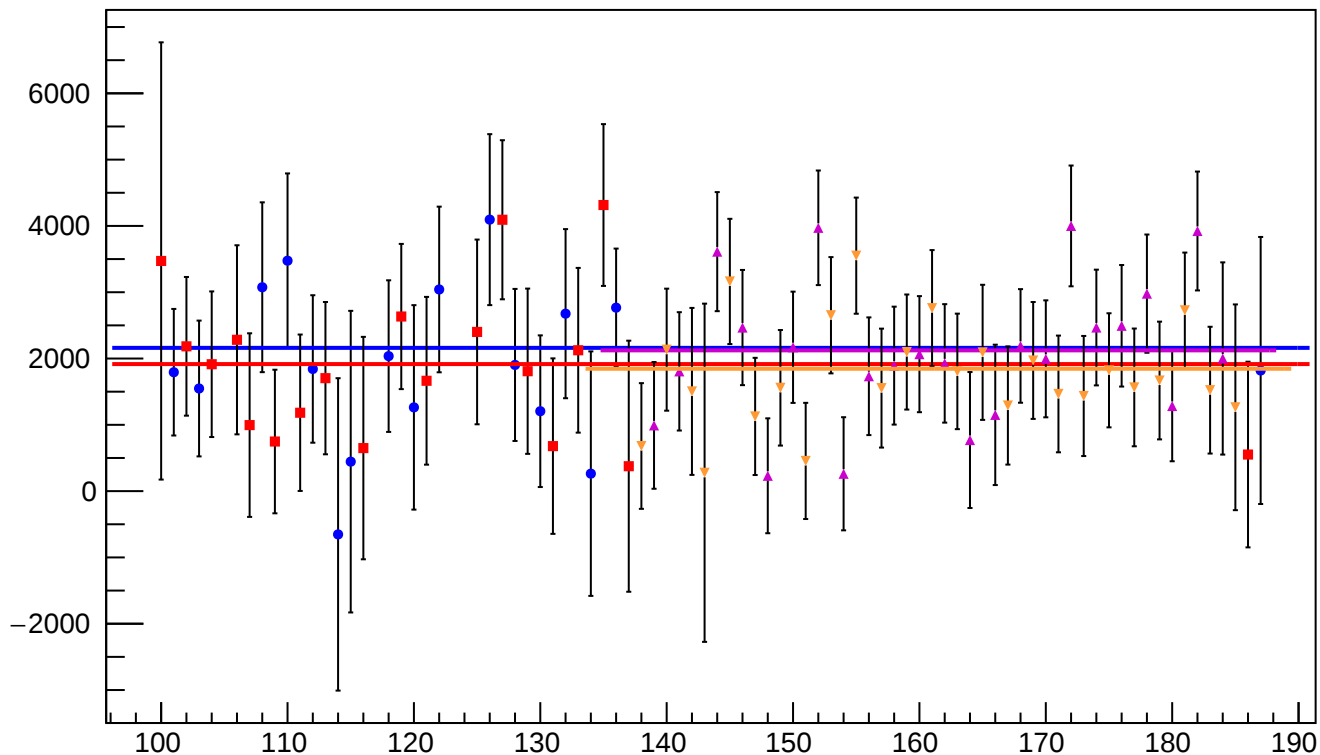


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2160.929+/-304.461

Left Out: 1845.799+/-186.902

Right Out: 1916.193+/-294.567

Left In: 2123.138+/-188.684

χ^2/NDF : 9.7/16

χ^2/NDF : 15.5/24

χ^2/NDF : 13.2/18

χ^2/NDF : 32.0/22

Left: 1983.152+/-132.785

Right: 2034.520+/-211.702

In: 2133.625+/-160.382

Out: 1866.004+/-157.815

All: 1997.655+/-112.489

χ^2/NDF : 48.6/47

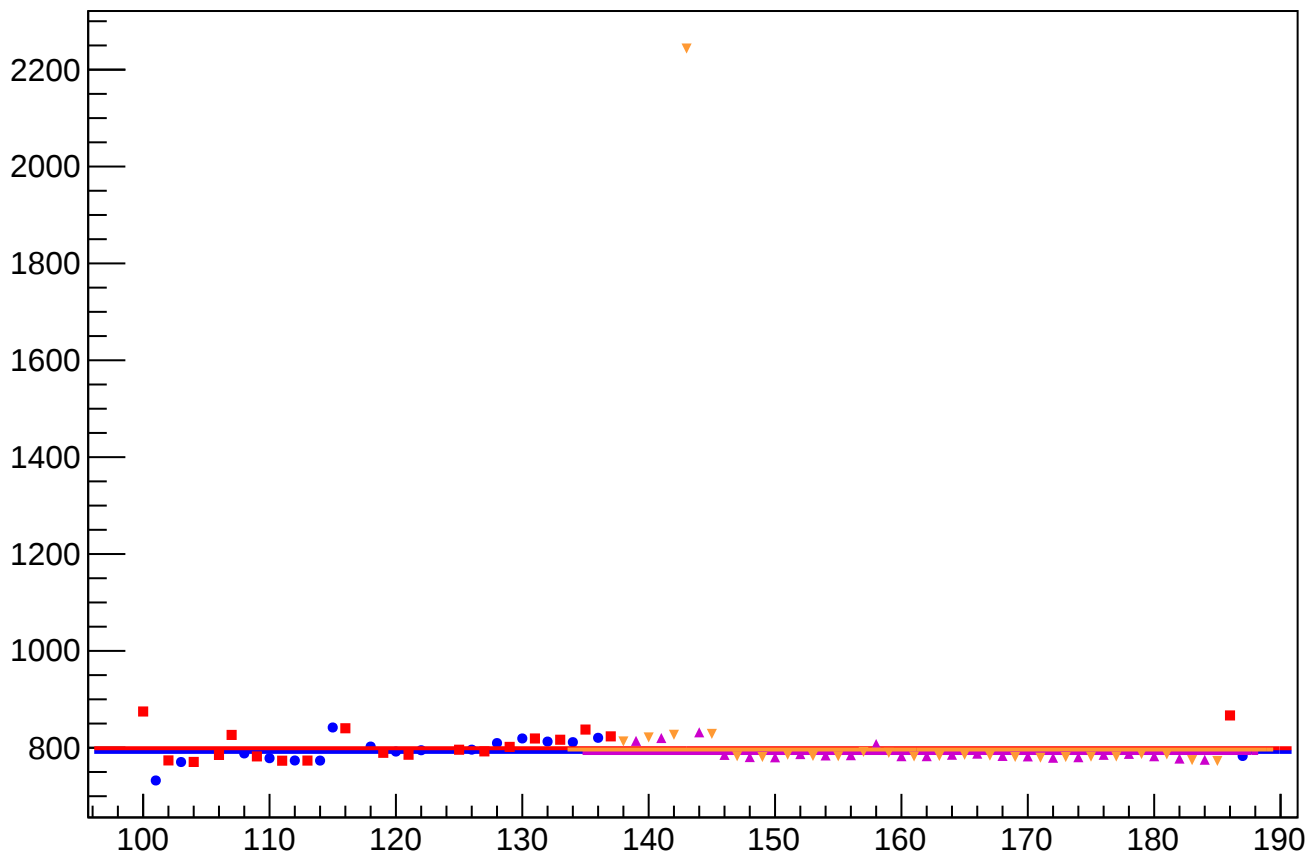
χ^2/NDF : 23.2/35

χ^2/NDF : 41.7/39

χ^2/NDF : 28.8/43

χ^2/NDF : 71.8/83

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: 799.057 $\pm$ 0.208 χ^2 /NDF: 16467.9/18

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

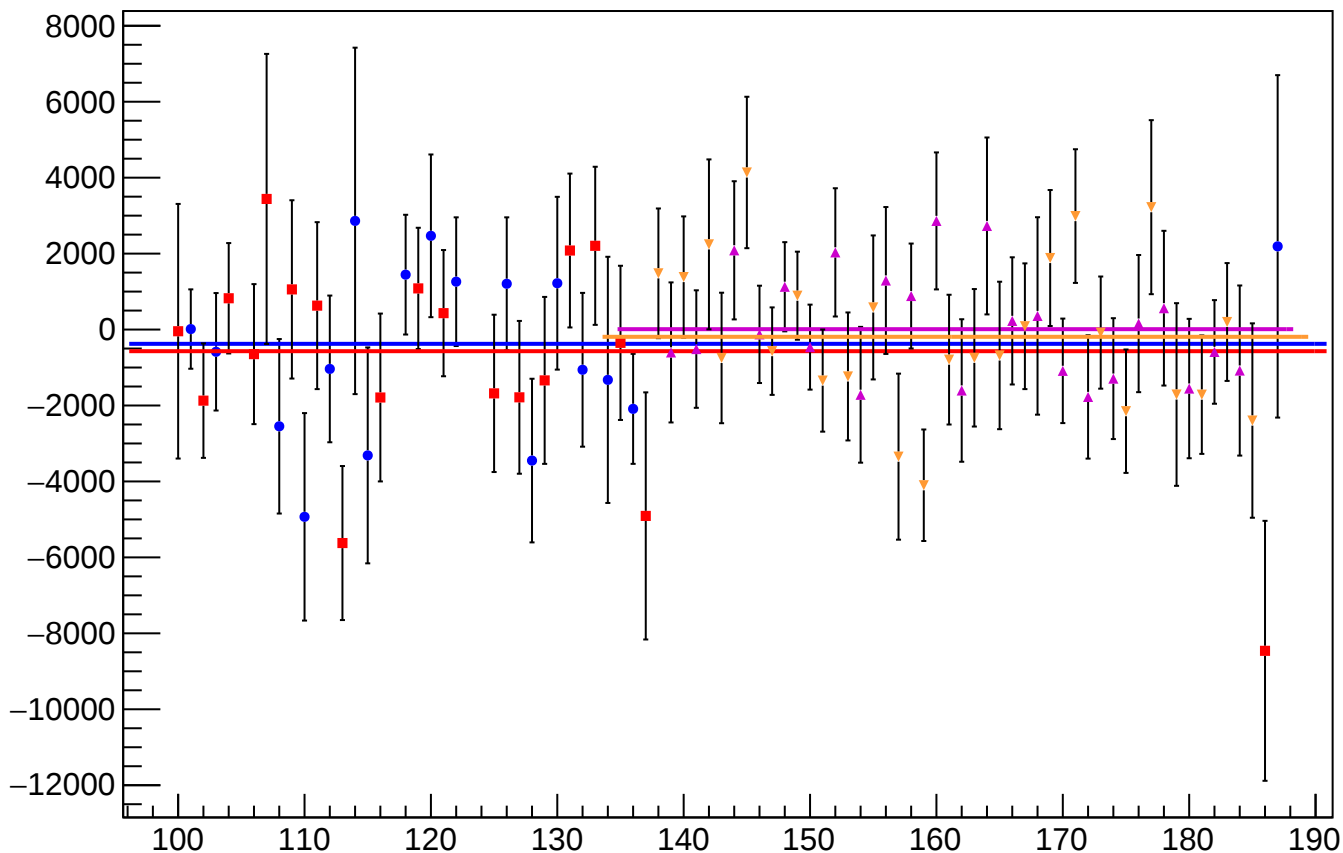
Right: 795.415 $\pm$ 0.150 χ^2 /NDF: 32257.9/35

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

Out: 797.192 $\pm$ 0.112 χ^2 /NDF: 675289.1/43

All: 793.572 $\pm$ 0.080 χ^2 /NDF: 704014.1/83

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: -569.740+/-469.359 χ^2/NDF : 22.9/18

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

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

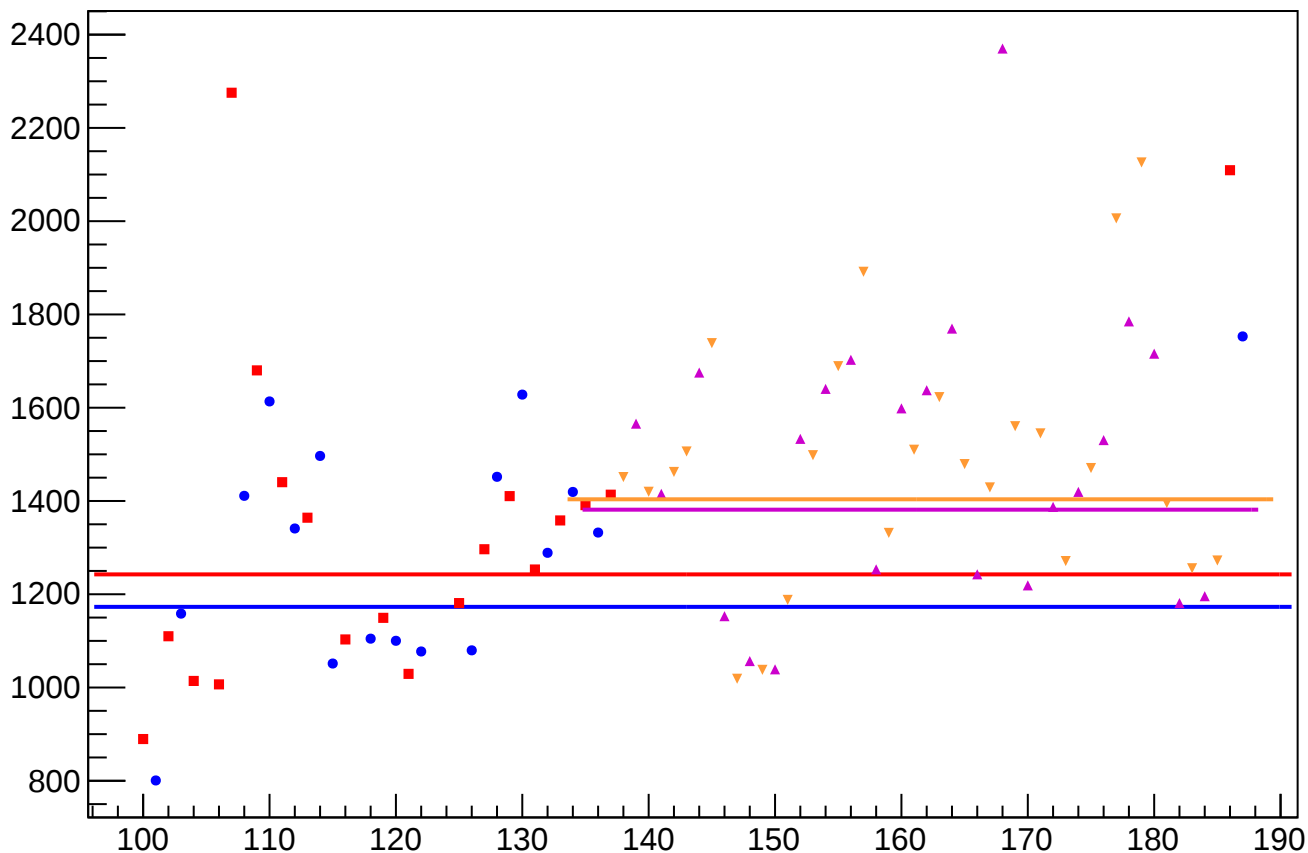
Right: -471.510+/-329.614 χ^2/NDF : 37.8/35

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

Out: -318.287+/-272.079 χ^2/NDF : 53.4/43

All: -221.440+/-192.677 χ^2/NDF : 83.2/83

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: 1242.602 $\pm$ 0.332 χ^2 /NDF: 572059.5/18

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

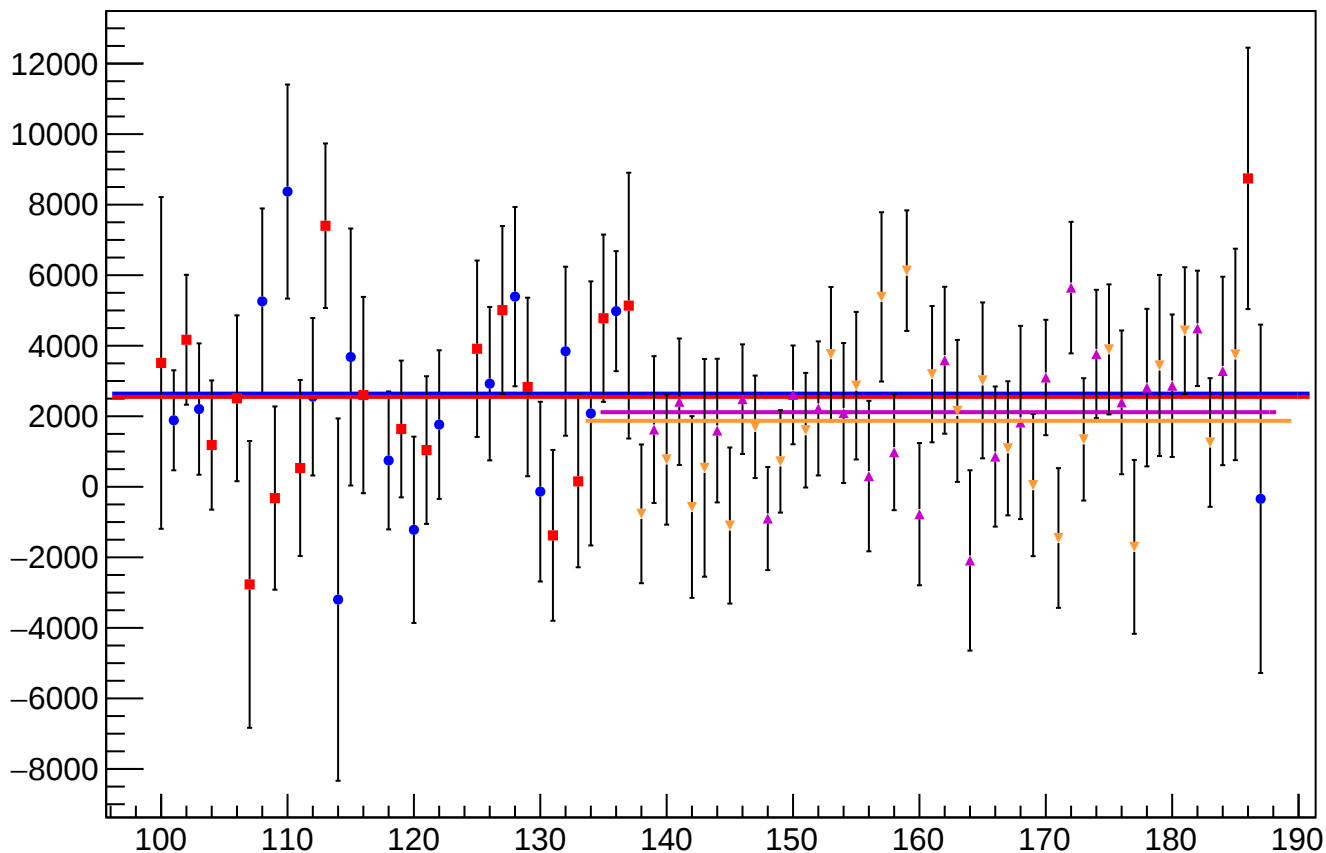
Right: 1207.305 $\pm$ 0.233 χ^2 /NDF: 1157605.6/35

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

Out: 1349.506 $\pm$ 0.192 χ^2 /NDF: 1854849.6/43

All: 1329.293 $\pm$ 0.136 χ^2 /NDF: 3981140.6/83

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2642.308 $\pm$ 564.868 χ^2 /NDF: 14.4/16

Left Out: 1871.638 $\pm$ 391.684 χ^2 /NDF:26.1/24

Right Out: 2549.567 $\pm$ 563.693 χ^2 /NDF: 19.1/18

Left In: 2116.114 $\pm$ 392.997 χ^2 /NDF:18.8/22

Left: 1993.467 $\pm$ 277.425 χ^2 /NDF: 45.1/47

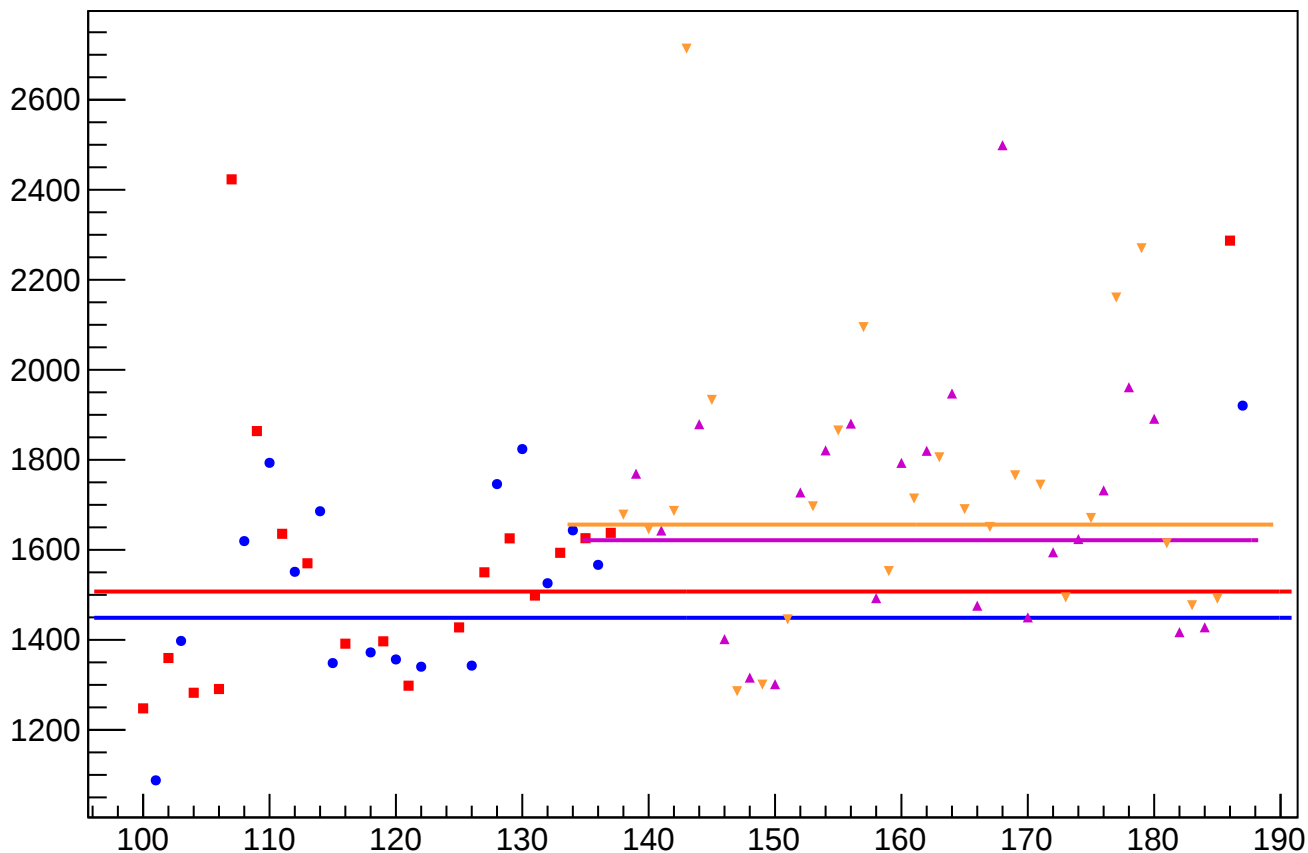
Right: 2595.841 $\pm$ 399.006 χ^2 /NDF: 33.6/35

In: 2287.740 $\pm$ 322.601 χ^2 /NDF:33.8/39

Out: 2092.378 $\pm$ 321.656 χ^2 /NDF:46.2/43

All: 2189.772 $\pm$ 227.778 χ^2 /NDF: 80.2/83

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1449.051 $\pm$ 0.399 χ^2/NDF : 296745.1/16

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

Right Out: 1507.369 $\pm$ 0.399 χ^2/NDF : 347272.5/18

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

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

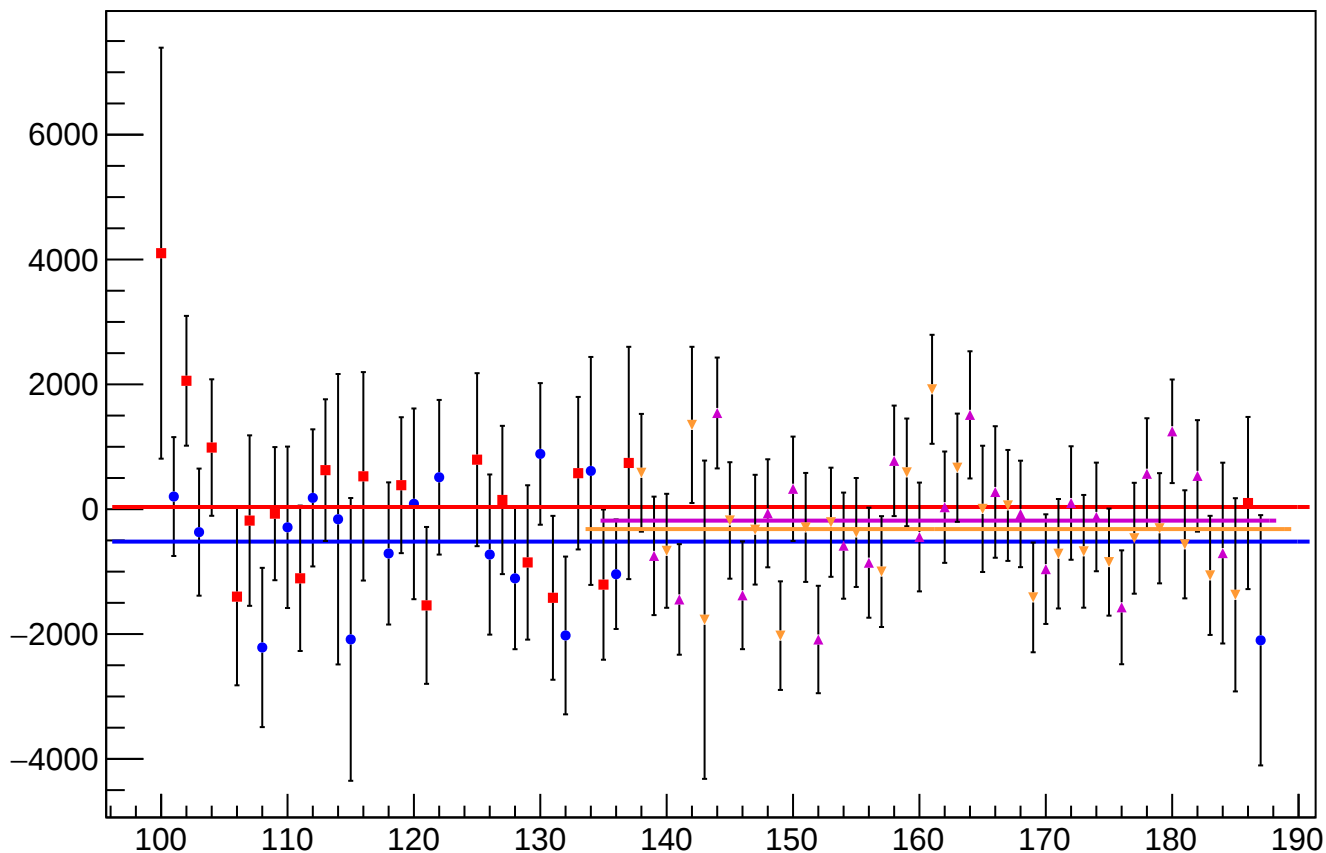
Right: 1478.271 $\pm$ 0.282 χ^2/NDF : 654698.6/35

In: 1565.197 $\pm$ 0.228 χ^2/NDF : 1197539.7/39

Out: 1607.685 $\pm$ 0.227 χ^2/NDF : 1351768.6/43

All: 1586.503 $\pm$ 0.161 χ^2/NDF : 2566705.1/83

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -519.094 ± 301.860 χ^2/NDF : 8.8/16

Left Out: -318.336 ± 186.041 χ^2/NDF : 20.4/24

Right Out: 35.436 ± 291.698 χ^2/NDF : 13.6/18

Left In: -182.895 ± 187.817 χ^2/NDF : 26.1/22

Left: -251.259 ± 132.174 χ^2/NDF : 46.8/47

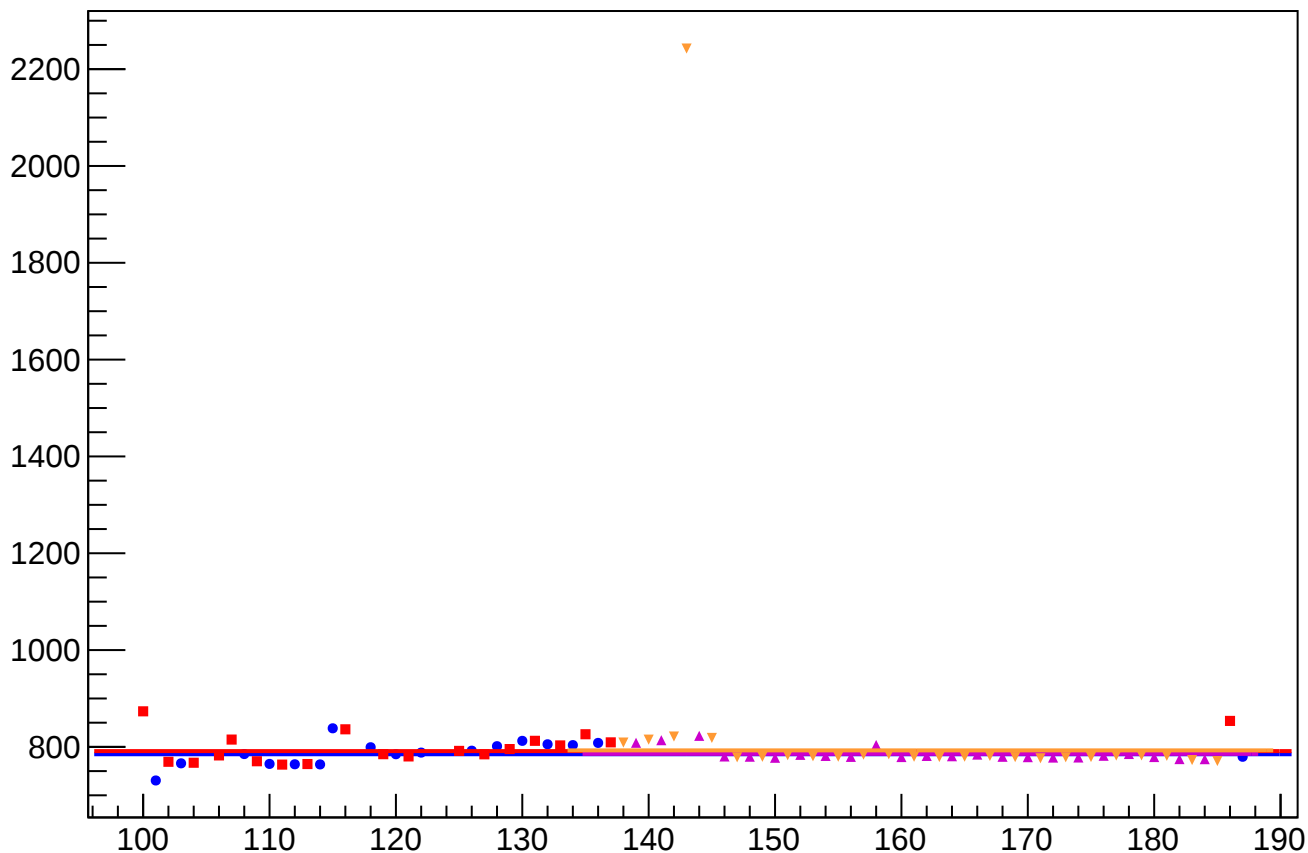
Right: -232.338 ± 209.762 χ^2/NDF : 24.1/35

In: -276.724 ± 159.469 χ^2/NDF : 35.8/39

Out: -216.042 ± 156.854 χ^2/NDF : 35.0/43

All: -245.881 ± 111.826 χ^2/NDF : 70.9/83

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: 791.314 $\pm$ 0.206 χ^2 /NDF: 15248.5/18

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

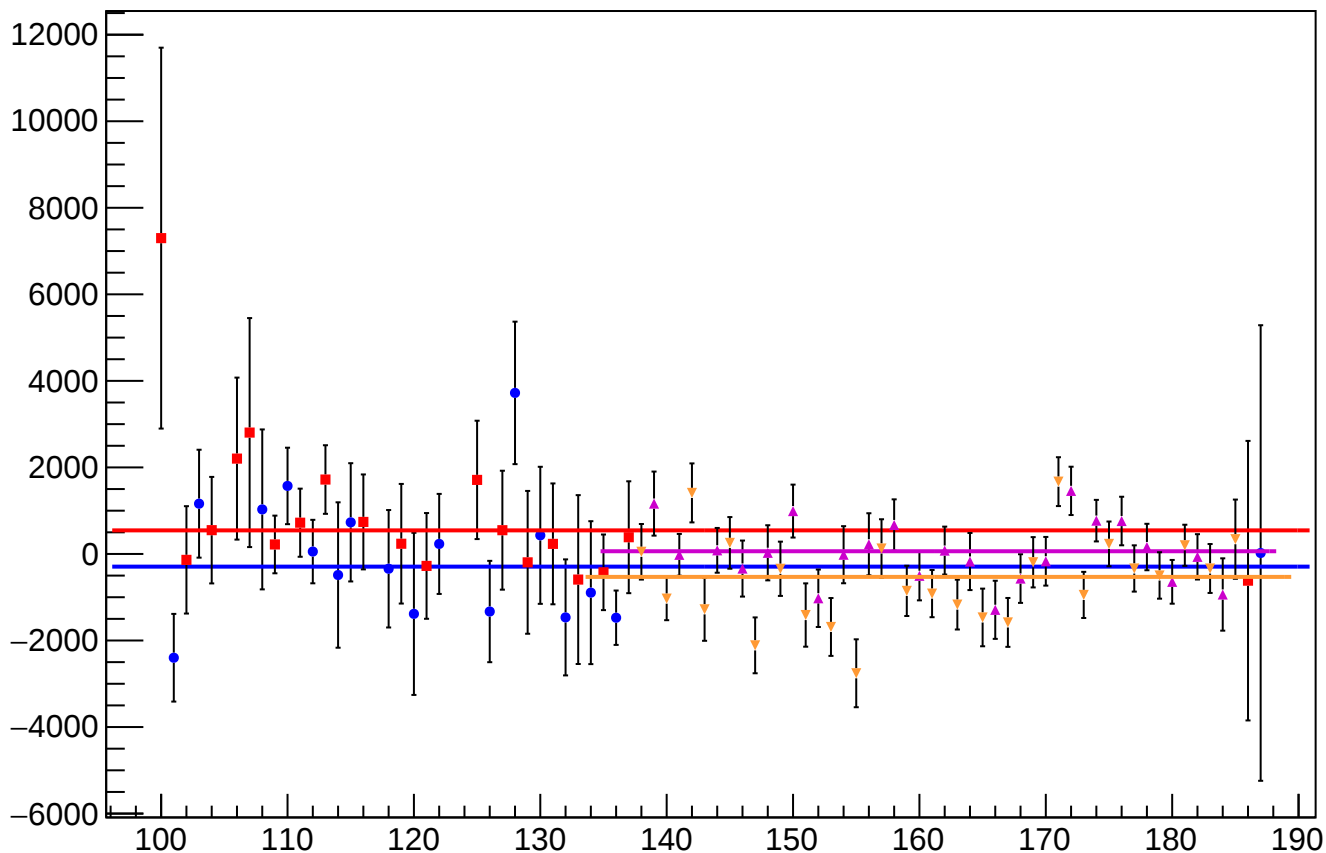
Right: 788.169 $\pm$ 0.148 χ^2 /NDF: 29558.3/35

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

Out: 792.364 $\pm$ 0.111 χ^2 /NDF: 674795.6/43

All: 788.926 $\pm$ 0.079 χ^2 /NDF: 699962.3/83

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: 544.884 ± 272.348 $\chi^2/\text{NDF}: 9.9/18$

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

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

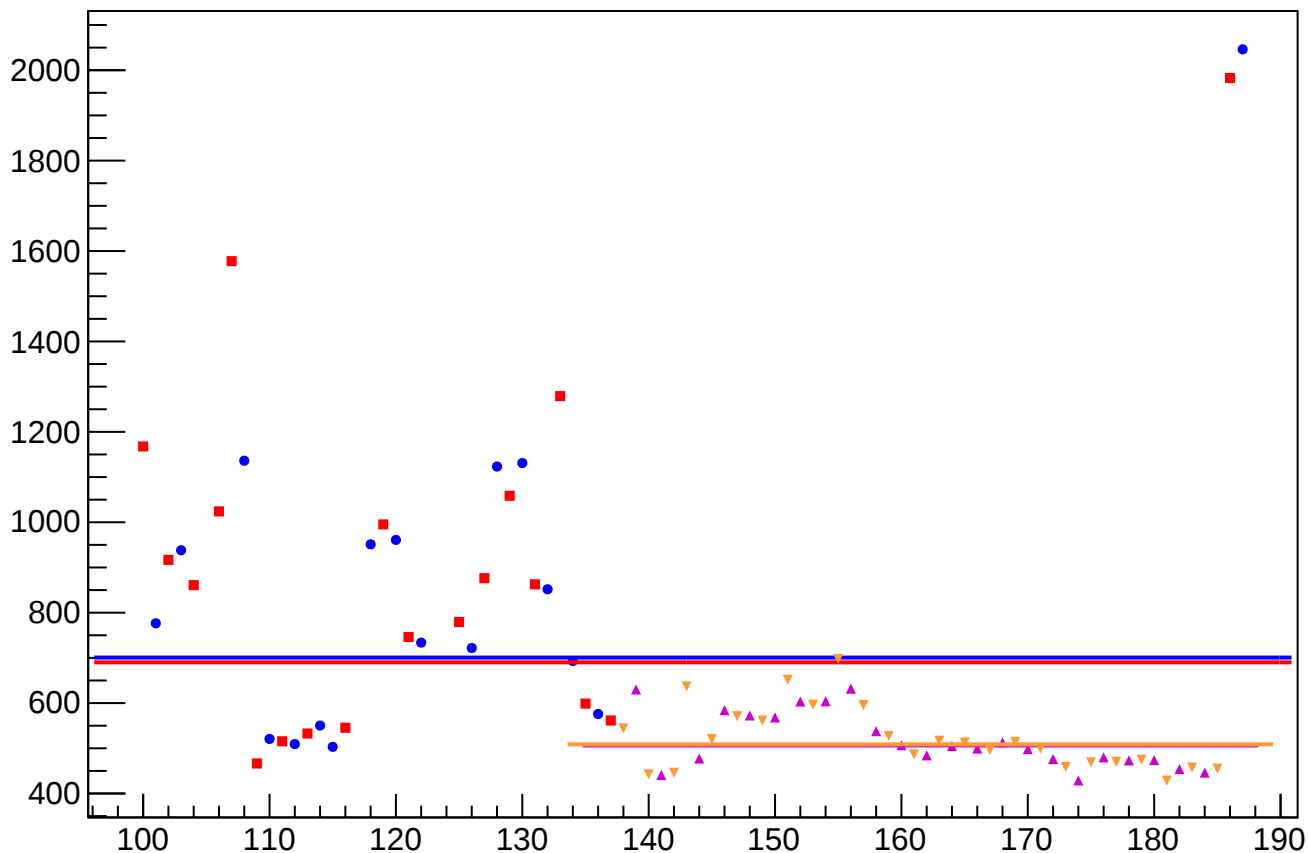
Right: 141.750 ± 196.164 $\chi^2/\text{NDF}: 37.8/35$

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

Out: -356.447 ± 109.462 $\chi^2/\text{NDF}: 84.6/43$

All: -179.012 ± 78.302 $\chi^2/\text{NDF}: 143.4/83$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 700.697+/-0.200 χ^2/NDF : 1094999.2/16

Left Out: 508.773+/-0.085 χ^2/NDF : 549245.1/24

Right Out: 690.139+/-0.193 χ^2/NDF : 1676217.4/18

Left In: 506.380+/-0.086 χ^2/NDF : 436294.4/22

Left: 507.601+/-0.060 χ^2/NDF : 985931.7/47

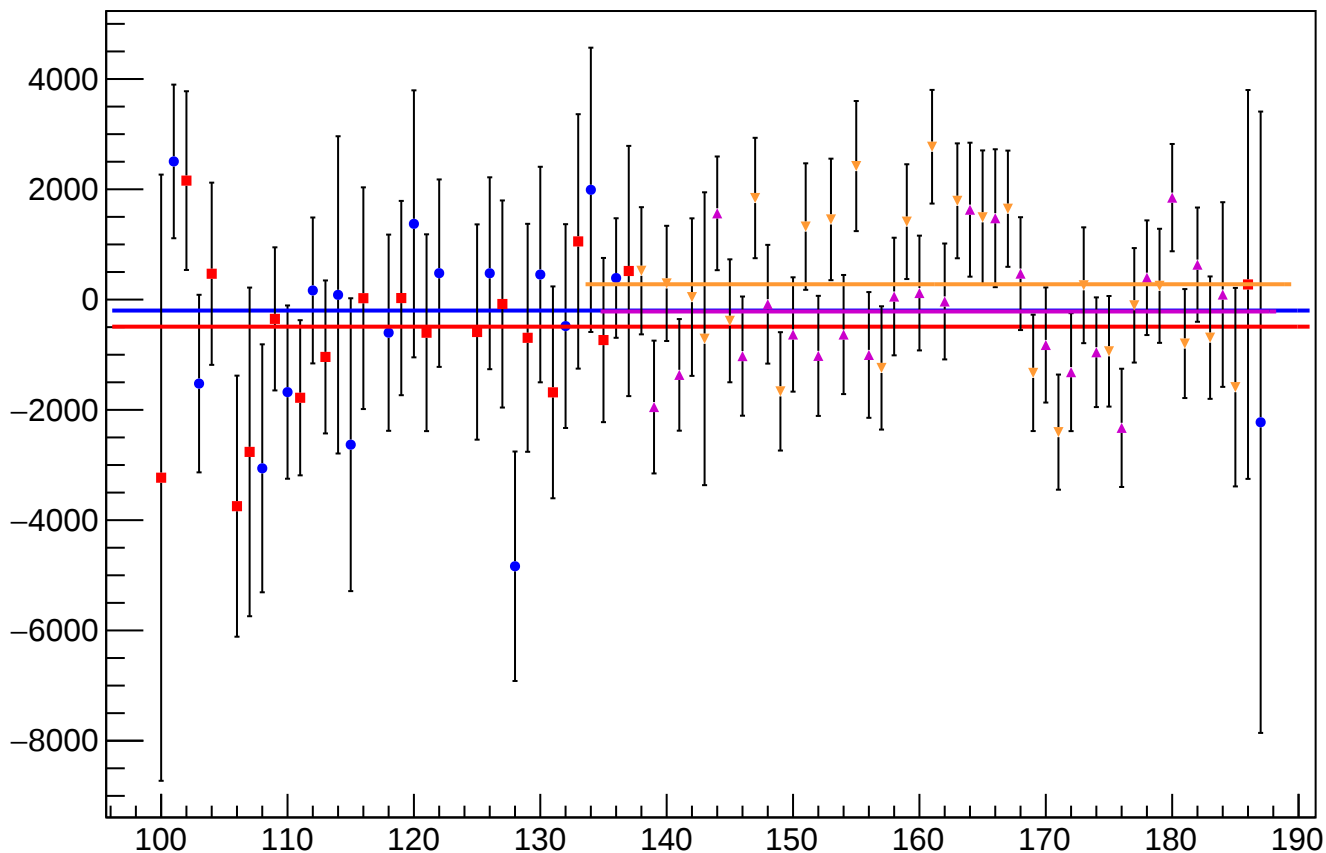
Right: 695.220+/-0.139 χ^2/NDF : 2772662.9/35

In: 536.892+/-0.079 χ^2/NDF : 2327394.5/39

Out: 538.071+/-0.077 χ^2/NDF : 2969129.1/43

All: 537.495+/-0.055 χ^2/NDF : 5296636.8/83

asym_us_dd_mean vs Slug, Sign Corrected



Right In: -198.869 $\pm$ 433.566 χ^2/NDF : 14.9/16

Left Out: 278.090 $\pm$ 223.581 χ^2/NDF : 38.4/24

Right Out: -491.039 $\pm$ 424.923 χ^2/NDF : 8.1/18

Left In: -216.121 $\pm$ 225.600 χ^2/NDF : 24.4/22

Left: 33.207 $\pm$ 158.805 χ^2/NDF : 65.2/47

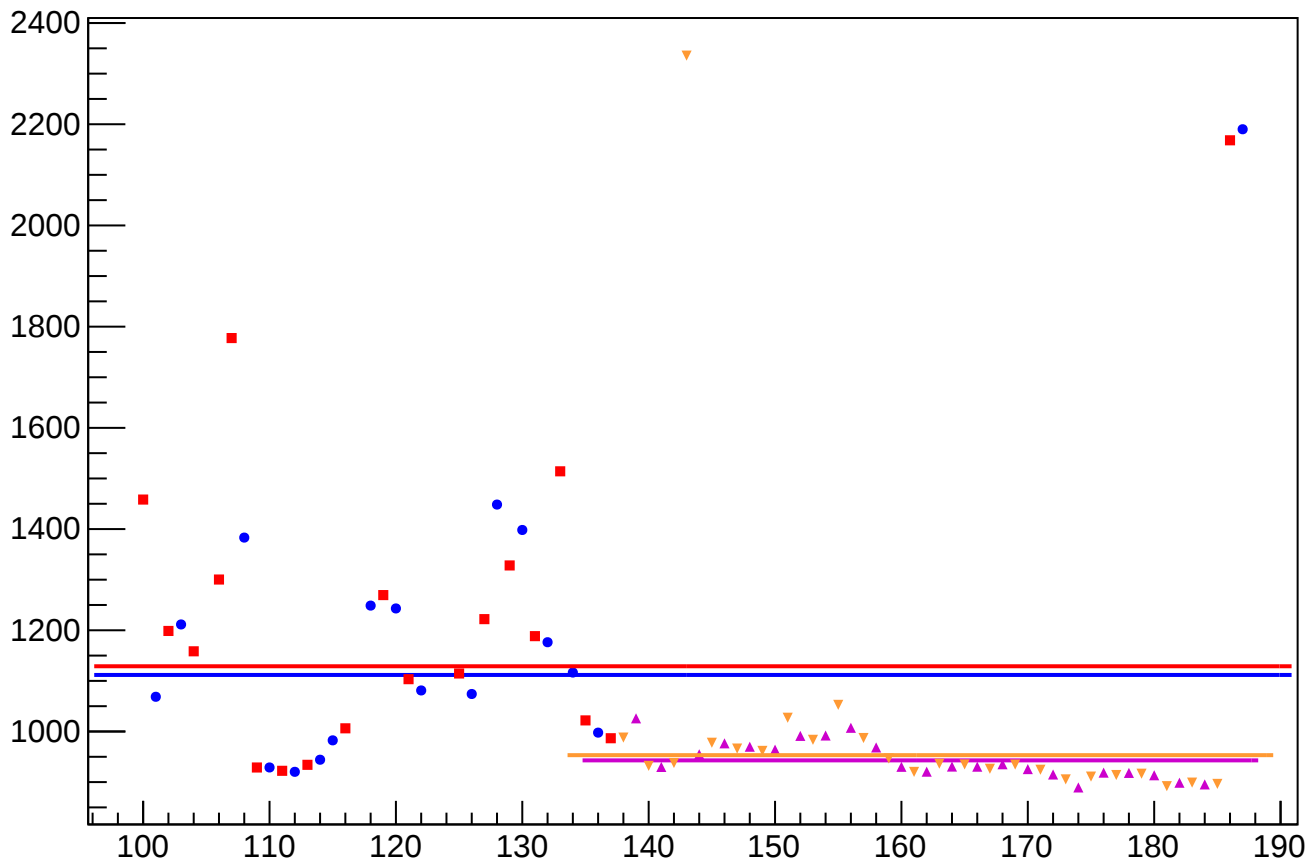
Right: -347.895 $\pm$ 303.475 χ^2/NDF : 23.2/35

In: -212.445 $\pm$ 200.129 χ^2/NDF : 39.3/39

Out: 111.325 $\pm$ 197.863 χ^2/NDF : 49.0/43

All: -48.717 $\pm$ 140.704 χ^2/NDF : 89.7/83

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: 1128.903 $\pm$ 0.300 χ^2 /NDF: 540681.4/18

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

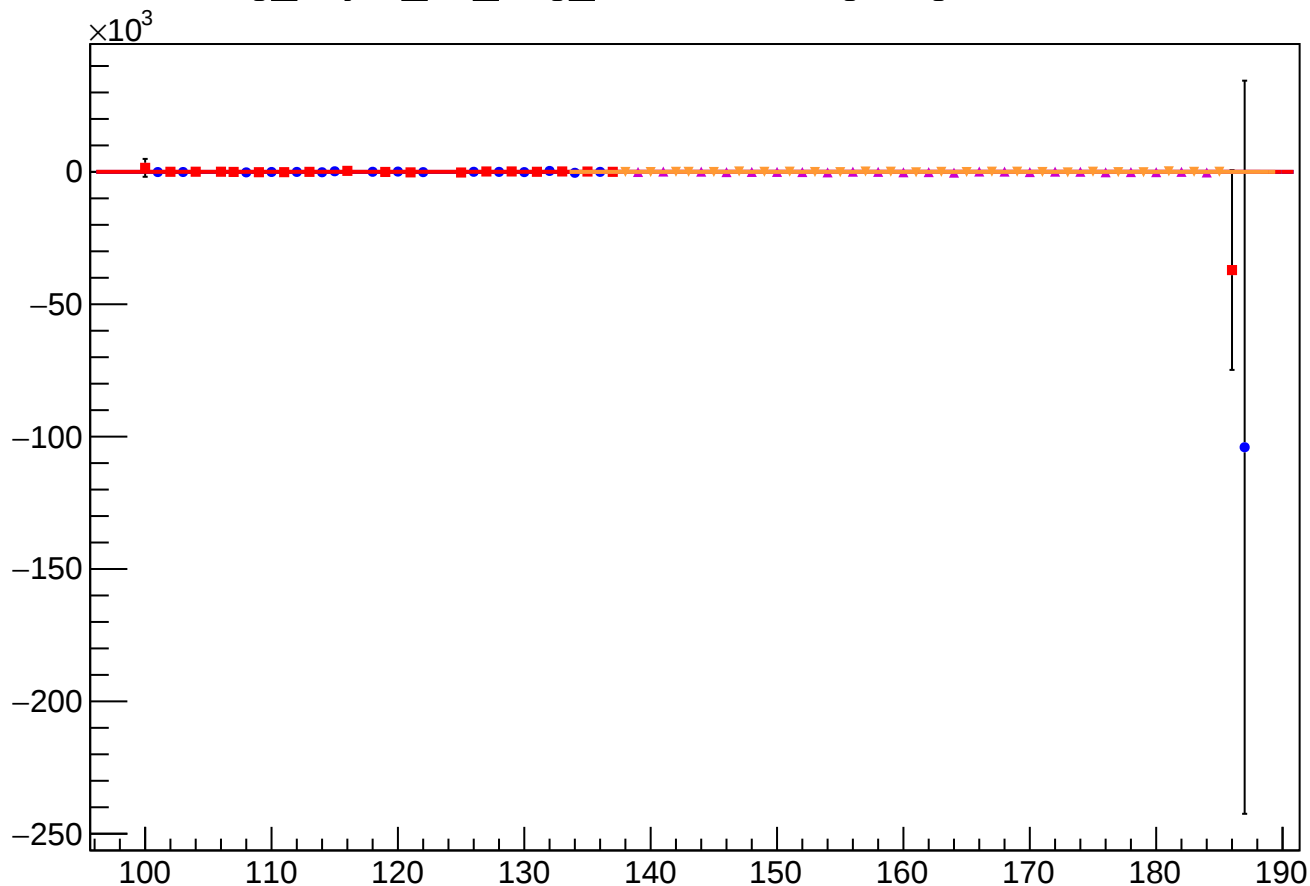
Right: 1120.493 $\pm$ 0.215 χ^2 /NDF: 874040.1/35

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

Out: 991.313 $\pm$ 0.140 χ^2 /NDF: 1414702.0/43

All: 985.174 $\pm$ 0.099 χ^2 /NDF: 2037353.0/83

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: 31.730+/-30.492 χ^2 /NDF: 17.8/18

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

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

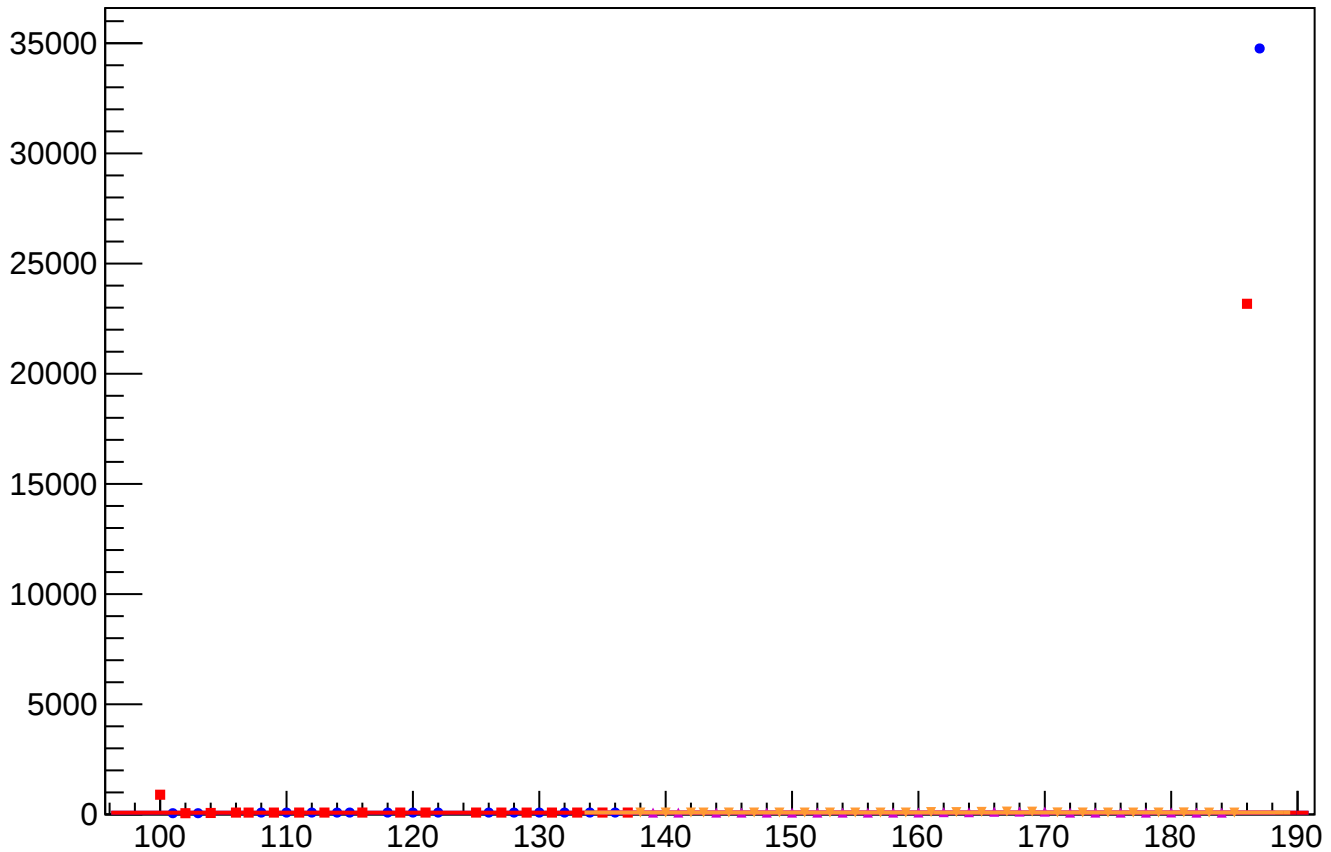
Right: 7.728+/-21.397 χ^2 /NDF: 35.5/35

In: -20.419+/-17.527 χ^2 /NDF:39.1/39

Out: 13.276+/-17.272 χ^2 /NDF:40.8/43

All: -3.325+/-12.302 χ^2 /NDF: 81.7/83

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.055 $\pm$ 0.021 χ^2 /NDF: 540635.7/16

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

Right Out: 79.386 $\pm$ 0.022 χ^2 /NDF: 1128481.1/18

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

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

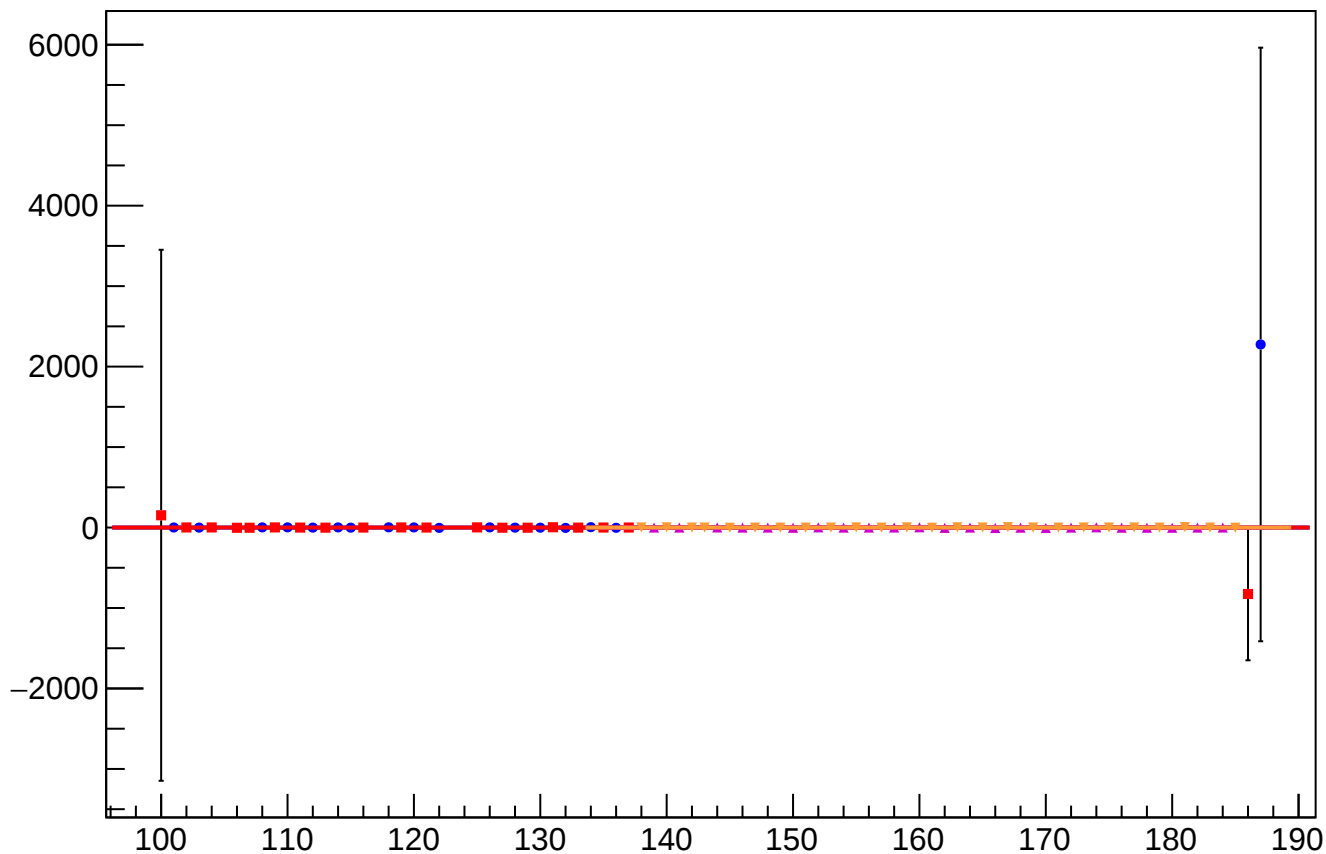
Right: 77.695 $\pm$ 0.015 χ^2 /NDF: 1681231.2/35

In: 84.984 $\pm$ 0.012 χ^2 /NDF: 1317230.1/39

Out: 86.243 $\pm$ 0.012 χ^2 /NDF: 1747757.8/43

All: 85.623 $\pm$ 0.009 χ^2 /NDF: 3070228.9/83

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 21.3/16

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

Right Out: 0.038 ± 0.525 χ^2/NDF : 10.9/18

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

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

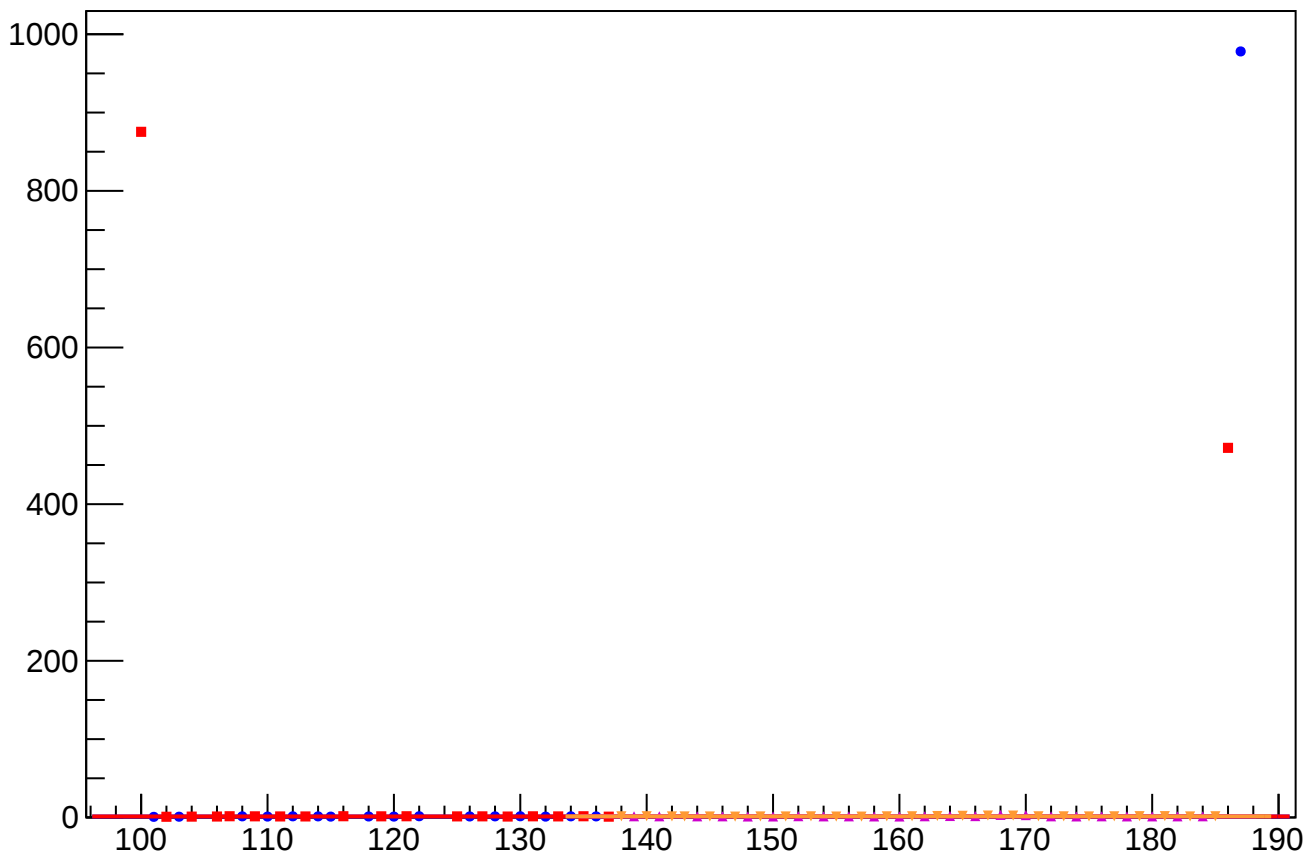
Right: -0.133 ± 0.363 χ^2/NDF : 32.4/35

In: -0.433 ± 0.306 χ^2/NDF : 47.8/39

Out: 0.102 ± 0.301 χ^2/NDF : 32.3/43

All: -0.161 ± 0.215 χ^2/NDF : 81.6/83

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 : 1141868.2/18

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

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

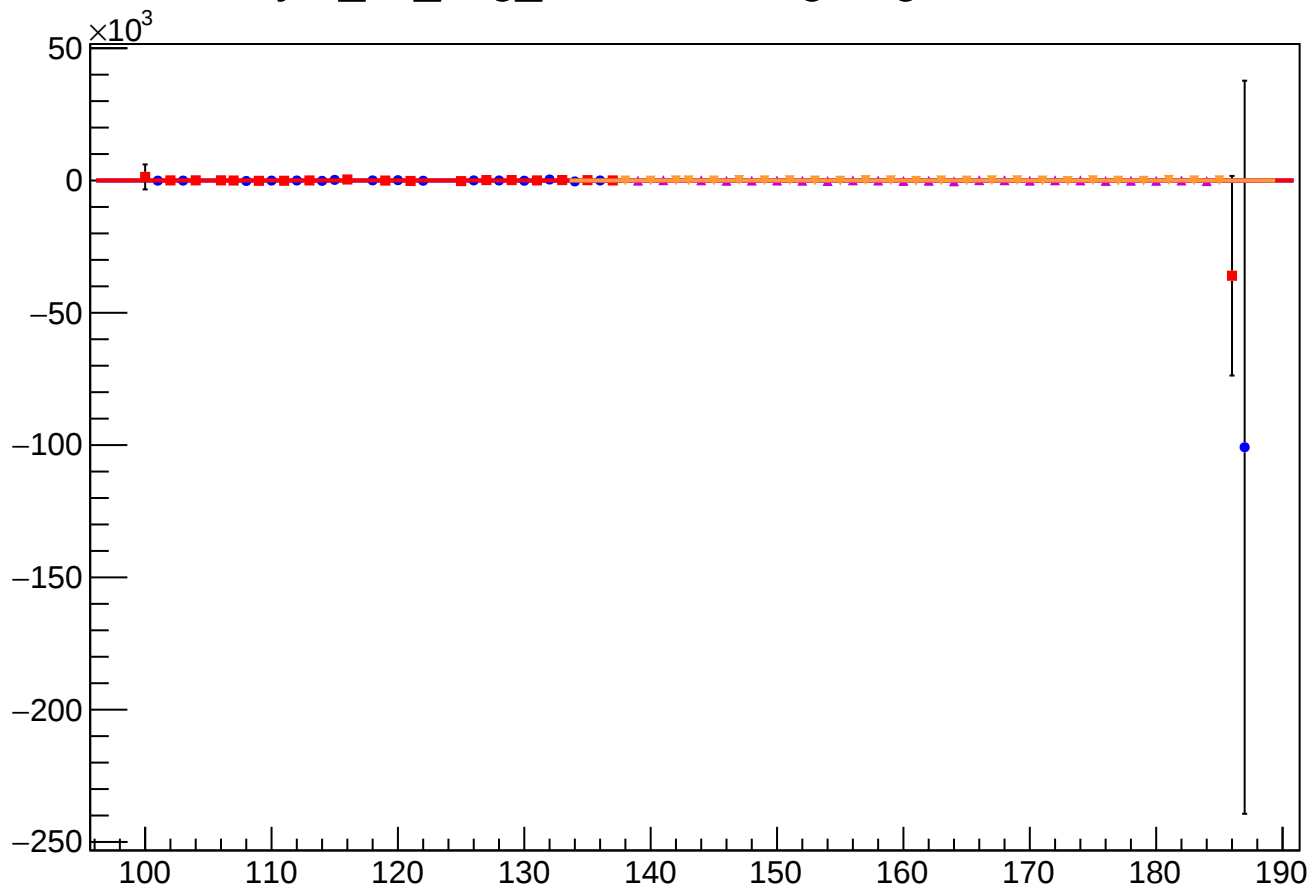
Right: 1.203+/-0.000 χ^2/NDF : 1831923.3/35

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

Out: 1.357+/-0.000 χ^2/NDF : 2236678.7/43

All: 1.349+/-0.000 χ^2/NDF : 4333436.9/83

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.492 $\pm$ 30.040 χ^2 /NDF: 16.8/16

Left Out: 4.417 $\pm$ 20.966 χ^2 /NDF:22.1/24

Right Out: 32.009 $\pm$ 30.500 χ^2 /NDF: 17.7/18

Left In: -22.446 $\pm$ 21.591 χ^2 /NDF:22.3/22

Left: -8.619 $\pm$ 15.041 χ^2 /NDF: 45.3/47

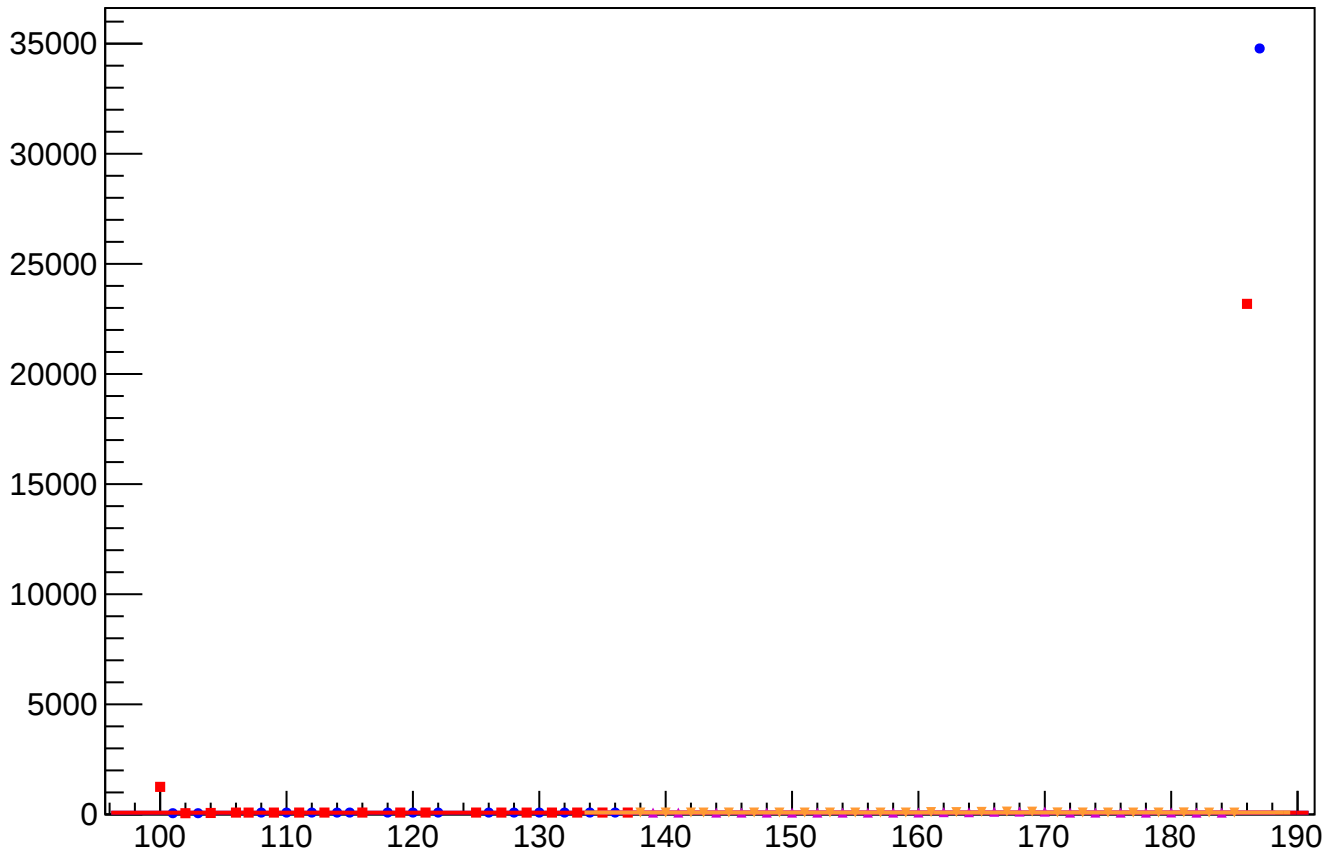
Right: 8.405 $\pm$ 21.402 χ^2 /NDF: 35.6/35

In: -19.736 $\pm$ 17.532 χ^2 /NDF:39.1/39

Out: 13.271 $\pm$ 17.277 χ^2 /NDF:40.4/43

All: -2.991 $\pm$ 12.306 χ^2 /NDF: 81.3/83

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: 79.389+/-0.022 χ^2/NDF : 1135008.7/18

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

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

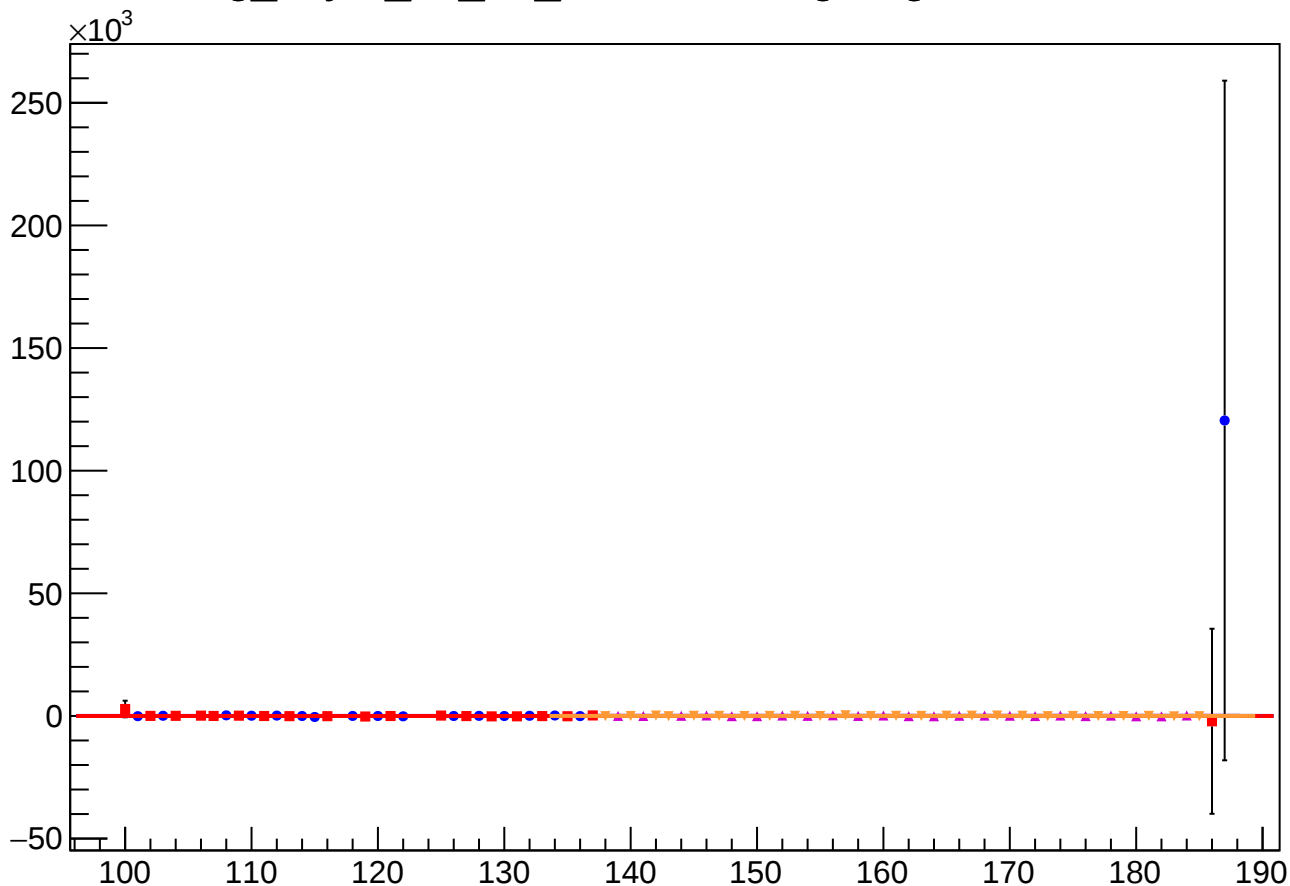
Right: 77.707+/-0.015 χ^2/NDF : 1687665.0/35

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

Out: 86.262+/-0.012 χ^2/NDF : 1755631.7/43

All: 85.644+/-0.009 χ^2/NDF : 3079092.7/83

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: -25.776 ± 30.473 $\chi^2/\text{NDF}: 12.8/18$

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

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

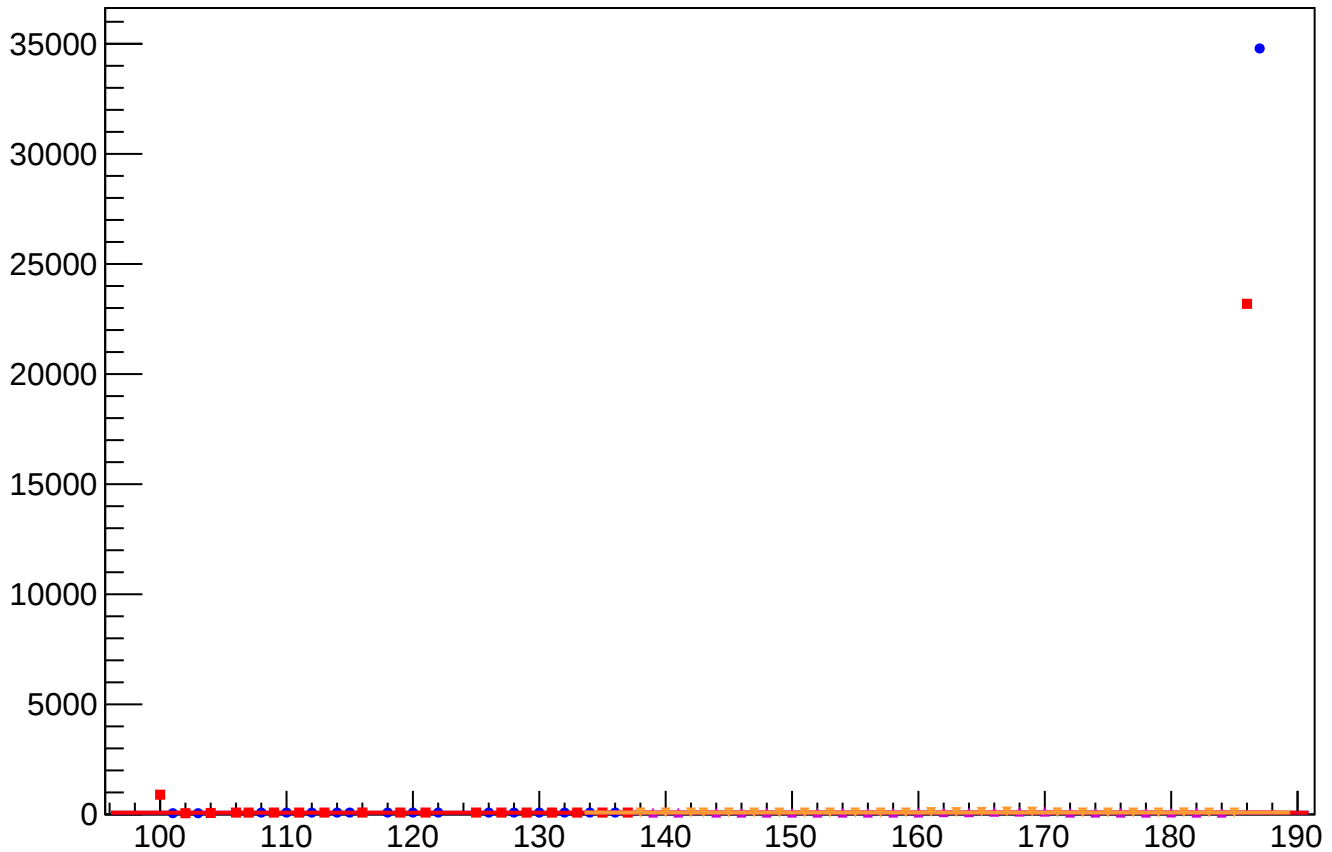
Right: -8.570 ± 21.383 $\chi^2/\text{NDF}: 28.2/35$

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

Out: -1.576 ± 17.272 $\chi^2/\text{NDF}: 32.2/43$

All: 14.660 ± 12.303 $\chi^2/\text{NDF}: 81.2/83$

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: 79.337 $\pm$ 0.022 χ^2 /NDF: 1128645.6/18

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

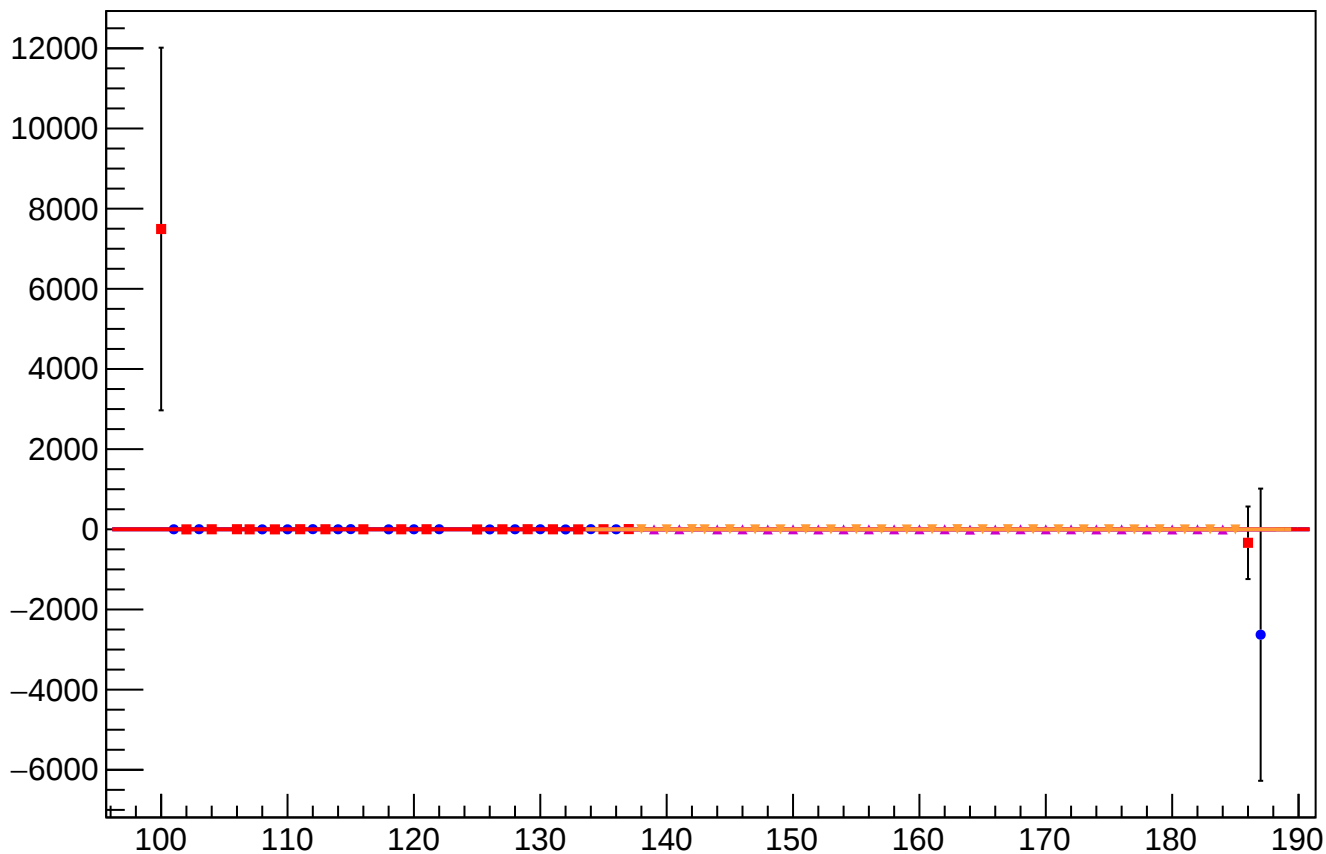
Right: 77.646 $\pm$ 0.015 χ^2 /NDF: 1681099.8/35

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

Out: 86.240 $\pm$ 0.012 χ^2 /NDF: 1748830.9/43

All: 85.620 $\pm$ 0.009 χ^2 /NDF: 3076903.7/83

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.531 χ^2 /NDF: 12.4/16

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

Right Out: 0.347 $\pm$ 0.549 χ^2 /NDF: 13.6/18

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

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

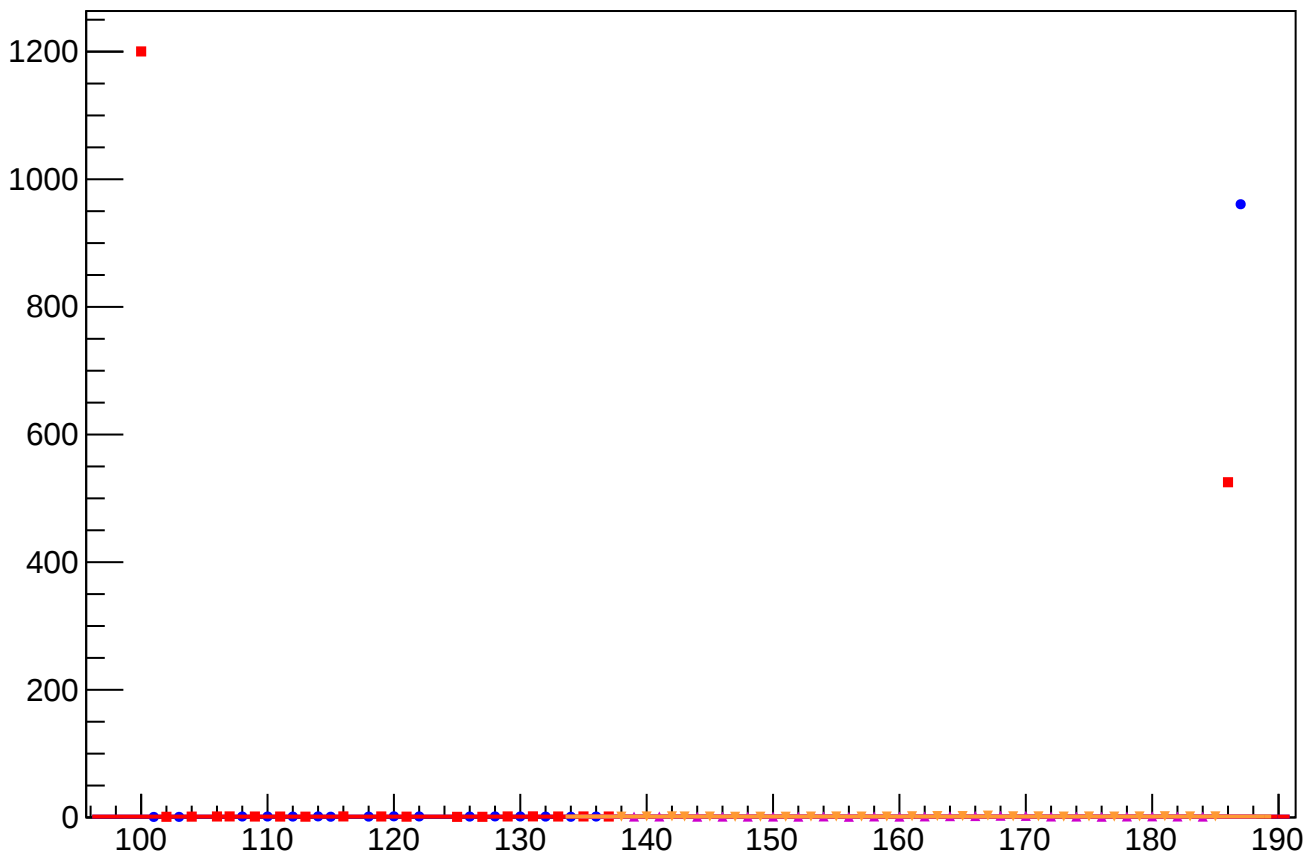
Right: 0.628 $\pm$ 0.382 χ^2 /NDF: 26.5/35

In: 0.266 $\pm$ 0.315 χ^2 /NDF: 35.0/39

Out: -0.235 $\pm$ 0.314 χ^2 /NDF: 36.0/43

All: 0.015 $\pm$ 0.222 χ^2 /NDF: 72.2/83

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: 1.315+/-0.000 χ^2/NDF : 1187365.3/18

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

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

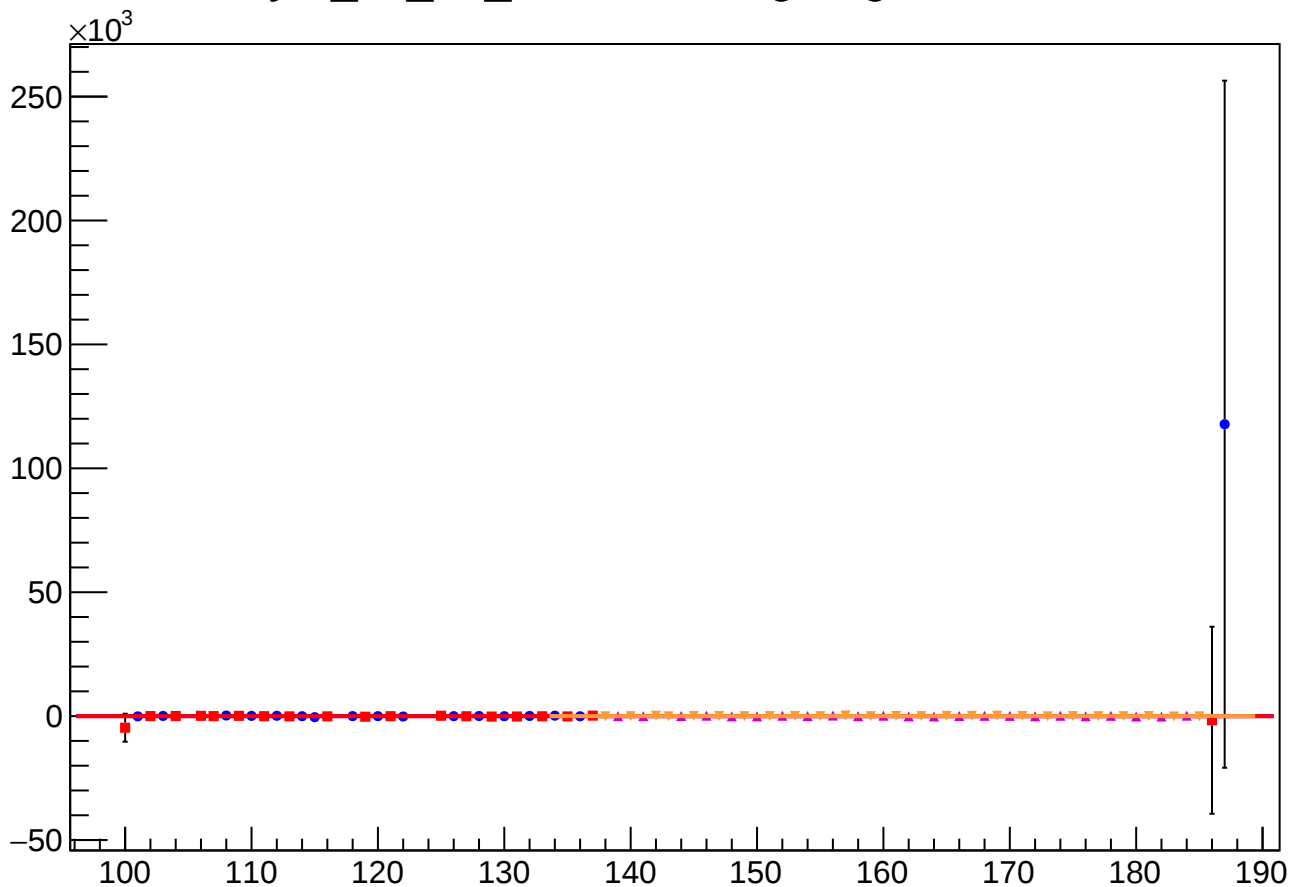
Right: 1.273+/-0.000 χ^2/NDF : 1975029.2/35

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

Out: 1.421+/-0.000 χ^2/NDF : 2453411.5/43

All: 1.401+/-0.000 χ^2/NDF : 4521634.3/83

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: -26.385 ± 30.482 $\chi^2/\text{NDF}: 13.0/18$

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

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

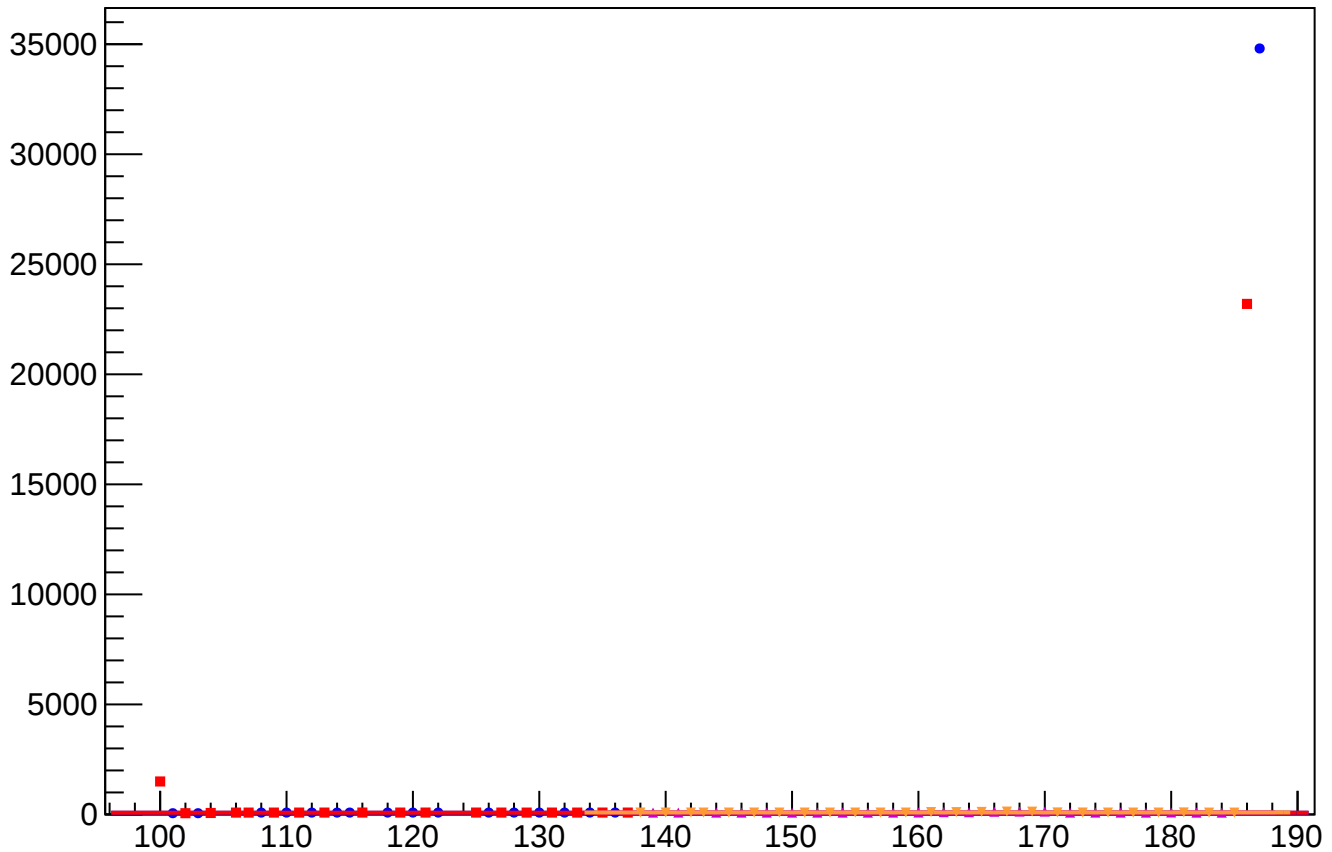
Right: -9.229 ± 21.389 $\chi^2/\text{NDF}: 28.2/35$

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

Out: -1.402 ± 17.277 $\chi^2/\text{NDF}: 32.4/43$

All: 14.786 ± 12.306 $\chi^2/\text{NDF}: 80.9/83$

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: 79.334 $\pm$ 0.022 χ^2 /NDF: 1137899.4/18

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

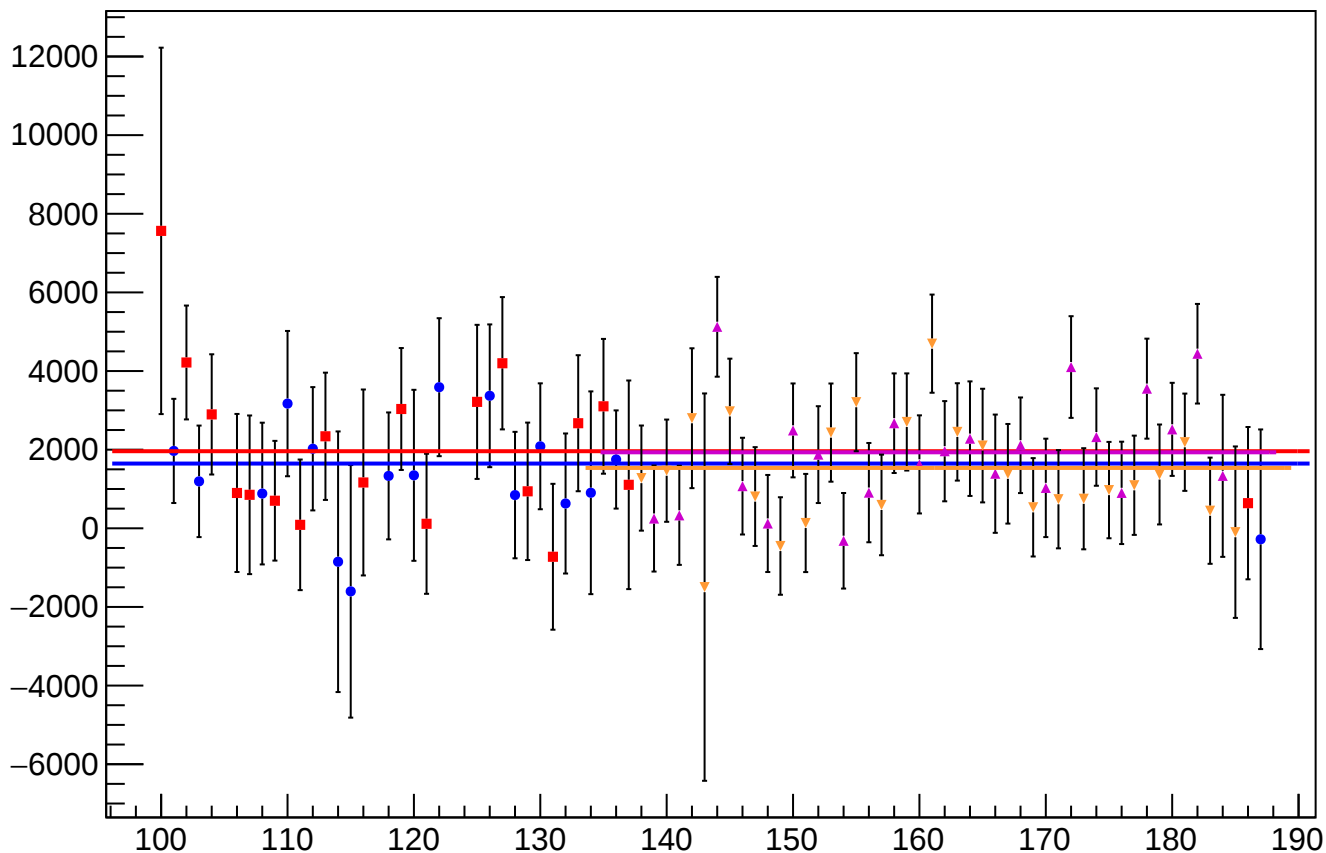
Right: 77.655 $\pm$ 0.015 χ^2 /NDF: 1690217.0/35

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

Out: 86.257 $\pm$ 0.012 χ^2 /NDF: 1759660.0/43

All: 85.641 $\pm$ 0.009 χ^2 /NDF: 3088617.6/83

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: 1961.051 $\pm$ 413.662 χ^2 /NDF: 14.3/18

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

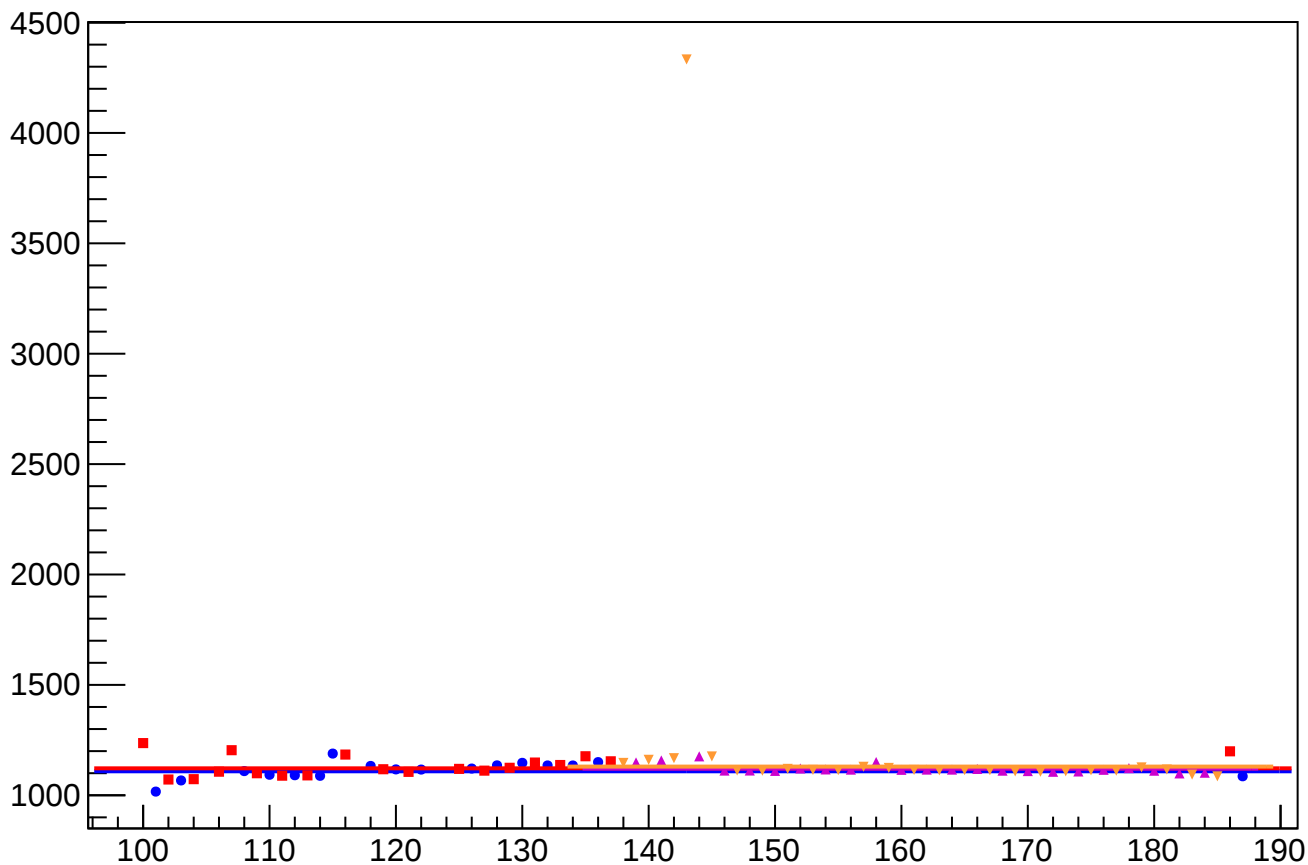
Right: 1808.745 $\pm$ 296.939 χ^2 /NDF: 20.7/35

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

Out: 1659.730 $\pm$ 223.665 χ^2 /NDF:35.4/43

All: 1754.470 $\pm$ 159.294 χ^2 /NDF: 69.2/83

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1108.664 $\pm$ 0.302 χ^2 /NDF: 18375.5/16

Left Out: 1129.901 $\pm$ 0.188 χ^2 /NDF: 858259.9/24

Right Out: 1122.034 $\pm$ 0.293 χ^2 /NDF: 18838.1/18

Left In: 1120.991 $\pm$ 0.190 χ^2 /NDF: 9641.8/22

Left: 1125.481 $\pm$ 0.133 χ^2 /NDF: 869015.8/47

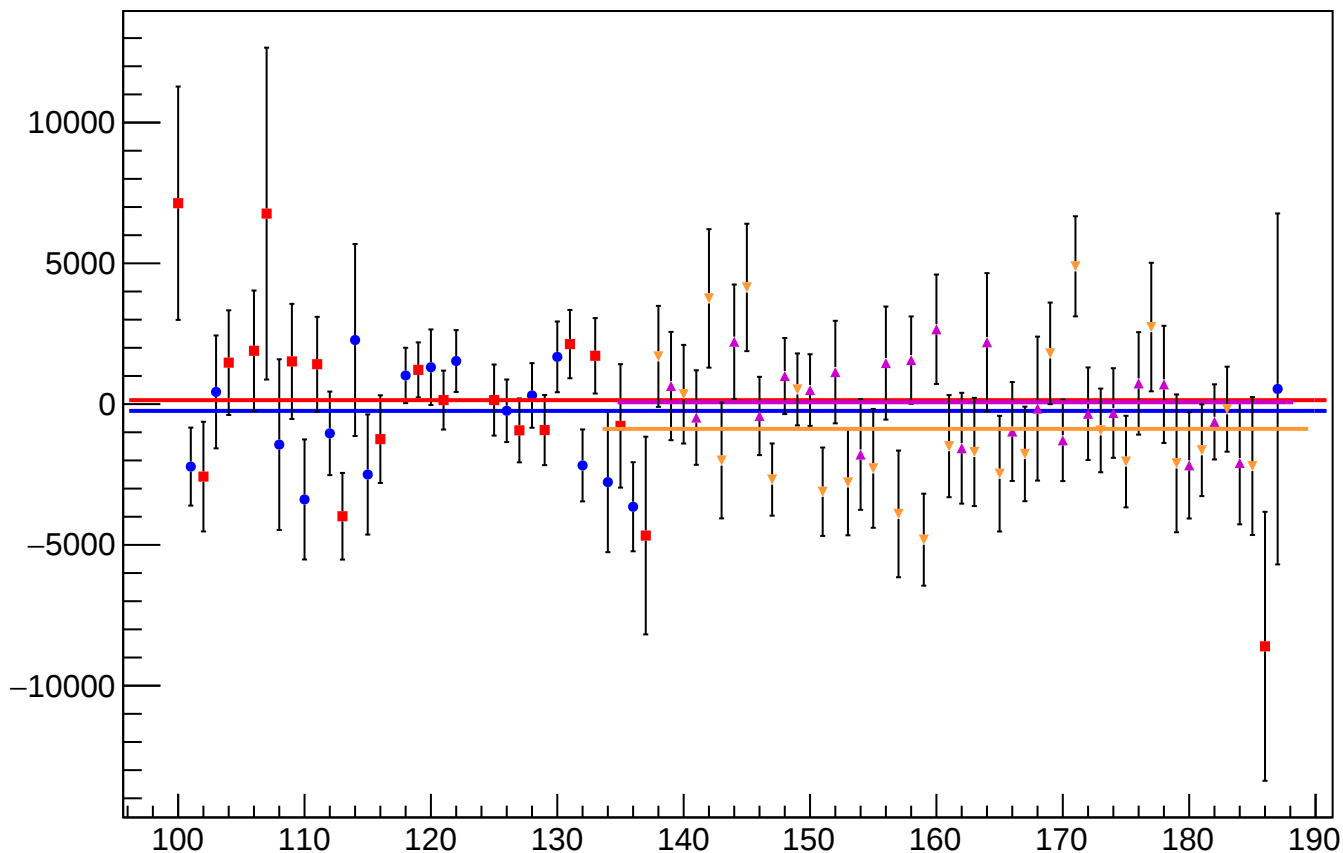
Right: 1115.554 $\pm$ 0.210 χ^2 /NDF: 38226.4/35

In: 1117.501 $\pm$ 0.160 χ^2 /NDF: 29215.0/39

Out: 1127.601 $\pm$ 0.158 χ^2 /NDF: 877609.9/43

All: 1122.624 $\pm$ 0.113 χ^2 /NDF: 908834.5/83

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -240.362 $\pm$ 360.880 χ^2/NDF : 22.6/16

Left Out: -879.685 $\pm$ 355.692 χ^2/NDF : 43.5/24

Right Out: 140.819 $\pm$ 356.557 χ^2/NDF : 28.5/18

Left In: 65.738 $\pm$ 358.785 χ^2/NDF : 12.1/22

Left: -411.067 $\pm$ 252.599 χ^2/NDF : 59.2/47

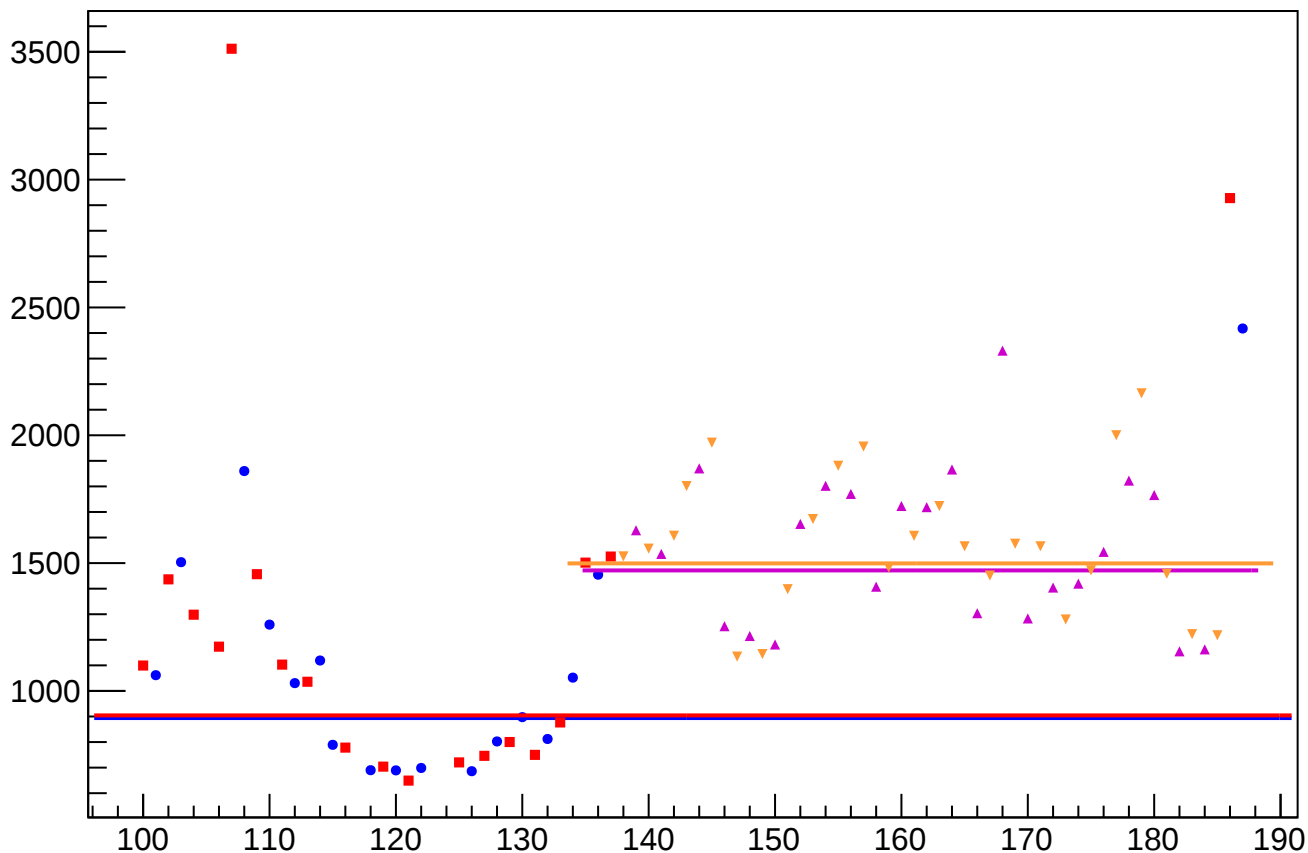
Right: -47.475 $\pm$ 253.639 χ^2/NDF : 51.7/35

In: -86.421 $\pm$ 254.437 χ^2/NDF : 35.1/39

Out: -370.673 $\pm$ 251.818 χ^2/NDF : 76.2/43

All: -230.018 $\pm$ 178.981 χ^2/NDF : 111.9/83

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: 904.315+/-0.252 χ^2/NDF : 1770141.0/18

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

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

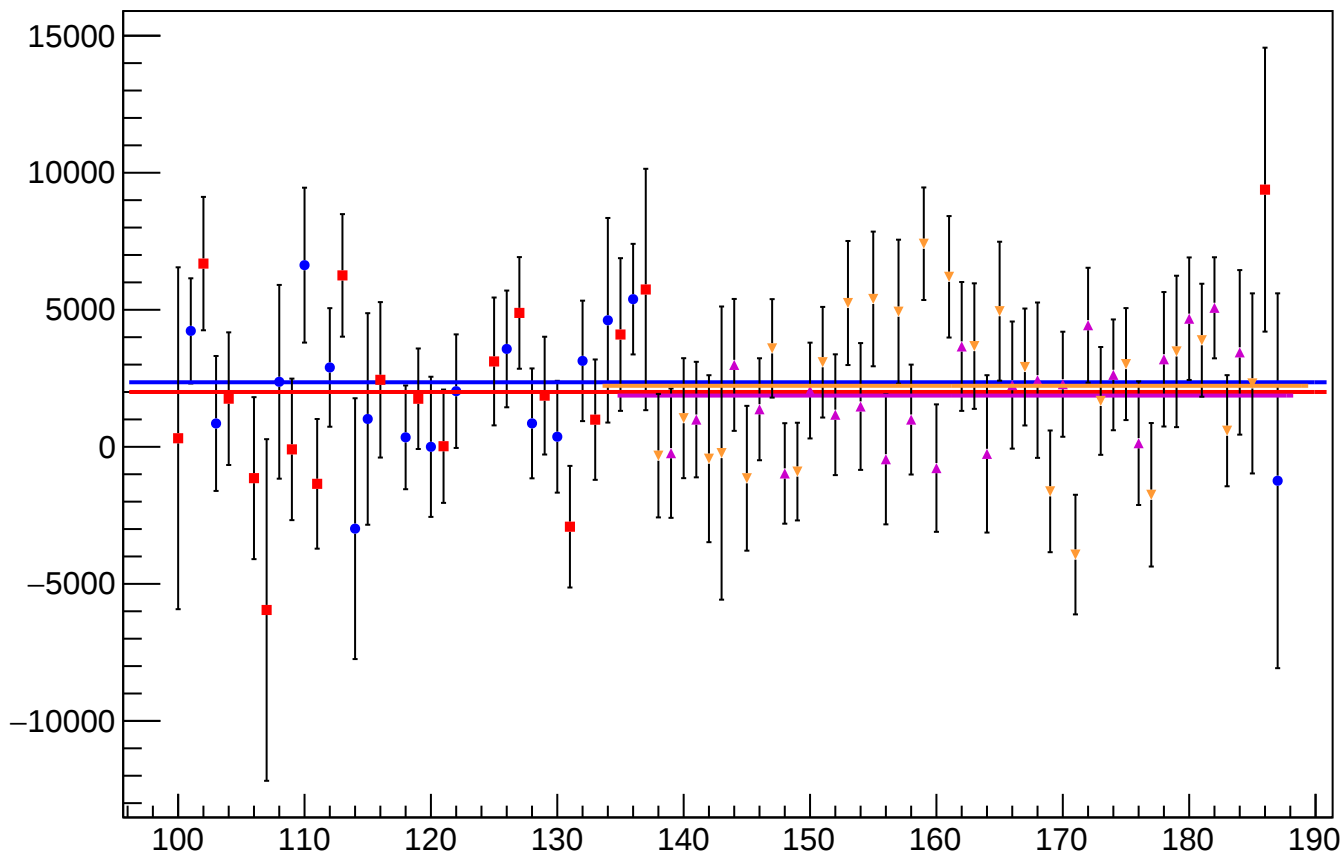
Right: 899.187+/-0.179 χ^2/NDF : 2943551.7/35

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

Out: 1202.304+/-0.178 χ^2/NDF : 5611121.2/43

All: 1193.417+/-0.127 χ^2/NDF : 10469402.6/86

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: 2001.013 $\pm$ 581.261 χ^2 /NDF: 24.5/18

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

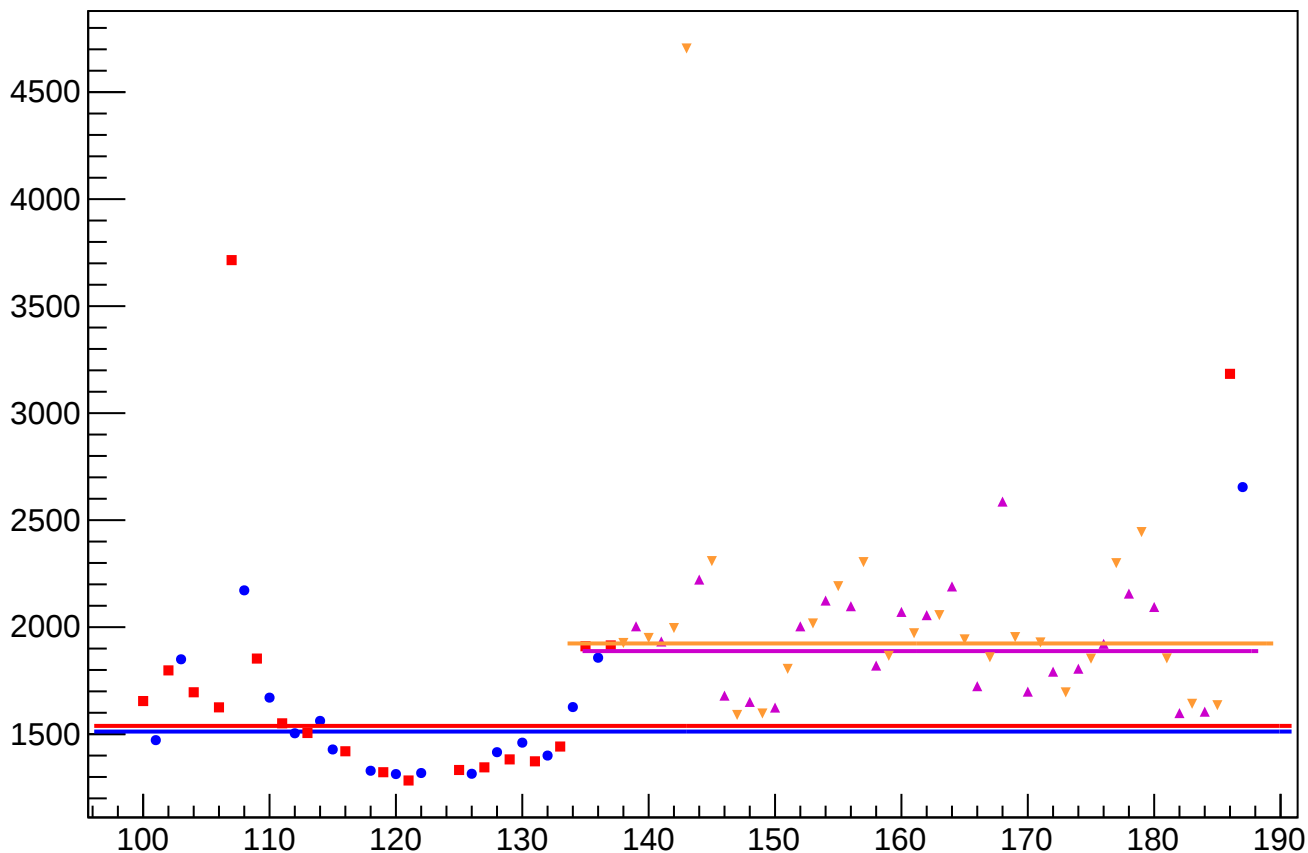
Right: 2176.269 $\pm$ 413.551 χ^2 /NDF: 36.6/35

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

Out: 2140.891 $\pm$ 358.197 χ^2 /NDF:63.4/43

All: 2096.640 $\pm$ 253.986 χ^2 /NDF: 90.6/83

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: 1538.670+/-0.411 χ^2/NDF : 680734.9/18

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

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

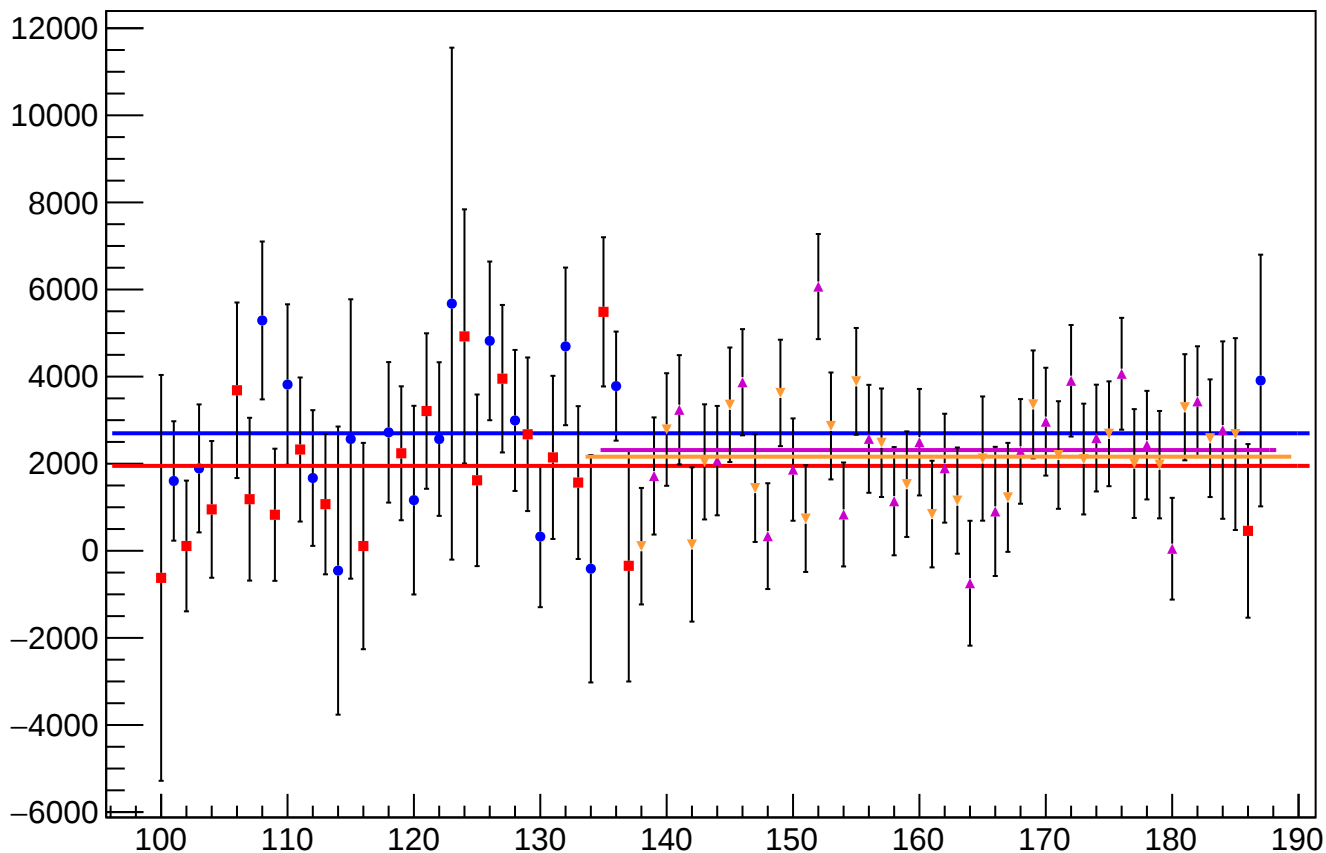
Right: 1525.599+/-0.292 χ^2/NDF : 991148.8/35

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

Out: 1777.566+/-0.253 χ^2/NDF : 2231565.8/43

All: 1762.518+/-0.180 χ^2/NDF : 3561962.7/83

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: 1949.911 $\pm$ 411.113 χ^2 /NDF: 13.4/19

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

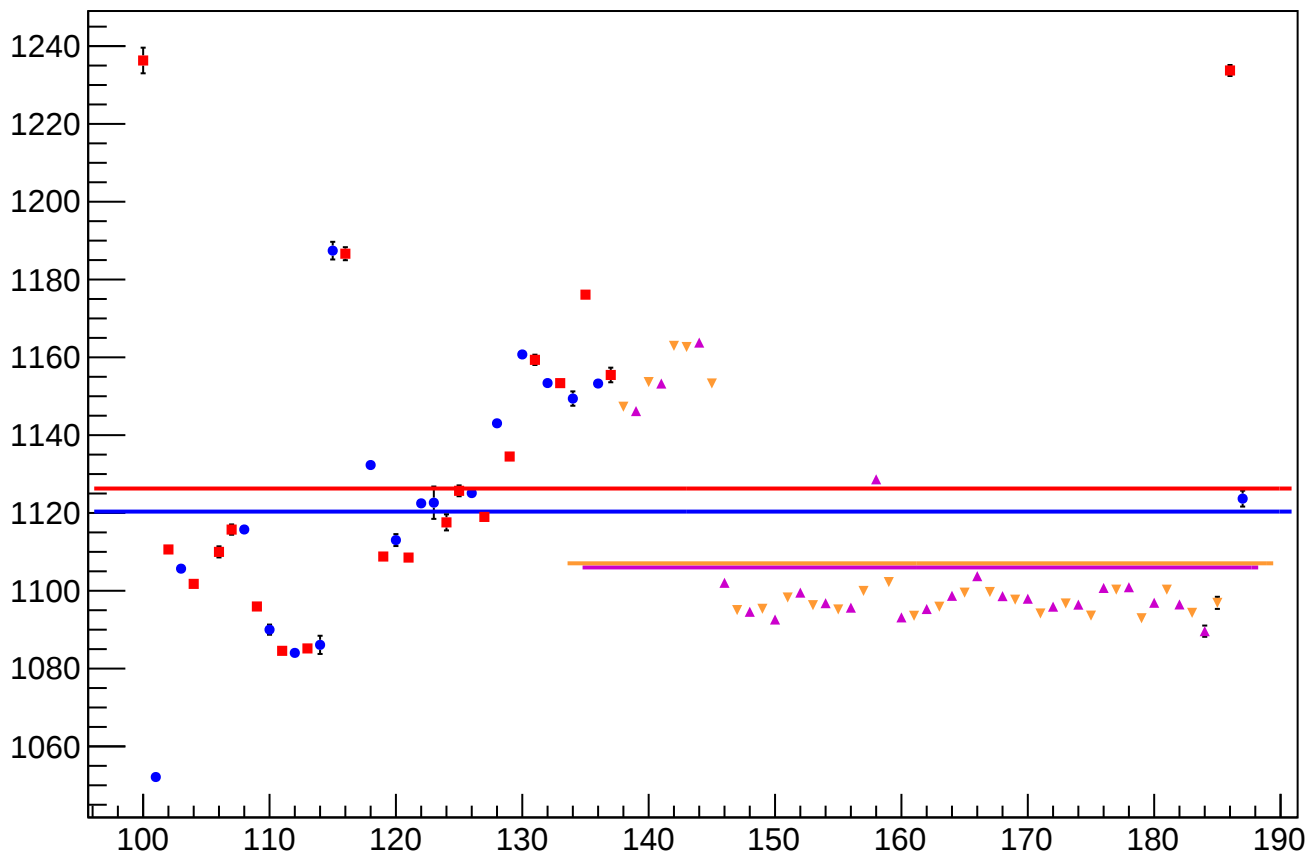
Right: 2307.727 $\pm$ 297.066 χ^2 /NDF: 27.6/37

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

Out: 2101.822 $\pm$ 218.238 χ^2 /NDF:28.7/44

All: 2255.569 $\pm$ 156.724 χ^2 /NDF: 74.1/85

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: 1126.282 $\pm$ 0.291 χ^2/NDF : 16085.6/19

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

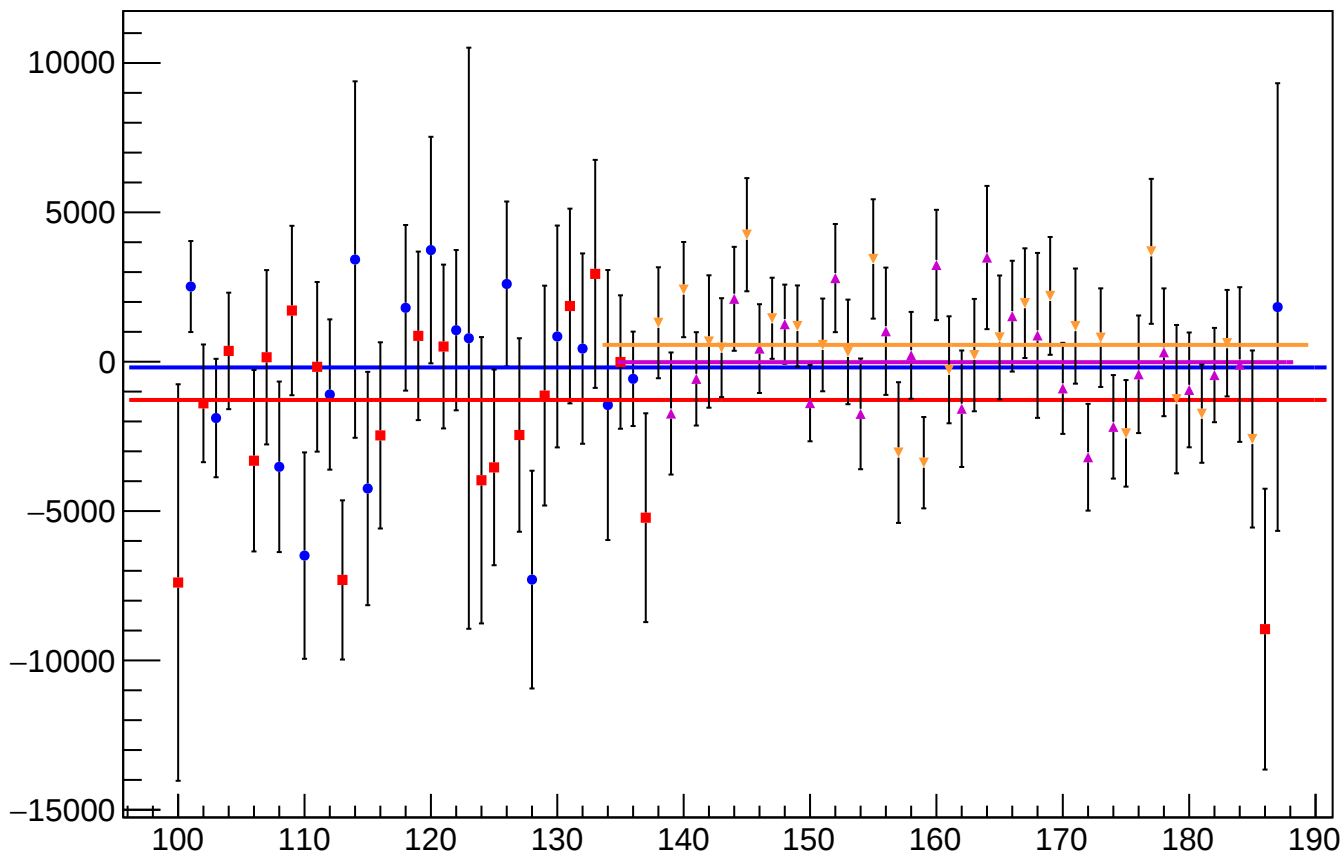
Right: 1123.448 $\pm$ 0.210 χ^2/NDF : 28249.8/37

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

Out: 1112.474 $\pm$ 0.154 χ^2/NDF :34402.3/44

All: 1111.247 $\pm$ 0.111 χ^2/NDF : 59668.8/85

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: -191.828 ± 654.125 $\chi^2/\text{NDF}: 17.1/17$

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

Right Out: -1280.334 ± 657.055 $\chi^2/\text{NDF}: 17.1/19$

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

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

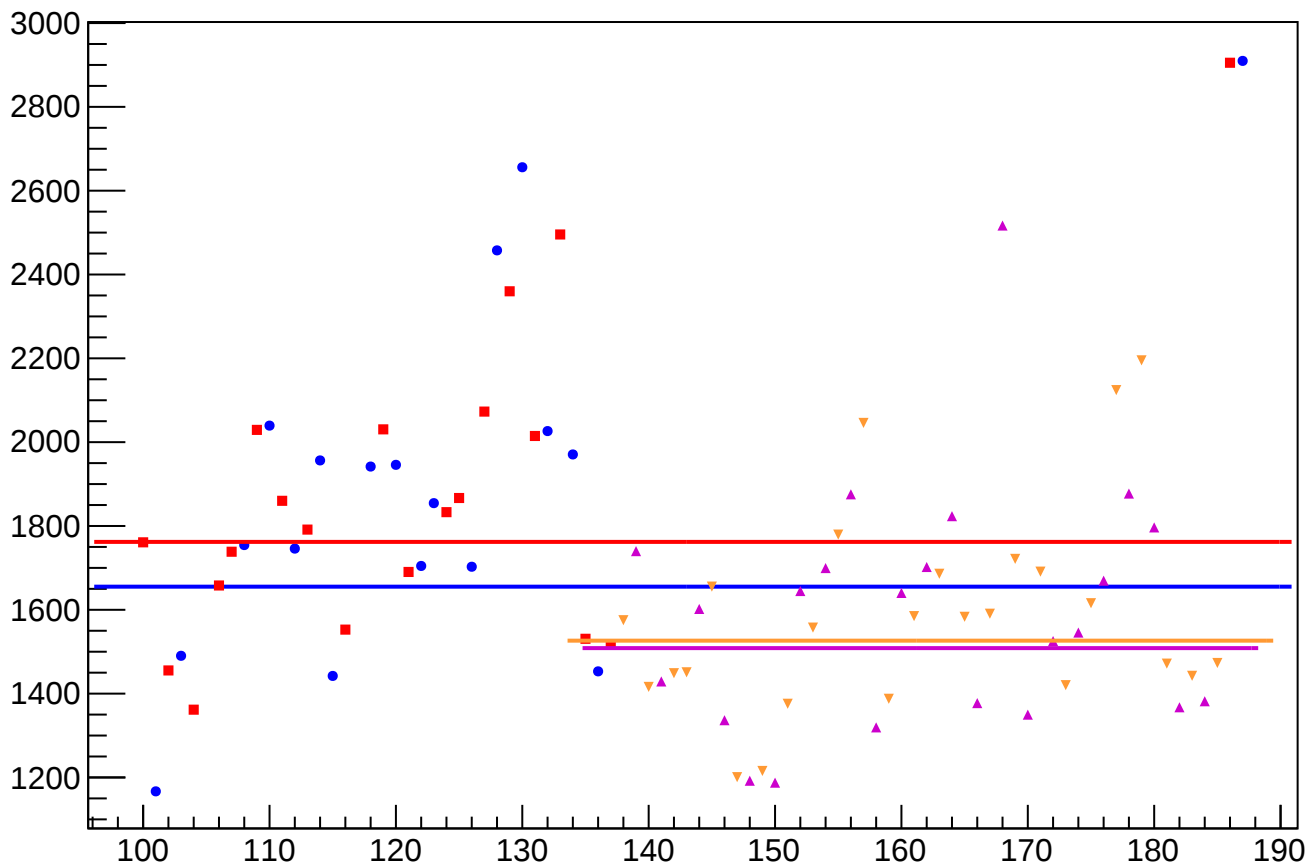
Right: -733.648 ± 463.569 $\chi^2/\text{NDF}: 35.6/37$

In: -57.706 ± 319.969 $\chi^2/\text{NDF}: 37.3/40$

Out: 135.982 ± 316.325 $\chi^2/\text{NDF}: 49.9/44$

All: 40.247 ± 224.953 $\chi^2/\text{NDF}: 87.4/85$

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: 1762.034 $\pm$ 0.465 χ^2 /NDF: 493223.5/19

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

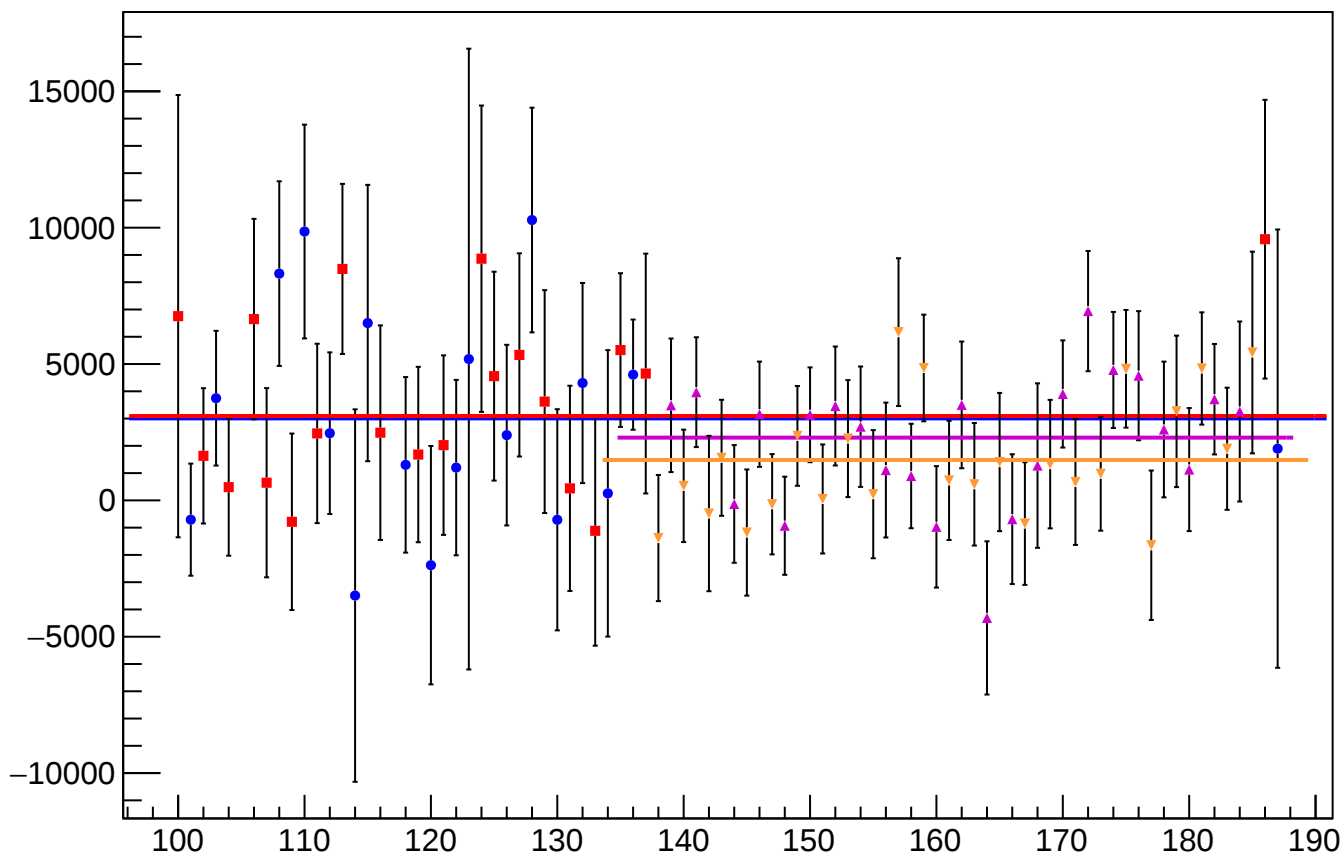
Right: 1708.385 $\pm$ 0.328 χ^2 /NDF: 1182957.7/37

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

Out: 1581.007 $\pm$ 0.224 χ^2 /NDF: 1444555.1/44

All: 1562.550 $\pm$ 0.159 χ^2 /NDF: 3129652.3/85

asym_usr_mean vs Slug, Sign Corrected



Right In: 3007.383+/-800.020 χ^2/NDF : 17.5/17

Left Out: 1482.365+/-449.983 χ^2/NDF : 20.9/24

Right Out: 3094.276+/-787.629 χ^2/NDF : 13.4/19

Left In: 2301.247+/-459.040 χ^2/NDF : 24.8/22

Left: 1883.648+/-321.340 χ^2/NDF : 47.4/47

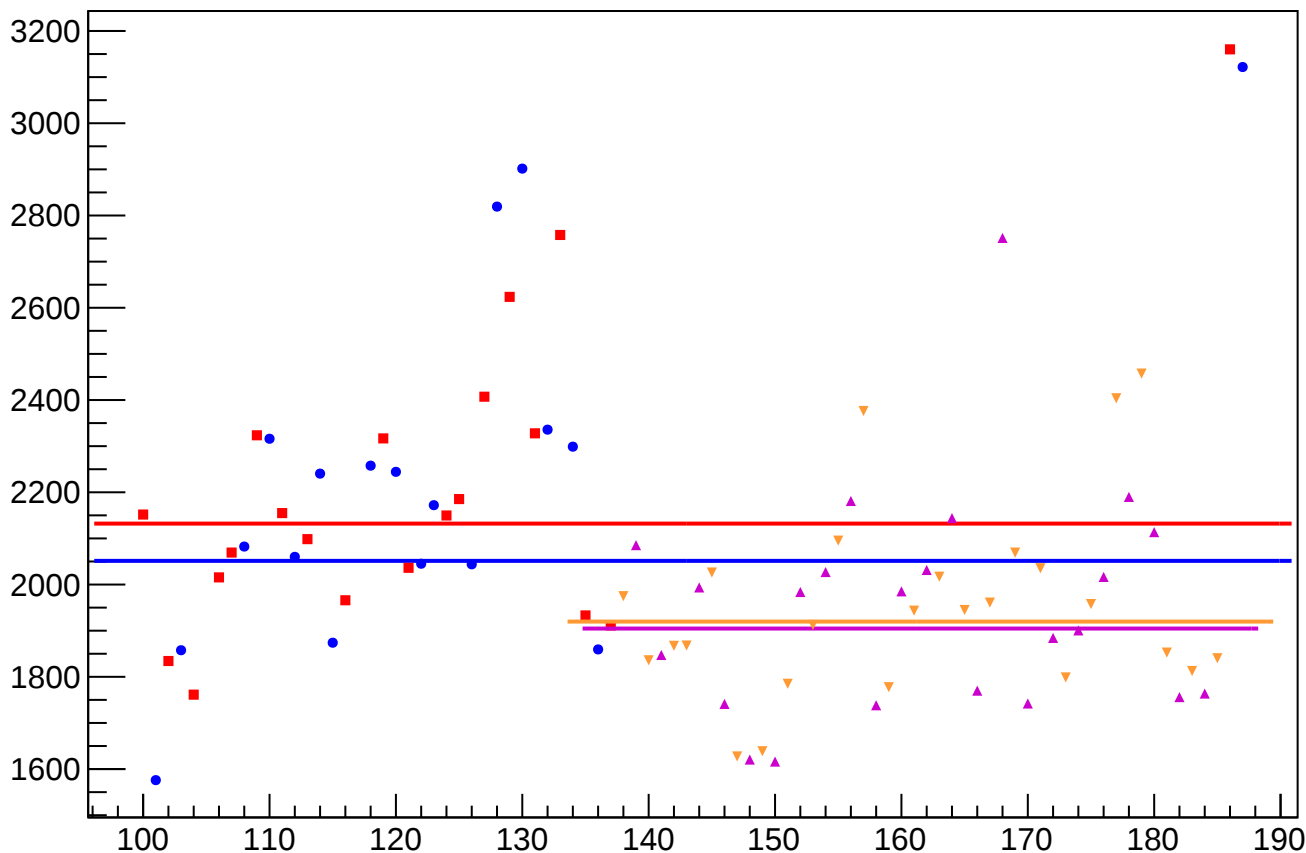
Right: 3051.508+/-561.267 χ^2/NDF : 30.9/37

In: 2476.146+/-398.153 χ^2/NDF : 42.9/40

Out: 1879.023+/-390.714 χ^2/NDF : 37.5/44

All: 2171.954+/-278.870 χ^2/NDF : 81.5/85

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: 2132.130+/-0.557 χ^2/NDF : 279900.5/19

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

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

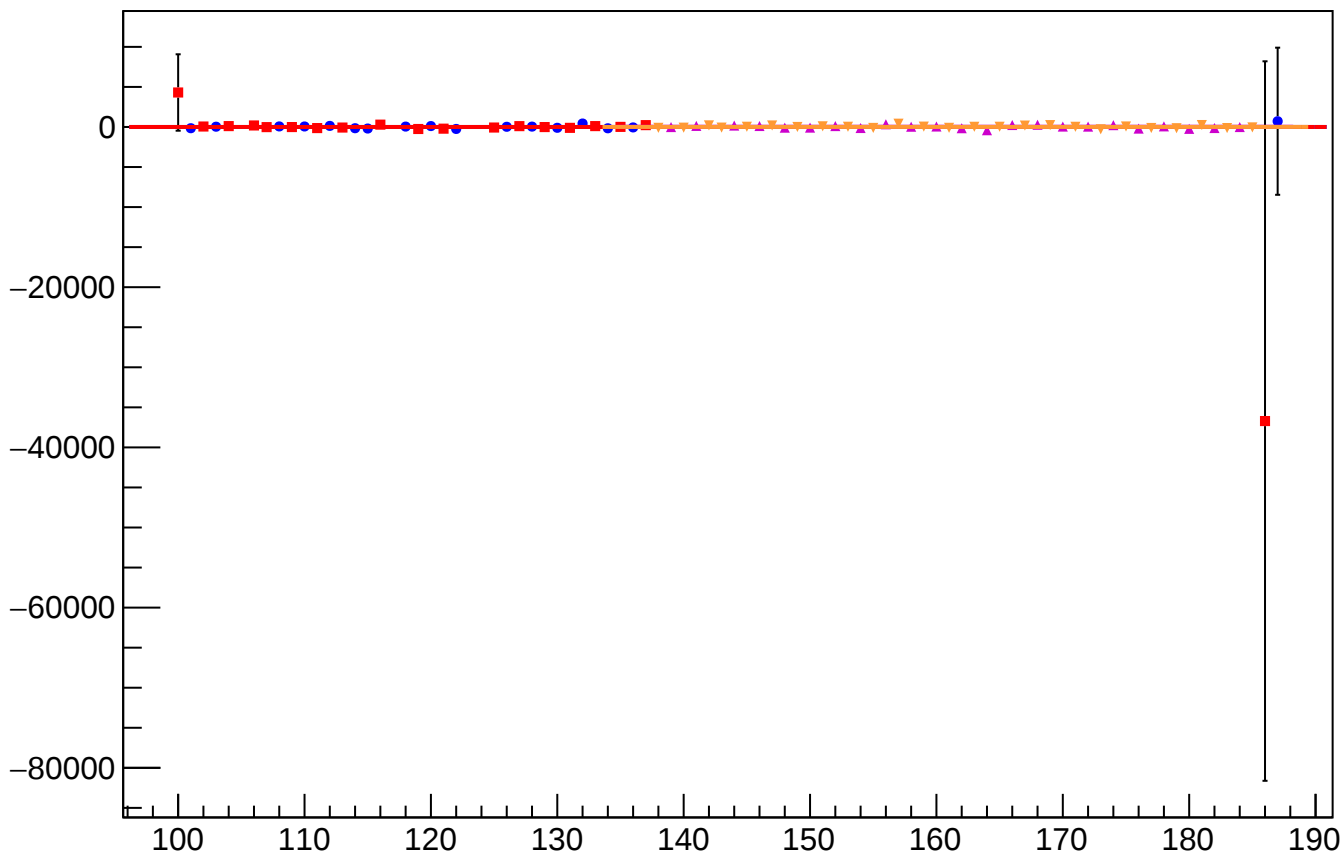
Right: 2092.370+/-0.397 χ^2/NDF : 662662.1/37

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

Out: 1971.999+/-0.276 χ^2/NDF : 755770.3/44

All: 1956.776+/-0.197 χ^2/NDF : 1632321.9/85

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.758 $\pm$ 36.771 χ^2/NDF : 16.5/16

Left Out: 7.608 $\pm$ 25.572 χ^2/NDF :36.5/24

Right Out: 1.435 $\pm$ 36.756 χ^2/NDF : 14.4/18

Left In: 24.786 $\pm$ 26.343 χ^2/NDF :36.4/22

Left: 15.942 $\pm$ 18.349 χ^2/NDF : 73.1/47

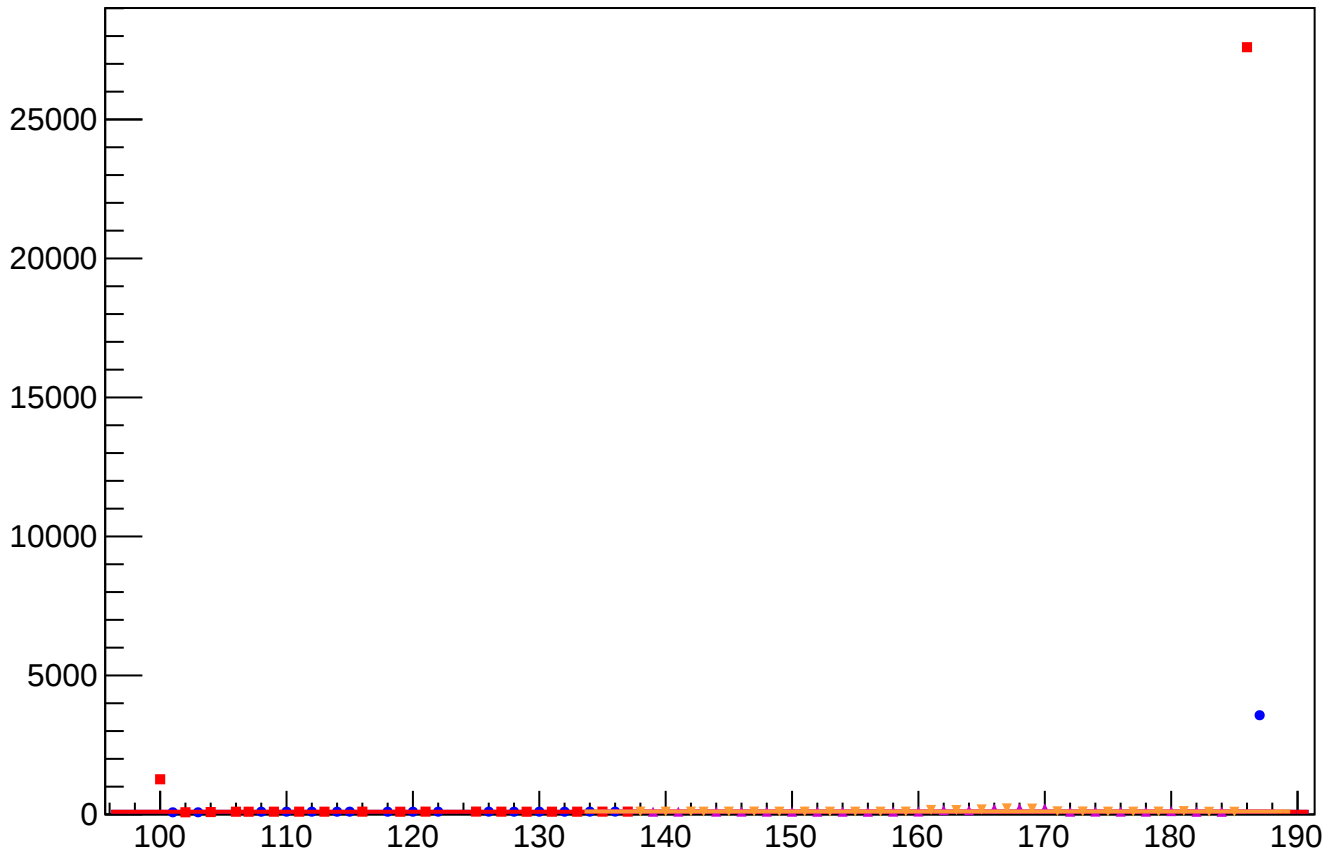
Right: 0.339 $\pm$ 25.996 χ^2/NDF : 30.9/35

In: 16.122 $\pm$ 21.415 χ^2/NDF :53.3/39

Out: 5.595 $\pm$ 20.992 χ^2/NDF :50.9/43

All: 10.754 $\pm$ 14.991 χ^2/NDF : 104.3/83

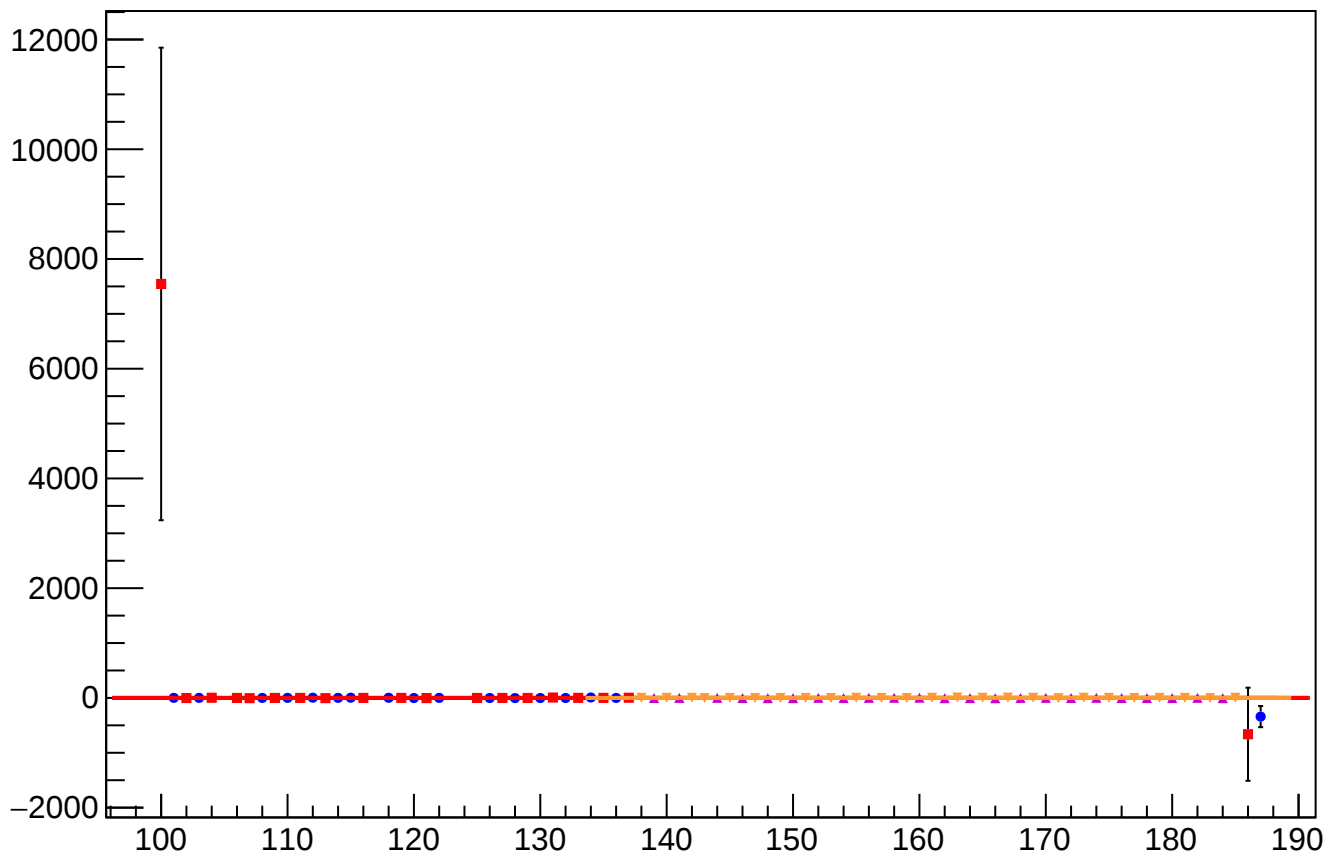
reg_asym_dsl_rms vs Slug, Sign Corrected



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: 96.376+/-0.026 χ^2/NDF : 959204.9/18
Left In: 107.672+/-0.019 χ^2/NDF : 1491034.7/22

Left: 107.630+/-0.013 χ^2/NDF : 2938417.0/47
Right: 95.240+/-0.018 χ^2/NDF : 1401459.4/35
In: 103.070+/-0.015 χ^2/NDF : 2109451.0/39
Out: 103.932+/-0.015 χ^2/NDF : 2532001.4/43
All: 103.510+/-0.011 χ^2/NDF : 4643105.9/83

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.386+/-0.617 χ^2/NDF : 13.5/16

Left Out: -0.765+/-0.459 χ^2/NDF : 34.1/24

Right Out: -0.345+/-0.644 χ^2/NDF : 21.6/18

Left In: -0.067+/-0.485 χ^2/NDF : 25.0/22

Left: -0.435+/-0.333 χ^2/NDF : 60.2/47

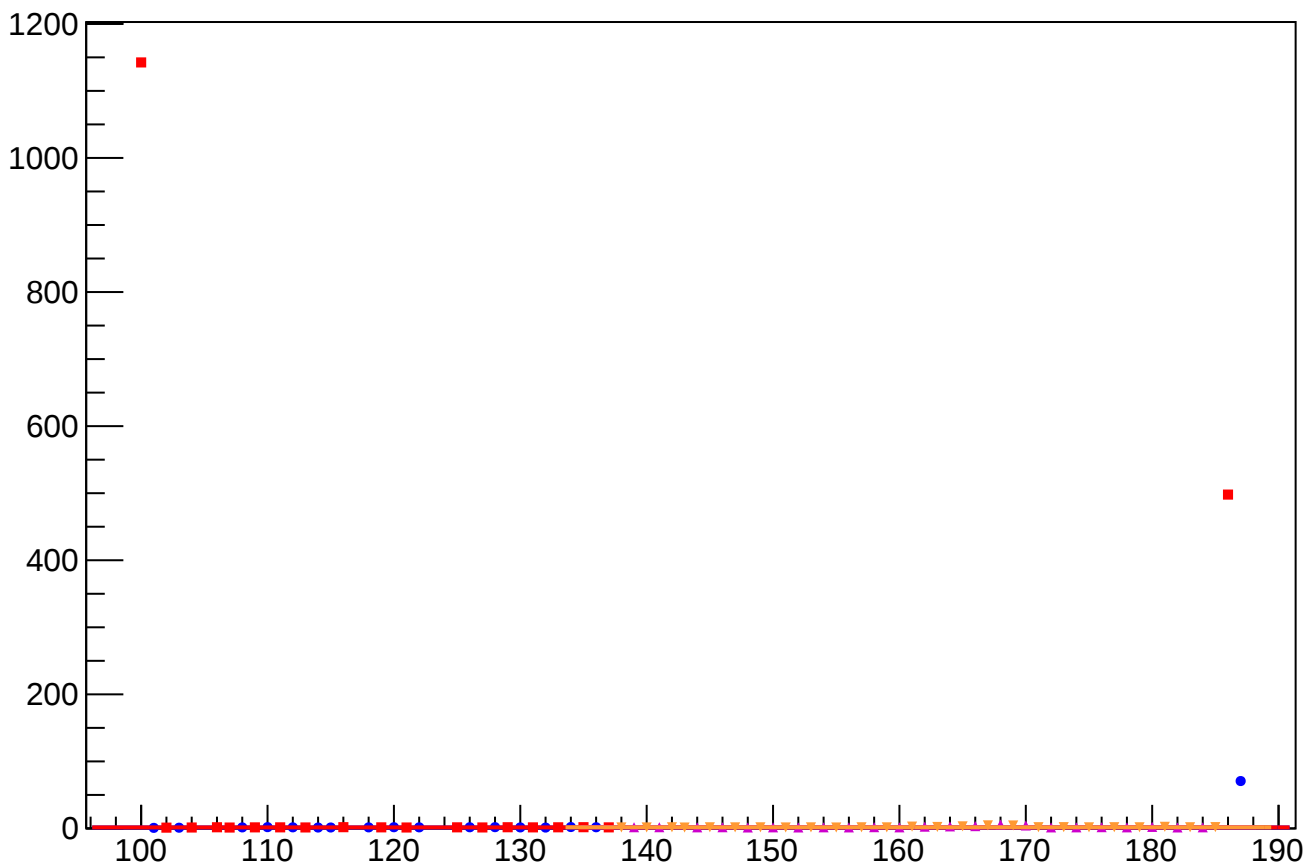
Right: 0.036+/-0.445 χ^2/NDF : 35.8/35

In: 0.106+/-0.381 χ^2/NDF : 38.9/39

Out: -0.623+/-0.374 χ^2/NDF : 56.0/43

All: -0.266+/-0.267 χ^2/NDF : 96.7/83

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: 1.555+/-0.000 χ^2/NDF : 998606.0/18

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

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

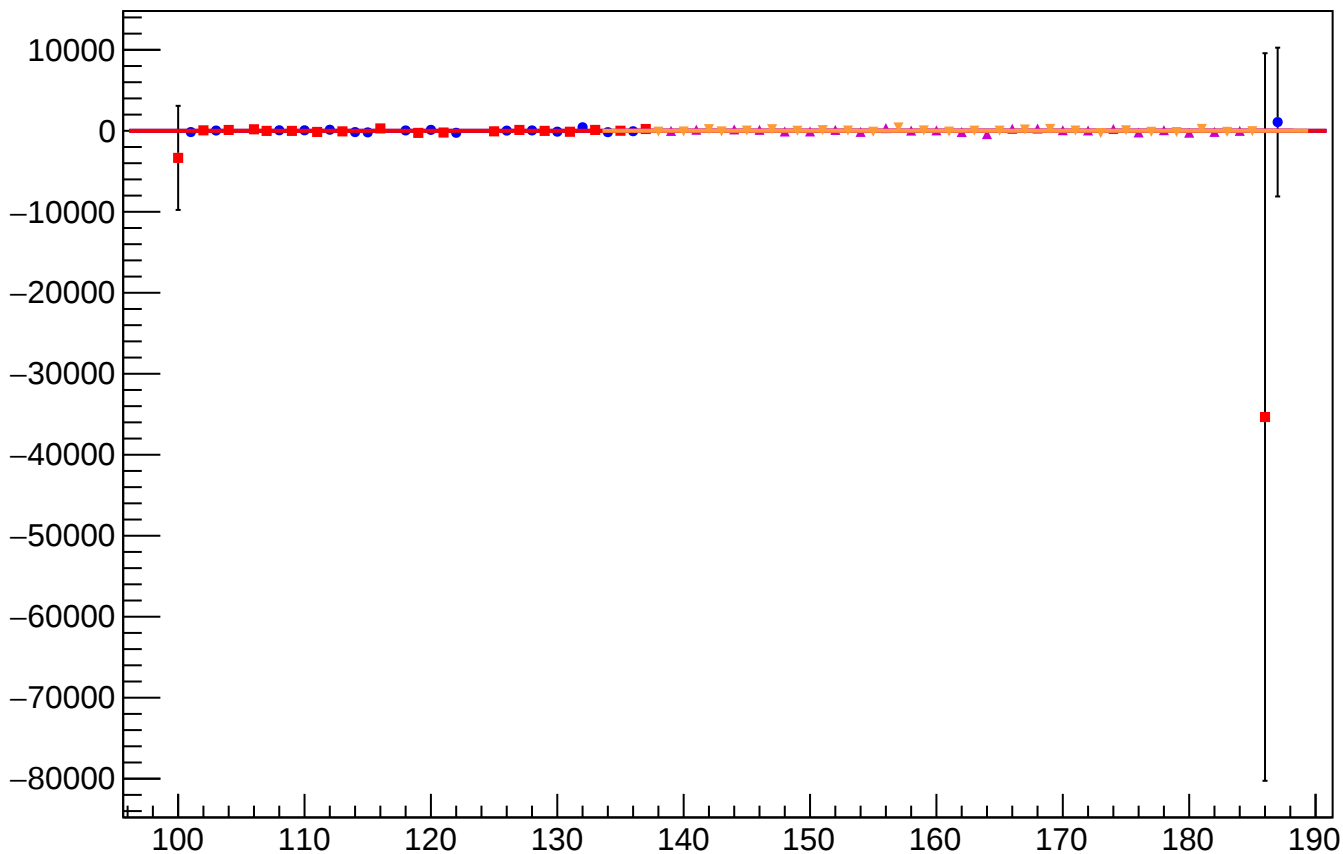
Right: 1.485+/-0.000 χ^2/NDF : 2015926.2/35

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

Out: 1.682+/-0.000 χ^2/NDF : 2799285.7/43

All: 1.670+/-0.000 χ^2/NDF : 6170252.7/83

asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.456 ± 36.781 χ^2/NDF : 16.7/16

Left Out: 8.411 ± 25.580 χ^2/NDF : 36.3/24

Right Out: 1.200 ± 36.766 χ^2/NDF : 13.9/18

Left In: 25.312 ± 26.351 χ^2/NDF : 35.7/22

Left: 16.611 ± 18.355 χ^2/NDF : 72.2/47

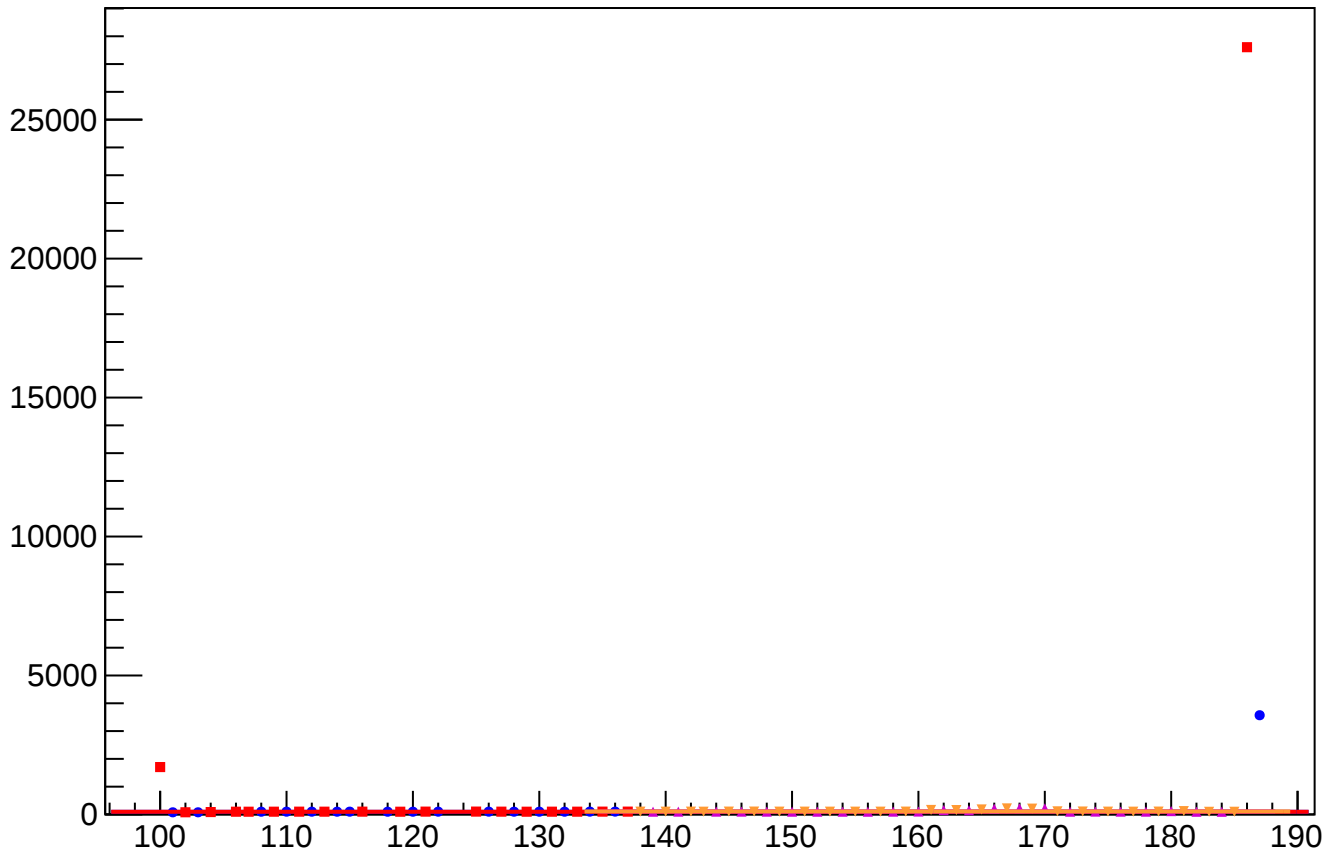
Right: 0.372 ± 26.003 χ^2/NDF : 30.6/35

In: 16.571 ± 21.421 χ^2/NDF : 52.7/39

Out: 6.059 ± 20.998 χ^2/NDF : 50.3/43

All: 11.210 ± 14.995 χ^2/NDF : 103.1/83

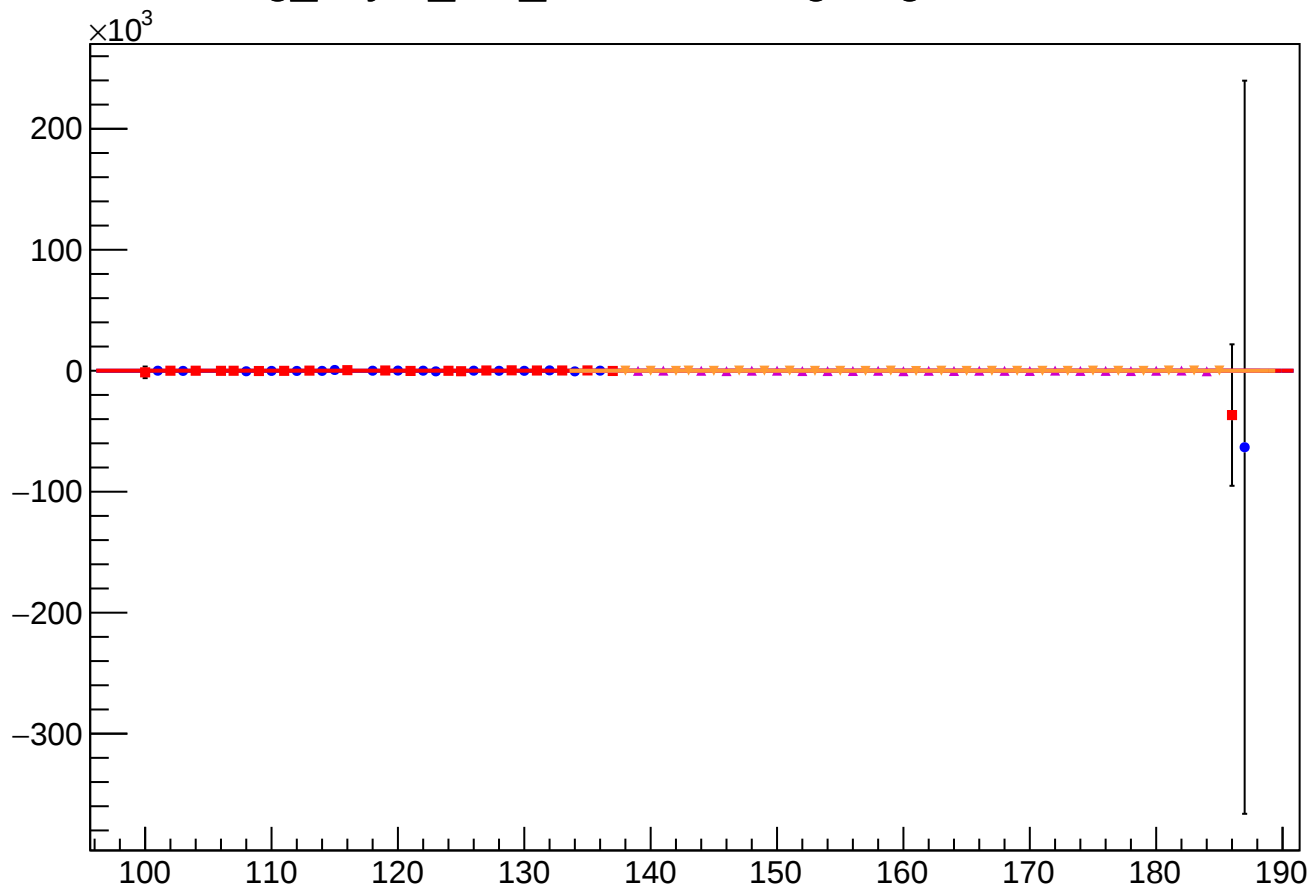
asym_dsl_rms vs Slug, Sign Corrected



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: 96.385+/-0.026 χ^2/NDF : 964345.9/18
Left In: 107.703+/-0.019 χ^2/NDF : 1492338.5/22

Left: 107.660+/-0.013 χ^2/NDF : 2941117.9/47
Right: 95.257+/-0.018 χ^2/NDF : 1406566.6/35
In: 103.098+/-0.015 χ^2/NDF : 2110847.7/39
Out: 103.956+/-0.015 χ^2/NDF : 2538953.4/43
All: 103.535+/-0.011 χ^2/NDF : 4651434.6/83

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.799 ± 46.841 χ^2/NDF : 14.5/17

Left Out: -12.829 ± 32.063 χ^2/NDF : 12.0/24

Right Out: 53.360 ± 47.775 χ^2/NDF : 15.8/19

Left In: -65.335 ± 32.944 χ^2/NDF : 19.3/22

Left: -38.371 ± 22.977 χ^2/NDF : 32.6/47

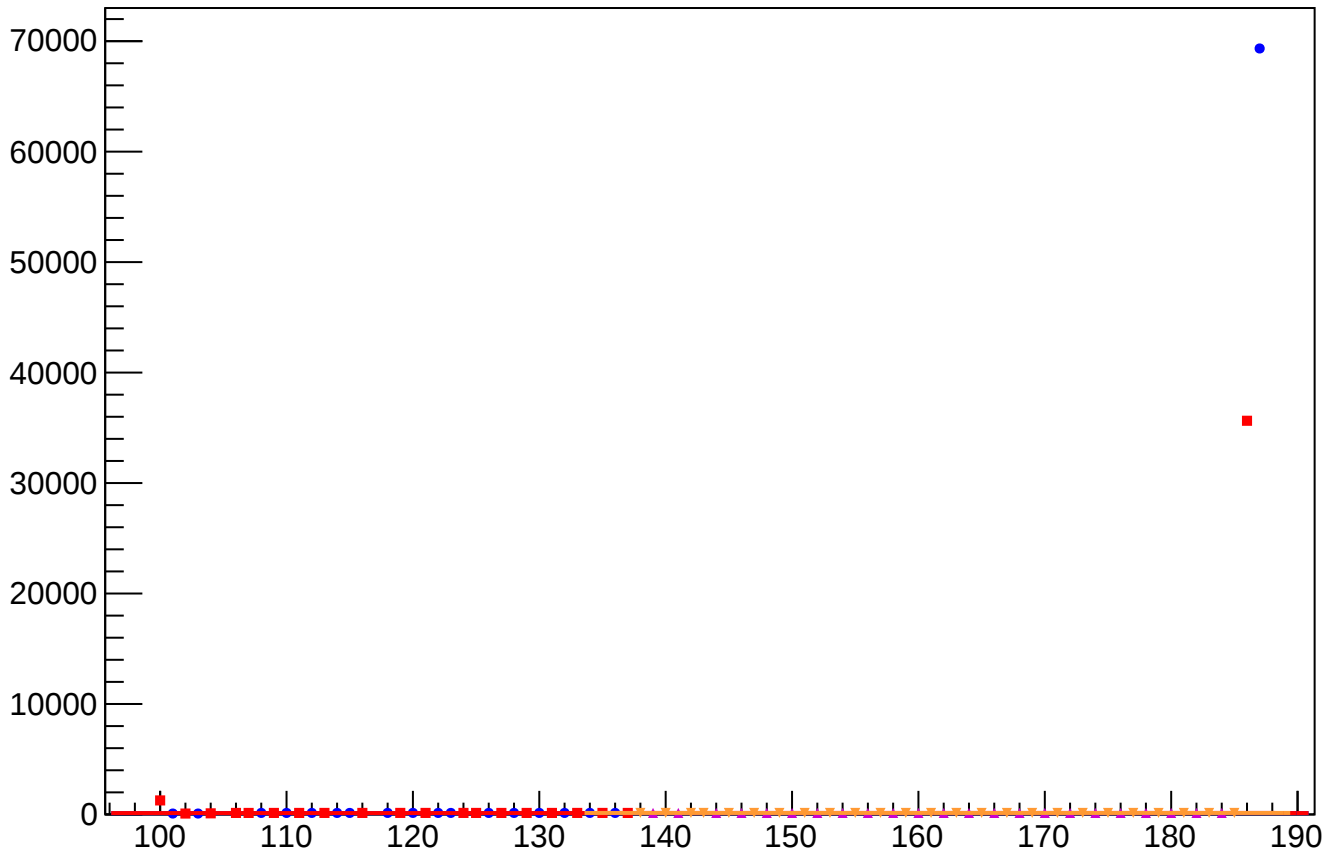
Right: 12.489 ± 33.447 χ^2/NDF : 31.7/37

In: -52.582 ± 26.947 χ^2/NDF : 34.2/40

Out: 7.725 ± 26.623 χ^2/NDF : 29.1/44

All: -22.064 ± 18.939 χ^2/NDF : 65.9/85

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.764+/-0.033 χ^2/NDF : 797574.6/17

Left Out: 137.856+/-0.023 χ^2/NDF : 443.5/24

Right Out: 124.748+/-0.034 χ^2/NDF : 1306936.4/19

Left In: 137.804+/-0.023 χ^2/NDF : 460.3/22

Left: 137.831+/-0.016 χ^2/NDF : 906.3/47

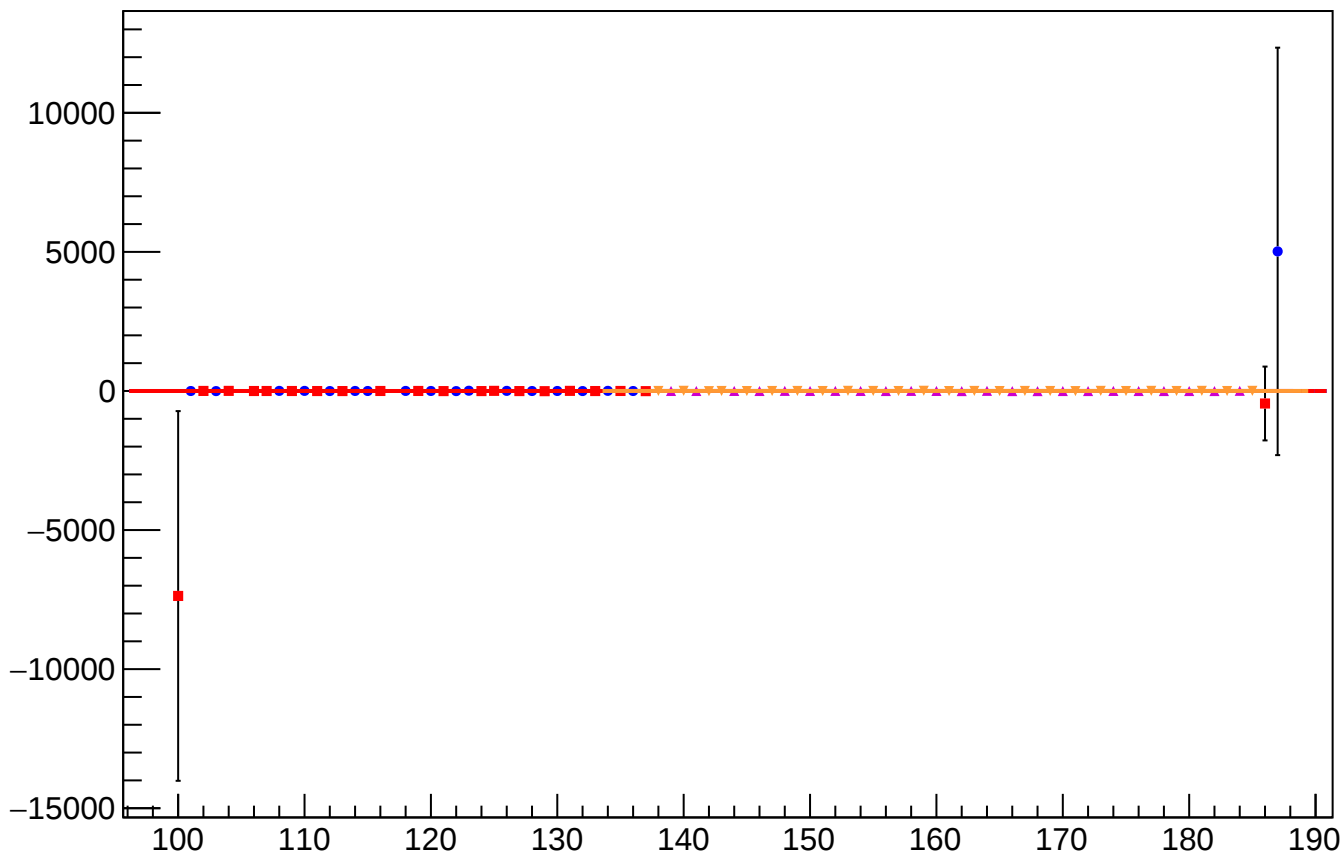
Right: 121.187+/-0.024 χ^2/NDF : 2126304.3/37

In: 131.172+/-0.019 χ^2/NDF : 1042978.0/40

Out: 133.786+/-0.019 χ^2/NDF : 1411194.6/44

All: 132.495+/-0.013 χ^2/NDF : 2463694.6/85

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 $\pm$ 0.810 χ^2/NDF : 12.7/17

Left Out: 0.490 $\pm$ 0.572 χ^2/NDF :29.0/24

Right Out: -0.638 $\pm$ 0.852 χ^2/NDF : 14.8/19

Left In: 0.290 $\pm$ 0.579 χ^2/NDF :20.7/22

Left: 0.391 $\pm$ 0.407 χ^2/NDF : 49.7/47

Right: -0.681 $\pm$ 0.587 χ^2/NDF : 27.5/37

In: -0.052 $\pm$ 0.471 χ^2/NDF :34.4/40

Out: 0.139 $\pm$ 0.475 χ^2/NDF :45.0/44

All: 0.043 $\pm$ 0.334 χ^2/NDF : 79.5/85

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 : 1093892.4/19

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

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

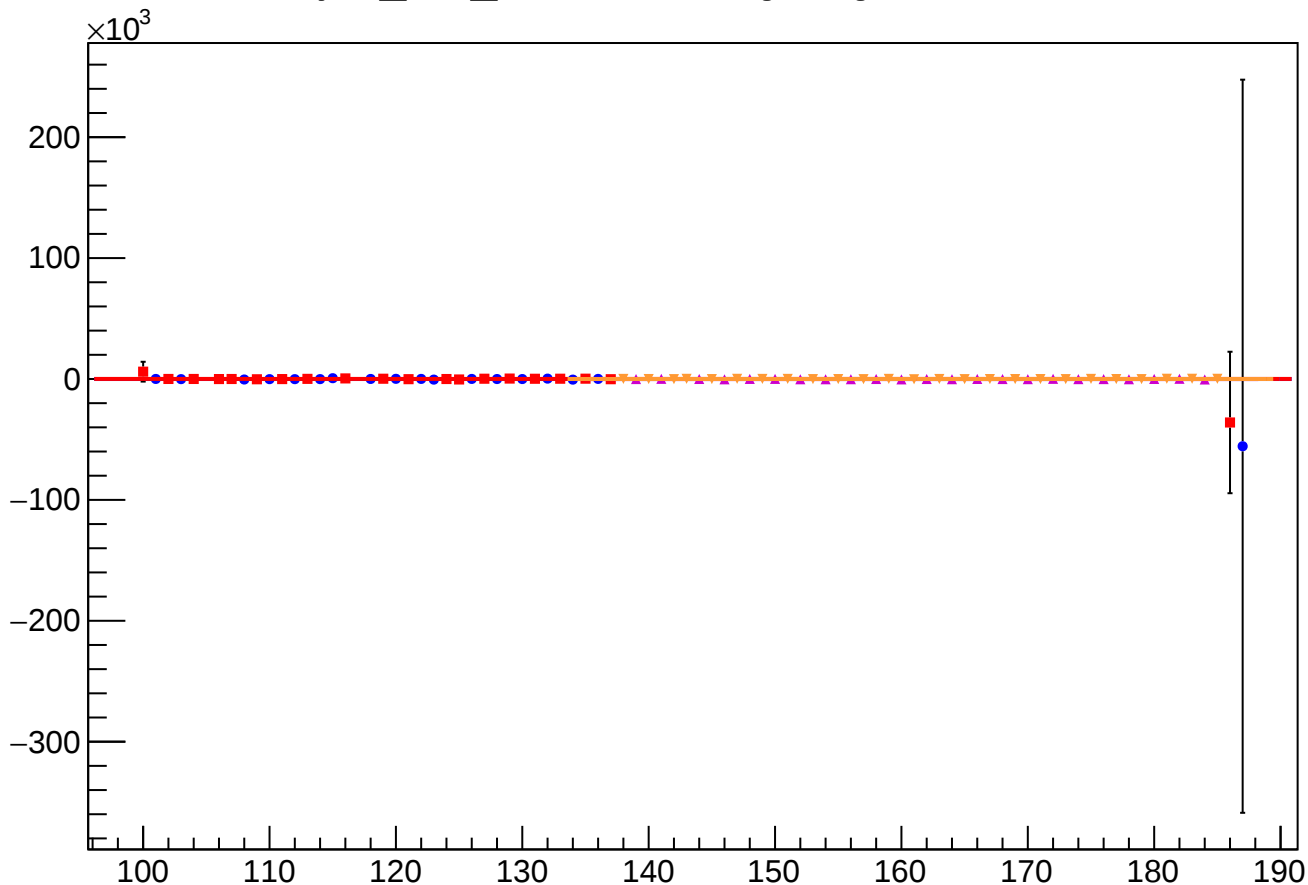
Right: 1.960+/-0.000 χ^2/NDF : 1780118.3/37

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

Out: 2.200+/-0.000 χ^2/NDF : 1543319.9/44

All: 2.141+/-0.000 χ^2/NDF : 2962429.1/85

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: 54.262 $\pm$ 47.789 χ^2 /NDF: 16.5/19

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

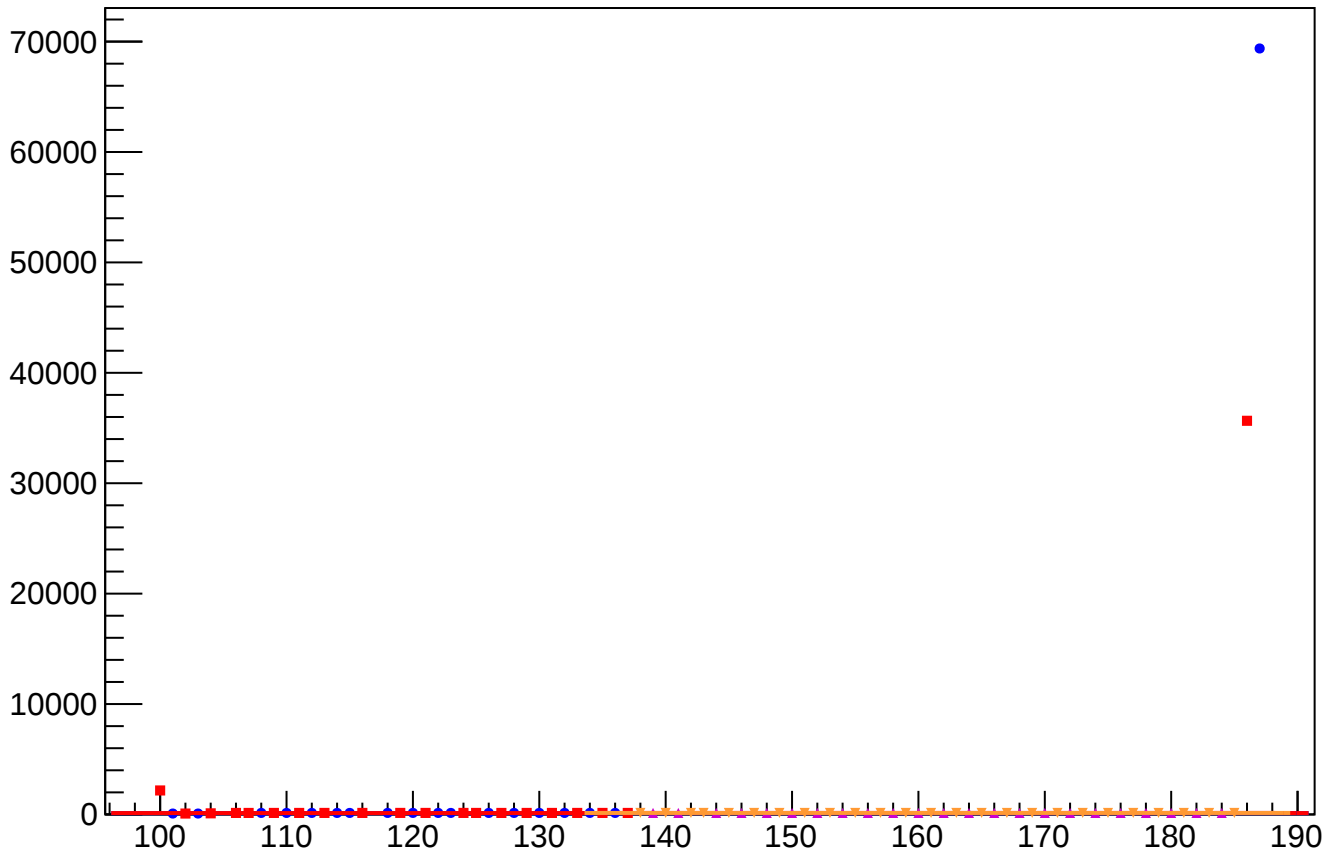
Right: 13.817 $\pm$ 33.456 χ^2 /NDF: 32.4/37

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

Out: 7.623 $\pm$ 26.631 χ^2 /NDF:29.6/44

All: -21.798 $\pm$ 18.944 χ^2 /NDF: 66.5/85

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: 124.737 $\pm$ 0.034 χ^2 /NDF: 1317510.2/19

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

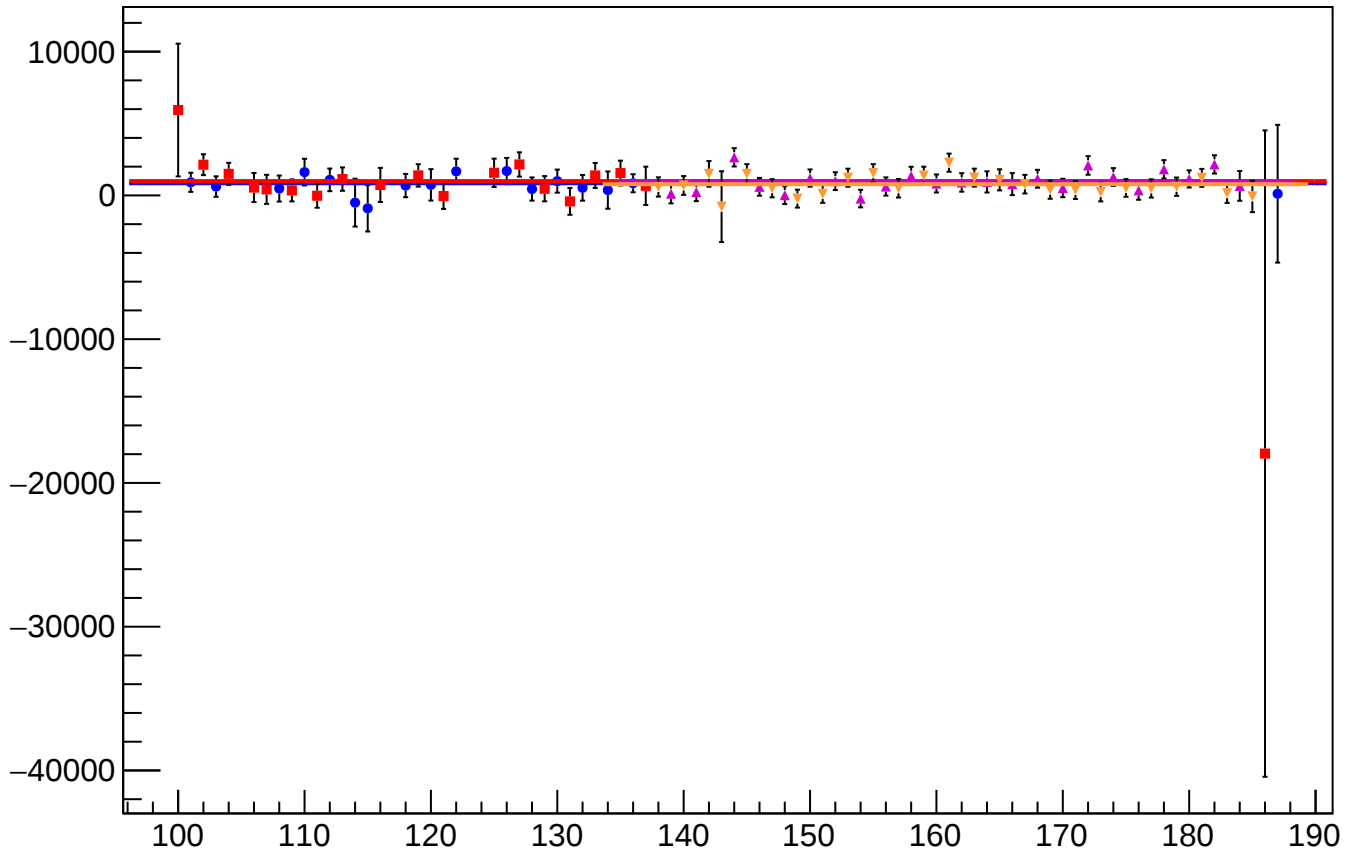
Right: 121.198 $\pm$ 0.024 χ^2 /NDF: 2136639.8/37

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

Out: 133.809 $\pm$ 0.019 χ^2 /NDF: 1422493.5/44

All: 132.524 $\pm$ 0.013 χ^2 /NDF: 2474968.8/85

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: 995.406 $\pm$ 213.254 χ^2 /NDF: 14.7/18

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

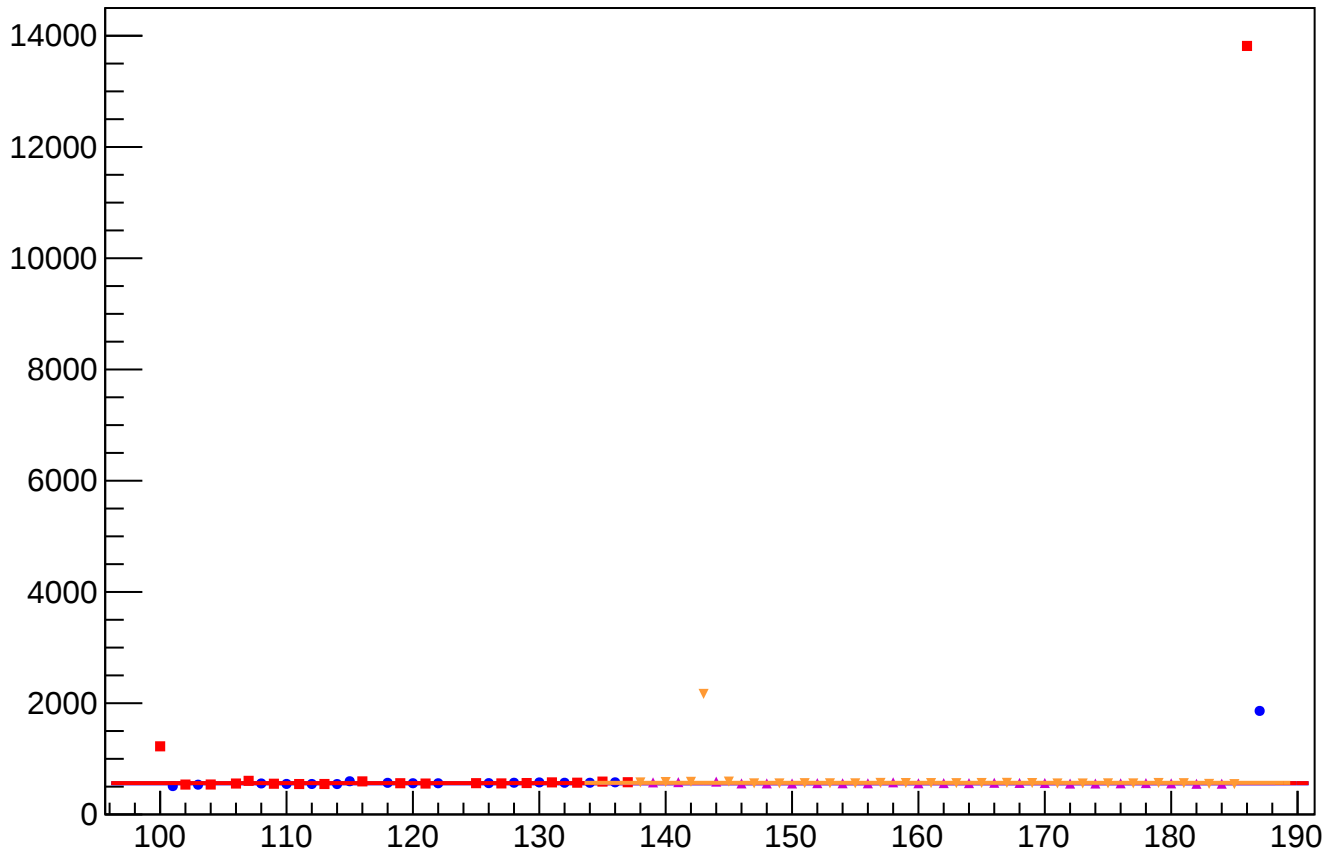
Right: 921.585 $\pm$ 151.909 χ^2 /NDF: 20.2/35

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

Out: 840.697 $\pm$ 113.373 χ^2 /NDF:35.1/43

All: 889.032 $\pm$ 80.564 χ^2 /NDF: 68.4/83

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: 563.652+/-0.151 χ^2/NDF : 750650.0/18

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

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

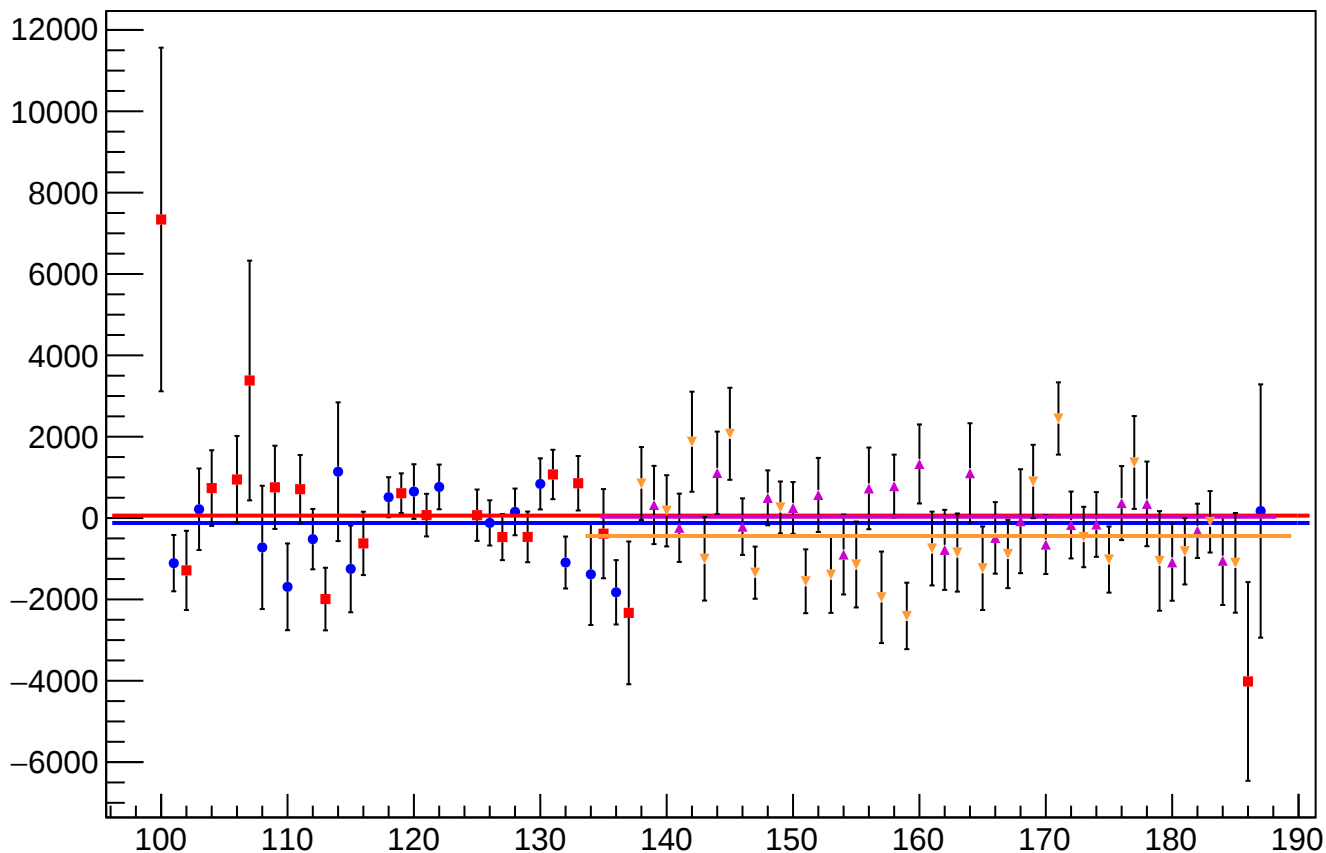
Right: 561.624+/-0.107 χ^2/NDF : 917678.8/35

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

Out: 567.398+/-0.080 χ^2/NDF : 1605224.9/43

All: 565.234+/-0.057 χ^2/NDF : 1783290.9/83

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: 60.305+/-178.849 χ^2/NDF : 28.1/18

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

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

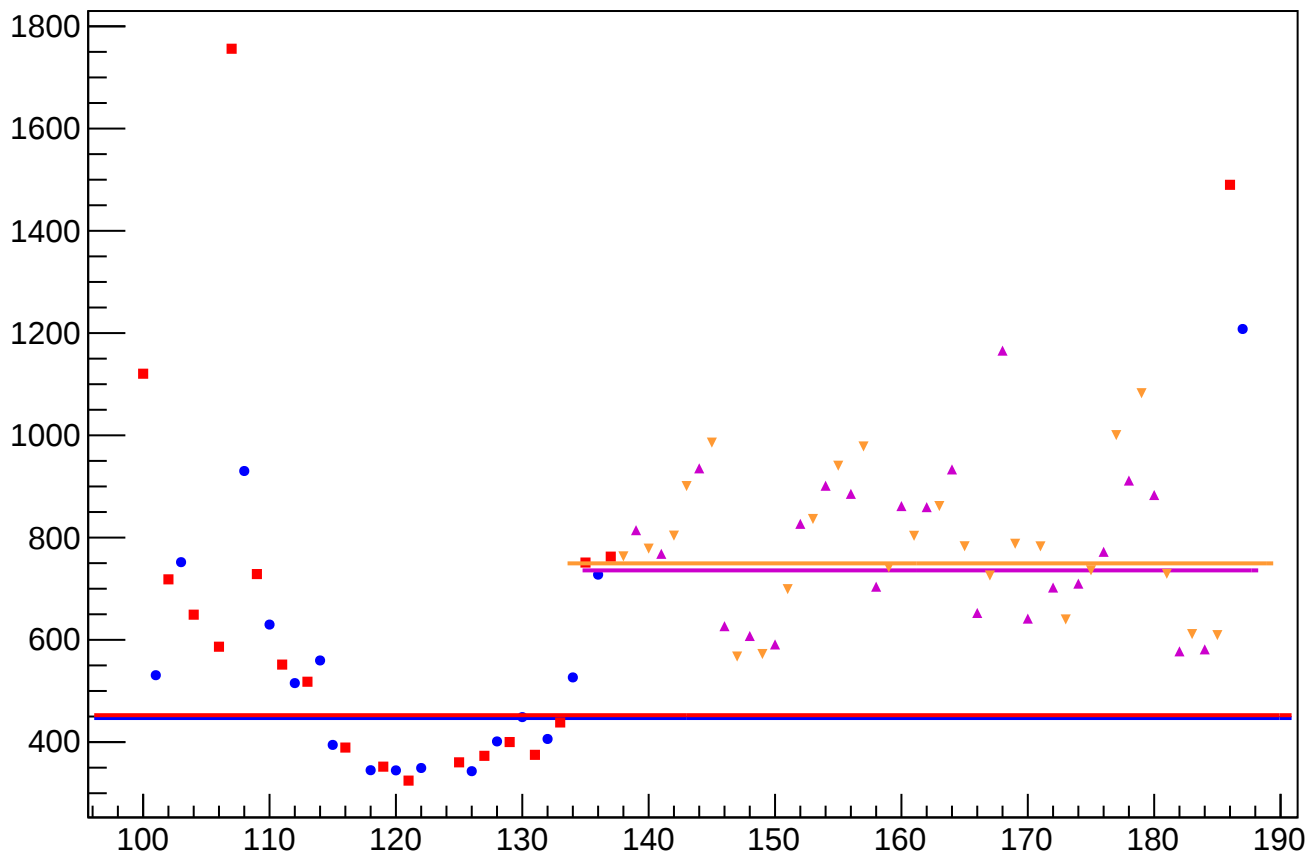
Right: -29.416+/-127.039 χ^2/NDF : 51.2/35

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

Out: -191.212+/-126.122 χ^2/NDF : 75.6/43

All: -118.130+/-89.577 χ^2/NDF : 111.4/83

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: 452.633+/-0.126 χ^2/NDF : 1817518.2/18

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

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

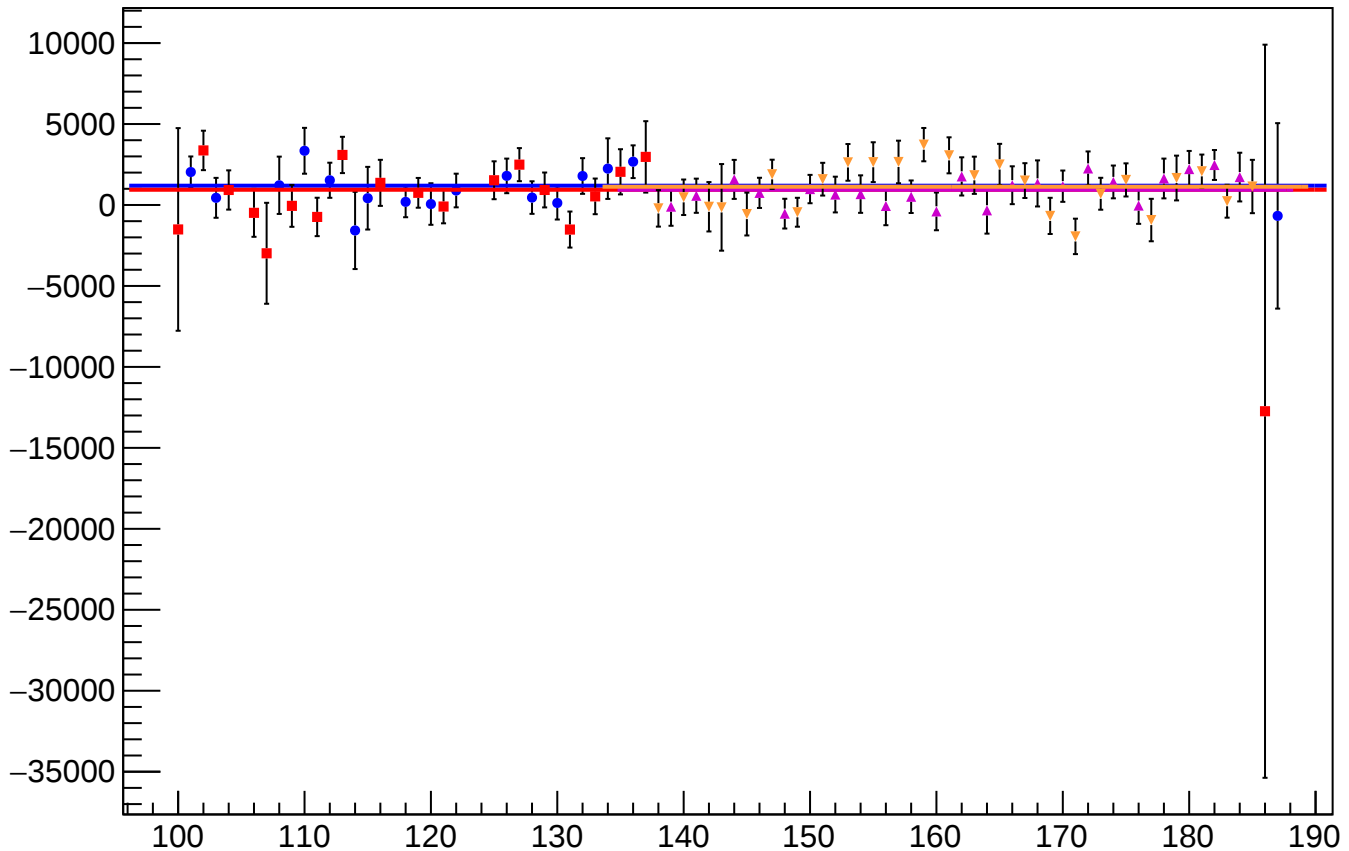
Right: 449.880+/-0.090 χ^2/NDF : 2991007.7/35

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

Out: 601.909+/-0.089 χ^2/NDF : 5642524.6/43

All: 597.151+/-0.063 χ^2/NDF : 10501209.6/83

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: 940.472 $\pm$ 294.196 χ^2 /NDF: 23.5/18

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

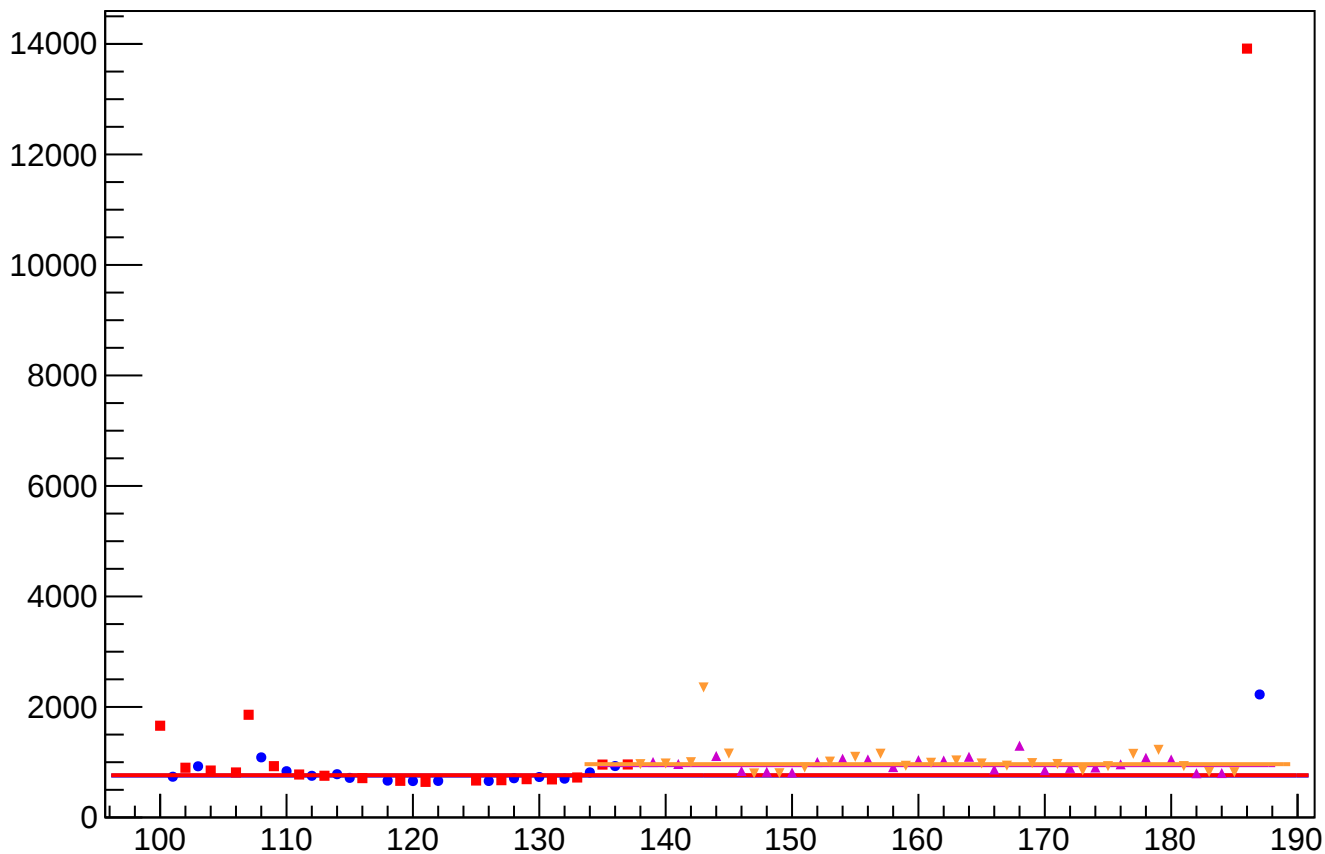
Right: 1065.191 $\pm$ 208.559 χ^2 /NDF: 35.7/35

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

Out: 1058.007 $\pm$ 180.216 χ^2 /NDF:62.8/43

All: 1046.480 $\pm$ 127.610 χ^2 /NDF: 89.9/83

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: 764.538+/-0.208 χ^2/NDF : 1188827.1/18

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

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

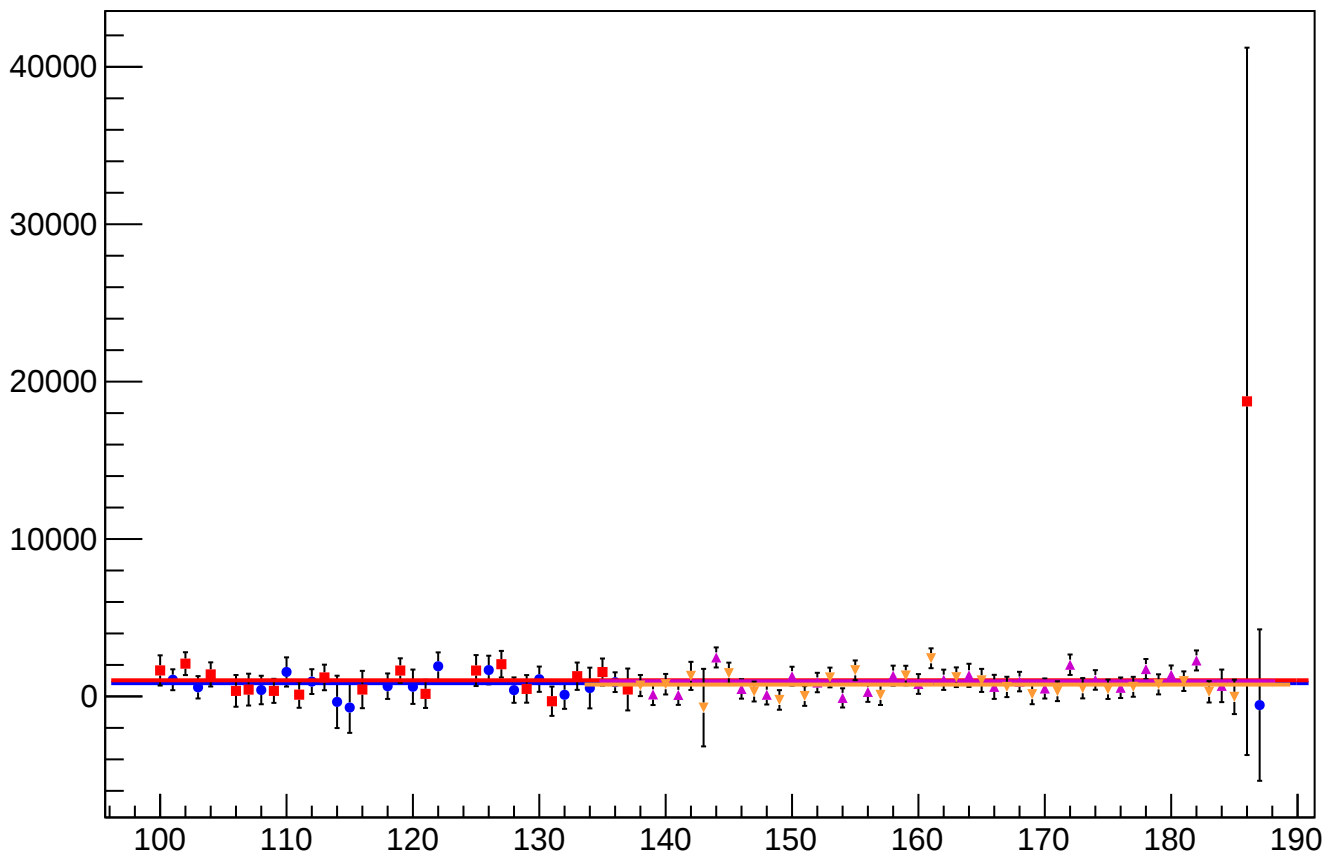
Right: 761.153+/-0.147 χ^2/NDF : 1571300.7/35

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

Out: 889.461+/-0.127 χ^2/NDF : 2768796.6/43

All: 882.769+/-0.090 χ^2/NDF : 4168633.2/83

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: 1024.573 $\pm$ 208.221 χ^2 /NDF: 13.0/18

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

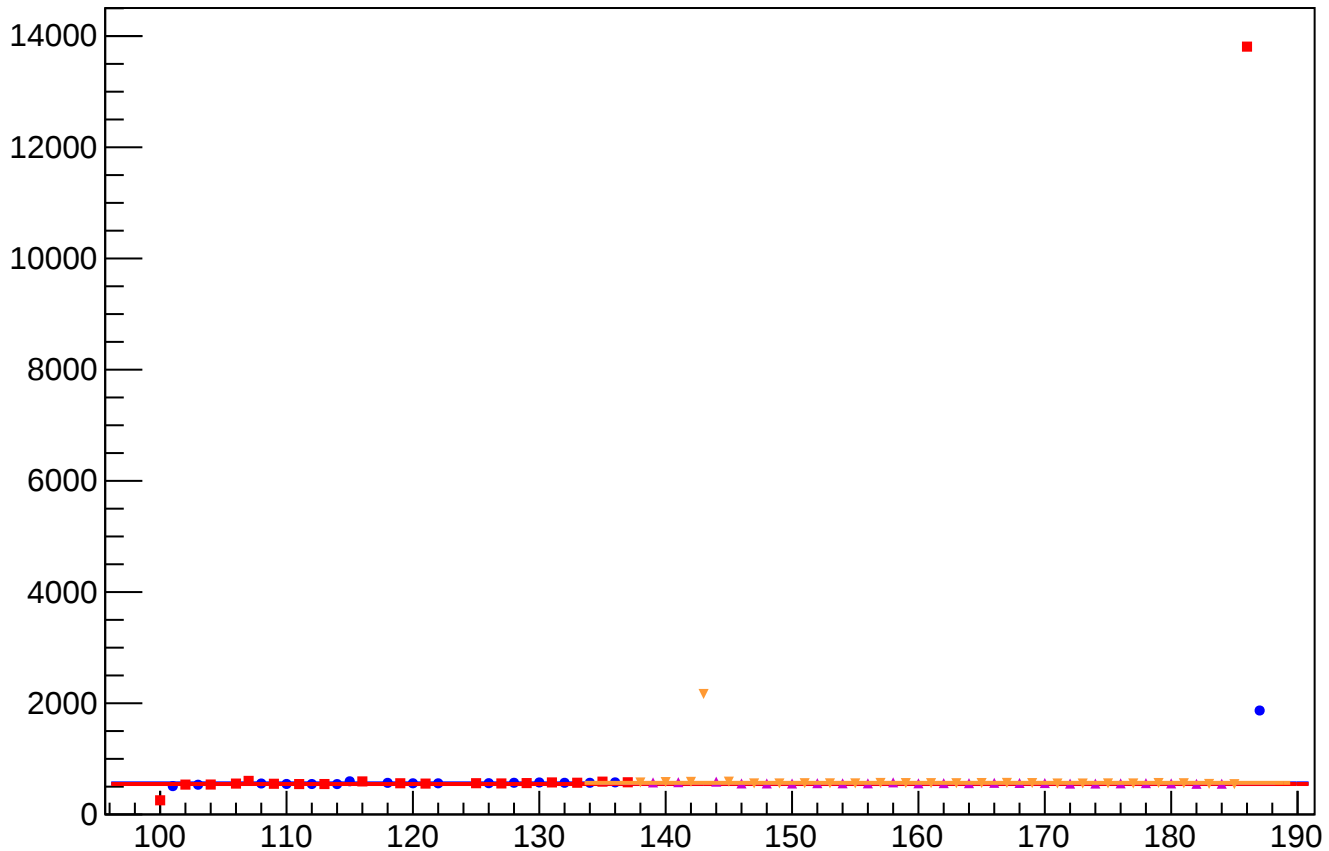
Right: 937.011 $\pm$ 150.002 χ^2 /NDF: 19.5/35

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

Out: 832.538 $\pm$ 112.531 χ^2 /NDF:35.5/43

All: 878.523 $\pm$ 80.229 χ^2 /NDF: 69.1/83

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: 547.302 $\pm$ 0.147 χ^2 /NDF: 904898.2/18

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

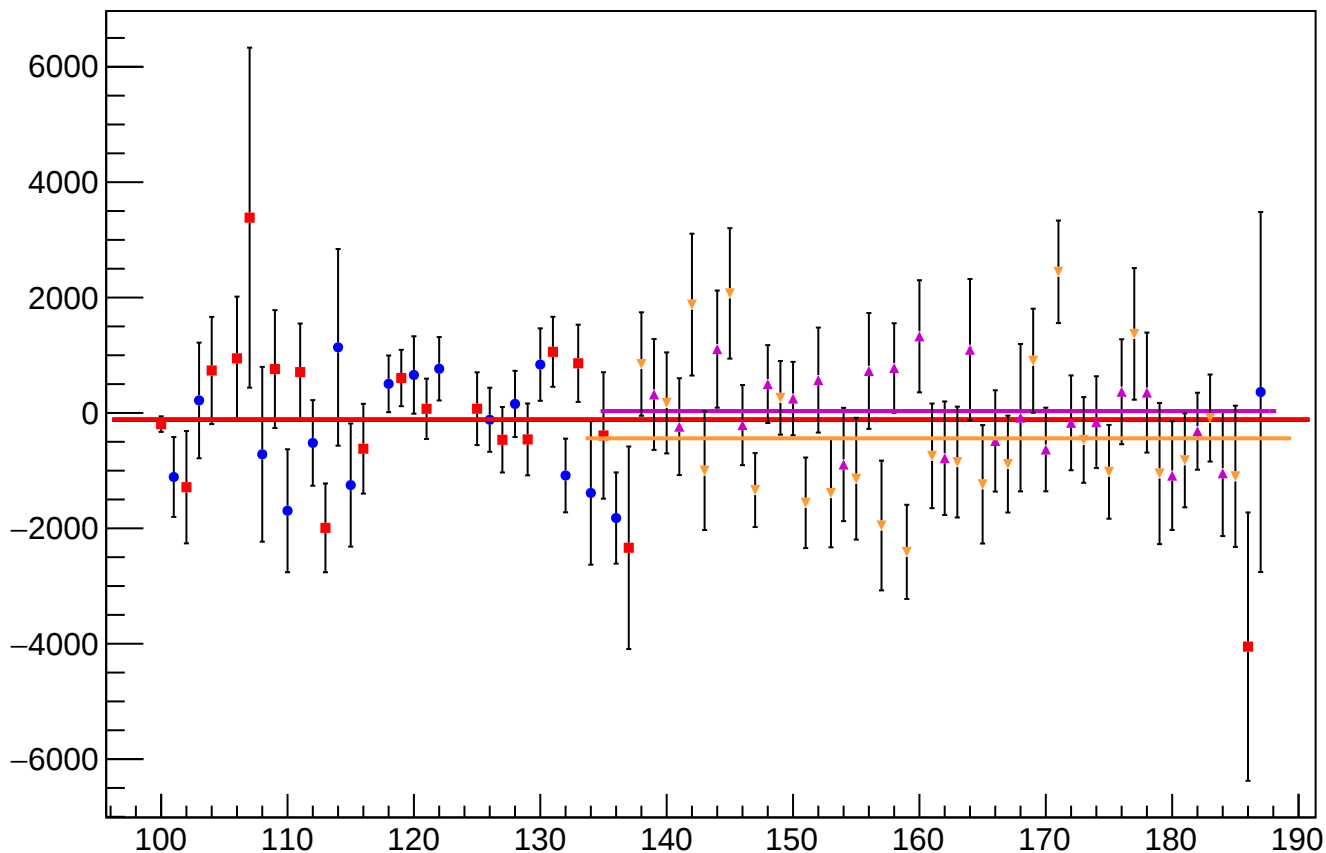
Right: 552.973 $\pm$ 0.106 χ^2 /NDF: 1075327.4/35

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

Out: 562.238 $\pm$ 0.080 χ^2 /NDF: 1773447.3/43

All: 562.405 $\pm$ 0.057 χ^2 /NDF: 1950727.8/83

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -119.589 ± 180.397 $\chi^2/\text{NDF}: 22.5/16$

Left Out: -439.659 ± 177.808 $\chi^2/\text{NDF}: 43.6/24$

Right Out: -107.269 ± 107.737 $\chi^2/\text{NDF}: 26.6/18$

Left In: 33.325 ± 179.355 $\chi^2/\text{NDF}: 12.1/22$

Left: -205.215 ± 126.273 $\chi^2/\text{NDF}: 59.2/47$

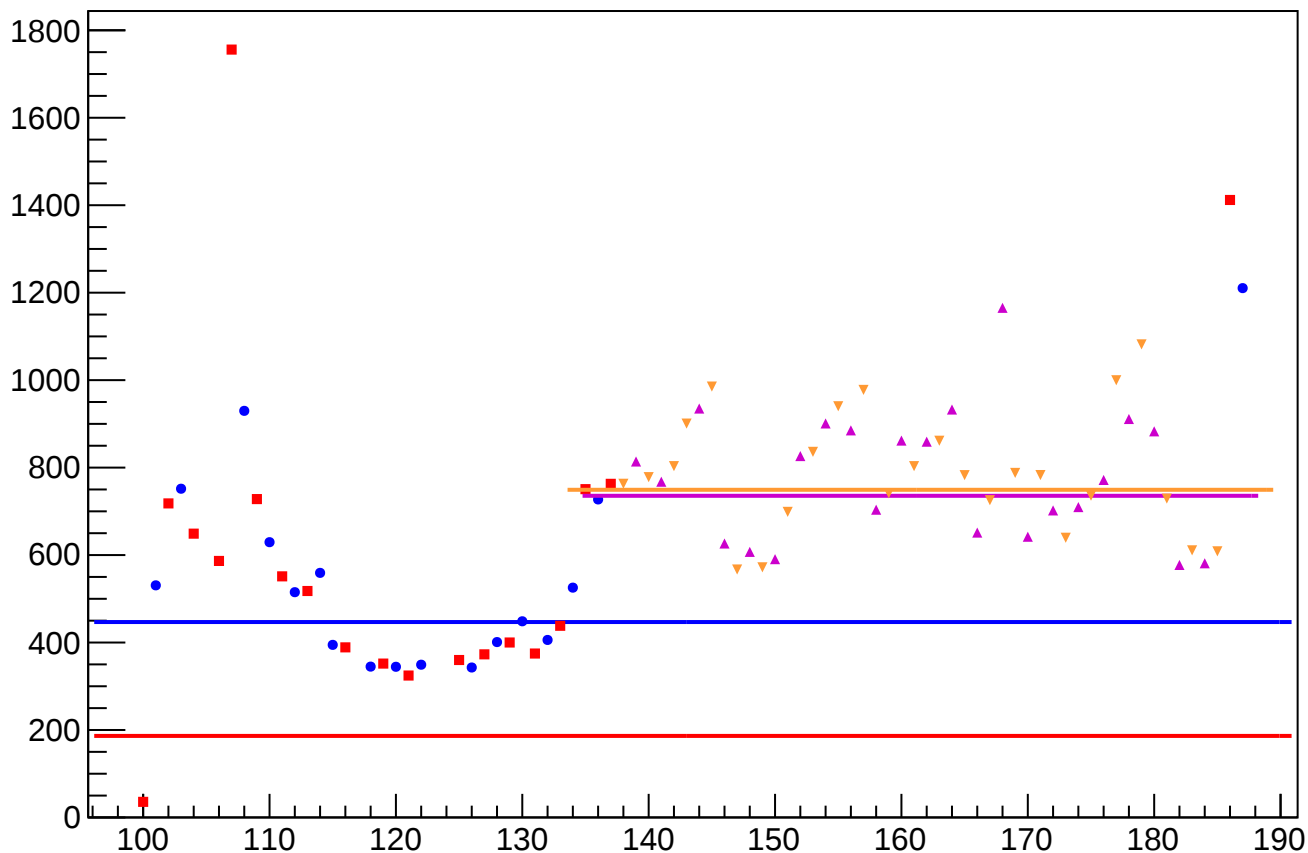
Right: -110.508 ± 92.497 $\chi^2/\text{NDF}: 49.1/35$

In: -42.689 ± 127.190 $\chi^2/\text{NDF}: 35.0/39$

Out: -196.529 ± 92.142 $\chi^2/\text{NDF}: 72.7/43$

All: -143.580 ± 74.619 $\chi^2/\text{NDF}: 108.7/83$

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: 186.469+/-0.076 χ^2/NDF : 8628650.6/18

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

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

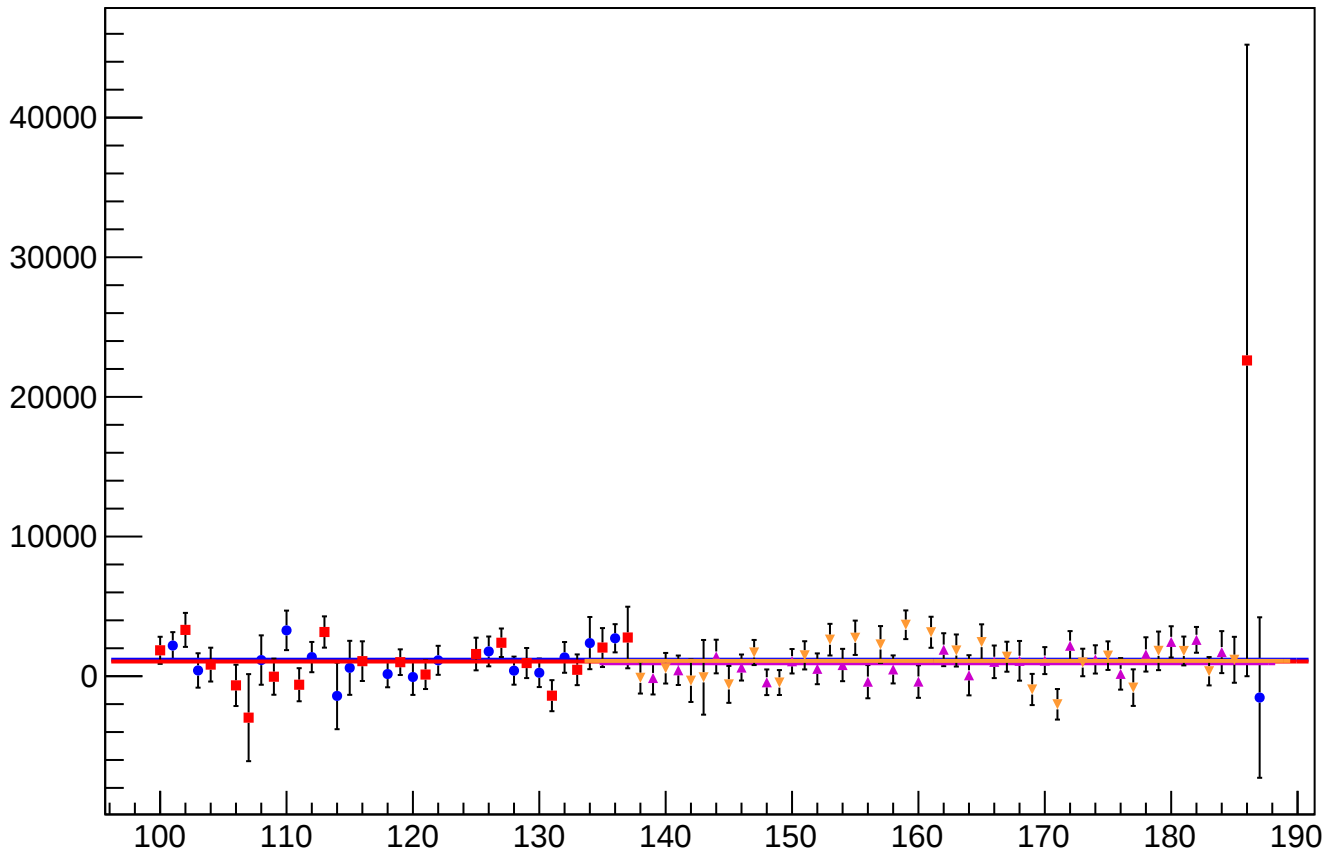
Right: 254.925+/-0.065 χ^2/NDF : 12872746.7/35

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

Out: 337.605+/-0.065 χ^2/NDF : 24339303.0/43

All: 425.176+/-0.053 χ^2/NDF : 34441557.7/83

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: 1051.000 $\pm$ 281.615 χ^2 /NDF: 23.3/18

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

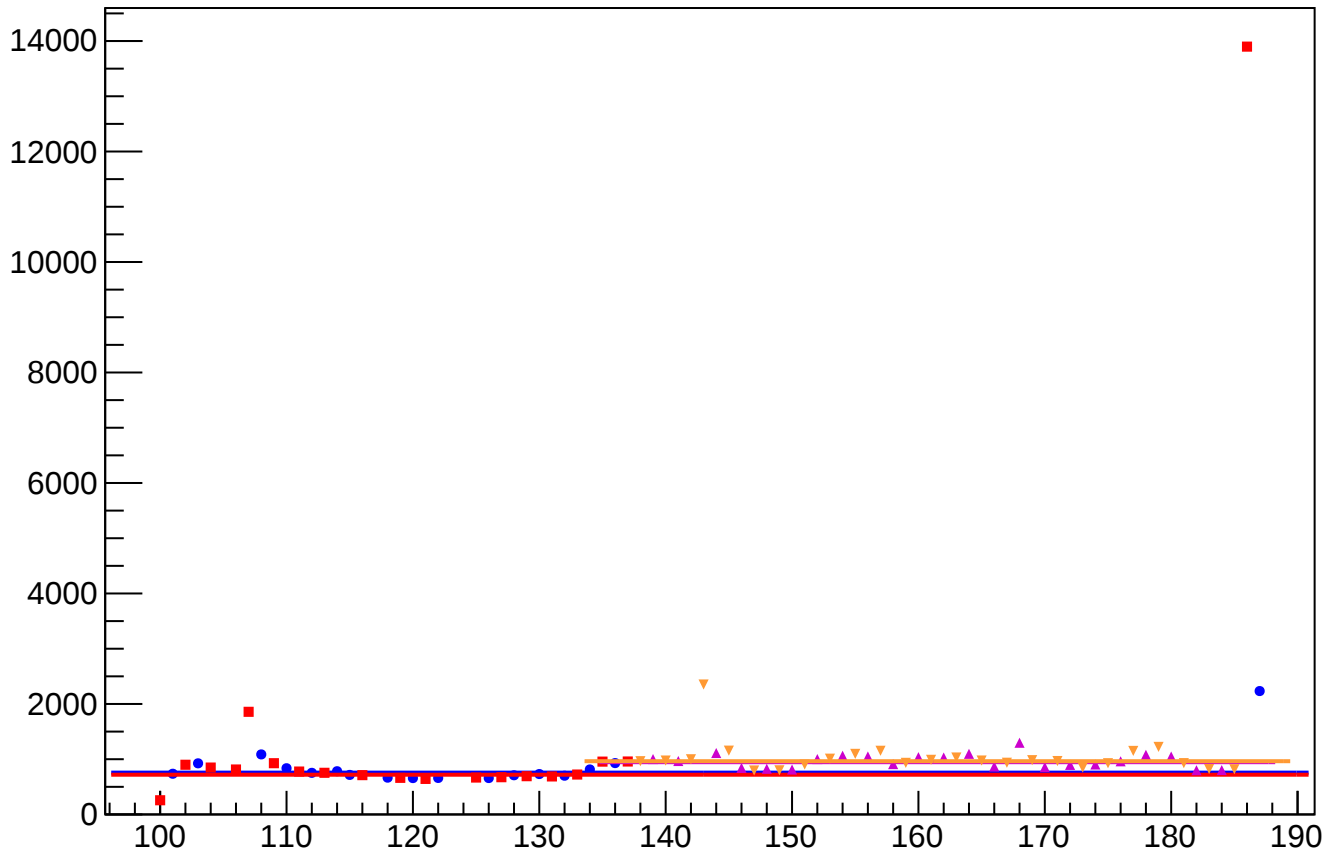
Right: 1112.293 $\pm$ 203.866 χ^2 /NDF: 35.3/35

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

Out: 1078.516 $\pm$ 177.142 χ^2 /NDF: 61.8/43

All: 1050.306 $\pm$ 126.467 χ^2 /NDF: 89.3/83

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: 719.371+/-0.199 χ^2/NDF : 1645155.3/18

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

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

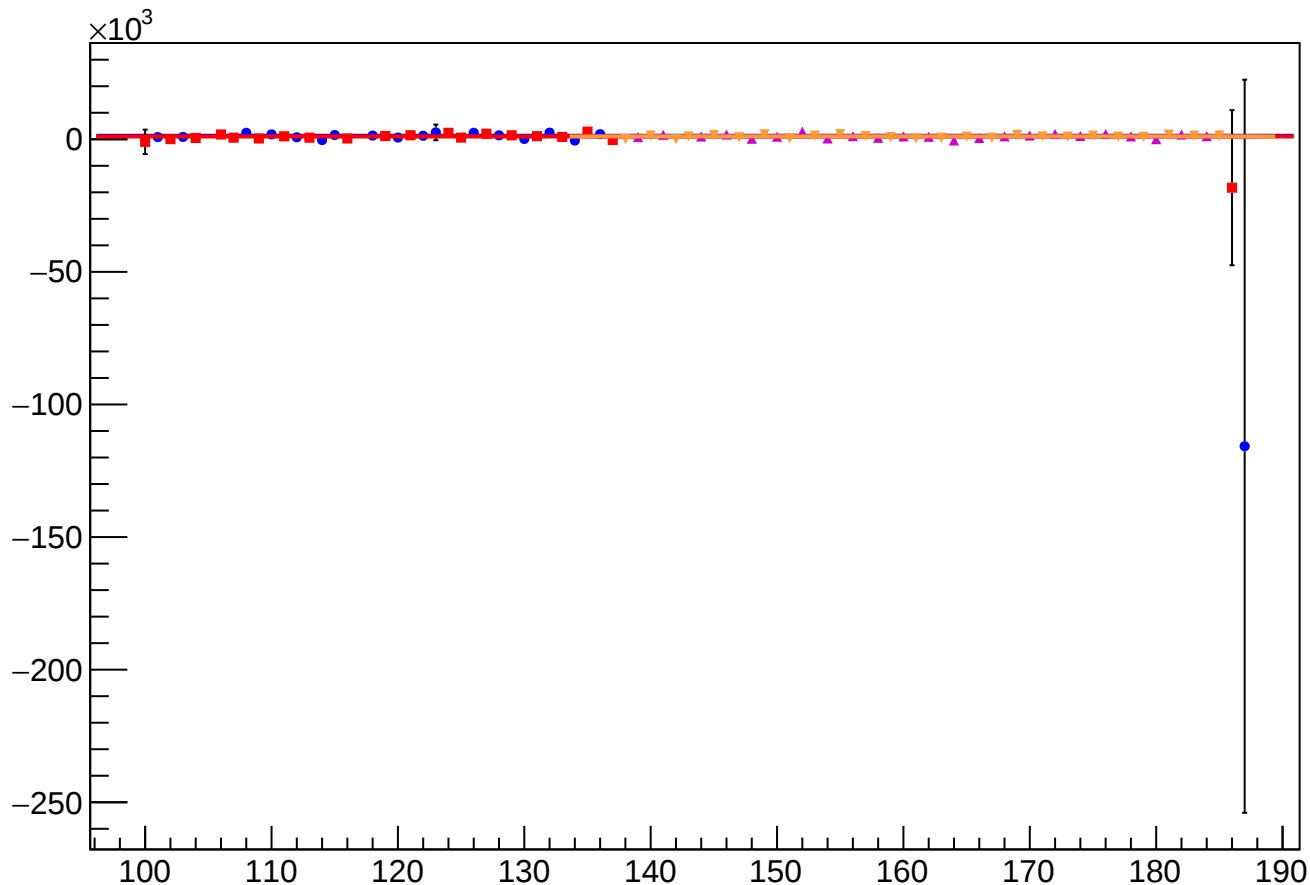
Right: 737.378+/-0.144 χ^2/NDF : 2045020.0/35

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

Out: 867.168+/-0.125 χ^2/NDF :3559780.9/43

All: 871.252+/-0.089 χ^2/NDF : 4957698.0/83

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: 1039.487+/-212.074 χ^2/NDF : 13.9/19

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

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

Right: 1177.316+/-152.214 χ^2/NDF : 28.3/37

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

Out: 1064.334+/-110.641 χ^2/NDF : 29.1/44

All: 1119.586+/-79.303 χ^2/NDF : 73.7/85

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: 566.235+/-0.150 χ^2/NDF : 745832.1/19

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

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

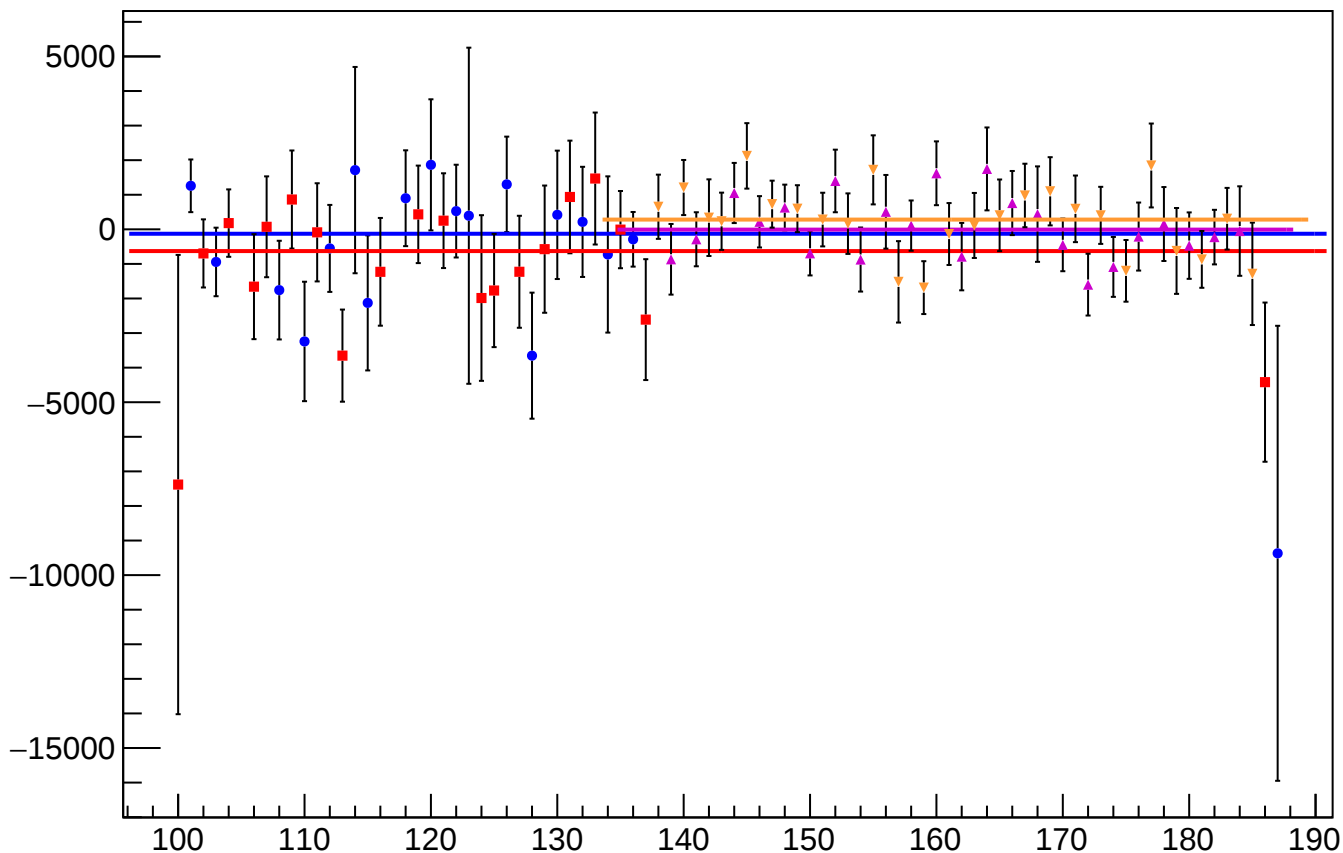
Right: 564.963+/-0.108 χ^2/NDF : 886750.1/37

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

Out: 559.902+/-0.078 χ^2/NDF : 763034.9/44

All: 559.350+/-0.056 χ^2/NDF : 916463.6/85

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -127.818 ± 327.859 $\chi^2/\text{NDF}: 19.0/17$

Left Out: 281.875 ± 180.423 $\chi^2/\text{NDF}: 26.7/24$

Right Out: -628.939 ± 329.551 $\chi^2/\text{NDF}: 17.3/19$

Left In: -8.211 ± 183.382 $\chi^2/\text{NDF}: 20.2/22$

Left: 139.190 ± 128.612 $\chi^2/\text{NDF}: 48.2/47$

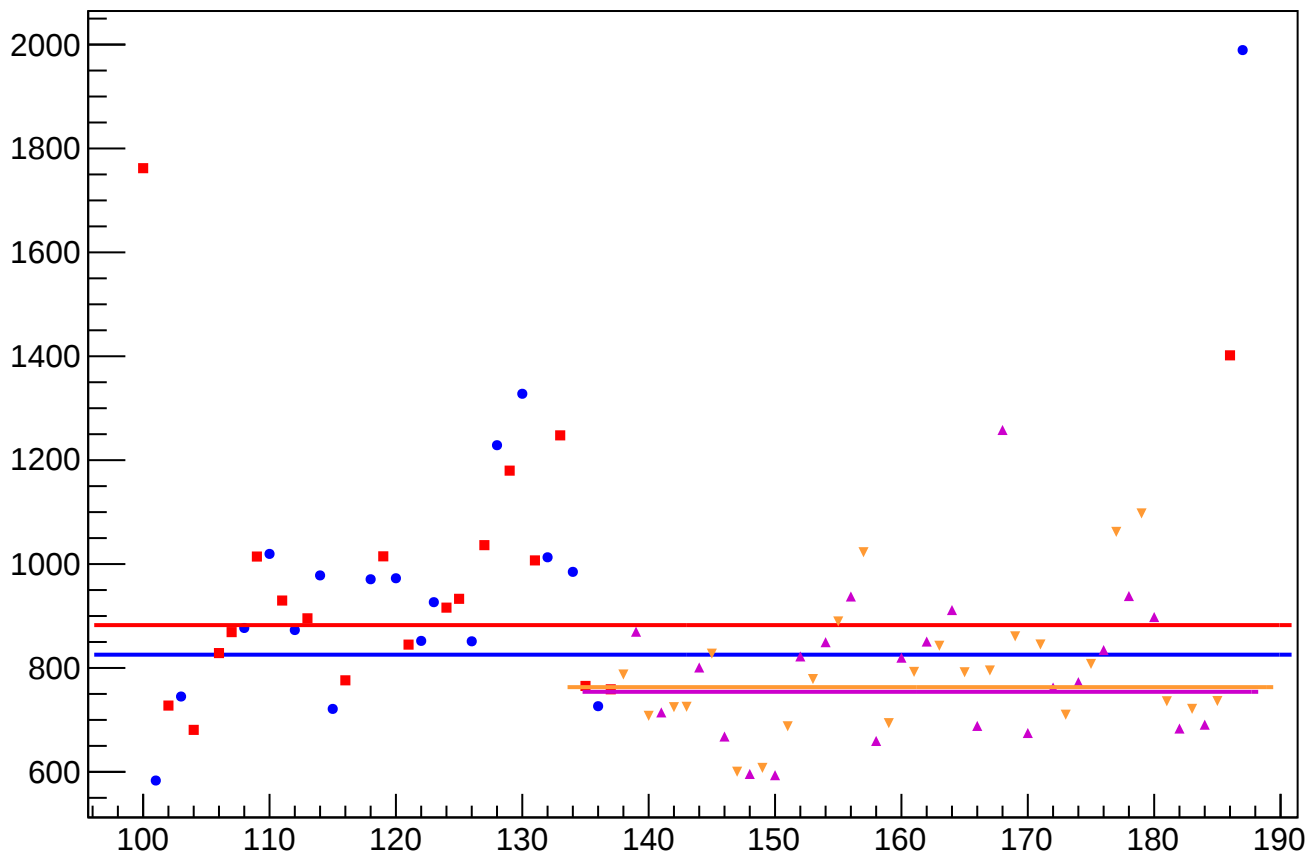
Right: -377.089 ± 232.427 $\chi^2/\text{NDF}: 37.5/37$

In: -36.713 ± 160.047 $\chi^2/\text{NDF}: 39.3/40$

Out: 71.829 ± 158.258 $\chi^2/\text{NDF}: 49.9/44$

All: 18.168 ± 112.532 $\chi^2/\text{NDF}: 89.5/85$

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 825.561 ± 0.232 χ^2/NDF : 669472.9/17

Left Out: 763.085 ± 0.128 χ^2/NDF : 753700.1/24

Right Out: 882.487 ± 0.233 χ^2/NDF : 512343.9/19

Left In: 754.099 ± 0.130 χ^2/NDF : 931829.3/22

Left: 758.665 ± 0.091 χ^2/NDF : 1687969.6/47

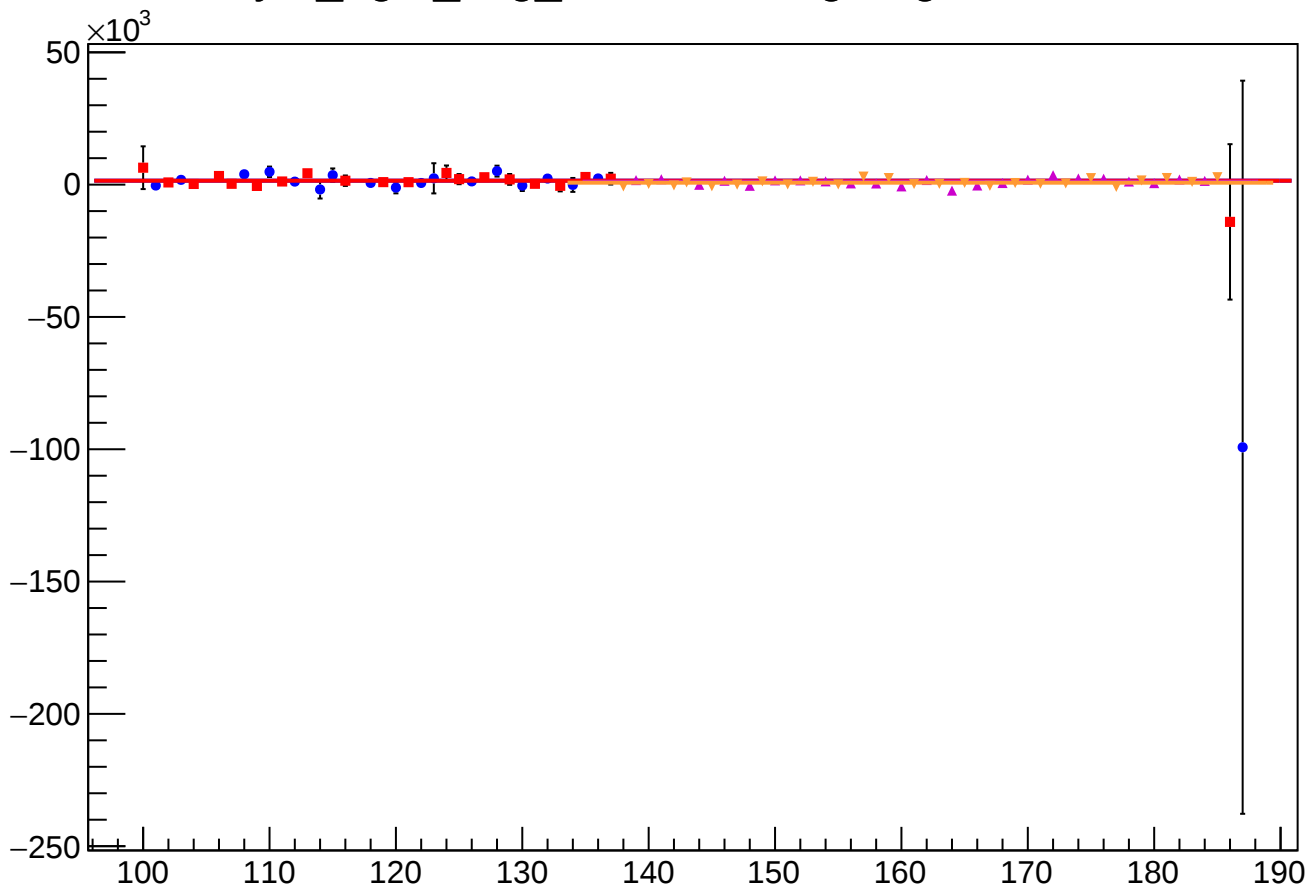
Right: 853.878 ± 0.164 χ^2/NDF : 1211808.5/37

In: 771.128 ± 0.113 χ^2/NDF : 1673678.9/40

Out: 790.621 ± 0.112 χ^2/NDF : 1468045.7/44

All: 780.984 ± 0.080 χ^2/NDF : 3156724.4/85

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: 1484.857 $\pm$ 400.681 χ^2 /NDF: 12.3/19

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

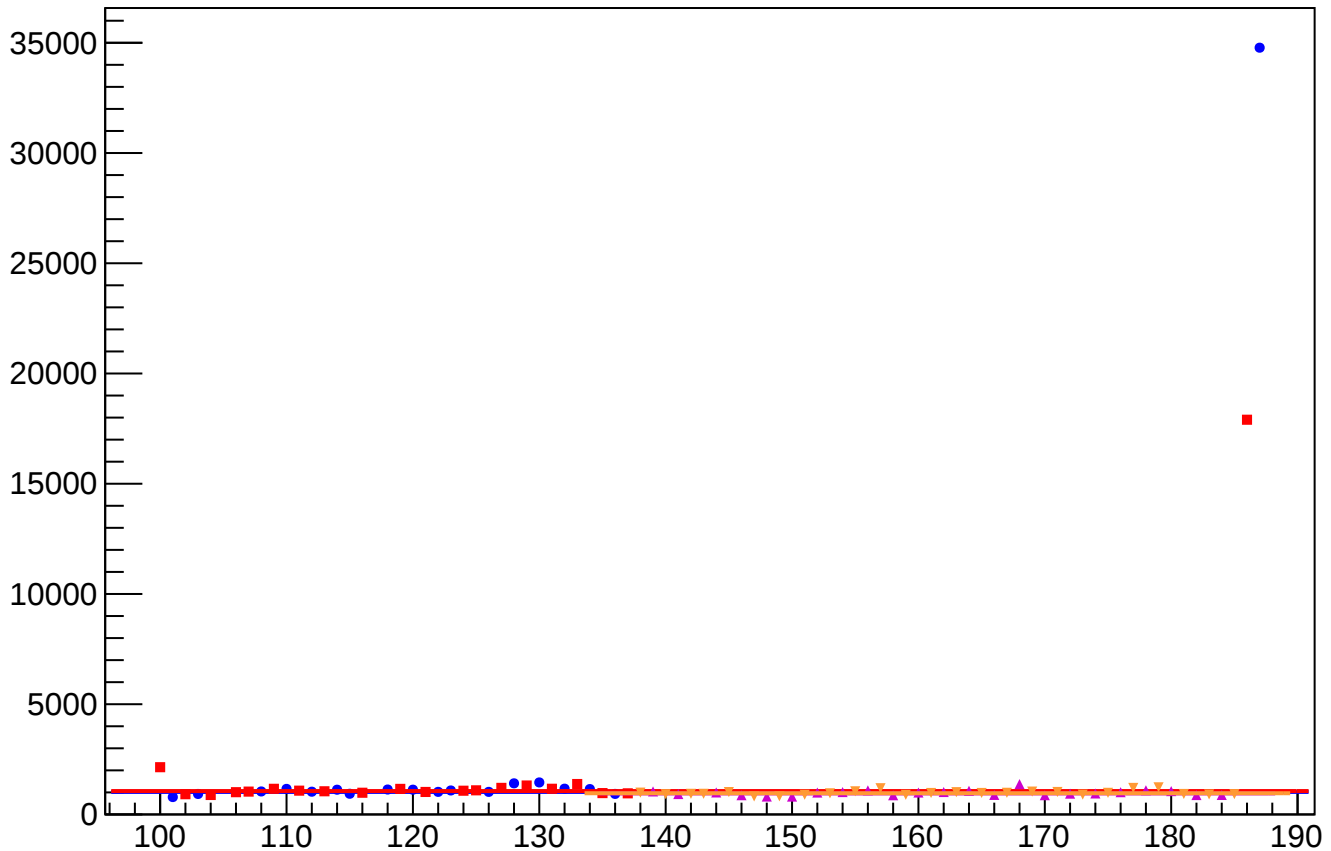
Right: 1490.956 $\pm$ 284.023 χ^2 /NDF: 29.9/37

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

Out: 918.942 $\pm$ 196.539 χ^2 /NDF: 36.5/44

All: 1065.190 $\pm$ 140.098 χ^2 /NDF: 81.2/85

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: 1061.037+/-0.283 χ^2/NDF : 890384.5/19

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

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

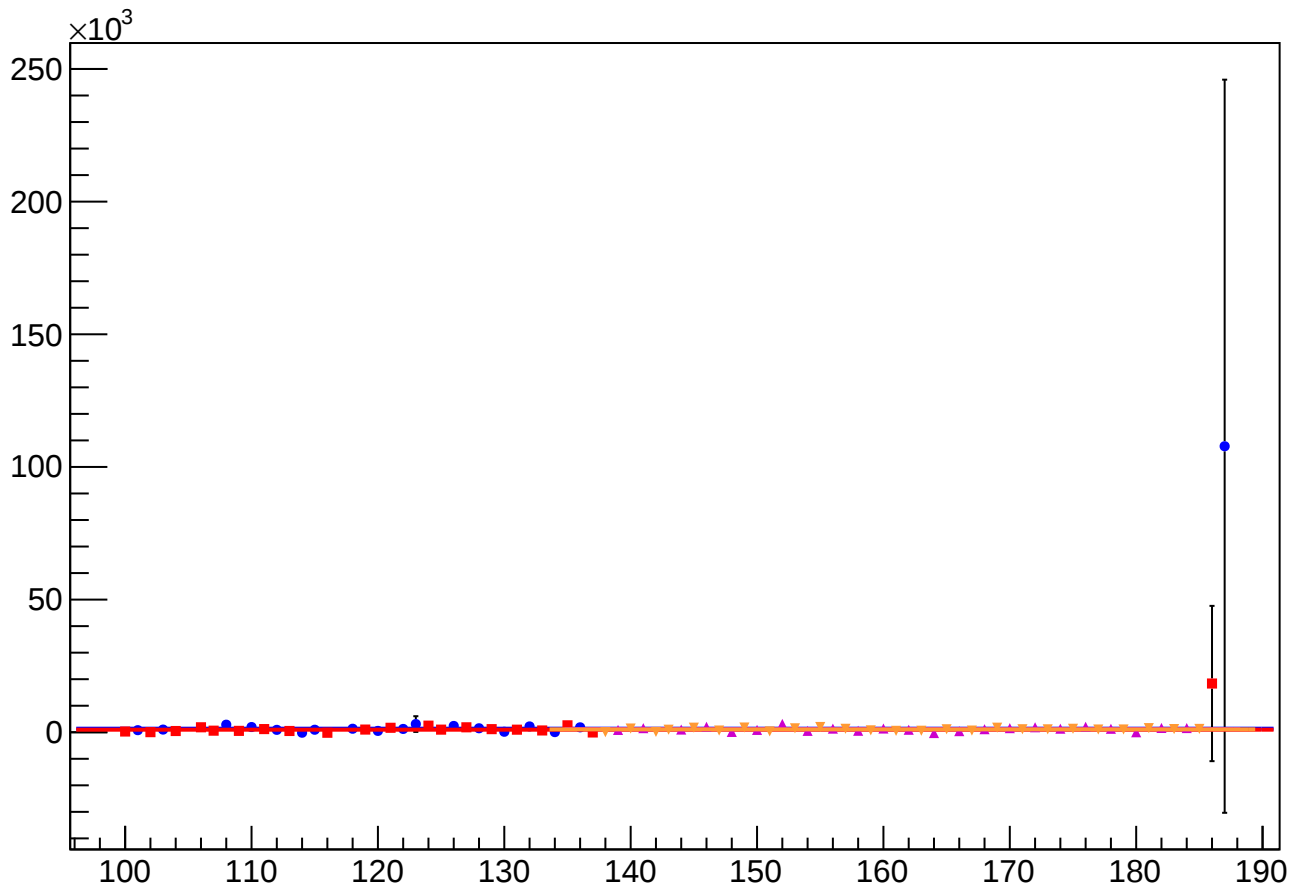
Right: 1041.769+/-0.201 χ^2/NDF : 1361048.0/37

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

Out: 986.023+/-0.139 χ^2/NDF : 1345632.2/44

All: 978.779+/-0.099 χ^2/NDF : 2298499.3/85

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: 966.323 $\pm$ 208.609 χ^2/NDF : 12.6/19

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

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

Right: 1146.908 $\pm$ 151.001 χ^2/NDF : 26.7/37

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

Out: 1053.763 $\pm$ 110.221 χ^2/NDF : 27.8/44

All: 1139.872 $\pm$ 79.191 χ^2/NDF : 74.1/85

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: 555.341+/-0.148 χ^2/NDF : 829782.8/19

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

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

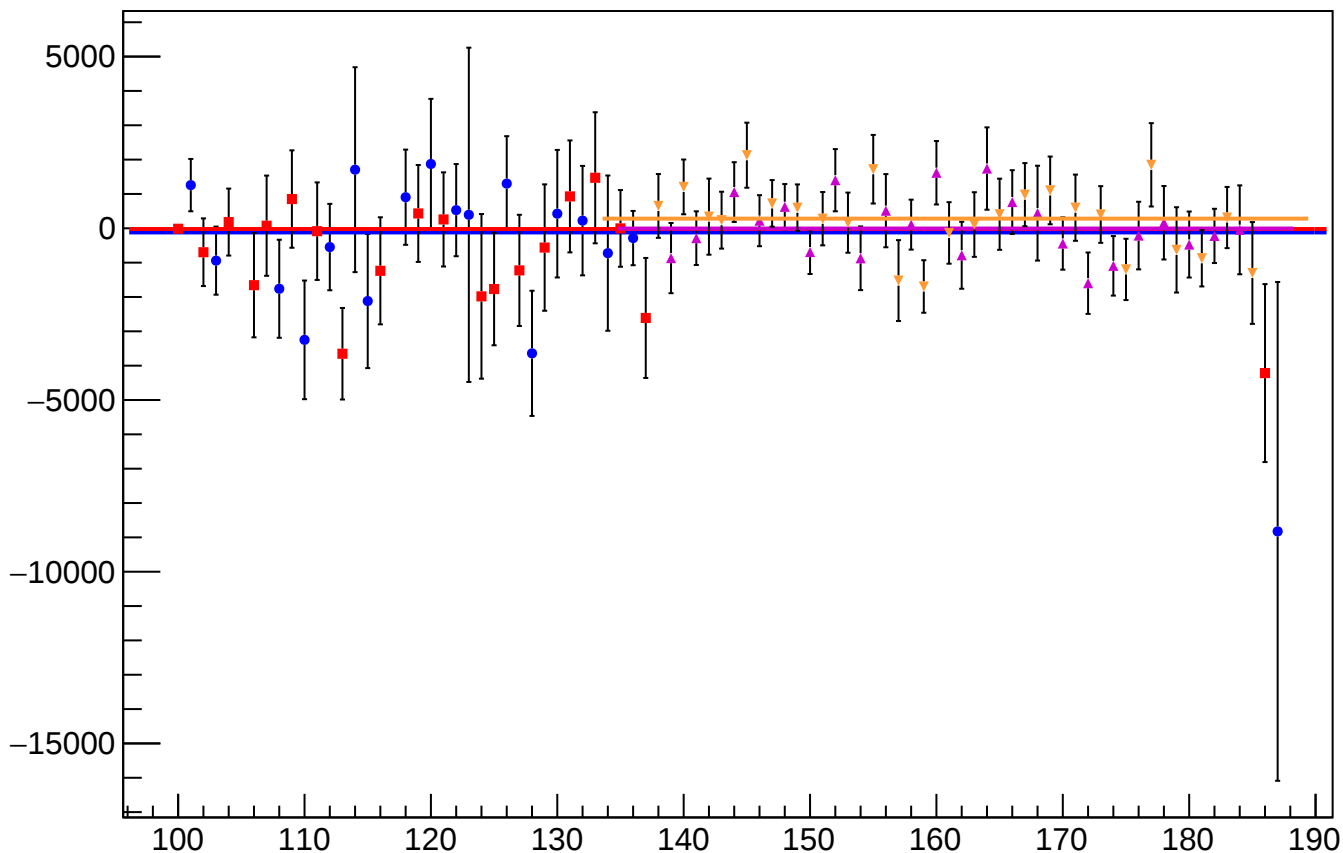
Right: 559.589+/-0.107 χ^2/NDF : 972392.7/37

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

Out: 557.329+/-0.078 χ^2/NDF : 844820.1/44

All: 558.331+/-0.056 χ^2/NDF : 998660.5/85

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -120.338+/-328.031 χ^2/NDF : 18.5/17

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

Right Out: -21.028+/-38.951 χ^2/NDF : 18.5/19

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

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

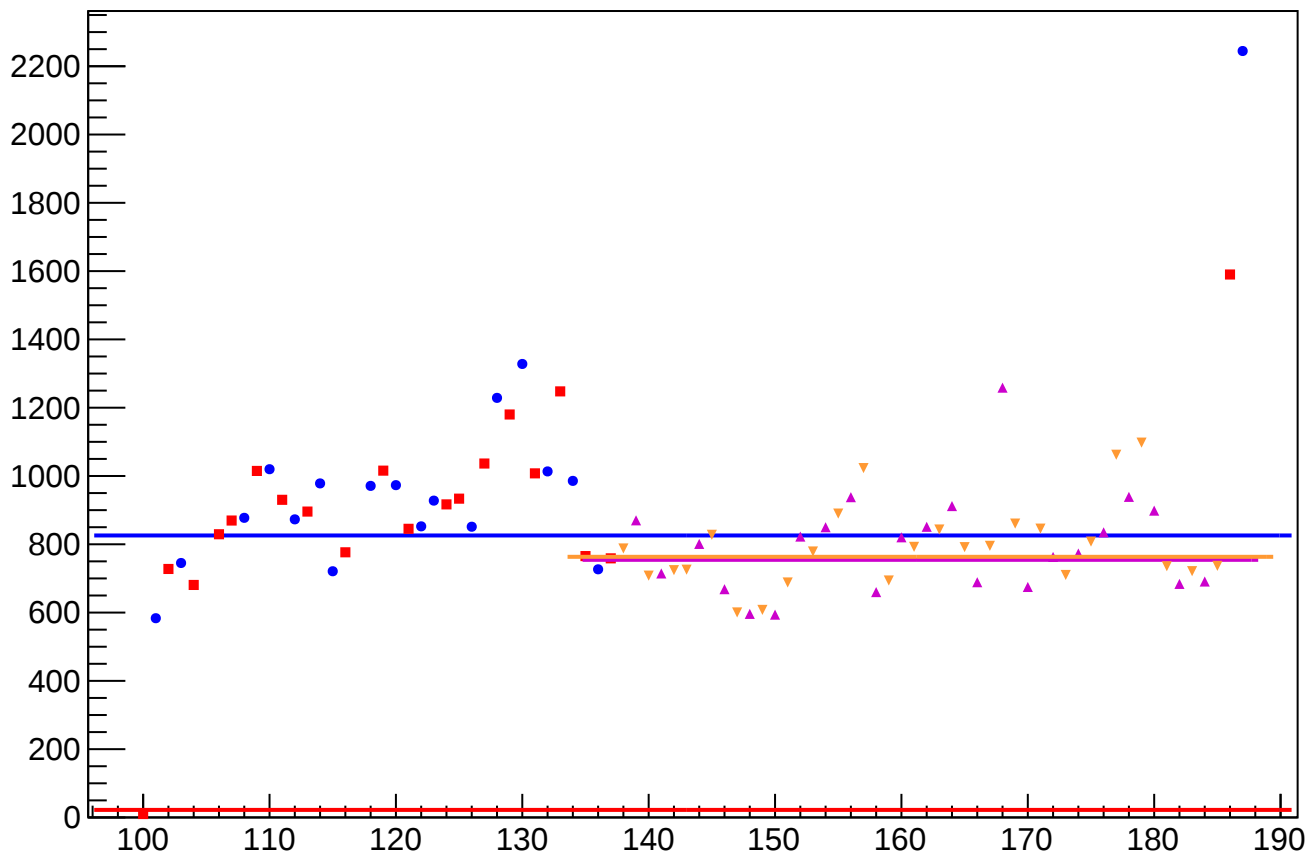
Right: -22.409+/-38.679 χ^2/NDF : 37.1/37

In: -34.240+/-160.128 χ^2/NDF : 38.7/40

Out: -7.568+/-38.074 χ^2/NDF : 48.0/44

All: -8.995+/-37.041 χ^2/NDF : 86.7/85

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 825.815 $\pm$ 0.232 χ^2 /NDF: 683144.6/17

Left Out: 763.307 $\pm$ 0.128 χ^2 /NDF: 753728.9/24

Right Out: 22.125 $\pm$ 0.028 χ^2 /NDF: 14210647.0/19

Left In: 754.483 $\pm$ 0.130 χ^2 /NDF: 931536.8/22

Left: 758.967 $\pm$ 0.091 χ^2 /NDF: 1687616.8/47

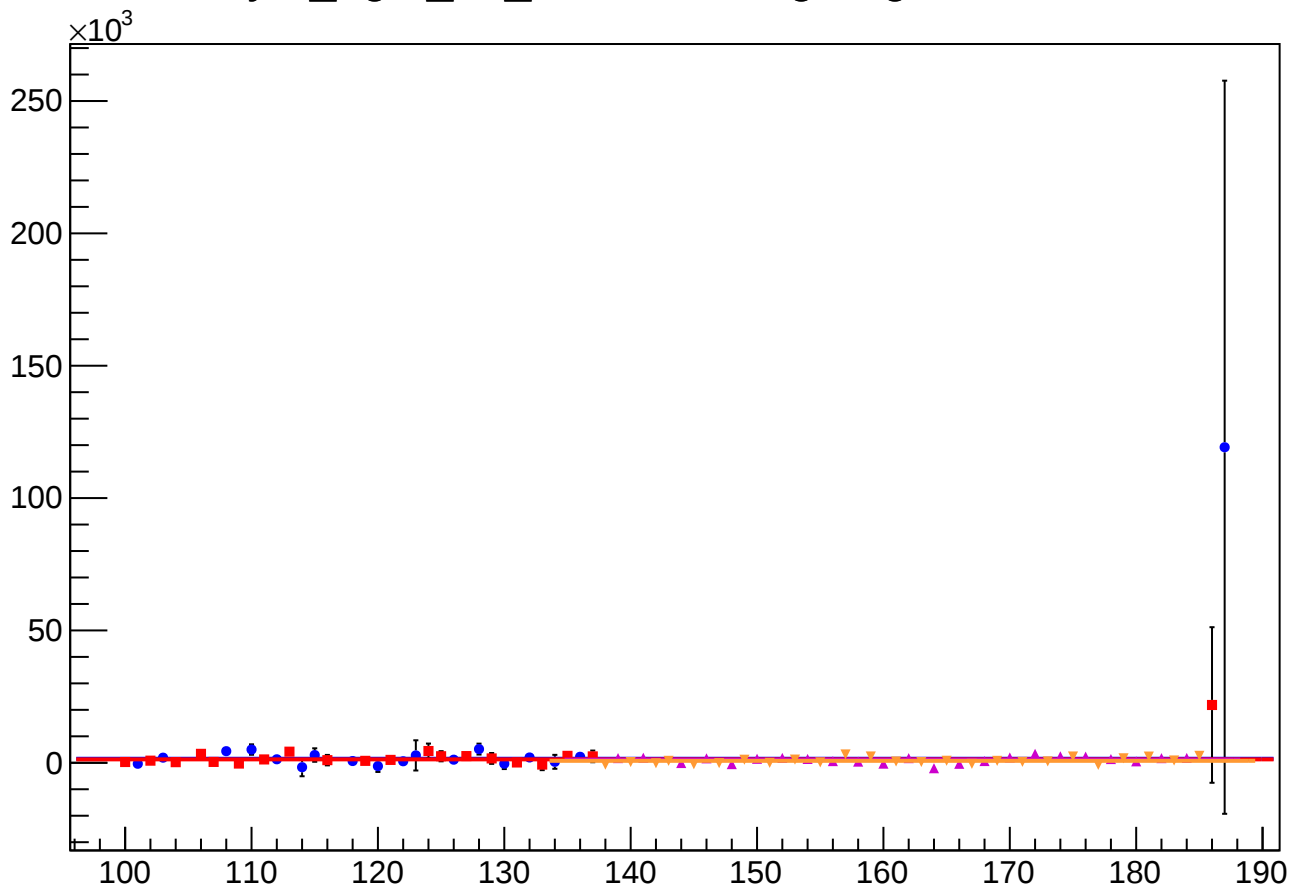
Right: 33.299 $\pm$ 0.027 χ^2 /NDF: 26732303.3/37

In: 771.481 $\pm$ 0.113 χ^2 /NDF: 1686720.0/40

Out: 55.112 $\pm$ 0.027 χ^2 /NDF: 47194220.7/44

All: 93.445 $\pm$ 0.026 χ^2 /NDF: 86767436.2/85

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: 1290.912 $\pm$ 376.648 χ^2/NDF : 12.8/19

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

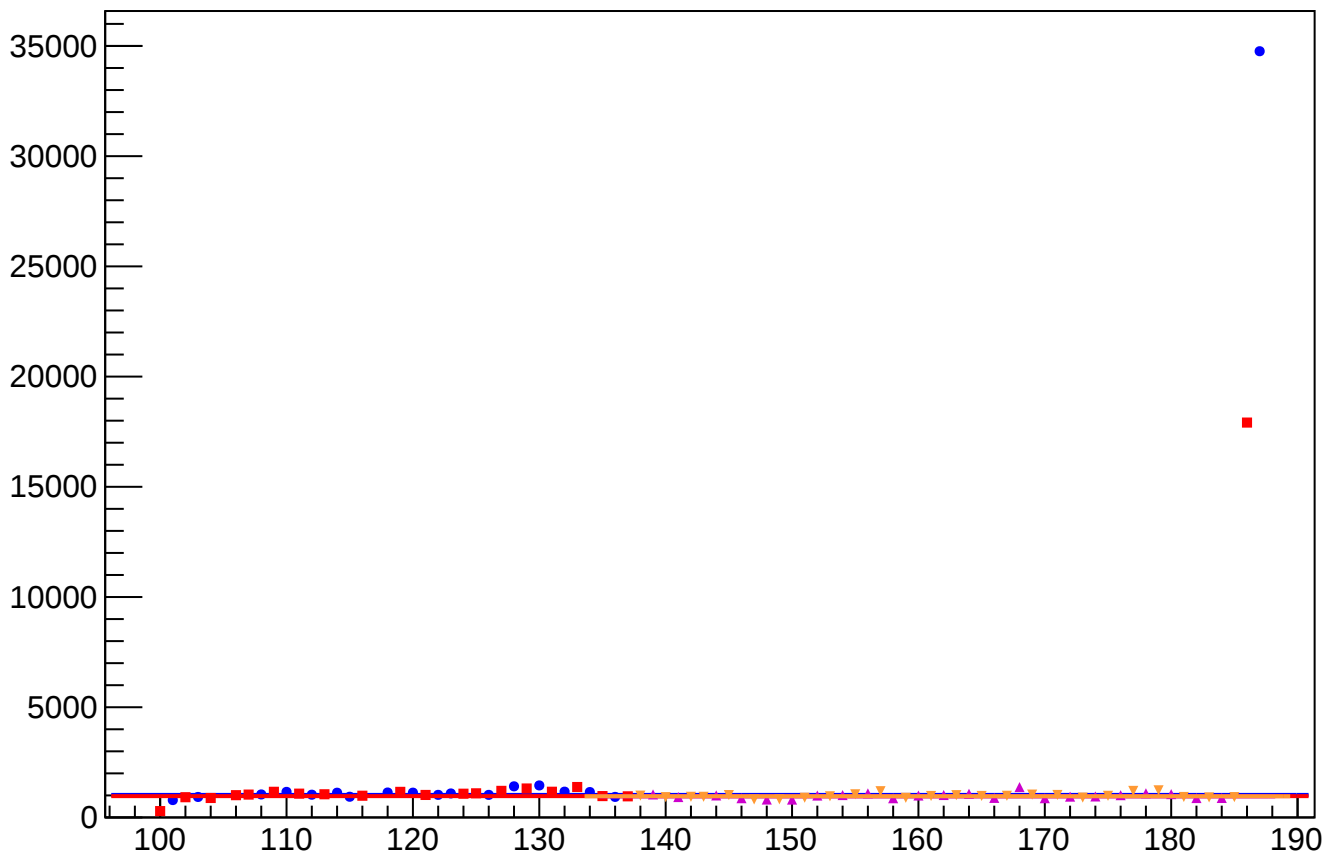
Right: 1397.978 $\pm$ 275.140 χ^2/NDF : 31.5/37

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

Out: 887.594 $\pm$ 193.575 χ^2/NDF : 34.7/44

All: 1068.311 $\pm$ 139.058 χ^2/NDF : 79.8/85

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: 966.933+/-0.266 χ^2/NDF : 1733943.7/19

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

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

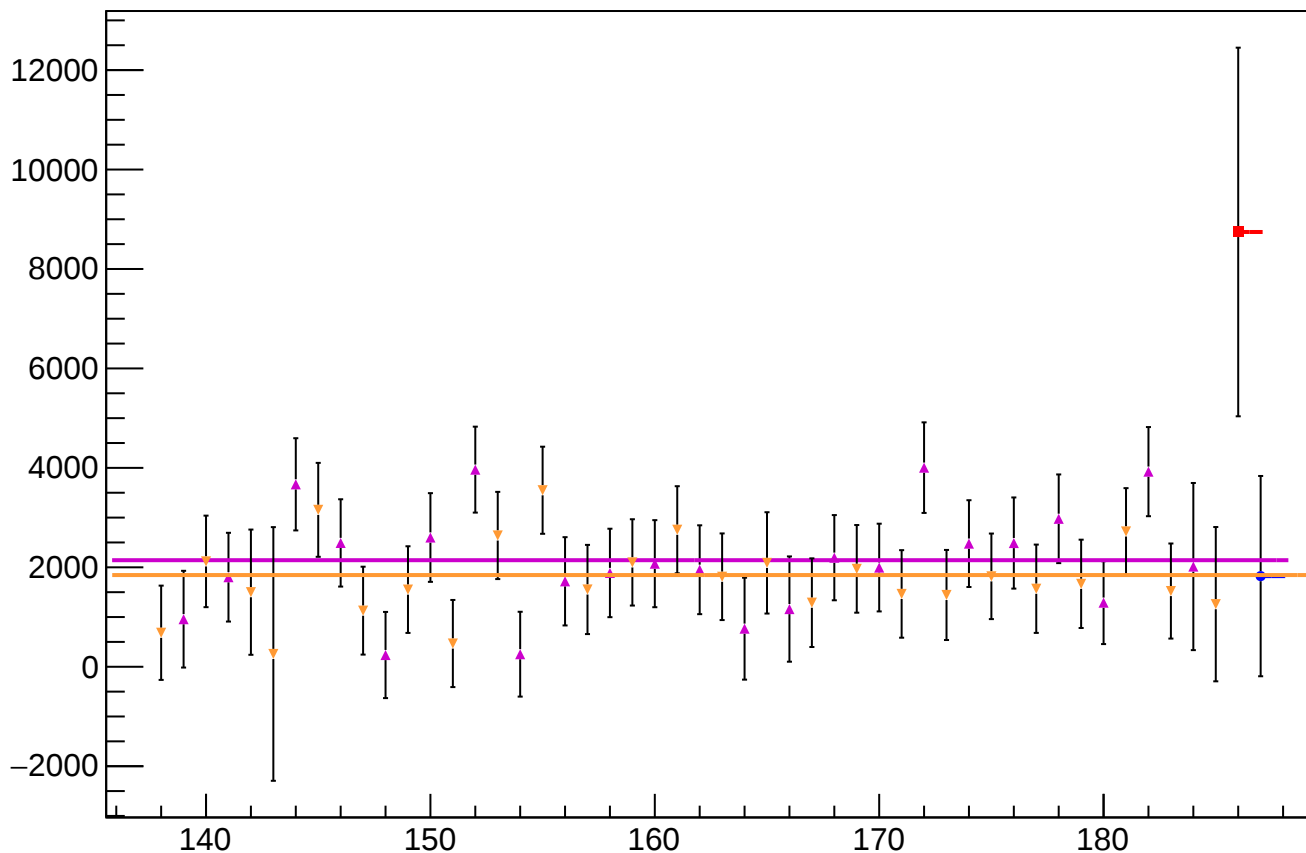
Right: 993.027+/-0.195 χ^2/NDF : 2215778.8/37

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

Out: 963.874+/-0.137 χ^2/NDF : 2096960.8/44

All: 967.787+/-0.098 χ^2/NDF : 3045356.5/85

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: 8744.107+/-3706.906 χ^2/NDF : 0.0/0

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

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

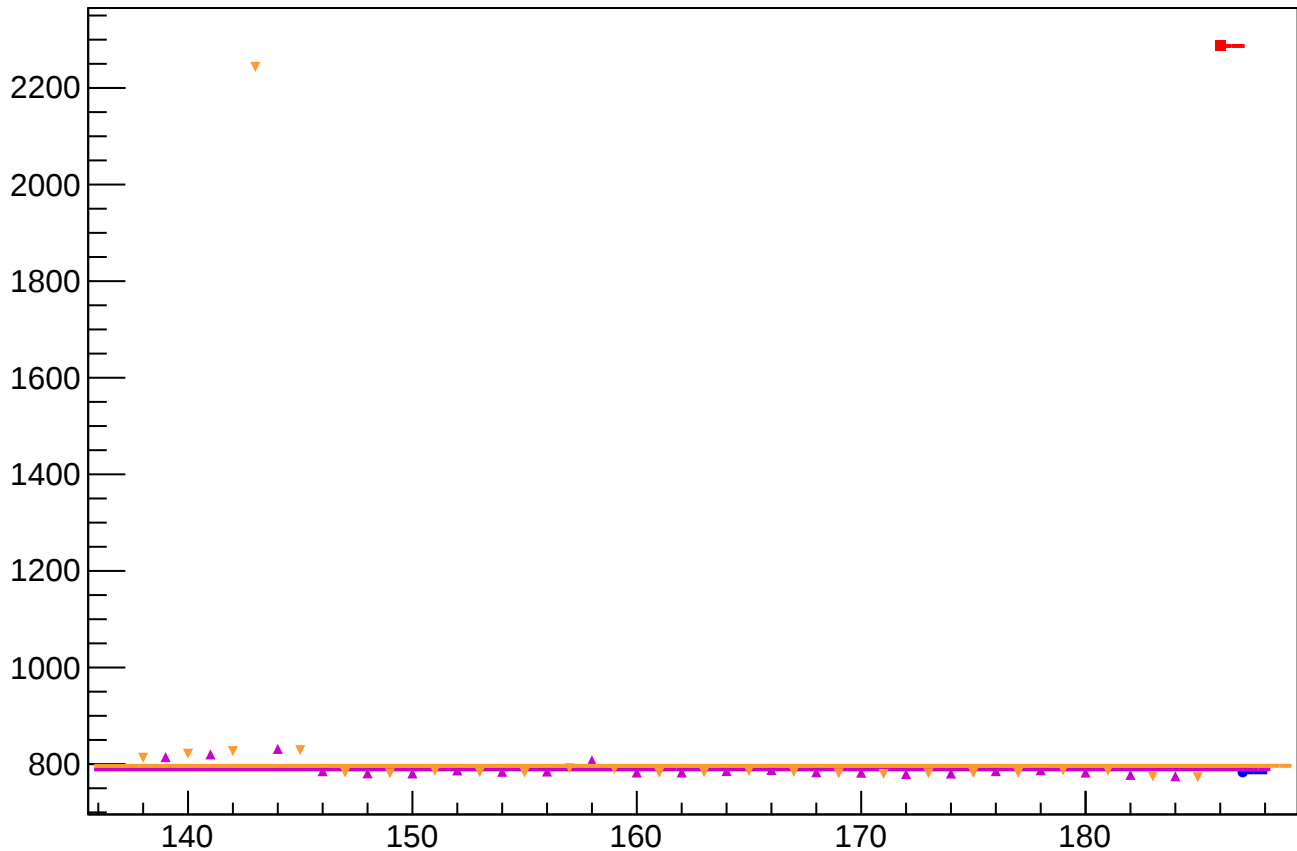
Right: 3400.487+/-1769.691 χ^2/NDF : 2.7/1

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

Out: 1861.858+/-186.672 χ^2/NDF :18.8/25

All: 1999.192+/-132.917 χ^2/NDF : 52.3/49

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 783.103+/-1.424 χ^2/NDF : 0.0/0

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

Right Out: 2287.028+/-2.621 χ^2/NDF : 0.0/0

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

Left: 792.886+/-0.094 χ^2/NDF : 671086.4/47

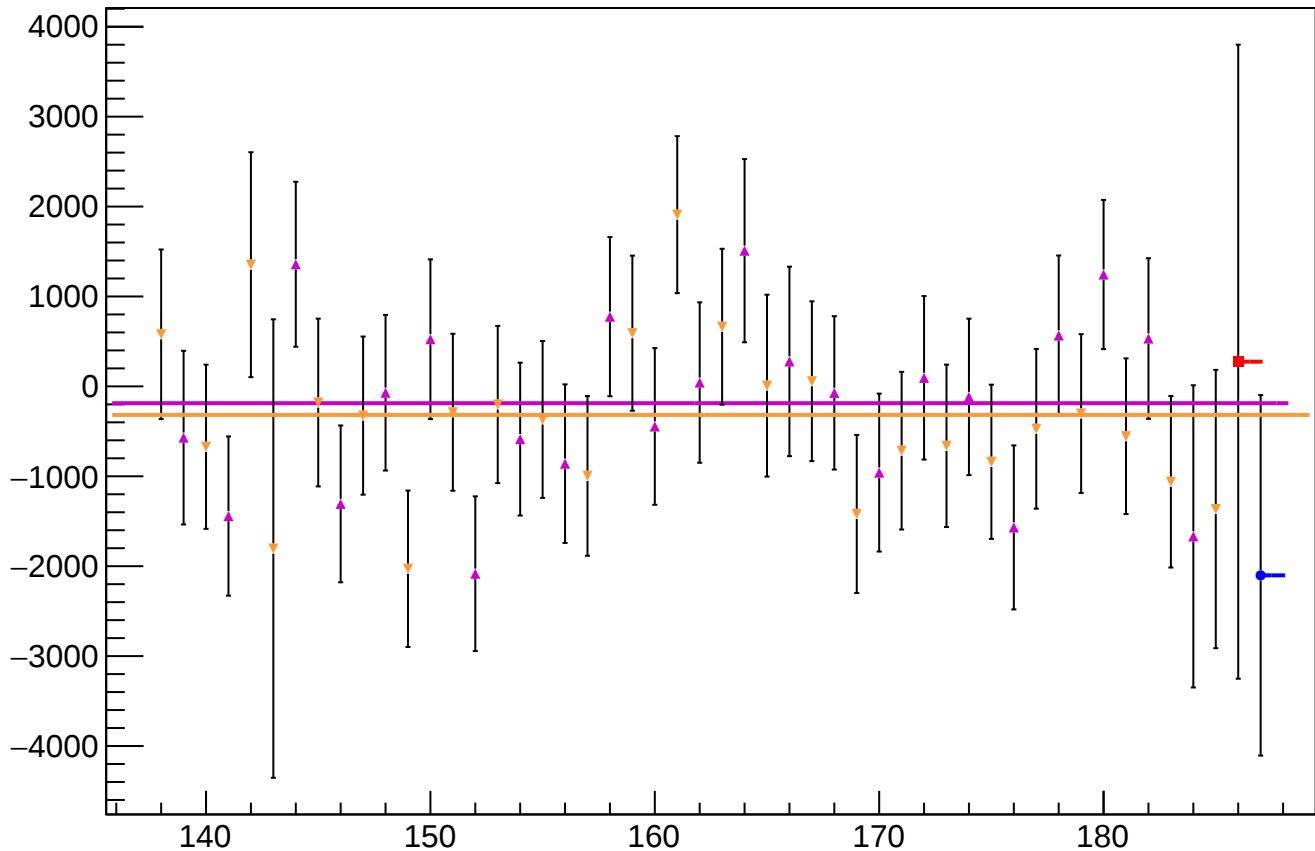
Right: 1125.869+/-1.251 χ^2/NDF : 254169.9/1

In: 789.123+/-0.134 χ^2/NDF : 10878.4/23

Out: 800.250+/-0.132 χ^2/NDF : 981282.7/25

All: 794.764+/-0.094 χ^2/NDF : 995664.6/49

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: 274.526 $\pm$ 3525.993 χ^2 /NDF: 0.0/0

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

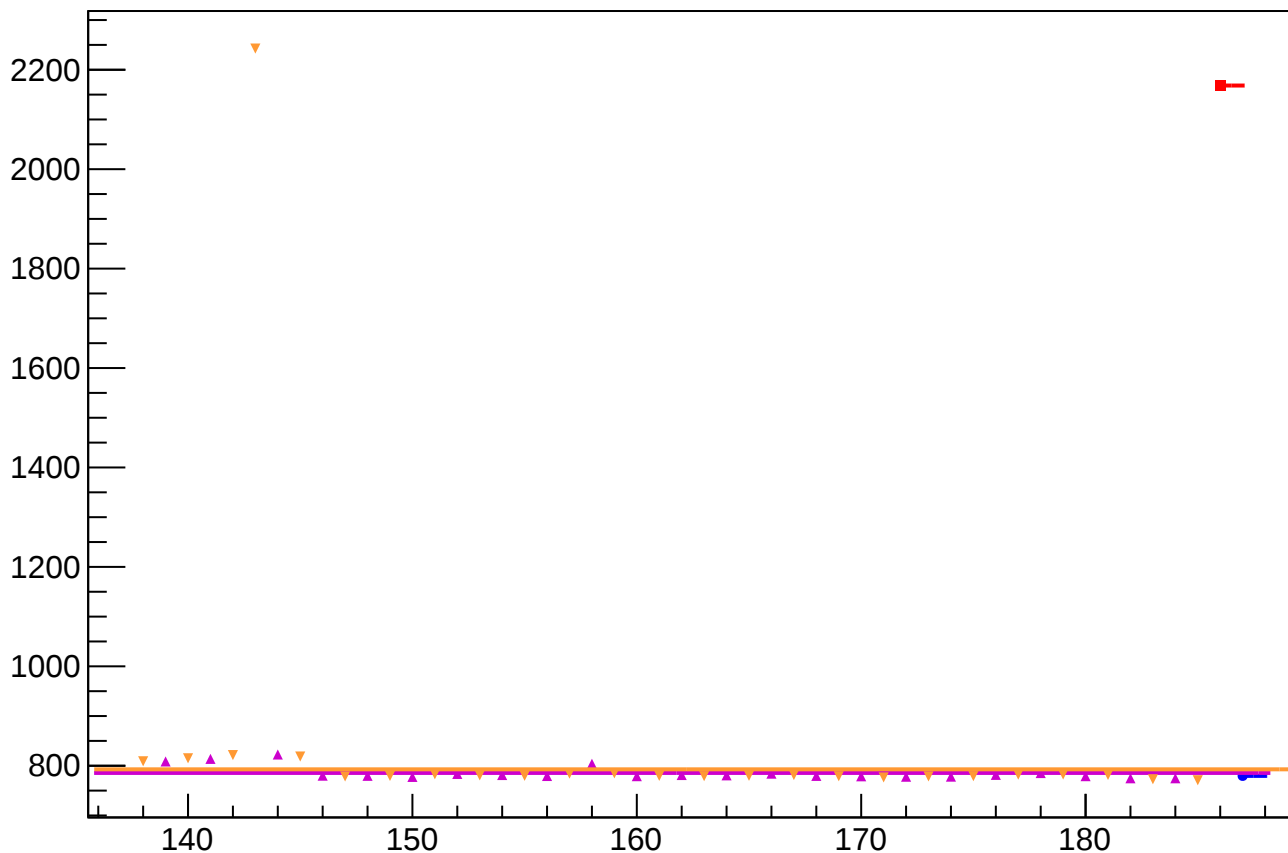
Right: -1521.298 $\pm$ 1742.919 χ^2 /NDF: 0.3/1

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

Out: -315.968 $\pm$ 185.787 χ^2 /NDF:20.3/25

All: -260.782 $\pm$ 132.295 χ^2 /NDF: 47.0/49

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: 2168.262+/-2.493 χ^2/NDF : 0.0/0

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

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

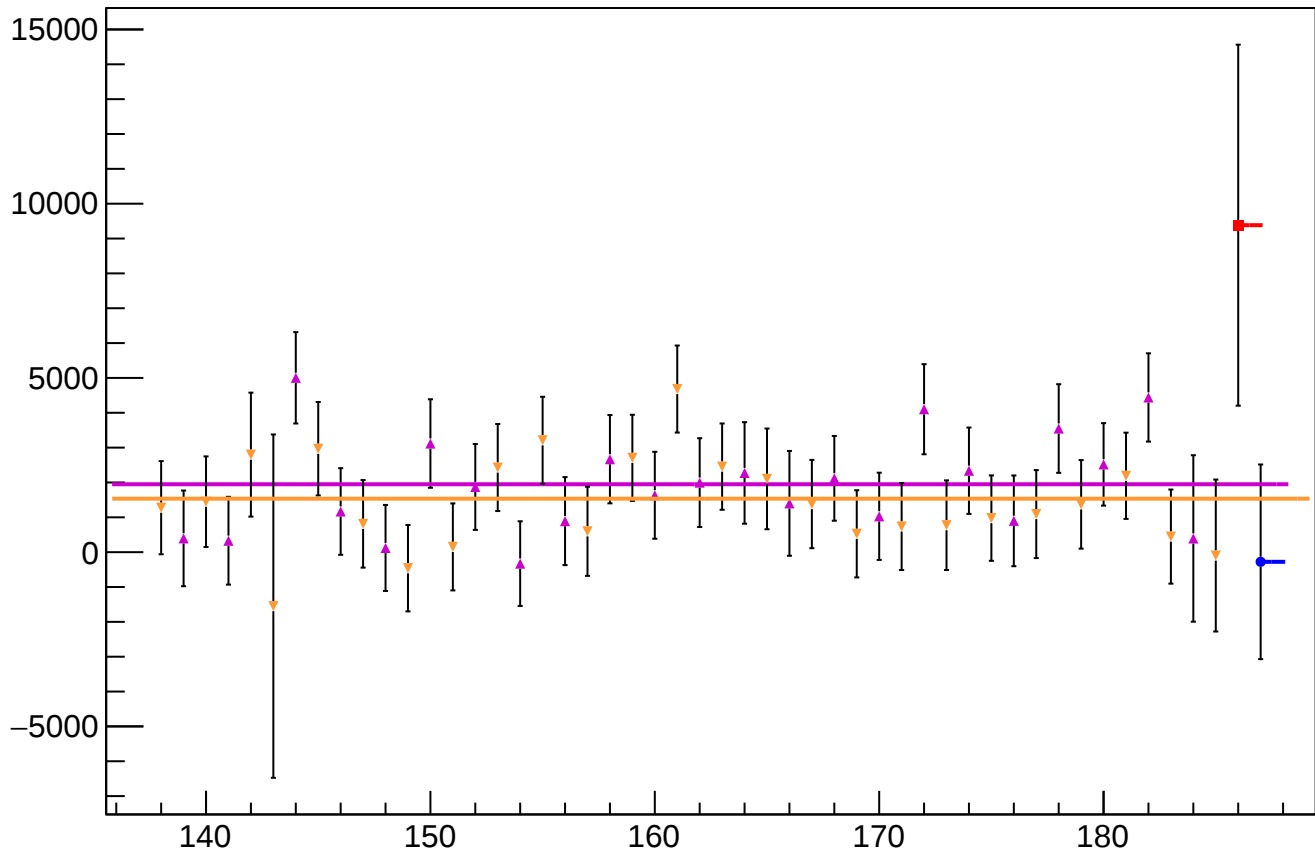
Right: 1118.926+/-1.232 χ^2/NDF : 234406.0/1

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

Out: 796.630+/-0.131 χ^2/NDF : 963002.6/25

All: 791.148+/-0.094 χ^2/NDF : 975584.9/49

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: 9383.501+/-5180.036 χ^2/NDF : 0.0/0

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

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

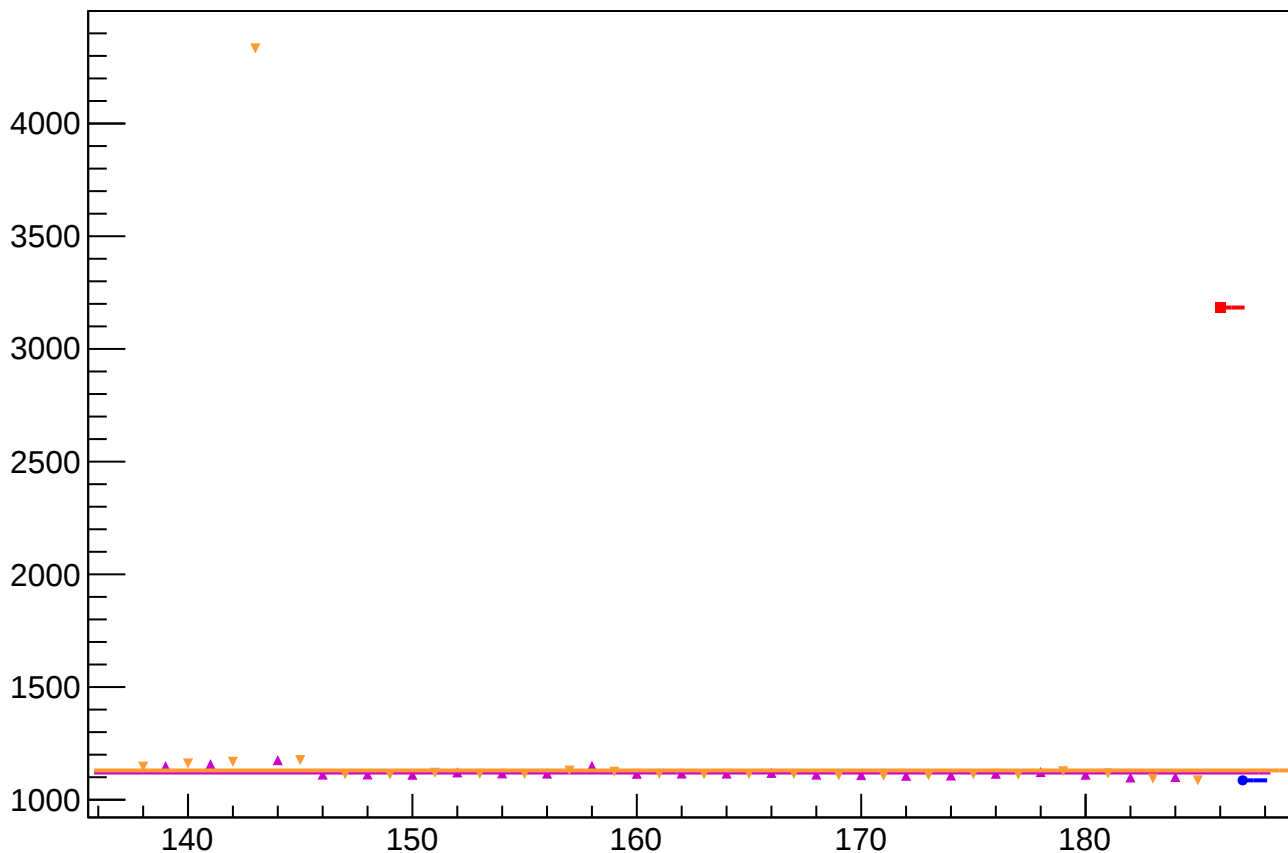
Right: 1898.915+/-2458.521 χ^2/NDF : 2.7/1

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

Out: 1555.345+/-265.541 χ^2/NDF :22.6/25

All: 1739.606+/-188.916 χ^2/NDF : 51.0/49

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1086.094 $\pm$ 1.975 χ^2/NDF : 0.0/0

Left Out: 1129.937 $\pm$ 0.188 χ^2/NDF : 858269.9/24

Right Out: 3183.662 $\pm$ 3.663 χ^2/NDF : 0.0/0

Left In: 1120.977 $\pm$ 0.191 χ^2/NDF : 9259.6/22

Left: 1125.527 $\pm$ 0.134 χ^2/NDF : 868647.2/47

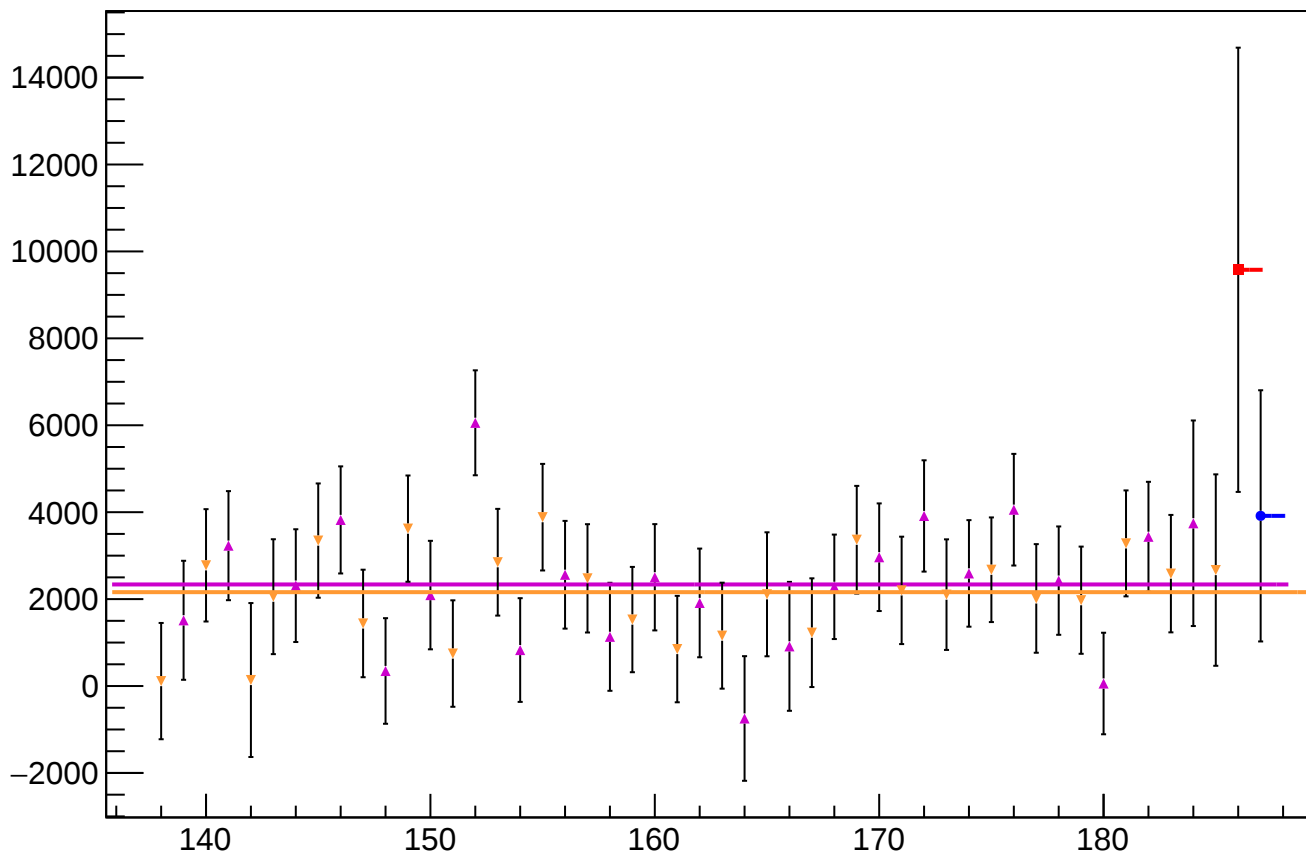
Right: 1558.590 $\pm$ 1.738 χ^2/NDF : 254069.9/1

In: 1120.654 $\pm$ 0.190 χ^2/NDF : 9568.7/23

Out: 1135.334 $\pm$ 0.188 χ^2/NDF : 1171819.6/25

All: 1128.084 $\pm$ 0.134 χ^2/NDF : 1184406.6/49

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: 9577.327 $\pm$ 5110.896 χ^2 /NDF: 0.0/0

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

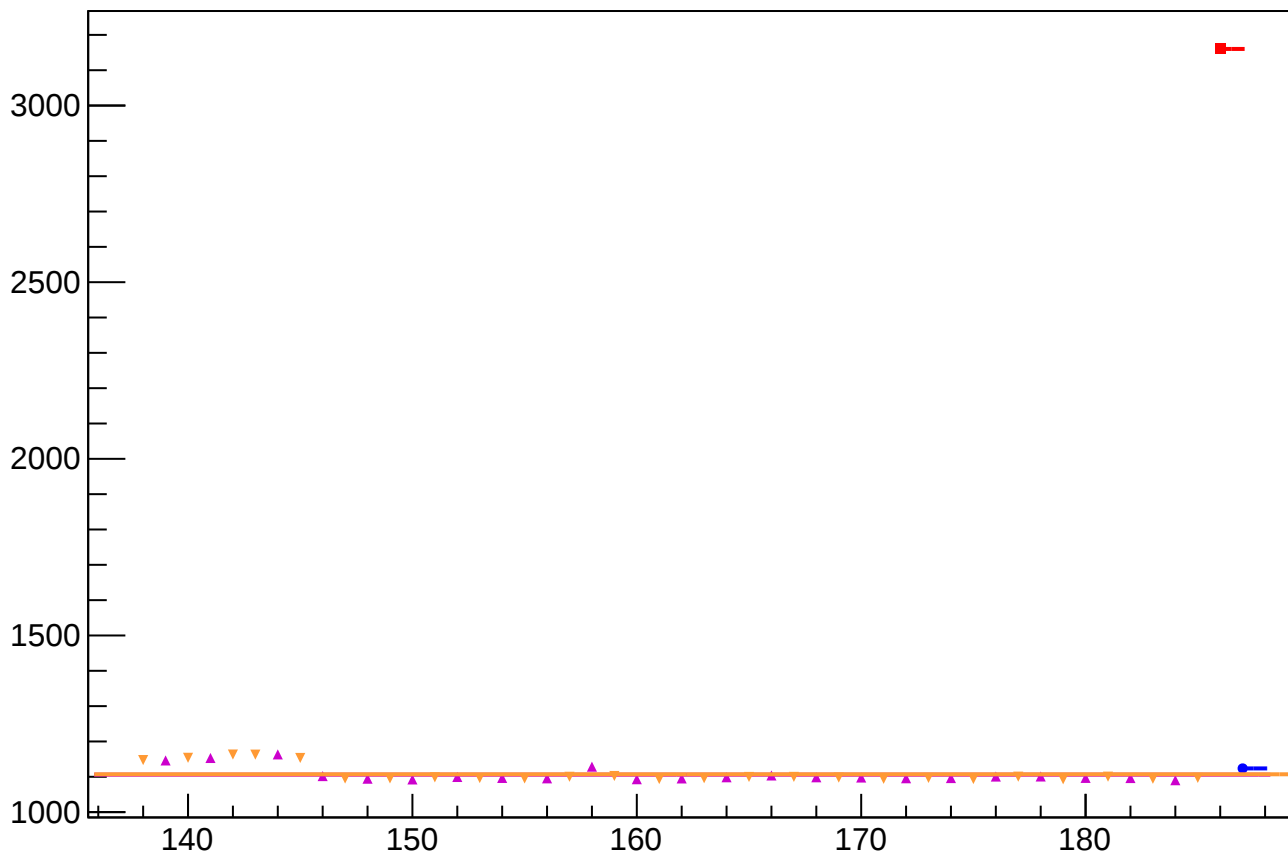
Right: 5287.197 $\pm$ 2515.635 χ^2 /NDF: 0.9/1

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

Out: 2178.664 $\pm$ 257.199 χ^2 /NDF:17.1/25

All: 2261.923 $\pm$ 184.679 χ^2 /NDF: 48.9/49

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: 3160.201 $\pm$ 3.614 χ^2/NDF : 0.0/0

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

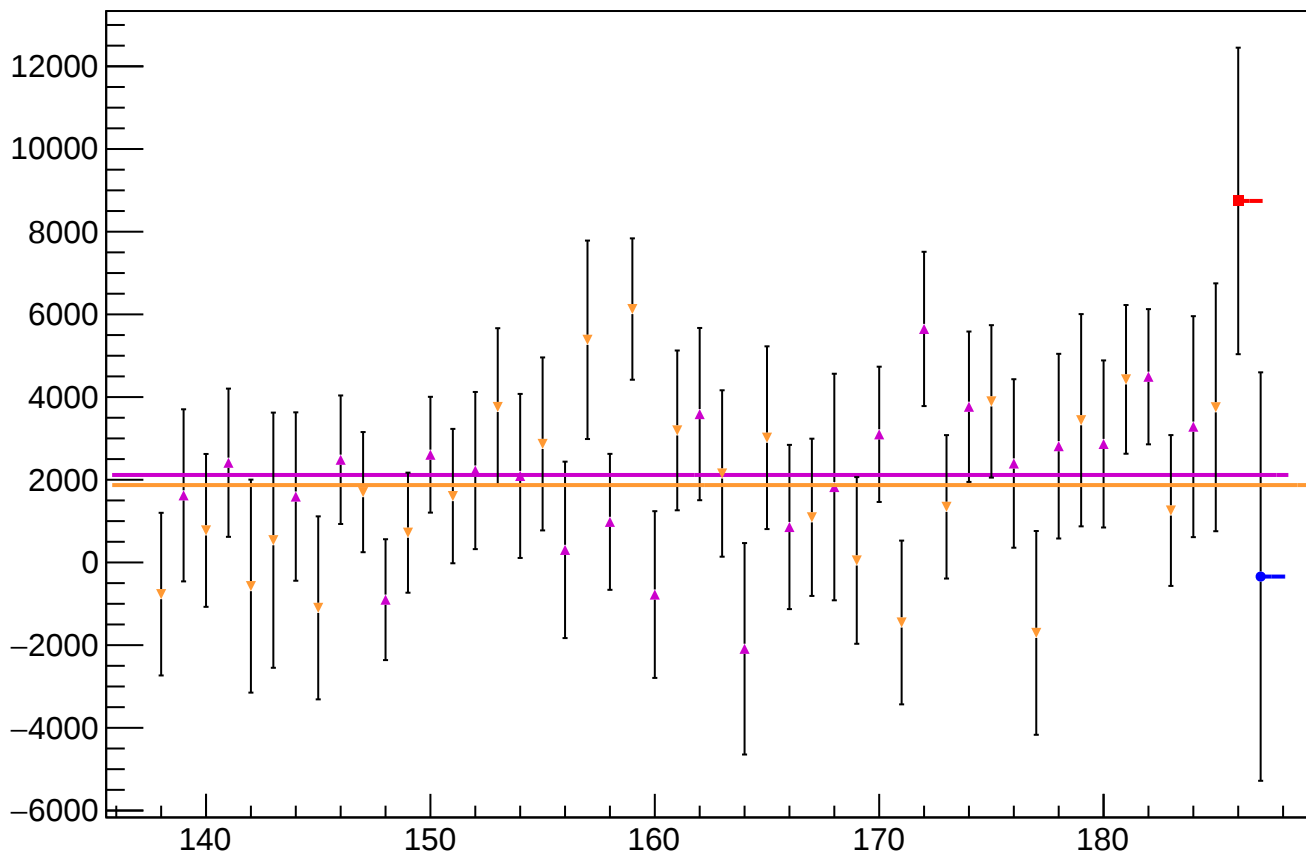
Right: 1617.093 $\pm$ 1.779 χ^2/NDF : 240610.4/1

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

Out: 1112.291 $\pm$ 0.182 χ^2/NDF : 337113.4/25

All: 1109.294 $\pm$ 0.131 χ^2/NDF : 348859.9/49

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: 8744.107+/-3706.906 χ^2/NDF : 0.0/0

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

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

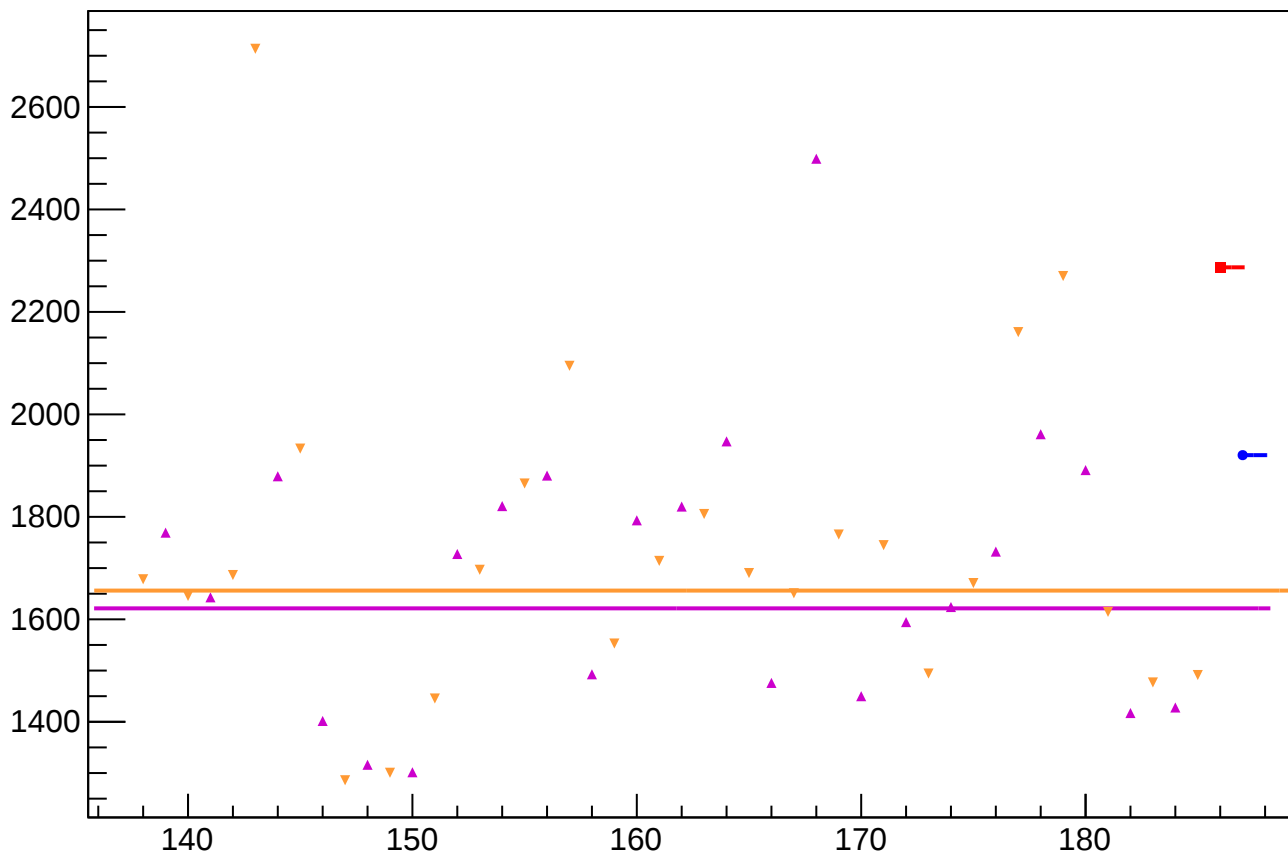
Right: 5470.939+/-2964.911 χ^2/NDF : 2.2/1

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

Out: 1947.520+/-389.515 χ^2/NDF :29.5/25

All: 2023.649+/-276.219 χ^2/NDF : 48.6/49

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: 2287.028+/-2.621 χ^2/NDF : 0.0/0

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

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

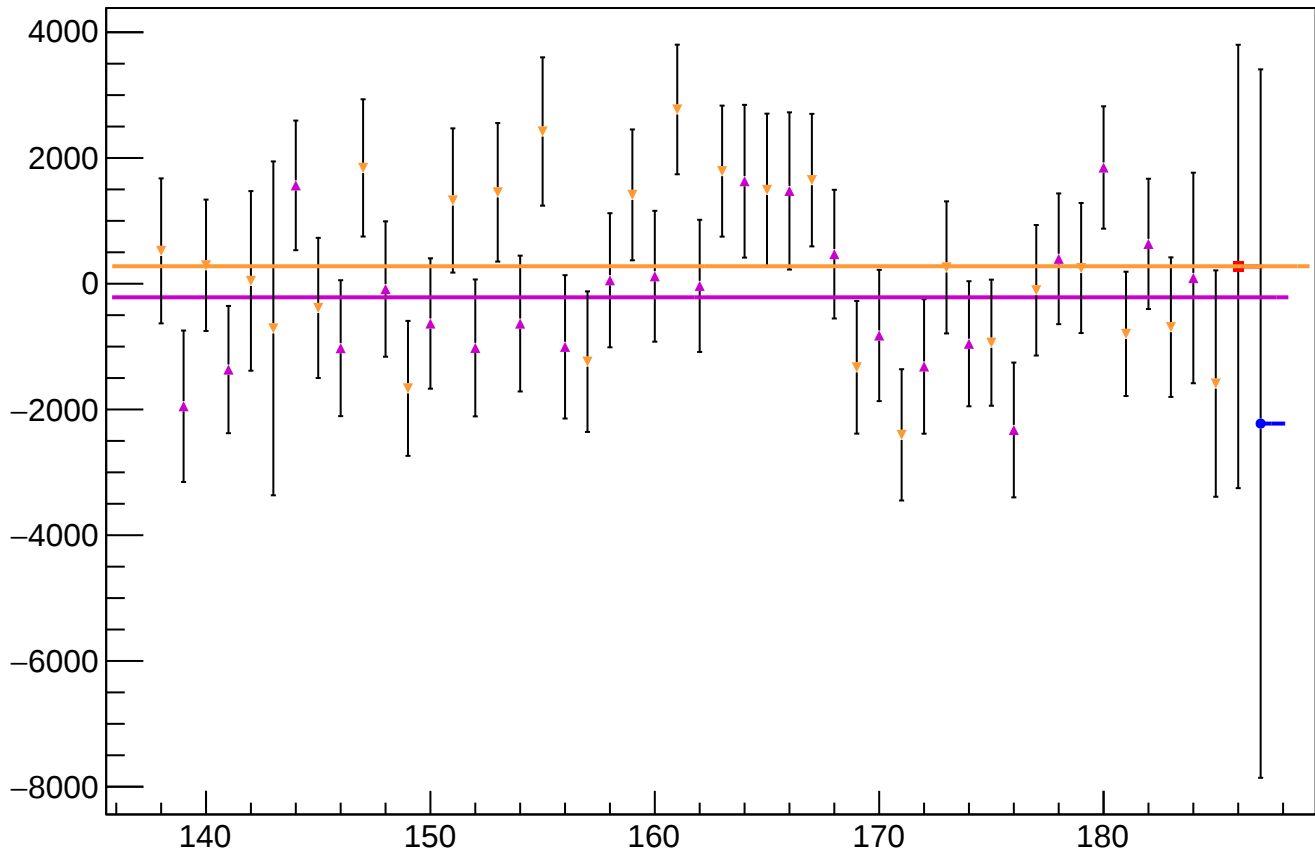
Right: 2154.963+/-2.097 χ^2/NDF : 7046.2/1

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

Out: 1663.085+/-0.275 χ^2/NDF : 967868.5/25

All: 1643.306+/-0.195 χ^2/NDF : 1760836.0/49

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2224.307+/-5634.016 χ^2/NDF : 0.0/0

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

Right Out: 274.526+/-3525.993 χ^2/NDF : 0.0/0

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

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

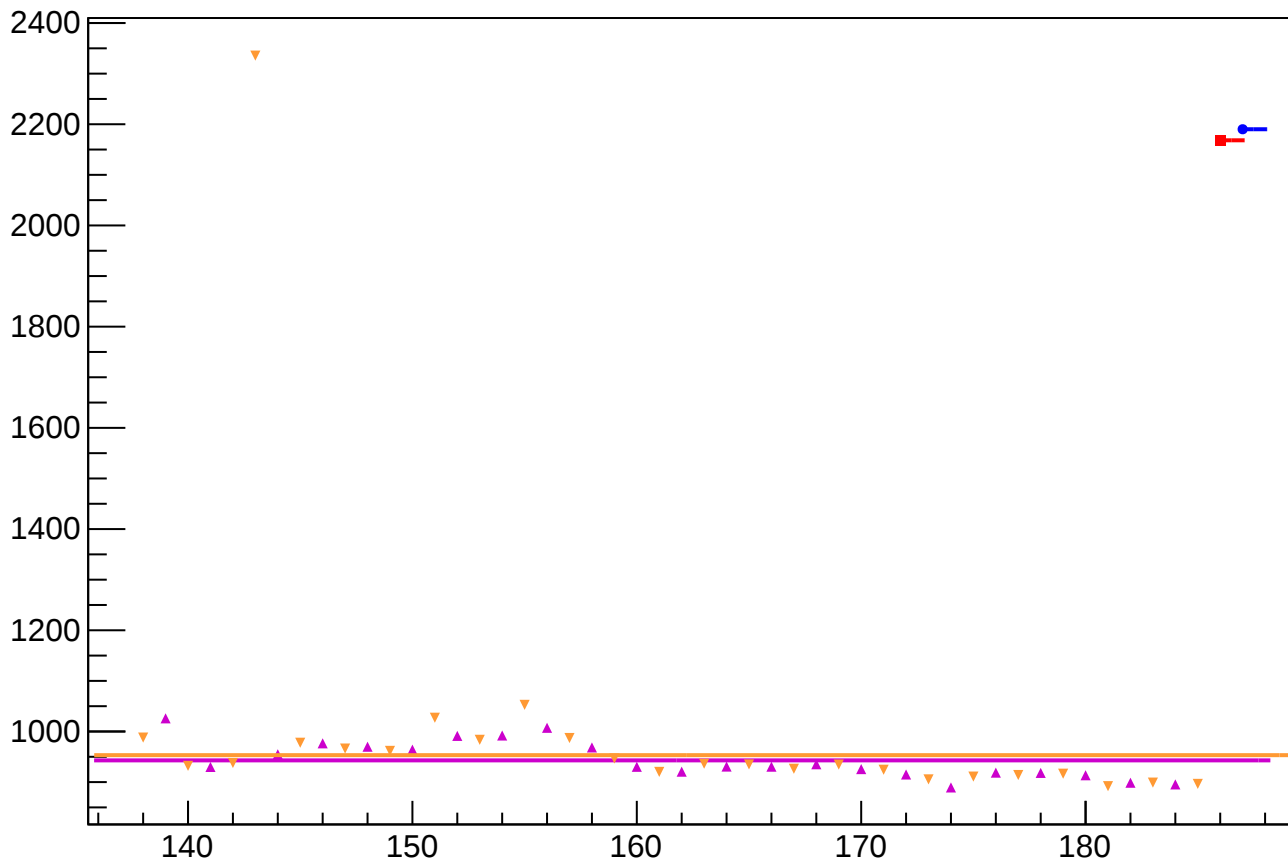
Right: -428.751+/-2988.907 χ^2/NDF : 0.1/1

In: -219.336+/-225.420 χ^2/NDF :24.5/23

Out: 278.076+/-223.133 χ^2/NDF :38.4/25

All: 31.906+/-158.581 χ^2/NDF : 65.4/49

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: 2168.262+/-2.493 χ^2/NDF : 0.0/0

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

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

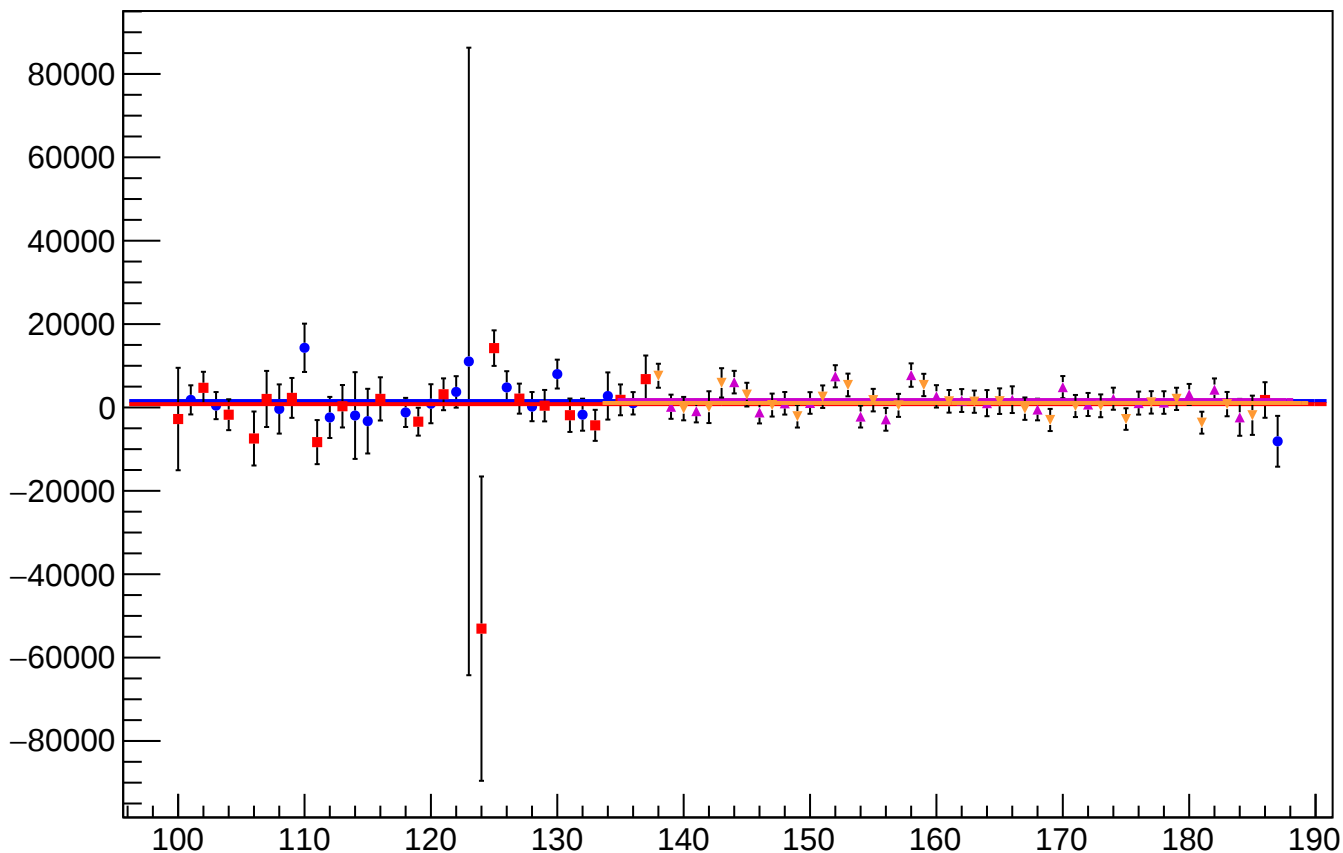
Right: 2174.410+/-2.113 χ^2/NDF : 21.6/1

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

Out: 958.087+/-0.158 χ^2/NDF : 842814.0/25

All: 951.572+/-0.112 χ^2/NDF : 992510.6/49

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: 797.292 $\pm$ 998.365 χ^2 /NDF: 24.2/19

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

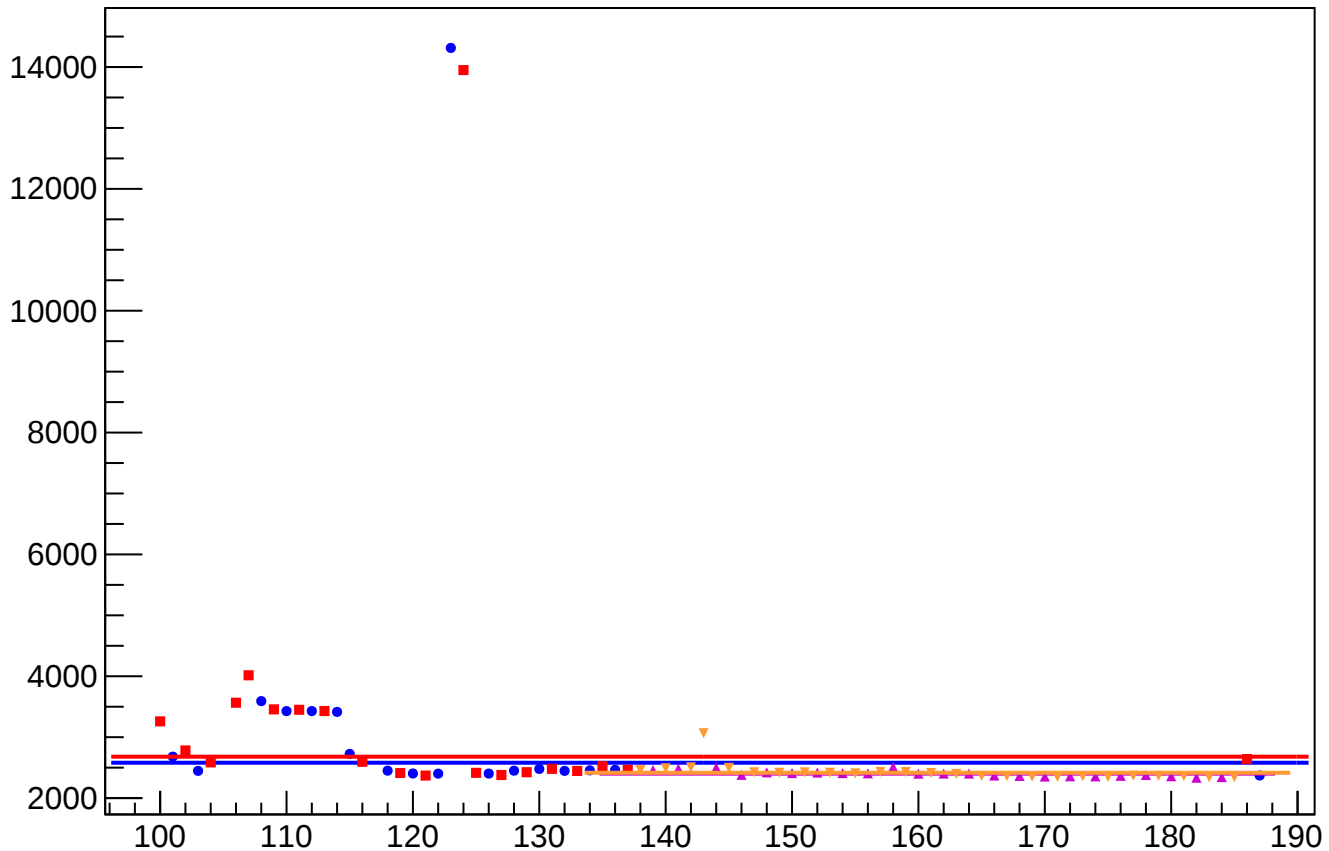
Right: 1167.318 $\pm$ 707.250 χ^2 /NDF: 39.3/37

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

Out: 1010.129 $\pm$ 491.063 χ^2 /NDF: 47.8/44

All: 1358.295 $\pm$ 350.113 χ^2 /NDF: 87.8/85

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: 2679.750+/-0.706 χ^2/NDF : 529241.6/19

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

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

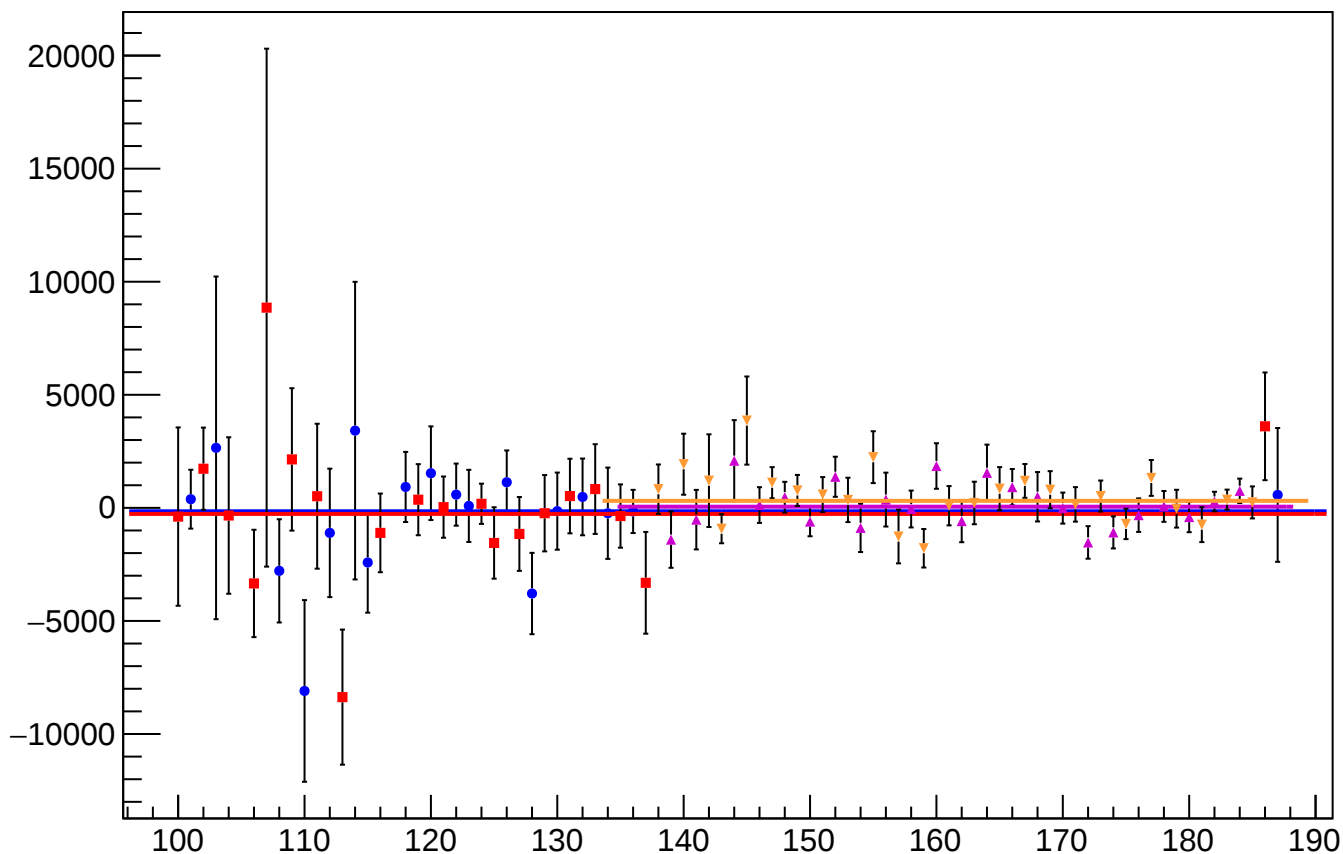
Right: 2630.348+/-0.500 χ^2/NDF : 795350.5/37

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

Out: 2479.824+/-0.347 χ^2/NDF : 717676.3/44

All: 2463.147+/-0.248 χ^2/NDF : 1040454.1/85

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: -152.111 ± 417.177 $\chi^2/\text{NDF}: 13.6/17$

Left Out: 310.873 ± 160.650 $\chi^2/\text{NDF}: 29.7/24$

Right Out: -267.730 ± 404.076 $\chi^2/\text{NDF}: 18.2/19$

Left In: 51.454 ± 161.744 $\chi^2/\text{NDF}: 23.8/22$

Left: 182.044 ± 113.982 $\chi^2/\text{NDF}: 54.9/47$

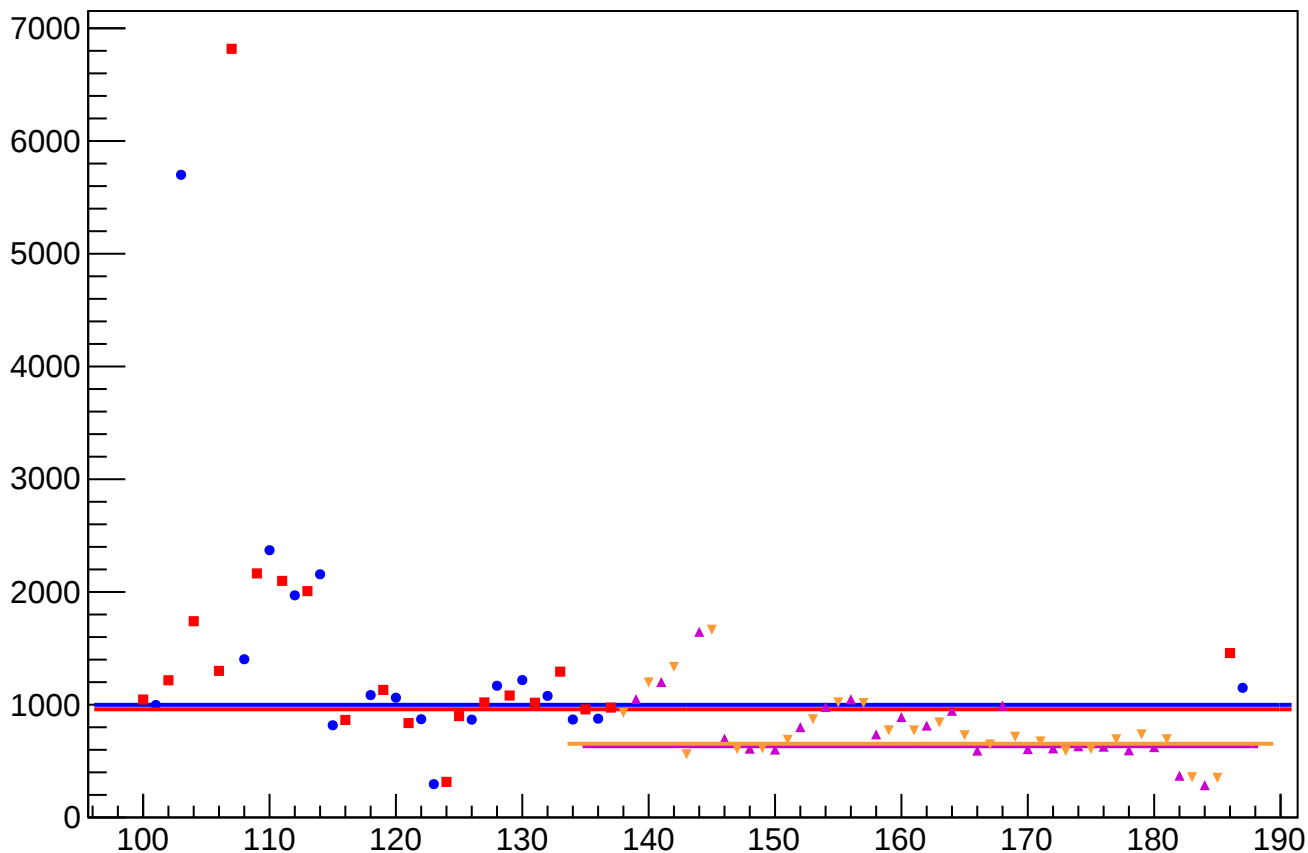
Right: -211.764 ± 290.246 $\chi^2/\text{NDF}: 31.8/37$

In: 24.853 ± 150.806 $\chi^2/\text{NDF}: 37.6/40$

Out: 231.899 ± 149.285 $\chi^2/\text{NDF}: 49.7/44$

All: 129.426 ± 106.094 $\chi^2/\text{NDF}: 88.3/85$

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: 959.338+/-0.286 χ^2/NDF : 2756691.4/19

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

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

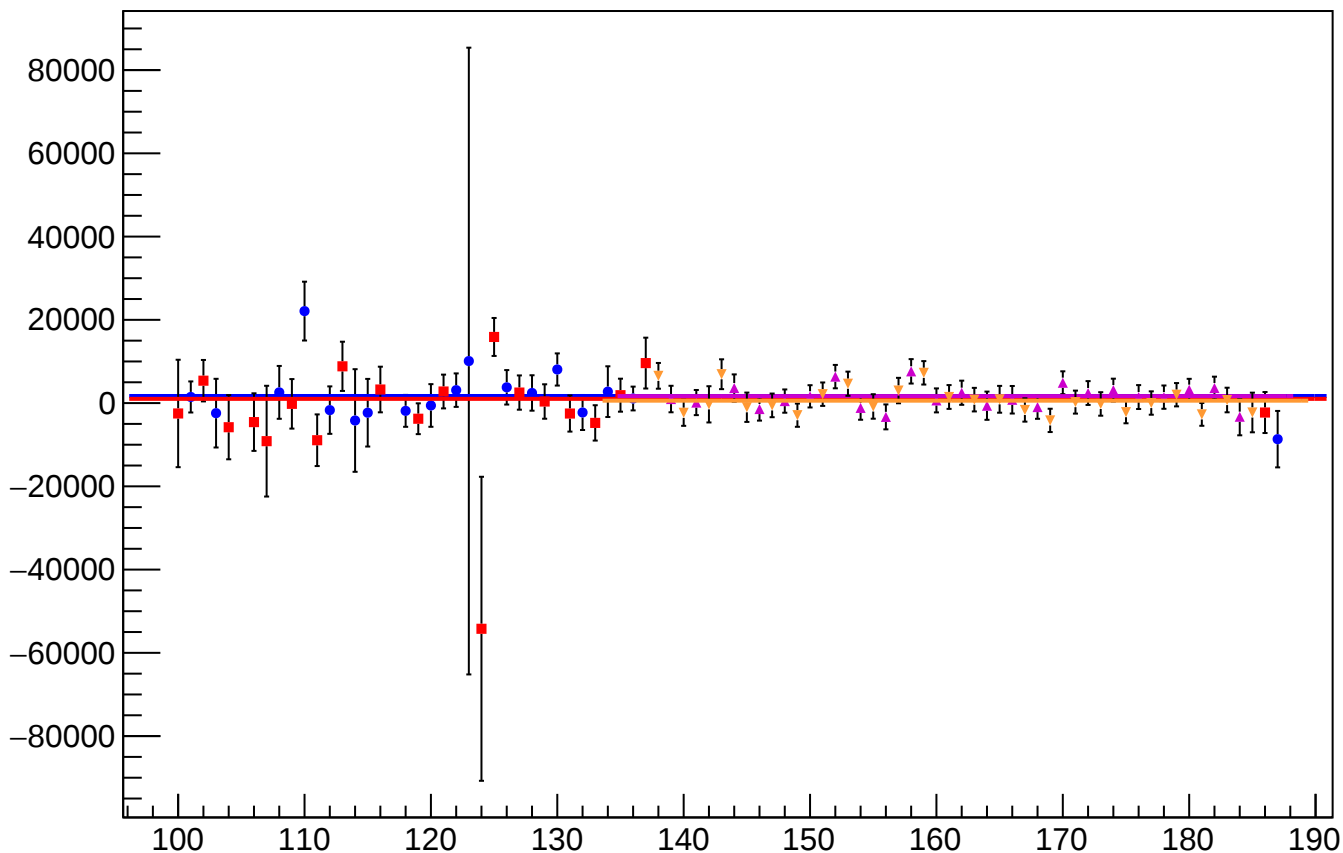
Right: 978.503+/-0.205 χ^2/NDF : 4674284.0/37

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

Out: 695.505+/-0.106 χ^2/NDF : 6998790.1/44

All: 687.829+/-0.075 χ^2/NDF : 14205293.3/85

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: 1016.781+/-1157.678 χ^2/NDF : 27.3/19

