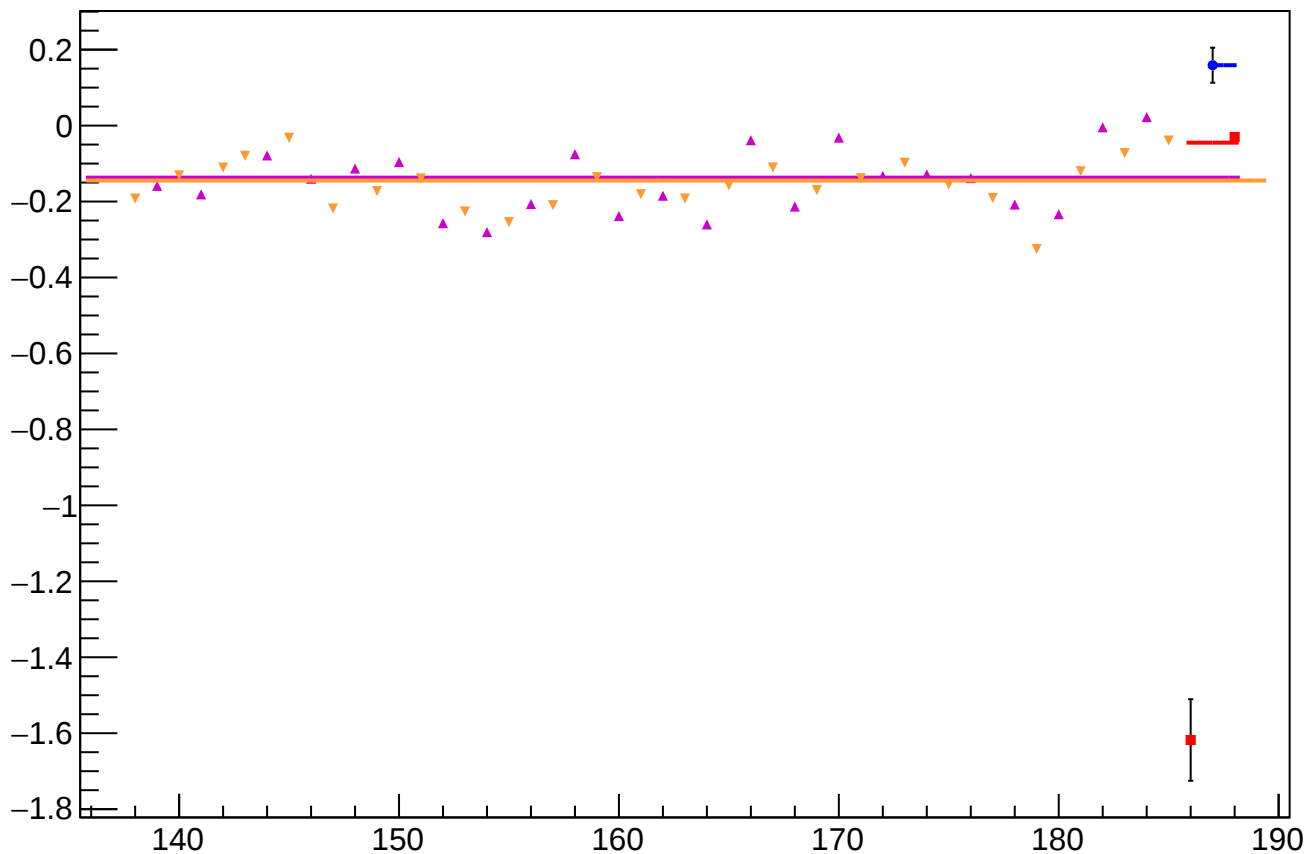
Right: 15.337 $\pm$ 0.223 χ^2 /NDF: 49.1/2

In: 16.101 $\pm$ 0.024 χ^2 /NDF:42363.3/23

Out: 16.547 $\pm$ 0.023 χ^2 /NDF:53924.2/26

All: 16.329 $\pm$ 0.016 χ^2 /NDF: 96471.0/50

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.159 $\pm$ 0.046 χ^2 /NDF: 0.0/0

Left Out: -0.145 $\pm$ 0.001 χ^2 /NDF: 3769.7/24

Right Out: -0.045 $\pm$ 0.010 χ^2 /NDF: 216.3/1

Left In: -0.137 $\pm$ 0.001 χ^2 /NDF: 5392.6/22

Left: -0.141 $\pm$ 0.001 χ^2 /NDF: 9187.6/47

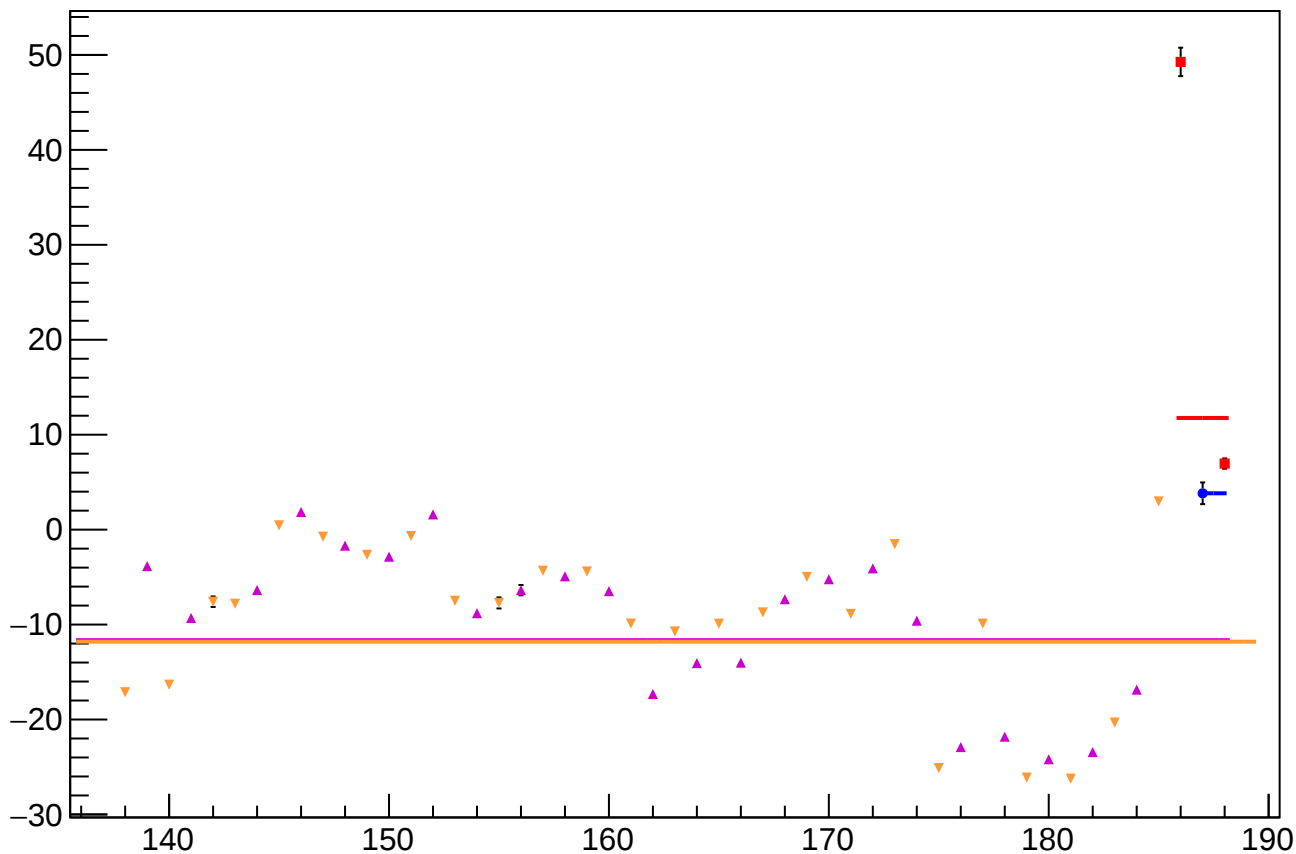
Right: -0.035 $\pm$ 0.010 χ^2 /NDF: 234.9/2

In: -0.137 $\pm$ 0.001 χ^2 /NDF: 5433.7/23

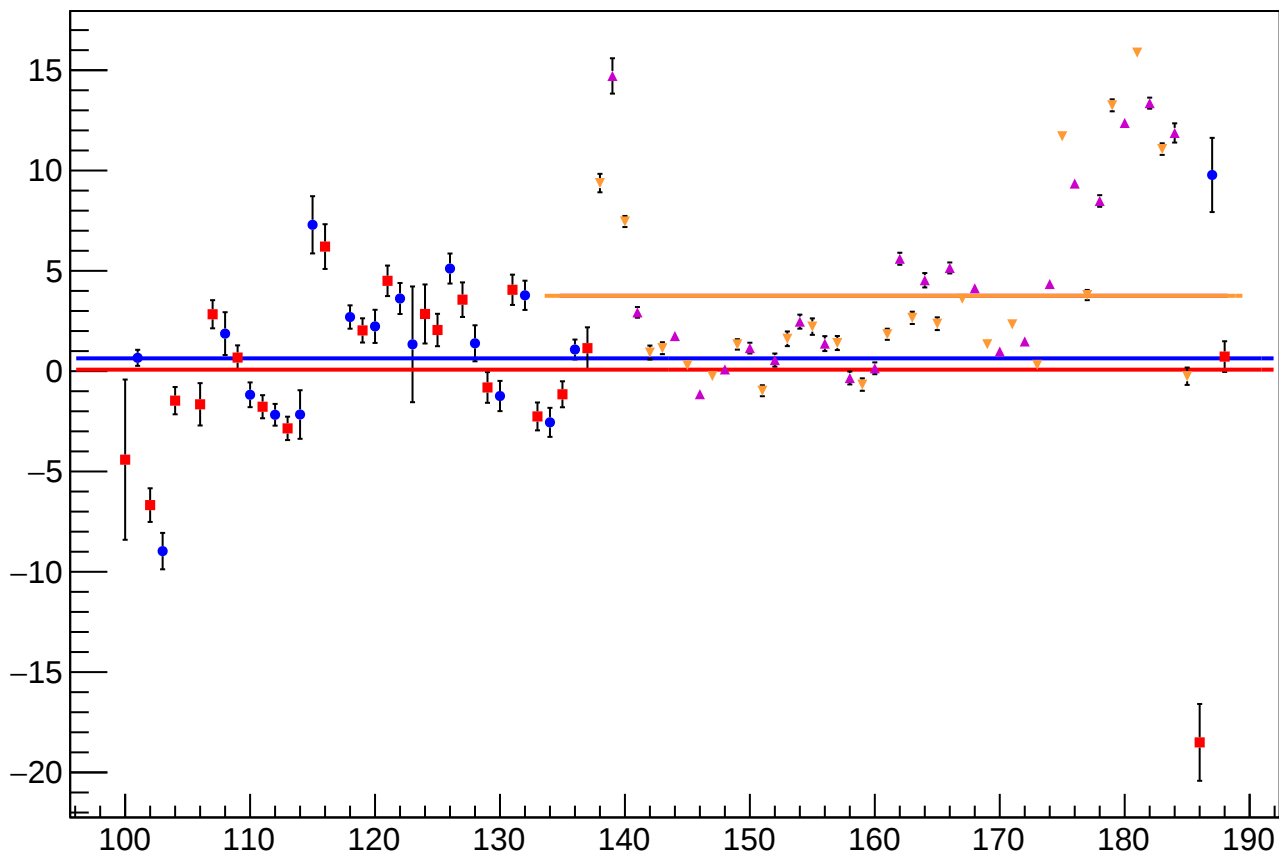
Out: -0.144 $\pm$ 0.001 χ^2 /NDF: 4077.5/26

All: -0.140 $\pm$ 0.001 χ^2 /NDF: 9531.2/50

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.638 $\pm$ 0.170 χ^2 /NDF: 313.3/17

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF:7450.7/24

Right Out: 0.075 $\pm$ 0.170 χ^2 /NDF: 366.6/20

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

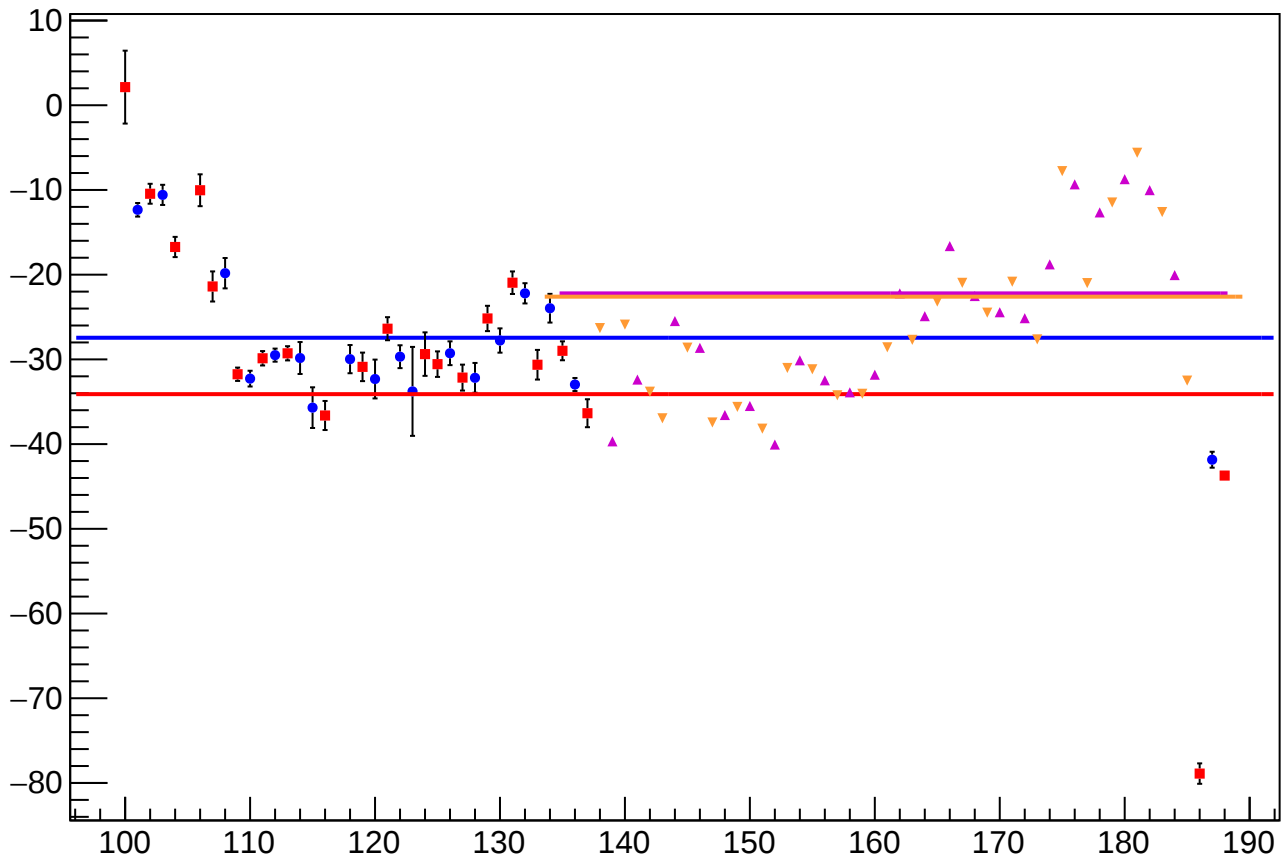
Right: 0.357 $\pm$ 0.120 χ^2 /NDF: 685.4/38

In: 3.445 $\pm$ 0.054 χ^2 /NDF:6246.5/40

Out: 3.401 $\pm$ 0.053 χ^2 /NDF:8242.0/45

All: 3.423 $\pm$ 0.038 χ^2 /NDF: 14488.8/86

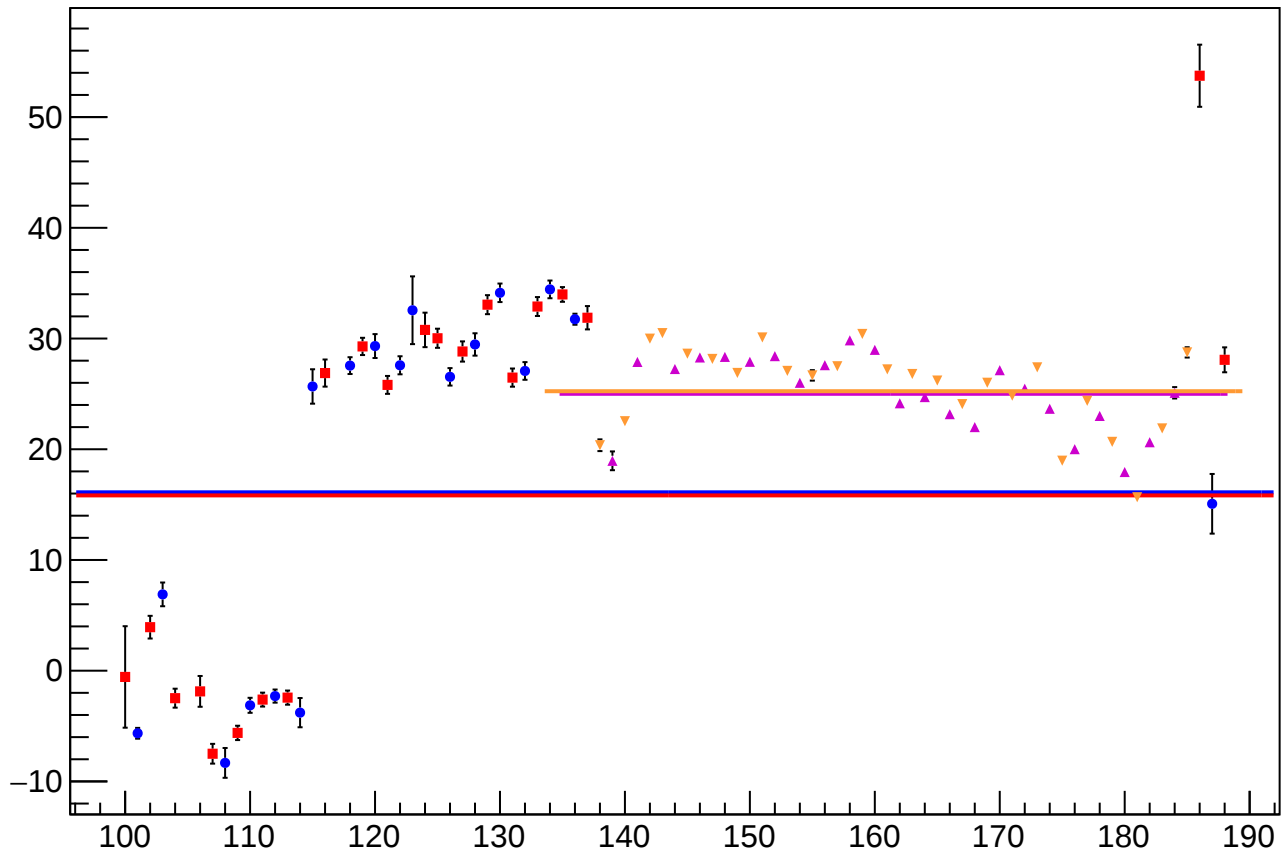
reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -27.445 ± 0.287 $\chi^2/\text{NDF}: 950.1/17$
 Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$
 Right Out: -34.103 ± 0.241 $\chi^2/\text{NDF}: 3051.1/20$
 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: -31.350 ± 0.184 $\chi^2/\text{NDF}: 4317.7/38$
 In: -22.517 ± 0.069 $\chi^2/\text{NDF}: 18891.6/40$
 Out: -23.512 ± 0.068 $\chi^2/\text{NDF}: 25088.6/45$
 All: -23.026 ± 0.049 $\chi^2/\text{NDF}: 44085.3/86$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 16.110 ± 0.192 $\chi^2/\text{NDF}: 7542.2/17$

Left Out: 25.242 ± 0.063 $\chi^2/\text{NDF}: 3786.5/24$

Right Out: 15.832 ± 0.194 $\chi^2/\text{NDF}: 7570.5/20$

Left In: 25.009 ± 0.064 $\chi^2/\text{NDF}: 2722.0/22$

Left: 25.128 ± 0.045 $\chi^2/\text{NDF}: 6515.2/47$

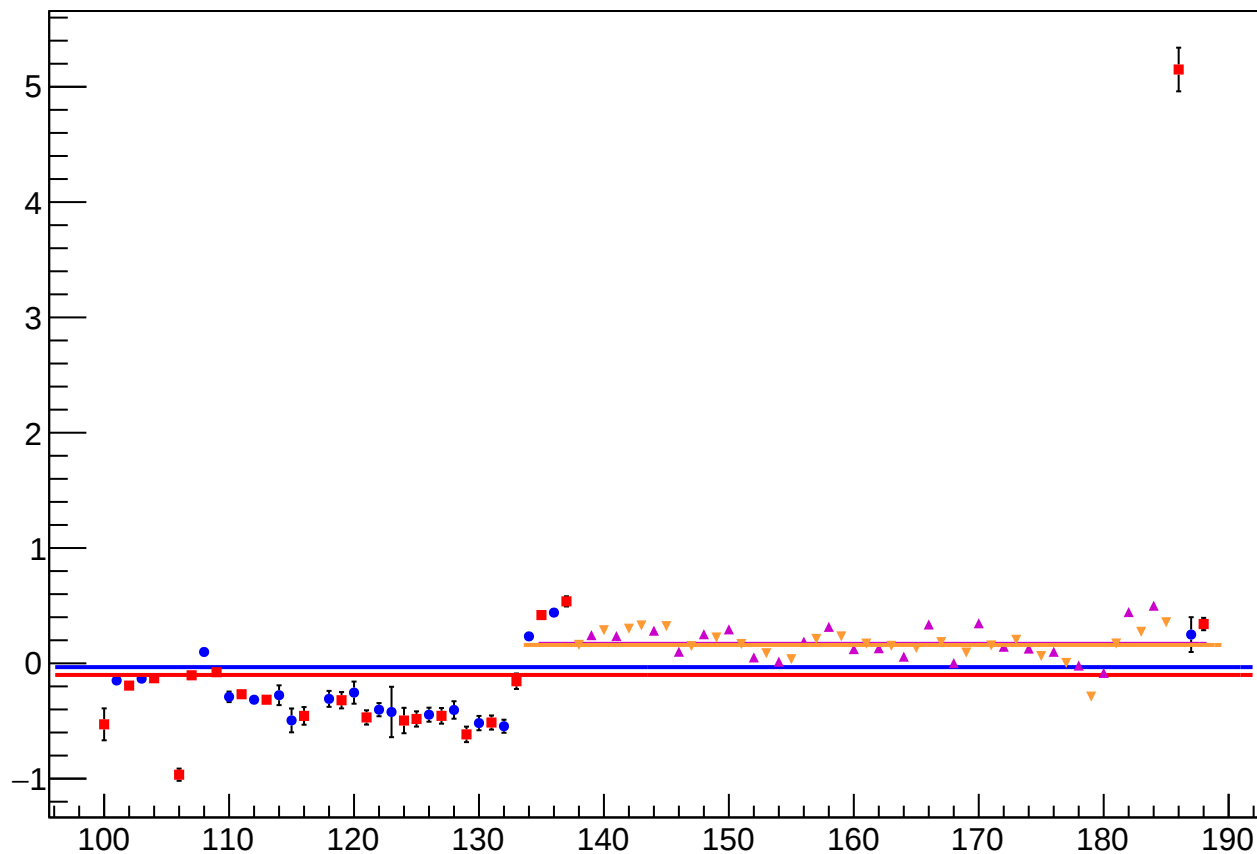
Right: 15.972 ± 0.136 $\chi^2/\text{NDF}: 15113.8/38$

In: 24.122 ± 0.061 $\chi^2/\text{NDF}: 12200.3/40$

Out: 24.353 ± 0.060 $\chi^2/\text{NDF}: 13488.8/45$

All: 24.240 ± 0.042 $\chi^2/\text{NDF}: 25696.5/86$

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.033 ± 0.010 χ^2/NDF : 1014.9/17

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.101 ± 0.010 χ^2/NDF : 2006.6/20

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

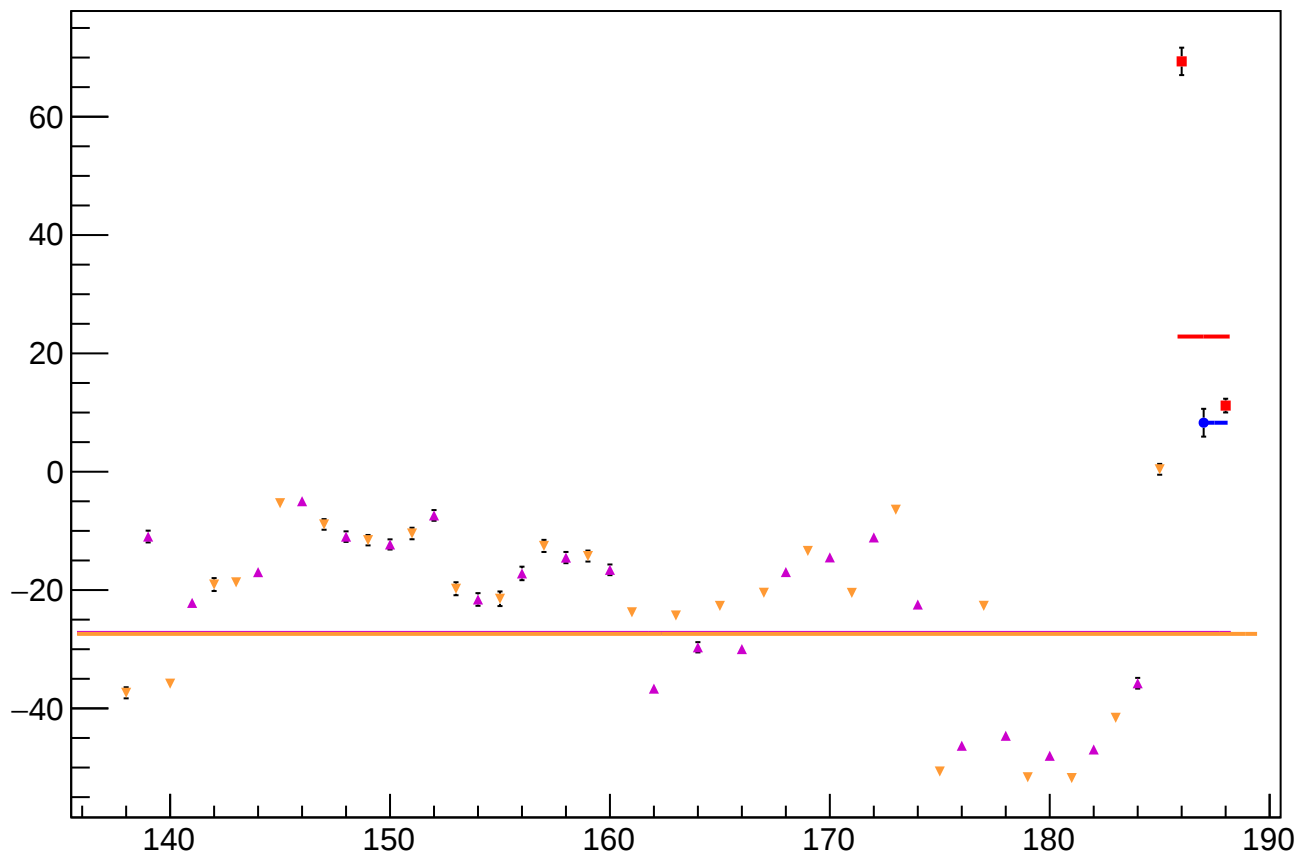
Right: -0.067 ± 0.007 χ^2/NDF : 3043.4/38

In: 0.154 ± 0.003 χ^2/NDF : 3788.1/40

Out: 0.140 ± 0.003 χ^2/NDF : 4475.8/45

All: 0.147 ± 0.002 χ^2/NDF : 8276.1/86

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.281 ± 2.351 χ^2/NDF : 0.0/0

Left Out: -27.408 ± 0.137 χ^2/NDF : 14850.5/24

Right Out: 22.847 ± 1.038 χ^2/NDF : 503.8/1

Left In: -27.243 ± 0.139 χ^2/NDF : 11305.2/22

Left: -27.327 ± 0.098 χ^2/NDF : 26156.4/47

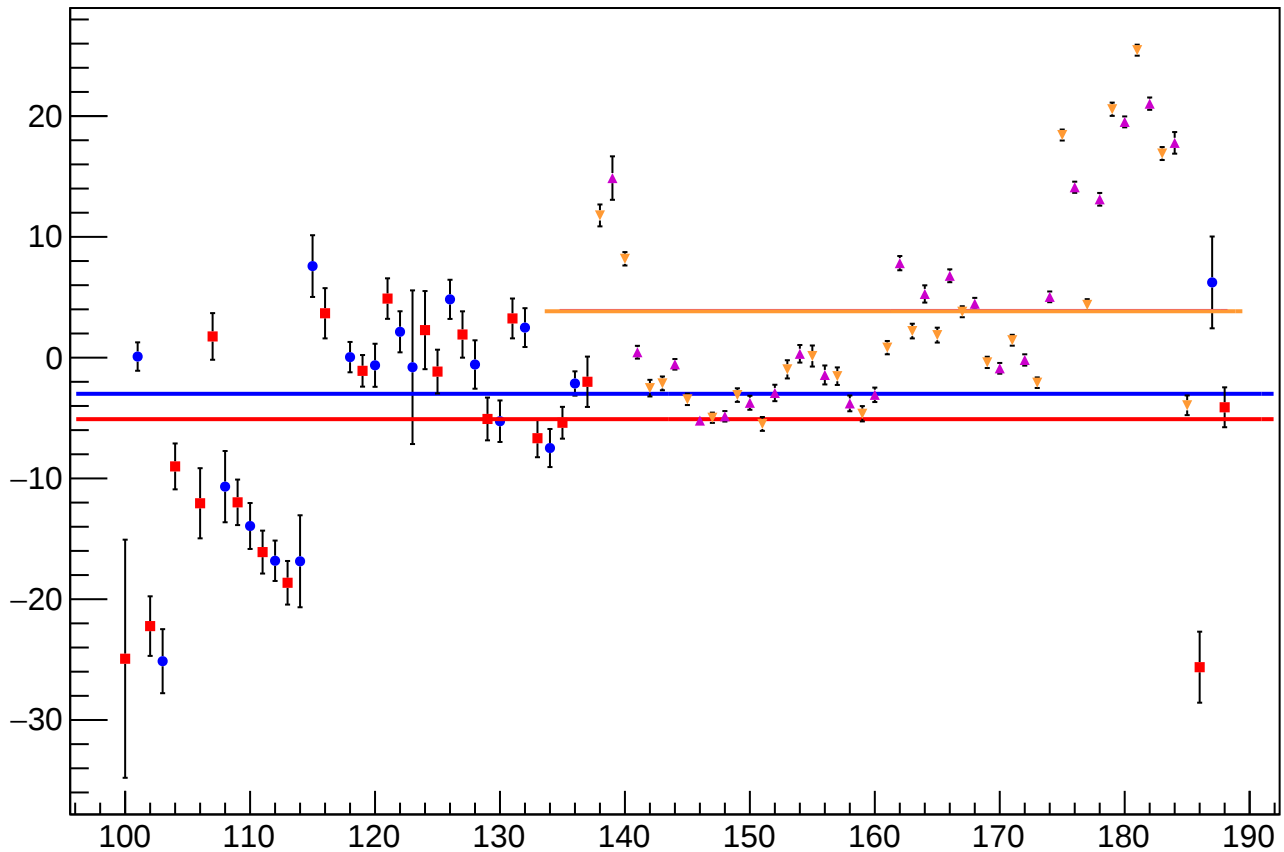
Right: 20.470 ± 0.950 χ^2/NDF : 535.9/2

In: -27.118 ± 0.139 χ^2/NDF : 11532.8/23

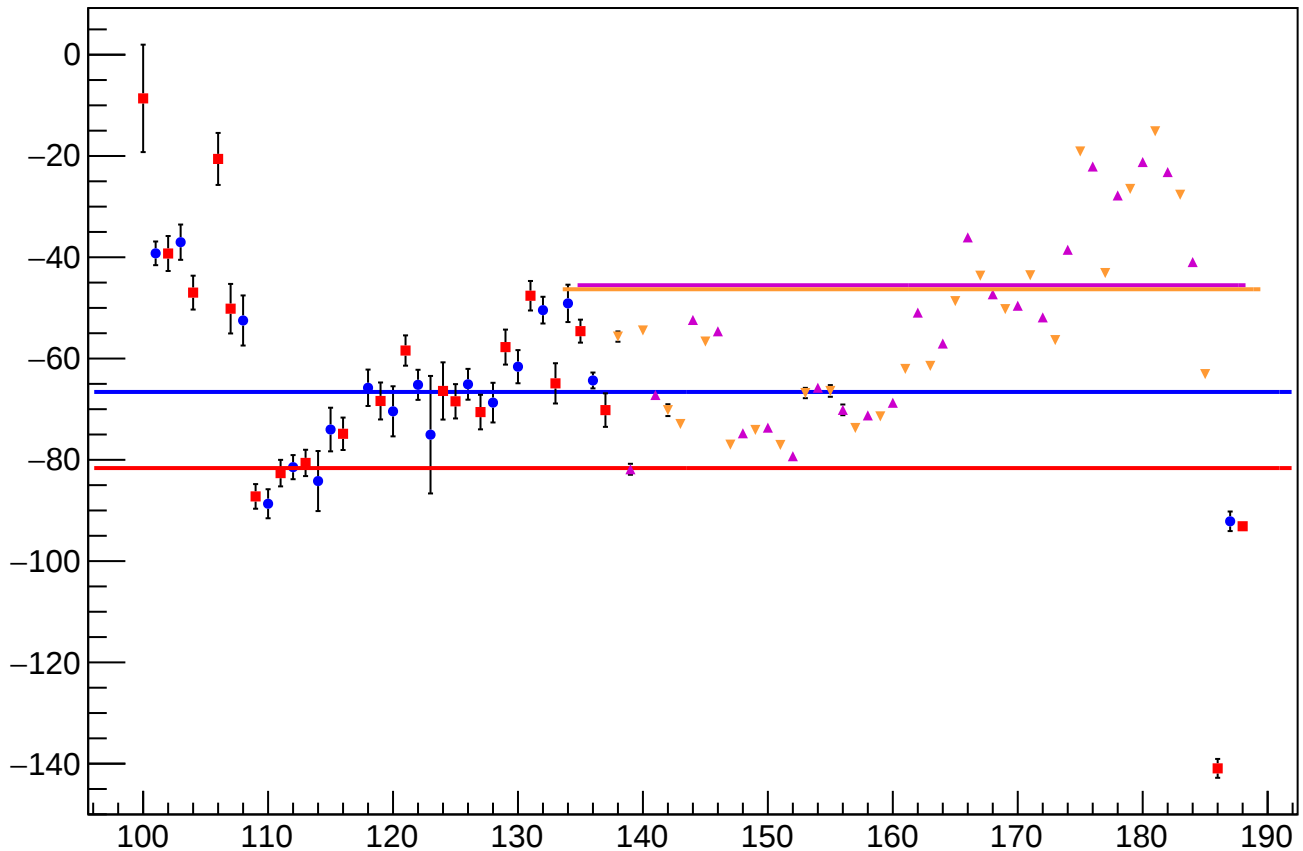
Out: -26.549 ± 0.136 χ^2/NDF : 17658.1/26

All: -26.827 ± 0.097 χ^2/NDF : 29199.5/50

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



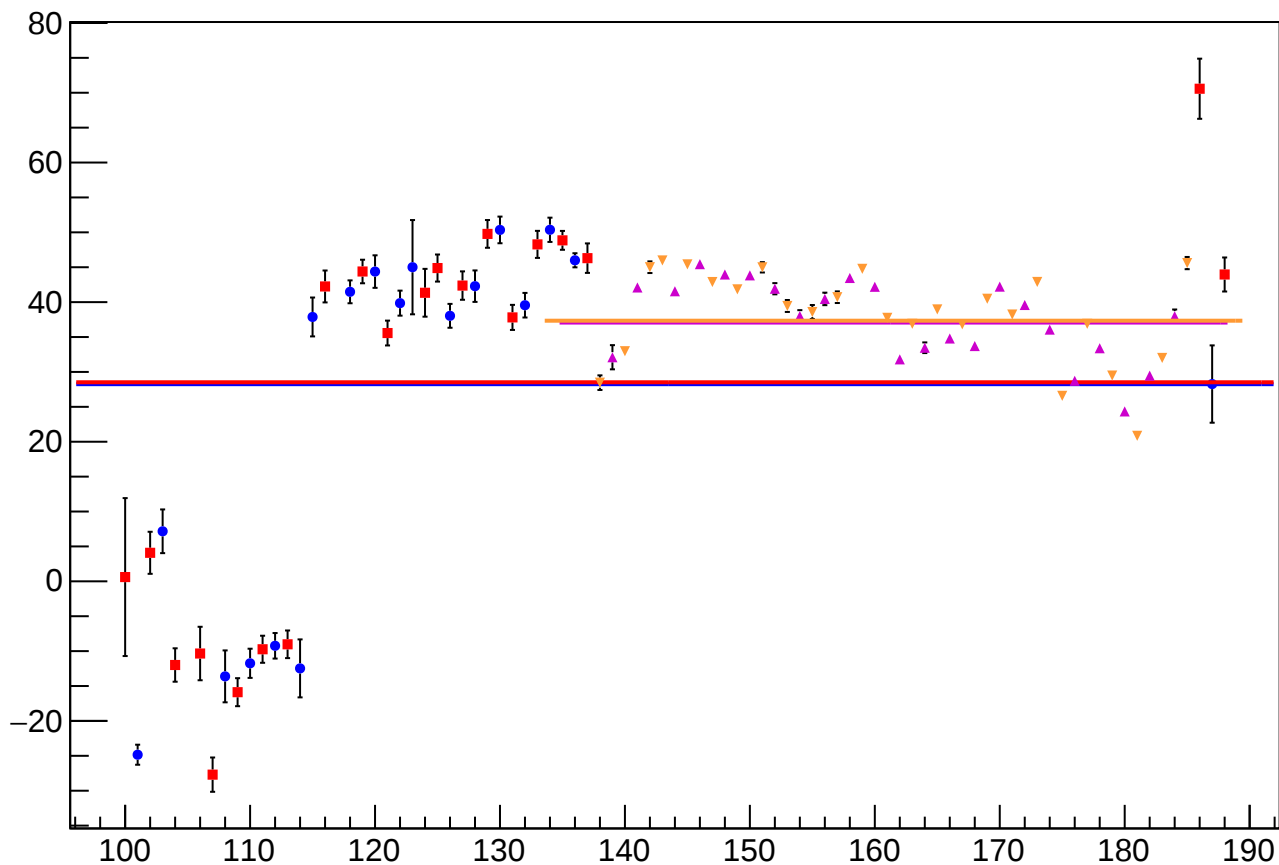
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.595 ± 0.693 χ^2/NDF : 568.3/17
 Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24
 Right Out: -81.629 ± 0.560 χ^2/NDF : 2124.1/20
 Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47
 Right: -75.687 ± 0.435 χ^2/NDF : 2977.4/38
 In: -46.347 ± 0.137 χ^2/NDF : 18983.4/40
 Out: -48.339 ± 0.134 χ^2/NDF : 26009.8/45
 All: -47.365 ± 0.096 χ^2/NDF : 45101.4/86

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.247 $\pm$ 0.459 χ^2 /NDF: 3310.9/17

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.519 $\pm$ 0.468 χ^2 /NDF: 3172.4/20

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

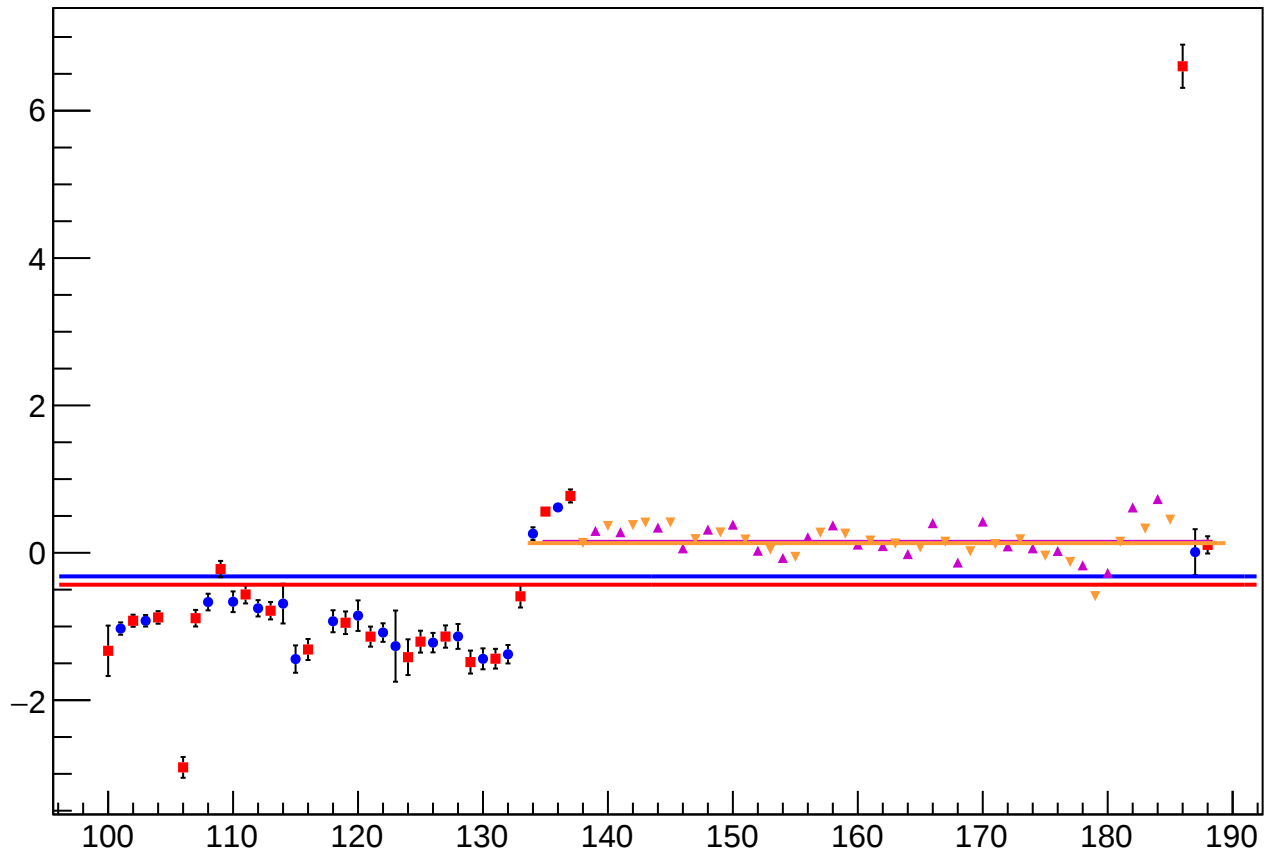
Right: 28.380 $\pm$ 0.328 χ^2 /NDF: 6483.4/38

In: 36.463 $\pm$ 0.121 χ^2 /NDF:6052.0/40

Out: 36.771 $\pm$ 0.119 χ^2 /NDF:6654.1/45

All: 36.620 $\pm$ 0.085 χ^2 /NDF: 12709.4/86

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.320 ± 0.025 χ^2/NDF : 1011.2/17

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.433 ± 0.025 χ^2/NDF : 1766.1/20

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

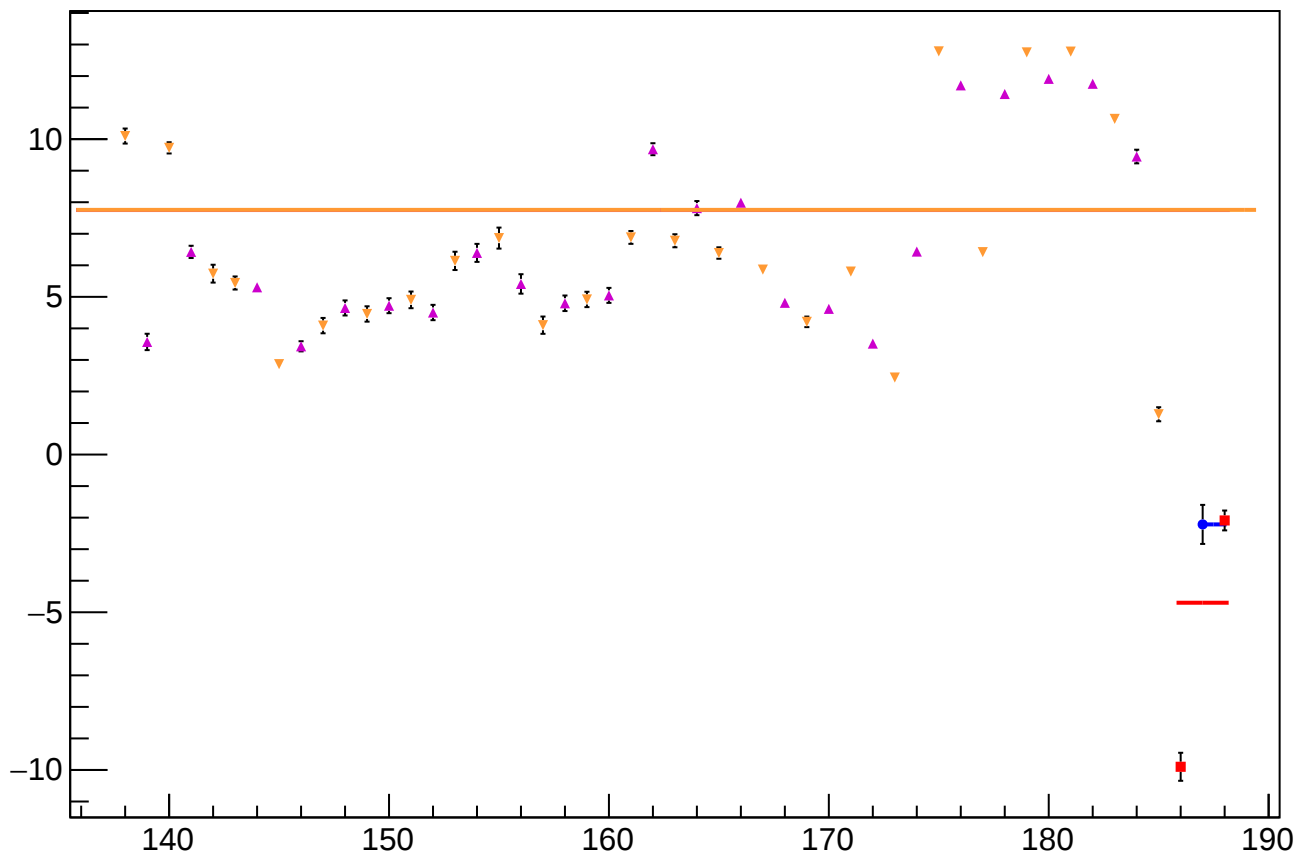
Right: -0.376 ± 0.018 χ^2/NDF : 2787.5/38

In: 0.125 ± 0.006 χ^2/NDF : 3151.8/40

Out: 0.104 ± 0.005 χ^2/NDF : 3674.0/45

All: 0.114 ± 0.004 χ^2/NDF : 6832.9/86

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.215 ± 0.619 χ^2/NDF : 0.0/0

Left Out: 7.757 ± 0.034 χ^2/NDF : 11728.6/24

Right Out: -4.698 ± 0.257 χ^2/NDF : 205.8/1

Left In: 7.753 ± 0.035 χ^2/NDF : 8345.2/22

Left: 7.755 ± 0.025 χ^2/NDF : 20073.8/47

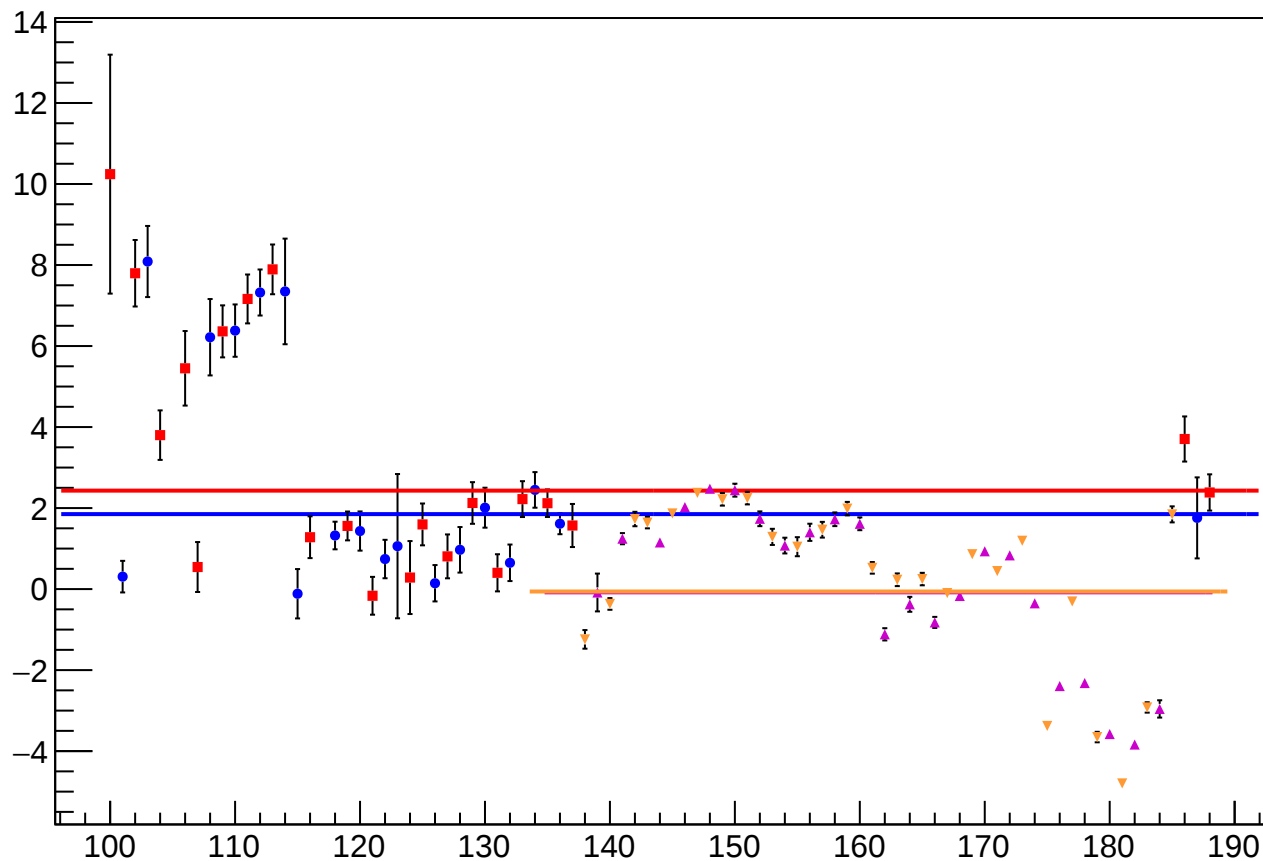
Right: -4.333 ± 0.237 χ^2/NDF : 219.6/2

In: 7.721 ± 0.035 χ^2/NDF : 8603.7/23

Out: 7.538 ± 0.034 χ^2/NDF : 14246.4/26

All: 7.627 ± 0.024 χ^2/NDF : 22864.1/50

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.851 ± 0.117 $\chi^2/\text{NDF}: 293.3/17$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.431 ± 0.116 $\chi^2/\text{NDF}: 341.0/20$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

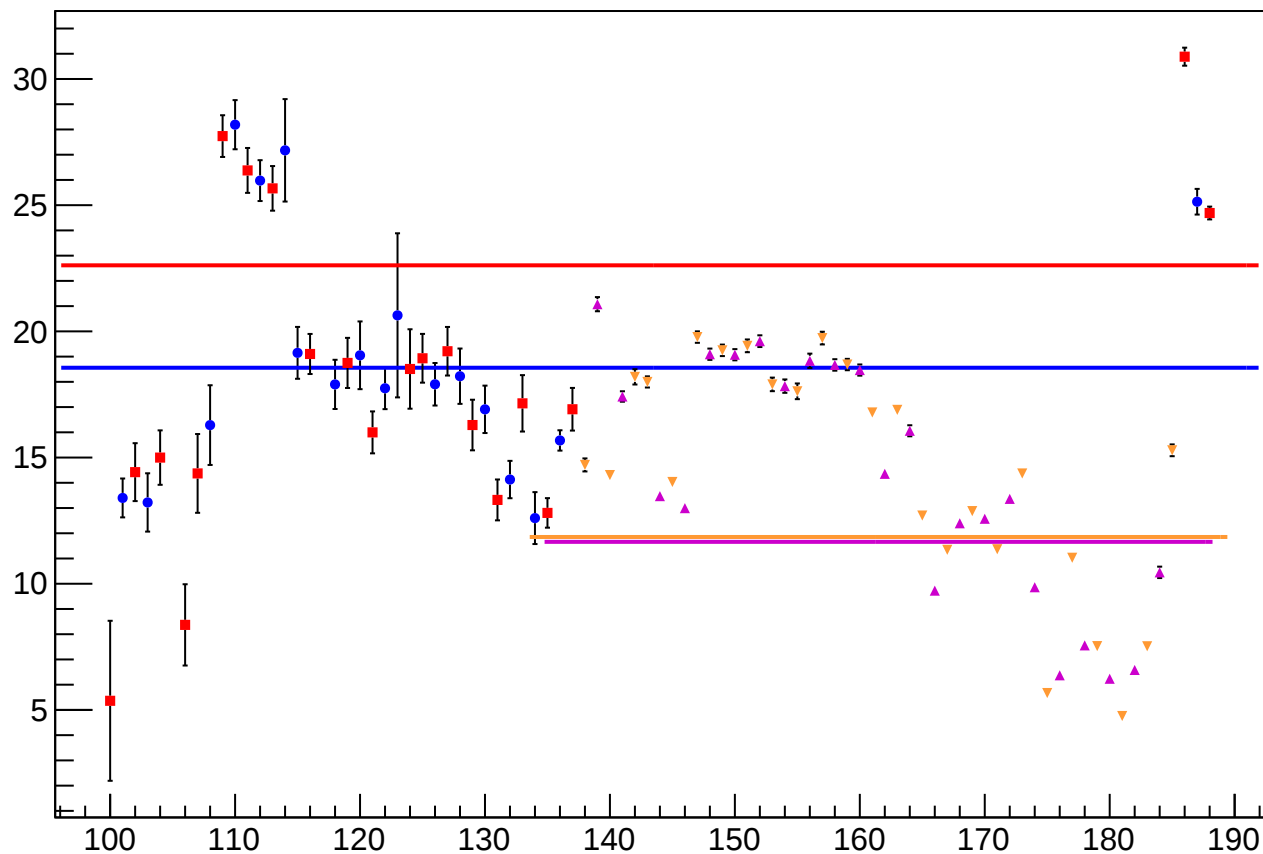
Right: 2.142 ± 0.082 $\chi^2/\text{NDF}: 646.7/38$

In: 0.027 ± 0.027 $\chi^2/\text{NDF}: 5532.2/40$

Out: 0.076 ± 0.027 $\chi^2/\text{NDF}: 6847.1/45$

All: 0.052 ± 0.019 $\chi^2/\text{NDF}: 12381.0/86$

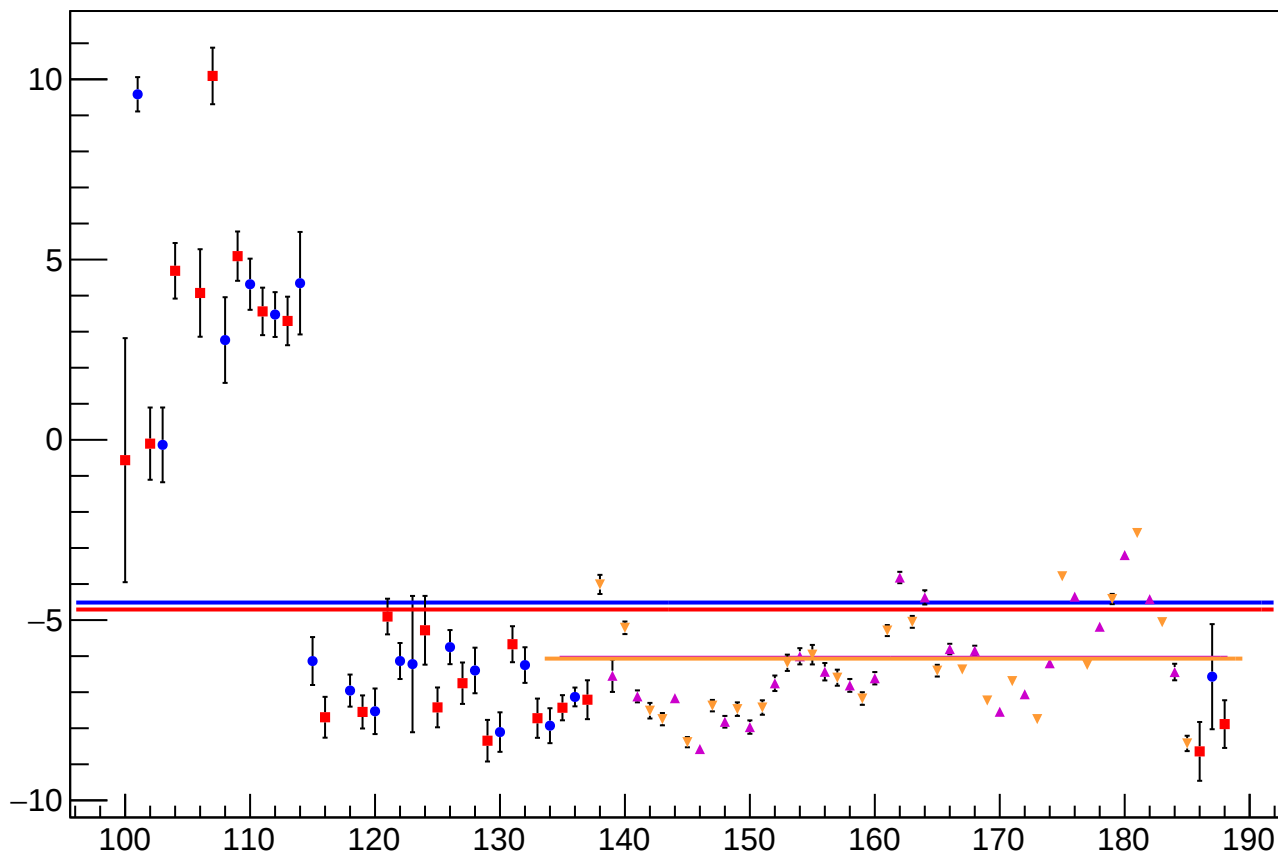
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.559 $\pm$ 0.196 χ^2 /NDF: 561.8/17
 Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24
 Right Out: 22.617 $\pm$ 0.151 χ^2 /NDF: 1561.9/20
 Left In: 11.660 $\pm$ 0.035 χ^2 /NDF:16710.2/22

Left: 11.758 $\pm$ 0.025 χ^2 /NDF: 35874.9/47
 Right: 21.115 $\pm$ 0.119 χ^2 /NDF: 2392.6/38
 In: 11.875 $\pm$ 0.035 χ^2 /NDF:18467.9/40
 Out: 12.395 $\pm$ 0.034 χ^2 /NDF:25566.8/45
 All: 12.141 $\pm$ 0.024 χ^2 /NDF: 44150.5/86

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.513 ± 0.130 χ^2/NDF : 1584.8/17

Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24

Right Out: -4.707 ± 0.133 χ^2/NDF : 1390.1/20

Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47

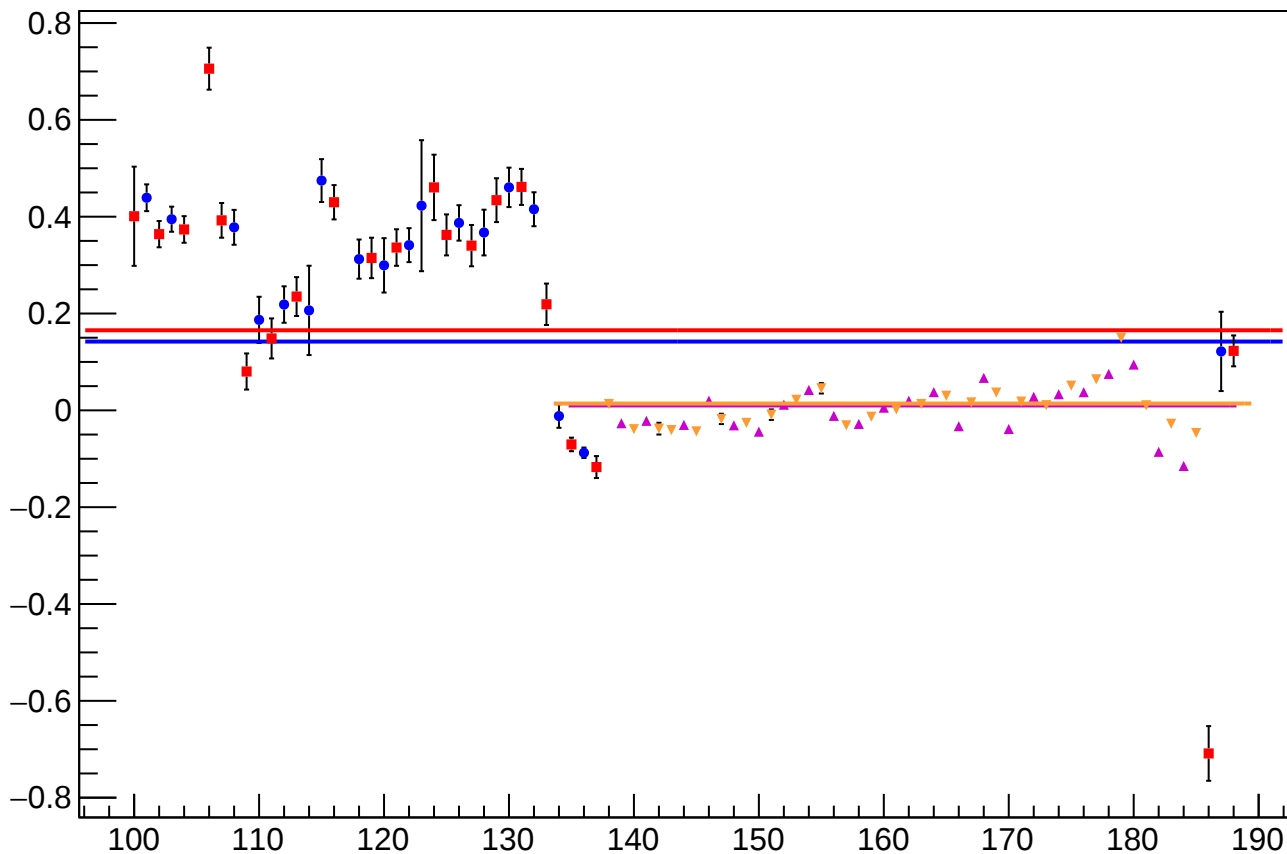
Right: -4.608 ± 0.093 χ^2/NDF : 2976.1/38

In: -5.959 ± 0.031 χ^2/NDF : 4009.5/40

Out: -5.997 ± 0.030 χ^2/NDF : 4161.9/45

All: -5.978 ± 0.022 χ^2/NDF : 8172.1/86

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.142 $\pm$ 0.007 χ^2 /NDF: 1057.8/17

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.165 $\pm$ 0.007 χ^2 /NDF: 1245.9/20

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

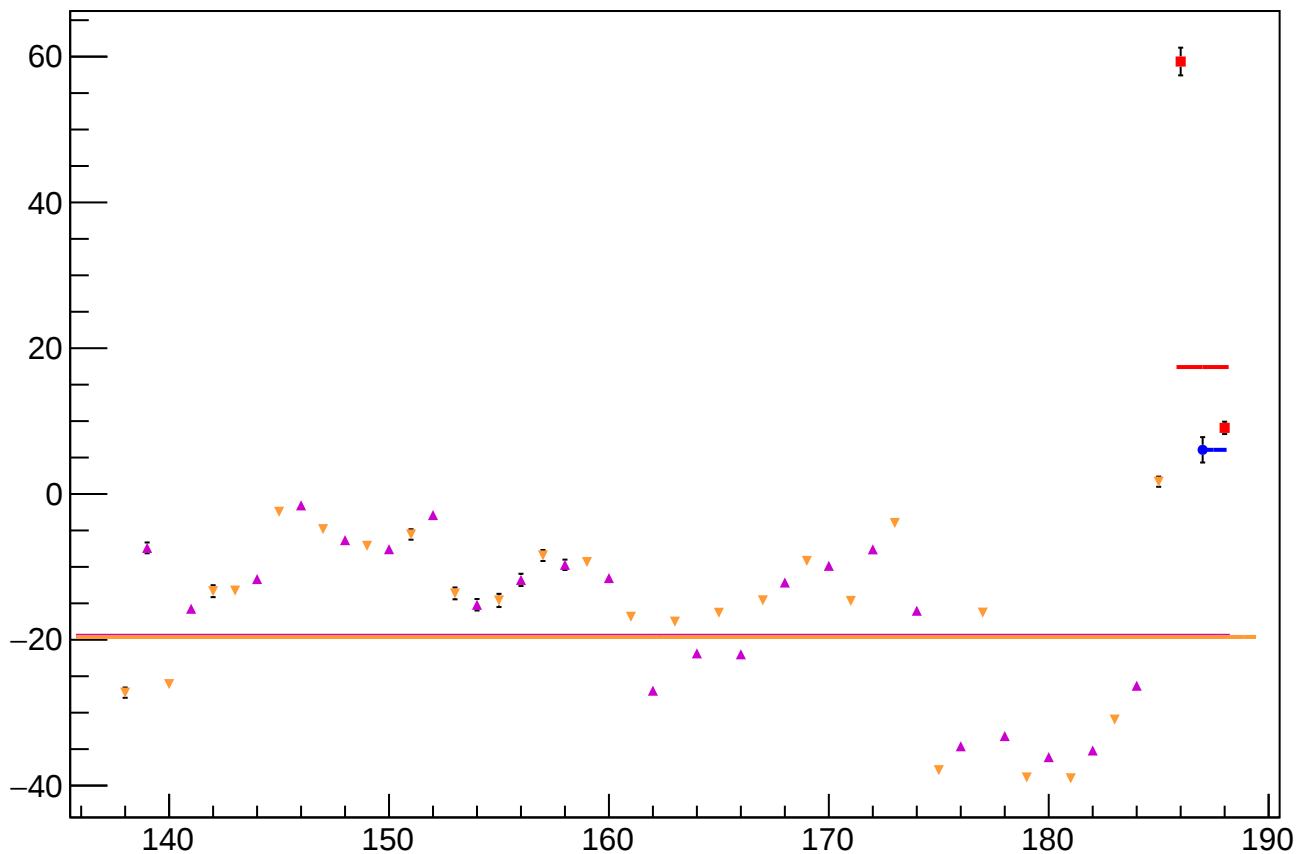
Right: 0.154 $\pm$ 0.005 χ^2 /NDF: 2309.0/38

In: 0.015 $\pm$ 0.001 χ^2 /NDF: 2610.3/40

Out: 0.020 $\pm$ 0.001 χ^2 /NDF: 2631.2/45

All: 0.018 $\pm$ 0.001 χ^2 /NDF: 5246.3/86

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.059+/-1.741 χ^2/NDF : 0.0/0

Left Out: -19.612+/-0.103 χ^2/NDF :15761.3/24

Right Out: 17.417+/-0.774 χ^2/NDF : 583.1/1

Left In: -19.450+/-0.105 χ^2/NDF :12283.1/22

Left: -19.533+/-0.074 χ^2/NDF : 28045.6/47

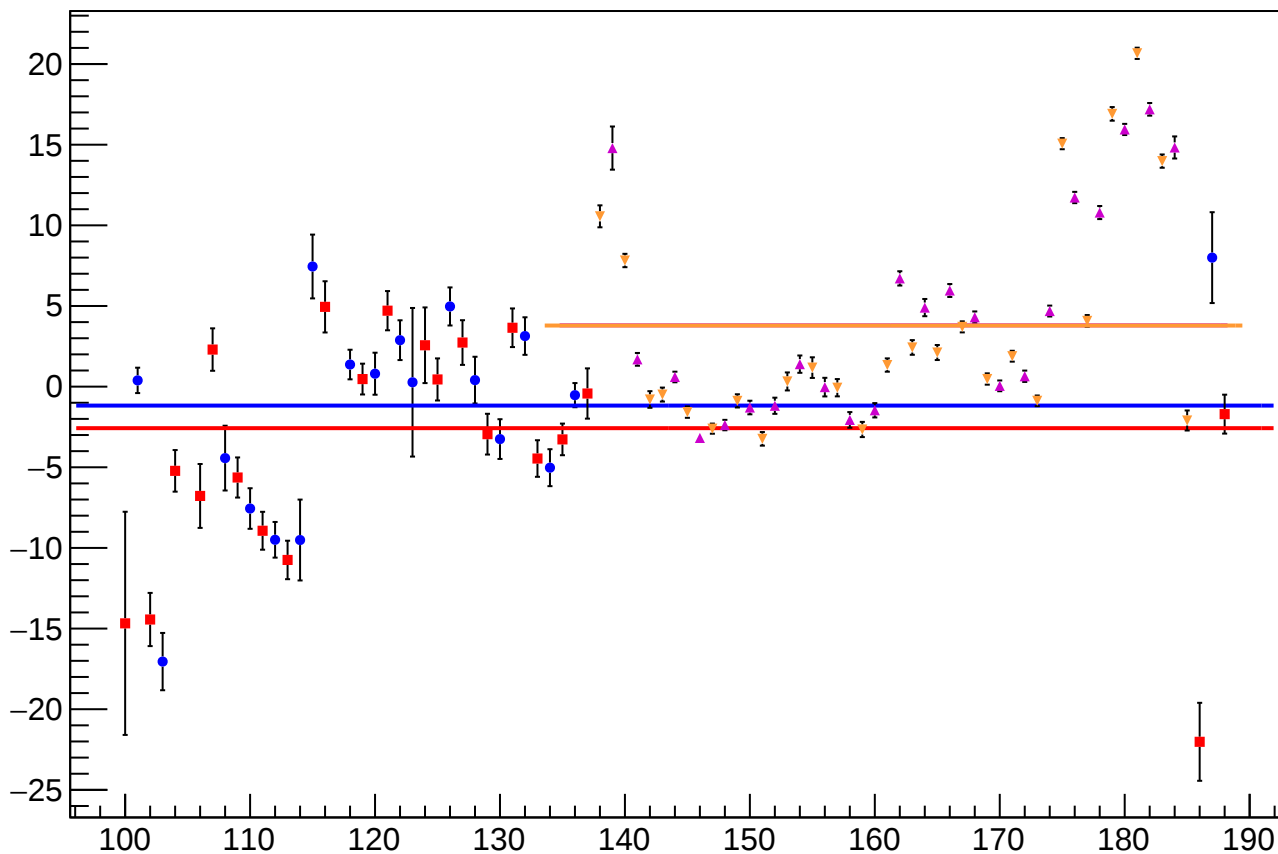
Right: 15.542+/-0.708 χ^2/NDF : 618.6/2

In: -19.358+/-0.105 χ^2/NDF :12496.9/23

Out: -18.966+/-0.102 χ^2/NDF :18590.7/26

All: -19.157+/-0.073 χ^2/NDF : 31094.8/50

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.175 ± 0.291 χ^2/NDF : 287.3/17

Left Out: 3.788 ± 0.082 χ^2/NDF : 7150.5/24

Right Out: -2.575 ± 0.292 χ^2/NDF : 350.3/20

Left In: 3.799 ± 0.084 χ^2/NDF : 5517.0/22

Left: 3.793 ± 0.059 χ^2/NDF : 12667.5/47

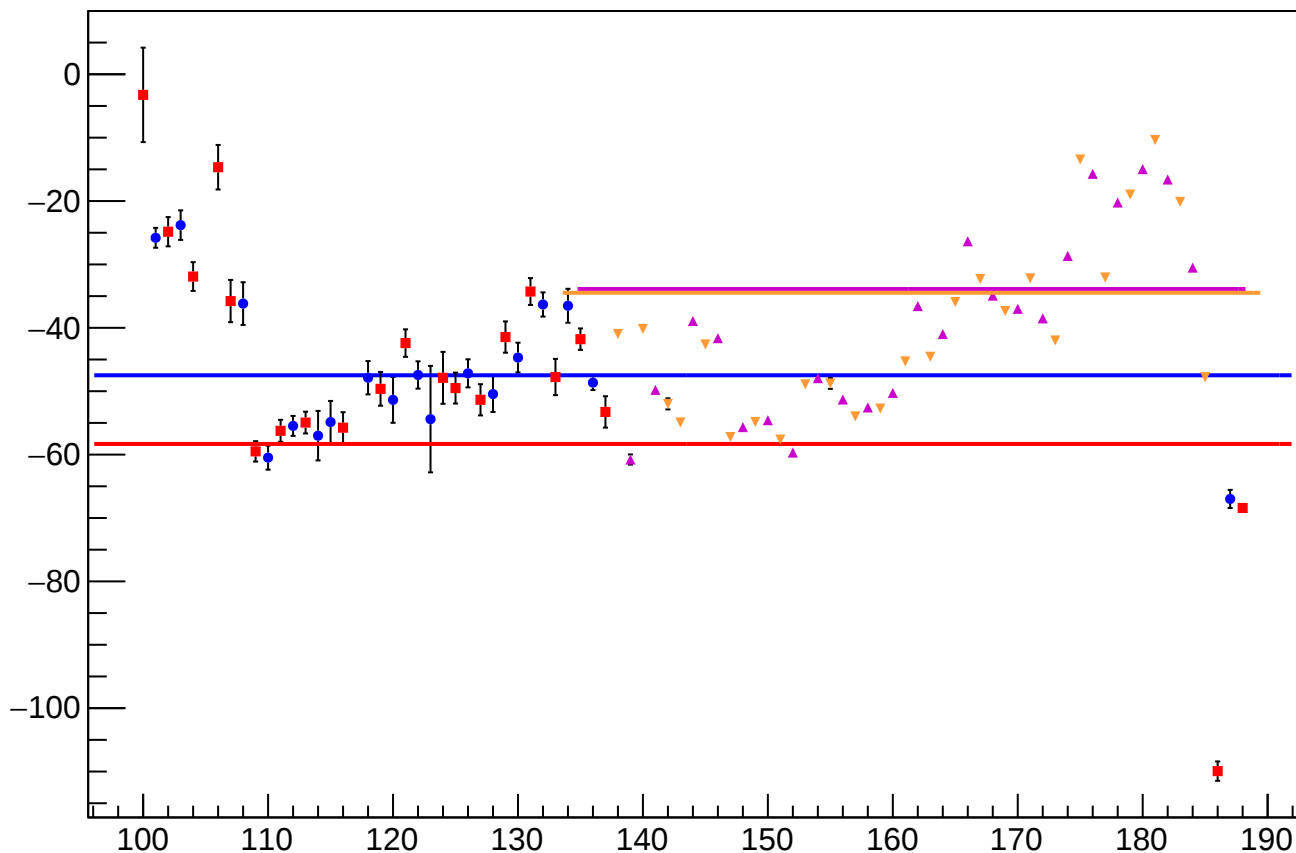
Right: -1.874 ± 0.206 χ^2/NDF : 649.1/38

In: 3.420 ± 0.080 χ^2/NDF : 6073.7/40

Out: 3.321 ± 0.079 χ^2/NDF : 7942.3/45

All: 3.370 ± 0.056 χ^2/NDF : 14016.8/86

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -47.485 ± 0.493 χ^2/NDF : 631.0/17
 Left Out: -34.471 ± 0.104 χ^2/NDF : 20196.3/24
 Right Out: -58.318 ± 0.404 χ^2/NDF : 2348.3/20
 Left In: -33.875 ± 0.105 χ^2/NDF : 17638.7/22

Left: -34.177 ± 0.074 χ^2/NDF : 37851.2/47

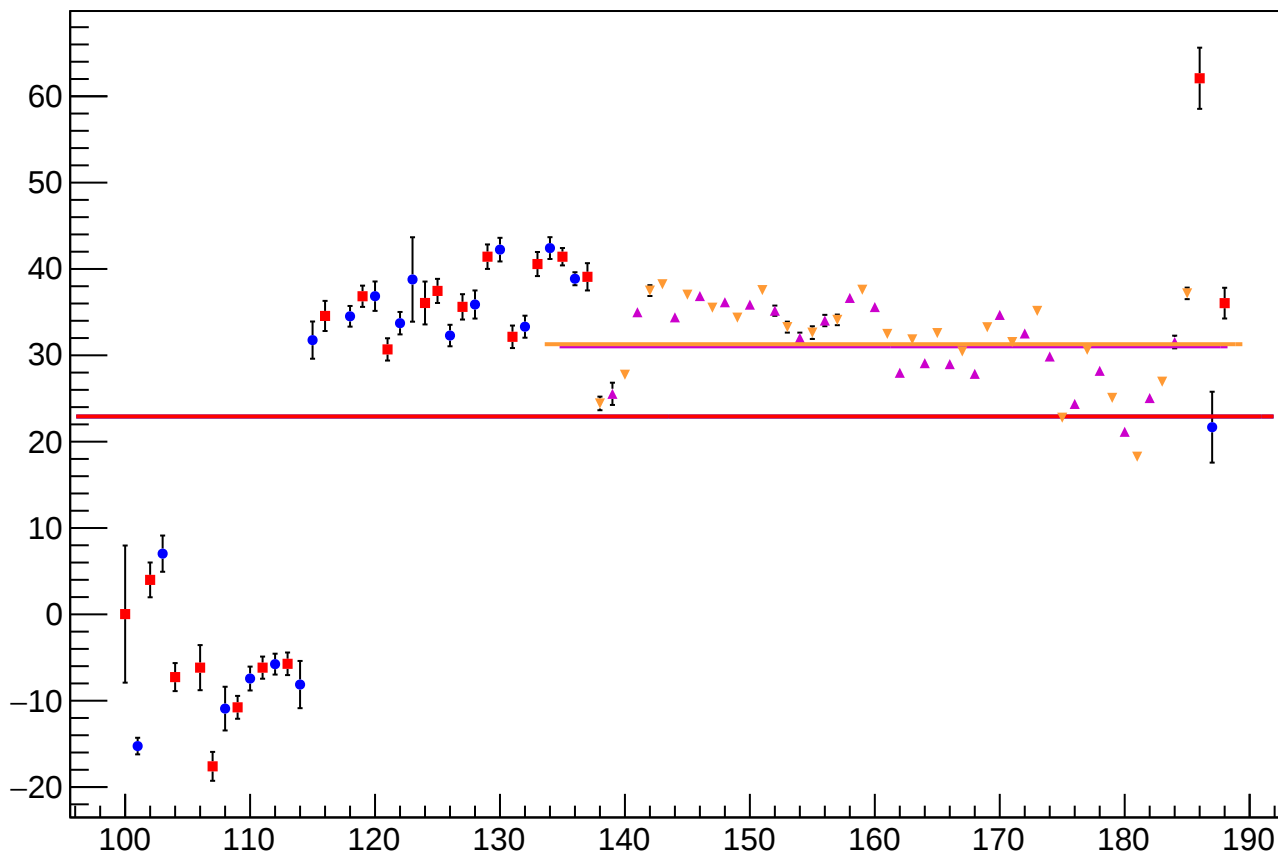
Right: -53.968 ± 0.312 χ^2/NDF : 3268.1/38

In: -34.468 ± 0.103 χ^2/NDF : 18998.5/40

Out: -35.953 ± 0.101 χ^2/NDF : 25814.4/45

All: -35.227 ± 0.072 χ^2/NDF : 44919.0/86

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.909 $\pm$ 0.328 χ^2 /NDF: 4317.3/17

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.920 $\pm$ 0.333 χ^2 /NDF: 4212.6/20

Left In: 31.039 $\pm$ 0.094 χ^2 /NDF:2480.0/22

Left: 31.165 $\pm$ 0.066 χ^2 /NDF: 5829.2/47

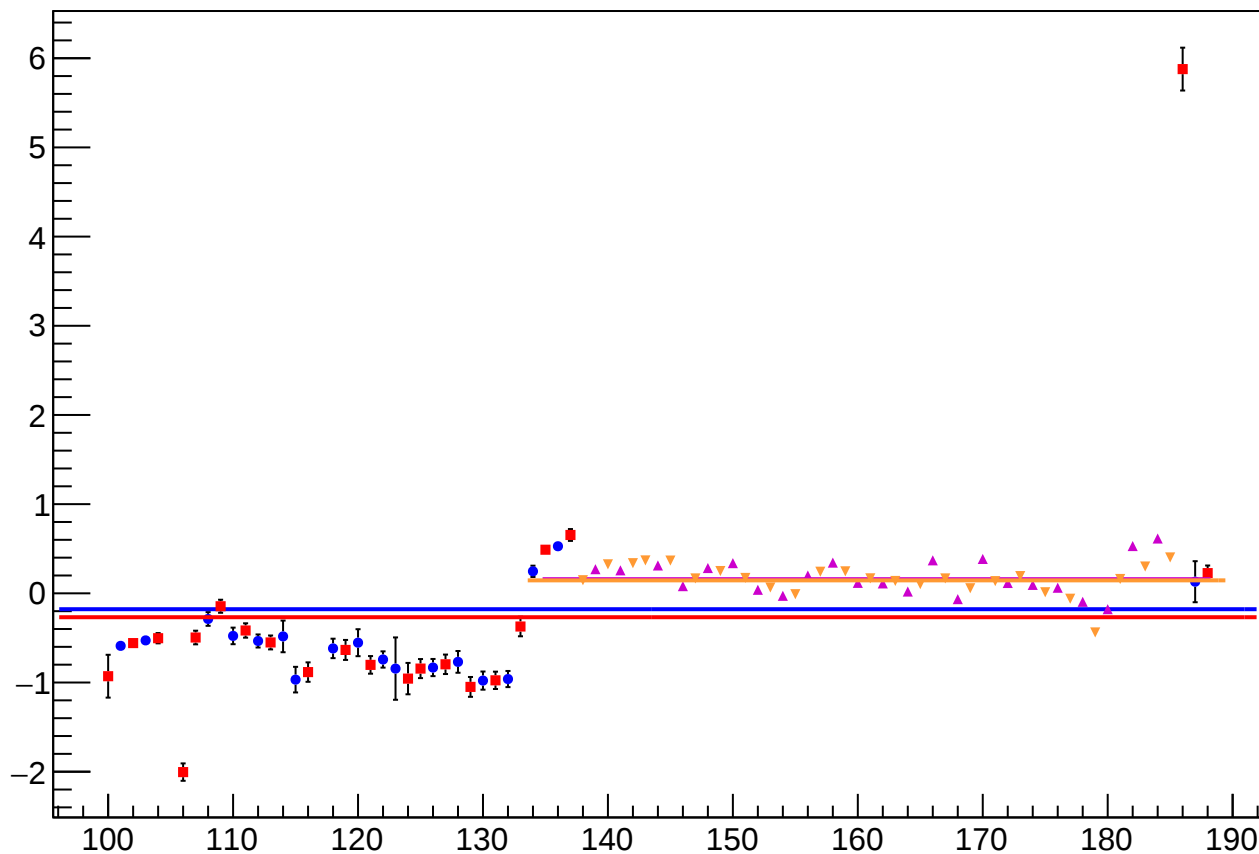
Right: 22.915 $\pm$ 0.234 χ^2 /NDF: 8529.9/38

In: 30.418 $\pm$ 0.090 χ^2 /NDF:7366.1/40

Out: 30.688 $\pm$ 0.089 χ^2 /NDF:8144.3/45

All: 30.556 $\pm$ 0.063 χ^2 /NDF: 15515.0/86

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.178 ± 0.018 χ^2/NDF : 997.0/17

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.268 ± 0.018 χ^2/NDF : 1872.1/20