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

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

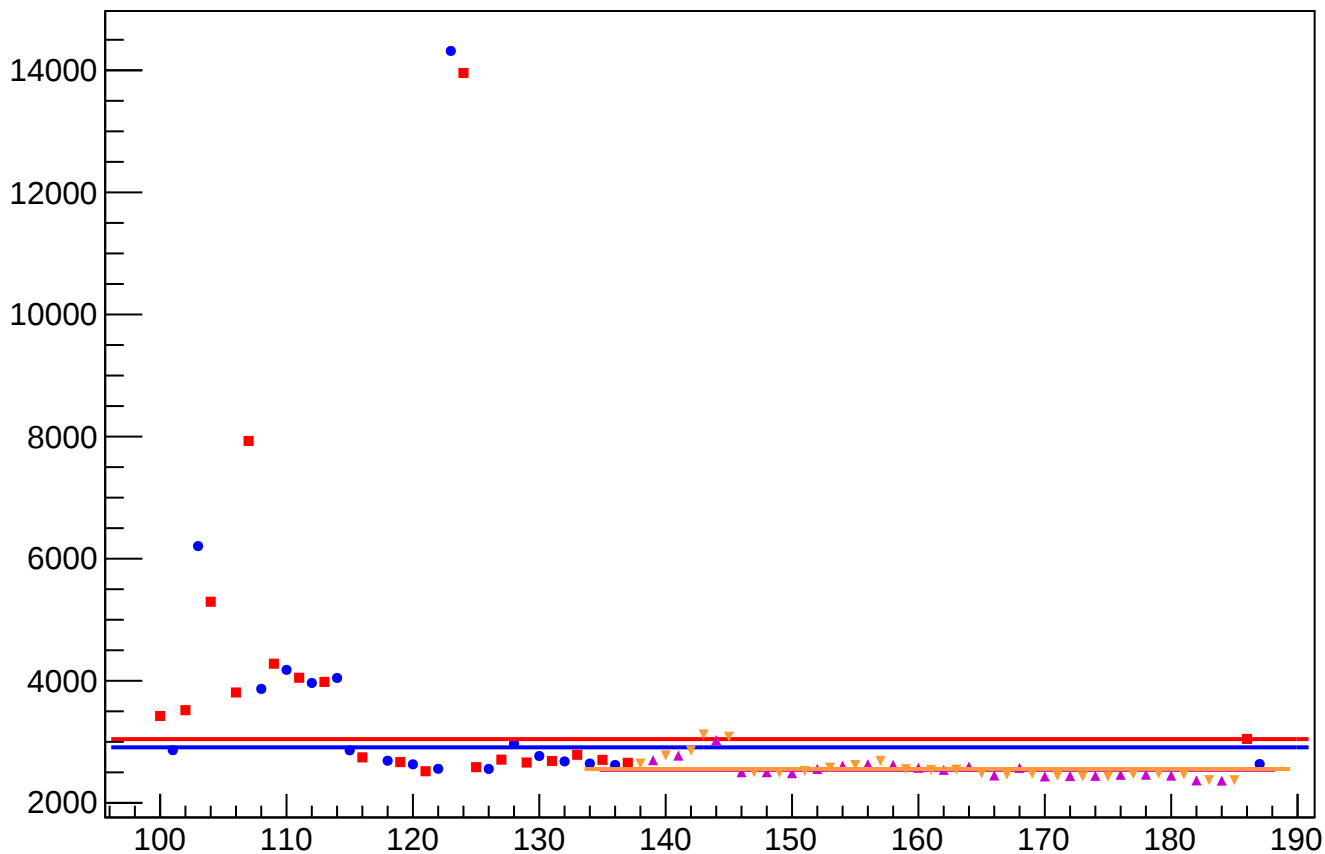
Right: 1363.531+/-814.736 χ^2/NDF : 44.4/37

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

Out: 672.491+/-530.723 χ^2/NDF : 52.7/44

All: 1171.219+/-378.043 χ^2/NDF : 89.6/85

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: 3044.644+/-0.819 χ^2/NDF : 1006713.1/19

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

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

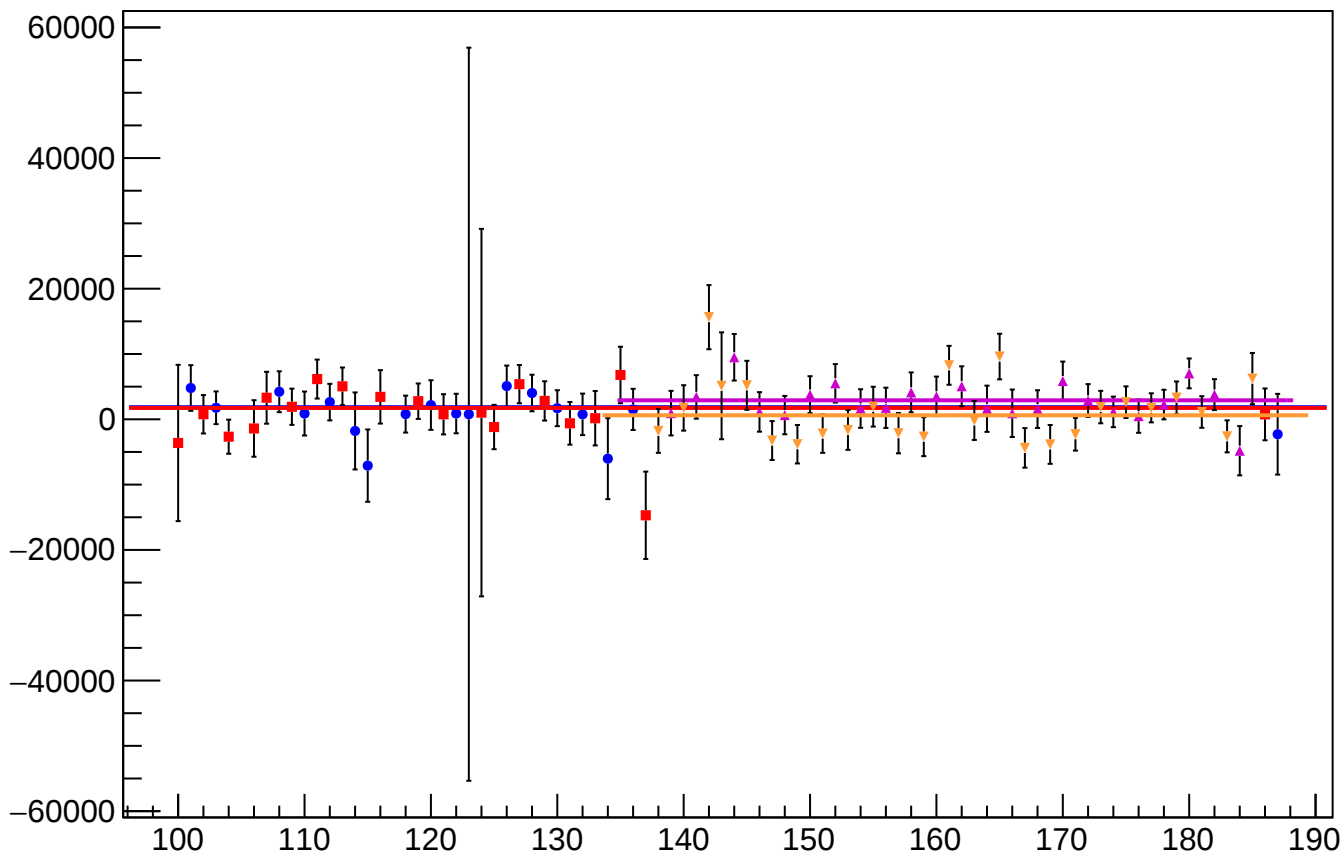
Right: 2976.663+/-0.576 χ^2/NDF : 1660445.1/37

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

Out: 2658.127+/-0.375 χ^2/NDF :1443721.6/44

All: 2640.517+/-0.267 χ^2/NDF : 2344366.4/85

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: 1743.838+/-777.024 χ^2/NDF : 18.3/19

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

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

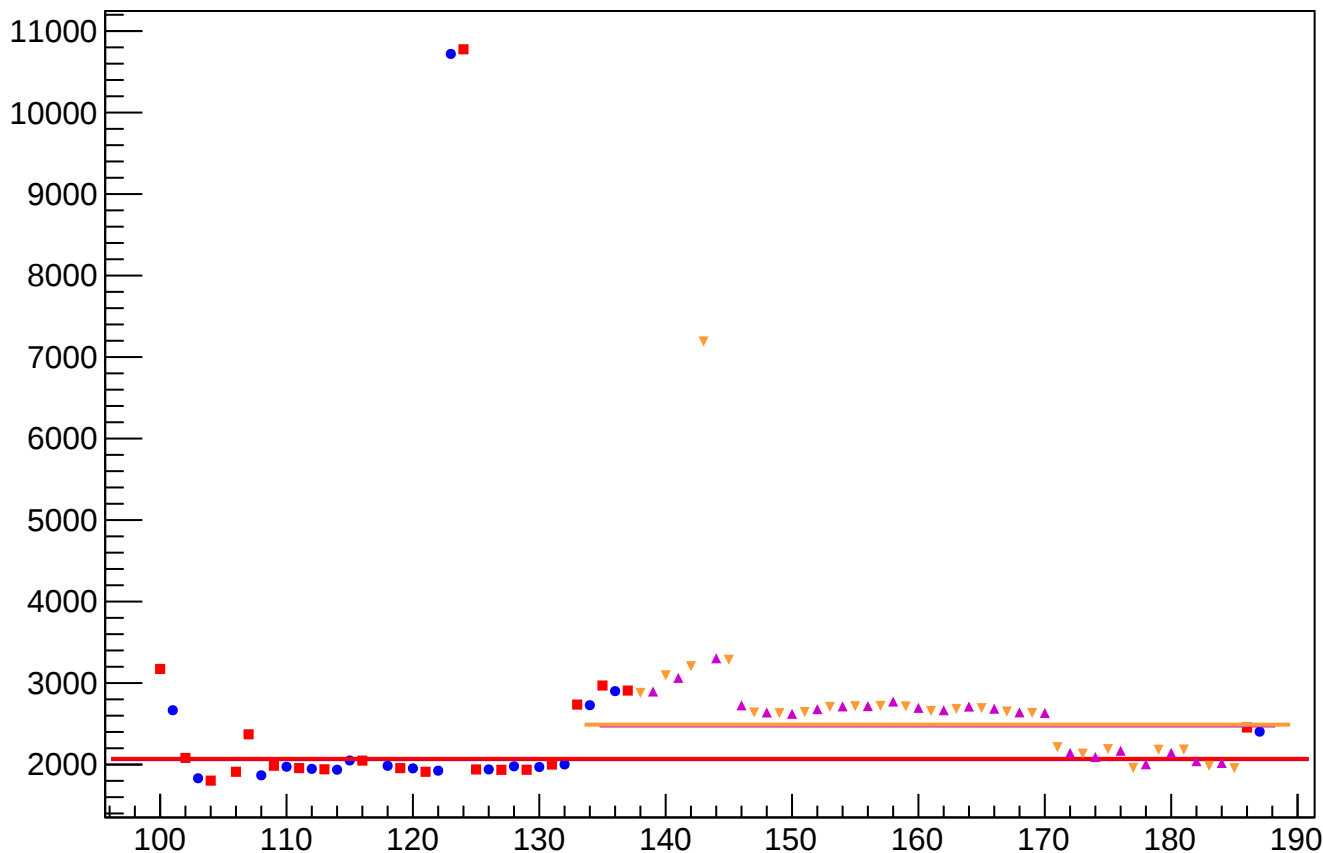
Right: 1796.075+/-559.623 χ^2/NDF : 26.9/37

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

Out: 1028.752+/-470.472 χ^2/NDF : 64.8/44

All: 1763.817+/-336.423 χ^2/NDF : 96.8/85

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2066.566 $\pm$ 0.570 χ^2 /NDF: 323664.3/17

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

Right Out: 2070.044 $\pm$ 0.549 χ^2 /NDF: 461236.2/19

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

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

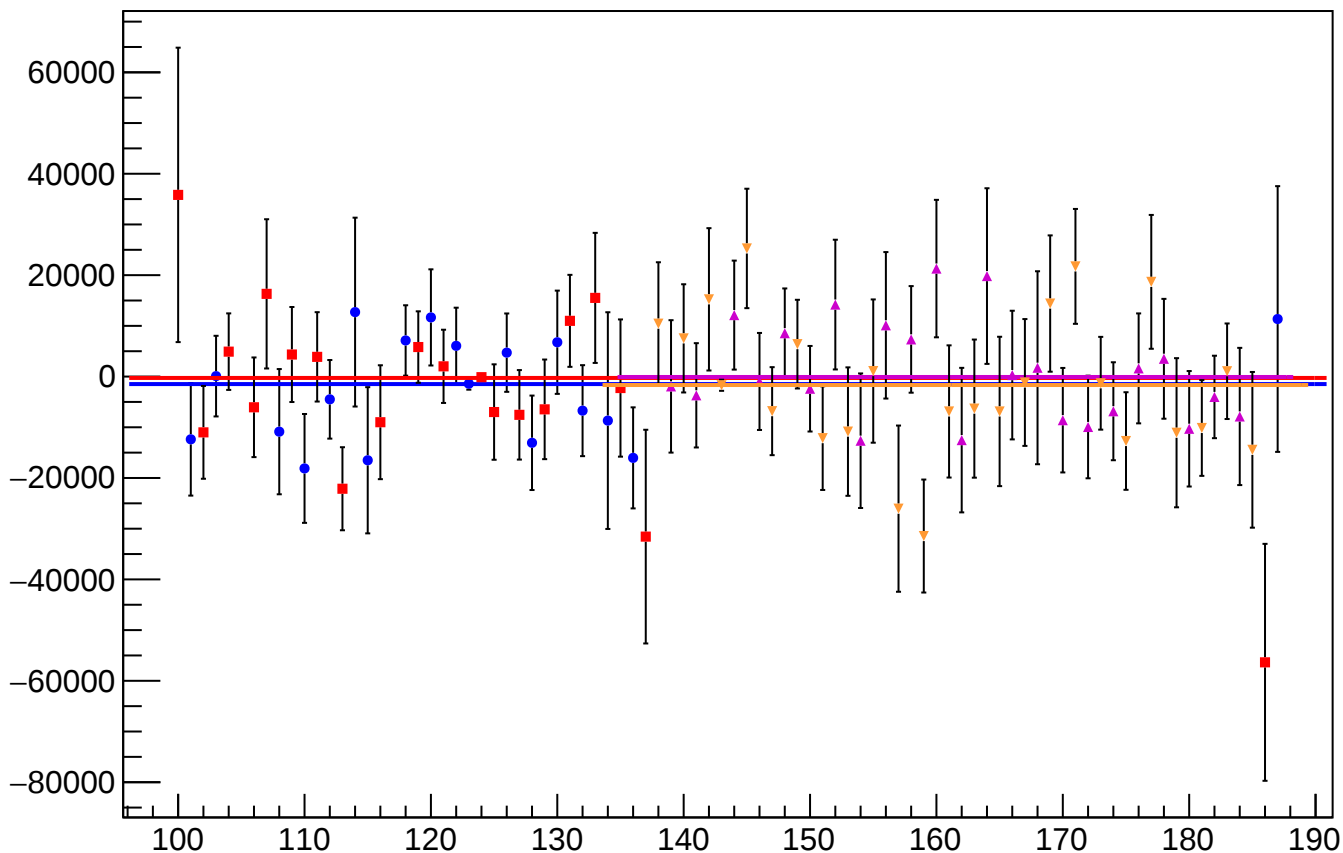
Right: 2068.370 $\pm$ 0.396 χ^2 /NDF: 784919.8/37

In: 2332.423 $\pm$ 0.340 χ^2 /NDF:1329364.6/40

Out: 2335.773 $\pm$ 0.333 χ^2 /NDF:2194731.4/44

All: 2334.136 $\pm$ 0.238 χ^2 /NDF: 3524145.5/85

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: -269.641+/-695.030 χ^2/NDF : 26.7/19

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

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

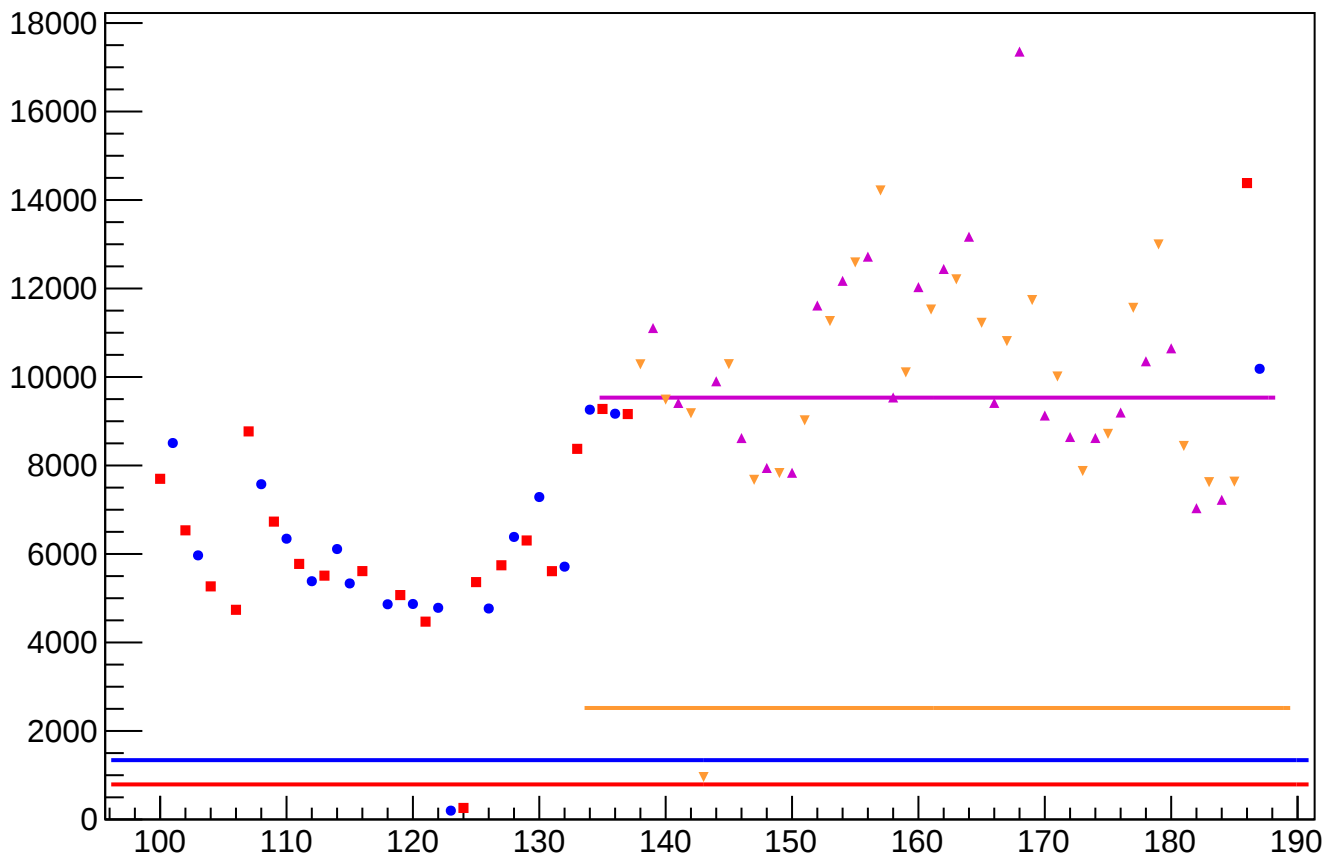
Right: -636.343+/-580.201 χ^2/NDF : 43.6/37

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

Out: -728.555+/-569.421 χ^2/NDF : 60.4/44

All: -862.131+/-489.786 χ^2/NDF : 90.7/85

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1340.390+/-0.745

χ^2/NDF : 10255819.3/17

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right Out: 791.844+/-0.491

χ^2/NDF : 12083748.3/19

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

Left: 3596.432+/-0.646

χ^2/NDF : 40280305.8/47

Right: 958.126+/-0.410

χ^2/NDF : 22717212.2/37

In: 2730.224+/-0.679

χ^2/NDF : 32080391.5/40

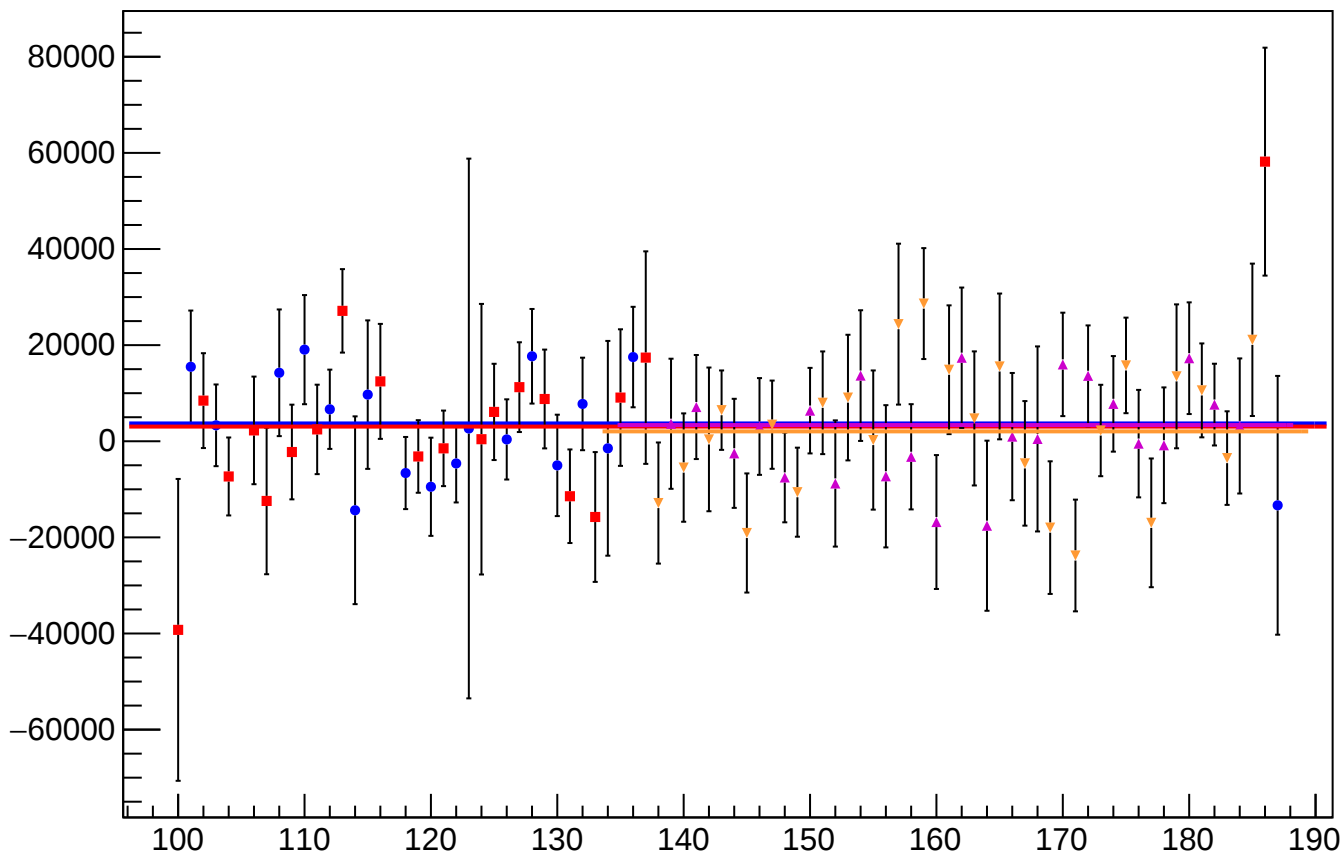
Out: 1359.830+/-0.403

χ^2/NDF : 39788266.2/44

All: 1716.334+/-0.346

χ^2/NDF : 74882171.1/8

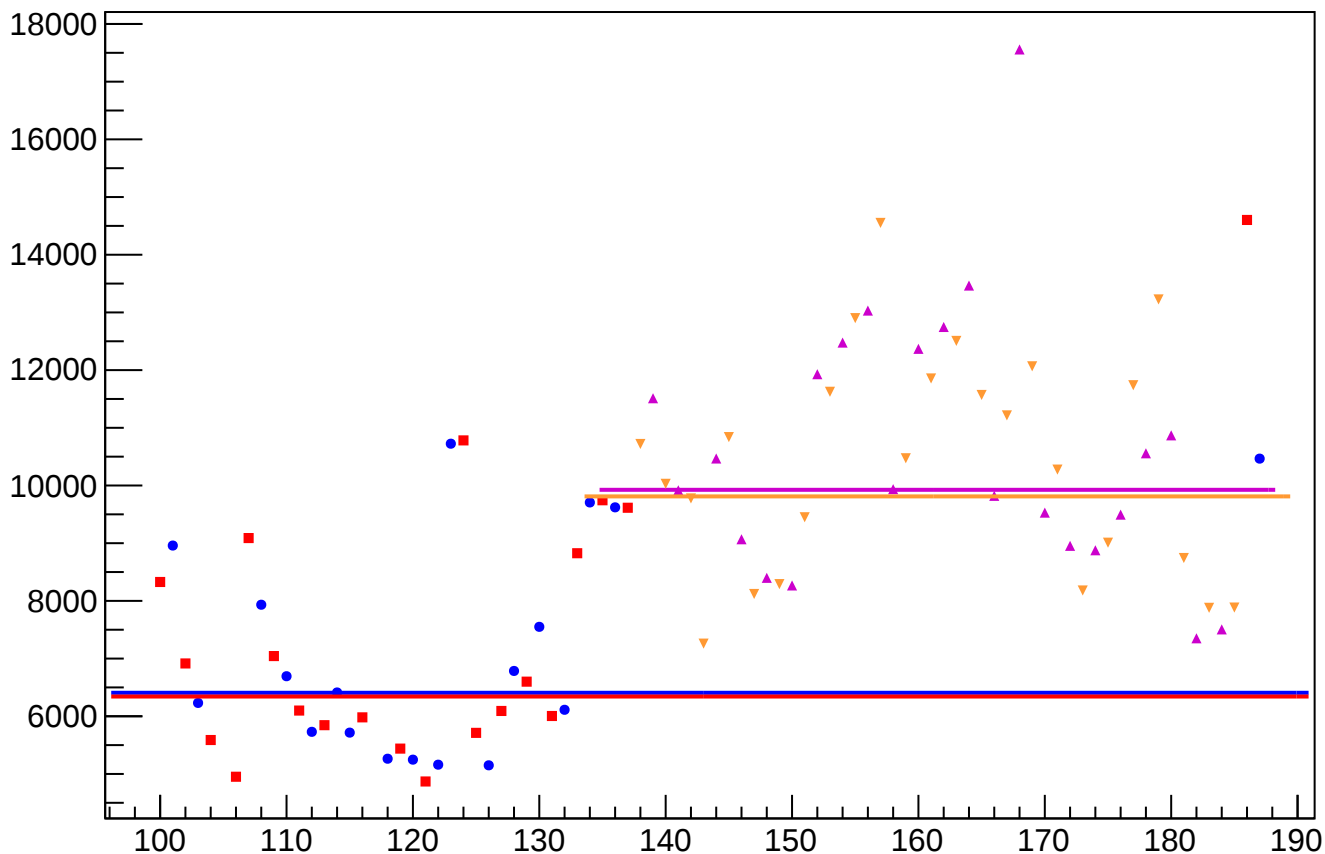
asym_atl2_mean vs Slug, Sign Corrected



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: 3052.127 $\pm$ 2414.349 χ^2 /NDF: 25.7/19
 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: 3363.714 $\pm$ 1747.260 χ^2 /NDF: 40.2/37
 In: 3531.821 $\pm$ 1750.622 χ^2 /NDF:27.6/40
 Out: 2537.079 $\pm$ 1677.886 χ^2 /NDF:56.6/44
 All: 3013.356 $\pm$ 1211.342 χ^2 /NDF: 84.3/85

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: 6342.087+/-1.707 χ^2/NDF : 777984.3/19

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

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

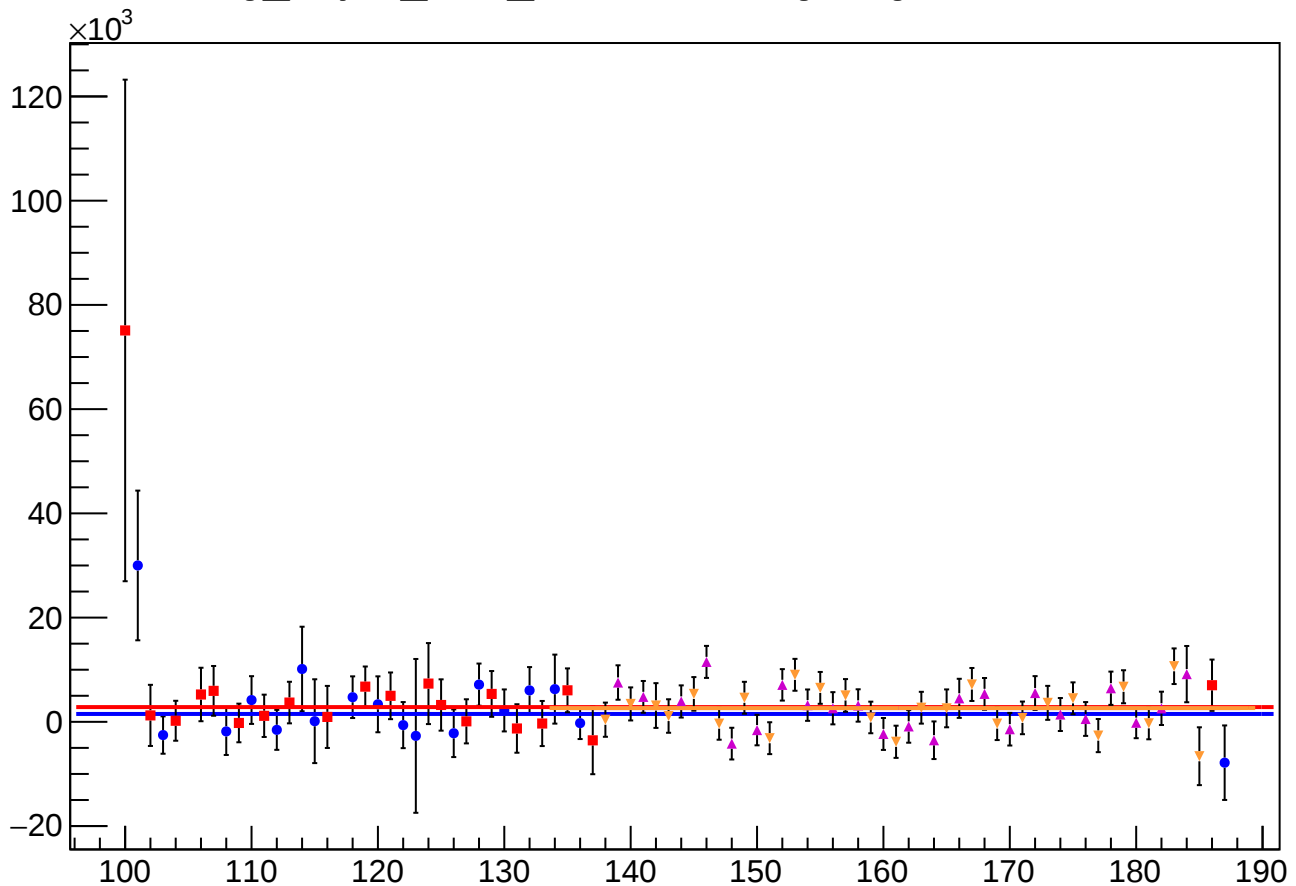
Right: 6373.072+/-1.235 χ^2/NDF : 1403253.7/37

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

Out: 8135.549+/-1.186 χ^2/NDF :4126638.4/44

All: 8187.138+/-0.857 χ^2/NDF : 7982260.8/85

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1511.317 $\pm$ 1117.395 χ^2 /NDF: 15.2/17

Left Out: 2635.833 $\pm$ 646.121 χ^2 /NDF:35.1/24

Right Out: 2829.049 $\pm$ 1049.804 χ^2 /NDF: 10.4/19

Left In: 2638.607 $\pm$ 664.569 χ^2 /NDF:35.2/22

Left: 2637.181 $\pm$ 463.261 χ^2 /NDF: 70.3/47

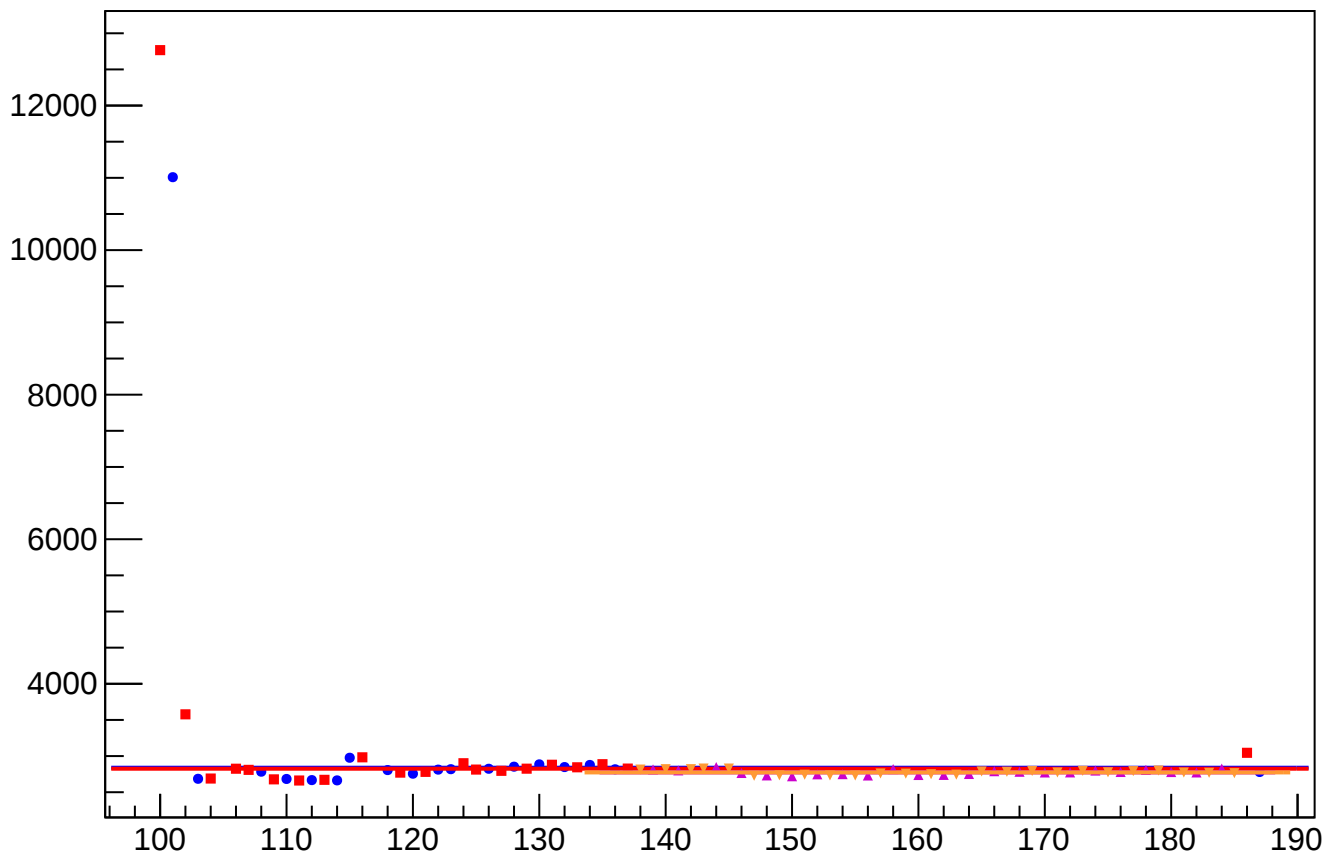
Right: 2211.241 $\pm$ 765.103 χ^2 /NDF: 26.3/37

In: 2344.048 $\pm$ 571.182 χ^2 /NDF:51.2/40

Out: 2688.916 $\pm$ 550.254 χ^2 /NDF:45.5/44

All: 2522.916 $\pm$ 396.280 χ^2 /NDF: 96.8/85

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: 2825.128+/-0.742 χ^2/NDF : 137234.2/19

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

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

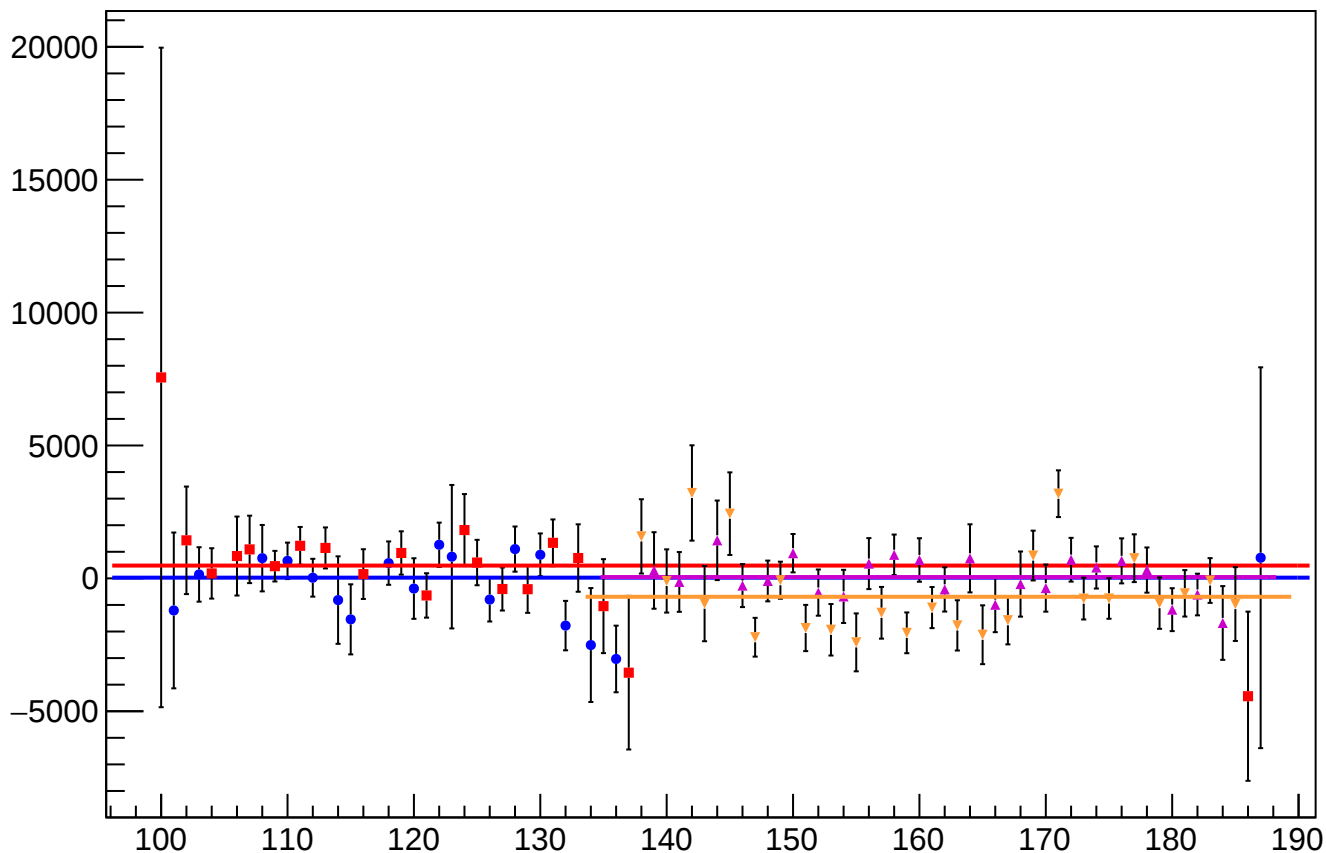
Right: 2831.559+/-0.541 χ^2/NDF : 797664.7/37

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

Out: 2787.839+/-0.389 χ^2/NDF : 145329.9/44

All: 2789.346+/-0.280 χ^2/NDF : 815586.7/85

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: 26.602 ± 242.317 $\chi^2/\text{NDF}: 20.8/17$

Left Out: -692.808 ± 187.297 $\chi^2/\text{NDF}: 56.0/24$

Right Out: 480.988 ± 221.640 $\chi^2/\text{NDF}: 14.3/19$

Left In: 49.244 ± 189.190 $\chi^2/\text{NDF}: 13.6/22$

Left: -325.512 ± 133.103 $\chi^2/\text{NDF}: 77.4/47$

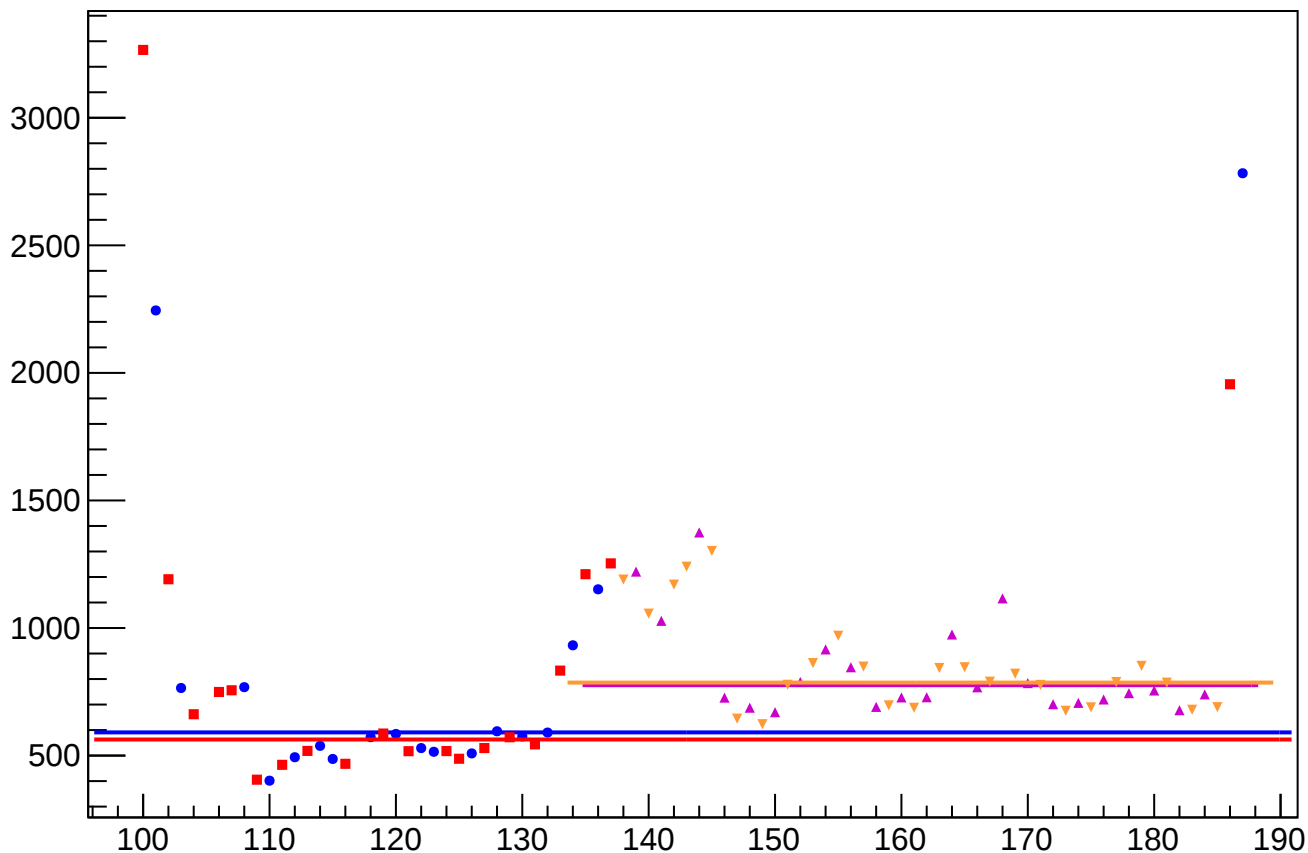
Right: 274.005 ± 163.545 $\chi^2/\text{NDF}: 37.0/37$

In: 40.669 ± 149.122 $\chi^2/\text{NDF}: 34.4/40$

Out: -203.796 ± 143.058 $\chi^2/\text{NDF}: 86.6/44$

All: -86.635 ± 103.234 $\chi^2/\text{NDF}: 122.5/85$

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: 563.067+/-0.157 χ^2/NDF : 1489556.3/19

Left In: 775.930+/-0.134 χ^2/NDF : 1056766.5/22

Left: 781.103+/-0.094 χ^2/NDF : 2309263.4/47

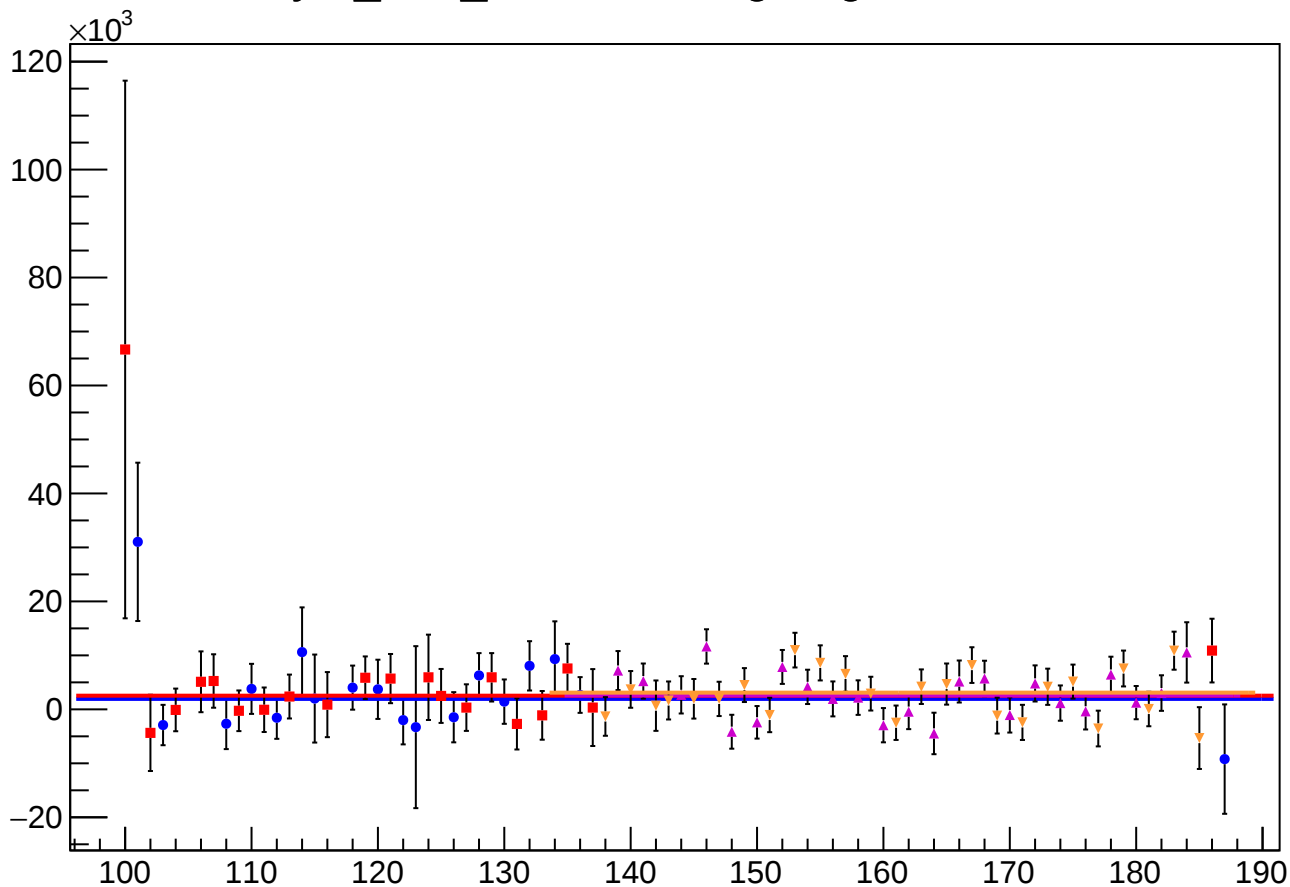
Right: 575.741+/-0.116 χ^2/NDF : 3115211.7/37

In: 705.852+/-0.105 χ^2/NDF : 3392638.0/40

Out: 693.226+/-0.101 χ^2/NDF : 3921358.5/44

All: 699.277+/-0.073 χ^2/NDF : 7321463.2/85

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: 2531.723+/-1093.758 χ^2/NDF : 12.0/19

Left In: 2573.184+/-695.795 χ^2/NDF : 35.7/22

Left: 2840.565+/-485.775 χ^2/NDF : 74.6/47

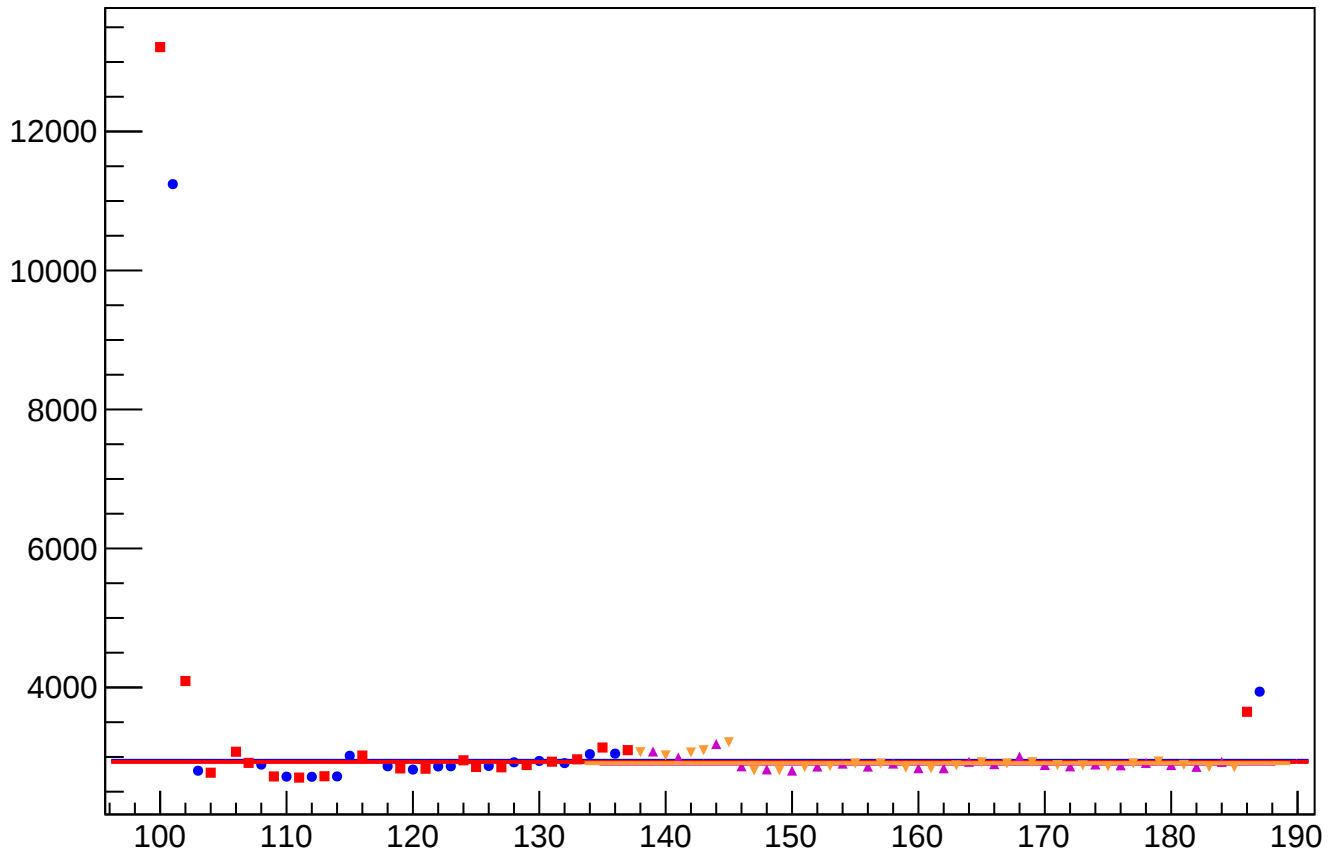
Right: 2250.813+/-795.667 χ^2/NDF : 27.8/37

In: 2404.259+/-596.633 χ^2/NDF : 51.6/40

Out: 2938.345+/-576.578 χ^2/NDF : 50.9/44

All: 2680.429+/-414.611 χ^2/NDF : 102.9/85

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: 2928.434+/-0.773 χ^2/NDF : 200395.5/19

Left In: 2903.411+/-0.492 χ^2/NDF : 28838.5/22

Left: 2907.416+/-0.343 χ^2/NDF : 65612.1/47

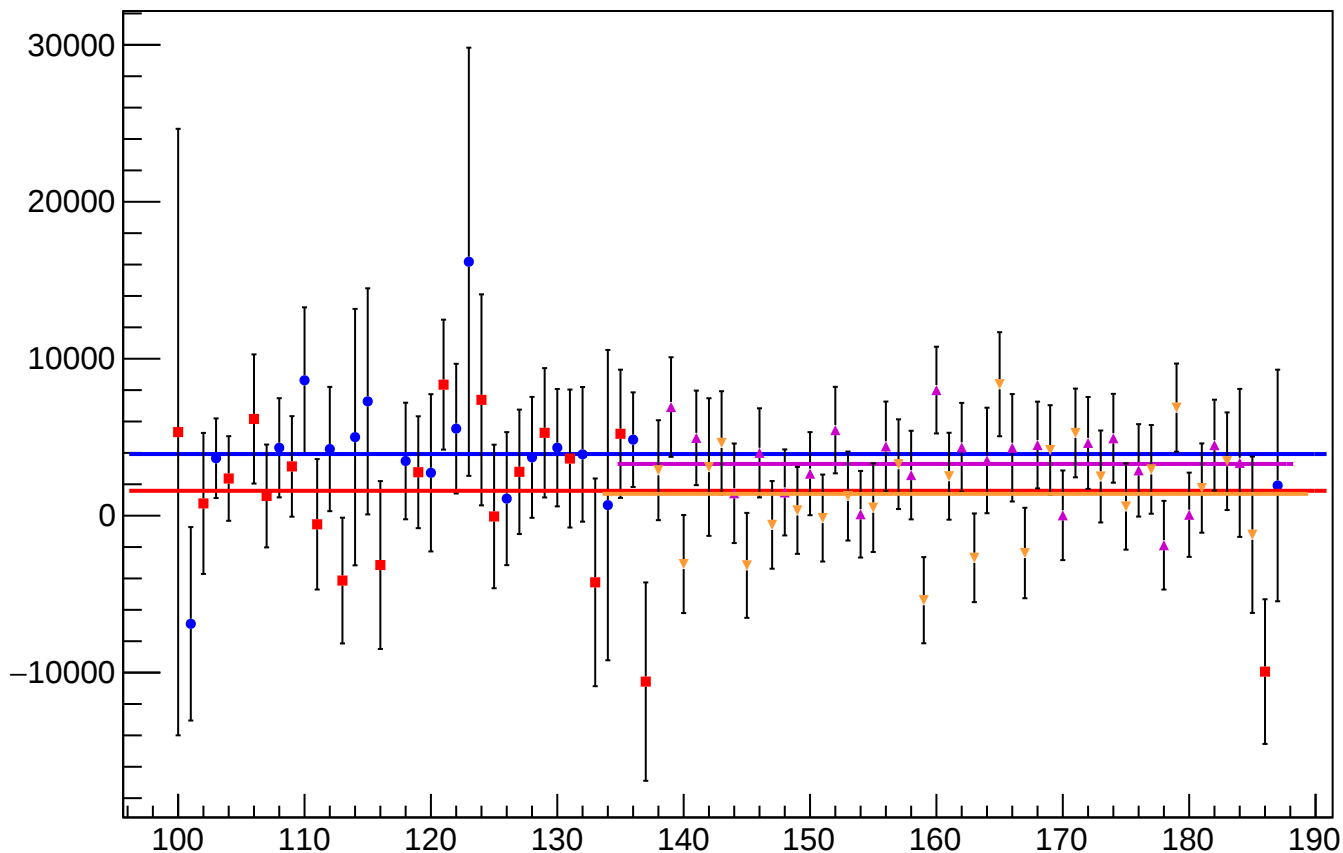
Right: 2935.656+/-0.563 χ^2/NDF : 882250.1/37

In: 2914.095+/-0.422 χ^2/NDF : 712289.5/40

Out: 2916.008+/-0.408 χ^2/NDF : 237397.3/44

All: 2915.084+/-0.293 χ^2/NDF : 949697.4/85

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: 1584.905 $\pm$ 940.358 χ^2 /NDF: 21.0/19

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

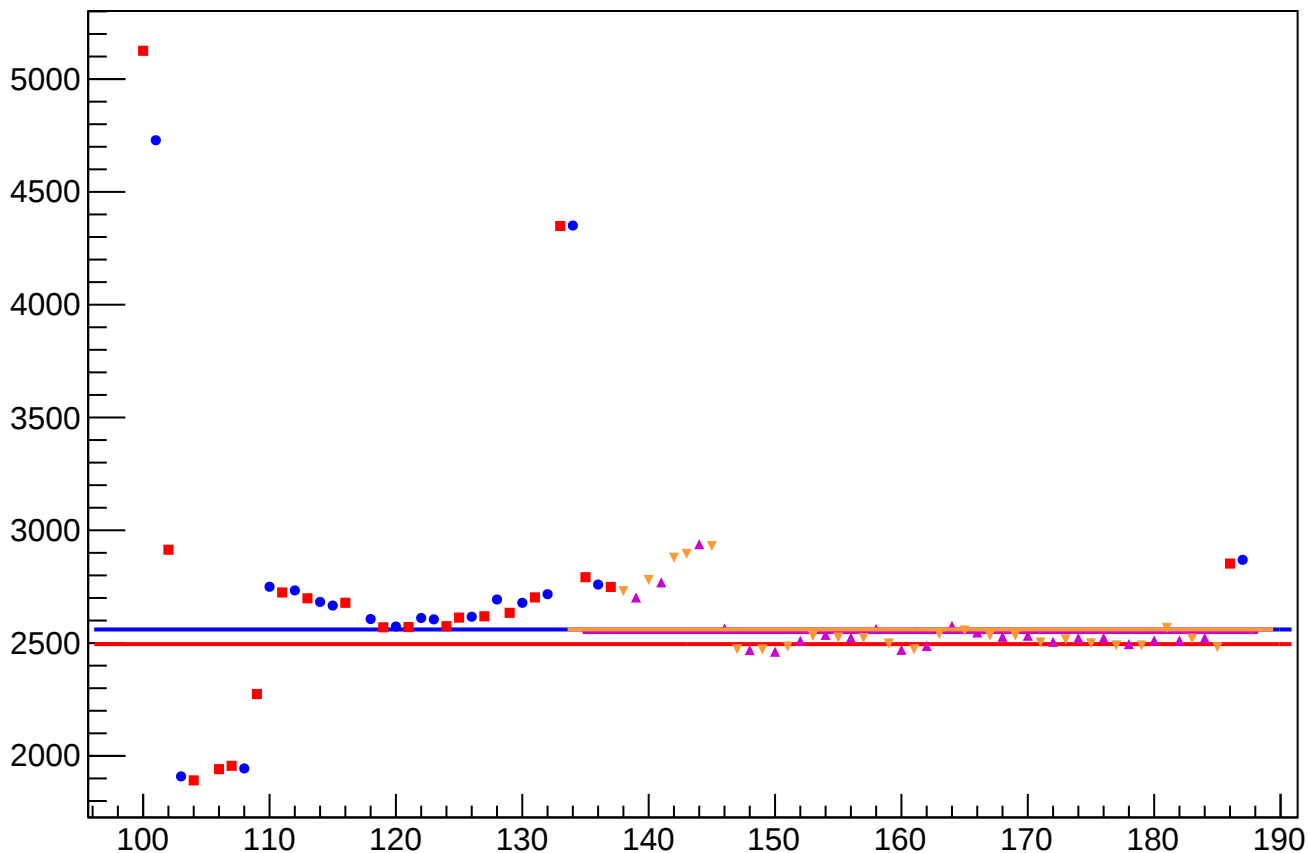
Right: 2677.871 $\pm$ 686.649 χ^2 /NDF: 30.0/37

In: 3465.215 $\pm$ 521.456 χ^2 /NDF:21.3/40

Out: 1446.121 $\pm$ 503.717 χ^2 /NDF:50.2/44

All: 2420.741 $\pm$ 362.291 χ^2 /NDF: 79.3/85

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: 2495.463 $\pm$ 0.665 χ^2 /NDF: 462831.7/19

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

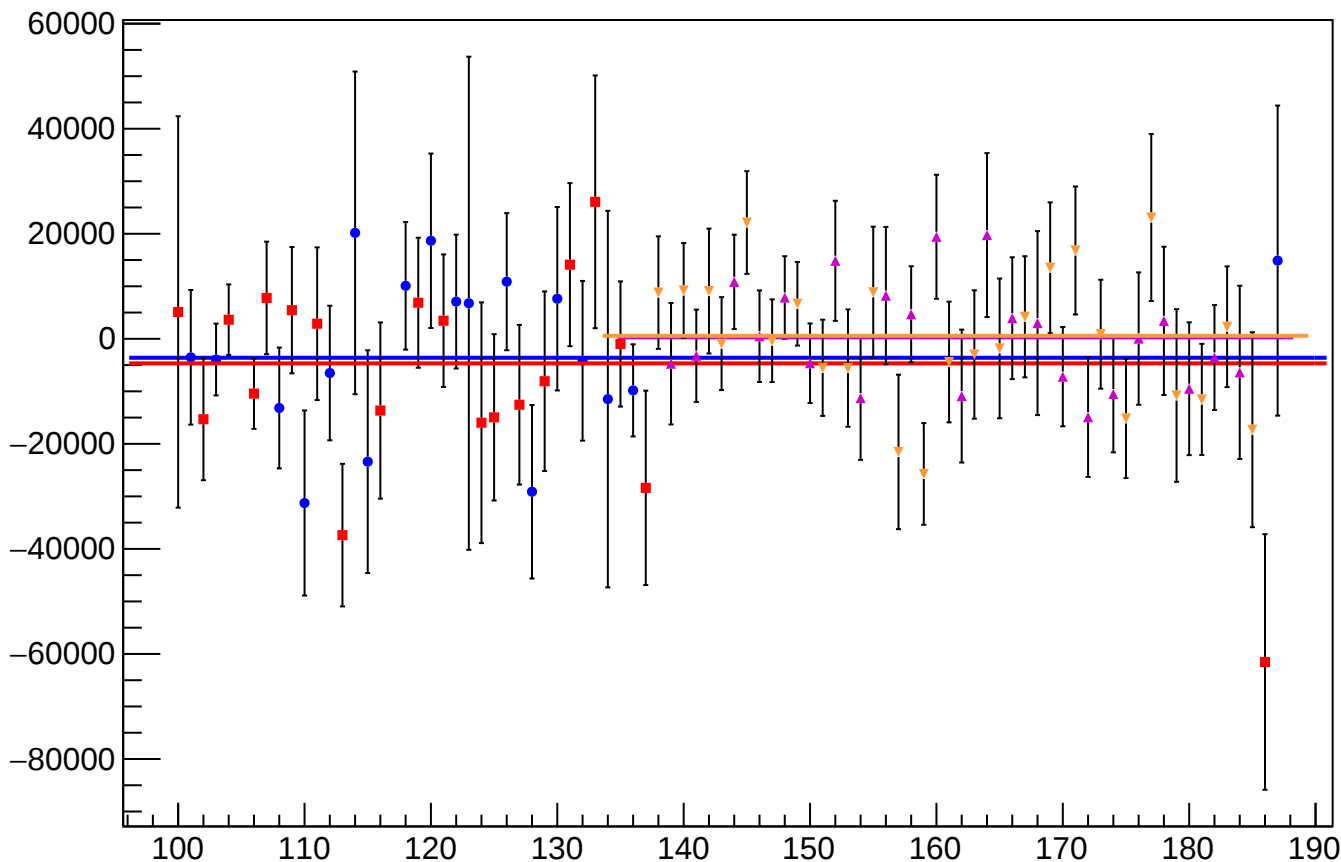
Right: 2525.749 $\pm$ 0.486 χ^2 /NDF: 1016614.6/37

In: 2551.958 $\pm$ 0.369 χ^2 /NDF:604795.3/40

Out: 2541.861 $\pm$ 0.356 χ^2 /NDF:556431.4/44

All: 2546.735 $\pm$ 0.256 χ^2 /NDF: 1161614.7/85

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -3608.051 $\pm$ 3214.909 χ^2 /NDF: 13.5/17

Left Out: 572.477 $\pm$ 2184.376 χ^2 /NDF:28.2/24

Right Out: -4675.713 $\pm$ 2819.178 χ^2 /NDF: 24.1/19

Left In: 275.116 $\pm$ 2242.836 χ^2 /NDF:15.7/22

Left: 427.723 $\pm$ 1564.847 χ^2 /NDF: 43.9/47

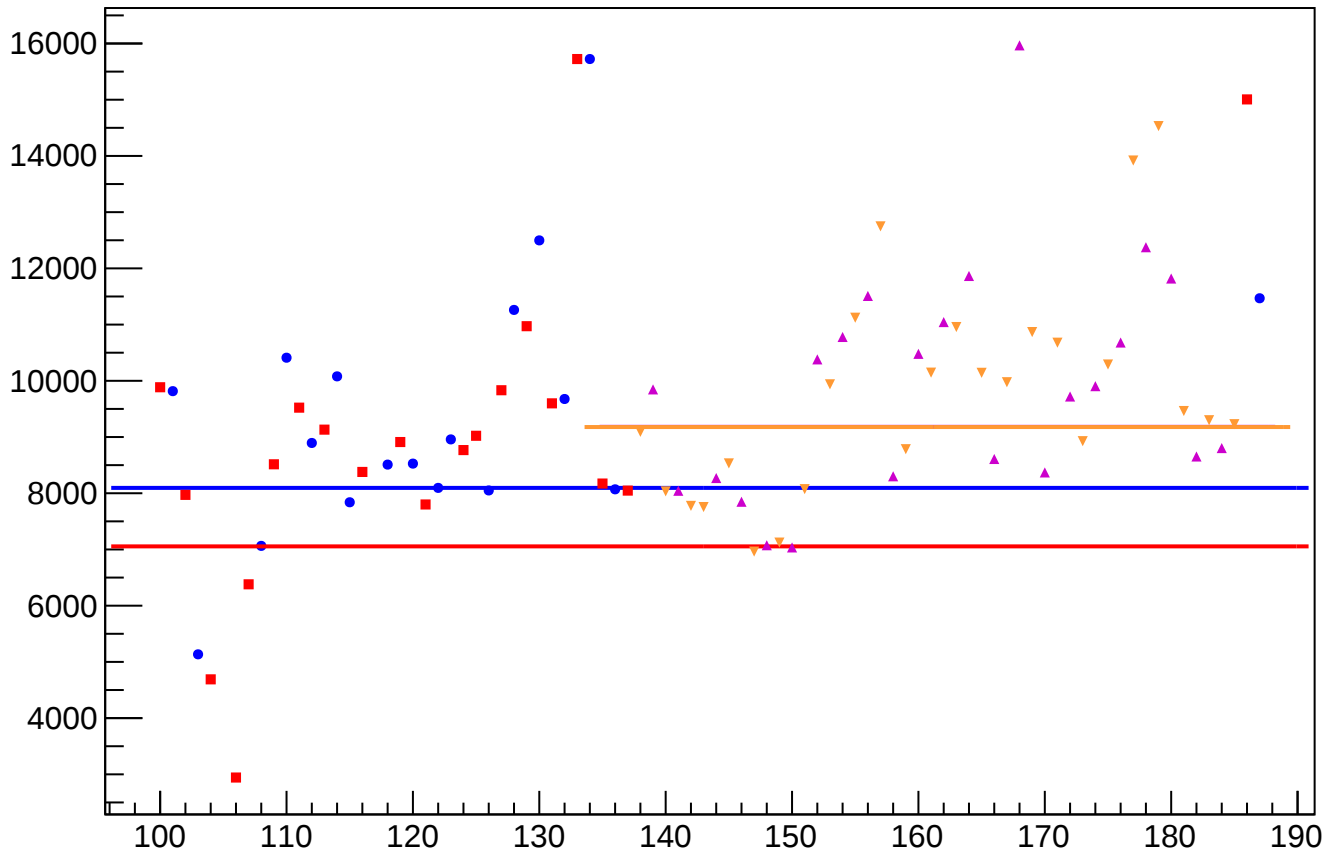
Right: -4211.602 $\pm$ 2119.643 χ^2 /NDF: 37.7/37

In: -996.106 $\pm$ 1839.444 χ^2 /NDF:30.1/40

Out: -1396.327 $\pm$ 1726.708 χ^2 /NDF:54.6/44

All: -1208.856 $\pm$ 1258.936 χ^2 /NDF: 84.7/85

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 8095.353 $\pm$ 2.273 χ^2/NDF : 821770.1/17

Left Out: 9177.688 $\pm$ 1.545 χ^2/NDF : 1176195.8/24

Right Out: 7054.907 $\pm$ 1.993 χ^2/NDF : 1993113.0/19

Left In: 9181.254 $\pm$ 1.586 χ^2/NDF : 1236469.7/22

Left: 9179.424 $\pm$ 1.107 χ^2/NDF : 2412668.1/47

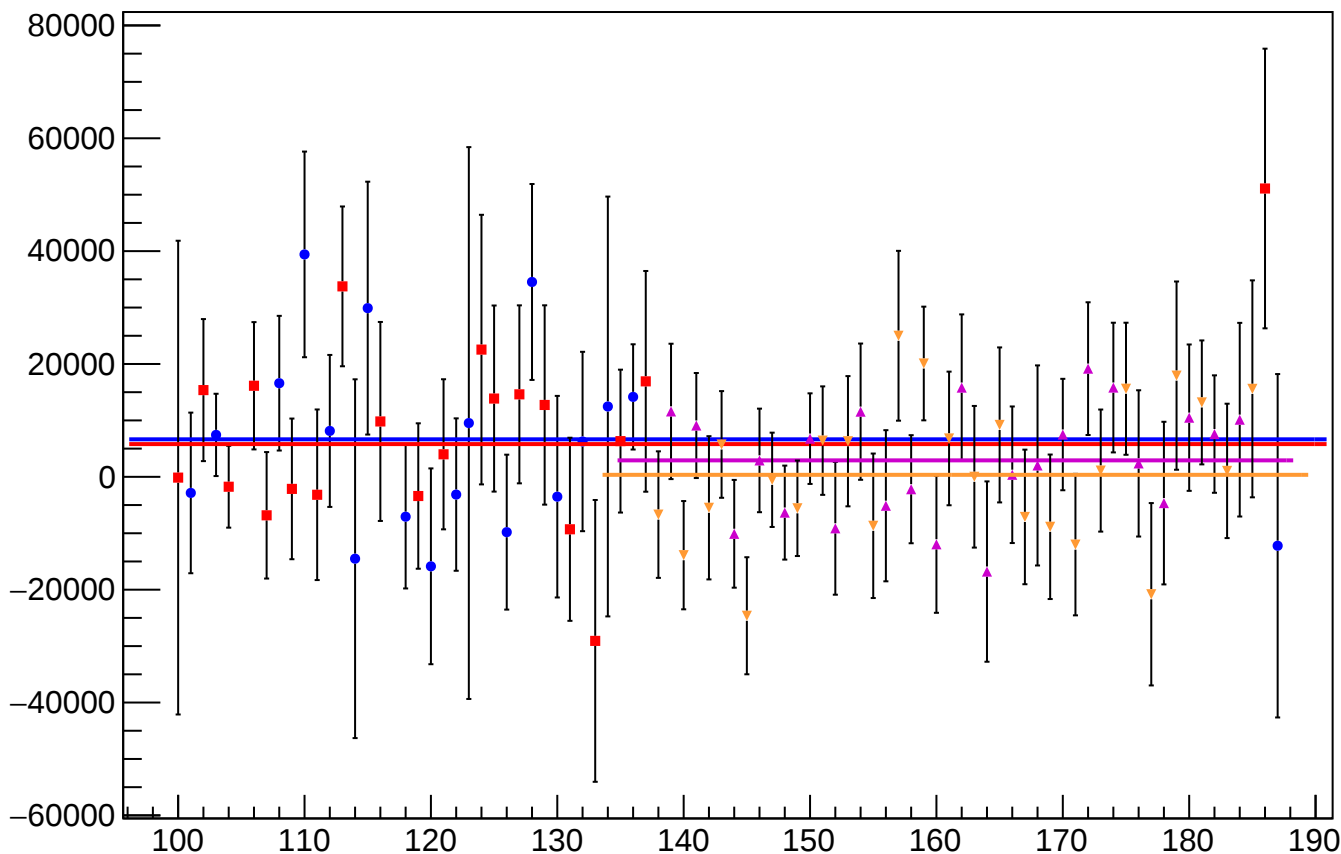
Right: 7507.187 $\pm$ 1.499 χ^2/NDF : 2933299.6/37

In: 8825.765 $\pm$ 1.301 χ^2/NDF : 2211719.5/40

Out: 8381.349 $\pm$ 1.221 χ^2/NDF : 3877871.4/44

All: 8589.522 $\pm$ 0.890 χ^2/NDF : 6151650.3/85

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: 5801.956+/-3147.597 χ^2/NDF : 16.7/19

Left In: 2918.356+/-2338.461 χ^2/NDF : 14.9/22

Left: 1605.548+/-1633.097 χ^2/NDF : 41.8/47

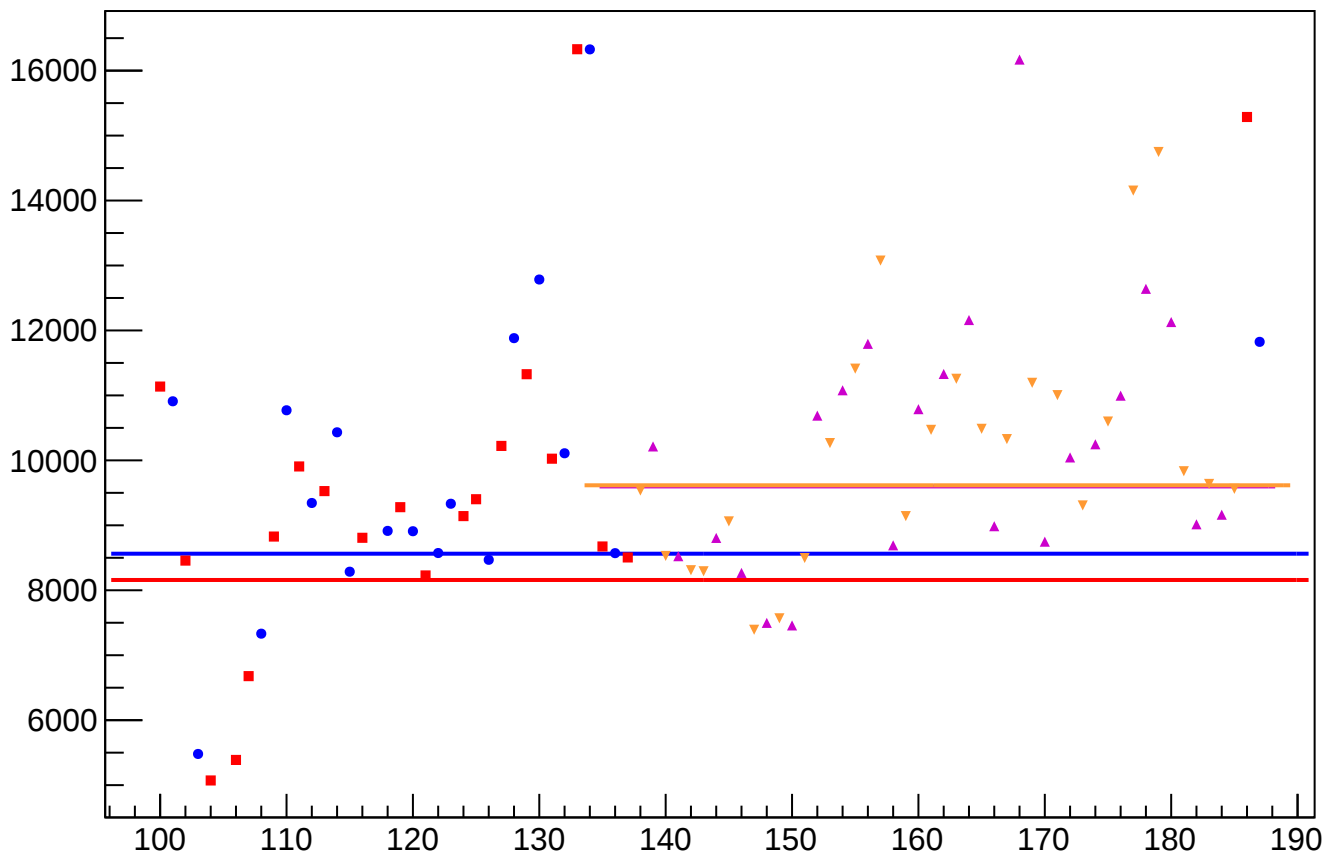
Right: 6193.240+/-2308.621 χ^2/NDF : 31.4/37

In: 4118.085+/-1926.069 χ^2/NDF : 30.4/40

Out: 2231.764+/-1847.365 χ^2/NDF : 44.9/44

All: 3135.598+/-1333.240 χ^2/NDF : 75.8/85

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: 8158.433 $\pm$ 2.226 χ^2/NDF : 1121466.2/19

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

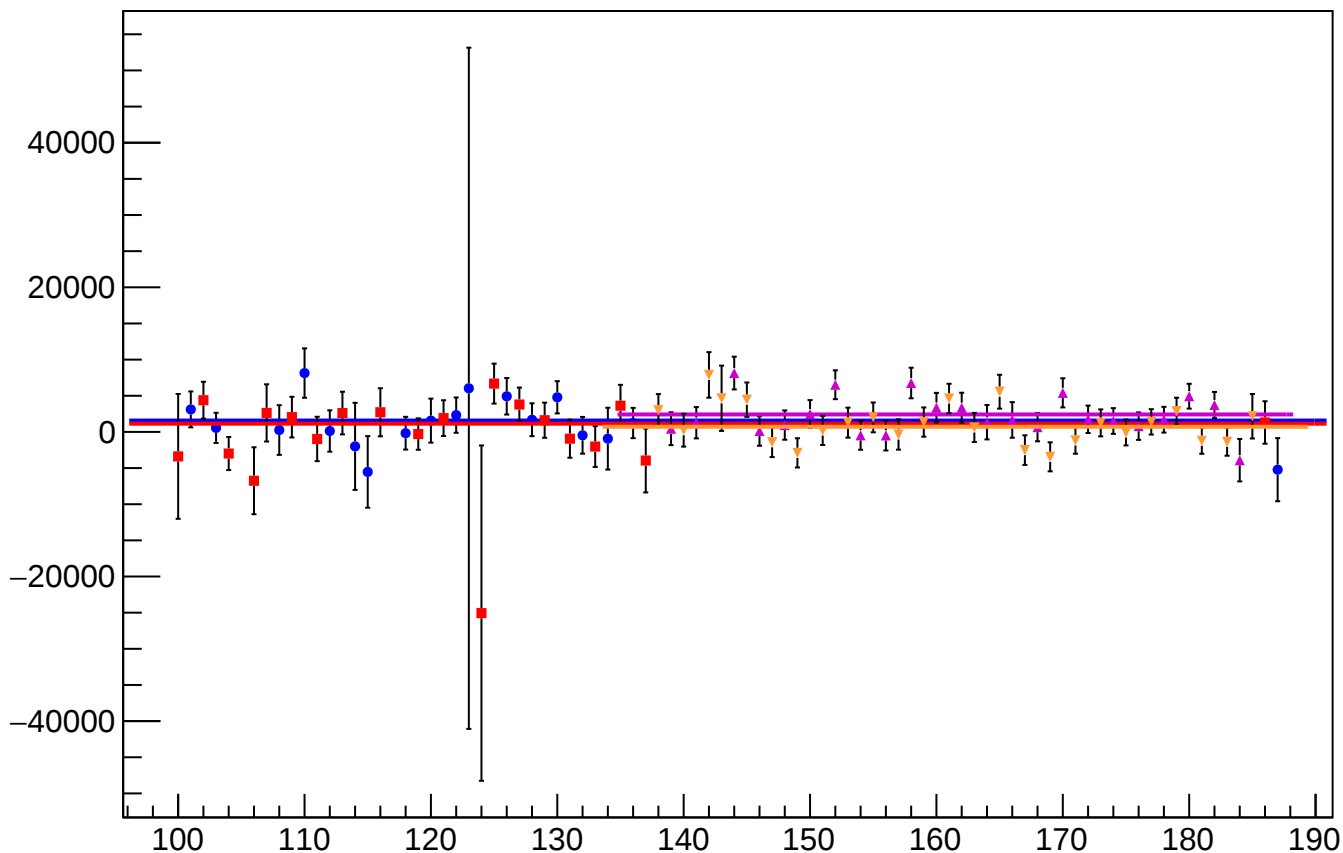
Right: 8345.342 $\pm$ 1.632 χ^2/NDF : 1929868.3/37

In: 9265.492 $\pm$ 1.362 χ^2/NDF : 2001444.3/40

Out: 9114.055 $\pm$ 1.306 χ^2/NDF : 2414380.0/44

All: 9186.615 $\pm$ 0.943 χ^2/NDF : 4422264.1/85

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: 1140.480+/-656.050 χ^2/NDF : 20.3/19

Left In: 2414.749+/-423.472 χ^2/NDF : 34.0/22

Left: 1549.879+/-297.262 χ^2/NDF : 77.0/47

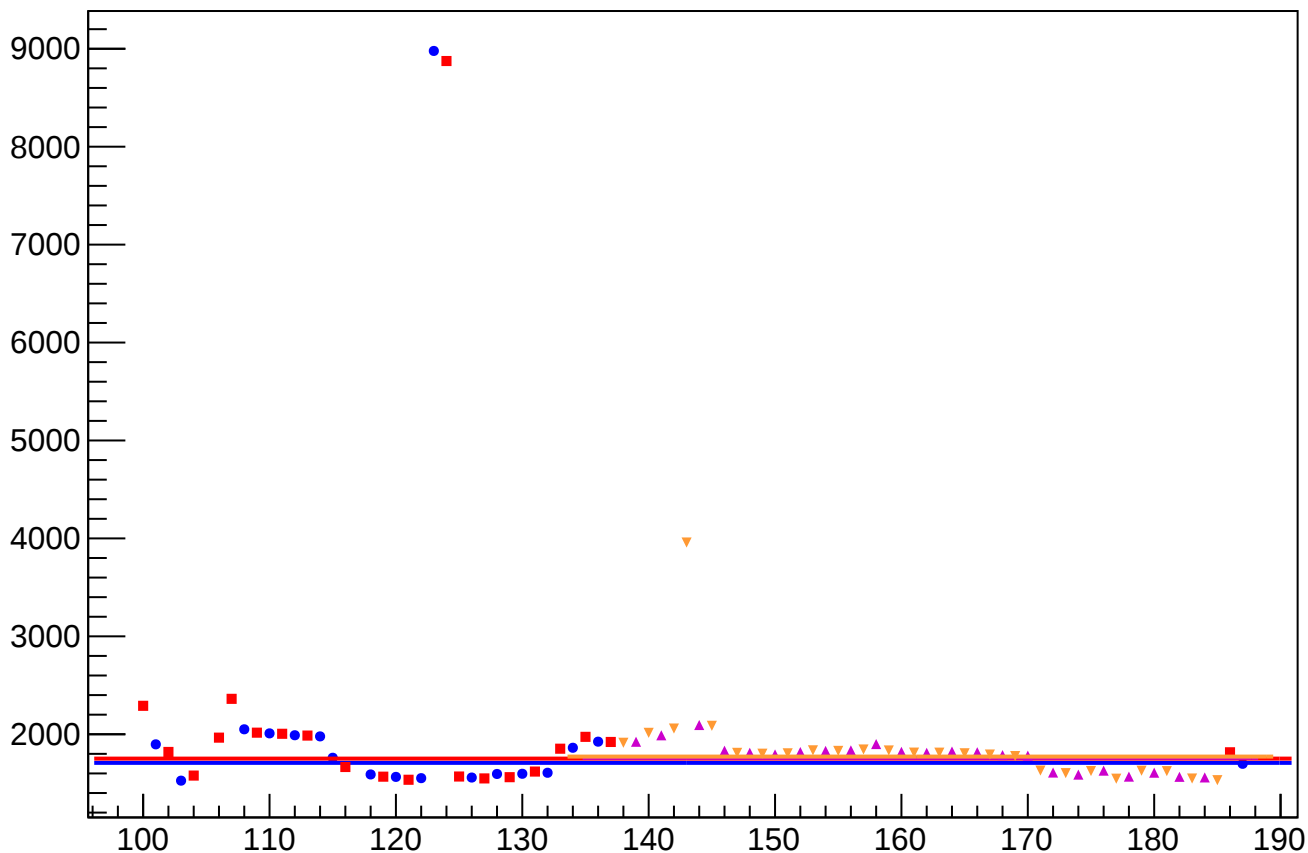
Right: 1353.708+/-466.786 χ^2/NDF : 35.7/37

In: 2171.332+/-357.087 χ^2/NDF : 50.2/40

Out: 833.836+/-352.152 χ^2/NDF : 55.5/44

All: 1493.277+/-250.736 χ^2/NDF : 112.8/85

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: 1751.433+/-0.462 χ^2/NDF : 397373.1/19

Left In: 1759.600+/-0.299 χ^2/NDF : 214891.5/22

Left: 1765.913+/-0.210 χ^2/NDF : 918240.2/47

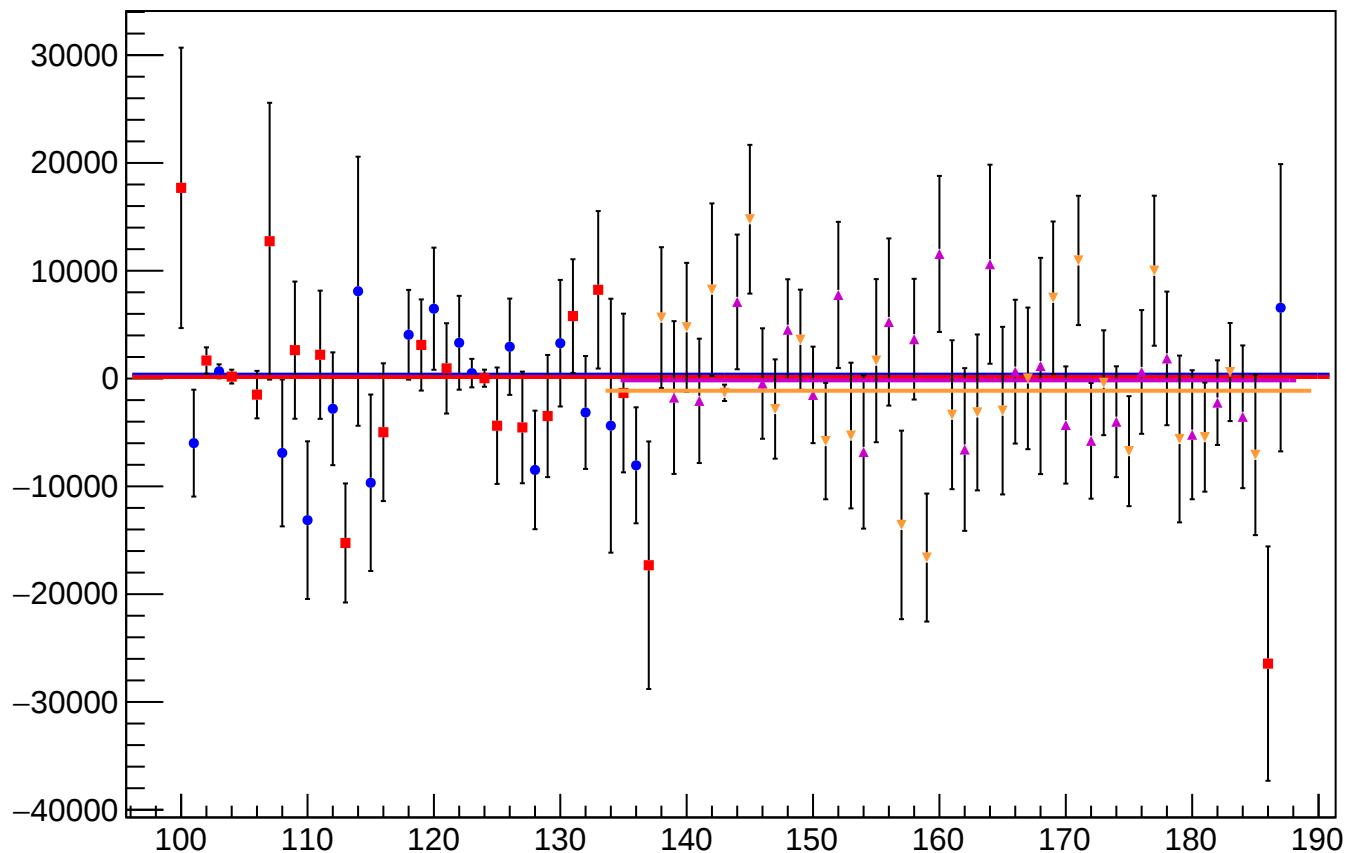
Right: 1730.064+/-0.329 χ^2/NDF : 597519.5/37

In: 1744.680+/-0.252 χ^2/NDF : 419275.9/40

Out: 1766.070+/-0.249 χ^2/NDF : 1101259.6/44

All: 1755.537+/-0.177 χ^2/NDF : 1524178.1/85

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: 145.898 $\pm$ 433.328 χ^2 /NDF: 26.8/19

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

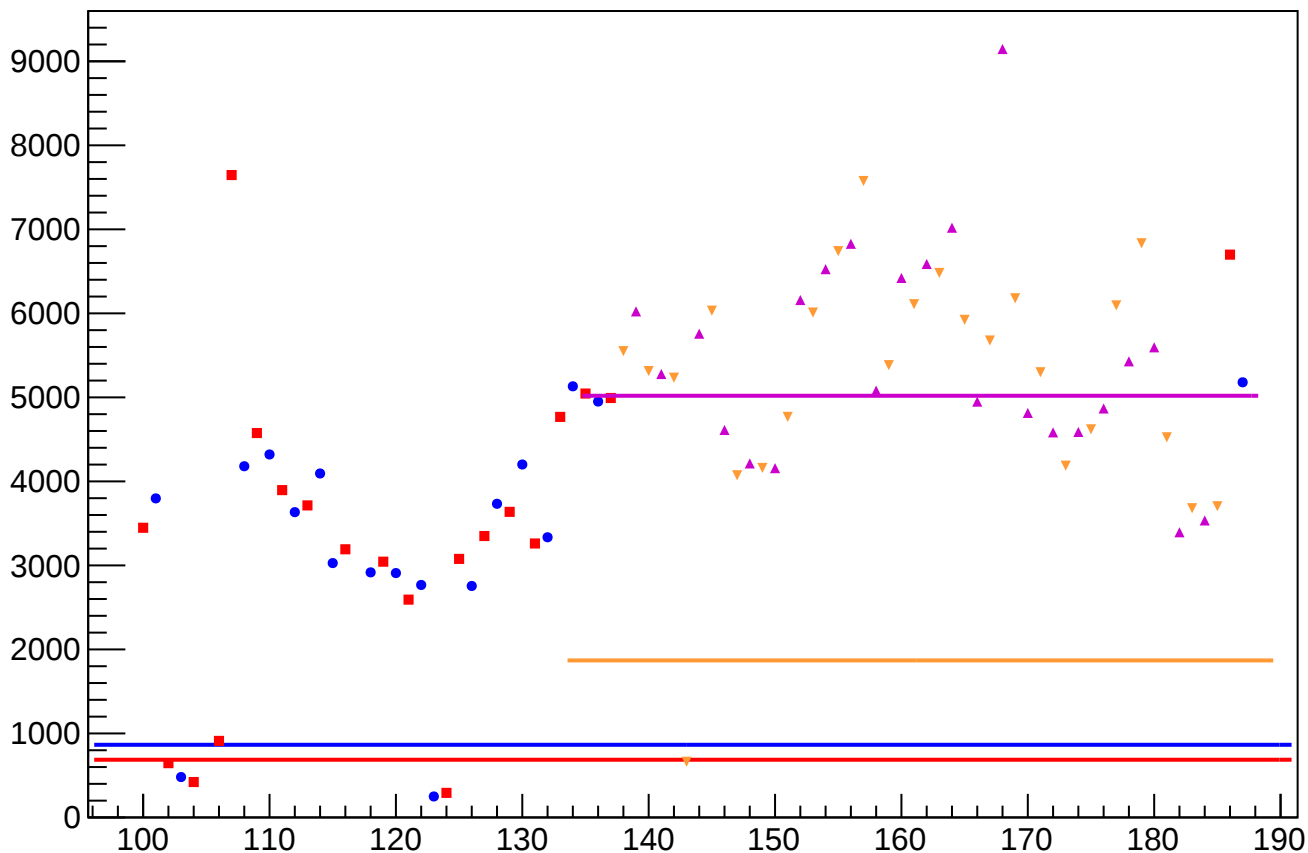
Right: 230.045 $\pm$ 338.020 χ^2 /NDF: 44.4/37

In: 275.562 $\pm$ 494.773 χ^2 /NDF:31.8/40

Out: -248.633 $\pm$ 360.141 χ^2 /NDF:61.0/44

All: -67.088 $\pm$ 291.173 χ^2 /NDF: 93.5/85

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 864.894 $\pm$ 0.382 χ^2/NDF : 8336440.9/17

Left Out: 1868.983 $\pm$ 0.458 χ^2/NDF : 19852416.6/24

Right Out: 686.937 $\pm$ 0.306 χ^2/NDF : 8970045.1/19

Left In: 5019.114 $\pm$ 0.871 χ^2/NDF : 1569031.9/22

Left: 2550.597 $\pm$ 0.405 χ^2/NDF : 31661059.7/47

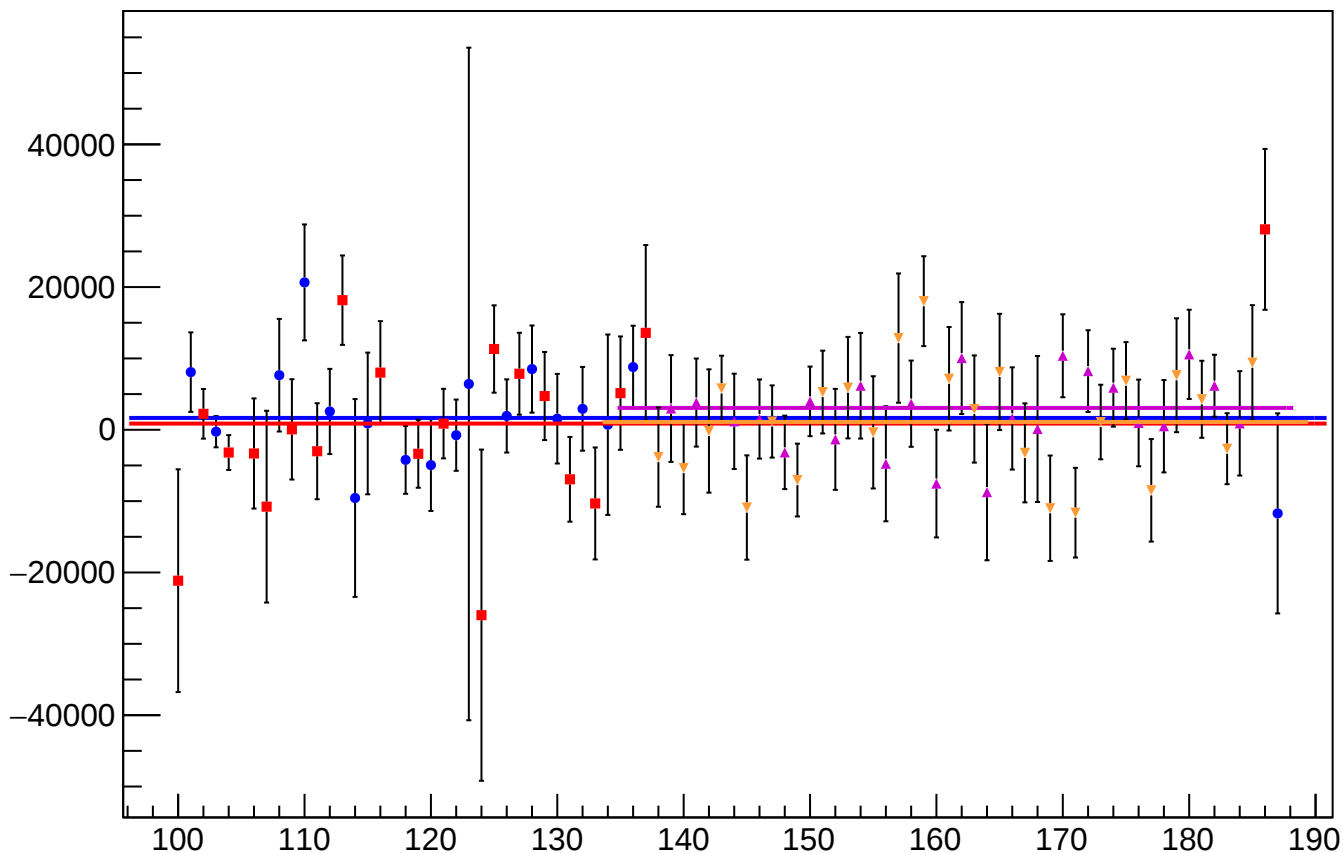
Right: 756.609 $\pm$ 0.239 χ^2/NDF : 17438545.4/37

In: 1534.454 $\pm$ 0.350 χ^2/NDF : 28967476.7/40

Out: 1052.503 $\pm$ 0.255 χ^2/NDF : 33424990.9/44

All: 1219.418 $\pm$ 0.206 χ^2/NDF : 63632926.1/86

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: 868.289+/-1280.089 χ^2/NDF : 32.8/19

Left In: 3064.775+/-1318.173 χ^2/NDF : 12.6/22

Left: 2045.291+/-915.742 χ^2/NDF : 45.7/47

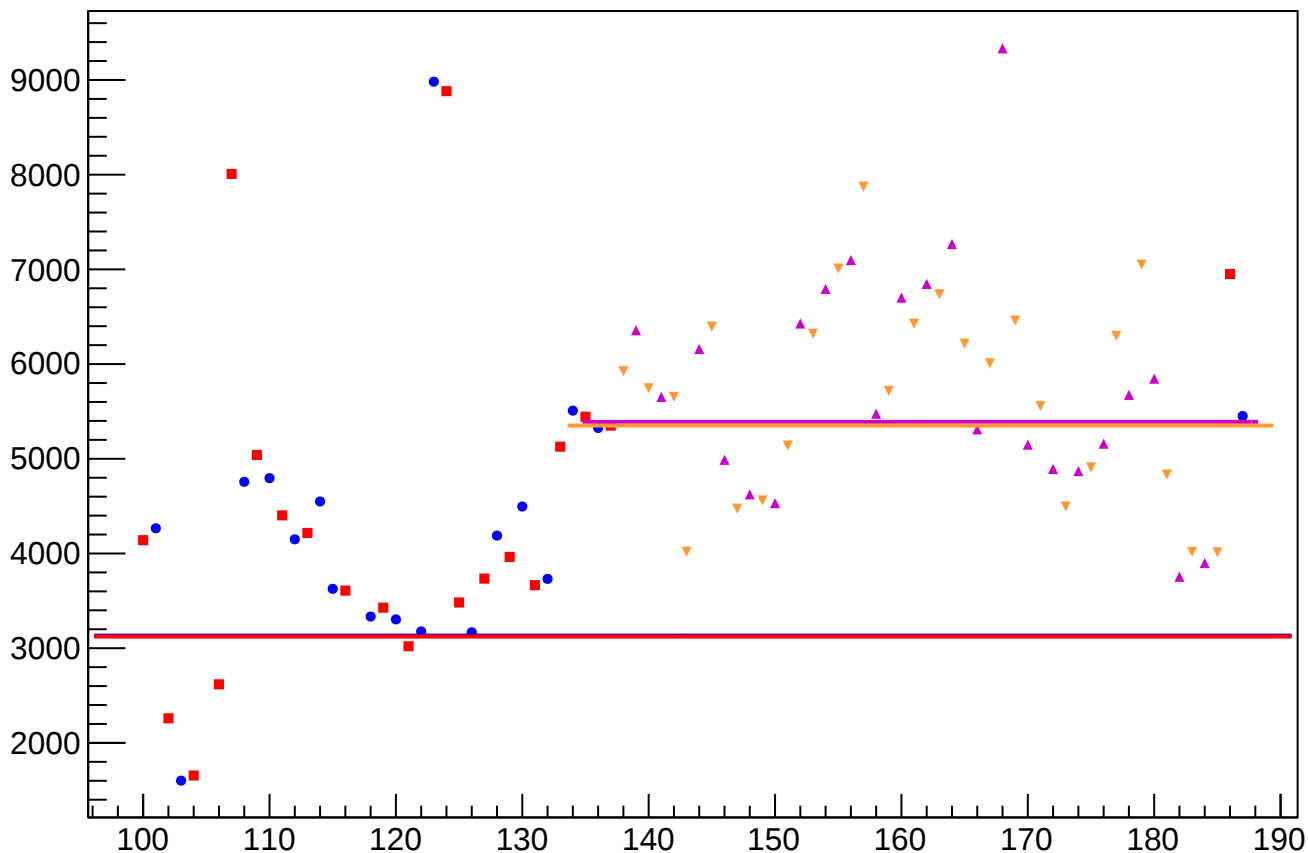
Right: 1256.164+/-914.712 χ^2/NDF : 48.4/37

In: 2357.133+/-928.309 χ^2/NDF : 28.6/40

Out: 981.921+/-902.683 χ^2/NDF : 64.7/44

All: 1650.284+/-647.163 χ^2/NDF : 94.4/85

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: 3122.919 $\pm$ 0.892 χ^2 /NDF: 2240688.5/19

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

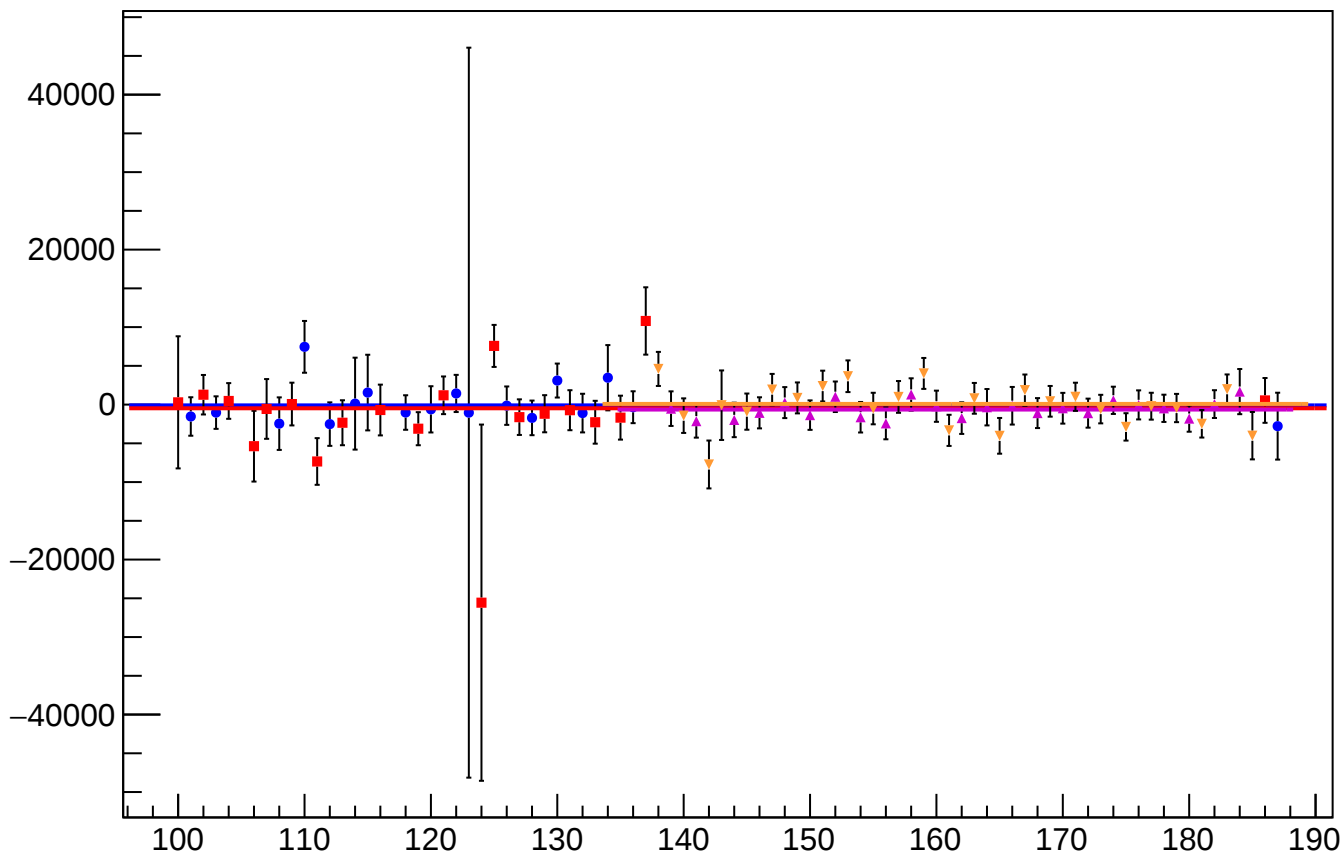
Right: 3127.745 $\pm$ 0.642 χ^2 /NDF: 4178463.2/37

In: 4252.185 $\pm$ 0.656 χ^2 /NDF: 6202480.4/40

Out: 4226.857 $\pm$ 0.634 χ^2 /NDF: 6572018.7/44

All: 4239.075 $\pm$ 0.456 χ^2 /NDF: 12775269.8/86

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: -476.623 ± 646.443 χ^2/NDF : 27.2/19

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

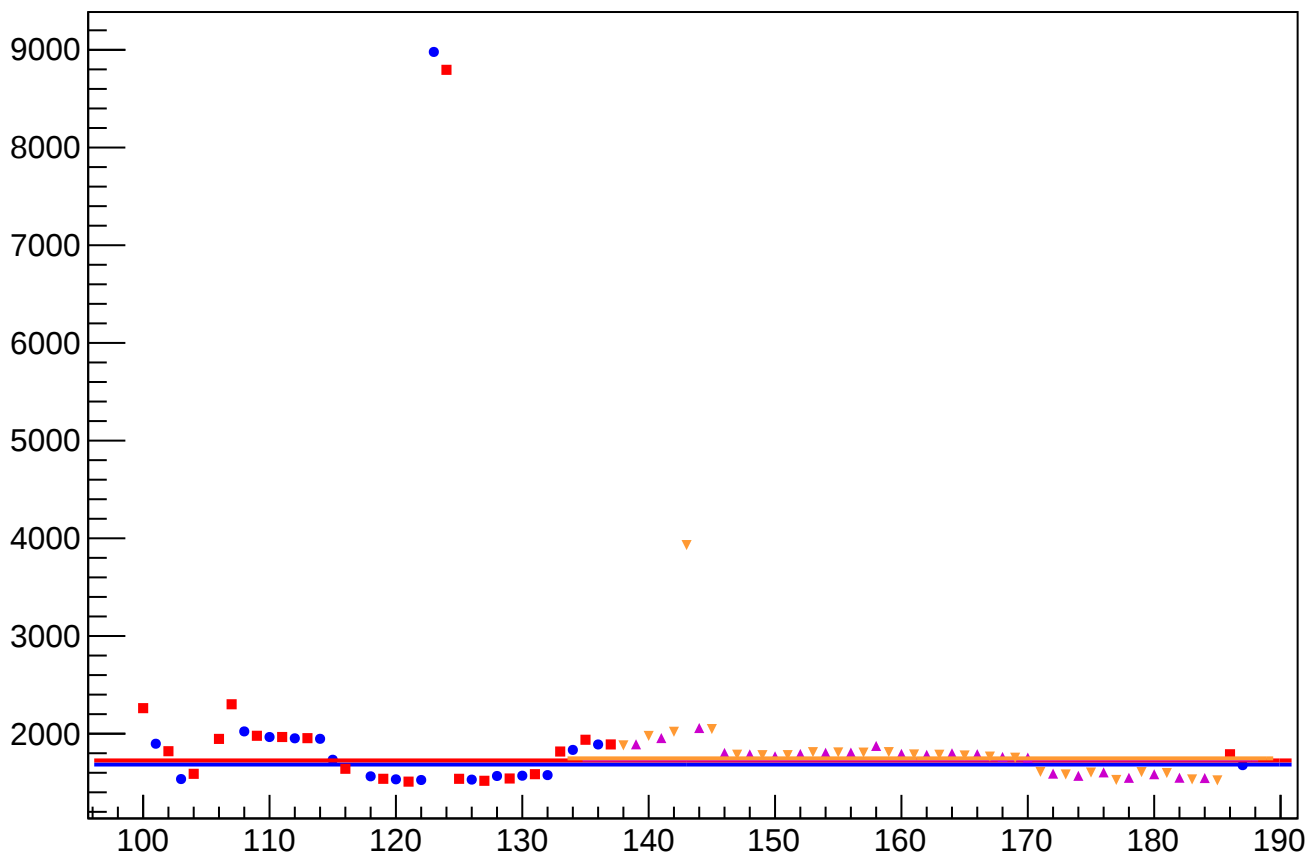
Right: -291.573 ± 460.153 χ^2/NDF : 38.9/37

In: -484.567 ± 352.173 χ^2/NDF : 18.2/40

Out: -76.103 ± 347.154 χ^2/NDF : 63.8/44

All: -277.404 ± 247.231 χ^2/NDF : 82.7/85

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: 1726.317+/-0.455 χ^2/NDF : 393557.1/19

Left In: 1735.540+/-0.295 χ^2/NDF : 206766.6/22

Left: 1741.517+/-0.207 χ^2/NDF : 905766.2/47

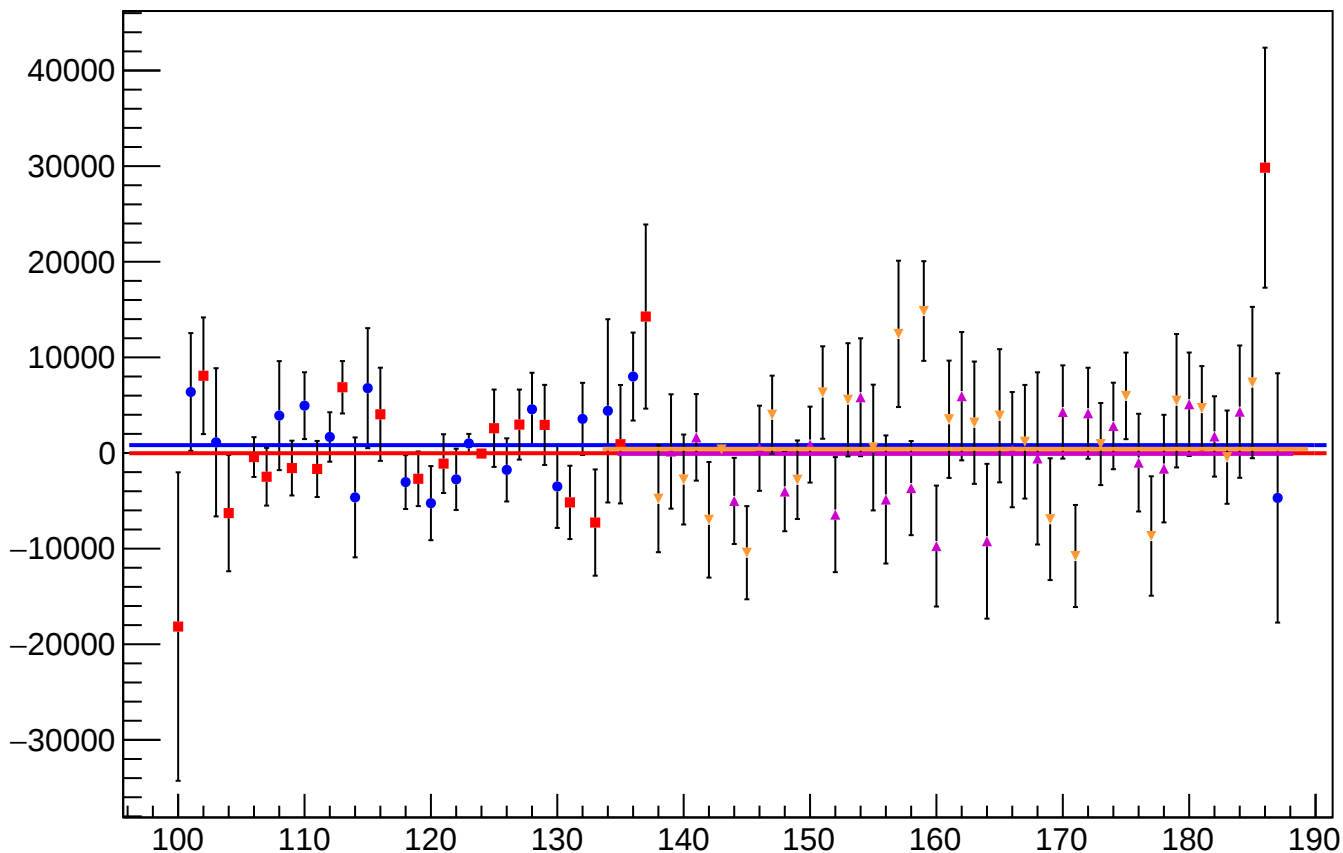
Right: 1705.784+/-0.325 χ^2/NDF : 591722.4/37

In: 1720.798+/-0.249 χ^2/NDF : 409415.2/40

Out: 1741.227+/-0.245 χ^2/NDF : 1093260.8/44

All: 1731.171+/-0.175 χ^2/NDF : 1506093.5/85

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: -23.336+/-357.163 χ^2/NDF : 26.4/19

Left In: -88.508+/-1094.838 χ^2/NDF : 13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

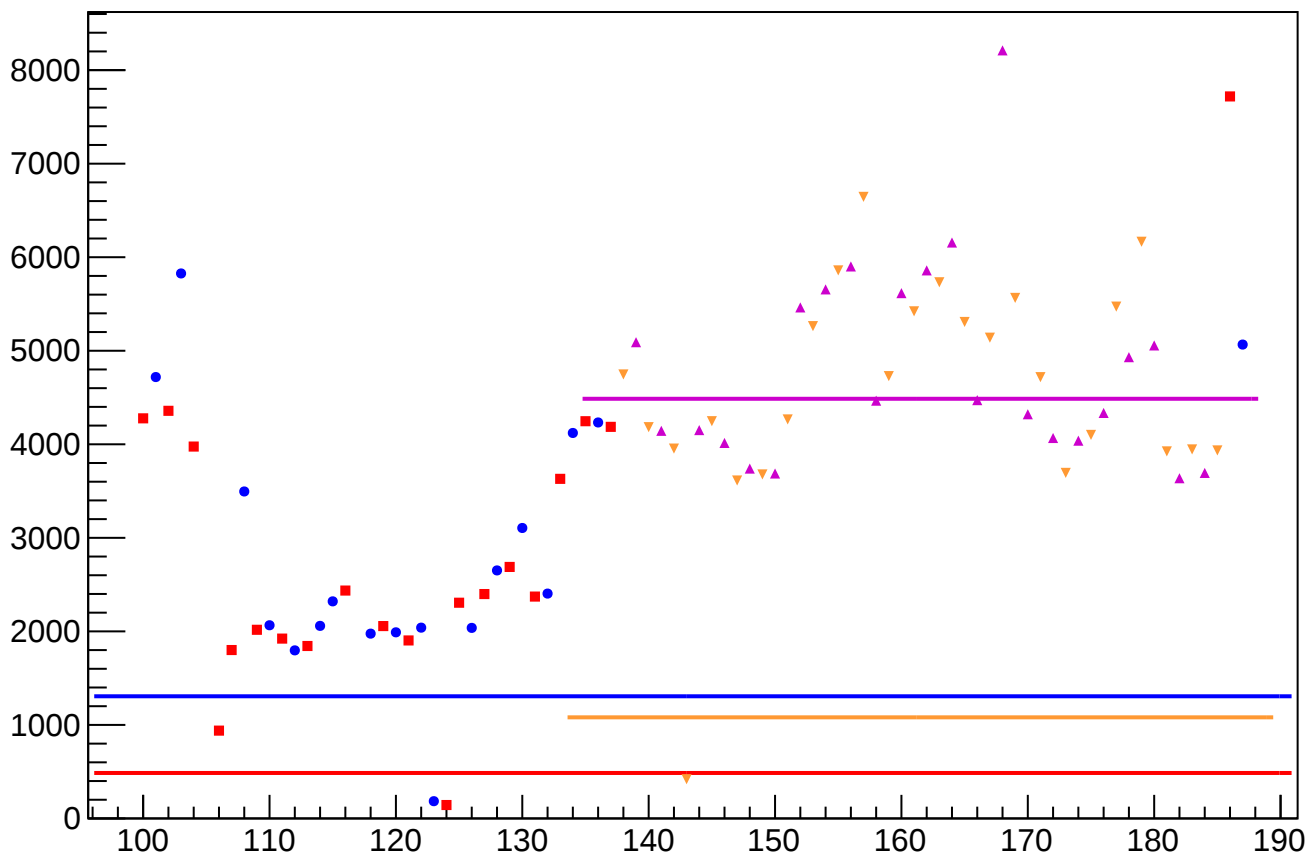
Right: 149.005+/-318.682 χ^2/NDF : 43.3/37

In: 554.702+/-593.217 χ^2/NDF : 29.7/40

Out: 161.398+/-277.387 χ^2/NDF : 61.0/44

All: 231.964+/-251.273 χ^2/NDF : 91.0/85

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: 486.265+/-0.253

χ^2/NDF : 10781408.1/19

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289

χ^2/NDF : 42294704.7/47

Right: 653.408+/-0.225

χ^2/NDF : 19606107.3/37

In: 2239.835+/-0.419

χ^2/NDF : 19780472.9/40

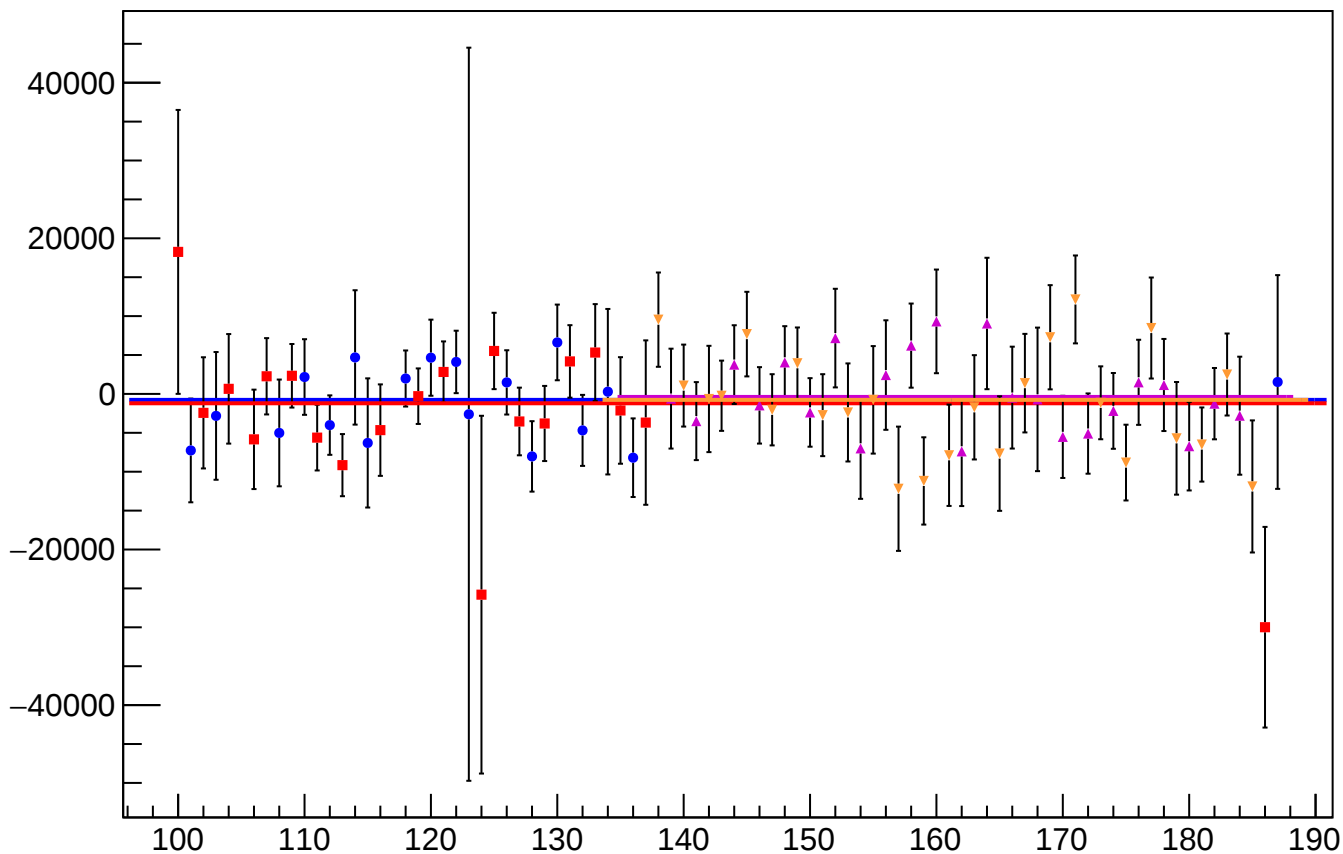
Out: 722.276+/-0.196

χ^2/NDF : 37438328.7/44

All: 994.553+/-0.178

χ^2/NDF : 67959103.2/85

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: -1204.259+/-1189.090 χ^2/NDF : 20.6/19

Left In: -388.944+/-1186.300 χ^2/NDF : 14.2/22

Left: -583.764+/-824.733 χ^2/NDF : 44.2/47

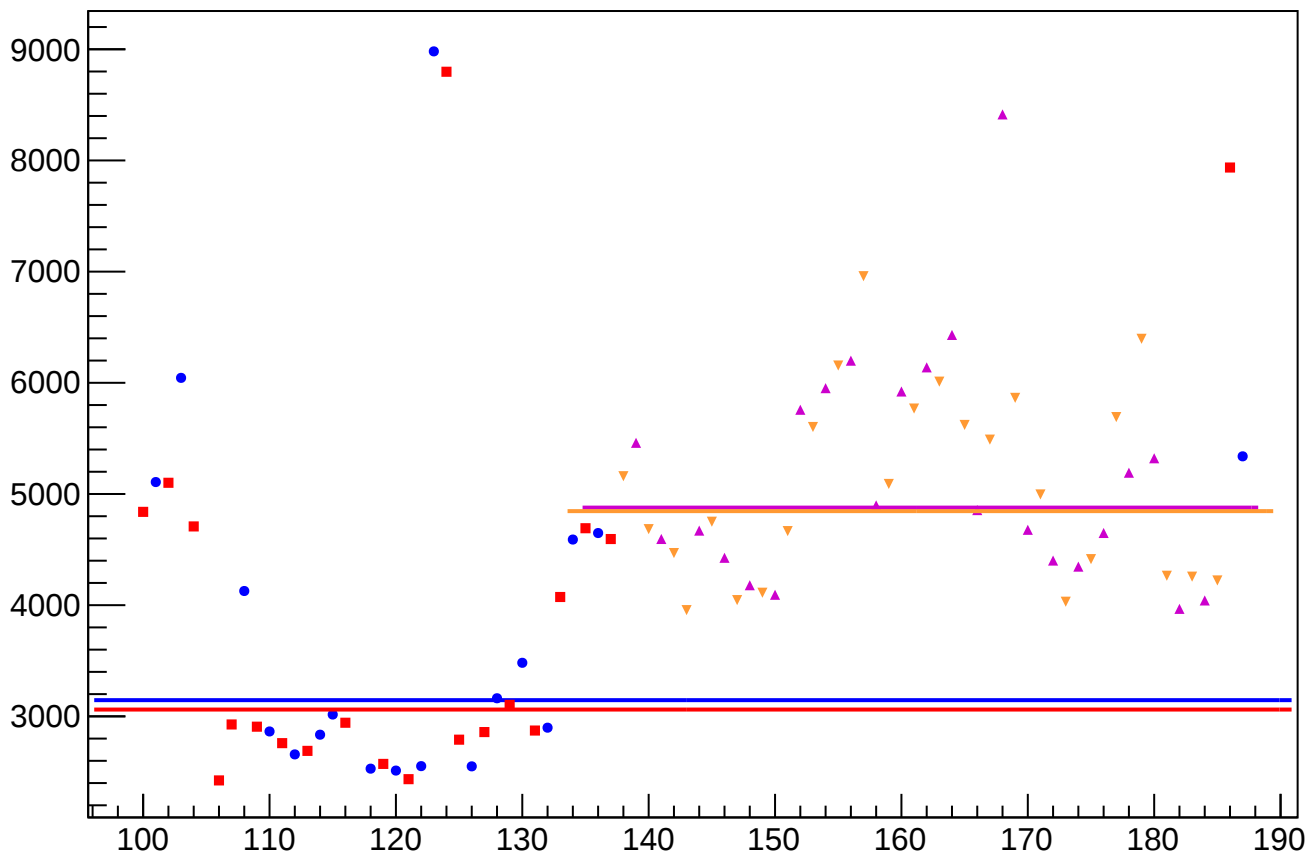
Right: -998.394+/-864.859 χ^2/NDF : 35.4/37

In: -566.644+/-863.784 χ^2/NDF : 29.0/40

Out: -977.311+/-825.669 χ^2/NDF : 50.6/44

All: -781.237+/-596.856 χ^2/NDF : 79.7/85

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: 3061.122+/-0.830 χ^2/NDF : 1079678.2/19

Left In: 4877.456+/-0.839 χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583 χ^2/NDF : 1868533.9/47

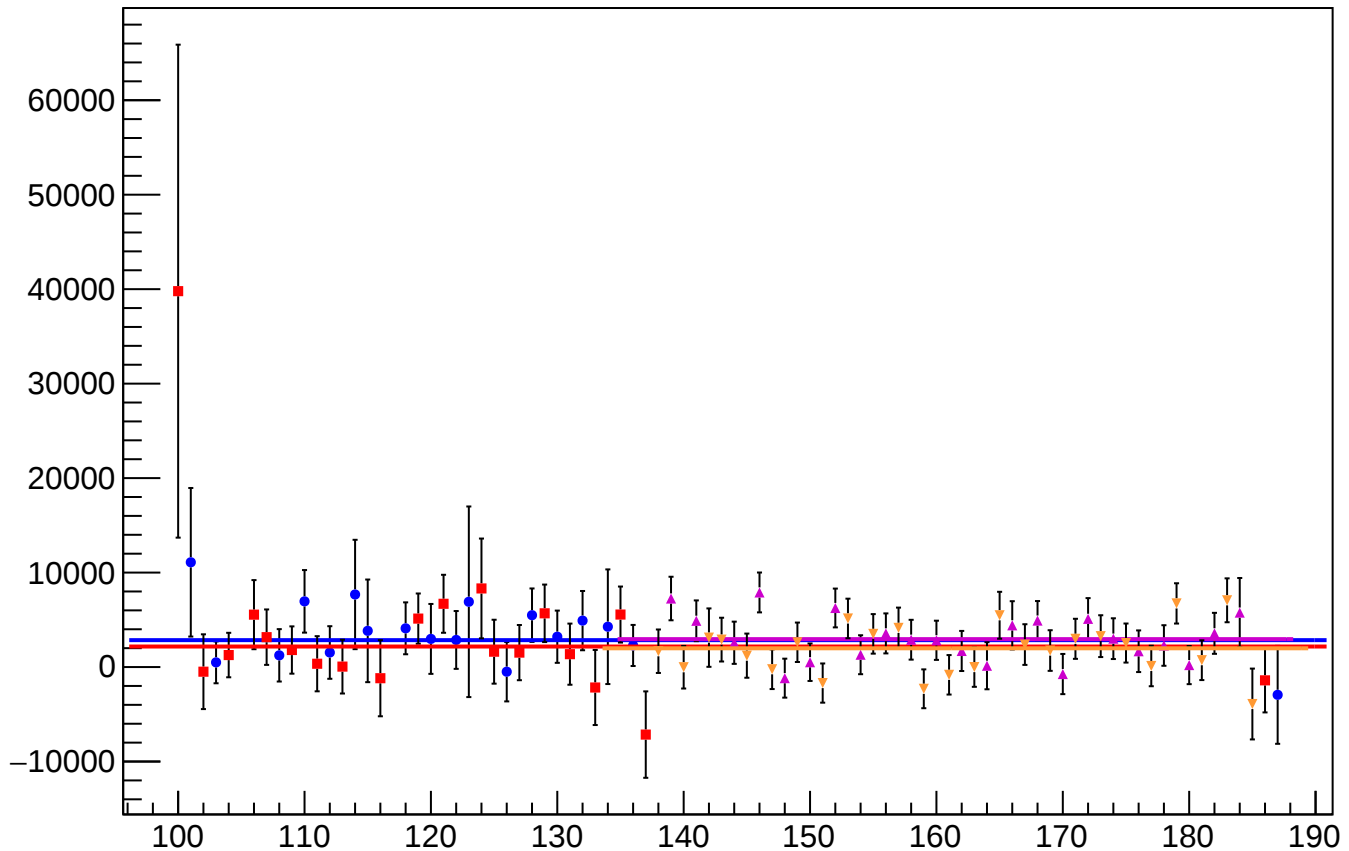
Right: 3100.442+/-0.607 χ^2/NDF : 2078688.7/37

In: 4063.844+/-0.611 χ^2/NDF : 3955158.5/40

Out: 3974.170+/-0.580 χ^2/NDF : 4352038.4/44

All: 4016.714+/-0.421 χ^2/NDF : 8318525.6/85

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: 2173.612+/-725.081 χ^2/NDF : 19.3/19

Left In: 2955.900+/-454.551 χ^2/NDF :28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

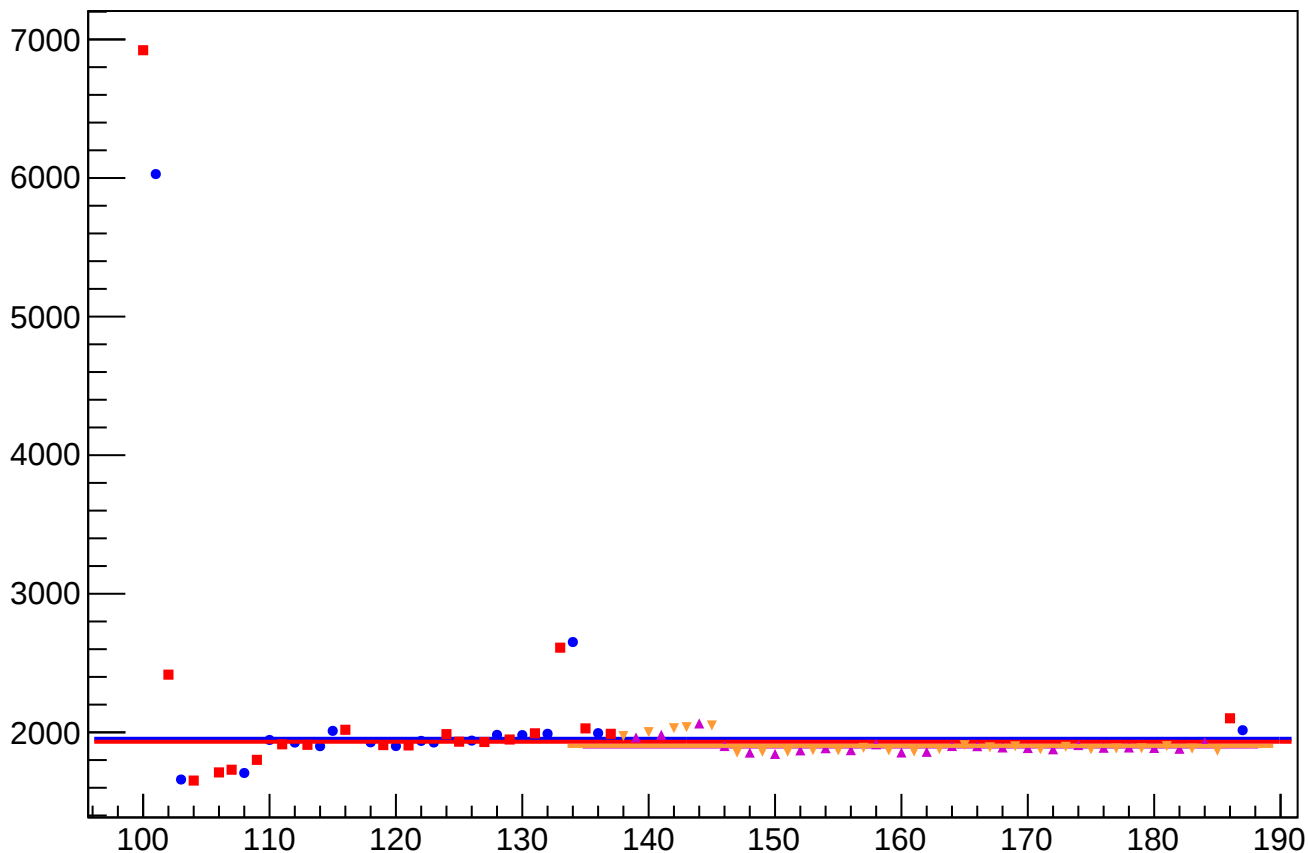
Right: 2490.984+/-527.548 χ^2/NDF : 29.0/37

In: 2927.950+/-391.301 χ^2/NDF :37.7/40

Out: 2036.641+/-378.146 χ^2/NDF :51.8/44

All: 2467.061+/-271.921 χ^2/NDF : 92.2/85

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: 1932.064+/-0.512 χ^2/NDF : 222710.2/19

Left In: 1897.456+/-0.321 χ^2/NDF : 21180.1/22

Left: 1899.726+/-0.224 χ^2/NDF : 51724.3/47

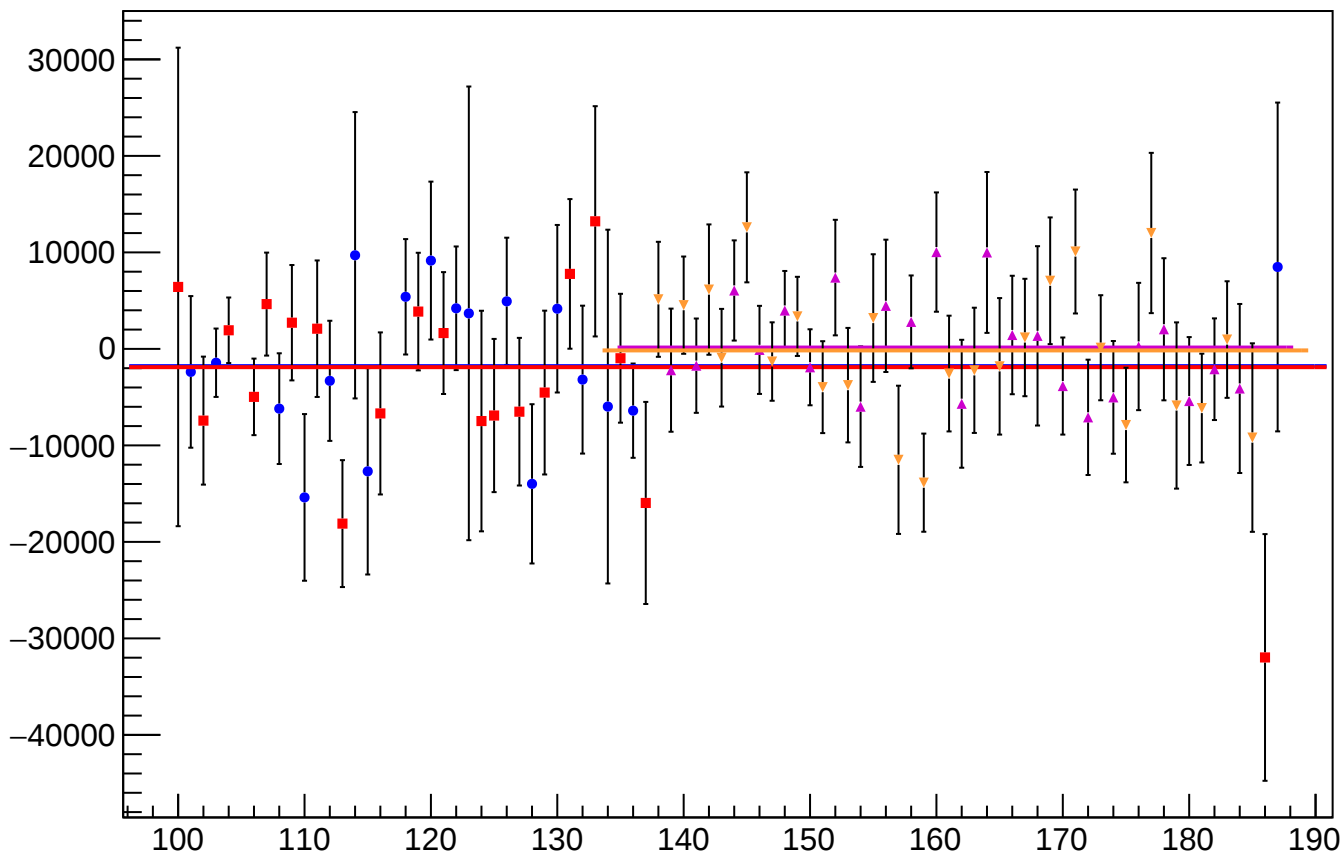
Right: 1942.128+/-0.373 χ^2/NDF : 841215.1/37

In: 1911.967+/-0.277 χ^2/NDF : 646732.8/40

Out: 1910.119+/-0.267 χ^2/NDF : 255687.8/44

All: 1911.011+/-0.192 χ^2/NDF : 902443.8/85

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: -1894.104+/-1469.831 χ^2/NDF : 24.3/19

Left In: 139.000+/-1190.889 χ^2/NDF : 14.7/22

Left: -12.420+/-833.090 χ^2/NDF : 44.2/47

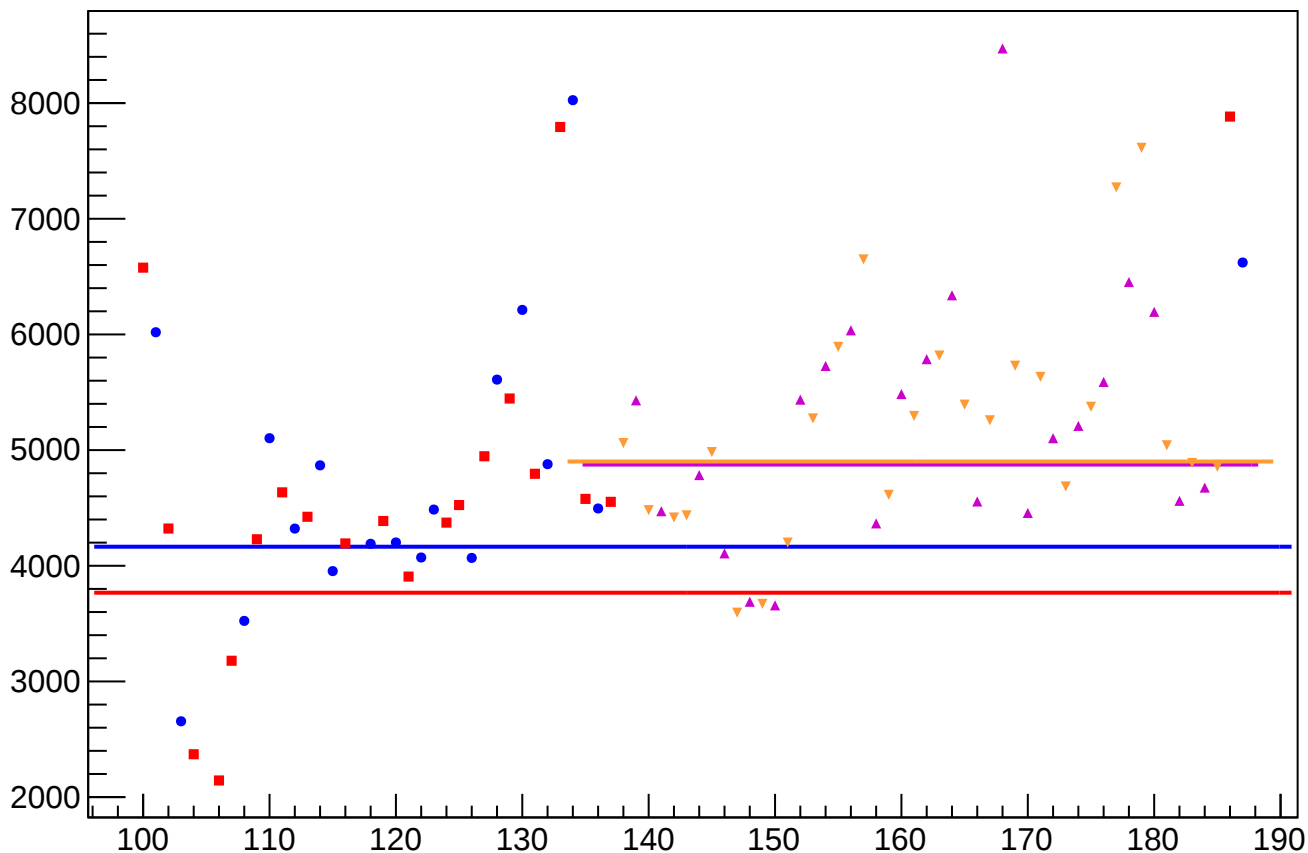
Right: -1847.100+/-1099.607 χ^2/NDF : 38.3/37

In: -517.058+/-967.066 χ^2/NDF : 29.6/40

Out: -828.163+/-913.401 χ^2/NDF : 54.7/44

All: -681.481+/-664.034 χ^2/NDF : 84.3/85

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4164.731 $\pm$ 1.172 χ^2 /NDF: 860134.3/17

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF:1136916.0/24

Right Out: 3767.121 $\pm$ 1.039 χ^2 /NDF: 1486938.9/19

Left In: 4875.112 $\pm$ 0.842 χ^2 /NDF:1229198.0/22

Left: 4888.513 $\pm$ 0.589 χ^2 /NDF: 2366610.1/47

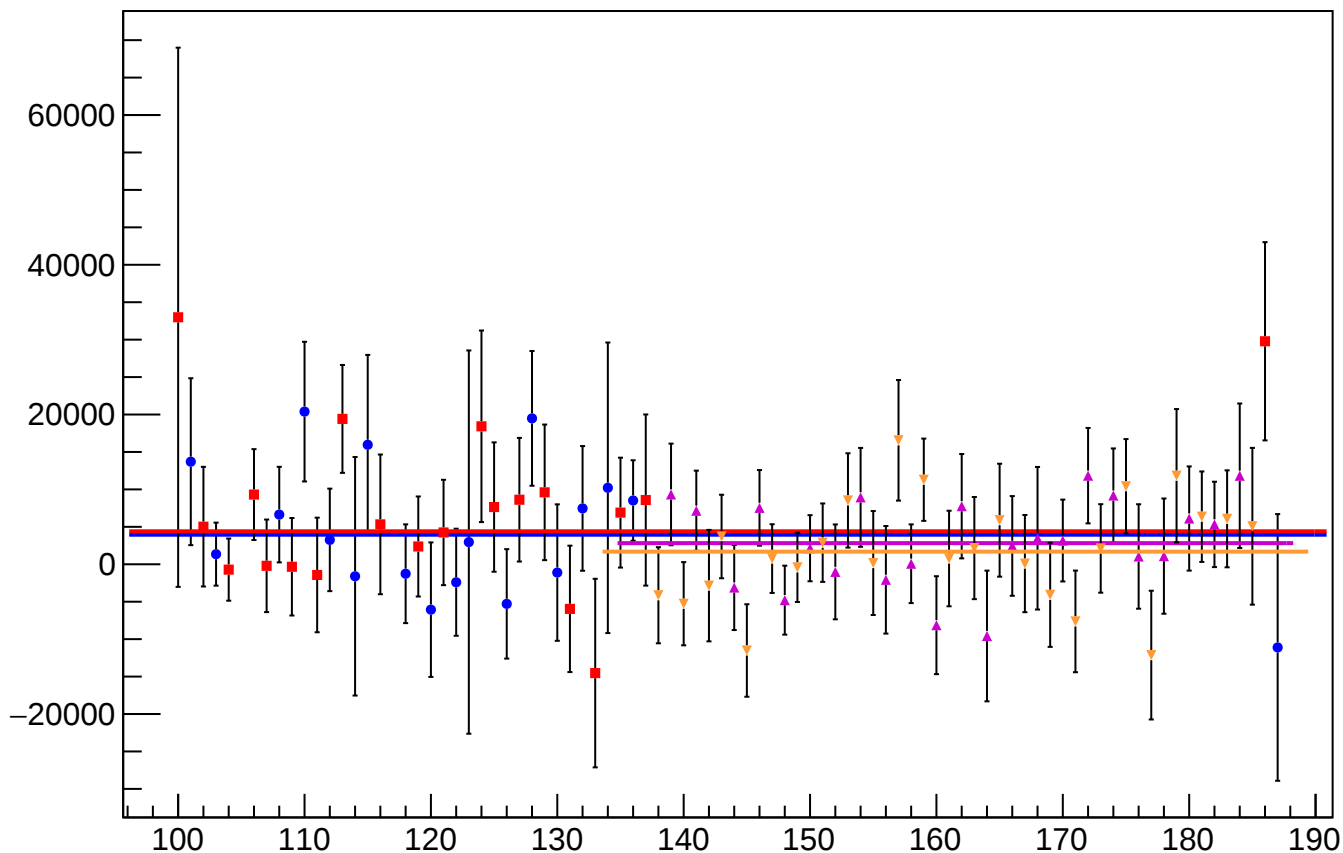
Right: 3942.197 $\pm$ 0.778 χ^2 /NDF: 2411516.4/37

In: 4633.178 $\pm$ 0.684 χ^2 /NDF:2331700.7/40

Out: 4463.339 $\pm$ 0.646 χ^2 /NDF:3354898.8/44

All: 4543.416 $\pm$ 0.470 χ^2 /NDF: 5719201.7/85

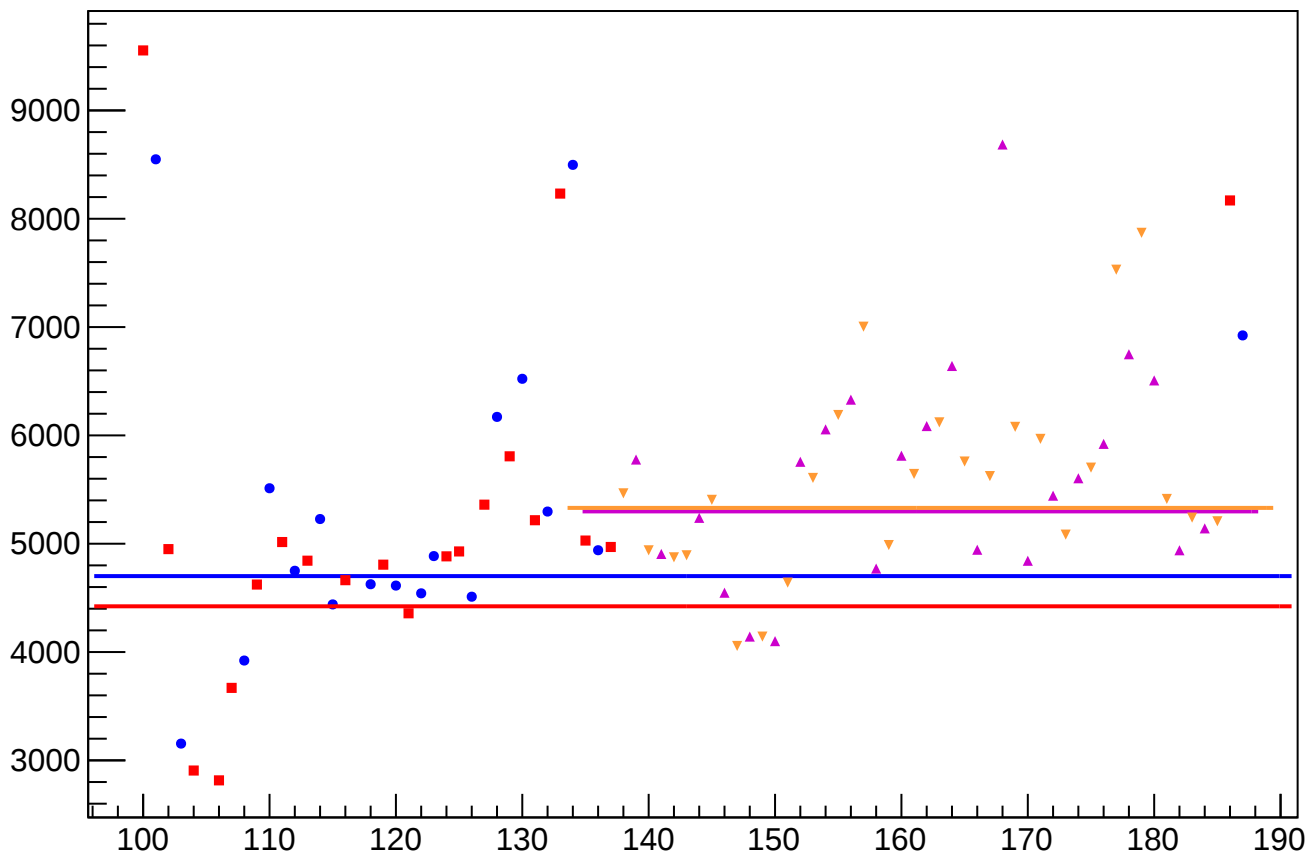
asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3949.322+/-1865.921 χ^2/NDF : 14.8/17
 Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24
 Right Out: 4403.721+/-1713.839 χ^2/NDF : 18.5/19
 Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47
 Right: 4195.791+/-1262.213 χ^2/NDF : 33.4/37
 In: 3187.368+/-1060.221 χ^2/NDF : 33.1/40
 Out: 2641.513+/-1016.033 χ^2/NDF : 45.6/44
 All: 2902.829+/-733.568 χ^2/NDF : 78.8/85

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: 4422.208 $\pm$ 1.205 χ^2/NDF : 996478.0/19

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

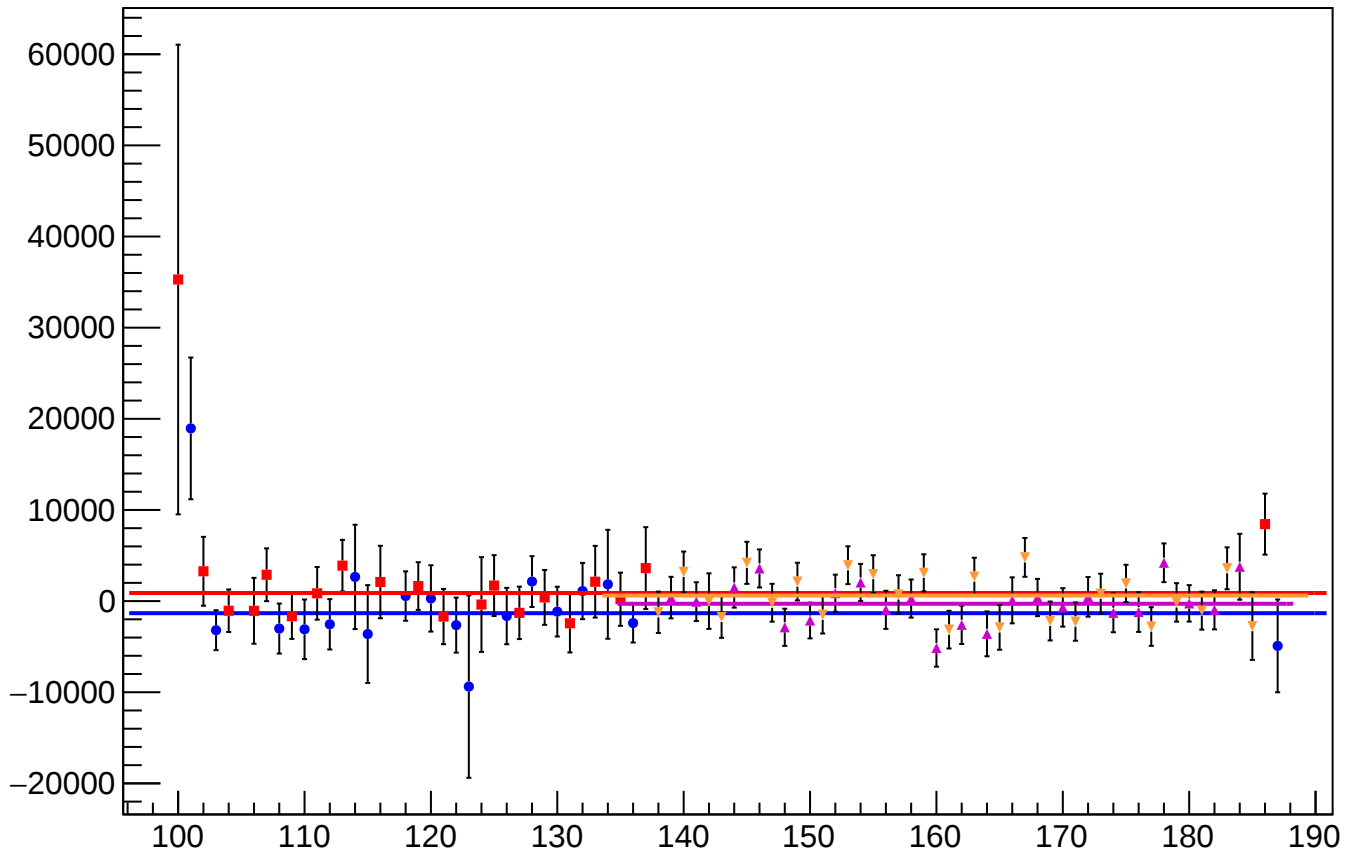
Right: 4549.019 $\pm$ 0.890 χ^2/NDF : 1835341.4/37

In: 5105.499 $\pm$ 0.750 χ^2/NDF :1909288.9/40

Out: 5009.047 $\pm$ 0.717 χ^2/NDF :2231742.9/44

All: 5055.124 $\pm$ 0.518 χ^2/NDF : 4149676.9/85

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: 890.616+/-715.508 χ^2/NDF : 14.2/19

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

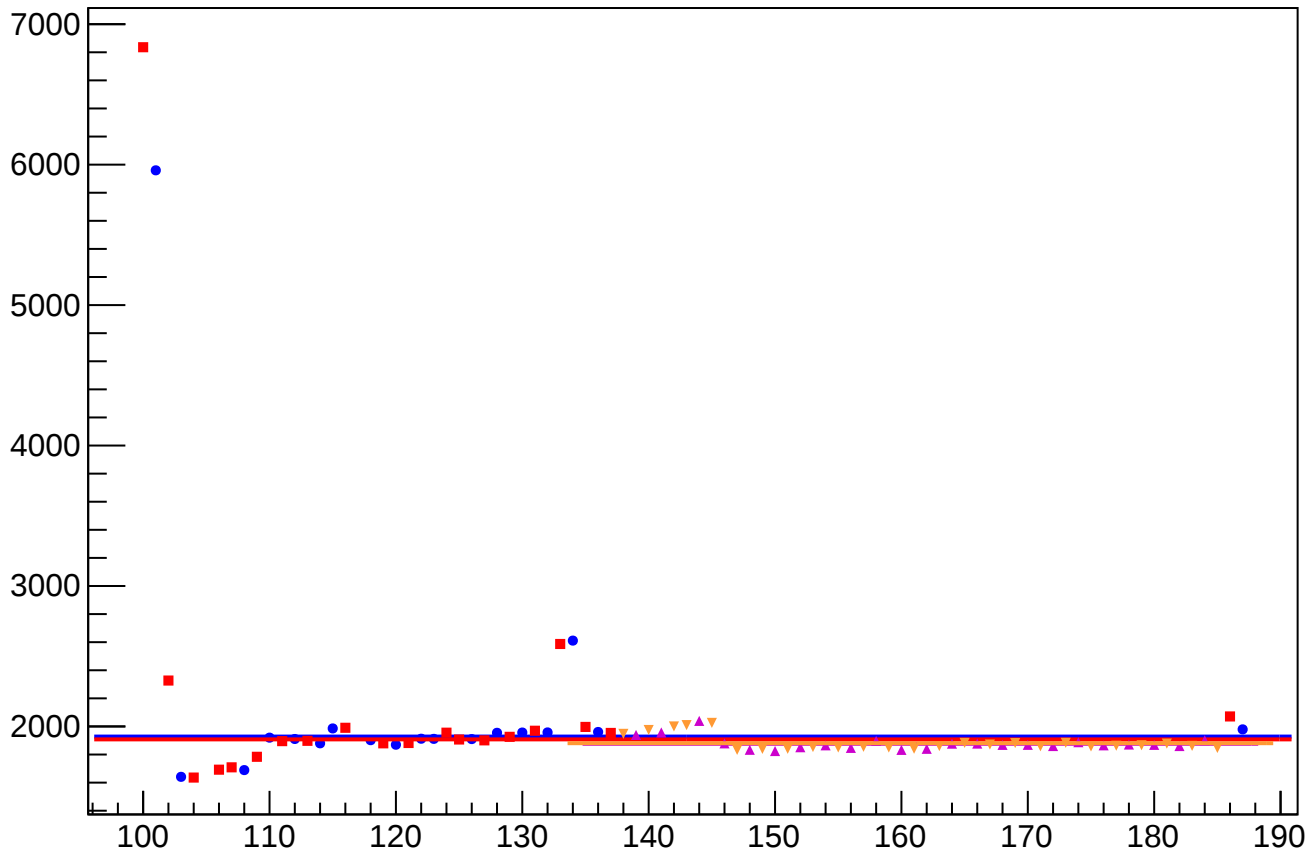
Right: -153.080+/-520.597 χ^2/NDF : 32.5/37

In: -561.661+/-386.795 χ^2/NDF : 38.8/40

Out: 688.241+/-373.728 χ^2/NDF : 47.0/44

All: 84.759+/-268.766 χ^2/NDF : 91.2/85

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1927.859 $\pm$ 0.537 χ^2 /NDF: 616106.5/17

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF: 28655.5/24

Right Out: 1907.923 $\pm$ 0.505 χ^2 /NDF: 215974.4/19

Left In: 1876.685 $\pm$ 0.318 χ^2 /NDF: 20499.7/22

Left: 1878.799 $\pm$ 0.222 χ^2 /NDF: 49241.5/47

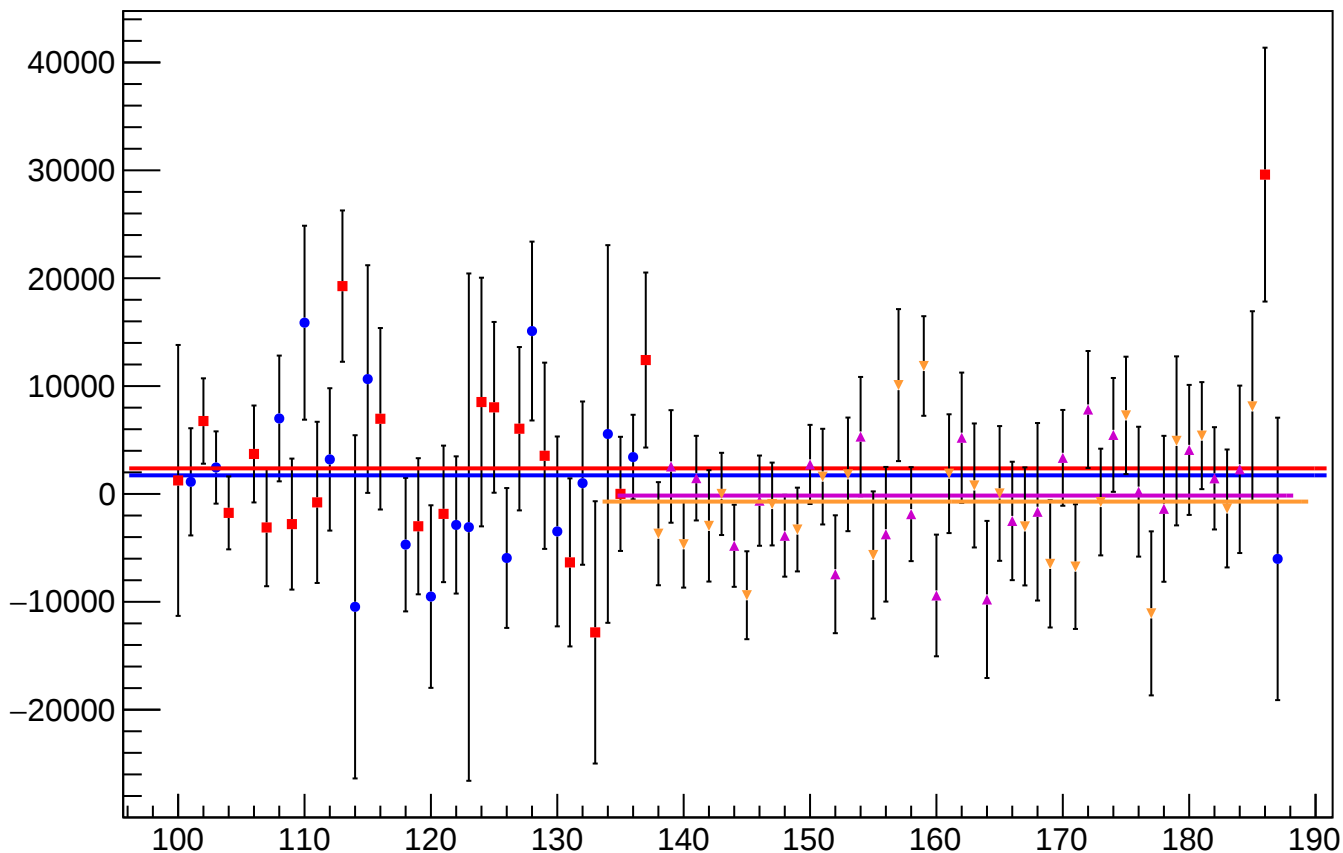
Right: 1917.284 $\pm$ 0.368 χ^2 /NDF: 832813.1/37

In: 1889.979 $\pm$ 0.274 χ^2 /NDF: 643338.4/40

Out: 1888.229 $\pm$ 0.264 χ^2 /NDF: 246725.1/44

All: 1889.074 $\pm$ 0.190 χ^2 /NDF: 890084.6/85

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: 2371.078+/-1405.468 χ^2/NDF : 23.0/19

Left In: -150.495+/-1053.655 χ^2/NDF : 16.9/22

Left: -438.806+/-732.011 χ^2/NDF : 44.2/47

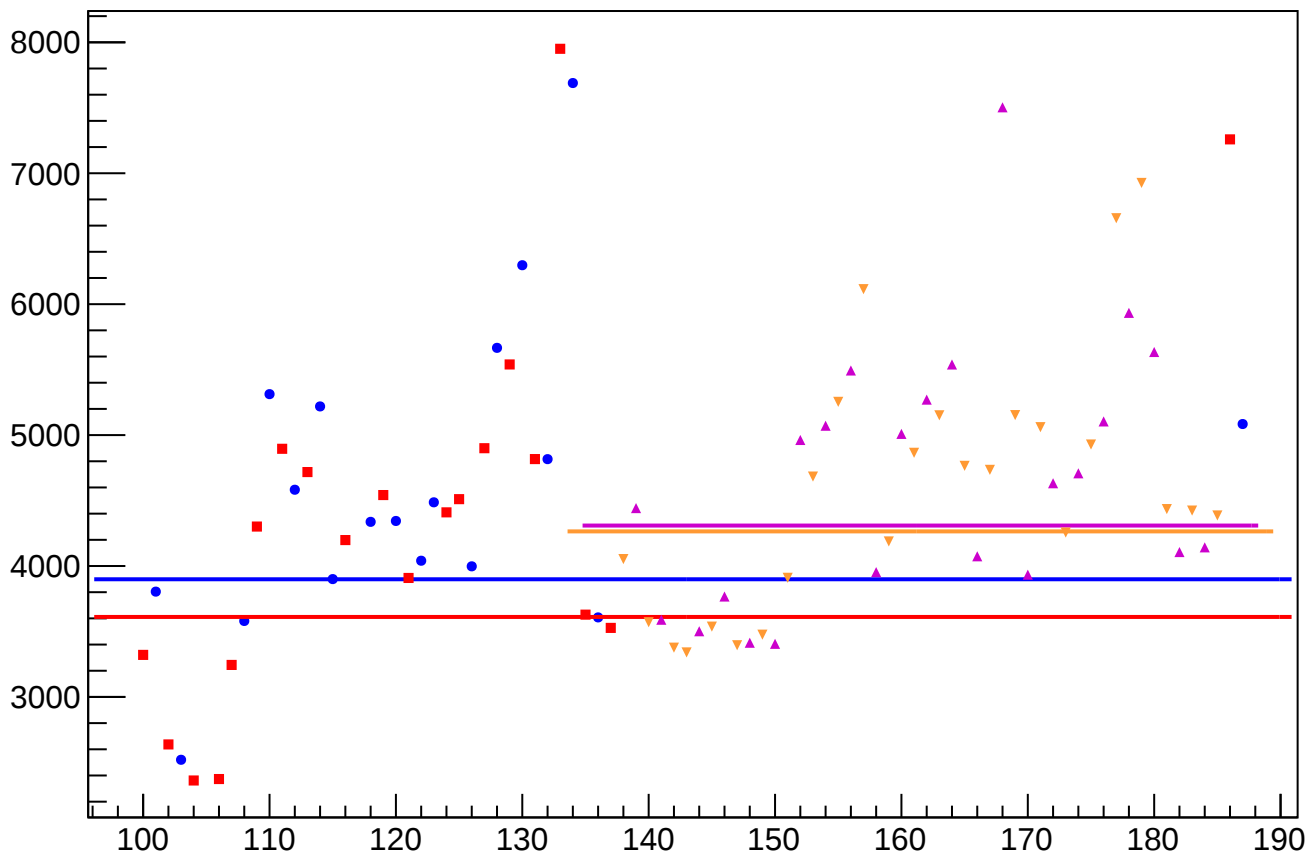
Right: 2079.229+/-1040.871 χ^2/NDF : 36.1/37

In: 442.690+/-871.209 χ^2/NDF : 30.9/40

Out: 351.279+/-824.303 χ^2/NDF : 53.2/44

All: 394.457+/-598.766 χ^2/NDF : 84.2/85

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: 3610.968+/-0.994 χ^2/NDF : 1436960.9/19

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

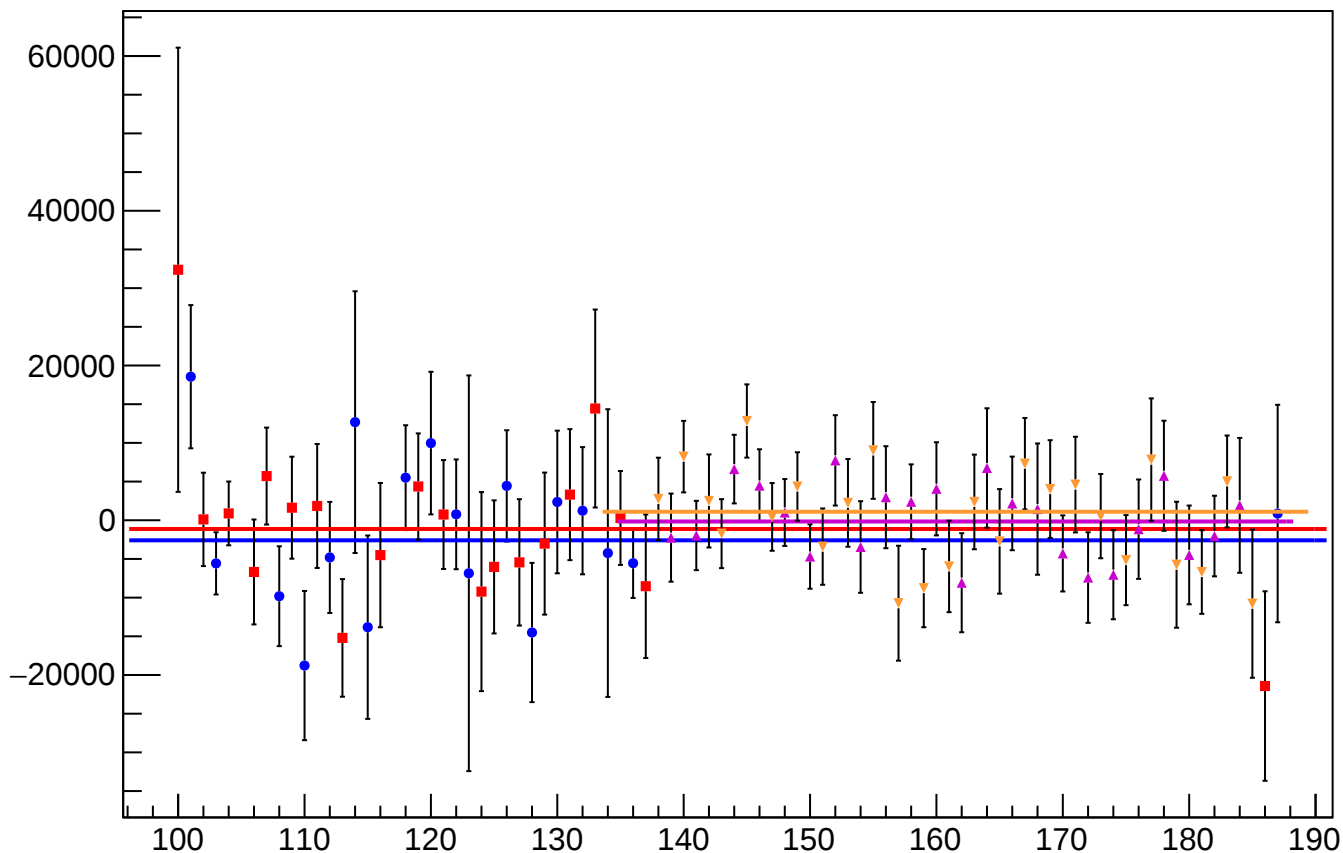
Right: 3740.910+/-0.736 χ^2/NDF : 2313442.9/37

In: 4179.249+/-0.616 χ^2/NDF : 2239680.2/40

Out: 4039.655+/-0.583 χ^2/NDF : 3075490.7/44

All: 4105.593+/-0.423 χ^2/NDF : 5342264.2/85

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -2593.204 ± 1798.478 $\chi^2/\text{NDF}: 18.9/17$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -1127.614 ± 1677.273 $\chi^2/\text{NDF}: 14.3/19$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

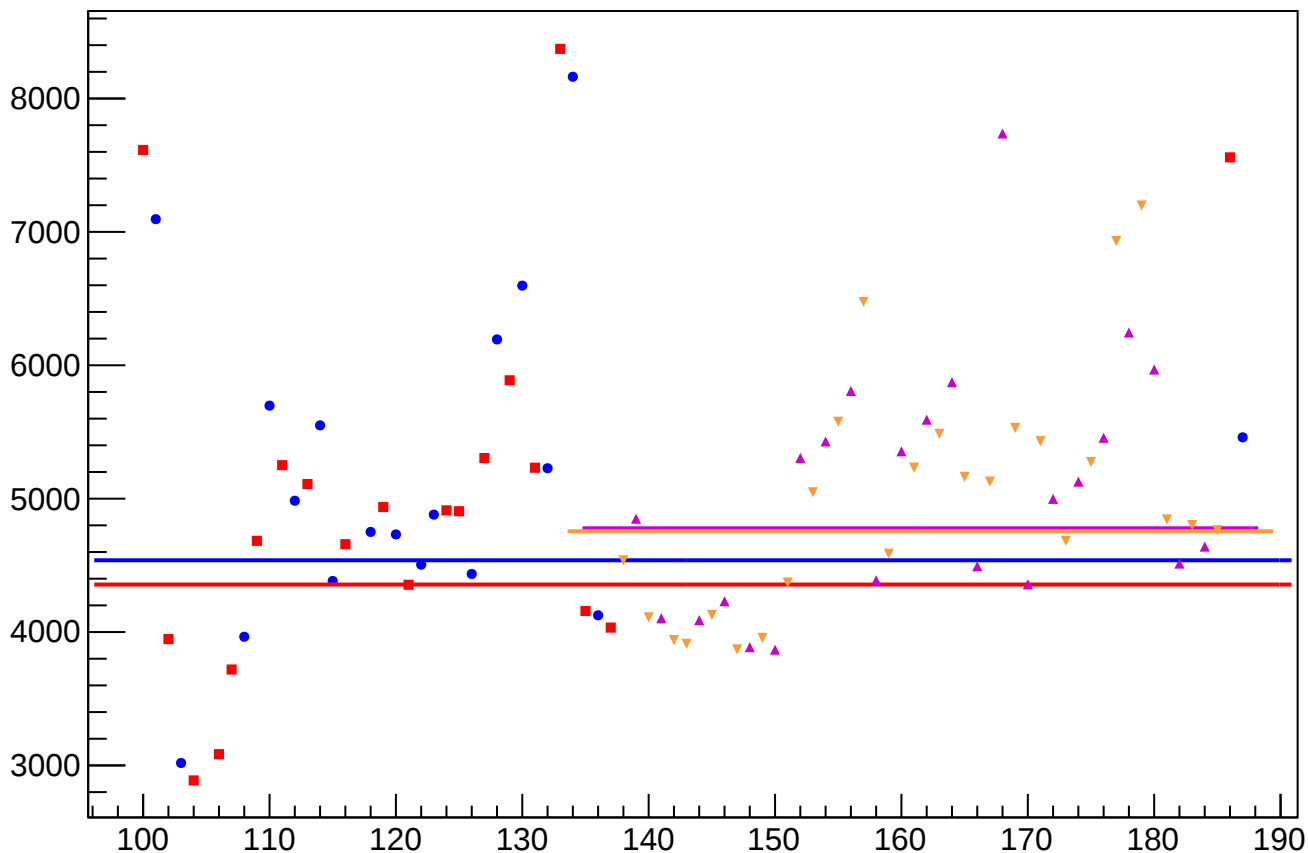
Right: -1809.364 ± 1226.624 $\chi^2/\text{NDF}: 33.6/37$

In: -875.237 ± 975.714 $\chi^2/\text{NDF}: 35.7/40$

Out: 408.907 ± 935.252 $\chi^2/\text{NDF}: 44.1/44$

All: -205.987 ± 675.174 $\chi^2/\text{NDF}: 80.7/85$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4538.120 ± 1.272 $\chi^2/\text{NDF}: 785357.4/17$

Left Out: 4755.383 ± 0.797 $\chi^2/\text{NDF}: 953328.0/24$

Right Out: 4356.145 ± 1.180 $\chi^2/\text{NDF}: 912539.4/19$

Left In: 4777.831 ± 0.821 $\chi^2/\text{NDF}: 950291.2/22$

Left: 4766.265 ± 0.572 $\chi^2/\text{NDF}: 1904004.1/47$

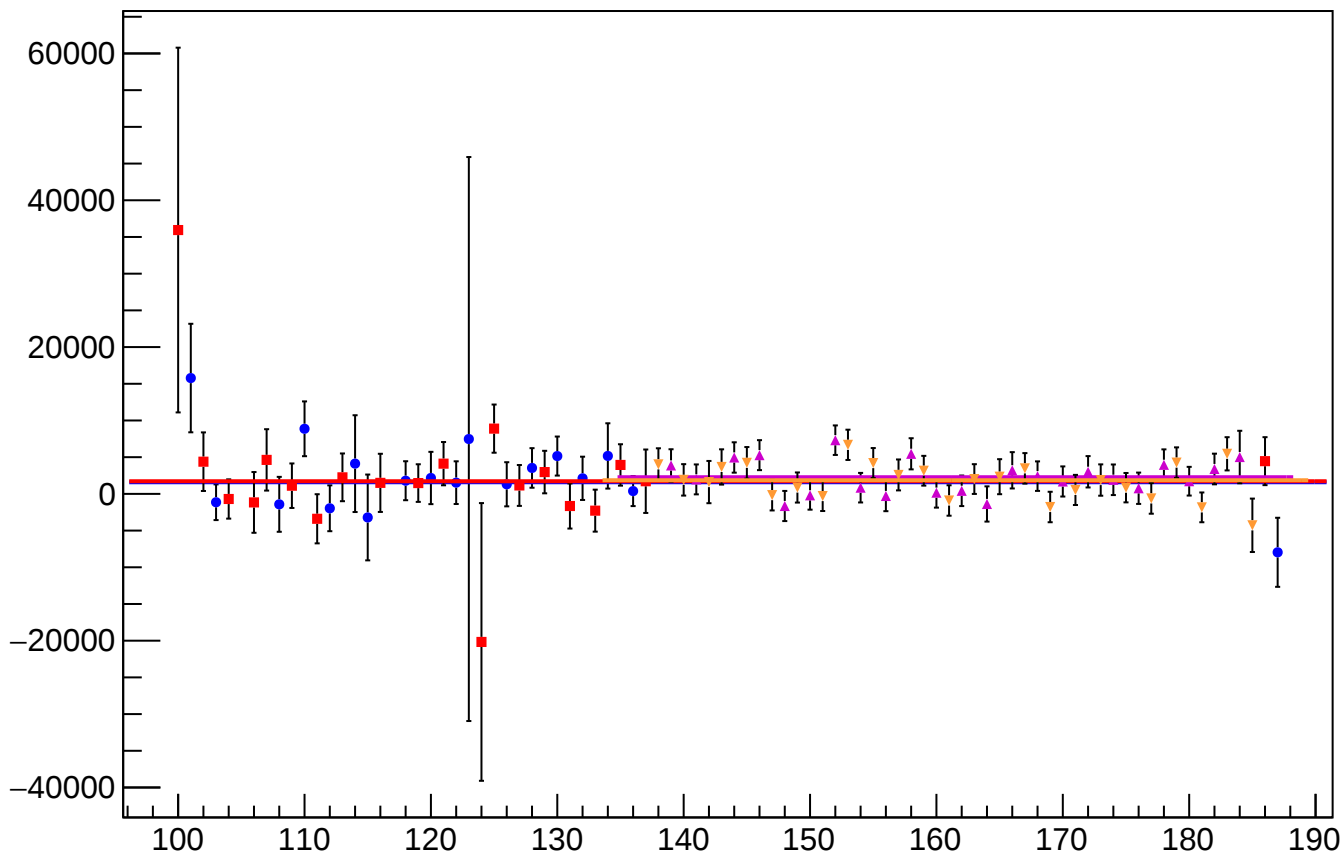
Right: 4440.299 ± 0.865 $\chi^2/\text{NDF}: 1708903.6/37$

In: 4707.277 ± 0.690 $\chi^2/\text{NDF}: 1760721.1/40$

Out: 4630.313 ± 0.660 $\chi^2/\text{NDF}: 1944540.7/44$

All: 4667.100 ± 0.477 $\chi^2/\text{NDF}: 3711757.7/85$

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: 1722.157 $\pm$ 747.677 χ^2 /NDF: 18.0/19

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

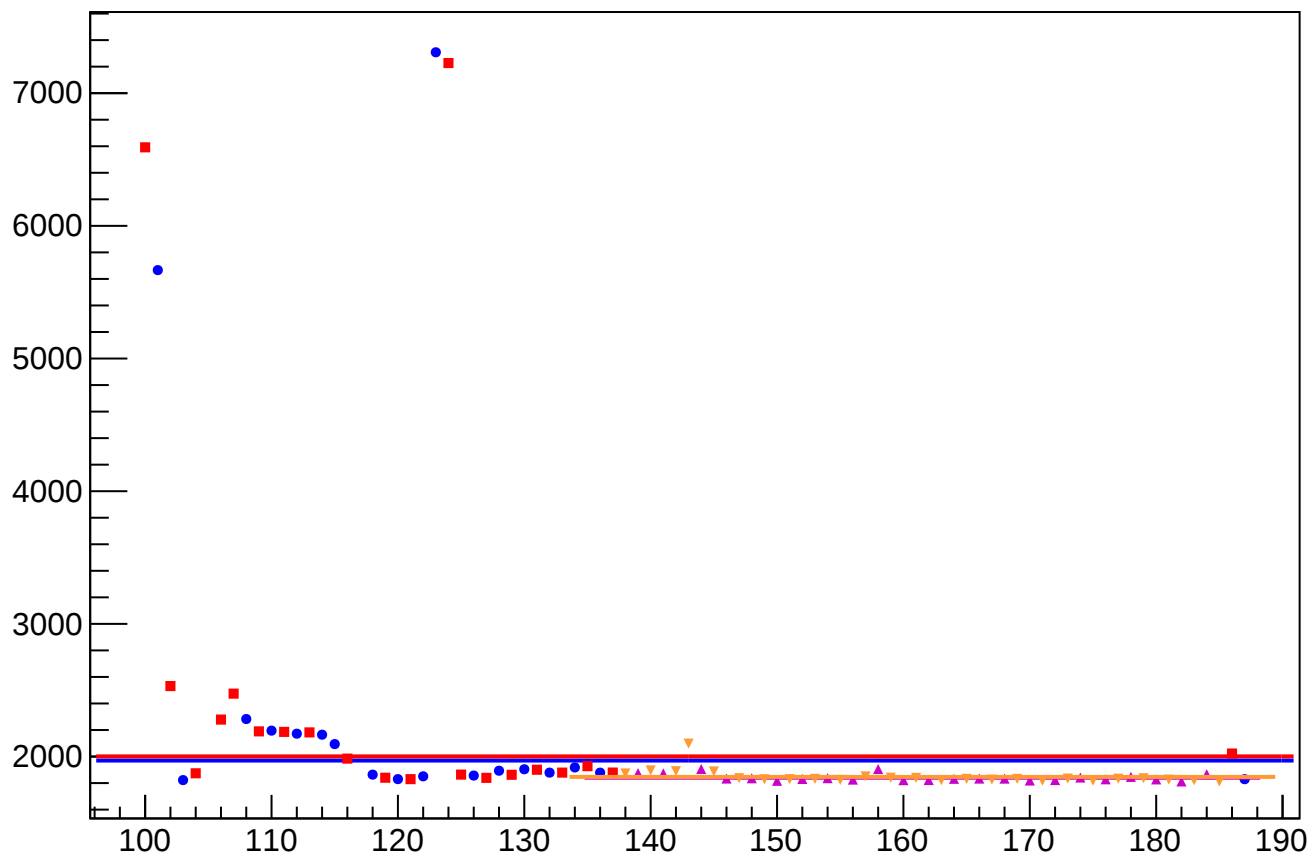
Right: 1655.868 $\pm$ 538.114 χ^2 /NDF: 37.1/37

In: 2100.819 $\pm$ 383.766 χ^2 /NDF:46.5/40

Out: 1823.048 $\pm$ 373.387 χ^2 /NDF:48.1/44

All: 1958.126 $\pm$ 267.618 χ^2 /NDF: 94.8/85

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: 2001.260+/-0.529 χ^2/NDF : 353712.4/19

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

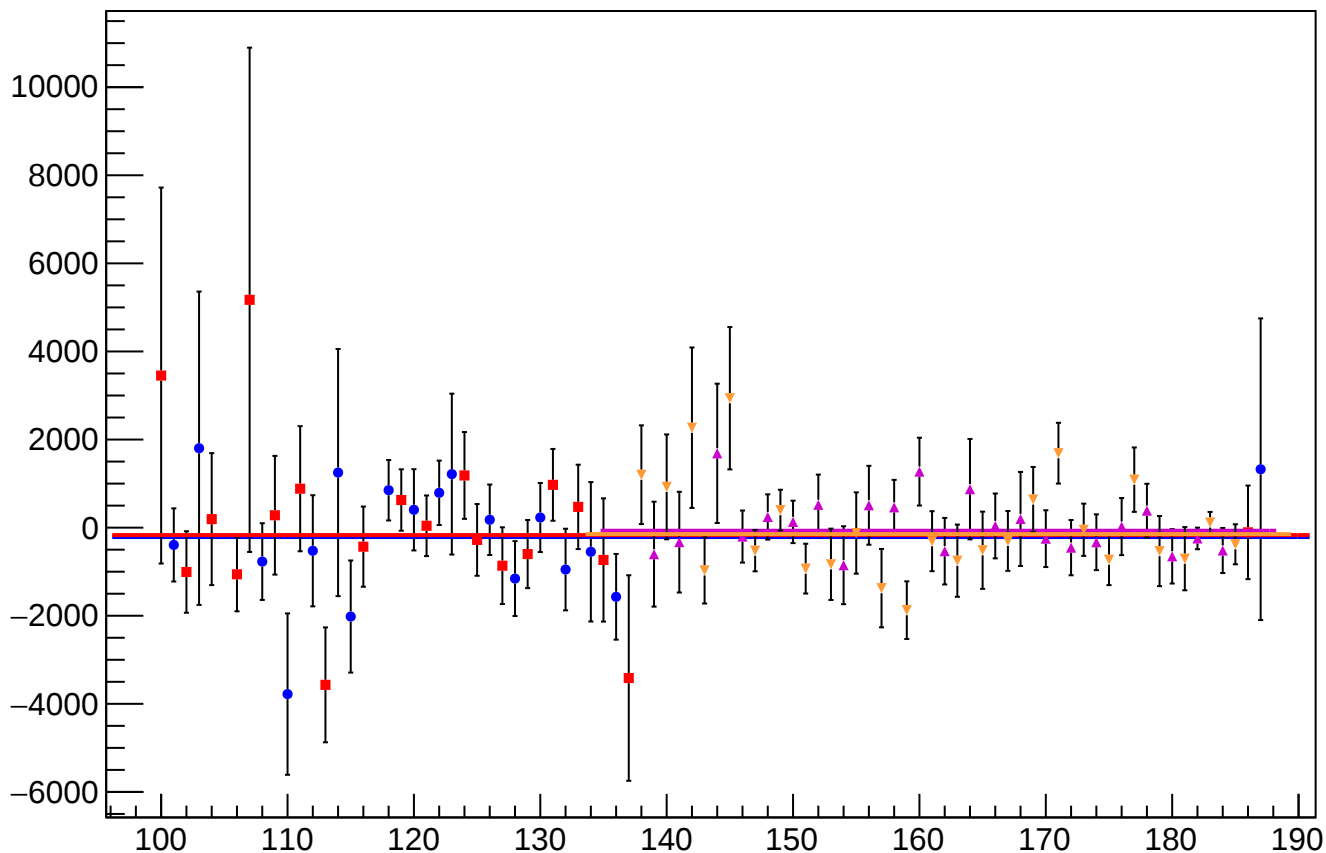
Right: 1986.141+/-0.381 χ^2/NDF : 957117.9/37

In: 1872.253+/-0.271 χ^2/NDF : 650497.4/40

Out: 1885.173+/-0.264 χ^2/NDF : 445248.3/44

All: 1878.890+/-0.189 χ^2/NDF : 1096910.2/85

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: -168.768 ± 224.566 $\chi^2/\text{NDF}: 19.9/19$

Left In: -70.340 ± 126.373 $\chi^2/\text{NDF}: 12.3/22$

Left: -110.024 ± 87.766 $\chi^2/\text{NDF}: 50.1/47$

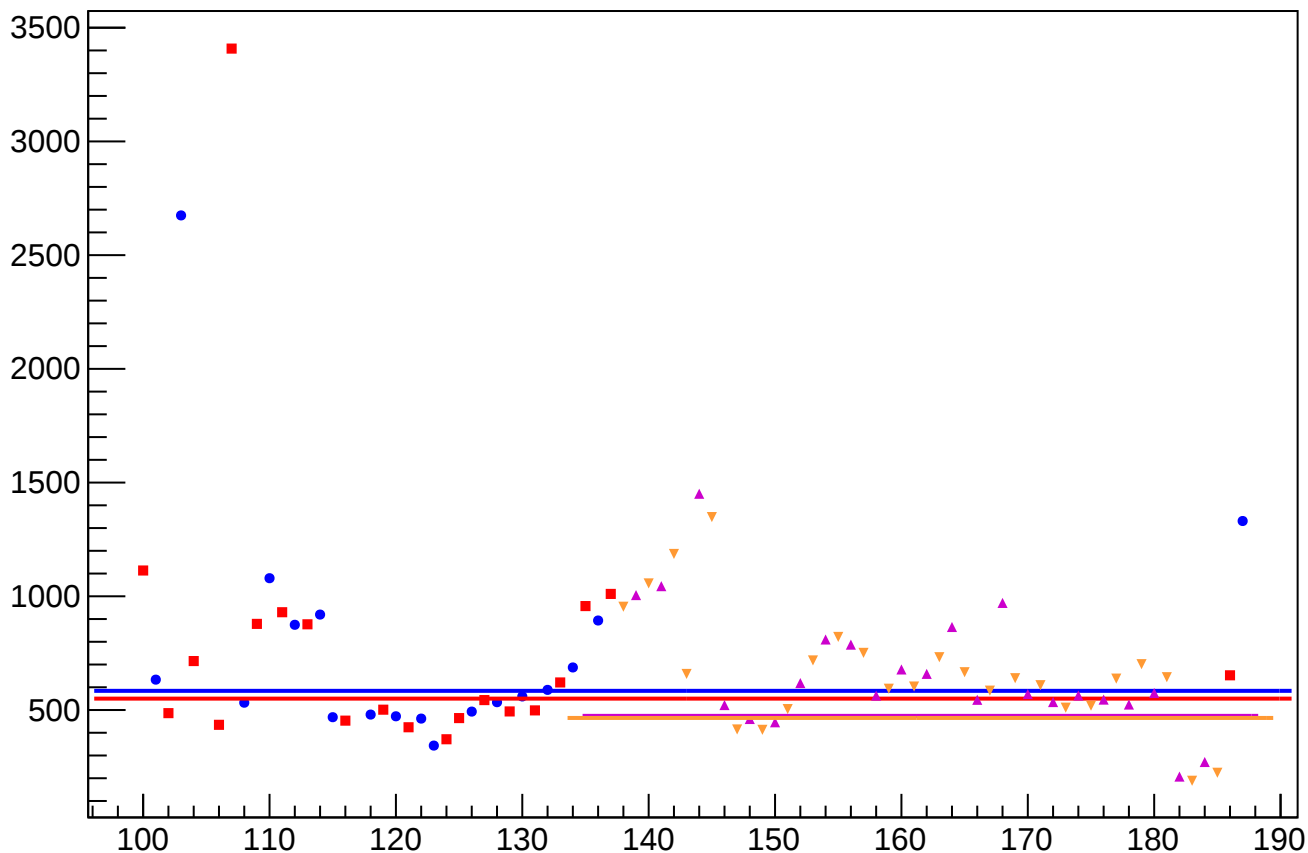
Right: -189.434 ± 164.172 $\chi^2/\text{NDF}: 36.8/37$

In: -101.219 ± 111.881 $\chi^2/\text{NDF}: 29.4/40$

Out: -151.959 ± 107.191 $\chi^2/\text{NDF}: 57.6/44$

All: -127.674 ± 77.400 $\chi^2/\text{NDF}: 87.1/85$

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: 550.081+/-0.159 χ^2/NDF : 1475066.1/19

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

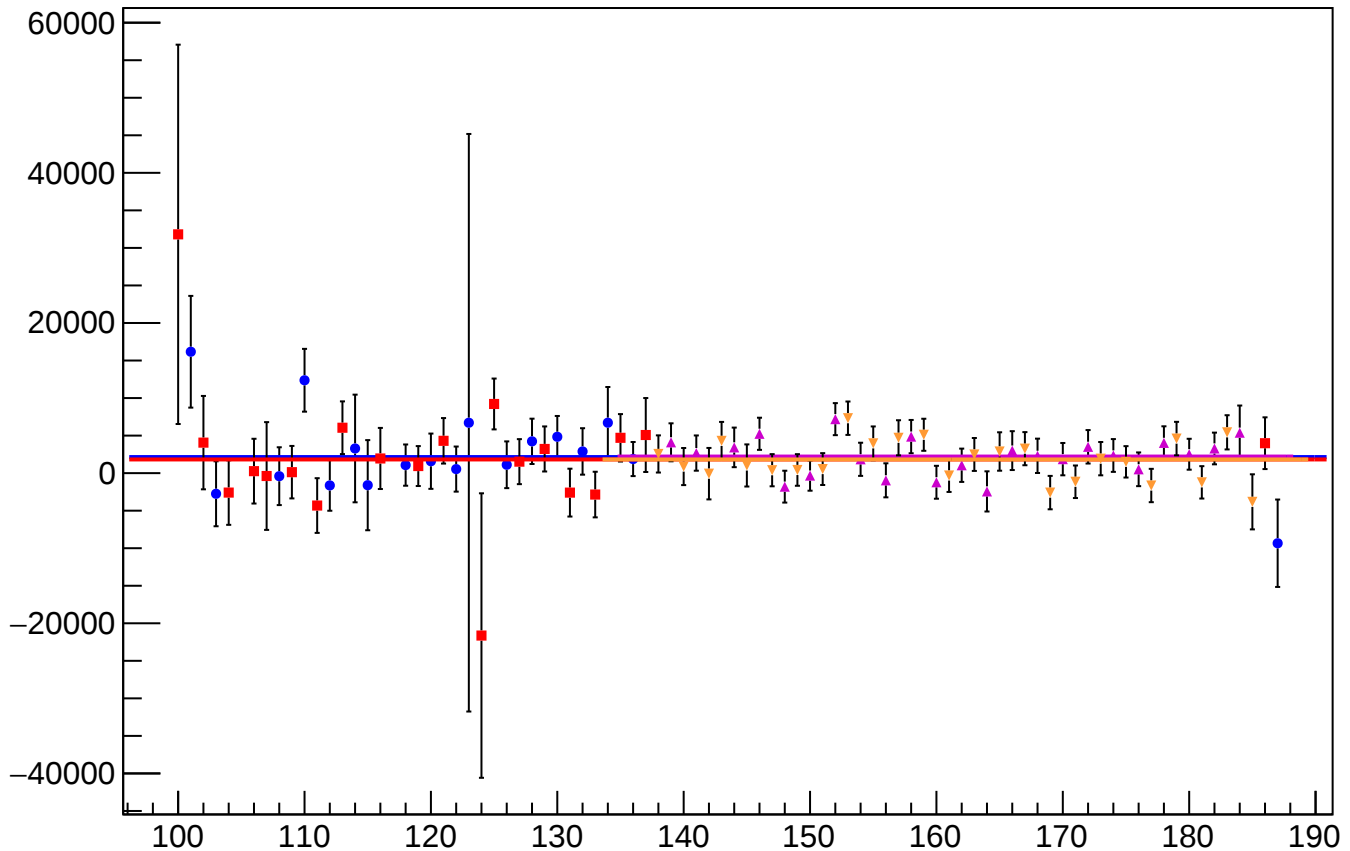
Right: 566.004+/-0.116 χ^2/NDF : 3006028.9/37

In: 498.050+/-0.079 χ^2/NDF : 8010217.1/40

Out: 484.447+/-0.076 χ^2/NDF : 8782461.7/44

All: 490.957+/-0.055 χ^2/NDF : 16808094.8/83

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2140.576+/-856.251 χ^2/NDF : 19.8/17

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 1822.758+/-830.852 χ^2/NDF : 20.6/19

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

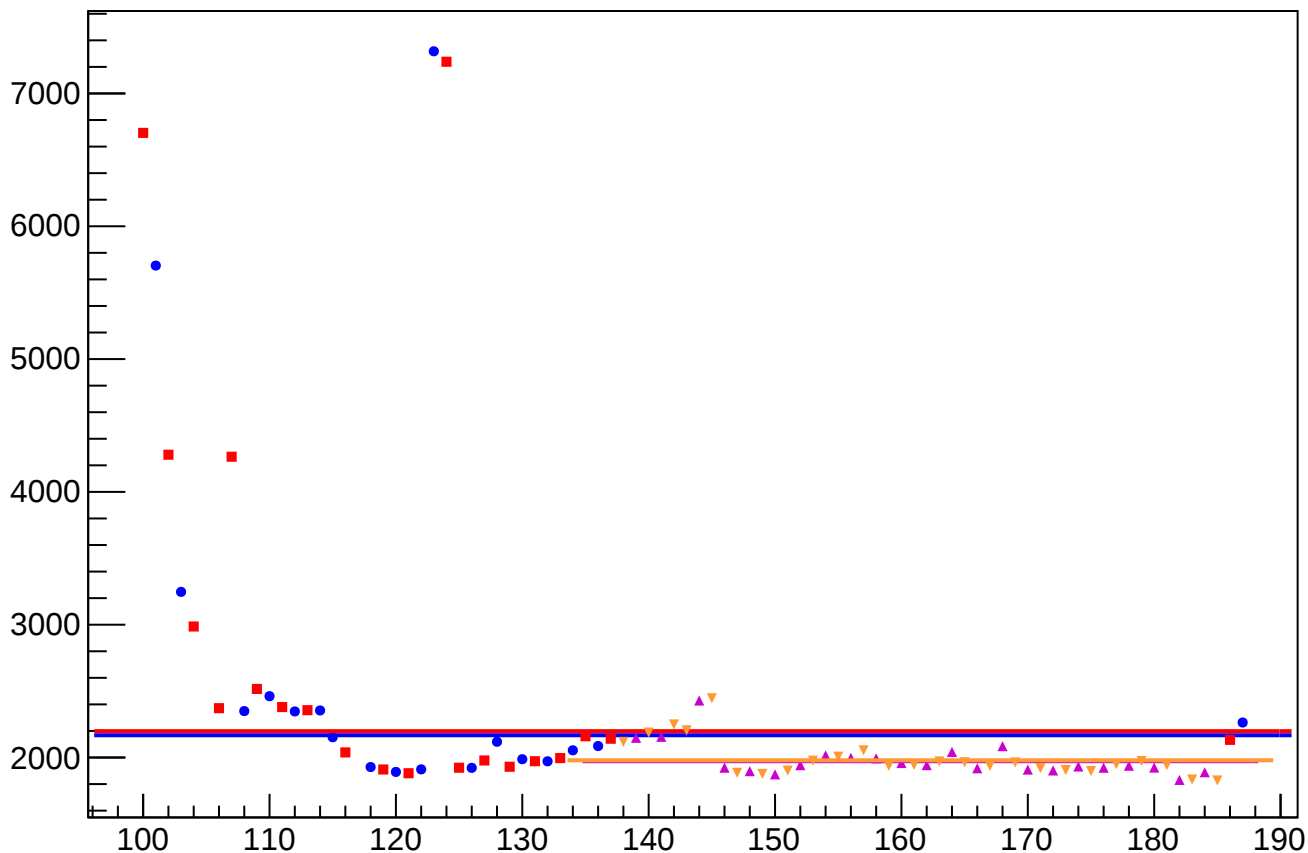
Right: 1976.884+/-596.278 χ^2/NDF : 40.5/37

In: 2192.269+/-414.732 χ^2/NDF : 45.2/40

Out: 1823.756+/-404.238 χ^2/NDF : 52.7/44

All: 2003.291+/-289.478 χ^2/NDF : 98.3/85

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2167.685 $\pm$ 0.605 χ^2/NDF : 708360.5/17

Left Out: 1978.997 $\pm$ 0.327 χ^2/NDF :139299.8/24

Right Out: 2198.623 $\pm$ 0.587 χ^2/NDF : 799842.8/19

Left In: 1972.166 $\pm$ 0.335 χ^2/NDF :116452.5/22

Left: 1975.665 $\pm$ 0.234 χ^2/NDF : 255965.0/47

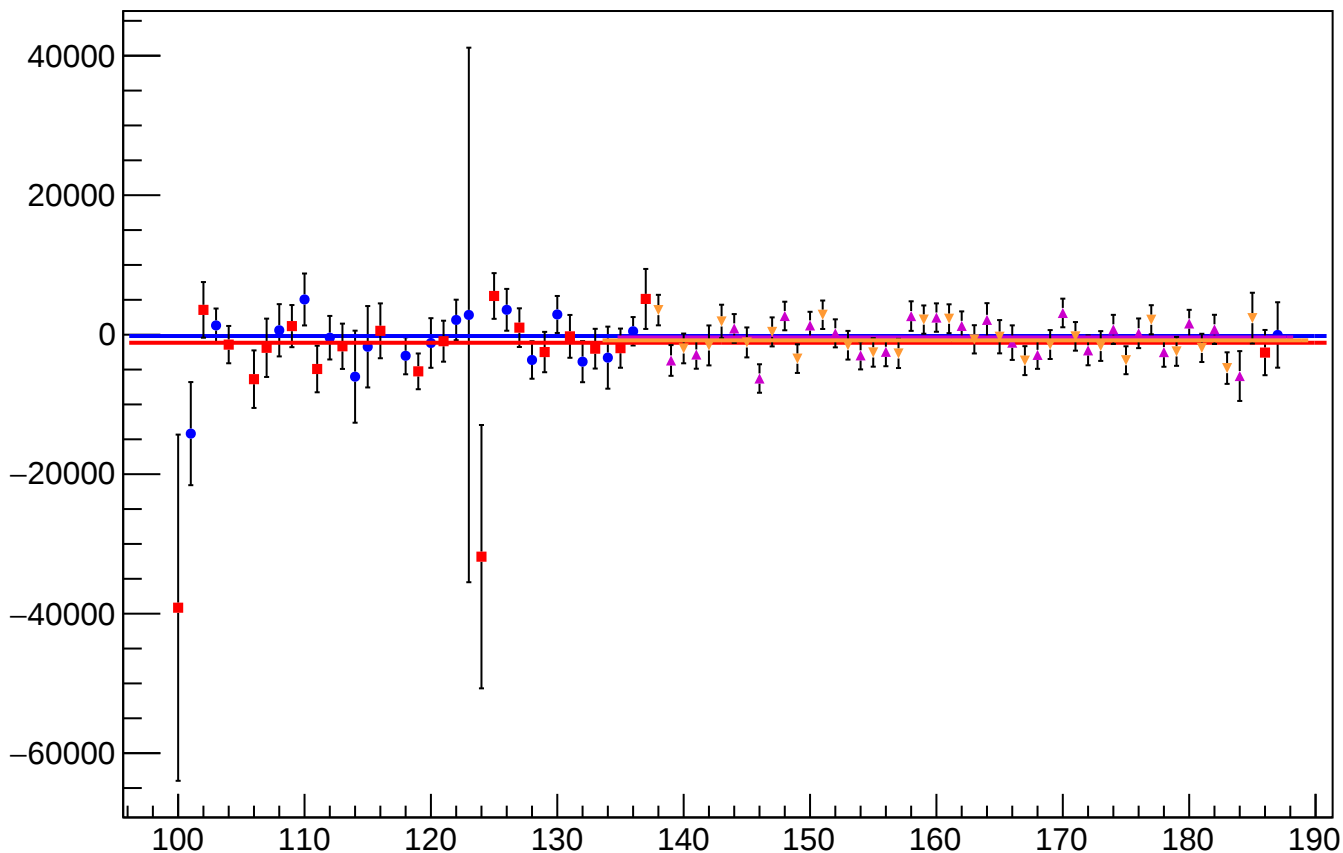
Right: 2183.620 $\pm$ 0.422 χ^2/NDF : 1509548.1/37

In: 2018.036 $\pm$ 0.293 χ^2/NDF :904629.7/40

Out: 2030.986 $\pm$ 0.286 χ^2/NDF :1045811.4/44

All: 2024.677 $\pm$ 0.205 χ^2/NDF : 1951441.2/85

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: -1157.197+/-745.892 χ^2/NDF : 20.3/19

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

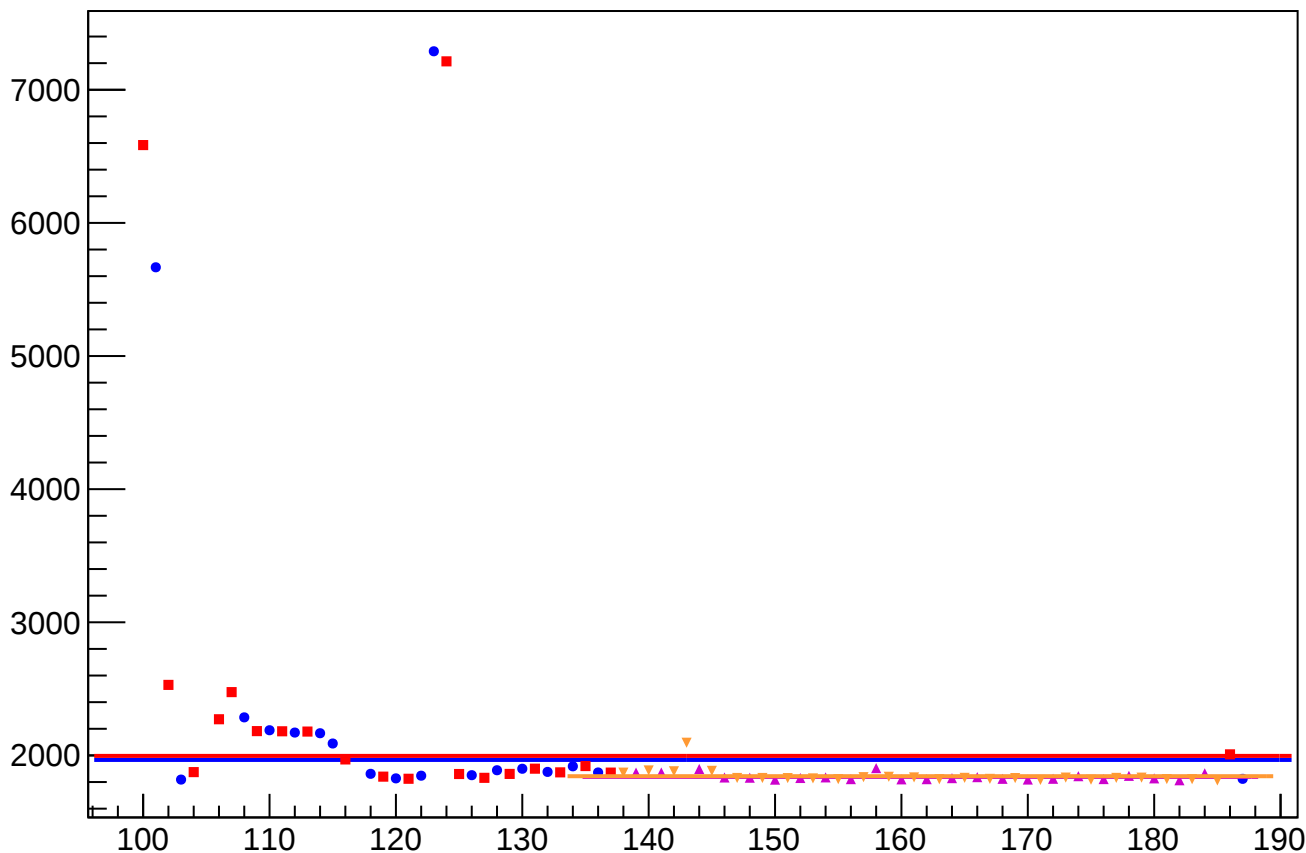
Right: -691.652+/-536.963 χ^2/NDF : 36.5/37

In: -347.753+/-383.285 χ^2/NDF : 49.9/40

Out: -895.524+/-372.727 χ^2/NDF : 48.4/44

All: -629.287+/-267.212 χ^2/NDF : 99.3/85

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1965.981+/-0.547 χ^2/NDF : 603886.2/17

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1996.400+/-0.527 χ^2/NDF : 354327.8/19

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

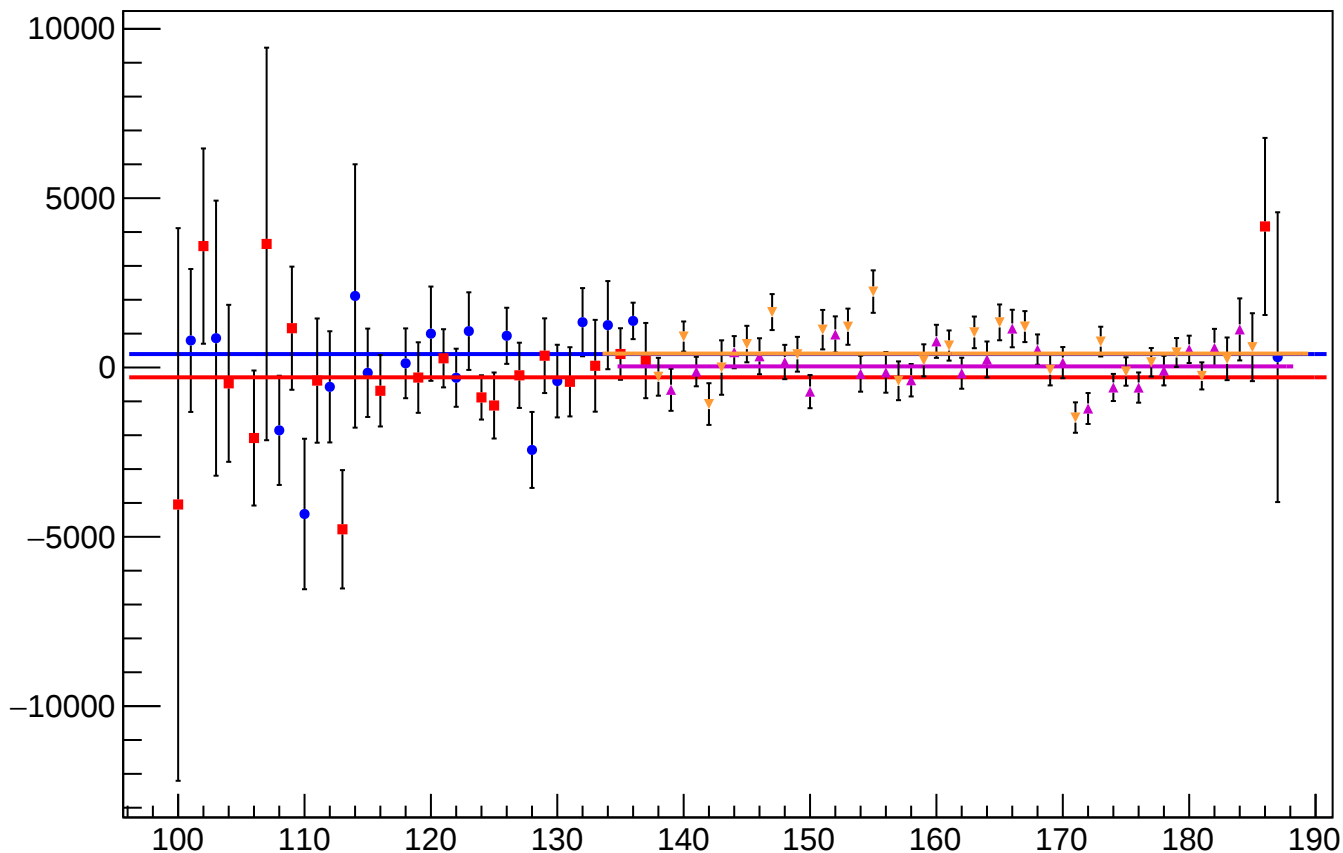
Right: 1981.746+/-0.380 χ^2/NDF : 959816.5/37

In: 1869.875+/-0.271 χ^2/NDF : 651127.2/40

Out: 1881.865+/-0.264 χ^2/NDF : 444047.5/44

All: 1876.038+/-0.189 χ^2/NDF : 1096180.5/85

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: -289.857 $\pm$ 265.511 χ^2 /NDF: 17.0/19

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

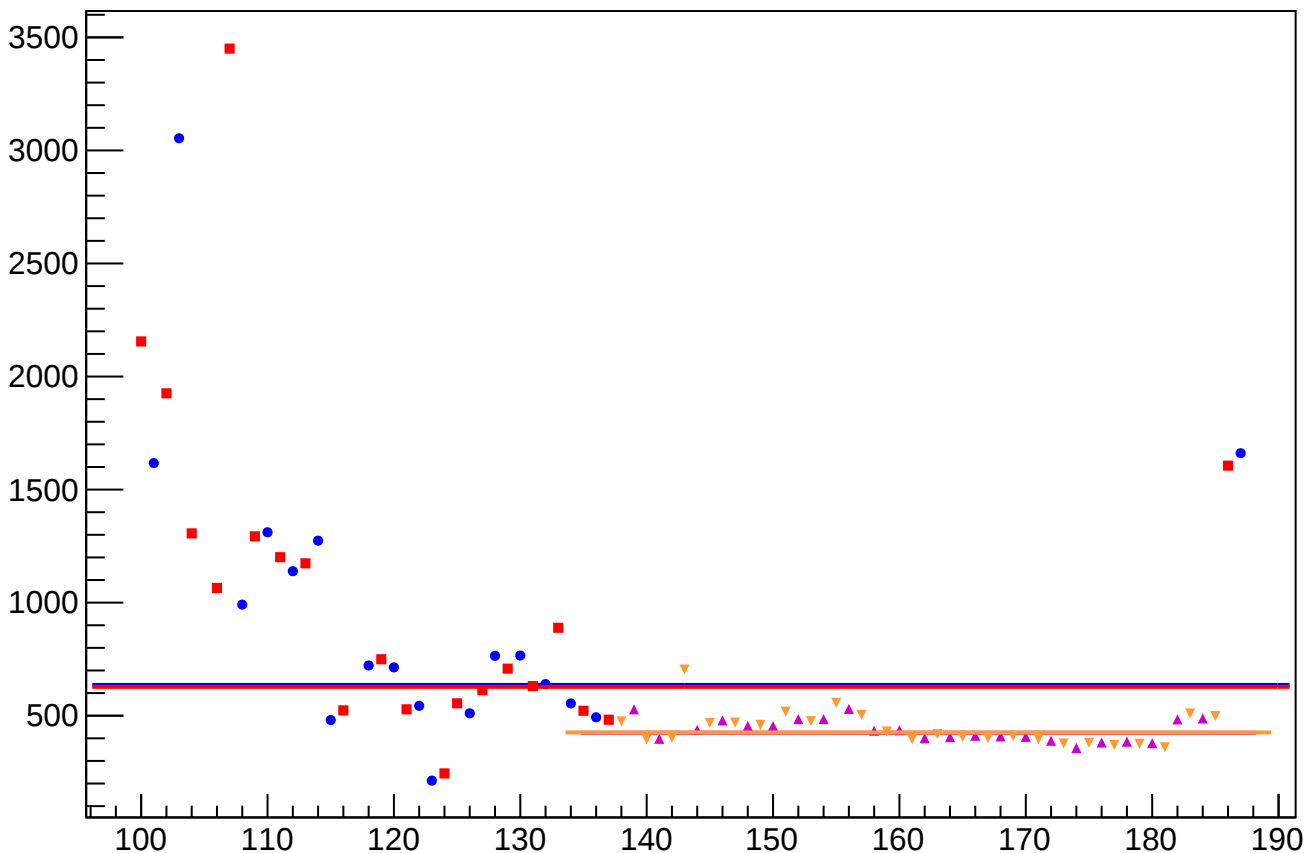
Right: 47.001 $\pm$ 189.444 χ^2 /NDF: 40.7/37

In: 78.103 $\pm$ 95.765 χ^2 /NDF:54.8/40

Out: 323.299 $\pm$ 93.956 χ^2 /NDF:84.3/44

All: 203.039 $\pm$ 67.067 χ^2 /NDF: 142.4/85

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: 627.713 $\pm$ 0.188 χ^2 /NDF: 3085318.9/19

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

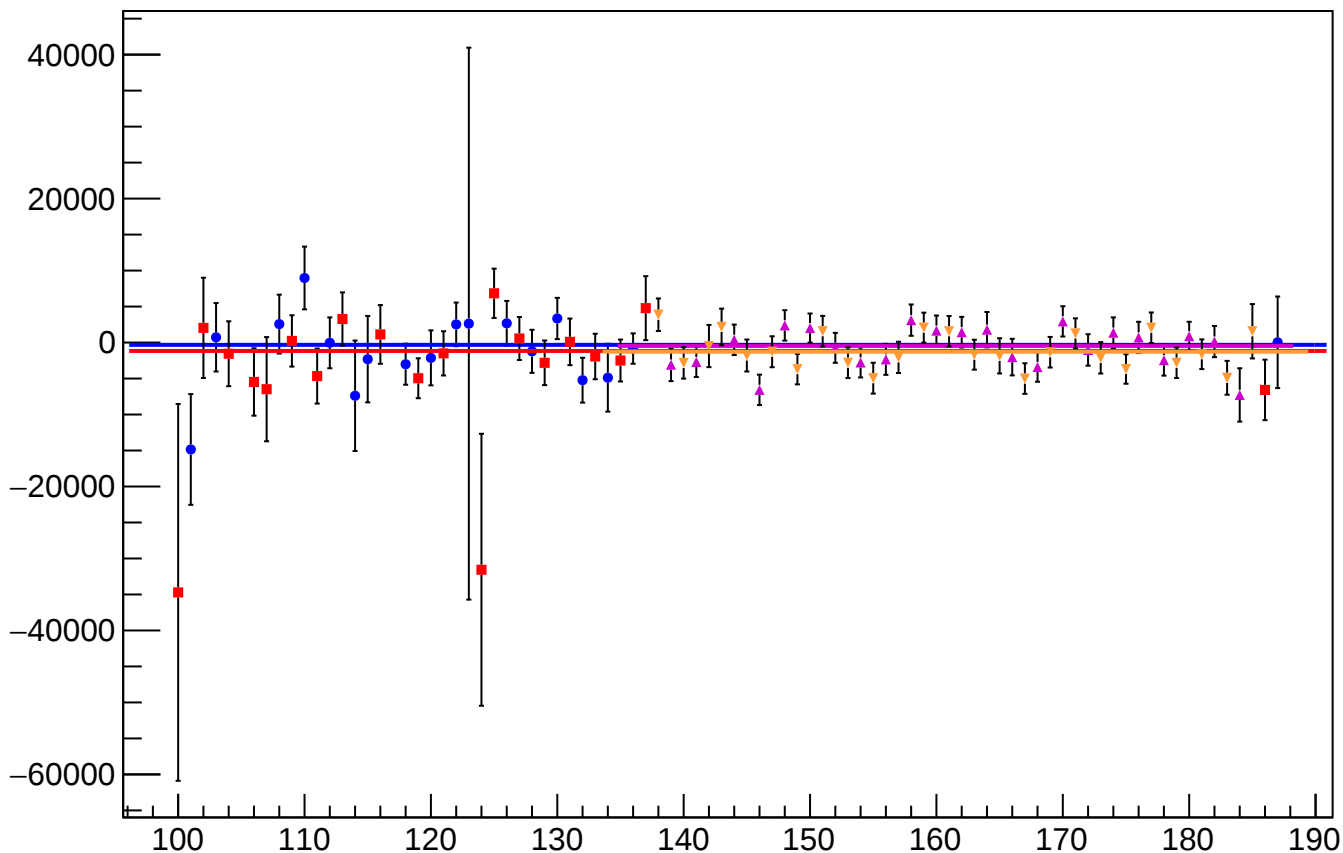
Right: 631.880 $\pm$ 0.134 χ^2 /NDF: 5459893.7/37

In: 451.178 $\pm$ 0.068 χ^2 /NDF: 3836042.1/40

Out: 451.283 $\pm$ 0.066 χ^2 /NDF: 4827899.6/44

All: 451.232 $\pm$ 0.047 χ^2 /NDF: 8663942.9/85

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: -1164.725 ± 852.170 χ^2/NDF : 20.4/19

Left In: -462.599 ± 453.947 χ^2/NDF : 32.6/22

Left: -874.870 ± 317.128 χ^2/NDF : 65.0/47

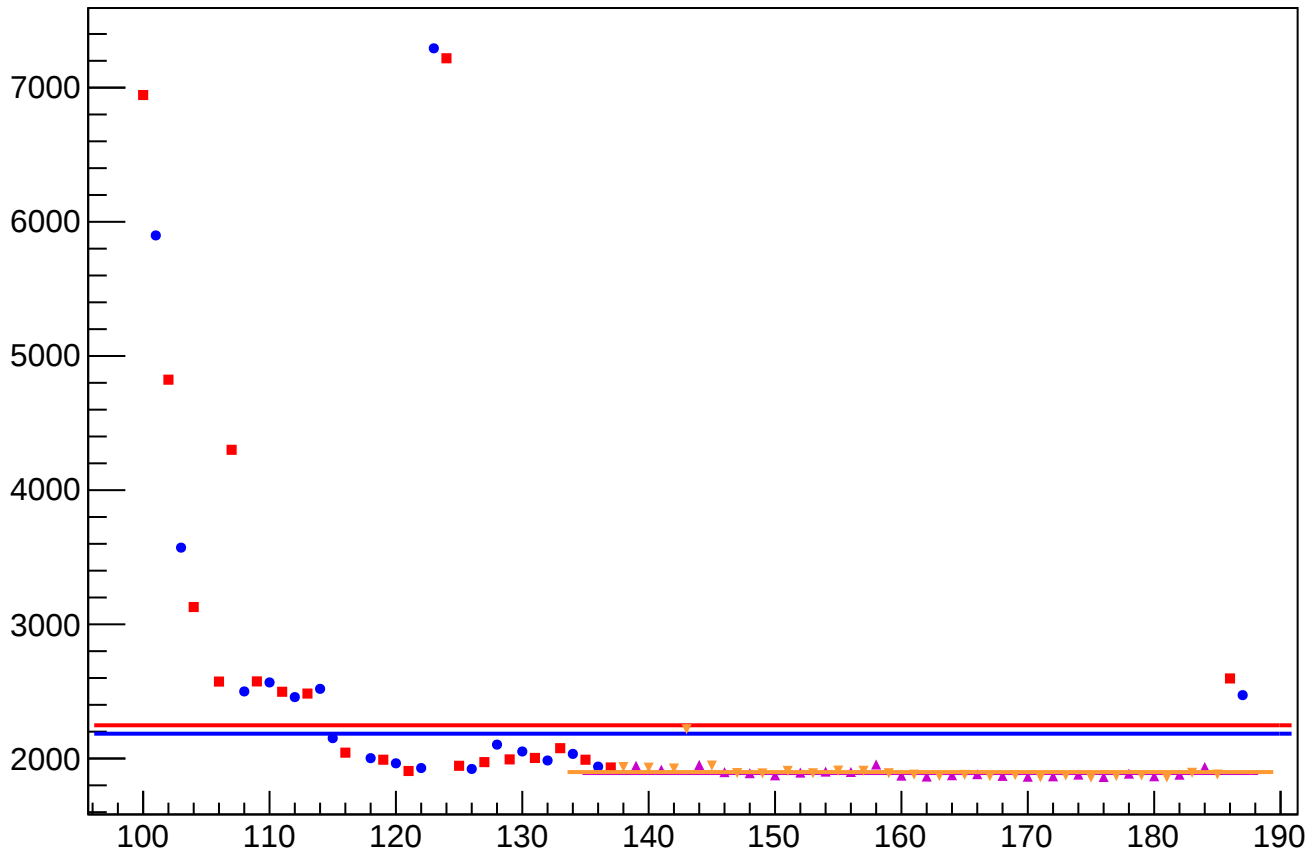
Right: -748.323 ± 607.477 χ^2/NDF : 38.6/37

In: -431.463 ± 402.078 χ^2/NDF : 50.3/40

Out: -1245.921 ± 393.214 χ^2/NDF : 51.2/44

All: -847.769 ± 281.126 χ^2/NDF : 103.7/85

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: 2247.572+/-0.603 χ^2/NDF : 906428.4/19

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

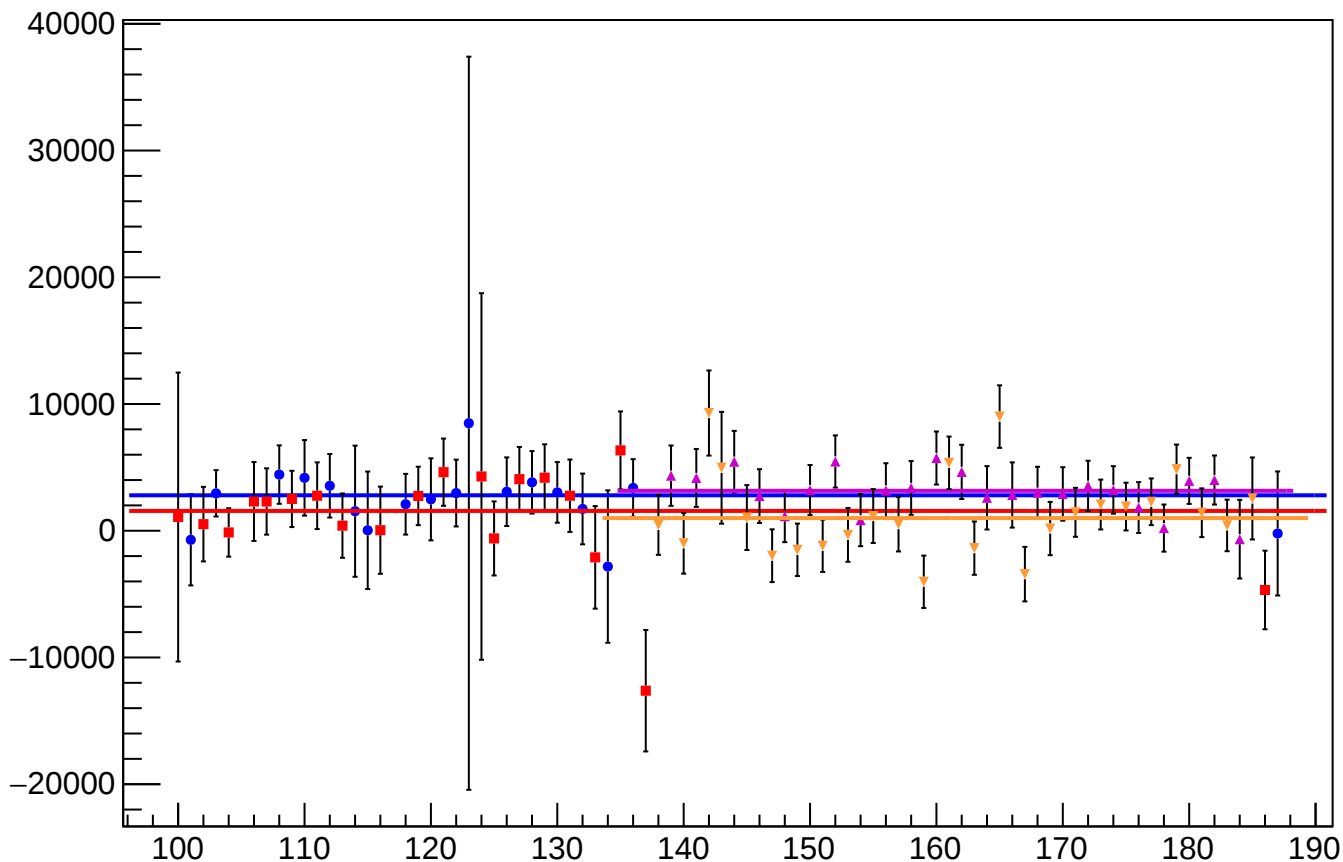
Right: 2216.774+/-0.430 χ^2/NDF : 1716730.7/37

In: 1954.881+/-0.284 χ^2/NDF : 992261.0/40

Out: 1973.186+/-0.278 χ^2/NDF : 1208548.4/44

All: 1964.237+/-0.199 χ^2/NDF : 2202928.3/85

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2797.196 $\pm$ 674.058 χ^2 /NDF: 4.0/17

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1562.766 $\pm$ 642.717 χ^2 /NDF: 22.2/19

Left In: 3150.437 $\pm$ 441.145 χ^2 /NDF:11.8/22

Left: 2061.387 $\pm$ 309.830 χ^2 /NDF: 68.5/47

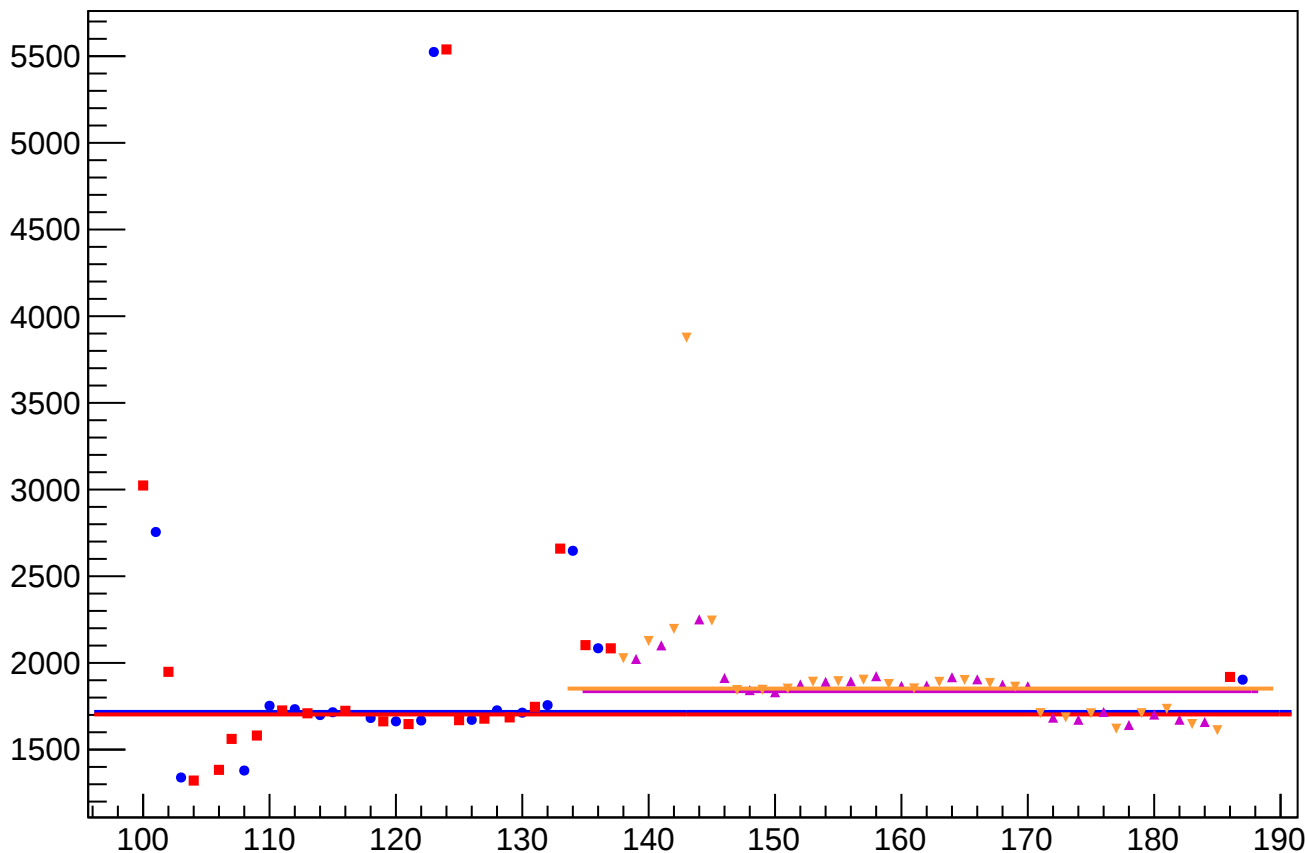
Right: 2150.617 $\pm$ 465.155 χ^2 /NDF: 28.0/37

In: 3044.508 $\pm$ 369.121 χ^2 /NDF:16.0/40

Out: 1177.805 $\pm$ 360.386 χ^2 /NDF:67.4/44

All: 2088.809 $\pm$ 257.864 χ^2 /NDF: 96.5/85

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: 1702.805 $\pm$ 0.454 χ^2 /NDF: 464822.6/19

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

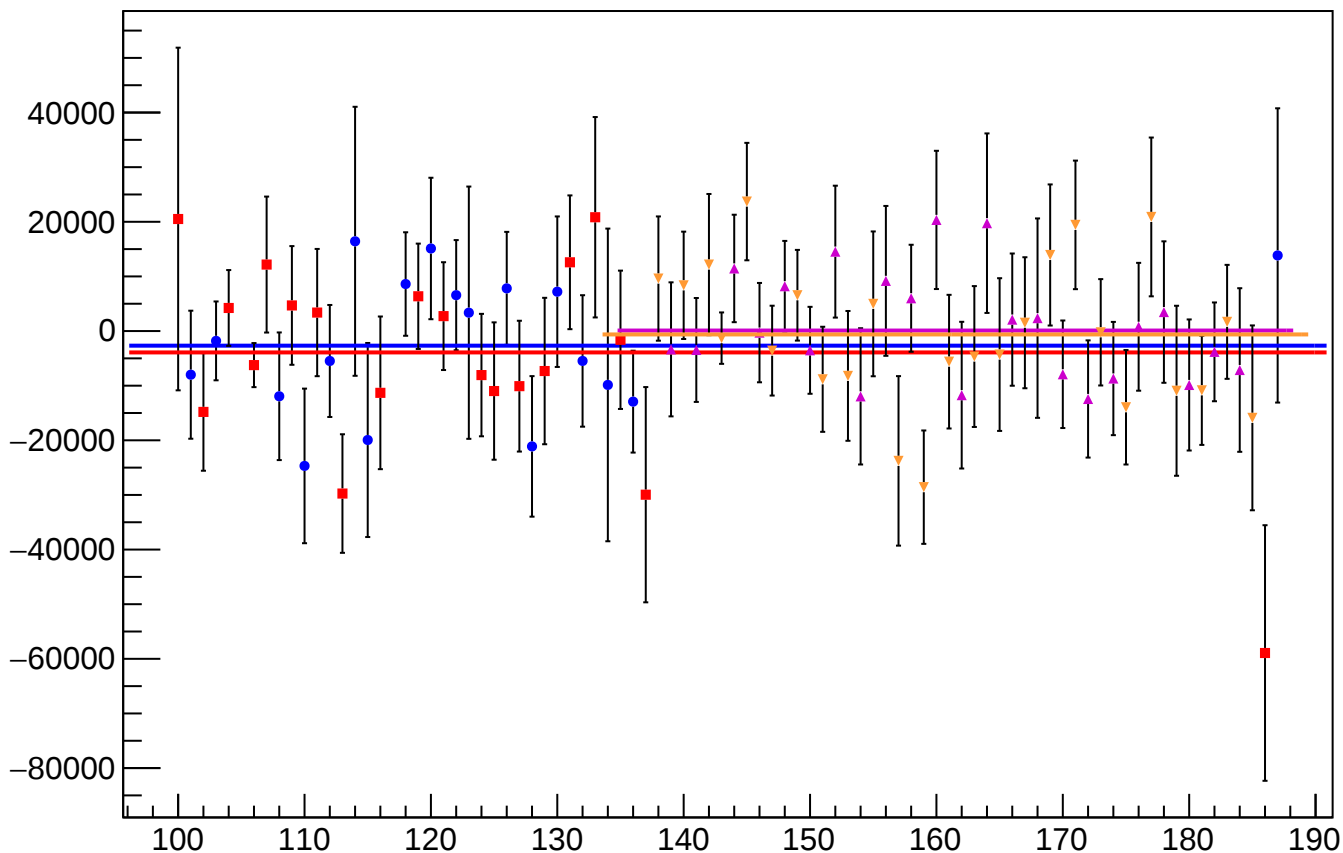
Right: 1709.635 $\pm$ 0.329 χ^2 /NDF: 900543.7/37

In: 1801.164 $\pm$ 0.261 χ^2 /NDF:680142.7/40

Out: 1805.063 $\pm$ 0.255 χ^2 /NDF:1187622.5/44

All: 1803.160 $\pm$ 0.182 χ^2 /NDF: 1867879.5/85

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: -3913.037 $\pm$ 2259.172 χ^2 /NDF: 25.3/19

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

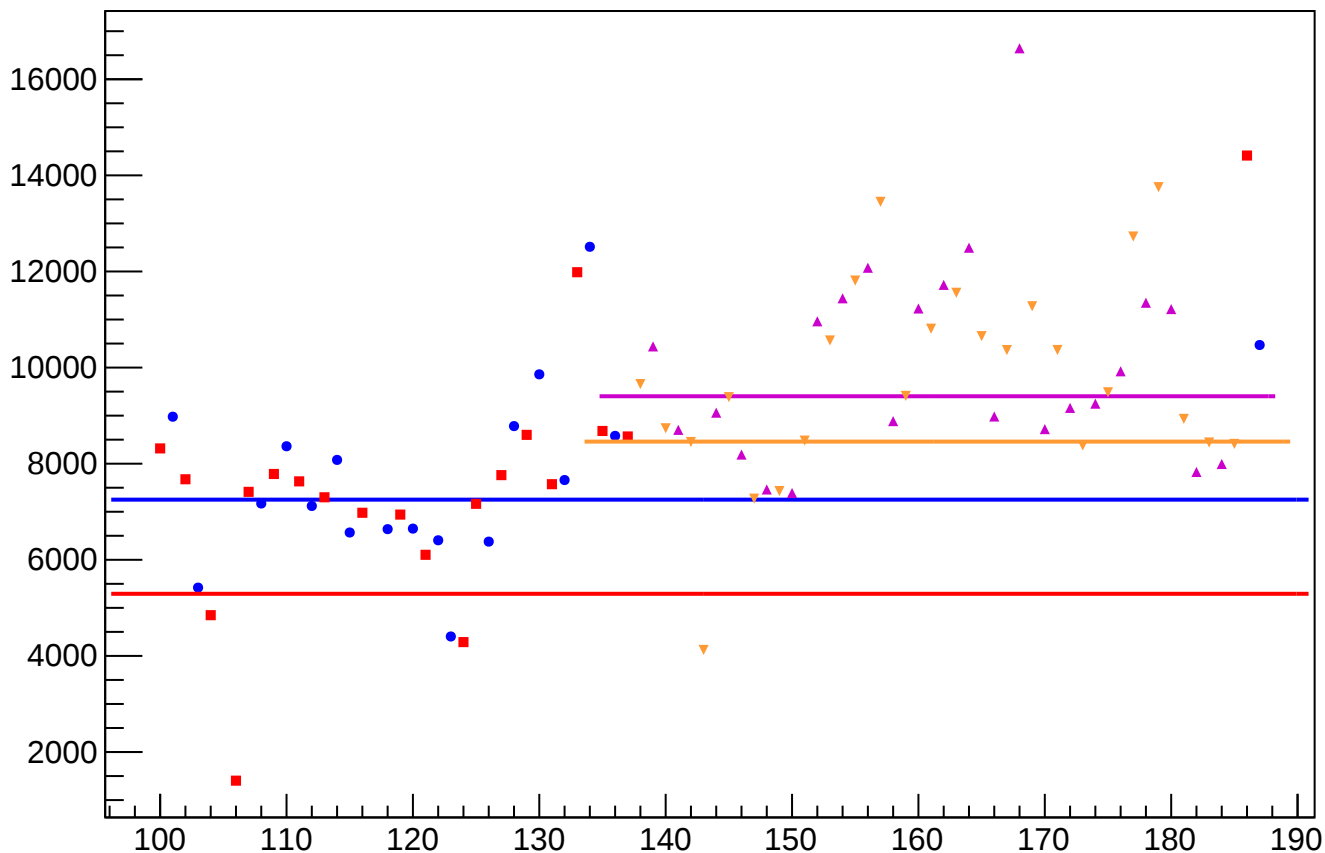
Right: -3434.094 $\pm$ 1768.937 χ^2 /NDF: 39.8/37

In: -997.880 $\pm$ 1785.425 χ^2 /NDF:29.6/40

Out: -2122.307 $\pm$ 1526.089 χ^2 /NDF:56.6/44

All: -1647.615 $\pm$ 1160.064 χ^2 /NDF: 86.4/85

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: 5292.841 $\pm$ 1.597 χ^2 /NDF: 3502999.8/19

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

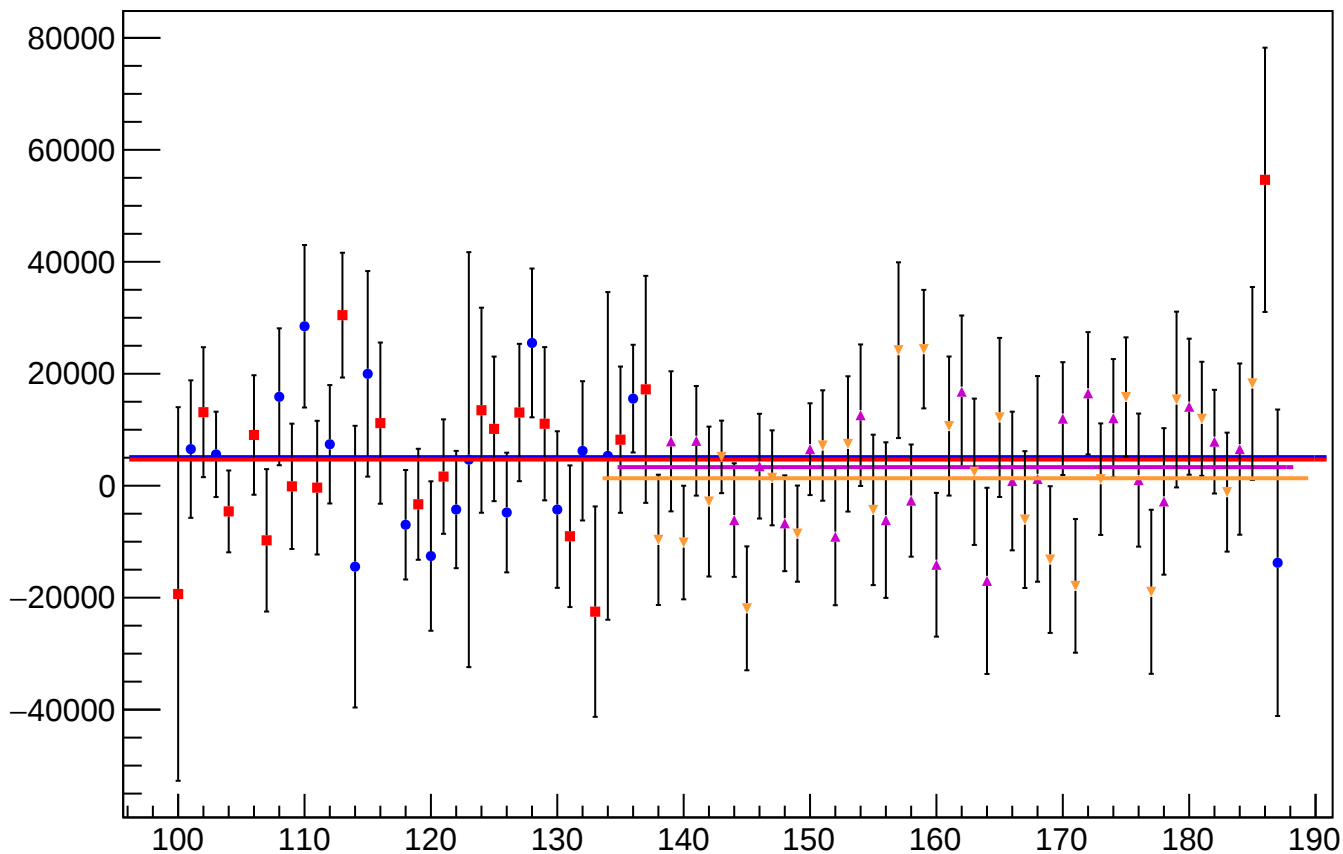
Right: 6050.795 $\pm$ 1.251 χ^2 /NDF: 4585405.0/37

In: 8555.406 $\pm$ 1.262 χ^2 /NDF: 2336808.7/40

Out: 7014.769 $\pm$ 1.079 χ^2 /NDF: 8727230.7/44

All: 7665.170 $\pm$ 0.820 χ^2 /NDF: 11924541.5/80

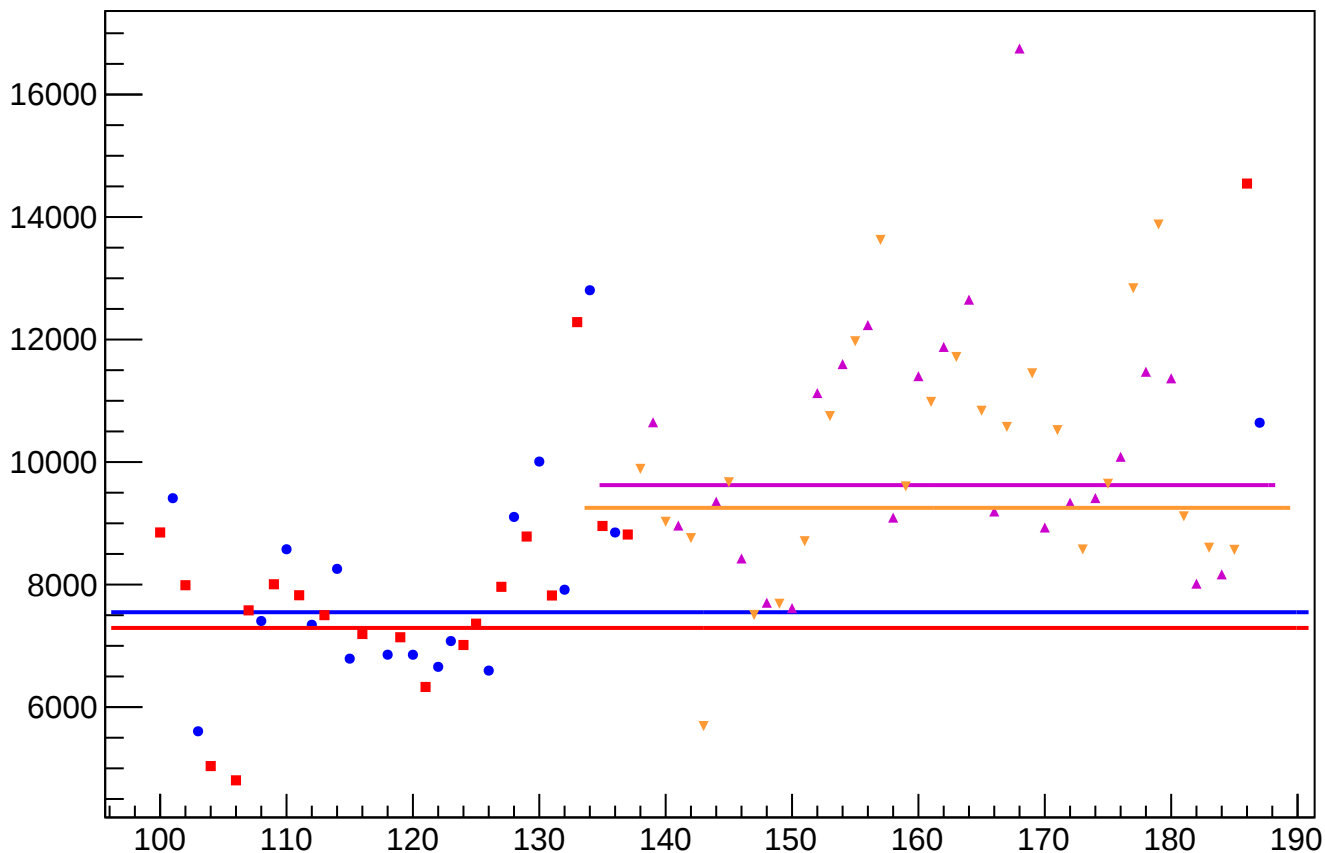
asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 5106.367 $\pm$ 2962.109 χ^2 /NDF: 14.1/17
 Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF:28.0/24
 Right Out: 4672.389 $\pm$ 2776.555 χ^2 /NDF: 20.1/19
 Left In: 3316.909 $\pm$ 2344.543 χ^2 /NDF:13.7/22

Left: 2267.978 $\pm$ 1609.604 χ^2 /NDF: 42.2/47
 Right: 4875.361 $\pm$ 2025.744 χ^2 /NDF: 34.2/37
 In: 4006.171 $\pm$ 1838.368 χ^2 /NDF:28.1/40
 Out: 2630.692 $\pm$ 1730.917 χ^2 /NDF:49.0/44
 All: 3277.061 $\pm$ 1260.218 χ^2 /NDF: 77.3/85

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: 7292.345 $\pm$ 1.963 χ^2/NDF : 750688.5/19

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

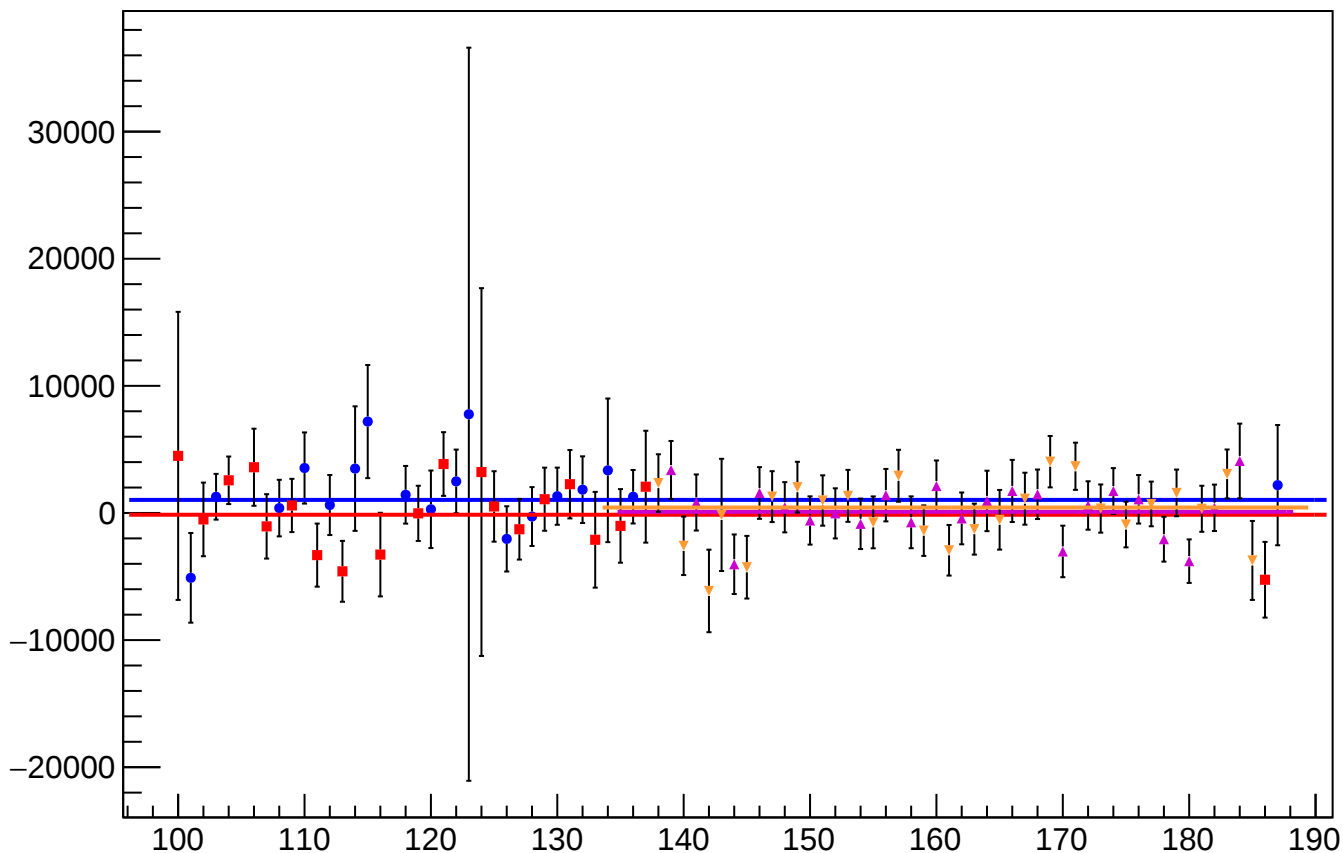
Right: 7412.182 $\pm$ 1.432 χ^2/NDF : 1214591.2/37

In: 8824.257 $\pm$ 1.300 χ^2/NDF : 2129221.8/40

Out: 8490.730 $\pm$ 1.224 χ^2/NDF : 2957980.5/44

All: 8647.455 $\pm$ 0.891 χ^2/NDF : 5122099.4/85

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: -139.457 $\pm$ 611.857 χ^2 /NDF: 17.5/19

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

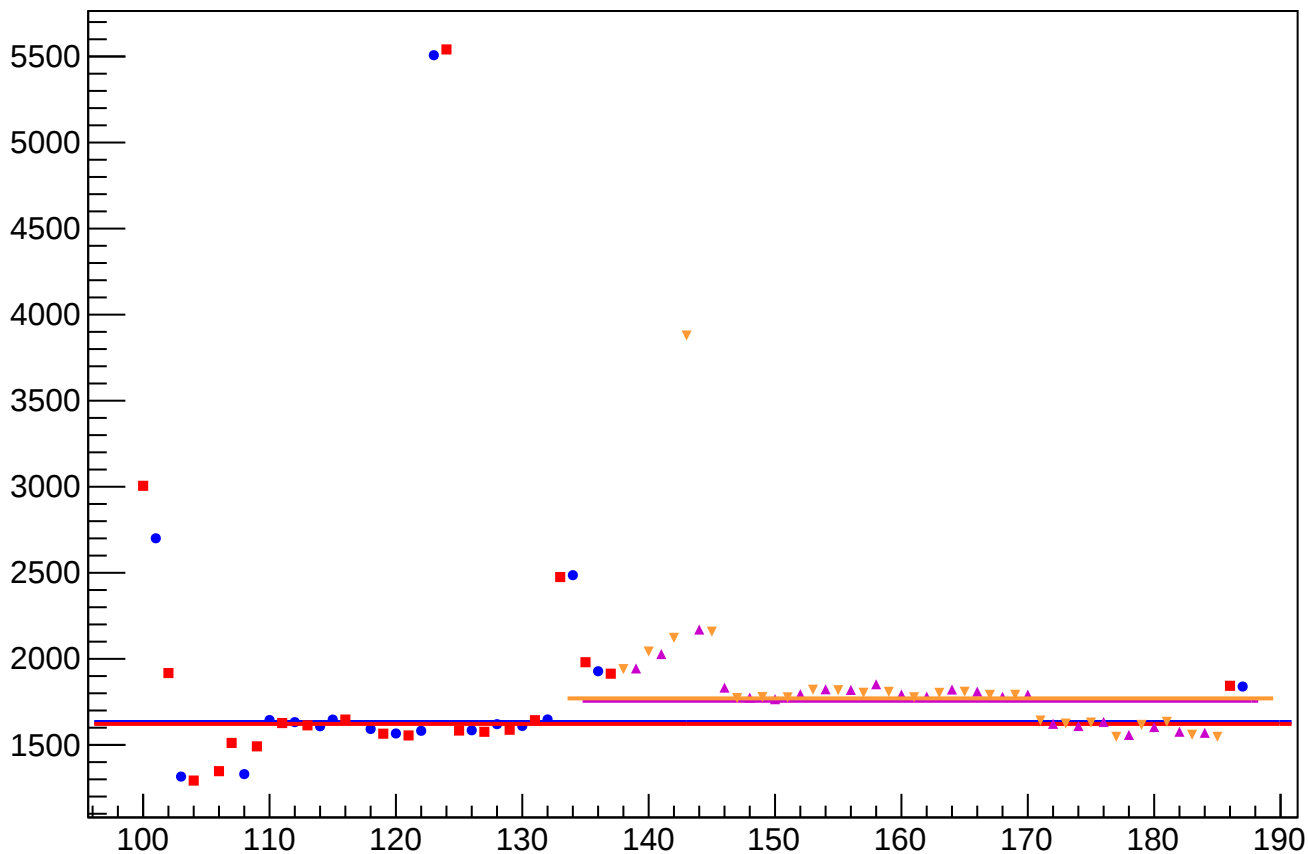
Right: 418.049 $\pm$ 442.456 χ^2 /NDF: 28.0/37

In: 373.046 $\pm$ 352.379 χ^2 /NDF:31.2/40

Out: 249.377 $\pm$ 344.231 χ^2 /NDF:46.8/44

All: 309.765 $\pm$ 246.239 χ^2 /NDF: 78.1/85

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: 1622.104+/-0.433 χ^2/NDF : 445067.2/19

Left In: 1756.623+/-0.298 χ^2/NDF : 223077.6/22

Left: 1763.595+/-0.210 χ^2/NDF : 923692.1/47

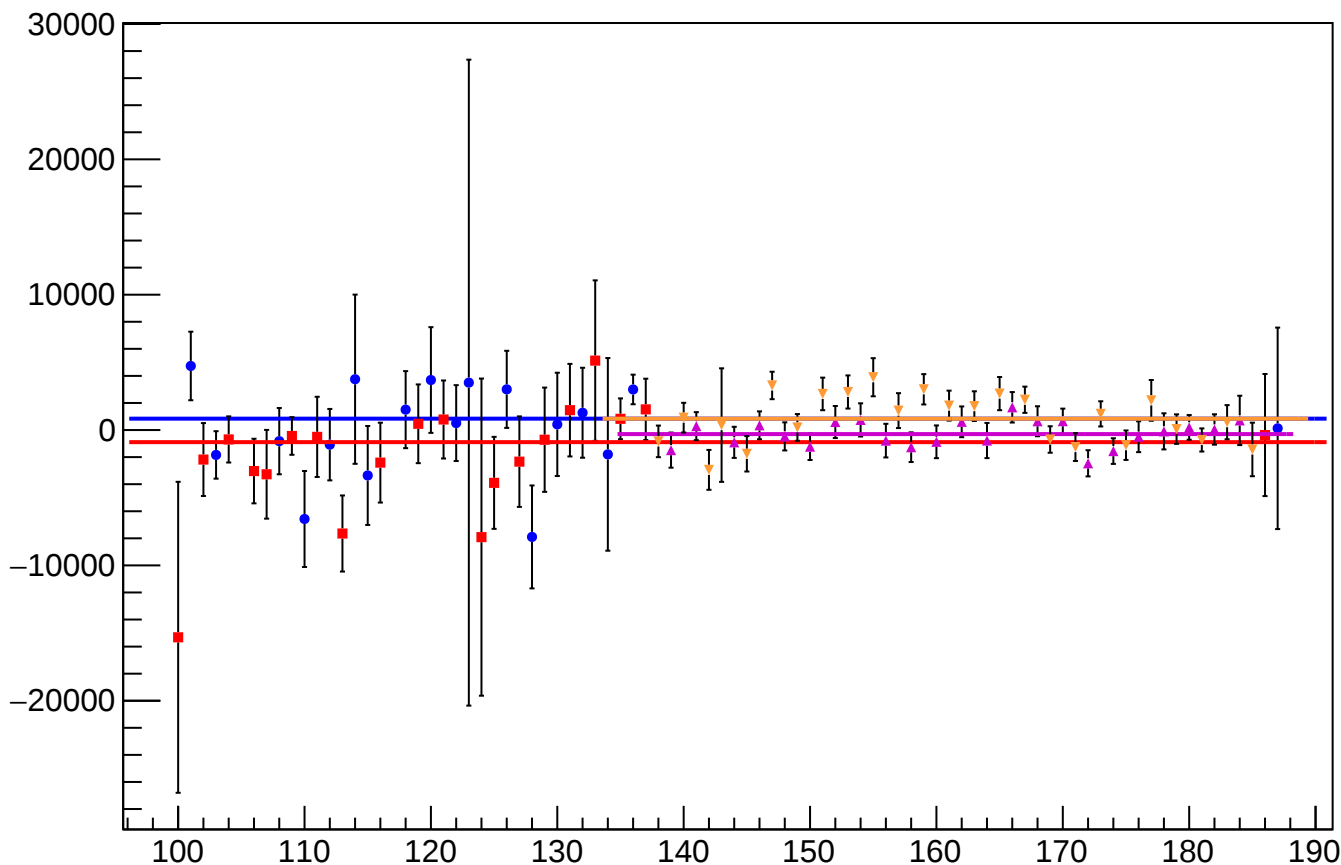
Right: 1627.326+/-0.313 χ^2/NDF : 855988.8/37

In: 1719.230+/-0.249 χ^2/NDF : 685598.6/40

Out: 1723.450+/-0.243 χ^2/NDF : 1224887.0/44

All: 1721.390+/-0.174 χ^2/NDF : 1910632.4/85

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 841.259 $\pm$ 630.505 χ^2/NDF : 22.1/17

Left Out: 839.344 $\pm$ 230.465 χ^2/NDF :54.4/24

Right Out: -894.045 $\pm$ 585.477 χ^2/NDF : 15.2/19

Left In: -298.801 $\pm$ 231.400 χ^2/NDF :18.3/22

Left: 272.574 $\pm$ 163.293 χ^2/NDF : 84.9/47

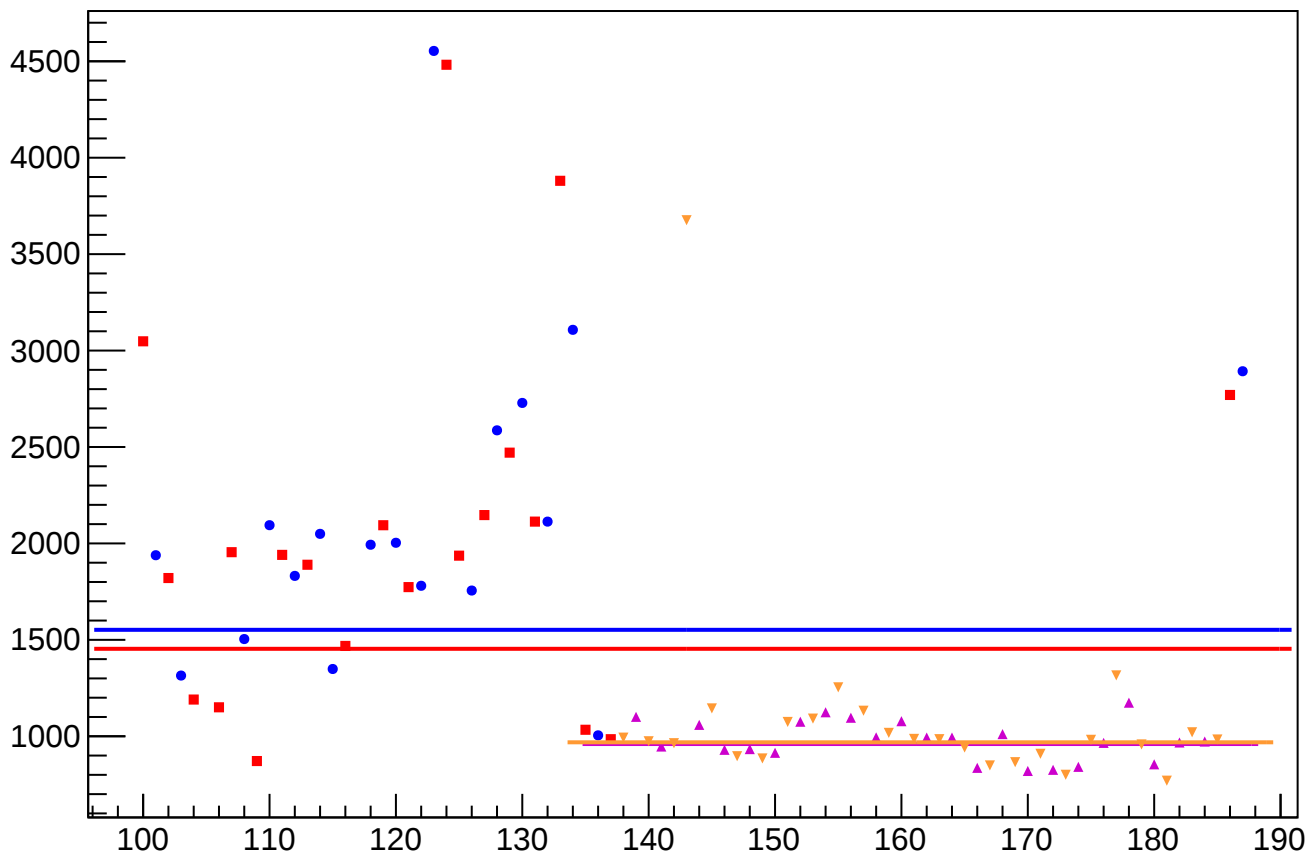
Right: -90.563 $\pm$ 429.031 χ^2/NDF : 41.4/37

In: -163.470 $\pm$ 217.232 χ^2/NDF :43.3/40

Out: 606.790 $\pm$ 214.449 χ^2/NDF :77.1/44

All: 226.625 $\pm$ 152.613 χ^2/NDF : 126.9/85

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1551.983+/-0.446 χ^2/NDF : 1358599.6/17

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1453.529+/-0.414 χ^2/NDF : 1996313.0/19

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

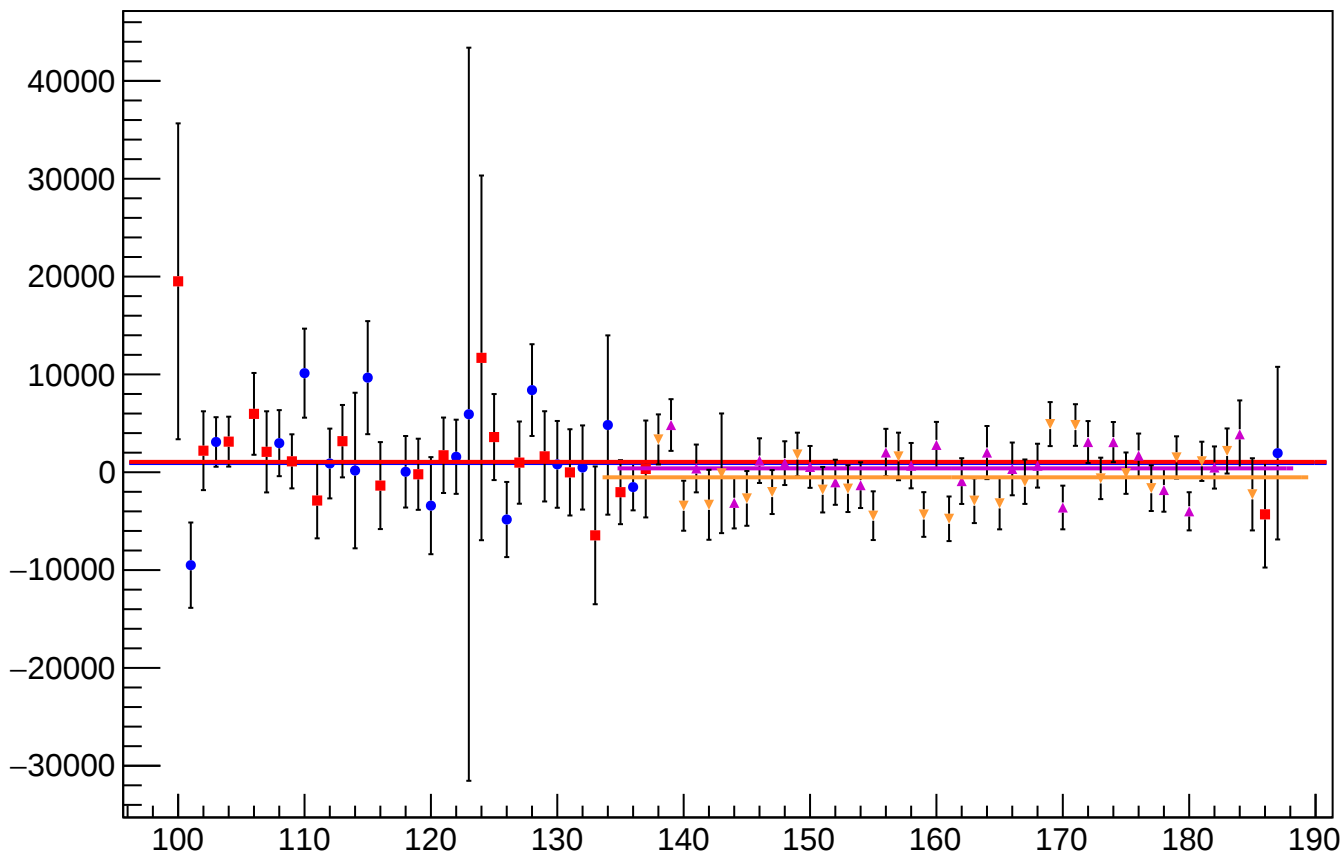
Right: 1499.115+/-0.303 χ^2/NDF : 3381098.9/37

In: 1030.099+/-0.154 χ^2/NDF : 3284626.5/40

Out: 1033.756+/-0.152 χ^2/NDF : 4577427.3/44

All: 1031.951+/-0.108 χ^2/NDF : 7862340.8/85

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: 1060.333 ± 914.051 χ^2/NDF : 9.1/19

Left In: 397.398 ± 485.048 χ^2/NDF : 21.8/22

Left: -63.533 ± 341.714 χ^2/NDF : 57.7/47

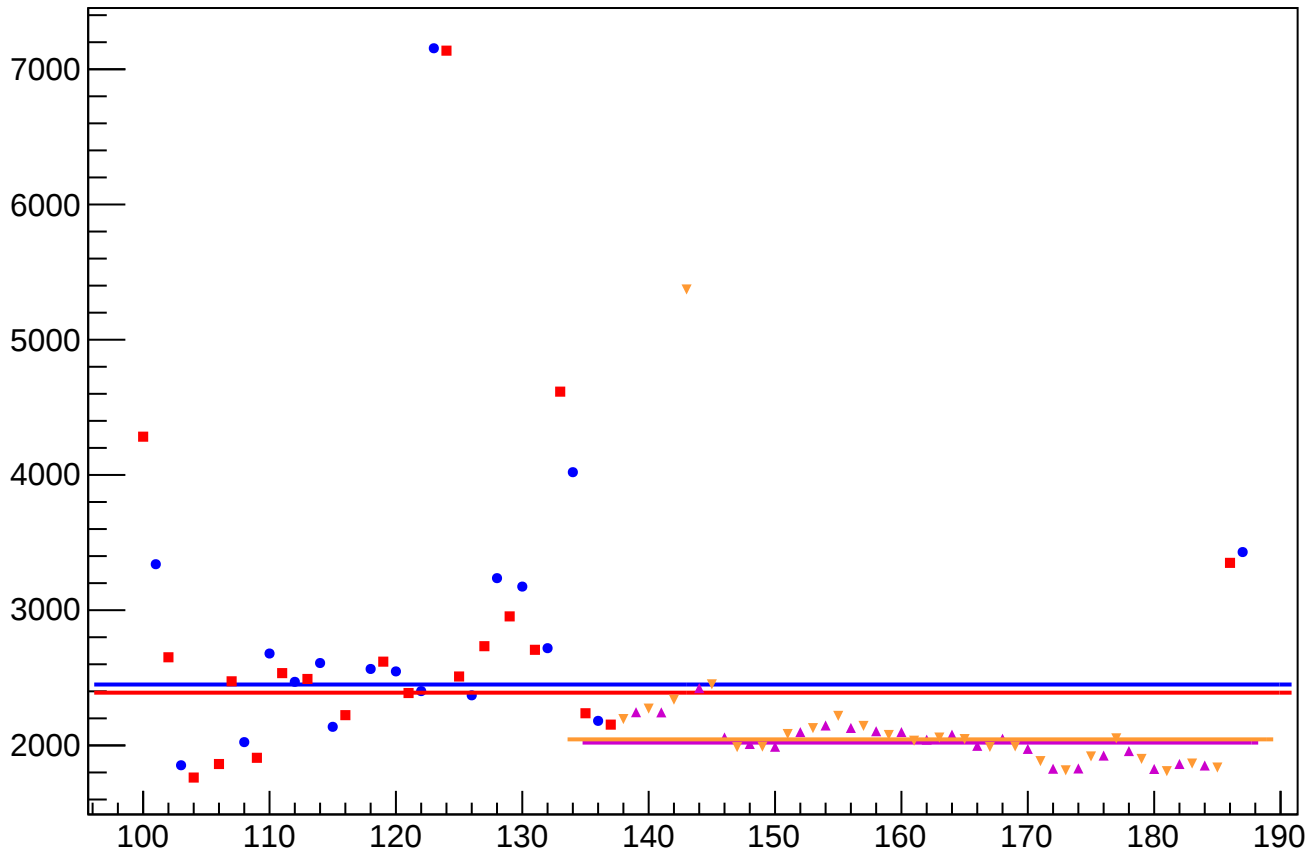
Right: 1003.715 ± 663.526 χ^2/NDF : 29.2/37

In: 507.014 ± 433.357 χ^2/NDF : 42.2/40

Out: -174.955 ± 425.998 χ^2/NDF : 45.4/44

All: 160.189 ± 303.794 χ^2/NDF : 88.9/85

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: 2390.003 $\pm$ 0.646 χ^2/NDF : 721543.4/19

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

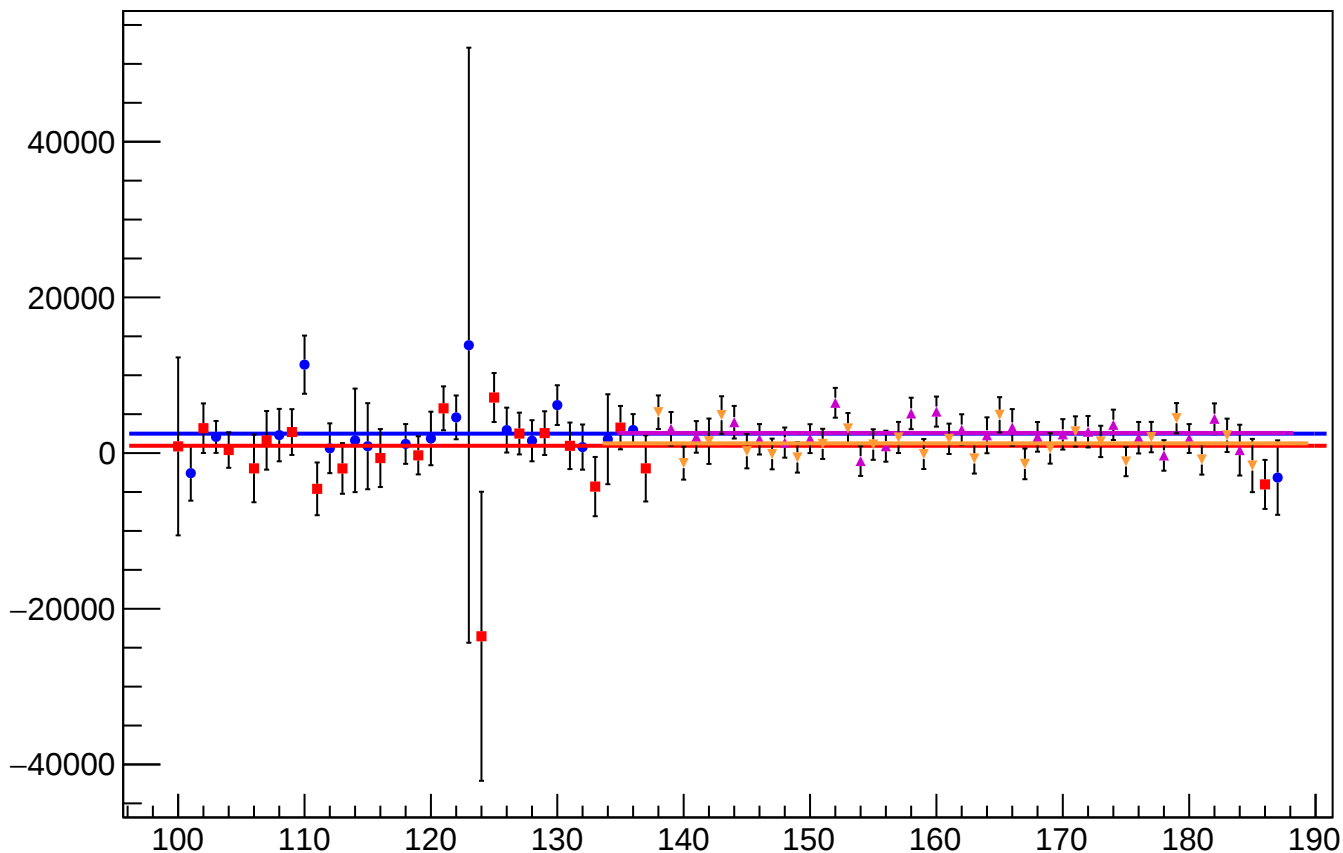
Right: 2418.541 $\pm$ 0.469 χ^2/NDF : 1225556.8/37

In: 2107.472 $\pm$ 0.306 χ^2/NDF : 989859.4/40

Out: 2119.720 $\pm$ 0.301 χ^2/NDF : 1733647.4/44

All: 2113.701 $\pm$ 0.215 χ^2/NDF : 2724319.2/85

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: 940.184+/-721.977 χ^2/NDF : 20.0/19

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

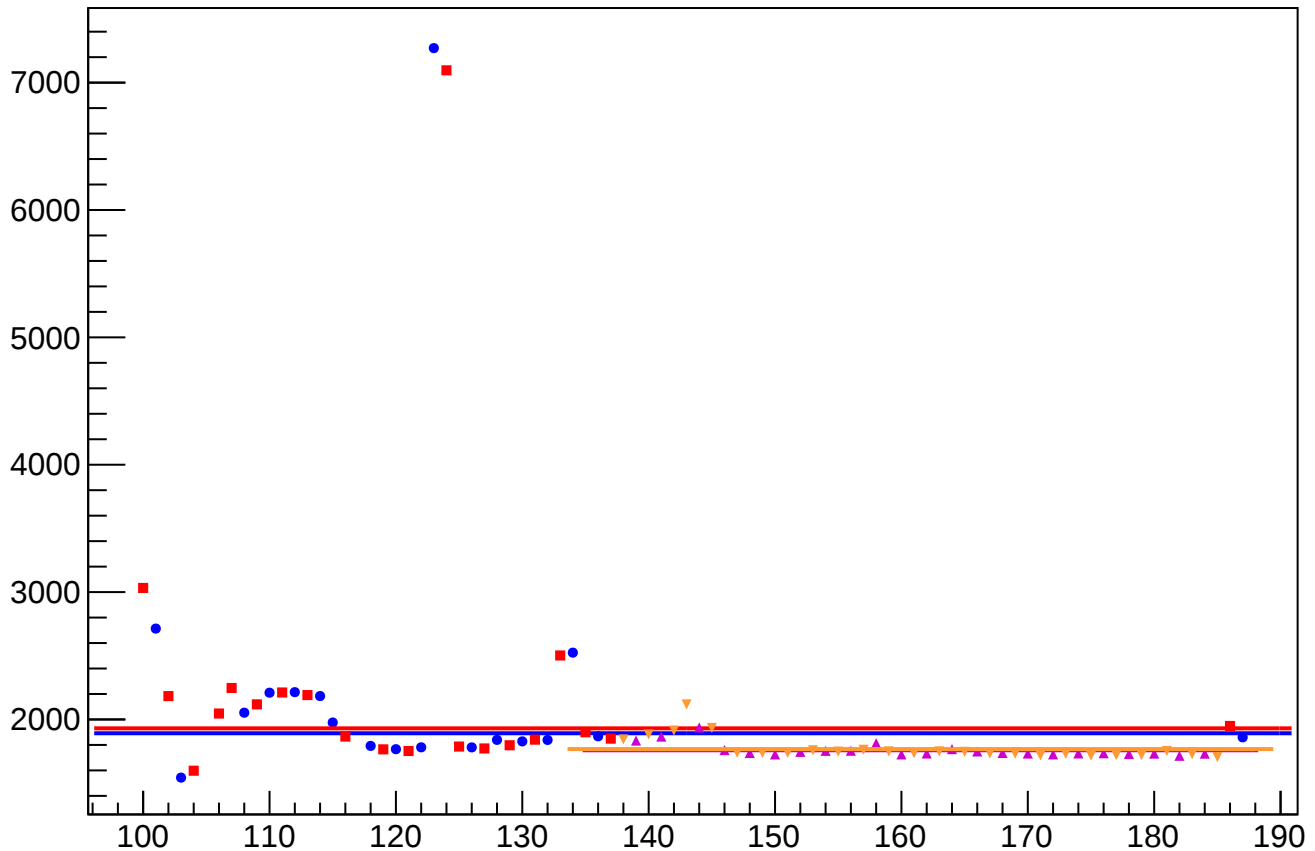
Right: 1703.309+/-515.495 χ^2/NDF : 35.5/37

In: 2564.726+/-365.806 χ^2/NDF : 30.6/40

Out: 1173.695+/-358.153 χ^2/NDF : 43.2/44

All: 1854.509+/-255.915 χ^2/NDF : 81.2/85

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: 1930.280+/-0.510 χ^2/NDF : 360353.9/19

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

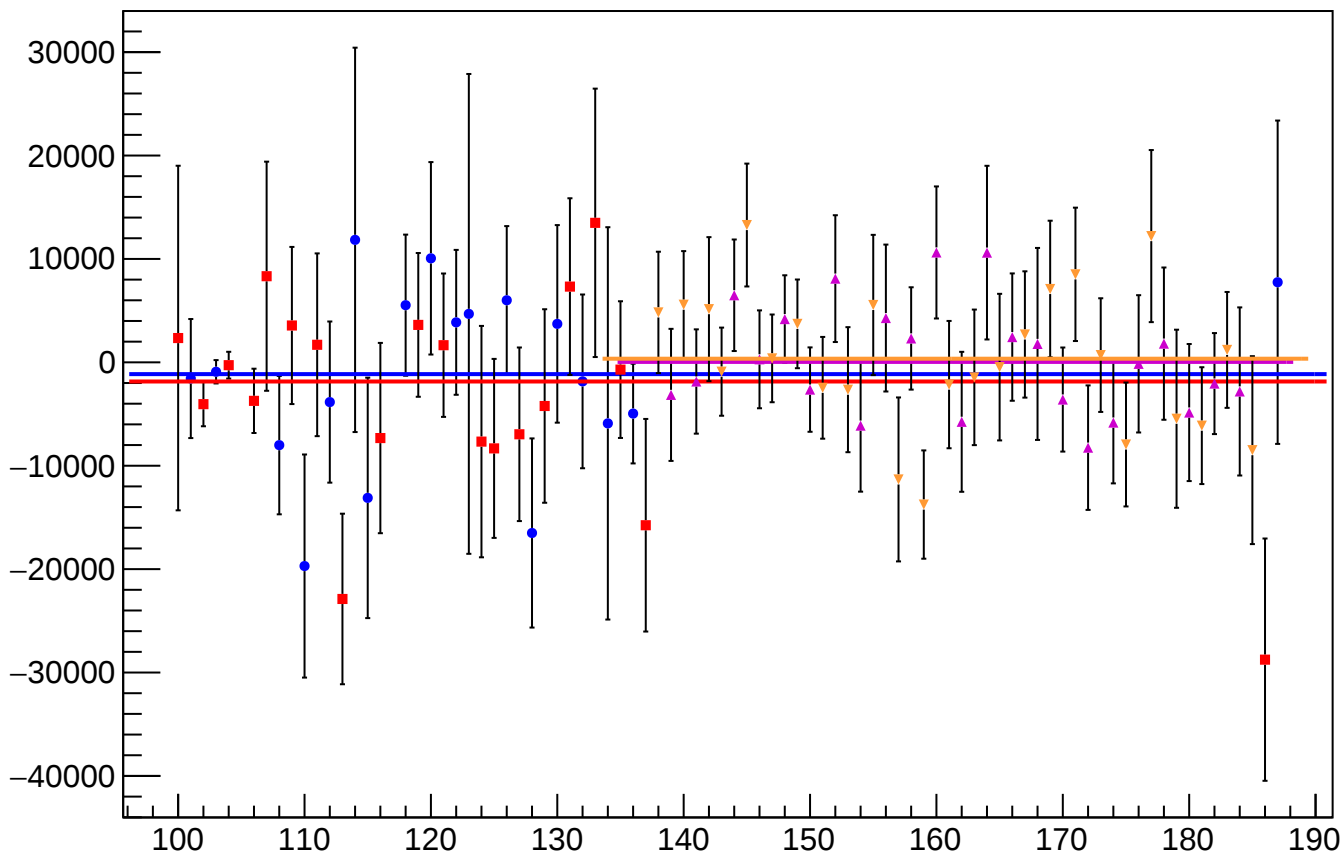
Right: 1911.346+/-0.364 χ^2/NDF : 650993.5/37

In: 1791.035+/-0.259 χ^2/NDF : 367163.9/40

Out: 1807.661+/-0.253 χ^2/NDF : 514834.8/44

All: 1799.527+/-0.181 χ^2/NDF : 884109.0/85

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: -1852.995 $\pm$ 939.027 χ^2 /NDF: 23.2/19

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

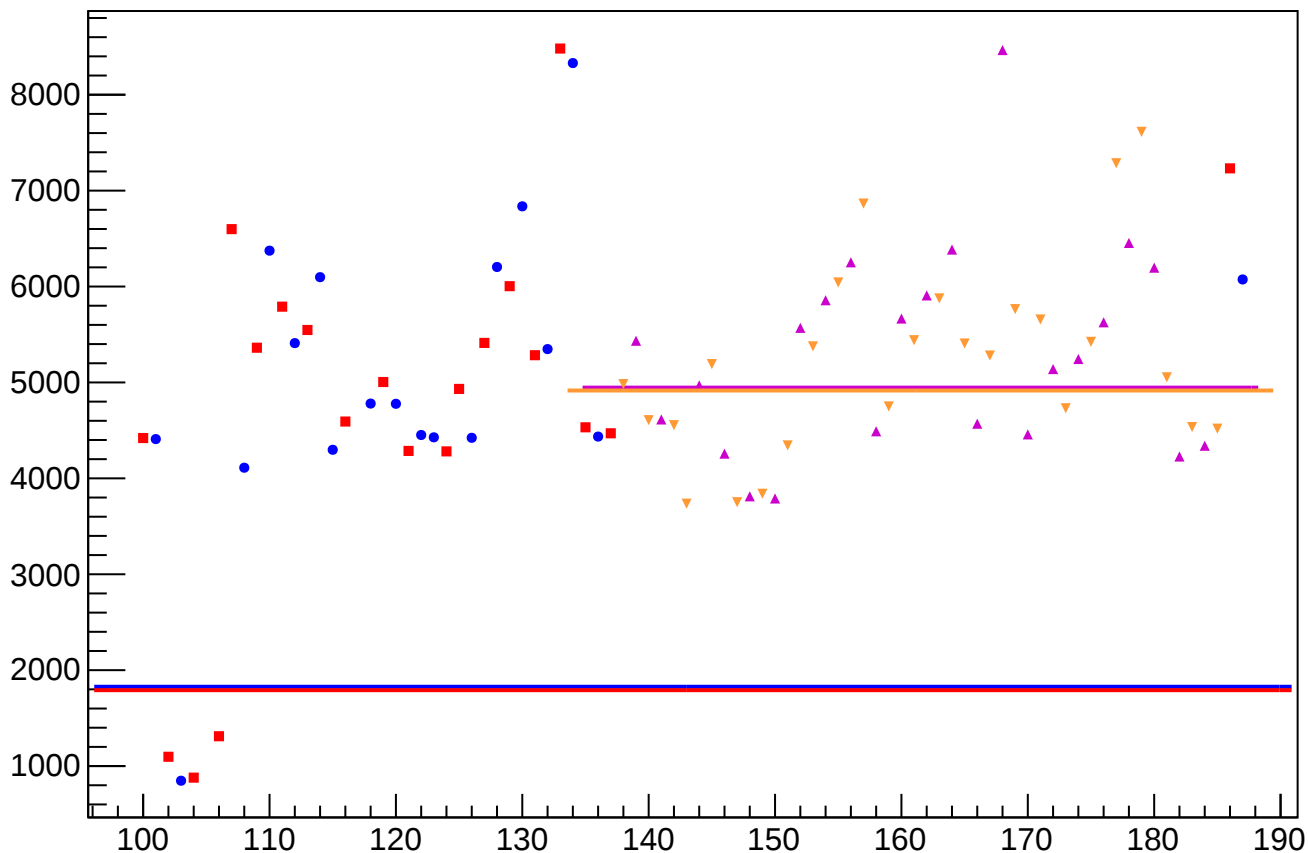
Right: -1512.912 $\pm$ 679.106 χ^2 /NDF: 37.2/37

In: -669.252 $\pm$ 762.471 χ^2 /NDF:30.4/40

Out: -989.468 $\pm$ 732.344 χ^2 /NDF:53.1/44

All: -835.811 $\pm$ 528.175 χ^2 /NDF: 83.6/85

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: 1791.375+/-0.664 χ^2/NDF : 6729548.1/19

Left In: 4945.817+/-0.854 χ^2/NDF :1188288.6/22

Left: 4930.370+/-0.594 χ^2/NDF : 2375402.9/47

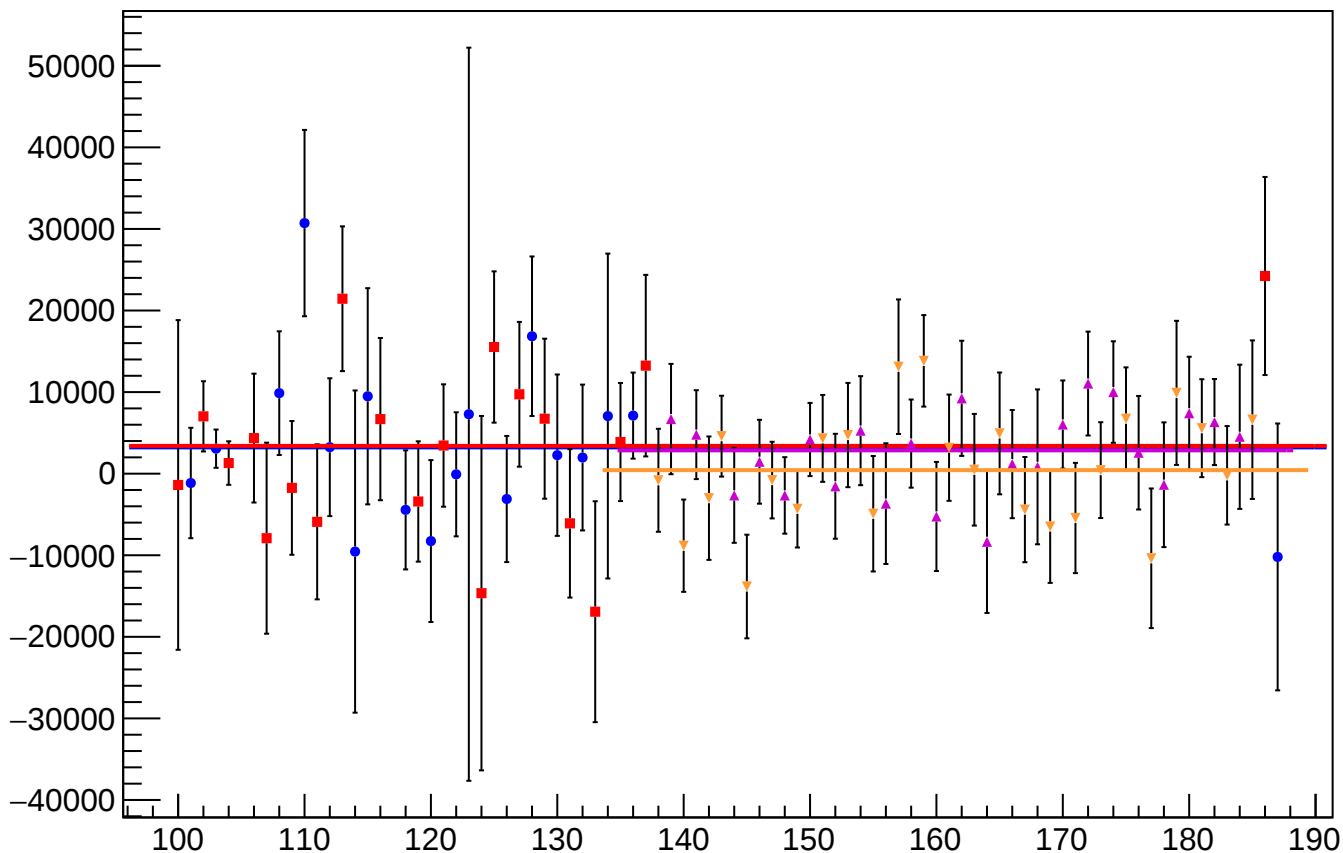
Right: 1808.343+/-0.480 χ^2/NDF : 13317630.8/37

In: 3070.535+/-0.539 χ^2/NDF :15797789.7/40

Out: 3015.427+/-0.518 χ^2/NDF :16590701.1/44

All: 3041.871+/-0.373 χ^2/NDF : 32393925.2/86

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: 3407.538+/-1594.120 χ^2/NDF : 18.9/19

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

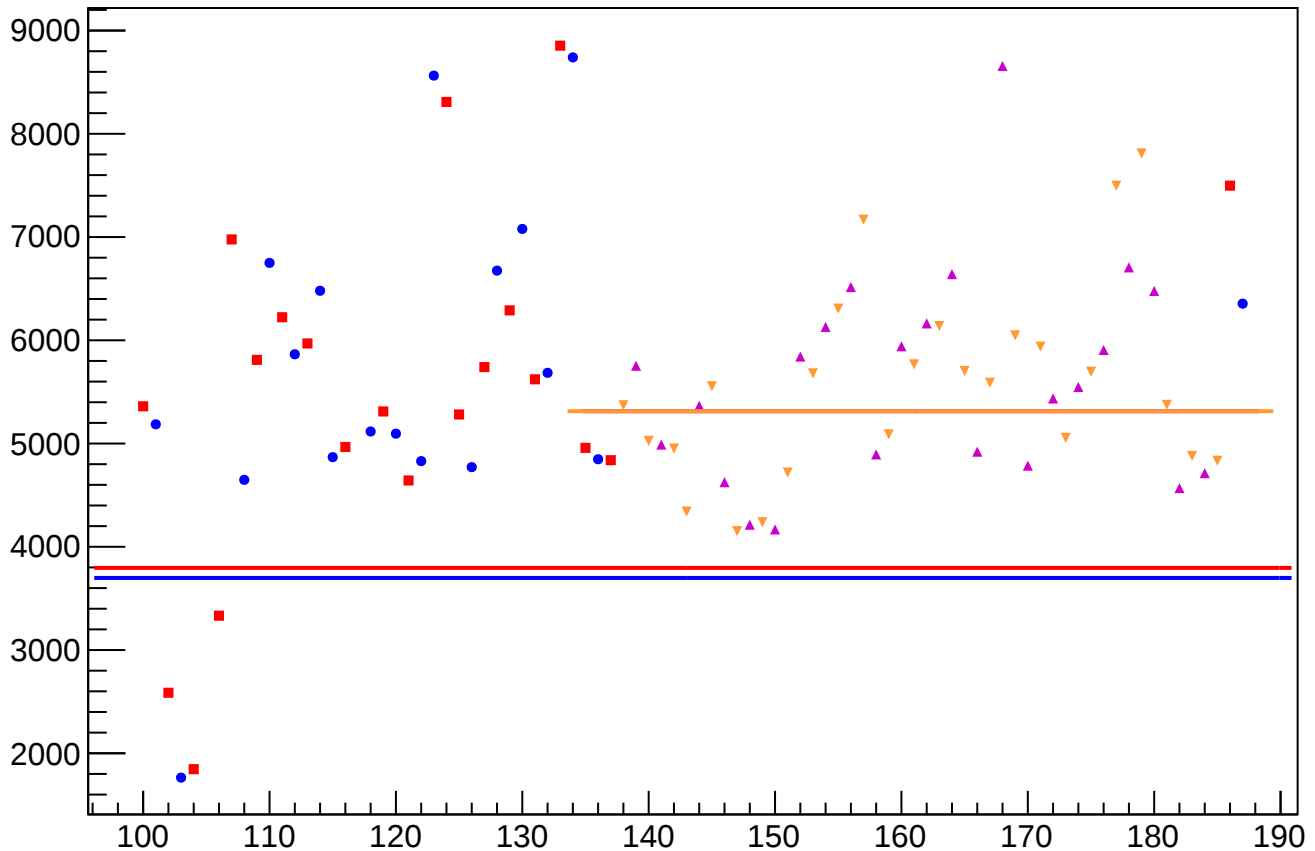
Right: 3316.355+/-1129.832 χ^2/NDF : 33.0/37

In: 3003.822+/-1005.734 χ^2/NDF : 27.1/40

Out: 1573.511+/-987.670 χ^2/NDF : 48.2/44

All: 2275.706+/-704.688 χ^2/NDF : 76.2/85

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 3698.452 $\pm$ 1.132 χ^2 /NDF: 2833437.5/17

Left Out: 5313.008 $\pm$ 0.890 χ^2 /NDF: 894369.8/24

Right Out: 3795.768 $\pm$ 1.120 χ^2 /NDF: 2881638.7/19

Left In: 5312.861 $\pm$ 0.914 χ^2 /NDF: 957400.7/22

Left: 5312.937 $\pm$ 0.637 χ^2 /NDF: 1851770.5/47

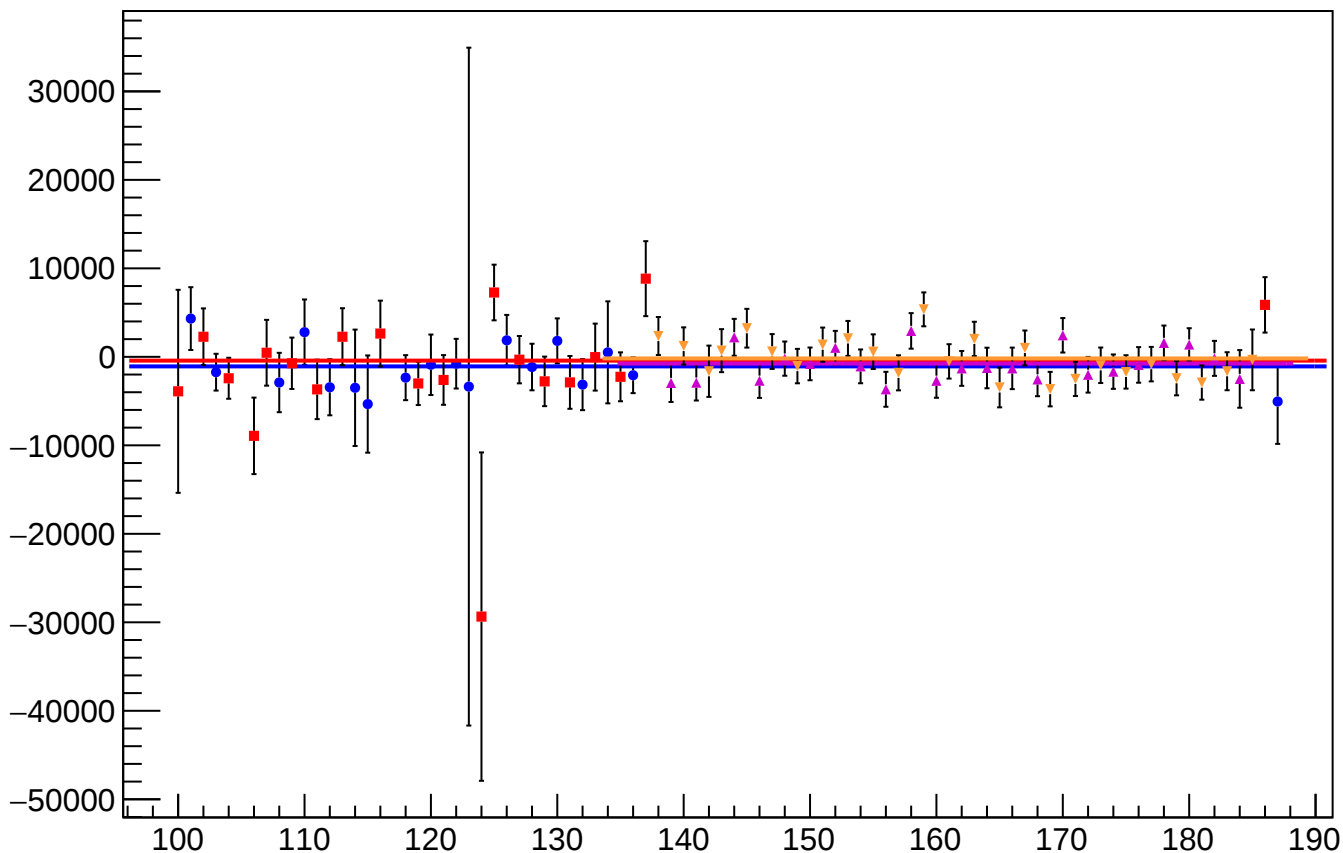
Right: 3747.656 $\pm$ 0.796 χ^2 /NDF: 5718809.8/37

In: 4676.216 $\pm$ 0.711 χ^2 /NDF: 5021659.1/40

Out: 4725.869 $\pm$ 0.697 χ^2 /NDF: 4901327.0/44

All: 4701.555 $\pm$ 0.498 χ^2 /NDF: 9925473.8/85

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: -426.962 $\pm$ 719.833 χ^2 /NDF: 28.6/19

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

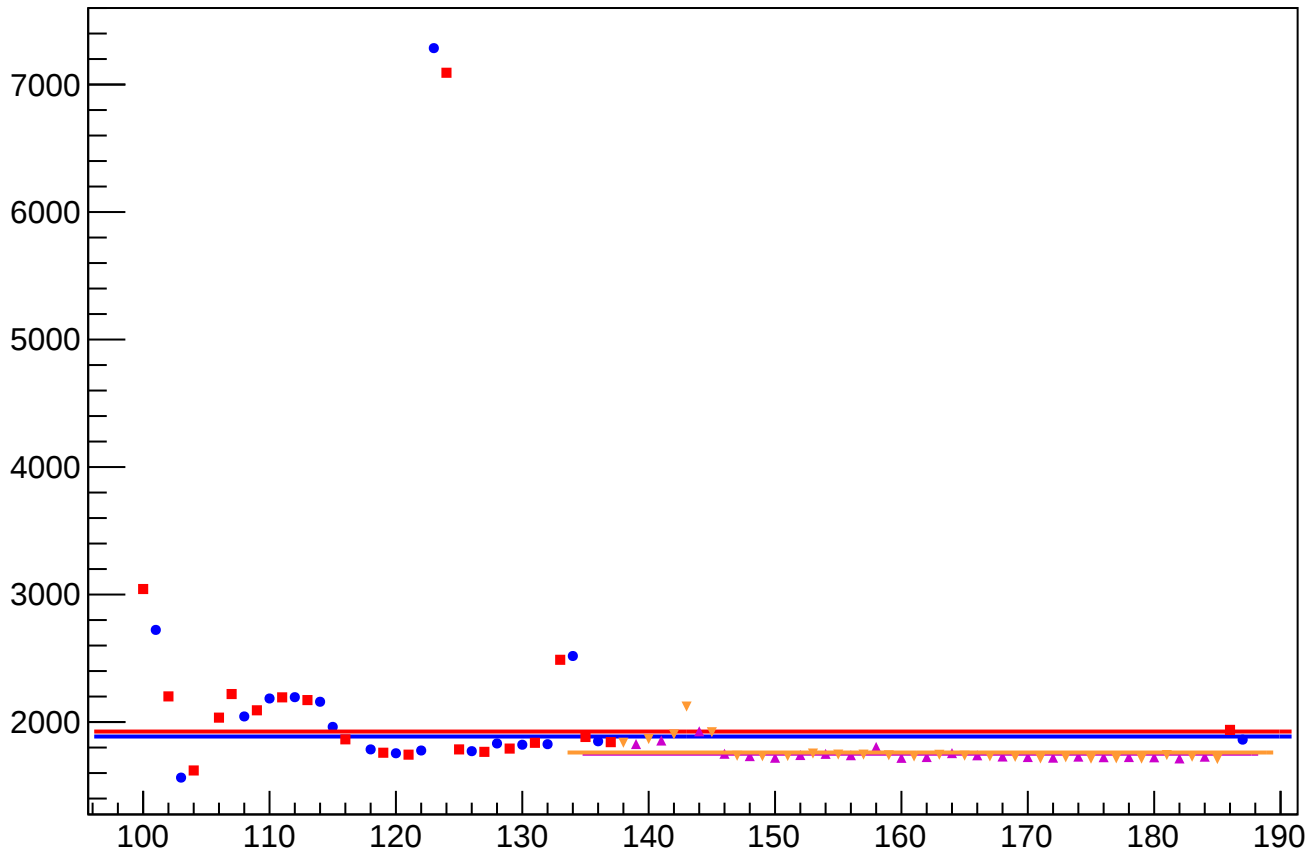
Right: -747.045 $\pm$ 513.952 χ^2 /NDF: 38.2/37

In: -838.685 $\pm$ 364.484 χ^2 /NDF:29.6/40

Out: -240.556 $\pm$ 356.903 χ^2 /NDF:57.9/44

All: -533.336 $\pm$ 255.007 χ^2 /NDF: 89.0/85

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1886.454 ± 0.519 $\chi^2/\text{NDF}: 279216.8/17$

Left Out: 1761.091 ± 0.291 $\chi^2/\text{NDF}: 77468.5/24$

Right Out: 1925.537 ± 0.508 $\chi^2/\text{NDF}: 349593.0/19$

Left In: 1751.418 ± 0.297 $\chi^2/\text{NDF}: 28578.7/22$

Left: 1756.358 ± 0.208 $\chi^2/\text{NDF}: 106589.3/47$

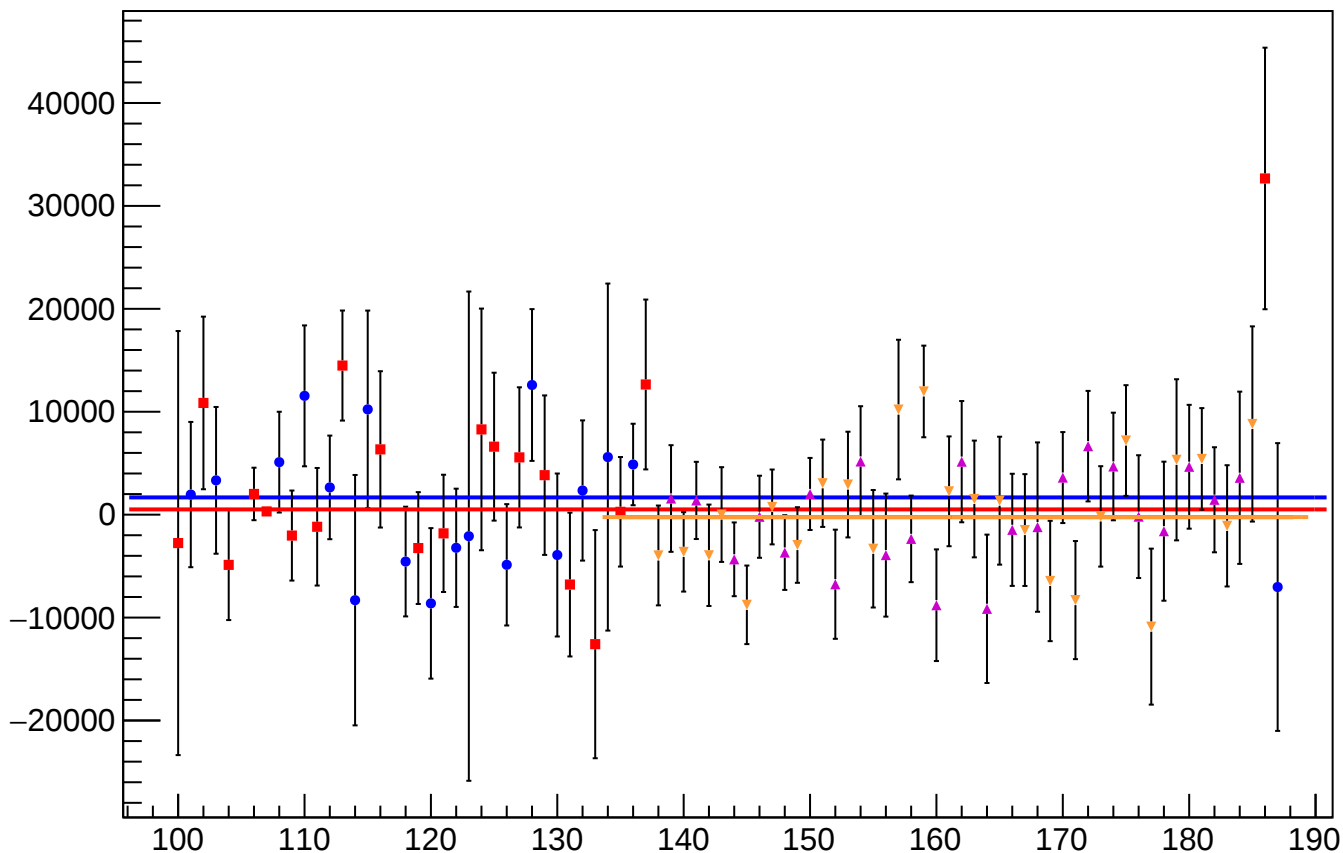
Right: 1906.407 ± 0.363 $\chi^2/\text{NDF}: 631704.2/37$

In: 1784.711 ± 0.258 $\chi^2/\text{NDF}: 358791.0/40$

Out: 1801.608 ± 0.252 $\chi^2/\text{NDF}: 505957.9/44$

All: 1793.340 ± 0.180 $\chi^2/\text{NDF}: 866944.0/85$

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: 510.566+/-453.476 χ^2/NDF : 24.5/19

Left In: -239.224+/-1028.883 χ^2/NDF : 15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

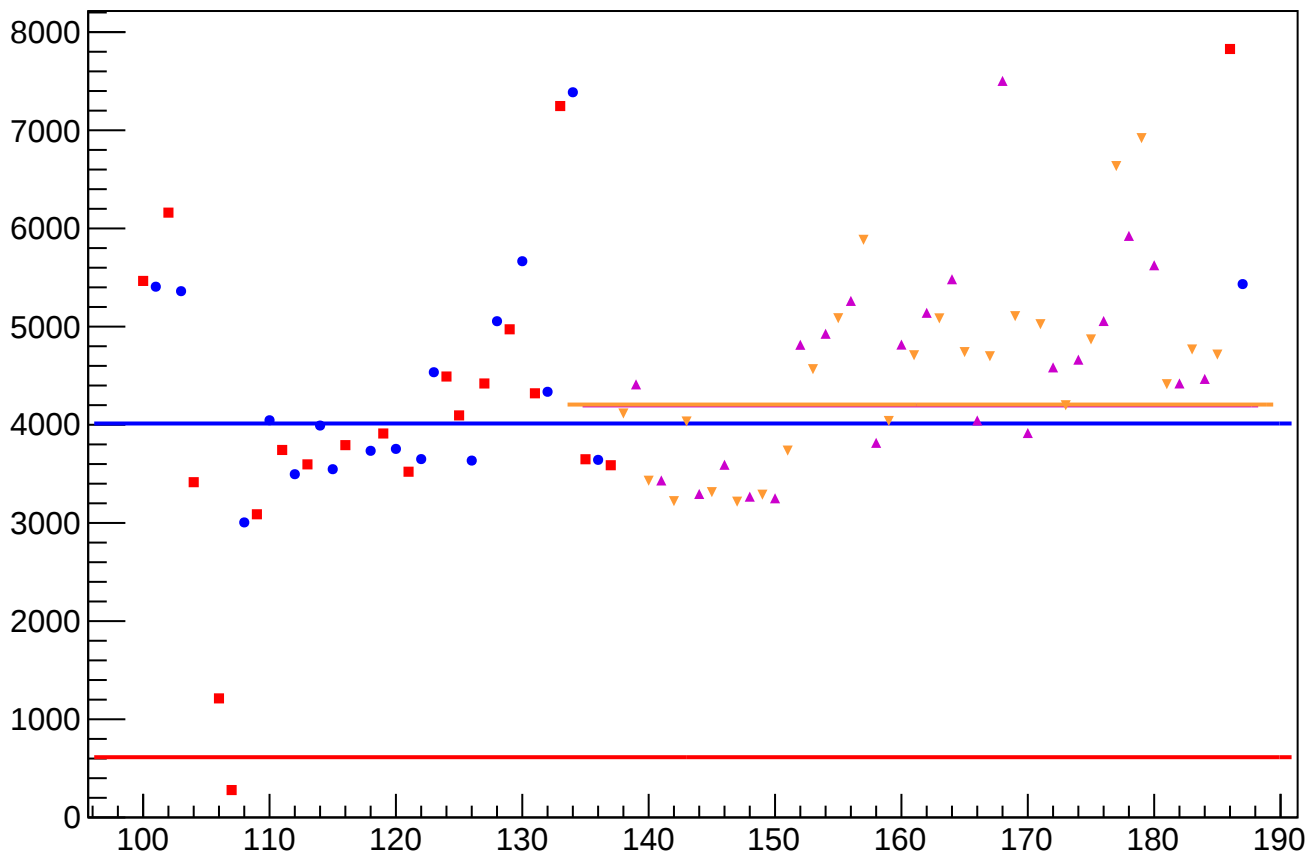
Right: 599.697+/-435.778 χ^2/NDF : 38.3/37

In: 333.271+/-861.413 χ^2/NDF : 29.6/40

Out: 384.341+/-413.356 χ^2/NDF : 53.8/44

All: 374.782+/-372.670 χ^2/NDF : 83.5/85

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4013.110 $\pm$ 1.114 χ^2/NDF : 535023.6/17

Left Out: 4206.076 $\pm$ 0.711 χ^2/NDF : 1442269.3/24

Right Out: 613.795 $\pm$ 0.321 χ^2/NDF : 10858607.9/19

Left In: 4197.267 $\pm$ 0.728 χ^2/NDF : 1471012.9/22

Left: 4201.775 $\pm$ 0.508 χ^2/NDF : 2913357.2/47

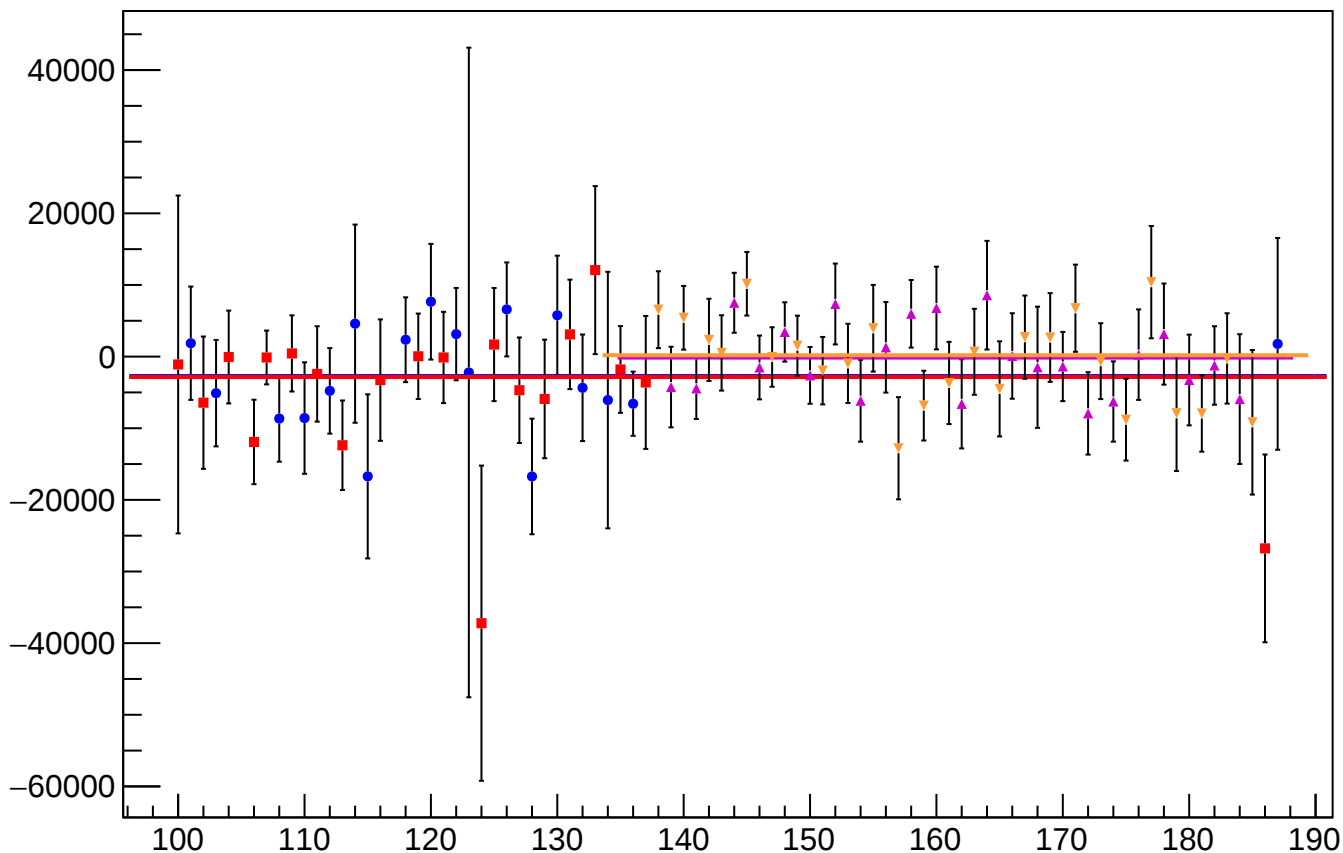
Right: 873.951 $\pm$ 0.308 χ^2/NDF : 19994570.9/37

In: 4142.196 $\pm$ 0.609 χ^2/NDF : 2025197.1/40

Out: 1221.317 $\pm$ 0.292 χ^2/NDF : 33526154.2/44

All: 1768.005 $\pm$ 0.264 χ^2/NDF : 54242505.2/8

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: -2852.655+/-1566.646 χ^2/NDF : 14.9/19

Left In: -137.477+/-1129.656 χ^2/NDF :18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

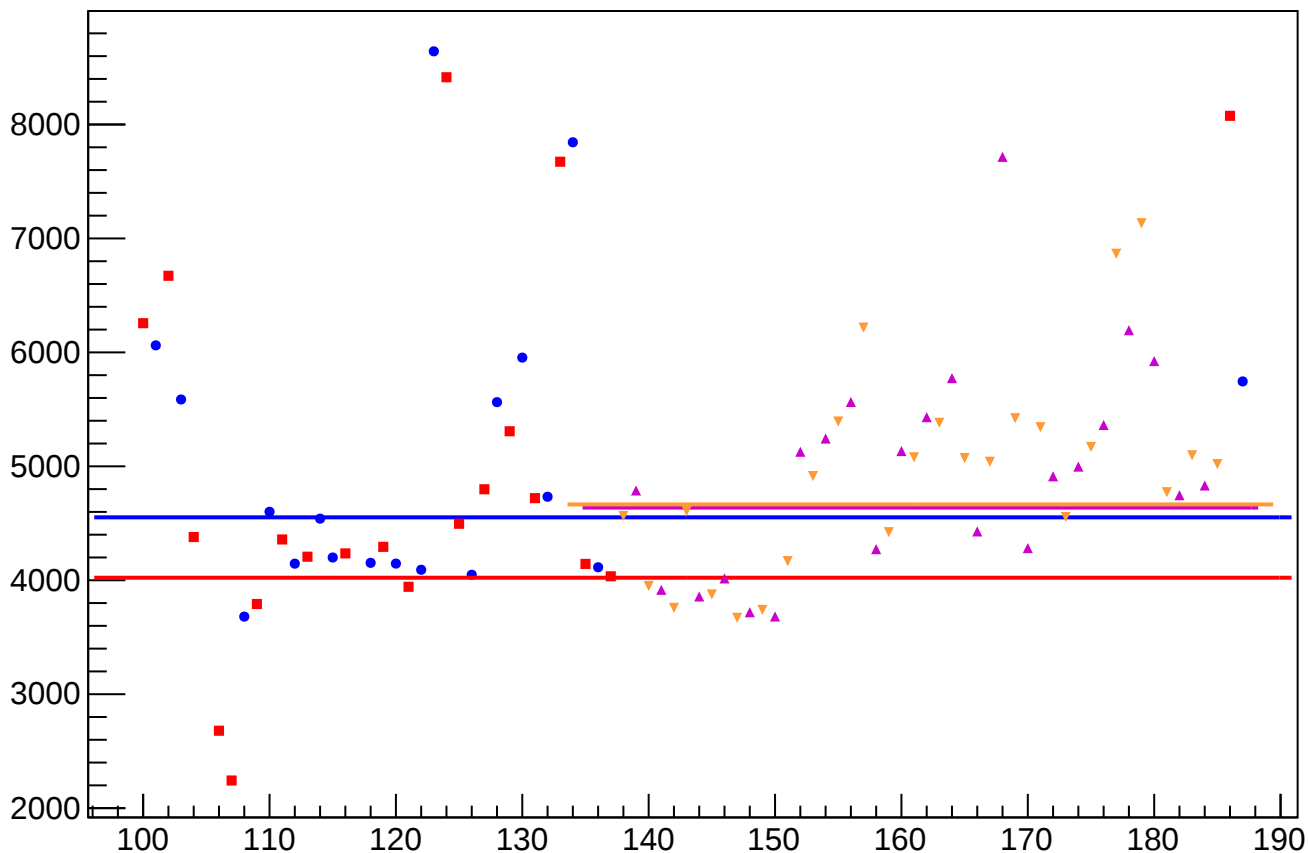
Right: -2794.656+/-1175.543 χ^2/NDF : 29.0/37

In: -879.942+/-953.536 χ^2/NDF :34.2/40

Out: -823.264+/-903.994 χ^2/NDF :42.4/44

All: -850.092+/-656.036 χ^2/NDF : 76.6/85

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: 4022.300 $\pm$ 1.101 χ^2 /NDF: 1336204.5/19

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

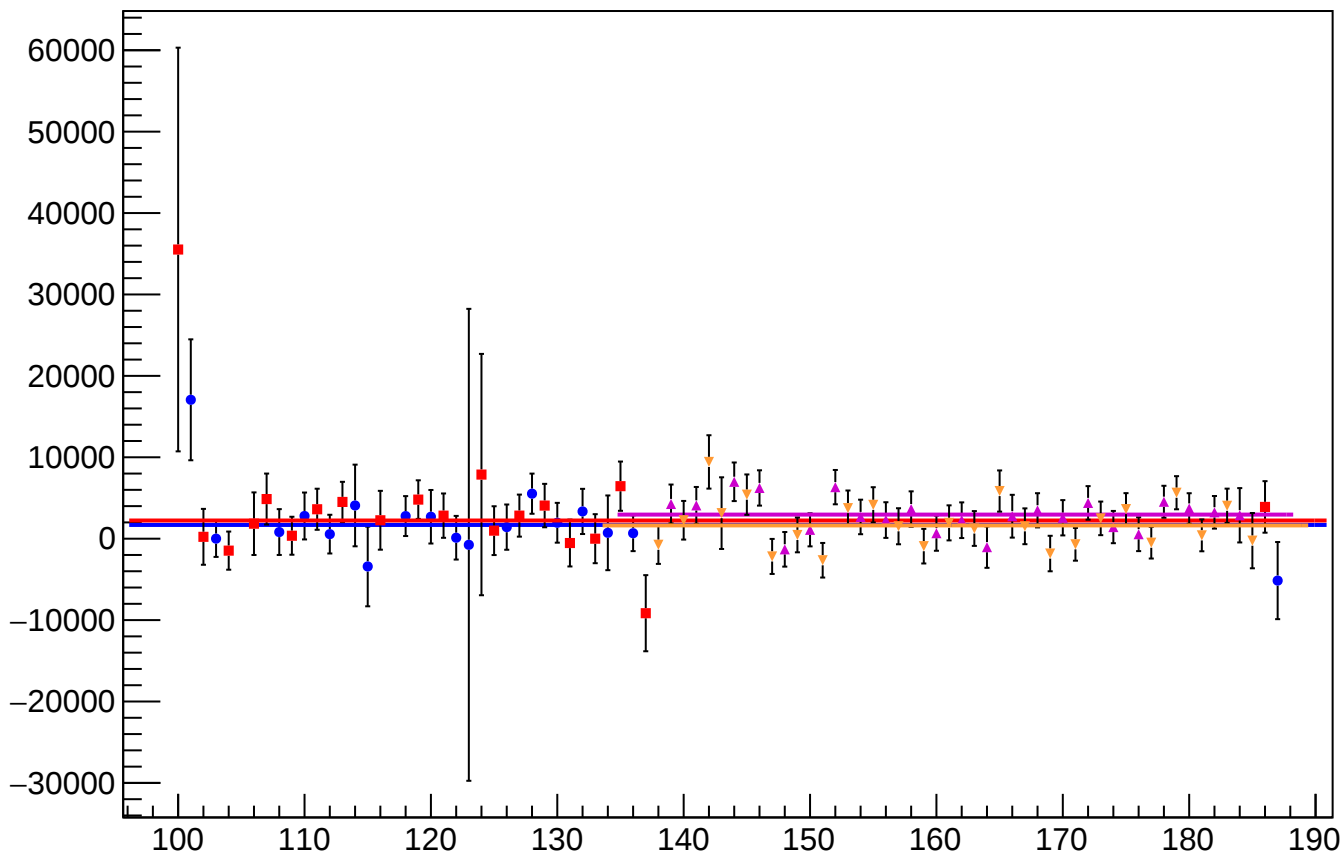
Right: 4252.224 $\pm$ 0.828 χ^2 /NDF: 1843187.1/37

In: 4613.193 $\pm$ 0.674 χ^2 /NDF:1474933.6/40

Out: 4449.605 $\pm$ 0.638 χ^2 /NDF:2580301.4/44

All: 4526.866 $\pm$ 0.463 χ^2 /NDF: 4086298.6/85

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: 2232.976+/-670.488 χ^2/NDF : 18.8/19

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

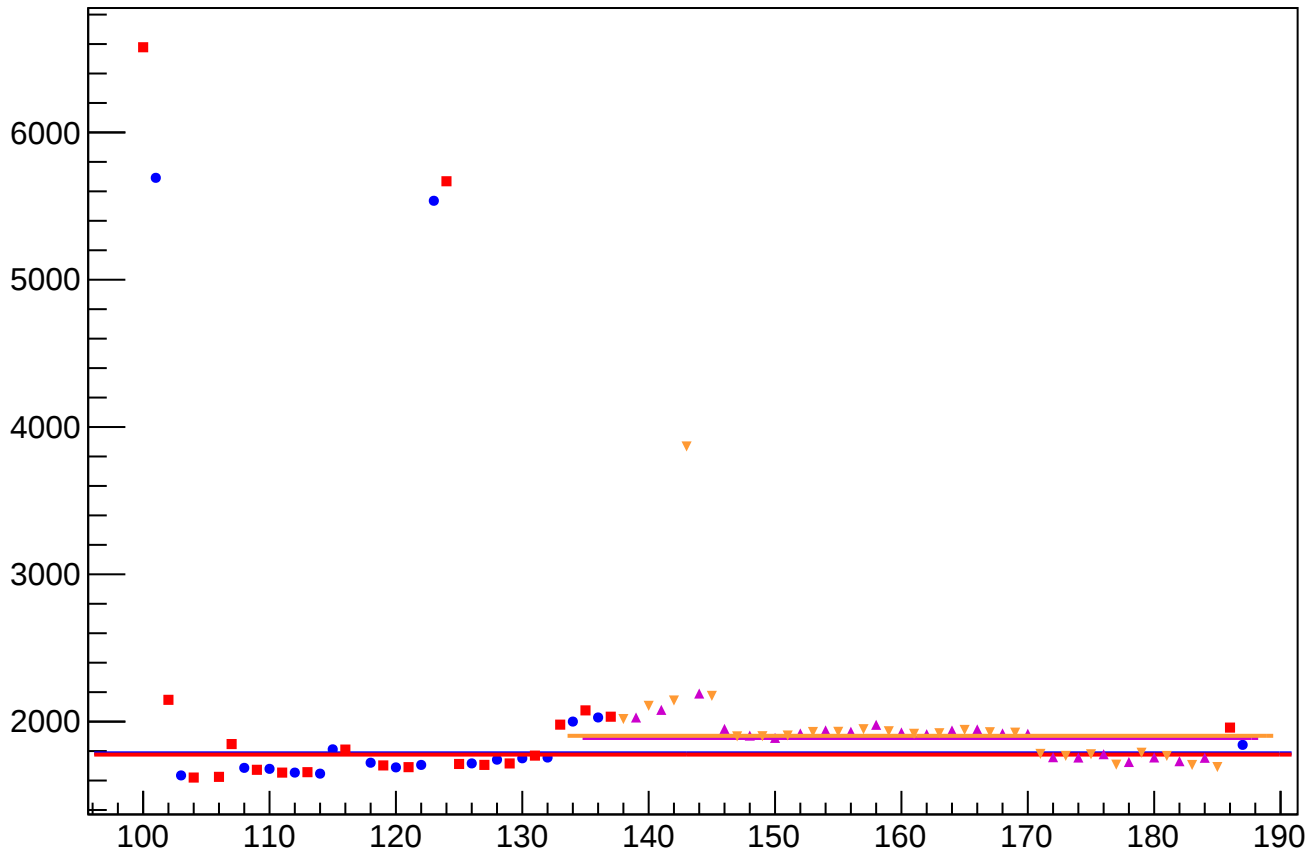
Right: 1974.263+/-485.939 χ^2/NDF : 31.6/37

In: 2586.724+/-381.559 χ^2/NDF : 35.1/40

Out: 1815.596+/-371.961 χ^2/NDF : 54.8/44

All: 2191.339+/-266.345 χ^2/NDF : 92.0/85

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: 1776.119+/-0.471 χ^2/NDF : 313039.9/19

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

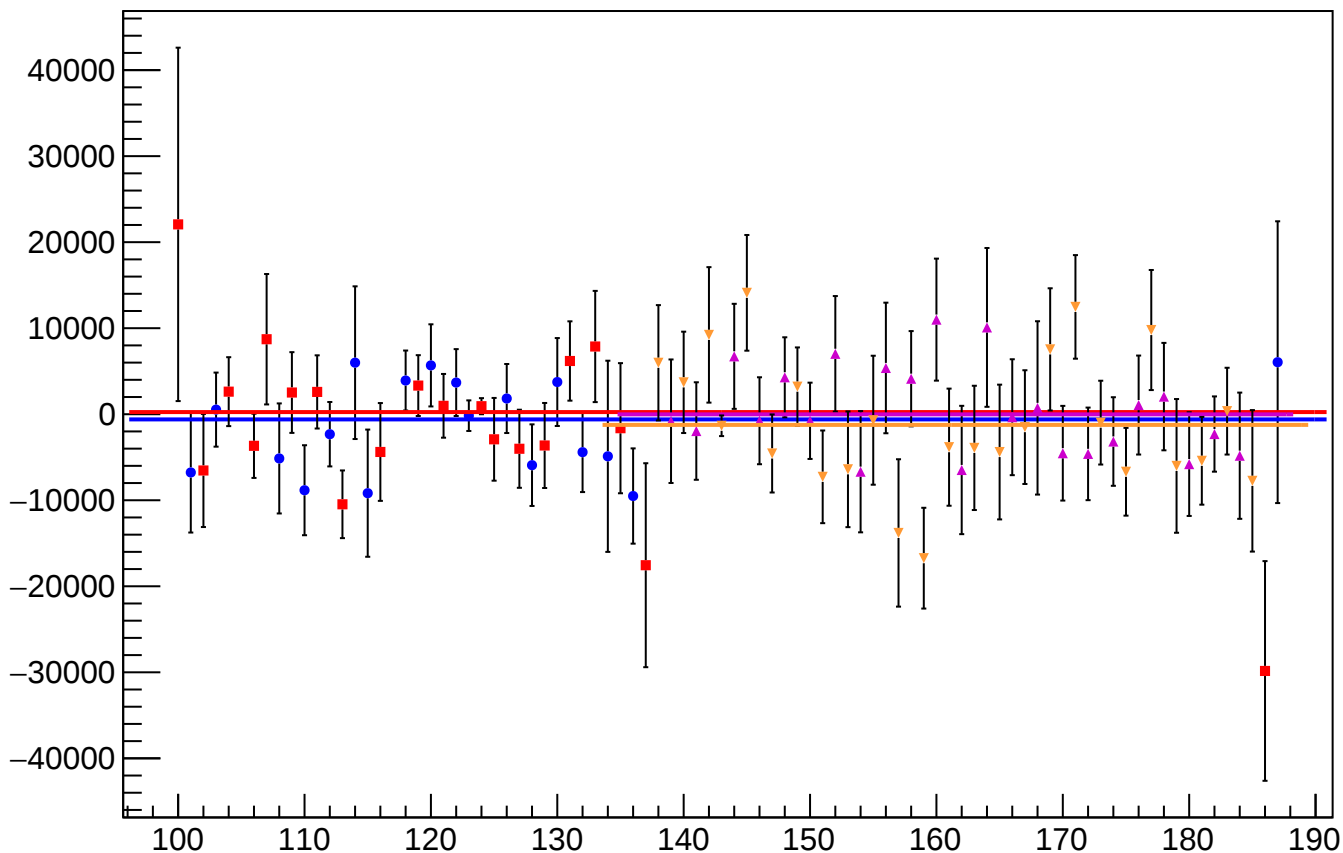
Right: 1780.203+/-0.342 χ^2/NDF : 958126.1/37

In: 1858.444+/-0.270 χ^2/NDF : 802190.7/40

Out: 1864.020+/-0.262 χ^2/NDF : 905137.3/44

All: 1861.309+/-0.188 χ^2/NDF : 1707547.4/85

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -602.906+/-1009.065 χ^2/NDF : 16.5/17

Left Out: -1239.833+/-865.201 χ^2/NDF : 33.9/24

Right Out: 250.568+/-724.707 χ^2/NDF : 27.7/19

Left In: -15.863+/-1243.317 χ^2/NDF : 13.2/22

Left: -840.501+/-710.172 χ^2/NDF : 47.8/47

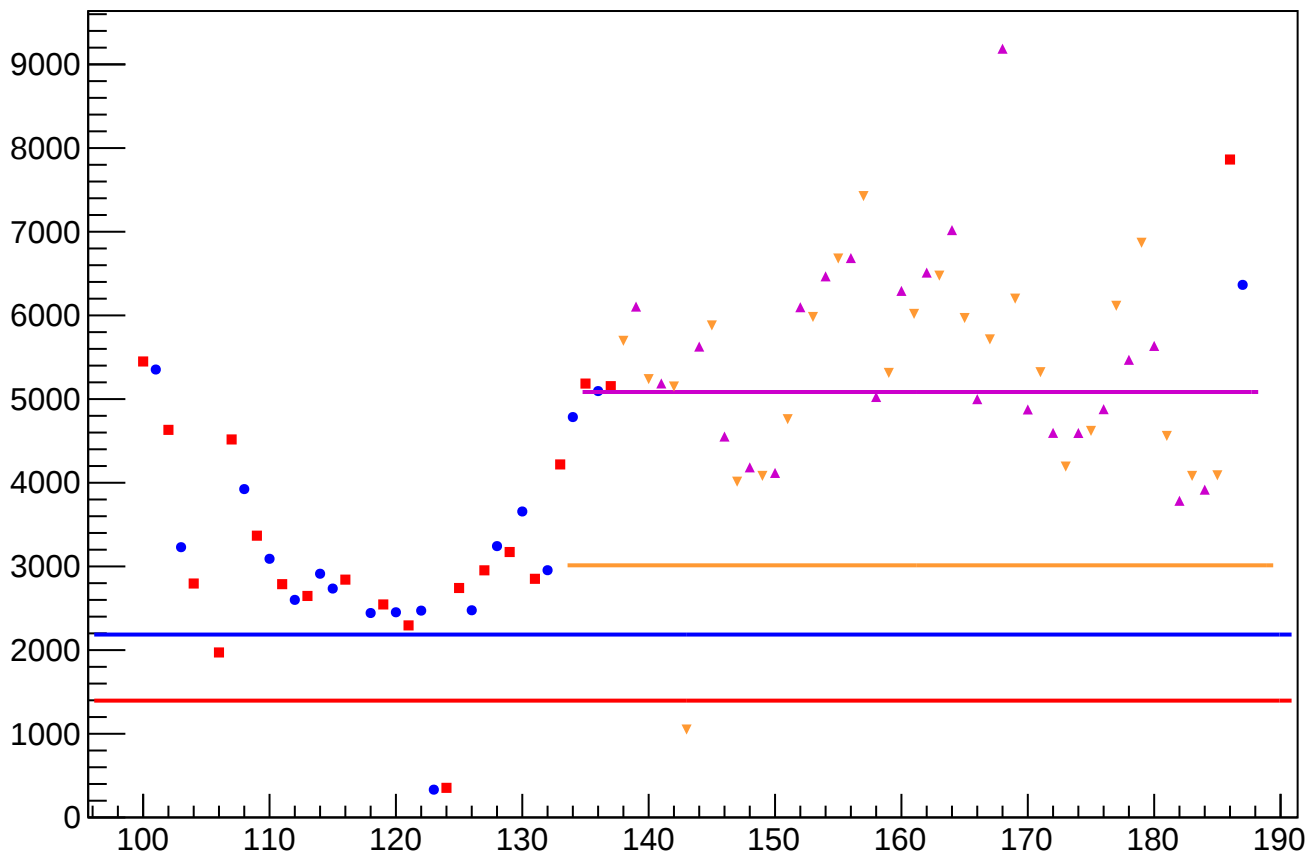
Right: -39.856+/-588.628 χ^2/NDF : 44.7/37

In: -369.785+/-783.498 χ^2/NDF : 29.9/40

Out: -363.951+/-555.563 χ^2/NDF : 63.4/44

All: -365.903+/-453.193 χ^2/NDF : 93.3/85

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: 1396.263 $\pm$ 0.512 χ^2 /NDF: 7353343.6/19

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

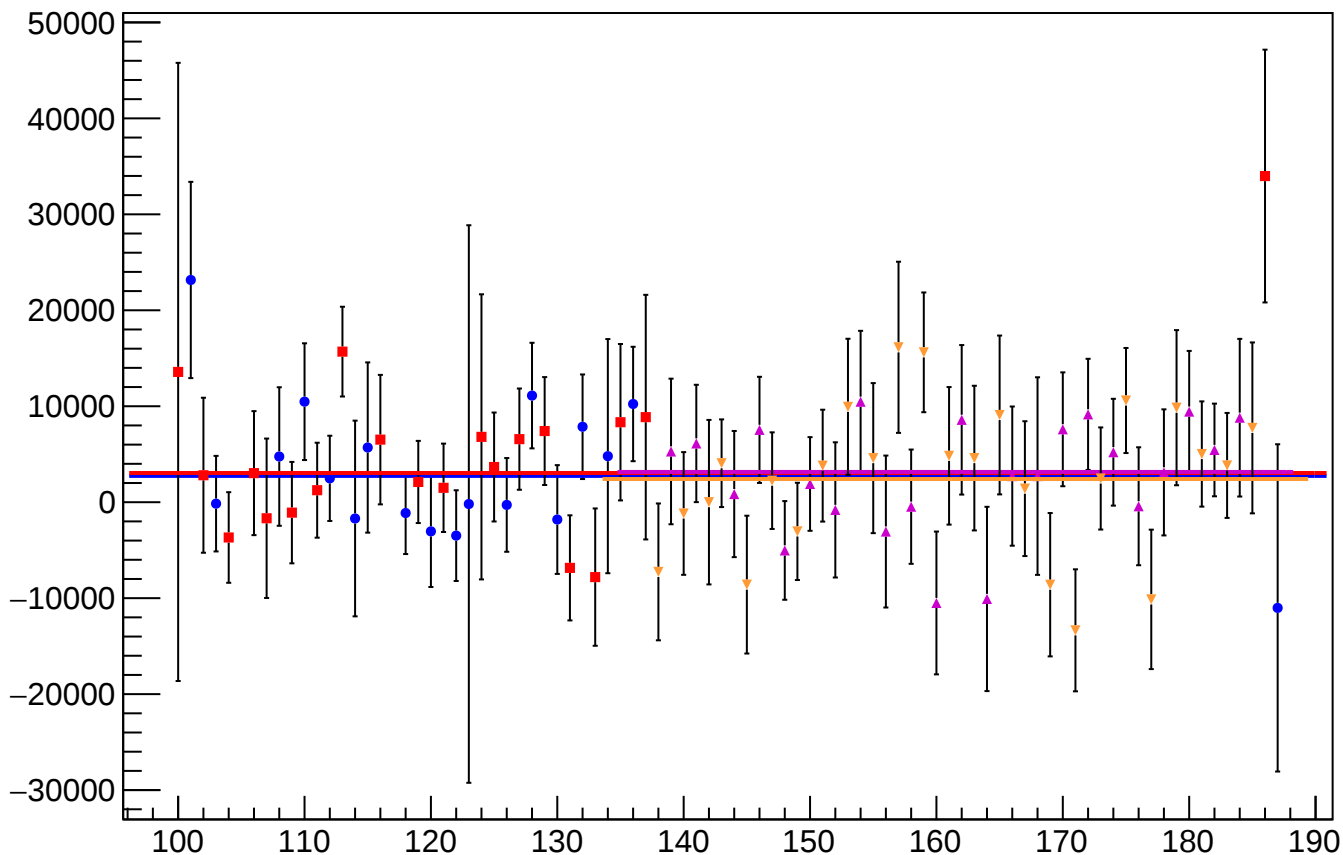
Right: 1664.943 $\pm$ 0.416 χ^2 /NDF: 12270009.3/37

In: 3336.986 $\pm$ 0.554 χ^2 /NDF: 11966939.9/40

Out: 2062.984 $\pm$ 0.393 χ^2 /NDF: 23729547.6/44

All: 2489.231 $\pm$ 0.320 χ^2 /NDF: 39215286.4/86

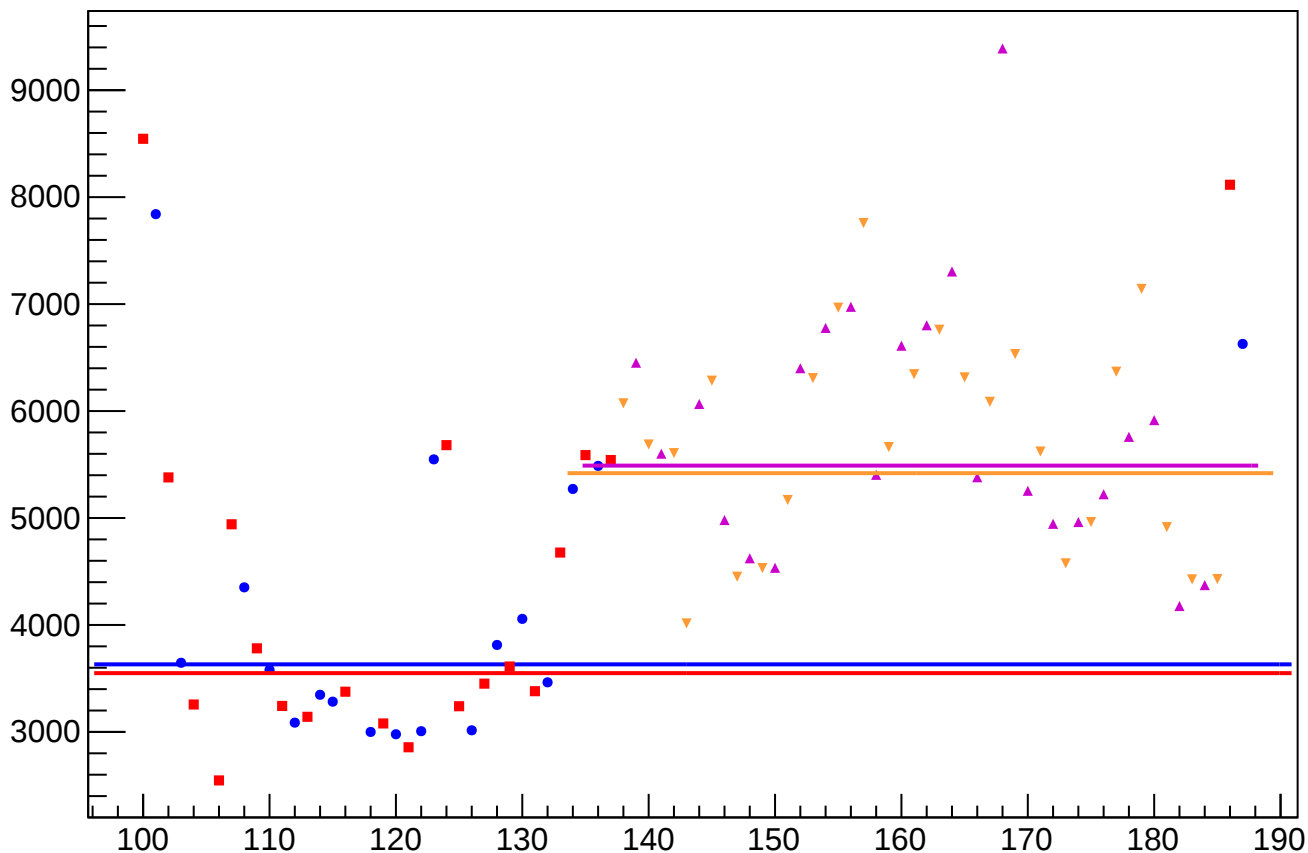
asym_atr1l2_avg_mean vs Slug, Sign Corrected



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: 3043.719+/-1375.375 χ^2/NDF : 23.8/19
 Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47
 Right: 2900.885+/-996.877 χ^2/NDF : 40.2/37
 In: 2964.258+/-982.121 χ^2/NDF : 31.9/40
 Out: 2709.566+/-939.535 χ^2/NDF : 53.8/44
 All: 2831.270+/-678.908 χ^2/NDF : 85.7/85

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: 3549.663+/-0.959 χ^2/NDF : 904515.4/19

Left In: 5489.885+/-0.946 χ^2/NDF :1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