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

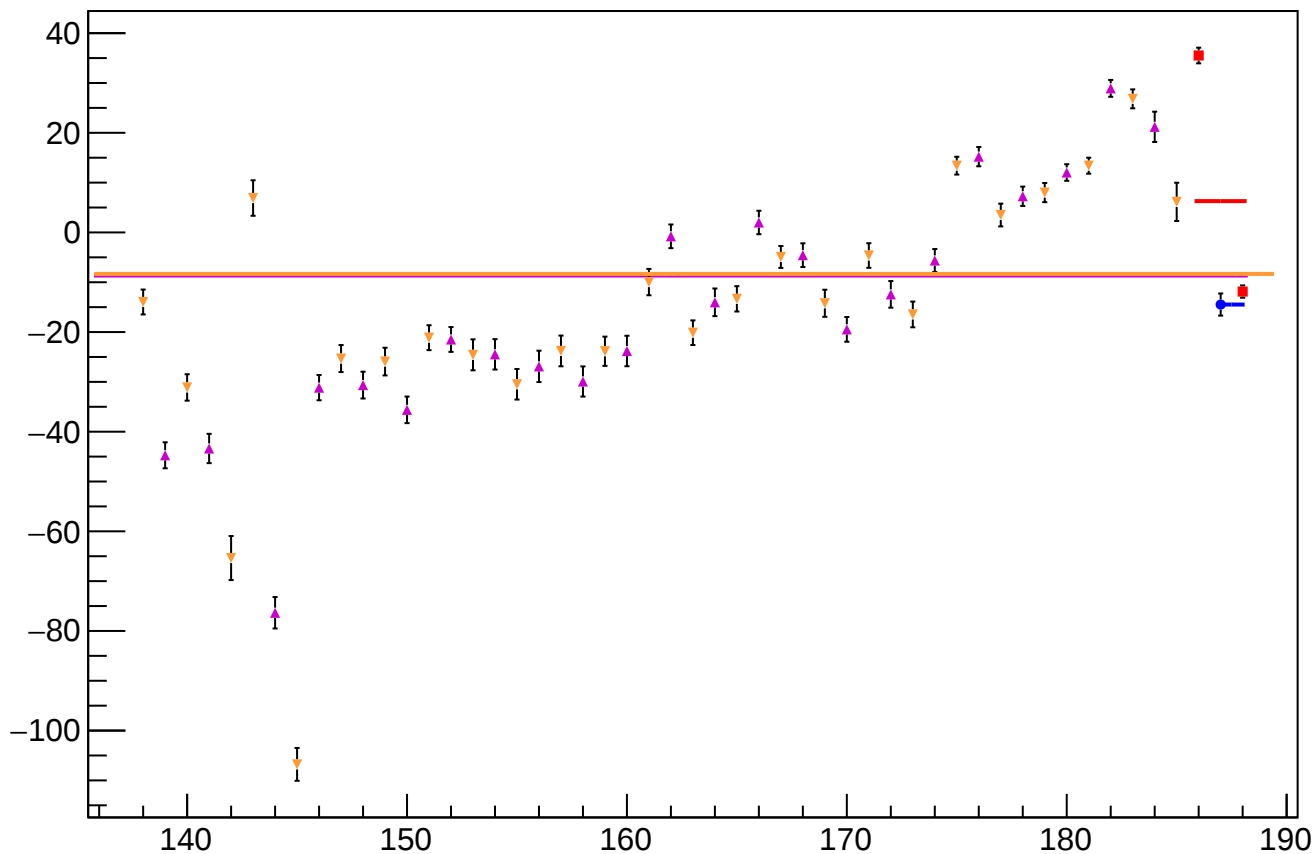
Right: -0.223 ± 0.013 χ^2/NDF : 2881.9/38

In: 0.140 ± 0.004 χ^2/NDF : 3347.6/40

Out: 0.123 ± 0.004 χ^2/NDF : 3963.8/45

All: 0.131 ± 0.003 χ^2/NDF : 7319.6/86

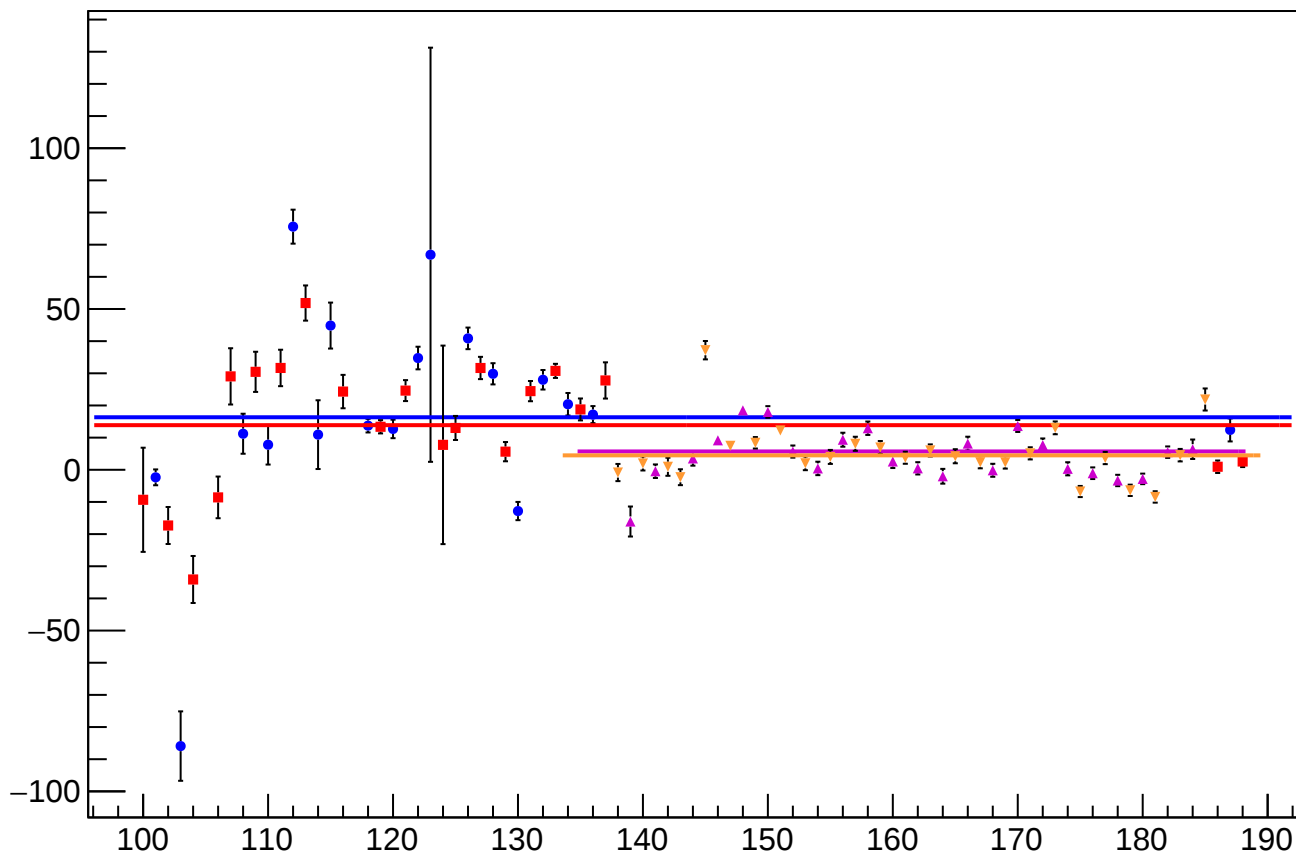
reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.478 ± 2.220 χ^2/NDF : 0.0/0
 Left Out: -8.332 ± 0.500 χ^2/NDF : 2226.2/24
 Right Out: 6.290 ± 0.973 χ^2/NDF : 560.9/1
 Left In: -8.652 ± 0.507 χ^2/NDF : 2223.8/22

Left: -8.490 ± 0.356 χ^2/NDF : 4450.2/47
 Right: 2.944 ± 0.891 χ^2/NDF : 634.4/2
 In: -8.941 ± 0.494 χ^2/NDF : 2230.4/23
 Out: -5.280 ± 0.444 χ^2/NDF : 2965.9/26
 All: -6.916 ± 0.331 χ^2/NDF : 5226.6/50

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.332 ± 0.836 $\chi^2/\text{NDF}: 516.2/17$

Left Out: 4.484 ± 0.392 $\chi^2/\text{NDF}: 371.9/24$

Right Out: 13.875 ± 0.737 $\chi^2/\text{NDF}: 369.4/20$

Left In: 5.705 ± 0.404 $\chi^2/\text{NDF}: 324.1/22$

Left: 5.076 ± 0.281 $\chi^2/\text{NDF}: 700.6/47$

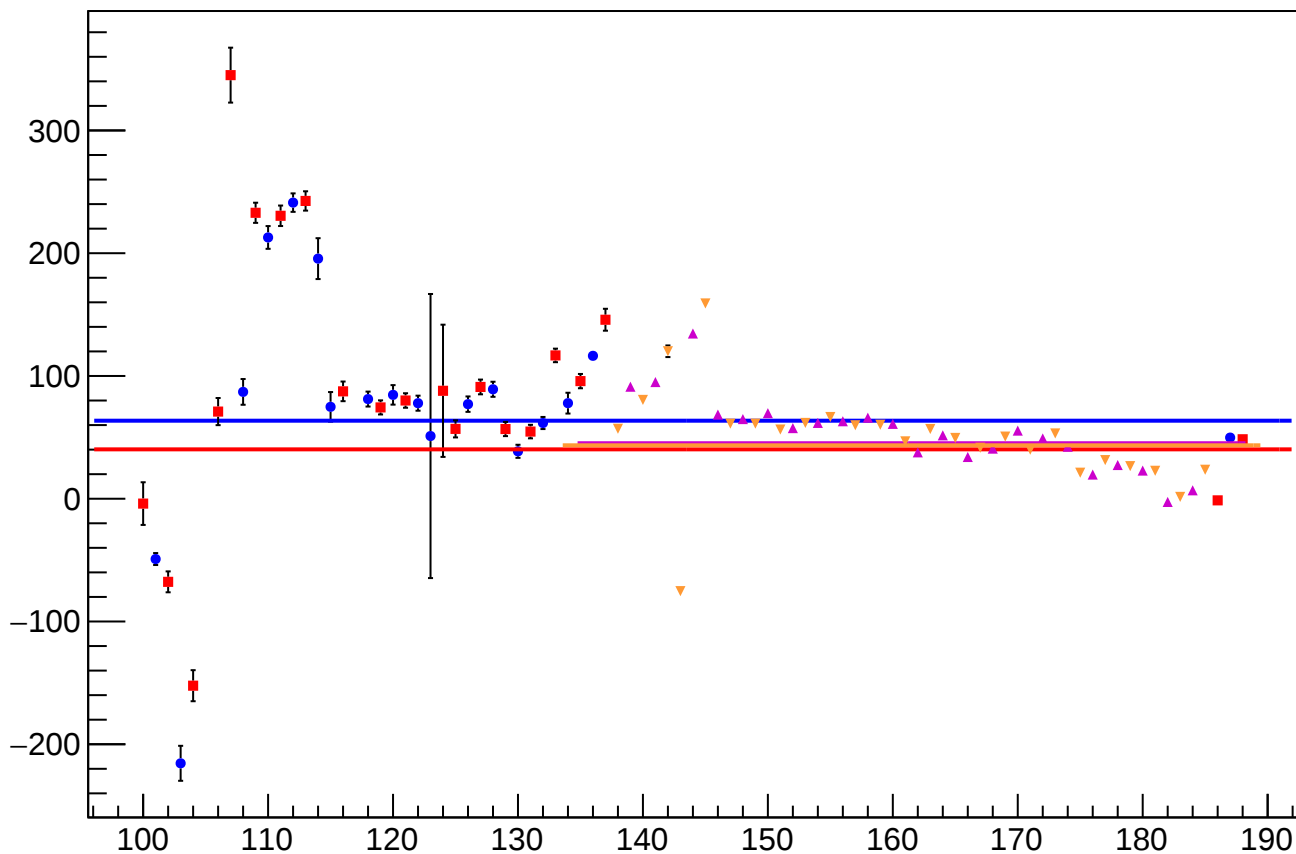
Right: 14.950 ± 0.553 $\chi^2/\text{NDF}: 890.4/38$

In: 7.718 ± 0.364 $\chi^2/\text{NDF}: 971.2/40$

Out: 6.555 ± 0.346 $\chi^2/\text{NDF}: 867.7/45$

All: 7.107 ± 0.251 $\chi^2/\text{NDF}: 1844.2/86$

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 63.564 $\pm$ 1.223 χ^2 /NDF: 2097.7/17

Left Out: 43.524 $\pm$ 0.498 χ^2 /NDF: 3830.7/24

Right Out: 40.223 $\pm$ 0.711 χ^2 /NDF: 4116.0/20

Left In: 45.211 $\pm$ 0.504 χ^2 /NDF: 3048.5/22

Left: 44.358 $\pm$ 0.354 χ^2 /NDF: 6884.8/47

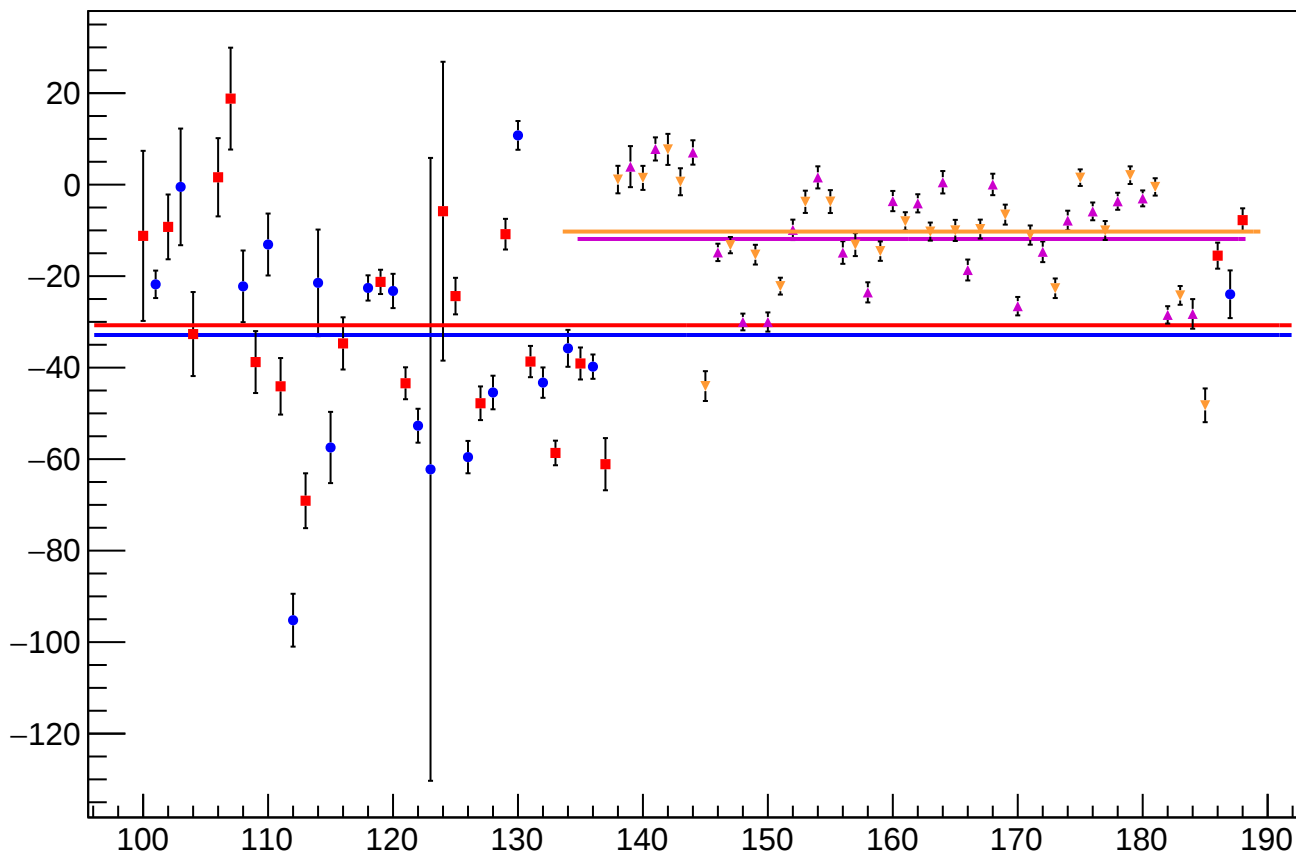
Right: 46.115 $\pm$ 0.615 χ^2 /NDF: 6485.9/38

In: 47.878 $\pm$ 0.466 χ^2 /NDF: 5338.6/40

Out: 42.436 $\pm$ 0.408 χ^2 /NDF: 7961.2/45

All: 44.797 $\pm$ 0.307 χ^2 /NDF: 13376.9/86

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -32.865 $\pm$ 0.967 χ^2/NDF : 488.4/17

Left Out: -10.257 $\pm$ 0.444 χ^2/NDF : 552.4/24

Right Out: -30.735 $\pm$ 0.904 χ^2/NDF : 432.7/20

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

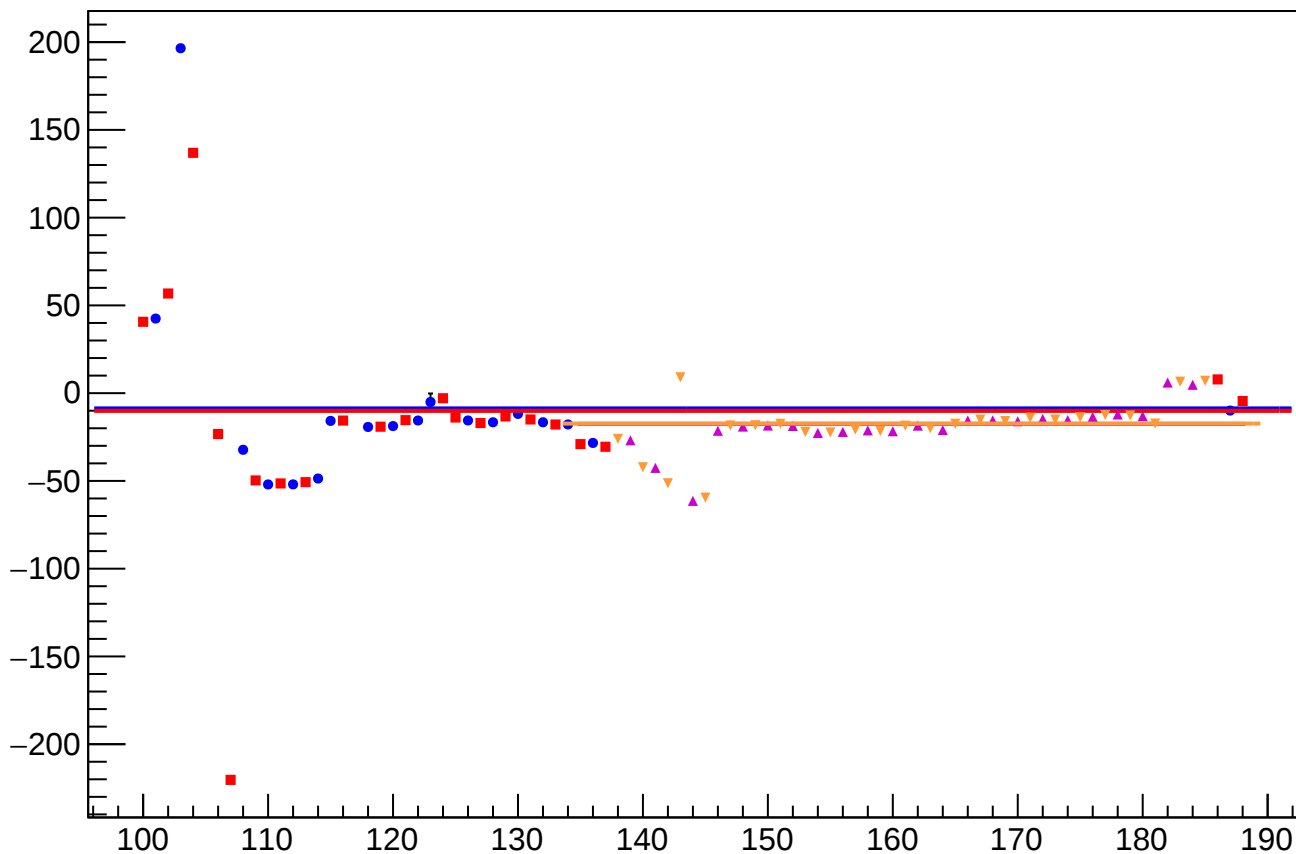
Right: -31.729 $\pm$ 0.660 χ^2/NDF : 923.7/38

In: -15.698 $\pm$ 0.412 χ^2/NDF : 1540.3/40

Out: -14.239 $\pm$ 0.399 χ^2/NDF : 1398.3/45

All: -14.944 $\pm$ 0.287 χ^2/NDF : 2945.1/86

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -8.680+/-0.058 χ^2/NDF : 575578.2/17

Left Out: -17.333+/-0.020 χ^2/NDF : 325197.2/24

Right Out: -10.111+/-0.054 χ^2/NDF : 570320.9/20

Left In: -17.491+/-0.021 χ^2/NDF : 259215.8/22

Left: -17.411+/-0.015 χ^2/NDF : 584442.6/47

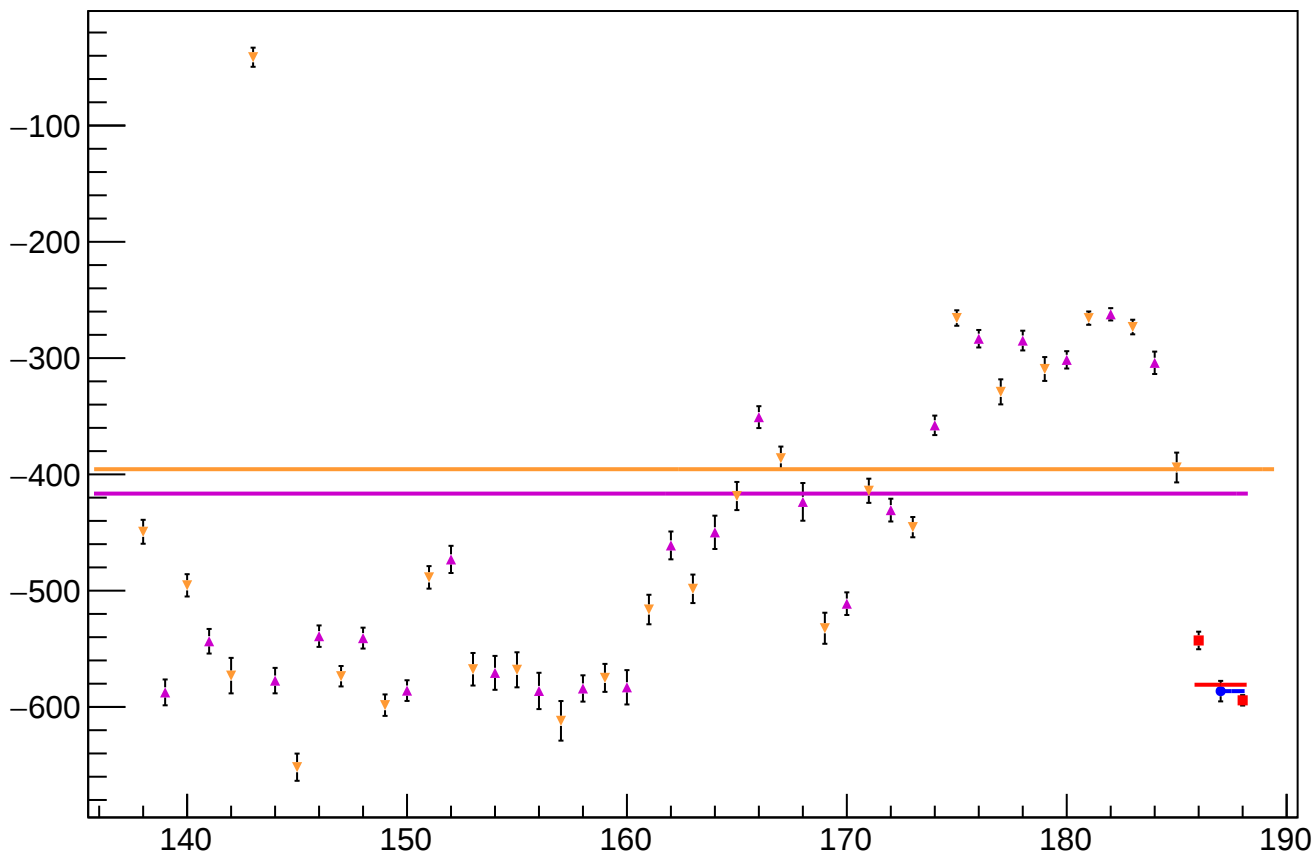
Right: -9.448+/-0.039 χ^2/NDF : 1146225.9/38

In: -16.497+/-0.019 χ^2/NDF : 855277.8/40

Out: -16.428+/-0.019 χ^2/NDF : 911218.1/45

All: -16.462+/-0.014 χ^2/NDF : 1766502.3/86

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



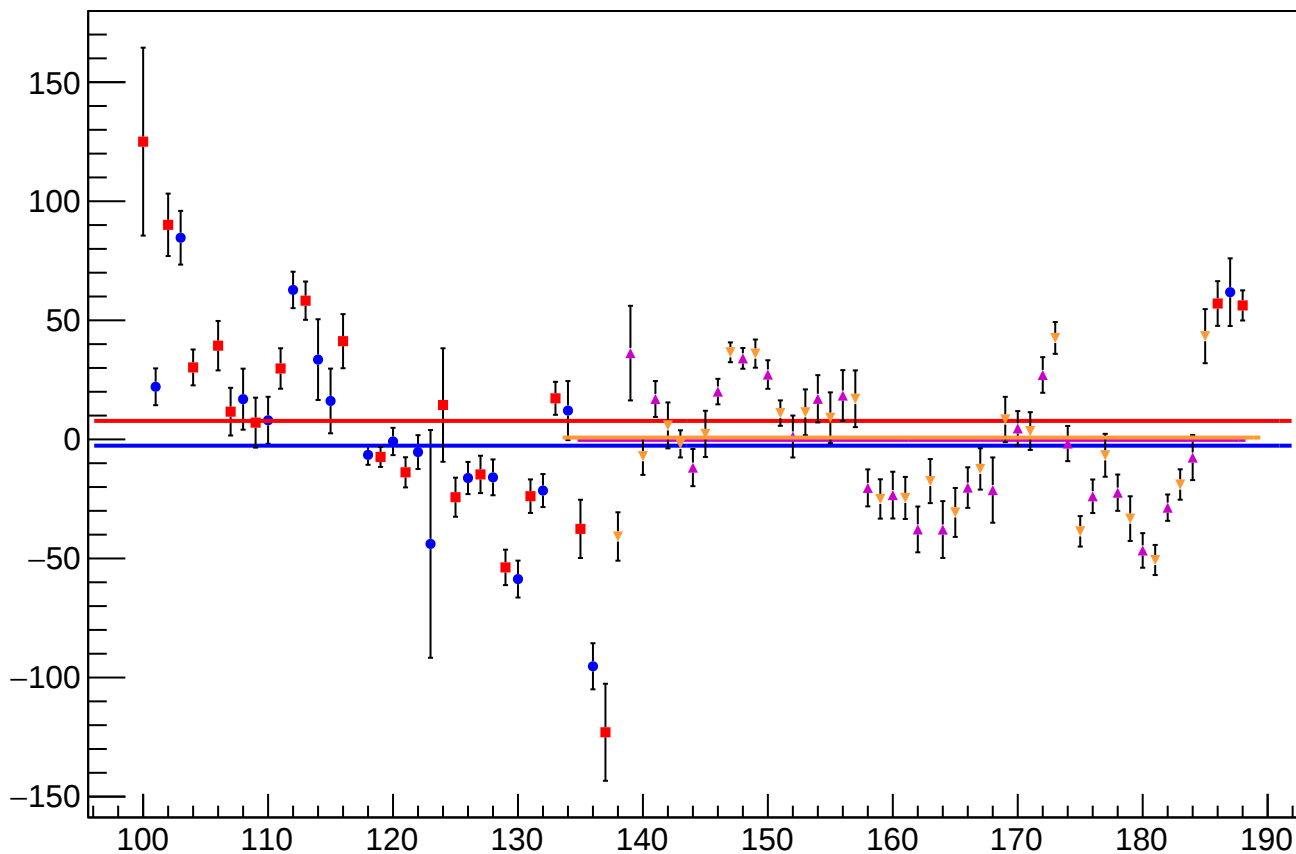
Right In: -586.400+/-8.817 χ^2/NDF : 0.0/0
 Left Out: -395.547+/-1.953 χ^2/NDF : 5946.5/24
 Right Out: -580.890+/-3.856 χ^2/NDF : 34.3/1
 Left In: -416.521+/-2.005 χ^2/NDF : 3917.0/22

Left: -405.762+/-1.399 χ^2/NDF : 9919.7/47
 Right: -581.775+/-3.533 χ^2/NDF : 34.7/2

In: -424.873+/-1.955 χ^2/NDF : 4270.0/23
 Out: -433.394+/-1.743 χ^2/NDF : 7819.1/26

All: -429.621+/-1.301 χ^2/NDF : 12099.7/50

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.637 ± 1.909 χ^2/NDF : 335.3/17

Left Out: 0.767 ± 1.503 χ^2/NDF : 350.1/24

Right Out: 7.762 ± 1.801 χ^2/NDF : 401.2/20

Left In: -0.202 ± 1.575 χ^2/NDF : 260.8/22

Left: 0.305 ± 1.087 χ^2/NDF : 611.1/47

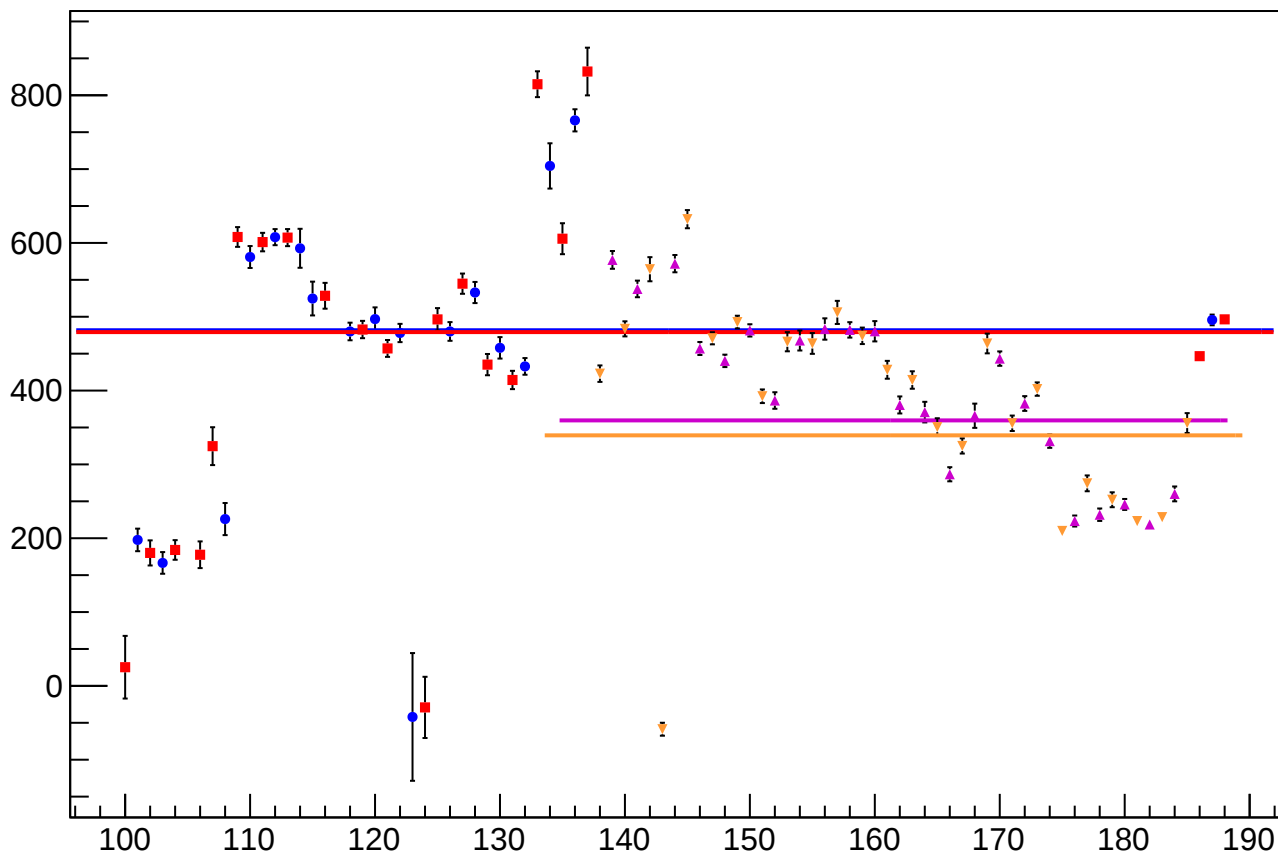
Right: 2.867 ± 1.310 χ^2/NDF : 752.2/38

In: -1.188 ± 1.215 χ^2/NDF : 597.1/40

Out: 3.639 ± 1.154 χ^2/NDF : 760.2/45

All: 1.350 ± 0.837 χ^2/NDF : 1365.5/86

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 481.709 $\pm$ 3.274 χ^2 /NDF: 1632.2/17

Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24

Right Out: 479.214 $\pm$ 2.331 χ^2 /NDF: 2339.9/20

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

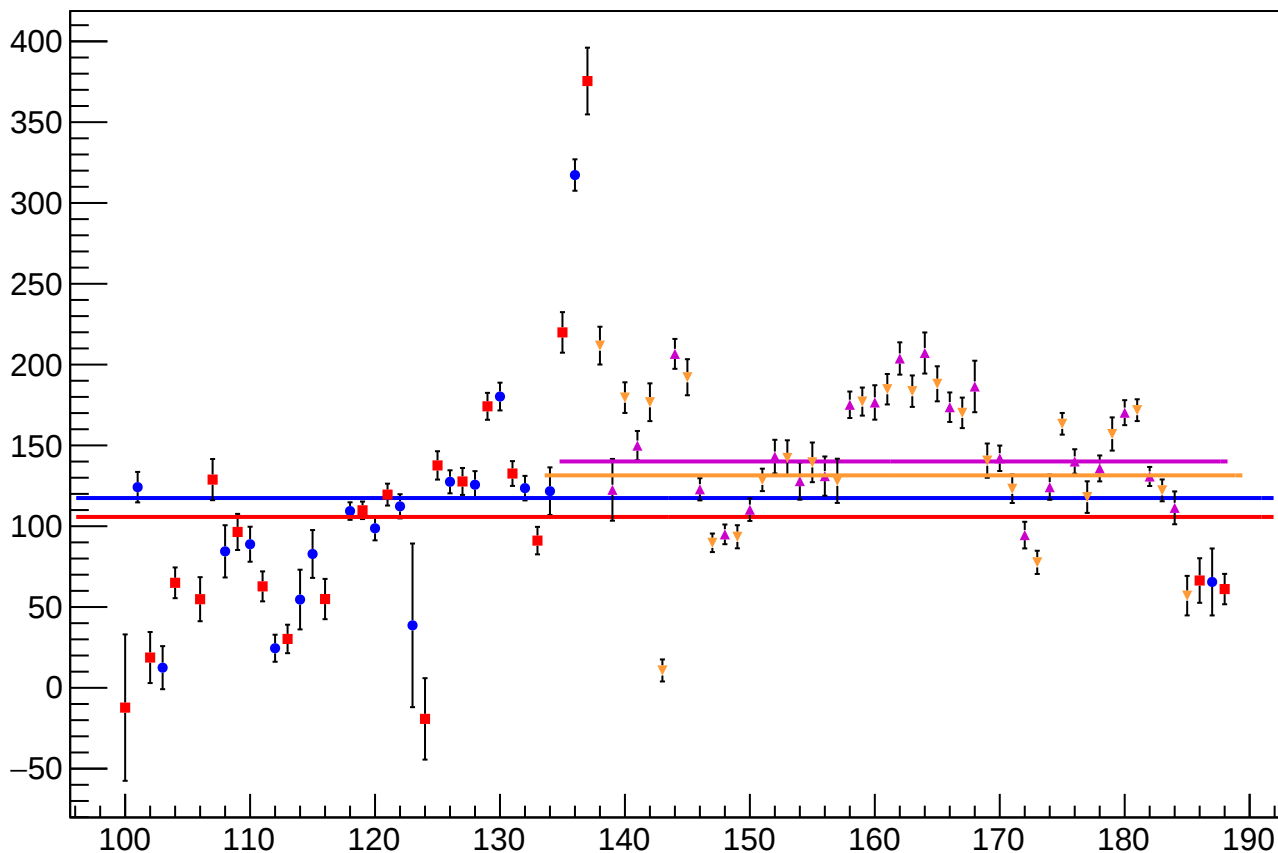
Right: 480.054 $\pm$ 1.899 χ^2 /NDF: 3972.5/38

In: 392.851 $\pm$ 1.708 χ^2 /NDF:6042.8/40

Out: 397.360 $\pm$ 1.501 χ^2 /NDF:9948.5/45

All: 395.395 $\pm$ 1.128 χ^2 /NDF: 15995.2/86

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 117.434 $\pm$ 2.218 χ^2 /NDF: 711.4/17

Left Out: 131.464 $\pm$ 1.728 χ^2 /NDF: 809.3/24

Right Out: 105.736 $\pm$ 2.125 χ^2 /NDF: 601.3/20

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

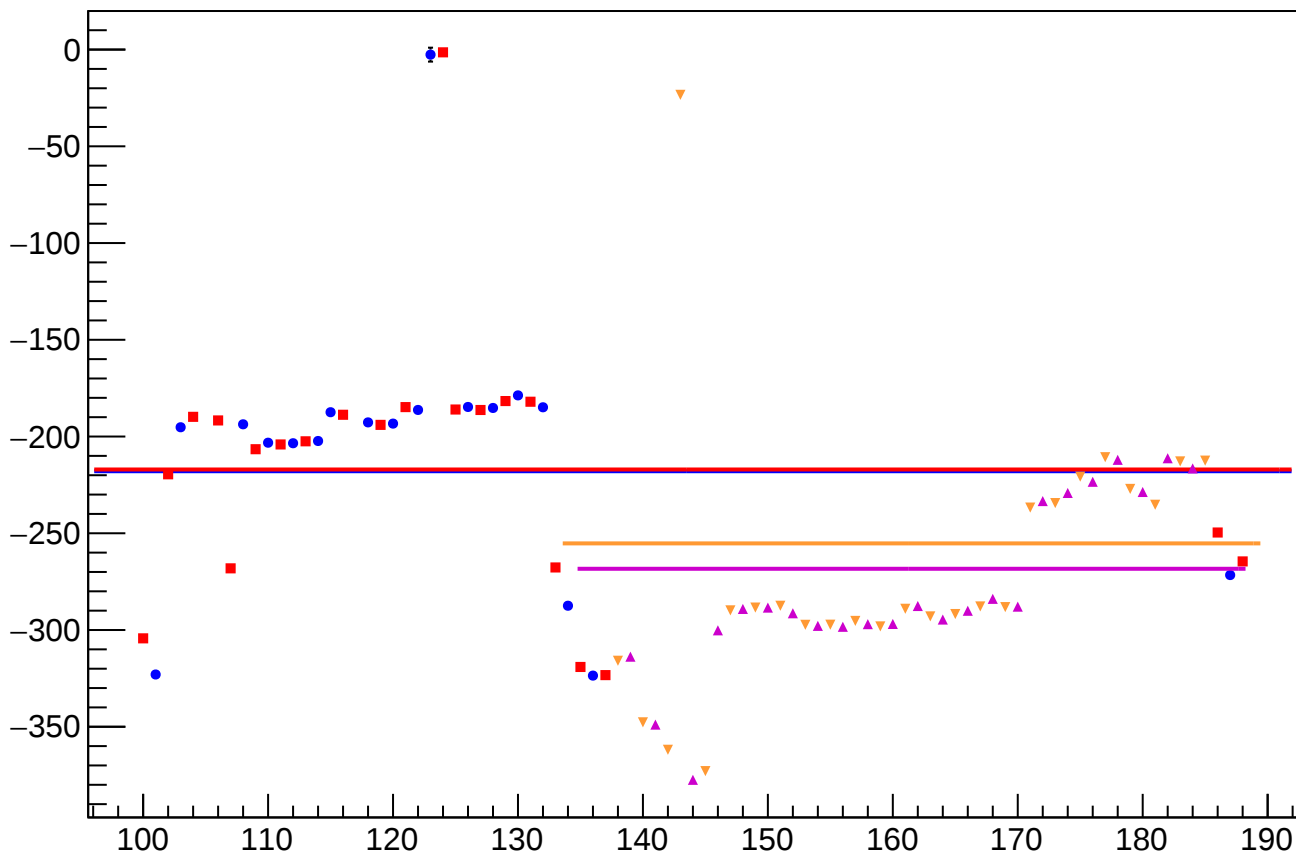
Right: 111.335 $\pm$ 1.534 χ^2 /NDF: 1327.2/38

In: 131.109 $\pm$ 1.395 χ^2 /NDF: 1090.9/40

Out: 121.226 $\pm$ 1.340 χ^2 /NDF: 1498.9/45

All: 125.970 $\pm$ 0.967 χ^2 /NDF: 2615.8/86

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -217.935 ± 0.136 $\chi^2/\text{NDF}: 148585.1/17$

Left Out: -255.232 ± 0.082 $\chi^2/\text{NDF}: 728016.7/24$

Right Out: -217.035 ± 0.125 $\chi^2/\text{NDF}: 127981.7/20$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

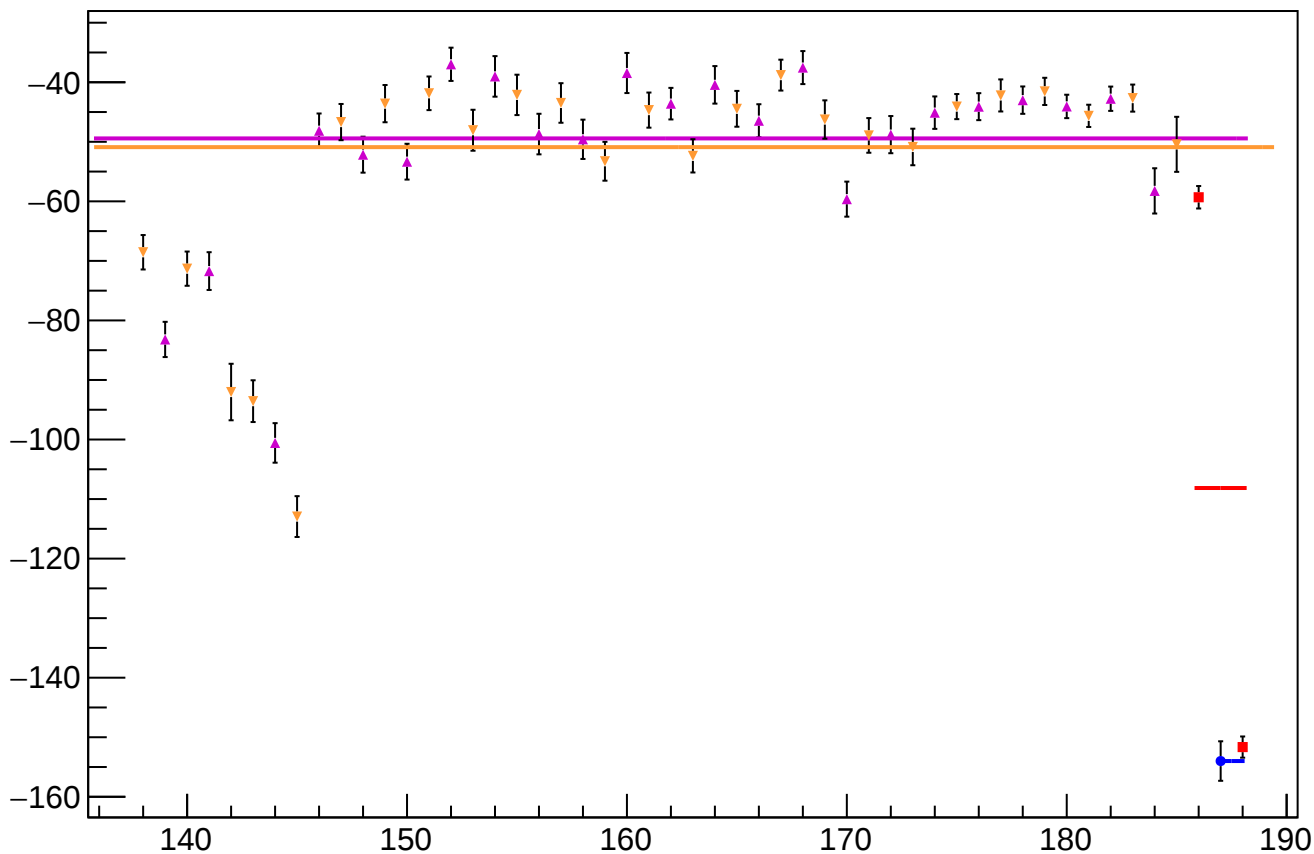
Right: -217.446 ± 0.092 $\chi^2/\text{NDF}: 276590.7/38$

In: -254.501 ± 0.071 $\chi^2/\text{NDF}: 510939.0/40$

Out: -243.689 ± 0.068 $\chi^2/\text{NDF}: 921631.9/45$

All: -248.882 ± 0.049 $\chi^2/\text{NDF}: 1444548.5/86$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -153.998 ± 3.318 χ^2/NDF : 0.0/0

Left Out: -50.897 ± 0.573 χ^2/NDF : 761.1/24

Right Out: -108.144 ± 1.295 χ^2/NDF : 1267.7/1

Left In: -49.432 ± 0.584 χ^2/NDF : 543.4/22

Left: -50.179 ± 0.409 χ^2/NDF : 1307.8/47

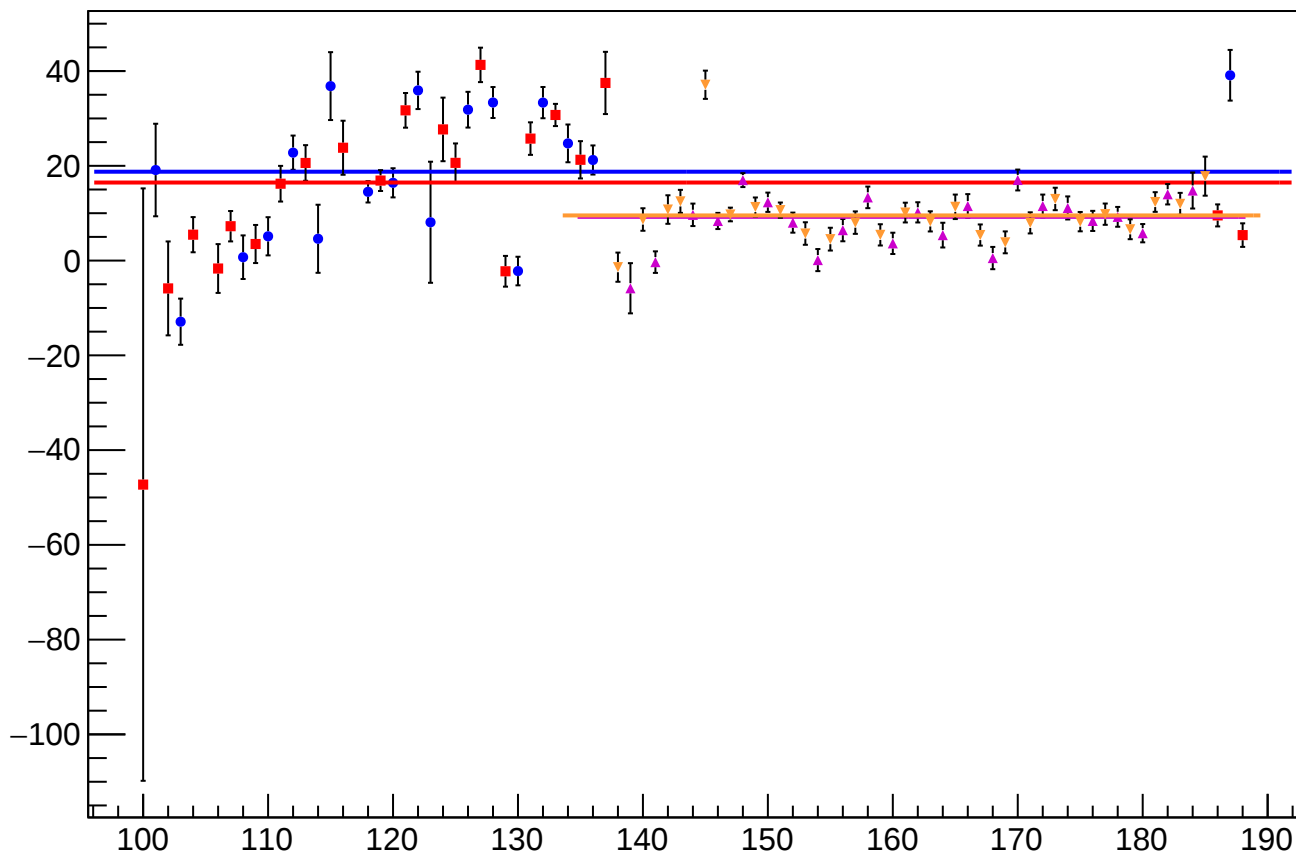
Right: -114.202 ± 1.206 χ^2/NDF : 1433.4/2

In: -52.573 ± 0.575 χ^2/NDF : 1506.7/23

Out: -60.269 ± 0.524 χ^2/NDF : 3664.2/26

All: -56.779 ± 0.387 χ^2/NDF : 5268.8/50

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.757 ± 0.905 χ^2/NDF : 221.5/17

Left Out: 9.530 ± 0.446 χ^2/NDF : 134.4/24

Right Out: 16.473 ± 0.770 χ^2/NDF : 234.9/20

Left In: 9.231 ± 0.462 χ^2/NDF : 124.0/22

Left: 9.386 ± 0.321 χ^2/NDF : 258.5/47

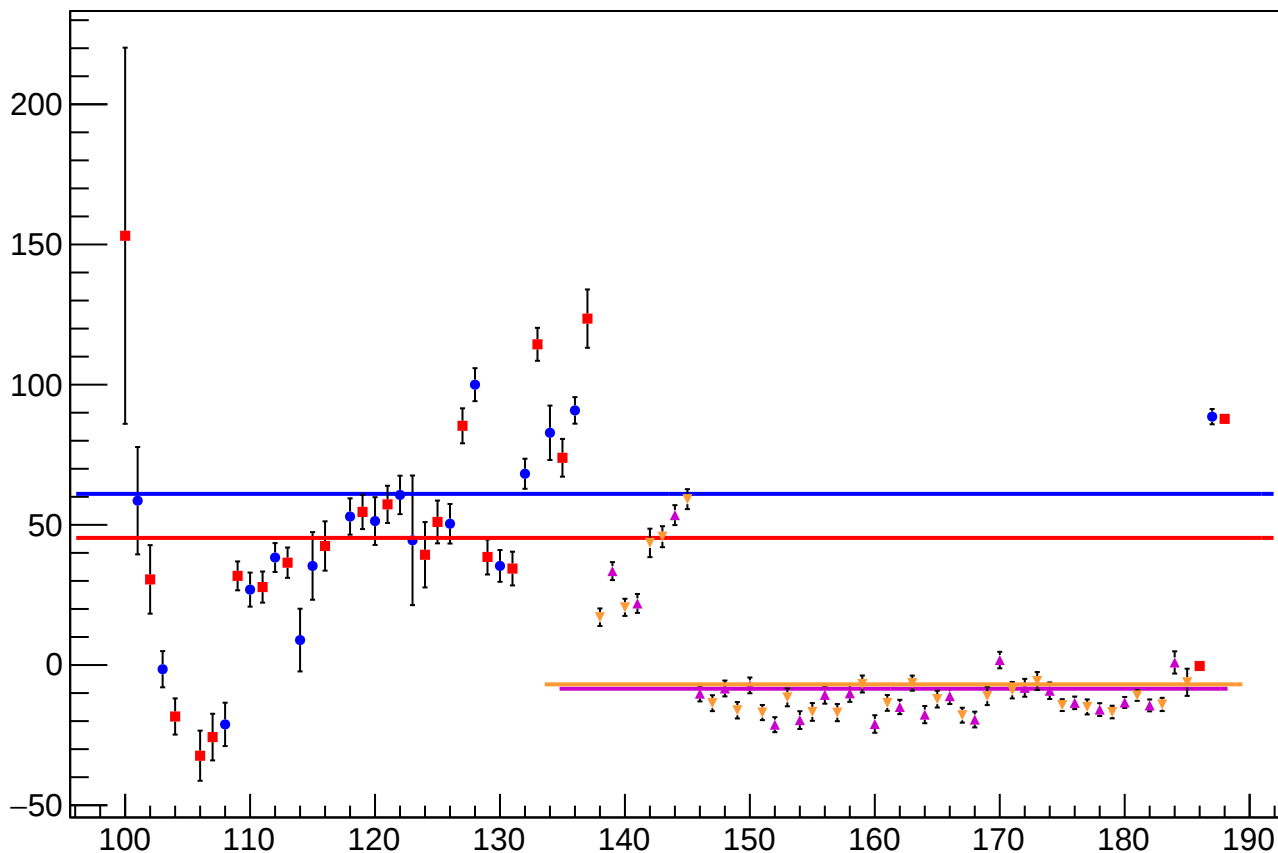
Right: 17.432 ± 0.587 χ^2/NDF : 460.1/38

In: 11.197 ± 0.411 χ^2/NDF : 433.3/40

Out: 11.274 ± 0.386 χ^2/NDF : 430.2/45

All: 11.238 ± 0.281 χ^2/NDF : 863.5/86

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 61.051 $\pm$ 1.431 χ^2 /NDF: 502.5/17

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF: 914.2/24

Right Out: 45.344 $\pm$ 0.873 χ^2 /NDF: 2323.2/20

Left In: -8.451 $\pm$ 0.580 χ^2 /NDF: 688.9/22

Left: -7.658 $\pm$ 0.407 χ^2 /NDF: 1606.8/47

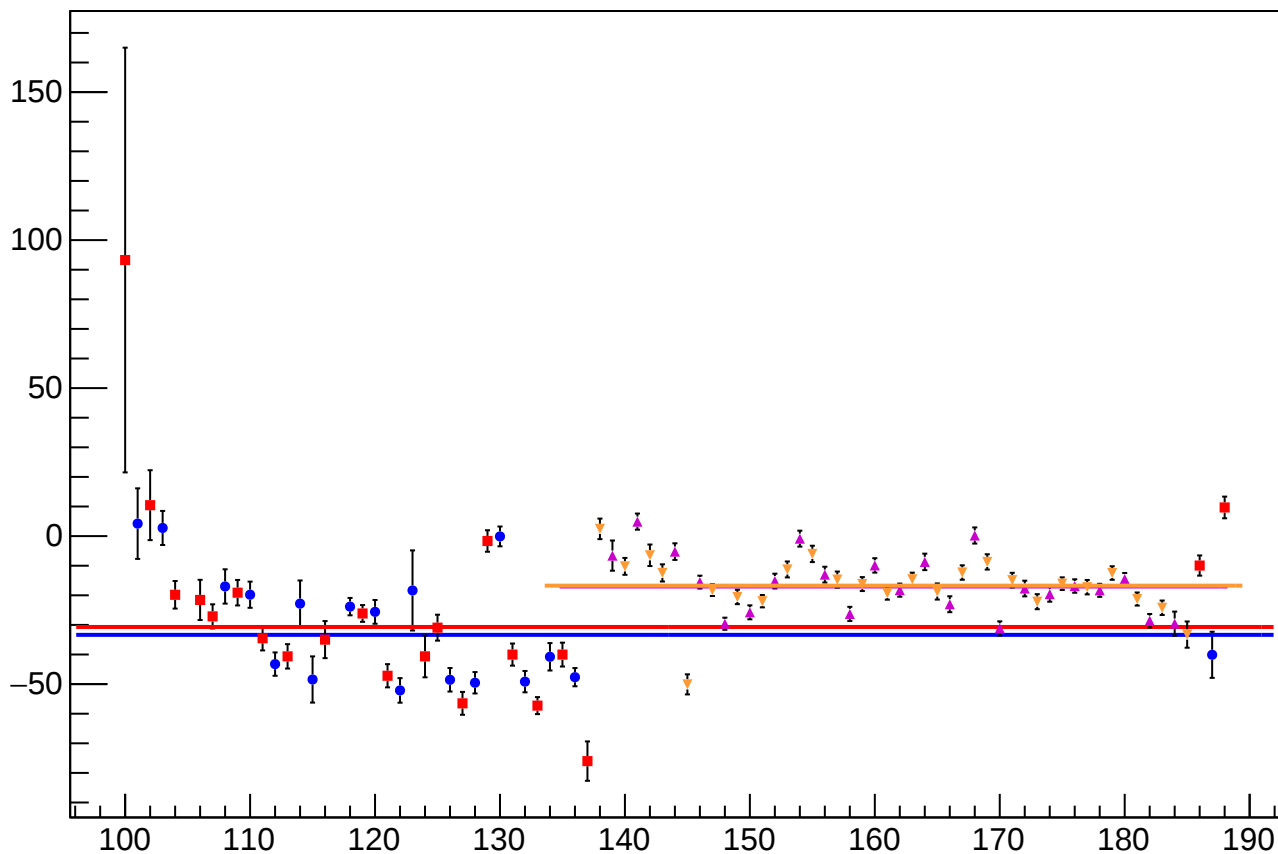
Right: 49.607 $\pm$ 0.745 χ^2 /NDF: 2913.6/38

In: 1.355 $\pm$ 0.537 χ^2 /NDF: 3218.6/40

Out: 8.756 $\pm$ 0.478 χ^2 /NDF: 5743.9/45

All: 5.487 $\pm$ 0.357 χ^2 /NDF: 9068.4/86

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -33.359 ± 1.036 χ^2/NDF : 292.1/17

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -30.697 ± 0.923 χ^2/NDF : 470.4/20

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

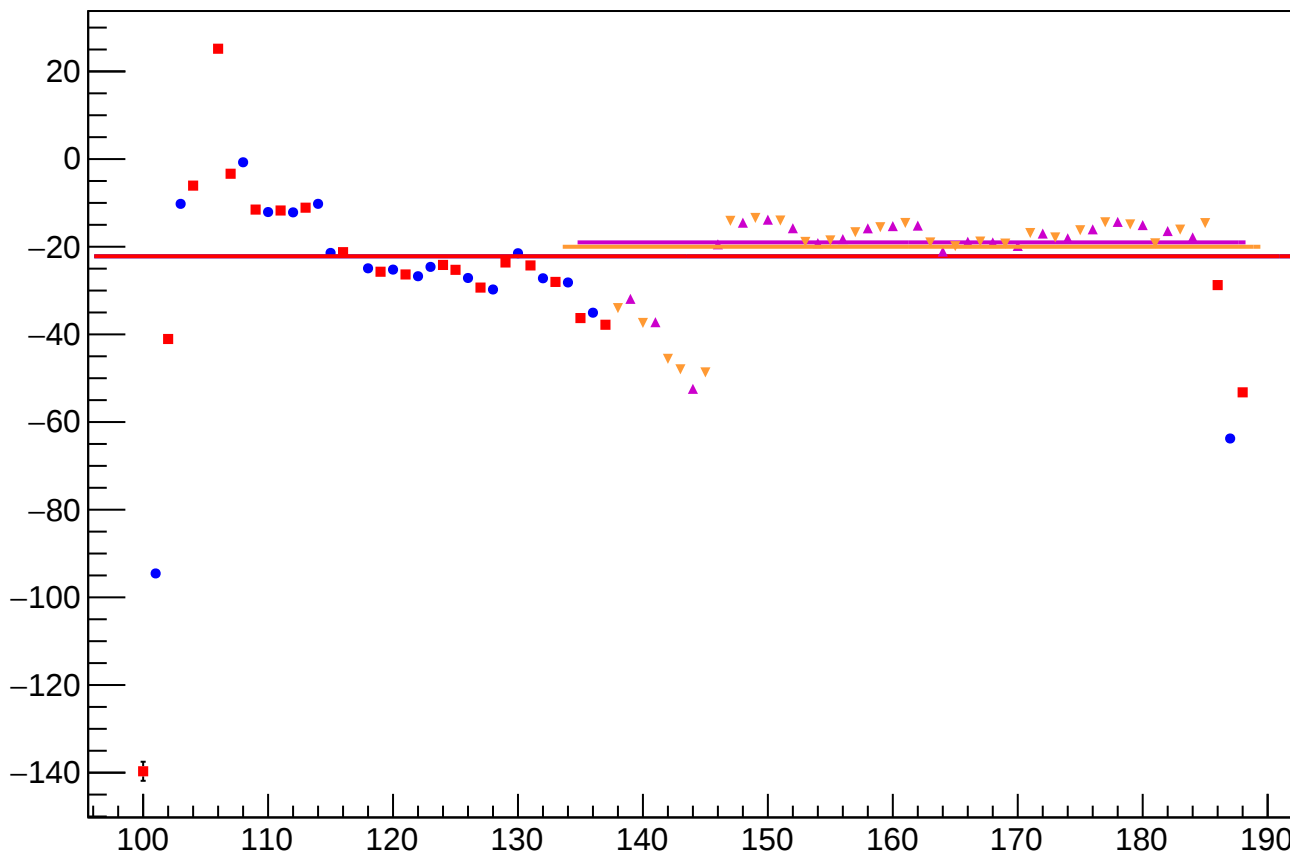
Right: -31.874 ± 0.689 χ^2/NDF : 766.2/38

In: -20.328 ± 0.466 χ^2/NDF : 818.0/40

Out: -19.968 ± 0.444 χ^2/NDF : 869.6/45

All: -20.140 ± 0.322 χ^2/NDF : 1687.9/86

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -22.189 ± 0.058 χ^2/NDF : 58054.3/17

Left Out: -20.006 ± 0.023 χ^2/NDF : 145623.8/24

Right Out: -22.178 ± 0.053 χ^2/NDF : 117026.6/20

Left In: -19.007 ± 0.024 χ^2/NDF : 90873.3/22

Left: -19.514 ± 0.017 χ^2/NDF : 237400.2/47

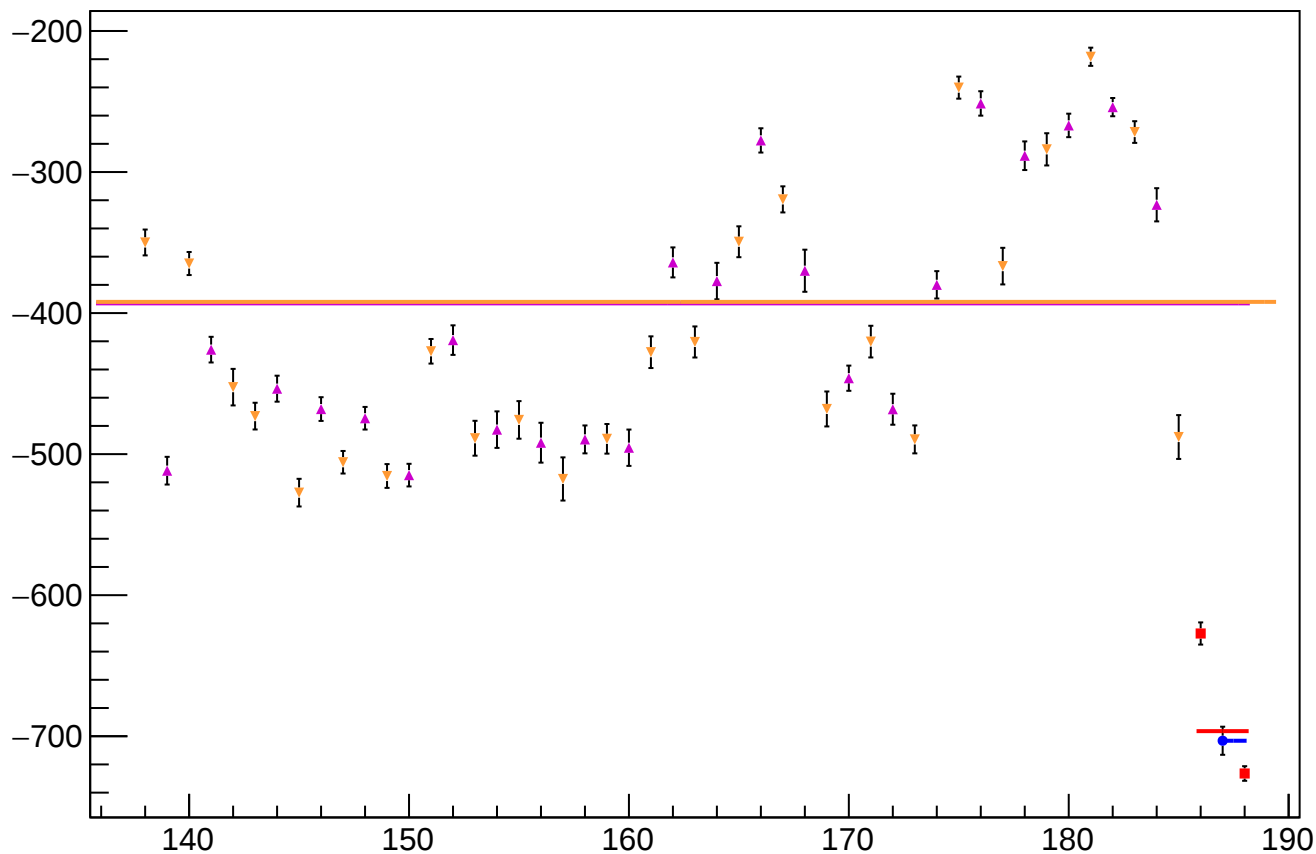
Right: -22.183 ± 0.039 χ^2/NDF : 175080.9/38

In: -19.456 ± 0.022 χ^2/NDF : 151472.4/40

Out: -20.355 ± 0.021 χ^2/NDF : 264047.0/45

All: -19.918 ± 0.015 χ^2/NDF : 416381.7/86

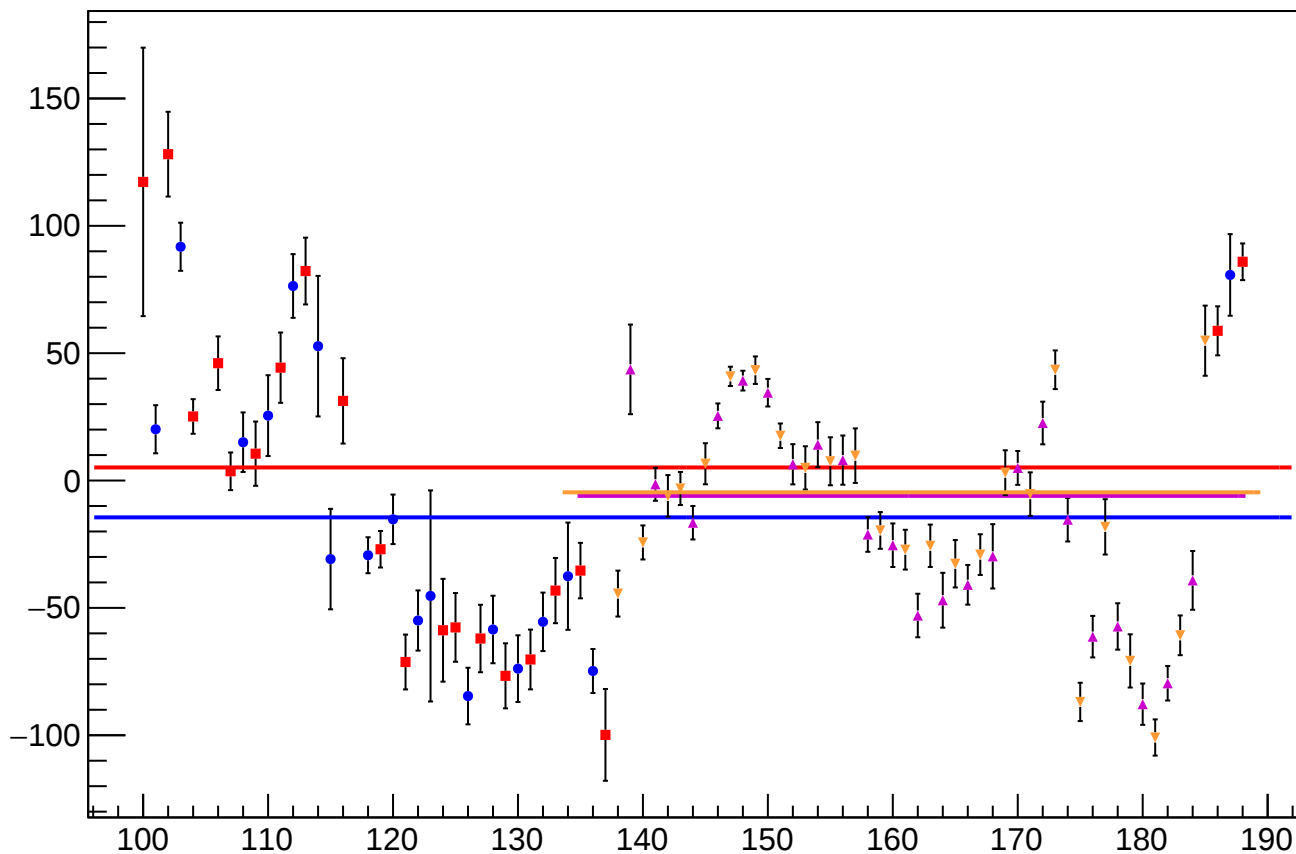
reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -703.210 ± 9.965 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -392.054 ± 1.967 $\chi^2/\text{NDF}: 2717.2/24$
 Right Out: -696.396 ± 4.325 $\chi^2/\text{NDF}: 111.2/1$
 Left In: -393.113 ± 2.006 $\chi^2/\text{NDF}: 2253.3/22$

Left: -392.573 ± 1.404 $\chi^2/\text{NDF}: 4970.6/47$
 Right: -697.476 ± 3.967 $\chi^2/\text{NDF}: 111.6/2$
 In: -405.186 ± 1.966 $\chi^2/\text{NDF}: 3184.1/23$
 Out: -444.205 ± 1.790 $\chi^2/\text{NDF}: 6932.3/26$
 All: -426.519 ± 1.324 $\chi^2/\text{NDF}: 10331.7/50$

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -14.460 ± 2.783 $\chi^2/\text{NDF}: 398.4/17$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 5.134 ± 2.379 $\chi^2/\text{NDF}: 557.2/20$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

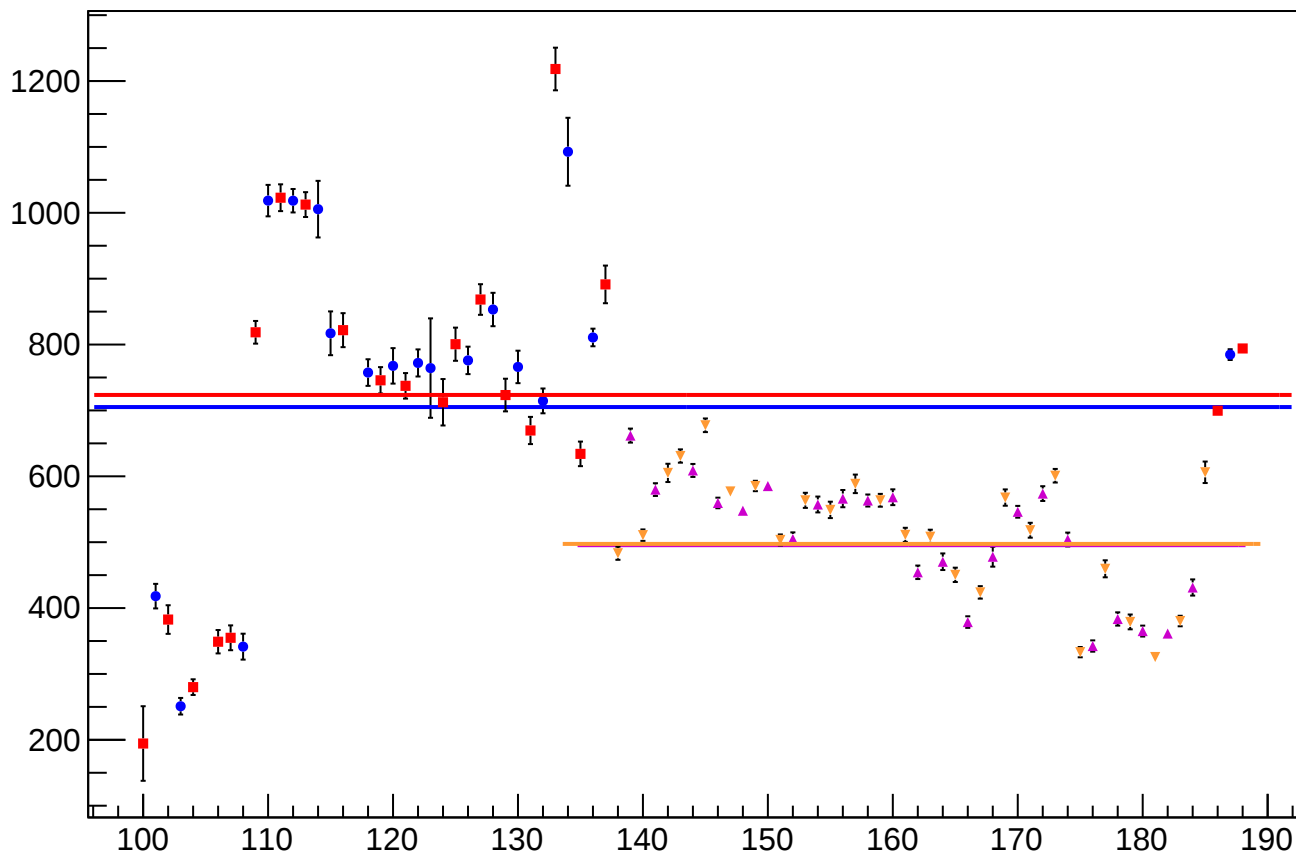
Right: -3.139 ± 1.808 $\chi^2/\text{NDF}: 984.2/38$

In: -7.951 ± 1.331 $\chi^2/\text{NDF}: 1059.6/40$

Out: -1.948 ± 1.246 $\chi^2/\text{NDF}: 1342.3/45$

All: -4.750 ± 0.910 $\chi^2/\text{NDF}: 2412.7/86$

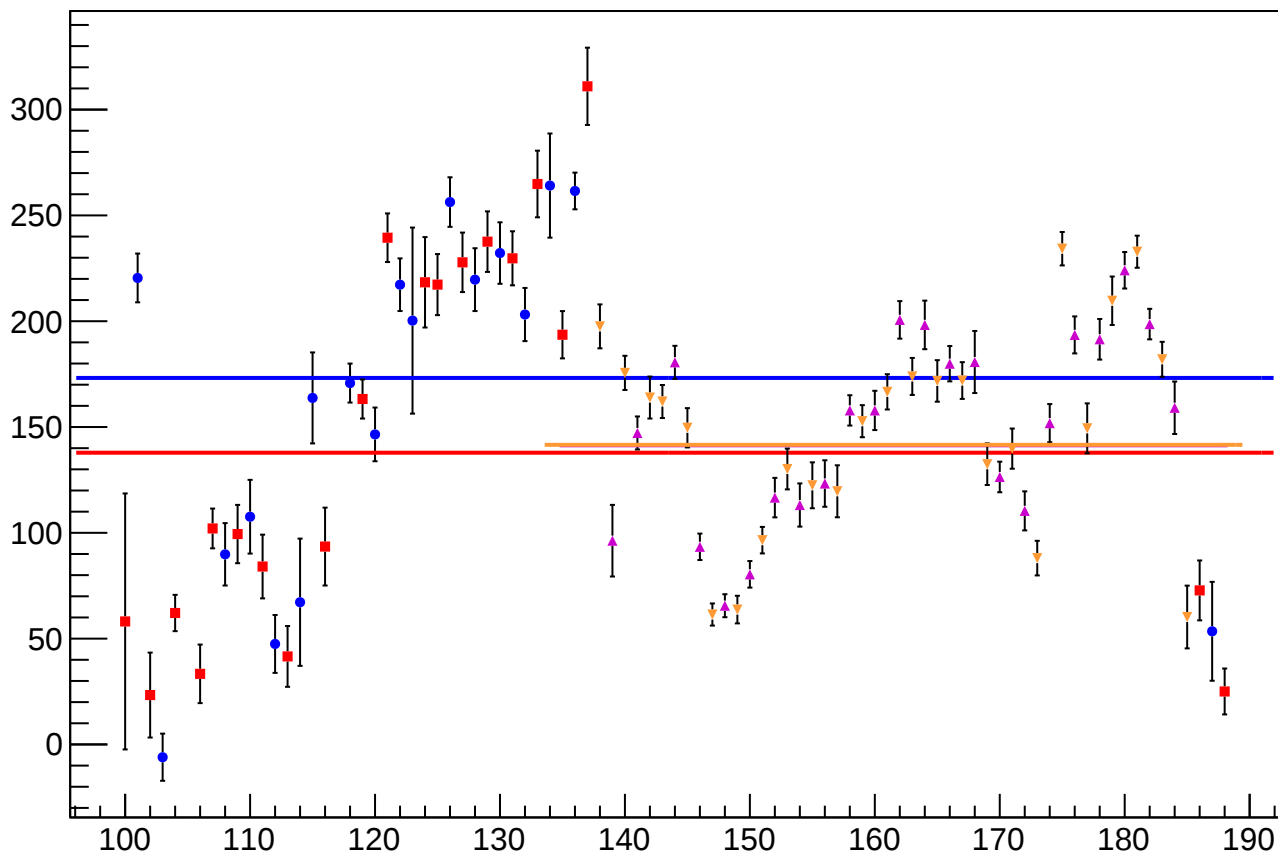
reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 705.132 $\pm$ 4.314 χ^2 /NDF: 2711.6/17
 Left Out: 497.381 $\pm$ 1.966 χ^2 /NDF:2614.6/24
 Right Out: 723.507 $\pm$ 2.802 χ^2 /NDF: 3697.0/20
 Left In: 495.454 $\pm$ 1.992 χ^2 /NDF:2253.8/22

Left: 496.430 $\pm$ 1.399 χ^2 /NDF: 4868.9/47
 Right: 718.054 $\pm$ 2.350 χ^2 /NDF: 6421.4/38
 In: 532.311 $\pm$ 1.809 χ^2 /NDF:6912.7/40
 Out: 571.958 $\pm$ 1.609 χ^2 /NDF:10675.0/45
 All: 554.437 $\pm$ 1.202 χ^2 /NDF: 17855.8/86

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 173.199 $\pm$ 3.215 χ^2 /NDF: 662.2/17

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 137.856 $\pm$ 2.872 χ^2 /NDF: 835.9/20

Left In: 141.360 $\pm$ 1.748 χ^2 /NDF:741.2/22

Left: 141.478 $\pm$ 1.218 χ^2 /NDF: 1700.8/47

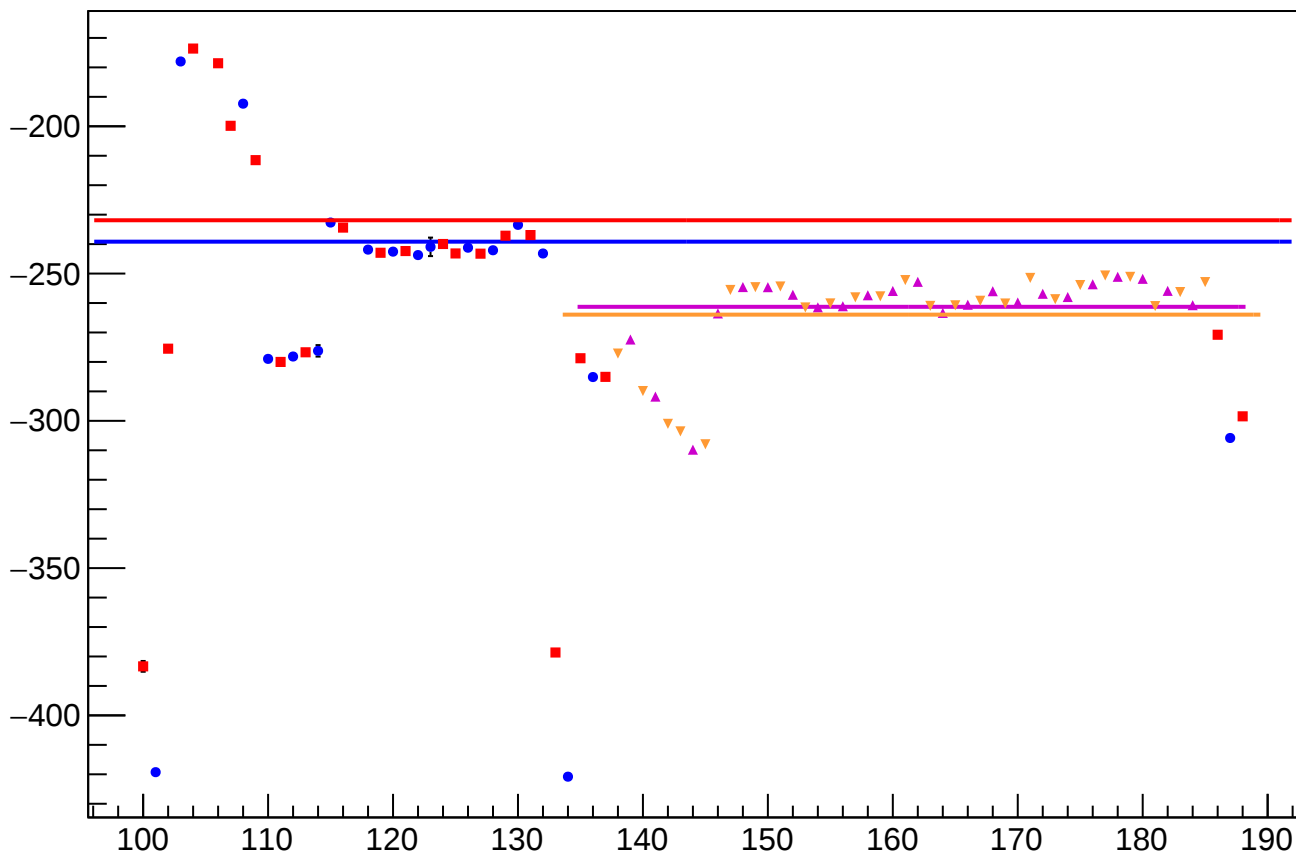
Right: 153.542 $\pm$ 2.142 χ^2 /NDF: 1565.3/38

In: 148.626 $\pm$ 1.536 χ^2 /NDF:1479.1/40

Out: 140.621 $\pm$ 1.462 χ^2 /NDF:1796.7/45

All: 144.427 $\pm$ 1.059 χ^2 /NDF: 3290.1/86

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -239.170+/-0.159 χ^2/NDF : 169654.7/17

Left Out: -263.943+/-0.081 χ^2/NDF : 39085.0/24

Right Out: -231.904+/-0.145 χ^2/NDF : 118263.3/20

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

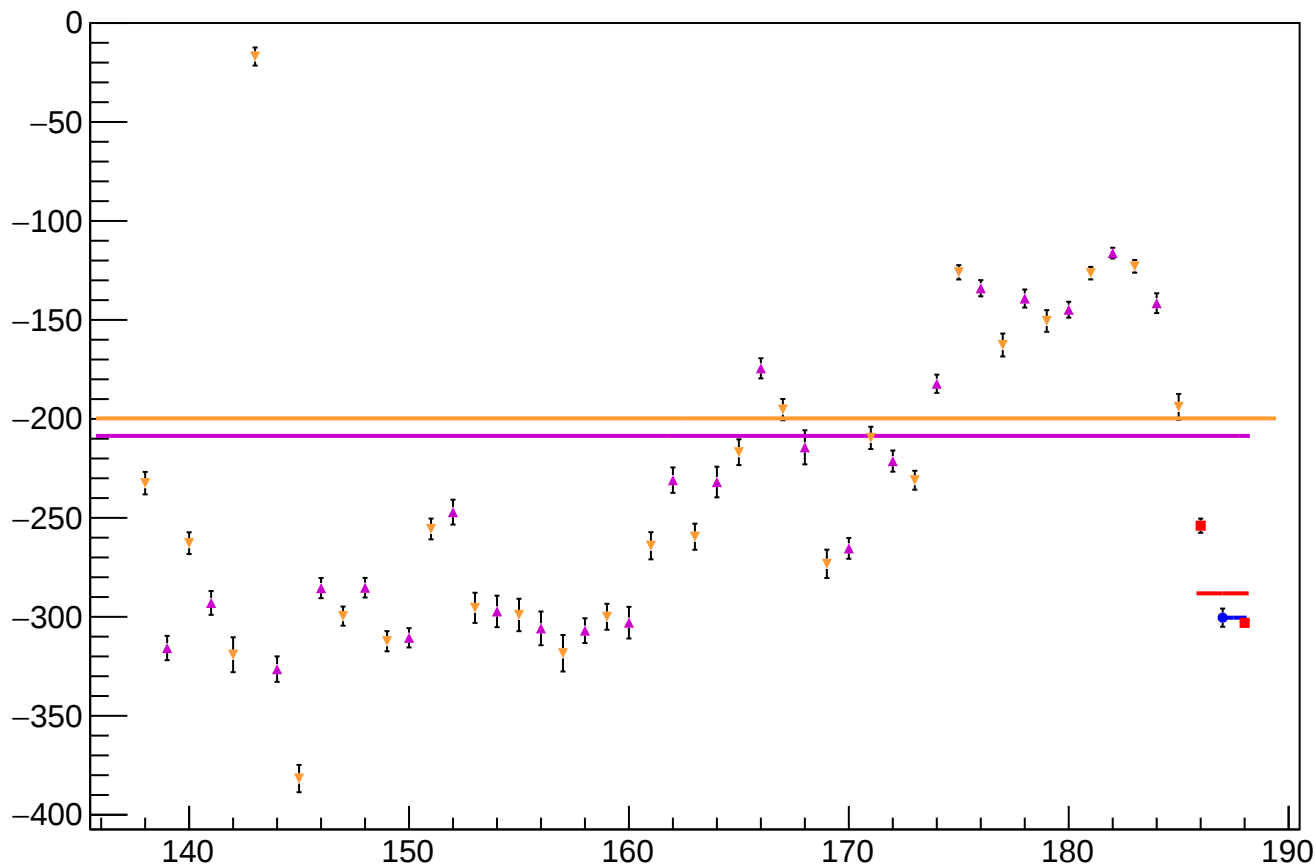
Right: -235.193+/-0.107 χ^2/NDF : 289054.5/38