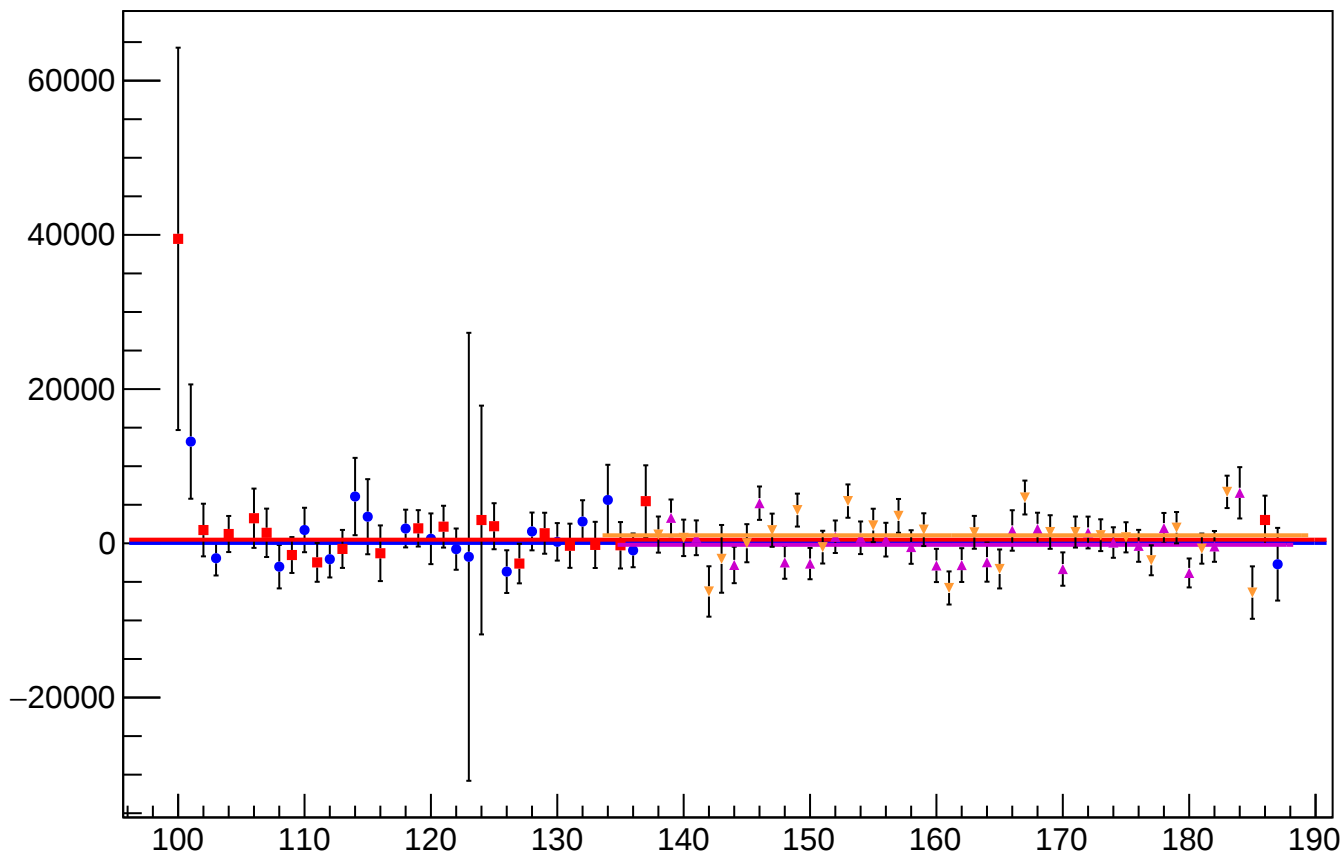
Right: 3588.050+/-0.700 χ^2/NDF : 1753313.3/37

In: 4633.810+/-0.694 χ^2/NDF :3688473.4/40

Out: 4533.885+/-0.660 χ^2/NDF :4014950.0/44

All: 4581.308+/-0.478 χ^2/NDF : 7714301.4/85

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 52.874 ± 703.125 $\chi^2/\text{NDF}: 14.1/17$

Left Out: 1041.262 ± 446.249 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 473.439 ± 668.170 $\chi^2/\text{NDF}: 10.6/19$

Left In: -191.966 ± 453.055 $\chi^2/\text{NDF}: 30.0/22$

Left: 433.980 ± 317.925 $\chi^2/\text{NDF}: 82.3/47$

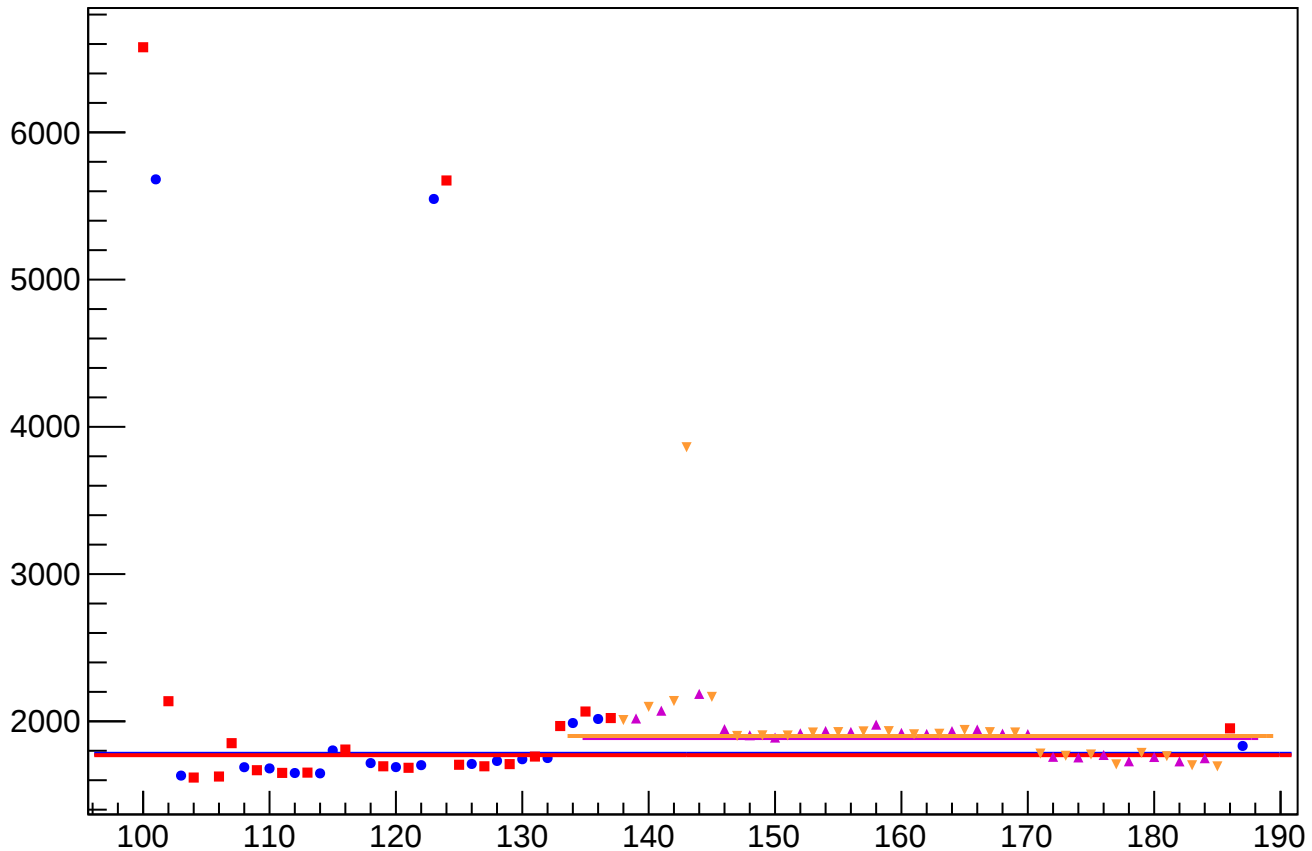
Right: 273.870 ± 484.354 $\chi^2/\text{NDF}: 24.9/37$

In: -120.136 ± 380.842 $\chi^2/\text{NDF}: 44.2/40$

Out: 866.111 ± 371.096 $\chi^2/\text{NDF}: 59.6/44$

All: 385.769 ± 265.783 $\chi^2/\text{NDF}: 107.3/85$

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: 1770.098+/-0.469 χ^2/NDF : 312348.9/19

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

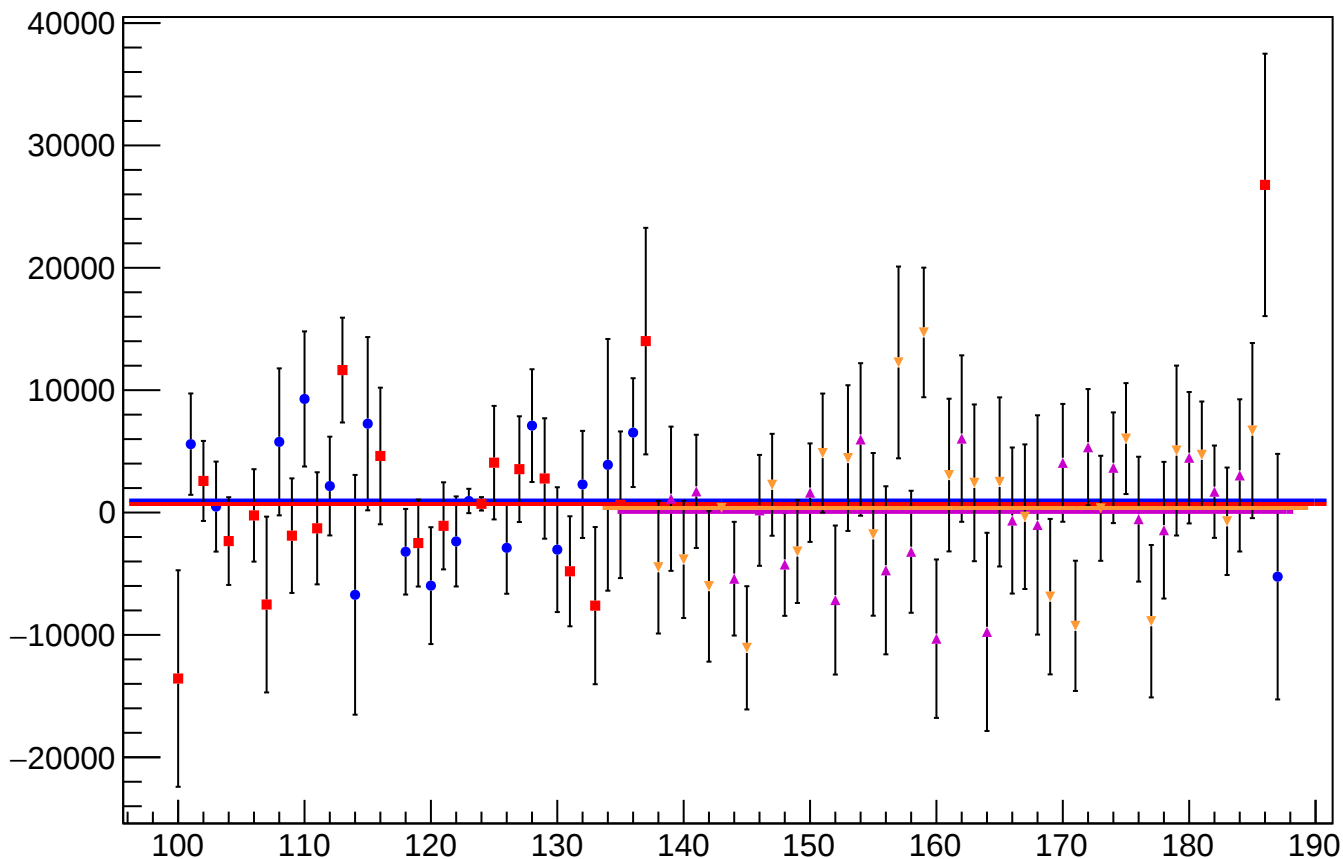
Right: 1774.489+/-0.341 χ^2/NDF : 955779.8/37

In: 1854.998+/-0.269 χ^2/NDF : 799470.0/40

Out: 1859.769+/-0.262 χ^2/NDF : 903232.4/44

All: 1857.450+/-0.188 χ^2/NDF : 1702863.8/85

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: 697.775 $\pm$ 487.769 χ^2 /NDF: 25.9/19

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

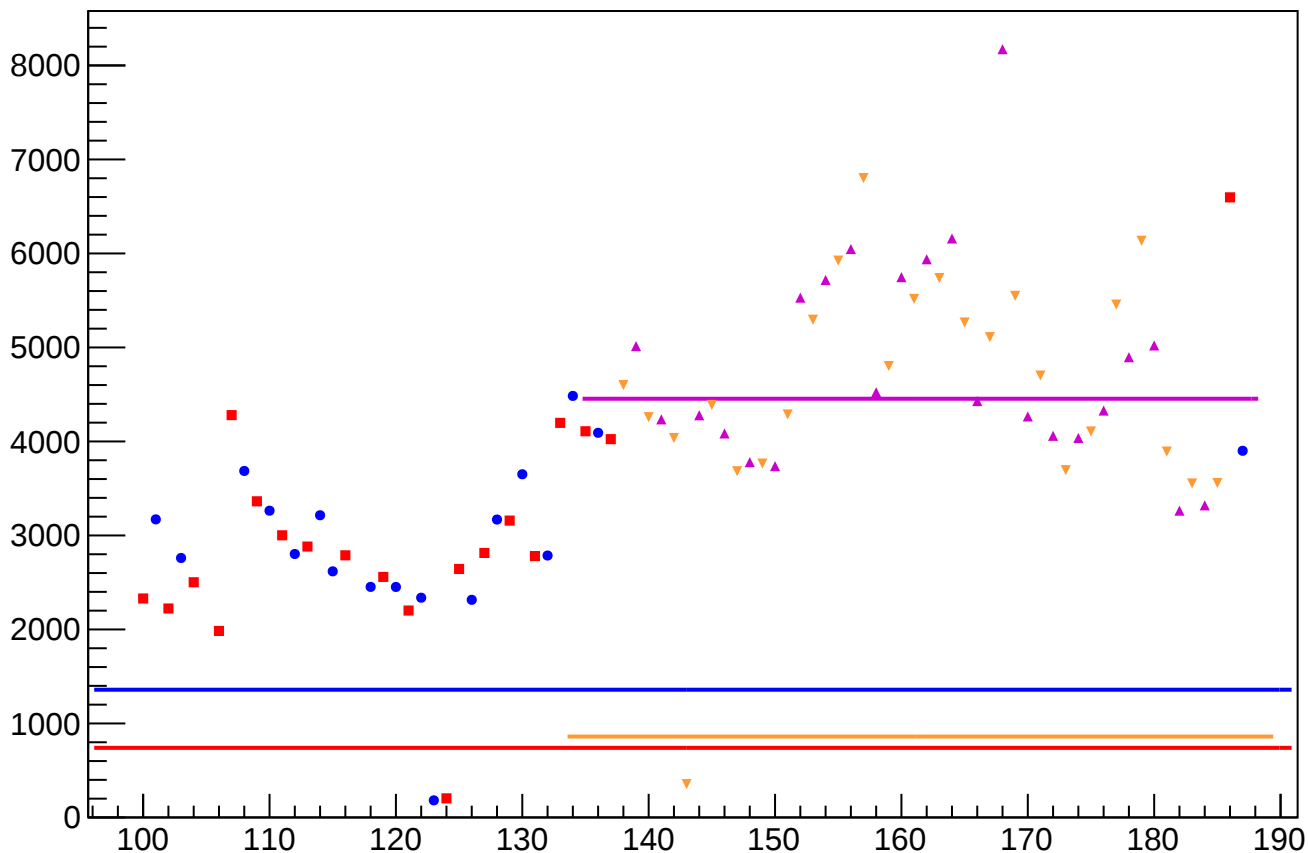
Right: 781.712 $\pm$ 409.096 χ^2 /NDF: 41.6/37

In: 682.020 $\pm$ 618.521 χ^2 /NDF:30.6/40

Out: 496.669 $\pm$ 300.782 χ^2 /NDF:57.0/44

All: 532.118 $\pm$ 270.494 χ^2 /NDF: 87.7/85

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: 740.565 $\pm$ 0.345 χ^2 /NDF: 10078196.7/19

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

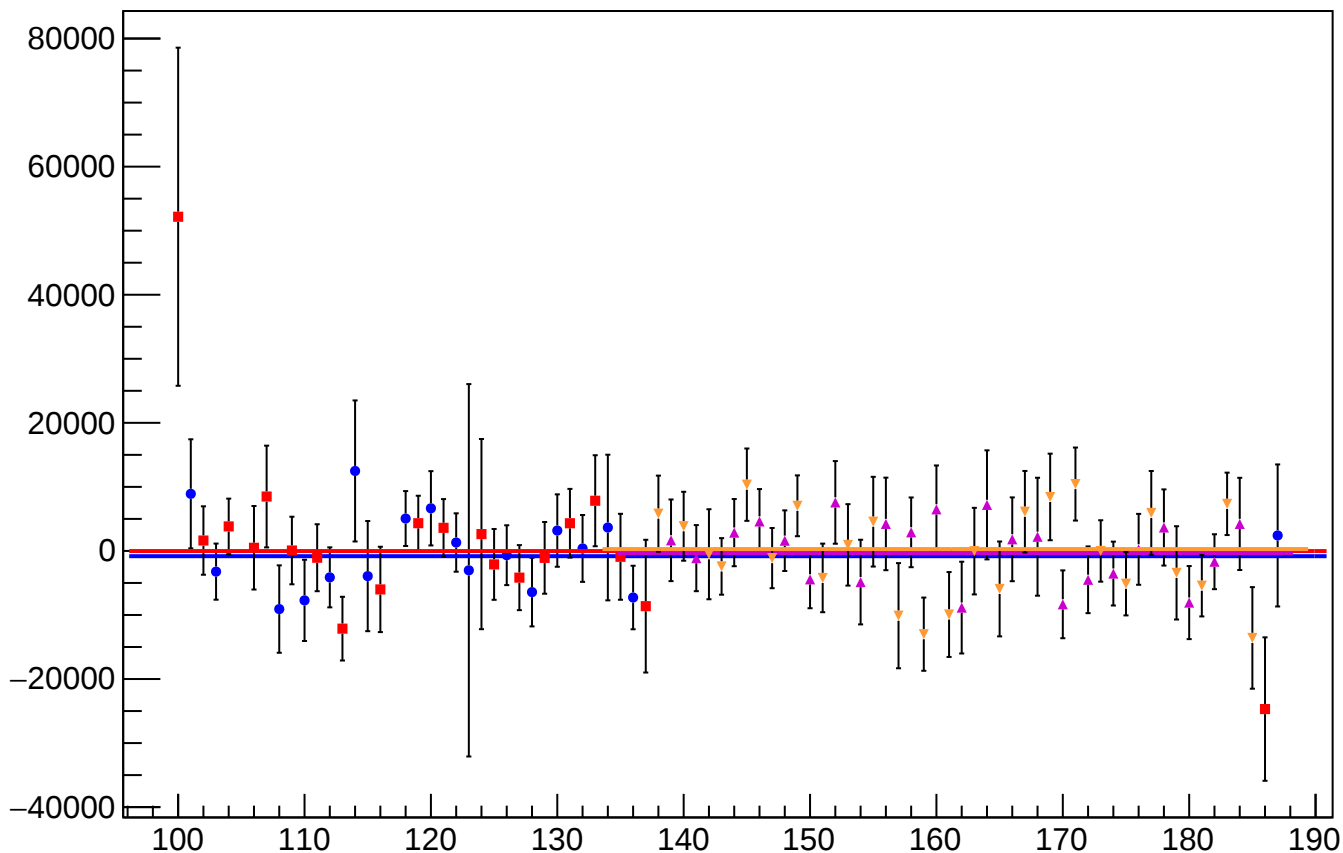
Right: 923.916 $\pm$ 0.289 χ^2 /NDF: 17995667.9/37

In: 2355.791 $\pm$ 0.437 χ^2 /NDF: 19252479.1/40

Out: 814.922 $\pm$ 0.213 χ^2 /NDF: 36493298.8/44

All: 1109.617 $\pm$ 0.191 χ^2 /NDF: 65784197.4/8

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -822.452 ± 1389.076 $\chi^2/\text{NDF}: 13.7/17$

Left Out: 288.508 ± 1155.419 $\chi^2/\text{NDF}: 32.4/24$

Right Out: -21.330 ± 1323.994 $\chi^2/\text{NDF}: 22.7/19$

Left In: -332.488 ± 1196.011 $\chi^2/\text{NDF}: 14.7/22$

Left: -11.273 ± 830.984 $\chi^2/\text{NDF}: 47.2/47$

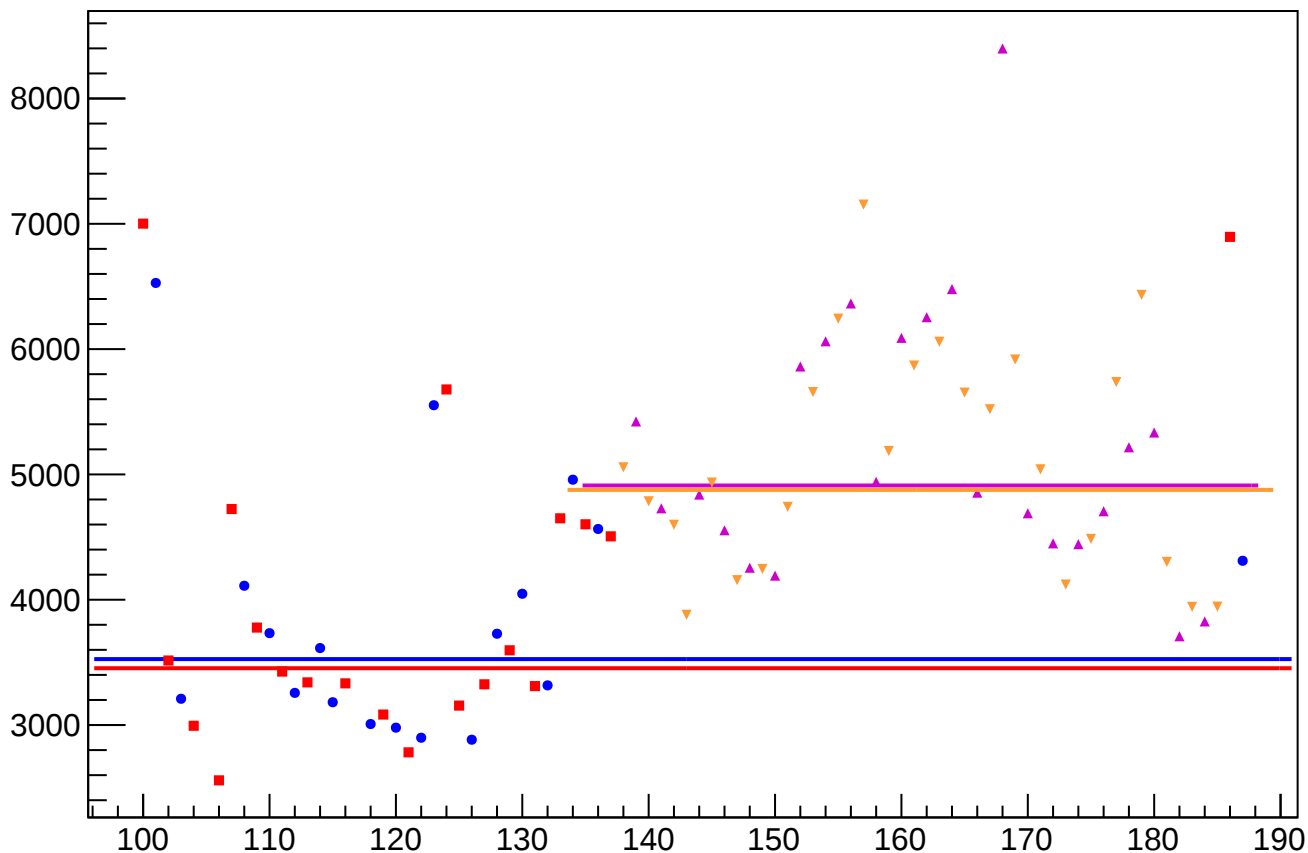
Right: -402.685 ± 958.387 $\chi^2/\text{NDF}: 36.6/37$

In: -541.081 ± 906.344 $\chi^2/\text{NDF}: 28.4/40$

Out: 154.558 ± 870.543 $\chi^2/\text{NDF}: 55.2/44$

All: -179.251 ± 627.842 $\chi^2/\text{NDF}: 83.9/85$

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3526.195 $\pm$ 0.982 χ^2/NDF : 570949.7/17

Left Out: 4876.564 $\pm$ 0.817 χ^2/NDF : 972528.1/24

Right Out: 3453.309 $\pm$ 0.924 χ^2/NDF : 620090.3/19

Left In: 4911.546 $\pm$ 0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2/NDF : 2016577.8/47

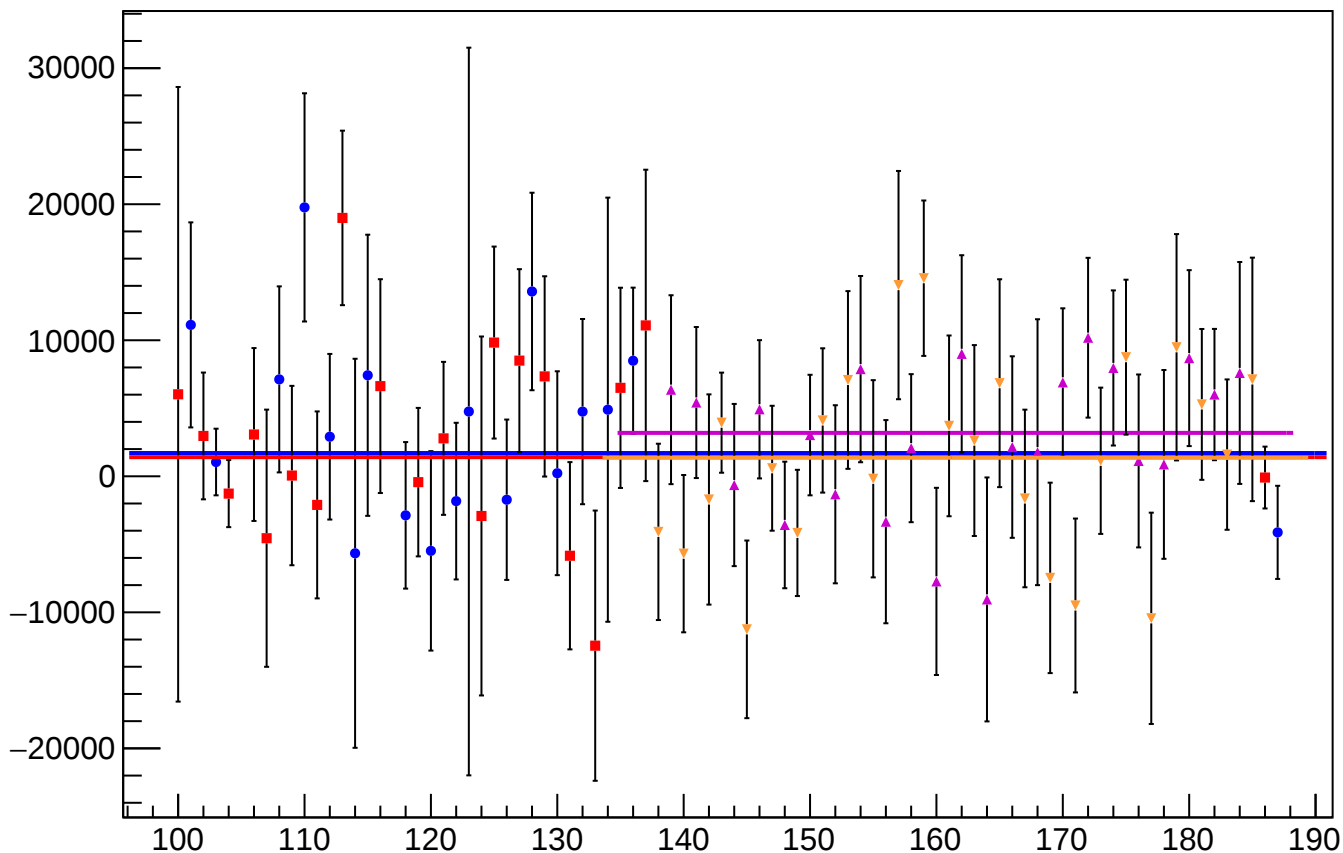
Right: 3487.535 $\pm$ 0.673 χ^2/NDF : 1193960.7/37

In: 4321.757 $\pm$ 0.641 χ^2/NDF : 2756509.9/40

Out: 4252.219 $\pm$ 0.612 χ^2/NDF : 2923864.3/44

All: 4285.392 $\pm$ 0.443 χ^2/NDF : 5686530.8/85

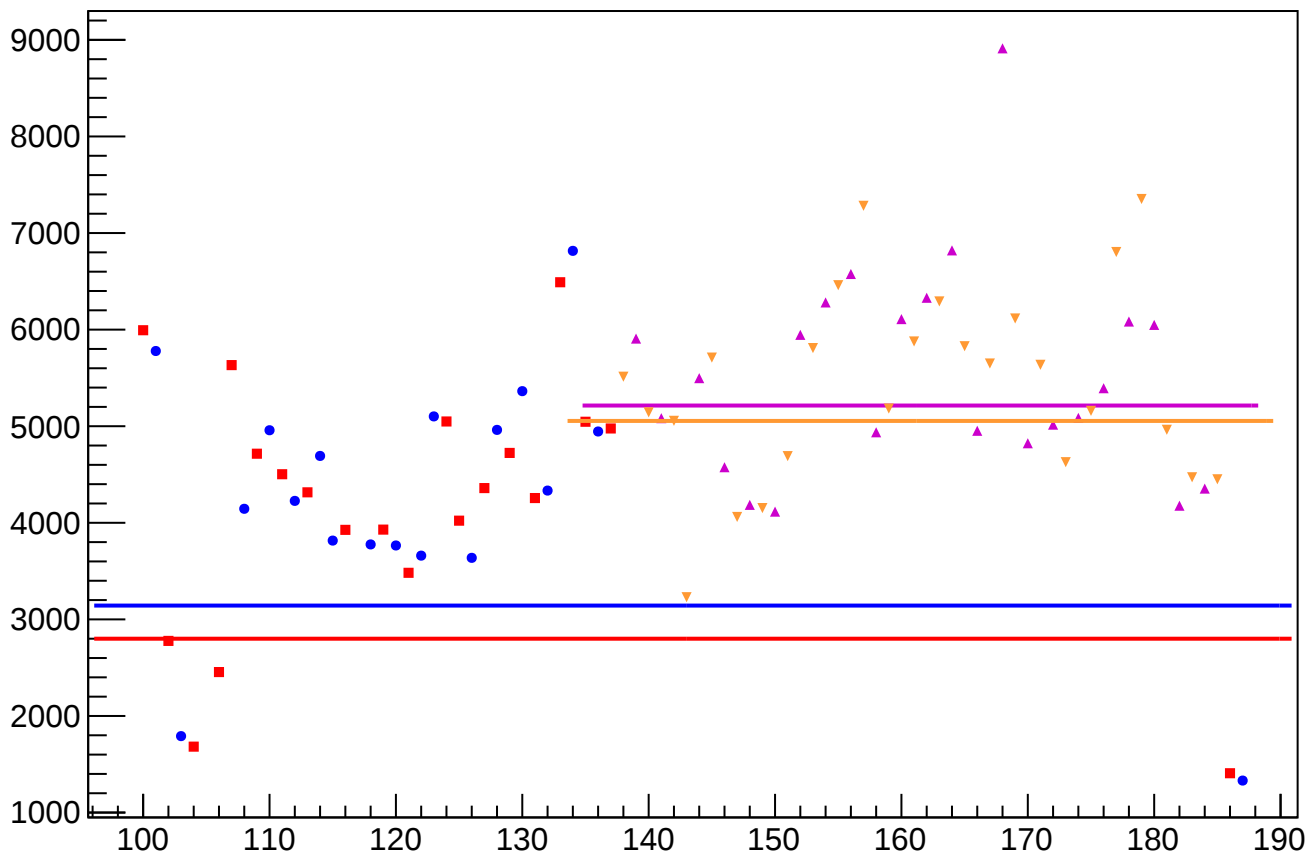
reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



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: 1404.879+/-1182.089 χ^2/NDF : 18.2/19
 Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47
 Right: 1538.531+/-886.412 χ^2/NDF : 35.6/37
 In: 2490.278+/-921.731 χ^2/NDF : 32.0/40
 Out: 1385.383+/-844.282 χ^2/NDF : 46.2/44
 All: 1889.468+/-622.581 χ^2/NDF : 79.0/85

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: 2799.975+/-0.830 χ^2/NDF : 2935835.3/19

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

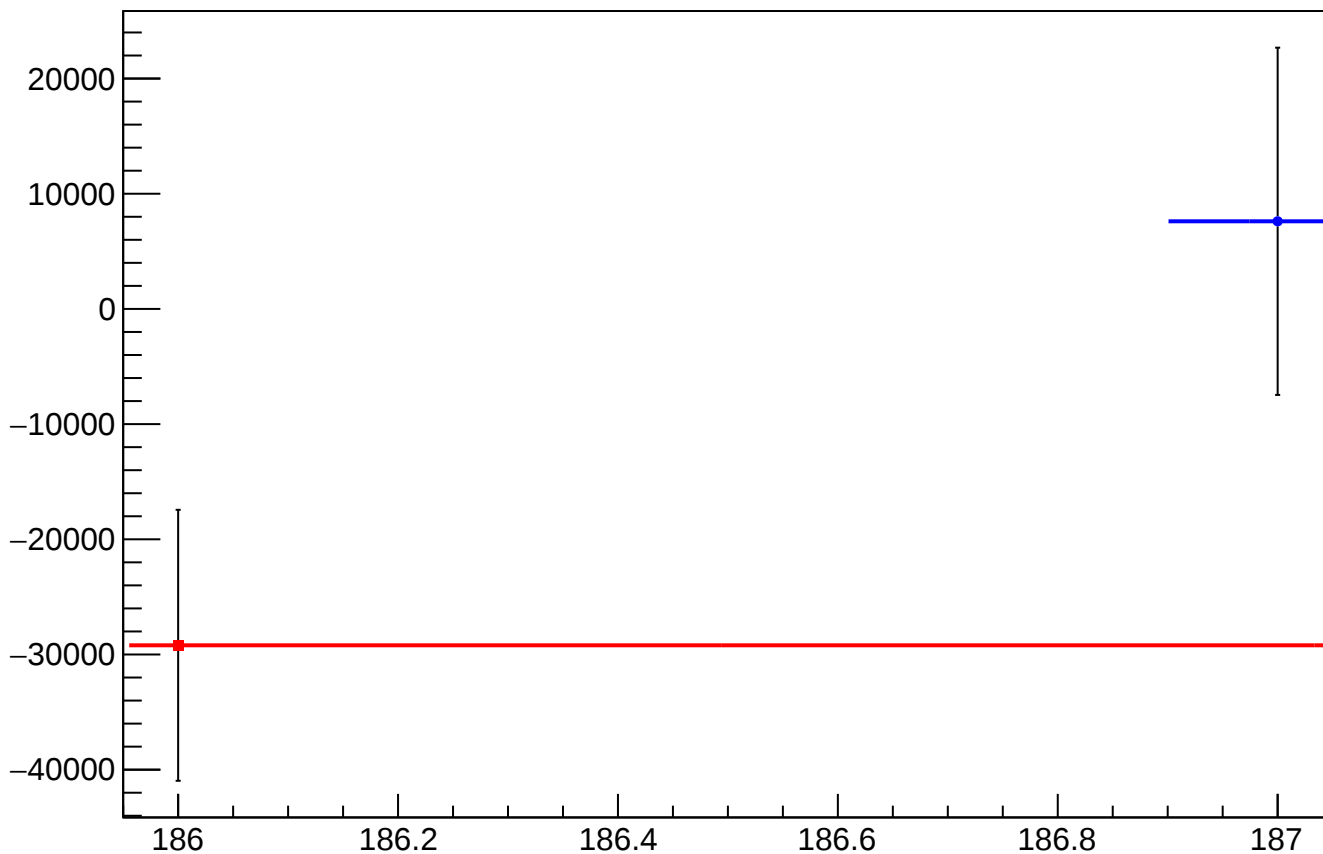
Right: 2948.986+/-0.624 χ^2/NDF : 5437272.1/37

In: 4233.898+/-0.652 χ^2/NDF : 5997095.7/40

Out: 3896.931+/-0.595 χ^2/NDF : 7961160.3/44

All: 4050.090+/-0.439 χ^2/NDF : 14104063.8/86

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: -29202.265+/-11762.699 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

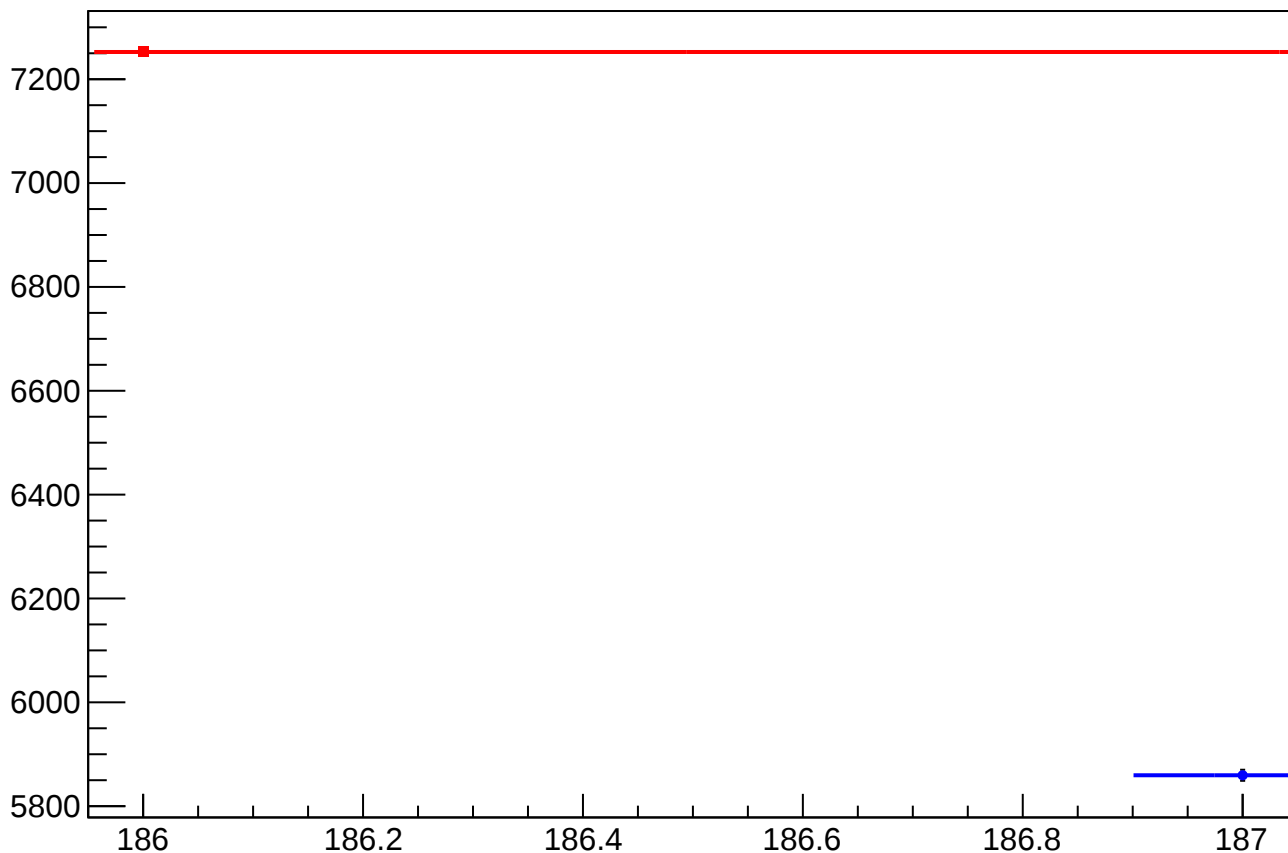
Right: -15270.033+/-9273.213 χ^2/NDF : 3.7/1

In: 7607.549+/-15073.069 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -15270.033+/-9273.213 χ^2/NDF : 3.7/1

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: 7252.462+/-8.317 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

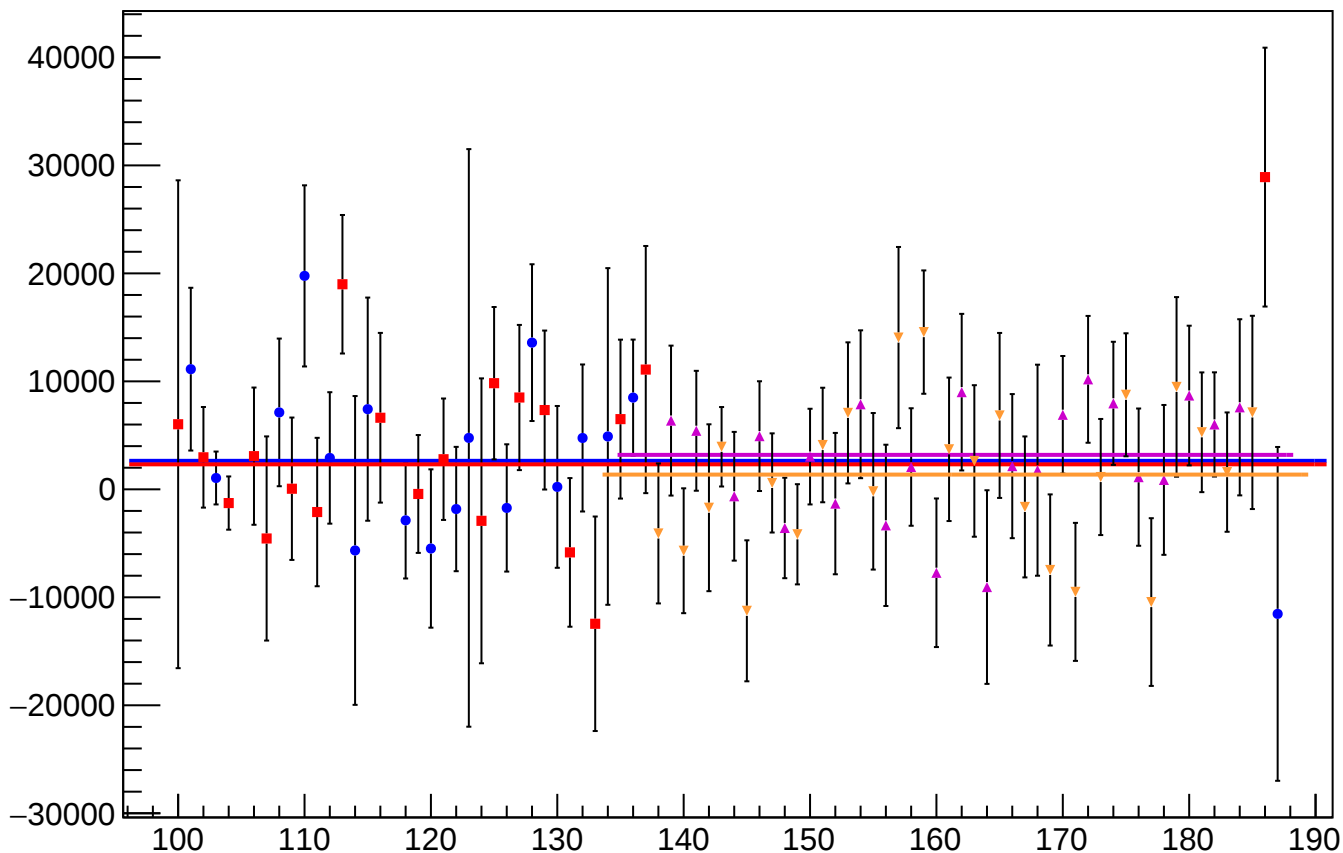
Right: 6725.244+/-6.557 χ^2/NDF : 10615.5/1

In: 5859.521+/-10.658 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 6725.244+/-6.557 χ^2/NDF : 10615.5/1

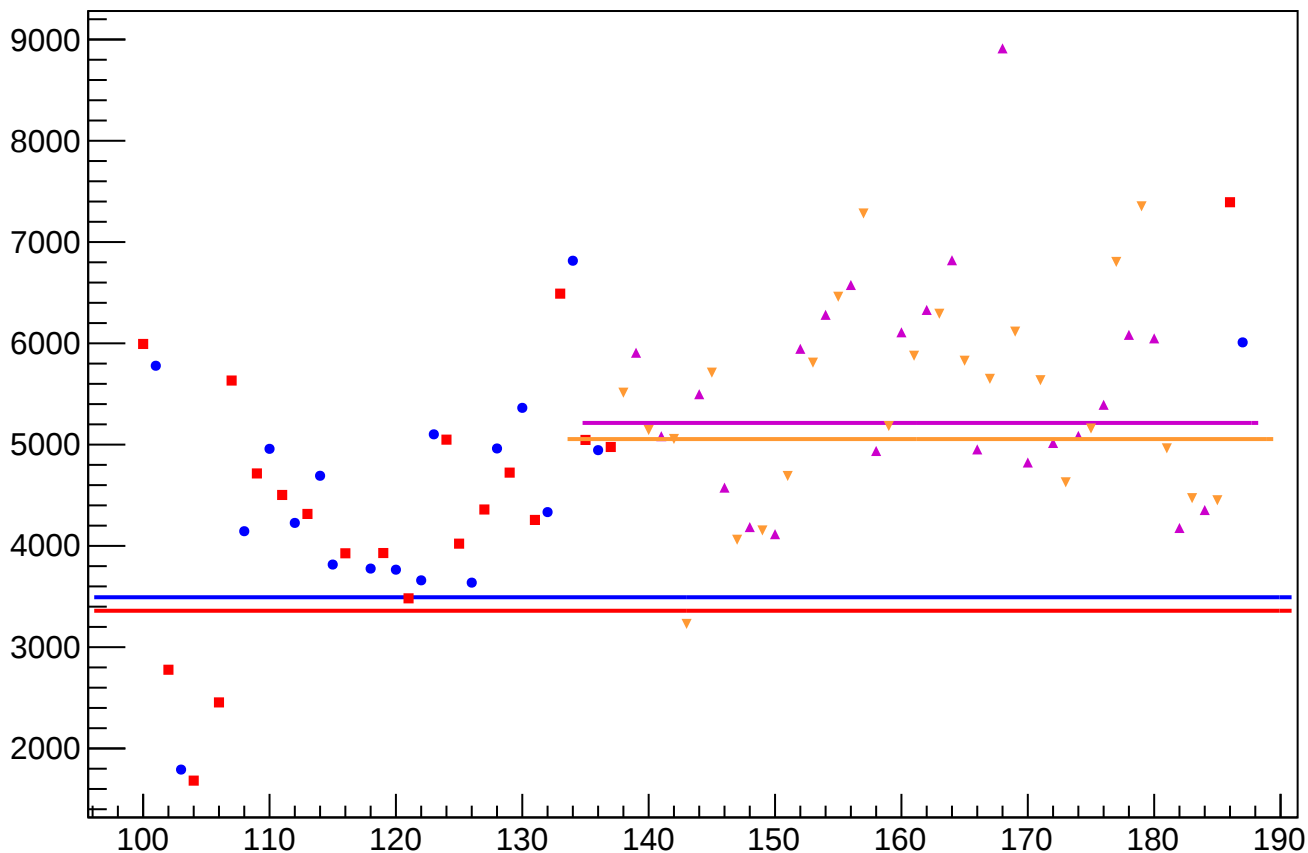
asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



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: 2314.340 $\pm$ 1374.797 χ^2 /NDF: 22.6/19
 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: 2468.173 $\pm$ 997.503 χ^2 /NDF: 37.4/37
 In: 2951.449 $\pm$ 955.240 χ^2 /NDF:28.9/40
 Out: 1777.993 $\pm$ 906.723 χ^2 /NDF:50.8/44
 All: 2334.165 $\pm$ 657.633 χ^2 /NDF: 80.5/85

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3492.972+/-1.025 χ^2/NDF : 1819362.9/17

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 3359.607+/-0.963 χ^2/NDF : 2141057.7/19

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

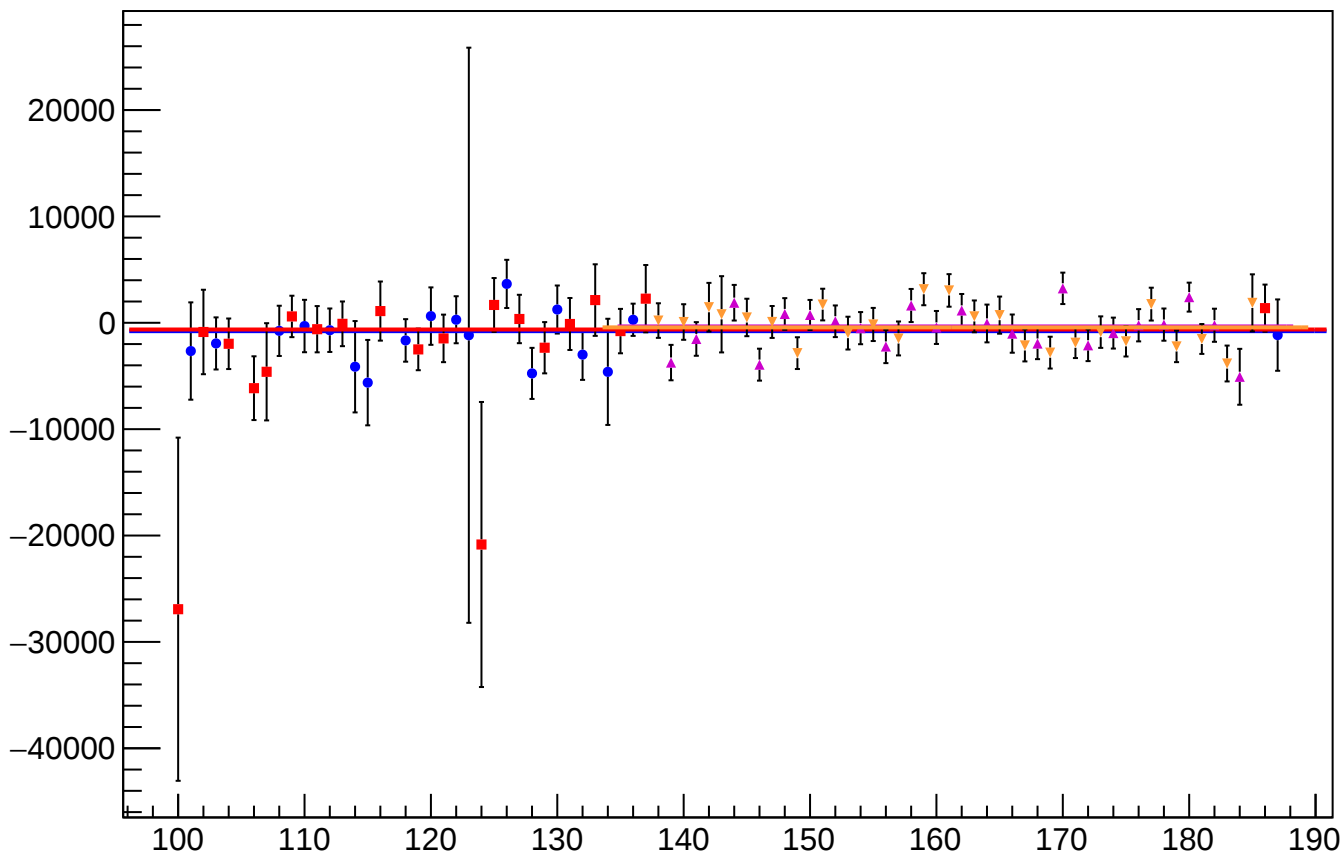
Right: 3422.161+/-0.702 χ^2/NDF : 3969410.2/37

In: 4466.642+/-0.675 χ^2/NDF : 4467098.4/40

Out: 4309.788+/-0.639 χ^2/NDF : 5313886.1/44

All: 4383.821+/-0.464 χ^2/NDF : 9809458.8/85

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -786.784+/-595.958 χ^2/NDF : 12.5/17

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -630.739+/-576.109 χ^2/NDF : 15.2/19

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

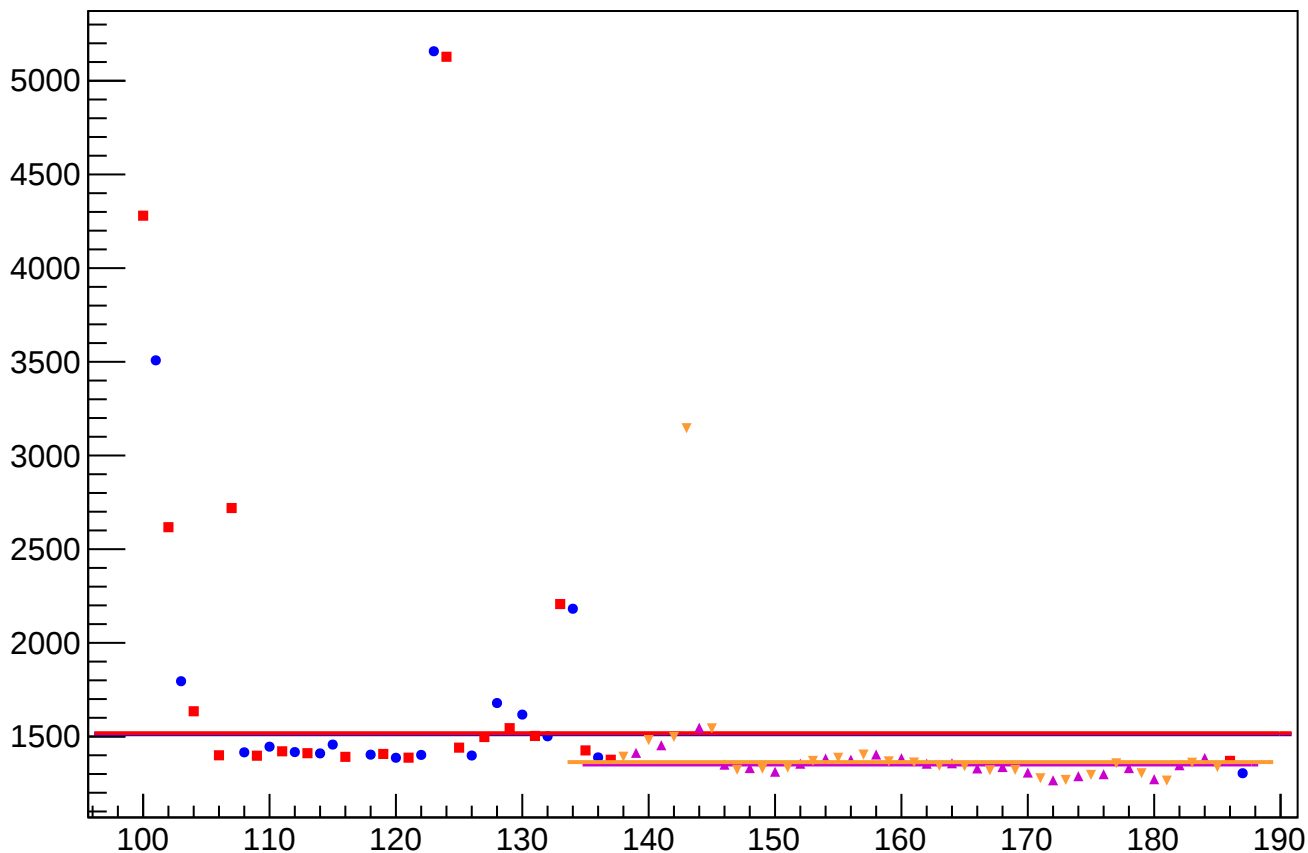
Right: -706.119+/-414.210 χ^2/NDF : 27.8/37

In: -444.990+/-284.902 χ^2/NDF :46.7/40

Out: -478.762+/-280.103 χ^2/NDF :48.4/44

All: -462.163+/-199.738 χ^2/NDF : 95.1/85

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1512.385 ± 0.421 $\chi^2/\text{NDF}: 545634.7/17$

Left Out: 1363.561 ± 0.227 $\chi^2/\text{NDF}: 575226.6/24$

Right Out: 1517.705 ± 0.407 $\chi^2/\text{NDF}: 640714.0/19$

Left In: 1350.909 ± 0.229 $\chi^2/\text{NDF}: 67144.5/22$

Left: 1357.310 ± 0.161 $\chi^2/\text{NDF}: 643910.7/47$

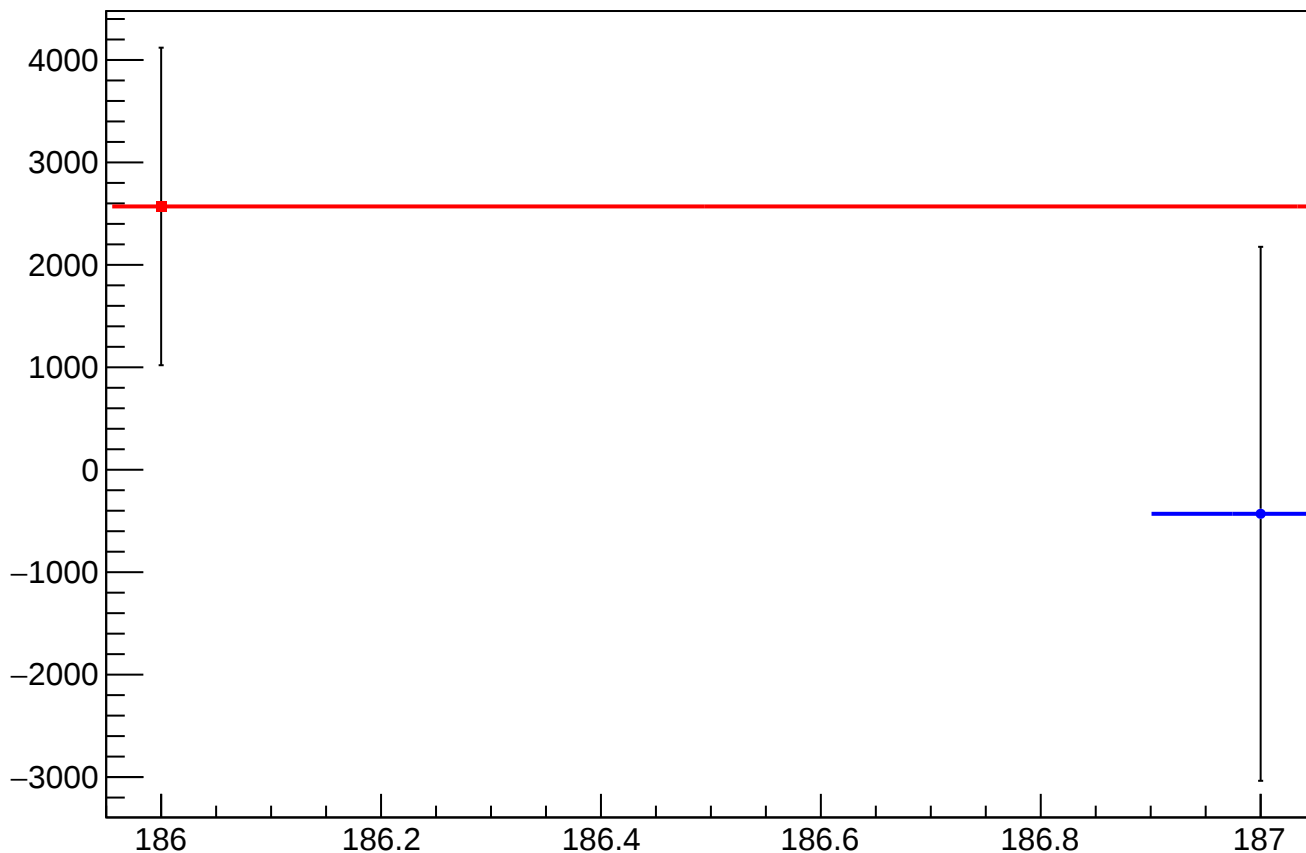
Right: 1515.135 ± 0.293 $\chi^2/\text{NDF}: 1186431.0/37$

In: 1387.813 ± 0.201 $\chi^2/\text{NDF}: 726054.1/40$

Out: 1399.999 ± 0.198 $\chi^2/\text{NDF}: 1325272.5/44$

All: 1394.010 ± 0.141 $\chi^2/\text{NDF}: 2053187.4/85$

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: 2570.258+/-1549.880 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

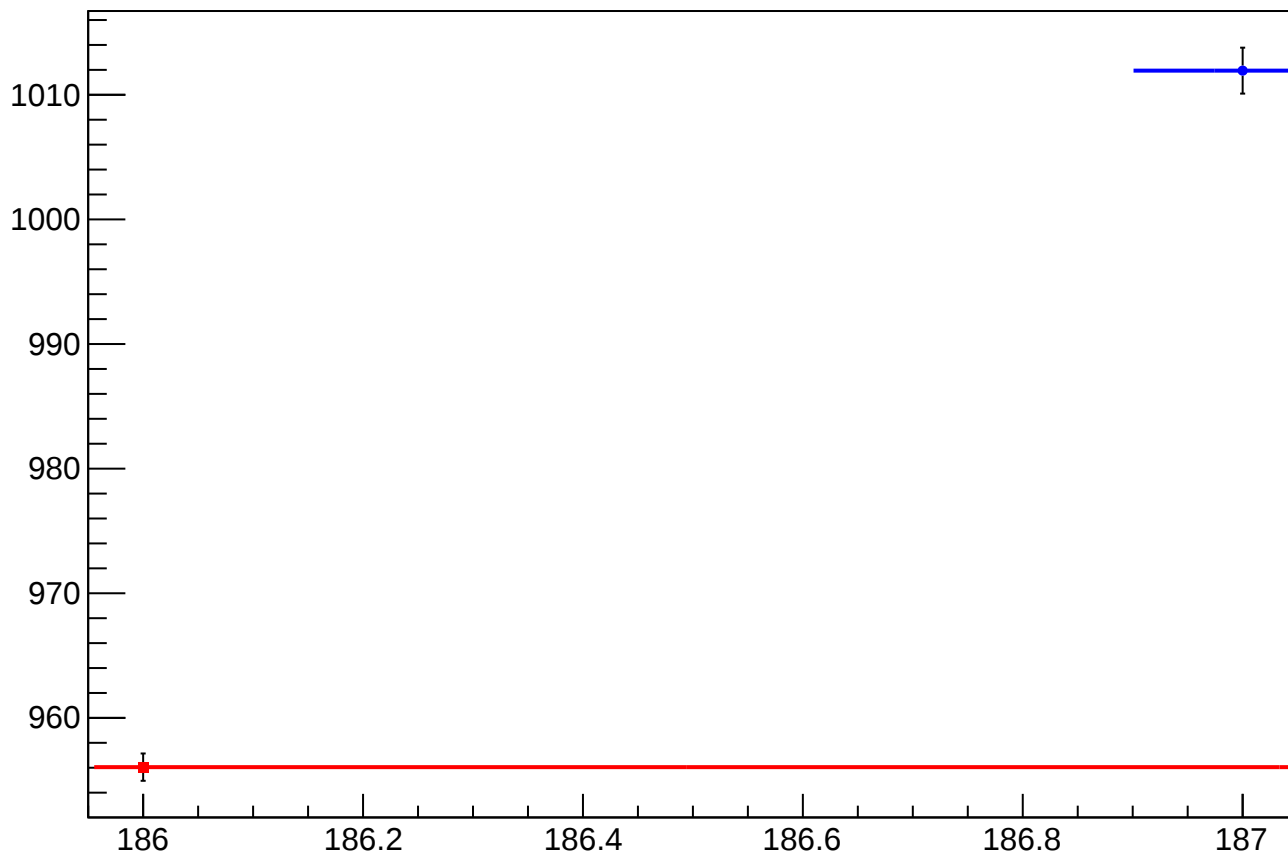
Right: 1786.410+/-1332.128 χ^2/NDF : 1.0/1

In: -430.080+/-2606.243 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1786.410+/-1332.128 χ^2/NDF : 1.0/1

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: 956.048 $\pm$ 1.096 χ^2 /NDF: 0.0/0

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

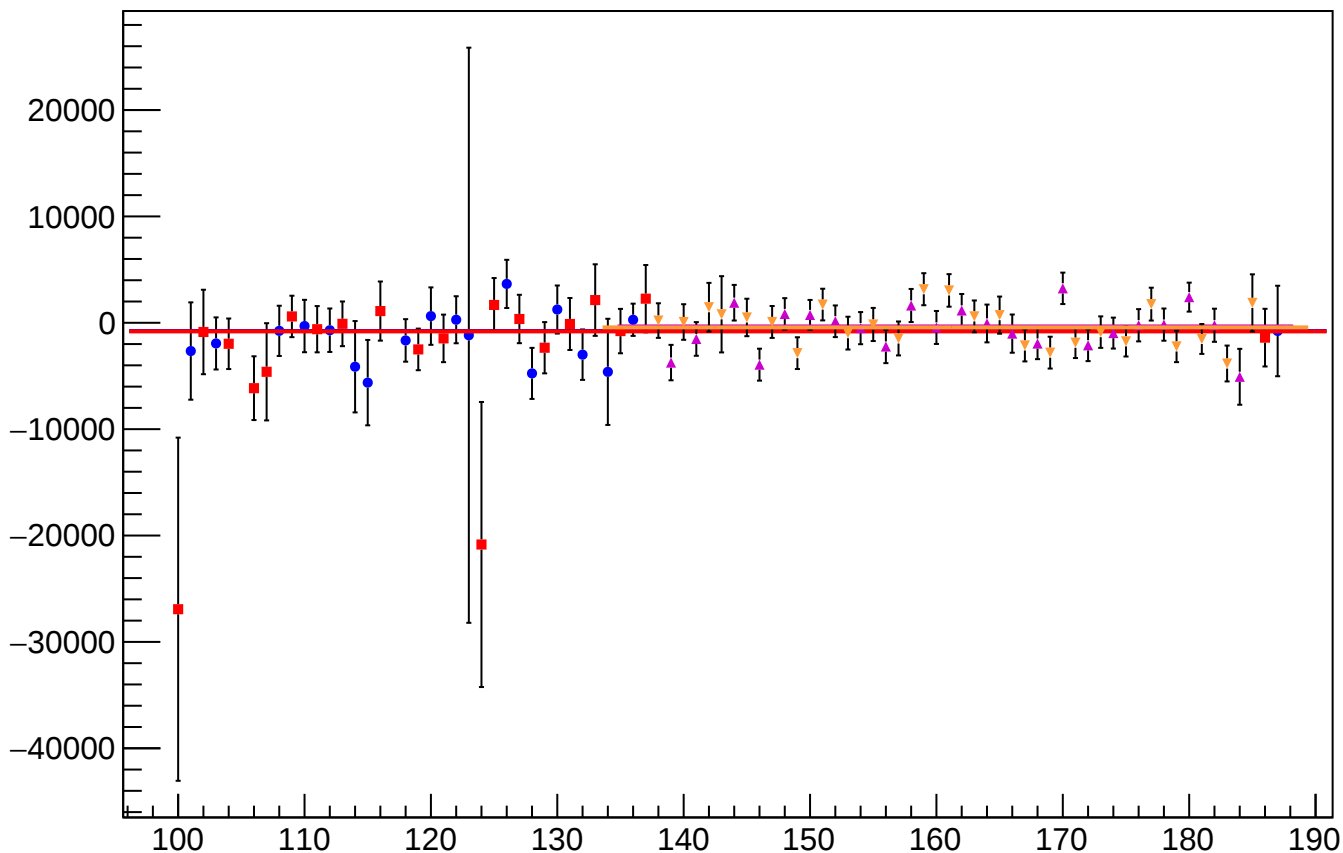
Right: 970.650 $\pm$ 0.942 χ^2 /NDF: 679.5/1

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: 970.650 $\pm$ 0.942 χ^2 /NDF: 679.5/1

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: -805.343+/-582.727 χ^2/NDF : 14.4/19

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

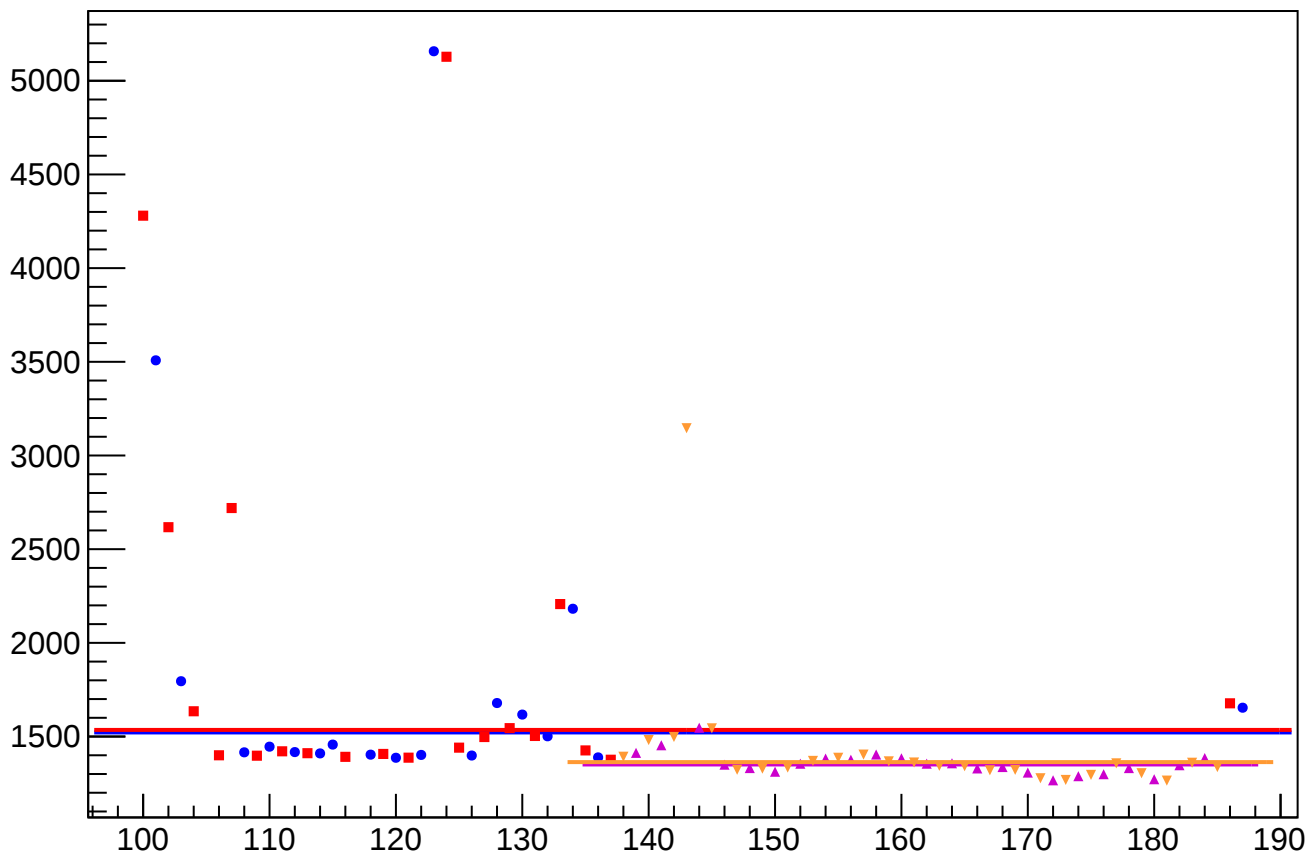
Right: -790.426+/-417.871 χ^2/NDF : 26.9/37

In: -441.304+/-285.292 χ^2/NDF : 46.7/40

Out: -518.505+/-280.854 χ^2/NDF : 47.8/44

All: -480.510+/-200.144 χ^2/NDF : 94.5/85

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1521.847+/-0.424 χ^2/NDF : 539645.8/17

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1535.315+/-0.412 χ^2/NDF : 636921.3/19

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

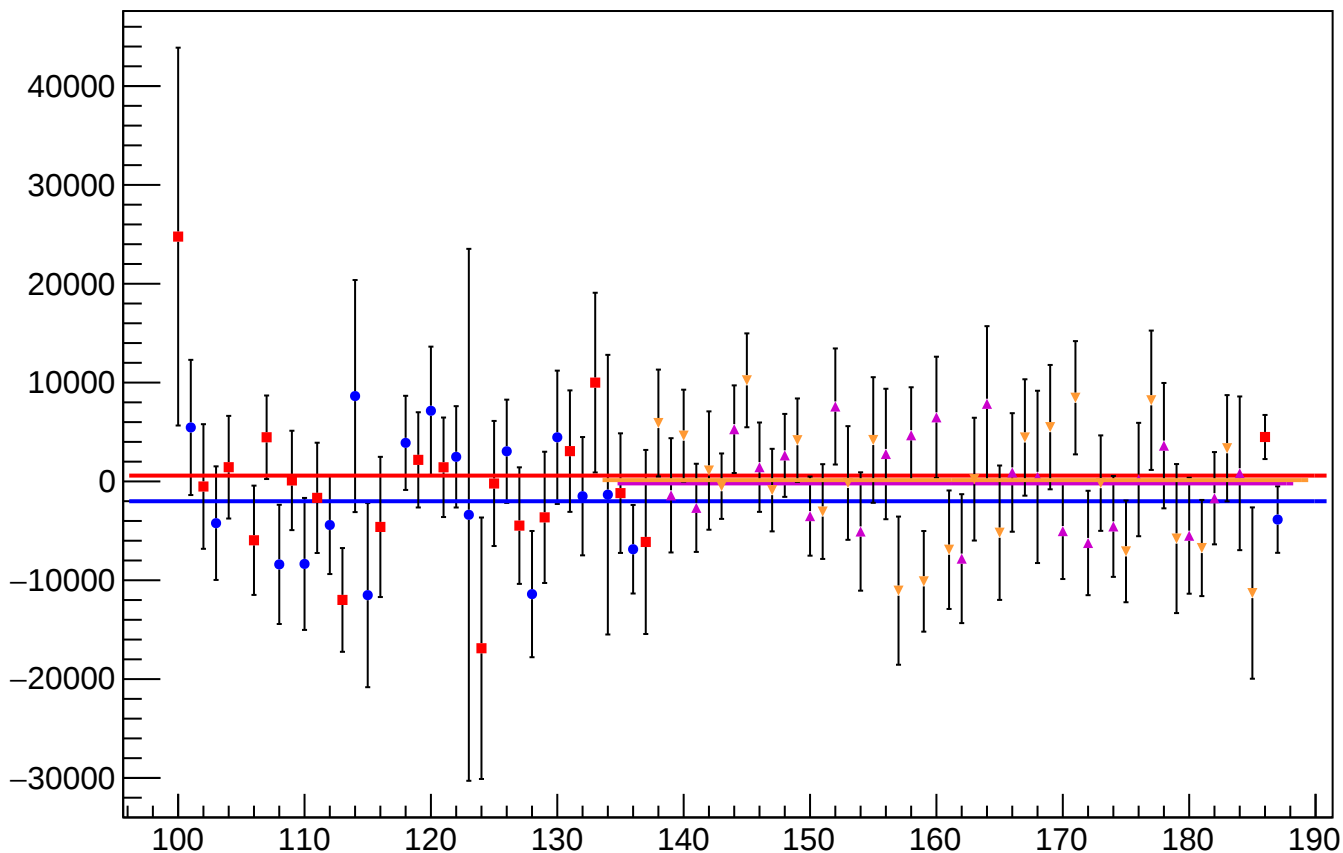
Right: 1528.773+/-0.295 χ^2/NDF : 1177086.1/37

In: 1389.614+/-0.202 χ^2/NDF : 732555.6/40

Out: 1403.458+/-0.199 χ^2/NDF : 1345535.5/44

All: 1396.645+/-0.142 χ^2/NDF : 2080482.9/85

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: 589.526 $\pm$ 1174.813 χ^2 /NDF: 18.3/19

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

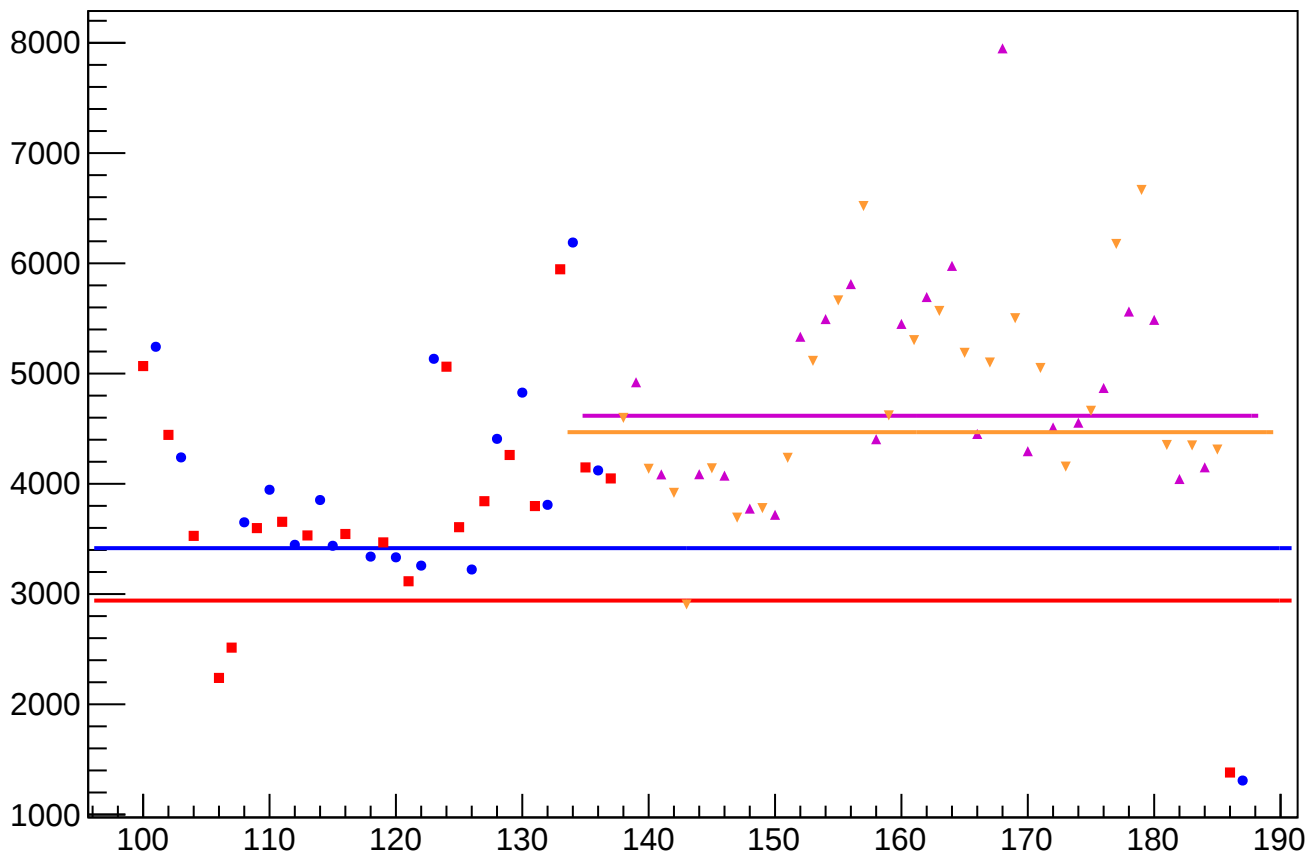
Right: -497.232 $\pm$ 895.503 χ^2 /NDF: 35.6/37

In: -917.153 $\pm$ 872.143 χ^2 /NDF: 31.0/40

Out: 338.579 $\pm$ 789.263 χ^2 /NDF: 46.5/44

All: -226.799 $\pm$ 585.206 χ^2 /NDF: 78.7/85

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: 2940.927+/-0.825 χ^2/NDF : 1901456.6/19

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

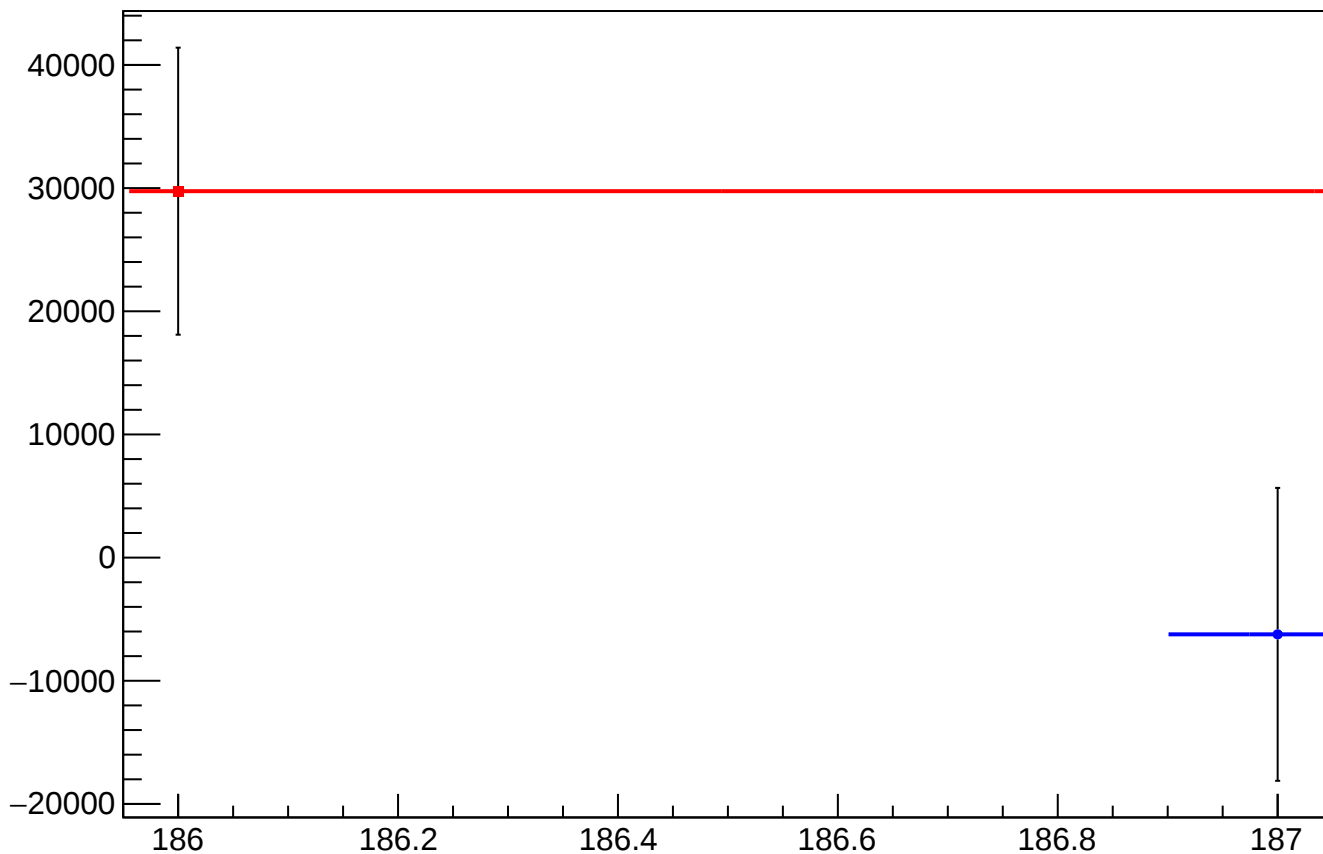
Right: 3138.628+/-0.631 χ^2/NDF : 3310837.9/37

In: 4140.068+/-0.617 χ^2/NDF : 3178941.7/40

Out: 3774.023+/-0.556 χ^2/NDF : 5150871.7/44

All: 3938.287+/-0.413 χ^2/NDF : 8524026.7/85

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -6230.200 $\pm$ 11890.741 χ^2 /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 29751.201 $\pm$ 11651.754 χ^2 /NDF: 0.0/0

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

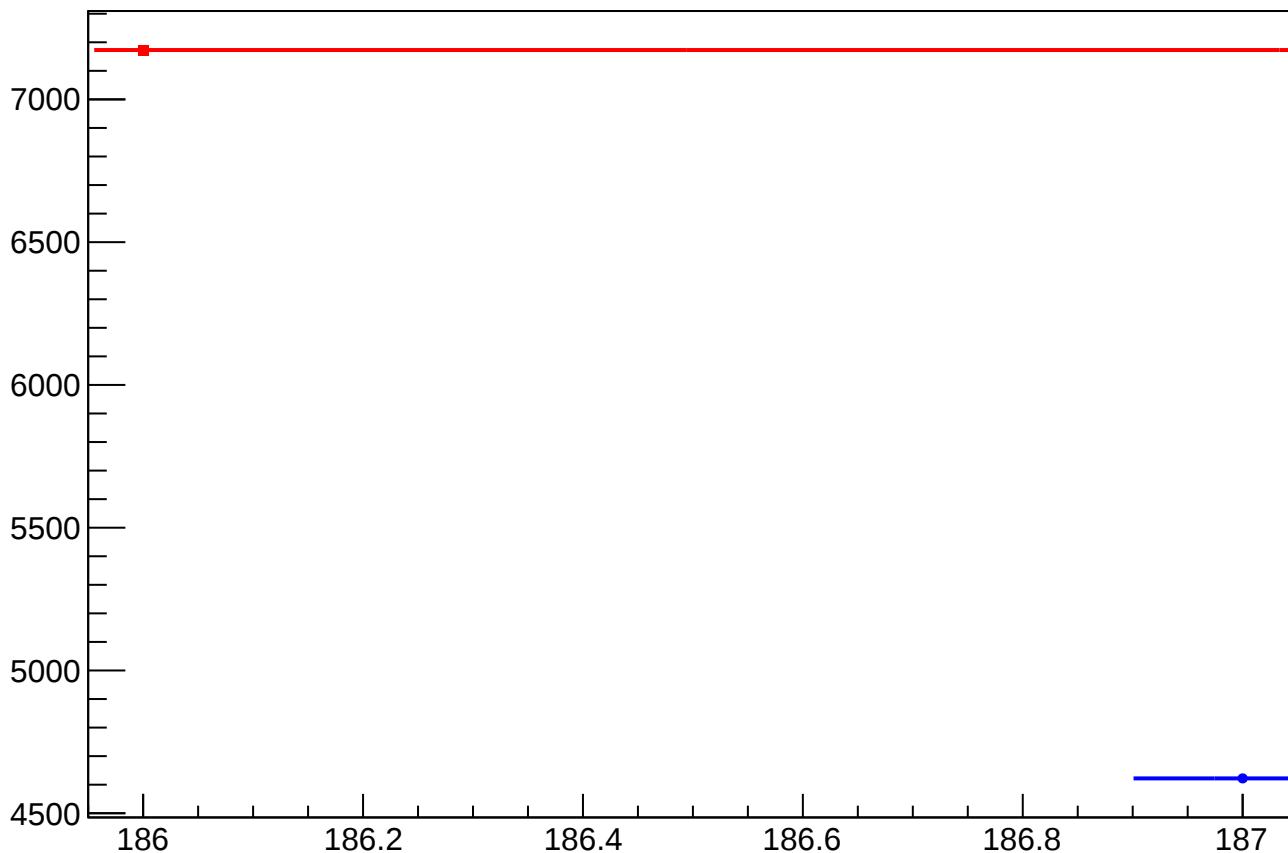
Right: 12125.722 $\pm$ 8322.242 χ^2 /NDF: 4.7/1

In: -6230.200 $\pm$ 11890.741 χ^2 /NDF:0.0/0

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 12125.722 $\pm$ 8322.242 χ^2 /NDF: 4.7/1

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: 7172.895 $\pm$ 8.239 χ^2 /NDF: 0.0/0

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

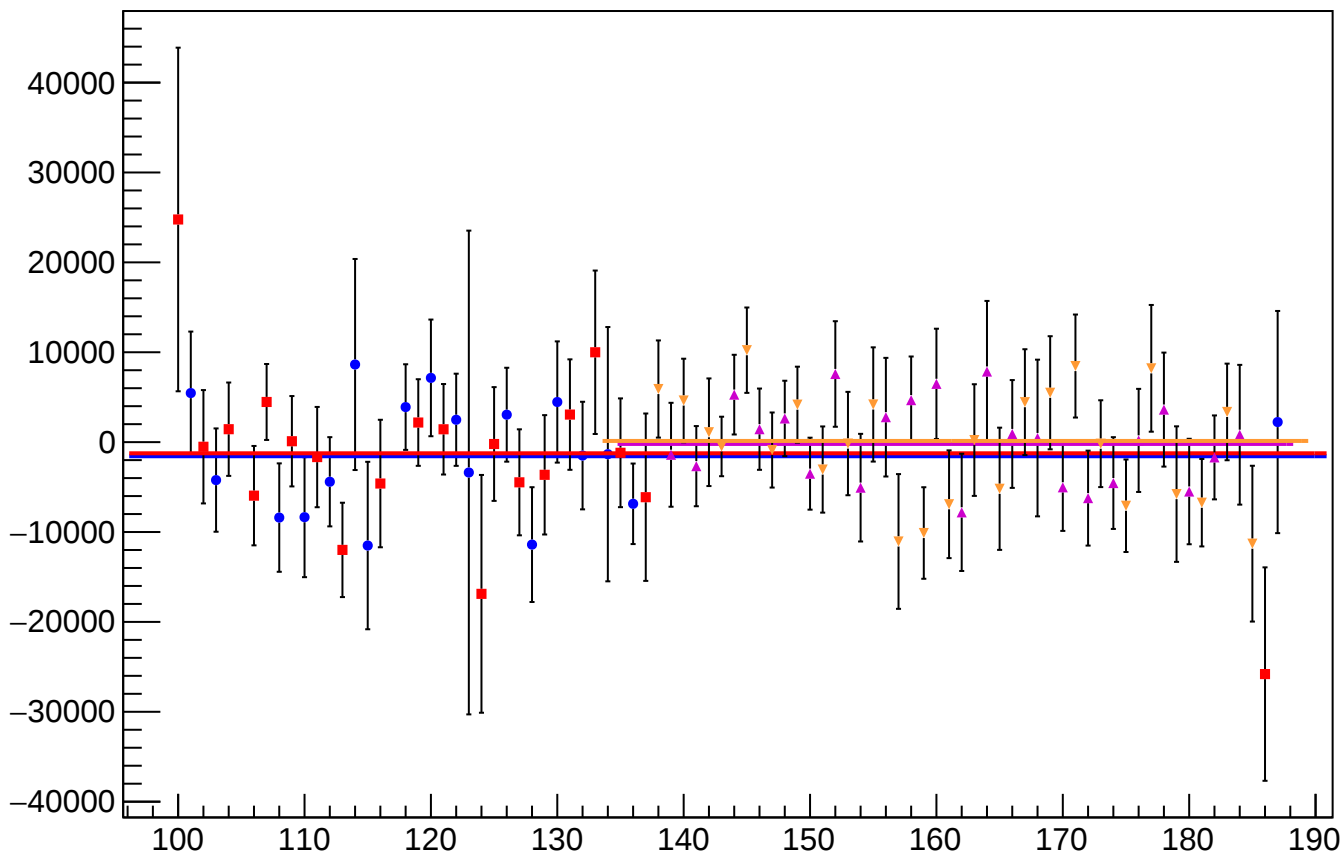
Right: 5923.362 $\pm$ 5.885 χ^2 /NDF: 46954.8/1

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: 5923.362 $\pm$ 5.885 χ^2 /NDF: 46954.8/1

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1569.608 $\pm$ 1506.362 χ^2 /NDF: 15.0/17

Left Out: 132.142 $\pm$ 1065.543 χ^2 /NDF:28.1/24

Right Out: -1240.756 $\pm$ 1372.584 χ^2 /NDF: 18.4/19

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

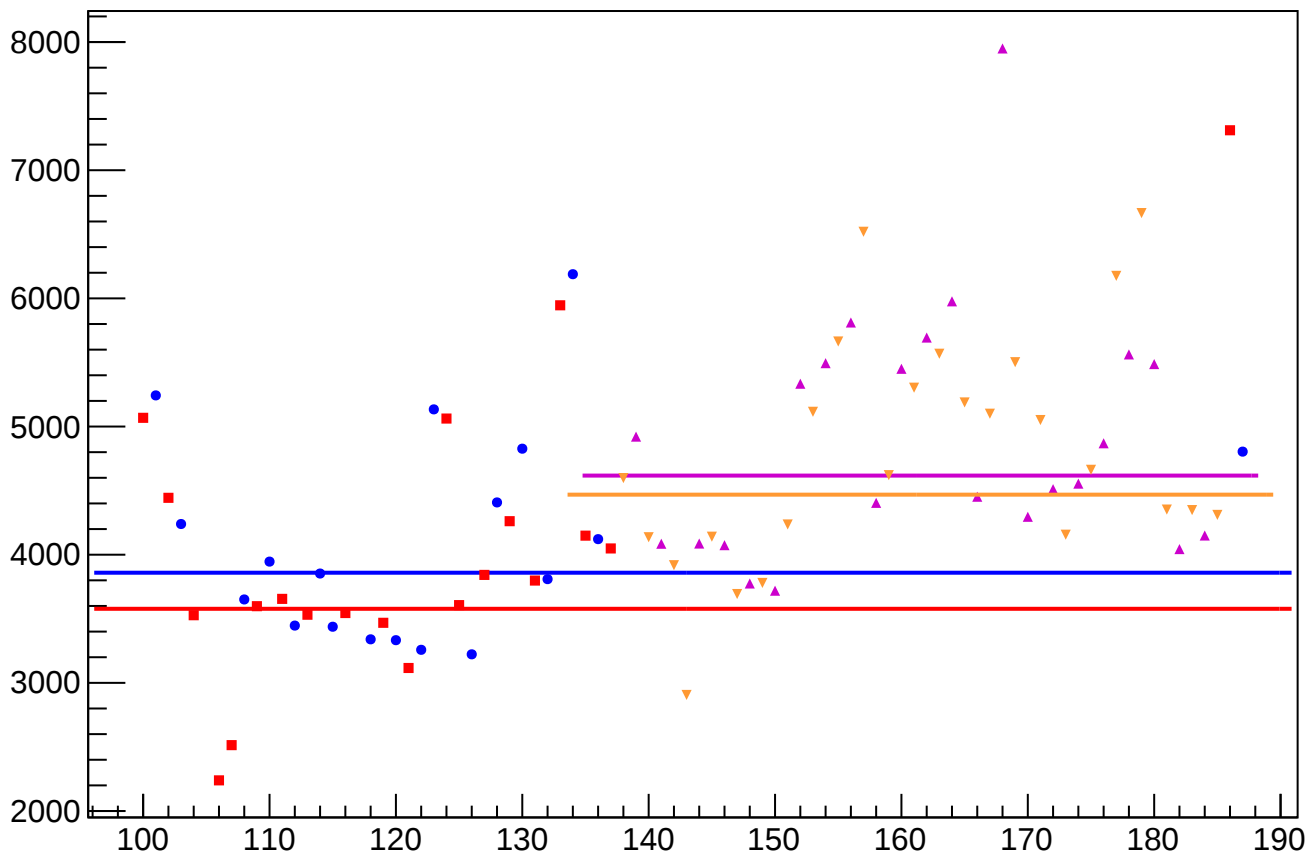
Right: -1389.934 $\pm$ 1014.569 χ^2 /NDF: 33.4/37

In: -689.668 $\pm$ 900.596 χ^2 /NDF:30.3/40

Out: -384.112 $\pm$ 841.689 χ^2 /NDF:47.1/44

All: -526.571 $\pm$ 614.935 χ^2 /NDF: 77.5/85

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: 3577.892+/-0.962 χ^2/NDF : 756749.9/19

Left In: 4617.293+/-0.794 χ^2/NDF :999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

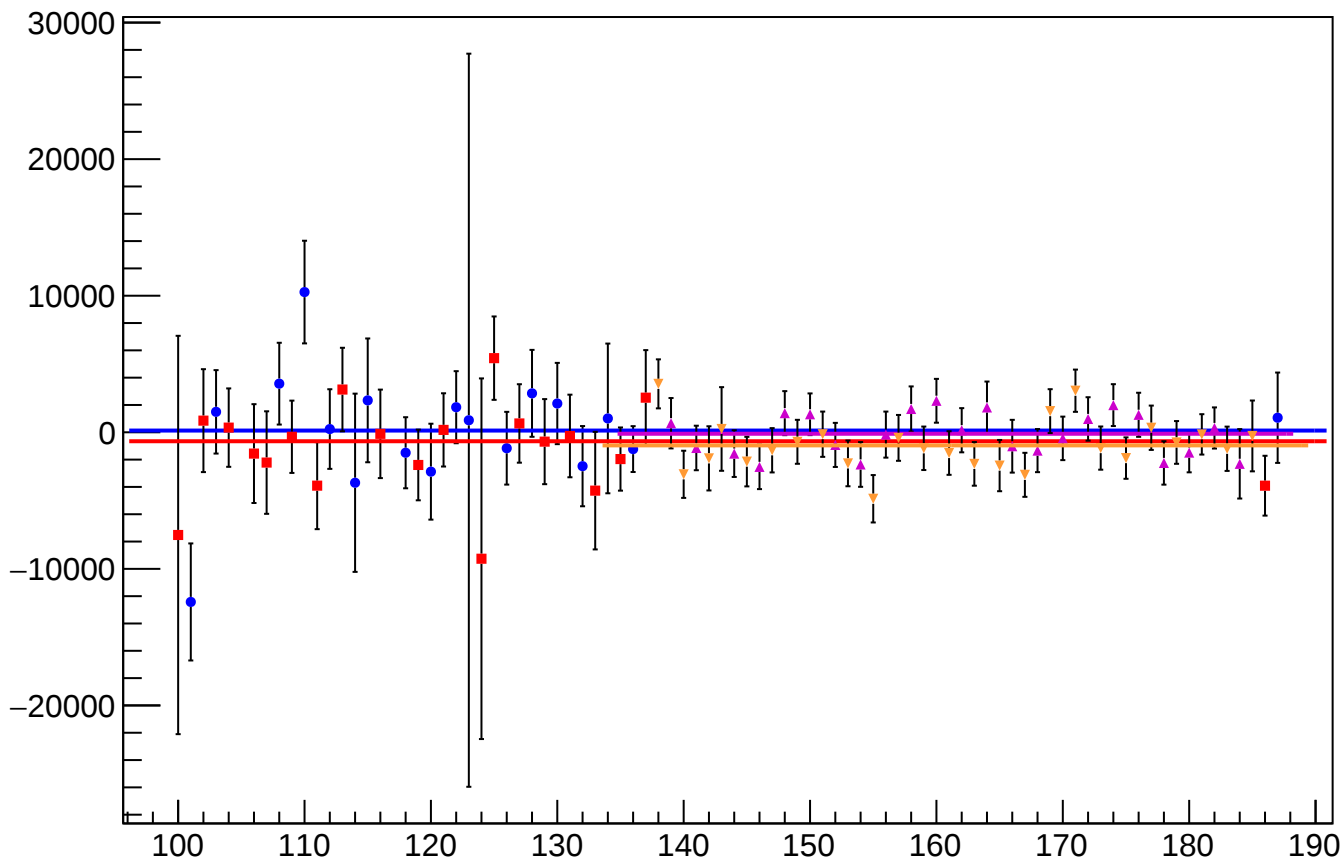
Right: 3704.350+/-0.714 χ^2/NDF : 1134045.7/37

In: 4346.396+/-0.637 χ^2/NDF :1663705.1/40

Out: 4129.824+/-0.593 χ^2/NDF :2668716.4/44

All: 4230.428+/-0.434 χ^2/NDF : 4394353.4/85

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 126.876+/-734.072 χ^2/NDF : 22.5/17

Left Out: -958.410+/-339.496 χ^2/NDF :28.5/24

Right Out: -655.228+/-697.722 χ^2/NDF : 12.6/19

Left In: -107.512+/-343.663 χ^2/NDF :19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

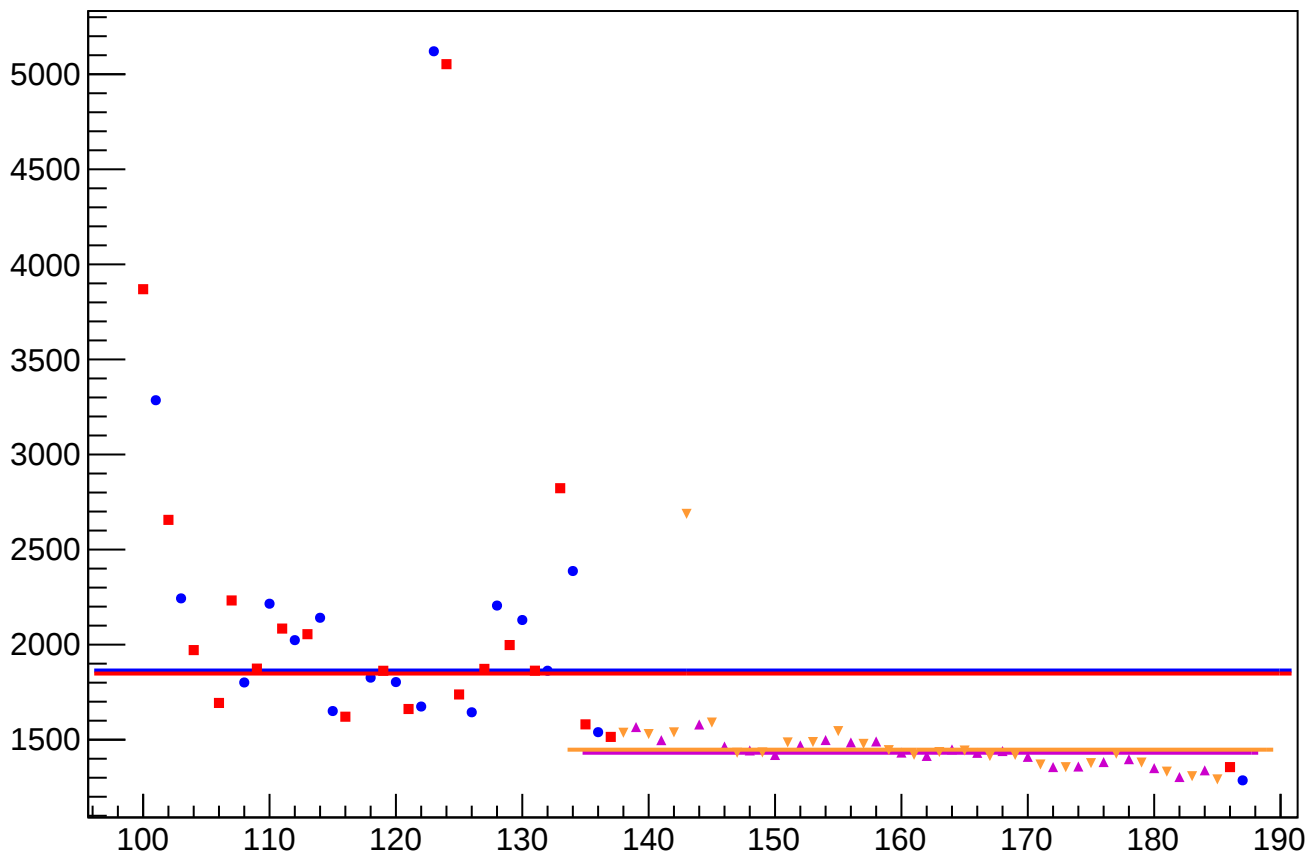
Right: -284.019+/-505.727 χ^2/NDF : 35.7/37

In: -65.376+/-311.243 χ^2/NDF :42.0/40

Out: -900.371+/-305.276 χ^2/NDF :41.3/44

All: -490.954+/-217.942 χ^2/NDF : 86.9/85

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: 1847.932 $\pm$ 0.493 χ^2 /NDF: 572501.2/19

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

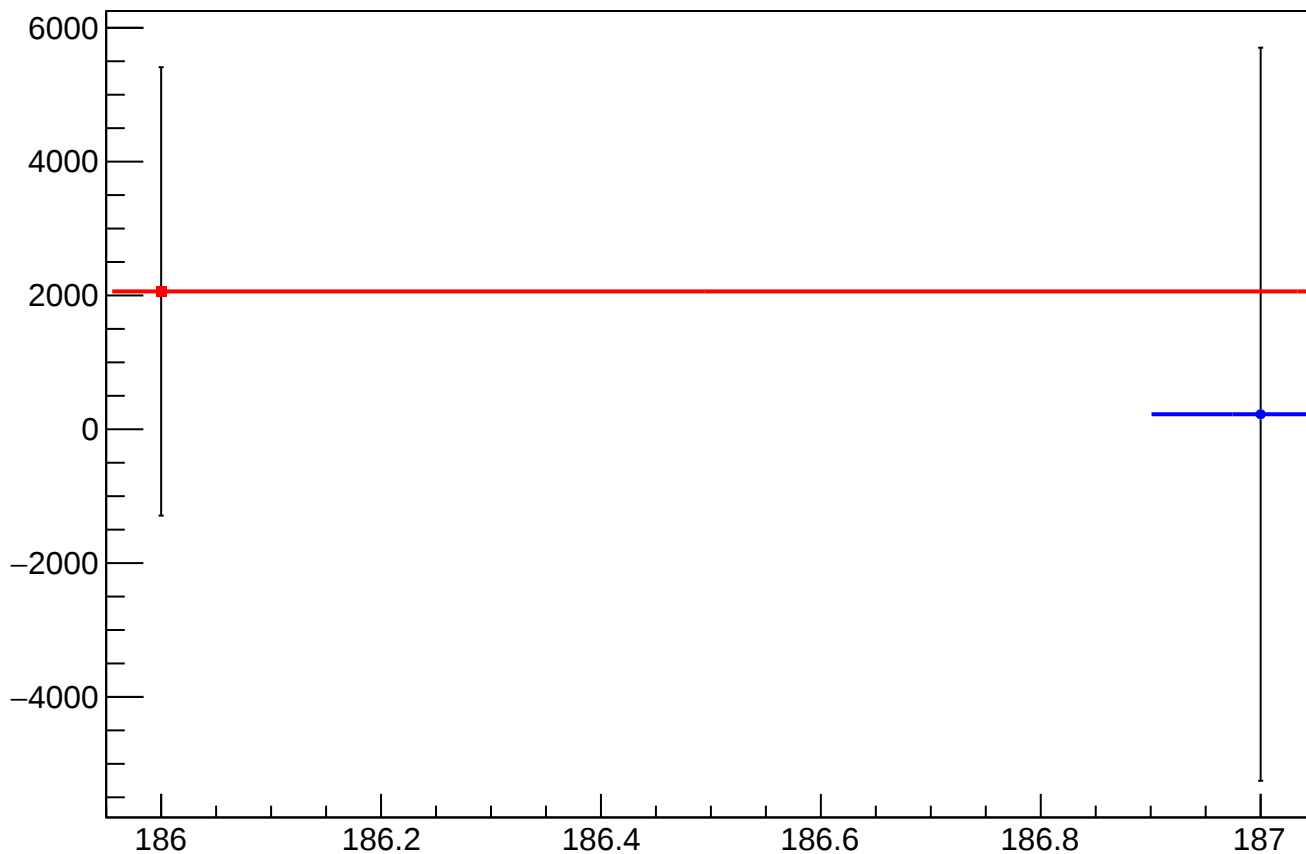
Right: 1855.499 $\pm$ 0.358 χ^2 /NDF: 1103598.5/37

In: 1509.193 $\pm$ 0.220 χ^2 /NDF: 1174979.9/40

Out: 1524.202 $\pm$ 0.216 χ^2 /NDF: 1524266.8/44

All: 1516.843 $\pm$ 0.154 χ^2 /NDF: 2701617.2/85

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: 2060.424+/-3350.994 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

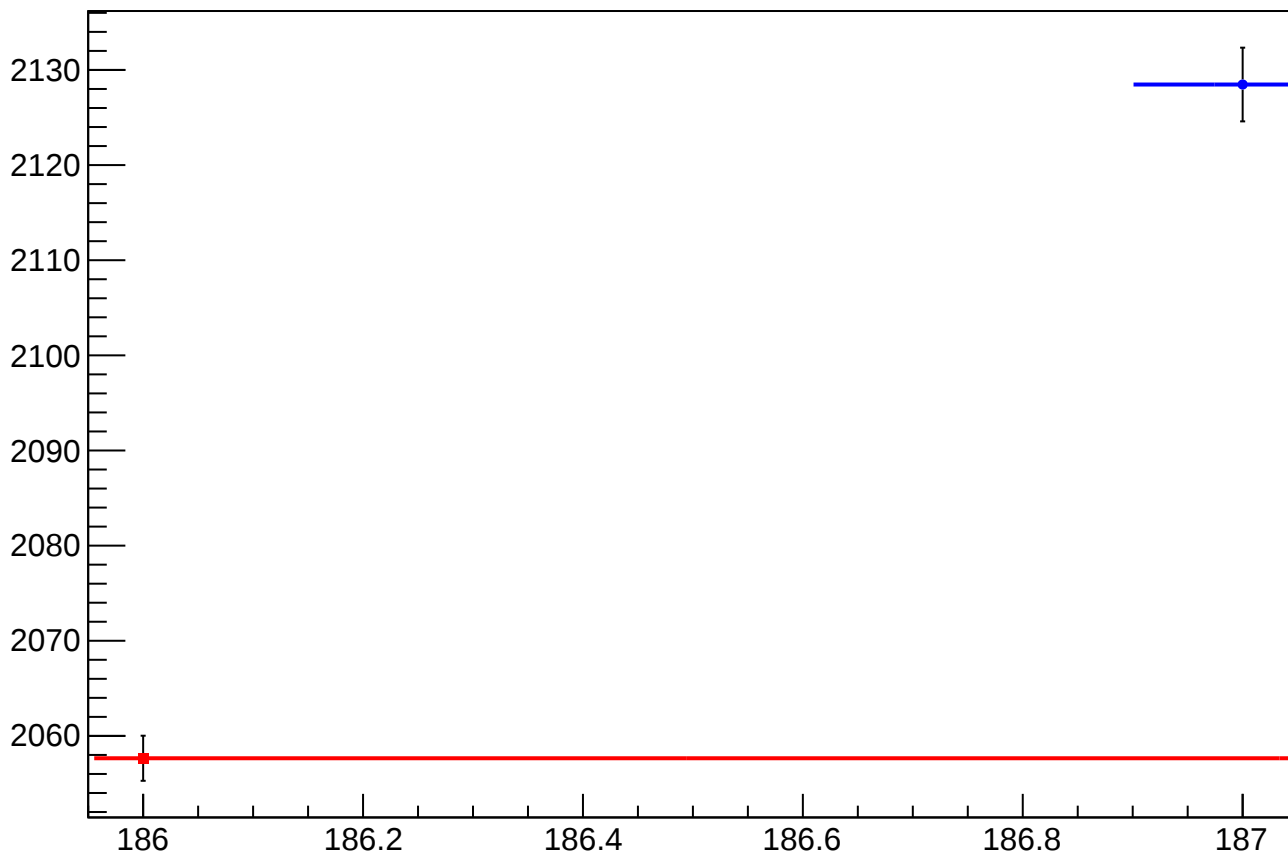
Right: 1560.609+/-2858.610 χ^2/NDF : 0.1/1

In: 224.778+/-5478.287 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1560.609+/-2858.610 χ^2/NDF : 0.1/1

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: 2057.651 $\pm$ 2.370 χ^2 /NDF: 0.0/0

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

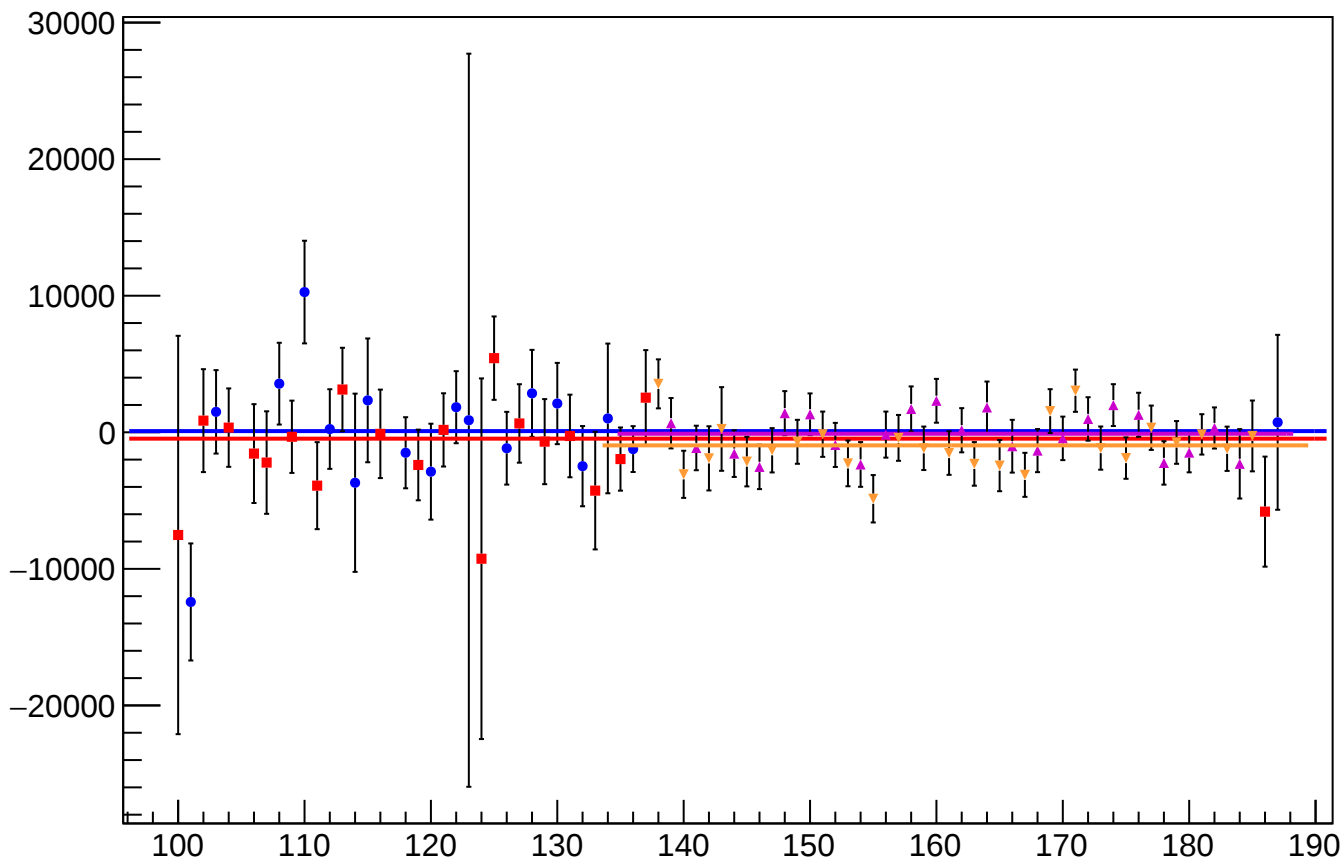
Right: 2076.933 $\pm$ 2.021 χ^2 /NDF: 243.2/1

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: 2076.933 $\pm$ 2.021 χ^2 /NDF: 243.2/1

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 87.117+/-747.695 χ^2/NDF : 22.4/17

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -466.082+/-724.074 χ^2/NDF : 12.0/19

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

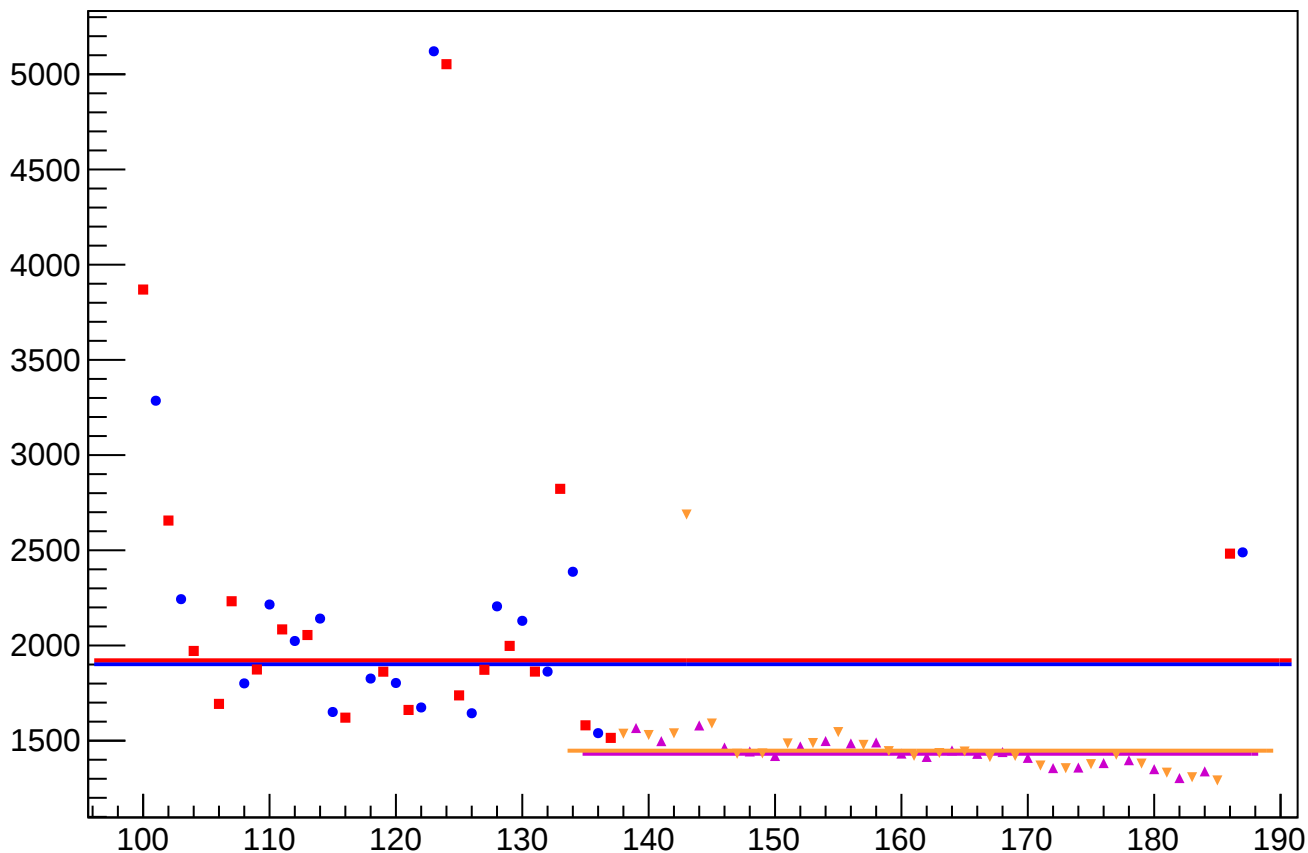
Right: -198.359+/-520.148 χ^2/NDF : 34.6/37

In: -73.566+/-312.258 χ^2/NDF : 41.9/40

Out: -869.683+/-307.386 χ^2/NDF : 40.9/44

All: -477.884+/-219.057 χ^2/NDF : 86.1/85

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: 1922.172 $\pm$ 0.512 χ^2 /NDF: 500187.4/19

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

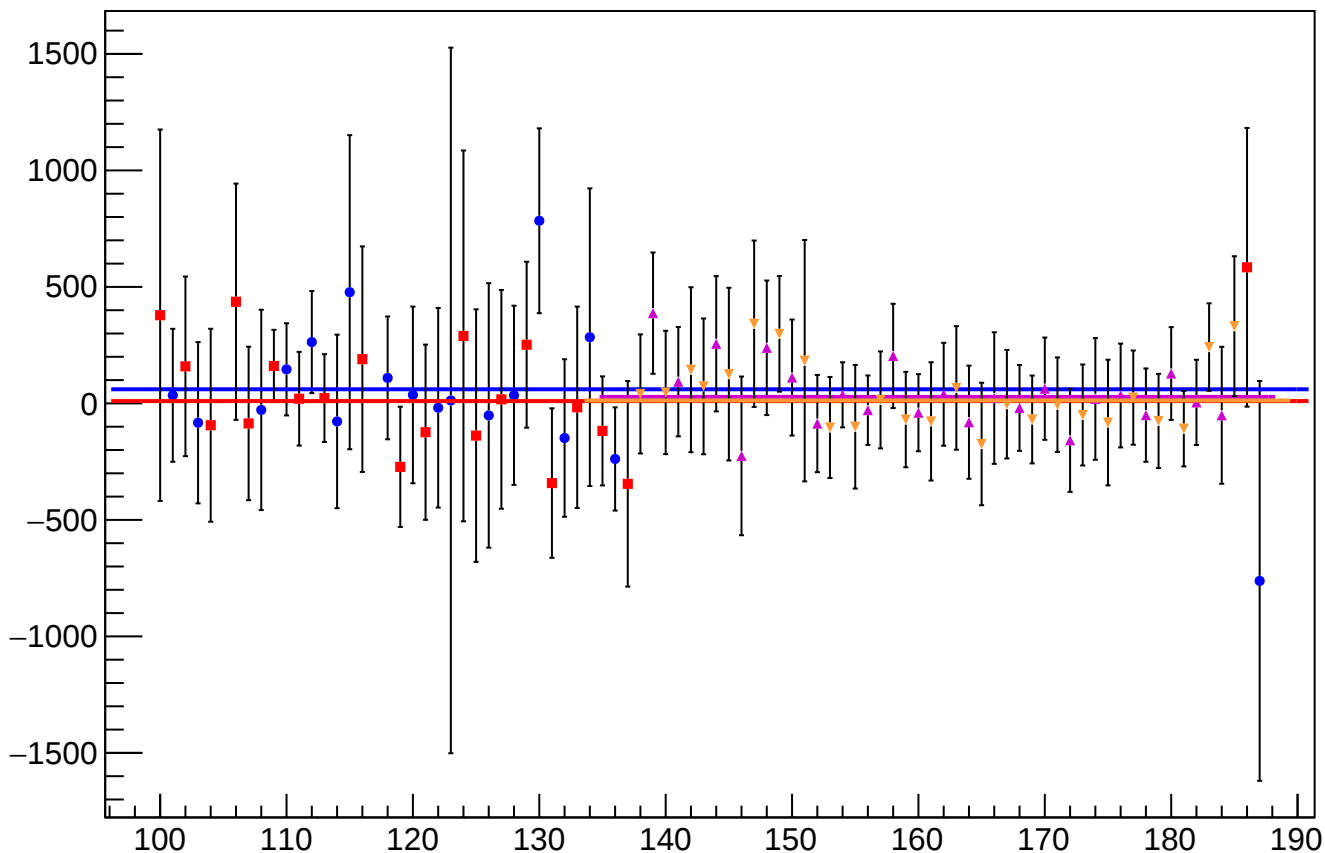
Right: 1912.367 $\pm$ 0.368 χ^2 /NDF: 984438.2/37

In: 1513.510 $\pm$ 0.221 χ^2 /NDF: 1212335.4/40

Out: 1533.092 $\pm$ 0.217 χ^2 /NDF: 1623906.7/44

All: 1523.455 $\pm$ 0.155 χ^2 /NDF: 2840236.5/85

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 60.627 $\pm$ 79.494 χ^2 /NDF: 8.5/17

Left Out: 12.618 $\pm$ 47.486 χ^2 /NDF: 7.7/24

Right Out: 9.928 $\pm$ 69.545 χ^2 /NDF: 7.4/19

Left In: 27.921 $\pm$ 44.523 χ^2 /NDF: 6.5/22

Left: 20.762 $\pm$ 32.480 χ^2 /NDF: 14.3/47

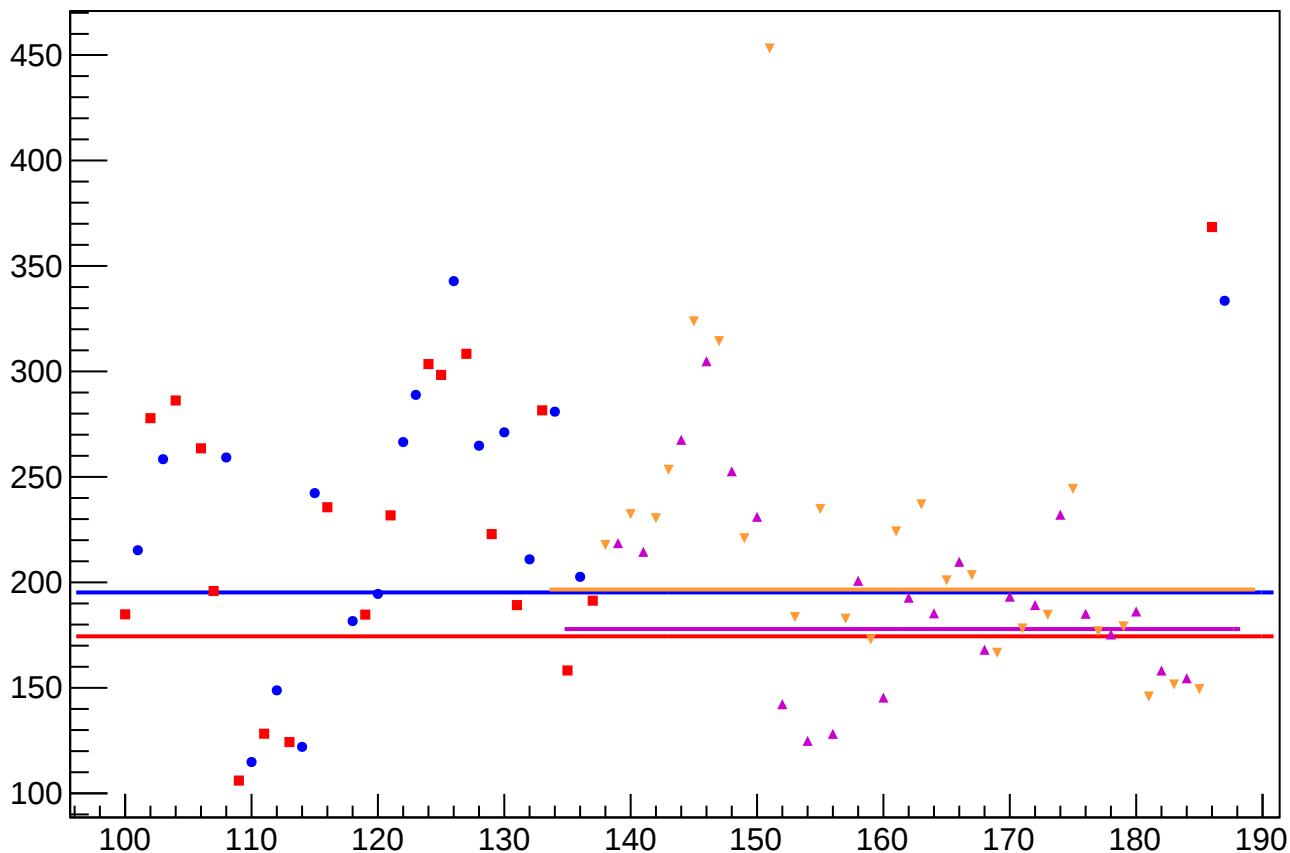
Right: 31.909 $\pm$ 52.342 χ^2 /NDF: 16.1/37

In: 35.731 $\pm$ 38.846 χ^2 /NDF: 15.1/40

Out: 11.763 $\pm$ 39.216 χ^2 /NDF: 15.0/44

All: 23.861 $\pm$ 27.598 χ^2 /NDF: 30.4/85

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.229+/-0.056 χ^2/NDF : 1064335.2/17

Left Out: 196.620+/-0.034 χ^2/NDF : 1793507.9/24

Right Out: 174.419+/-0.049 χ^2/NDF : 1784905.9/19

Left In: 177.878+/-0.031 χ^2/NDF : 1644086.7/22

Left: 186.646+/-0.023 χ^2/NDF : 3603390.3/47

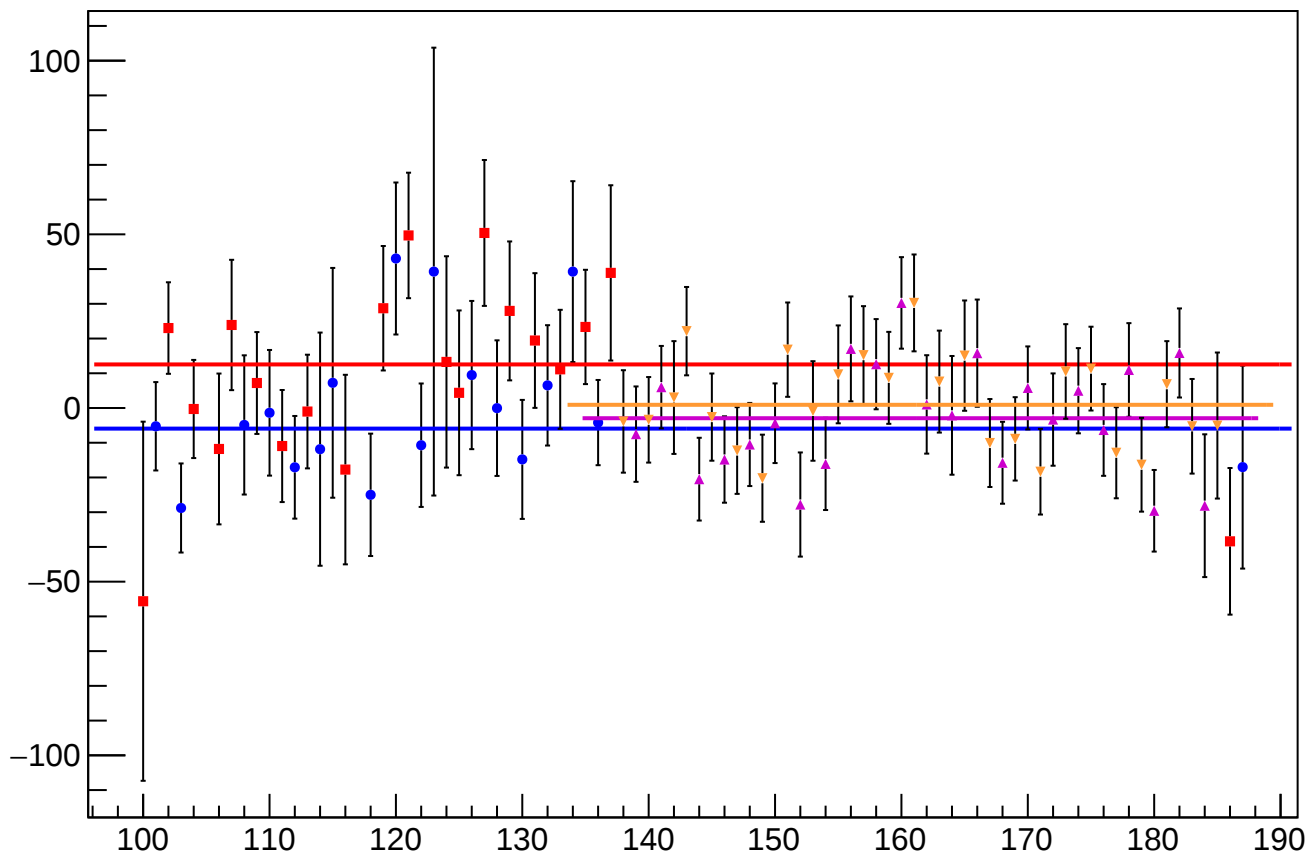
Right: 183.441+/-0.037 χ^2/NDF : 2926882.2/37

In: 182.021+/-0.027 χ^2/NDF : 2780957.0/40

Out: 189.560+/-0.028 χ^2/NDF : 3717418.1/44

All: 185.755+/-0.020 χ^2/NDF : 6535685.5/85

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: 12.545 ± 4.187 $\chi^2/\text{NDF}: 25.5/19$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

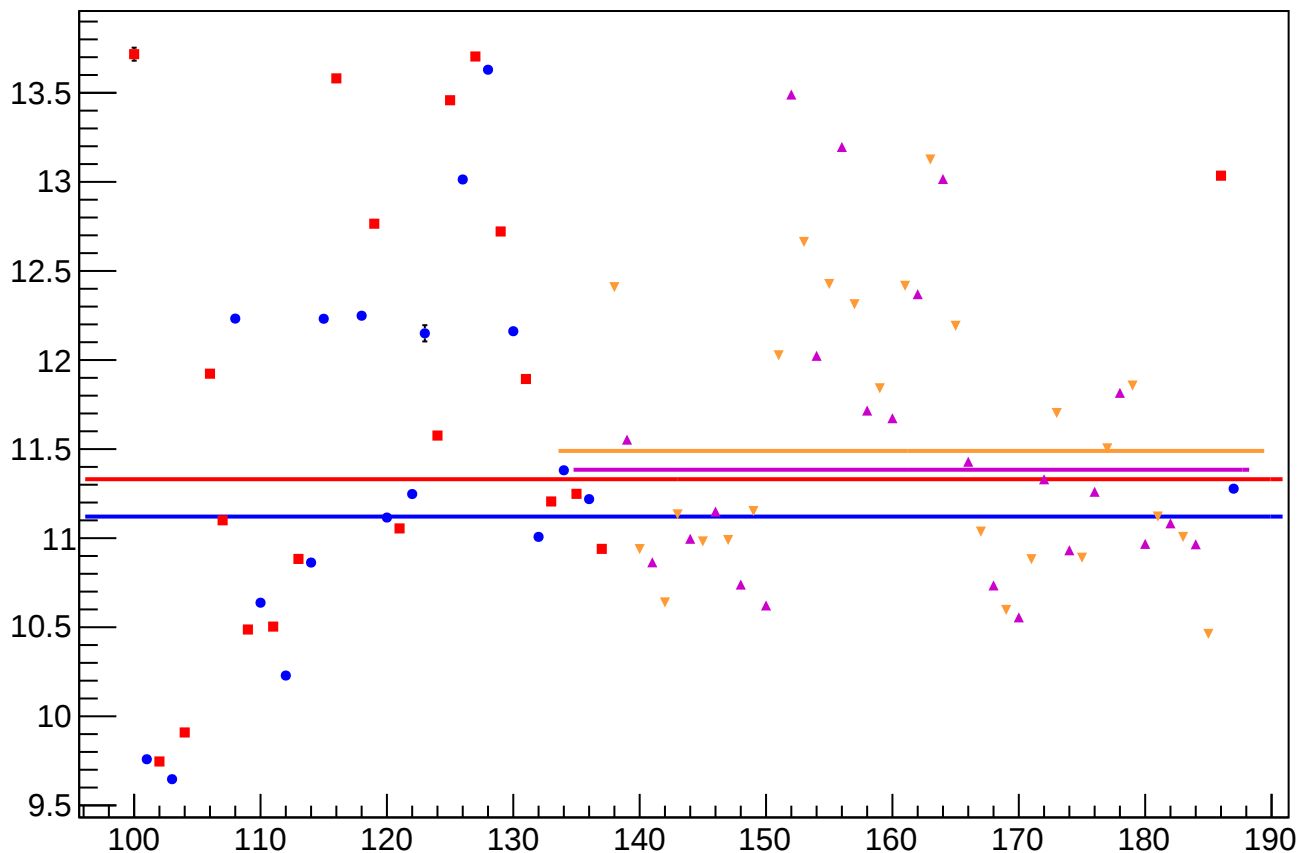
Right: 3.581 ± 3.004 $\chi^2/\text{NDF}: 50.2/37$

In: -3.804 ± 2.316 $\chi^2/\text{NDF}: 46.7/40$

Out: 4.328 ± 2.267 $\chi^2/\text{NDF}: 54.9/44$

All: 0.349 ± 1.620 $\chi^2/\text{NDF}: 107.9/85$

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: 11.331 $\pm$ 0.003 χ^2/NDF : 162266.2/19

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

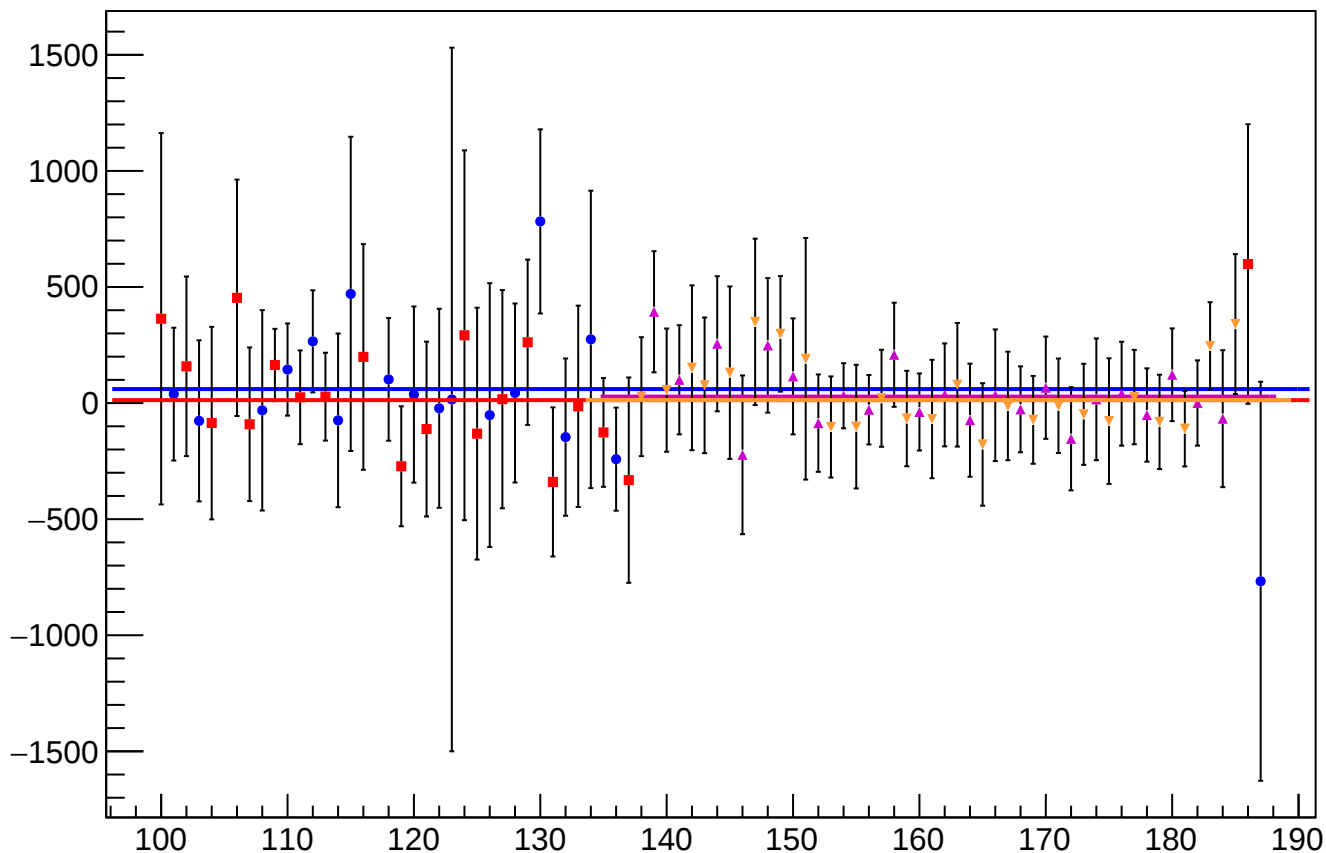
Right: 11.229 $\pm$ 0.002 χ^2/NDF : 296710.5/37

In: 11.308 $\pm$ 0.002 χ^2/NDF : 287096.6/40

Out: 11.443 $\pm$ 0.002 χ^2/NDF : 296699.9/44

All: 11.377 $\pm$ 0.001 χ^2/NDF : 587261.8/85

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: 12.690+/-69.752 χ^2/NDF : 7.5/19

Left In: 28.050+/-44.681 χ^2/NDF : 6.6/22

Left: 21.161+/-32.597 χ^2/NDF : 14.6/47

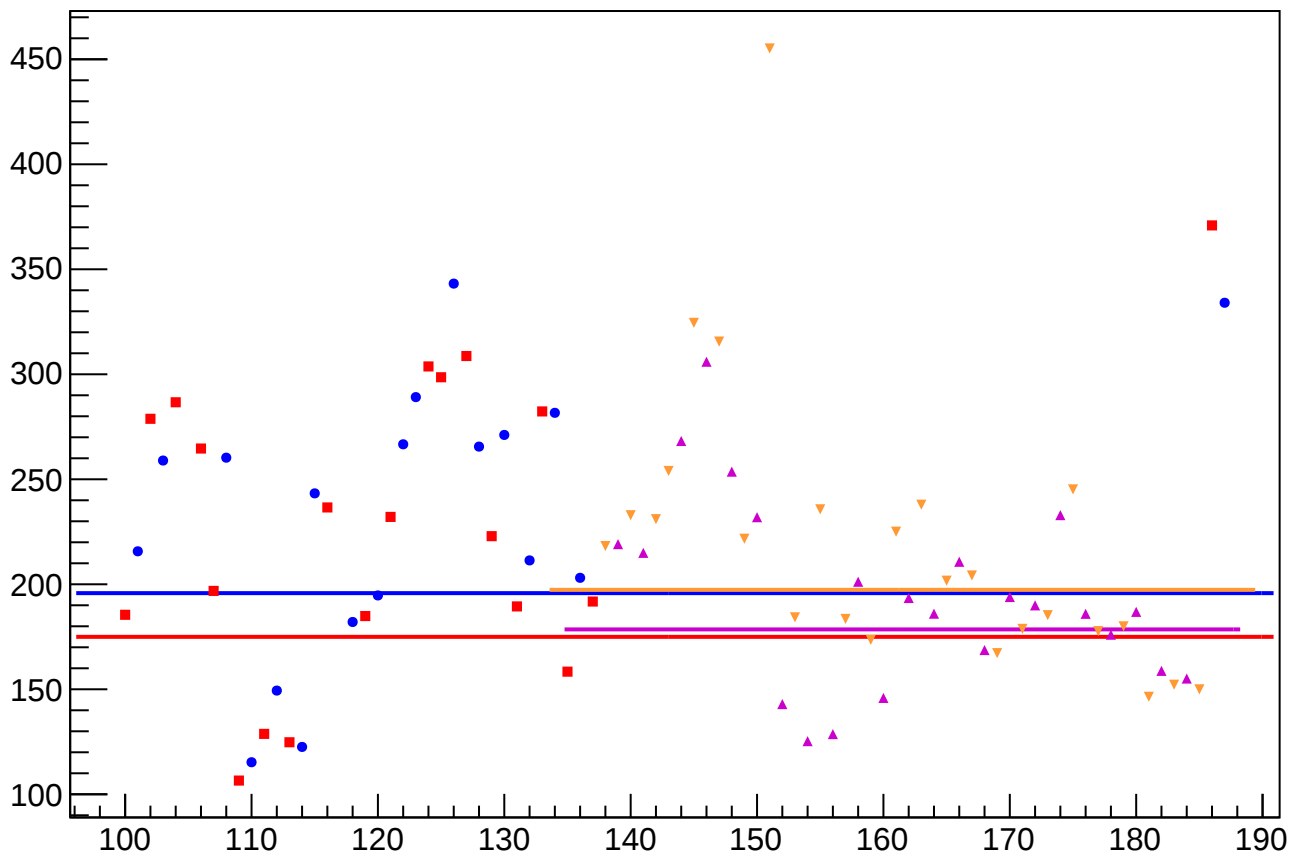
Right: 33.330+/-52.490 χ^2/NDF : 16.1/37

In: 35.757+/-38.975 χ^2/NDF : 15.2/40

Out: 13.121+/-39.352 χ^2/NDF : 15.3/44

All: 24.548+/-27.692 χ^2/NDF : 30.7/85

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: 174.977 $\pm$ 0.049 χ^2 /NDF: 1778891.2/19

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

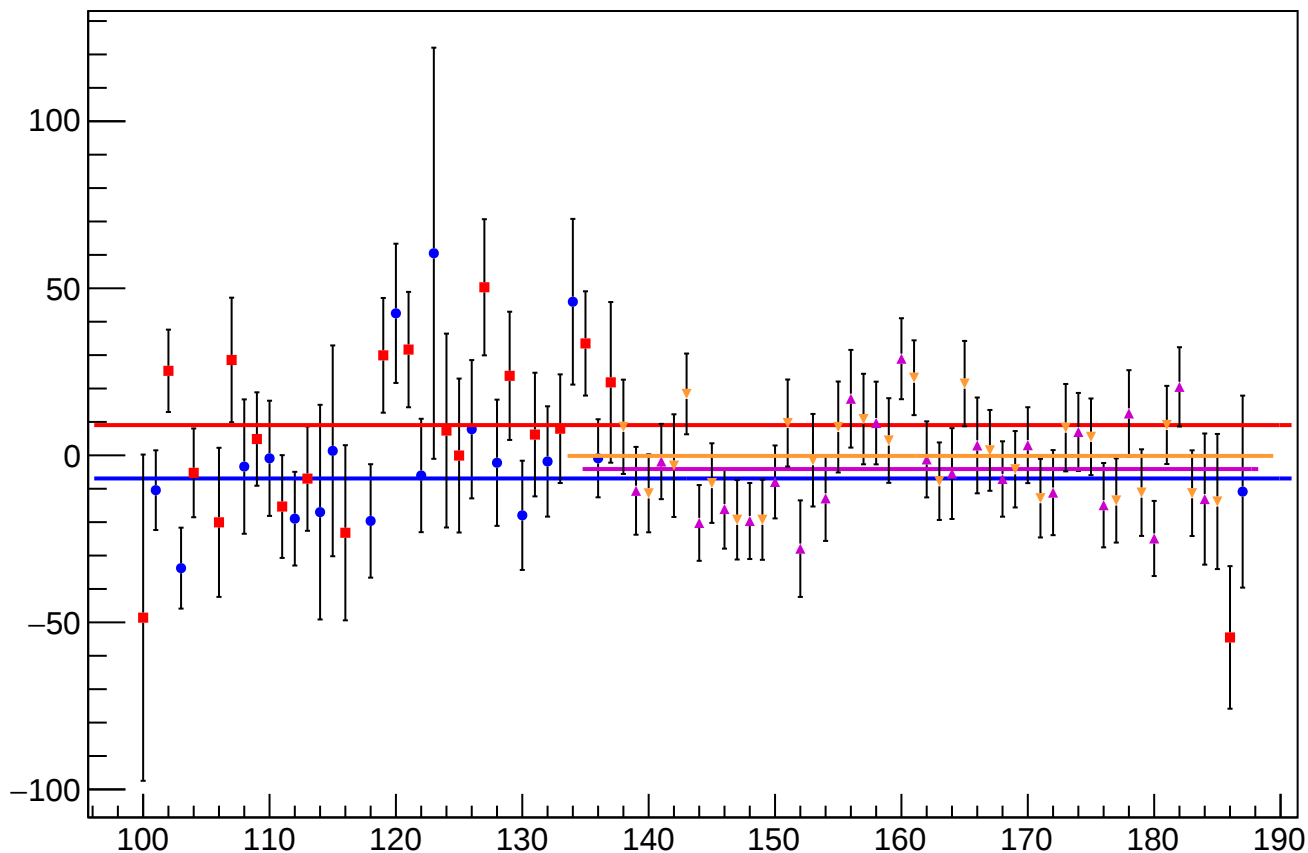
Right: 184.000 $\pm$ 0.037 χ^2 /NDF: 2915271.8/37

In: 182.642 $\pm$ 0.028 χ^2 /NDF:2772956.9/40

Out: 190.232 $\pm$ 0.028 χ^2 /NDF:3710055.5/44

All: 186.400 $\pm$ 0.020 χ^2 /NDF: 6520575.8/85

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: 9.053 ± 4.013 χ^2/NDF : 31.9/19

Left In: -4.107 ± 2.577 χ^2/NDF : 31.5/22

Left: -2.095 ± 1.802 χ^2/NDF : 57.1/47

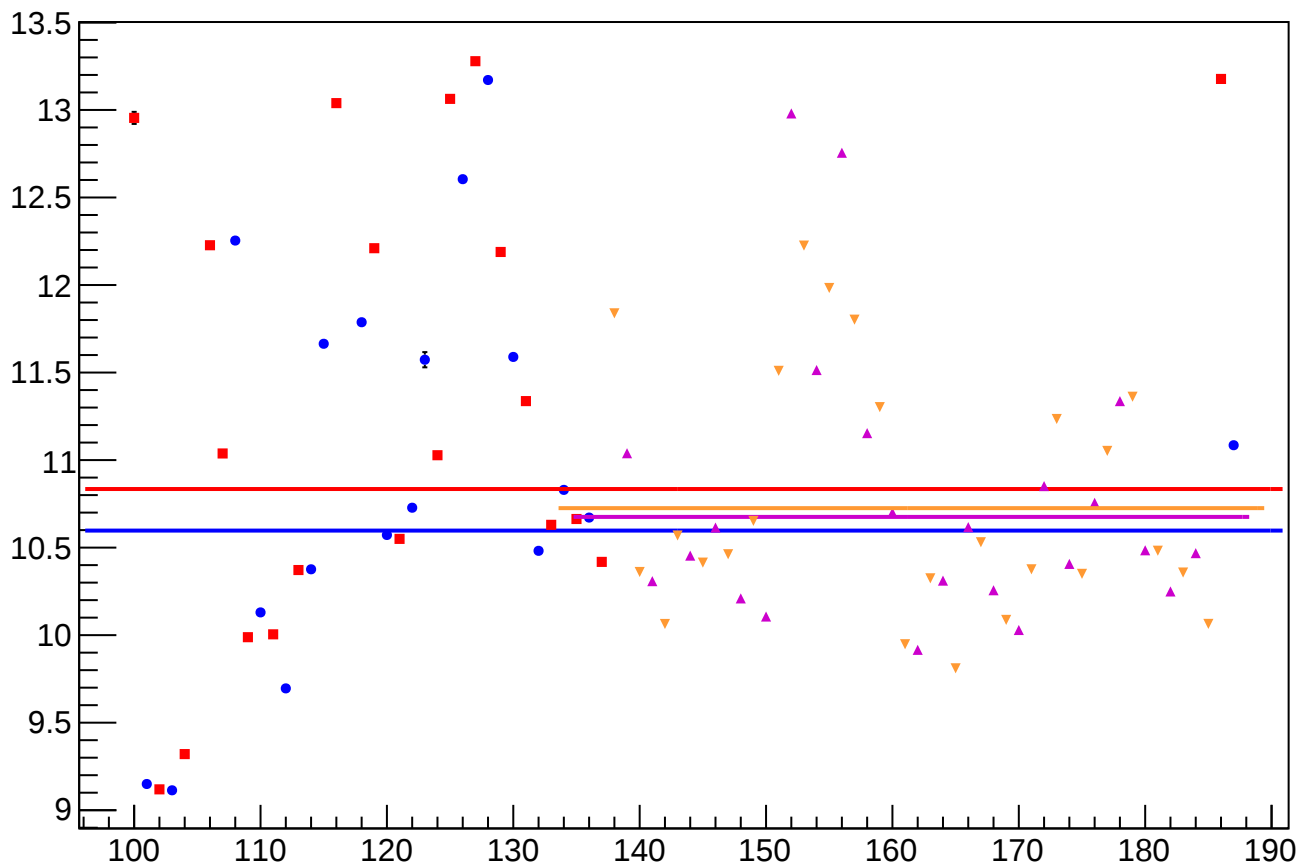
Right: 1.273 ± 2.874 χ^2/NDF : 59.0/37

In: -4.899 ± 2.185 χ^2/NDF : 51.3/40

Out: 2.439 ± 2.134 χ^2/NDF : 60.1/44

All: -1.144 ± 1.527 χ^2/NDF : 117.1/85

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: 10.835 $\pm$ 0.003 χ^2 /NDF: 203166.0/19

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

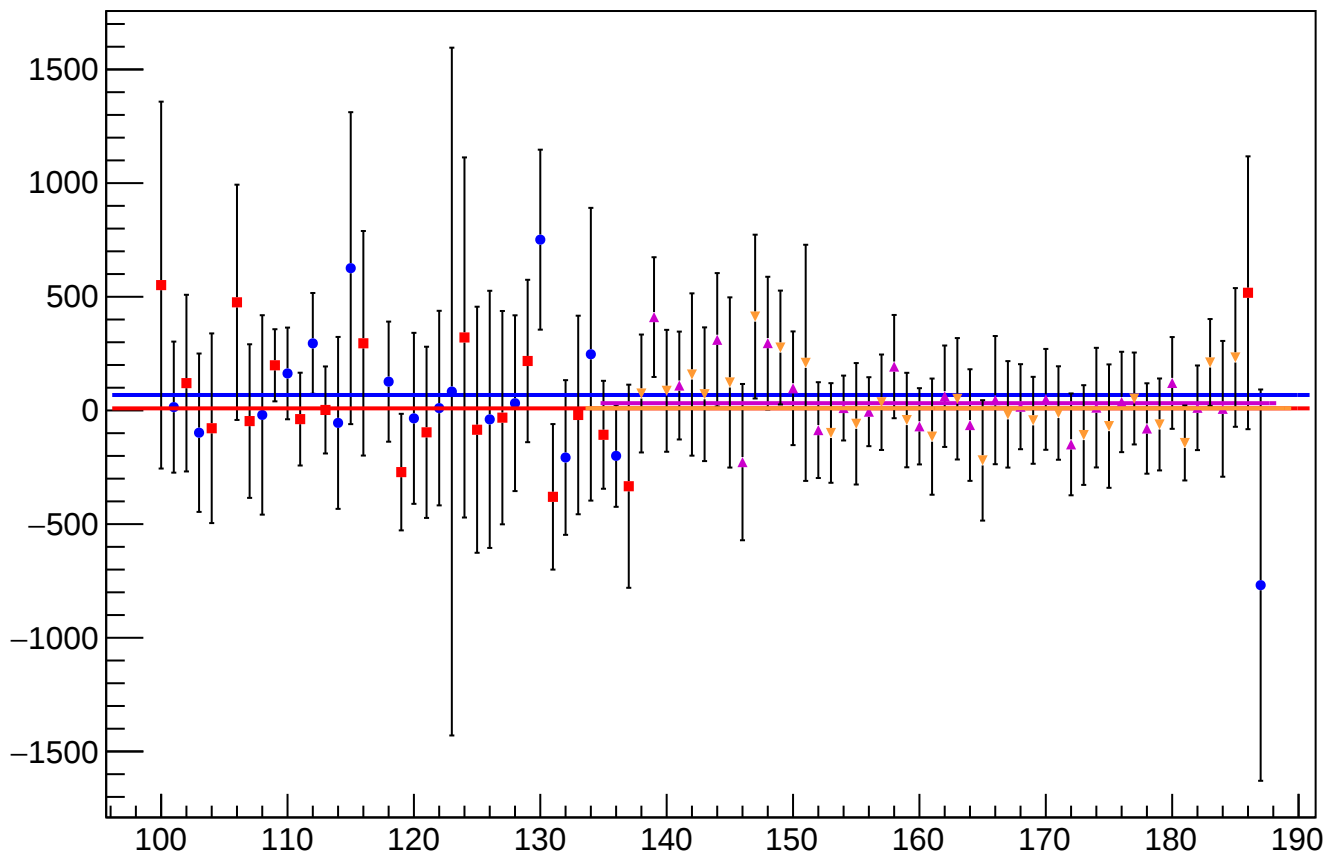
Right: 10.719 $\pm$ 0.002 χ^2 /NDF: 366386.7/37

In: 10.653 $\pm$ 0.002 χ^2 /NDF:306266.3/40

Out: 10.756 $\pm$ 0.002 χ^2 /NDF:336400.0/44

All: 10.706 $\pm$ 0.001 χ^2 /NDF: 644937.9/85

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: 9.145 $\pm$ 70.406 χ^2 /NDF: 8.1/19

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

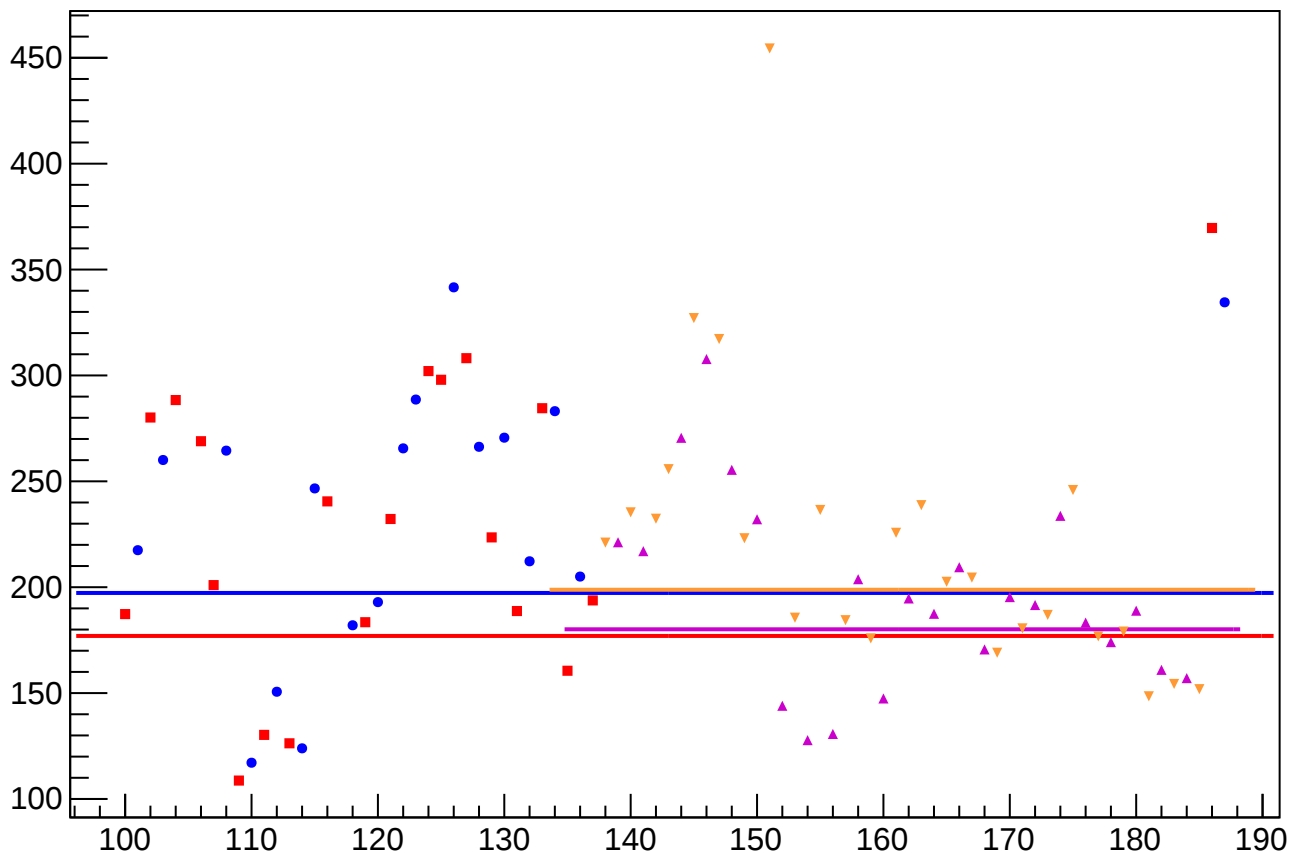
Right: 34.765 $\pm$ 52.920 χ^2 /NDF: 17.0/37

In: 40.626 $\pm$ 39.274 χ^2 /NDF: 15.9/40

Out: 9.593 $\pm$ 39.648 χ^2 /NDF: 15.6/44

All: 25.257 $\pm$ 27.902 χ^2 /NDF: 31.9/85

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: 176.990 $\pm$ 0.050 χ^2 /NDF: 1732859.9/19

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

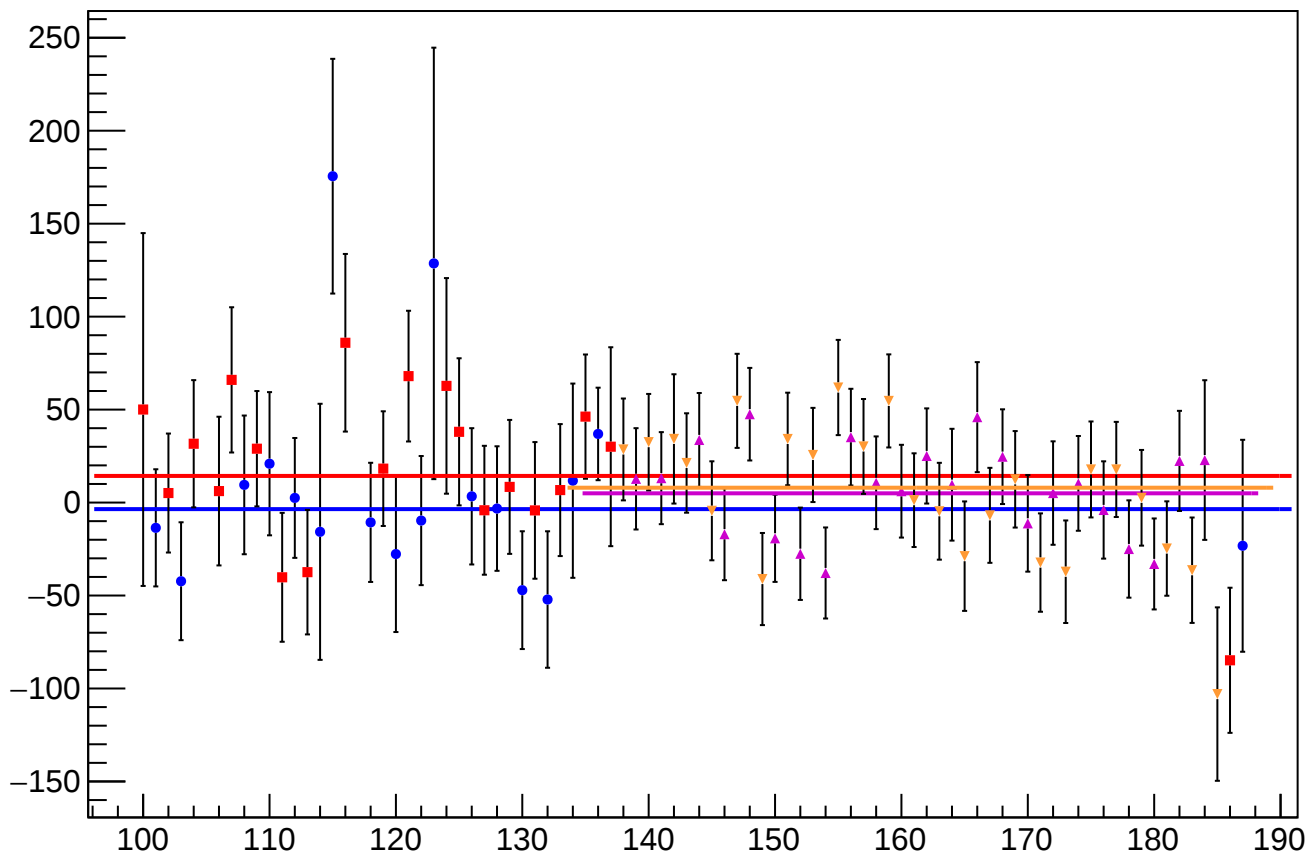
Right: 185.821 $\pm$ 0.037 χ^2 /NDF: 2837616.8/37

In: 184.236 $\pm$ 0.028 χ^2 /NDF:2695890.1/40

Out: 191.884 $\pm$ 0.028 χ^2 /NDF:3627037.3/44

All: 188.024 $\pm$ 0.020 χ^2 /NDF: 6360488.2/85

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: 14.326 ± 8.374 χ^2/NDF : 21.1/19

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

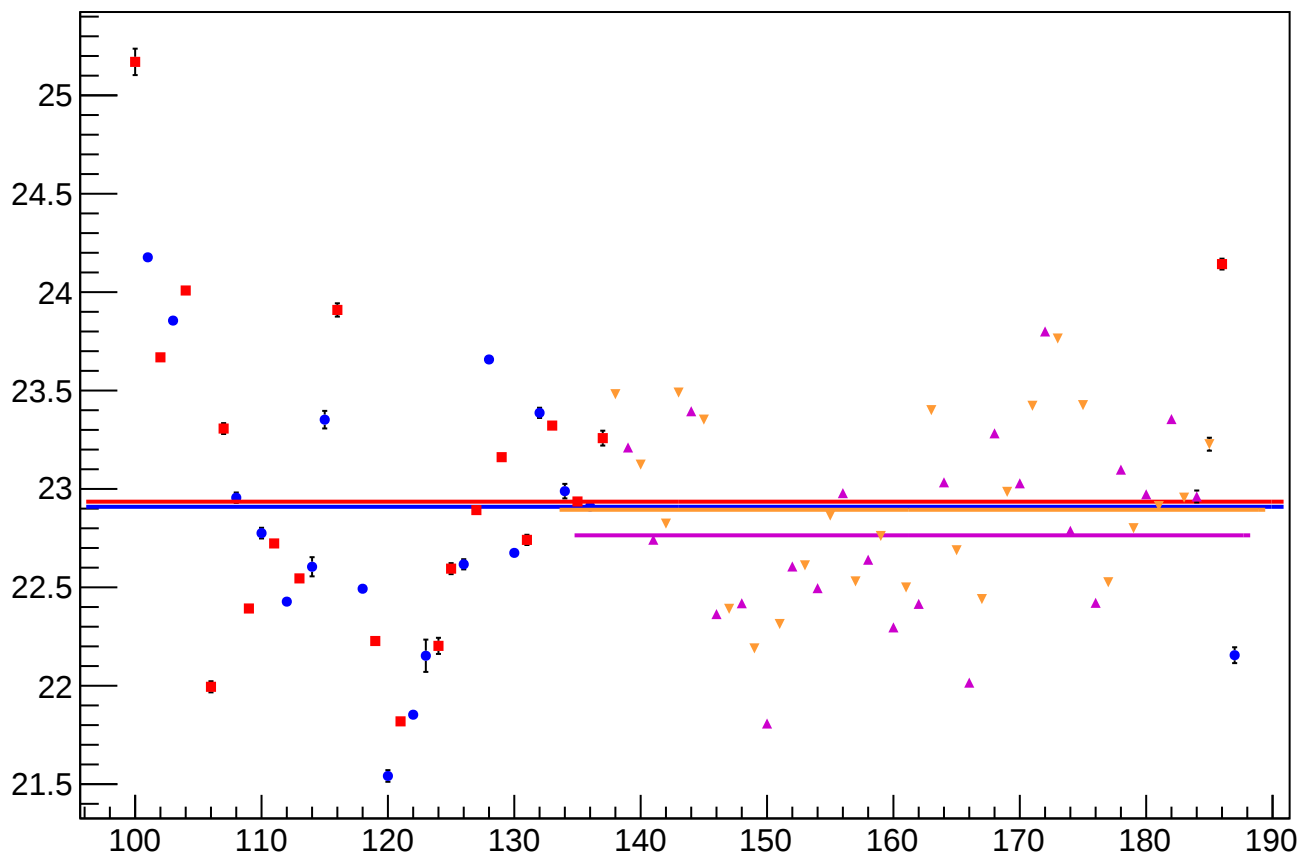
Right: 5.838 ± 6.065 χ^2/NDF : 41.7/37

In: 2.619 ± 4.629 χ^2/NDF : 39.6/40

Out: 9.815 ± 4.495 χ^2/NDF : 58.9/44

All: 6.323 ± 3.225 χ^2/NDF : 99.8/85

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: 22.935 $\pm$ 0.006 χ^2/NDF : 13104.8/19

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

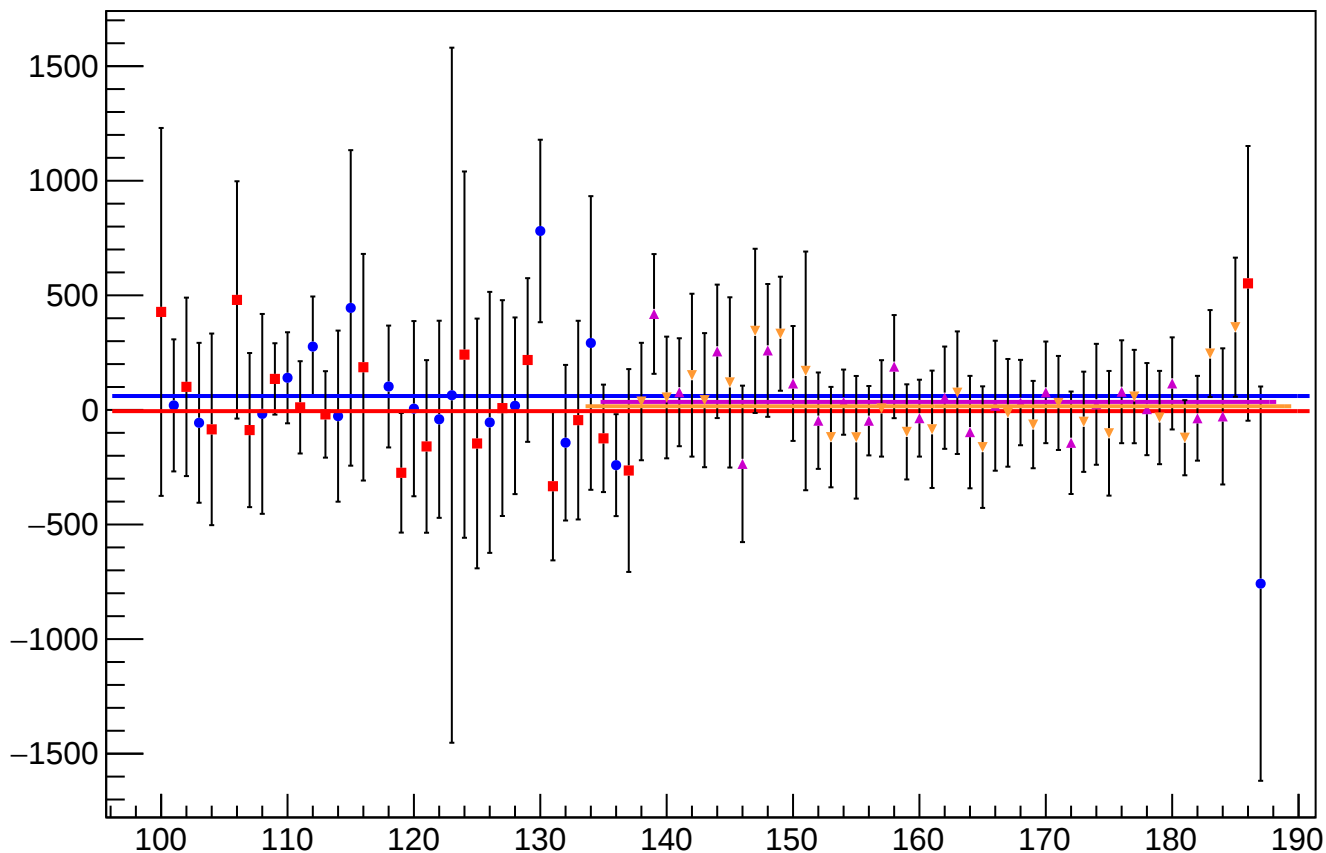
Right: 22.923 $\pm$ 0.004 χ^2/NDF : 25073.4/37

In: 22.804 $\pm$ 0.003 χ^2/NDF : 27018.0/40

Out: 22.906 $\pm$ 0.003 χ^2/NDF : 26209.7/44

All: 22.857 $\pm$ 0.002 χ^2/NDF : 53723.1/85

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 60.657 $\pm$ 79.882 χ^2 /NDF: 8.3/17

Left Out: 15.904 $\pm$ 47.898 χ^2 /NDF:8.4/24

Right Out: -5.314 $\pm$ 69.918 χ^2 /NDF: 6.6/19

Left In: 34.919 $\pm$ 44.971 χ^2 /NDF:6.6/22

Left: 26.010 $\pm$ 32.785 χ^2 /NDF: 15.1/47

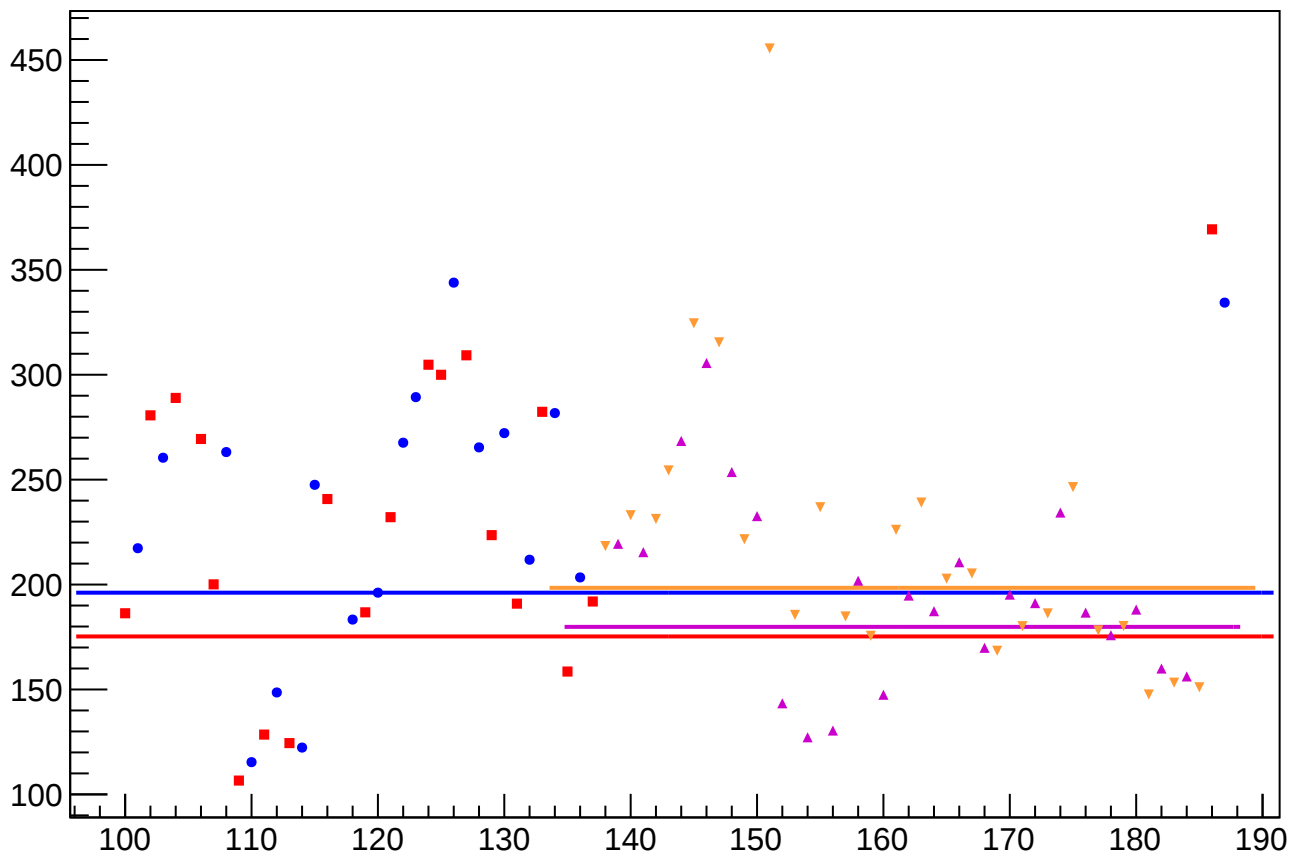
Right: 23.303 $\pm$ 52.612 χ^2 /NDF: 15.3/37

In: 41.113 $\pm$ 39.188 χ^2 /NDF:15.0/40

Out: 9.126 $\pm$ 39.515 χ^2 /NDF:15.1/44

All: 25.253 $\pm$ 27.825 χ^2 /NDF: 30.4/85

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: 175.271 $\pm$ 0.049 χ^2 /NDF: 1803915.6/19

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

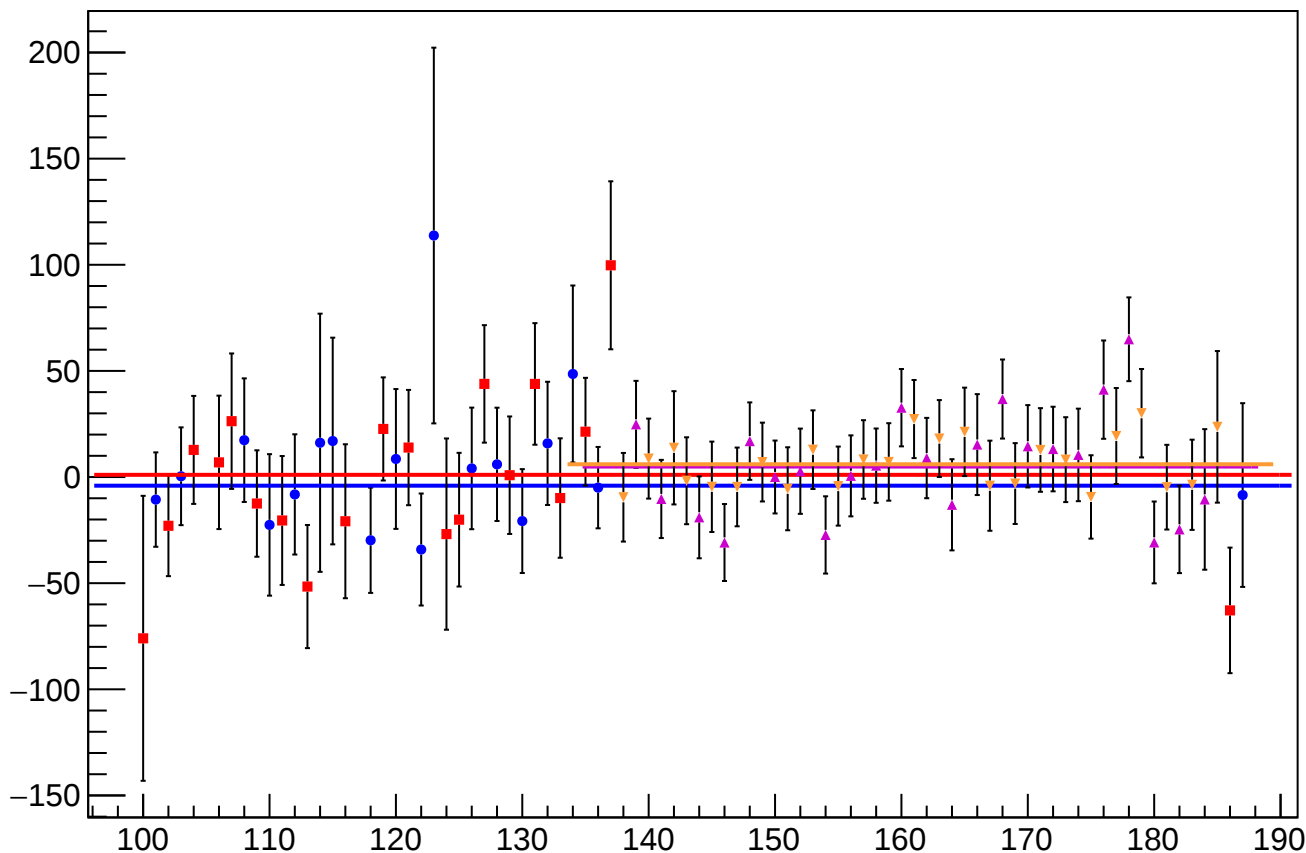
Right: 184.318 $\pm$ 0.037 χ^2 /NDF: 2955117.1/37

In: 183.759 $\pm$ 0.028 χ^2 /NDF:2725979.0/40

Out: 191.046 $\pm$ 0.028 χ^2 /NDF:3714951.8/44

All: 187.372 $\pm$ 0.020 χ^2 /NDF: 6475218.5/85

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: 1.040 ± 6.573 χ^2/NDF : 25.8/19

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

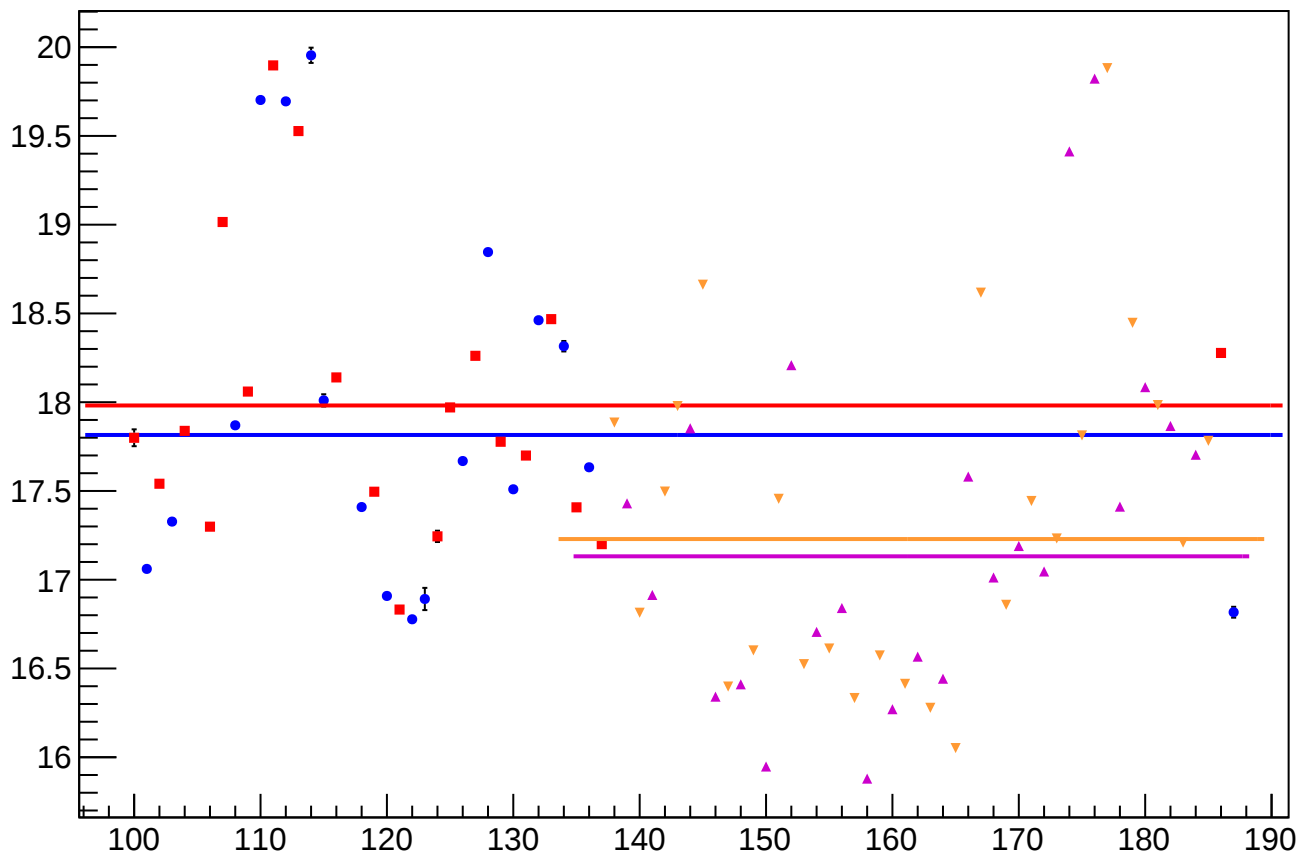
Right: -1.413 ± 4.741 χ^2/NDF : 34.5/37

In: 2.556 ± 3.522 χ^2/NDF : 44.5/40

Out: 4.666 ± 3.428 χ^2/NDF : 34.4/44

All: 3.639 ± 2.456 χ^2/NDF : 79.0/85

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.815 $\pm$ 0.005 χ^2 /NDF: 32168.9/17

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 17.982 $\pm$ 0.005 χ^2 /NDF: 25534.5/19

Left In: 17.132 $\pm$ 0.003 χ^2 /NDF:103997.3/22

Left: 17.182 $\pm$ 0.002 χ^2 /NDF: 203195.4/47

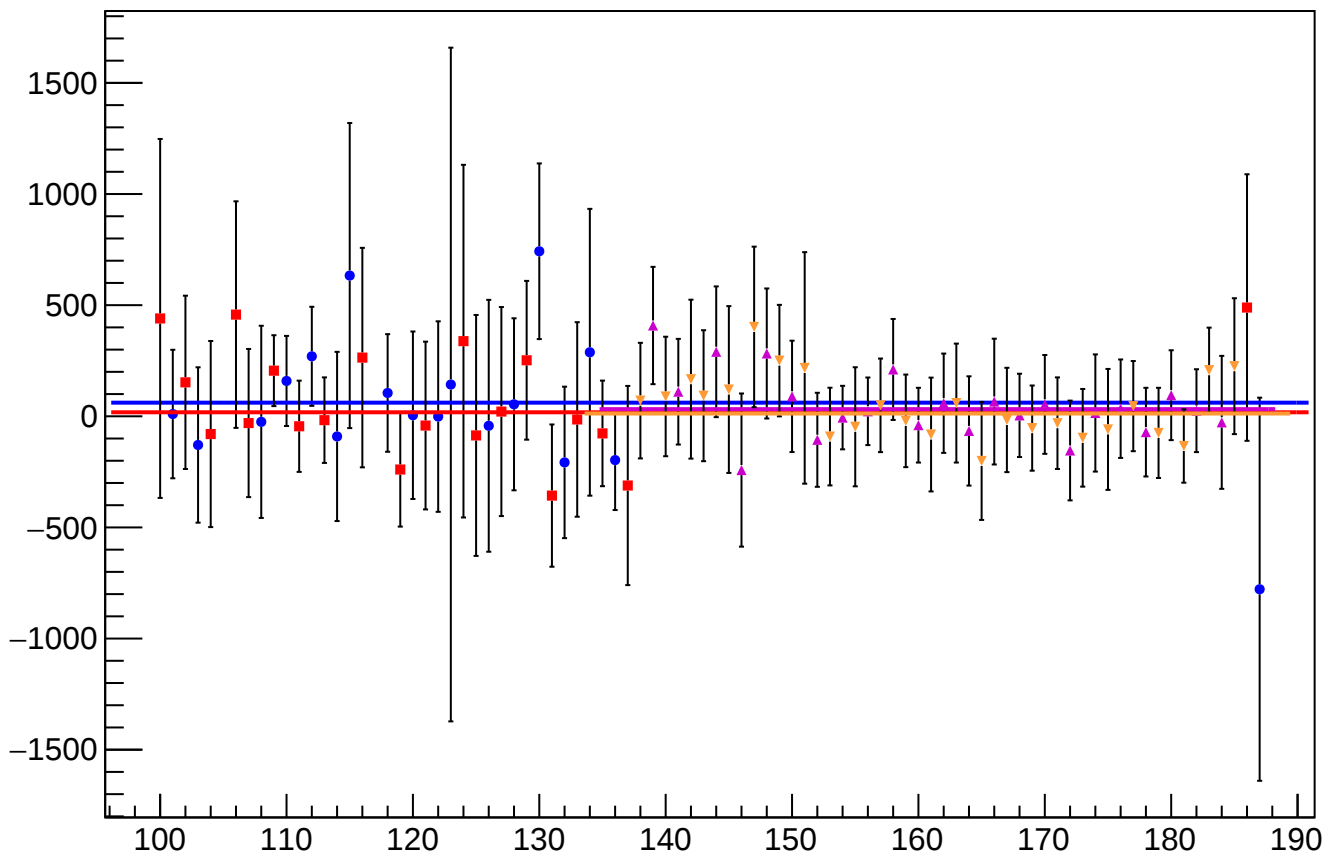
Right: 17.902 $\pm$ 0.003 χ^2 /NDF: 58316.6/37

In: 17.313 $\pm$ 0.002 χ^2 /NDF:150834.5/40

Out: 17.434 $\pm$ 0.002 χ^2 /NDF:143239.6/44

All: 17.375 $\pm$ 0.002 χ^2 /NDF: 295284.0/85

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: 18.020 $\pm$ 70.560 χ^2 /NDF: 7.3/19

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

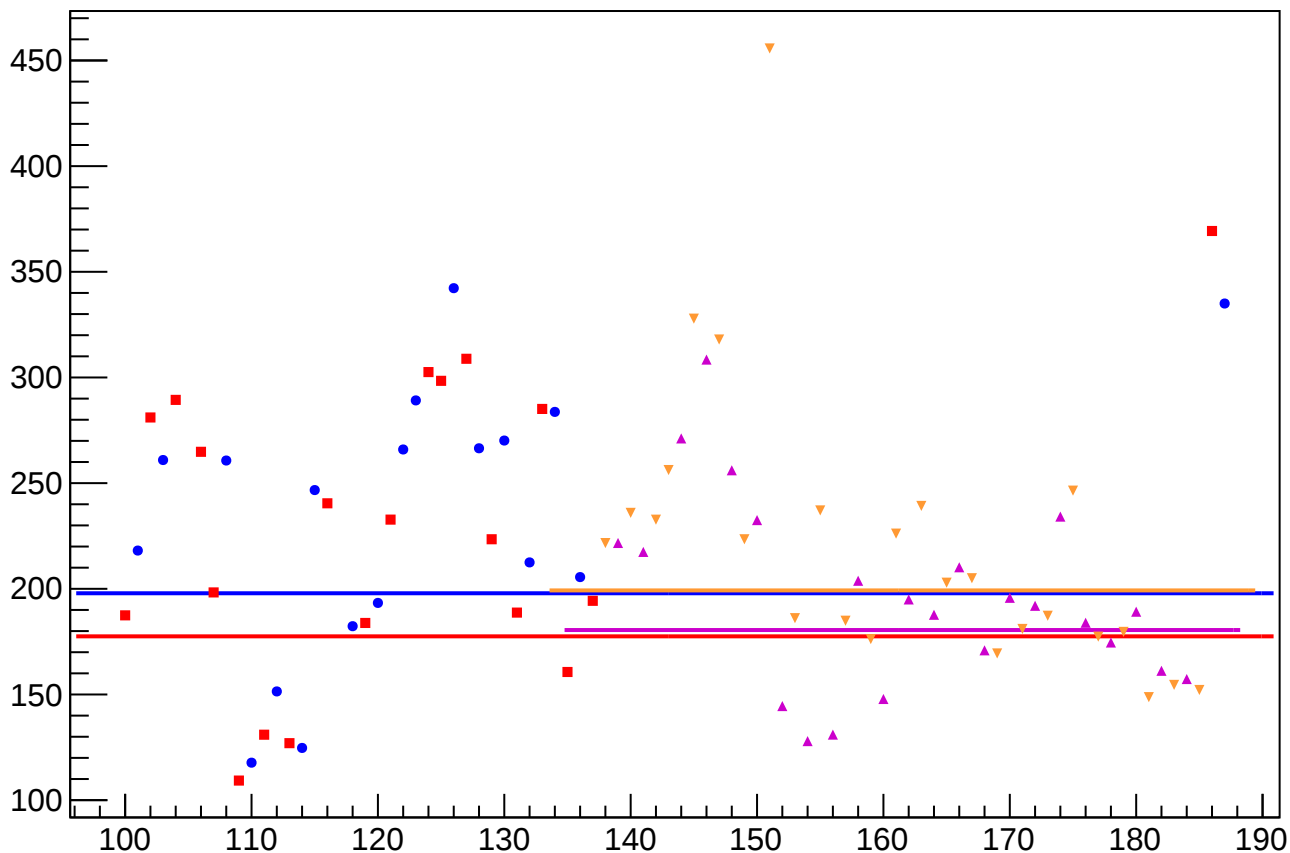
Right: 36.855 $\pm$ 53.042 χ^2 /NDF: 15.9/37

In: 39.144 $\pm$ 39.358 χ^2 /NDF: 15.5/40

Out: 14.233 $\pm$ 39.736 χ^2 /NDF: 14.2/44

All: 26.808 $\pm$ 27.963 χ^2 /NDF: 29.8/85

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: 177.510 $\pm$ 0.050 χ^2 /NDF: 1713744.2/19

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

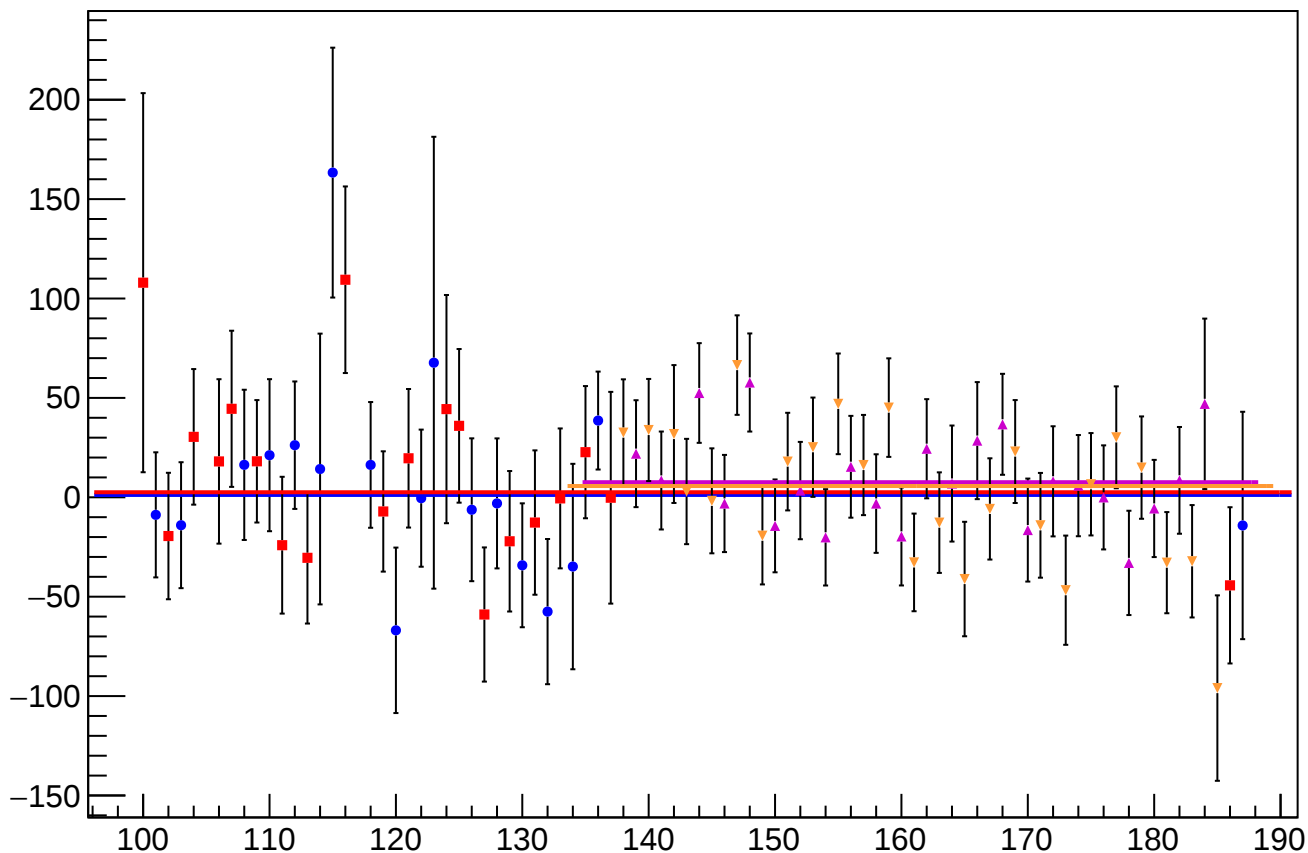
Right: 186.375 $\pm$ 0.038 χ^2 /NDF: 2803550.6/37

In: 184.661 $\pm$ 0.028 χ^2 /NDF:2682189.4/40

Out: 192.349 $\pm$ 0.028 χ^2 /NDF:3607386.0/44

All: 188.468 $\pm$ 0.020 χ^2 /NDF: 6327373.7/85

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.190+/-8.722 χ^2/NDF : 18.1/17

Left Out: 5.673+/-5.278 χ^2/NDF :36.4/24

Right Out: 2.543+/-8.306 χ^2/NDF : 18.1/19

Left In: 7.594+/-5.402 χ^2/NDF :18.3/22

Left: 6.611+/-3.775 χ^2/NDF : 54.8/47

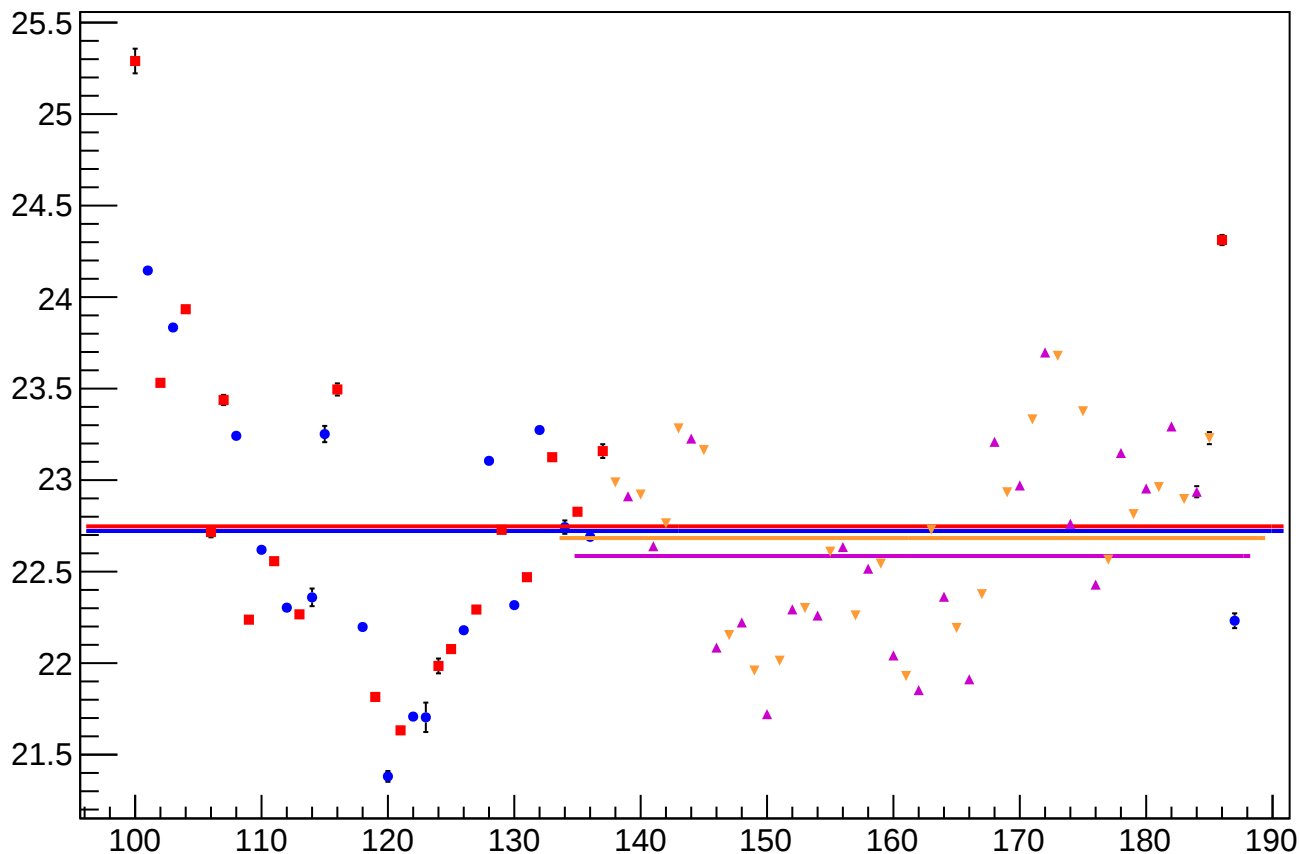
Right: 1.899+/-6.015 χ^2/NDF : 36.2/37

In: 5.819+/-4.592 χ^2/NDF :36.8/40

Out: 4.773+/-4.455 χ^2/NDF :54.6/44

All: 5.280+/-3.197 χ^2/NDF : 91.4/85

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: 22.747 $\pm$ 0.006 χ^2 /NDF: 16127.0/19

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

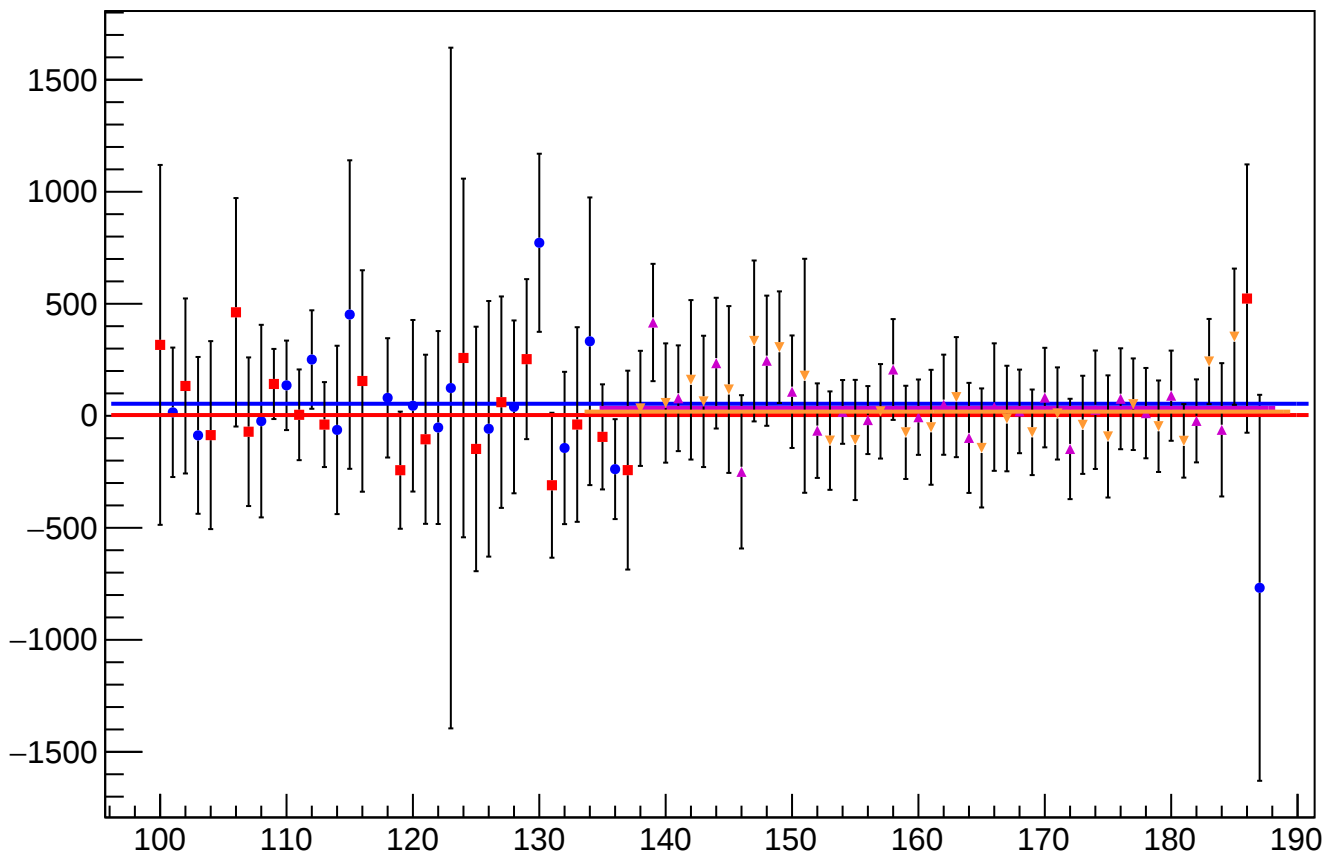
Right: 22.735 $\pm$ 0.004 χ^2 /NDF: 29816.6/37

In: 22.623 $\pm$ 0.003 χ^2 /NDF:32123.0/40

Out: 22.702 $\pm$ 0.003 χ^2 /NDF:32529.3/44

All: 22.664 $\pm$ 0.002 χ^2 /NDF: 64954.9/85

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: 3.374 $\pm$ 70.076 χ^2 /NDF: 5.9/19

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

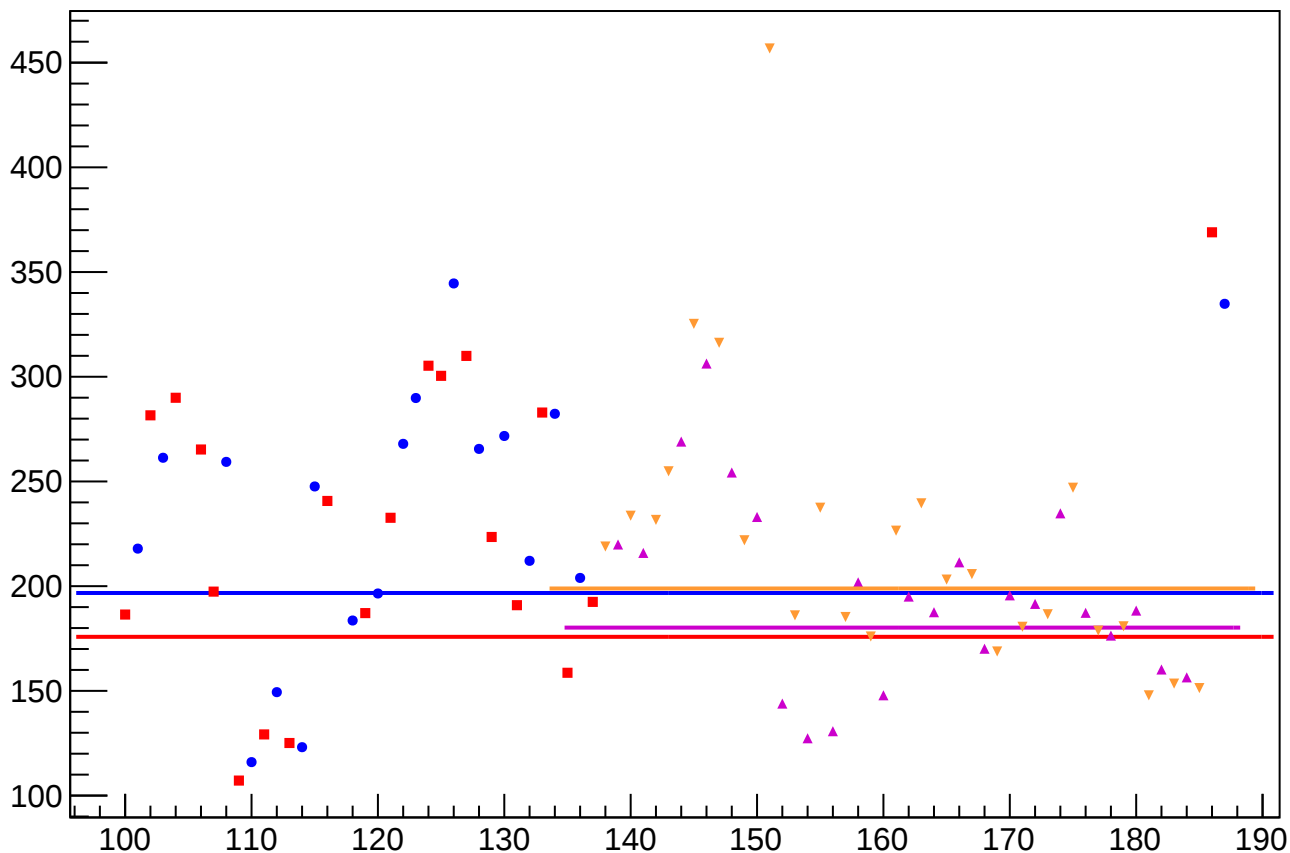
Right: 25.227 $\pm$ 52.736 χ^2 /NDF: 14.3/37

In: 39.548 $\pm$ 39.272 χ^2 /NDF: 14.5/40

Out: 13.759 $\pm$ 39.604 χ^2 /NDF: 13.6/44

All: 26.762 $\pm$ 27.886 χ^2 /NDF: 28.2/85

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.747 $\pm$ 0.057 χ^2 /NDF: 1058045.3/17

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 175.806 $\pm$ 0.050 χ^2 /NDF: 1783879.2/19

Left In: 180.207 $\pm$ 0.032 χ^2 /NDF:1589005.4/22

Left: 188.959 $\pm$ 0.023 χ^2 /NDF: 3512499.2/47

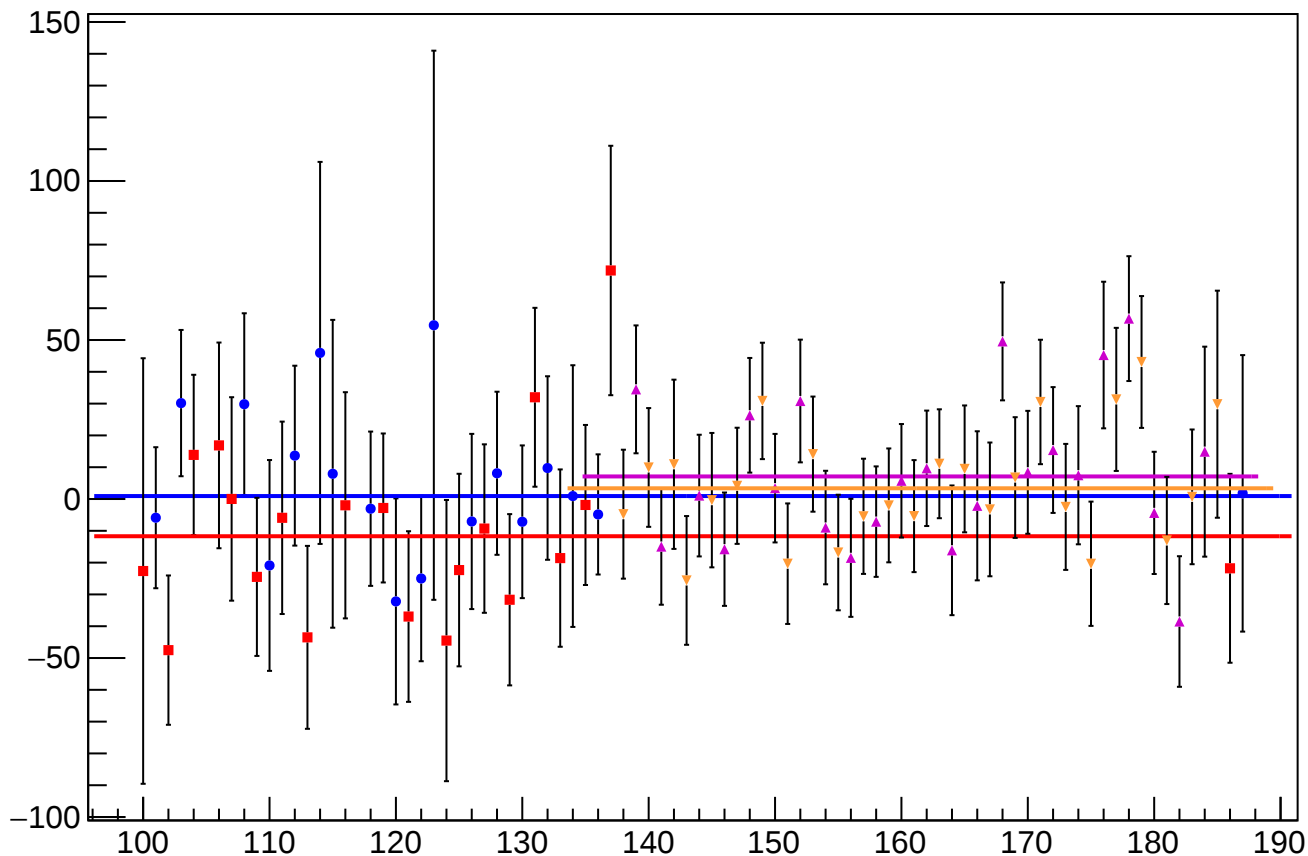
Right: 184.887 $\pm$ 0.037 χ^2 /NDF: 2919373.9/37

In: 184.185 $\pm$ 0.028 χ^2 /NDF:2711847.4/40

Out: 191.517 $\pm$ 0.028 χ^2 /NDF:3694044.8/44

All: 187.820 $\pm$ 0.020 χ^2 /NDF: 6440460.2/85

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: -11.705 ± 6.483 $\chi^2/\text{NDF}: 15.4/19$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

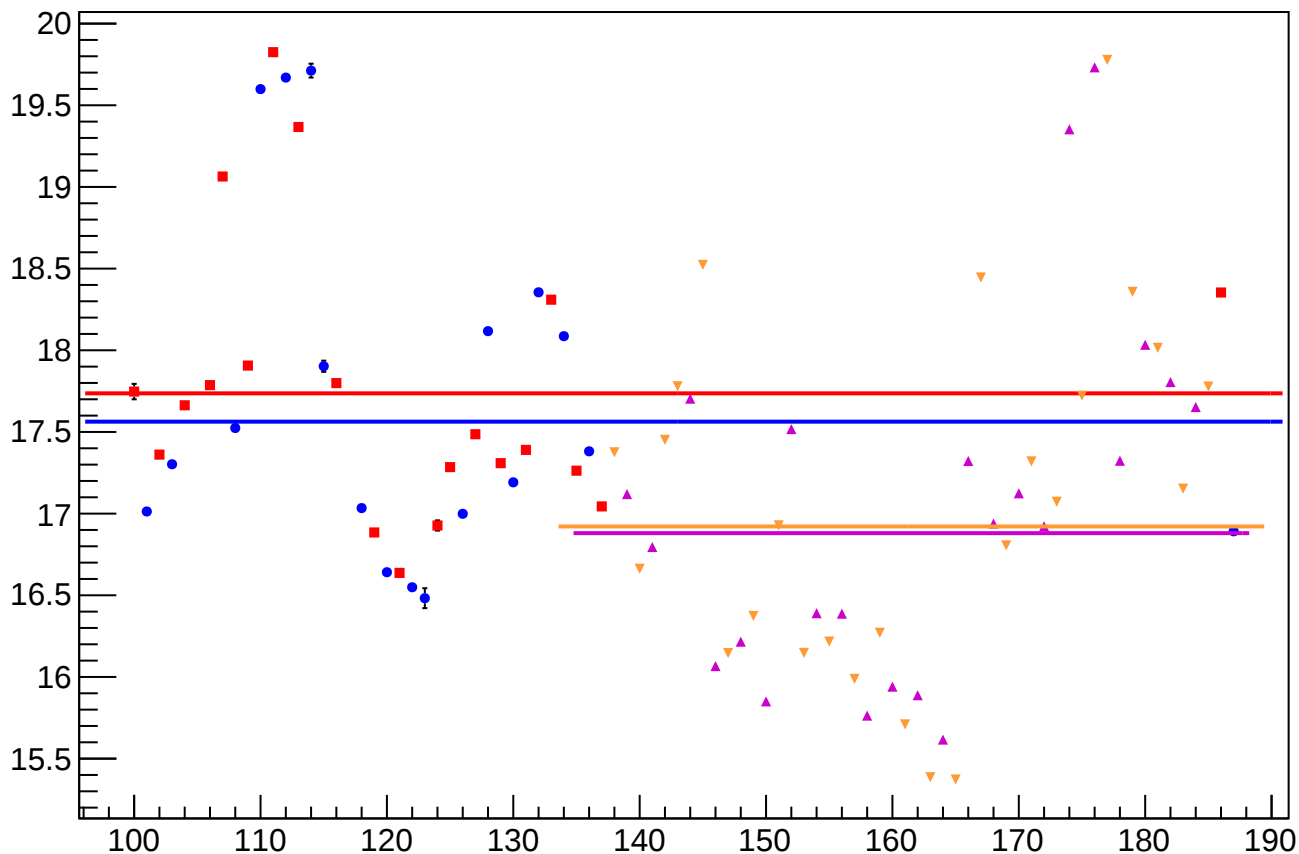
Right: -5.638 ± 4.675 $\chi^2/\text{NDF}: 24.1/37$

In: 5.466 ± 3.471 $\chi^2/\text{NDF}: 40.0/40$

Out: -0.705 ± 3.371 $\chi^2/\text{NDF}: 38.2/44$

All: 2.291 ± 2.418 $\chi^2/\text{NDF}: 79.8/85$

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: 17.736 $\pm$ 0.005 χ^2 /NDF: 31184.1/19

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

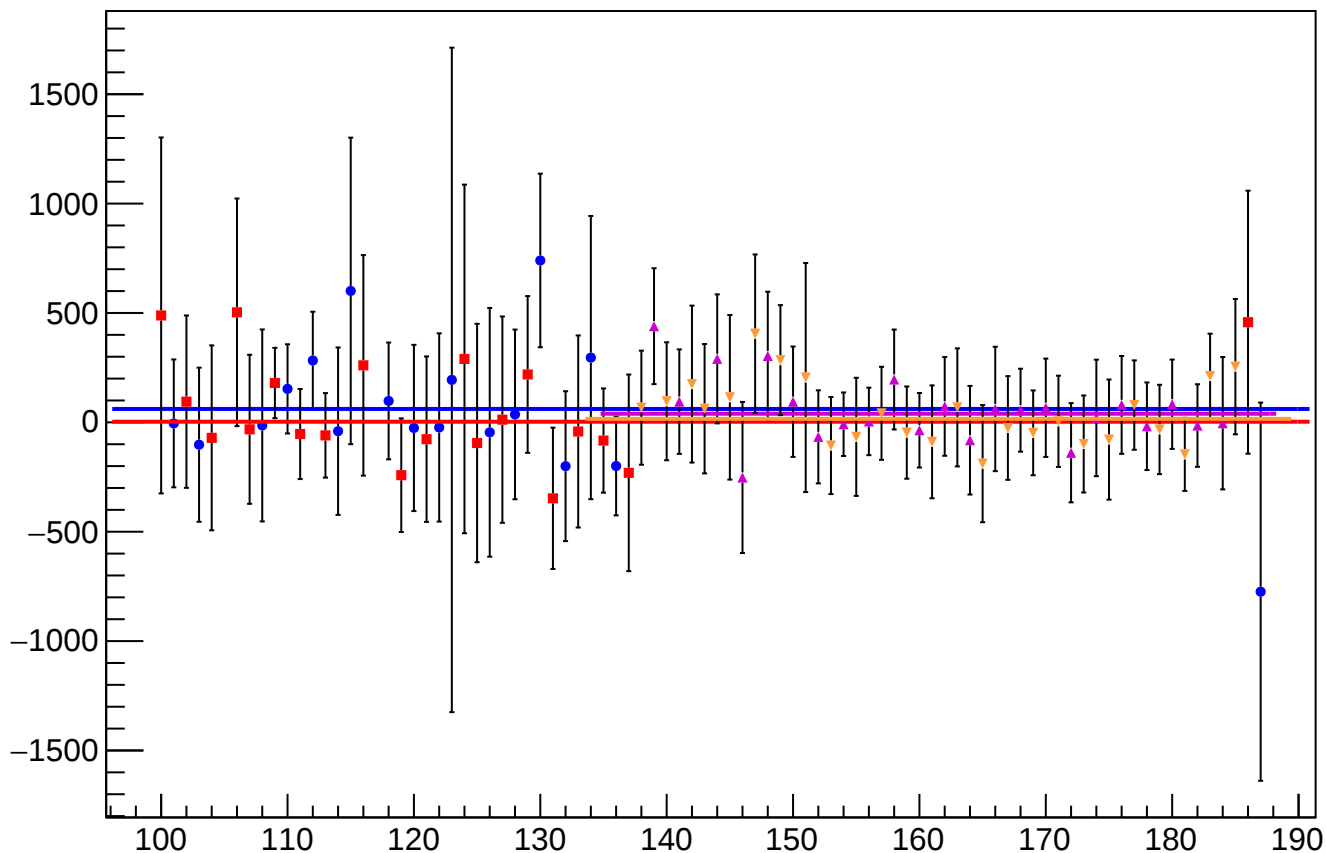
Right: 17.653 $\pm$ 0.003 χ^2 /NDF: 65321.0/37

In: 17.061 $\pm$ 0.002 χ^2 /NDF:170241.4/40

Out: 17.142 $\pm$ 0.002 χ^2 /NDF:193226.7/44

All: 17.103 $\pm$ 0.002 χ^2 /NDF: 364024.5/85

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: 2.828 $\pm$ 71.050 χ^2 /NDF: 6.6/19

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

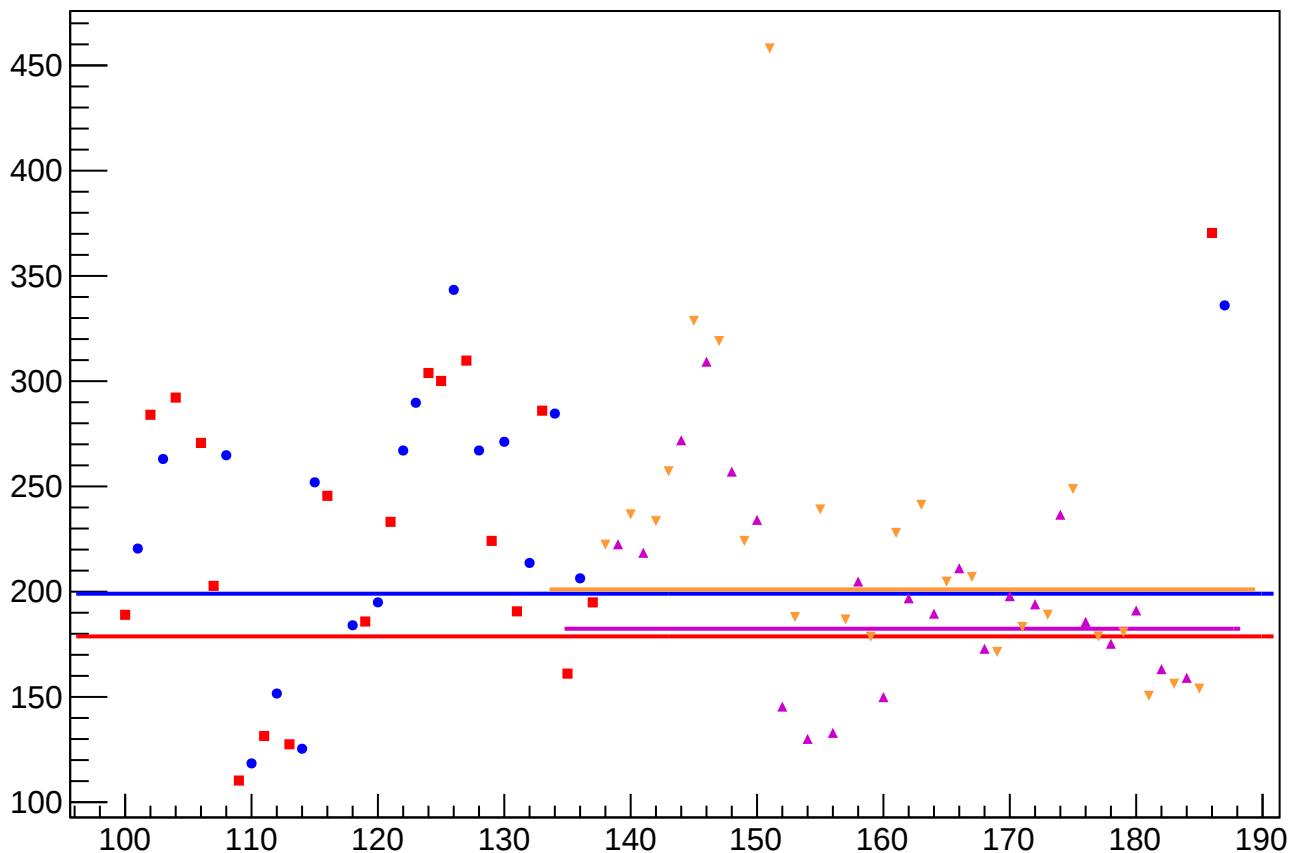
Right: 28.265 $\pm$ 53.384 χ^2 /NDF: 15.2/37

In: 44.644 $\pm$ 39.705 χ^2 /NDF: 15.2/40

Out: 11.792 $\pm$ 40.059 χ^2 /NDF: 14.0/44

All: 28.364 $\pm$ 28.200 χ^2 /NDF: 29.5/85

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 199.042 ± 0.057 χ^2/NDF : 1021730.2/17

Left Out: 201.091 ± 0.034 χ^2/NDF : 1731069.1/24

Right Out: 178.752 ± 0.050 χ^2/NDF : 1721078.5/19

Left In: 182.396 ± 0.032 χ^2/NDF : 1548907.7/22

Left: 191.161 ± 0.023 χ^2/NDF : 3437793.2/47

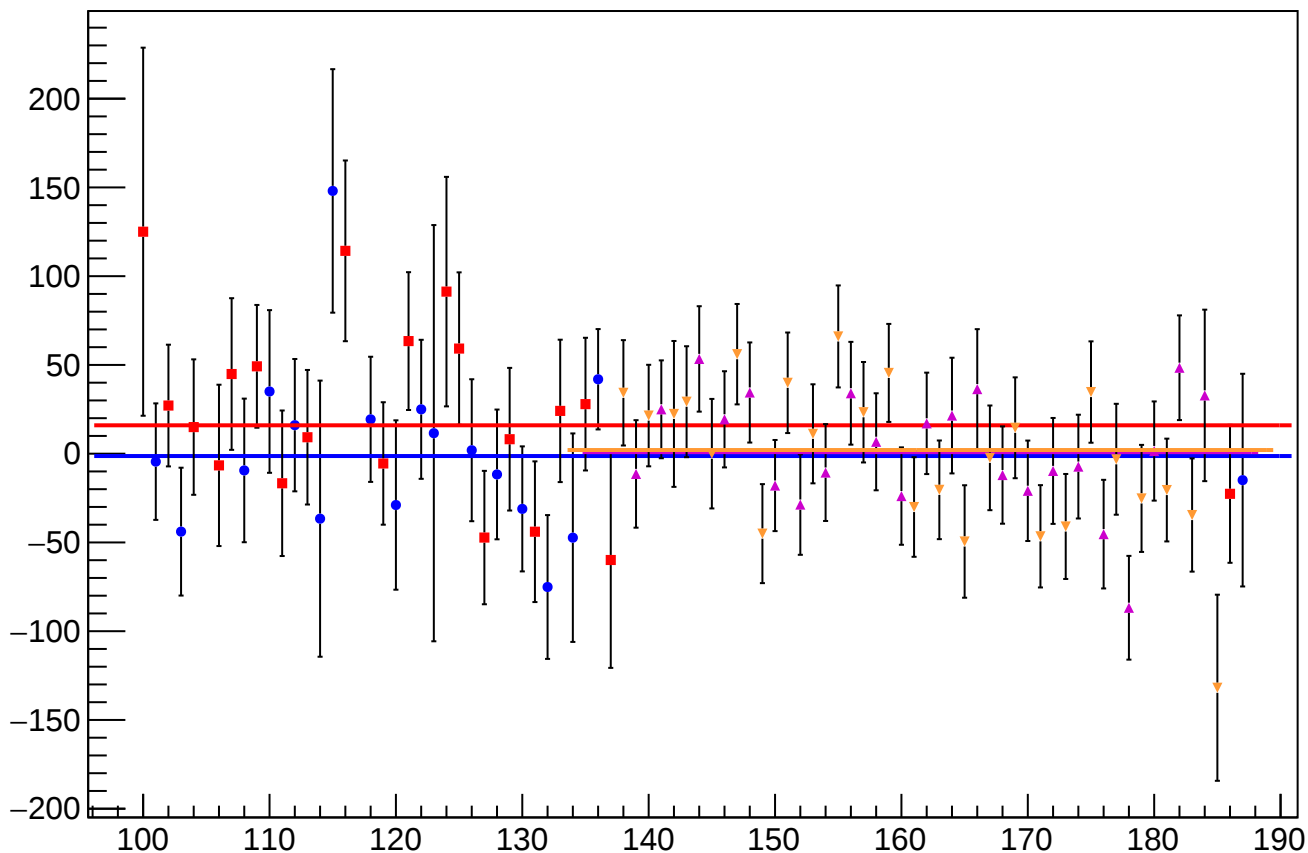
Right: 187.587 ± 0.038 χ^2/NDF : 2813836.2/37

In: 186.406 ± 0.028 χ^2/NDF : 2634917.4/40

Out: 193.990 ± 0.028 χ^2/NDF : 3587015.2/44

All: 190.164 ± 0.020 χ^2/NDF : 6258093.3/85

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: 15.989 ± 9.246 χ^2/NDF : 19.3/19

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

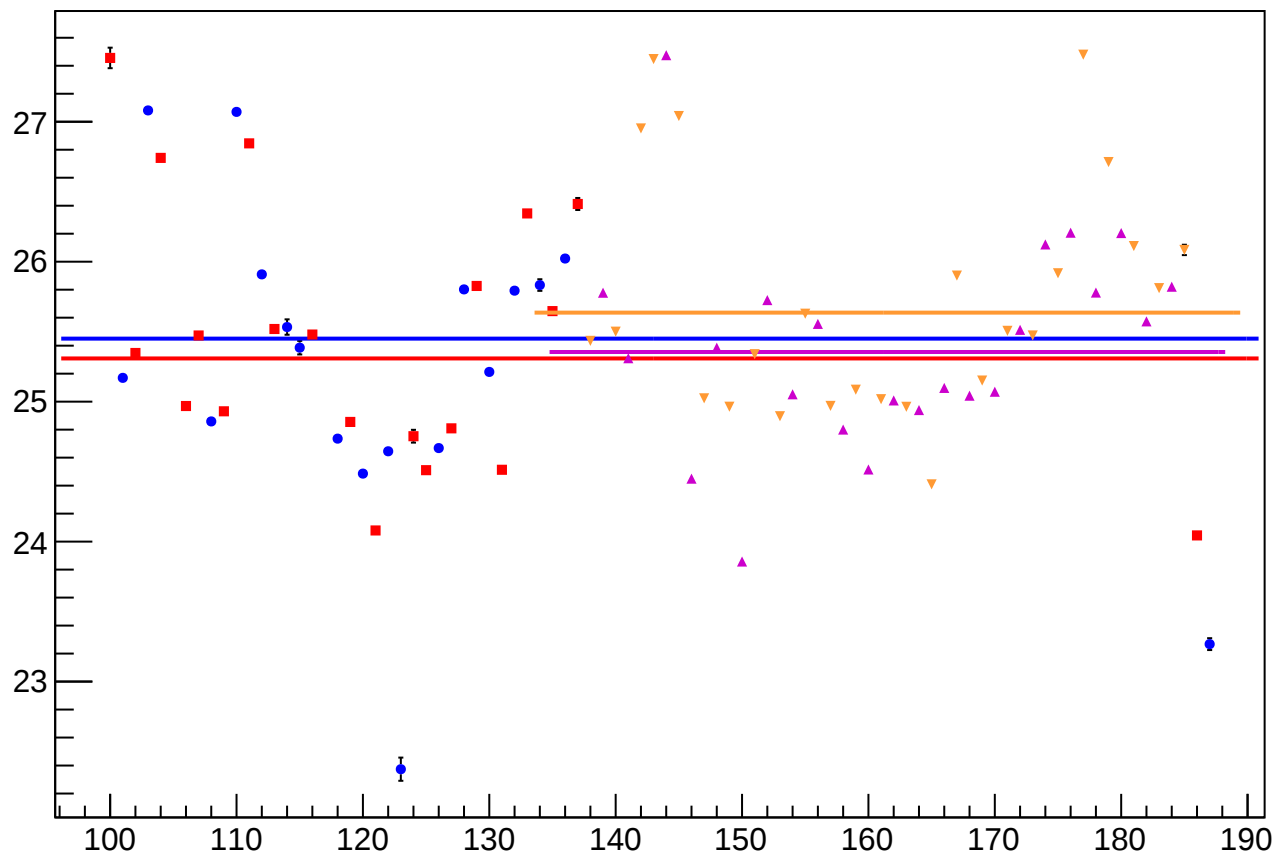
Right: 7.815 ± 6.718 χ^2/NDF : 36.5/37

In: 0.282 ± 5.157 χ^2/NDF : 42.6/40

Out: 6.154 ± 5.016 χ^2/NDF : 60.4/44

All: 3.299 ± 3.595 χ^2/NDF : 103.7/85

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.450 ± 0.007 $\chi^2/\text{NDF}: 16085.2/17$

Left Out: 25.636 ± 0.004 $\chi^2/\text{NDF}: 35130.7/24$

Right Out: 25.309 ± 0.007 $\chi^2/\text{NDF}: 15913.3/19$

Left In: 25.355 ± 0.004 $\chi^2/\text{NDF}: 29766.2/22$

Left: 25.498 ± 0.003 $\chi^2/\text{NDF}: 67081.3/47$

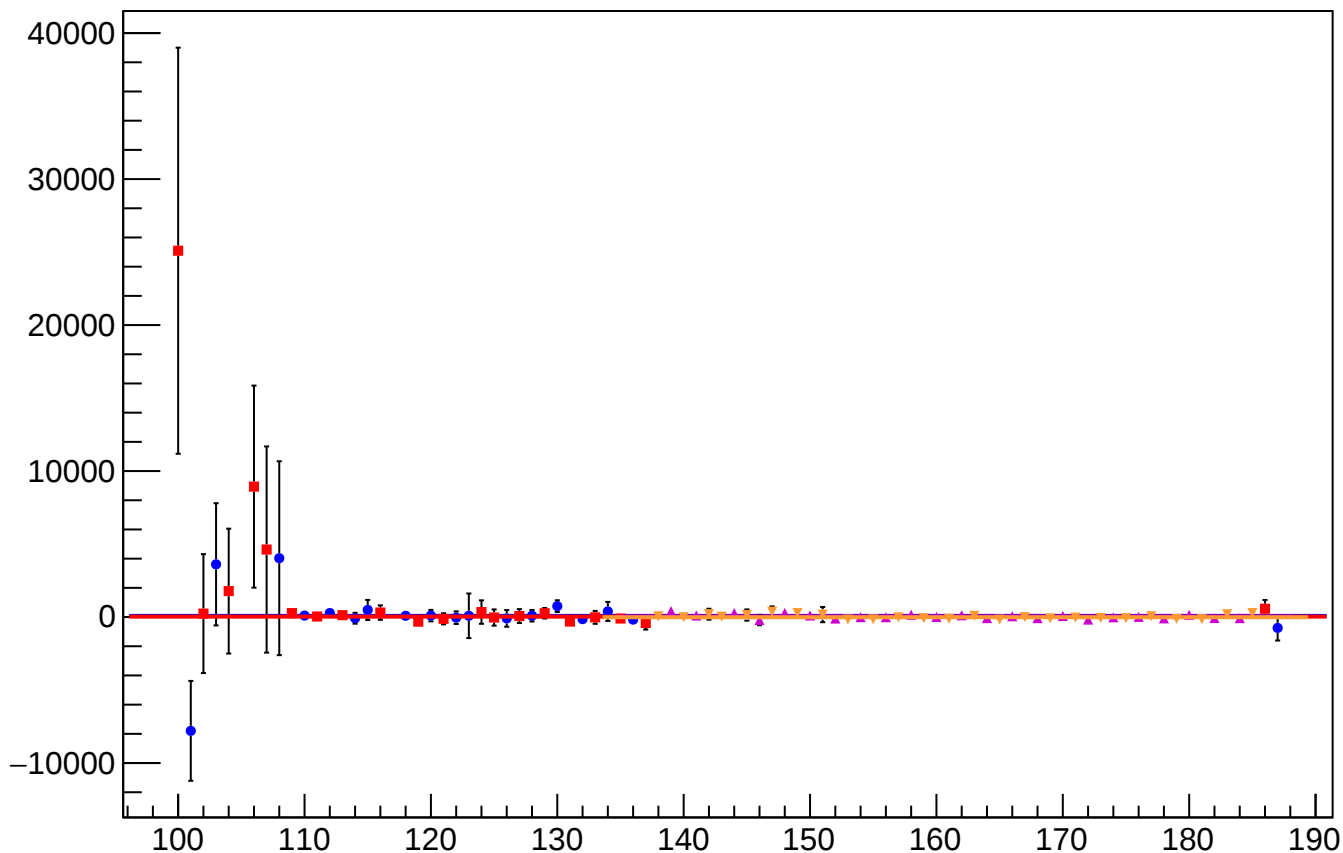
Right: 25.376 ± 0.005 $\chi^2/\text{NDF}: 32220.1/37$

In: 25.381 ± 0.004 $\chi^2/\text{NDF}: 45989.3/40$

Out: 25.540 ± 0.004 $\chi^2/\text{NDF}: 52814.1/44$

All: 25.463 ± 0.003 $\chi^2/\text{NDF}: 99773.6/85$

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: 29.470+/-80.239 χ^2/NDF : 12.8/19

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

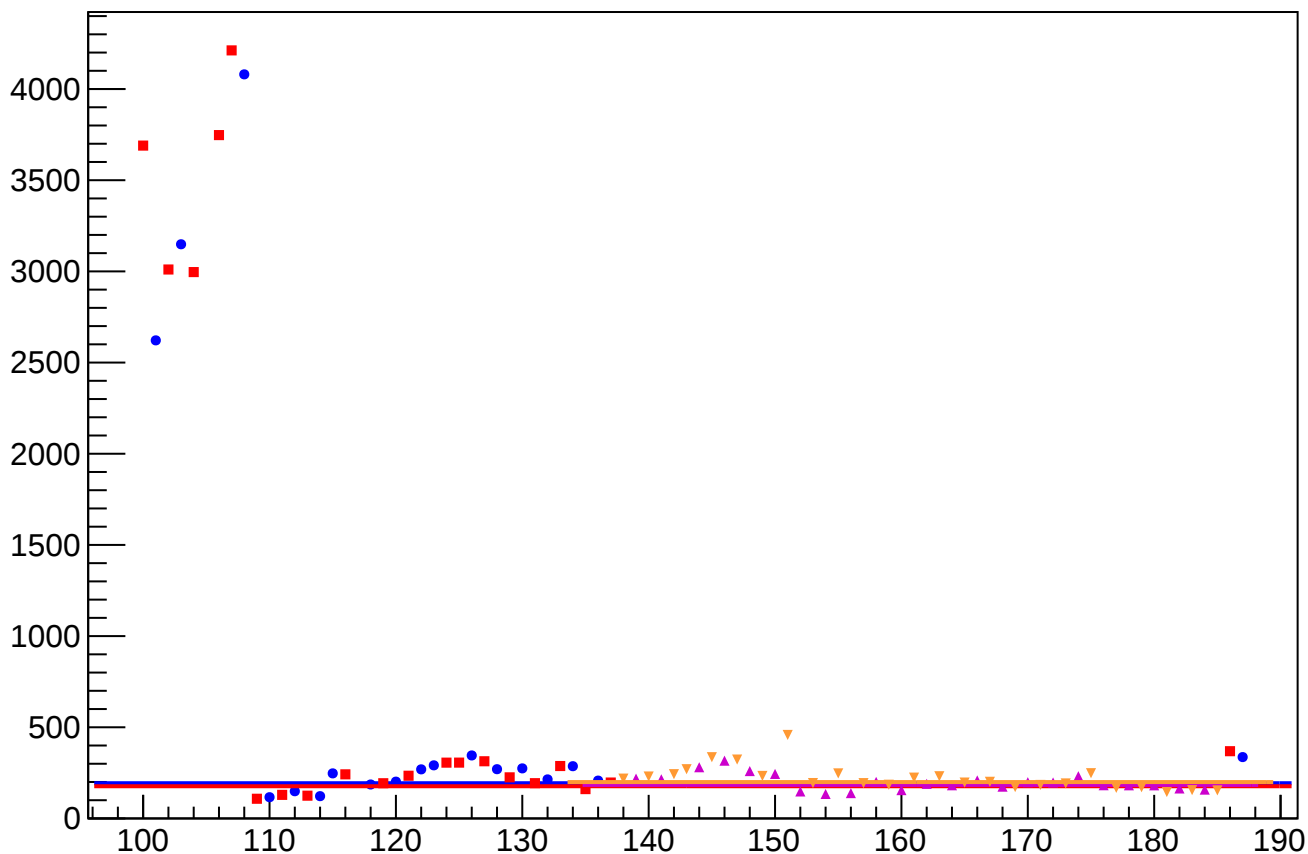
Right: 52.053+/-59.374 χ^2/NDF : 26.5/37

In: 38.011+/-40.706 χ^2/NDF : 21.2/40

Out: -1.601+/-41.329 χ^2/NDF : 20.9/44

All: 18.506+/-29.001 χ^2/NDF : 42.6/85

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: 176.612+/-0.057 χ^2/NDF : 4411616.6/19

Left In: 184.031+/-0.032 χ^2/NDF :1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

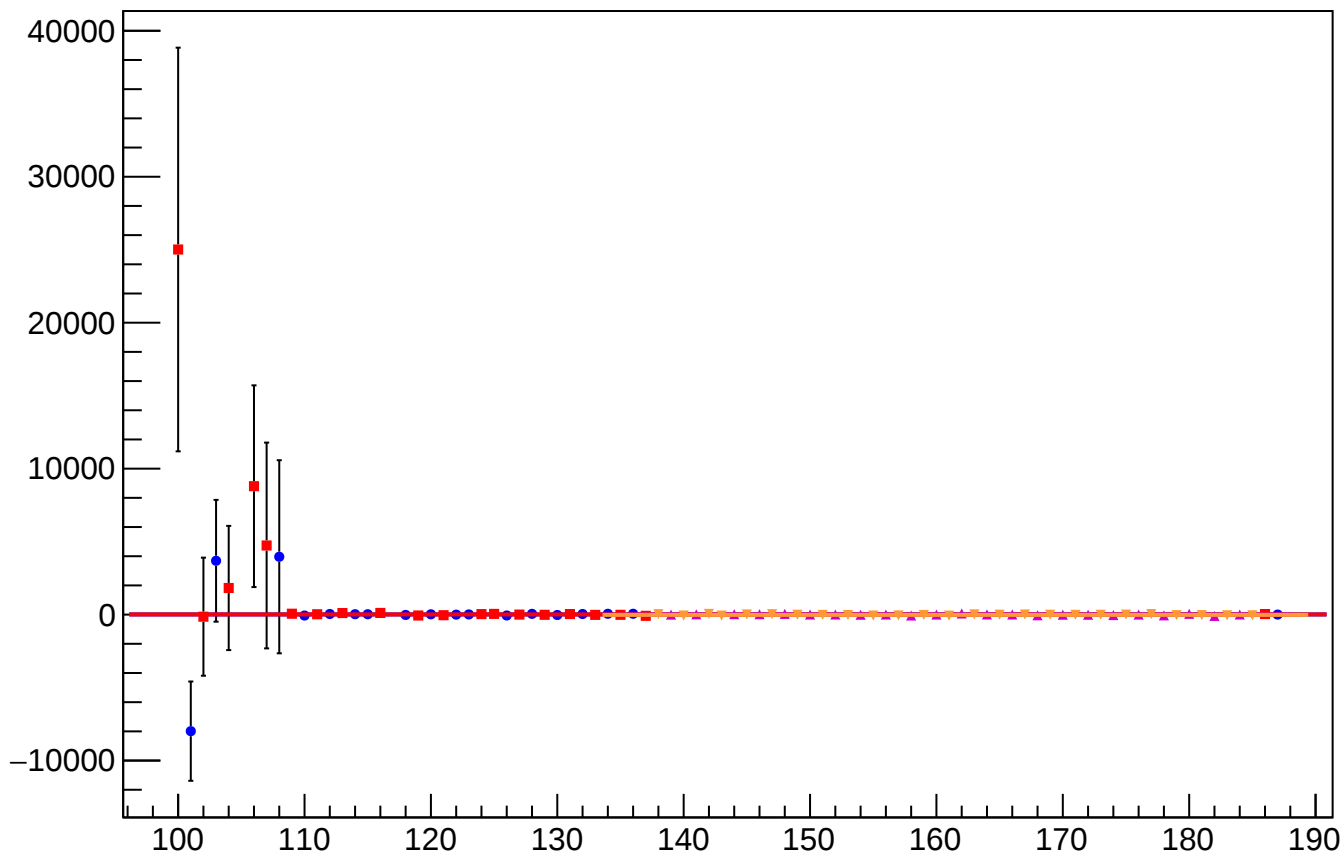
Right: 184.125+/-0.042 χ^2/NDF : 8081626.3/37

In: 185.985+/-0.029 χ^2/NDF :5071761.7/40

Out: 193.454+/-0.029 χ^2/NDF :6412099.8/44

All: 189.663+/-0.021 χ^2/NDF : 11517018.2/85

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: 13.005+/-11.943 χ^2/NDF : 24.5/19

Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

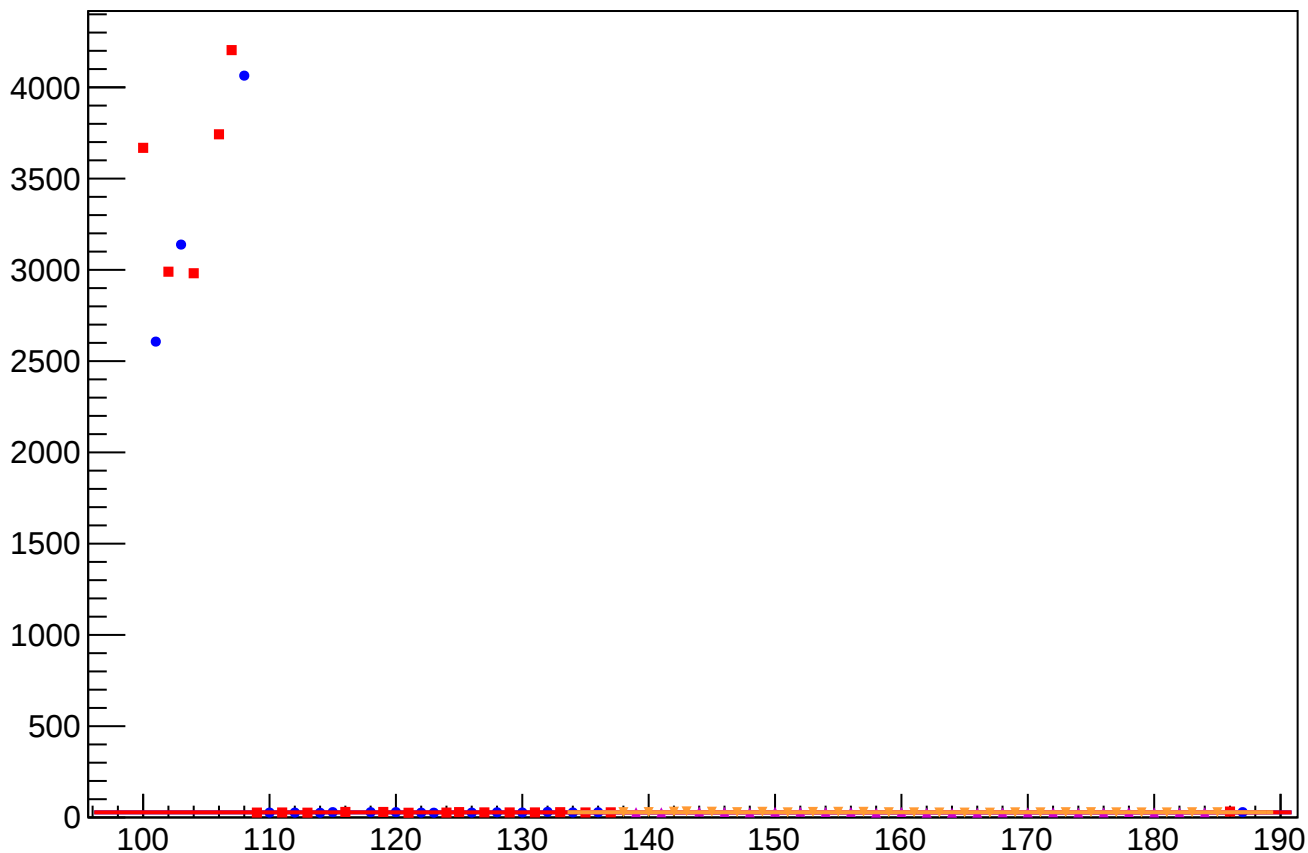
Right: 11.770+/-8.520 χ^2/NDF : 43.5/37

In: 3.330+/-5.988 χ^2/NDF : 51.8/40

Out: -10.269+/-5.839 χ^2/NDF : 51.8/44

All: -3.640+/-4.180 χ^2/NDF : 106.3/85

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: 27.951 $\pm$ 0.008 χ^2 /NDF: 3491056.4/19

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

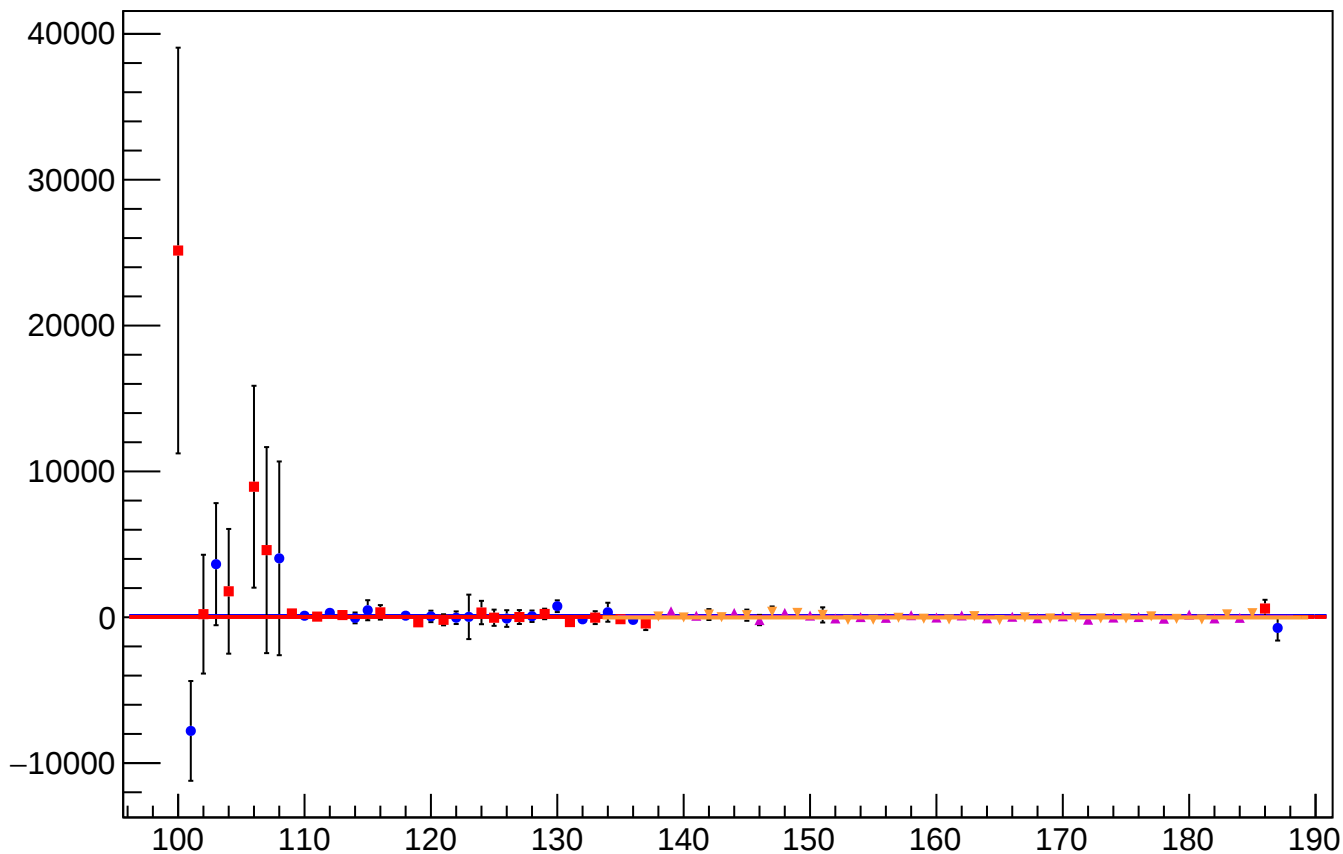
Right: 27.928 $\pm$ 0.006 χ^2 /NDF: 6519352.3/37

In: 28.486 $\pm$ 0.004 χ^2 /NDF: 3159080.9/40

Out: 28.514 $\pm$ 0.004 χ^2 /NDF: 3607384.0/44

All: 28.500 $\pm$ 0.003 χ^2 /NDF: 6766486.5/85

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: 20.154+/-79.986 χ^2/NDF : 13.7/19

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

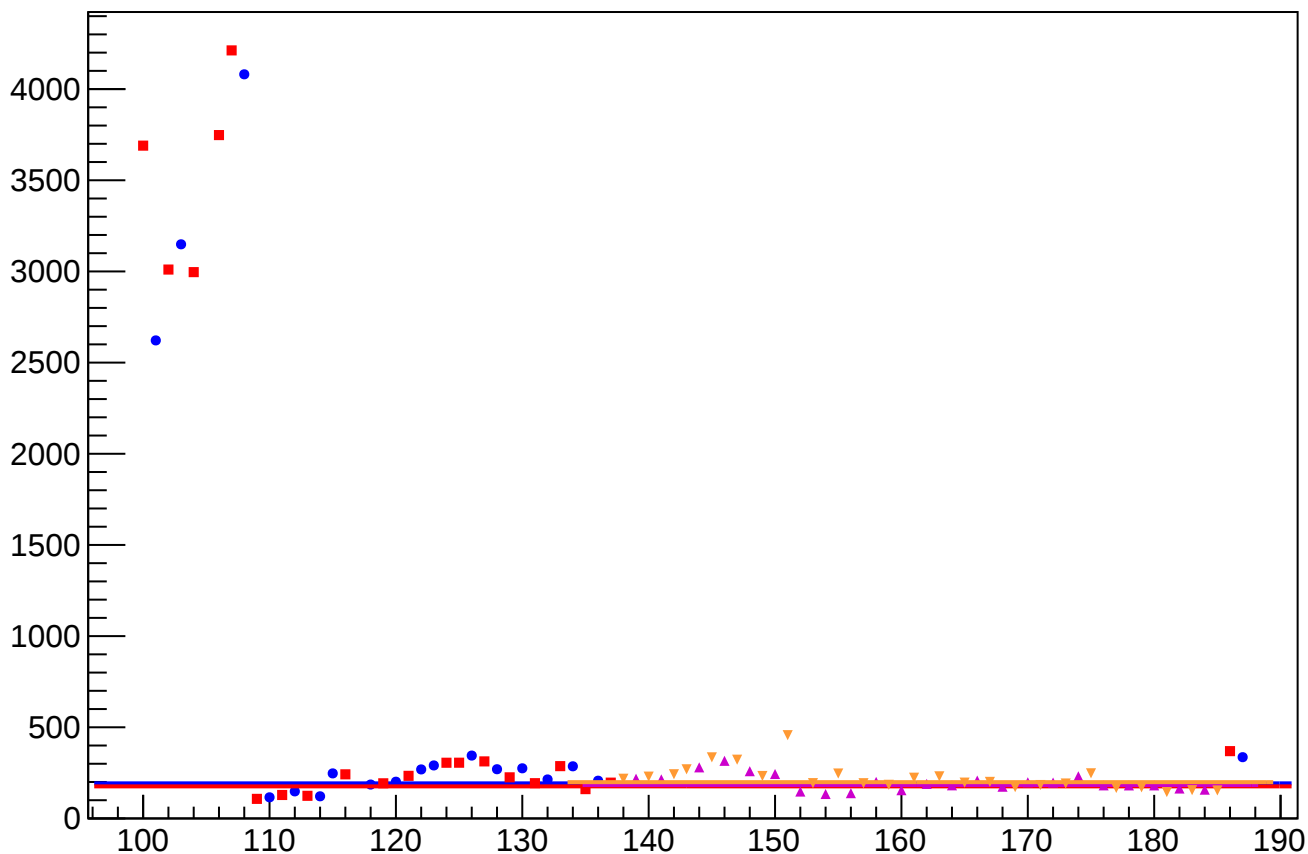
Right: 49.504+/-59.188 χ^2/NDF : 27.7/37

In: 39.370+/-40.616 χ^2/NDF : 21.8/40

Out: -6.015+/-41.226 χ^2/NDF : 22.6/44

All: 17.016+/-28.933 χ^2/NDF : 45.0/85

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: 175.934 $\pm$ 0.057 χ^2 /NDF: 4424659.7/19

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

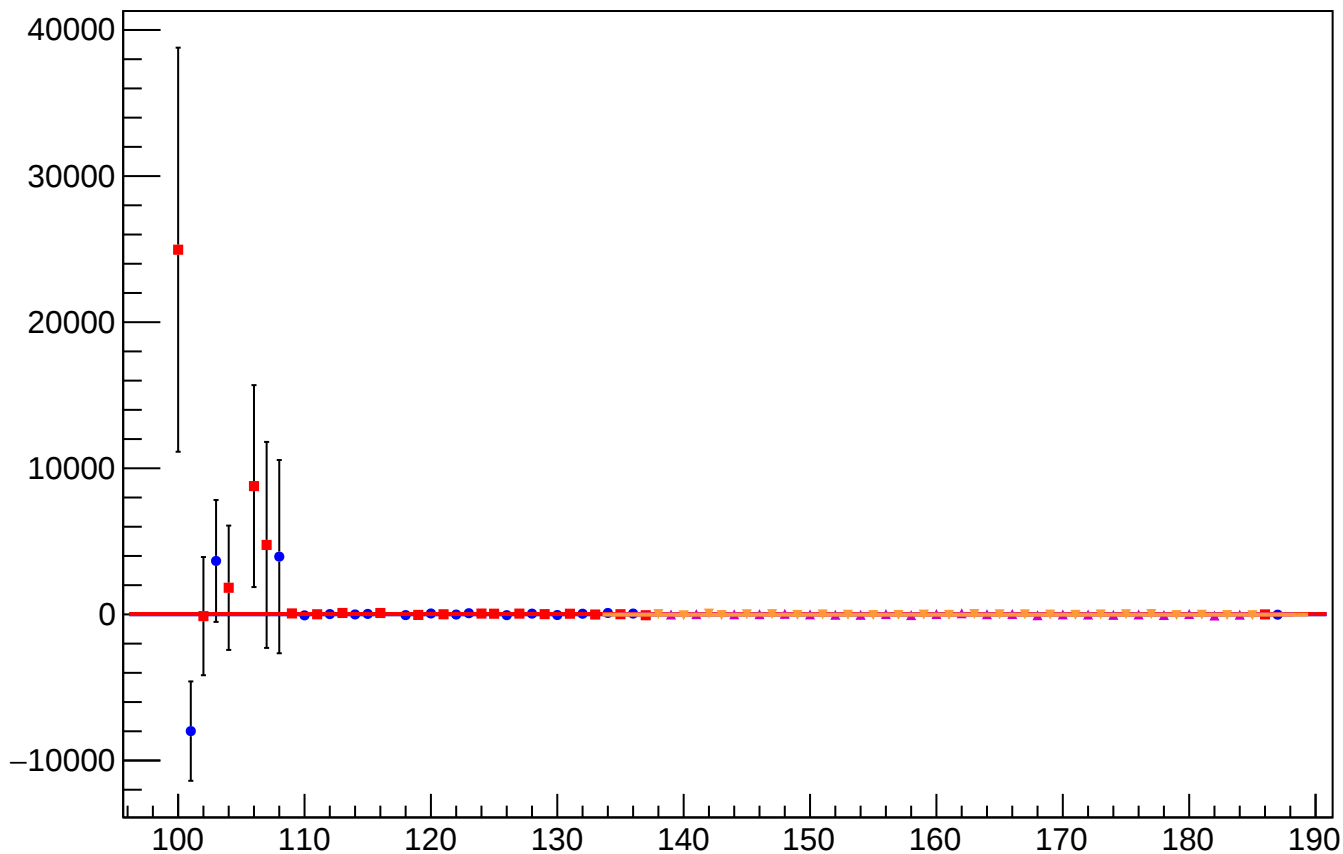
Right: 183.429 $\pm$ 0.042 χ^2 /NDF: 8106986.2/37

In: 185.549 $\pm$ 0.029 χ^2 /NDF:5082268.9/40

Out: 192.941 $\pm$ 0.029 χ^2 /NDF:6428130.6/44

All: 189.190 $\pm$ 0.020 χ^2 /NDF: 11543032.2/85

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.250 ± 12.237 $\chi^2/\text{NDF}: 23.0/17$

Left Out: -15.006 ± 6.723 $\chi^2/\text{NDF}: 17.5/24$

Right Out: 26.520 ± 12.016 $\chi^2/\text{NDF}: 16.8/19$

Left In: -0.702 ± 6.909 $\chi^2/\text{NDF}: 26.4/22$

Left: -8.049 ± 4.819 $\chi^2/\text{NDF}: 46.0/47$

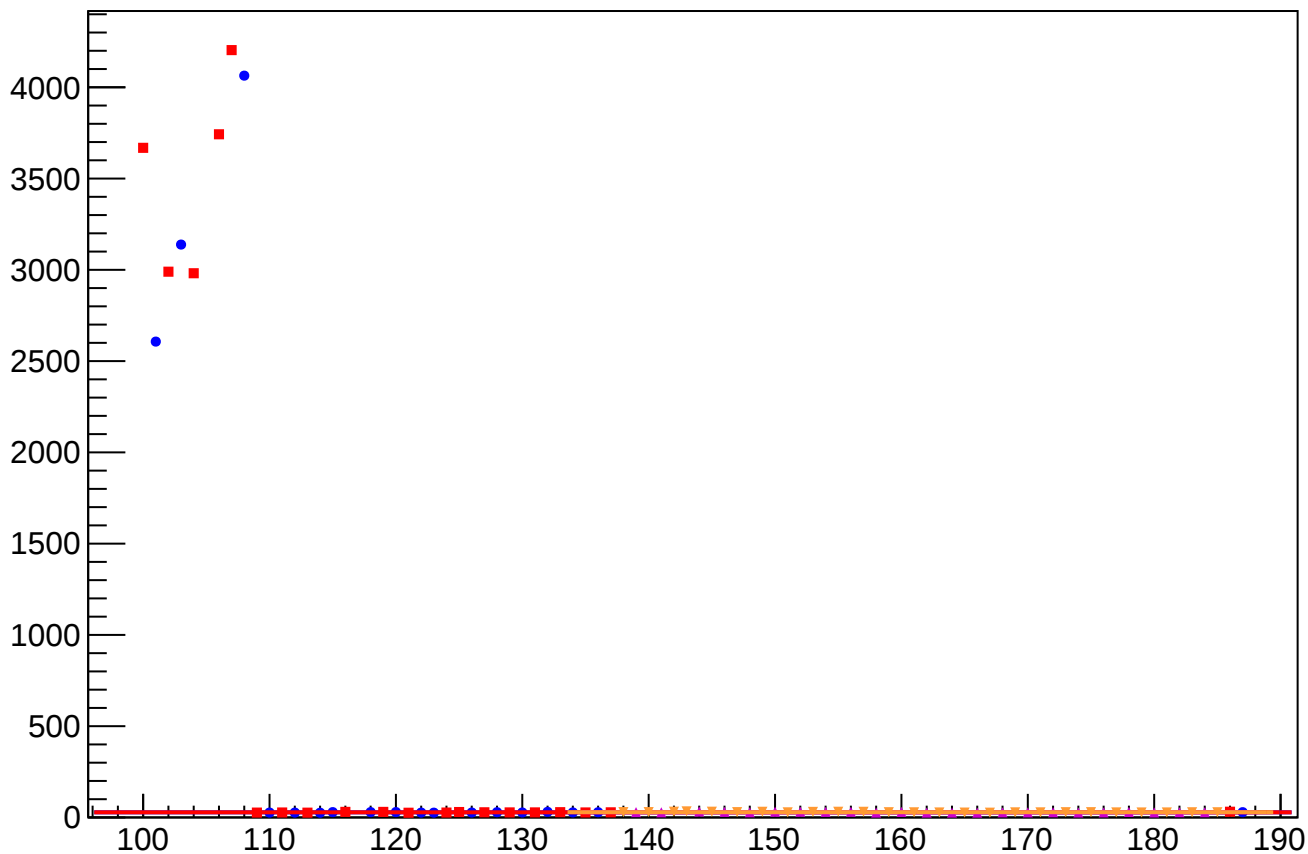
Right: 17.060 ± 8.574 $\chi^2/\text{NDF}: 41.1/37$

In: 1.220 ± 6.016 $\chi^2/\text{NDF}: 49.6/40$

Out: -5.105 ± 5.867 $\chi^2/\text{NDF}: 43.4/44$

All: -2.022 ± 4.201 $\chi^2/\text{NDF}: 93.6/85$

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: 28.126 $\pm$ 0.008 χ^2 /NDF: 3488271.9/19

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

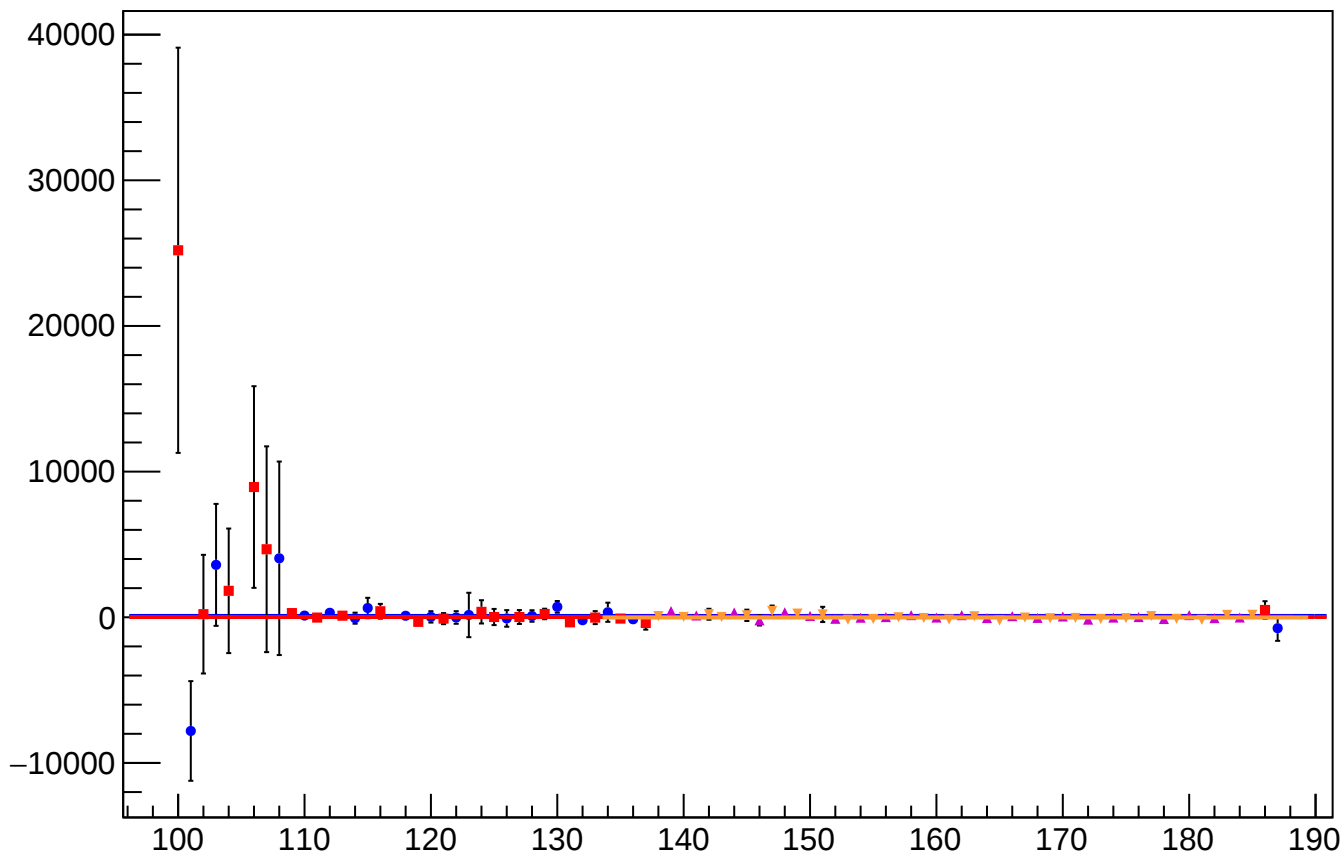
Right: 28.104 $\pm$ 0.006 χ^2 /NDF: 6516831.1/37

In: 28.621 $\pm$ 0.004 χ^2 /NDF: 3163058.1/40

Out: 28.649 $\pm$ 0.004 χ^2 /NDF: 3615224.5/44

All: 28.635 $\pm$ 0.003 χ^2 /NDF: 6778305.3/85

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 90.782+/-89.041 χ^2/NDF : 13.5/17

Left Out: -15.548+/-48.688 χ^2/NDF : 8.0/24

Right Out: 17.448+/-81.048 χ^2/NDF : 13.0/19

Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47

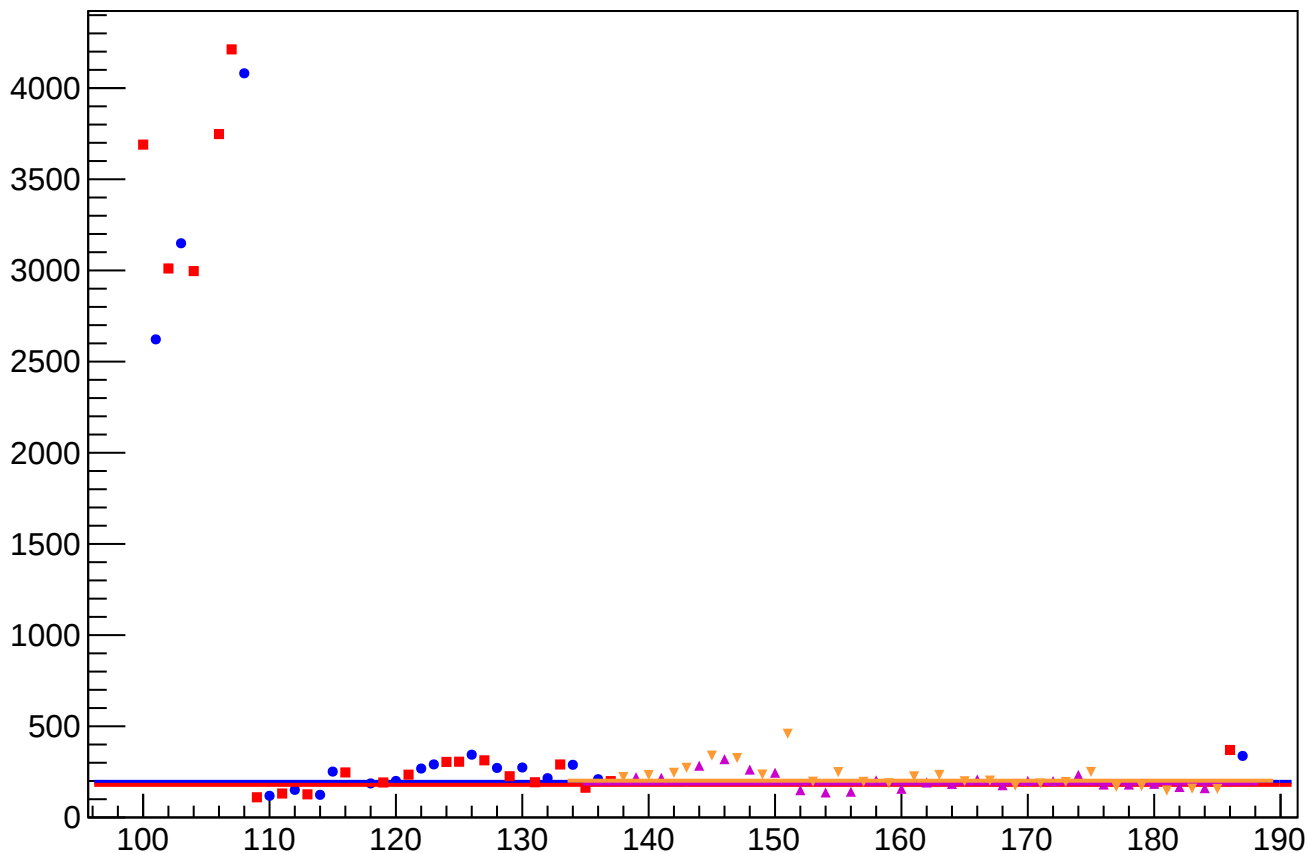
Right: 50.676+/-59.937 χ^2/NDF : 26.9/37

In: 43.883+/-41.120 χ^2/NDF : 22.0/40

Out: -6.798+/-41.736 χ^2/NDF : 21.1/44

All: 18.920+/-29.292 χ^2/NDF : 43.9/85

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: 178.850+/-0.057 χ^2/NDF : 4366792.7/19

Left In: 186.107+/-0.033 χ^2/NDF : 1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

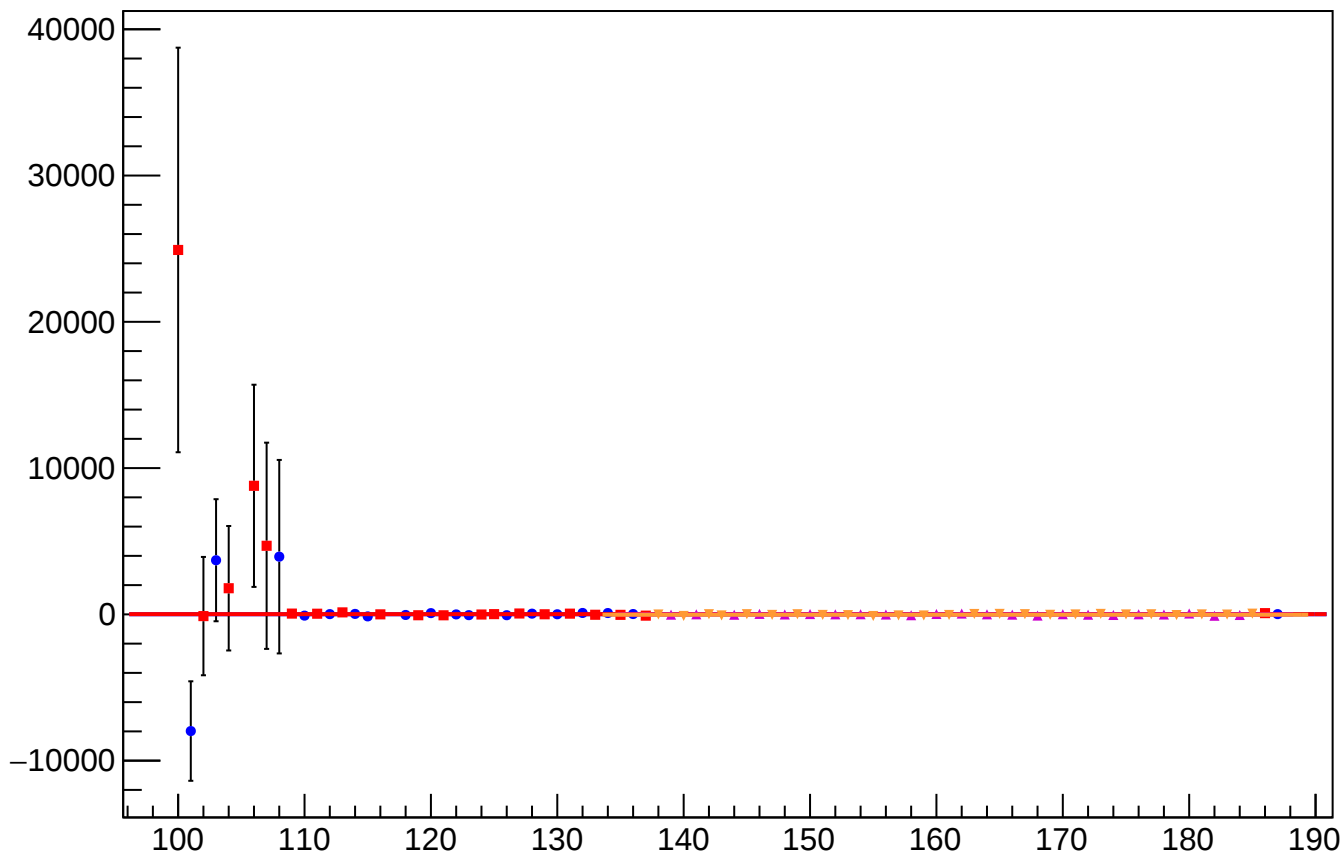
Right: 186.285+/-0.042 χ^2/NDF : 7998177.2/37

In: 188.059+/-0.029 χ^2/NDF : 5002187.6/40

Out: 195.567+/-0.030 χ^2/NDF : 6340043.5/44

All: 191.757+/-0.021 χ^2/NDF : 11375076.4/85

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.237 $\pm$ 14.888 χ^2 /NDF: 20.2/17

Left Out: -23.360 $\pm$ 8.064 χ^2 /NDF:25.8/24

Right Out: 15.565 $\pm$ 14.553 χ^2 /NDF: 22.9/19

Left In: -6.001 $\pm$ 8.309 χ^2 /NDF:21.1/22

Left: -14.939 $\pm$ 5.787 χ^2 /NDF: 49.2/47

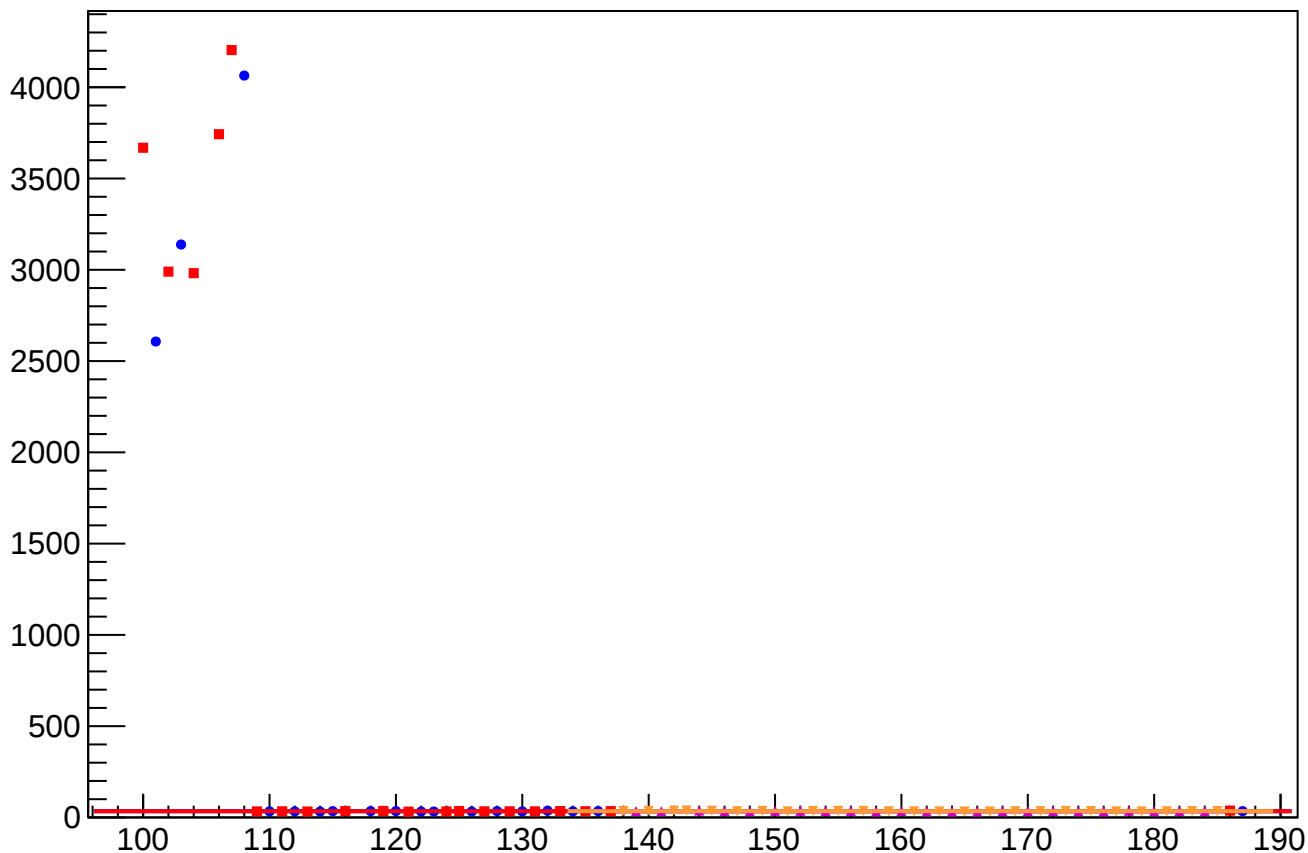
Right: 11.495 $\pm$ 10.407 χ^2 /NDF: 43.2/37

In: -2.857 $\pm$ 7.255 χ^2 /NDF:42.0/40

Out: -14.215 $\pm$ 7.054 χ^2 /NDF:54.1/44

All: -8.696 $\pm$ 5.057 χ^2 /NDF: 97.4/85

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.206 $\pm$ 0.011 χ^2 /NDF: 3006478.2/17

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 34.131 $\pm$ 0.010 χ^2 /NDF: 3458014.1/19

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

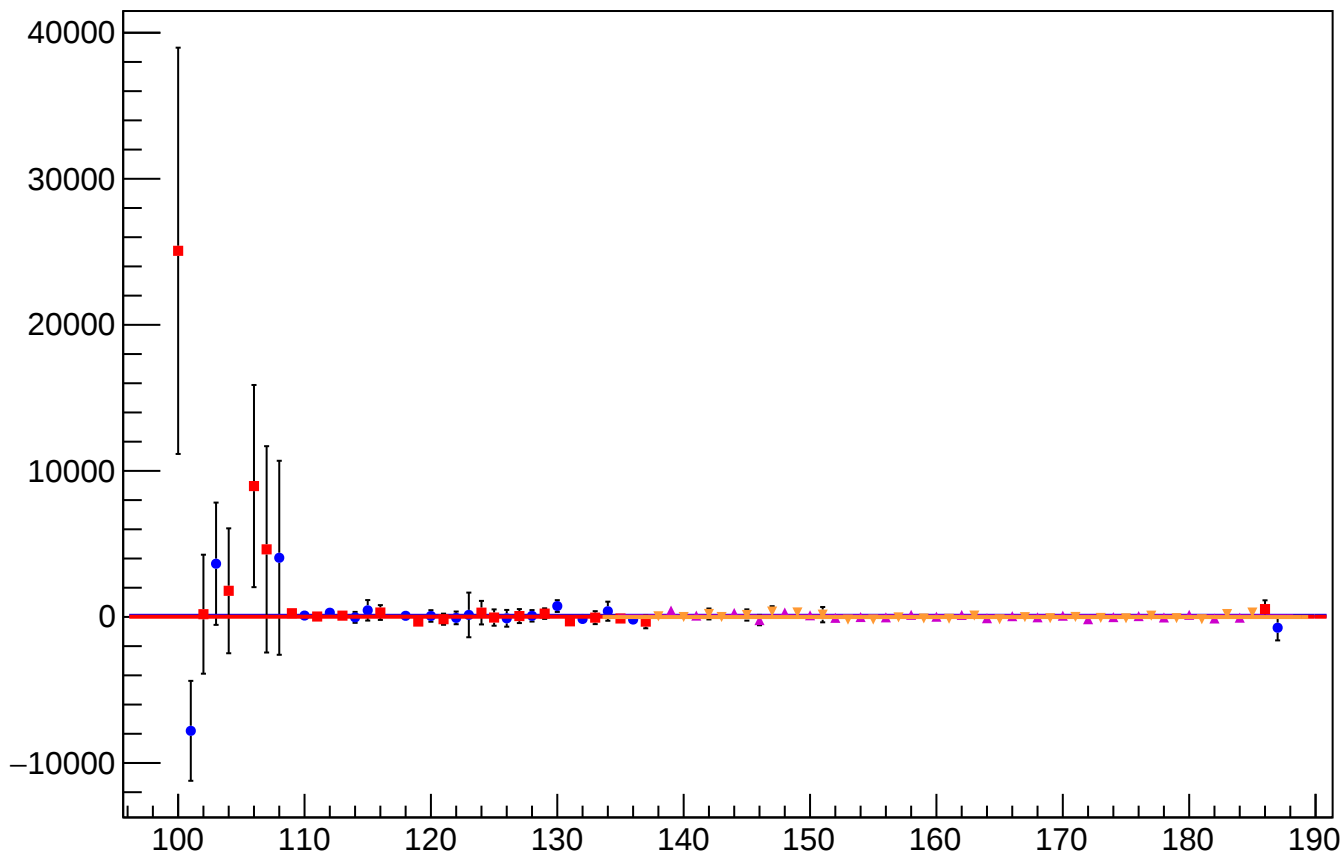
Right: 34.168 $\pm$ 0.007 χ^2 /NDF: 6464518.4/37

In: 34.571 $\pm$ 0.005 χ^2 /NDF: 3068371.9/40

Out: 34.501 $\pm$ 0.005 χ^2 /NDF: 3517649.2/44

All: 34.535 $\pm$ 0.004 χ^2 /NDF: 6586118.2/85

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 78.432 $\pm$ 88.594 χ^2 /NDF: 13.4/17

Left Out: -8.916 $\pm$ 48.615 χ^2 /NDF:8.6/24

Right Out: 14.697 $\pm$ 80.544 χ^2 /NDF: 11.9/19

Left In: 34.127 $\pm$ 46.296 χ^2 /NDF:7.4/22

Left: 13.656 $\pm$ 33.526 χ^2 /NDF: 16.5/47

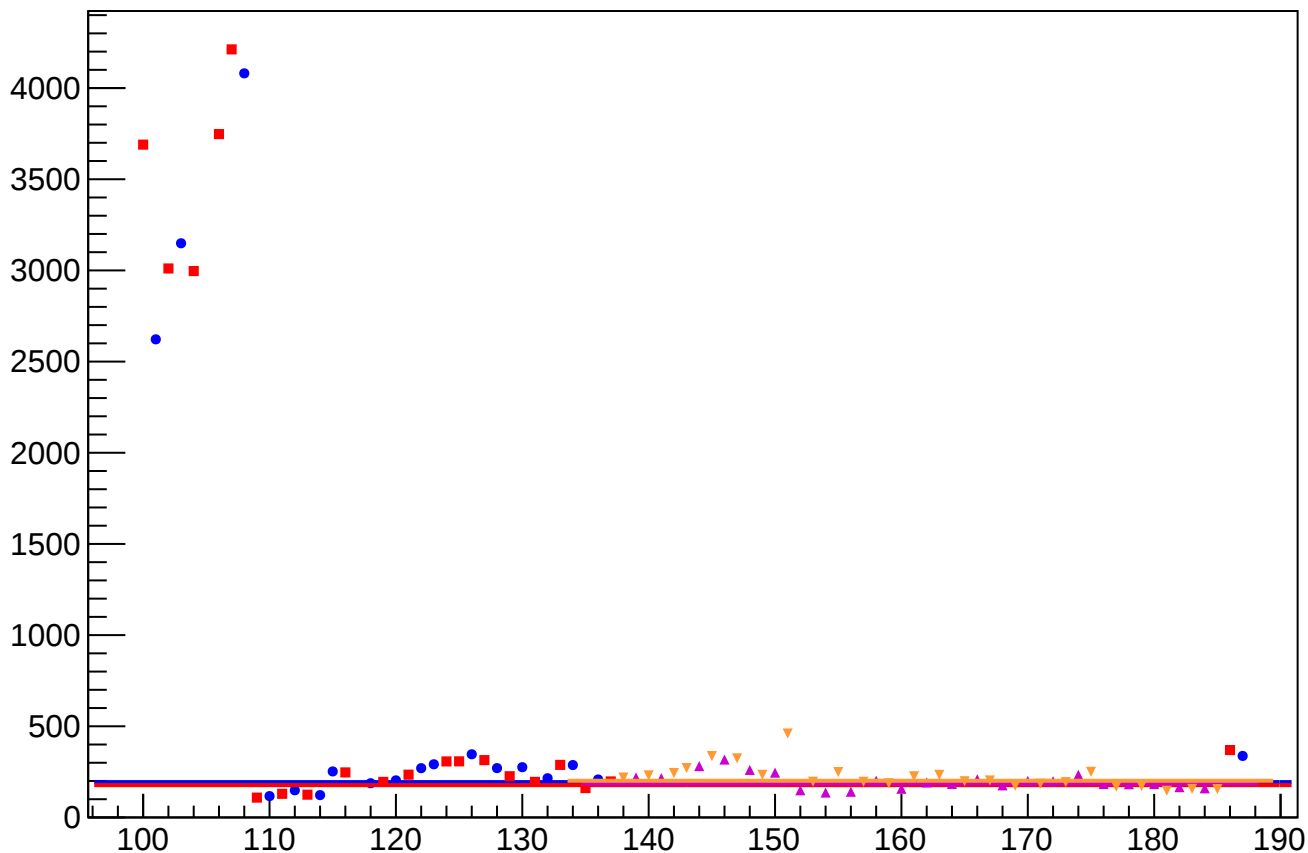
Right: 43.538 $\pm$ 59.596 χ^2 /NDF: 25.6/37

In: 43.631 $\pm$ 41.032 χ^2 /NDF:21.0/40

Out: -2.611 $\pm$ 41.621 χ^2 /NDF:20.6/44

All: 20.840 $\pm$ 29.220 χ^2 /NDF: 42.2/85

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: 177.292+/-0.057 χ^2/NDF : 4415318.7/19

Left In: 185.854+/-0.033 χ^2/NDF : 1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

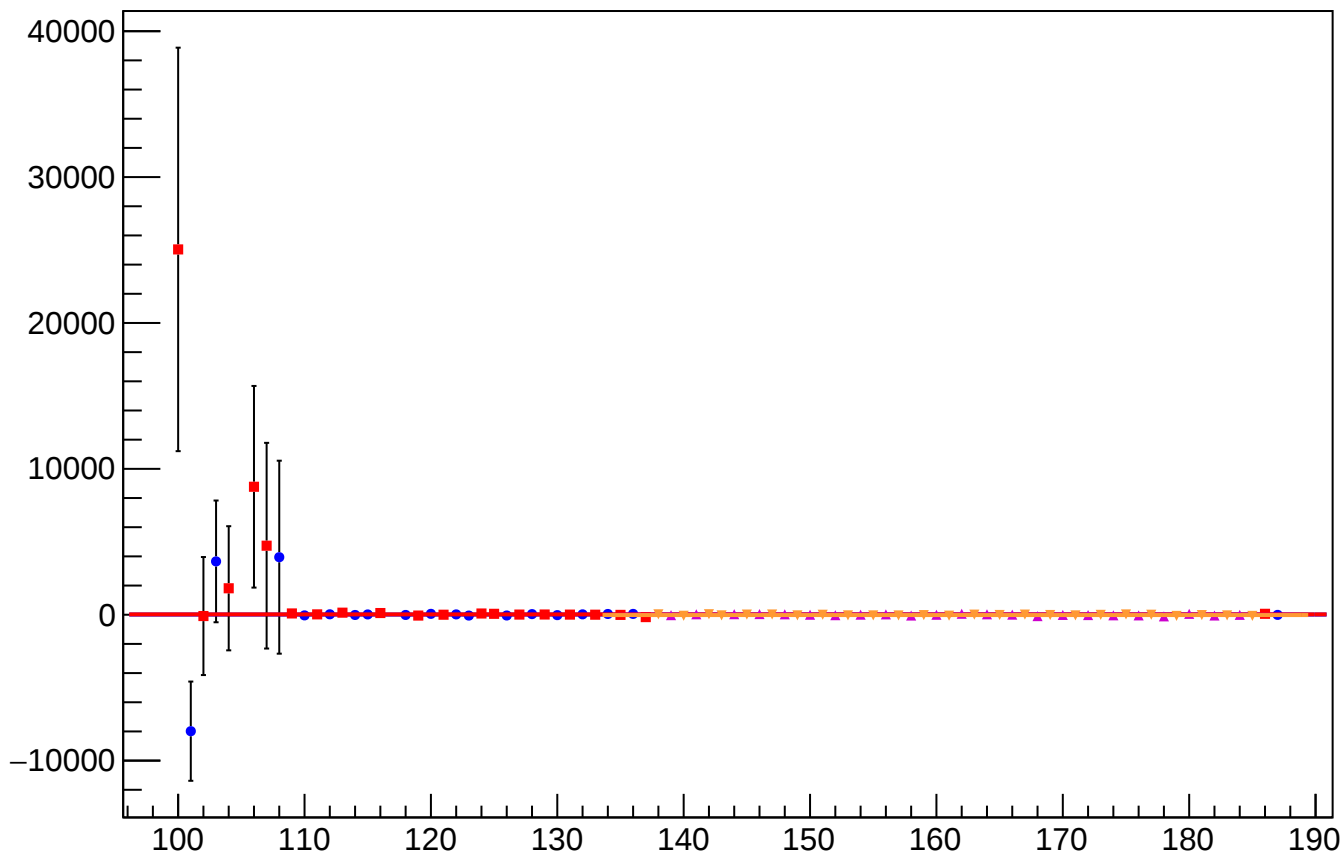
Right: 184.819+/-0.042 χ^2/NDF : 8086946.0/37

In: 187.585+/-0.029 χ^2/NDF : 5027840.2/40

Out: 194.886+/-0.029 χ^2/NDF : 6396660.4/44

All: 191.184+/-0.021 χ^2/NDF : 11455710.6/85

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.701+/-13.575 χ^2/NDF : 14.6/17

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 24.427+/-13.308 χ^2/NDF : 28.4/19

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

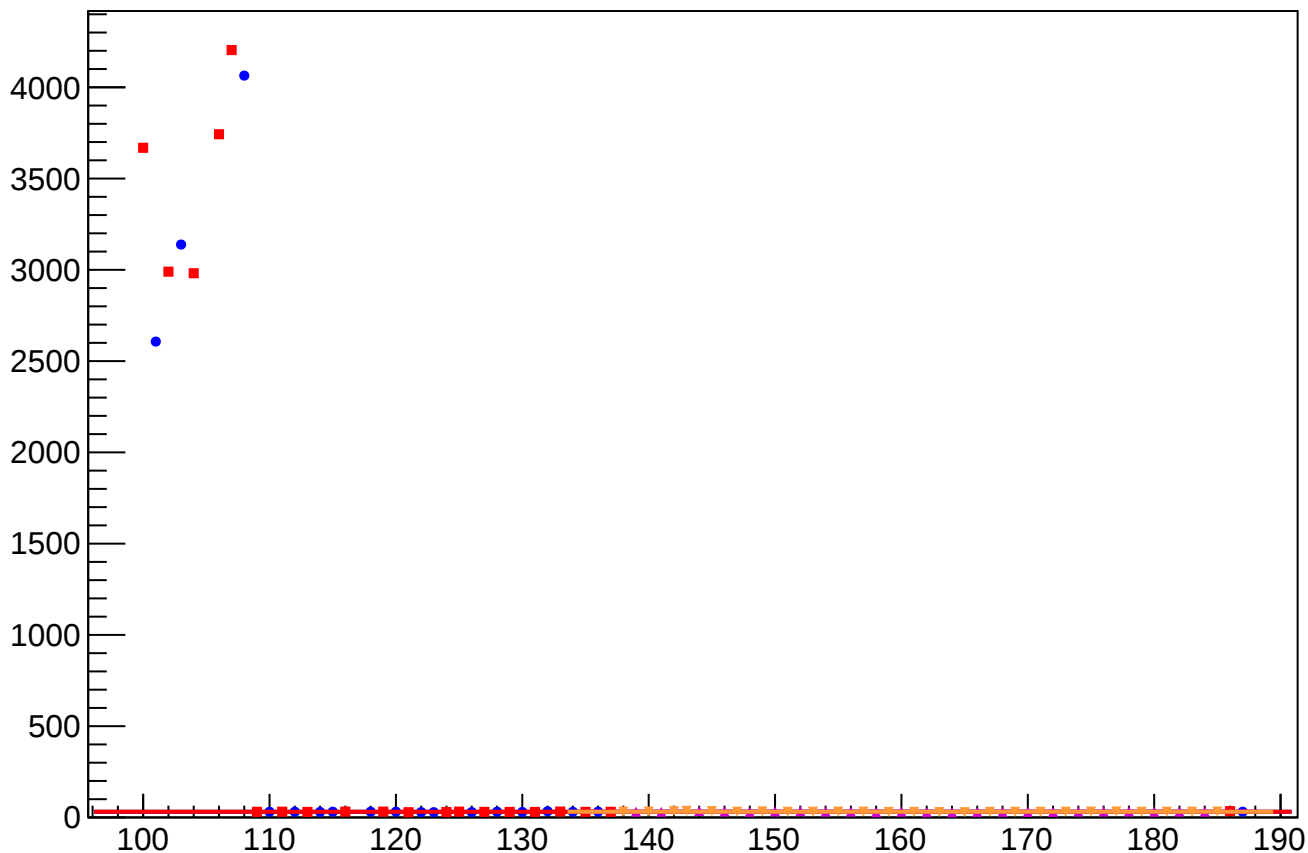
Right: 18.191+/-9.503 χ^2/NDF : 43.4/37

In: -1.775+/-6.598 χ^2/NDF : 54.2/40

Out: -11.844+/-6.427 χ^2/NDF : 56.8/44

All: -6.941+/-4.604 χ^2/NDF : 112.3/85

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.189+/-0.010 χ^2/NDF : 3014256.7/17

Left Out: 31.482+/-0.005 χ^2/NDF : 82437.2/24

Right Out: 31.187+/-0.009 χ^2/NDF : 3466620.4/19

Left In: 31.484+/-0.005 χ^2/NDF : 87981.1/22

Left: 31.483+/-0.004 χ^2/NDF : 170418.5/47

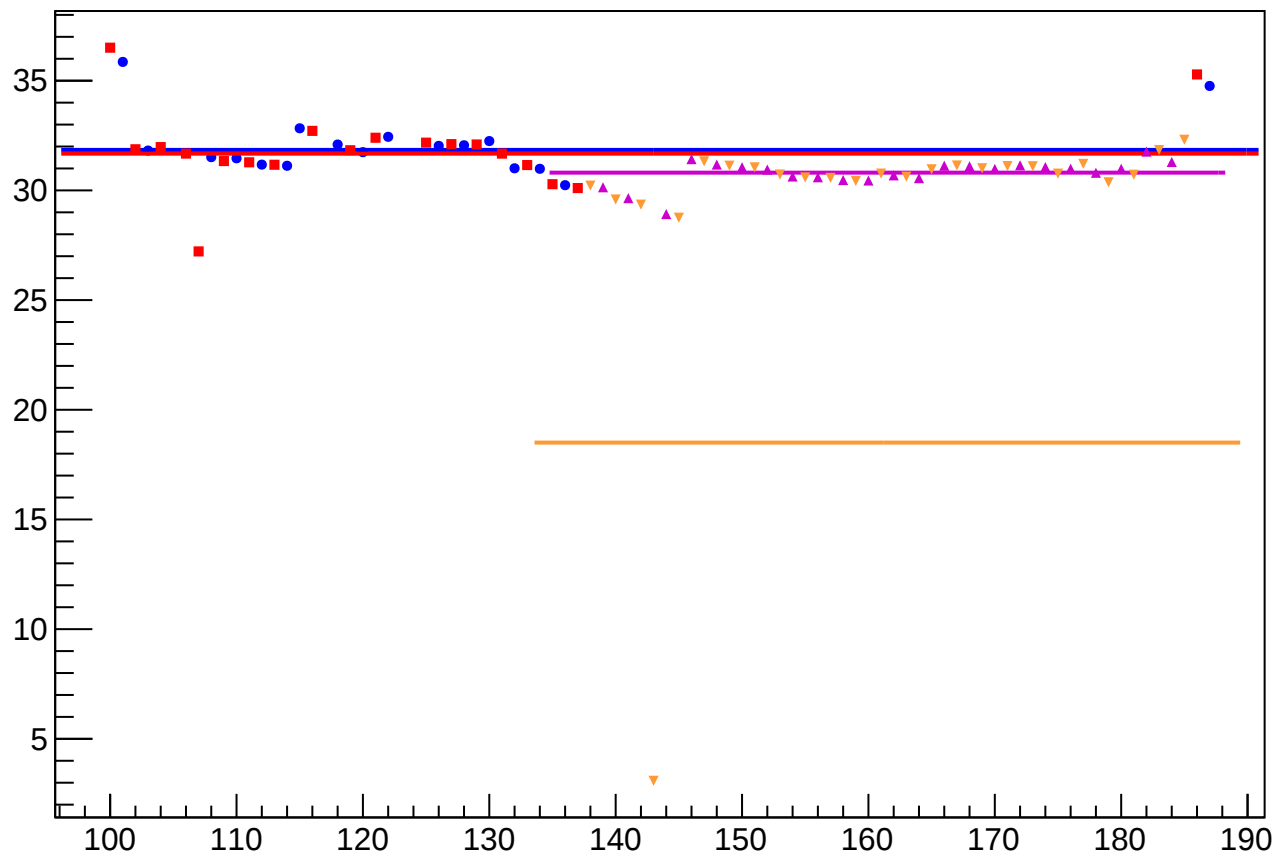
Right: 31.188+/-0.007 χ^2/NDF : 6480877.2/37

In: 31.415+/-0.005 χ^2/NDF : 3102960.9/40

Out: 31.413+/-0.005 χ^2/NDF : 3549808.7/44

All: 31.414+/-0.003 χ^2/NDF : 6652769.7/85

yield_usl_mean vs Slug, Sign Corrected



Right In: 31.846+/-0.000 χ^2/NDF : 1619850218.9/16

Left Out: 18.505+/-0.000 χ^2/NDF : 940607632746.3/24

Right Out: 31.675+/-0.000 χ^2/NDF : 1041343497.4/18

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 22.806+/-0.000 χ^2/NDF : 1203928236724.3/47

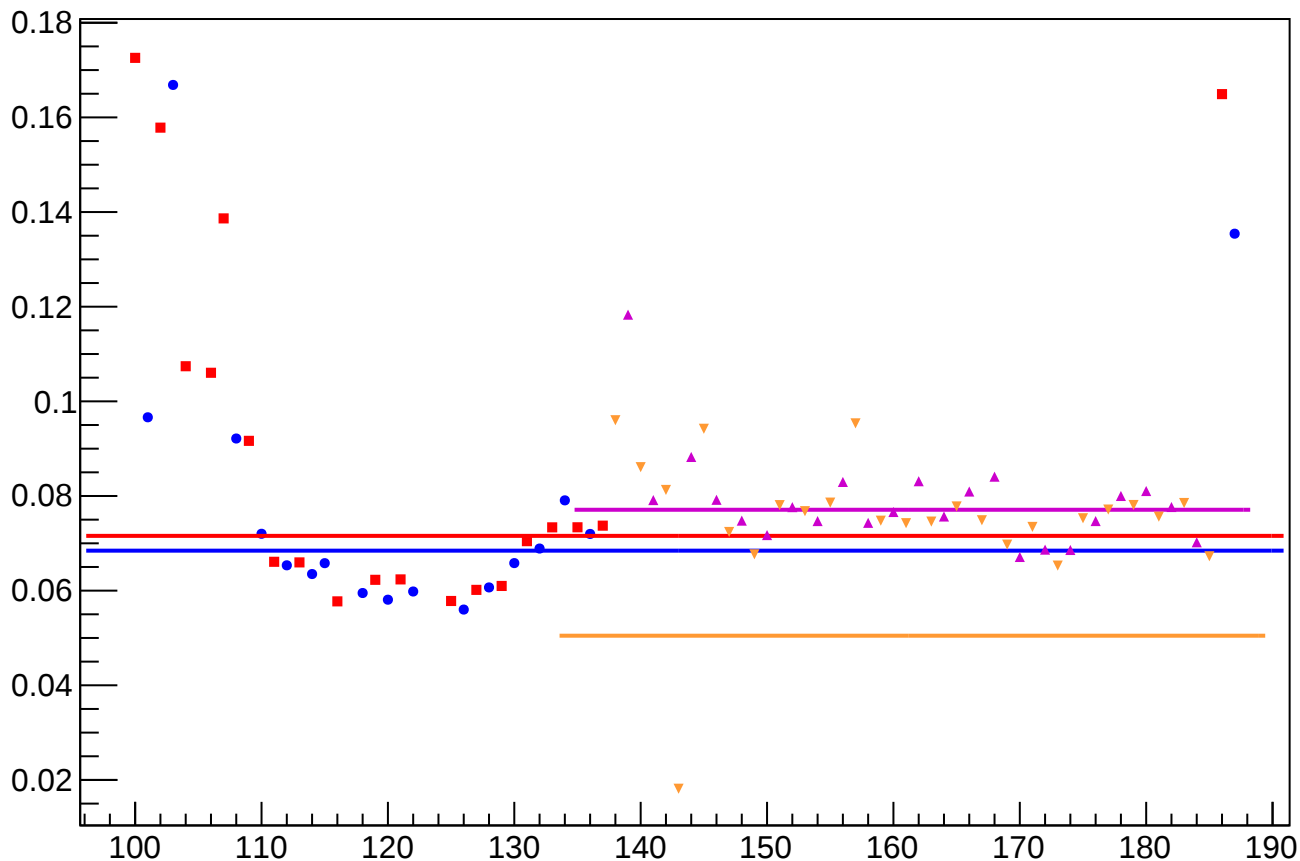
Right: 31.762+/-0.000 χ^2/NDF : 2679204863.6/35

In: 31.140+/-0.000 χ^2/NDF : 3357501882.2/39

Out: 21.070+/-0.000 χ^2/NDF : 1109192025768.3/43

All: 24.985+/-0.000 χ^2/NDF : 1355383356971

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: 0.072 $\pm$ 0.000 χ^2 /NDF: 1080023.3/18

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

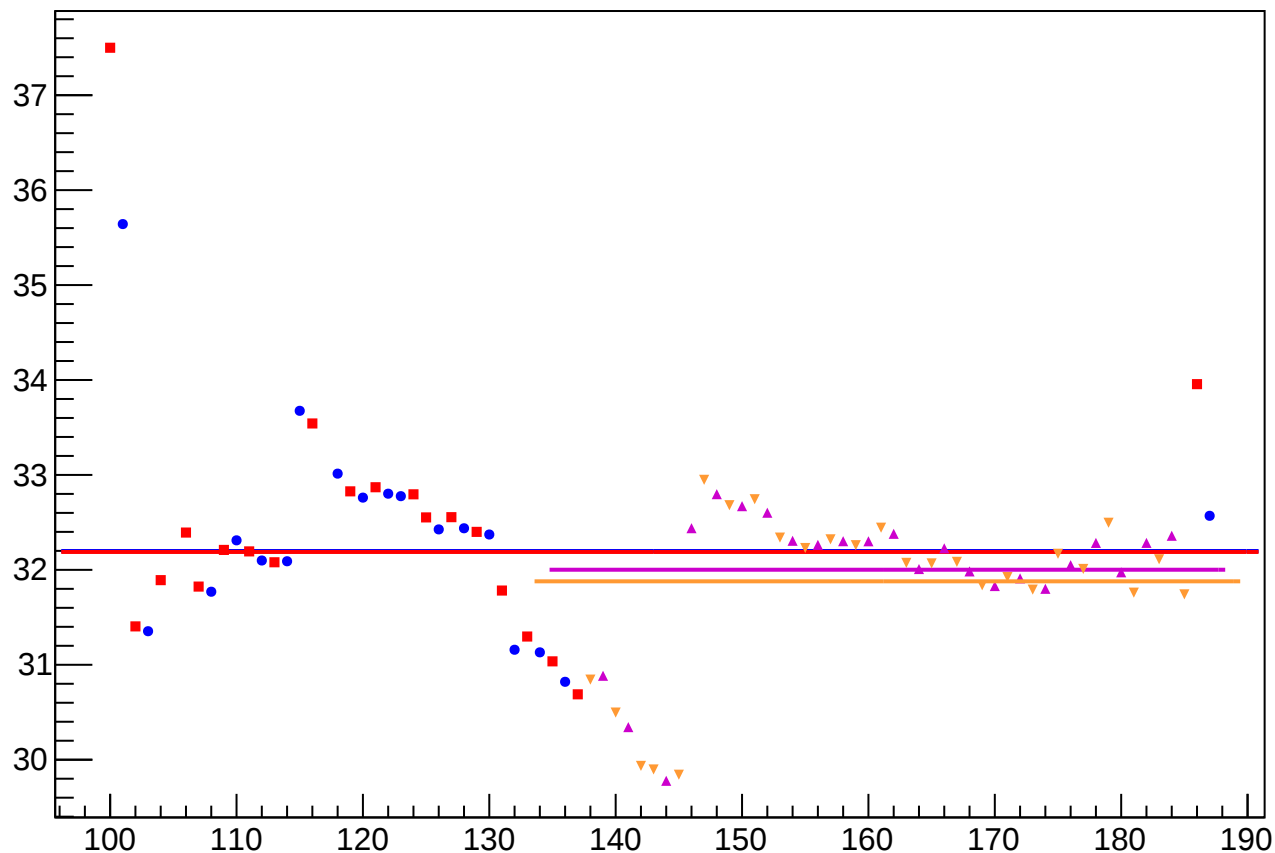
Right: 0.070 $\pm$ 0.000 χ^2 /NDF: 1794458.5/35

In: 0.074 $\pm$ 0.000 χ^2 /NDF:1155504.1/39

Out: 0.055 $\pm$ 0.000 χ^2 /NDF:10483575.8/43

All: 0.062 $\pm$ 0.000 χ^2 /NDF: 13505701.3/83

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: 32.189 ± 0.000 χ^2/NDF : 488251155.6/19

Left In: 32.001 ± 0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939 ± 0.000 χ^2/NDF : 3408370857.8/47

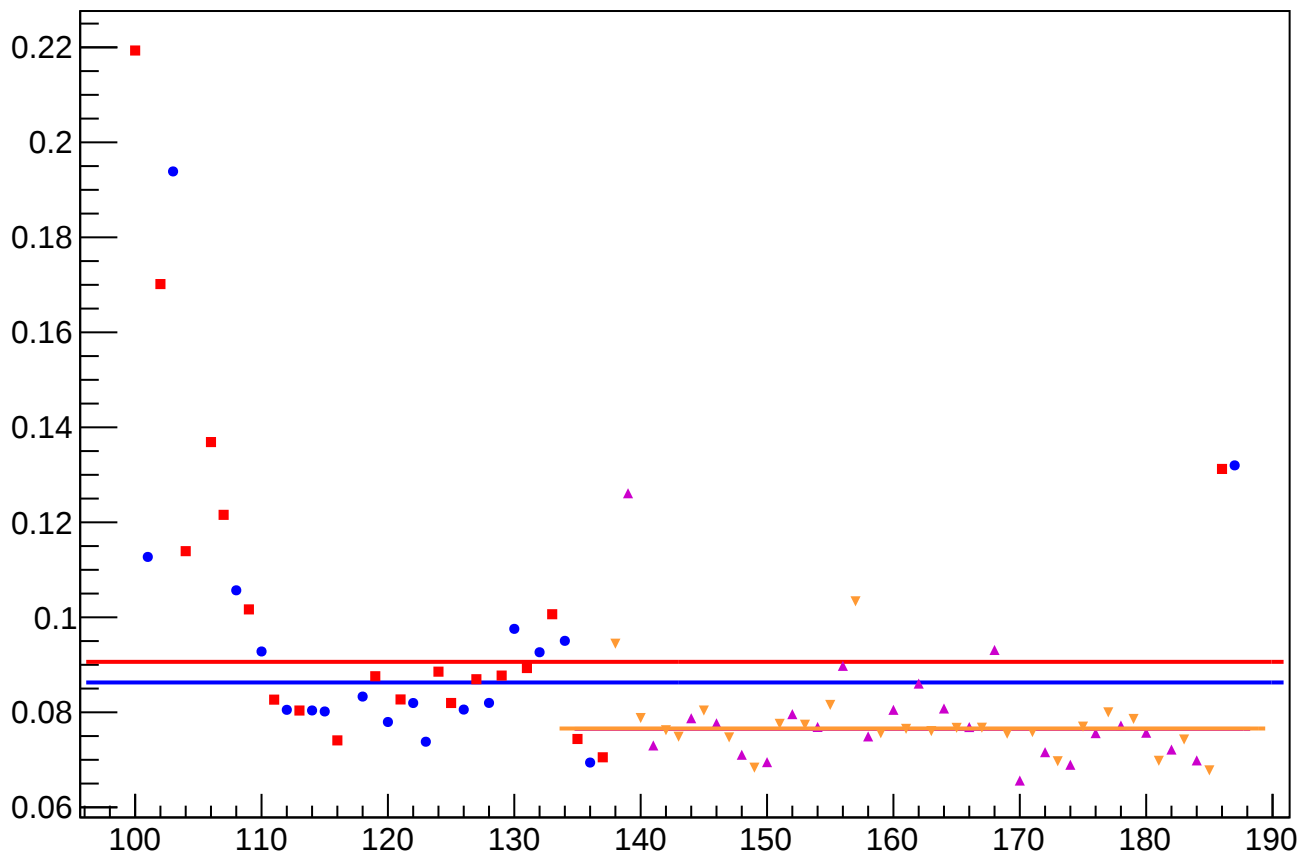
Right: 32.194 ± 0.000 χ^2/NDF : 1491425817.0/37

In: 32.045 ± 0.000 χ^2/NDF : 2438153713.8/40

Out: 31.945 ± 0.000 χ^2/NDF : 2523554017.4/44

All: 31.995 ± 0.000 χ^2/NDF : 4979711279.9/8

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: 0.091+/-0.000 χ^2/NDF : 609663.0/19

Left In: 0.076+/-0.000 χ^2/NDF : 432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

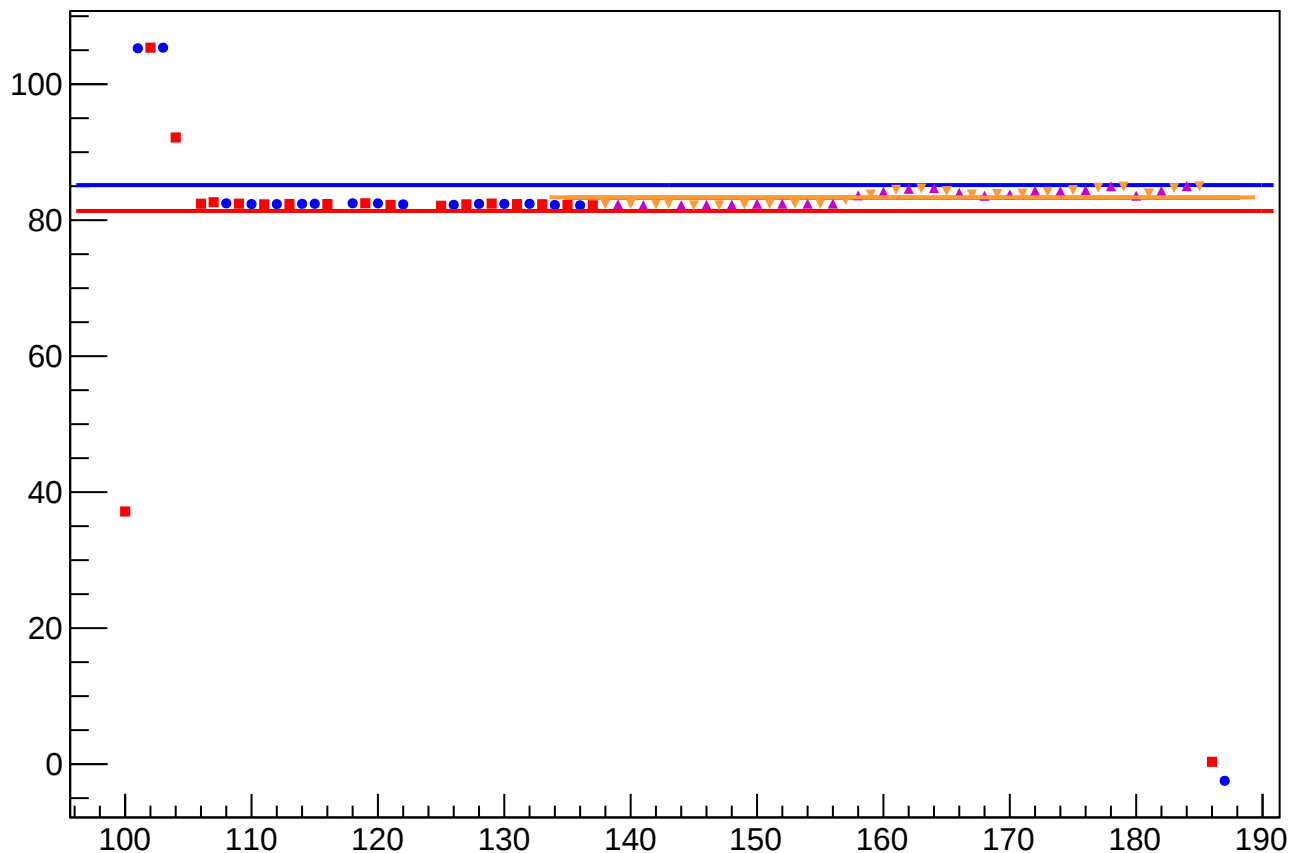
Right: 0.088+/-0.000 χ^2/NDF : 1213555.3/37

In: 0.079+/-0.000 χ^2/NDF : 1139424.5/40

Out: 0.080+/-0.000 χ^2/NDF : 1062276.5/44

All: 0.079+/-0.000 χ^2/NDF : 2204674.3/85

yield_dsl_mean vs Slug, Sign Corrected



Left: 83.332 $\pm$ 0.000 χ^2/NDF : 17572666767.1/47

Right: 83.195 $\pm$ 0.000 χ^2/NDF : 2106635699203.3/3

In: 83.890 $\pm$ 0.000 χ^2/NDF : 746154240147.1/39

Out: 82.717 $\pm$ 0.000 χ^2/NDF : 1369597448929.6/43

All: 83.289 $\pm$ 0.000 χ^2/NDF : 2124308967820

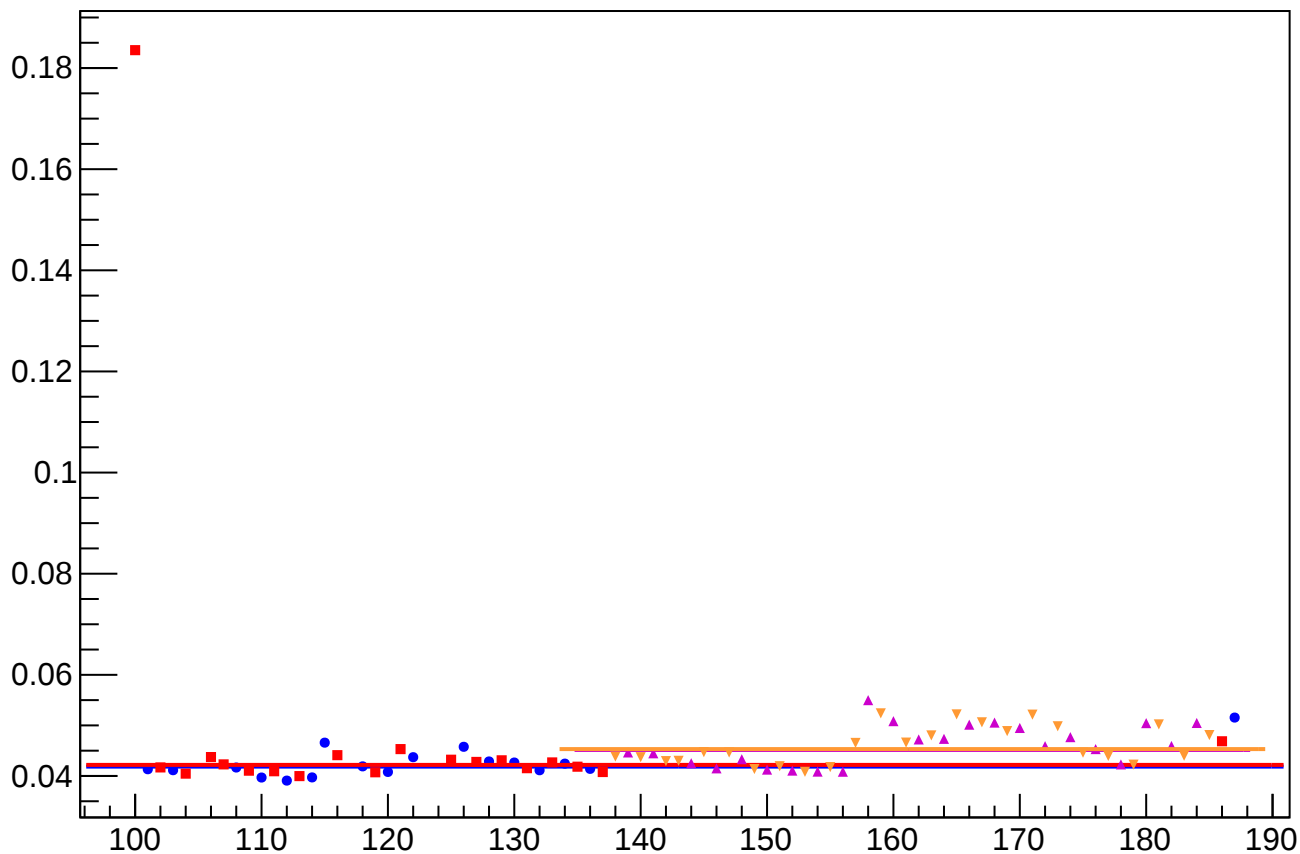
Right In: 85.158 $\pm$ 0.000 χ^2/NDF : 728782478705.1/16

Left Out: 83.355 $\pm$ 0.000 χ^2/NDF : 9142393022.8/24

Right Out: 81.353 $\pm$ 0.000 χ^2/NDF : 1349353004852.9/18

Left In: 83.309 $\pm$ 0.000 χ^2/NDF : 8421247810.9/22

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.042+/-0.000 χ^2/NDF : 30157.5/16

Left Out: 0.045+/-0.000 χ^2/NDF :211358.2/24

Right Out: 0.042+/-0.000 χ^2/NDF : 104808.4/18

Left In: 0.045+/-0.000 χ^2/NDF :242885.4/22

Left: 0.045+/-0.000 χ^2/NDF : 454494.8/47

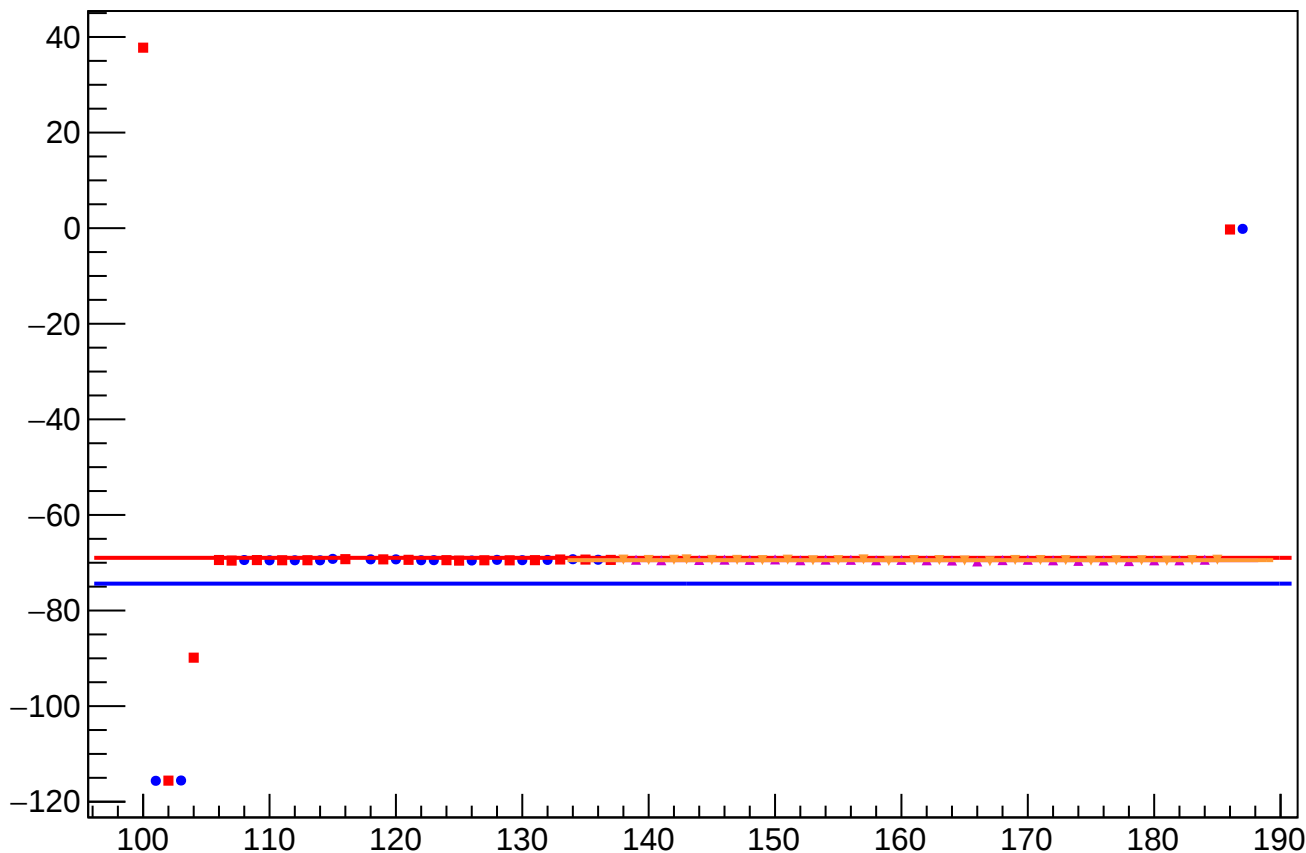
Right: 0.042+/-0.000 χ^2/NDF : 135410.2/35

In: 0.044+/-0.000 χ^2/NDF :329628.7/39

Out: 0.044+/-0.000 χ^2/NDF :370263.1/43

All: 0.044+/-0.000 χ^2/NDF : 700446.2/83

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: -71.526+/-0.000

χ^2/NDF : 2213591246879.2/

Right Out: -68.973+/-0.000

χ^2/NDF : 1217410537568.1/19

In: -70.767+/-0.000

χ^2/NDF : 1000874946588.9/40

Out: -69.327+/-0.000

χ^2/NDF : 1217842417370.3/4

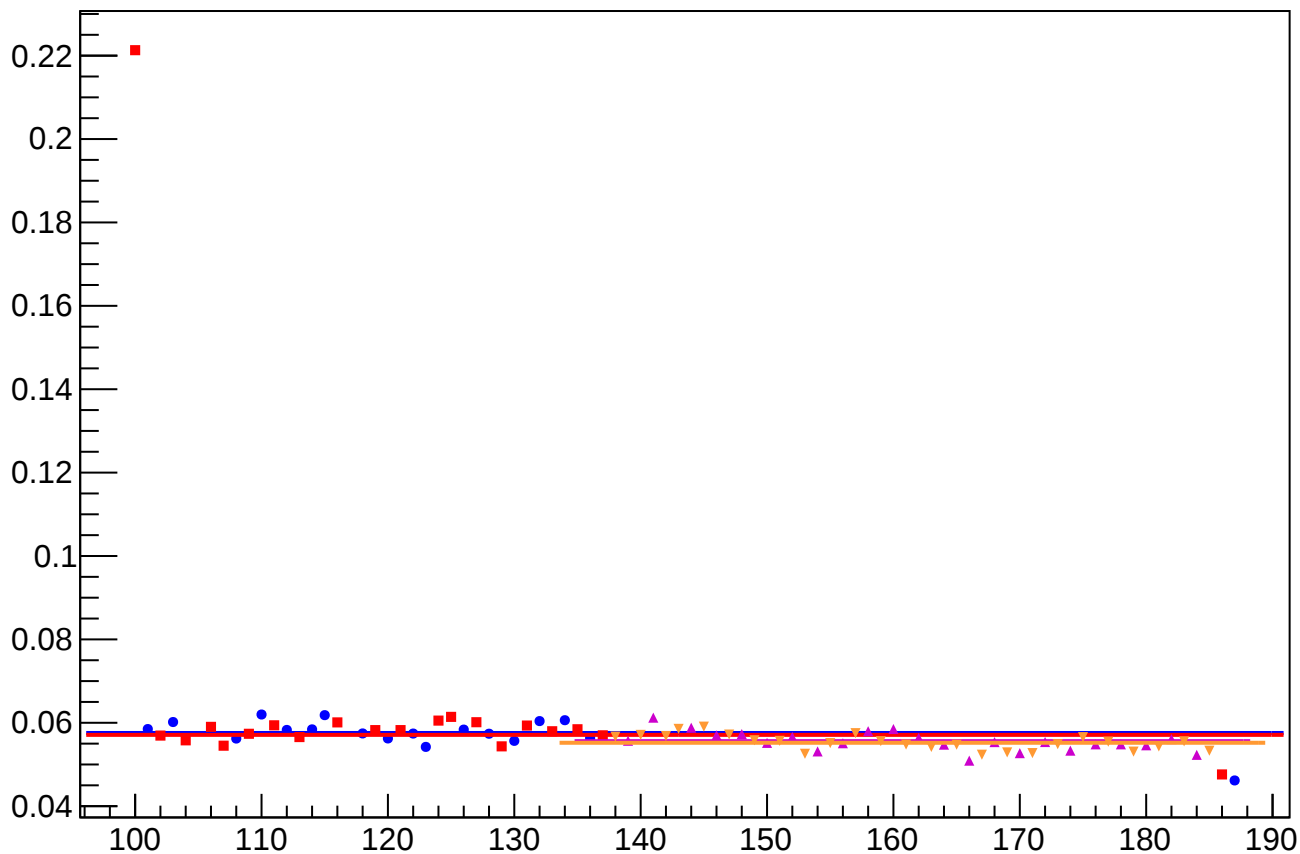
Left In: -69.458+/-0.000

χ^2/NDF : 52798704.3/22

All: -70.019+/-0.000

χ^2/NDF : 222672001855

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: 0.057 $\pm$ 0.000 χ^2 /NDF: 119989.4/19

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

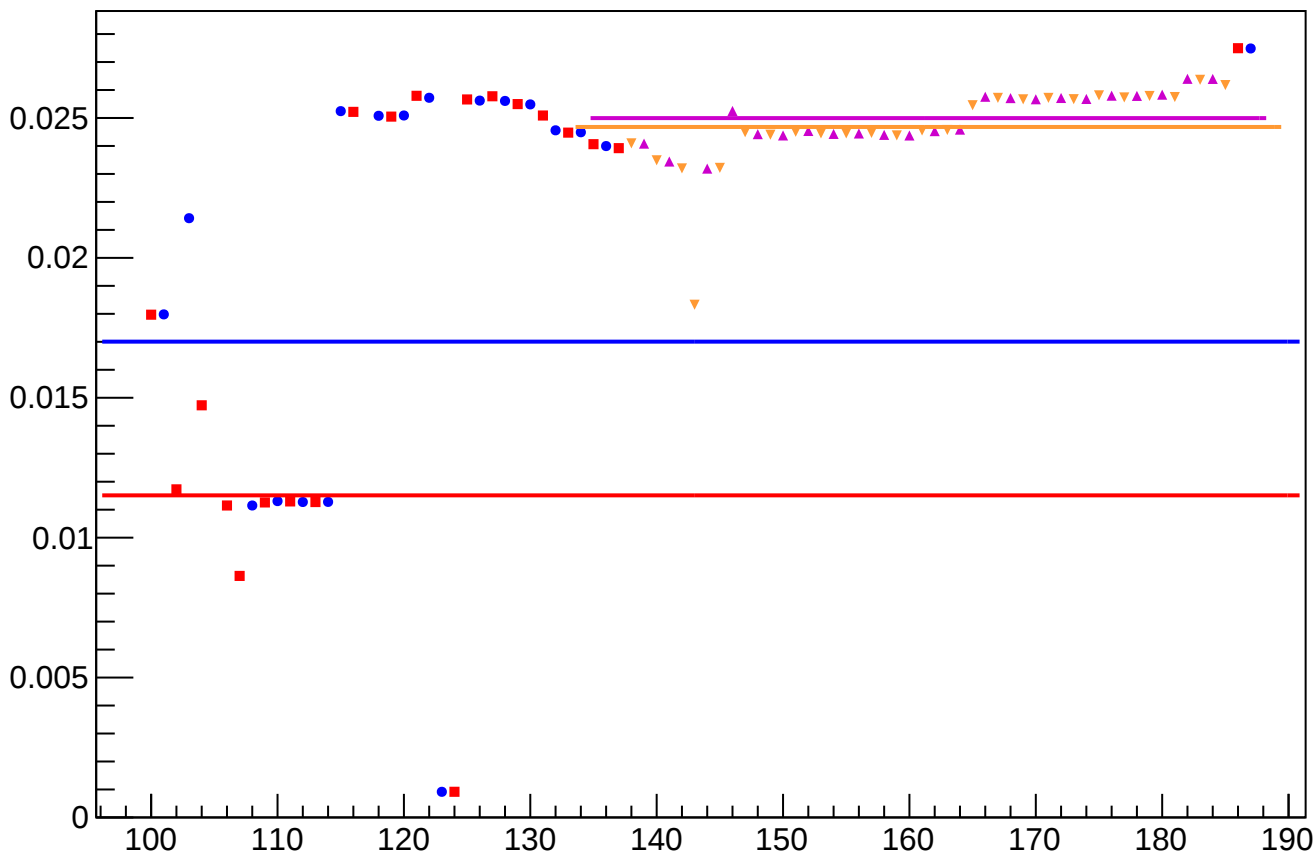
Right: 0.057 $\pm$ 0.000 χ^2 /NDF: 151582.1/37

In: 0.056 $\pm$ 0.000 χ^2 /NDF:94530.0/40

Out: 0.056 $\pm$ 0.000 χ^2 /NDF:170246.6/44

All: 0.056 $\pm$ 0.000 χ^2 /NDF: 265930.5/85

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 : 399694193665.1/37

Right Out: 0.012+/-0.000

χ^2/NDF : 241794821578.4/19

In: 0.022+/-0.000

χ^2/NDF : 203226466519.9/40

Out: 0.019+/-0.000

χ^2/NDF : 505898150348.1/44

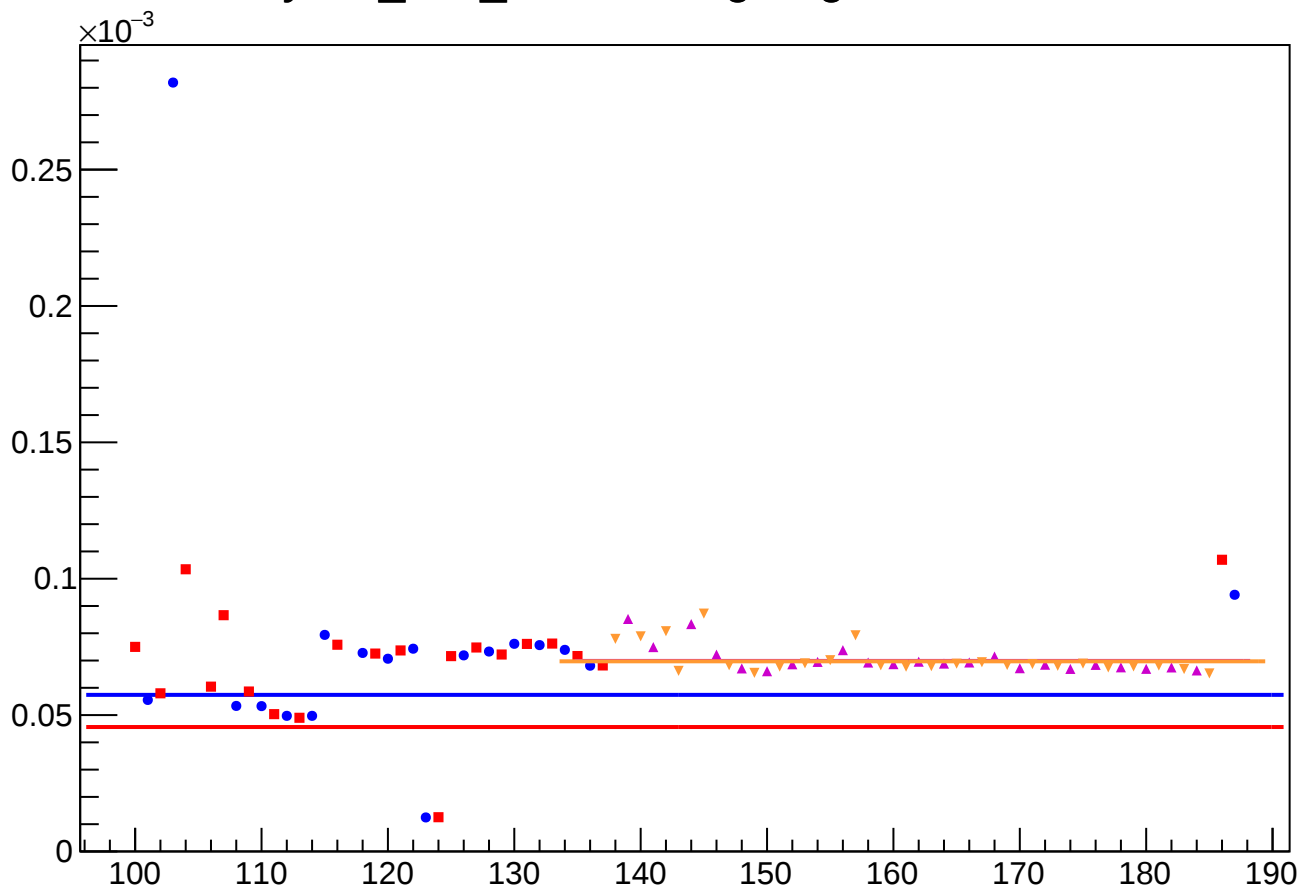
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.021+/-0.000

χ^2/NDF : 733176334532.0

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 : 3836980.0/19

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

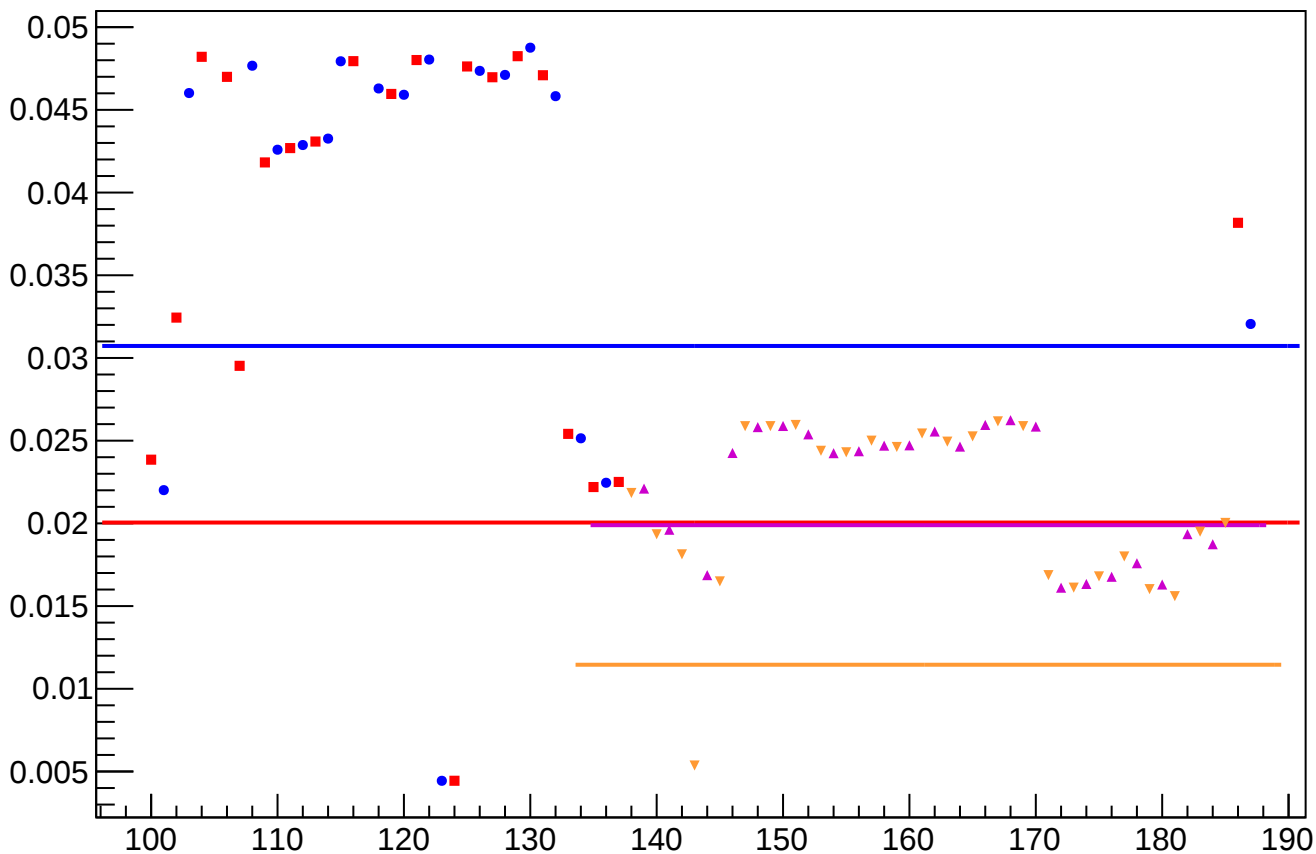
Right: 0.000+/-0.000 χ^2/NDF : 6156326.5/37

In: 0.000+/-0.000 χ^2/NDF :2525484.6/40

Out: 0.000+/-0.000 χ^2/NDF :5699075.3/44

All: 0.000+/-0.000 χ^2/NDF : 8402214.0/85

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

Right: 0.024+/-0.000 χ^2/NDF : 66122094661.7/37

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

In: 0.022+/-0.000 χ^2/NDF : 32283642016.5/40

Right Out: 0.020+/-0.000

χ^2/NDF : 39971268253.6/19

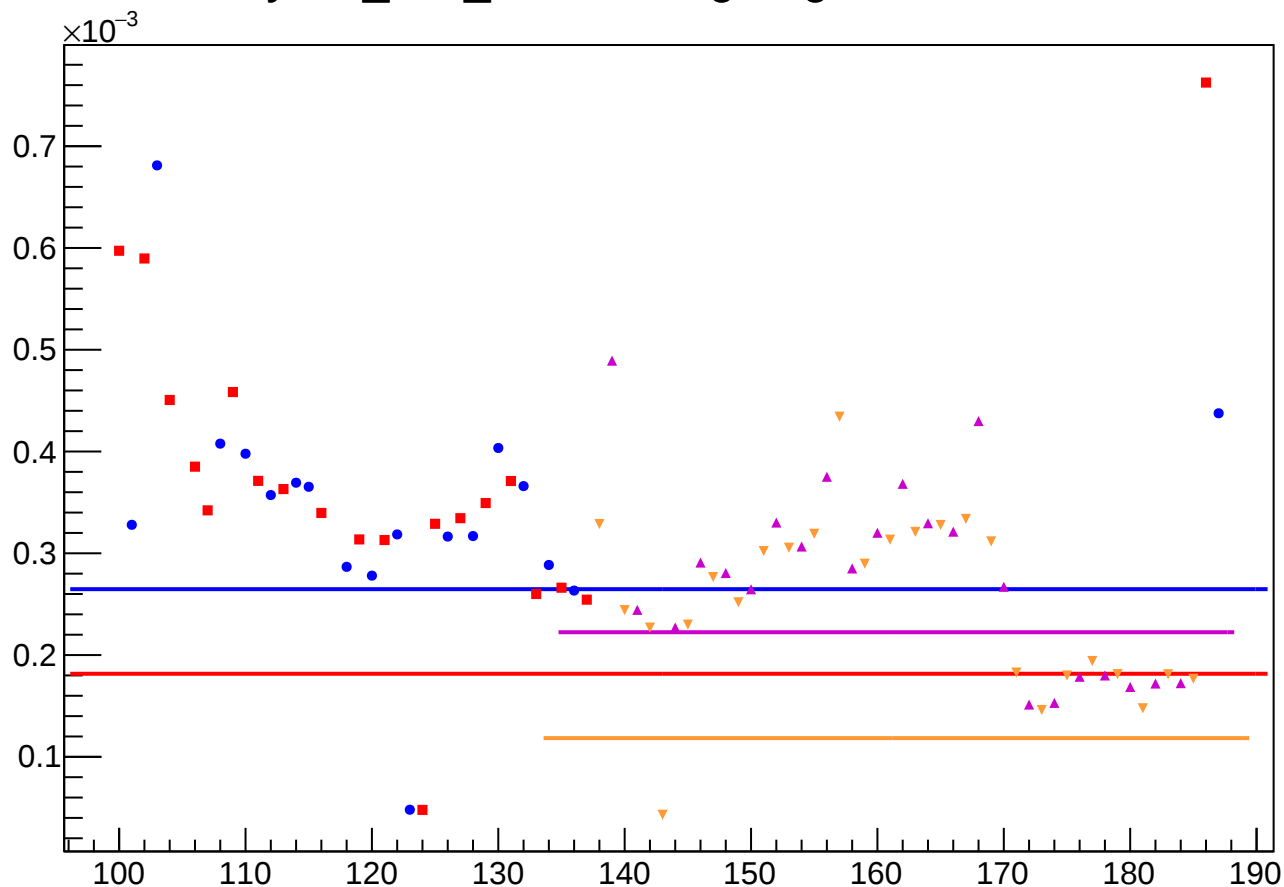
Out: 0.013+/-0.000 χ^2/NDF : 87737298444.8/44

Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000 χ^2/NDF : 142166240534.1

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 : 5768953.0/19

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

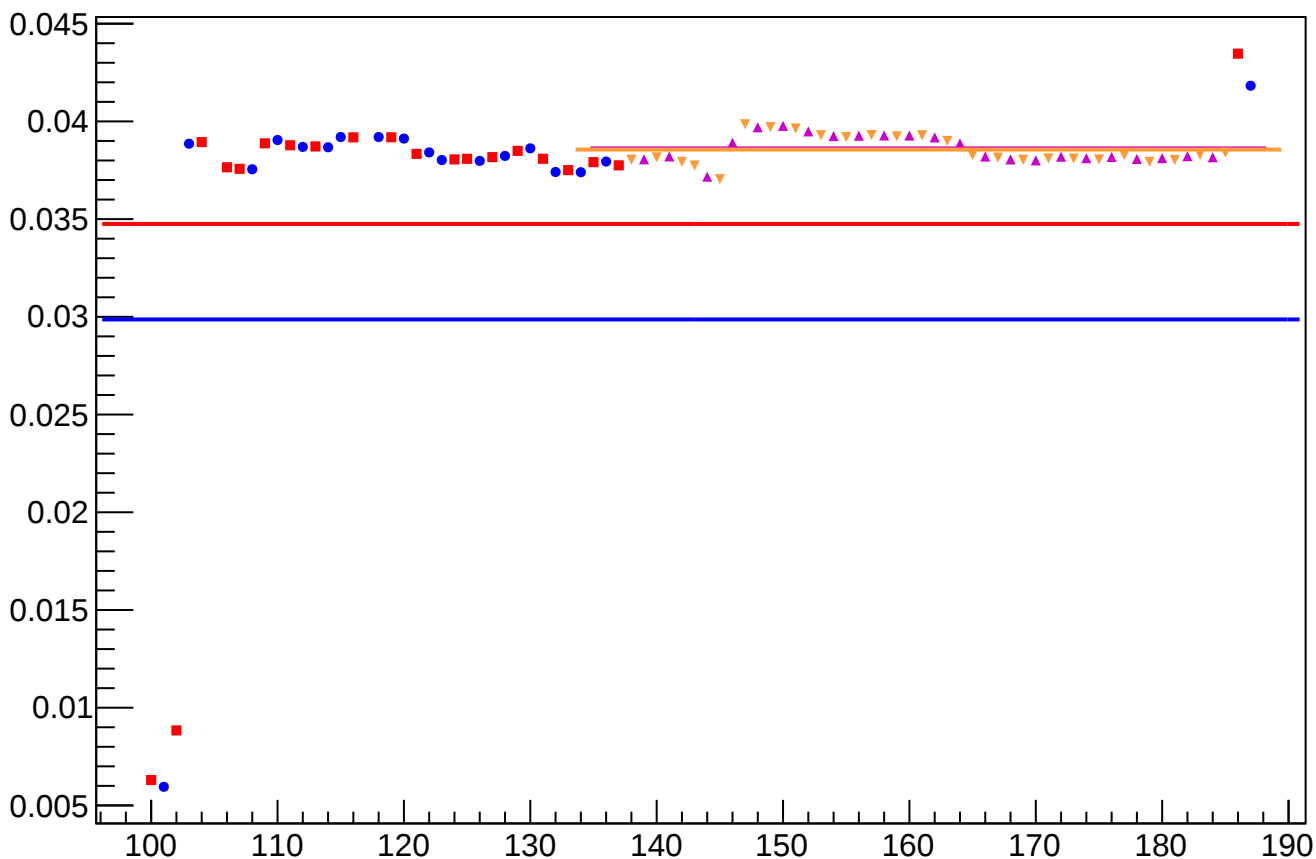
Right: 0.000+/-0.000 χ^2/NDF : 8822059.4/37

In: 0.000+/-0.000 χ^2/NDF :5925417.5/40

Out: 0.000+/-0.000 χ^2/NDF :20140234.9/44

All: 0.000+/-0.000 χ^2/NDF : 31482088.7/85

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 : 147193613173.5/37

Right Out: 0.035+/-0.000

χ^2/NDF : 44322675104.4/19

In: 0.036+/-0.000

χ^2/NDF : 122675941274.3/40

Out: 0.037+/-0.000

χ^2/NDF : 49403311587.3/44

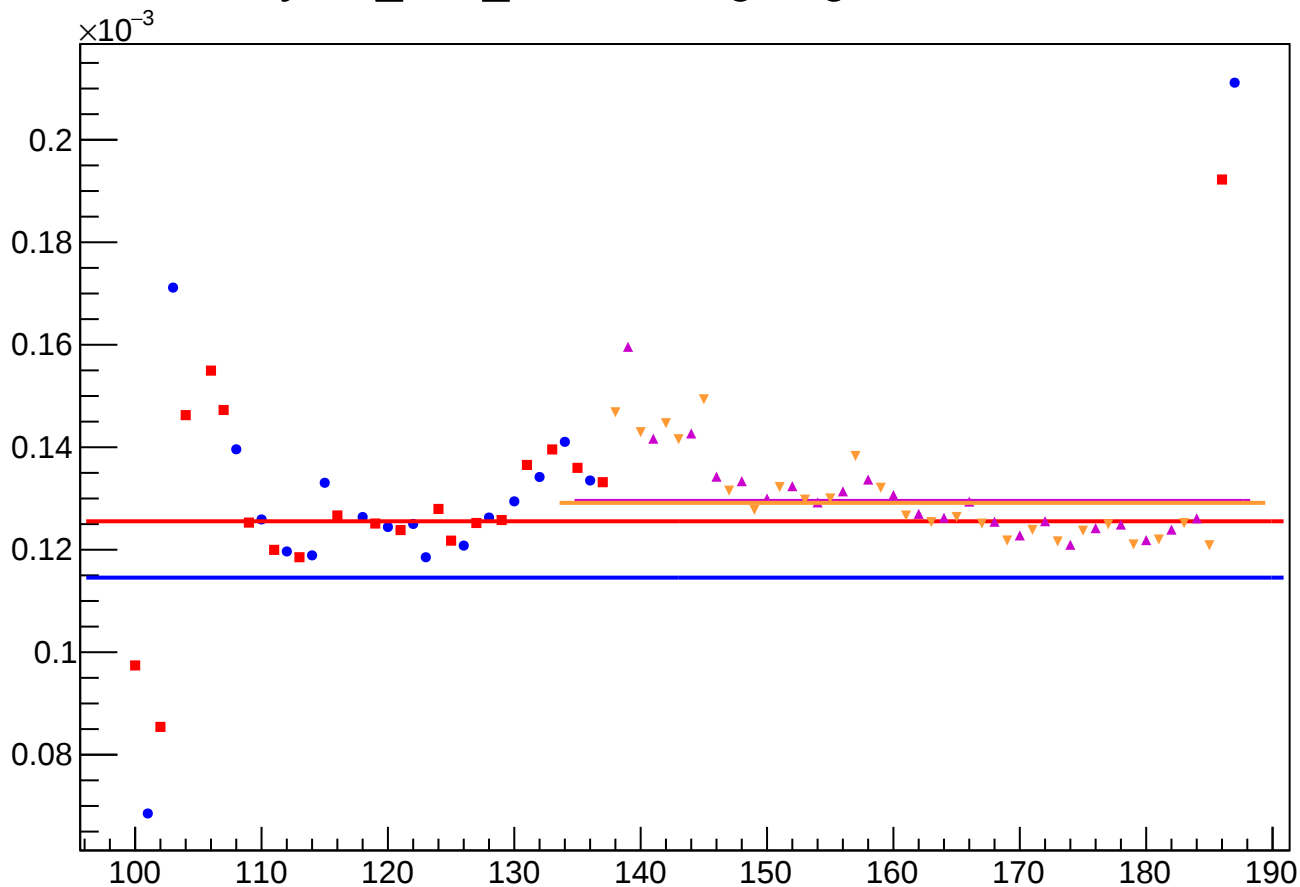
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.037+/-0.000

χ^2/NDF : 174058655791.0

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 : 336474.9/19

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

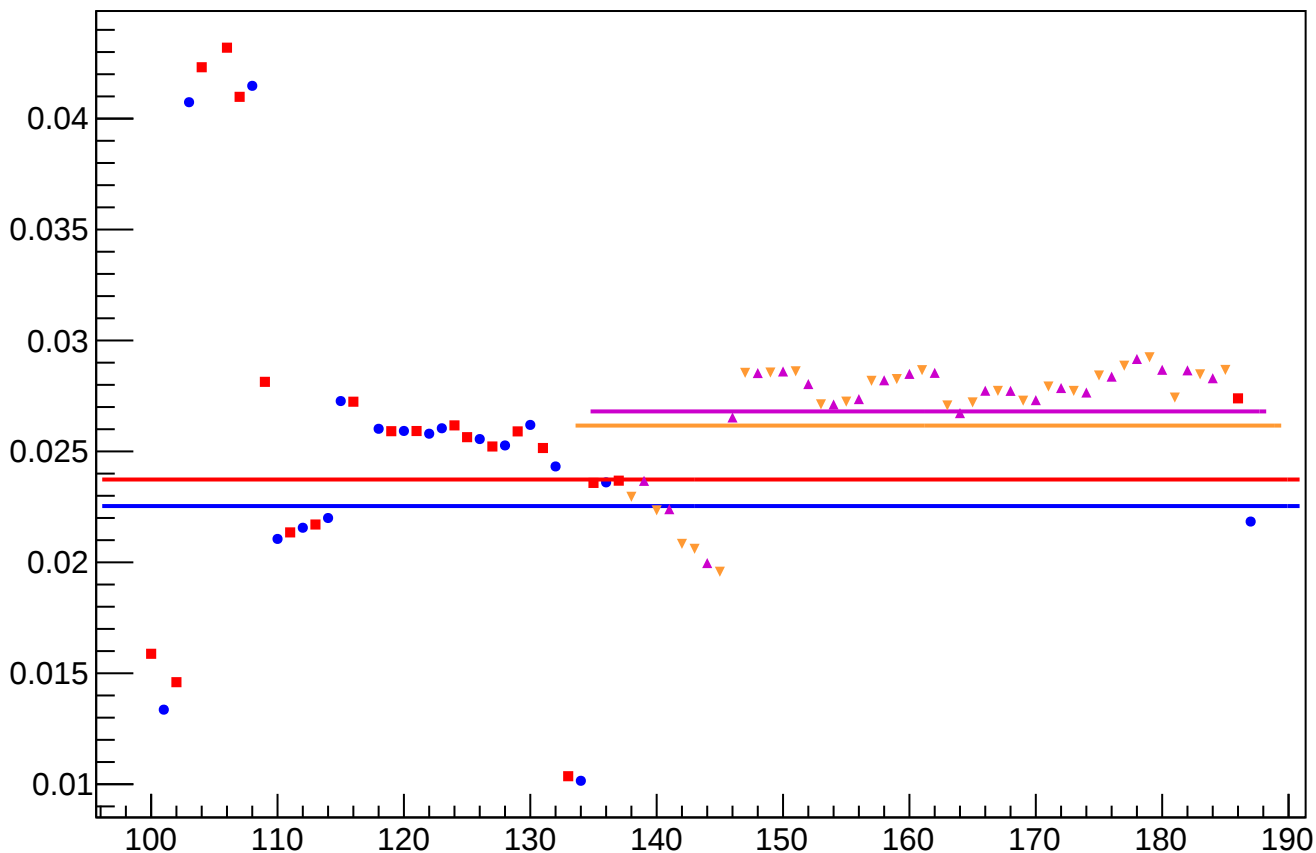
Right: 0.000+/-0.000 χ^2/NDF : 1246077.8/37

In: 0.000+/-0.000 χ^2/NDF :1114176.7/40

Out: 0.000+/-0.000 χ^2/NDF :474902.8/44

All: 0.000+/-0.000 χ^2/NDF : 1605891.1/85

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4236594109.3/17

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.024+/-0.000 χ^2/NDF : 5661274443.5/19

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

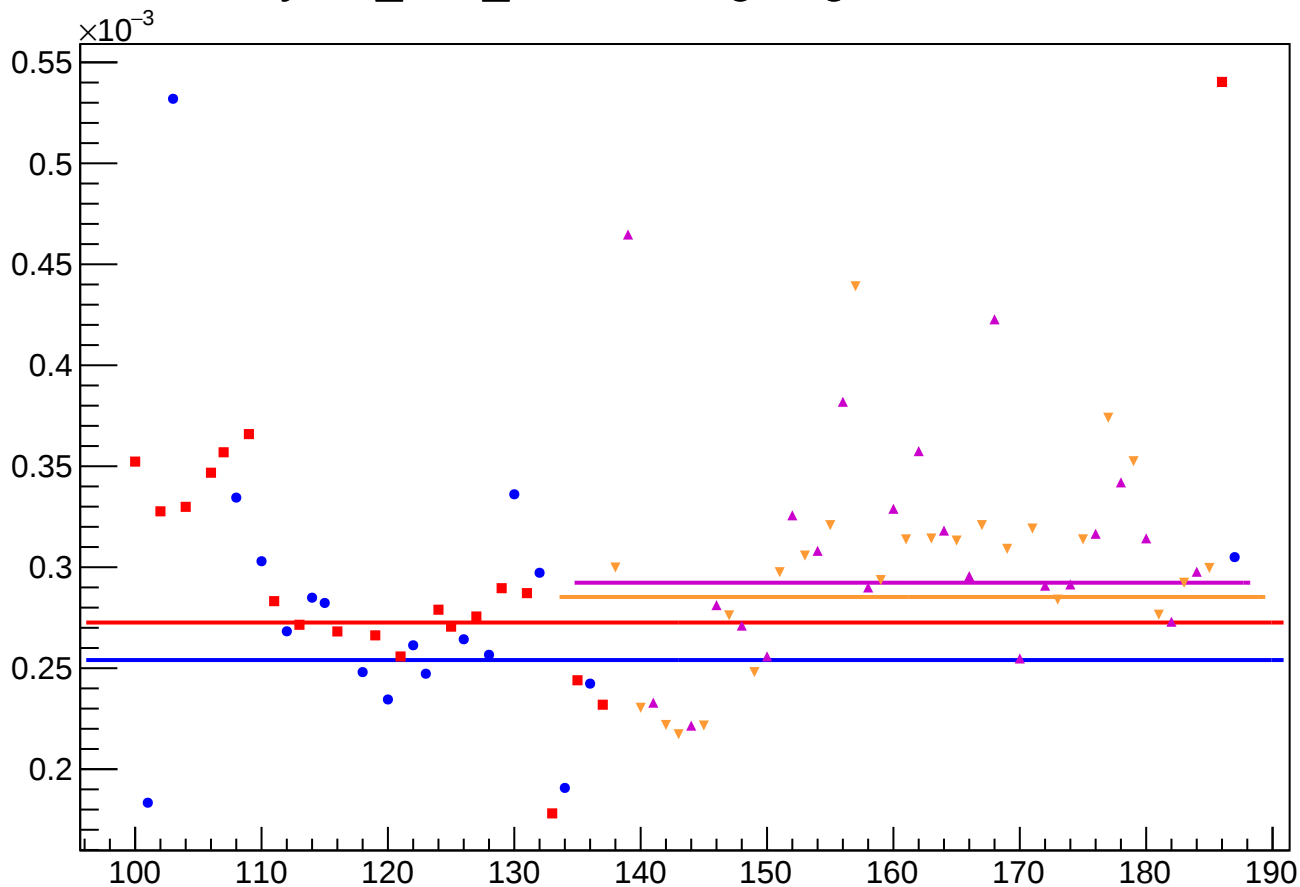
Right: 0.023+/-0.000 χ^2/NDF : 9961441483.5/37

In: 0.025+/-0.000 χ^2/NDF : 6681597053.2/40

Out: 0.025+/-0.000 χ^2/NDF : 8074879791.4/44

All: 0.025+/-0.000 χ^2/NDF : 14756773480.2/8

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 : 613334.2/19

Left In: 0.000+/-0.000 χ^2/NDF : 898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

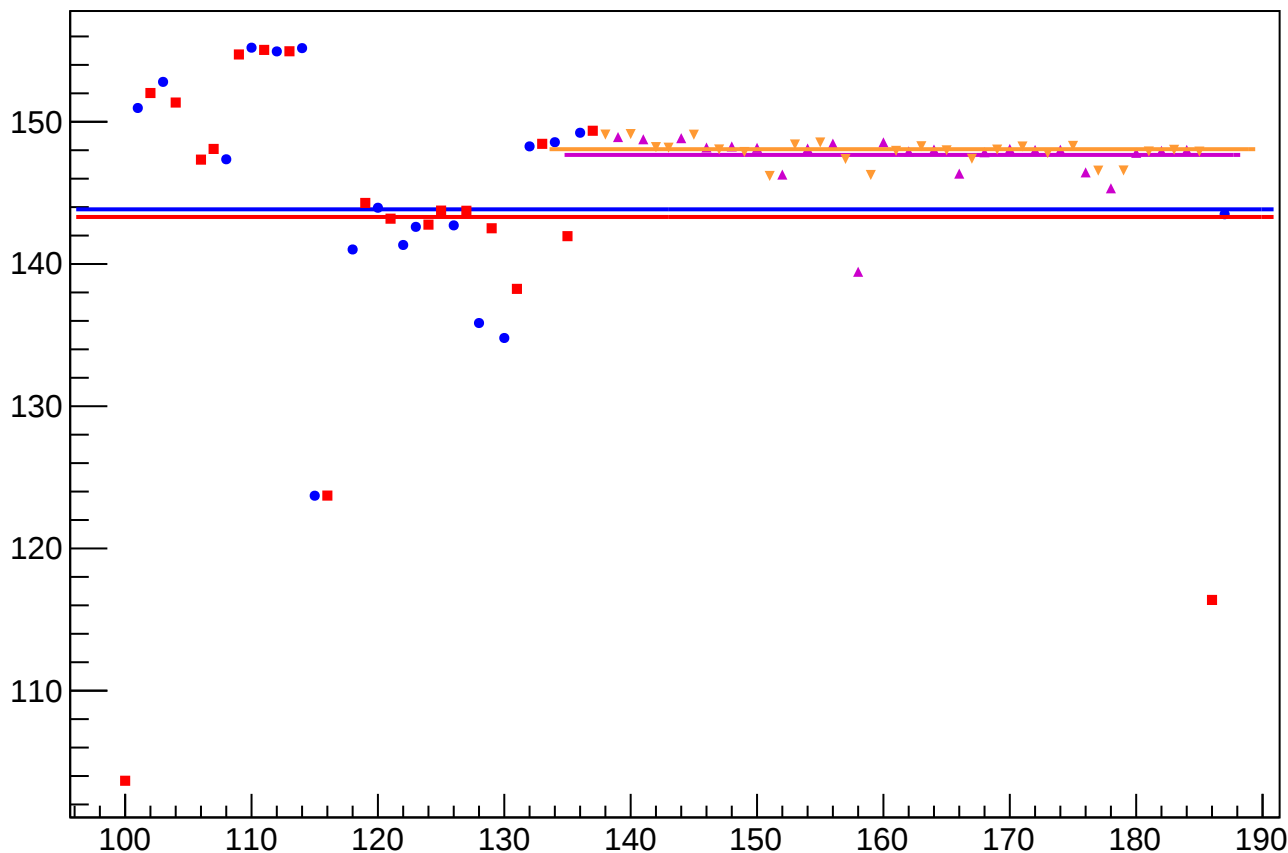
Right: 0.000+/-0.000 χ^2/NDF : 1278285.0/37

In: 0.000+/-0.000 χ^2/NDF : 1712557.2/40

Out: 0.000+/-0.000 χ^2/NDF : 1446132.5/44

All: 0.000+/-0.000 χ^2/NDF : 3159621.3/85

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: 143.307 $\pm$ 0.000 χ^2 /NDF: 6071206706.2/19

Left In: 147.670 $\pm$ 0.000 χ^2 /NDF: 345222604.4/22

Left: 147.879 $\pm$ 0.000 χ^2 /NDF: 418091602.5/47

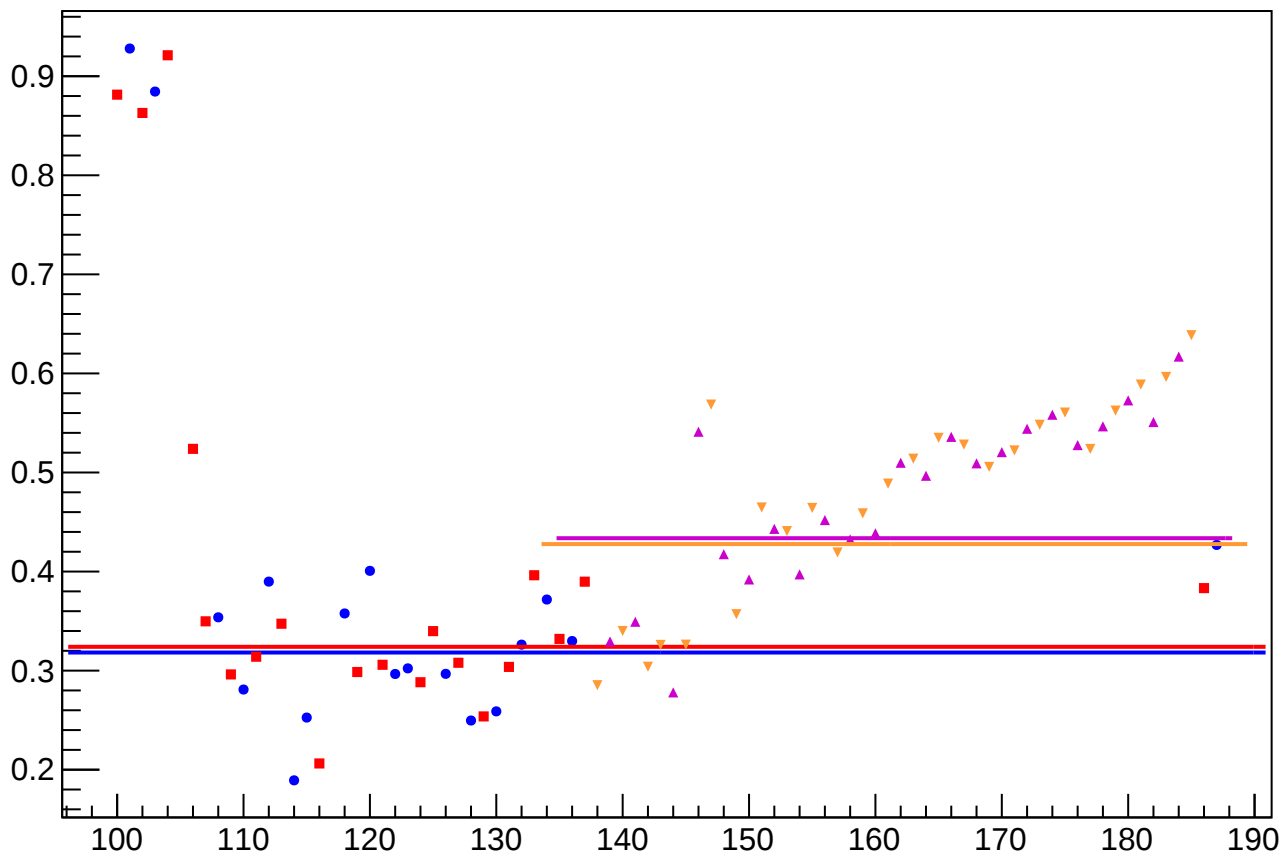
Right: 143.568 $\pm$ 0.000 χ^2 /NDF: 9530397289.5/37

In: 146.167 $\pm$ 0.000 χ^2 /NDF: 4293343887.3/40

Out: 146.220 $\pm$ 0.000 χ^2 /NDF: 6956108069.1/44

All: 146.195 $\pm$ 0.000 χ^2 /NDF: 11249658562.

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: 0.324 $\pm$ 0.000 χ^2 /NDF: 1234803.9/19

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

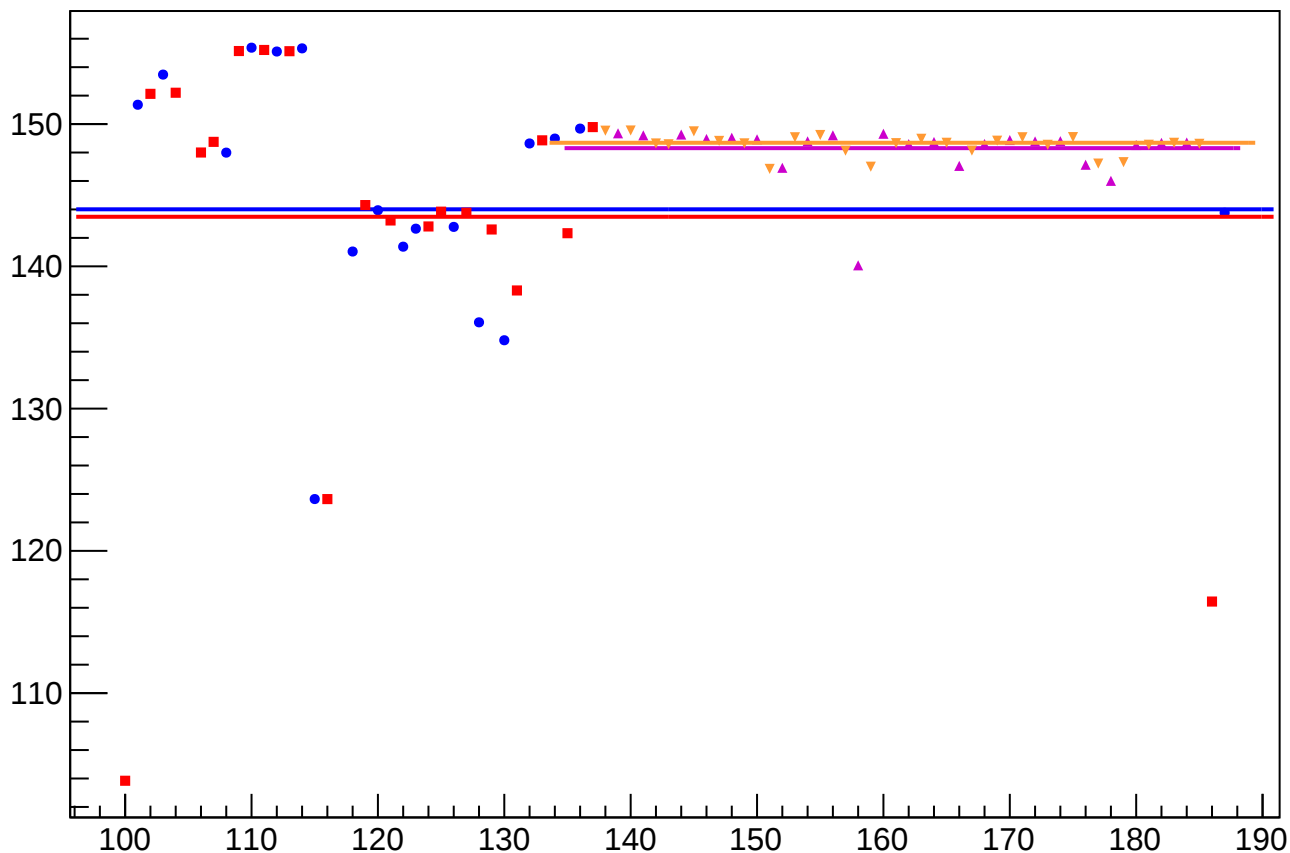
Right: 0.321 $\pm$ 0.000 χ^2 /NDF: 2515475.6/37

In: 0.388 $\pm$ 0.000 χ^2 /NDF:3679571.5/40

Out: 0.387 $\pm$ 0.000 χ^2 /NDF:3907042.6/44

All: 0.388 $\pm$ 0.000 χ^2 /NDF: 7586736.1/85

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: 143.484 $\pm$ 0.000 χ^2/NDF : 6057950414.0/19

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

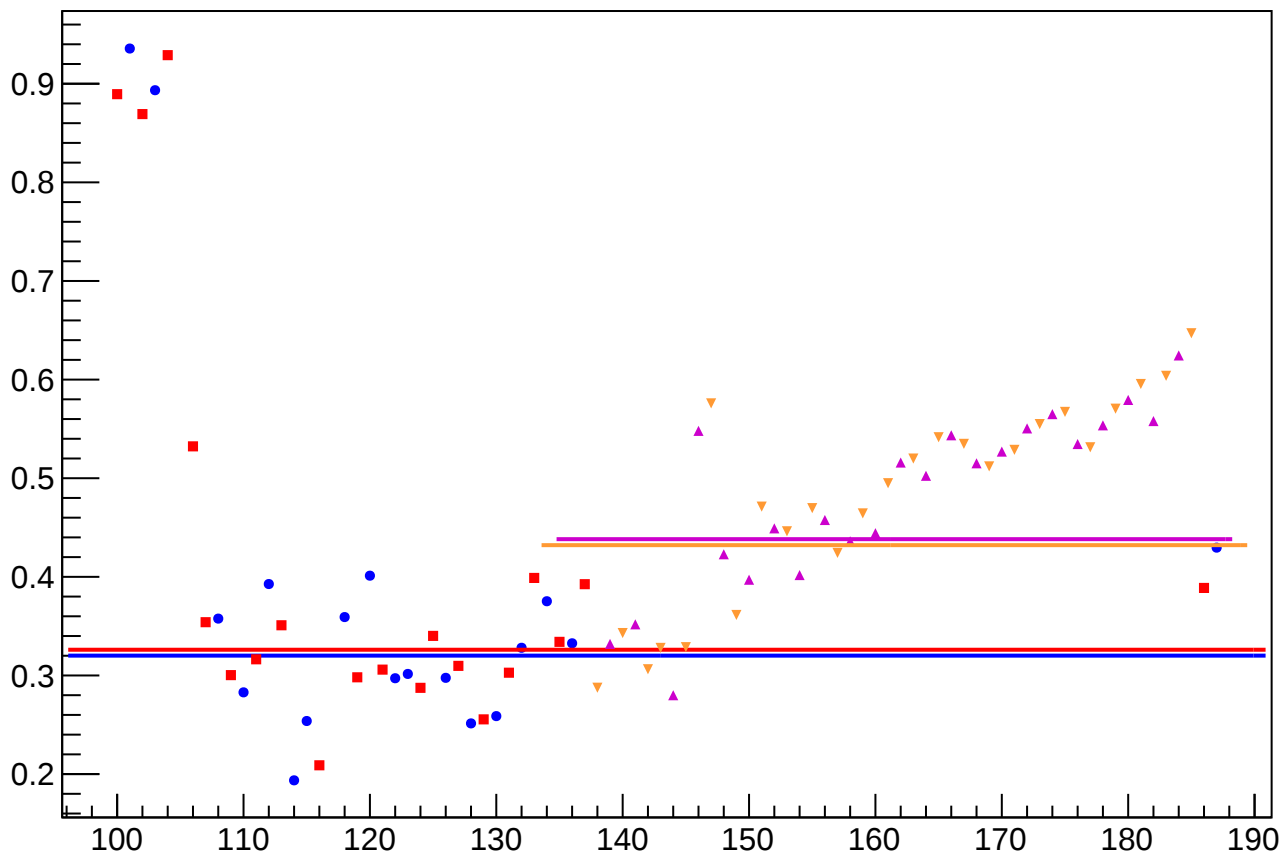
Right: 143.740 $\pm$ 0.000 χ^2/NDF : 9561102542.4/37

In: 146.609 $\pm$ 0.000 χ^2/NDF : 4446762499.5/40

Out: 146.654 $\pm$ 0.000 χ^2/NDF : 7070597464.5/44

All: 146.632 $\pm$ 0.000 χ^2/NDF : 11517506568

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: 0.326 $\pm$ 0.000 χ^2/NDF : 1238759.2/19

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

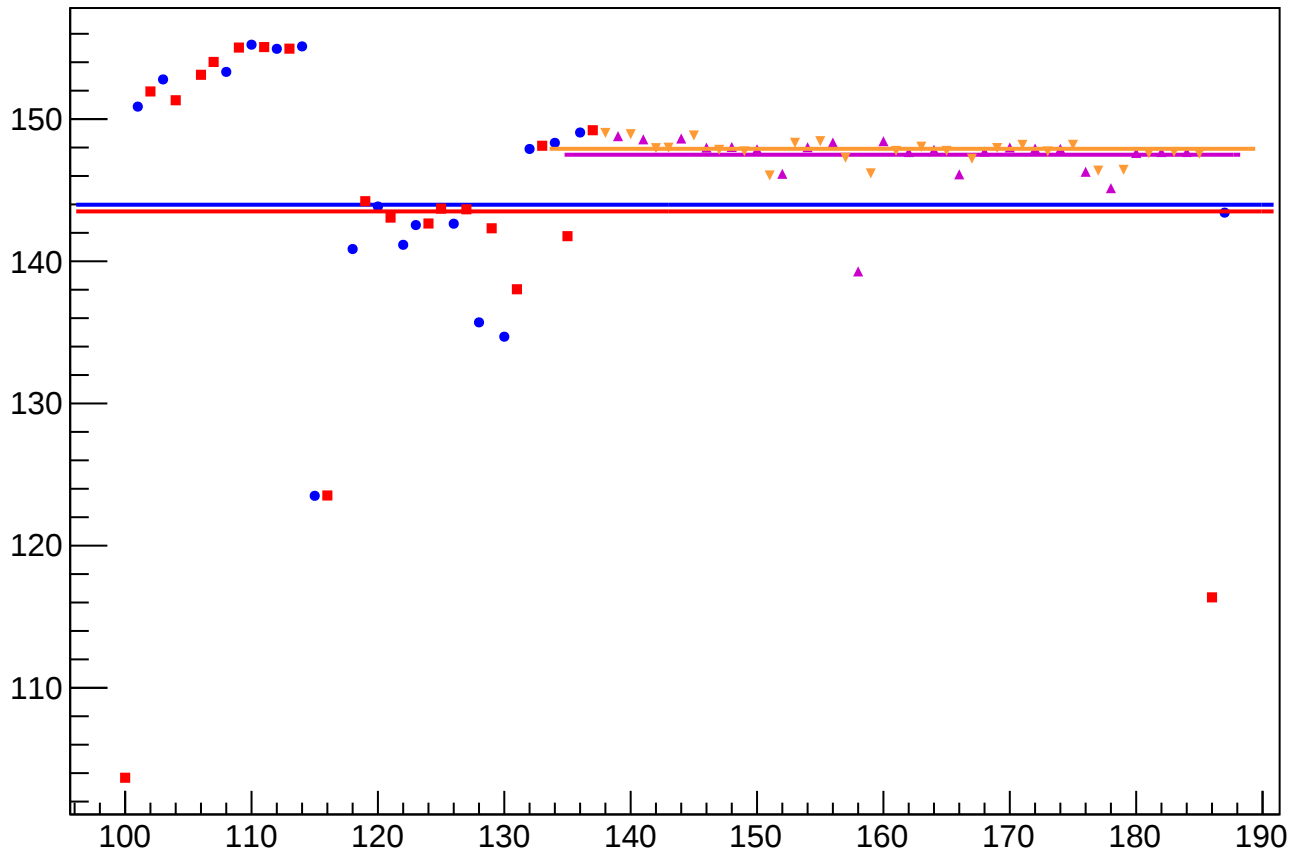
Right: 0.323 $\pm$ 0.000 χ^2/NDF : 2521389.2/37

In: 0.392 $\pm$ 0.000 χ^2/NDF :3735280.2/40

Out: 0.391 $\pm$ 0.000 χ^2/NDF :3965891.6/44

All: 0.391 $\pm$ 0.000 χ^2/NDF : 7701273.5/85

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: 143.508 $\pm$ 0.000 χ^2 /NDF: 6406536791.6/19

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

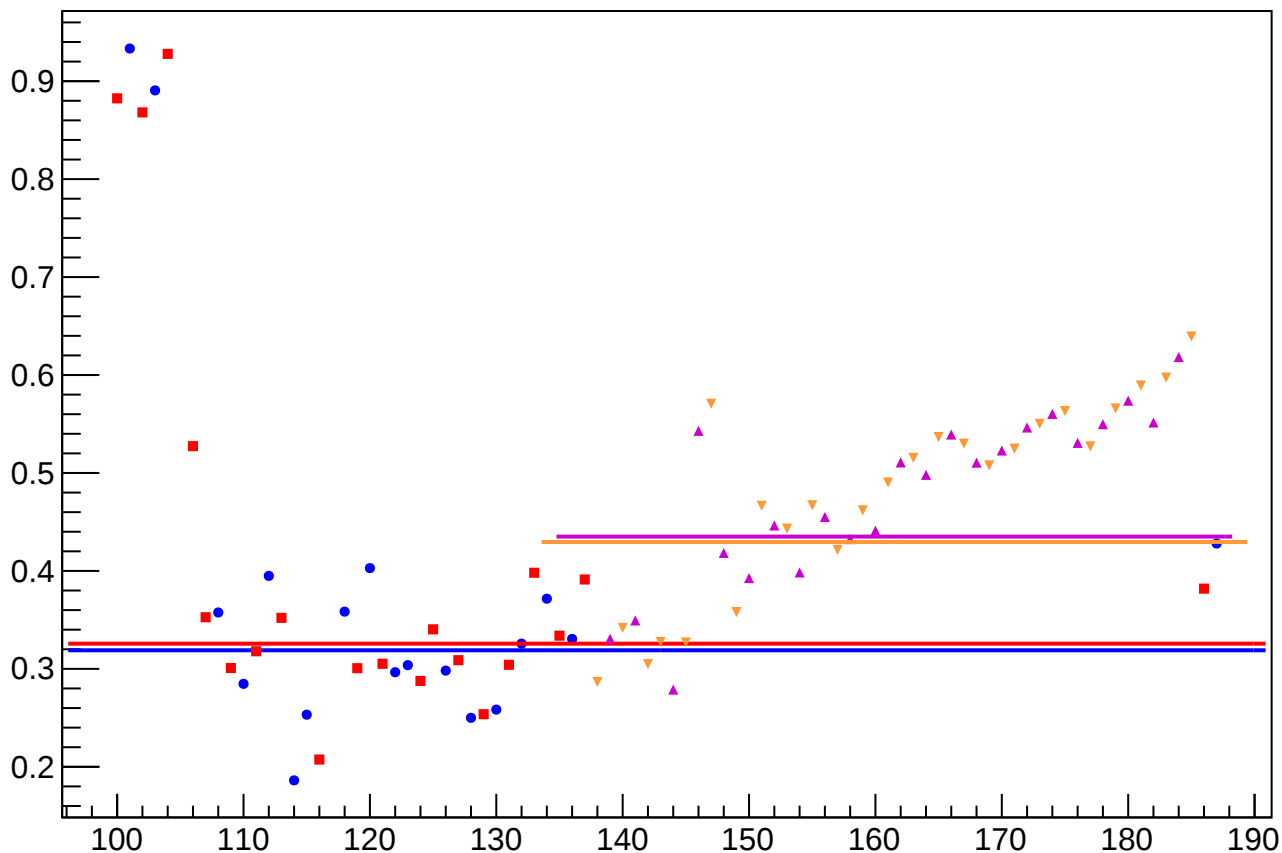
Right: 143.737 $\pm$ 0.000 χ^2 /NDF: 10077529983.4/37

In: 146.112 $\pm$ 0.000 χ^2 /NDF: 4425852206.5/40

Out: 146.202 $\pm$ 0.000 χ^2 /NDF: 7163533987.7/44

All: 146.158 $\pm$ 0.000 χ^2 /NDF: 11589974085.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.319+/-0.000 χ^2/NDF : 1293427.2/17

Left Out: 0.430+/-0.000 χ^2/NDF :1895701.4/24

Right Out: 0.326+/-0.000 χ^2/NDF : 1237766.4/19

Left In: 0.435+/-0.000 χ^2/NDF :1502712.5/22

Left: 0.432+/-0.000 χ^2/NDF : 3401133.5/47

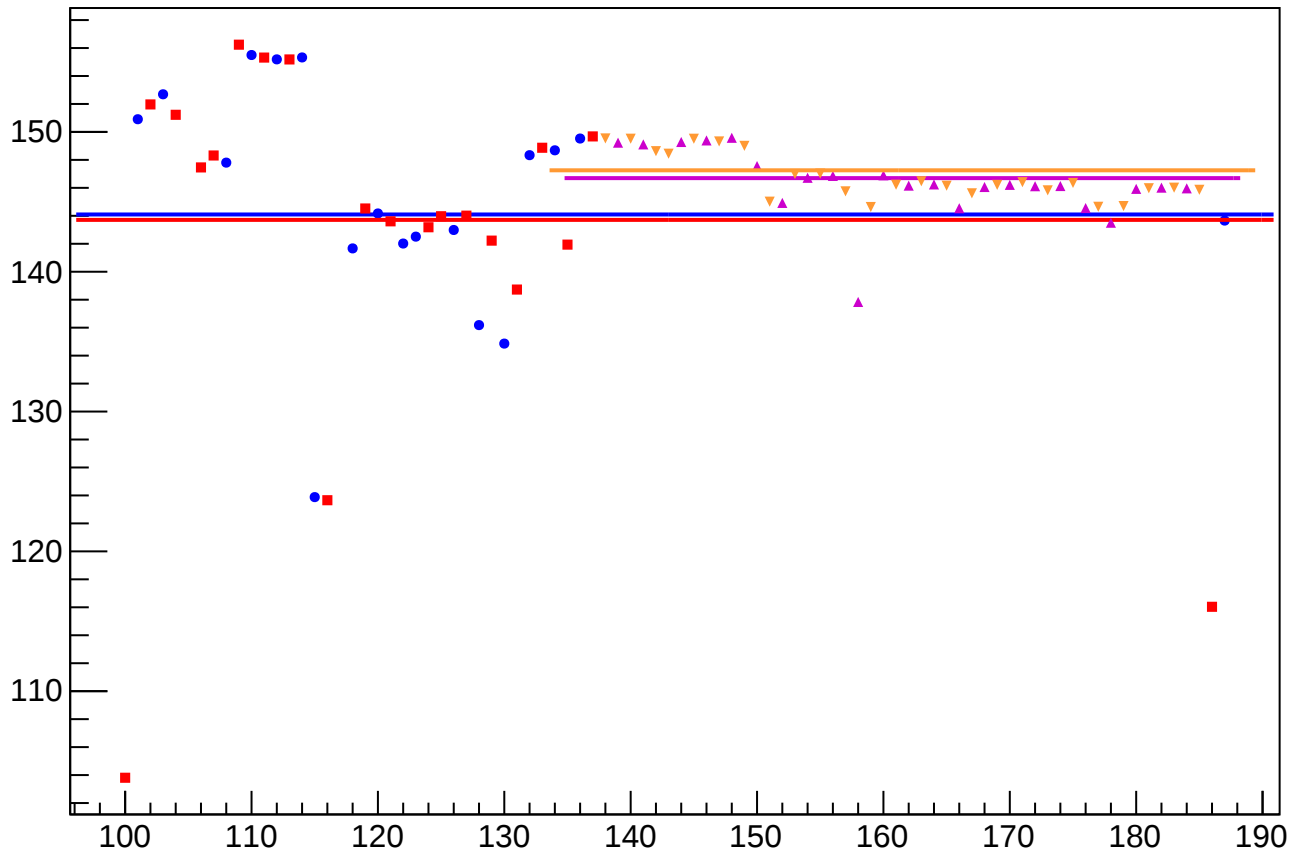
Right: 0.322+/-0.000 χ^2/NDF : 2533797.6/37

In: 0.389+/-0.000 χ^2/NDF :3705936.5/40

Out: 0.389+/-0.000 χ^2/NDF :3903283.6/44

All: 0.389+/-0.000 χ^2/NDF : 7609226.9/85

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: 143.709 $\pm$ 0.000 χ^2/NDF : 5819564853.4/19

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

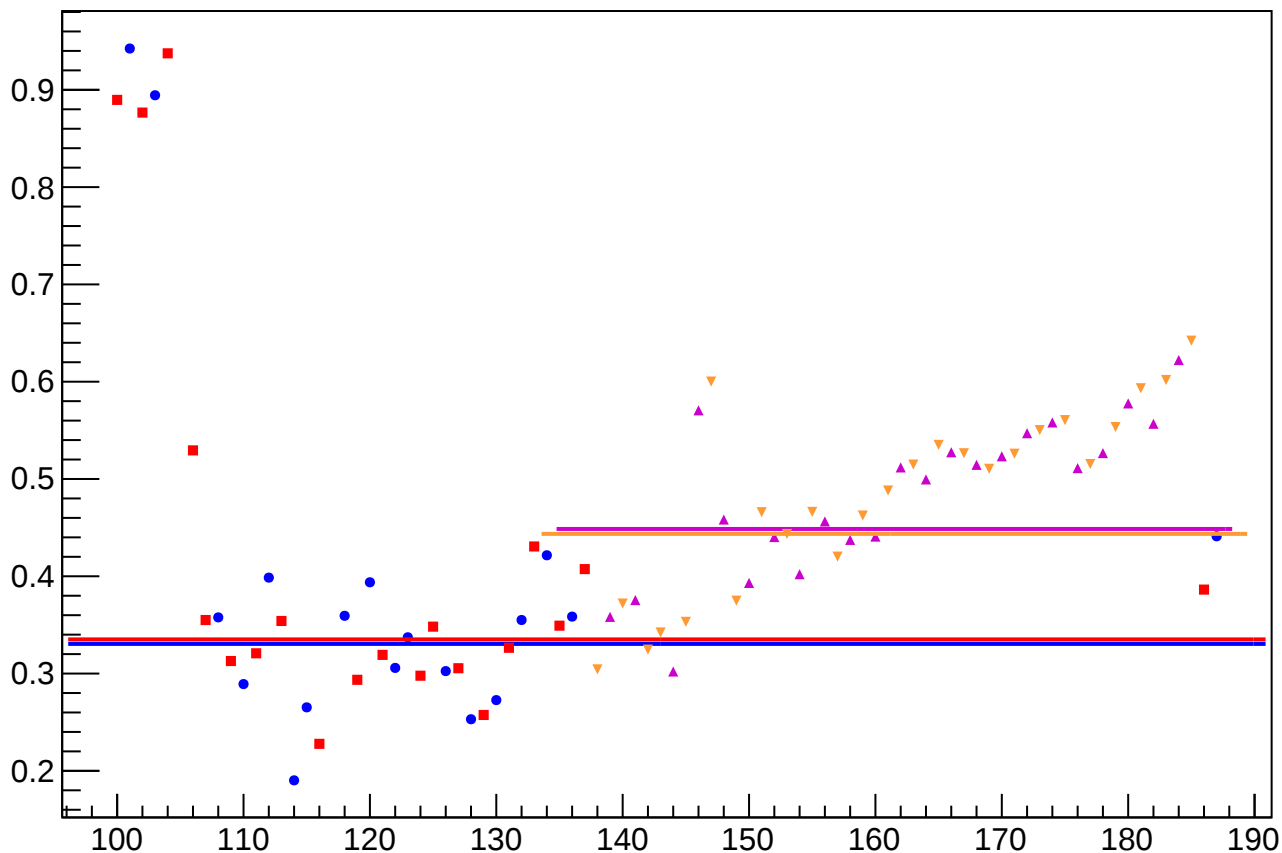
Right: 143.896 $\pm$ 0.000 χ^2/NDF : 8986934544.4/37

In: 145.688 $\pm$ 0.000 χ^2/NDF : 3935149355.9/40

Out: 145.881 $\pm$ 0.000 χ^2/NDF : 6506105060.0/44

All: 145.787 $\pm$ 0.000 χ^2/NDF : 10443817428.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.330+/-0.000 χ^2/NDF : 1277128.4/17

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.335+/-0.000 χ^2/NDF : 1195083.7/19

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

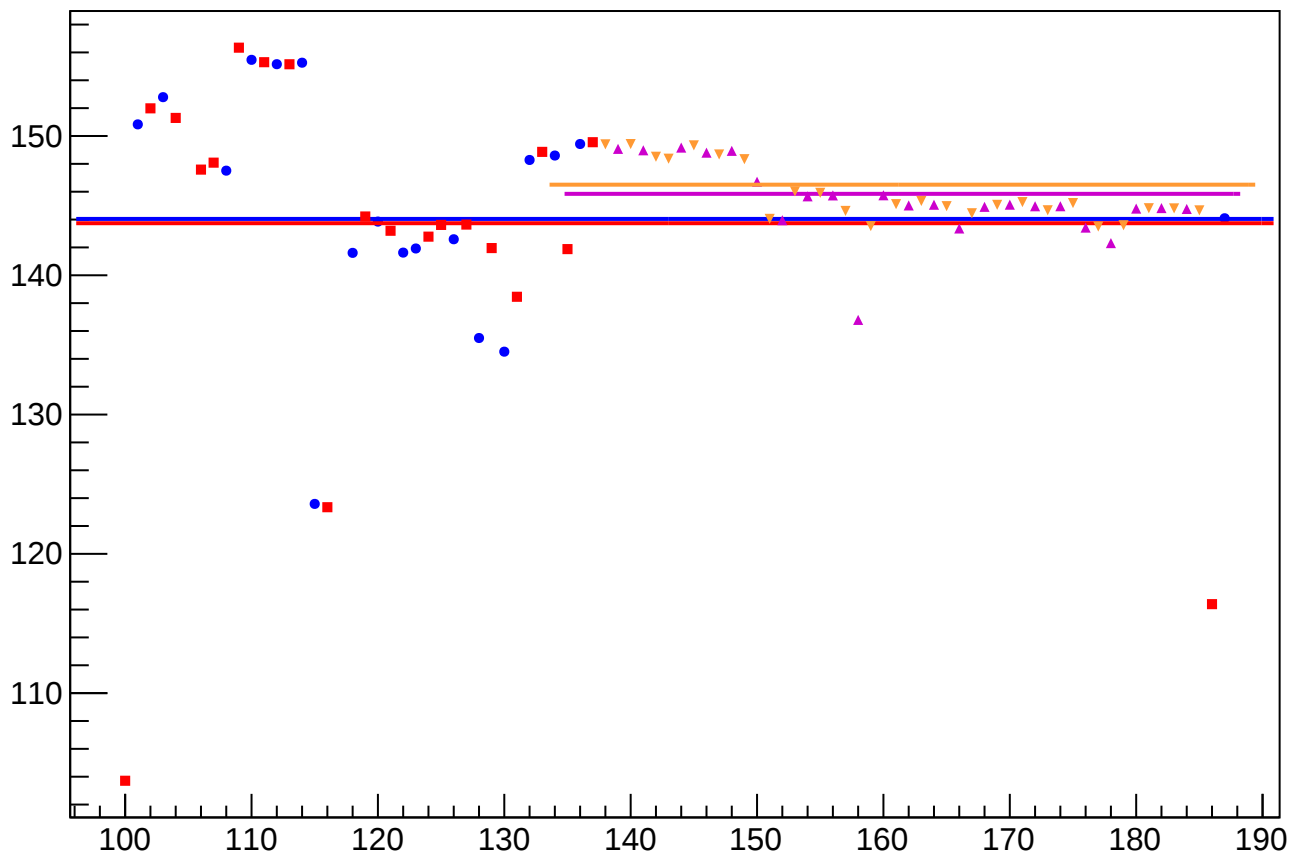
Right: 0.333+/-0.000 χ^2/NDF : 2473349.2/37

In: 0.403+/-0.000 χ^2/NDF :3292770.6/40

Out: 0.402+/-0.000 χ^2/NDF :3472836.8/44

All: 0.402+/-0.000 χ^2/NDF : 6765839.2/85

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: 143.738 $\pm$ 0.000 χ^2 /NDF: 5834953628.5/19

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

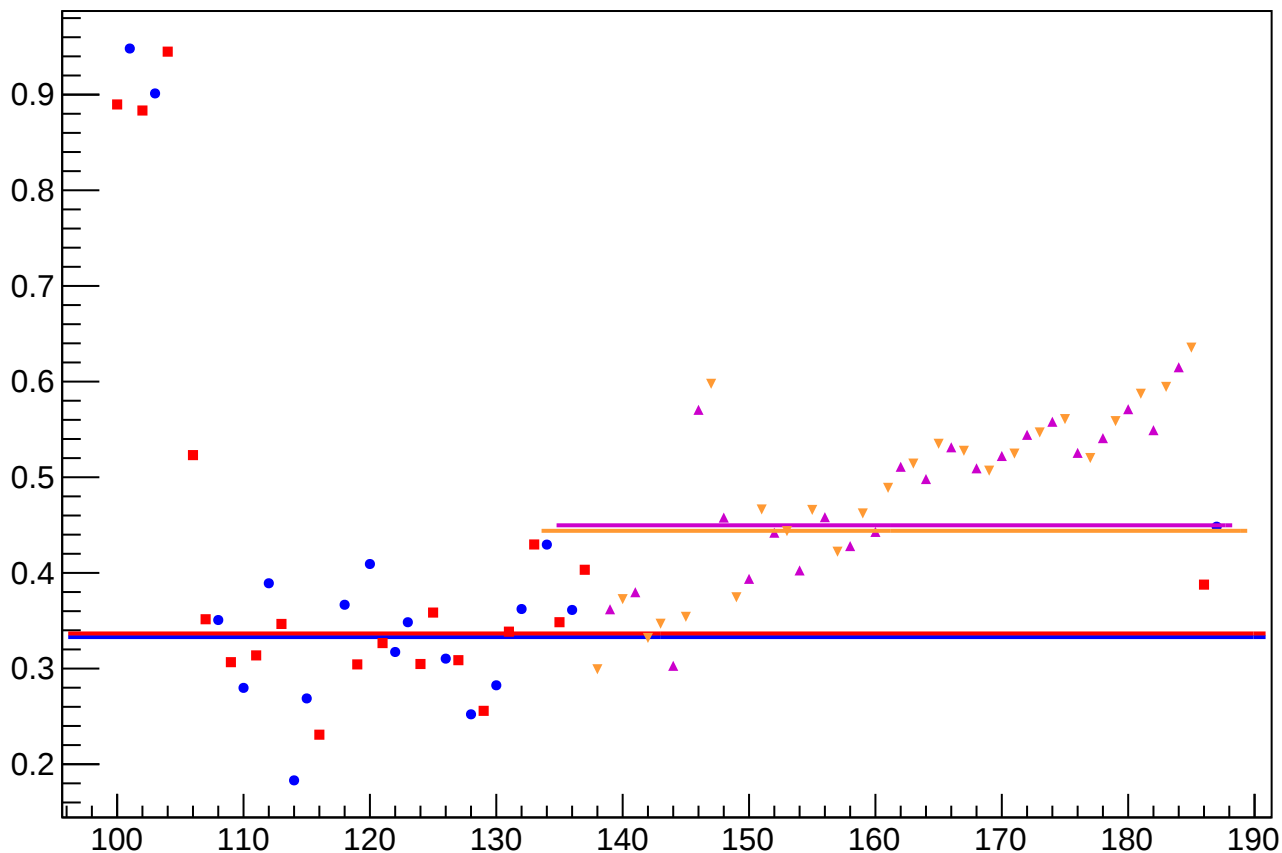
Right: 143.887 $\pm$ 0.000 χ^2 /NDF: 9120317801.6/37

In: 145.154 $\pm$ 0.000 χ^2 /NDF: 4078805104.3/40

Out: 145.438 $\pm$ 0.000 χ^2 /NDF: 6493063274.8/44

All: 145.301 $\pm$ 0.000 χ^2 /NDF: 10577372163.

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.333 $\pm$ 0.000 χ^2 /NDF: 1294083.1/17

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.337 $\pm$ 0.000 χ^2 /NDF: 1183501.6/19

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1105405.0/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2571486.5/47

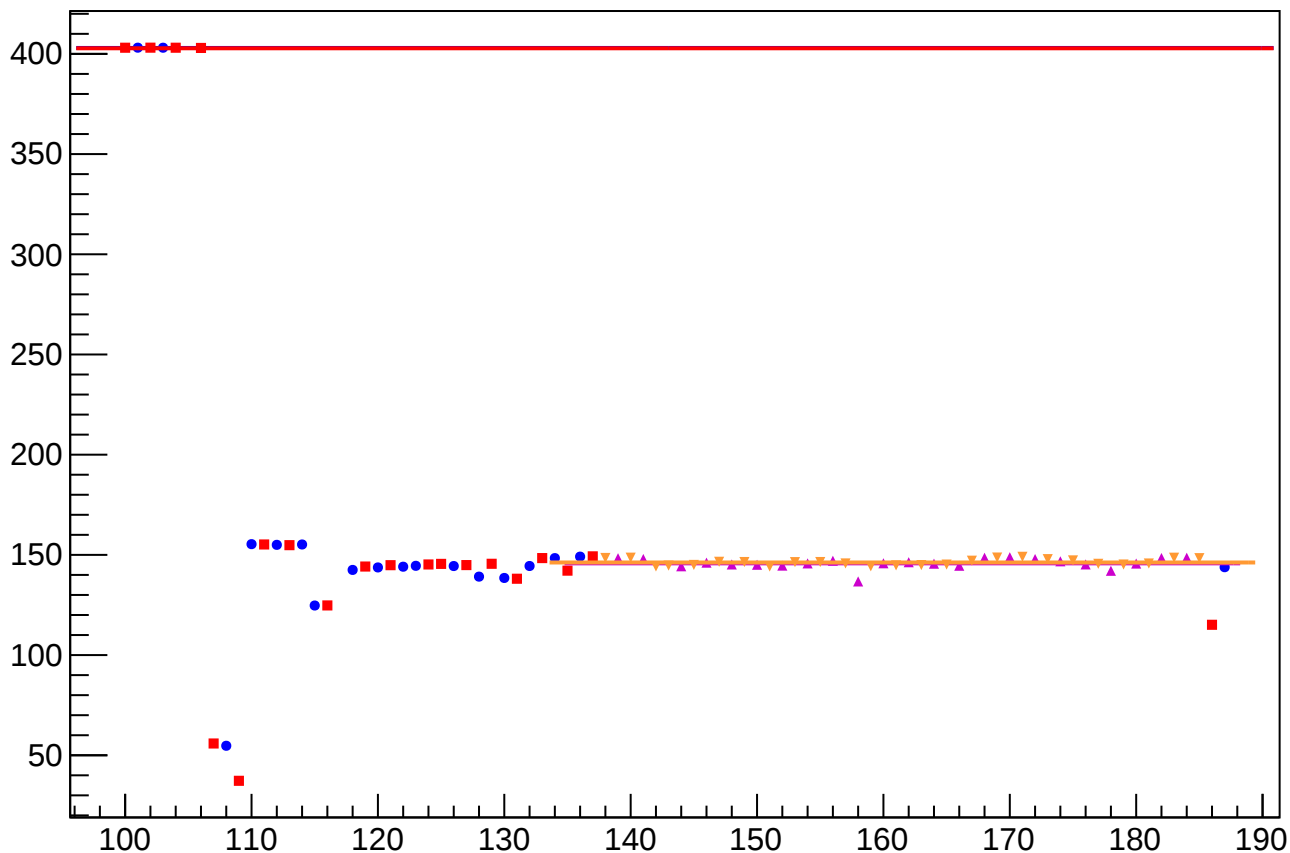
Right: 0.335 $\pm$ 0.000 χ^2 /NDF: 2478335.9/37

In: 0.405 $\pm$ 0.000 χ^2 /NDF:3251838.8/40

Out: 0.403 $\pm$ 0.000 χ^2 /NDF:3418169.3/44

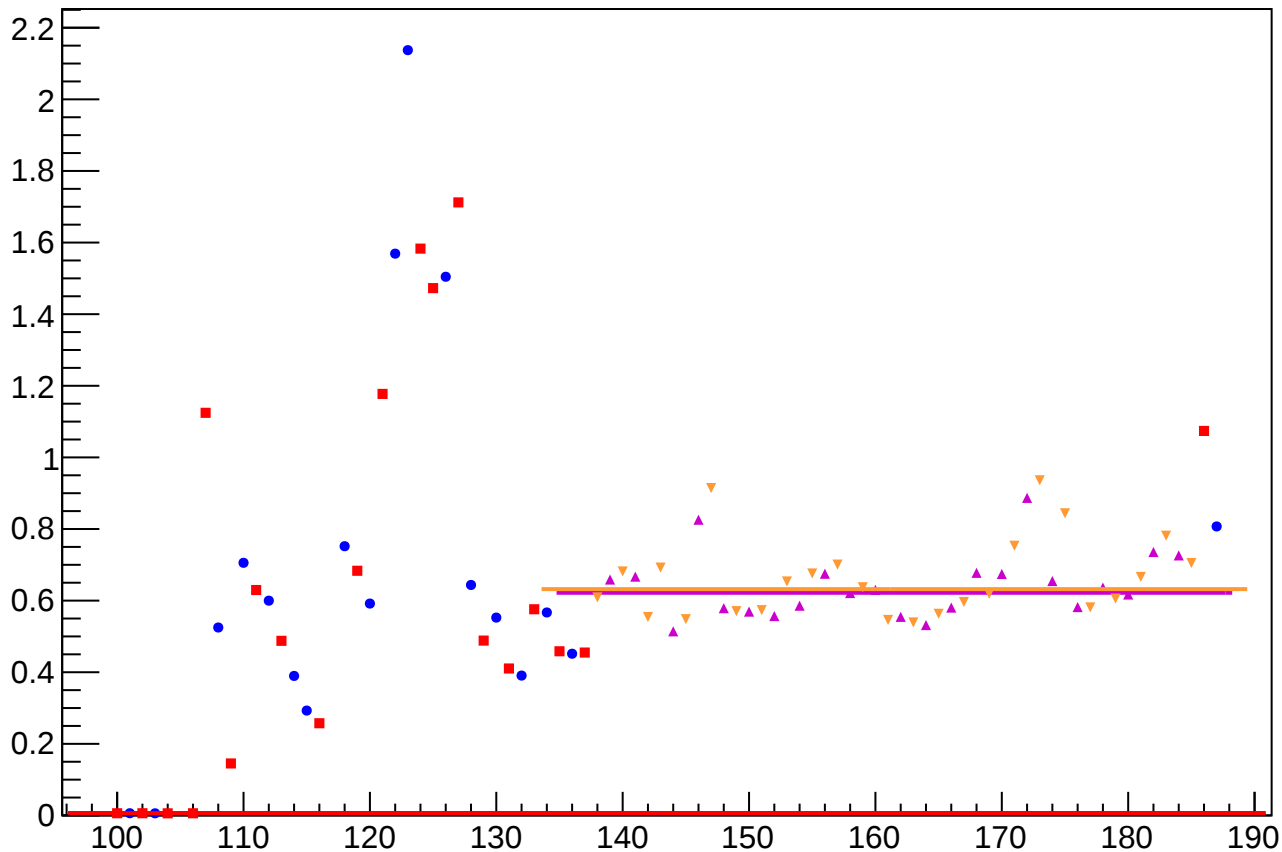
All: 0.404 $\pm$ 0.000 χ^2 /NDF: 6670666.8/85

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.956+/-0.000	χ^2/NDF : 1107914005459.9/17	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.871+/-0.000	χ^2/NDF : 4235941564889.9/17
Right Out: 402.796+/-0.000	χ^2/NDF : 3127606048178.3/19	In: 402.663+/-0.000	χ^2/NDF : 3457915726420.0/40
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.534+/-0.000	χ^2/NDF : 5496941000955.5/40
		All: 402.595+/-0.000	χ^2/NDF : 895512880713.3/17

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: 9792241.8/19

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

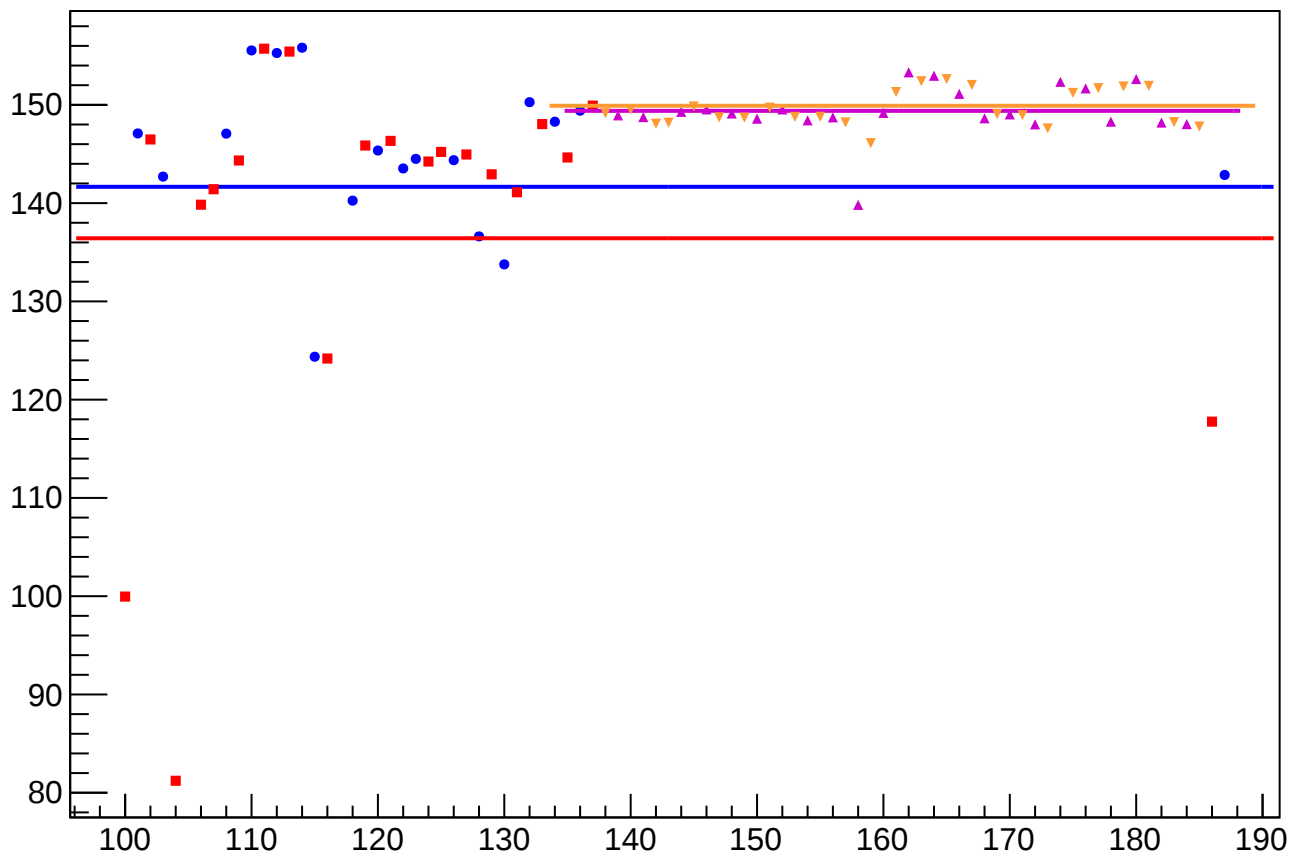
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 19075955.6/37

In: 0.007 $\pm$ 0.000 χ^2 /NDF: 36613942.4/40

Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 38589880.5/44

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 75203984.6/85

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.660 +/- 0.000

χ^2/NDF : 977777566.4/17

Left: 149.657 +/- 0.000

χ^2/NDF : 606930259.3/47

Left Out: 149.906 +/- 0.000

χ^2/NDF : 163261802.4/24

Right: 138.947 +/- 0.000

χ^2/NDF : 2677240213.9/37

Right Out: 136.425 +/- 0.000

χ^2/NDF : 1552516405.5/19

In: 148.010 +/- 0.000

χ^2/NDF : 1922786997.8/40

Out: 147.488 +/- 0.000

χ^2/NDF : 3375765802.5/44

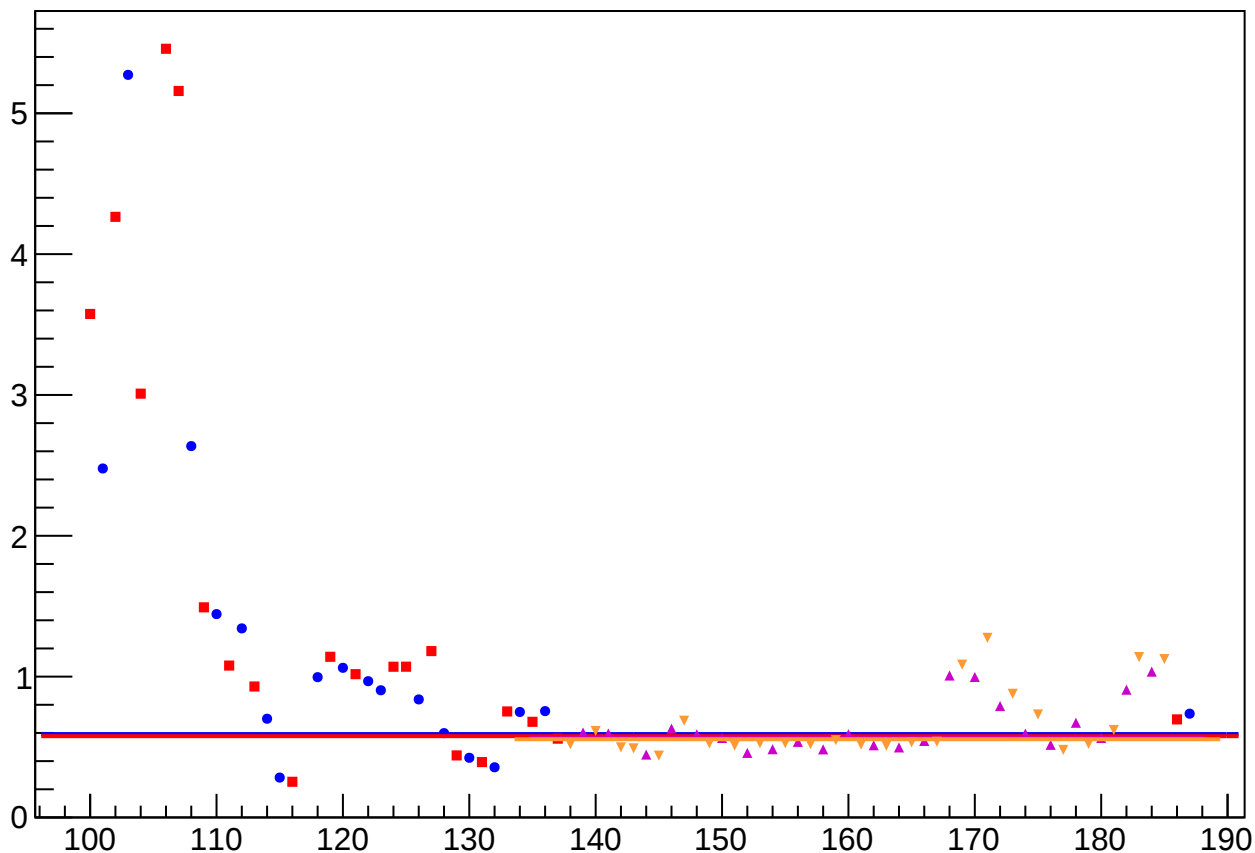
Left In: 149.391 +/- 0.000

χ^2/NDF : 437129920.4/22

All: 147.740 +/- 0.000

χ^2/NDF : 5306725577.2

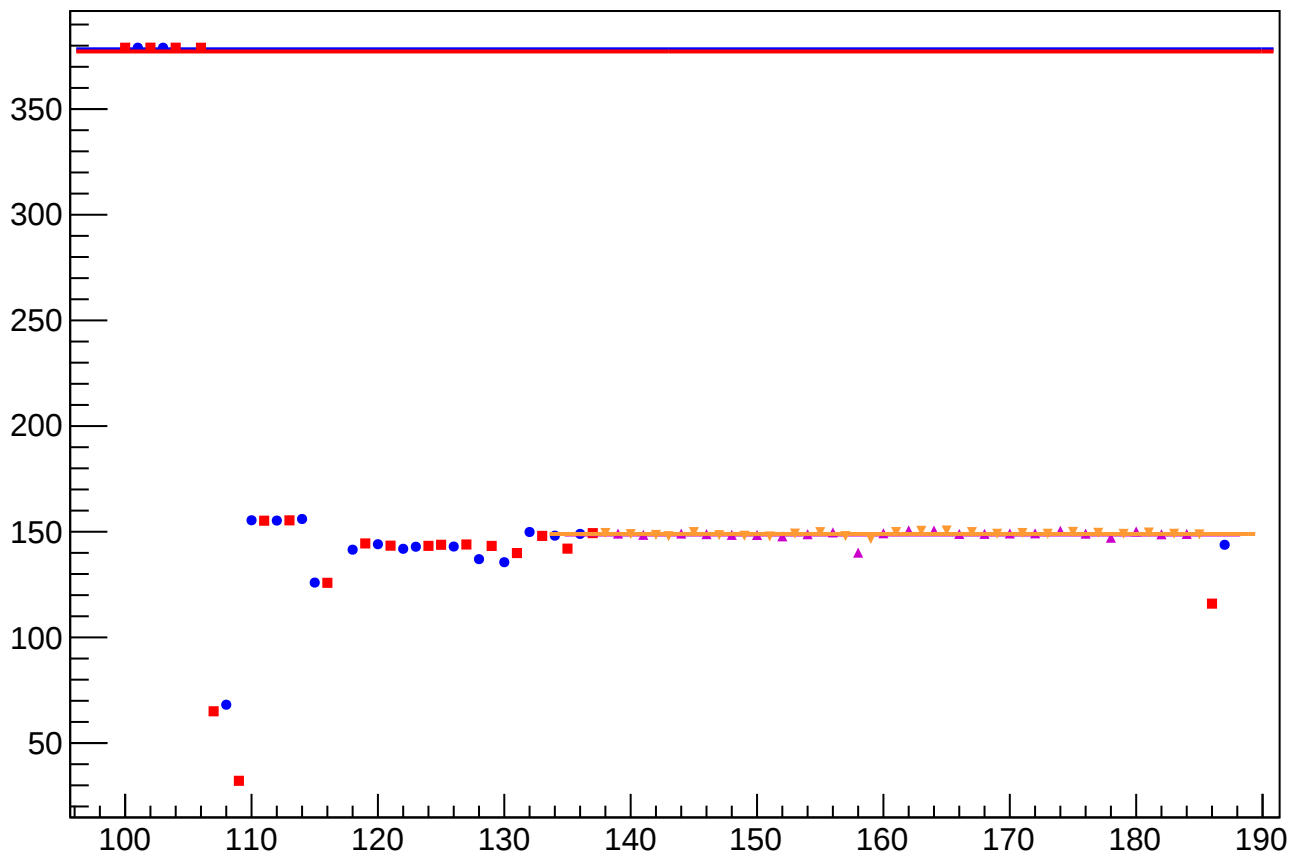
yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.592+/-0.000 χ^2/NDF : 3482435.2/17
Left Out: 0.555+/-0.000 χ^2/NDF :1773380.1/24
Right Out: 0.577+/-0.000 χ^2/NDF : 4665572.9/19
Left In: 0.562+/-0.000 χ^2/NDF :1311075.2/22

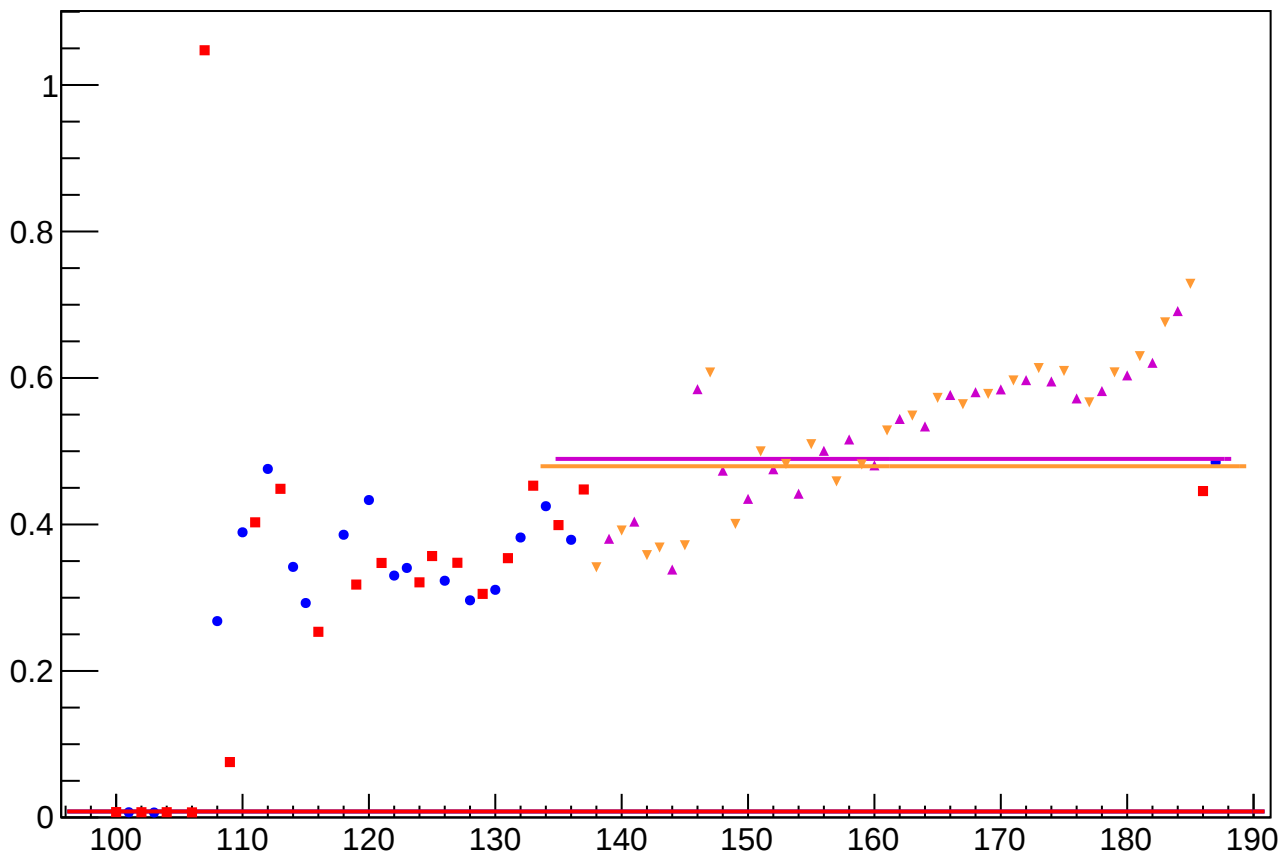
Left: 0.559+/-0.000 χ^2/NDF : 3086646.6/47
Right: 0.584+/-0.000 χ^2/NDF : 8150388.7/37
In: 0.567+/-0.000 χ^2/NDF :4808760.9/40
Out: 0.559+/-0.000 χ^2/NDF :6447577.1/44
All: 0.563+/-0.000 χ^2/NDF : 11260293.5/85

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.279+/-0.000	χ^2/NDF : 2518641256142.4/17	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.734+/-0.000	χ^2/NDF : 10935058895272.1
Right Out: 377.256+/-0.000	χ^2/NDF : 8408997383265.7/19	In: 377.097+/-0.000	χ^2/NDF : 6132679707462.8/40
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 376.136+/-0.000	χ^2/NDF : 12292038042048.3
		All: 376.585+/-0.000	χ^2/NDF : 184312996363.1

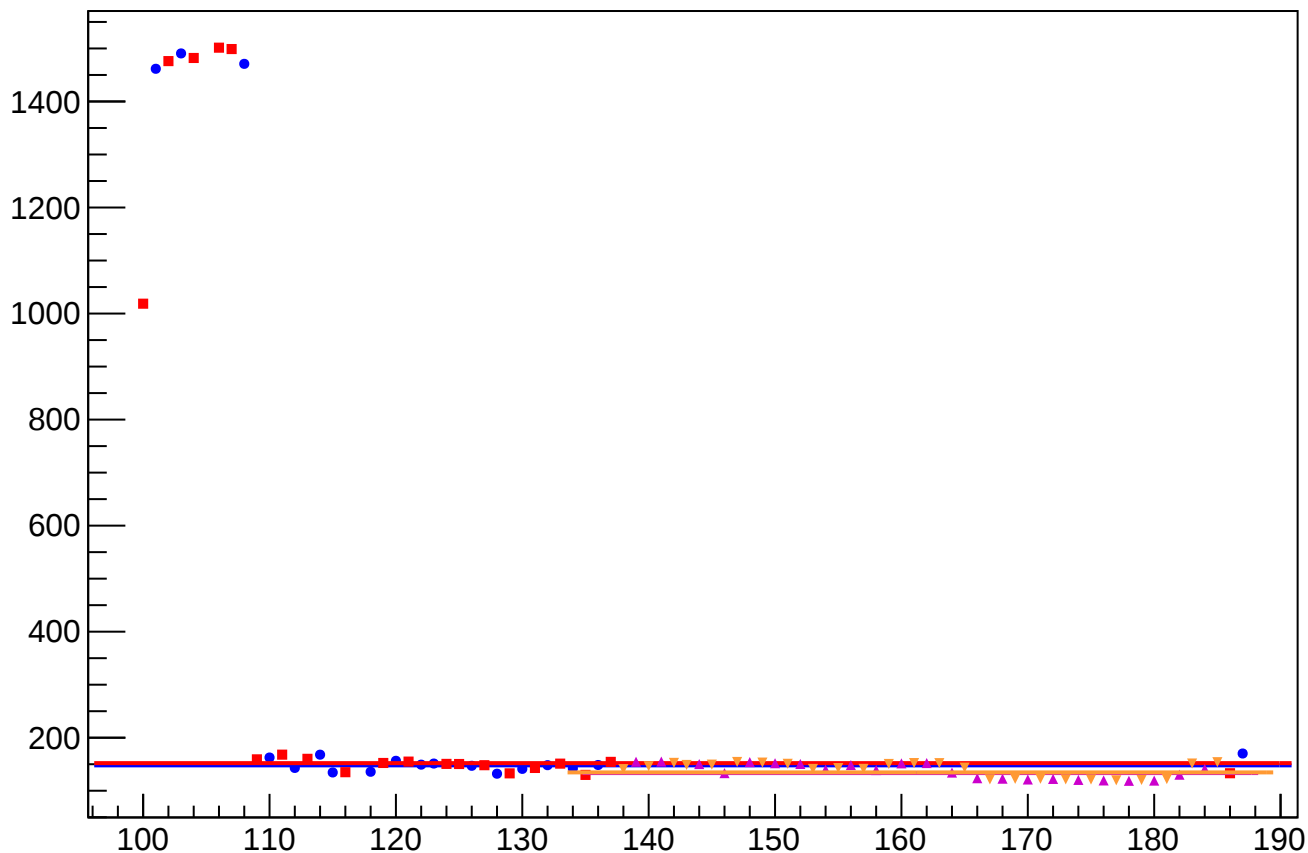
yield_cav4dQ_rms vs Slug, Sign Corrected



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 : 10179961.6/19
 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 : 20215083.8/37
 In: 0.011+/-0.000 χ^2/NDF :42897385.5/40
 Out: 0.011+/-0.000 χ^2/NDF :44791218.0/44
 All: 0.011+/-0.000 χ^2/NDF : 87688762.5/85

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 147.860 $\pm$ 0.000 χ^2 /NDF: 24476921289.8/17

Left Out: 134.585 $\pm$ 0.000 χ^2 /NDF: 4387324151.1/24

Right Out: 152.072 $\pm$ 0.000 χ^2 /NDF: 33958775492.2/19

Left In: 133.309 $\pm$ 0.000 χ^2 /NDF: 4353039408.6/22

Left: 133.958 $\pm$ 0.000 χ^2 /NDF: 8759337937.7/47

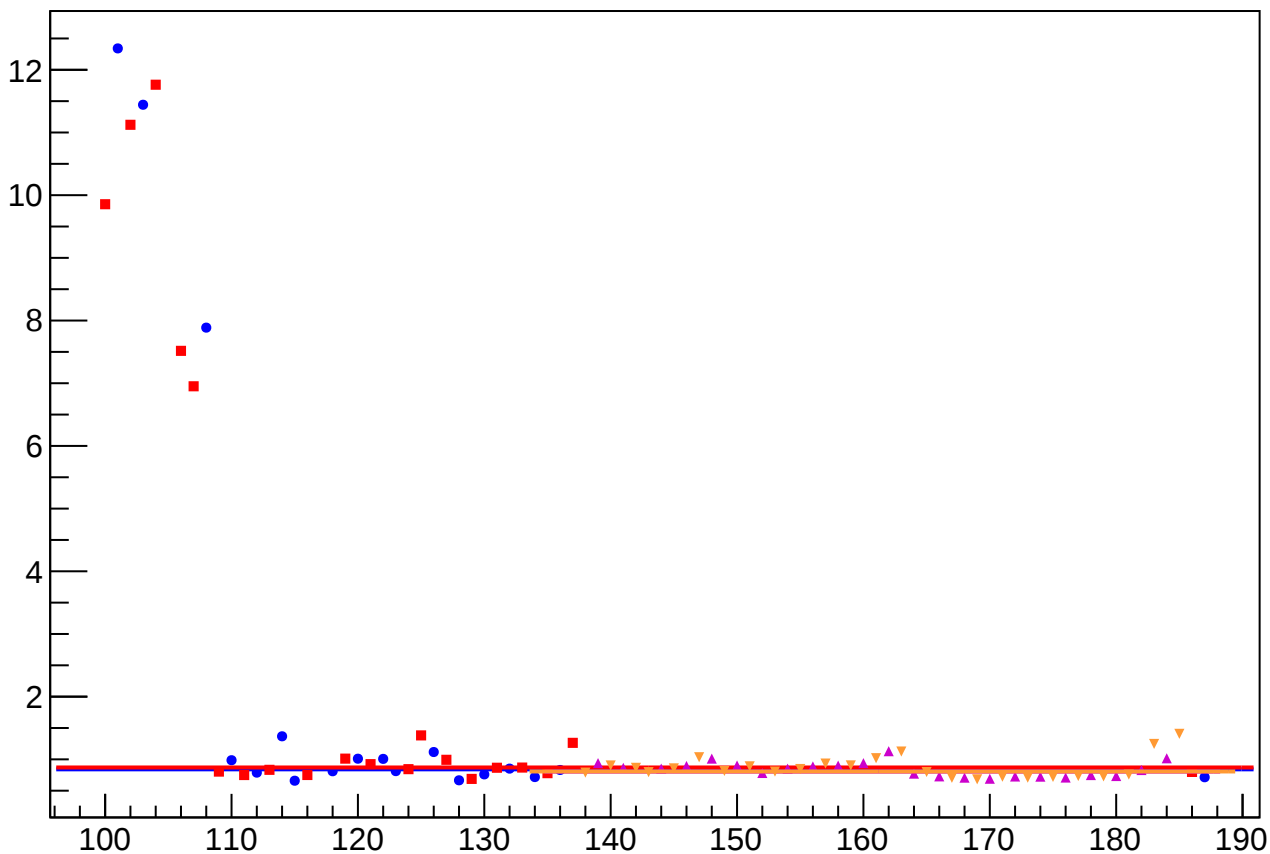
Right: 150.010 $\pm$ 0.000 χ^2 /NDF: 58485467825.1/37

In: 136.120 $\pm$ 0.000 χ^2 /NDF: 29768423272.3/40

Out: 137.985 $\pm$ 0.000 χ^2 /NDF: 39757577698.0/44

All: 137.069 $\pm$ 0.000 χ^2 /NDF: 69576318121.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.841 $\pm$ 0.000 χ^2 /NDF: 2676063.9/17

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.870 $\pm$ 0.000 χ^2 /NDF: 2833593.7/19

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:479689.4/22

Left: 0.806 $\pm$ 0.000 χ^2 /NDF: 1183976.9/47

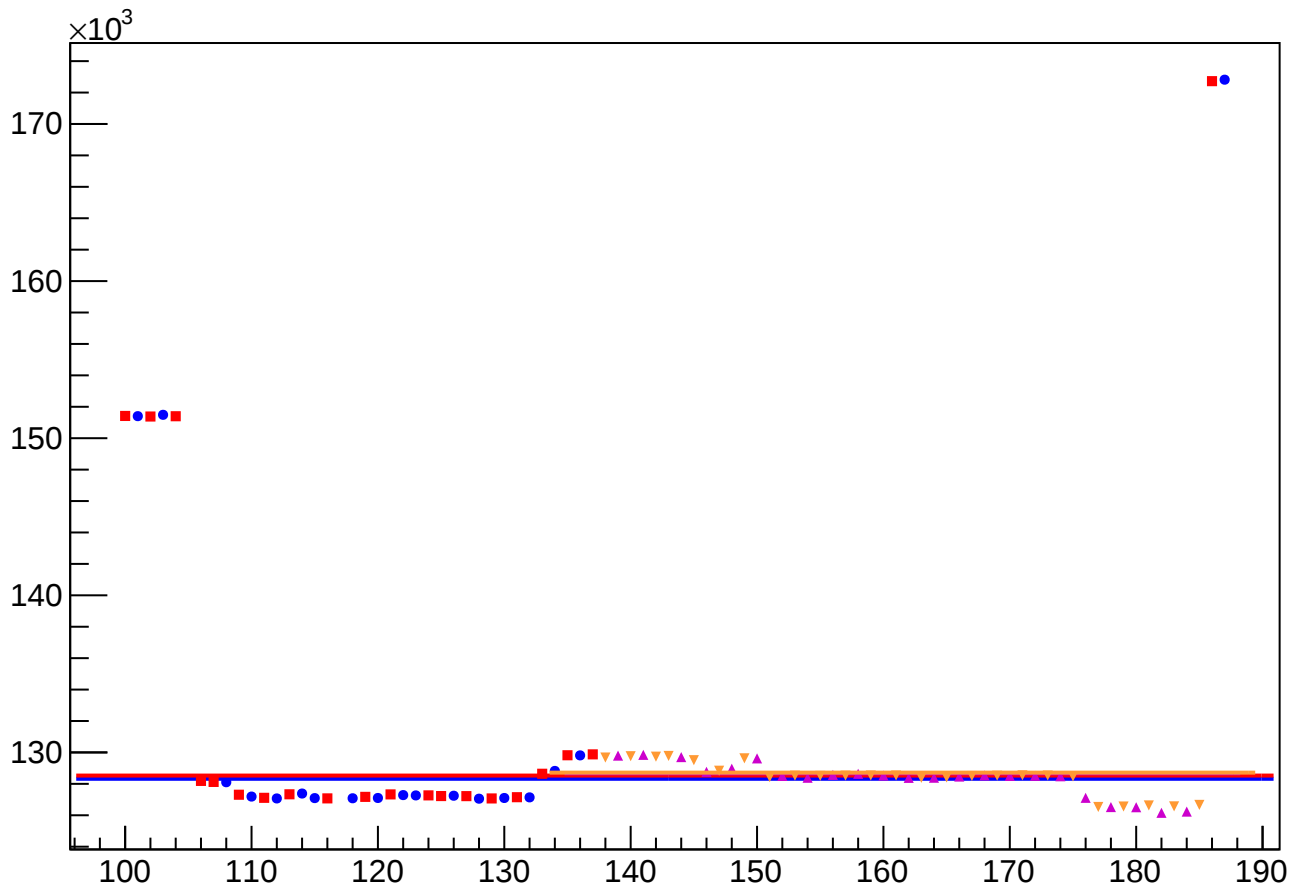
Right: 0.856 $\pm$ 0.000 χ^2 /NDF: 5514595.5/37

In: 0.812 $\pm$ 0.000 χ^2 /NDF:3167304.2/40

Out: 0.819 $\pm$ 0.000 χ^2 /NDF:3575151.2/44

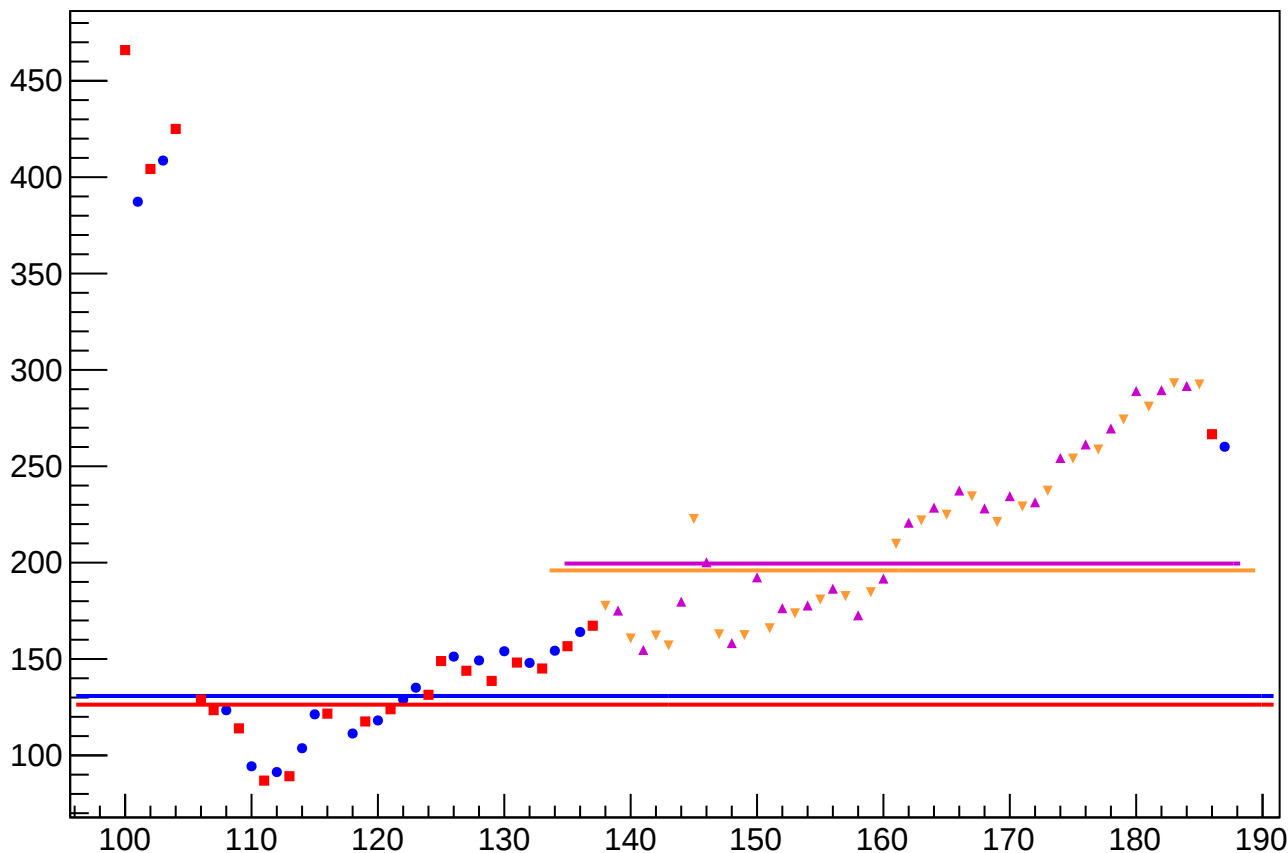
All: 0.815 $\pm$ 0.000 χ^2 /NDF: 6744097.6/85

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128321.933 $\pm$ 0.054 χ^2 /NDF: 8754096079.9/17
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 128527.021 $\pm$ 0.050 χ^2 /NDF: 14341548187.9/19
 Left In: 128670.094 $\pm$ 0.049 χ^2 /NDF: 334875494.0/22
 Left: 128692.941 $\pm$ 0.034 χ^2 /NDF: 683588051.4/47
 Right: 128433.110 $\pm$ 0.037 χ^2 /NDF: 23103334309.9/17
 In: 128514.896 $\pm$ 0.036 χ^2 /NDF: 9111629973.3/40
 Out: 128626.953 $\pm$ 0.034 χ^2 /NDF: 14697294222.5/17
 All: 128574.468 $\pm$ 0.025 χ^2 /NDF: 238139748.0/17

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 130.816+/-0.039 χ^2/NDF : 1559062.0/17

Left Out: 195.964+/-0.033 χ^2/NDF : 1316091.7/24

Right Out: 126.322+/-0.035 χ^2/NDF : 1738914.2/19

Left In: 199.531+/-0.035 χ^2/NDF : 1175342.5/22

Left: 197.666+/-0.024 χ^2/NDF : 2497014.2/47

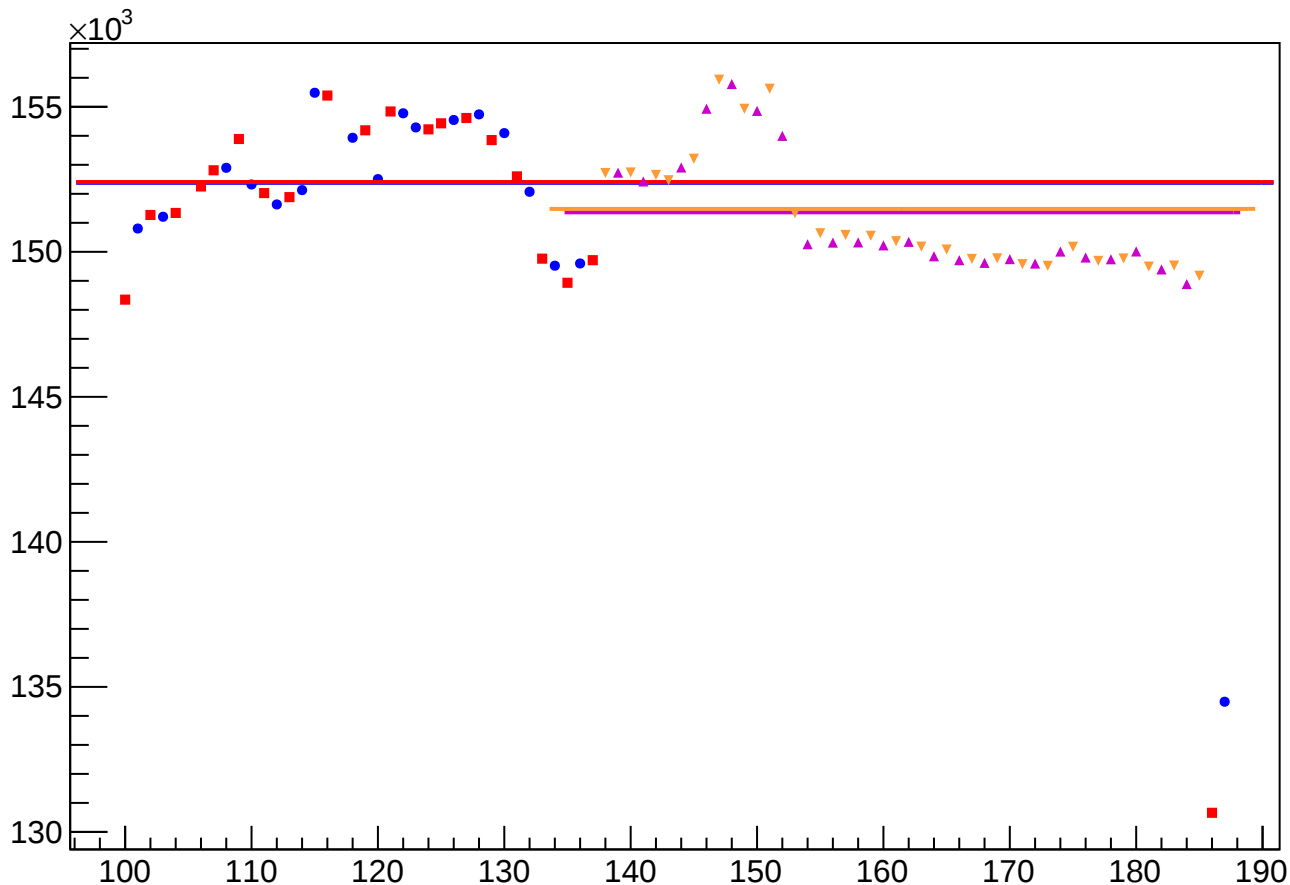
Right: 128.380+/-0.026 χ^2/NDF : 3305361.6/37

In: 168.900+/-0.026 χ^2/NDF : 4499647.9/40

Out: 163.584+/-0.024 χ^2/NDF : 5127256.5/44

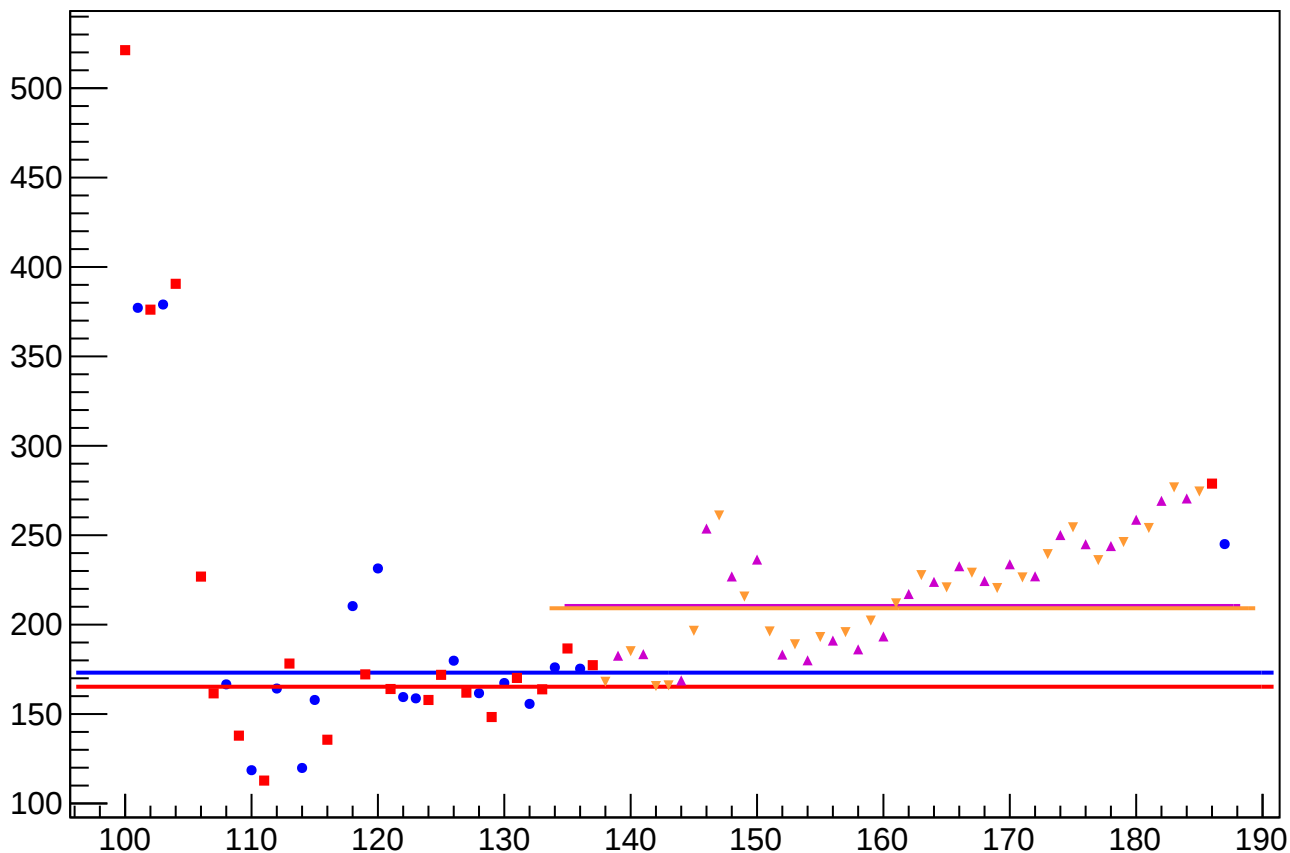
All: 166.074+/-0.018 χ^2/NDF : 9649639.4/85

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152379.768 $\pm$ 0.072	χ^2 /NDF: 1396075849.7/17	Left: 151423.440 $\pm$ 0.036	χ^2 /NDF: 2913216467.1/4
Left Out: 151480.339 $\pm$ 0.049	χ^2 /NDF: 1483692735.3/24	Right: 152394.438 $\pm$ 0.048	χ^2 /NDF: 4472307188.6/4
Right Out: 152406.612 $\pm$ 0.066	χ^2 /NDF: 3076155223.3/19	In: 151704.774 $\pm$ 0.042	χ^2 /NDF: 2955590221.8/40
Left In: 151362.440 $\pm$ 0.051	χ^2 /NDF: 1426782789.9/22	Out: 151816.660 $\pm$ 0.039	χ^2 /NDF: 4687132349.4/4
		All: 151763.804 $\pm$ 0.029	χ^2 /NDF: 764651638.0/10

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: 165.276 $\pm$ 0.046 χ^2 /NDF: 1159880.0/19

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

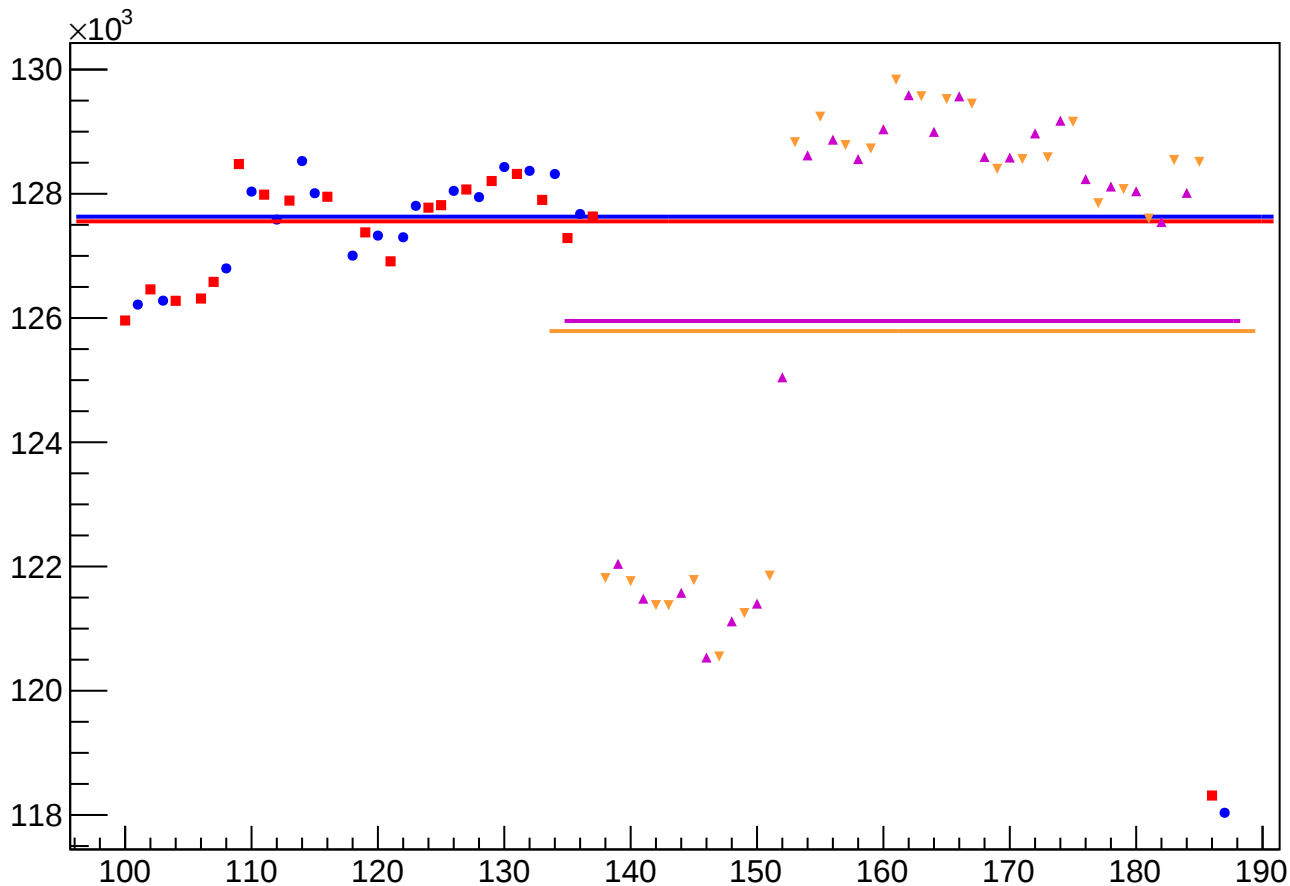
Right: 168.847 $\pm$ 0.034 χ^2 /NDF: 2123728.1/37

In: 197.885 $\pm$ 0.030 χ^2 /NDF: 1991271.3/40

Out: 193.223 $\pm$ 0.028 χ^2 /NDF: 2441252.6/44

All: 195.426 $\pm$ 0.020 χ^2 /NDF: 4445696.8/85

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127631.416 $\pm$ 0.058

χ^2 /NDF: 335402909.0/17

Left: 125870.001 $\pm$ 0.031

χ^2 /NDF: 12592819321.6/17

Right: 127591.051 $\pm$ 0.040

χ^2 /NDF: 981525509.6/3

Left Out: 125790.126 $\pm$ 0.044

χ^2 /NDF: 6744310079.8/24

Right Out: 127556.176 $\pm$ 0.054

χ^2 /NDF: 645224567.4/19

Left In: 125952.447 $\pm$ 0.045

χ^2 /NDF: 5841800367.5/22

In: 126575.354 $\pm$ 0.035

χ^2 /NDF: 6701499072.6/40

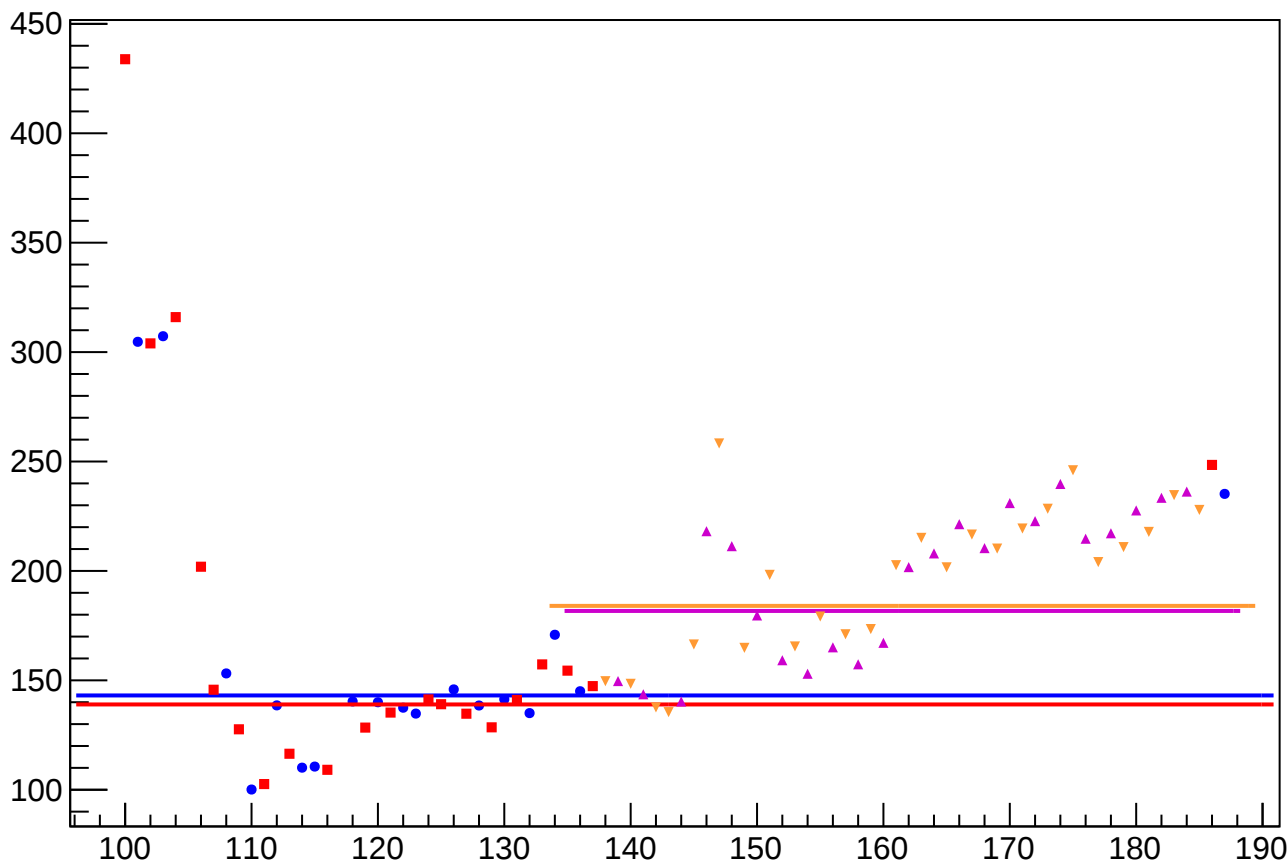
Out: 126493.189 $\pm$ 0.034

χ^2 /NDF: 8032015551.0/4

All: 126532.718 $\pm$ 0.025

χ^2 /NDF: 147363067.5/17

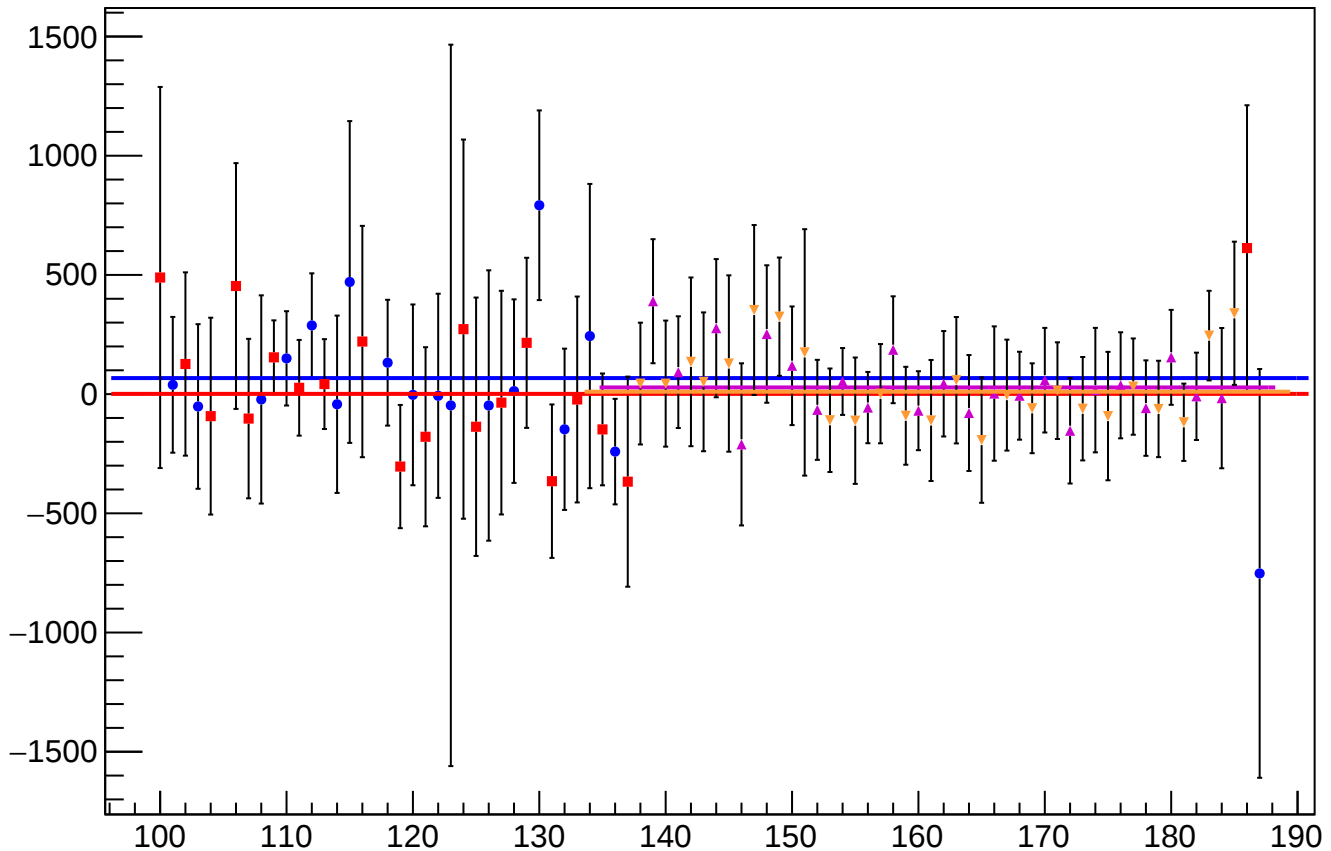
yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 143.095 $\pm$ 0.041 χ^2/NDF : 880782.1/17
 Left Out: 184.029 $\pm$ 0.031 χ^2/NDF : 1126592.5/24
 Right Out: 138.983 $\pm$ 0.038 χ^2/NDF : 1106282.7/19
 Left In: 181.714 $\pm$ 0.032 χ^2/NDF : 1116142.0/22

Left: 182.890 $\pm$ 0.022 χ^2/NDF : 2245464.4/47
 Right: 140.889 $\pm$ 0.028 χ^2/NDF : 1992429.4/37
 In: 167.386 $\pm$ 0.025 χ^2/NDF : 2551695.0/40
 Out: 166.096 $\pm$ 0.024 χ^2/NDF : 3068853.3/44
 All: 166.717 $\pm$ 0.017 χ^2/NDF : 5621924.1/85

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: 1.048+/-69.635 χ^2/NDF : 8.2/19

Left In: 28.050+/-44.573 χ^2/NDF : 7.0/22

Left: 19.632+/-32.499 χ^2/NDF : 15.5/47

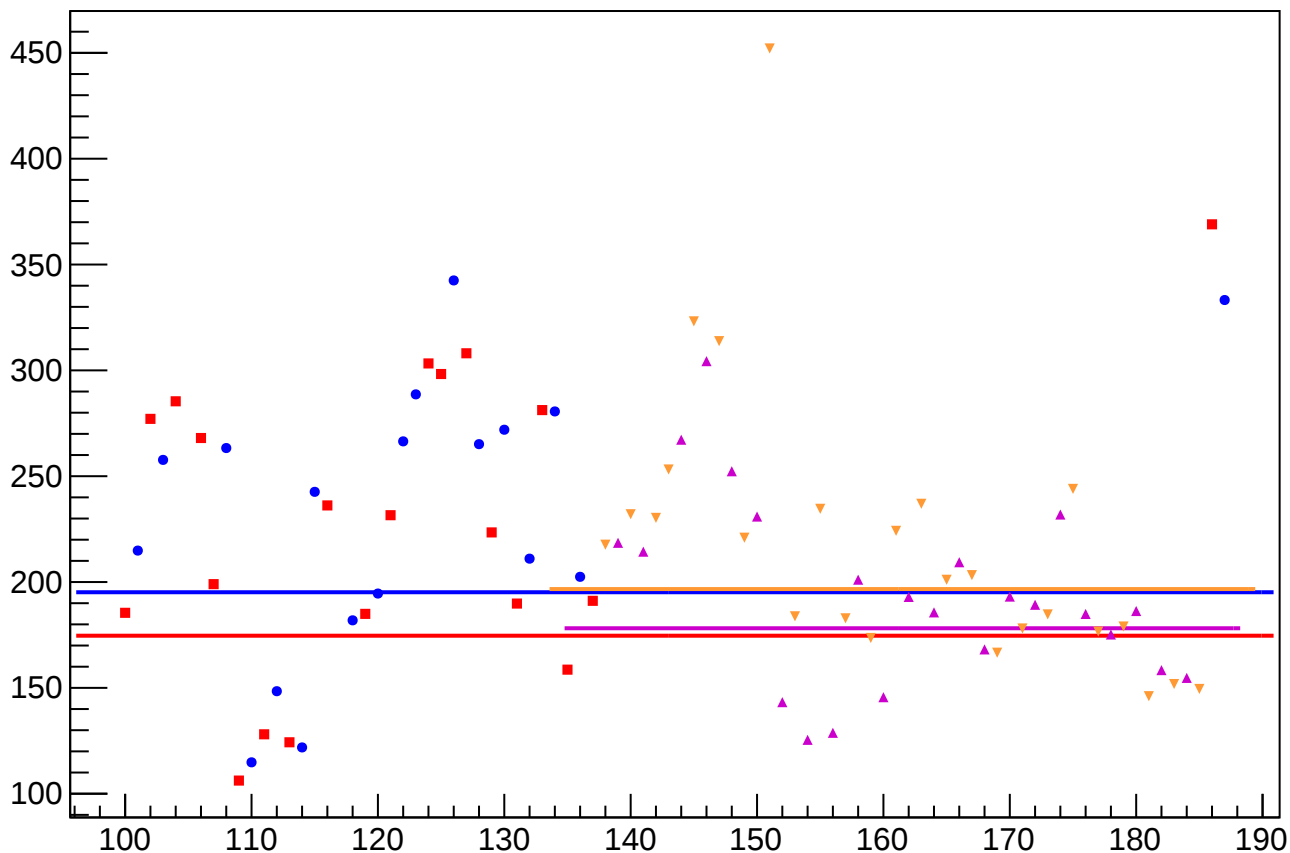
Right: 29.819+/-52.378 χ^2/NDF : 17.3/37

In: 37.441+/-38.877 χ^2/NDF : 15.8/40

Out: 7.211+/-39.233 χ^2/NDF : 16.7/44

All: 22.464+/-27.615 χ^2/NDF : 32.8/85

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: 174.644 ± 0.049 χ^2/NDF : 1787975.5/19

Left In: 178.166 ± 0.032 χ^2/NDF : 1618967.9/22

Left: 186.838 ± 0.023 χ^2/NDF : 3563331.3/47

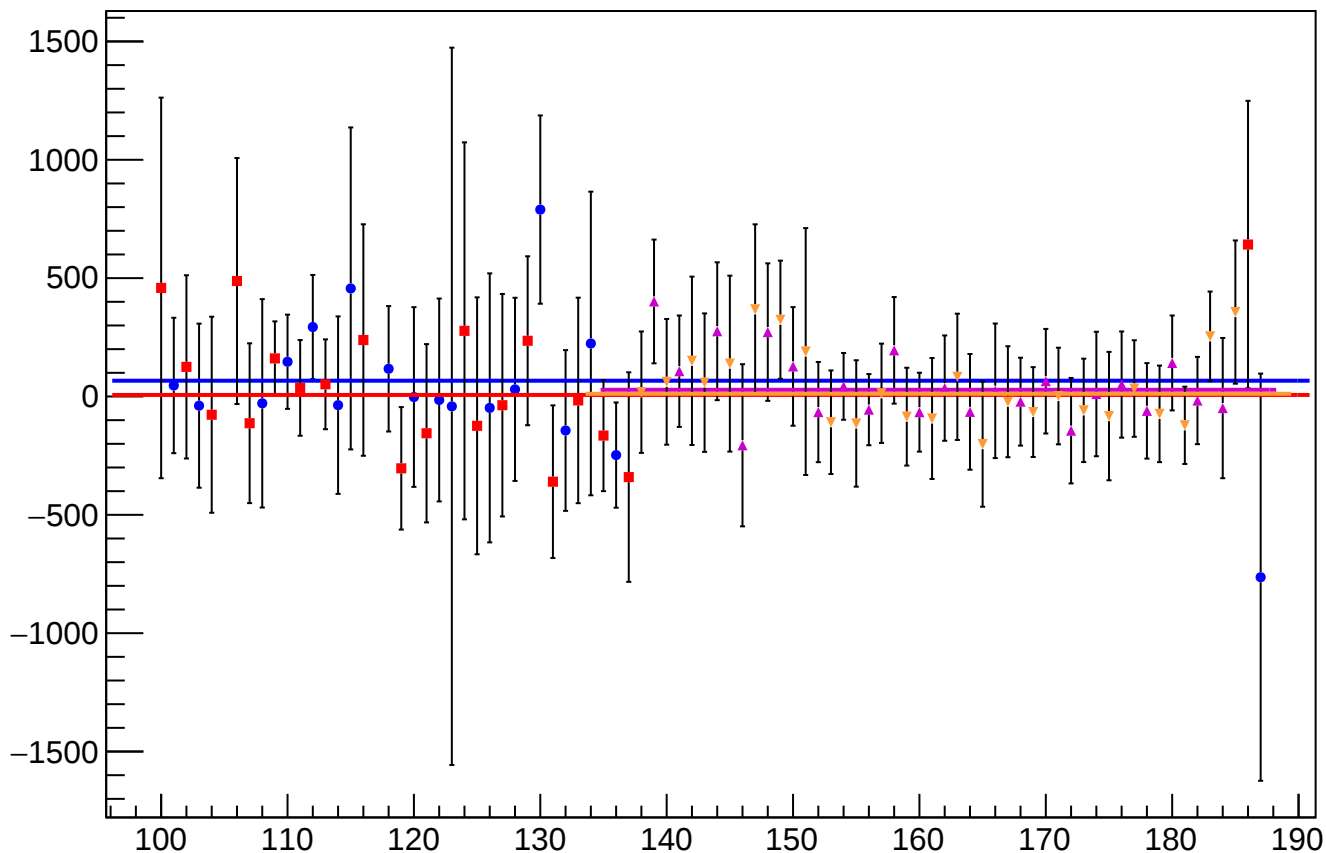
Right: 183.560 ± 0.037 χ^2/NDF : 2934663.6/37

In: 182.235 ± 0.027 χ^2/NDF : 2759841.5/40

Out: 189.686 ± 0.028 χ^2/NDF : 3707413.6/44

All: 185.927 ± 0.020 χ^2/NDF : 6503649.0/85

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: 6.525 $\pm$ 70.010 χ^2 /NDF: 8.5/19

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

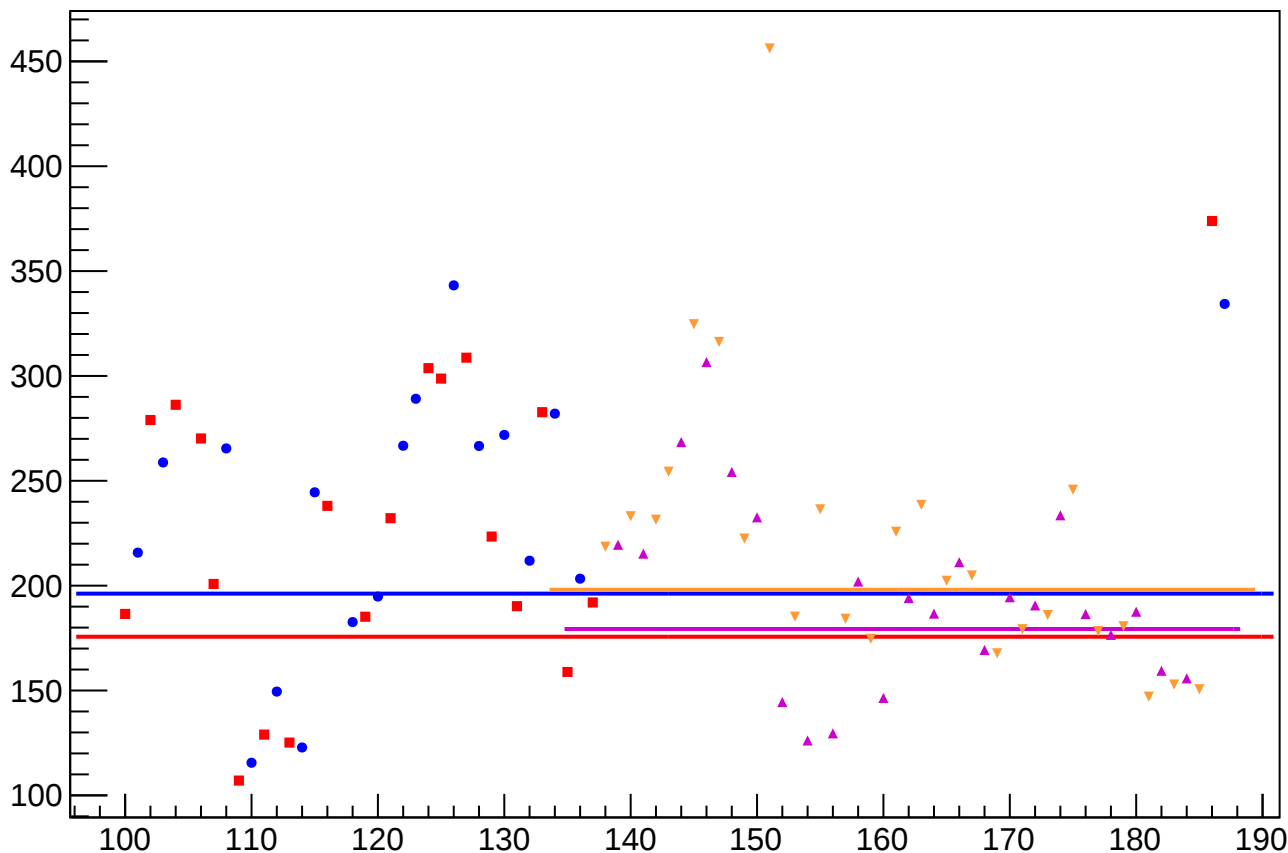
Right: 32.648 $\pm$ 52.648 χ^2 /NDF: 17.4/37

In: 37.482 $\pm$ 39.116 χ^2 /NDF:15.9/40

Out: 9.903 $\pm$ 39.487 χ^2 /NDF:17.3/44

All: 23.823 $\pm$ 27.789 χ^2 /NDF: 33.4/85

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 196.193 ± 0.056 χ^2/NDF : 1062358.5/17

Left Out: 198.059 ± 0.034 χ^2/NDF : 1778526.5/24

Right Out: 175.645 ± 0.050 χ^2/NDF : 1778526.3/19

Left In: 179.324 ± 0.032 χ^2/NDF : 1618266.2/22

Left: 188.094 ± 0.023 χ^2/NDF : 3560073.1/47

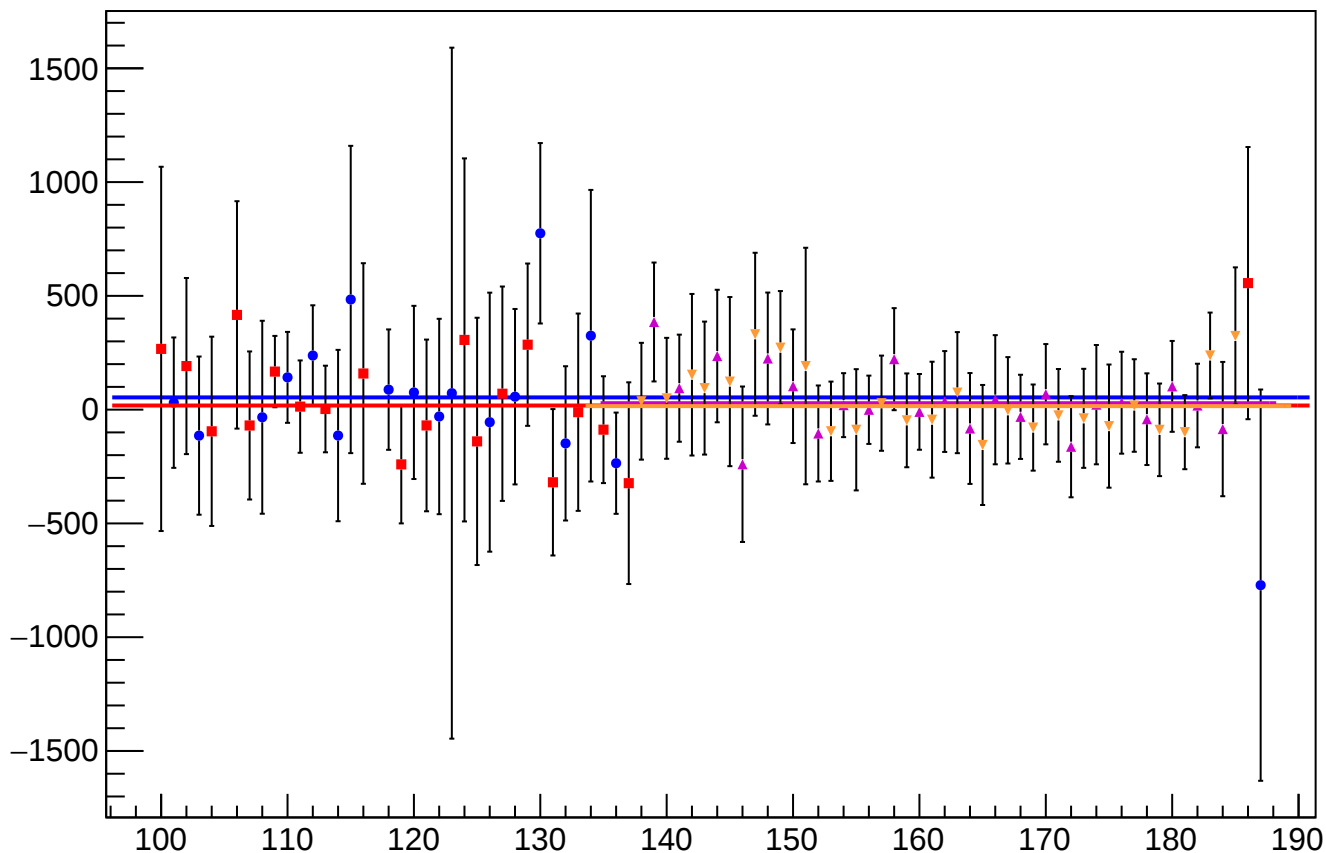
Right: 184.573 ± 0.037 χ^2/NDF : 2915735.6/37

In: 183.369 ± 0.028 χ^2/NDF : 2748438.2/40

Out: 190.929 ± 0.028 χ^2/NDF : 3696832.7/44

All: 187.113 ± 0.020 χ^2/NDF : 6482264.8/85

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: 18.121 $\pm$ 69.919 χ^2 /NDF: 6.6/19

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

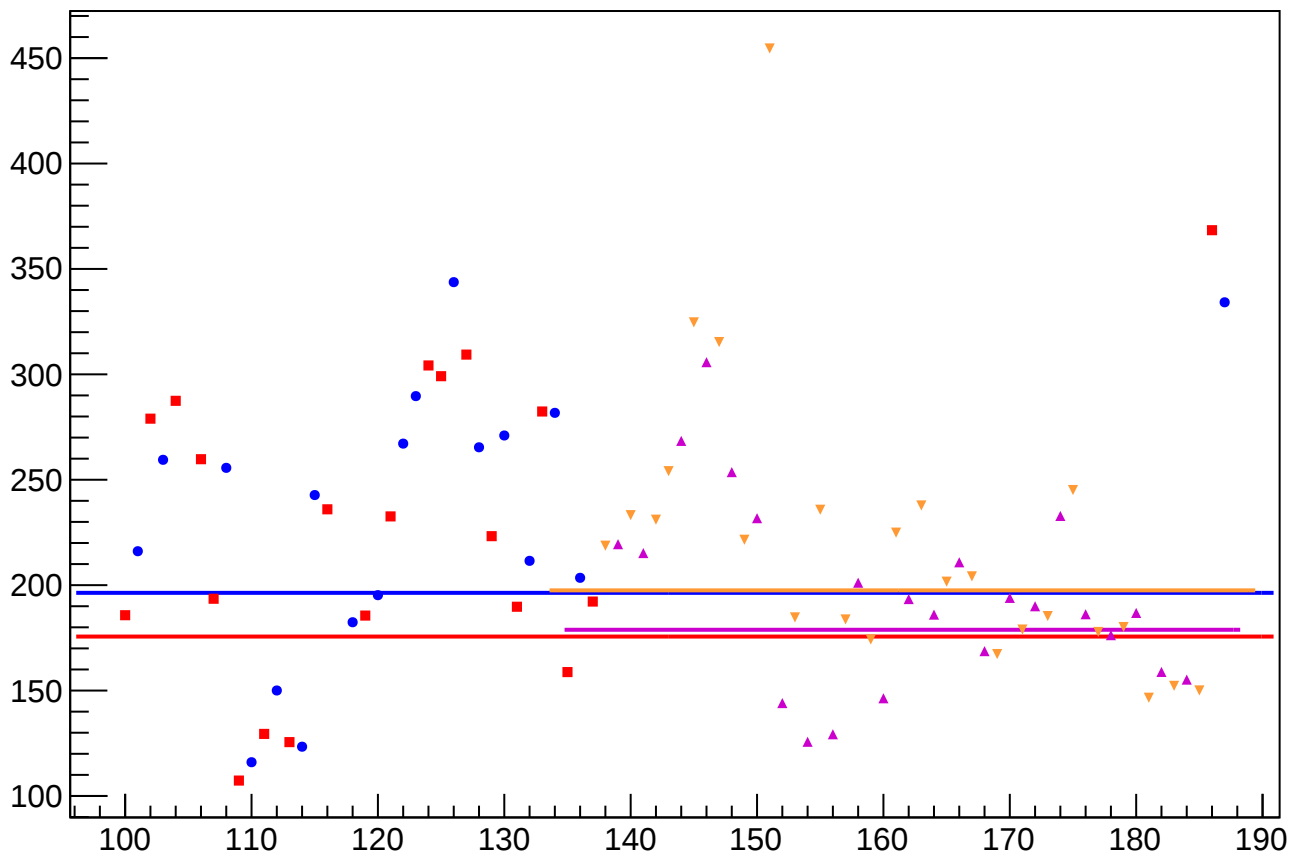
Right: 33.577 $\pm$ 52.608 χ^2 /NDF: 15.1/37

In: 34.360 $\pm$ 39.035 χ^2 /NDF:14.8/40

Out: 16.290 $\pm$ 39.401 χ^2 /NDF:13.6/44

All: 25.409 $\pm$ 27.730 χ^2 /NDF: 28.5/85

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 196.356 $\pm$ 0.056 χ^2 /NDF: 1040148.1/17

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF: 1784225.5/24

Right Out: 175.618 $\pm$ 0.049 χ^2 /NDF: 1749929.7/19

Left In: 178.836 $\pm$ 0.032 χ^2 /NDF: 1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2 /NDF: 3569877.1/47

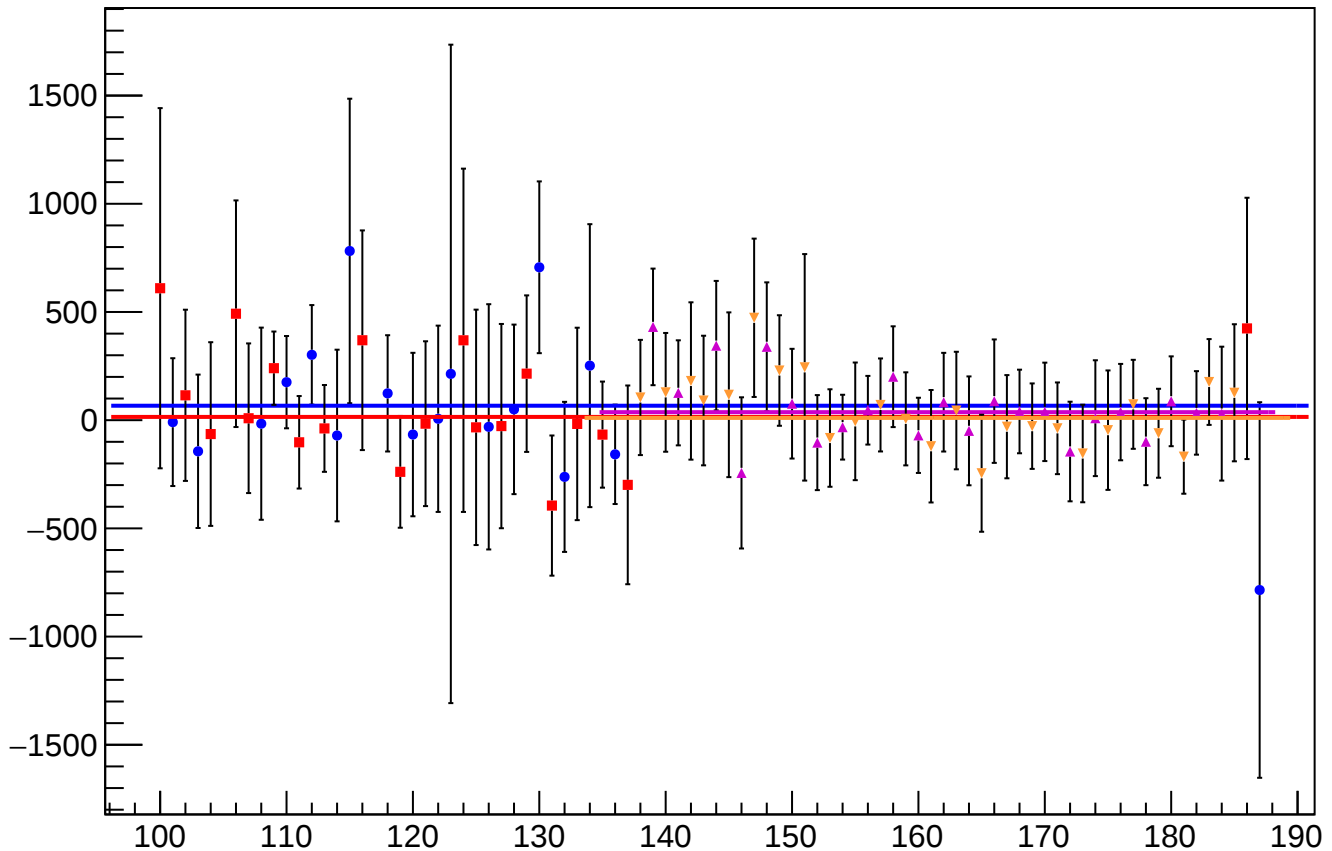
Right: 184.616 $\pm$ 0.037 χ^2 /NDF: 2866412.2/37

In: 183.021 $\pm$ 0.028 χ^2 /NDF: 2735668.4/40

Out: 190.570 $\pm$ 0.028 χ^2 /NDF: 3668169.2/44

All: 186.760 $\pm$ 0.020 χ^2 /NDF: 6440891.1/85

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: 15.091 $\pm$ 72.818 χ^2 /NDF: 8.2/19

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

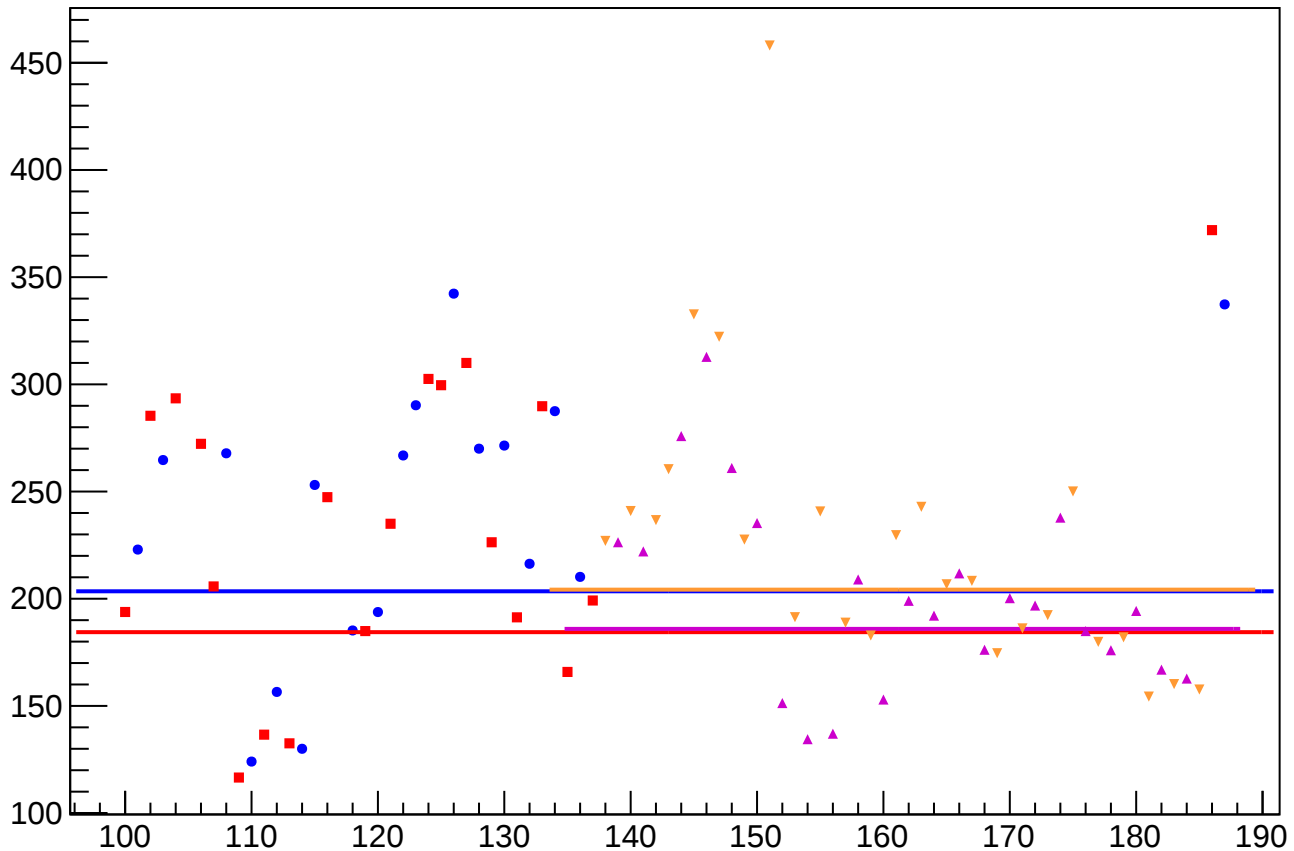
Right: 37.775 $\pm$ 54.556 χ^2 /NDF: 17.1/37

In: 44.168 $\pm$ 40.399 χ^2 /NDF: 16.6/40

Out: 11.962 $\pm$ 40.765 χ^2 /NDF: 15.7/44

All: 28.210 $\pm$ 28.695 χ^2 /NDF: 32.6/85

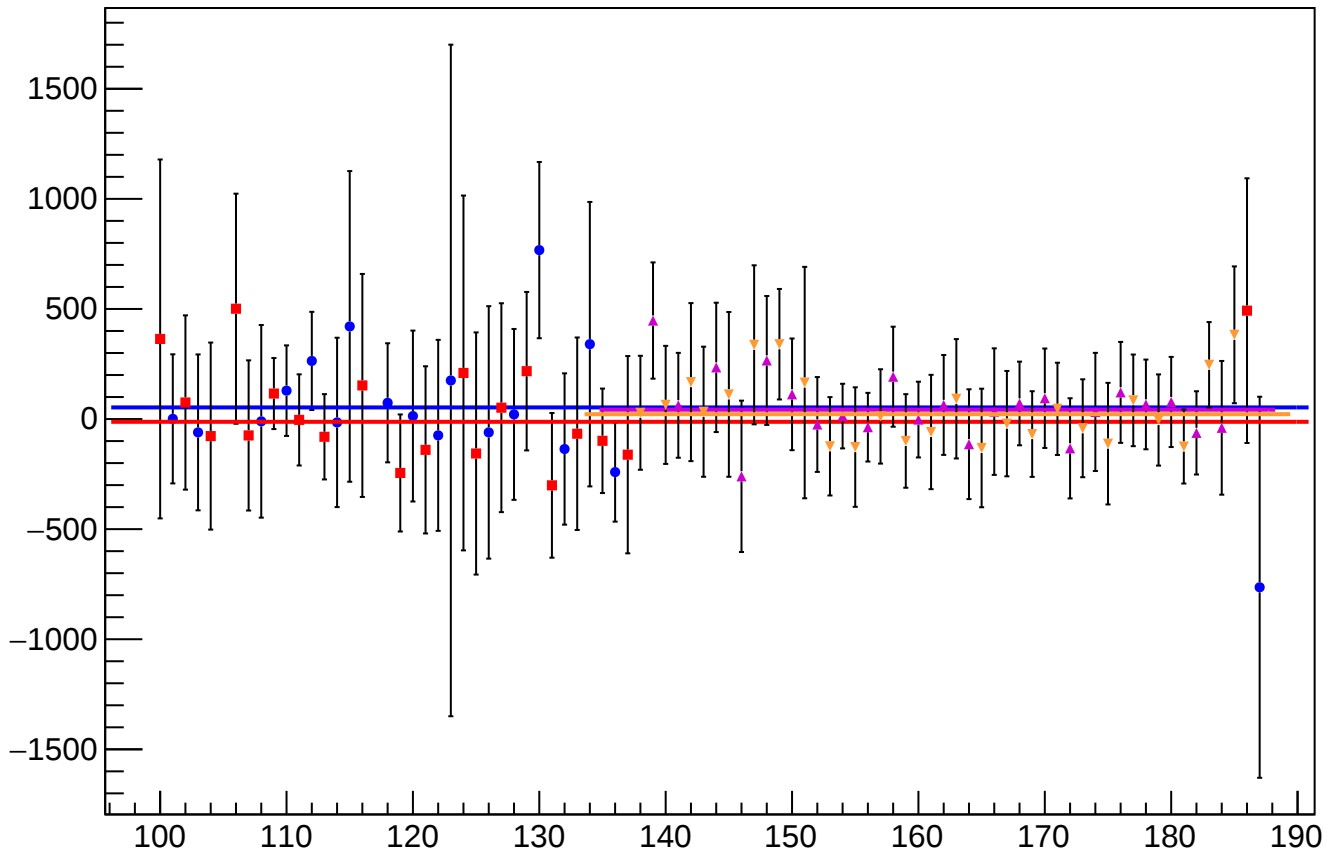
asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 203.468 ± 0.058 $\chi^2/\text{NDF}: 931731.8/17$
 Left Out: 204.236 ± 0.035 $\chi^2/\text{NDF}: 1675666.0/24$
 Right Out: 184.407 ± 0.051 $\chi^2/\text{NDF}: 1569256.5/19$
 Left In: 185.931 ± 0.033 $\chi^2/\text{NDF}: 1460065.0/22$

Left: 194.540 ± 0.024 $\chi^2/\text{NDF}: 3282383.3/47$
 Right: 192.769 ± 0.039 $\chi^2/\text{NDF}: 2561102.1/37$
 In: 190.150 ± 0.029 $\chi^2/\text{NDF}: 2460643.6/40$
 Out: 198.022 ± 0.029 $\chi^2/\text{NDF}: 3346742.6/44$
 All: 194.050 ± 0.020 $\chi^2/\text{NDF}: 5845010.2/85$

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: -12.520 $\pm$ 71.404 χ^2 /NDF: 5.3/19

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

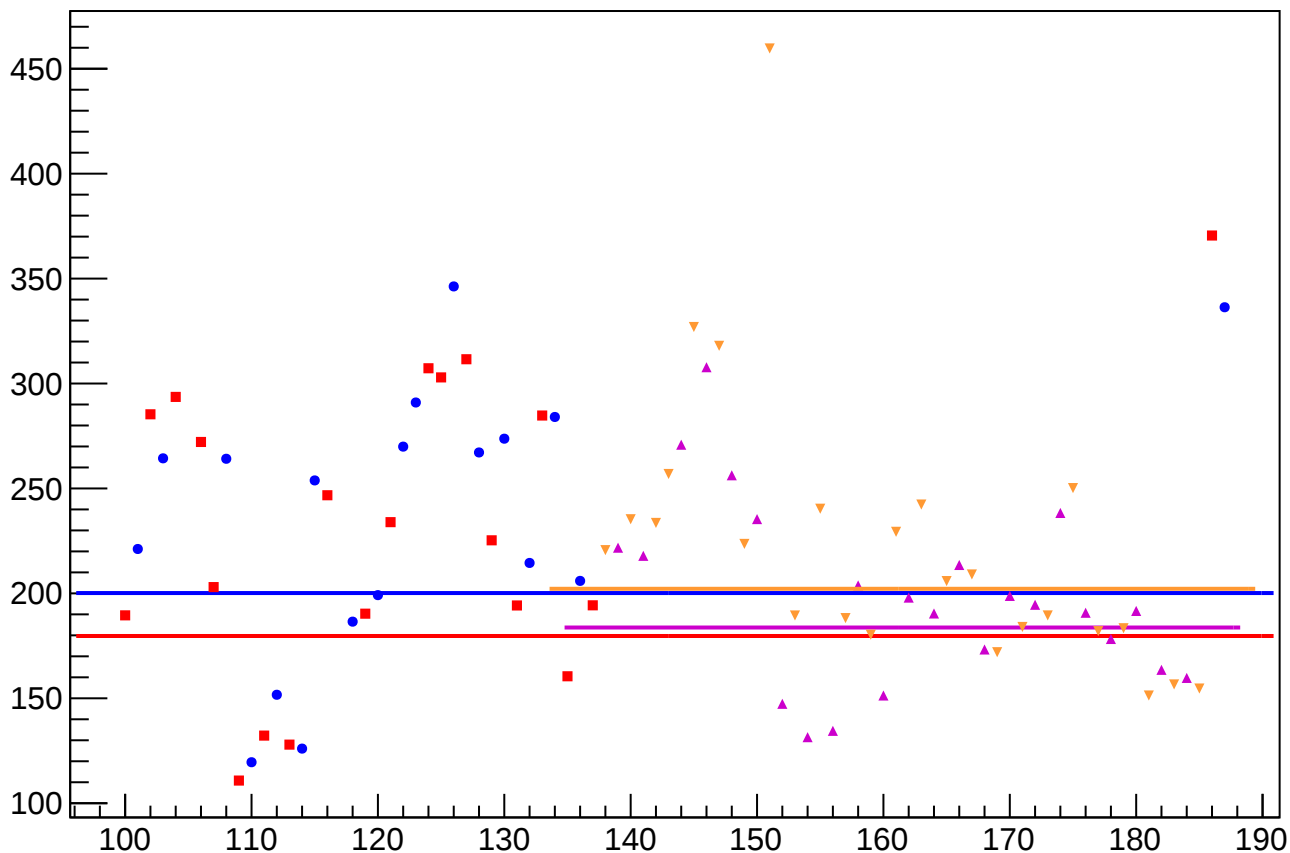
Right: 15.945 $\pm$ 53.649 χ^2 /NDF: 13.6/37

In: 44.956 $\pm$ 39.943 χ^2 /NDF:14.7/40

Out: 11.157 $\pm$ 40.255 χ^2 /NDF:13.9/44

All: 28.188 $\pm$ 28.354 χ^2 /NDF: 28.9/85

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: 179.693 ± 0.050 χ^2/NDF : 1723997.3/19

Left In: 183.732 ± 0.032 χ^2/NDF : 1495930.4/22

Left: 192.398 ± 0.024 χ^2/NDF : 3344580.1/47

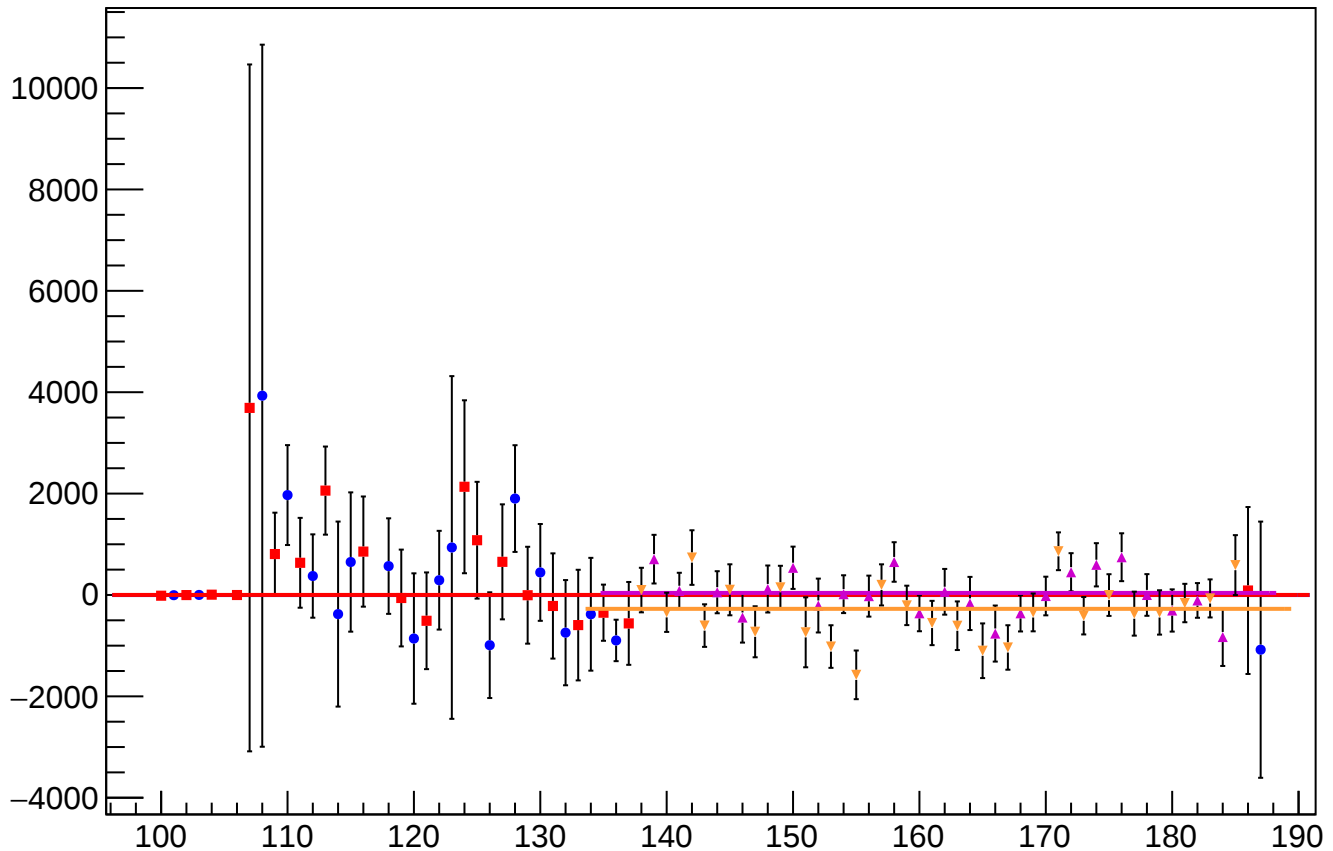
Right: 188.604 ± 0.038 χ^2/NDF : 2811277.4/37

In: 187.697 ± 0.028 χ^2/NDF : 2573600.0/40

Out: 195.037 ± 0.028 χ^2/NDF : 3555957.3/44

All: 191.338 ± 0.020 χ^2/NDF : 6163067.2/85

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: 0.731 ± 2.111 χ^2/NDF : 18.2/19

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

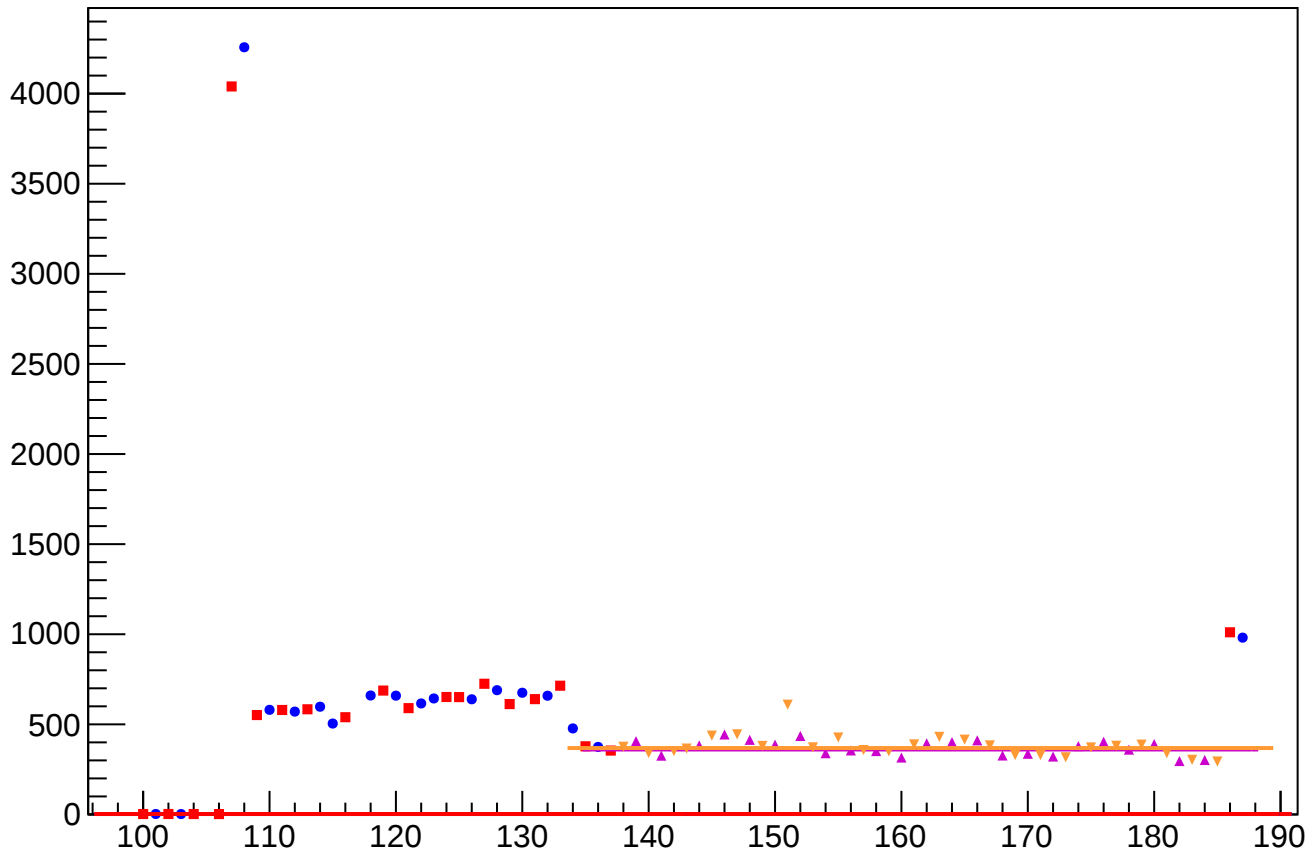
Right: -0.327 ± 1.540 χ^2/NDF : 35.8/37

In: -1.502 ± 2.251 χ^2/NDF : 37.5/40

Out: 0.569 ± 2.111 χ^2/NDF : 66.5/44

All: -0.400 ± 1.540 χ^2/NDF : 104.4/85

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: 2.438 ± 0.001 χ^2/NDF : 11843953.6/19

Left In: 360.571 ± 0.062 χ^2/NDF : 421995.5/22

Left: 364.563 ± 0.044 χ^2/NDF : 1053279.8/47

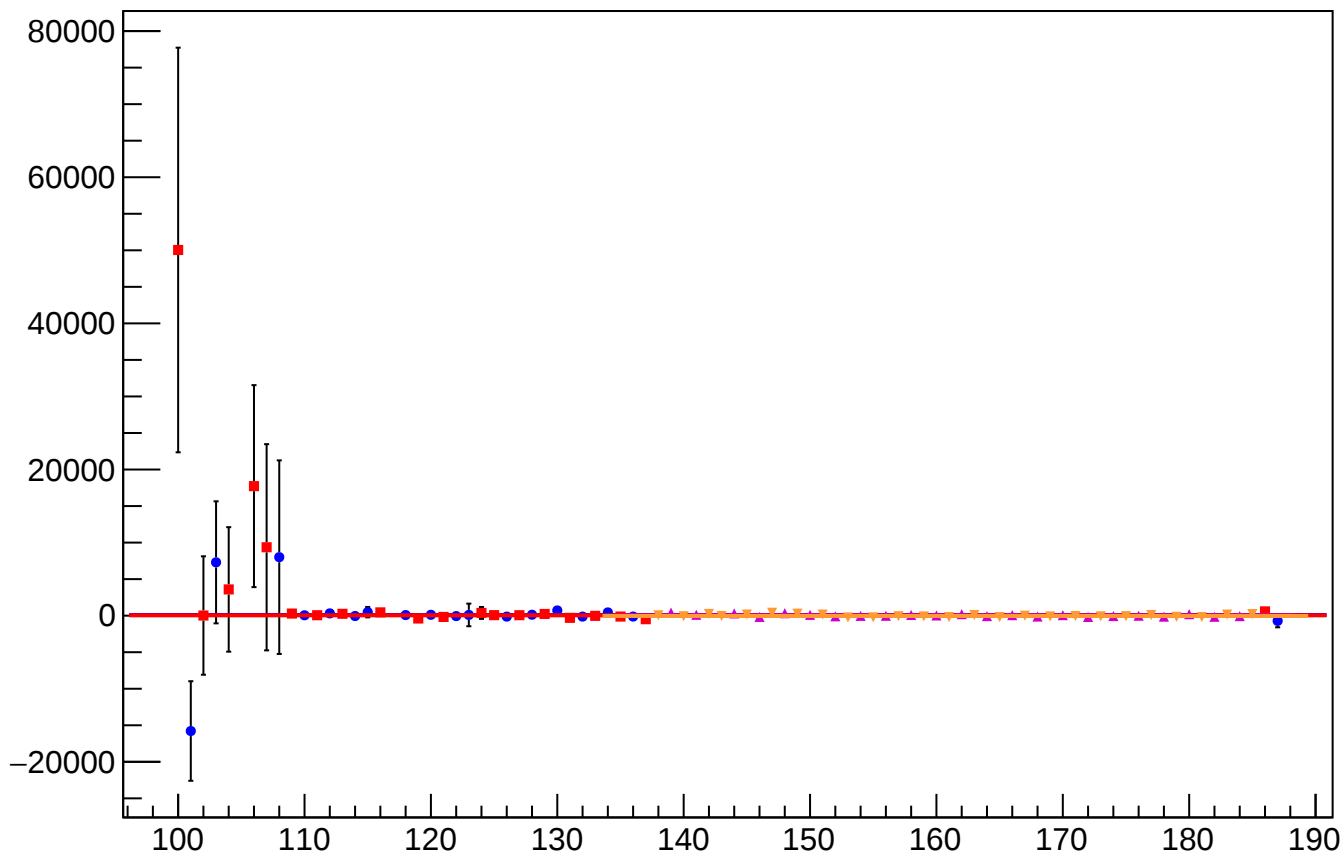
Right: 2.447 ± 0.001 χ^2/NDF : 22811092.6/37

In: 2.694 ± 0.002 χ^2/NDF : 44890922.1/40

Out: 2.654 ± 0.001 χ^2/NDF : 47960571.0/44

All: 2.673 ± 0.001 χ^2/NDF : 92851821.5/85

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: 48.669+/-83.759 χ^2/NDF : 14.9/19

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

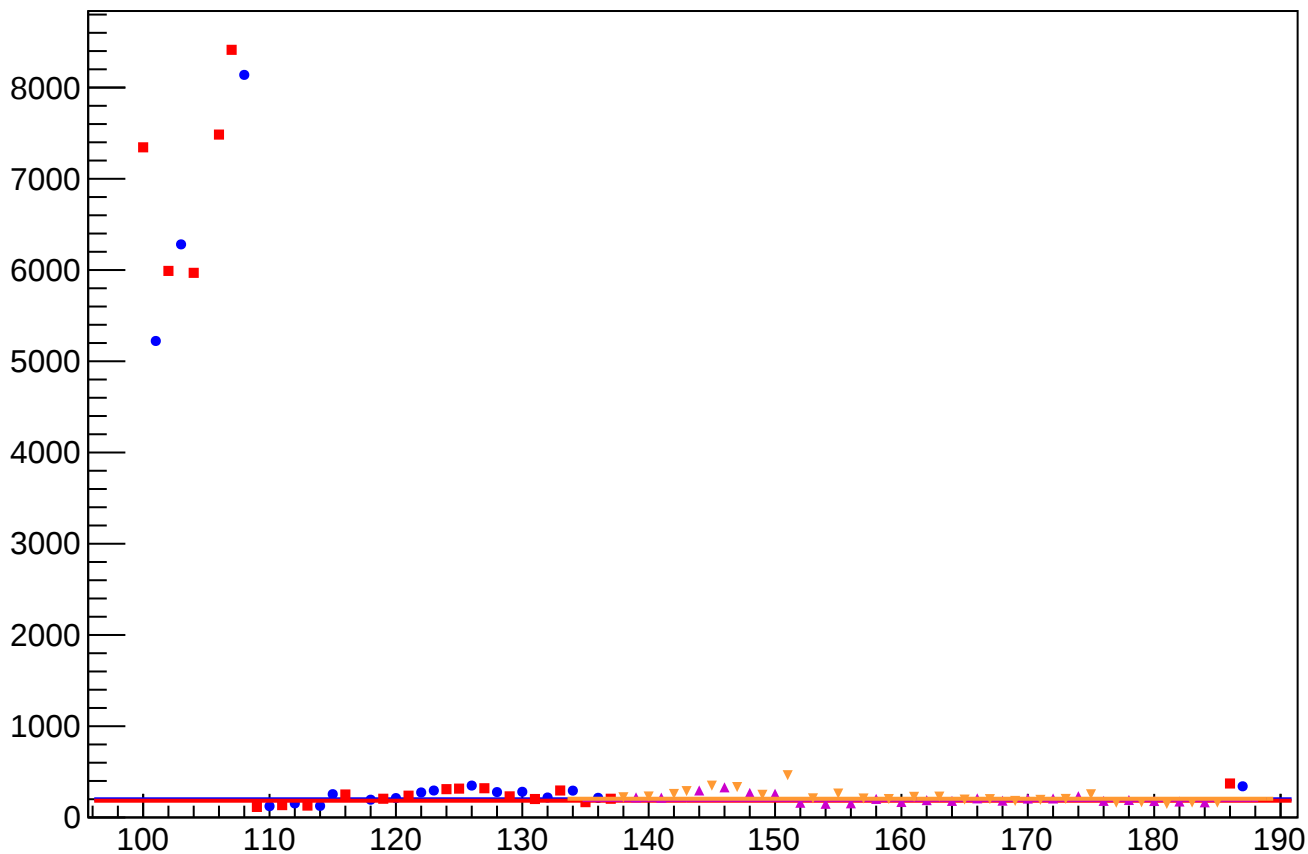
Right: 67.748+/-61.790 χ^2/NDF : 27.9/37

In: 41.550+/-42.531 χ^2/NDF : 22.8/40

Out: -16.281+/-42.663 χ^2/NDF : 24.9/44

All: 12.724+/-30.120 χ^2/NDF : 48.6/85

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 199.207 $\pm$ 0.065 χ^2 /NDF: 3752500.2/17

Left Out: 205.114 $\pm$ 0.035 χ^2 /NDF:1957484.4/24

Right Out: 183.481 $\pm$ 0.059 χ^2 /NDF: 4514861.8/19

Left In: 193.616 $\pm$ 0.034 χ^2 /NDF:1179471.1/22

Left: 199.183 $\pm$ 0.024 χ^2 /NDF: 3192443.5/47

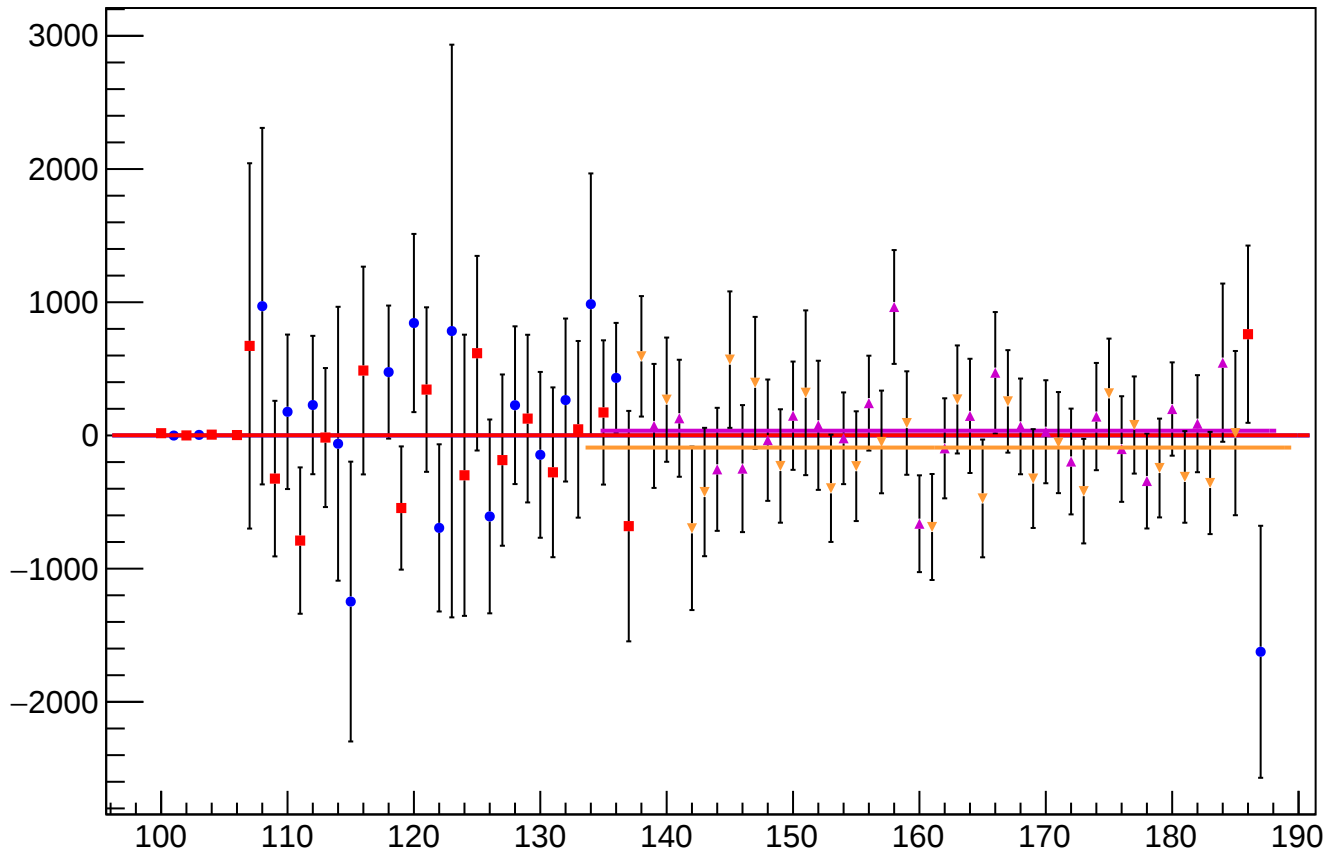
Right: 190.649 $\pm$ 0.044 χ^2 /NDF: 8299495.3/37

In: 194.823 $\pm$ 0.030 χ^2 /NDF:4937823.1/40

Out: 199.501 $\pm$ 0.030 χ^2 /NDF:6571142.6/44

All: 197.155 $\pm$ 0.021 χ^2 /NDF: 11521026.0/85

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: 1.327 $\pm$ 1.623 χ^2/NDF : 10.6/19

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

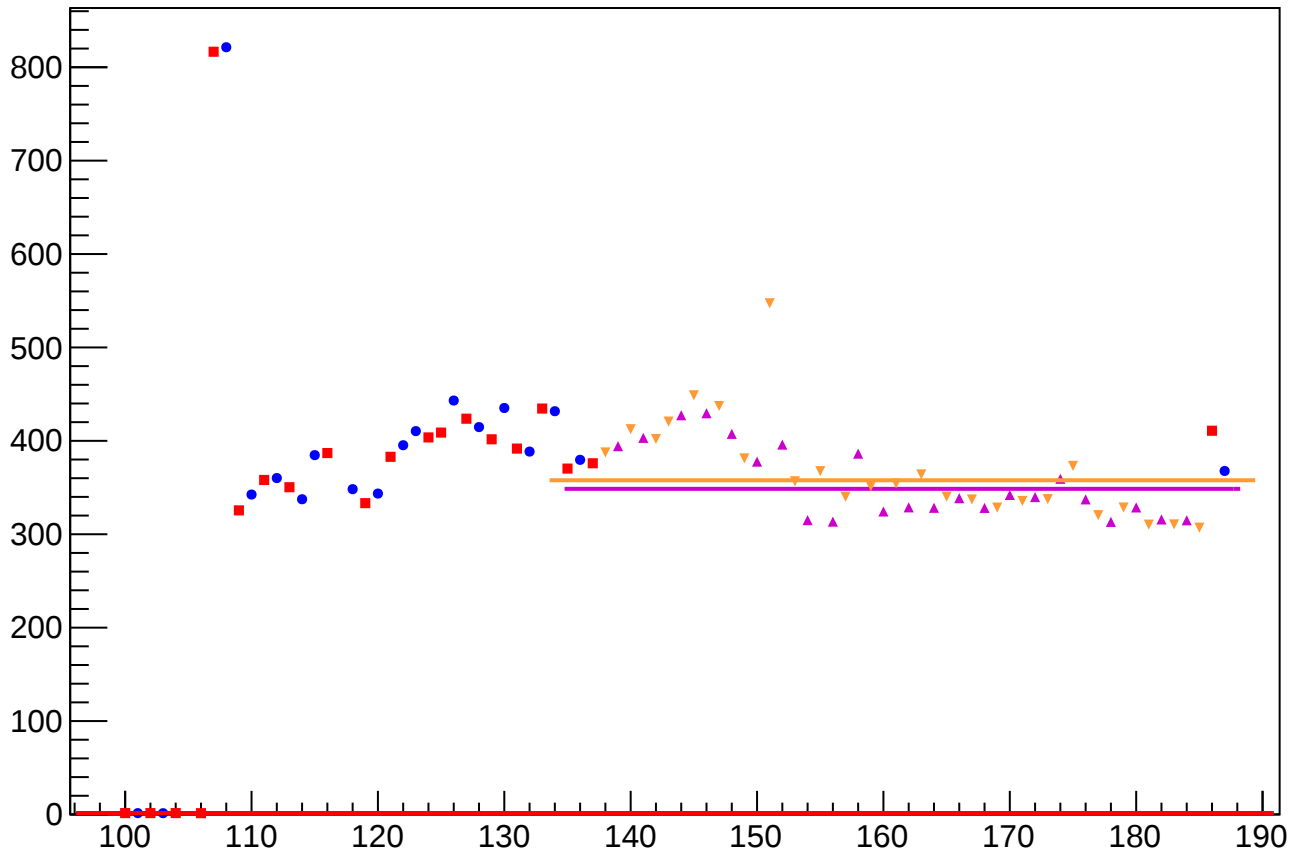
Right: 0.641 $\pm$ 1.186 χ^2/NDF : 24.0/37

In: -0.131 $\pm$ 1.736 χ^2/NDF : 26.7/40

Out: 1.293 $\pm$ 1.622 χ^2/NDF : 28.2/44

All: 0.629 $\pm$ 1.185 χ^2/NDF : 55.2/85

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: 1.453+/-0.001 χ^2/NDF : 11588634.5/19

Left In: 348.611+/-0.060 χ^2/NDF : 362511.2/22

Left: 353.224+/-0.042 χ^2/NDF : 921460.0/47

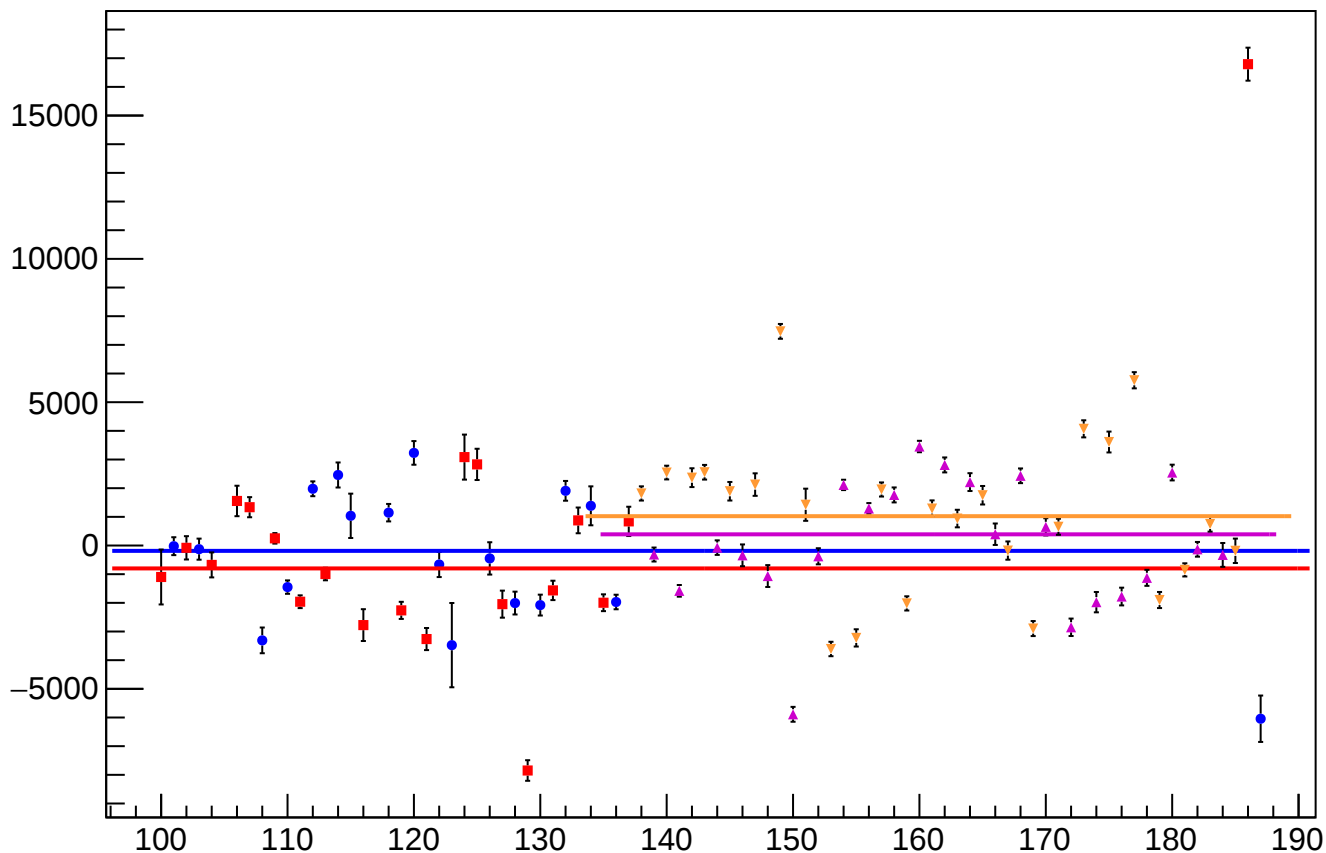
Right: 1.453+/-0.001 χ^2/NDF : 22660218.2/37

In: 1.600+/-0.001 χ^2/NDF : 45271471.9/40

Out: 1.586+/-0.001 χ^2/NDF : 48048804.1/44

All: 1.593+/-0.001 χ^2/NDF : 93320347.4/85

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: -799.280 ± 77.744 $\chi^2/\text{NDF}: 1639.1/19$

Left In: 390.237 ± 54.931 $\chi^2/\text{NDF}: 1584.9/22$

Left: 693.270 ± 39.666 $\chi^2/\text{NDF}: 3957.9/47$

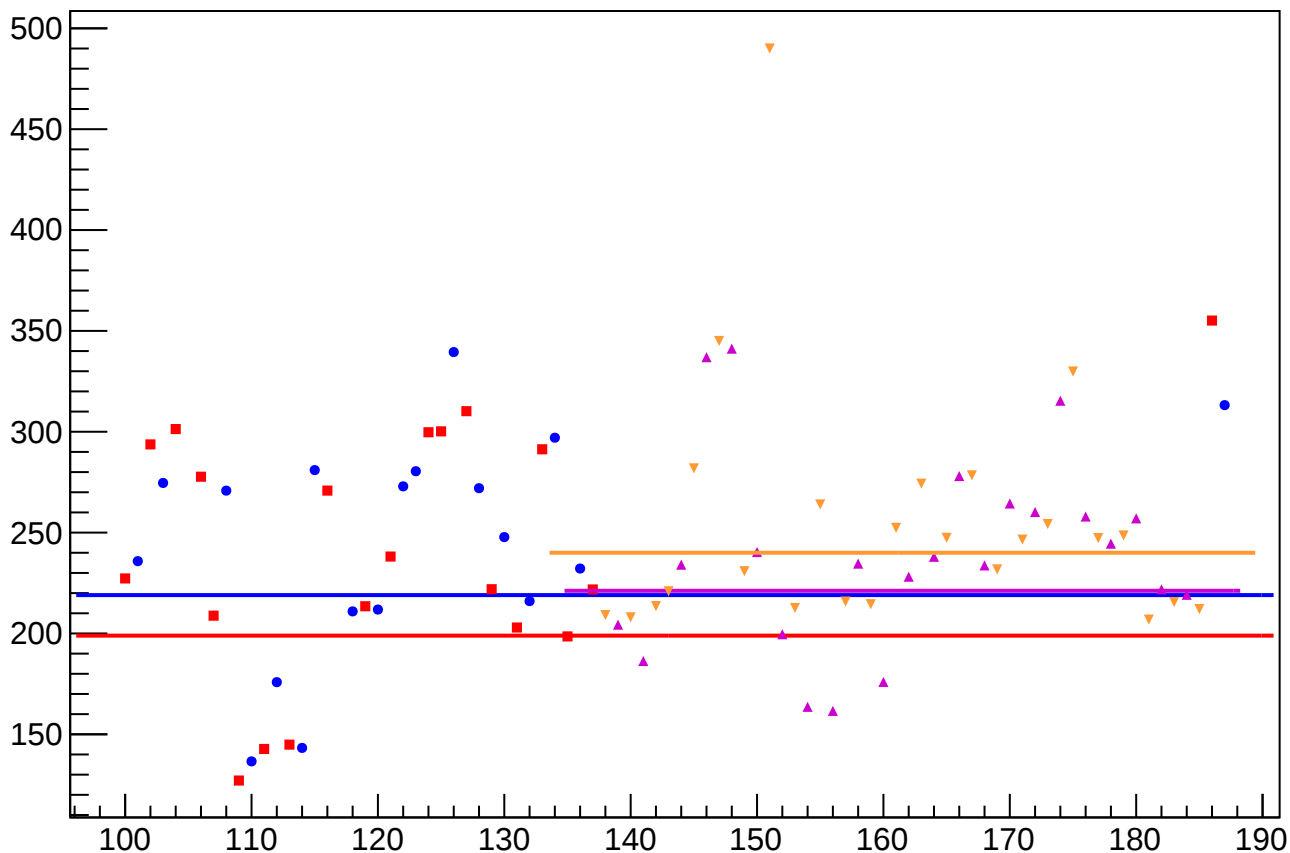
Right: -530.006 ± 58.204 $\chi^2/\text{NDF}: 2139.8/37$

In: 227.963 ± 46.568 $\chi^2/\text{NDF}: 2089.4/40$

Out: 381.280 ± 46.145 $\chi^2/\text{NDF}: 4304.5/44$

All: 305.320 ± 32.778 $\chi^2/\text{NDF}: 6399.3/85$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 219.018 ± 0.062 $\chi^2/\text{NDF}: 689412.5/17$

Left Out: 240.019 ± 0.041 $\chi^2/\text{NDF}: 1002427.9/24$

Right Out: 198.923 ± 0.055 $\chi^2/\text{NDF}: 1339275.9/19$

Left In: 221.173 ± 0.039 $\chi^2/\text{NDF}: 1342517.8/22$

Left: 230.192 ± 0.028 $\chi^2/\text{NDF}: 2457612.6/47$

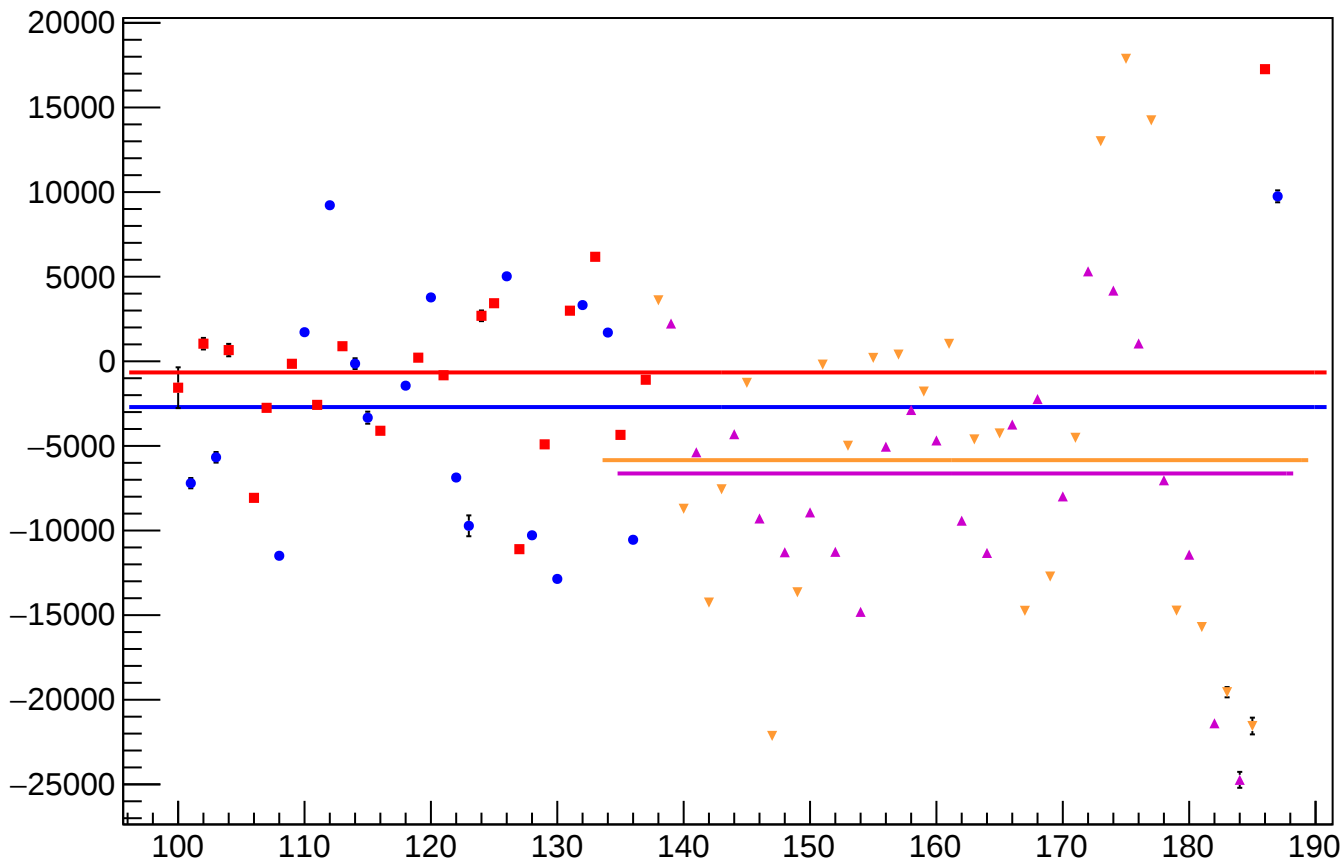
Right: 207.754 ± 0.041 $\chi^2/\text{NDF}: 2087413.9/37$

In: 220.566 ± 0.033 $\chi^2/\text{NDF}: 2032796.2/40$

Out: 225.541 ± 0.033 $\chi^2/\text{NDF}: 2703675.3/44$

All: 223.076 ± 0.023 $\chi^2/\text{NDF}: 4747984.4/85$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2704.313+/-48.240 χ^2/NDF : 22175.0/17

Left Out: -5841.615+/-35.848 χ^2/NDF : 63397.3/24

Right Out: -657.882+/-45.398 χ^2/NDF : 14833.5/19

Left In: -6628.388+/-37.160 χ^2/NDF : 21738.0/22

Left: -6220.862+/-25.800 χ^2/NDF : 85367.5/47

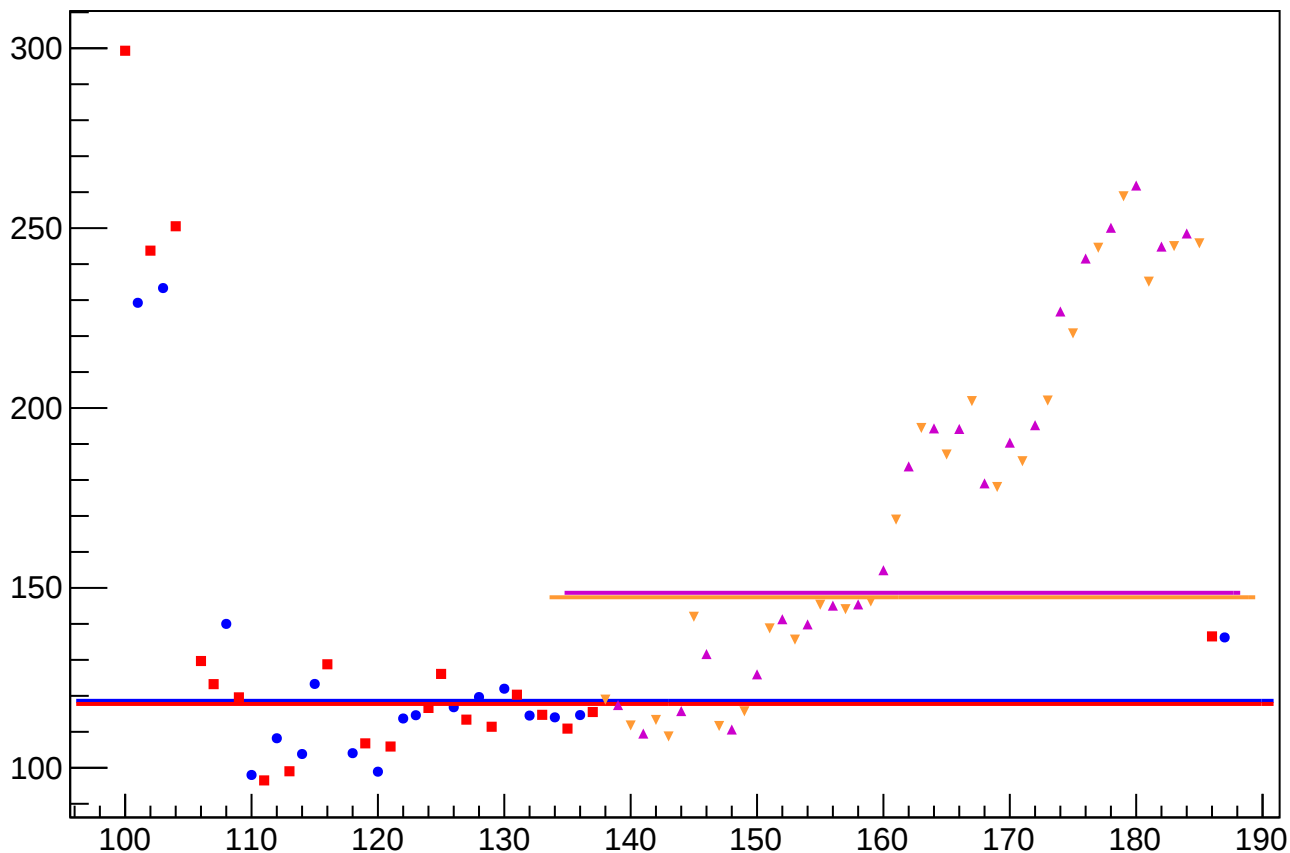
Right: -1619.038+/-33.061 χ^2/NDF : 37962.9/37

In: -5167.053+/-29.439 χ^2/NDF : 48065.8/40

Out: -3850.796+/-28.134 χ^2/NDF : 86261.4/44

All: -4479.114+/-20.339 χ^2/NDF : 135372.1/8

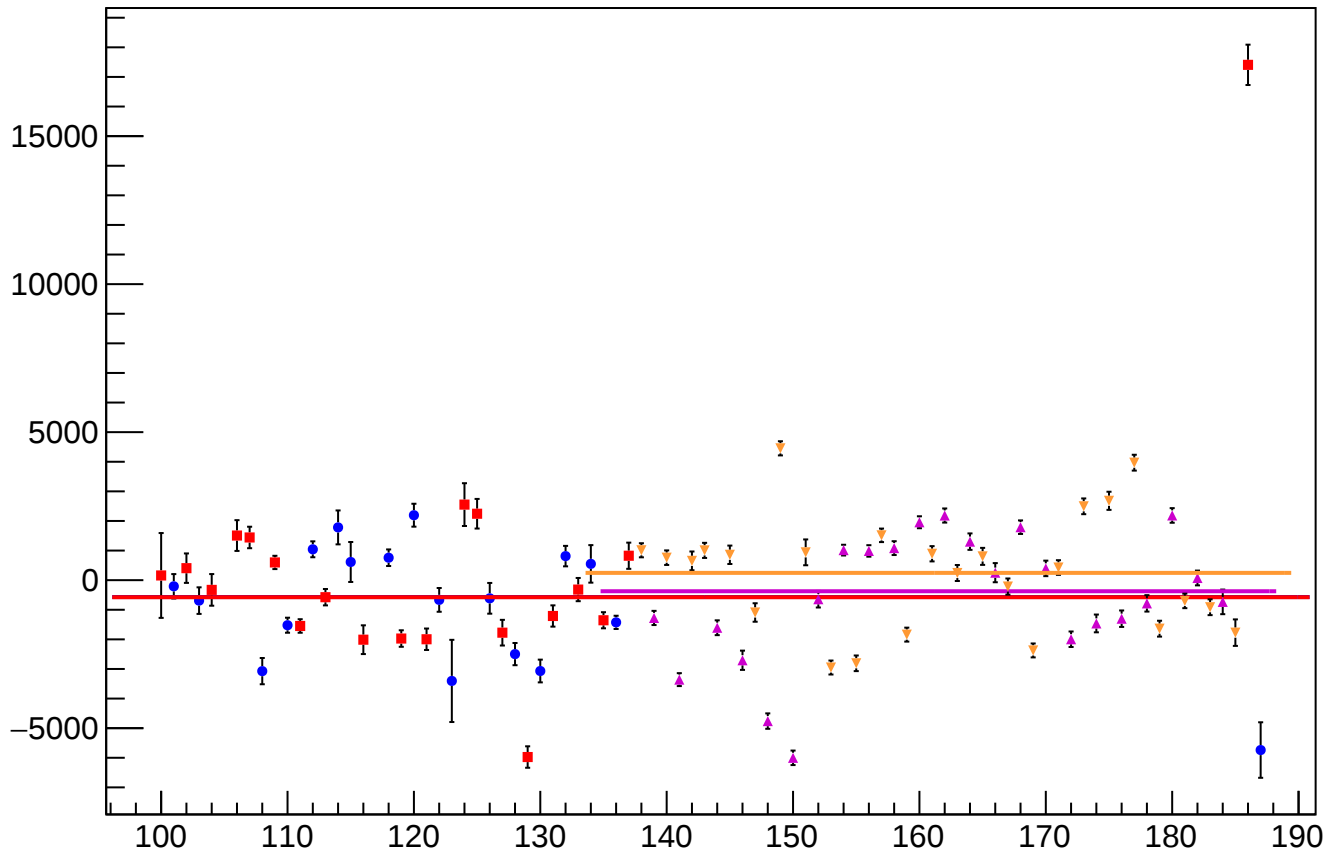
asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.613 $\pm$ 0.034 χ^2 /NDF: 642097.3/17
 Left Out: 147.396 $\pm$ 0.025 χ^2 /NDF: 2517097.1/24
 Right Out: 117.751 $\pm$ 0.032 χ^2 /NDF: 704564.2/19
 Left In: 148.642 $\pm$ 0.026 χ^2 /NDF: 2415531.9/22

Left: 147.997 $\pm$ 0.018 χ^2 /NDF: 4933793.6/47
 Right: 118.156 $\pm$ 0.023 χ^2 /NDF: 1347000.0/37
 In: 137.459 $\pm$ 0.021 χ^2 /NDF: 3544008.2/40
 Out: 136.011 $\pm$ 0.020 χ^2 /NDF: 3746951.5/44
 All: 136.702 $\pm$ 0.014 χ^2 /NDF: 7293489.2/85

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: -575.826 ± 81.670 $\chi^2/\text{NDF}: 1144.5/19$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

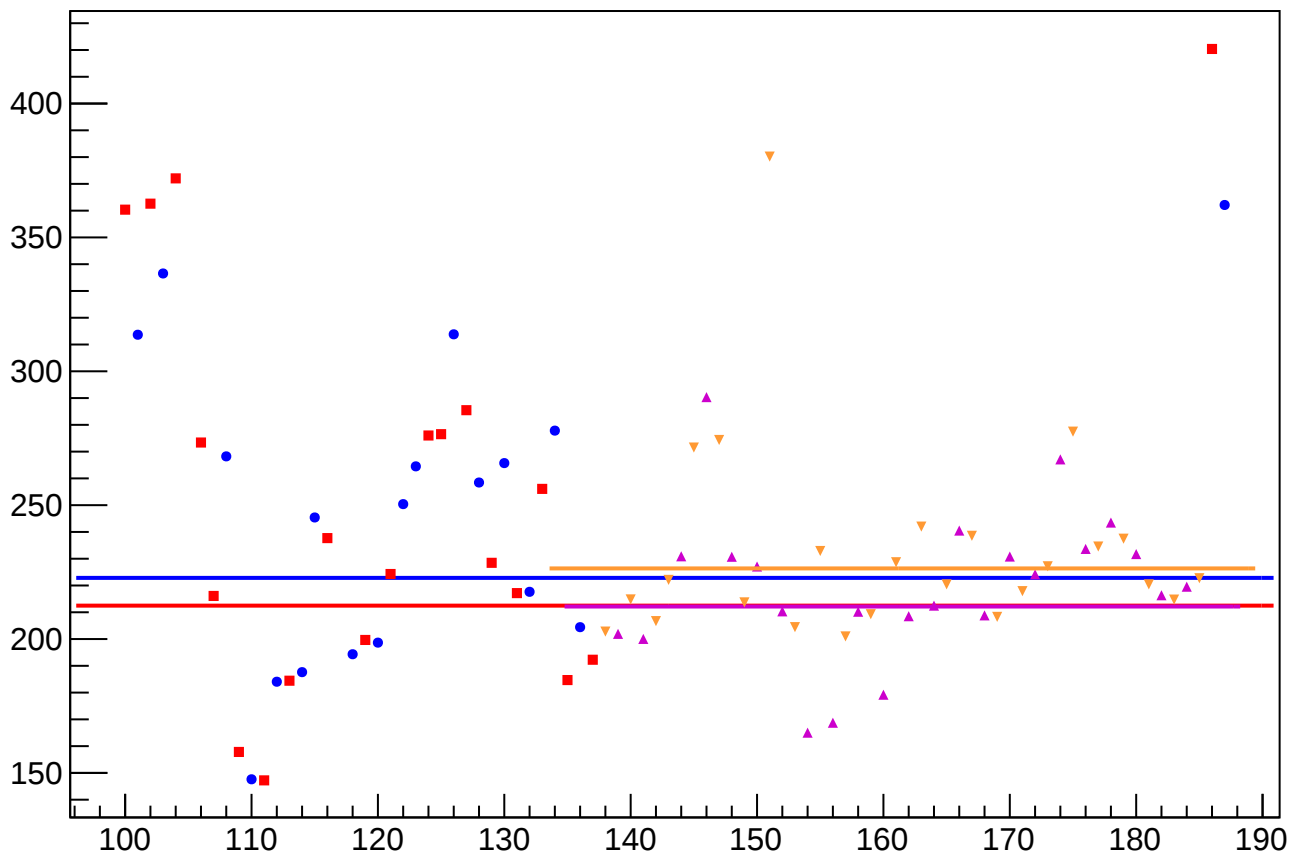
Right: -573.222 ± 60.174 $\chi^2/\text{NDF}: 1457.8/37$

In: -424.106 ± 44.829 $\chi^2/\text{NDF}: 2115.1/40$

Out: -0.635 ± 44.748 $\chi^2/\text{NDF}: 2570.2/44$

All: -211.987 ± 31.670 $\chi^2/\text{NDF}: 4730.0/85$

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: 212.478 ± 0.058 χ^2/NDF : 1068244.8/19

Left In: 212.145 ± 0.037 χ^2/NDF : 591698.6/22

Left: 219.044 ± 0.026 χ^2/NDF : 1186390.8/47

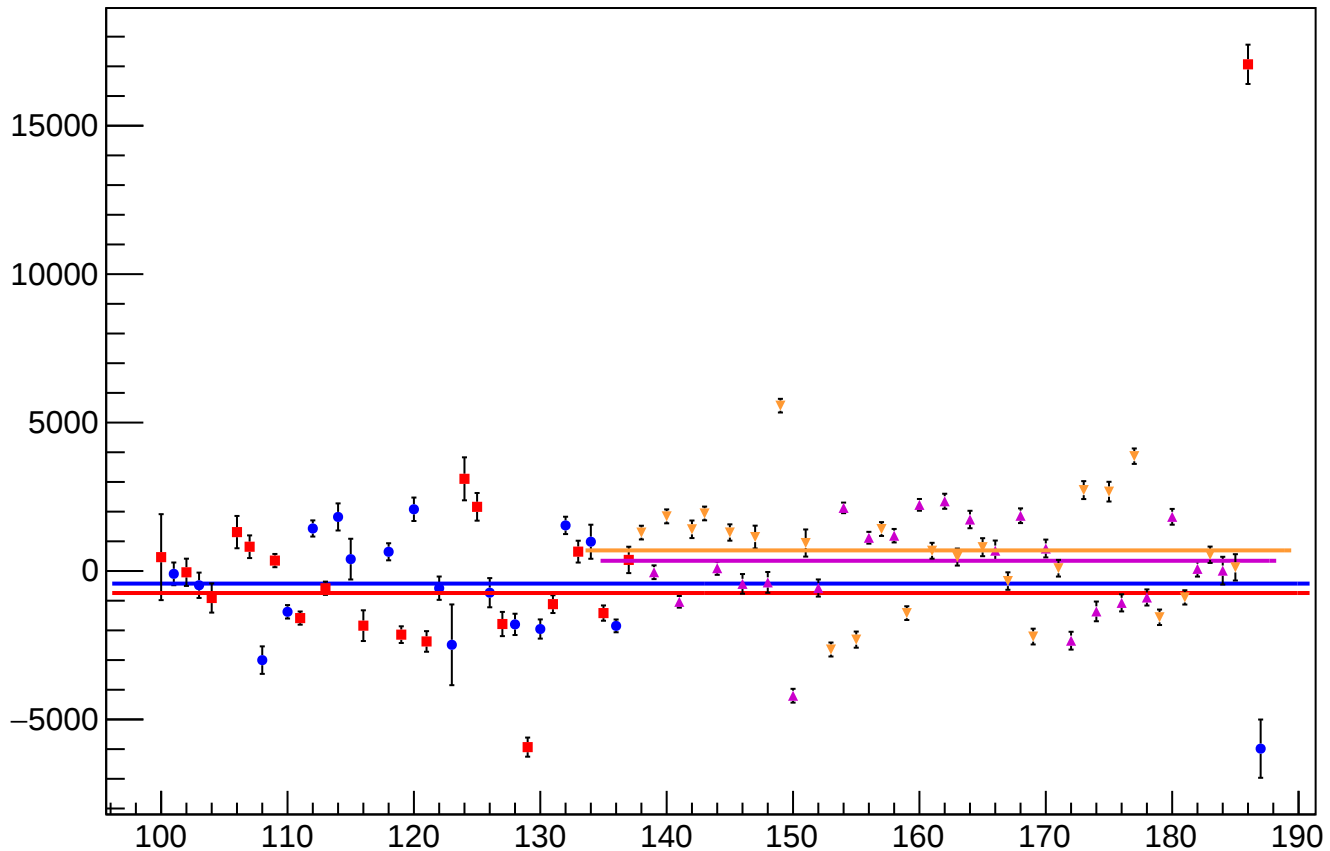
Right: 217.216 ± 0.043 χ^2/NDF : 1773263.8/37

In: 214.859 ± 0.032 χ^2/NDF : 1303557.3/40

Out: 222.203 ± 0.032 χ^2/NDF : 1630544.1/44

All: 218.538 ± 0.022 χ^2/NDF : 2960989.3/85

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: -741.197+/-77.165 χ^2/NDF : 1210.6/19

Left In: 344.578+/-52.954 χ^2/NDF :985.0/22

Left: 515.236+/-37.893 χ^2/NDF : 2428.4/47

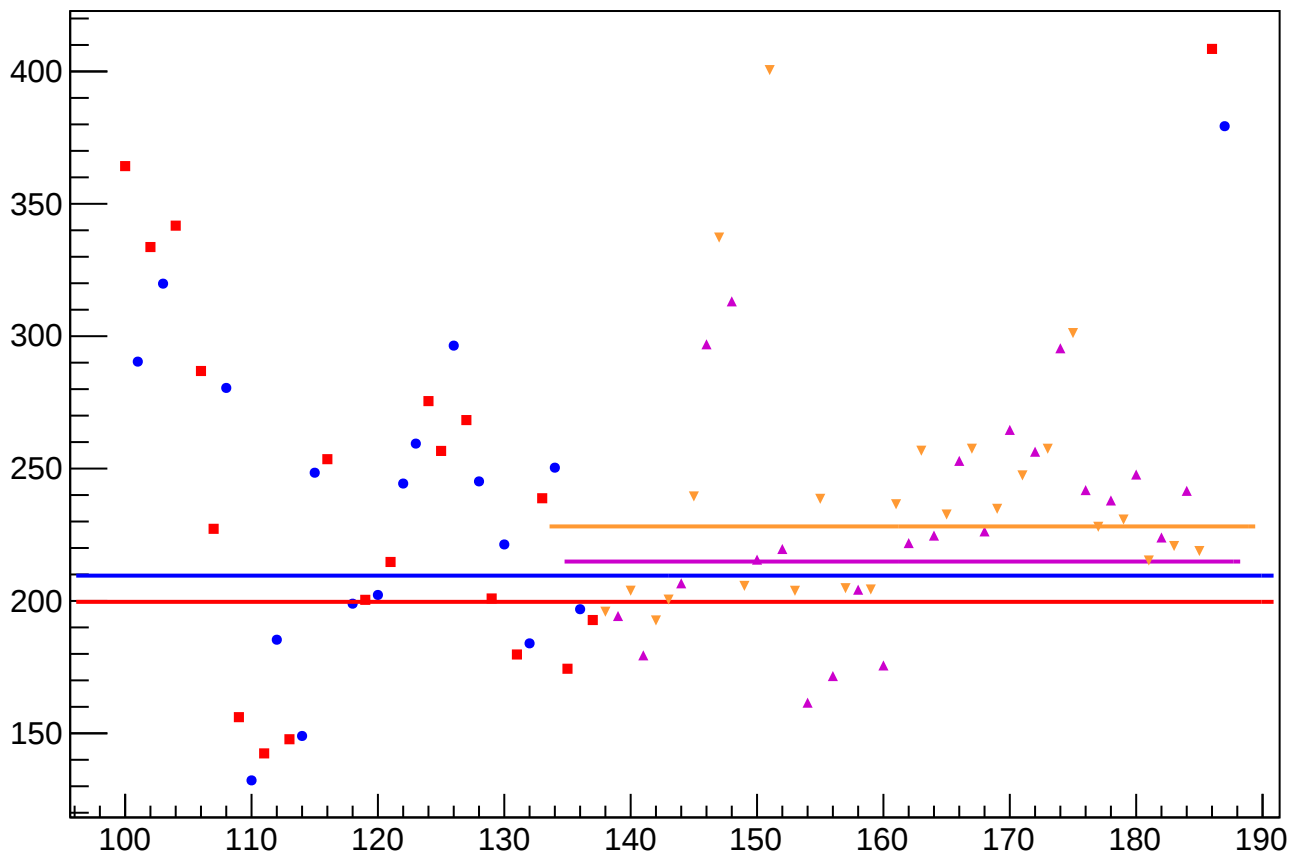
Right: -596.260+/-56.874 χ^2/NDF : 1560.5/37

In: 126.610+/-44.819 χ^2/NDF :1387.0/40

Out: 219.531+/-44.378 χ^2/NDF :2864.3/44

All: 173.530+/-31.535 χ^2/NDF : 4253.4/85

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 209.561 $\pm$ 0.060 χ^2/NDF : 759050.7/17

Left Out: 228.144 $\pm$ 0.038 χ^2/NDF :828399.3/24

Right Out: 199.658 $\pm$ 0.055 χ^2/NDF : 1126956.4/19

Left In: 214.878 $\pm$ 0.037 χ^2/NDF :1037509.6/22

Left: 221.351 $\pm$ 0.027 χ^2/NDF : 1927151.4/47

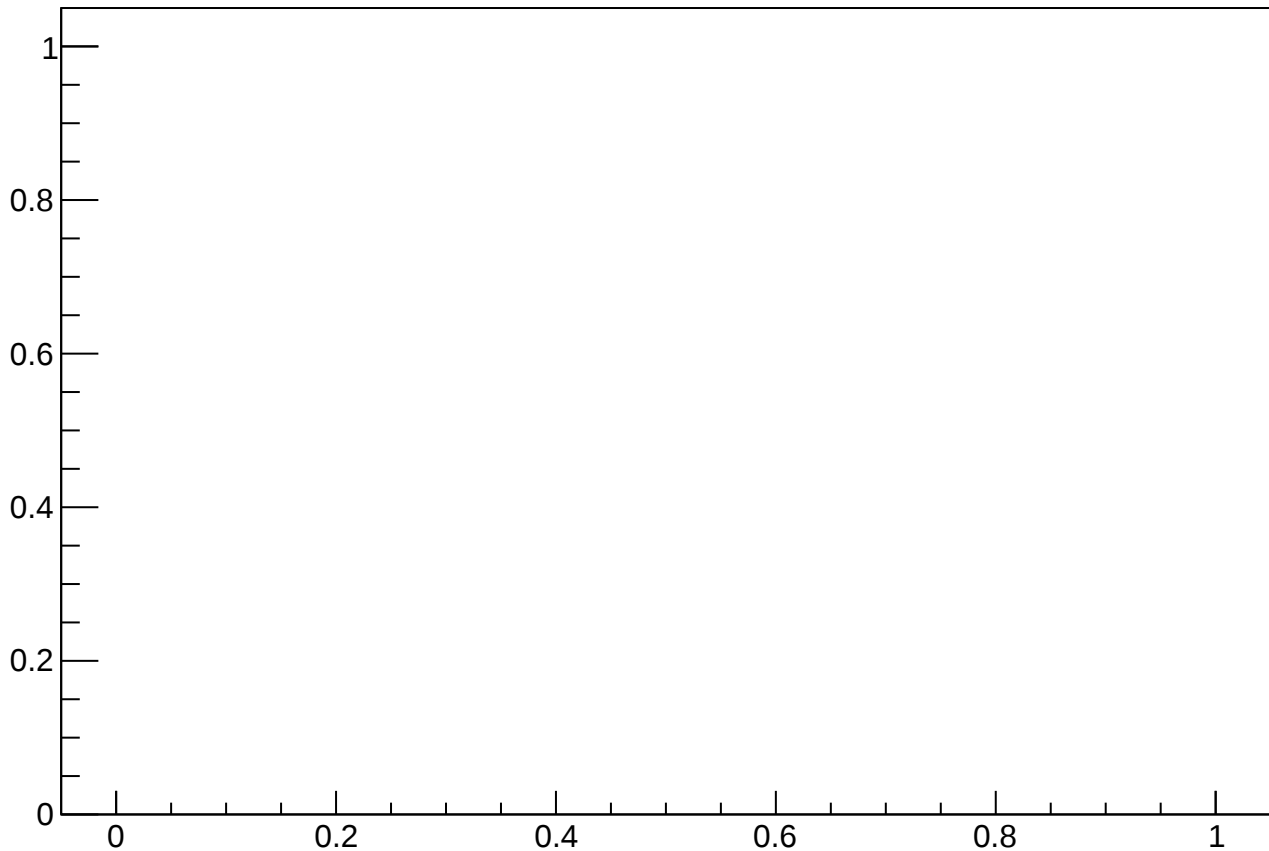
Right: 204.181 $\pm$ 0.040 χ^2/NDF : 1901051.8/37

In: 213.370 $\pm$ 0.032 χ^2/NDF :1802279.8/40

Out: 218.722 $\pm$ 0.031 χ^2/NDF :2137756.8/44

All: 216.073 $\pm$ 0.022 χ^2/NDF : 3954438.5/85

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

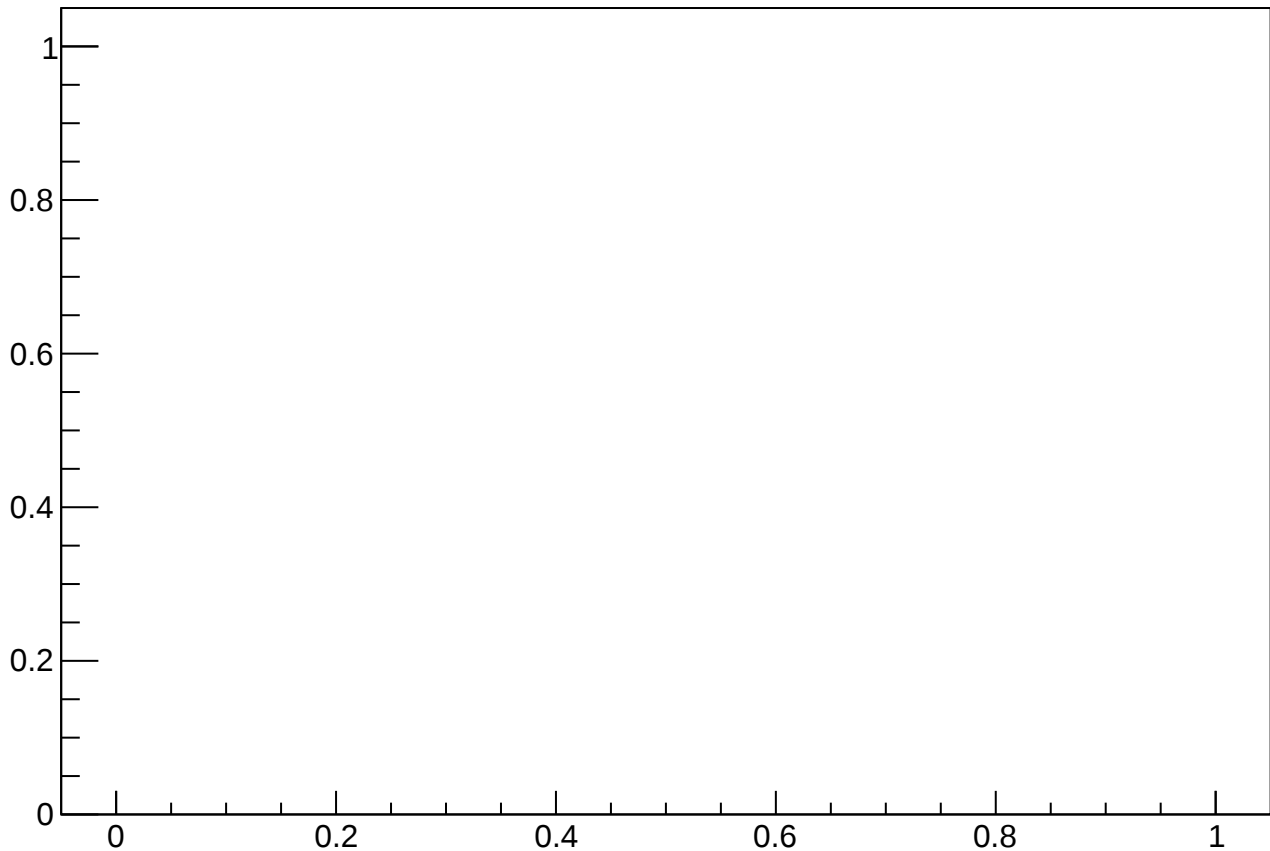
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

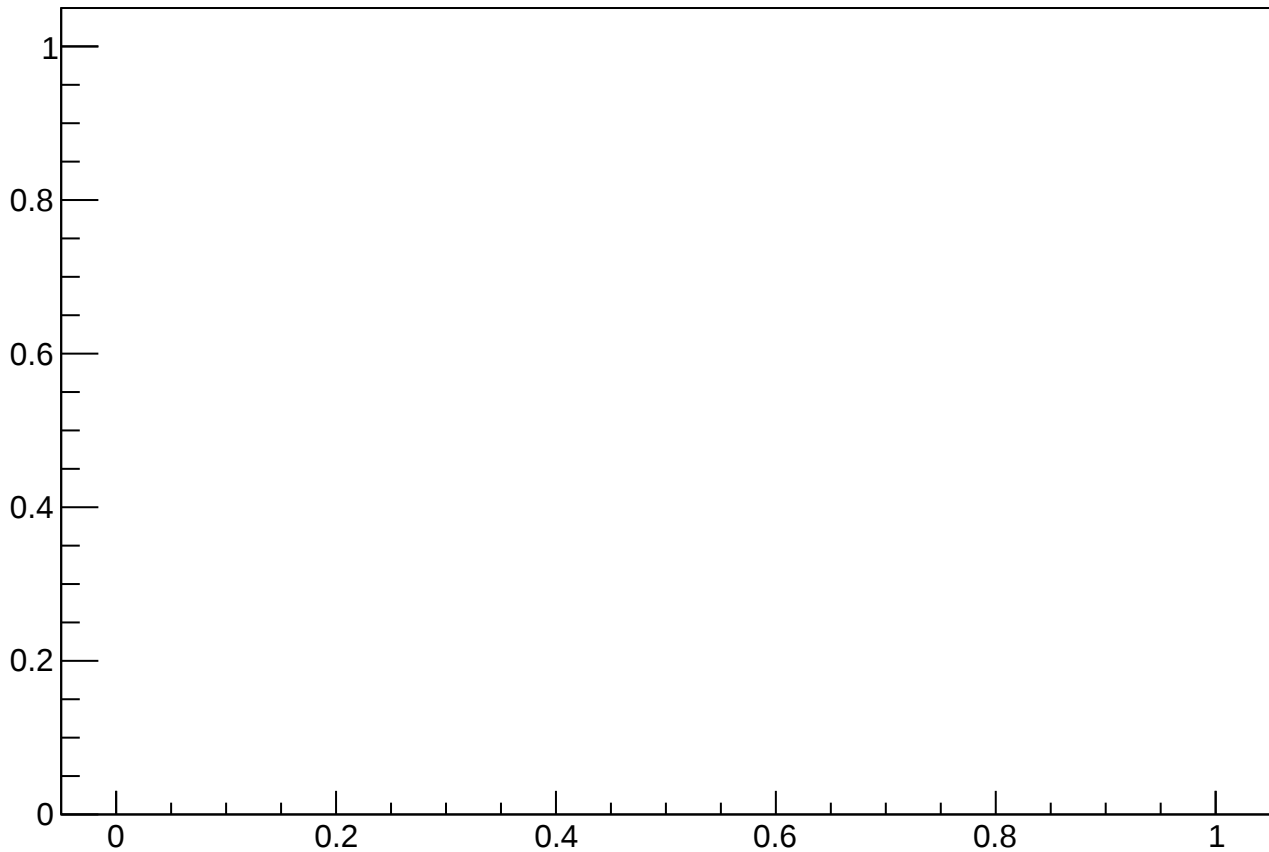
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

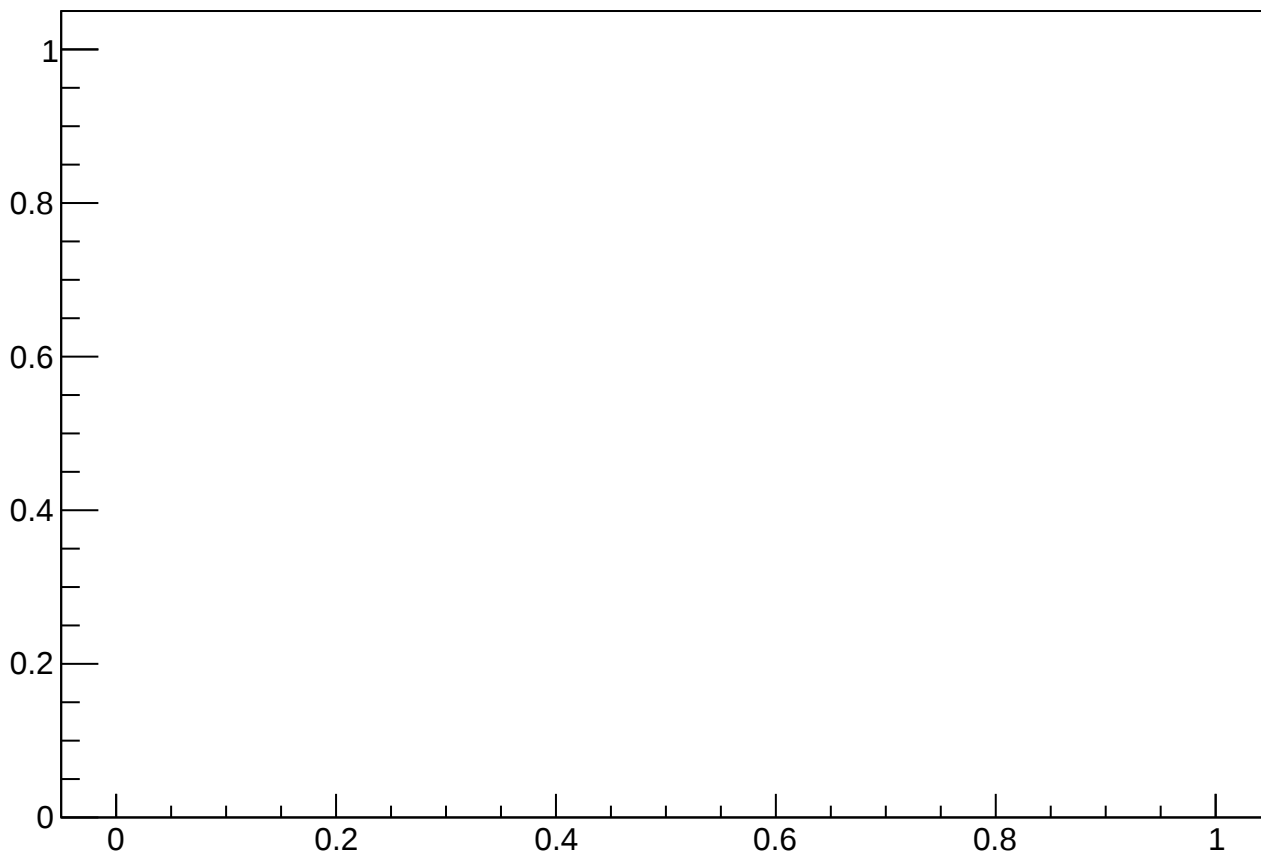
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

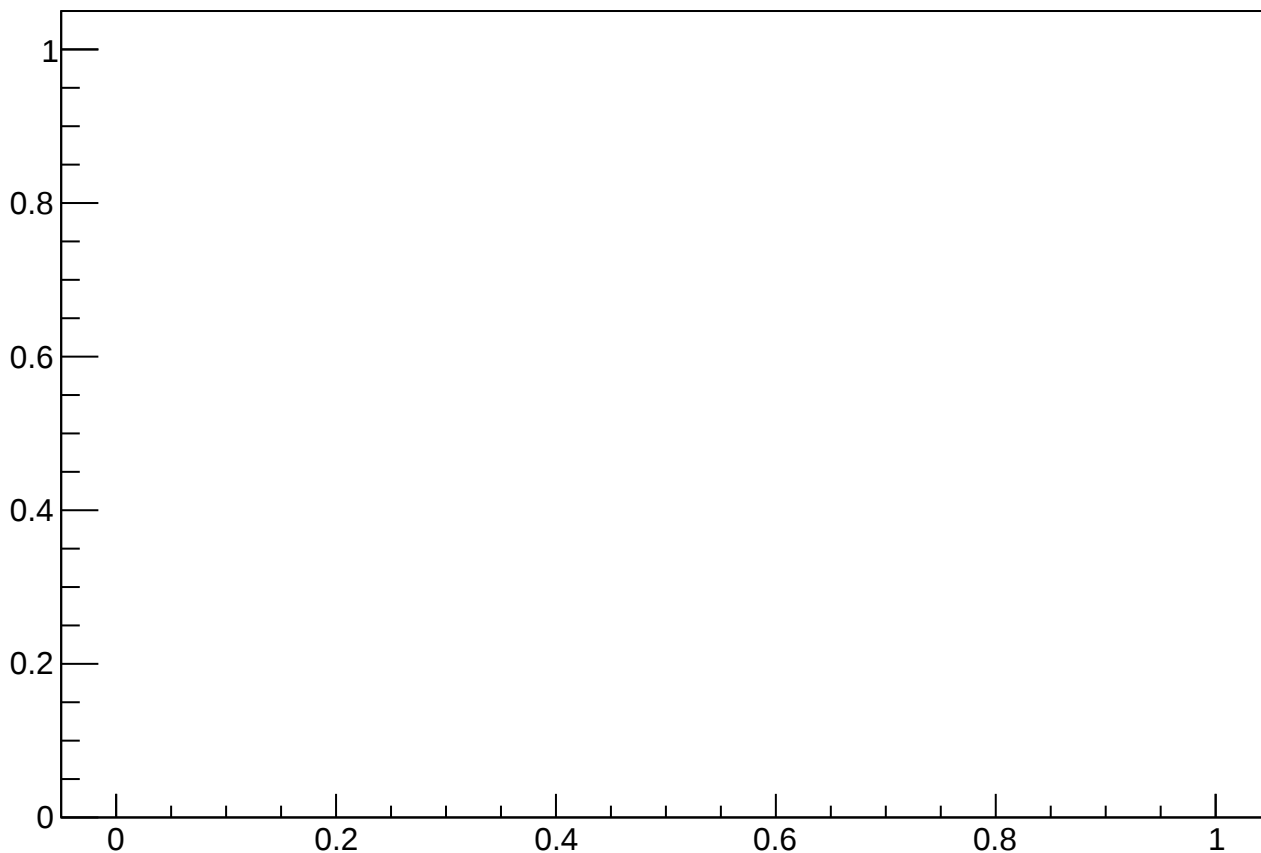
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

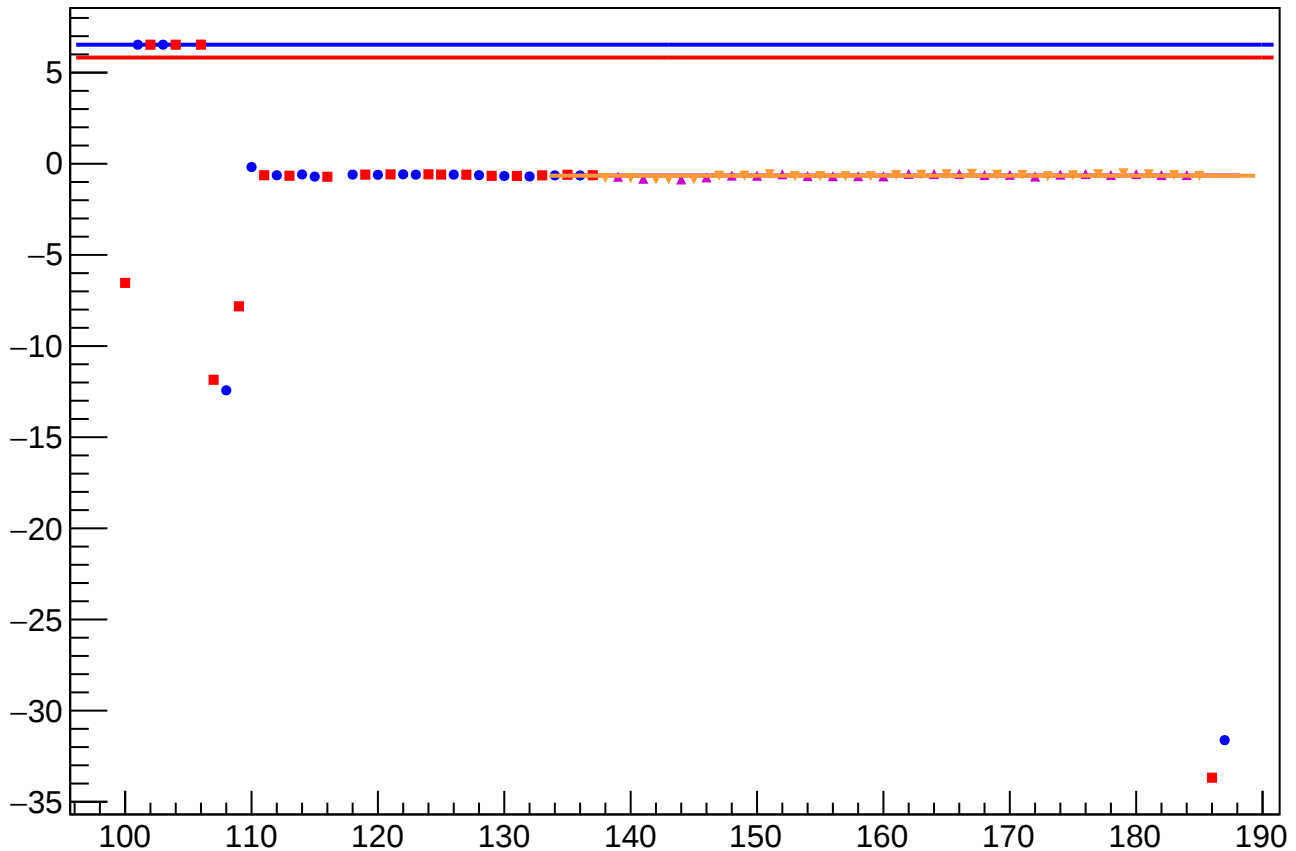
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 755961944202336.5/19

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

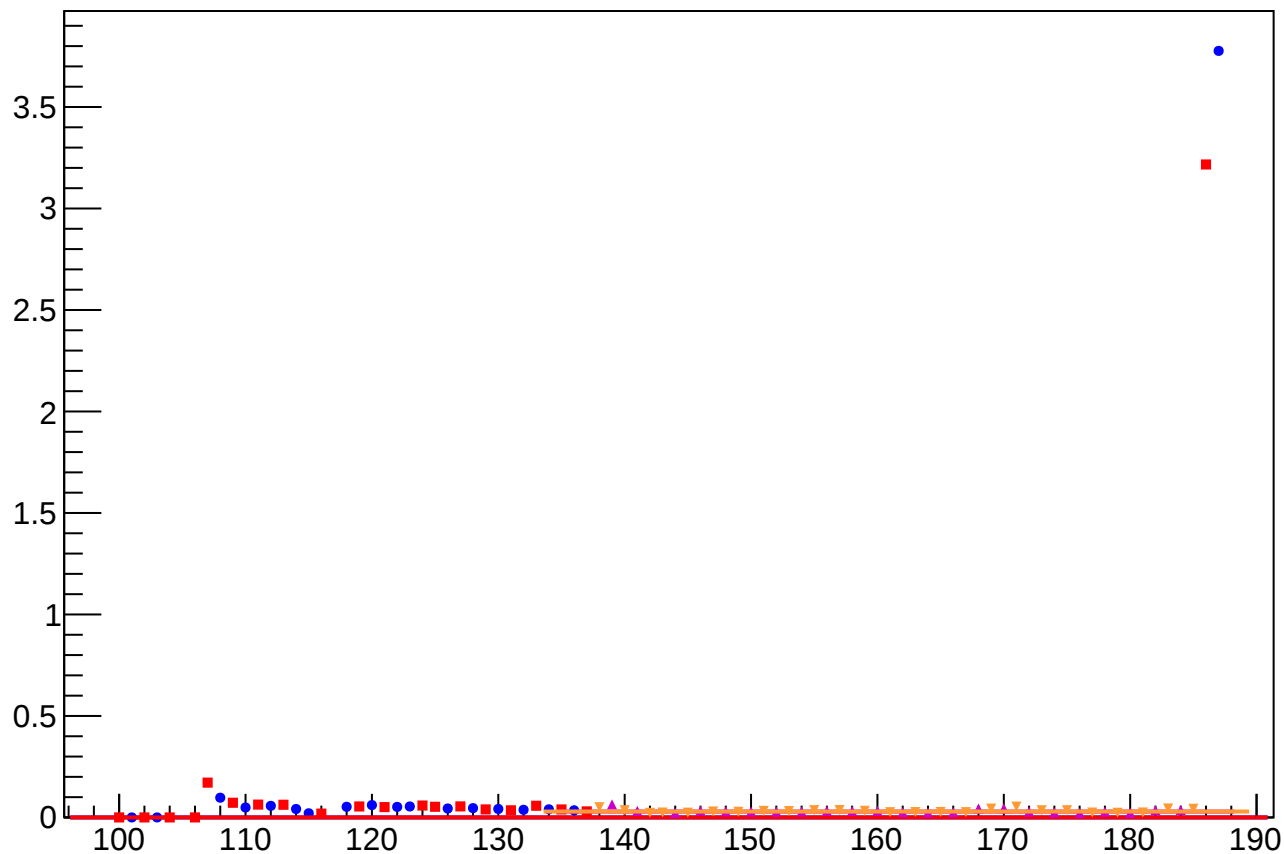
Right: 6.155+/-0.000 χ^2/NDF : 776093523627069.9/47

In: 6.530+/-0.000 χ^2/NDF : 961734611032.4/40

Out: 5.826+/-0.000 χ^2/NDF : 756672961117249.8/40

All: 6.153+/-0.000 χ^2/NDF : 77762695555613.0/94

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 : 10035964.6/19

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

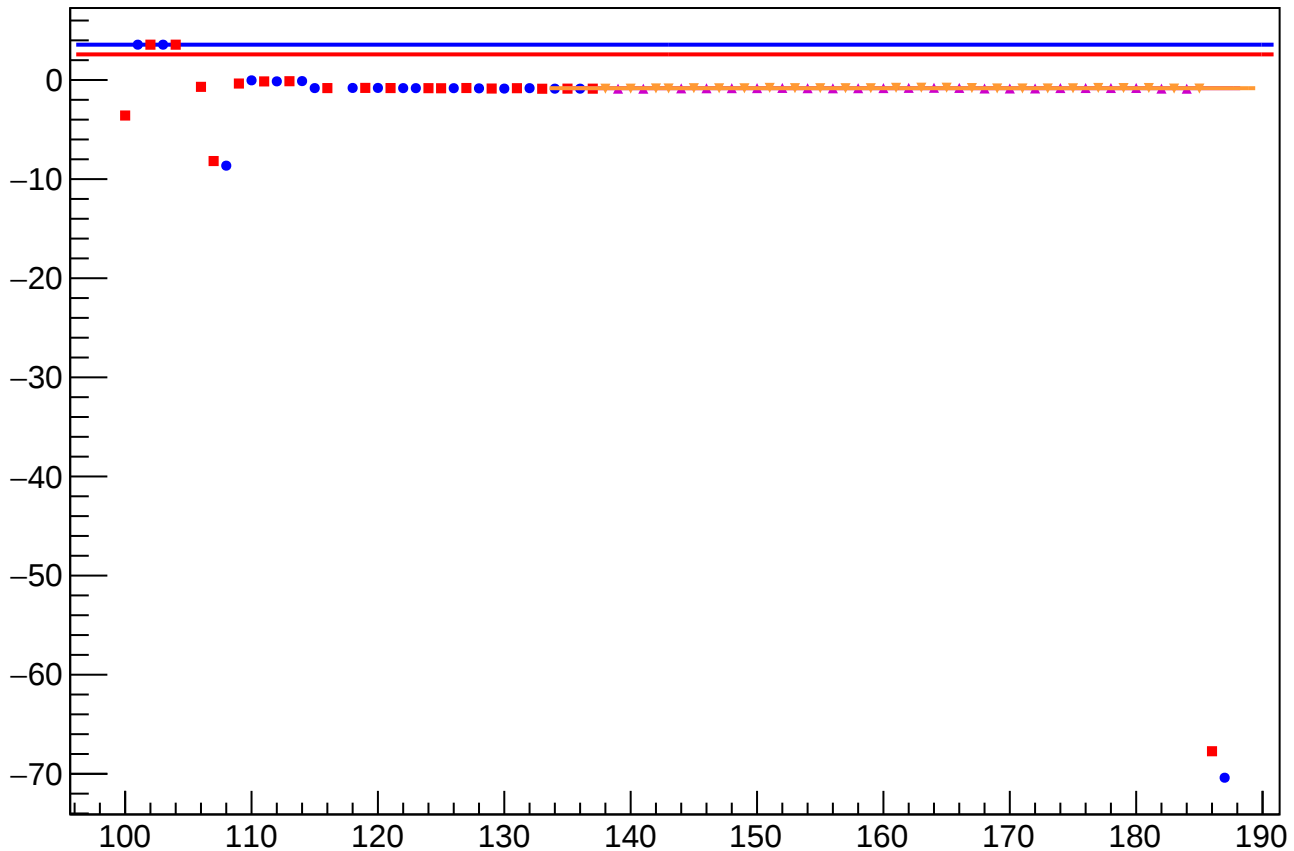
Right: 0.000+/-0.000 χ^2/NDF : 19163047.9/37

In: 0.000+/-0.000 χ^2/NDF :37304659.9/40

Out: 0.000+/-0.000 χ^2/NDF :40004027.7/44

All: 0.000+/-0.000 χ^2/NDF : 77309113.8/85

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 480221583059.6/17

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253501393802194.8/19

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

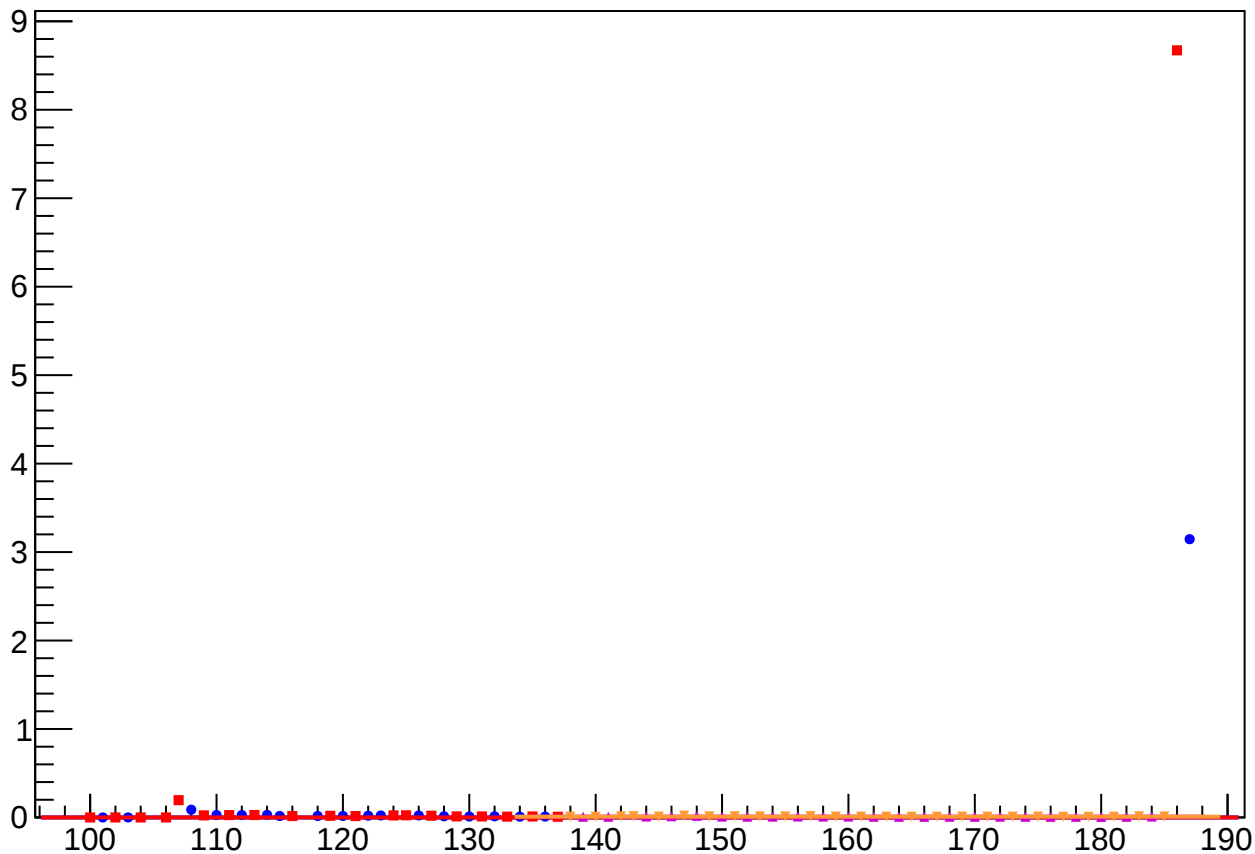
Right: 3.040+/-0.000 χ^2/NDF : 1382252717709381.8

In: 3.560+/-0.000 χ^2/NDF : 4160783909682.2/40

Out: 2.581+/-0.000 χ^2/NDF : 1255732296008127.2

All: 3.038+/-0.000 χ^2/NDF : 13879772814707

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 : 10539753.4/19

Left In: 0.009+/-0.000 χ^2/NDF : 1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

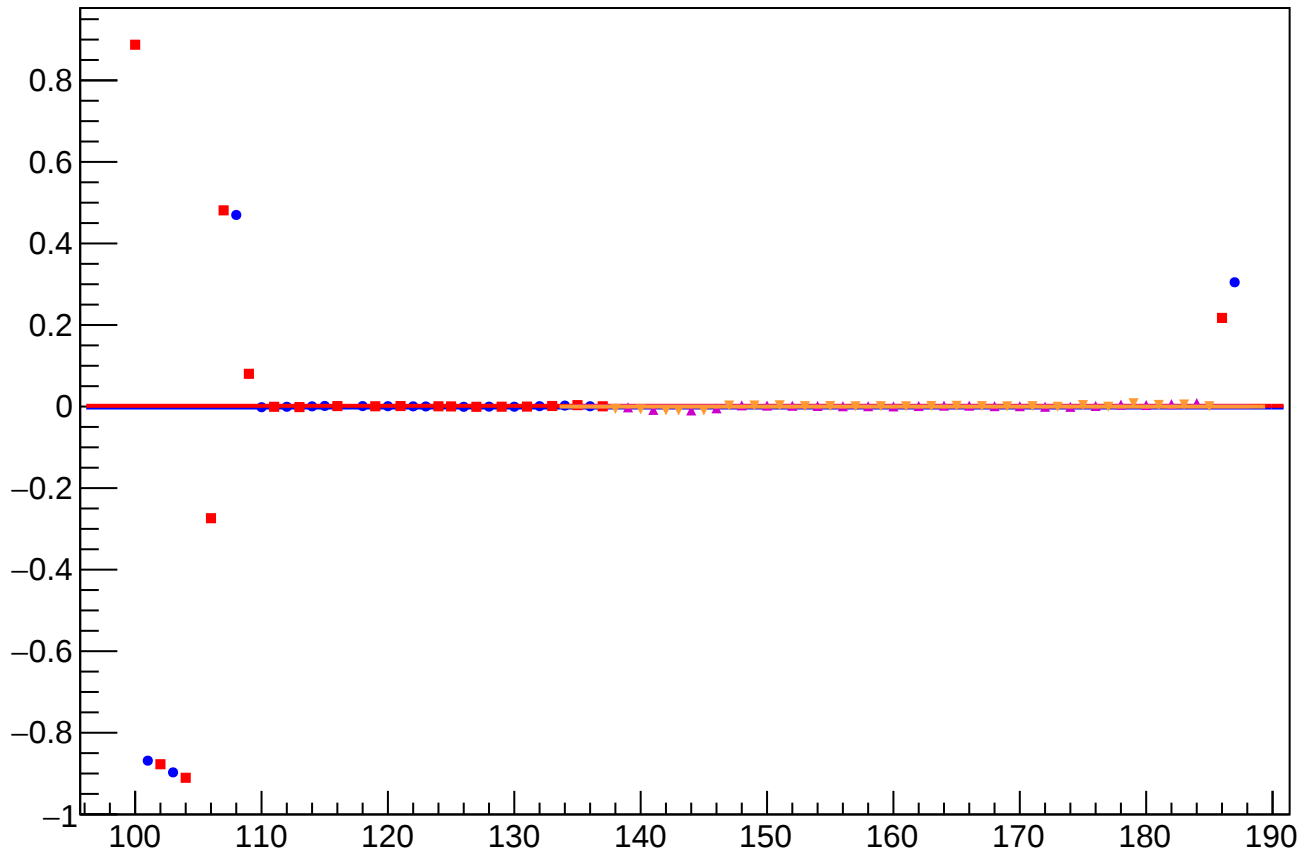
Right: 0.000+/-0.000 χ^2/NDF : 20517768.2/37

In: 0.000+/-0.000 χ^2/NDF : 39774980.9/40

Out: 0.000+/-0.000 χ^2/NDF : 42057995.7/44

All: 0.000+/-0.000 χ^2/NDF : 81833755.7/85

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 : 12850369881.5/37

Right Out: 0.002+/-0.000

χ^2/NDF : 3041332917.7/19

In: -0.000+/-0.000 χ^2/NDF : 9907807905.7/40

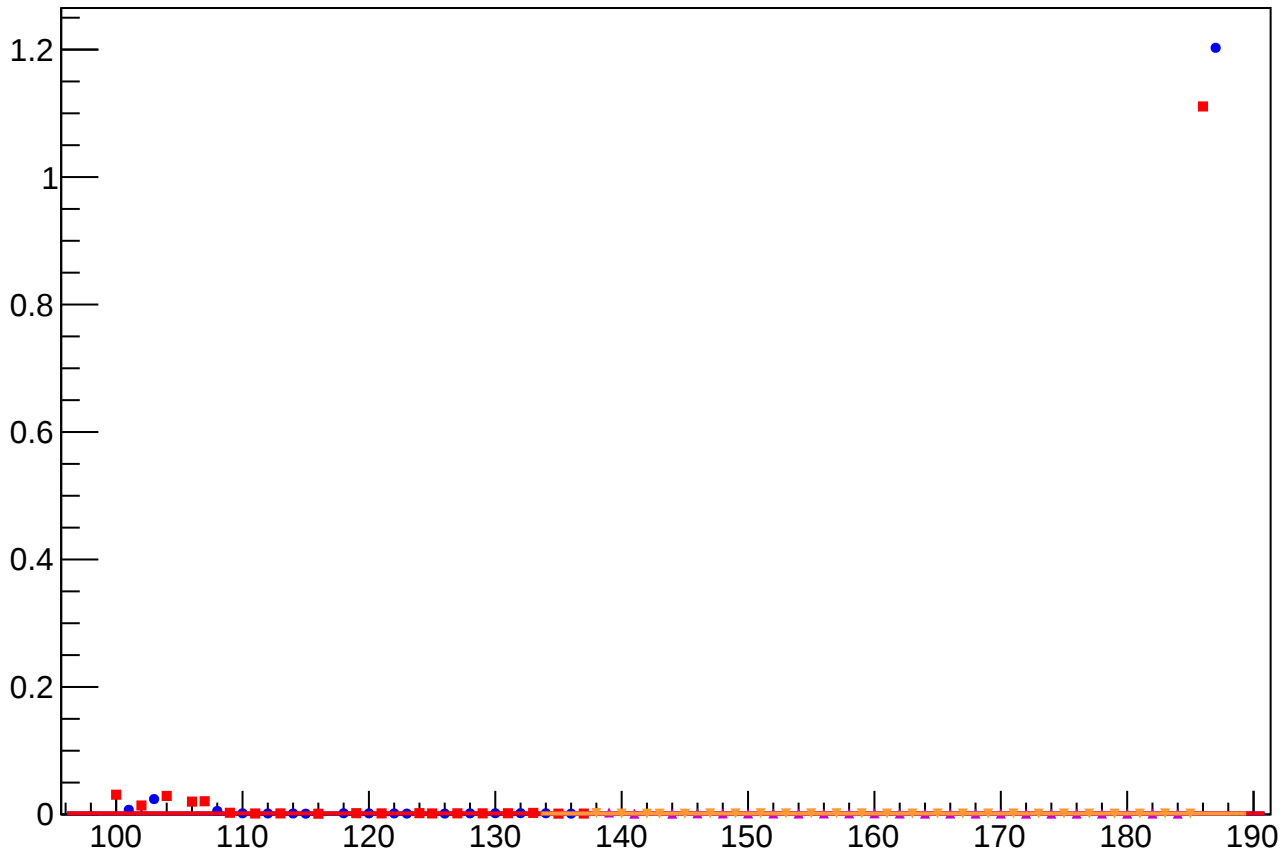
Out: 0.000+/-0.000 χ^2/NDF : 3197563441.2/44

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

All: 0.000+/-0.000 χ^2/NDF : 13105742776.9/8

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 : 3726564.3/19

Left In: 0.001+/-0.000 χ^2/NDF : 659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

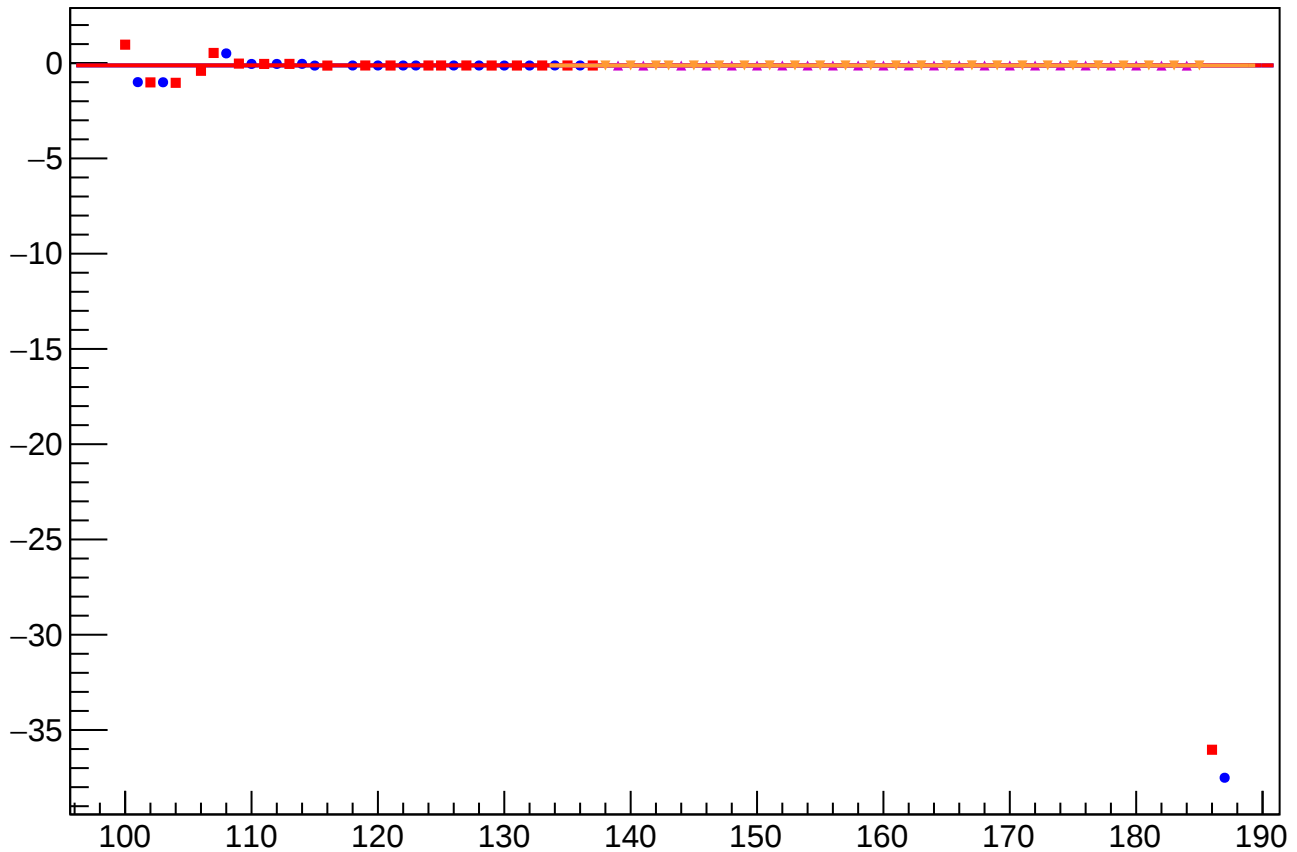
Right: 0.002+/-0.000 χ^2/NDF : 5938892.1/37

In: 0.002+/-0.000 χ^2/NDF : 2915051.7/40

Out: 0.002+/-0.000 χ^2/NDF : 4398764.9/44

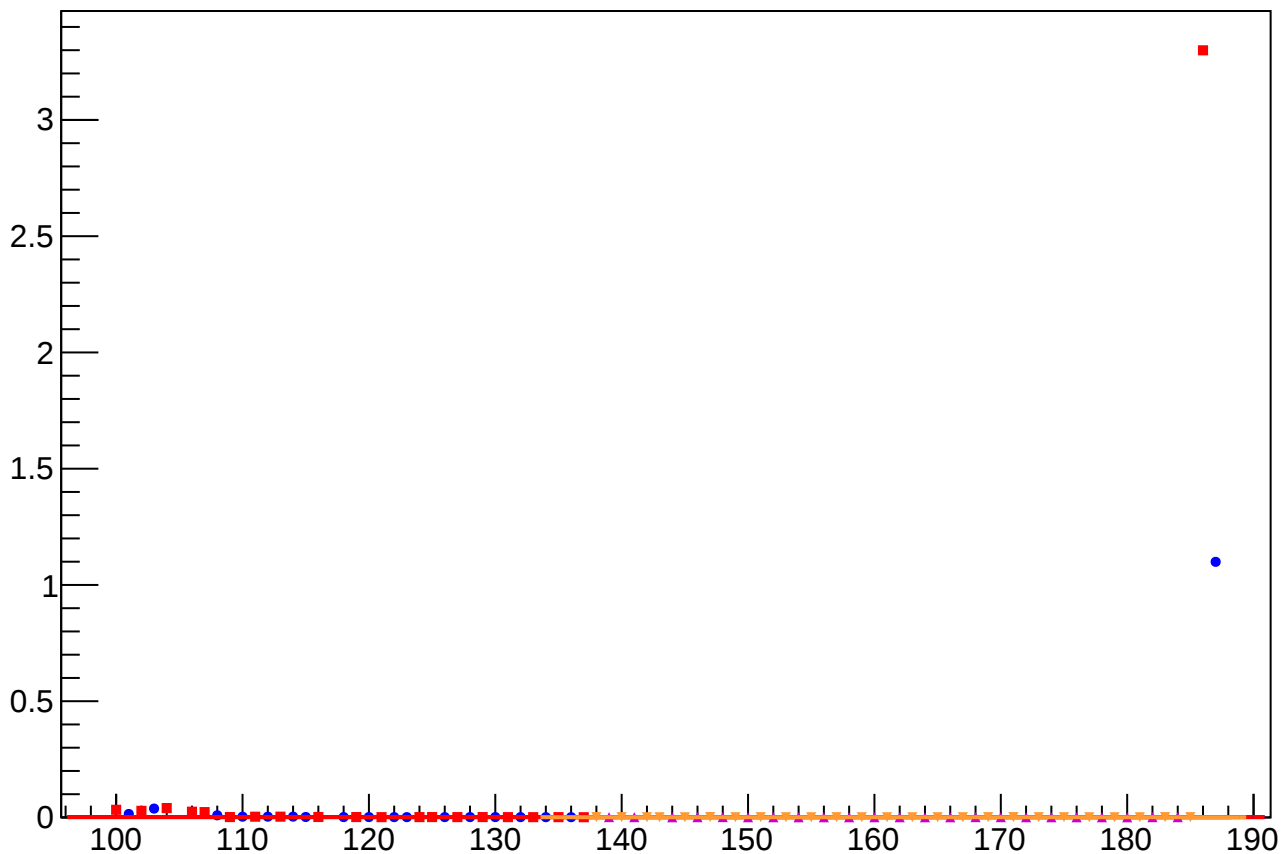
All: 0.002+/-0.000 χ^2/NDF : 7314450.4/85

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000	χ^2/NDF : 4099027707.2/17	Left: -0.121+/-0.000	χ^2/NDF : 111705307.2/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58329026.8/24	Right: -0.118+/-0.000	χ^2/NDF : 6620161029.8/37
Right Out: -0.115+/-0.000	χ^2/NDF : 2498317388.1/19	In: -0.121+/-0.000	χ^2/NDF : 4152770718.8/40
Left In: -0.121+/-0.000	χ^2/NDF : 53134323.3/22	Out: -0.121+/-0.000	χ^2/NDF : 2611976225.4/44
		All: -0.121+/-0.000	χ^2/NDF : 6765703115.8/8

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 : 4246759.1/19

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

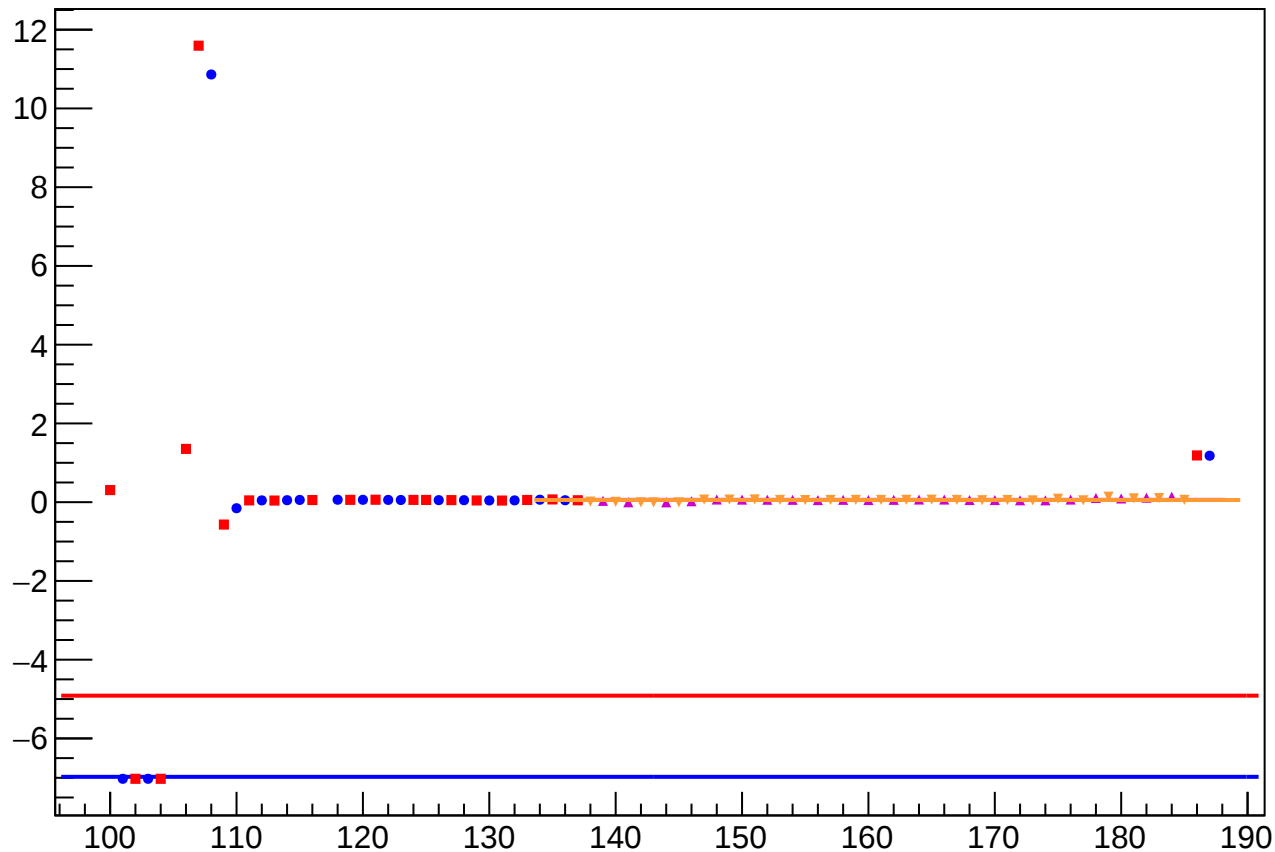
Right: 0.002+/-0.000 χ^2/NDF : 7431085.0/37

In: 0.001+/-0.000 χ^2/NDF :5274713.5/40

Out: 0.001+/-0.000 χ^2/NDF :6750927.2/44

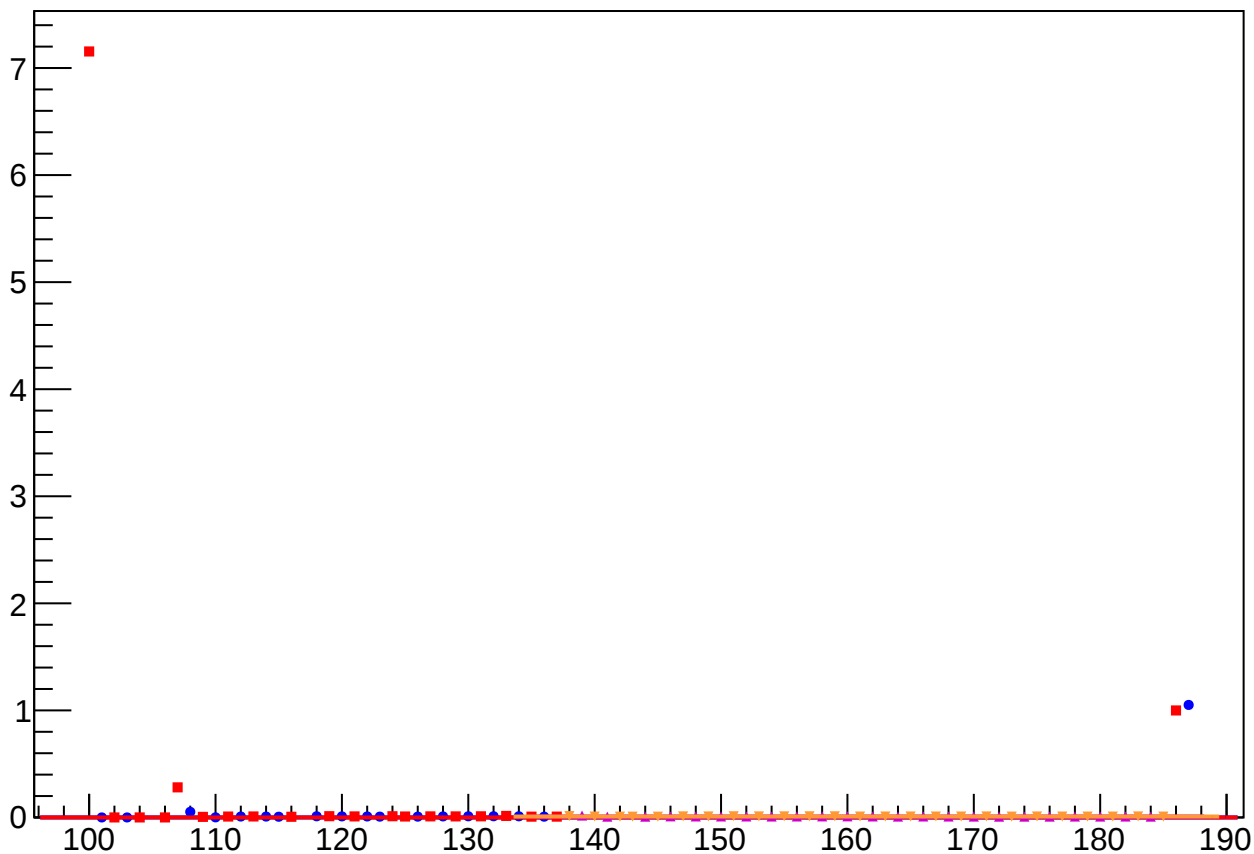
All: 0.001+/-0.000 χ^2/NDF : 12027781.1/85

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 $\chi^2/\text{NDF}: 430303214977085.2$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348546867901.9/19$ 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 $\chi^2/\text{NDF}: 370175234907113.3/19$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435811822687.7/117$

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 : 9455873.0/19

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

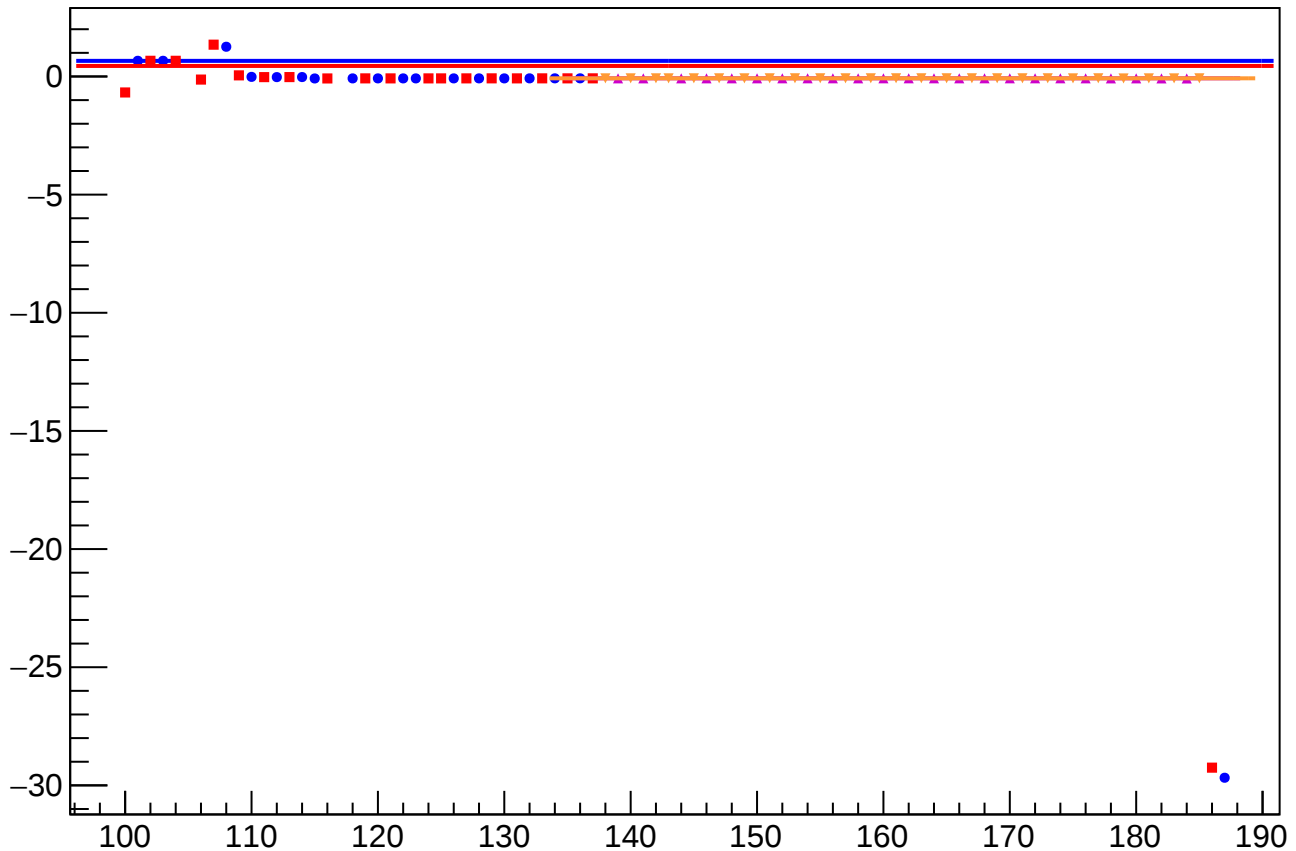
Right: 0.000+/-0.000 χ^2/NDF : 17967904.9/37

In: 0.000+/-0.000 χ^2/NDF : 36149324.4/40

Out: 0.000+/-0.000 χ^2/NDF : 38484900.7/44

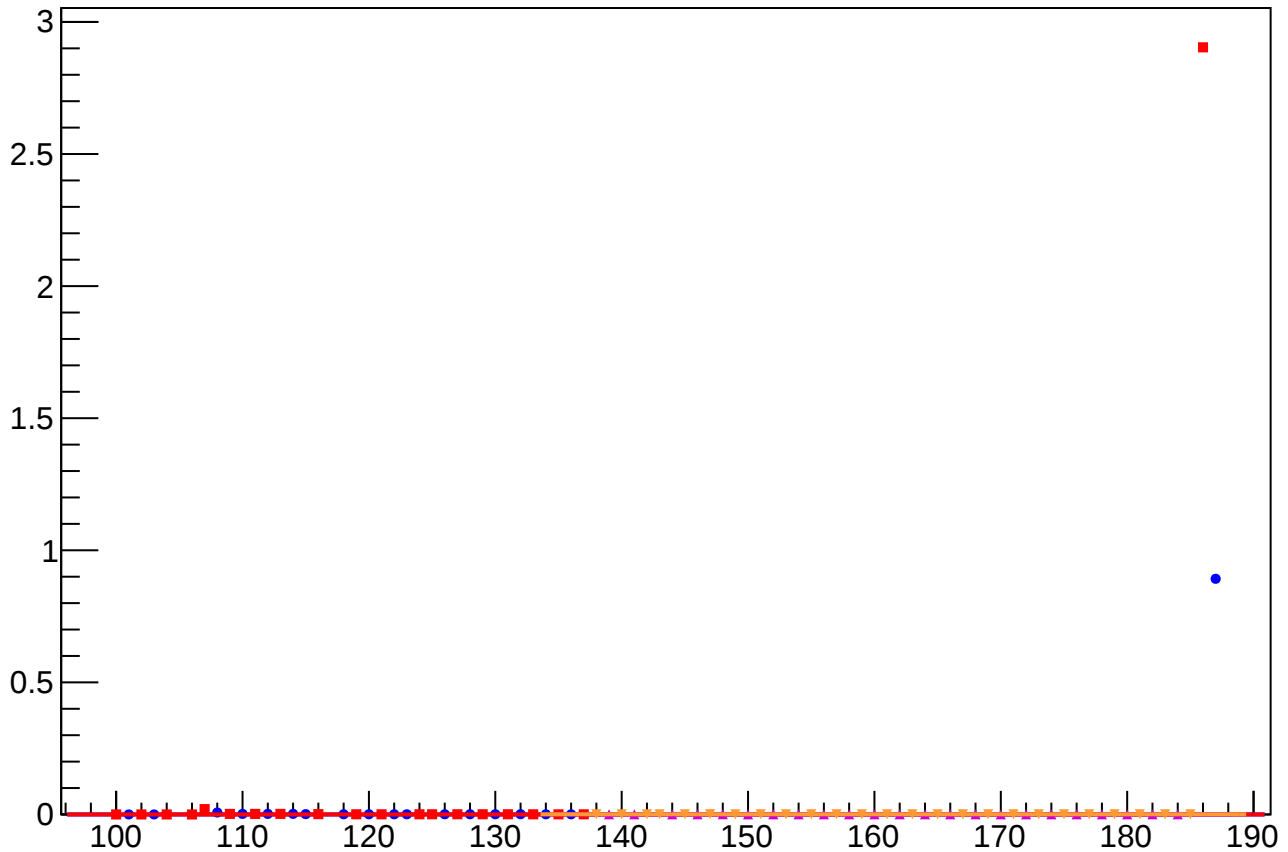
All: 0.000+/-0.000 χ^2/NDF : 74634715.4/85

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 : 473931304280905.7
Right Out: 0.446+/-0.000	χ^2/NDF : 405416779429110.9/19	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 : 420611386496322.8/4
		All: 0.537+/-0.000	χ^2/NDF : 51598136312427

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 : 10152999.5/19

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

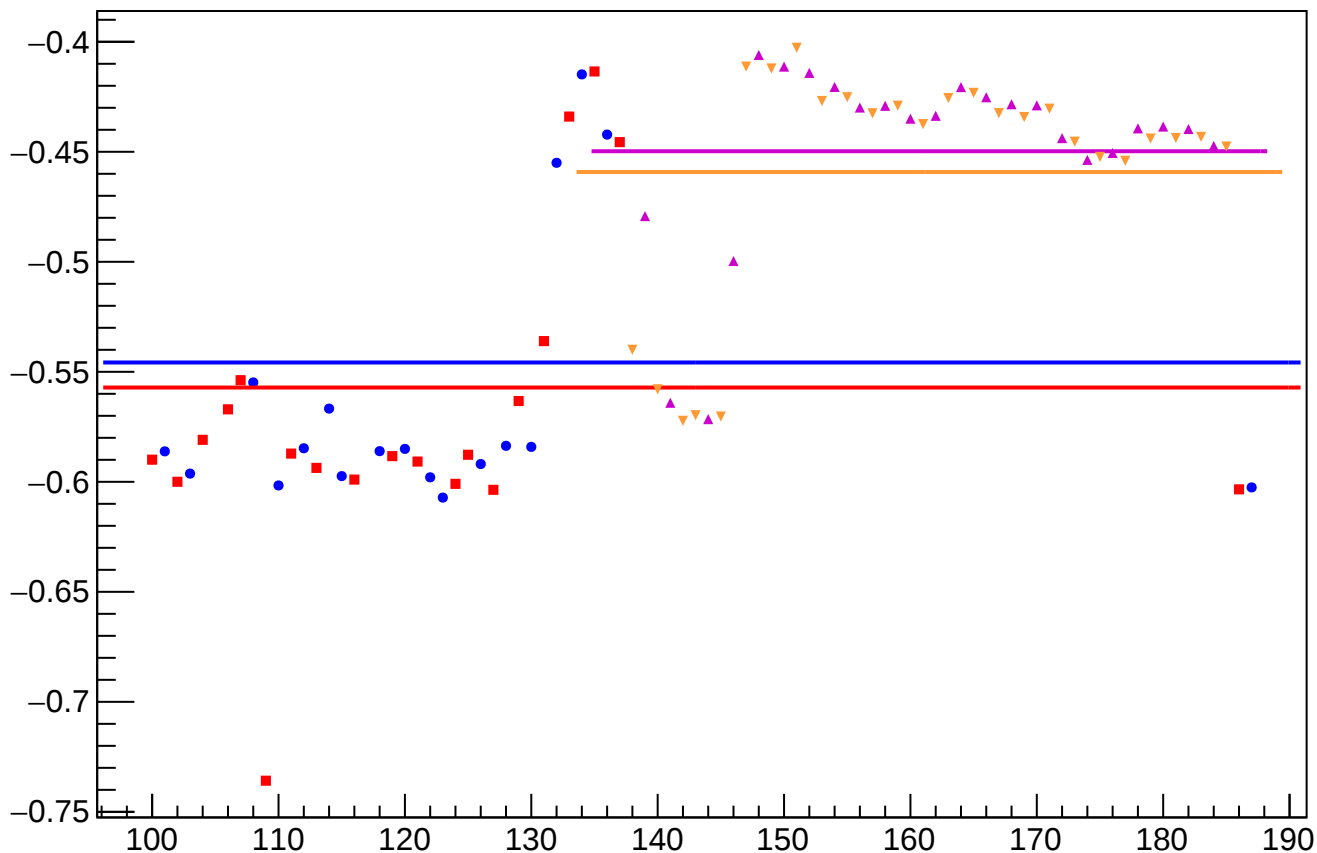
Right: 0.000+/-0.000 χ^2/NDF : 20270429.6/37

In: 0.000+/-0.000 χ^2/NDF : 41096460.7/40

Out: 0.000+/-0.000 χ^2/NDF : 42867594.3/44

All: 0.000+/-0.000 χ^2/NDF : 83964454.5/85

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.546+/-0.000 χ^2/NDF : 46557174.2/17

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.557+/-0.000 χ^2/NDF : 64138565.6/19

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

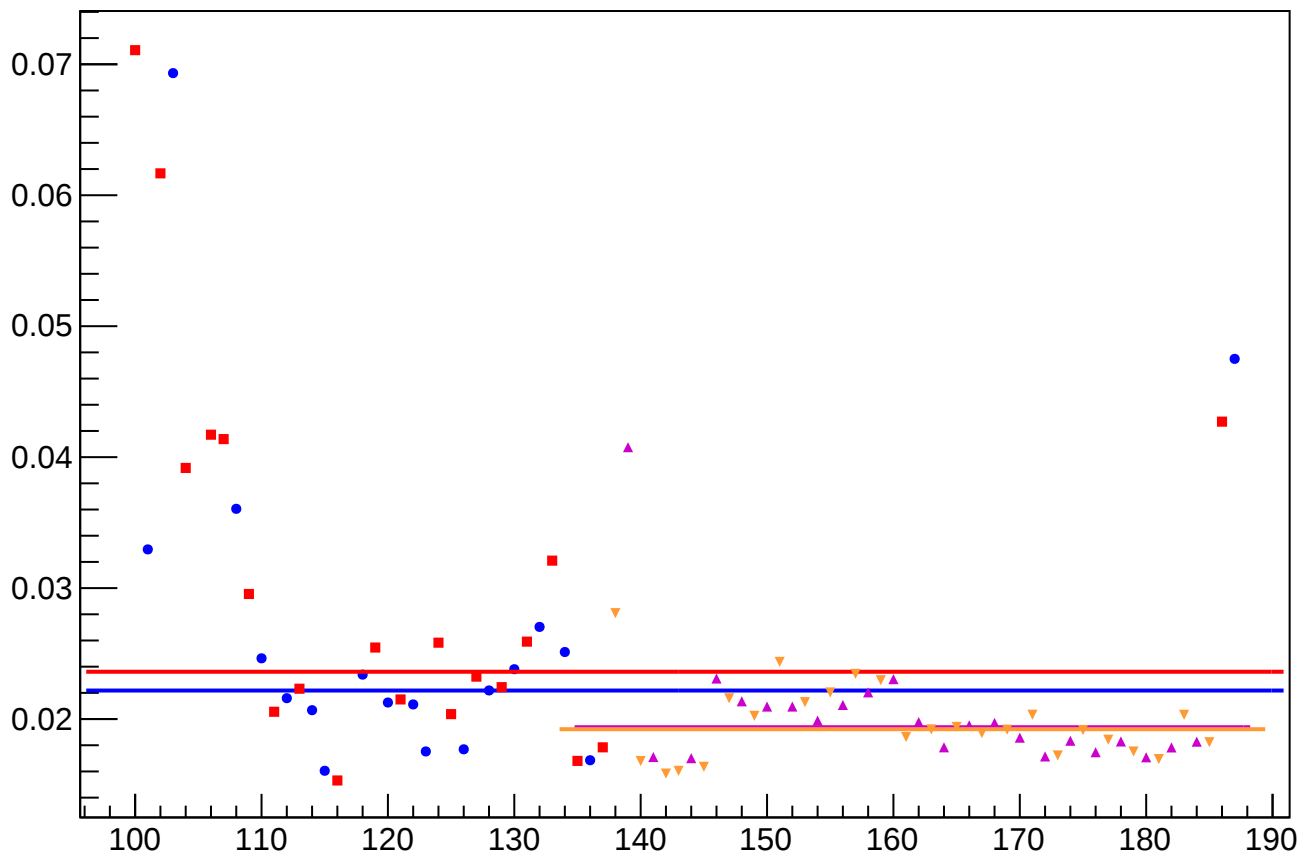
Right: -0.551+/-0.000 χ^2/NDF : 111358371.4/37

In: -0.471+/-0.000 χ^2/NDF : 197967869.7/40

Out: -0.479+/-0.000 χ^2/NDF : 254919261.1/44

All: -0.475+/-0.000 χ^2/NDF : 454460270.3/85

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 : 1297162.1/19

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

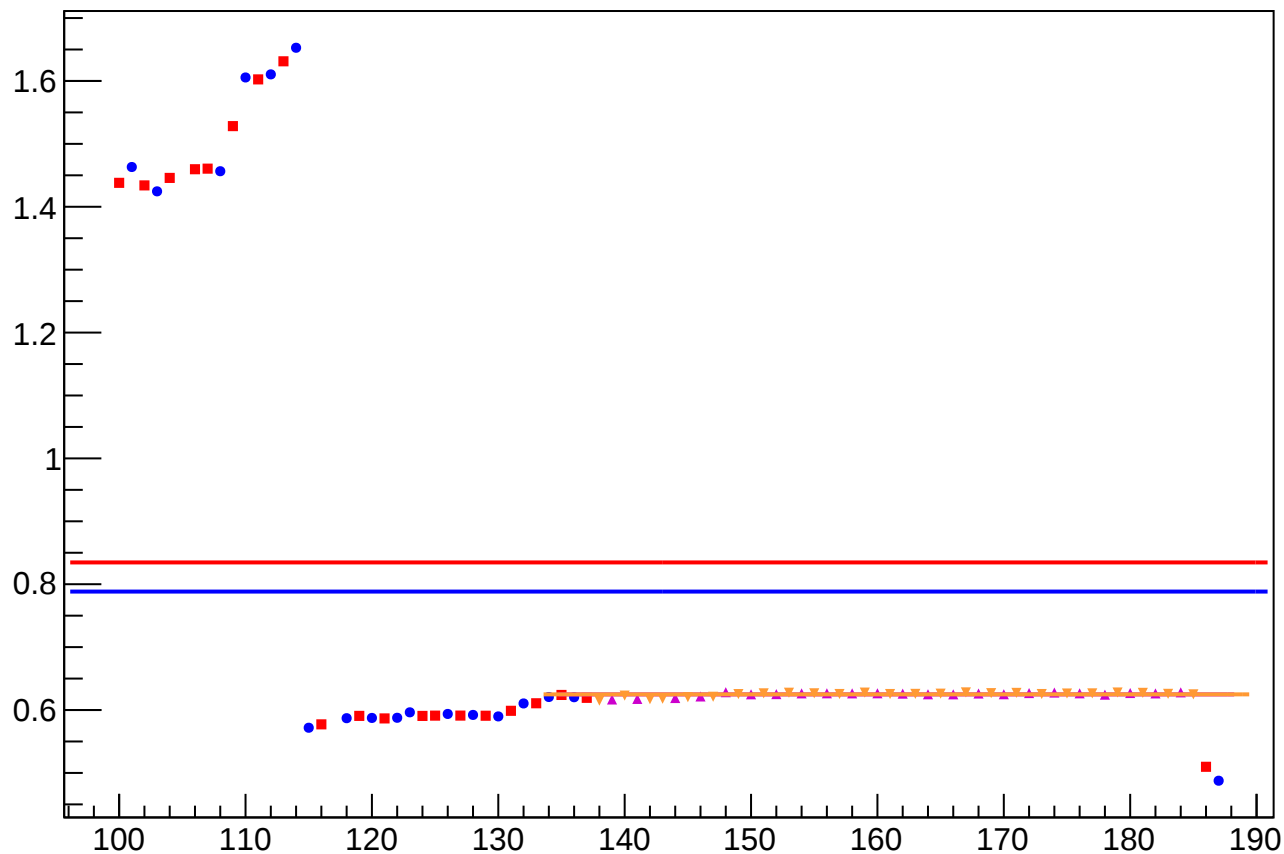
Right: 0.023+/-0.000 χ^2/NDF : 2357474.1/37

In: 0.020+/-0.000 χ^2/NDF : 1823549.2/40

Out: 0.020+/-0.000 χ^2/NDF : 2107197.6/44

All: 0.020+/-0.000 χ^2/NDF : 3931357.8/85

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: 0.835 $\pm$ 0.000 χ^2 /NDF: 4147427451.5/19

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

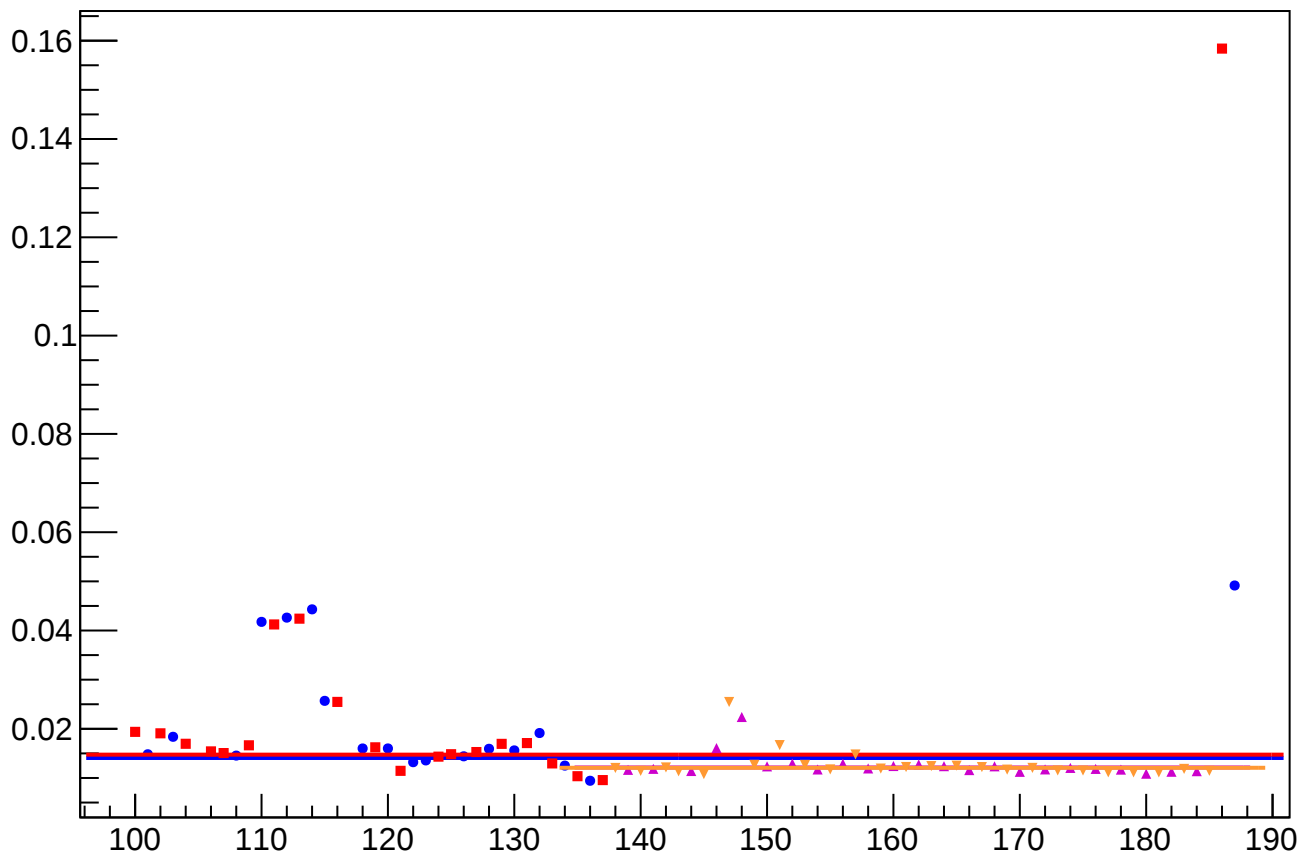
Right: 0.811 $\pm$ 0.000 χ^2 /NDF: 7755314197.6/37

In: 0.658 $\pm$ 0.000 χ^2 /NDF:4190792048.8/40

Out: 0.664 $\pm$ 0.000 χ^2 /NDF:5144051124.5/44

All: 0.661 $\pm$ 0.000 χ^2 /NDF: 9337836502.9/85

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1538609.1/17

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1842922.5/19

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

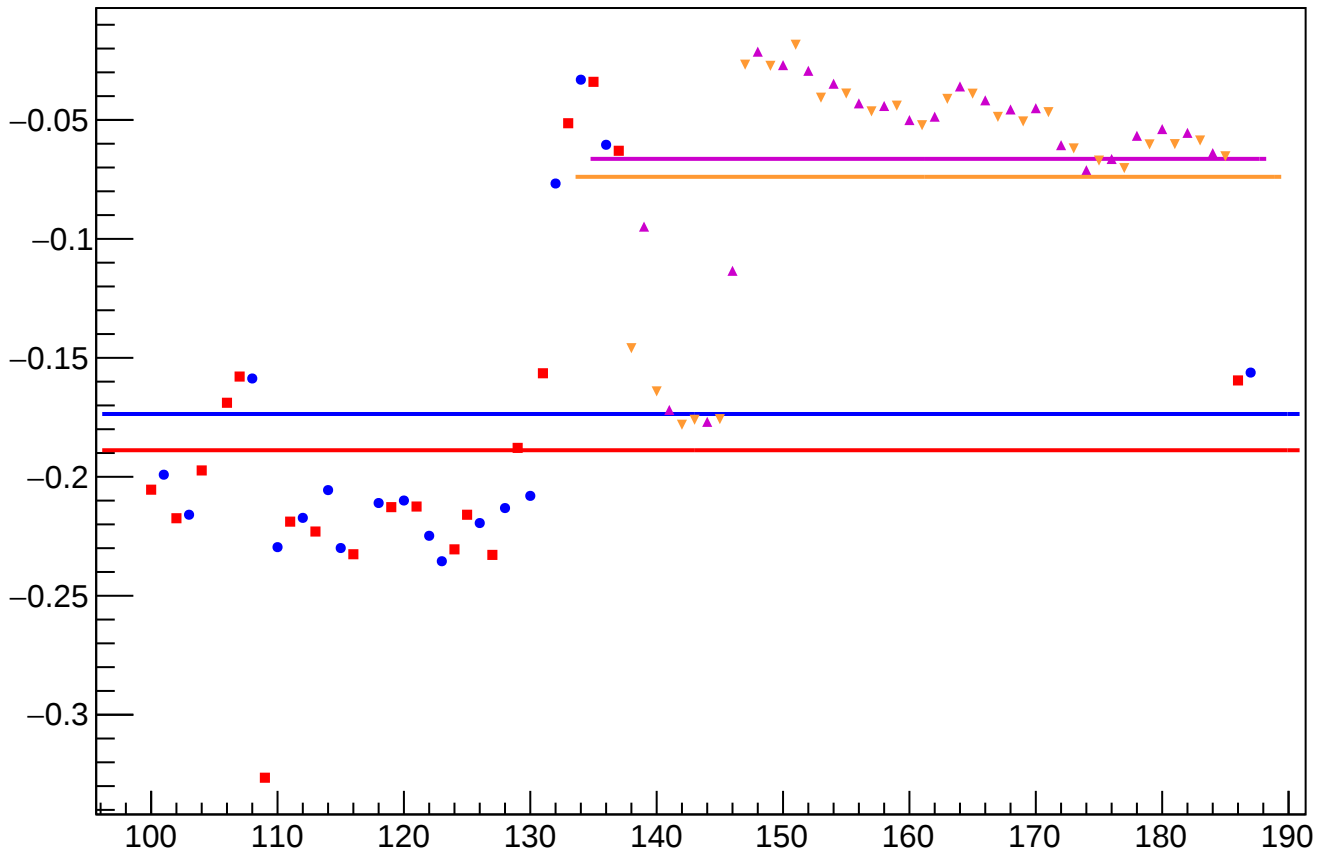
Right: 0.014+/-0.000 χ^2/NDF : 3394525.9/37

In: 0.013+/-0.000 χ^2/NDF : 2198059.9/40

Out: 0.013+/-0.000 χ^2/NDF : 2824037.7/44

All: 0.013+/-0.000 χ^2/NDF : 5022440.8/85

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: -0.189+/-0.000 χ^2/NDF : 81602165.2/19

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

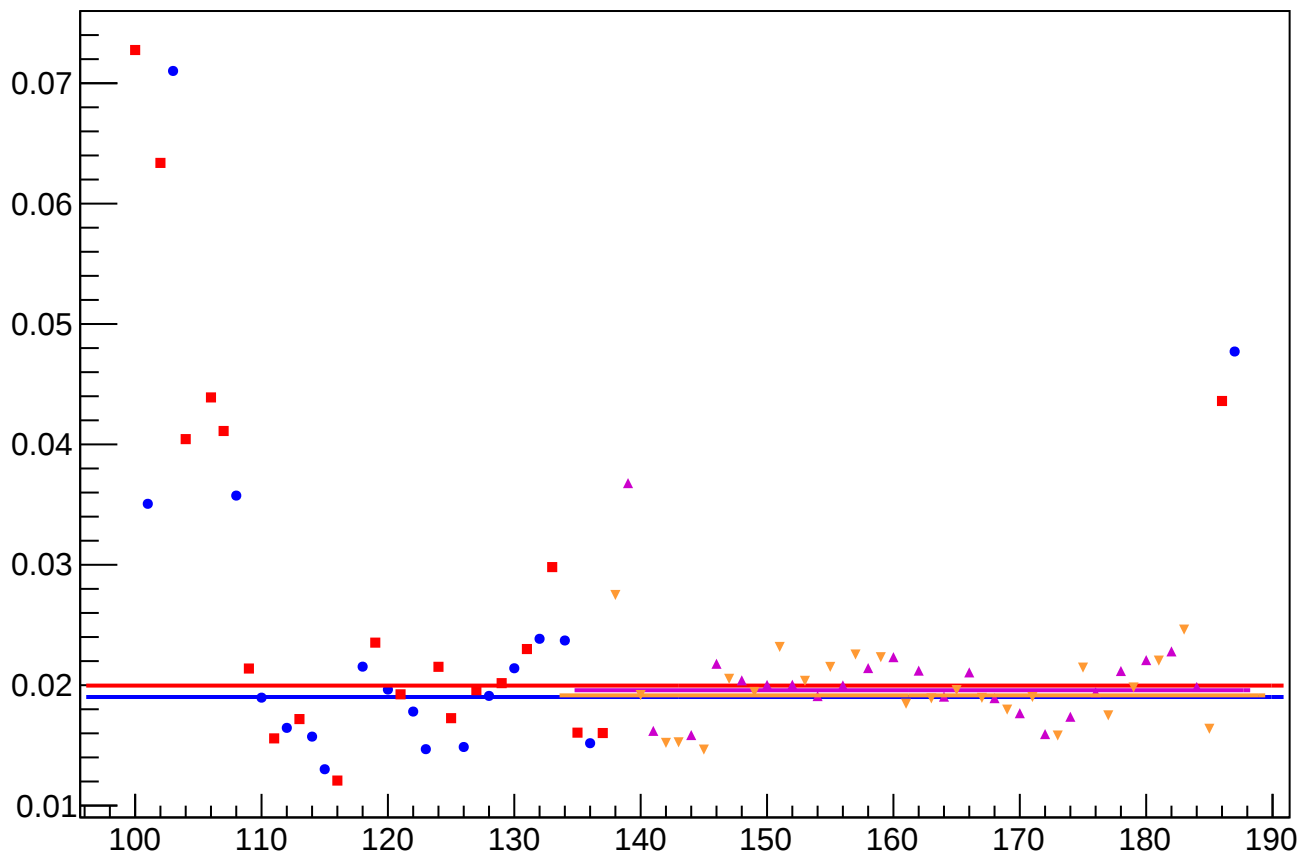
Right: -0.181+/-0.000 χ^2/NDF : 150055145.0/37

In: -0.095+/-0.000 χ^2/NDF : 259693458.5/40

Out: -0.102+/-0.000 χ^2/NDF : 324363452.6/44

All: -0.099+/-0.000 χ^2/NDF : 585362261.2/85

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: 0.020+/-0.000 χ^2/NDF : 1661485.7/19

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

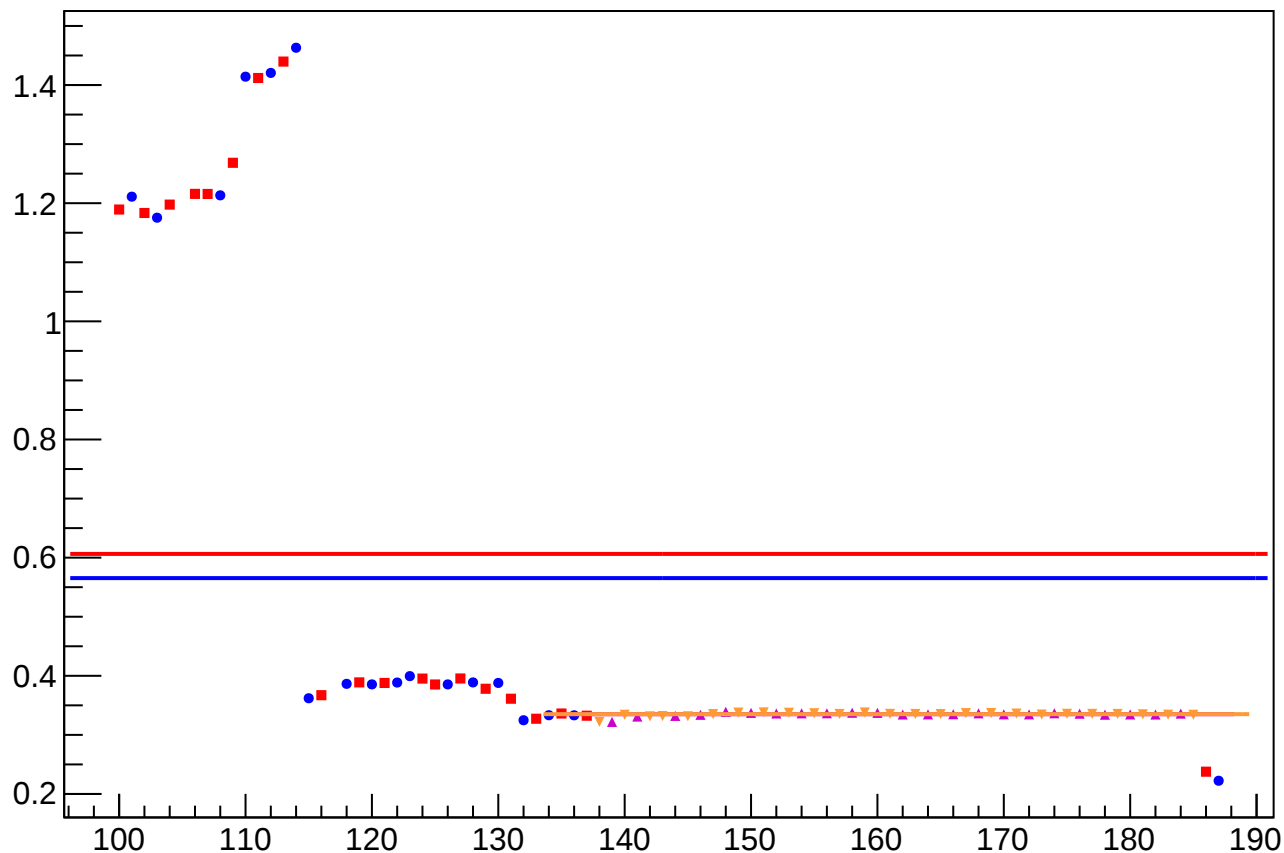
Right: 0.019+/-0.000 χ^2/NDF : 2989234.6/37

In: 0.019+/-0.000 χ^2/NDF : 1973135.1/40

Out: 0.019+/-0.000 χ^2/NDF : 2315965.1/44

All: 0.019+/-0.000 χ^2/NDF : 4289376.8/85

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: 0.606+/-0.000 χ^2/NDF : 5525190982.5/19

Left In: 0.335+/-0.000 χ^2/NDF : 1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

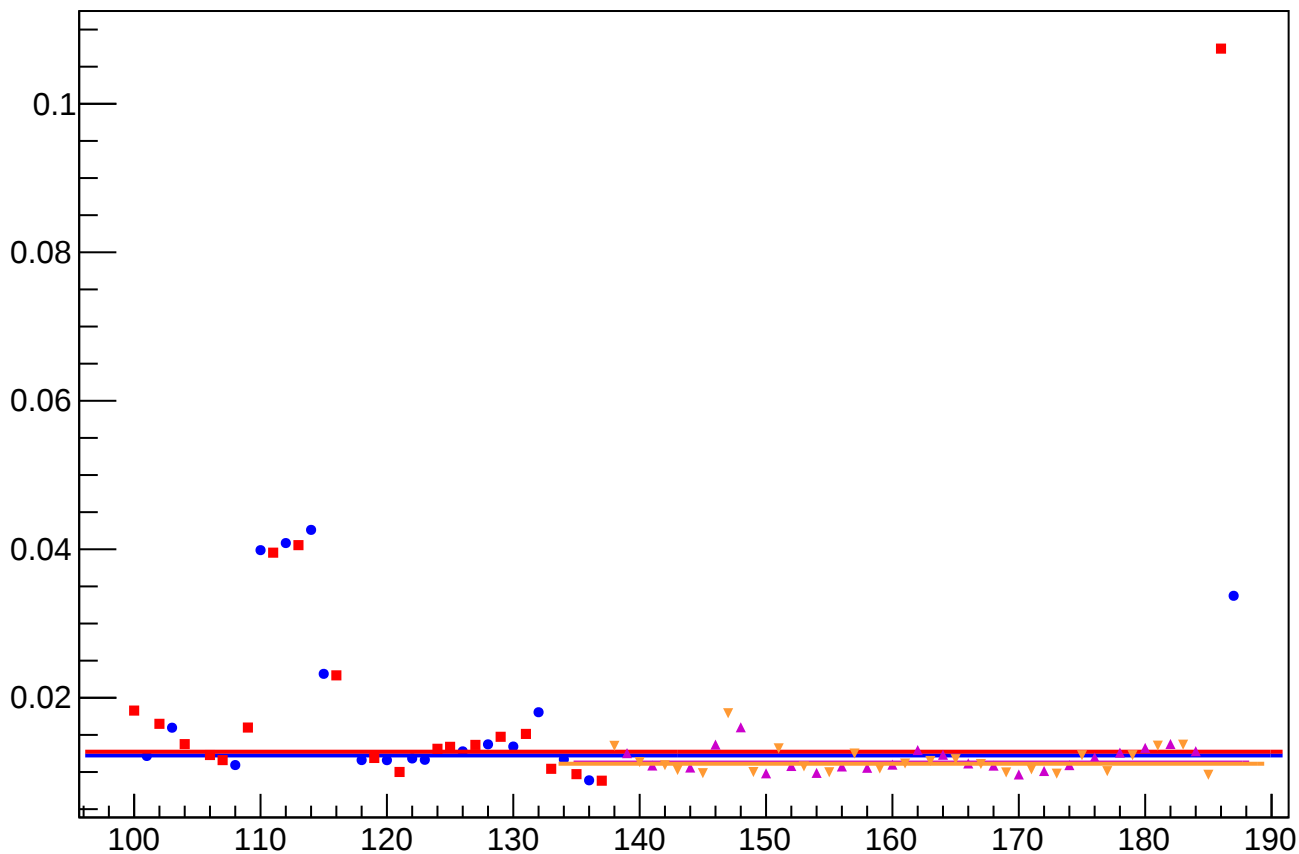
Right: 0.586+/-0.000 χ^2/NDF : 10597650053.4/37

In: 0.387+/-0.000 χ^2/NDF : 6601486148.3/40

Out: 0.391+/-0.000 χ^2/NDF : 7668267353.5/44

All: 0.389+/-0.000 χ^2/NDF : 14271193101.8/88

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1417550.7/17

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1819205.3/19

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

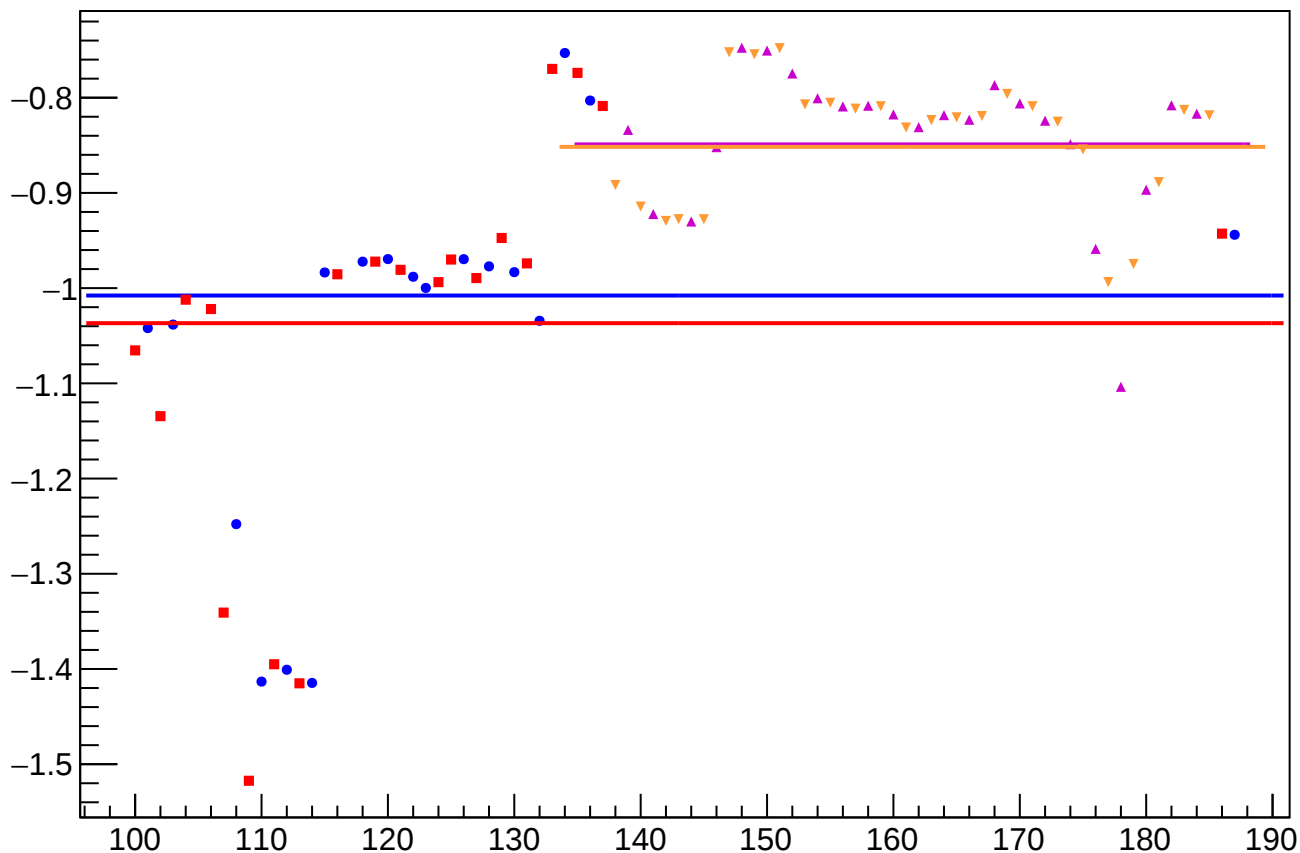
Right: 0.012+/-0.000 χ^2/NDF : 3246219.9/37

In: 0.011+/-0.000 χ^2/NDF : 1973813.8/40

Out: 0.011+/-0.000 χ^2/NDF : 2580456.1/44

All: 0.011+/-0.000 χ^2/NDF : 4554552.6/85

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.008 ± 0.000 χ^2/NDF : 393366862.4/17

Left Out: -0.852 ± 0.000 χ^2/NDF : 189276591.7/24

Right Out: -1.037 ± 0.000 χ^2/NDF : 536301392.2/19

Left In: -0.849 ± 0.000 χ^2/NDF : 256438306.8/22

Left: -0.850 ± 0.000 χ^2/NDF : 445849768.4/47

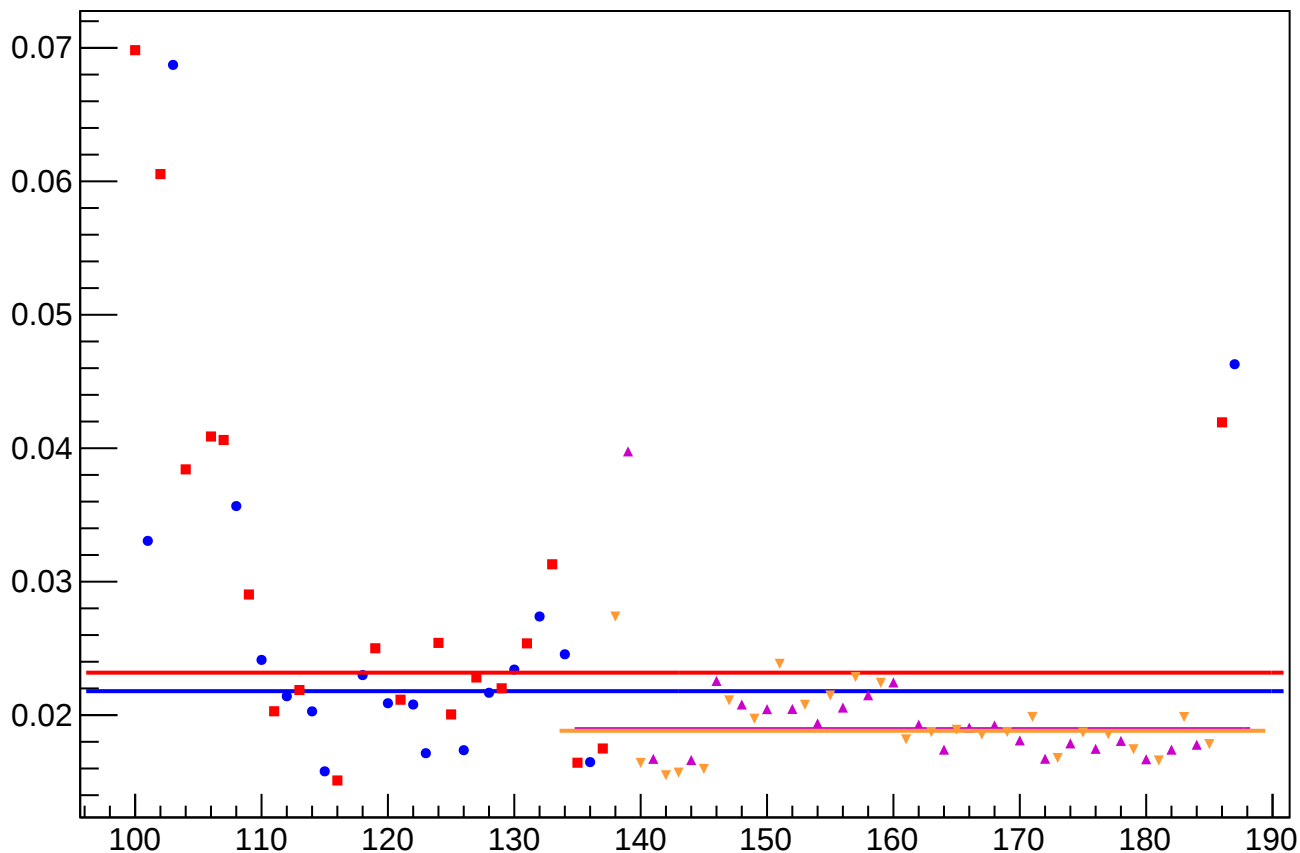
Right: -1.022 ± 0.000 χ^2/NDF : 934125535.8/37

In: -0.883 ± 0.000 χ^2/NDF : 862940885.7/40

Out: -0.888 ± 0.000 χ^2/NDF : 1010698732.9/44

All: -0.886 ± 0.000 χ^2/NDF : 1874275612.8/88

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 1063229.4/17

Left Out: 0.019+/-0.000 χ^2/NDF : 490084.5/24

Right Out: 0.023+/-0.000 χ^2/NDF : 1293319.4/19

Left In: 0.019+/-0.000 χ^2/NDF : 645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

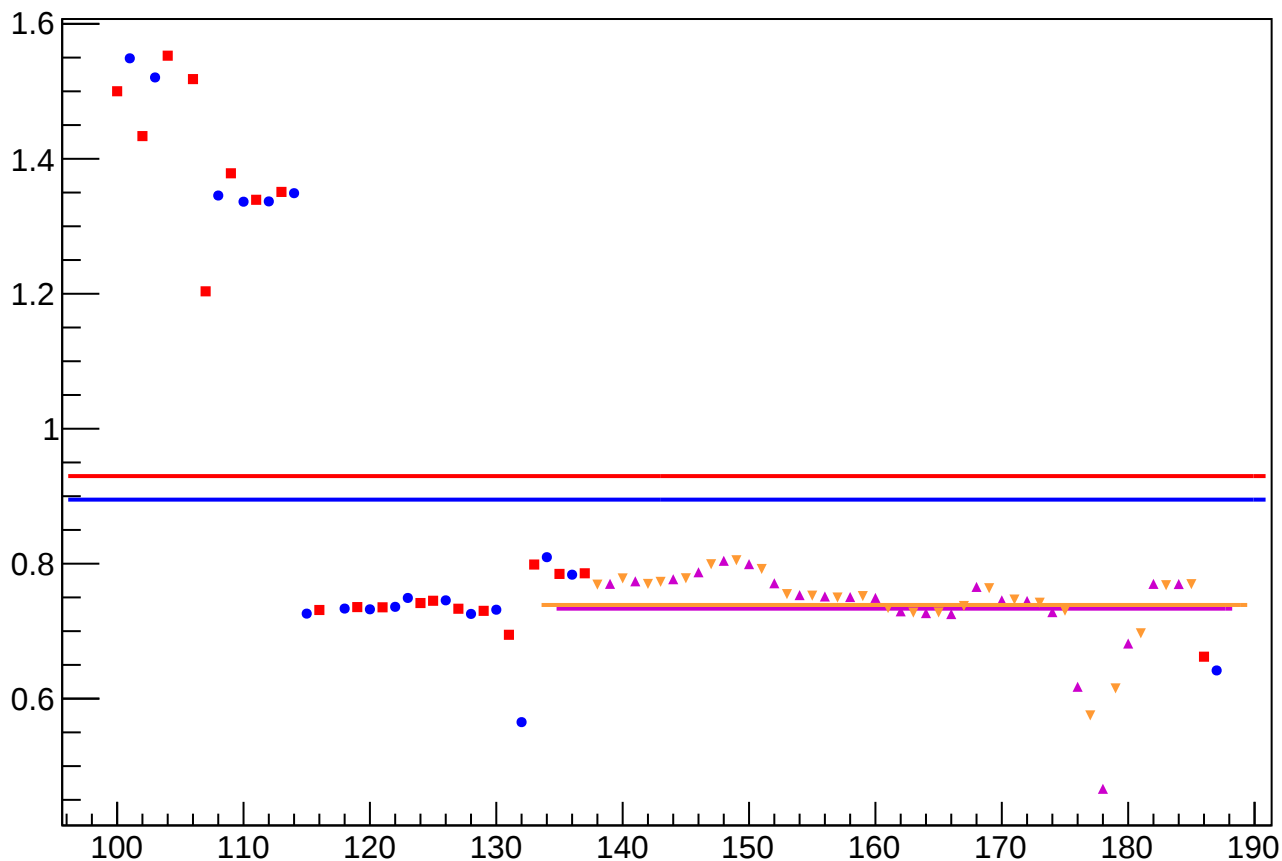
Right: 0.022+/-0.000 χ^2/NDF : 2376885.8/37

In: 0.020+/-0.000 χ^2/NDF : 1845283.3/40

Out: 0.020+/-0.000 χ^2/NDF : 2098696.3/44

All: 0.020+/-0.000 χ^2/NDF : 3944793.9/85

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.895 ± 0.000 $\chi^2/\text{NDF}: 2396726627.2/17$

Left Out: 0.739 ± 0.000 $\chi^2/\text{NDF}: 333086309.0/24$

Right Out: 0.930 ± 0.000 $\chi^2/\text{NDF}: 2421113217.2/19$

Left In: 0.733 ± 0.000 $\chi^2/\text{NDF}: 570264411.7/22$

Left: 0.736 ± 0.000 $\chi^2/\text{NDF}: 905100069.4/47$

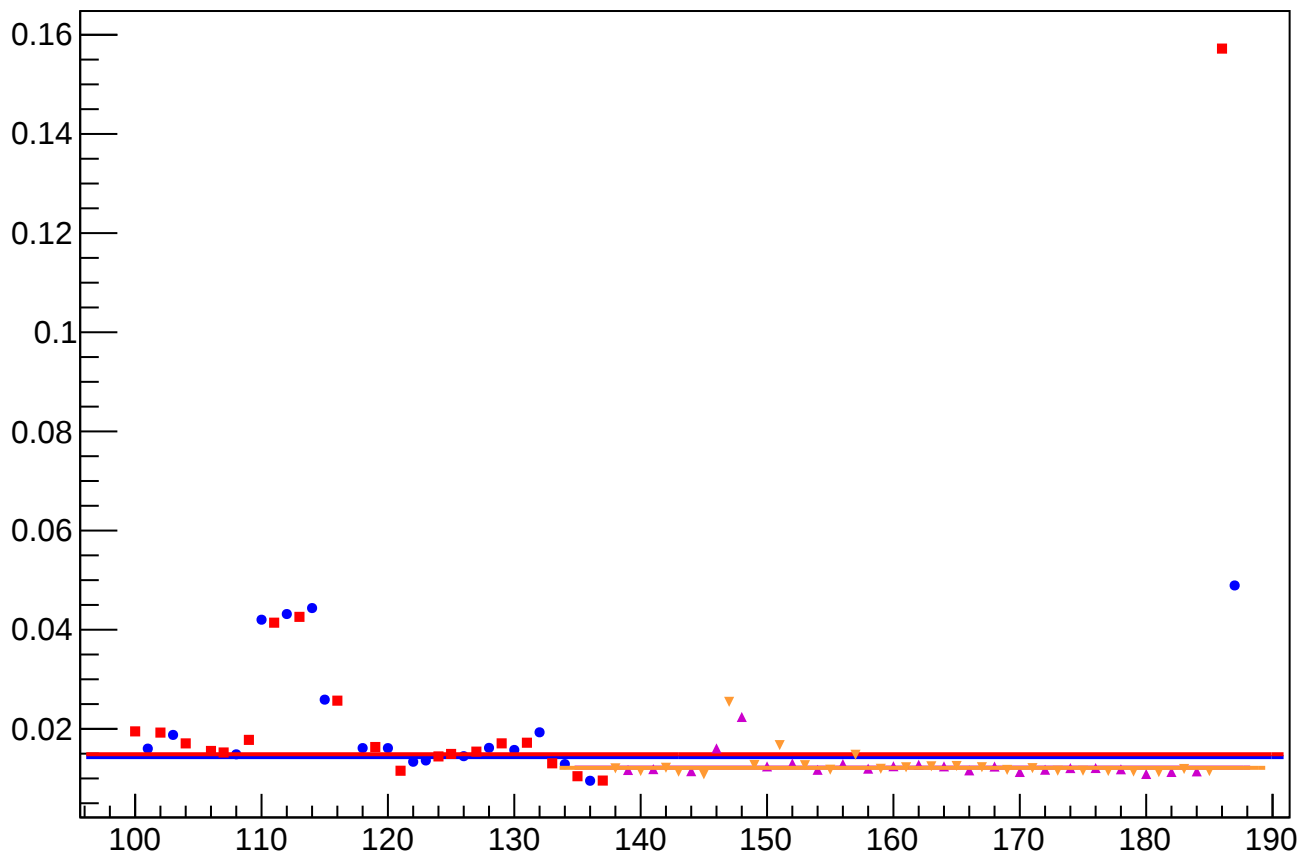
Right: 0.912 ± 0.000 $\chi^2/\text{NDF}: 4834496057.8/37$

In: 0.765 ± 0.000 $\chi^2/\text{NDF}: 3545720636.5/40$

Out: 0.774 ± 0.000 $\chi^2/\text{NDF}: 3562398435.3/44$

All: 0.770 ± 0.000 $\chi^2/\text{NDF}: 7114162628.2/85$

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1546470.0/17

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1851004.2/19

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

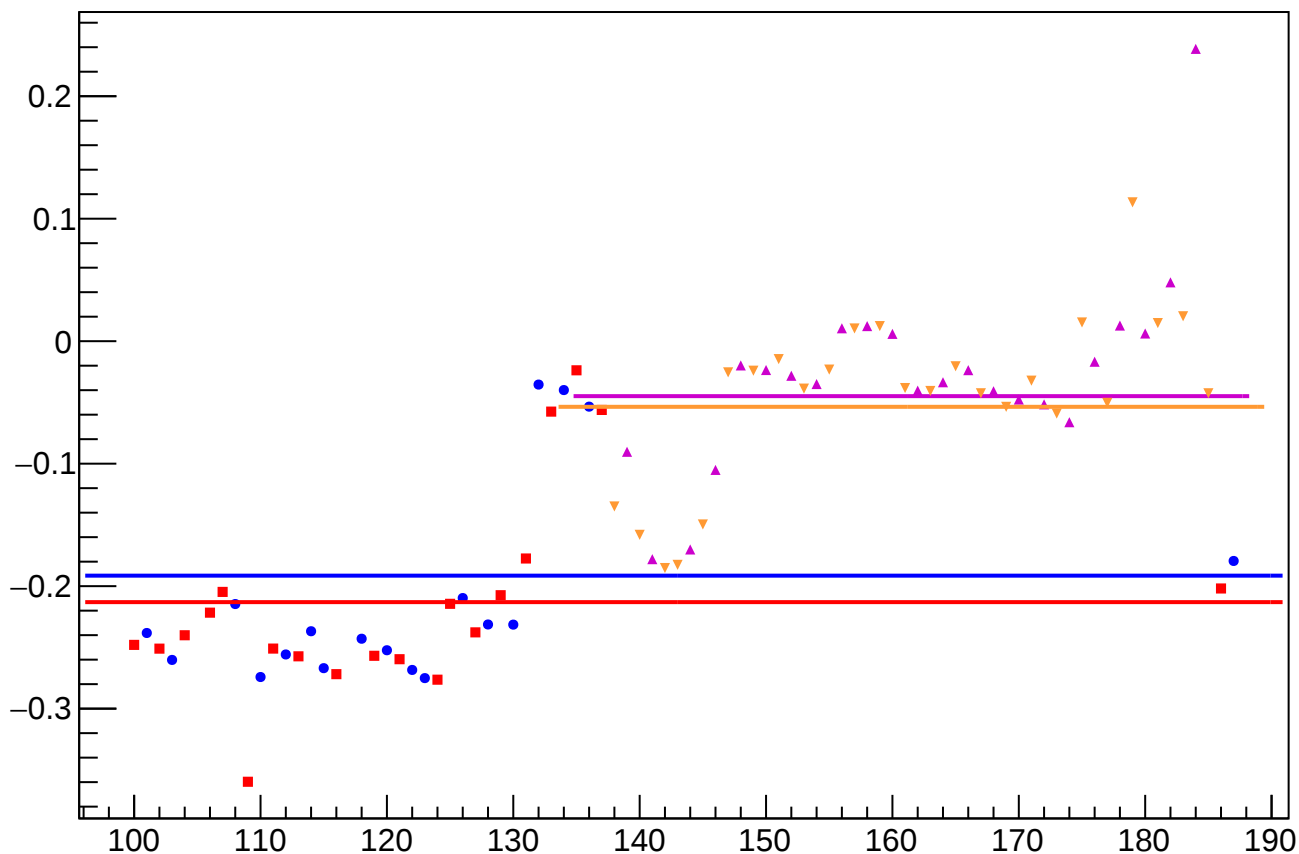
Right: 0.015+/-0.000 χ^2/NDF : 3406783.1/37

In: 0.013+/-0.000 χ^2/NDF : 2225928.9/40

Out: 0.013+/-0.000 χ^2/NDF : 2823050.5/44

All: 0.013+/-0.000 χ^2/NDF : 5049270.0/85

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: -0.213 ± 0.000 $\chi^2/\text{NDF}: 109627554.4/19$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

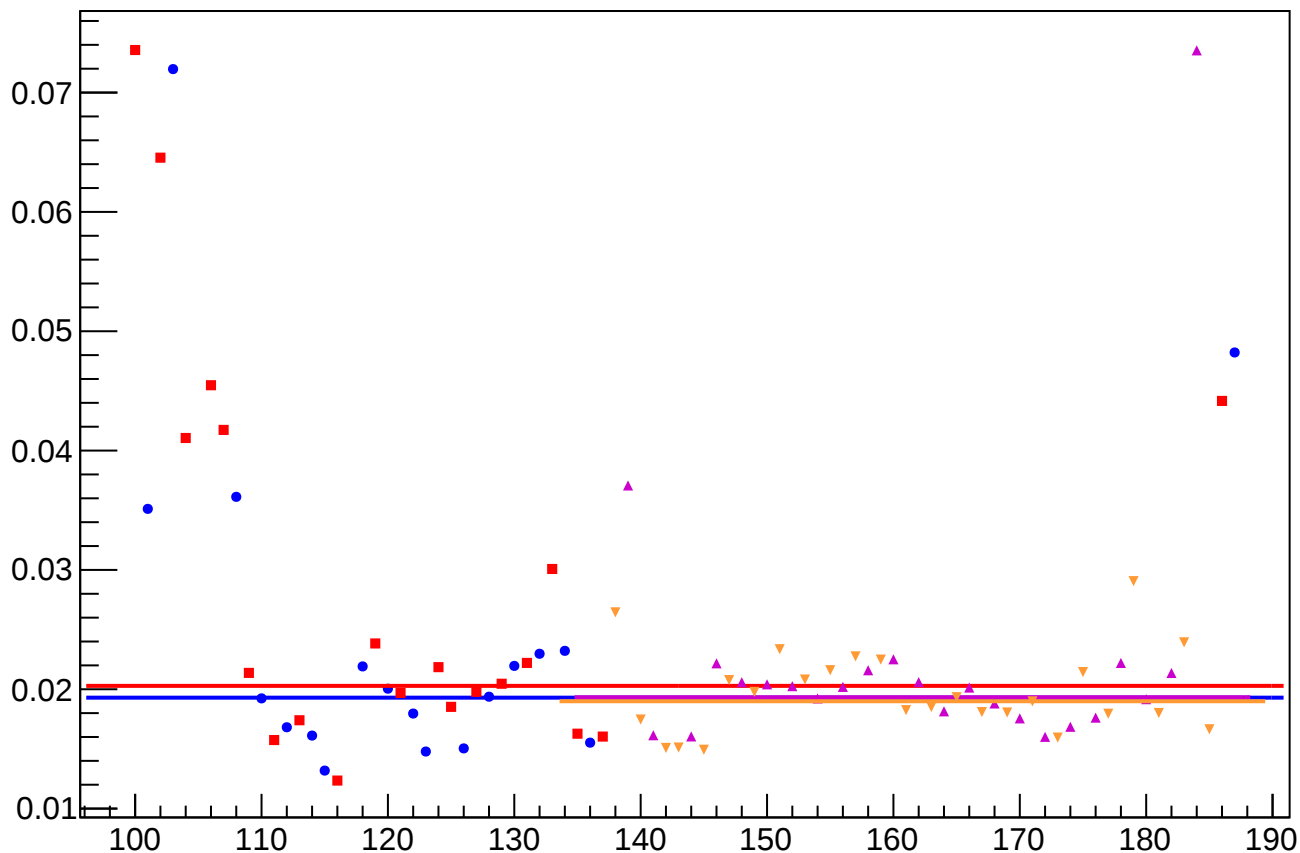
Right: -0.202 ± 0.000 $\chi^2/\text{NDF}: 218708124.4/37$

In: -0.084 ± 0.000 $\chi^2/\text{NDF}: 446420741.8/40$

Out: -0.093 ± 0.000 $\chi^2/\text{NDF}: 529916166.5/44$

All: -0.088 ± 0.000 $\chi^2/\text{NDF}: 978331529.0/85$

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: 0.020+/-0.000 χ^2/NDF : 1651236.9/19

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

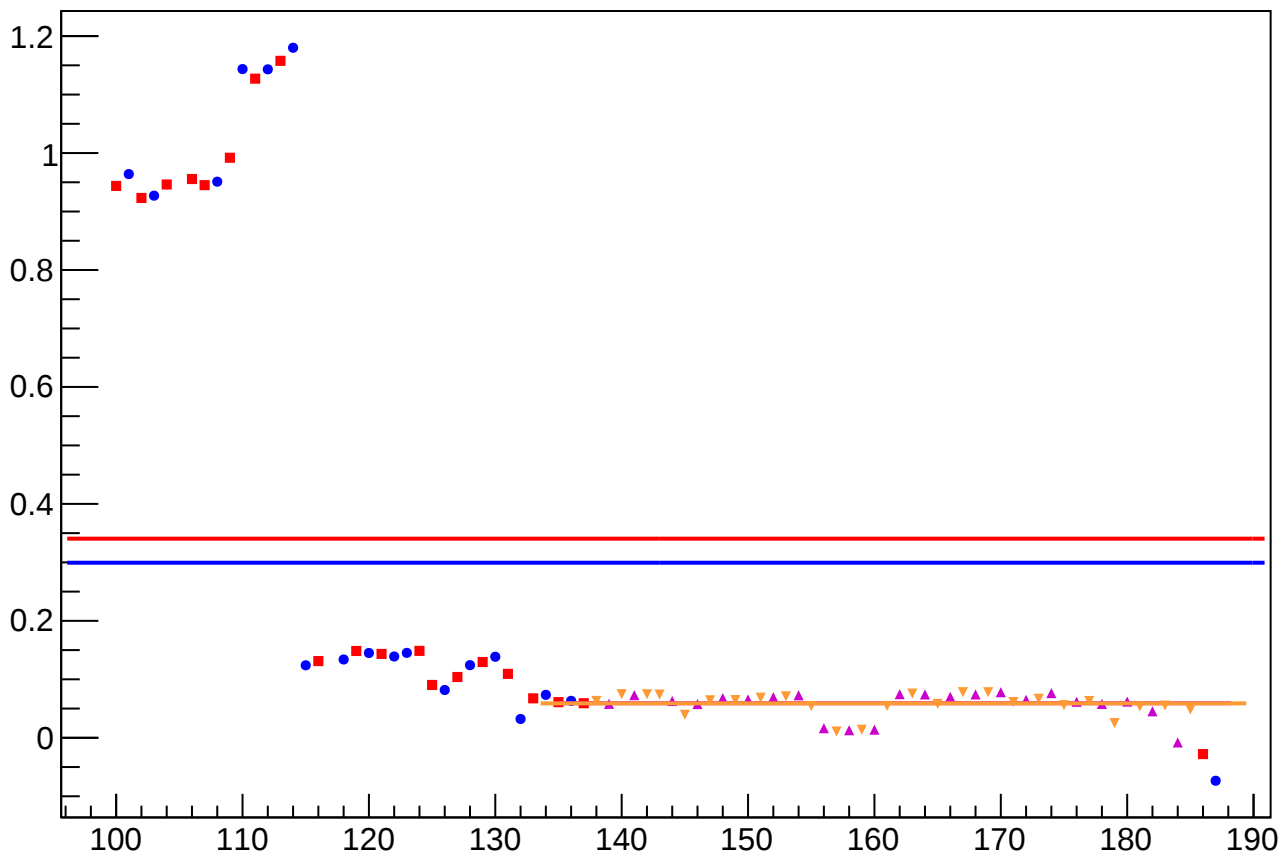
Right: 0.020+/-0.000 χ^2/NDF : 2950104.5/37

In: 0.019+/-0.000 χ^2/NDF : 2178685.6/40

Out: 0.019+/-0.000 χ^2/NDF : 2383396.3/44

All: 0.019+/-0.000 χ^2/NDF : 4562086.7/85

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: 0.320+/-0.000 χ^2/NDF : 10689542556.3/37

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: 0.341+/-0.000

χ^2/NDF : 5470120538.7/19

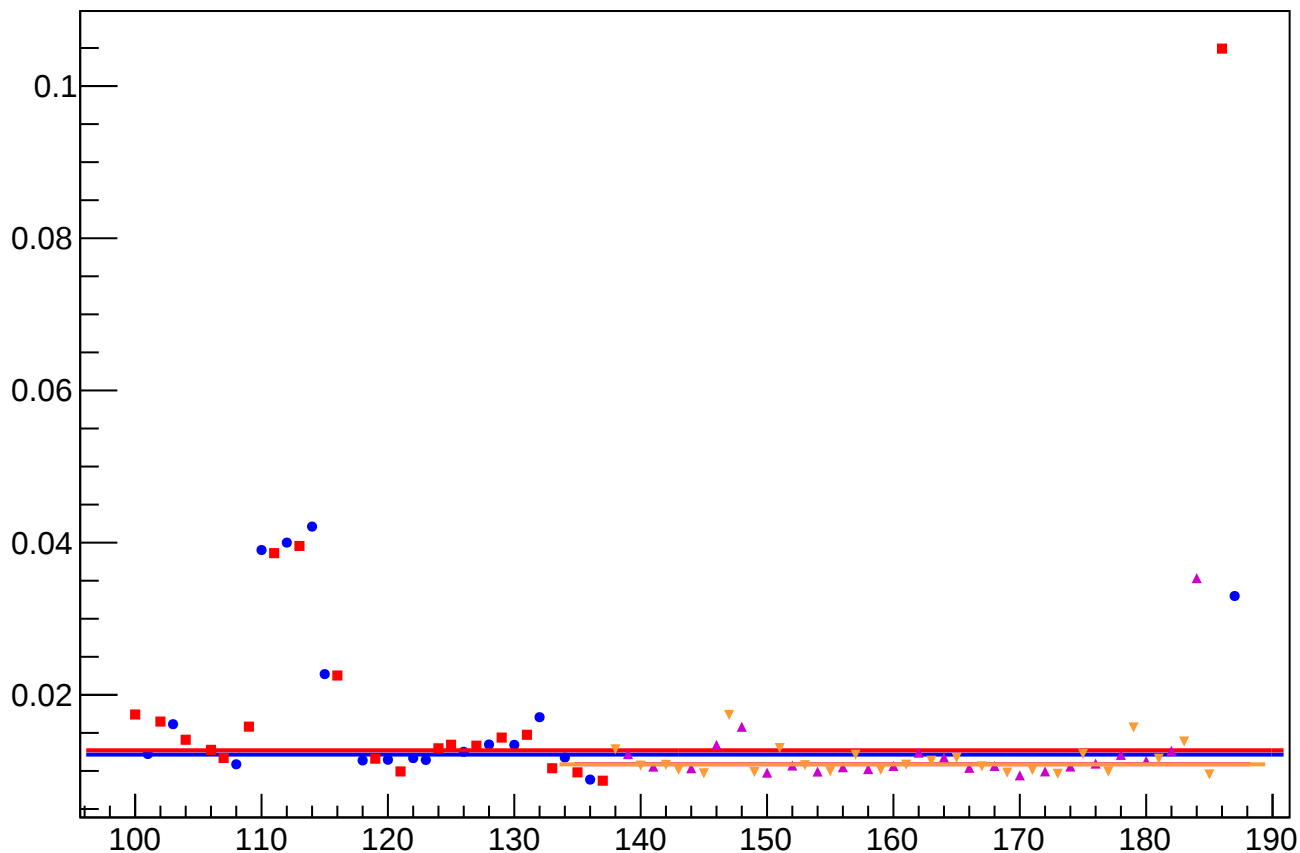
Out: 0.116+/-0.000 χ^2/NDF : 7841976691.1/44

Left In: 0.059+/-0.000

χ^2/NDF : 58640898.5/22

All: 0.114+/-0.000 χ^2/NDF : 14821805263.4/8

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: 1784798.7/19

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

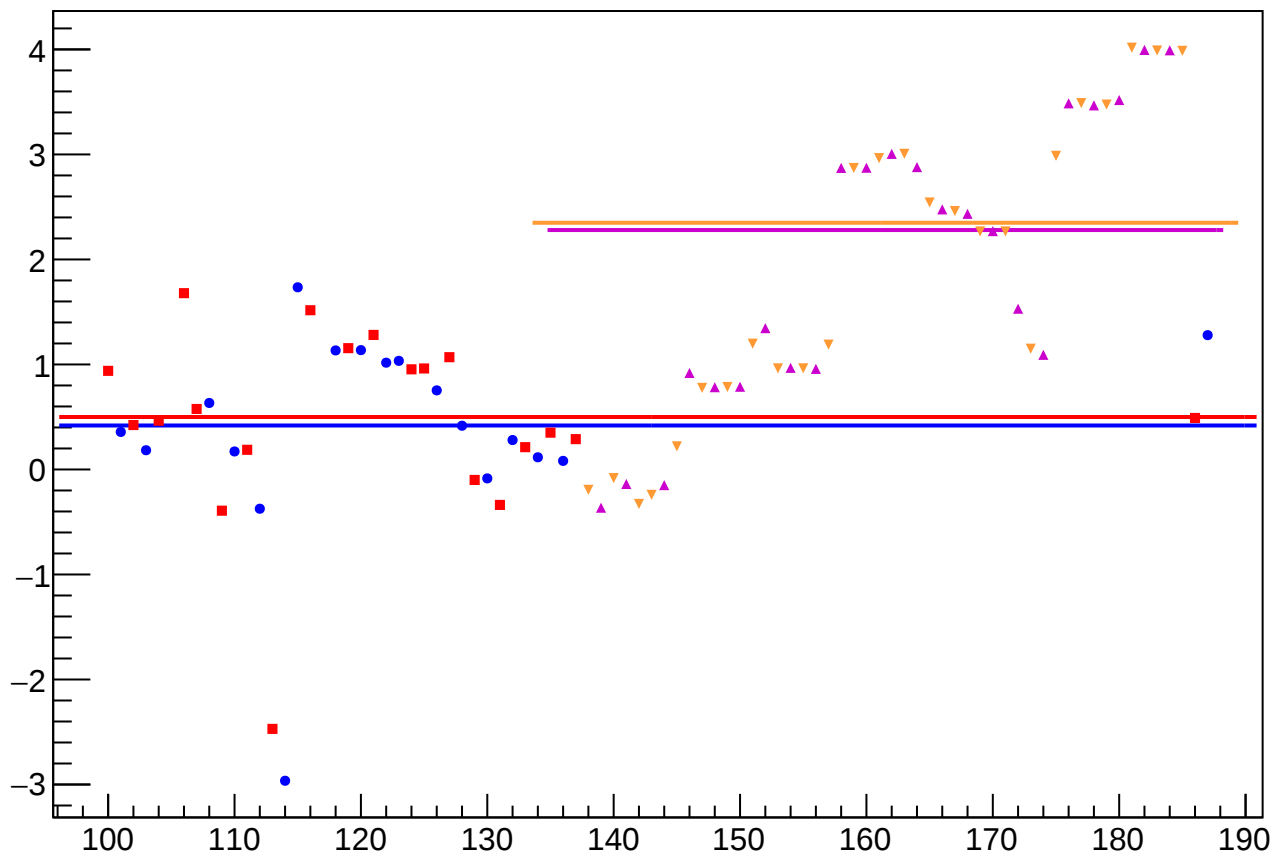
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3184994.0/37

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2013298.7/40

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2591032.6/44

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 4605268.3/85

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: 0.458 $\pm$ 0.000 χ^2/NDF : 1281987662.6/37

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: 0.500 $\pm$ 0.000

χ^2/NDF : 983086023.6/19

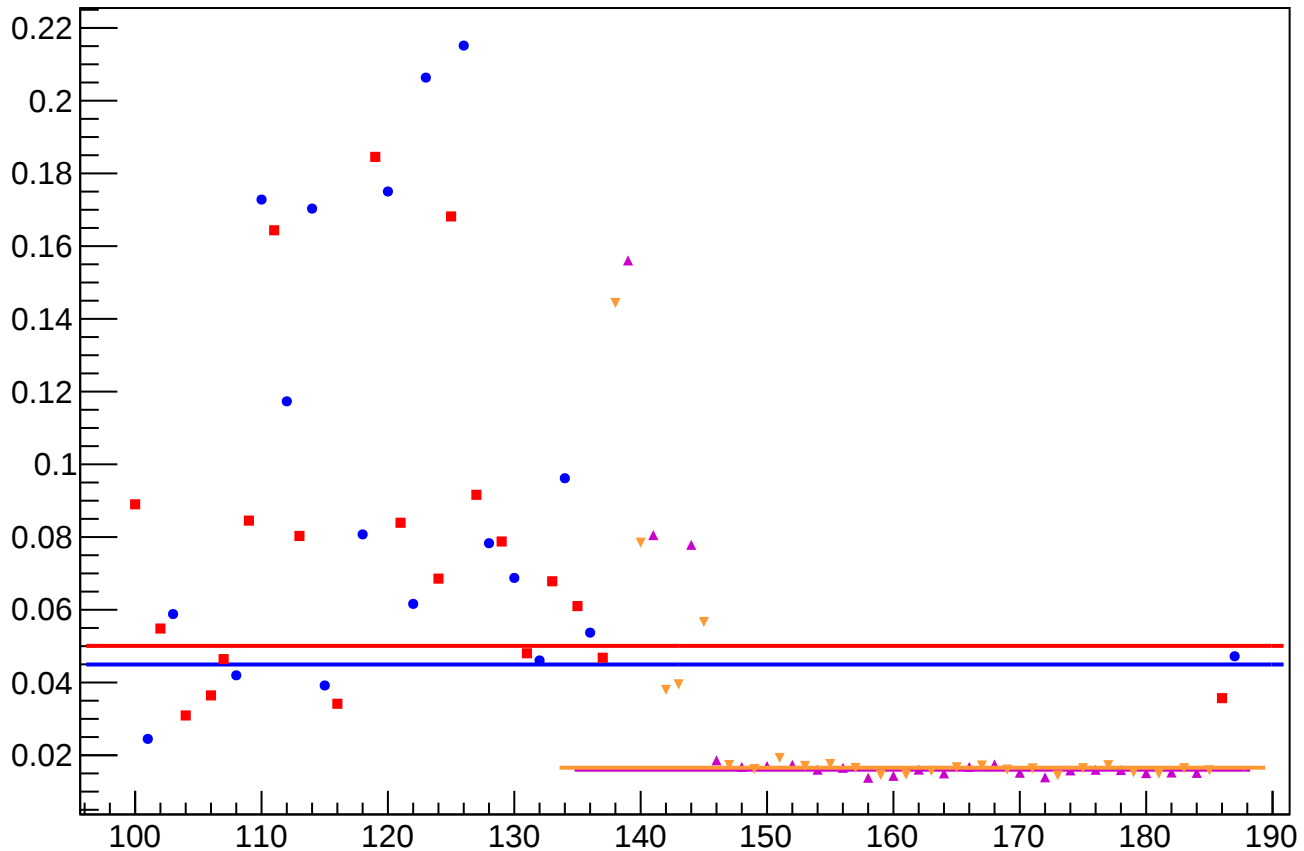
Out: 2.288 $\pm$ 0.000 χ^2/NDF : 70358735054.7/44

Left In: 2.280 $\pm$ 0.000

χ^2/NDF : 61444254541.3/22

All: 2.253 $\pm$ 0.000 χ^2/NDF : 138291209301.4

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2 /NDF: 2773557.7/17

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2623615.6/24

Right Out: 0.050 $\pm$ 0.000 χ^2 /NDF: 2304770.5/19

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2463853.3/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5102815.6/47

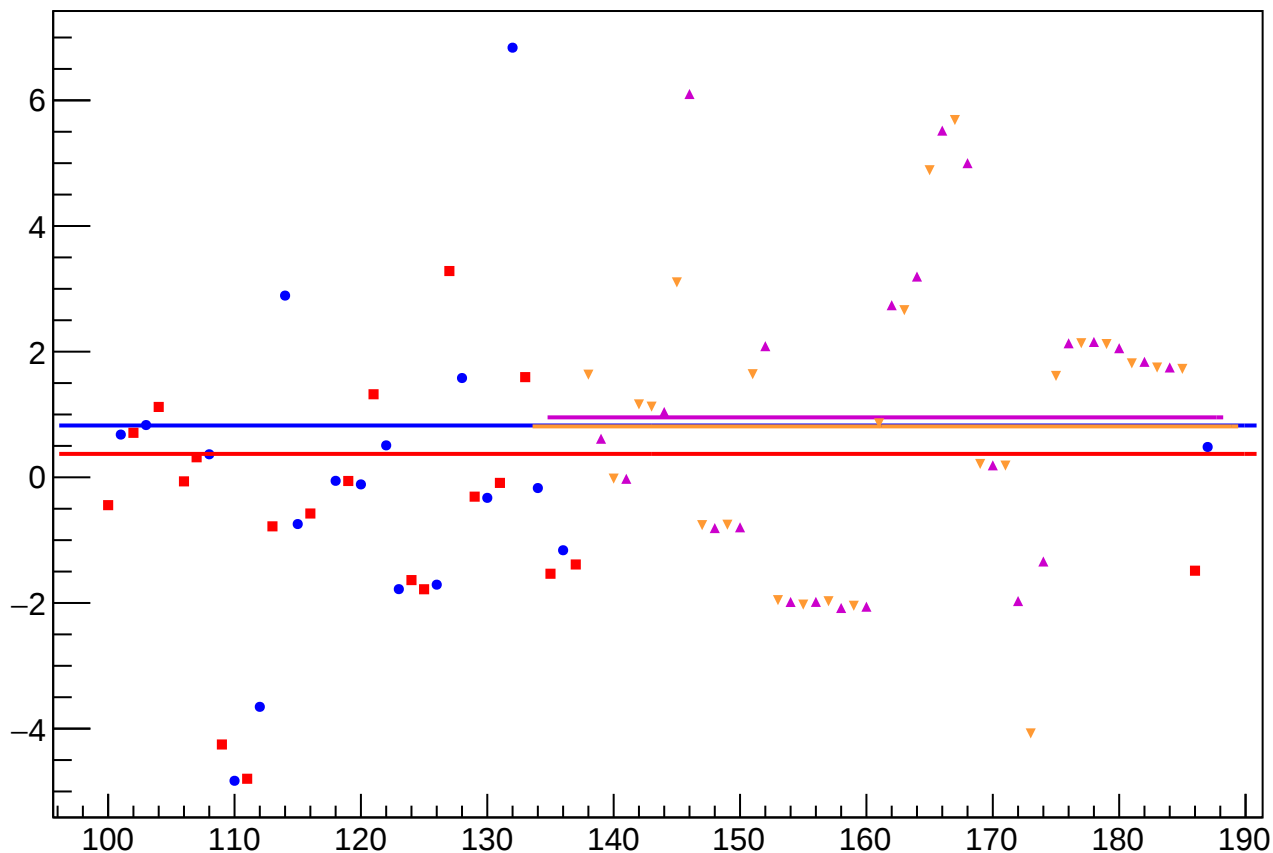
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 5124973.3/37

In: 0.017 $\pm$ 0.000 χ^2 /NDF:8164668.1/40

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:8716765.6/44

All: 0.017 $\pm$ 0.000 χ^2 /NDF: 16906287.6/85

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: 0.373+/-0.000

χ^2/NDF : 4967504159.4/19

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Right: 0.613+/-0.000

χ^2/NDF : 16293599876.3/37

In: 0.949+/-0.000

χ^2/NDF : 585802769644.7/40

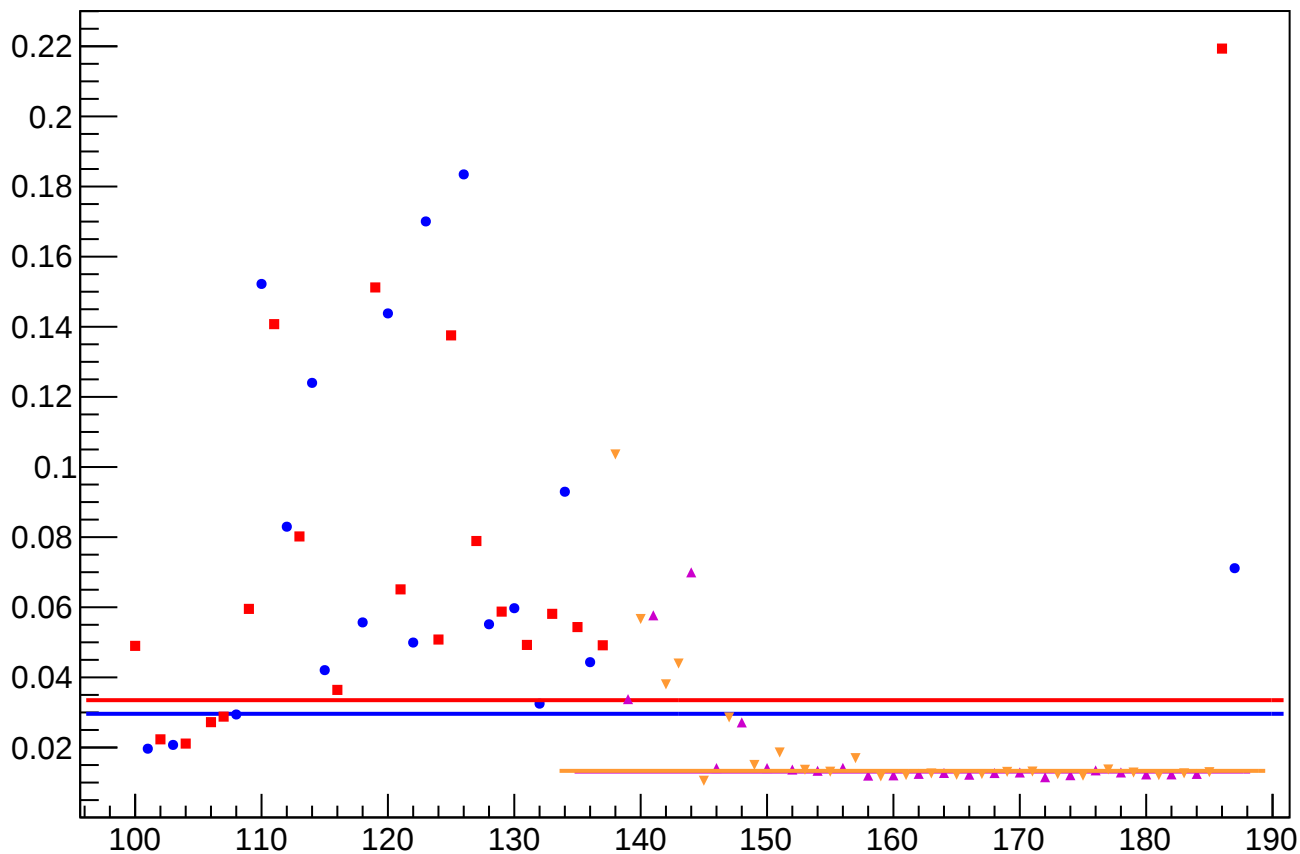
Out: 0.793+/-0.000

χ^2/NDF : 513194119494.3/44

All: 0.871+/-0.000

χ^2/NDF : 1100073974746.