In: -256.662+/-0.073 χ^2/NDF : 208222.3/40

Out: -256.287+/-0.071 χ^2/NDF : 194508.8/45

All: -256.469+/-0.051 χ^2/NDF : 402744.8/86

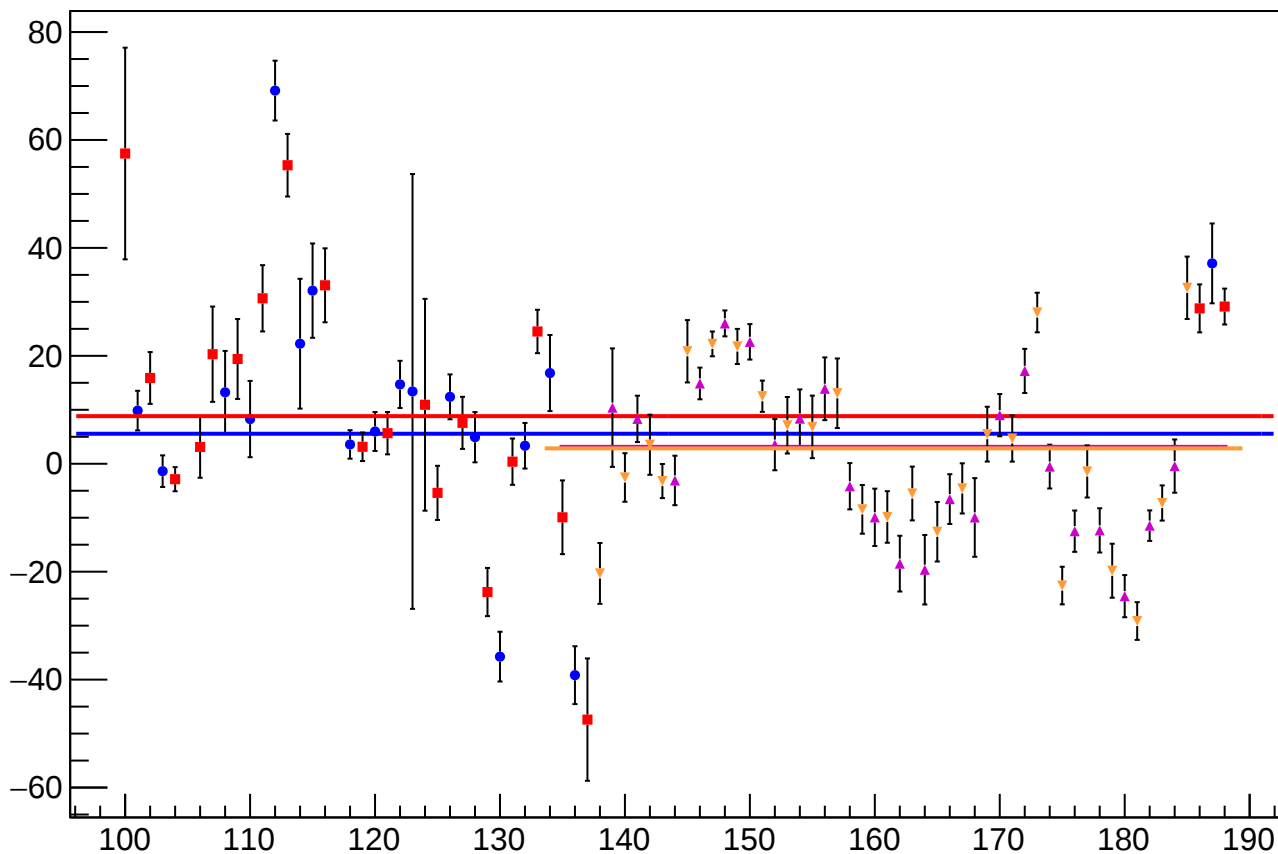
reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -300.418+/-4.592 χ^2/NDF : 0.0/0
 Left Out: -199.741+/-1.061 χ^2/NDF : 6361.5/24
 Right Out: -288.132+/-1.978 χ^2/NDF : 130.3/1
 Left In: -208.579+/-1.082 χ^2/NDF : 4805.1/22

Left: -204.073+/-0.758 χ^2/NDF : 11200.6/47
 Right: -290.056+/-1.817 χ^2/NDF : 136.3/2
 In: -213.413+/-1.053 χ^2/NDF : 5184.1/23
 Out: -219.495+/-0.935 χ^2/NDF : 8042.5/26
 All: -216.815+/-0.699 χ^2/NDF : 13245.2/50

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.562 $\pm$ 1.095 χ^2 /NDF: 329.5/17

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF:419.8/24

Right Out: 8.824 $\pm$ 0.993 χ^2 /NDF: 305.2/20

Left In: 3.136 $\pm$ 0.857 χ^2 /NDF:319.8/22

Left: 2.988 $\pm$ 0.592 χ^2 /NDF: 739.7/47

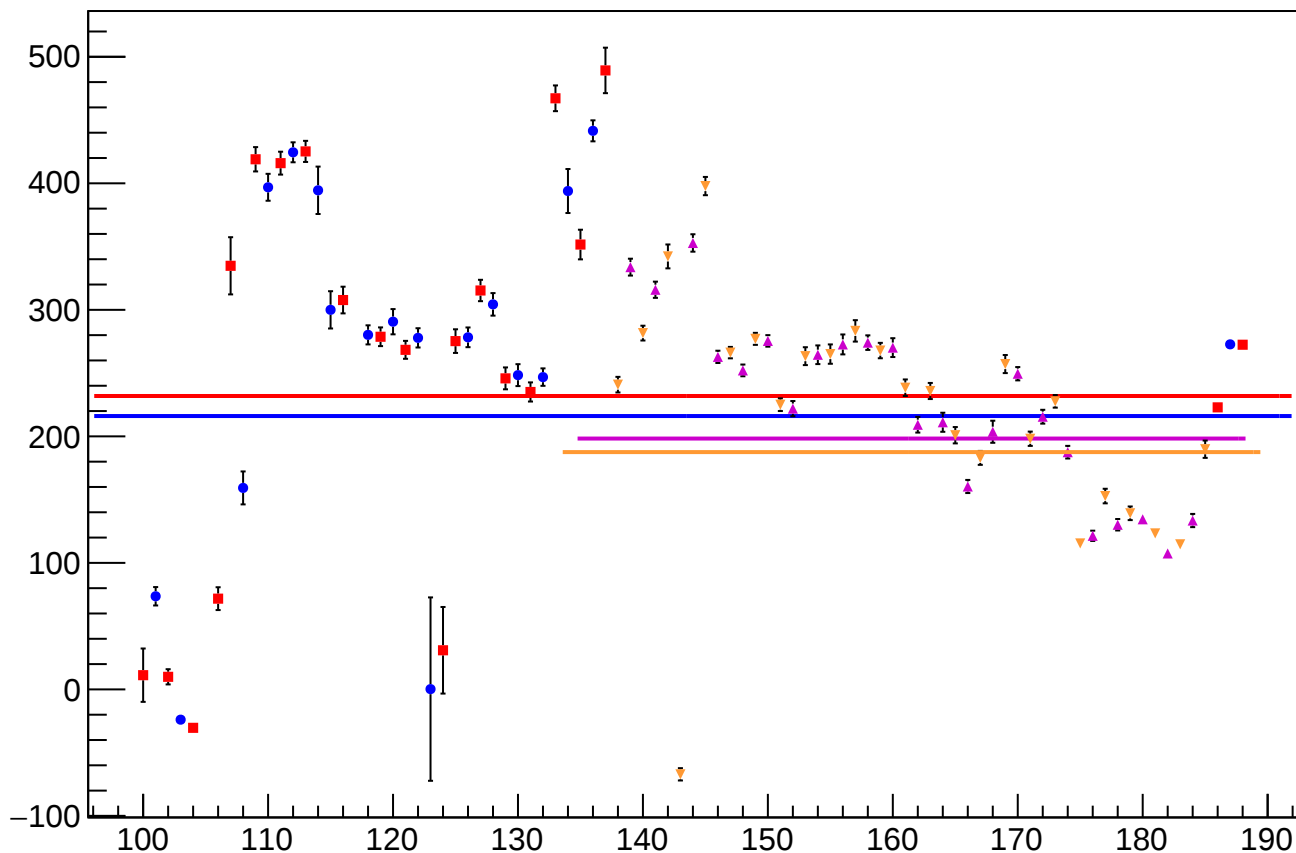
Right: 7.353 $\pm$ 0.735 χ^2 /NDF: 639.6/38

In: 4.057 $\pm$ 0.675 χ^2 /NDF:652.4/40

Out: 5.274 $\pm$ 0.632 χ^2 /NDF:746.5/45

All: 4.705 $\pm$ 0.461 χ^2 /NDF: 1400.6/86

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 216.060 $\pm$ 1.758 χ^2/NDF : 7005.8/17

Left Out: 187.565 $\pm$ 1.066 χ^2/NDF : 7082.0/24

Right Out: 231.904 $\pm$ 1.226 χ^2/NDF : 9077.2/20

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

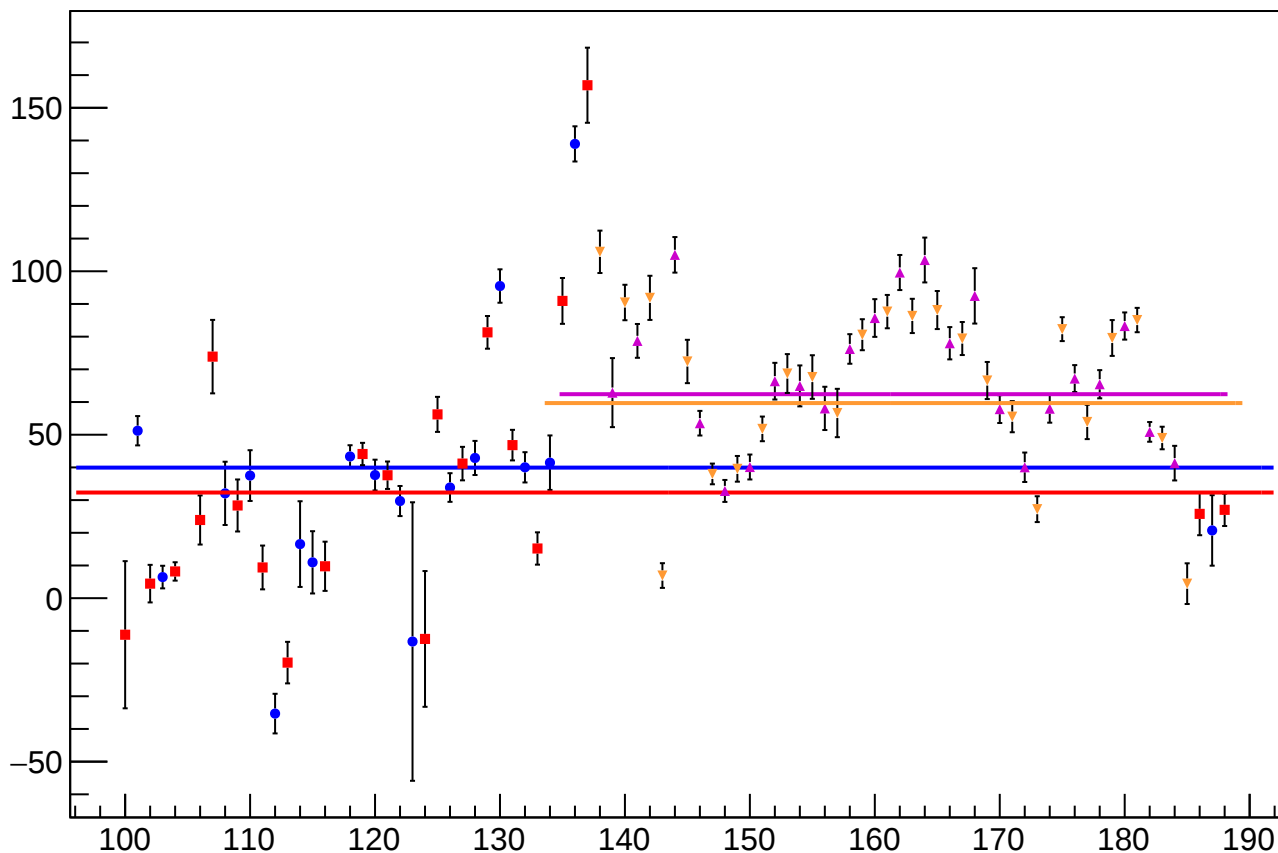
Right: 226.720 $\pm$ 1.005 χ^2/NDF : 16137.6/38

In: 203.155 $\pm$ 0.921 χ^2/NDF : 11595.9/40

Out: 206.657 $\pm$ 0.804 χ^2/NDF : 16904.4/45

All: 205.142 $\pm$ 0.606 χ^2/NDF : 28508.4/86

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 39.941 ± 1.277 $\chi^2/\text{NDF}: 737.1/17$

Left Out: 59.682 ± 0.941 $\chi^2/\text{NDF}: 757.6/24$

Right Out: 32.318 ± 1.194 $\chi^2/\text{NDF}: 552.1/20$

Left In: 62.400 ± 0.974 $\chi^2/\text{NDF}: 406.3/22$

Left: 60.993 ± 0.677 $\chi^2/\text{NDF}: 1167.9/47$

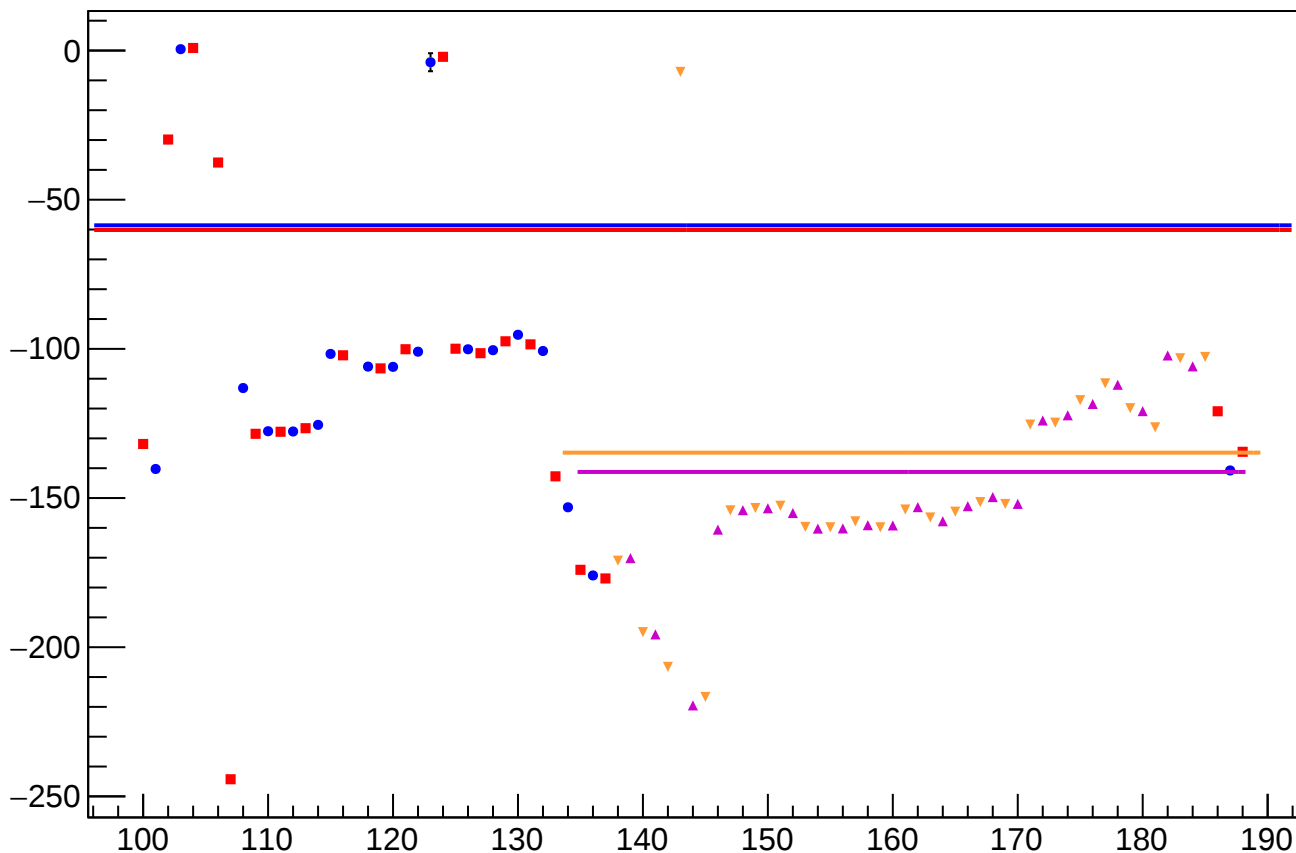
Right: 35.874 ± 0.872 $\chi^2/\text{NDF}: 1308.3/38$

In: 54.135 ± 0.774 $\chi^2/\text{NDF}: 1339.0/40$

Out: 49.198 ± 0.739 $\chi^2/\text{NDF}: 1633.9/45$

All: 51.551 ± 0.535 $\chi^2/\text{NDF}: 2994.2/86$

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -58.591 ± 0.062 $\chi^2/\text{NDF}: 1118658.9/17$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -60.153 ± 0.058 $\chi^2/\text{NDF}: 1114275.4/20$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

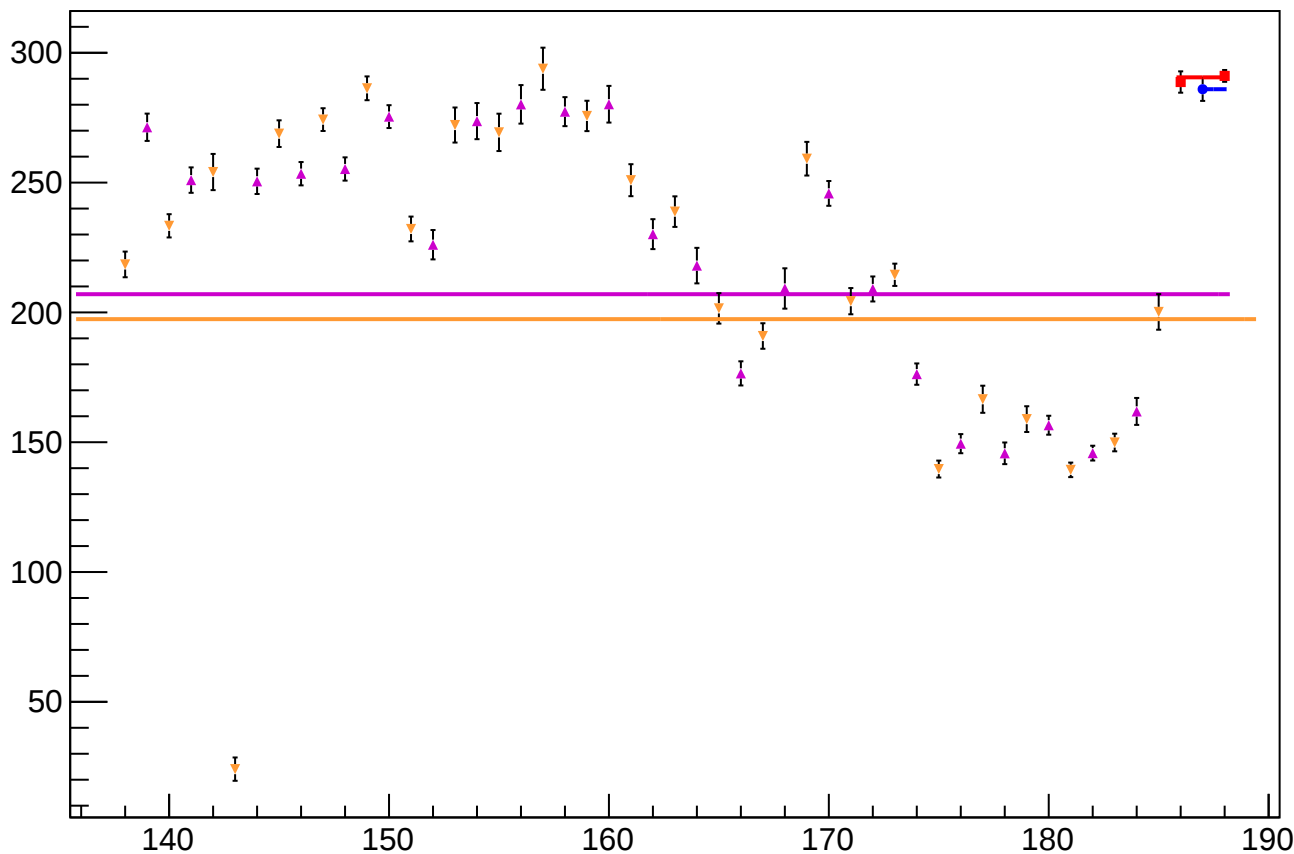
Right: -59.416 ± 0.042 $\chi^2/\text{NDF}: 2233275.2/38$

In: -112.201 ± 0.036 $\chi^2/\text{NDF}: 2636777.4/40$

Out: -107.197 ± 0.035 $\chi^2/\text{NDF}: 2958369.8/45$

All: -109.619 ± 0.025 $\chi^2/\text{NDF}: 5604855.3/86$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 285.970 $\pm$ 4.498 χ^2 /NDF: 0.0/0

Left Out: 197.408 $\pm$ 0.963 χ^2 /NDF:4384.2/24

Right Out: 290.543 $\pm$ 1.993 χ^2 /NDF: 0.3/1

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

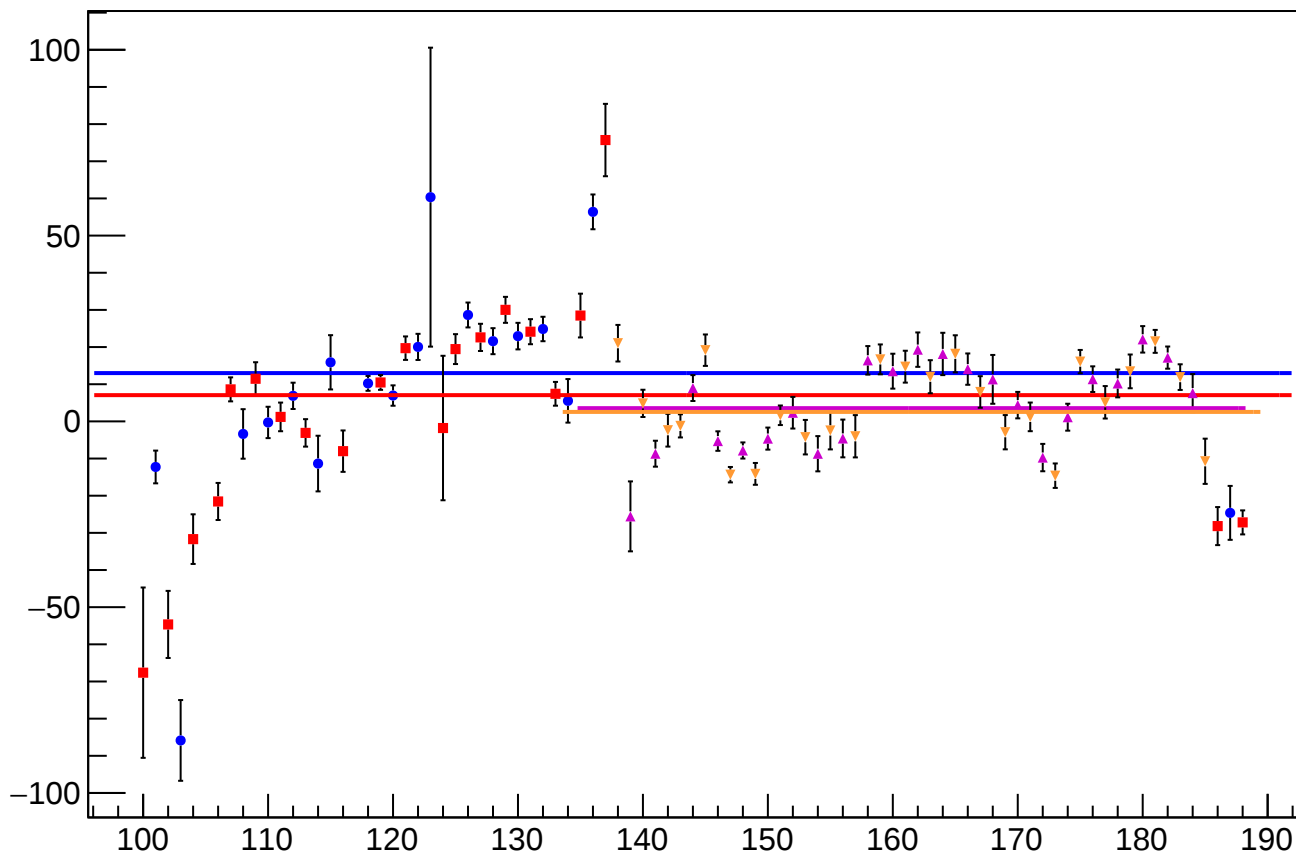
Right: 289.793 $\pm$ 1.822 χ^2 /NDF: 1.1/2

In: 210.664 $\pm$ 0.967 χ^2 /NDF:2905.4/23

Out: 215.030 $\pm$ 0.867 χ^2 /NDF:6154.6/26

All: 213.084 $\pm$ 0.646 χ^2 /NDF: 9071.3/50

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.997 ± 0.930 χ^2/NDF : 320.6/17

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: 7.061 ± 0.867 χ^2/NDF : 480.2/20

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

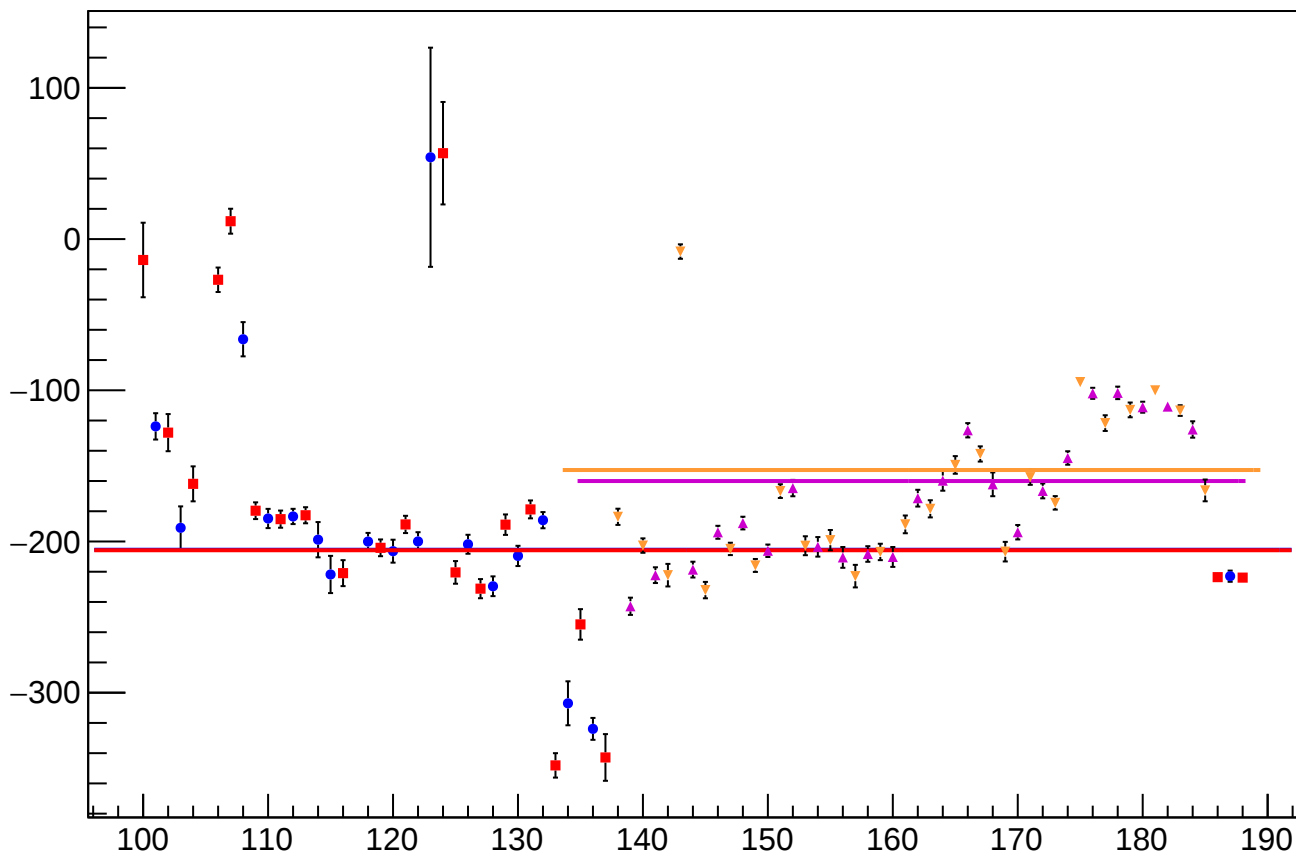
Right: 9.821 ± 0.634 χ^2/NDF : 822.6/38

In: 7.420 ± 0.595 χ^2/NDF : 573.4/40

Out: 4.451 ± 0.563 χ^2/NDF : 771.3/45

All: 5.855 ± 0.409 χ^2/NDF : 1357.8/86

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -205.462 ± 1.618 χ^2/NDF : 652.6/17

Left Out: -152.738 ± 0.967 χ^2/NDF : 3077.8/24

Right Out: -205.794 ± 1.167 χ^2/NDF : 2013.9/20

Left In: -160.021 ± 0.989 χ^2/NDF : 2024.4/22

Left: -156.299 ± 0.691 χ^2/NDF : 5129.9/47

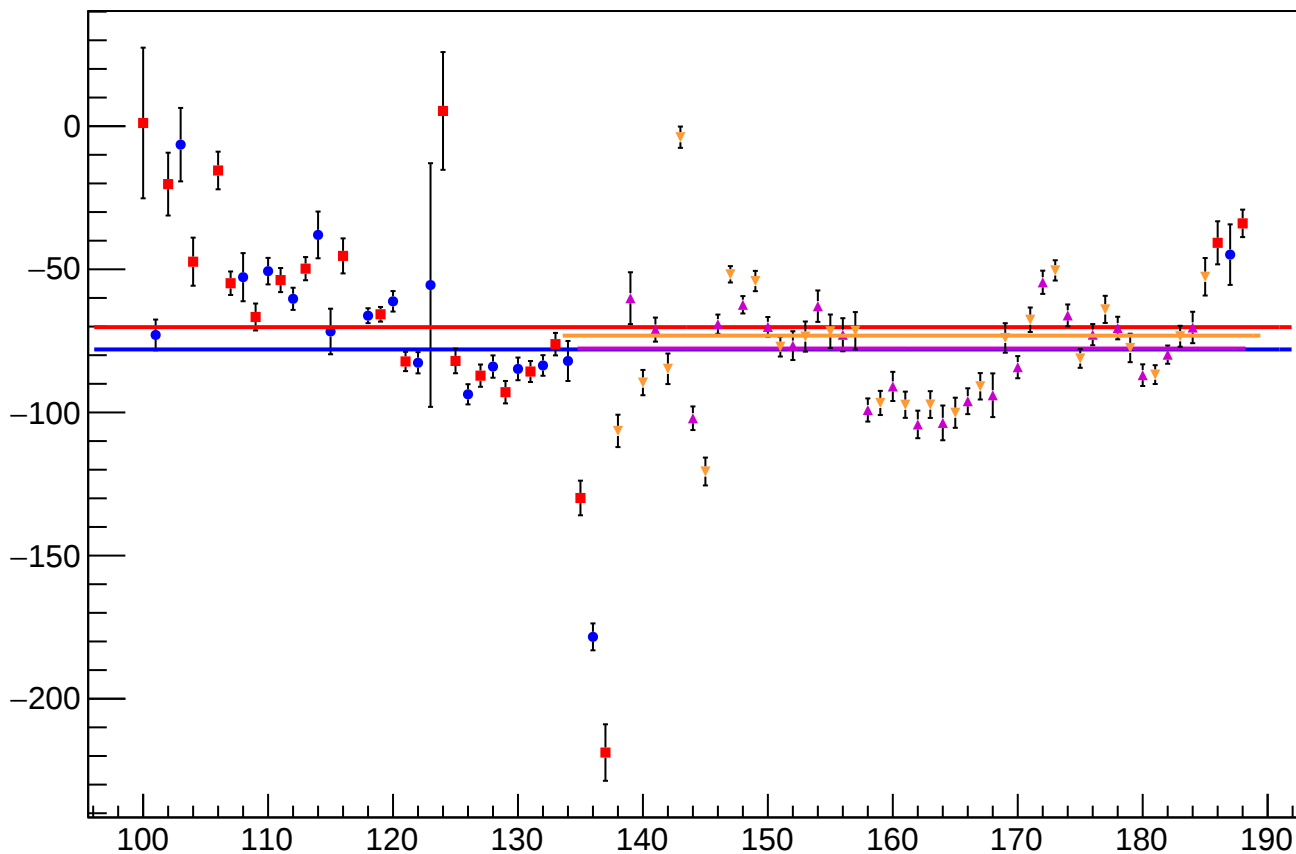
Right: -205.680 ± 0.947 χ^2/NDF : 2666.5/38

In: -172.375 ± 0.844 χ^2/NDF : 3251.2/40

Out: -174.330 ± 0.745 χ^2/NDF : 6316.9/45

All: -173.474 ± 0.558 χ^2/NDF : 9571.1/86

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -77.986 ± 1.078 χ^2/NDF : 659.8/17

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -70.205 ± 1.020 χ^2/NDF : 682.8/20

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

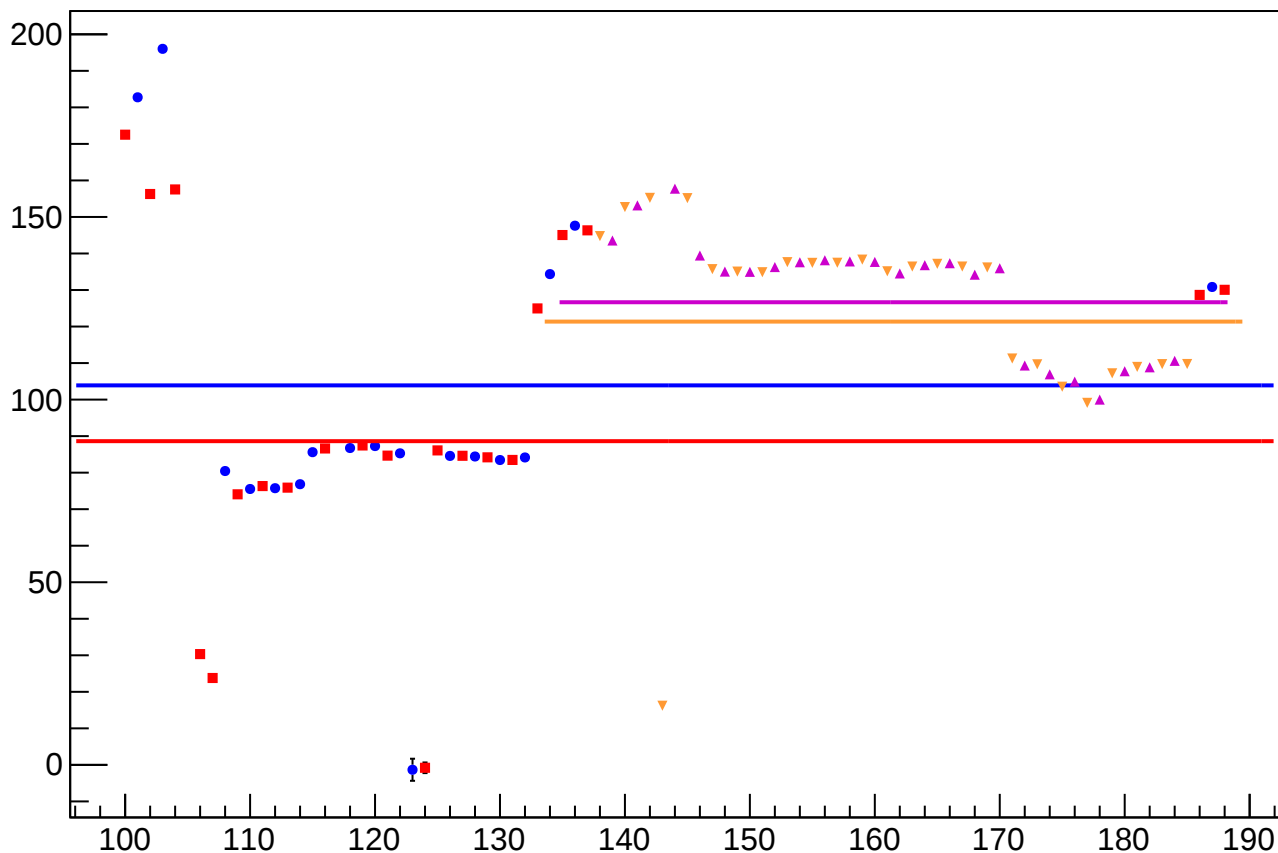
Right: -73.878 ± 0.741 χ^2/NDF : 1370.0/38

In: -77.802 ± 0.683 χ^2/NDF : 908.1/40

Out: -71.949 ± 0.653 χ^2/NDF : 1476.3/45

All: -74.746 ± 0.472 χ^2/NDF : 2422.7/86

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 103.893+/-0.071 χ^2/NDF : 274577.7/17

Left Out: 121.356+/-0.040 χ^2/NDF : 481977.3/24

Right Out: 88.621+/-0.061 χ^2/NDF : 461750.5/20

Left In: 126.653+/-0.041 χ^2/NDF : 163046.1/22

Left: 123.954+/-0.029 χ^2/NDF : 653496.6/47

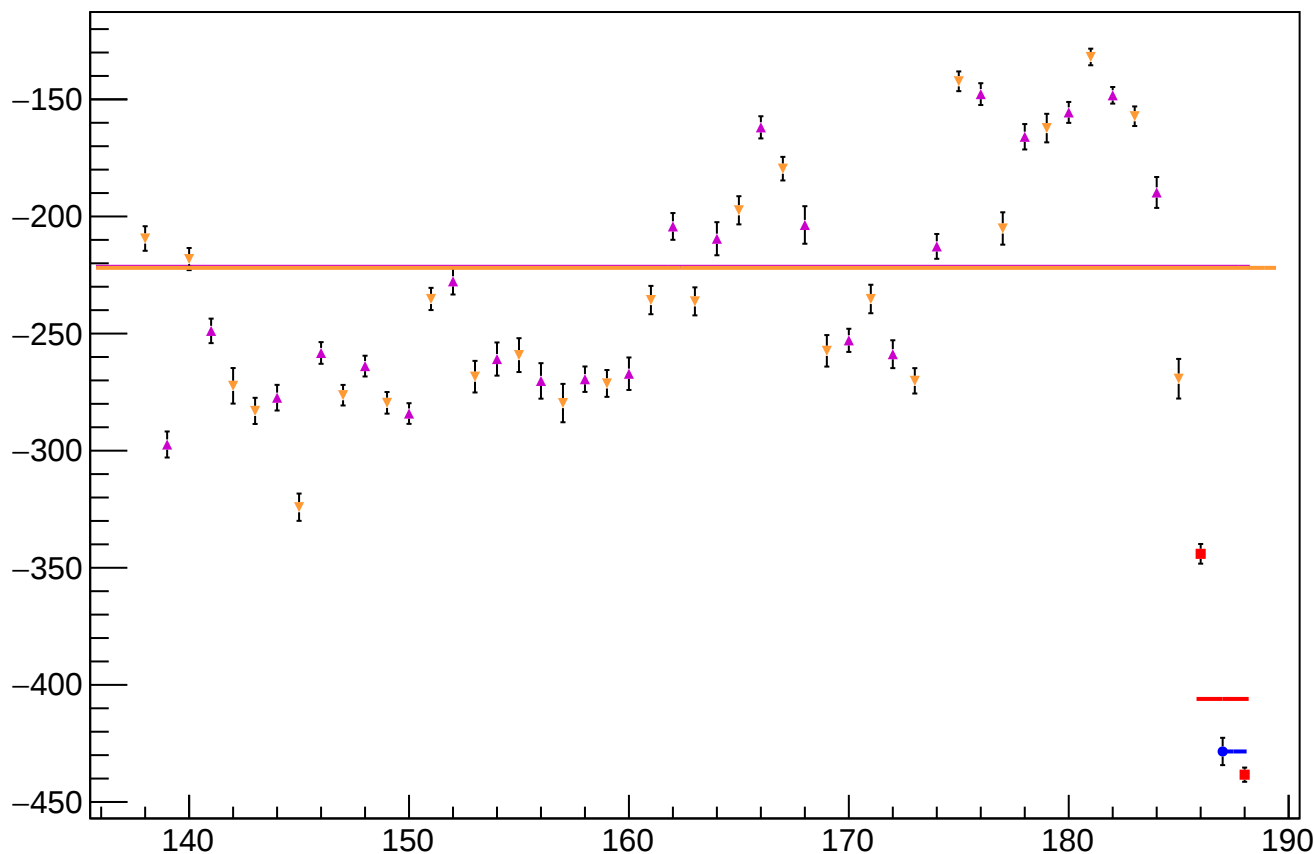
Right: 95.186+/-0.046 χ^2/NDF : 763074.8/38

In: 120.886+/-0.035 χ^2/NDF : 515418.6/40

Out: 111.459+/-0.034 χ^2/NDF : 1143172.5/45

All: 115.923+/-0.024 χ^2/NDF : 1695726.7/86

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



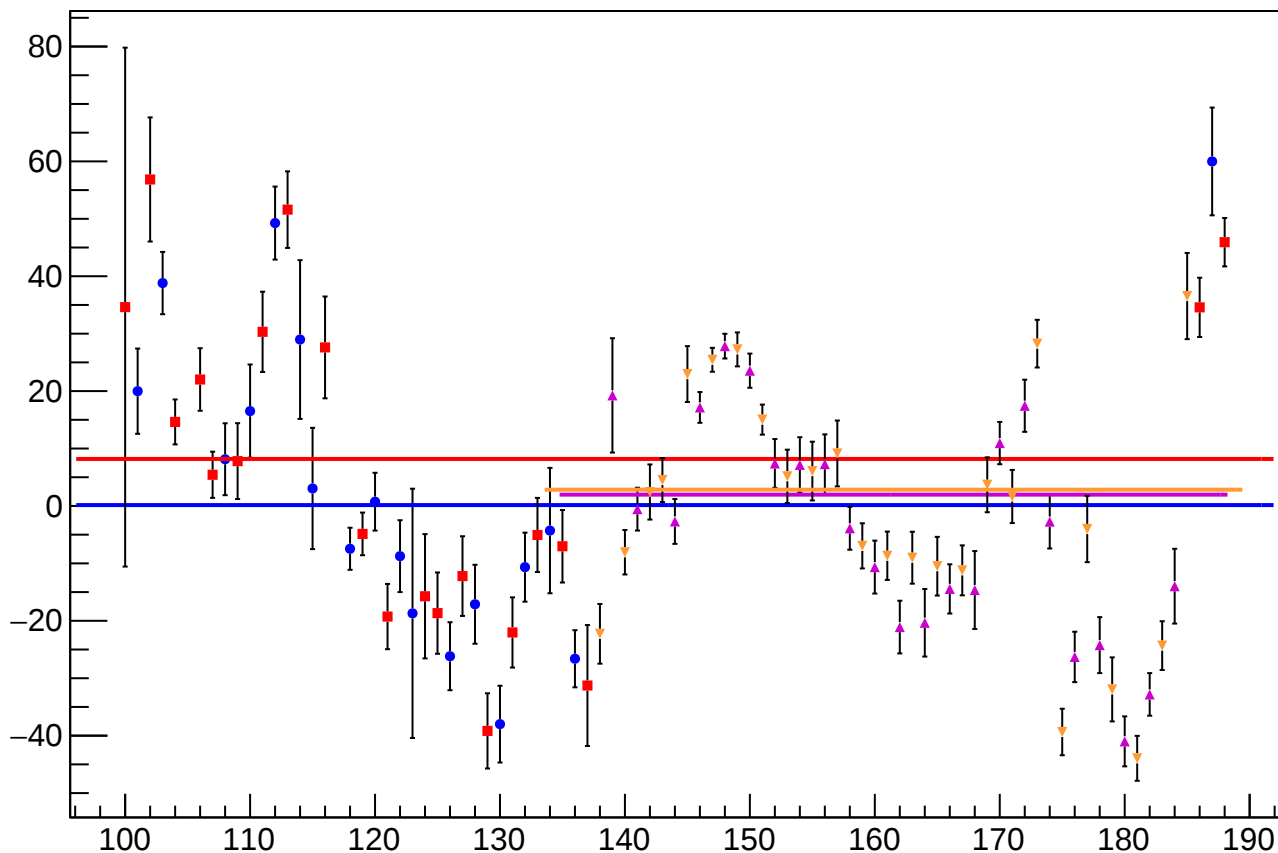
Right In: -428.433 ± 5.832 χ^2/NDF : 0.0/0
 Left Out: -221.934 ± 1.084 χ^2/NDF : 2578.4/24
 Right Out: -405.998 ± 2.462 χ^2/NDF : 330.6/1
 Left In: -221.483 ± 1.102 χ^2/NDF : 2149.8/22

Left: -221.712 ± 0.773 χ^2/NDF : 4728.2/47
 Right: -409.391 ± 2.268 χ^2/NDF : 343.2/2

In: -228.620 ± 1.083 χ^2/NDF : 3365.6/23
 Out: -251.842 ± 0.992 χ^2/NDF : 7590.1/26

All: -241.243 ± 0.732 χ^2/NDF : 11205.5/50

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.152 $\pm$ 1.519 χ^2/NDF : 266.5/17

Left Out: 2.832 $\pm$ 0.807 χ^2/NDF : 686.9/24

Right Out: 8.184 $\pm$ 1.288 χ^2/NDF : 358.2/20

Left In: 1.969 $\pm$ 0.835 χ^2/NDF : 589.1/22

Left: 2.415 $\pm$ 0.580 χ^2/NDF : 1276.5/47

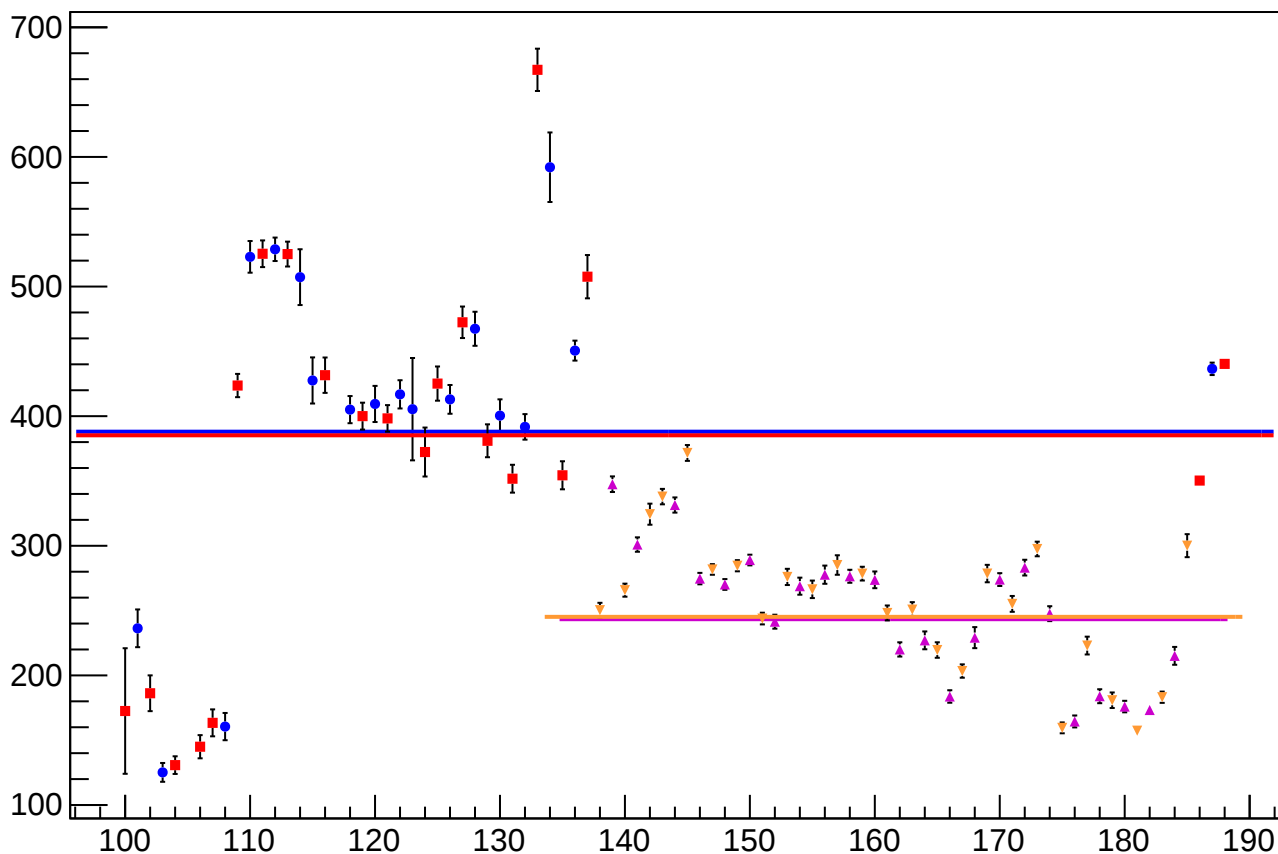
Right: 4.826 $\pm$ 0.982 χ^2/NDF : 641.0/38

In: 1.547 $\pm$ 0.732 χ^2/NDF : 856.7/40

Out: 4.342 $\pm$ 0.684 χ^2/NDF : 1057.5/45

All: 3.039 $\pm$ 0.500 χ^2/NDF : 1922.0/86

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 388.037 $\pm$ 2.406 χ^2 /NDF: 2567.1/17

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF: 2597.4/24

Right Out: 385.230 $\pm$ 1.564 χ^2 /NDF: 4279.5/20

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

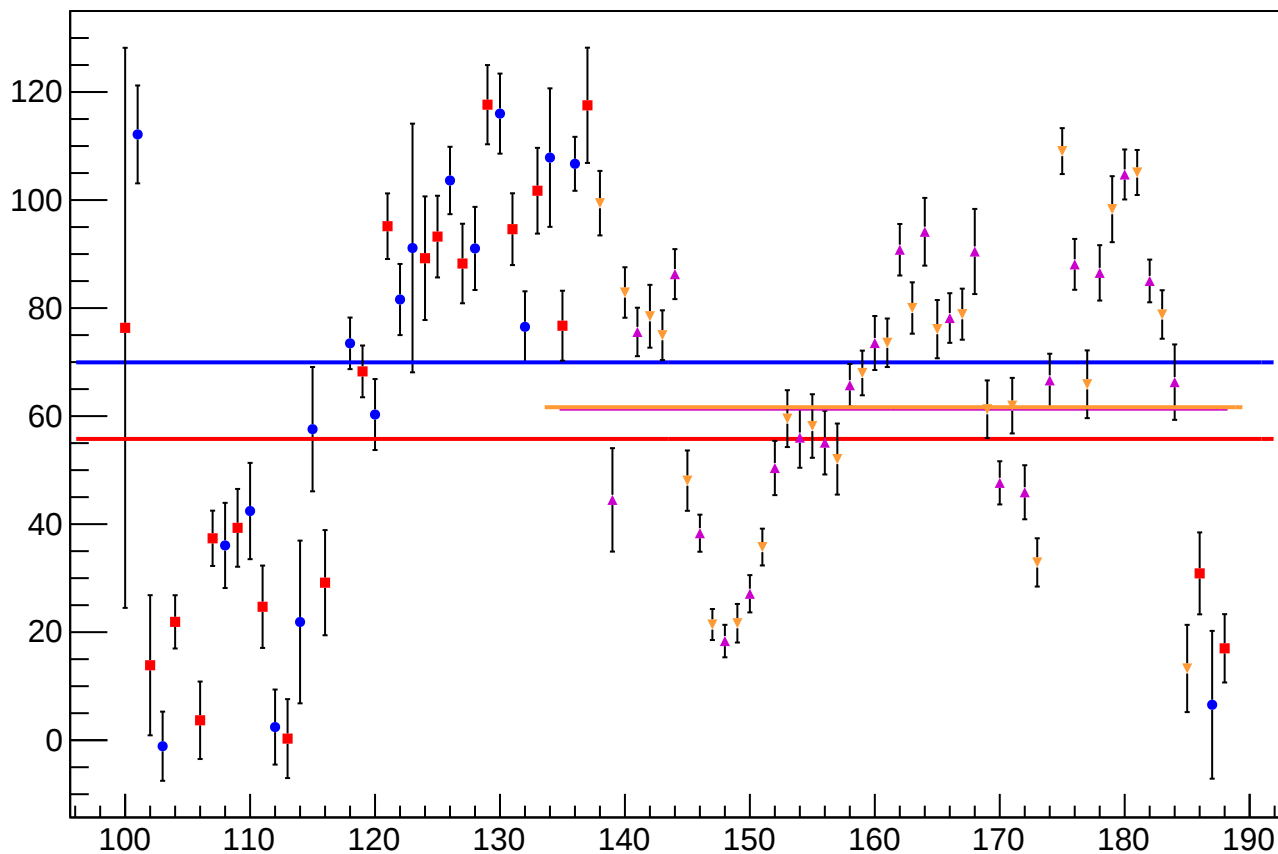
Right: 386.064 $\pm$ 1.311 χ^2 /NDF: 6847.5/38

In: 268.131 $\pm$ 0.996 χ^2 /NDF: 7799.3/40

Out: 290.513 $\pm$ 0.890 χ^2 /NDF: 12299.7/45

All: 280.574 $\pm$ 0.663 χ^2 /NDF: 20380.0/86

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 69.951 ± 1.753 $\chi^2/\text{NDF}: 445.9/17$

Left Out: 61.647 ± 0.936 $\chi^2/\text{NDF}: 871.5/24$

Right Out: 55.776 ± 1.548 $\chi^2/\text{NDF}: 543.0/20$

Left In: 61.375 ± 0.961 $\chi^2/\text{NDF}: 699.7/22$

Left: 61.515 ± 0.671 $\chi^2/\text{NDF}: 1571.3/47$

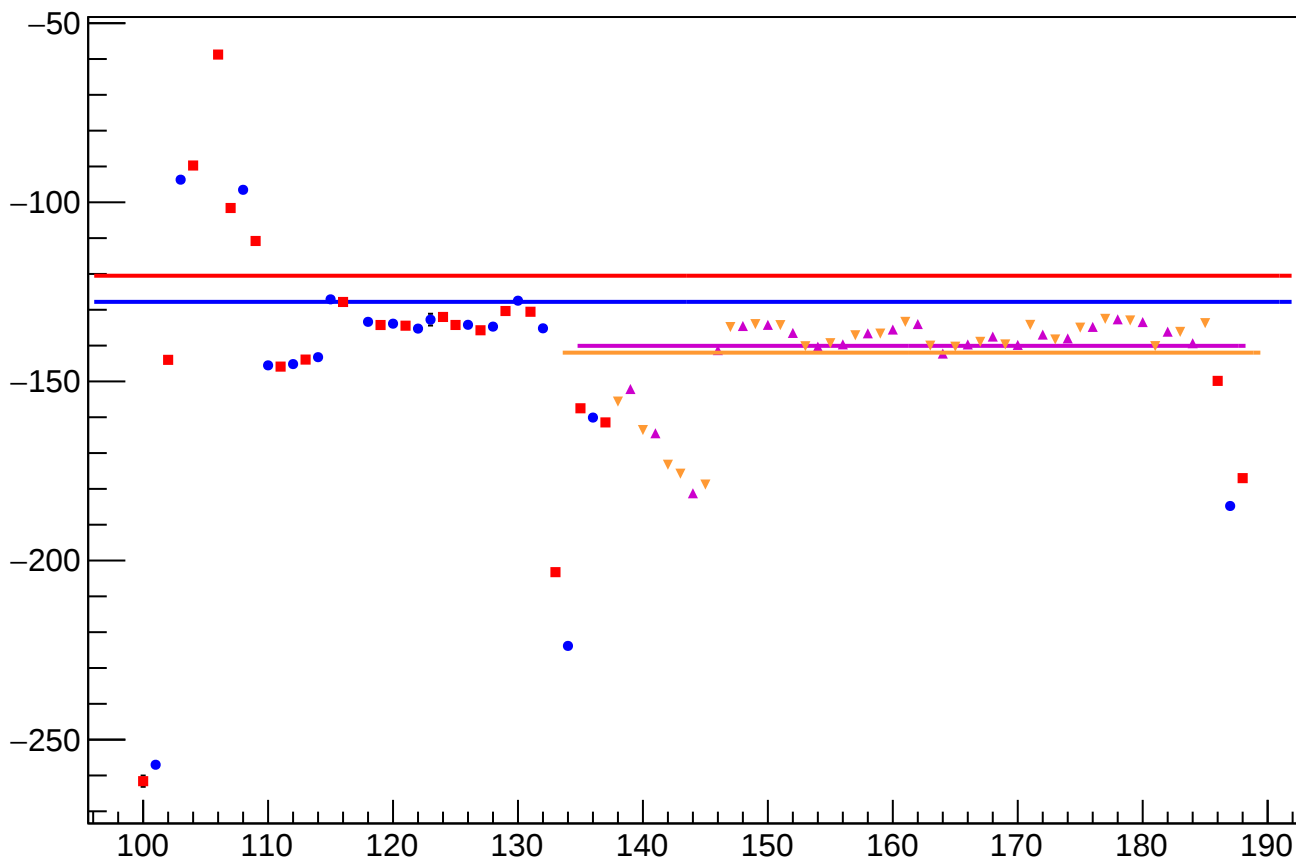
Right: 61.986 ± 1.161 $\chi^2/\text{NDF}: 1025.7/38$

In: 63.356 ± 0.843 $\chi^2/\text{NDF}: 1164.0/40$

Out: 60.075 ± 0.801 $\chi^2/\text{NDF}: 1425.1/45$

All: 61.633 ± 0.581 $\chi^2/\text{NDF}: 2597.0/86$

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -127.791 $\pm$ 0.089 χ^2 /NDF: 172455.1/17

Left Out: -141.969 $\pm$ 0.045 χ^2 /NDF: 80252.6/24

Right Out: -120.497 $\pm$ 0.080 χ^2 /NDF: 201617.7/20

Left In: -140.068 $\pm$ 0.045 χ^2 /NDF: 48030.7/22

Left: -141.025 $\pm$ 0.032 χ^2 /NDF: 129181.1/47

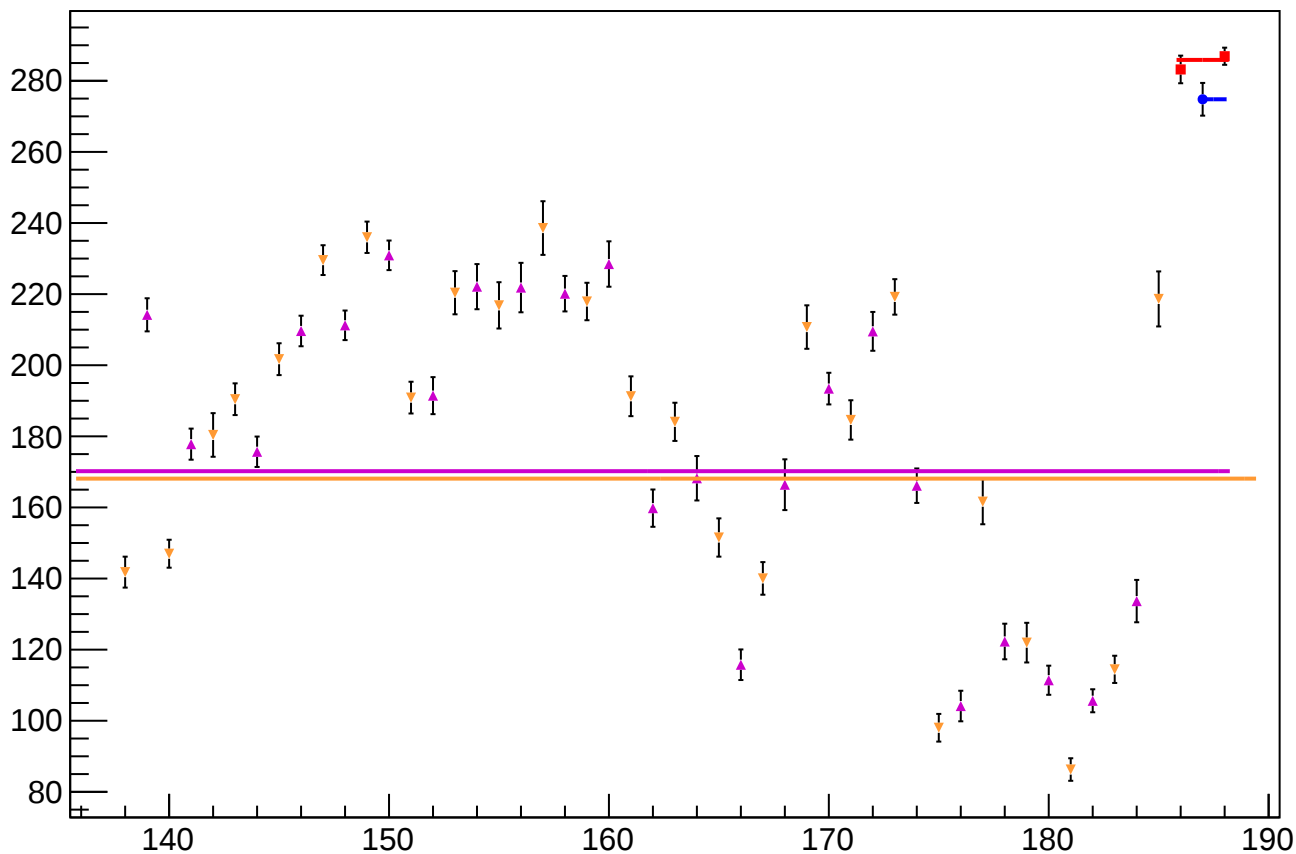
Right: -123.731 $\pm$ 0.059 χ^2 /NDF: 377788.1/38

In: -137.581 $\pm$ 0.040 χ^2 /NDF: 235566.8/40

Out: -136.829 $\pm$ 0.039 χ^2 /NDF: 337100.6/45

All: -137.194 $\pm$ 0.028 χ^2 /NDF: 572847.4/86

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 274.804 $\pm$ 4.602 χ^2 /NDF: 0.0/0
 Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24
 Right Out: 285.879 $\pm$ 2.048 χ^2 /NDF: 0.7/1
 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

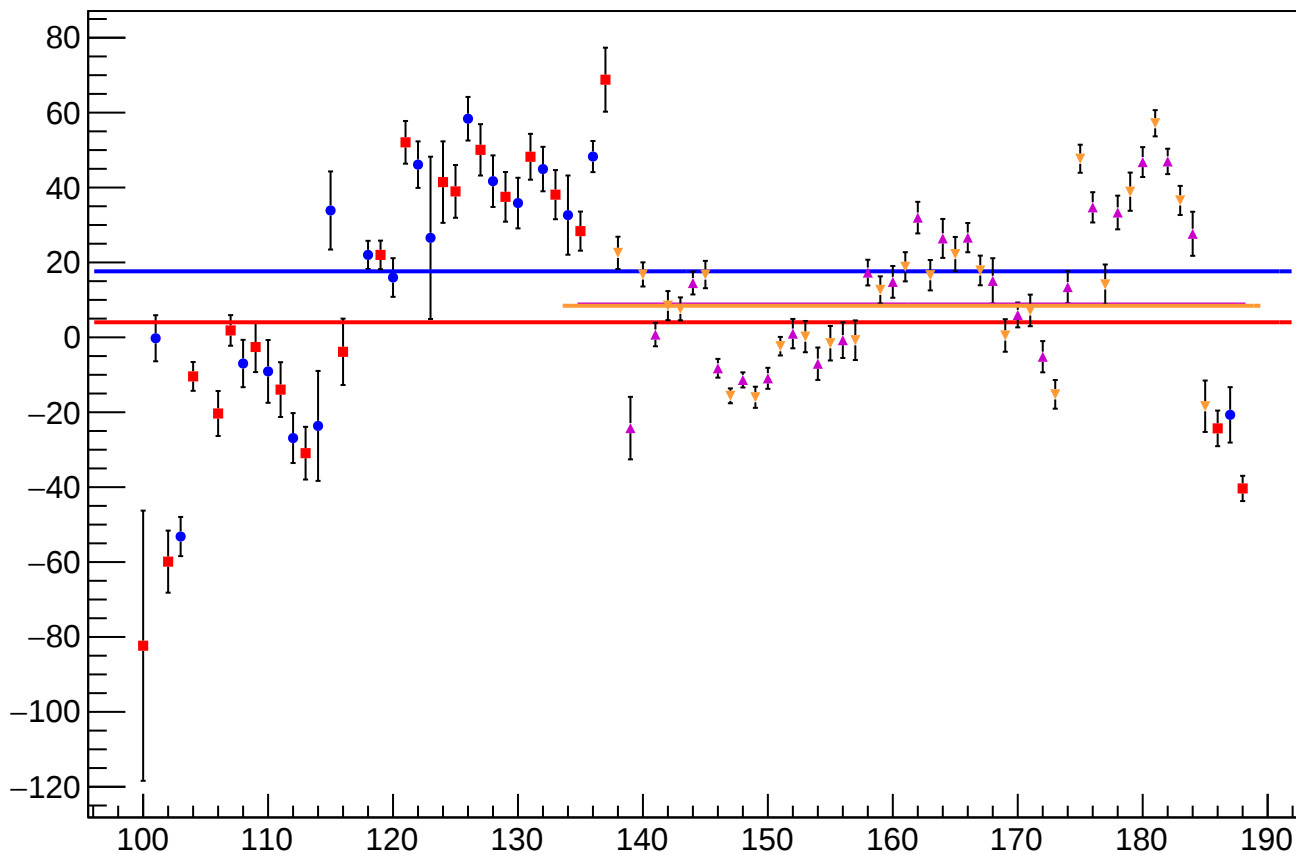
Right: 284.048 $\pm$ 1.871 χ^2 /NDF: 5.5/2

In: 174.873 $\pm$ 0.973 χ^2 /NDF:2518.1/23

Out: 189.687 $\pm$ 0.877 χ^2 /NDF:5169.5/26

All: 183.047 $\pm$ 0.651 χ^2 /NDF: 7815.5/50

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.629 ± 1.473 $\chi^2/\text{NDF}: 467.4/17$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: 4.024 ± 1.241 $\chi^2/\text{NDF}: 695.8/20$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

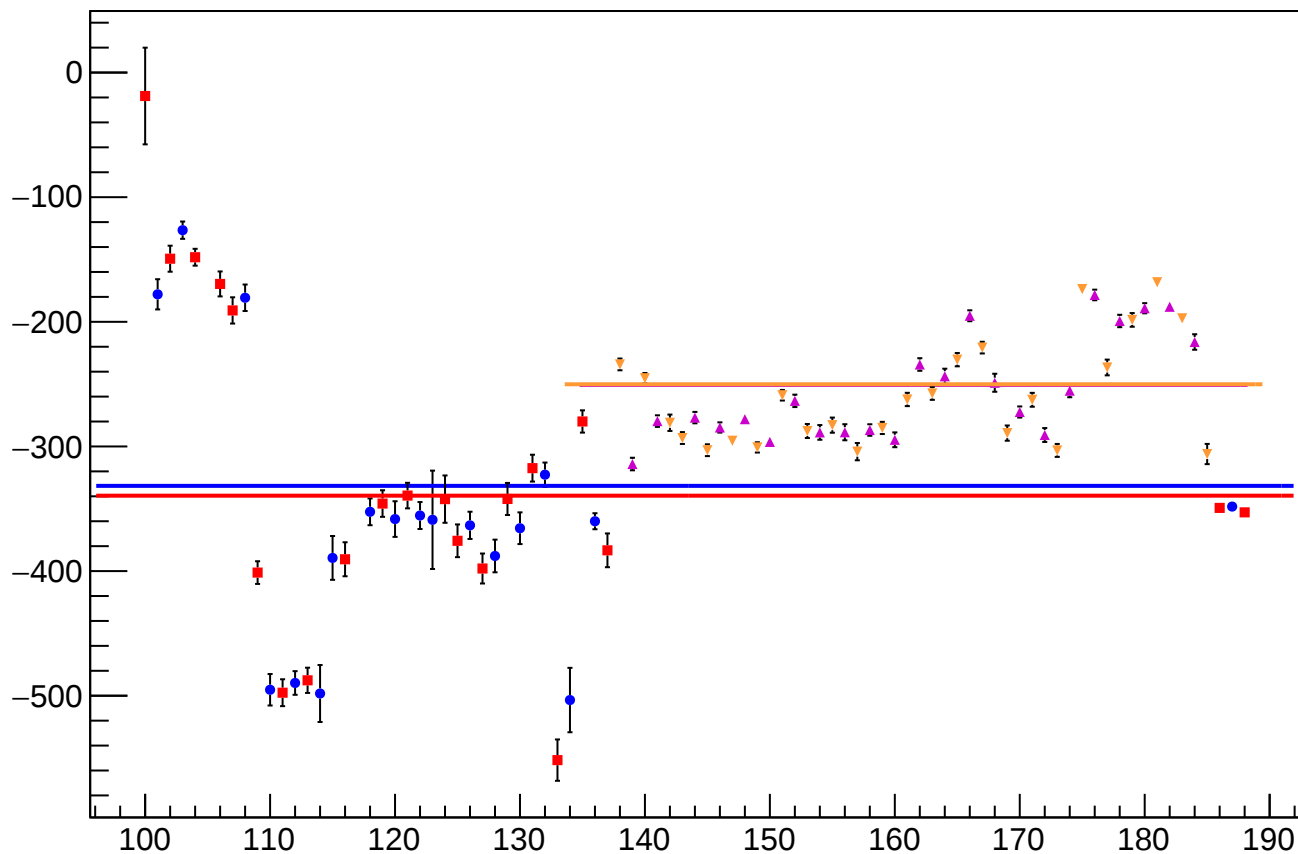
Right: 9.674 ± 0.949 $\chi^2/\text{NDF}: 1213.1/38$

In: 10.625 ± 0.674 $\chi^2/\text{NDF}: 1122.8/40$

Out: 7.307 ± 0.628 $\chi^2/\text{NDF}: 1457.3/45$

All: 8.848 ± 0.460 $\chi^2/\text{NDF}: 2593.0/86$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -331.617 $\pm$ 2.191 χ^2 /NDF: 1875.9/17

Left Out: -250.119 $\pm$ 0.972 χ^2 /NDF:2246.9/24

Right Out: -339.494 $\pm$ 1.376 χ^2 /NDF: 2490.7/20

Left In: -250.628 $\pm$ 0.990 χ^2 /NDF:1937.1/22

Left: -250.369 $\pm$ 0.694 χ^2 /NDF: 4184.2/47

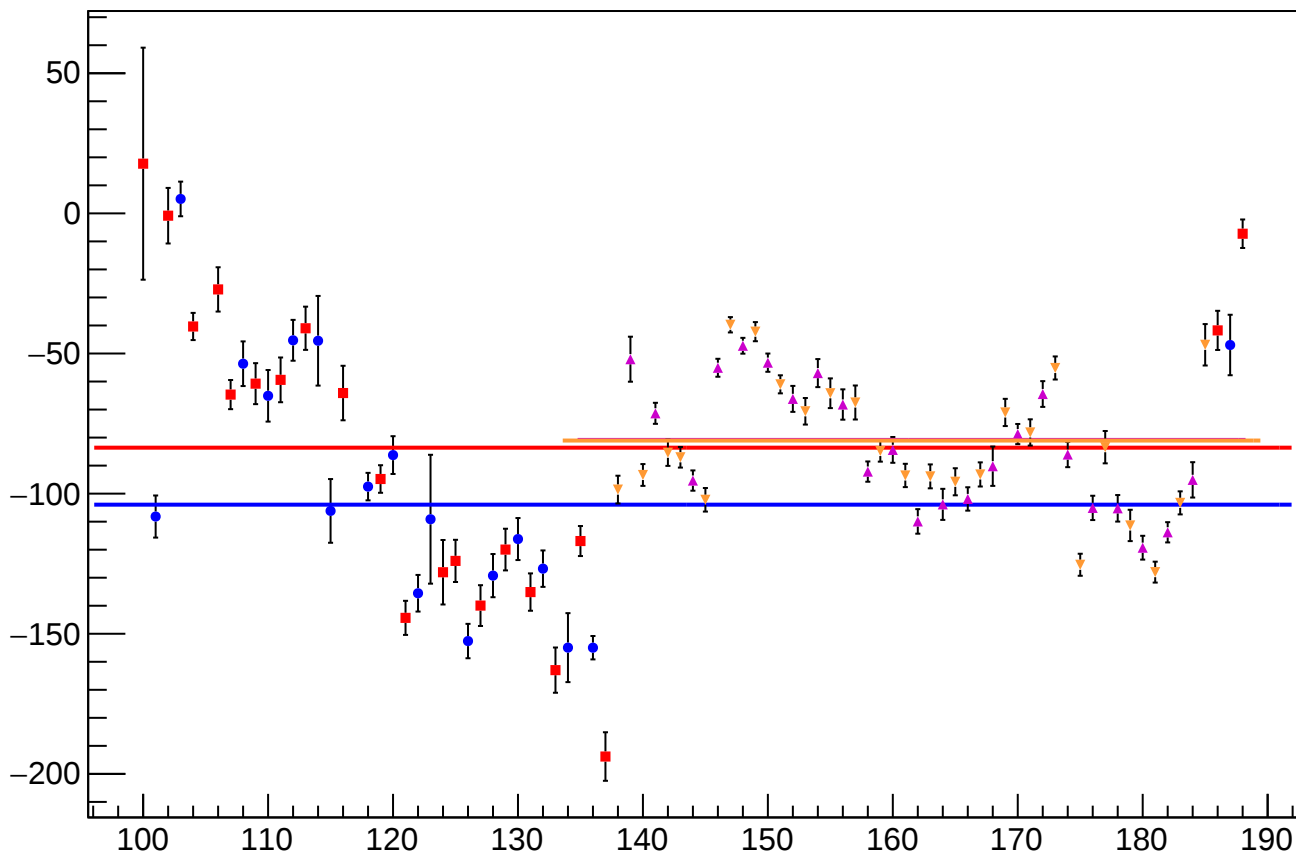
Right: -337.265 $\pm$ 1.165 χ^2 /NDF: 4375.9/38

In: -264.371 $\pm$ 0.902 χ^2 /NDF:4947.8/40

Out: -279.876 $\pm$ 0.794 χ^2 /NDF:7550.9/45

All: -273.109 $\pm$ 0.596 χ^2 /NDF: 12665.0/86

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -103.936 ± 1.694 χ^2/NDF : 763.3/17

Left Out: -81.057 ± 0.843 χ^2/NDF : 913.0/24

Right Out: -83.600 ± 1.501 χ^2/NDF : 1123.8/20

Left In: -80.834 ± 0.872 χ^2/NDF : 693.1/22

Left: -80.949 ± 0.606 χ^2/NDF : 1606.2/47

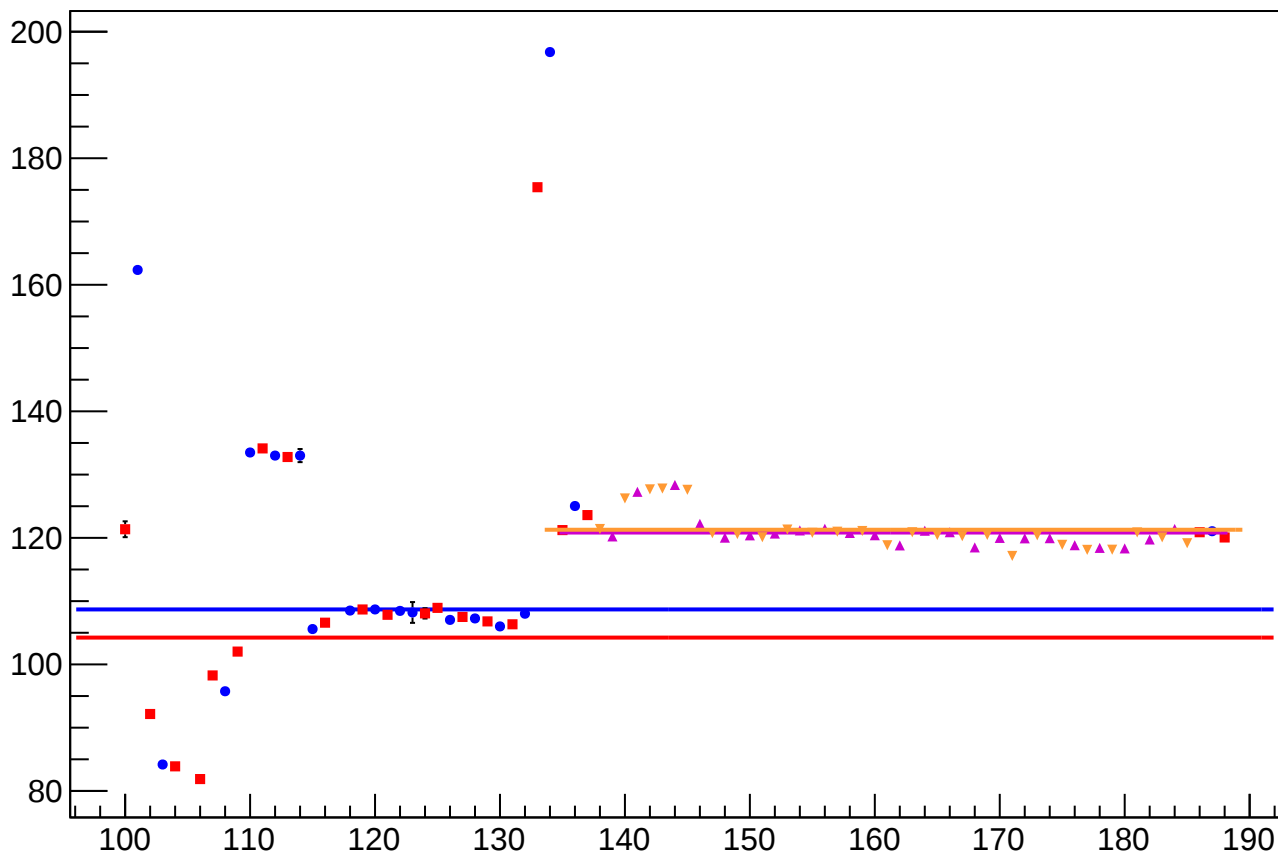
Right: -92.544 ± 1.124 χ^2/NDF : 1967.8/38

In: -85.670 ± 0.775 χ^2/NDF : 1603.4/40

Out: -81.667 ± 0.735 χ^2/NDF : 2039.0/45

All: -83.562 ± 0.533 χ^2/NDF : 3656.4/86

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 108.689 $\pm$ 0.084 χ^2 /NDF: 73678.5/17

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 104.238 $\pm$ 0.076 χ^2 /NDF: 57819.1/20

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

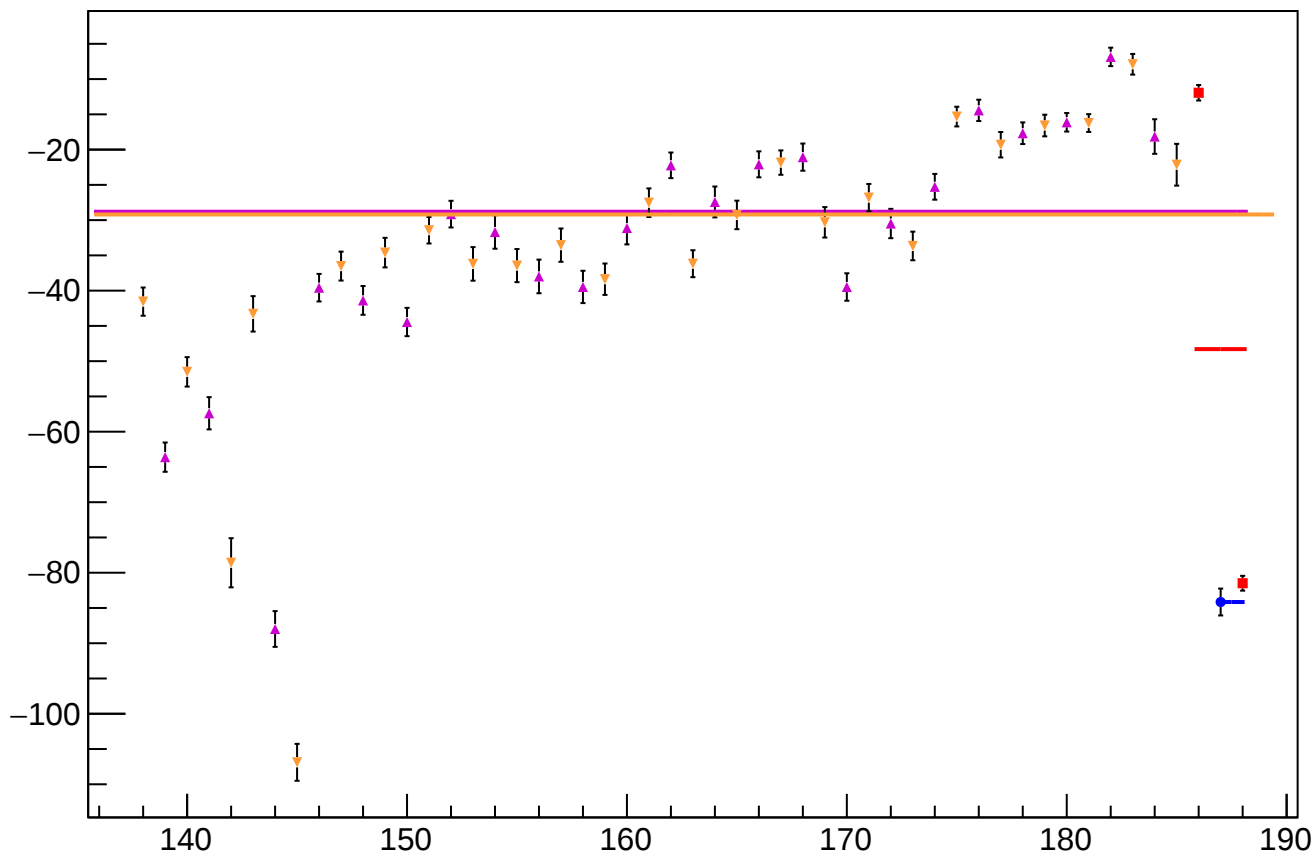
Right: 106.223 $\pm$ 0.056 χ^2 /NDF: 133042.9/38

In: 118.545 $\pm$ 0.037 χ^2 /NDF: 93916.1/40

Out: 117.542 $\pm$ 0.035 χ^2 /NDF: 102407.8/45

All: 118.026 $\pm$ 0.025 χ^2 /NDF: 196710.7/86

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -84.155 ± 1.906 $\chi^2/\text{NDF}: 0.0/0$

Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$

Right Out: -48.292 ± 0.759 $\chi^2/\text{NDF}: 2097.3/1$

Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$

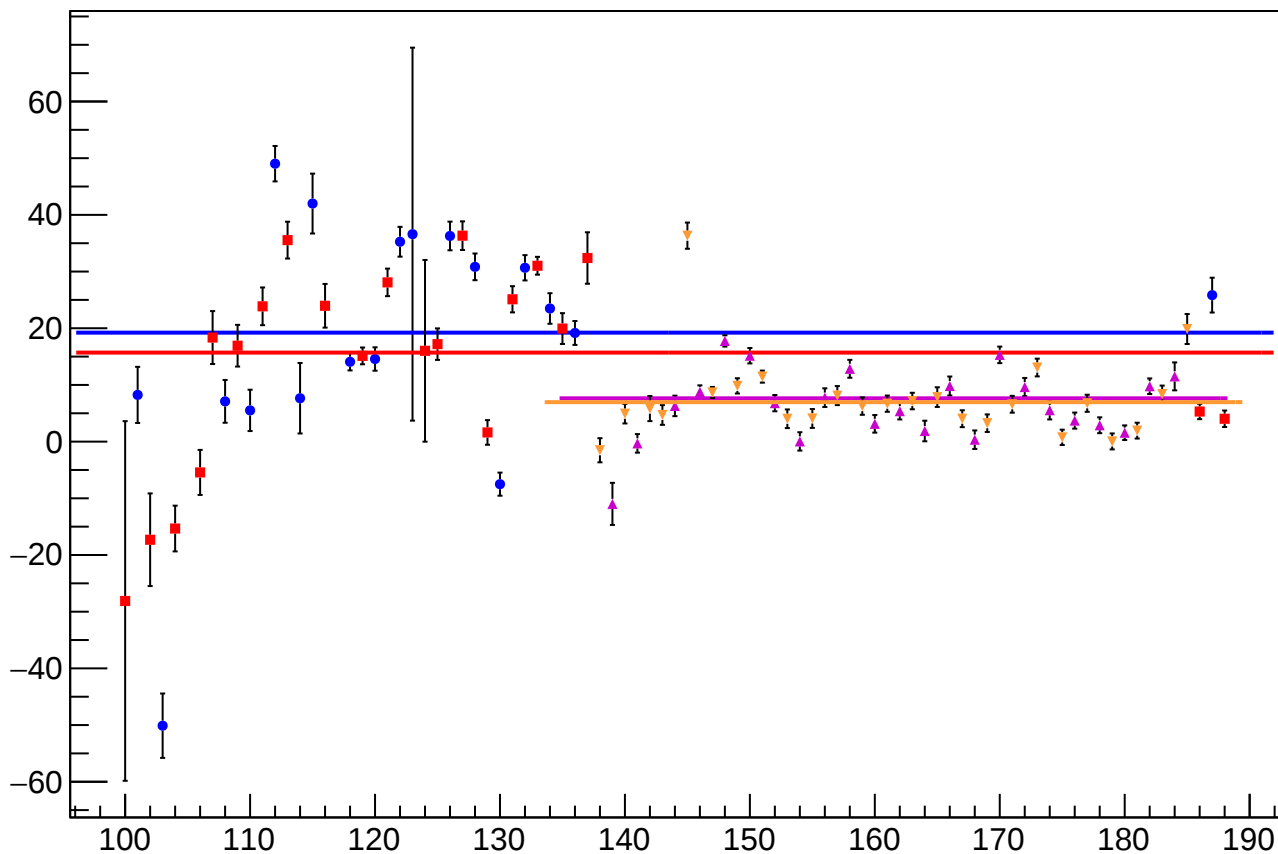
Right: -53.197 ± 0.705 $\chi^2/\text{NDF}: 2403.0/2$

In: -31.093 ± 0.387 $\chi^2/\text{NDF}: 2572.4/23$

Out: -33.167 ± 0.346 $\chi^2/\text{NDF}: 4480.6/26$

All: -32.246 ± 0.258 $\chi^2/\text{NDF}: 7069.0/50$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 19.224 ± 0.640 χ^2/NDF : 621.0/17

Left Out: 6.960 ± 0.303 χ^2/NDF : 321.3/24

Right Out: 15.704 ± 0.539 χ^2/NDF : 540.8/20

Left In: 7.638 ± 0.313 χ^2/NDF : 337.7/22

Left: 7.287 ± 0.218 χ^2/NDF : 661.5/47

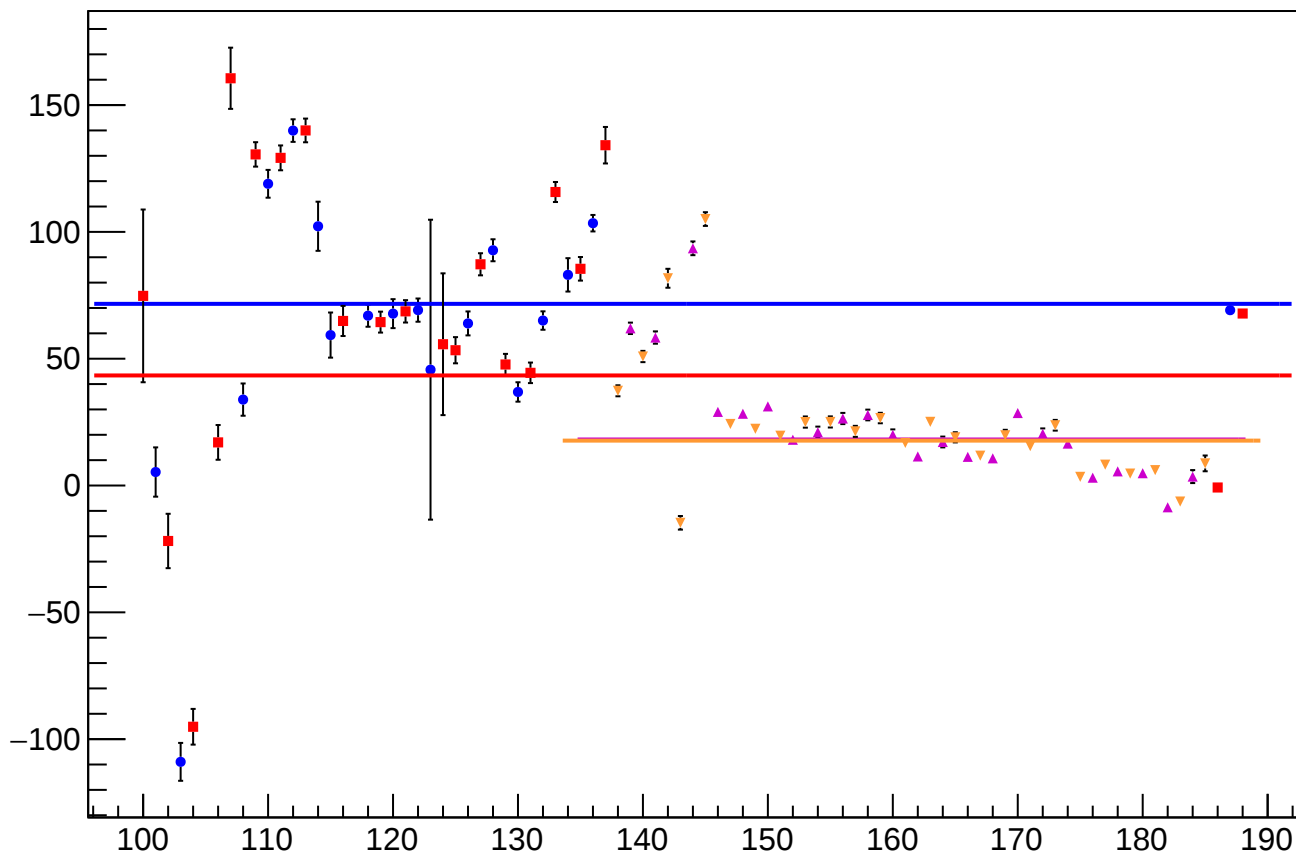
Right: 17.166 ± 0.412 χ^2/NDF : 1179.5/38

In: 9.882 ± 0.282 χ^2/NDF : 1223.3/40

Out: 9.058 ± 0.264 χ^2/NDF : 1062.0/45

All: 9.444 ± 0.193 χ^2/NDF : 2289.8/86

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 71.627 $\pm$ 0.971 χ^2 /NDF: 1203.9/17

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 43.398 $\pm$ 0.545 χ^2 /NDF: 5717.2/20

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

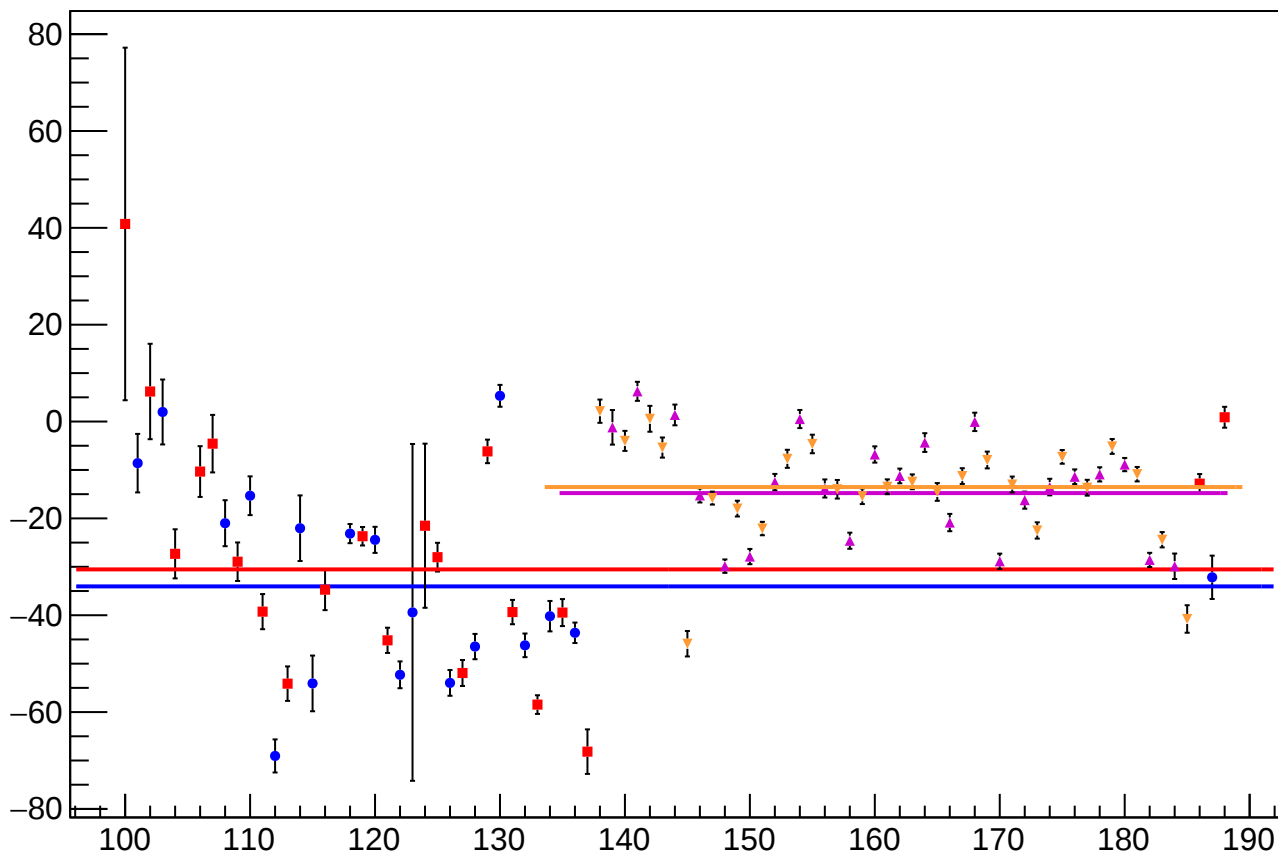
Right: 50.160 $\pm$ 0.475 χ^2 /NDF: 7563.2/38

In: 25.657 $\pm$ 0.364 χ^2 /NDF:6148.1/40

Out: 26.319 $\pm$ 0.316 χ^2 /NDF:9625.5/45

All: 26.035 $\pm$ 0.238 χ^2 /NDF: 15775.5/86

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.045 ± 0.736 χ^2/NDF : 715.0/17

Left Out: -13.531 ± 0.344 χ^2/NDF : 572.8/24

Right Out: -30.536 ± 0.658 χ^2/NDF : 904.6/20

Left In: -14.778 ± 0.354 χ^2/NDF : 838.0/22

Left: -14.136 ± 0.247 χ^2/NDF : 1417.2/47

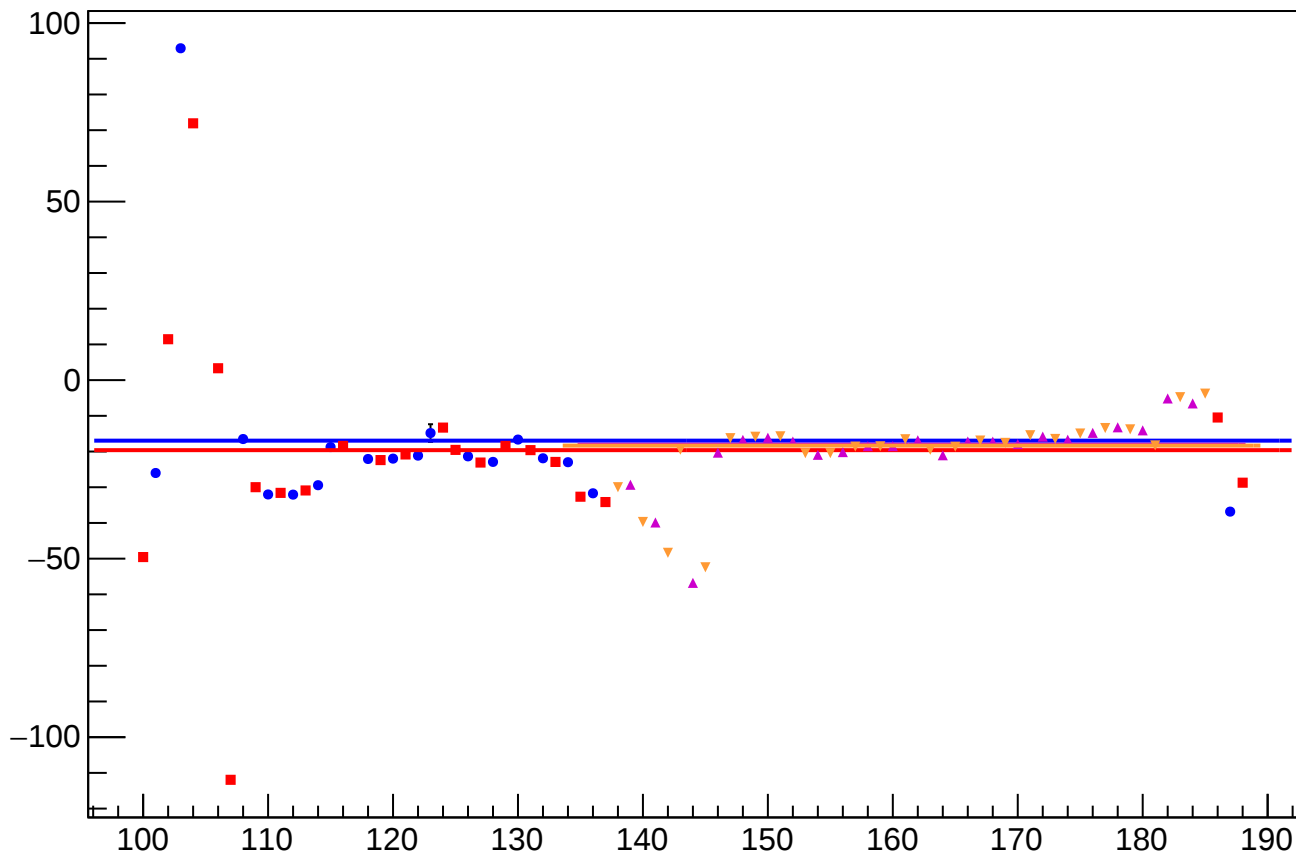
Right: -32.094 ± 0.491 χ^2/NDF : 1632.3/38

In: -18.399 ± 0.319 χ^2/NDF : 2109.4/40

Out: -17.183 ± 0.305 χ^2/NDF : 2002.1/45

All: -17.763 ± 0.220 χ^2/NDF : 4119.1/86

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -16.951 ± 0.044 $\chi^2/\text{NDF}: 480489.6/17$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -19.614 ± 0.040 $\chi^2/\text{NDF}: 445635.8/20$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

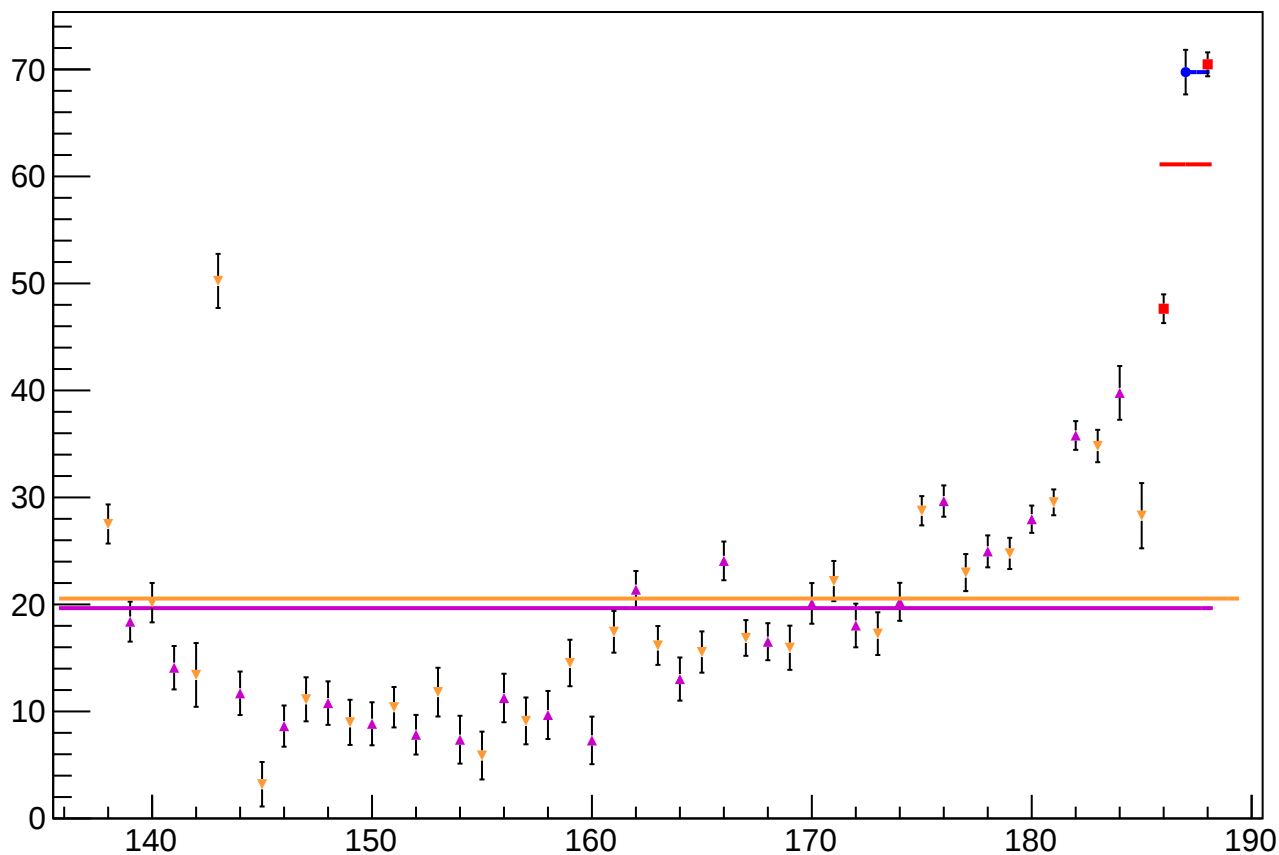
Right: -18.410 ± 0.030 $\chi^2/\text{NDF}: 928130.0/38$

In: -17.950 ± 0.015 $\chi^2/\text{NDF}: 723022.4/40$

Out: -18.508 ± 0.015 $\chi^2/\text{NDF}: 730673.3/45$

All: -18.236 ± 0.011 $\chi^2/\text{NDF}: 1454394.5/86$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 69.747 $\pm$ 2.082 χ^2 /NDF: 0.0/0

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF:626.4/24

Right Out: 61.127 $\pm$ 0.859 χ^2 /NDF: 170.7/1

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

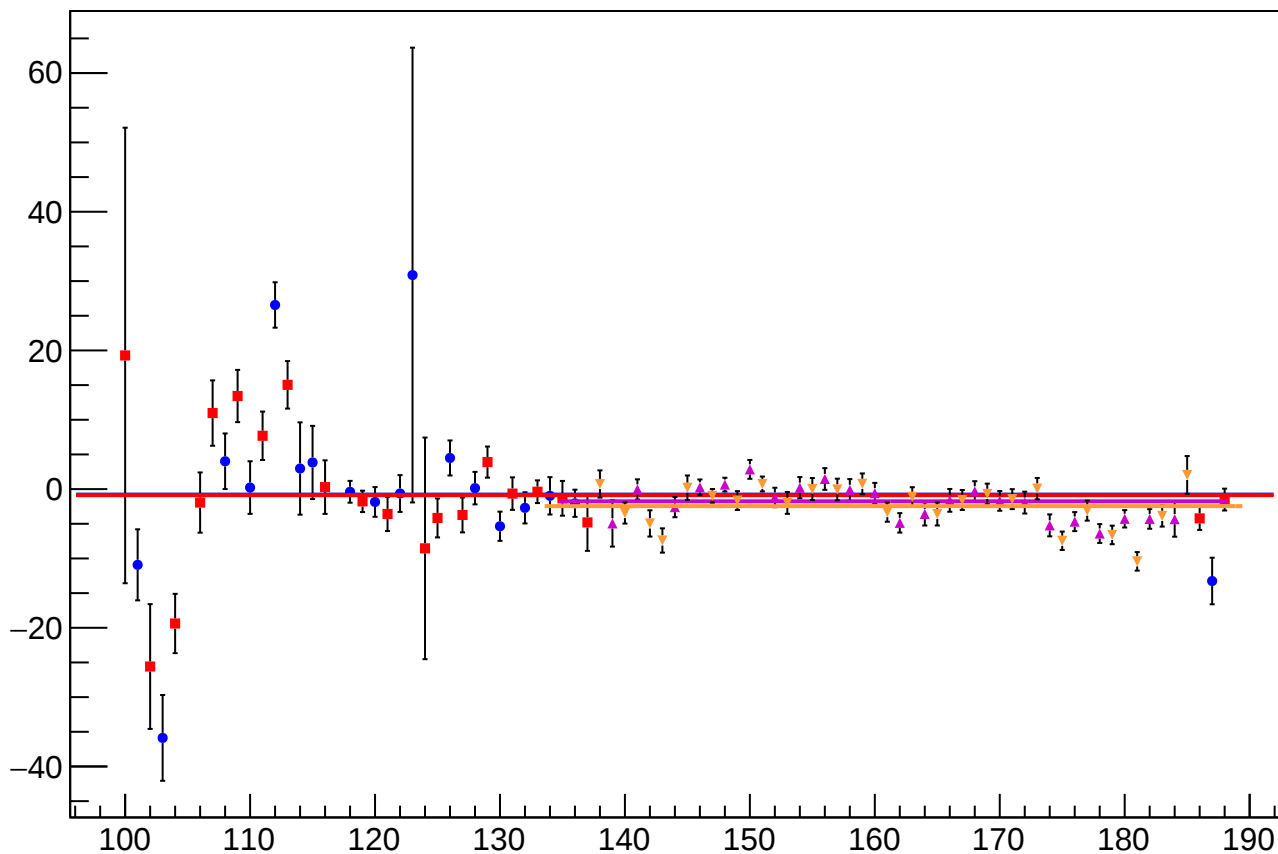
Right: 62.381 $\pm$ 0.794 χ^2 /NDF: 185.4/2

In: 21.273 $\pm$ 0.374 χ^2 /NDF:1131.7/23

Out: 26.983 $\pm$ 0.342 χ^2 /NDF:2672.6/26

All: 24.383 $\pm$ 0.253 χ^2 /NDF: 3931.1/50

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.796 ± 0.651 χ^2/NDF : 133.9/17

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -0.872 ± 0.570 χ^2/NDF : 89.4/20

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

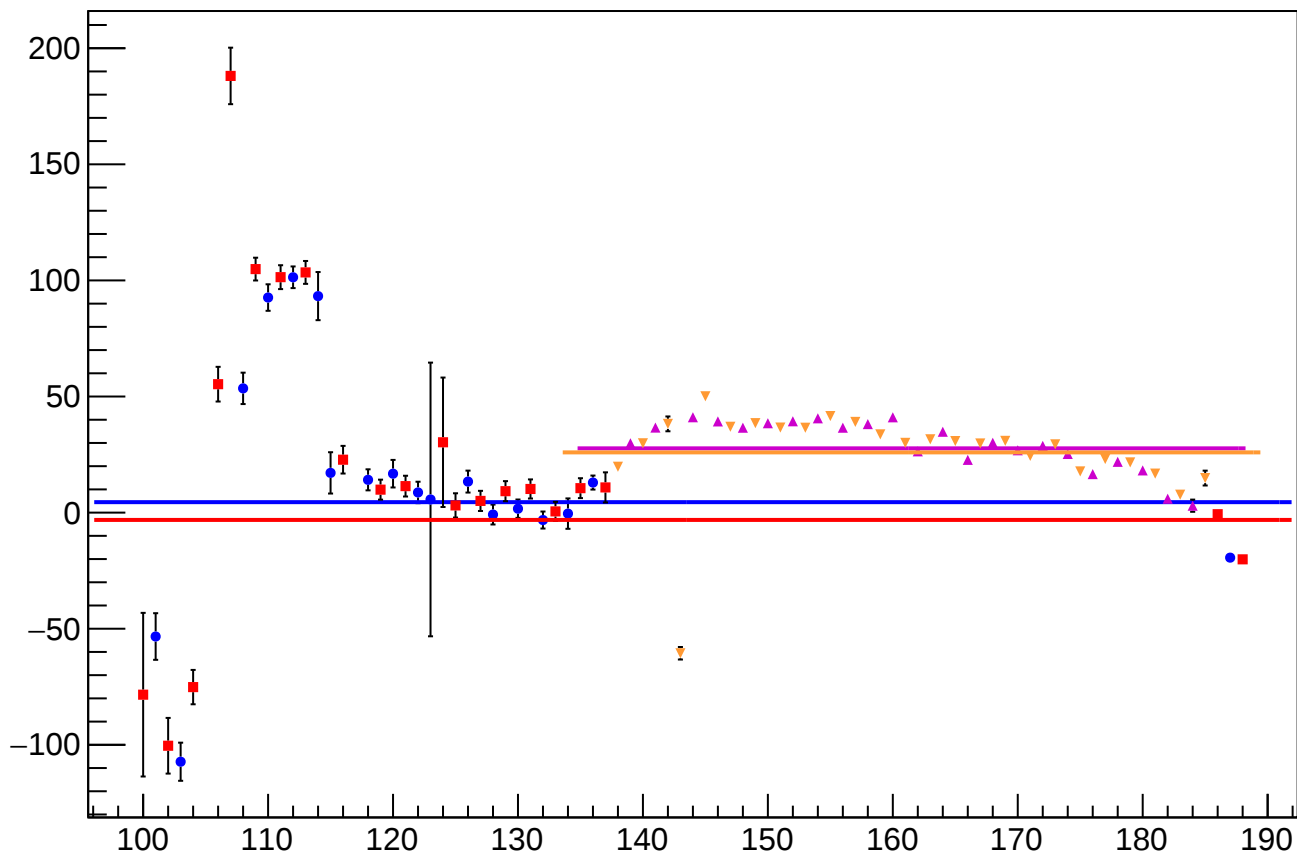
Right: -0.839 ± 0.429 χ^2/NDF : 223.3/38

In: -1.587 ± 0.274 χ^2/NDF : 203.1/40

Out: -2.125 ± 0.260 χ^2/NDF : 201.4/45

All: -1.870 ± 0.189 χ^2/NDF : 406.6/86

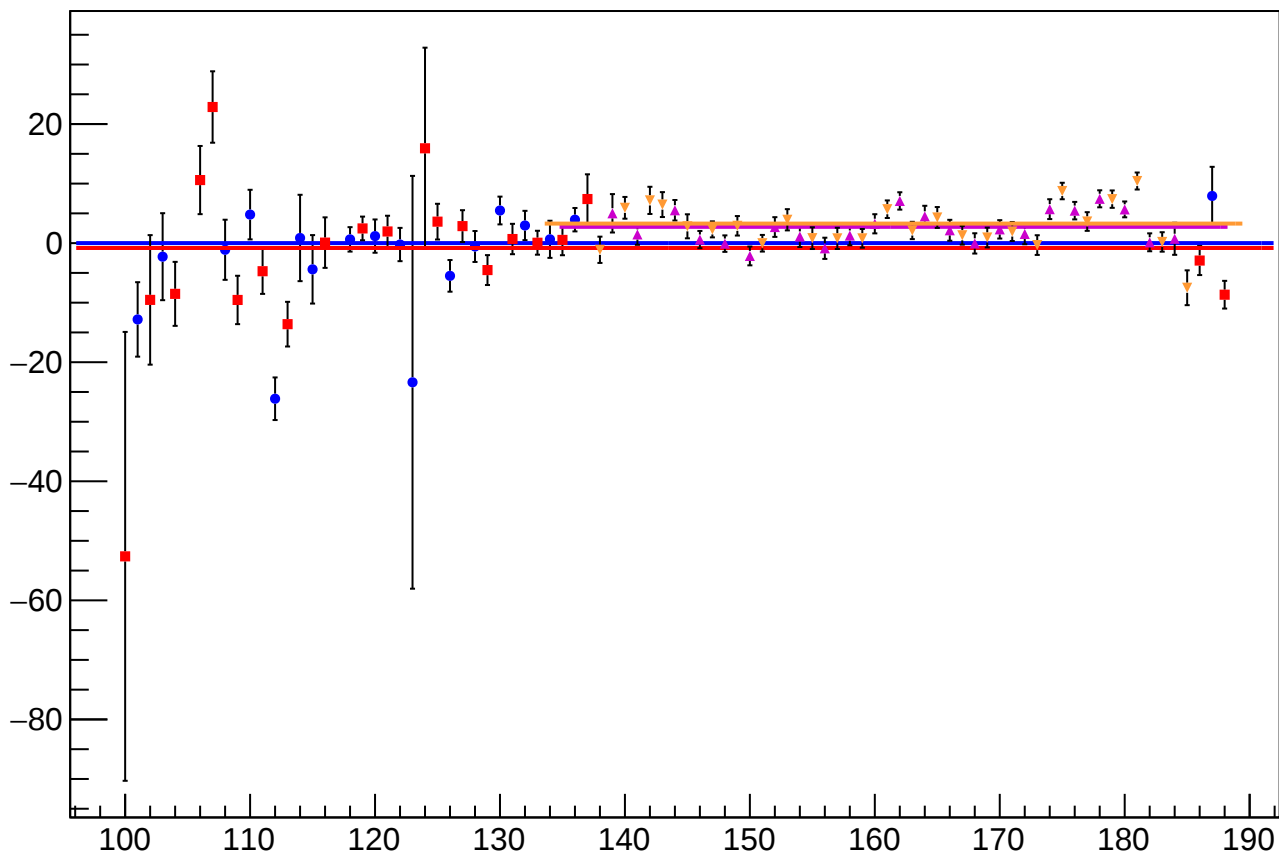
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.506 ± 1.009 $\chi^2/\text{NDF}: 1239.2/17$
 Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$
 Right Out: -3.146 ± 0.604 $\chi^2/\text{NDF}: 2279.0/20$
 Left In: 27.677 ± 0.378 $\chi^2/\text{NDF}: 803.9/22$

Left: 26.794 ± 0.265 $\chi^2/\text{NDF}: 2526.2/47$
 Right: -1.125 ± 0.518 $\chi^2/\text{NDF}: 3560.6/38$
 In: 24.822 ± 0.354 $\chi^2/\text{NDF}: 2505.6/40$
 Out: 17.936 ± 0.317 $\chi^2/\text{NDF}: 5669.4/45$
 All: 20.999 ± 0.236 $\chi^2/\text{NDF}: 8384.8/86$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.005 ± 0.744 χ^2/NDF : 78.3/17

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -0.813 ± 0.685 χ^2/NDF : 69.4/20

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

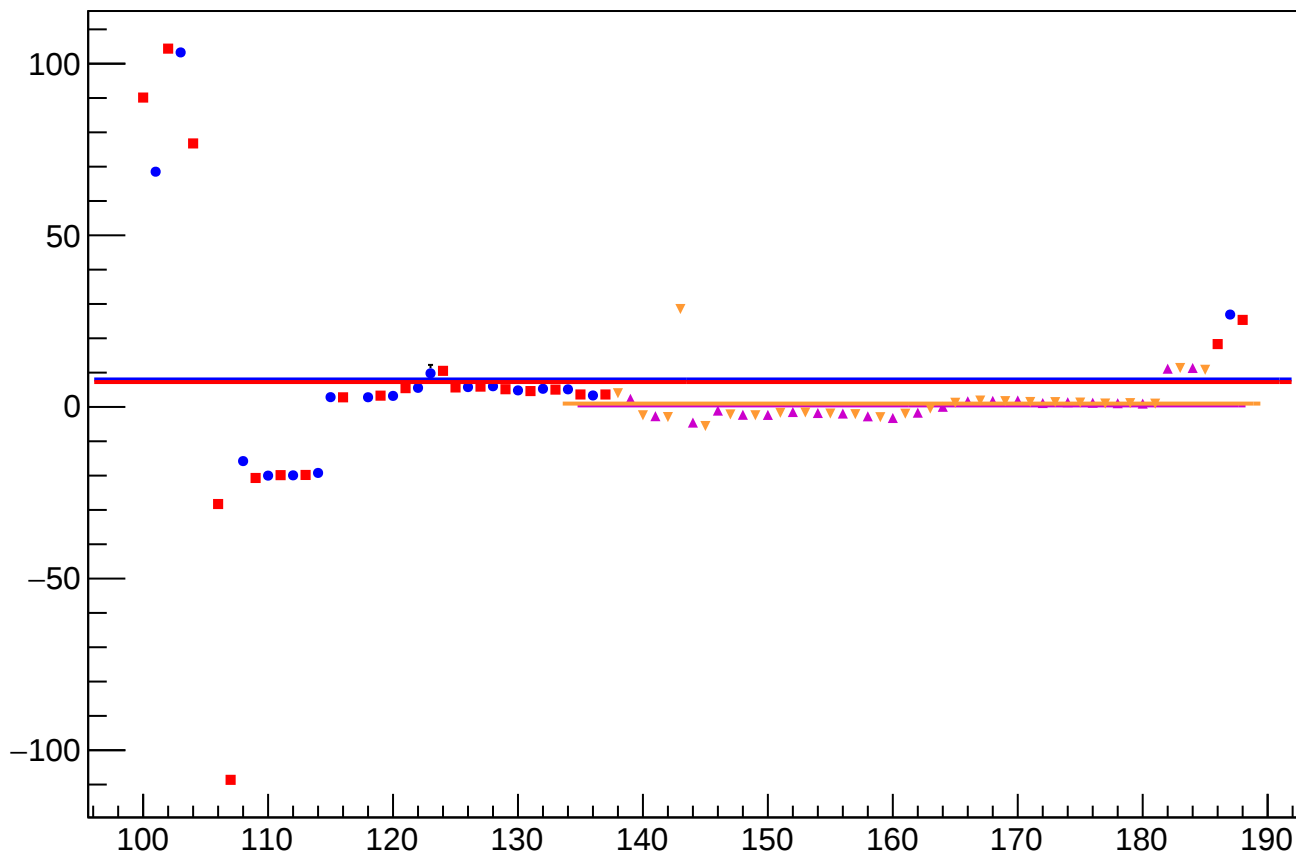
Right: -0.438 ± 0.504 χ^2/NDF : 148.4/38

In: 2.263 ± 0.310 χ^2/NDF : 154.0/40

Out: 2.506 ± 0.298 χ^2/NDF : 200.6/45

All: 2.389 ± 0.215 χ^2/NDF : 354.9/86

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 8.004 ± 0.044 $\chi^2/\text{NDF}: 360647.5/17$

Left Out: 0.979 ± 0.015 $\chi^2/\text{NDF}: 117391.3/24$

Right Out: 7.254 ± 0.041 $\chi^2/\text{NDF}: 547282.5/20$

Left In: 0.451 ± 0.015 $\chi^2/\text{NDF}: 50699.8/22$

Left: 0.719 ± 0.011 $\chi^2/\text{NDF}: 168685.3/47$

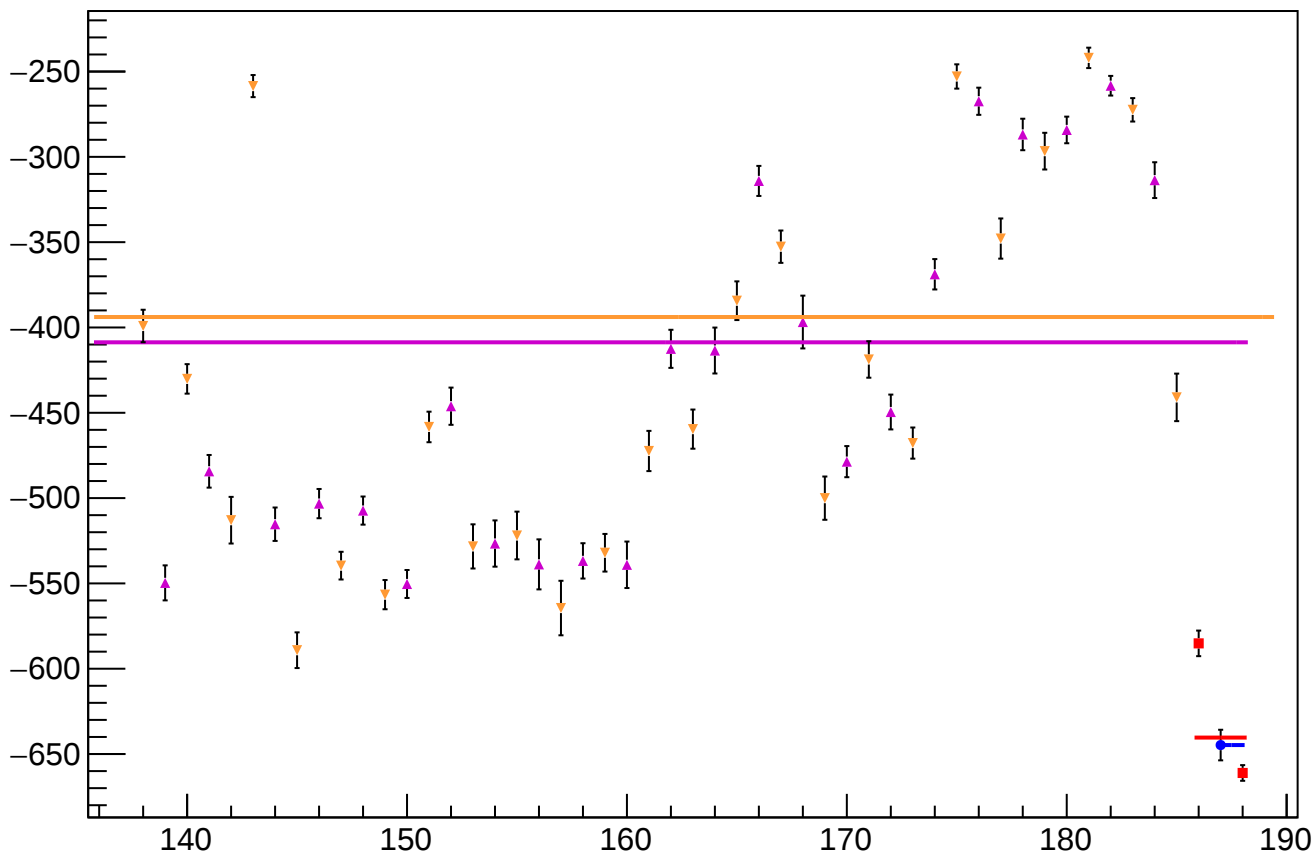
Right: 7.603 ± 0.030 $\chi^2/\text{NDF}: 908084.7/38$

In: 1.275 ± 0.015 $\chi^2/\text{NDF}: 437475.0/40$

Out: 1.733 ± 0.014 $\chi^2/\text{NDF}: 685167.8/45$

All: 1.509 ± 0.010 $\chi^2/\text{NDF}: 1123147.6/86$

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -644.742 $\pm$ 8.964 χ^2 /NDF: 0.0/0

Left Out: -393.871 $\pm$ 1.897 χ^2 /NDF:3772.8/24

Right Out: -640.360 $\pm$ 3.917 χ^2 /NDF: 74.6/1

Left In: -408.696 $\pm$ 1.979 χ^2 /NDF:3062.9/22

Left: -400.970 $\pm$ 1.369 χ^2 /NDF: 6864.9/47

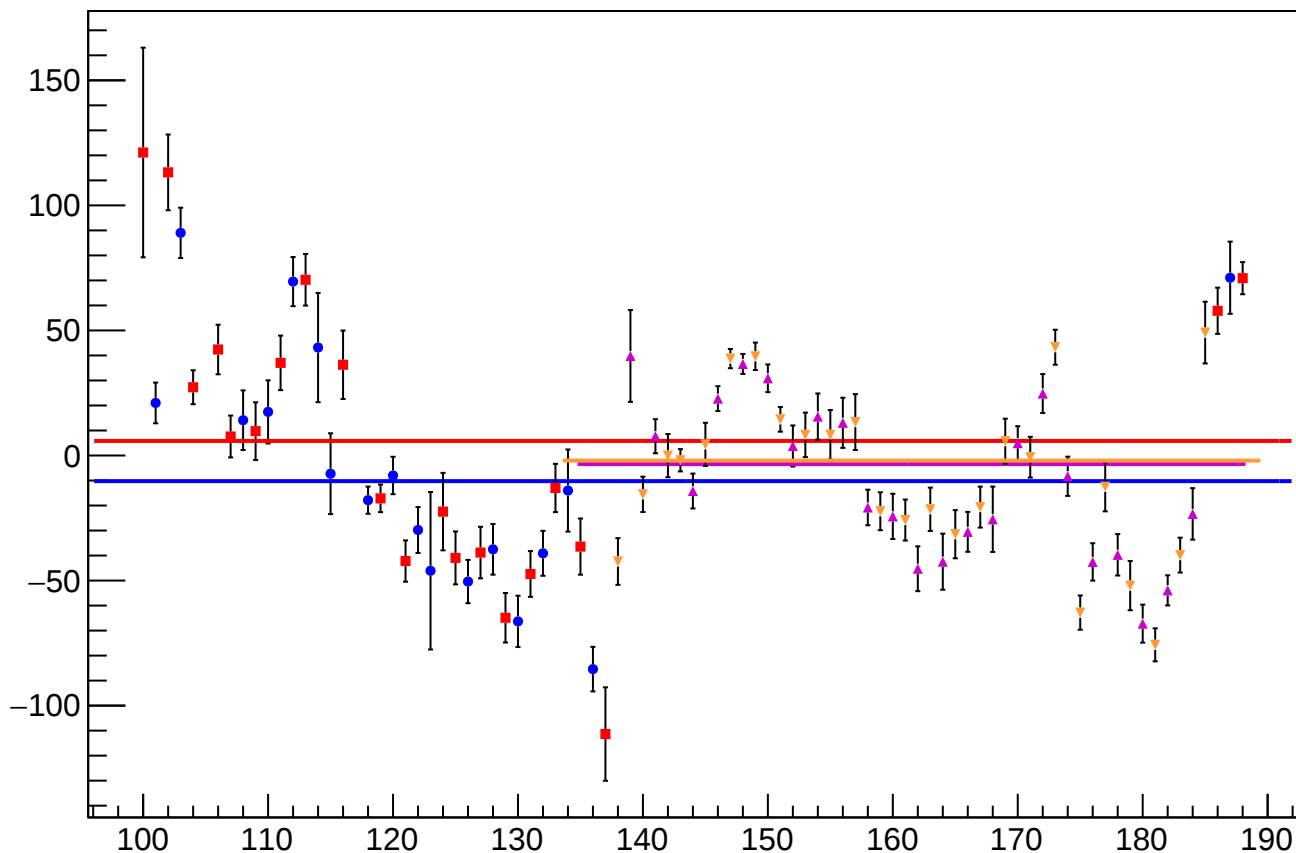
Right: -641.063 $\pm$ 3.589 χ^2 /NDF: 74.8/2

In: -419.665 $\pm$ 1.932 χ^2 /NDF:3724.0/23

Out: -440.700 $\pm$ 1.707 χ^2 /NDF:7055.0/26

All: -431.479 $\pm$ 1.279 χ^2 /NDF: 10845.5/50

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -10.245 ± 2.322 $\chi^2/\text{NDF}: 373.2/17$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 5.833 ± 2.078 $\chi^2/\text{NDF}: 503.0/20$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

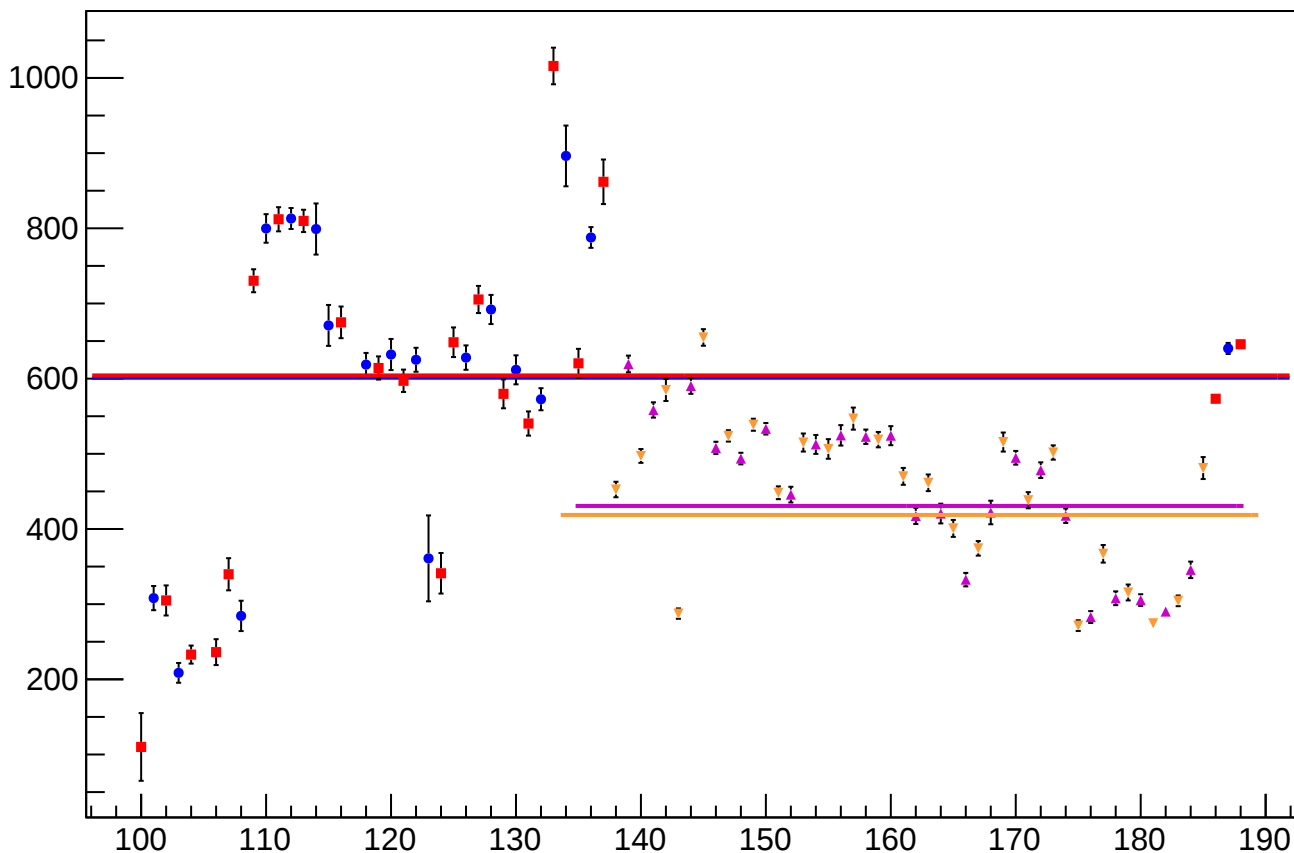
Right: -1.317 ± 1.549 $\chi^2/\text{NDF}: 902.8/38$

In: -5.467 ± 1.272 $\chi^2/\text{NDF}: 830.2/40$

Out: 0.478 ± 1.175 $\chi^2/\text{NDF}: 1076.5/45$

All: -2.259 ± 0.863 $\chi^2/\text{NDF}: 1918.5/86$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 601.264 $\pm$ 3.753 χ^2 /NDF: 2164.8/17

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 604.287 $\pm$ 2.503 χ^2 /NDF: 3017.0/20

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

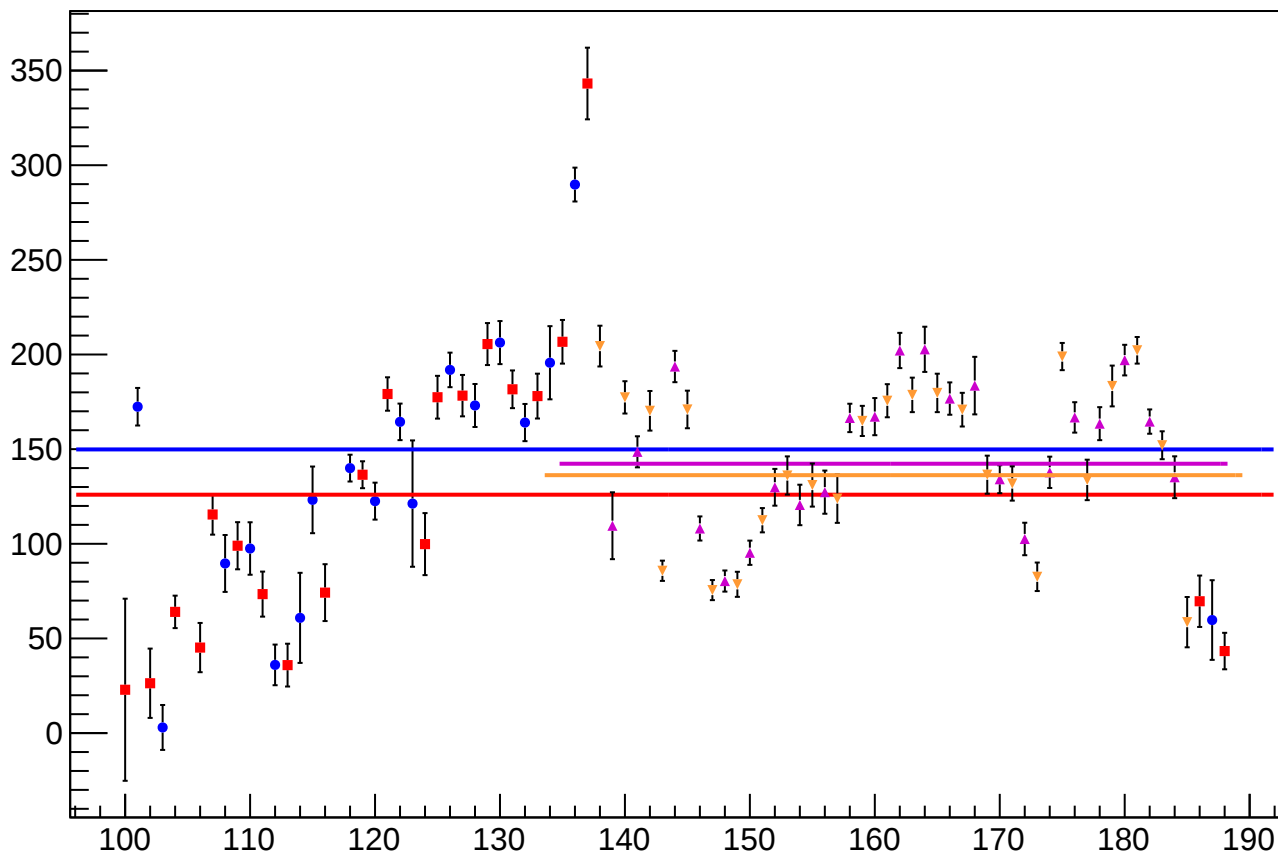
Right: 603.356 $\pm$ 2.082 χ^2 /NDF: 5182.3/38

In: 467.523 $\pm$ 1.745 χ^2 /NDF:6635.8/40

Out: 486.753 $\pm$ 1.516 χ^2 /NDF:9795.5/45

All: 478.481 $\pm$ 1.144 χ^2 /NDF: 16500.5/86

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 149.858 $\pm$ 2.693 χ^2 /NDF: 650.9/17

Left Out: 136.258 $\pm$ 1.651 χ^2 /NDF:758.3/24

Right Out: 125.944 $\pm$ 2.485 χ^2 /NDF: 683.4/20

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

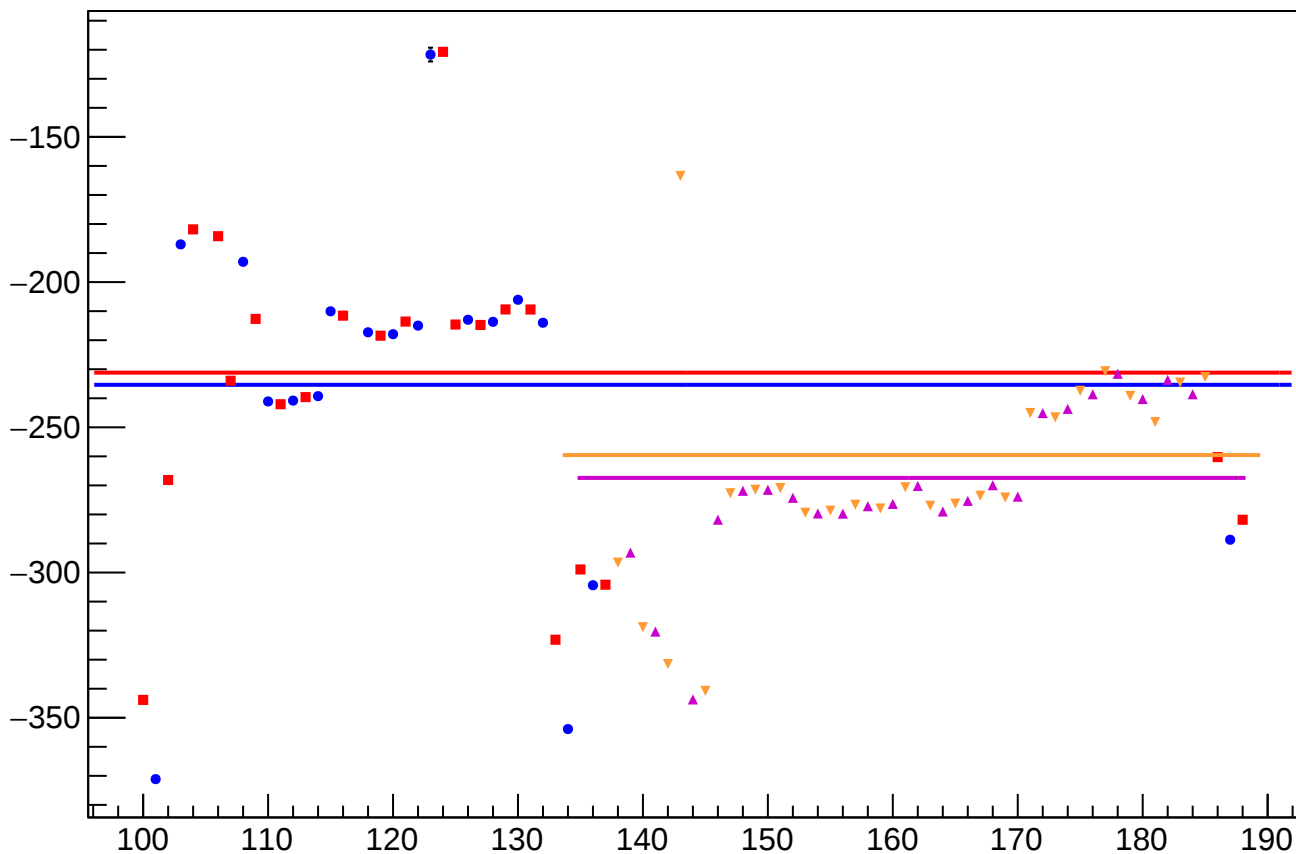
Right: 136.944 $\pm$ 1.826 χ^2 /NDF: 1376.9/38

In: 144.532 $\pm$ 1.464 χ^2 /NDF:1116.2/40

Out: 133.100 $\pm$ 1.375 χ^2 /NDF:1453.7/45

All: 138.458 $\pm$ 1.002 χ^2 /NDF: 2602.2/86

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -235.368+/-0.148 χ^2/NDF : 147053.7/17

Left Out: -259.557+/-0.079 χ^2/NDF : 238235.2/24

Right Out: -231.172+/-0.135 χ^2/NDF : 110932.4/20

Left In: -267.417+/-0.082 χ^2/NDF : 98035.5/22

Left: -263.361+/-0.057 χ^2/NDF : 341051.4/47

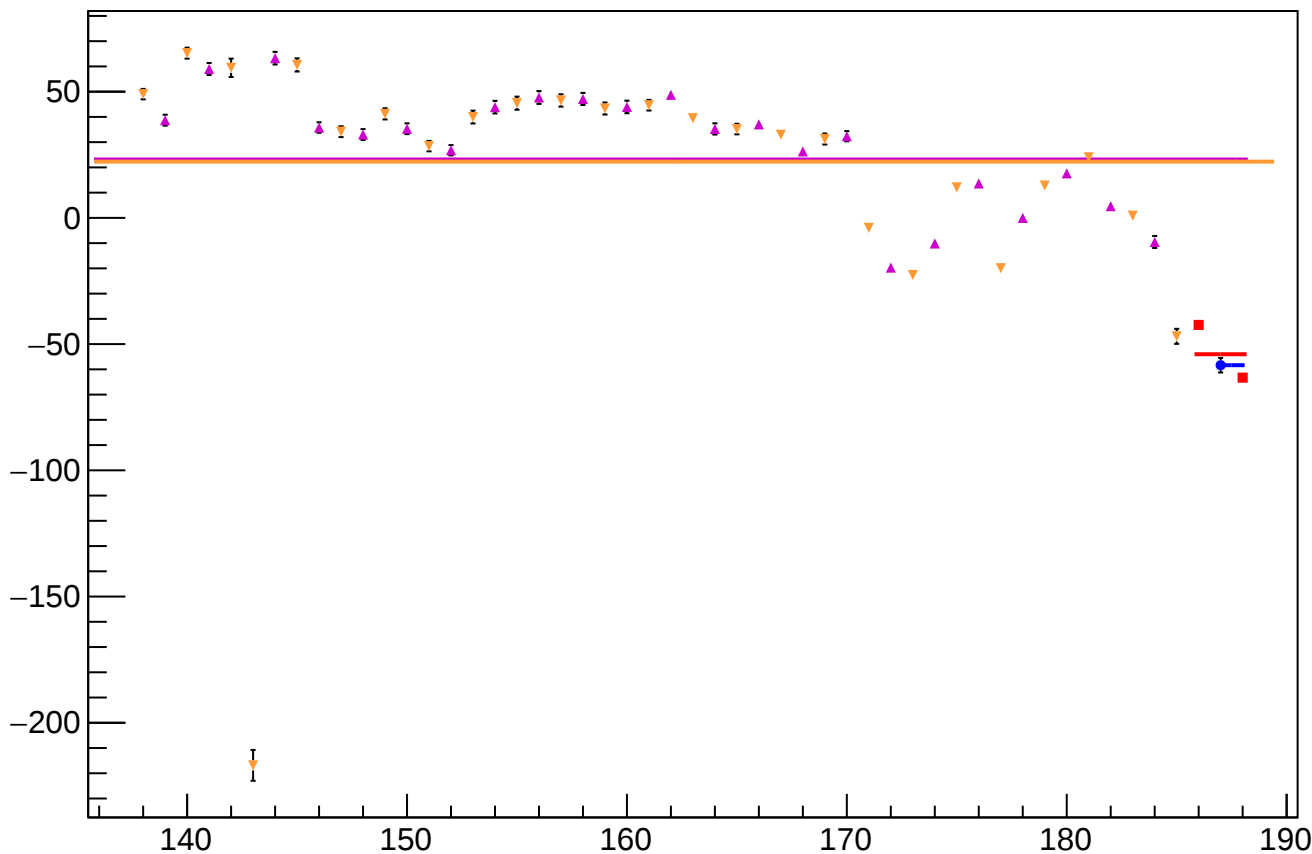
Right: -233.077+/-0.100 χ^2/NDF : 258424.8/38

In: -259.940+/-0.072 χ^2/NDF : 281016.2/40

Out: -252.303+/-0.068 χ^2/NDF : 382085.3/45

All: -255.942+/-0.049 χ^2/NDF : 669070.6/86

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -58.350+/-2.889 χ^2/NDF : 0.0/0

Left Out: 22.279+/-0.399 χ^2/NDF :5171.0/24

Right Out: -54.013+/-1.163 χ^2/NDF : 79.5/1

Left In: 23.136+/-0.401 χ^2/NDF :2744.7/22

Left: 22.705+/-0.283 χ^2/NDF : 7918.0/47

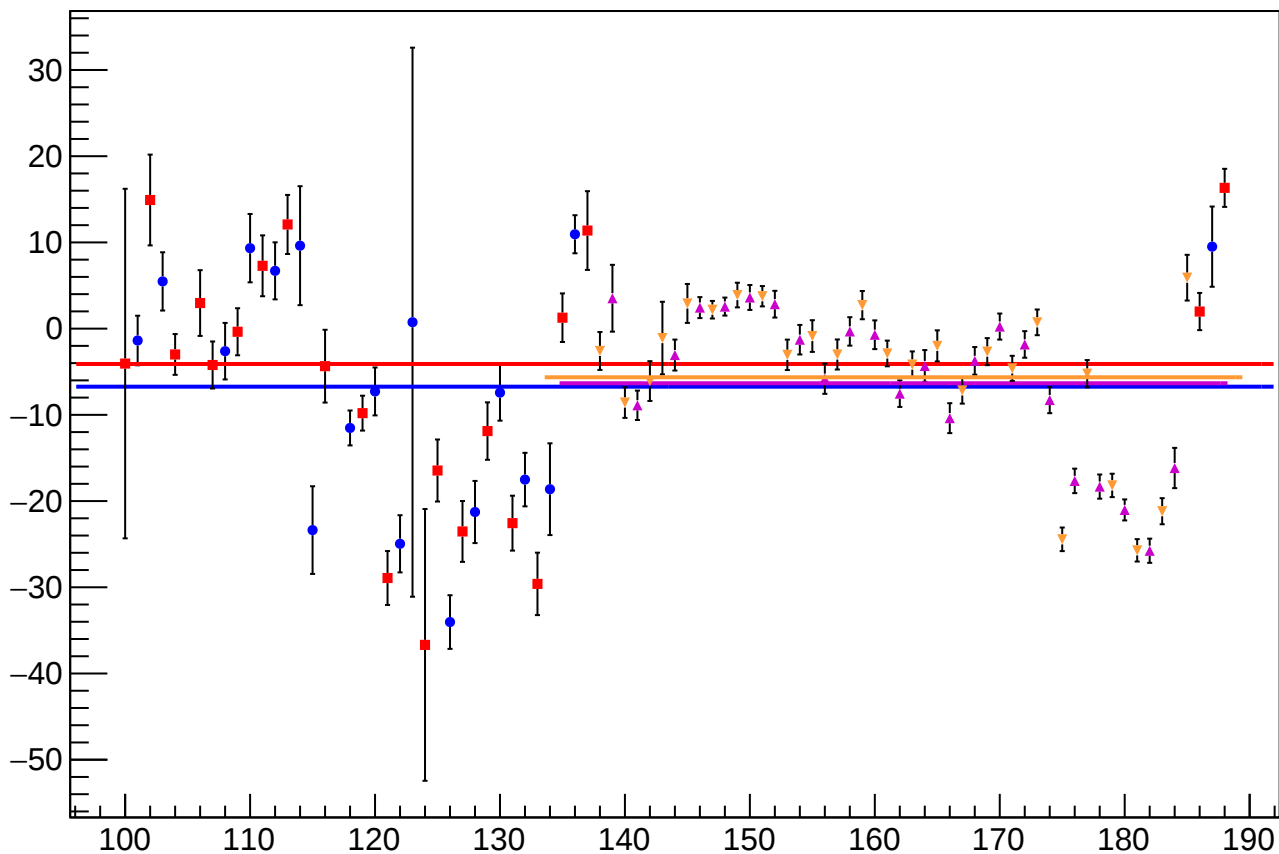
Right: -54.619+/-1.079 χ^2/NDF : 81.4/2

In: 21.593+/-0.398 χ^2/NDF :3525.3/23

Out: 14.259+/-0.377 χ^2/NDF :9098.5/26

All: 17.733+/-0.274 χ^2/NDF : 12802.7/50

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.733 ± 0.779 χ^2/NDF : 290.0/17

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -4.100 ± 0.683 χ^2/NDF : 366.0/20

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

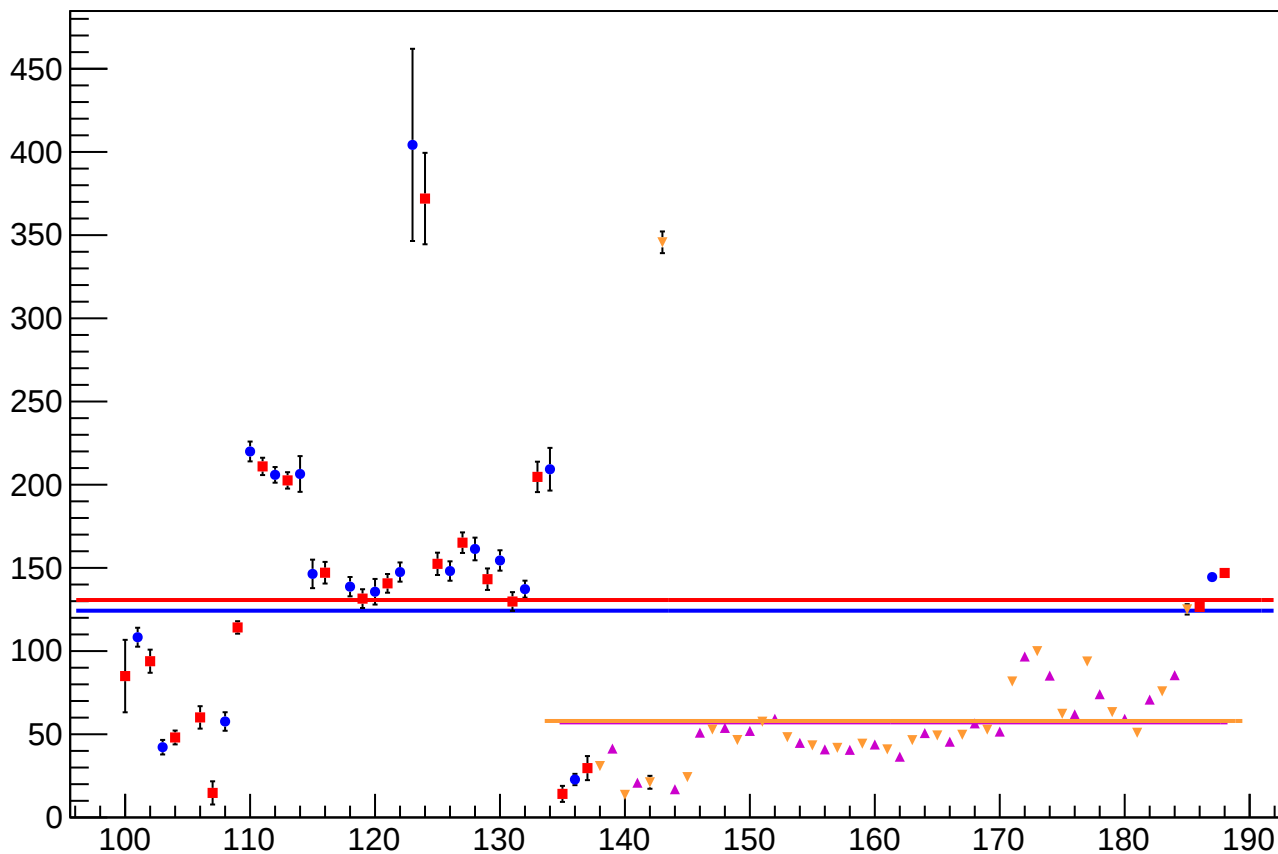
Right: -5.244 ± 0.514 χ^2/NDF : 662.5/38

In: -6.394 ± 0.297 χ^2/NDF : 1073.2/40

Out: -5.371 ± 0.286 χ^2/NDF : 1264.0/45

All: -5.864 ± 0.206 χ^2/NDF : 2343.3/86

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 124.273+/-1.218 χ^2/NDF : 2257.4/17

Left Out: 57.990+/-0.398 χ^2/NDF : 4635.7/24

Right Out: 130.695+/-0.771 χ^2/NDF : 2435.2/20

Left In: 57.139+/-0.400 χ^2/NDF : 1803.4/22

Left: 57.566+/-0.282 χ^2/NDF : 6441.4/47

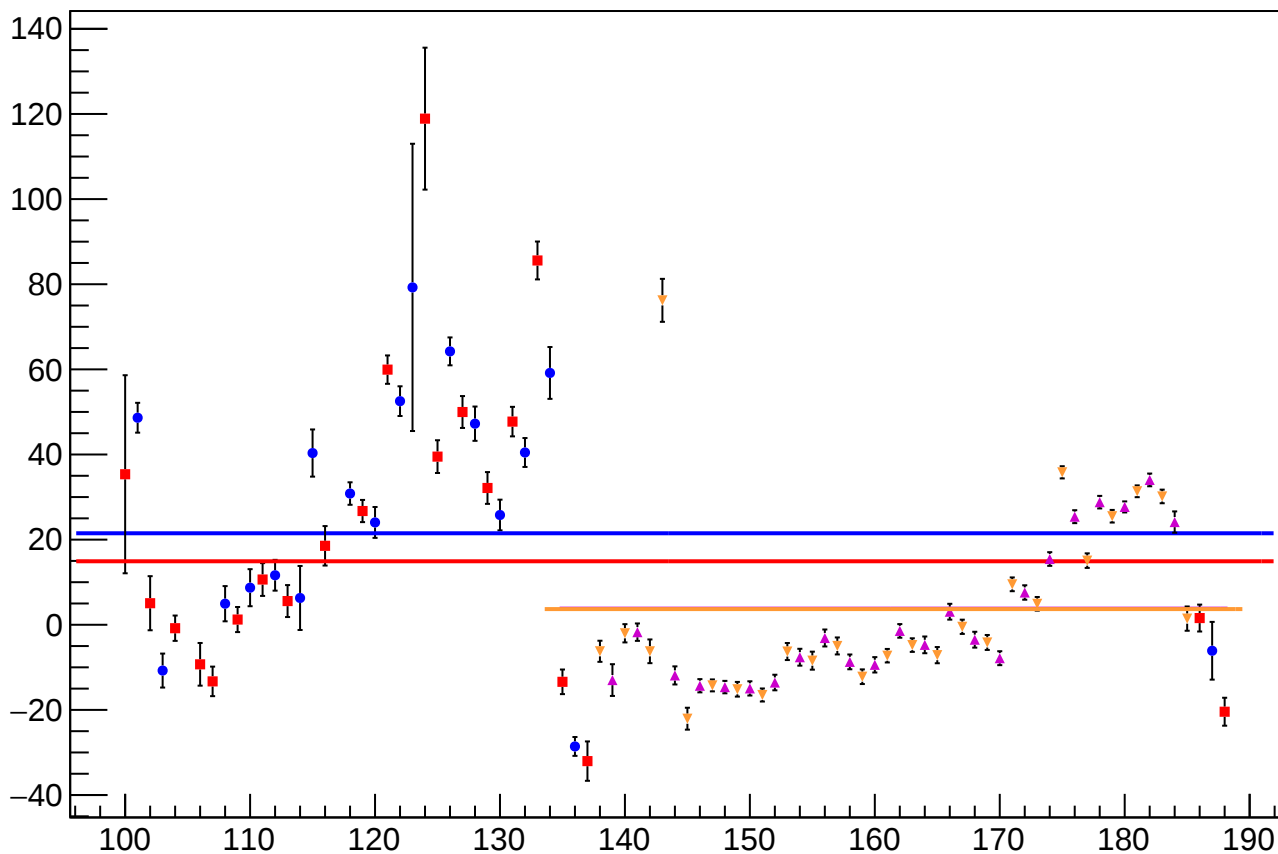
Right: 128.857+/-0.652 χ^2/NDF : 4712.5/38

In: 63.661+/-0.380 χ^2/NDF : 6803.5/40

Out: 73.274+/-0.354 χ^2/NDF : 14088.1/45

All: 68.808+/-0.259 χ^2/NDF : 21234.9/86

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 21.495+/-0.892 χ^2 /NDF: 1078.1/17

Left Out: 3.684+/-0.357 χ^2 /NDF:2541.7/24

Right Out: 14.916+/-0.815 χ^2 /NDF: 1216.0/20

Left In: 3.786+/-0.362 χ^2 /NDF:2198.8/22

Left: 3.734+/-0.254 χ^2 /NDF: 4740.5/47

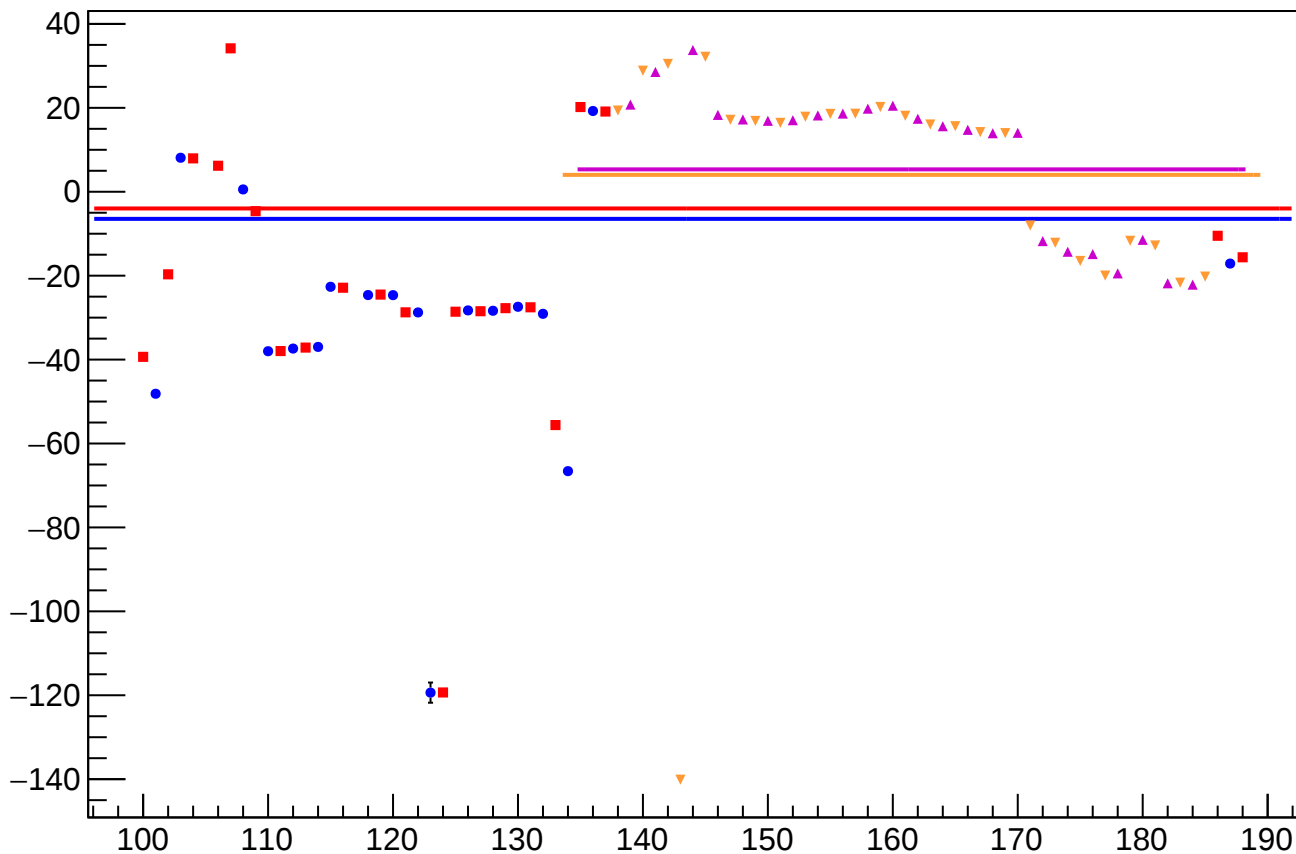
Right: 17.907+/-0.602 χ^2 /NDF: 2323.7/38

In: 6.285+/-0.335 χ^2 /NDF:3615.1/40

Out: 5.491+/-0.327 χ^2 /NDF:3917.2/45

All: 5.878+/-0.234 χ^2 /NDF: 7535.1/86

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.460 $\pm$ 0.046 χ^2/NDF : 264882.7/17

Left Out: 4.026 $\pm$ 0.016 χ^2/NDF : 1383143.9/24

Right Out: -3.983 $\pm$ 0.043 χ^2/NDF : 271639.5/20

Left In: 5.335 $\pm$ 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 $\pm$ 0.012 χ^2/NDF : 2464153.9/47

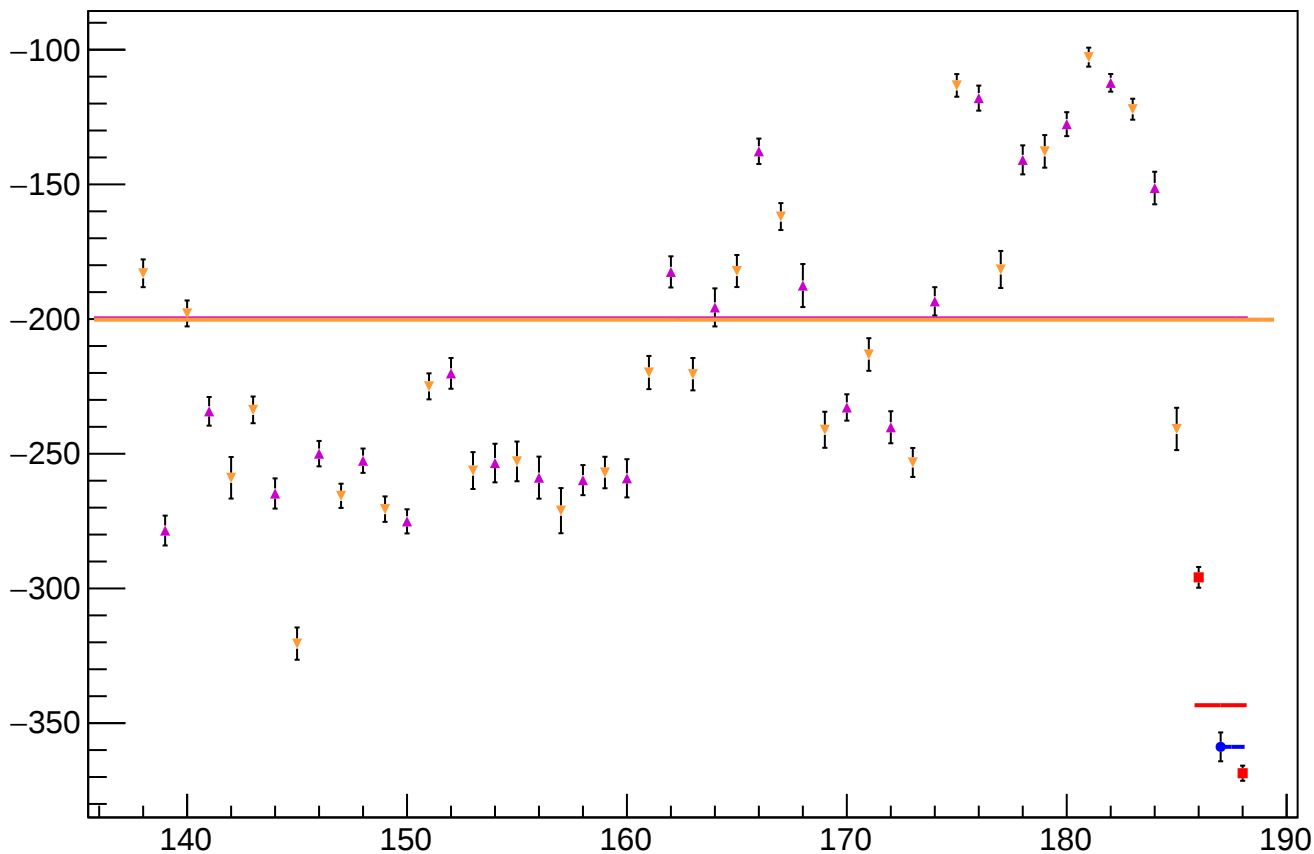
Right: -5.145 $\pm$ 0.032 χ^2/NDF : 538060.3/38

In: 4.003 $\pm$ 0.015 χ^2/NDF : 1400954.5/40

Out: 3.023 $\pm$ 0.015 χ^2/NDF : 1684783.4/45

All: 3.508 $\pm$ 0.011 χ^2/NDF : 3087768.2/86

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



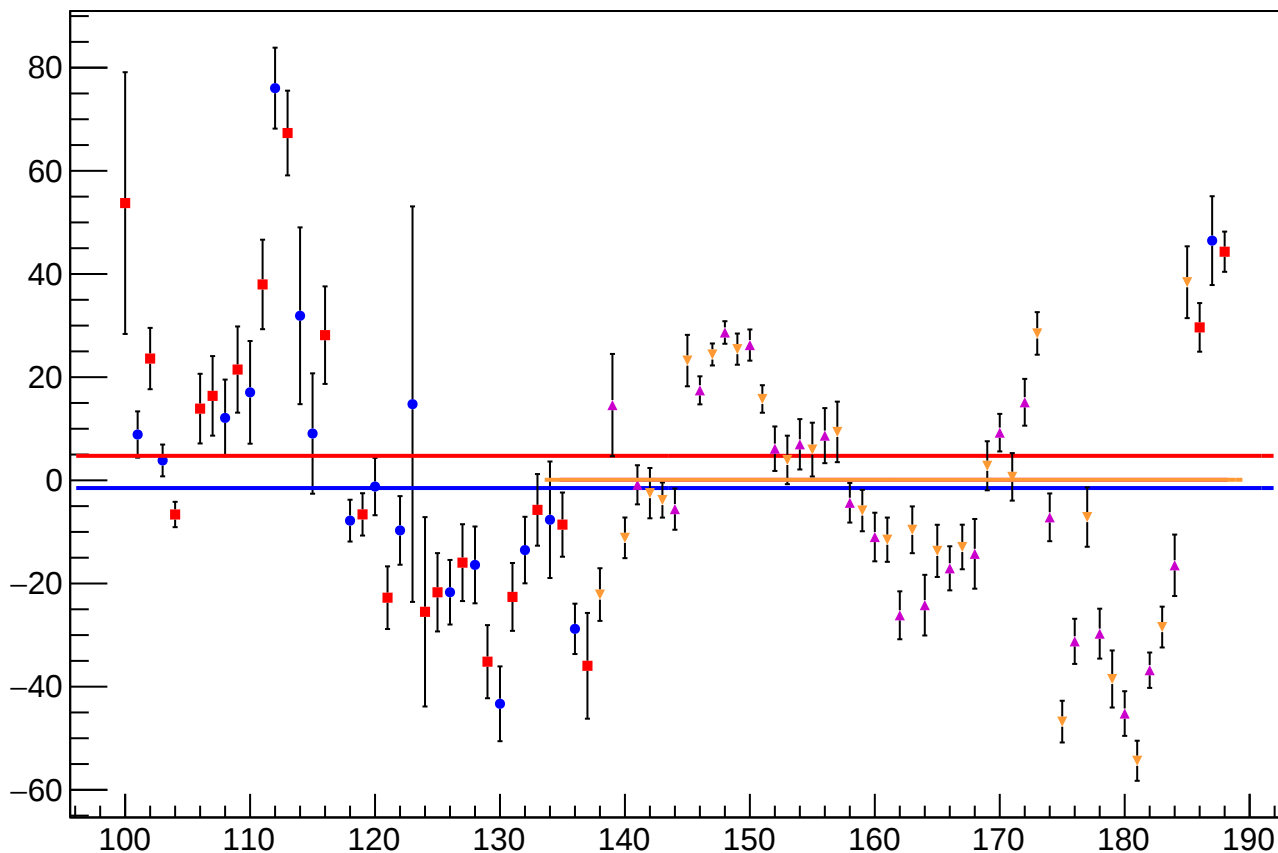
Right In: -358.804 ± 5.356 χ^2/NDF : 0.0/0
 Left Out: -200.228 ± 1.078 χ^2/NDF : 3225.0/24
 Right Out: -343.343 ± 2.272 χ^2/NDF : 232.2/1
 Left In: -199.739 ± 1.097 χ^2/NDF : 2968.0/22

Left: -199.988 ± 0.769 χ^2/NDF : 6193.2/47
 Right: -345.701 ± 2.092 χ^2/NDF : 239.2/2

In: -206.148 ± 1.075 χ^2/NDF : 3814.5/23
 Out: -226.520 ± 0.974 χ^2/NDF : 6696.1/26

All: -217.338 ± 0.722 χ^2/NDF : 10707.9/50

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.494 ± 1.448 χ^2/NDF : 235.4/17