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: 0.033+/-0.000 χ^2/NDF : 3584780.9/19

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

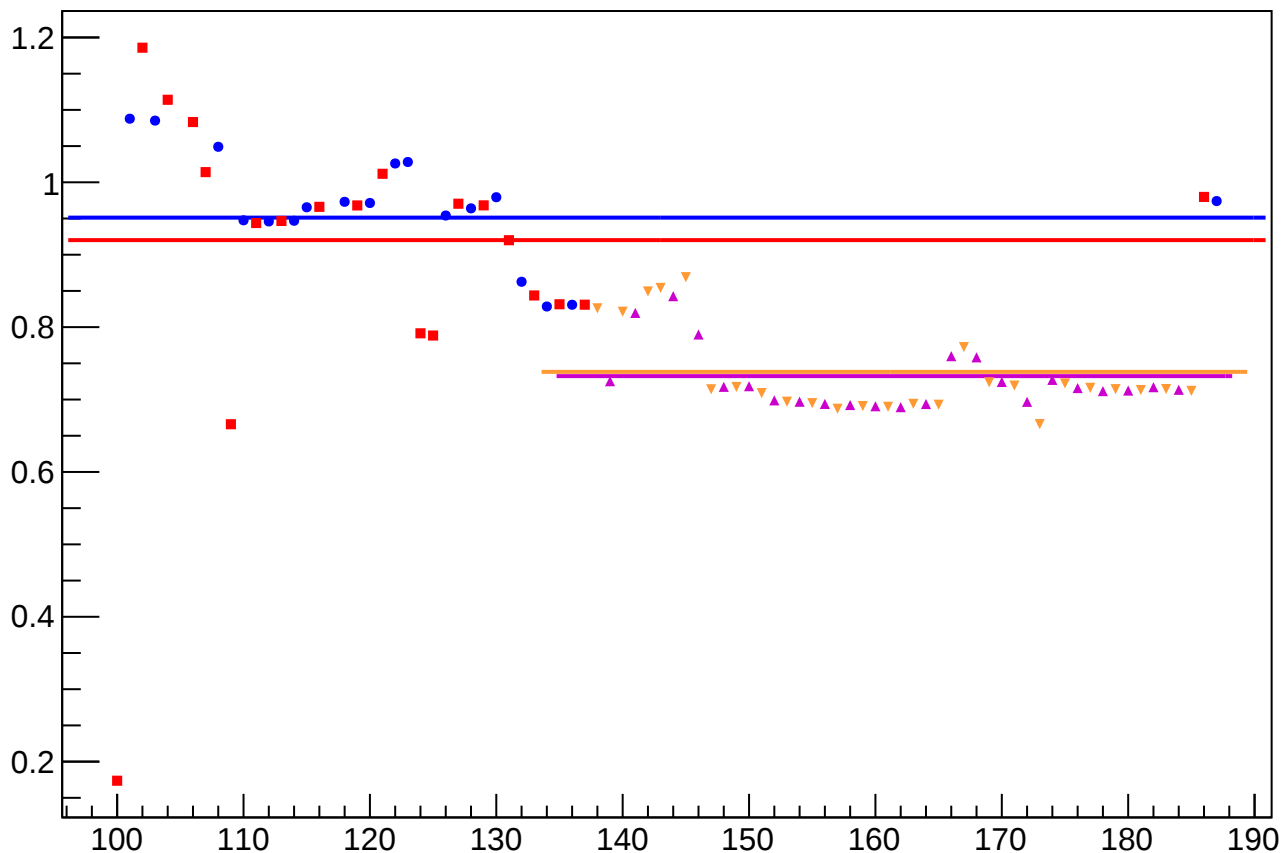
Right: 0.031+/-0.000 χ^2/NDF : 6703688.4/37

In: 0.014+/-0.000 χ^2/NDF : 7085663.5/40

Out: 0.014+/-0.000 χ^2/NDF : 9145331.3/44

All: 0.014+/-0.000 χ^2/NDF : 16237676.8/85

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: 0.920+/-0.000 χ^2/NDF : 376593548.3/19

Left In: 0.732+/-0.000 χ^2/NDF : 170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

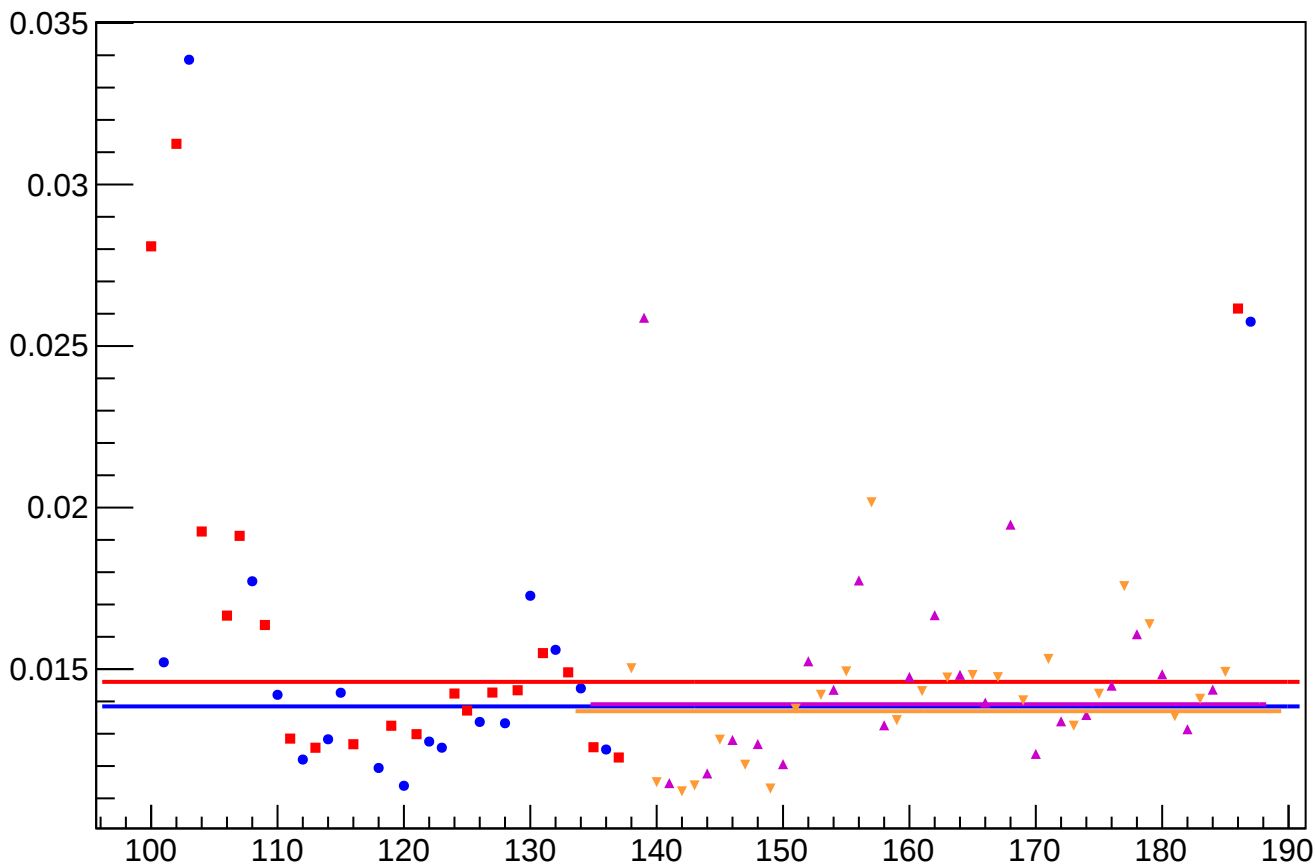
Right: 0.936+/-0.000 χ^2/NDF : 565499346.5/37

In: 0.793+/-0.000 χ^2/NDF : 1404549984.9/40

Out: 0.785+/-0.000 χ^2/NDF : 1419980650.3/44

All: 0.789+/-0.000 χ^2/NDF : 2827927372.0/85

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 600189.8/17

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 650045.7/19

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

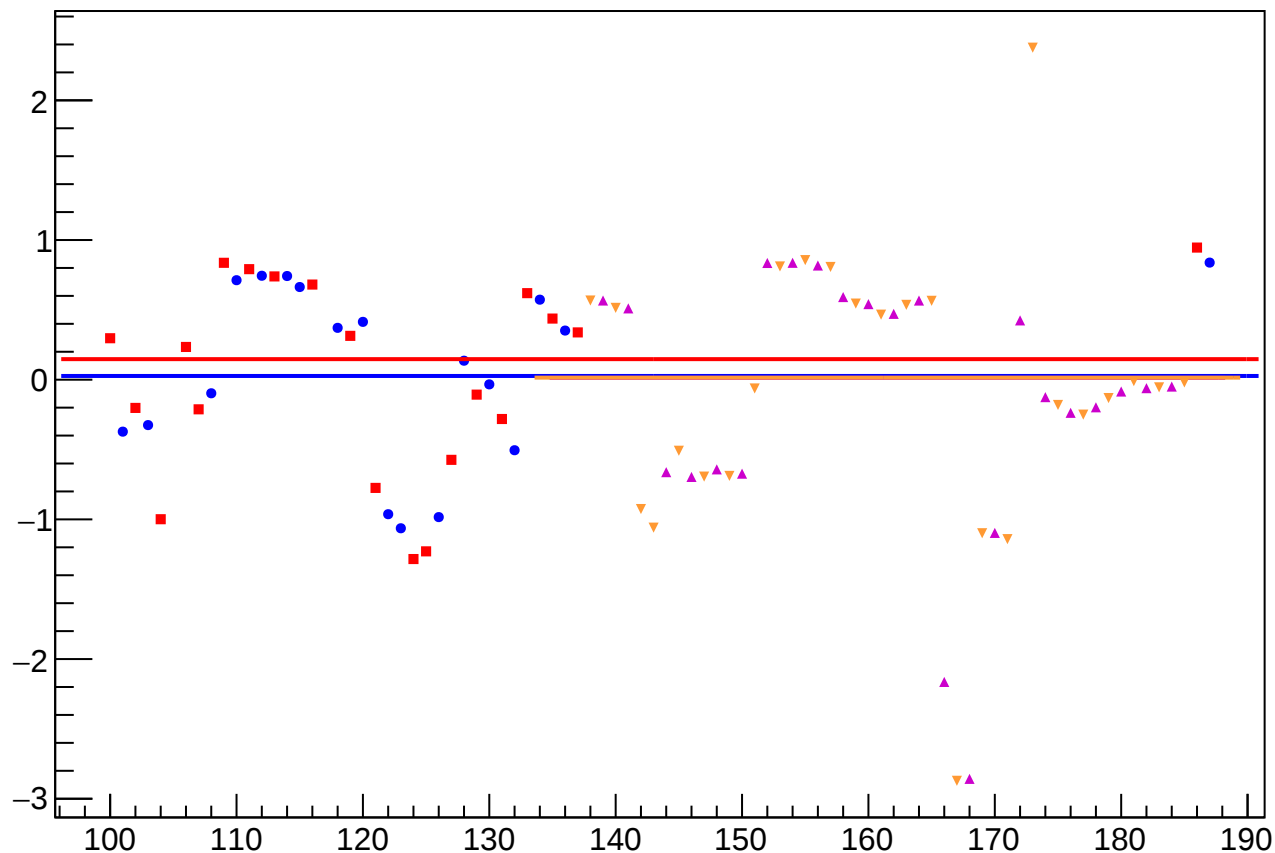
Right: 0.014+/-0.000 χ^2/NDF : 1267614.1/37

In: 0.014+/-0.000 χ^2/NDF : 1394946.3/40

Out: 0.014+/-0.000 χ^2/NDF : 1217353.1/44

All: 0.014+/-0.000 χ^2/NDF : 2612445.6/85

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: 0.147 $\pm$ 0.000 χ^2 /NDF: 12781367391.0/19

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

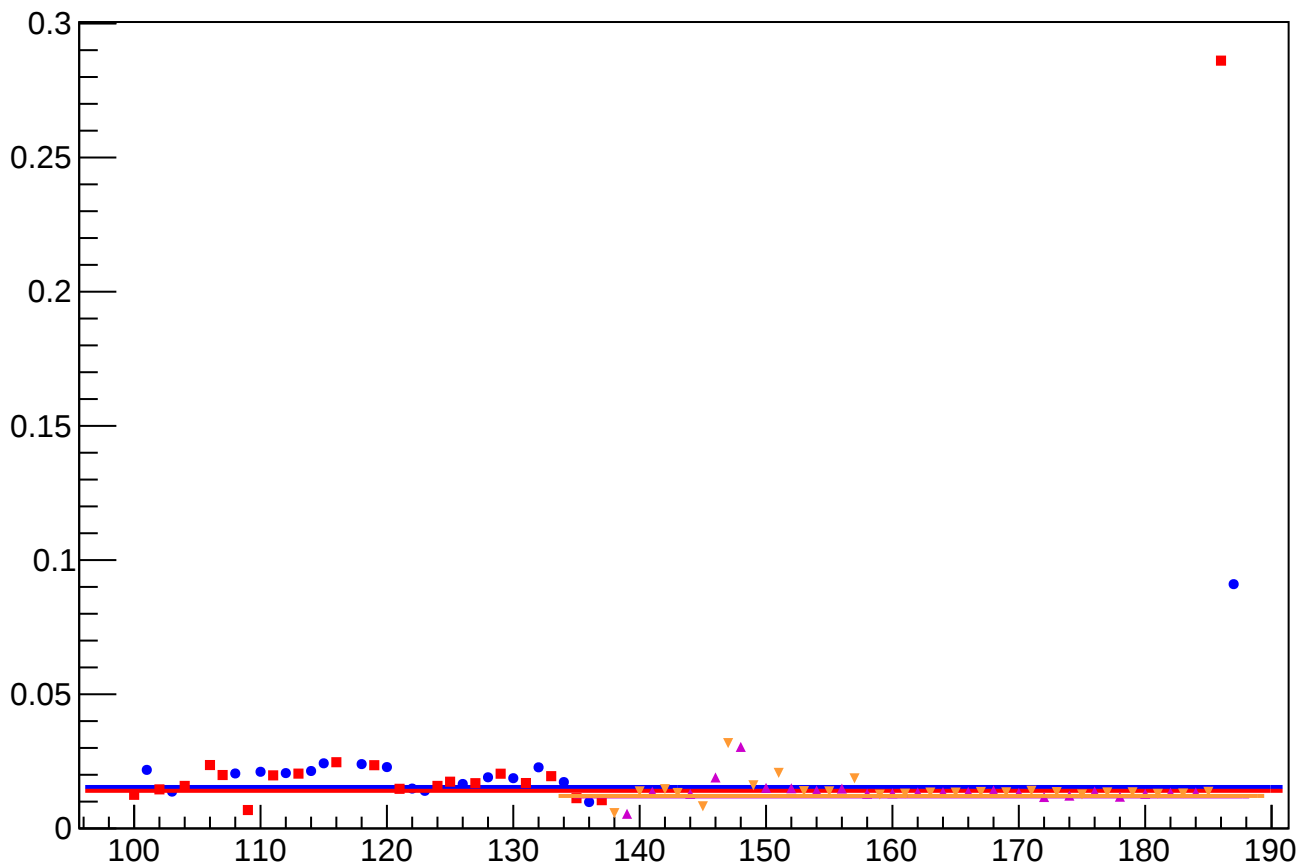
Right: 0.093 $\pm$ 0.000 χ^2 /NDF: 19286719685.1/37

In: 0.015 $\pm$ 0.000 χ^2 /NDF: 85767602345.6/40

Out: 0.042 $\pm$ 0.000 χ^2 /NDF: 109266292896.8/44

All: 0.029 $\pm$ 0.000 χ^2 /NDF: 195081336090.5

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 : 2192859.6/19

Left In: 0.012+/-0.000 χ^2/NDF : 3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

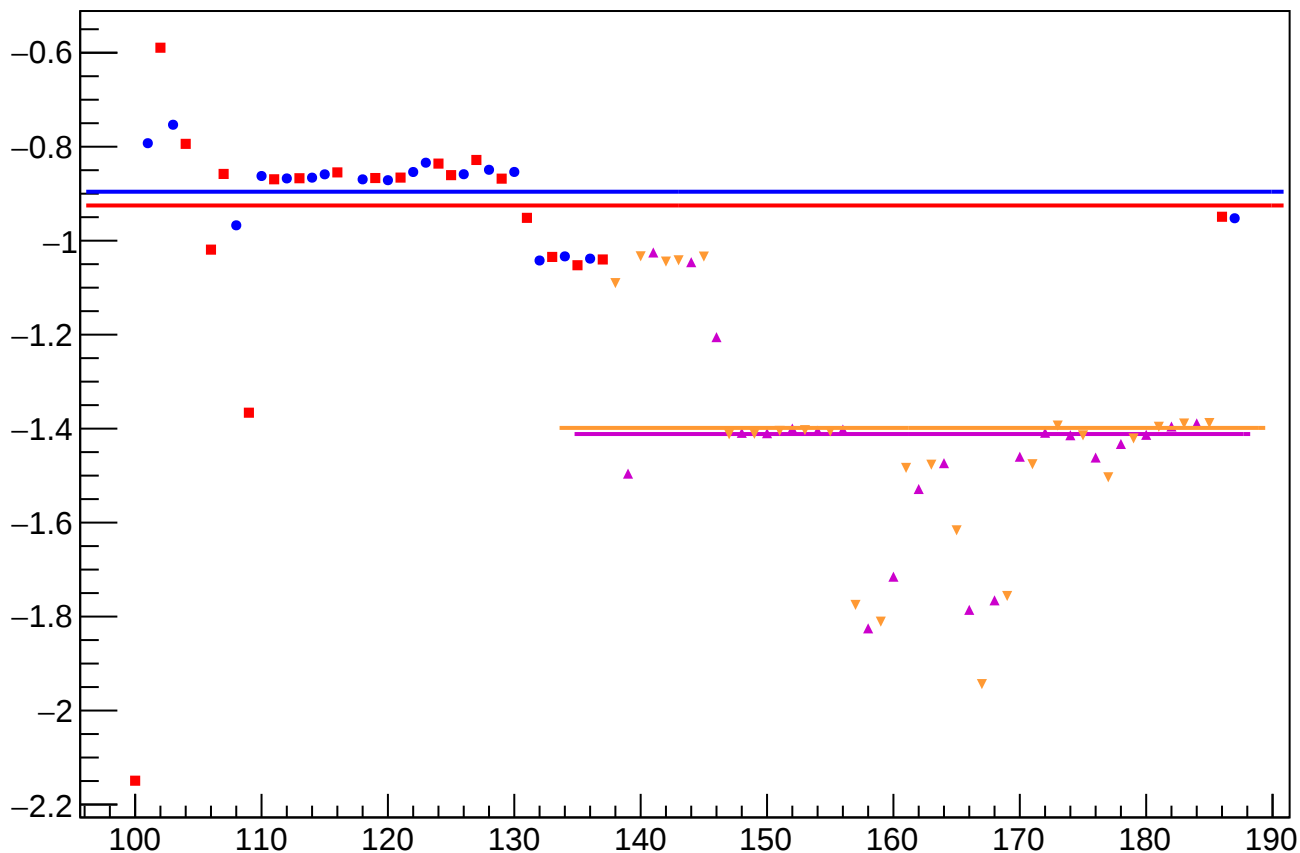
Right: 0.015+/-0.000 χ^2/NDF : 3579390.3/37

In: 0.013+/-0.000 χ^2/NDF : 4919941.6/40

Out: 0.013+/-0.000 χ^2/NDF : 5465835.4/44

All: 0.013+/-0.000 χ^2/NDF : 10386197.2/85

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.896+/-0.000 χ^2/NDF : 38078075.9/17

Left Out: -1.398+/-0.000 χ^2/NDF : 734579404.3/24

Right Out: -0.925+/-0.000 χ^2/NDF : 128504949.6/19

Left In: -1.412+/-0.000 χ^2/NDF : 512629872.4/22

Left: -1.405+/-0.000 χ^2/NDF : 1248268857.1/47

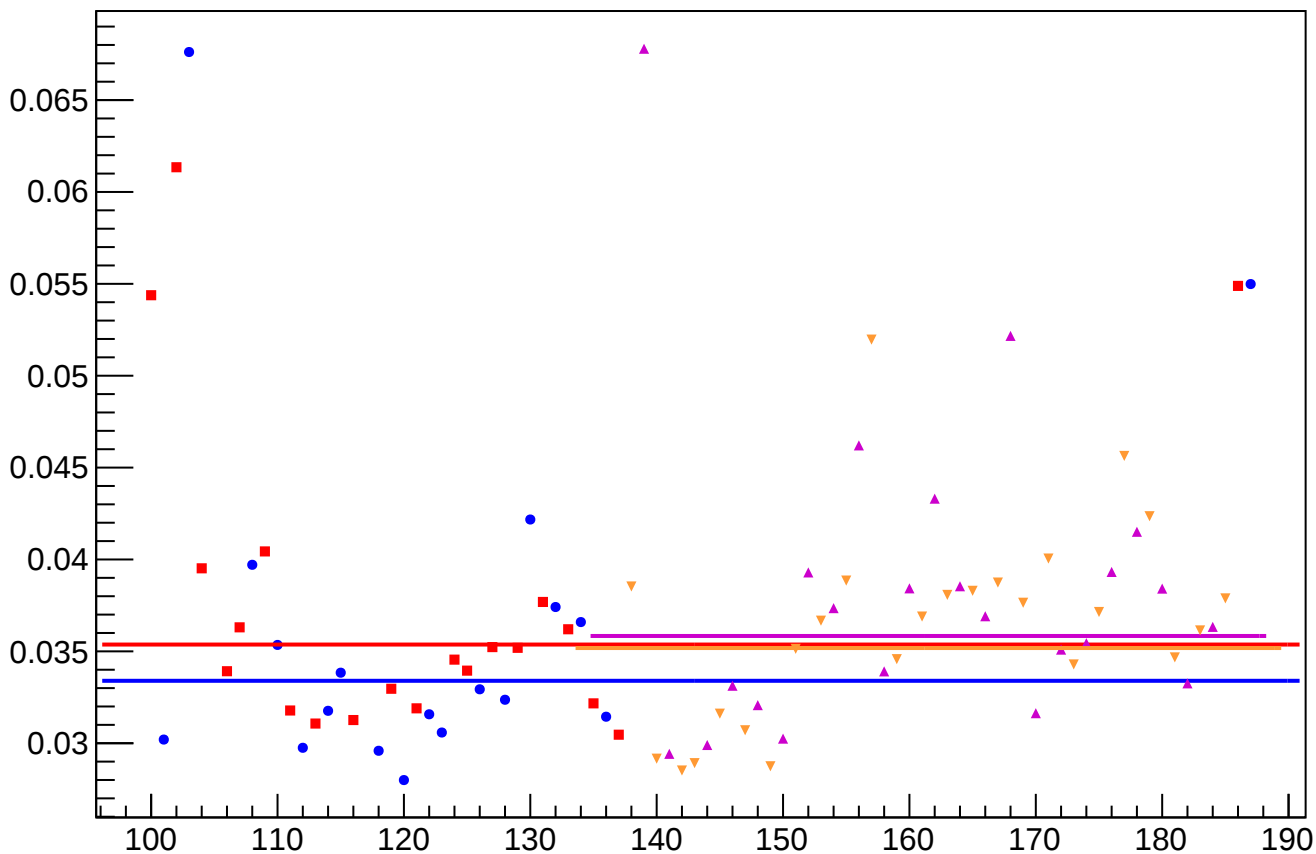
Right: -0.910+/-0.000 χ^2/NDF : 168823848.6/37

In: -1.253+/-0.000 χ^2/NDF : 1528301138.0/40

Out: -1.264+/-0.000 χ^2/NDF : 1689731221.1/44

All: -1.259+/-0.000 χ^2/NDF : 3219054255.5/8

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033 $\pm$ 0.000 χ^2/NDF : 444350.4/17

Left Out: 0.035 $\pm$ 0.000 χ^2/NDF : 597886.0/24

Right Out: 0.035 $\pm$ 0.000 χ^2/NDF : 370300.0/19

Left In: 0.036 $\pm$ 0.000 χ^2/NDF : 890993.5/22

Left: 0.035 $\pm$ 0.000 χ^2/NDF : 1494255.9/47

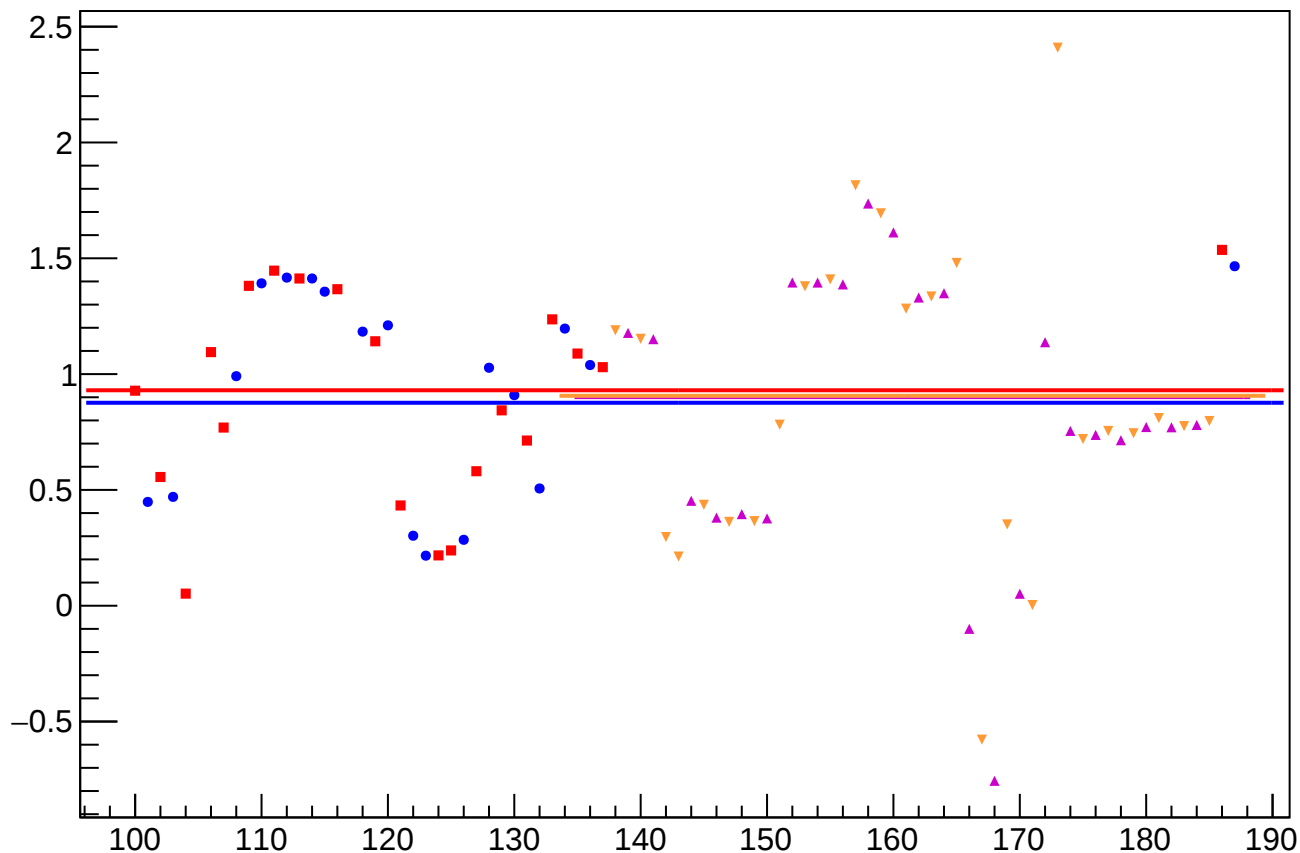
Right: 0.034 $\pm$ 0.000 χ^2/NDF : 834989.0/37

In: 0.035 $\pm$ 0.000 χ^2/NDF : 1379089.9/40

Out: 0.035 $\pm$ 0.000 χ^2/NDF : 968452.5/44

All: 0.035 $\pm$ 0.000 χ^2/NDF : 2347918.1/85

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.876 $\pm$ 0.000 χ^2 /NDF: 6472564507.3/17

Left Out: 0.906 $\pm$ 0.000 χ^2 /NDF: 84108410196.2/24

Right Out: 0.930 $\pm$ 0.000 χ^2 /NDF: 9959863570.1/19

Left In: 0.901 $\pm$ 0.000 χ^2 /NDF: 66932223067.8/22

Left: 0.904 $\pm$ 0.000 χ^2 /NDF: 151044220035.9/47

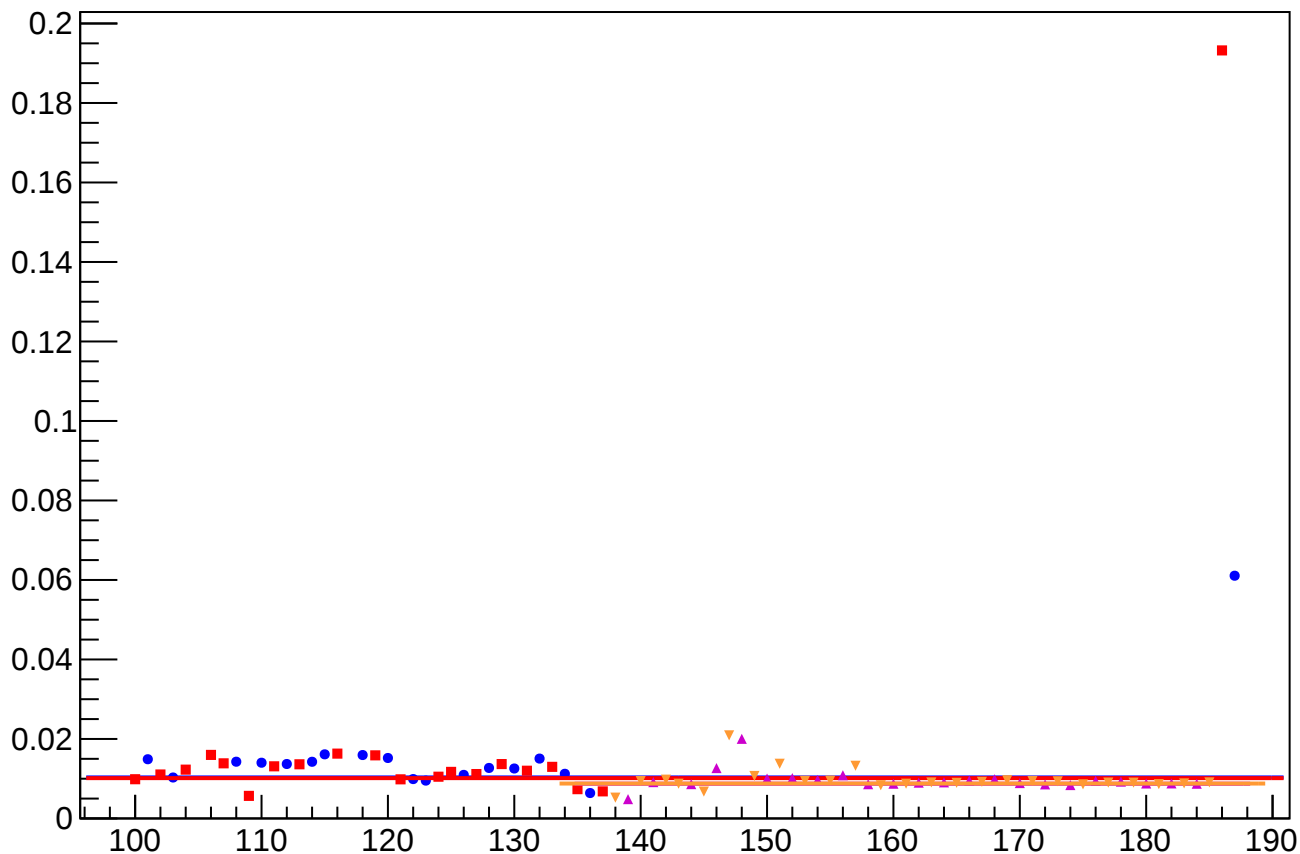
Right: 0.904 $\pm$ 0.000 χ^2 /NDF: 16511803227.4/37

In: 0.896 $\pm$ 0.000 χ^2 /NDF: 73429577636.2/40

Out: 0.911 $\pm$ 0.000 χ^2 /NDF: 94093873496.8/44

All: 0.904 $\pm$ 0.000 χ^2 /NDF: 167556075717.7

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 : 1804312.3/19

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

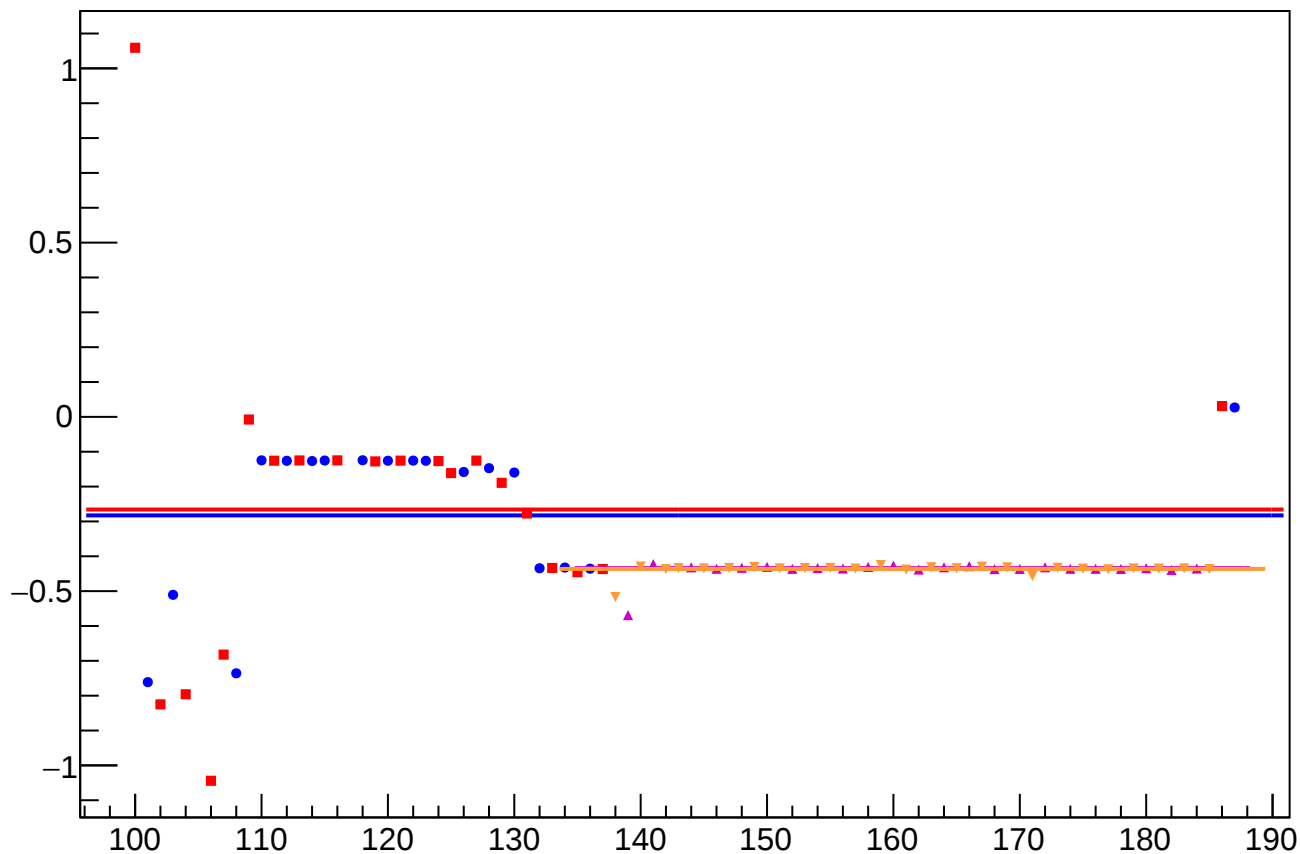
Right: 0.010+/-0.000 χ^2/NDF : 3205786.5/37

In: 0.009+/-0.000 χ^2/NDF : 3279471.9/40

Out: 0.009+/-0.000 χ^2/NDF : 3669693.8/44

All: 0.009+/-0.000 χ^2/NDF : 6949193.0/85

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.283 ± 0.000 χ^2/NDF : 901745820.7/17

Left Out: -0.436 ± 0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.266 ± 0.000 χ^2/NDF : 983134292.6/19

Left In: -0.434 ± 0.000 χ^2/NDF : 20164730.3/22

Left: -0.435 ± 0.000 χ^2/NDF : 49321098.5/47

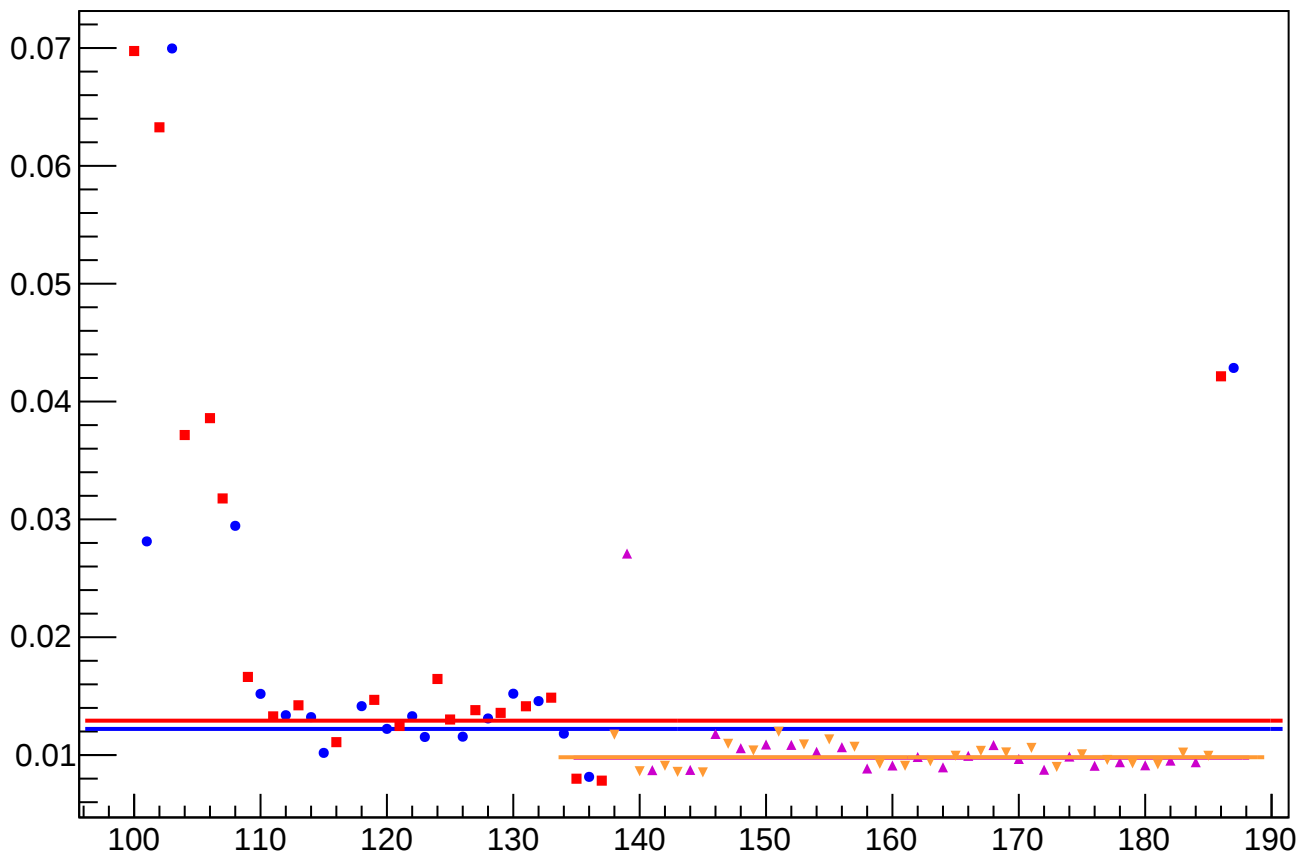
Right: -0.274 ± 0.000 χ^2/NDF : 1889250712.1/37

In: -0.408 ± 0.000 χ^2/NDF : 1521648147.2/40

Out: -0.410 ± 0.000 χ^2/NDF : 1745961748.7/44

All: -0.409 ± 0.000 χ^2/NDF : 3267833549.9/8

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: 2307366.4/19

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

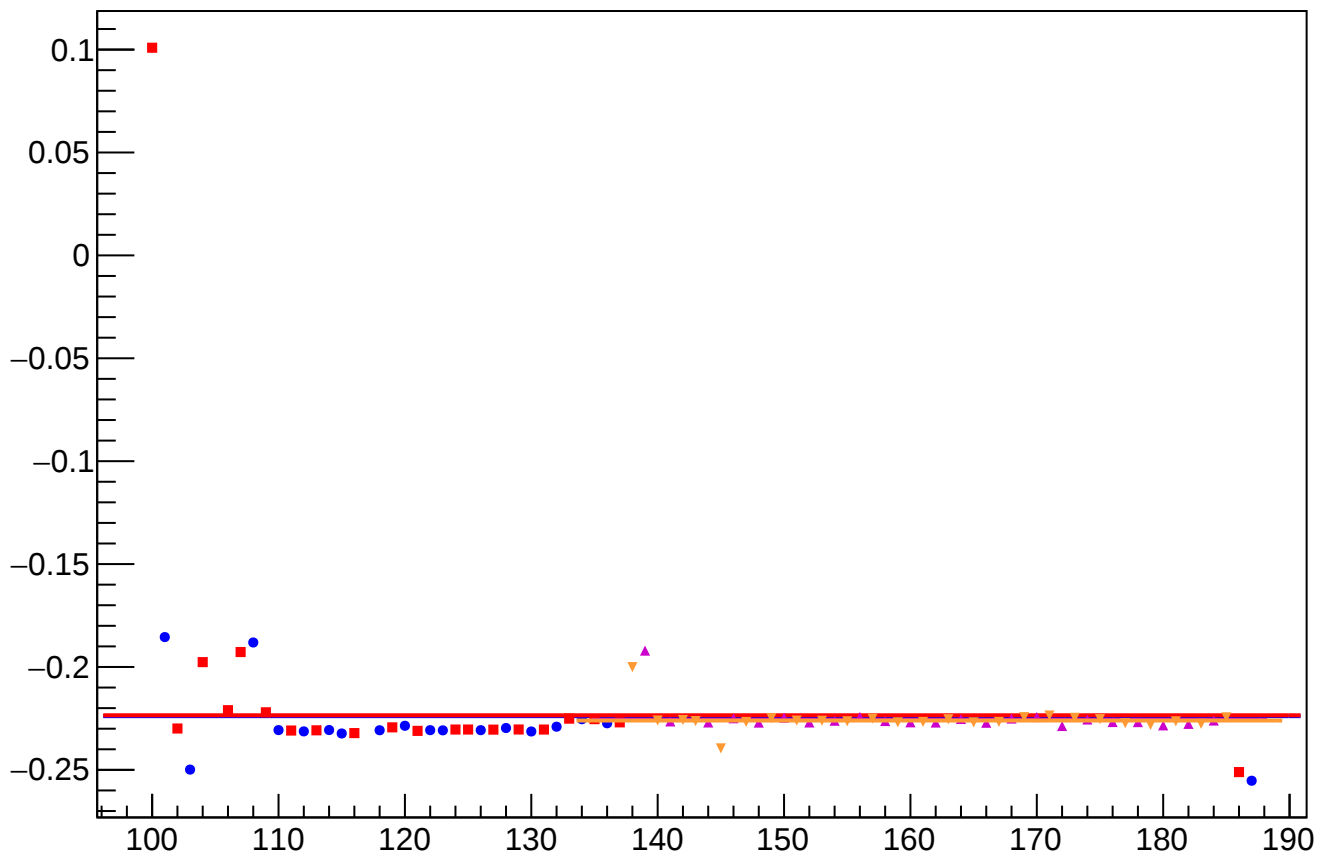
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 4191558.9/37

In: 0.010 $\pm$ 0.000 χ^2 /NDF: 2968807.3/40

Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 3065746.8/44

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 6036749.3/85

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: -0.223+/-0.000 χ^2/NDF : 168015339.3/19

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

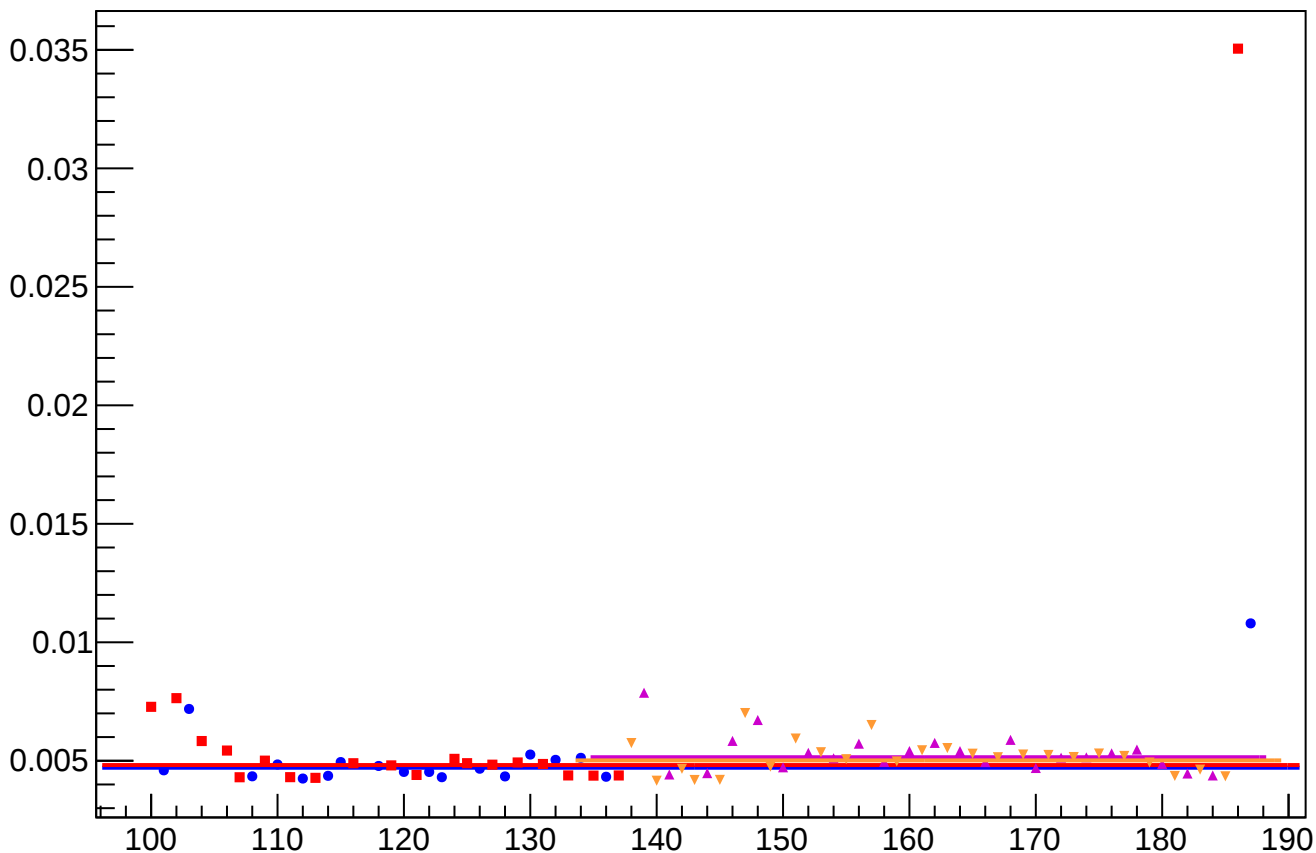
Right: -0.224+/-0.000 χ^2/NDF : 243420736.9/37

In: -0.225+/-0.000 χ^2/NDF : 89738579.7/40

Out: -0.225+/-0.000 χ^2/NDF : 190506839.7/44

All: -0.225+/-0.000 χ^2/NDF : 280251565.2/85

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 : 778310.4/19

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

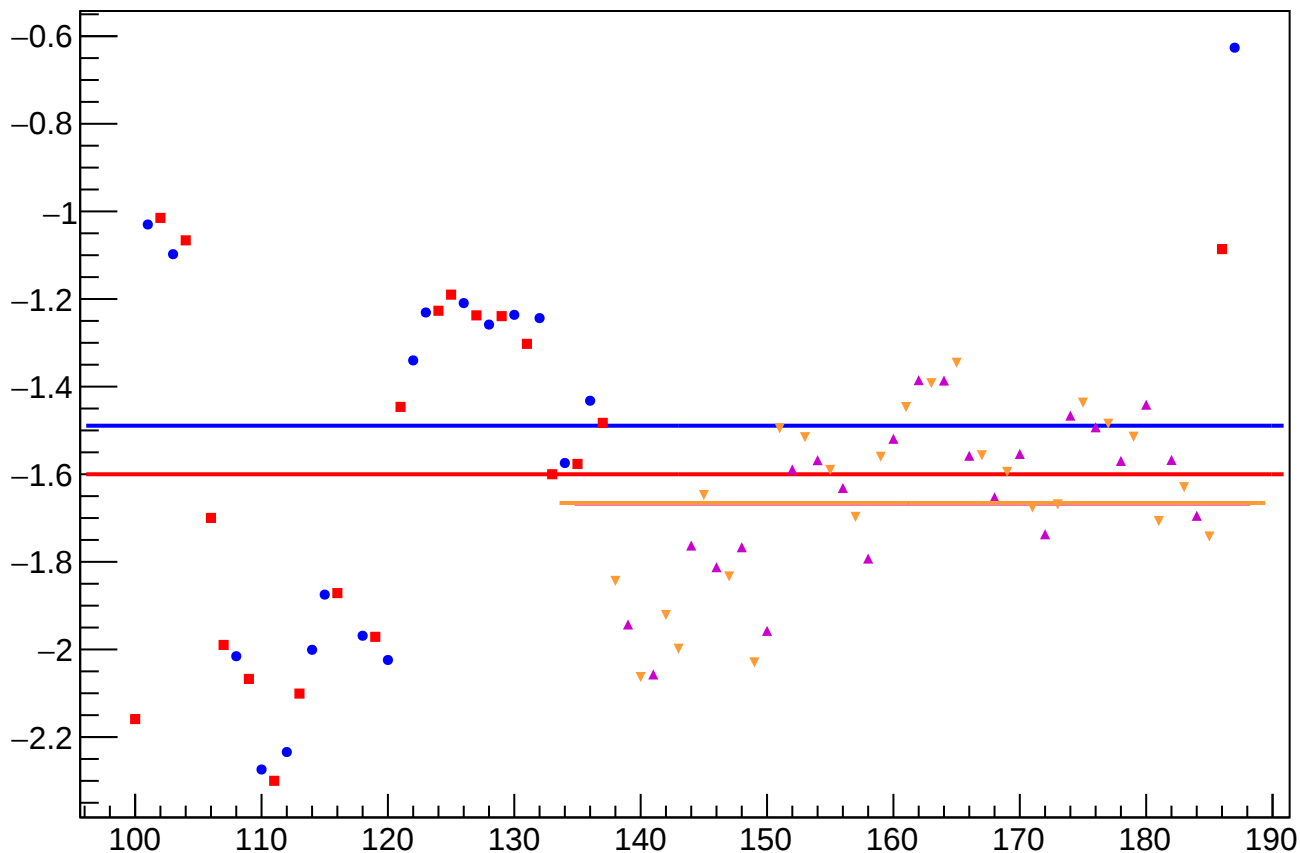
Right: 0.005+/-0.000 χ^2/NDF : 1050733.8/37

In: 0.005+/-0.000 χ^2/NDF : 847283.8/40

Out: 0.005+/-0.000 χ^2/NDF : 1326220.6/44

All: 0.005+/-0.000 χ^2/NDF : 2176256.0/85

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: -1.600+/-0.000 χ^2/NDF : 28520801432.4/19

Left In: -1.667+/-0.000 χ^2/NDF : 14615453869.3/22

Left: -1.666+/-0.000 χ^2/NDF : 32983827631.4/47

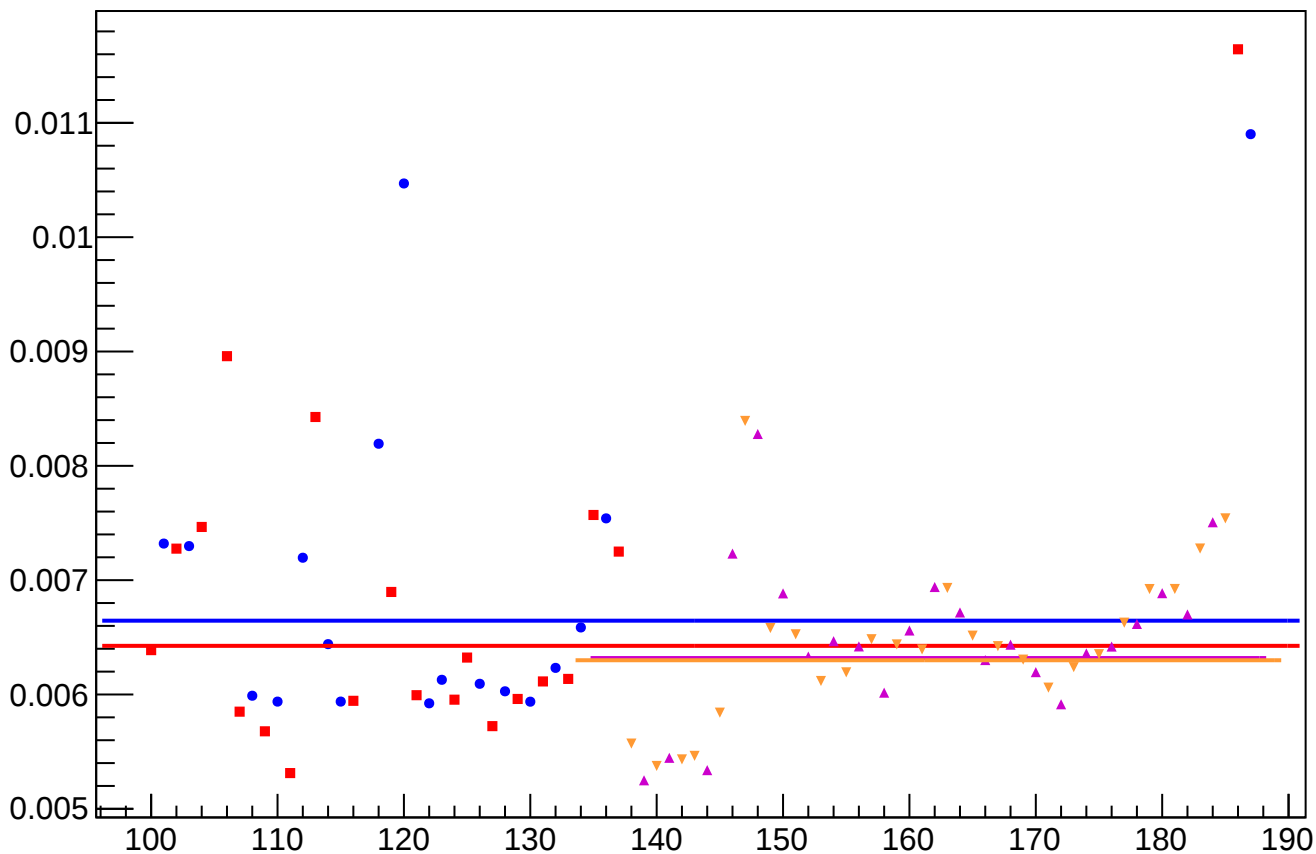
Right: -1.549+/-0.000 χ^2/NDF : 52735195128.3/37

In: -1.622+/-0.000 χ^2/NDF : 41189375985.1/40

Out: -1.648+/-0.000 χ^2/NDF : 47407149253.3/44

All: -1.636+/-0.000 χ^2/NDF : 88786282916.1/100

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: 0.006 $\pm$ 0.000 χ^2/NDF : 368091.1/19

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

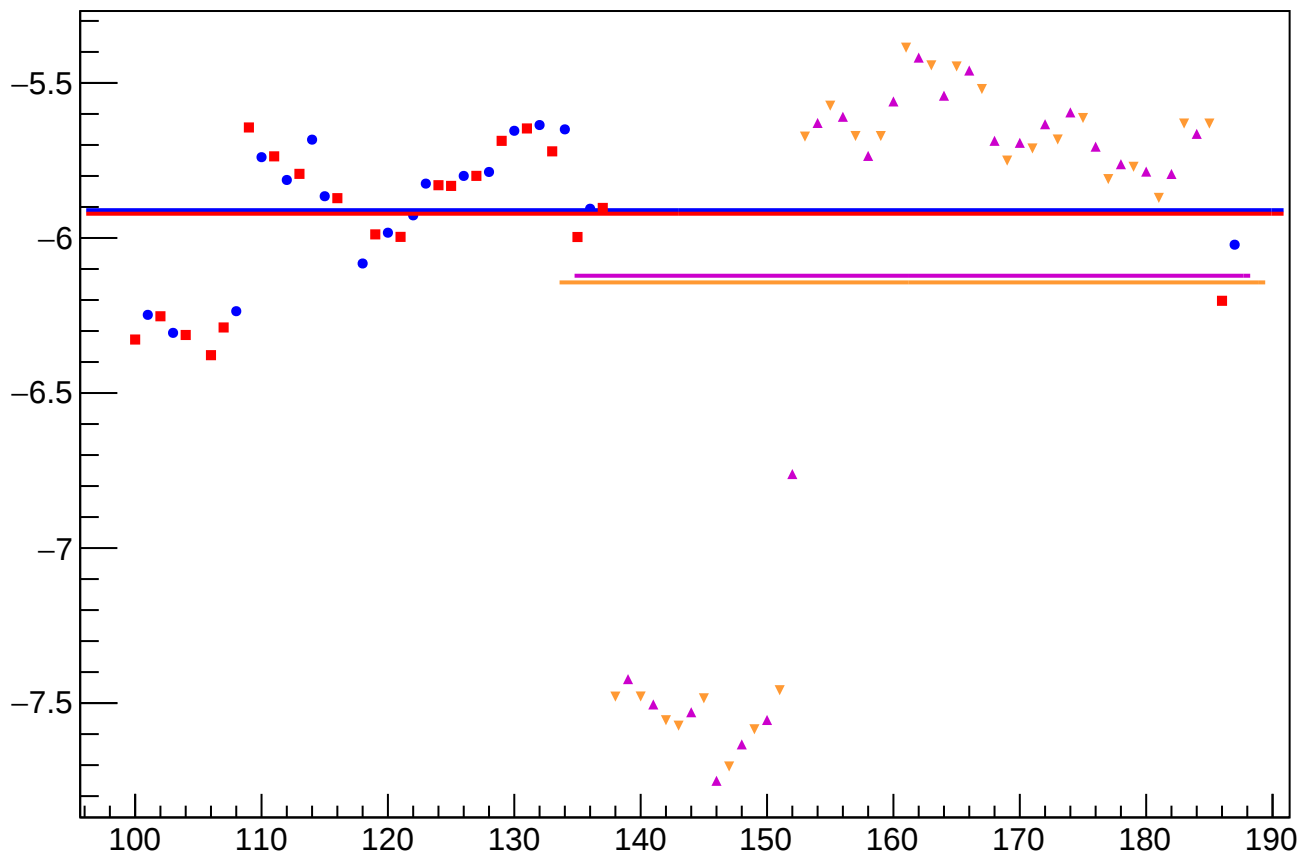
Right: 0.007 $\pm$ 0.000 χ^2/NDF : 615623.2/37

In: 0.006 $\pm$ 0.000 χ^2/NDF : 596785.2/40

Out: 0.006 $\pm$ 0.000 χ^2/NDF : 684729.0/44

All: 0.006 $\pm$ 0.000 χ^2/NDF : 1284130.1/85

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: -5.922+/-0.000 χ^2/NDF : 12960017392.1/19

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

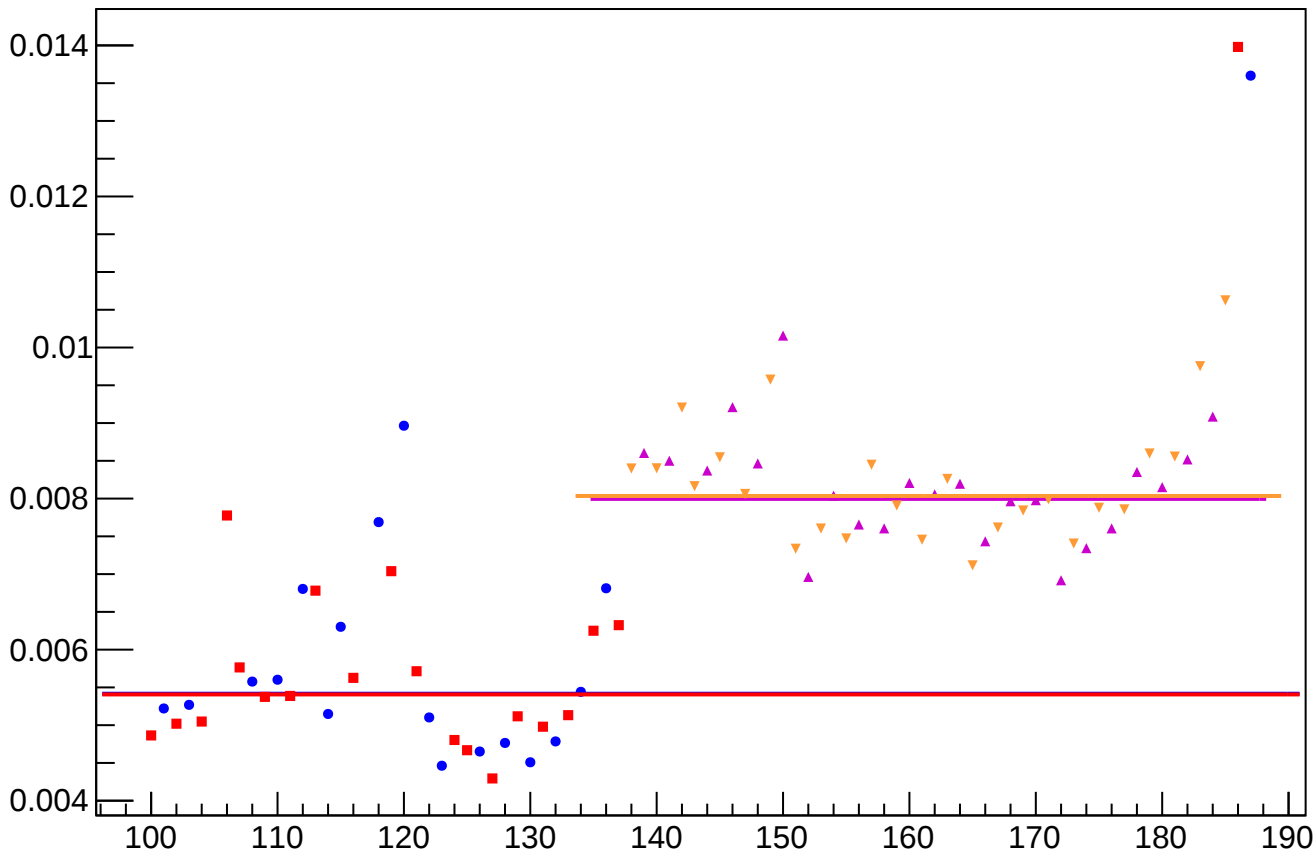
Right: -5.916+/-0.000 χ^2/NDF : 24088118694.4/37

In: -6.027+/-0.000 χ^2/NDF : 176009307101.9/40

Out: -6.040+/-0.000 χ^2/NDF : 204571831295.2/44

All: -6.034+/-0.000 χ^2/NDF : 380620807987.4

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: 0.005+/-0.000 χ^2/NDF : 513654.8/19

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

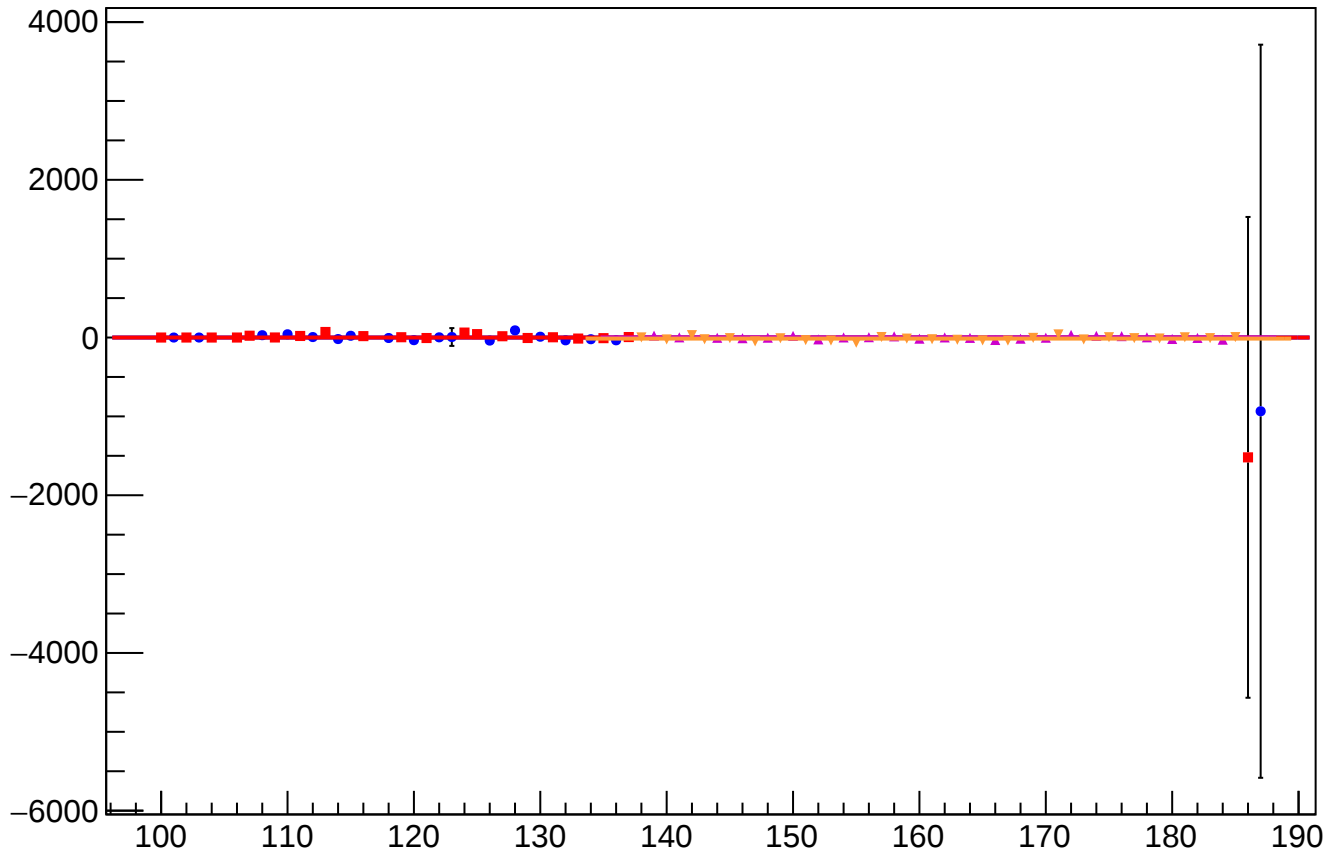
Right: 0.005+/-0.000 χ^2/NDF : 958042.2/37

In: 0.007+/-0.000 χ^2/NDF :2148991.7/40

Out: 0.007+/-0.000 χ^2/NDF :2377335.9/44

All: 0.007+/-0.000 χ^2/NDF : 4526739.5/85

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: 15.2/19

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

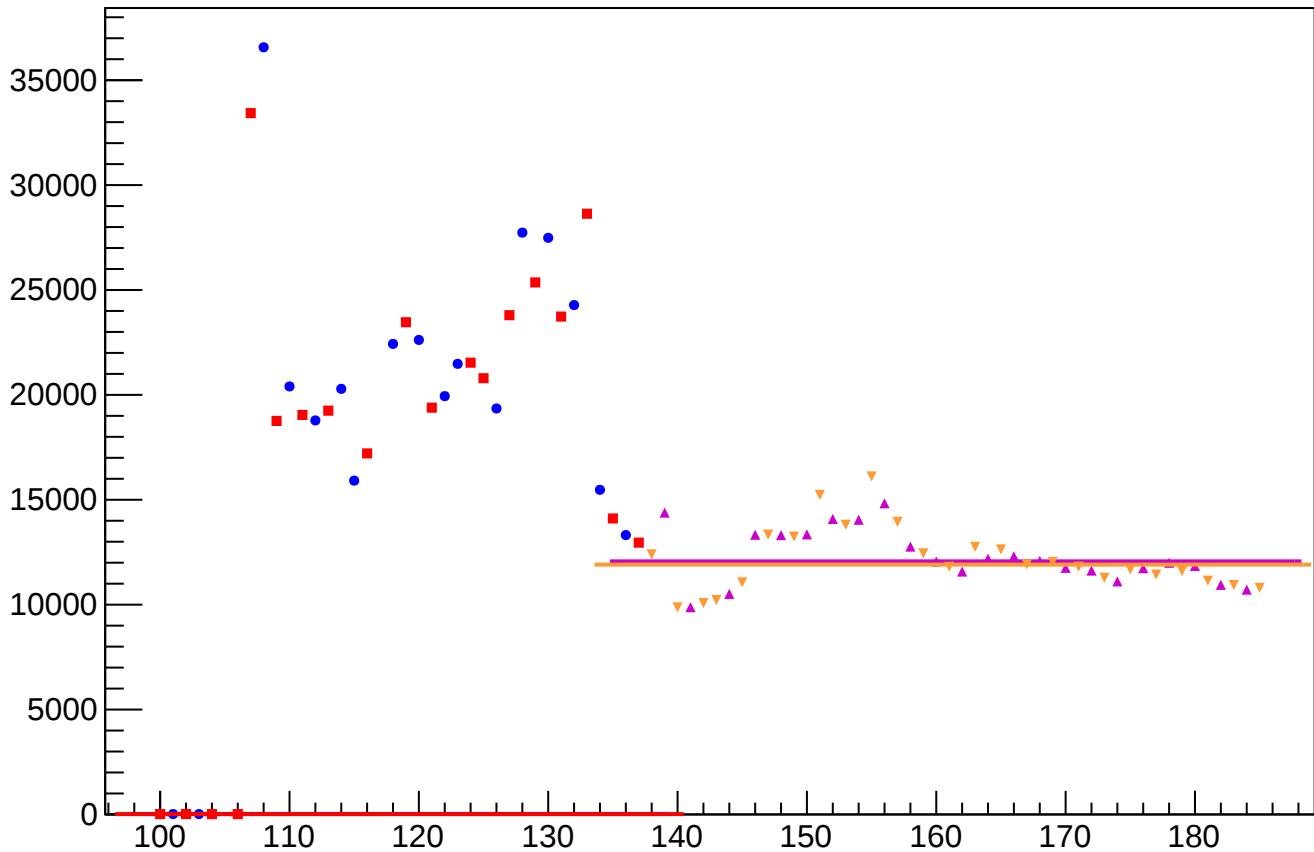
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 32.0/37

In: 0.013 $\pm$ 0.017 χ^2 /NDF: 45.0/40

Out: -0.004 $\pm$ 0.016 χ^2 /NDF: 96.9/44

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 142.4/85

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

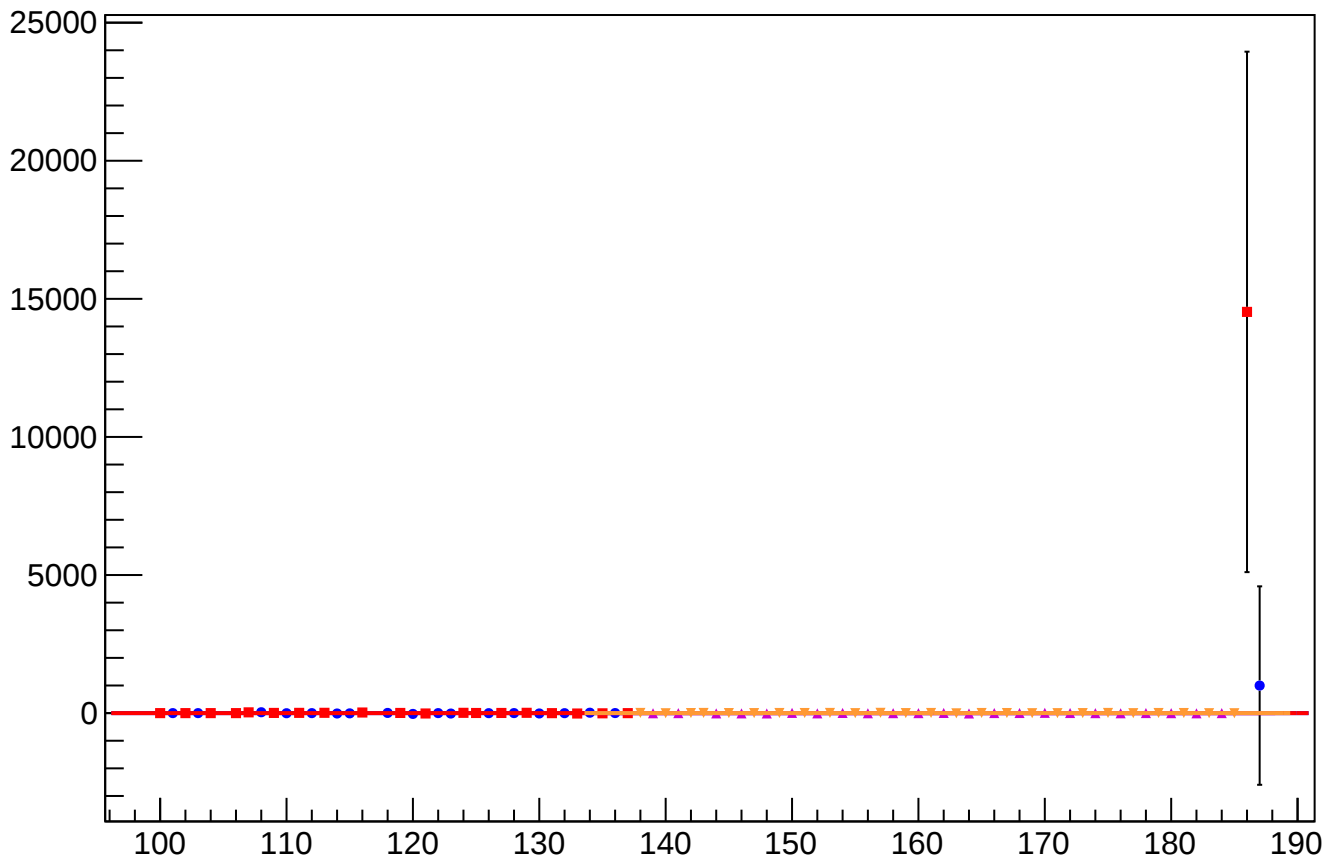
Right: 18.463+/-0.008 χ^2/NDF : 21855713.8/35

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 : 21.0/19

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

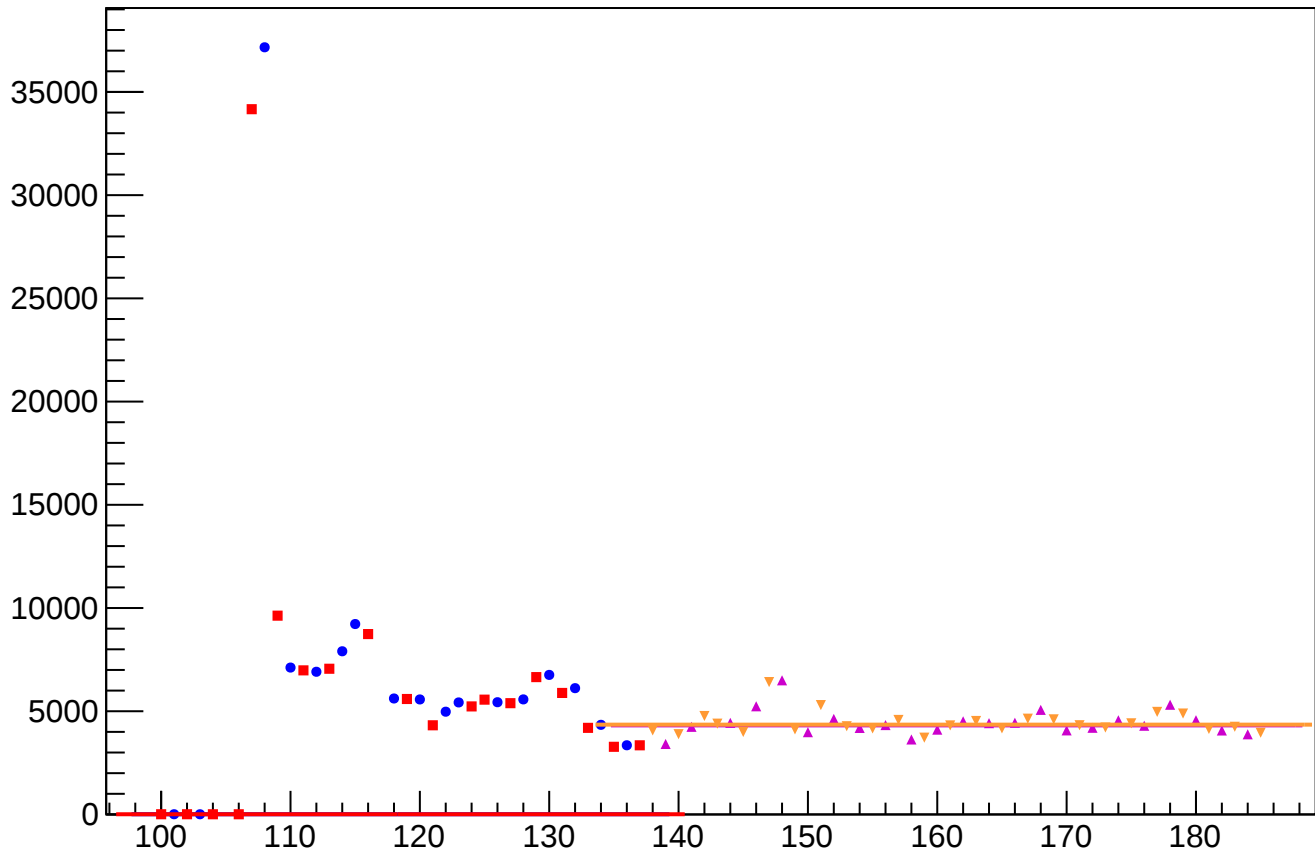
Right: -0.007 $\pm$ 0.006 χ^2/NDF : 37.1/37

In: 0.001 $\pm$ 0.009 χ^2/NDF : 51.0/40

Out: -0.014 $\pm$ 0.009 χ^2/NDF : 41.6/44

All: -0.007 $\pm$ 0.006 χ^2/NDF : 94.0/85

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.938 $\pm$ 0.007 χ^2 /NDF: 10926318.4/16

Left Out: 4350.545 $\pm$ 0.722 χ^2 /NDF:384749.0/24

Right Out: 9.854 $\pm$ 0.006 χ^2 /NDF: 11106435.3/18

Left In: 4314.568 $\pm$ 0.738 χ^2 /NDF:534594.3/22

Left: 4332.940 $\pm$ 0.516 χ^2 /NDF: 920558.3/47

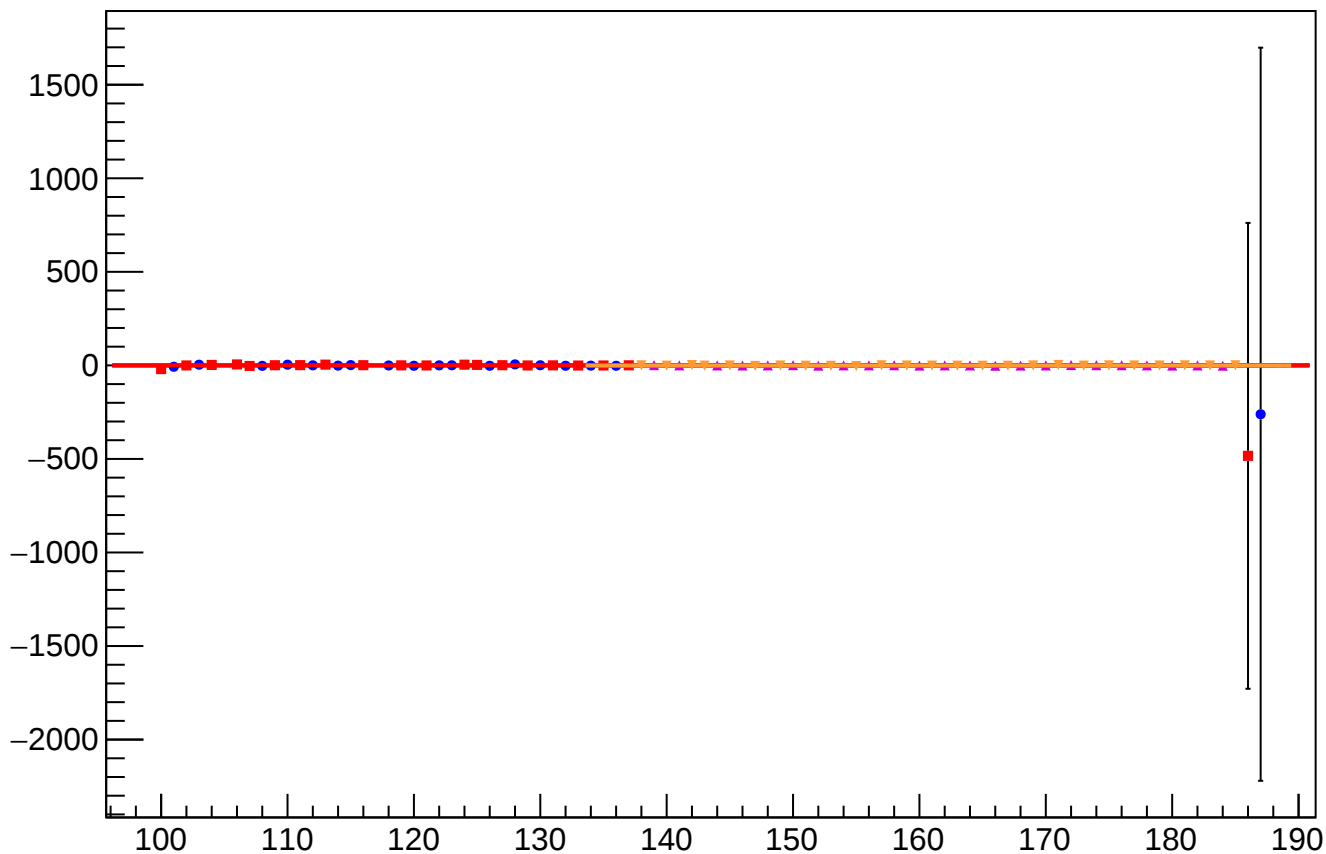
Right: 9.893 $\pm$ 0.004 χ^2 /NDF: 22032841.6/35

In: 10.273 $\pm$ 0.007 χ^2 /NDF:45522351.0/39

Out: 10.165 $\pm$ 0.006 χ^2 /NDF:47636168.3/43

All: 10.216 $\pm$ 0.004 χ^2 /NDF: 93158663.3/83

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 $\chi^2/\text{NDF}: 11.9/19$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

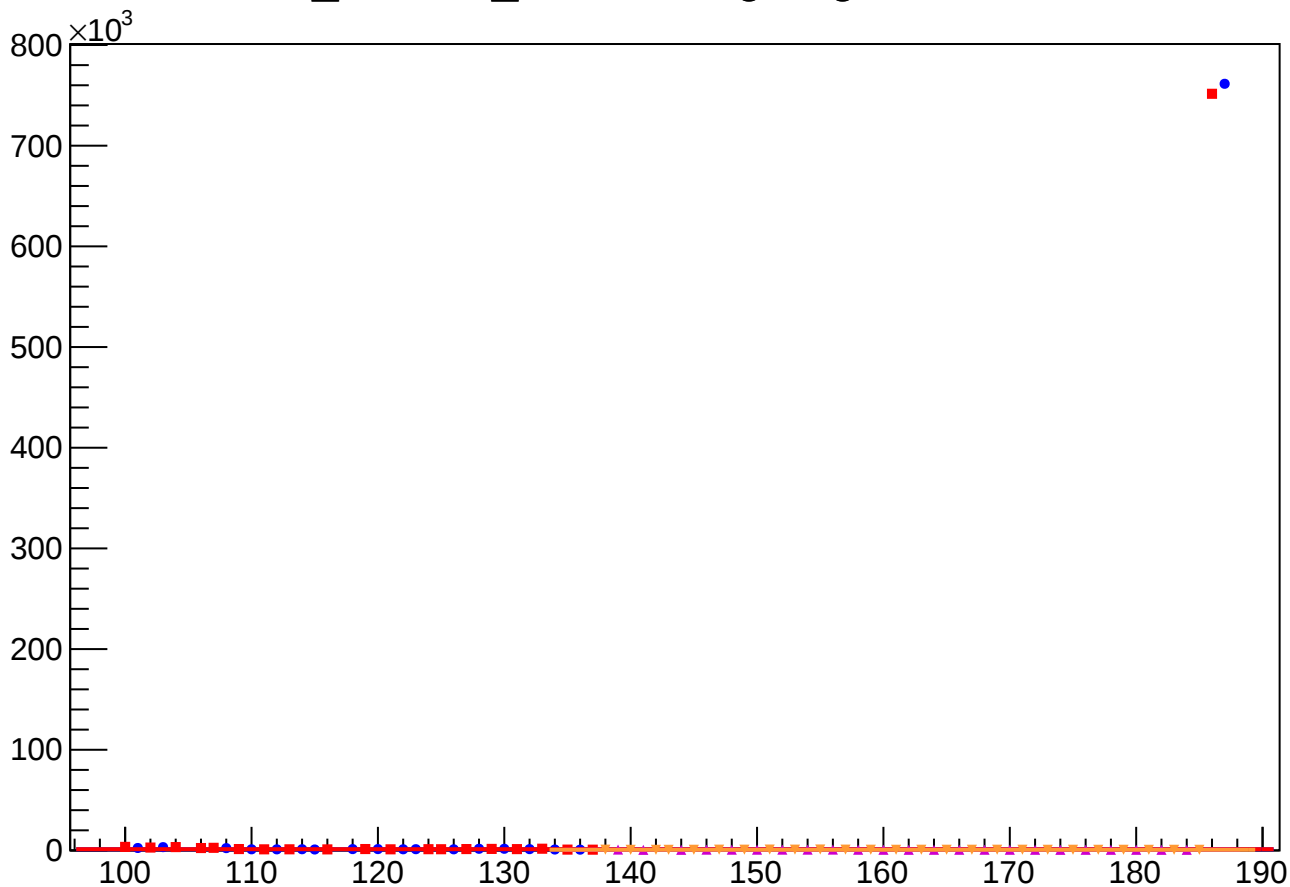
Right: 0.004 ± 0.349 $\chi^2/\text{NDF}: 38.8/37$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 53.7/40$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 78.7/44$

All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 138.9/85$

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: 1249.389 $\pm$ 0.355 χ^2 /NDF: 2342871.2/19

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

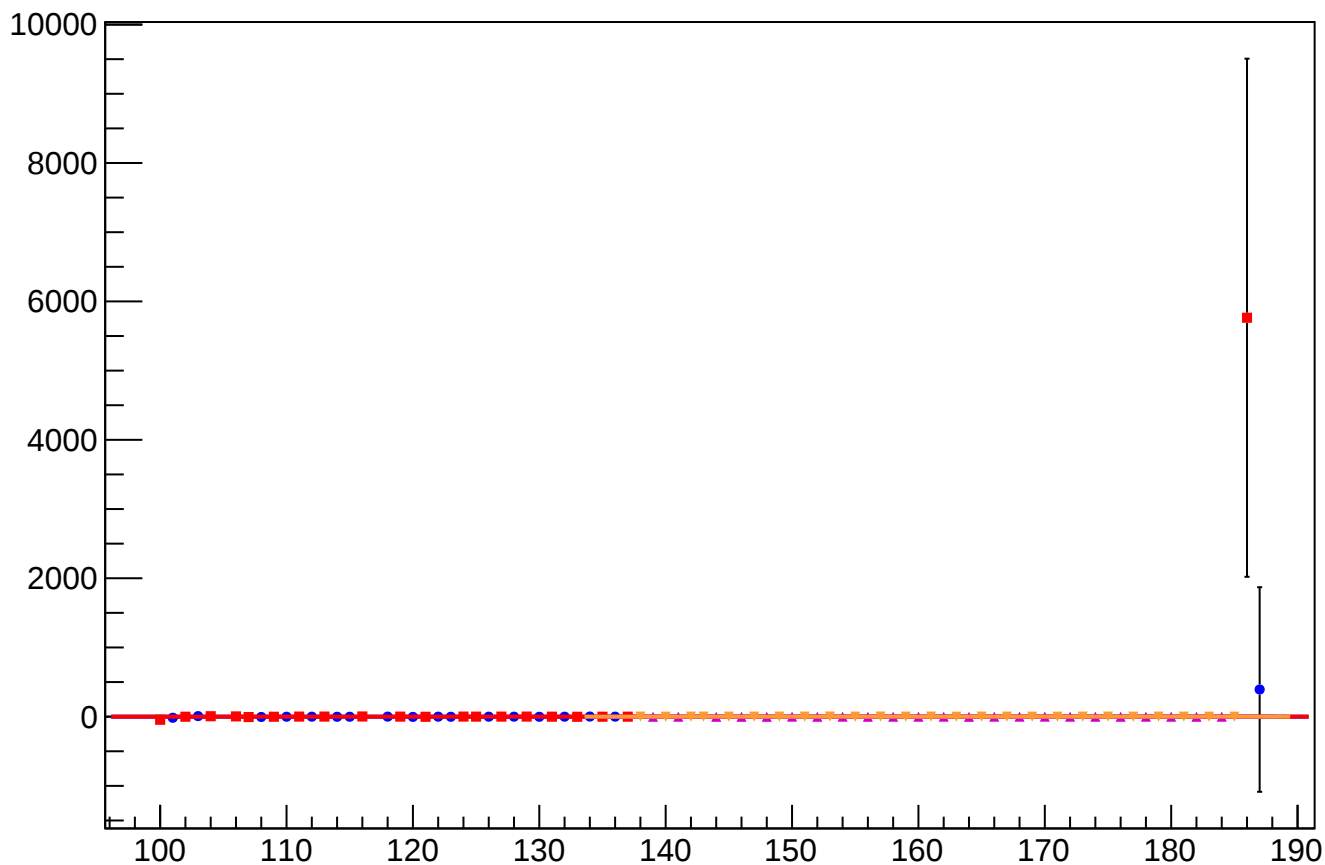
Right: 1205.351 $\pm$ 0.247 χ^2 /NDF: 4259886.3/37

In: 757.049 $\pm$ 0.114 χ^2 /NDF: 3808696.0/40

Out: 753.859 $\pm$ 0.110 χ^2 /NDF: 4892045.6/44

All: 755.410 $\pm$ 0.079 χ^2 /NDF: 8701147.5/85

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.060 $\pm$ 0.271 χ^2/NDF : 21.0/17

Left Out: 0.236 $\pm$ 0.122 χ^2/NDF : 17.6/24

Right Out: -0.245 $\pm$ 0.265 χ^2/NDF : 23.1/19

Left In: -0.115 $\pm$ 0.125 χ^2/NDF : 35.0/22

Left: 0.065 $\pm$ 0.088 χ^2/NDF : 56.6/47

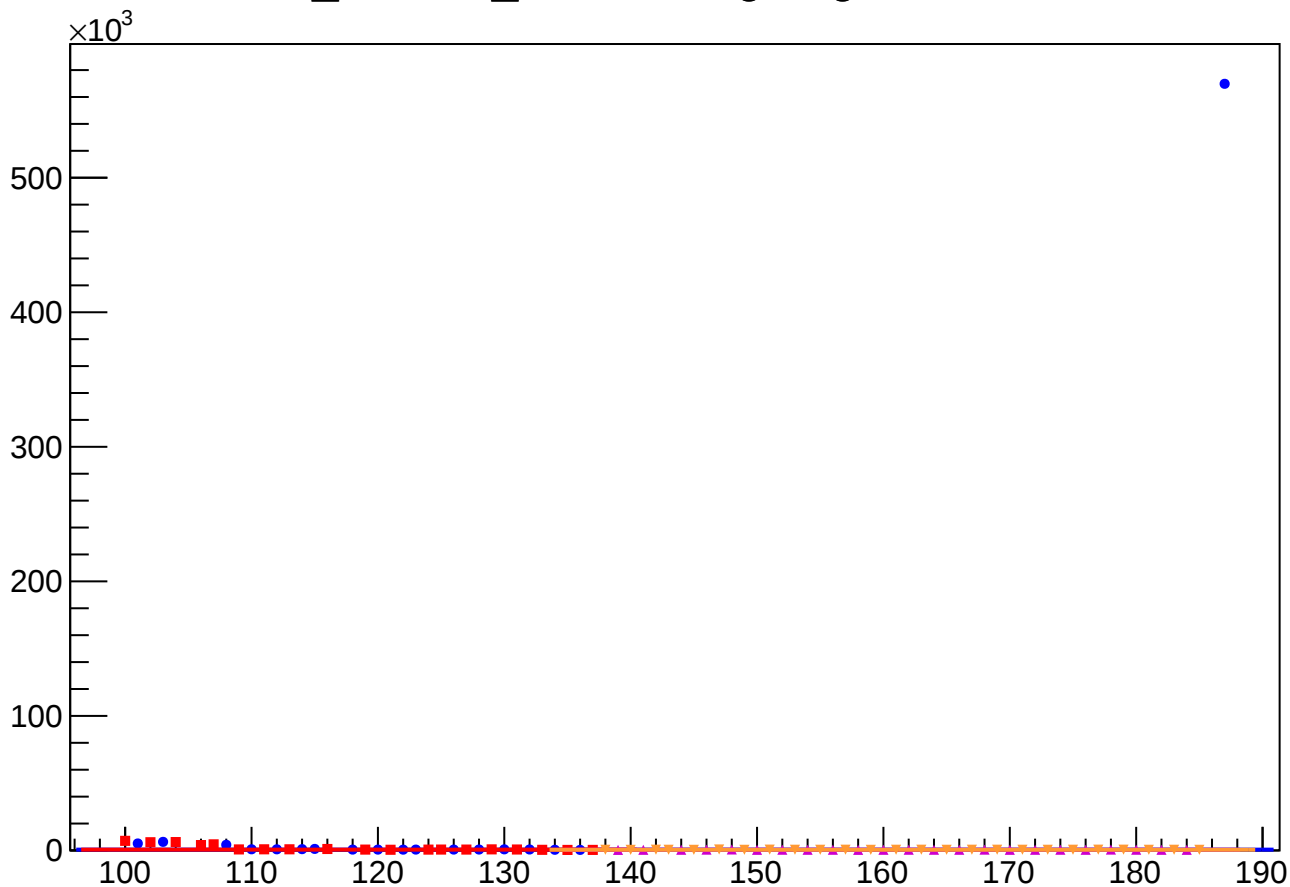
Right: -0.154 $\pm$ 0.189 χ^2/NDF : 44.3/37

In: -0.105 $\pm$ 0.114 χ^2/NDF : 56.0/40

Out: 0.152 $\pm$ 0.111 χ^2/NDF : 43.4/44

All: 0.026 $\pm$ 0.080 χ^2/NDF : 102.0/85

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: 599.715 $\pm$ 0.187 χ^2 /NDF: 3547458.7/18

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

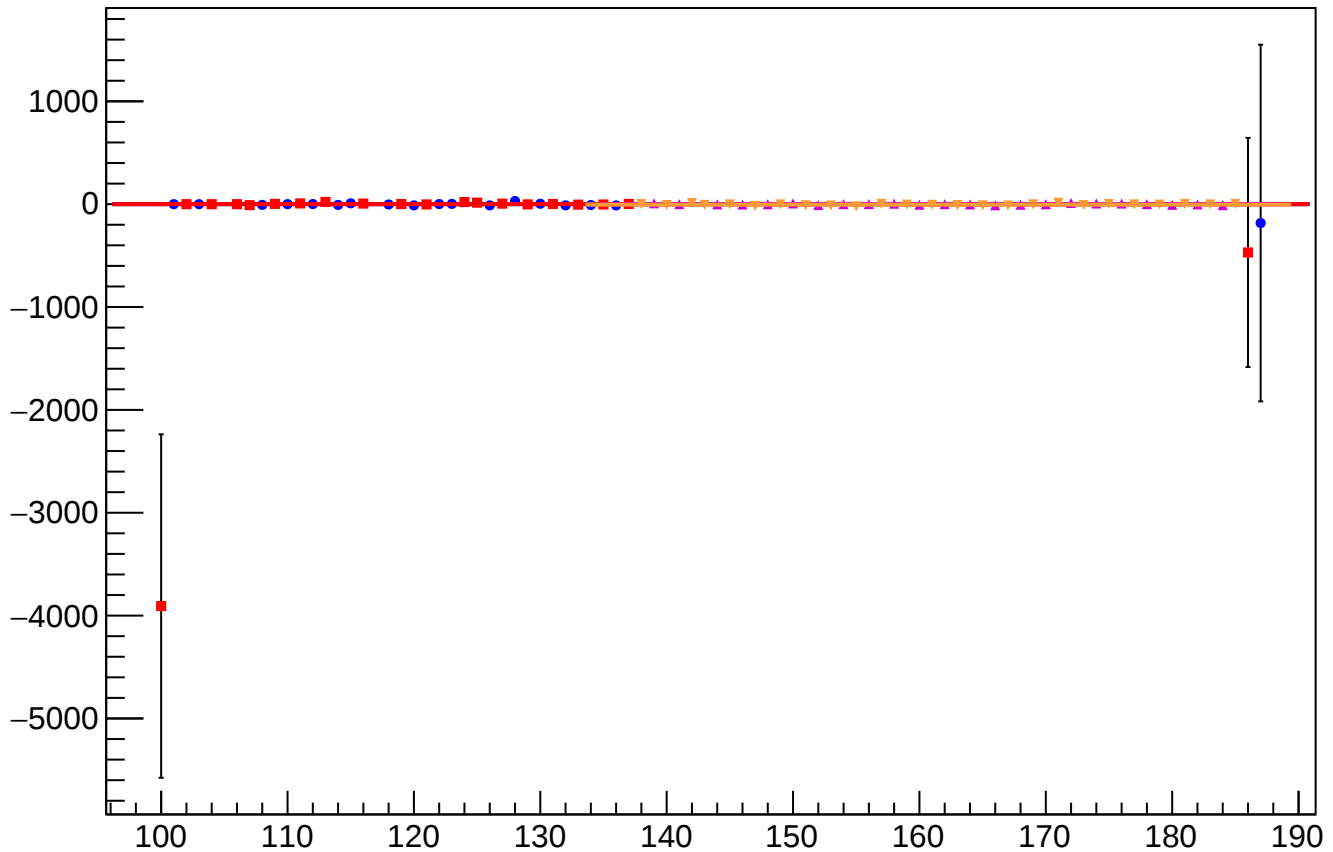
Right: 604.067 $\pm$ 0.134 χ^2 /NDF: 6982633.5/36

In: 535.613 $\pm$ 0.081 χ^2 /NDF: 4055707.6/40

Out: 536.035 $\pm$ 0.079 χ^2 /NDF: 4019381.9/43

All: 535.829 $\pm$ 0.056 χ^2 /NDF: 8075103.6/84

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022+/-0.021 χ^2/NDF : 15.6/17

Left Out: -4.474+/-0.956 χ^2/NDF : 58.2/24

Right Out: 0.027+/-0.020 χ^2/NDF : 17.0/19

Left In: 0.193+/-0.990 χ^2/NDF : 29.2/22

Left: -2.224+/-0.688 χ^2/NDF : 99.0/47

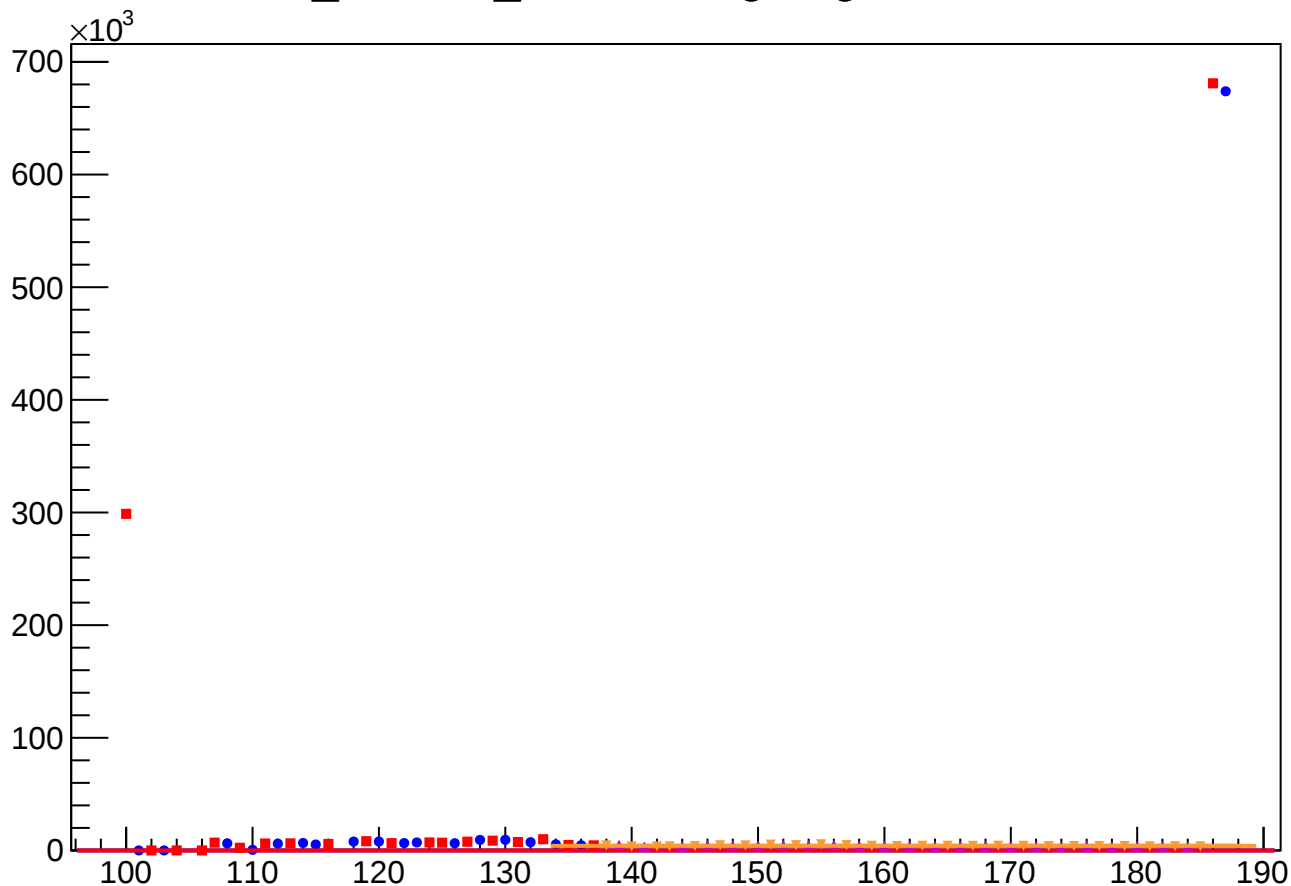
Right: 0.004+/-0.014 χ^2/NDF : 35.5/37

In: -0.022+/-0.021 χ^2/NDF : 44.9/40

Out: 0.025+/-0.020 χ^2/NDF : 97.4/44

All: 0.003+/-0.014 χ^2/NDF : 144.9/85

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: 17.267 $\pm$ 0.014 χ^2/NDF : 11506002.7/19

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

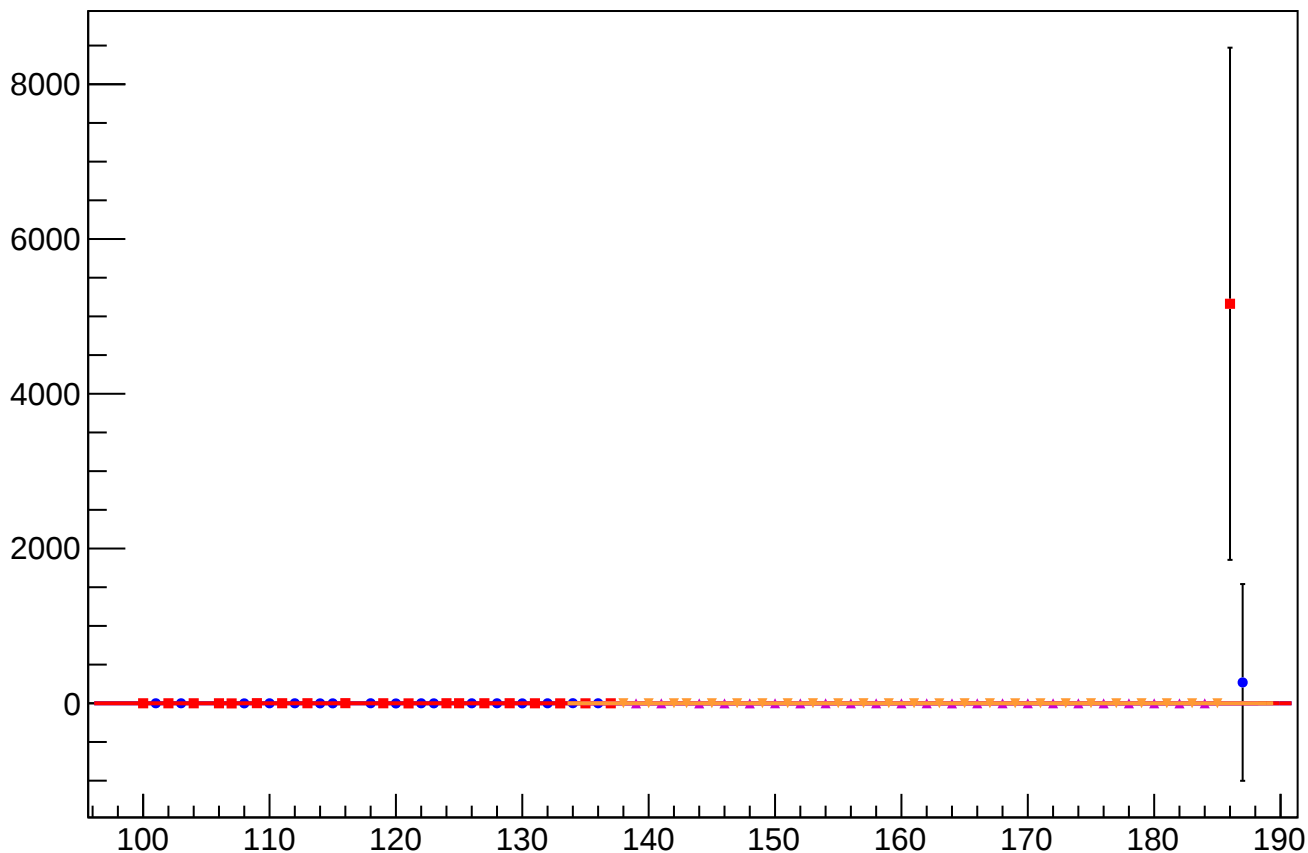
Right: 17.300 $\pm$ 0.010 χ^2/NDF : 22123472.8/37

In: 19.141 $\pm$ 0.015 χ^2/NDF : 45186705.6/40

Out: 19.004 $\pm$ 0.014 χ^2/NDF : 47958994.4/44

All: 19.069 $\pm$ 0.010 χ^2/NDF : 93145745.6/85

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 15.4/17$

Left Out: 0.151 ± 0.076 $\chi^2/\text{NDF}: 16.8/24$

Right Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 20.5/19$

Left In: -0.075 ± 0.078 $\chi^2/\text{NDF}: 34.8/22$

Left: 0.041 ± 0.055 $\chi^2/\text{NDF}: 55.8/47$

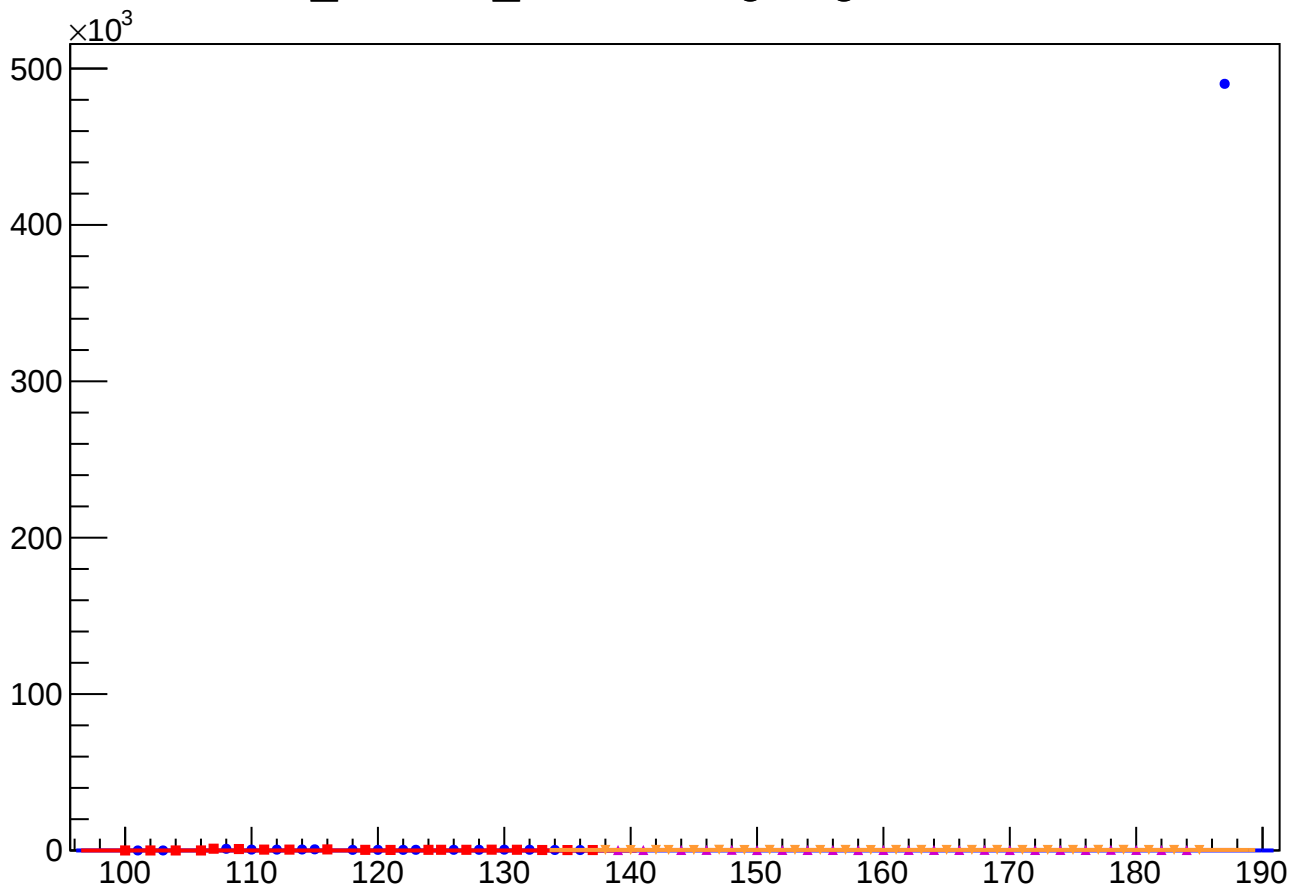
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 36.0/37$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 51.1/40$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 41.2/44$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 92.4/85$

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: 10690594.4/18

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

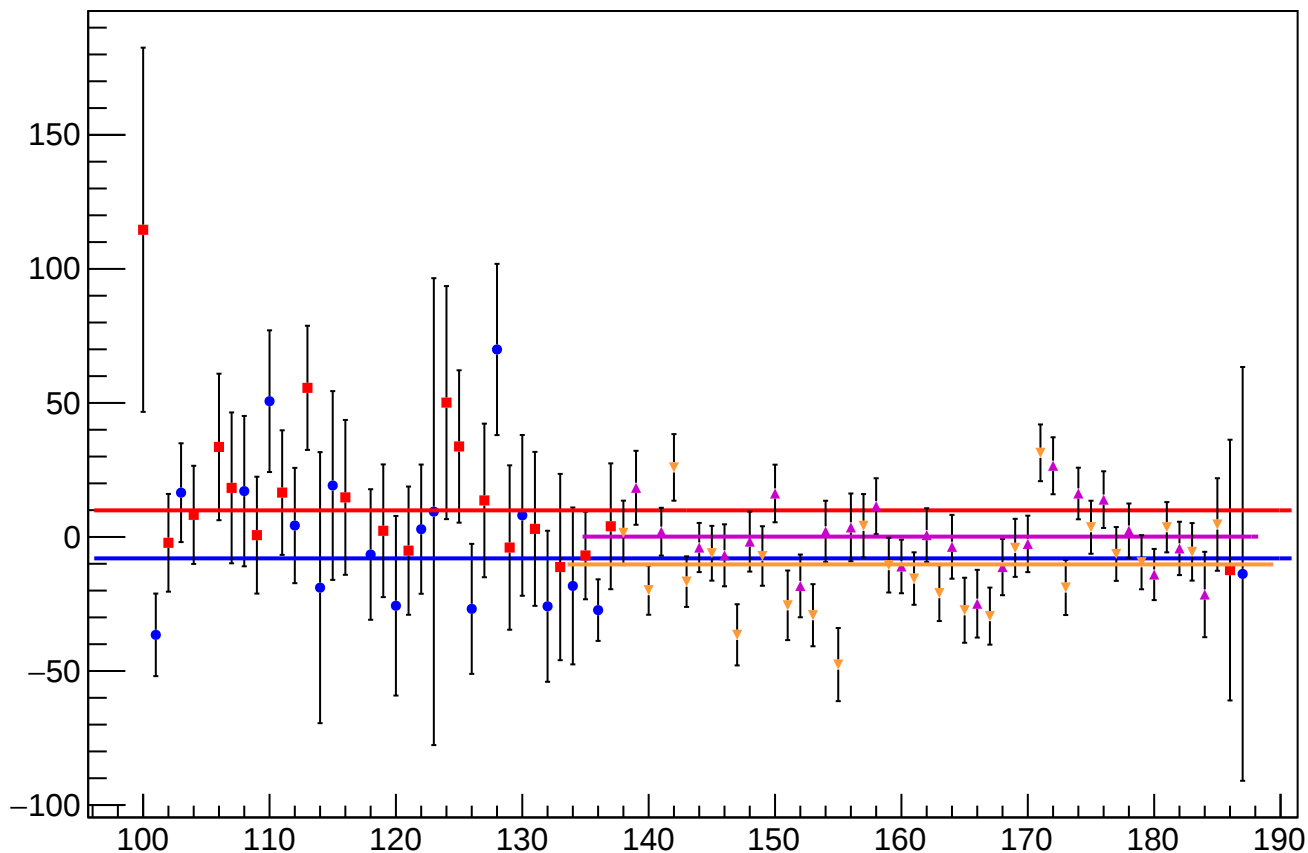
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 21853231.5/36

In: 1.914 $\pm$ 0.001 χ^2 /NDF: 45565875.8/40

Out: 1.937 $\pm$ 0.001 χ^2 /NDF: 46998448.2/43

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 92564461.8/84

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.983 $\pm$ 5.624 χ^2/NDF : 22.6/17

Left Out: -10.235 $\pm$ 2.167 χ^2/NDF : 58.0/24

Right Out: 9.928 $\pm$ 5.654 χ^2/NDF : 11.9/19

Left In: 0.130 $\pm$ 2.242 χ^2/NDF : 29.8/22

Left: -5.230 $\pm$ 1.558 χ^2/NDF : 98.9/47

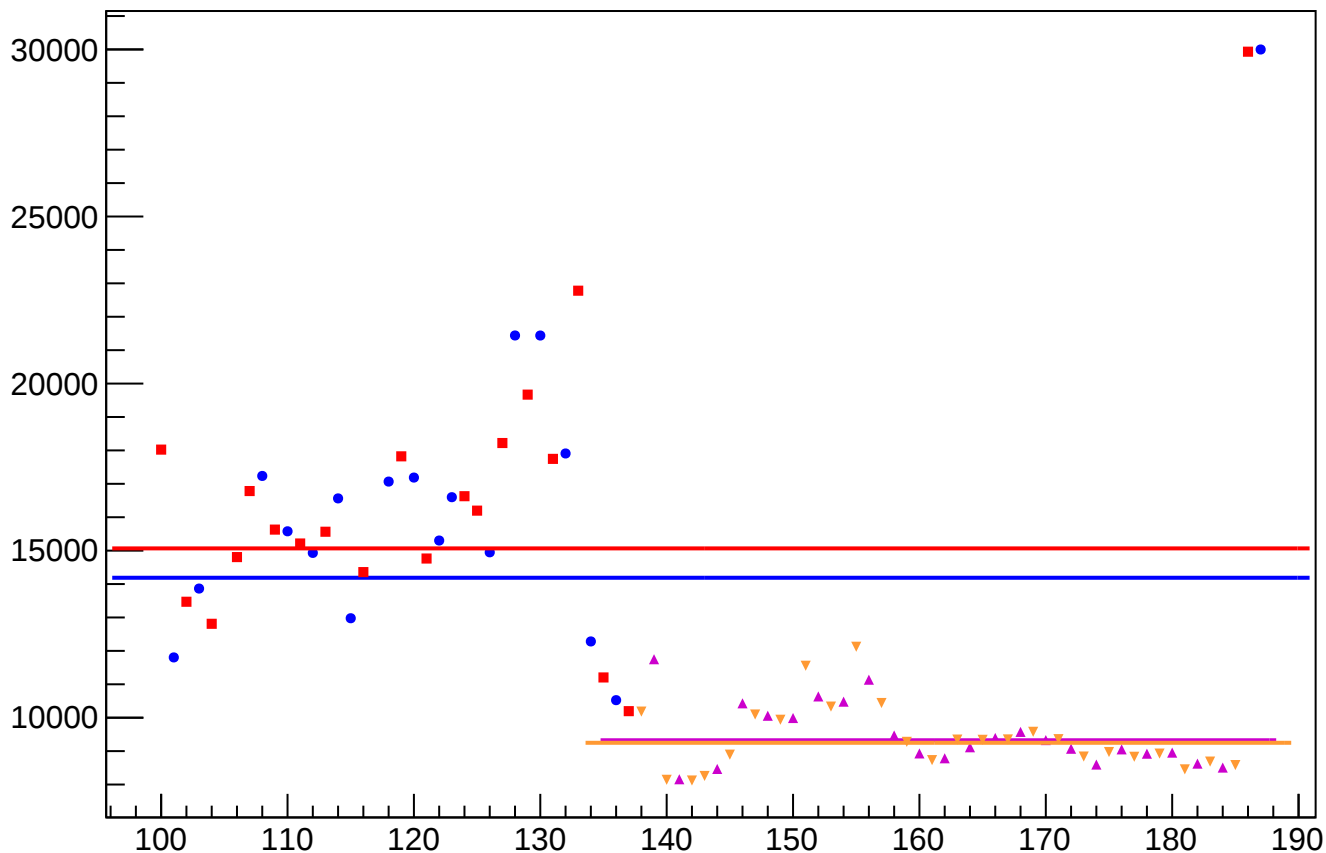
Right: 0.925 $\pm$ 3.987 χ^2/NDF : 39.5/37

In: -0.983 $\pm$ 2.083 χ^2/NDF : 54.2/40

Out: -7.653 $\pm$ 2.023 χ^2/NDF : 80.9/44

All: -4.415 $\pm$ 1.451 χ^2/NDF : 140.5/85

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: 15067.147 $\pm$ 3.998 χ^2 /NDF: 661492.7/19

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

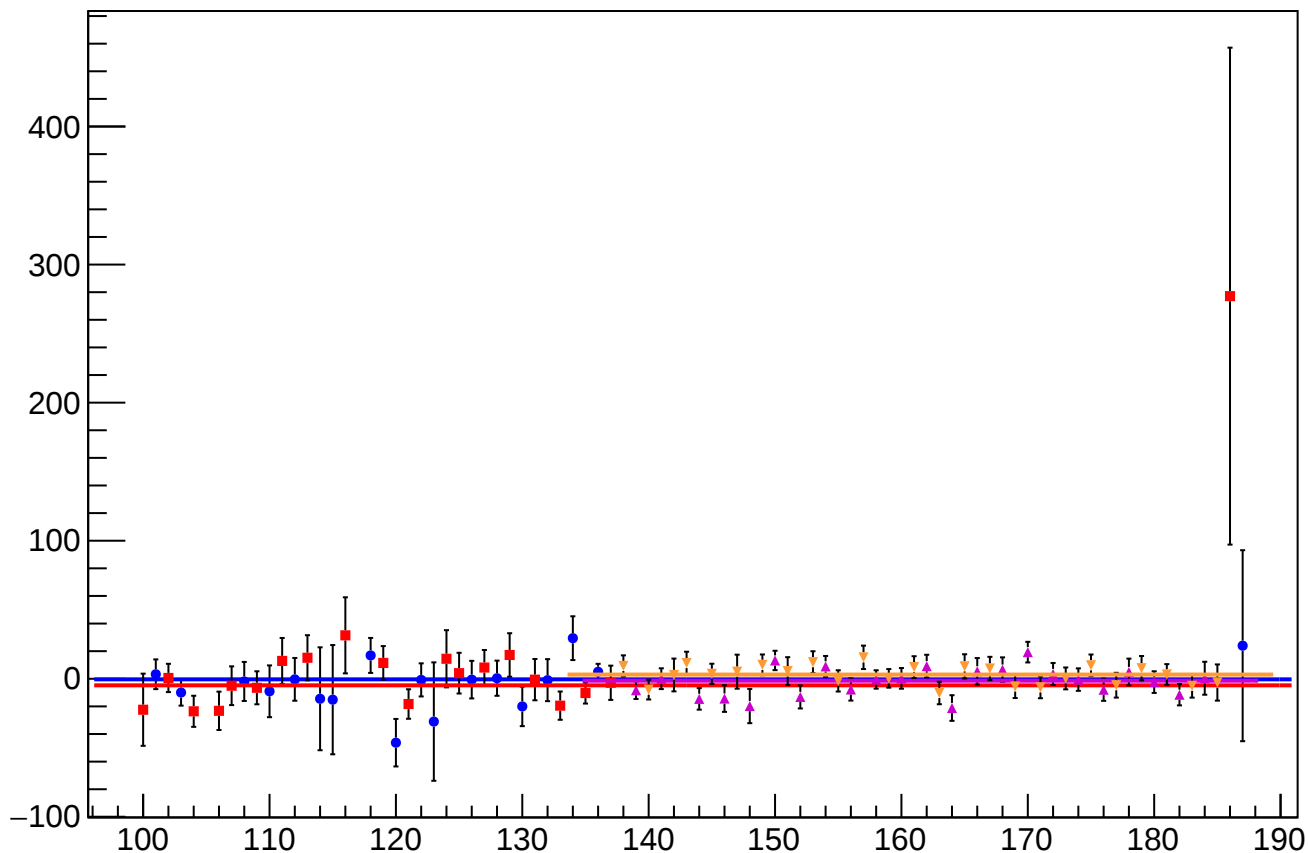
Right: 14625.488 $\pm$ 2.819 χ^2 /NDF: 1375005.7/37

In: 9992.190 $\pm$ 1.473 χ^2 /NDF:2260772.2/40

Out: 9994.341 $\pm$ 1.431 χ^2 /NDF:2840038.6/44

All: 9993.297 $\pm$ 1.026 χ^2 /NDF: 5100811.9/85

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.407 ± 3.086 χ^2/NDF : 17.6/17

Left Out: 3.062 ± 1.659 χ^2/NDF : 18.3/24

Right Out: -4.739 ± 2.945 χ^2/NDF : 22.4/19

Left In: -1.394 ± 1.693 χ^2/NDF : 35.4/22

Left: 0.879 ± 1.185 χ^2/NDF : 57.2/47

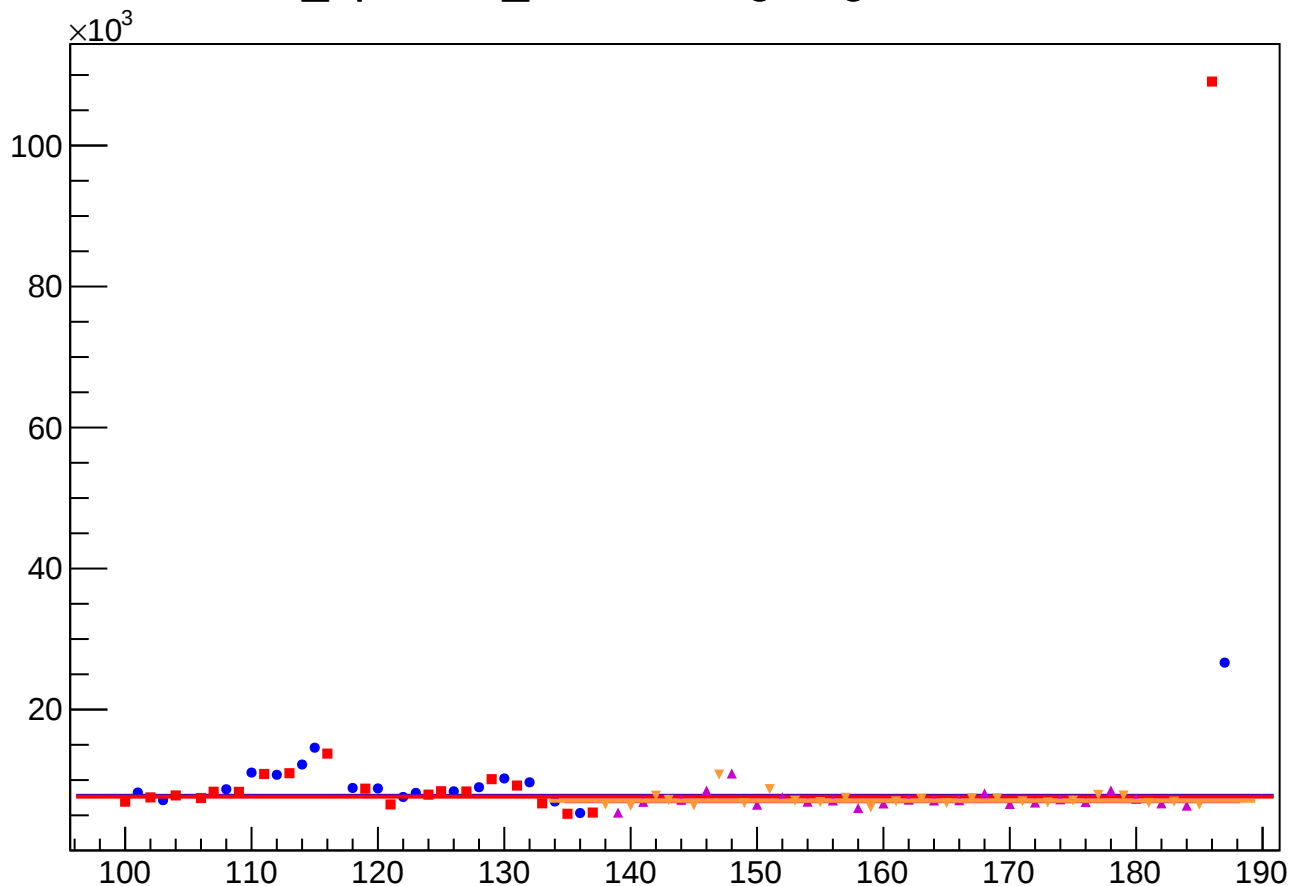
Right: -2.674 ± 2.131 χ^2/NDF : 41.0/37

In: -1.166 ± 1.484 χ^2/NDF : 53.0/40

Out: 1.183 ± 1.445 χ^2/NDF : 46.0/44

All: 0.040 ± 1.036 χ^2/NDF : 100.3/85

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: 7647.285 $\pm$ 2.083 χ^2/NDF : 1314650.1/19

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

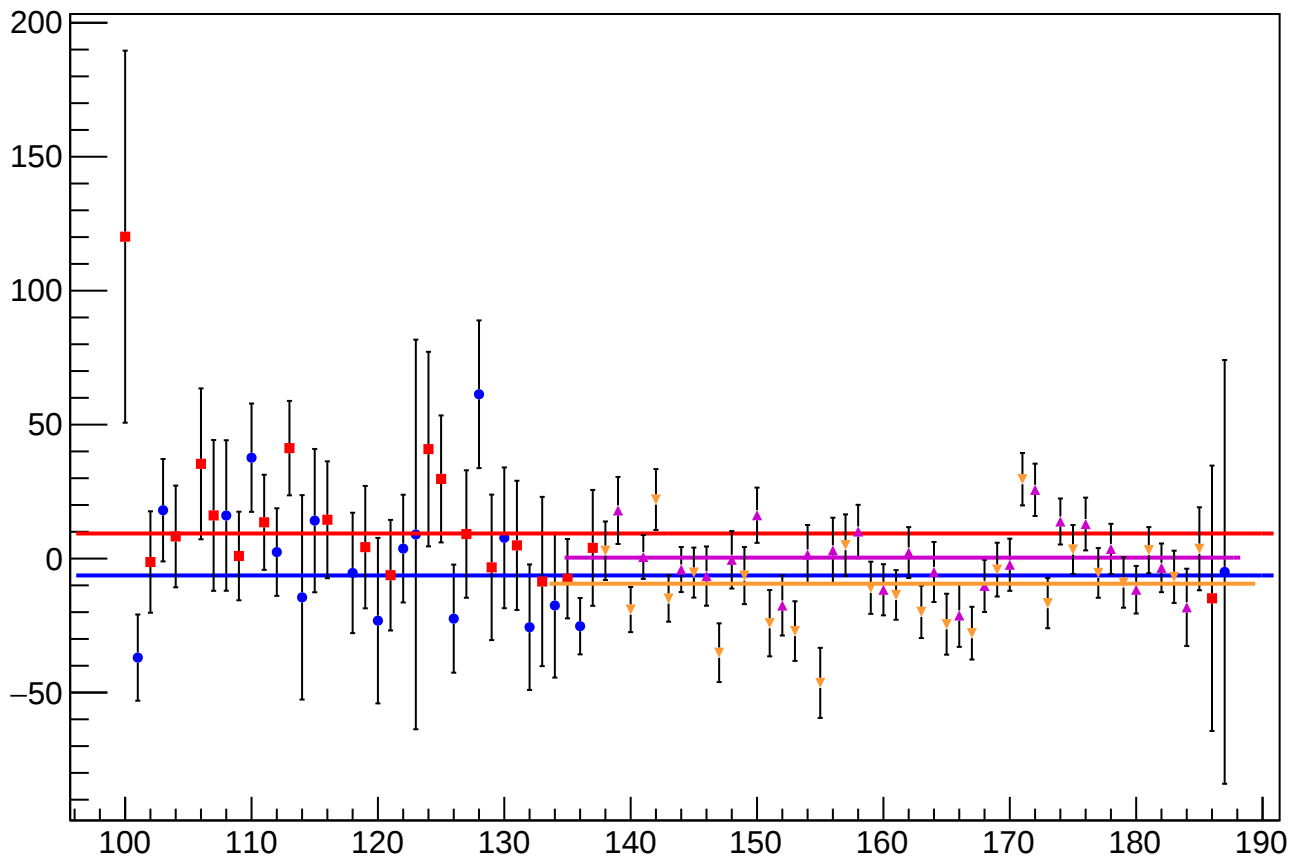
Right: 7703.064 $\pm$ 1.507 χ^2/NDF : 2208270.0/37

In: 7177.235 $\pm$ 1.050 χ^2/NDF : 1536296.4/40

Out: 7206.603 $\pm$ 1.022 χ^2/NDF : 1761069.9/44

All: 7192.311 $\pm$ 0.732 χ^2/NDF : 3297768.1/85

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: 9.366 $\pm$ 4.987 χ^2/NDF : 11.7/19

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

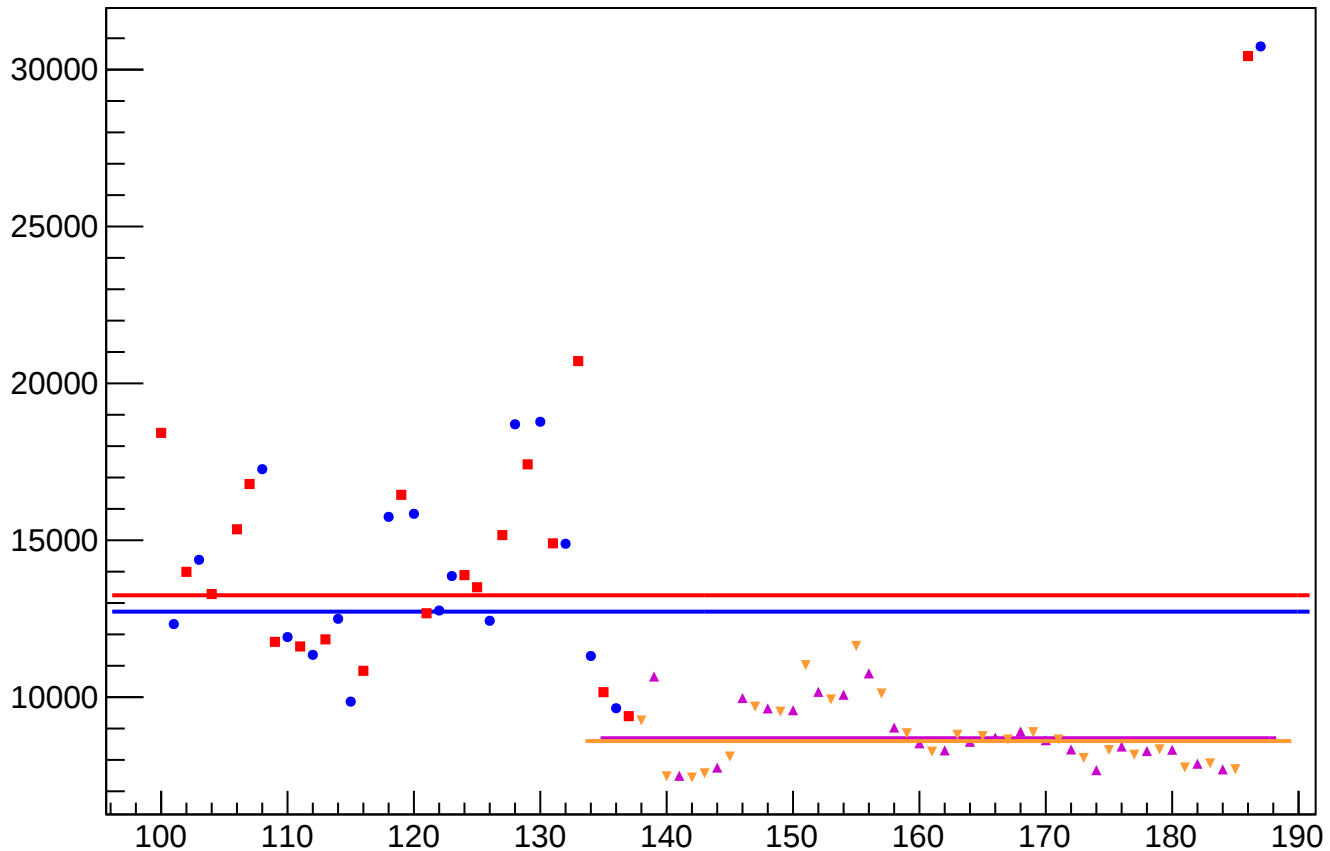
Right: 1.609 $\pm$ 3.543 χ^2/NDF : 39.7/37

In: -0.626 $\pm$ 1.932 χ^2/NDF : 54.3/40

Out: -6.740 $\pm$ 1.870 χ^2/NDF : 82.2/44

All: -3.782 $\pm$ 1.344 χ^2/NDF : 141.7/85

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: 13246.891 $\pm$ 3.527 χ^2 /NDF: 741379.6/19

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

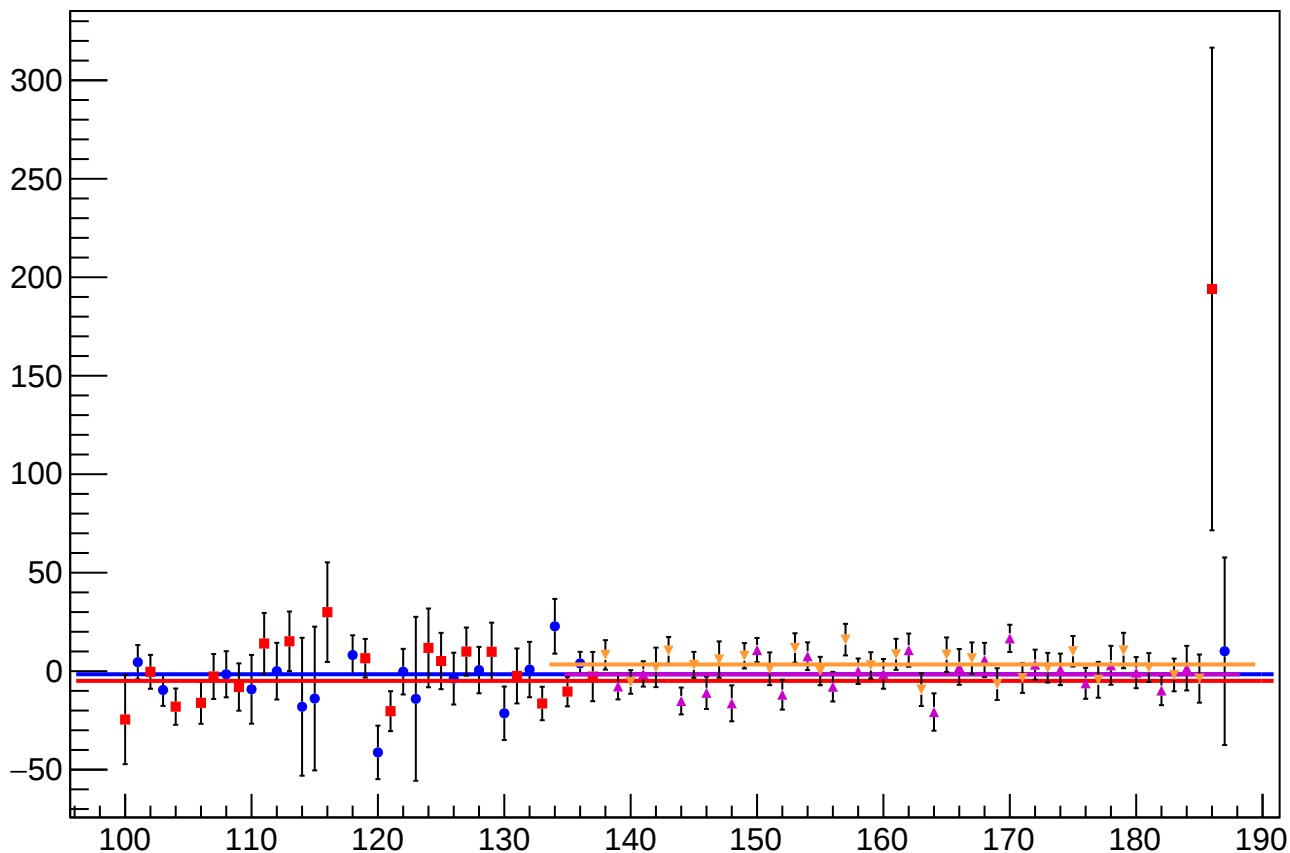
Right: 12988.614 $\pm$ 2.506 χ^2 /NDF: 1415733.4/37

In: 9284.378 $\pm$ 1.366 χ^2 /NDF: 2129801.5/40

Out: 9253.979 $\pm$ 1.323 χ^2 /NDF: 2671285.5/44

All: 9268.687 $\pm$ 0.950 χ^2 /NDF: 4801342.5/85

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: -4.930 ± 2.646 χ^2/NDF : 21.8/19

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

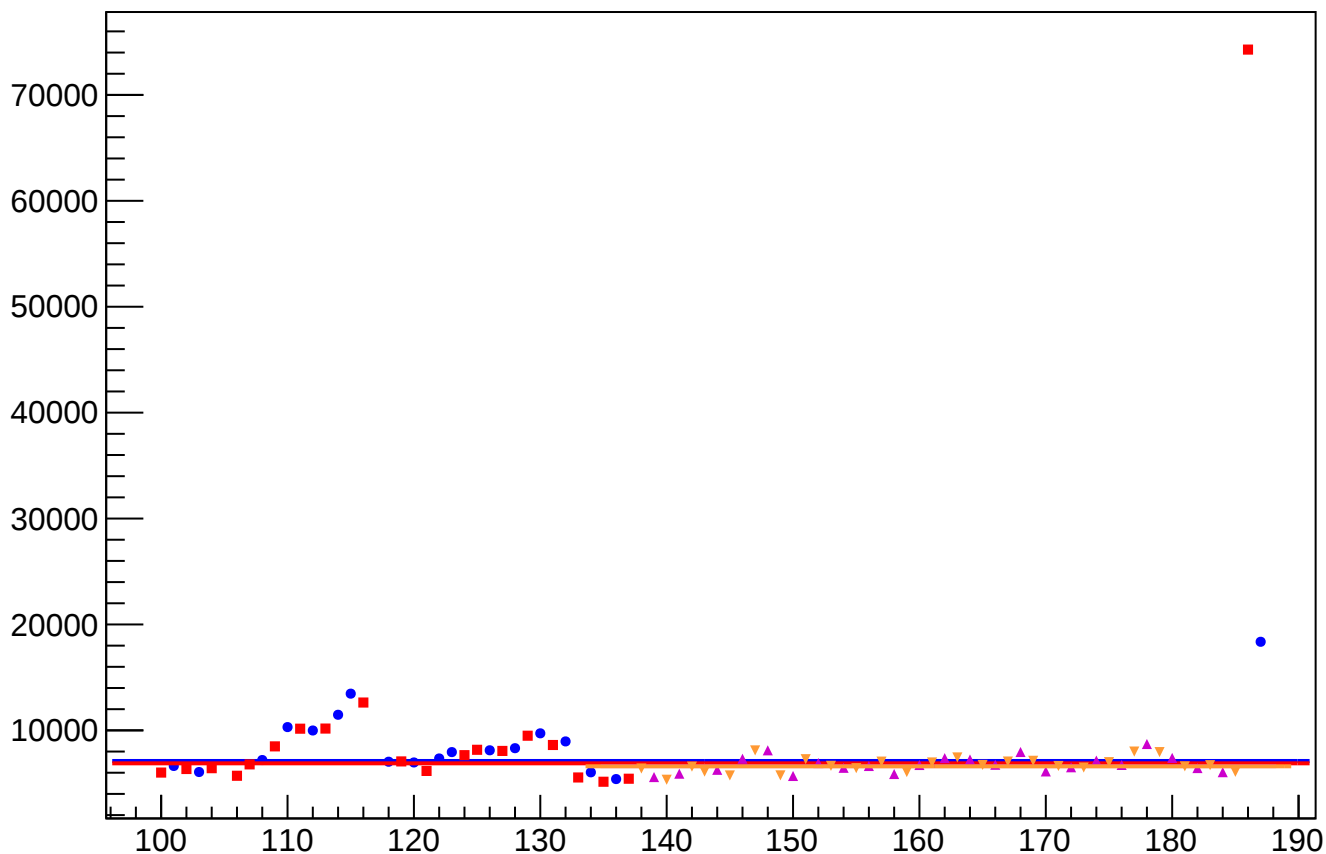
Right: -3.345 ± 1.925 χ^2/NDF : 40.4/37

In: -1.611 ± 1.389 χ^2/NDF : 51.3/40

Out: 1.276 ± 1.338 χ^2/NDF : 46.1/44

All: -0.113 ± 0.964 χ^2/NDF : 99.6/85

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: 6887.593 $\pm$ 1.871 χ^2/NDF : 1291771.2/19

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

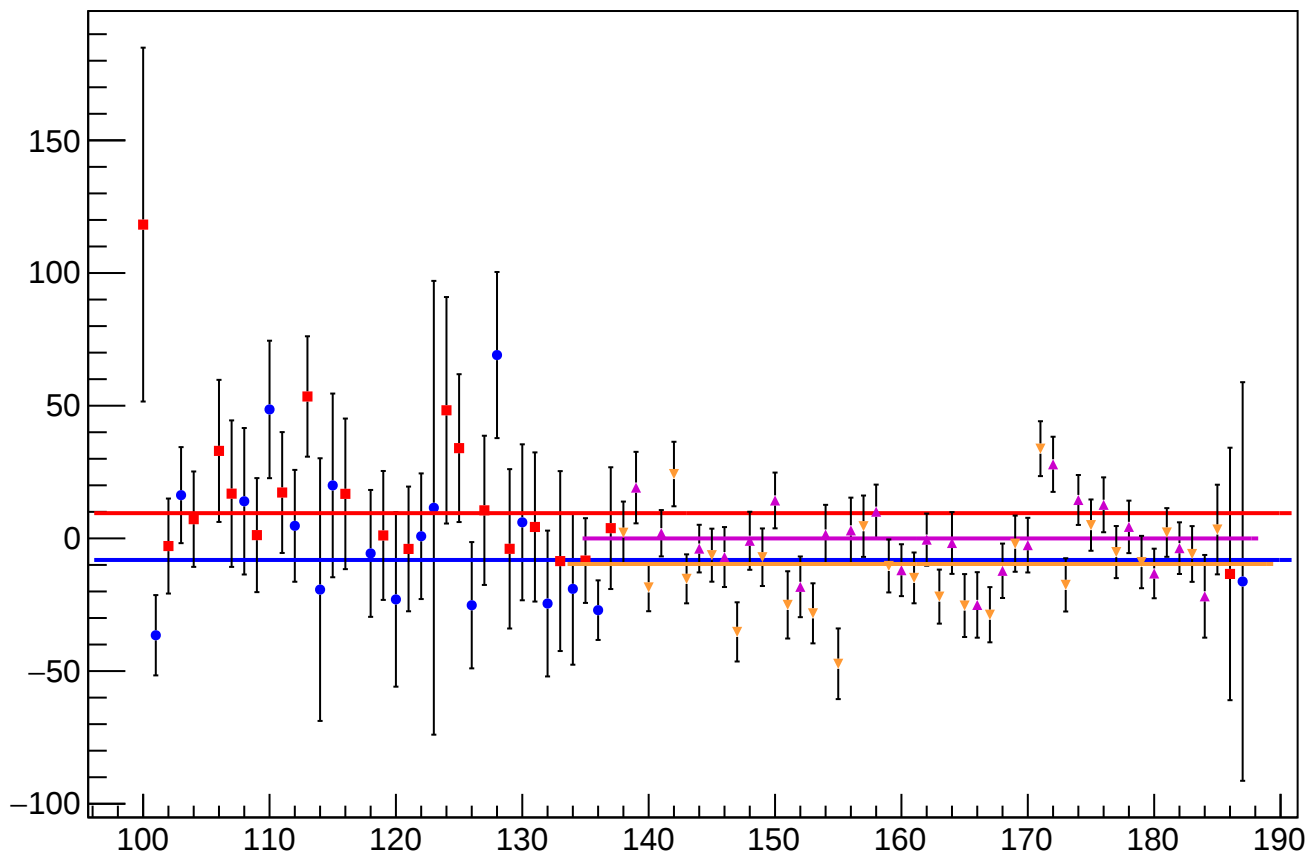
Right: 6991.770 $\pm$ 1.361 χ^2/NDF : 2012211.2/37

In: 6746.391 $\pm$ 0.982 χ^2/NDF : 1188361.4/40

Out: 6678.781 $\pm$ 0.946 χ^2/NDF : 1706915.5/44

All: 6711.308 $\pm$ 0.681 χ^2/NDF : 2897734.6/85

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: 9.512 ± 5.543 $\chi^2/\text{NDF}: 12.2/19$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

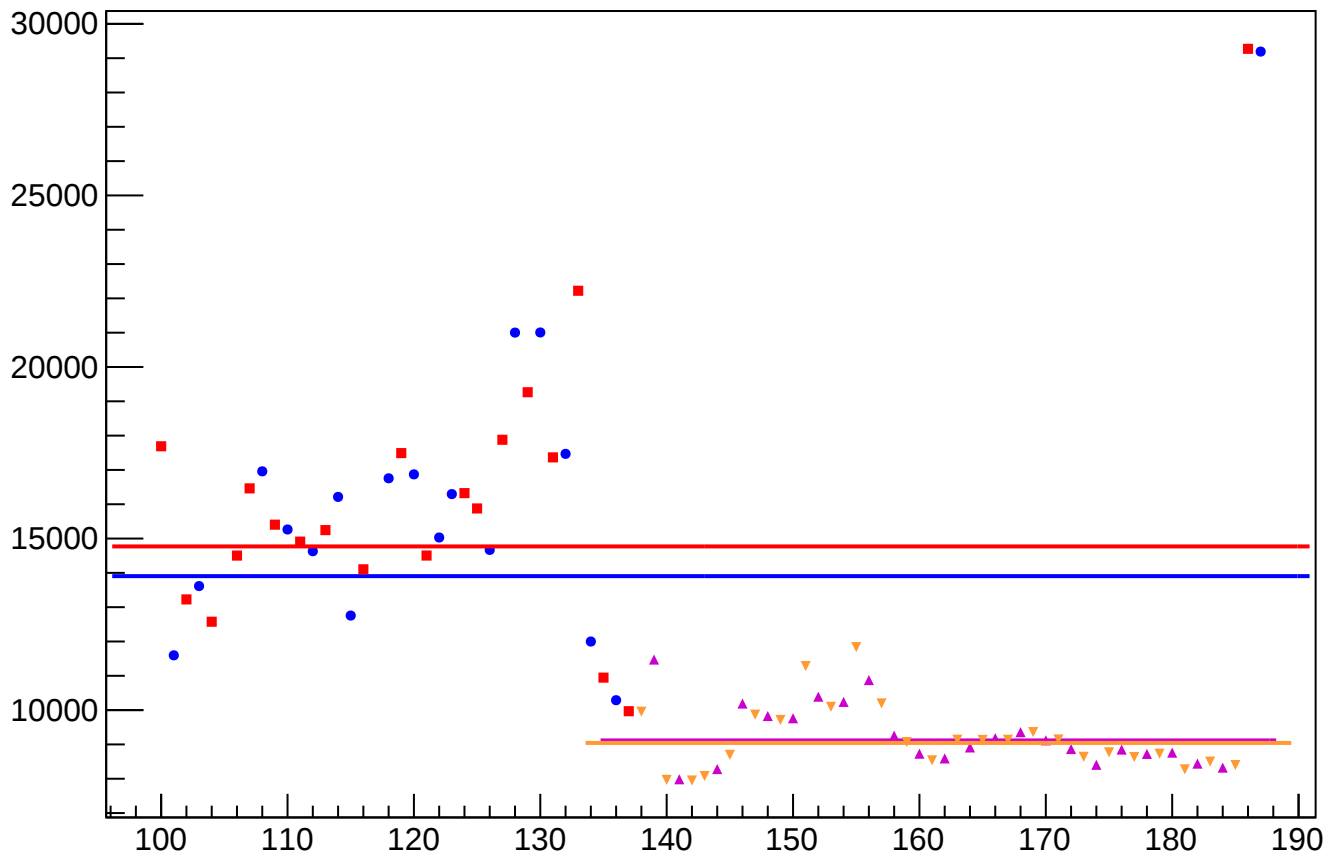
Right: 0.643 ± 3.908 $\chi^2/\text{NDF}: 39.7/37$

In: -1.127 ± 2.037 $\chi^2/\text{NDF}: 54.9/40$

Out: -7.207 ± 1.979 $\chi^2/\text{NDF}: 82.4/44$

All: -4.255 ± 1.419 $\chi^2/\text{NDF}: 142.0/85$

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: 14770.789+/-3.919 χ^2/NDF : 662393.4/19

Left In: 9116.921+/-1.550 χ^2/NDF : 277594.8/22

Left: 9078.947+/-1.077 χ^2/NDF : 606947.8/47

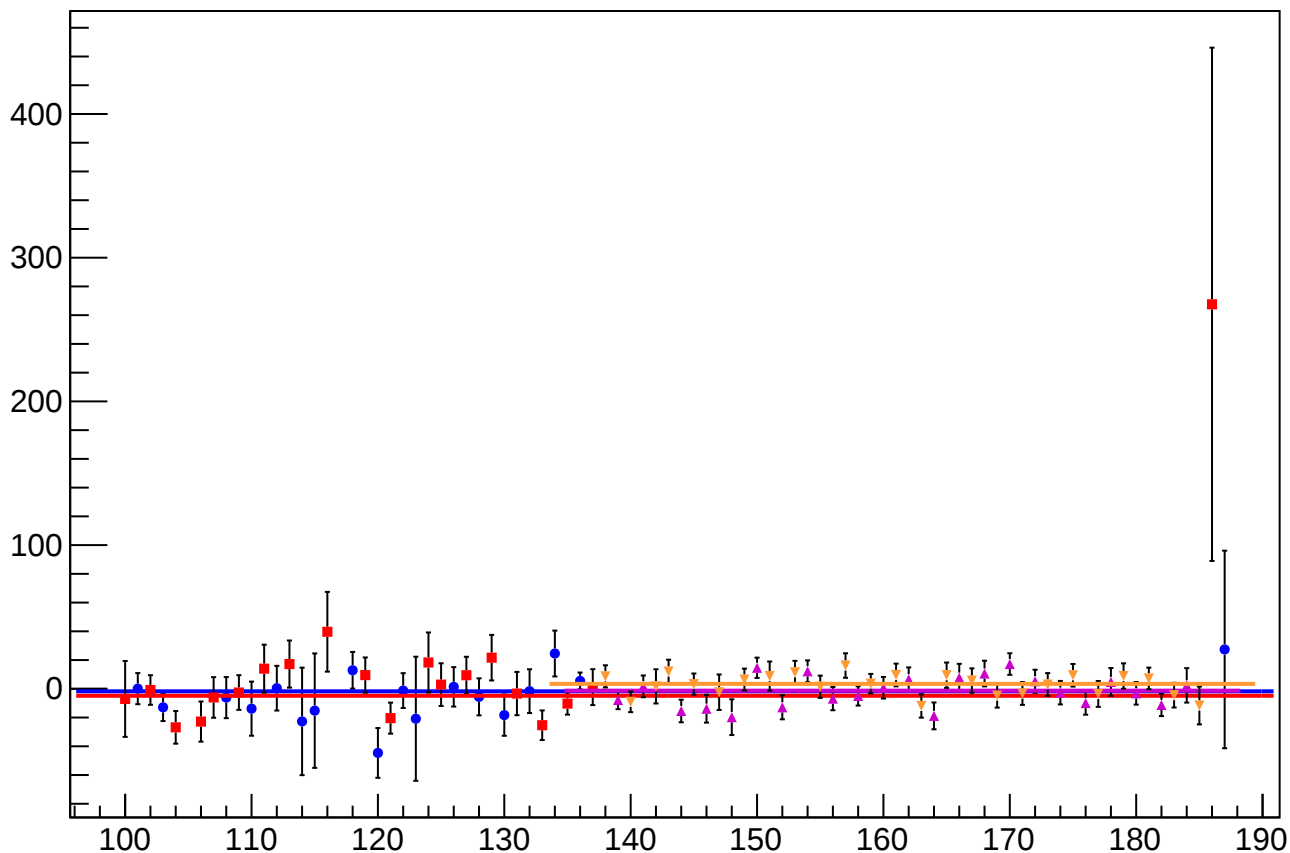
Right: 14335.276+/-2.764 χ^2/NDF : 1378237.1/37

In: 9770.758+/-1.440 χ^2/NDF : 2271892.9/40

Out: 9773.356+/-1.399 χ^2/NDF : 2853874.5/44

All: 9772.095+/-1.004 χ^2/NDF : 5125769.0/85

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -1.746 $\pm$ 3.109 χ^2/NDF : 15.9/17

Left Out: 3.439 $\pm$ 1.666 χ^2/NDF : 18.9/24

Right Out: -4.845 $\pm$ 2.968 χ^2/NDF : 27.3/19

Left In: -1.291 $\pm$ 1.701 χ^2/NDF : 36.5/22

Left: 1.123 $\pm$ 1.190 χ^2/NDF : 59.4/47

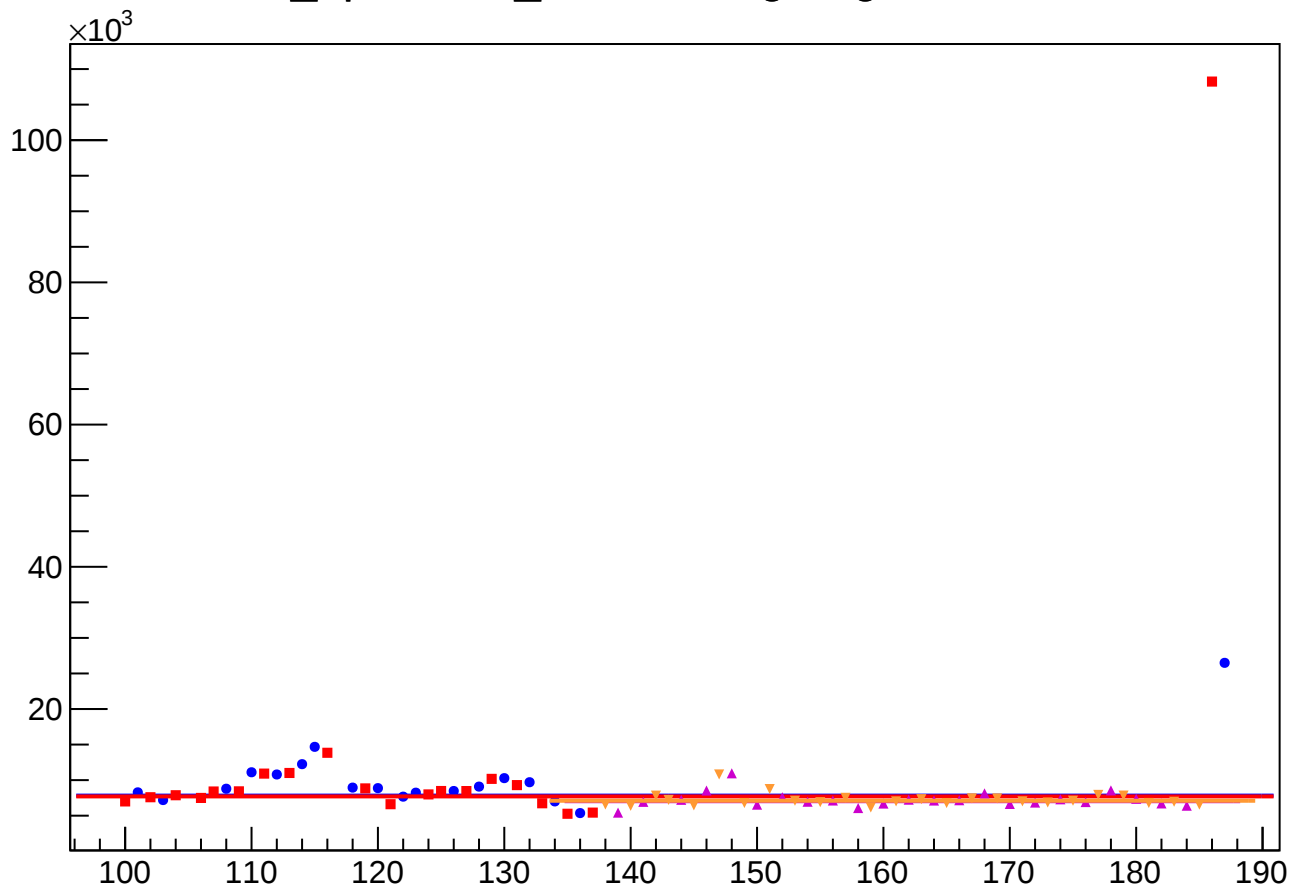
Right: -3.368 $\pm$ 2.147 χ^2/NDF : 43.7/37

In: -1.396 $\pm$ 1.492 χ^2/NDF : 52.4/40

Out: 1.454 $\pm$ 1.453 χ^2/NDF : 52.1/44

All: 0.067 $\pm$ 1.041 χ^2/NDF : 106.4/85

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: 7708.844 $\pm$ 2.099 χ^2/NDF : 1306658.9/19

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

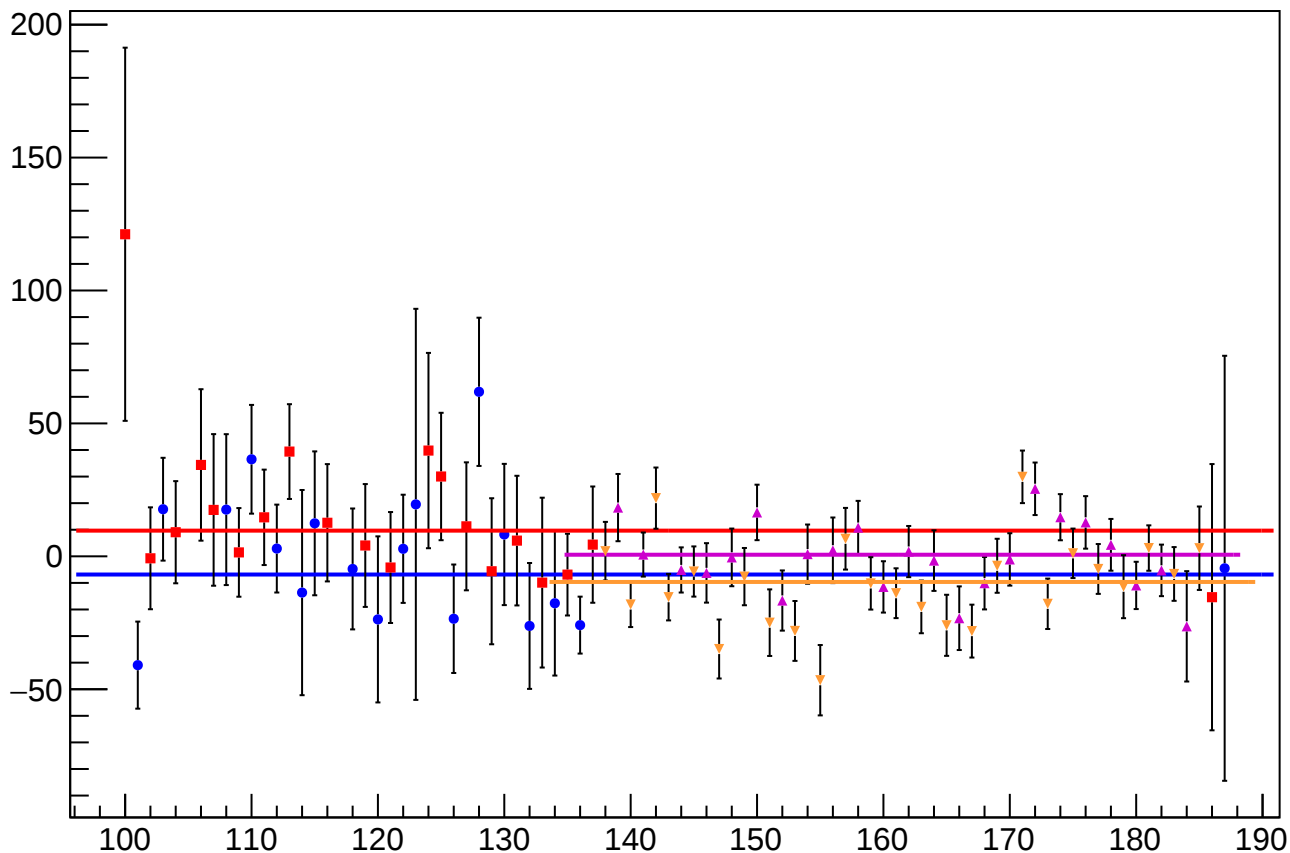
Right: 7763.641 $\pm$ 1.518 χ^2/NDF : 2194026.3/37

In: 7215.699 $\pm$ 1.055 χ^2/NDF : 1526378.2/40

Out: 7244.910 $\pm$ 1.027 χ^2/NDF : 1753470.1/44

All: 7230.695 $\pm$ 0.736 χ^2/NDF : 3280241.7/85

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: 9.664 $\pm$ 5.058 χ^2/NDF : 10.8/19

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

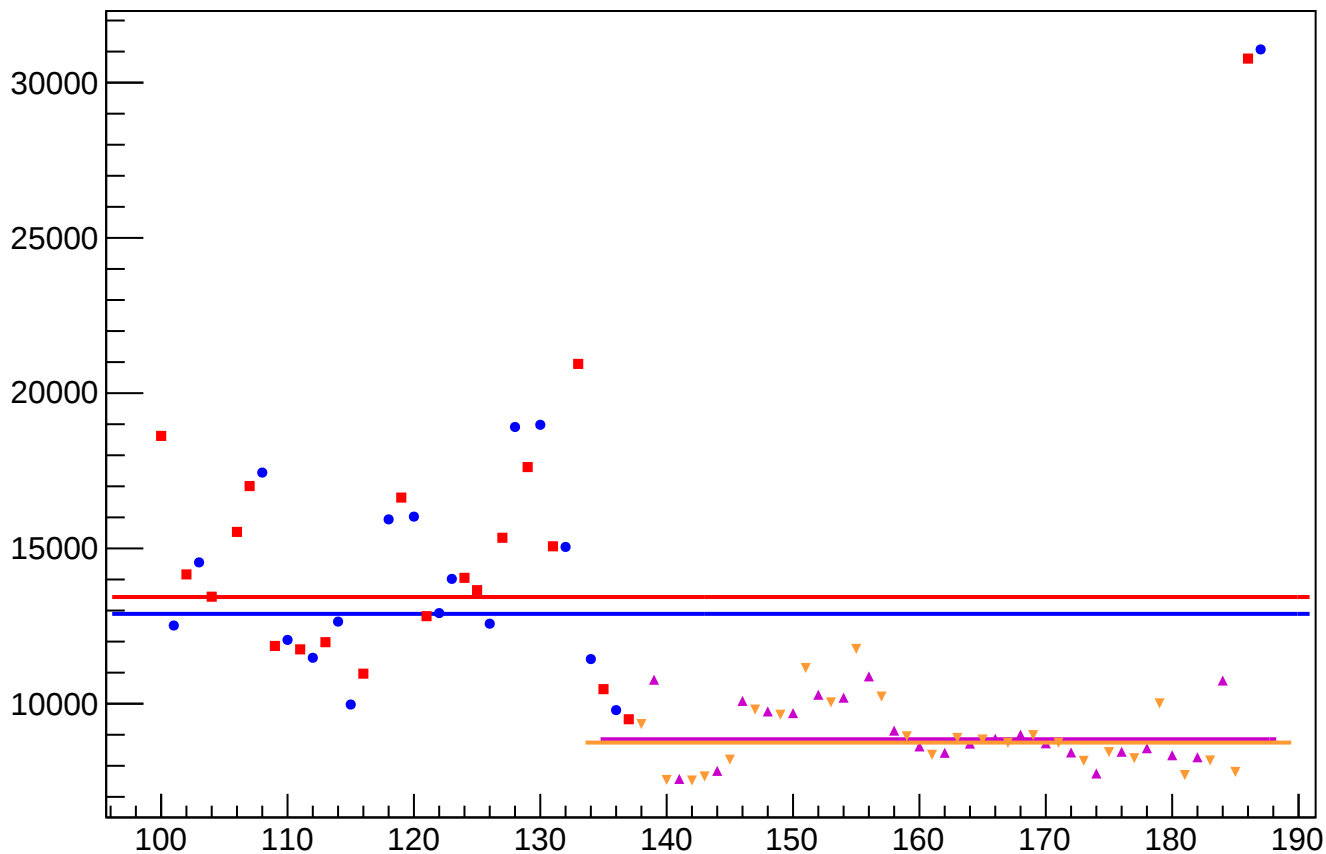
Right: 1.481 $\pm$ 3.592 χ^2/NDF : 39.9/37

In: -0.510 $\pm$ 1.970 χ^2/NDF : 55.2/40

Out: -6.900 $\pm$ 1.906 χ^2/NDF : 81.0/44

All: -3.811 $\pm$ 1.370 χ^2/NDF : 141.7/85

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: 13435.149 $\pm$ 3.577 χ^2 /NDF: 728235.9/19

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

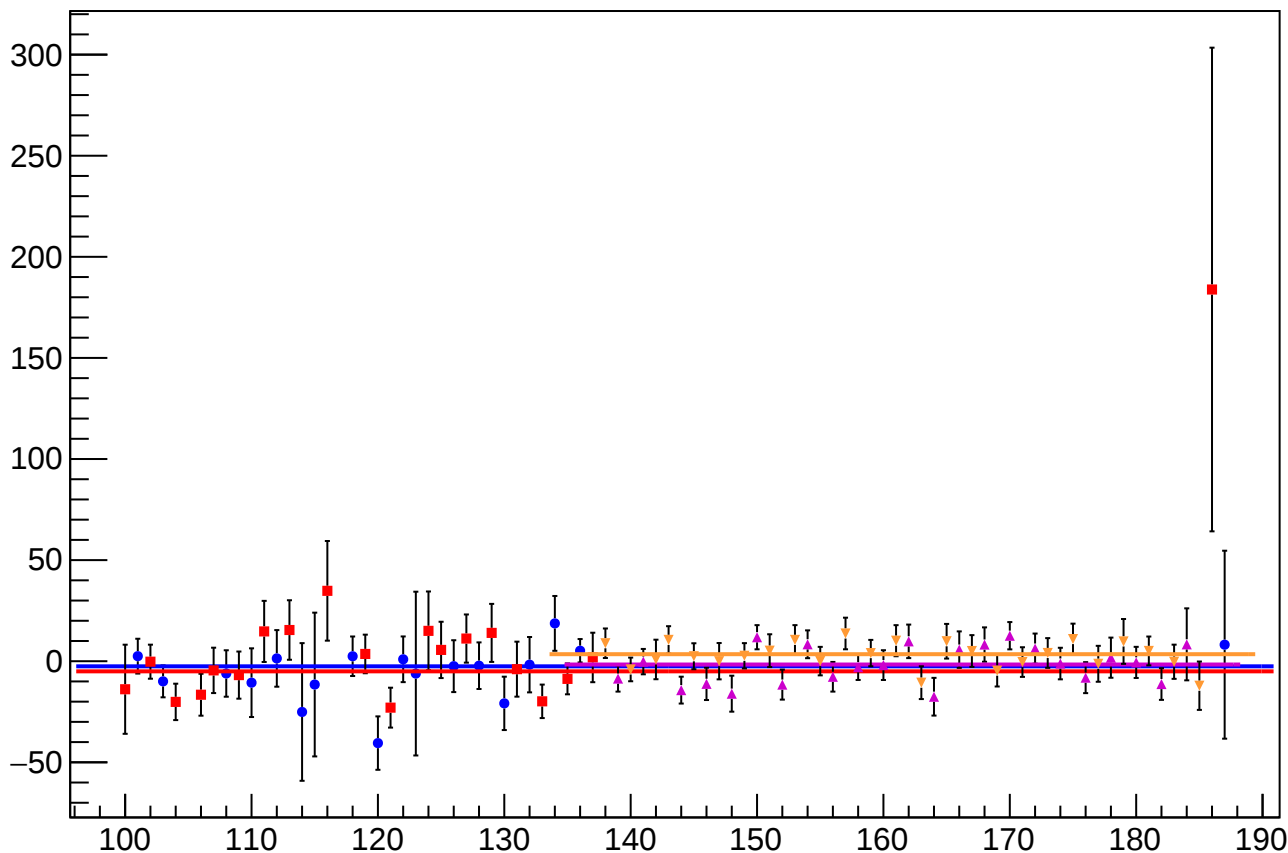
Right: 13166.414 $\pm$ 2.540 χ^2 /NDF: 1396505.6/37

In: 9457.135 $\pm$ 1.393 χ^2 /NDF:2090006.9/40

Out: 9413.607 $\pm$ 1.348 χ^2 /NDF:2664871.6/44

All: 9434.654 $\pm$ 0.968 χ^2 /NDF: 4755383.0/85

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: -5.010 ± 2.594 χ^2/NDF : 26.5/19

Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47

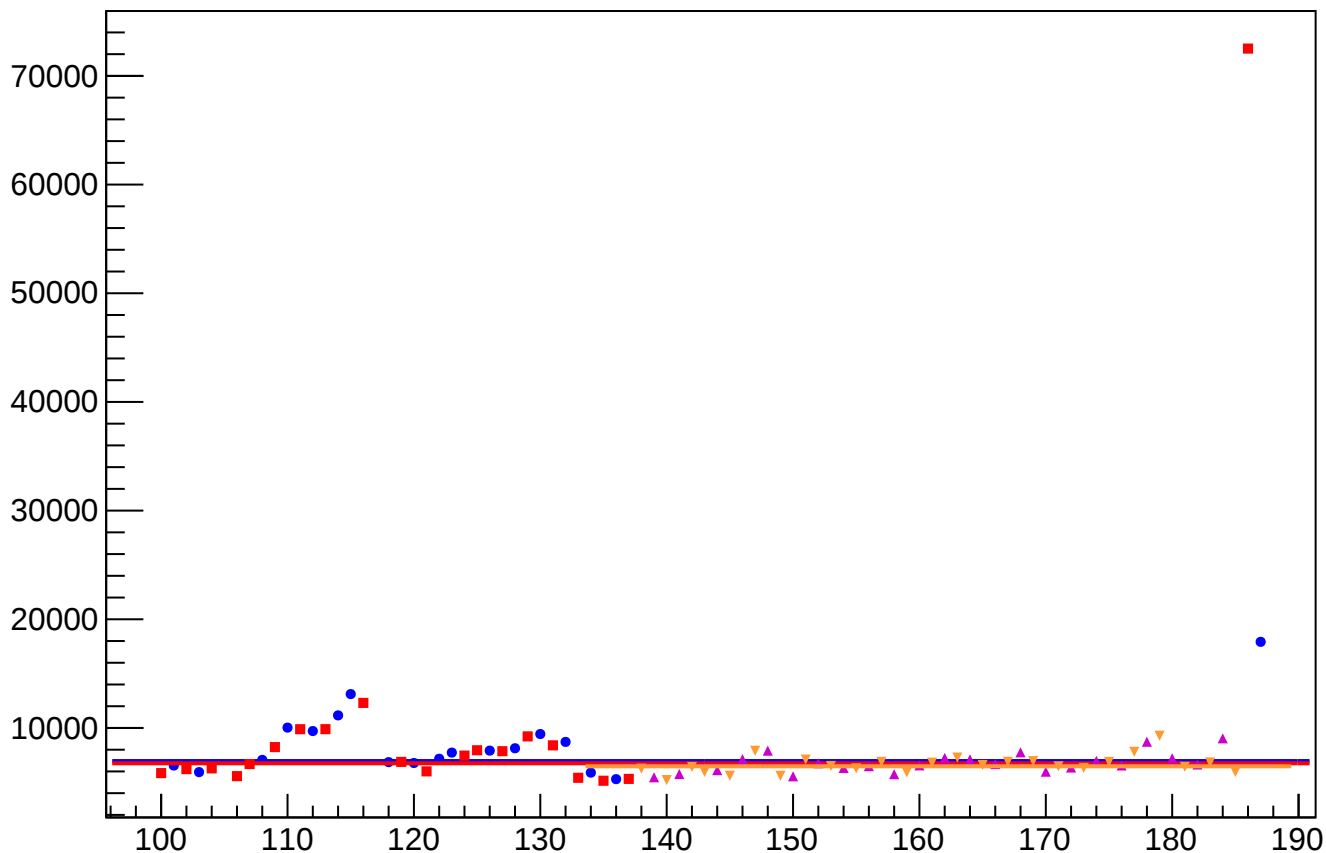
Right: -3.840 ± 1.886 χ^2/NDF : 43.9/37

In: -1.859 ± 1.368 χ^2/NDF : 50.8/40

Out: 1.296 ± 1.314 χ^2/NDF : 50.2/44

All: -0.218 ± 0.948 χ^2/NDF : 103.7/85

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6956.069+/-1.942 χ^2/NDF : 699779.8/17

Left Out: 6471.976+/-1.078 χ^2/NDF : 490282.9/24

Right Out: 6750.431+/-1.834 χ^2/NDF : 1262747.1/19

Left In: 6521.975+/-1.116 χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

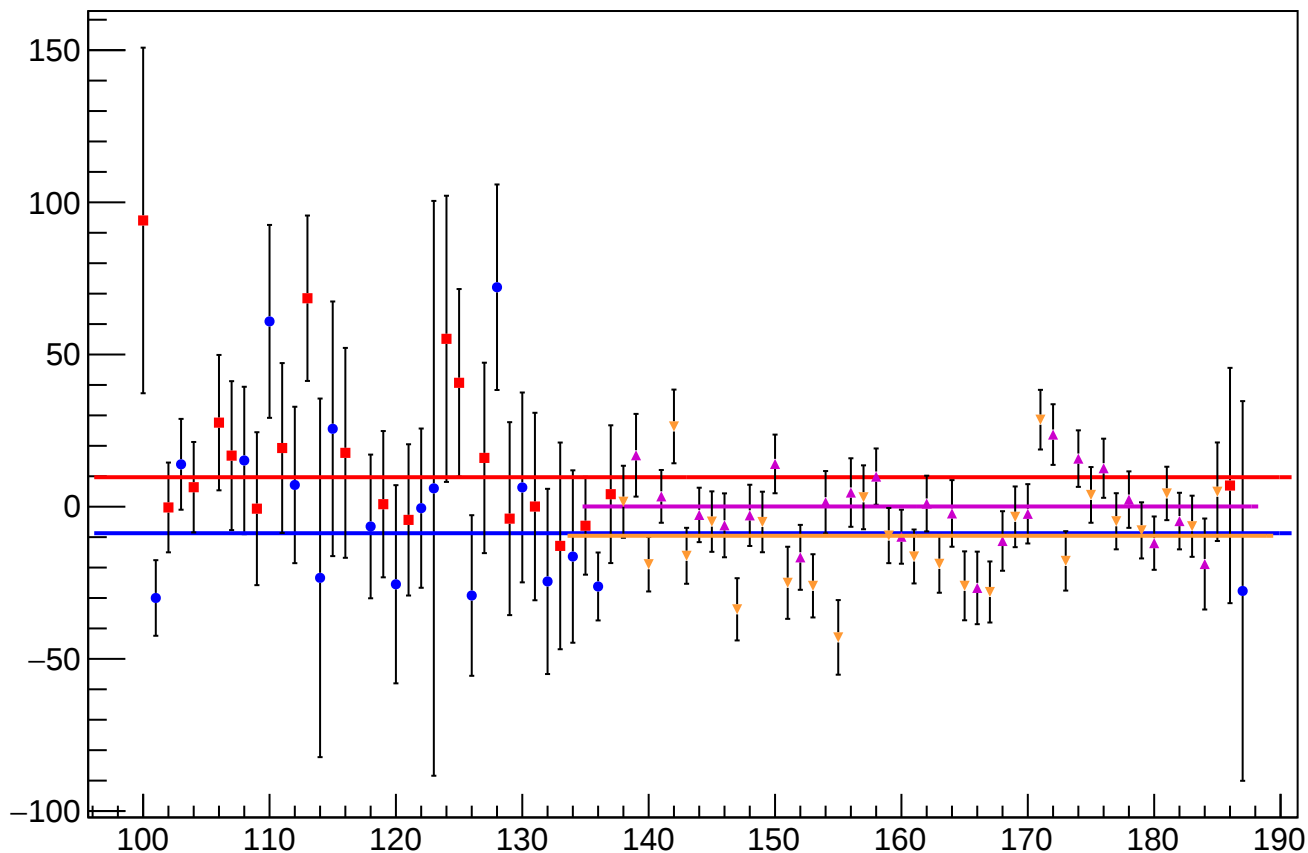
Right: 6847.357+/-1.334 χ^2/NDF : 1968451.6/37

In: 6629.663+/-0.967 χ^2/NDF : 1217366.5/40

Out: 6543.452+/-0.929 χ^2/NDF : 1770161.7/44

All: 6584.821+/-0.670 χ^2/NDF : 2991658.2/85

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.714 $\pm$ 5.398 χ^2/NDF : 22.0/17

Left Out: -9.554 $\pm$ 2.012 χ^2/NDF : 59.5/24

Right Out: 9.687 $\pm$ 5.465 χ^2/NDF : 12.7/19

Left In: 0.072 $\pm$ 2.073 χ^2/NDF : 29.8/22

Left: -4.885 $\pm$ 1.444 χ^2/NDF : 100.5/47

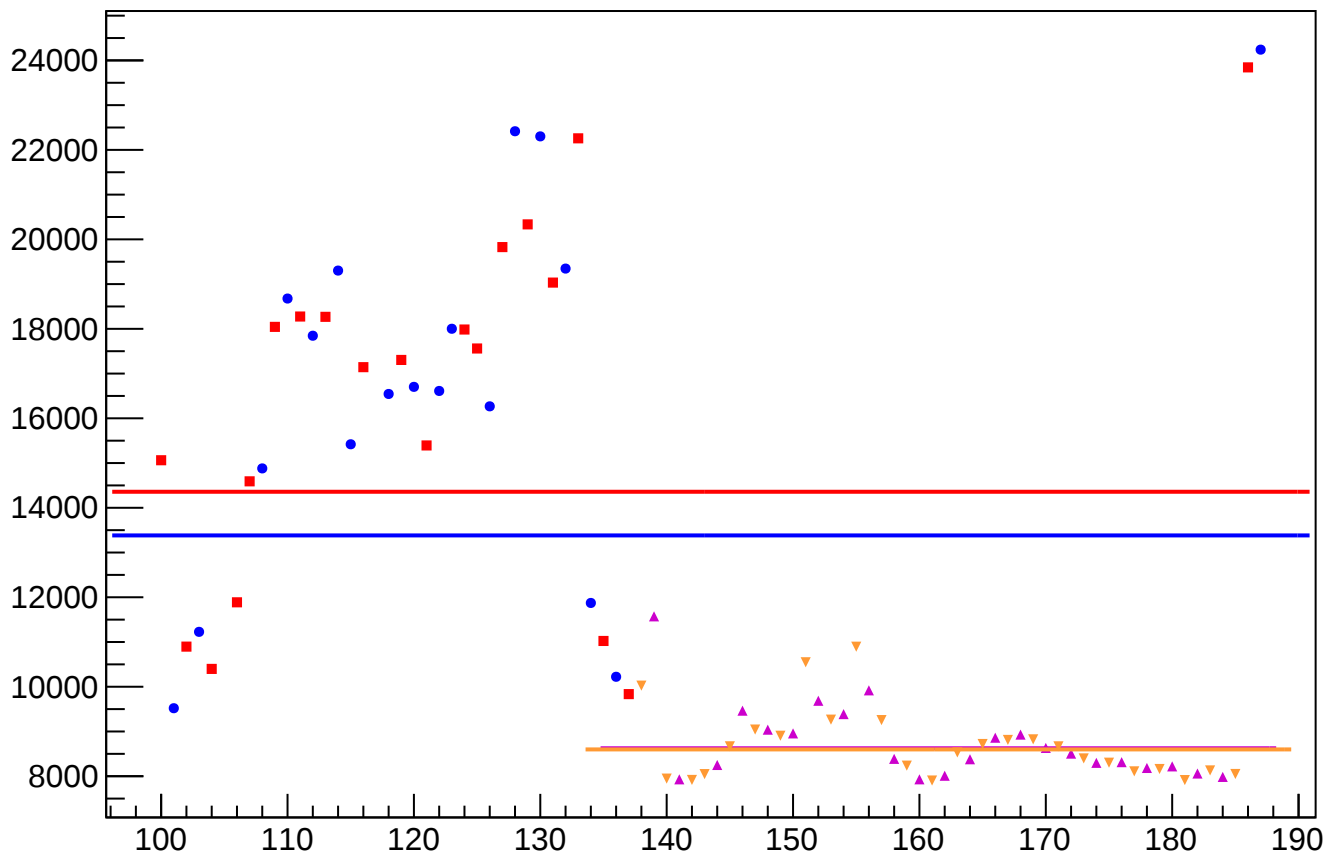
Right: 0.372 $\pm$ 3.841 χ^2/NDF : 40.4/37

In: -1.057 $\pm$ 1.935 χ^2/NDF : 54.1/40

Out: -7.258 $\pm$ 1.888 χ^2/NDF : 83.1/44

All: -4.234 $\pm$ 1.351 χ^2/NDF : 142.5/85

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: 14358.314 $\pm$ 3.865 χ^2 /NDF: 1054148.5/19

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

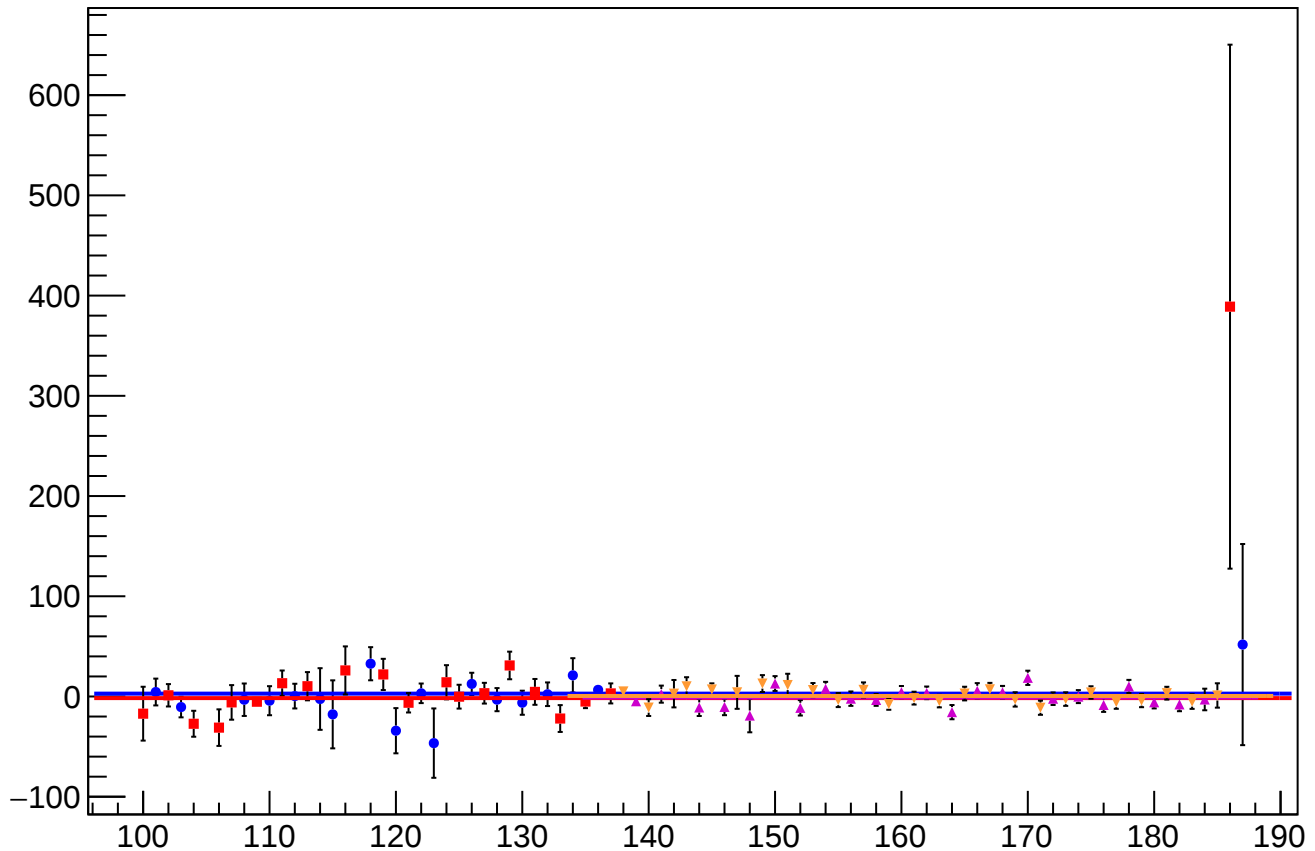
Right: 13864.307 $\pm$ 2.716 χ^2 /NDF: 2196366.7/37

In: 9236.436 $\pm$ 1.368 χ^2 /NDF:2700797.1/40

Out: 9286.185 $\pm$ 1.335 χ^2 /NDF:3259061.6/44

All: 9261.923 $\pm$ 0.956 χ^2 /NDF: 5960536.0/85

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: -1.609 ± 2.447 $\chi^2/\text{NDF}: 25.5/19$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

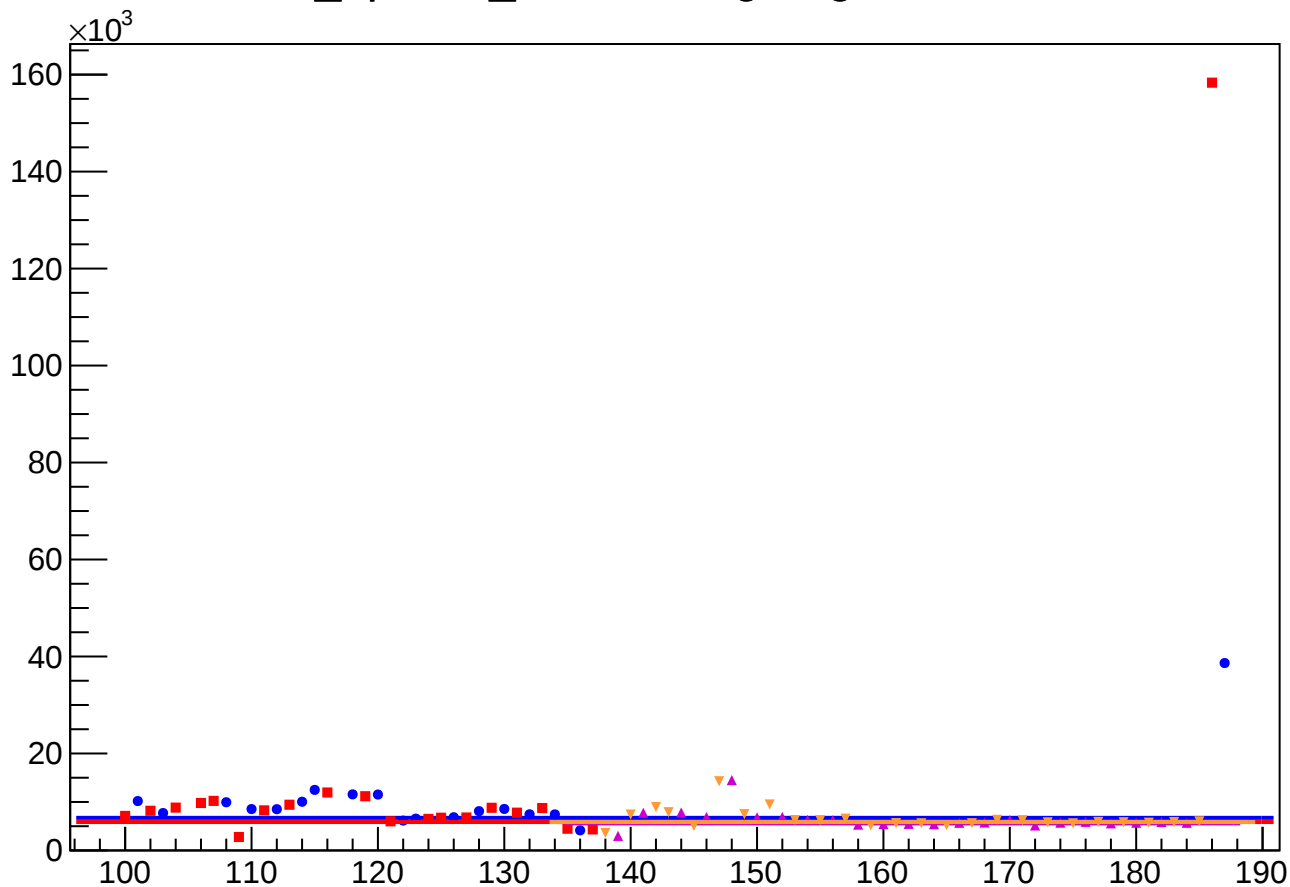
Right: 0.356 ± 1.832 $\chi^2/\text{NDF}: 41.2/37$

In: -0.255 ± 1.246 $\chi^2/\text{NDF}: 48.3/40$

Out: -0.009 ± 1.227 $\chi^2/\text{NDF}: 45.5/44$

All: -0.130 ± 0.874 $\chi^2/\text{NDF}: 93.9/85$

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: 5862.170 ± 1.730 $\chi^2/\text{NDF}: 2962525.5/19$

Left In: 5571.330 ± 0.987 $\chi^2/\text{NDF}: 2162788.3/22$

Left: 5713.698 ± 0.703 $\chi^2/\text{NDF}: 3895130.2/47$

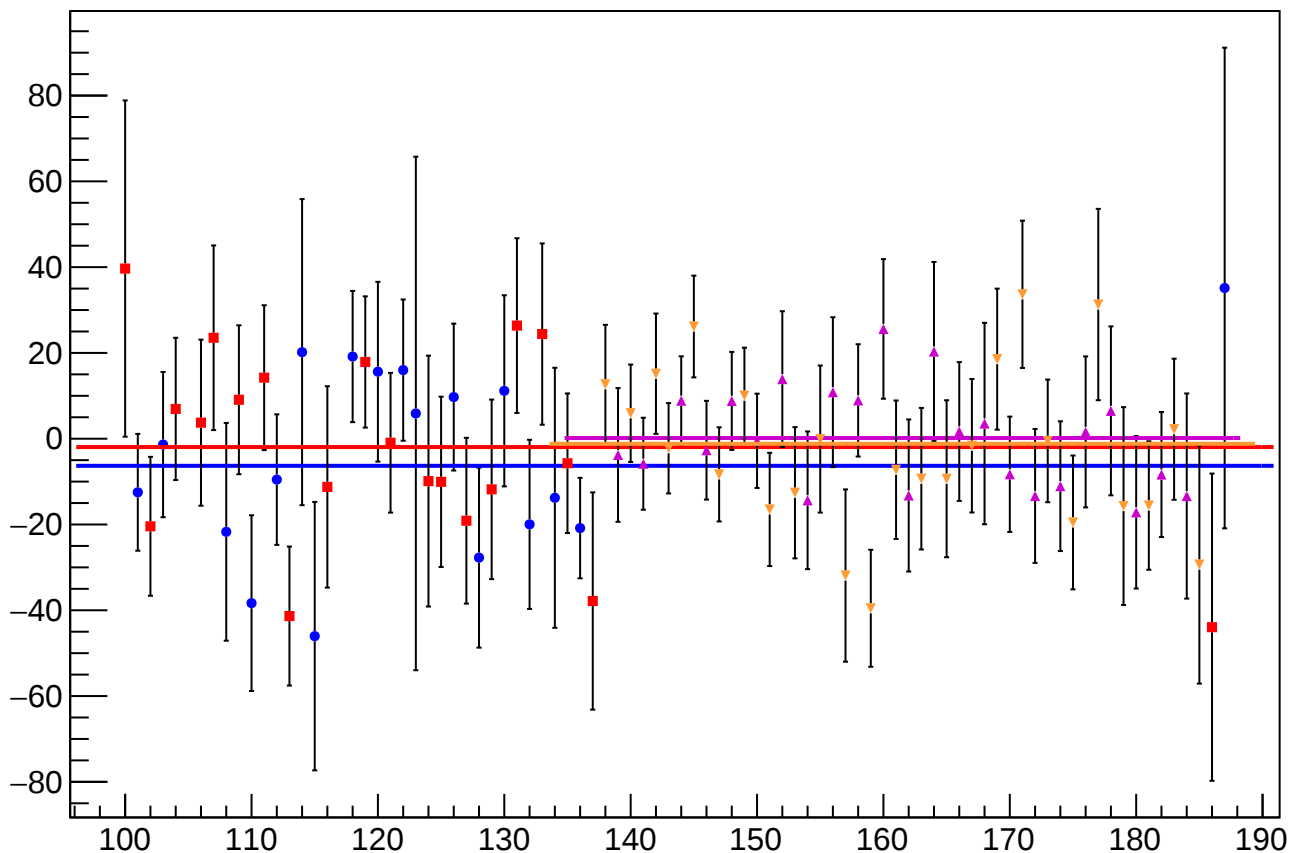
Right: 6242.594 ± 1.295 $\chi^2/\text{NDF}: 4664504.3/37$

In: 5806.433 ± 0.881 $\chi^2/\text{NDF}: 4033914.3/40$

Out: 5860.999 ± 0.867 $\chi^2/\text{NDF}: 4652575.3/44$

All: 5834.132 ± 0.618 $\chi^2/\text{NDF}: 8688438.1/85$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -6.318 ± 4.544 χ^2/NDF : 16.2/17

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -1.948 ± 4.350 χ^2/NDF : 21.5/19

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

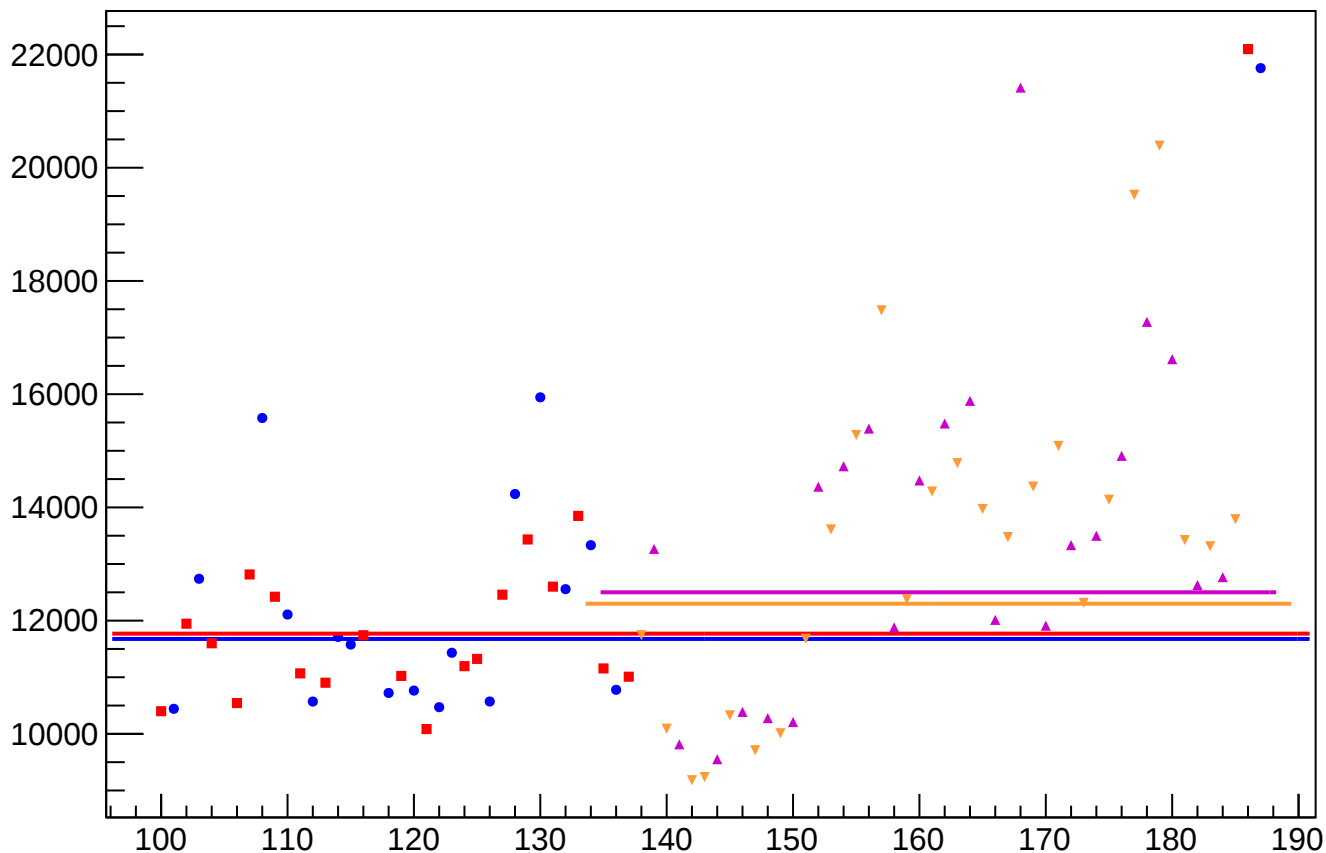
Right: -4.037 ± 3.142 χ^2/NDF : 38.2/37

In: -1.861 ± 2.537 χ^2/NDF : 29.1/40

Out: -1.422 ± 2.435 χ^2/NDF : 55.2/44

All: -1.633 ± 1.757 χ^2/NDF : 84.3/85

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: 11725.415+/-2.222 χ^2/NDF : 568073.0/37

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

In: 12243.896+/-1.794 χ^2/NDF : 1706495.2/40

Right Out: 11770.150+/-3.076 χ^2/NDF : 264308.1/19

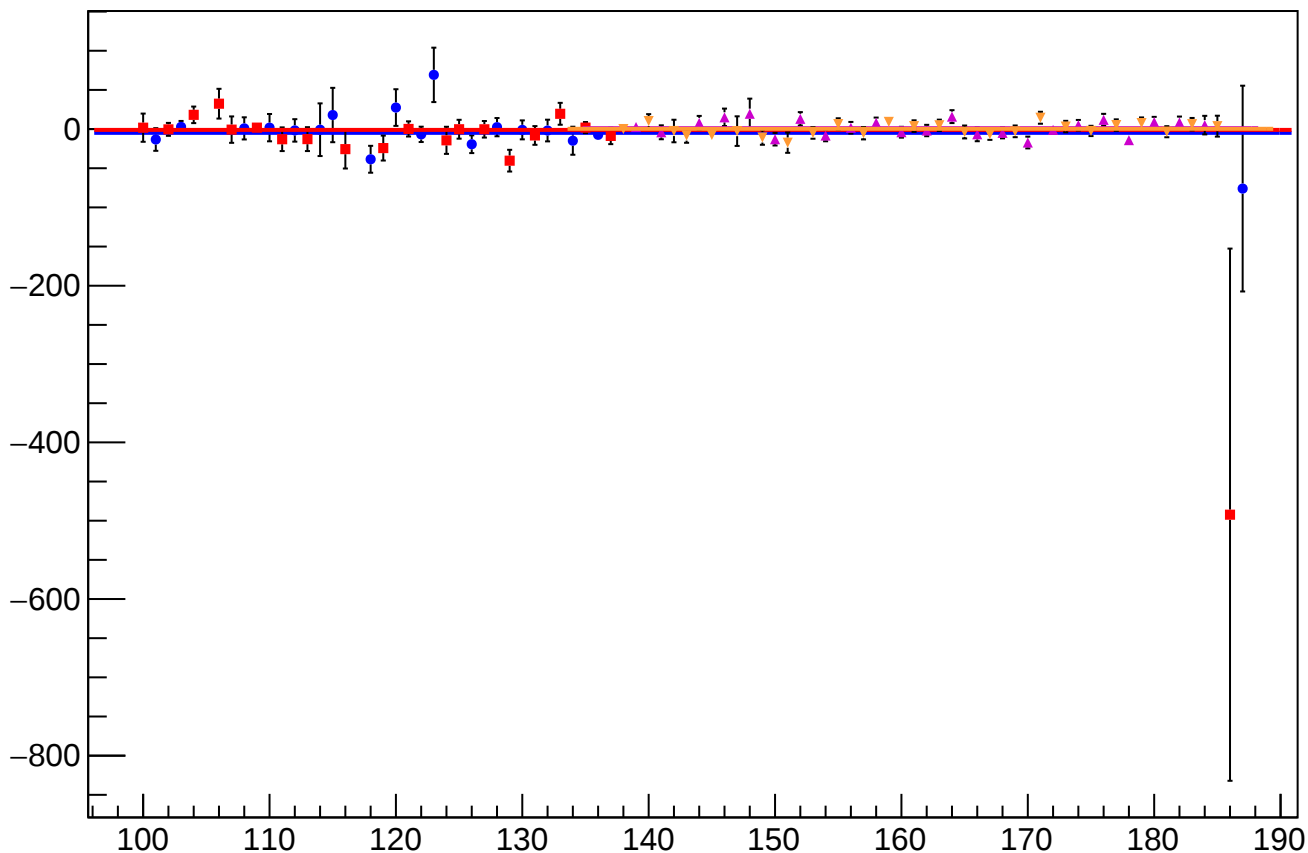
Out: 12133.039+/-1.722 χ^2/NDF : 1790607.0/44

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

All: 12186.197+/-1.242 χ^2/NDF : 3499089.7/8

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.808 ± 2.787 $\chi^2/\text{NDF}: 15.6/17$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: -1.057 ± 2.434 $\chi^2/\text{NDF}: 25.1/19$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

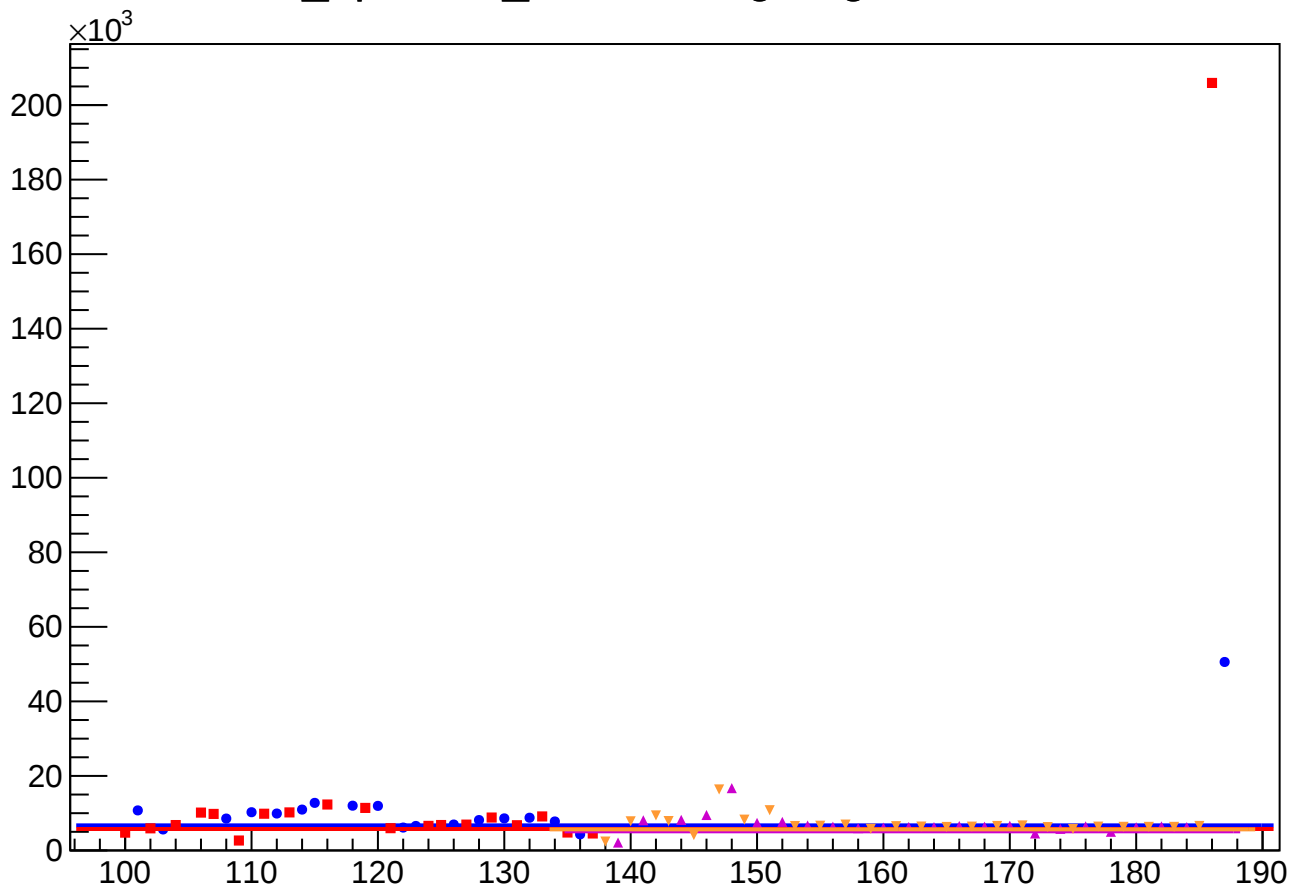
Right: -2.680 ± 1.833 $\chi^2/\text{NDF}: 41.7/37$

In: 0.000 ± 1.230 $\chi^2/\text{NDF}: 52.9/40$

Out: -0.010 ± 1.235 $\chi^2/\text{NDF}: 44.5/44$

All: -0.005 ± 0.872 $\chi^2/\text{NDF}: 97.4/85$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6731.523+/-1.971 χ^2/NDF : 1669210.4/17

Left Out: 5659.441+/-1.014 χ^2/NDF : 4128583.6/24

Right Out: 5759.850+/-1.721 χ^2/NDF : 2861902.2/19

Left In: 5137.772+/-0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078+/-0.701 χ^2/NDF : 9762498.7/47

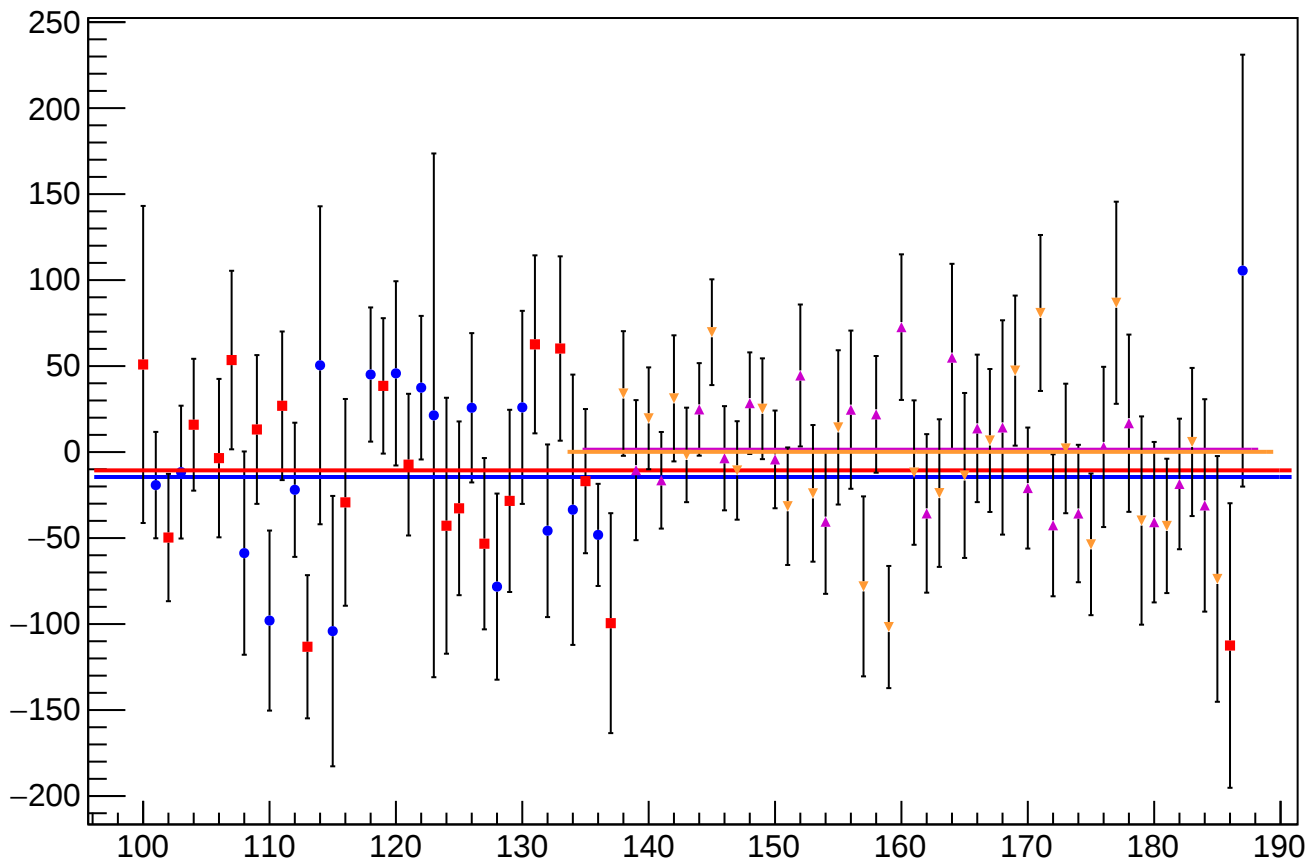
Right: 6180.241+/-1.296 χ^2/NDF : 4669067.9/37

In: 5448.492+/-0.870 χ^2/NDF : 7691445.2/40

Out: 5685.305+/-0.873 χ^2/NDF : 6993013.6/44

All: 5566.456+/-0.616 χ^2/NDF : 14721360.6/80

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: -10.637 ± 10.820 χ^2/NDF : 20.8/19

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

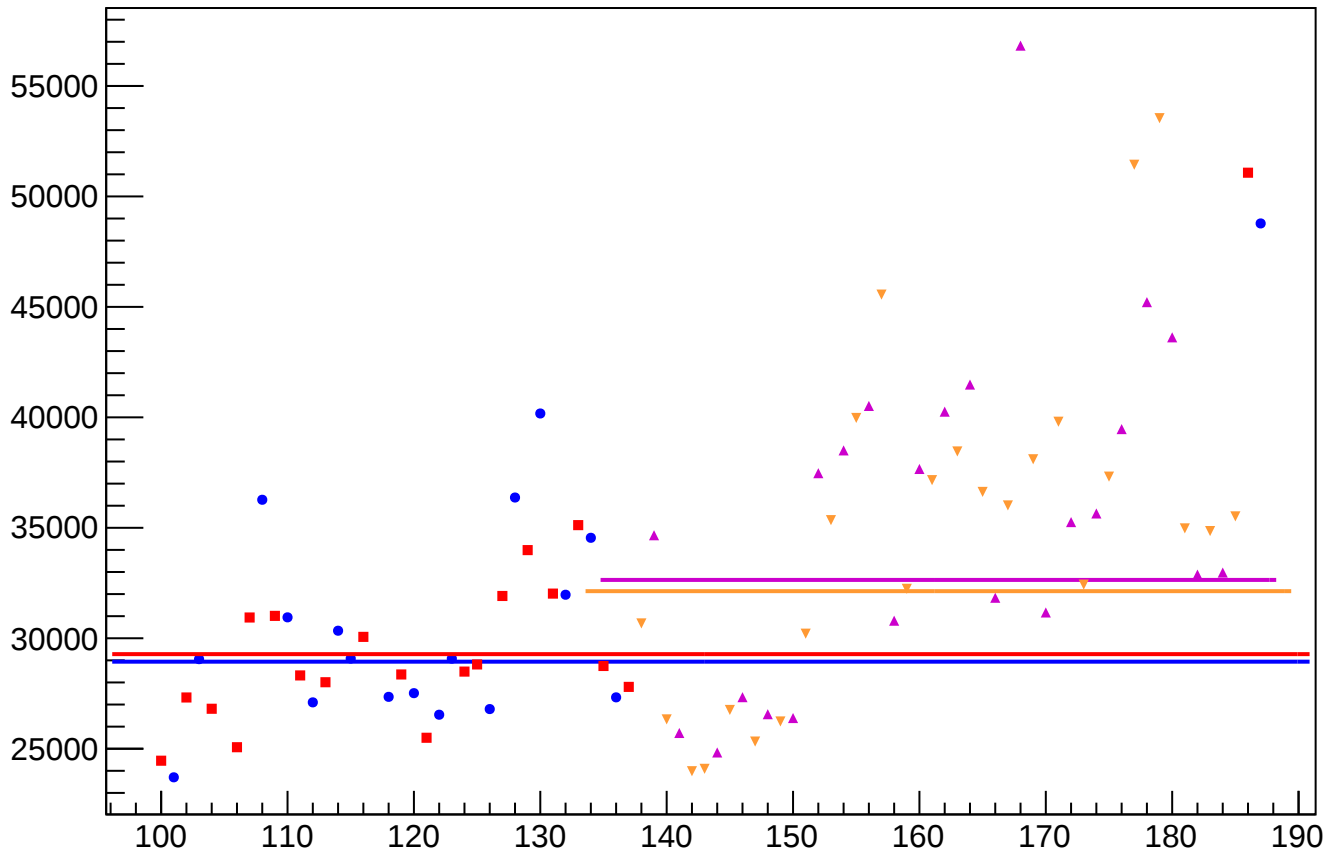
Right: -12.489 ± 7.806 χ^2/NDF : 36.5/37

In: -3.935 ± 6.519 χ^2/NDF : 30.2/40

Out: -3.471 ± 6.265 χ^2/NDF : 52.8/44

All: -3.694 ± 4.517 χ^2/NDF : 82.9/85

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28940.354 ± 7.970

χ^2/NDF : $303289.6/17$

Left: 32376.774 ± 3.916 χ^2/NDF : $2946456.2/47$

Right: 29117.967 ± 5.519 χ^2/NDF : $558123.5/37$

Left Out: 32132.314 ± 5.433

χ^2/NDF : $1540079.4/24$

In: 31403.426 ± 4.609 χ^2/NDF : $1848944.9/40$

Right Out: 29281.634 ± 7.651

χ^2/NDF : $253879.8/19$

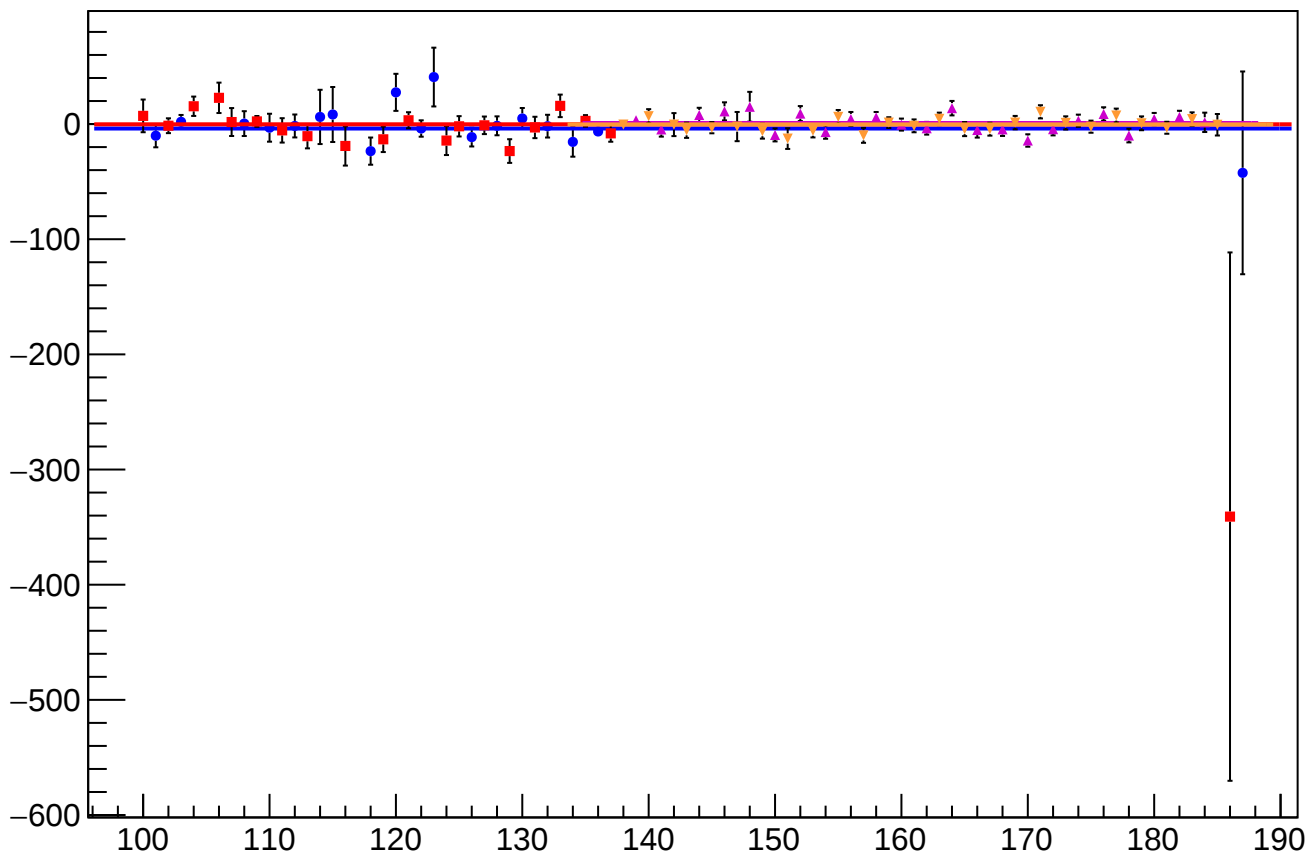
Out: 31176.741 ± 4.430 χ^2/NDF : $1886248.3/44$

Left In: 32641.162 ± 5.650

χ^2/NDF : $1402162.4/22$

All: 31285.580 ± 3.194 χ^2/NDF : $3736450.6/86$

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.881 ± 2.013 $\chi^2/\text{NDF}: 15.1/17$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: -0.209 ± 1.897 $\chi^2/\text{NDF}: 24.1/19$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

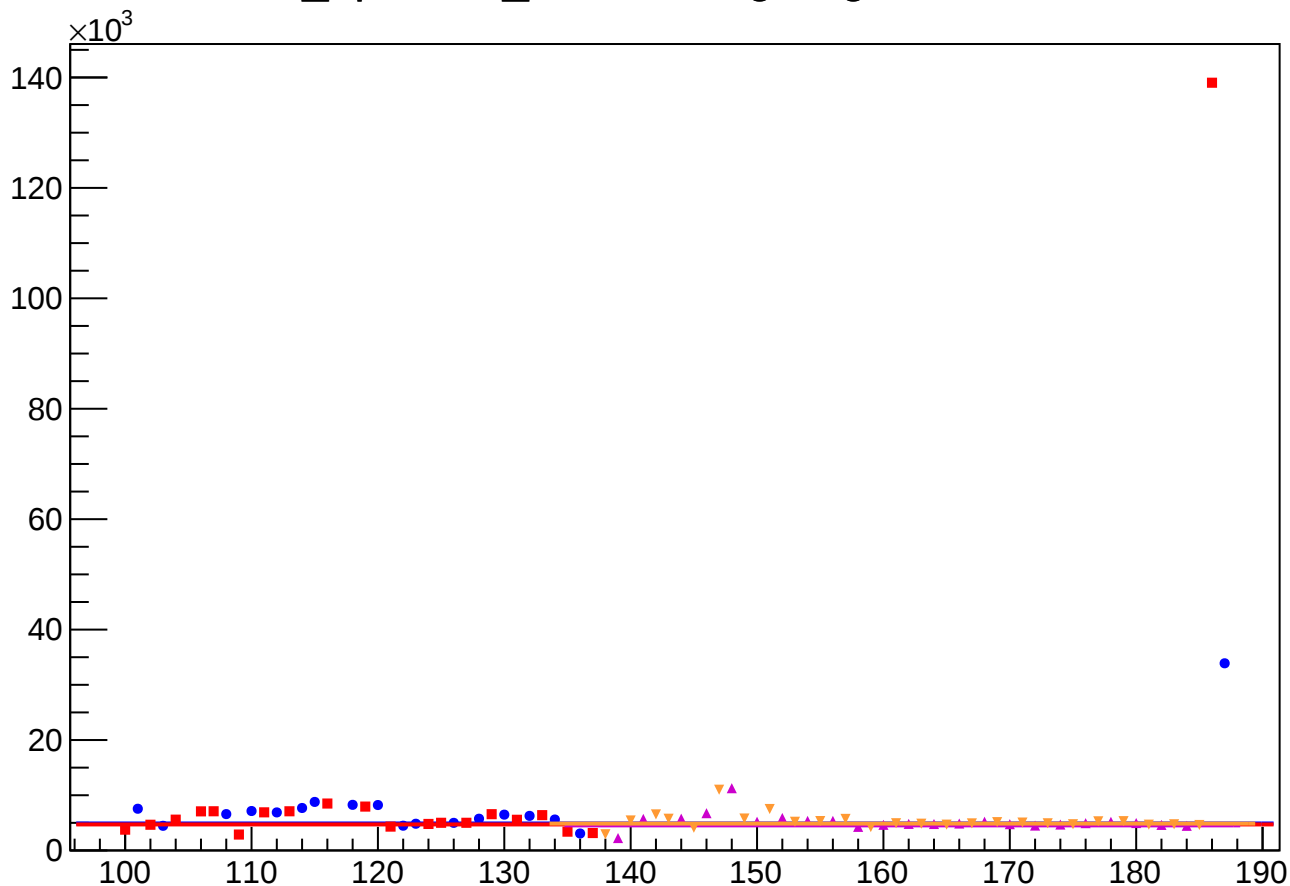
Right: -1.936 ± 1.381 $\chi^2/\text{NDF}: 41.0/37$

In: -0.258 ± 0.993 $\chi^2/\text{NDF}: 55.6/40$

Out: -0.284 ± 0.997 $\chi^2/\text{NDF}: 41.7/44$

All: -0.271 ± 0.704 $\chi^2/\text{NDF}: 97.3/85$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4887.520 $\pm$ 1.424 χ^2/NDF : 1621900.7/17

Left Out: 4868.567 $\pm$ 0.829 χ^2/NDF : 1511151.0/24

Right Out: 4712.851 $\pm$ 1.341 χ^2/NDF : 2001540.4/19

Left In: 4544.337 $\pm$ 0.808 χ^2/NDF : 2634314.4/22

Left: 4702.320 $\pm$ 0.578 χ^2/NDF : 4223993.0/47

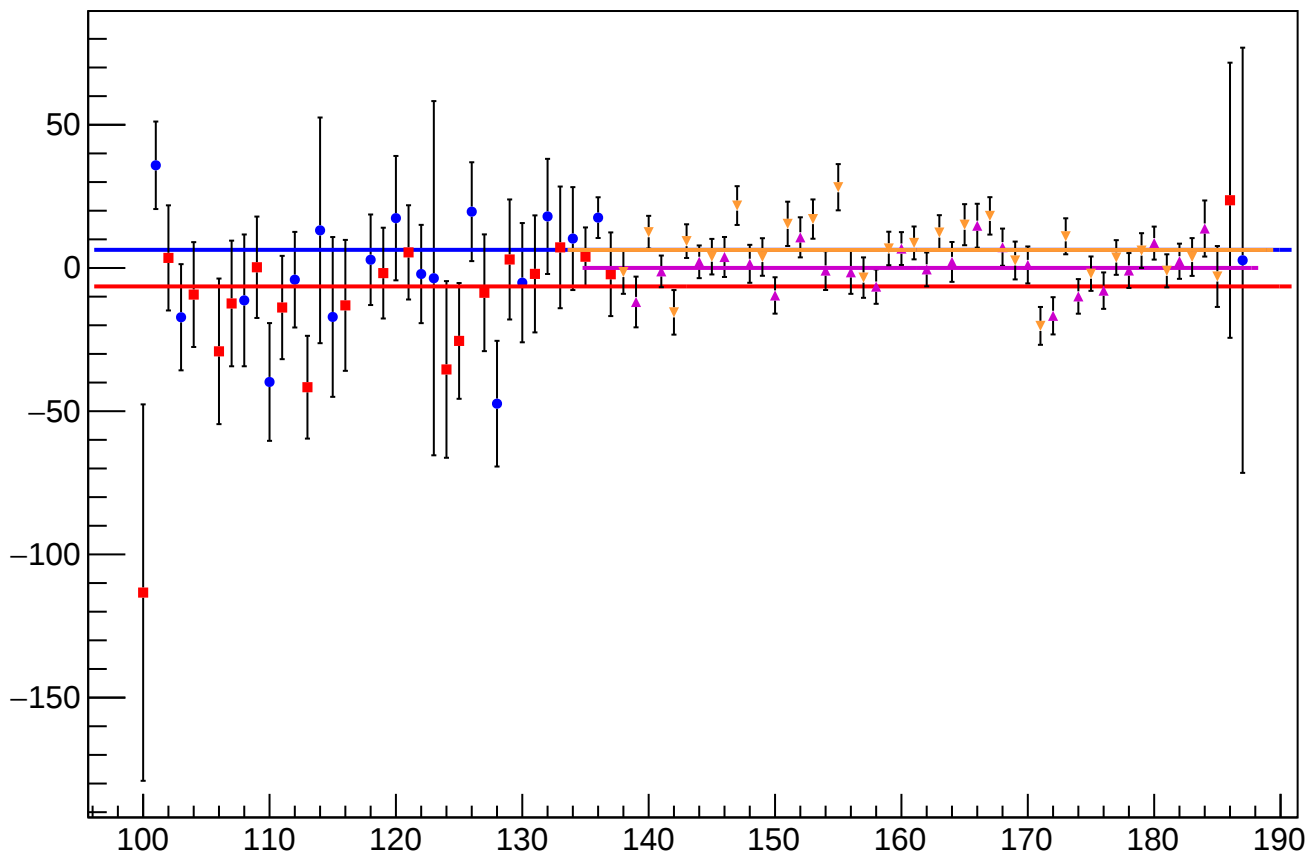
Right: 4794.981 $\pm$ 0.976 χ^2/NDF : 3631416.2/37

In: 4627.894 $\pm$ 0.702 χ^2/NDF : 4300176.4/40

Out: 4825.559 $\pm$ 0.705 χ^2/NDF : 3522448.1/44

All: 4726.392 $\pm$ 0.498 χ^2/NDF : 7862078.3/85

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.337 ± 4.082 $\chi^2/\text{NDF}: 22.4/17$

Left Out: 6.296 ± 1.310 $\chi^2/\text{NDF}: 56.5/24$

Right Out: -6.435 ± 4.216 $\chi^2/\text{NDF}: 12.6/19$

Left In: 0.020 ± 1.353 $\chi^2/\text{NDF}: 29.9/22$

Left: 3.259 ± 0.941 $\chi^2/\text{NDF}: 97.5/47$

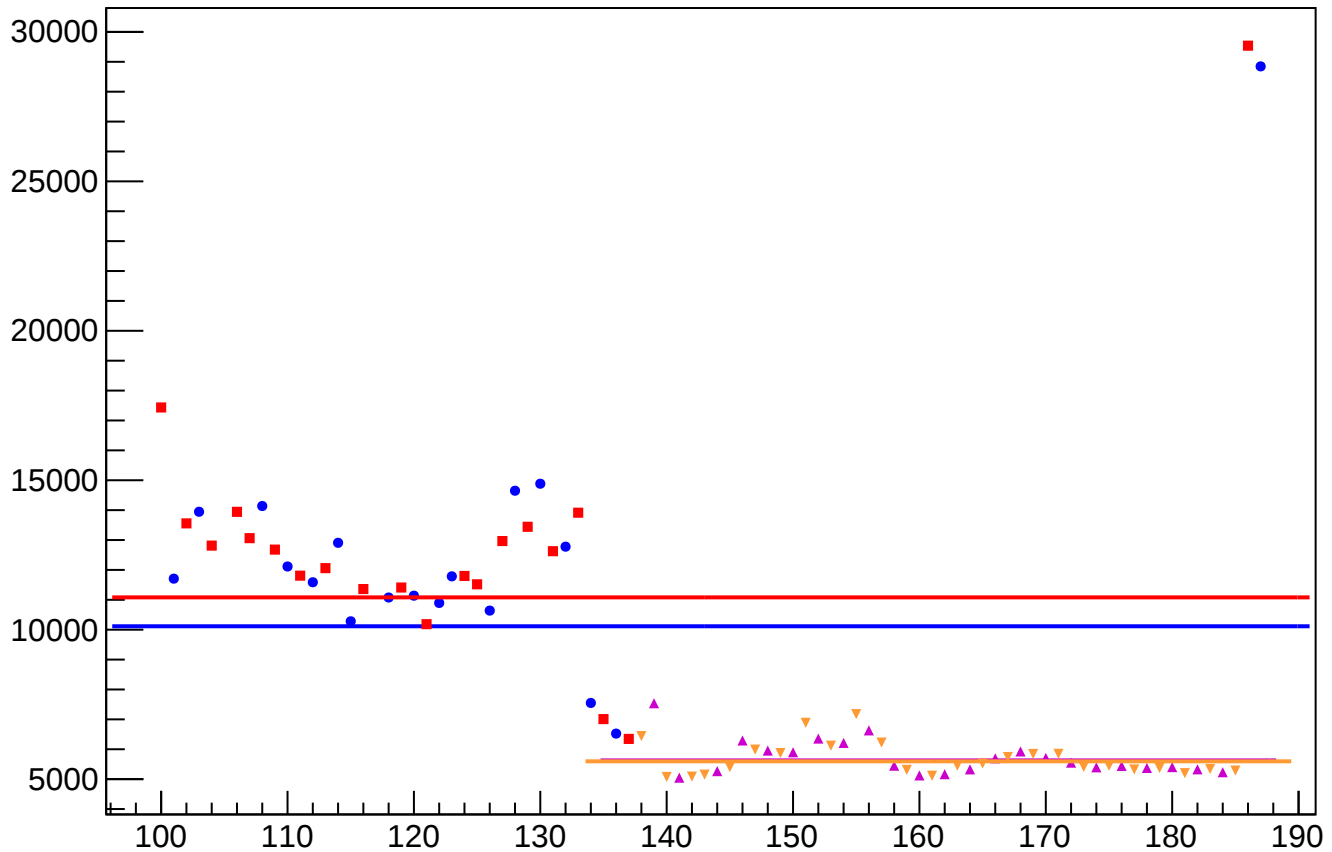
Right: 0.157 ± 2.933 $\chi^2/\text{NDF}: 39.8/37$

In: 0.646 ± 1.284 $\chi^2/\text{NDF}: 54.5/40$

Out: 5.175 ± 1.251 $\chi^2/\text{NDF}: 77.5/44$

All: 2.969 ± 0.896 $\chi^2/\text{NDF}: 138.4/85$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10114.570+/-2.887 χ^2/NDF : 1135419.7/17

Left Out: 5596.370+/-0.926 χ^2/NDF : 283998.1/24

Right Out: 11081.340+/-2.981 χ^2/NDF : 1061769.5/19

Left In: 5627.283+/-0.957 χ^2/NDF : 279318.7/22

Left: 5611.329+/-0.666 χ^2/NDF : 563855.6/47

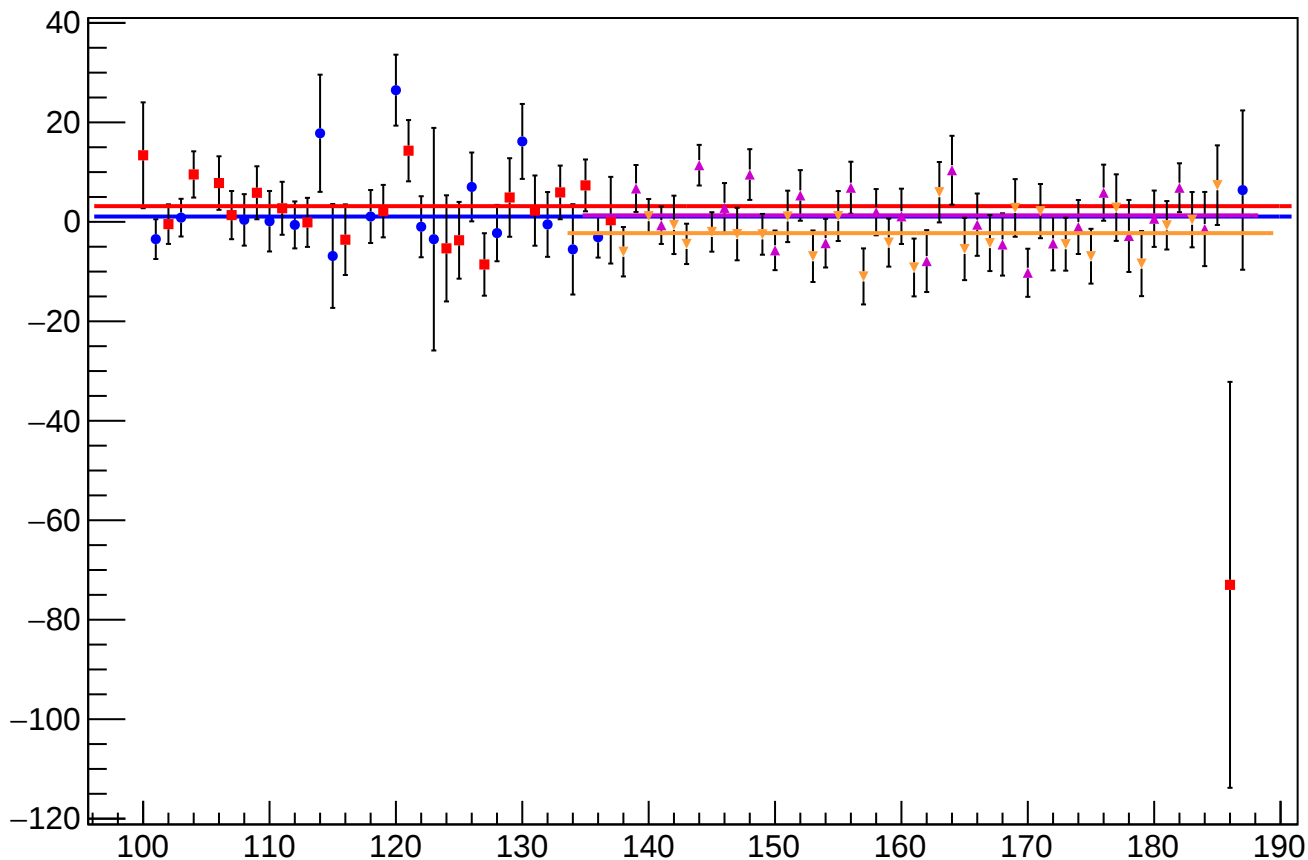
Right: 10582.386+/-2.074 χ^2/NDF : 2251466.5/37

In: 6071.459+/-0.908 χ^2/NDF : 3592046.9/40

Out: 6079.434+/-0.885 χ^2/NDF : 4432828.6/44

All: 6075.551+/-0.634 χ^2/NDF : 8024915.1/85

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.065 ± 1.400 $\chi^2/\text{NDF}: 23.7/17$

Left Out: -2.268 ± 1.029 $\chi^2/\text{NDF}: 15.4/24$

Right Out: 3.153 ± 1.335 $\chi^2/\text{NDF}: 18.9/19$

Left In: 1.305 ± 1.077 $\chi^2/\text{NDF}: 30.8/22$

Left: -0.562 ± 0.744 $\chi^2/\text{NDF}: 51.9/47$

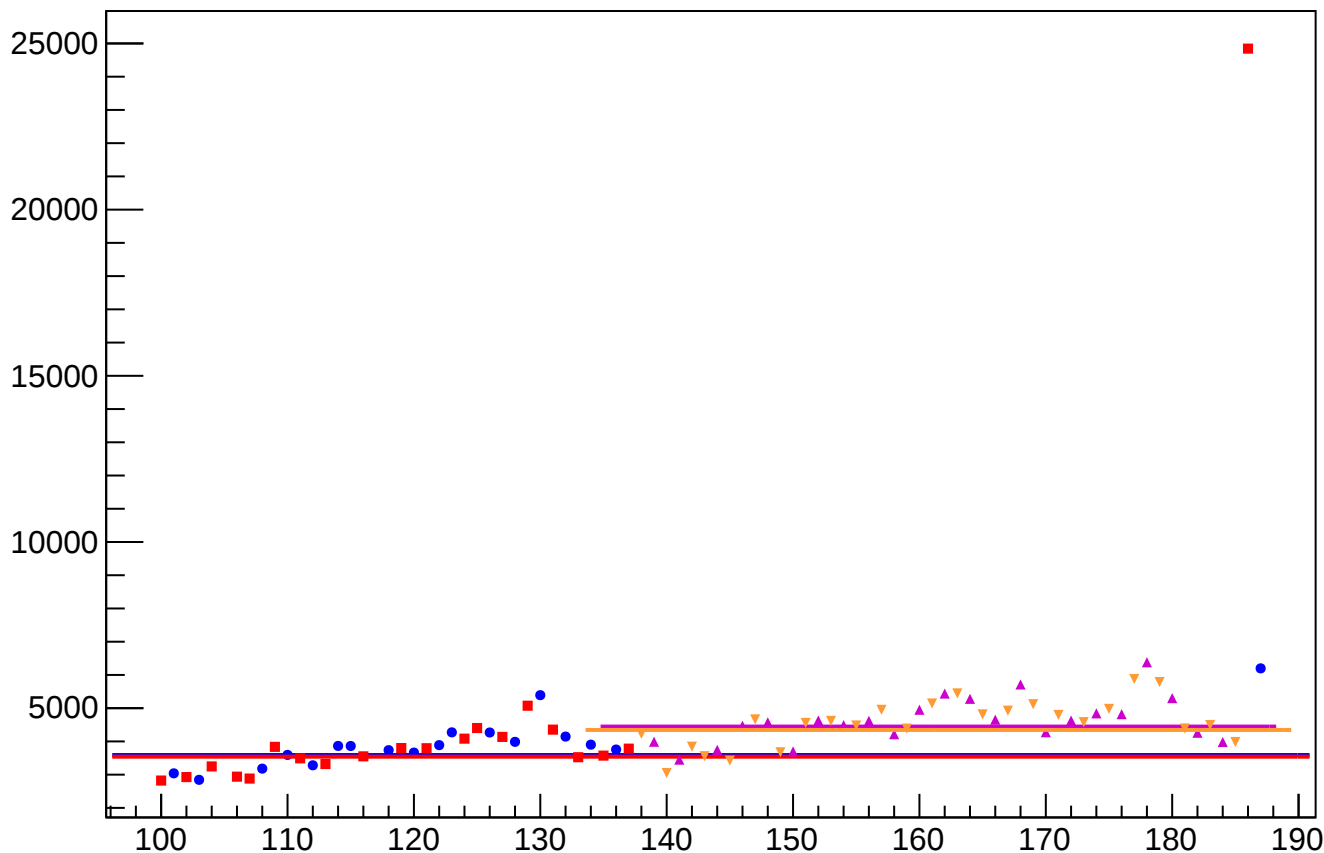
Right: 2.159 ± 0.966 $\chi^2/\text{NDF}: 43.8/37$

In: 1.216 ± 0.854 $\chi^2/\text{NDF}: 54.6/40$

Out: -0.246 ± 0.815 $\chi^2/\text{NDF}: 44.6/44$

All: 0.451 ± 0.590 $\chi^2/\text{NDF}: 100.7/85$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3590.265+/-0.990 χ^2/NDF : 363738.3/17

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 3541.042+/-0.944 χ^2/NDF : 841965.8/19

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

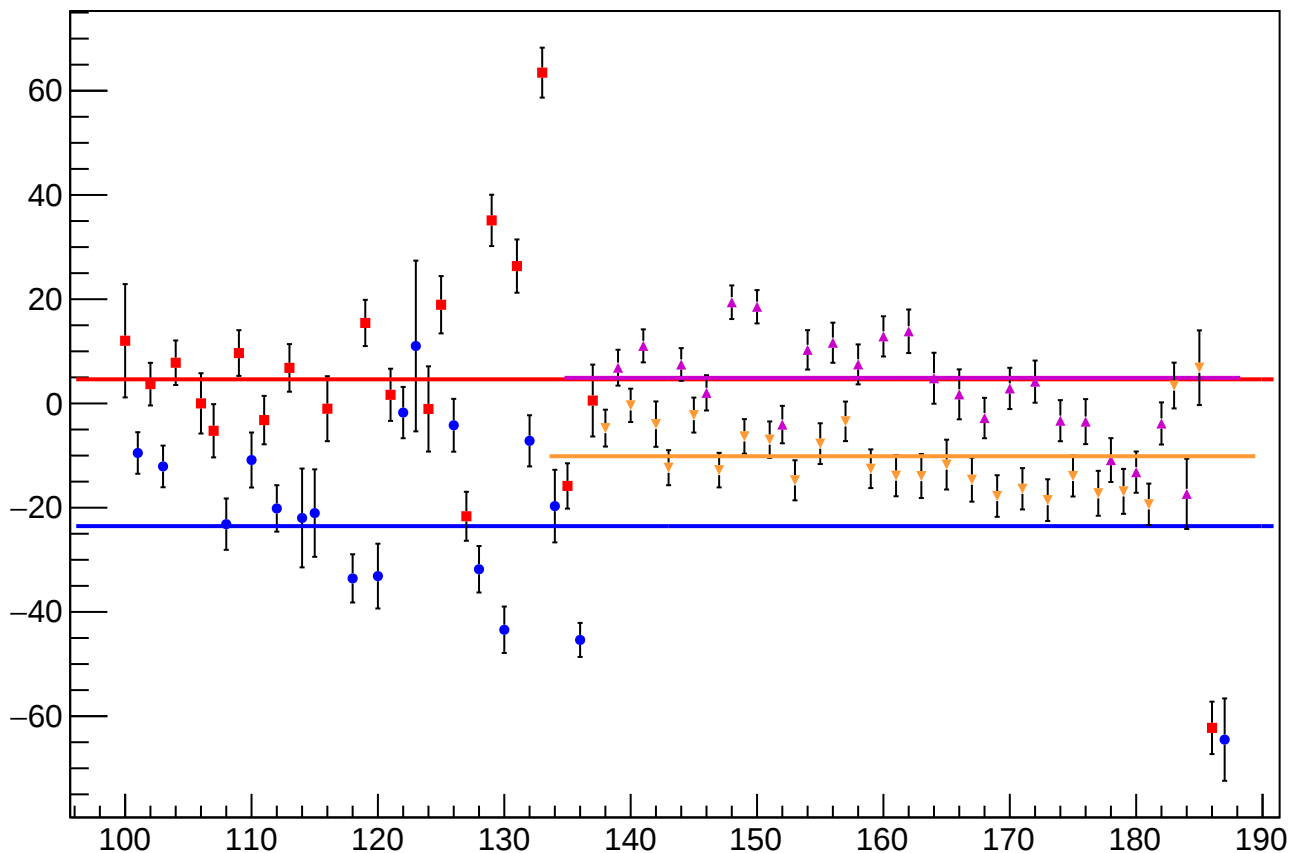
Right: 3564.486+/-0.683 χ^2/NDF : 1206999.0/37

In: 4127.928+/-0.604 χ^2/NDF : 1536170.0/40

Out: 4045.454+/-0.576 χ^2/NDF : 2297888.7/44

All: 4084.793+/-0.417 χ^2/NDF : 3843822.7/85

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -23.537 $\pm$ 1.189 χ^2/NDF : 179.1/17

Left Out: -10.125 $\pm$ 0.775 χ^2/NDF : 67.9/24

Right Out: 4.629 $\pm$ 1.129 χ^2/NDF : 461.9/19

Left In: 4.911 $\pm$ 0.797 χ^2/NDF : 127.9/22

Left: -2.814 $\pm$ 0.556 χ^2/NDF : 378.7/47

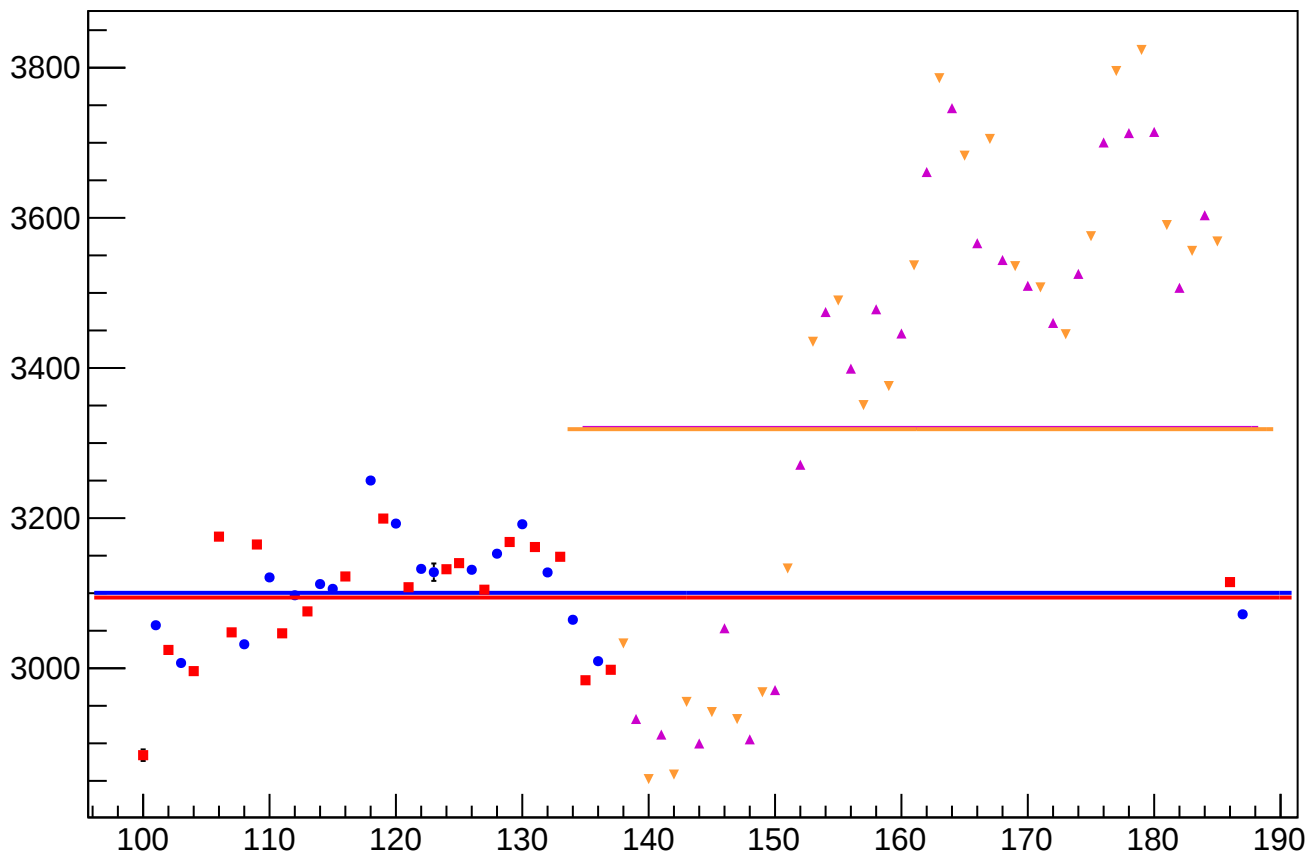
Right: -8.730 $\pm$ 0.819 χ^2/NDF : 936.0/37

In: -3.911 $\pm$ 0.662 χ^2/NDF : 702.0/40

Out: -5.397 $\pm$ 0.639 χ^2/NDF : 645.8/44

All: -4.680 $\pm$ 0.460 χ^2/NDF : 1350.5/85

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: 3094.244 $\pm$ 0.799 χ^2 /NDF: 7840.3/19

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

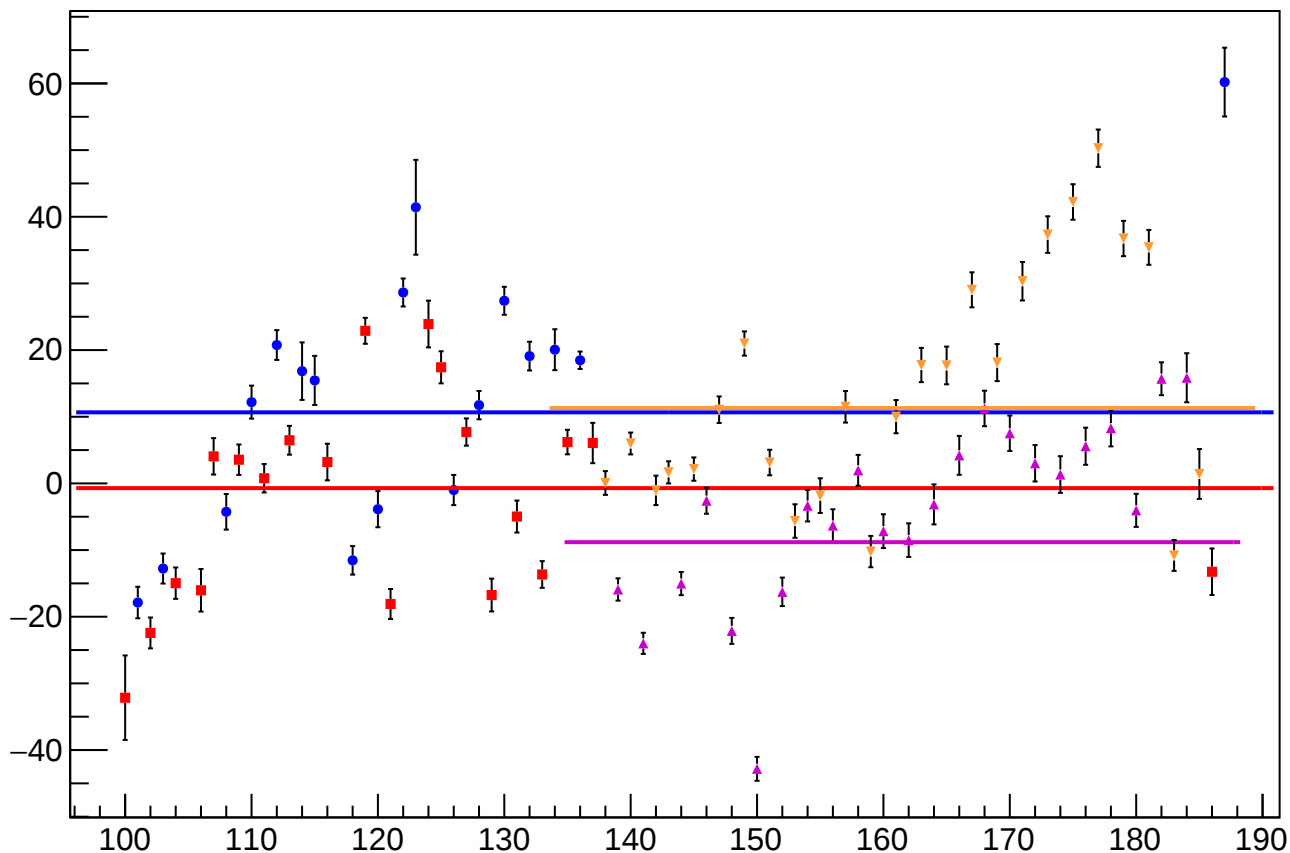
Right: 3097.208 $\pm$ 0.579 χ^2 /NDF: 15121.6/37

In: 3252.044 $\pm$ 0.468 χ^2 /NDF:341992.9/40

Out: 3246.646 $\pm$ 0.452 χ^2 /NDF:399133.4/44

All: 3249.250 $\pm$ 0.325 χ^2 /NDF: 741195.2/85

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: -0.706 ± 0.541 $\chi^2/\text{NDF}: 642.2/19$

Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$

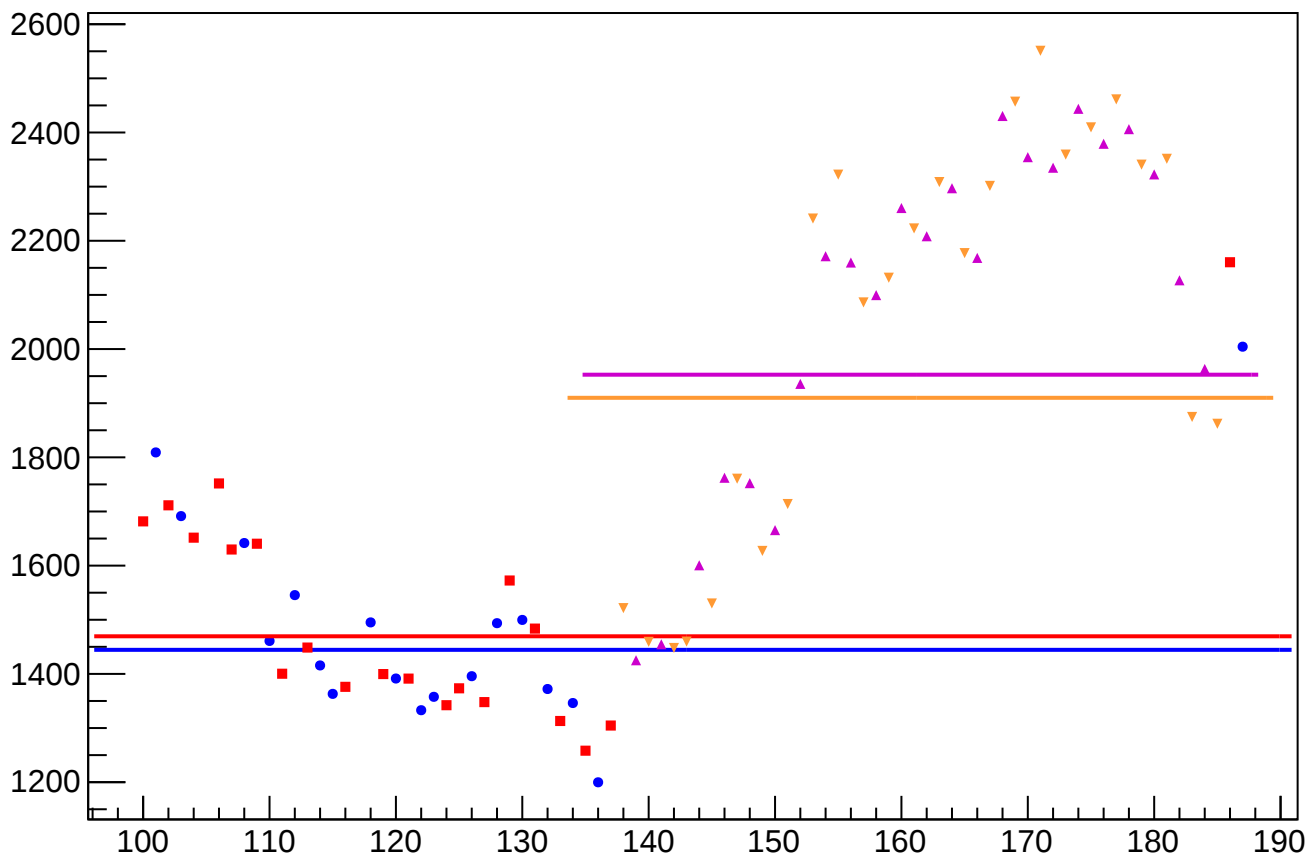
Right: 4.791 ± 0.389 $\chi^2/\text{NDF}: 1636.8/37$

In: -0.648 ± 0.362 $\chi^2/\text{NDF}: 2427.4/40$

Out: 6.347 ± 0.348 $\chi^2/\text{NDF}: 2075.6/44$

All: 2.992 ± 0.251 $\chi^2/\text{NDF}: 4697.1/85$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1444.453 $\pm$ 0.396 χ^2/NDF : 197010.1/17

Left Out: 1909.963 $\pm$ 0.321 χ^2/NDF :1399467.7/24

Right Out: 1469.470 $\pm$ 0.383 χ^2/NDF : 218691.8/19

Left In: 1952.637 $\pm$ 0.336 χ^2/NDF :1065333.8/22

Left: 1930.313 $\pm$ 0.232 χ^2/NDF : 2473233.3/47

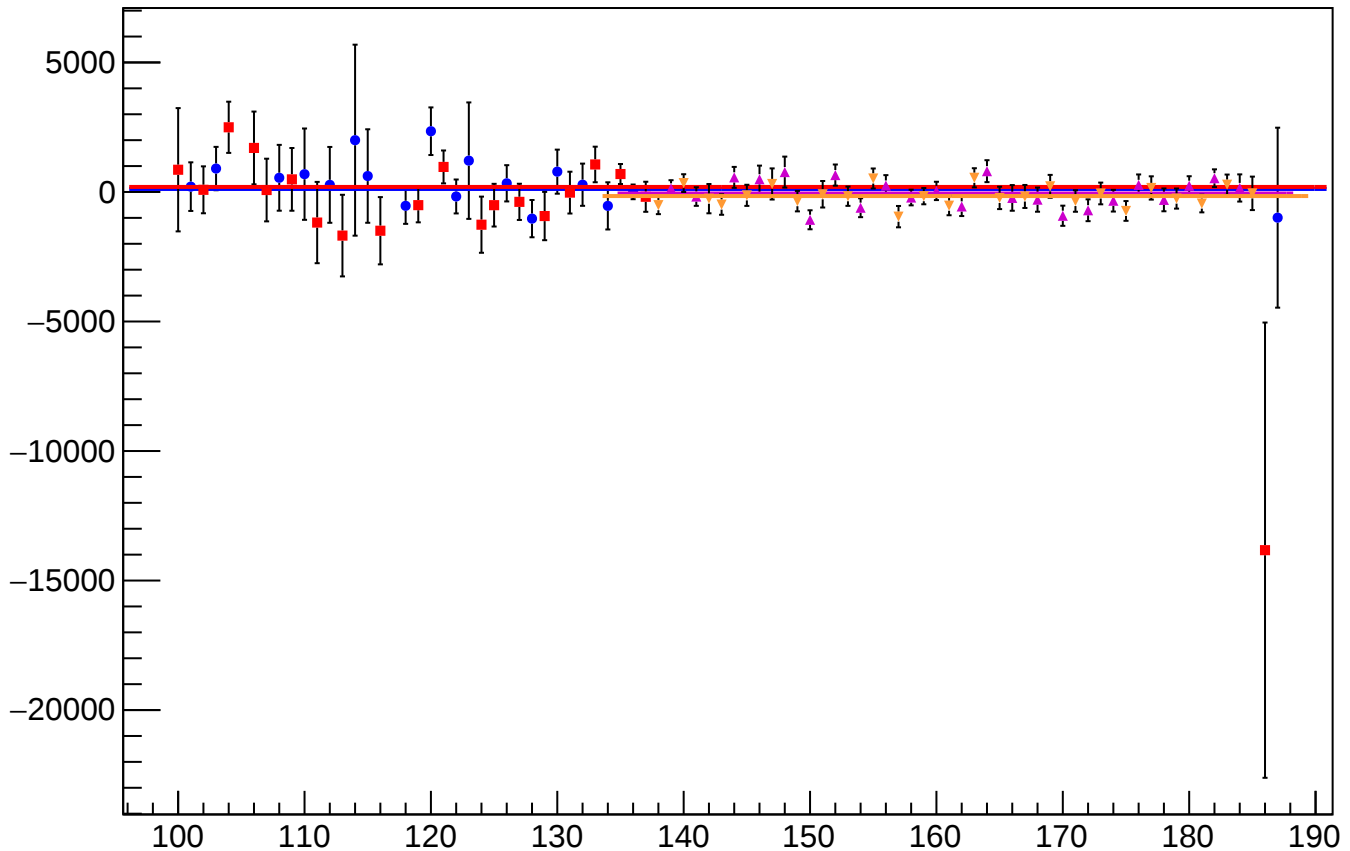
Right: 1457.371 $\pm$ 0.275 χ^2/NDF : 417767.7/37

In: 1739.523 $\pm$ 0.256 χ^2/NDF :2220871.6/40

Out: 1728.135 $\pm$ 0.246 χ^2/NDF :2395851.6/44

All: 1733.597 $\pm$ 0.177 χ^2/NDF : 4617751.8/85

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: 194.441 $\pm$ 184.748 χ^2/NDF : 24.2/19

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

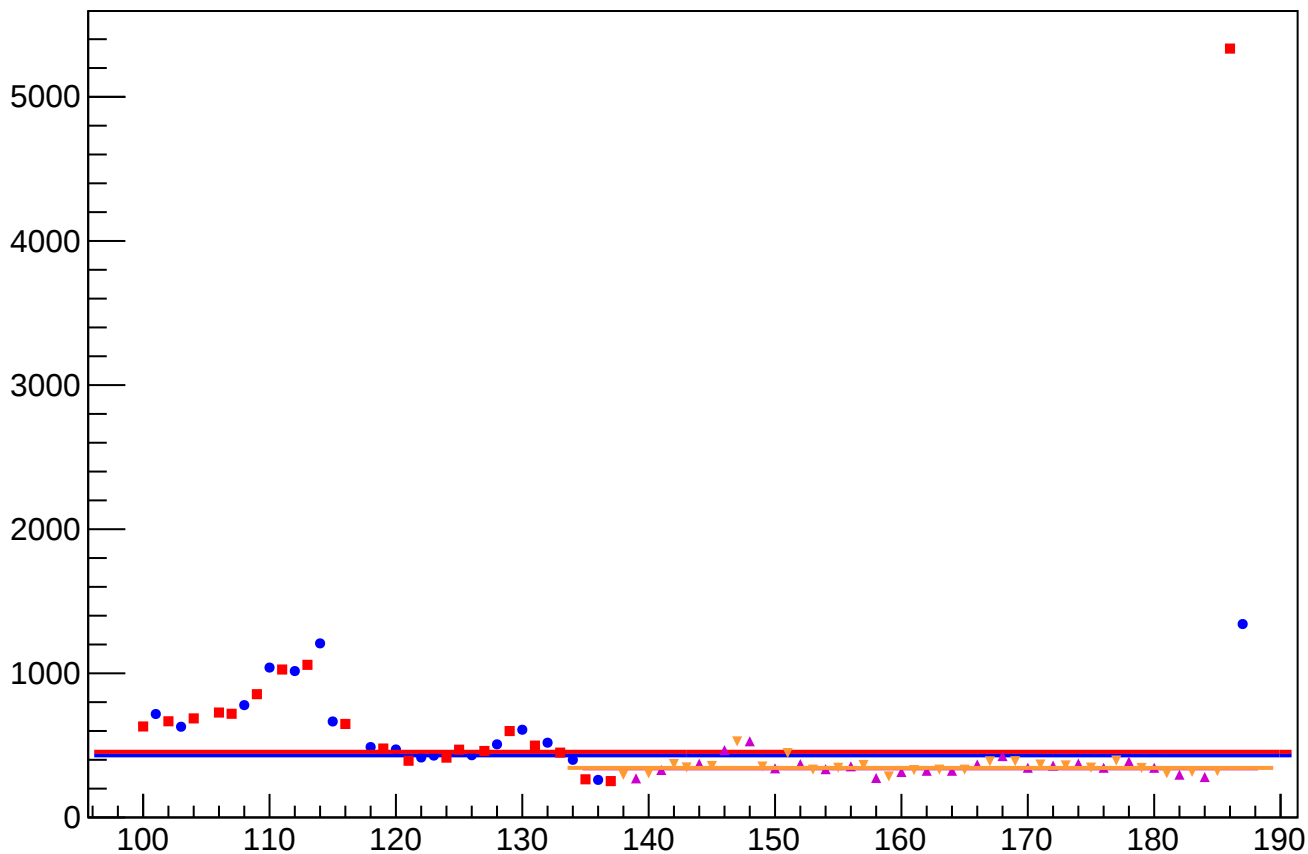
Right: 154.465 $\pm$ 129.056 χ^2/NDF : 37.0/37

In: -28.550 $\pm$ 75.087 χ^2/NDF :52.0/40

Out: -100.779 $\pm$ 74.026 χ^2/NDF :49.3/44

All: -65.178 $\pm$ 52.716 χ^2/NDF : 101.8/85

asym_sam1_rms vs Slug, Sign Corrected



Right In: 430.888 $\pm$ 0.128 χ^2 /NDF: 2144955.6/17

Left Out: 343.807 $\pm$ 0.057 χ^2 /NDF: 539431.0/24

Right Out: 455.736 $\pm$ 0.131 χ^2 /NDF: 2649268.8/19

Left In: 340.876 $\pm$ 0.058 χ^2 /NDF: 724672.0/22

Left: 342.374 $\pm$ 0.041 χ^2 /NDF: 1265389.7/47

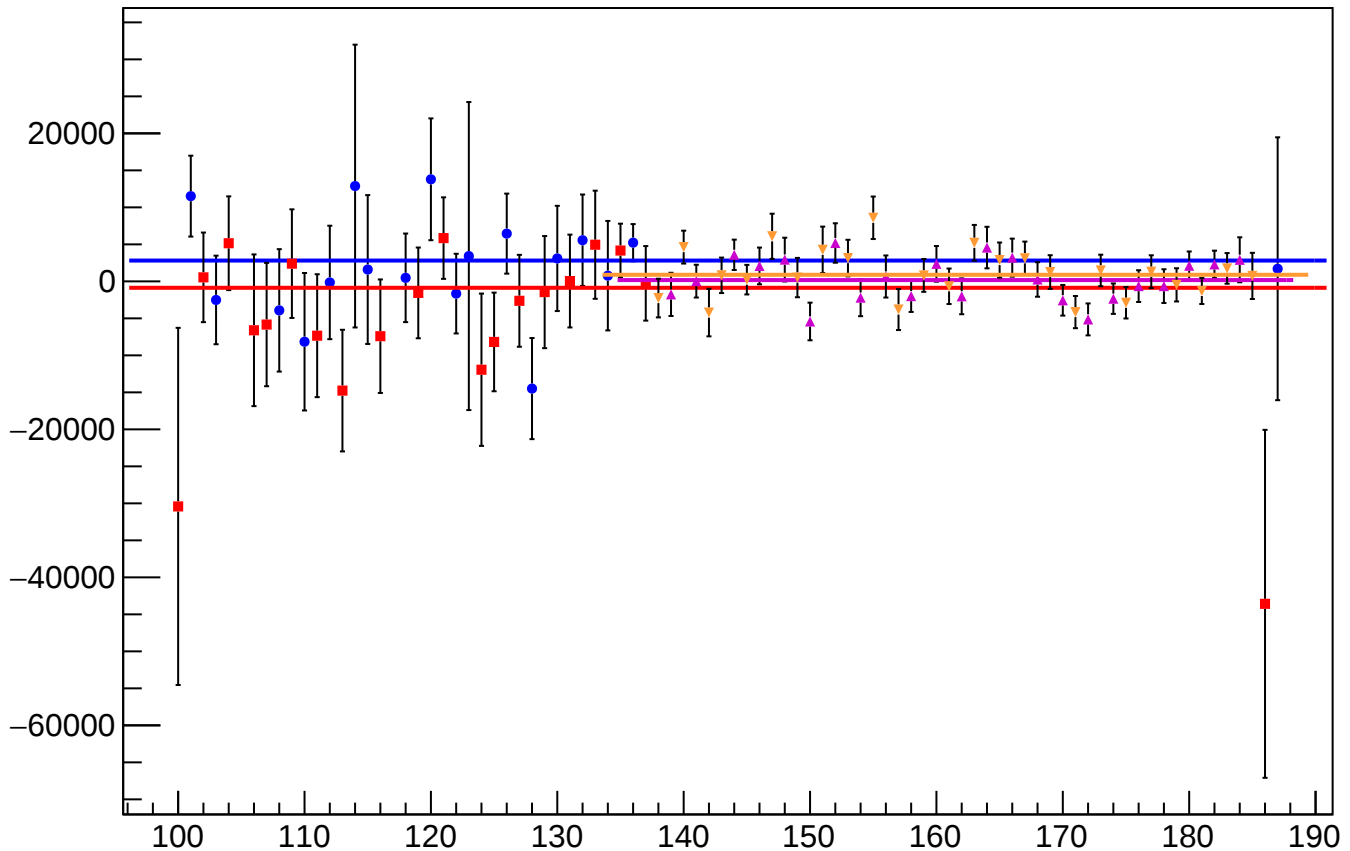
Right: 443.013 $\pm$ 0.091 χ^2 /NDF: 4812748.6/37

In: 356.477 $\pm$ 0.053 χ^2 /NDF: 3281434.2/40

Out: 361.777 $\pm$ 0.052 χ^2 /NDF: 3804942.5/44

All: 359.165 $\pm$ 0.037 χ^2 /NDF: 7091428.9/85

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: -868.604+/-1509.500 χ^2/NDF : 17.4/19

Left In: 172.391+/-488.067 χ^2/NDF : 33.2/22

Left: 542.448+/-339.760 χ^2/NDF : 72.3/47

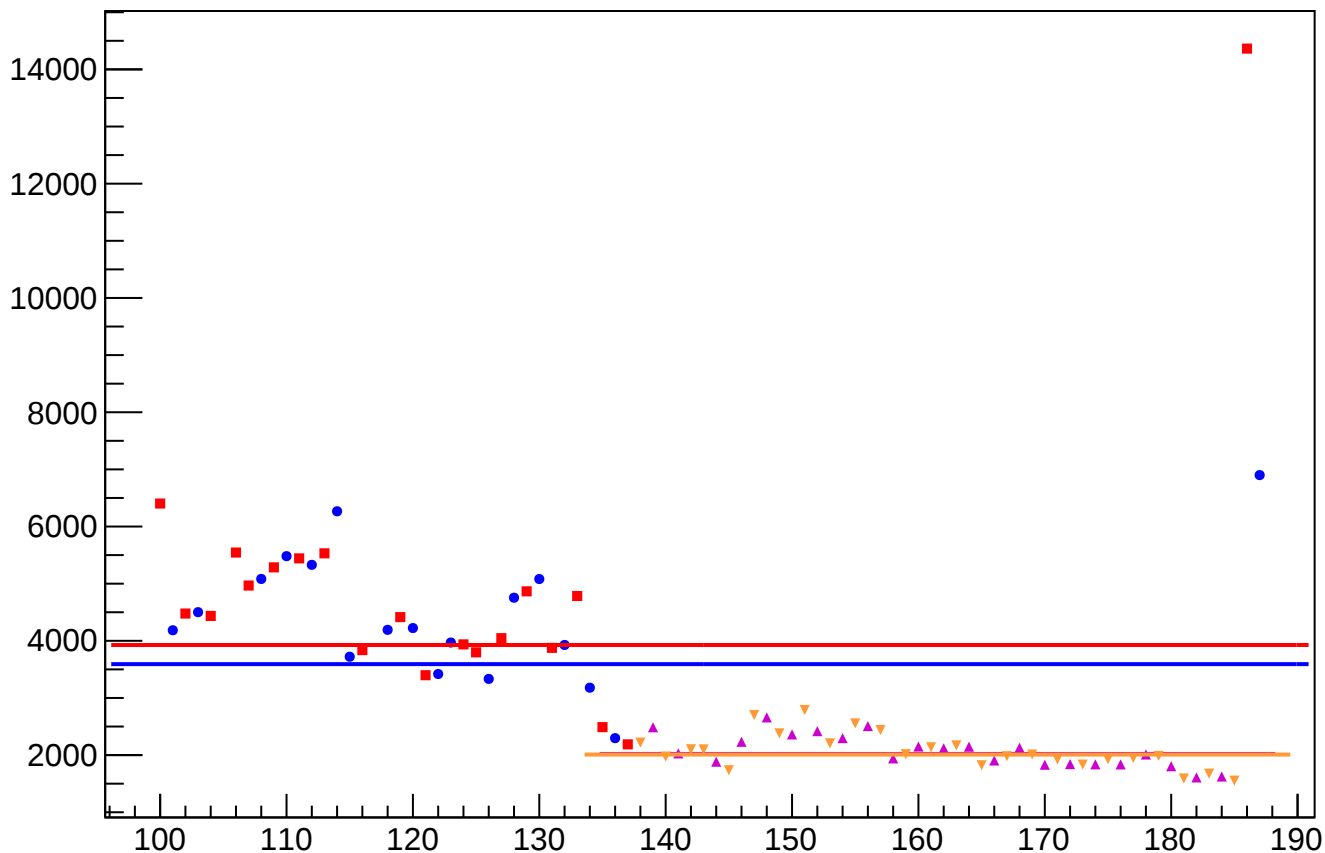
Right: 1050.894+/-1044.195 χ^2/NDF : 37.0/37

In: 442.387+/-462.435 χ^2/NDF : 52.7/40

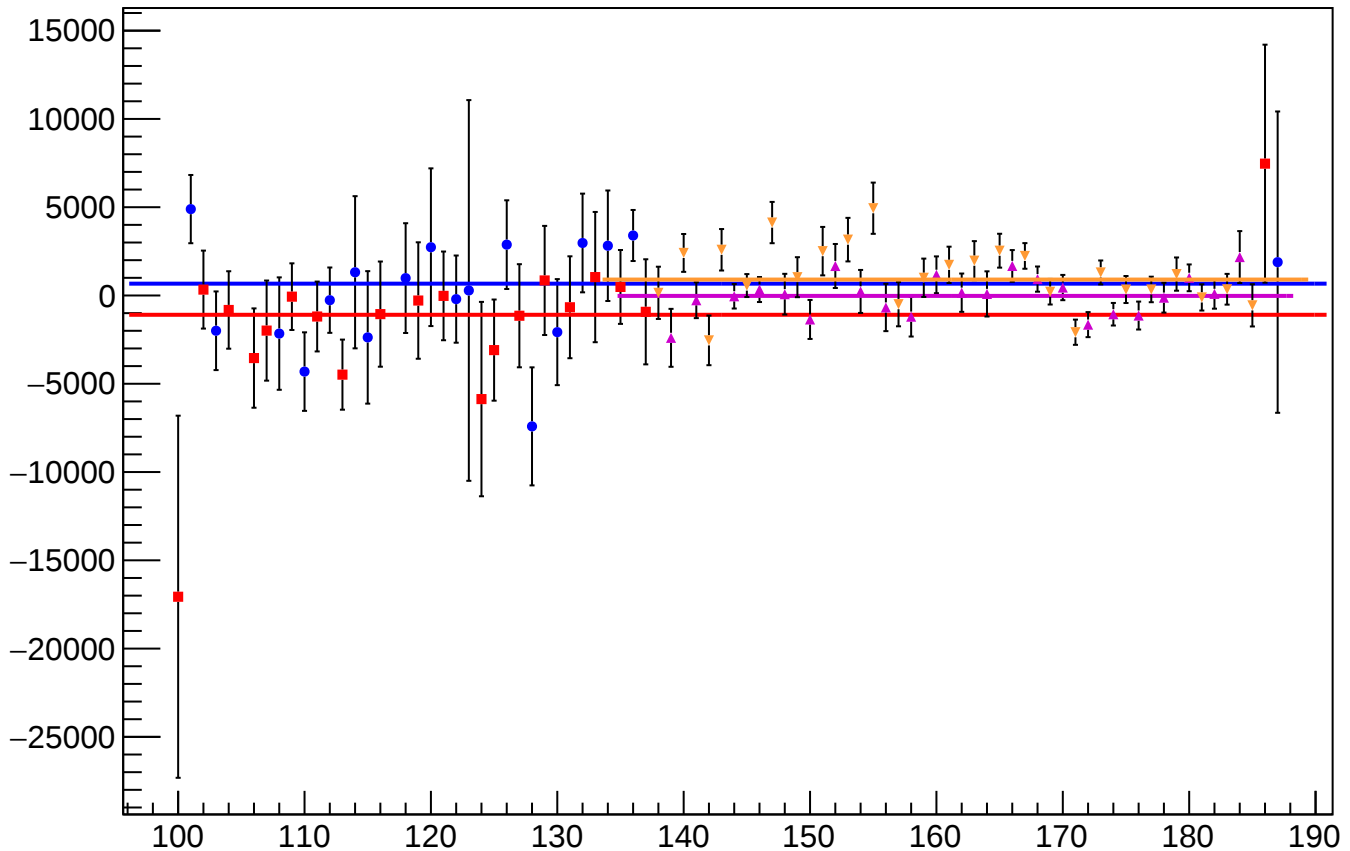
Out: 732.967+/-451.587 χ^2/NDF : 56.5/44

All: 591.125+/-323.088 χ^2/NDF : 109.5/85

asym_sam2_rms vs Slug, Sign Corrected



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: -1093.487+/-601.934 χ^2/NDF : 11.4/19

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

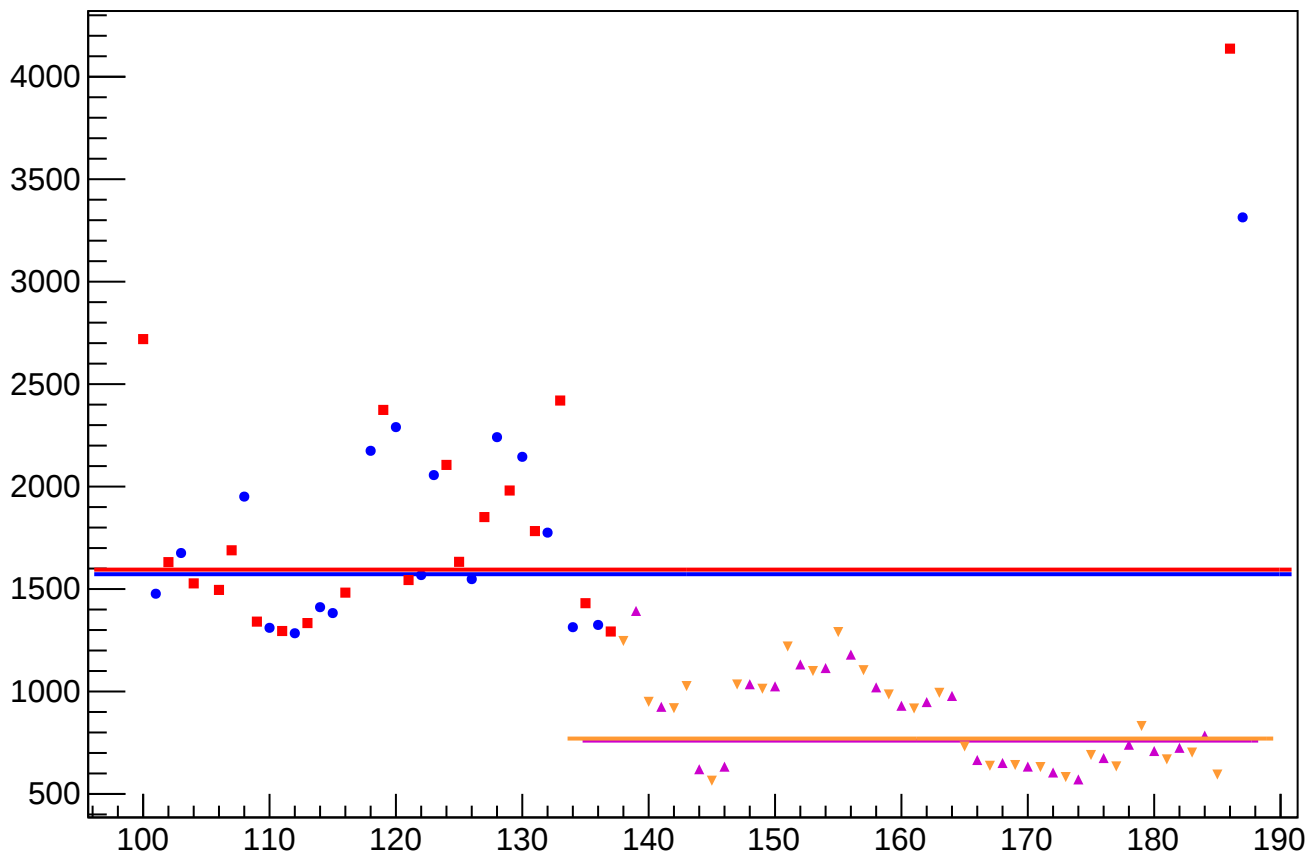
Right: -239.085+/-432.168 χ^2/NDF : 41.0/37

In: 34.789+/-180.052 χ^2/NDF : 54.8/40

Out: 728.411+/-177.579 χ^2/NDF : 84.9/44

All: 386.396+/-126.432 χ^2/NDF : 147.3/85

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1572.364+/-0.439 χ^2/NDF : 571374.6/17

Left Out: 770.320+/-0.131 χ^2/NDF : 2287655.1/24

Right Out: 1594.811+/-0.426 χ^2/NDF : 753414.9/19

Left In: 760.352+/-0.133 χ^2/NDF : 1986749.8/22

Left: 765.397+/-0.093 χ^2/NDF : 4277246.5/47

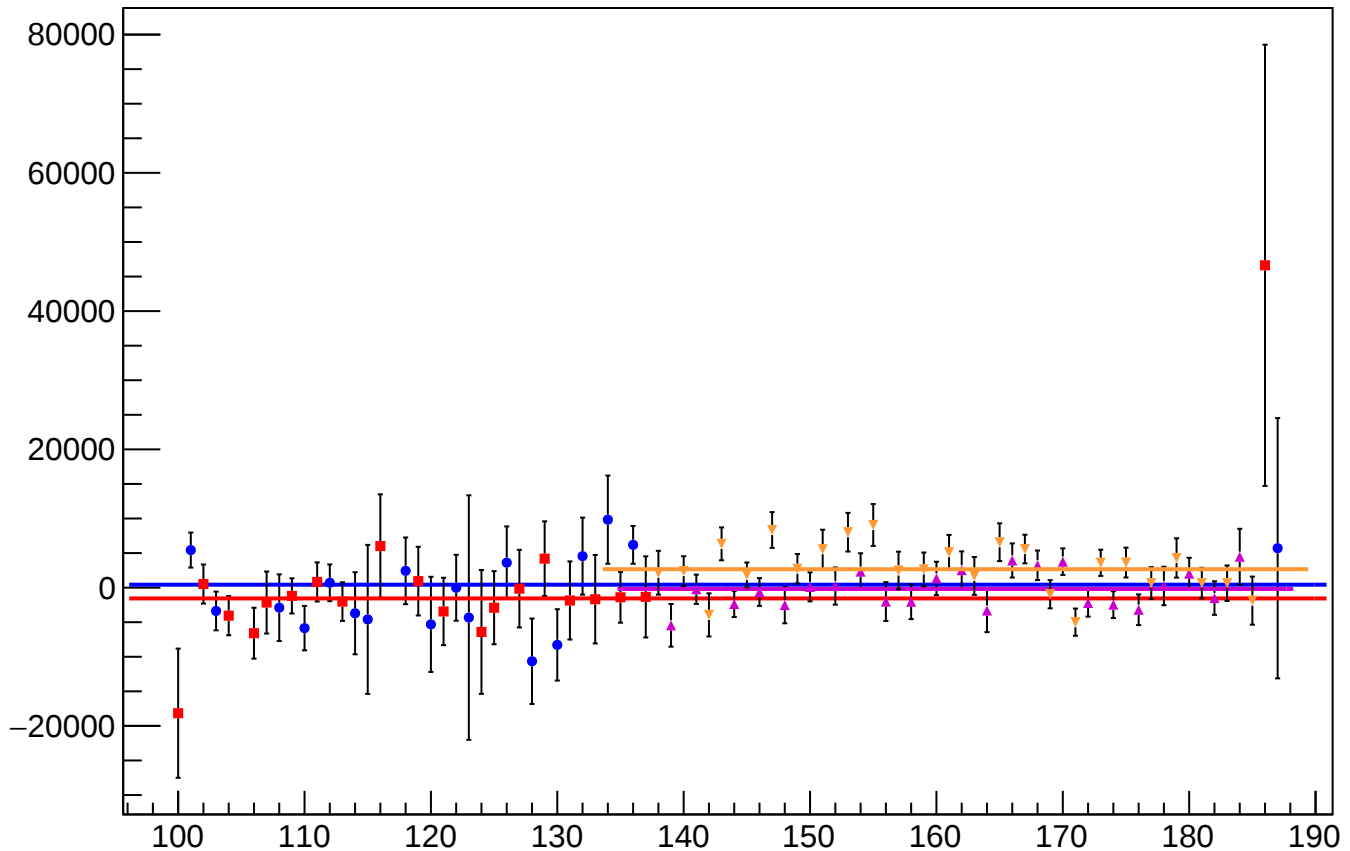
Right: 1583.935+/-0.306 χ^2/NDF : 1326137.1/37

In: 828.643+/-0.127 χ^2/NDF : 5691500.1/40

Out: 842.078+/-0.126 χ^2/NDF : 6466841.8/44

All: 835.453+/-0.089 χ^2/NDF : 12163986.1/85

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: -1560.531+/-925.388 χ^2/NDF : 12.4/19

Left In: -199.371+/-492.082 χ^2/NDF : 25.8/22

Left: 1269.388+/-343.520 χ^2/NDF : 92.4/47

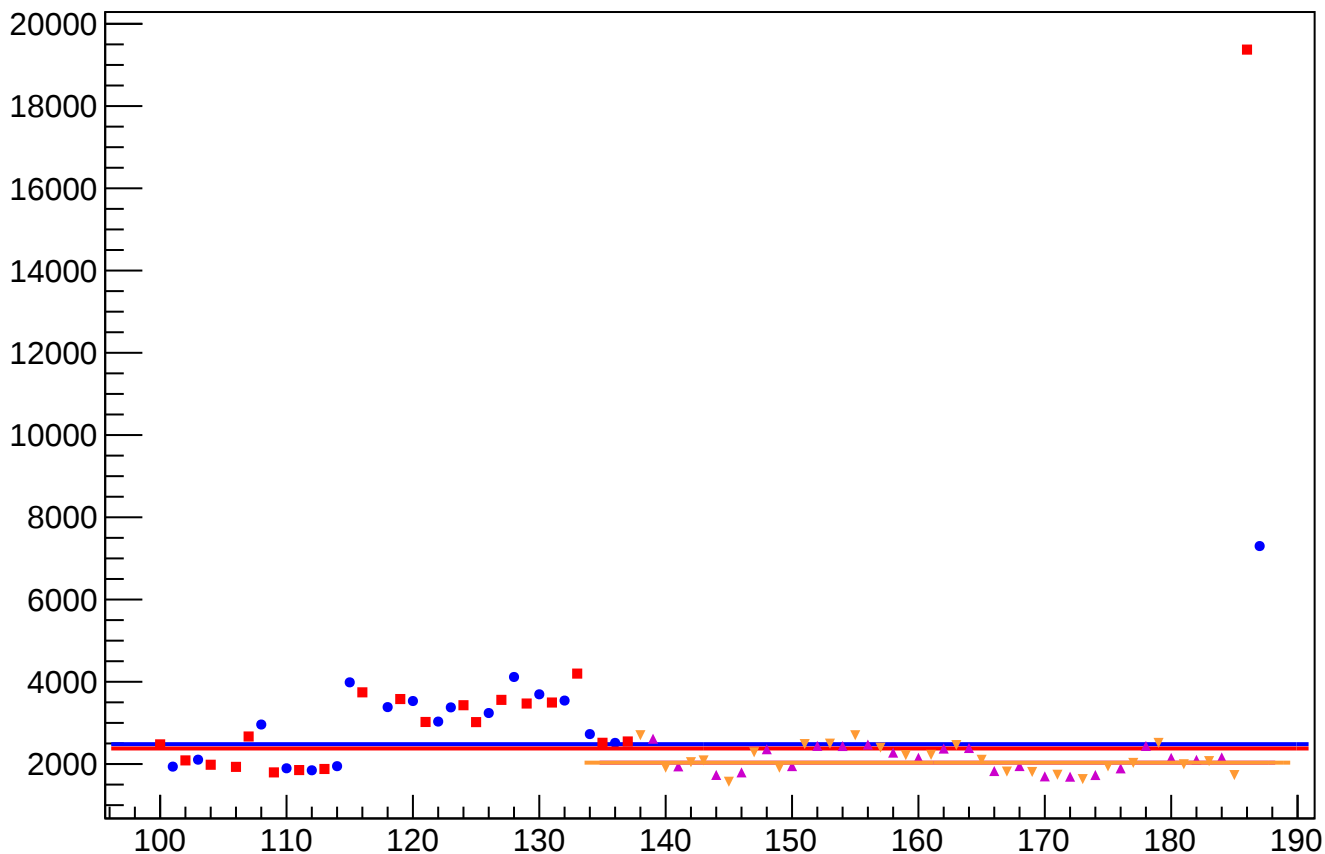
Right: -640.850+/-678.142 χ^2/NDF : 39.9/37

In: -76.815+/-441.231 χ^2/NDF : 51.5/40

Out: 1770.277+/-425.932 χ^2/NDF : 78.1/44

All: 879.310+/-306.445 χ^2/NDF : 138.6/85

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: 2378.145+/-0.654 χ^2/NDF : 1593808.3/19

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

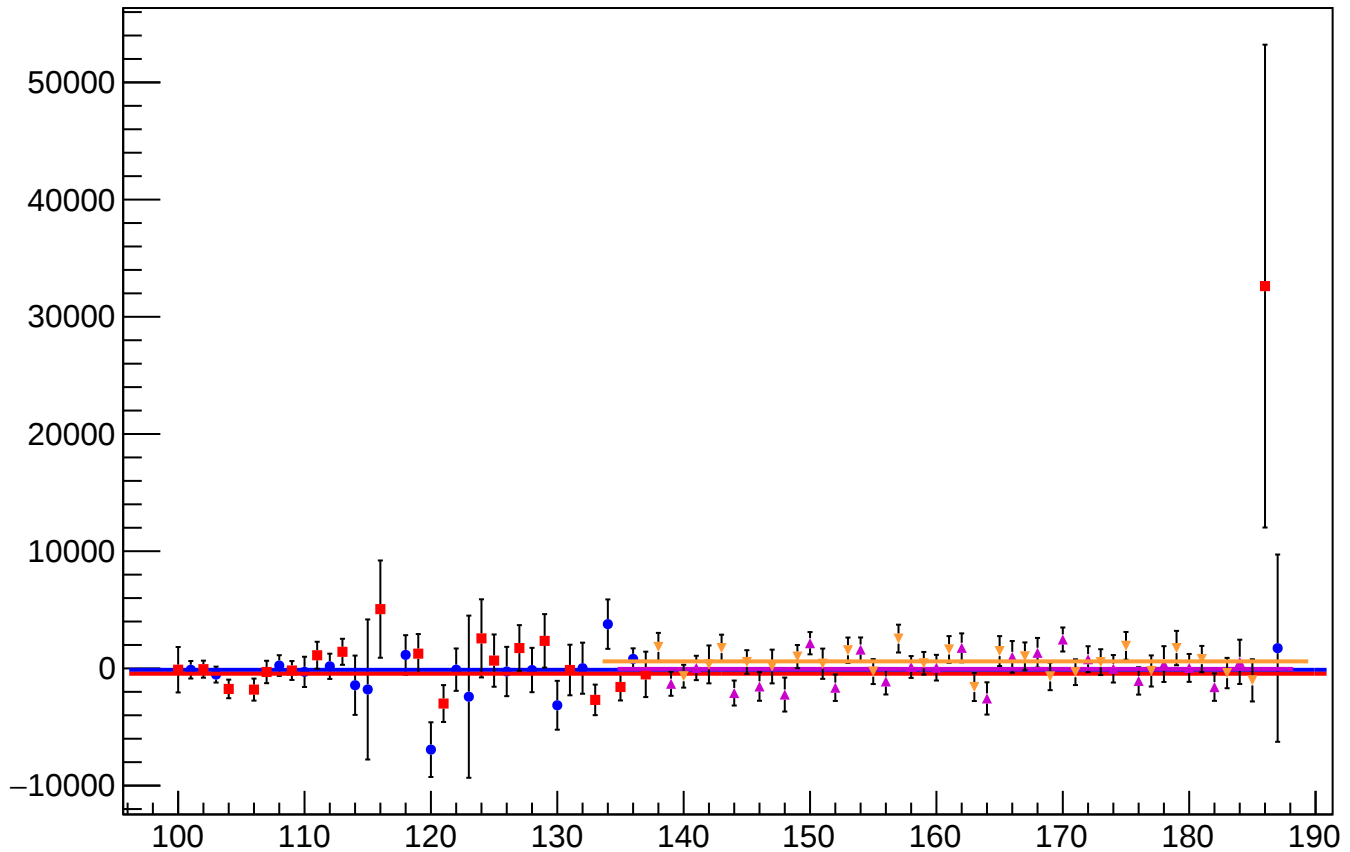
Right: 2426.584+/-0.480 χ^2/NDF : 2637114.8/37

In: 2120.876+/-0.312 χ^2/NDF : 2012217.9/40

Out: 2106.385+/-0.301 χ^2/NDF : 2636719.1/44

All: 2113.375+/-0.217 χ^2/NDF : 4650053.7/85

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: -454.954+/-283.109 χ^2/NDF : 25.7/19

Left In: -41.559+/-240.807 χ^2/NDF : 36.4/22

Left: 287.096+/-168.174 χ^2/NDF : 58.5/47

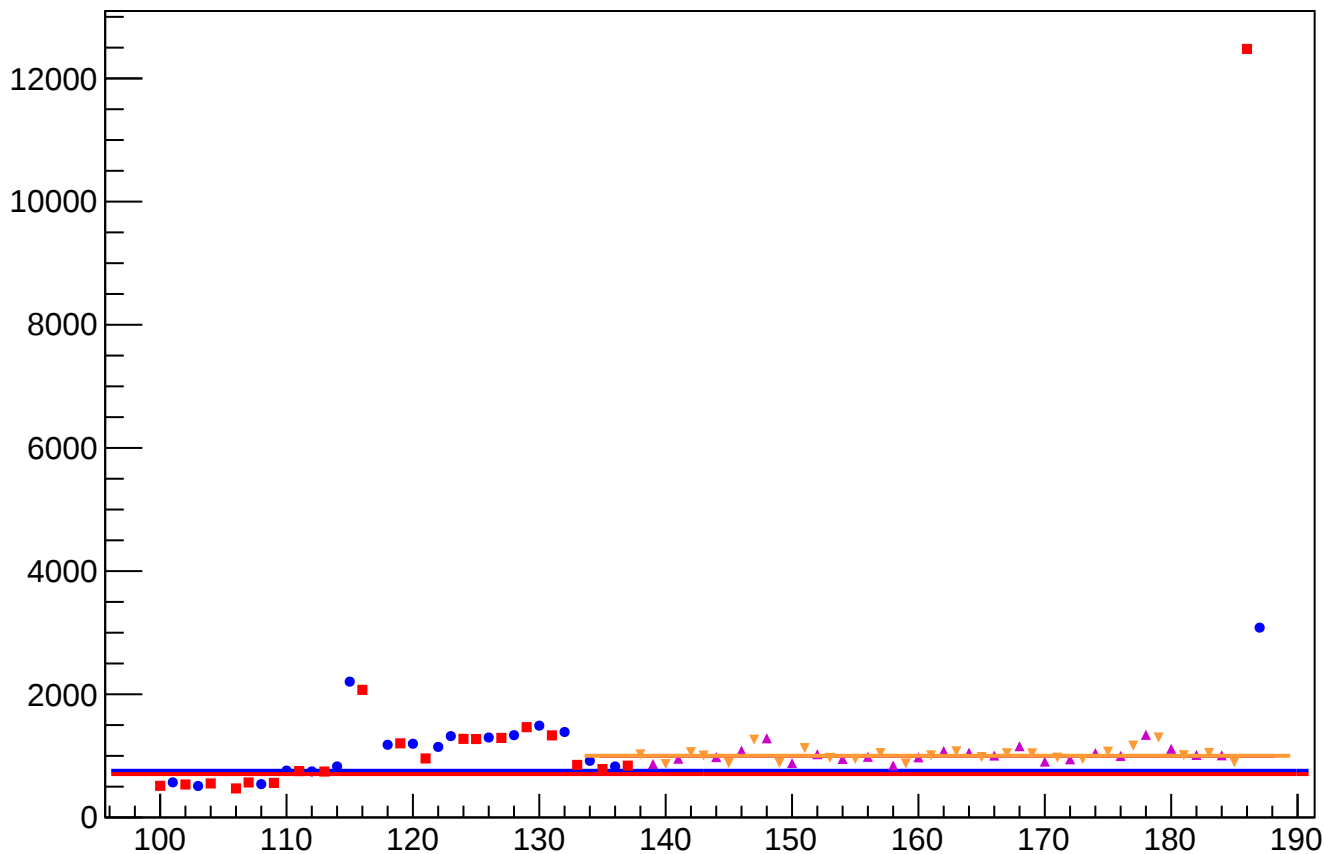
Right: -305.160+/-210.111 χ^2/NDF : 43.1/37

In: -71.220+/-190.970 χ^2/NDF : 53.2/40

Out: 169.716+/-180.807 χ^2/NDF : 52.4/44

All: 55.829+/-131.296 χ^2/NDF : 106.5/85

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: 704.299+/-0.200 χ^2/NDF : 2342699.1/19

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

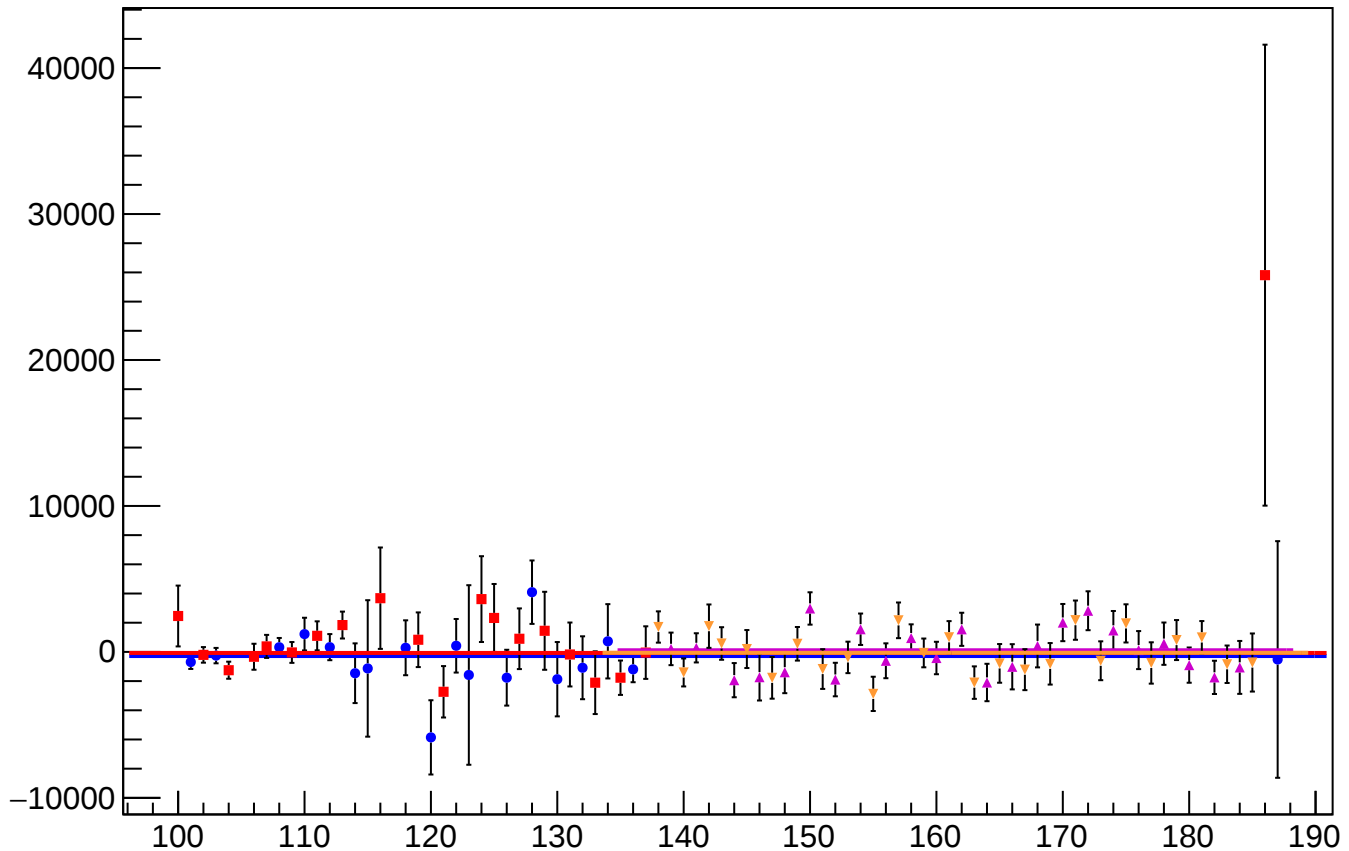
Right: 728.333+/-0.149 χ^2/NDF : 4233425.6/37

In: 908.897+/-0.135 χ^2/NDF : 3002021.8/40

Out: 880.263+/-0.128 χ^2/NDF : 4017835.9/44

All: 893.798+/-0.093 χ^2/NDF : 7043568.8/85

asym_sam6_mean vs Slug, Sign Corrected



Right In: -283.397+/-250.563 χ^2/NDF : 15.8/17

Left Out: -59.827+/-246.503 χ^2/NDF : 31.0/24

Right Out: -71.299+/-246.181 χ^2/NDF : 24.3/19

Left In: 112.398+/-255.409 χ^2/NDF : 34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

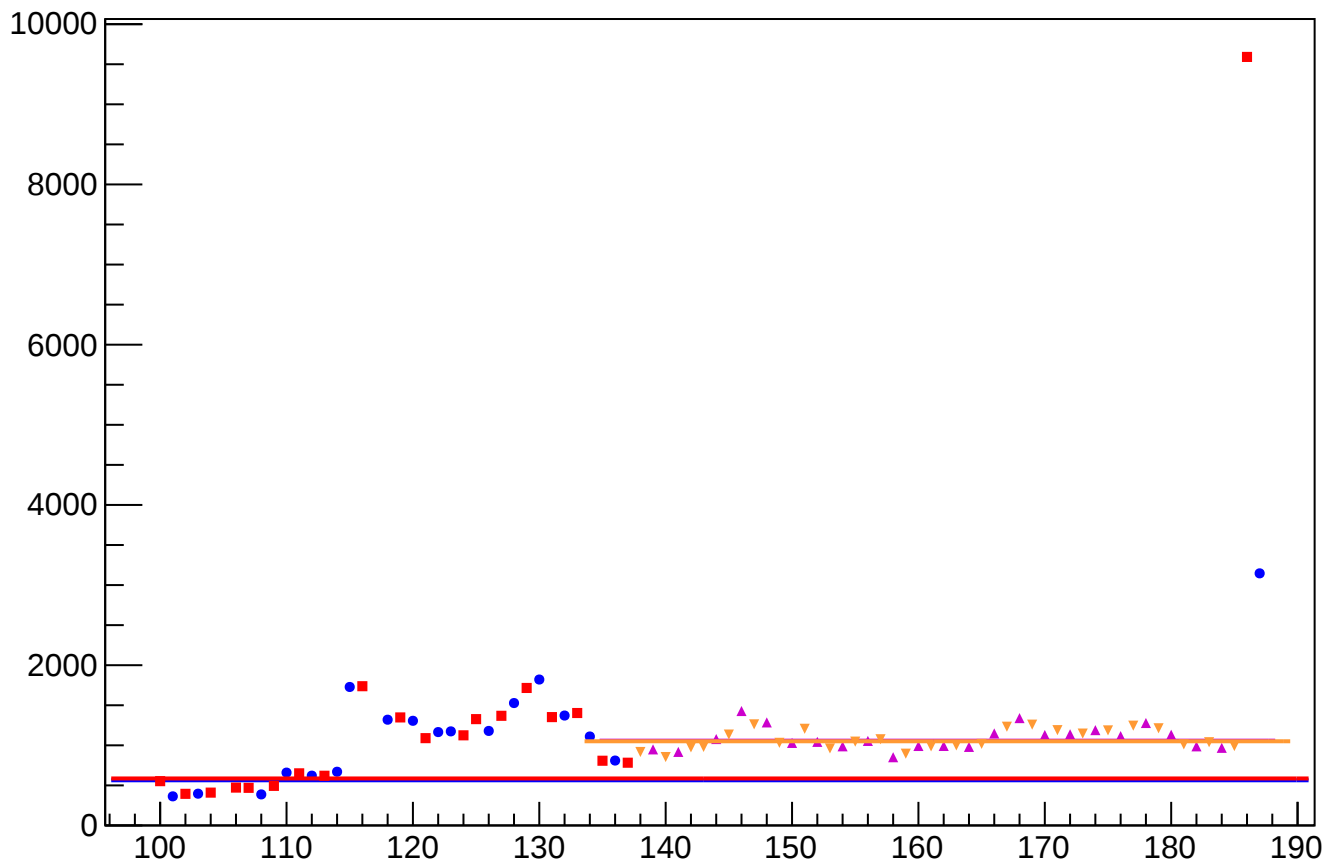
Right: -175.477+/-175.605 χ^2/NDF : 40.4/37

In: -89.290+/-178.864 χ^2/NDF : 51.9/40

Out: -65.571+/-174.190 χ^2/NDF : 55.2/44

All: -77.117+/-124.790 χ^2/NDF : 107.1/85

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: 586.534+/-0.174 χ^2/NDF : 3464132.4/19

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

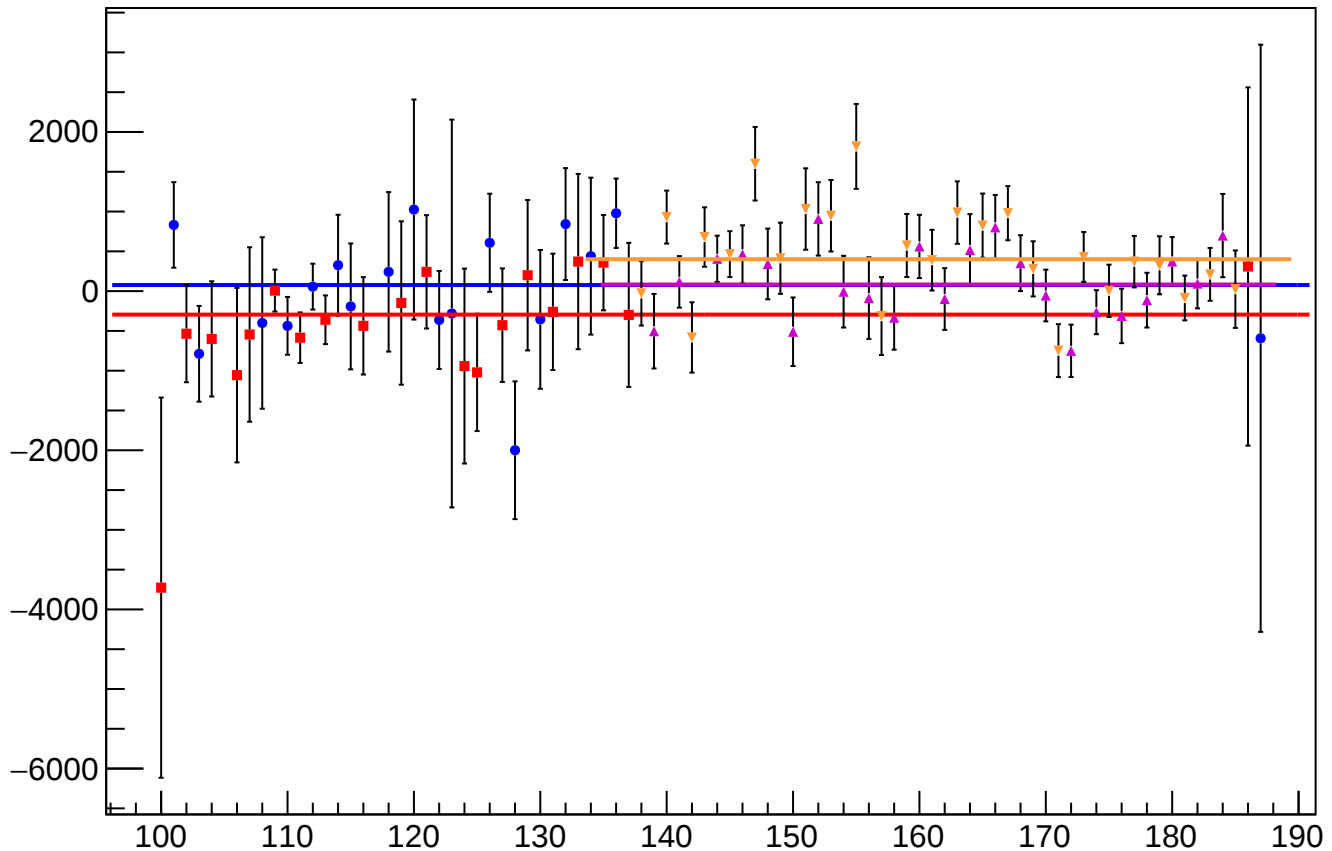
Right: 575.362+/-0.124 χ^2/NDF : 6886956.8/37

In: 806.209+/-0.126 χ^2/NDF : 7760362.3/40

Out: 818.288+/-0.123 χ^2/NDF : 7496832.0/44

All: 812.408+/-0.088 χ^2/NDF : 15261875.7/85

asym_sam7_mean vs Slug, Sign Corrected



Right In: 76.409+/-143.162 χ^2/NDF : 19.9/17

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -295.198+/-129.599 χ^2/NDF : 9.0/19

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

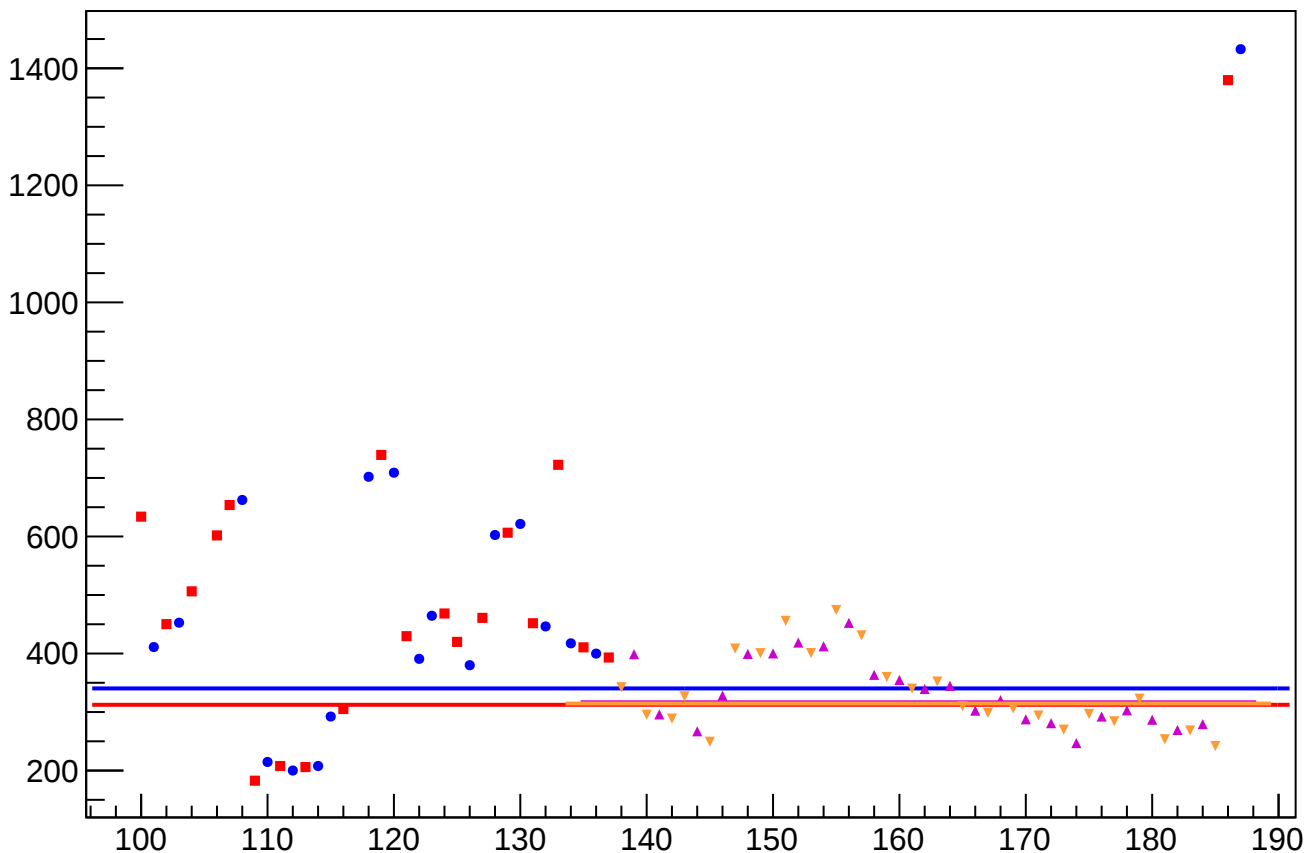
Right: -127.827+/-96.078 χ^2/NDF : 32.6/37

In: 81.438+/-67.748 χ^2/NDF : 48.9/40

Out: 227.909+/-64.619 χ^2/NDF : 82.7/44

All: 158.134+/-46.759 χ^2/NDF : 134.0/85

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: 312.383+/-0.092 χ^2/NDF : 3183873.4/19

Left In: 316.647+/-0.054 χ^2/NDF : 920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

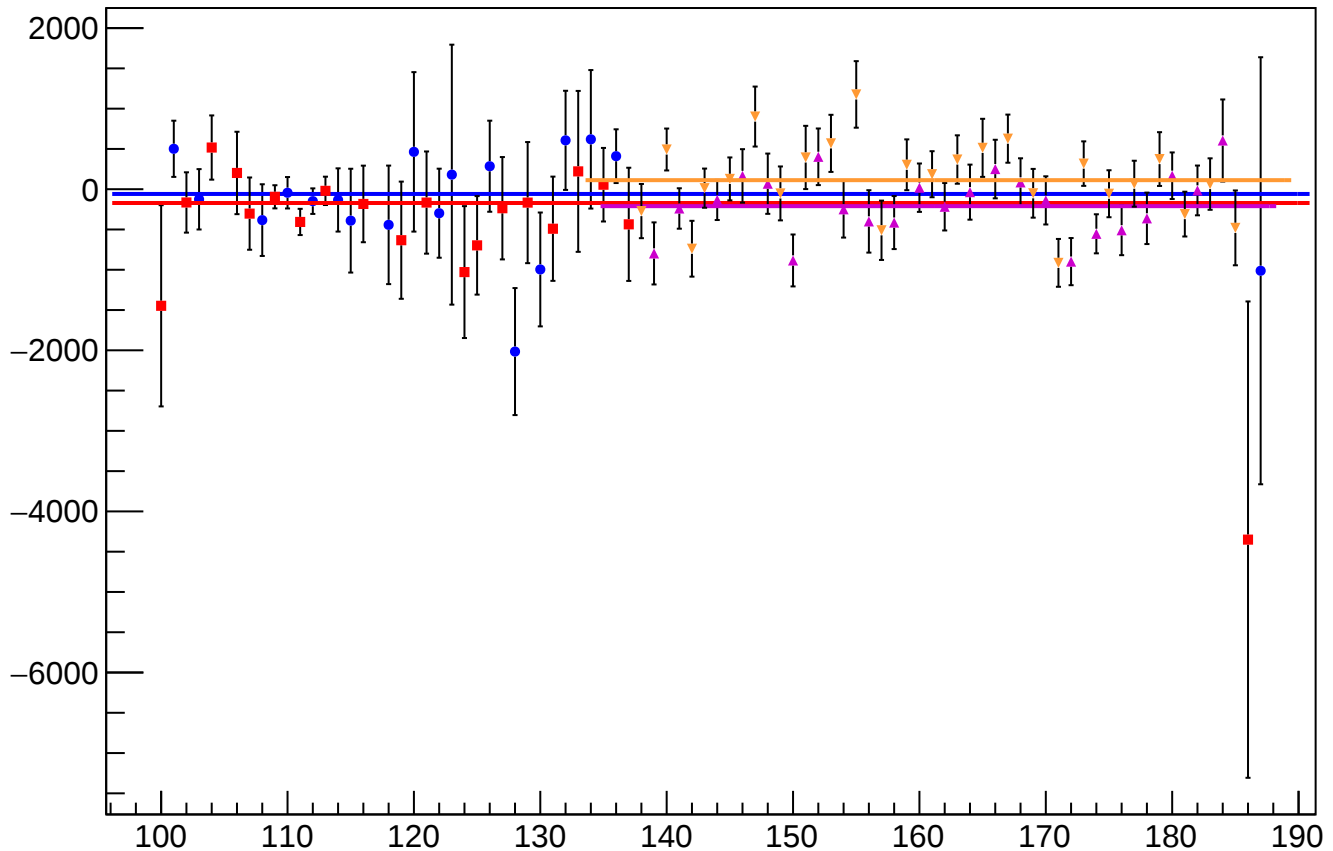
Right: 324.981+/-0.068 χ^2/NDF : 5408962.9/37

In: 321.956+/-0.048 χ^2/NDF : 3146565.2/40

Out: 314.002+/-0.046 χ^2/NDF : 4296734.7/44

All: 317.791+/-0.033 χ^2/NDF : 7457732.4/85

asym_sam8_mean vs Slug, Sign Corrected



Right In: -58.968 $\pm$ 90.641 χ^2/NDF : 16.7/17

Left Out: 112.242 $\pm$ 62.643 χ^2/NDF : 49.1/24

Right Out: -171.155 $\pm$ 76.942 χ^2/NDF : 12.8/19

Left In: -210.453 $\pm$ 65.510 χ^2/NDF : 29.2/22

Left: -41.890 $\pm$ 45.275 χ^2/NDF : 91.0/47

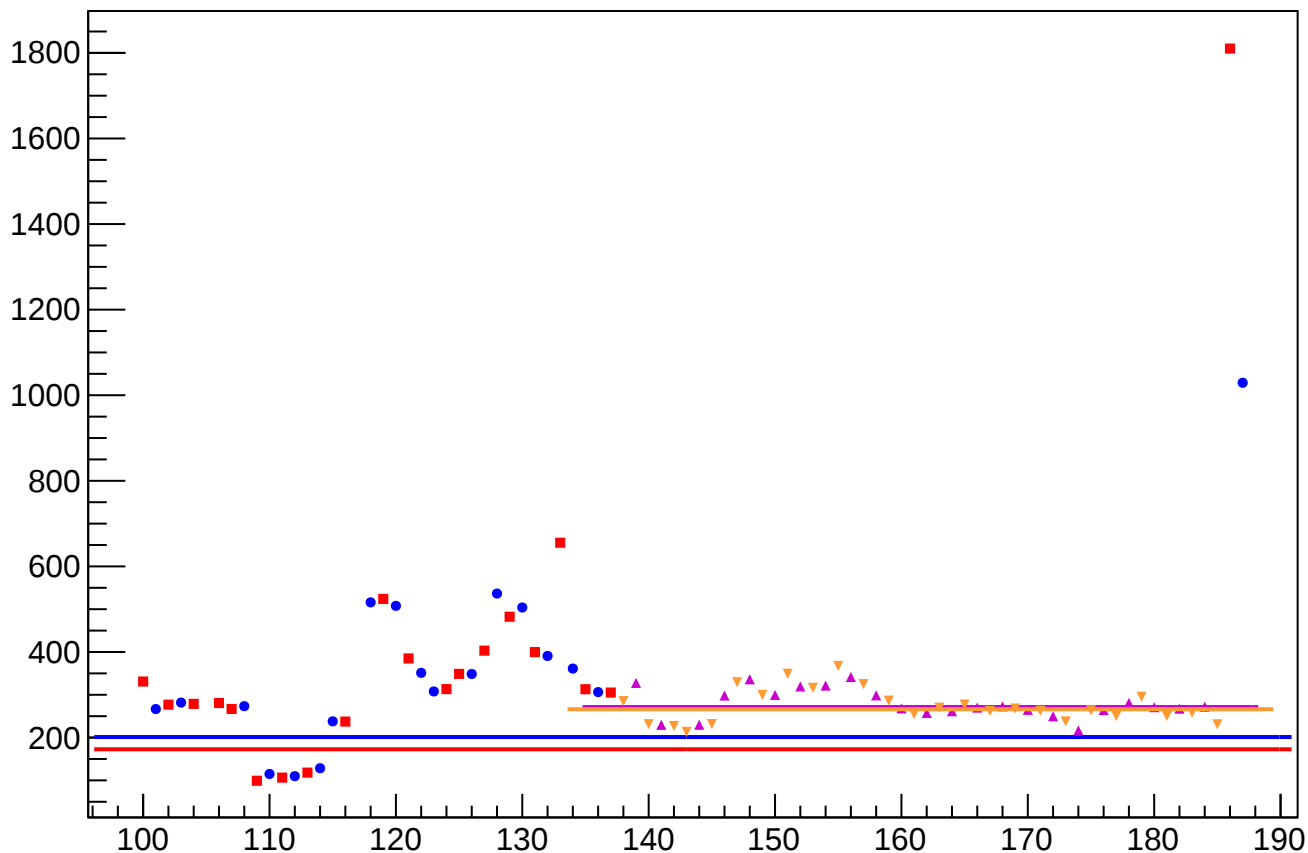
Right: -124.171 $\pm$ 58.658 χ^2/NDF : 30.4/37

In: -158.475 $\pm$ 53.095 χ^2/NDF : 47.7/40

Out: -0.728 $\pm$ 48.579 χ^2/NDF : 70.1/44

All: -72.608 $\pm$ 35.841 χ^2/NDF : 122.6/85

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: 172.656+/-0.054 χ^2/NDF : 4697030.3/19

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

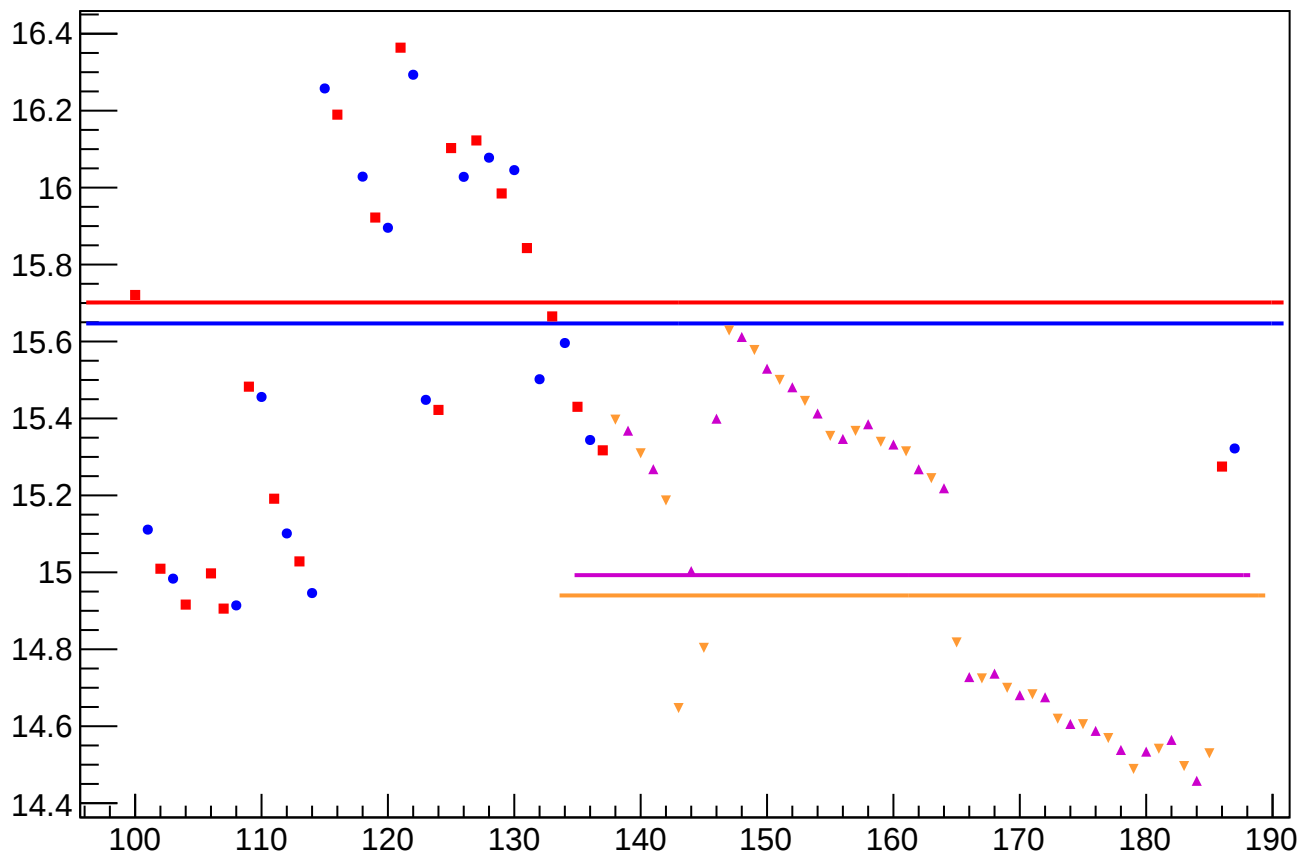
Right: 184.632+/-0.041 χ^2/NDF : 8389886.4/37

In: 247.341+/-0.038 χ^2/NDF : 4886207.9/40

Out: 228.915+/-0.034 χ^2/NDF : 7124712.3/44

All: 237.311+/-0.025 χ^2/NDF : 12142025.6/85

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: 15.701 $\pm$ 0.000 χ^2 /NDF: 5137705689.4/19

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

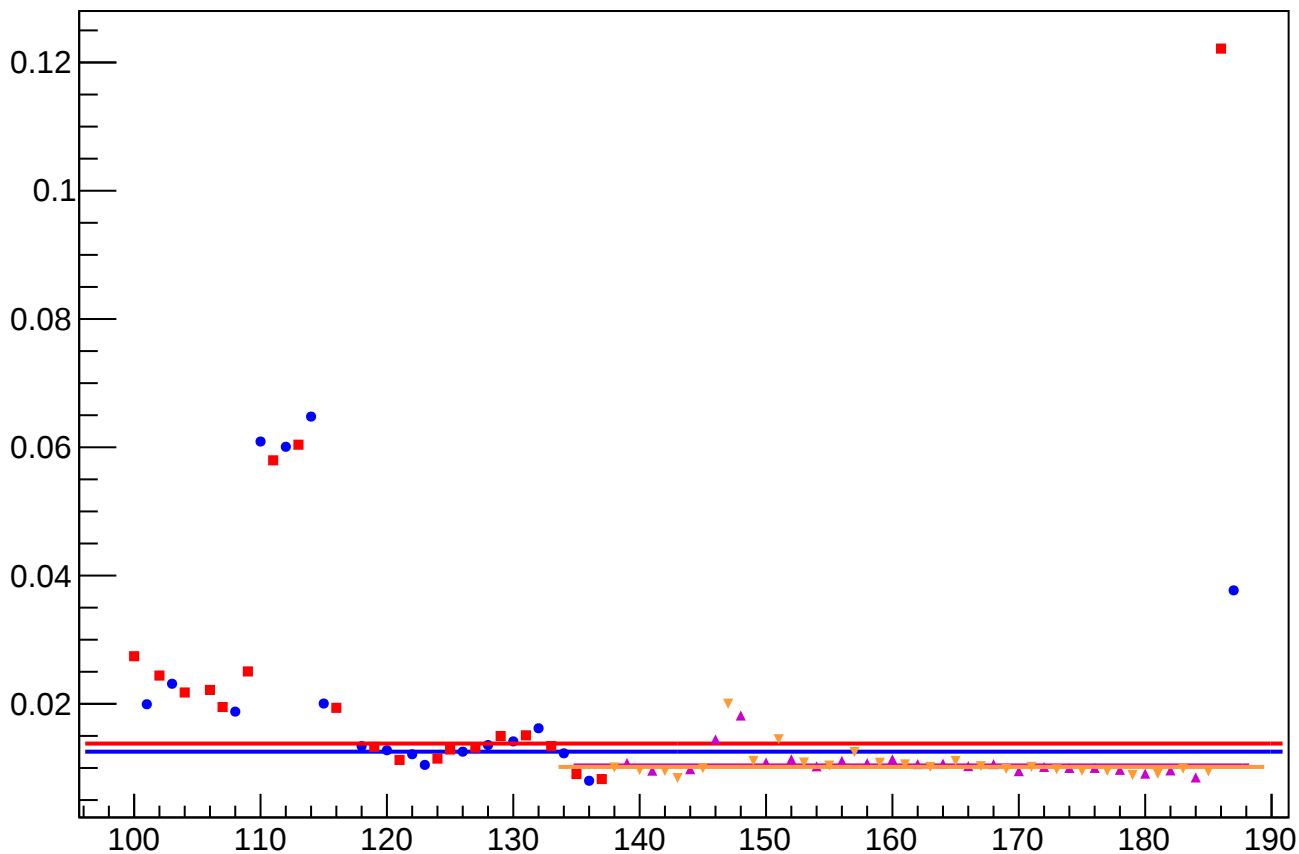
Right: 15.672 $\pm$ 0.000 χ^2 /NDF: 10639170247.0/37

In: 15.110 $\pm$ 0.000 χ^2 /NDF: 39141003037.3/40

Out: 15.052 $\pm$ 0.000 χ^2 /NDF: 43610765181.4/44

All: 15.080 $\pm$ 0.000 χ^2 /NDF: 83070959273.6

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 : 2643067.5/19

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

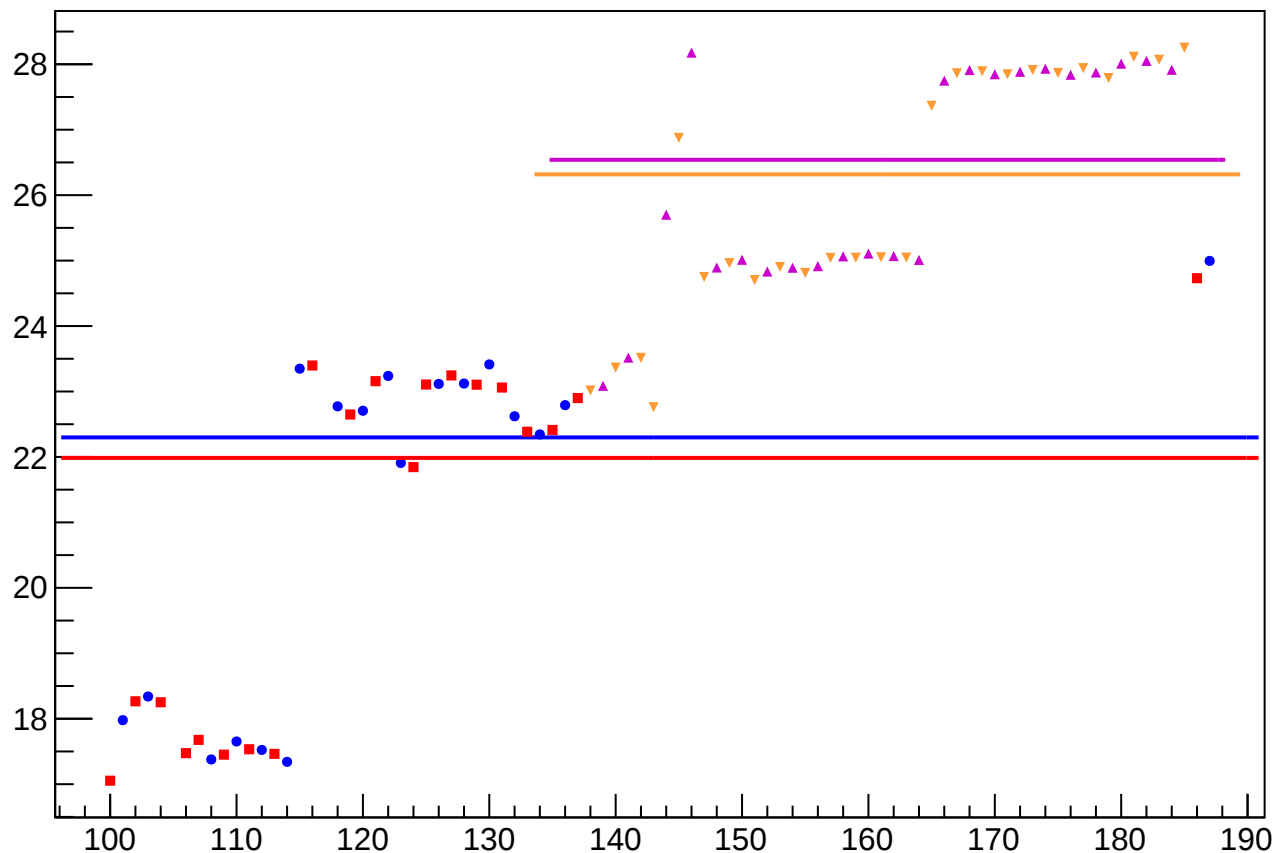
Right: 0.013+/-0.000 χ^2/NDF : 4964697.1/37

In: 0.011+/-0.000 χ^2/NDF : 3067271.1/40

Out: 0.011+/-0.000 χ^2/NDF : 4014175.4/44

All: 0.011+/-0.000 χ^2/NDF : 7082724.7/85

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.299+/-0.000

χ^2/NDF : 941922474.8/17

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right: 22.152+/-0.000

χ^2/NDF : 2014930970.4/37

Right Out: 21.985+/-0.000

χ^2/NDF : 1058651860.5/19

In: 25.717+/-0.000

χ^2/NDF : 8777207048.8/40

Out: 25.609+/-0.000

χ^2/NDF : 10102465071.6/44

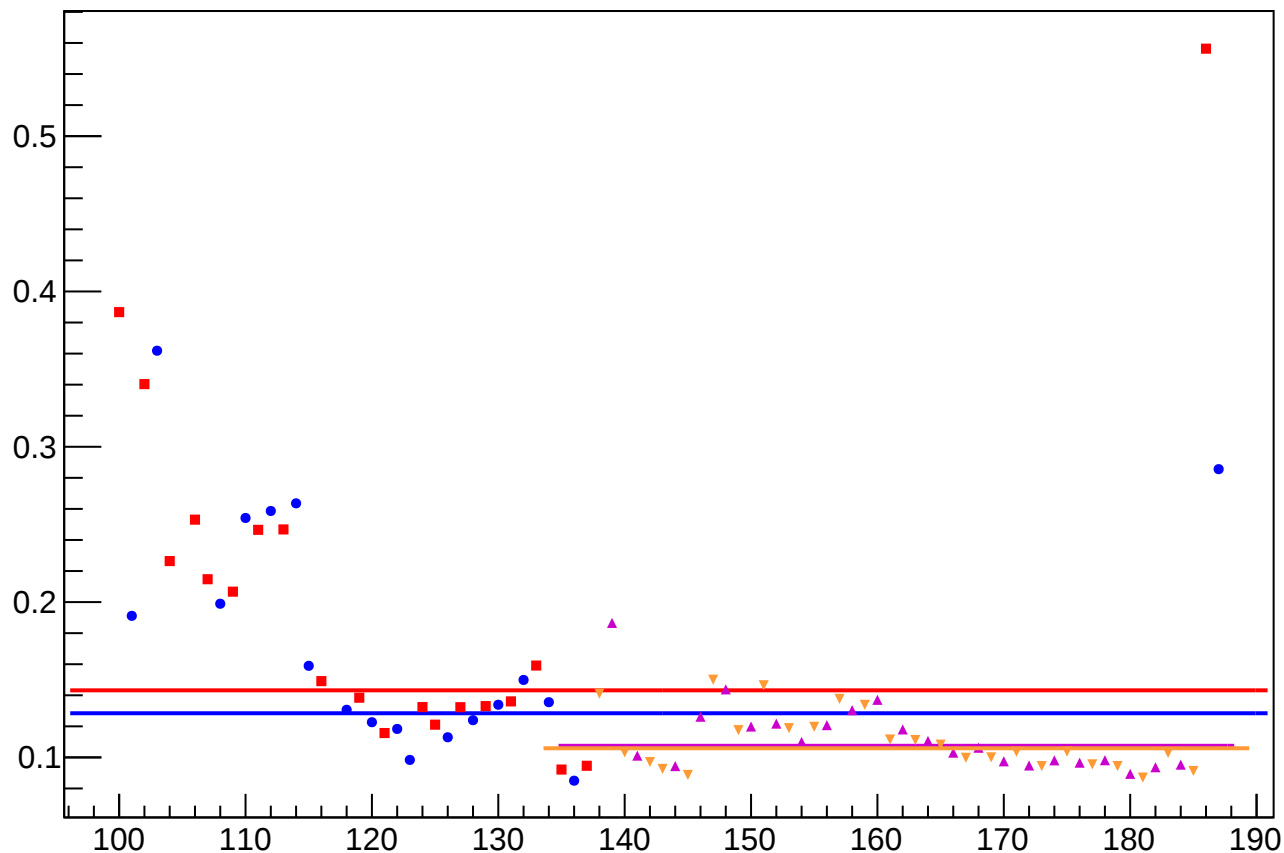
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.662+/-0.000

χ^2/NDF : 18889172613.7

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: 0.143+/-0.000 χ^2/NDF : 1854767.8/19