Left Out: 0.109 ± 0.807 χ^2/NDF : 831.2/24

Right Out: 4.750 ± 1.267 χ^2/NDF : 375.5/20

Left In: 0.097 ± 0.838 χ^2/NDF : 715.5/22

Left: 0.103 ± 0.581 χ^2/NDF : 1546.7/47

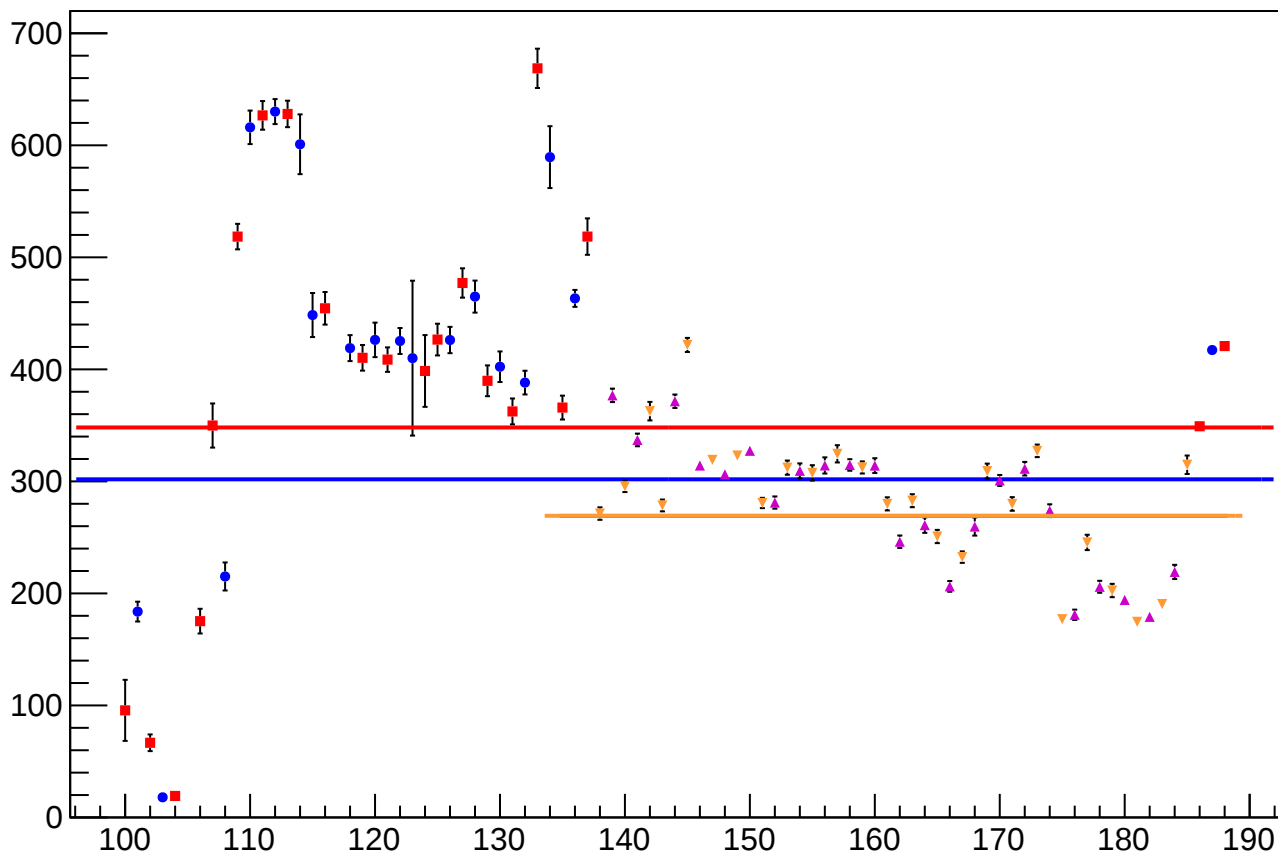
Right: 2.042 ± 0.954 χ^2/NDF : 621.3/38

In: -0.302 ± 0.725 χ^2/NDF : 951.7/40

Out: 1.448 ± 0.681 χ^2/NDF : 1216.2/45

All: 0.628 ± 0.496 χ^2/NDF : 2171.1/86

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 301.838 $\pm$ 2.168 χ^2 /NDF: 8522.5/17

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 348.130 $\pm$ 1.463 χ^2 /NDF: 10482.4/20

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

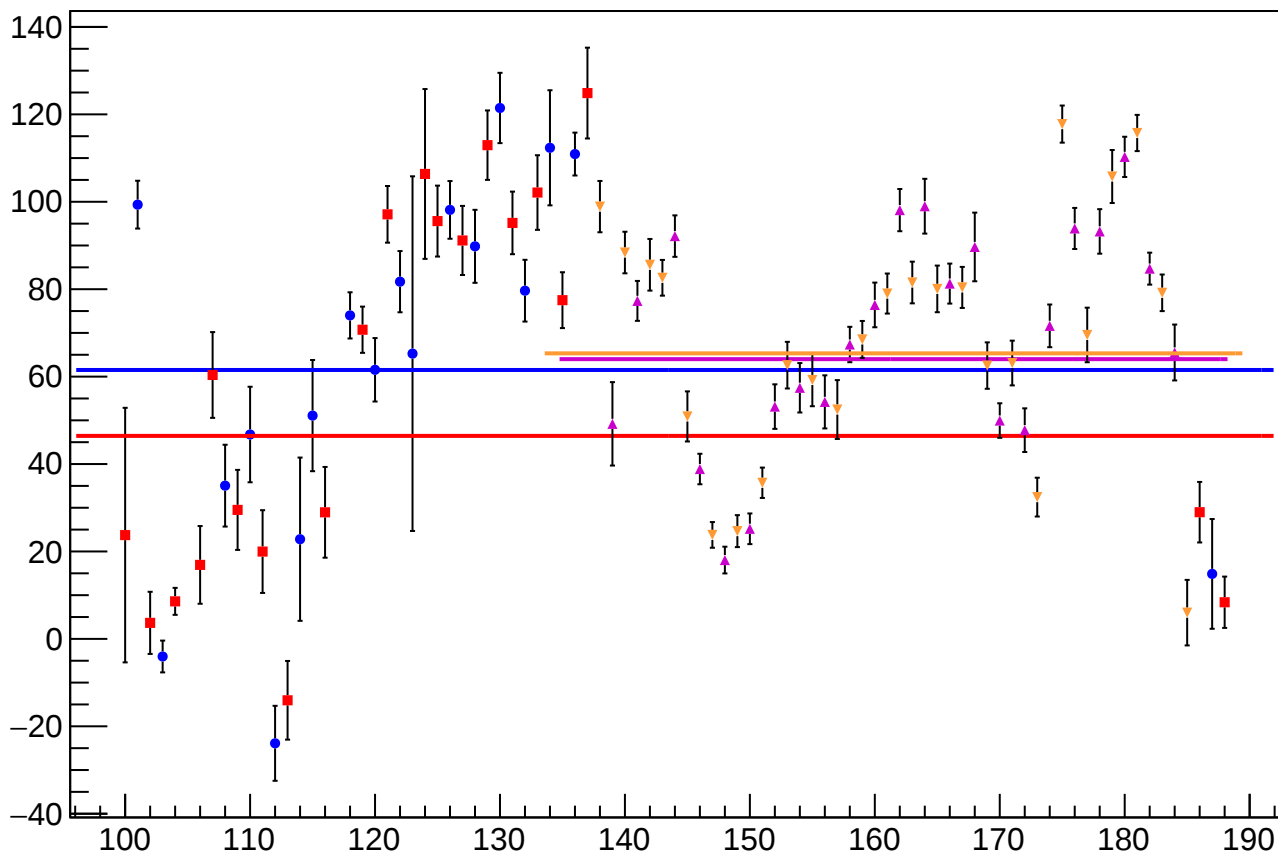
Right: 333.642 $\pm$ 1.213 χ^2 /NDF: 19318.2/38

In: 275.785 $\pm$ 0.974 χ^2 /NDF:11873.7/40

Out: 297.010 $\pm$ 0.868 χ^2 /NDF:15512.2/45

All: 287.622 $\pm$ 0.648 χ^2 /NDF: 27650.6/86

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 61.521 ± 1.681 $\chi^2/\text{NDF}: 734.9/17$

Left Out: 65.323 ± 0.935 $\chi^2/\text{NDF}: 1007.1/24$

Right Out: 46.442 ± 1.543 $\chi^2/\text{NDF}: 708.1/20$

Left In: 63.999 ± 0.963 $\chi^2/\text{NDF}: 799.5/22$

Left: 64.681 ± 0.671 $\chi^2/\text{NDF}: 1807.5/47$

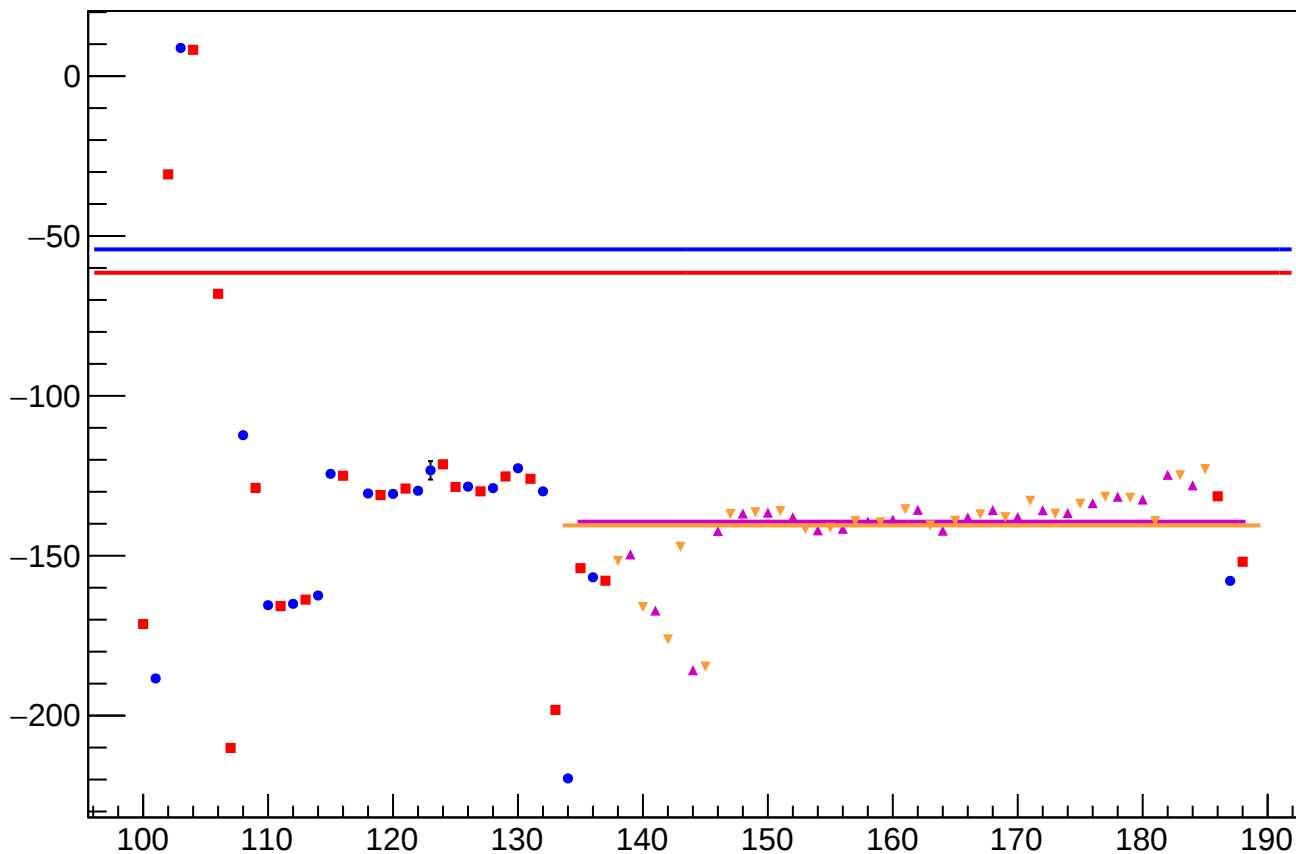
Right: 53.336 ± 1.137 $\chi^2/\text{NDF}: 1486.7/38$

In: 63.387 ± 0.836 $\chi^2/\text{NDF}: 1536.0/40$

Out: 60.256 ± 0.799 $\chi^2/\text{NDF}: 1824.7/45$

All: 61.752 ± 0.578 $\chi^2/\text{NDF}: 3368.1/86$

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -54.190 ± 0.070 $\chi^2/\text{NDF}: 1245373.1/17$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -61.492 ± 0.069 $\chi^2/\text{NDF}: 1075644.0/20$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

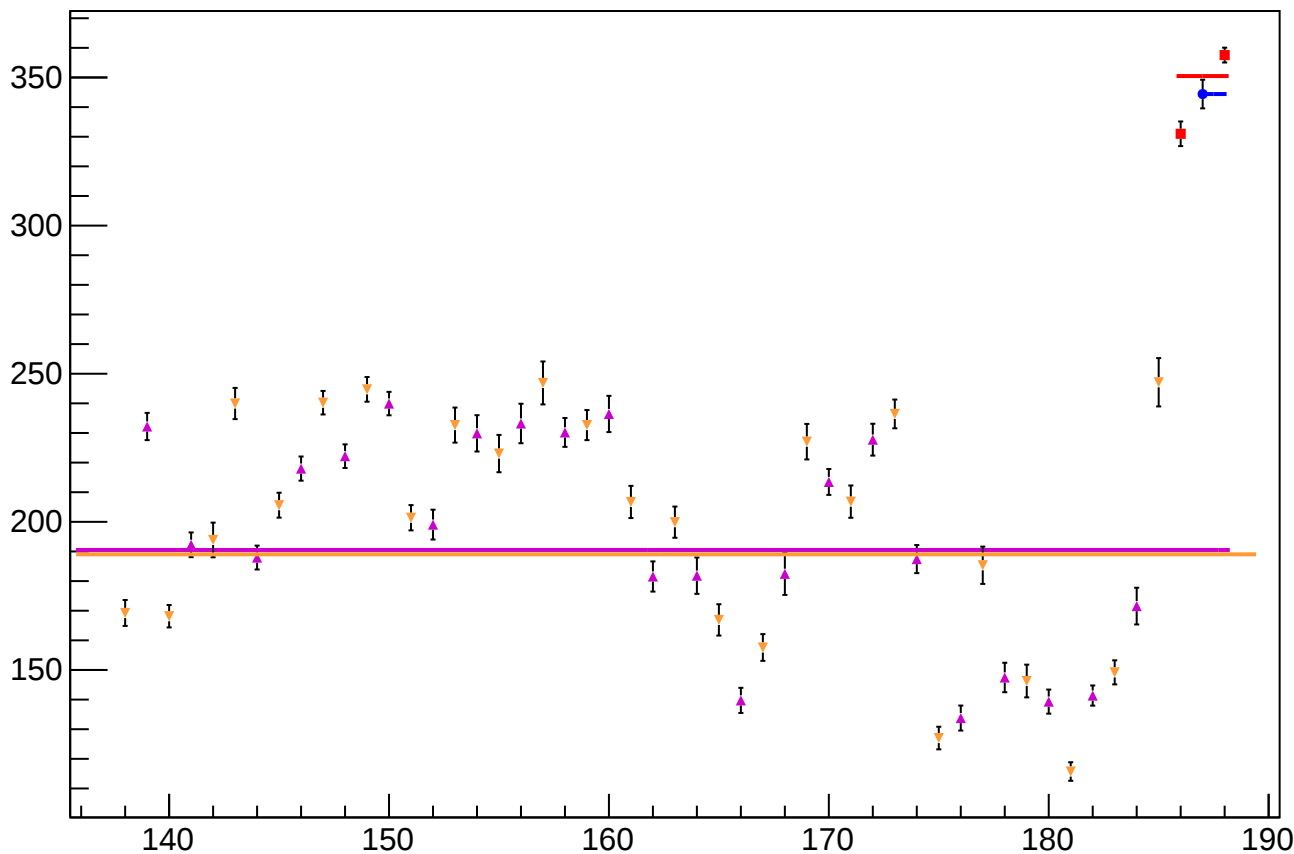
Right: -57.874 ± 0.049 $\chi^2/\text{NDF}: 2326488.9/38$

In: -114.501 ± 0.038 $\chi^2/\text{NDF}: 2352925.6/40$

Out: -117.495 ± 0.038 $\chi^2/\text{NDF}: 2069750.2/45$

All: -116.013 ± 0.027 $\chi^2/\text{NDF}: 4425832.0/86$

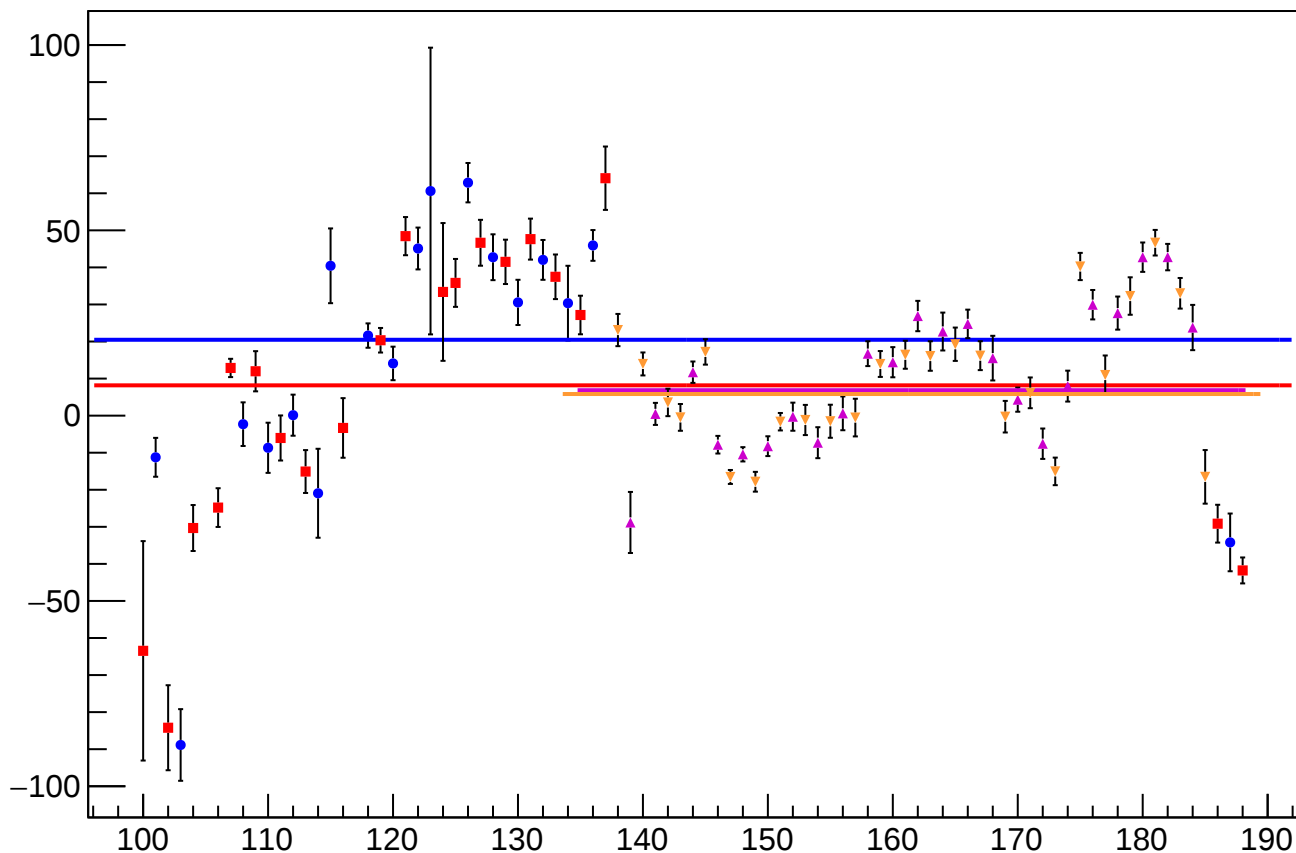
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 344.410 $\pm$ 4.840 χ^2 /NDF: 0.0/0
 Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24
 Right Out: 350.479 $\pm$ 2.146 χ^2 /NDF: 30.0/1
 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: 349.483 $\pm$ 1.961 χ^2 /NDF: 31.3/2
 In: 196.508 $\pm$ 0.956 χ^2 /NDF:2384.3/23
 Out: 215.769 $\pm$ 0.873 χ^2 /NDF:6735.7/26
 All: 207.008 $\pm$ 0.645 χ^2 /NDF: 9341.3/50

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 20.472+/-1.376 χ^2/NDF : 432.8/17

Left Out: 5.834+/-0.712 χ^2/NDF : 652.2/24

Right Out: 8.176+/-1.130 χ^2/NDF : 728.9/20

Left In: 6.862+/-0.736 χ^2/NDF : 522.7/22

Left: 6.331+/-0.512 χ^2/NDF : 1176.0/47

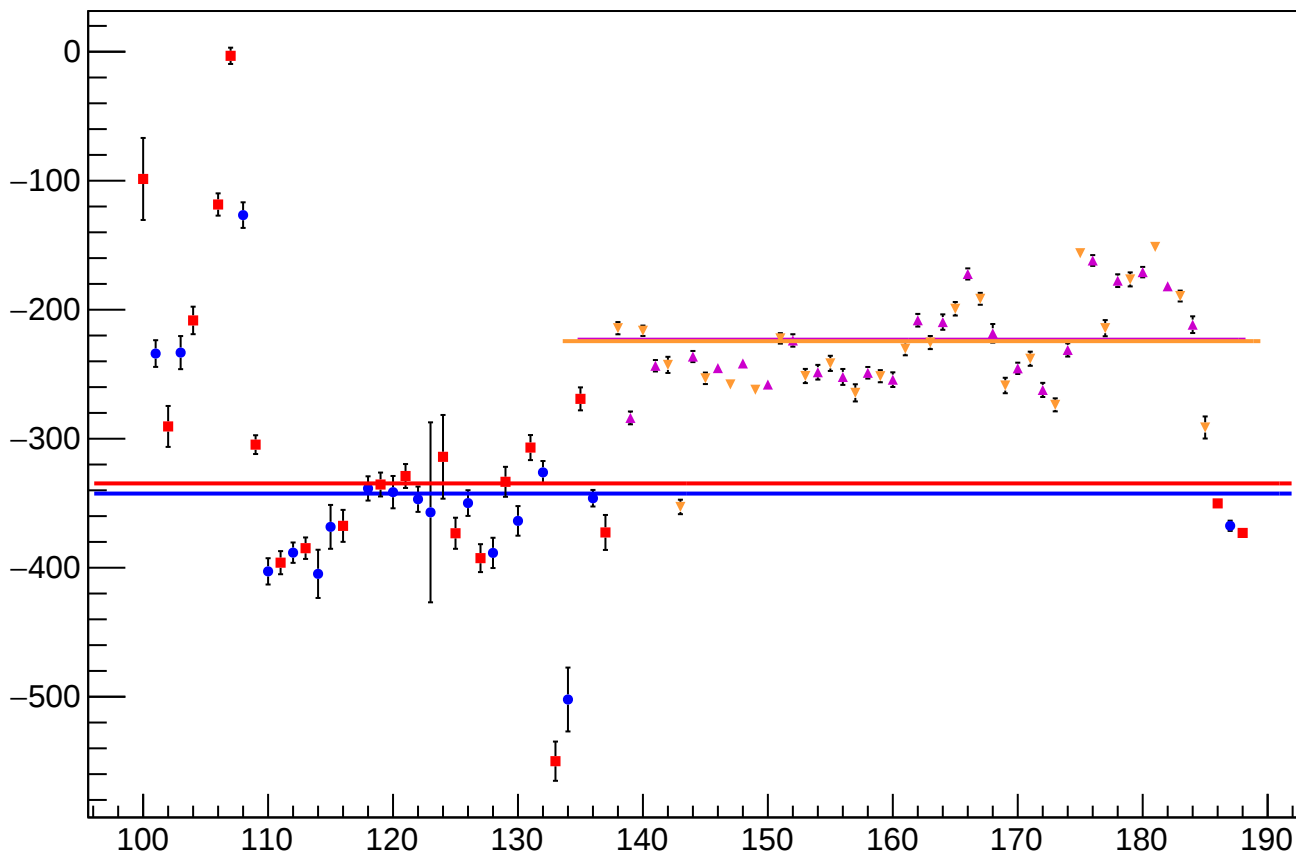
Right: 13.131+/-0.874 χ^2/NDF : 1209.4/38

In: 9.891+/-0.649 χ^2/NDF : 1031.6/40

Out: 6.500+/-0.603 χ^2/NDF : 1384.2/45

All: 8.070+/-0.442 χ^2/NDF : 2430.5/86

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -342.511 ± 2.168 χ^2/NDF : 842.1/17

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -334.646 ± 1.383 χ^2/NDF : 4387.7/20

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

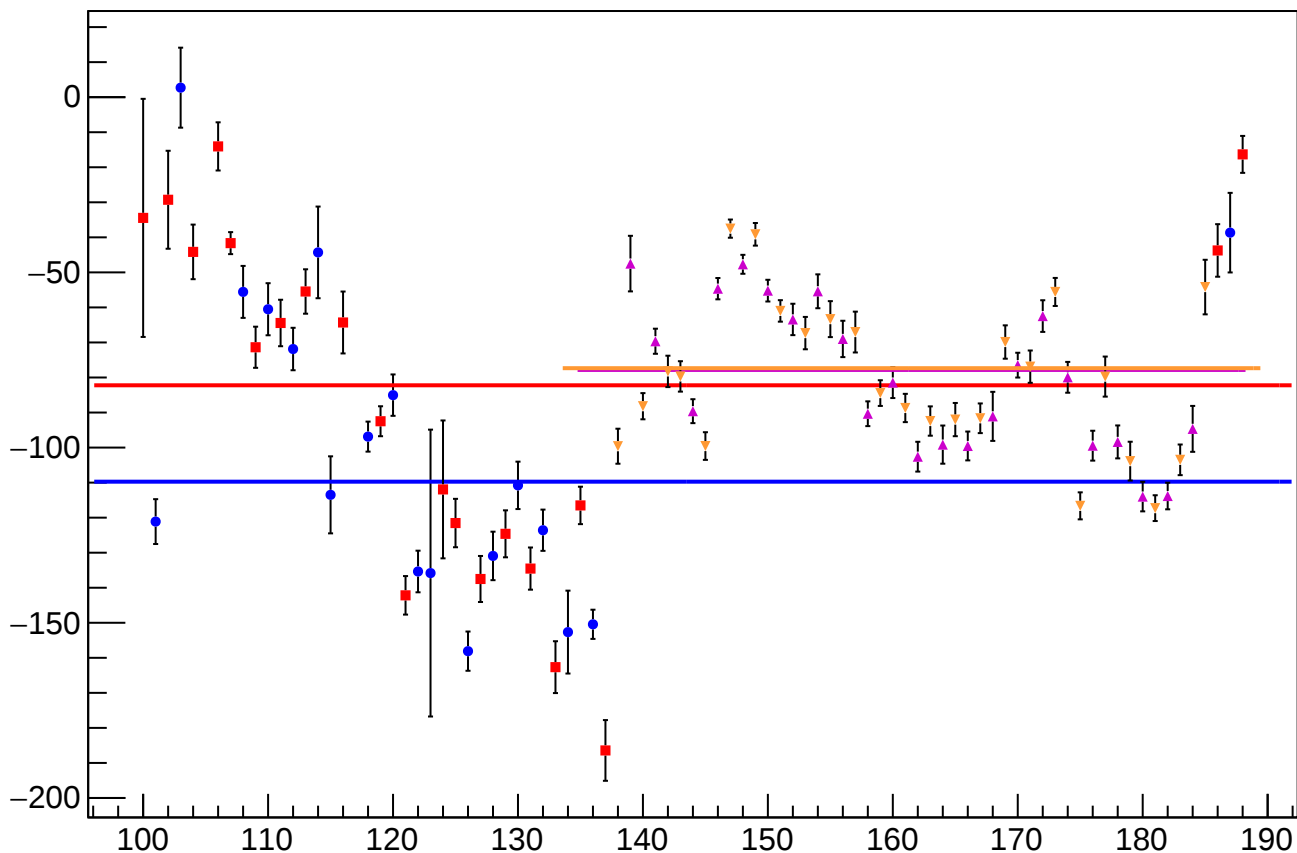
Right: -336.922 ± 1.166 χ^2/NDF : 5239.1/38

In: -243.098 ± 0.885 χ^2/NDF : 4635.4/40

Out: -260.021 ± 0.786 χ^2/NDF : 10793.4/45

All: -252.552 ± 0.588 χ^2/NDF : 15633.2/86

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -109.732 ± 1.585 χ^2/NDF : 544.5/17

Left Out: -77.343 ± 0.827 χ^2/NDF : 846.2/24

Right Out: -82.225 ± 1.362 χ^2/NDF : 1170.5/20

Left In: -77.838 ± 0.849 χ^2/NDF : 622.8/22

Left: -77.584 ± 0.592 χ^2/NDF : 1469.2/47

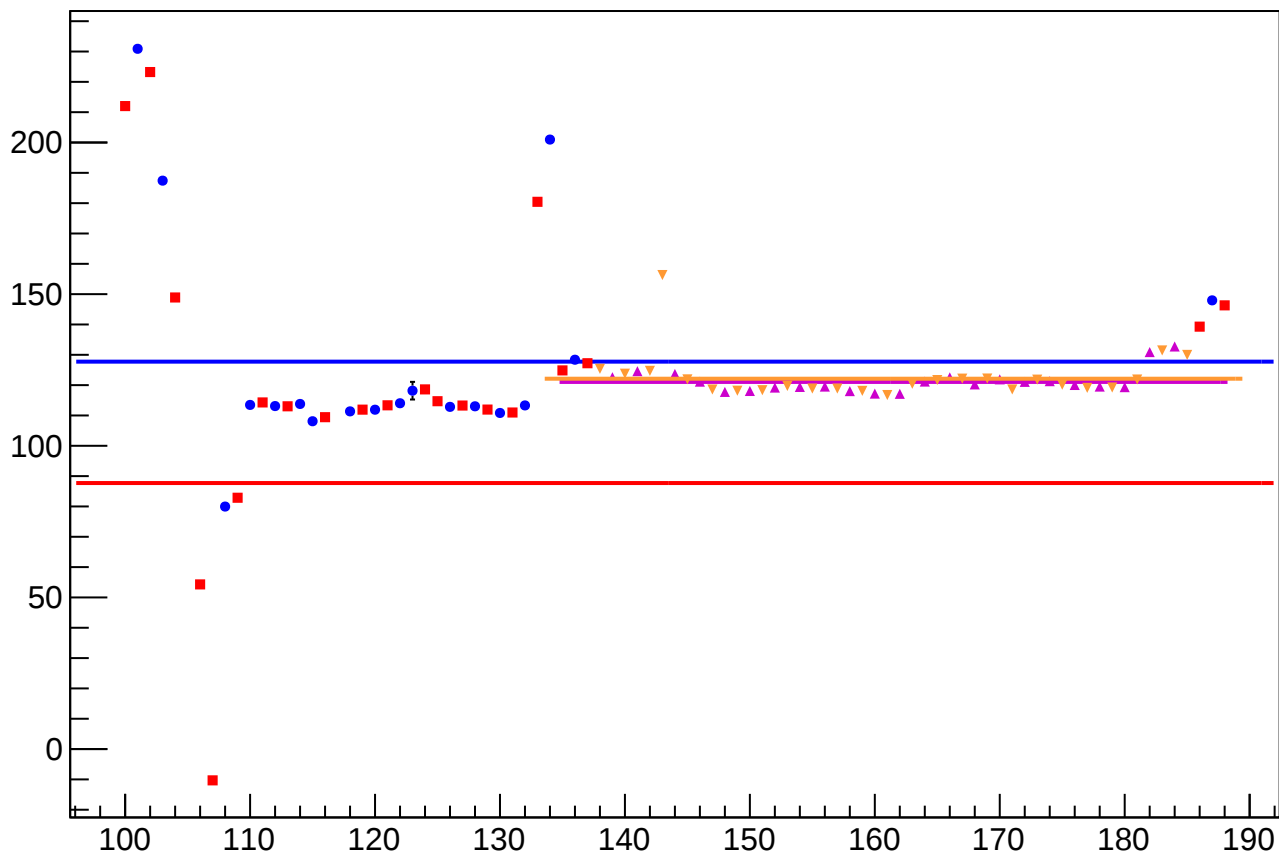
Right: -93.903 ± 1.033 χ^2/NDF : 1888.3/38

In: -84.944 ± 0.748 χ^2/NDF : 1481.9/40

Out: -78.658 ± 0.707 χ^2/NDF : 2026.2/45

All: -81.621 ± 0.514 χ^2/NDF : 3545.4/86

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 127.747 $\pm$ 0.089 χ^2 /NDF: 188734.5/17

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 87.718 $\pm$ 0.072 χ^2 /NDF: 821456.5/20

Left In: 121.055 $\pm$ 0.040 χ^2 /NDF:7931.6/22

Left: 121.591 $\pm$ 0.028 χ^2 /NDF: 38773.7/47

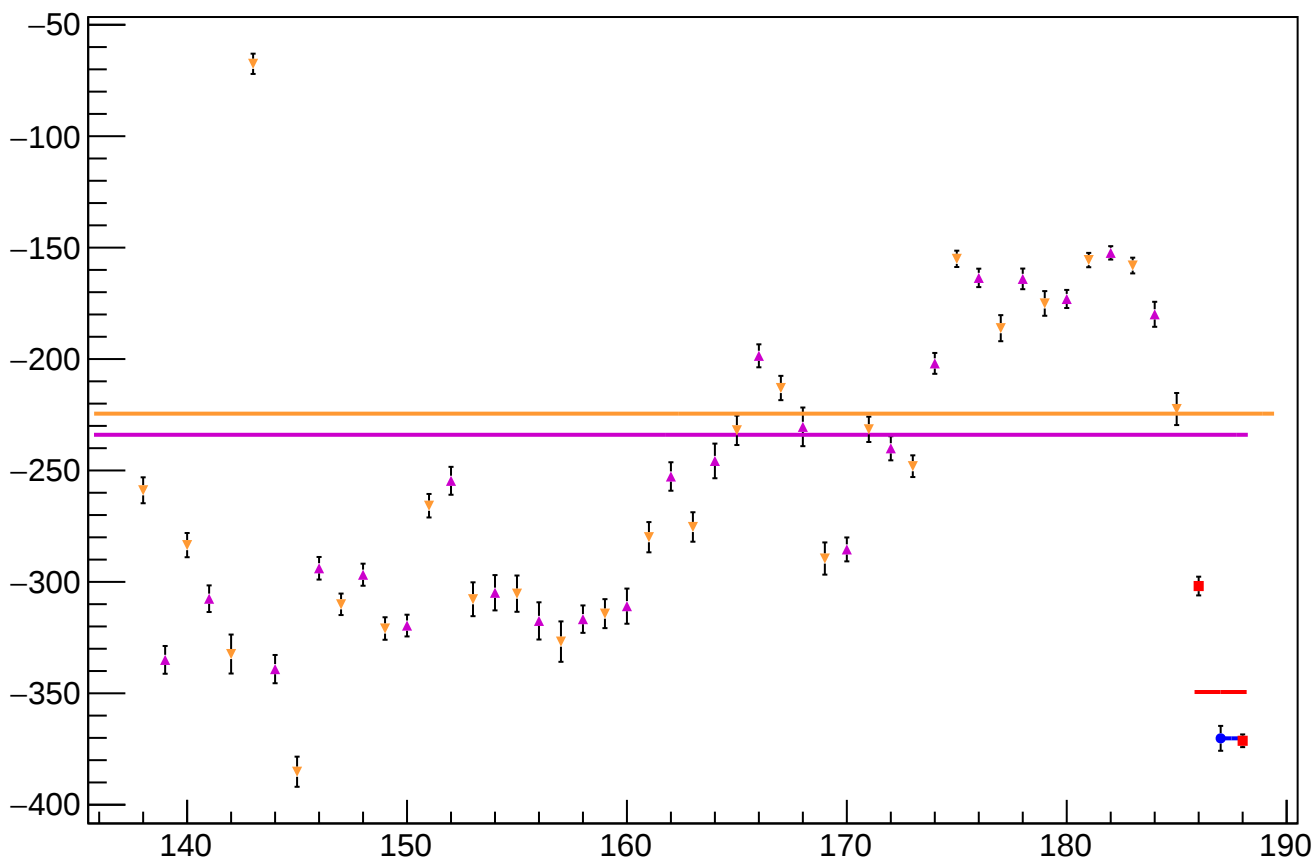
Right: 103.677 $\pm$ 0.056 χ^2 /NDF: 1132637.2/38

In: 122.173 $\pm$ 0.036 χ^2 /NDF:201405.6/40

Out: 114.226 $\pm$ 0.035 χ^2 /NDF:1026733.4/45

All: 118.013 $\pm$ 0.025 χ^2 /NDF: 1253282.3/86

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



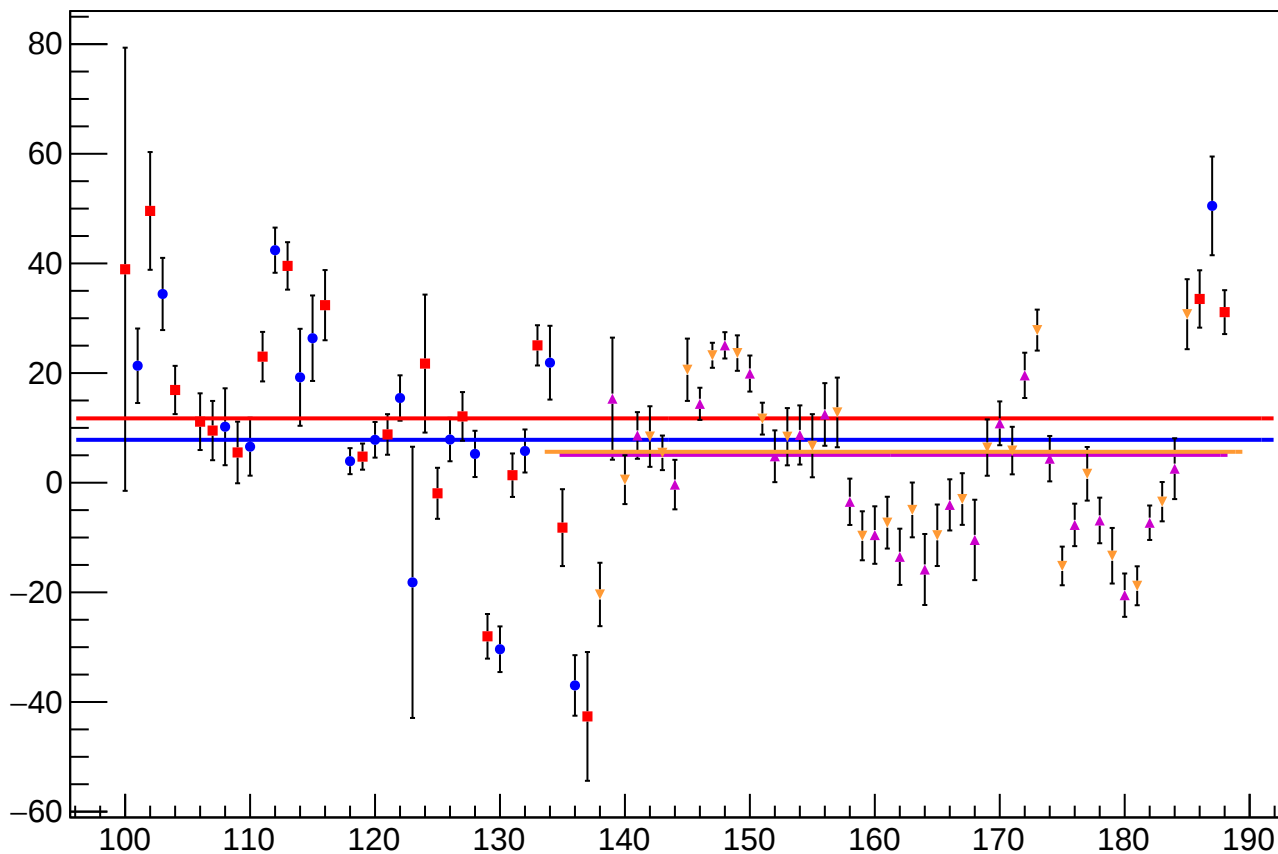
Right In: -370.205 ± 5.584 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$
 Right Out: -349.411 ± 2.360 $\chi^2/\text{NDF}: 186.8/1$
 Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$
 Right: -352.563 ± 2.174 $\chi^2/\text{NDF}: 198.6/2$

In: -239.153 ± 1.087 $\chi^2/\text{NDF}: 4110.9/23$
 Out: -246.095 ± 0.981 $\chi^2/\text{NDF}: 7374.0/26$

All: -242.979 ± 0.729 $\chi^2/\text{NDF}: 11507.4/50$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.824 ± 1.097 $\chi^2/\text{NDF}: 282.9/17$

Left Out: 5.638 ± 0.828 $\chi^2/\text{NDF}: 313.6/24$

Right Out: 11.734 ± 1.016 $\chi^2/\text{NDF}: 277.7/20$

Left In: 5.077 ± 0.869 $\chi^2/\text{NDF}: 239.7/22$

Left: 5.371 ± 0.599 $\chi^2/\text{NDF}: 553.6/47$

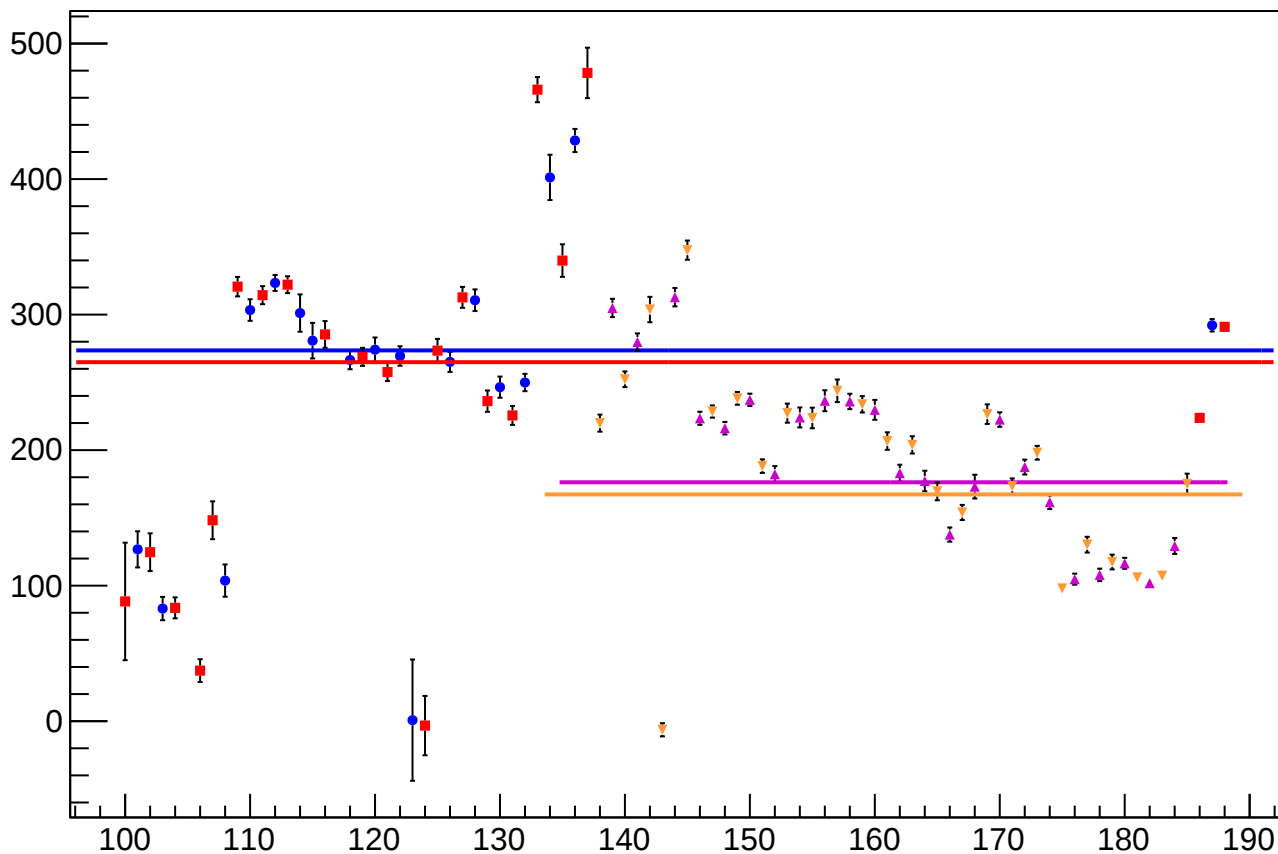
Right: 9.928 ± 0.746 $\chi^2/\text{NDF}: 567.4/38$

In: 6.136 ± 0.681 $\chi^2/\text{NDF}: 526.5/40$

Out: 8.069 ± 0.642 $\chi^2/\text{NDF}: 612.9/45$

All: 7.160 ± 0.467 $\chi^2/\text{NDF}: 1143.7/86$

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 273.585 $\pm$ 1.905 χ^2 /NDF: 1395.6/17

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 264.901 $\pm$ 1.371 χ^2 /NDF: 2824.8/20

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

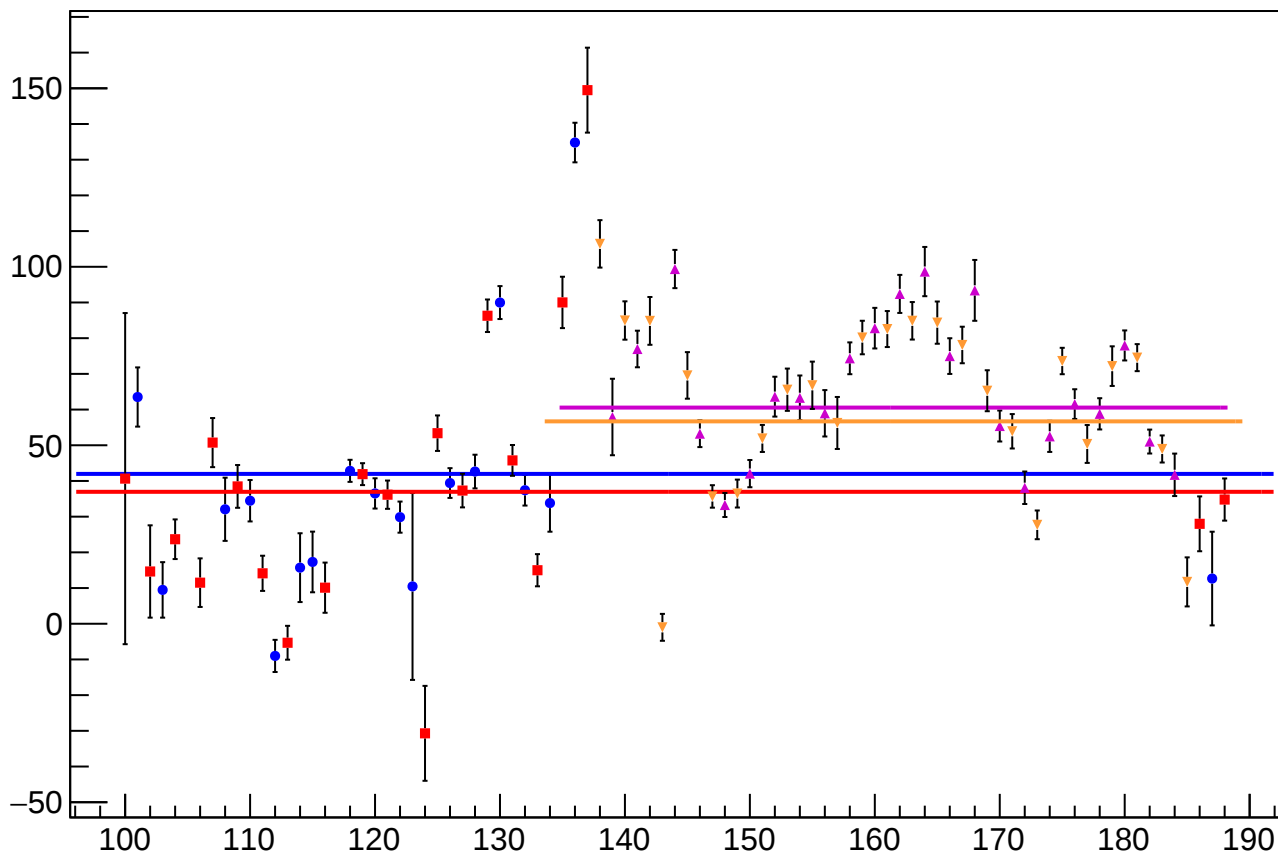
Right: 267.863 $\pm$ 1.113 χ^2 /NDF: 4234.1/38

In: 200.794 $\pm$ 0.956 χ^2 /NDF:6517.0/40

Out: 204.809 $\pm$ 0.850 χ^2 /NDF:10400.3/45

All: 203.038 $\pm$ 0.635 χ^2 /NDF: 16927.1/86

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.978 ± 1.271 χ^2/NDF : 578.1/17

Left Out: 56.695 ± 0.952 χ^2/NDF : 690.4/24

Right Out: 36.961 ± 1.196 χ^2/NDF : 472.1/20

Left In: 60.555 ± 0.990 χ^2/NDF : 335.6/22

Left: 58.548 ± 0.686 χ^2/NDF : 1034.0/47

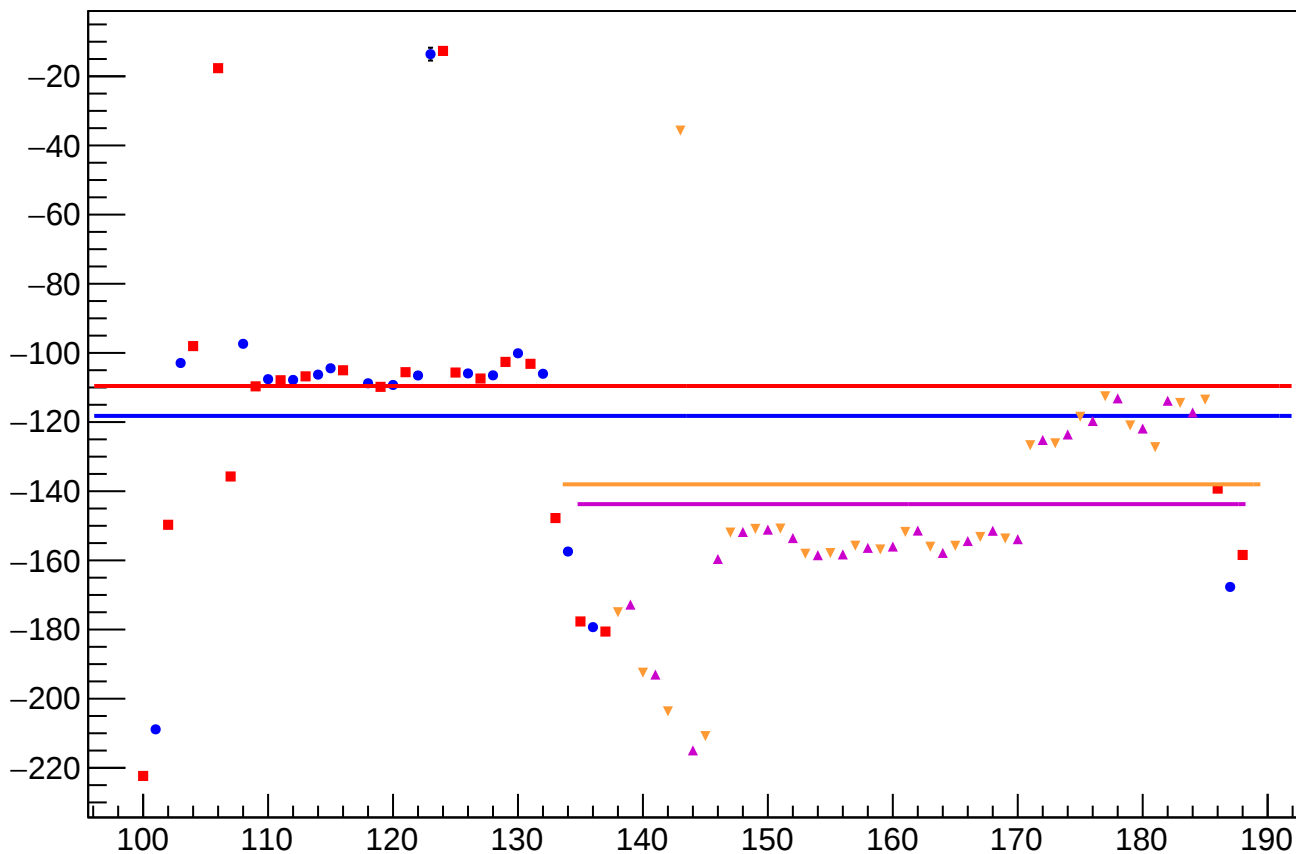
Right: 39.318 ± 0.871 χ^2/NDF : 1058.5/38

In: 53.536 ± 0.781 χ^2/NDF : 1046.8/40

Out: 49.043 ± 0.745 χ^2/NDF : 1329.2/45

All: 51.183 ± 0.539 χ^2/NDF : 2393.3/86

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -118.215 ± 0.078 $\chi^2/\text{NDF}: 146363.1/17$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -109.570 ± 0.070 $\chi^2/\text{NDF}: 358524.7/20$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

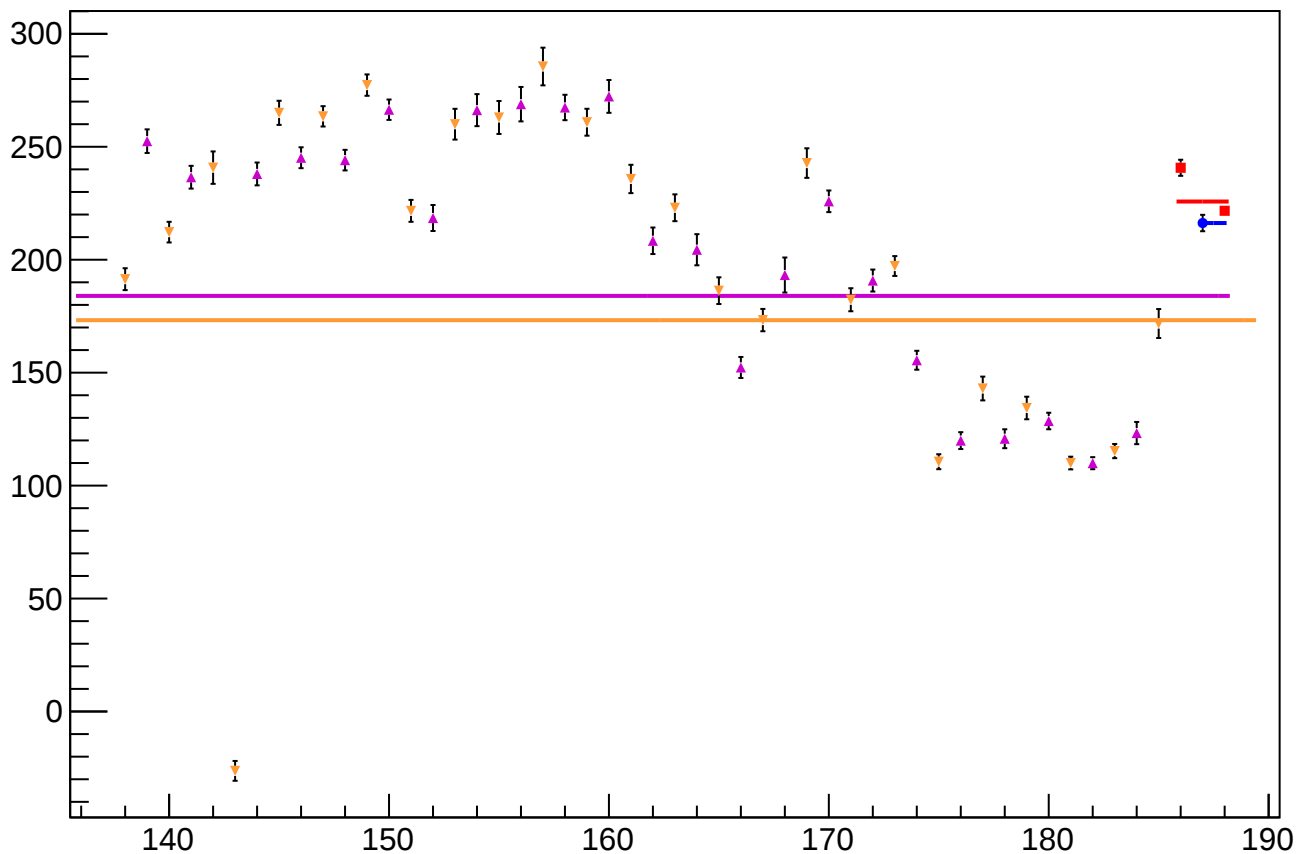
Right: -113.416 ± 0.052 $\chi^2/\text{NDF}: 511668.9/38$

In: -137.156 ± 0.040 $\chi^2/\text{NDF}: 483784.6/40$

Out: -129.661 ± 0.038 $\chi^2/\text{NDF}: 1040845.2/45$

All: -133.237 ± 0.027 $\chi^2/\text{NDF}: 1543251.8/86$

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 216.242 $\pm$ 3.631 χ^2 /NDF: 0.0/0

Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF:5846.0/24

Right Out: 225.762 $\pm$ 1.651 χ^2 /NDF: 22.4/1

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

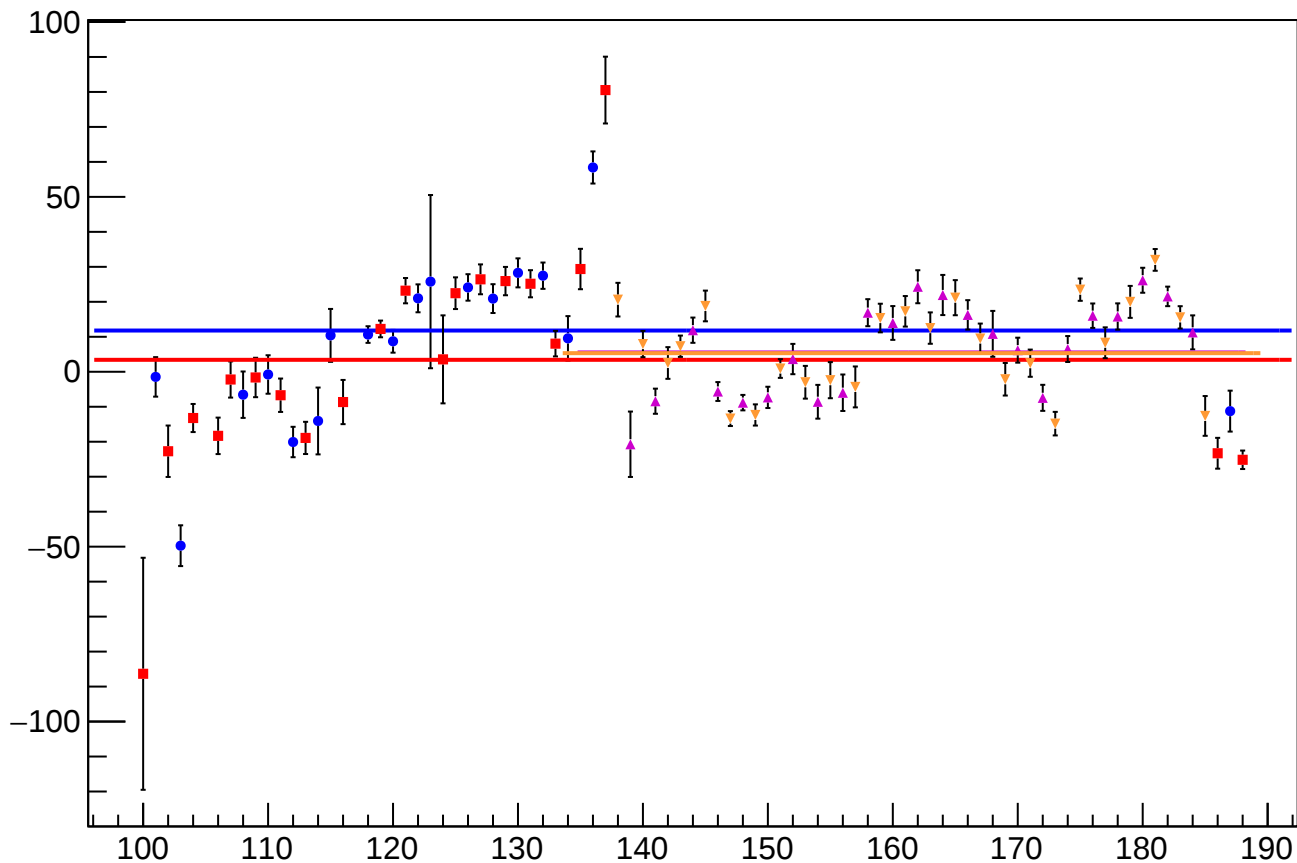
Right: 224.131 $\pm$ 1.503 χ^2 /NDF: 28.1/2

In: 186.220 $\pm$ 0.956 χ^2 /NDF:3687.1/23

Out: 186.618 $\pm$ 0.834 χ^2 /NDF:6622.7/26

All: 186.446 $\pm$ 0.628 χ^2 /NDF: 10310.0/50

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.790+/-1.058 χ^2/NDF : 364.9/17

Left Out: 5.321+/-0.747 χ^2/NDF : 345.5/24

Right Out: 3.416+/-0.952 χ^2/NDF : 481.7/20

Left In: 5.527+/-0.781 χ^2/NDF : 256.3/22

Left: 5.420+/-0.540 χ^2/NDF : 601.9/47

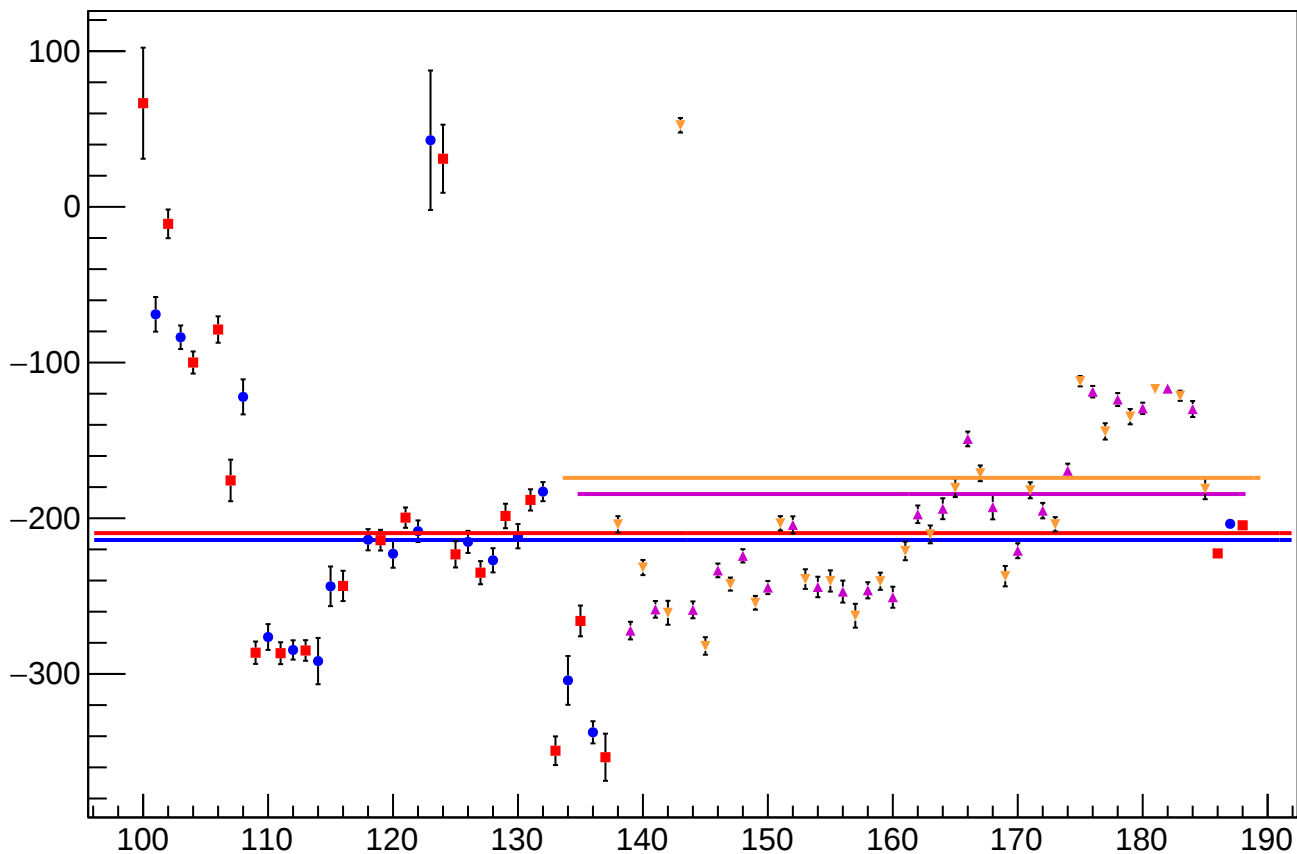
Right: 7.161+/-0.708 χ^2/NDF : 881.2/38

In: 7.735+/-0.628 χ^2/NDF : 643.9/40

Out: 4.595+/-0.588 χ^2/NDF : 829.7/45

All: 6.060+/-0.429 χ^2/NDF : 1486.9/86

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -213.969 ± 1.677 χ^2/NDF : 1162.0/17

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -209.541 ± 1.092 χ^2/NDF : 1918.4/20

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

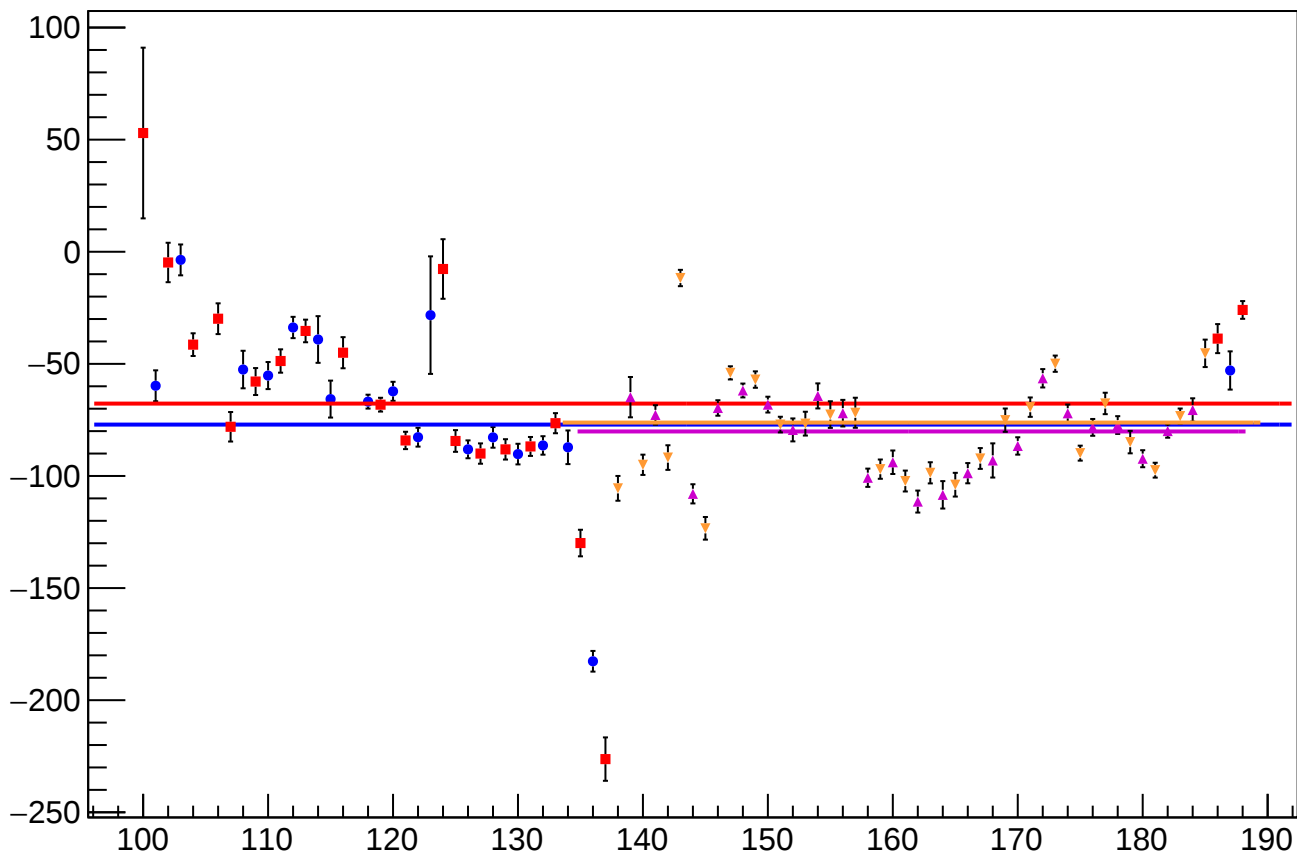
Right: -210.860 ± 0.915 χ^2/NDF : 3085.2/38

In: -192.093 ± 0.853 χ^2/NDF : 4443.2/40

Out: -189.718 ± 0.726 χ^2/NDF : 7951.0/45

All: -190.715 ± 0.553 χ^2/NDF : 12398.8/86

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -77.082 ± 1.226 $\chi^2/\text{NDF}: 824.6/17$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -67.720 ± 1.138 $\chi^2/\text{NDF}: 818.3/20$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

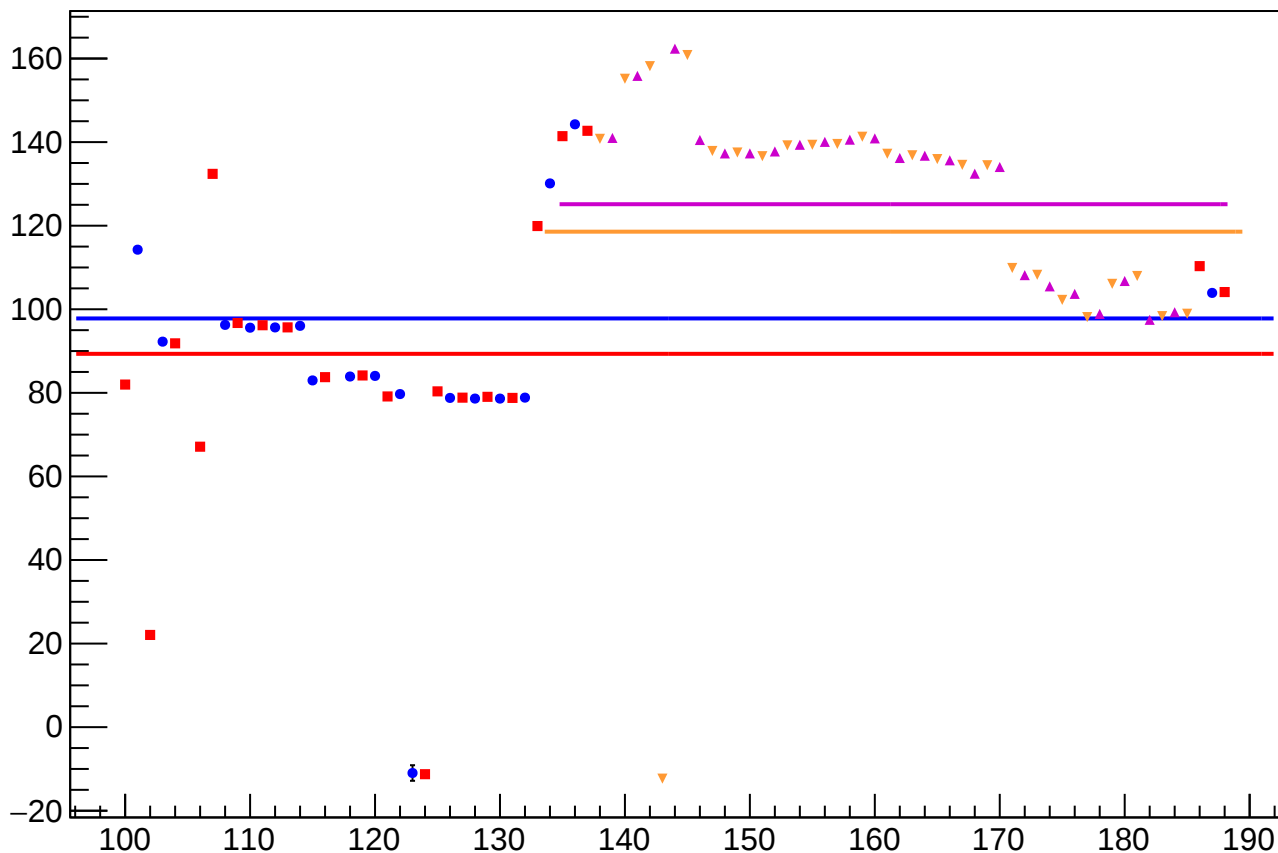
Right: -72.051 ± 0.834 $\chi^2/\text{NDF}: 1674.2/38$

In: -79.092 ± 0.720 $\chi^2/\text{NDF}: 1112.0/40$

Out: -73.118 ± 0.685 $\chi^2/\text{NDF}: 1654.5/45$

All: -75.956 ± 0.496 $\chi^2/\text{NDF}: 2802.7/86$

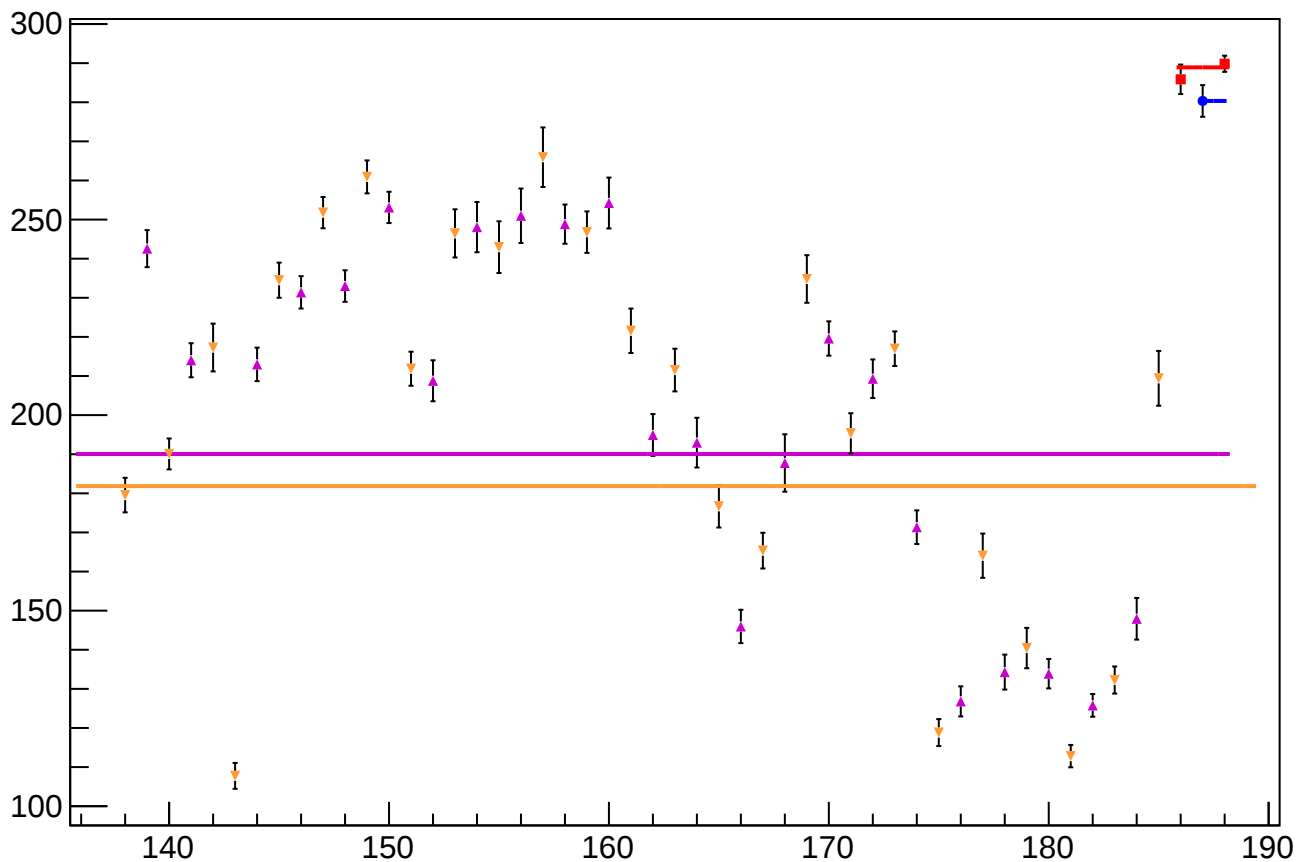
reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 97.803 $\pm$ 0.073 χ^2 /NDF: 94077.9/17
 Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24
 Right Out: 89.336 $\pm$ 0.064 χ^2 /NDF: 229034.1/20
 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: 93.032 $\pm$ 0.048 χ^2 /NDF: 330700.1/38
 In: 118.510 $\pm$ 0.036 χ^2 /NDF: 421329.5/40
 Out: 110.254 $\pm$ 0.034 χ^2 /NDF: 1105961.9/45
 All: 114.185 $\pm$ 0.025 χ^2 /NDF: 1554950.3/86

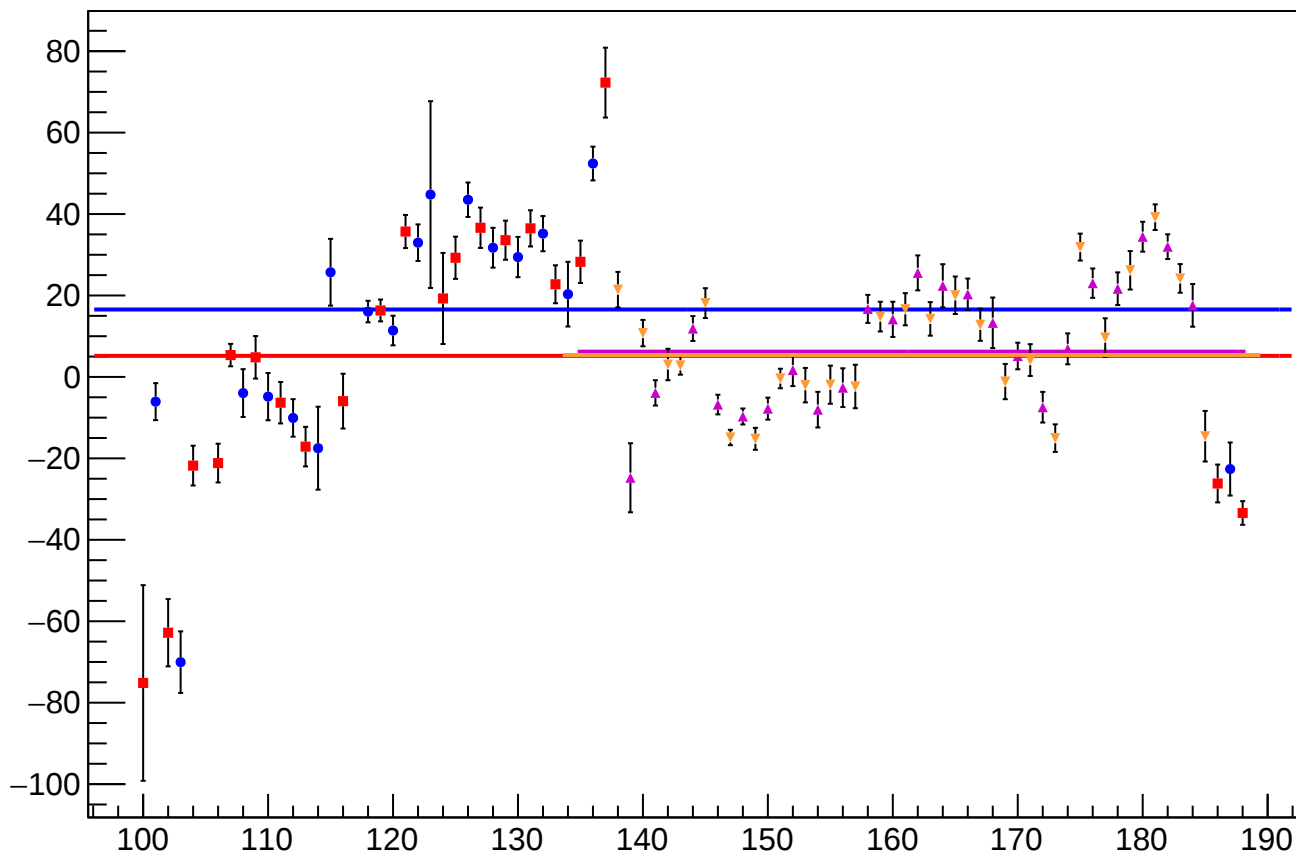
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 280.334 $\pm$ 4.047 χ^2 /NDF: 0.0/0
 Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF:3303.4/24
 Right Out: 288.923 $\pm$ 1.813 χ^2 /NDF: 0.9/1
 Left In: 190.048 $\pm$ 0.953 χ^2 /NDF:2438.4/22

Left: 185.775 $\pm$ 0.659 χ^2 /NDF: 5780.3/47
 Right: 287.488 $\pm$ 1.654 χ^2 /NDF: 4.6/2
 In: 194.790 $\pm$ 0.928 χ^2 /NDF:2909.9/23
 Out: 203.529 $\pm$ 0.816 χ^2 /NDF:6086.7/26
 All: 199.718 $\pm$ 0.613 χ^2 /NDF: 9046.7/50

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.559+/-1.150 χ^2/NDF : 431.3/17

Left Out: 5.394+/-0.688 χ^2/NDF : 526.5/24

Right Out: 5.174+/-0.993 χ^2/NDF : 707.9/20

Left In: 6.206+/-0.732 χ^2/NDF : 407.5/22

Left: 5.775+/-0.501 χ^2/NDF : 934.7/47

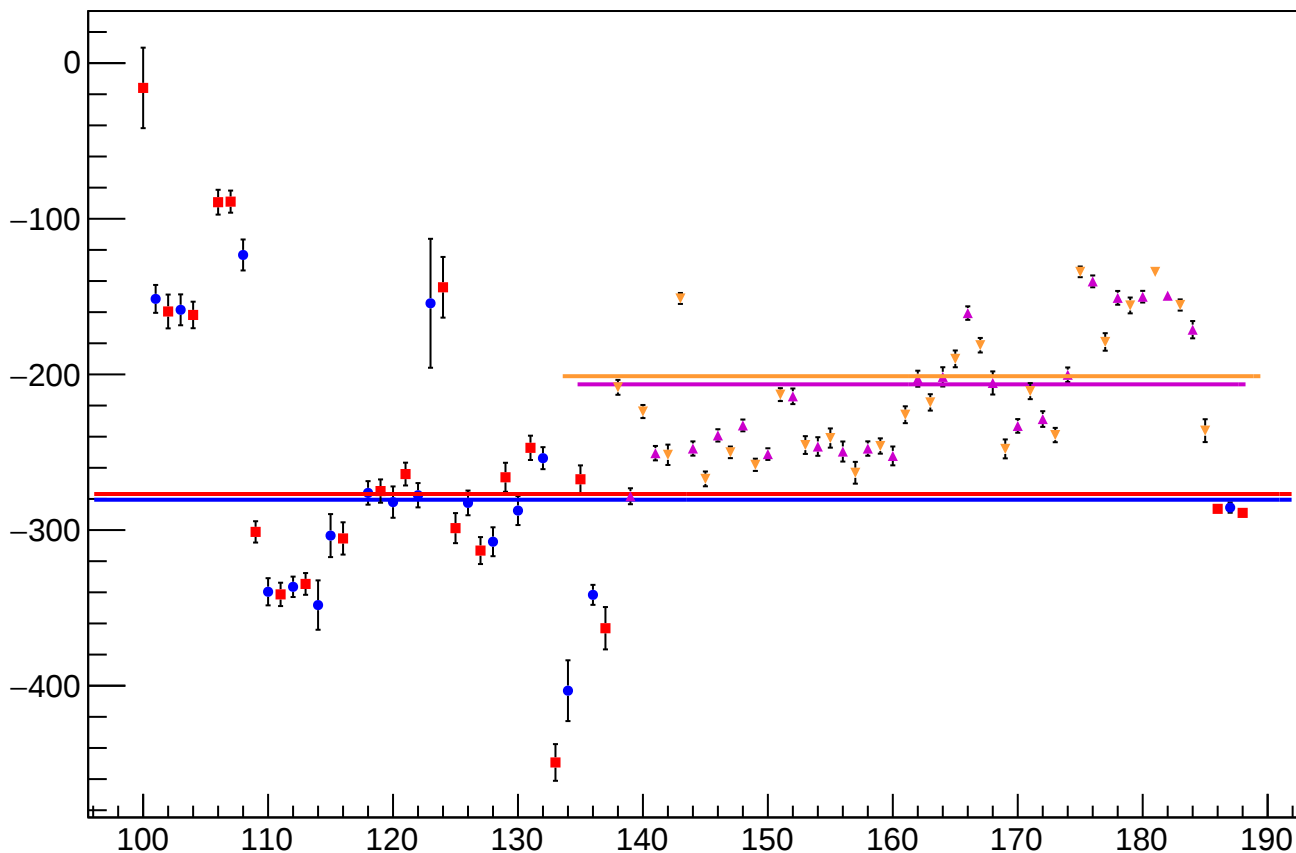
Right: 10.036+/-0.751 χ^2/NDF : 1195.4/38