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

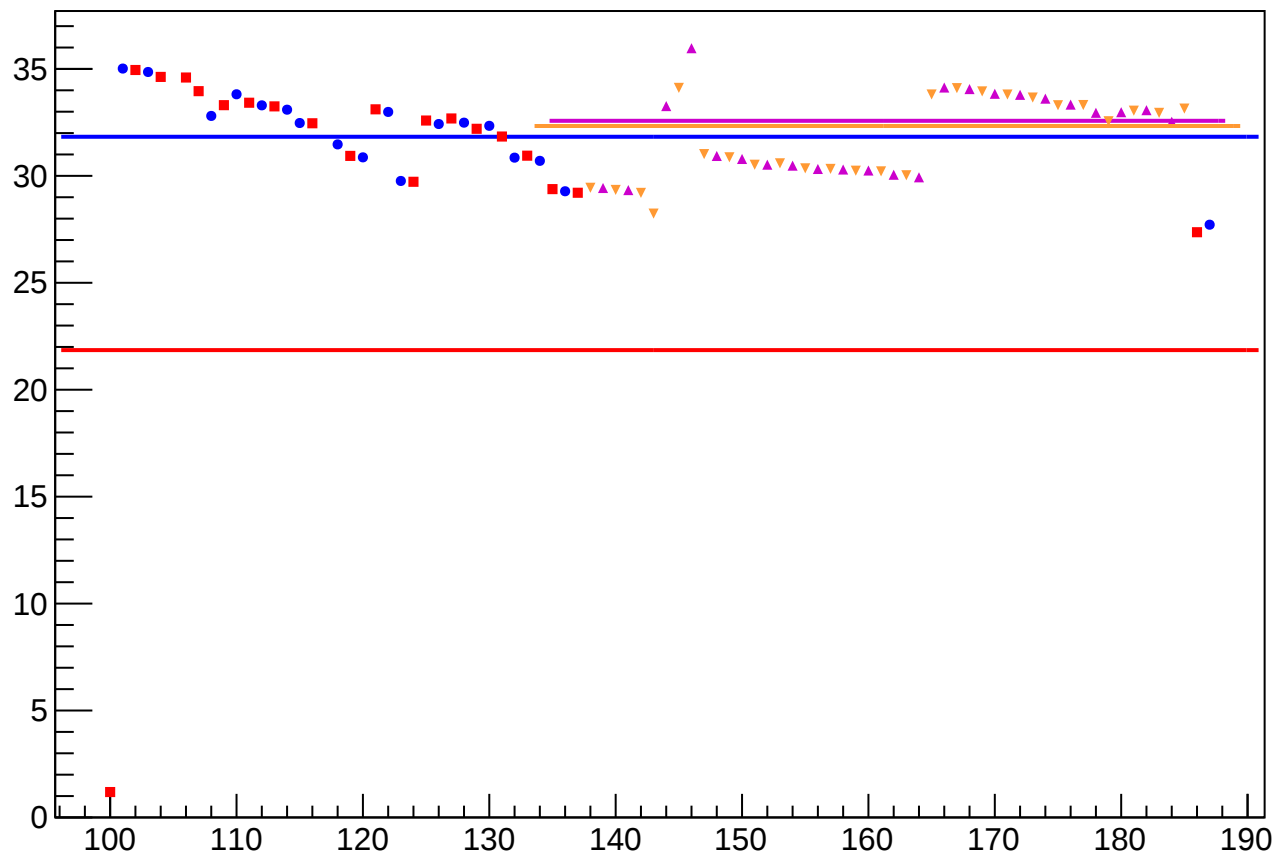
Right: 0.135+/-0.000 χ^2/NDF : 3496473.1/37

In: 0.112+/-0.000 χ^2/NDF : 2570134.9/40

Out: 0.112+/-0.000 χ^2/NDF : 3229619.2/44

All: 0.112+/-0.000 χ^2/NDF : 5800078.4/85

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

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

Right: 25.876+/-0.000

χ^2/NDF : 274259337793.5/37

Right Out: 21.852+/-0.000

χ^2/NDF : 229271466327.8/19

In: 32.458+/-0.000

χ^2/NDF : 14141363726.8/40

Out: 30.159+/-0.000

χ^2/NDF : 335336705435.8/44

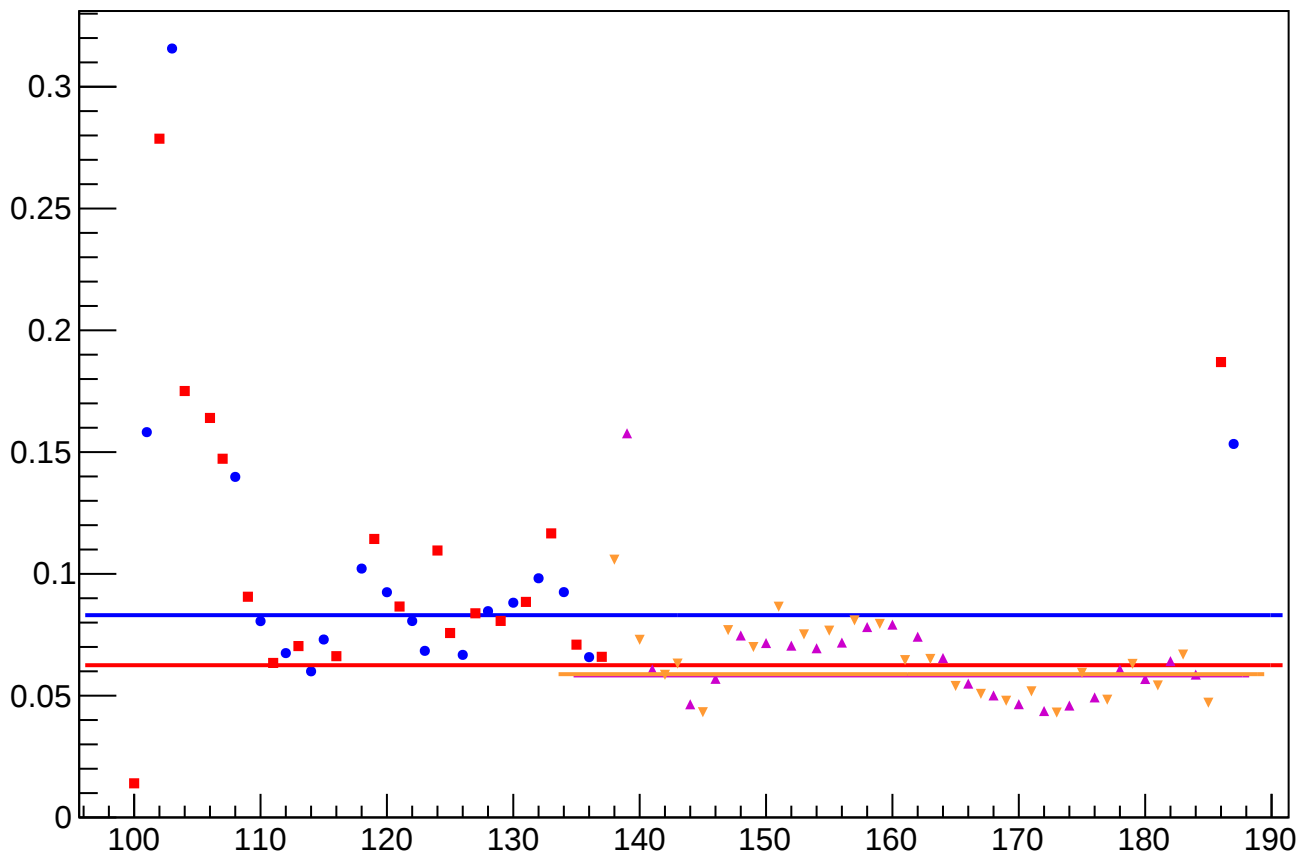
Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

All: 31.247+/-0.000

χ^2/NDF : 362397825748.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.083 $\pm$ 0.000 χ^2 /NDF: 1241576.6/17

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.063 $\pm$ 0.000 χ^2 /NDF: 3932823.6/19

Left In: 0.058 $\pm$ 0.000 χ^2 /NDF:1525476.4/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 2929140.7/47

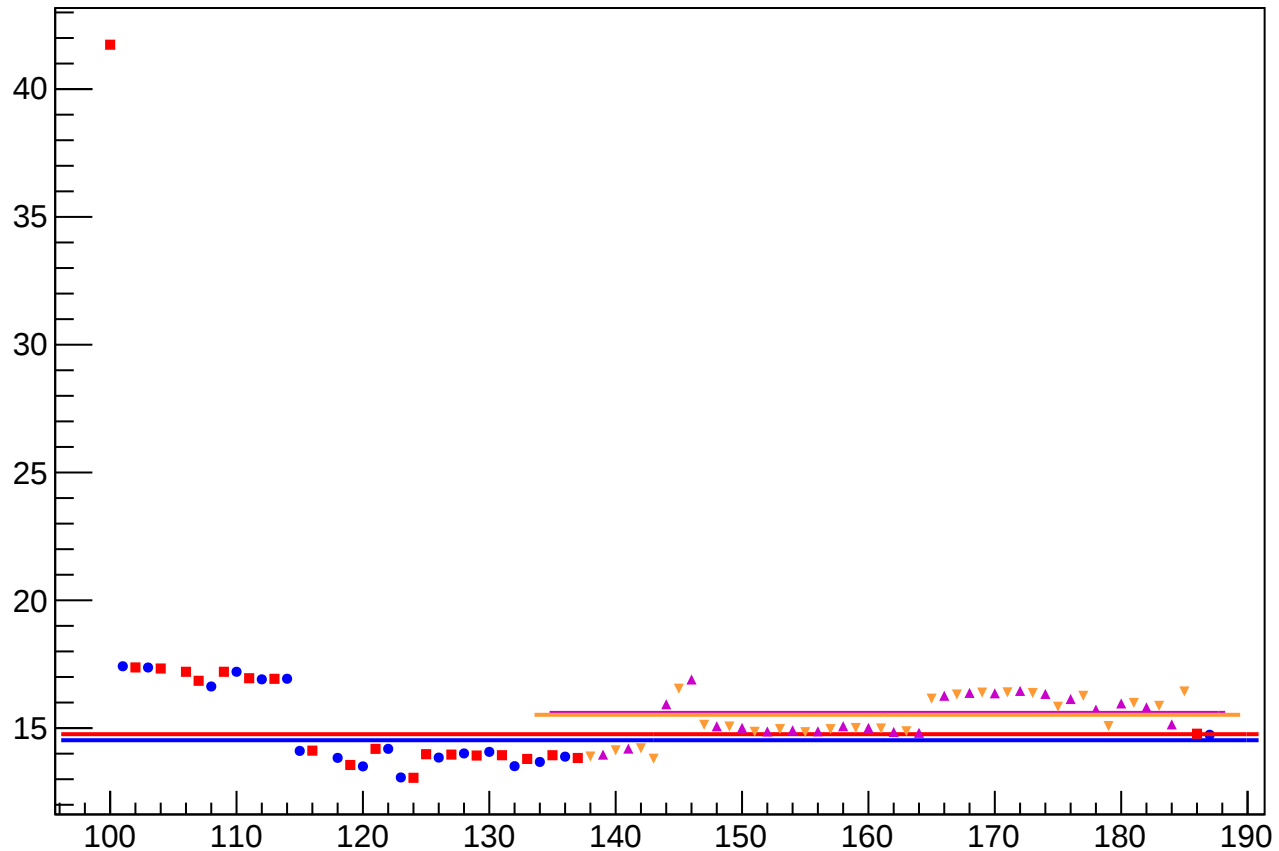
Right: 0.071 $\pm$ 0.000 χ^2 /NDF: 5538980.3/37

In: 0.062 $\pm$ 0.000 χ^2 /NDF:3515004.3/40

Out: 0.060 $\pm$ 0.000 χ^2 /NDF:5358431.9/44

All: 0.061 $\pm$ 0.000 χ^2 /NDF: 8905994.7/85

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.525 $\pm$ 0.000 χ^2/NDF : 1485663520.9/17

Left Out: 15.521 $\pm$ 0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.762 $\pm$ 0.000 χ^2/NDF : 1903089577.9/19

Left In: 15.595 $\pm$ 0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557 $\pm$ 0.000 χ^2/NDF : 4510008259.4/47

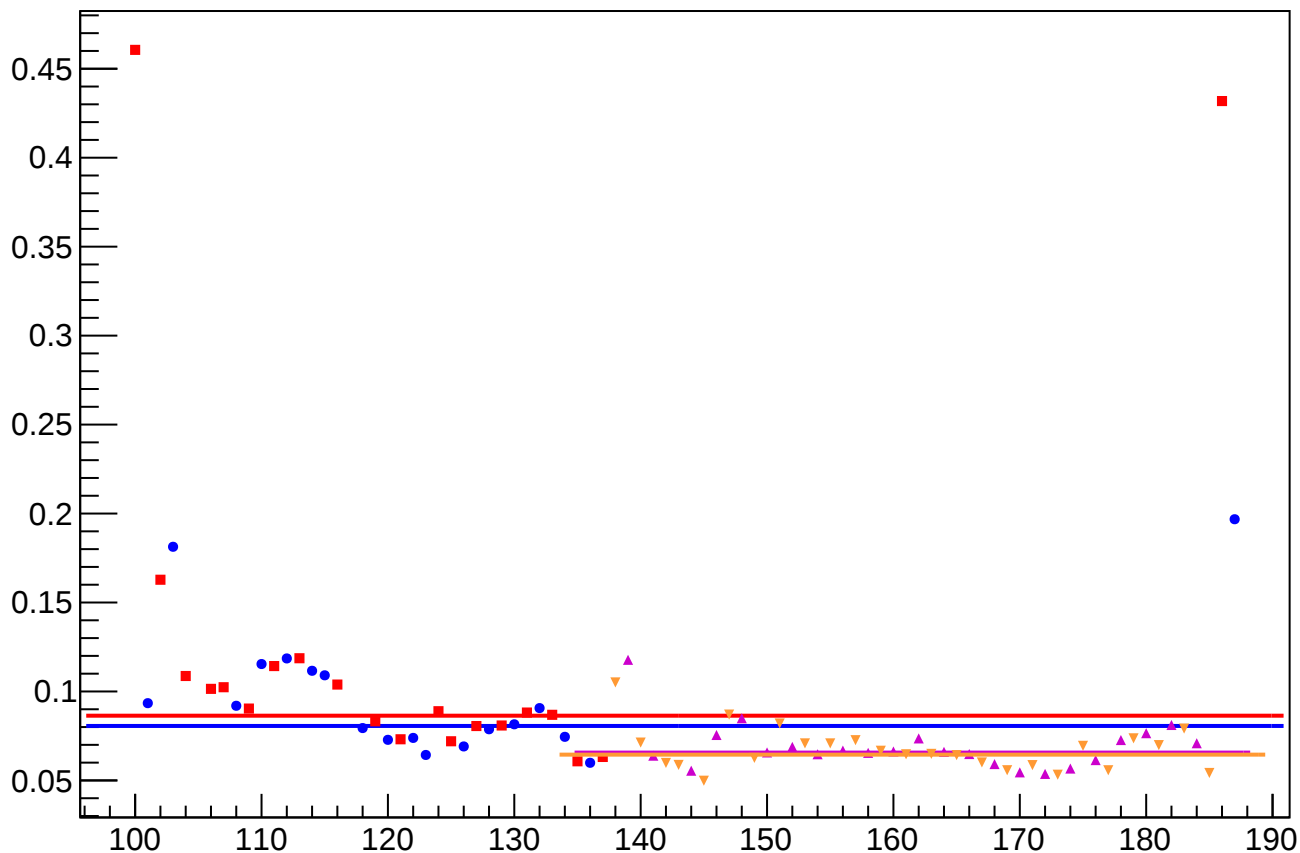
Right: 14.639 $\pm$ 0.000 χ^2/NDF : 3412005217.7/37

In: 15.381 $\pm$ 0.000 χ^2/NDF : 4183609035.6/40

Out: 15.387 $\pm$ 0.000 χ^2/NDF : 4875380076.2/44

All: 15.384 $\pm$ 0.000 χ^2/NDF : 9059081170.3/8

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: 0.086+/-0.000 χ^2/NDF : 1203460.6/19

Left In: 0.066+/-0.000 χ^2/NDF : 714703.1/22

Left: 0.065+/-0.000 χ^2/NDF : 1481007.6/47

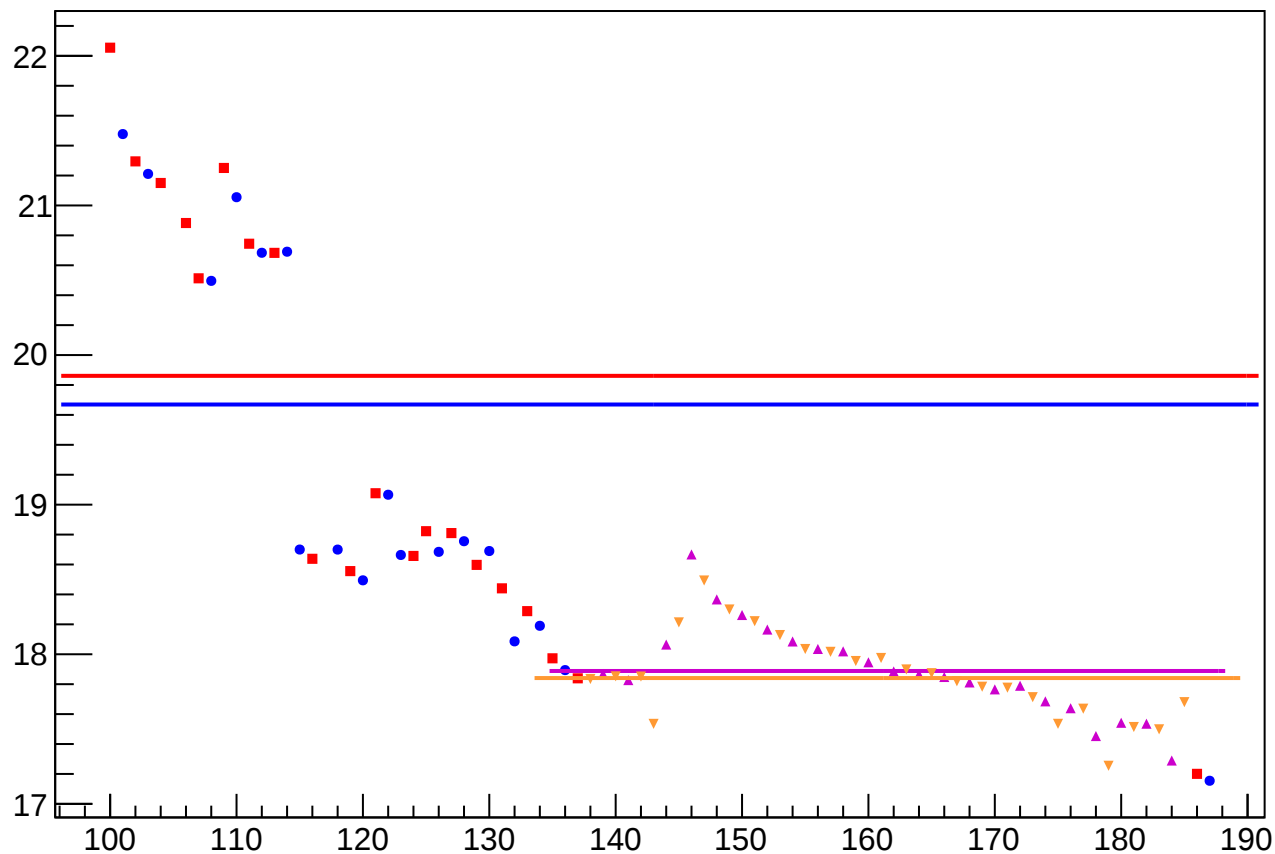
Right: 0.083+/-0.000 χ^2/NDF : 2108155.9/37

In: 0.069+/-0.000 χ^2/NDF : 1900736.9/40

Out: 0.068+/-0.000 χ^2/NDF : 2598330.4/44

All: 0.068+/-0.000 χ^2/NDF : 4499452.7/85

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: 19.861+/-0.000 χ^2/NDF : 11468190878.1/19

Left In: 17.888+/-0.000 χ^2/NDF : 1203002311.3/22

Left: 17.864+/-0.000 χ^2/NDF : 2506375288.6/47

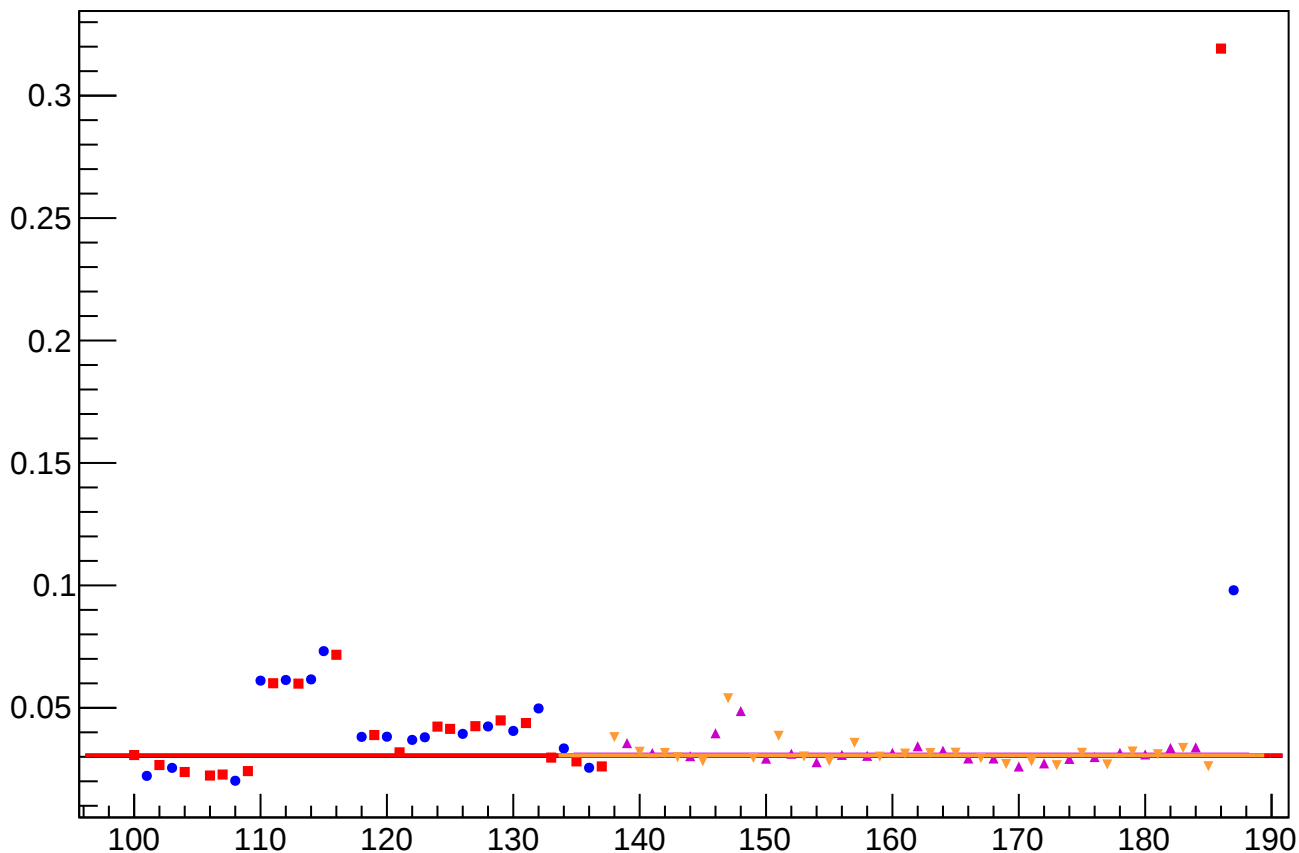
Right: 19.767+/-0.000 χ^2/NDF : 24036740334.9/37

In: 18.352+/-0.000 χ^2/NDF : 28013841411.1/40

Out: 18.353+/-0.000 χ^2/NDF : 32029953341.3/44

All: 18.353+/-0.000 χ^2/NDF : 60043798744.7

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: 1760460.0/19

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

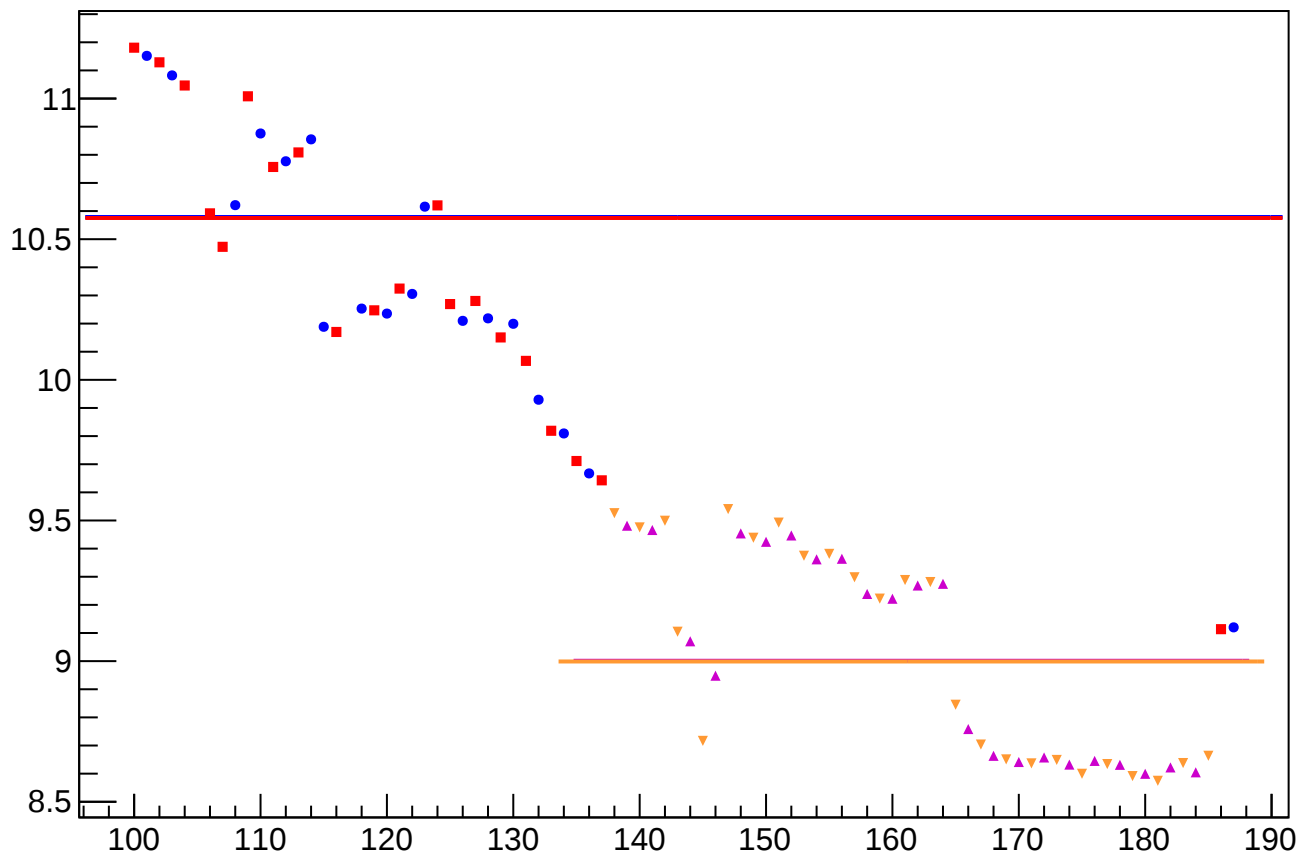
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 3215032.1/37

In: 0.031 $\pm$ 0.000 χ^2 /NDF:1910139.7/40

Out: 0.031 $\pm$ 0.000 χ^2 /NDF:2350966.8/44

All: 0.031 $\pm$ 0.000 χ^2 /NDF: 4261578.7/85

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.579+/-0.000 χ^2/NDF : 7612930737.4/17

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.575+/-0.000 χ^2/NDF : 5875181569.9/19

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

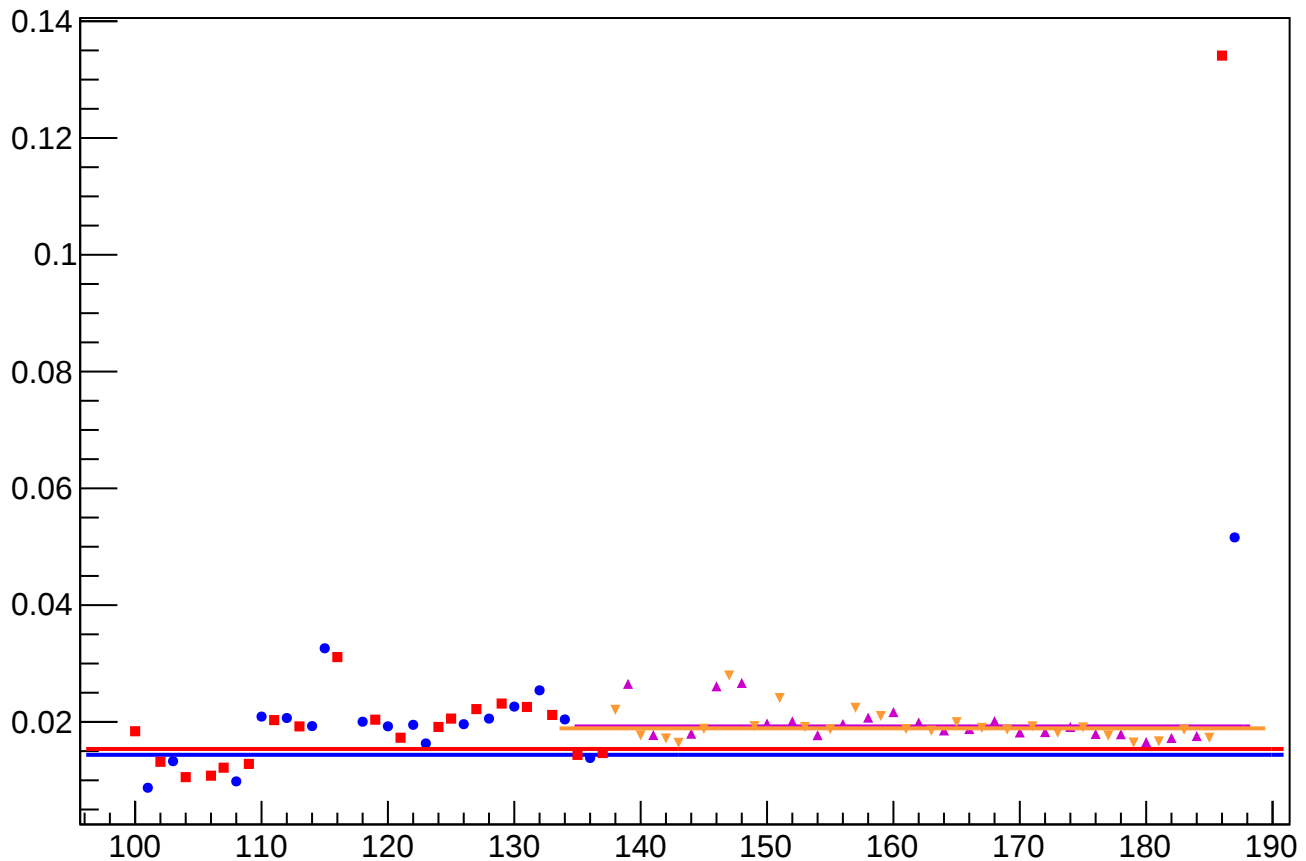
Right: 10.577+/-0.000 χ^2/NDF : 13488264633.6/37

In: 9.599+/-0.000 χ^2/NDF : 53267583859.5/40

Out: 9.550+/-0.000 χ^2/NDF : 53100360703.2/44

All: 9.574+/-0.000 χ^2/NDF : 106451201952.7

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: 0.015+/-0.000 χ^2/NDF : 1551720.0/19

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

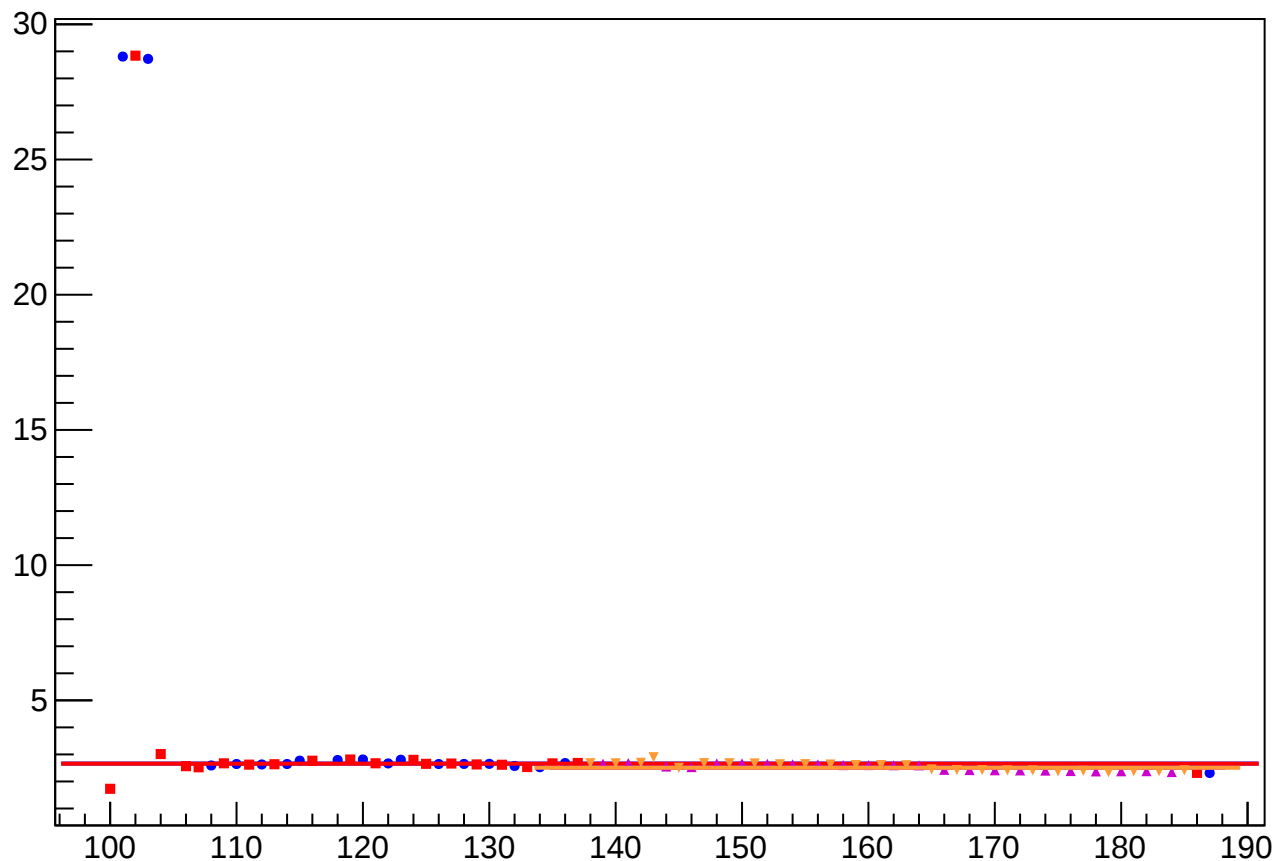
Right: 0.015+/-0.000 χ^2/NDF : 3130394.6/37

In: 0.017+/-0.000 χ^2/NDF : 2799805.3/40

Out: 0.018+/-0.000 χ^2/NDF : 2389109.7/44

All: 0.018+/-0.000 χ^2/NDF : 5194358.8/85

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: 2.657 $\pm$ 0.000 χ^2 /NDF: 72359130448.6/19

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

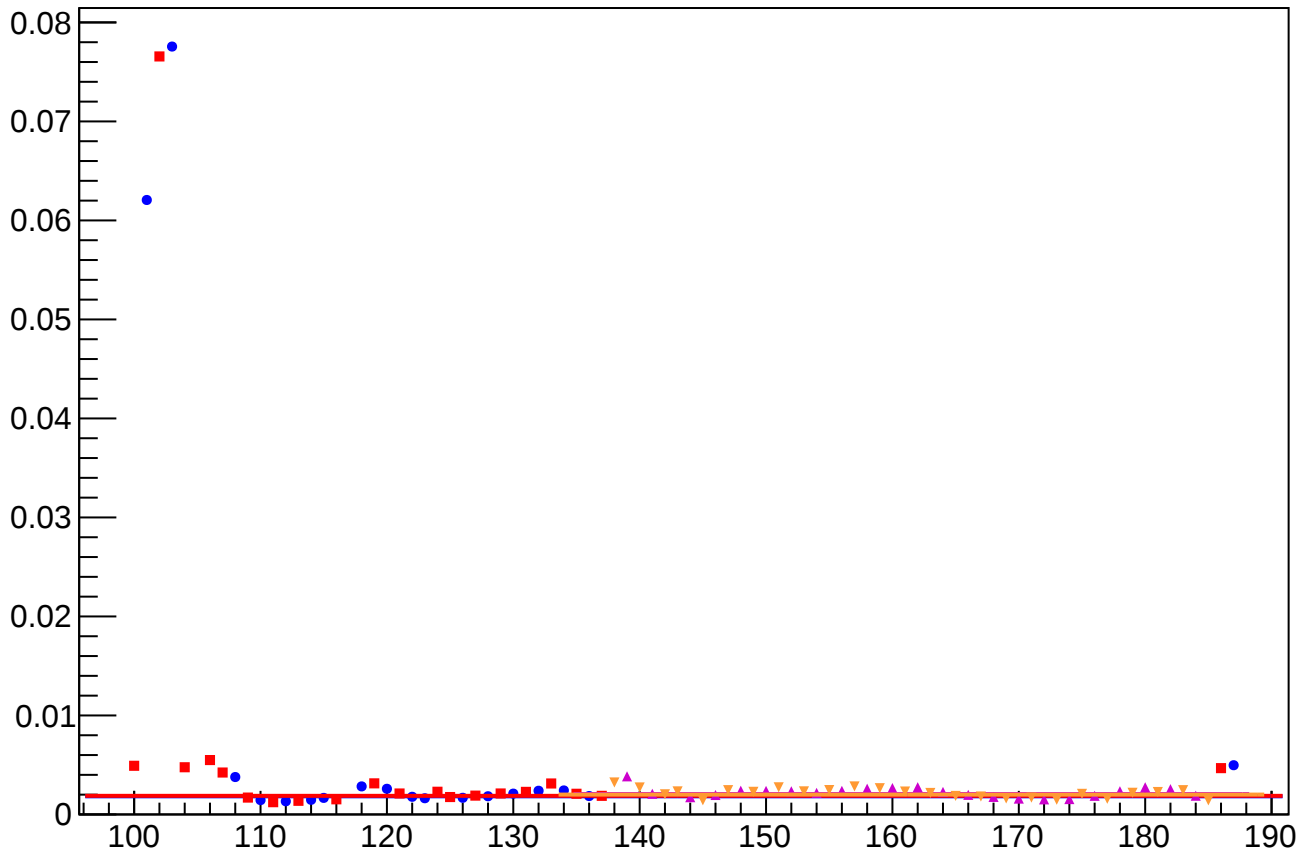
Right: 2.660 $\pm$ 0.000 χ^2 /NDF: 236314659670.6/37

In: 2.551 $\pm$ 0.000 χ^2 /NDF: 230457172337.3/40

Out: 2.549 $\pm$ 0.000 χ^2 /NDF: 159801689086.8/44

All: 2.550 $\pm$ 0.000 χ^2 /NDF: 390269467974.6

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 : 2586137.6/19

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

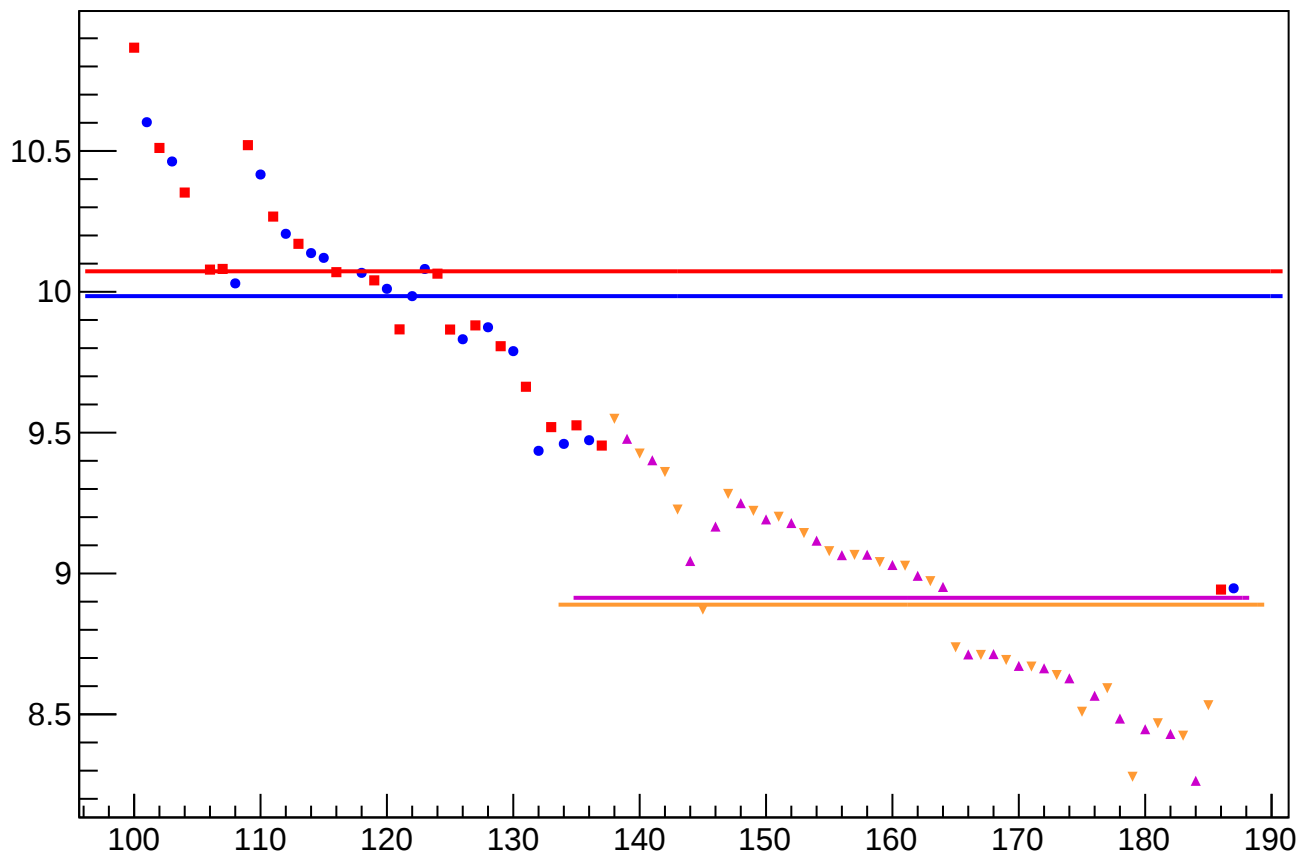
Right: 0.002+/-0.000 χ^2/NDF : 5364100.9/37

In: 0.002+/-0.000 χ^2/NDF :4177779.2/40

Out: 0.002+/-0.000 χ^2/NDF :4088246.6/44

All: 0.002+/-0.000 χ^2/NDF : 8268341.5/85

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.985 $\pm$ 0.000 χ^2 /NDF: 19764624599.8/17

Left Out: 8.889 $\pm$ 0.000 χ^2 /NDF: 34704694045.9/24

Right Out: 10.073 $\pm$ 0.000 χ^2 /NDF: 16633305462.7/19

Left In: 8.914 $\pm$ 0.000 χ^2 /NDF: 28497227562.7/22

Left: 8.901 $\pm$ 0.000 χ^2 /NDF: 63312247922.6/47

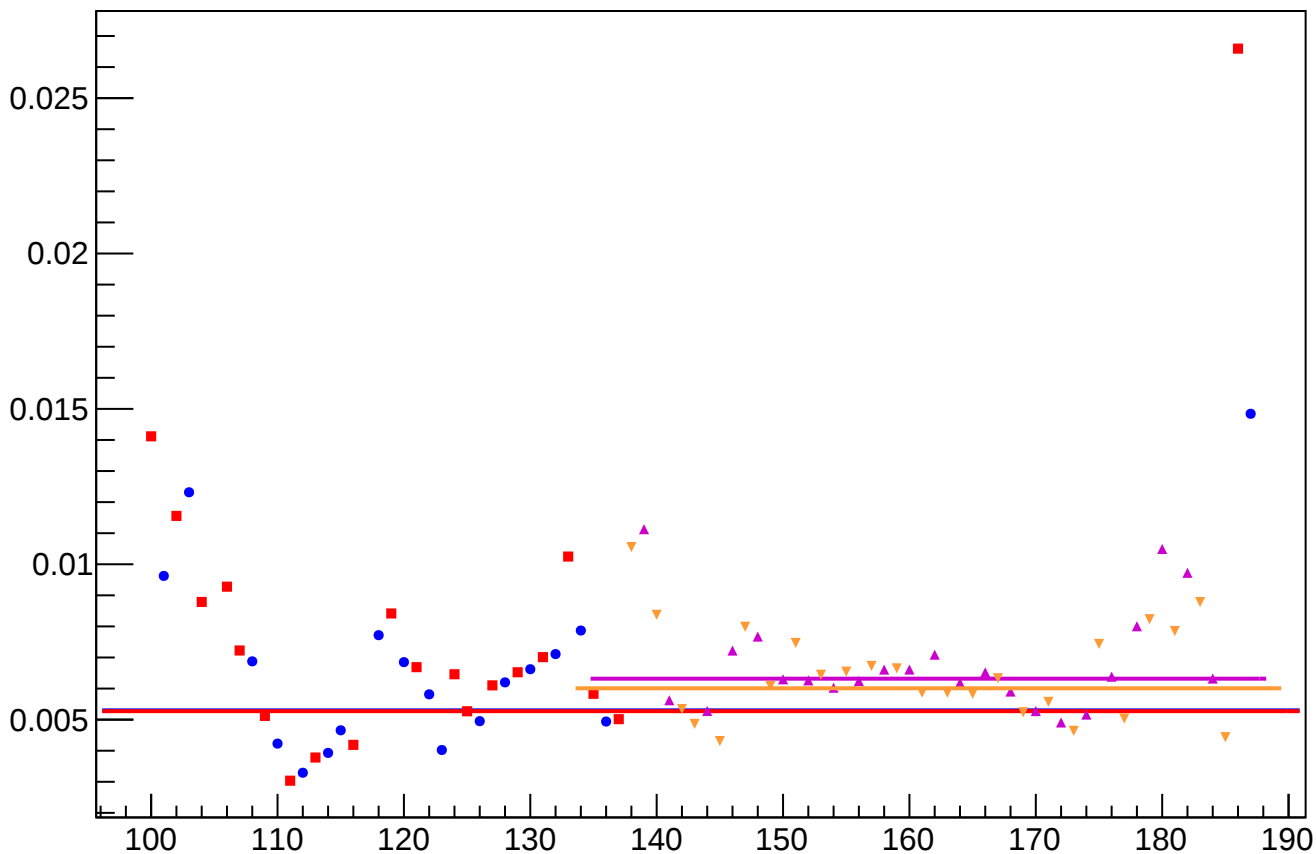
Right: 10.030 $\pm$ 0.000 χ^2 /NDF: 37123433545.5/37

In: 9.281 $\pm$ 0.000 χ^2 /NDF: 185262364883.2/40

Out: 9.272 $\pm$ 0.000 χ^2 /NDF: 233501336978.3/44

All: 9.276 $\pm$ 0.000 χ^2 /NDF: 418788509102.0

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 : 2132002.4/19

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

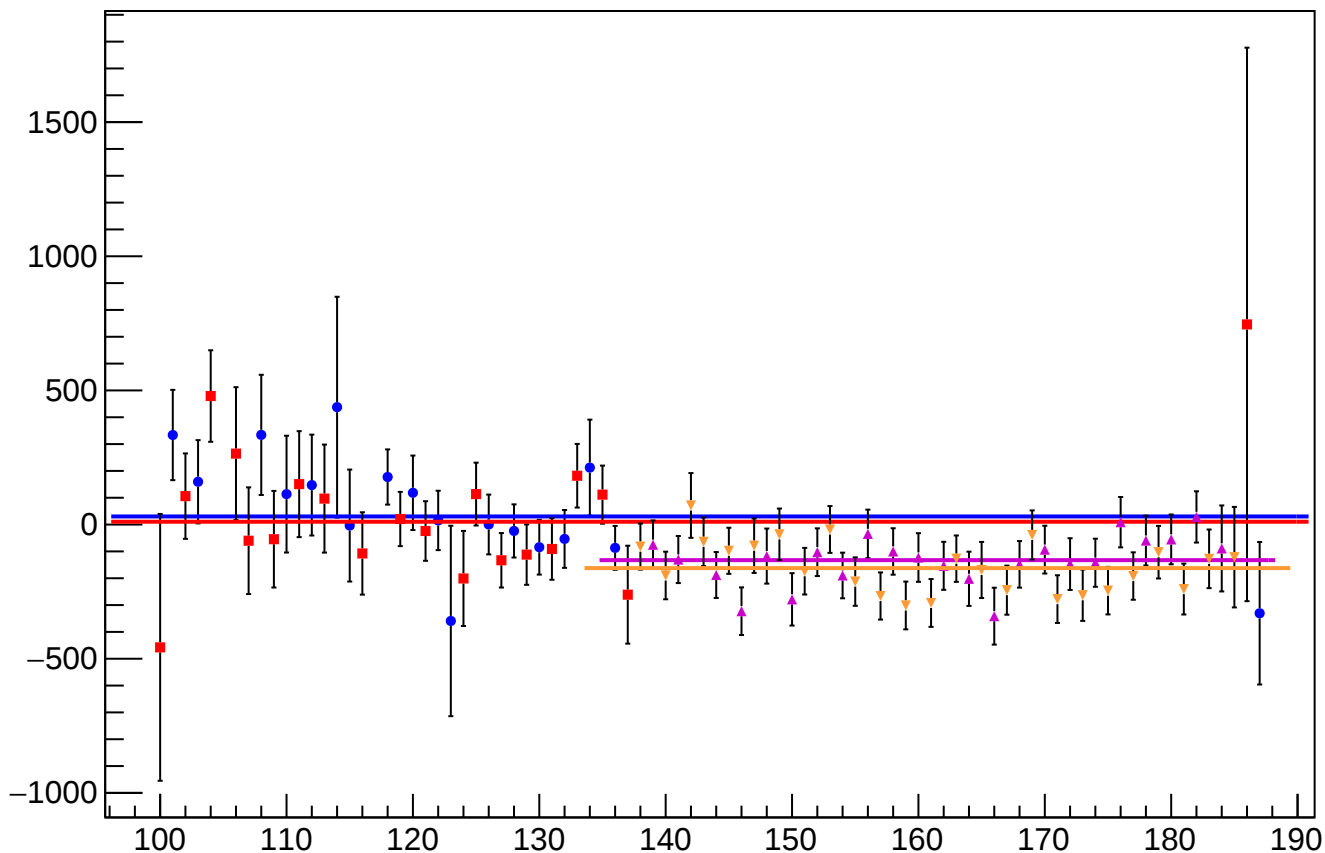
Right: 0.005+/-0.000 χ^2/NDF : 3501536.1/37

In: 0.006+/-0.000 χ^2/NDF :2704880.6/40

Out: 0.006+/-0.000 χ^2/NDF :3585660.5/44

All: 0.006+/-0.000 χ^2/NDF : 6312305.2/85

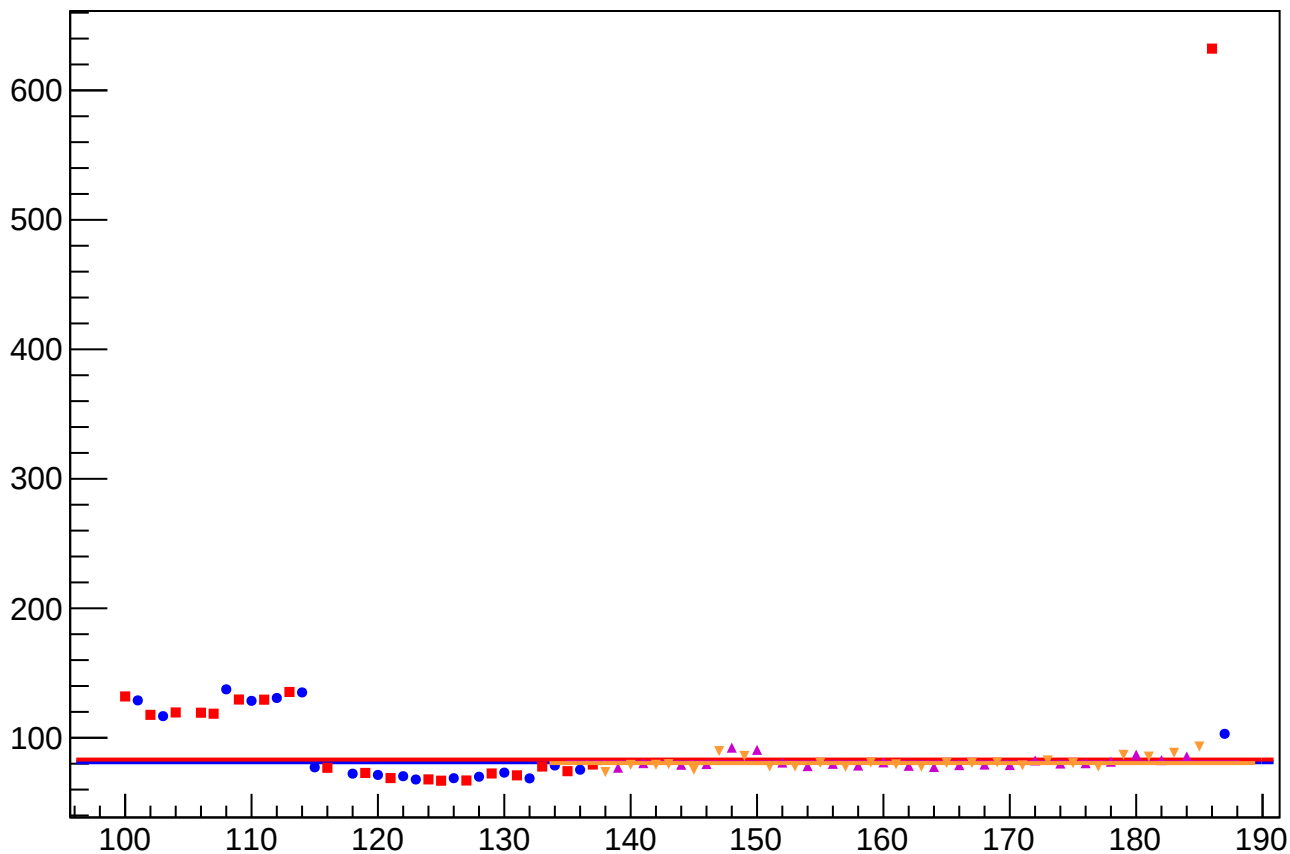
reg_asym_sam1_mean vs Slug, Sign Corrected



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: 10.637 ± 32.171 $\chi^2/\text{NDF}: 23.3/19$
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: 20.470 ± 22.725 $\chi^2/\text{NDF}: 41.7/37$
In: -88.995 ± 16.606 $\chi^2/\text{NDF}: 57.7/40$
Out: -118.365 ± 16.196 $\chi^2/\text{NDF}: 70.6/44$
All: -104.047 ± 11.595 $\chi^2/\text{NDF}: 129.9/85$

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: 83.180 $\pm$ 0.023 χ^2 /NDF: 1475680.0/19

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

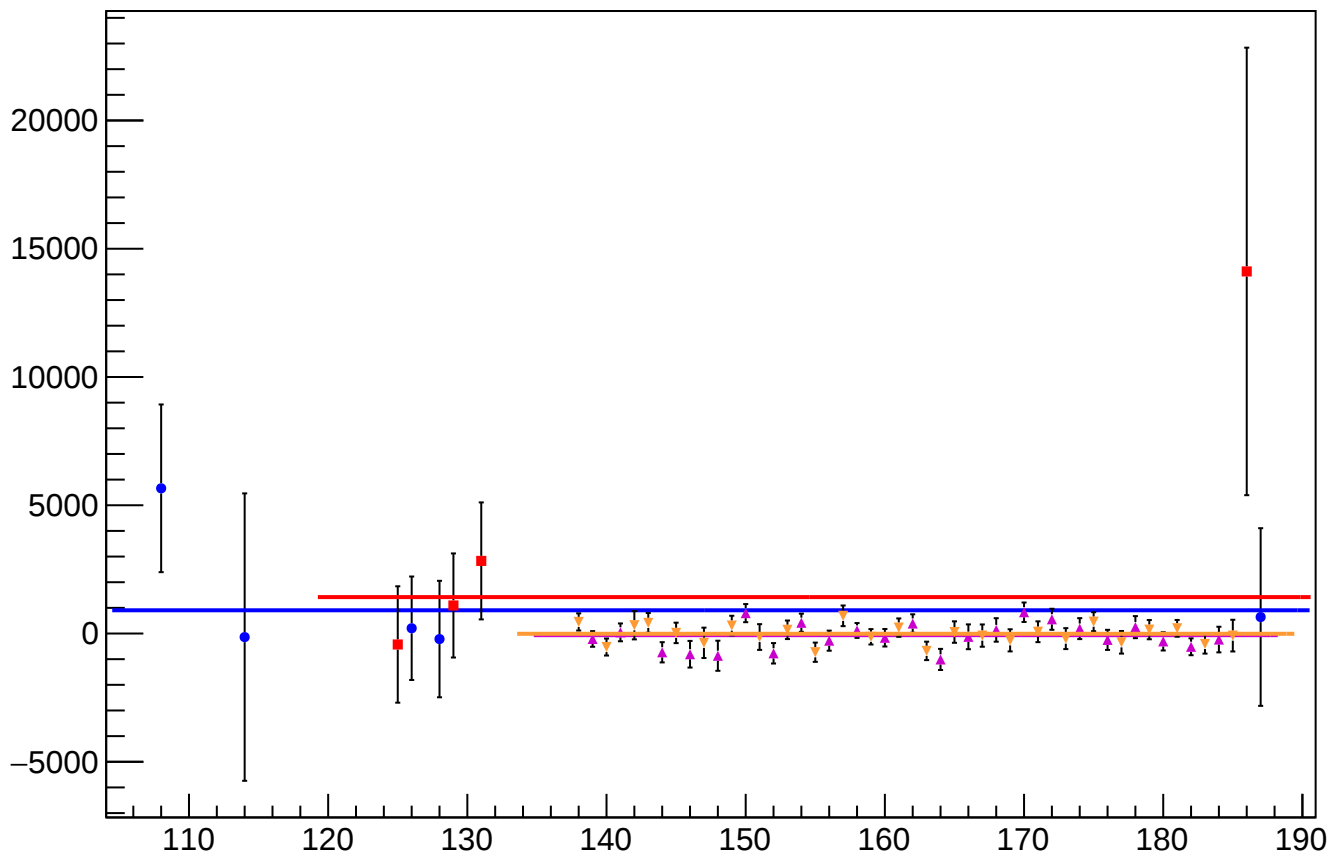
Right: 82.141 $\pm$ 0.016 χ^2 /NDF: 2301507.3/37

In: 81.039 $\pm$ 0.012 χ^2 /NDF: 893929.0/40

Out: 81.148 $\pm$ 0.011 χ^2 /NDF: 1576302.6/44

All: 81.095 $\pm$ 0.008 χ^2 /NDF: 2470276.3/85

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: 905.838 ± 1241.497 $\chi^2/\text{NDF}: 2.5/4$

Left Out: -10.486 ± 78.391 $\chi^2/\text{NDF}: 22.5/24$

Right Out: 1419.732 ± 1247.349 $\chi^2/\text{NDF}: 3.2/3$

Left In: -64.591 ± 80.047 $\chi^2/\text{NDF}: 37.4/22$

Left: -36.973 ± 56.007 $\chi^2/\text{NDF}: 60.2/47$

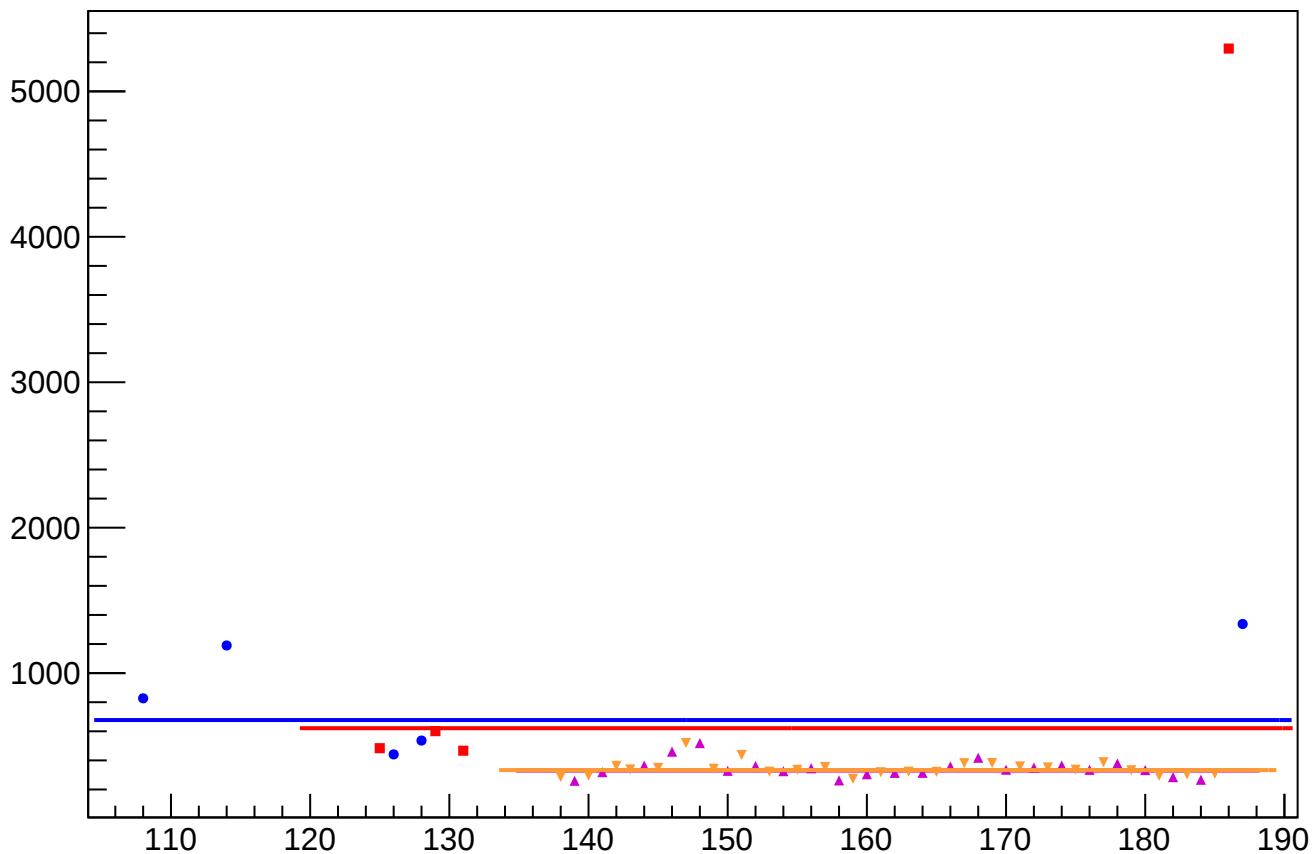
Right: 1161.577 ± 879.933 $\chi^2/\text{NDF}: 5.8/8$

In: -60.574 ± 79.881 $\chi^2/\text{NDF}: 40.5/27$

Out: -4.860 ± 78.237 $\chi^2/\text{NDF}: 27.0/28$

All: -32.137 ± 55.894 $\chi^2/\text{NDF}: 67.8/56$

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: 621.304+/-0.882 χ^2/NDF : 590757.7/3

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

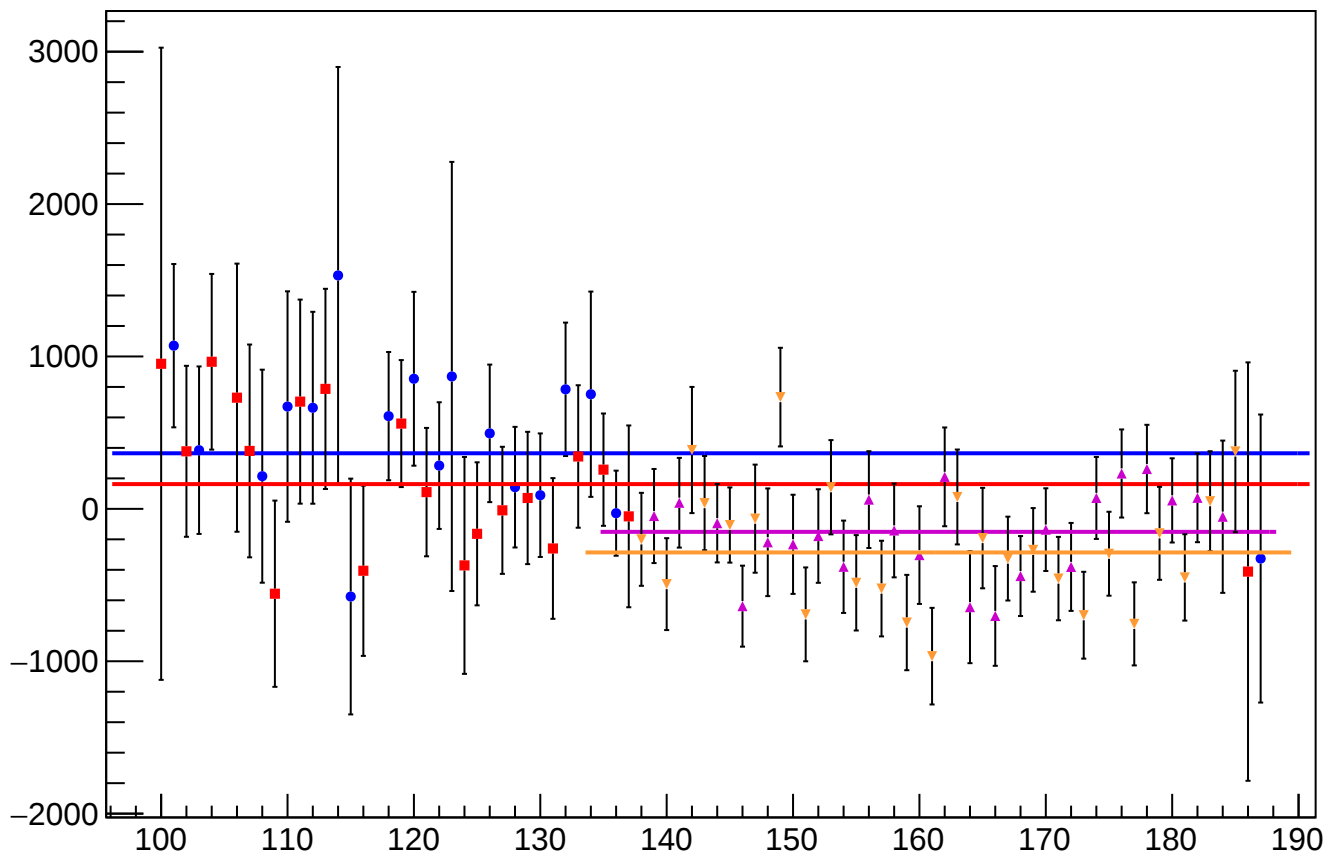
Right: 649.447+/-0.622 χ^2/NDF : 721626.5/8

In: 331.423+/-0.056 χ^2/NDF : 1080712.9/27

Out: 334.366+/-0.055 χ^2/NDF : 1289132.6/28

All: 332.925+/-0.040 χ^2/NDF : 2371231.2/56

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 364.700 ± 120.305 $\chi^2/\text{NDF}: 10.2/17$

Left Out: -286.030 ± 61.095 $\chi^2/\text{NDF}: 36.6/24$

Right Out: 162.432 ± 120.266 $\chi^2/\text{NDF}: 10.3/19$

Left In: -150.920 ± 62.818 $\chi^2/\text{NDF}: 18.7/22$

Left: -220.353 ± 43.797 $\chi^2/\text{NDF}: 57.6/47$

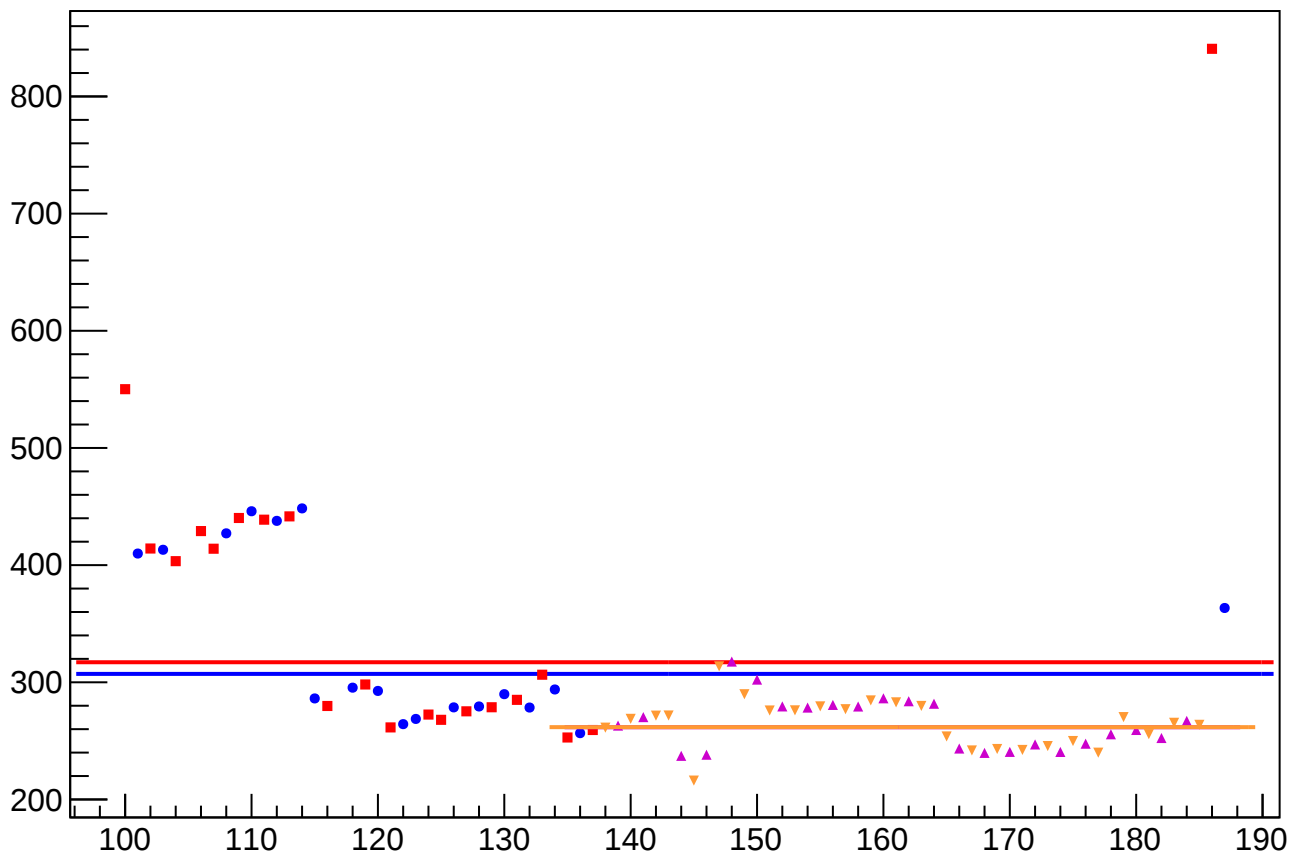
Right: 263.533 ± 85.055 $\chi^2/\text{NDF}: 21.9/37$

In: -40.456 ± 55.684 $\chi^2/\text{NDF}: 43.4/40$

Out: -194.040 ± 54.469 $\chi^2/\text{NDF}: 57.9/44$

All: -118.941 ± 38.938 $\chi^2/\text{NDF}: 105.1/85$

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: 317.115+/-0.085 χ^2/NDF : 914658.8/19

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

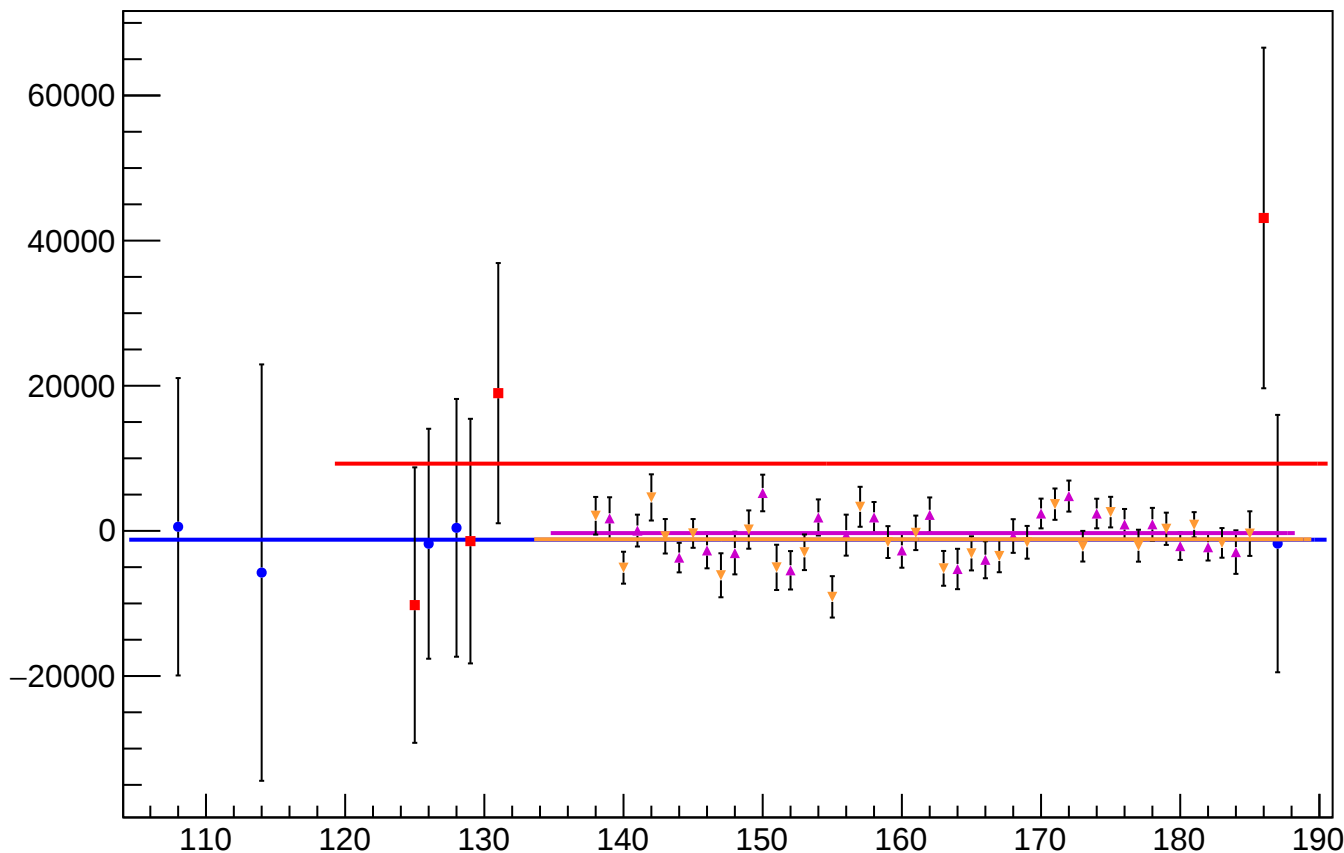
Right: 312.143+/-0.060 χ^2/NDF : 1433795.0/37

In: 271.391+/-0.039 χ^2/NDF : 965637.1/40

Out: 273.084+/-0.039 χ^2/NDF : 1485139.8/44

All: 272.256+/-0.028 χ^2/NDF : 2451721.9/85

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -1215.089+/-8473.188 χ^2/NDF : 0.0/4

Left Out: -1161.443+/-469.036 χ^2/NDF :38.8/24

Right Out: 9265.876+/-9439.536 χ^2/NDF : 3.8/3

Left In: -304.366+/-483.778 χ^2/NDF :35.4/22

Left: -746.162+/-336.750 χ^2/NDF : 75.7/47

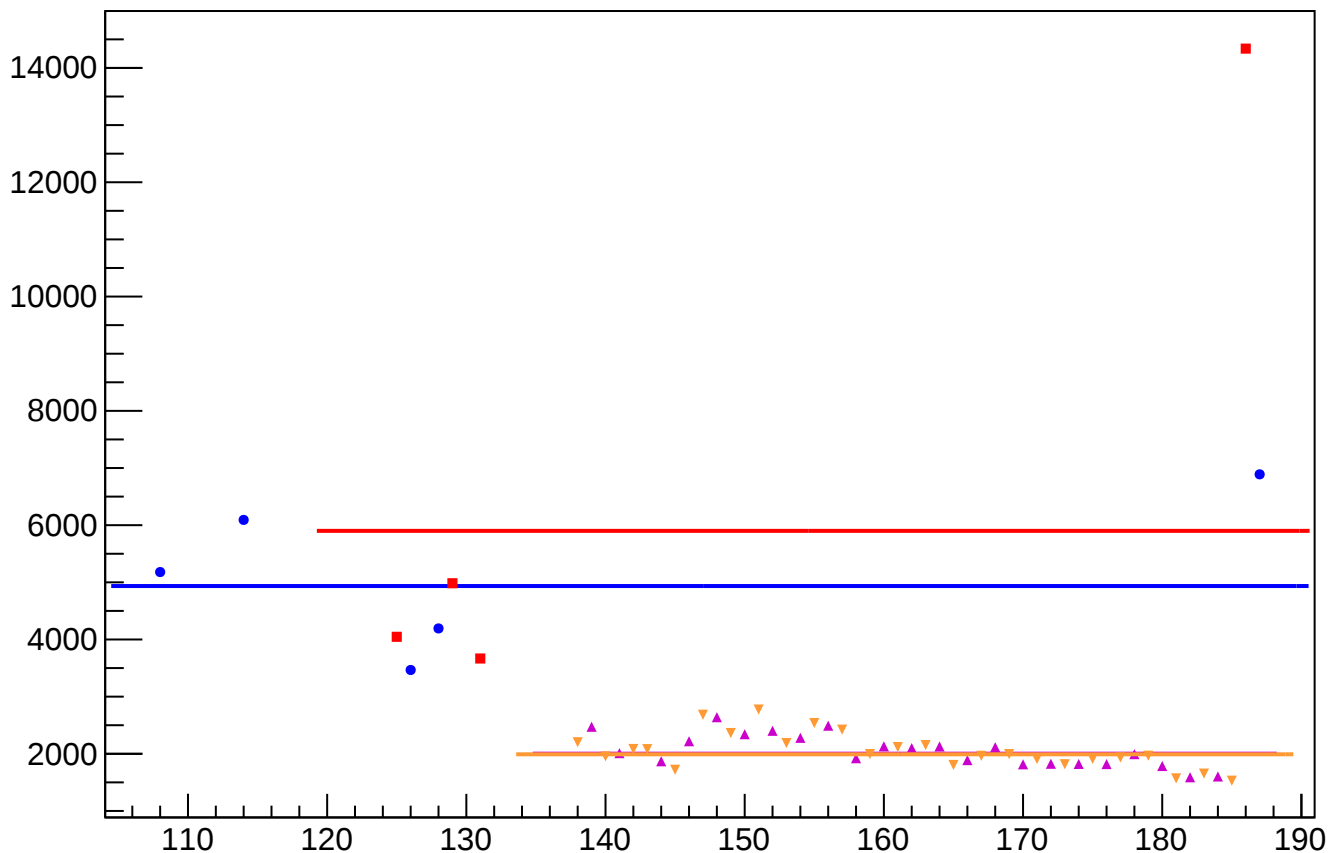
Right: 3461.611+/-6305.504 χ^2/NDF : 4.6/8

In: -307.325+/-482.992 χ^2/NDF :35.4/27

Out: -1135.761+/-468.458 χ^2/NDF :43.8/28

All: -734.195+/-336.271 χ^2/NDF : 80.7/56

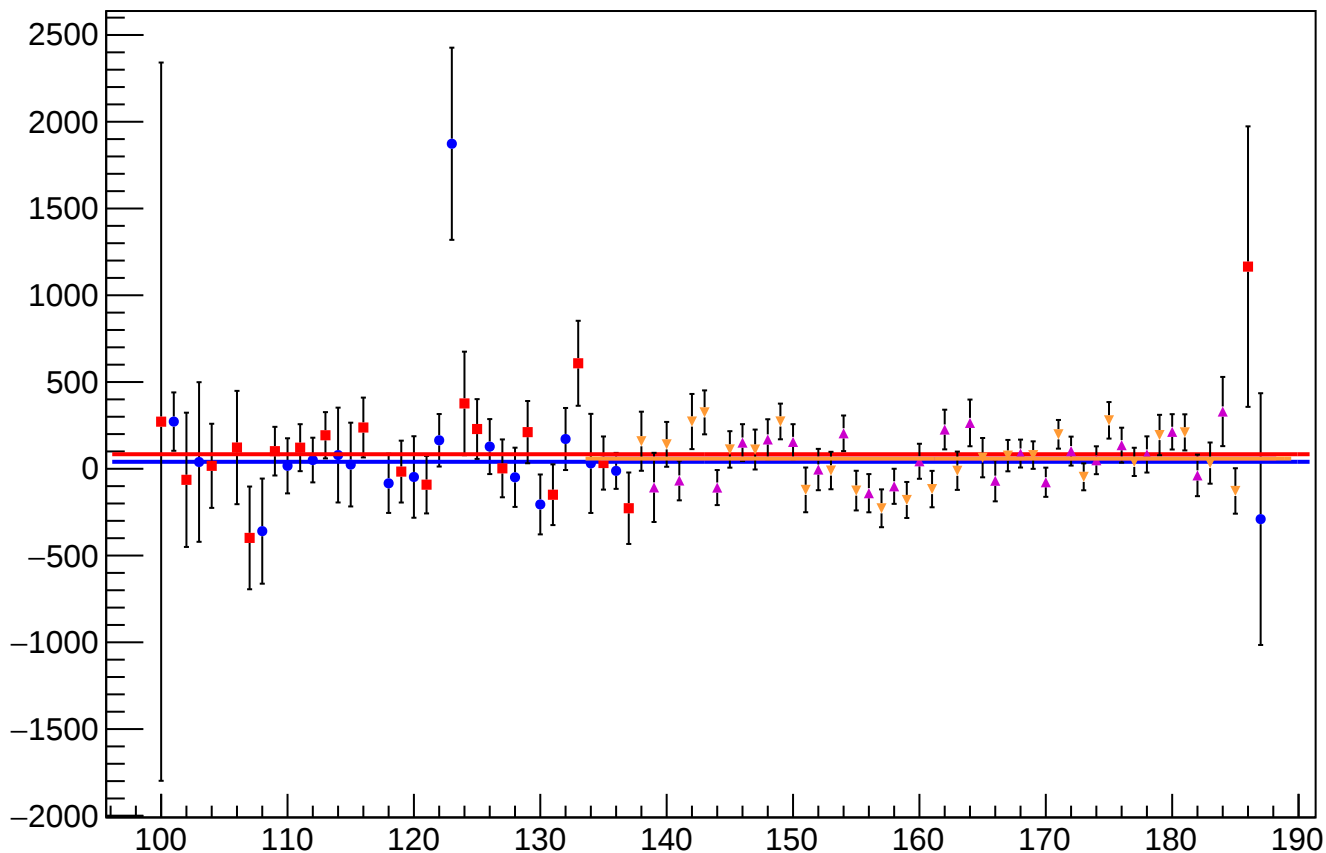
asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4935.257 $\pm$ 5.991 χ^2/NDF : 48497.2/4
 Left Out: 1991.105 $\pm$ 0.332 χ^2/NDF : 726310.6/24
 Right Out: 5900.636 $\pm$ 6.675 χ^2/NDF : 314540.8/3
 Left In: 2002.154 $\pm$ 0.342 χ^2/NDF : 585947.4/22

Left: 1996.458 $\pm$ 0.238 χ^2/NDF : 1312795.7/47
 Right: 5366.018 $\pm$ 4.459 χ^2/NDF : 374622.4/8
 In: 2011.684 $\pm$ 0.342 χ^2/NDF : 873323.4/27
 Out: 2000.733 $\pm$ 0.331 χ^2/NDF : 1383072.8/28
 All: 2006.041 $\pm$ 0.238 χ^2/NDF : 2256926.0/56

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: 83.898 $\pm$ 43.151 χ^2 /NDF: 18.9/19

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

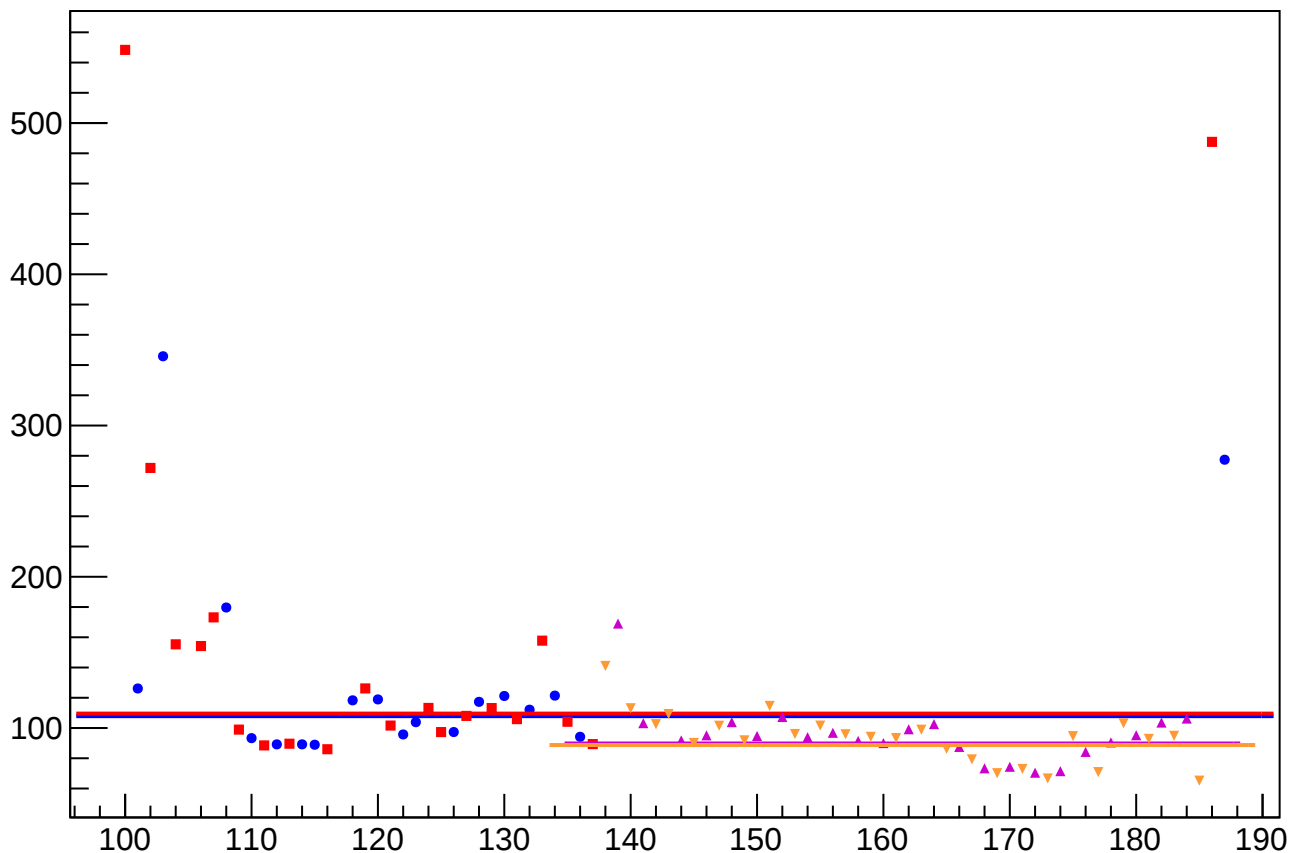
Right: 62.276 $\pm$ 30.654 χ^2 /NDF: 39.0/37

In: 55.397 $\pm$ 19.581 χ^2 /NDF:49.1/40

Out: 63.804 $\pm$ 18.982 χ^2 /NDF:66.0/44

All: 59.731 $\pm$ 13.629 χ^2 /NDF: 115.3/85

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: 109.527 $\pm$ 0.031 χ^2 /NDF: 1356208.1/19

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

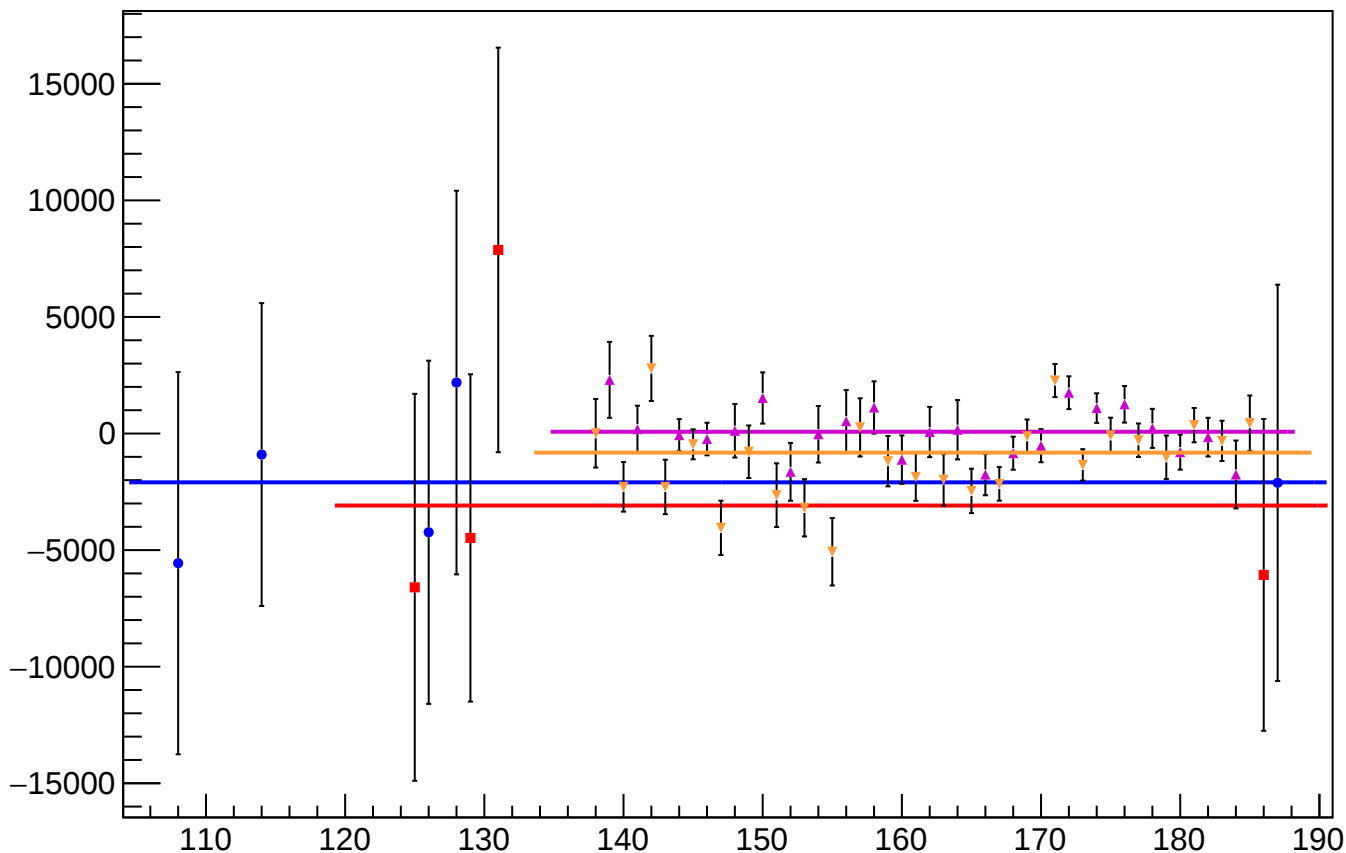
Right: 108.694 $\pm$ 0.022 χ^2 /NDF: 2310866.5/37

In: 93.420 $\pm$ 0.014 χ^2 /NDF:2113922.8/40

Out: 92.769 $\pm$ 0.013 χ^2 /NDF:2809554.4/44

All: 93.084 $\pm$ 0.010 χ^2 /NDF: 4924615.7/85

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: -3089.101 ± 3766.833 $\chi^2/\text{NDF}: 2.0/3$

Left In: 76.204 ± 186.651 $\chi^2/\text{NDF}: 28.3/22$

Left: -376.610 ± 131.202 $\chi^2/\text{NDF}: 108.1/47$

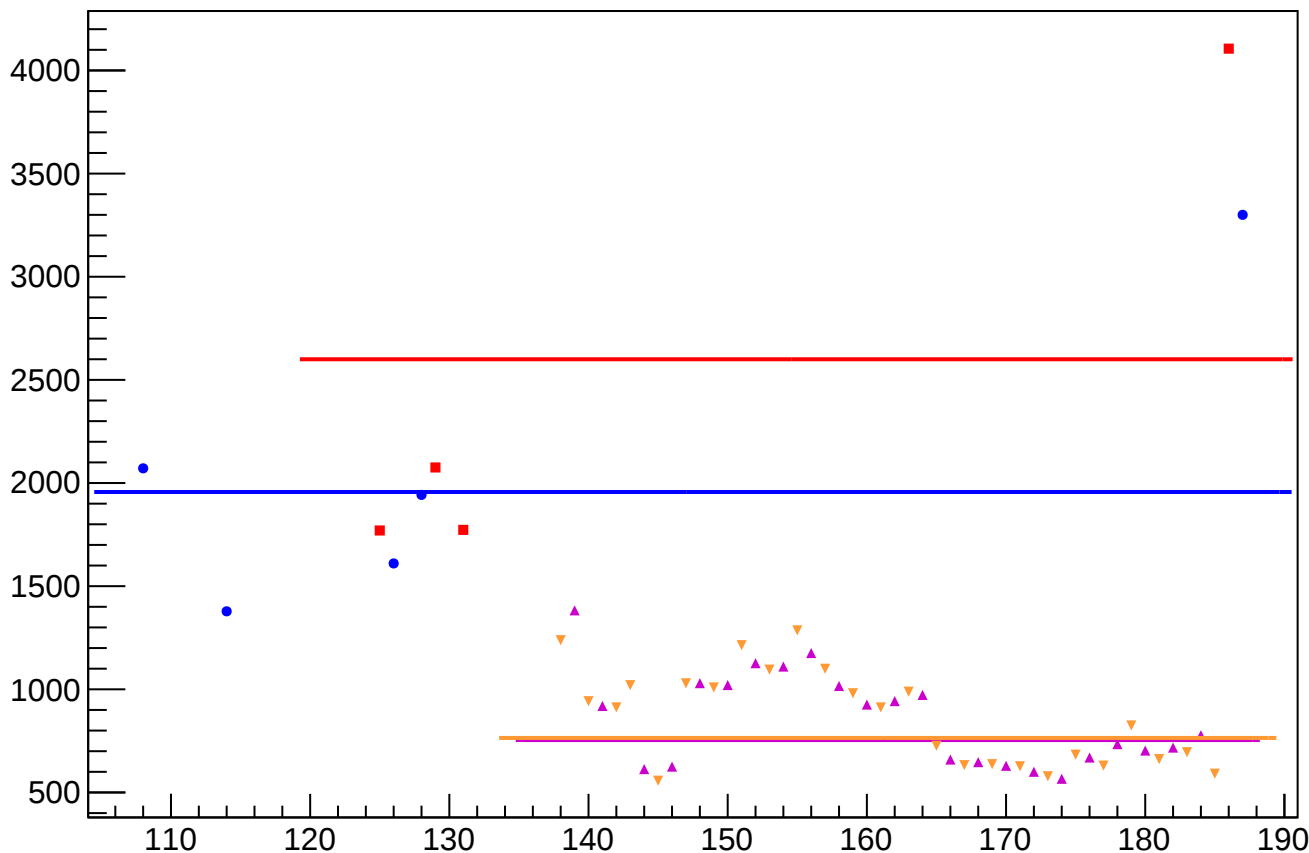
Right: -2542.766 ± 2530.584 $\chi^2/\text{NDF}: 2.6/8$

In: 69.747 ± 186.373 $\chi^2/\text{NDF}: 29.2/27$

Out: -824.308 ± 184.243 $\chi^2/\text{NDF}: 70.6/28$

All: -382.418 ± 131.026 $\chi^2/\text{NDF}: 111.5/56$

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: 2599.953+/-2.664 χ^2/NDF : 150804.4/3

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

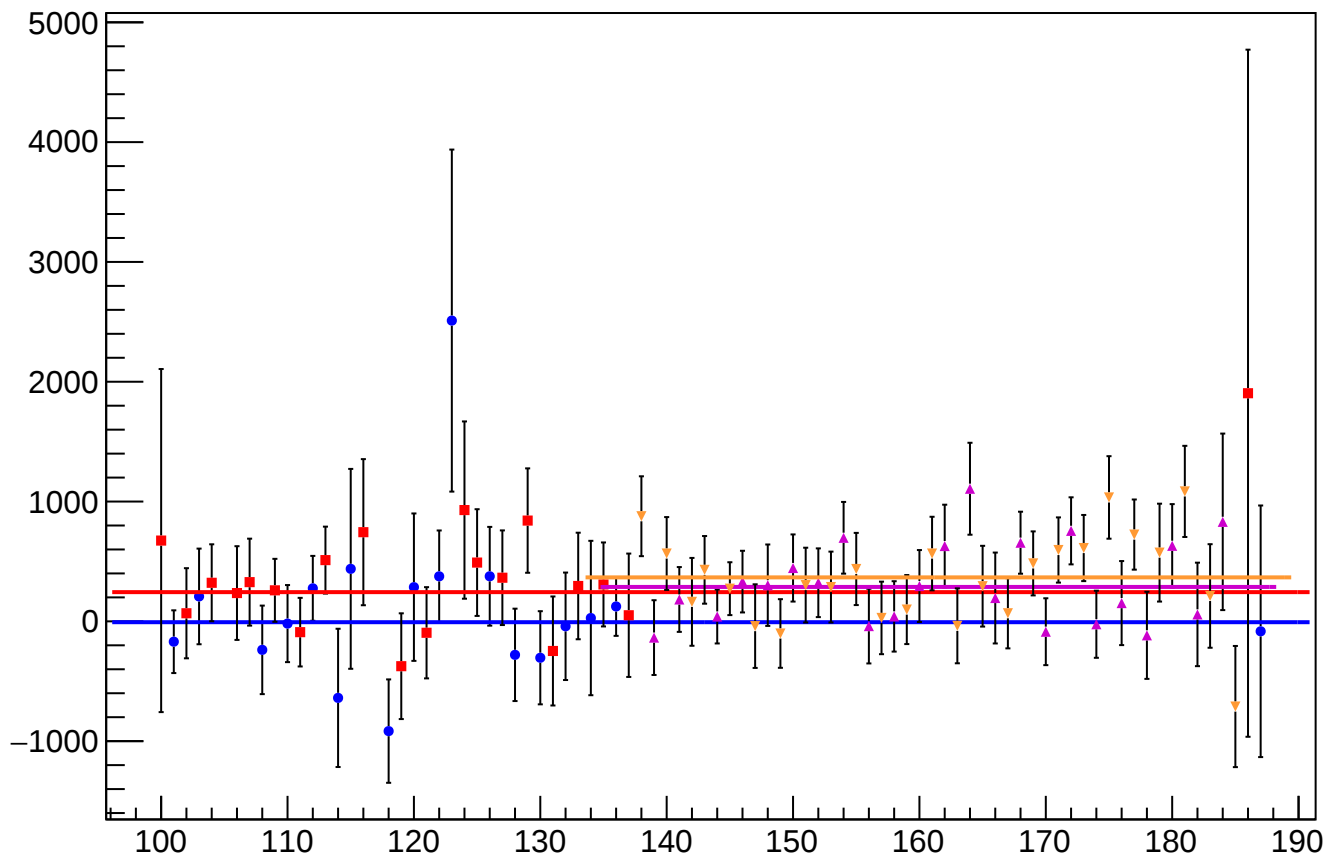
Right: 2246.908+/-1.789 χ^2/NDF : 253510.6/8

In: 757.605+/-0.132 χ^2/NDF : 2331110.9/27

Out: 768.671+/-0.130 χ^2/NDF : 2940626.0/28

All: 763.202+/-0.093 χ^2/NDF : 5275302.8/56

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: 243.849 ± 89.065 $\chi^2/\text{NDF}: 11.0/19$

Left In: 287.246 ± 64.141 $\chi^2/\text{NDF}: 23.9/22$

Left: 328.527 ± 44.557 $\chi^2/\text{NDF}: 52.9/47$

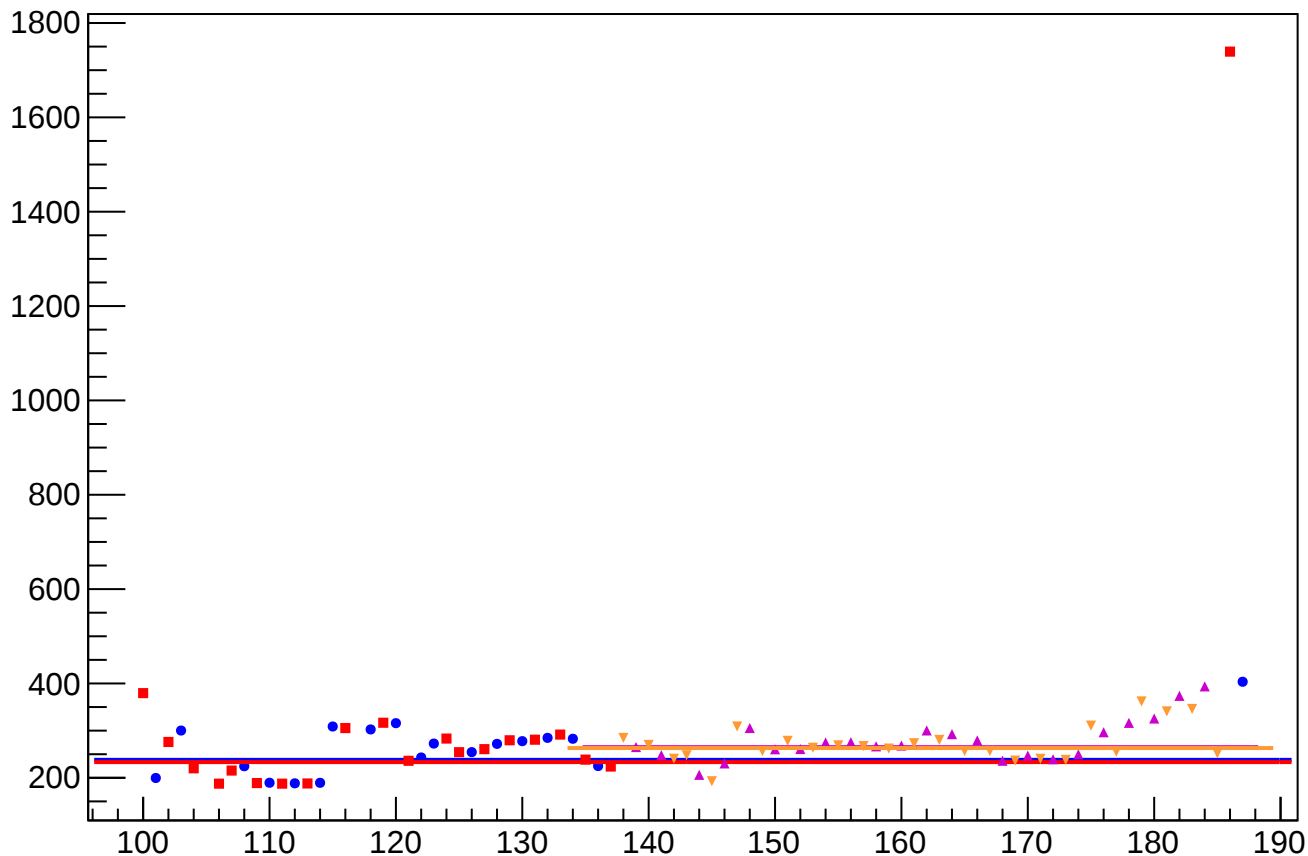
Right: 123.923 ± 64.355 $\chi^2/\text{NDF}: 29.4/37$

In: 192.497 ± 52.818 $\chi^2/\text{NDF}: 45.3/40$

Out: 326.870 ± 50.853 $\chi^2/\text{NDF}: 40.5/44$

All: 262.229 ± 36.634 $\chi^2/\text{NDF}: 89.2/85$

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 238.061+/-0.066 χ^2/NDF : 440131.1/17

Left Out: 263.103+/-0.044 χ^2/NDF : 642226.0/24

Right Out: 233.308+/-0.063 χ^2/NDF : 997301.3/19

Left In: 264.923+/-0.045 χ^2/NDF : 609024.7/22

Left: 263.981+/-0.032 χ^2/NDF : 1252084.1/47

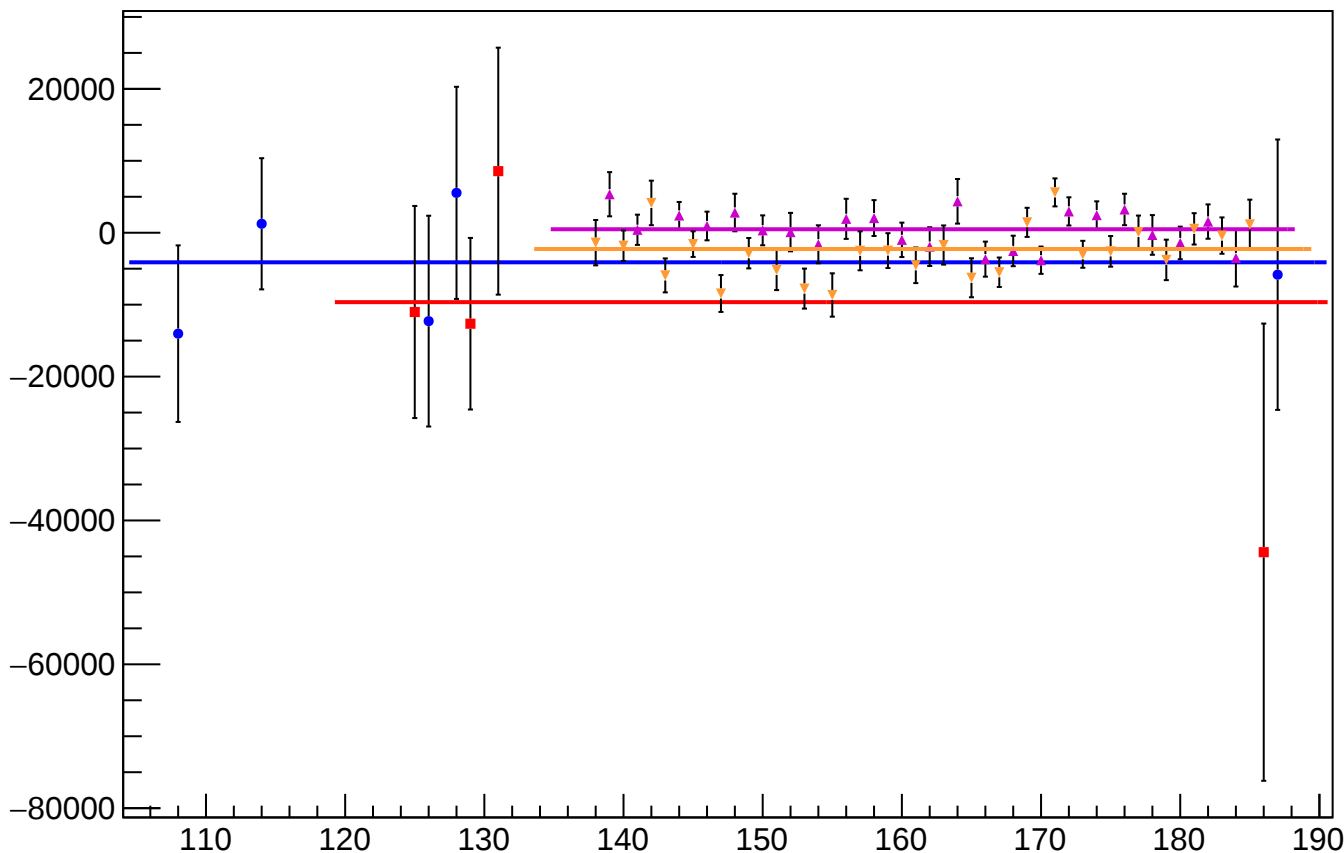
Right: 235.579+/-0.046 χ^2/NDF : 1440155.1/37

In: 256.276+/-0.037 χ^2/NDF : 1162072.2/40

Out: 253.389+/-0.036 χ^2/NDF : 1790385.5/44

All: 254.778+/-0.026 χ^2/NDF : 2955558.4/85

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: -9649.514+/-7902.495 χ^2/NDF : 2.4/3

Left In: 485.590+/-487.465 χ^2/NDF :24.8/22

Left: -921.890+/-340.321 χ^2/NDF : 93.4/47

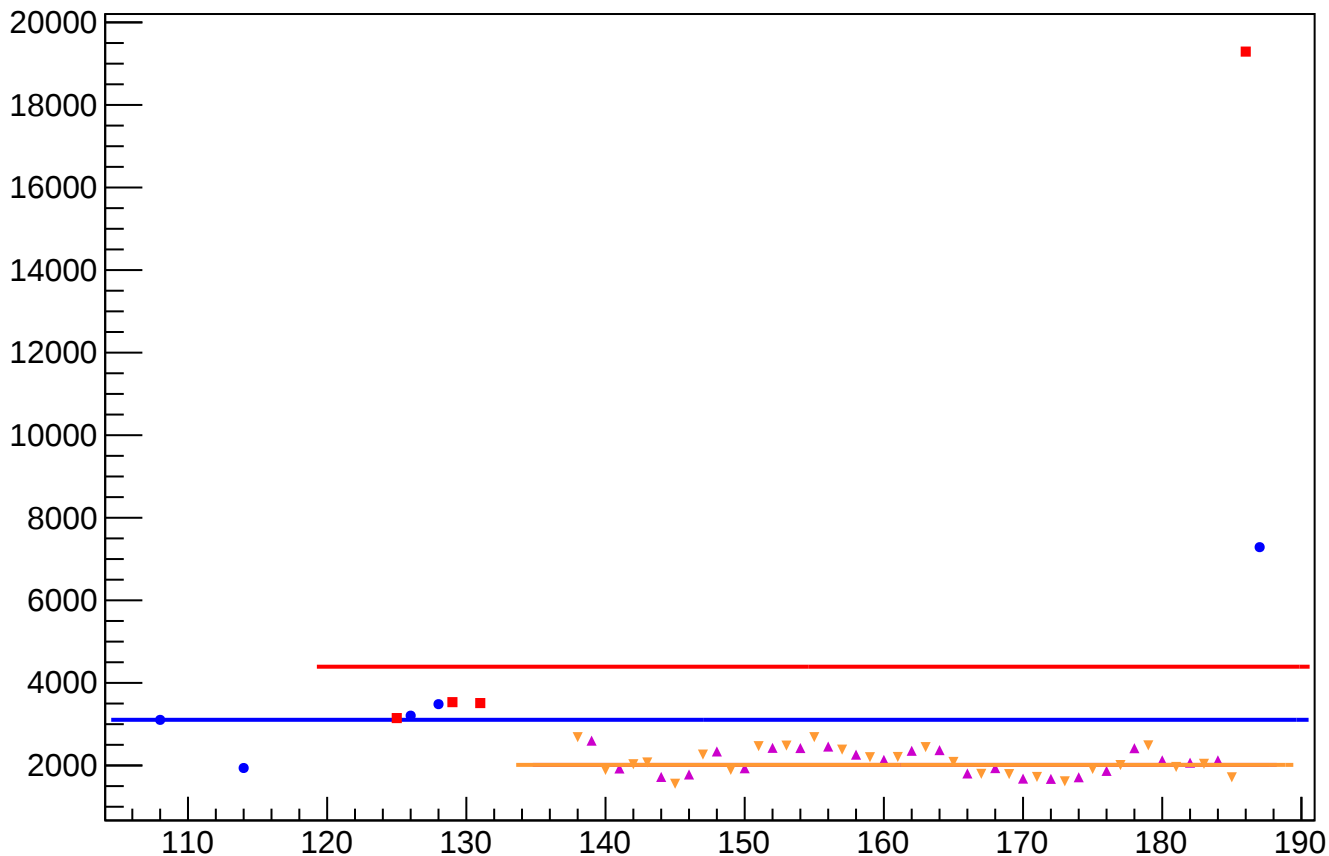
Right: -6007.807+/-4624.199 χ^2/NDF : 4.5/8

In: 452.240+/-485.694 χ^2/NDF :27.2/27

Out: -2286.835+/-474.478 χ^2/NDF :55.6/28

All: -949.289+/-339.403 χ^2/NDF : 99.0/56

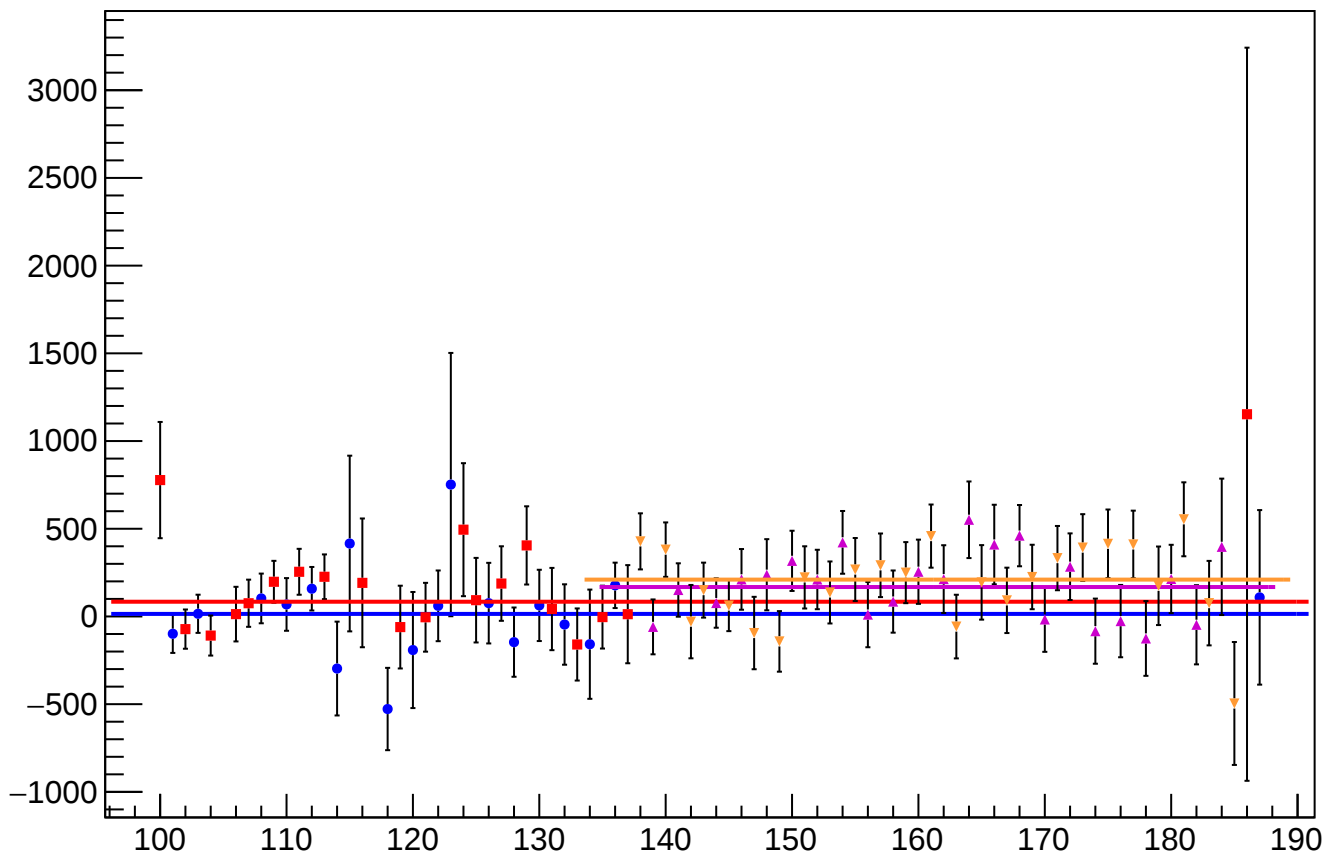
asym_sam4_correction_rms vs Slug, Sign Corrected



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: 4392.298 +/- 5.588 χ^2/NDF : 469419.8/3
 Left In: 2013.245 +/- 0.345 χ^2/NDF : 662077.8/22

Left: 2013.686 +/- 0.241 χ^2/NDF : 1497737.9/47
 Right: 3546.456 +/- 3.270 χ^2/NDF : 637472.2/8
 In: 2021.173 +/- 0.343 χ^2/NDF : 868201.5/27
 Out: 2022.679 +/- 0.336 χ^2/NDF : 1485555.8/28
 All: 2021.944 +/- 0.240 χ^2/NDF : 2353767.2/56

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 14.537+/-42.211 χ^2/NDF : 14.5/17

Left Out: 210.086+/-37.093 χ^2/NDF : 27.5/24

Right Out: 84.016+/-39.030 χ^2/NDF : 19.4/19

Left In: 167.822+/-38.718 χ^2/NDF : 21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

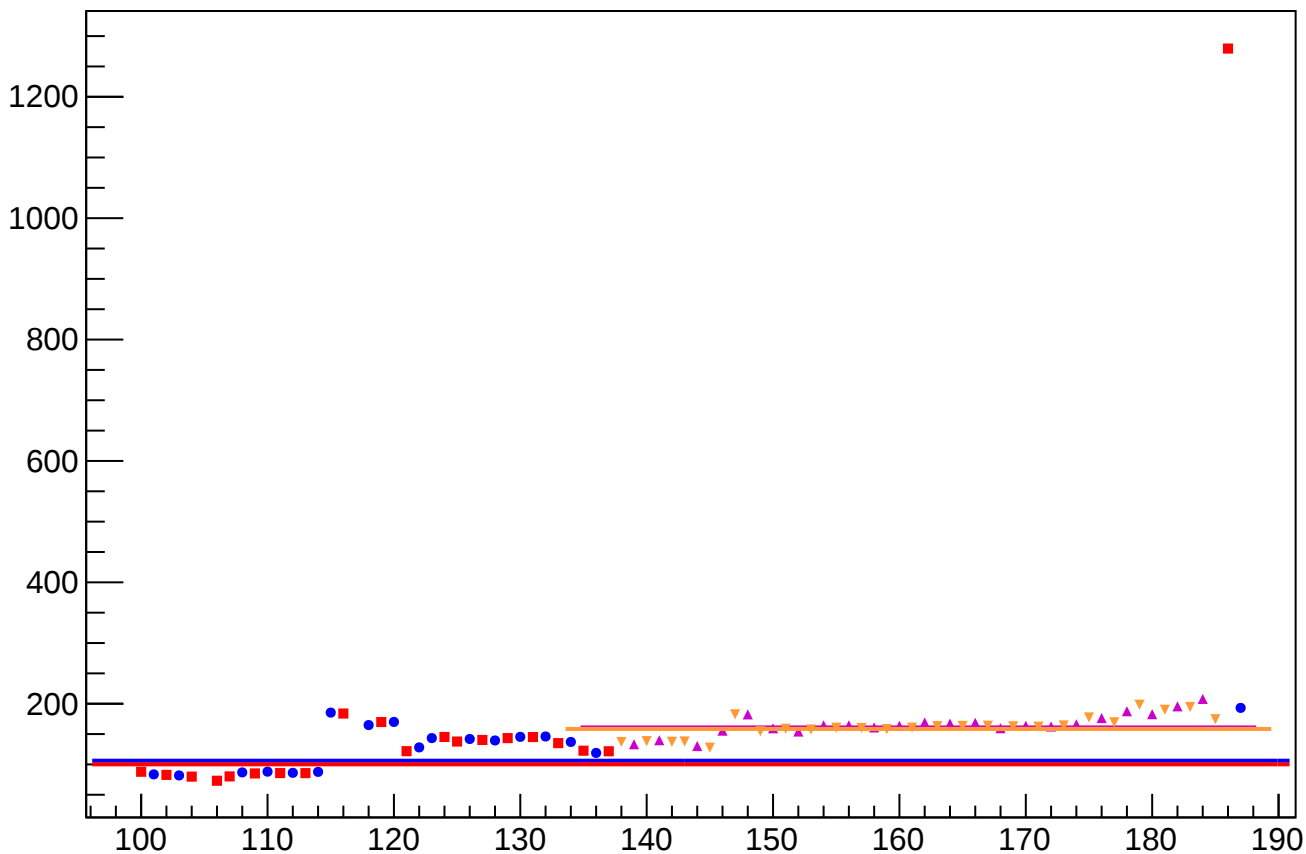
Right: 51.993+/-28.657 χ^2/NDF : 35.3/37

In: 97.784+/-28.533 χ^2/NDF : 42.8/40

Out: 150.256+/-26.888 χ^2/NDF : 52.4/44

All: 125.576+/-19.568 χ^2/NDF : 97.0/85

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: 100.106 $\pm$ 0.028 χ^2 /NDF: 1637917.5/19

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

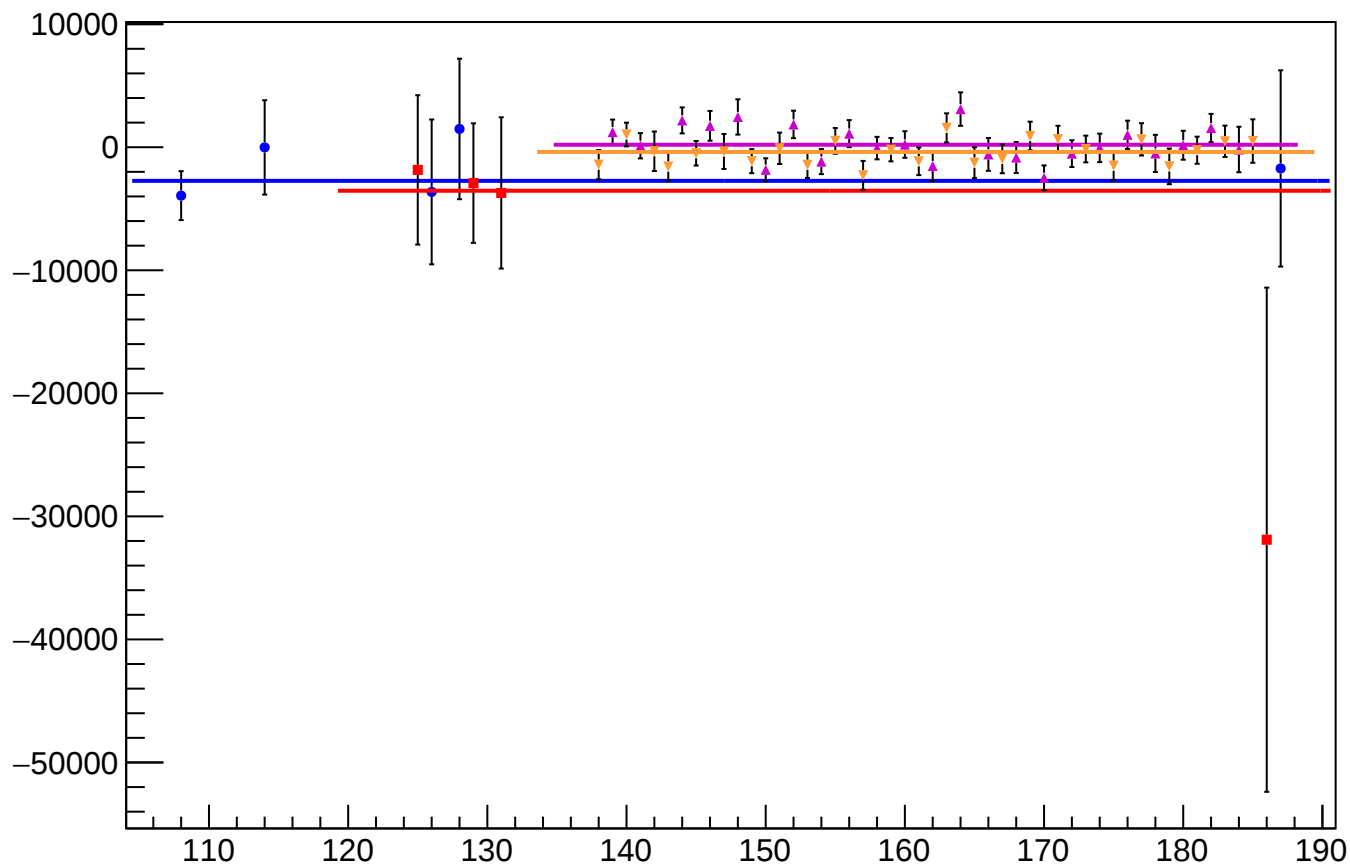
Right: 102.869 $\pm$ 0.020 χ^2 /NDF: 2591591.1/37

In: 135.887 $\pm$ 0.020 χ^2 /NDF: 3145366.2/40

Out: 130.756 $\pm$ 0.019 χ^2 /NDF: 4419622.9/44

All: 133.170 $\pm$ 0.014 χ^2 /NDF: 7599245.5/85

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: -3535.466+/-3187.767 χ^2/NDF : 2.0/3

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

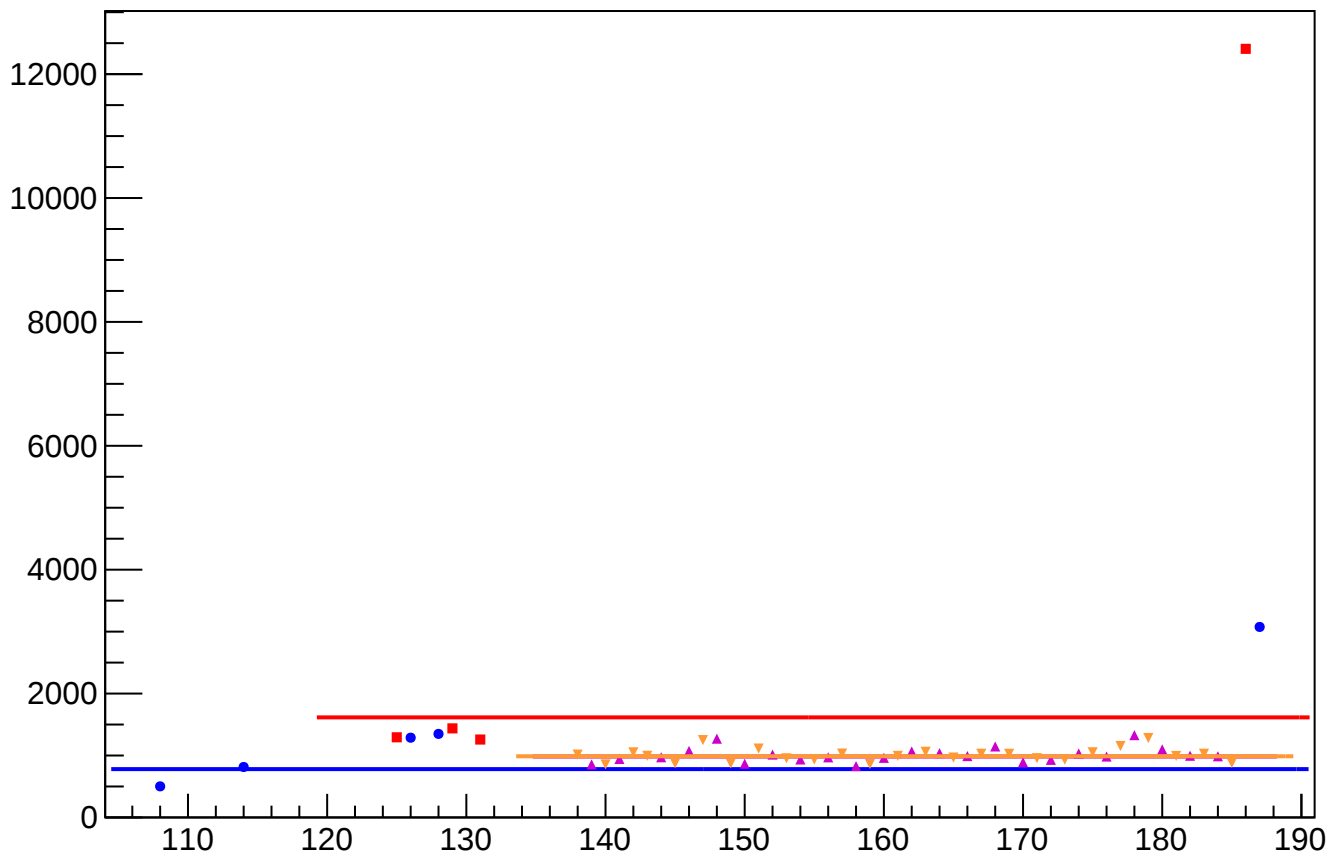
Right: -2892.433+/-1421.343 χ^2/NDF : 3.5/8

In: 138.033+/-234.848 χ^2/NDF : 40.3/27

Out: -401.594+/-231.223 χ^2/NDF : 21.0/28

All: -135.978+/-164.766 χ^2/NDF : 64.0/56

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: 1615.512 $\pm$ 2.254 χ^2 /NDF: 570115.1/3

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

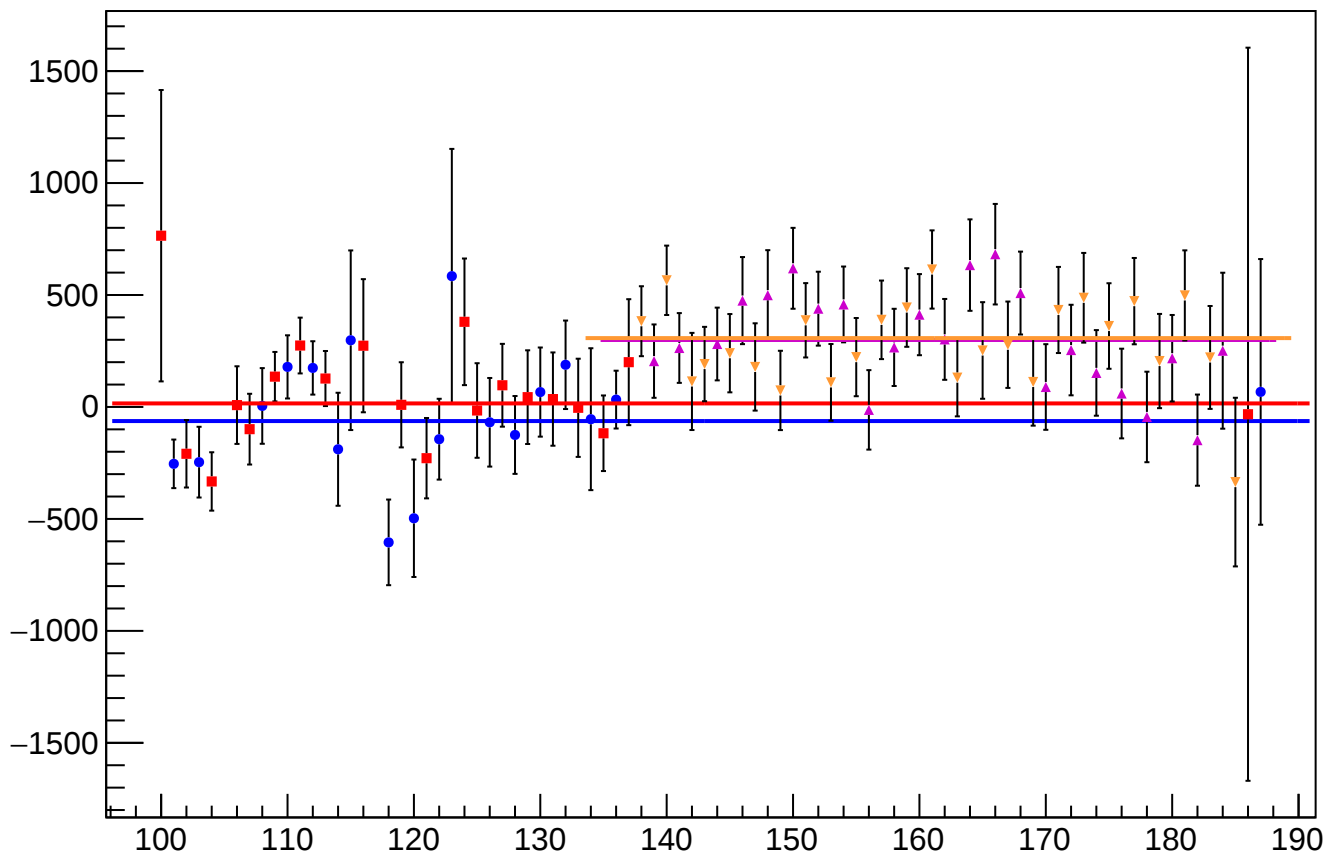
Right: 946.457 $\pm$ 1.005 χ^2 /NDF: 919881.5/8

In: 979.443 $\pm$ 0.166 χ^2 /NDF: 688183.8/27

Out: 991.171 $\pm$ 0.163 χ^2 /NDF: 1024197.9/28

All: 985.398 $\pm$ 0.117 χ^2 /NDF: 1714914.4/56

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: 15.831 ± 39.520 $\chi^2/\text{NDF}: 23.1/19$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

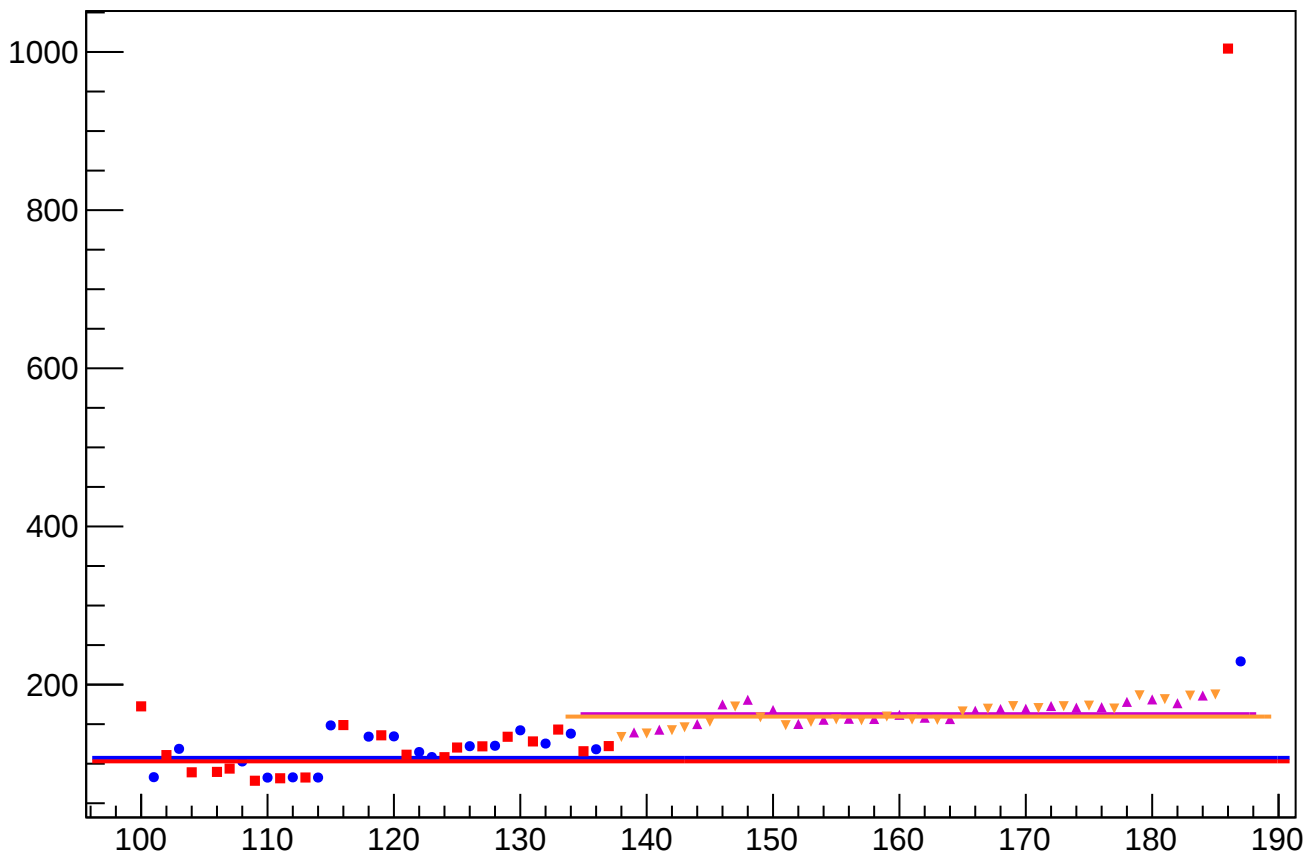
Right: -20.959 ± 28.855 $\chi^2/\text{NDF}: 52.6/37$

In: 132.445 ± 28.654 $\chi^2/\text{NDF}: 95.8/40$

Out: 170.169 ± 27.117 $\chi^2/\text{NDF}: 72.6/44$

All: 152.346 ± 19.696 $\chi^2/\text{NDF}: 169.4/85$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.355 $\pm$ 0.030 χ^2 /NDF: 588198.8/17

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF: 287744.2/24

Right Out: 102.977 $\pm$ 0.028 χ^2 /NDF: 1197678.8/19

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF: 199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

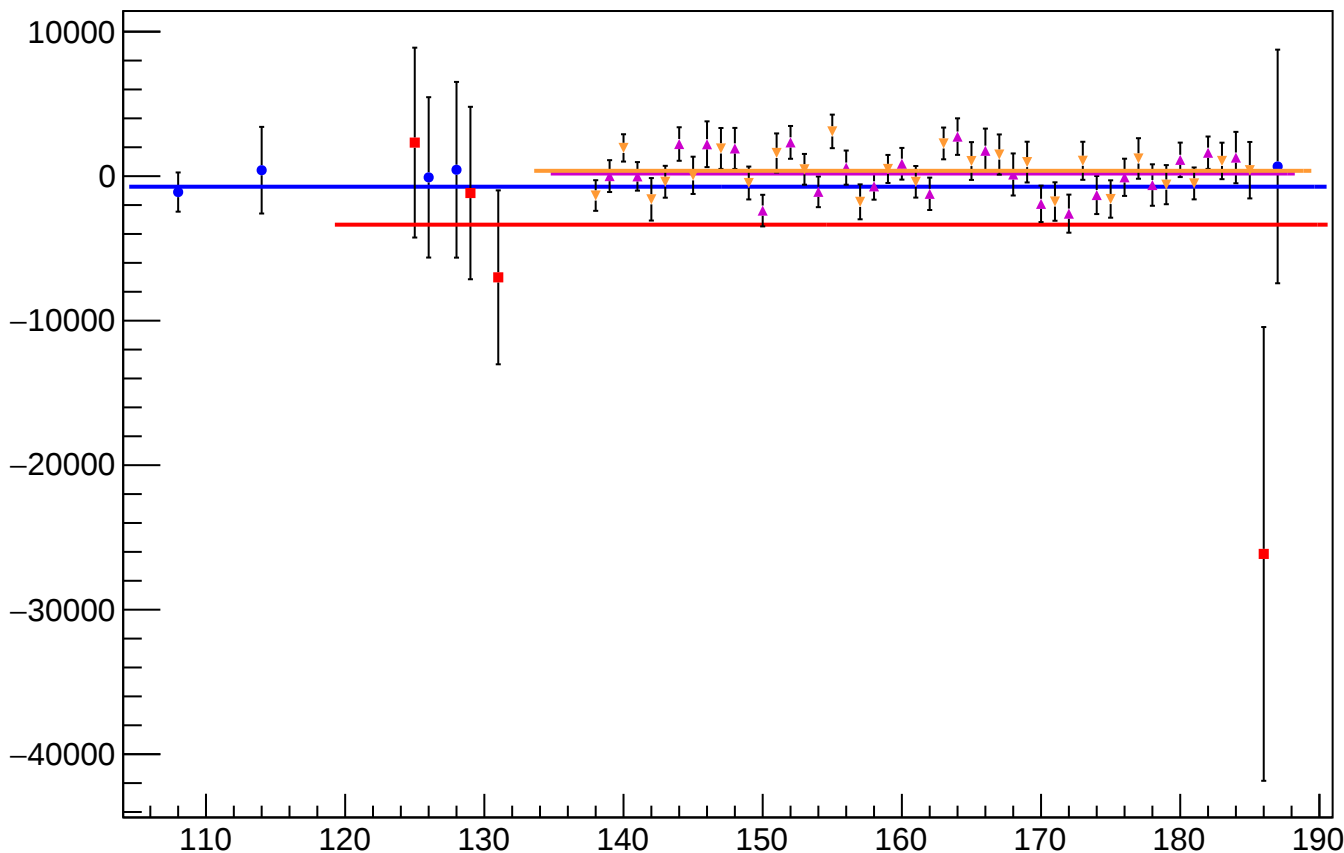
Right: 105.021 $\pm$ 0.020 χ^2 /NDF: 1797335.6/37

In: 137.167 $\pm$ 0.020 χ^2 /NDF: 2635103.5/40

Out: 132.924 $\pm$ 0.019 χ^2 /NDF: 3655567.9/44

All: 134.929 $\pm$ 0.014 χ^2 /NDF: 6313804.9/85

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: -3356.740+/-3472.430 χ^2/NDF : 3.4/3

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

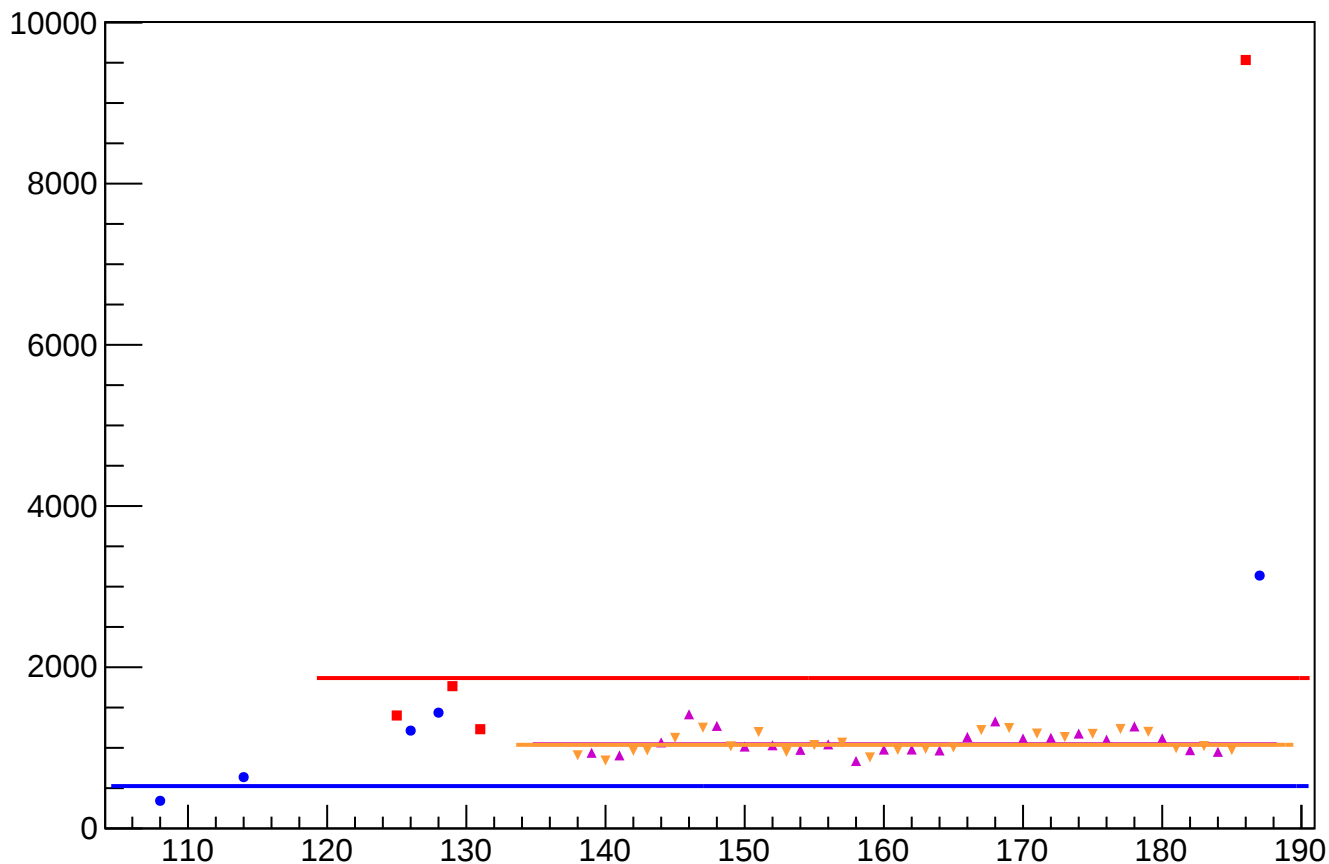
Right: -998.210+/-1109.486 χ^2/NDF : 4.2/8

In: 142.601+/-246.600 χ^2/NDF :37.4/27

Out: 351.762+/-242.924 χ^2/NDF :35.0/28

All: 248.752+/-173.058 χ^2/NDF : 72.7/56

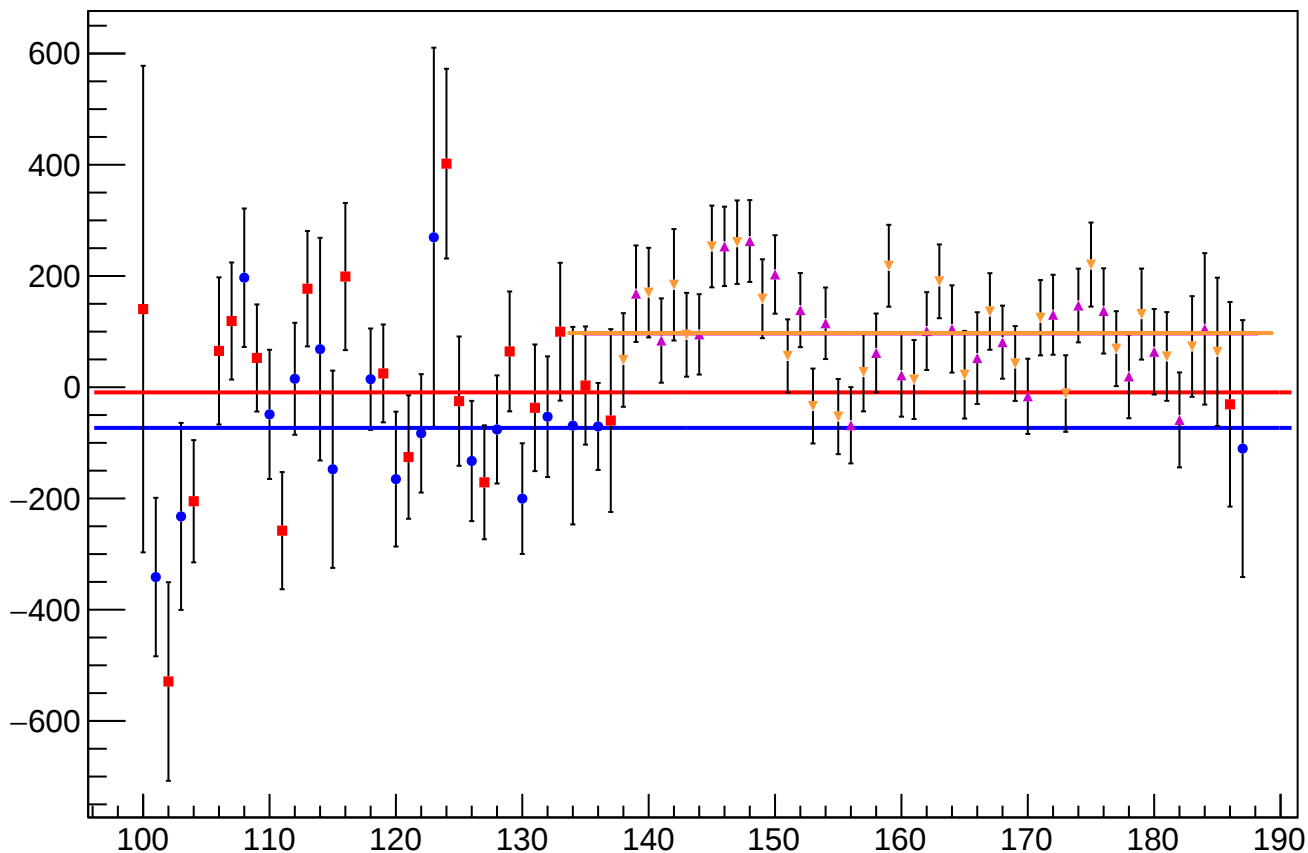
asym_sam6_correction_rms vs Slug, Sign Corrected



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: 1865.892+/-2.455 χ^2/NDF : 509863.6/3
 Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47
 Right: 662.558+/-0.785 χ^2/NDF : 1100784.2/8
 In: 1021.724+/-0.174 χ^2/NDF : 1242286.0/27
 Out: 1041.743+/-0.172 χ^2/NDF : 1118060.5/28
 All: 1031.883+/-0.122 χ^2/NDF : 2367035.5/56

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -73.111 $\pm$ 28.221 χ^2 /NDF: 15.2/17

Left Out: 97.445 $\pm$ 14.880 χ^2 /NDF:36.0/24

Right Out: -9.248 $\pm$ 26.607 χ^2 /NDF: 36.3/19

Left In: 96.704 $\pm$ 15.369 χ^2 /NDF:29.2/22

Left: 97.087 $\pm$ 10.690 χ^2 /NDF: 65.2/47

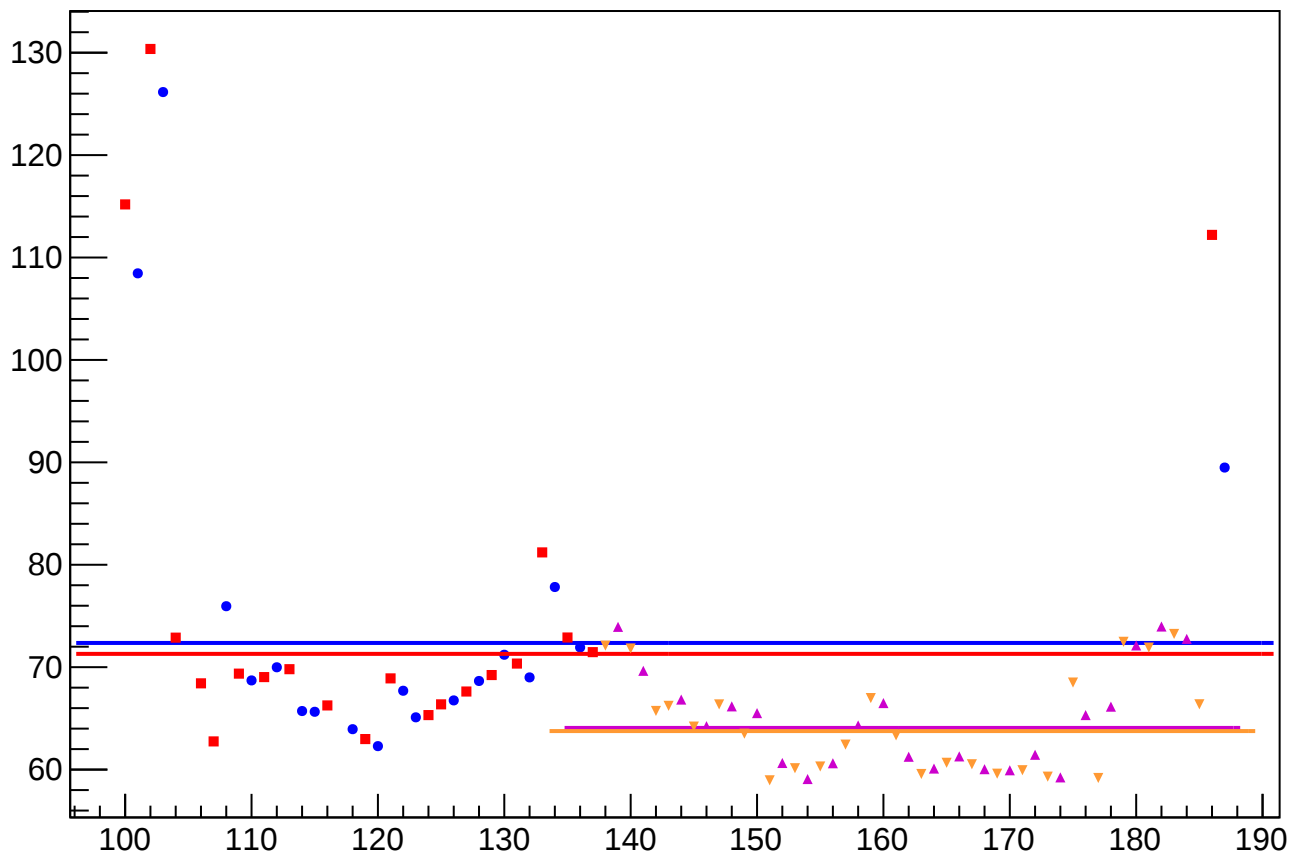
Right: -39.300 $\pm$ 19.359 χ^2 /NDF: 54.1/37

In: 57.860 $\pm$ 13.498 χ^2 /NDF:72.3/40

Out: 72.026 $\pm$ 12.987 χ^2 /NDF:84.5/44

All: 65.216 $\pm$ 9.358 χ^2 /NDF: 157.4/85

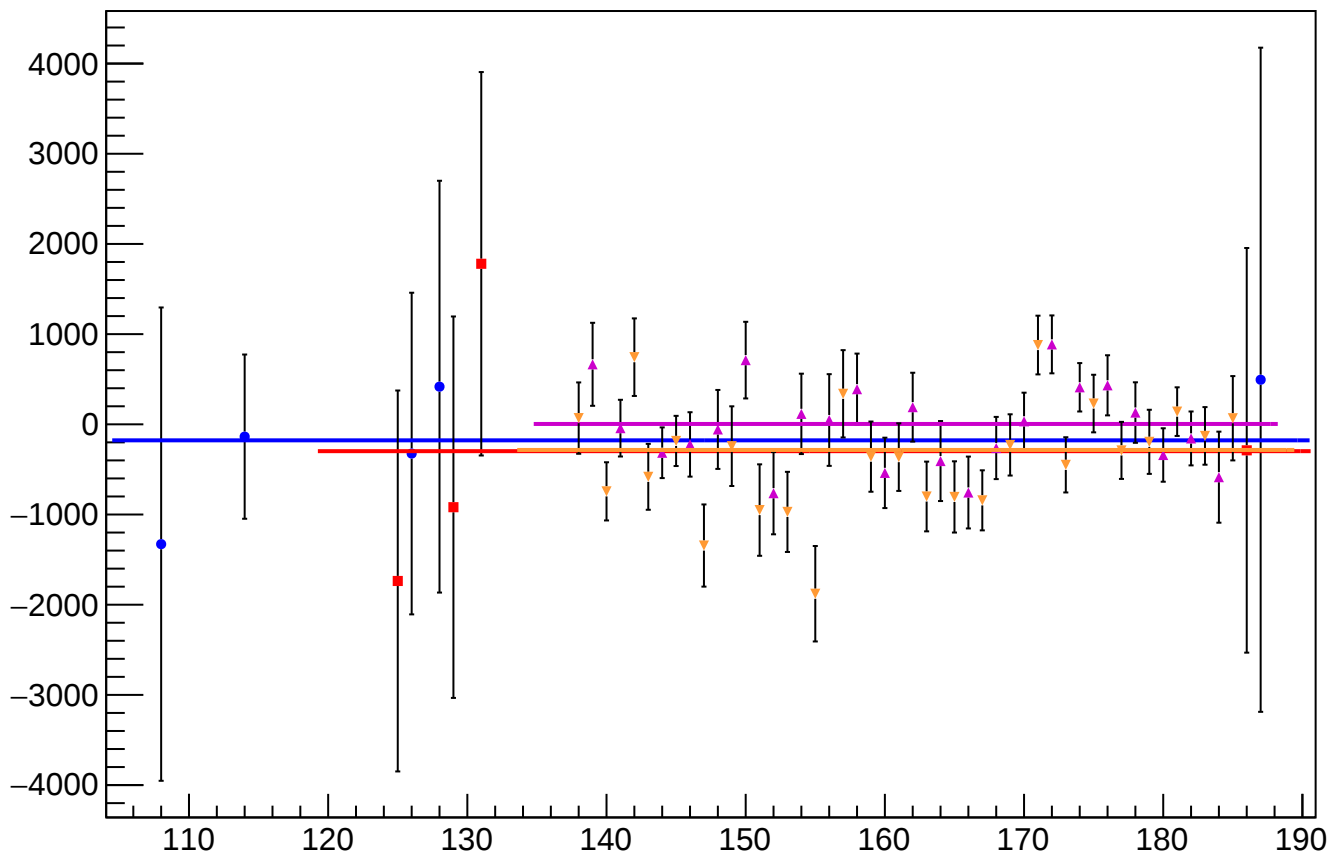
reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 72.366 $\pm$ 0.020 χ^2 /NDF: 401950.8/17
 Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF:192803.8/24
 Right Out: 71.299 $\pm$ 0.019 χ^2 /NDF: 399103.2/19
 Left In: 64.069 $\pm$ 0.011 χ^2 /NDF:164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47
 Right: 71.801 $\pm$ 0.014 χ^2 /NDF: 802567.1/37
 In: 65.966 $\pm$ 0.010 χ^2 /NDF:699944.3/40
 Out: 65.557 $\pm$ 0.009 χ^2 /NDF:714188.2/44
 All: 65.754 $\pm$ 0.007 χ^2 /NDF: 1415088.4/85

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -177.585+/-719.523 χ^2/NDF : 0.3/4

Left Out: -284.304+/-72.732 χ^2/NDF :55.1/24

Right Out: -297.576+/-1073.424 χ^2/NDF : 1.5/3

Left In: 4.037+/-75.084 χ^2/NDF :32.4/22

Left: -144.720+/-52.241 χ^2/NDF : 95.0/47

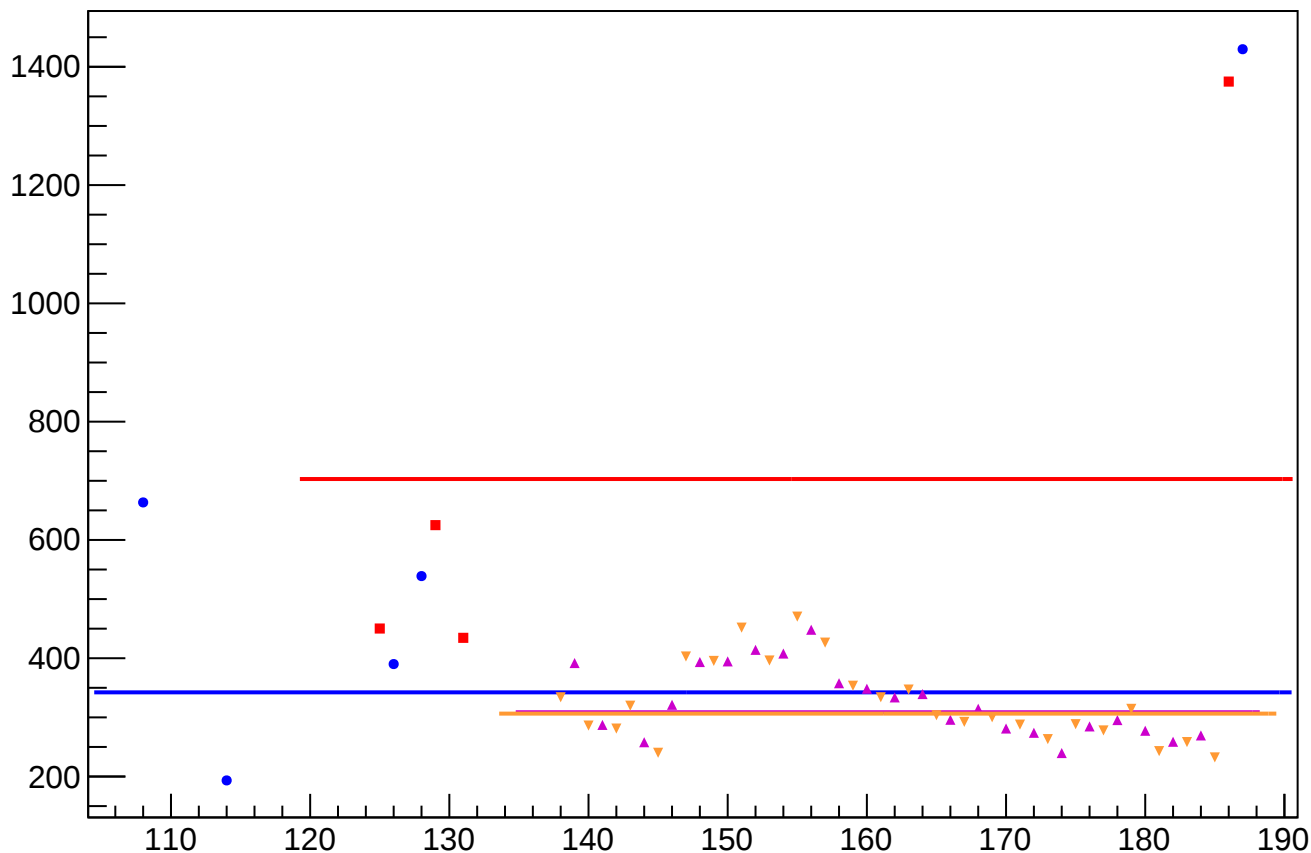
Right: -214.784+/-597.673 χ^2/NDF : 1.8/8

In: 2.080+/-74.679 χ^2/NDF :32.7/27

Out: -284.364+/-72.566 χ^2/NDF :56.6/28

All: -145.251+/-52.043 χ^2/NDF : 96.9/56

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 342.318 $\pm$ 0.509 χ^2/NDF : 274156.6/4

Left Out: 306.363 $\pm$ 0.051 χ^2/NDF :1215669.9/24

Right Out: 703.014 $\pm$ 0.759 χ^2/NDF : 242754.8/3

Left In: 308.727 $\pm$ 0.053 χ^2/NDF :1002947.4/22

Left: 307.507 $\pm$ 0.037 χ^2/NDF : 2219640.0/47

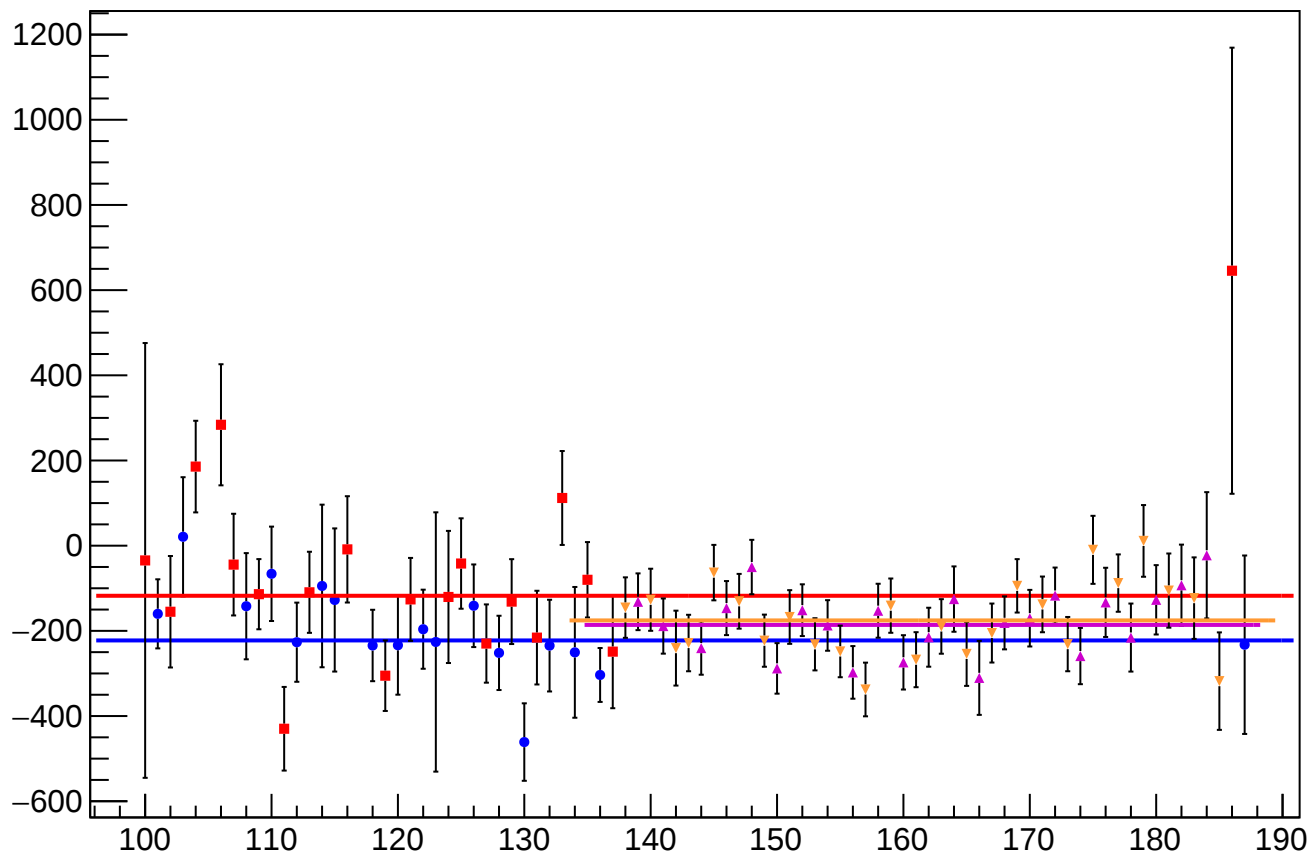
Right: 454.140 $\pm$ 0.423 χ^2/NDF : 672726.0/8

In: 309.088 $\pm$ 0.053 χ^2/NDF :1281416.3/27

Out: 308.176 $\pm$ 0.051 χ^2/NDF :1730266.2/28

All: 308.619 $\pm$ 0.037 χ^2/NDF : 3011836.2/56

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: -117.620 ± 24.639 $\chi^2/\text{NDF}: 42.9/19$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

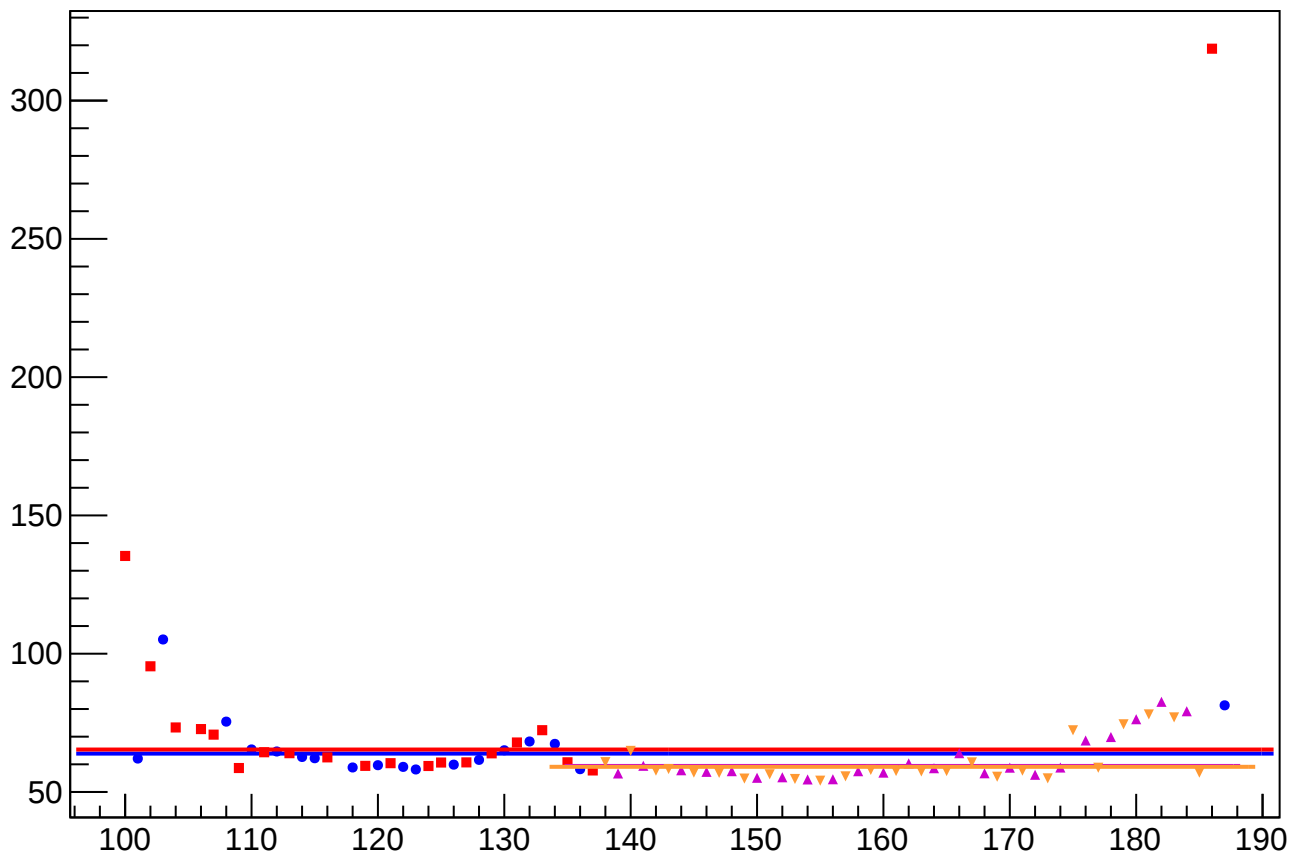
Right: -169.785 ± 17.467 $\chi^2/\text{NDF}: 68.2/37$

In: -195.174 ± 12.394 $\chi^2/\text{NDF}: 41.5/40$

Out: -161.587 ± 12.070 $\chi^2/\text{NDF}: 81.7/44$

All: -177.936 ± 8.647 $\chi^2/\text{NDF}: 126.9/85$

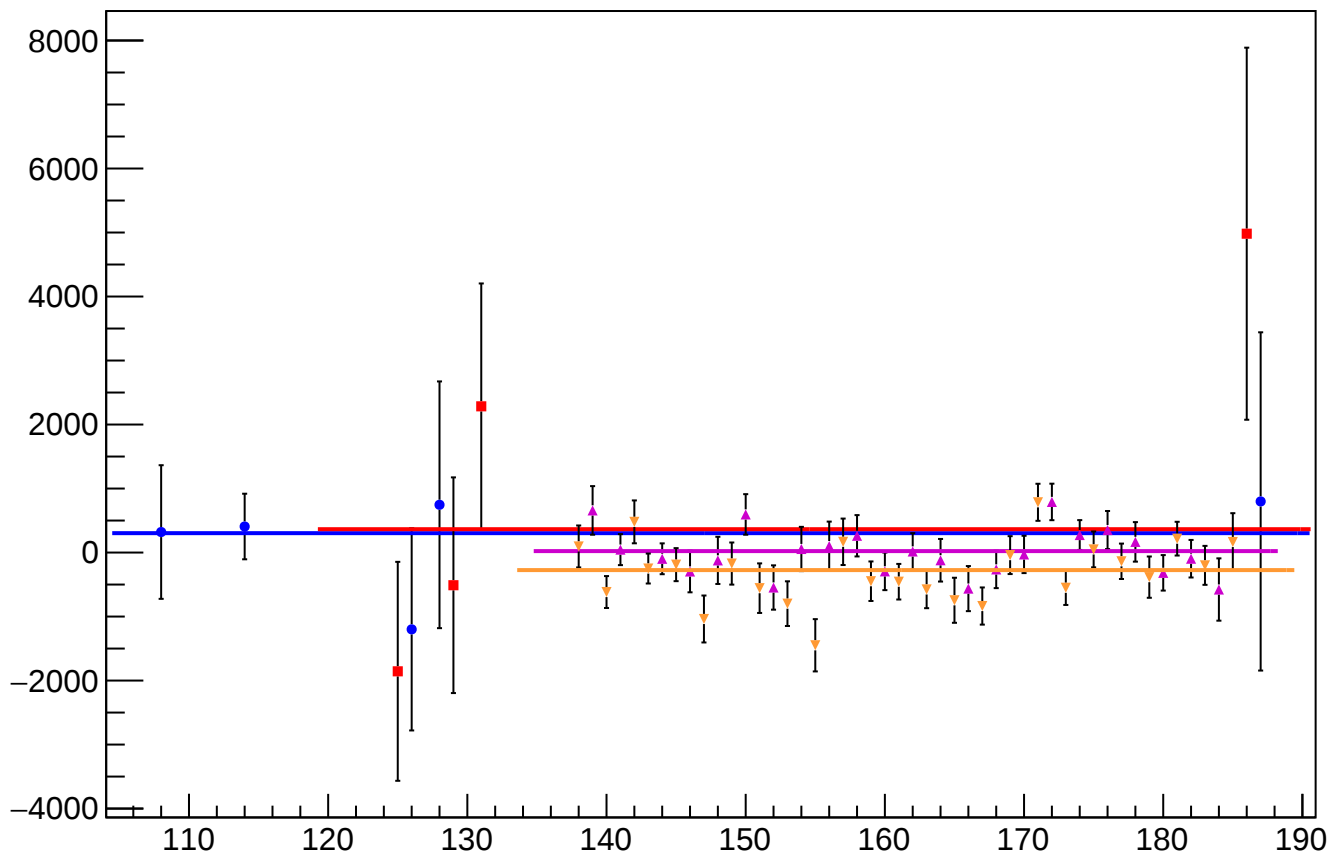
reg_asym_sam8_rms vs Slug, Sign Corrected



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: 65.349 $\pm$ 0.017 χ^2 /NDF: 695692.4/19
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: 64.617 $\pm$ 0.012 χ^2 /NDF: 947229.1/37
In: 60.529 $\pm$ 0.009 χ^2 /NDF: 669774.4/40
Out: 60.599 $\pm$ 0.009 χ^2 /NDF: 1163293.4/44
All: 60.565 $\pm$ 0.006 χ^2 /NDF: 1833101.2/85

asym_sam8_correction_mean vs Slug, Sign Corrected



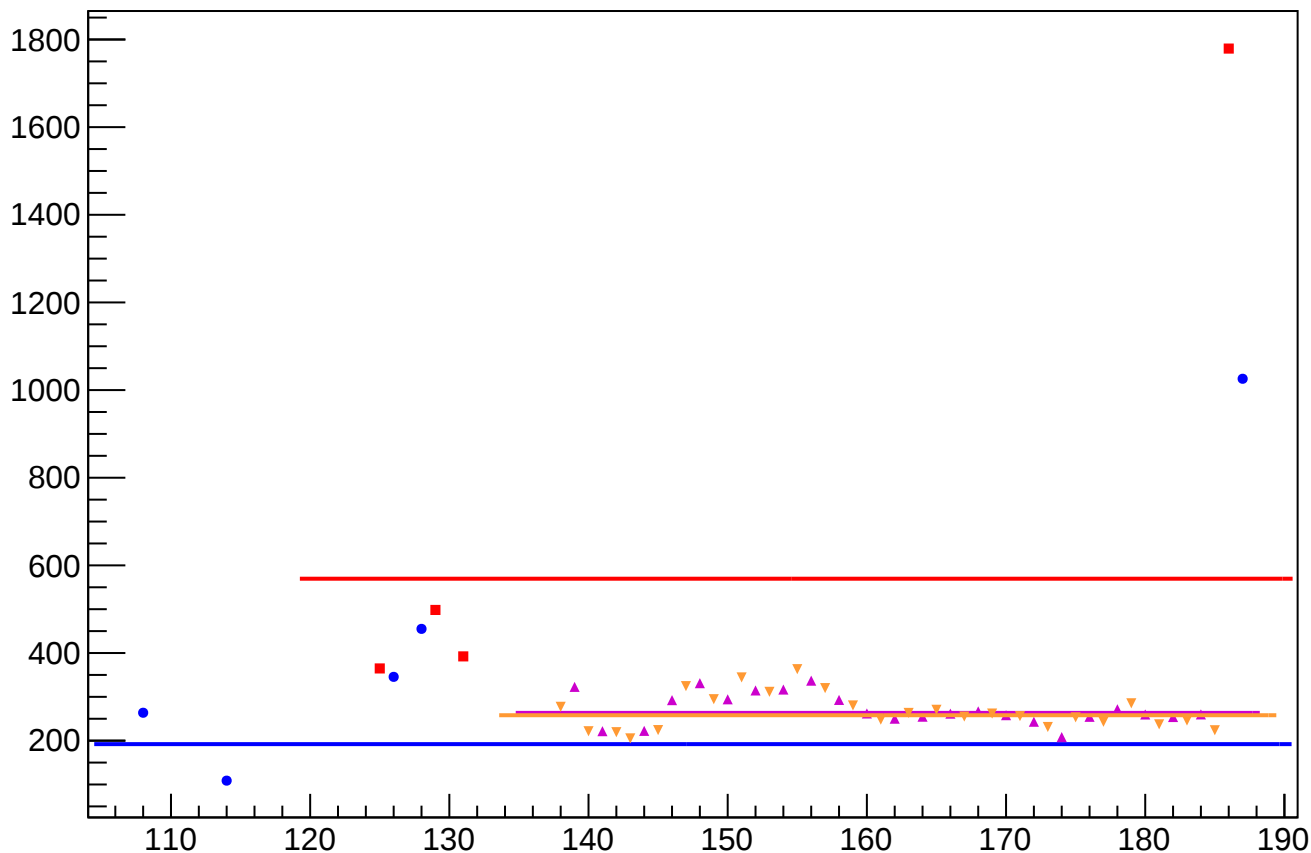
Right In: 302.986 ± 424.837 $\chi^2/\text{NDF}: 1.0/4$
 Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$
 Right Out: 364.950 ± 960.555 $\chi^2/\text{NDF}: 5.5/3$
 Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$
 Right: 313.124 ± 388.532 $\chi^2/\text{NDF}: 6.5/8$

In: 28.784 ± 62.941 $\chi^2/\text{NDF}: 30.4/27$
 Out: -271.541 ± 60.678 $\chi^2/\text{NDF}: 59.8/28$

All: -126.874 ± 43.684 $\chi^2/\text{NDF}: 102.0/56$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 192.101 $\pm$ 0.300 χ^2/NDF : 317541.2/4

Left Out: 258.040 $\pm$ 0.043 χ^2/NDF : 724823.3/24

Right Out: 569.570 $\pm$ 0.679 χ^2/NDF : 395752.4/3

Left In: 263.397 $\pm$ 0.045 χ^2/NDF : 585600.2/22

Left: 260.596 $\pm$ 0.031 χ^2/NDF : 1317830.8/47

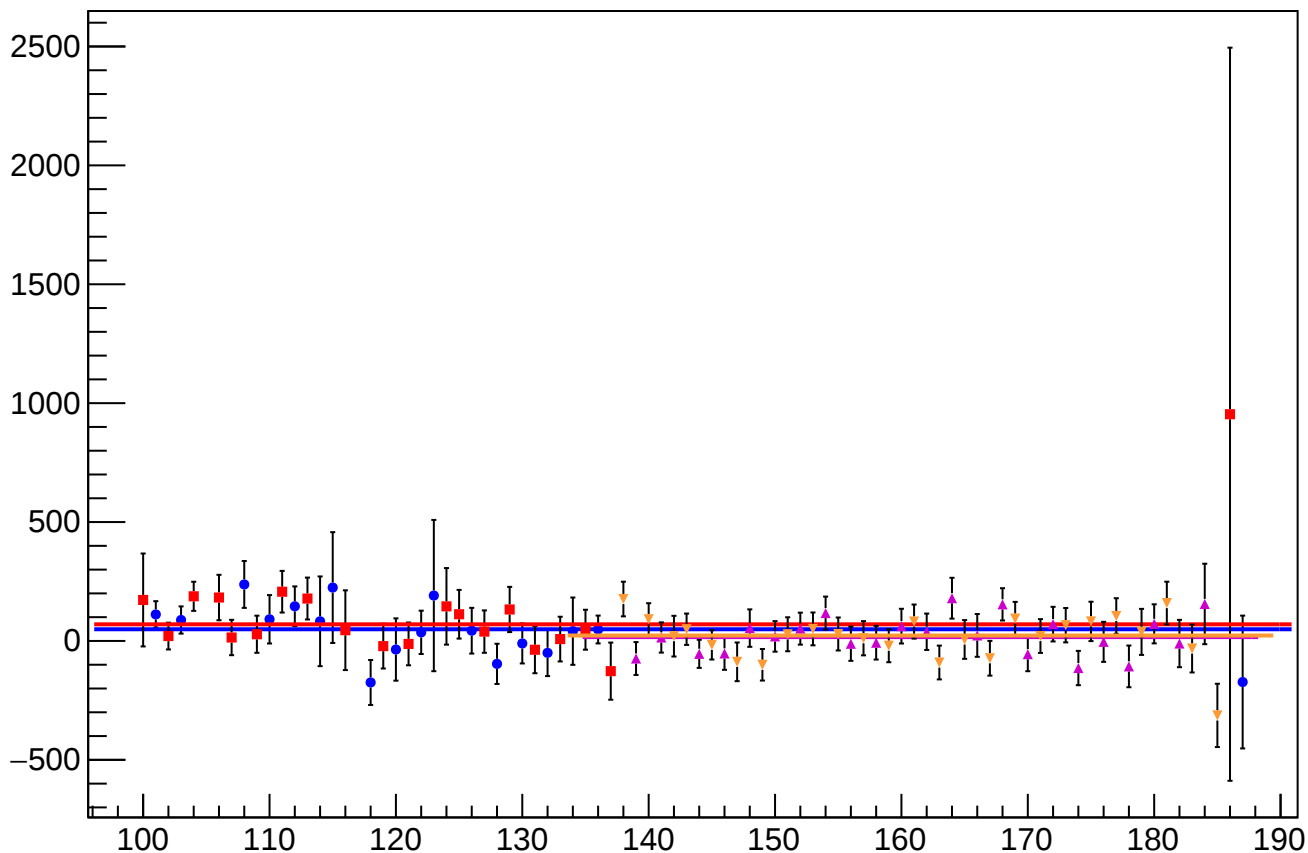
Right: 253.859 $\pm$ 0.275 χ^2/NDF : 971613.1/8

In: 261.832 $\pm$ 0.045 χ^2/NDF : 958231.4/27

Out: 259.283 $\pm$ 0.043 χ^2/NDF : 1330106.8/28

All: 260.511 $\pm$ 0.031 χ^2/NDF : 2290037.7/56

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: 69.894 $\pm$ 20.446 χ^2 /NDF: 18.4/19

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

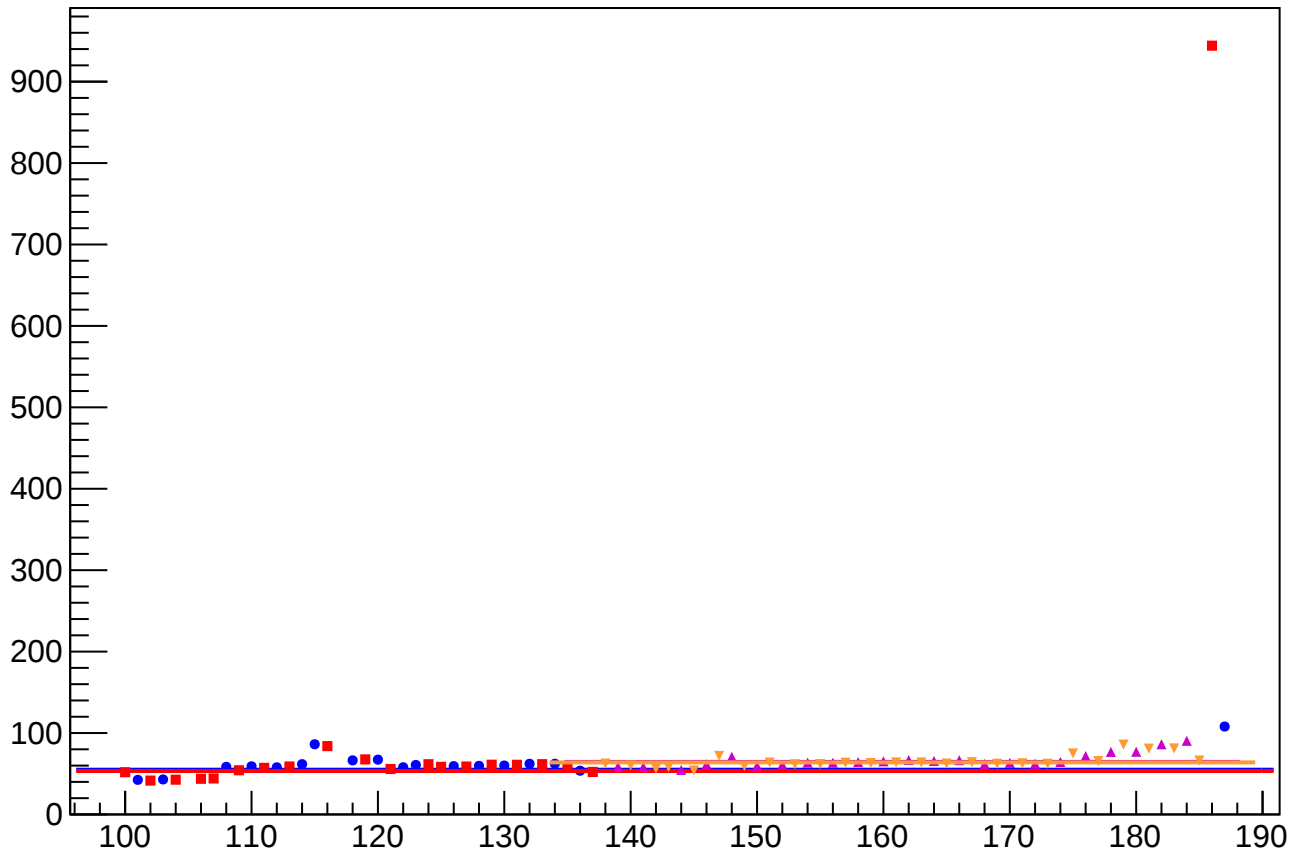
Right: 60.033 $\pm$ 14.811 χ^2 /NDF: 37.7/37

In: 27.507 $\pm$ 12.586 χ^2 /NDF:43.7/40

Out: 39.278 $\pm$ 12.077 χ^2 /NDF:50.8/44

All: 33.635 $\pm$ 8.714 χ^2 /NDF: 95.0/85

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 54.956+/-0.015 χ^2/NDF : 391539.0/17

Left Out: 63.920+/-0.011 χ^2/NDF : 395410.4/24

Right Out: 53.375+/-0.014 χ^2/NDF : 1055822.6/19

Left In: 64.511+/-0.011 χ^2/NDF : 370515.2/22

Left: 64.204+/-0.008 χ^2/NDF : 767426.6/47

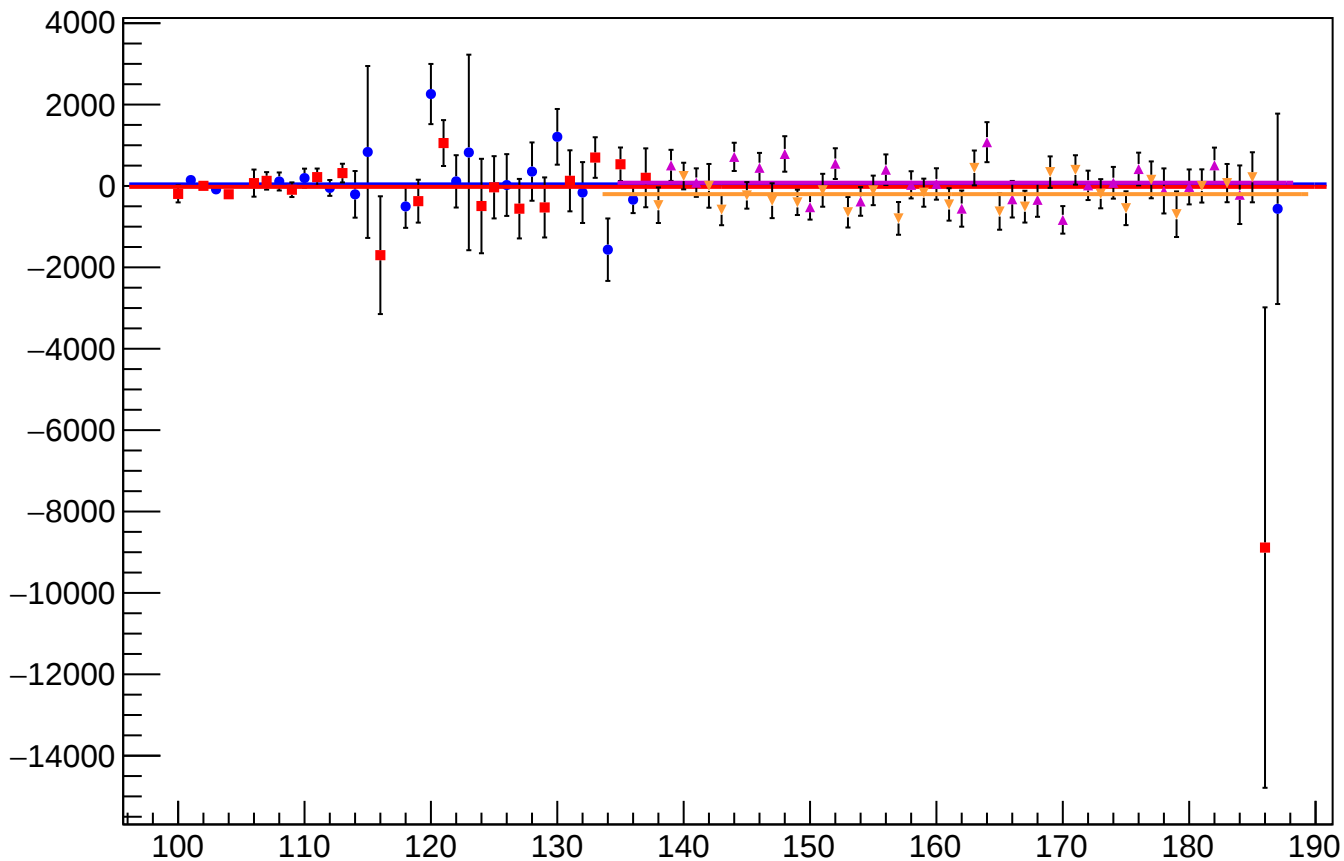
Right: 54.127+/-0.010 χ^2/NDF : 1453043.4/37

In: 61.231+/-0.009 χ^2/NDF : 1021879.9/40

Out: 60.241+/-0.009 χ^2/NDF : 1797571.6/44

All: 60.716+/-0.006 χ^2/NDF : 2825901.0/85

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected

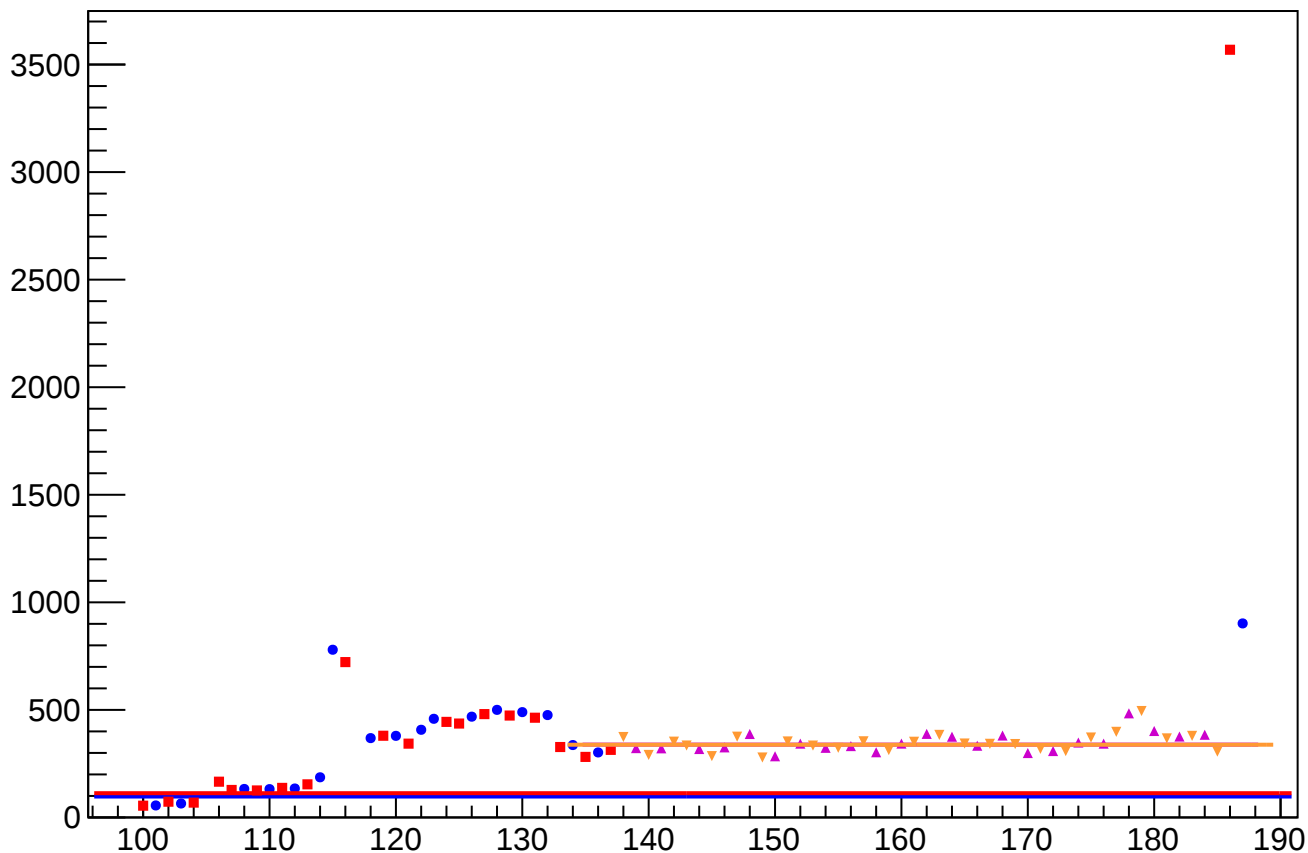


Right In: 38.725 ± 51.549 χ^2/NDF : 23.9/17
 Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24
 Right Out: -22.141 ± 53.286 χ^2/NDF : 21.0/19
 Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47
 Right: 9.301 ± 37.049 χ^2/NDF : 45.6/37
 In: 50.457 ± 43.609 χ^2/NDF : 57.5/40
 Out: -77.564 ± 44.271 χ^2/NDF : 44.2/44

All: -12.588 ± 31.068 χ^2/NDF : 105.9/85

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: 112.801+/-0.038 χ^2/NDF : 5701352.9/19

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

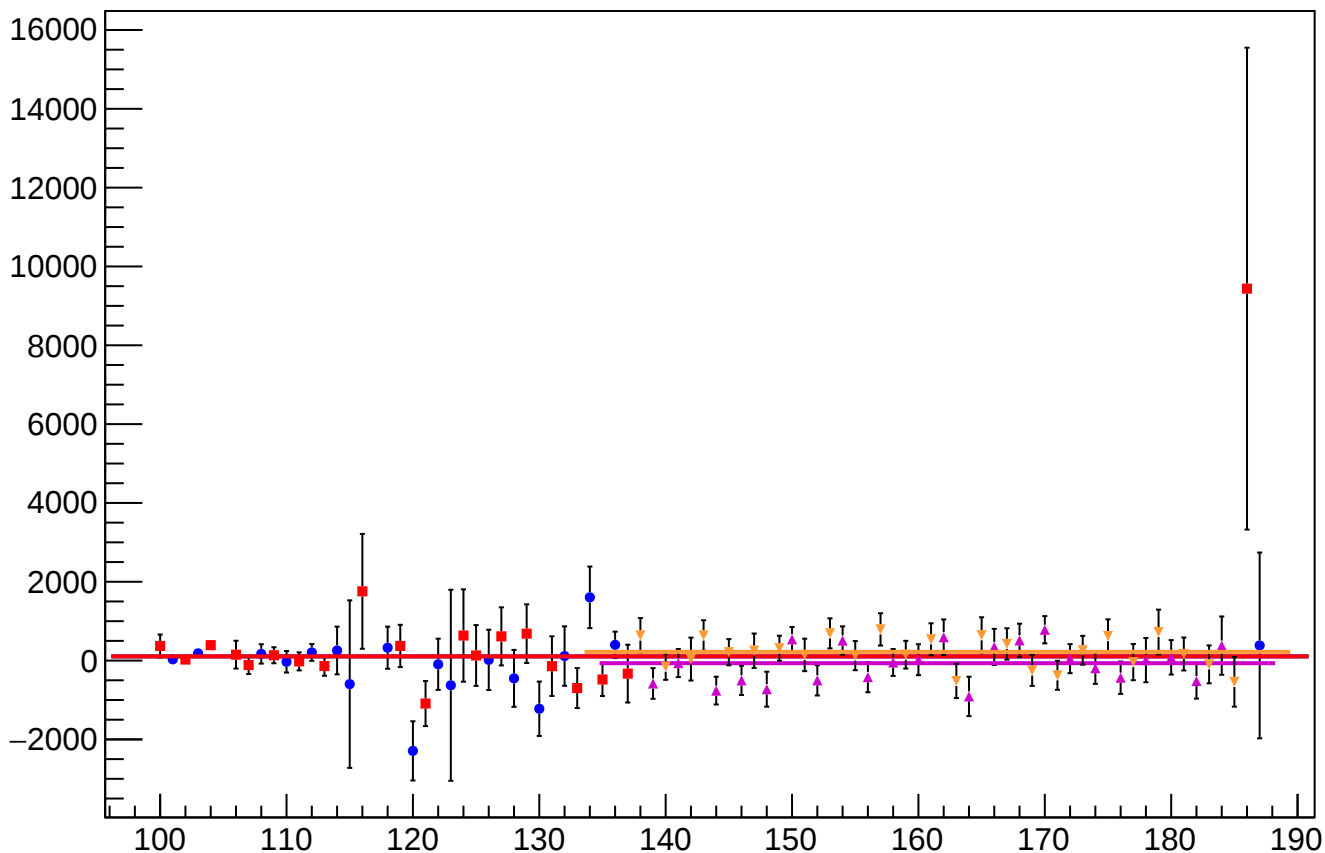
Right: 104.789+/-0.026 χ^2/NDF : 11826057.6/37

In: 165.894+/-0.031 χ^2/NDF : 18932471.9/40

Out: 182.592+/-0.031 χ^2/NDF : 17276795.3/44

All: 174.117+/-0.022 χ^2/NDF : 36353673.8/85

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: 106.660 $\pm$ 60.875 χ^2 /NDF: 23.6/19

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

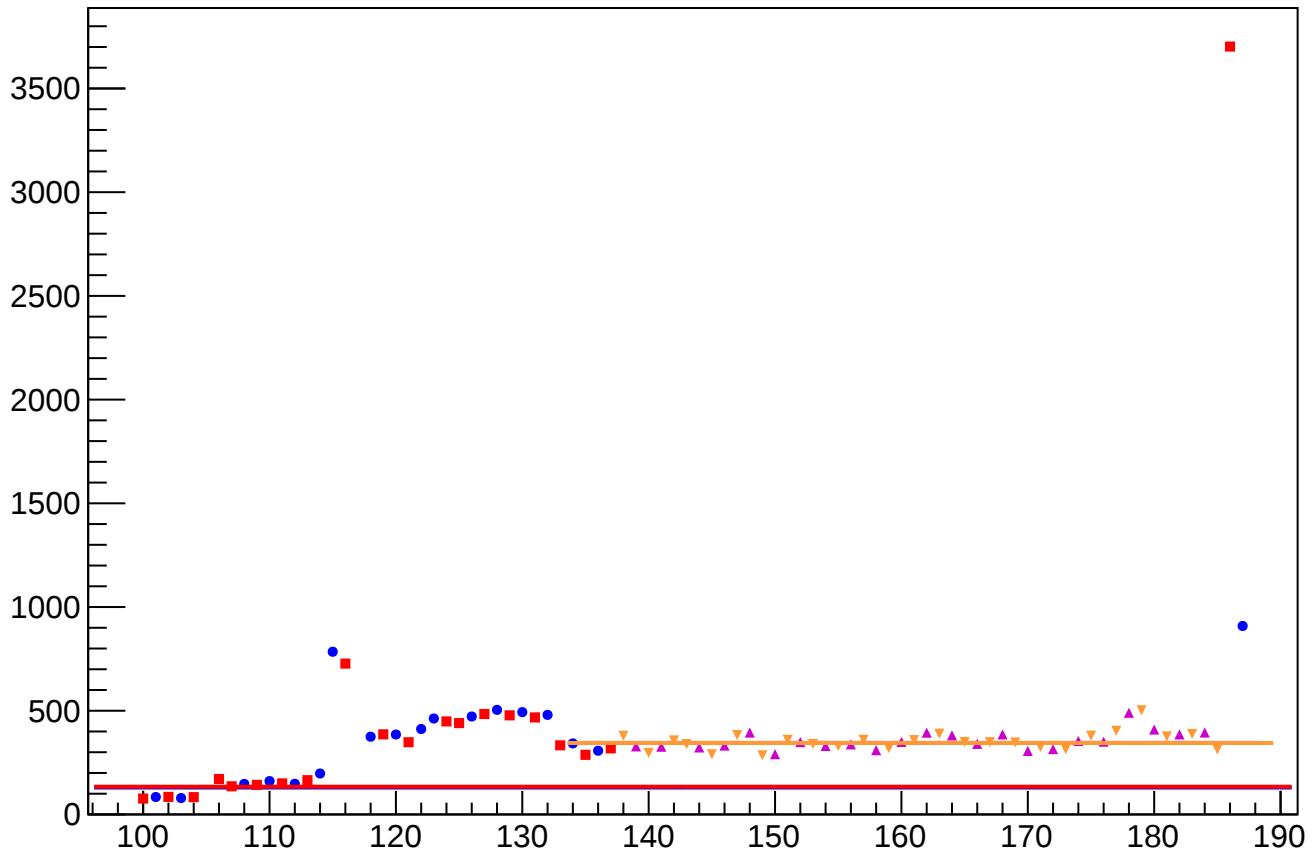
Right: 106.276 $\pm$ 43.832 χ^2 /NDF: 44.6/37

In: 43.317 $\pm$ 50.335 χ^2 /NDF:57.7/40

Out: 147.949 $\pm$ 48.668 χ^2 /NDF:44.5/44

All: 97.394 $\pm$ 34.988 χ^2 /NDF: 104.4/85

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: 133.787+/-0.043 χ^2/NDF : 5030664.7/19

Left In: 345.039+/-0.059 χ^2/NDF : 427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

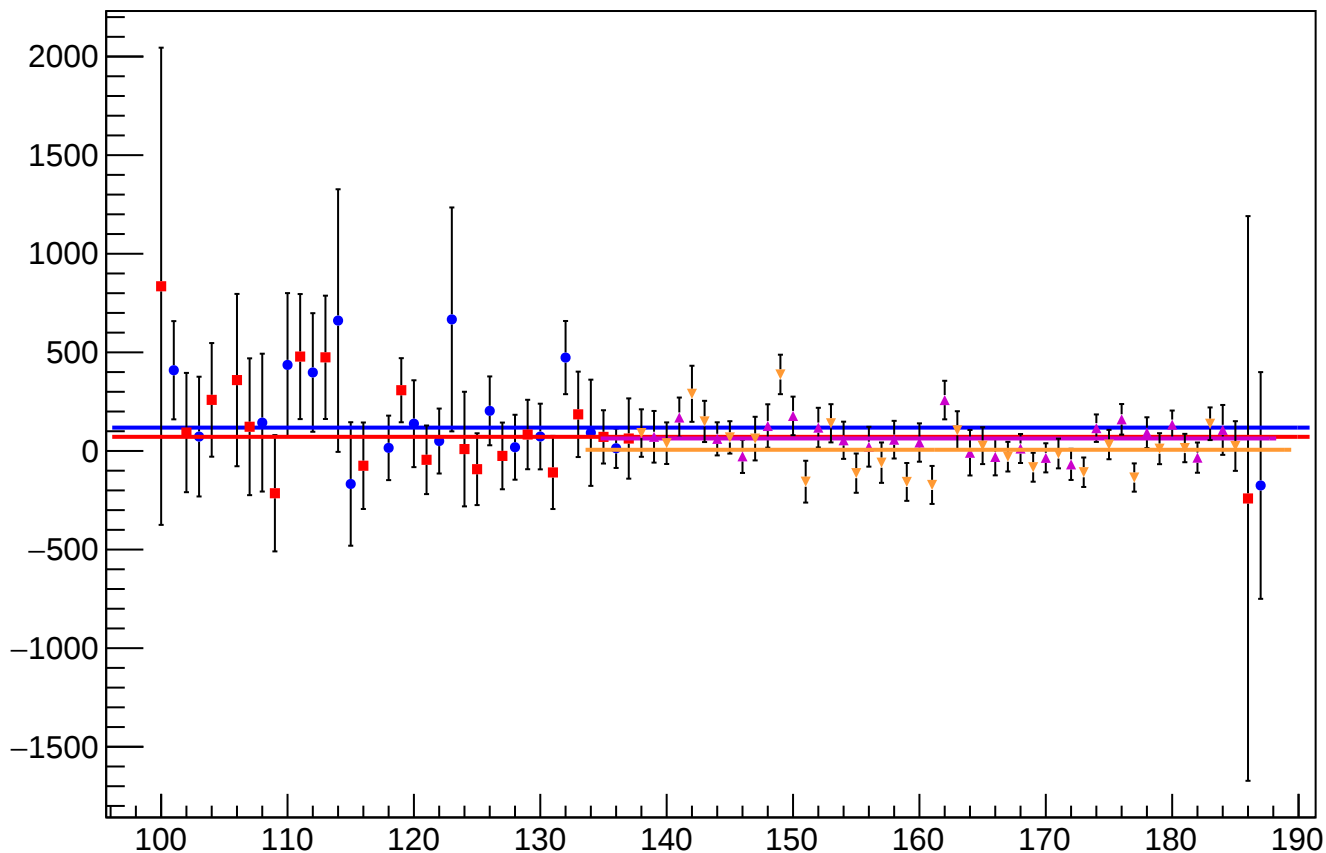
Right: 131.933+/-0.031 χ^2/NDF : 10011663.0/37

In: 208.441+/-0.036 χ^2/NDF : 13869654.2/40

Out: 209.823+/-0.034 χ^2/NDF : 14166242.8/44

All: 209.155+/-0.025 χ^2/NDF : 28036675.5/85

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 118.445 $\pm$ 49.021 χ^2 /NDF: 11.7/17

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 71.642 $\pm$ 50.020 χ^2 /NDF: 11.0/19

Left In: 63.279 $\pm$ 18.447 χ^2 /NDF:19.8/22

Left: 33.804 $\pm$ 12.850 χ^2 /NDF: 70.8/47

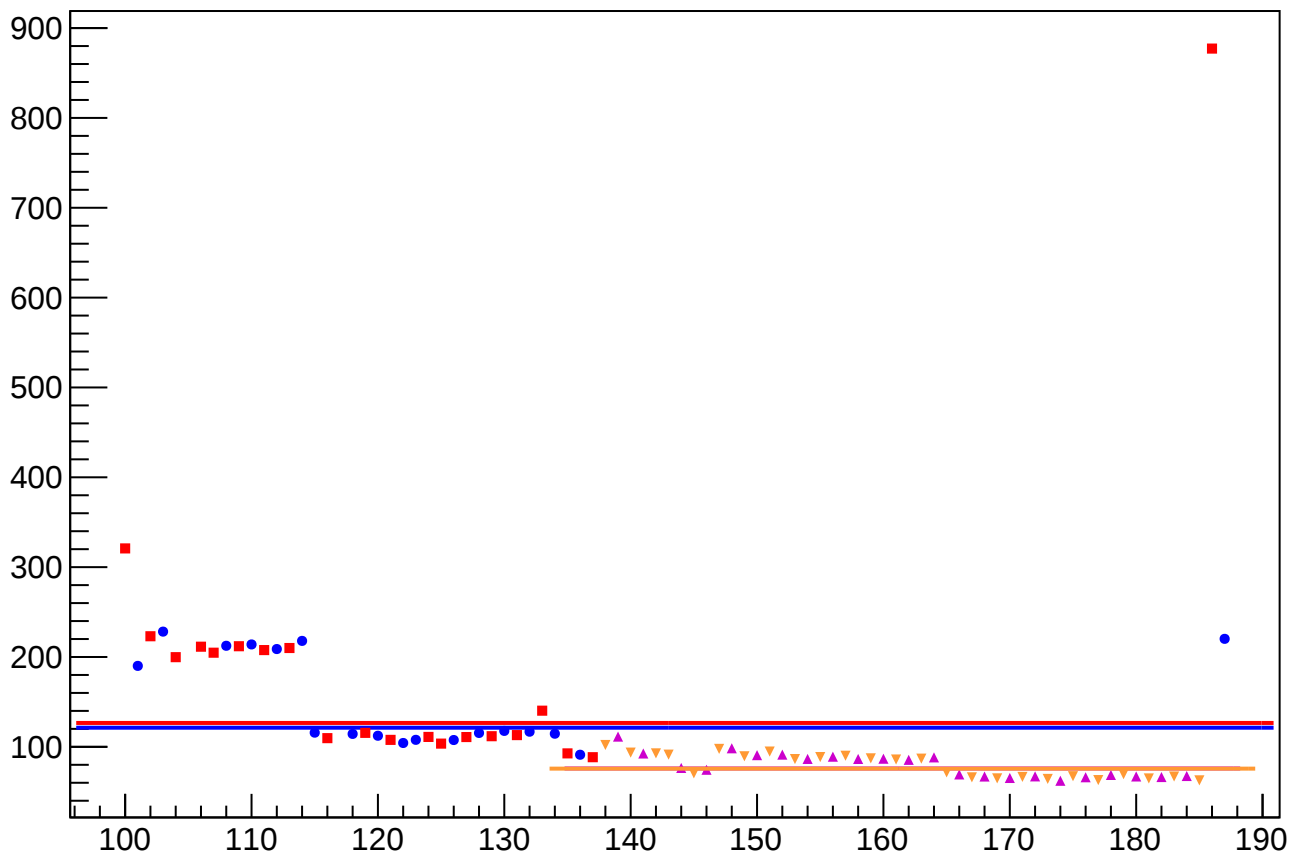
Right: 95.515 $\pm$ 35.011 χ^2 /NDF: 23.2/37

In: 70.121 $\pm$ 17.265 χ^2 /NDF:32.7/40

Out: 13.476 $\pm$ 16.862 χ^2 /NDF:58.5/44

All: 41.130 $\pm$ 12.063 χ^2 /NDF: 96.7/85

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 121.300+/-0.035 χ^2/NDF : 1166989.2/17

Left Out: 75.743+/-0.013 χ^2/NDF : 937821.8/24

Right Out: 126.583+/-0.035 χ^2/NDF : 1879993.5/19

Left In: 75.909+/-0.013 χ^2/NDF : 831366.4/22

Left: 75.824+/-0.009 χ^2/NDF : 1769272.3/47

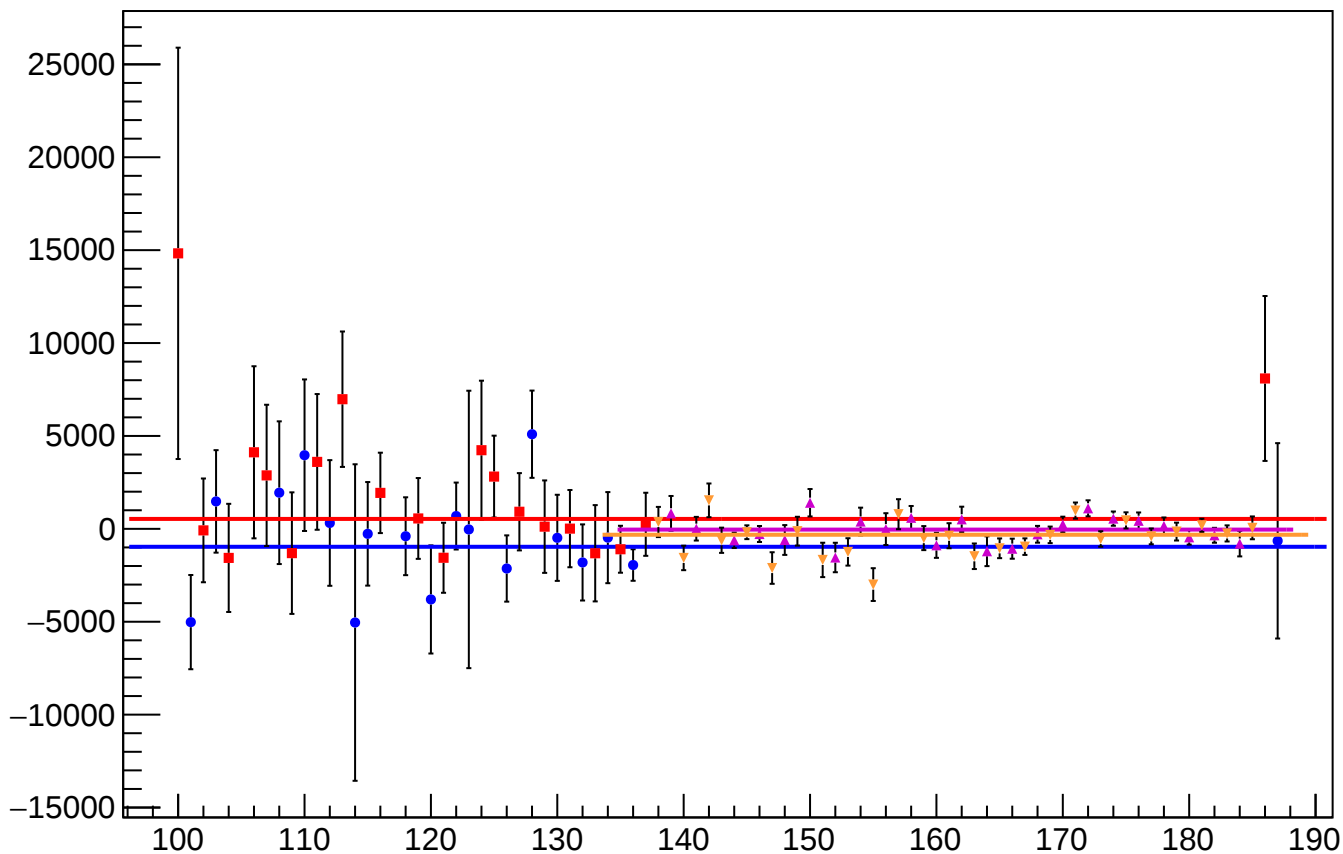
Right: 123.889+/-0.025 χ^2/NDF : 3058361.5/37

In: 81.540+/-0.012 χ^2/NDF : 3500406.3/40

Out: 81.520+/-0.012 χ^2/NDF : 4649157.3/44

All: 81.529+/-0.009 χ^2/NDF : 8149565.0/85

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: 533.796+/-542.687 χ^2/NDF : 16.3/19

Left In: -40.473+/-110.252 χ^2/NDF :34.7/22

Left: -182.115+/-77.156 χ^2/NDF : 88.0/47

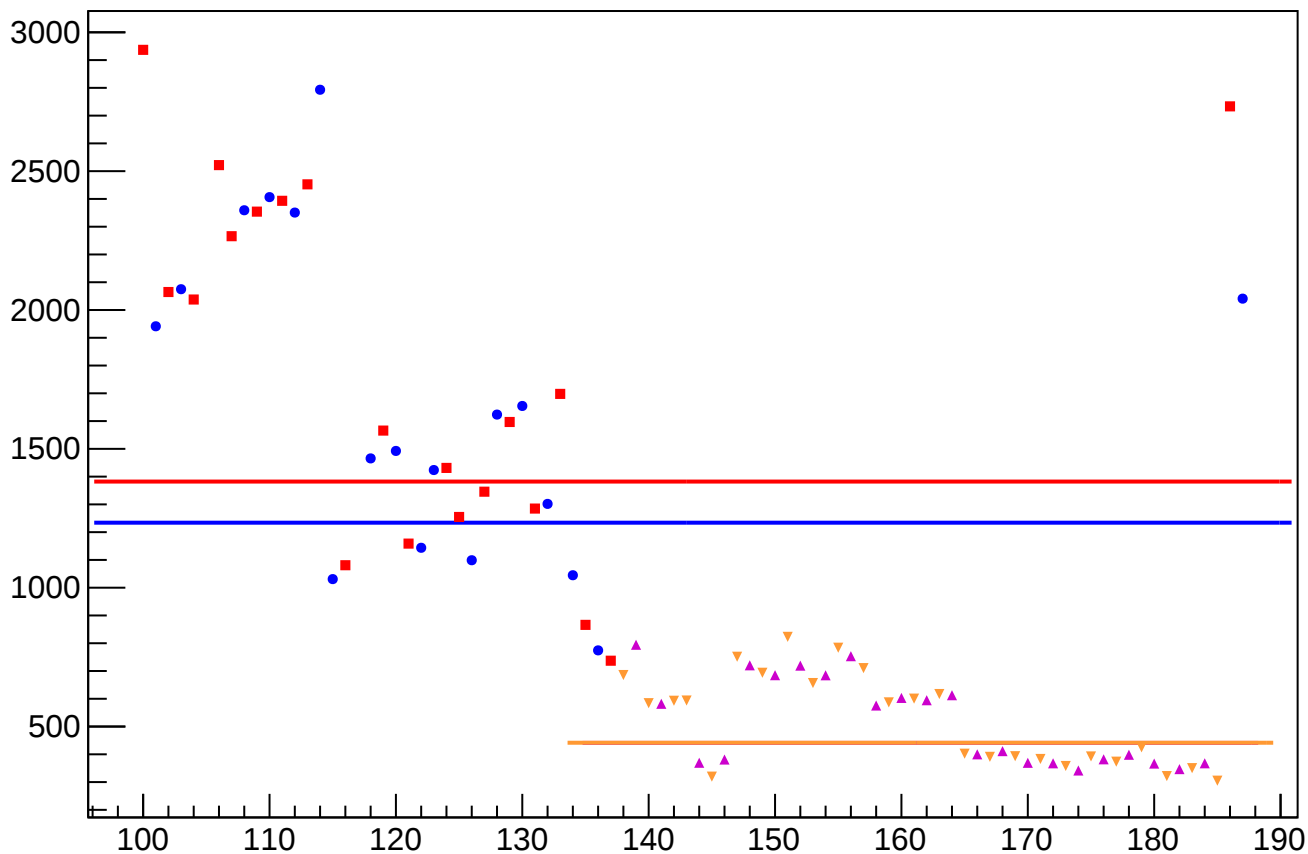
Right: -260.977+/-372.023 χ^2/NDF : 36.7/37

In: -81.626+/-107.772 χ^2/NDF :54.2/40

Out: -285.604+/-105.936 χ^2/NDF :68.7/44

All: -185.368+/-75.549 χ^2/NDF : 124.8/85

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1234.101+/-0.361 χ^2/NDF : 1801916.5/17

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1382.197+/-0.384 χ^2/NDF : 1937702.9/19

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

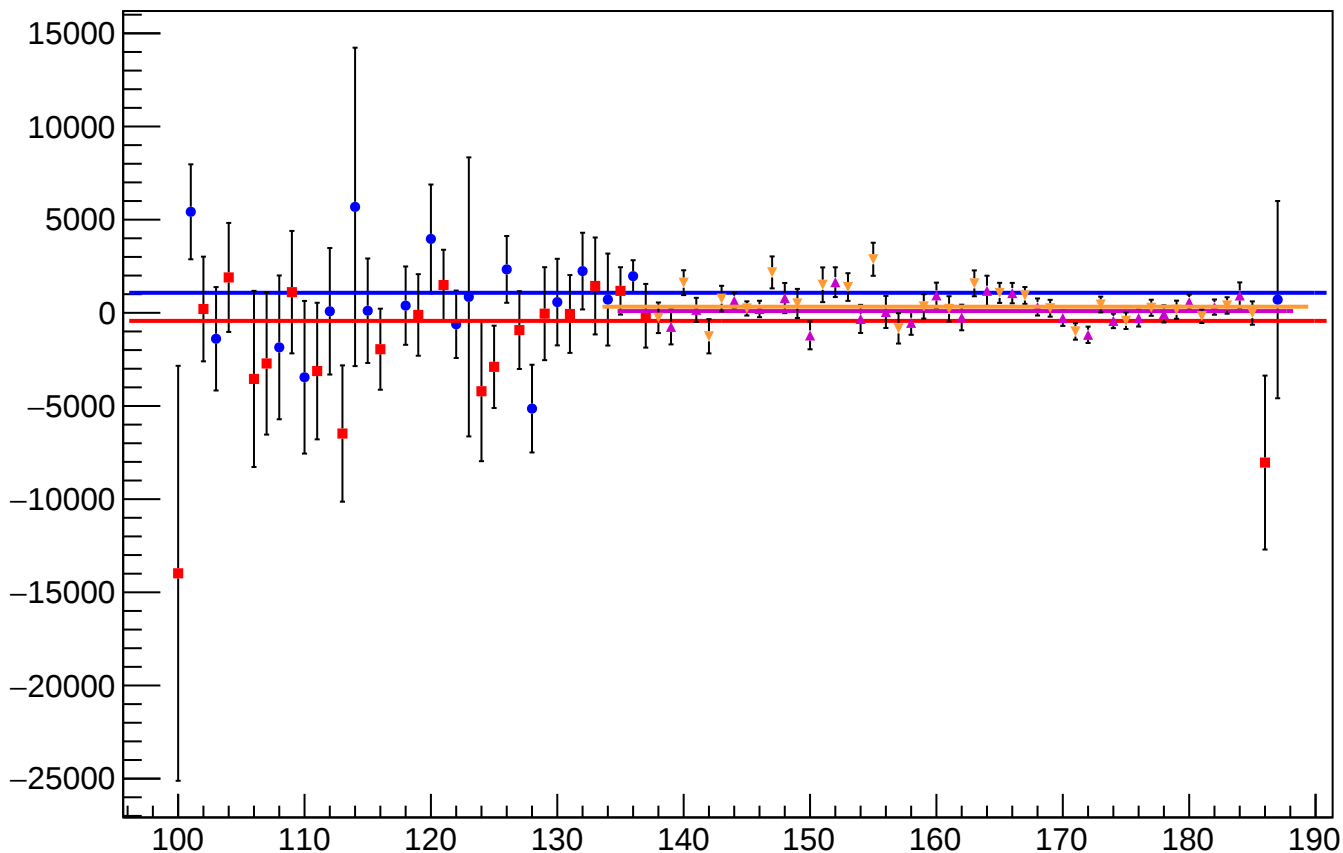
Right: 1303.697+/-0.263 χ^2/NDF : 3818568.2/37

In: 476.288+/-0.076 χ^2/NDF : 9002589.9/40

Out: 477.523+/-0.075 χ^2/NDF : 10884975.9/44

All: 476.916+/-0.053 χ^2/NDF : 19887699.3/85

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1075.375 $\pm$ 513.907 χ^2/NDF : 16.9/17

Left Out: 328.599 $\pm$ 109.668 χ^2/NDF : 47.7/24

Right Out: -432.477 $\pm$ 545.852 χ^2/NDF : 15.2/19

Left In: 93.310 $\pm$ 111.960 χ^2/NDF : 33.3/22

Left: 213.387 $\pm$ 78.345 χ^2/NDF : 83.3/47

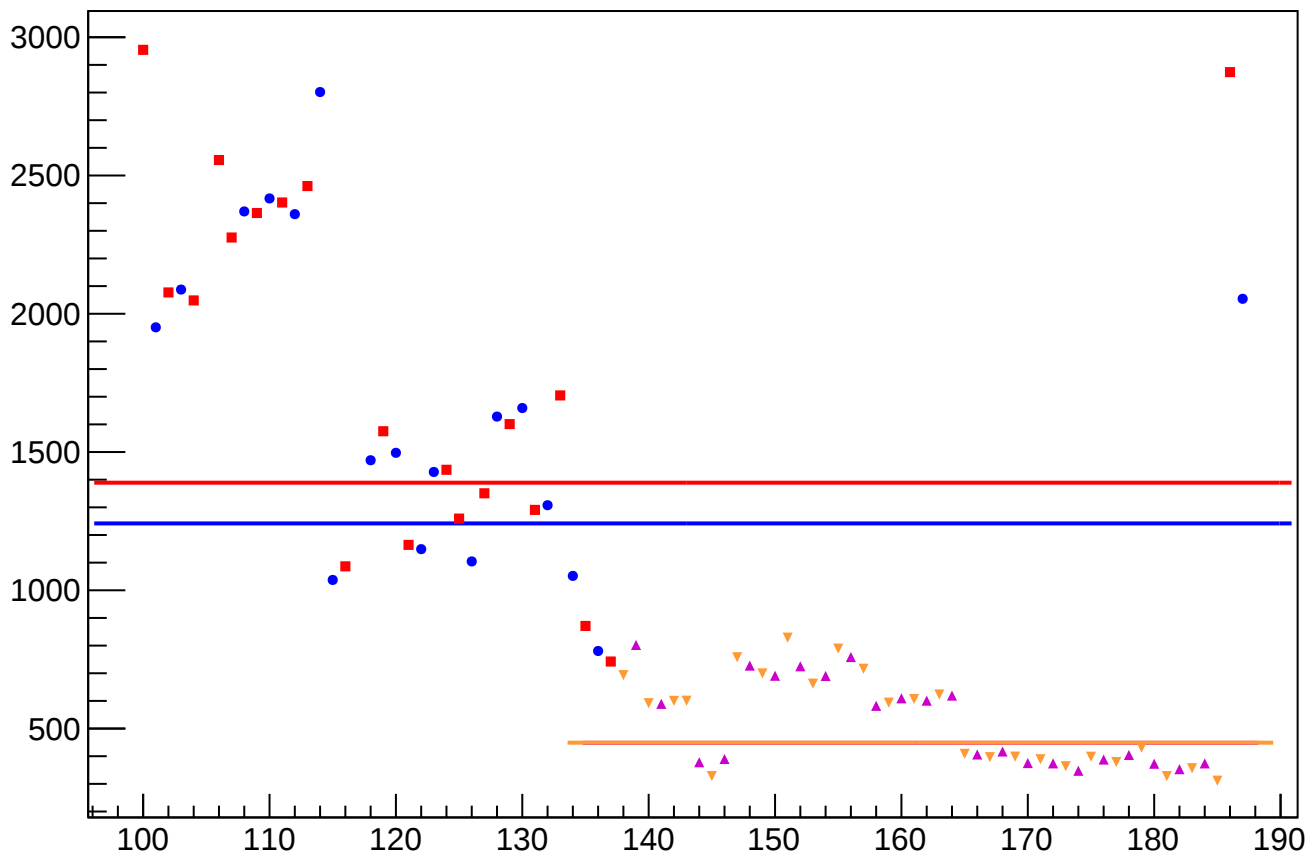
Right: 366.860 $\pm$ 374.171 χ^2/NDF : 36.1/37

In: 137.810 $\pm$ 109.394 χ^2/NDF : 53.7/40

Out: 299.069 $\pm$ 107.520 χ^2/NDF : 64.8/44

All: 219.833 $\pm$ 76.682 χ^2/NDF : 119.6/85

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: 1389.132+/-0.386 χ^2/NDF : 1950190.5/19

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

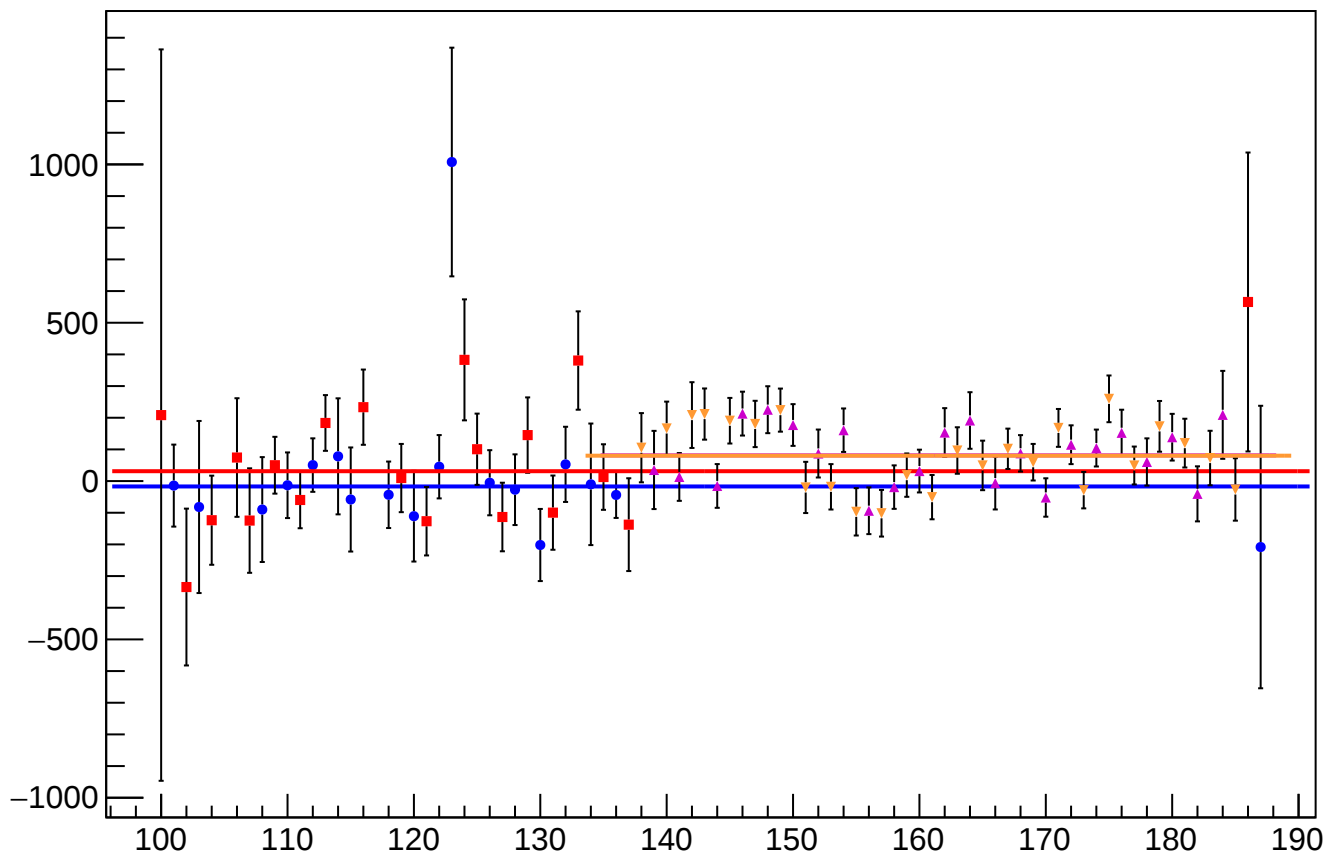
Right: 1311.063+/-0.265 χ^2/NDF : 3816886.7/37

In: 484.265+/-0.077 χ^2/NDF : 8879698.3/40

Out: 485.492+/-0.076 χ^2/NDF : 10743062.8/44

All: 484.889+/-0.054 χ^2/NDF : 19622889.2/85

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: 31.167 ± 28.000 $\chi^2/\text{NDF}: 28.9/19$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

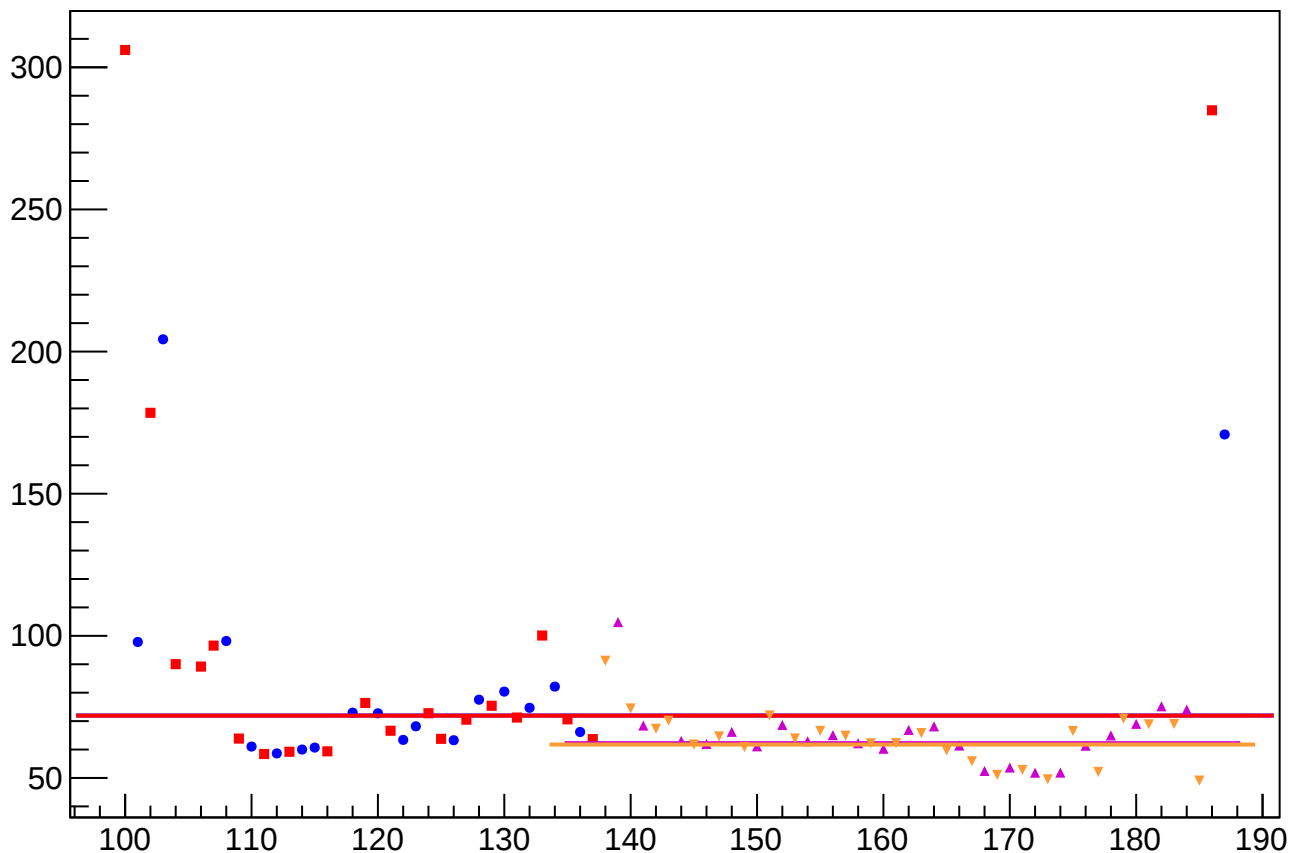
Right: 7.796 ± 20.091 $\chi^2/\text{NDF}: 43.8/37$

In: 60.031 ± 13.382 $\chi^2/\text{NDF}: 57.9/40$

Out: 69.704 ± 12.940 $\chi^2/\text{NDF}: 79.9/44$

All: 65.030 ± 9.302 $\chi^2/\text{NDF}: 138.0/85$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 71.982 $\pm$ 0.020 χ^2 /NDF: 857398.9/17

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 71.925 $\pm$ 0.020 χ^2 /NDF: 1173726.3/19

Left In: 62.250 $\pm$ 0.011 χ^2 /NDF: 591085.1/22

Left: 61.997 $\pm$ 0.007 χ^2 /NDF: 1237703.8/47

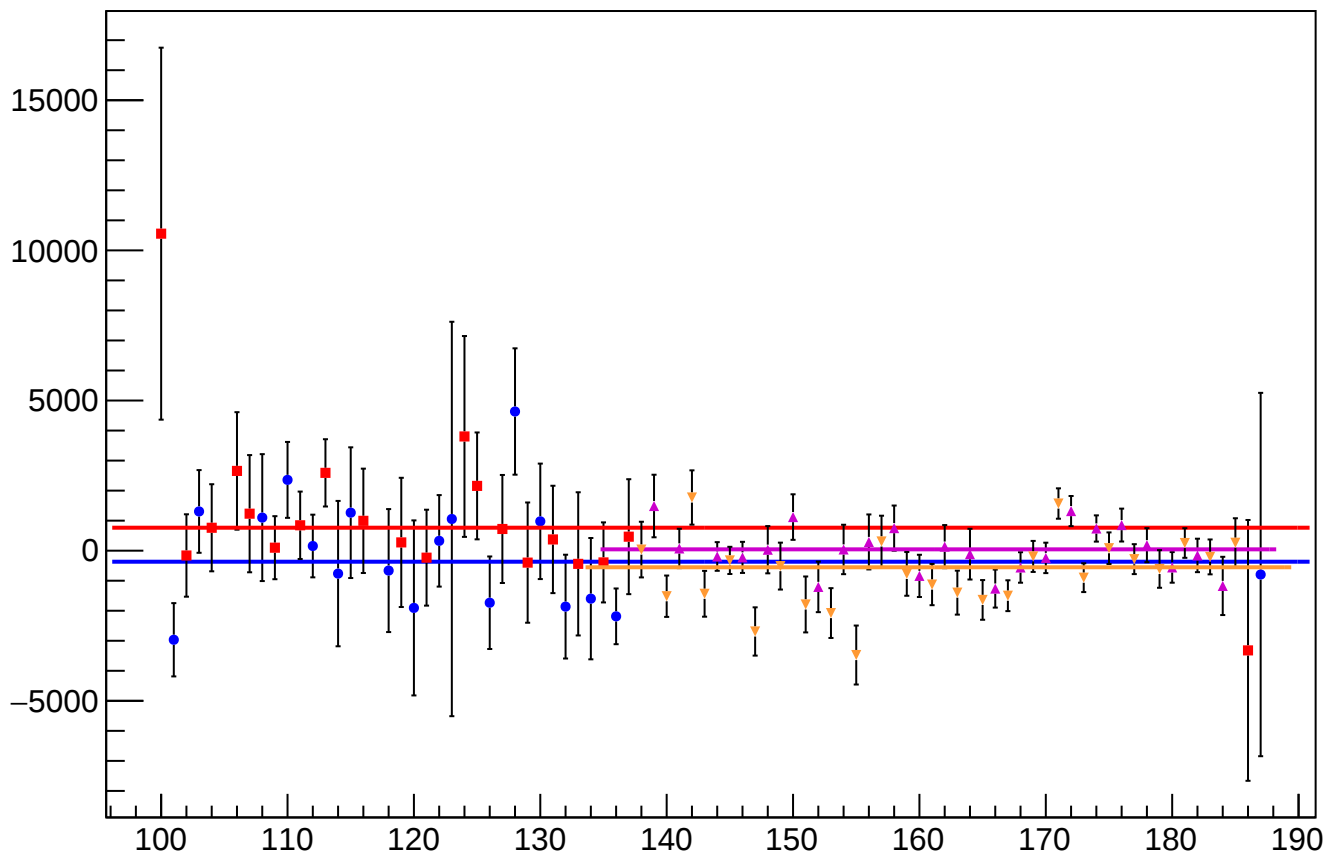
Right: 71.953 $\pm$ 0.014 χ^2 /NDF: 2031129.3/37

In: 64.344 $\pm$ 0.009 χ^2 /NDF: 1627145.6/40

Out: 63.932 $\pm$ 0.009 χ^2 /NDF: 2026502.1/44

All: 64.131 $\pm$ 0.007 χ^2 /NDF: 3654629.6/85

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -367.449 ± 382.212 $\chi^2/\text{NDF}: 24.4/17$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 764.987 ± 369.206 $\chi^2/\text{NDF}: 11.2/19$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

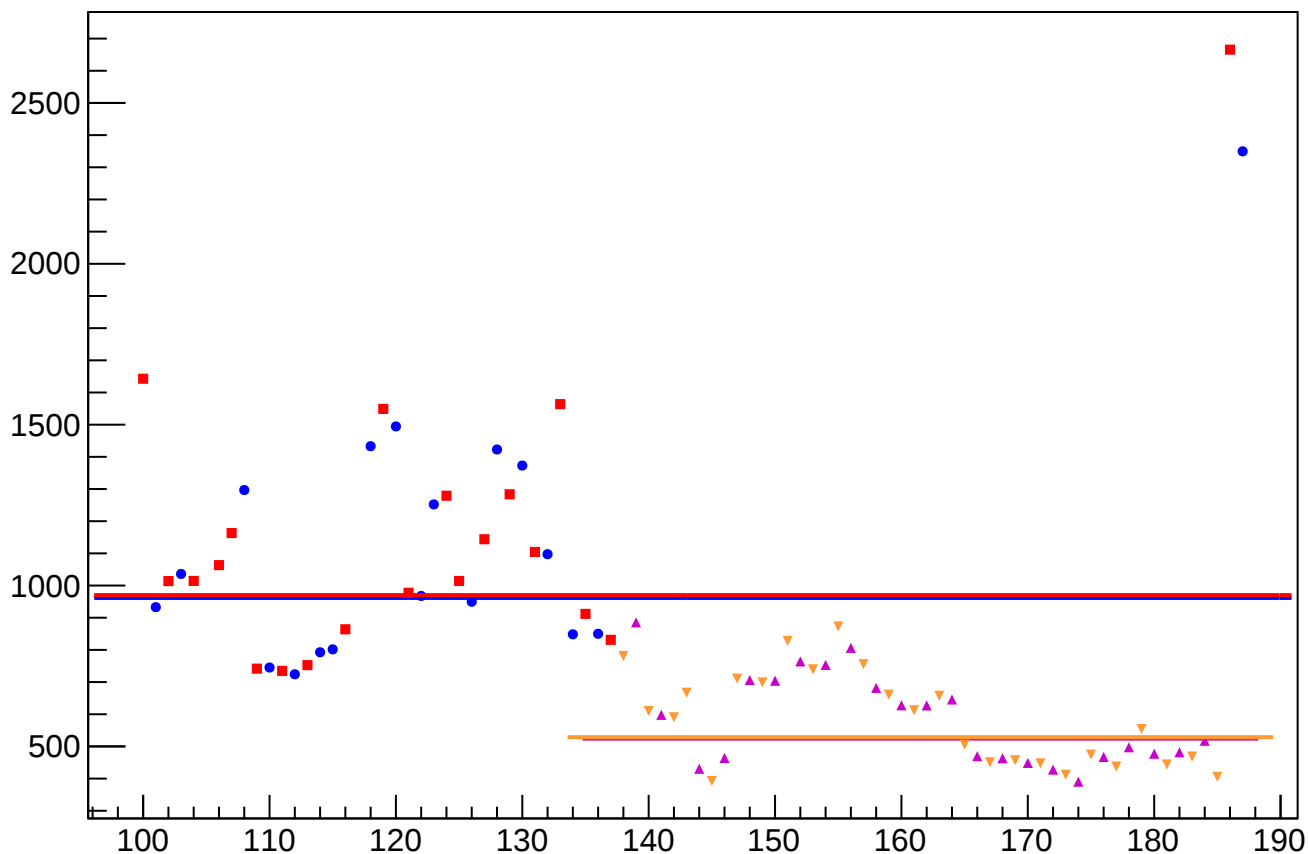
Right: 218.364 ± 265.547 $\chi^2/\text{NDF}: 40.2/37$

In: 2.388 ± 122.307 $\chi^2/\text{NDF}: 55.0/40$

Out: -413.151 ± 120.078 $\chi^2/\text{NDF}: 87.9/44$

All: -209.203 ± 85.685 $\chi^2/\text{NDF}: 148.8/85$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 961.610 $\pm$ 0.270 χ^2 /NDF: 757385.5/17

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 970.304 $\pm$ 0.261 χ^2 /NDF: 1002673.8/19

Left In: 524.268 $\pm$ 0.091 χ^2 /NDF:1716257.3/22

Left: 526.539 $\pm$ 0.064 χ^2 /NDF: 3701172.5/47

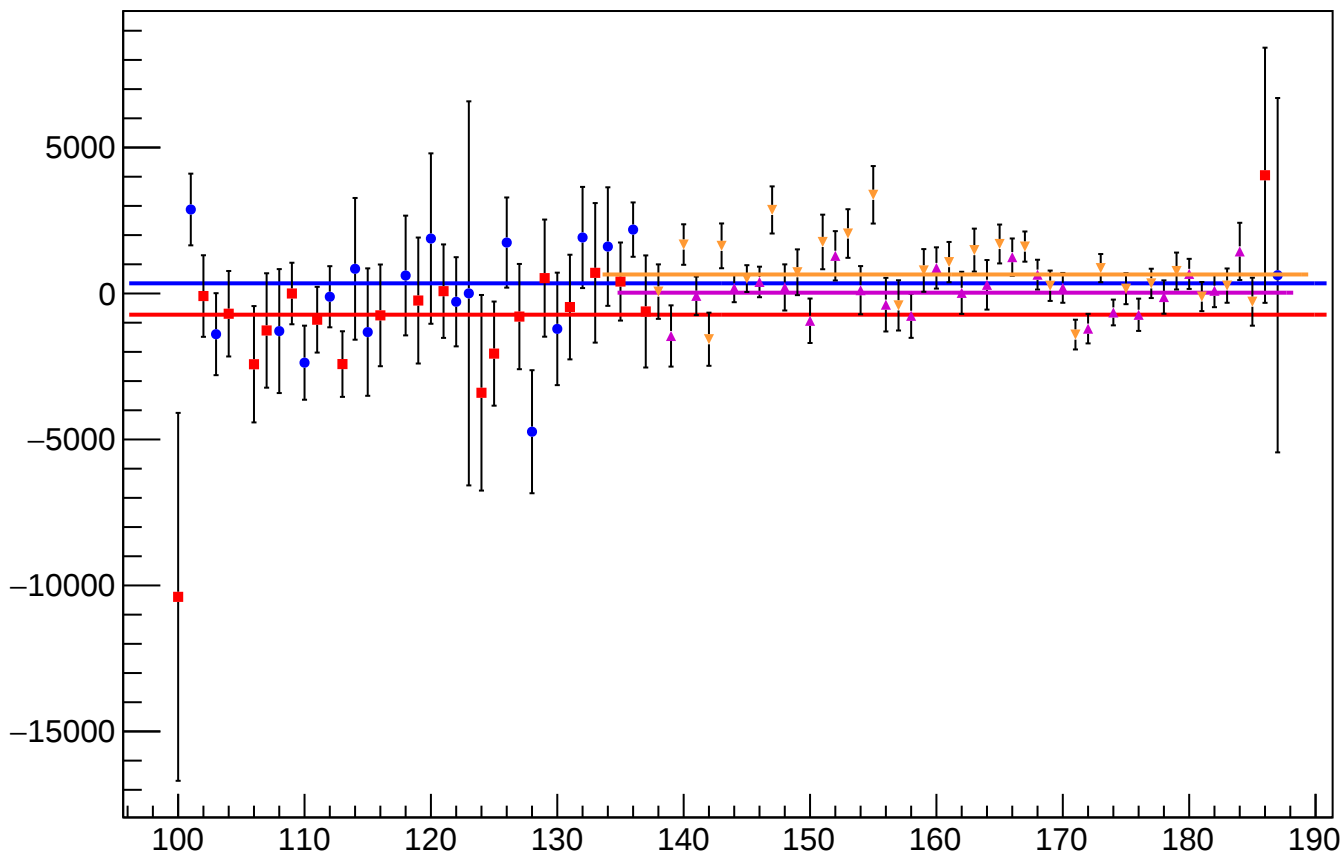
Right: 966.108 $\pm$ 0.188 χ^2 /NDF: 1760594.5/37

In: 569.051 $\pm$ 0.086 χ^2 /NDF:4824072.7/40

Out: 575.443 $\pm$ 0.085 χ^2 /NDF:5544567.4/44

All: 572.306 $\pm$ 0.061 χ^2 /NDF: 10371421.7/85

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: -725.736+/-371.076 χ^2/NDF : 10.3/19

Left In: 27.483+/-130.127 χ^2/NDF :28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

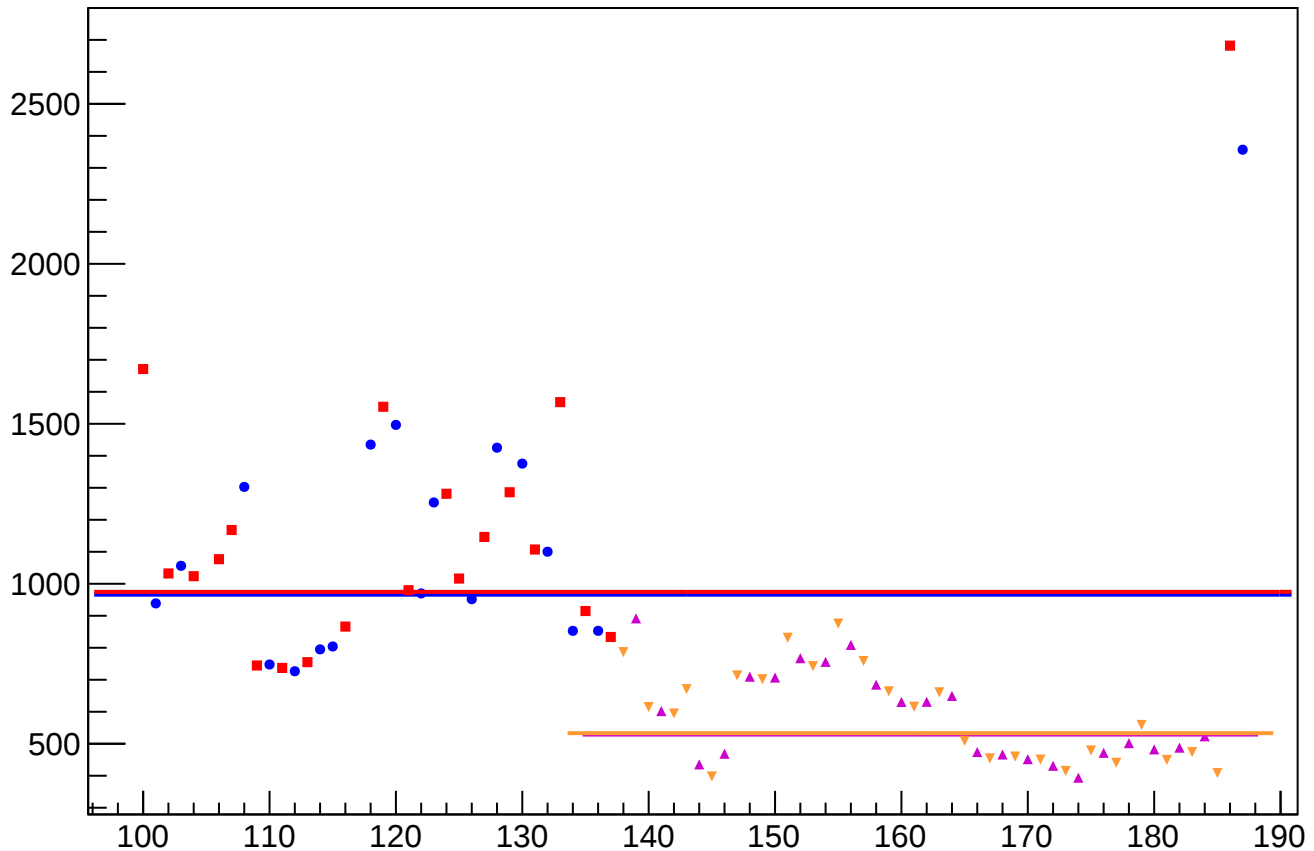
Right: -207.032+/-266.824 χ^2/NDF : 39.0/37

In: 60.535+/-123.241 χ^2/NDF :53.7/40

Out: 505.187+/-120.971 χ^2/NDF :83.7/44

All: 286.994+/-86.331 χ^2/NDF : 144.1/85

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: 974.834 $\pm$ 0.262 χ^2 /NDF: 1005730.0/19

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

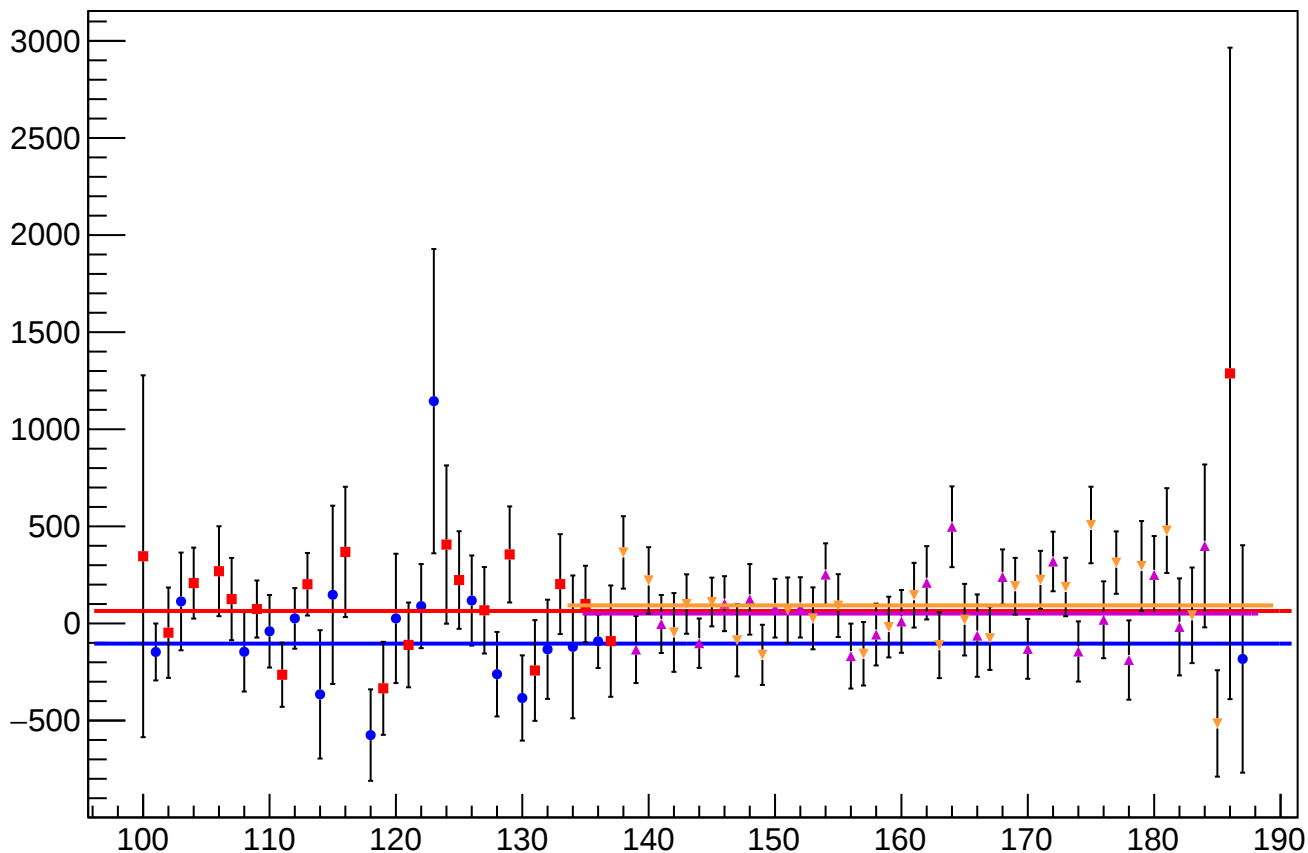
Right: 970.563 $\pm$ 0.189 χ^2 /NDF: 1763491.7/37

In: 573.749 $\pm$ 0.087 χ^2 /NDF:4772834.7/40

Out: 580.010 $\pm$ 0.086 χ^2 /NDF:5490691.1/44

All: 576.938 $\pm$ 0.061 χ^2 /NDF: 10266154.5/85

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -103.830 ± 52.806 $\chi^2/\text{NDF}: 13.2/17$

Left Out: 92.994 ± 34.054 $\chi^2/\text{NDF}: 29.4/24$

Right Out: 64.210 ± 50.899 $\chi^2/\text{NDF}: 15.8/19$

Left In: 50.896 ± 35.280 $\chi^2/\text{NDF}: 23.5/22$

Left: 72.689 ± 24.502 $\chi^2/\text{NDF}: 53.6/47$

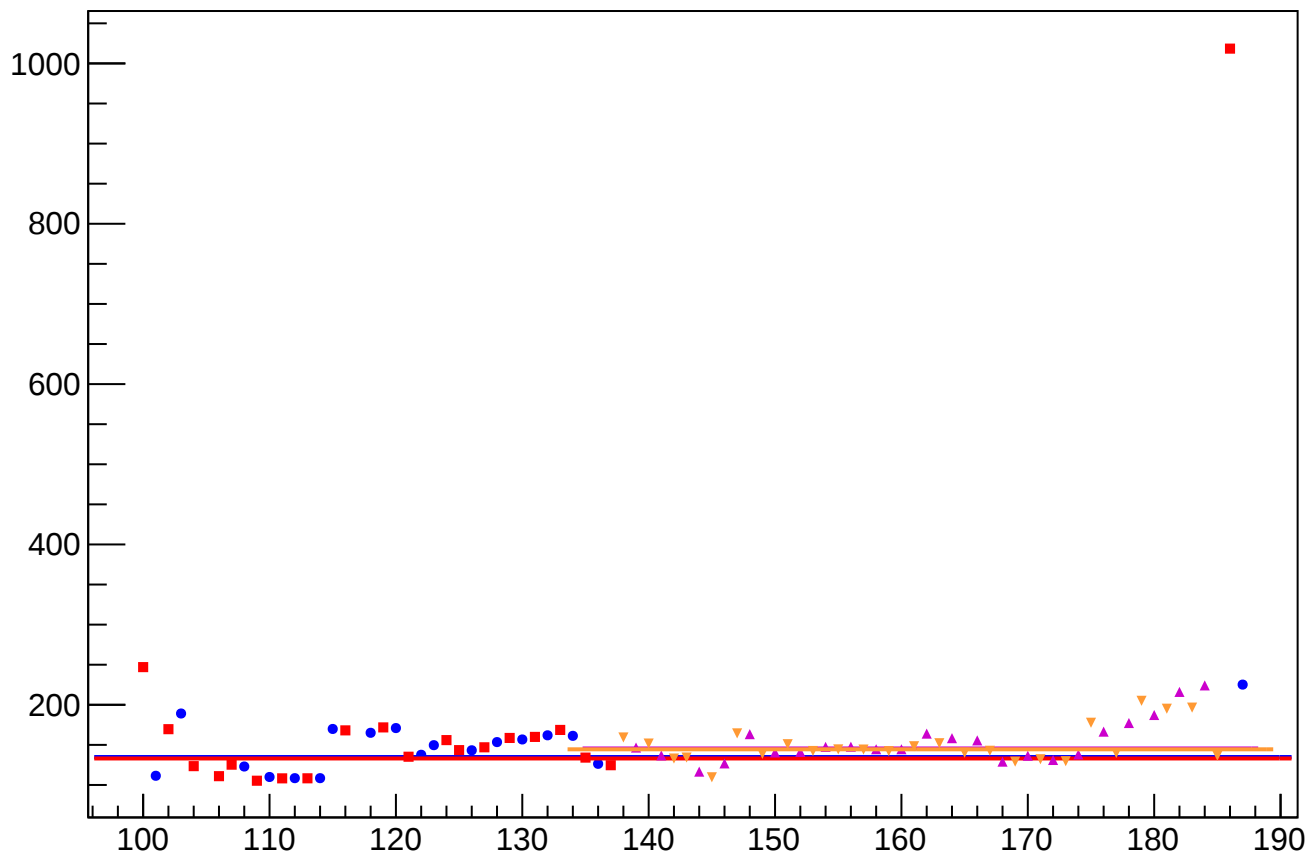
Right: -16.720 ± 36.647 $\chi^2/\text{NDF}: 34.2/37$

In: 3.146 ± 29.335 $\chi^2/\text{NDF}: 42.6/40$

Out: 84.094 ± 28.303 $\chi^2/\text{NDF}: 45.4/44$

All: 45.069 ± 20.368 $\chi^2/\text{NDF}: 92.0/85$

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: 133.055 $\pm$ 0.036 χ^2 /NDF: 1001281.9/19

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

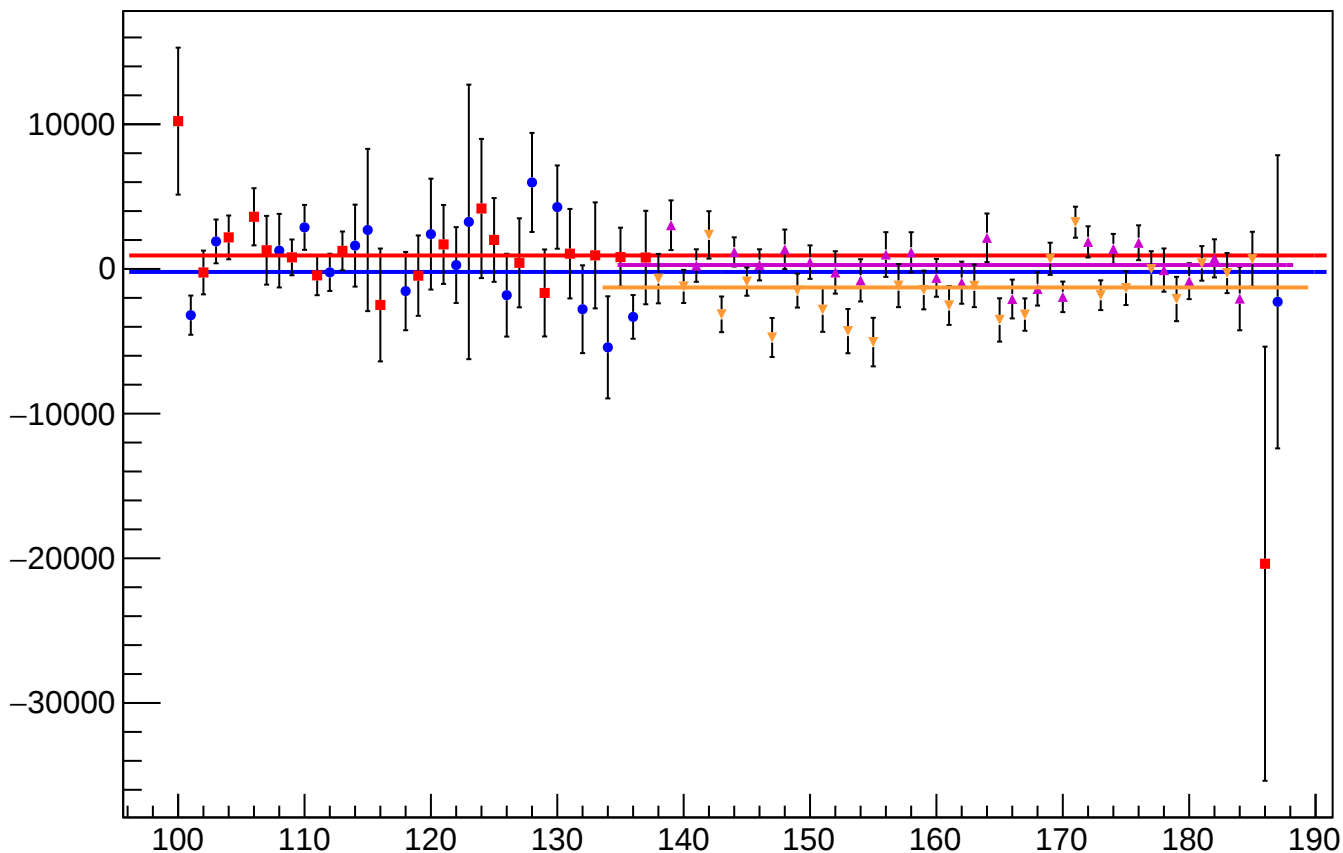
Right: 133.926 $\pm$ 0.026 χ^2 /NDF: 1452952.0/37

In: 142.241 $\pm$ 0.021 χ^2 /NDF: 1150461.8/40

Out: 140.944 $\pm$ 0.020 χ^2 /NDF: 1741320.8/44

All: 141.569 $\pm$ 0.014 χ^2 /NDF: 2893808.1/85

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: 931.858 ± 481.328 χ^2/NDF : 12.0/19

Left In: 269.952 ± 266.245 χ^2/NDF : 24.3/22

Left: -525.161 ± 185.759 χ^2/NDF : 97.6/47

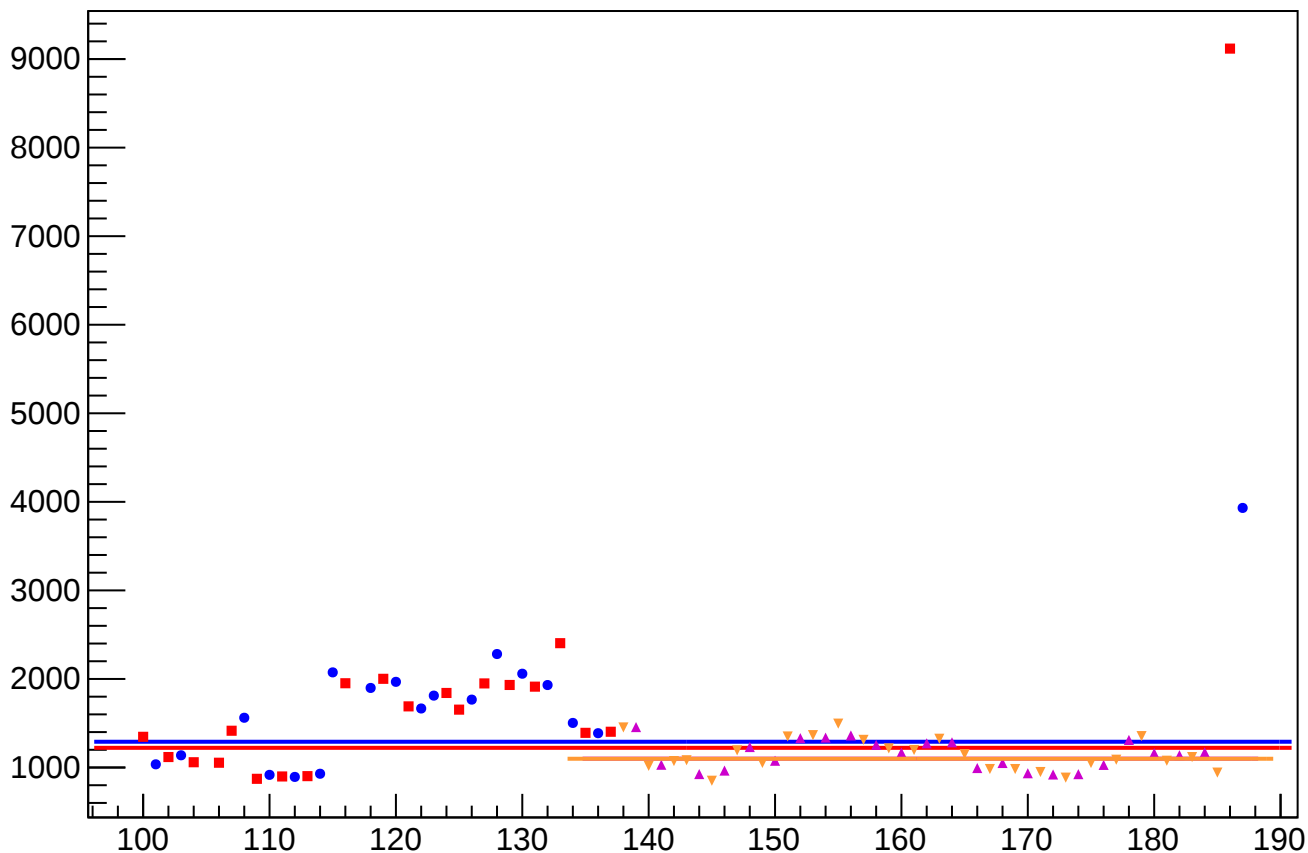
Right: 410.754 ± 354.535 χ^2/NDF : 40.4/37

In: 172.083 ± 237.380 χ^2/NDF : 50.8/40

Out: -781.955 ± 228.281 χ^2/NDF : 84.3/44

All: -323.571 ± 164.542 χ^2/NDF : 143.5/85

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: 1222.296 $\pm$ 0.340 χ^2 /NDF: 1915293.5/19

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

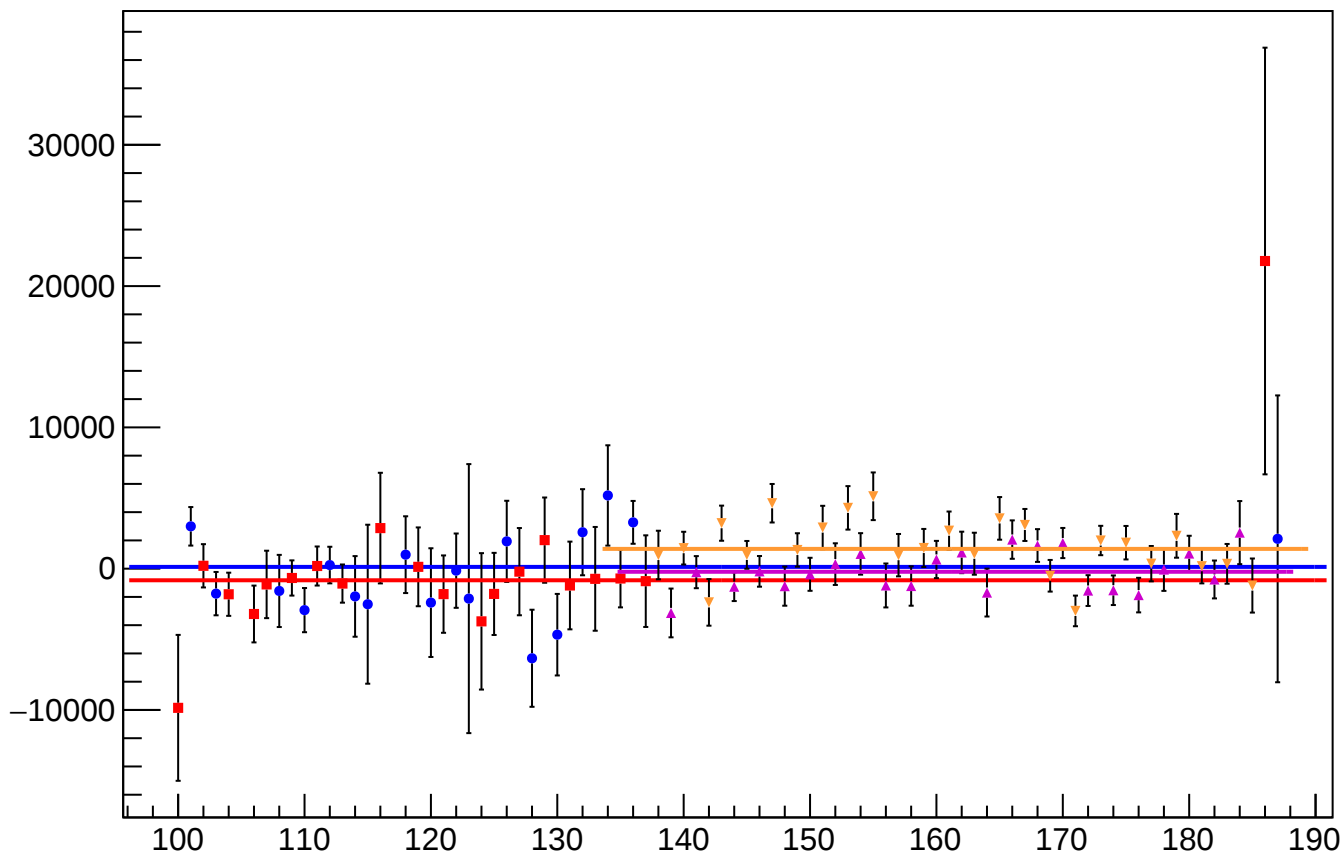
Right: 1253.710 $\pm$ 0.251 χ^2 /NDF: 3241755.1/37

In: 1138.833 $\pm$ 0.168 χ^2 /NDF: 2199663.1/40

Out: 1126.663 $\pm$ 0.161 χ^2 /NDF: 2841487.0/44

All: 1132.510 $\pm$ 0.116 χ^2 /NDF: 5043881.3/85

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: -821.701+/-485.014 χ^2/NDF : 10.7/19

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

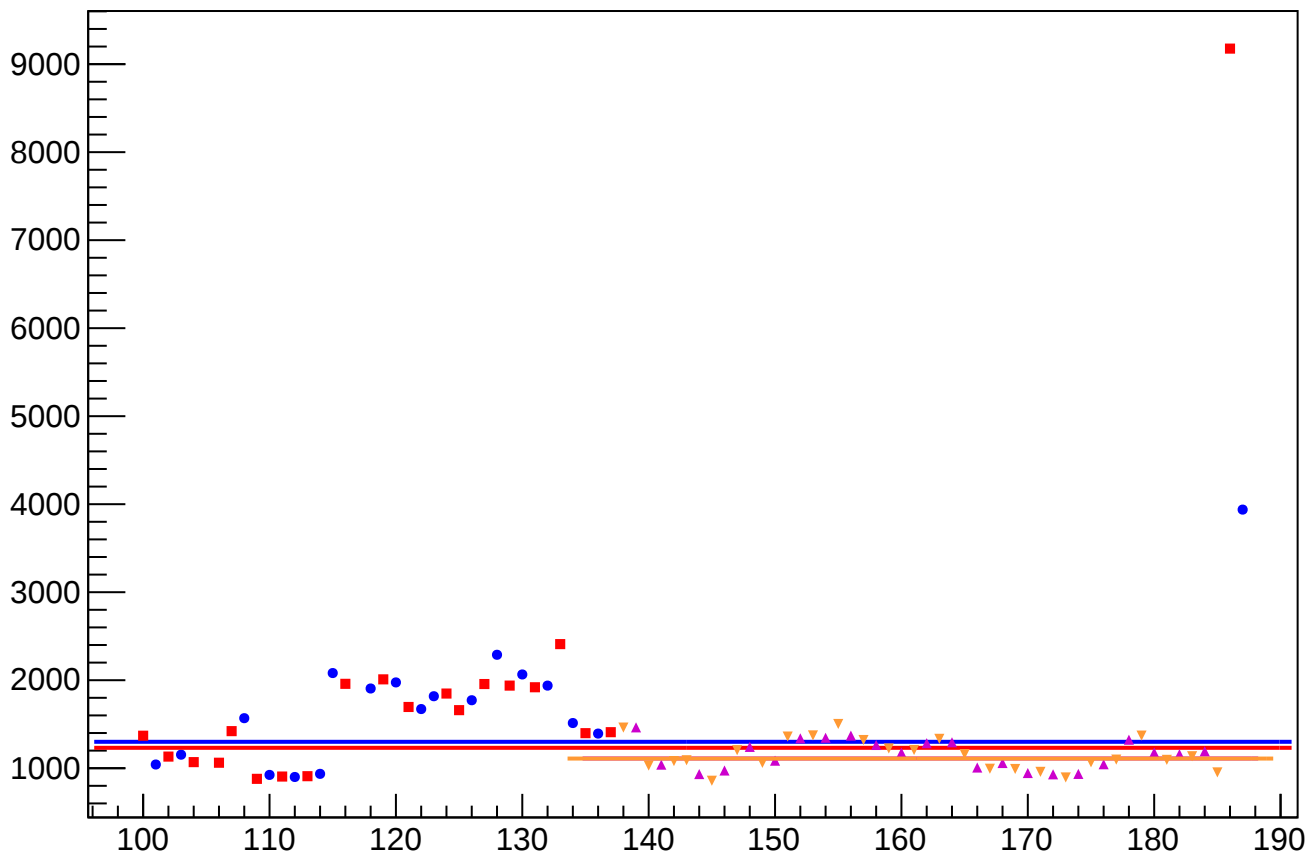
Right: -387.815+/-357.061 χ^2/NDF : 37.8/37

In: -148.276+/-239.543 χ^2/NDF : 50.7/40

Out: 899.076+/-230.383 χ^2/NDF : 79.2/44

All: 395.808+/-166.049 χ^2/NDF : 139.8/85

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: 1231.918+/-0.343 χ^2/NDF : 1900028.3/19

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

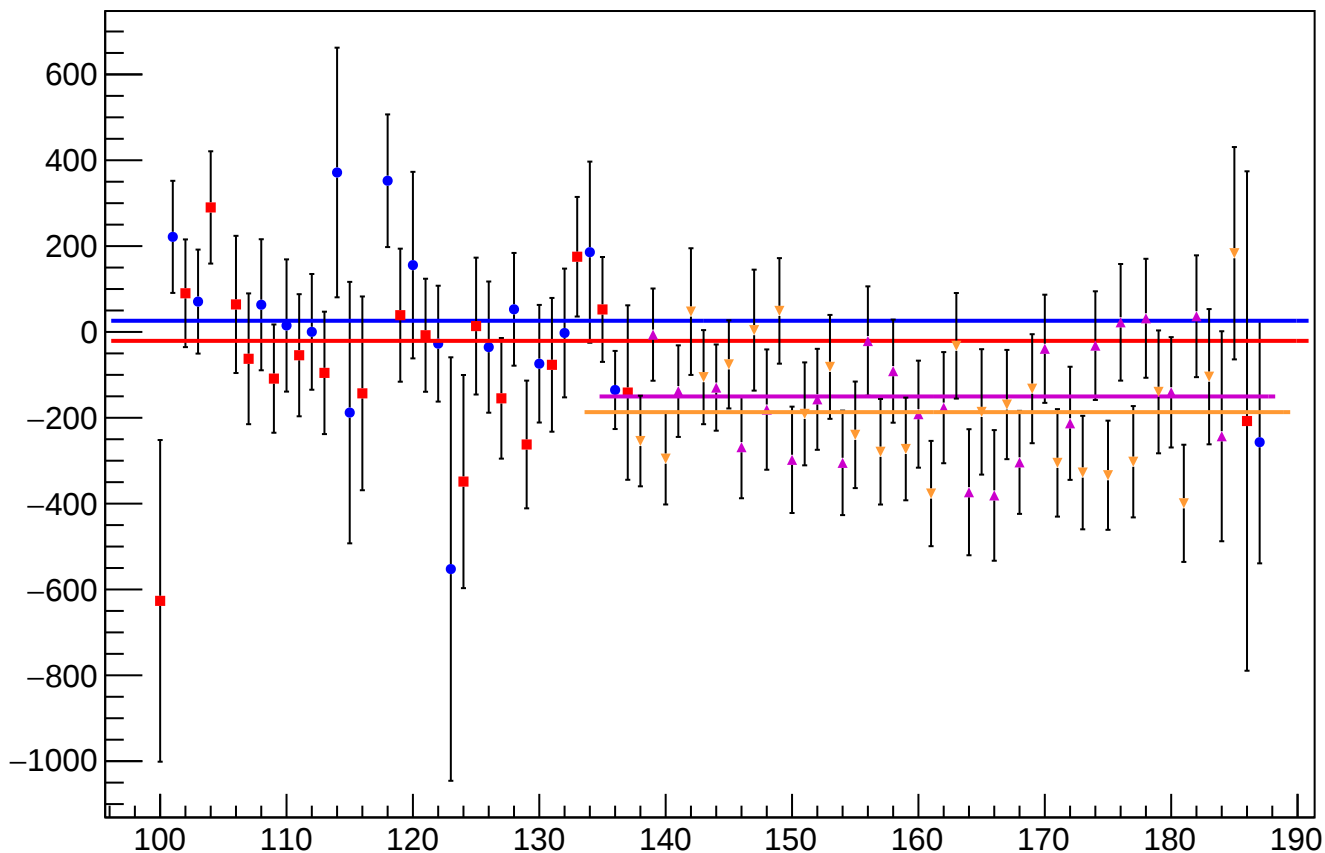
Right: 1263.165+/-0.252 χ^2/NDF : 3212397.7/37

In: 1149.626+/-0.169 χ^2/NDF : 2169215.8/40

Out: 1137.323+/-0.163 χ^2/NDF : 2810447.0/44

All: 1143.235+/-0.117 χ^2/NDF : 4982403.5/85

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



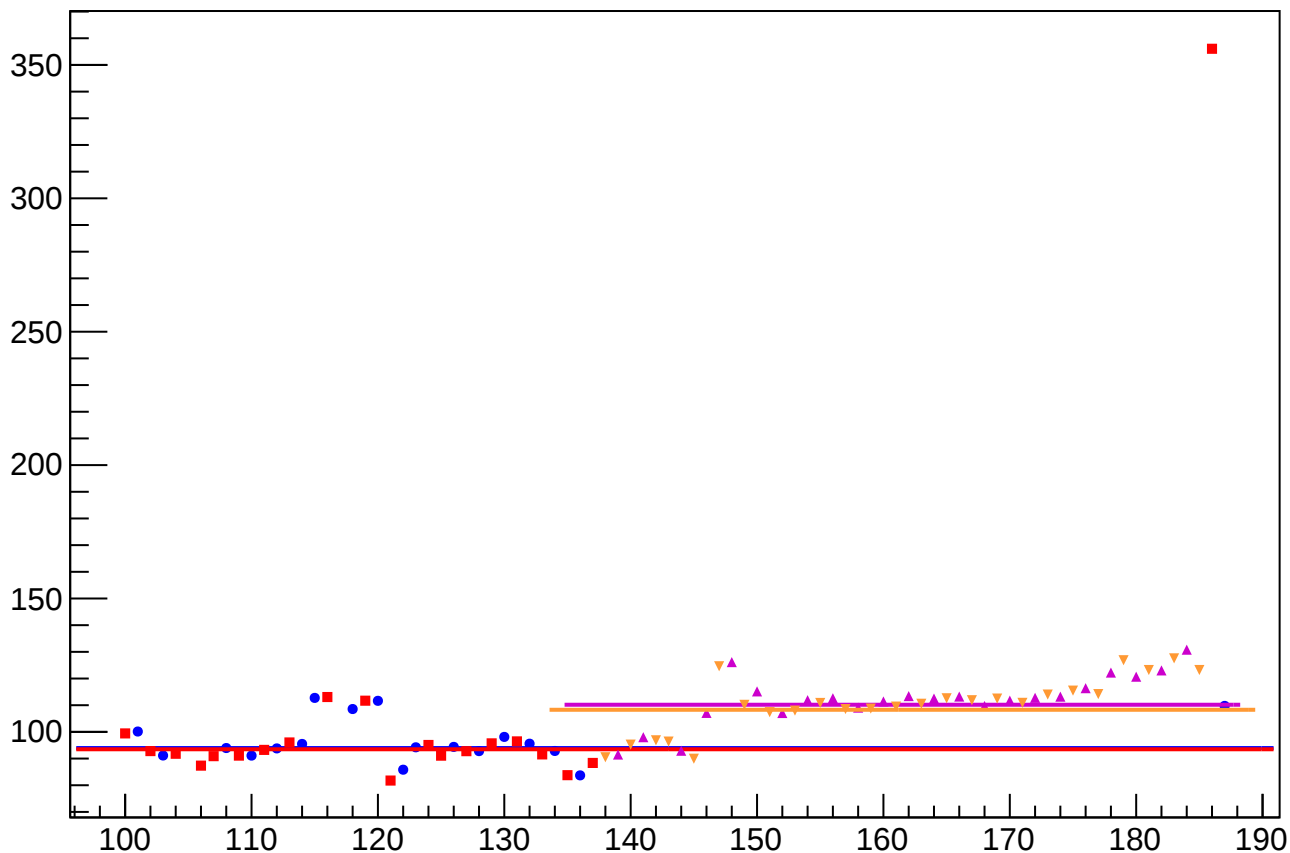
Right In: 26.028 ± 36.137 $\chi^2/\text{NDF}: 16.2/17$
 Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$
 Right Out: -20.777 ± 34.712 $\chi^2/\text{NDF}: 18.9/19$
 Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$
 Right: 1.685 ± 25.034 $\chi^2/\text{NDF}: 36.0/37$

In: -88.814 ± 21.341 $\chi^2/\text{NDF}: 52.4/40$
 Out: -129.203 ± 20.450 $\chi^2/\text{NDF}: 60.5/44$

All: -109.870 ± 14.765 $\chi^2/\text{NDF}: 114.7/85$

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: 93.483 $\pm$ 0.025 χ^2 /NDF: 487698.7/19

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

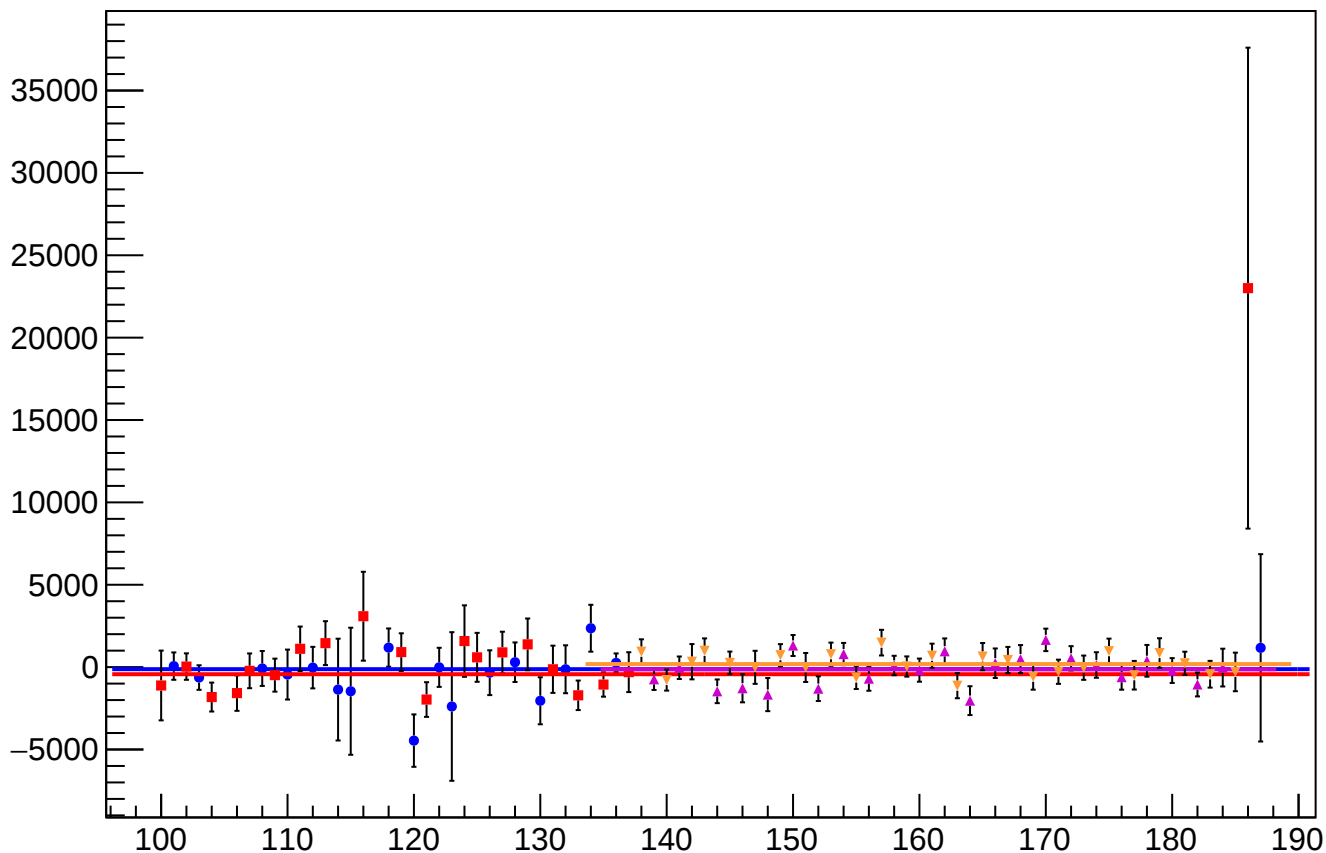
Right: 93.699 $\pm$ 0.018 χ^2 /NDF: 574106.7/37

In: 104.510 $\pm$ 0.015 χ^2 /NDF: 596241.9/40

Out: 103.149 $\pm$ 0.014 χ^2 /NDF: 1055925.0/44

All: 103.800 $\pm$ 0.010 χ^2 /NDF: 1656403.5/85

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -124.920+/-276.739 χ^2/NDF : 15.3/17

Left Out: 185.392+/-153.683 χ^2/NDF : 18.4/24

Right Out: -430.619+/-260.652 χ^2/NDF : 21.8/19

Left In: -128.782+/-157.155 χ^2/NDF : 36.2/22

Left: 31.814+/-109.877 χ^2/NDF : 56.6/47

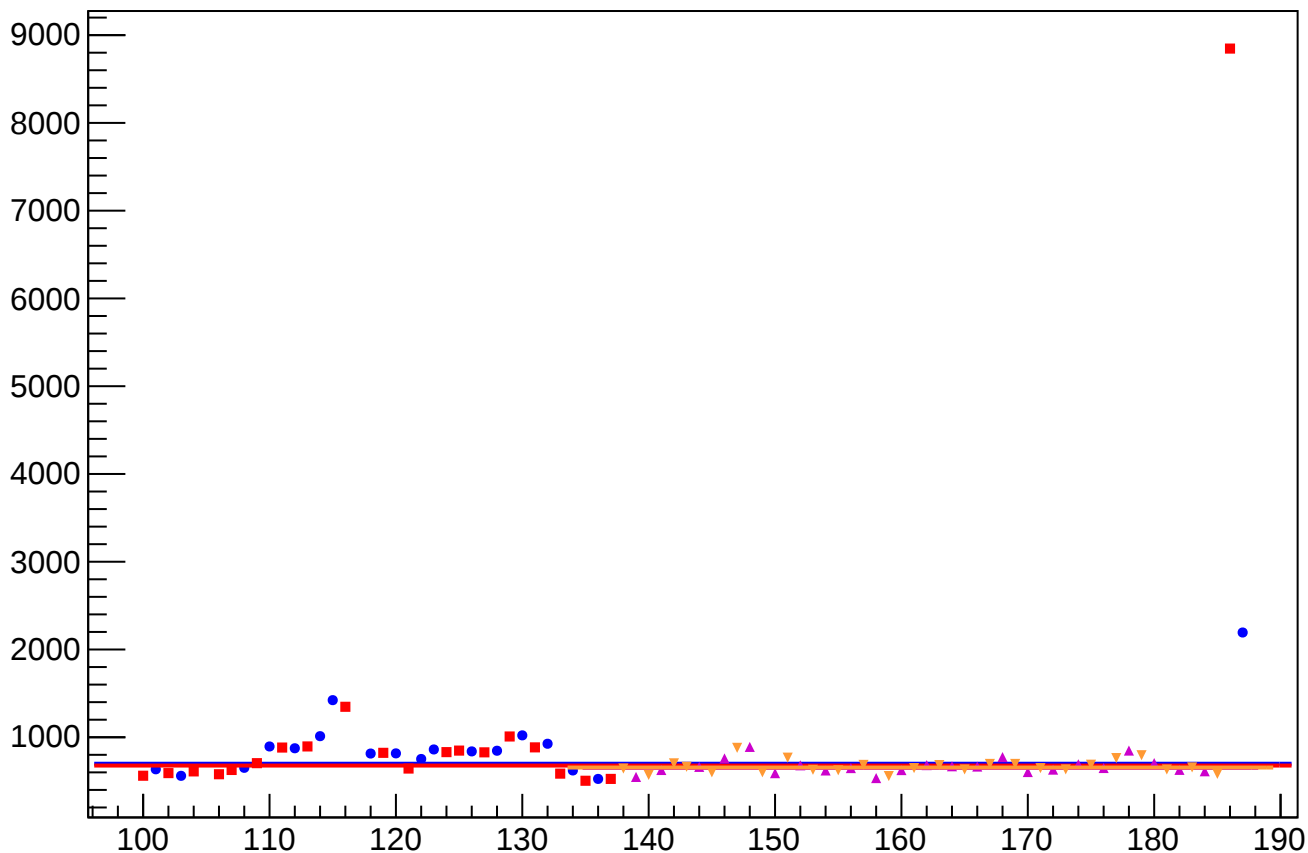
Right: -286.912+/-189.741 χ^2/NDF : 37.8/37

In: -127.840+/-136.657 χ^2/NDF : 51.5/40

Out: 26.485+/-132.385 χ^2/NDF : 44.3/44

All: -48.228+/-95.085 χ^2/NDF : 96.5/85

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: 677.592+/-0.184 χ^2/NDF : 1306343.2/19

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

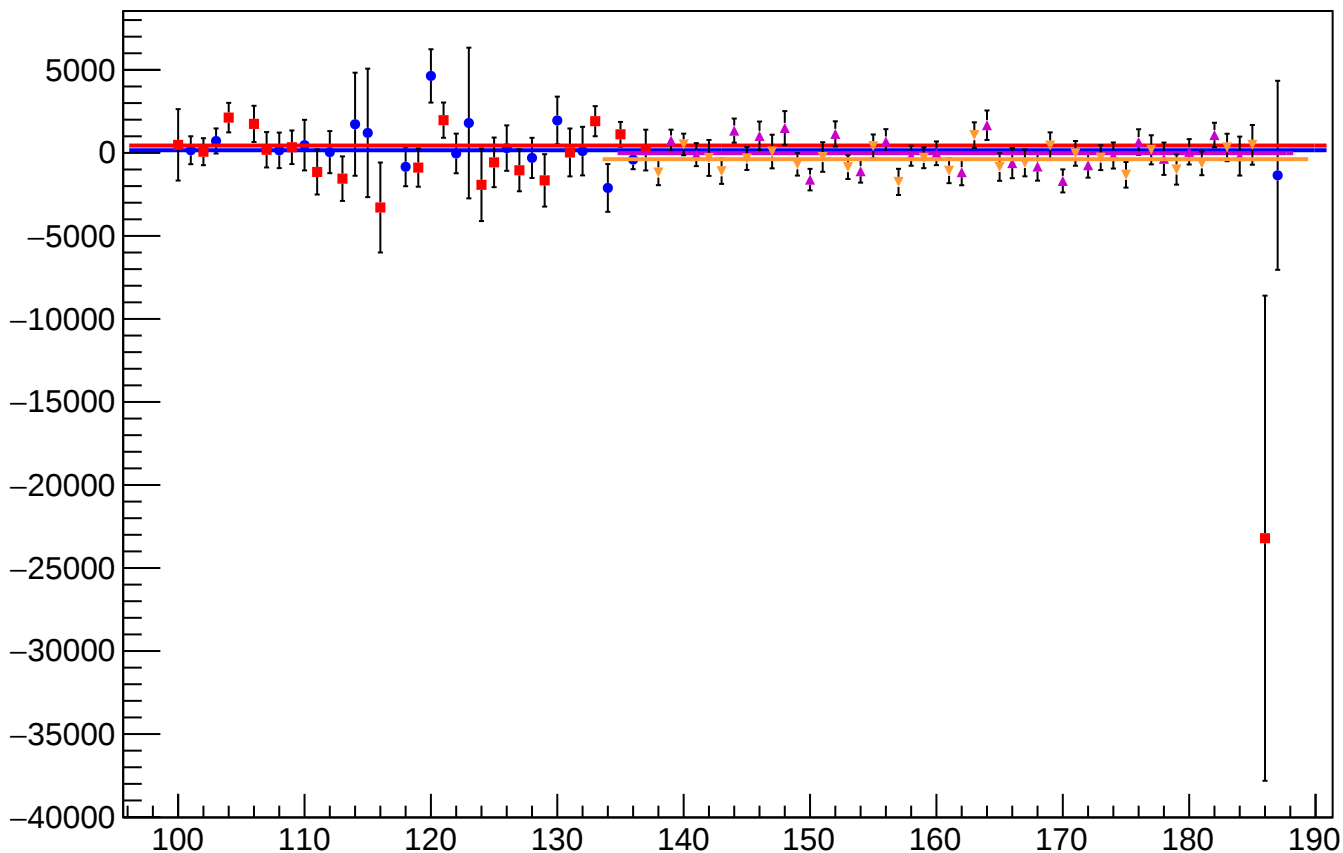
Right: 687.352+/-0.134 χ^2/NDF : 2128842.3/37

In: 662.459+/-0.097 χ^2/NDF : 1327150.0/40

Out: 660.943+/-0.094 χ^2/NDF : 1684689.1/44

All: 661.677+/-0.067 χ^2/NDF : 3011966.1/85

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: 443.202+/-263.343 χ^2/NDF : 25.2/19

Left In: -14.768+/-159.513 χ^2/NDF :37.2/22

Left: -201.306+/-111.491 χ^2/NDF : 58.7/47

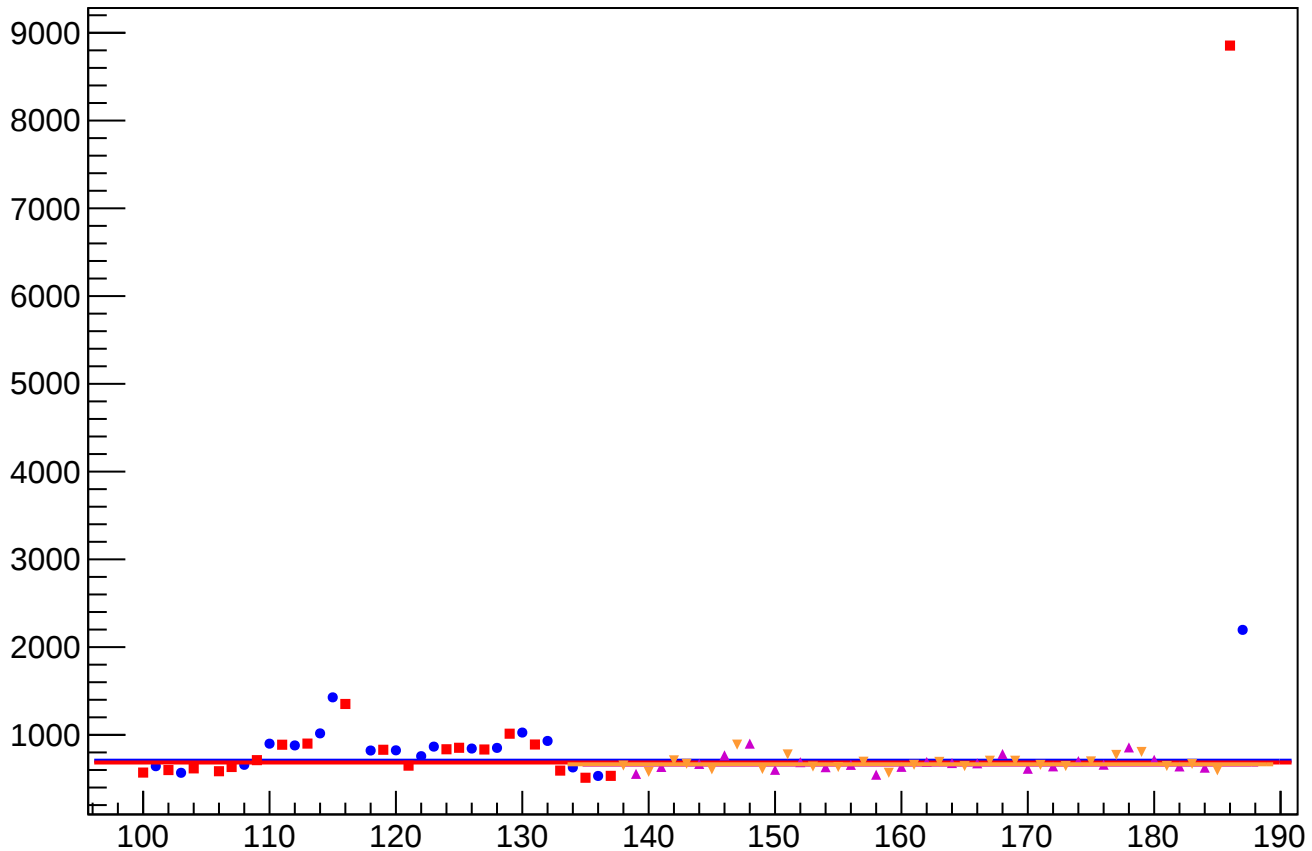
Right: 309.958+/-191.669 χ^2/NDF : 40.5/37

In: 28.138+/-138.539 χ^2/NDF :52.3/40

Out: -165.990+/-134.149 χ^2/NDF :51.2/44

All: -72.051+/-96.372 χ^2/NDF : 104.5/85

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: 685.161+/-0.186 χ^2/NDF : 1288451.6/19

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

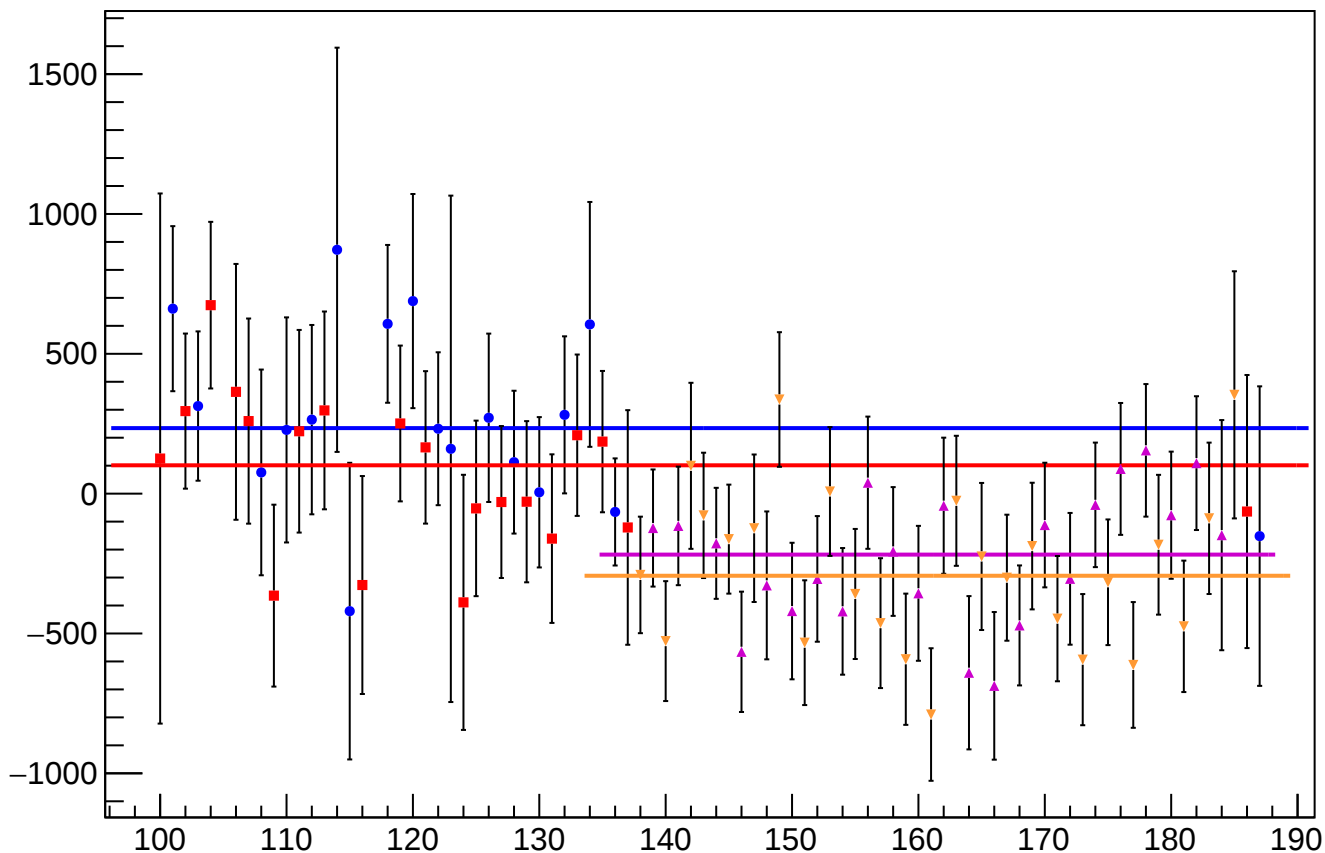
Right: 694.899+/-0.136 χ^2/NDF : 2092450.9/37

In: 671.941+/-0.098 χ^2/NDF : 1286431.5/40

Out: 670.063+/-0.095 χ^2/NDF : 1654382.7/44

All: 670.972+/-0.068 χ^2/NDF : 2941003.8/85

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: 101.348 $\pm$ 73.576 χ^2 /NDF: 12.0/19

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

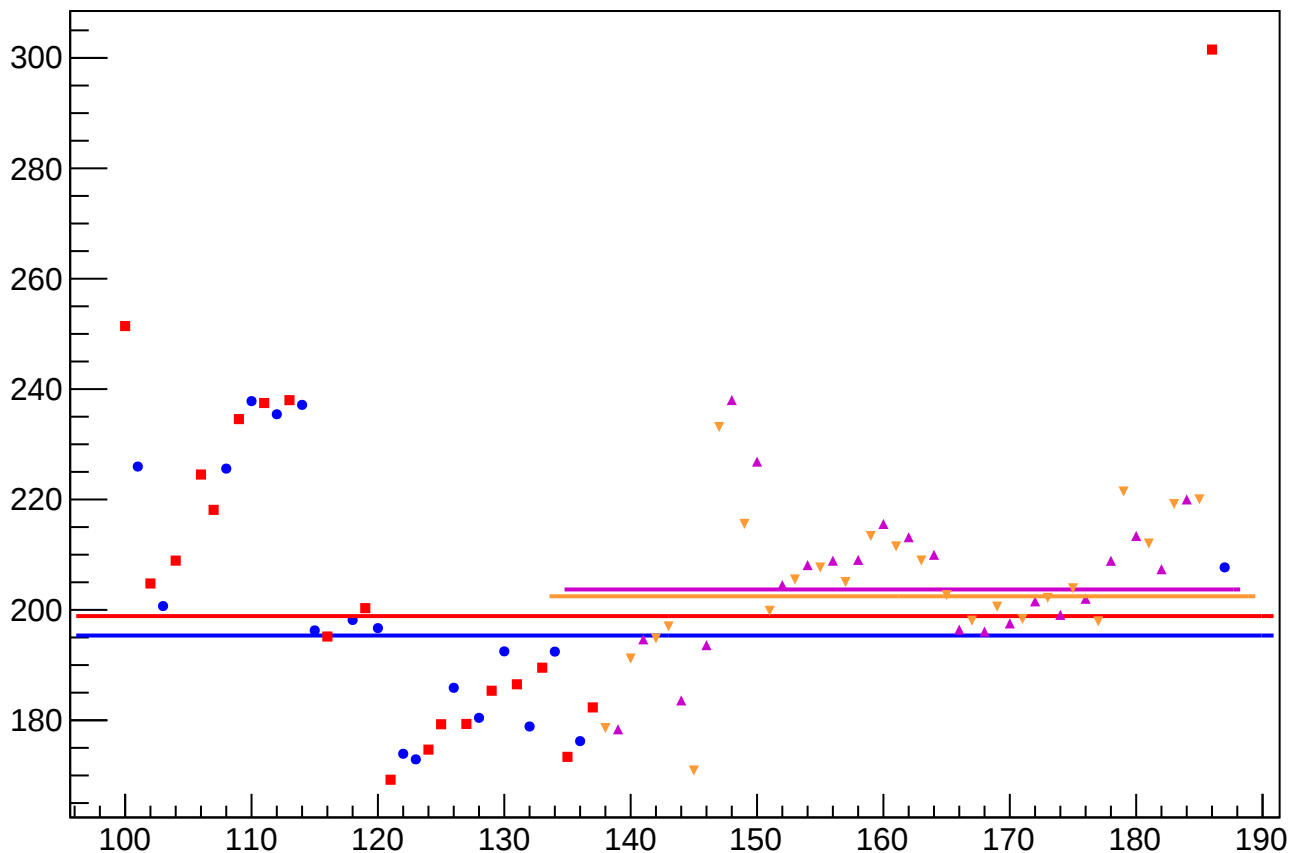
Right: 166.253 $\pm$ 52.642 χ^2 /NDF: 26.1/37

In: -84.237 $\pm$ 40.971 χ^2 /NDF:59.2/40

Out: -178.436 $\pm$ 39.730 χ^2 /NDF:62.7/44

All: -132.785 $\pm$ 28.522 χ^2 /NDF: 124.6/85

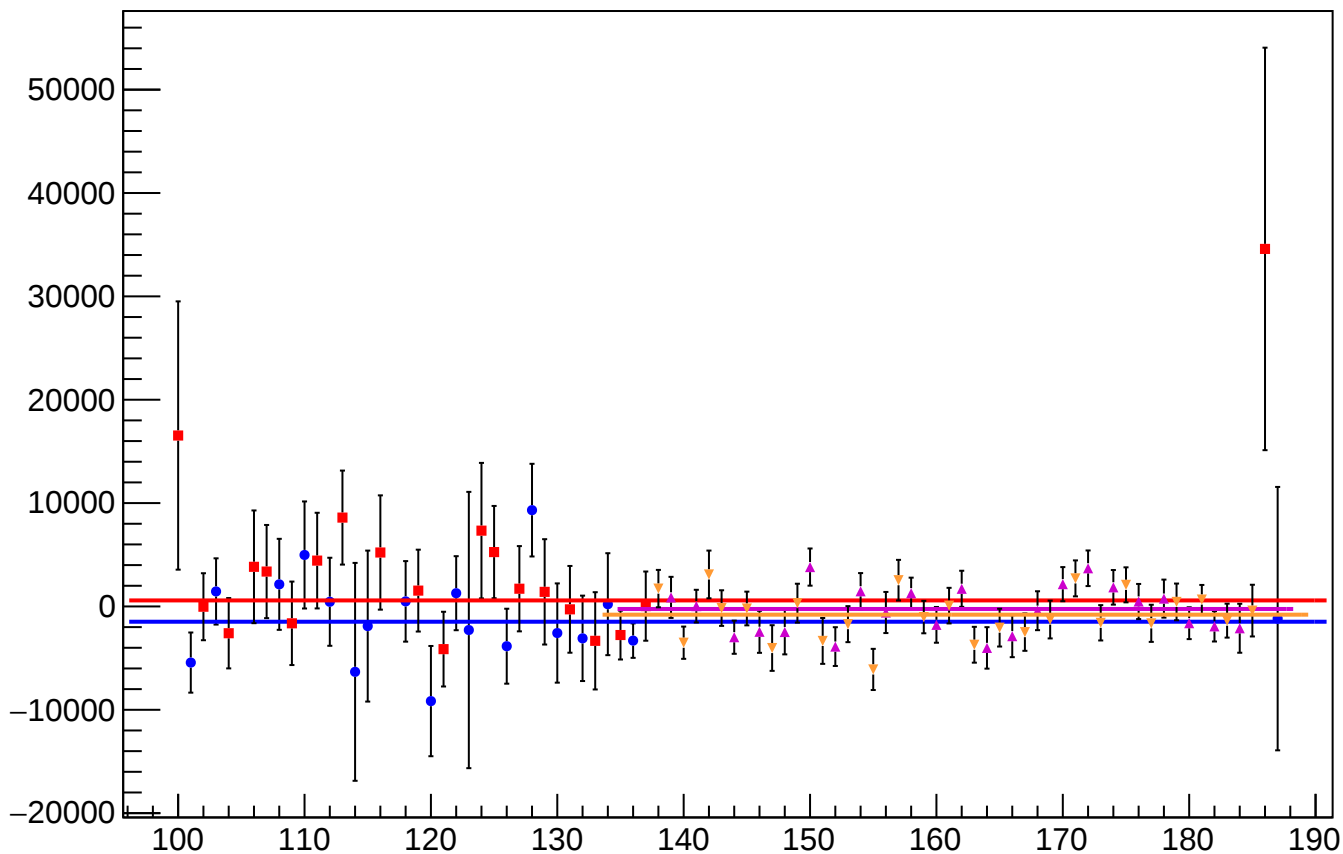
reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



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: 198.873 $\pm$ 0.052 χ^2 /NDF: 261820.1/19
 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: 197.155 $\pm$ 0.037 χ^2 /NDF: 407675.5/37
 In: 201.231 $\pm$ 0.029 χ^2 /NDF:297094.8/40
 Out: 201.413 $\pm$ 0.028 χ^2 /NDF:423767.7/44
 All: 201.325 $\pm$ 0.020 χ^2 /NDF: 720882.8/85

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: 582.409 $\pm$ 935.461 χ^2 /NDF: 17.8/19

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

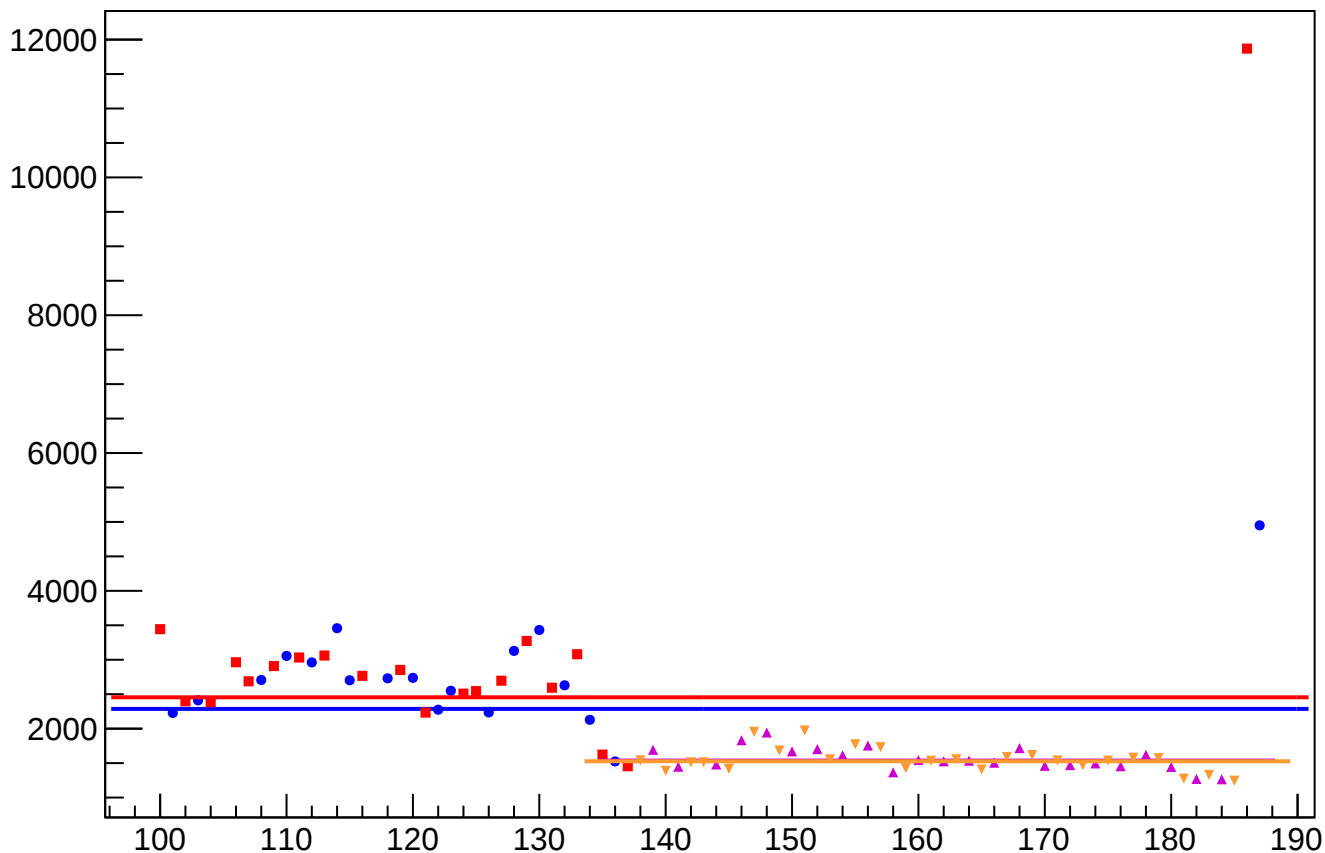
Right: -476.586 $\pm$ 652.367 χ^2 /NDF: 36.3/37

In: -419.981 $\pm$ 342.641 χ^2 /NDF: 53.3/40

Out: -620.499 $\pm$ 334.231 χ^2 /NDF: 55.4/44

All: -522.731 $\pm$ 239.255 χ^2 /NDF: 108.9/85

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: 2455.028+/-0.661 χ^2/NDF : 1151368.0/19

Left In: 1536.538+/-0.262 χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182 χ^2/NDF : 745995.2/47

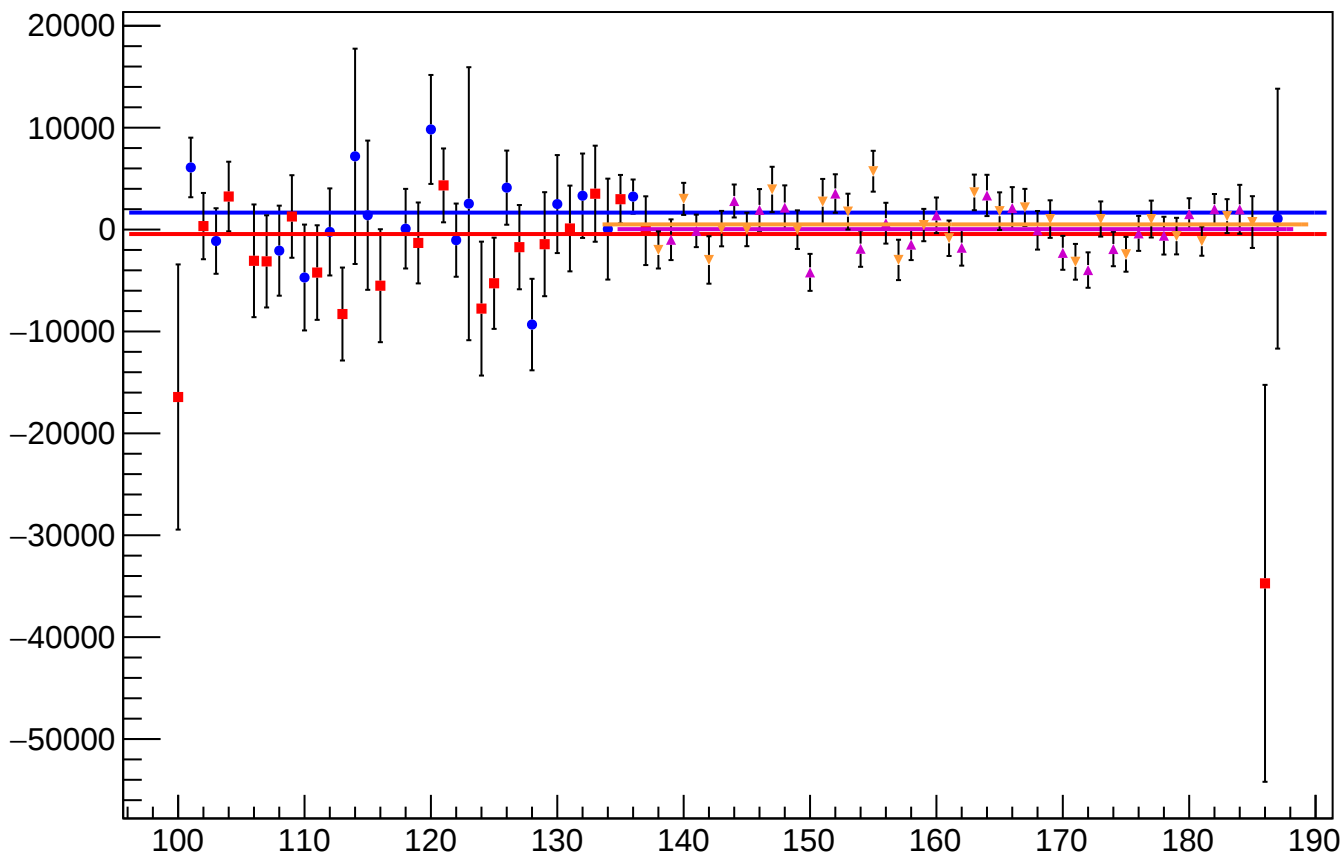
Right: 2368.518+/-0.461 χ^2/NDF : 2079402.9/37

In: 1642.825+/-0.242 χ^2/NDF : 2410773.7/40

Out: 1645.217+/-0.236 χ^2/NDF : 3264401.3/44

All: 1644.051+/-0.169 χ^2/NDF : 5675224.9/85

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1665.563 ± 914.236 χ^2/NDF : 16.4/17

Left Out: 507.982 ± 361.172 χ^2/NDF : 35.4/24

Right Out: -438.587 ± 939.273 χ^2/NDF : 18.2/19

Left In: 40.080 ± 373.261 χ^2/NDF : 33.6/22

Left: 281.730 ± 259.556 χ^2/NDF : 69.8/47

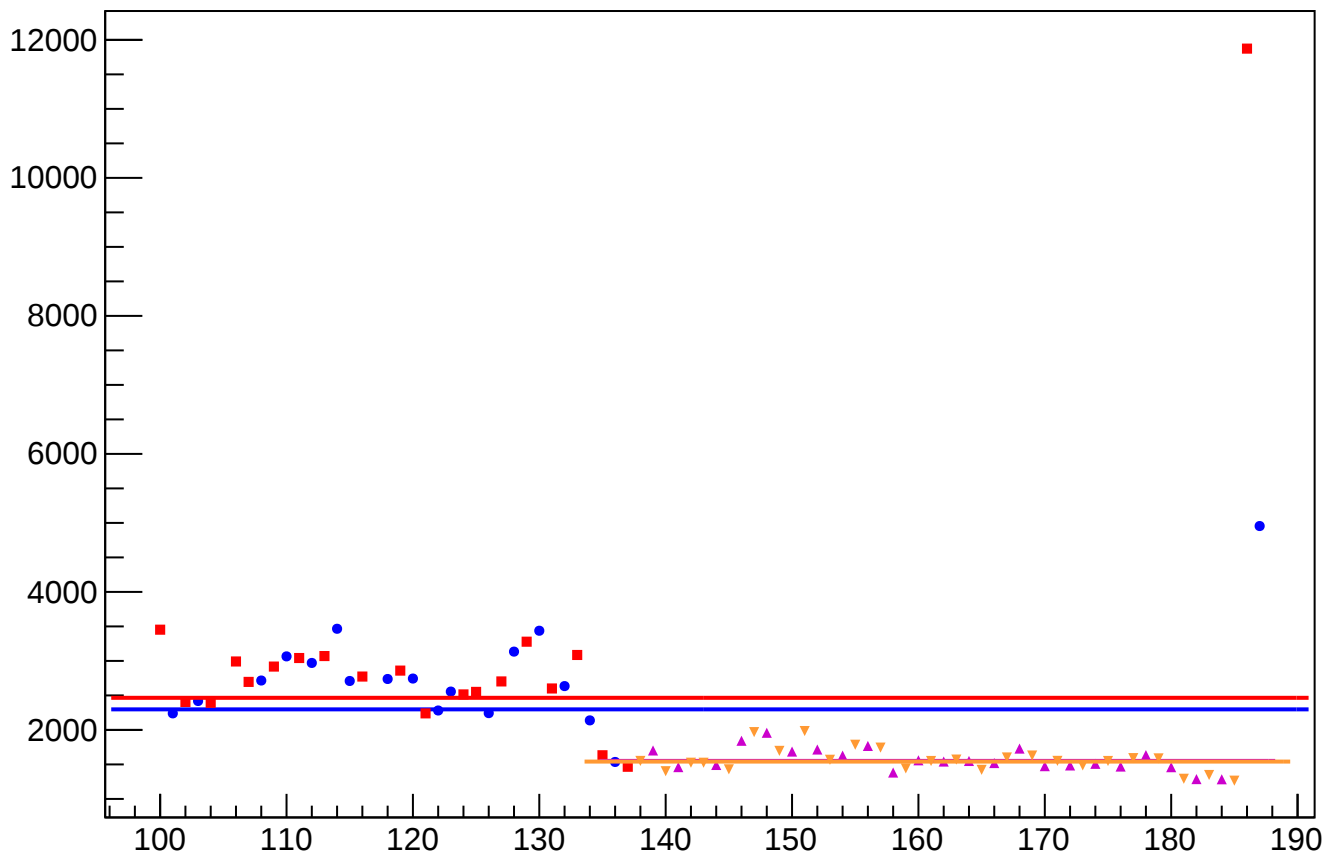
Right: 641.906 ± 655.135 χ^2/NDF : 37.2/37

In: 272.319 ± 345.569 χ^2/NDF : 52.7/40

Out: 386.052 ± 337.109 χ^2/NDF : 54.4/44

All: 330.595 ± 241.308 χ^2/NDF : 107.2/85

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: 2465.371 ± 0.664 $\chi^2/\text{NDF}: 1142558.3/19$

Left In: 1551.063 ± 0.264 $\chi^2/\text{NDF}: 338898.9/22$

Left: 1546.000 ± 0.184 $\chi^2/\text{NDF}: 721657.1/47$

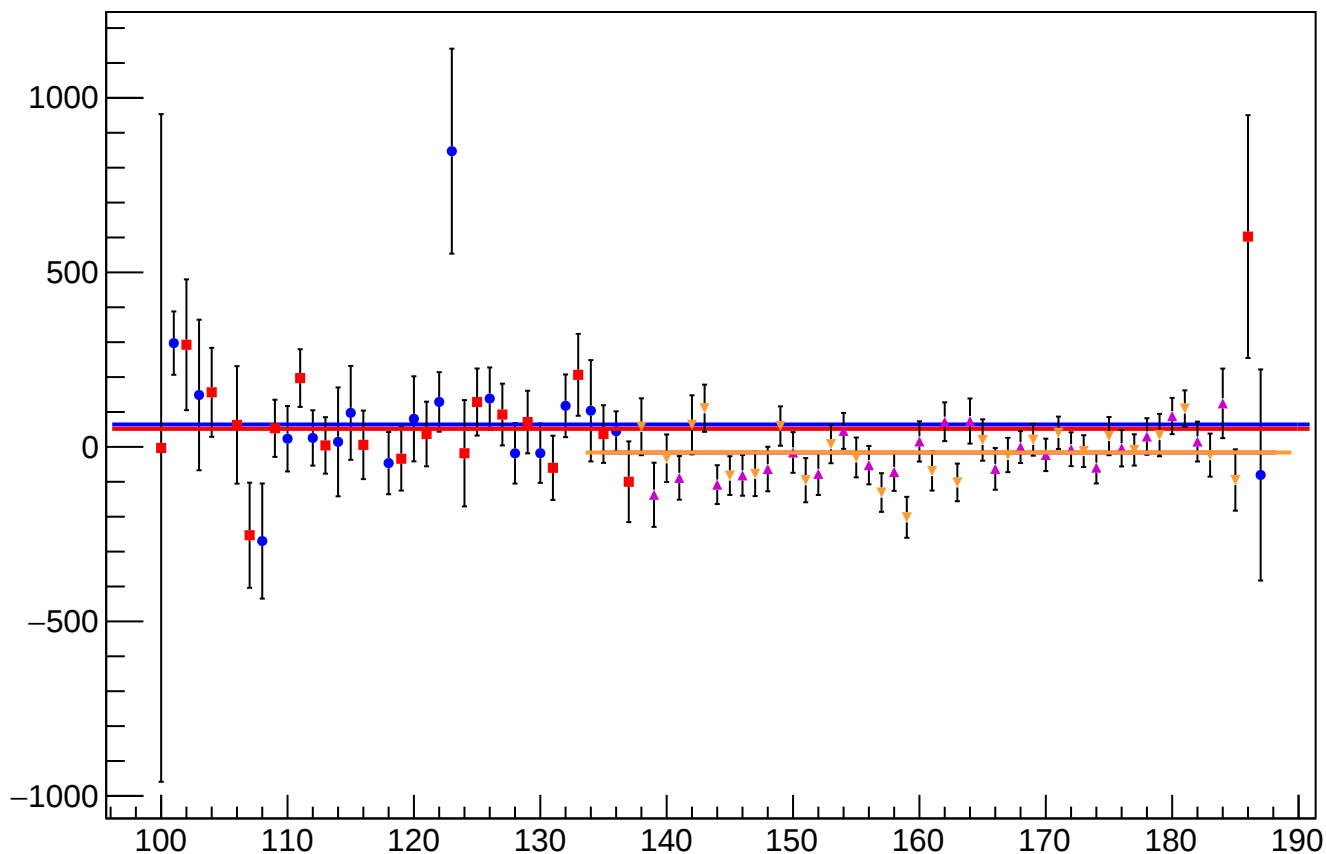
Right: 2379.379 ± 0.463 $\chi^2/\text{NDF}: 2057664.0/37$

In: 1657.768 ± 0.244 $\chi^2/\text{NDF}: 2365342.4/40$

Out: 1660.296 ± 0.238 $\chi^2/\text{NDF}: 3211188.9/44$

All: 1659.063 ± 0.171 $\chi^2/\text{NDF}: 5576586.2/85$

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: 51.591 $\pm$ 23.676 χ^2 /NDF: 19.6/19

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

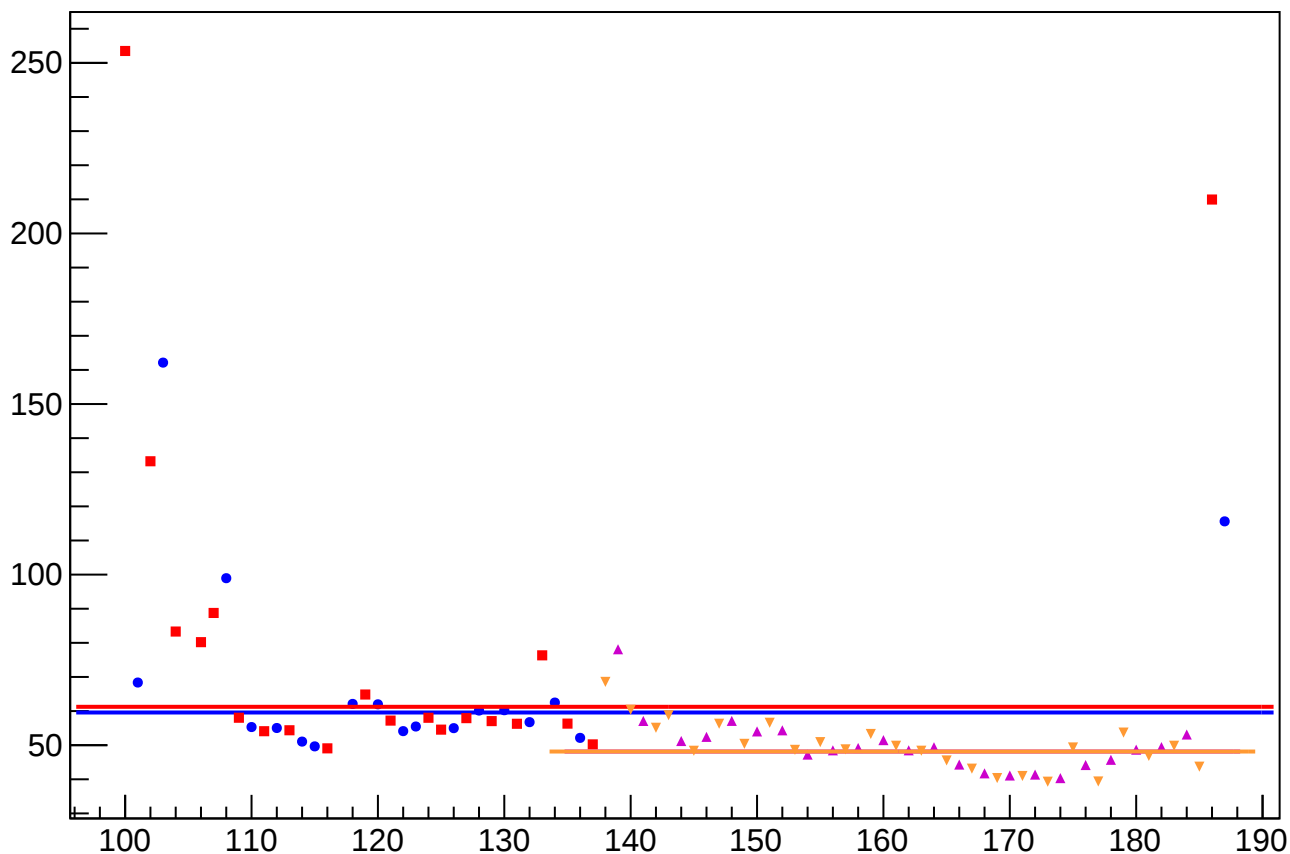
Right: 57.877 $\pm$ 16.757 χ^2 /NDF: 43.7/37

In: -0.548 $\pm$ 10.457 χ^2 /NDF:58.5/40

Out: -3.428 $\pm$ 10.227 χ^2 /NDF:65.9/44

All: -2.020 $\pm$ 7.312 χ^2 /NDF: 124.4/85

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 59.582+/-0.017 χ^2/NDF : 734359.5/17

Left Out: 48.141+/-0.008 χ^2/NDF : 655250.3/24

Right Out: 61.250+/-0.017 χ^2/NDF : 1045278.3/19

Left In: 48.139+/-0.008 χ^2/NDF : 575025.5/22

Left: 48.140+/-0.006 χ^2/NDF : 1230275.9/47

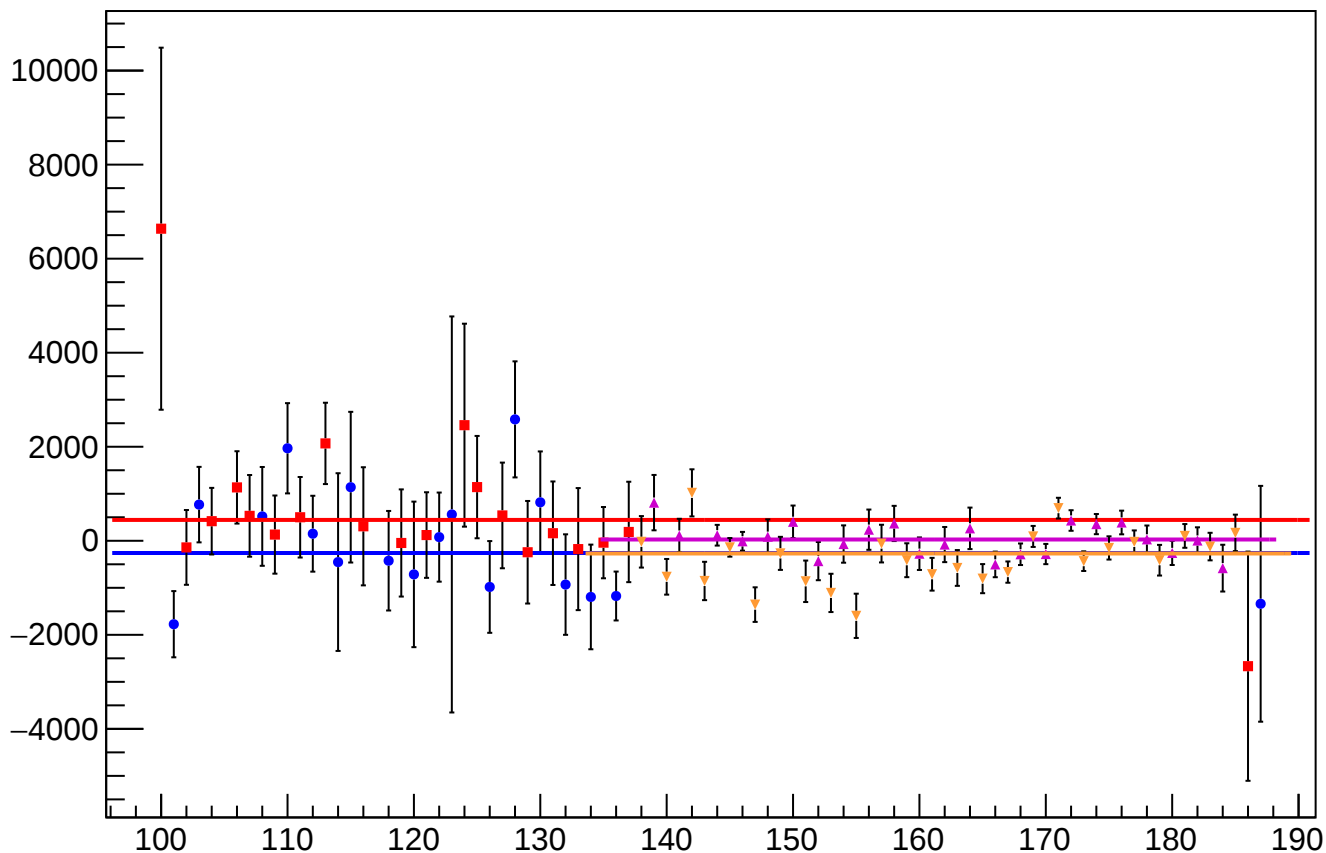
Right: 60.418+/-0.012 χ^2/NDF : 1784587.8/37

In: 50.363+/-0.007 χ^2/NDF : 1684394.0/40

Out: 50.587+/-0.007 χ^2/NDF : 2199239.9/44

All: 50.477+/-0.005 χ^2/NDF : 3884102.6/85

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: 443.706 $\pm$ 221.875 χ^2 /NDF: 12.0/19

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

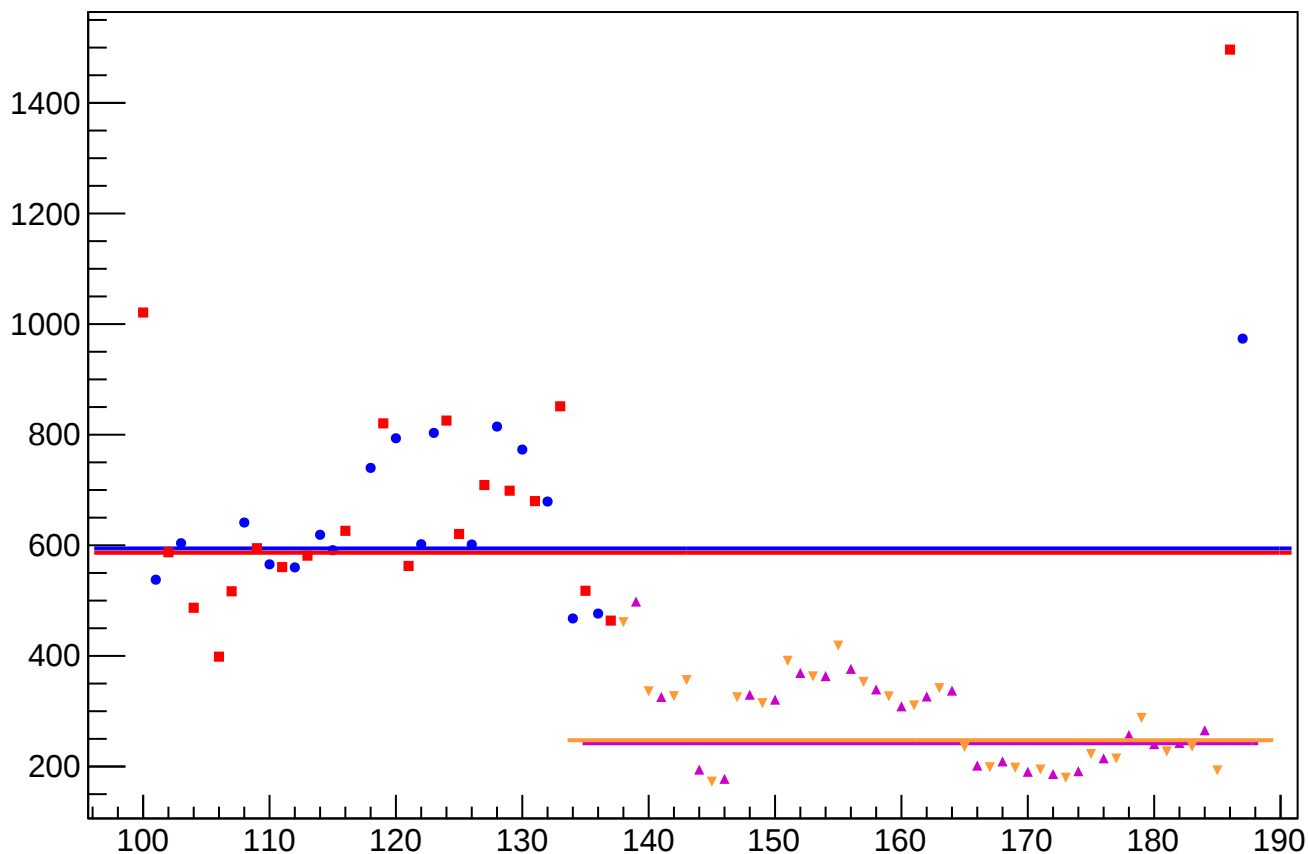
Right: 109.847 $\pm$ 160.824 χ^2 /NDF: 41.5/37

In: 9.247 $\pm$ 58.502 χ^2 /NDF:51.2/40

Out: -221.295 $\pm$ 58.079 χ^2 /NDF:91.8/44

All: -106.860 $\pm$ 41.217 χ^2 /NDF: 150.8/85

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: 586.538+/-0.157 χ^2/NDF : 777362.5/19

Left In: 242.117+/-0.043 χ^2/NDF : 2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

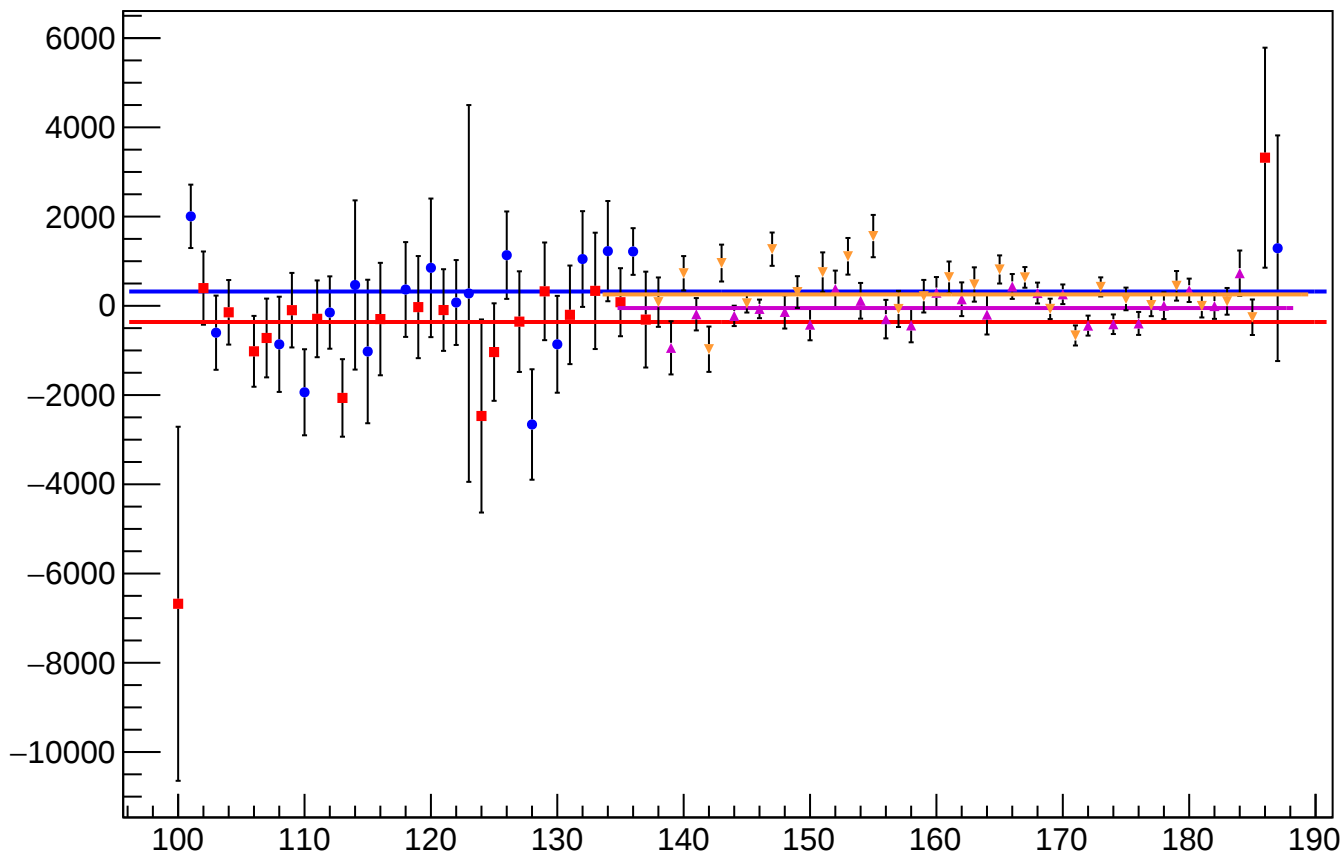
Right: 590.231+/-0.114 χ^2/NDF : 1182915.8/37

In: 264.236+/-0.041 χ^2/NDF : 7137052.4/40

Out: 270.797+/-0.041 χ^2/NDF : 7906411.9/44

All: 267.540+/-0.029 χ^2/NDF : 15056133.2/85

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: -362.500 $\pm$ 224.418 χ^2 /NDF: 13.1/19