In: 9.190+/-0.617 χ^2/NDF : 896.5/40

Out: 5.322+/-0.565 χ^2/NDF : 1234.4/45

All: 7.087+/-0.417 χ^2/NDF : 2152.3/86

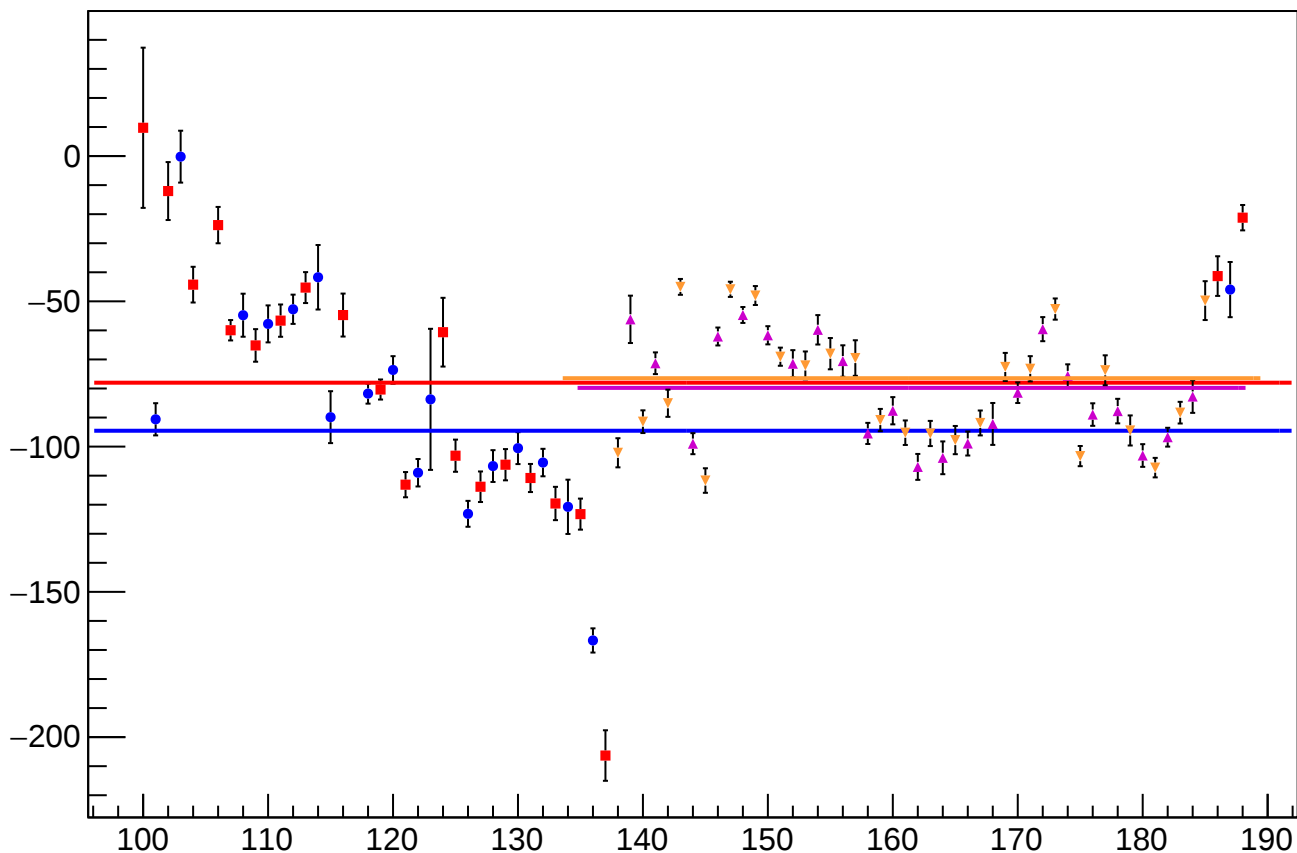
reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -280.517 ± 1.829 χ^2/NDF : 913.4/17
 Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24
 Right Out: -276.834 ± 1.181 χ^2/NDF : 2221.6/20
 Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47
 Right: -277.918 ± 0.992 χ^2/NDF : 3137.9/38
 In: -222.126 ± 0.843 χ^2/NDF : 4319.6/40
 Out: -229.658 ± 0.725 χ^2/NDF : 7272.4/45
 All: -226.456 ± 0.549 χ^2/NDF : 11637.9/86

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -94.543 ± 1.330 χ^2/NDF : 695.9/17

Left Out: -76.460 ± 0.797 χ^2/NDF : 781.3/24

Right Out: -78.005 ± 1.191 χ^2/NDF : 1002.0/20

Left In: -79.792 ± 0.840 χ^2/NDF : 412.3/22

Left: -78.038 ± 0.578 χ^2/NDF : 1201.9/47

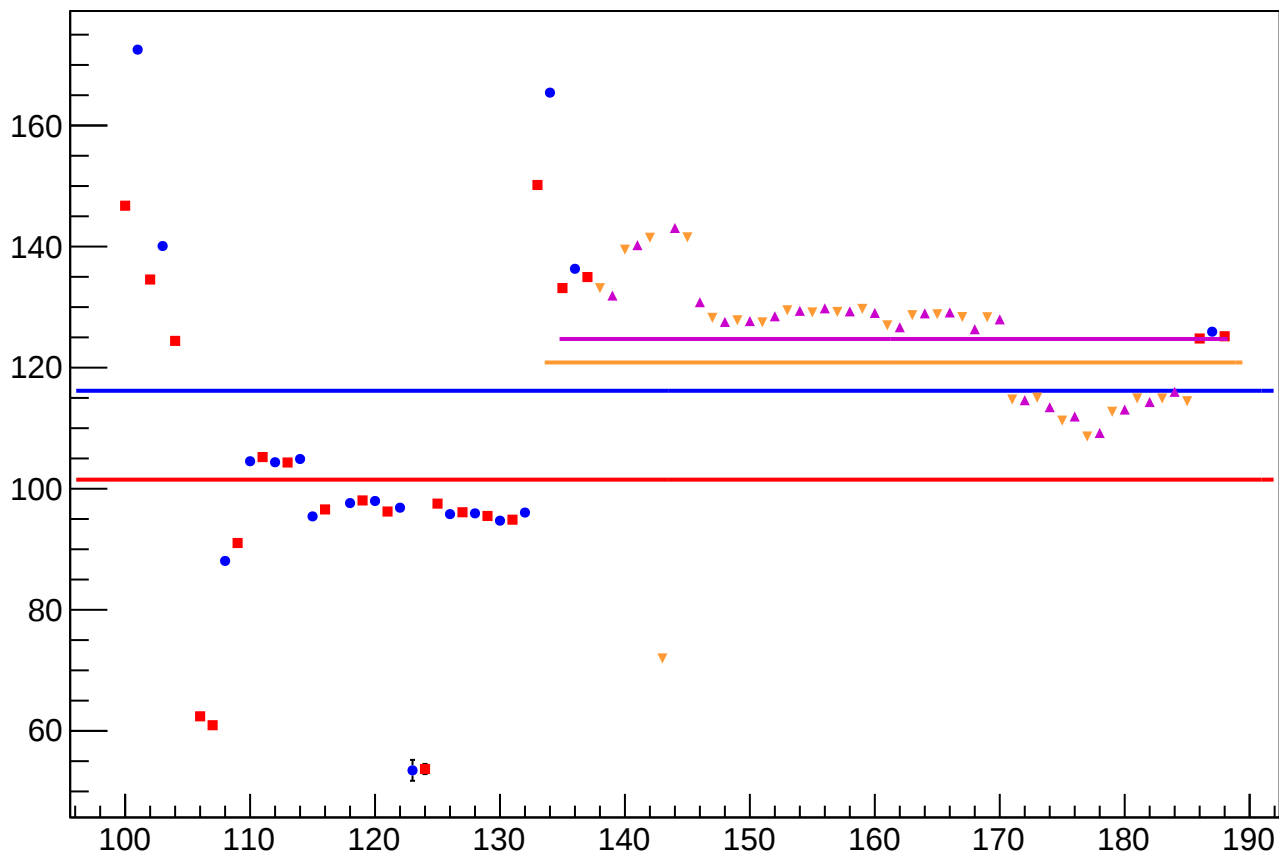
Right: -85.363 ± 0.887 χ^2/NDF : 1783.6/38

In: -83.995 ± 0.710 χ^2/NDF : 1196.1/40

Out: -76.937 ± 0.662 χ^2/NDF : 1784.5/45

All: -80.220 ± 0.484 χ^2/NDF : 3033.4/86

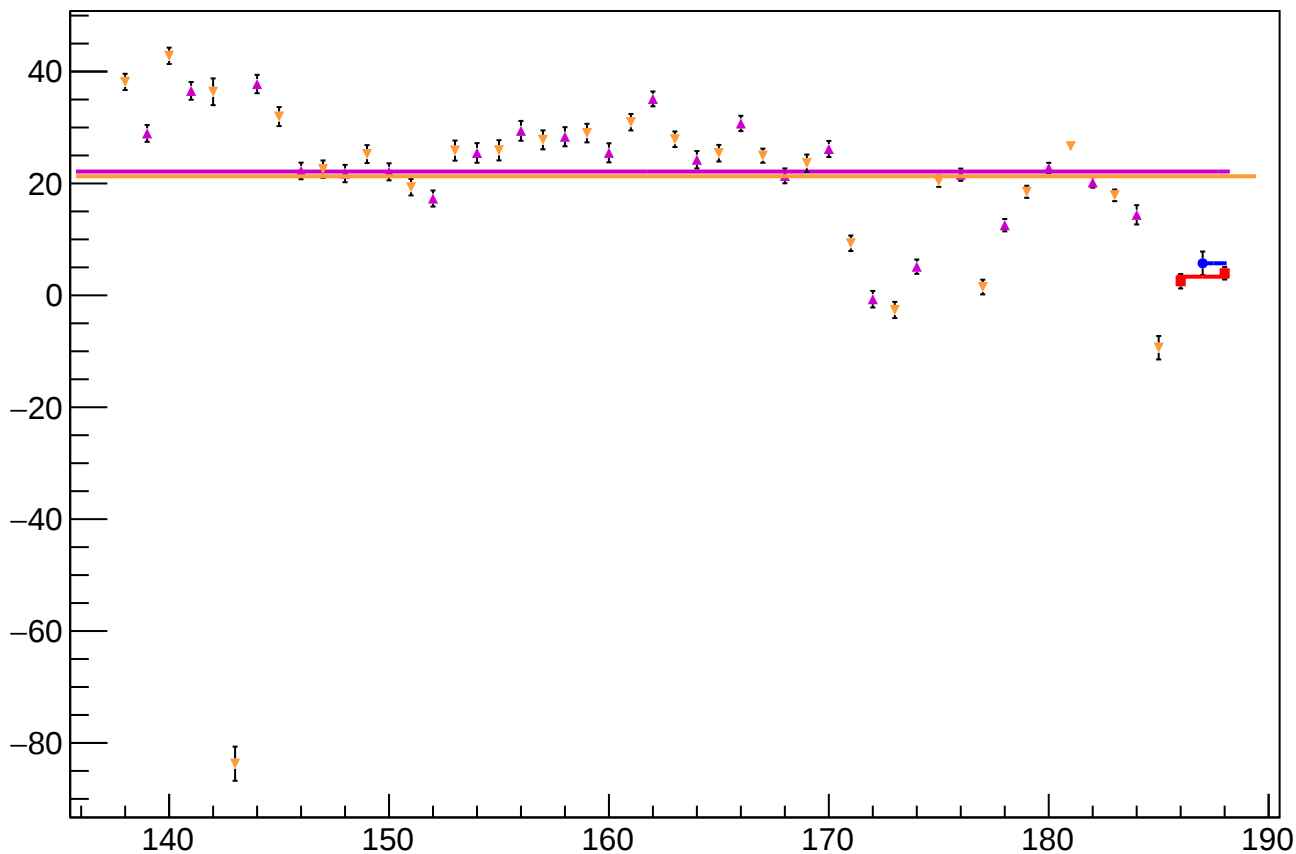
reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 116.182 $\pm$ 0.078 χ^2 /NDF: 105993.2/17
 Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24
 Right Out: 101.500 $\pm$ 0.065 χ^2 /NDF: 186959.4/20
 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: 107.568 $\pm$ 0.050 χ^2 /NDF: 313895.7/38
 In: 122.999 $\pm$ 0.035 χ^2 /NDF:166949.8/40
 Out: 115.940 $\pm$ 0.033 χ^2 /NDF:435414.7/45
 All: 119.245 $\pm$ 0.024 χ^2 /NDF: 623957.6/86

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.730 ± 2.097 χ^2/NDF : 0.0/0

Left Out: 21.282 ± 0.282 χ^2/NDF : 2600.5/24

Right Out: 3.337 ± 0.844 χ^2/NDF : 0.7/1

Left In: 22.127 ± 0.285 χ^2/NDF : 900.2/22

Left: 21.700 ± 0.201 χ^2/NDF : 3505.2/47

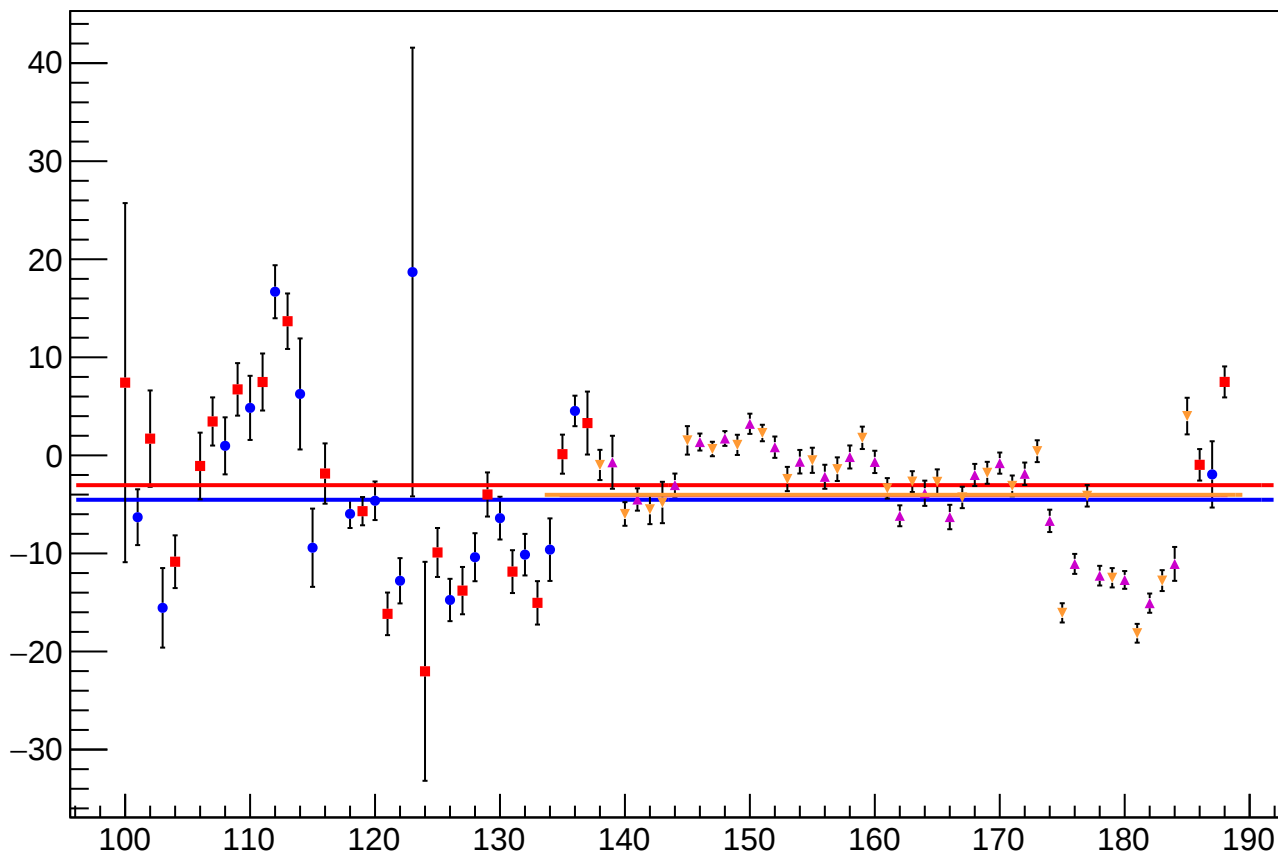
Right: 3.670 ± 0.783 χ^2/NDF : 1.8/2

In: 21.828 ± 0.283 χ^2/NDF : 960.3/23

Out: 19.476 ± 0.268 χ^2/NDF : 3007.4/26

All: 20.588 ± 0.194 χ^2/NDF : 4004.2/50

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.528 ± 0.580 χ^2/NDF : 174.0/17

Left Out: -4.022 ± 0.223 χ^2/NDF : 734.1/24

Right Out: -3.038 ± 0.520 χ^2/NDF : 247.0/20

Left In: -4.059 ± 0.228 χ^2/NDF : 577.2/22

Left: -4.040 ± 0.159 χ^2/NDF : 1311.4/47

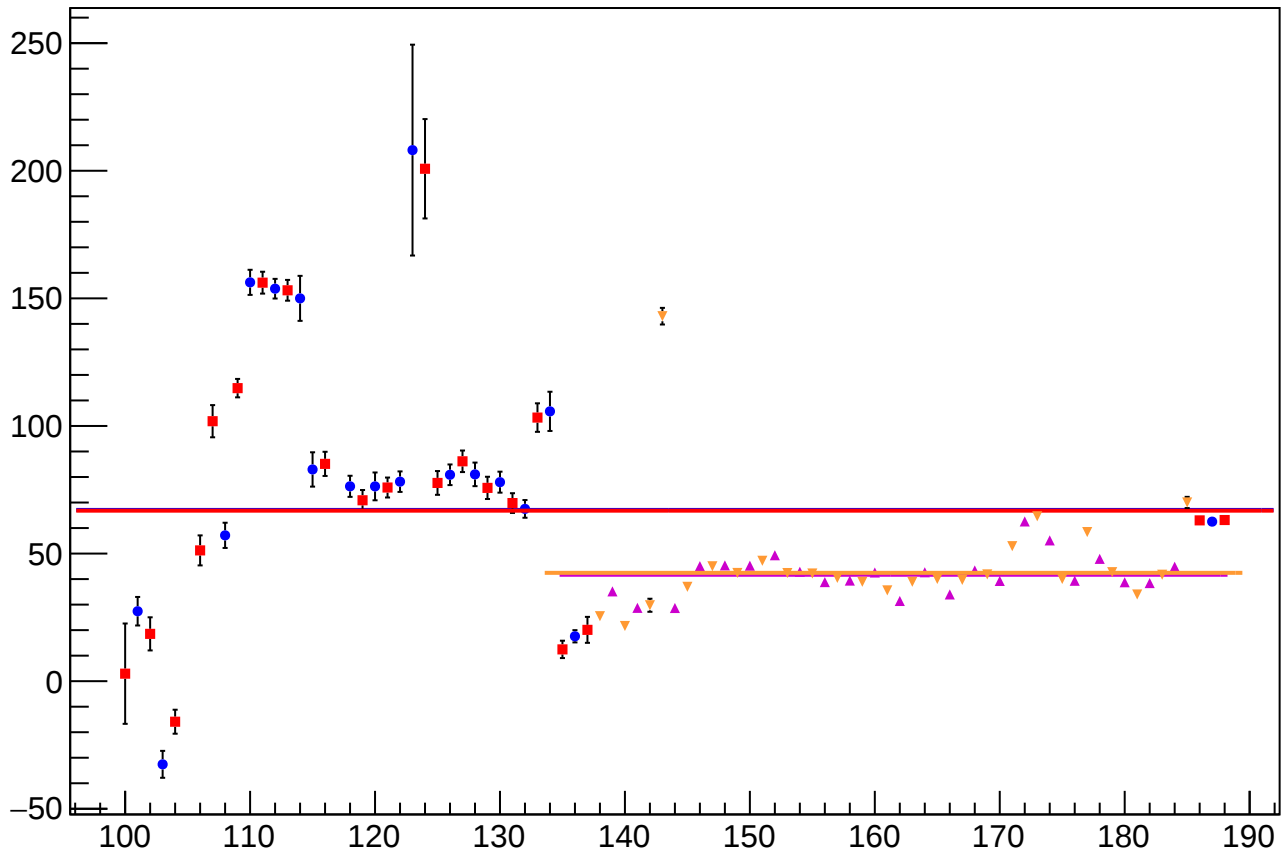
Right: -3.701 ± 0.387 χ^2/NDF : 424.6/38

In: -4.121 ± 0.212 χ^2/NDF : 751.8/40

Out: -3.869 ± 0.205 χ^2/NDF : 984.1/45

All: -3.991 ± 0.147 χ^2/NDF : 1736.6/86

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 67.101+/-0.919 χ^2/NDF : 1853.9/17

Left Out: 42.452+/-0.282 χ^2/NDF : 2016.0/24

Right Out: 66.815+/-0.574 χ^2/NDF : 1986.6/20

Left In: 41.695+/-0.284 χ^2/NDF : 630.2/22

Left: 42.077+/-0.200 χ^2/NDF : 2649.8/47

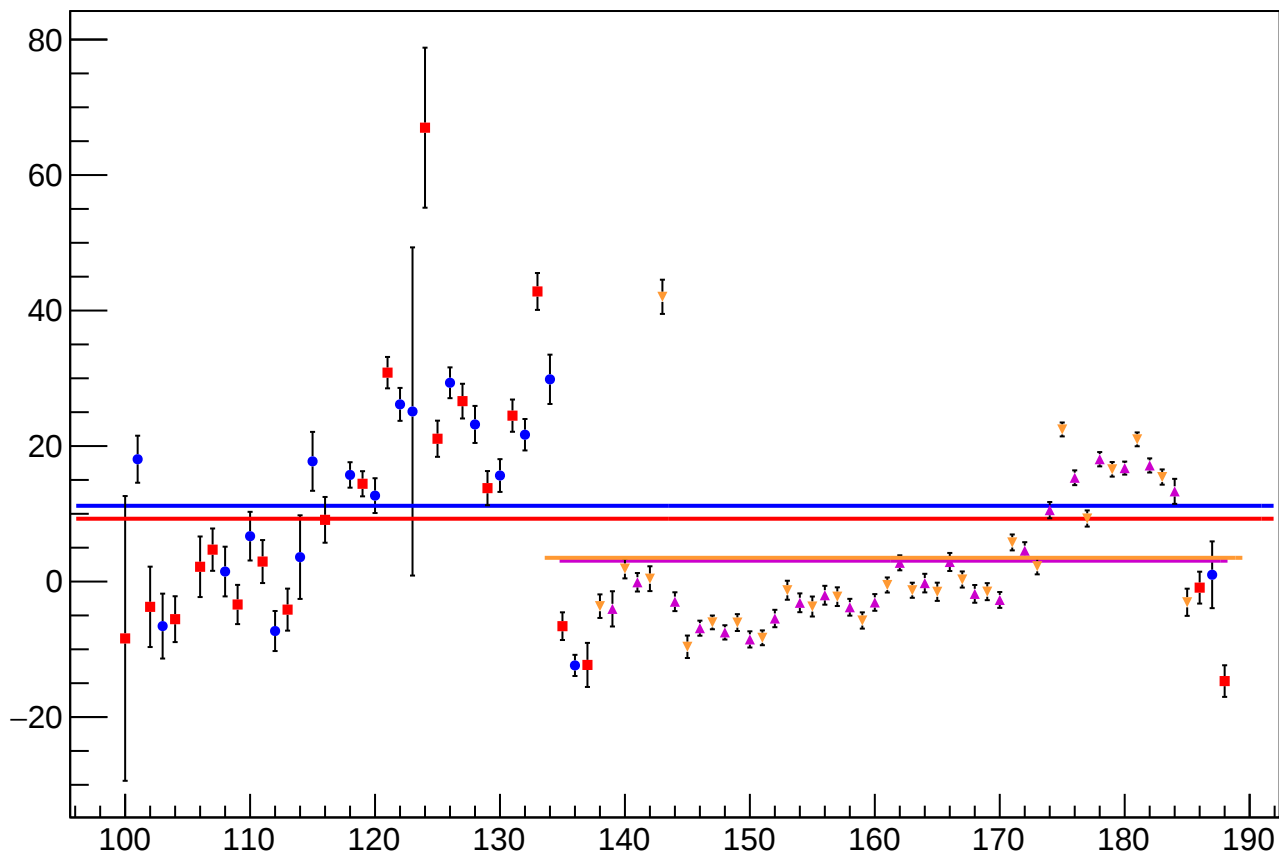
Right: 66.895+/-0.487 χ^2/NDF : 3840.5/38

In: 43.913+/-0.271 χ^2/NDF : 3182.2/40

Out: 47.187+/-0.253 χ^2/NDF : 5453.9/45

All: 45.665+/-0.185 χ^2/NDF : 8713.9/86

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.183 $\pm$ 0.661 χ^2 /NDF: 478.7/17

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 9.275 $\pm$ 0.617 χ^2 /NDF: 679.0/20

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

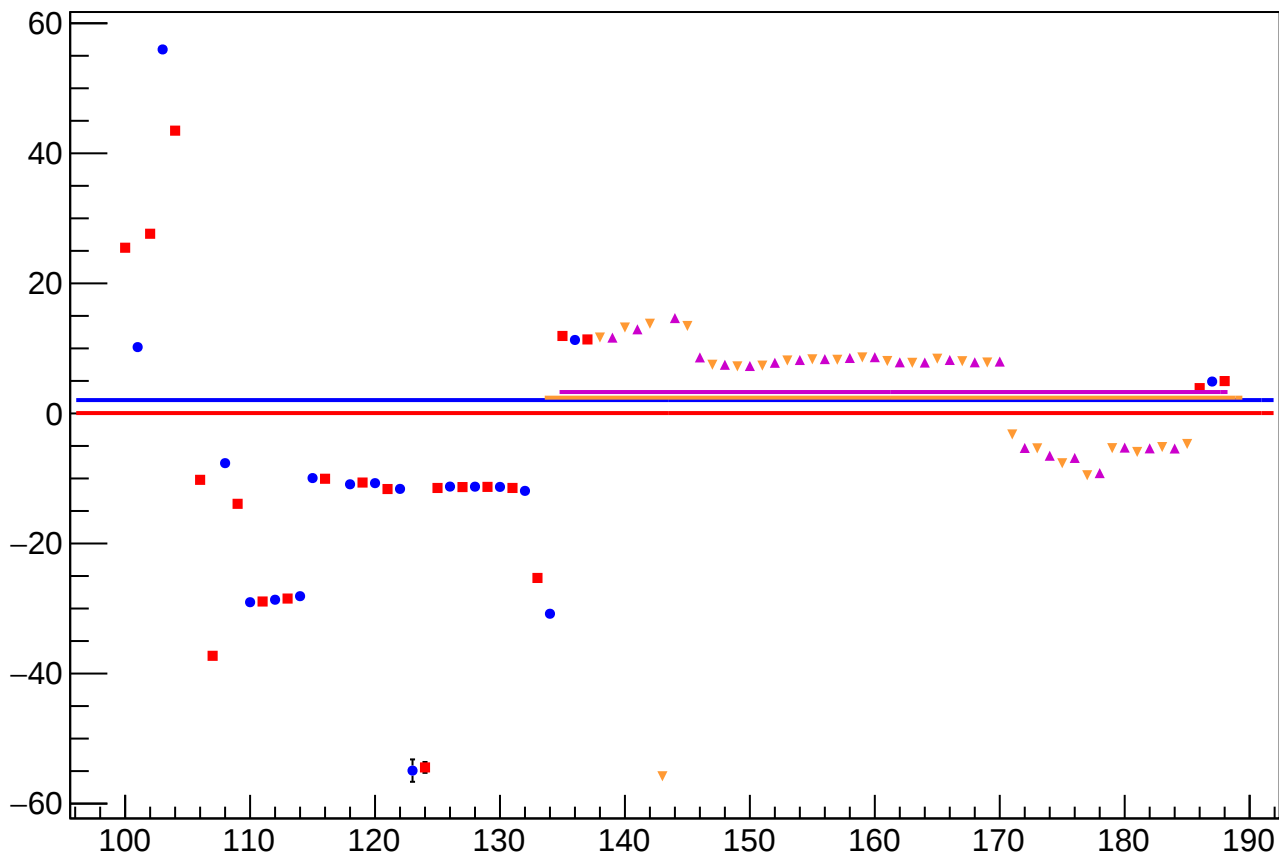
Right: 10.164 $\pm$ 0.451 χ^2 /NDF: 1162.2/38

In: 4.145 $\pm$ 0.240 χ^2 /NDF:1874.9/40

Out: 4.331 $\pm$ 0.234 χ^2 /NDF:2445.2/45

All: 4.241 $\pm$ 0.167 χ^2 /NDF: 4320.4/86

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.053 $\pm$ 0.037 χ^2 /NDF: 357979.8/17

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 0.055 $\pm$ 0.035 χ^2 /NDF: 363807.1/20

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

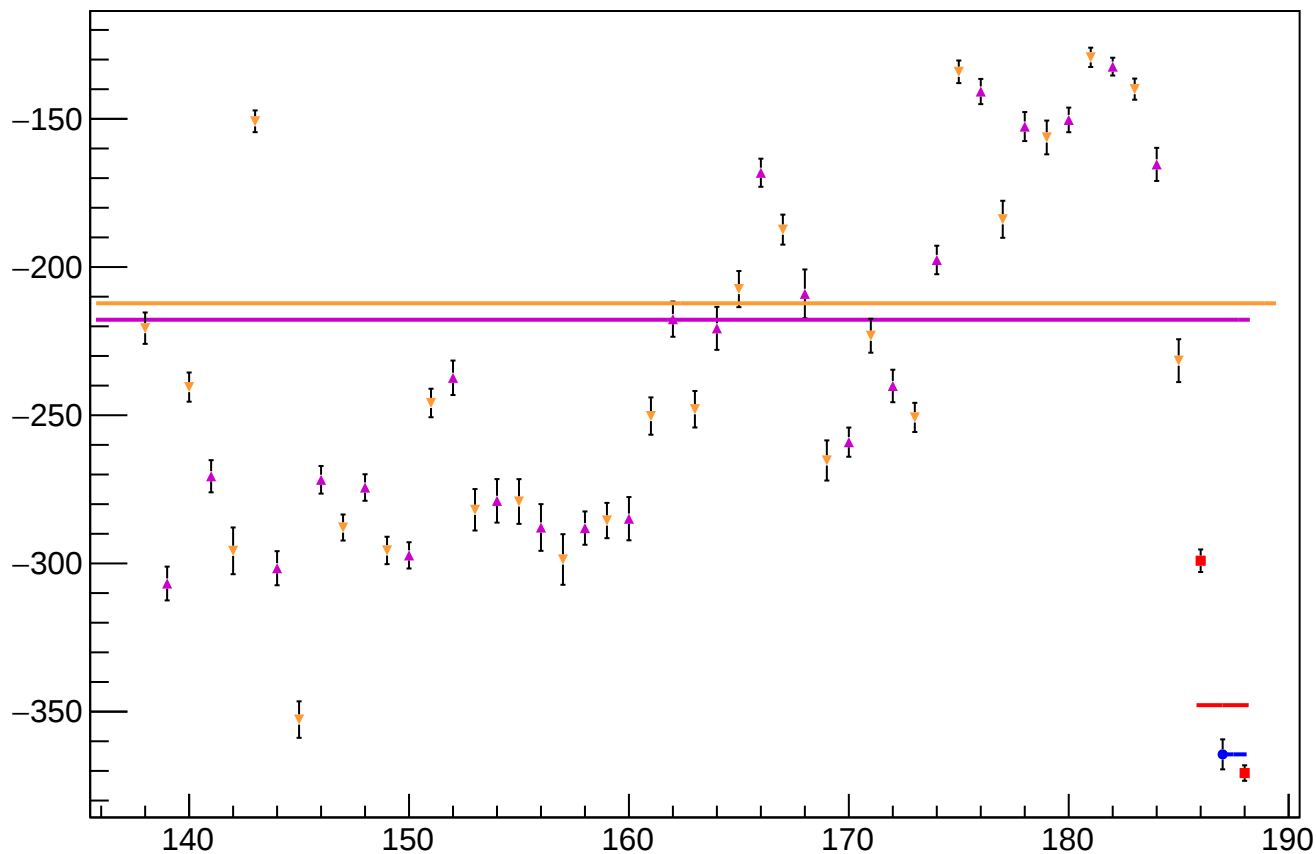
Right: 0.988 $\pm$ 0.025 χ^2 /NDF: 723352.8/38

In: 3.180 $\pm$ 0.011 χ^2 /NDF: 763330.3/40

Out: 2.186 $\pm$ 0.011 χ^2 /NDF: 984430.6/45

All: 2.676 $\pm$ 0.008 χ^2 /NDF: 1751814.9/86

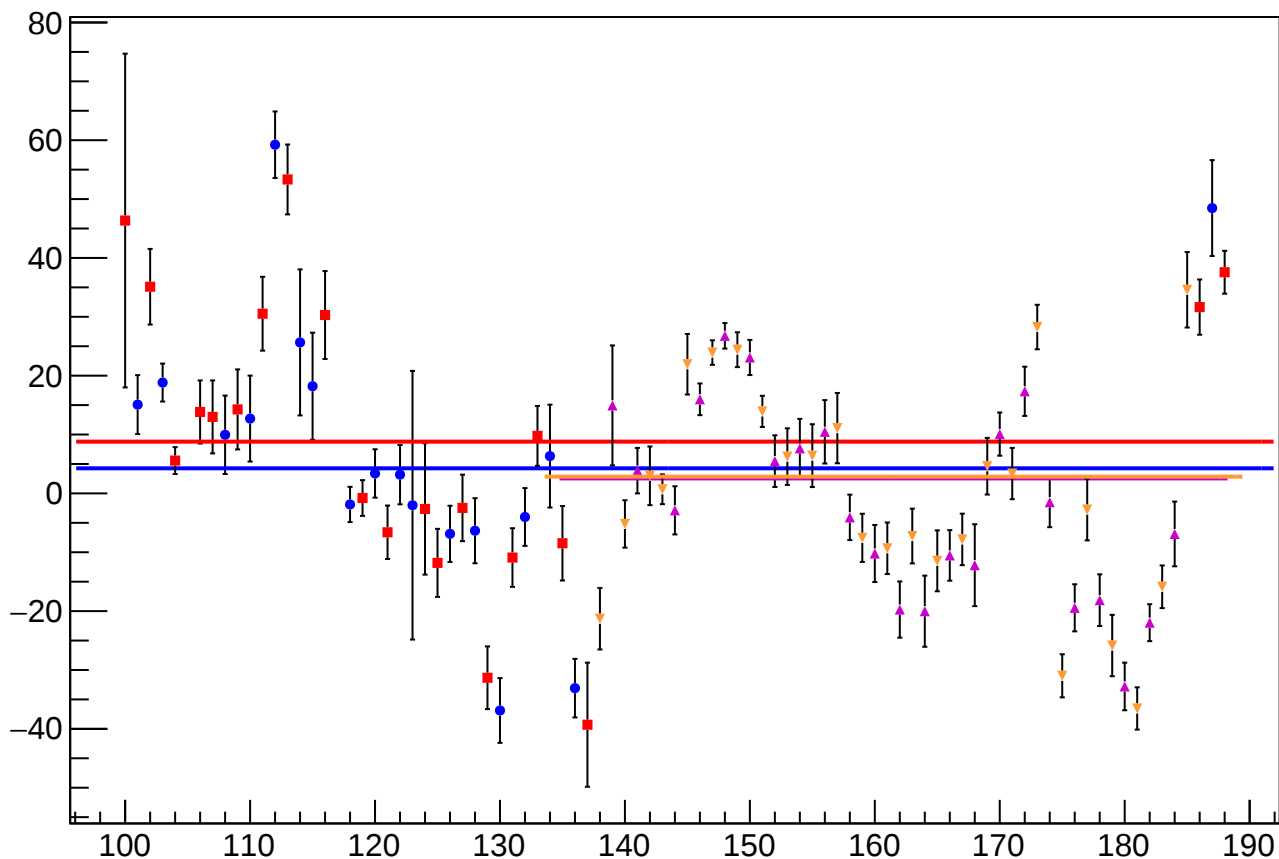
reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -364.416 ± 5.062 χ^2/NDF : 0.0/0
 Left Out: -212.231 ± 1.029 χ^2/NDF : 3875.4/24
 Right Out: -347.817 ± 2.154 χ^2/NDF : 240.5/1
 Left In: -217.779 ± 1.067 χ^2/NDF : 3448.9/22

Left: -214.906 ± 0.741 χ^2/NDF : 7338.3/47
 Right: -350.363 ± 1.982 χ^2/NDF : 249.6/2
 In: -224.015 ± 1.044 χ^2/NDF : 4252.5/23
 Out: -237.431 ± 0.929 χ^2/NDF : 7340.2/26
 All: -231.503 ± 0.694 χ^2/NDF : 11684.8/50

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.260+/-1.232 χ^2/NDF : 285.2/17

Left Out: 2.848+/-0.775 χ^2/NDF : 582.1/24

Right Out: 8.795+/-1.075 χ^2/NDF : 325.2/20

Left In: 2.540+/-0.822 χ^2/NDF : 473.6/22

Left: 2.703+/-0.564 χ^2/NDF : 1055.8/47

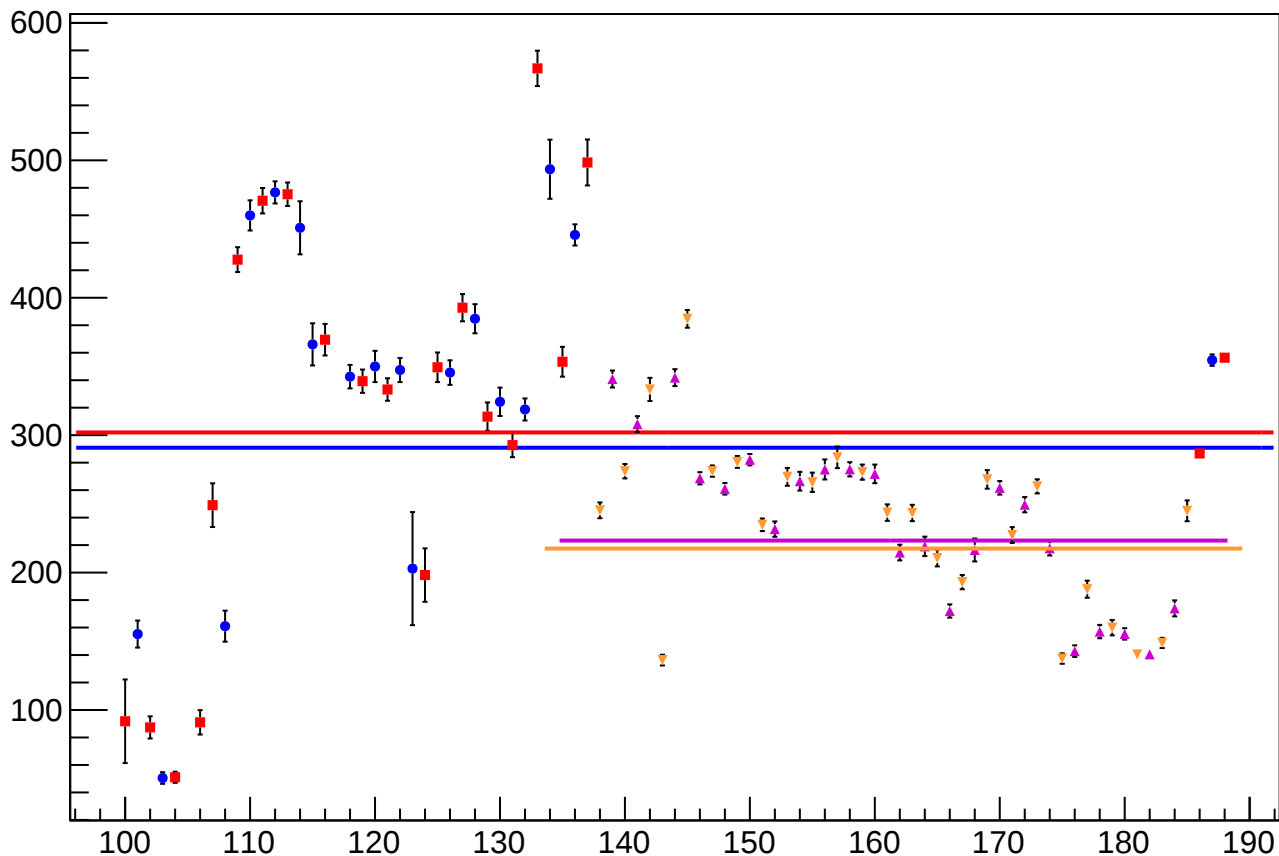
Right: 6.835+/-0.810 χ^2/NDF : 618.2/38

In: 3.071+/-0.684 χ^2/NDF : 760.2/40

Out: 4.882+/-0.628 χ^2/NDF : 927.5/45

All: 4.053+/-0.463 χ^2/NDF : 1691.5/86

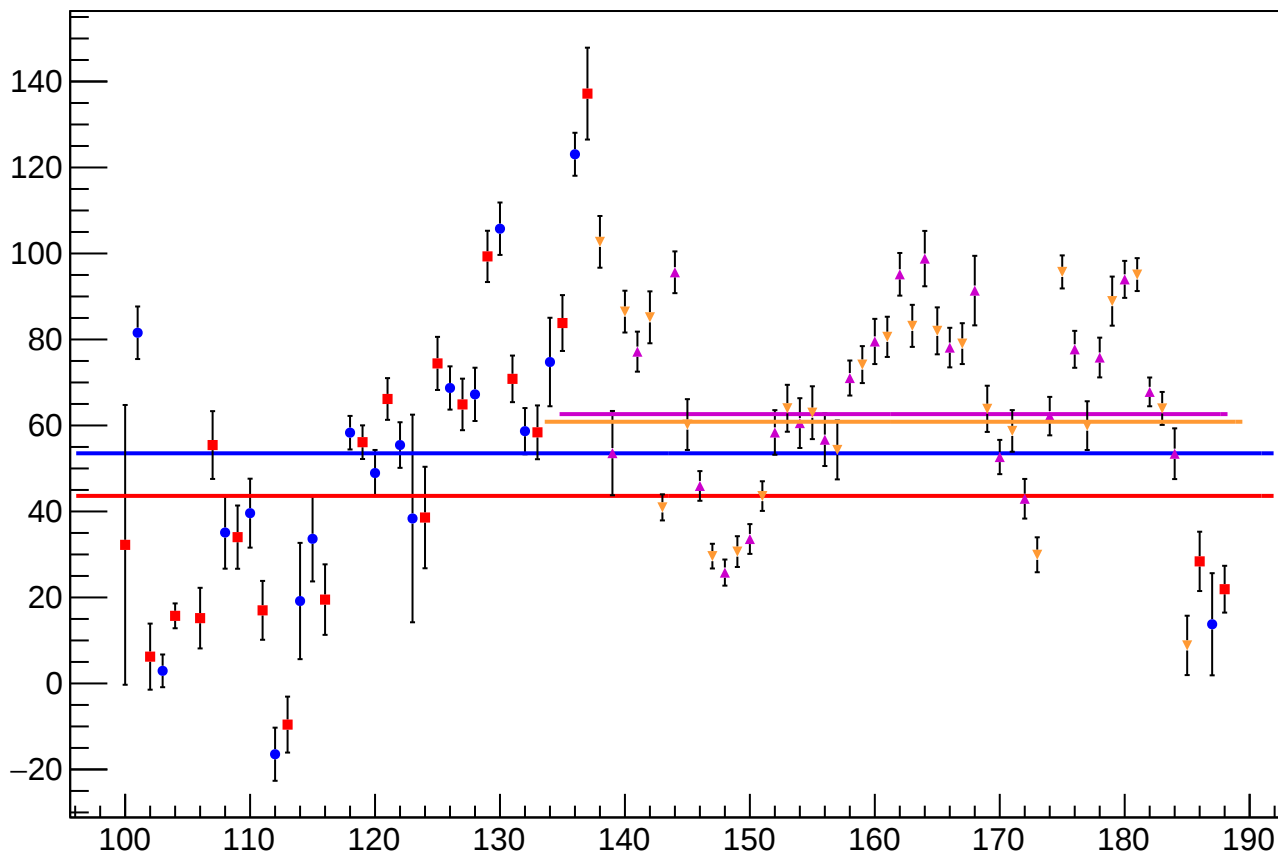
reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 290.863 $\pm$ 1.950 χ^2 /NDF: 5392.9/17
 Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF:3769.5/24
 Right Out: 302.004 $\pm$ 1.330 χ^2 /NDF: 7623.0/20
 Left In: 223.309 $\pm$ 1.062 χ^2 /NDF:3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2 /NDF: 7163.0/47
 Right: 298.468 $\pm$ 1.099 χ^2 /NDF: 13038.2/38
 In: 238.755 $\pm$ 0.933 χ^2 /NDF:9696.2/40
 Out: 249.267 $\pm$ 0.815 χ^2 /NDF:13913.1/45
 All: 244.713 $\pm$ 0.614 χ^2 /NDF: 23681.3/86

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 53.525 $\pm$ 1.430 χ^2 /NDF: 644.6/17

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 43.621 $\pm$ 1.295 χ^2 /NDF: 551.0/20

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

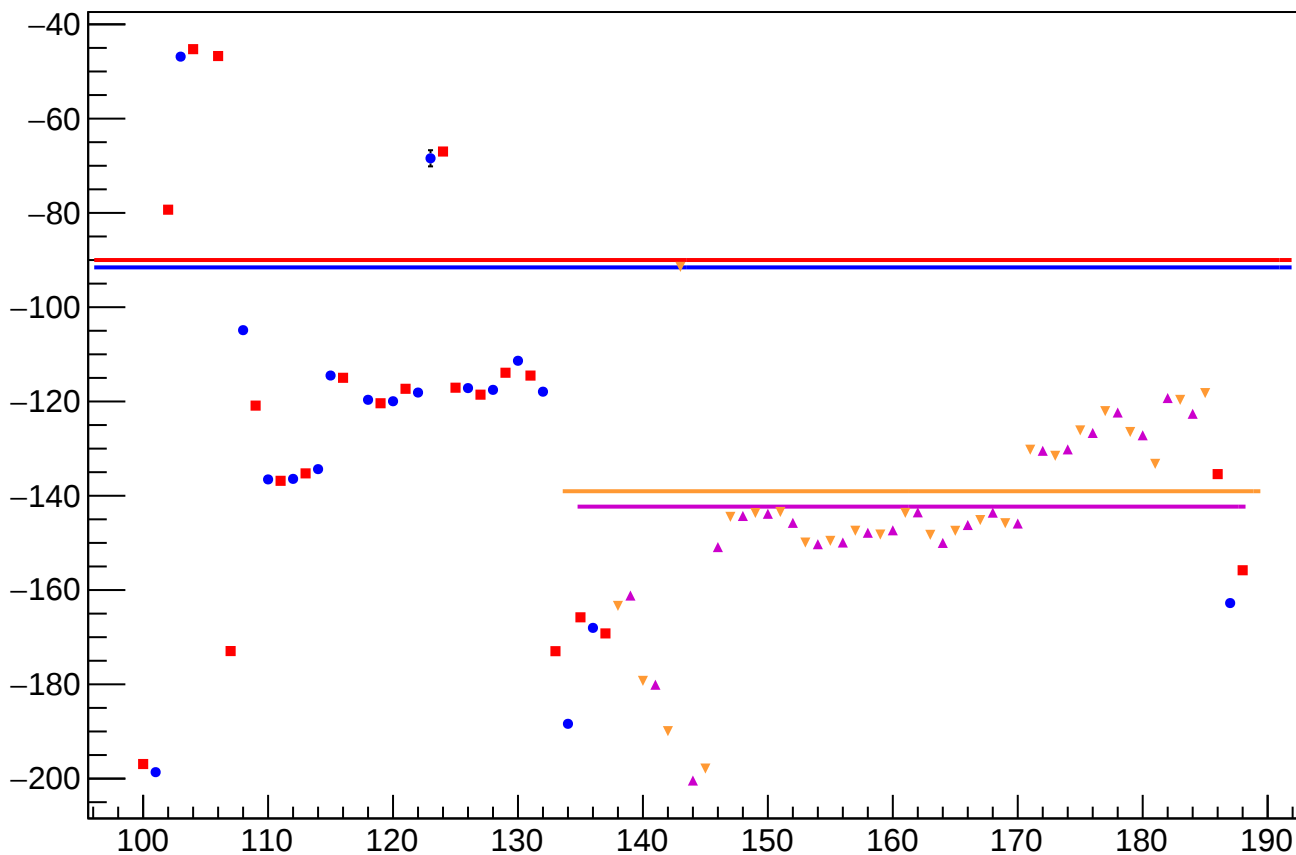
Right: 48.084 $\pm$ 0.960 χ^2 /NDF: 1222.0/38

In: 59.879 $\pm$ 0.787 χ^2 /NDF: 1188.4/40

Out: 55.277 $\pm$ 0.737 χ^2 /NDF: 1402.5/45

All: 57.428 $\pm$ 0.538 χ^2 /NDF: 2609.1/86

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -91.555 ± 0.067 $\chi^2/\text{NDF}: 544392.1/17$

Left Out: -139.040 ± 0.043 $\chi^2/\text{NDF}: 258113.4/24$

Right Out: -89.996 ± 0.063 $\chi^2/\text{NDF}: 561462.8/20$

Left In: -142.305 ± 0.044 $\chi^2/\text{NDF}: 143351.8/22$

Left: -140.627 ± 0.031 $\chi^2/\text{NDF}: 404285.9/47$

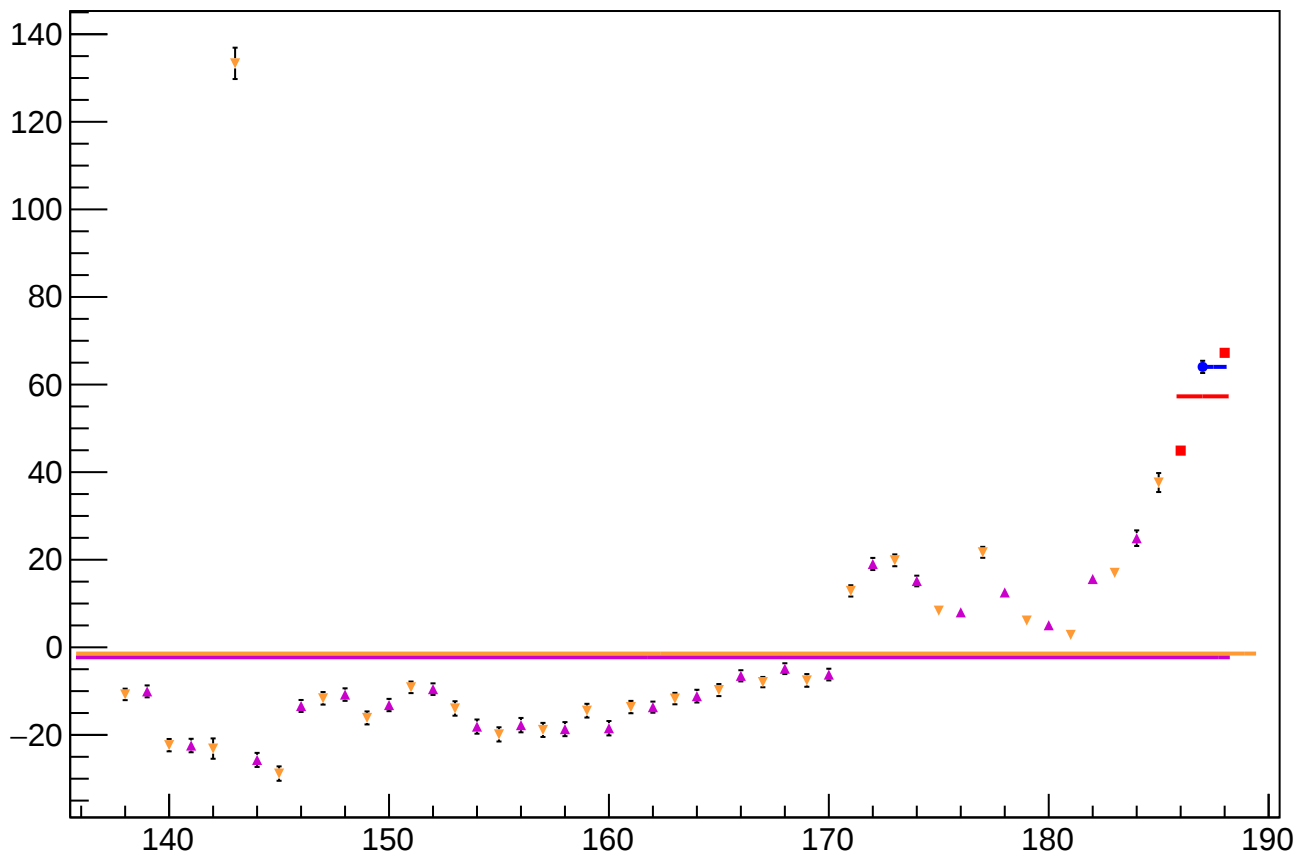
Right: -90.721 ± 0.046 $\chi^2/\text{NDF}: 1106140.7/38$

In: -127.123 ± 0.037 $\chi^2/\text{NDF}: 1084329.5/40$

Out: -123.488 ± 0.035 $\chi^2/\text{NDF}: 1234604.5/45$

All: -125.231 ± 0.026 $\chi^2/\text{NDF}: 2323982.5/86$

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 64.039+/-1.393 χ^2/NDF : 0.0/0

Left Out: -1.427+/-0.268 χ^2/NDF : 4339.0/24

Right Out: 57.309+/-0.577 χ^2/NDF : 369.9/1

Left In: -2.270+/-0.271 χ^2/NDF : 2521.6/22

Left: -1.844+/-0.190 χ^2/NDF : 6865.5/47

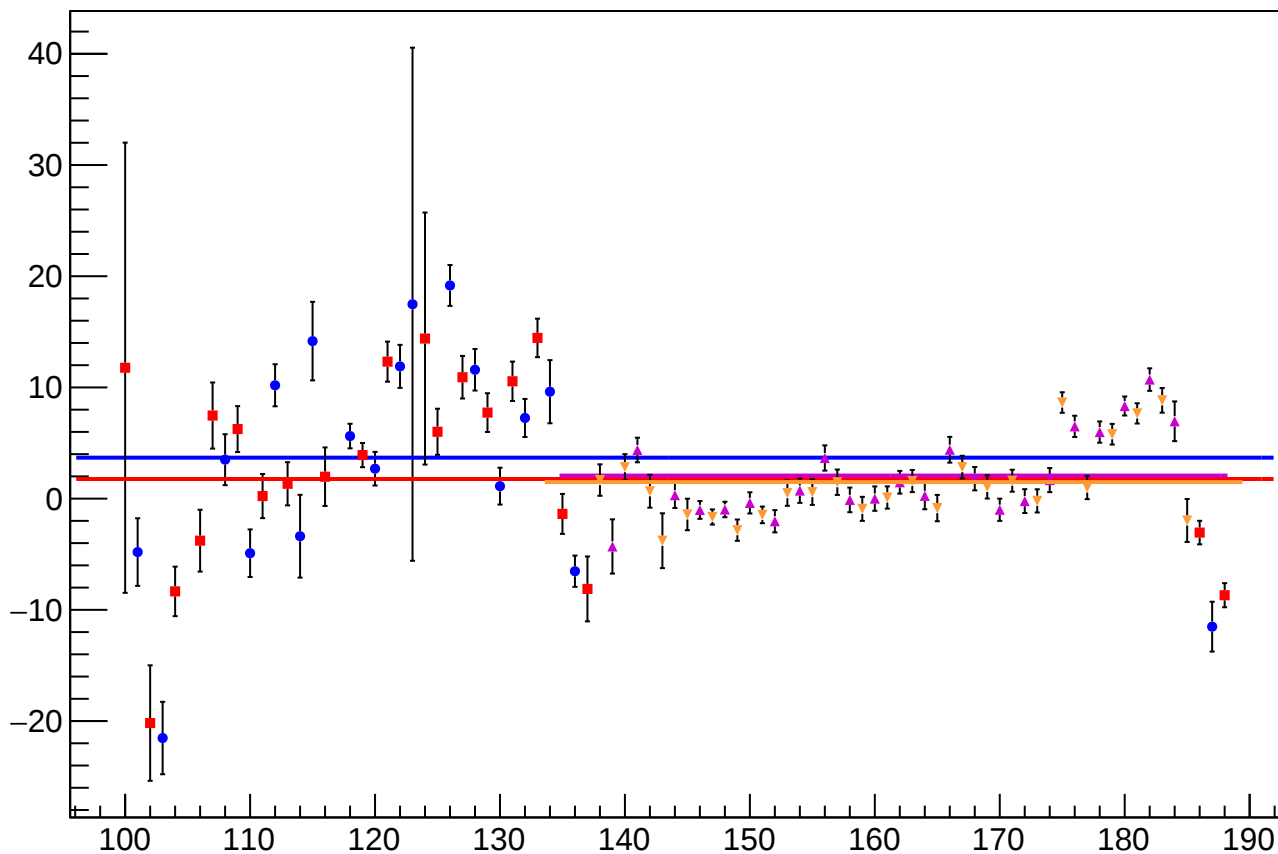
Right: 58.295+/-0.533 χ^2/NDF : 389.9/2

In: 0.144+/-0.266 χ^2/NDF : 4705.7/23

Out: 8.975+/-0.243 χ^2/NDF : 13238.8/26

All: 4.958+/-0.179 χ^2/NDF : 18546.3/50

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.684 $\pm$ 0.462 χ^2 /NDF: 328.7/17

Left Out: 1.491 $\pm$ 0.210 χ^2 /NDF:259.1/24

Right Out: 1.767 $\pm$ 0.402 χ^2 /NDF: 336.6/20

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

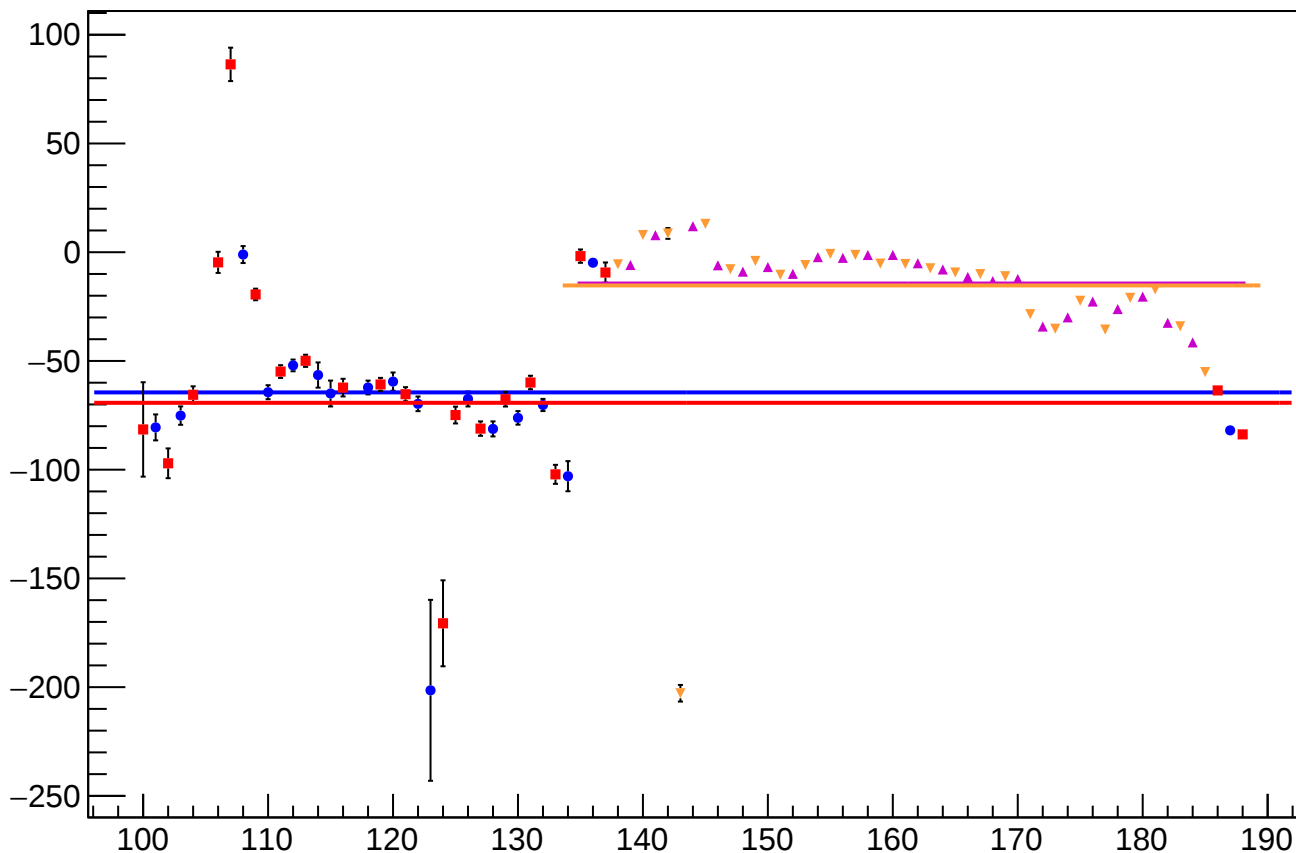
Right: 2.592 $\pm$ 0.303 χ^2 /NDF: 675.1/38

In: 2.362 $\pm$ 0.195 χ^2 /NDF:613.3/40

Out: 1.550 $\pm$ 0.186 χ^2 /NDF:596.1/45

All: 1.937 $\pm$ 0.135 χ^2 /NDF: 1218.3/86

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.462 ± 0.693 χ^2/NDF : 1382.0/17

Left Out: -15.279 ± 0.267 χ^2/NDF : 4820.1/24

Right Out: -69.248 ± 0.407 χ^2/NDF : 2407.8/20

Left In: -14.406 ± 0.269 χ^2/NDF : 2032.4/22

Left: -14.846 ± 0.189 χ^2/NDF : 6857.8/47

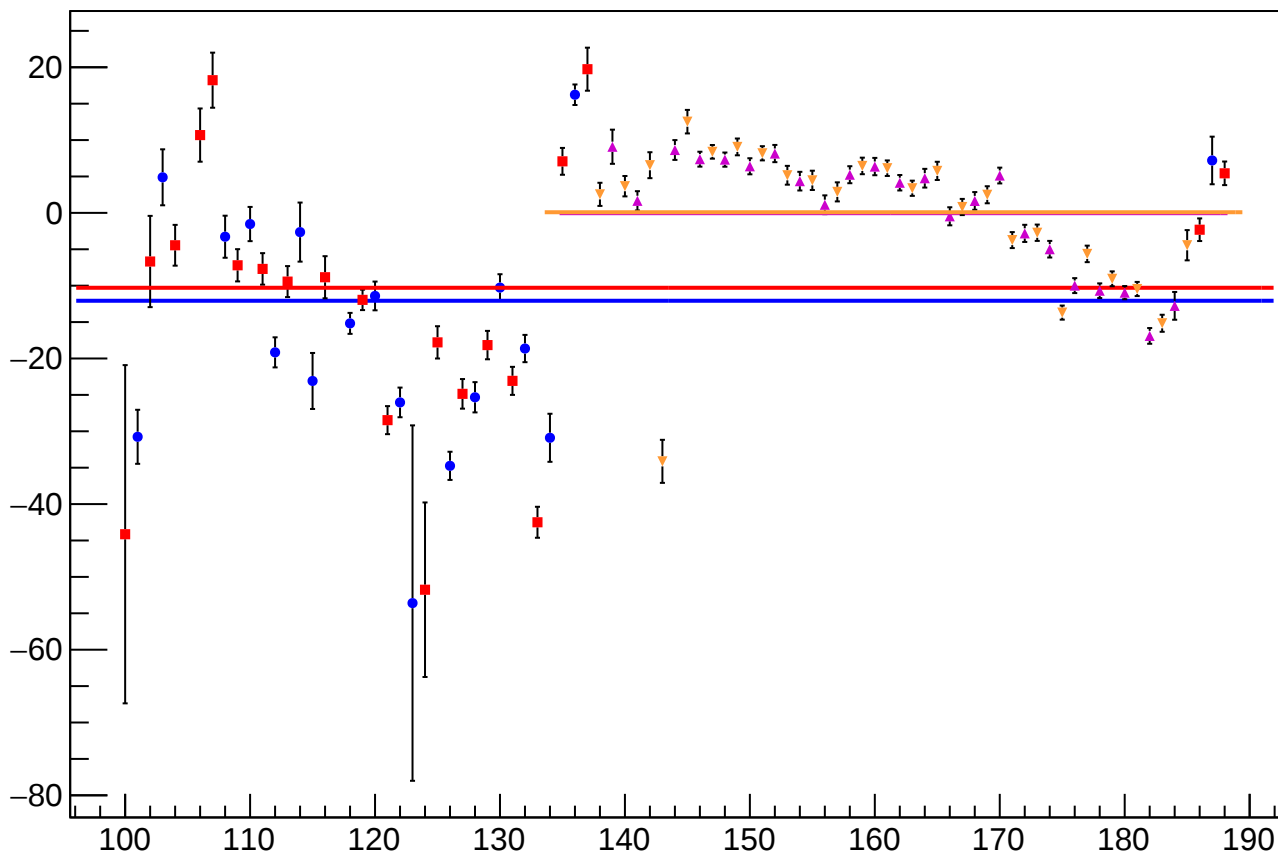
Right: -68.018 ± 0.351 χ^2/NDF : 3825.3/38

In: -20.971 ± 0.251 χ^2/NDF : 7952.4/40

Out: -31.474 ± 0.223 χ^2/NDF : 19507.3/45

All: -26.833 ± 0.167 χ^2/NDF : 28438.1/86

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -12.071 ± 0.530 $\chi^2/\text{NDF}: 815.4/17$

Left Out: 0.087 ± 0.238 $\chi^2/\text{NDF}: 1172.3/24$

Right Out: -10.287 ± 0.485 $\chi^2/\text{NDF}: 867.3/20$

Left In: -0.044 ± 0.243 $\chi^2/\text{NDF}: 1028.2/22$

Left: 0.023 ± 0.170 $\chi^2/\text{NDF}: 2200.6/47$

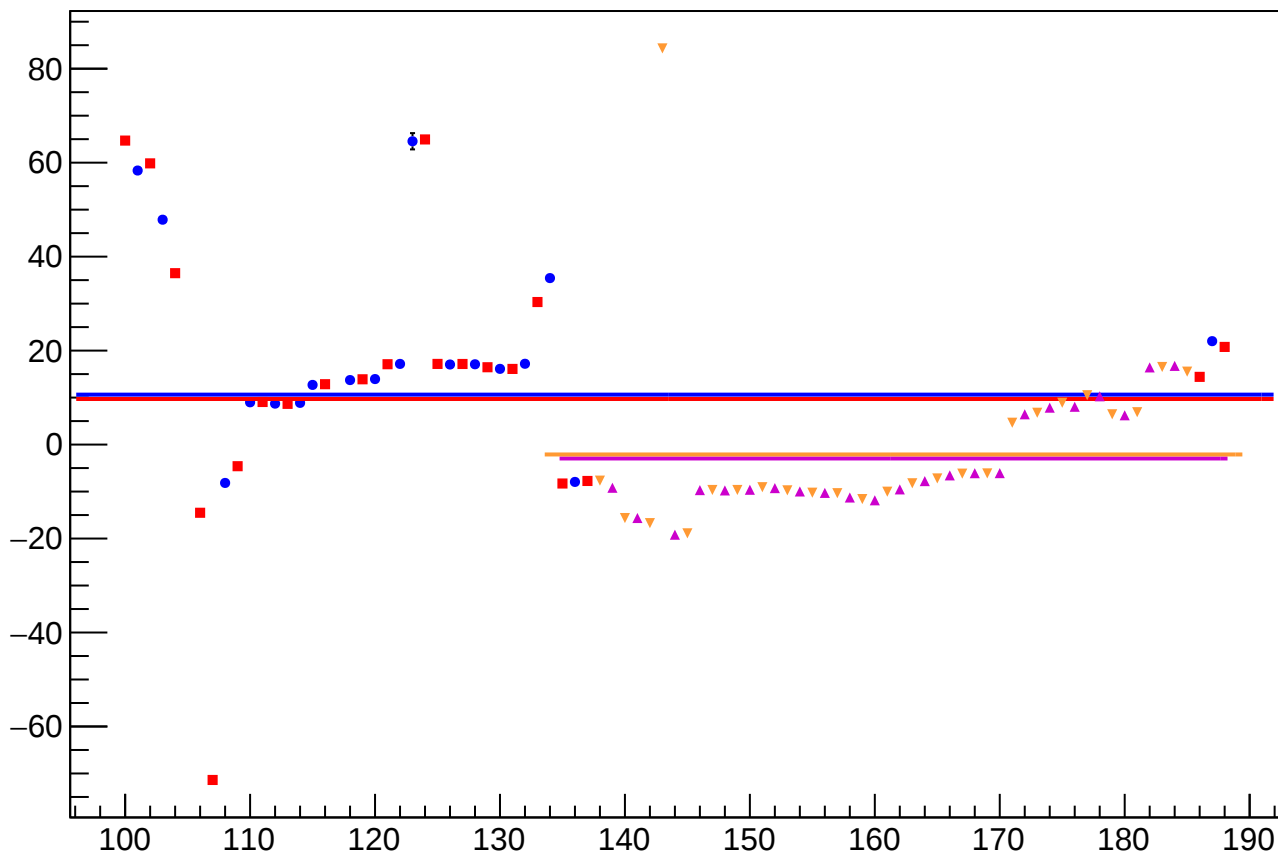
Right: -11.100 ± 0.358 $\chi^2/\text{NDF}: 1688.9/38$

In: -2.131 ± 0.221 $\chi^2/\text{NDF}: 2268.4/40$

Out: -1.927 ± 0.214 $\chi^2/\text{NDF}: 2407.6/45$

All: -2.025 ± 0.154 $\chi^2/\text{NDF}: 4676.5/86$

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 10.629+/-0.030 χ^2/NDF : 384631.2/17

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 9.702+/-0.028 χ^2/NDF : 567195.3/20

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

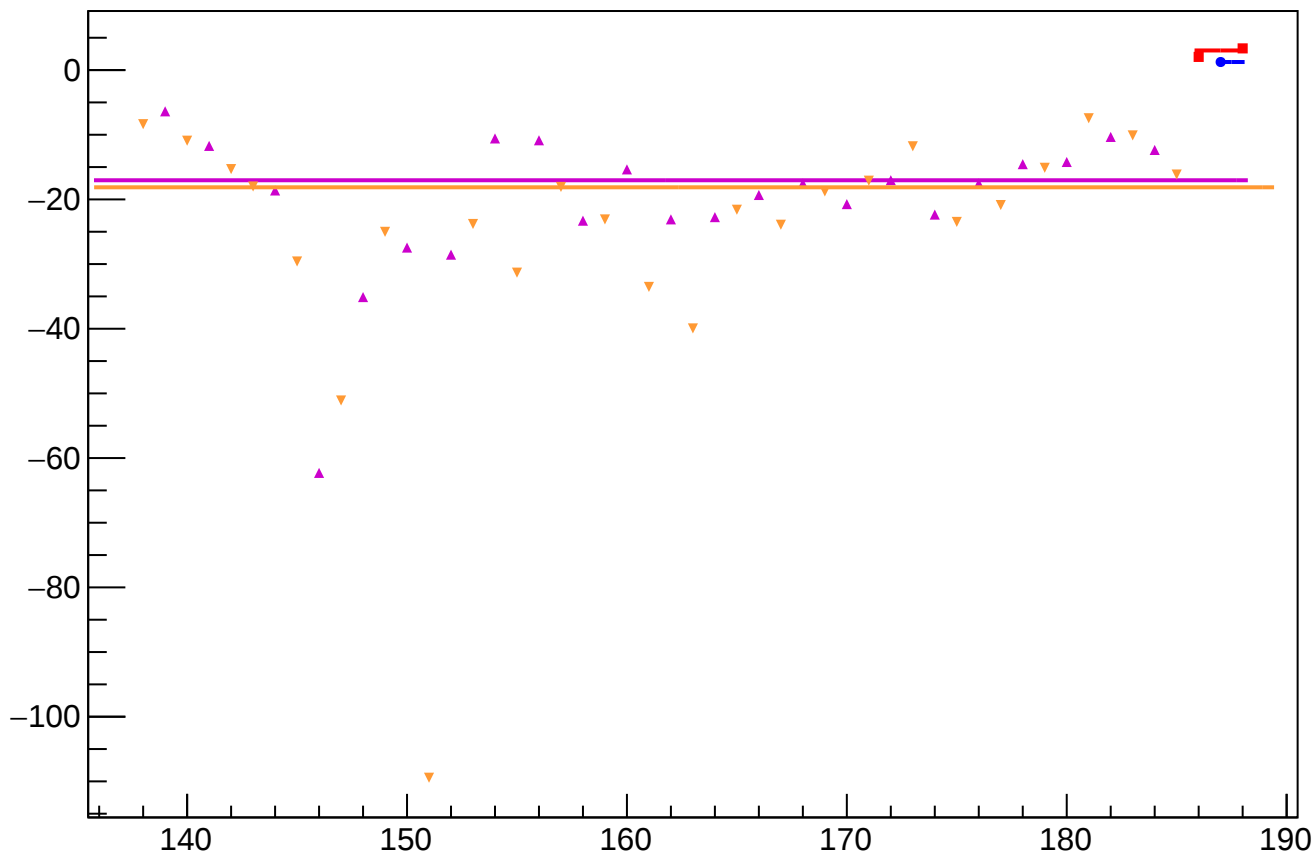
Right: 10.135+/-0.021 χ^2/NDF : 952324.6/38

In: -1.377+/-0.010 χ^2/NDF : 1325230.9/40

Out: -0.581+/-0.010 χ^2/NDF : 1811119.9/45

All: -0.973+/-0.007 χ^2/NDF : 3139353.4/86

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.248+/-0.282 χ^2/NDF : 0.0/0

Left Out: -18.128+/-0.039 χ^2/NDF : 88551.6/24

Right Out: 3.035+/-0.096 χ^2/NDF : 34.7/1

Left In: -17.038+/-0.038 χ^2/NDF : 44141.1/22

Left: -17.572+/-0.027 χ^2/NDF : 133092.4/47

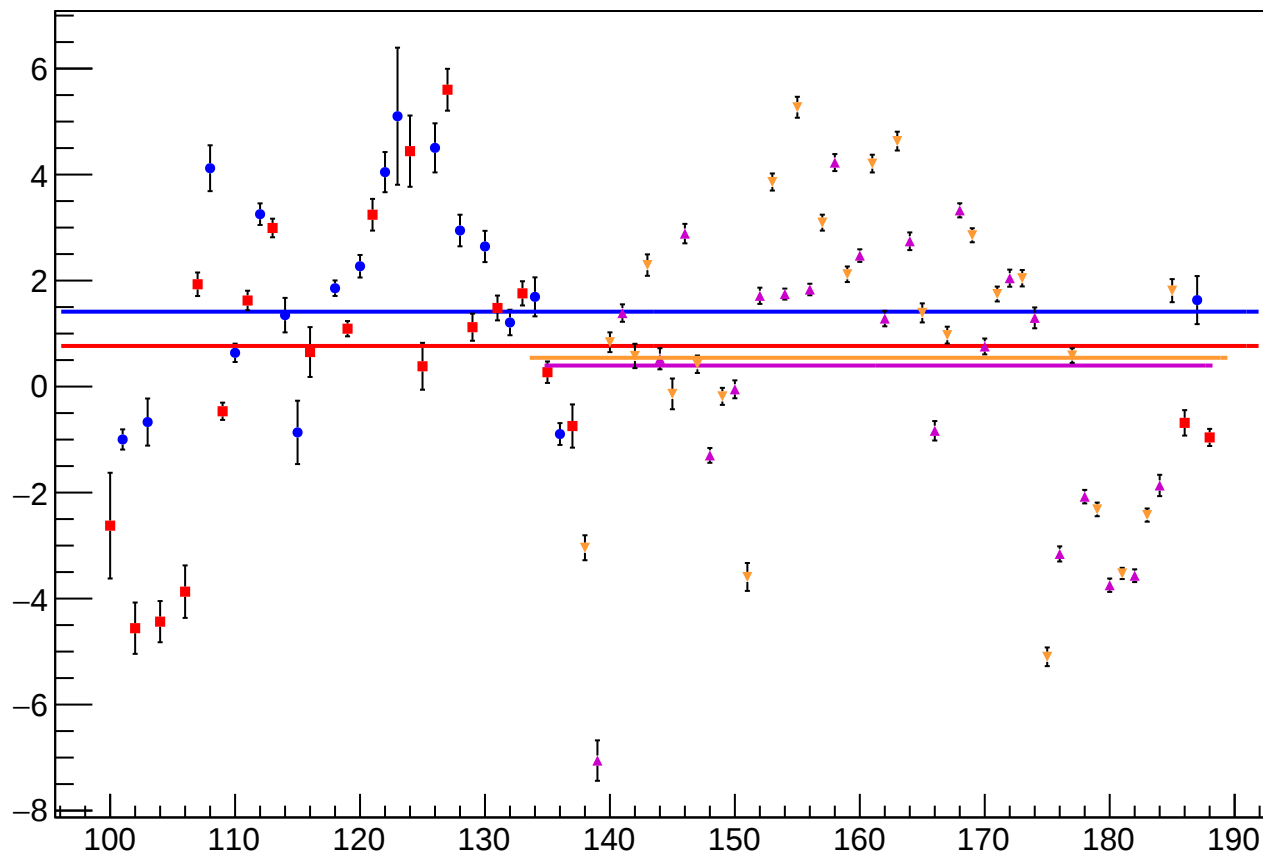
Right: 2.849+/-0.091 χ^2/NDF : 70.8/2

In: -16.709+/-0.038 χ^2/NDF : 48280.8/23

Out: -15.139+/-0.036 χ^2/NDF : 130355.2/26

All: -15.887+/-0.026 χ^2/NDF : 179538.7/50

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.413 $\pm$ 0.061 χ^2 /NDF: 634.8/17

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.767 $\pm$ 0.053 χ^2 /NDF: 1121.2/20

Left In: 0.397 $\pm$ 0.031 χ^2 /NDF: 6235.6/22

Left: 0.466 $\pm$ 0.022 χ^2 /NDF: 13331.6/47

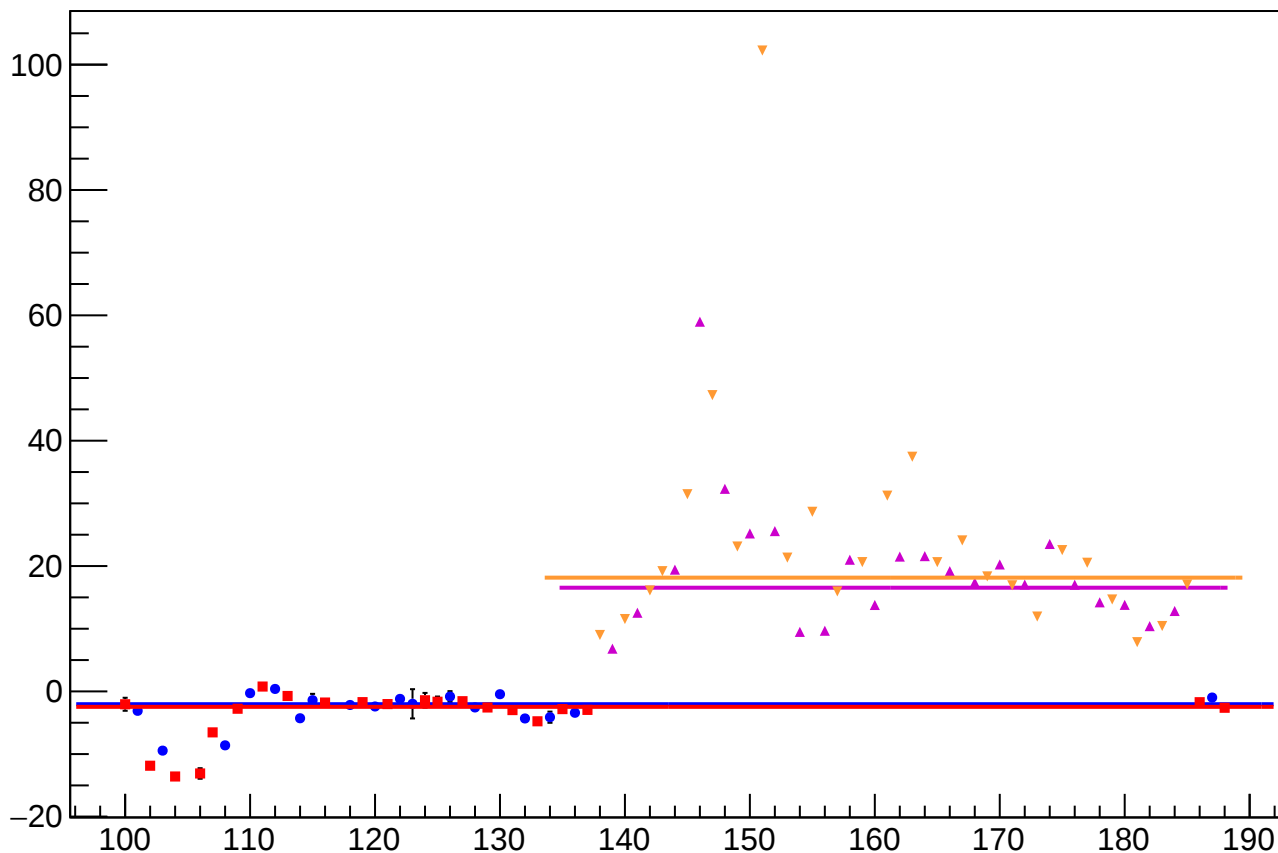
Right: 1.044 $\pm$ 0.040 χ^2 /NDF: 1819.2/38

In: 0.600 $\pm$ 0.027 χ^2 /NDF: 7089.0/40

Out: 0.603 $\pm$ 0.028 χ^2 /NDF: 8219.4/45

All: 0.602 $\pm$ 0.019 χ^2 /NDF: 15308.4/86

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.042 ± 0.100 $\chi^2/\text{NDF}: 473.6/17$

Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$

Right Out: -2.463 ± 0.061 $\chi^2/\text{NDF}: 918.3/20$

Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

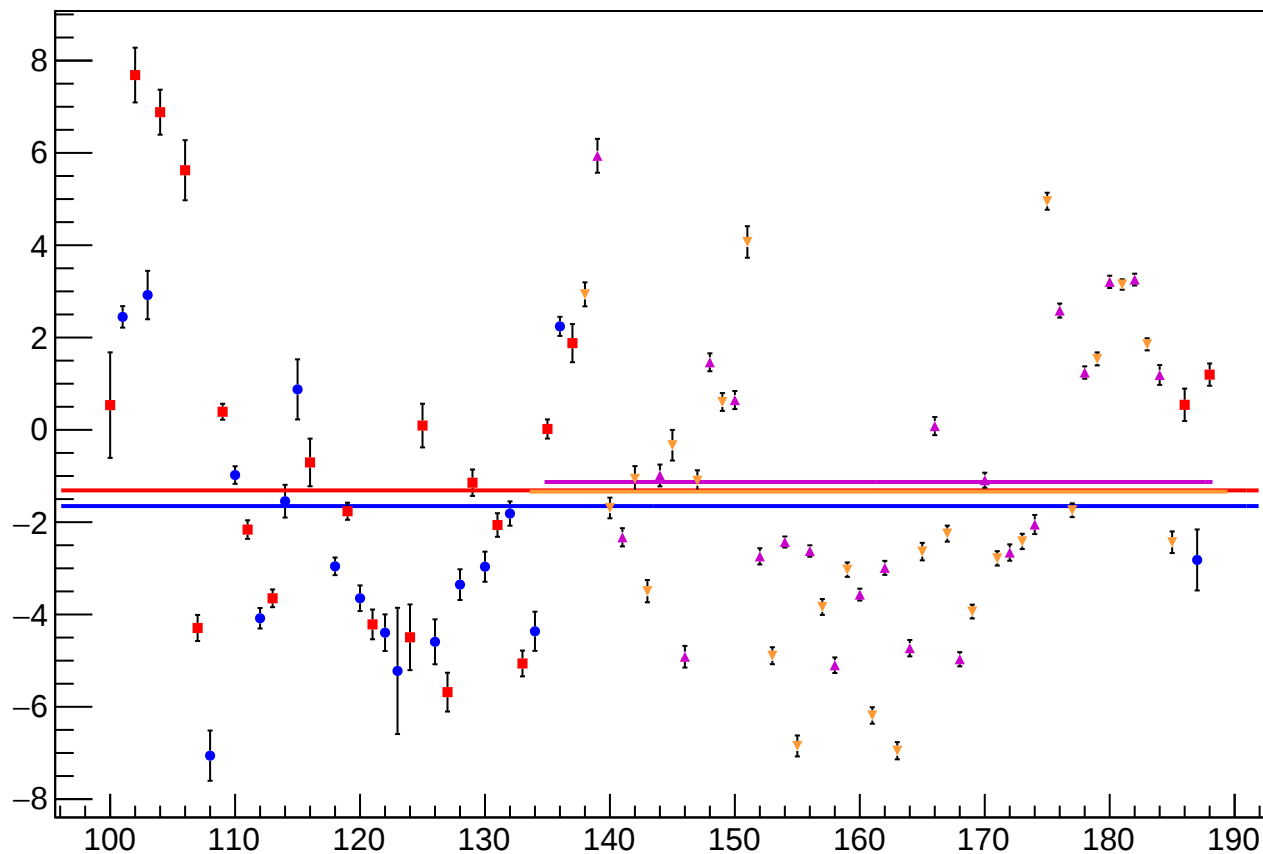
Right: -2.350 ± 0.052 $\chi^2/\text{NDF}: 1404.7/38$

In: 14.243 ± 0.035 $\chi^2/\text{NDF}: 71311.4/40$

Out: 12.129 ± 0.033 $\chi^2/\text{NDF}: 159970.6/45$

All: 13.110 ± 0.024 $\chi^2/\text{NDF}: 233198.1/86$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



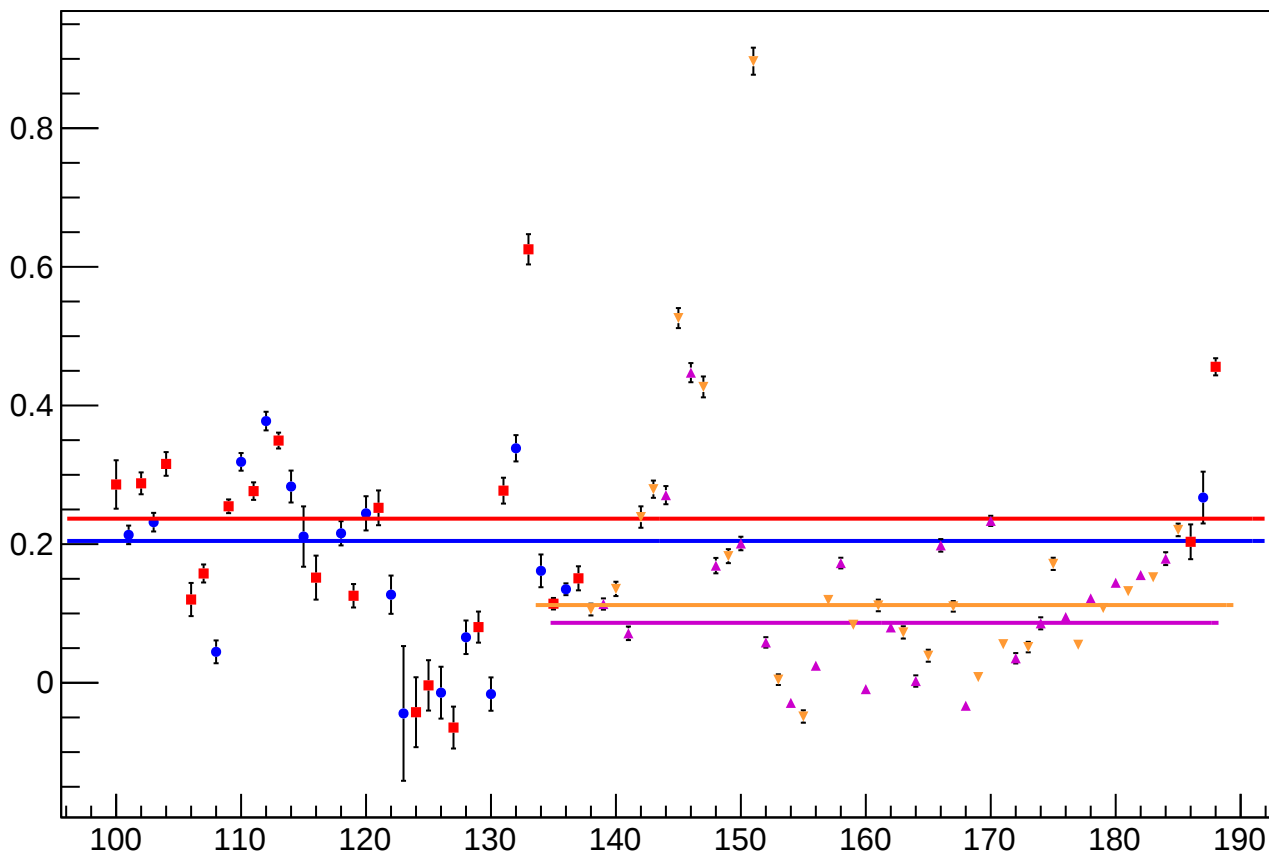
Right In: -1.651 ± 0.071 $\chi^2/\text{NDF}: 1261.7/17$
 Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$
 Right Out: -1.312 ± 0.062 $\chi^2/\text{NDF}: 1653.9/20$
 Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$
 Right: -1.460 ± 0.047 $\chi^2/\text{NDF}: 2928.6/38$

In: -1.228 ± 0.031 $\chi^2/\text{NDF}: 8046.0/40$
 Out: -1.331 ± 0.031 $\chi^2/\text{NDF}: 9597.1/45$

All: -1.279 ± 0.022 $\chi^2/\text{NDF}: 17648.7/86$

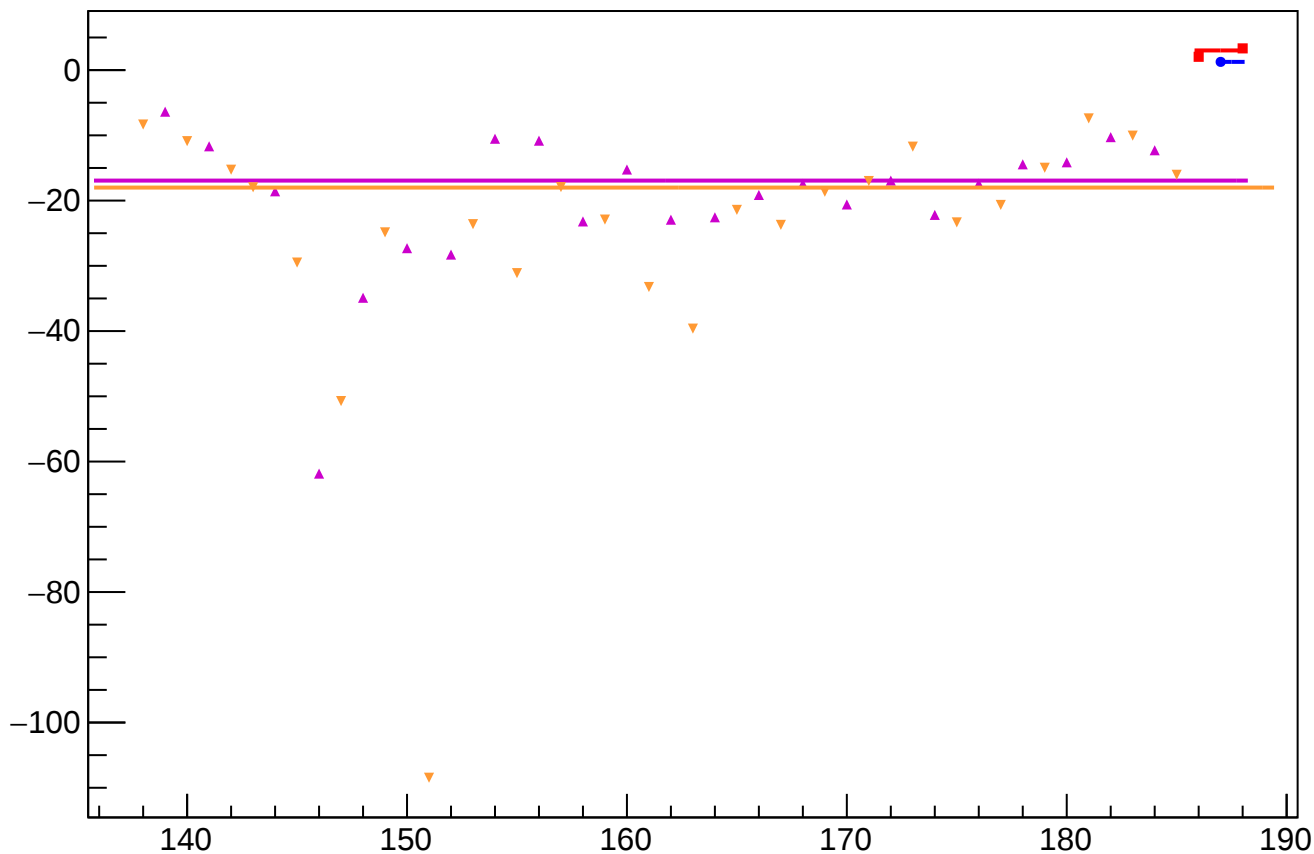
reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.205 ± 0.004 χ^2/NDF : 648.4/17
 Left Out: 0.112 ± 0.002 χ^2/NDF : 4503.9/24
 Right Out: 0.237 ± 0.004 χ^2/NDF : 1358.0/20
 Left In: 0.087 ± 0.002 χ^2/NDF : 3655.4/22

Left: 0.098 ± 0.001 χ^2/NDF : 8295.3/47
 Right: 0.223 ± 0.003 χ^2/NDF : 2041.6/38
 In: 0.100 ± 0.001 χ^2/NDF : 5025.0/40
 Out: 0.134 ± 0.001 χ^2/NDF : 6905.9/45
 All: 0.116 ± 0.001 χ^2/NDF : 12201.4/86

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.261 ± 0.281 χ^2/NDF : 0.0/0

Left Out: -18.005 ± 0.039 χ^2/NDF : 88391.0/24

Right Out: 3.015 ± 0.095 χ^2/NDF : 34.1/1

Left In: -16.934 ± 0.038 χ^2/NDF : 44060.6/22

Left: -17.459 ± 0.027 χ^2/NDF : 132843.0/47

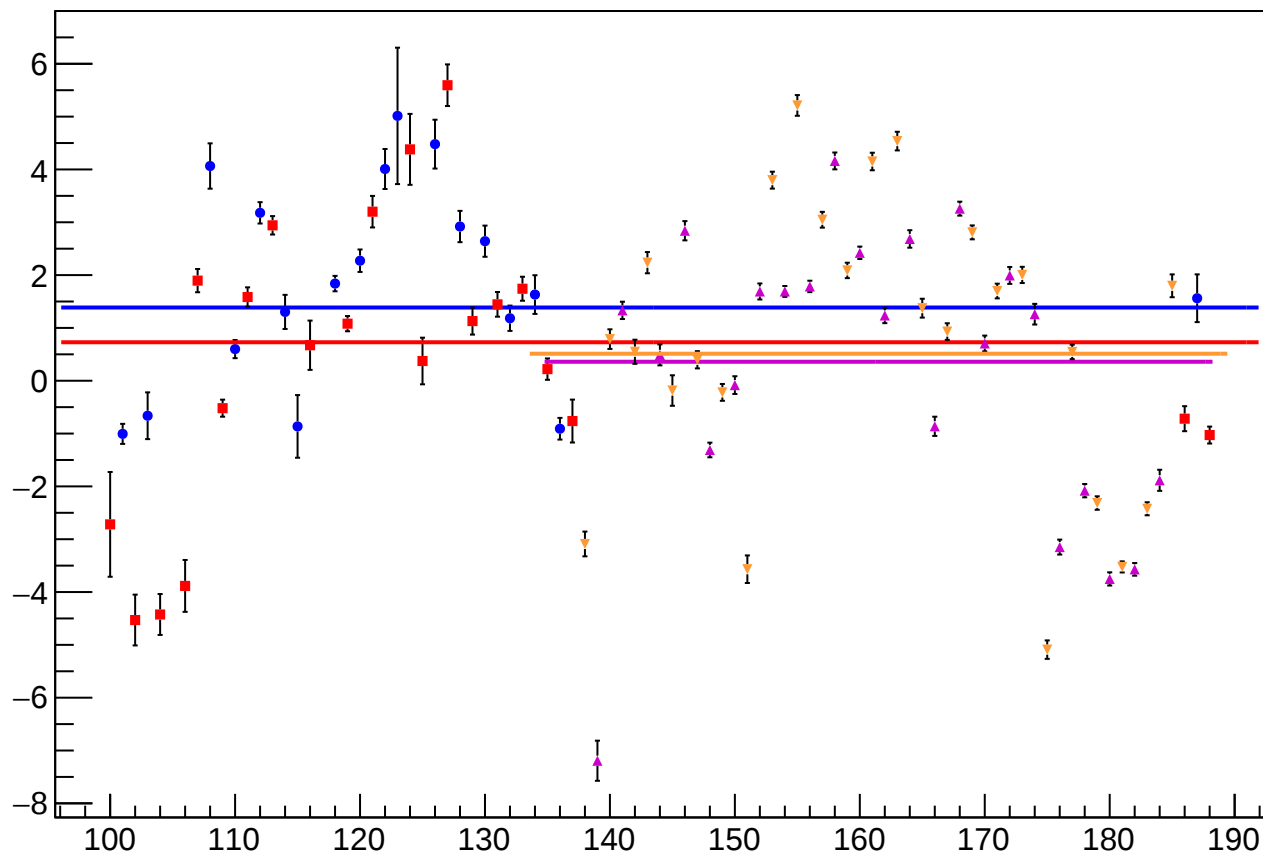
Right: 2.835 ± 0.090 χ^2/NDF : 69.2/2

In: -16.608 ± 0.038 χ^2/NDF : 48186.8/23

Out: -15.011 ± 0.036 χ^2/NDF : 130575.8/26

All: -15.771 ± 0.026 χ^2/NDF : 179710.9/50

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.386 ± 0.061 χ^2/NDF : 632.4/17

Left Out: 0.511 ± 0.032 χ^2/NDF : 7070.4/24

Right Out: 0.729 ± 0.053 χ^2/NDF : 1134.6/20

Left In: 0.360 ± 0.031 χ^2/NDF : 6221.1/22

Left: 0.432 ± 0.022 χ^2/NDF : 13303.2/47

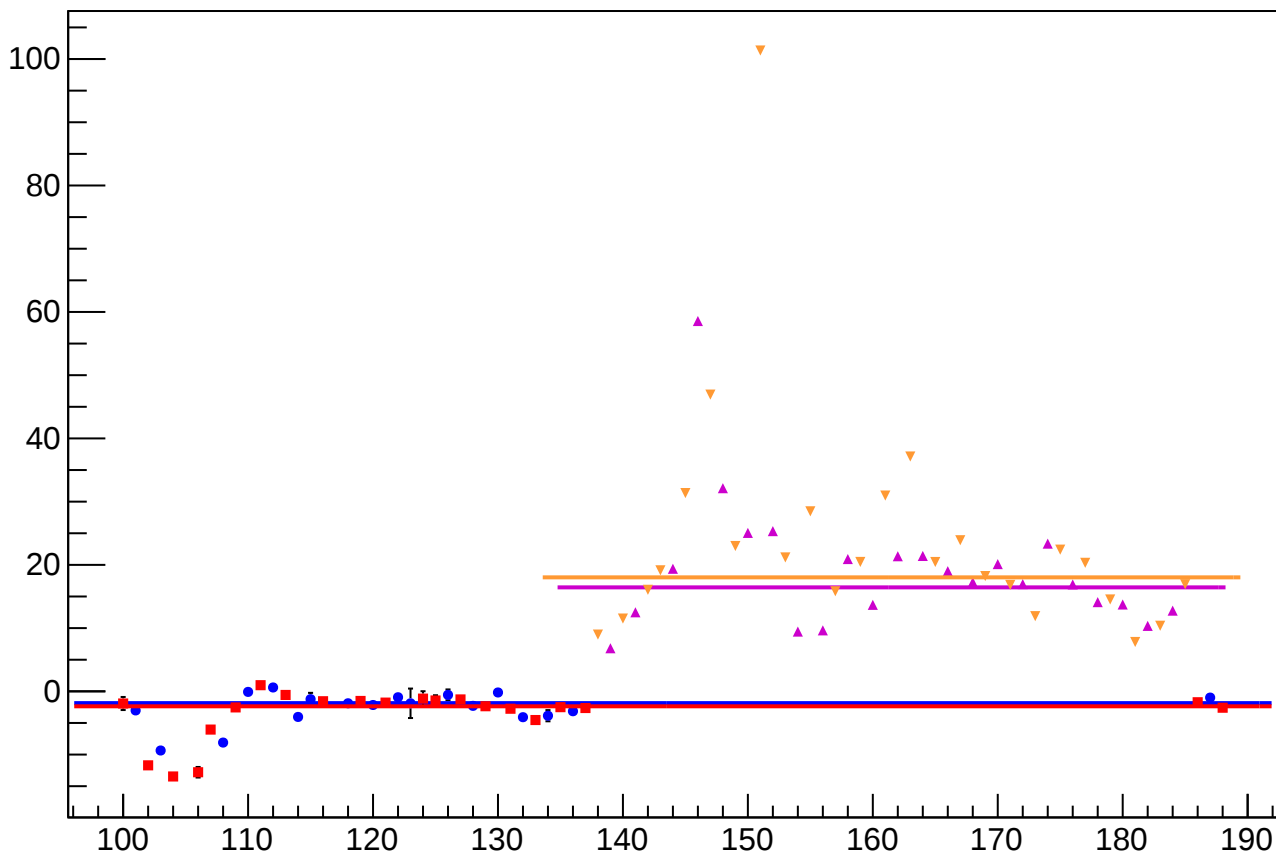
Right: 1.010 ± 0.040 χ^2/NDF : 1833.0/38

In: 0.564 ± 0.027 χ^2/NDF : 7078.8/40

Out: 0.570 ± 0.027 χ^2/NDF : 8217.3/45

All: 0.567 ± 0.019 χ^2/NDF : 15296.1/86

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.864 ± 0.100 $\chi^2/\text{NDF}: 467.8/17$

Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$

Right Out: -2.367 ± 0.060 $\chi^2/\text{NDF}: 918.9/20$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

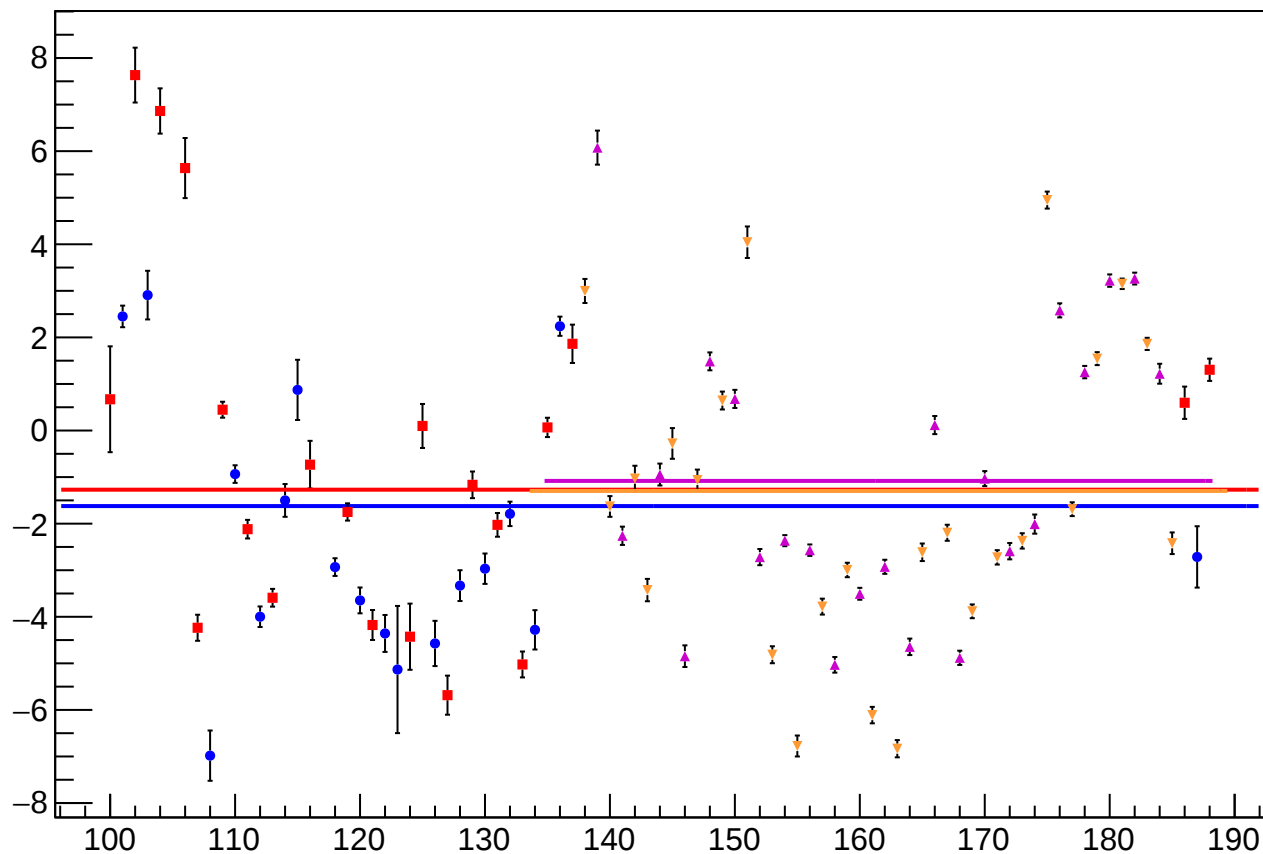
Right: -2.233 ± 0.052 $\chi^2/\text{NDF}: 1405.2/38$

In: 14.185 ± 0.035 $\chi^2/\text{NDF}: 70625.7/40$

Out: 12.049 ± 0.033 $\chi^2/\text{NDF}: 159527.9/45$

All: 13.039 ± 0.024 $\chi^2/\text{NDF}: 232137.6/86$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



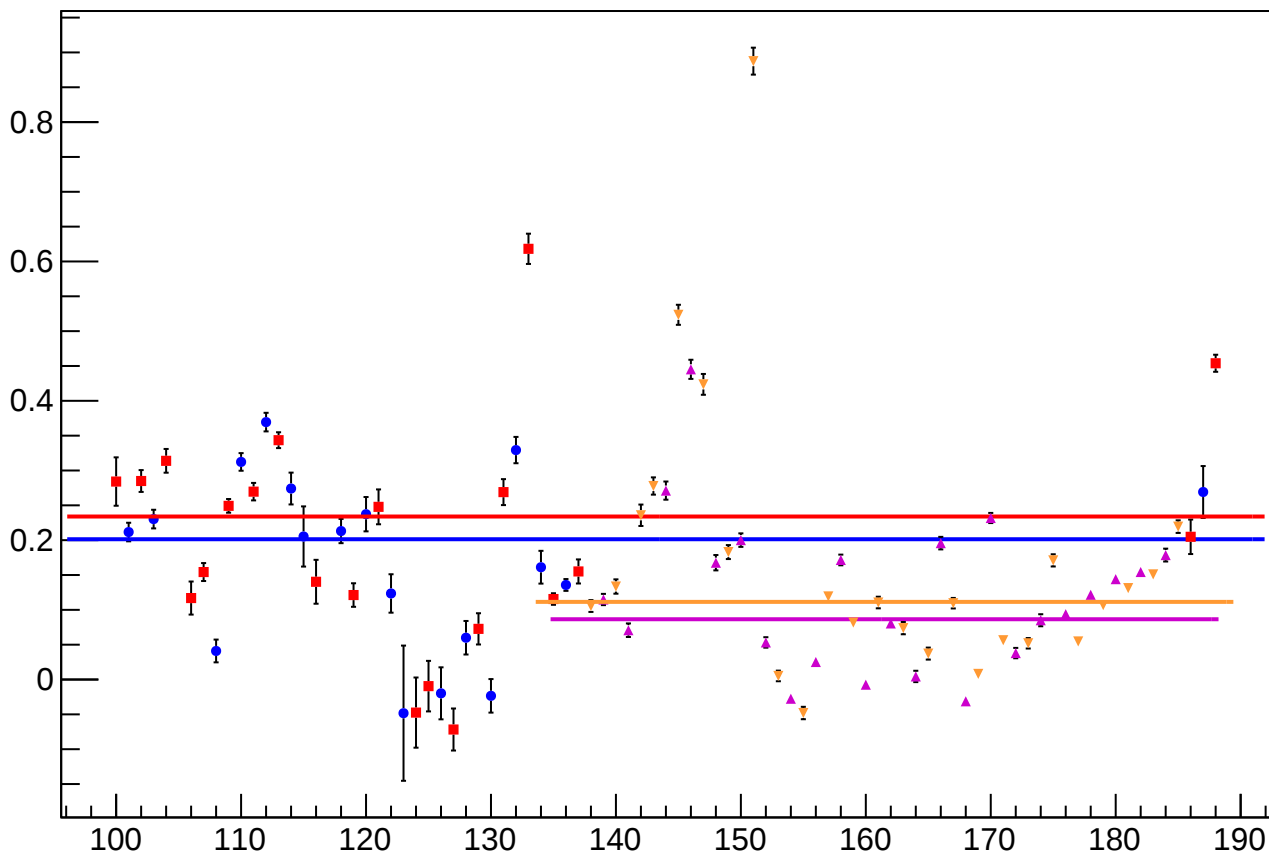
Right In: -1.622 ± 0.071 $\chi^2/\text{NDF}: 1256.0/17$
 Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$
 Right Out: -1.270 ± 0.062 $\chi^2/\text{NDF}: 1668.5/20$
 Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$
 Right: -1.424 ± 0.047 $\chi^2/\text{NDF}: 2938.6/38$

In: -1.183 ± 0.031 $\chi^2/\text{NDF}: 8027.9/40$
 Out: -1.290 ± 0.031 $\chi^2/\text{NDF}: 9593.8/45$

All: -1.236 ± 0.022 $\chi^2/\text{NDF}: 17627.7/86$

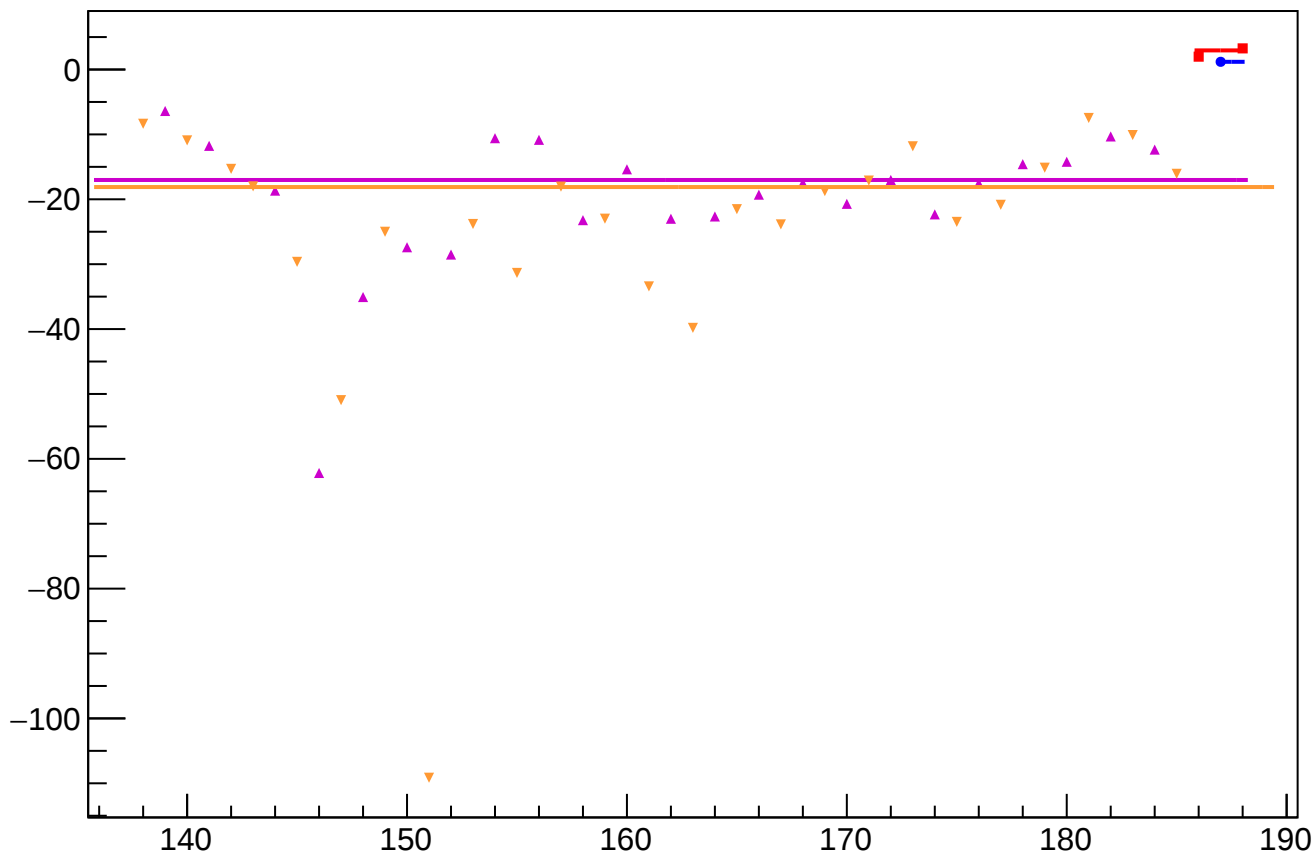
reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.201 $\pm$ 0.004 χ^2 /NDF: 633.8/17
 Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24
 Right Out: 0.234 $\pm$ 0.003 χ^2 /NDF: 1350.8/20
 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: 0.220 $\pm$ 0.003 χ^2 /NDF: 2021.1/38
 In: 0.100 $\pm$ 0.001 χ^2 /NDF:4947.9/40
 Out: 0.133 $\pm$ 0.001 χ^2 /NDF:6867.4/45
 All: 0.116 $\pm$ 0.001 χ^2 /NDF: 12078.0/86

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.187 ± 0.282 χ^2/NDF : 0.0/0

Left Out: -18.112 ± 0.039 χ^2/NDF : 88529.7/24

Right Out: 2.946 ± 0.095 χ^2/NDF : 33.6/1

Left In: -17.024 ± 0.038 χ^2/NDF : 44141.8/22

Left: -17.557 ± 0.027 χ^2/NDF : 133072.9/47

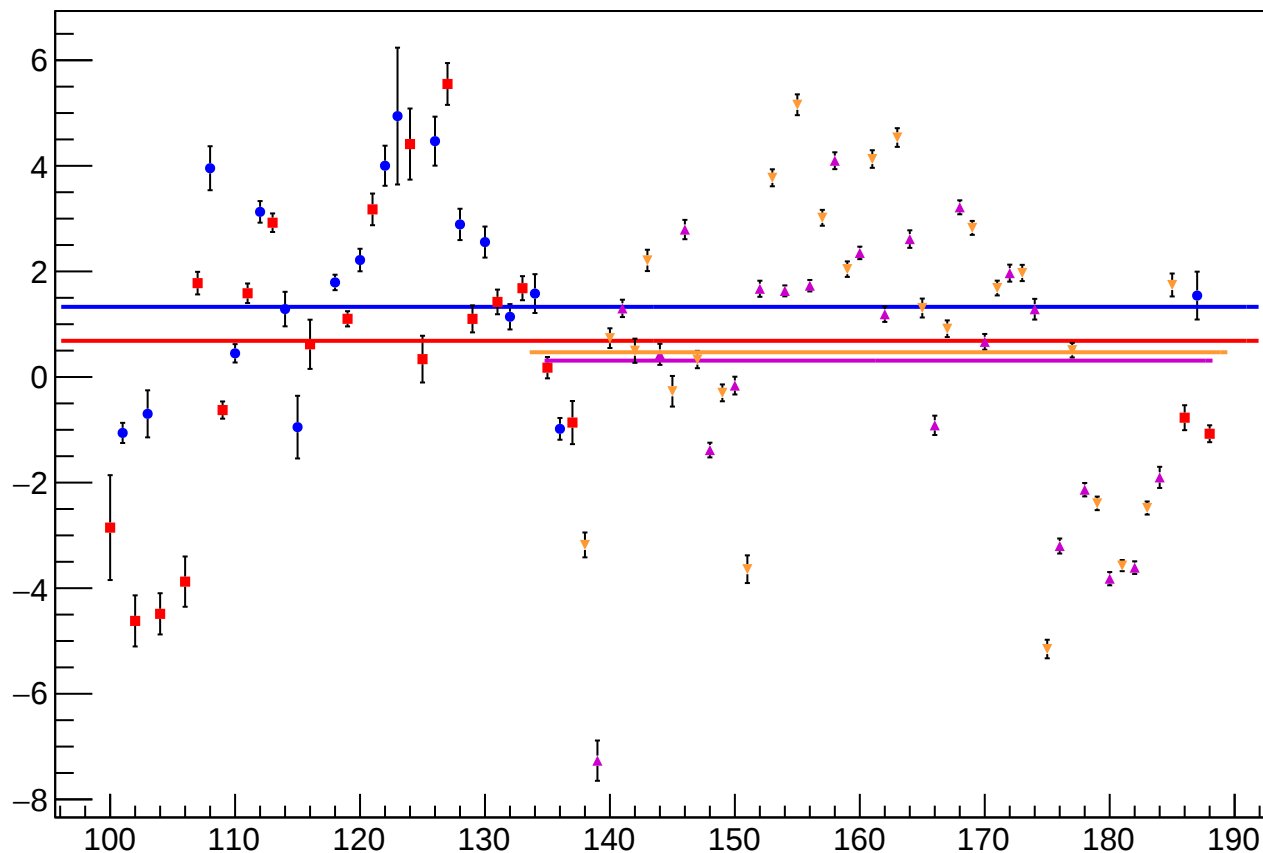
Right: 2.767 ± 0.090 χ^2/NDF : 68.6/2

In: -16.697 ± 0.038 χ^2/NDF : 48251.9/23

Out: -15.081 ± 0.036 χ^2/NDF : 130947.2/26

All: -15.850 ± 0.026 χ^2/NDF : 180161.7/50

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.329 ± 0.061 $\chi^2/\text{NDF}: 637.4/17$

Left Out: 0.469 ± 0.032 $\chi^2/\text{NDF}: 7093.0/24$

Right Out: 0.685 ± 0.053 $\chi^2/\text{NDF}: 1147.0/20$

Left In: 0.311 ± 0.031 $\chi^2/\text{NDF}: 6183.1/22$

Left: 0.386 ± 0.022 $\chi^2/\text{NDF}: 13288.8/47$

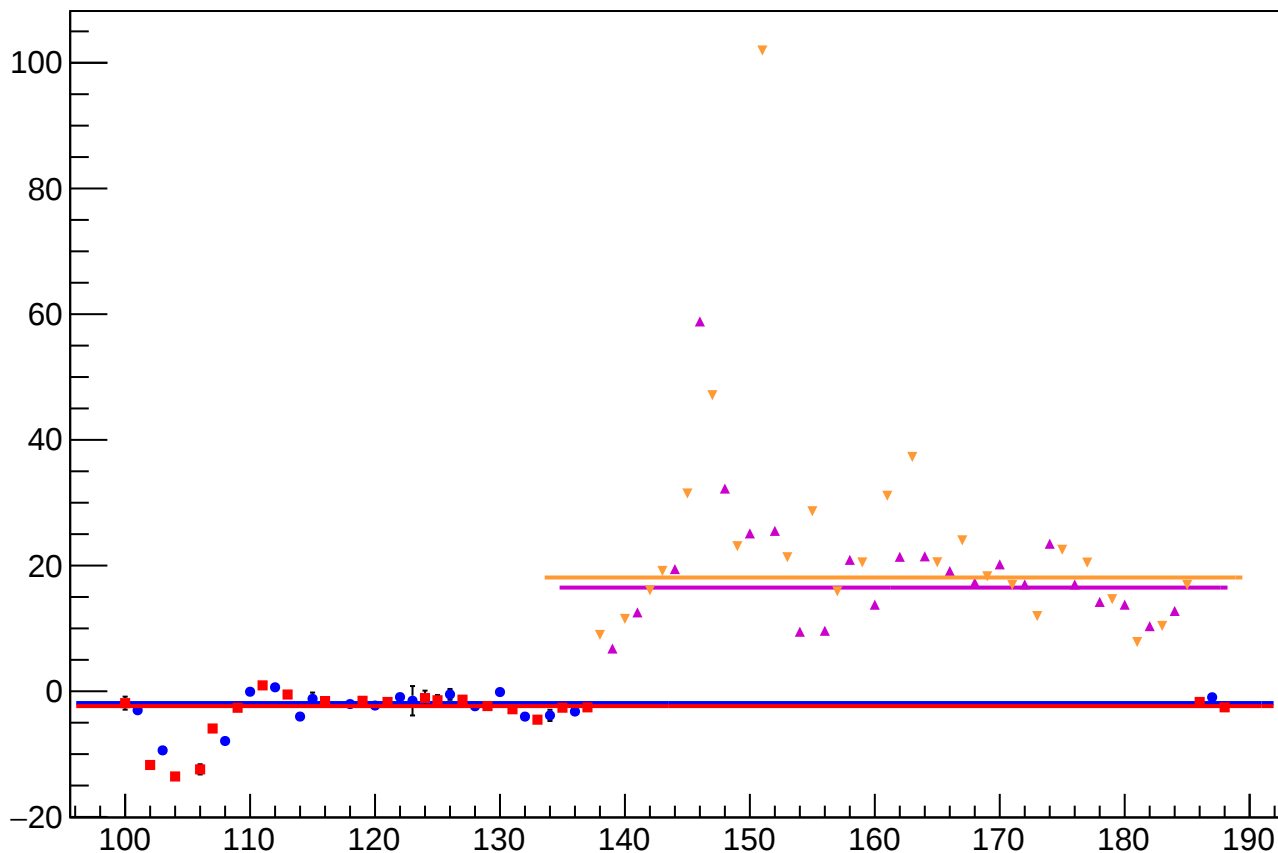
Right: 0.960 ± 0.040 $\chi^2/\text{NDF}: 1847.1/38$

In: 0.513 ± 0.027 $\chi^2/\text{NDF}: 7040.2/40$

Out: 0.527 ± 0.028 $\chi^2/\text{NDF}: 8252.2/45$

All: 0.520 ± 0.019 $\chi^2/\text{NDF}: 15292.6/86$

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.876 ± 0.100 $\chi^2/\text{NDF}: 468.7/17$

Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$

Right Out: -2.362 ± 0.060 $\chi^2/\text{NDF}: 912.7/20$

Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$

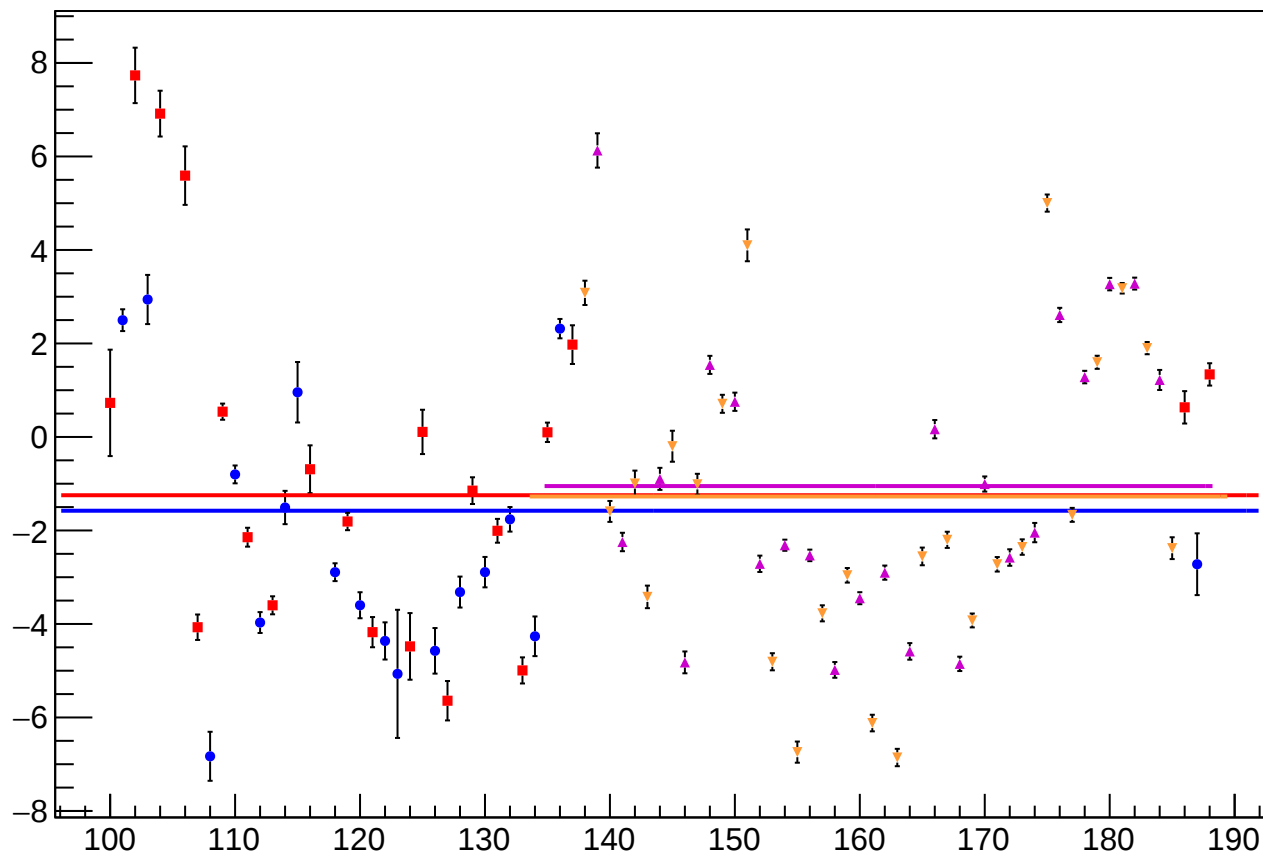
Right: -2.233 ± 0.052 $\chi^2/\text{NDF}: 1398.5/38$

In: 14.234 ± 0.035 $\chi^2/\text{NDF}: 70644.4/40$

Out: 12.073 ± 0.033 $\chi^2/\text{NDF}: 159904.5/45$

All: 13.073 ± 0.024 $\chi^2/\text{NDF}: 232566.0/86$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



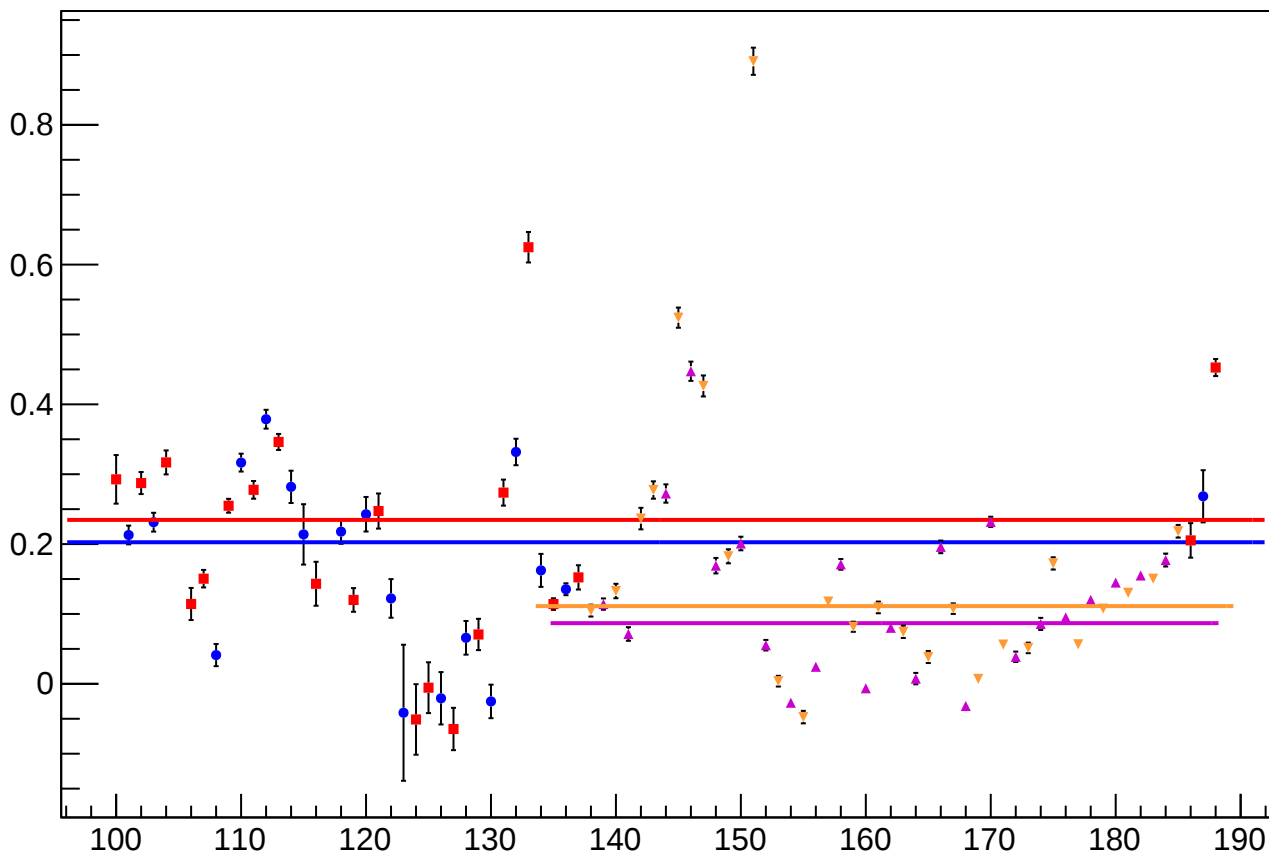
Right In: -1.578 ± 0.071 χ^2/NDF : 1261.2/17
 Left Out: -1.273 ± 0.036 χ^2/NDF : 7951.6/24
 Right Out: -1.247 ± 0.062 χ^2/NDF : 1681.2/20
 Left In: -1.050 ± 0.034 χ^2/NDF : 6673.4/22

Left: -1.156 ± 0.025 χ^2/NDF : 14645.3/47
 Right: -1.391 ± 0.047 χ^2/NDF : 2954.7/38

In: -1.149 ± 0.031 χ^2/NDF : 7979.6/40
 Out: -1.266 ± 0.031 χ^2/NDF : 9633.0/45

All: -1.207 ± 0.022 χ^2/NDF : 17619.7/86

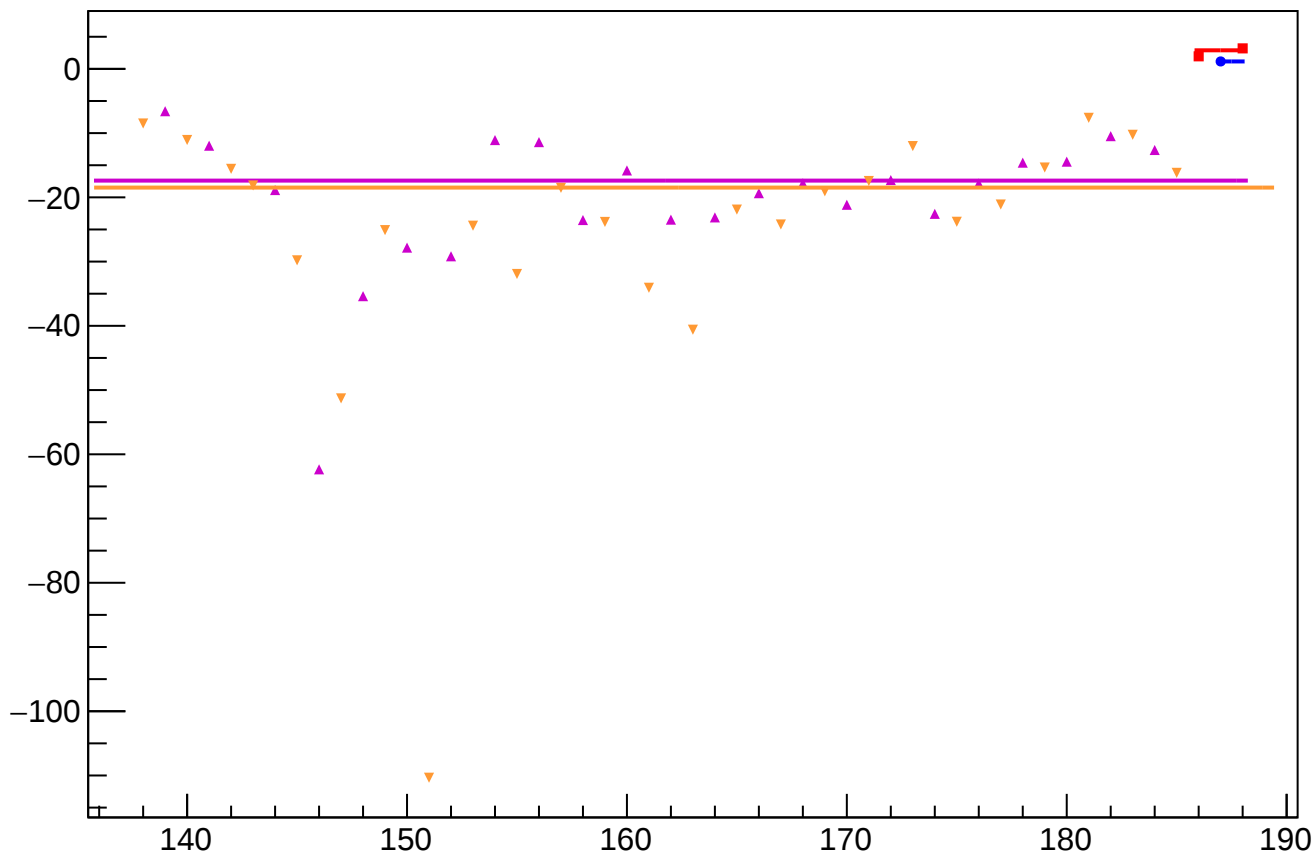
reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.203 ± 0.004 $\chi^2/\text{NDF}: 661.8/17$
 Left Out: 0.111 ± 0.002 $\chi^2/\text{NDF}: 4474.5/24$
 Right Out: 0.235 ± 0.003 $\chi^2/\text{NDF}: 1377.9/20$
 Left In: 0.087 ± 0.001 $\chi^2/\text{NDF}: 3598.5/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8197.1/47$
 Right: 0.221 ± 0.003 $\chi^2/\text{NDF}: 2074.7/38$
 In: 0.100 ± 0.001 $\chi^2/\text{NDF}: 4955.5/40$
 Out: 0.133 ± 0.001 $\chi^2/\text{NDF}: 6883.4/45$
 All: 0.116 ± 0.001 $\chi^2/\text{NDF}: 12093.6/86$

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.157+/-0.283 χ^2/NDF : 0.0/0

Left Out: -18.479+/-0.040 χ^2/NDF : 87883.4/24

Right Out: 2.891+/-0.095 χ^2/NDF : 31.4/1

Left In: -17.393+/-0.039 χ^2/NDF : 43178.9/22

Left: -17.926+/-0.028 χ^2/NDF : 131443.9/47

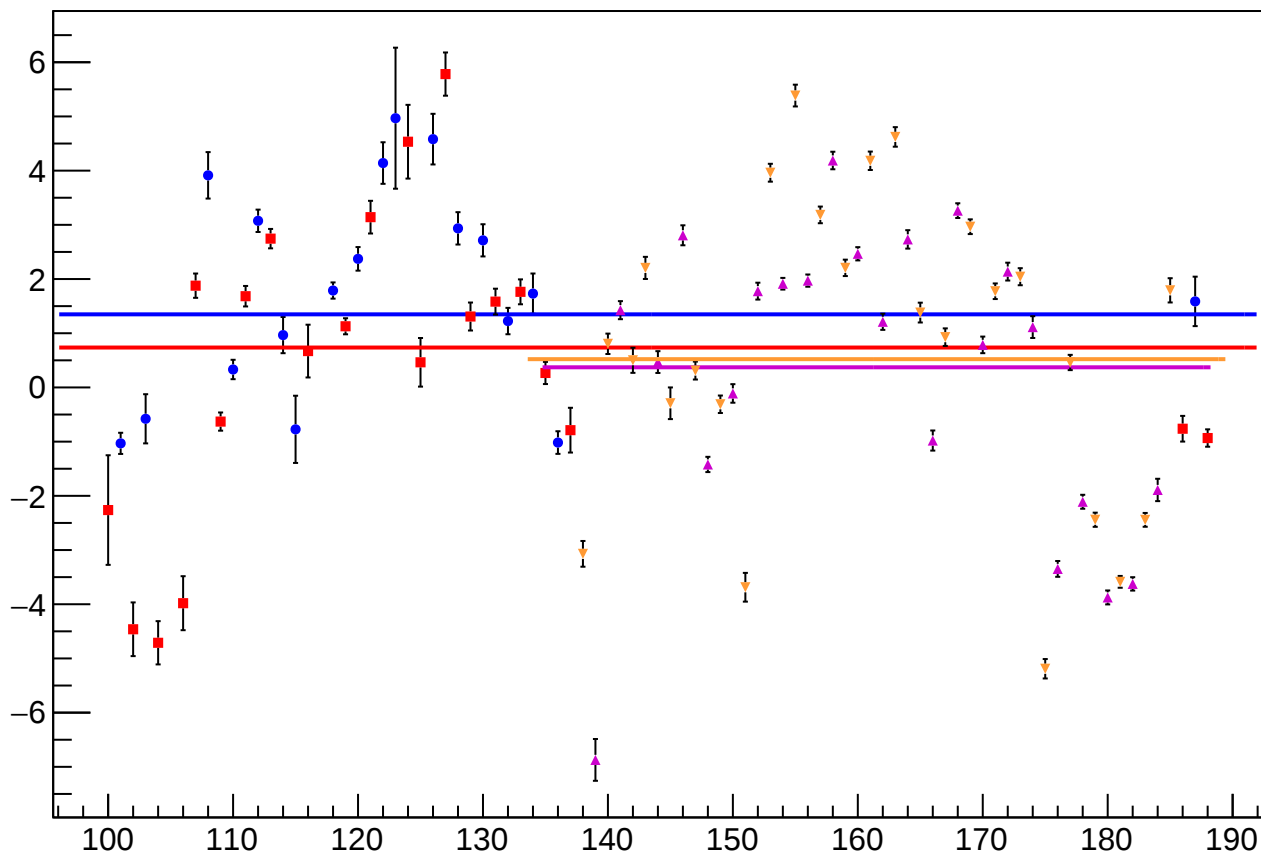
Right: 2.716+/-0.090 χ^2/NDF : 65.0/2

In: -17.049+/-0.039 χ^2/NDF : 47386.1/23

Out: -15.298+/-0.037 χ^2/NDF : 131048.5/26

All: -16.128+/-0.027 χ^2/NDF : 179517.1/50

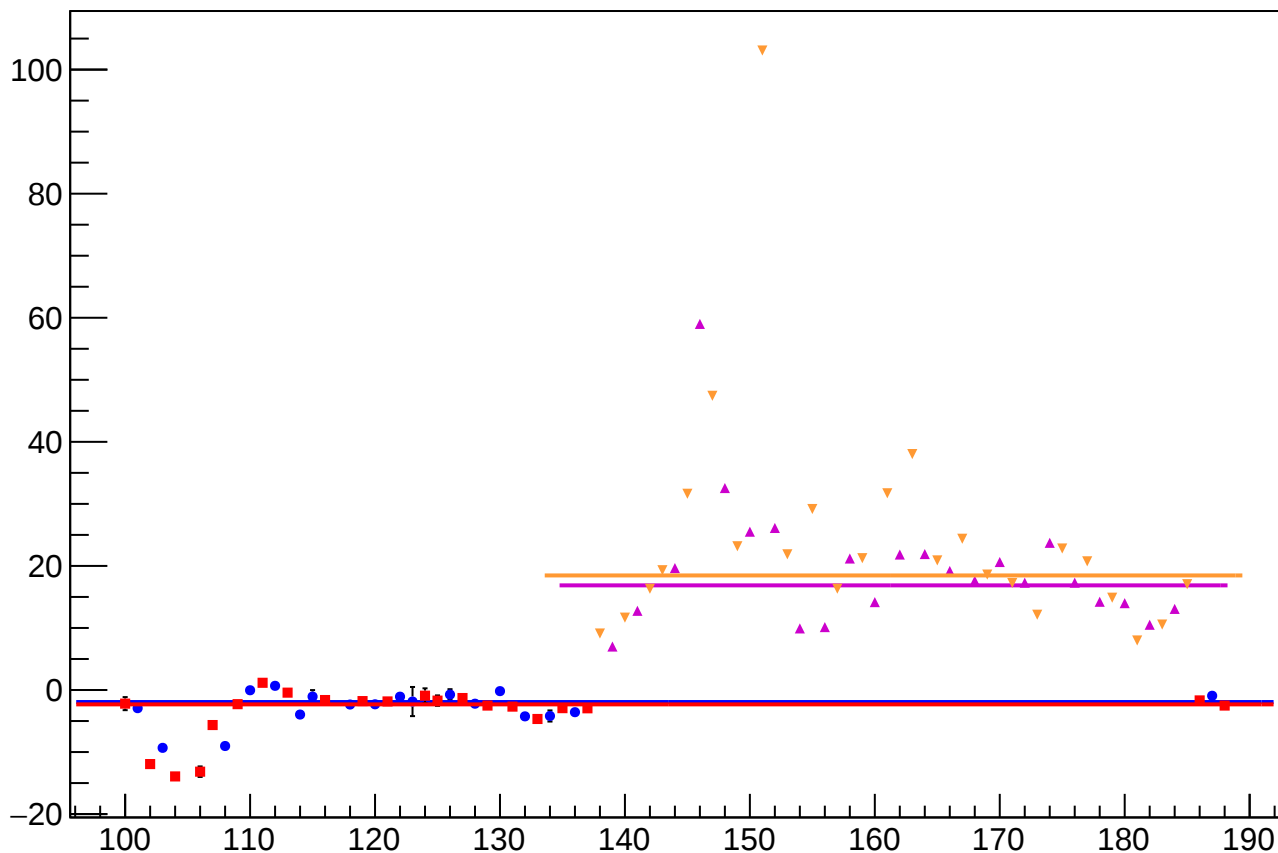
reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.349 ± 0.063 χ^2/NDF : 636.6/17
 Left Out: 0.522 ± 0.033 χ^2/NDF : 7055.1/24
 Right Out: 0.736 ± 0.054 χ^2/NDF : 1105.0/20
 Left In: 0.371 ± 0.031 χ^2/NDF : 6217.4/22

Left: 0.443 ± 0.023 χ^2/NDF : 13283.4/47
 Right: 0.998 ± 0.041 χ^2/NDF : 1796.4/38
 In: 0.568 ± 0.028 χ^2/NDF : 7048.7/40
 Out: 0.580 ± 0.028 χ^2/NDF : 8171.6/45
 All: 0.574 ± 0.020 χ^2/NDF : 15220.4/86

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.940 ± 0.102 $\chi^2/\text{NDF}: 495.8/17$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -2.315 ± 0.061 $\chi^2/\text{NDF}: 932.1/20$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

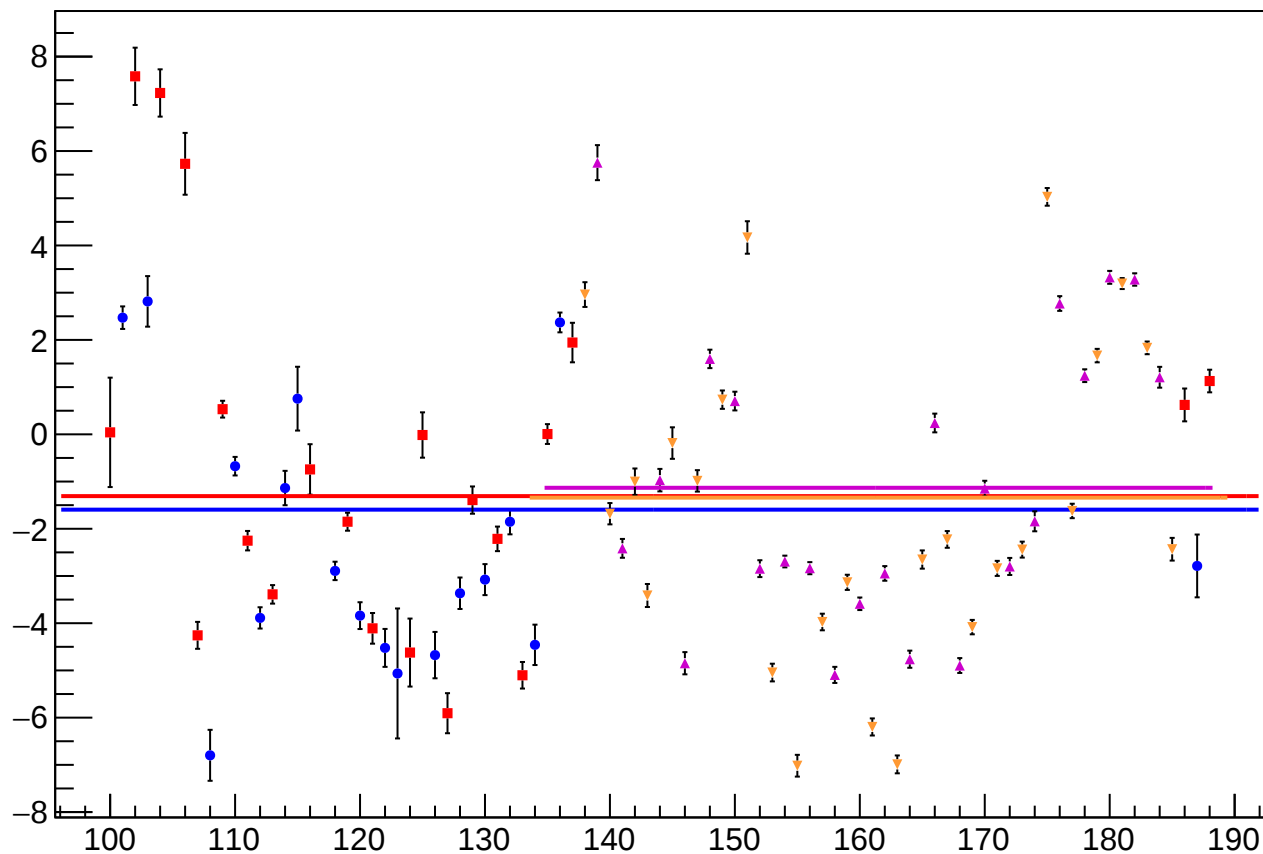
Right: -2.216 ± 0.052 $\chi^2/\text{NDF}: 1437.8/38$

In: 14.517 ± 0.036 $\chi^2/\text{NDF}: 69979.8/40$

Out: 12.231 ± 0.033 $\chi^2/\text{NDF}: 159624.4/45$

All: 13.285 ± 0.024 $\chi^2/\text{NDF}: 231768.5/86$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.595 ± 0.072 χ^2/NDF : 1251.0/17

Left Out: -1.340 ± 0.037 χ^2/NDF : 7907.4/24

Right Out: -1.308 ± 0.063 χ^2/NDF : 1627.1/20

Left In: -1.132 ± 0.035 χ^2/NDF : 6708.5/22

Left: -1.231 ± 0.025 χ^2/NDF : 14632.9/47

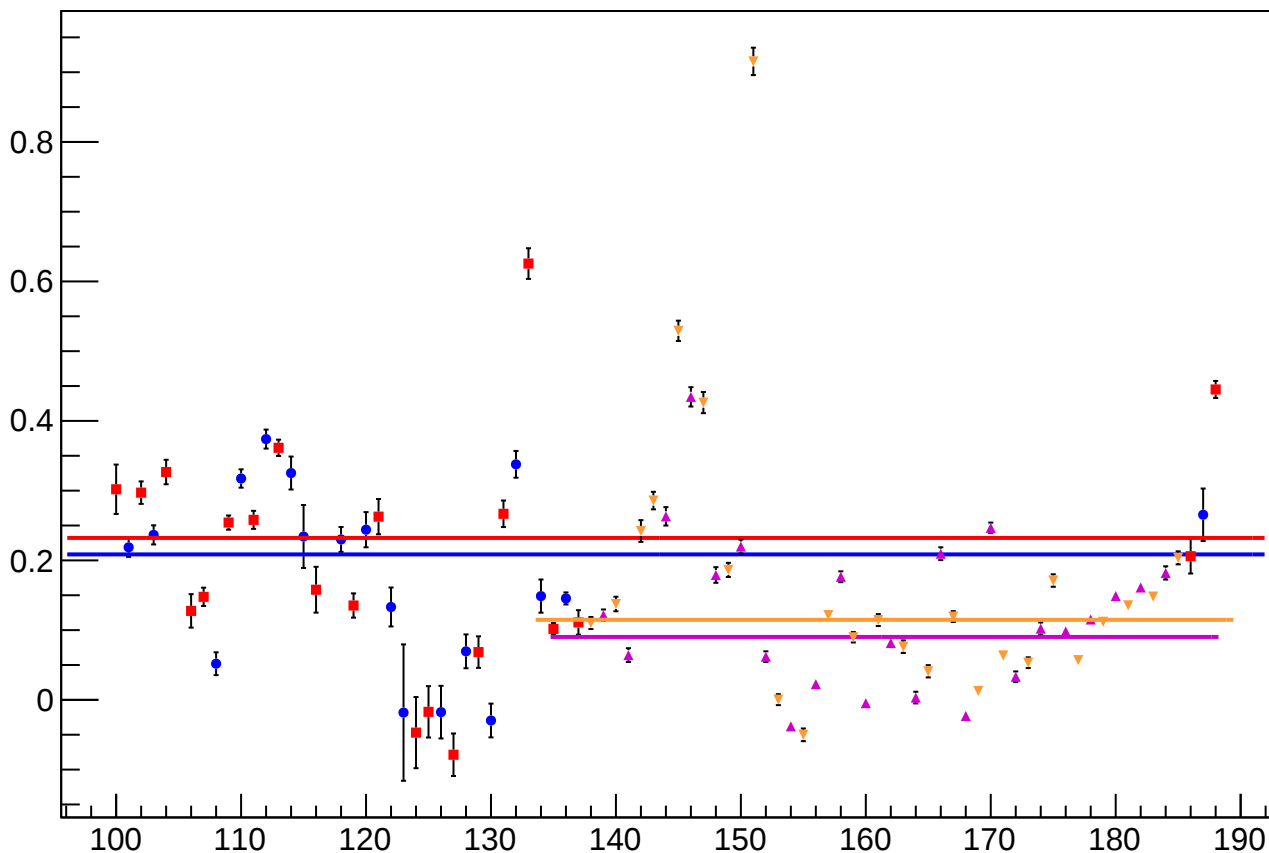
Right: -1.433 ± 0.048 χ^2/NDF : 2887.0/38

In: -1.220 ± 0.031 χ^2/NDF : 7992.9/40

Out: -1.332 ± 0.032 χ^2/NDF : 9534.7/45

All: -1.276 ± 0.022 χ^2/NDF : 17534.0/86

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.209 ± 0.004 χ^2/NDF : 626.3/17

Left Out: 0.115 ± 0.002 χ^2/NDF : 4431.9/24

Right Out: 0.232 ± 0.004 χ^2/NDF : 1426.6/20

Left In: 0.090 ± 0.002 χ^2/NDF : 3676.5/22

Left: 0.102 ± 0.001 χ^2/NDF : 8228.2/47

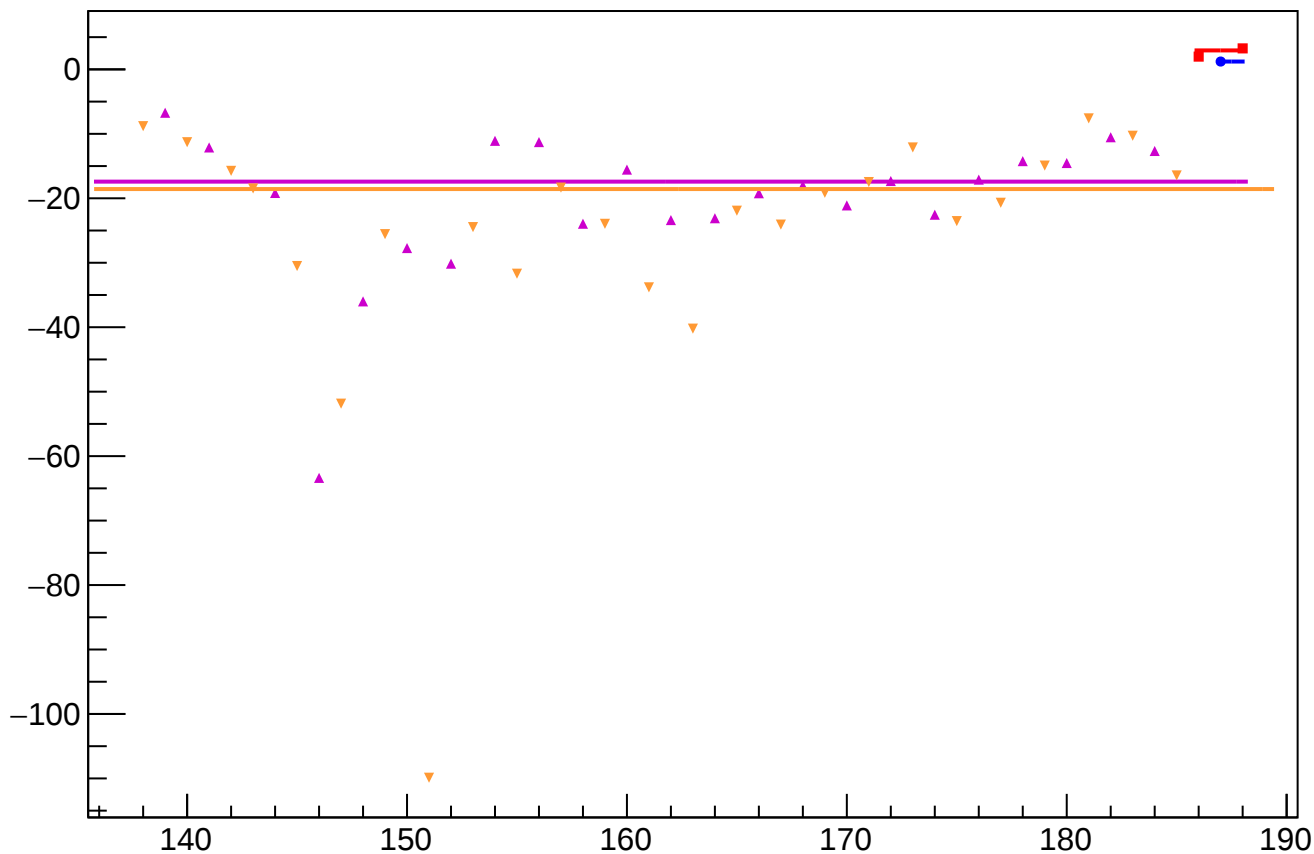
Right: 0.222 ± 0.003 χ^2/NDF : 2071.3/38

In: 0.104 ± 0.001 χ^2/NDF : 5003.1/40

Out: 0.135 ± 0.001 χ^2/NDF : 6757.0/45

All: 0.119 ± 0.001 χ^2/NDF : 11985.2/86

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.216 $\pm$ 0.284 χ^2 /NDF: 0.0/0

Left Out: -18.566 $\pm$ 0.040 χ^2 /NDF:86389.6/24

Right Out: 2.942 $\pm$ 0.096 χ^2 /NDF: 32.8/1

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

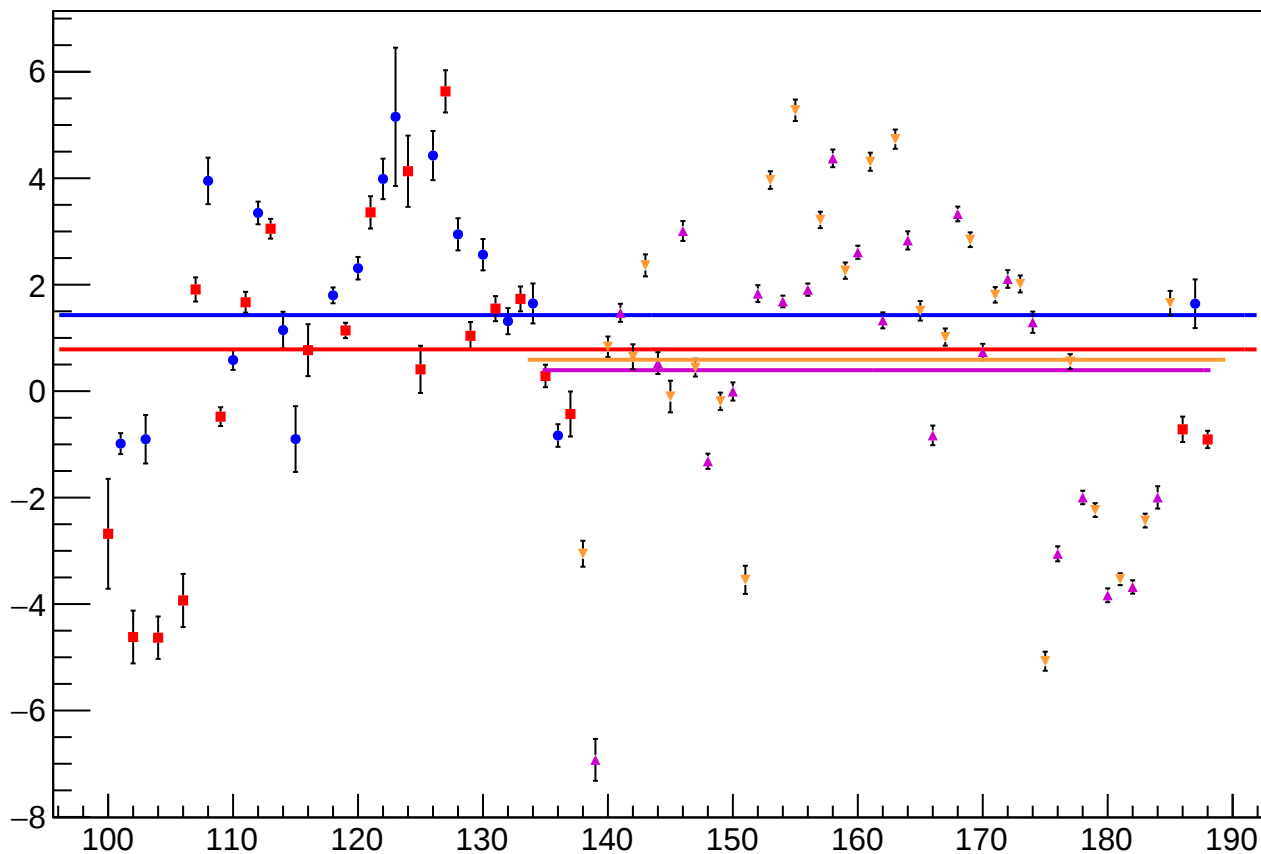
Right: 2.765 $\pm$ 0.091 χ^2 /NDF: 65.9/2

In: -17.064 $\pm$ 0.039 χ^2 /NDF:47723.2/23

Out: -15.375 $\pm$ 0.037 χ^2 /NDF:129108.1/26

All: -16.177 $\pm$ 0.027 χ^2 /NDF: 177820.1/50

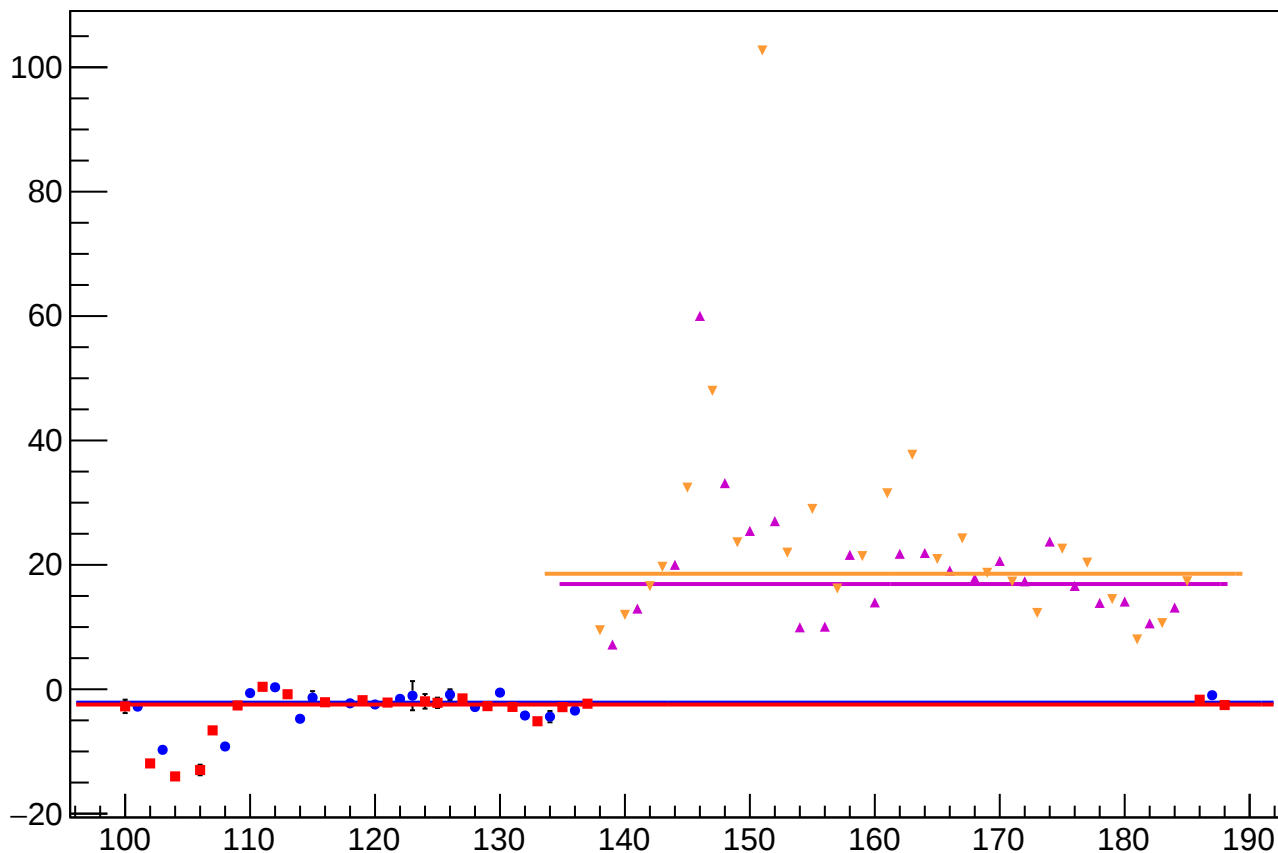
reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.429 ± 0.063 χ^2/NDF : 600.1/17
 Left Out: 0.591 ± 0.033 χ^2/NDF : 6796.5/24
 Right Out: 0.785 ± 0.055 χ^2/NDF : 1093.3/20
 Left In: 0.394 ± 0.032 χ^2/NDF : 6059.8/22

Left: 0.488 ± 0.023 χ^2/NDF : 12874.6/47
 Right: 1.061 ± 0.041 χ^2/NDF : 1752.7/38
 In: 0.602 ± 0.028 χ^2/NDF : 6874.4/40
 Out: 0.643 ± 0.028 χ^2/NDF : 7899.0/45
 All: 0.623 ± 0.020 χ^2/NDF : 14774.4/86

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.154 ± 0.103 $\chi^2/\text{NDF}: 459.3/17$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -2.453 ± 0.062 $\chi^2/\text{NDF}: 862.3/20$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

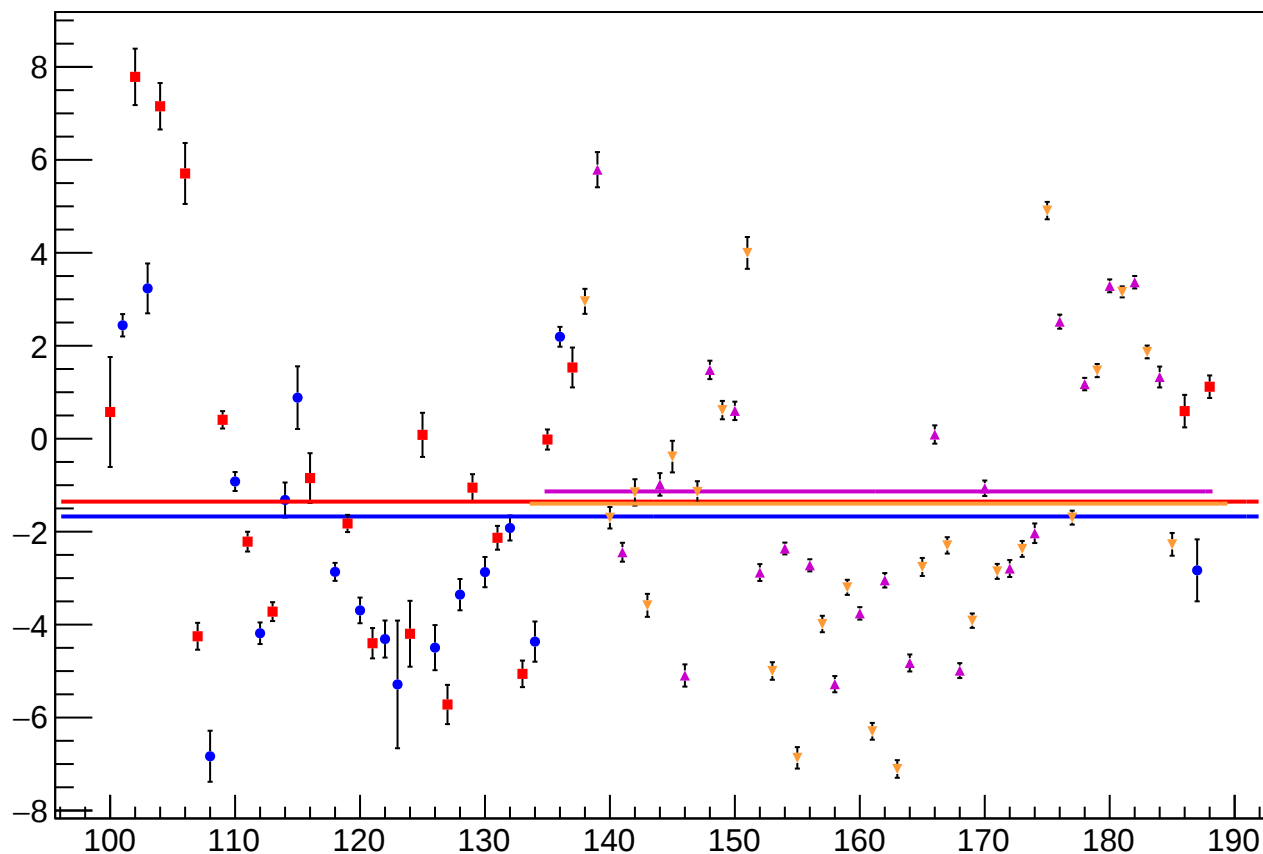
Right: -2.374 ± 0.053 $\chi^2/\text{NDF}: 1327.8/38$

In: 14.552 ± 0.036 $\chi^2/\text{NDF}: 70429.0/40$

Out: 12.317 ± 0.034 $\chi^2/\text{NDF}: 158037.8/45$

All: 13.350 ± 0.025 $\chi^2/\text{NDF}: 230493.5/86$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.673 ± 0.073 $\chi^2/\text{NDF}: 1194.0/17$

Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$

Right Out: -1.353 ± 0.064 $\chi^2/\text{NDF}: 1599.0/20$

Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$

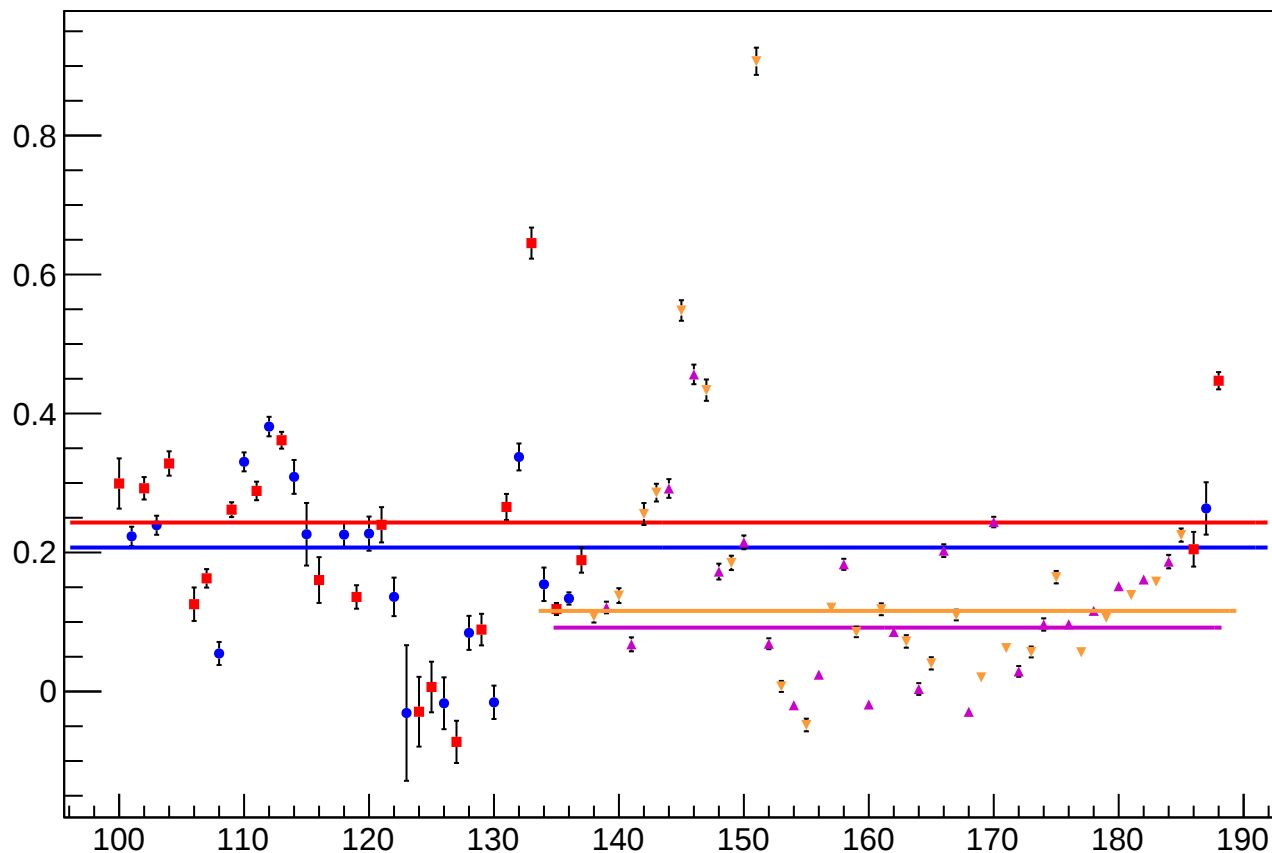
Right: -1.493 ± 0.048 $\chi^2/\text{NDF}: 2803.8/38$

In: -1.237 ± 0.032 $\chi^2/\text{NDF}: 7836.0/40$

Out: -1.386 ± 0.032 $\chi^2/\text{NDF}: 9250.9/45$

All: -1.310 ± 0.023 $\chi^2/\text{NDF}: 17097.8/86$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.207 ± 0.004 χ^2/NDF : 627.5/17

Left Out: 0.116 ± 0.002 χ^2/NDF : 4463.0/24

Right Out: 0.243 ± 0.004 χ^2/NDF : 1291.0/20

Left In: 0.092 ± 0.002 χ^2/NDF : 3631.4/22

Left: 0.103 ± 0.001 χ^2/NDF : 8207.3/47

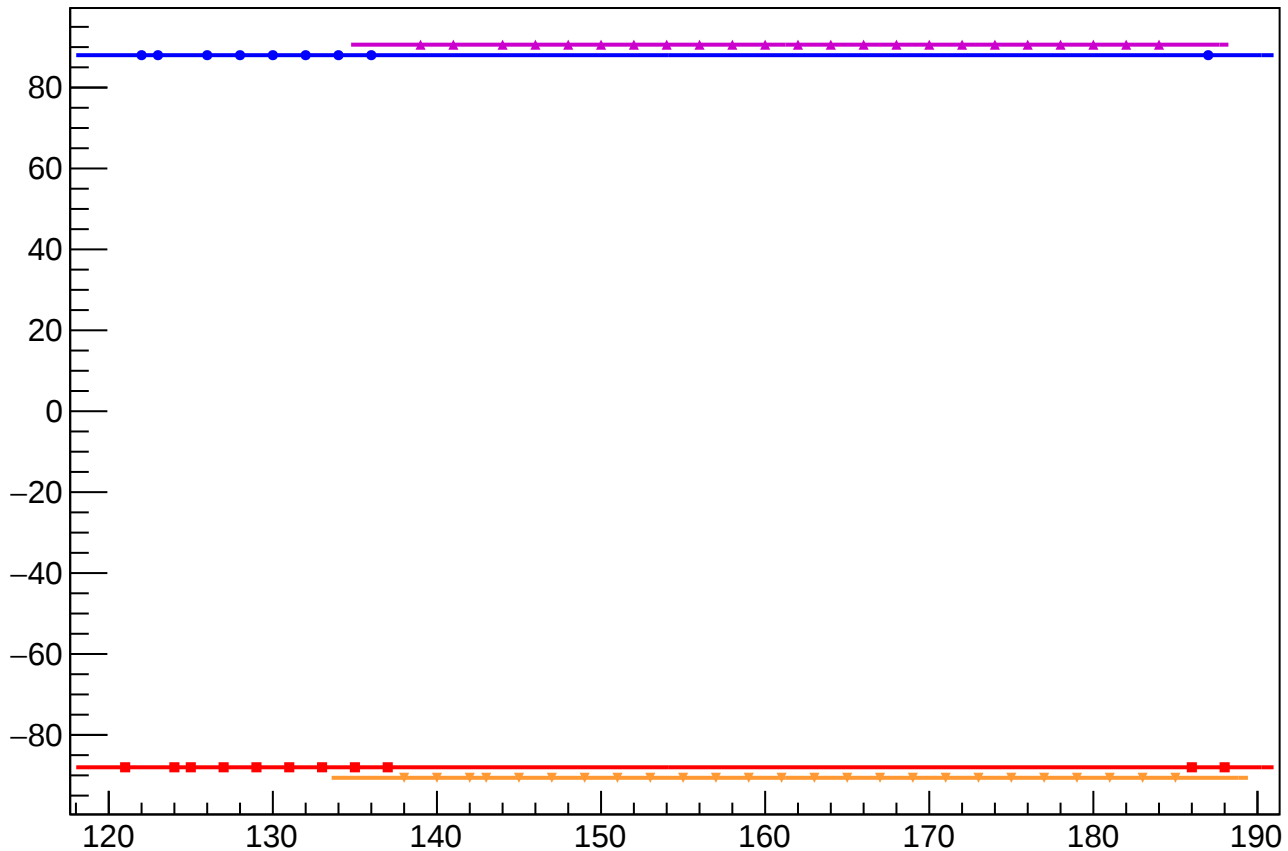
Right: 0.228 ± 0.003 χ^2/NDF : 1959.9/38

In: 0.105 ± 0.001 χ^2/NDF : 4906.0/40

Out: 0.138 ± 0.002 χ^2/NDF : 6771.6/45

All: 0.121 ± 0.001 χ^2/NDF : 11916.3/86

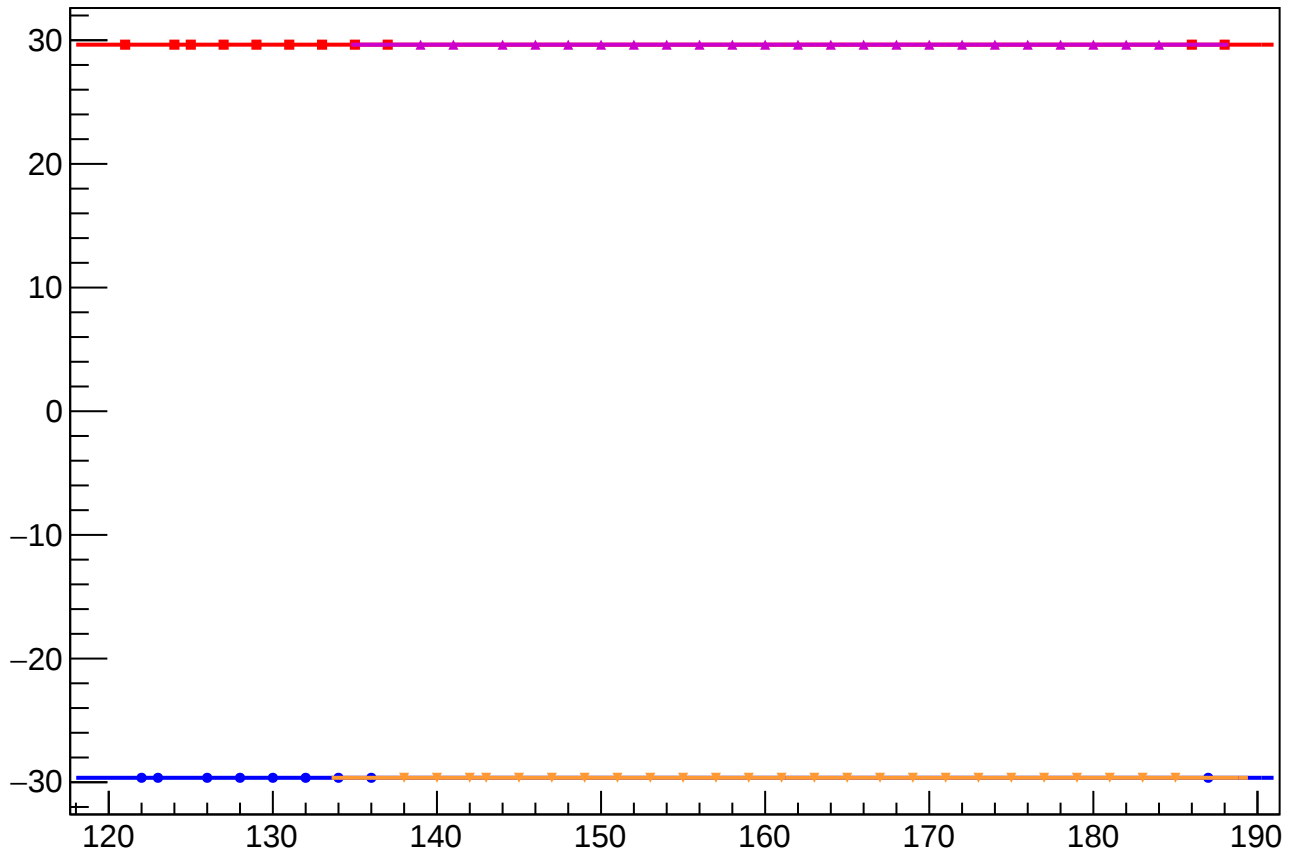
VWienAngle_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 661381.0/8
Left Out: -90.599+/-0.000 χ^2/NDF : 6053403.0/24
Right Out: -88.001+/-0.000 χ^2/NDF : 211440.0/10
Left In: 90.599+/-0.000 χ^2/NDF : 5932436.0/22

Left: -2.410+/-0.000 χ^2/NDF : 30521213250005045
Right: -10.289+/-0.000 χ^2/NDF : 614116719009976
In: 90.173+/-0.000 χ^2/NDF : 200431109351641949
Out: -90.105+/-0.000 χ^2/NDF : 2454870270895208
All: -3.810+/-0.000 χ^2/NDF : 3670341488957

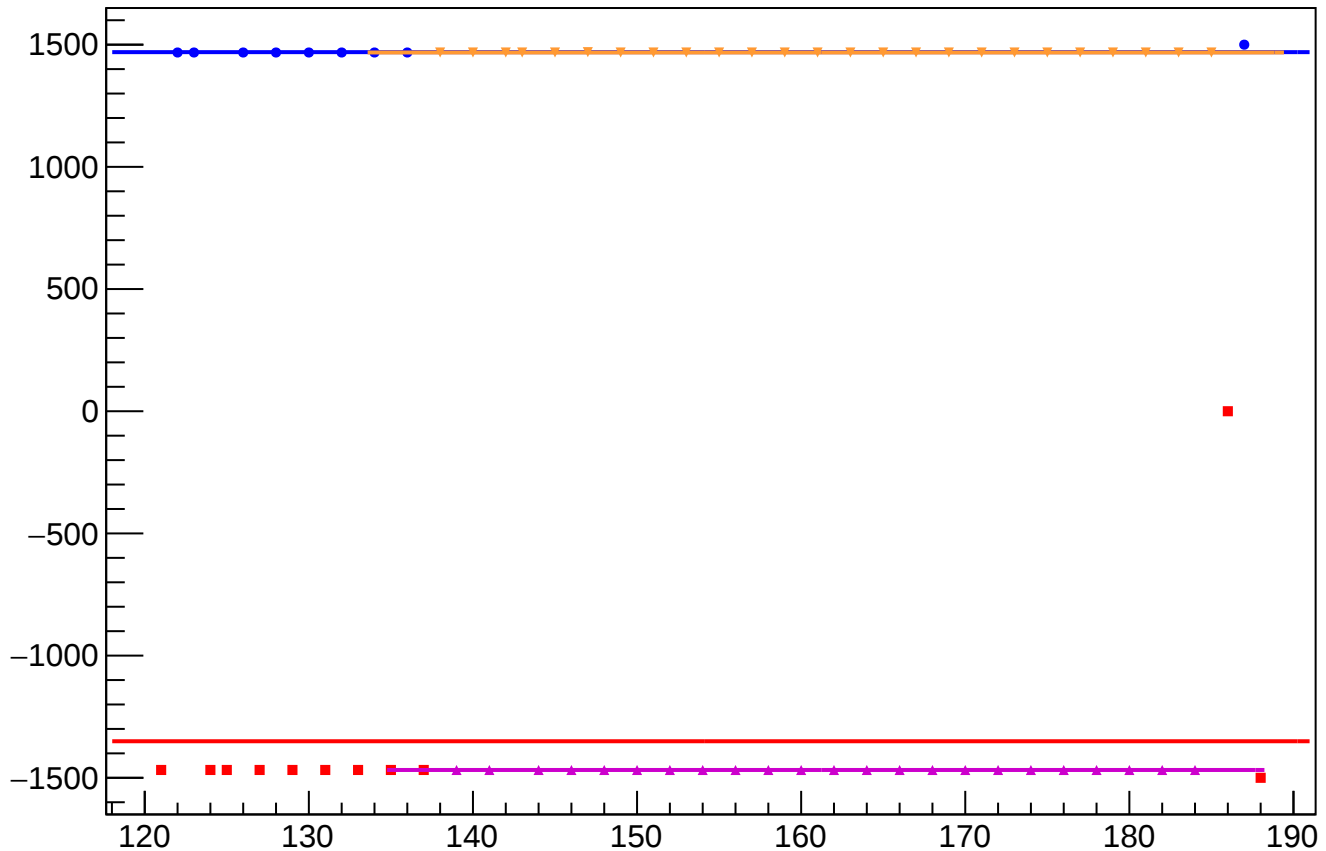
HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.641+/-0.000 χ^2/NDF : 431336.5/8
Left Out: -29.641+/-0.000 χ^2/NDF : 654199.2/24
Right Out: 29.641+/-0.000 χ^2/NDF : 352399.9/10
Left In: 29.641+/-0.000 χ^2/NDF : 511825.6/22

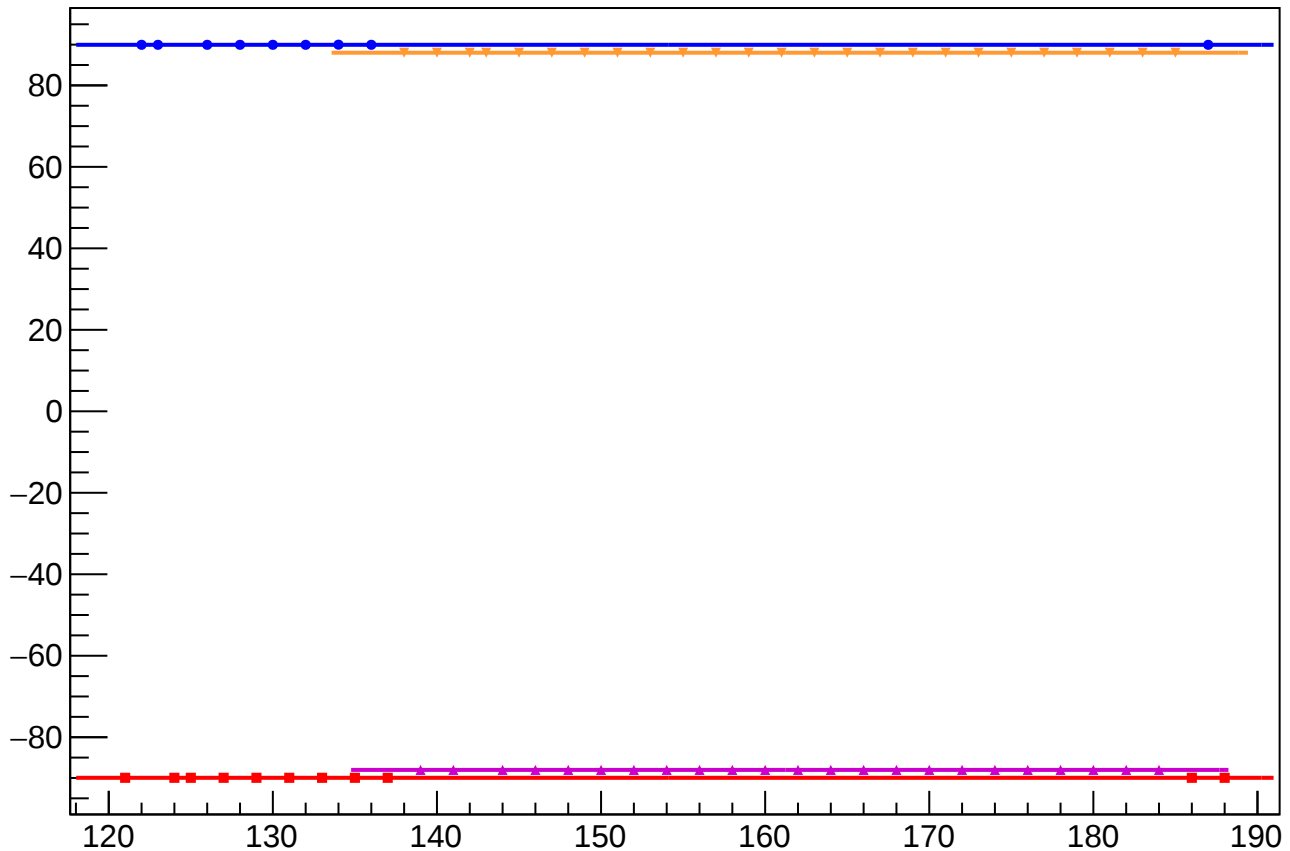
Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519
Right: 3.465+/-0.000 χ^2/NDF : 69671576842609959
In: 19.925+/-0.000 χ^2/NDF : 104309855935341070
Out: -18.357+/-0.000 χ^2/NDF : 1277581933889215
All: -0.033+/-0.000 χ^2/NDF : 3975530195908

psub_pl_pos_mean vs Slug, Sign Corrected



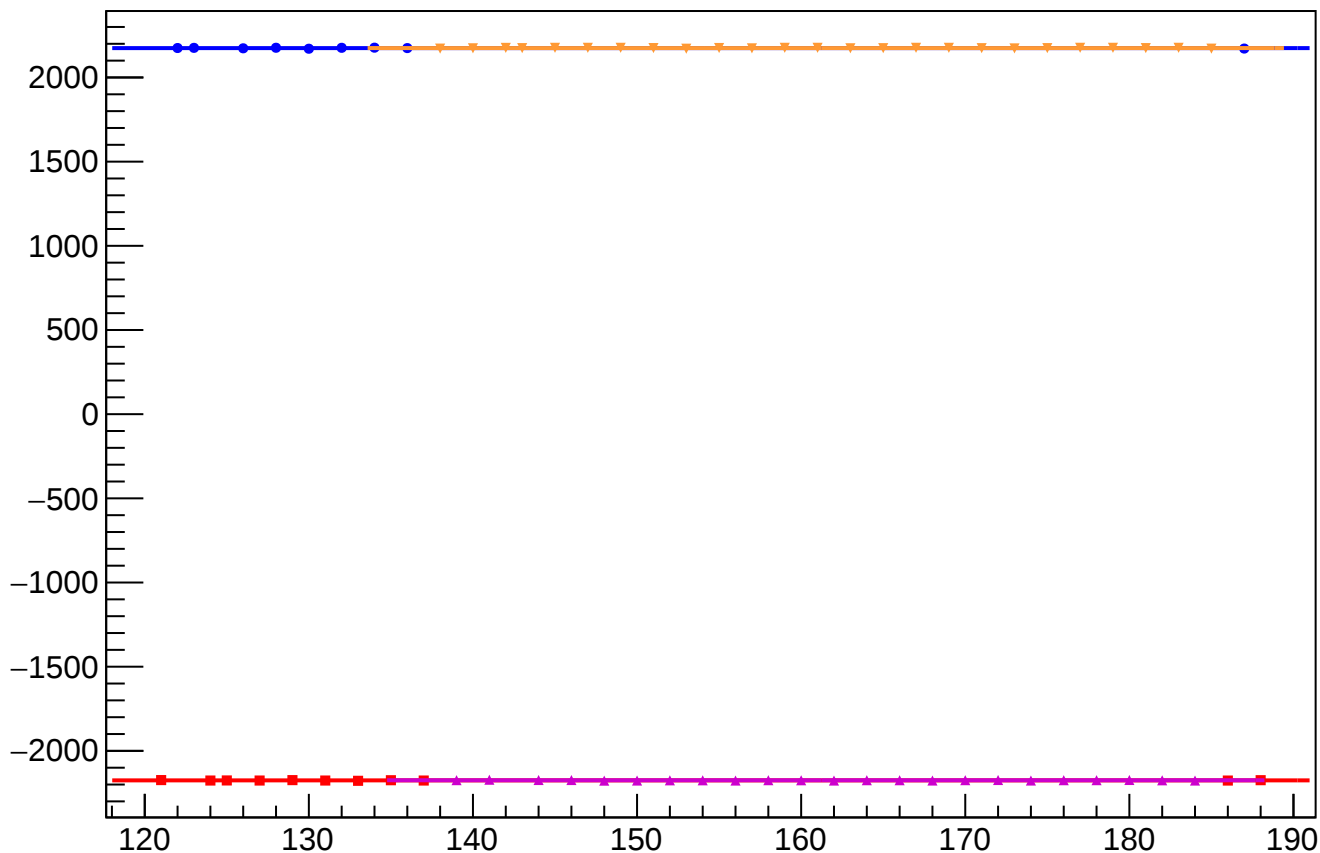
Right In: 1469.423+/-0.000 χ^2/NDF : 15666505254721321231066247821524992.0/8
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127960980922965975039069502046208.0/24
 Right Out: -1350.445+/-0.000 χ^2/NDF : 75781328288501182140186914980007772160.0/10
 Left In: -1467.994+/-0.000 χ^2/NDF : 145848702340275035310993178624.0/22
 All: 13.421+/-0.000 χ^2/NDF : 9679419946397

Phi_FG_mean vs Slug, Sign Corrected



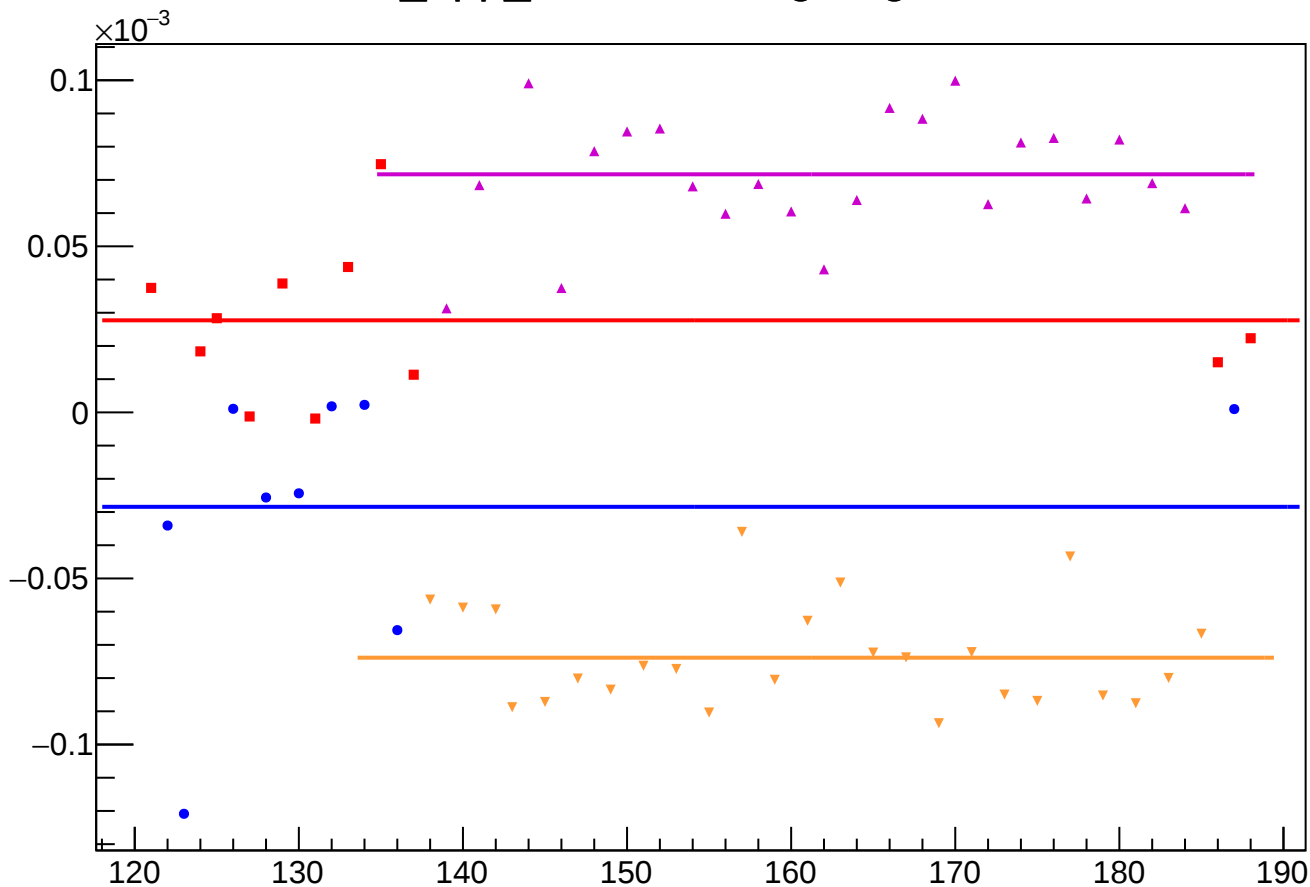
Right In: 89.961+/-0.000 χ^2/NDF : 21580216386362613205223604224.0/8
 Left Out: 88.021+/-0.000 χ^2/NDF : 5326388.8/24
 Right Out: -89.959+/-0.000 χ^2/NDF : 1123842.8/10
 Left In: -88.021+/-0.000 χ^2/NDF : 6084099.2/22
 Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978
 Right: -10.517+/-0.000 χ^2/NDF : 641771136428458
 In: -58.850+/-0.000 χ^2/NDF : 94024340927902593
 Out: 54.145+/-0.000 χ^2/NDF : 11515801552452712
 All: 0.057+/-0.000 χ^2/NDF : 35335604881007

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2174.383+/-0.000 χ^2/NDF : 1405796628819333801699379119128576.0/8
 Left Out: 2174.622+/-0.000 χ^2/NDF : 5110578135476093110874911595823104.0/24
 Right Out: -2175.245+/-0.000 χ^2/NDF : 773542983754432662898103761764352.0/10
 Left In: -2174.539+/-0.000 χ^2/NDF : 3400742562425168967494665391570944.0/22
 All: 2.356+/-0.000 χ^2/NDF : 21398817290675

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 263143887445358798700544.0/8

Left: -0.000+/-0.000

χ^2/NDF : 20702696564433151

Right: 0.000+/-0.000

χ^2/NDF : 10956082264954297

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

In: 0.000+/-0.000

χ^2/NDF : 380027847977087983

Right Out: 0.000+/-0.000

χ^2/NDF : 207362101773390716076032.0/10

Out: -0.000+/-0.000

χ^2/NDF : 44086669313858049

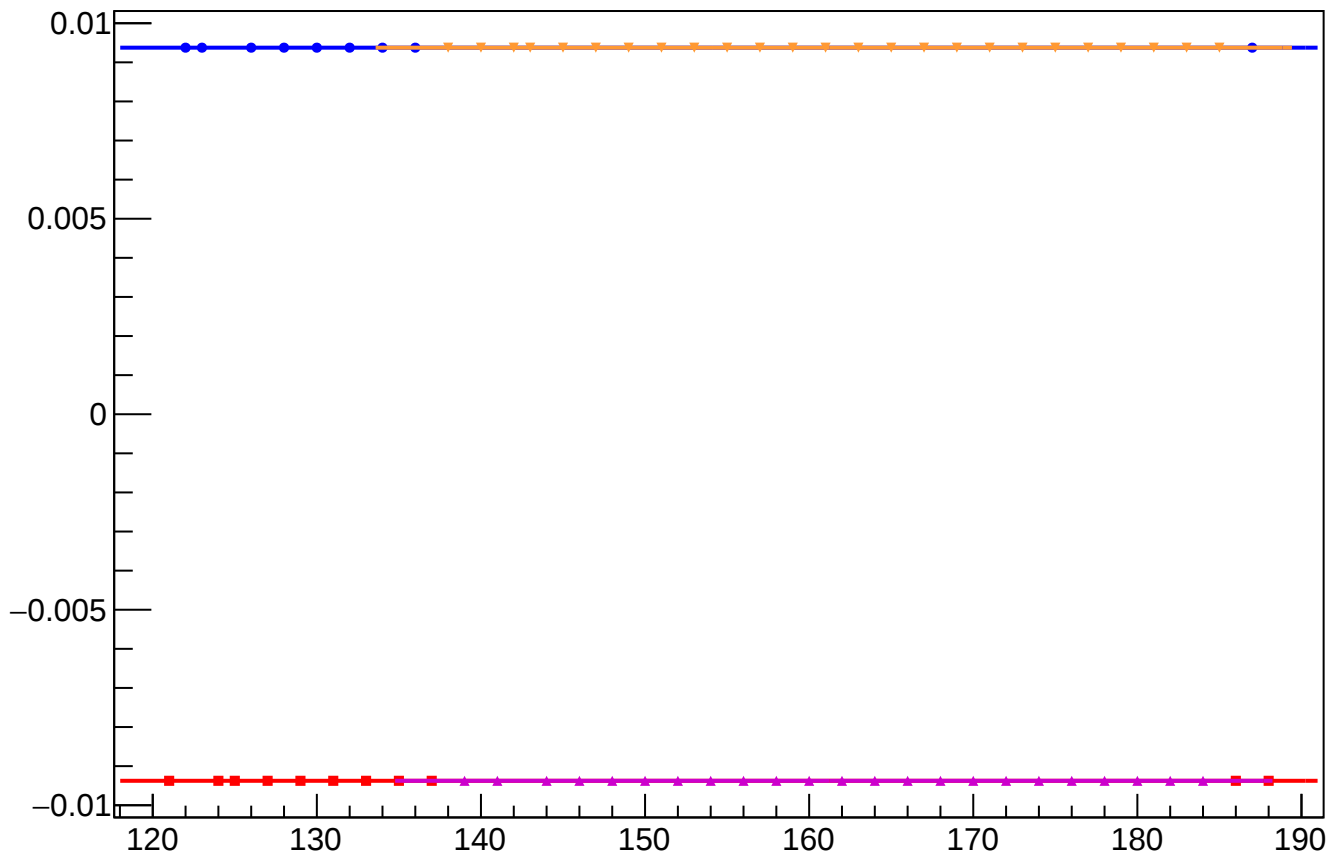
Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

All: -0.000+/-0.000

χ^2/NDF : 2182170682595

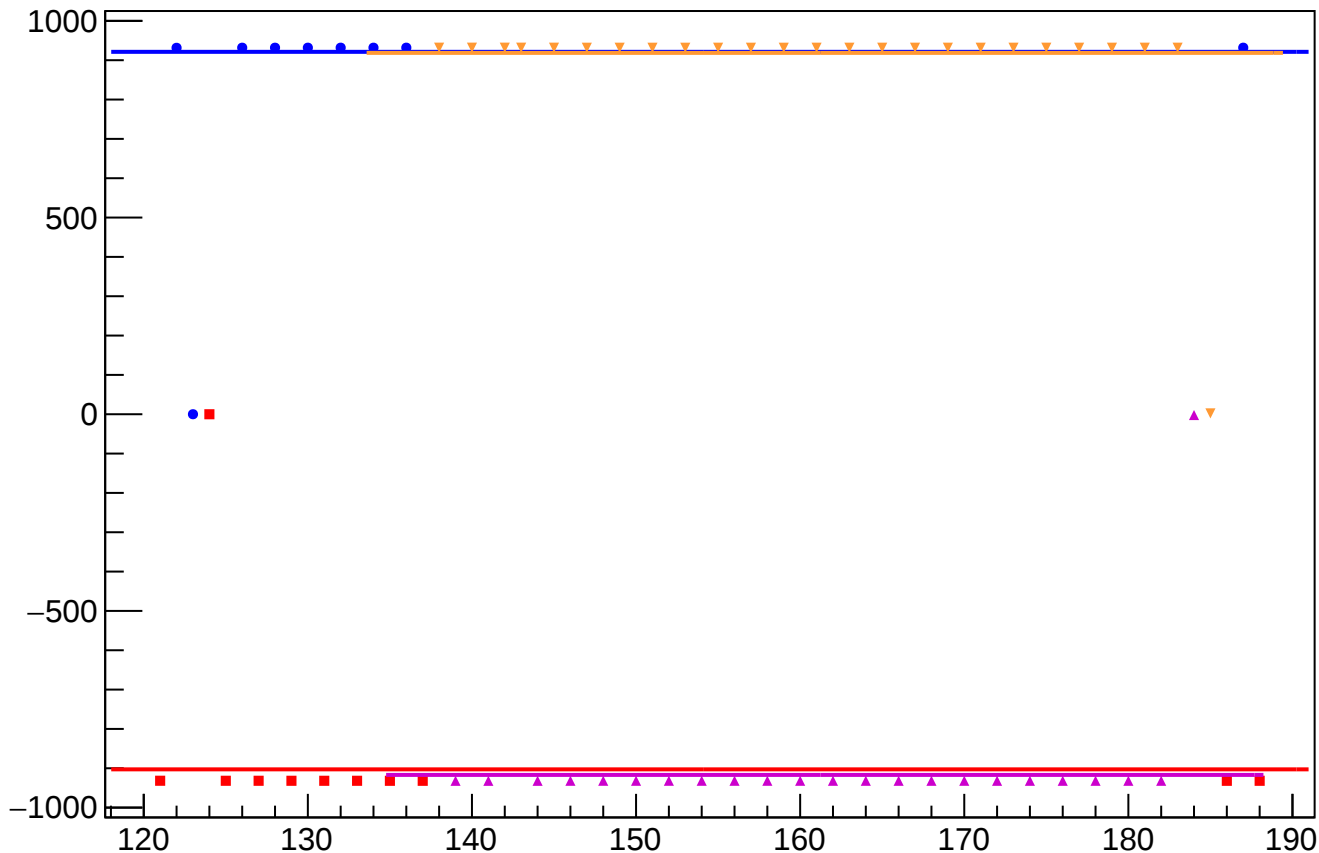
MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.0/8
Left Out: 0.009+/-0.000 χ^2/NDF : 0.1/24
Right Out: -0.009+/-0.000 χ^2/NDF : 0.1/10
Left In: -0.009+/-0.000 χ^2/NDF : 0.1/22

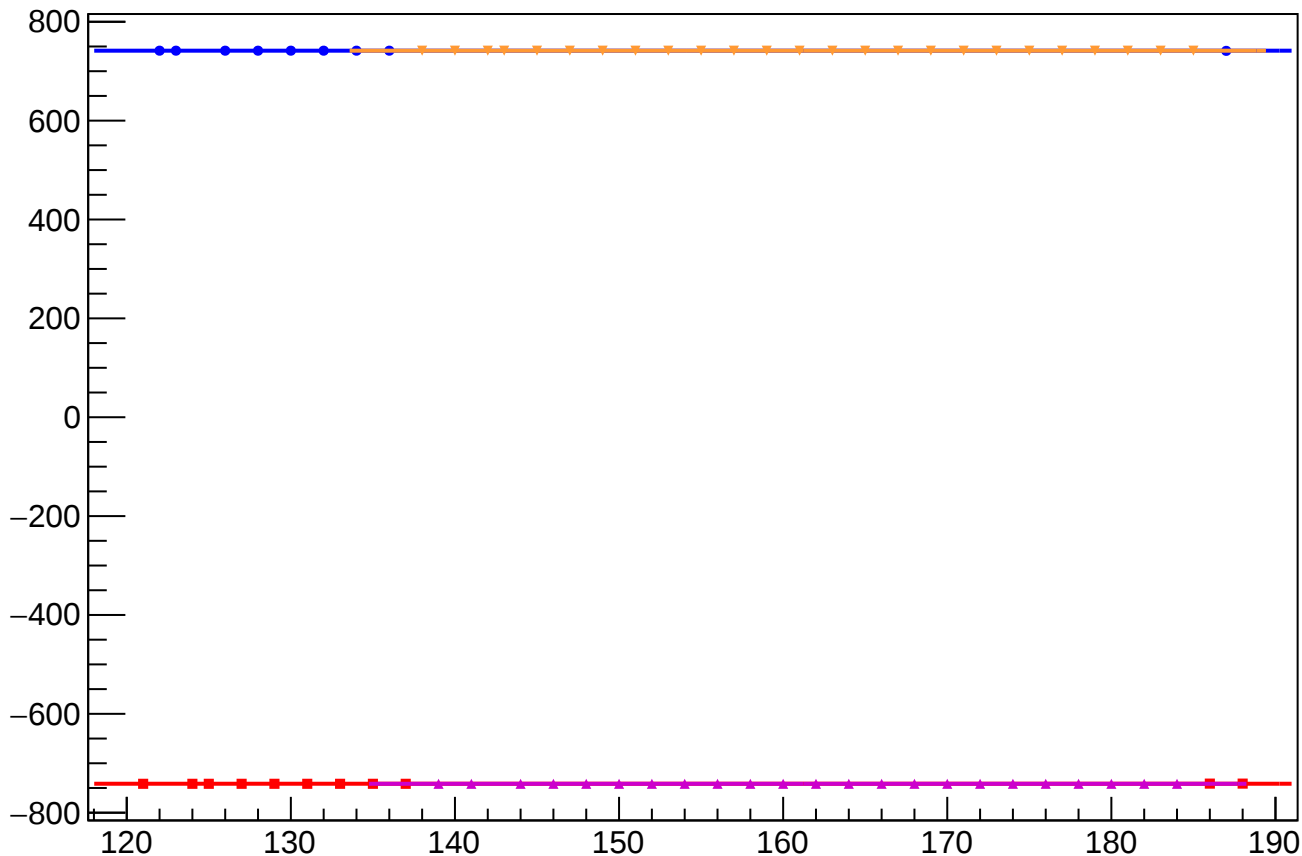
Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718
Right: -0.001+/-0.000 χ^2/NDF : 6969814015858198
In: -0.006+/-0.000 χ^2/NDF : 104349625605955397
Out: 0.006+/-0.000 χ^2/NDF : 127806903083933578
All: 0.000+/-0.000 χ^2/NDF : 39770459254143

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



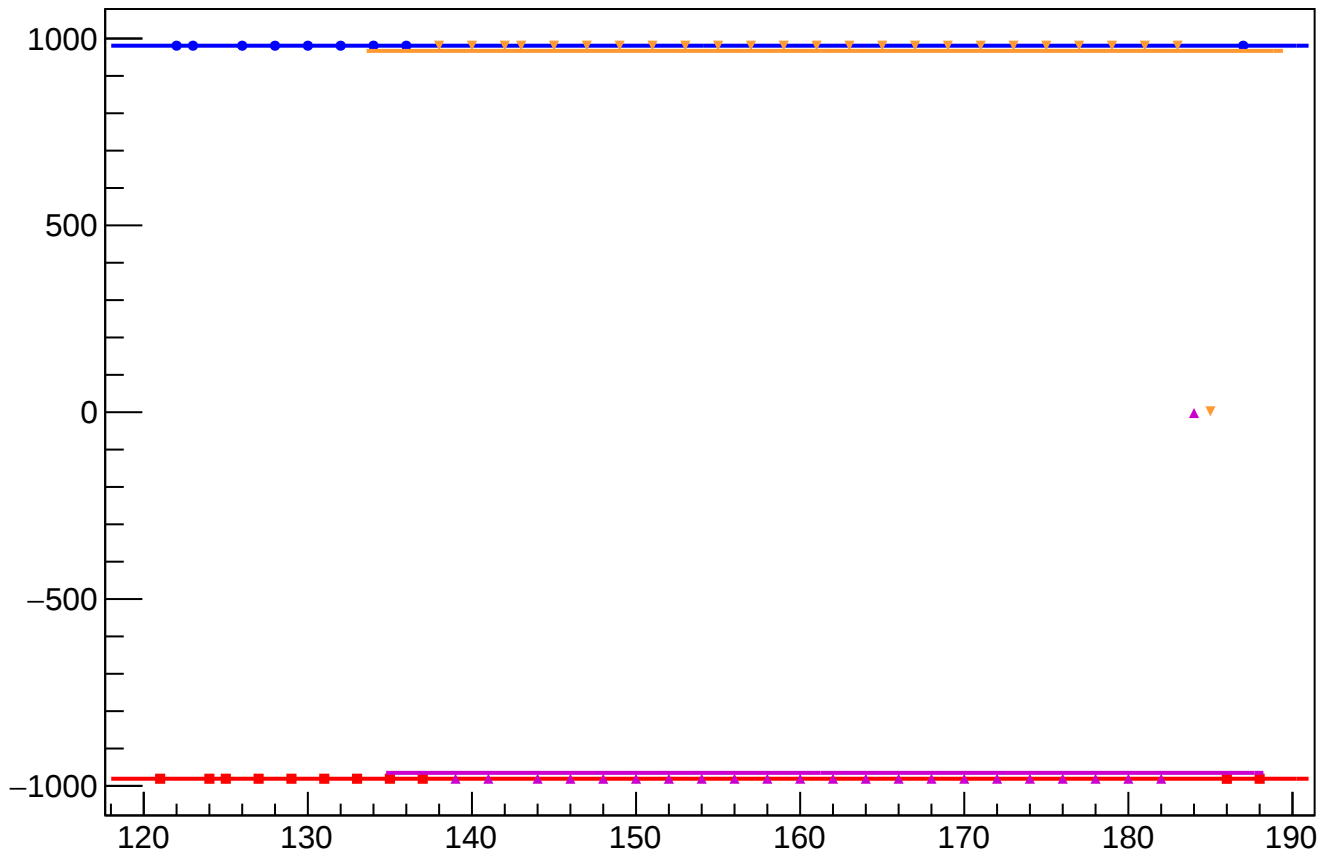
Left: 25.295 +/- 0.000 χ^2/NDF : 31796385721824018
 Right: -97.367 +/- 0.000 χ^2/NDF : 6748418981120000
 In: -615.617 +/- 0.000 χ^2/NDF : 1031026523754589
 Out: 571.966 +/- 0.000 χ^2/NDF : 1240842912613053
 All: 3.501 +/- 0.000 χ^2/NDF : 38644281327218

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 741.511+/-0.000	χ^2/NDF : 2028616892104374725962348101632.0/8	Left: 19.729+/-0.000	χ^2/NDF : 20445098666994125
Left Out: 741.513+/-0.000	χ^2/NDF : 244782737401533731539808944128.0/24	Right: -86.644+/-0.000	χ^2/NDF : 435975019997718
Right Out: -741.421+/-0.000	χ^2/NDF : 12365524190581469761062494535680.0/10	In: -498.450+/-0.000	χ^2/NDF : 6528065425723747
Left In: -741.512+/-0.000	χ^2/NDF : 215375309108434607405602439168.0/22	Out: 459.259+/-0.000	χ^2/NDF : 7994579732677657
	All: 0.829+/-0.000		χ^2/NDF : 24879658533148

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 980.825+/-0.000

χ^2/NDF : 163223523601942808368343154688.0/8

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.851+/-0.000

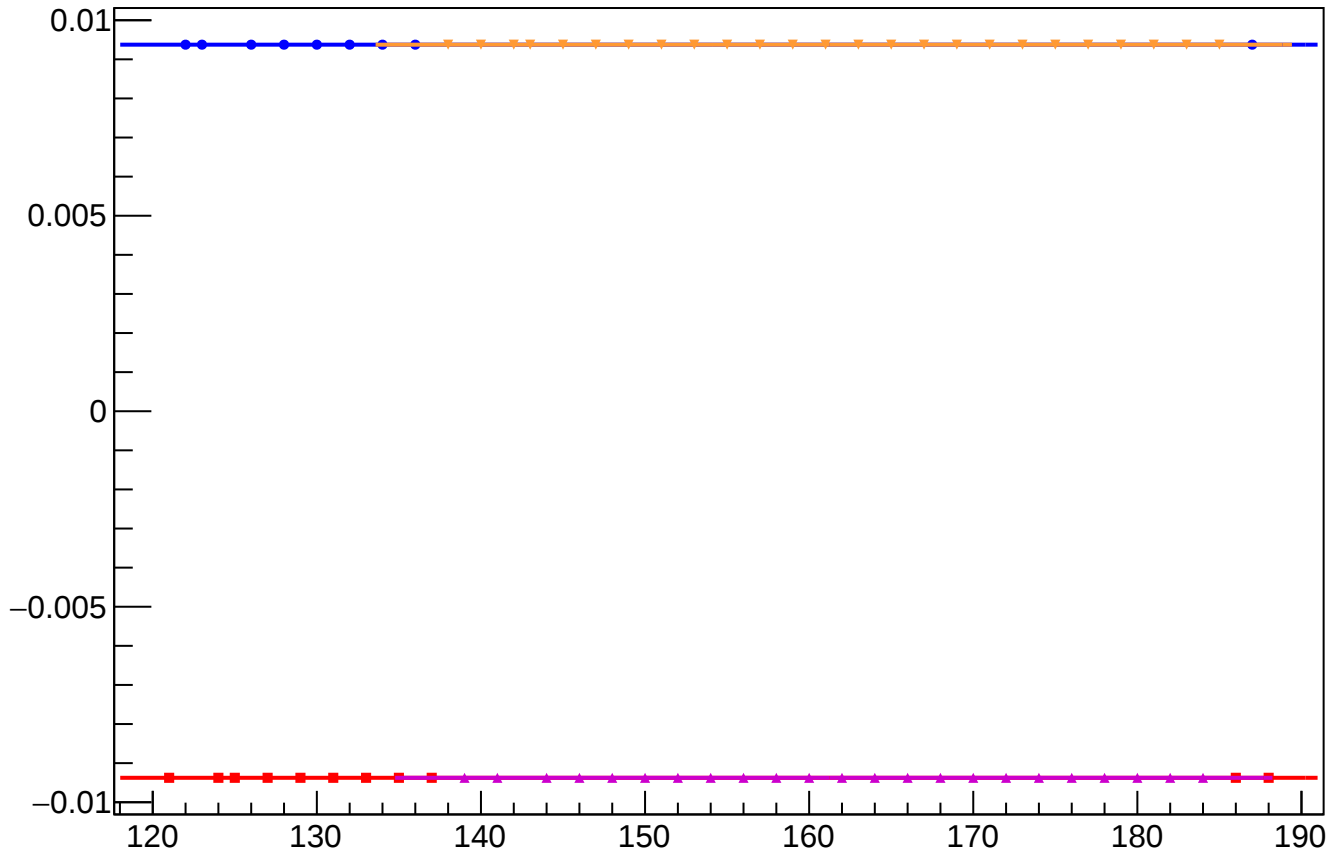
χ^2/NDF : 1772402309418359579980358221824.0/10

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 1.511+/-0.000 χ^2/NDF : 42988798105105

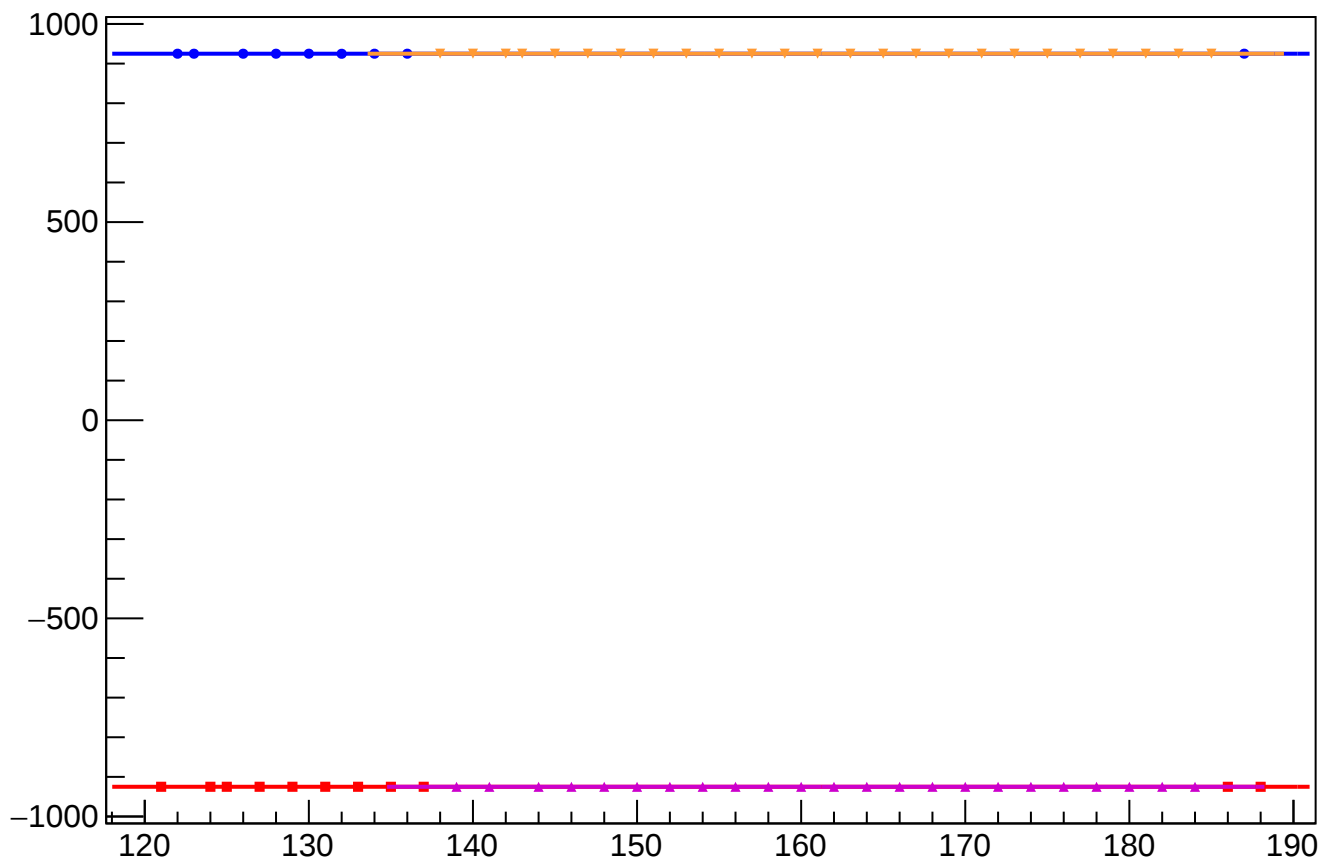
MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.0/8
Left Out: 0.009+/-0.000 χ^2/NDF : 0.1/24
Right Out: -0.009+/-0.000 χ^2/NDF : 0.1/10
Left In: -0.009+/-0.000 χ^2/NDF : 0.1/22

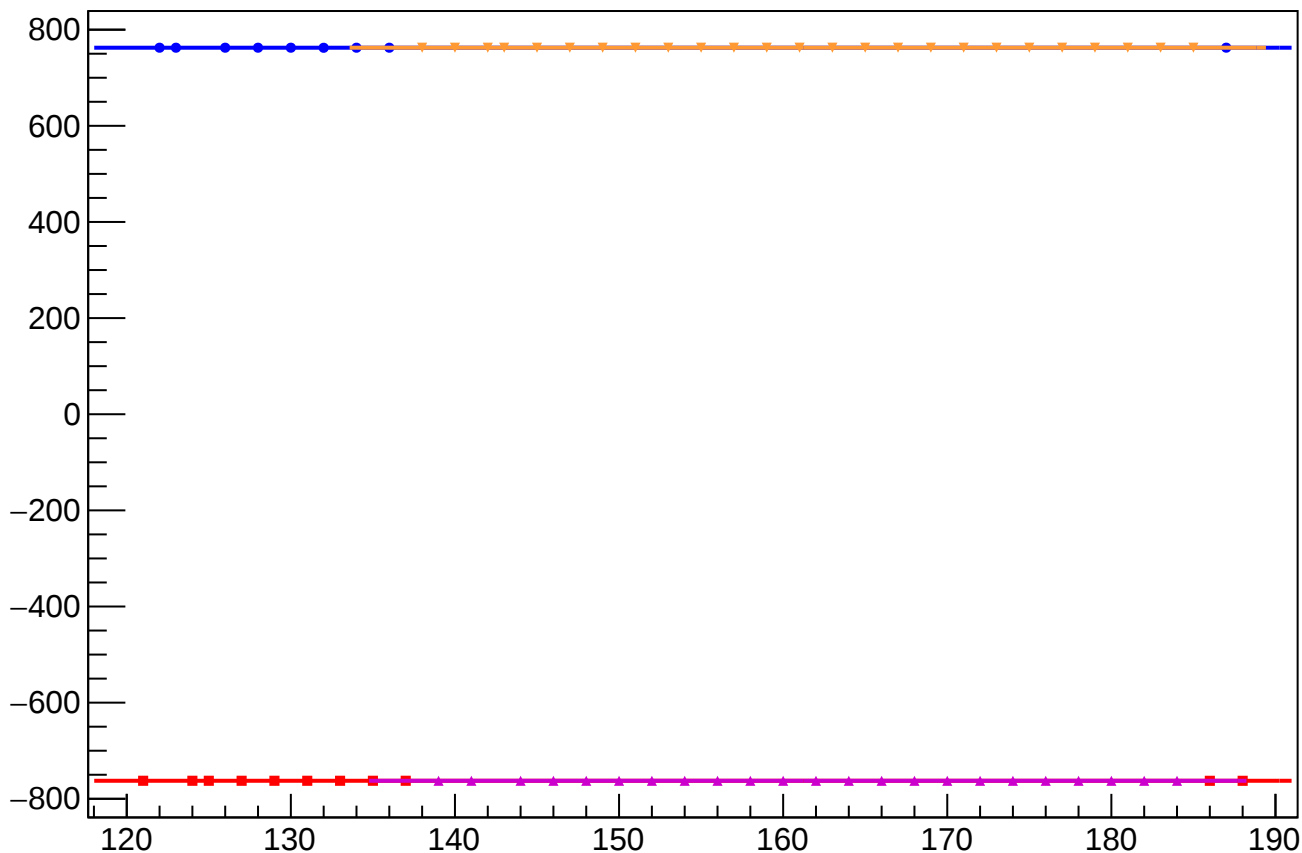
Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718
Right: -0.001+/-0.000 χ^2/NDF : 6969814015858198
In: -0.006+/-0.000 χ^2/NDF : 104349625605955397
Out: 0.006+/-0.000 χ^2/NDF : 127806903083933578
All: 0.000+/-0.000 χ^2/NDF : 39770459254143

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



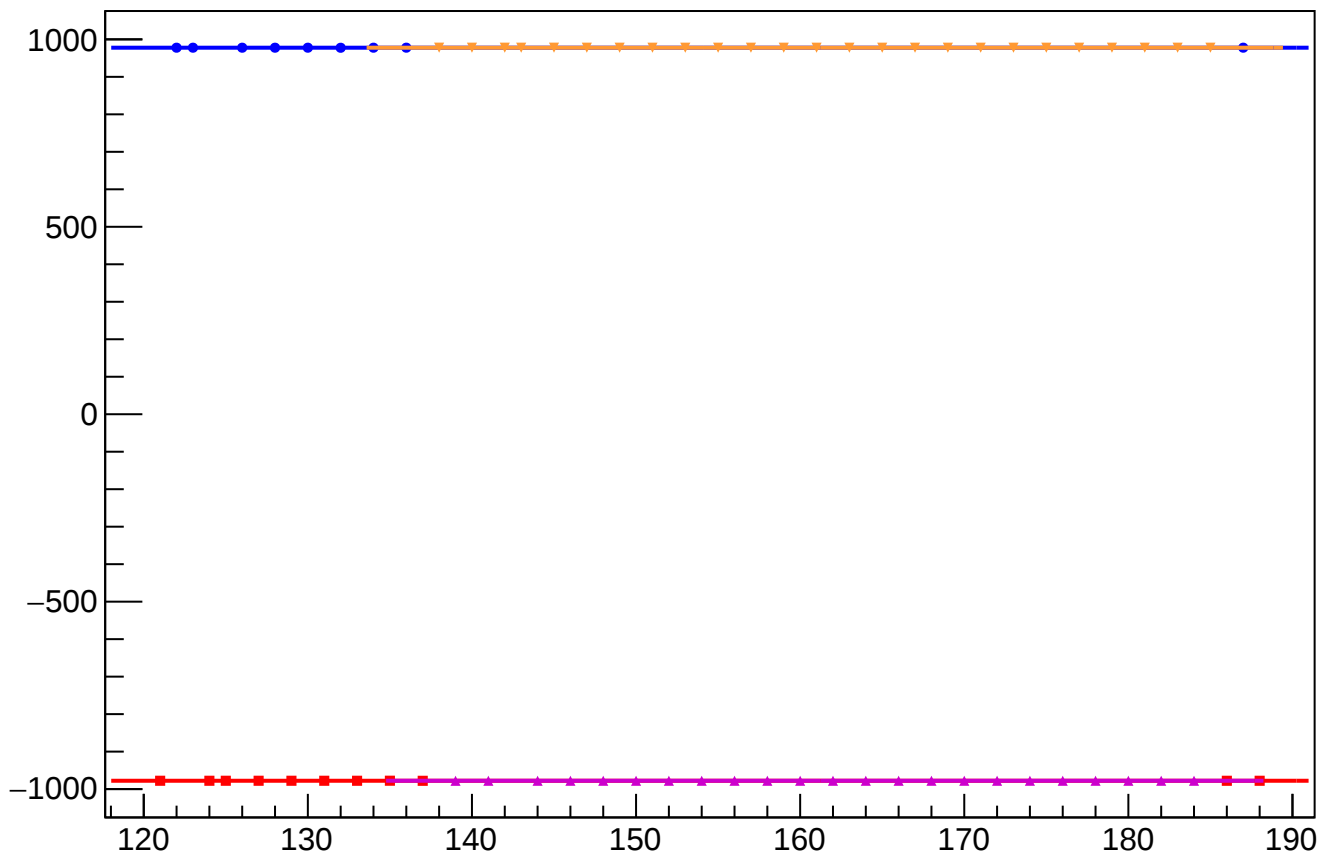
Right In: 924.943+/-0.000	χ^2/NDF : 1492790451787397840510971281408.0/8	Left: 24.610+/-0.000	χ^2/NDF : 31814082693920915
Left Out: 924.983+/-0.000	χ^2/NDF : 1041831865443970524066476982272.0/24	Right: -108.159+/-0.000	χ^2/NDF : 67845980707322
Right Out: -924.976+/-0.000	χ^2/NDF : 465046893580902941397841084416.0/10	In: -621.786+/-0.000	χ^2/NDF : 1015773664948338
Left In: -924.983+/-0.000	χ^2/NDF : 888539224321534960792212865024.0/22	Out: 572.871+/-0.000	χ^2/NDF : 1244159060831991
	All: 1.019+/-0.000		χ^2/NDF : 38715223954269

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



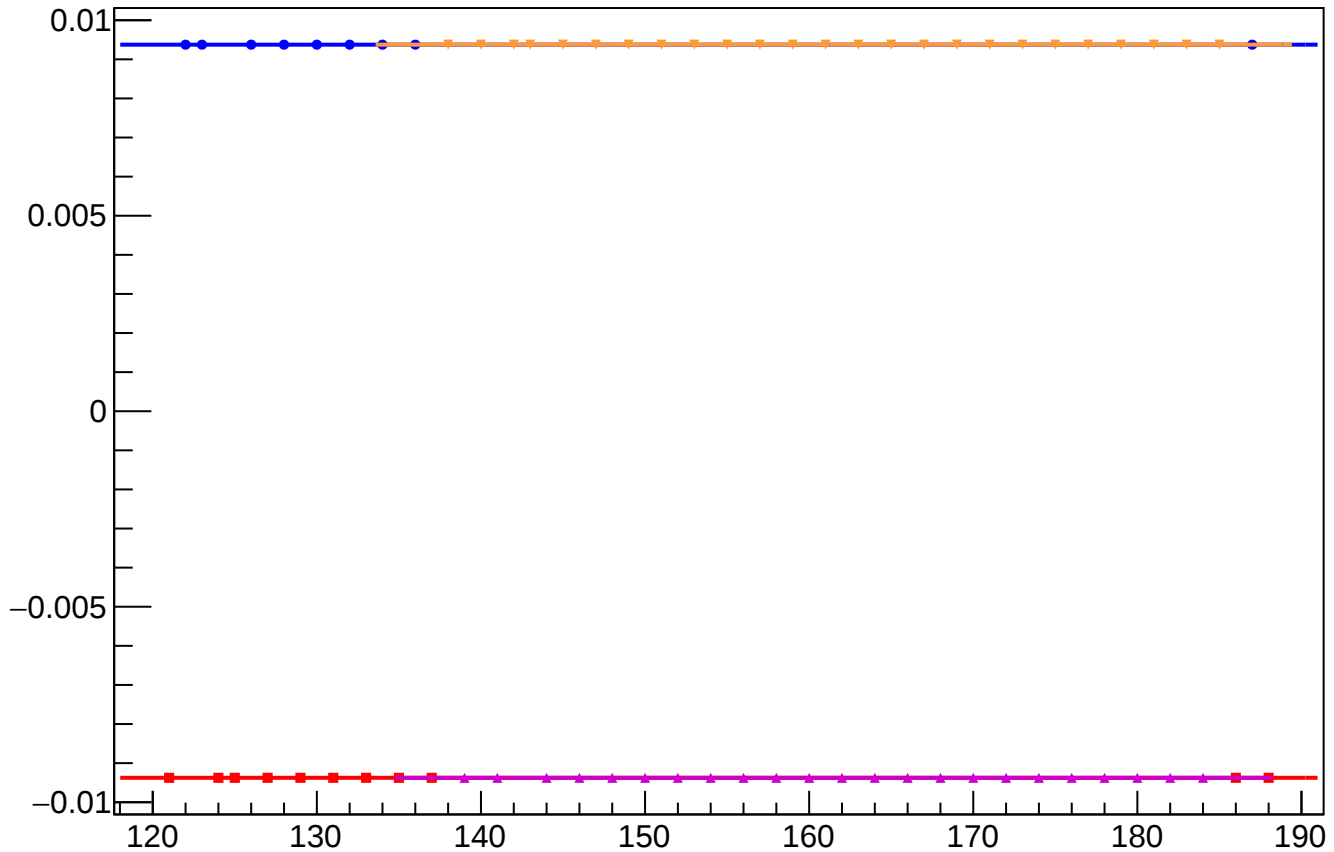
Right In: 762.488+/-0.000	χ^2/NDF : 910710279635233688195426156544.0/8	Left: 20.287+/-0.000	χ^2/NDF : 21619874128230354
Left Out: 762.518+/-0.000	χ^2/NDF : 731741258759628909874415403008.0/24	Right: -89.166+/-0.000	χ^2/NDF : 461067062887950
Right Out: -762.523+/-0.000	χ^2/NDF : 493880802026286301529266716672.0/10	In: -512.576+/-0.000	χ^2/NDF : 6902903568192688
Left In: -762.519+/-0.000	χ^2/NDF : 629058355419214408155297480704.0/22	Out: 472.250+/-0.000	χ^2/NDF : 8455022721178406
	All: 0.839+/-0.000		χ^2/NDF : 26309749956290

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.744+/-0.000 χ^2/NDF : 1796434142186154749184889061376.0/8
 Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.751+/-0.000 χ^2/NDF : 978503395733679533050610843648.0/10
 Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: 1.081+/-0.000 χ^2/NDF : 43257687665827

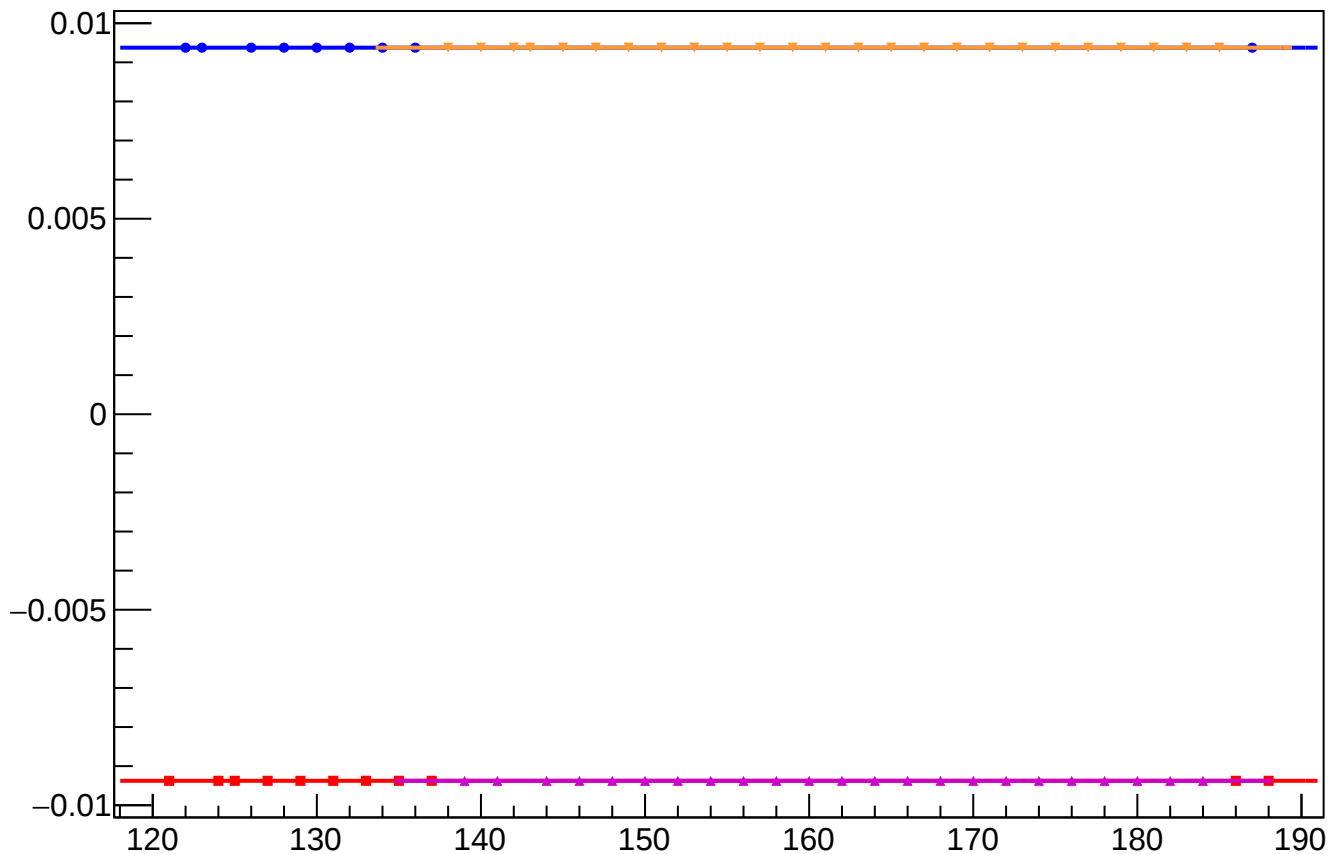
hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.0/8
 Left Out: 0.009+/-0.000 χ^2/NDF : 0.1/24
 Right Out: -0.009+/-0.000 χ^2/NDF : 0.1/10
 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 : 6969814015858198
 In: -0.006+/-0.000 χ^2/NDF : 104349625605955397
 Out: 0.006+/-0.000 χ^2/NDF : 127806903083933578
 All: 0.000+/-0.000 χ^2/NDF : 39770459254143

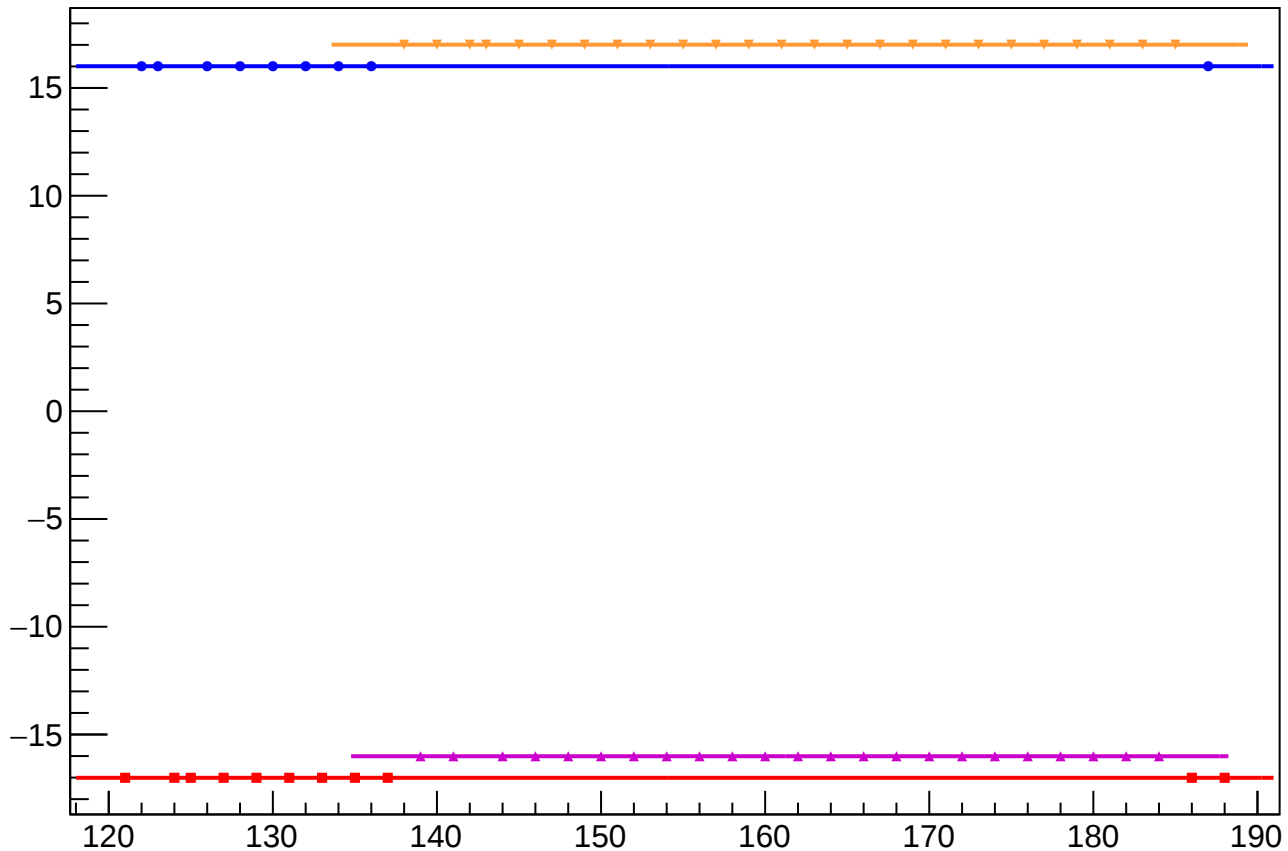
MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.0/8
 Left Out: 0.009+/-0.000 χ^2/NDF : 0.1/24
 Right Out: -0.009+/-0.000 χ^2/NDF : 0.1/10
 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 : 6969814015858198
 In: -0.006+/-0.000 χ^2/NDF : 104349625605955397
 Out: 0.006+/-0.000 χ^2/NDF : 127806903083933578
 All: 0.000+/-0.000 χ^2/NDF : 39770459254143

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



Left: 0.939 $\pm$ 0.000 χ^2/NDF : 941837157361130802

Right: -2.753 $\pm$ 0.000 χ^2/NDF : 2038201591338040

In: -10.774 $\pm$ 0.000 χ^2/NDF : 28213744792461365

Out: 10.338 $\pm$ 0.000 χ^2/NDF : 40282669650968802

All: 0.272 $\pm$ 0.000 χ^2/NDF : 11541701821565

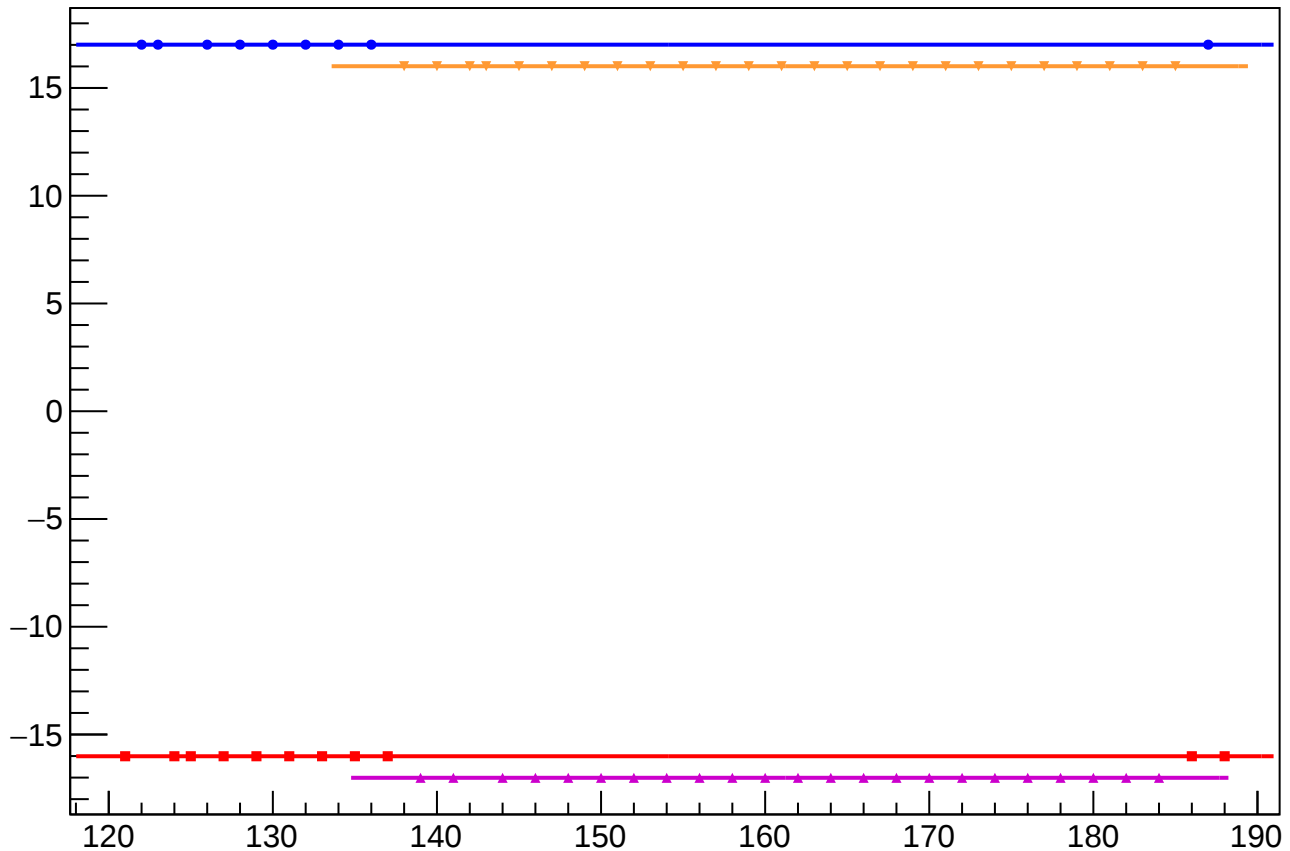
Right In: 16.009 $\pm$ 0.000 χ^2/NDF : 45981.1/8

Left Out: 17.009 $\pm$ 0.000 χ^2/NDF : 26284444608576238643052544.0/24

Right Out: -17.009 $\pm$ 0.000 χ^2/NDF : 9986180366773979357118464.0/10

Left In: -16.009 $\pm$ 0.000 χ^2/NDF : 127973174512756677672960.0/22

IGL1I00OD16_16_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2/NDF : 77371.5/8

Left Out: 16.009 $\pm$ 0.000 χ^2/NDF : 89740.8/24

Right Out: -16.009 $\pm$ 0.000 χ^2/NDF : 144834.9/10

Left In: -17.009 $\pm$ 0.000 χ^2/NDF : 115033472633445654986752.0/22

Left: 0.042 $\pm$ 0.000 χ^2/NDF : 994312337700629058

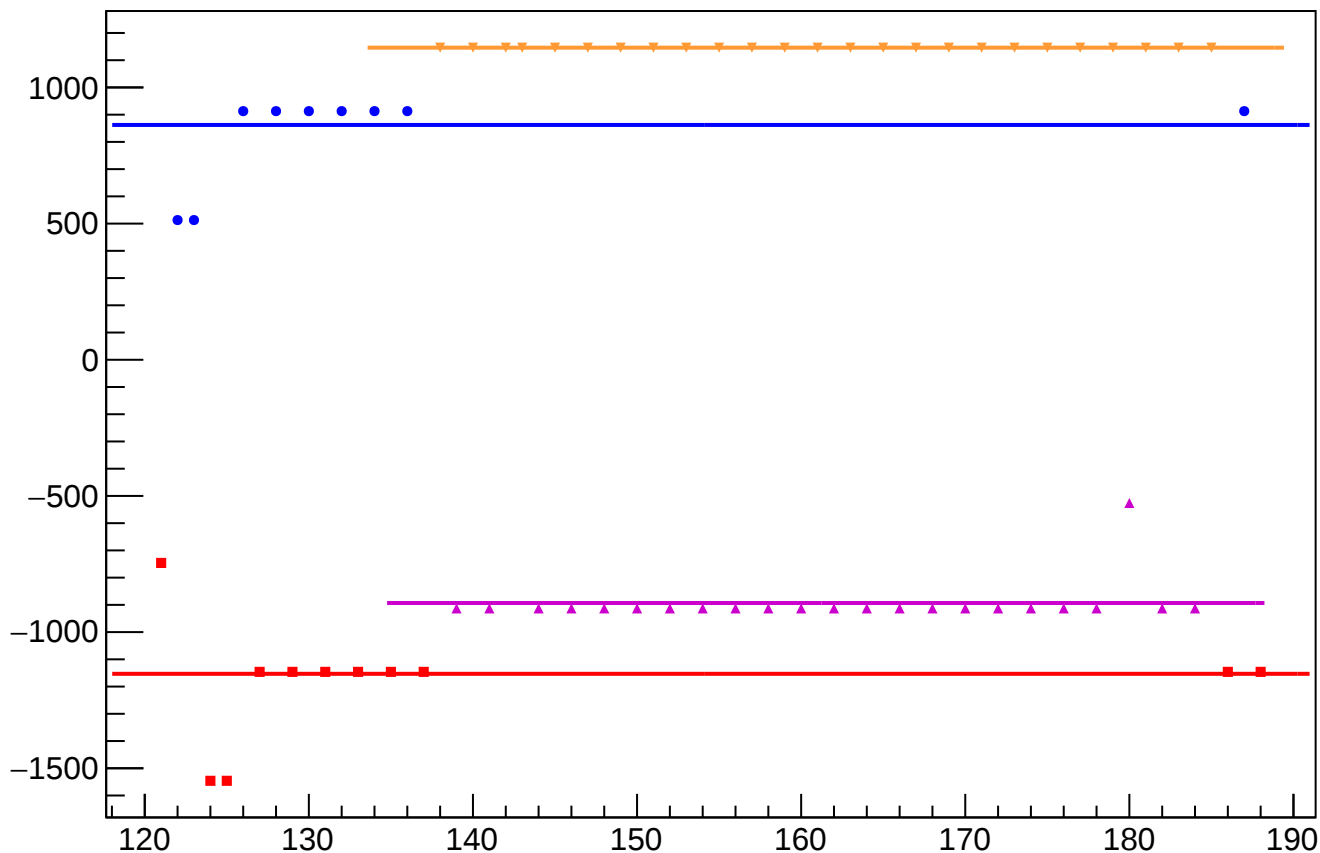
Right: -1.430 $\pm$ 0.000 χ^2/NDF : 2161423661067223

In: -11.316 $\pm$ 0.000 χ^2/NDF : 34207004275163672

Out: 9.852 $\pm$ 0.000 χ^2/NDF : 371800432765759227

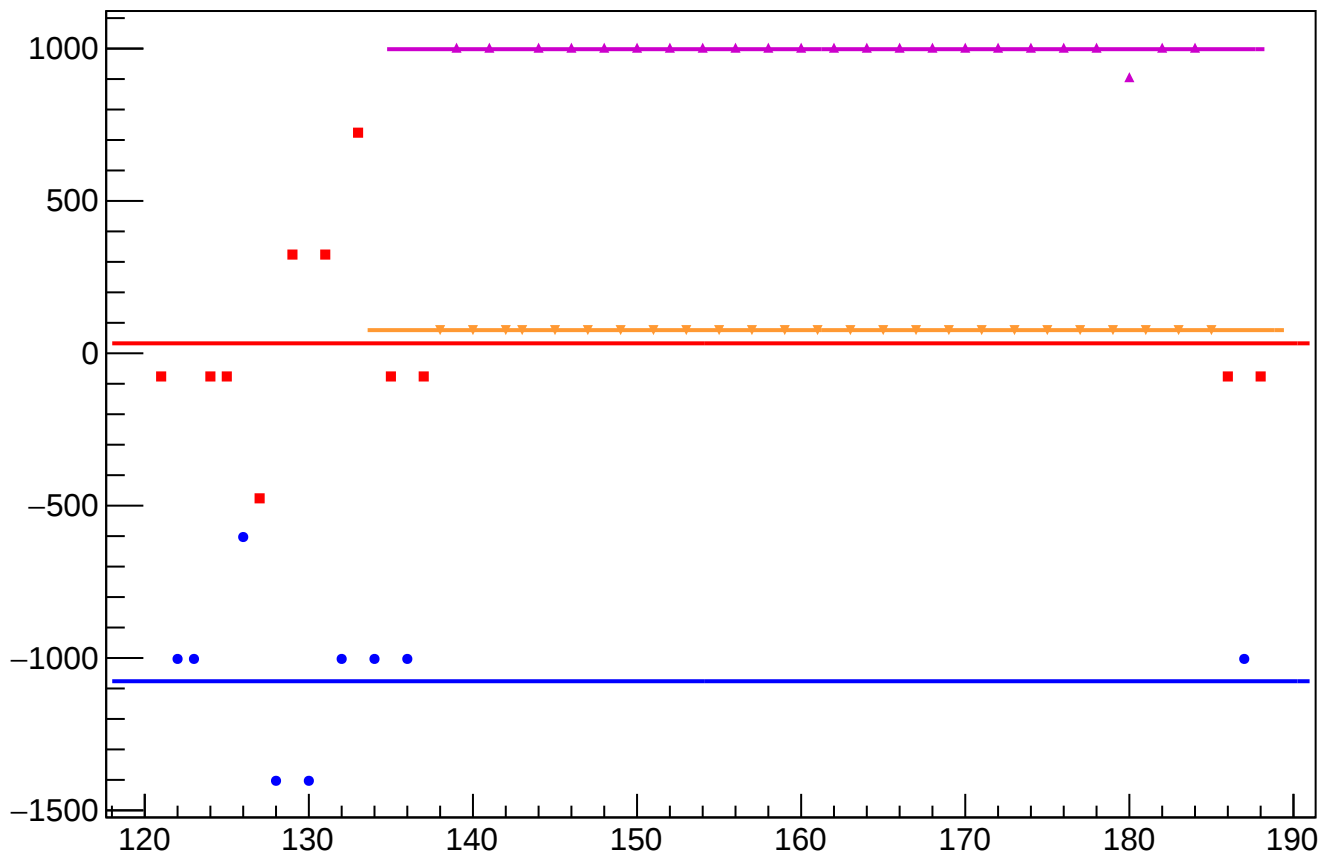
All: -0.223 $\pm$ 0.000 χ^2/NDF : 1211883786357

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Left: 153.574+/-0.000 χ^2/NDF : 3878499194076111
 Right In: 862.288+/-0.000 χ^2/NDF : 6287383554096374754523801651018465280.0/8
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1153.137+/-0.000 χ^2/NDF : 13737861351801416055381959770321715200.0/10
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 79.514+/-0.000 χ^2/NDF : 4818677487507

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1076.228+/-0.000

χ^2/NDF : 21295452367166071100202855617009811456.0/8

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: 32.766+/-0.000

χ^2/NDF : 41735832039784643419524751117523091456.0/10

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 350.322+/-0.000 χ^2/NDF : 173506143383