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

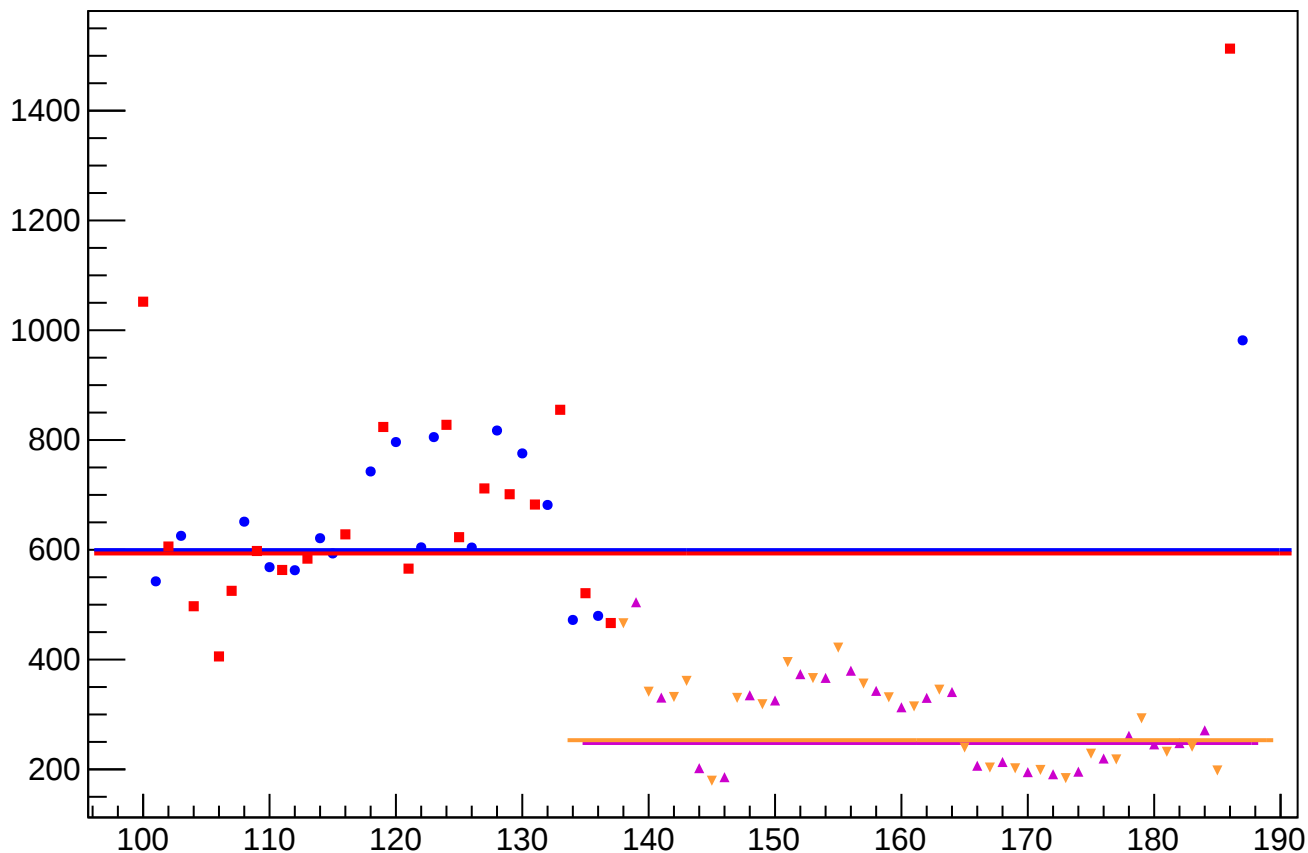
Right: -37.170 $\pm$ 162.438 χ^2 /NDF: 44.1/37

In: -25.949 $\pm$ 59.758 χ^2 /NDF:56.5/40

Out: 212.898 $\pm$ 59.240 χ^2 /NDF:83.7/44

All: 94.514 $\pm$ 42.071 χ^2 /NDF: 148.3/85

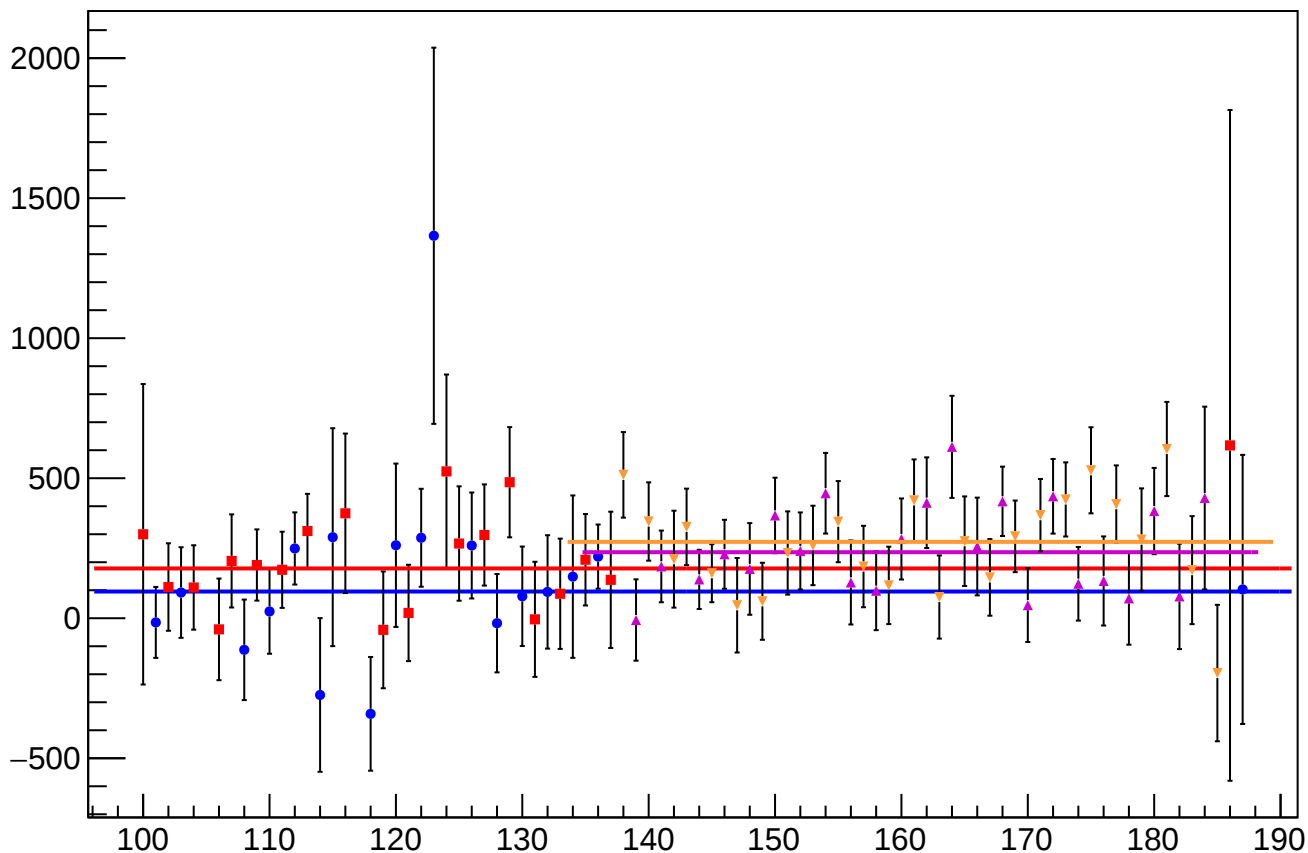
asym_sam_37_dd_rms vs Slug, Sign Corrected



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: 593.312 $\pm$ 0.159 χ^2 /NDF: 757507.0/19
 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: 596.223 $\pm$ 0.115 χ^2 /NDF: 1160233.7/37
 In: 270.707 $\pm$ 0.042 χ^2 /NDF: 6913188.1/40
 Out: 276.841 $\pm$ 0.042 χ^2 /NDF: 7698621.6/44
 All: 273.800 $\pm$ 0.030 χ^2 /NDF: 14622436.6/85

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 95.377+/-43.221 χ^2/NDF : 17.9/17

Left Out: 272.684+/-29.221 χ^2/NDF : 27.4/24

Right Out: 177.789+/-41.157 χ^2/NDF : 10.6/19

Left In: 235.801+/-30.232 χ^2/NDF : 24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

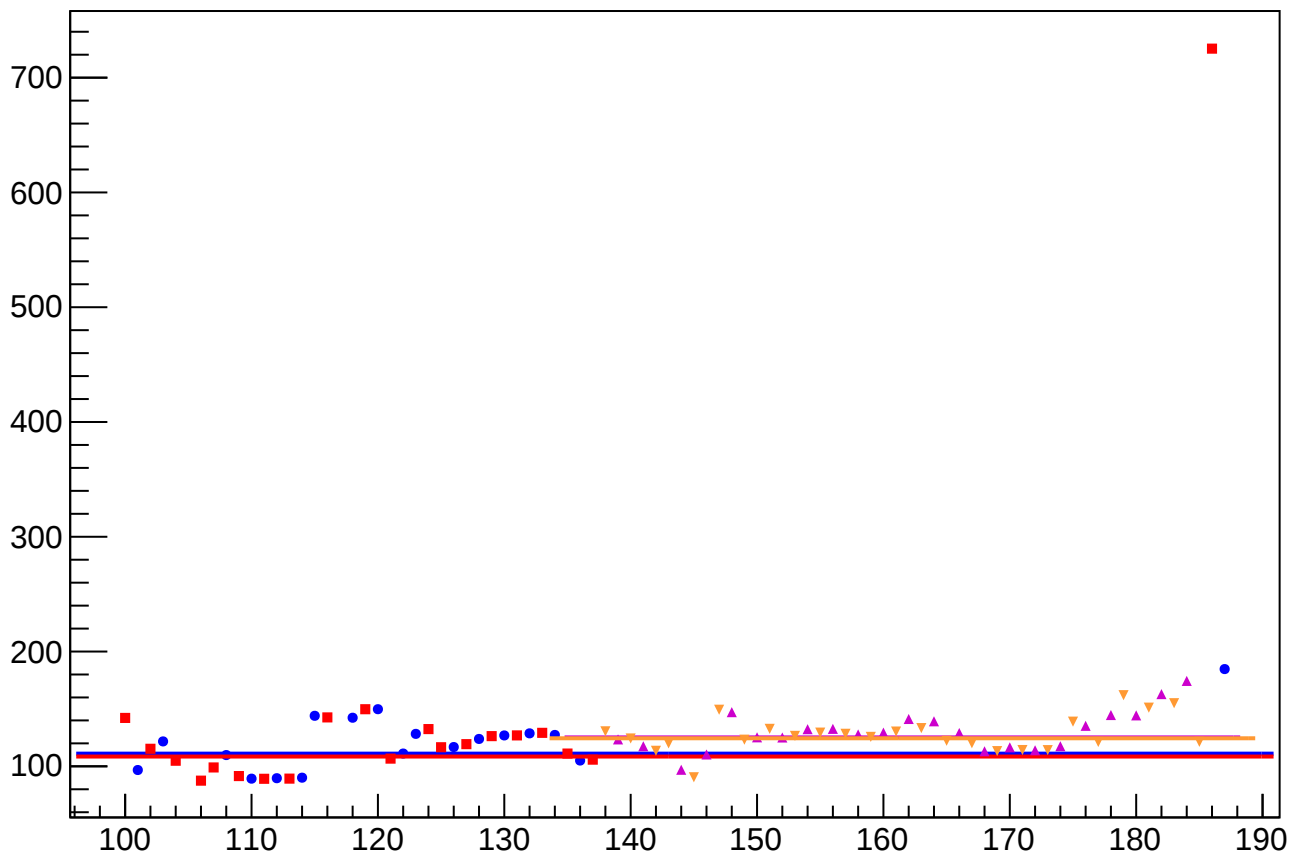
Right: 138.597+/-29.805 χ^2/NDF : 30.5/37

In: 189.668+/-24.773 χ^2/NDF : 49.6/40

Out: 240.880+/-23.827 χ^2/NDF : 41.6/44

All: 216.271+/-17.173 χ^2/NDF : 93.5/85

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: 108.516 $\pm$ 0.029 χ^2 /NDF: 877166.0/19

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

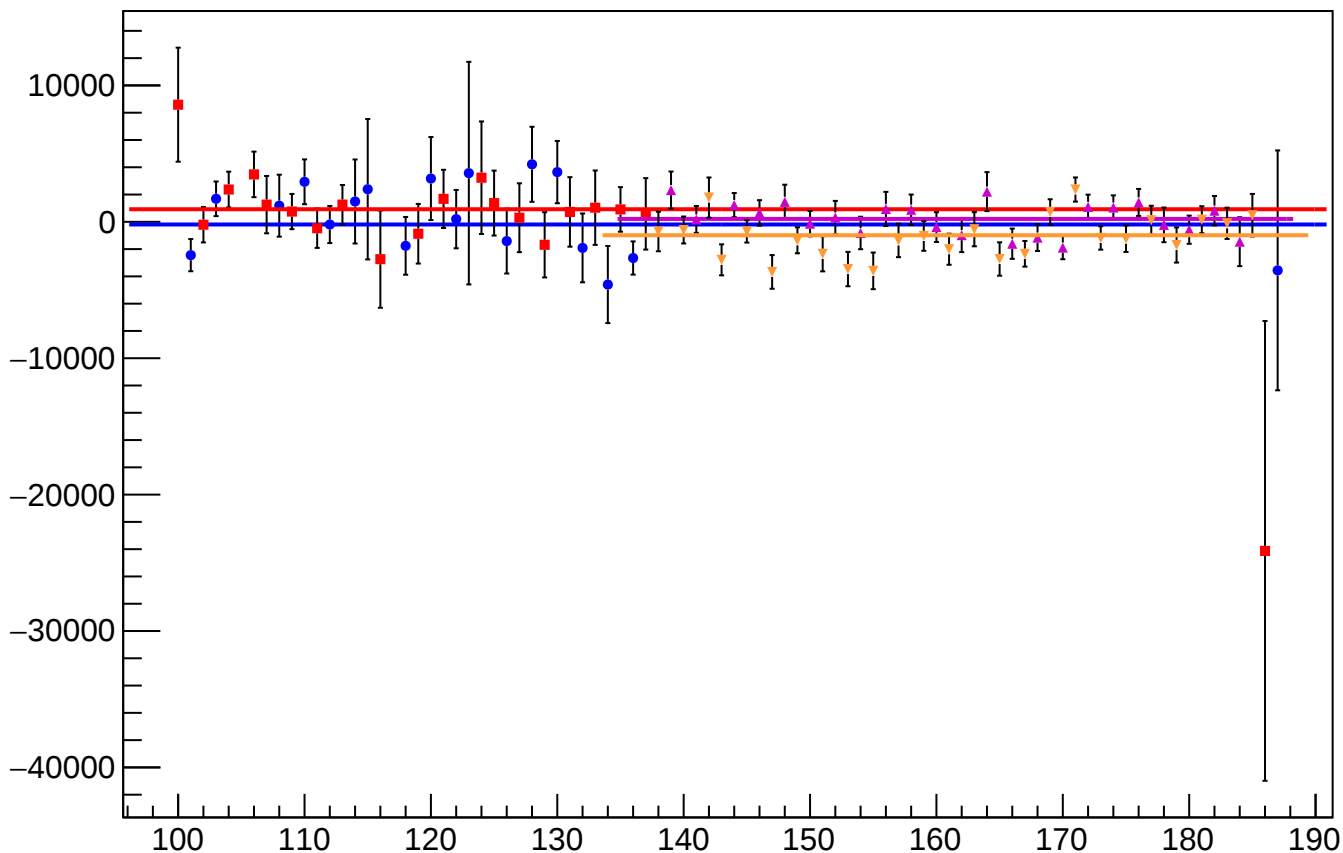
Right: 109.717 $\pm$ 0.021 χ^2 /NDF: 1224193.6/37

In: 120.552 $\pm$ 0.018 χ^2 /NDF: 989077.1/40

Out: 119.096 $\pm$ 0.017 χ^2 /NDF: 1615667.5/44

All: 119.795 $\pm$ 0.012 χ^2 /NDF: 2608333.3/85

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -196.211 ± 465.097 $\chi^2/\text{NDF}: 25.2/17$

Left Out: -982.839 ± 218.021 $\chi^2/\text{NDF}: 47.2/24$

Right Out: 923.024 ± 435.665 $\chi^2/\text{NDF}: 14.4/19$

Left In: 211.420 ± 223.296 $\chi^2/\text{NDF}: 25.7/22$

Left: -399.983 ± 155.996 $\chi^2/\text{NDF}: 87.5/47$

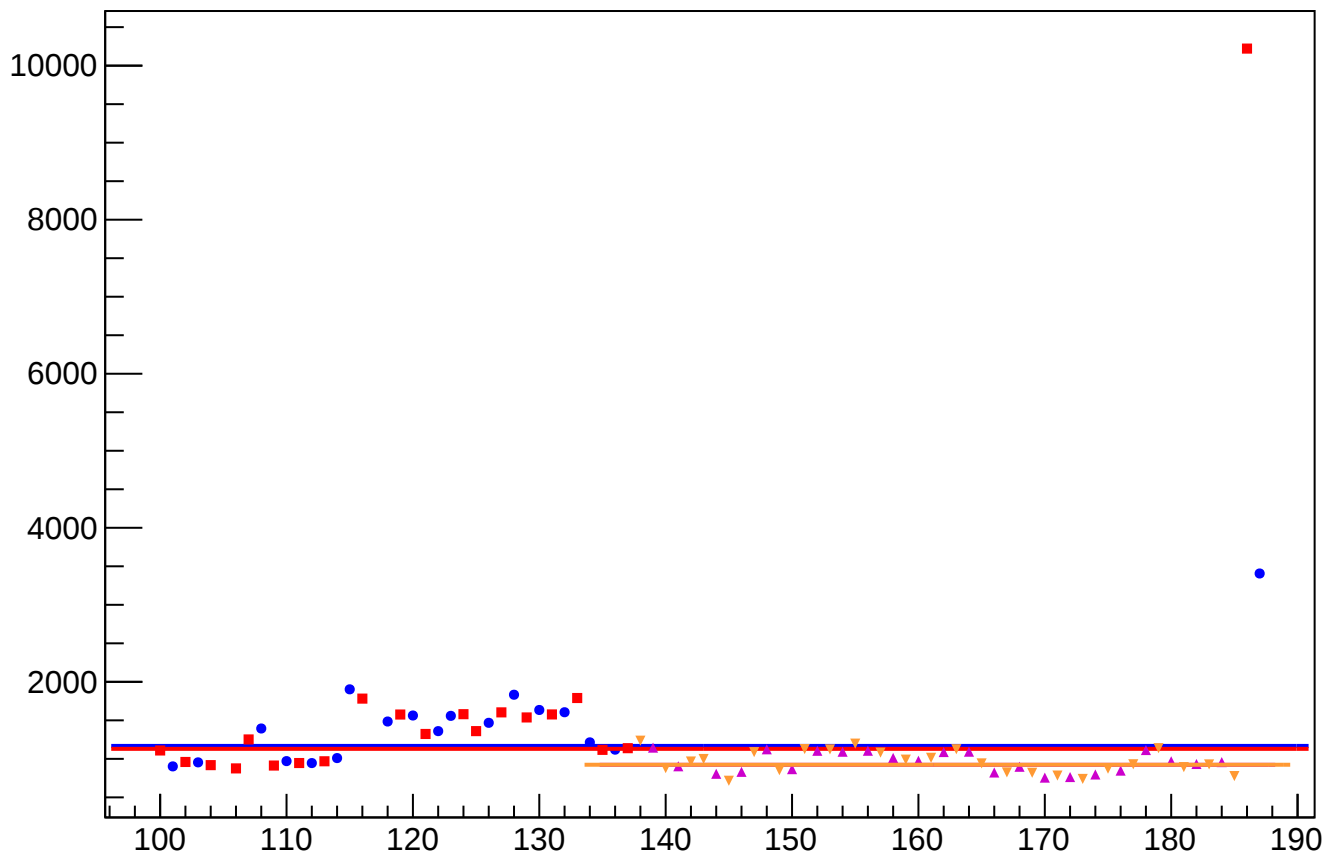
Right: 399.938 ± 317.958 $\chi^2/\text{NDF}: 42.7/37$

In: 135.061 ± 201.298 $\chi^2/\text{NDF}: 51.5/40$

Out: -601.138 ± 194.970 $\chi^2/\text{NDF}: 76.9/44$

All: -244.792 ± 140.049 $\chi^2/\text{NDF}: 135.3/85$

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: 1130.054+/-0.308 χ^2/NDF : 1351924.1/19

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

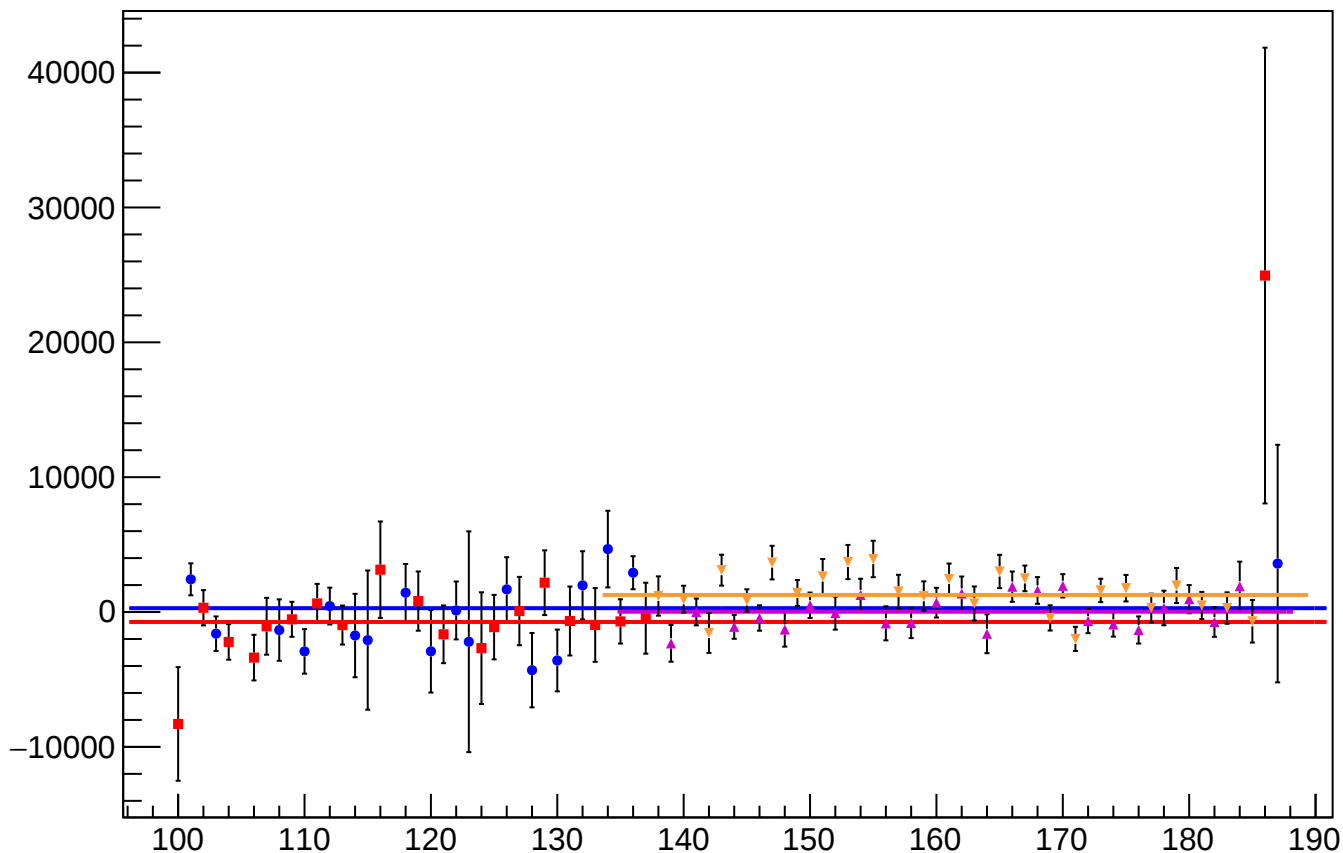
Right: 1147.813+/-0.225 χ^2/NDF : 2190228.6/37

In: 968.291+/-0.142 χ^2/NDF : 1919904.1/40

Out: 964.937+/-0.138 χ^2/NDF : 2553908.3/44

All: 966.560+/-0.099 χ^2/NDF : 4474098.8/85

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 287.210+/-467.377 χ^2/NDF : 25.4/17

Left Out: 1267.344+/-220.133 χ^2/NDF :44.9/24

Right Out: -735.254+/-438.045 χ^2/NDF : 14.5/19

Left In: 23.478+/-225.490 χ^2/NDF :27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

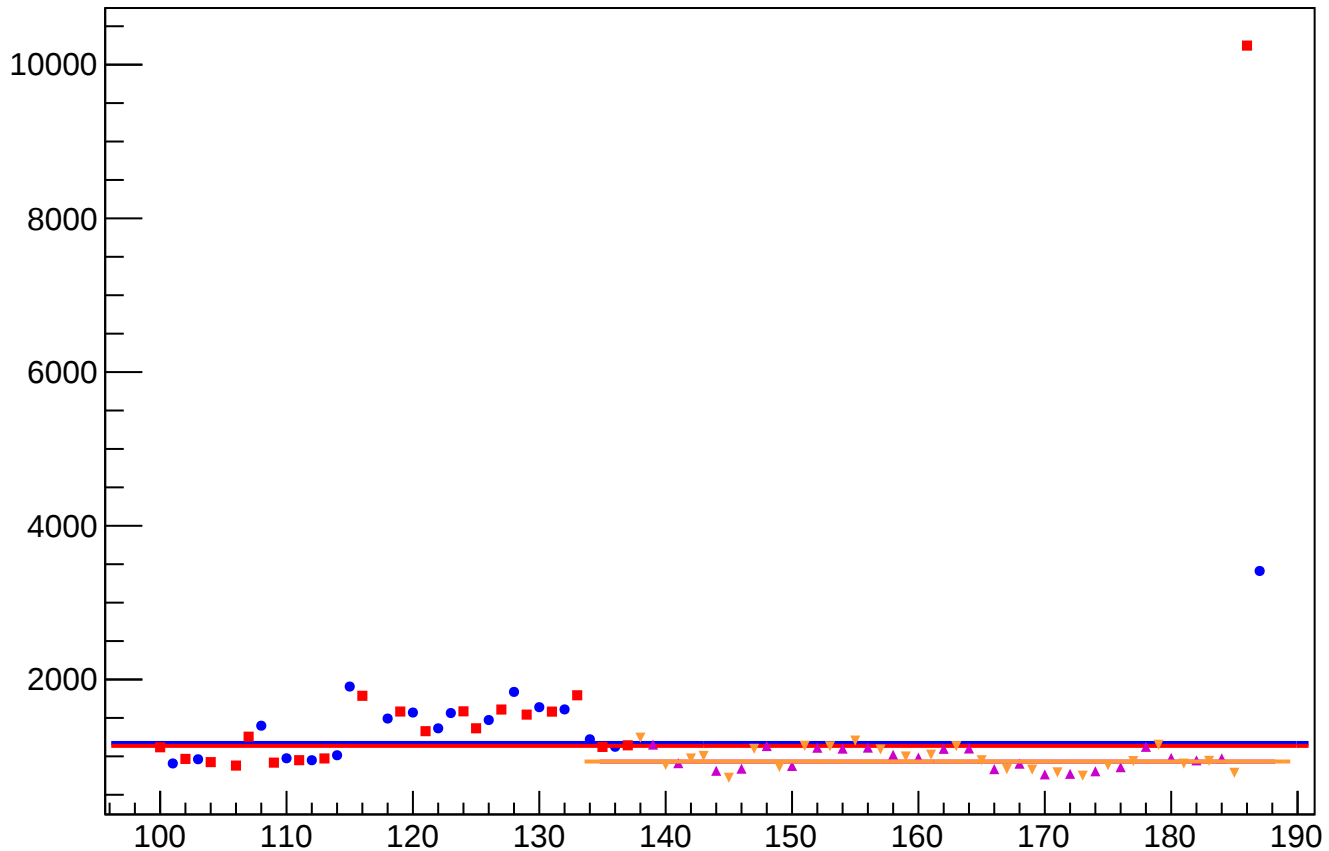
Right: -257.111+/-319.612 χ^2/NDF : 42.5/37

In: 73.275+/-203.089 χ^2/NDF :52.8/40

Out: 863.573+/-196.693 χ^2/NDF :76.2/44

All: 481.065+/-141.290 χ^2/NDF : 136.8/85

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1174.105 $\pm$ 0.330 χ^2 /NDF: 825198.8/17

Left Out: 932.764 $\pm$ 0.156 χ^2 /NDF: 829798.4/24

Right Out: 1136.173 $\pm$ 0.310 χ^2 /NDF: 1345259.4/19

Left In: 931.493 $\pm$ 0.159 χ^2 /NDF: 624436.4/22

Left: 932.144 $\pm$ 0.111 χ^2 /NDF: 1454267.3/47

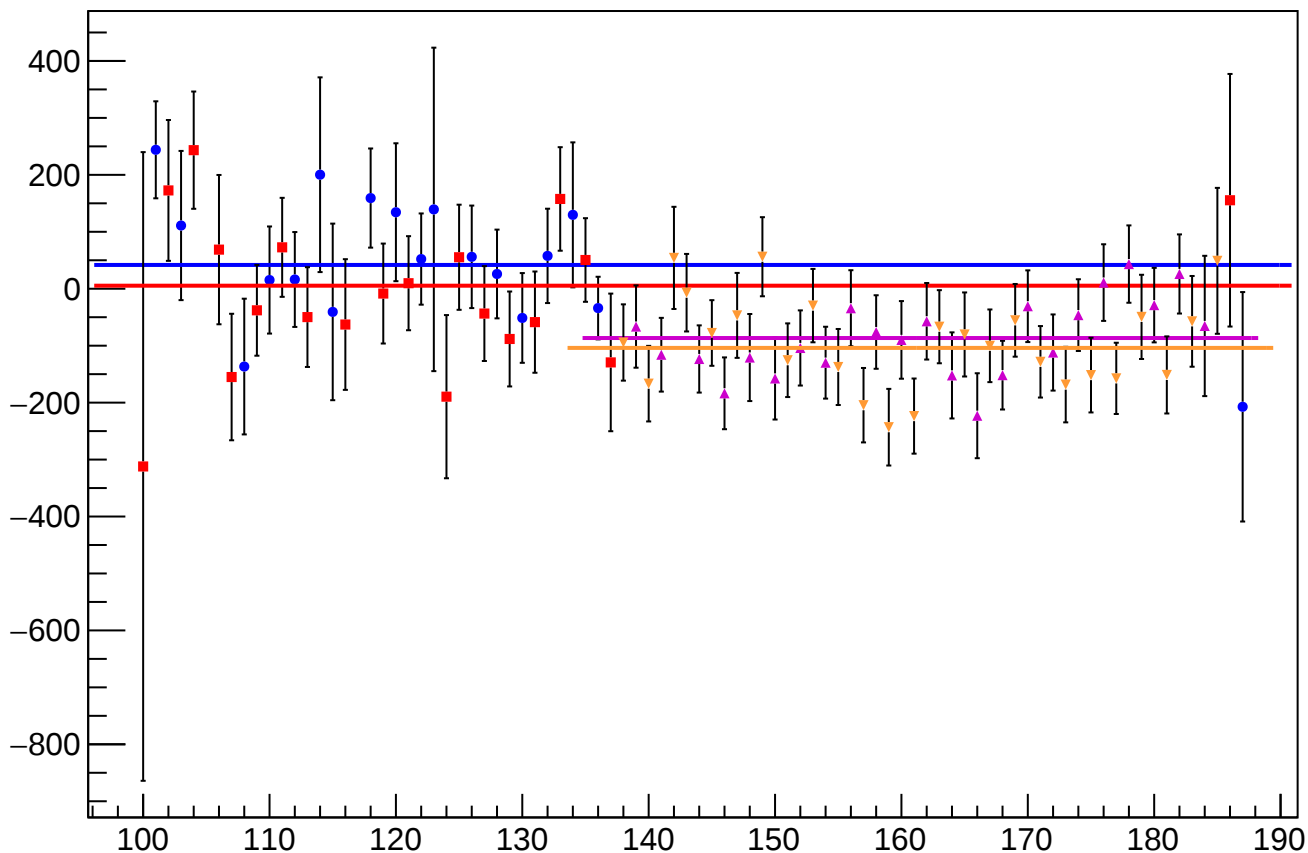
Right: 1153.911 $\pm$ 0.226 χ^2 /NDF: 2177471.4/37

In: 977.302 $\pm$ 0.144 χ^2 /NDF: 1886794.6/40

Out: 973.776 $\pm$ 0.139 χ^2 /NDF: 2519359.8/44

All: 975.482 $\pm$ 0.100 χ^2 /NDF: 4406465.4/85

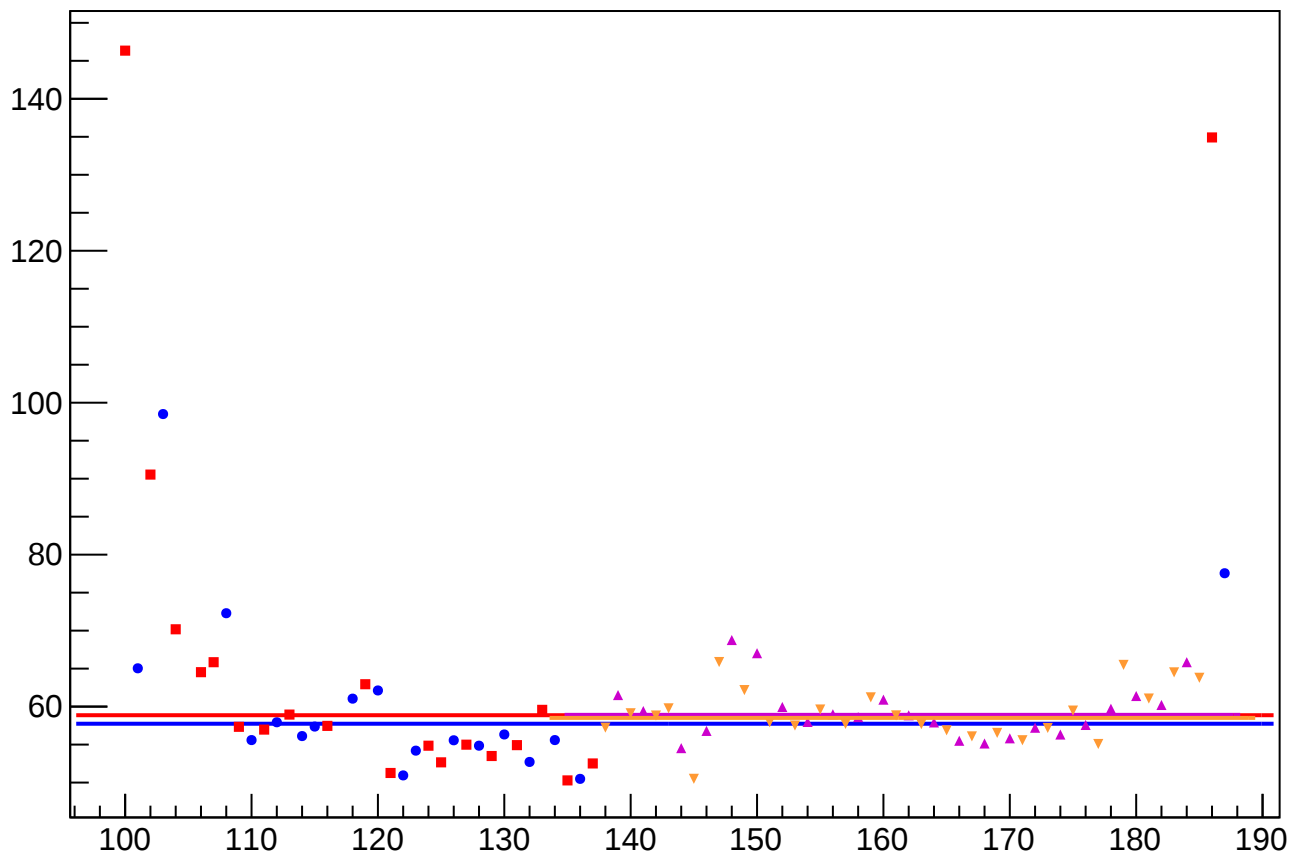
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



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: 5.352 ± 22.083 $\chi^2/\text{NDF}: 20.6/19$
 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: 23.247 ± 15.751 $\chi^2/\text{NDF}: 39.4/37$
 In: -50.223 ± 11.956 $\chi^2/\text{NDF}: 62.2/40$
 Out: -73.721 ± 11.606 $\chi^2/\text{NDF}: 68.3/44$
 All: -62.321 ± 8.328 $\chi^2/\text{NDF}: 132.5/85$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 57.745+/-0.016 χ^2/NDF : 326276.6/17

Left Out: 58.513+/-0.010 χ^2/NDF : 123221.6/24

Right Out: 58.866+/-0.016 χ^2/NDF : 535709.5/19

Left In: 58.913+/-0.010 χ^2/NDF : 109968.0/22

Left: 58.706+/-0.007 χ^2/NDF : 234021.7/47

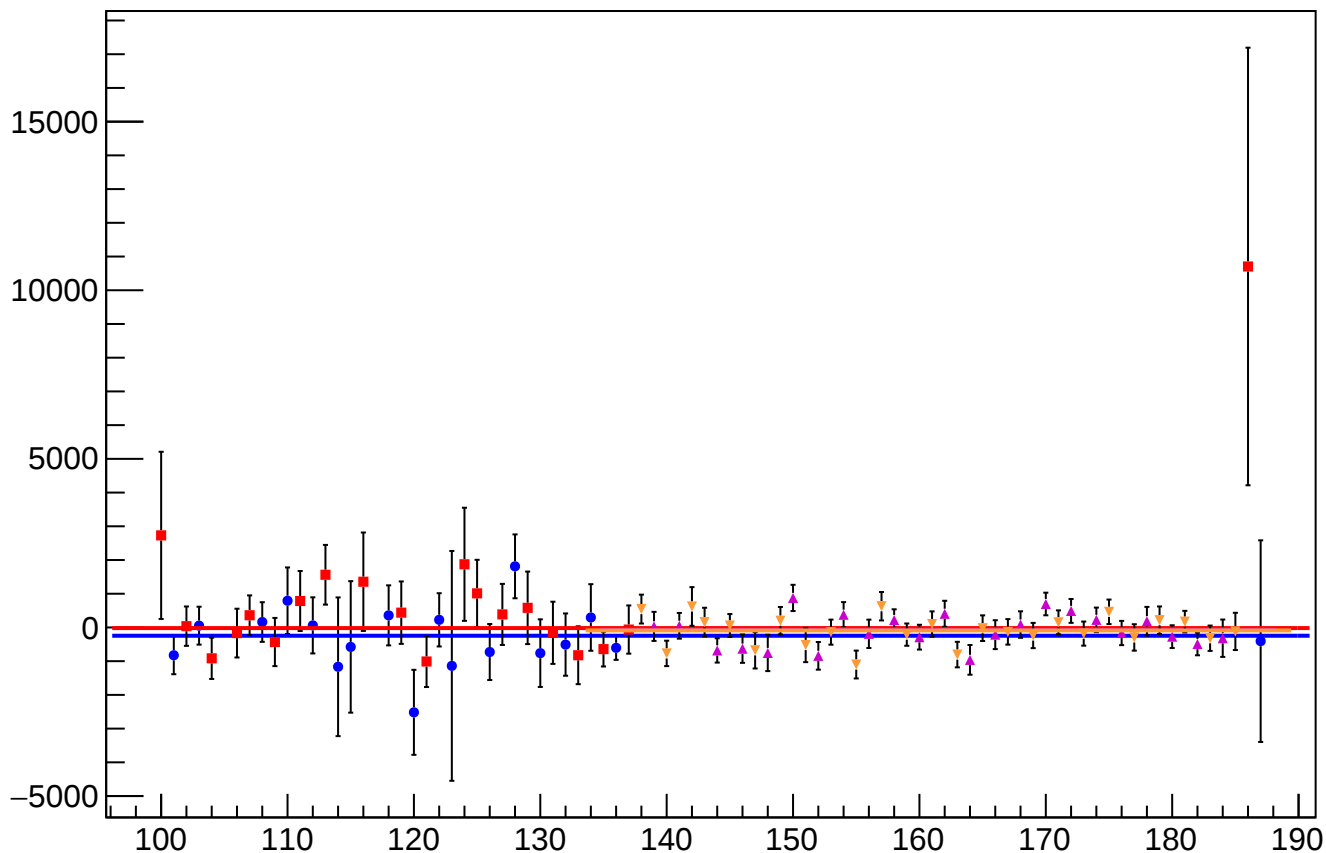
Right: 58.315+/-0.011 χ^2/NDF : 864520.7/37

In: 58.583+/-0.008 χ^2/NDF : 440123.2/40

Out: 58.611+/-0.008 χ^2/NDF : 659301.7/44

All: 58.597+/-0.006 χ^2/NDF : 1099430.5/85

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -245.737 ± 184.060 χ^2/NDF : 14.1/17

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: -18.679 ± 182.077 χ^2/NDF : 19.0/19

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

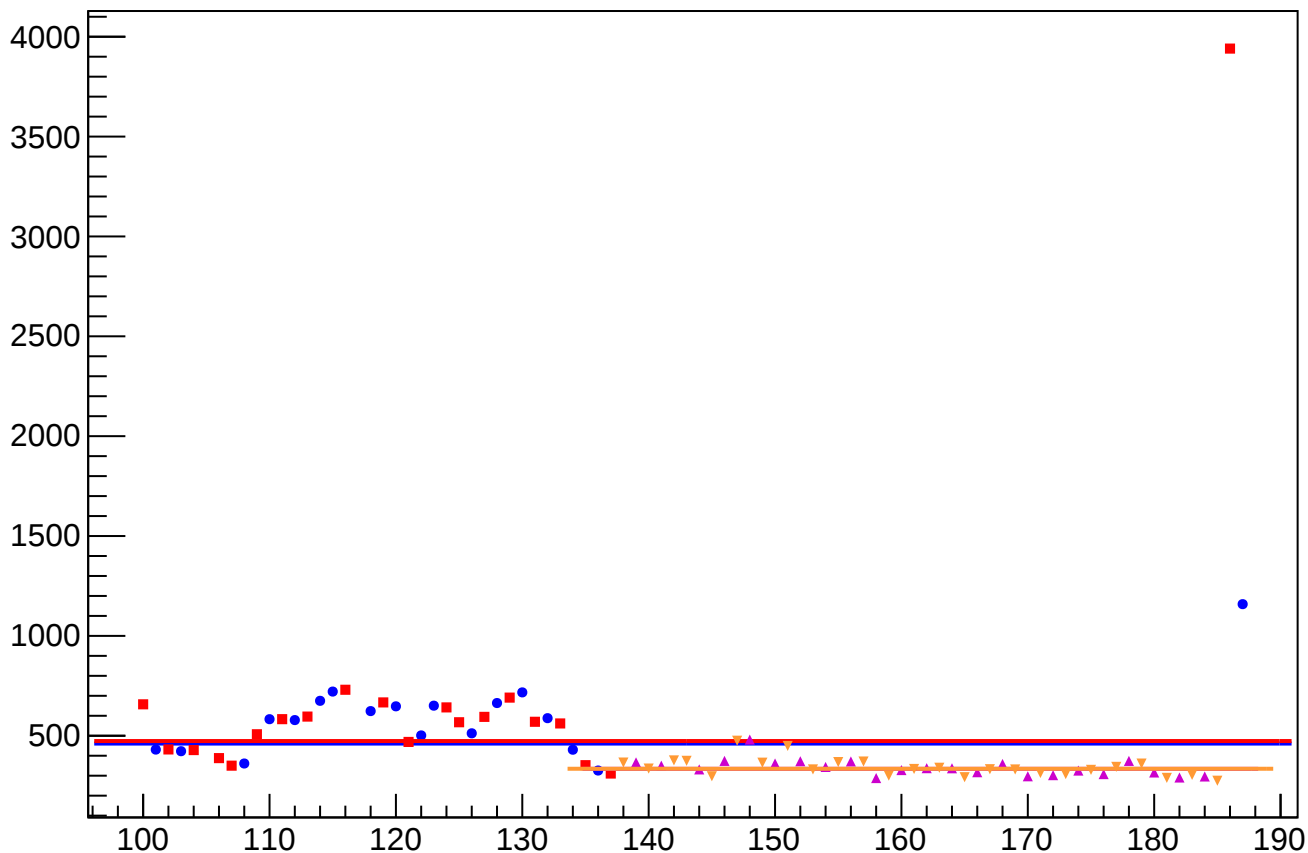
Right: -130.979 ± 129.443 χ^2/NDF : 33.9/37

In: -80.405 ± 73.791 χ^2/NDF : 50.4/40

Out: -76.665 ± 72.129 χ^2/NDF : 46.8/44

All: -78.492 ± 51.581 χ^2/NDF : 97.3/85

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: 473.483+/-0.129 χ^2/NDF : 1353395.7/19

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

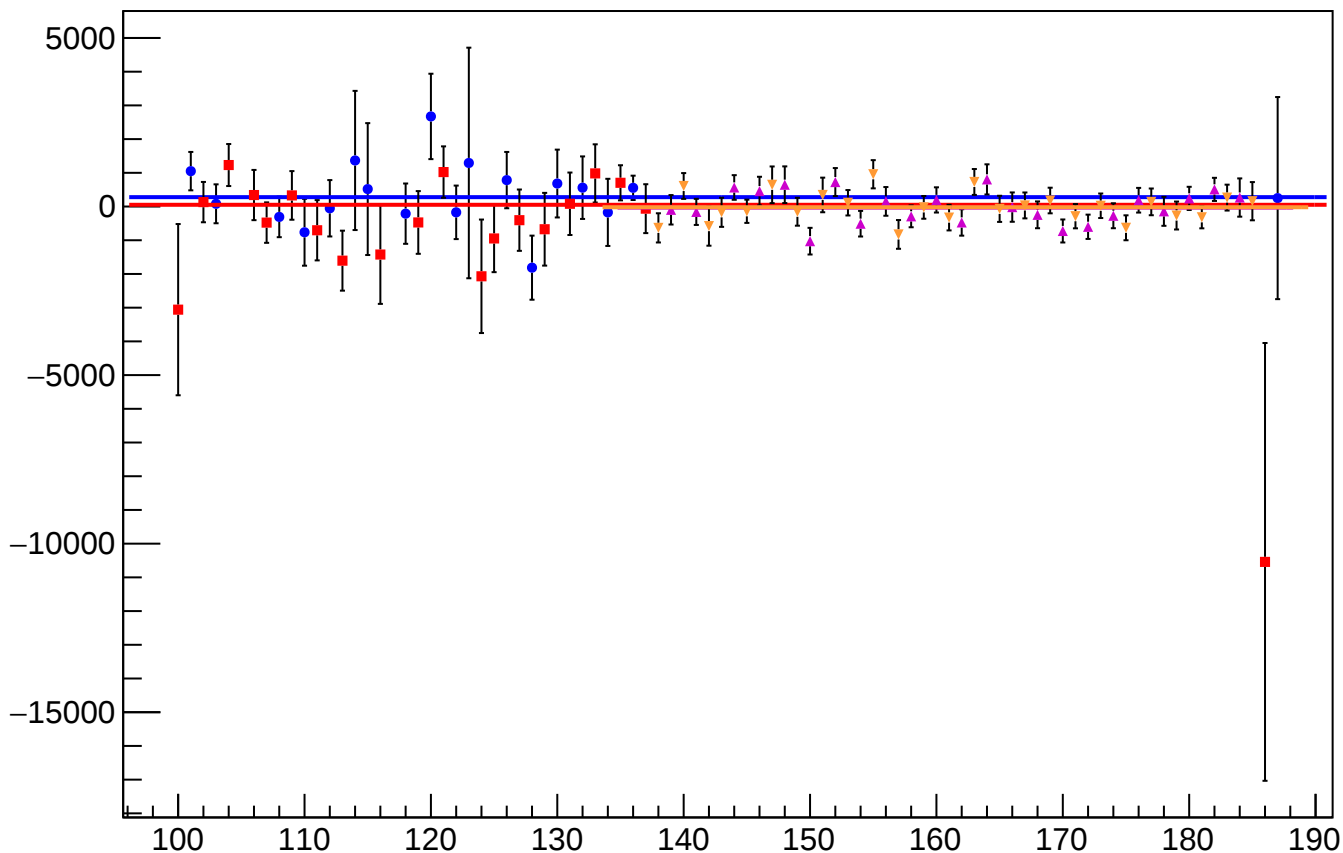
Right: 467.253+/-0.092 χ^2/NDF : 2346841.6/37

In: 354.517+/-0.052 χ^2/NDF : 2181780.9/40

Out: 356.521+/-0.051 χ^2/NDF : 2823686.8/44

All: 355.542+/-0.036 χ^2/NDF : 5006221.6/85

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: 51.760 $\pm$ 184.323 χ^2 /NDF: 22.0/19

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

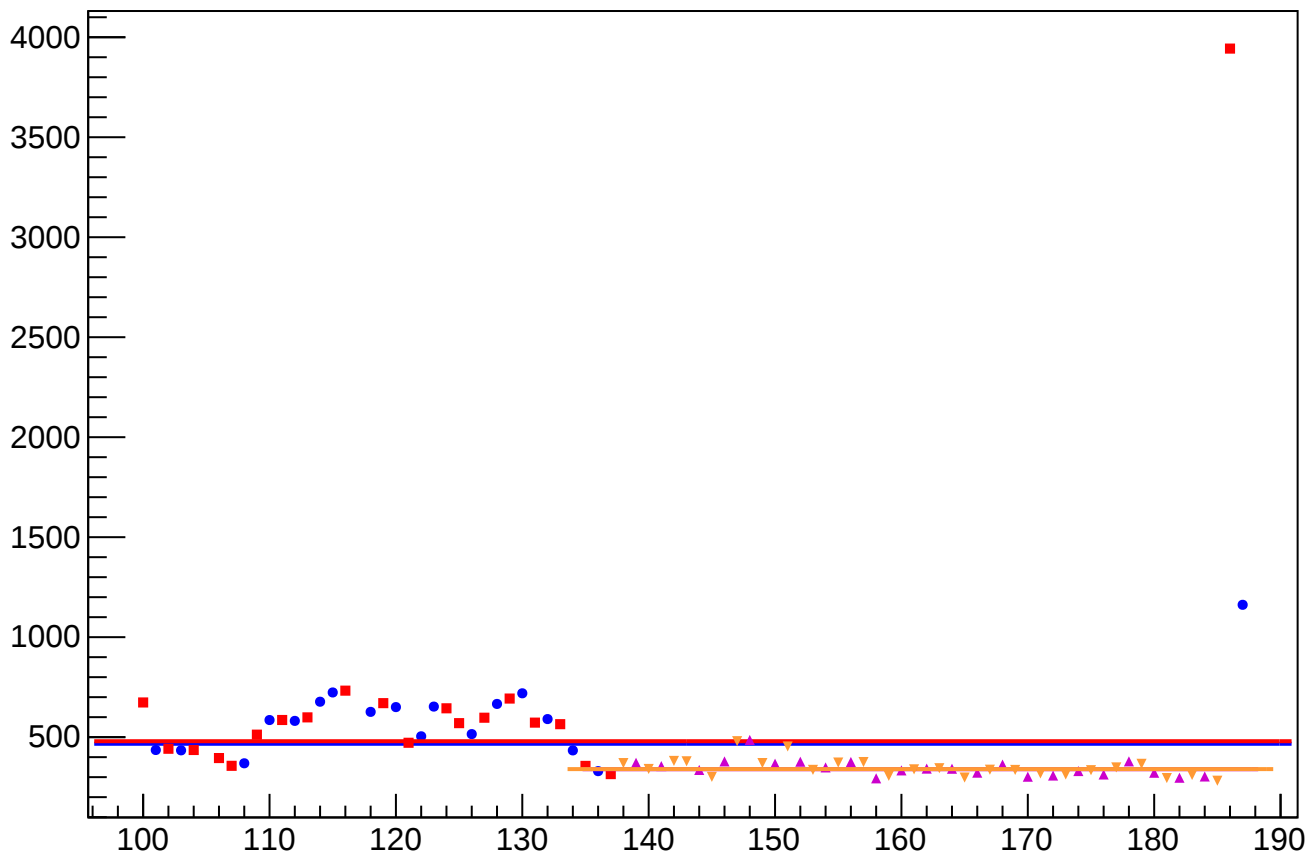
Right: 163.938 $\pm$ 131.004 χ^2 /NDF: 37.8/37

In: 18.418 $\pm$ 74.924 χ^2 /NDF:51.4/40

Out: -9.424 $\pm$ 73.241 χ^2 /NDF:49.4/44

All: 4.181 $\pm$ 52.374 χ^2 /NDF: 100.8/85

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 466.949 $\pm$ 0.132 χ^2/NDF : 955849.4/17

Left Out: 340.238 $\pm$ 0.056 χ^2/NDF : 468863.6/24

Right Out: 479.719 $\pm$ 0.130 χ^2/NDF : 1322197.9/19

Left In: 339.621 $\pm$ 0.058 χ^2/NDF : 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2/NDF : 848729.8/47

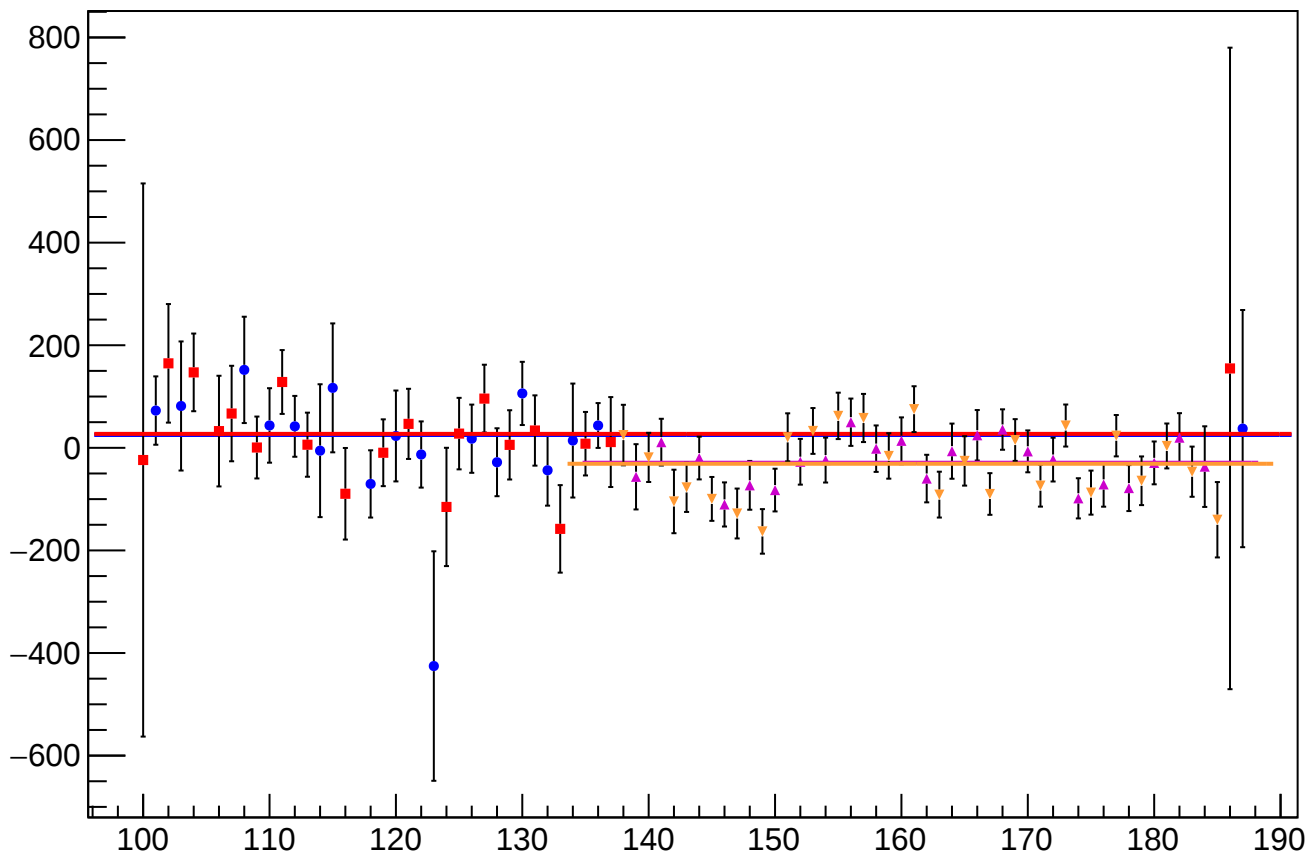
Right: 473.400 $\pm$ 0.093 χ^2/NDF : 2282797.2/37

In: 360.231 $\pm$ 0.053 χ^2/NDF : 2119290.0/40

Out: 362.260 $\pm$ 0.052 χ^2/NDF : 2755492.4/44

All: 361.269 $\pm$ 0.037 χ^2/NDF : 4875532.1/85

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 25.049+/-17.818 χ^2/NDF : 13.0/17

Left Out: -31.063+/-9.170 χ^2/NDF : 52.6/24

Right Out: 27.196+/-17.429 χ^2/NDF : 16.8/19

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

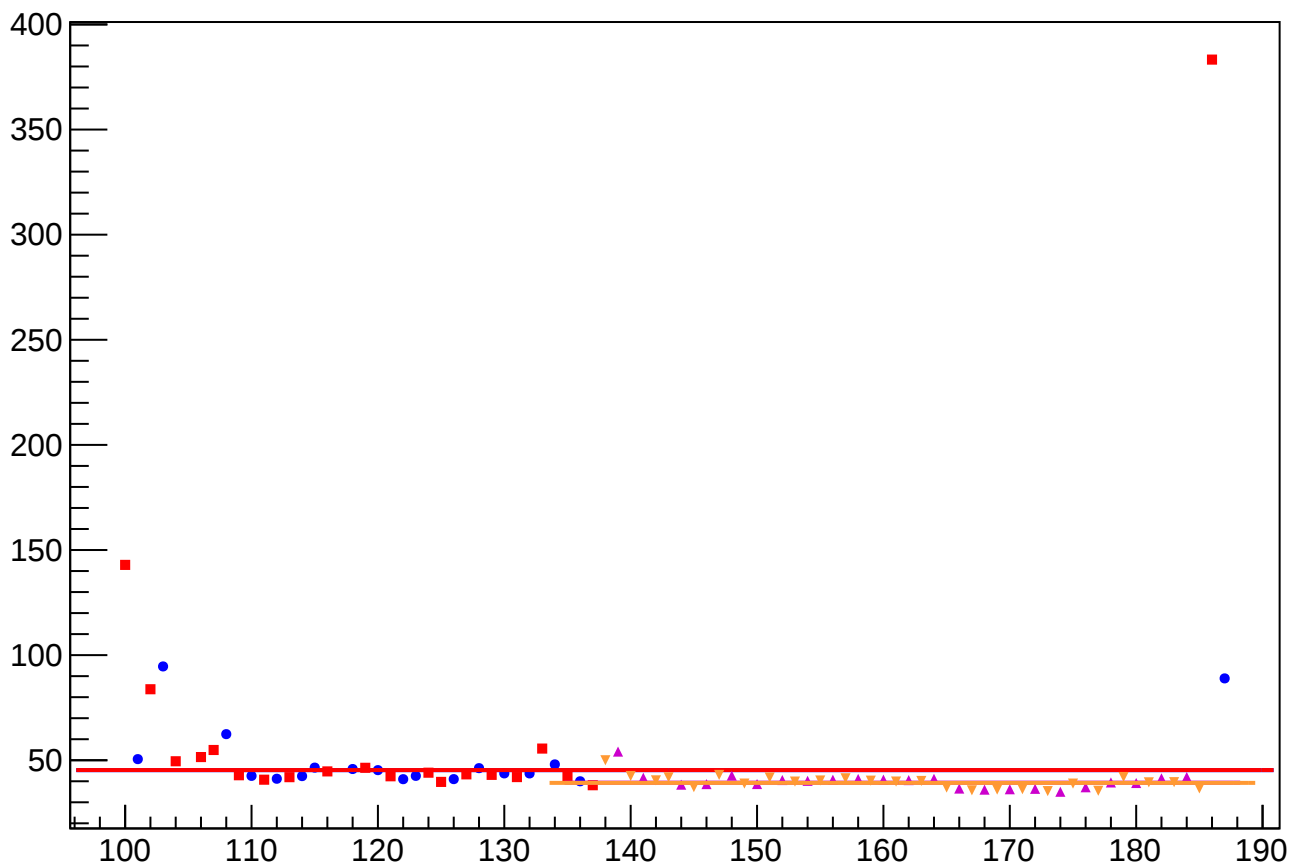
Right: 26.146+/-12.460 χ^2/NDF : 29.8/37

In: -17.179+/-8.348 χ^2/NDF : 42.7/40

Out: -18.433+/-8.115 χ^2/NDF : 78.1/44

All: -17.824+/-5.819 χ^2/NDF : 120.8/85

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: 45.333+/-0.012 χ^2/NDF : 998286.8/19

Left In: 39.338+/-0.007 χ^2/NDF : 215671.3/22

Left: 39.285+/-0.005 χ^2/NDF : 417755.0/47

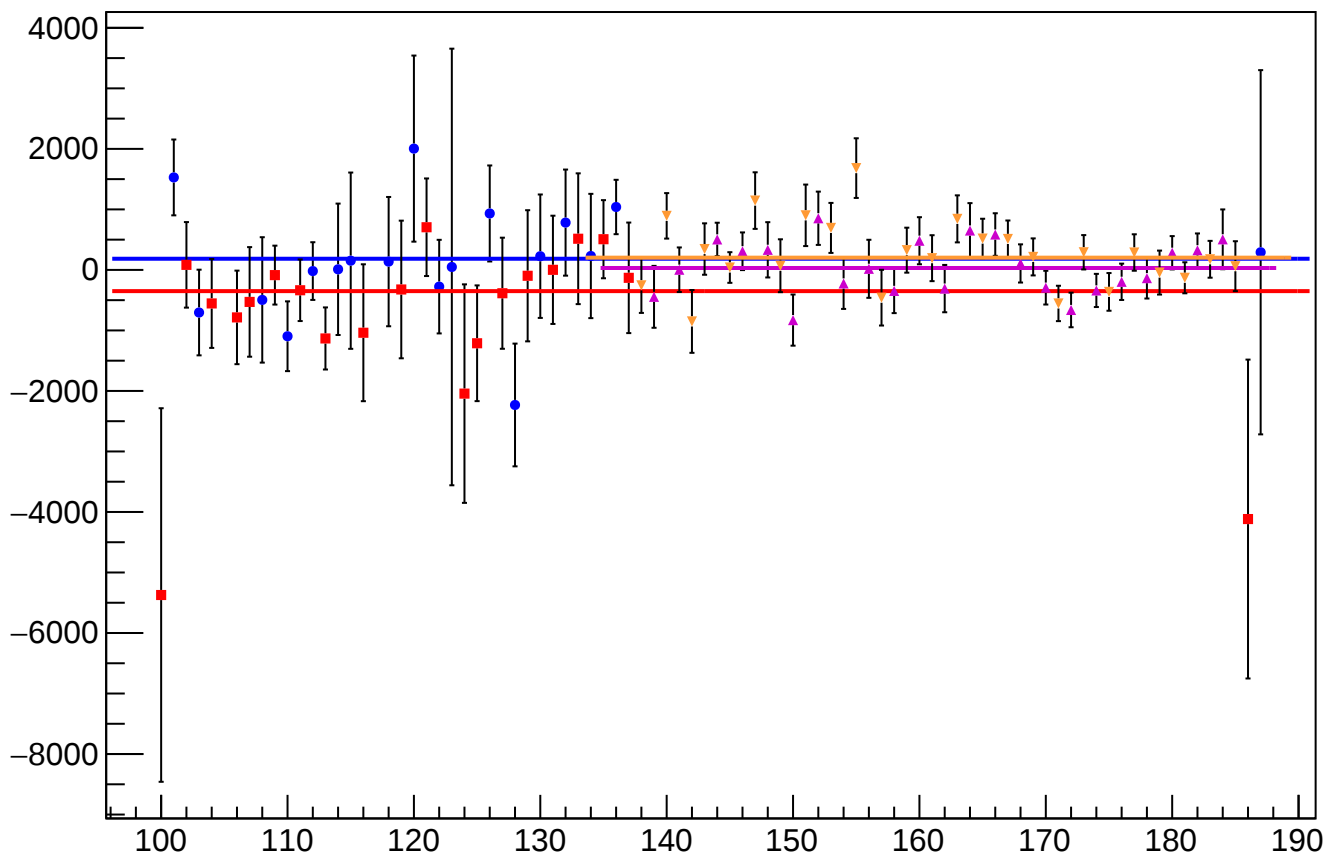
Right: 45.302+/-0.009 χ^2/NDF : 1508308.8/37

In: 40.640+/-0.006 χ^2/NDF : 898701.6/40

Out: 40.557+/-0.006 χ^2/NDF : 1391985.4/44

All: 40.598+/-0.004 χ^2/NDF : 2290789.9/85

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: -350.563 $\pm$ 179.275 χ^2 /NDF: 14.6/19

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

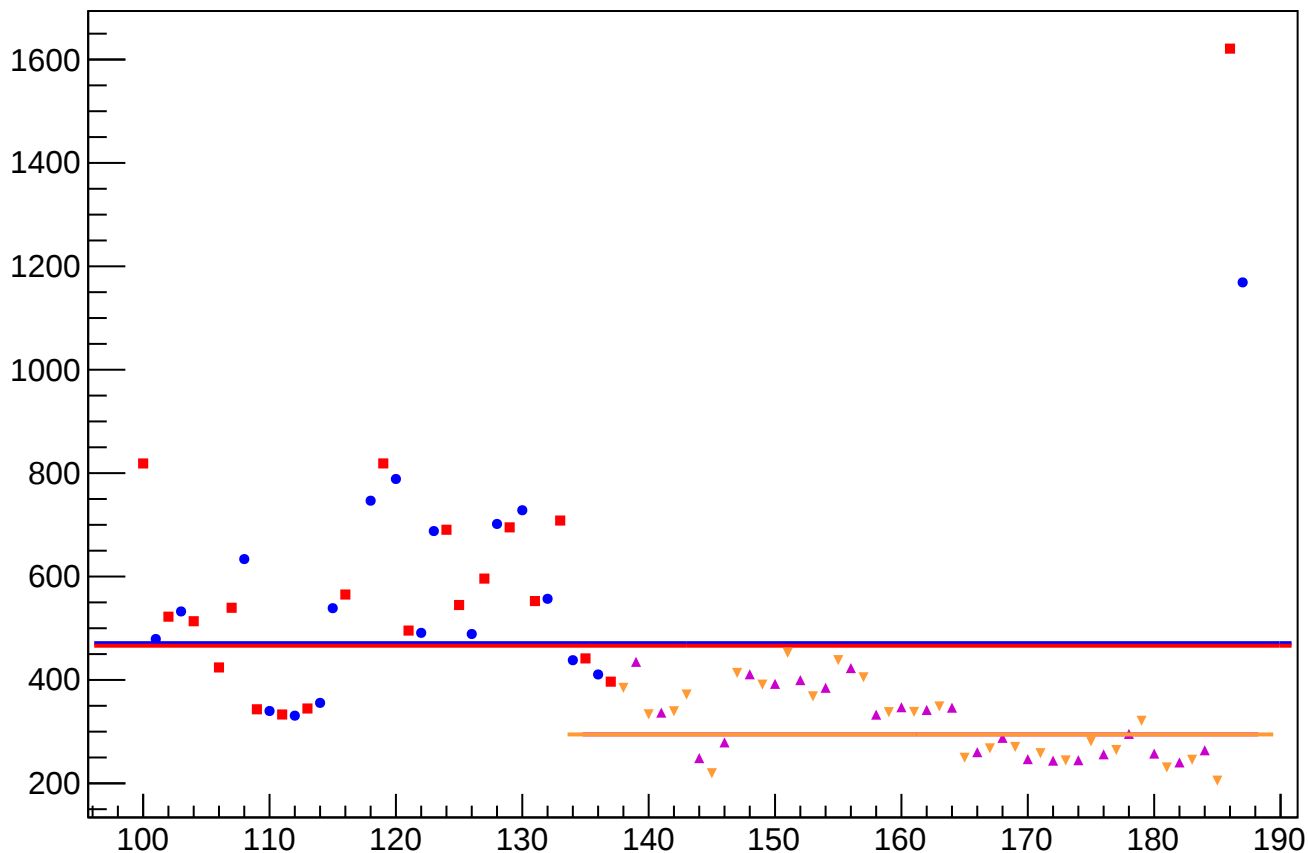
Right: -96.682 $\pm$ 129.962 χ^2 /NDF: 43.0/37

In: 51.039 $\pm$ 67.350 χ^2 /NDF:58.1/40

Out: 128.448 $\pm$ 65.549 χ^2 /NDF:67.6/44

All: 90.792 $\pm$ 46.974 χ^2 /NDF: 126.4/85

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: 466.220+/-0.127 χ^2/NDF : 1344156.2/19

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

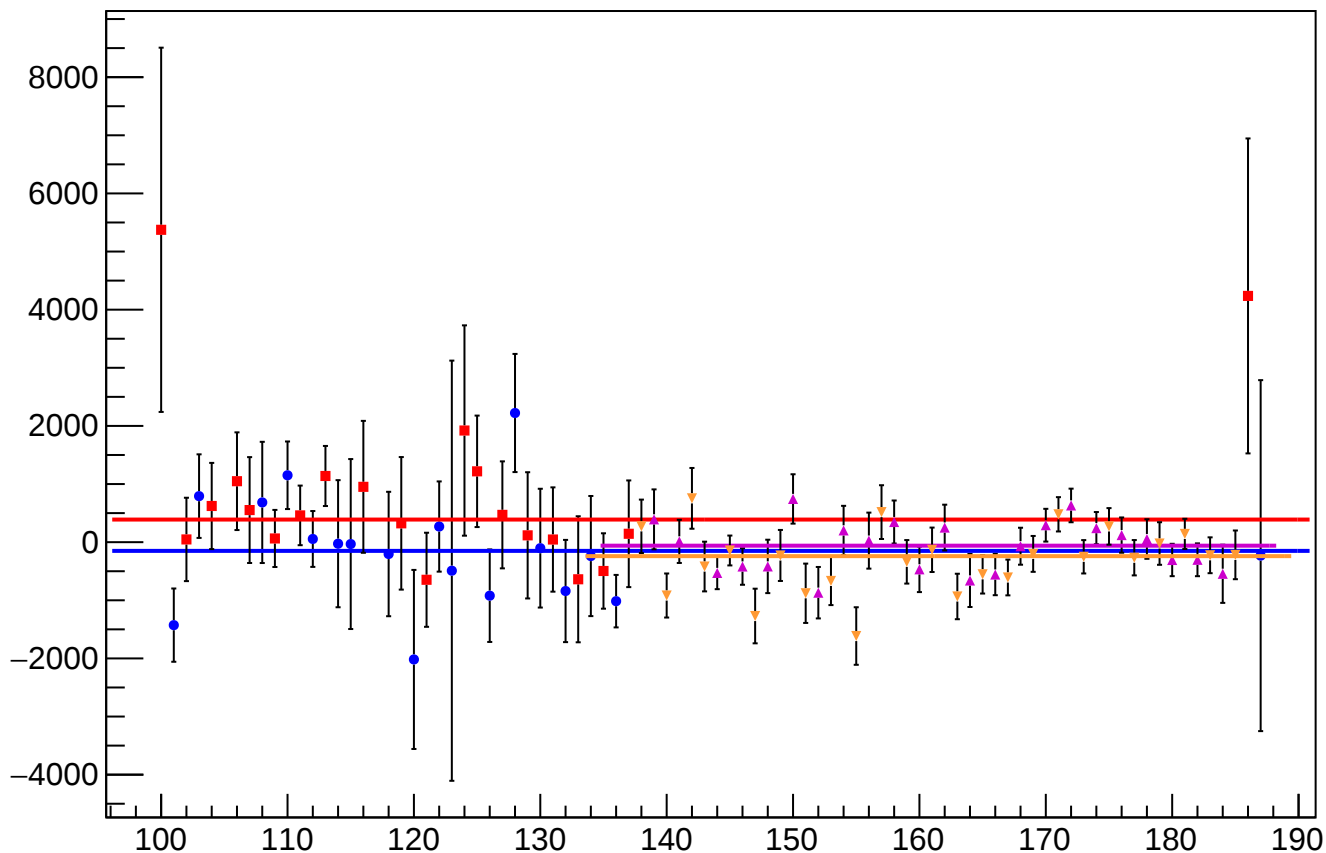
Right: 468.547+/-0.092 χ^2/NDF : 2336592.7/37

In: 317.200+/-0.048 χ^2/NDF : 3814609.7/40

Out: 317.536+/-0.046 χ^2/NDF : 4612602.8/44

All: 317.373+/-0.033 χ^2/NDF : 8427238.0/85

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -149.827 $\pm$ 189.839 χ^2 /NDF: 24.1/17

Left Out: -240.357 $\pm$ 71.100 χ^2 /NDF:42.9/24

Right Out: 389.015 $\pm$ 181.170 χ^2 /NDF: 14.5/19

Left In: -60.330 $\pm$ 72.788 χ^2 /NDF:30.9/22

Left: -152.455 $\pm$ 50.862 χ^2 /NDF: 77.0/47

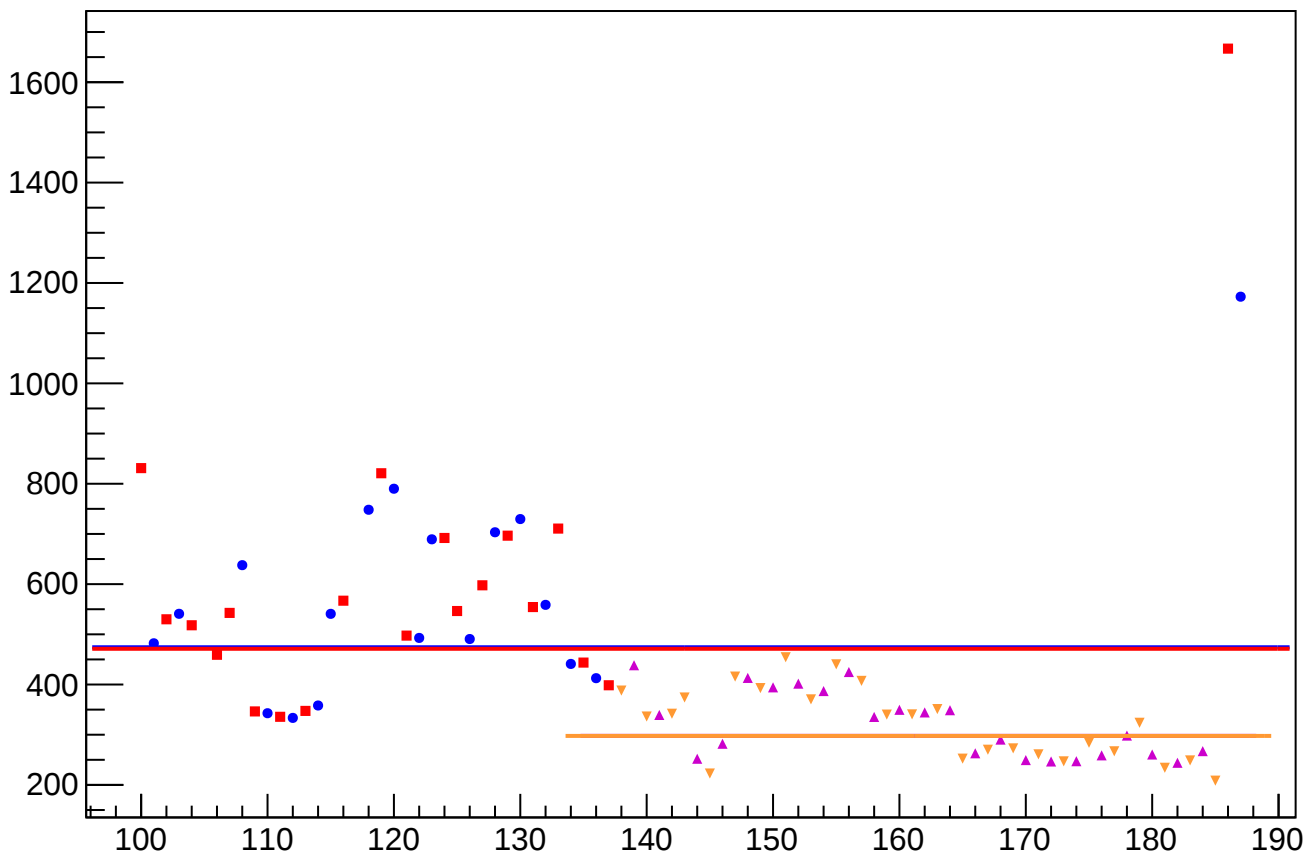
Right: 132.179 $\pm$ 131.064 χ^2 /NDF: 42.8/37

In: -71.800 $\pm$ 67.964 χ^2 /NDF:55.2/40

Out: -156.359 $\pm$ 66.186 χ^2 /NDF:67.9/44

All: -115.200 $\pm$ 47.417 χ^2 /NDF: 123.9/85

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: 471.226+/-0.128 χ^2/NDF : 1334904.5/19

Left In: 297.699+/-0.051 χ^2/NDF : 1266306.2/22

Left: 297.655+/-0.036 χ^2/NDF : 2904065.4/47

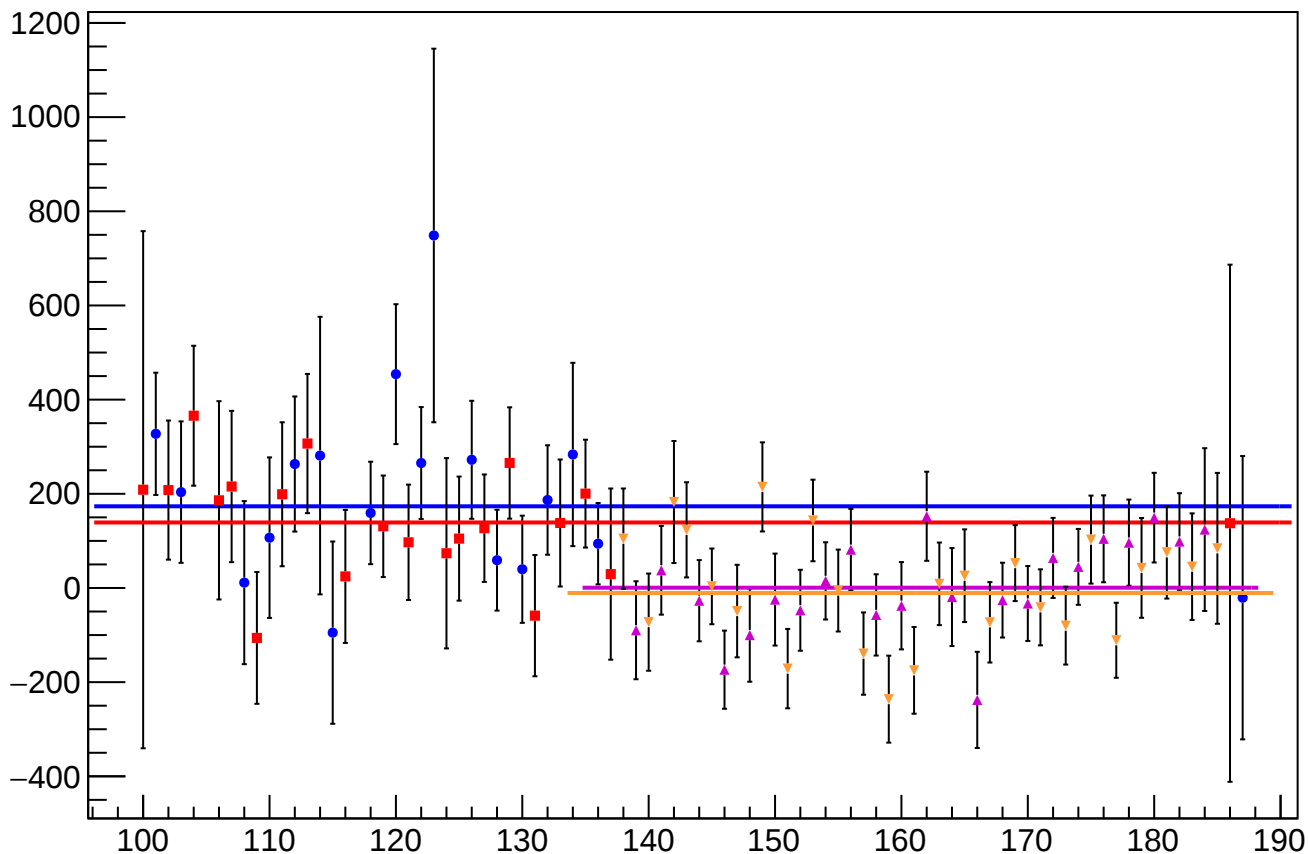
Right: 472.656+/-0.093 χ^2/NDF : 2317844.2/37

In: 320.324+/-0.048 χ^2/NDF : 3756693.3/40

Out: 320.784+/-0.047 χ^2/NDF : 4564183.6/44

All: 320.560+/-0.034 χ^2/NDF : 8320923.9/85

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: 139.136 $\pm$ 32.381 χ^2 /NDF: 12.5/19

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

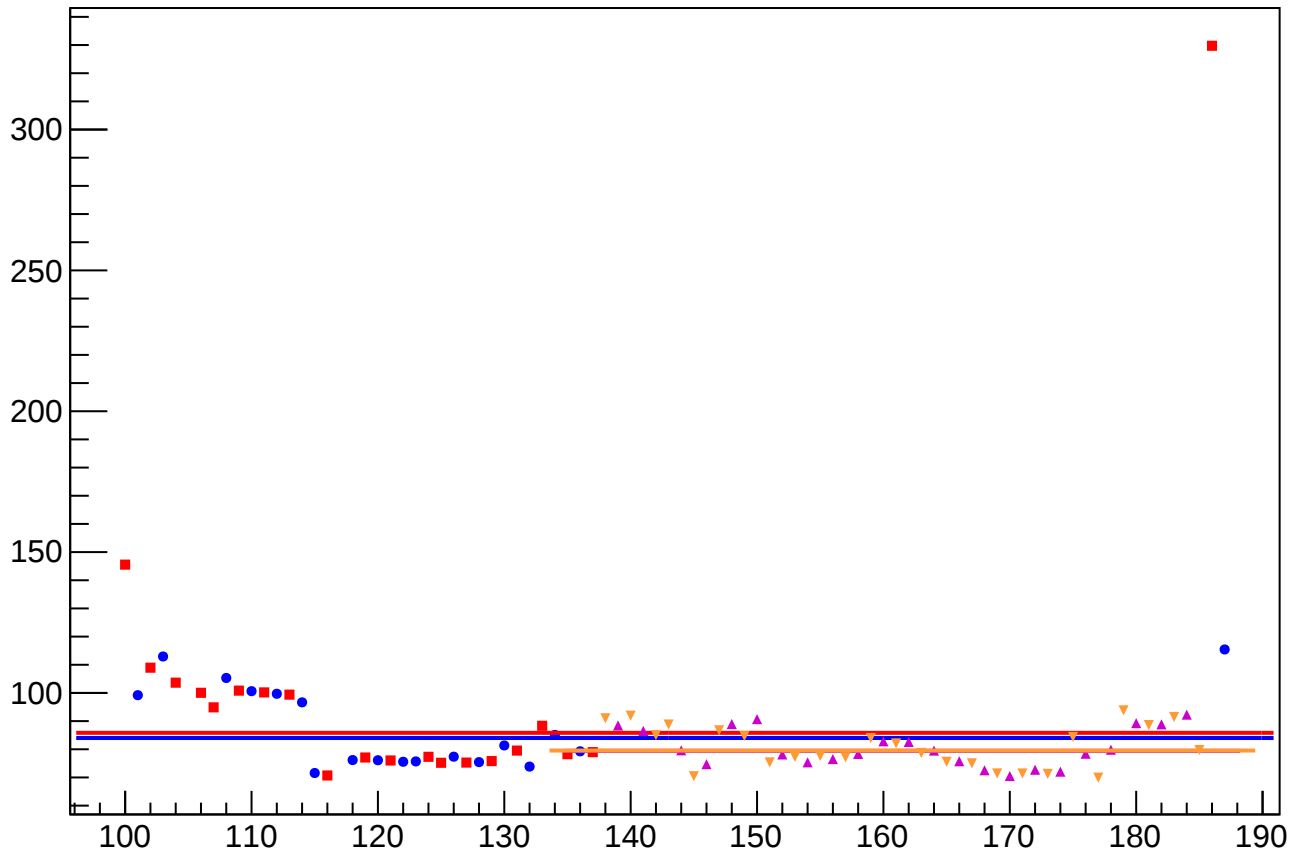
Right: 156.161 $\pm$ 22.988 χ^2 /NDF: 29.0/37

In: 44.646 $\pm$ 16.479 χ^2 /NDF:60.6/40

Out: 26.527 $\pm$ 16.135 χ^2 /NDF:64.9/44

All: 35.395 $\pm$ 11.529 χ^2 /NDF: 126.1/85

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected

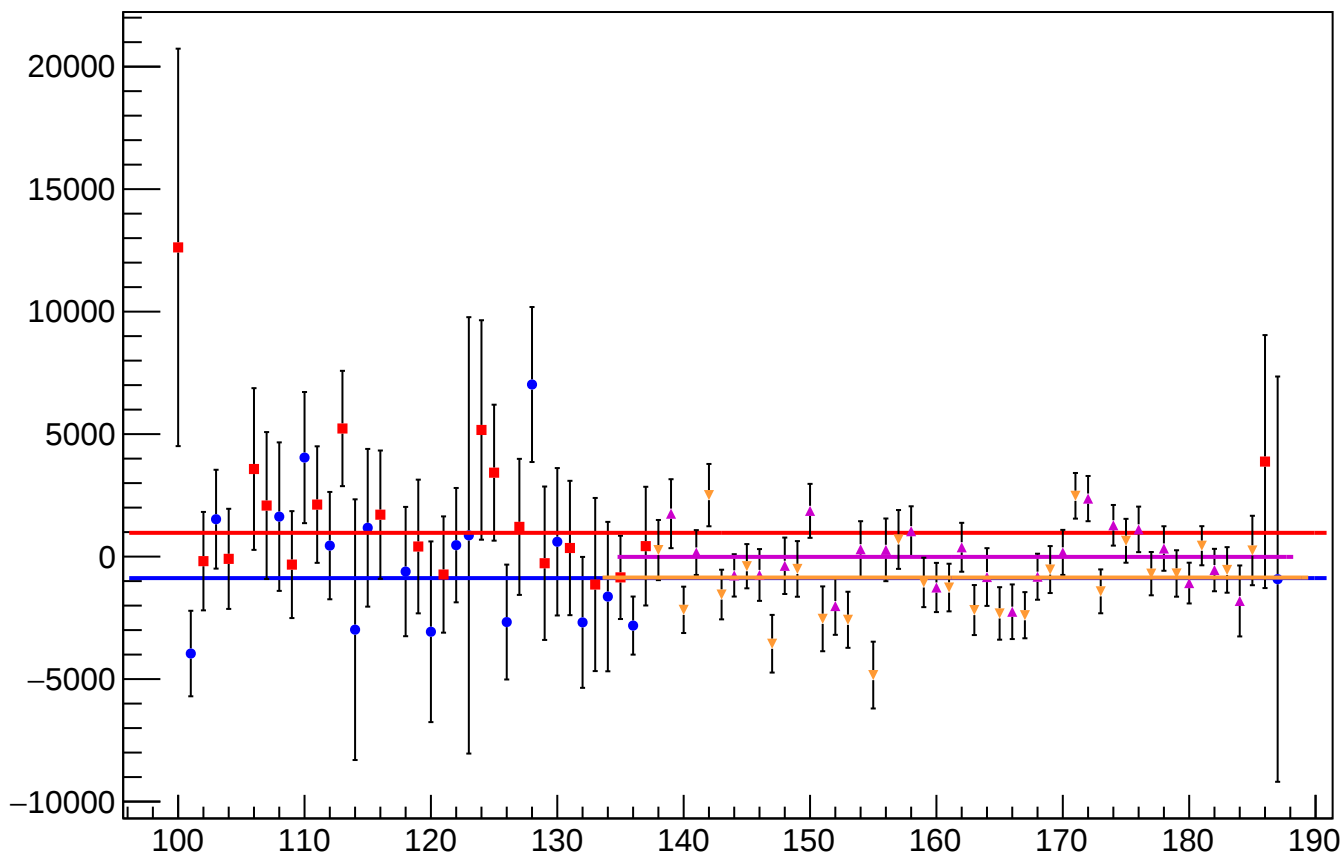


Right In: 83.996 ± 0.023 $\chi^2/\text{NDF}: 276347.3/17$
 Left Out: 79.551 ± 0.013 $\chi^2/\text{NDF}: 309075.2/24$
 Right Out: 85.840 ± 0.023 $\chi^2/\text{NDF}: 682915.5/19$
 Left In: 79.436 ± 0.013 $\chi^2/\text{NDF}: 212440.1/22$

Left: 79.495 ± 0.009 $\chi^2/\text{NDF}: 521552.2/47$
 Right: 84.926 ± 0.016 $\chi^2/\text{NDF}: 962481.1/37$
 In: 80.599 ± 0.012 $\chi^2/\text{NDF}: 517868.1/40$
 Out: 81.113 ± 0.011 $\chi^2/\text{NDF}: 1048707.4/44$

All: 80.861 ± 0.008 $\chi^2/\text{NDF}: 1567568.2/85$

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: 970.219+/-586.364 χ^2/NDF : 11.7/19

Left In: -11.687+/-210.073 χ^2/NDF :31.2/22

Left: -445.076+/-146.383 χ^2/NDF : 95.5/47

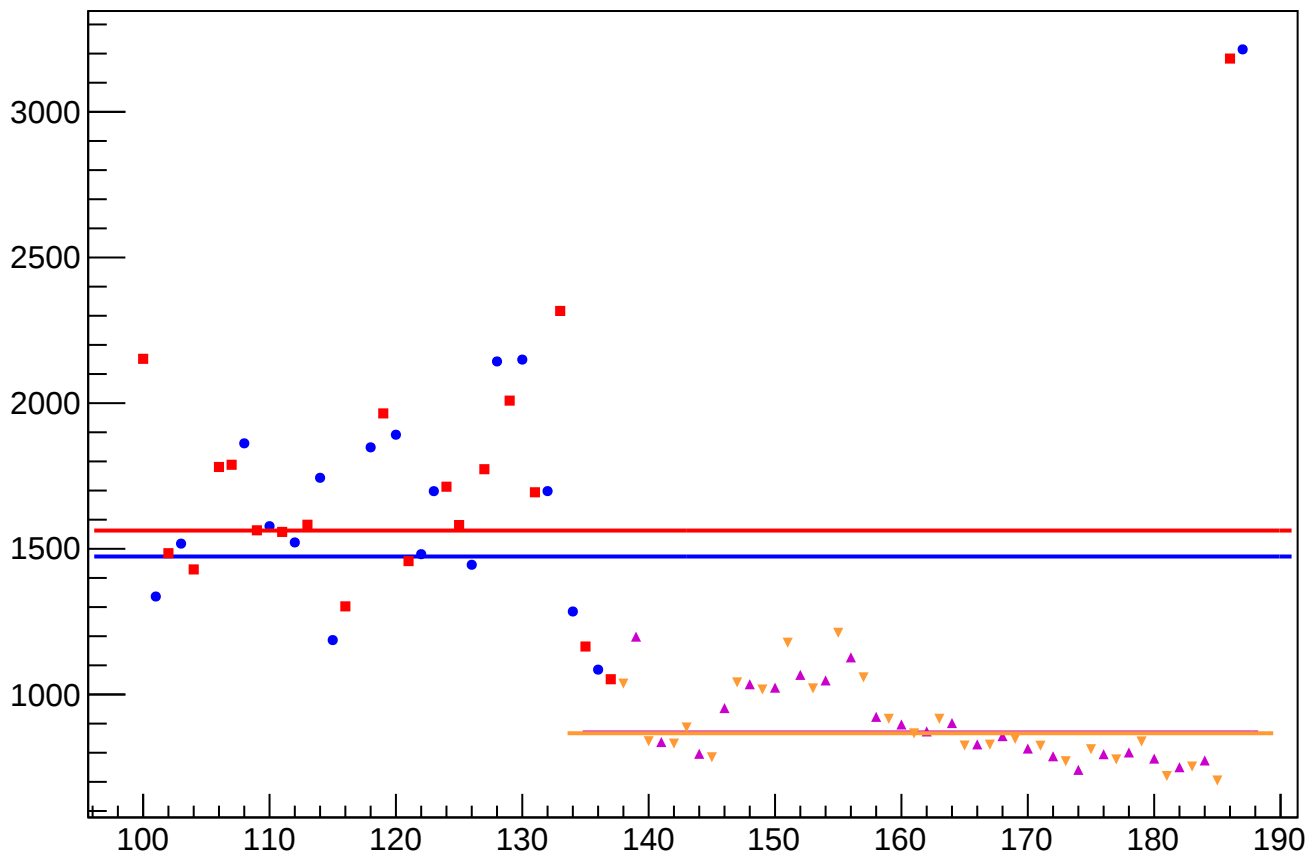
Right: 40.893+/-413.445 χ^2/NDF : 37.2/37

In: -111.222+/-197.636 χ^2/NDF :53.7/40

Out: -656.999+/-192.748 χ^2/NDF :76.3/44

All: -390.943+/-137.989 χ^2/NDF : 133.9/85

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: 1562.688 $\pm$ 0.415 χ^2 /NDF: 654736.8/19

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

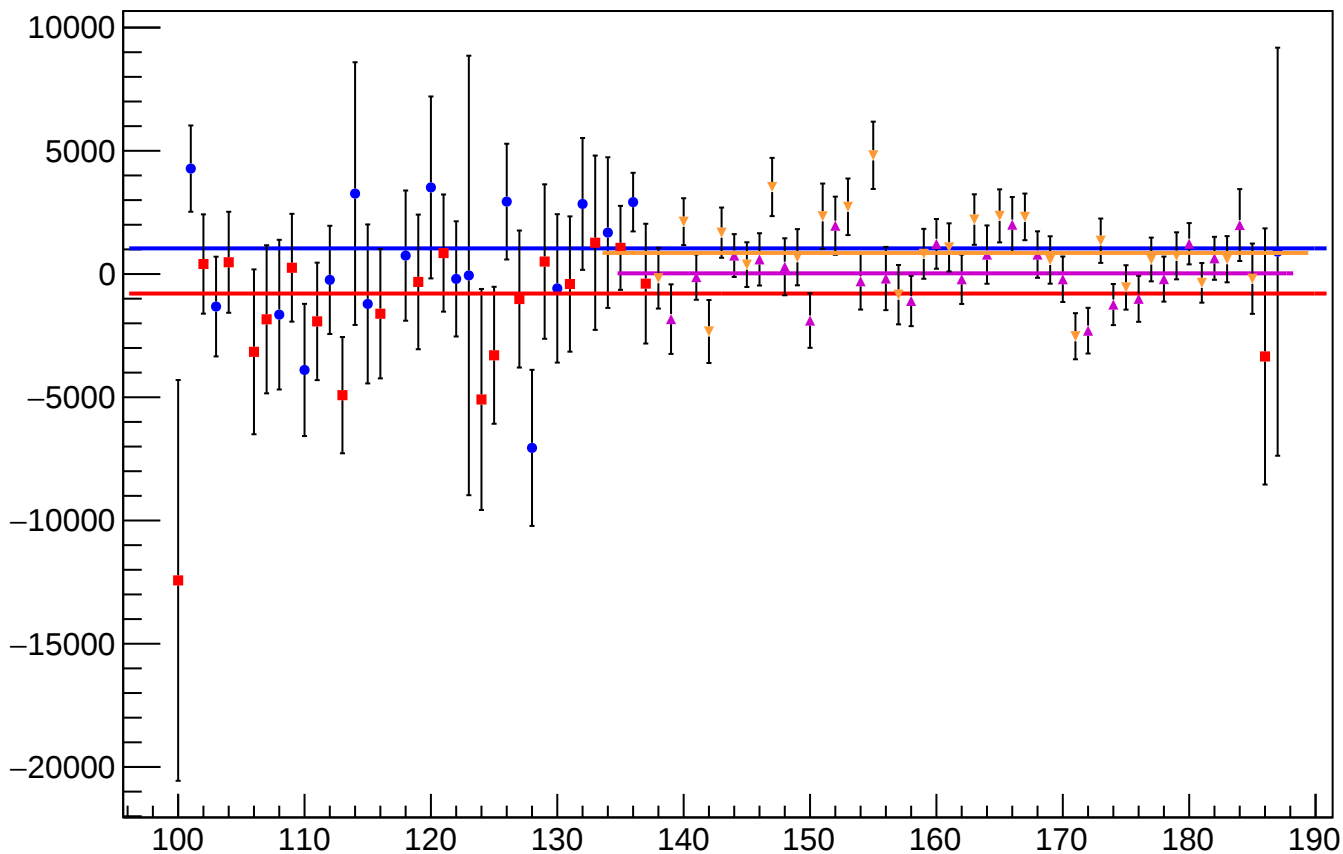
Right: 1517.898 $\pm$ 0.292 χ^2 /NDF: 1332304.1/37

In: 938.974 $\pm$ 0.140 χ^2 /NDF: 3136641.5/40

Out: 942.078 $\pm$ 0.136 χ^2 /NDF: 3828303.8/44

All: 940.565 $\pm$ 0.098 χ^2 /NDF: 6965198.1/85

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1041.809 $\pm$ 584.255 χ^2 /NDF: 21.2/17

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF: 54.1/24

Right Out: -791.137 $\pm$ 587.710 χ^2 /NDF: 11.2/19

Left In: 28.553 $\pm$ 211.034 χ^2 /NDF: 29.7/22

Left: 454.007 $\pm$ 147.061 χ^2 /NDF: 91.7/47

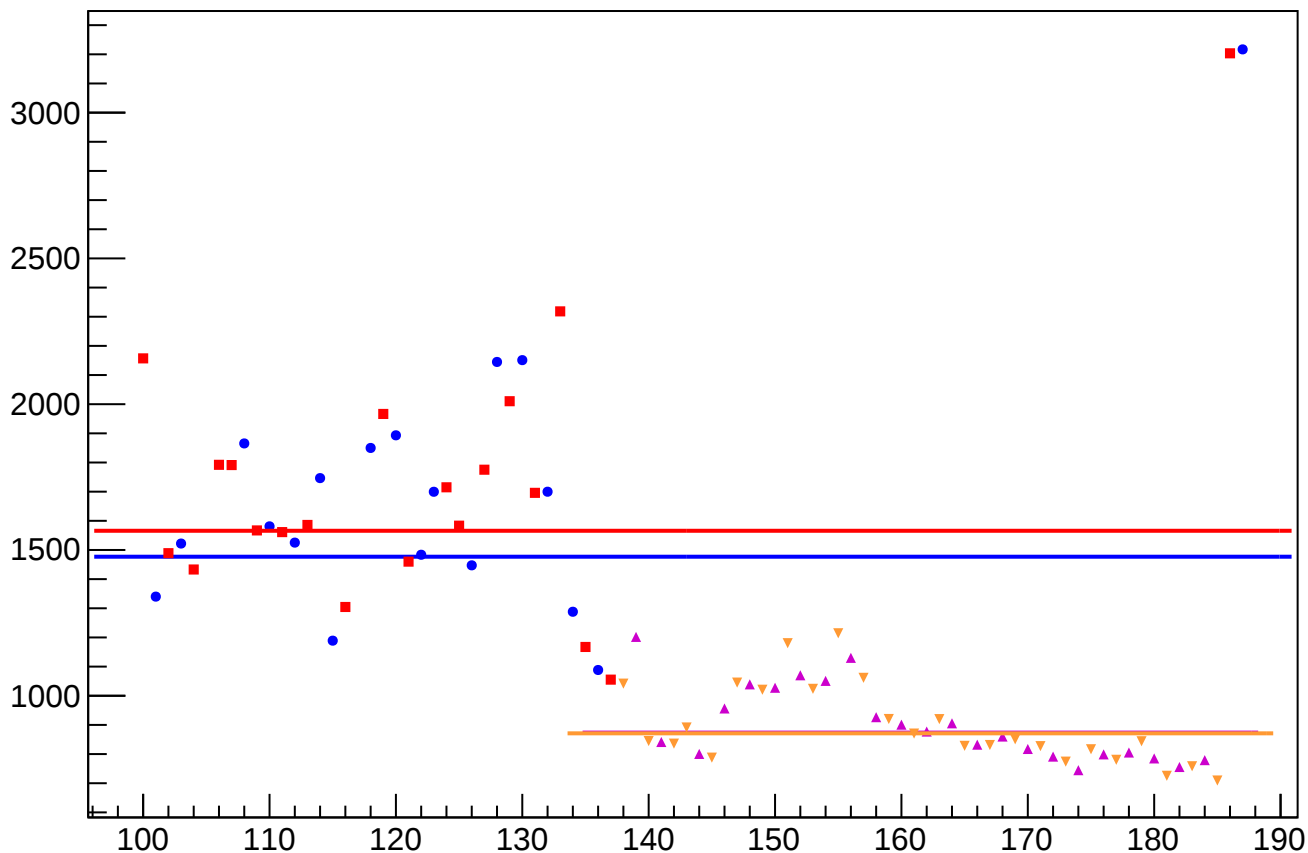
Right: 130.739 $\pm$ 414.347 χ^2 /NDF: 37.3/37

In: 145.492 $\pm$ 198.483 χ^2 /NDF: 53.6/40

Out: 676.960 $\pm$ 193.602 χ^2 /NDF: 72.3/44

All: 417.841 $\pm$ 138.591 χ^2 /NDF: 129.6/85

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: 1565.865 $\pm$ 0.416 χ^2 /NDF: 654478.7/19

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

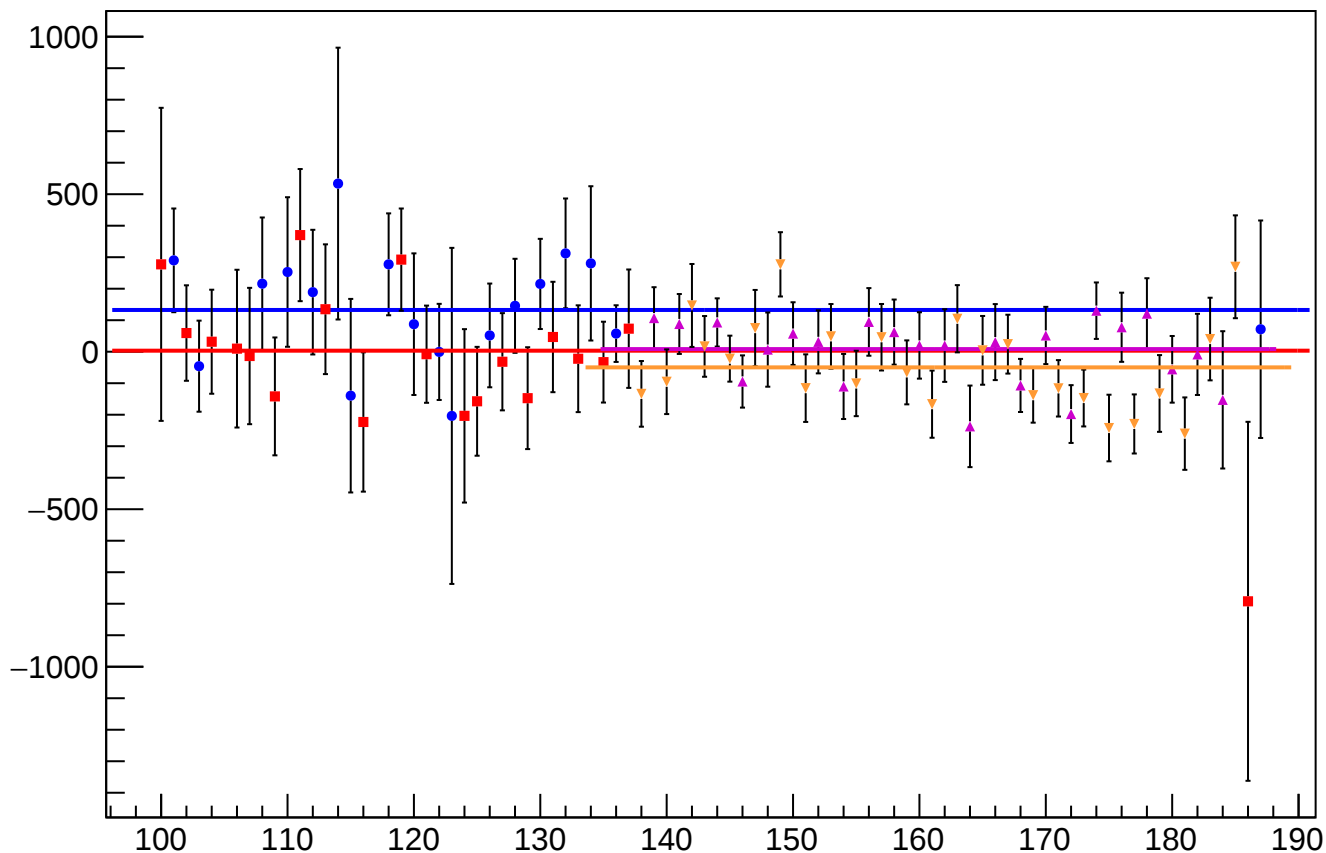
Right: 1521.123 $\pm$ 0.293 χ^2 /NDF: 1328216.2/37

In: 943.293 $\pm$ 0.140 χ^2 /NDF: 3110472.6/40

Out: 946.501 $\pm$ 0.137 χ^2 /NDF: 3797853.4/44

All: 944.937 $\pm$ 0.098 χ^2 /NDF: 6908593.7/85

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: 3.273 $\pm$ 41.402 χ^2 /NDF: 13.4/19

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

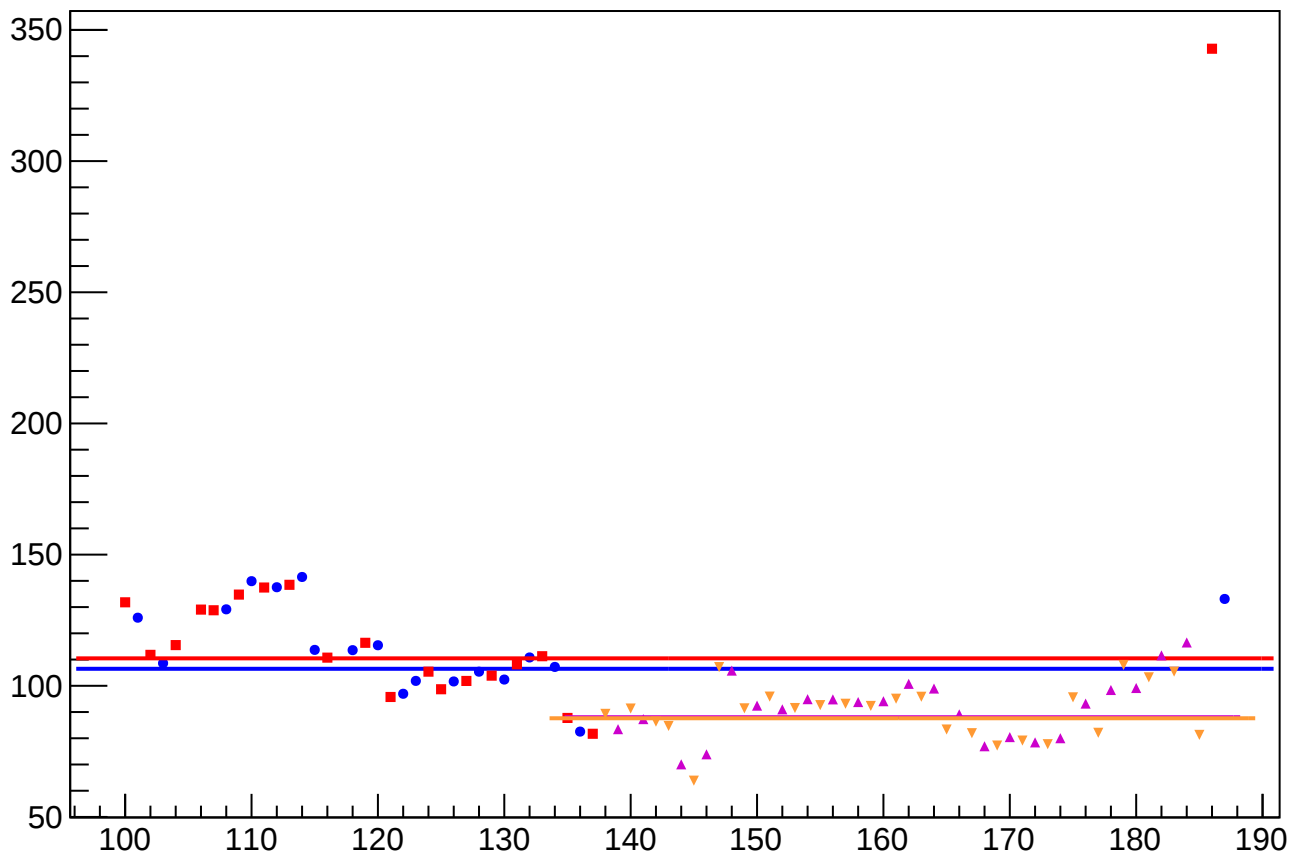
Right: 67.891 $\pm$ 29.276 χ^2 /NDF: 27.6/37

In: 34.273 $\pm$ 18.920 χ^2 /NDF:38.4/40

Out: -39.218 $\pm$ 18.429 χ^2 /NDF:54.1/44

All: -3.439 $\pm$ 13.202 χ^2 /NDF: 100.3/85

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: 110.460 $\pm$ 0.029 χ^2 /NDF: 617993.1/19

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

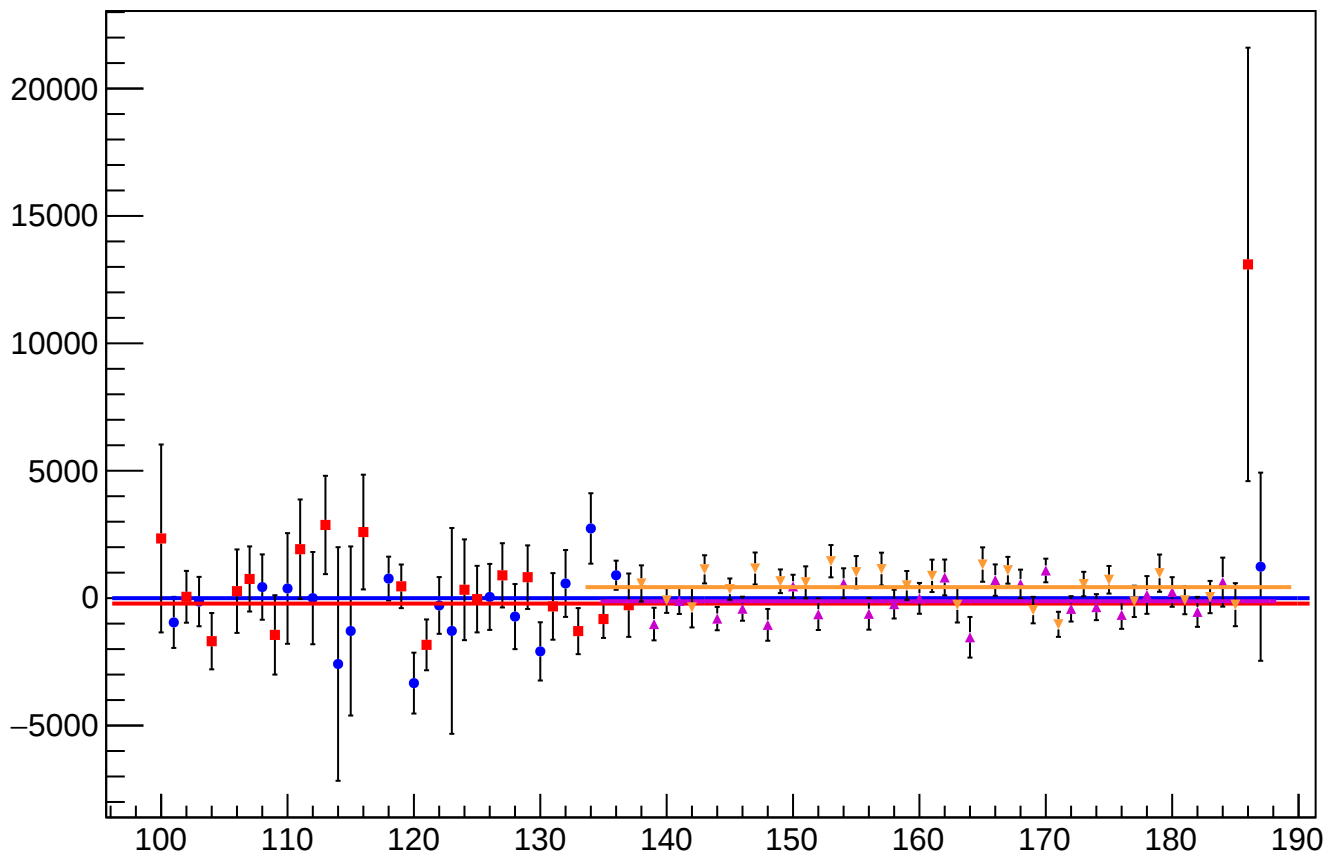
Right: 108.471 $\pm$ 0.021 χ^2 /NDF: 955402.1/37

In: 91.885 $\pm$ 0.013 χ^2 /NDF: 1166099.3/40

Out: 92.150 $\pm$ 0.013 χ^2 /NDF: 1660532.5/44

All: 92.021 $\pm$ 0.009 χ^2 /NDF: 2826832.8/85

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: -213.388 ± 279.994 $\chi^2/\text{NDF}: 18.3/19$

Left In: -123.017 ± 118.849 $\chi^2/\text{NDF}: 29.3/22$

Left: 161.753 ± 82.905 $\chi^2/\text{NDF}: 70.9/47$

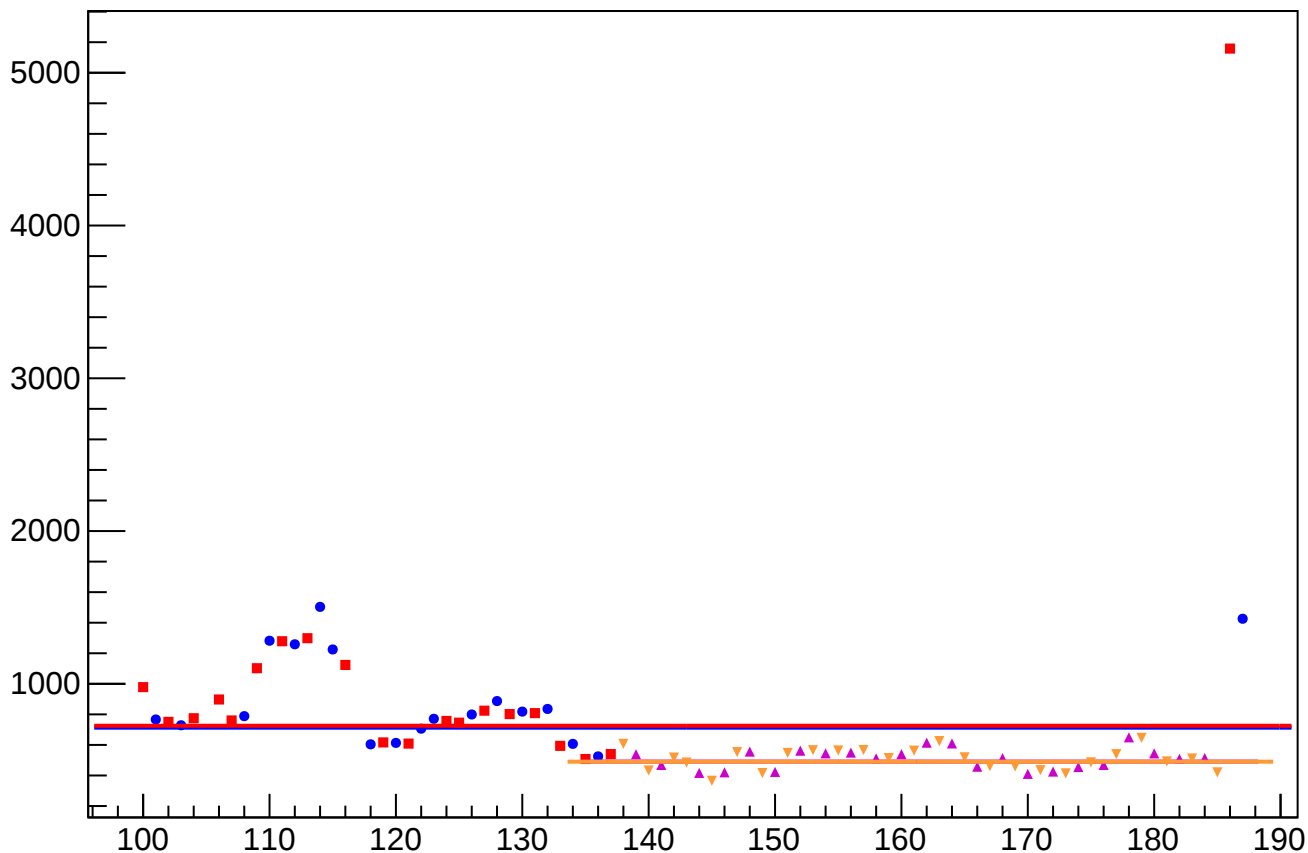
Right: -108.479 ± 199.188 $\chi^2/\text{NDF}: 39.2/37$

In: -104.767 ± 109.603 $\chi^2/\text{NDF}: 50.1/40$

Out: 337.571 ± 106.935 $\chi^2/\text{NDF}: 53.3/44$

All: 121.852 ± 76.540 $\chi^2/\text{NDF}: 111.7/85$

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 713.044 $\pm$ 0.200 χ^2 /NDF: 868468.8/17

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 725.490 $\pm$ 0.198 χ^2 /NDF: 1445566.2/19

Left In: 490.910 $\pm$ 0.084 χ^2 /NDF: 589235.5/22

Left: 490.580 $\pm$ 0.059 χ^2 /NDF: 1339542.5/47

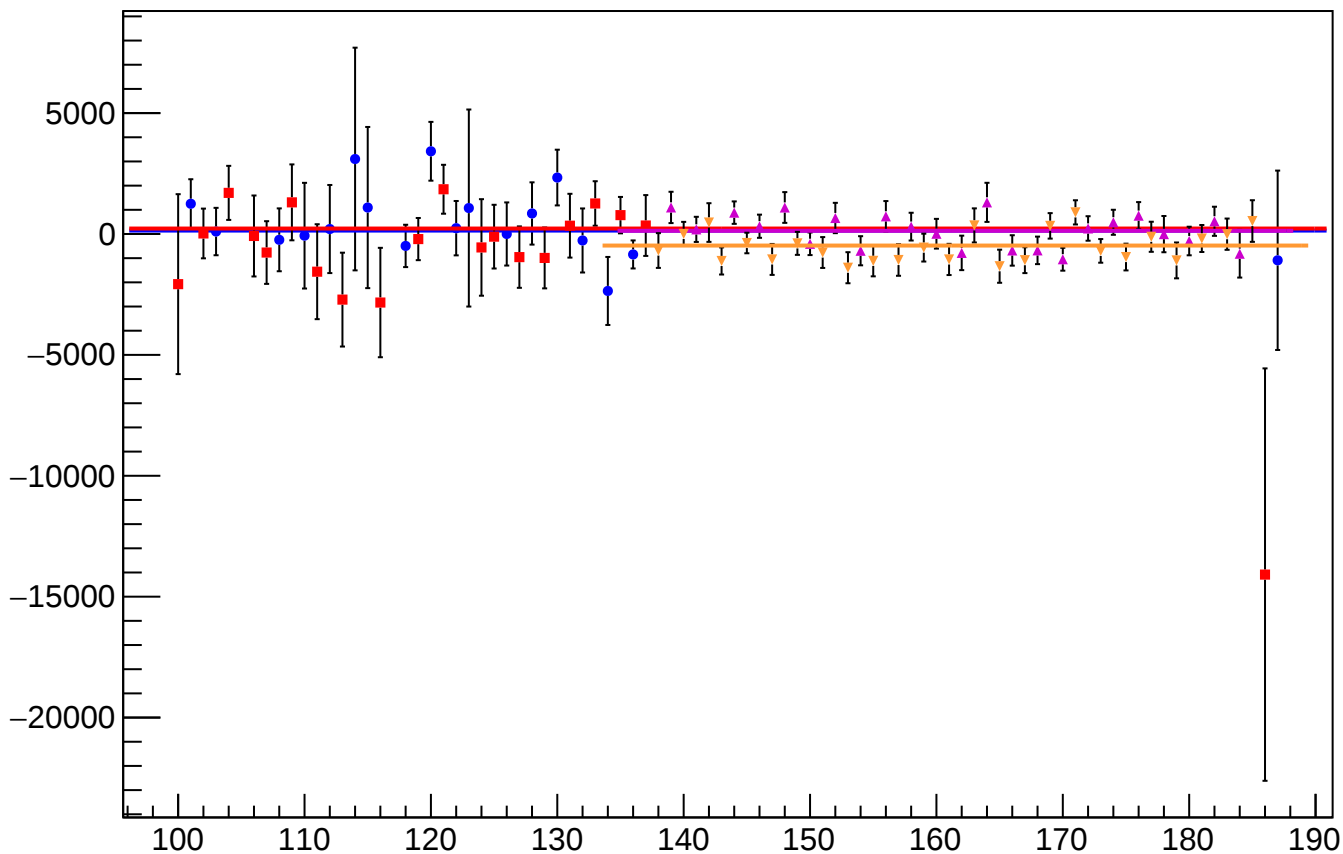
Right: 719.343 $\pm$ 0.141 χ^2 /NDF: 2315986.8/37

In: 524.128 $\pm$ 0.078 χ^2 /NDF: 2502505.5/40

Out: 524.577 $\pm$ 0.076 χ^2 /NDF: 3401488.1/44

All: 524.358 $\pm$ 0.054 χ^2 /NDF: 5904010.8/85

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: 225.361 $\pm$ 283.626 χ^2 /NDF: 17.7/19

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

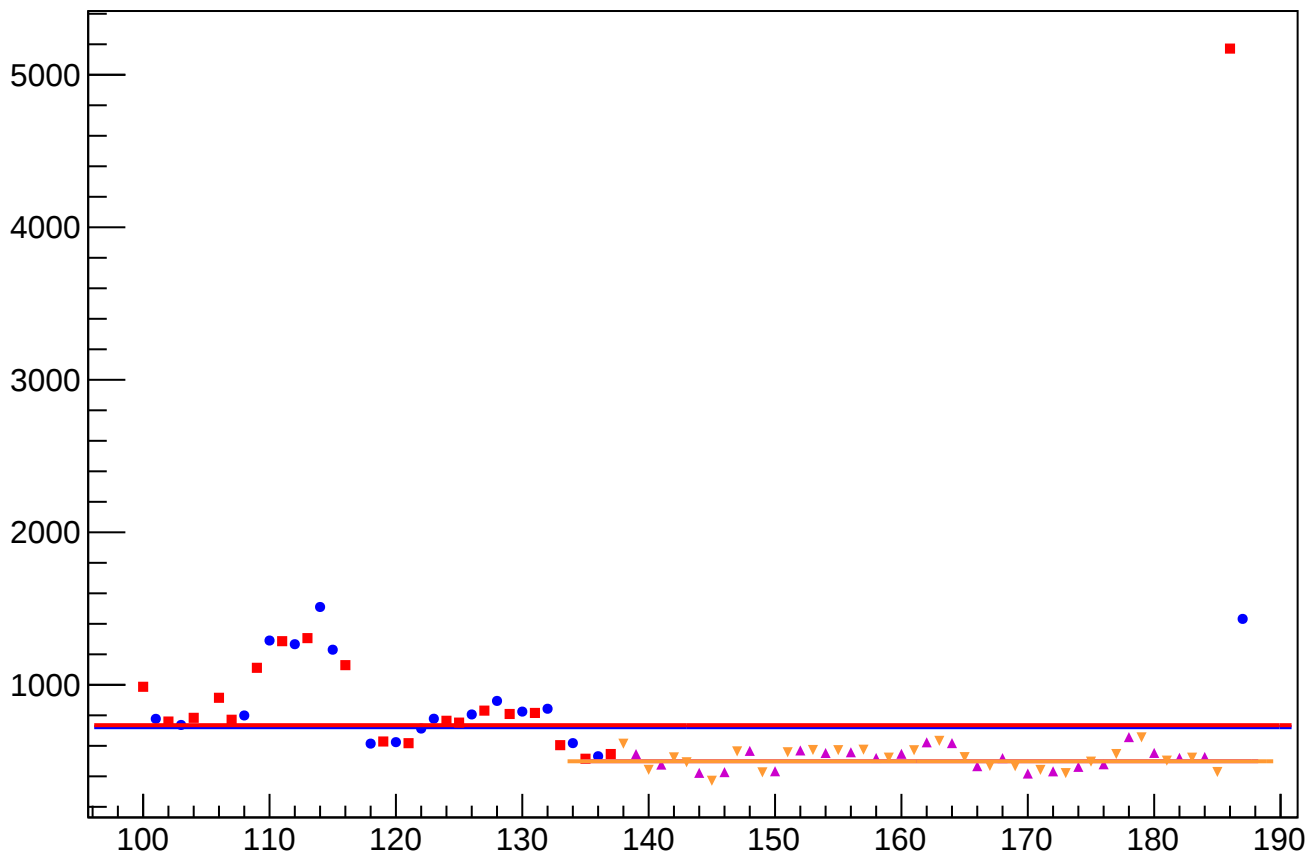
Right: 184.017 $\pm$ 201.697 χ^2 /NDF: 37.6/37

In: 133.926 $\pm$ 111.385 χ^2 /NDF:49.4/40

Out: -374.898 $\pm$ 108.679 χ^2 /NDF:50.7/44

All: -126.741 $\pm$ 77.786 χ^2 /NDF: 110.8/85

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: 735.456 $\pm$ 0.201 χ^2 /NDF: 1425434.7/19

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

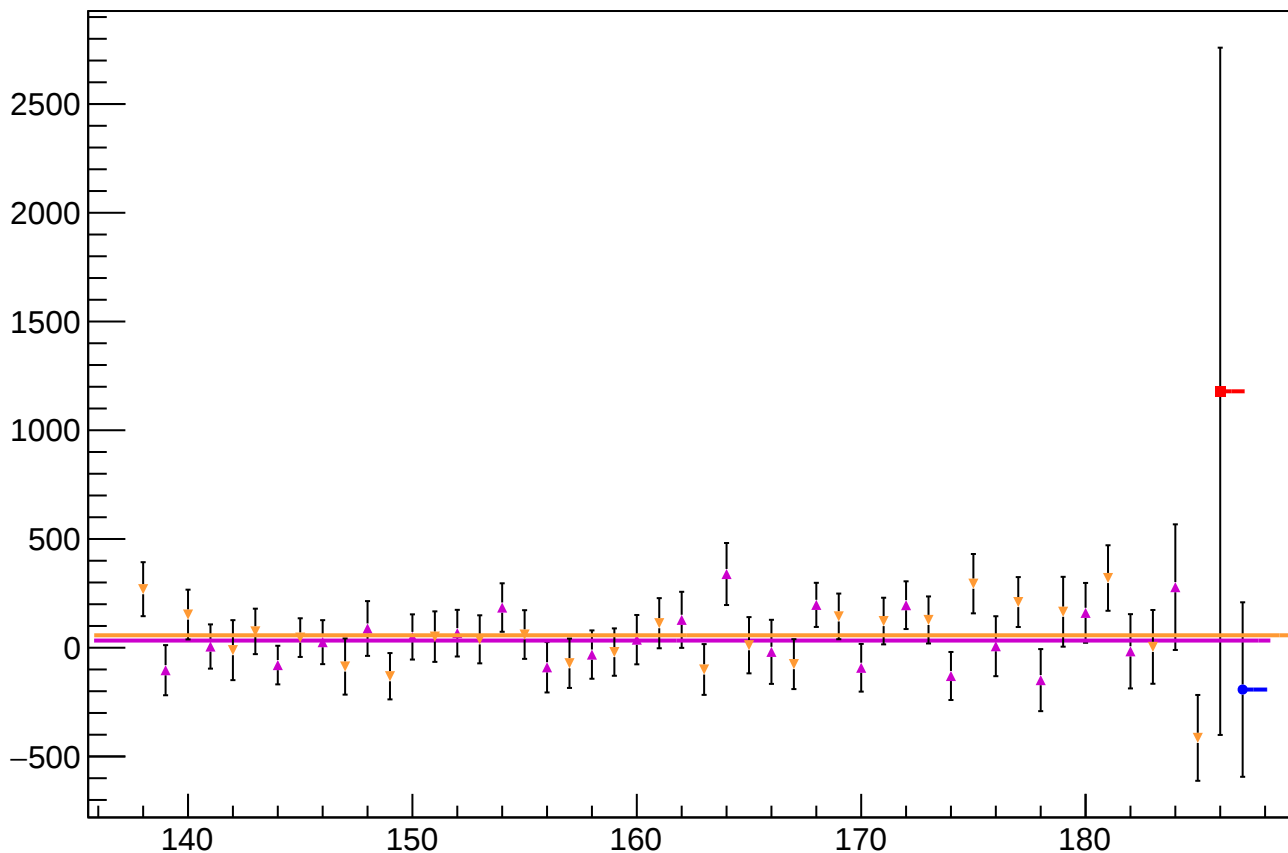
Right: 728.946 $\pm$ 0.143 χ^2 /NDF: 2279769.8/37

In: 532.992 $\pm$ 0.079 χ^2 /NDF: 2454025.9/40

Out: 533.508 $\pm$ 0.077 χ^2 /NDF: 3348178.1/44

All: 533.256 $\pm$ 0.055 χ^2 /NDF: 5802225.9/85

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -192.333 ± 401.193 $\chi^2/\text{NDF}: 0.0/0$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: 1179.060 ± 1580.134 $\chi^2/\text{NDF}: 0.0/0$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

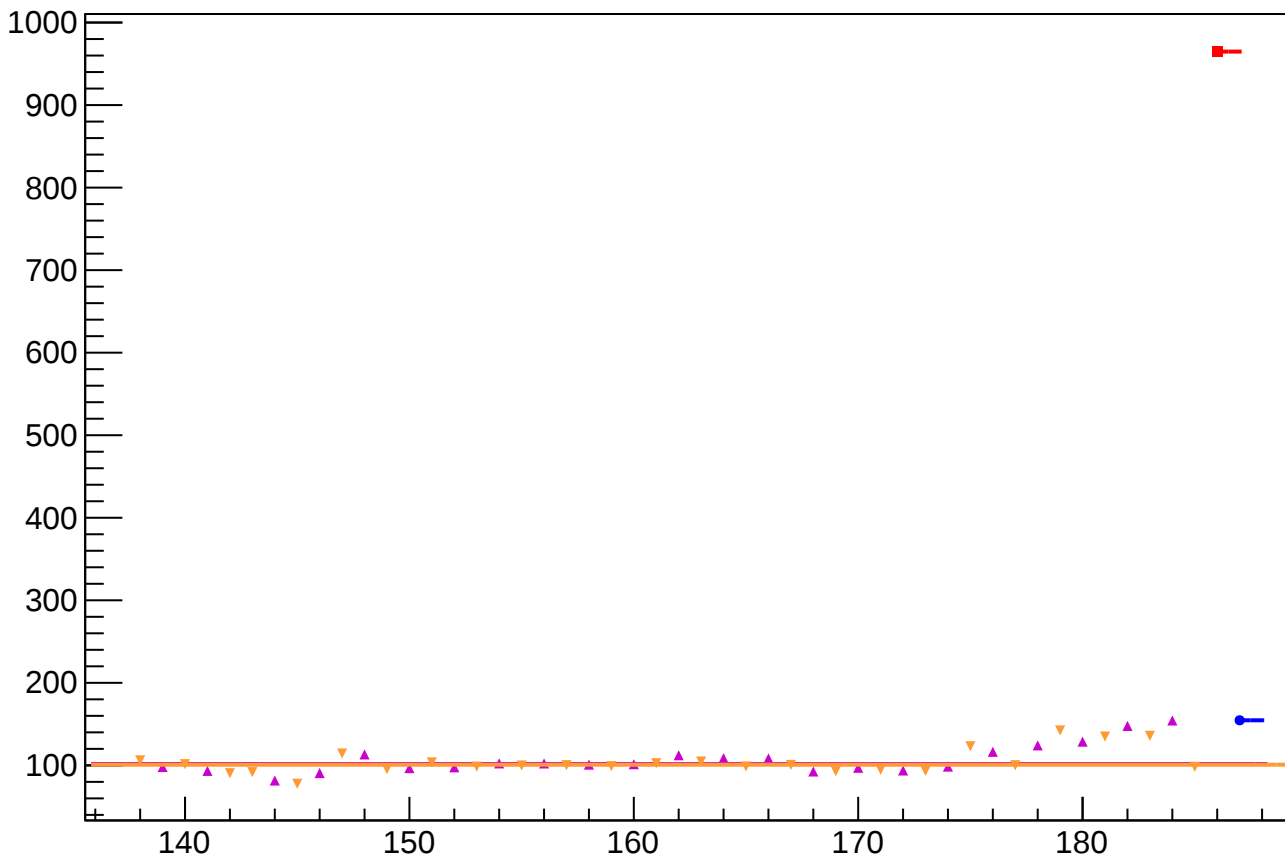
Right: -109.281 ± 388.855 $\chi^2/\text{NDF}: 0.7/1$

In: 32.105 ± 24.541 $\chi^2/\text{NDF}: 23.9/23$

Out: 57.463 ± 23.711 $\chi^2/\text{NDF}: 29.7/25$

All: 45.220 ± 17.052 $\chi^2/\text{NDF}: 54.2/49$

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: 964.788 $\pm$ 1.117 χ^2 /NDF: 0.0/0

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

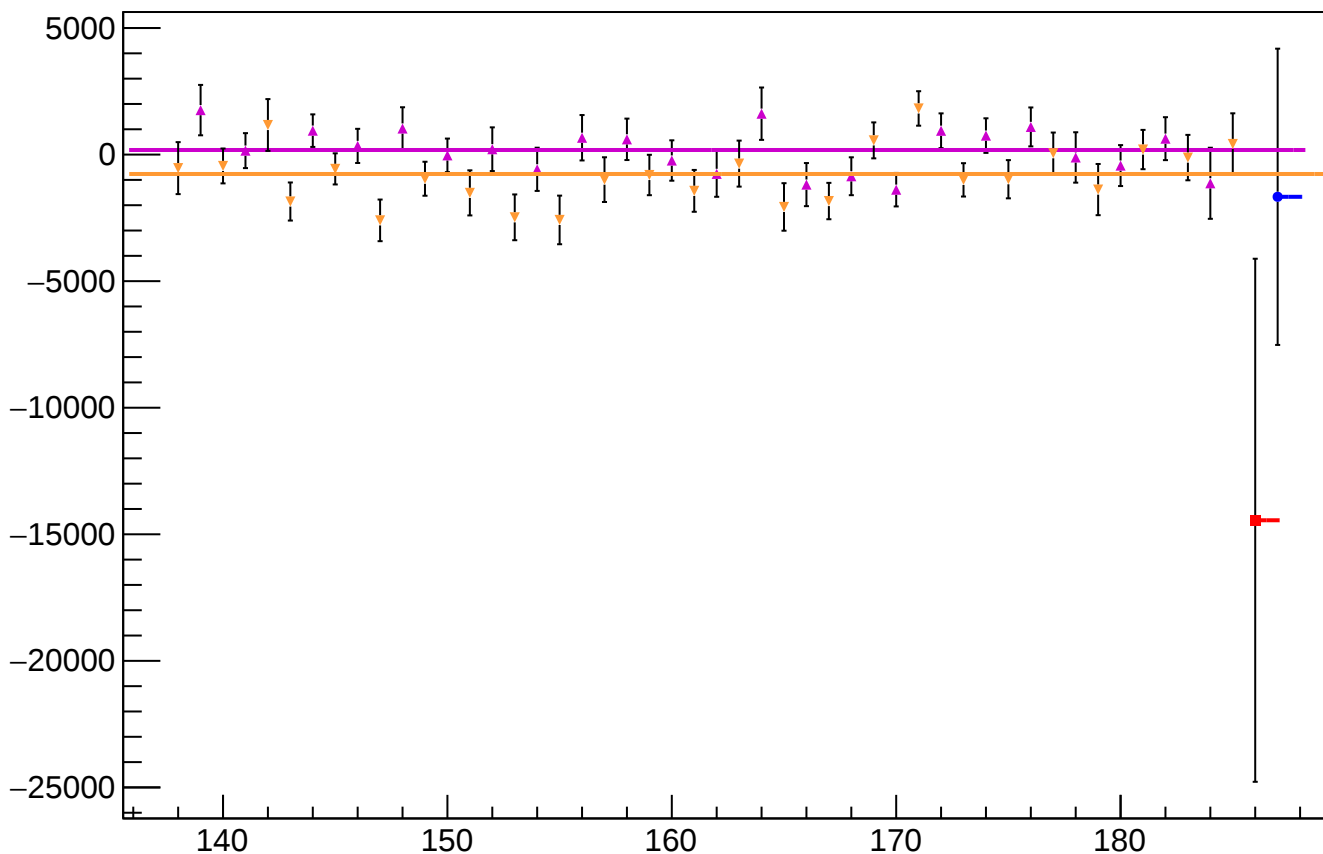
Right: 203.685 $\pm$ 0.275 χ^2 /NDF: 493923.9/1

In: 101.820 $\pm$ 0.017 χ^2 /NDF:617101.4/23

Out: 100.995 $\pm$ 0.017 χ^2 /NDF:1198306.6/25

All: 101.393 $\pm$ 0.012 χ^2 /NDF: 1816576.9/49

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: -14446.137 $\pm$ 10331.594 χ^2 /NDF: 0.0/0

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

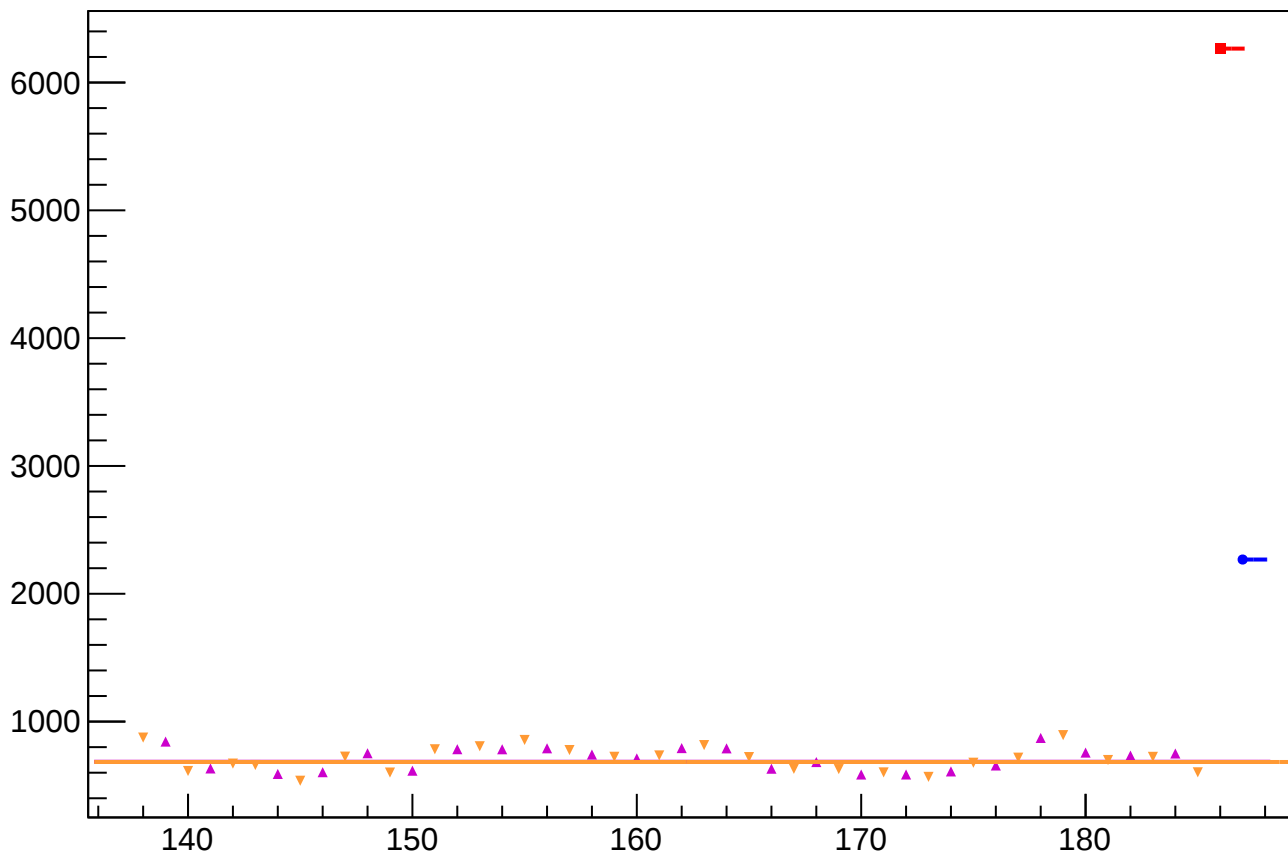
Right: -4771.536 $\pm$ 5091.873 χ^2 /NDF: 1.2/1

In: 180.103 $\pm$ 165.604 χ^2 /NDF:25.1/23

Out: -769.682 $\pm$ 161.047 χ^2 /NDF:48.3/25

All: -308.039 $\pm$ 115.455 χ^2 /NDF: 90.3/49

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 2267.876+/-4.138 χ^2/NDF : 0.0/0

Left Out: 683.884+/-0.114 χ^2/NDF : 667158.2/24

Right Out: 6265.420+/-7.306 χ^2/NDF : 0.0/0

Left In: 685.593+/-0.117 χ^2/NDF : 529353.6/22

Left: 684.715+/-0.082 χ^2/NDF : 1196621.1/47

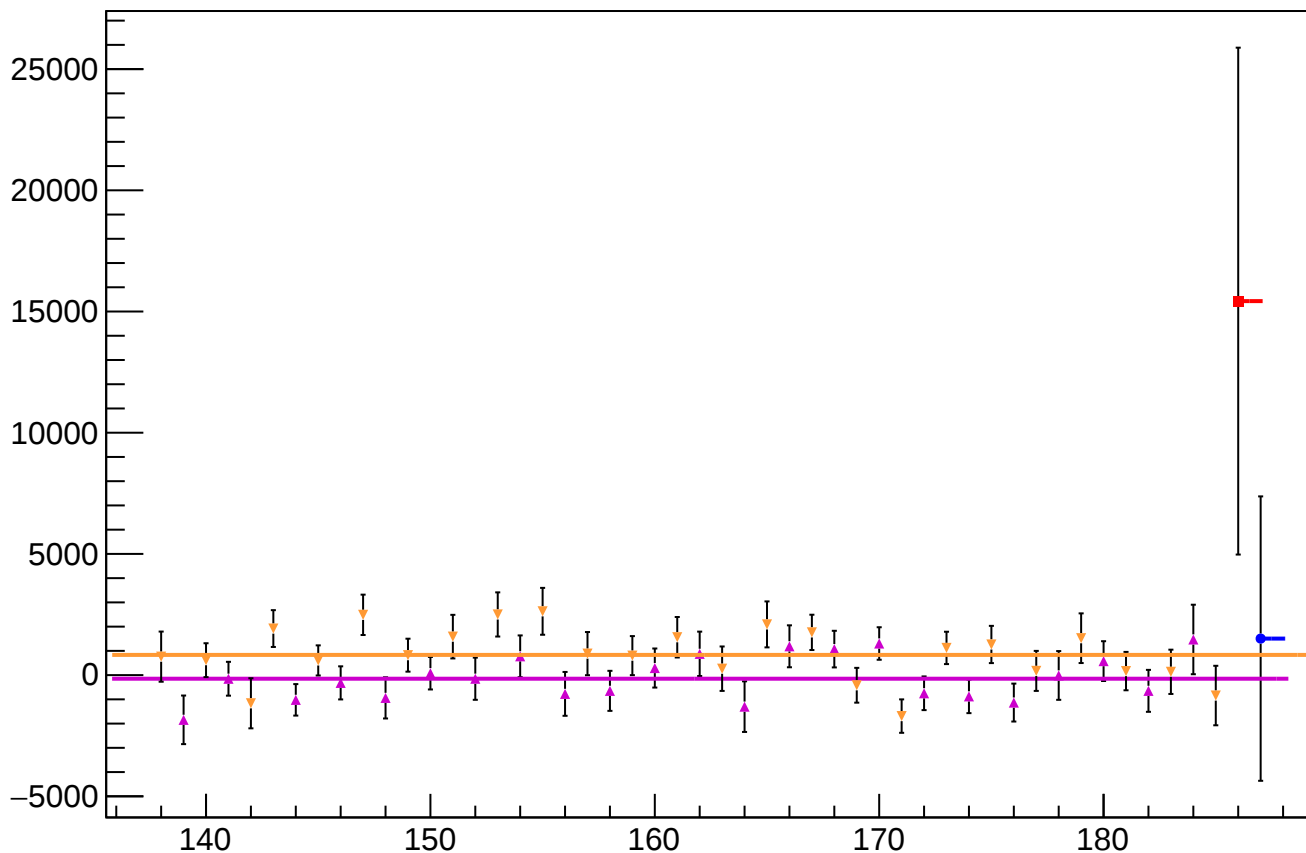
Right: 3238.864+/-3.600 χ^2/NDF : 226692.6/1

In: 686.860+/-0.117 χ^2/NDF : 675453.9/23

Out: 685.241+/-0.114 χ^2/NDF : 1250733.8/25

All: 686.028+/-0.082 χ^2/NDF : 1926286.0/49

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: 15429.058 $\pm$ 10455.613 χ^2 /NDF: 0.0/0

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

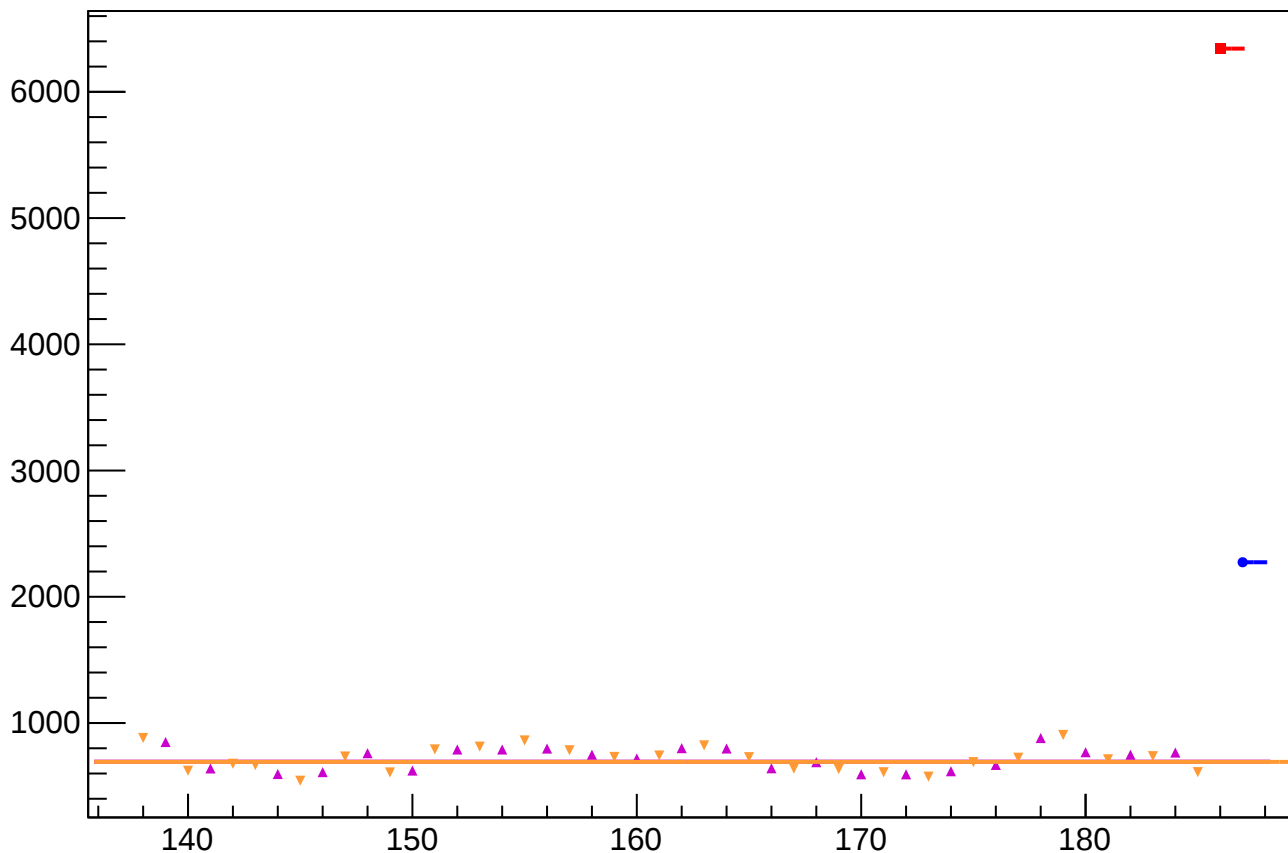
Right: 4840.011 $\pm$ 5116.201 χ^2 /NDF: 1.3/1

In: -147.463 $\pm$ 167.576 χ^2 /NDF:26.1/23

Out: 836.940 $\pm$ 162.945 χ^2 /NDF:45.2/25

All: 358.526 $\pm$ 116.822 χ^2 /NDF: 89.0/49

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: 6342.458 $\pm$ 7.393 χ^2 /NDF: 0.0/0

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

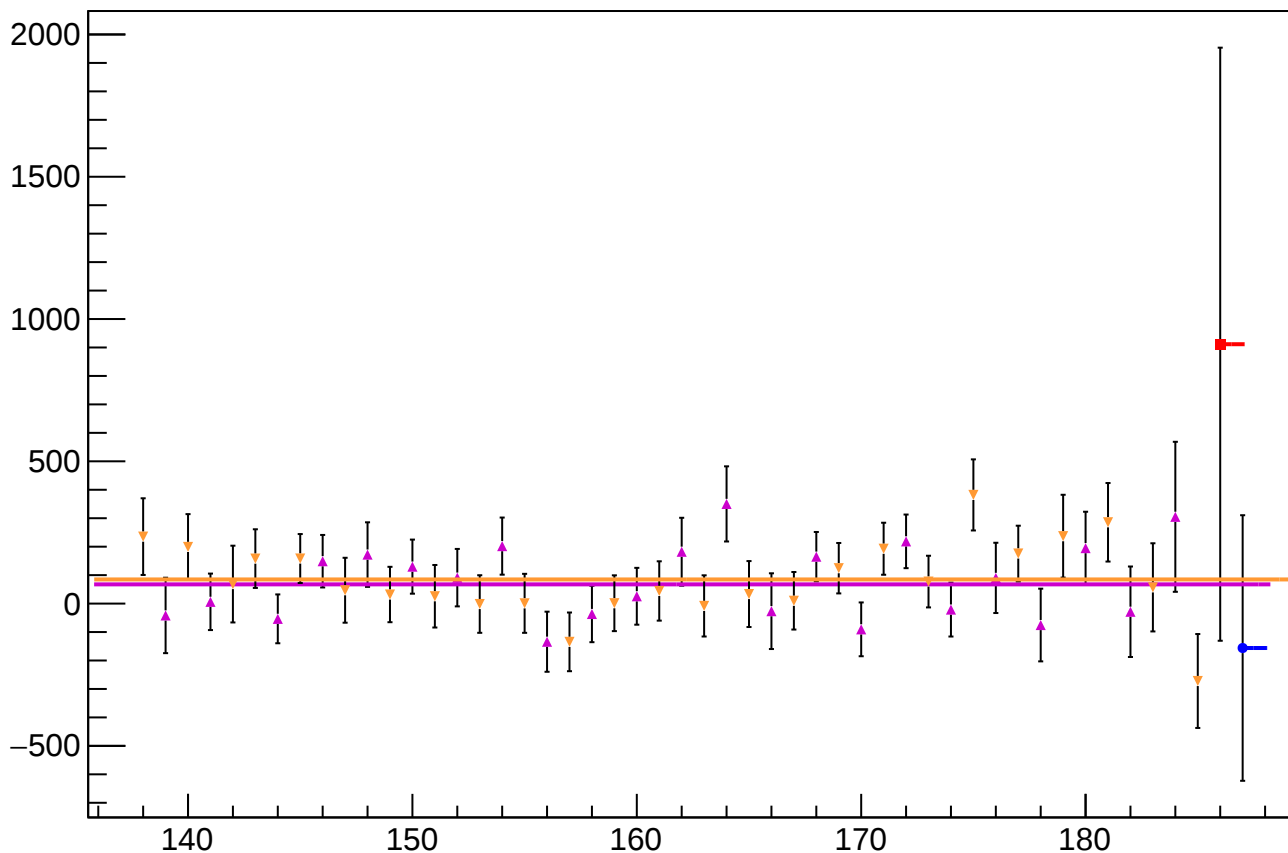
Right: 3247.778 $\pm$ 3.618 χ^2 /NDF: 230371.5/1

In: 695.156 $\pm$ 0.118 χ^2 /NDF:666941.3/23

Out: 693.469 $\pm$ 0.115 χ^2 /NDF:1241212.6/25

All: 694.289 $\pm$ 0.083 χ^2 /NDF: 1908258.1/49

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: 911.496 $\pm$ 1042.106 χ^2 /NDF: 0.0/0

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

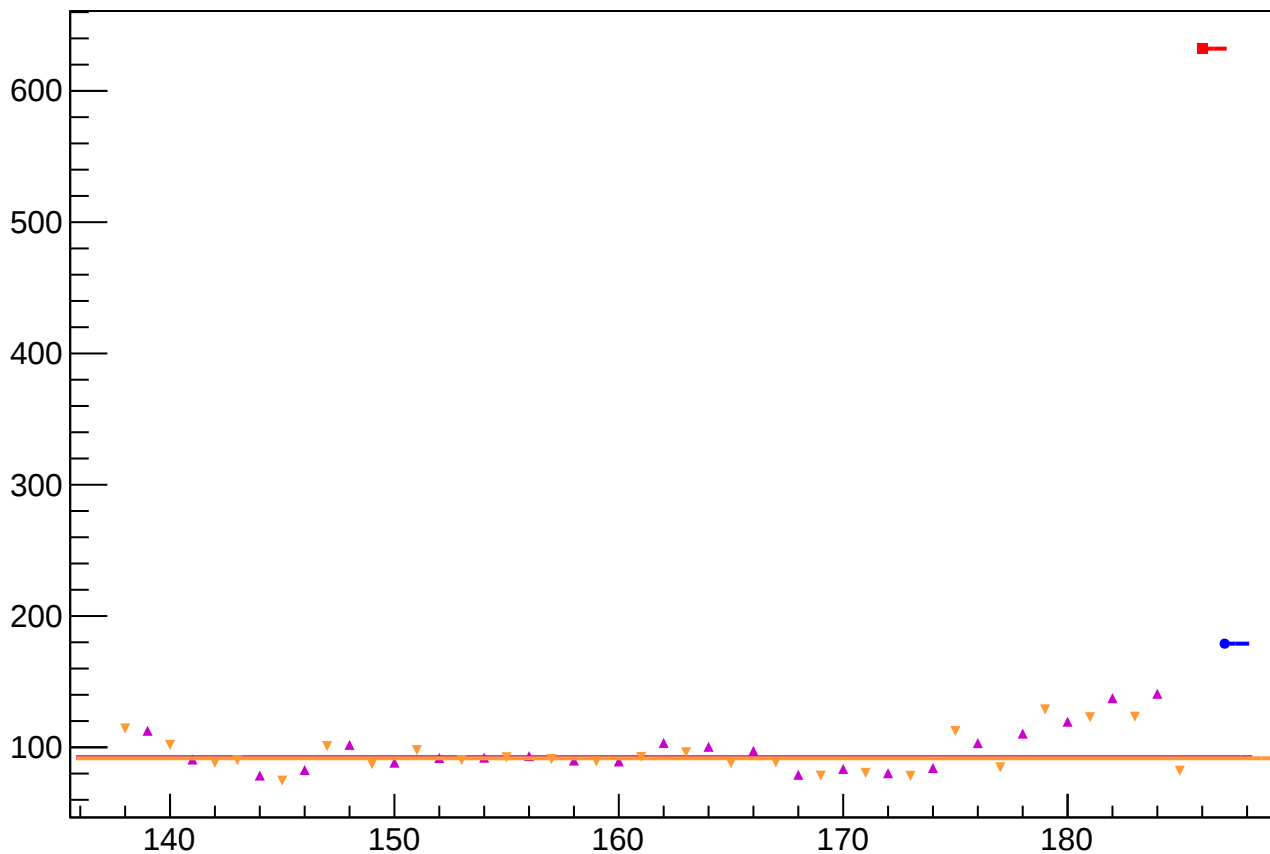
Right: 22.210 $\pm$ 425.894 χ^2 /NDF: 0.9/1

In: 67.036 $\pm$ 22.423 χ^2 /NDF:29.1/23

Out: 85.216 $\pm$ 21.638 χ^2 /NDF:29.1/25

All: 76.450 $\pm$ 15.571 χ^2 /NDF: 58.5/49

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: 632.197 $\pm$ 0.737 χ^2 /NDF: 0.0/0

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

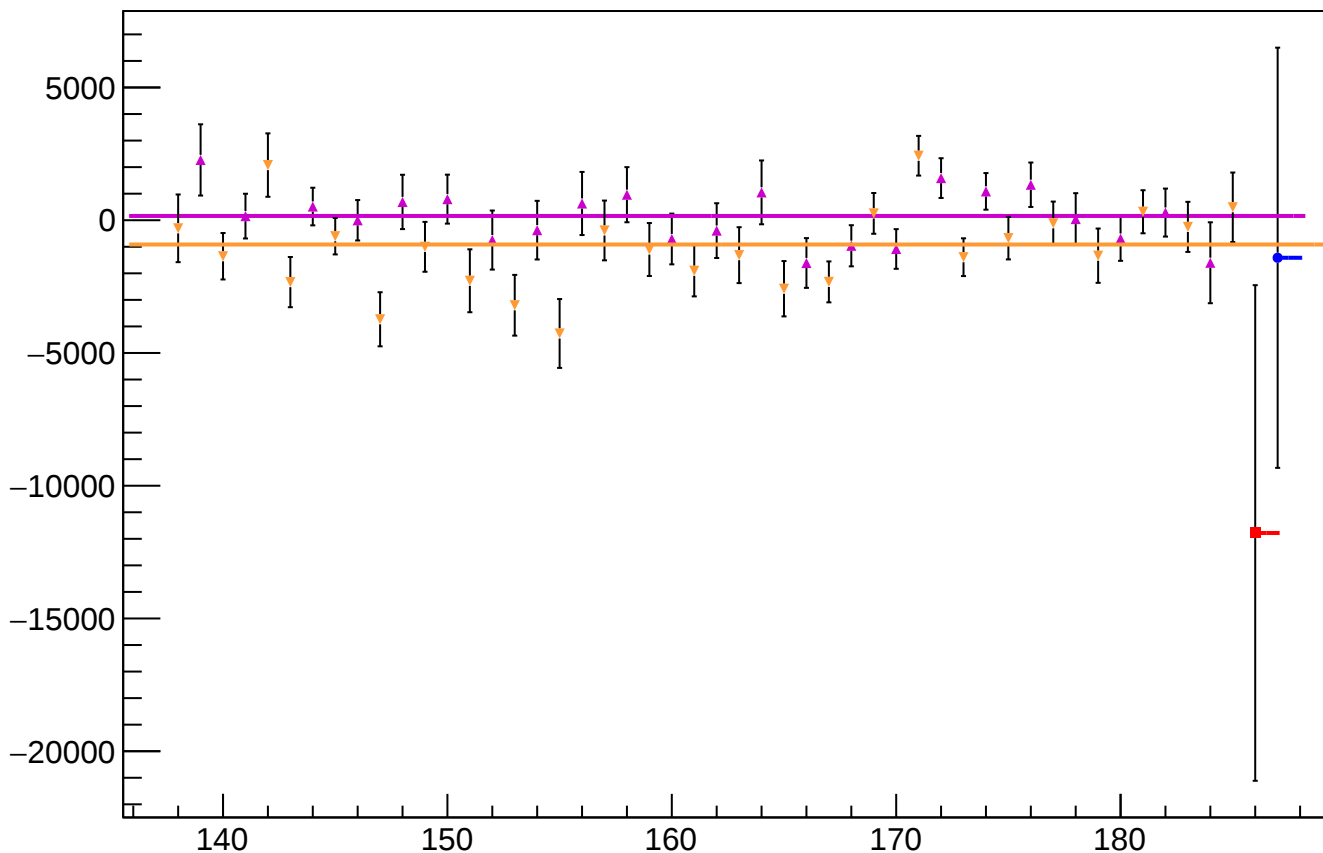
Right: 254.664 $\pm$ 0.301 χ^2 /NDF: 315126.3/1

In: 92.666 $\pm$ 0.016 χ^2 /NDF: 724257.7/23

Out: 91.866 $\pm$ 0.015 χ^2 /NDF: 1231037.1/25

All: 92.251 $\pm$ 0.011 χ^2 /NDF: 1956612.5/49

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1413.862 $\pm$ 7913.482 χ^2 /NDF: 0.0/0

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF:64.2/24

Right Out: -11780.130 $\pm$ 9334.043 χ^2 /NDF: 0.0/0

Left In: 161.076 $\pm$ 189.491 χ^2 /NDF:25.1/22

Left: -388.730 $\pm$ 132.499 χ^2 /NDF: 105.7/47

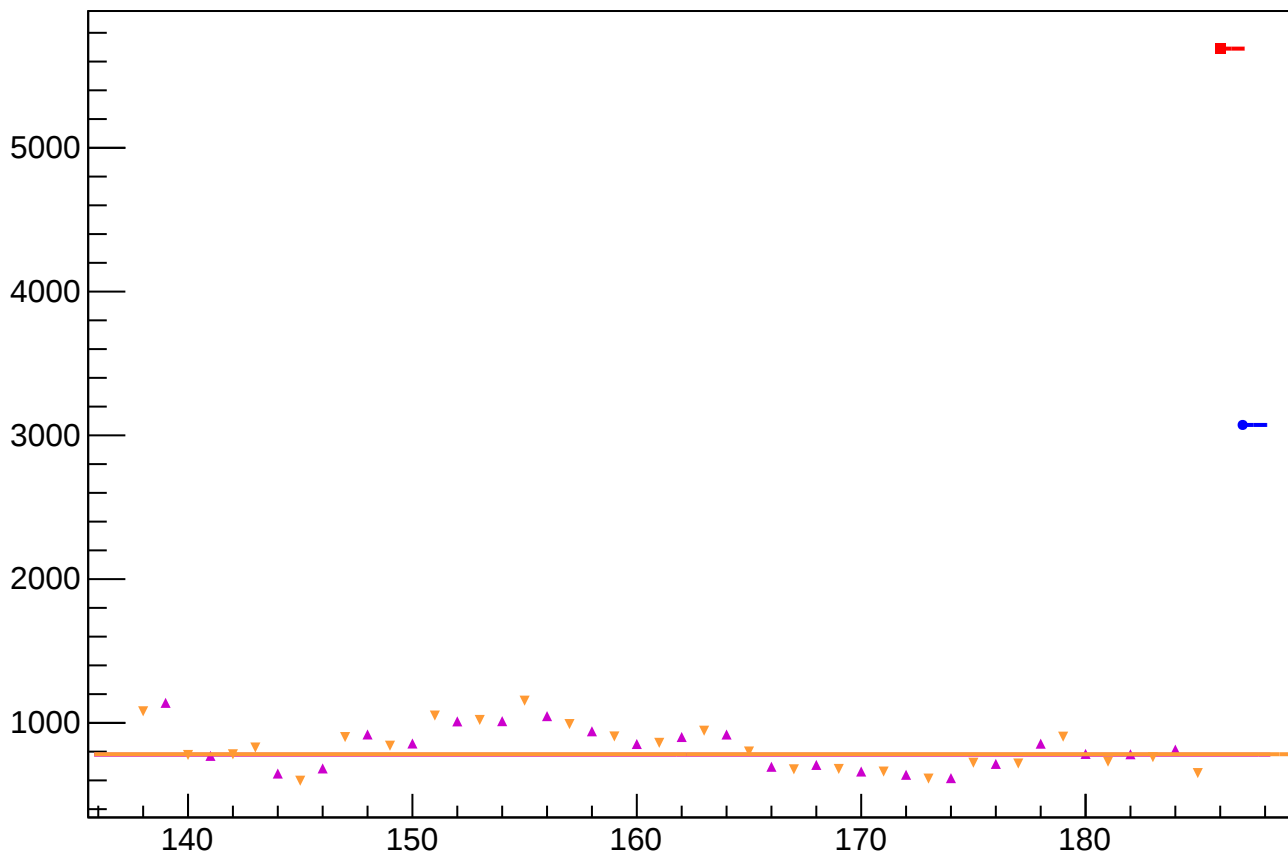
Right: -5748.951 $\pm$ 6036.116 χ^2 /NDF: 0.7/1

In: 160.174 $\pm$ 189.436 χ^2 /NDF:25.1/23

Out: -919.001 $\pm$ 185.304 χ^2 /NDF:65.5/25

All: -391.312 $\pm$ 132.467 χ^2 /NDF: 107.2/49

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 3072.444+/-5.596 χ^2/NDF : 0.0/0

Left Out: 782.042+/-0.131 χ^2/NDF :1130984.3/24

Right Out: 5690.010+/-6.600 χ^2/NDF : 0.0/0

Left In: 778.995+/-0.134 χ^2/NDF :980243.4/22

Left: 780.552+/-0.094 χ^2/NDF : 2111492.1/47

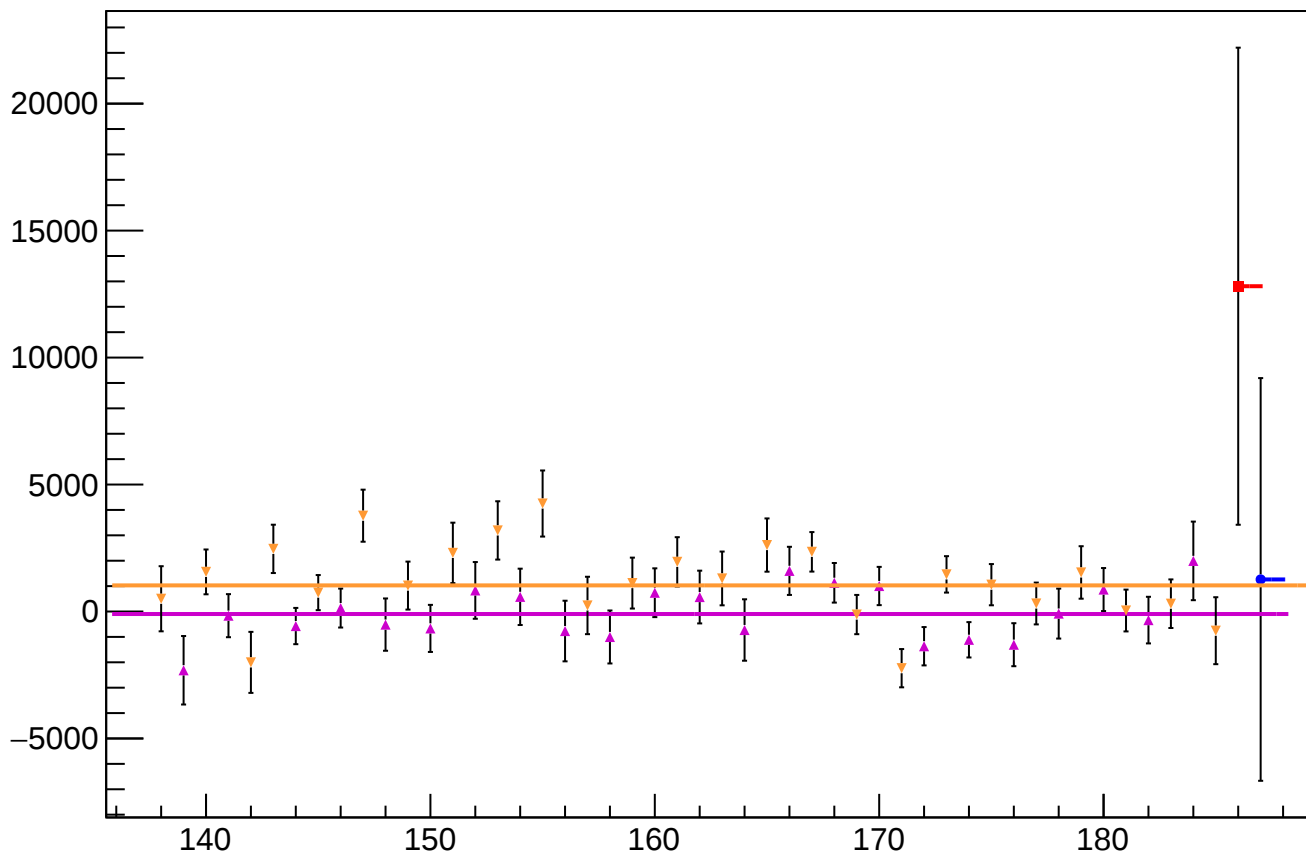
Right: 4167.089+/-4.268 χ^2/NDF : 91509.4/1

In: 780.309+/-0.134 χ^2/NDF :1148133.1/23

Out: 783.976+/-0.131 χ^2/NDF :1683726.7/25

All: 782.183+/-0.094 χ^2/NDF : 2832242.9/49

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: 12810.123 $\pm$ 9393.692 χ^2 /NDF: 0.0/0

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

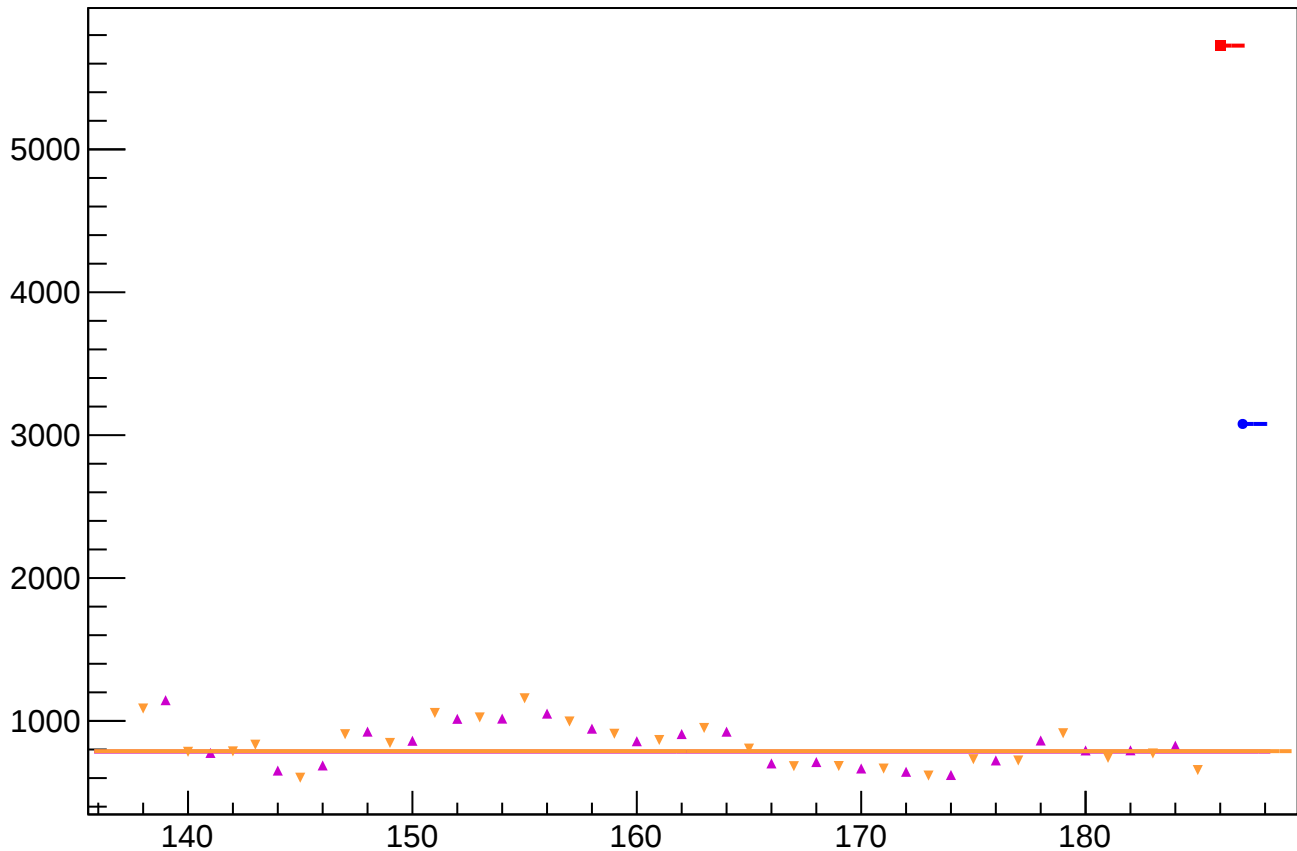
Right: 6067.149 $\pm$ 6059.189 χ^2 /NDF: 0.9/1

In: -97.901 $\pm$ 190.972 χ^2 /NDF:25.4/23

Out: 1033.521 $\pm$ 186.773 χ^2 /NDF:61.7/25

All: 480.383 $\pm$ 133.528 χ^2 /NDF: 105.1/49

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: 5726.201 $\pm$ 6.642 χ^2 /NDF: 0.0/0

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

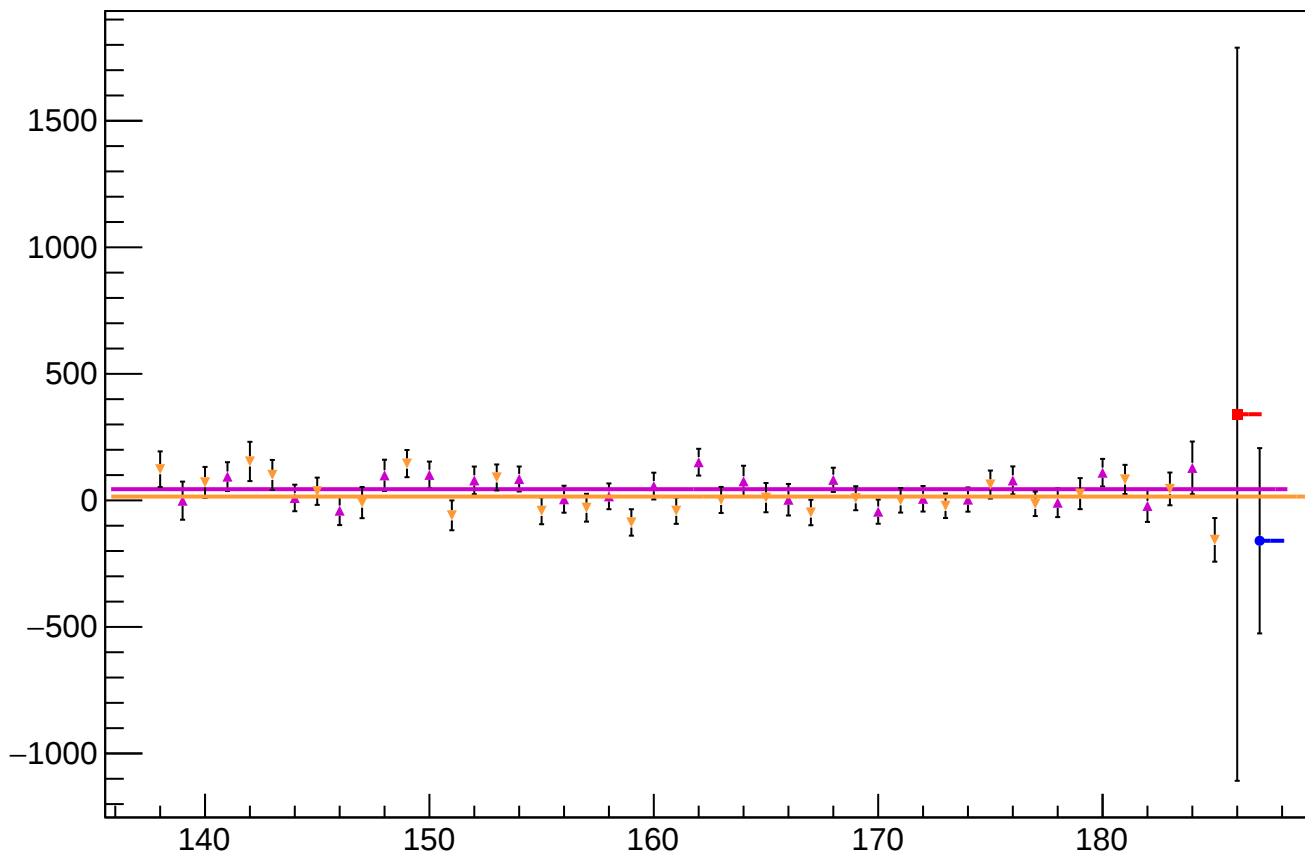
Right: 4180.082 $\pm$ 4.284 χ^2 /NDF: 92784.4/1

In: 786.820 $\pm$ 0.135 χ^2 /NDF:1132492.3/23

Out: 790.394 $\pm$ 0.132 χ^2 /NDF:1666131.0/25

All: 788.647 $\pm$ 0.094 χ^2 /NDF: 2798981.2/49

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: -159.537+/-366.124 χ^2/NDF : 0.0/0

Left Out: 15.099+/-11.154 χ^2/NDF :34.2/24

Right Out: 340.459+/-1448.453 χ^2/NDF : 0.0/0

Left In: 44.297+/-11.530 χ^2/NDF :22.3/22

Left: 29.215+/-8.017 χ^2/NDF : 59.8/47

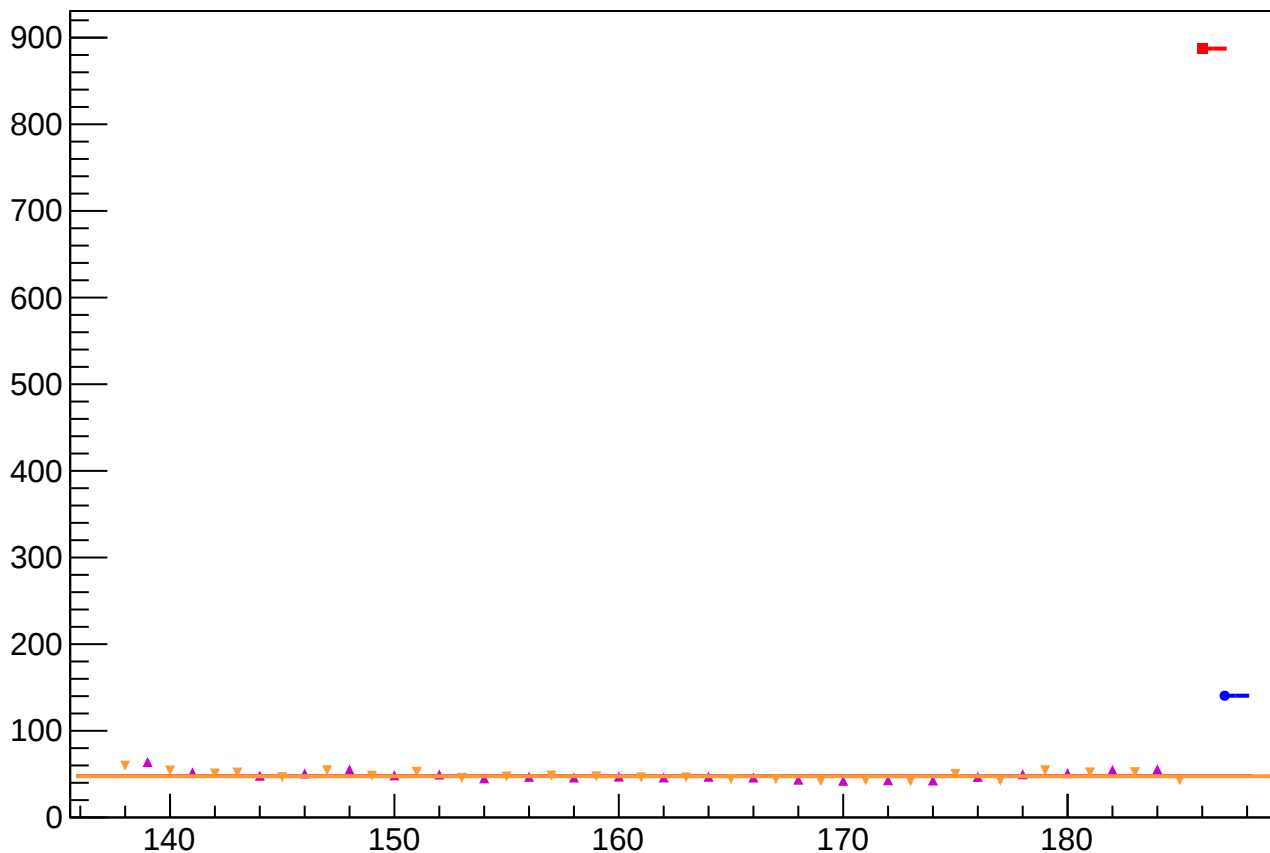
Right: -129.509+/-354.960 χ^2/NDF : 0.1/1

In: 44.095+/-11.524 χ^2/NDF :22.6/23

Out: 15.118+/-11.154 χ^2/NDF :34.2/25

All: 29.134+/-8.015 χ^2/NDF : 60.1/49

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: 887.366 $\pm$ 1.024 χ^2 /NDF: 0.0/0

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

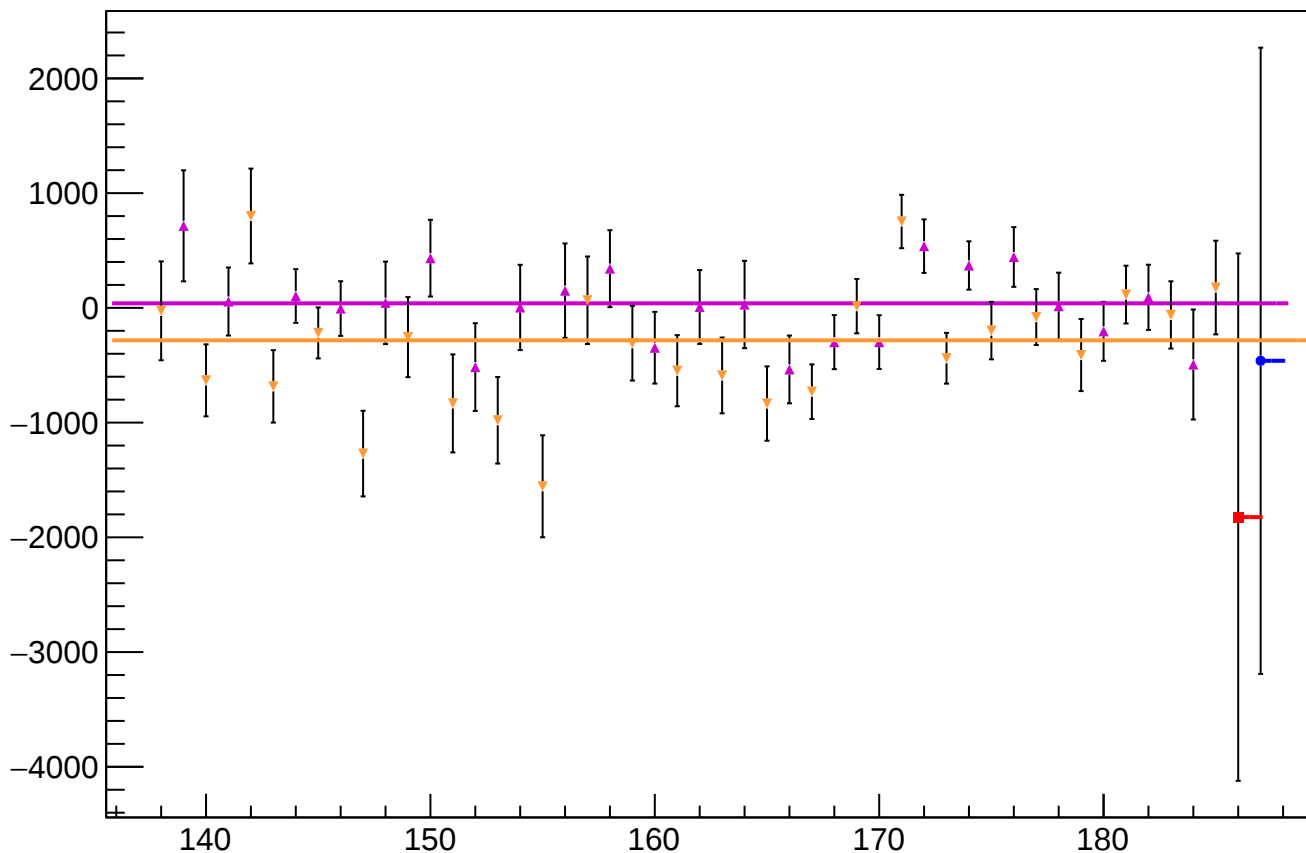
Right: 185.367 $\pm$ 0.251 χ^2 /NDF: 499795.1/1

In: 47.938 $\pm$ 0.008 χ^2 /NDF:409789.5/23

Out: 47.636 $\pm$ 0.008 χ^2 /NDF:985117.9/25

All: 47.782 $\pm$ 0.006 χ^2 /NDF: 1395616.0/49

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: -1823.674 $\pm$ 2298.233 χ^2 /NDF: 0.0/0

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

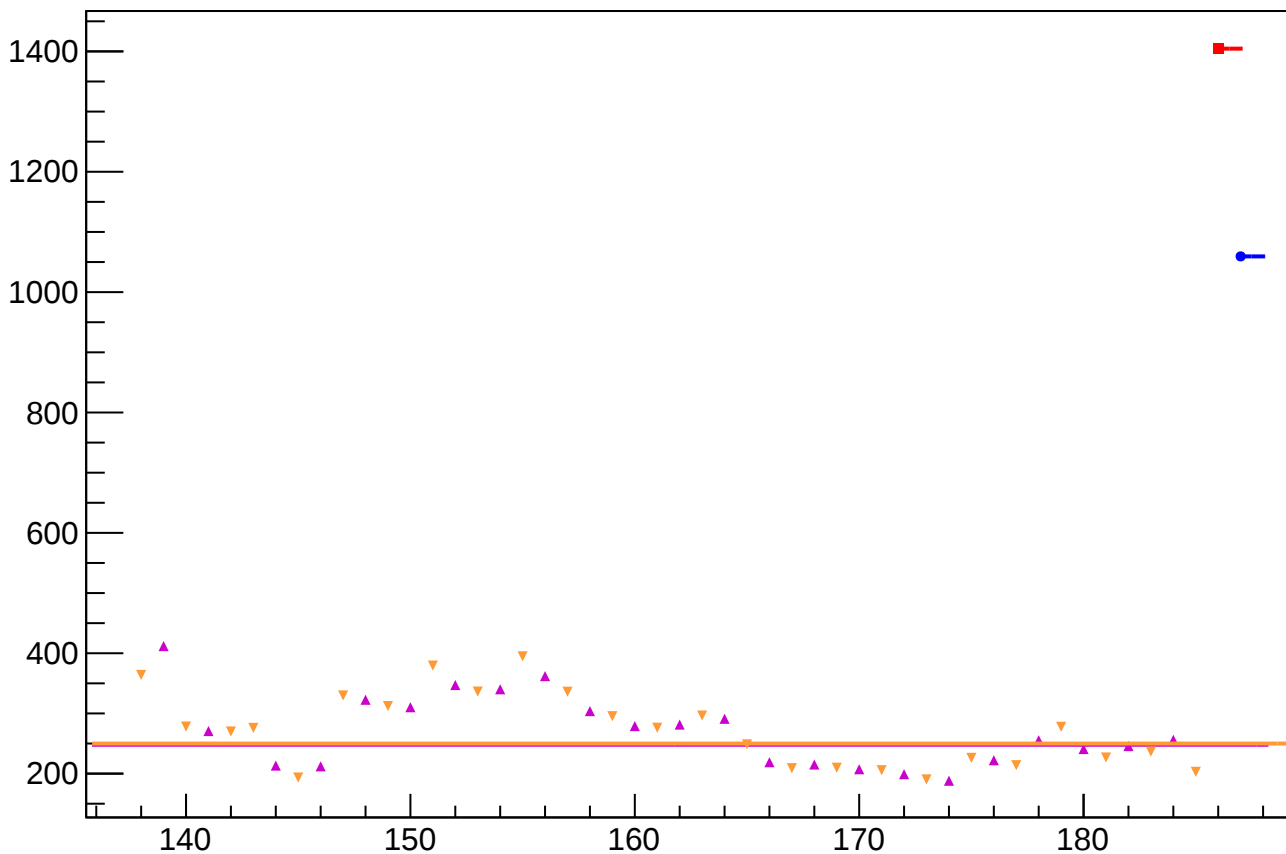
Right: -1258.406 $\pm$ 1757.935 χ^2 /NDF: 0.1/1

In: 39.184 $\pm$ 60.744 χ^2 /NDF:27.6/23

Out: -283.837 $\pm$ 59.670 χ^2 /NDF:67.0/25

All: -125.208 $\pm$ 42.568 χ^2 /NDF: 108.9/49

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: 1404.564 $\pm$ 1.625 χ^2 /NDF: 0.0/0

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

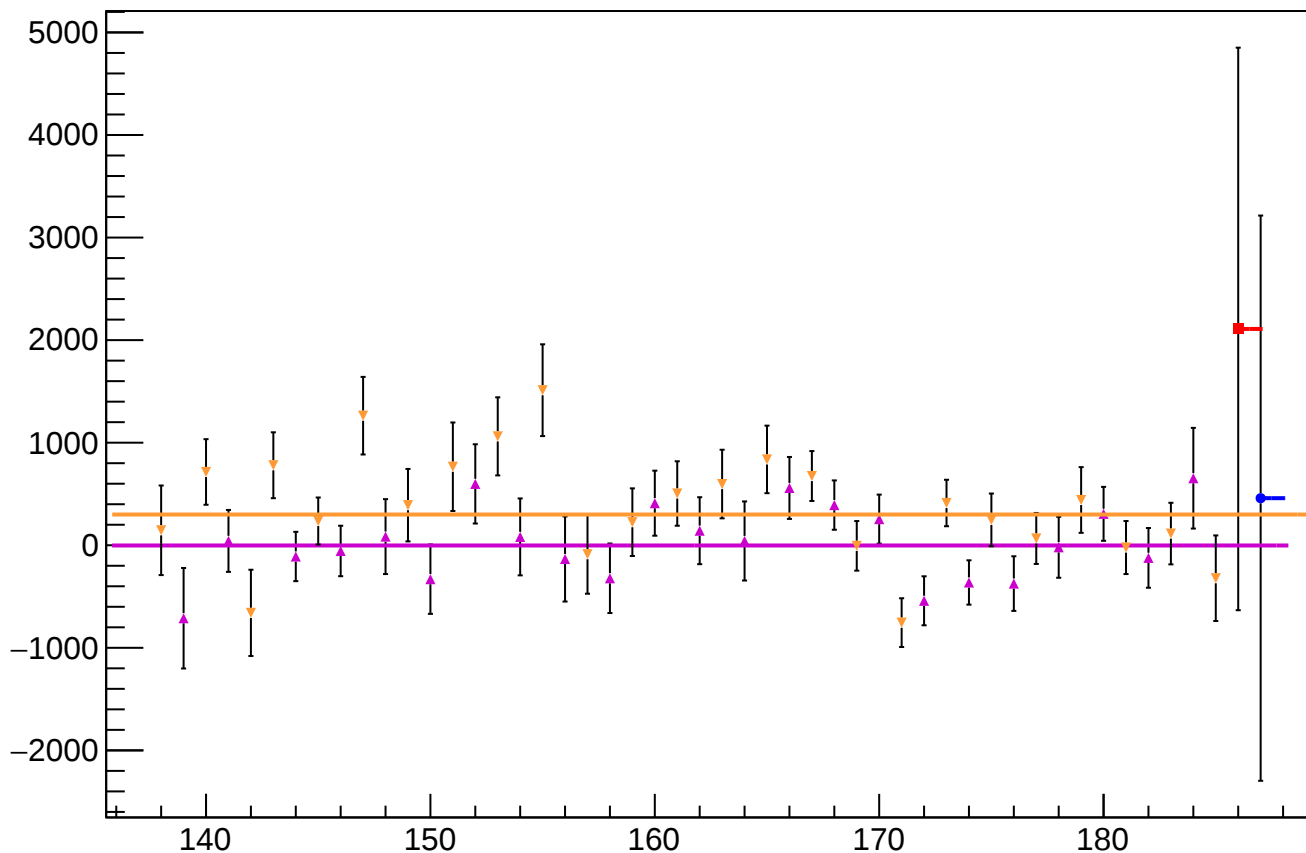
Right: 1261.346 $\pm$ 1.243 χ^2 /NDF: 18718.7/1

In: 248.319 $\pm$ 0.043 χ^2 /NDF:1587581.6/23

Out: 250.735 $\pm$ 0.042 χ^2 /NDF:2118655.3/25

All: 249.548 $\pm$ 0.030 χ^2 /NDF: 3707846.8/49

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: 2109.016 $\pm$ 2742.402 χ^2 /NDF: 0.0/0

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

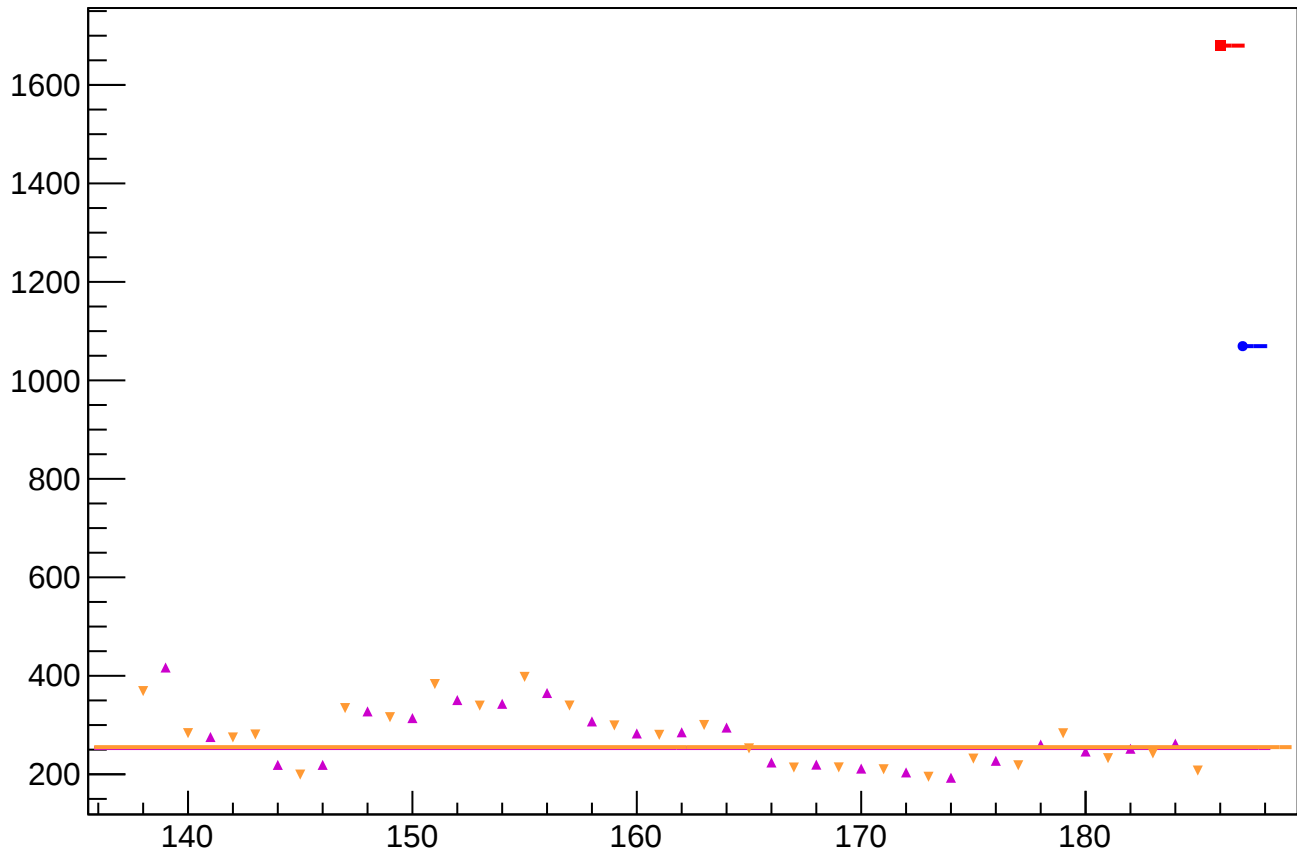
Right: 1287.981 $\pm$ 1943.819 χ^2 /NDF: 0.2/1

In: -1.952 $\pm$ 61.989 χ^2 /NDF:29.2/23

Out: 300.453 $\pm$ 60.845 χ^2 /NDF:62.9/25

All: 152.068 $\pm$ 43.423 χ^2 /NDF: 104.2/49

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 1069.513 $\pm$ 1.949 χ^2 /NDF: 0.0/0

Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF:1542039.5/24

Right Out: 1679.837 $\pm$ 1.939 χ^2 /NDF: 0.0/0

Left In: 253.287 $\pm$ 0.044 χ^2 /NDF:1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2 /NDF: 2884606.5/47

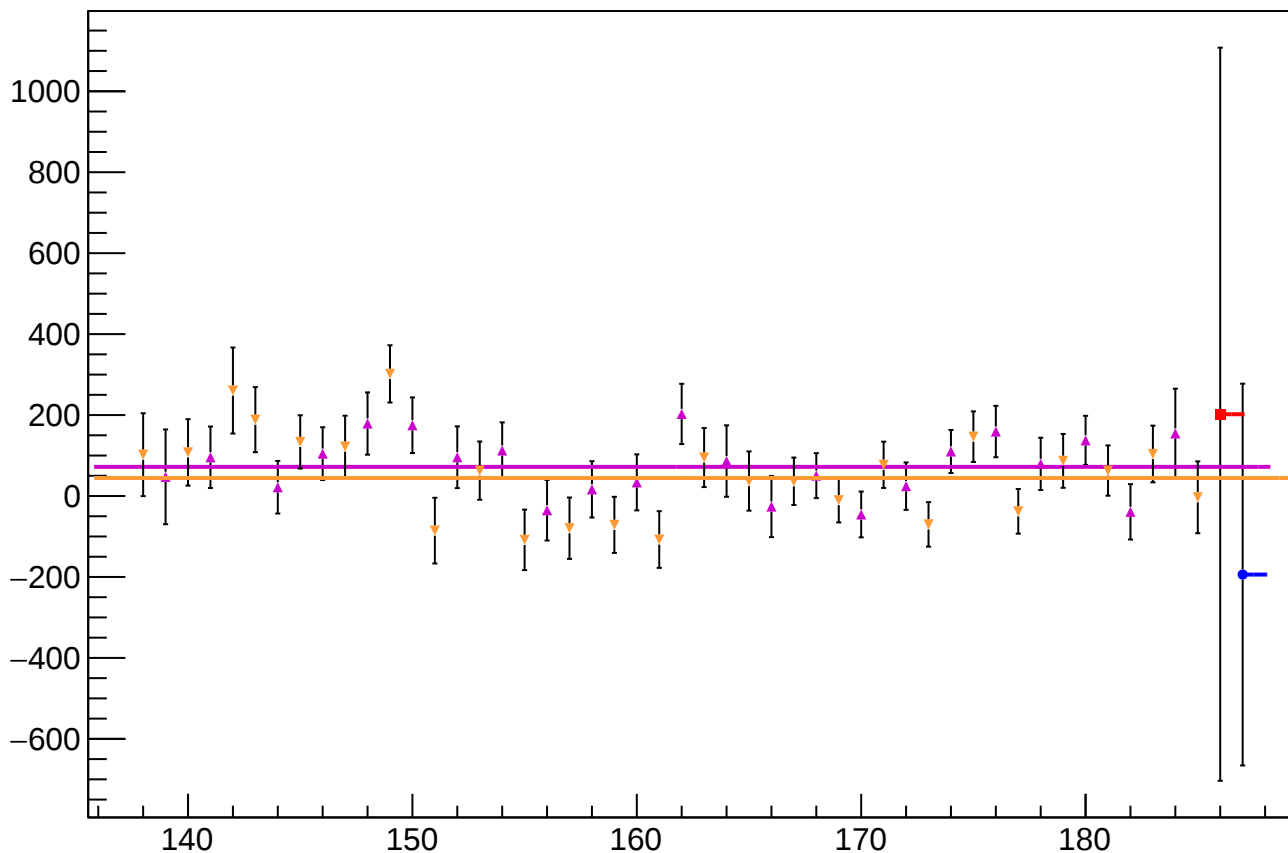
Right: 1376.140 $\pm$ 1.374 χ^2 /NDF: 49291.1/1

In: 253.700 $\pm$ 0.044 χ^2 /NDF:1517050.0/23

Out: 255.837 $\pm$ 0.043 χ^2 /NDF:2081552.4/25

All: 254.788 $\pm$ 0.031 χ^2 /NDF: 3599812.1/49

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: 202.060+/-905.673 χ^2/NDF : 0.0/0

Left In: 72.037+/-14.296 χ^2/NDF : 25.3/22

Left: 57.859+/-9.938 χ^2/NDF : 81.1/47

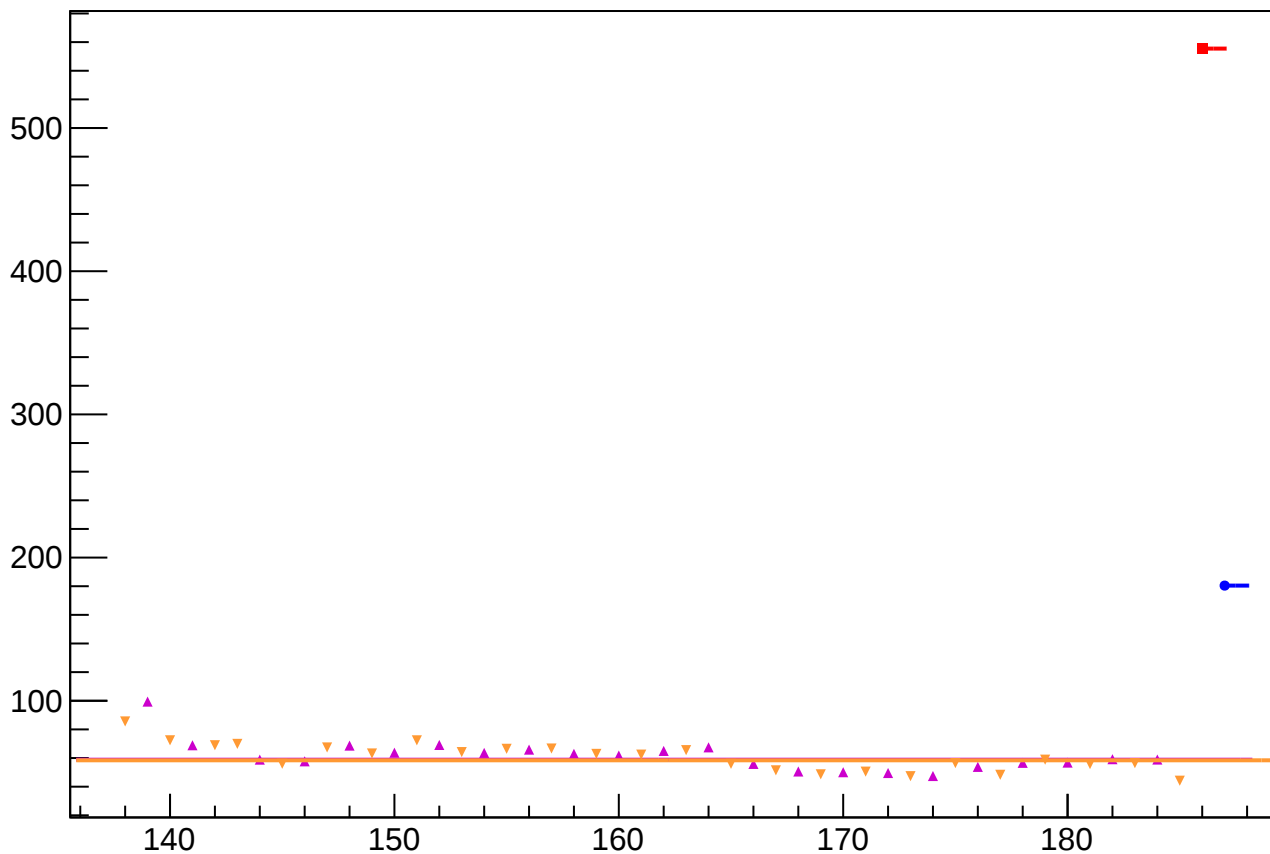
Right: -109.569+/-418.334 χ^2/NDF : 0.2/1

In: 71.793+/-14.290 χ^2/NDF : 25.6/23

Out: 44.639+/-13.823 χ^2/NDF : 53.9/25

All: 57.765+/-9.935 χ^2/NDF : 81.4/49

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: 555.480 $\pm$ 0.640 χ^2 /NDF: 0.0/0

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

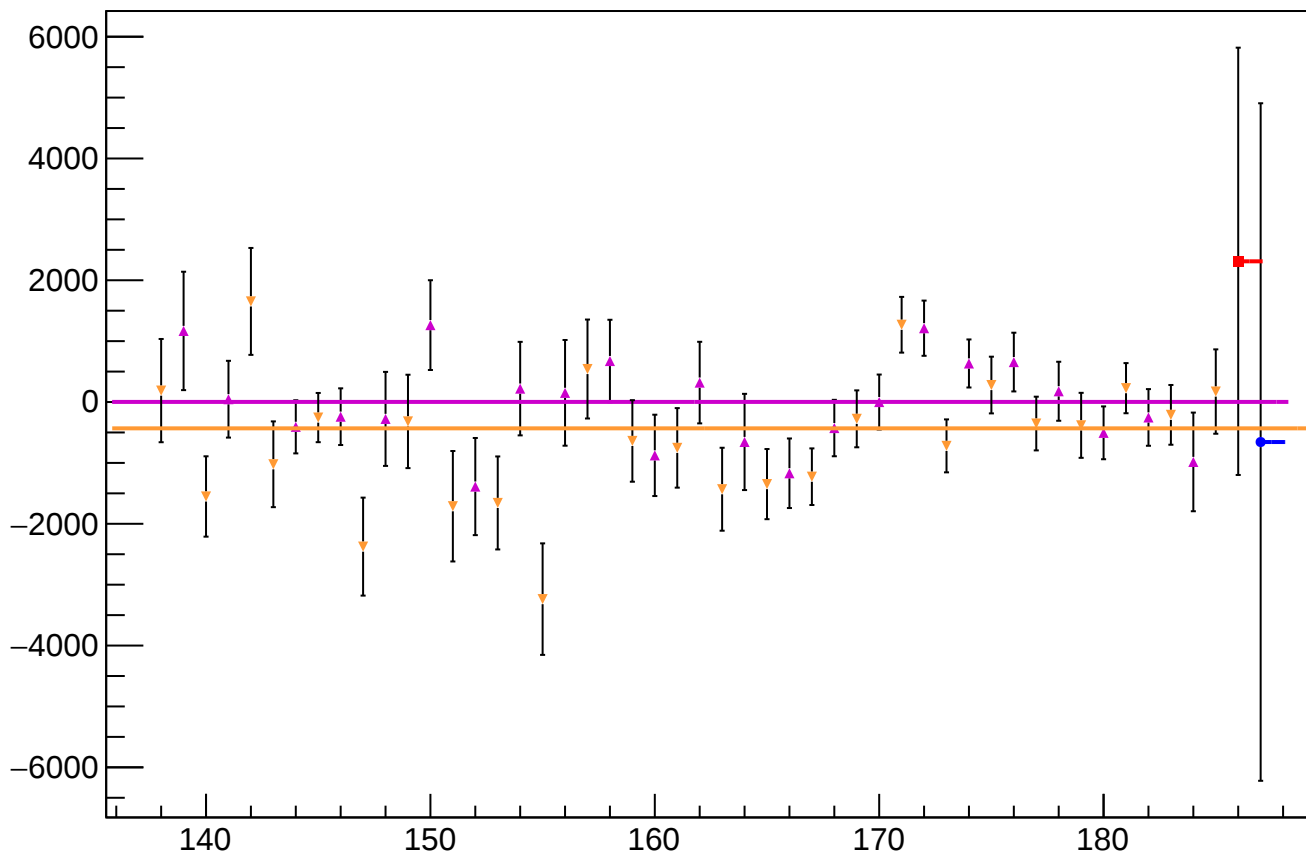
Right: 260.453 $\pm$ 0.296 χ^2 /NDF: 269792.9/1

In: 58.951 $\pm$ 0.010 χ^2 /NDF: 812726.6/23

Out: 58.539 $\pm$ 0.010 χ^2 /NDF: 1392370.9/25

All: 58.738 $\pm$ 0.007 χ^2 /NDF: 2205959.6/49

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: 2310.998+/-3509.061 χ^2/NDF : 0.0/0

Left In: 1.825+/-116.459 χ^2/NDF : 32.3/22

Left: -219.109+/-81.614 χ^2/NDF : 98.8/47

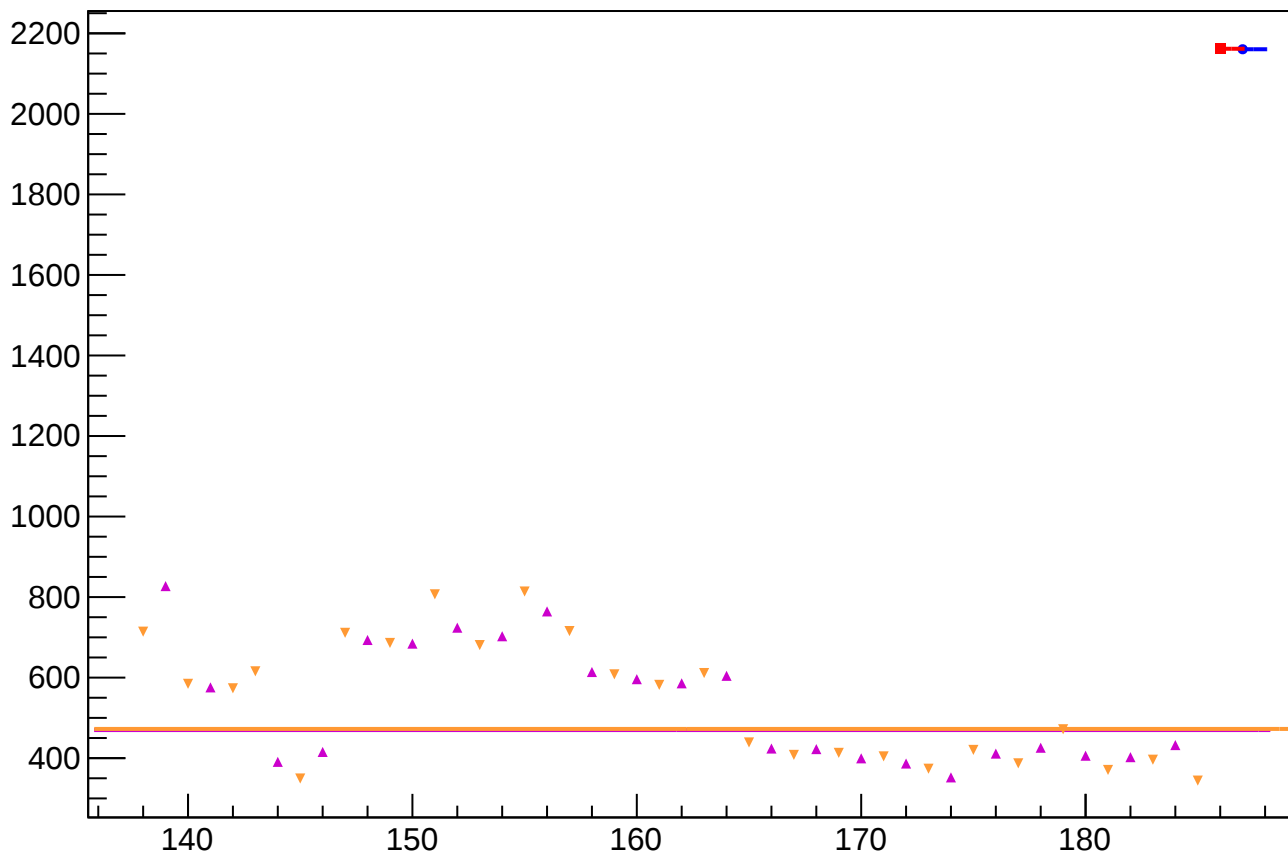
Right: 1466.415+/-2968.099 χ^2/NDF : 0.2/1

In: 1.537+/-116.433 χ^2/NDF : 32.3/23

Out: -429.417+/-114.347 χ^2/NDF : 60.0/25

All: -217.835+/-81.583 χ^2/NDF : 99.3/49

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 2160.492+/-3.934 χ^2/NDF : 0.0/0

Left Out: 472.569+/-0.081 χ^2/NDF :2508168.9/24

Right Out: 2161.707+/-2.481 χ^2/NDF : 0.0/0

Left In: 469.761+/-0.082 χ^2/NDF :2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

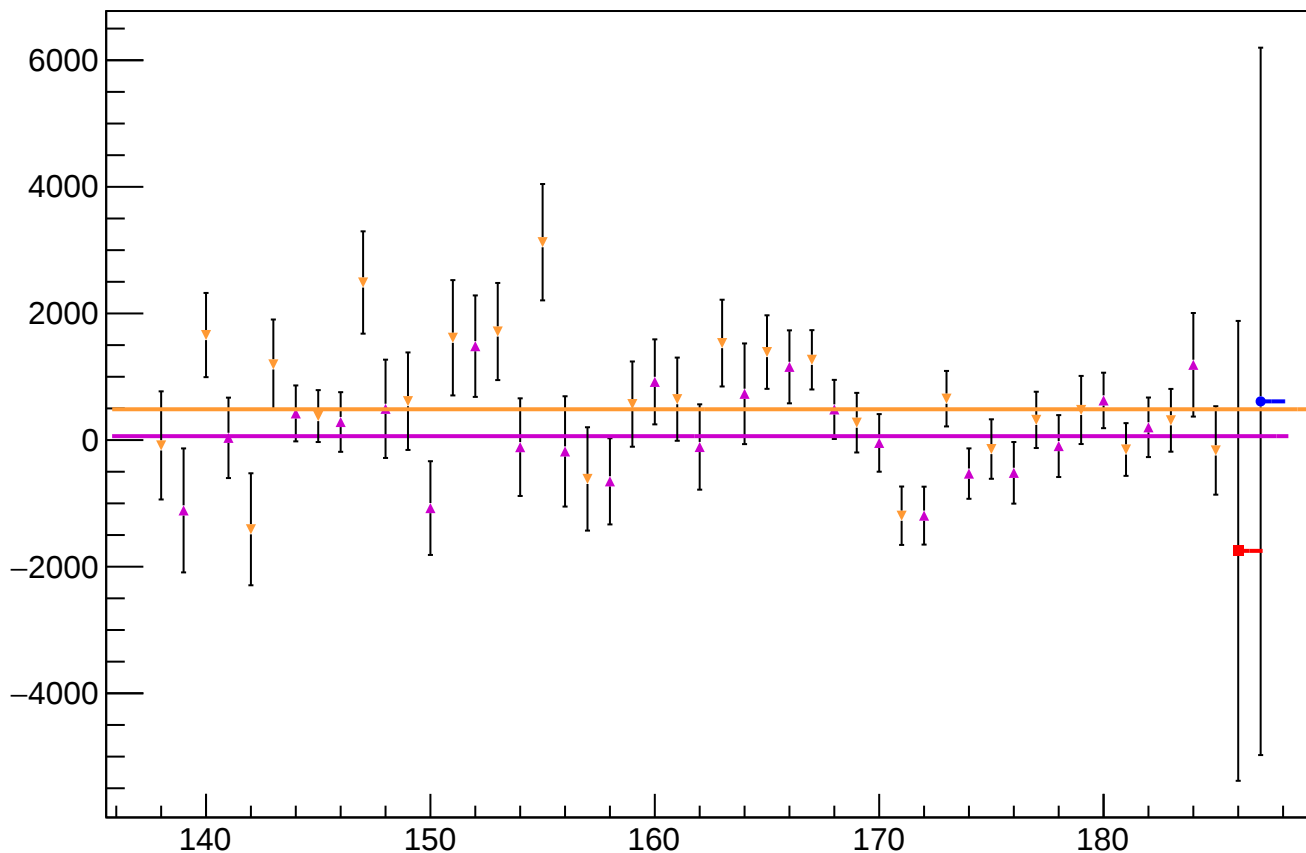
Right: 2161.361+/-2.099 χ^2/NDF : 0.1/1

In: 470.502+/-0.082 χ^2/NDF :2301472.8/23

Out: 474.362+/-0.081 χ^2/NDF :2971100.7/25

All: 472.467+/-0.058 χ^2/NDF : 5273692.8/49

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: -1750.016 $\pm$ 3632.106 χ^2 /NDF: 0.0/0

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

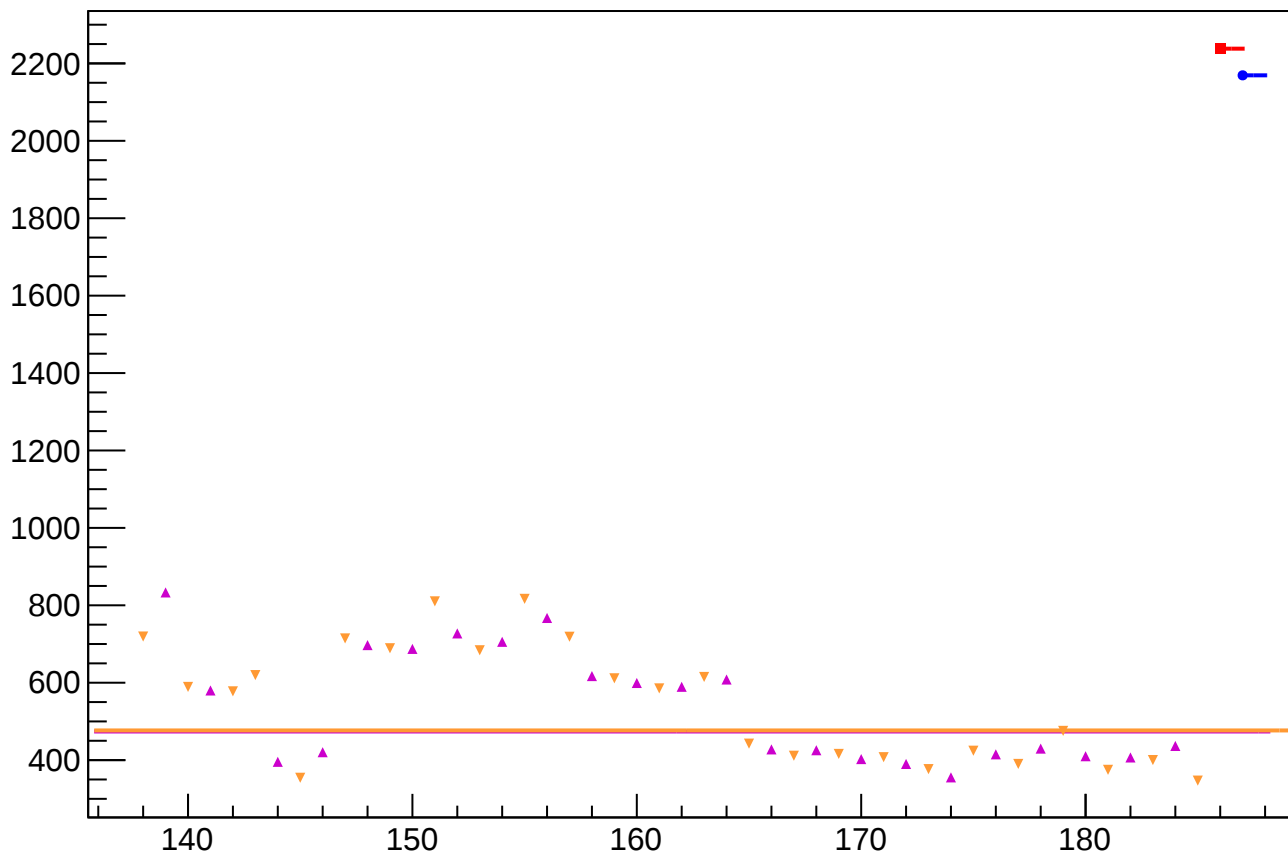
Right: -1048.528 $\pm$ 3045.186 χ^2 /NDF: 0.1/1

In: 62.018 $\pm$ 117.423 χ^2 /NDF:31.2/23

Out: 484.392 $\pm$ 115.288 χ^2 /NDF:56.4/25

All: 277.079 $\pm$ 82.265 χ^2 /NDF: 94.2/49

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: 2238.098+/-2.568 χ^2 /NDF: 0.0/0

Left In: 473.983+/-0.083 χ^2 /NDF:2087113.7/22

Left: 475.361+/-0.058 χ^2 /NDF: 4560392.0/47

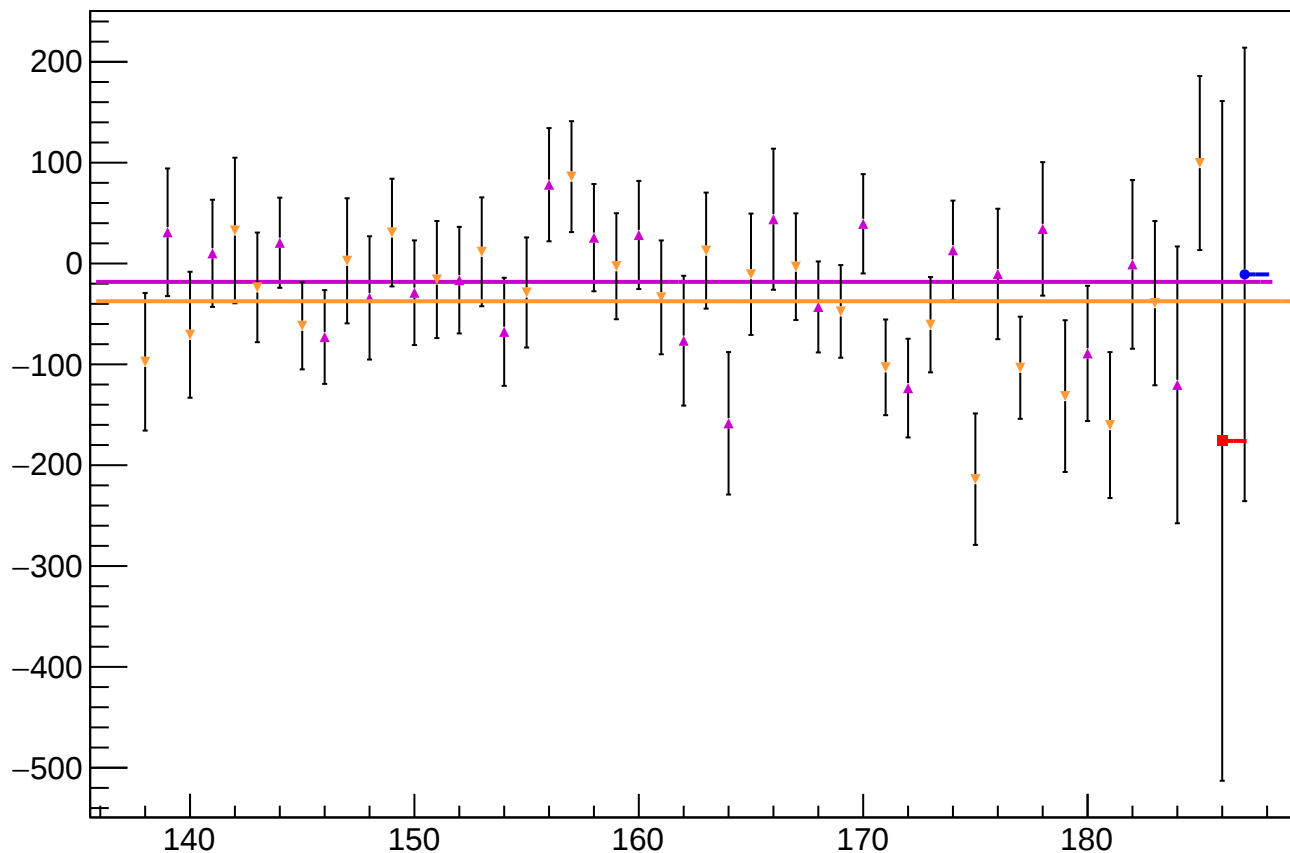
Right: 2217.633+/-2.153 χ^2 /NDF: 213.7/1

In: 474.732+/-0.083 χ^2 /NDF:2271160.5/23

Out: 478.465+/-0.082 χ^2 /NDF:2942626.6/25

All: 476.633+/-0.058 χ^2 /NDF: 5214816.0/49

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -10.803 ± 224.840 $\chi^2/\text{NDF}: 0.0/0$

Left Out: -37.413 ± 11.390 $\chi^2/\text{NDF}: 30.5/24$

Right Out: -175.929 ± 337.026 $\chi^2/\text{NDF}: 0.0/0$

Left In: -18.210 ± 11.788 $\chi^2/\text{NDF}: 23.0/22$

Left: -28.141 ± 8.191 $\chi^2/\text{NDF}: 54.8/47$

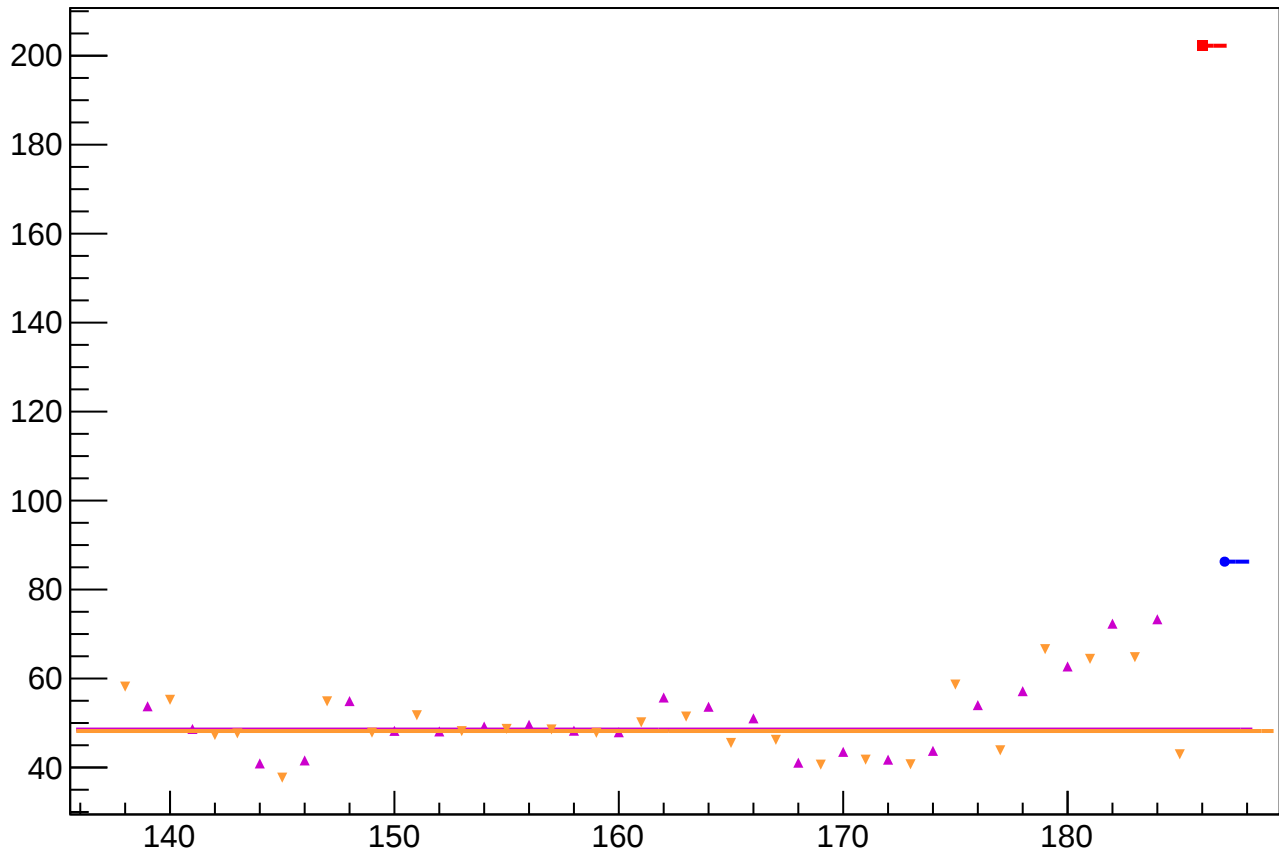
Right: -61.660 ± 187.038 $\chi^2/\text{NDF}: 0.2/1$

In: -18.190 ± 11.772 $\chi^2/\text{NDF}: 23.0/23$

Out: -37.571 ± 11.383 $\chi^2/\text{NDF}: 30.6/25$

All: -28.205 ± 8.183 $\chi^2/\text{NDF}: 55.0/49$

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: 202.245 $\pm$ 0.238 χ^2 /NDF: 0.0/0

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

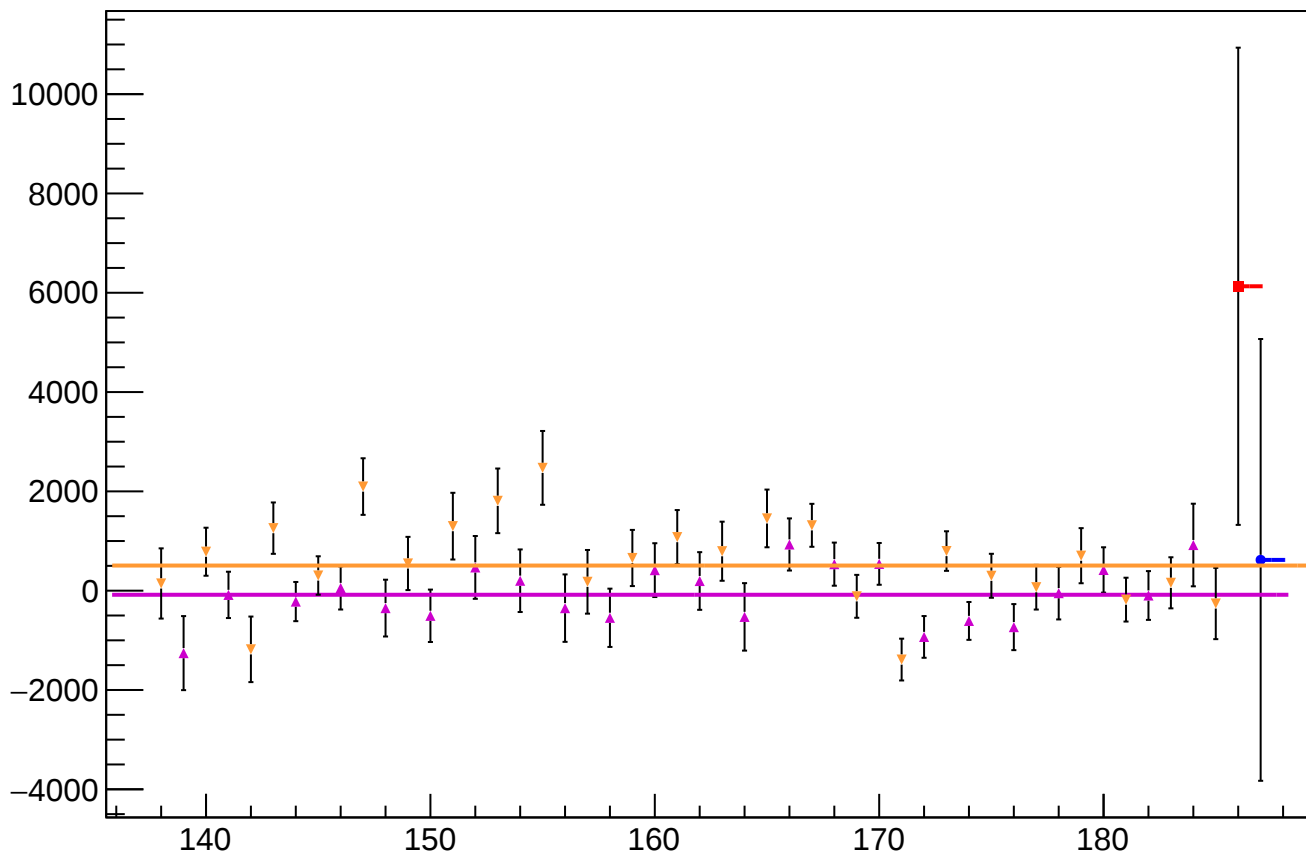
Right: 121.989 $\pm$ 0.132 χ^2 /NDF: 163885.1/1

In: 48.630 $\pm$ 0.008 χ^2 /NDF: 731546.4/23

Out: 48.375 $\pm$ 0.008 χ^2 /NDF: 1167548.7/25

All: 48.498 $\pm$ 0.006 χ^2 /NDF: 1899579.4/49

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 619.729+/-4448.700 χ^2/NDF : 0.0/0

Left Out: 506.205+/-103.468 χ^2/NDF : 65.7/24

Right Out: 6130.555+/-4805.433 χ^2/NDF : 0.0/0

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

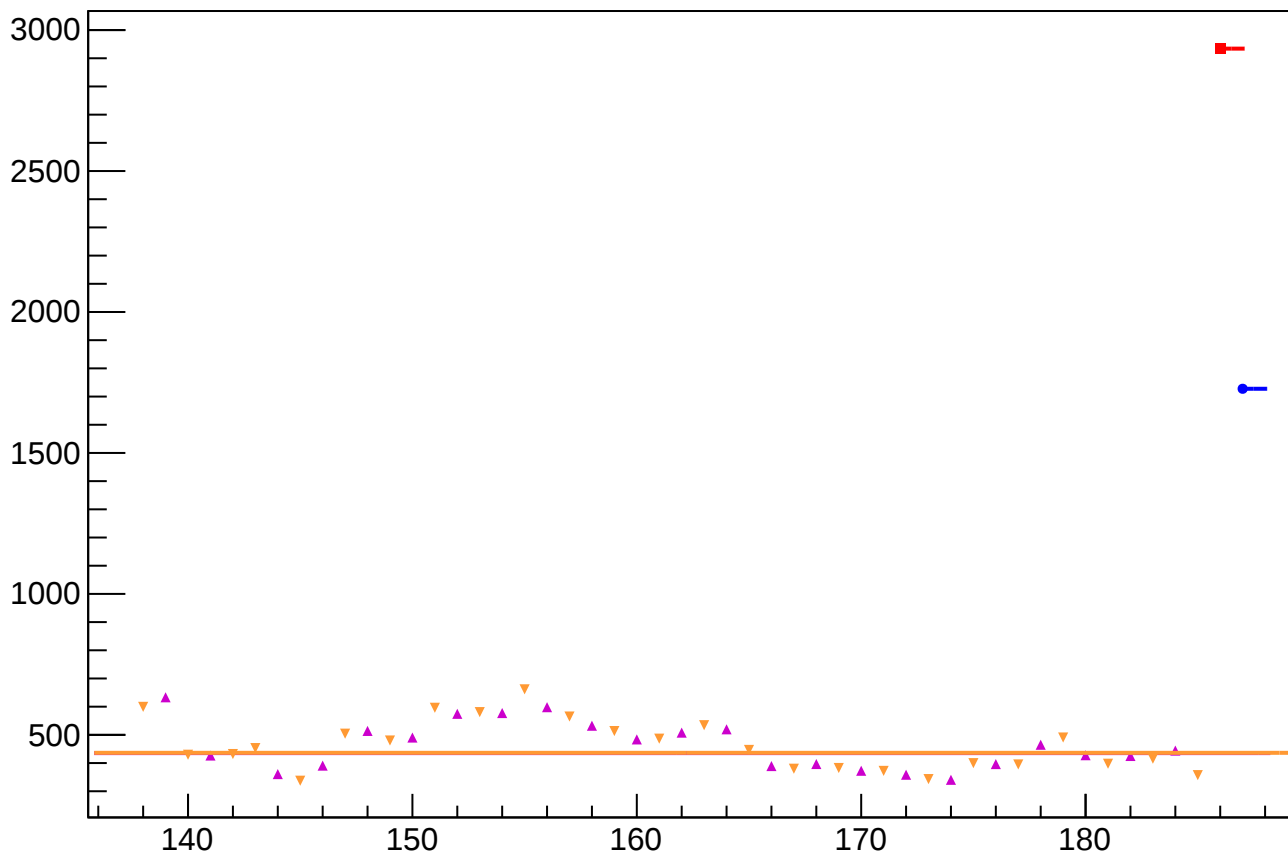
Right: 3163.024+/-3264.544 χ^2/NDF : 0.7/1

In: -82.023+/-105.905 χ^2/NDF : 25.4/23

Out: 508.811+/-103.444 χ^2/NDF : 67.1/25

All: 220.340+/-74.001 χ^2/NDF : 108.4/49

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: 2934.195+/-3.398 χ^2/NDF : 0.0/0

Left In: 435.275+/-0.075 χ^2/NDF :1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

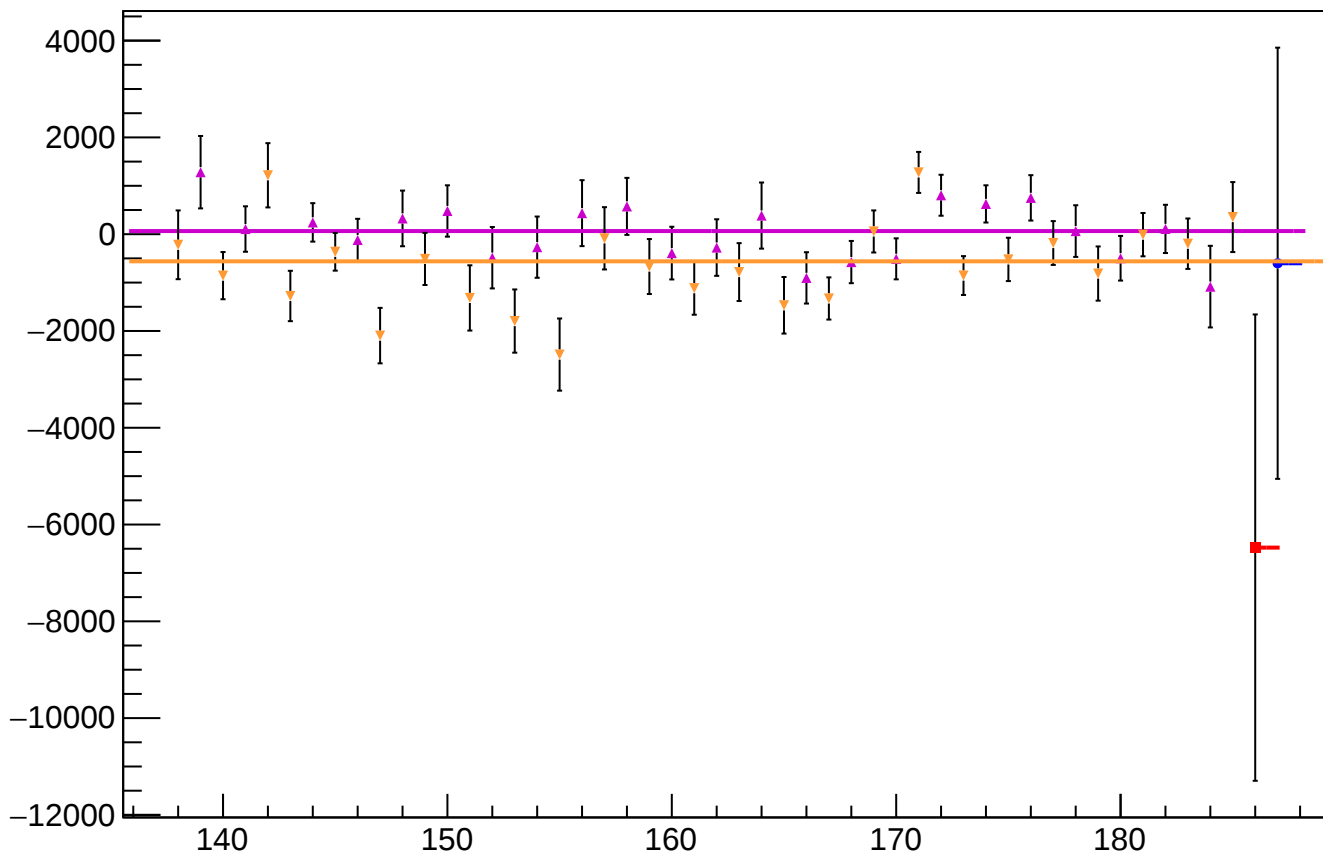
Right: 2284.479+/-2.308 χ^2/NDF : 67894.2/1

In: 436.007+/-0.075 χ^2/NDF :1196404.4/23

Out: 437.459+/-0.073 χ^2/NDF :1719494.9/25

All: 436.750+/-0.052 χ^2/NDF : 2916091.5/49

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: -6476.893 $\pm$ 4818.554 χ^2 /NDF: 0.0/0

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

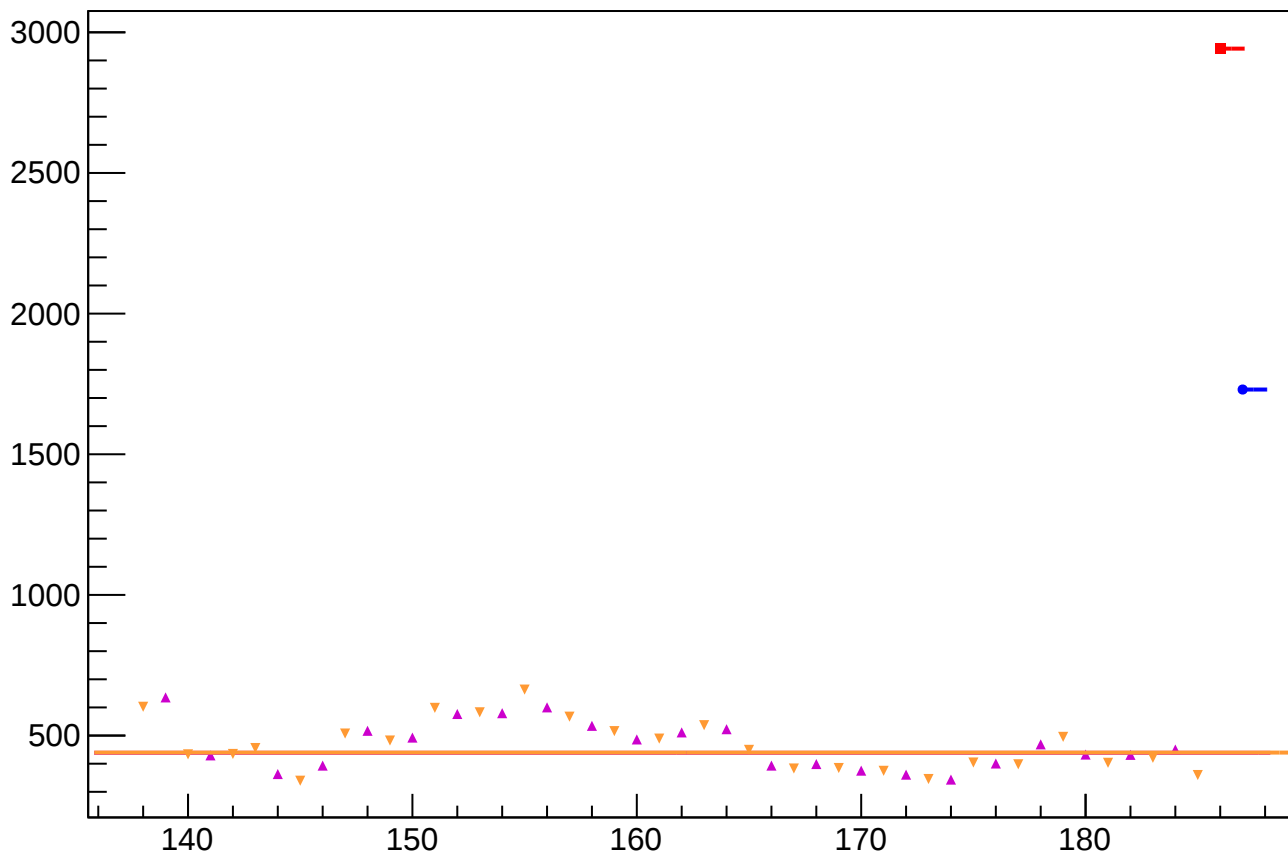
Right: -3308.924 $\pm$ 3271.207 χ^2 /NDF: 0.8/1

In: 64.213 $\pm$ 106.677 χ^2 /NDF:25.2/23

Out: -563.450 $\pm$ 104.183 χ^2 /NDF:63.3/25

All: -257.042 $\pm$ 74.535 χ^2 /NDF: 106.2/49

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: 2942.010+/-3.407 χ^2/NDF : 0.0/0

Left In: 438.548+/-0.075 χ^2/NDF : 1013071.4/22

Left: 439.049+/-0.053 χ^2/NDF : 2176510.4/47

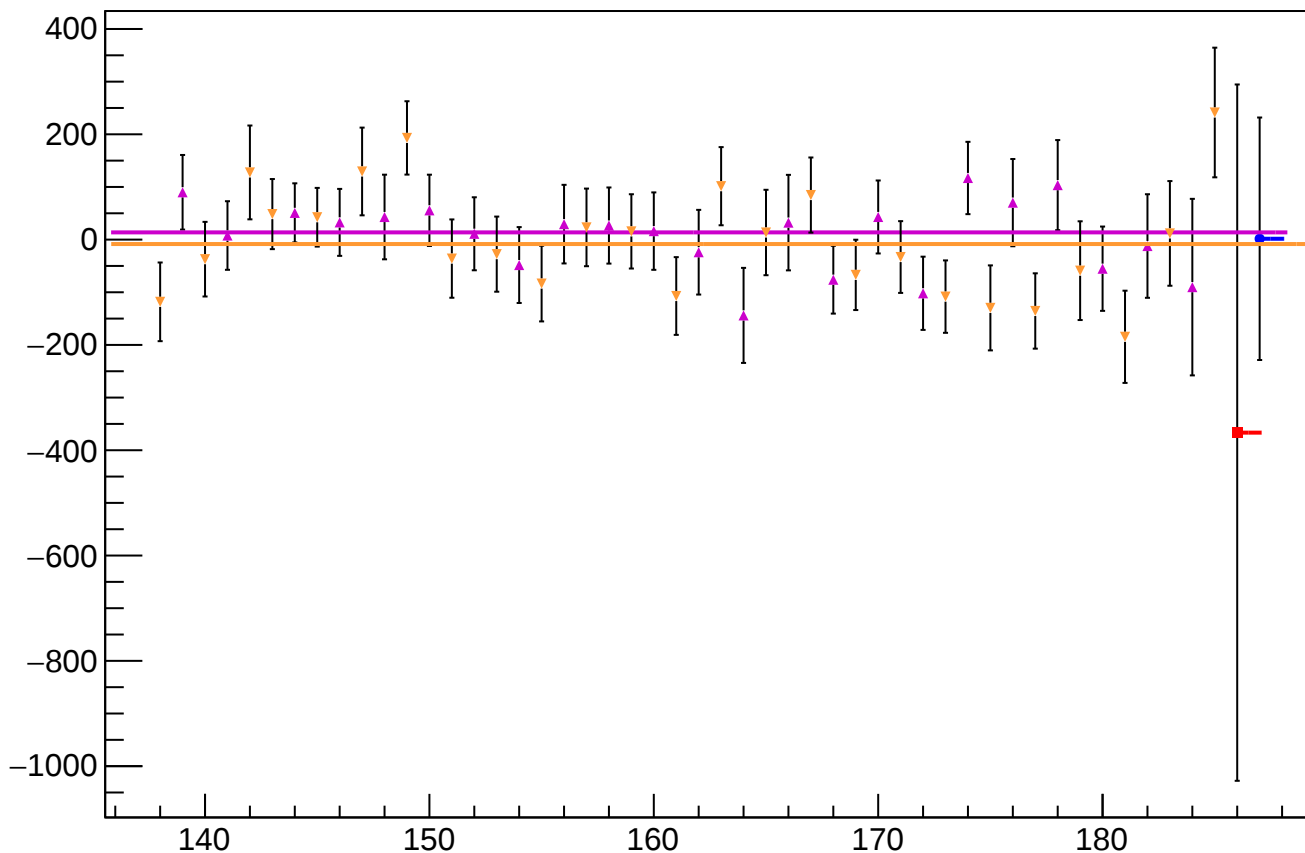
Right: 2288.650+/-2.313 χ^2/NDF : 68204.1/1

In: 439.288+/-0.075 χ^2/NDF : 1181065.7/23

Out: 440.697+/-0.074 χ^2/NDF : 1702535.1/25

All: 440.009+/-0.053 χ^2/NDF : 2883779.3/49

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: -366.581 $\pm$ 661.204 χ^2 /NDF: 0.0/0

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

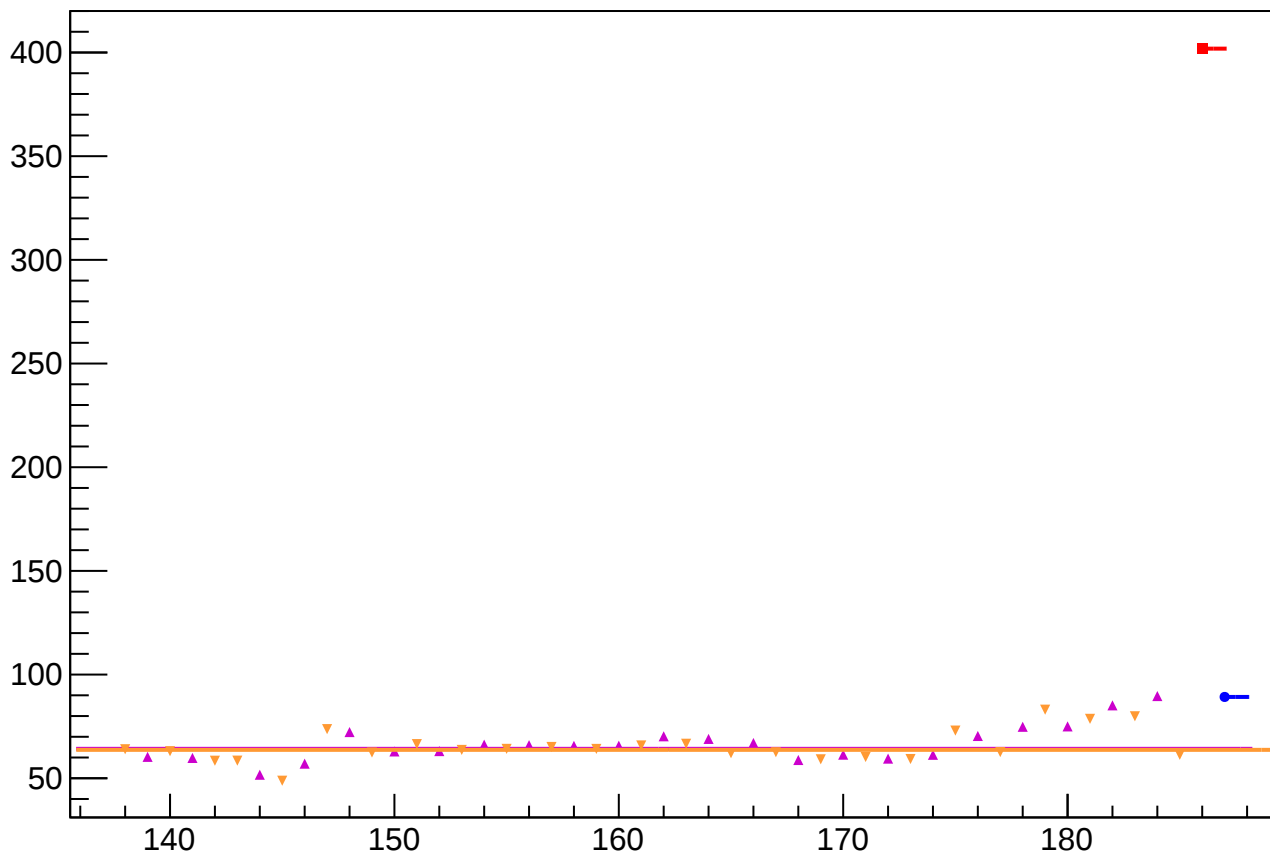
Right: -38.202 $\pm$ 217.446 χ^2 /NDF: 0.3/1

In: 13.669 $\pm$ 15.443 χ^2 /NDF:16.3/23

Out: -8.599 $\pm$ 14.931 χ^2 /NDF:41.9/25

All: 2.160 $\pm$ 10.734 χ^2 /NDF: 59.2/49

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: 401.865 $\pm$ 0.468 χ^2 /NDF: 0.0/0

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

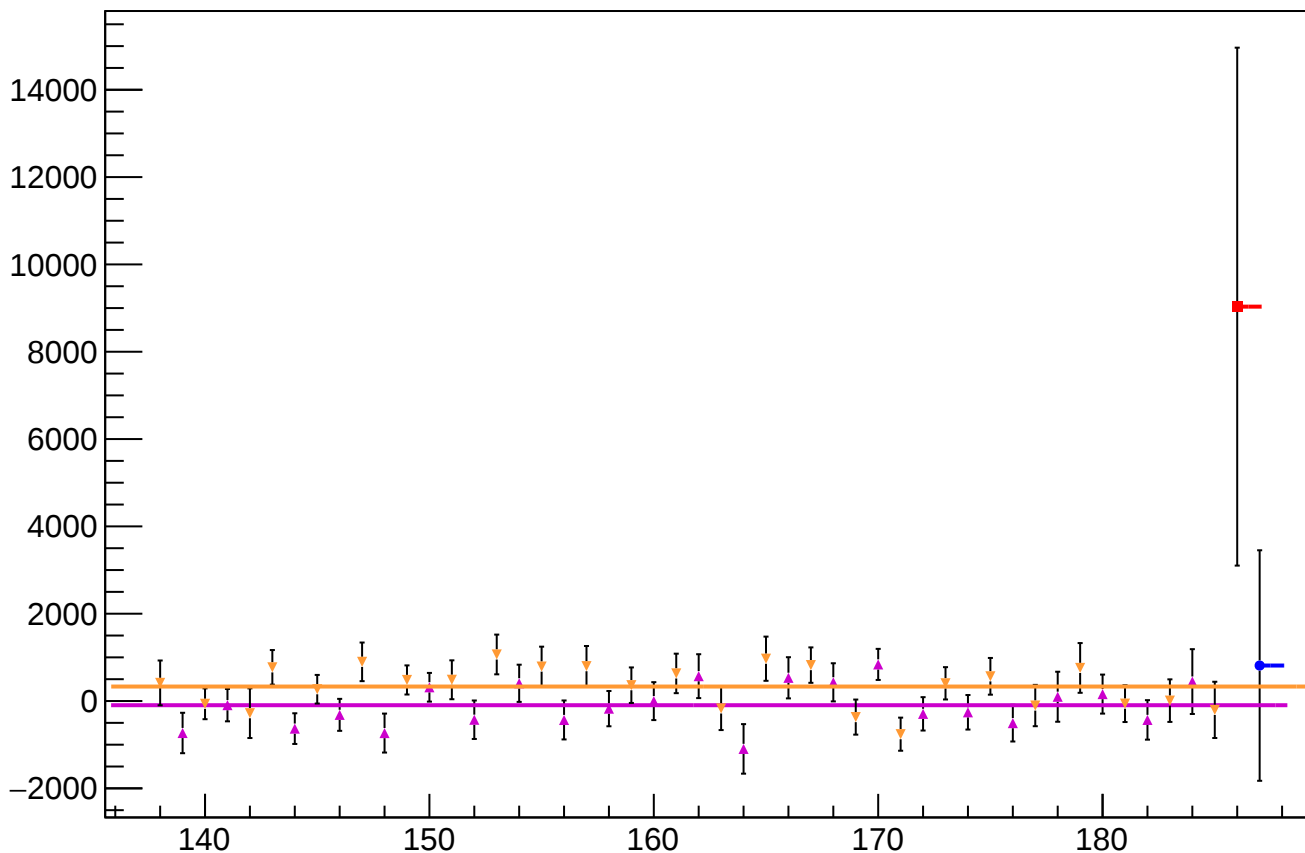
Right: 123.027 $\pm$ 0.154 χ^2 /NDF: 398813.6/1

In: 64.302 $\pm$ 0.011 χ^2 /NDF: 453187.6/23

Out: 63.868 $\pm$ 0.011 χ^2 /NDF: 971321.3/25

All: 64.078 $\pm$ 0.008 χ^2 /NDF: 1425322.6/49

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 812.787 $\pm$ 2639.916 χ^2 /NDF: 0.0/0

Left Out: 331.739 $\pm$ 86.071 χ^2 /NDF:29.9/24

Right Out: 9032.937 $\pm$ 5931.328 χ^2 /NDF: 0.0/0

Left In: -95.910 $\pm$ 88.656 χ^2 /NDF:28.7/22

Left: 124.240 $\pm$ 61.755 χ^2 /NDF: 70.5/47

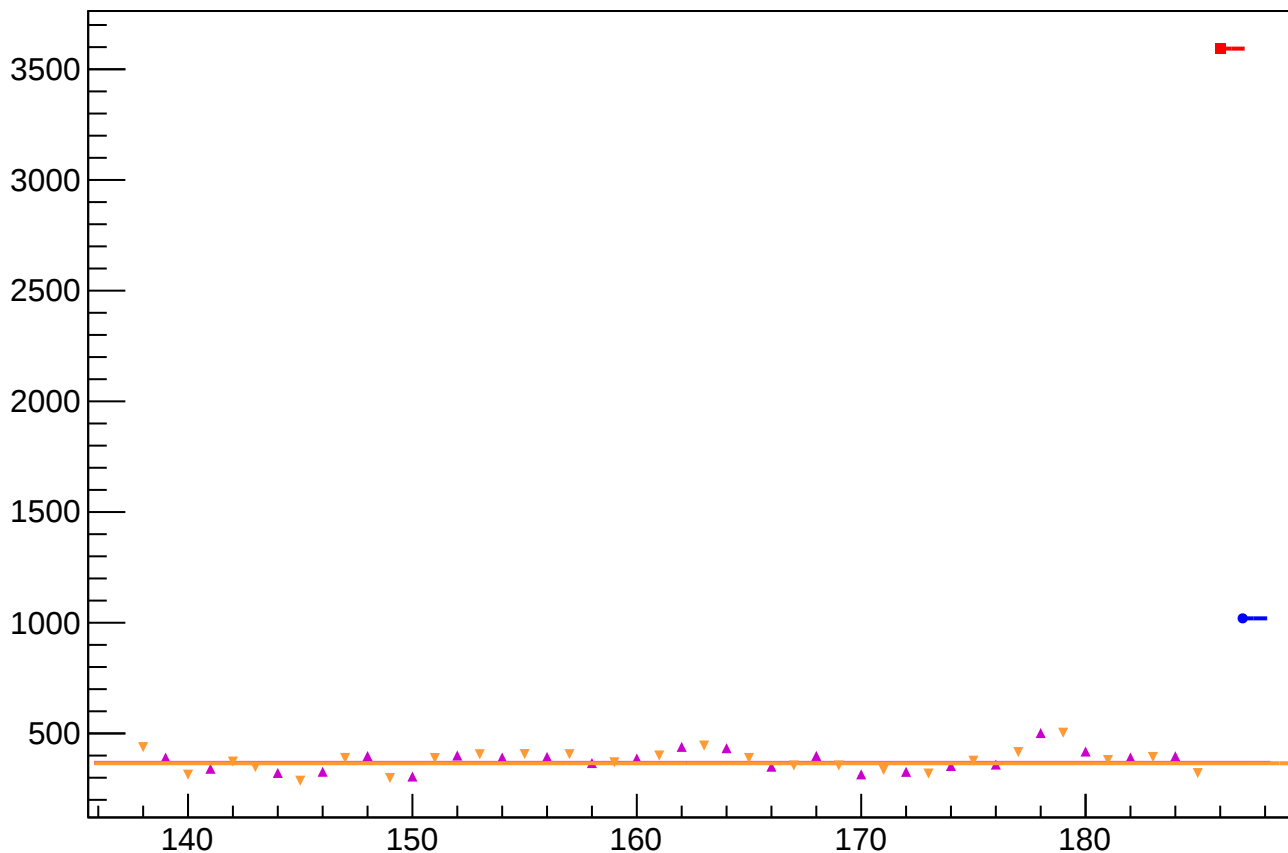
Right: 2171.928 $\pm$ 2411.816 χ^2 /NDF: 1.6/1

In: -94.886 $\pm$ 88.606 χ^2 /NDF:28.8/23

Out: 333.571 $\pm$ 86.062 χ^2 /NDF:32.0/25

All: 125.582 $\pm$ 61.735 χ^2 /NDF: 72.9/49

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: 3593.341+/-4.194 χ^2/NDF : 0.0/0

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

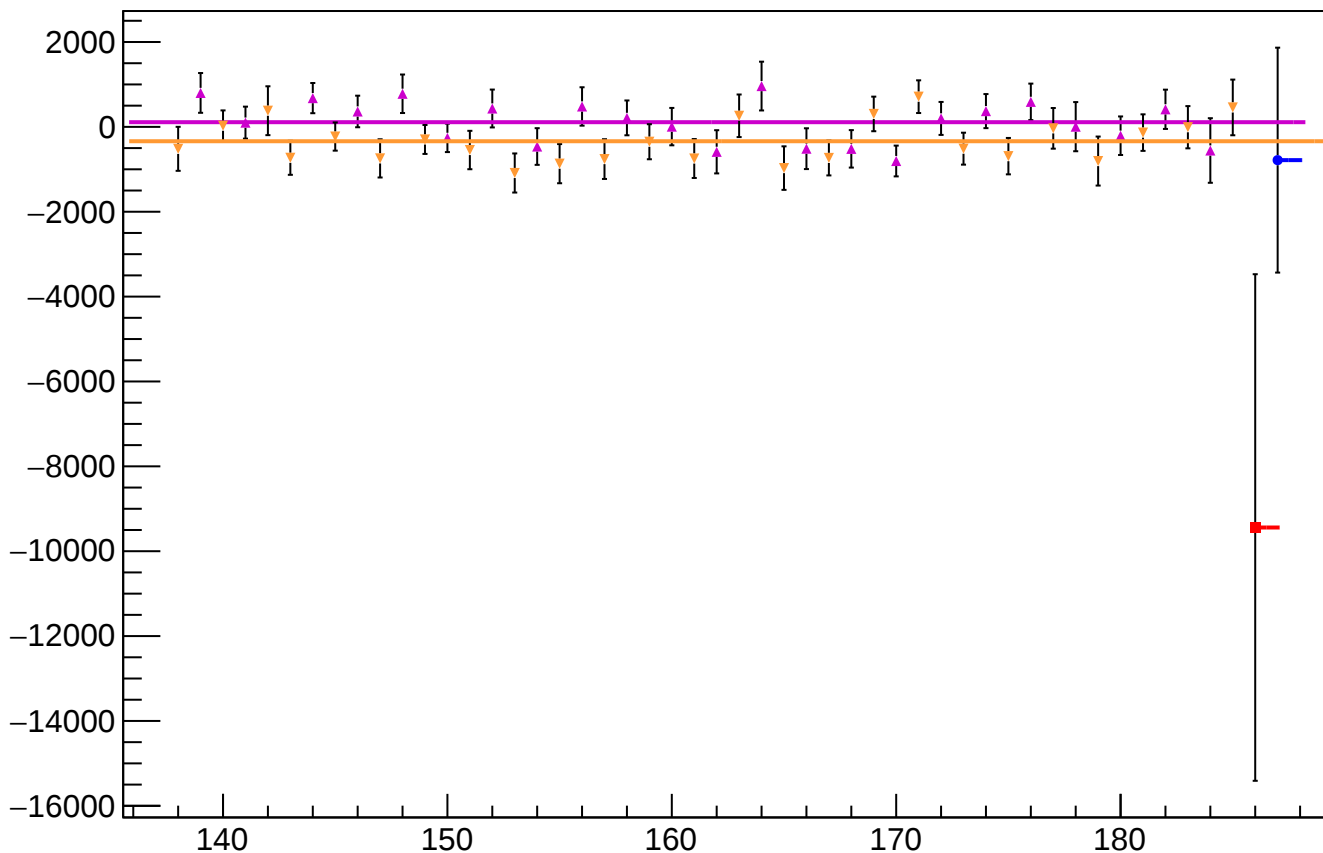
Right: 1445.310+/-1.705 χ^2/NDF : 314267.1/1

In: 367.660+/-0.063 χ^2/NDF : 600265.5/23

Out: 366.035+/-0.061 χ^2/NDF : 1210694.1/25

All: 366.824+/-0.044 χ^2/NDF : 1811306.0/49

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: -9441.407+/-5969.101 χ^2/NDF : 0.0/0

Left In: 110.341+/-90.084 χ^2/NDF :29.2/22

Left: -120.751+/-62.747 χ^2/NDF : 70.2/47

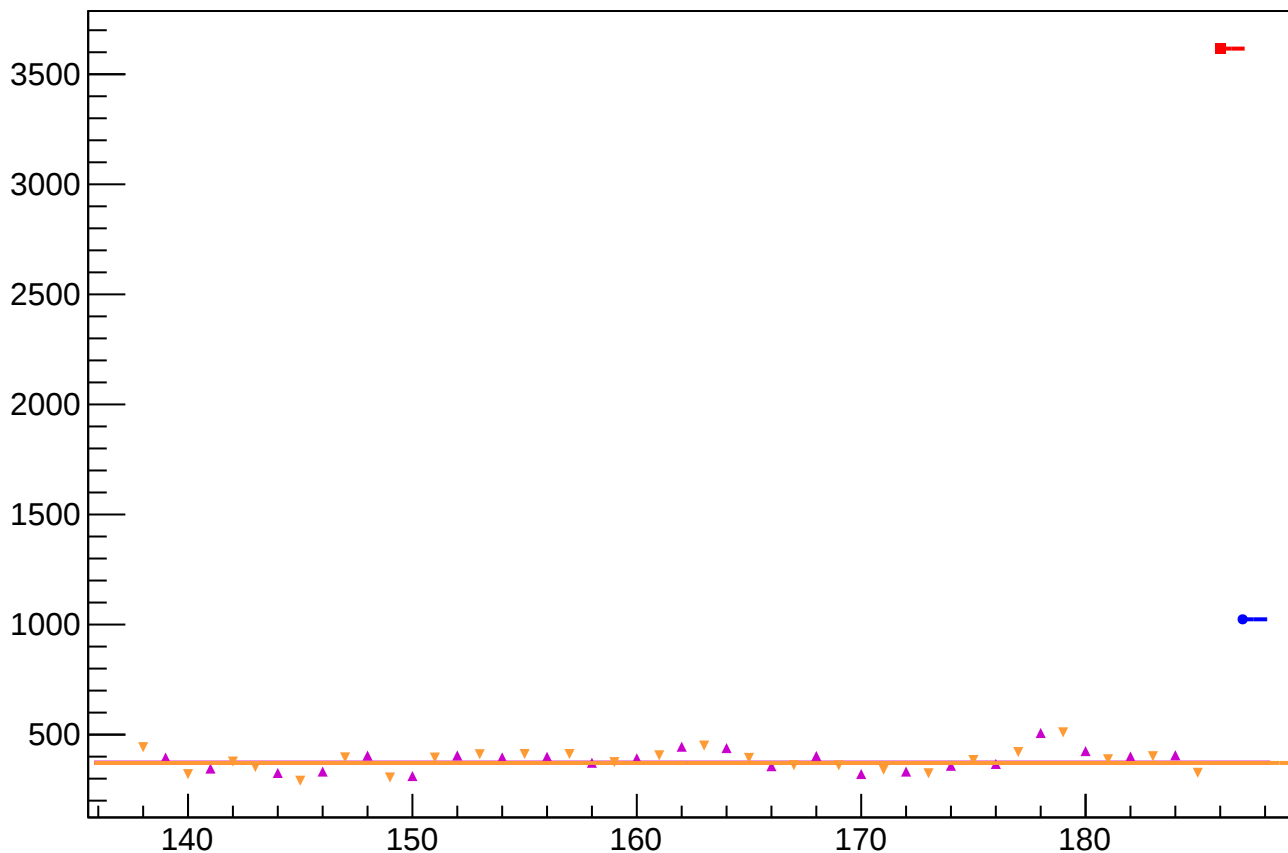
Right: -2209.440+/-2422.218 χ^2/NDF : 1.8/1

In: 109.309+/-90.032 χ^2/NDF :29.3/23

Out: -340.482+/-87.441 χ^2/NDF :30.5/25

All: -122.151+/-62.726 χ^2/NDF : 72.7/49

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: 3616.538+/-4.221 χ^2/NDF : 0.0/0

Left In: 372.938+/-0.064 χ^2/NDF : 467340.9/22

Left: 372.123+/-0.044 χ^2/NDF : 1071729.1/47

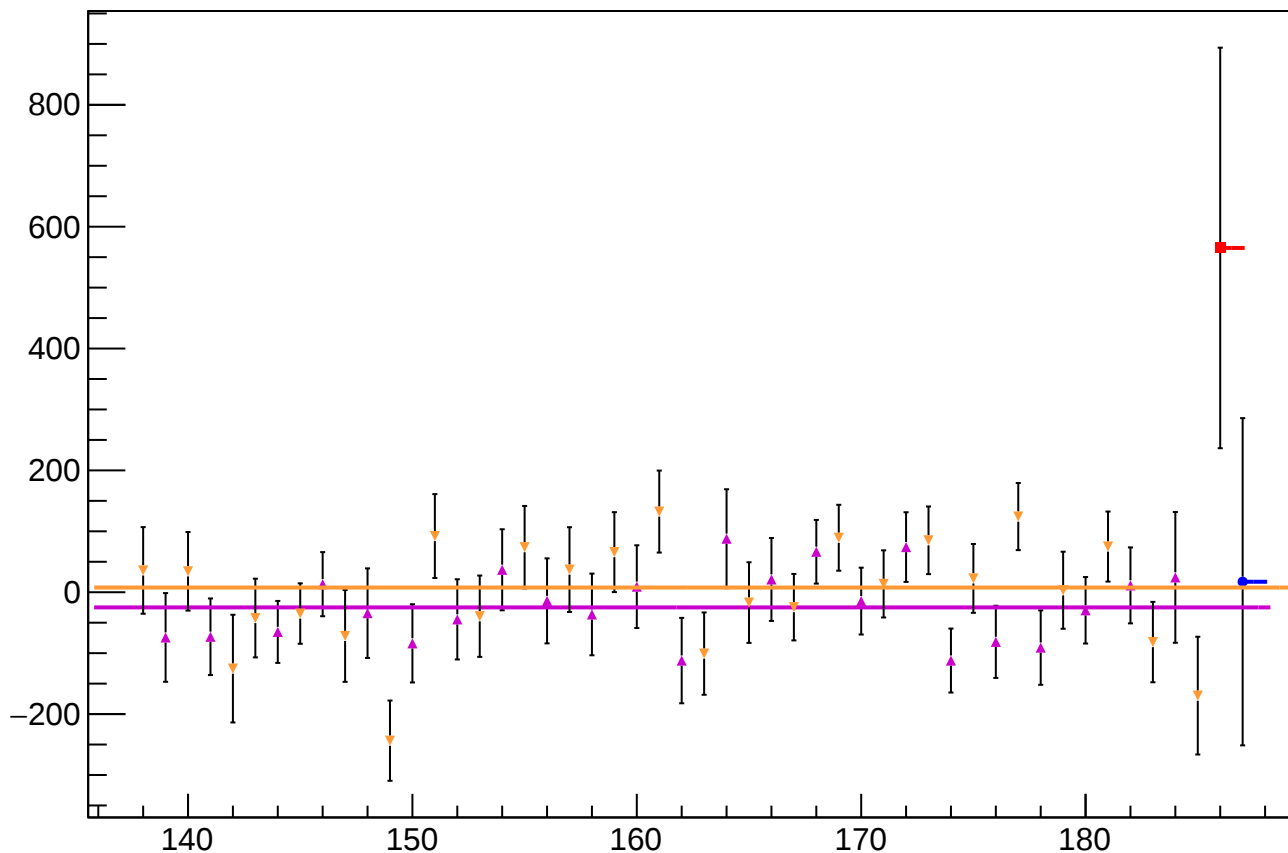
Right: 1450.764+/-1.713 χ^2/NDF : 315195.0/1

In: 373.689+/-0.064 χ^2/NDF : 587838.3/23

Out: 372.052+/-0.062 χ^2/NDF : 1195083.8/25

All: 372.847+/-0.044 χ^2/NDF : 1783262.2/49

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: 565.110+/-328.739 χ^2/NDF : 0.0/0

Left In: -24.887+/-13.029 χ^2/NDF : 19.7/22

Left: -8.108+/-9.078 χ^2/NDF : 68.4/47

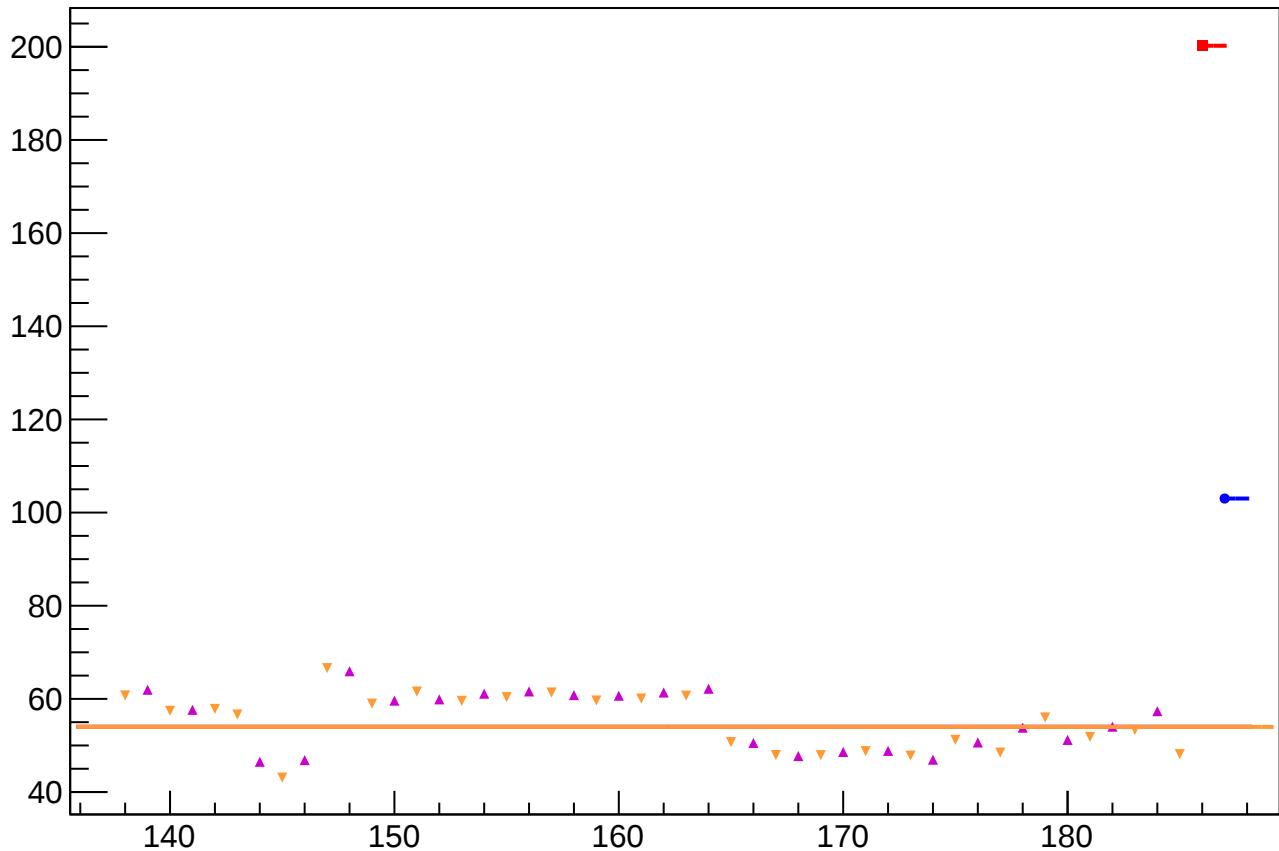
Right: 236.526+/-207.990 χ^2/NDF : 1.7/1

In: -24.789+/-13.013 χ^2/NDF : 19.8/23

Out: 8.548+/-12.646 χ^2/NDF : 48.3/25

All: -7.643+/-9.069 χ^2/NDF : 71.4/49

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: 200.225 $\pm$ 0.232 χ^2 /NDF: 0.0/0

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

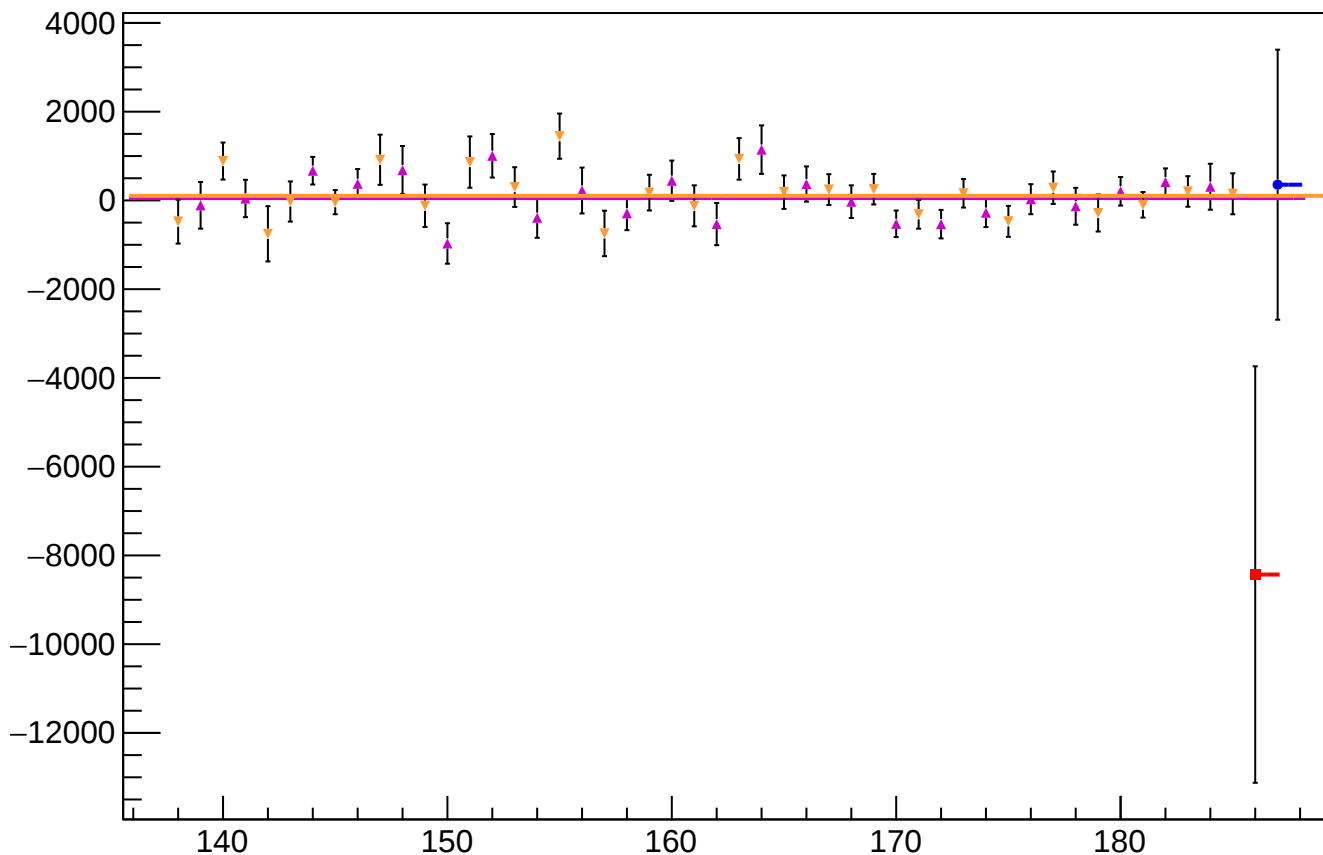
Right: 141.928 $\pm$ 0.147 χ^2 /NDF: 104879.1/1

In: 54.143 $\pm$ 0.009 χ^2 /NDF: 510197.3/23

Out: 54.200 $\pm$ 0.009 χ^2 /NDF: 854179.3/25

All: 54.172 $\pm$ 0.006 χ^2 /NDF: 1364396.6/49

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: -8431.254 $\pm$ 4692.802 χ^2 /NDF: 0.0/0

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

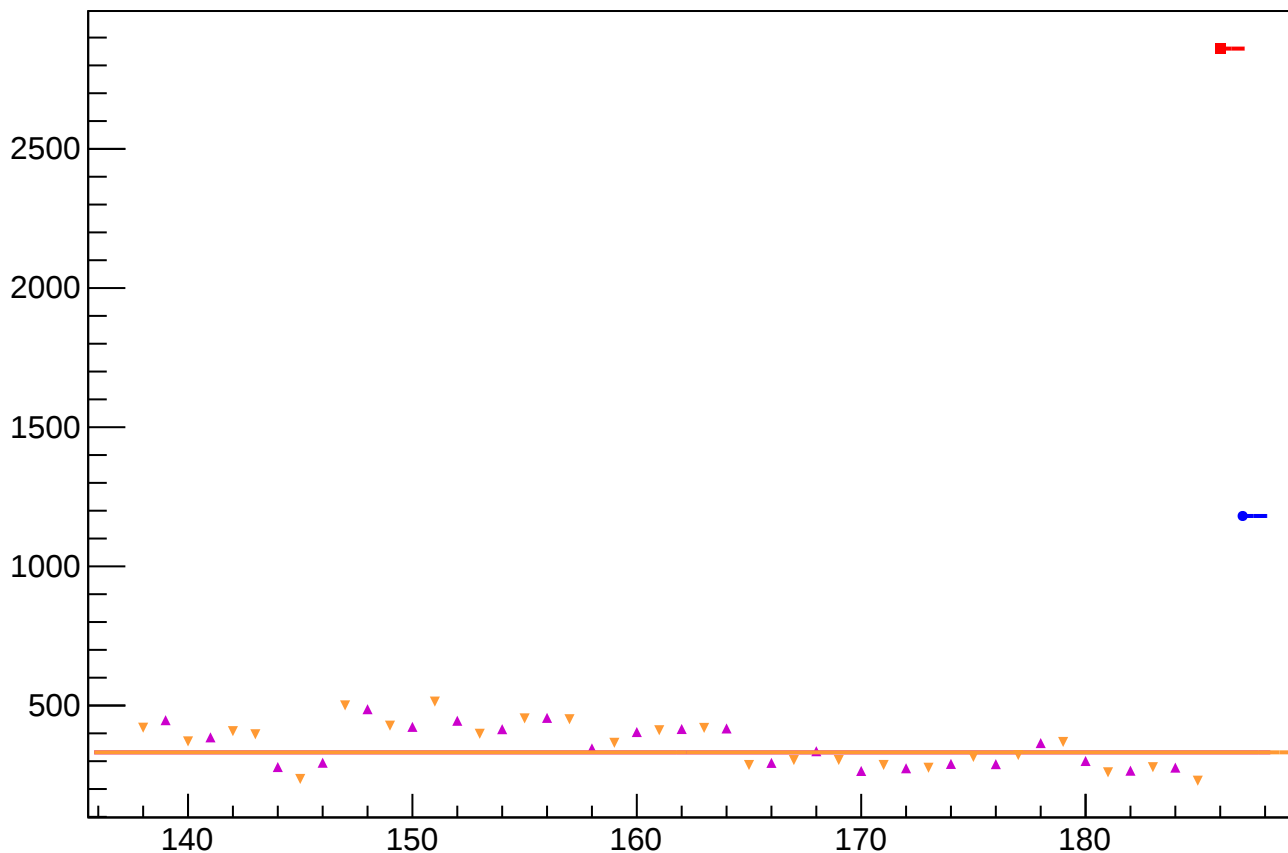
Right: -2245.660 $\pm$ 2553.036 χ^2 /NDF: 2.5/1

In: 53.707 $\pm$ 81.172 χ^2 /NDF:34.1/23

Out: 101.328 $\pm$ 79.333 χ^2 /NDF:34.3/25

All: 78.064 $\pm$ 56.736 χ^2 /NDF: 68.6/49

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: 2860.394 $\pm$ 3.318 χ^2 /NDF: 0.0/0

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

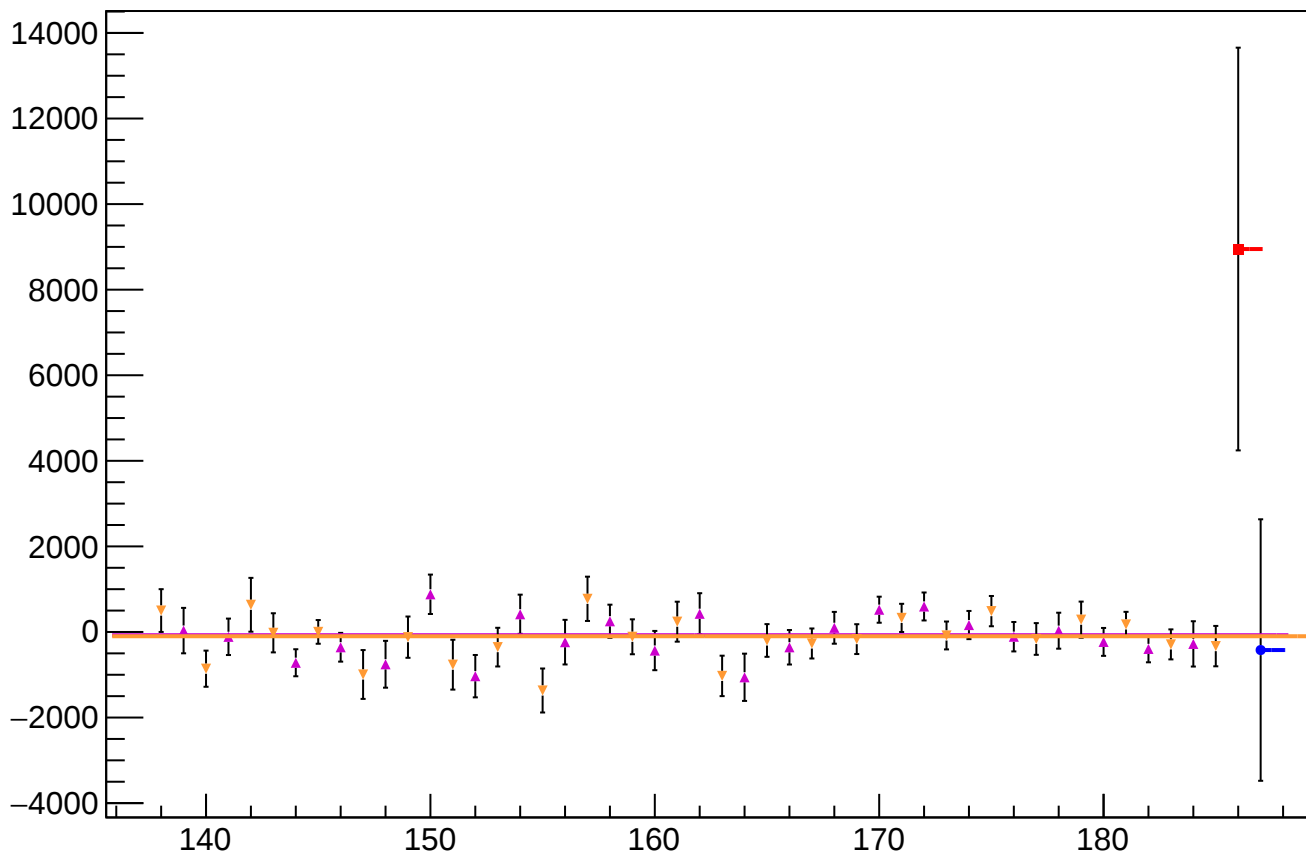
Right: 1678.079 $\pm$ 1.805 χ^2 /NDF: 180319.0/1

In: 332.270 $\pm$ 0.057 χ^2 /NDF:1458929.9/23

Out: 332.493 $\pm$ 0.056 χ^2 /NDF:2292231.9/25

All: 332.384 $\pm$ 0.040 χ^2 /NDF: 3751169.5/49

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: 8949.643+/-4706.210 χ^2/NDF : 0.0/0

Left In: -75.579+/-82.319 χ^2/NDF :32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

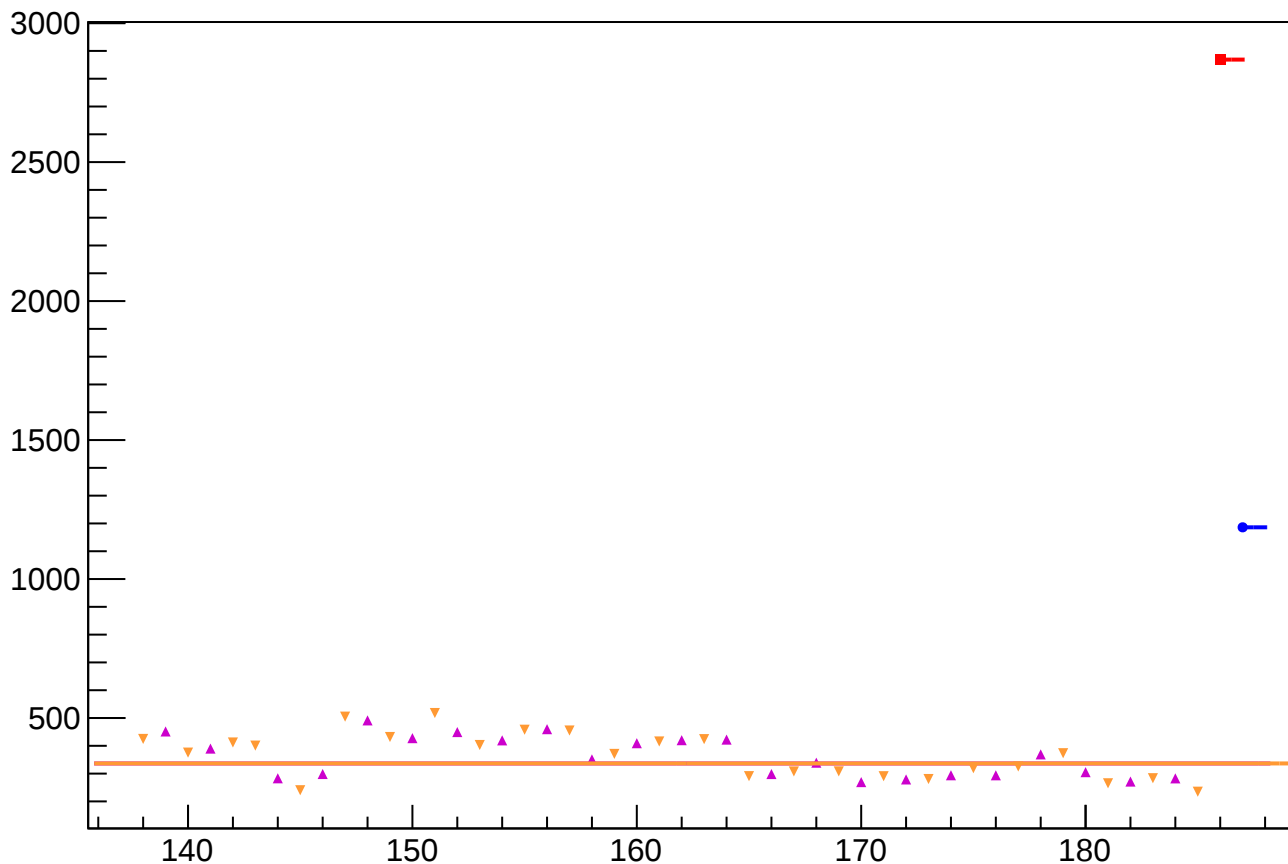
Right: 2357.145+/-2562.945 χ^2/NDF : 2.8/1

In: -75.831+/-82.289 χ^2/NDF :32.1/23

Out: -97.143+/-80.416 χ^2/NDF :34.4/25

All: -86.732+/-57.513 χ^2/NDF : 66.5/49

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: 2868.780 $\pm$ 3.328 χ^2 /NDF: 0.0/0

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

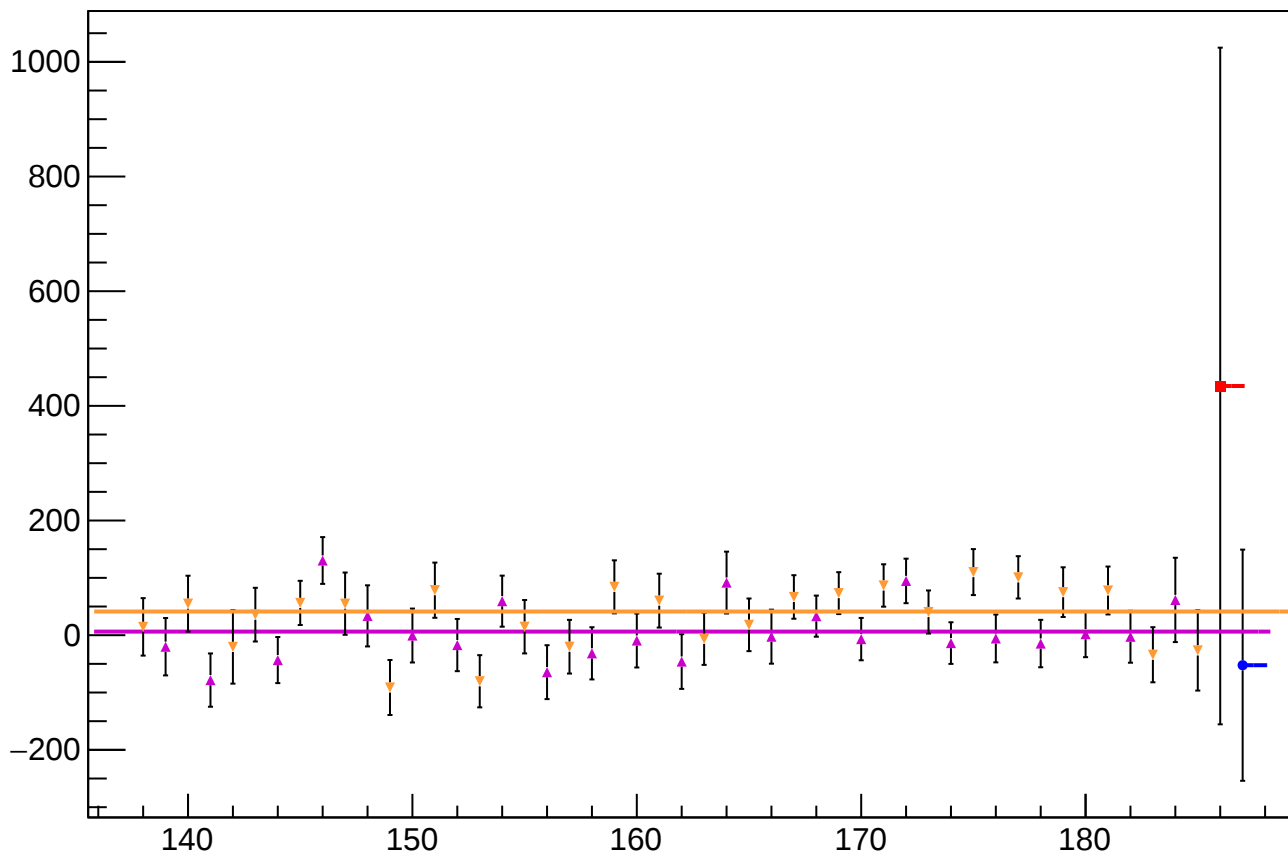
Right: 1685.106 $\pm$ 1.812 χ^2 /NDF: 179859.9/1

In: 337.056 $\pm$ 0.058 χ^2 /NDF:1423553.1/23

Out: 337.297 $\pm$ 0.057 χ^2 /NDF:2244767.0/25

All: 337.179 $\pm$ 0.041 χ^2 /NDF: 3668329.0/49

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: 434.648 $\pm$ 590.122 χ^2 /NDF: 0.0/0

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

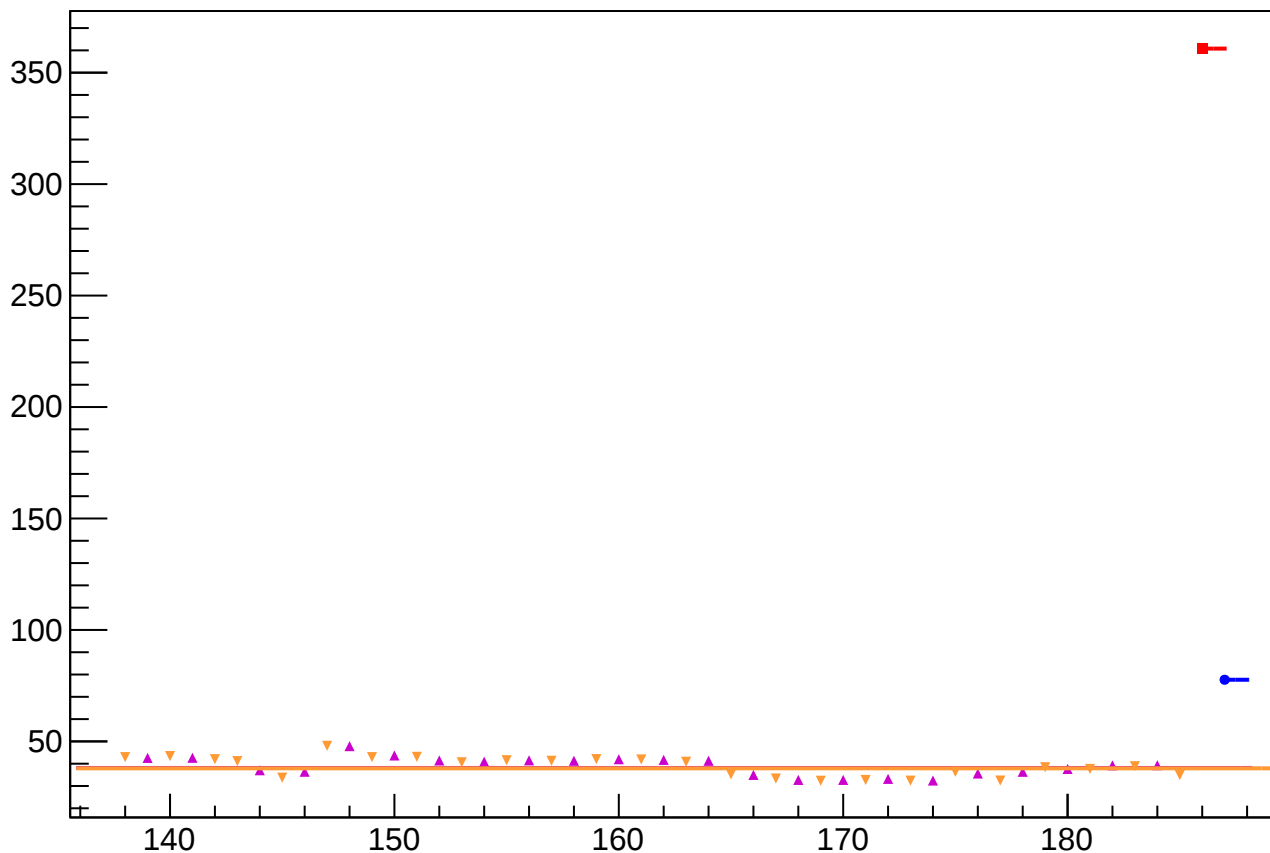
Right: -1.458 $\pm$ 190.786 χ^2 /NDF: 0.6/1

In: 6.133 $\pm$ 9.165 χ^2 /NDF:30.4/23

Out: 41.372 $\pm$ 8.888 χ^2 /NDF:34.8/25

All: 24.293 $\pm$ 6.381 χ^2 /NDF: 72.8/49

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: 360.791 $\pm$ 0.417 χ^2 /NDF: 0.0/0

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

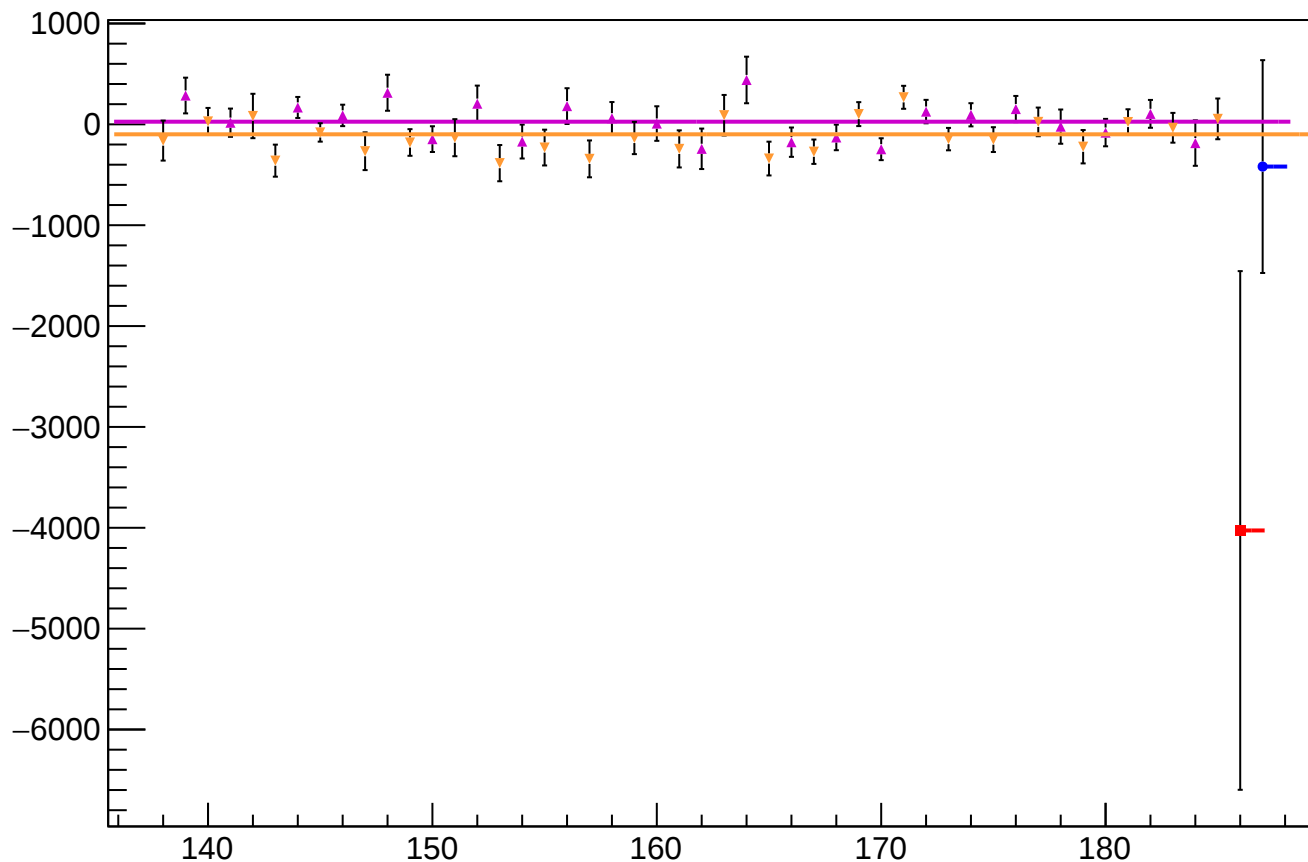
Right: 107.252 $\pm$ 0.135 χ^2 /NDF: 412268.1/1

In: 38.169 $\pm$ 0.006 χ^2 /NDF: 473221.4/23

Out: 37.998 $\pm$ 0.006 χ^2 /NDF: 1085622.4/25

All: 38.081 $\pm$ 0.005 χ^2 /NDF: 1559201.5/49

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -418.624 $\pm$ 1055.050 χ^2 /NDF: 0.0/0

Left Out: -98.741 $\pm$ 29.095 χ^2 /NDF:32.7/24

Right Out: -4026.492 $\pm$ 2571.269 χ^2 /NDF: 0.0/0

Left In: 26.223 $\pm$ 29.676 χ^2 /NDF:30.7/22

Left: -37.493 $\pm$ 20.776 χ^2 /NDF: 72.5/47

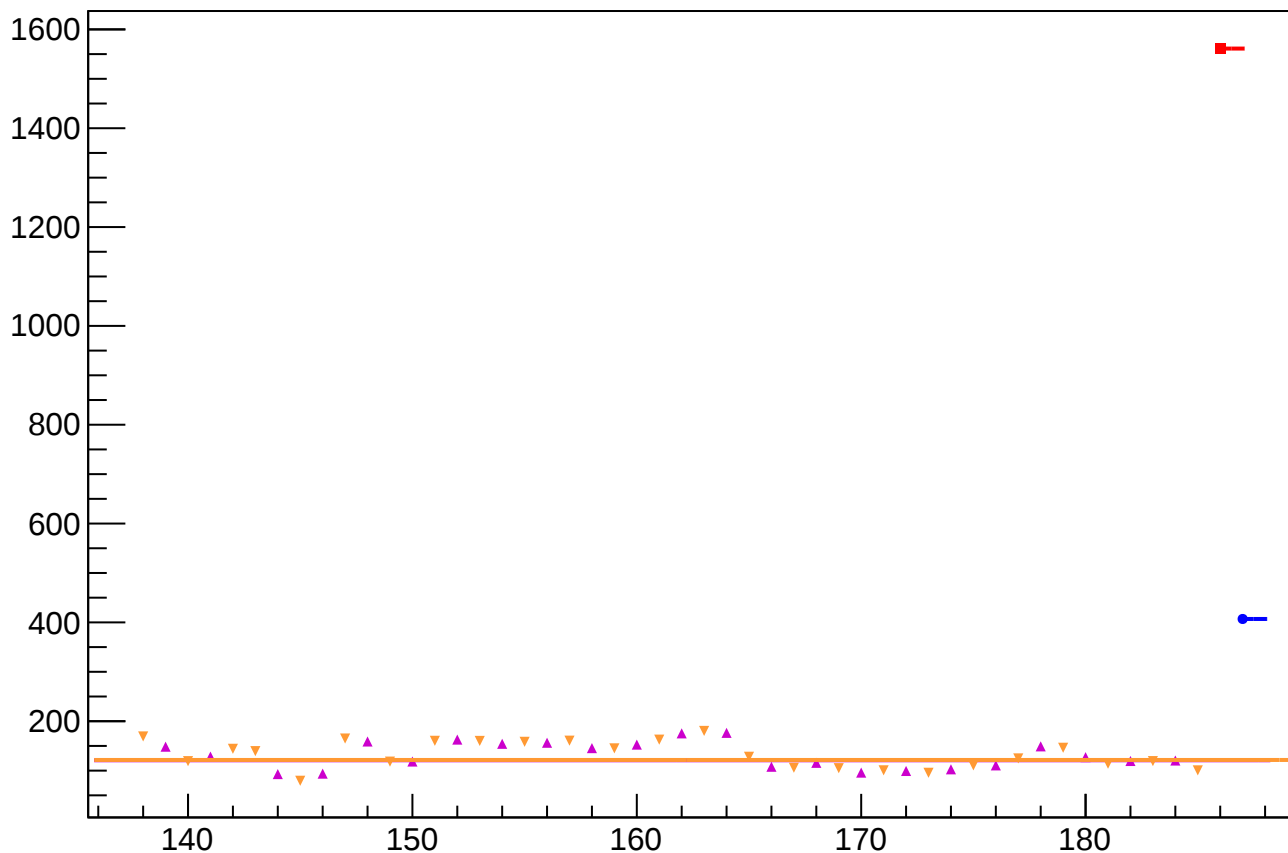
Right: -938.528 $\pm$ 976.076 χ^2 /NDF: 1.7/1

In: 25.871 $\pm$ 29.664 χ^2 /NDF:30.8/23

Out: -99.244 $\pm$ 29.093 χ^2 /NDF:35.1/25

All: -37.901 $\pm$ 20.771 χ^2 /NDF: 75.0/49

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: 1561.206 $\pm$ 1.818 χ^2 /NDF: 0.0/0

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

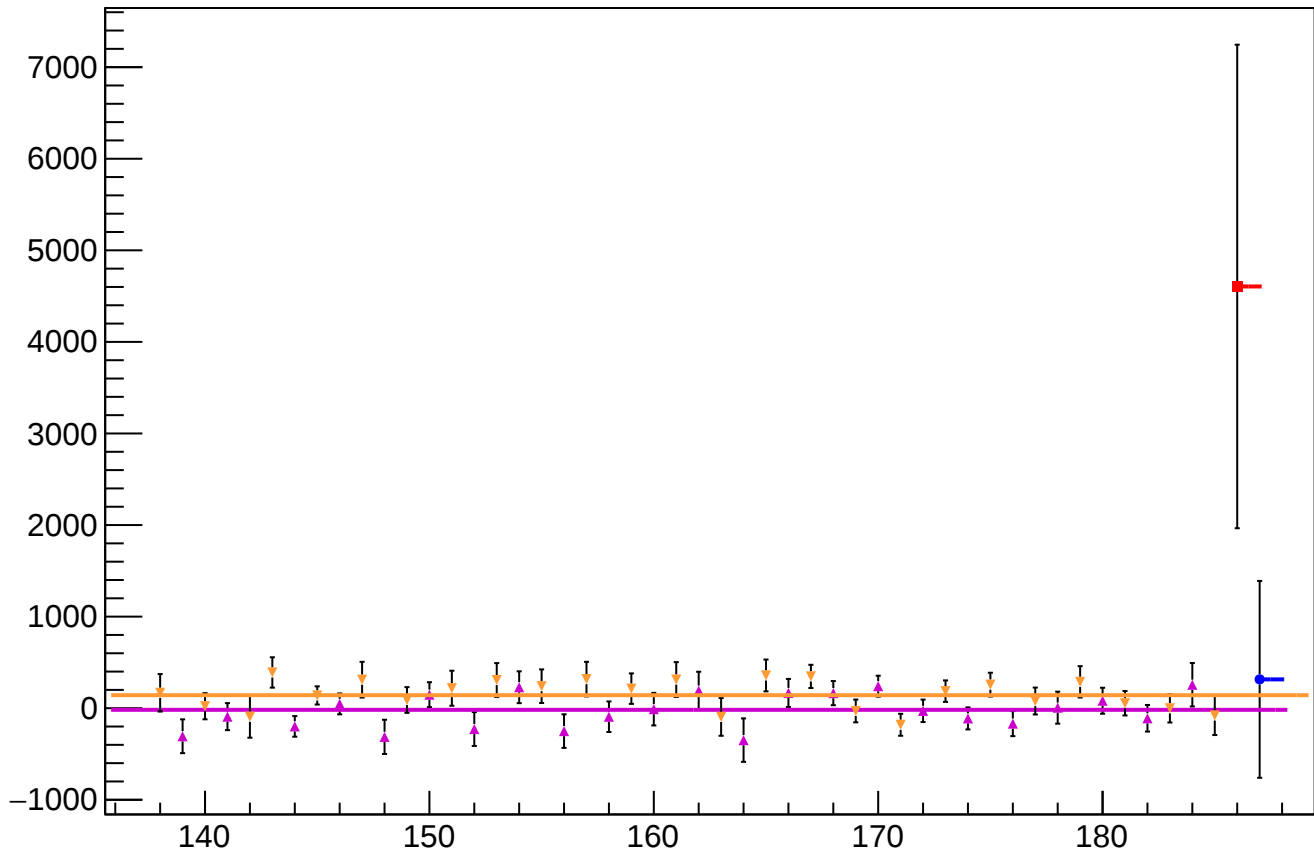
Right: 573.251 $\pm$ 0.690 χ^2 /NDF: 344974.8/1

In: 121.153 $\pm$ 0.021 χ^2 /NDF:1529698.4/23

Out: 121.776 $\pm$ 0.021 χ^2 /NDF:2338285.1/25

All: 121.471 $\pm$ 0.015 χ^2 /NDF: 3868433.6/49

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: 4605.425 $\pm$ 2640.214 χ^2 /NDF: 0.0/0

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

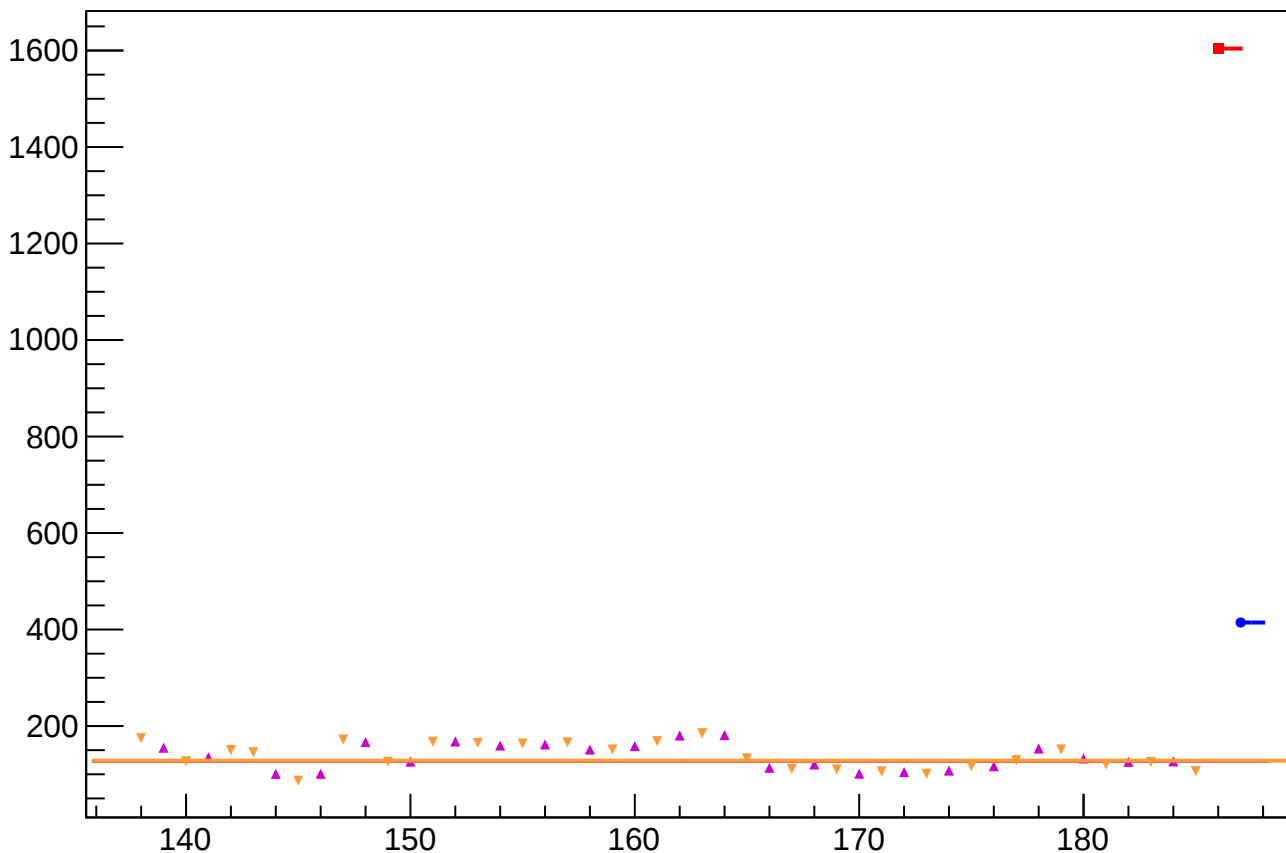
Right: 924.797 $\pm$ 995.464 χ^2 /NDF: 2.3/1

In: -17.399 $\pm$ 31.195 χ^2 /NDF:30.2/23

Out: 142.613 $\pm$ 30.572 χ^2 /NDF:29.7/25

All: 64.221 $\pm$ 21.835 χ^2 /NDF: 73.4/49

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: 1604.044 $\pm$ 1.867 χ^2 /NDF: 0.0/0

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

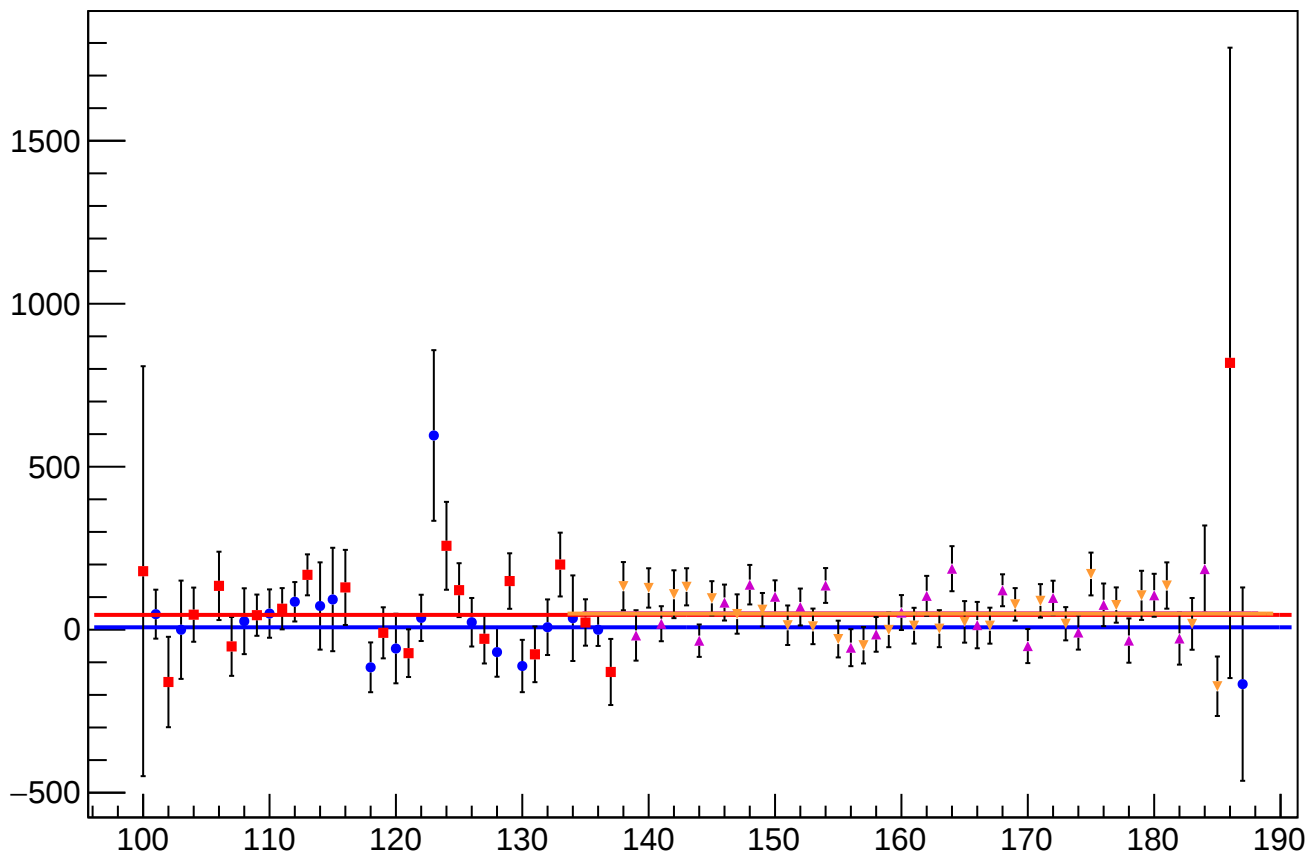
Right: 583.653 $\pm$ 0.704 χ^2 /NDF: 348239.6/1

In: 127.786 $\pm$ 0.022 χ^2 /NDF:1378208.5/23

Out: 128.373 $\pm$ 0.022 χ^2 /NDF:2157791.2/25

All: 128.085 $\pm$ 0.015 χ^2 /NDF: 3536361.5/49

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: 45.452 ± 19.455 $\chi^2/\text{NDF}: 25.6/19$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

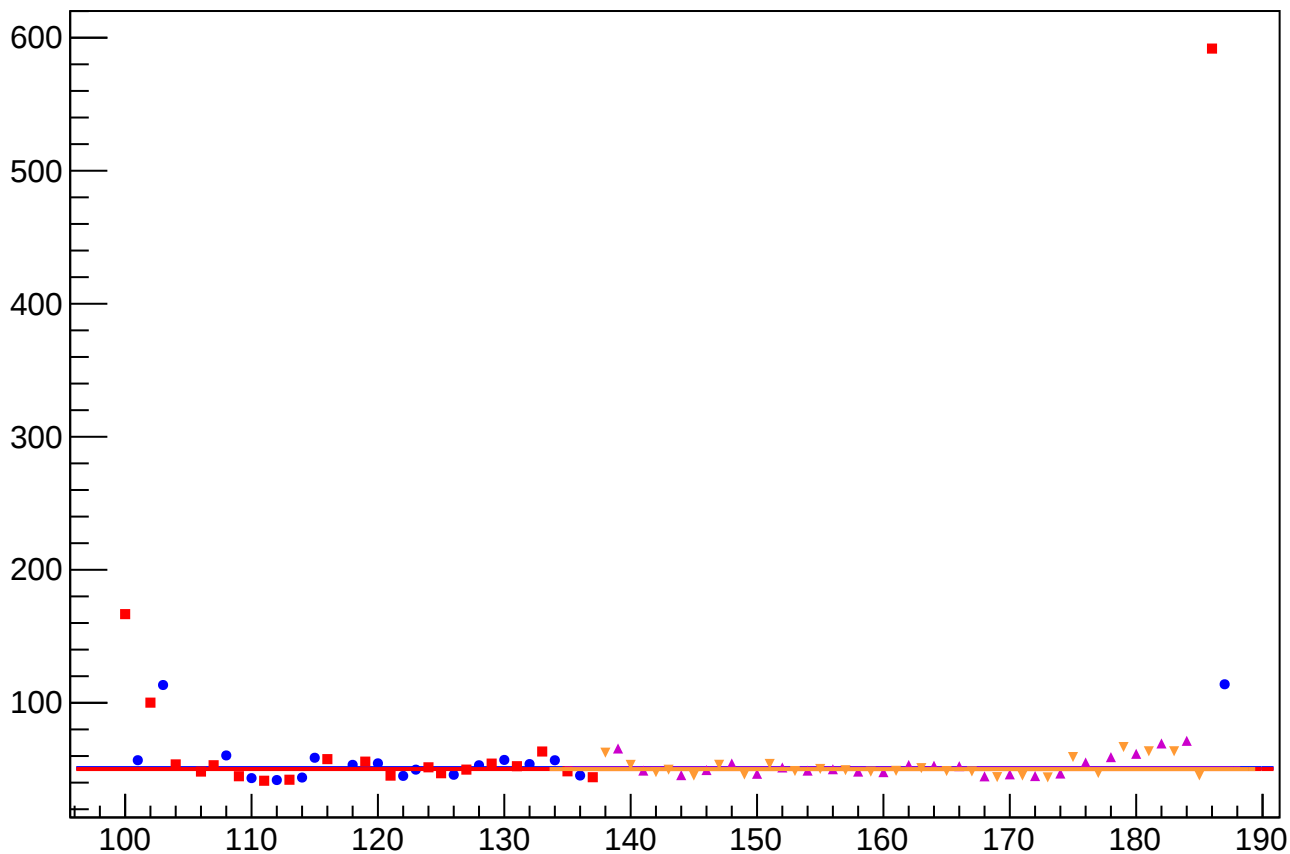
Right: 27.069 ± 13.992 $\chi^2/\text{NDF}: 42.1/37$

In: 38.724 ± 10.468 $\chi^2/\text{NDF}: 50.2/40$

Out: 48.339 ± 10.093 $\chi^2/\text{NDF}: 53.7/44$

All: 43.707 ± 7.266 $\chi^2/\text{NDF}: 104.3/85$

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: 50.197 $\pm$ 0.014 χ^2 /NDF: 1128721.9/19

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

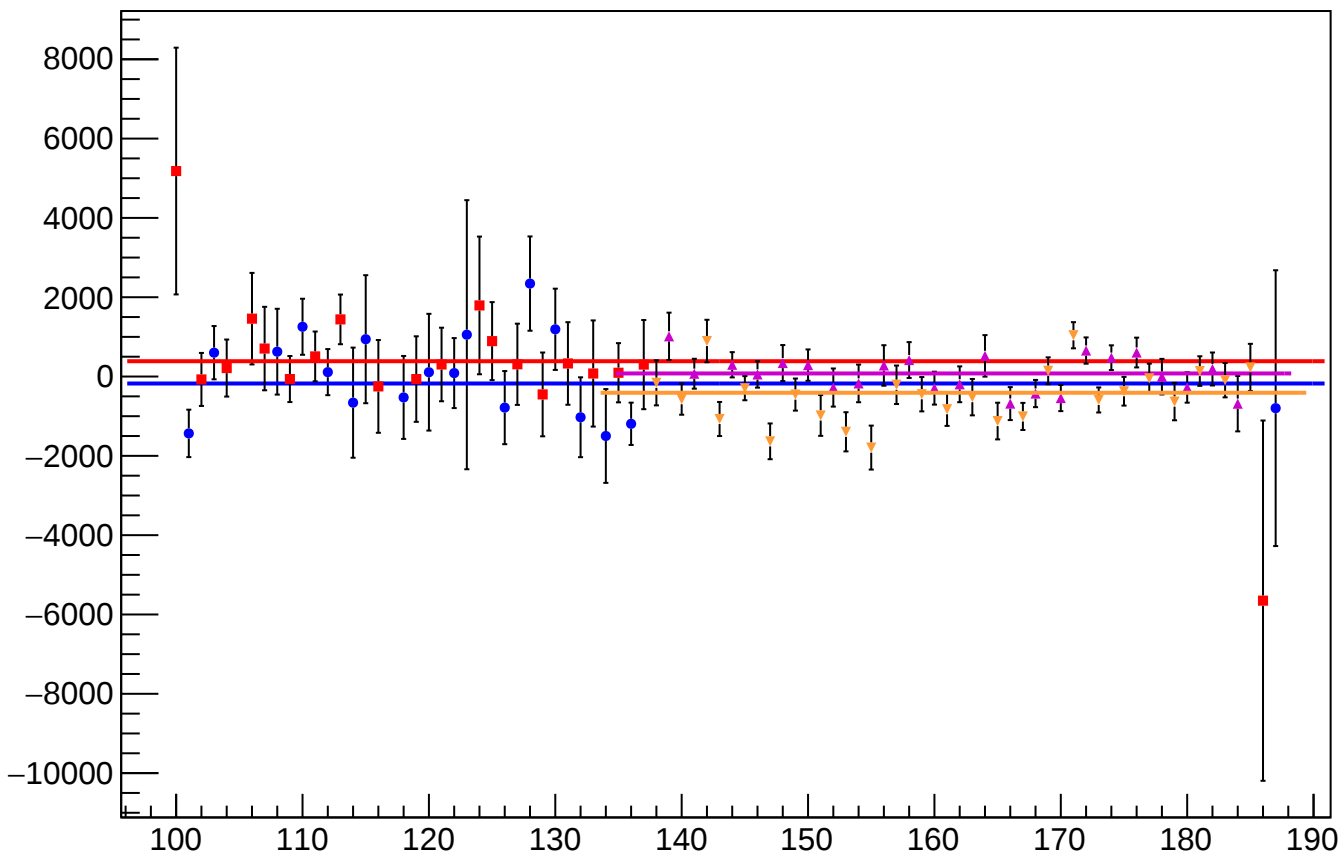
Right: 50.551 $\pm$ 0.010 χ^2 /NDF: 1741063.3/37

In: 50.750 $\pm$ 0.007 χ^2 /NDF: 1080484.1/40

Out: 50.191 $\pm$ 0.007 χ^2 /NDF: 1596401.3/44

All: 50.460 $\pm$ 0.005 χ^2 /NDF: 2679832.0/85

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -175.653 ± 210.285 $\chi^2/\text{NDF}: 24.0/17$

Left Out: -409.164 ± 82.348 $\chi^2/\text{NDF}: 61.7/24$

Right Out: 386.434 ± 203.836 $\chi^2/\text{NDF}: 11.3/19$

Left In: 77.872 ± 84.072 $\chi^2/\text{NDF}: 24.8/22$

Left: -170.691 ± 58.829 $\chi^2/\text{NDF}: 103.6/47$

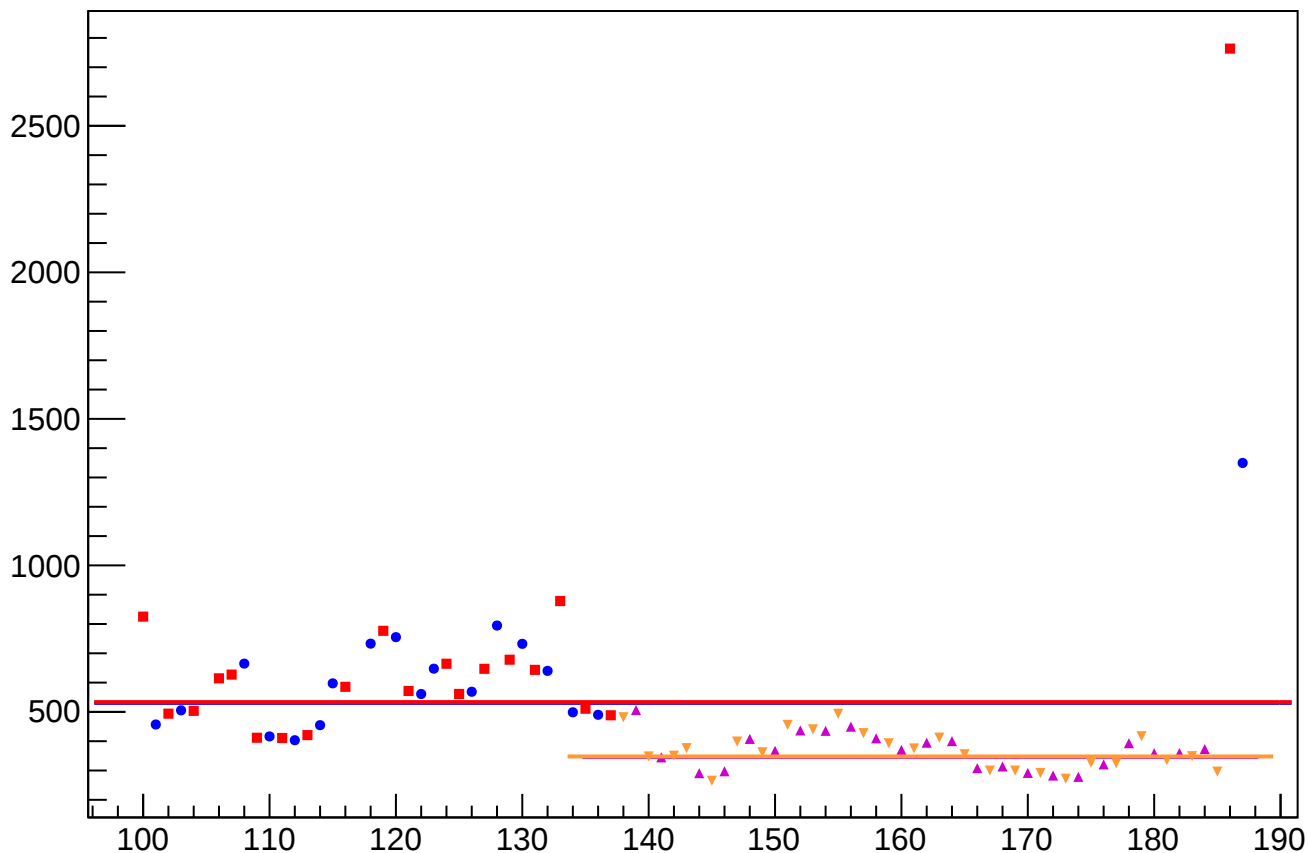
Right: 114.142 ± 146.361 $\chi^2/\text{NDF}: 39.0/37$

In: 42.933 ± 78.065 $\chi^2/\text{NDF}: 50.1/40$

Out: -297.533 ± 76.353 $\chi^2/\text{NDF}: 86.1/44$

All: -131.074 ± 54.585 $\chi^2/\text{NDF}: 145.9/85$

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: 533.386+/-0.144 χ^2/NDF : 1108611.4/19

Left In: 345.954+/-0.059 χ^2/NDF : 900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

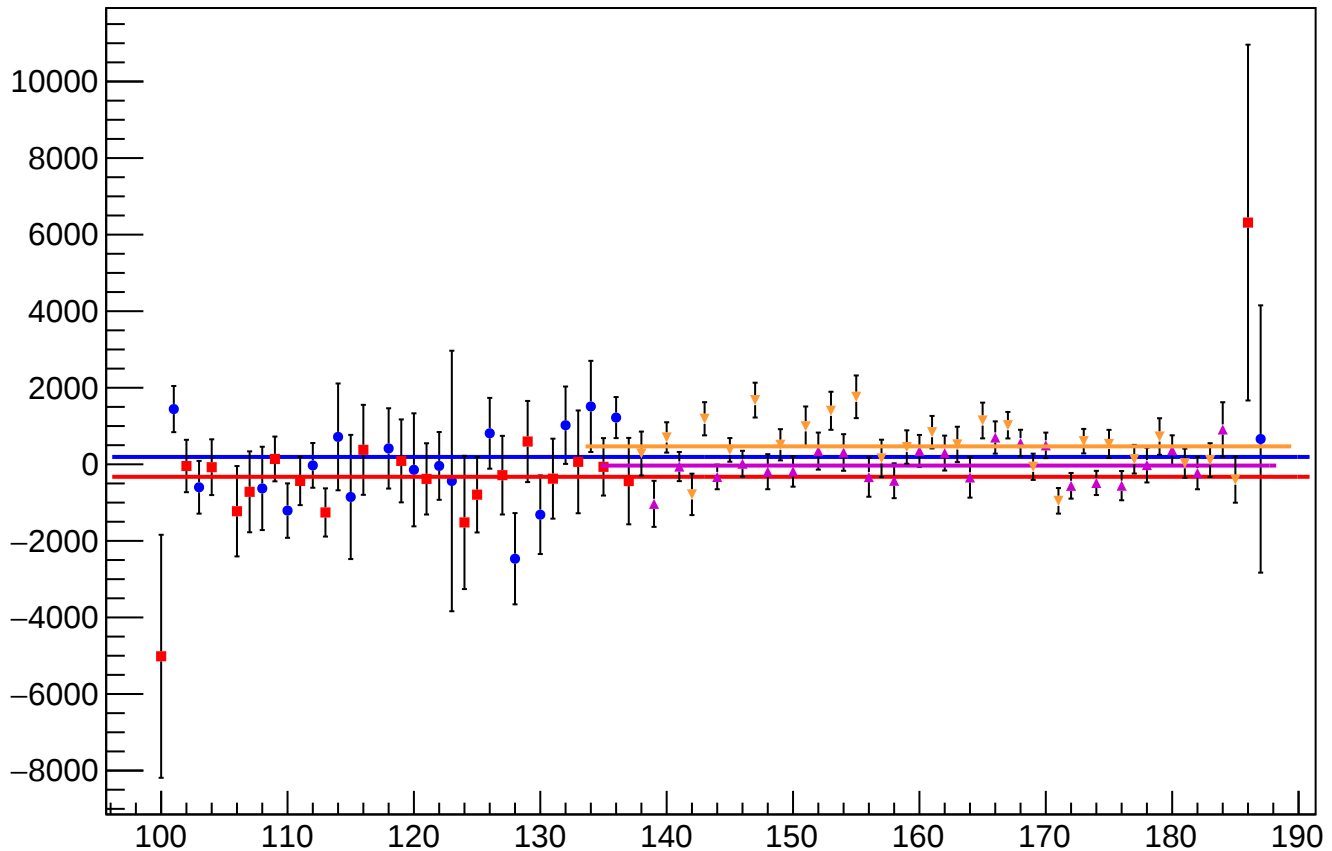
Right: 532.170+/-0.103 χ^2/NDF : 1783479.7/37

In: 371.439+/-0.055 χ^2/NDF : 2909057.7/40

Out: 373.904+/-0.054 χ^2/NDF : 3576836.7/44

All: 372.699+/-0.039 χ^2/NDF : 6486914.0/85

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: -326.085 $\pm$ 205.417 χ^2 /NDF: 10.3/19

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

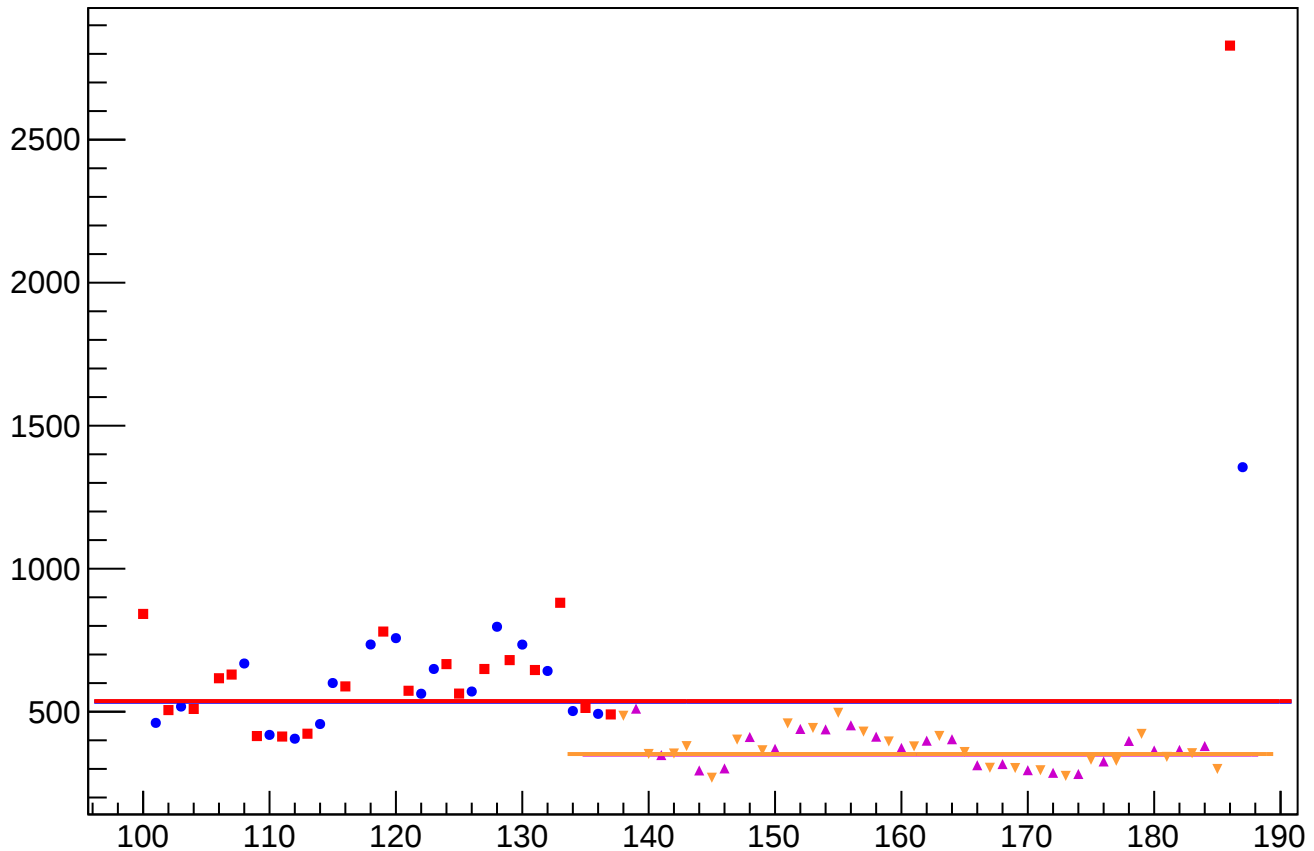
Right: -74.589 $\pm$ 147.445 χ^2 /NDF: 37.5/37

In: -1.472 $\pm$ 78.933 χ^2 /NDF:50.8/40

Out: 356.611 $\pm$ 77.191 χ^2 /NDF:80.6/44

All: 181.566 $\pm$ 55.188 χ^2 /NDF: 142.0/85

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 534.794+/-0.150 χ^2/NDF : 666744.2/17

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 537.195+/-0.145 χ^2/NDF : 1105164.7/19

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

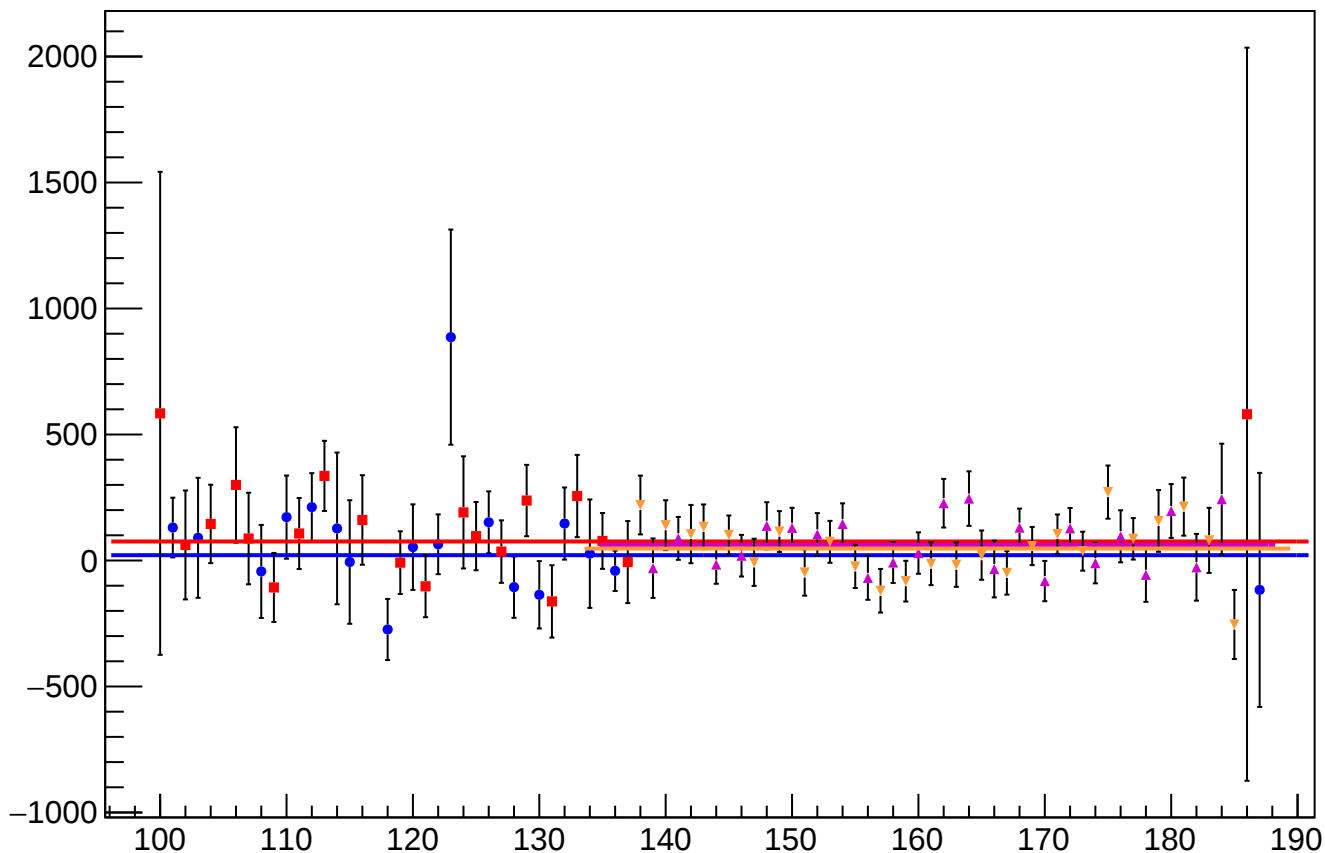
Right: 536.031+/-0.104 χ^2/NDF : 1772041.4/37

In: 375.813+/-0.056 χ^2/NDF : 2854245.8/40

Out: 378.163+/-0.055 χ^2/NDF : 3518191.1/44

All: 377.014+/-0.039 χ^2/NDF : 6373343.7/85

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: 75.496 $\pm$ 34.790 χ^2 /NDF: 15.6/19

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

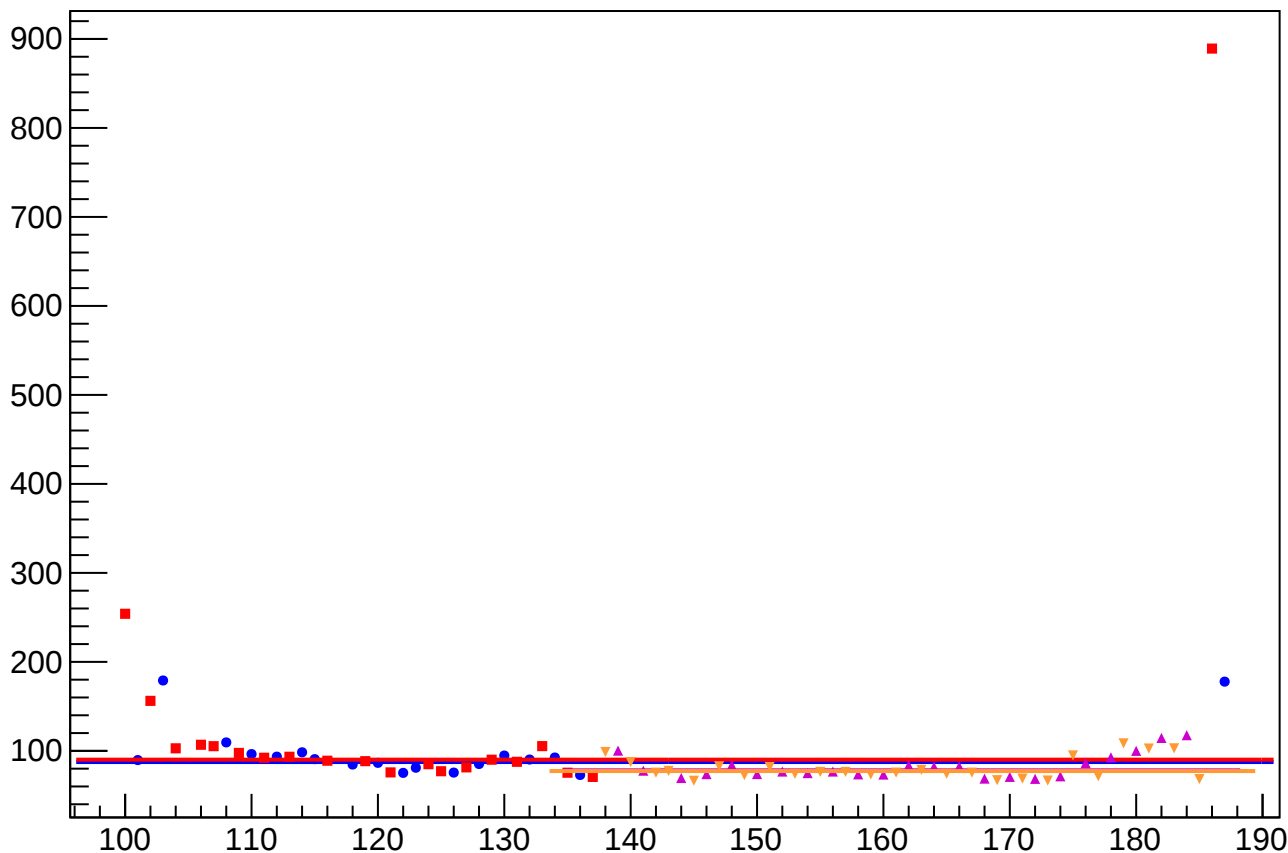
Right: 48.086 $\pm$ 24.512 χ^2 /NDF: 36.1/37

In: 52.394 $\pm$ 16.619 χ^2 /NDF: 44.3/40

Out: 53.484 $\pm$ 16.163 χ^2 /NDF: 45.5/44

All: 52.954 $\pm$ 11.587 χ^2 /NDF: 89.8/85

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: 90.131 $\pm$ 0.025 χ^2 /NDF: 1033019.9/19

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

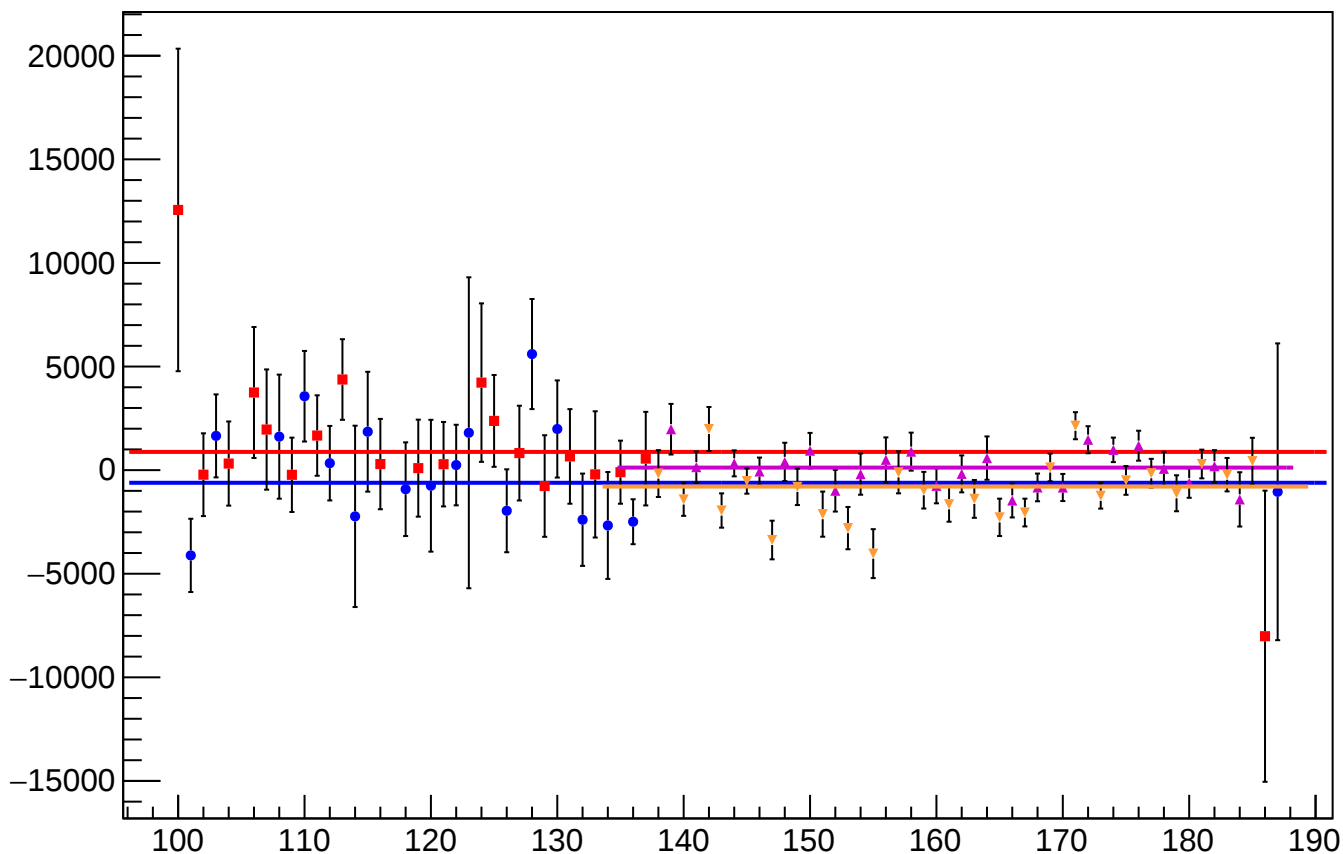
Right: 88.782 $\pm$ 0.017 χ^2 /NDF: 1568754.6/37

In: 80.295 $\pm$ 0.012 χ^2 /NDF: 1223597.1/40

Out: 80.082 $\pm$ 0.011 χ^2 /NDF: 1881433.6/44

All: 80.185 $\pm$ 0.008 χ^2 /NDF: 3105198.5/85

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -609.981+/-516.869 χ^2/NDF : 22.3/17

Left Out: -792.776+/-162.659 χ^2/NDF : 66.6/24

Right Out: 880.002+/-514.392 χ^2/NDF : 11.5/19

Left In: 122.198+/-166.193 χ^2/NDF : 25.9/22

Left: -345.122+/-116.247 χ^2/NDF : 108.0/47

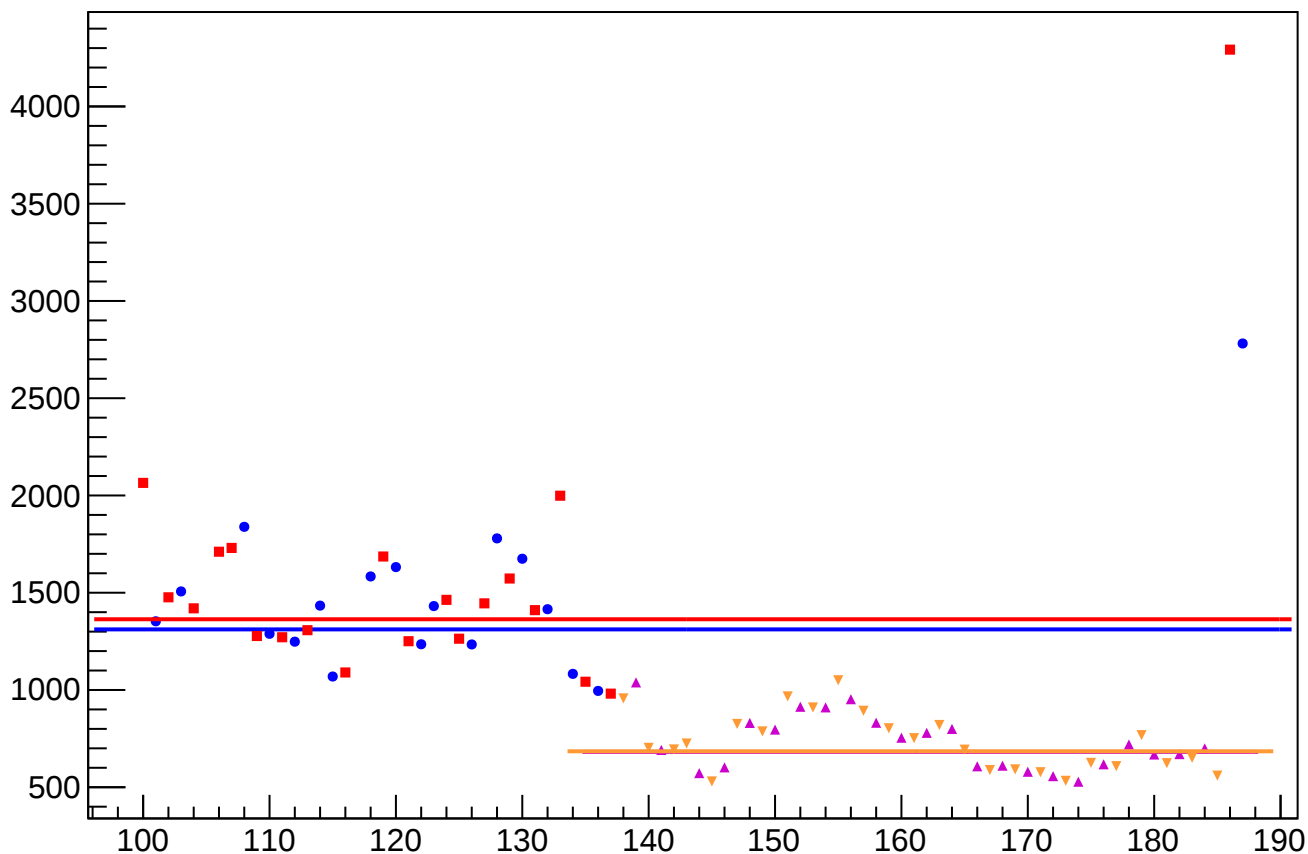
Right: 138.588+/-364.603 χ^2/NDF : 38.0/37

In: 53.592+/-158.216 χ^2/NDF : 50.1/40

Out: -640.716+/-155.090 χ^2/NDF : 87.7/44

All: -300.489+/-110.754 χ^2/NDF : 147.6/85

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1311.505 $\pm$ 0.365 χ^2 /NDF: 540698.3/17

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF:1280146.2/24

Right Out: 1363.607 $\pm$ 0.364 χ^2 /NDF: 770764.5/19

Left In: 681.712 $\pm$ 0.118 χ^2 /NDF:1119637.0/22

Left: 683.282 $\pm$ 0.082 χ^2 /NDF: 2400132.5/47

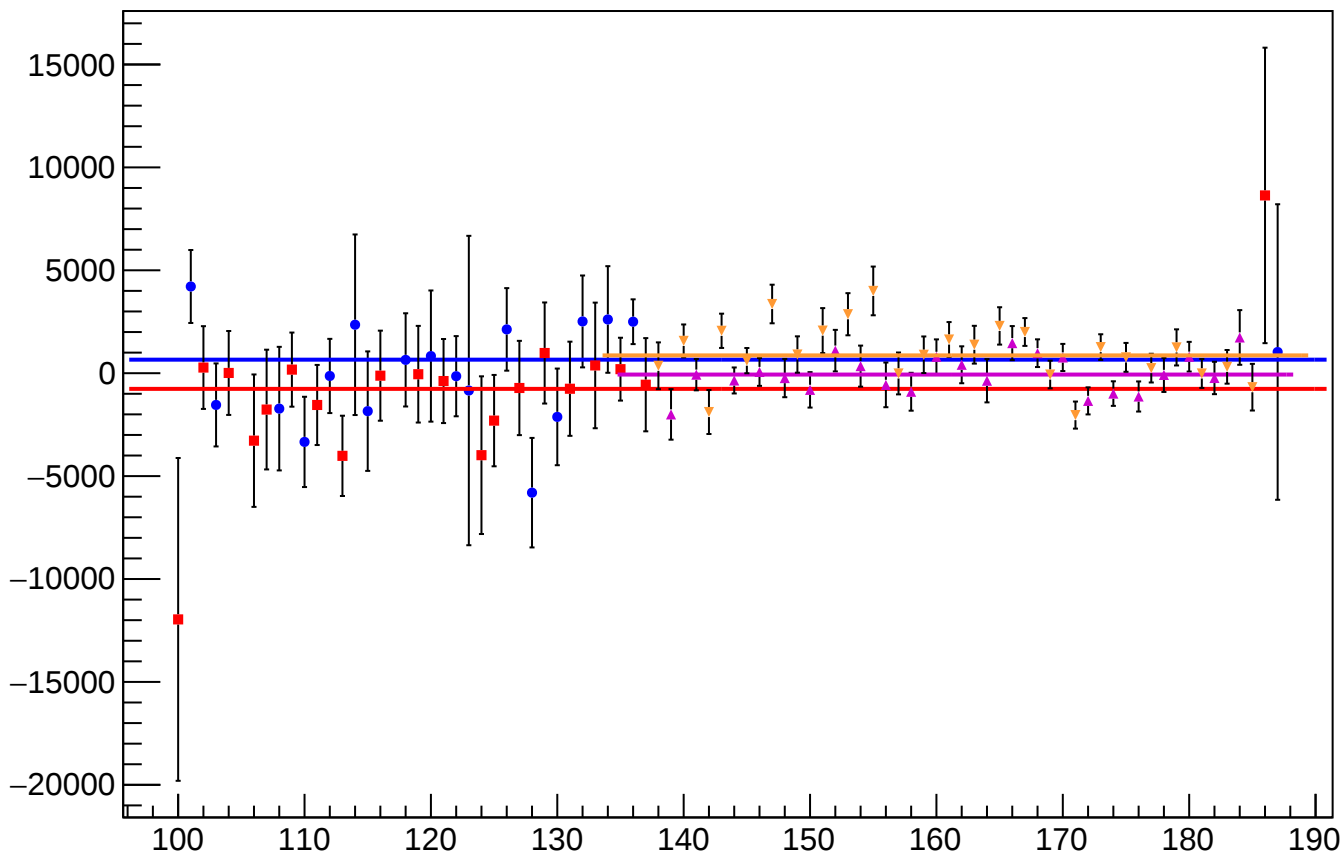
Right: 1337.681 $\pm$ 0.258 χ^2 /NDF: 1321673.2/37

In: 740.724 $\pm$ 0.112 χ^2 /NDF:4351477.2/40

Out: 746.492 $\pm$ 0.110 χ^2 /NDF:5217296.5/44

All: 743.665 $\pm$ 0.078 χ^2 /NDF: 9570129.3/85

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: -761.478 $\pm$ 516.148 χ^2 /NDF: 10.6/19

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

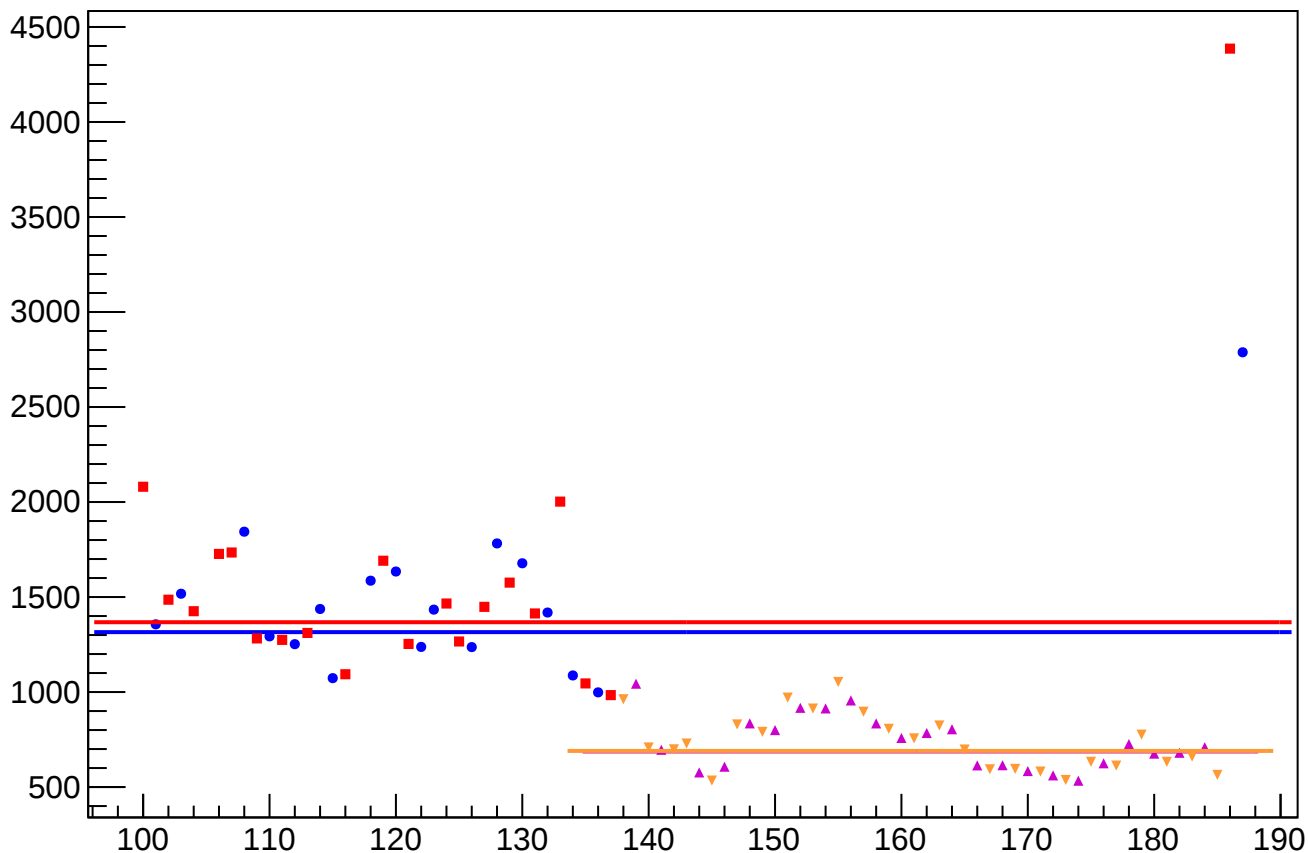
Right: -54.882 $\pm$ 365.744 χ^2 /NDF: 36.8/37

In: 2.486 $\pm$ 159.371 χ^2 /NDF:50.6/40

Out: 716.584 $\pm$ 156.201 χ^2 /NDF:82.4/44

All: 366.709 $\pm$ 111.555 χ^2 /NDF: 143.3/85

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1315.300 $\pm$ 0.367 χ^2 /NDF: 539736.1/17

Left Out: 690.166 $\pm$ 0.116 χ^2 /NDF: 1258158.2/24

Right Out: 1367.441 $\pm$ 0.365 χ^2 /NDF: 777911.1/19

Left In: 687.216 $\pm$ 0.118 χ^2 /NDF: 1099706.1/22

Left: 688.723 $\pm$ 0.083 χ^2 /NDF: 2358181.3/47

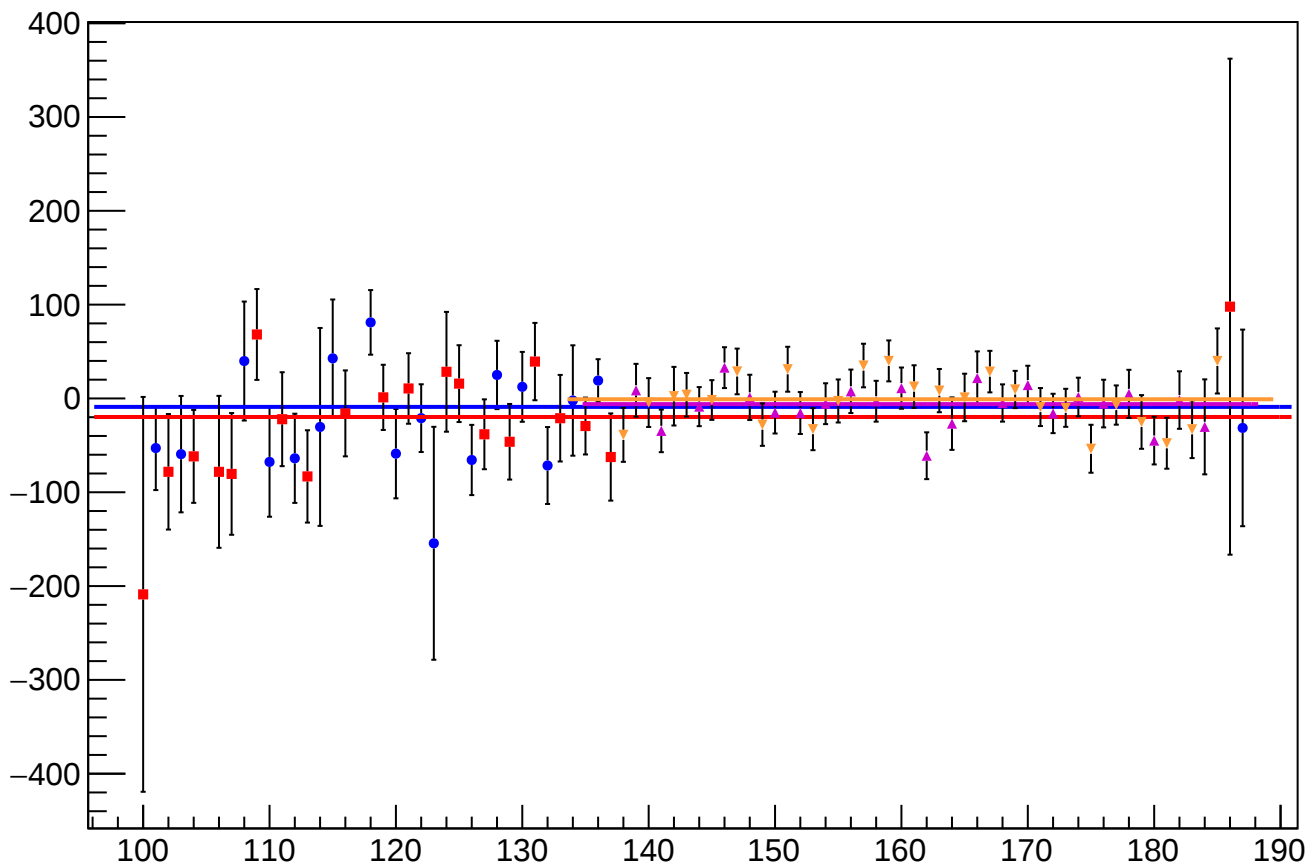
Right: 1341.481 $\pm$ 0.259 χ^2 /NDF: 1327808.7/37

In: 746.592 $\pm$ 0.113 χ^2 /NDF: 4298389.4/40

Out: 752.193 $\pm$ 0.110 χ^2 /NDF: 5164278.3/44

All: 749.449 $\pm$ 0.079 χ^2 /NDF: 9463927.7/85

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: -19.764 ± 10.462 $\chi^2/\text{NDF}: 15.0/19$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

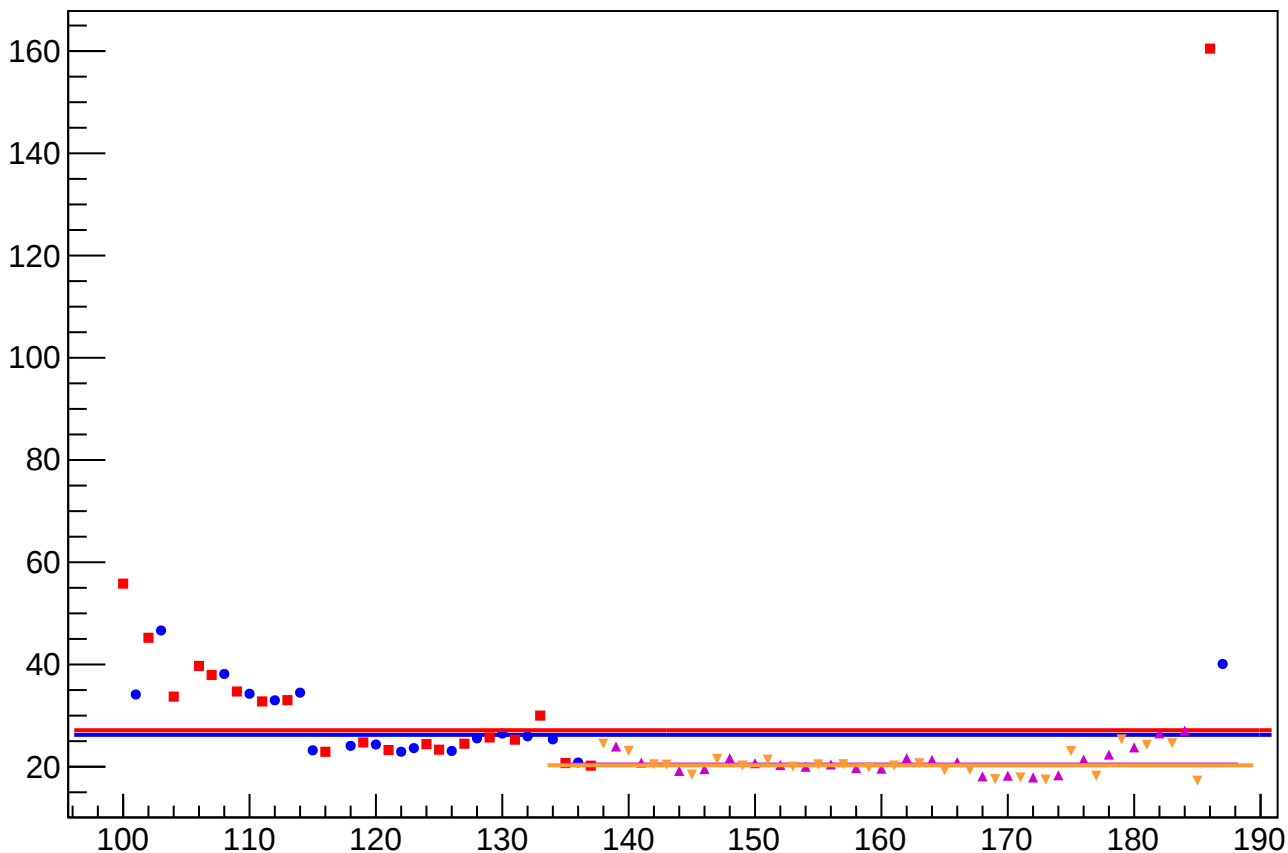
Right: -14.341 ± 7.365 $\chi^2/\text{NDF}: 37.6/37$

In: -6.588 ± 4.449 $\chi^2/\text{NDF}: 39.1/40$

Out: -4.104 ± 4.333 $\chi^2/\text{NDF}: 45.6/44$

All: -5.313 ± 3.104 $\chi^2/\text{NDF}: 84.9/85$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.237 $\pm$ 0.007 χ^2 /NDF: 636872.9/17

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 27.144 $\pm$ 0.007 χ^2 /NDF: 1187603.3/19

Left In: 20.424 $\pm$ 0.003 χ^2 /NDF: 323427.4/22

Left: 20.349 $\pm$ 0.002 χ^2 /NDF: 731373.7/47

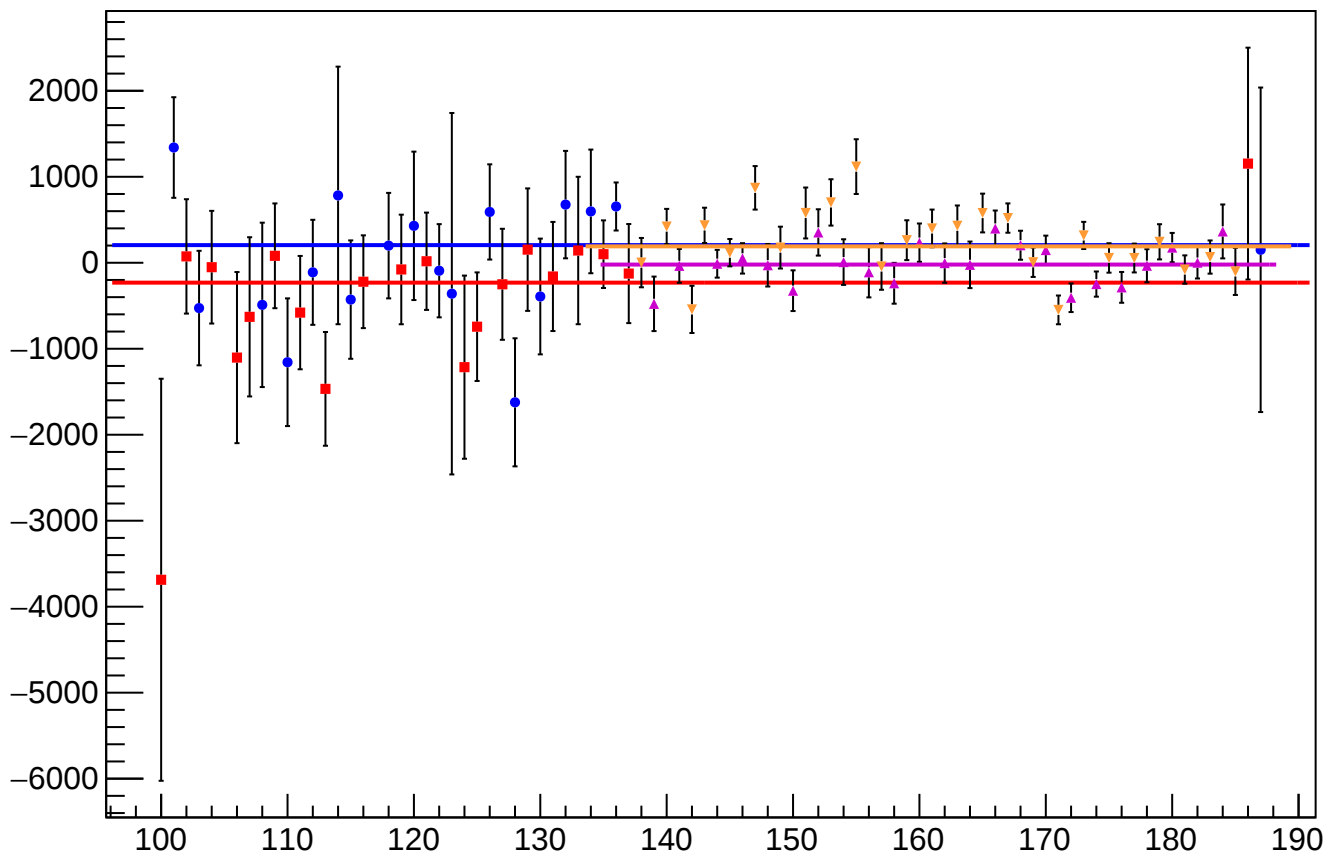
Right: 26.686 $\pm$ 0.005 χ^2 /NDF: 1832057.2/37

In: 21.494 $\pm$ 0.003 χ^2 /NDF: 1472995.5/40

Out: 21.457 $\pm$ 0.003 χ^2 /NDF: 2308076.7/44

All: 21.475 $\pm$ 0.002 χ^2 /NDF: 3781142.2/85

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: -231.151 $\pm$ 149.265 χ^2 /NDF: 11.5/19

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

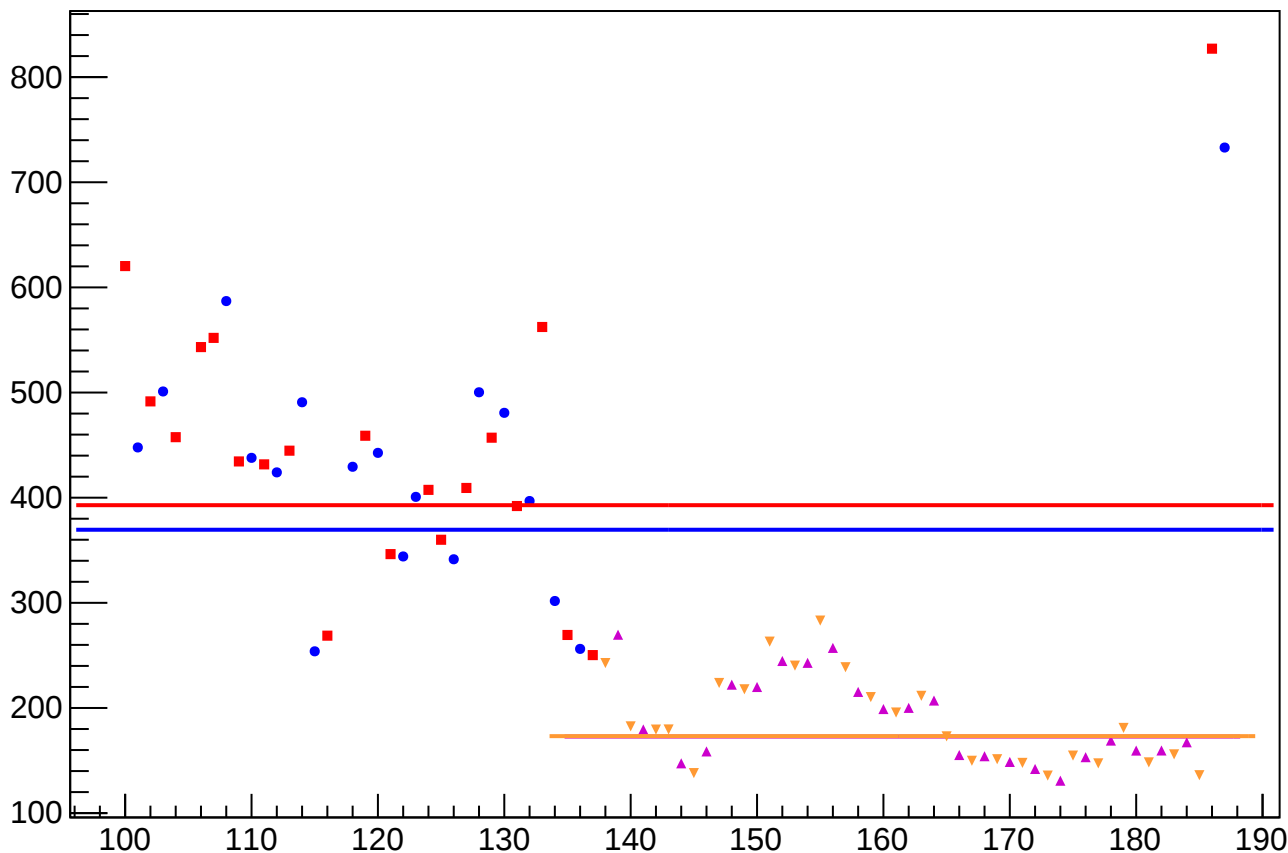
Right: -10.700 $\pm$ 105.003 χ^2 /NDF: 37.1/37

In: -3.862 $\pm$ 40.658 χ^2 /NDF: 51.2/40

Out: 160.838 $\pm$ 39.817 χ^2 /NDF: 86.8/44

All: 80.209 $\pm$ 28.447 χ^2 /NDF: 146.4/85

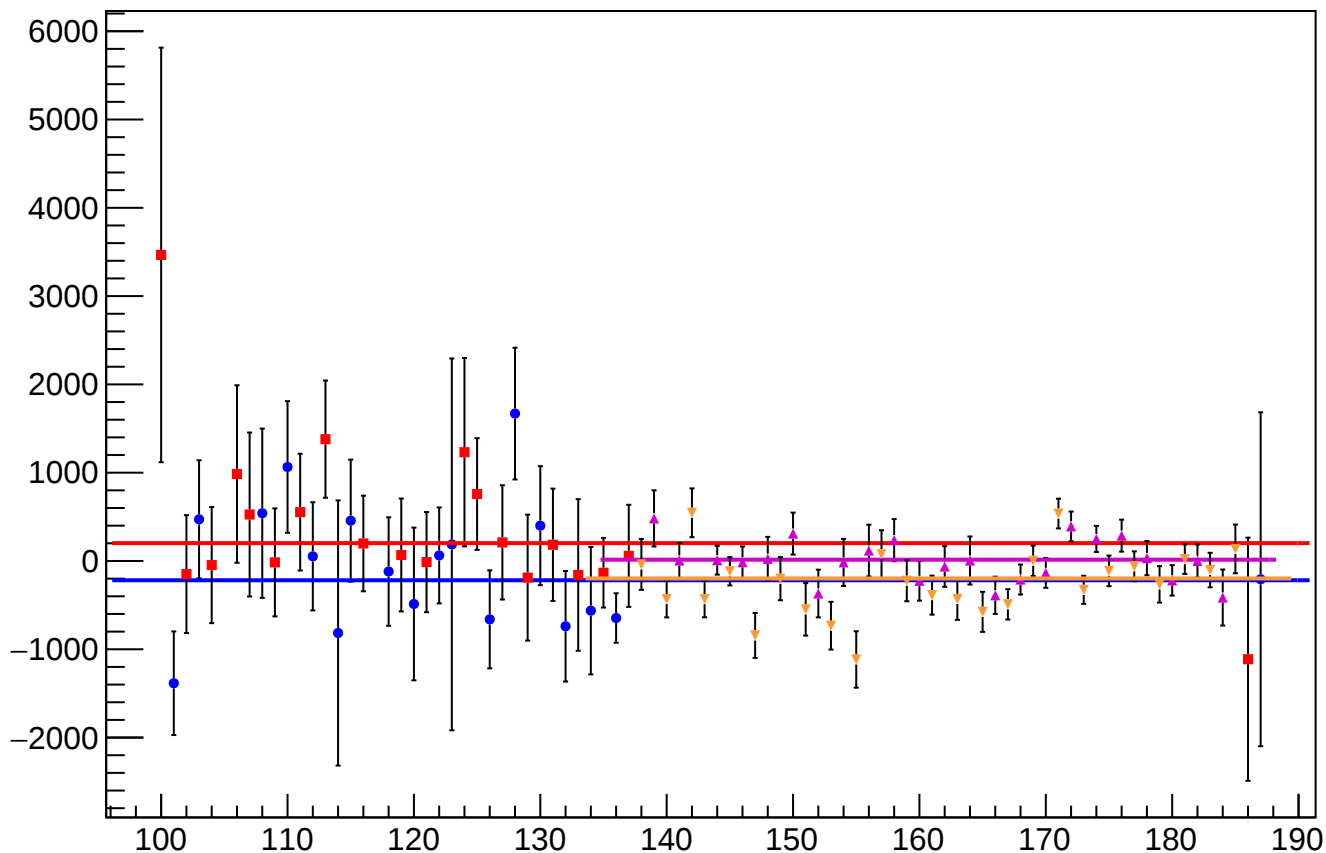
asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



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: 392.867 $\pm$ 0.106 χ^2 /NDF: 984892.6/19
 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: 381.070 $\pm$ 0.074 χ^2 /NDF: 1913875.1/37
 In: 187.723 $\pm$ 0.029 χ^2 /NDF:5552599.7/40
 Out: 188.840 $\pm$ 0.028 χ^2 /NDF:6569080.3/44
 All: 188.293 $\pm$ 0.020 χ^2 /NDF: 12122450.0/85

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: 202.186 ± 149.746 $\chi^2/\text{NDF}: 10.7/19$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

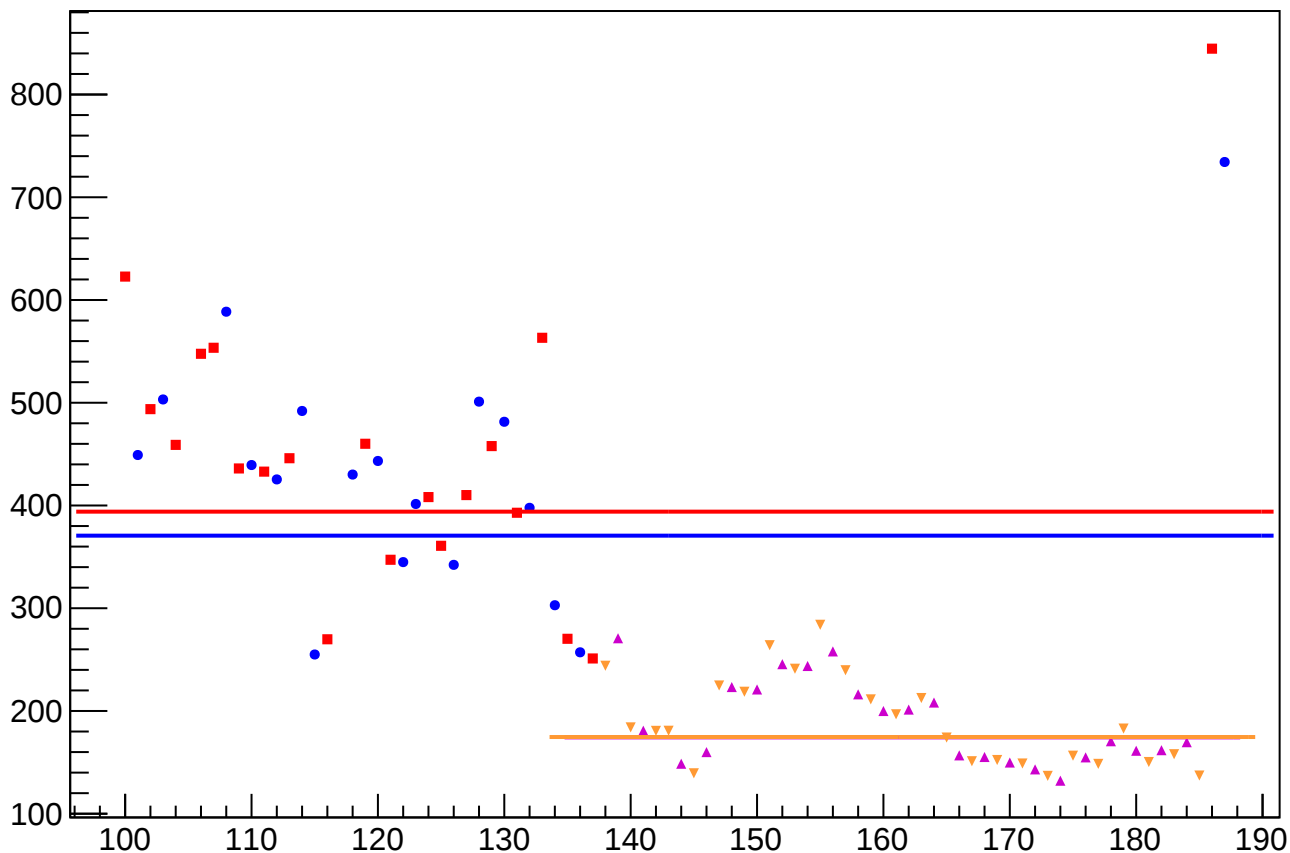
Right: -10.331 ± 105.325 $\chi^2/\text{NDF}: 36.2/37$

In: -3.197 ± 40.968 $\chi^2/\text{NDF}: 51.5/40$

Out: -169.203 ± 40.116 $\chi^2/\text{NDF}: 81.6/44$

All: -87.943 ± 28.663 $\chi^2/\text{NDF}: 141.4/85$

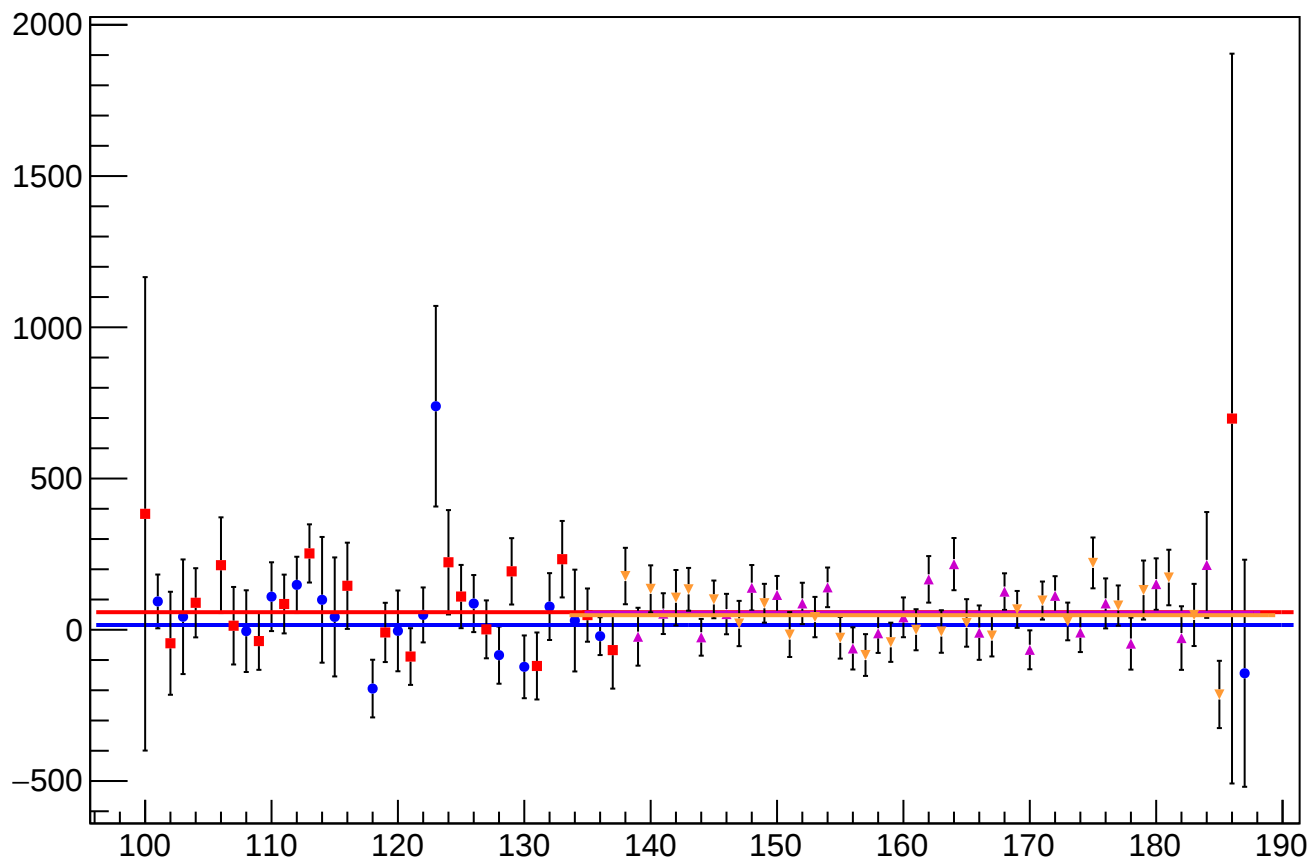
asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



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: 394.004 $\pm$ 0.106 χ^2 /NDF: 991868.7/19
 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: 382.198 $\pm$ 0.074 χ^2 /NDF: 1917906.6/37
 In: 189.298 $\pm$ 0.029 χ^2 /NDF:5489861.3/40
 Out: 190.390 $\pm$ 0.028 χ^2 /NDF:6507460.3/44
 All: 189.856 $\pm$ 0.020 χ^2 /NDF: 11998047.1/85

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 15.773 $\pm$ 26.312 χ^2 /NDF: 17.8/17

Left Out: 48.233 $\pm$ 14.616 χ^2 /NDF: 29.3/24

Right Out: 58.141 $\pm$ 26.190 χ^2 /NDF: 18.9/19

Left In: 56.403 $\pm$ 15.182 χ^2 /NDF: 27.5/22

Left: 52.163 $\pm$ 10.529 χ^2 /NDF: 56.9/47

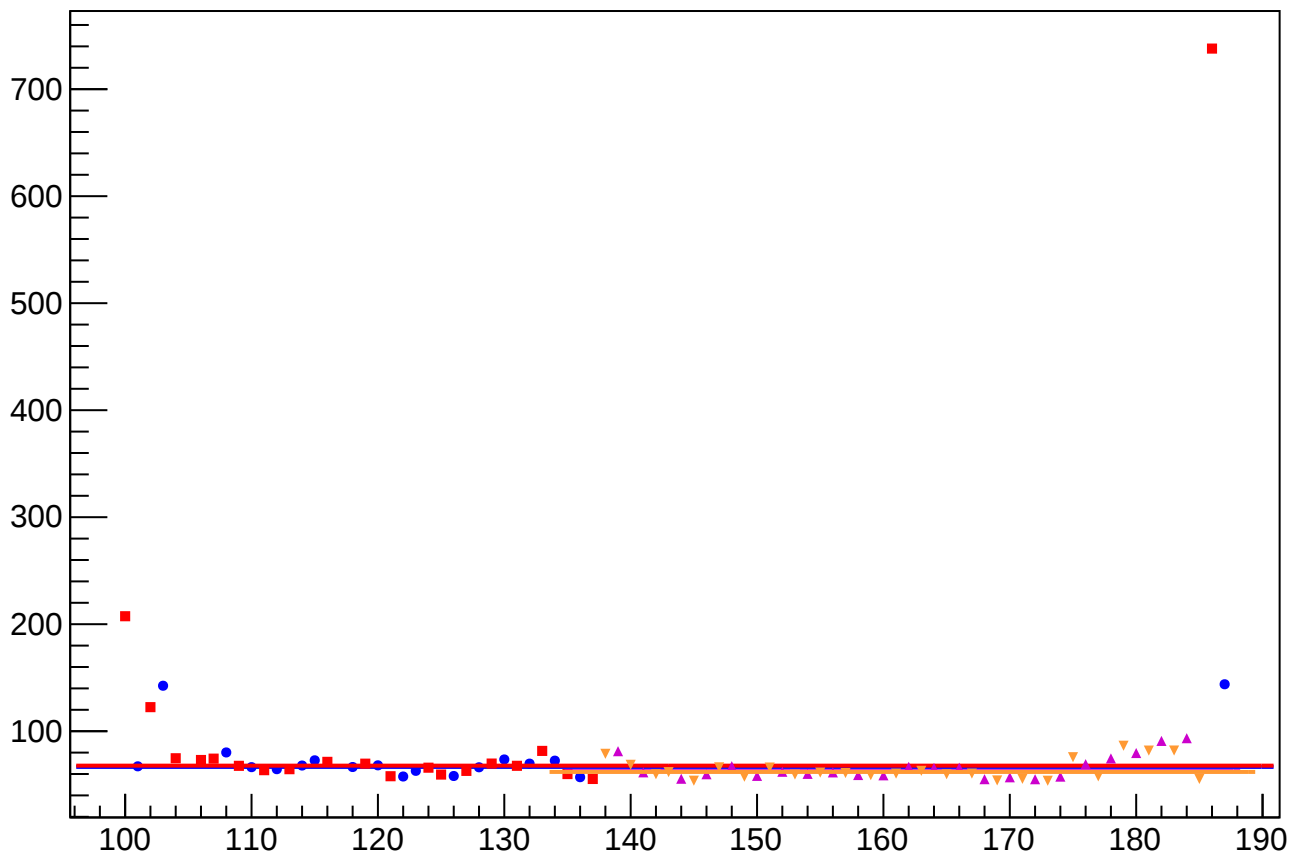
Right: 37.056 $\pm$ 18.562 χ^2 /NDF: 38.0/37

In: 46.255 $\pm$ 13.150 χ^2 /NDF: 47.0/40

Out: 50.586 $\pm$ 12.763 χ^2 /NDF: 48.3/44

All: 48.485 $\pm$ 9.158 χ^2 /NDF: 95.4/85

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: 67.809+/-0.019 χ^2/NDF : 1009744.1/19

Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47

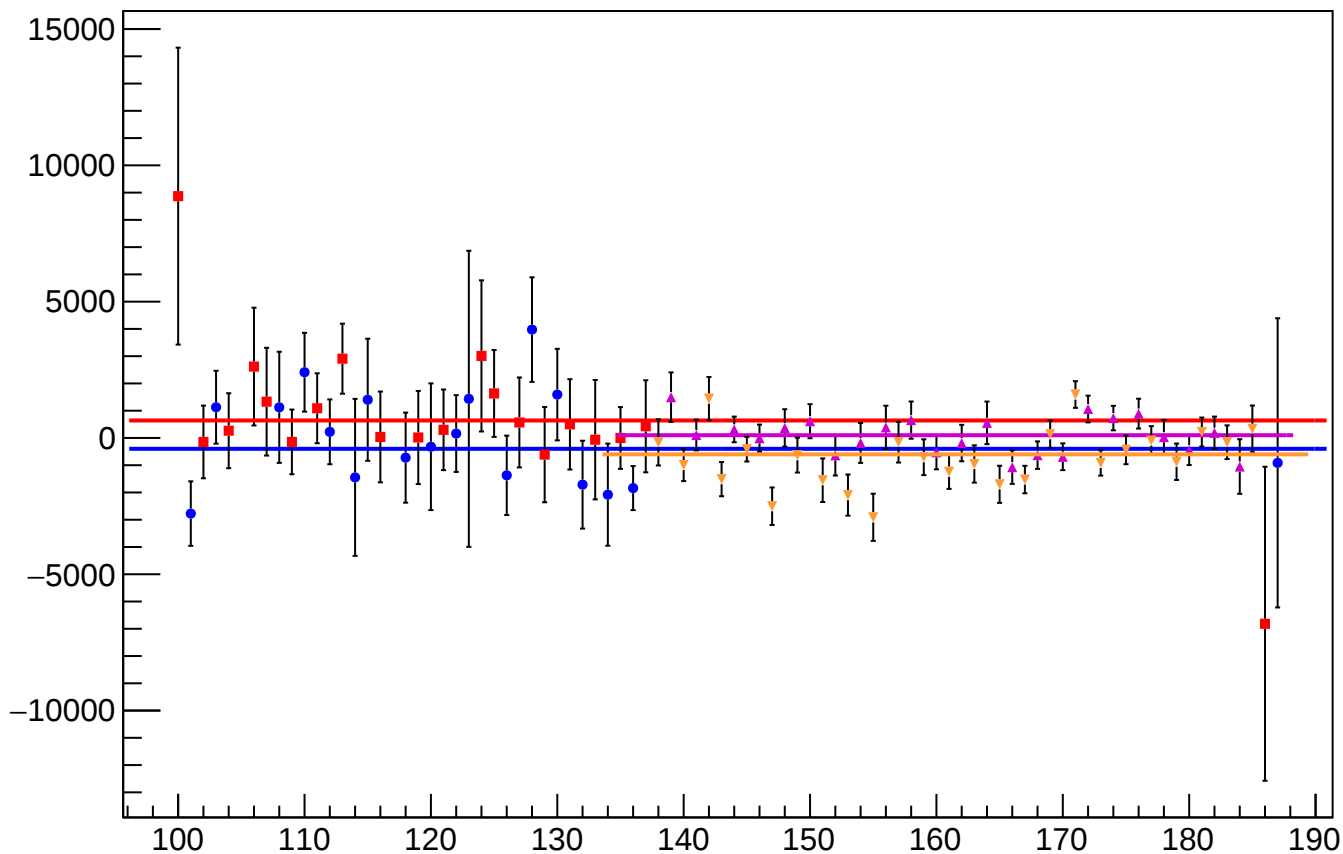
Right: 67.224+/-0.013 χ^2/NDF : 1536465.5/37

In: 63.613+/-0.009 χ^2/NDF : 1135374.6/40

Out: 63.339+/-0.009 χ^2/NDF : 1691154.9/44

All: 63.472+/-0.006 χ^2/NDF : 2826977.0/85

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: 640.897+/-361.975 χ^2/NDF : 11.4/19

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

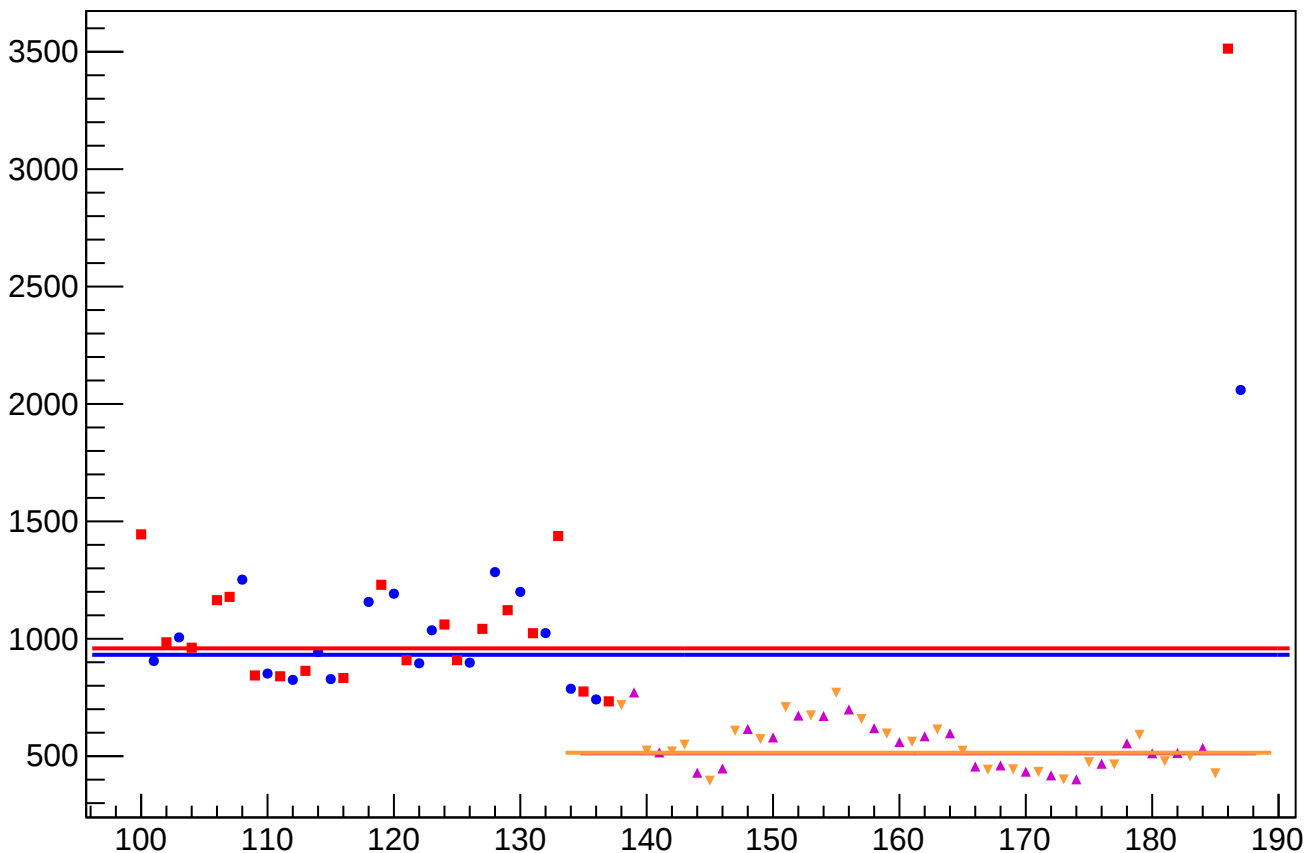
Right: 127.701+/-257.512 χ^2/NDF : 38.2/37

In: 48.764+/-118.072 χ^2/NDF : 49.9/40

Out: -474.532+/-115.711 χ^2/NDF : 87.4/44

All: -218.168+/-82.642 χ^2/NDF : 147.3/85

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: 959.108 $\pm$ 0.256 χ^2 /NDF: 777784.7/19

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

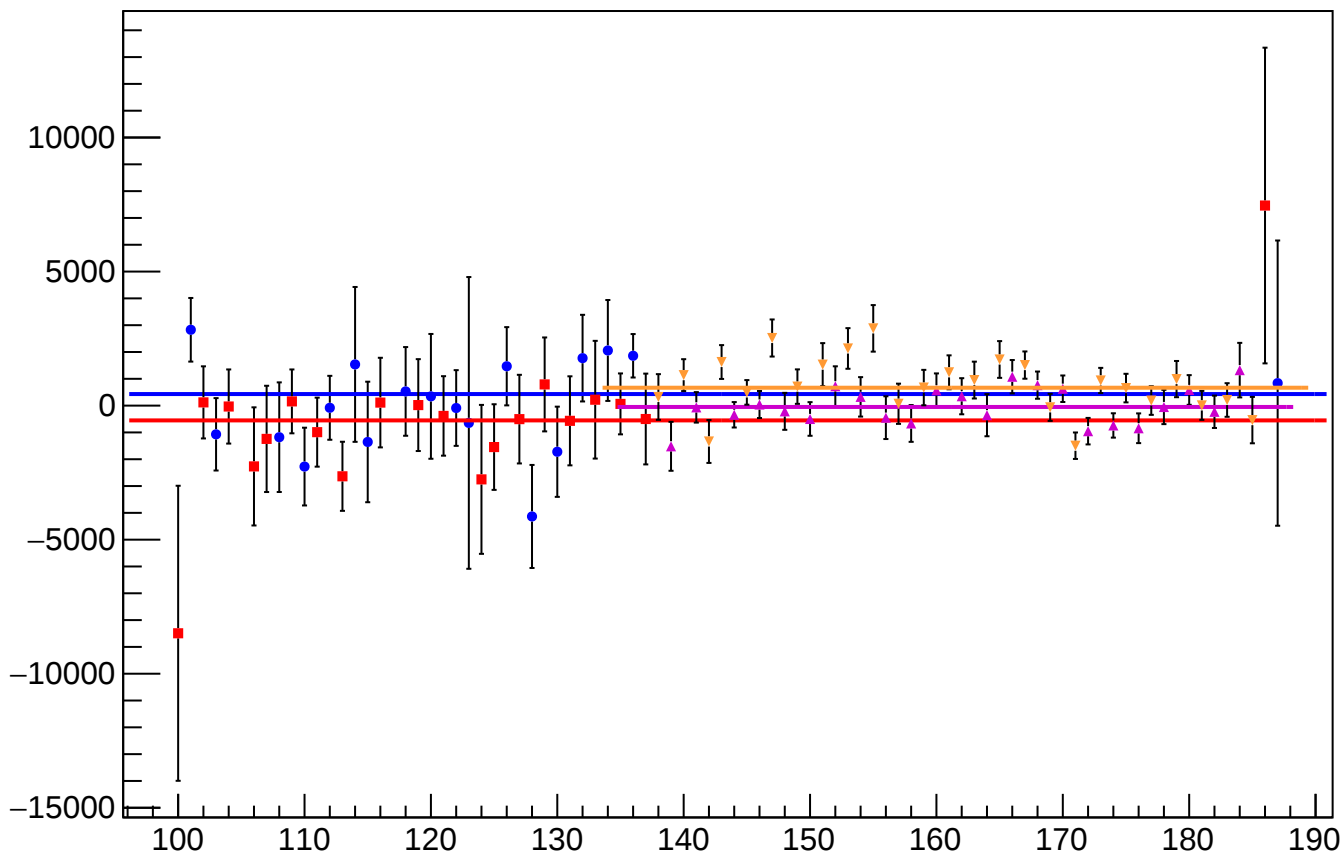
Right: 945.594 $\pm$ 0.182 χ^2 /NDF: 1270088.9/37

In: 555.762 $\pm$ 0.083 χ^2 /NDF: 3877738.8/40

Out: 560.164 $\pm$ 0.082 χ^2 /NDF: 4678612.9/44

All: 558.008 $\pm$ 0.058 χ^2 /NDF: 8557769.6/85

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: -551.523+/-363.444 χ^2/NDF : 10.4/19

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

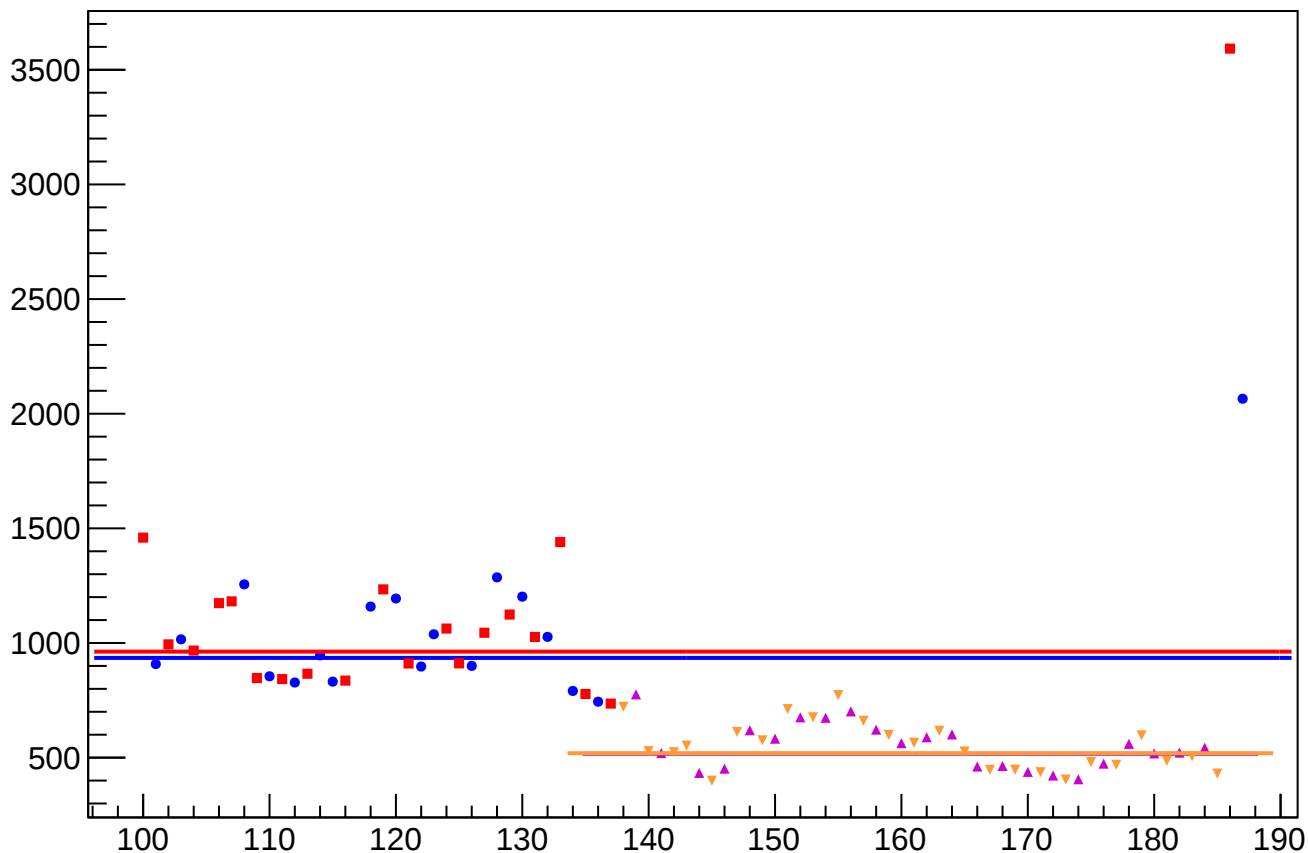
Right: -65.789+/-258.474 χ^2/NDF : 37.0/37

In: 0.374+/-119.030 χ^2/NDF : 50.5/40

Out: 542.074+/-116.632 χ^2/NDF : 82.0/44

All: 276.734+/-83.306 χ^2/NDF : 143.1/85

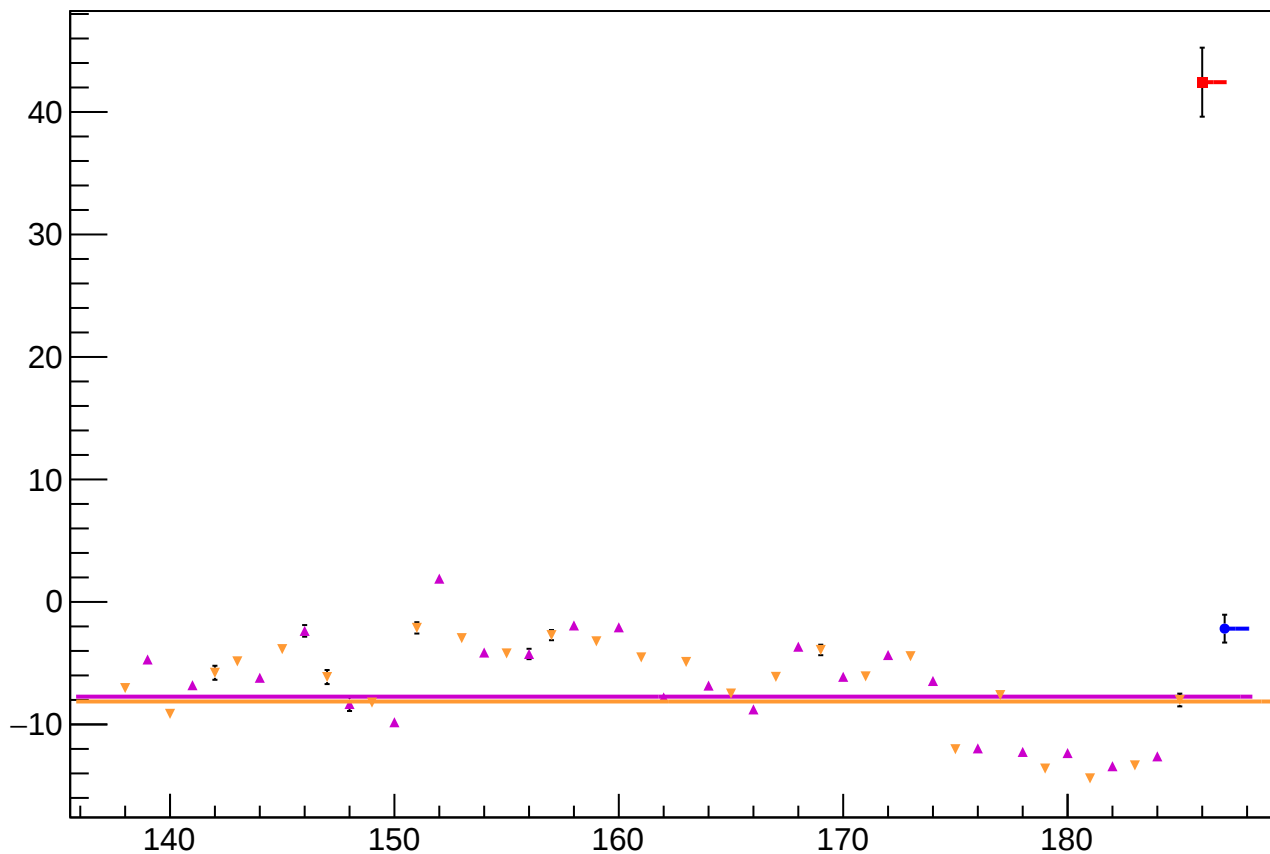
asym_sam_12345678_avg_rms vs Slug, Sign Corrected



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: 962.342 ± 0.257 $\chi^2/\text{NDF}: 783756.2/19$
 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: 948.816 ± 0.183 $\chi^2/\text{NDF}: 1275005.4/37$
 In: 560.621 ± 0.084 $\chi^2/\text{NDF}: 3823160.6/40$
 Out: 564.884 ± 0.082 $\chi^2/\text{NDF}: 4622631.5/44$
 All: 562.796 ± 0.059 $\chi^2/\text{NDF}: 8447100.9/85$

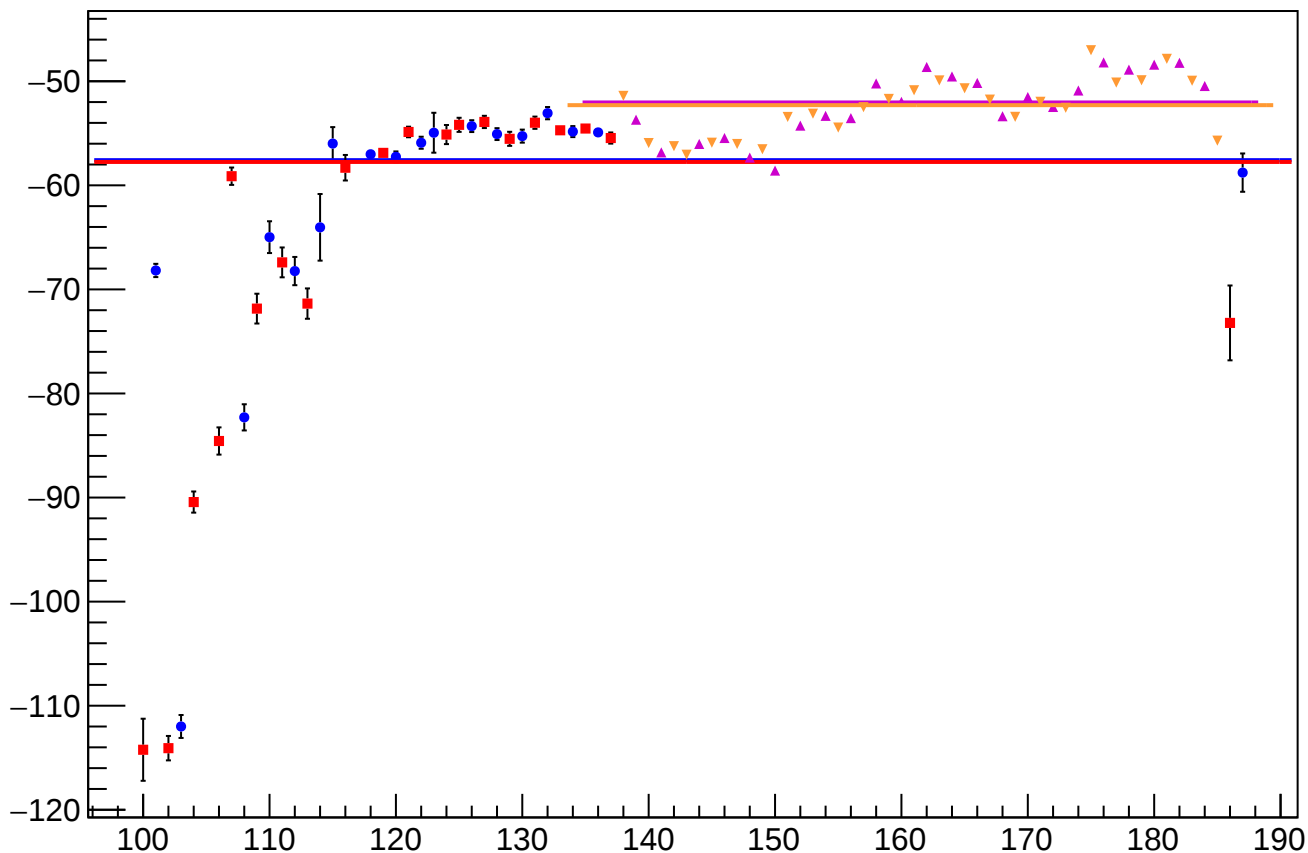
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.180 ± 1.137 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$
 Right Out: 42.434 ± 2.817 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -7.732 ± 0.069 $\chi^2/\text{NDF}: 3719.0/22$

Left: -7.934 ± 0.048 $\chi^2/\text{NDF}: 7371.4/47$
 Right: 4.065 ± 1.054 $\chi^2/\text{NDF}: 215.6/1$
 In: -7.712 ± 0.069 $\chi^2/\text{NDF}: 3742.8/23$
 Out: -8.098 ± 0.067 $\chi^2/\text{NDF}: 3957.4/25$
 All: -7.909 ± 0.048 $\chi^2/\text{NDF}: 7716.3/49$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.581 ± 0.143 χ^2/NDF : 3458.6/17

Left Out: -52.297 ± 0.055 χ^2/NDF : 2657.5/24

Right Out: -57.753 ± 0.143 χ^2/NDF : 4719.1/19

Left In: -52.038 ± 0.057 χ^2/NDF : 3180.4/22

Left: -52.172 ± 0.040 χ^2/NDF : 5848.6/47

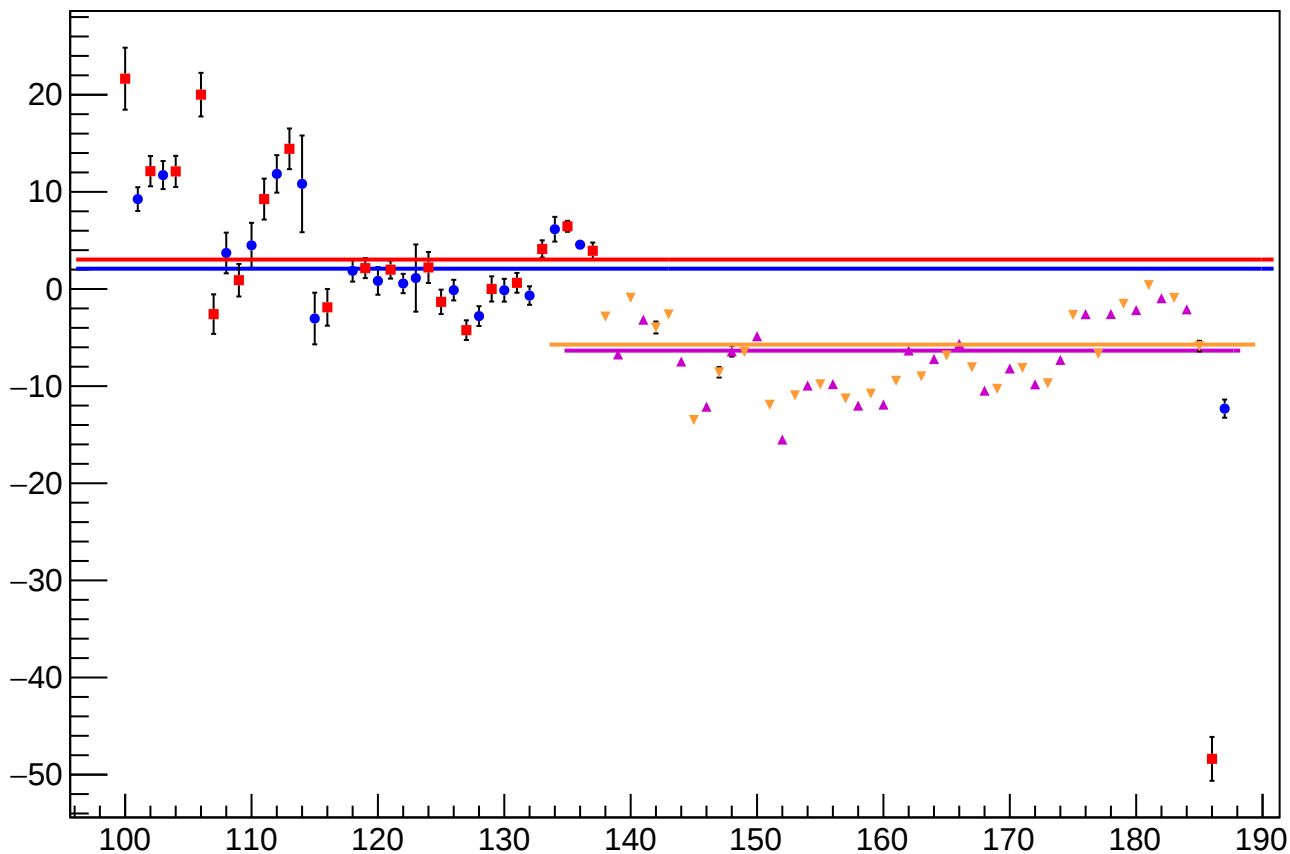
Right: -57.667 ± 0.101 χ^2/NDF : 8178.4/37

In: -52.804 ± 0.053 χ^2/NDF : 7938.4/40

Out: -53.001 ± 0.051 χ^2/NDF : 8643.3/44

All: -52.905 ± 0.037 χ^2/NDF : 16588.8/85

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: 3.034 ± 0.266 $\chi^2/\text{NDF}: 846.2/19$

Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$

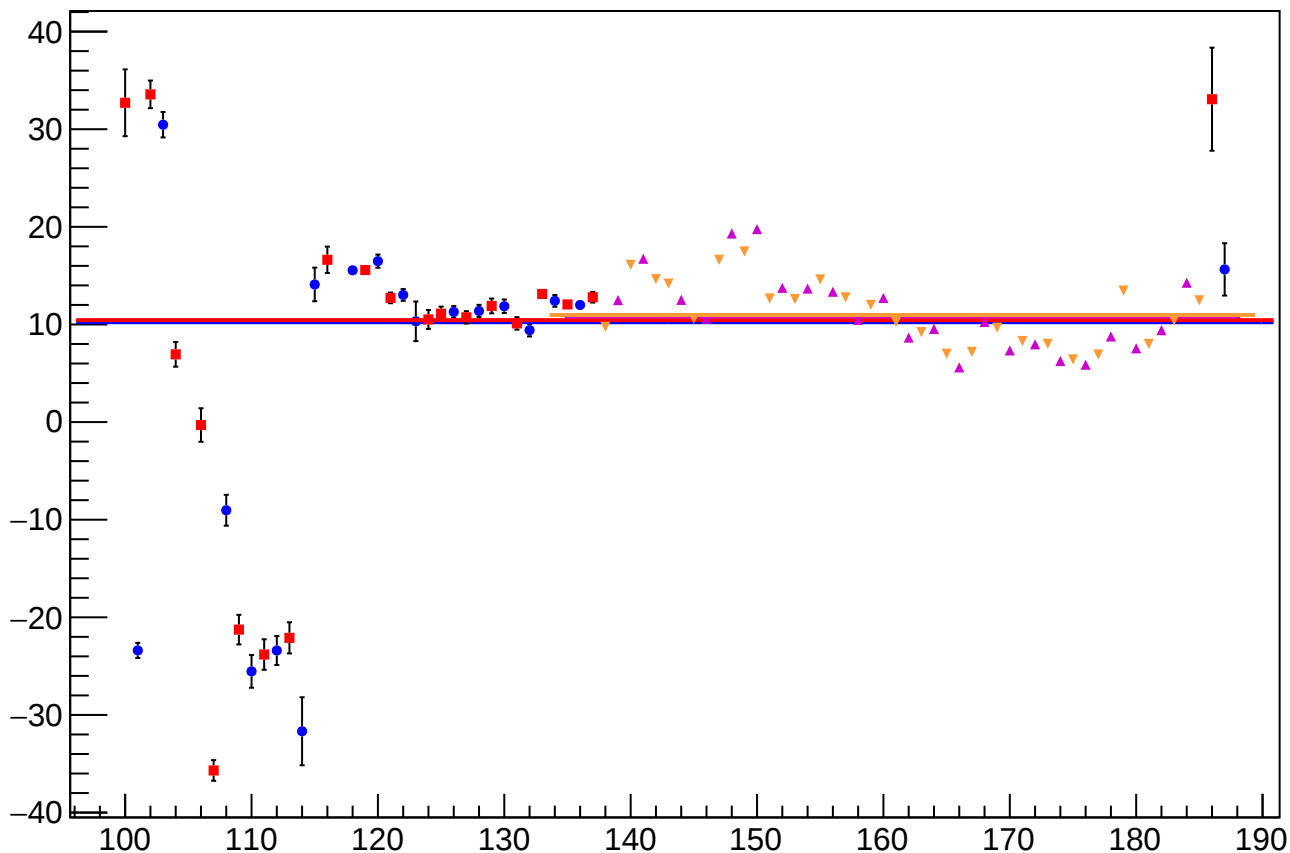
Right: 2.533 ± 0.182 $\chi^2/\text{NDF}: 1293.4/37$

In: -5.752 ± 0.066 $\chi^2/\text{NDF}: 4884.3/40$

Out: -5.192 ± 0.065 $\chi^2/\text{NDF}: 5845.9/44$

All: -5.469 ± 0.047 $\chi^2/\text{NDF}: 10766.5/85$

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: 10.443 $\pm$ 0.160 χ^2 /NDF: 3844.6/19

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

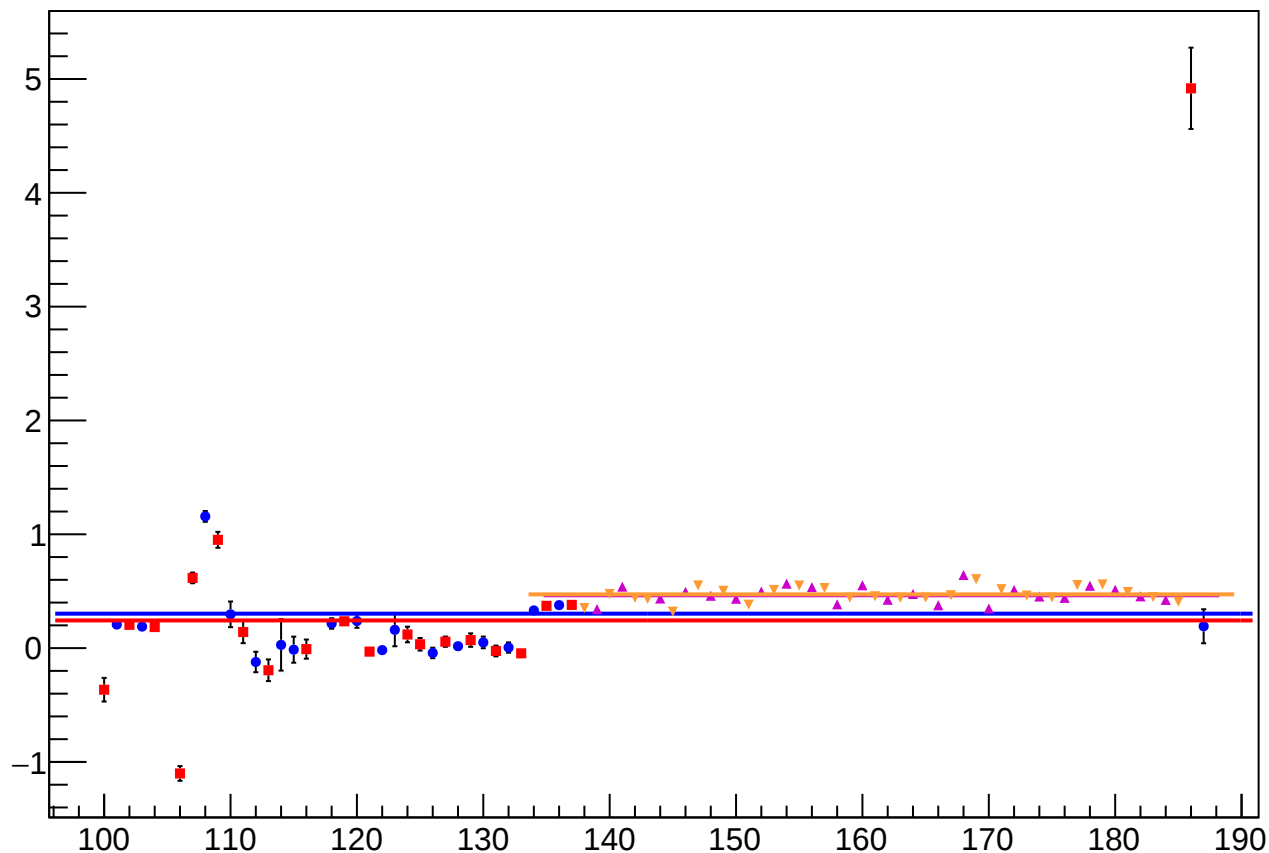
Right: 10.336 $\pm$ 0.112 χ^2 /NDF: 7529.6/37

In: 10.733 $\pm$ 0.059 χ^2 /NDF:7242.6/40

Out: 10.900 $\pm$ 0.057 χ^2 /NDF:6491.7/44

All: 10.819 $\pm$ 0.041 χ^2 /NDF: 13738.4/85

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.303 ± 0.008 χ^2/NDF : 647.8/17

Left Out: 0.472 ± 0.003 χ^2/NDF : 519.0/24

Right Out: 0.243 ± 0.009 χ^2/NDF : 1154.6/19

Left In: 0.464 ± 0.003 χ^2/NDF : 733.1/22

Left: 0.468 ± 0.002 χ^2/NDF : 1256.2/47

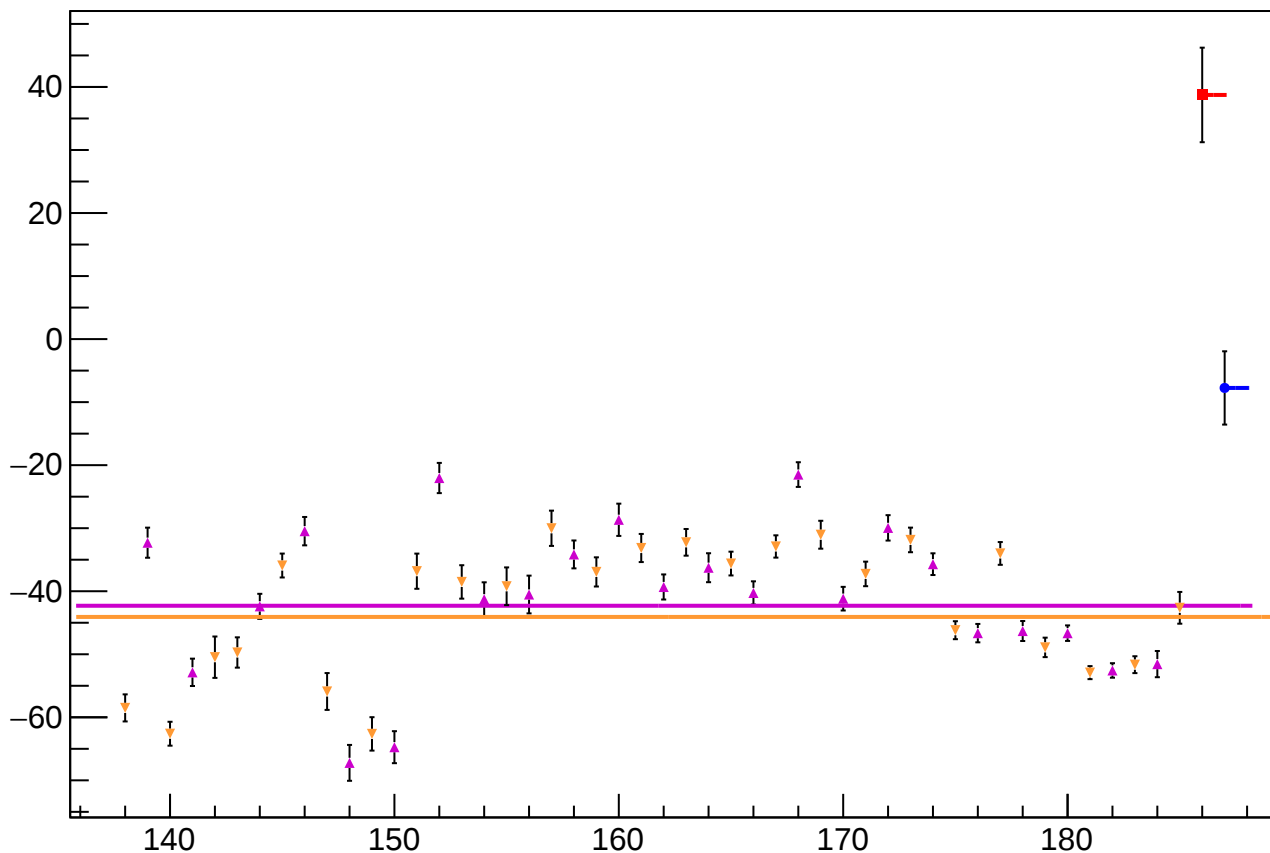
Right: 0.274 ± 0.006 χ^2/NDF : 1827.7/37

In: 0.448 ± 0.003 χ^2/NDF : 1728.1/40

Out: 0.451 ± 0.003 χ^2/NDF : 2326.3/44

All: 0.449 ± 0.002 χ^2/NDF : 4055.0/85

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



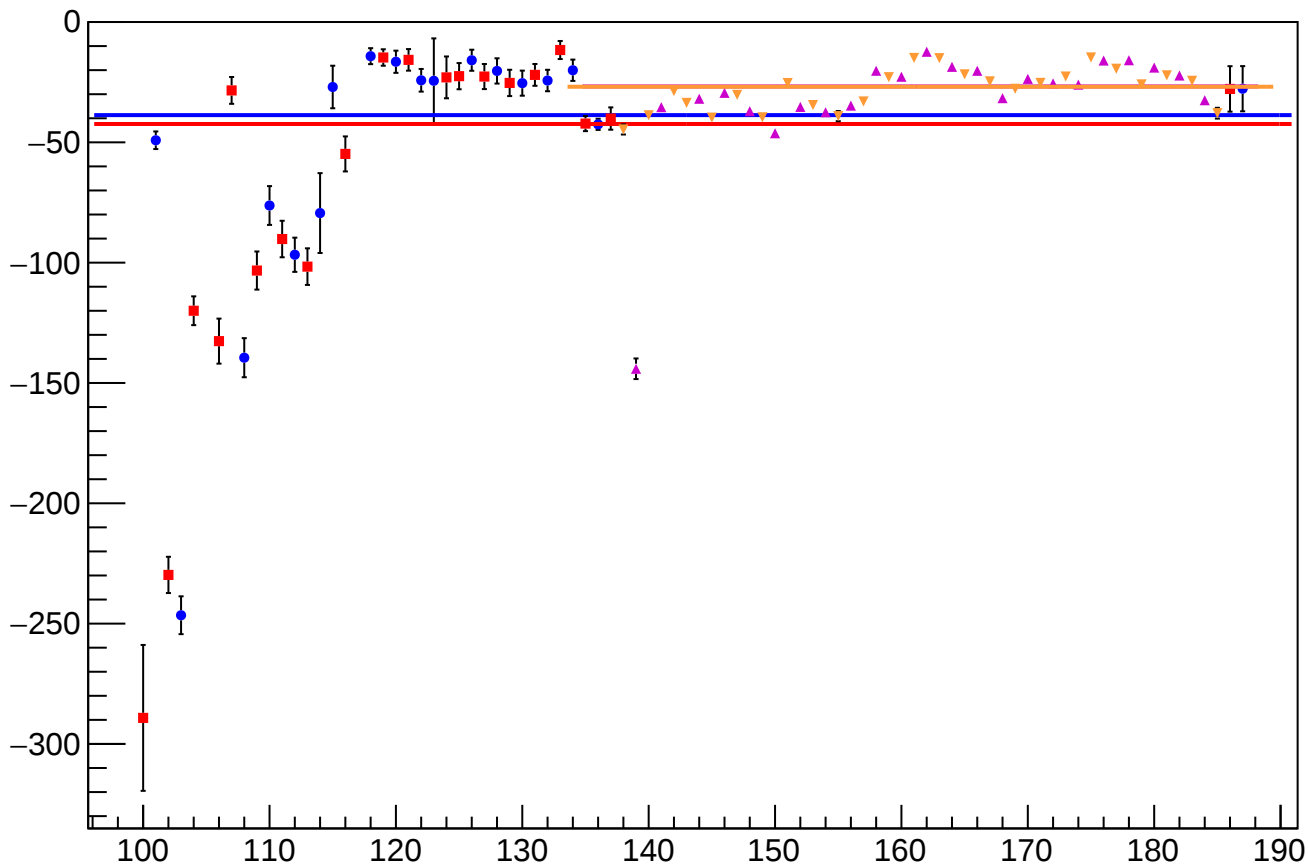
Right In: -7.749 ± 5.815 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: 38.733 ± 7.499 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$
 Right: 9.705 ± 4.595 $\chi^2/\text{NDF}: 24.0/1$

In: -42.142 ± 0.398 $\chi^2/\text{NDF}: 675.8/23$
 Out: -43.856 ± 0.388 $\chi^2/\text{NDF}: 754.2/25$

All: -43.021 ± 0.278 $\chi^2/\text{NDF}: 1439.4/49$

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: -42.376 ± 1.202 $\chi^2/\text{NDF}: 1348.0/19$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

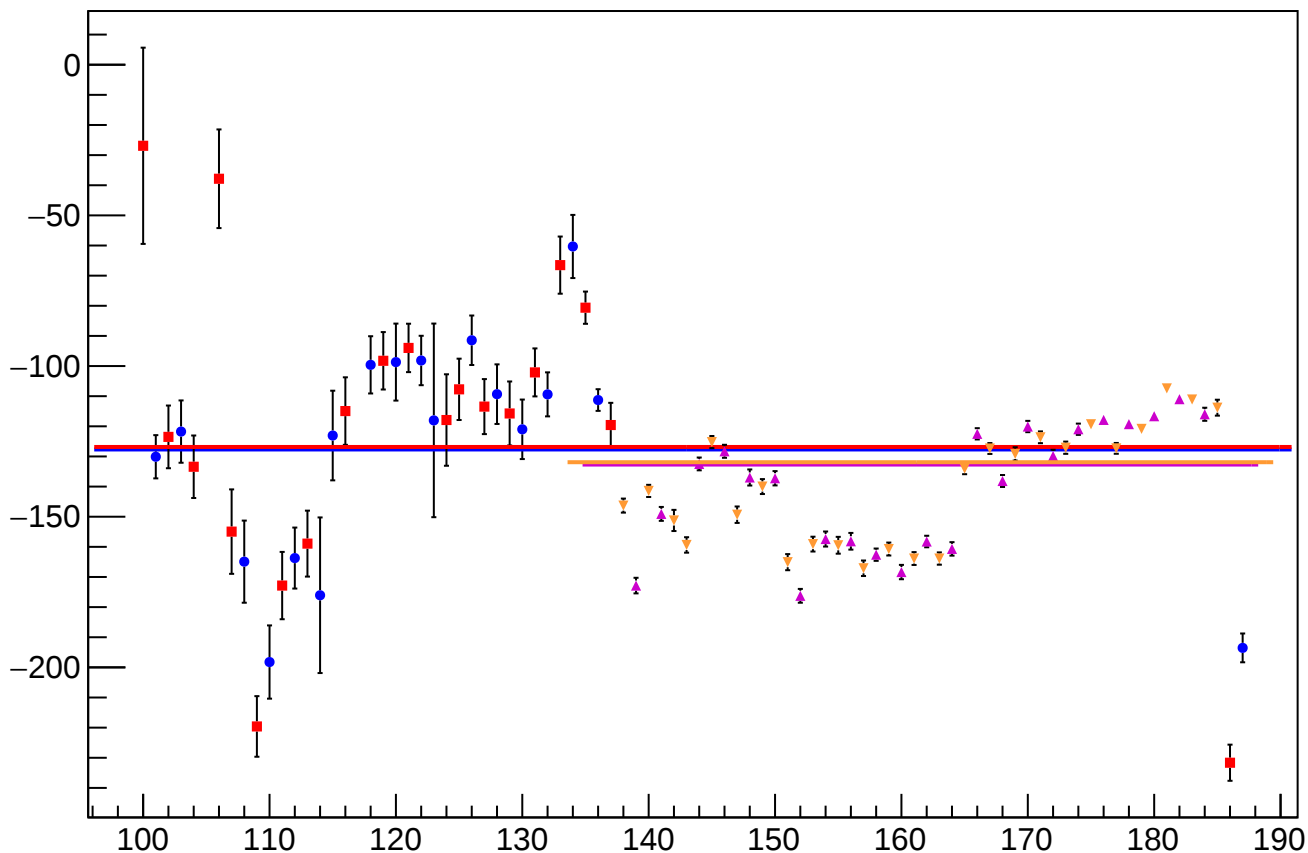
Right: -40.436 ± 0.828 $\chi^2/\text{NDF}: 2476.1/37$

In: -27.674 ± 0.314 $\chi^2/\text{NDF}: 2618.4/40$

Out: -27.904 ± 0.306 $\chi^2/\text{NDF}: 2134.0/44$

All: -27.792 ± 0.219 $\chi^2/\text{NDF}: 4752.7/85$

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: -126.855 $\pm$ 2.076 χ^2 /NDF: 619.2/19

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

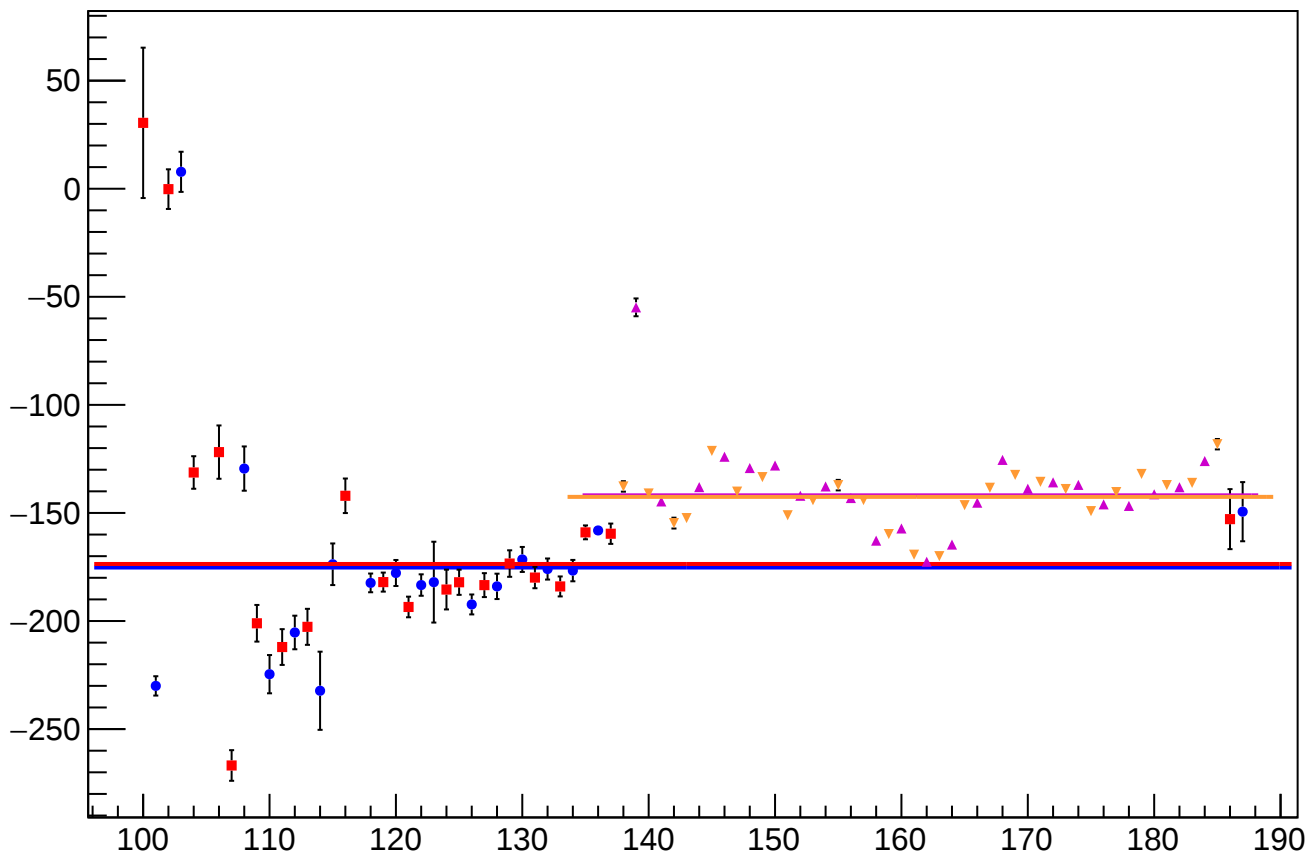
Right: -127.303 $\pm$ 1.406 χ^2 /NDF: 985.8/37

In: -132.480 $\pm$ 0.391 χ^2 /NDF:2853.3/40

Out: -131.739 $\pm$ 0.385 χ^2 /NDF:3064.3/44

All: -132.103 $\pm$ 0.274 χ^2 /NDF: 5919.4/85

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: -173.610 ± 1.352 χ^2/NDF : 740.2/19

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

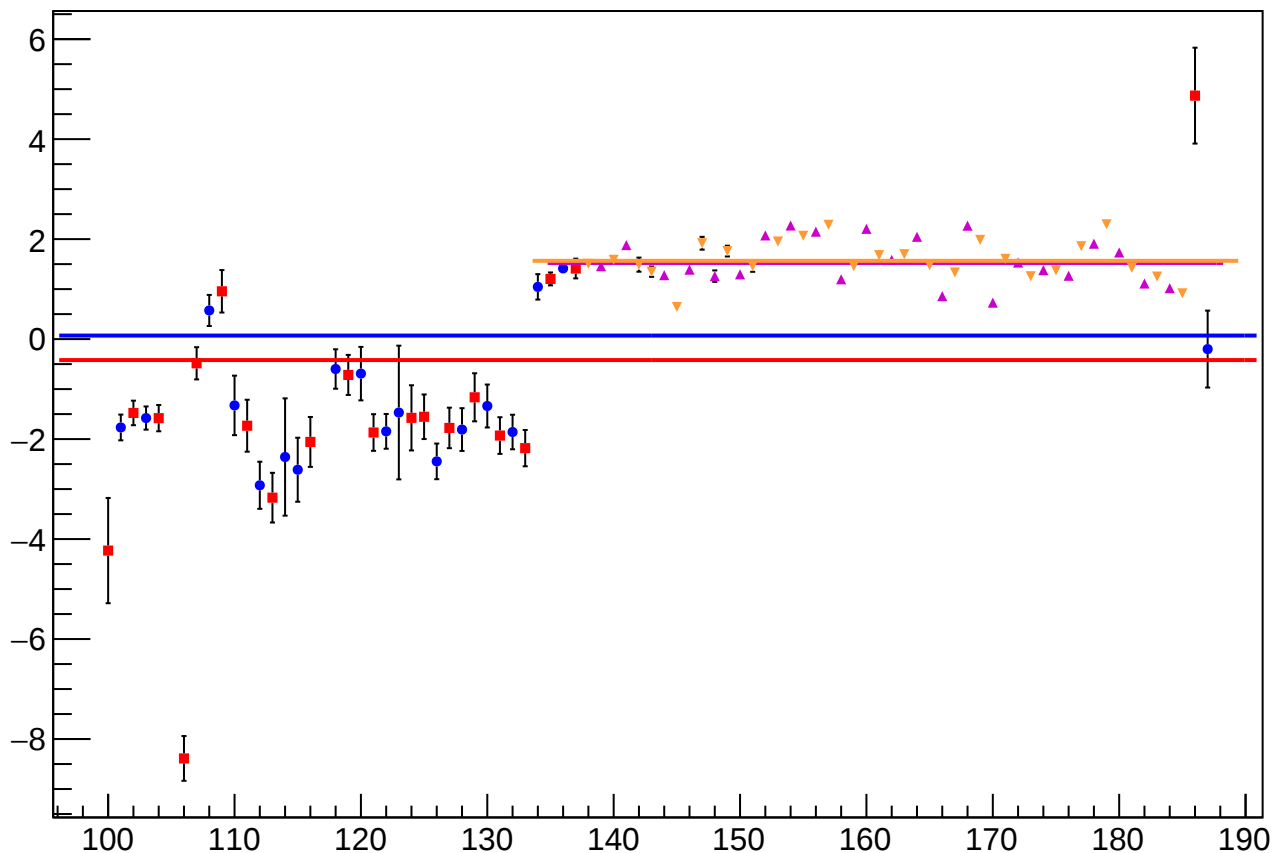
Right: -174.480 ± 0.927 χ^2/NDF : 1435.8/37

In: -144.376 ± 0.350 χ^2/NDF : 2875.0/40

Out: -144.555 ± 0.342 χ^2/NDF : 2381.2/44

All: -144.468 ± 0.245 χ^2/NDF : 5256.3/85

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.071 $\pm$ 0.067 χ^2 /NDF: 525.3/17

Left Out: 1.566 $\pm$ 0.016 χ^2 /NDF: 542.8/24

Right Out: -0.420 $\pm$ 0.071 χ^2 /NDF: 781.3/19

Left In: 1.523 $\pm$ 0.017 χ^2 /NDF: 738.5/22

Left: 1.545 $\pm$ 0.012 χ^2 /NDF: 1284.8/47

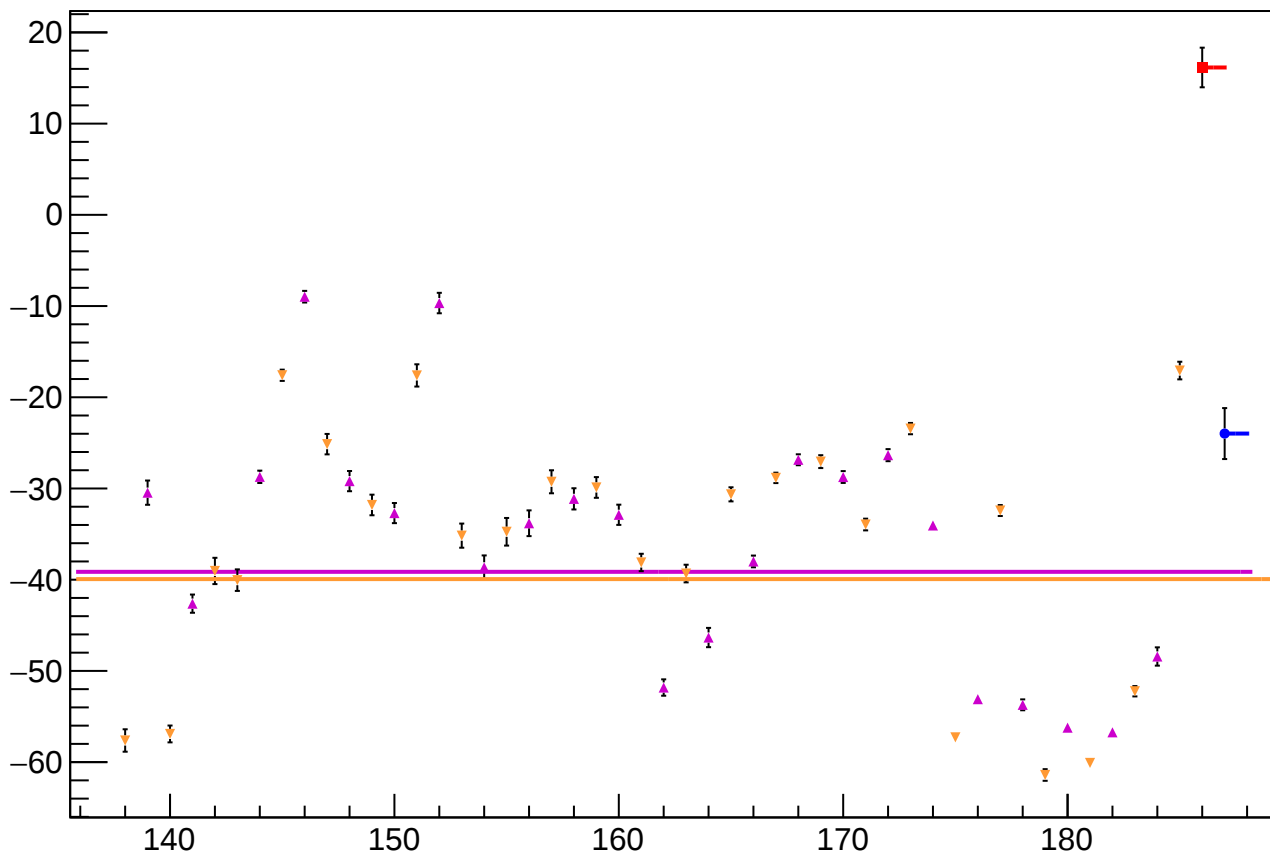
Right: -0.159 $\pm$ 0.049 χ^2 /NDF: 1331.7/37

In: 1.440 $\pm$ 0.016 χ^2 /NDF: 1707.6/40

Out: 1.469 $\pm$ 0.016 χ^2 /NDF: 2063.7/44

All: 1.454 $\pm$ 0.011 χ^2 /NDF: 3772.9/85

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



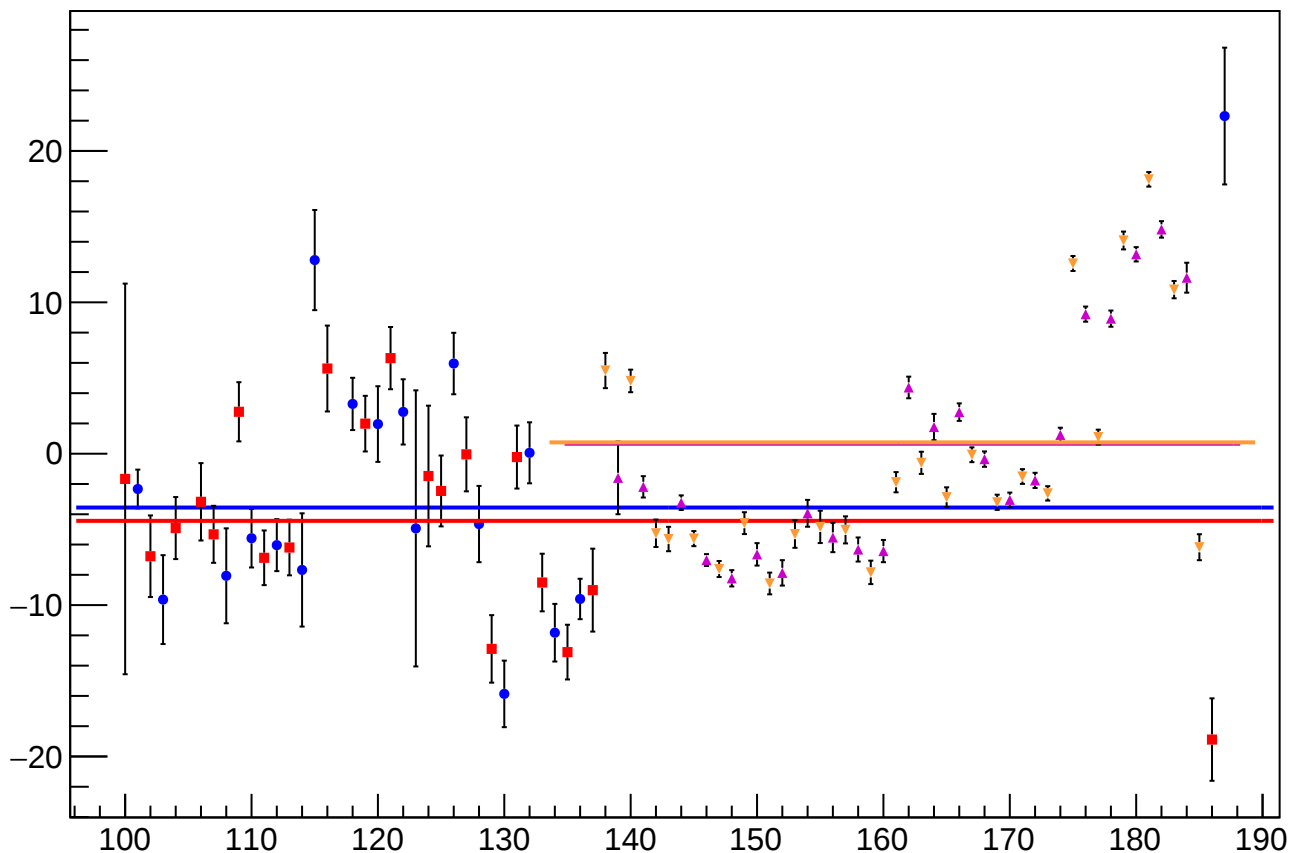
Right In: -23.980 ± 2.794 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$
 Right Out: 16.154 ± 2.172 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$
 Right: 1.032 ± 1.715 $\chi^2/\text{NDF}: 128.6/1$

In: -39.091 ± 0.154 $\chi^2/\text{NDF}: 8563.9/23$
 Out: -39.657 ± 0.153 $\chi^2/\text{NDF}: 10470.0/25$

All: -39.377 ± 0.109 $\chi^2/\text{NDF}: 19040.6/49$

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: -4.435 ± 0.499 χ^2/NDF : 151.2/19

Left In: 0.660 ± 0.124 χ^2/NDF : 3337.8/22

Left: 0.705 ± 0.088 χ^2/NDF : 7308.9/47

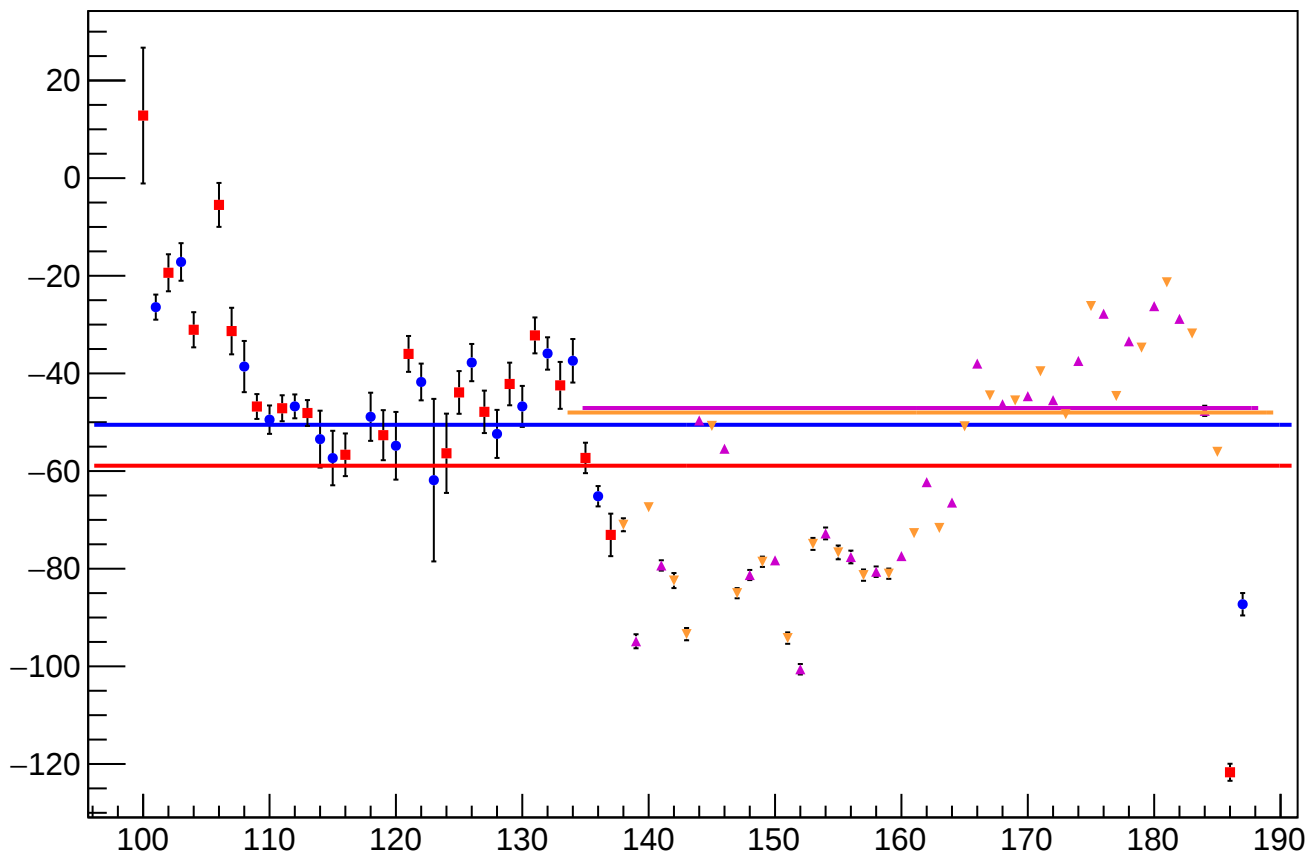
Right: -3.993 ± 0.352 χ^2/NDF : 346.9/37

In: 0.411 ± 0.121 χ^2/NDF : 3599.9/40

Out: 0.447 ± 0.121 χ^2/NDF : 4223.7/44

All: 0.429 ± 0.085 χ^2/NDF : 7823.6/85

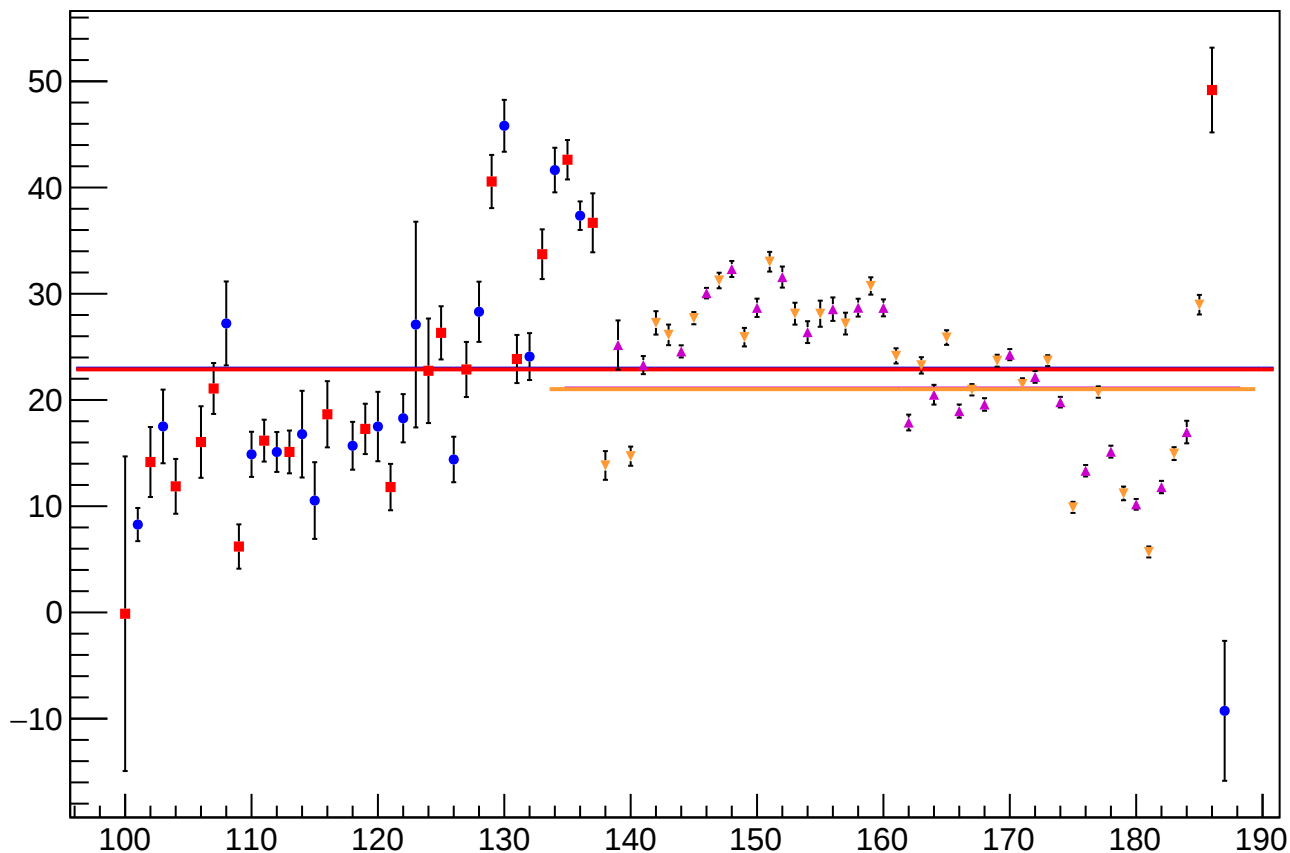
reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -50.524 ± 0.826 χ^2/NDF : 524.7/17
 Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24
 Right Out: -58.902 ± 0.785 χ^2/NDF : 1872.4/19
 Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47
 Right: -54.924 ± 0.569 χ^2/NDF : 2451.2/37
 In: -47.202 ± 0.153 χ^2/NDF : 16056.7/40
 Out: -48.415 ± 0.152 χ^2/NDF : 19007.7/44
 All: -47.812 ± 0.108 χ^2/NDF : 35096.1/85

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: 22.881 $\pm$ 0.568 χ^2 /NDF: 410.7/19

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

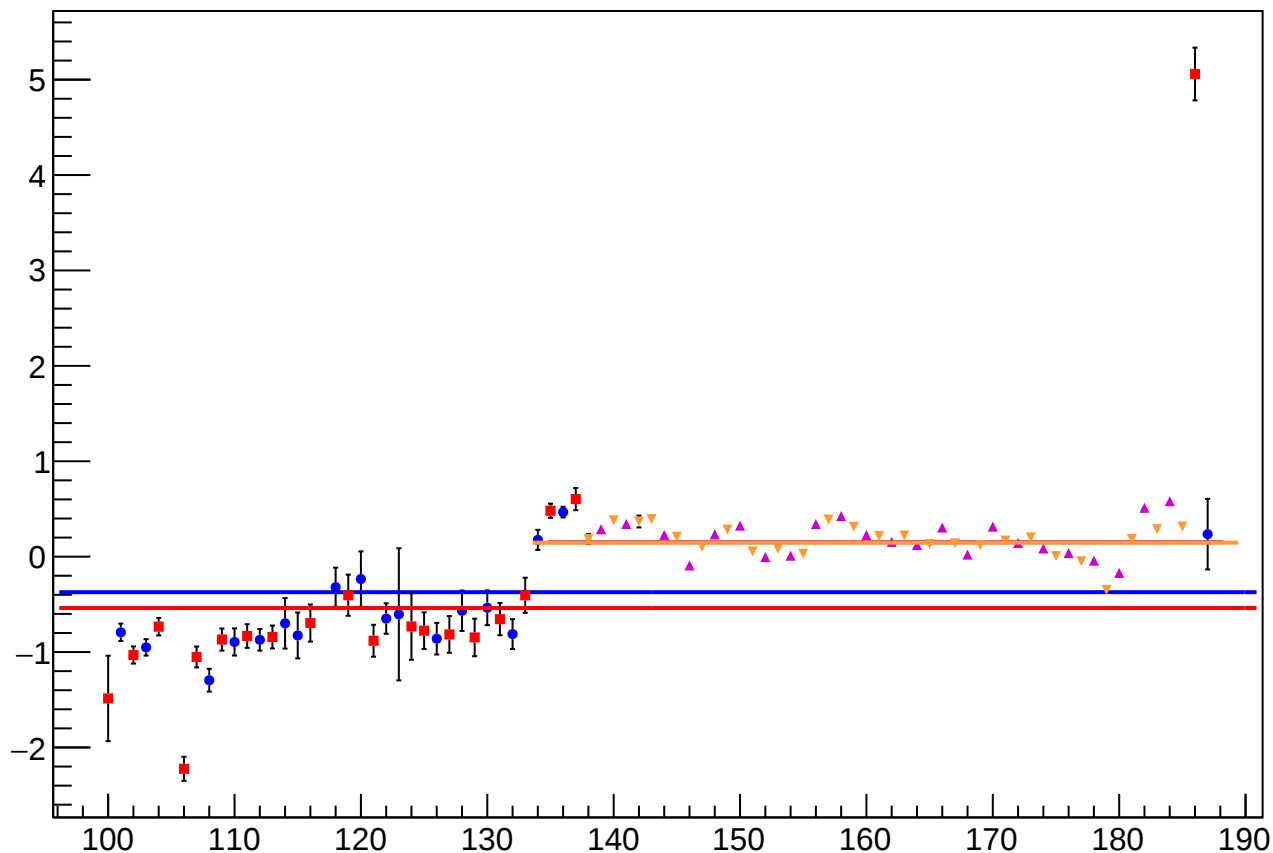
Right: 22.917 $\pm$ 0.398 χ^2 /NDF: 891.7/37

In: 21.189 $\pm$ 0.135 χ^2 /NDF:2664.9/40

Out: 21.125 $\pm$ 0.135 χ^2 /NDF:3220.1/44

All: 21.157 $\pm$ 0.096 χ^2 /NDF: 5885.1/85

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: -0.538 ± 0.030 $\chi^2/\text{NDF}: 966.2/19$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

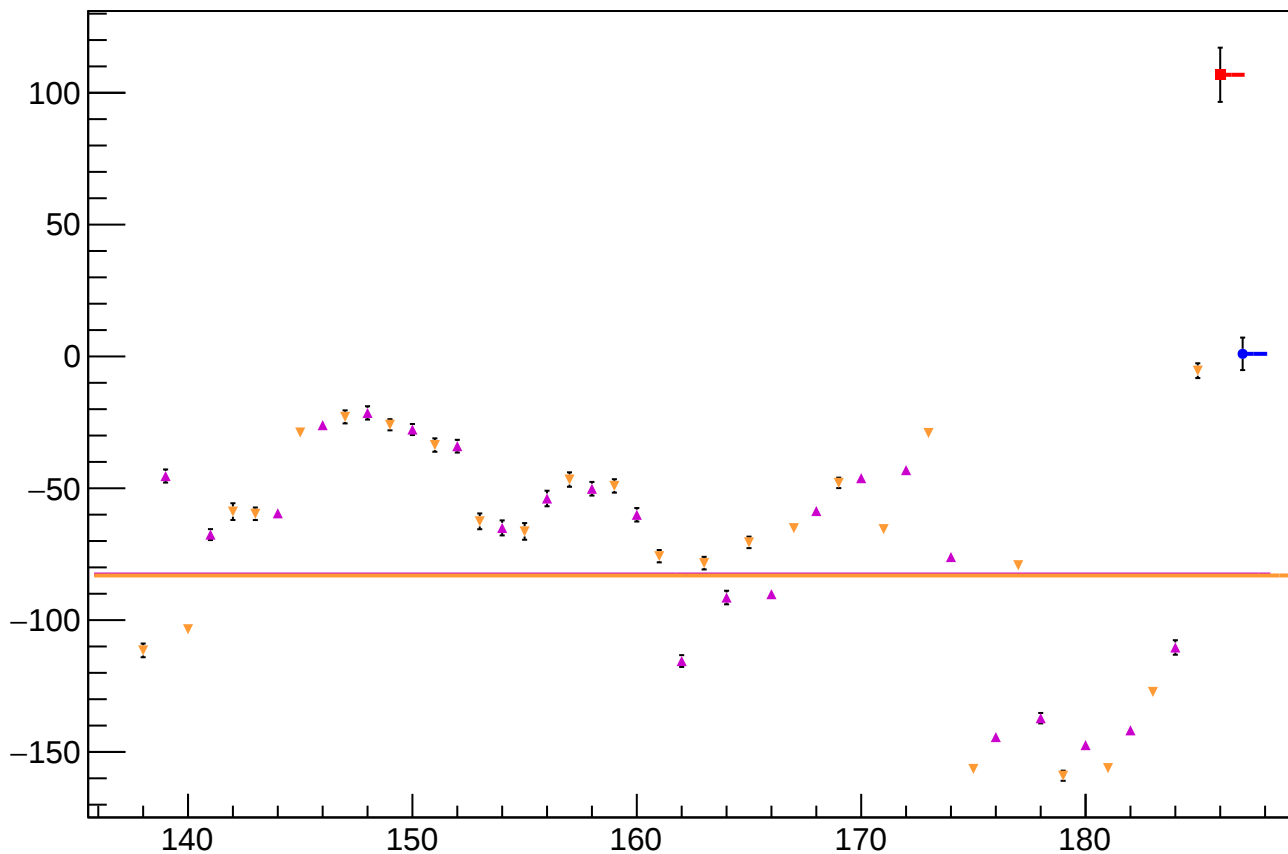
Right: -0.455 ± 0.021 $\chi^2/\text{NDF}: 1421.7/37$

In: 0.129 ± 0.006 $\chi^2/\text{NDF}: 1600.1/40$

Out: 0.117 ± 0.006 $\chi^2/\text{NDF}: 2071.8/44$

All: 0.123 ± 0.004 $\chi^2/\text{NDF}: 3673.6/85$

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: 106.825 ± 10.282 $\chi^2/\text{NDF}: 0.0/0$

Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$

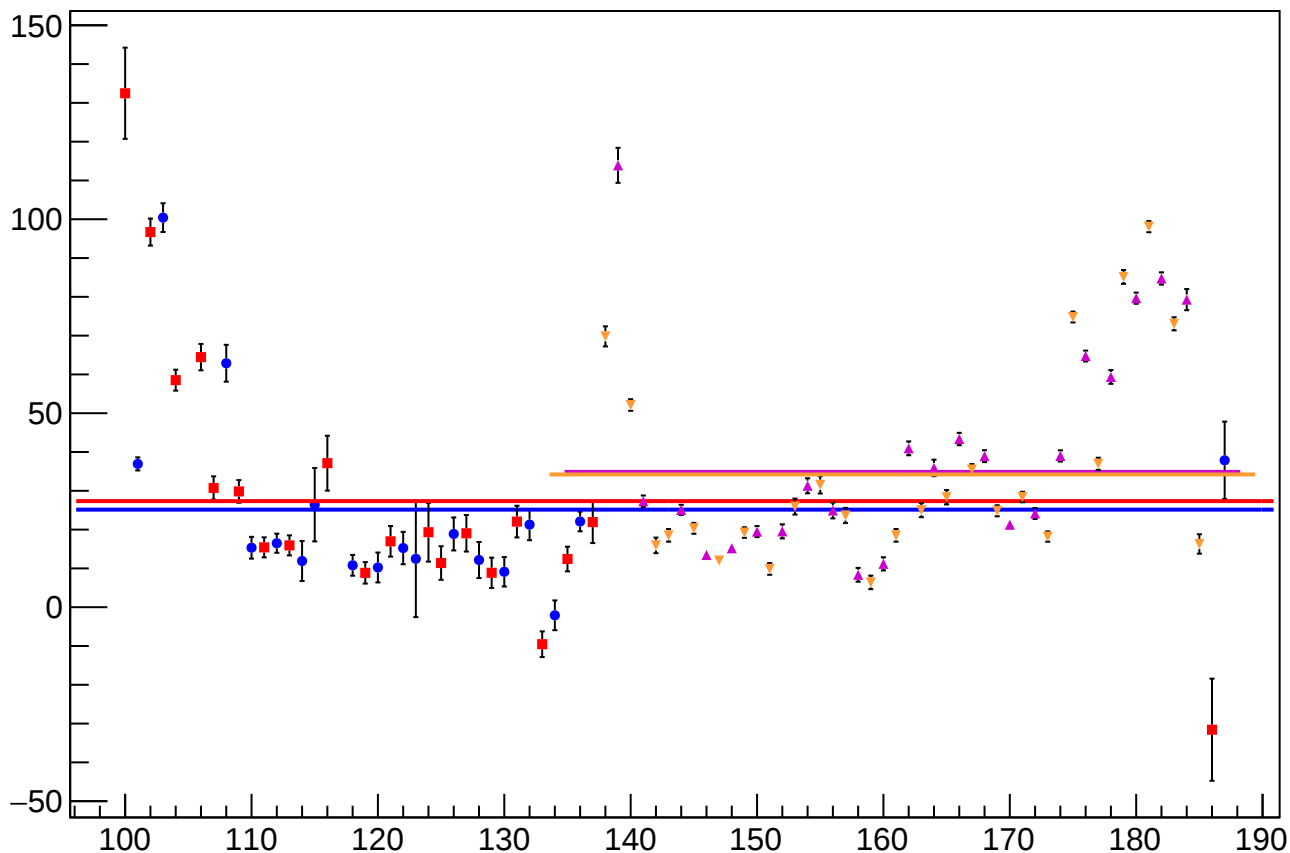
Right: 28.963 ± 5.286 $\chi^2/\text{NDF}: 77.9/1$

In: -82.333 ± 0.414 $\chi^2/\text{NDF}: 11025.0/23$

Out: -82.772 ± 0.406 $\chi^2/\text{NDF}: 14157.9/25$

All: -82.557 ± 0.290 $\chi^2/\text{NDF}: 25183.5/49$

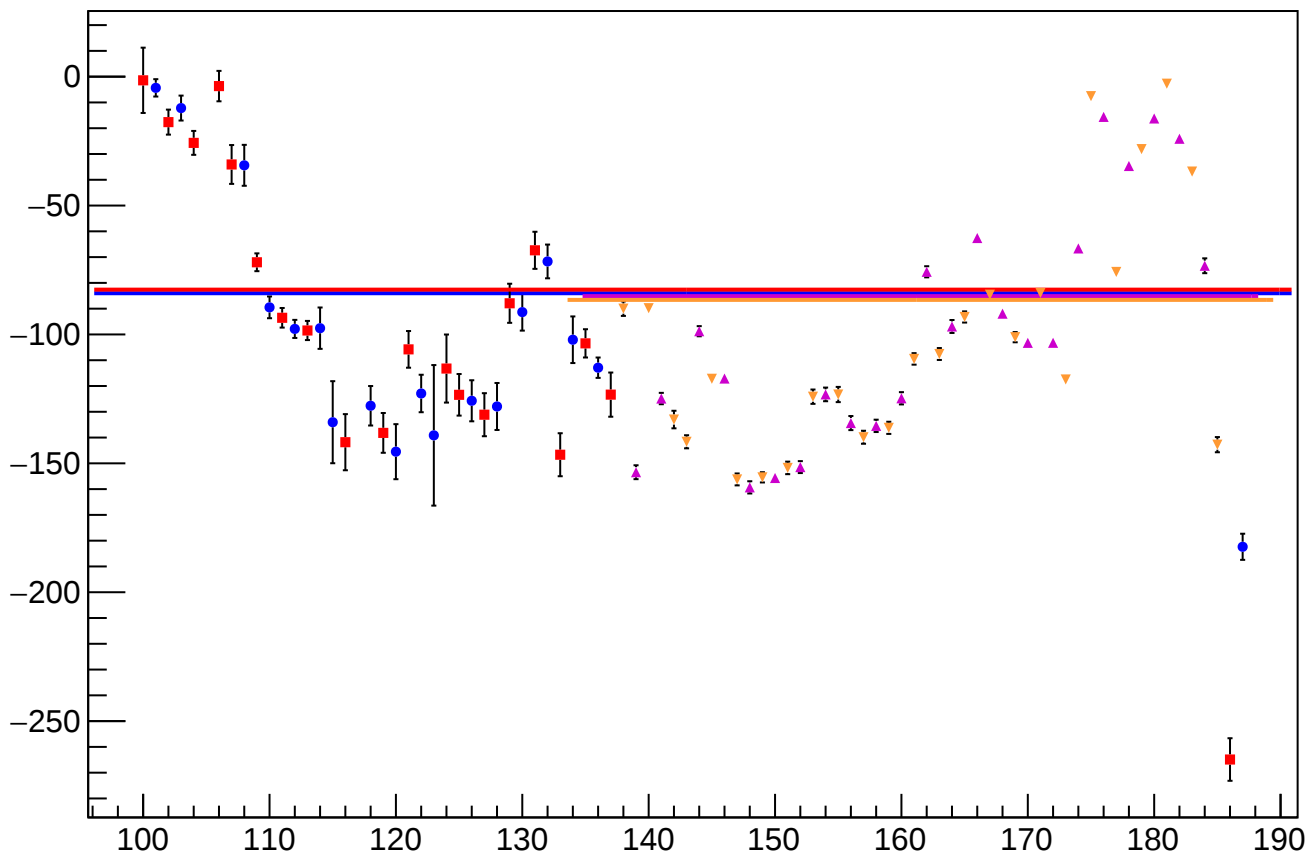
reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.147 ± 0.805 $\chi^2/\text{NDF}: 688.1/17$
 Left Out: 34.219 ± 0.320 $\chi^2/\text{NDF}: 6192.6/24$
 Right Out: 27.344 ± 0.809 $\chi^2/\text{NDF}: 1033.7/19$
 Left In: 34.870 ± 0.329 $\chi^2/\text{NDF}: 4716.1/22$

Left: 34.535 ± 0.230 $\chi^2/\text{NDF}: 10910.7/47$
 Right: 26.240 ± 0.571 $\chi^2/\text{NDF}: 1725.5/37$
 In: 33.476 ± 0.305 $\chi^2/\text{NDF}: 5529.3/40$
 Out: 33.288 ± 0.298 $\chi^2/\text{NDF}: 7288.7/44$
 All: 33.380 ± 0.213 $\chi^2/\text{NDF}: 12818.1/85$

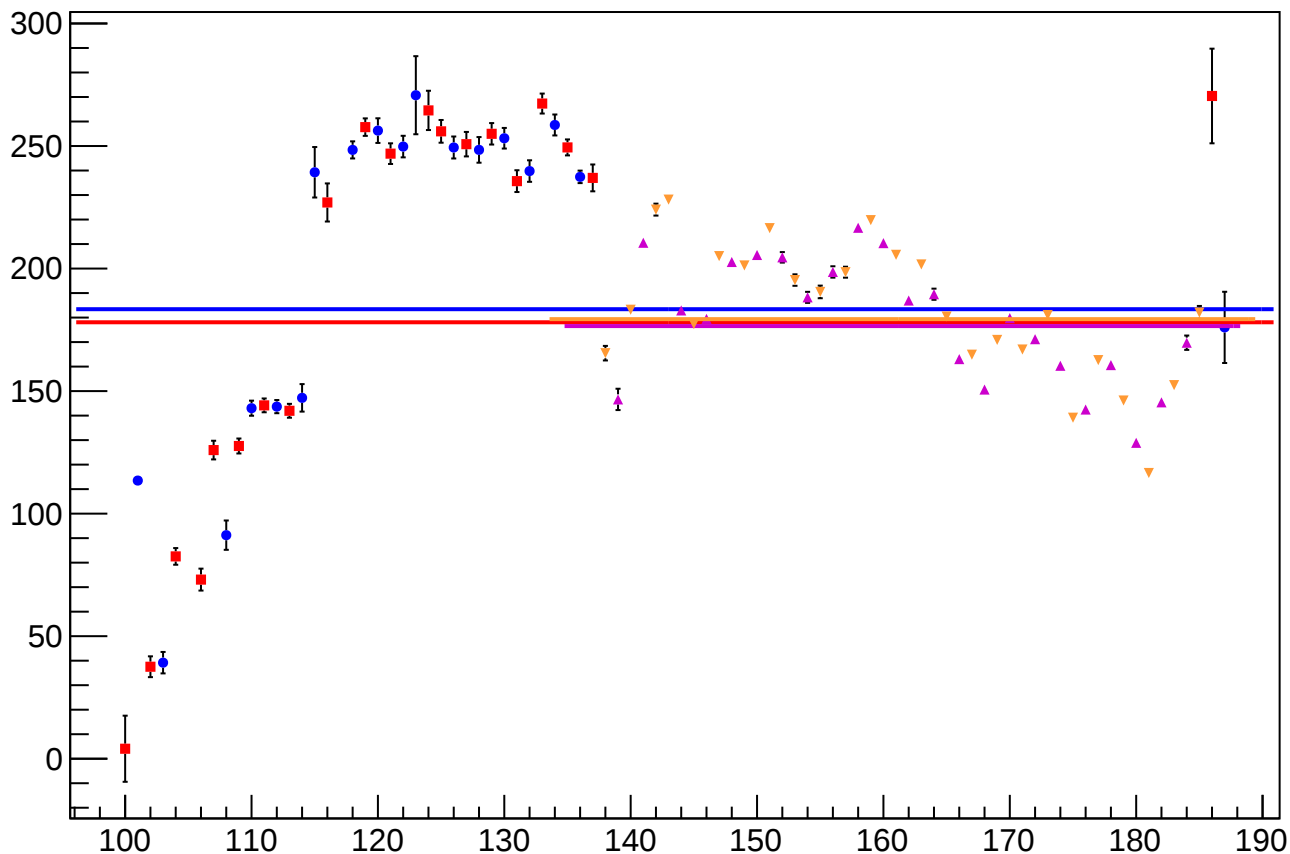
reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -84.015 $\pm$ 1.366 χ^2 /NDF: 1437.1/17
 Left Out: -86.595 $\pm$ 0.408 χ^2 /NDF:14515.7/24
 Right Out: -82.617 $\pm$ 1.336 χ^2 /NDF: 1372.6/19
 Left In: -85.134 $\pm$ 0.415 χ^2 /NDF:12841.3/22

Left: -85.876 $\pm$ 0.291 χ^2 /NDF: 27363.3/47
 Right: -83.300 $\pm$ 0.955 χ^2 /NDF: 2810.3/37
 In: -85.040 $\pm$ 0.397 χ^2 /NDF:14279.0/40
 Out: -86.255 $\pm$ 0.391 χ^2 /NDF:15896.4/44
 All: -85.657 $\pm$ 0.278 χ^2 /NDF: 30180.2/85

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 183.419+/-0.918 χ^2/NDF : 5318.5/17

Left Out: 179.359+/-0.362 χ^2/NDF : 5982.2/24

Right Out: 178.080+/-0.924 χ^2/NDF : 6359.5/19

Left In: 176.531+/-0.371 χ^2/NDF : 4426.0/22

Left: 177.980+/-0.259 χ^2/NDF : 10438.0/47

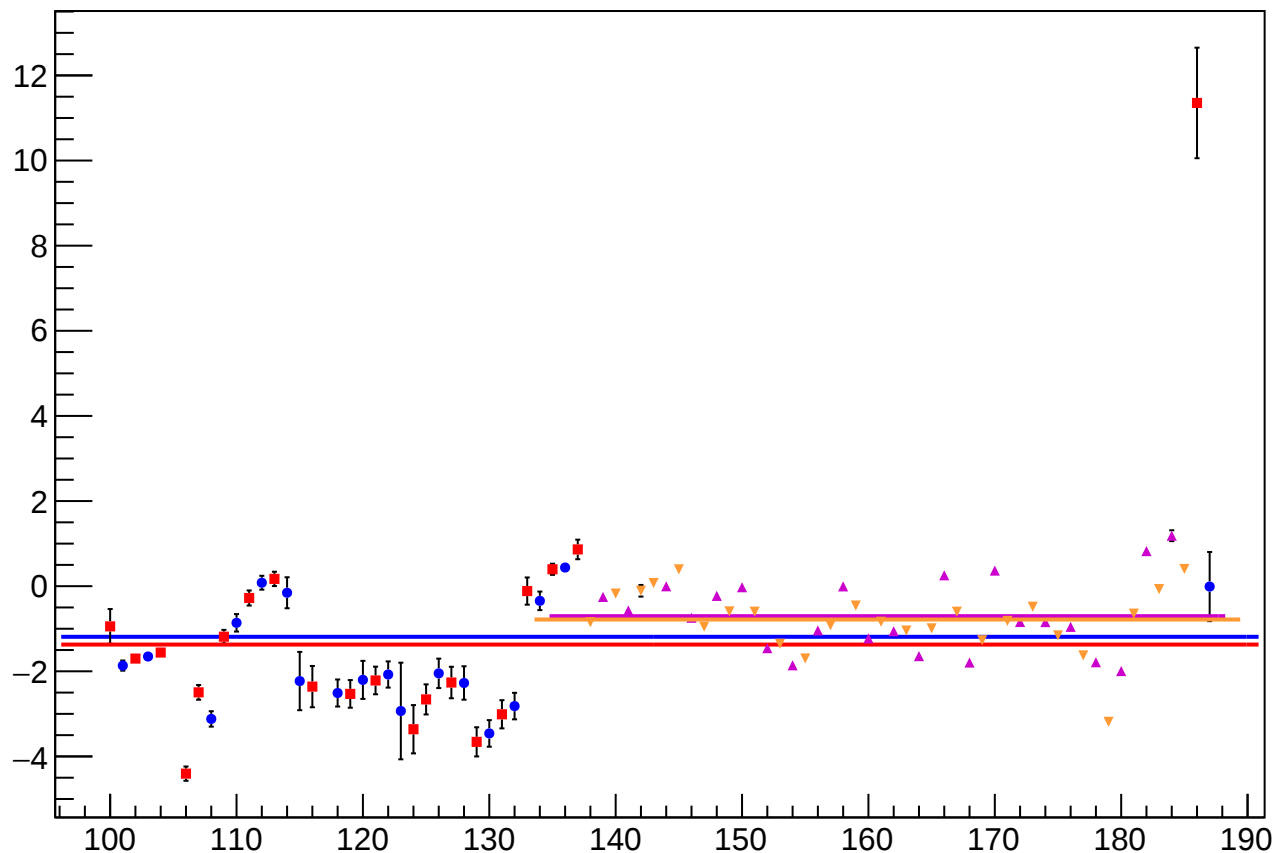
Right: 180.765+/-0.651 χ^2/NDF : 11694.8/37

In: 177.497+/-0.344 χ^2/NDF : 9792.8/40

Out: 179.189+/-0.337 χ^2/NDF : 12343.4/44

All: 178.360+/-0.241 χ^2/NDF : 22148.5/85

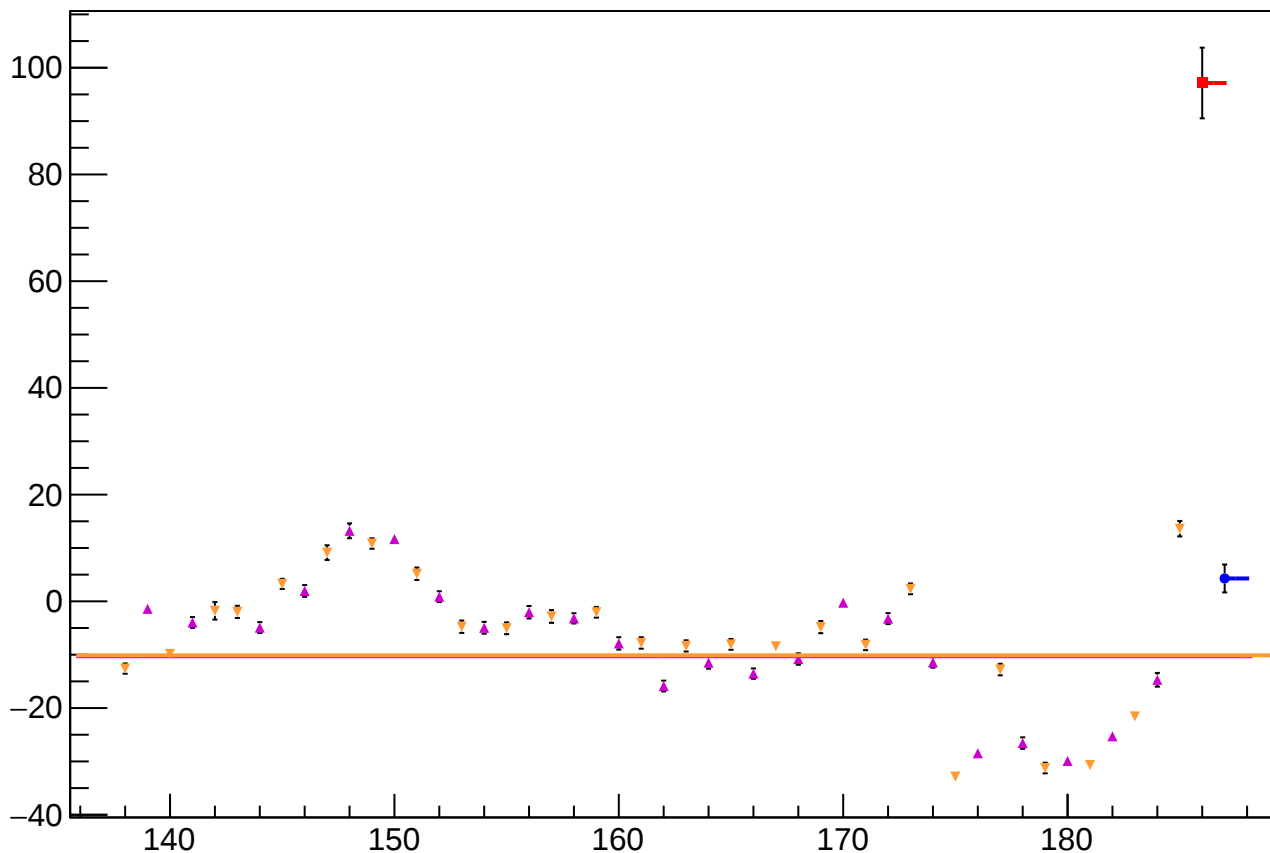
reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



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: -1.372 ± 0.046 χ^2/NDF : 1015.6/19
 Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47
 Right: -1.285 ± 0.033 χ^2/NDF : 1645.6/37
 In: -0.758 ± 0.016 χ^2/NDF : 3120.4/40
 Out: -0.852 ± 0.016 χ^2/NDF : 2932.9/44
 All: -0.806 ± 0.011 χ^2/NDF : 6070.9/85

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.287+/-2.614 χ^2/NDF : 0.0/0

Left Out: -10.117+/-0.201 χ^2/NDF : 4138.1/24

Right Out: 97.143+/-6.619 χ^2/NDF : 0.0/0

Left In: -10.290+/-0.205 χ^2/NDF : 3451.0/22

Left: -10.202+/-0.144 χ^2/NDF : 7589.5/47

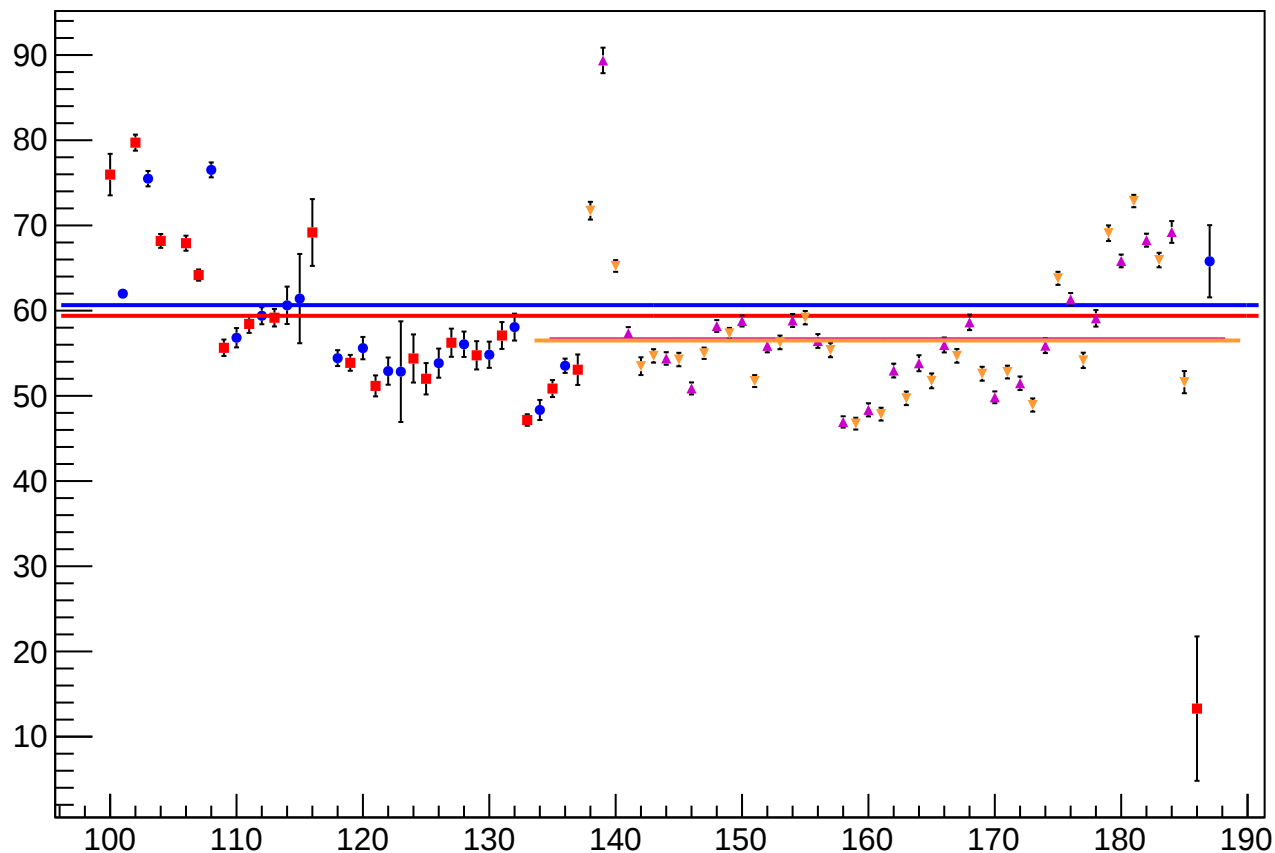
Right: 16.818+/-2.432 χ^2/NDF : 170.2/1

In: -10.201+/-0.205 χ^2/NDF : 3481.9/23

Out: -10.018+/-0.201 χ^2/NDF : 4400.5/25

All: -10.108+/-0.144 χ^2/NDF : 7882.8/49

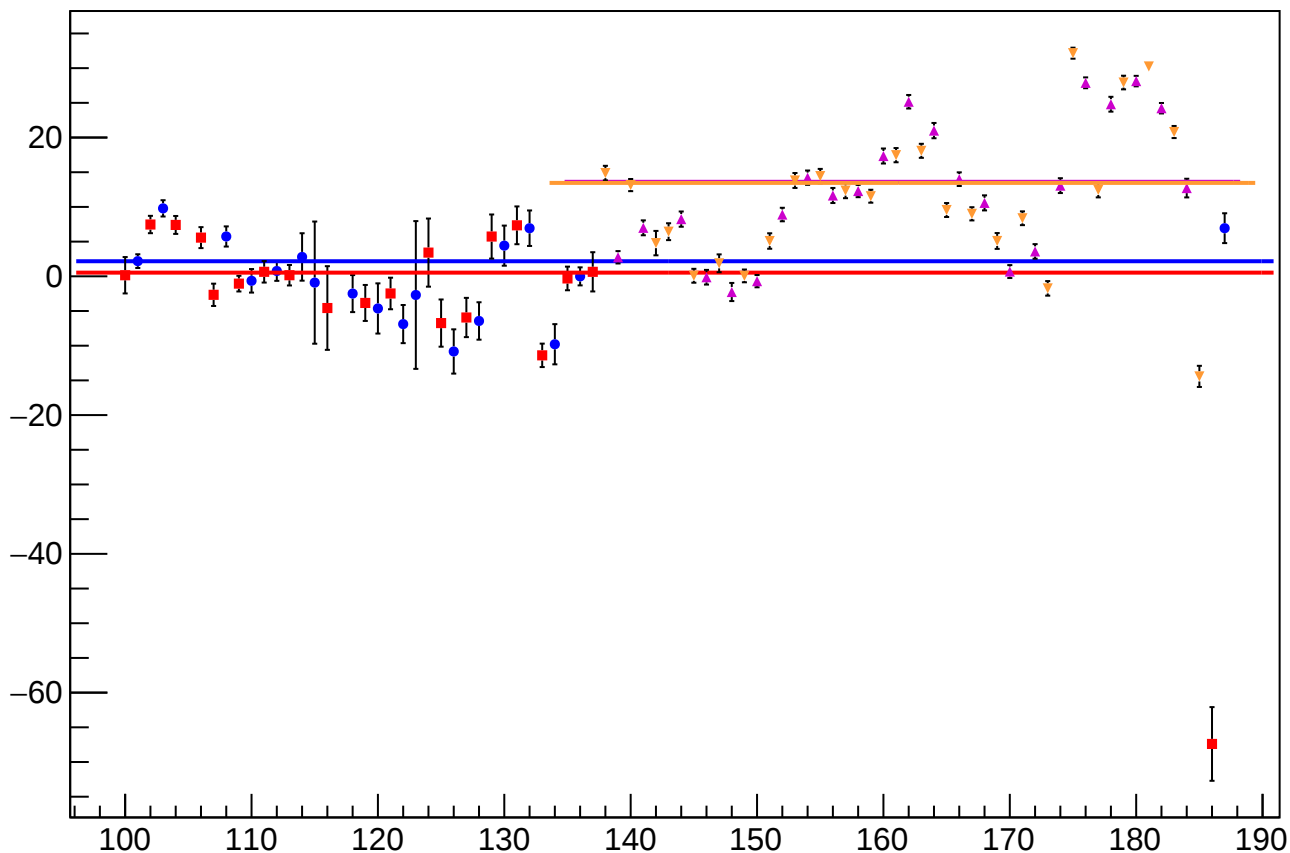
reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



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: 59.393 $\pm$ 0.248 χ^2 /NDF: 1354.8/19
 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: 59.983 $\pm$ 0.180 χ^2 /NDF: 2292.8/37
 In: 57.770 $\pm$ 0.140 χ^2 /NDF:2700.9/40
 Out: 57.340 $\pm$ 0.134 χ^2 /NDF:3419.6/44
 All: 57.546 $\pm$ 0.097 χ^2 /NDF: 6125.5/85

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: 0.529 $\pm$ 0.423 χ^2 /NDF: 314.3/19

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

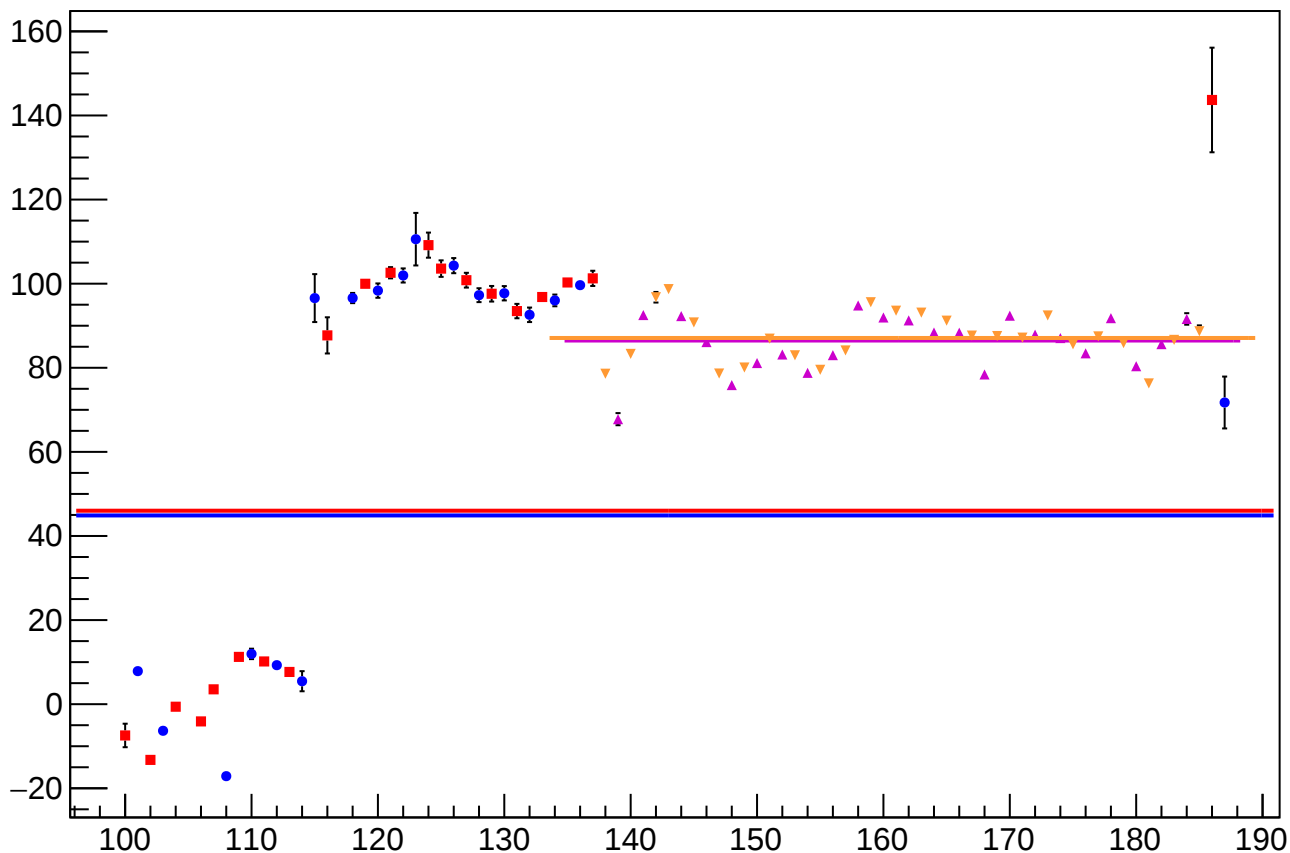
Right: 1.302 $\pm$ 0.308 χ^2 /NDF: 446.8/37

In: 11.656 $\pm$ 0.186 χ^2 /NDF: 2978.7/40

Out: 11.073 $\pm$ 0.182 χ^2 /NDF: 3811.6/44

All: 11.358 $\pm$ 0.130 χ^2 /NDF: 6795.3/85

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: 46.011 $\pm$ 0.290 χ^2 /NDF: 28277.8/19

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

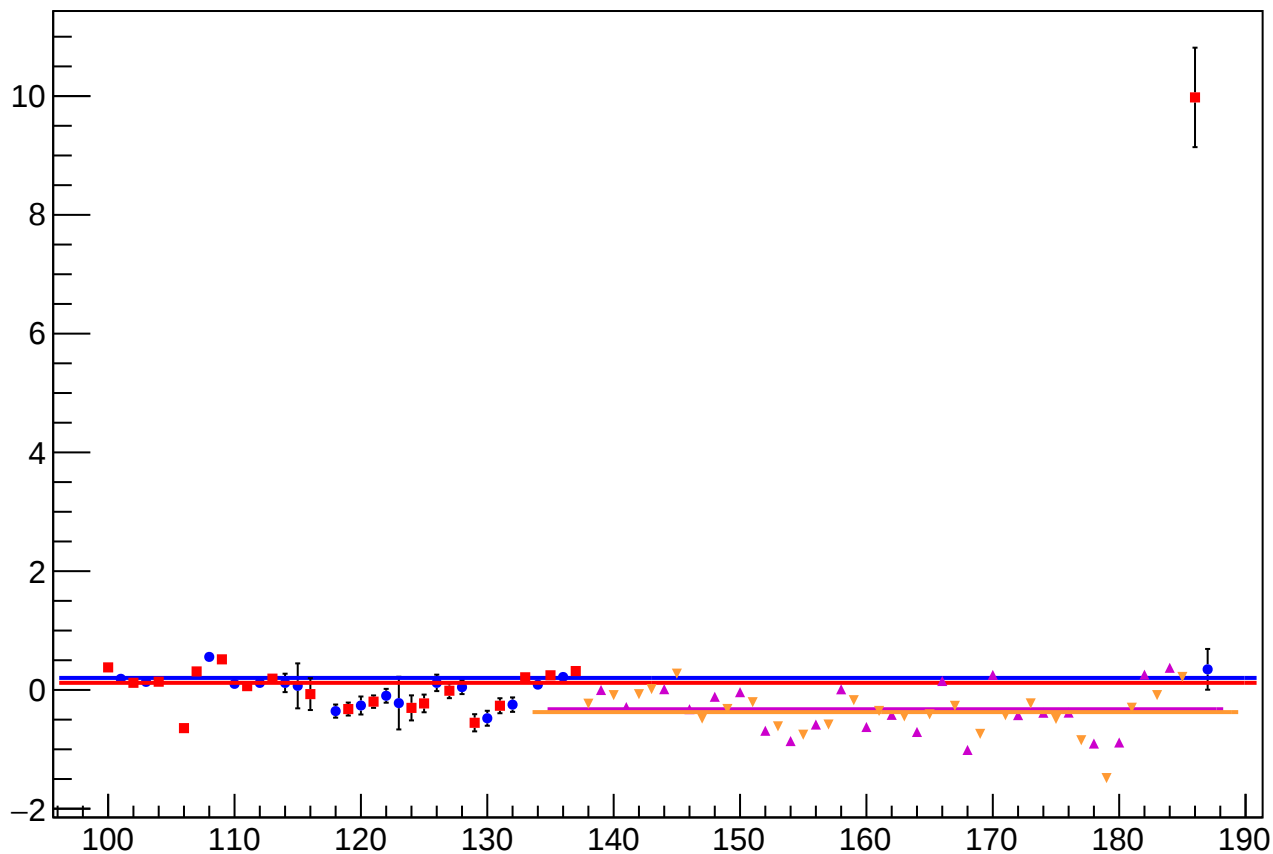
Right: 45.476 $\pm$ 0.210 χ^2 /NDF: 53004.1/37

In: 75.308 $\pm$ 0.158 χ^2 /NDF:39360.4/40

Out: 75.727 $\pm$ 0.152 χ^2 /NDF:43913.9/44

All: 75.525 $\pm$ 0.110 χ^2 /NDF: 83277.9/85

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: 0.120 ± 0.013 χ^2/NDF : 637.7/19

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

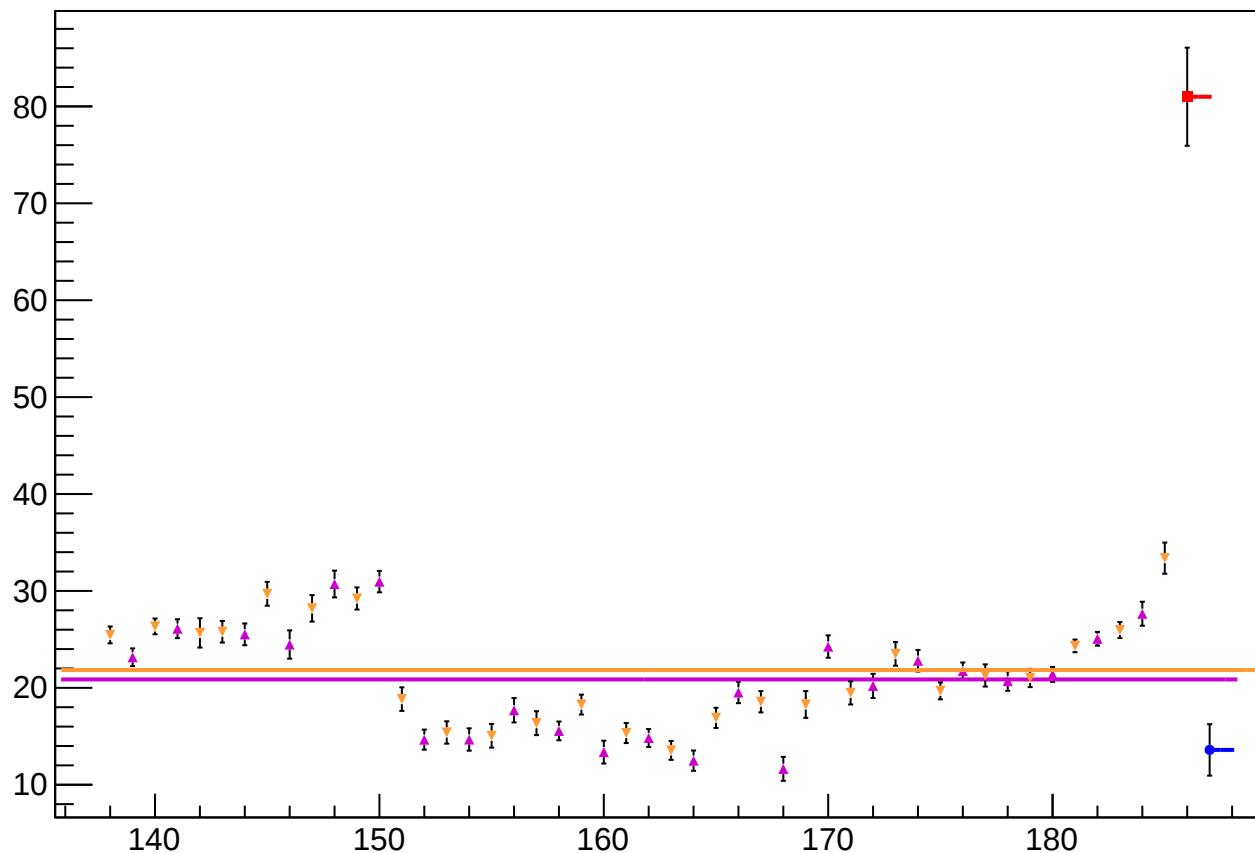
Right: 0.158 ± 0.010 χ^2/NDF : 872.2/37

In: -0.191 ± 0.007 χ^2/NDF : 3551.3/40

Out: -0.235 ± 0.007 χ^2/NDF : 3336.5/44

All: -0.214 ± 0.005 χ^2/NDF : 6908.1/85

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: 80.998 $\pm$ 5.062 χ^2 /NDF: 0.0/0

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

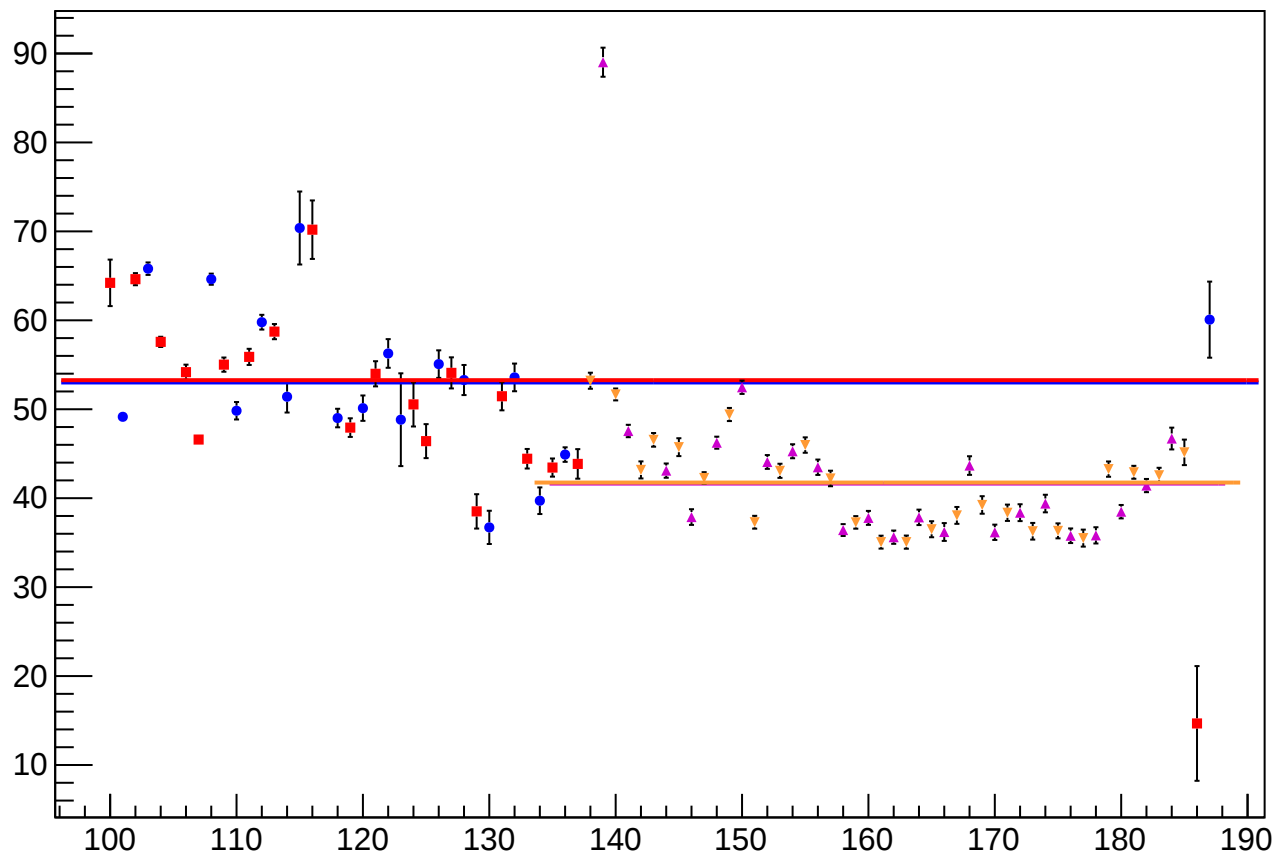
Right: 28.130 $\pm$ 2.351 χ^2 /NDF: 139.1/1

In: 20.817 $\pm$ 0.216 χ^2 /NDF:584.3/23

Out: 21.938 $\pm$ 0.210 χ^2 /NDF:660.7/25

All: 21.394 $\pm$ 0.150 χ^2 /NDF: 1258.9/49

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: 53.268 $\pm$ 0.227 χ^2 /NDF: 912.5/19

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

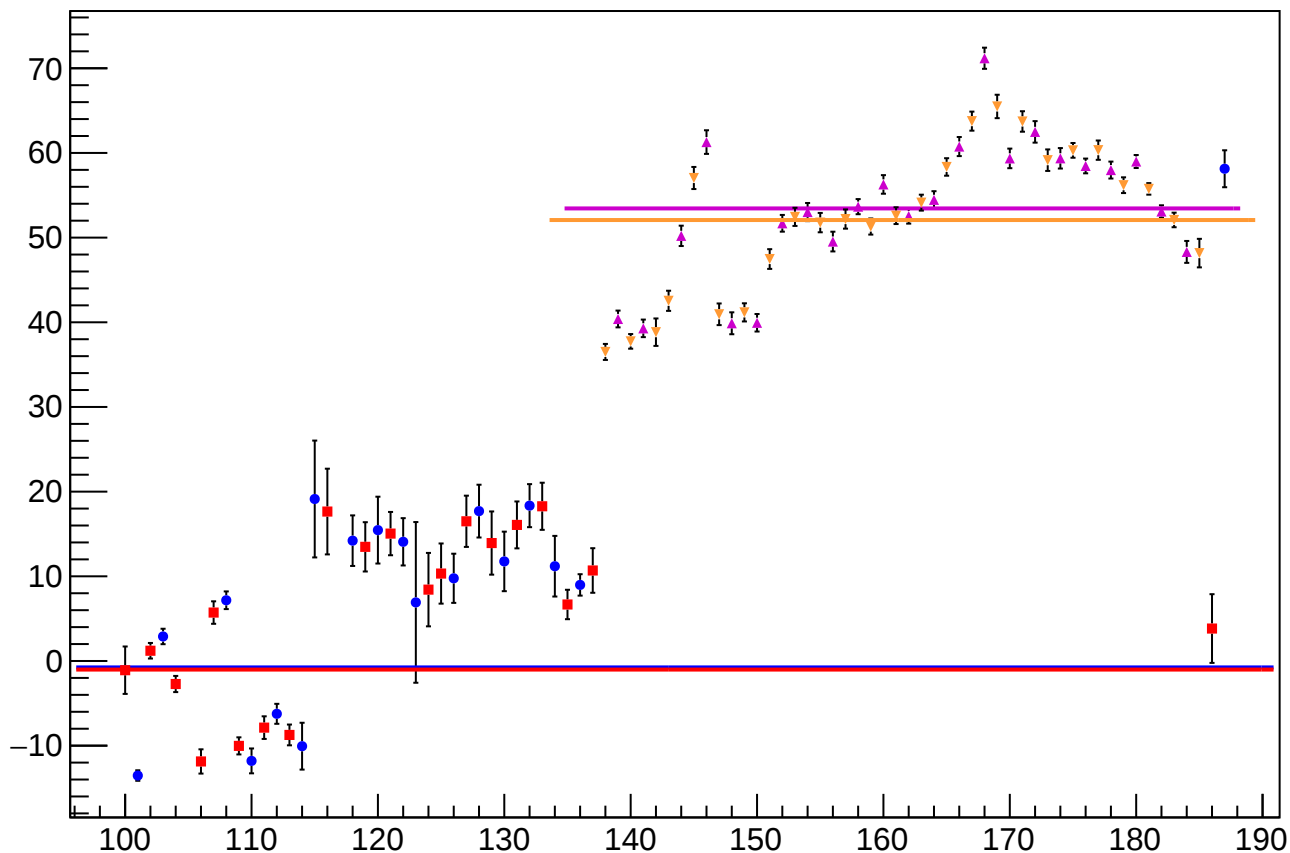
Right: 53.130 $\pm$ 0.154 χ^2 /NDF: 2113.8/37

In: 46.243 $\pm$ 0.134 χ^2 /NDF:4543.3/40

Out: 45.755 $\pm$ 0.134 χ^2 /NDF:3611.2/44

All: 45.998 $\pm$ 0.095 χ^2 /NDF: 8161.1/85

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: -1.014 ± 0.376 χ^2/NDF : 506.9/19

Left In: 53.447 ± 0.215 χ^2/NDF : 1169.0/22

Left: 52.744 ± 0.150 χ^2/NDF : 2640.6/47

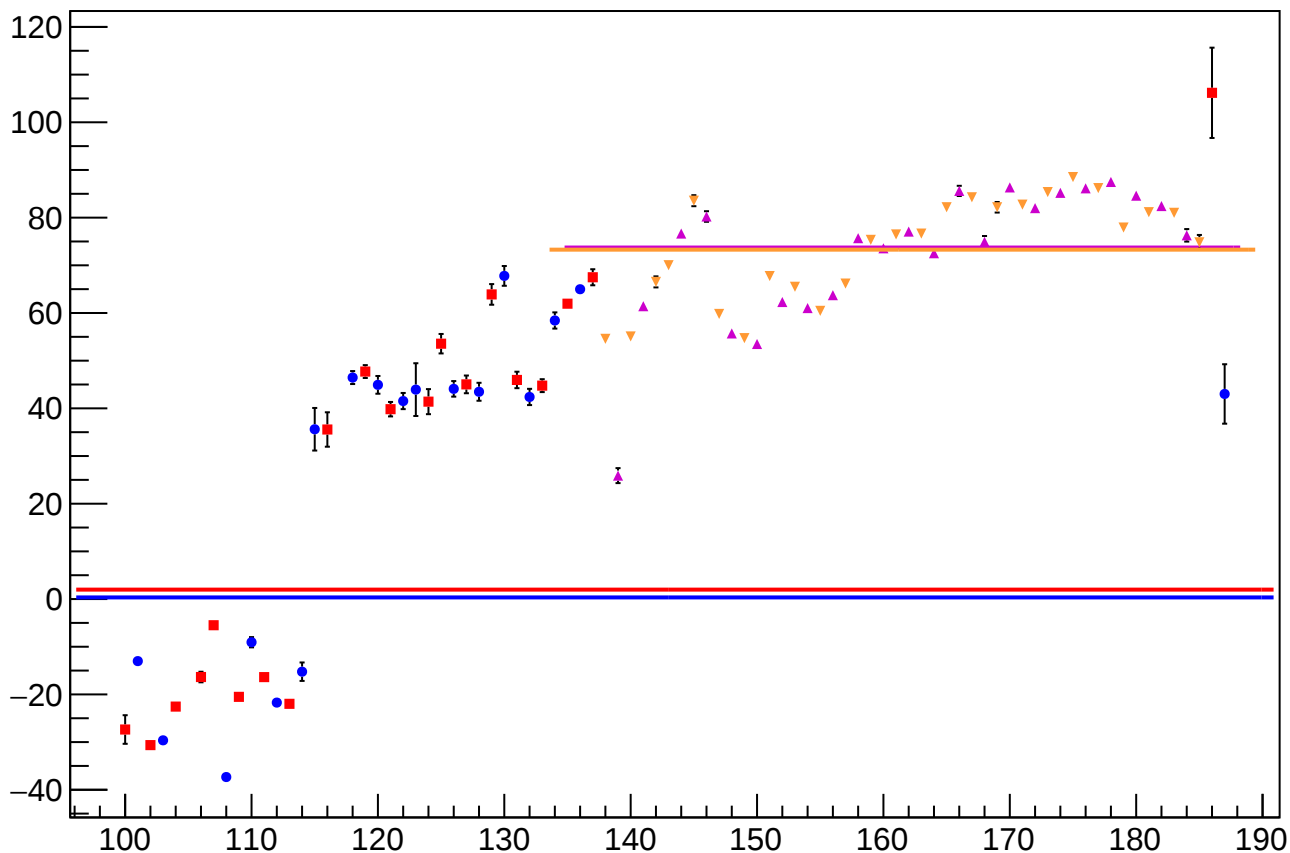
Right: -0.881 ± 0.260 χ^2/NDF : 2088.3/37

In: 39.141 ± 0.185 χ^2/NDF : 19471.8/40

Out: 39.432 ± 0.183 χ^2/NDF : 17178.4/44

All: 39.288 ± 0.130 χ^2/NDF : 36651.4/85

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.342 $\pm$ 0.247 χ^2 /NDF: 18267.0/17

Left Out: 73.284 $\pm$ 0.187 χ^2 /NDF:3144.2/24

Right Out: 1.980 $\pm$ 0.267 χ^2 /NDF: 15534.0/19

Left In: 73.730 $\pm$ 0.194 χ^2 /NDF:3775.8/22

Left: 73.498 $\pm$ 0.135 χ^2 /NDF: 6922.7/47

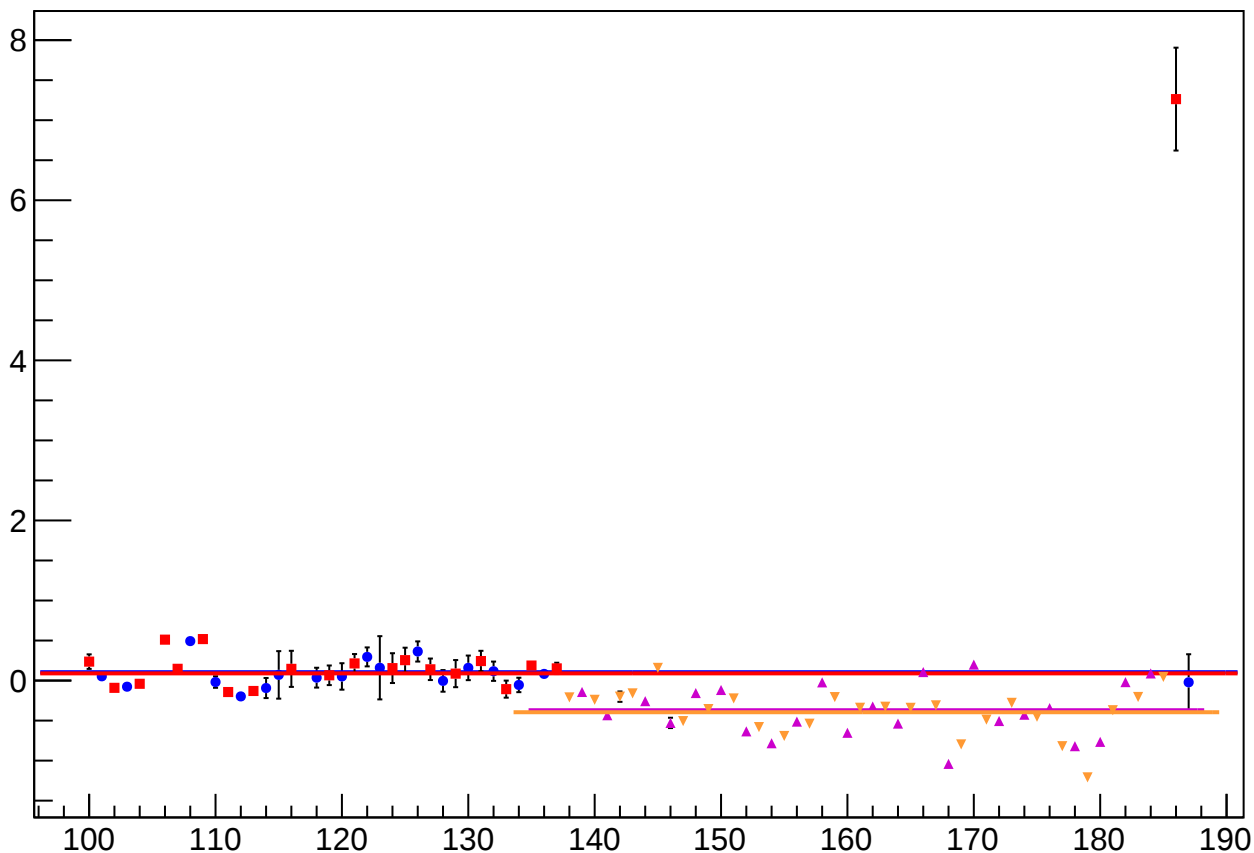
Right: 1.100 $\pm$ 0.181 χ^2 /NDF: 33821.2/37

In: 45.734 $\pm$ 0.153 χ^2 /NDF:76445.9/40

Out: 49.805 $\pm$ 0.153 χ^2 /NDF:66631.1/44

All: 47.767 $\pm$ 0.108 χ^2 /NDF: 143431.4/85

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: 0.090 ± 0.011 $\chi^2/\text{NDF}: 515.4/19$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

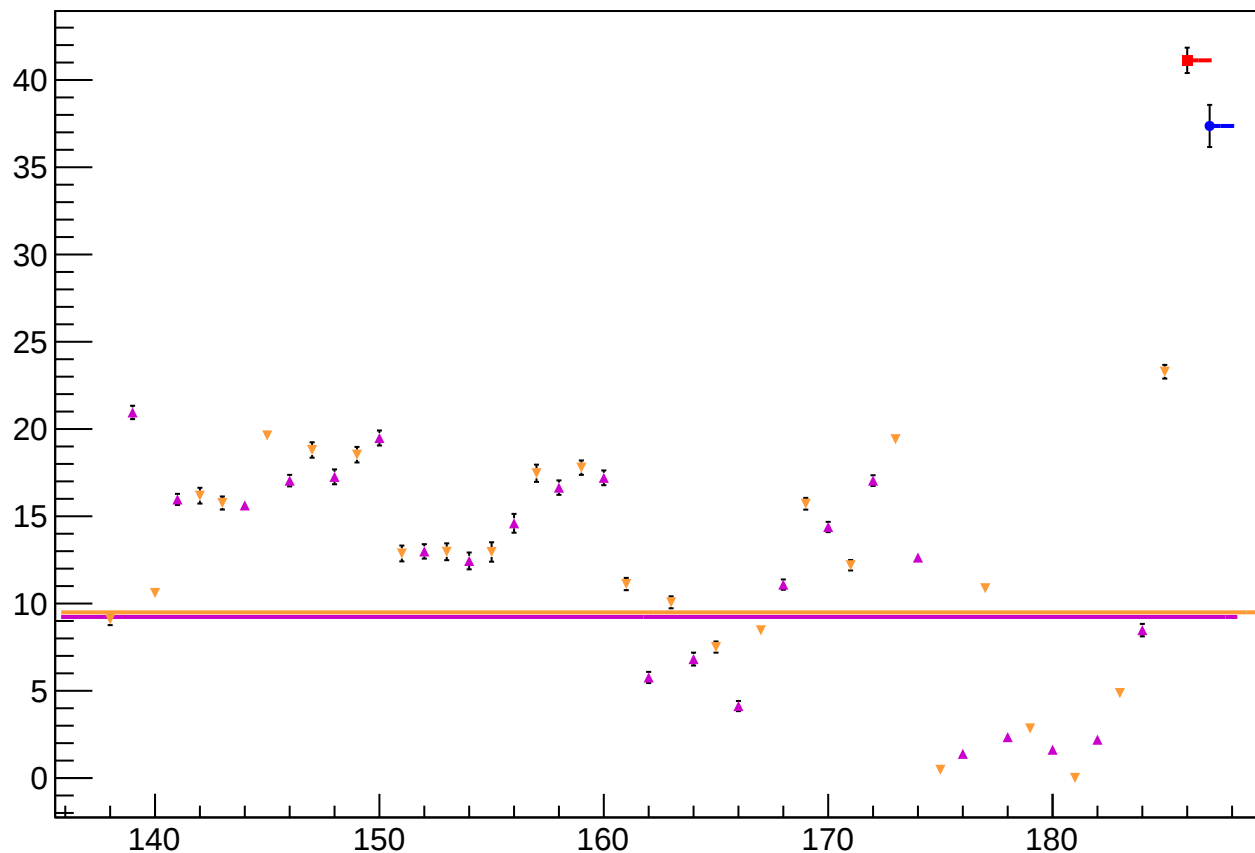
Right: 0.097 ± 0.008 $\chi^2/\text{NDF}: 917.3/37$

In: -0.188 ± 0.007 $\chi^2/\text{NDF}: 2857.9/40$

Out: -0.213 ± 0.007 $\chi^2/\text{NDF}: 2678.0/44$

All: -0.201 ± 0.005 $\chi^2/\text{NDF}: 5542.5/85$

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: 41.126 $\pm$ 0.726 χ^2 /NDF: 0.0/0

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

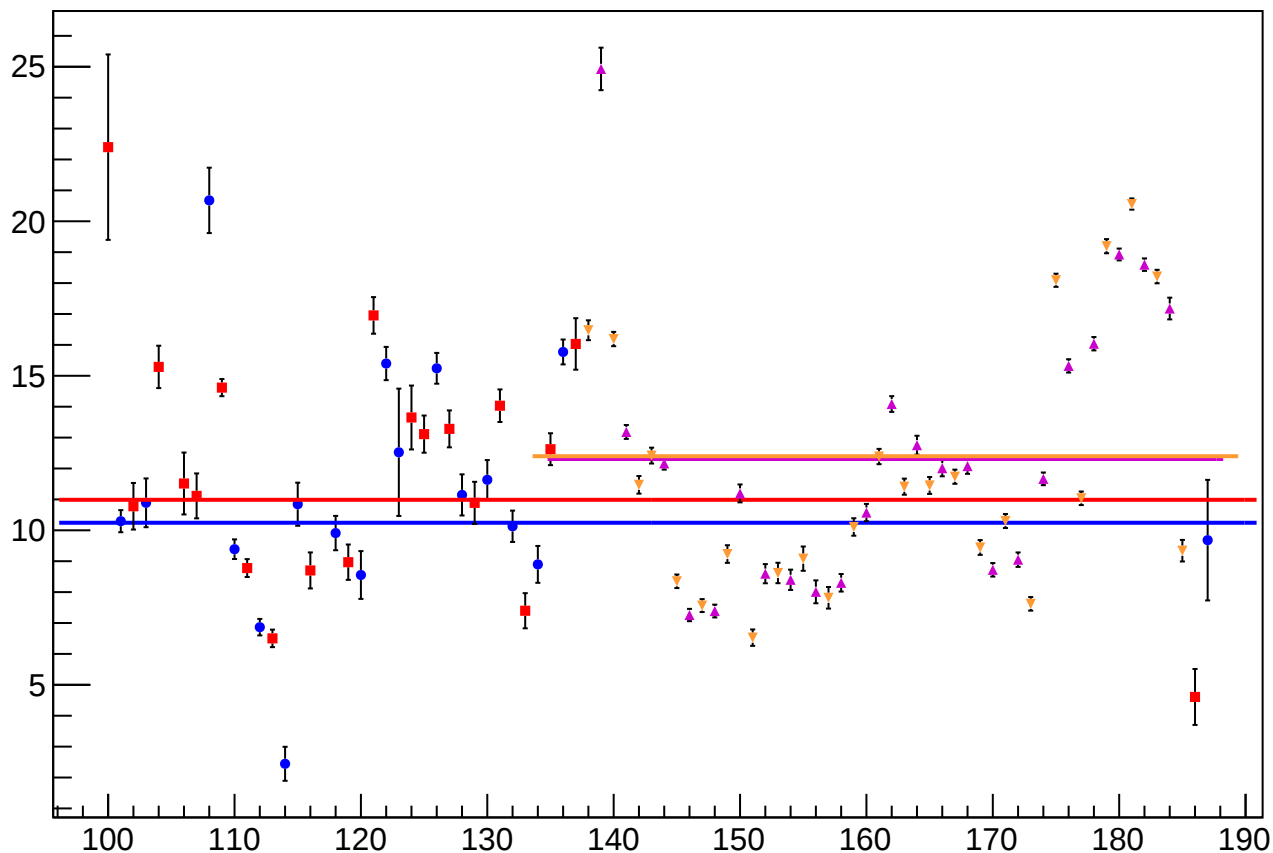
Right: 40.127 $\pm$ 0.623 χ^2 /NDF: 7.1/1

In: 9.307 $\pm$ 0.063 χ^2 /NDF:11277.1/23

Out: 9.718 $\pm$ 0.061 χ^2 /NDF:14491.5/25

All: 9.519 $\pm$ 0.044 χ^2 /NDF: 25790.5/49

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: 10.987 $\pm$ 0.116 χ^2 /NDF: 867.1/19

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

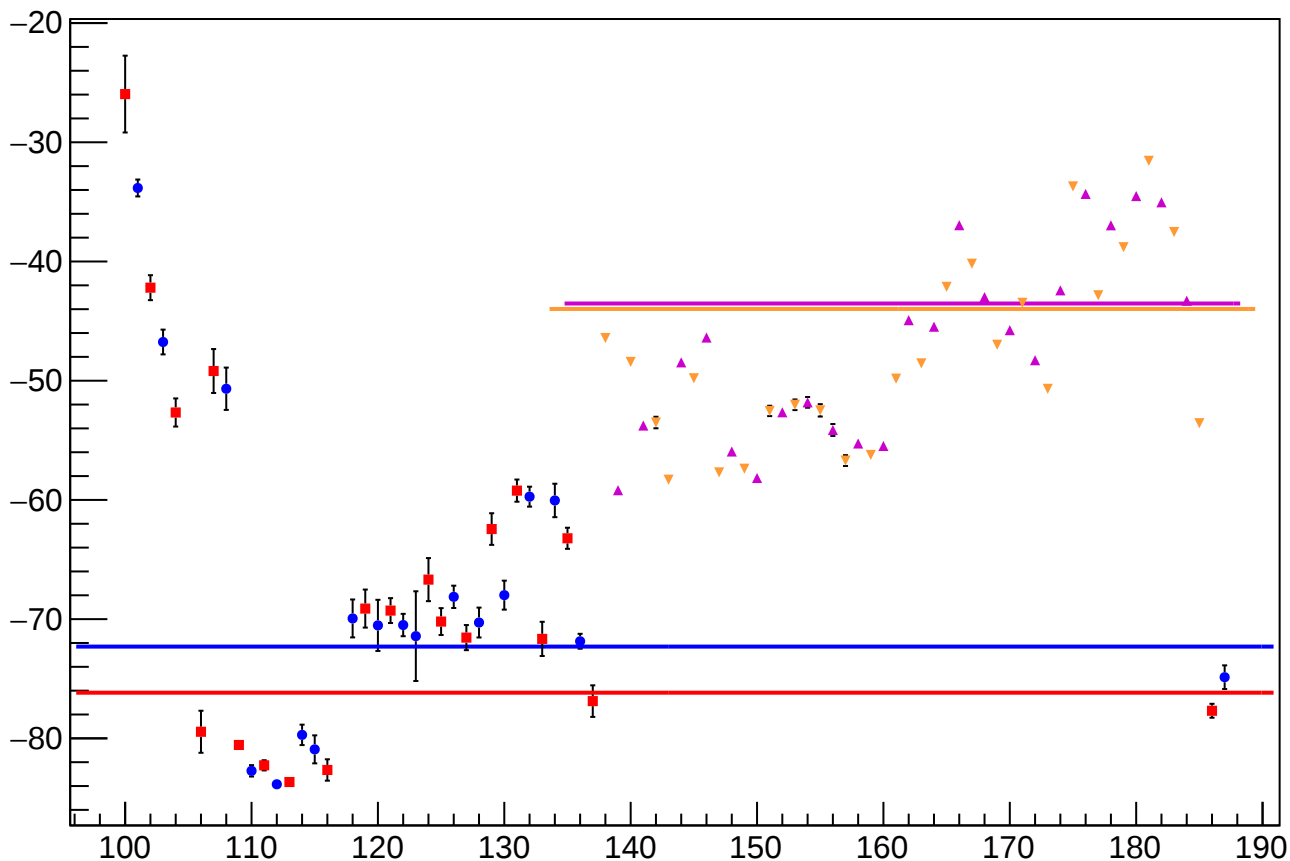
Right: 10.628 $\pm$ 0.083 χ^2 /NDF: 1753.3/37

In: 11.987 $\pm$ 0.047 χ^2 /NDF: 6720.0/40

Out: 12.177 $\pm$ 0.046 χ^2 /NDF: 8535.7/44

All: 12.085 $\pm$ 0.033 χ^2 /NDF: 15264.0/85

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: -76.170 ± 0.173 $\chi^2/\text{NDF}: 3466.6/19$
 Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$

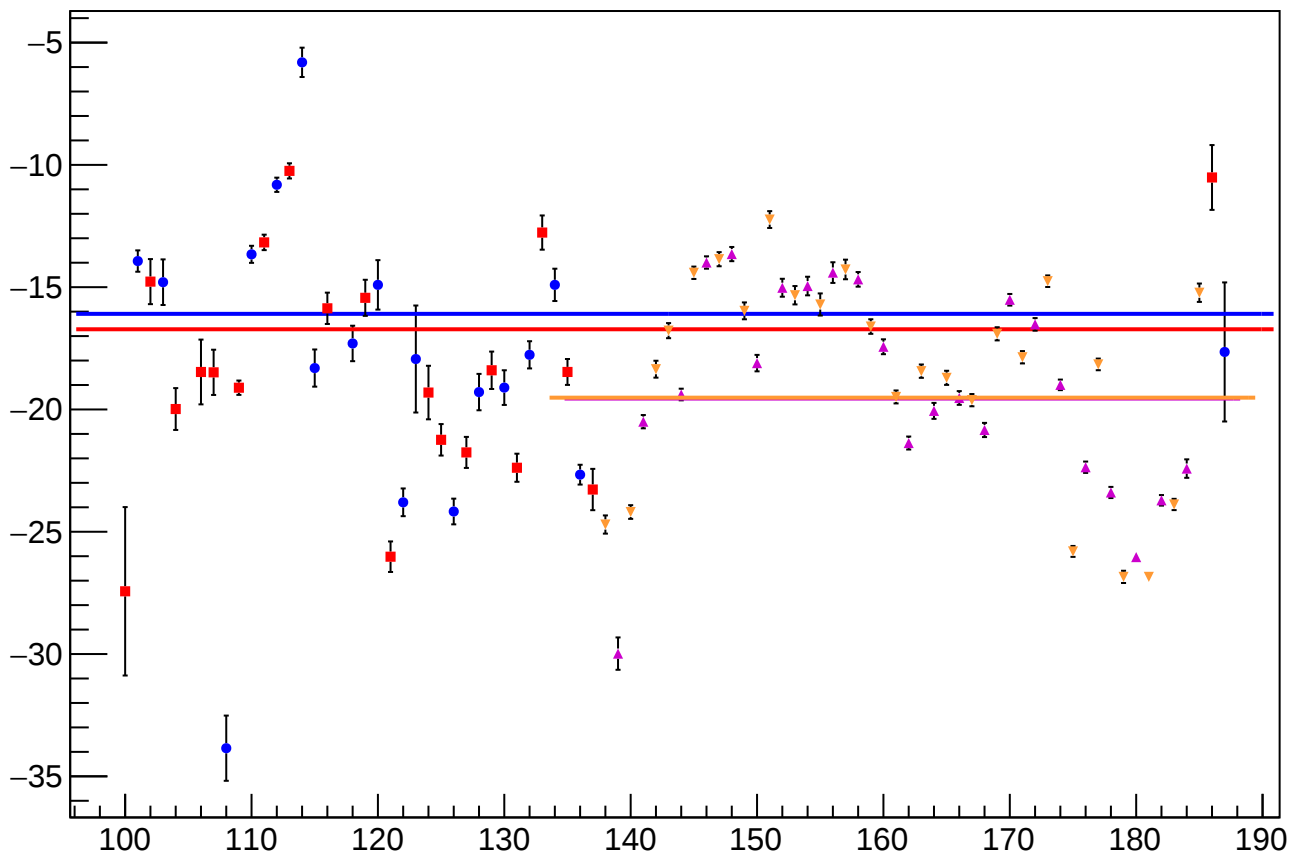
Right: -74.463 ± 0.129 $\chi^2/\text{NDF}: 9256.9/37$

In: -46.279 ± 0.060 $\chi^2/\text{NDF}: 40616.8/40$

Out: -47.638 ± 0.058 $\chi^2/\text{NDF}: 51885.5/44$

All: -46.980 ± 0.042 $\chi^2/\text{NDF}: 92765.3/85$

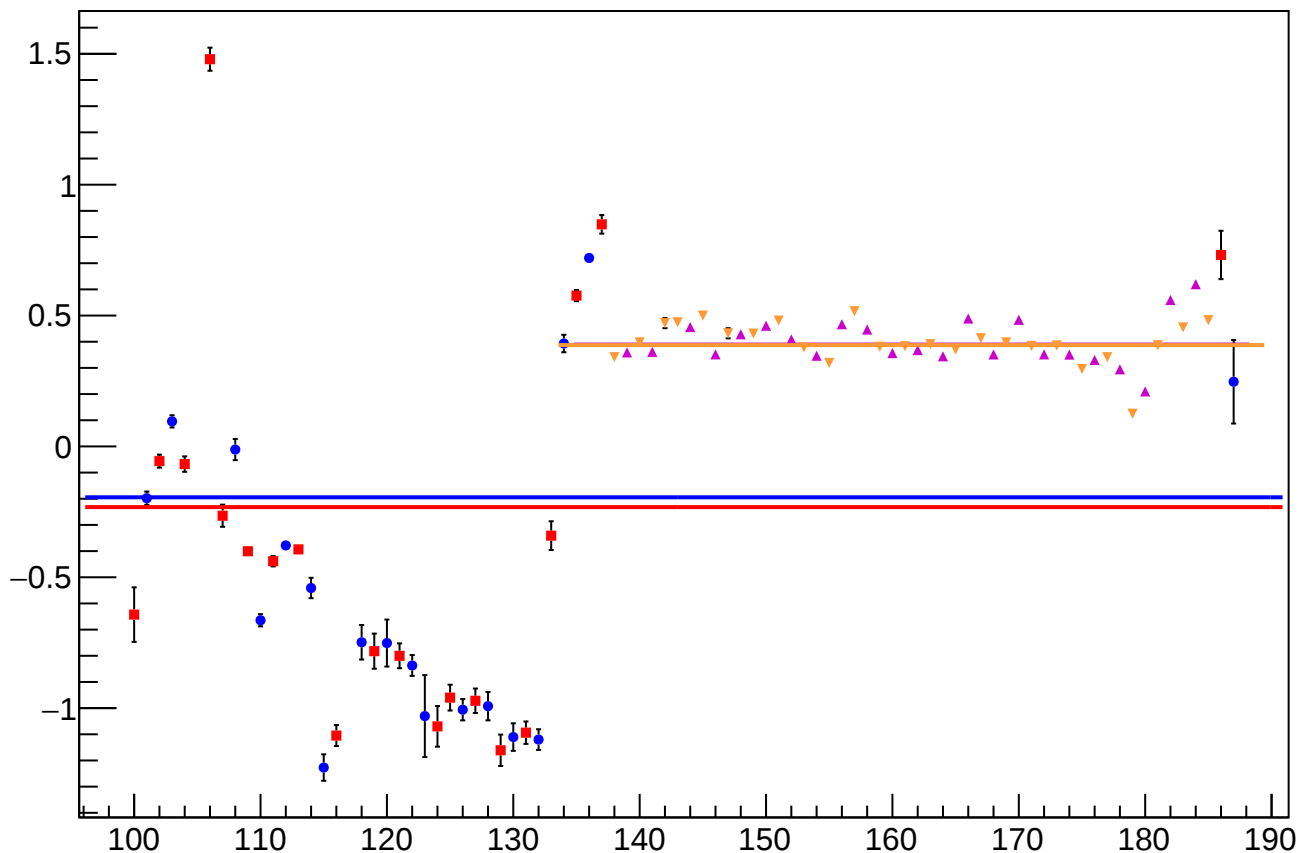
reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



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: -16.721 ± 0.128 $\chi^2/\text{NDF}: 1233.4/19$
 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: -16.418 ± 0.092 $\chi^2/\text{NDF}: 2866.1/37$
 In: -19.010 ± 0.053 $\chi^2/\text{NDF}: 6506.6/40$
 Out: -19.070 ± 0.051 $\chi^2/\text{NDF}: 8154.1/44$
 All: -19.041 ± 0.037 $\chi^2/\text{NDF}: 14661.4/85$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.194 $\pm$ 0.008 χ^2 /NDF: 6324.2/17

Left Out: 0.387 $\pm$ 0.003 χ^2 /NDF:995.0/24

Right Out: -0.232 $\pm$ 0.007 χ^2 /NDF: 6285.9/19

Left In: 0.389 $\pm$ 0.003 χ^2 /NDF:1256.9/22

Left: 0.388 $\pm$ 0.002 χ^2 /NDF: 2252.2/47

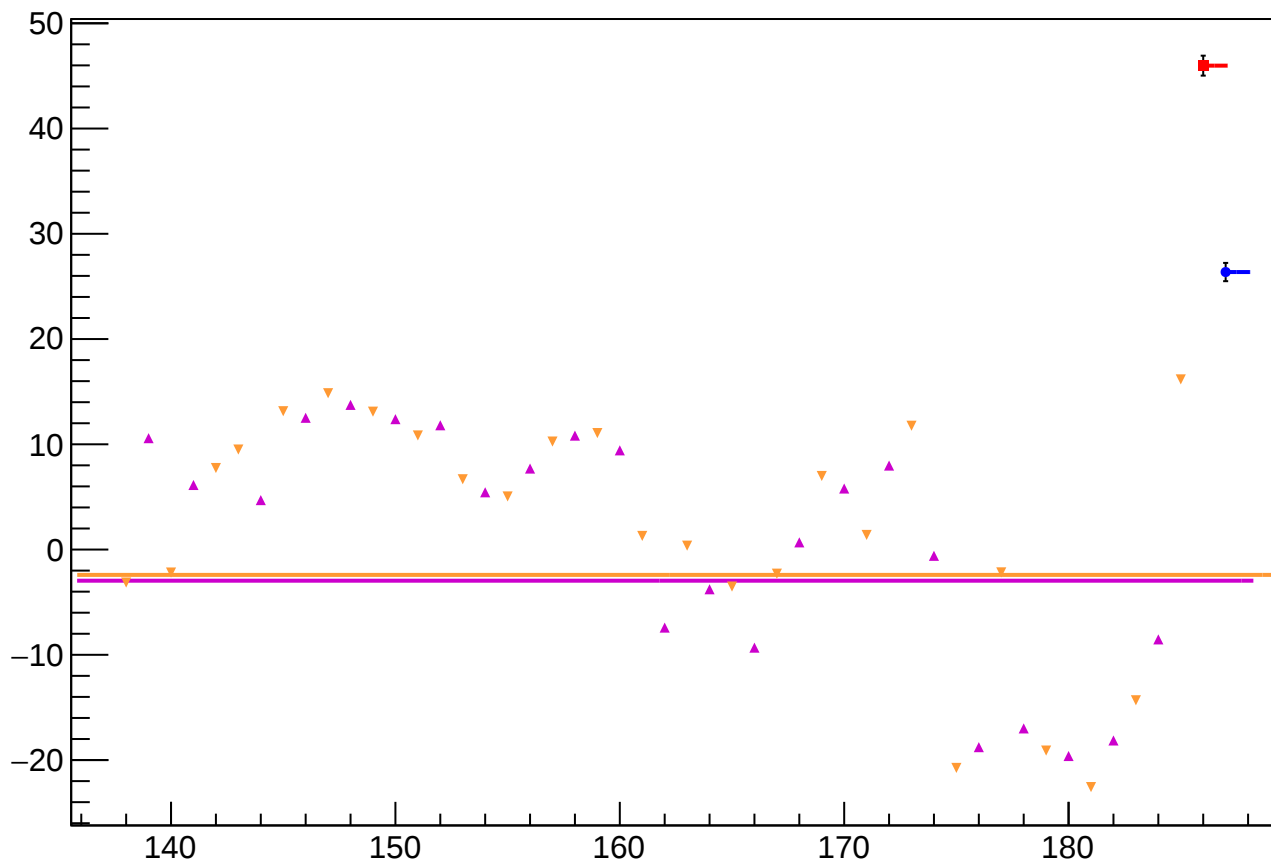
Right: -0.214 $\pm$ 0.005 χ^2 /NDF: 12623.1/37

In: 0.326 $\pm$ 0.002 χ^2 /NDF:12915.7/40

Out: 0.317 $\pm$ 0.002 χ^2 /NDF:13904.5/44

All: 0.322 $\pm$ 0.002 χ^2 /NDF: 26827.5/85

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: 45.976 $\pm$ 0.947 χ^2 /NDF: 0.0/0

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

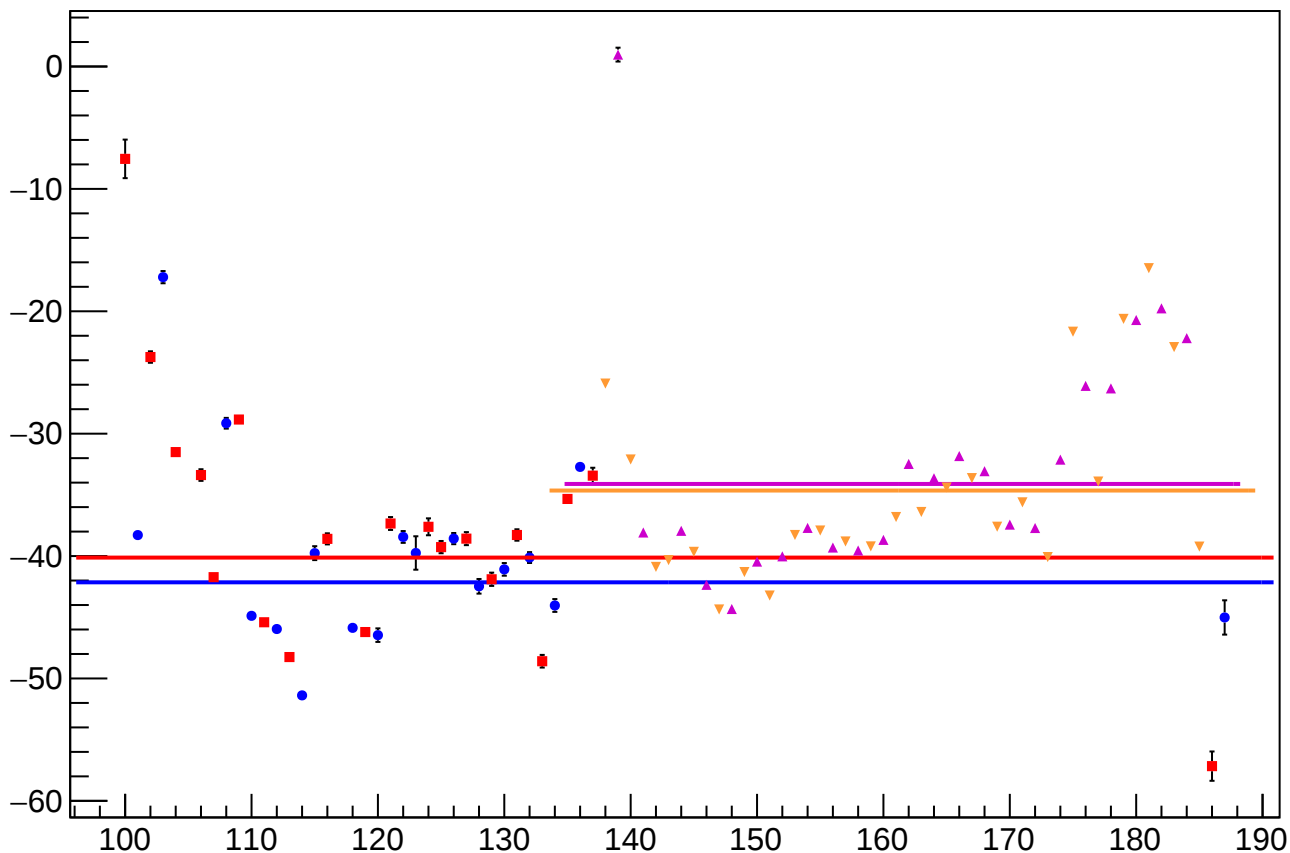
Right: 35.314 $\pm$ 0.640 χ^2 /NDF: 232.9/1

In: -2.843 $\pm$ 0.055 χ^2 /NDF: 47059.7/23

Out: -2.257 $\pm$ 0.053 χ^2 /NDF: 58968.4/25

All: -2.539 $\pm$ 0.038 χ^2 /NDF: 106087.4/49

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: -40.125 ± 0.073 $\chi^2/\text{NDF}: 11523.6/19$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

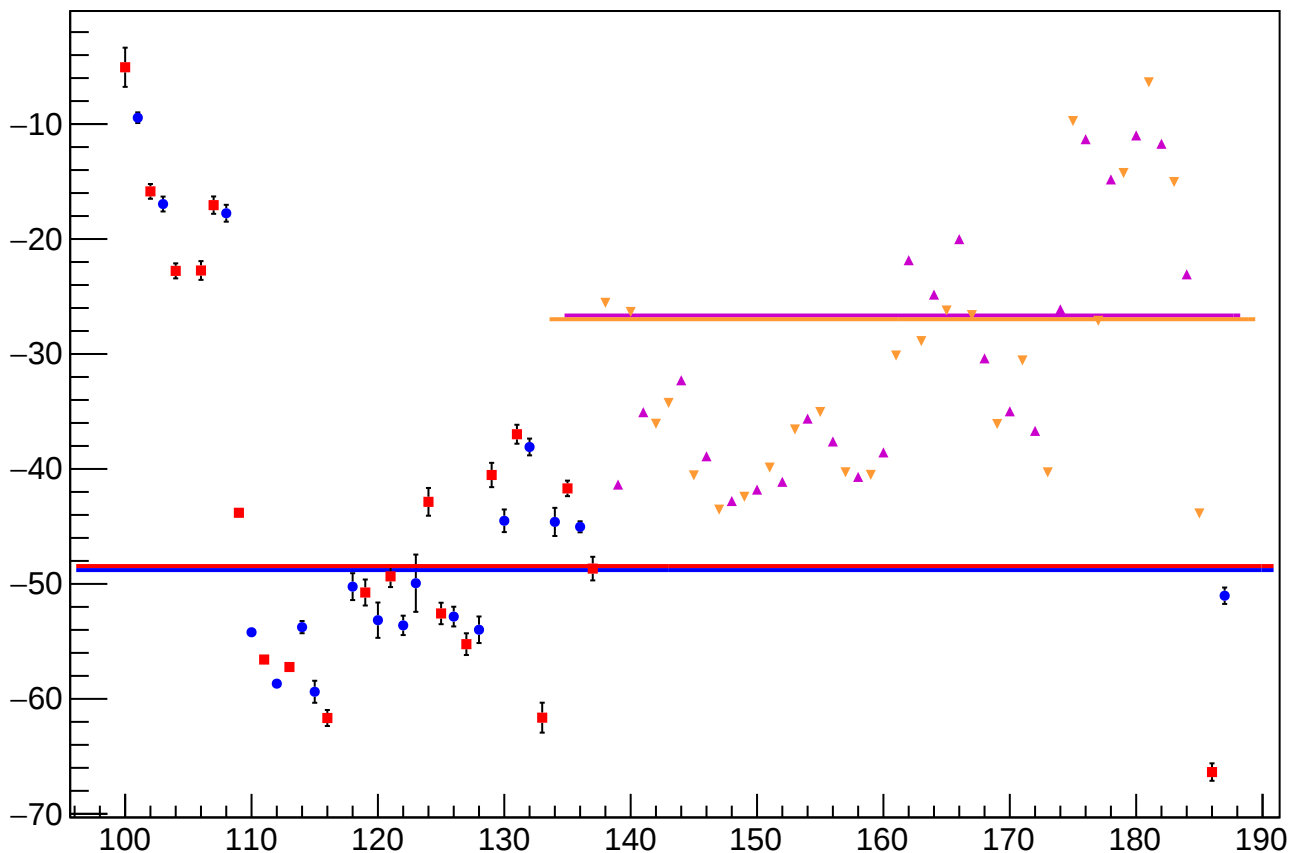
Right: -41.063 ± 0.053 $\chi^2/\text{NDF}: 18439.9/37$

In: -36.044 ± 0.038 $\chi^2/\text{NDF}: 43659.7/40$

Out: -36.007 ± 0.036 $\chi^2/\text{NDF}: 50469.9/44$

All: -36.024 ± 0.026 $\chi^2/\text{NDF}: 94130.1/85$

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: -48.446 ± 0.106 $\chi^2/\text{NDF}: 12301.1/19$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

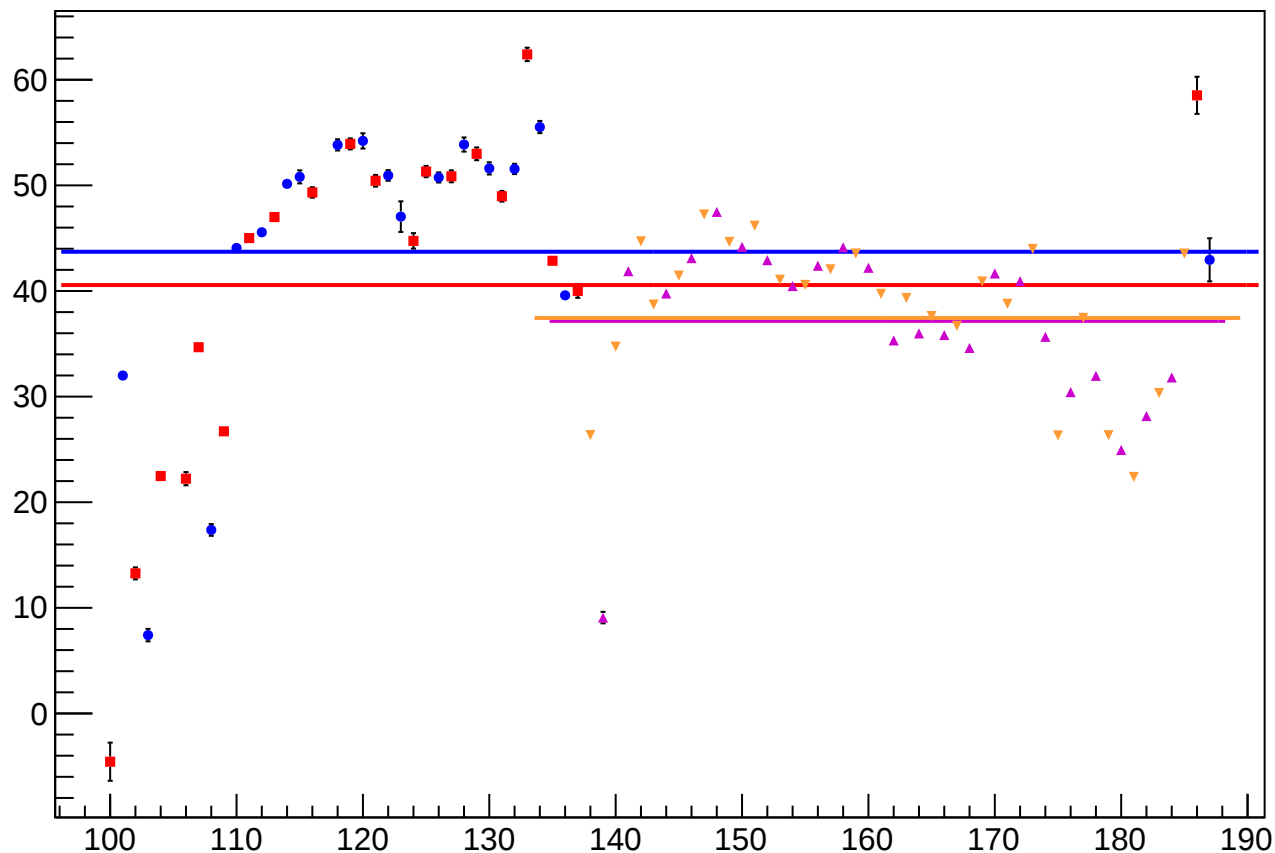
Right: -48.596 ± 0.080 $\chi^2/\text{NDF}: 26975.3/37$

In: -30.338 ± 0.050 $\chi^2/\text{NDF}: 83811.4/40$

Out: -31.281 ± 0.048 $\chi^2/\text{NDF}: 94321.0/44$

All: -30.835 ± 0.035 $\chi^2/\text{NDF}: 178318.5/85$

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: 40.562 $\pm$ 0.080 χ^2 /NDF: 17683.2/19

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

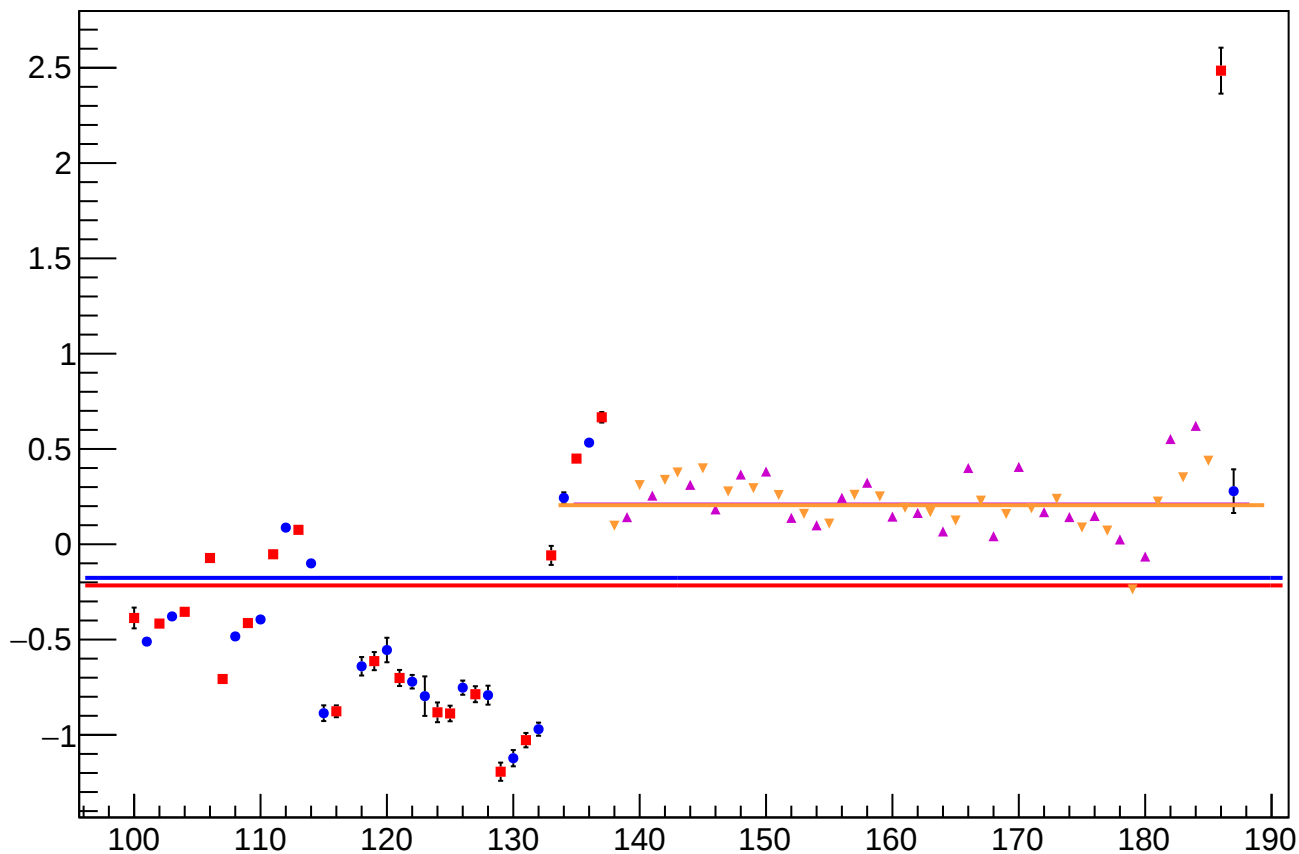
Right: 42.010 $\pm$ 0.059 χ^2 /NDF: 28958.3/37

In: 38.760 $\pm$ 0.043 χ^2 /NDF:32091.1/40

Out: 38.248 $\pm$ 0.041 χ^2 /NDF:40376.0/44

All: 38.490 $\pm$ 0.029 χ^2 /NDF: 72542.3/85

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: -0.216 ± 0.004 χ^2/NDF : 7919.7/19

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

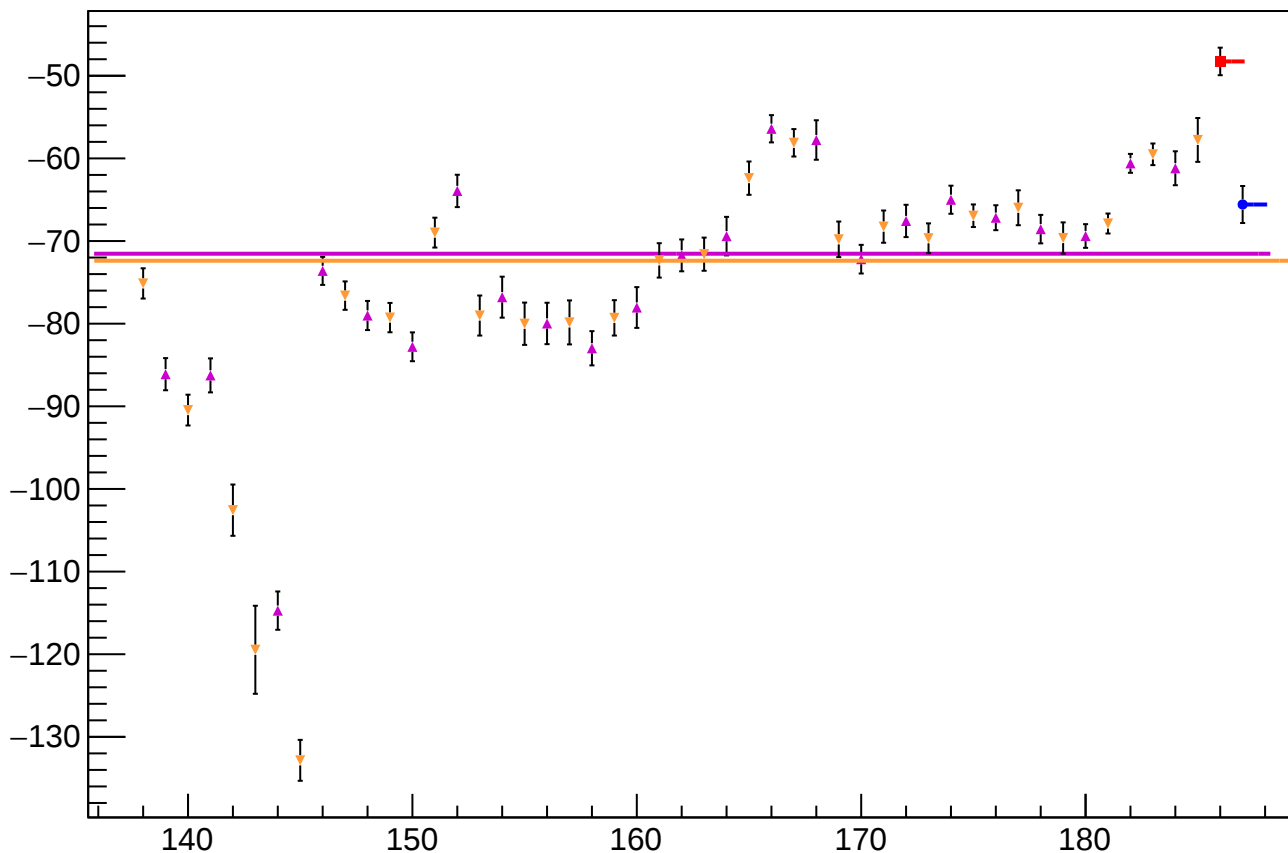
Right: -0.198 ± 0.003 χ^2/NDF : 15326.5/37

In: 0.140 ± 0.002 χ^2/NDF : 17658.5/40

Out: 0.119 ± 0.002 χ^2/NDF : 19375.7/44

All: 0.129 ± 0.001 χ^2/NDF : 37089.8/85

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



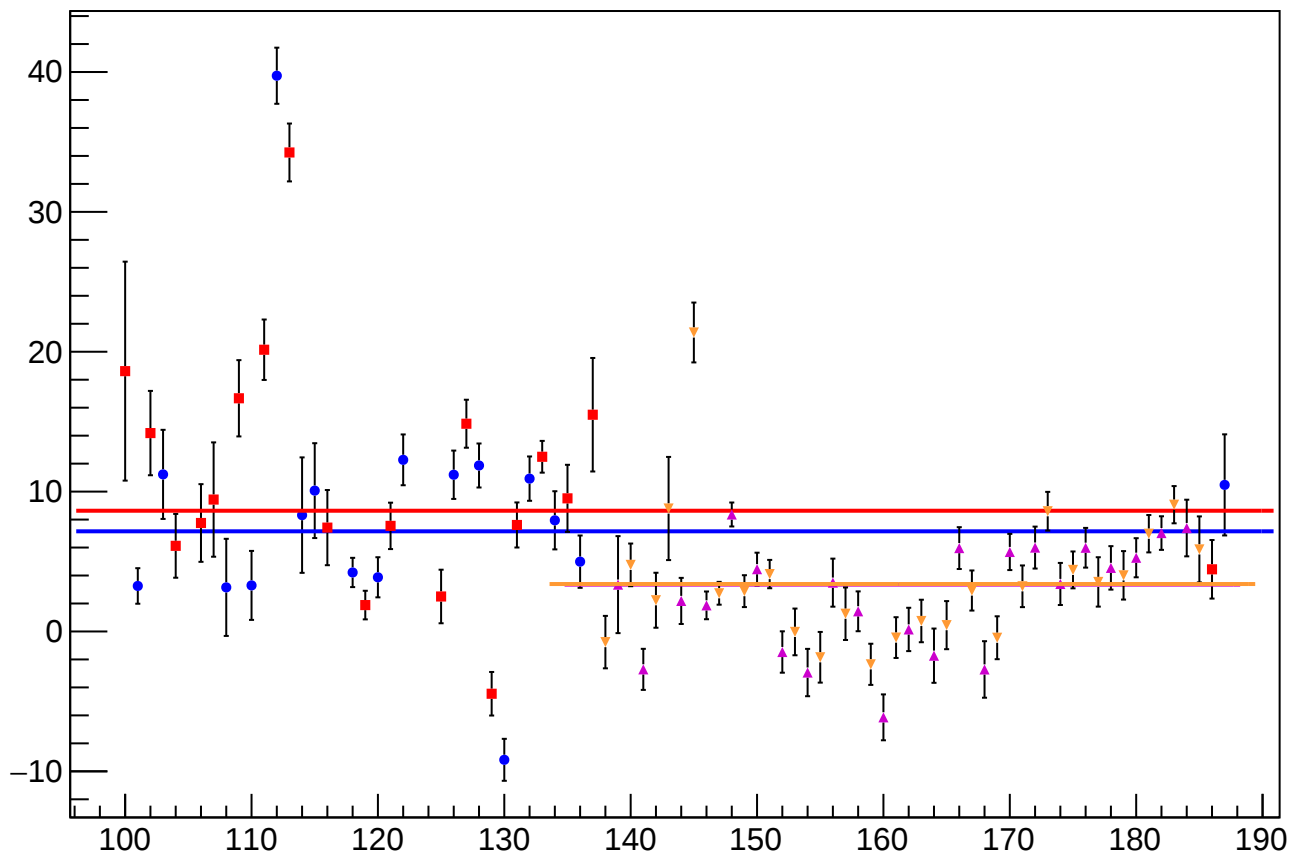
Right In: -65.579 ± 2.239 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -72.381 ± 0.382 $\chi^2/\text{NDF}: 1199.9/24$
 Right Out: -48.267 ± 1.666 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -71.534 ± 0.382 $\chi^2/\text{NDF}: 851.4/22$

Left: -71.957 ± 0.270 $\chi^2/\text{NDF}: 2053.7/47$
 Right: -54.435 ± 1.337 $\chi^2/\text{NDF}: 38.5/1$

In: -71.366 ± 0.376 $\chi^2/\text{NDF}: 858.3/23$
 Out: -71.178 ± 0.372 $\chi^2/\text{NDF}: 1398.9/25$

All: -71.271 ± 0.265 $\chi^2/\text{NDF}: 2257.3/49$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.161+/-0.437 χ^2/NDF : 441.3/16

Left Out: 3.392+/-0.294 χ^2/NDF :169.9/24

Right Out: 8.632+/-0.439 χ^2/NDF : 353.8/18

Left In: 3.349+/-0.298 χ^2/NDF :163.5/22

Left: 3.371+/-0.209 χ^2/NDF : 333.4/47

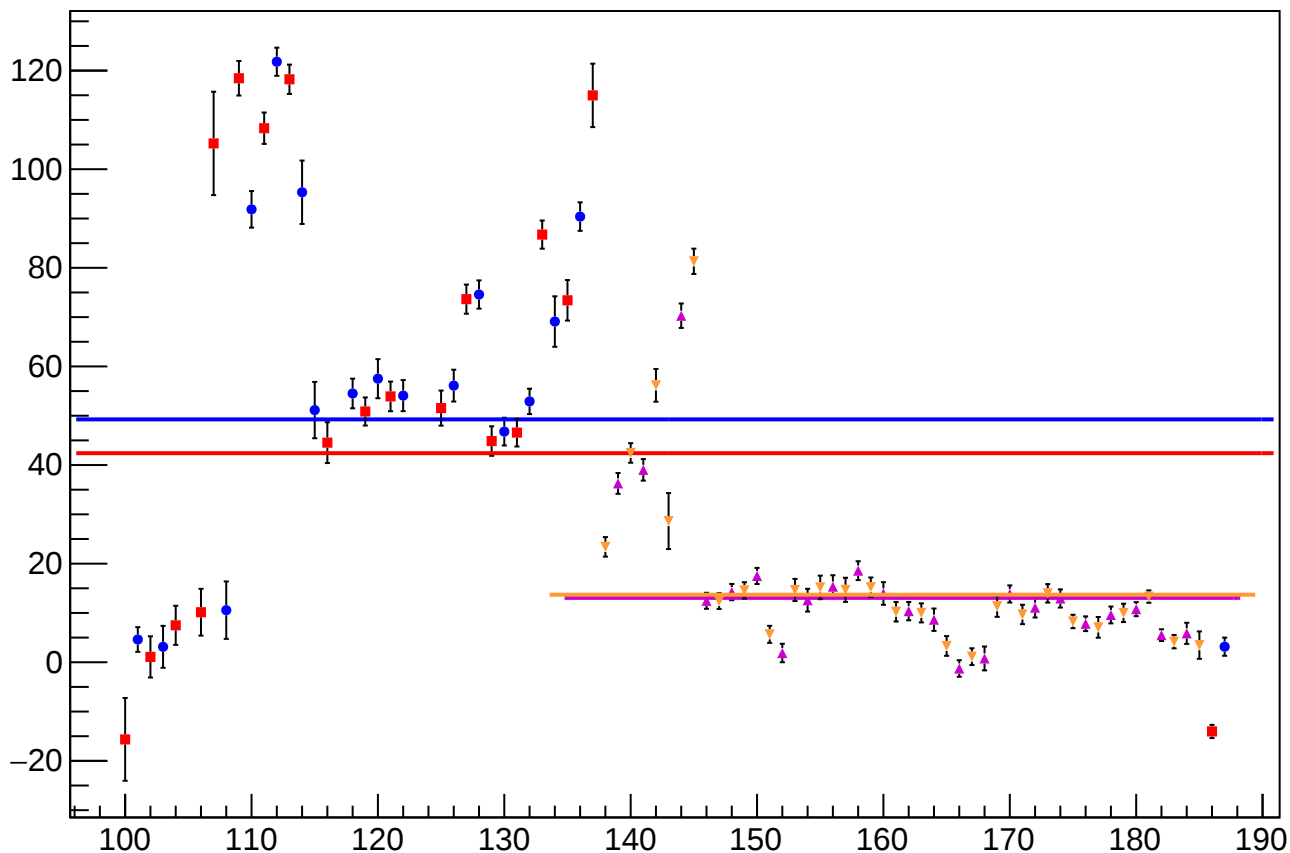
Right: 7.894+/-0.310 χ^2/NDF : 800.8/35

In: 4.560+/-0.246 χ^2/NDF :656.7/39

Out: 5.015+/-0.244 χ^2/NDF :622.2/43

All: 4.790+/-0.173 χ^2/NDF : 1280.7/83

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: 42.405+/-0.712 χ^2/NDF : 4204.9/18

Left In: 13.058+/-0.380 χ^2/NDF :1024.7/22

Left: 13.378+/-0.269 χ^2/NDF : 2333.1/47

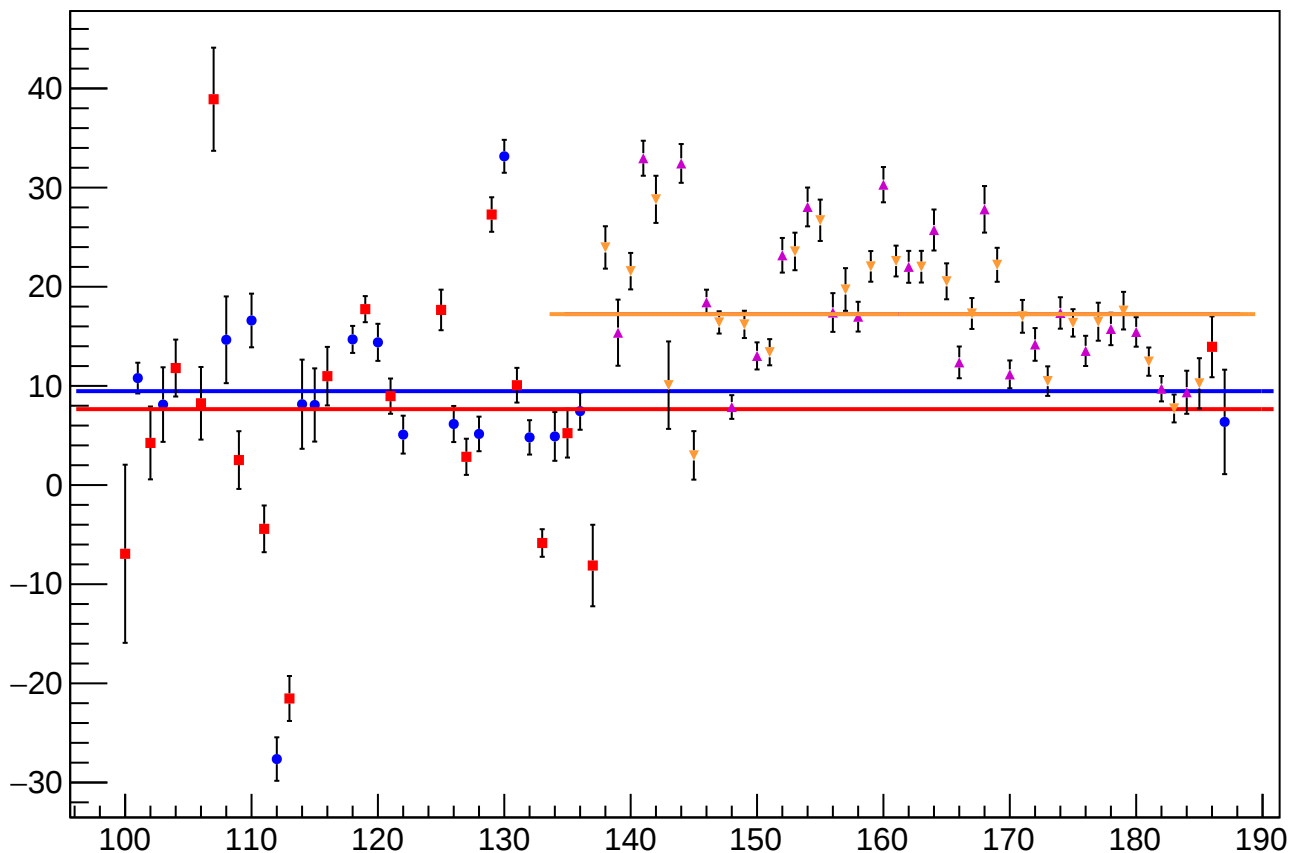
Right: 45.597+/-0.521 χ^2/NDF : 6496.6/35

In: 20.244+/-0.340 χ^2/NDF :5077.2/39

Out: 20.082+/-0.336 χ^2/NDF :6774.4/43

All: 20.162+/-0.239 χ^2/NDF : 11851.7/83

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: 7.655 ± 0.509 $\chi^2/\text{NDF}: 571.2/18$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.241 ± 0.239 $\chi^2/\text{NDF}: 687.3/47$

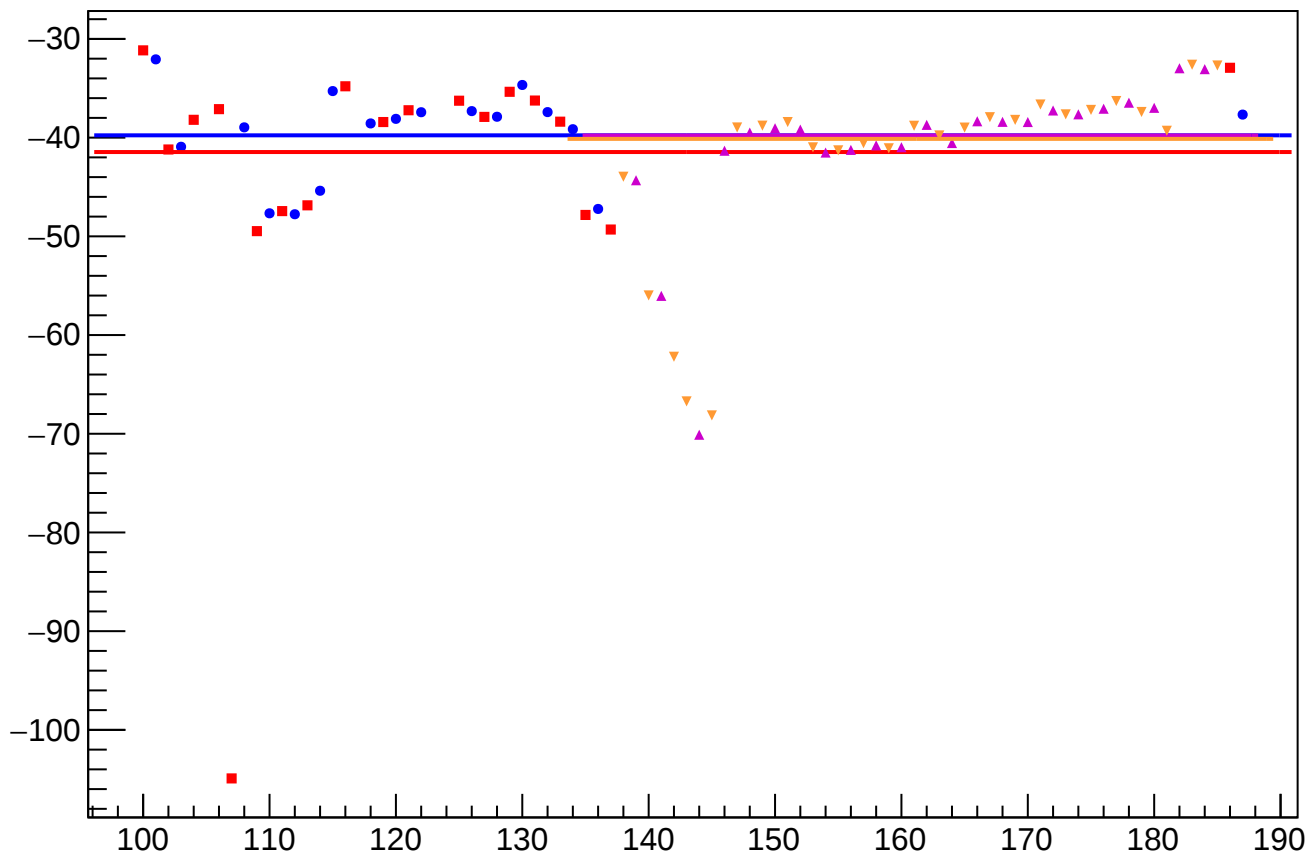
Right: 8.569 ± 0.359 $\chi^2/\text{NDF}: 1125.2/35$

In: 14.828 ± 0.282 $\chi^2/\text{NDF}: 1151.5/39$

Out: 14.326 ± 0.280 $\chi^2/\text{NDF}: 1064.7/43$

All: 14.576 ± 0.199 $\chi^2/\text{NDF}: 2217.8/83$

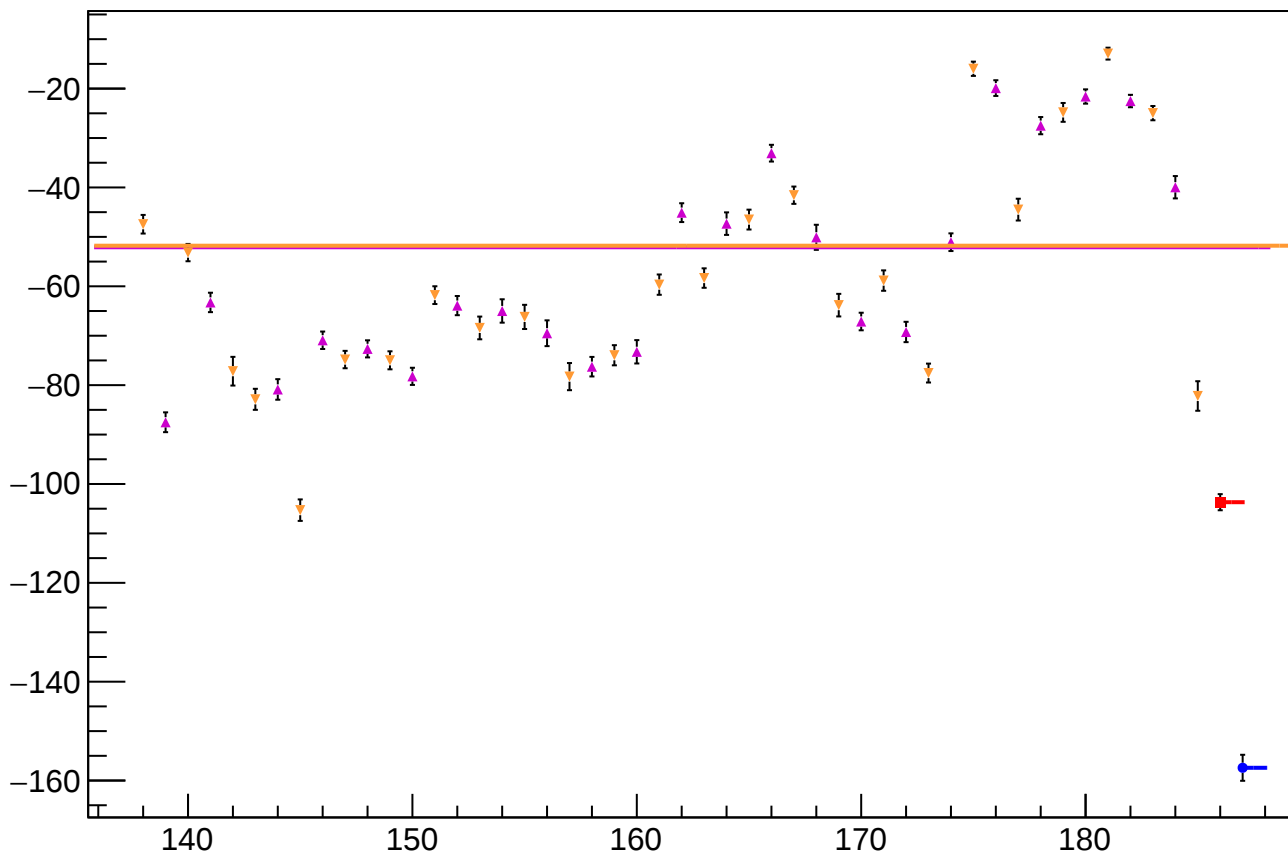
reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



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: -41.459 ± 0.031 $\chi^2/\text{NDF}: 96037.3/18$
 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: -40.618 ± 0.022 $\chi^2/\text{NDF}: 123682.6/35$
 In: -39.781 ± 0.014 $\chi^2/\text{NDF}: 170649.3/39$
 Out: -40.399 ± 0.014 $\chi^2/\text{NDF}: 283412.6/43$
 All: -40.090 ± 0.010 $\chi^2/\text{NDF}: 455039.0/83$

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: -103.683+/-1.632 χ^2/NDF : 0.0/0

Left In: -52.104+/-0.389 χ^2/NDF : 3280.2/22

Left: -51.943+/-0.273 χ^2/NDF : 7445.3/47

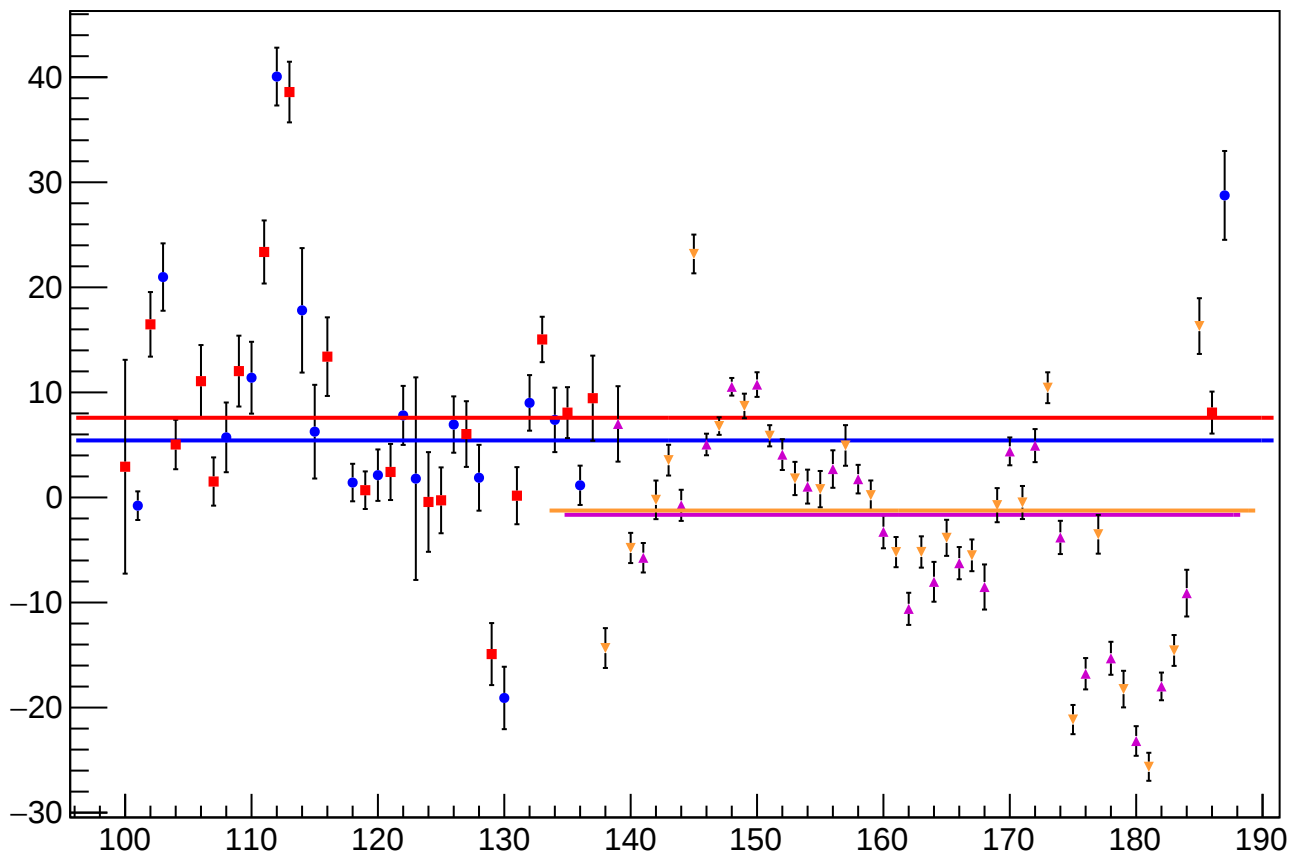
Right: -118.604+/-1.387 χ^2/NDF : 301.2/1

In: -54.352+/-0.384 χ^2/NDF : 4847.6/23

Out: -54.492+/-0.373 χ^2/NDF : 5123.8/25

All: -54.424+/-0.268 χ^2/NDF : 9971.4/49

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: 7.585 ± 0.619 $\chi^2/\text{NDF}: 270.6/19$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

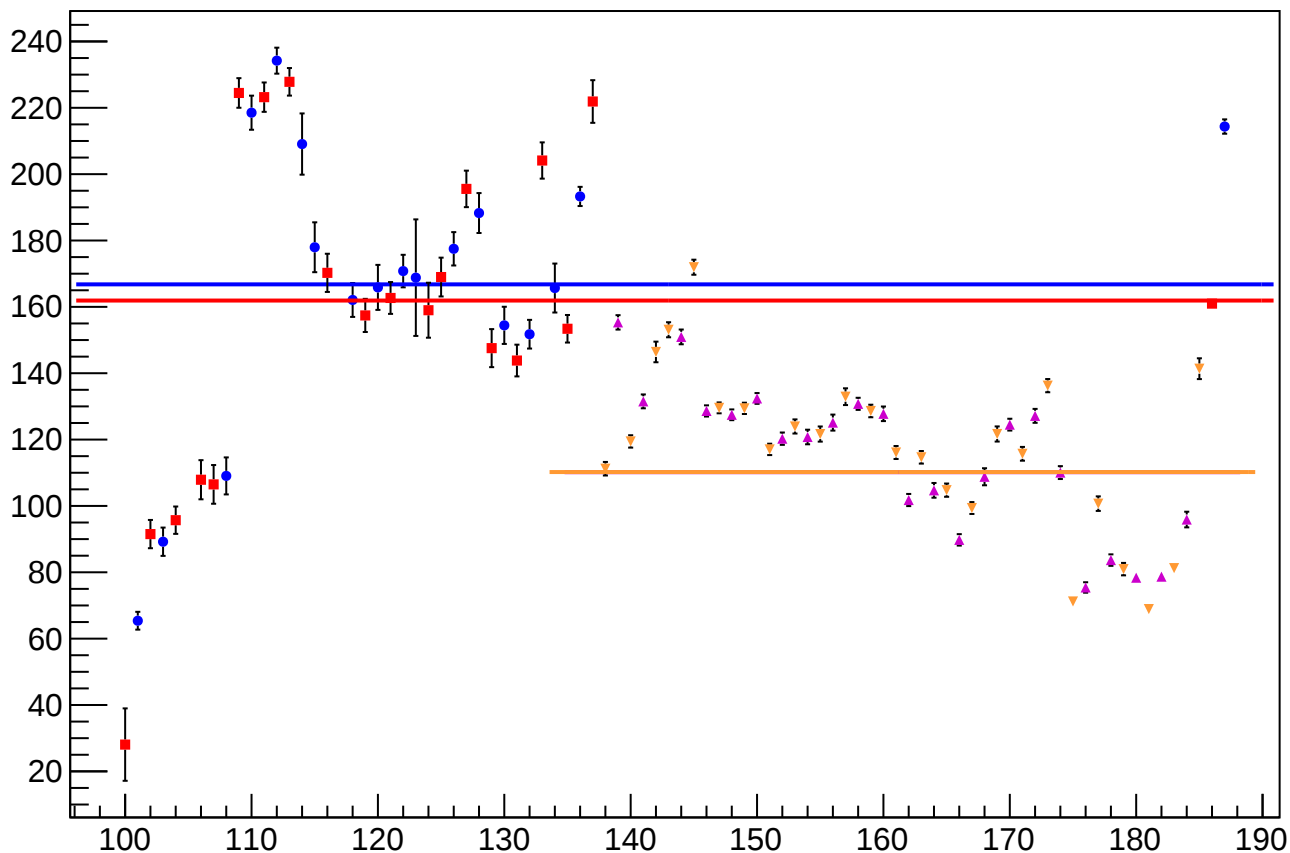
Right: 6.510 ± 0.439 $\chi^2/\text{NDF}: 602.1/37$

In: -0.313 ± 0.270 $\chi^2/\text{NDF}: 1522.7/40$

Out: 0.358 ± 0.264 $\chi^2/\text{NDF}: 1759.6/44$

All: 0.031 ± 0.189 $\chi^2/\text{NDF}: 3285.5/85$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 166.784 ± 1.017 $\chi^2/\text{NDF}: 2888.4/17$

Left Out: 110.213 ± 0.382 $\chi^2/\text{NDF}: 4593.7/24$

Right Out: 161.906 ± 0.875 $\chi^2/\text{NDF}: 1709.7/19$

Left In: 110.171 ± 0.386 $\chi^2/\text{NDF}: 3702.6/22$

Left: 110.192 ± 0.272 $\chi^2/\text{NDF}: 8296.2/47$

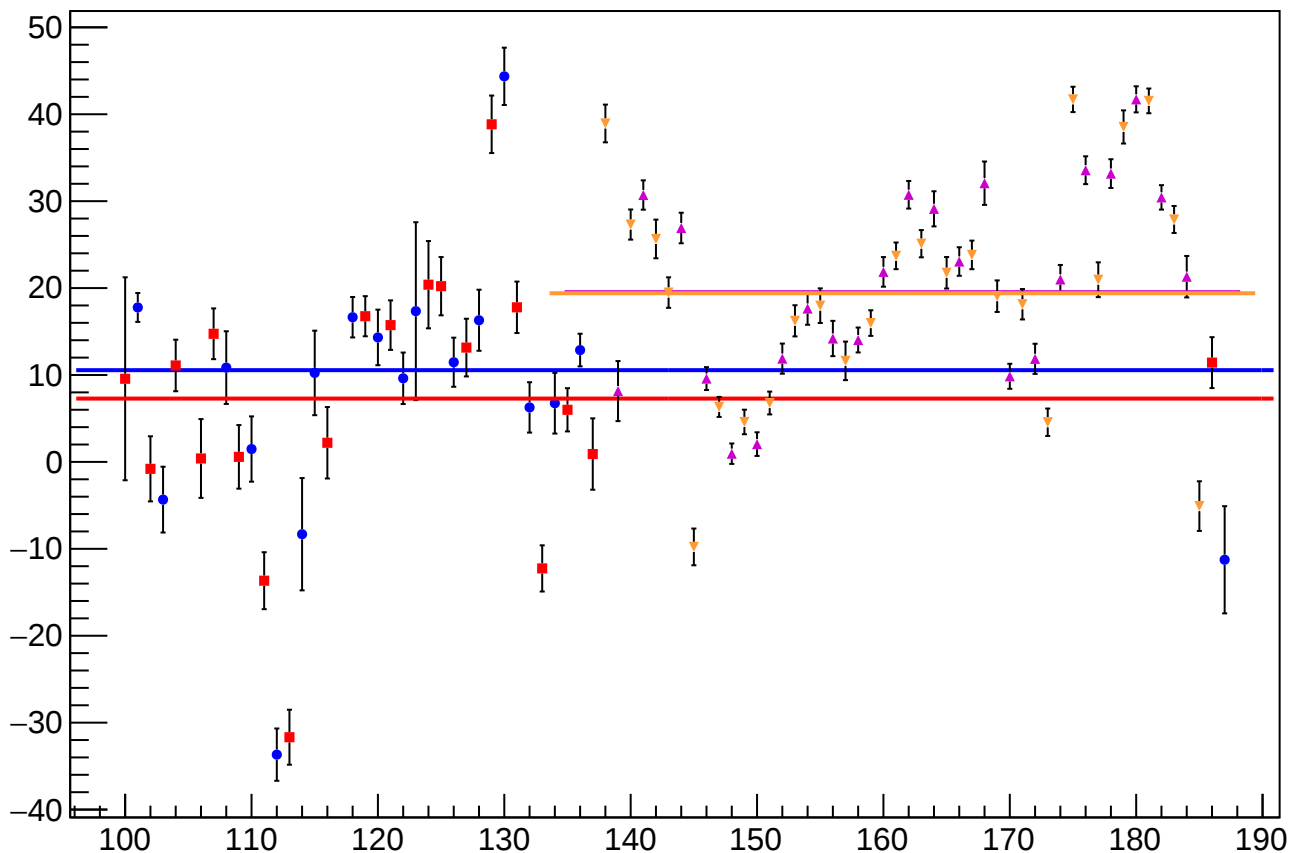
Right: 163.980 ± 0.663 $\chi^2/\text{NDF}: 4611.3/37$

In: 117.305 ± 0.361 $\chi^2/\text{NDF}: 9301.8/40$

Out: 118.497 ± 0.350 $\chi^2/\text{NDF}: 9237.3/44$

All: 117.919 ± 0.251 $\chi^2/\text{NDF}: 18544.7/85$

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.555 $\pm$ 0.716 χ^2 /NDF: 399.0/17

Left Out: 19.405 $\pm$ 0.335 χ^2 /NDF:1453.4/24

Right Out: 7.287 $\pm$ 0.725 χ^2 /NDF: 425.5/19

Left In: 19.530 $\pm$ 0.342 χ^2 /NDF:1181.3/22

Left: 19.466 $\pm$ 0.239 χ^2 /NDF: 2634.8/47

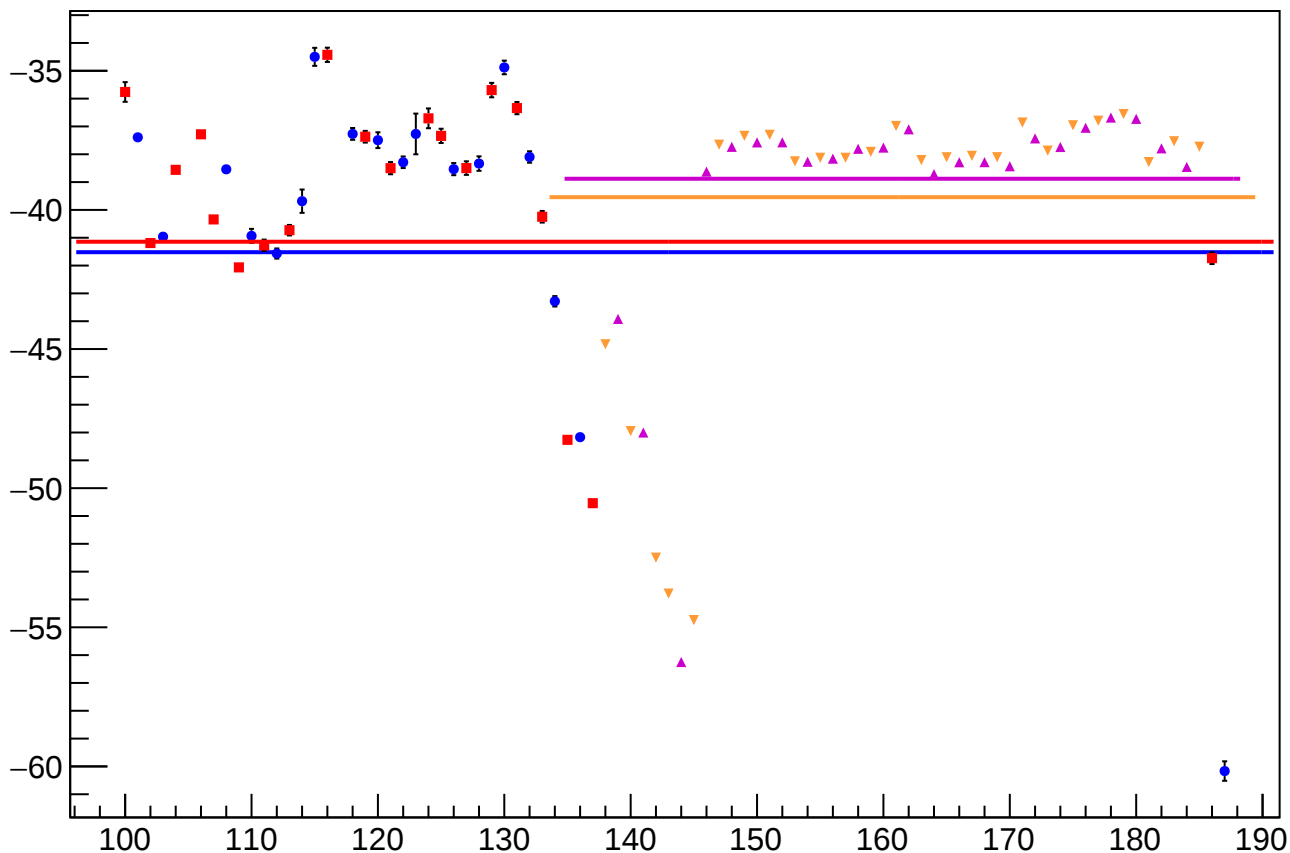
Right: 8.942 $\pm$ 0.509 χ^2 /NDF: 834.7/37

In: 17.858 $\pm$ 0.309 χ^2 /NDF:1708.3/40

Out: 17.278 $\pm$ 0.304 χ^2 /NDF:2109.0/44

All: 17.563 $\pm$ 0.217 χ^2 /NDF: 3819.0/85

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.519 ± 0.038 χ^2/NDF : 15372.1/17

Left Out: -39.542 ± 0.016 χ^2/NDF : 92024.1/24

Right Out: -41.143 ± 0.038 χ^2/NDF : 12123.1/19

Left In: -38.880 ± 0.016 χ^2/NDF : 53409.9/22

Left: -39.214 ± 0.011 χ^2/NDF : 146312.0/47

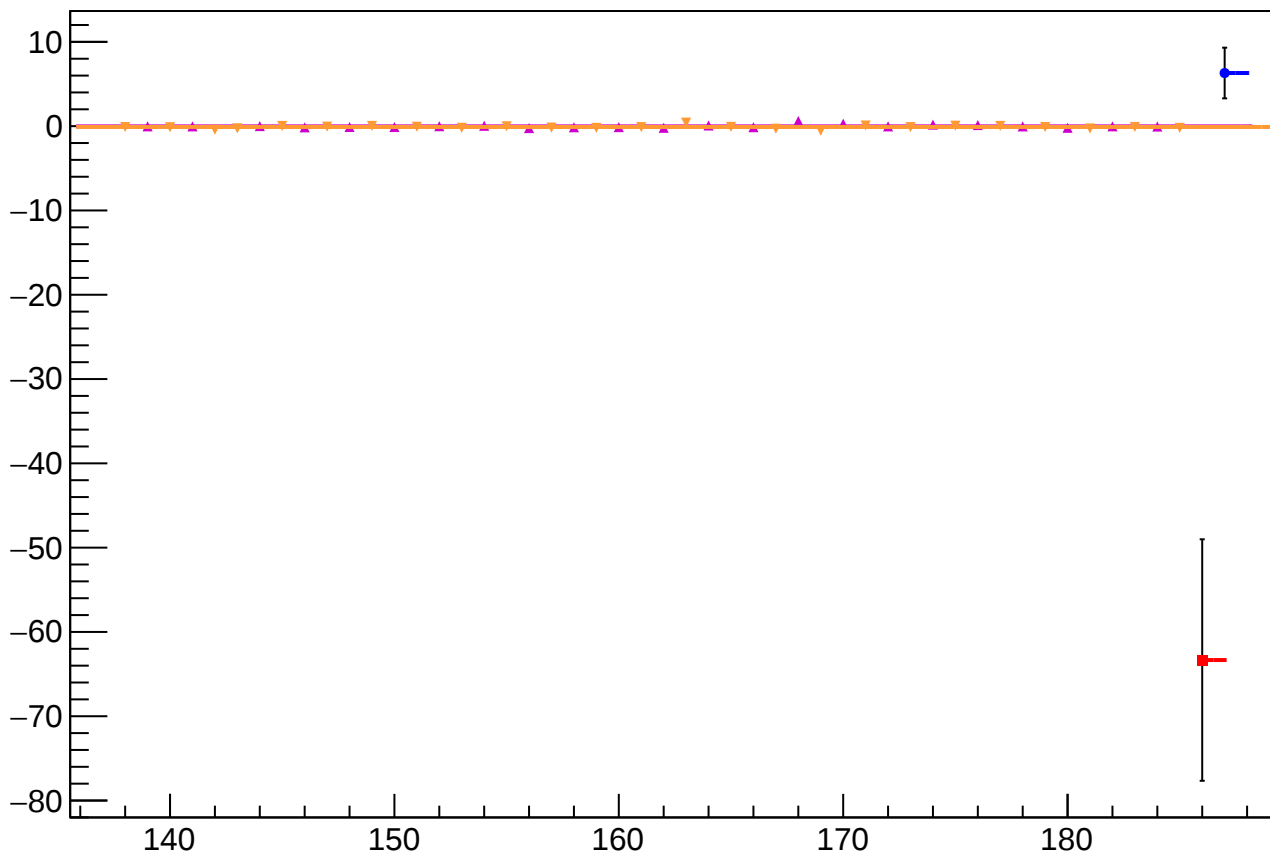
Right: -41.330 ± 0.027 χ^2/NDF : 27543.6/37

In: -39.264 ± 0.015 χ^2/NDF : 72816.7/40

Out: -39.775 ± 0.015 χ^2/NDF : 105659.1/44

All: -39.522 ± 0.010 χ^2/NDF : 179088.2/85

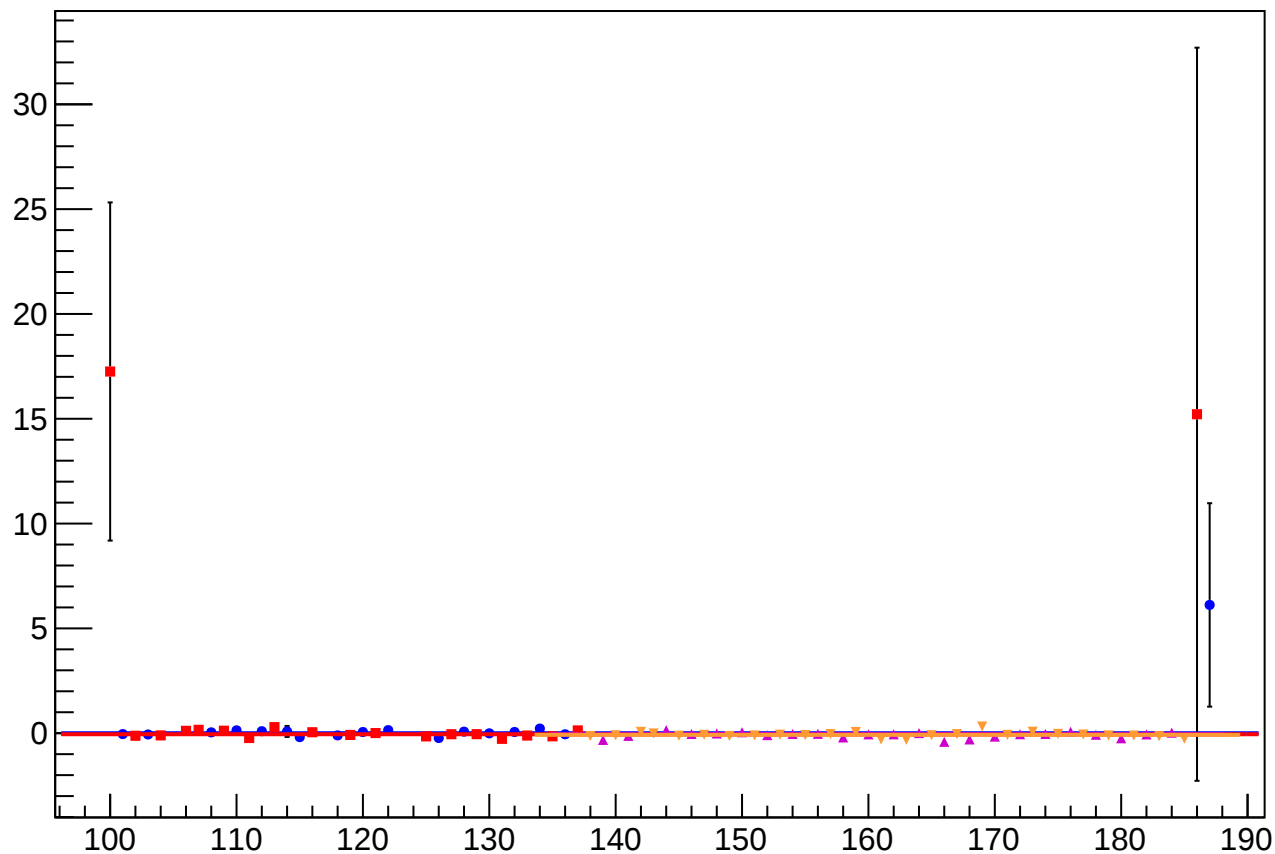
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



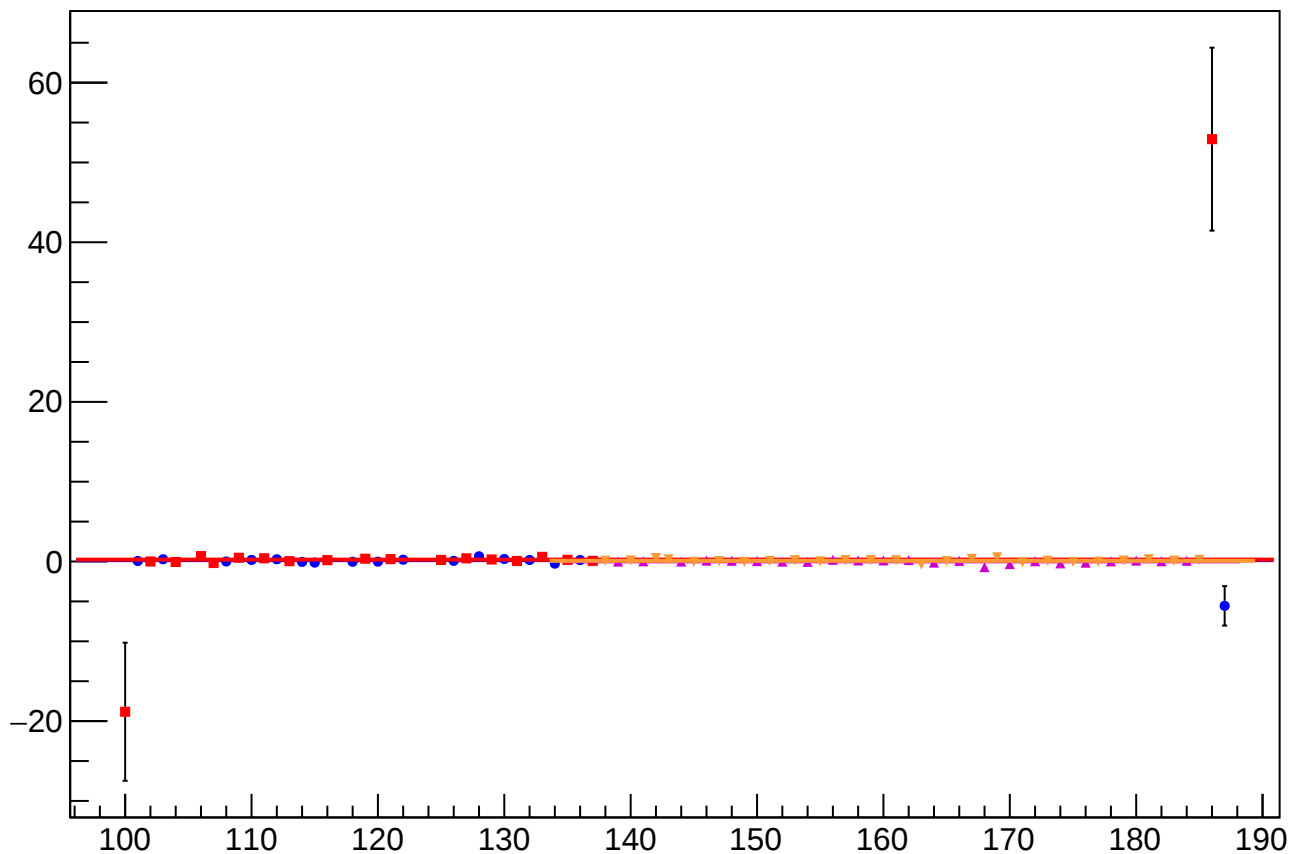
Right In: 6.304+/-3.007 χ^2/NDF : 0.0/0
 Left Out: -0.095+/-0.022 χ^2/NDF :41.8/24
 Right Out: -63.334+/-14.326 χ^2/NDF : 0.0/0
 Left In: -0.026+/-0.022 χ^2/NDF :33.3/22

Left: -0.061+/-0.016 χ^2/NDF : 80.1/47
 Right: 3.366+/-2.943 χ^2/NDF : 22.6/1
 In: -0.025+/-0.022 χ^2/NDF :37.7/23
 Out: -0.095+/-0.022 χ^2/NDF :61.3/25
 All: -0.061+/-0.016 χ^2/NDF : 104.1/49

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



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: 0.237 $\pm$ 0.054 χ^2 /NDF: 42.6/18

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

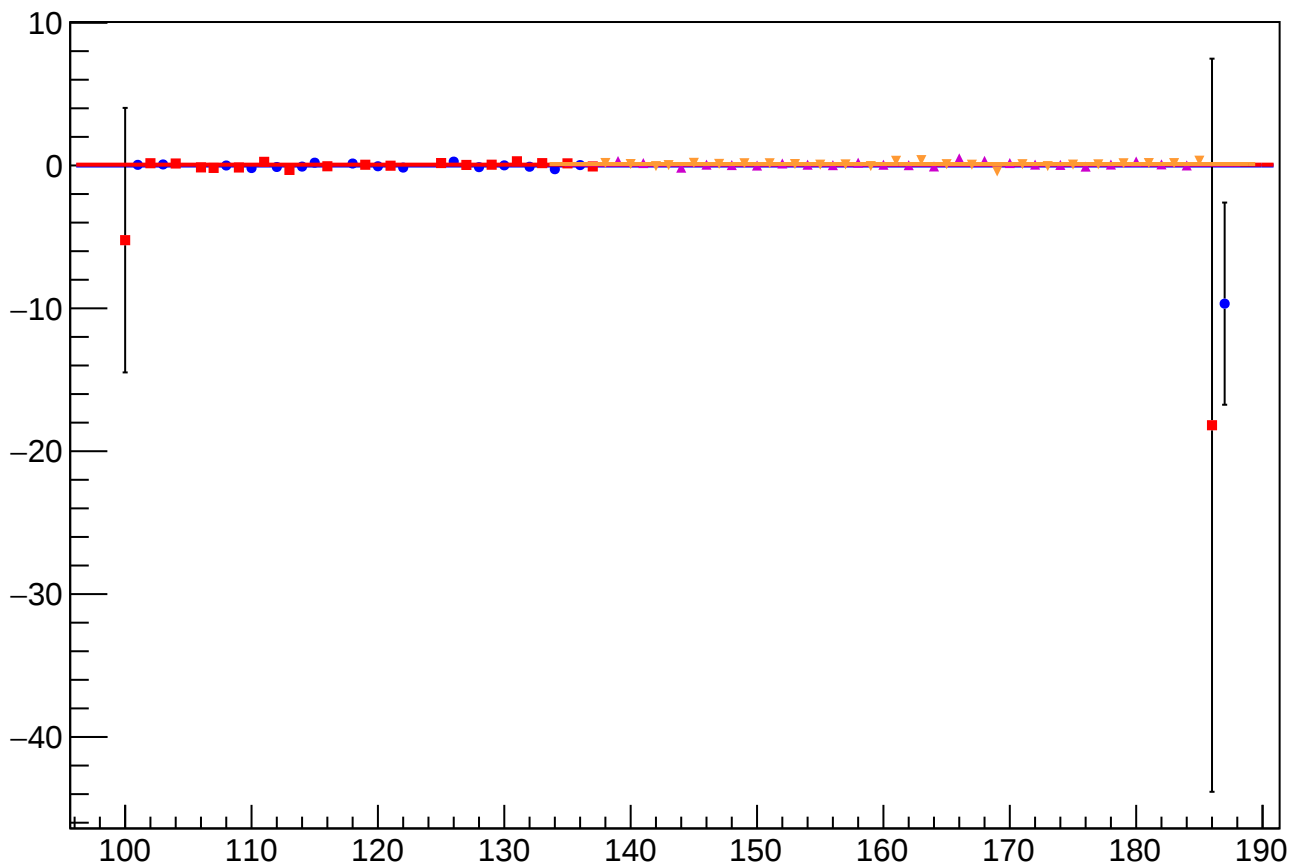
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 61.2/35

In: 0.043 $\pm$ 0.020 χ^2 /NDF:60.4/39

Out: 0.108 $\pm$ 0.020 χ^2 /NDF:90.0/43

All: 0.076 $\pm$ 0.014 χ^2 /NDF: 155.5/83

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 : 20.8/18

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.086 ± 0.014 χ^2/NDF : 63.0/47

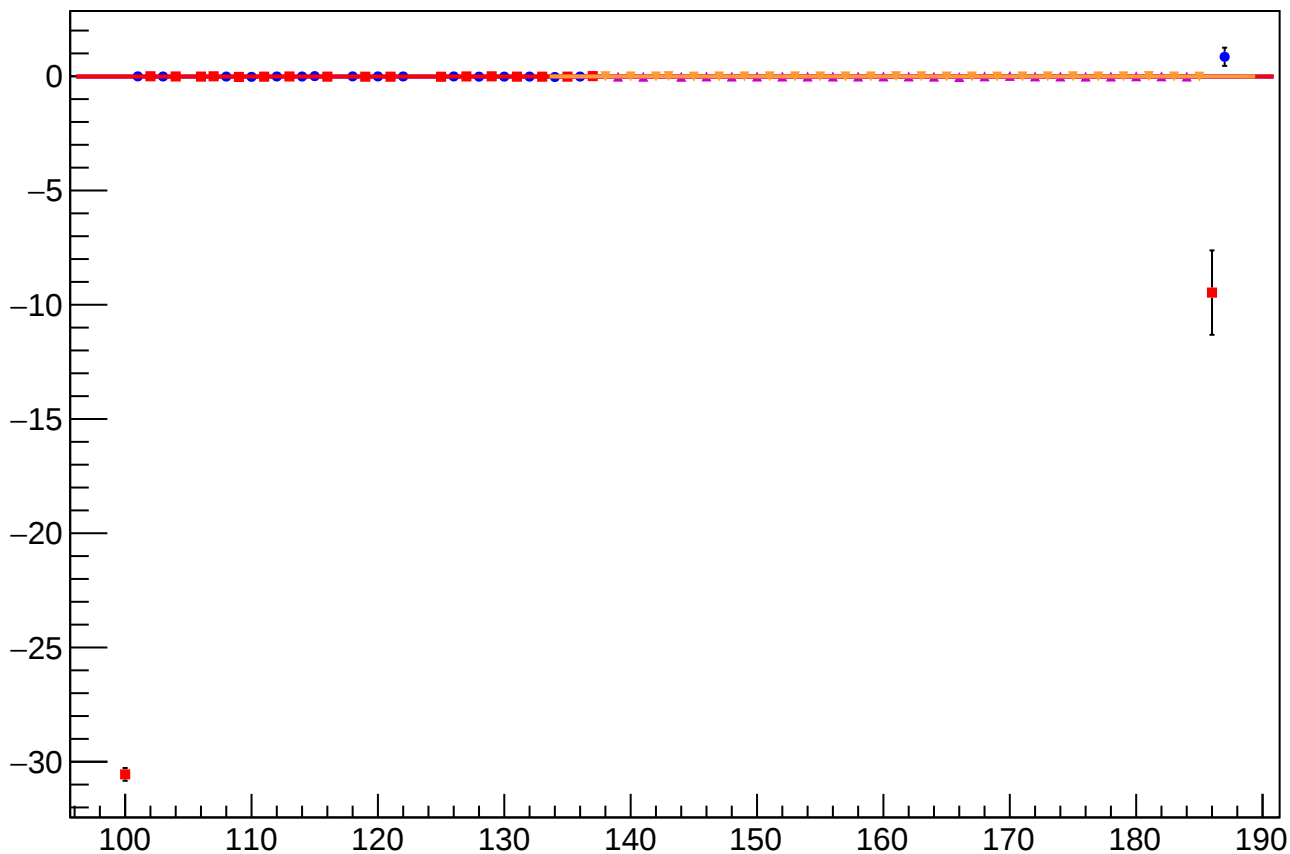
Right: 0.024 ± 0.024 χ^2/NDF : 38.6/35

In: 0.049 ± 0.017 χ^2/NDF : 51.1/39

Out: 0.091 ± 0.017 χ^2/NDF : 52.4/43

All: 0.070 ± 0.012 χ^2/NDF : 106.6/83

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: 11917.0/18

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

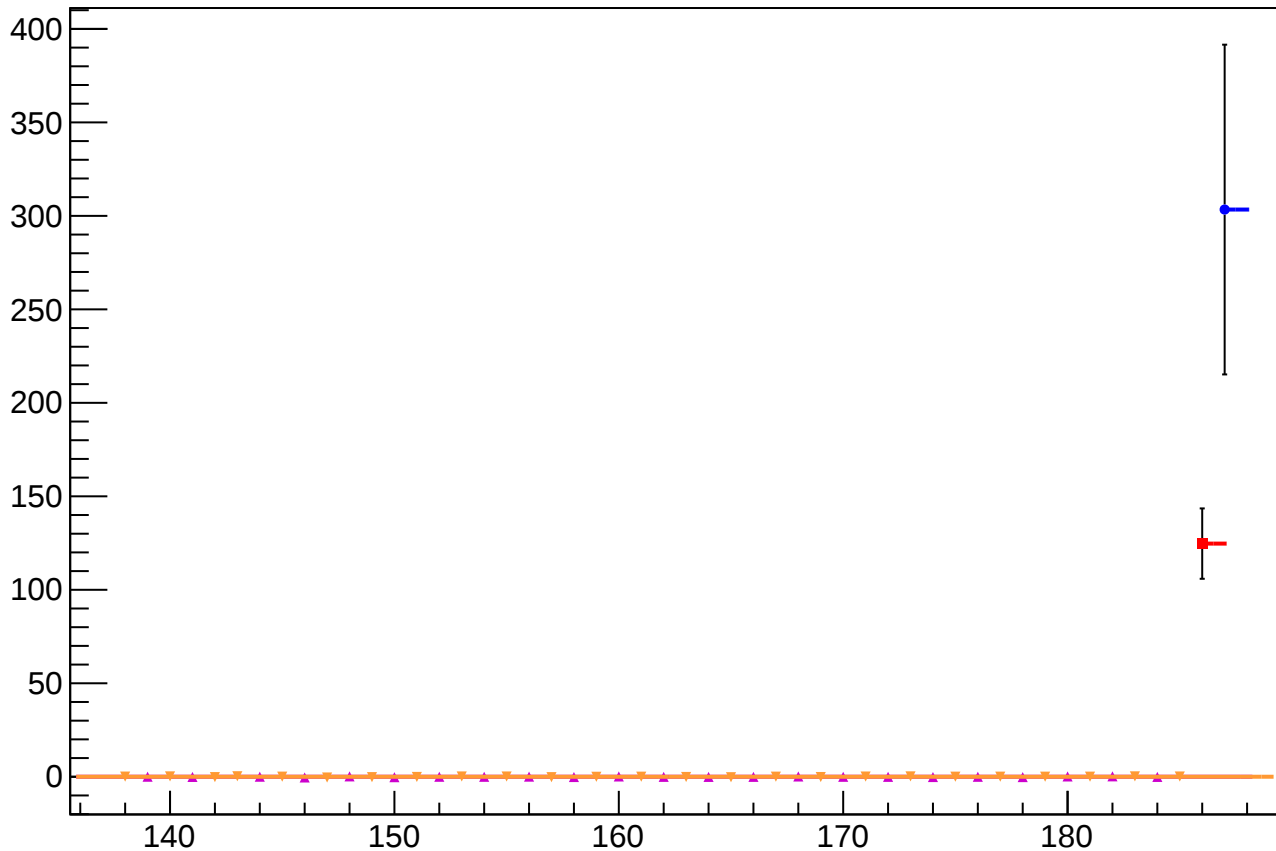
Right: -0.012 $\pm$ 0.001 χ^2 /NDF: 11934.4/35

In: -0.009 $\pm$ 0.001 χ^2 /NDF:60.7/39

Out: -0.008 $\pm$ 0.001 χ^2 /NDF:11956.6/43

All: -0.009 $\pm$ 0.001 χ^2 /NDF: 12017.9/83

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: 124.707 $\pm$ 18.821 χ^2 /NDF: 0.0/0

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

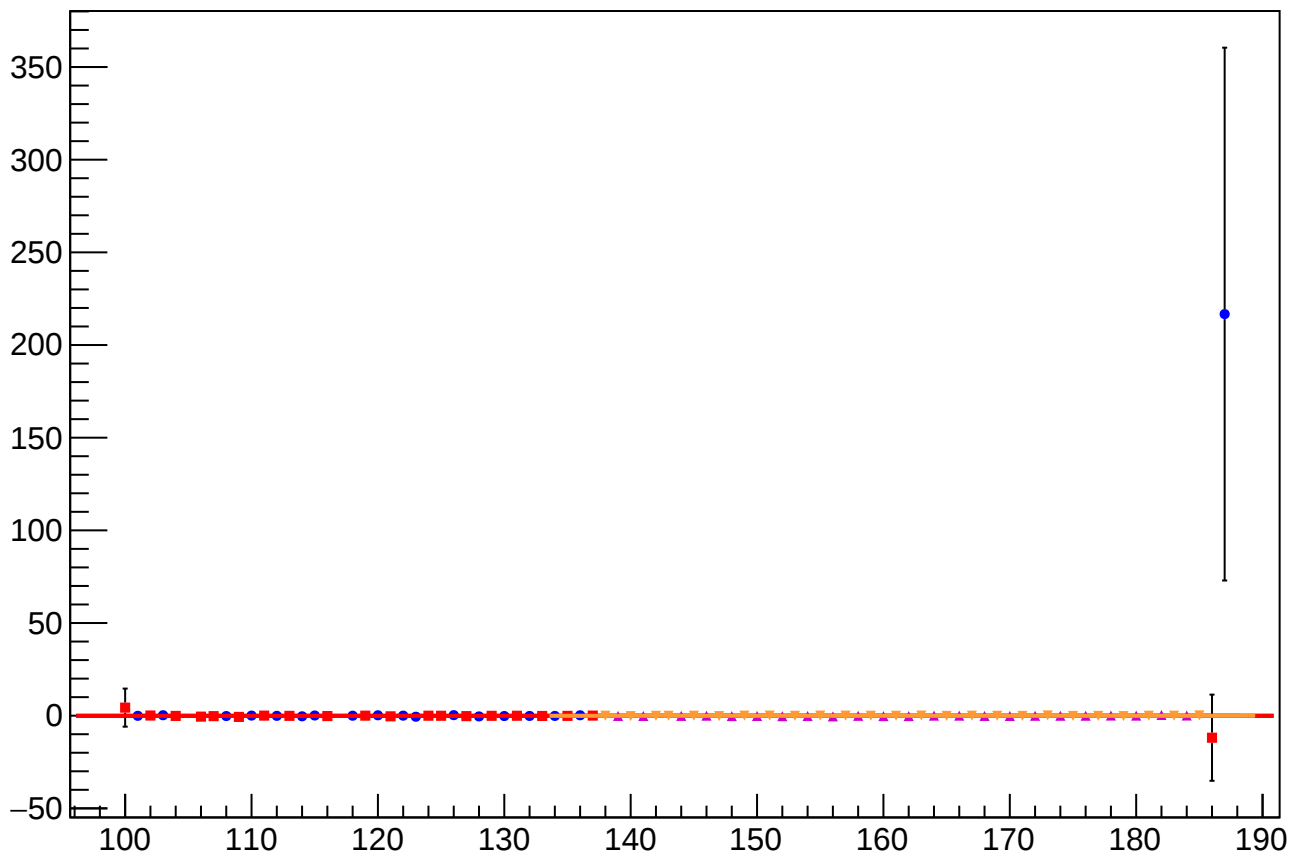
Right: 132.491 $\pm$ 18.406 χ^2 /NDF: 3.9/1

In: 0.002 $\pm$ 0.028 χ^2 /NDF:40.8/23

Out: 0.018 $\pm$ 0.027 χ^2 /NDF:74.8/25

All: 0.010 $\pm$ 0.019 χ^2 /NDF: 115.8/49

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 χ^2/NDF : 25.2/17

Left Out: -0.060 ± 0.021 χ^2/NDF : 24.6/24

Right Out: -0.120 ± 0.039 χ^2/NDF : 18.7/19

Left In: -0.071 ± 0.022 χ^2/NDF : 49.0/22

Left: -0.065 ± 0.015 χ^2/NDF : 73.7/47

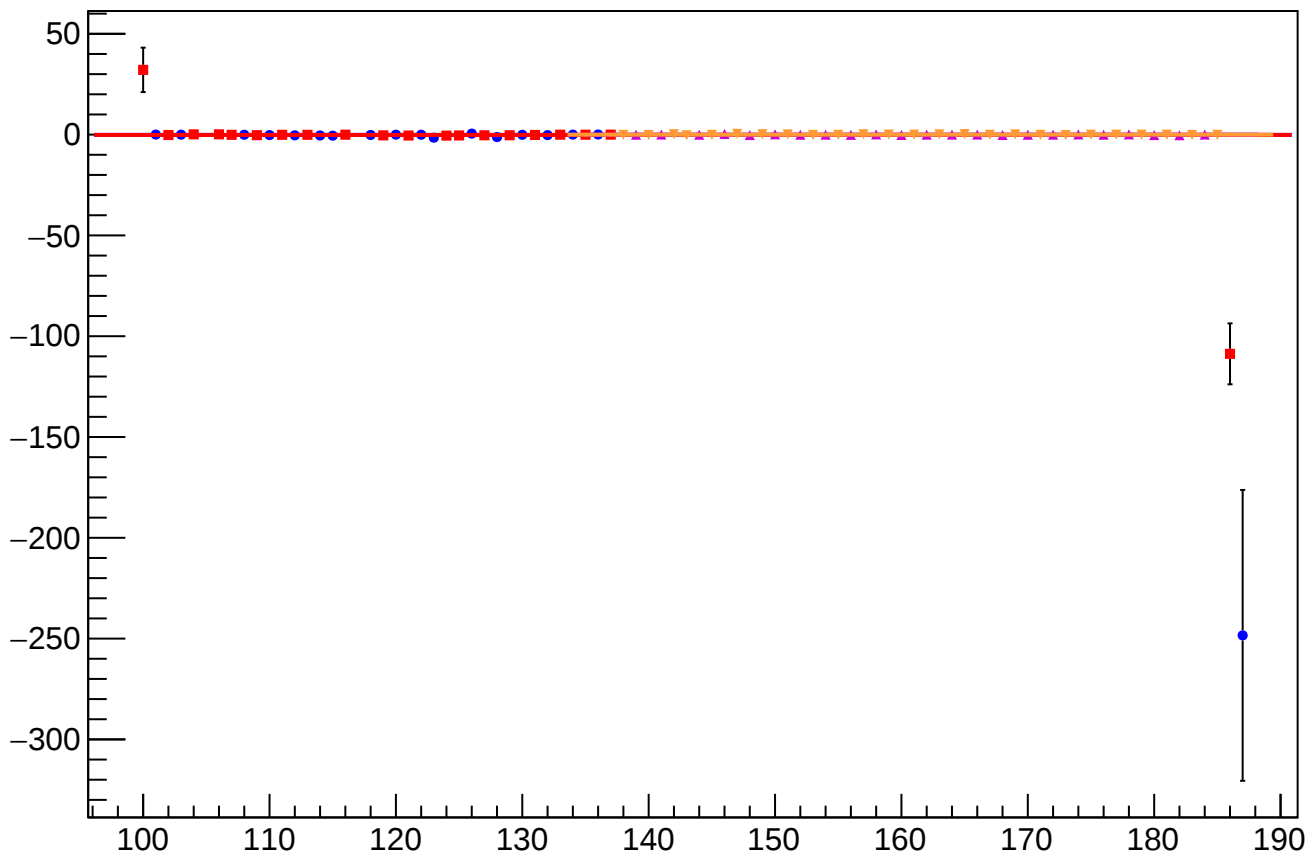
Right: -0.068 ± 0.027 χ^2/NDF : 47.3/37

In: -0.058 ± 0.019 χ^2/NDF : 75.5/40

Out: -0.073 ± 0.019 χ^2/NDF : 45.2/44

All: -0.066 ± 0.013 χ^2/NDF : 121.0/85

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 : 66.1/19

Left In: -0.033 ± 0.027 χ^2/NDF : 28.5/22

Left: -0.025 ± 0.019 χ^2/NDF : 57.6/47

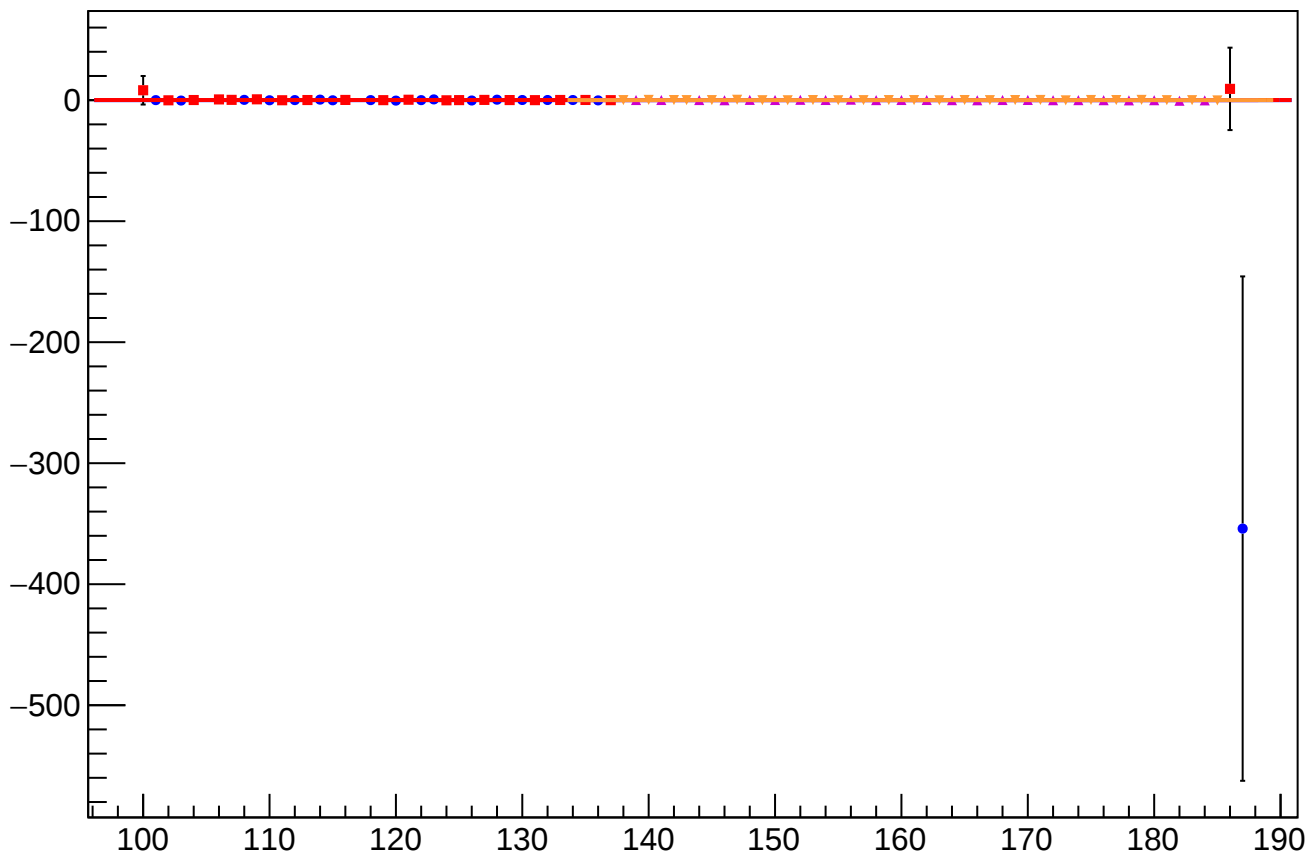
Right: -0.150 ± 0.049 χ^2/NDF : 102.7/37

In: -0.047 ± 0.025 χ^2/NDF : 67.0/40

Out: -0.037 ± 0.025 χ^2/NDF : 98.9/44

All: -0.042 ± 0.018 χ^2/NDF : 166.0/85

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: 16.9/19

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

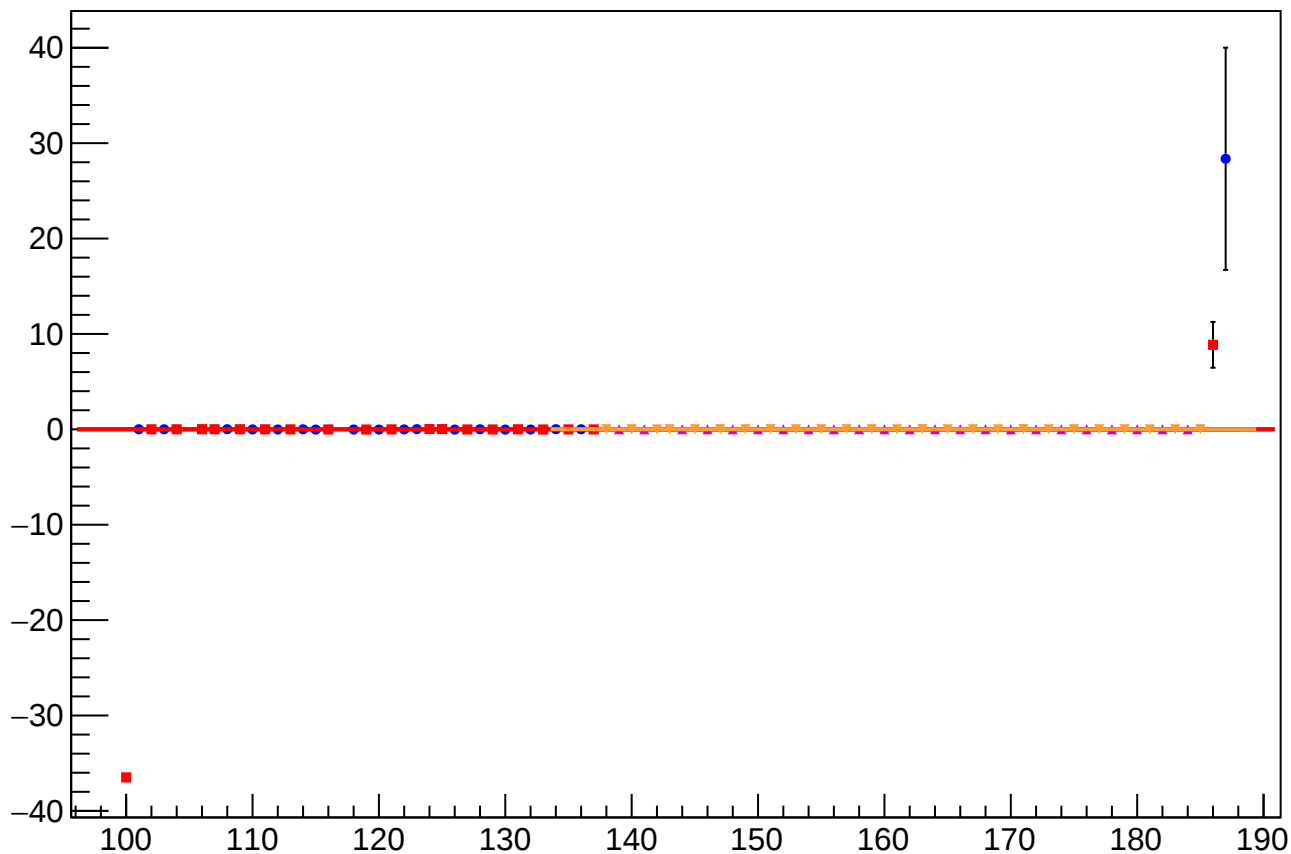
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 45.4/37

In: 0.056 $\pm$ 0.021 χ^2 /NDF:77.4/40

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:44.0/44

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 122.0/85

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: 10462.7/19

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

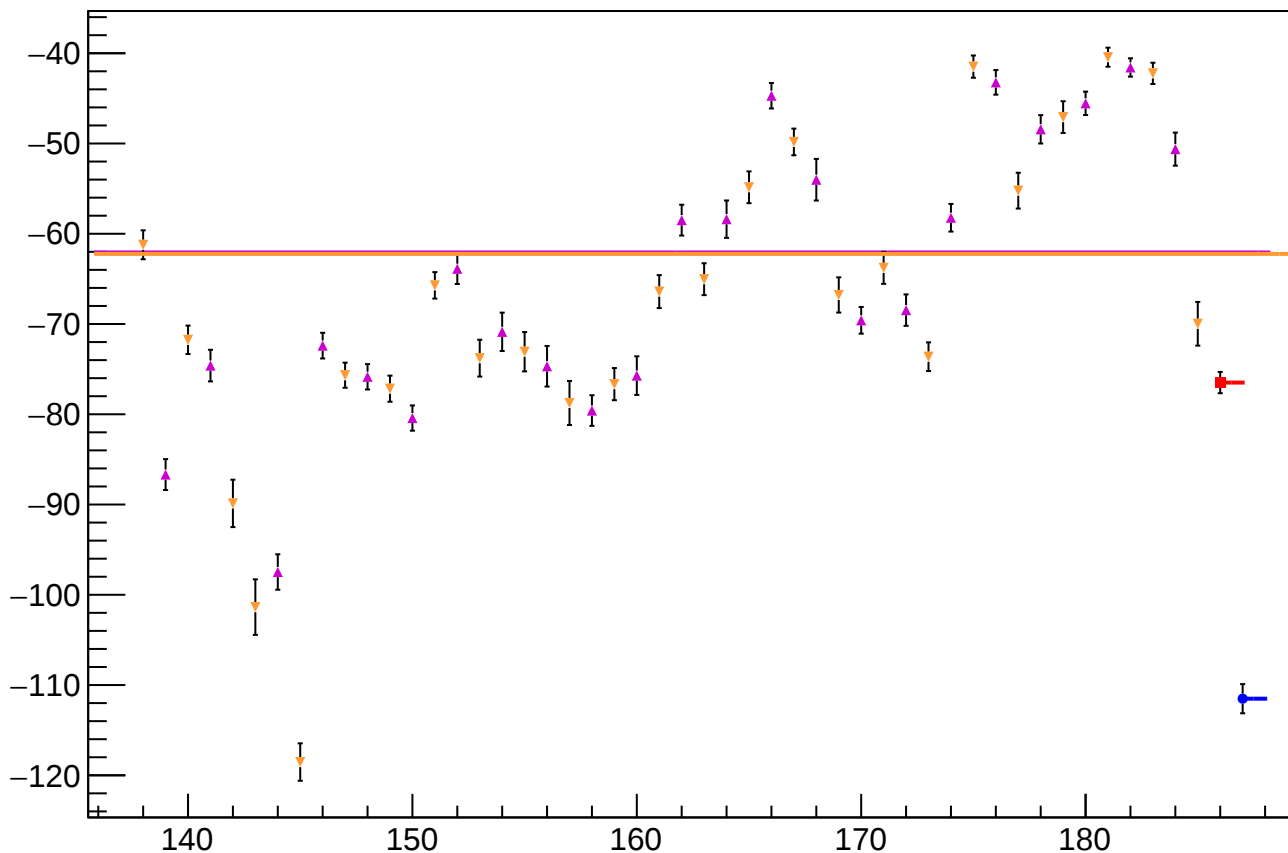
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10499.2/37

In: 0.007 $\pm$ 0.001 χ^2 /NDF:60.9/40

Out: 0.007 $\pm$ 0.001 χ^2 /NDF:10498.0/44

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10559.0/85

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: -76.488 $\pm$ 1.179 χ^2 /NDF: 0.0/0

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

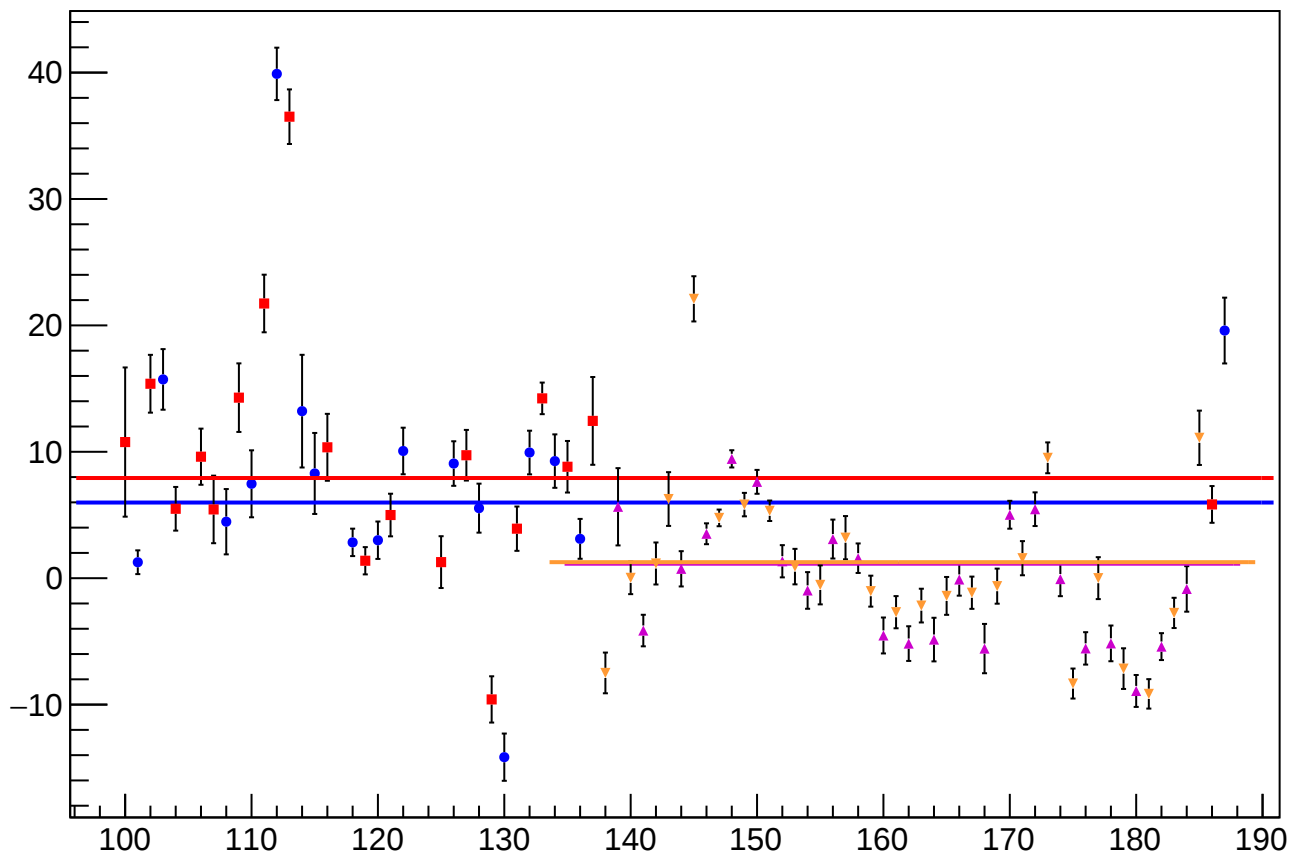
Right: -88.634 $\pm$ 0.953 χ^2 /NDF: 306.3/1

In: -64.075 $\pm$ 0.326 χ^2 /NDF:3088.4/23

Out: -63.280 $\pm$ 0.319 χ^2 /NDF:2804.1/25

All: -63.670 $\pm$ 0.228 χ^2 /NDF: 5895.5/49

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: 7.926 $\pm$ 0.433 χ^2 /NDF: 409.9/18

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

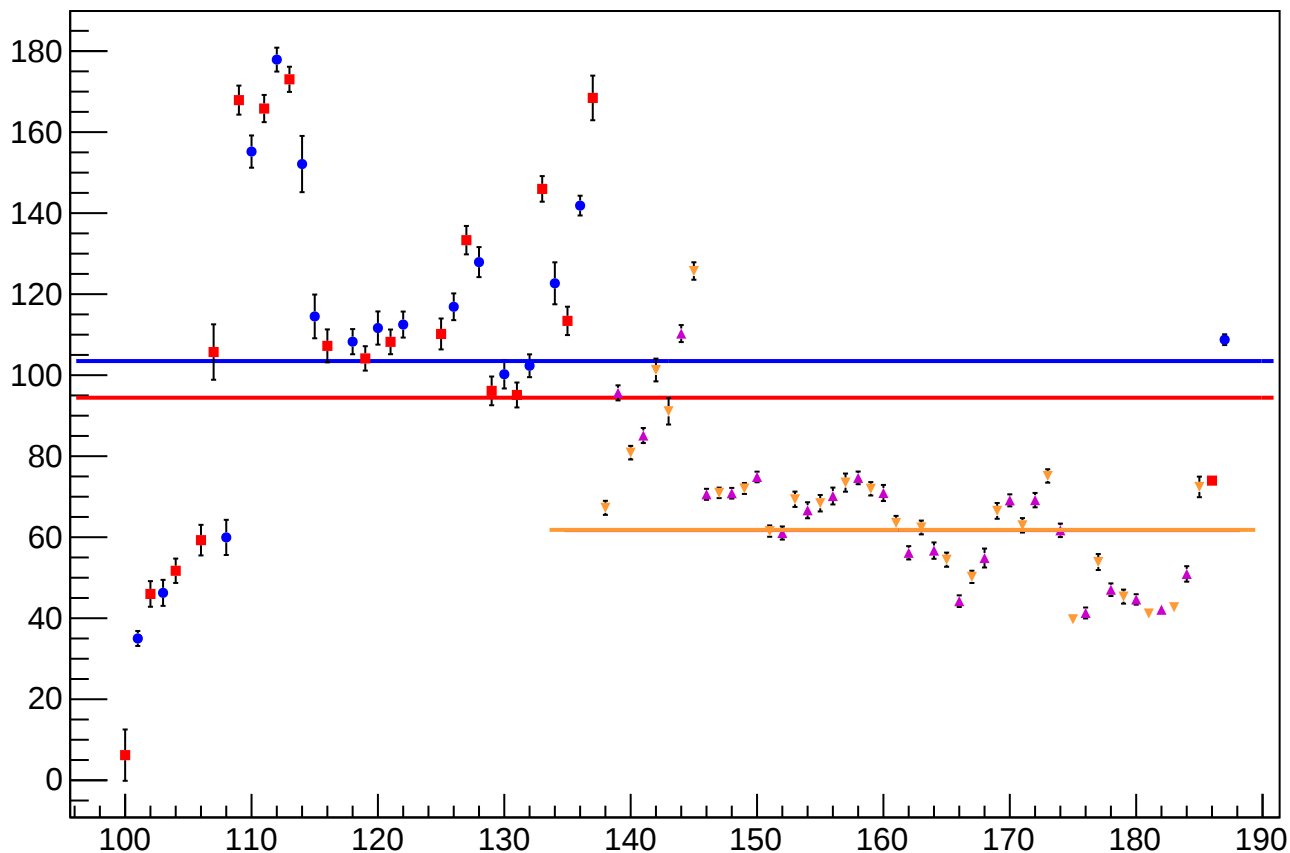
Right: 6.936 $\pm$ 0.303 χ^2 /NDF: 908.3/35

In: 2.434 $\pm$ 0.219 χ^2 /NDF: 1046.6/39

Out: 2.943 $\pm$ 0.217 χ^2 /NDF: 1119.1/43

All: 2.690 $\pm$ 0.154 χ^2 /NDF: 2168.4/83

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: 94.440 $\pm$ 0.626 χ^2 /NDF: 3362.6/18

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

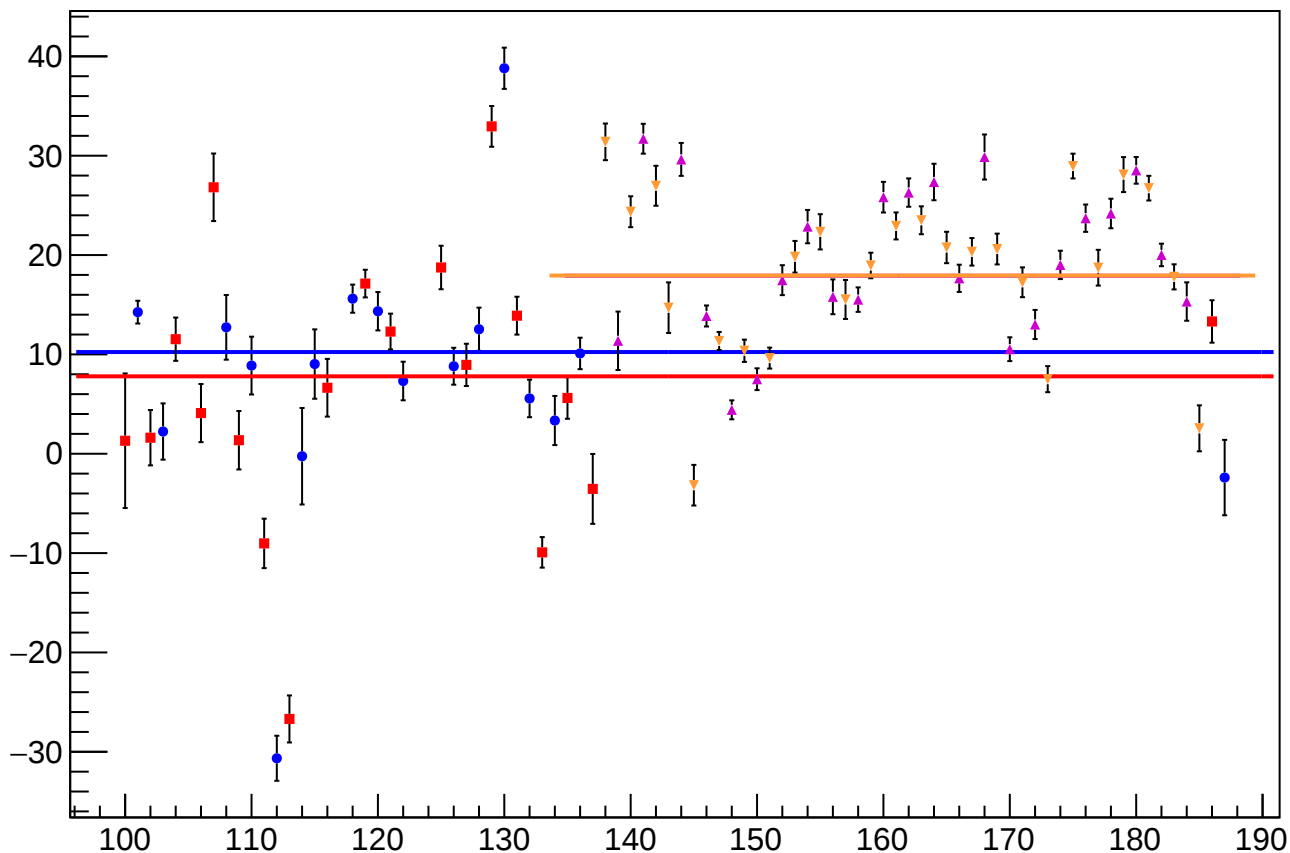
Right: 98.498 $\pm$ 0.465 χ^2 /NDF: 6451.3/35

In: 69.460 $\pm$ 0.298 χ^2 /NDF:8363.3/39

Out: 68.937 $\pm$ 0.292 χ^2 /NDF:8175.6/43

All: 69.194 $\pm$ 0.209 χ^2 /NDF: 16540.4/83

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.237 $\pm$ 0.494 χ^2 /NDF: 589.2/16

Left Out: 17.937 $\pm$ 0.289 χ^2 /NDF: 676.0/24

Right Out: 7.793 $\pm$ 0.509 χ^2 /NDF: 693.6/18

Left In: 17.916 $\pm$ 0.292 χ^2 /NDF: 726.5/22

Left: 17.927 $\pm$ 0.206 χ^2 /NDF: 1402.5/47

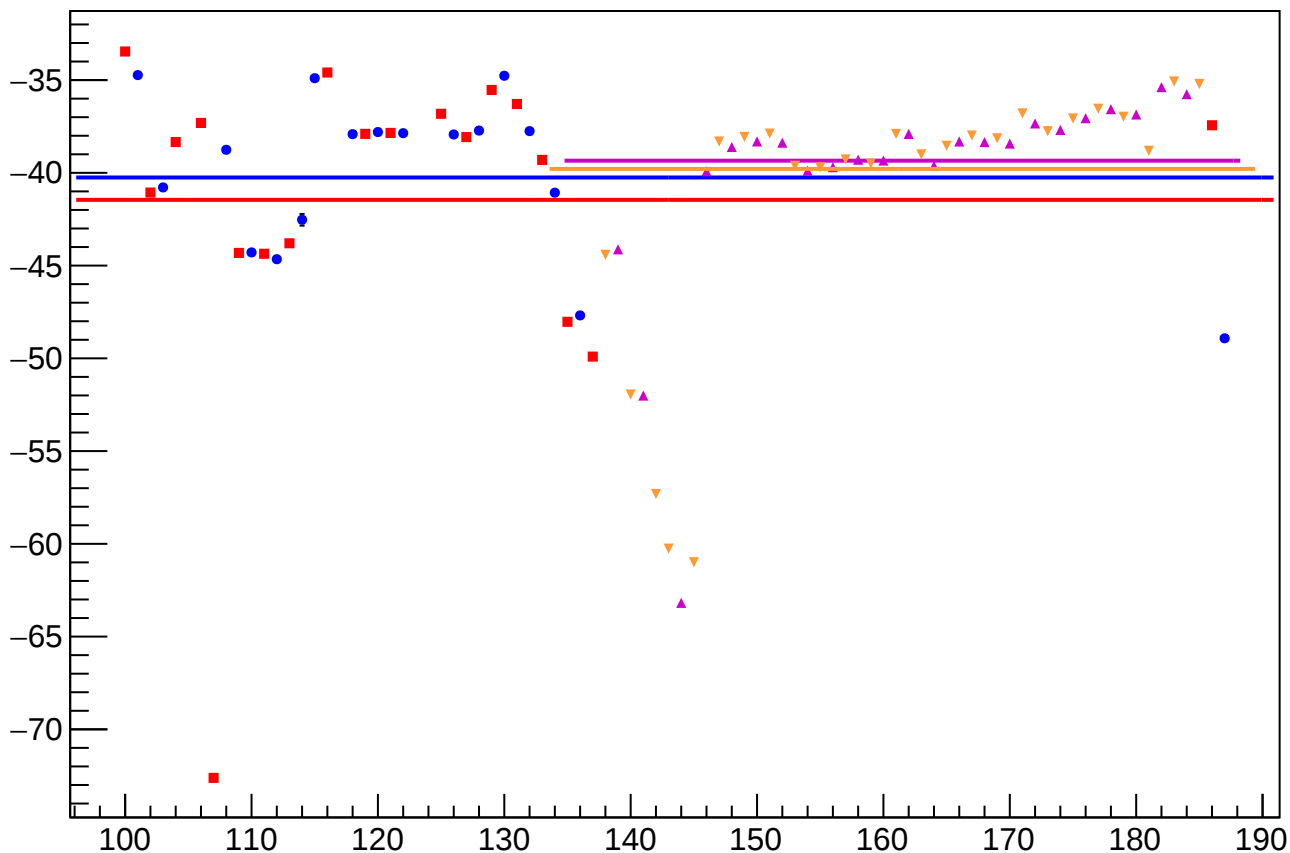
Right: 9.052 $\pm$ 0.355 χ^2 /NDF: 1294.7/35

In: 15.925 $\pm$ 0.252 χ^2 /NDF: 1494.6/39

Out: 15.465 $\pm$ 0.251 χ^2 /NDF: 1670.0/43

All: 15.694 $\pm$ 0.178 χ^2 /NDF: 3166.3/83

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: -41.456 ± 0.028 $\chi^2/\text{NDF}: 62396.3/18$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.565 ± 0.010 $\chi^2/\text{NDF}: 282639.2/47$

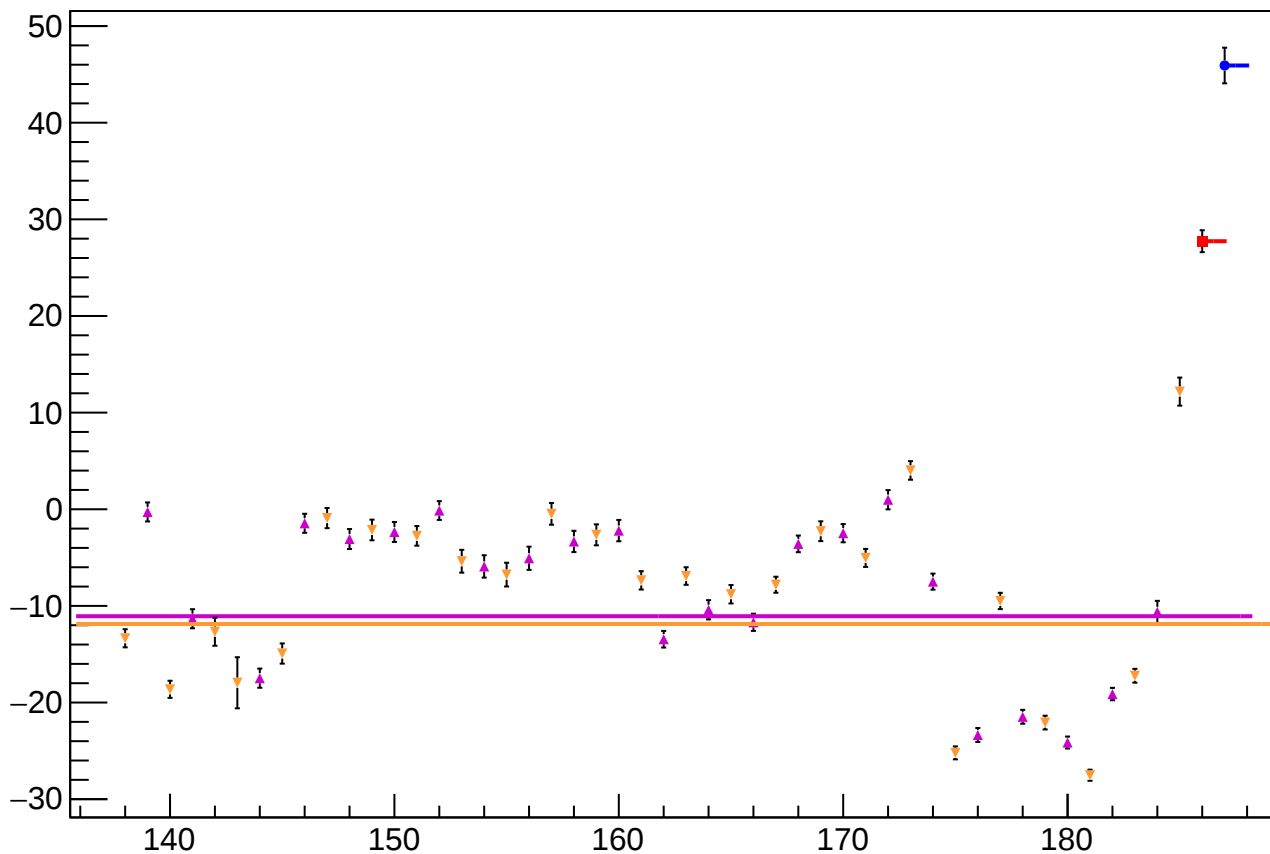
Right: -40.853 ± 0.020 $\chi^2/\text{NDF}: 90033.7/35$

In: -39.516 ± 0.012 $\chi^2/\text{NDF}: 144177.8/39$

Out: -40.106 ± 0.012 $\chi^2/\text{NDF}: 230736.3/43$

All: -39.810 ± 0.009 $\chi^2/\text{NDF}: 376071.2/83$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 45.919 $\pm$ 1.845 χ^2 /NDF: 0.0/0

Left Out: -11.873 $\pm$ 0.186 χ^2 /NDF: 2745.2/24

Right Out: 27.736 $\pm$ 1.135 χ^2 /NDF: 0.0/0

Left In: -11.067 $\pm$ 0.188 χ^2 /NDF: 2104.8/22

Left: -11.473 $\pm$ 0.132 χ^2 /NDF: 4859.2/47

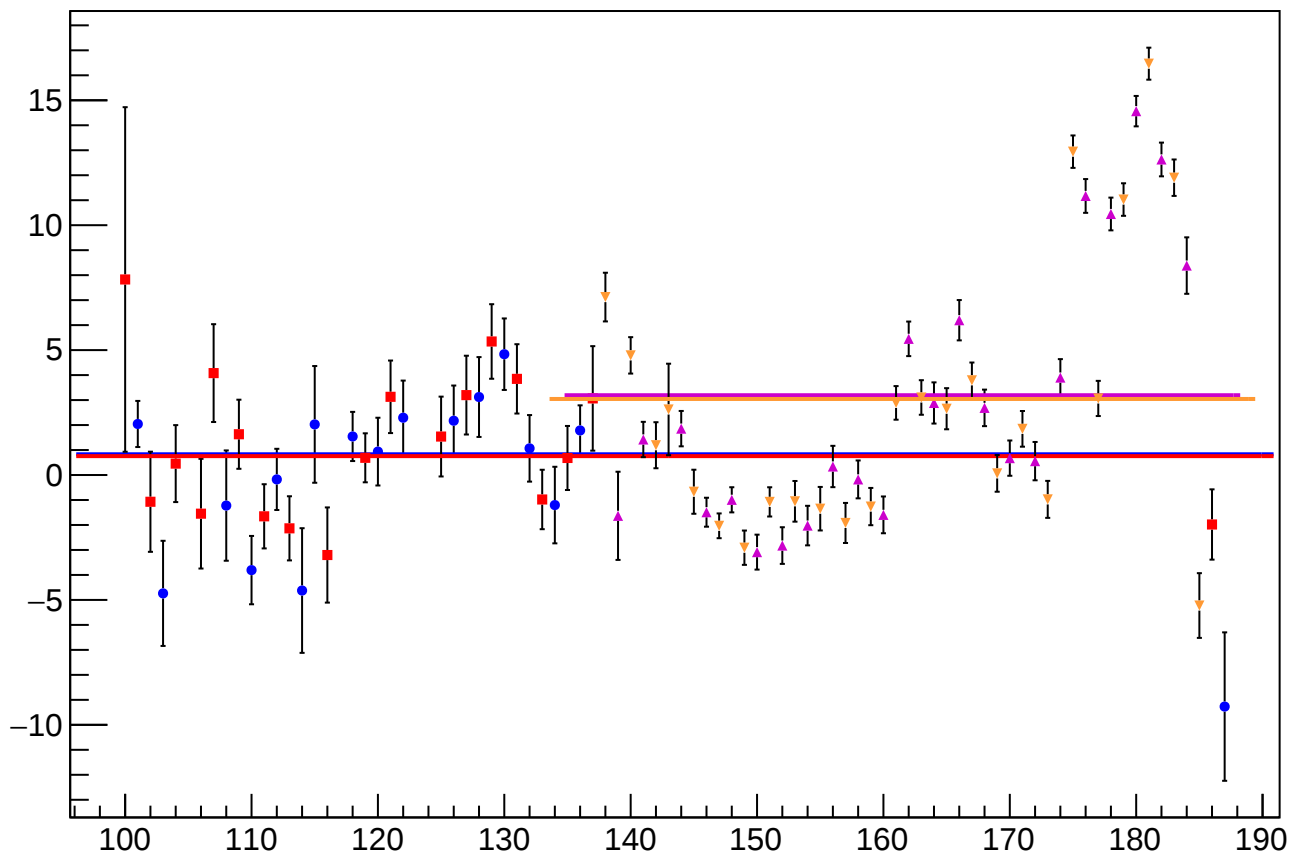
Right: 32.727 $\pm$ 0.967 χ^2 /NDF: 70.5/1

In: -10.481 $\pm$ 0.187 χ^2 /NDF: 3049.0/23

Out: -10.833 $\pm$ 0.184 χ^2 /NDF: 3931.7/25

All: -10.660 $\pm$ 0.131 χ^2 /NDF: 6982.5/49

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: 0.756 ± 0.343 $\chi^2/\text{NDF}: 46.1/18$

Left In: 3.194 ± 0.150 $\chi^2/\text{NDF}: 1295.0/22$

Left: 3.118 ± 0.105 $\chi^2/\text{NDF}: 2752.7/47$

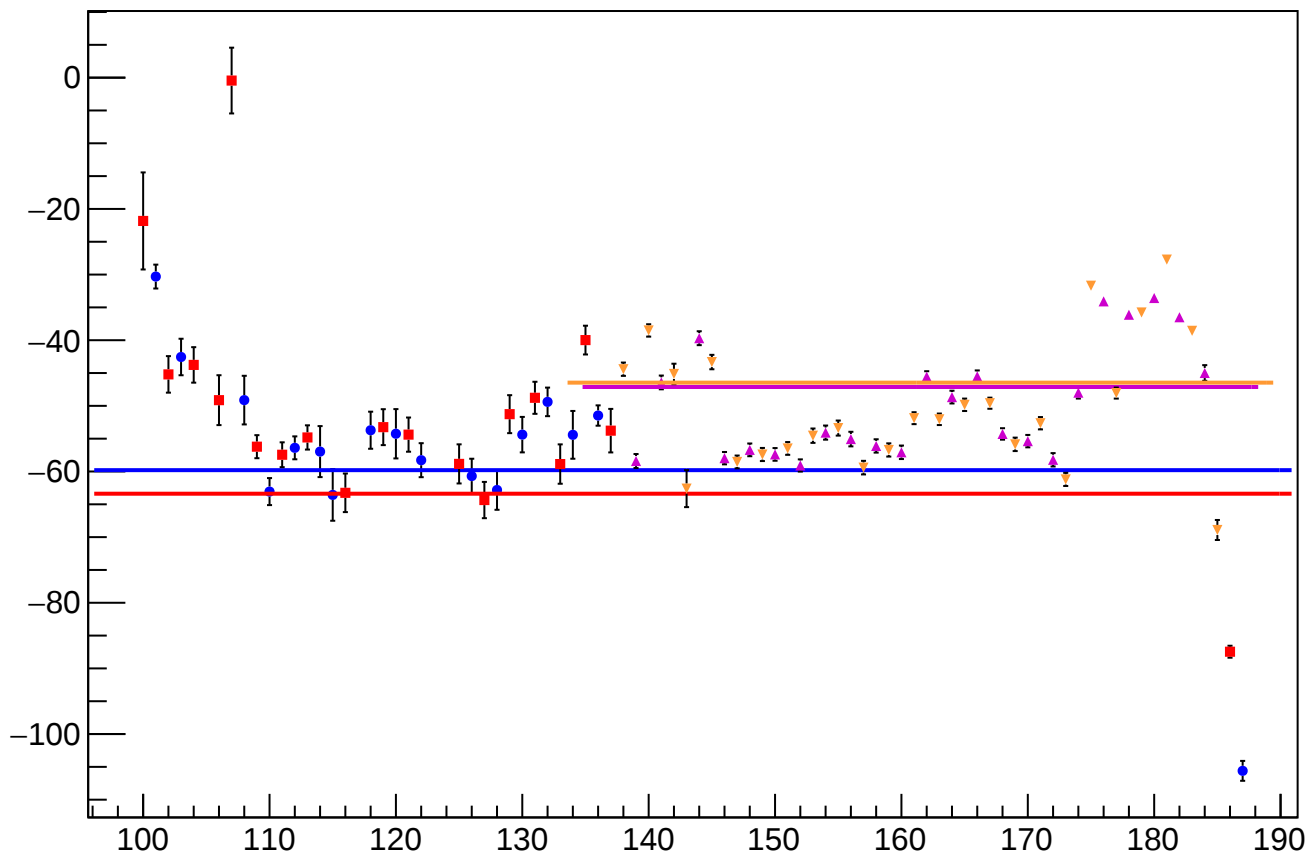
Right: 0.793 ± 0.241 $\chi^2/\text{NDF}: 99.5/35$

In: 2.809 ± 0.137 $\chi^2/\text{NDF}: 1388.8/39$

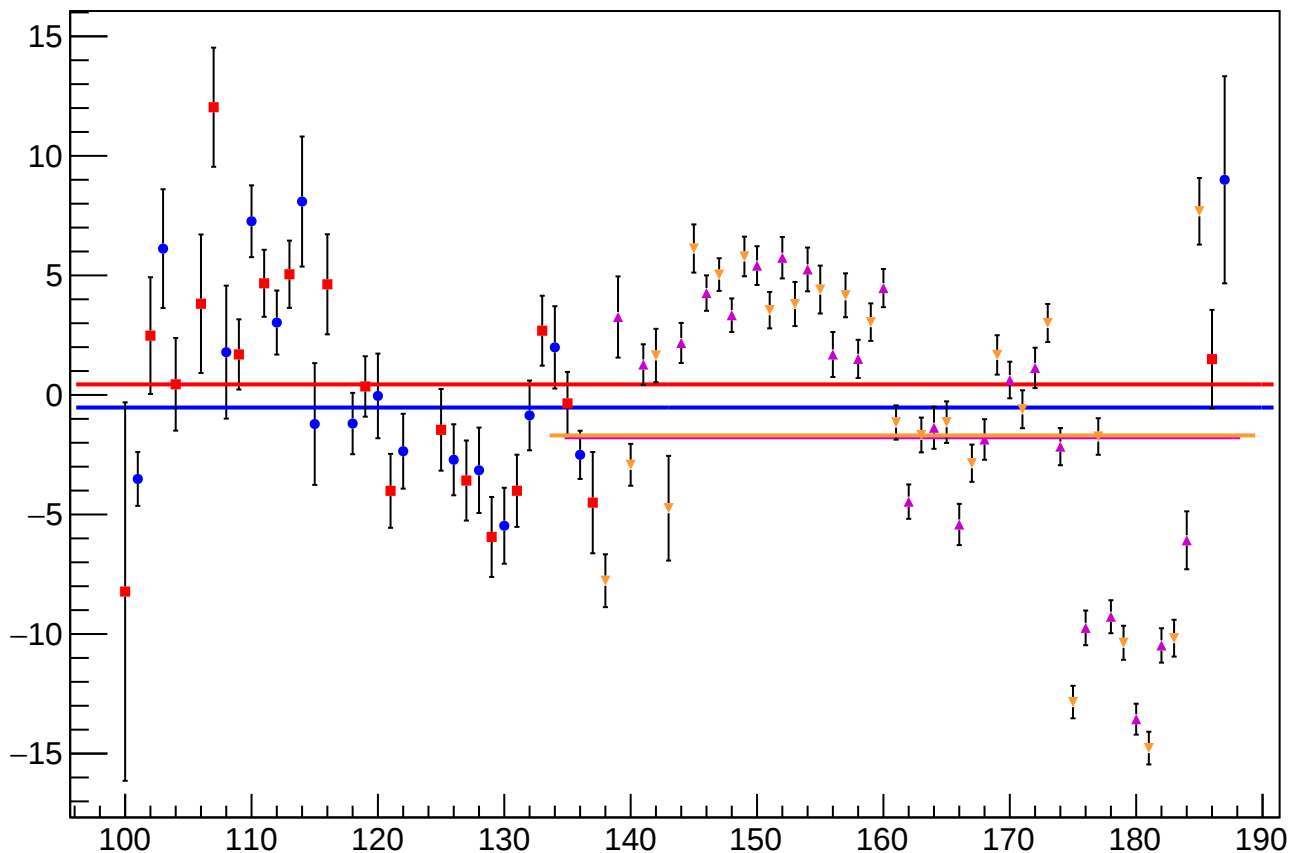
Out: 2.688 ± 0.135 $\chi^2/\text{NDF}: 1540.9/43$

All: 2.747 ± 0.096 $\chi^2/\text{NDF}: 2930.1/83$

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.527 ± 0.386 χ^2/NDF : 85.6/16

Left Out: -1.693 ± 0.167 χ^2/NDF : 1485.7/24

Right Out: 0.441 ± 0.393 χ^2/NDF : 96.4/18

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.731 ± 0.119 χ^2/NDF : 2737.1/47

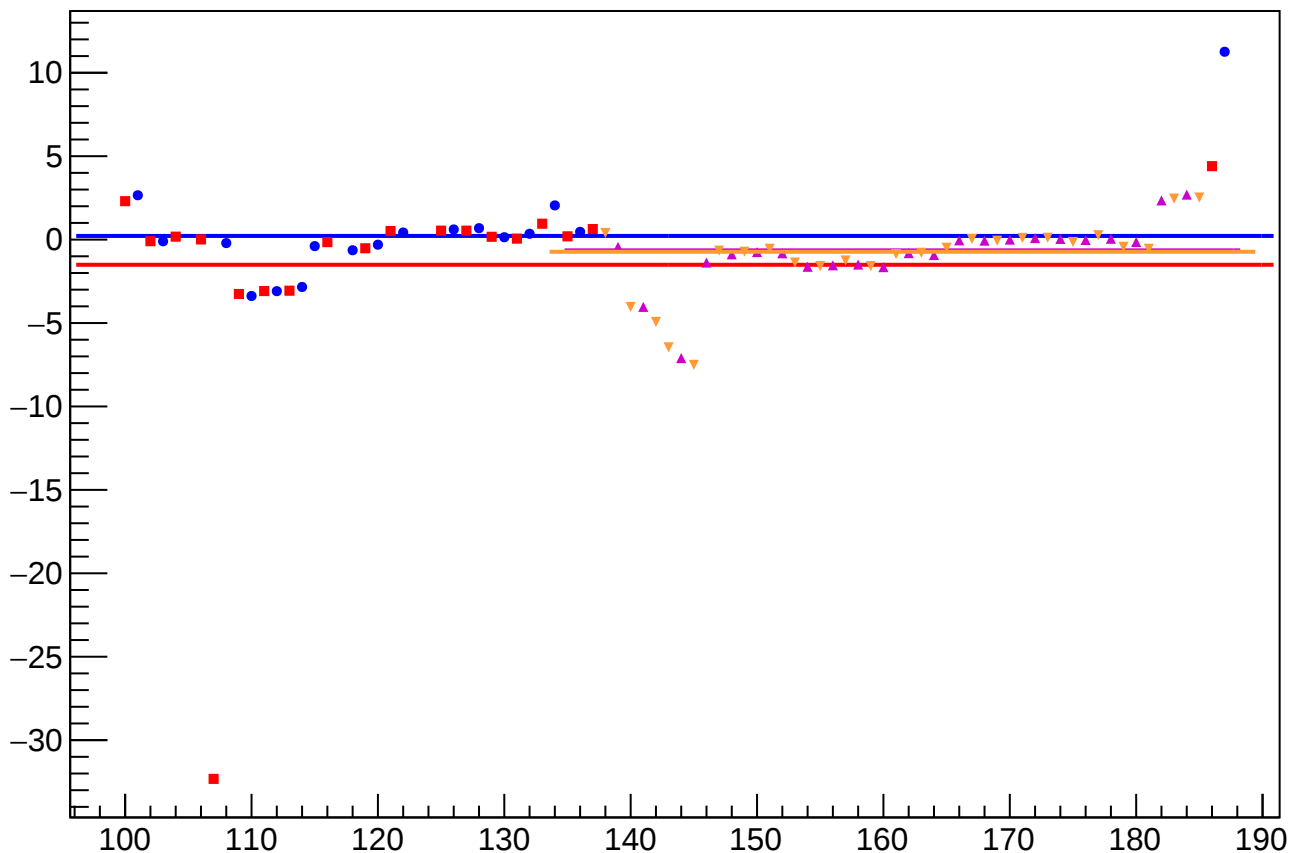
Right: -0.051 ± 0.275 χ^2/NDF : 185.1/35

In: -1.571 ± 0.155 χ^2/NDF : 1345.5/39

Out: -1.368 ± 0.153 χ^2/NDF : 1607.2/43

All: -1.468 ± 0.109 χ^2/NDF : 2953.6/83

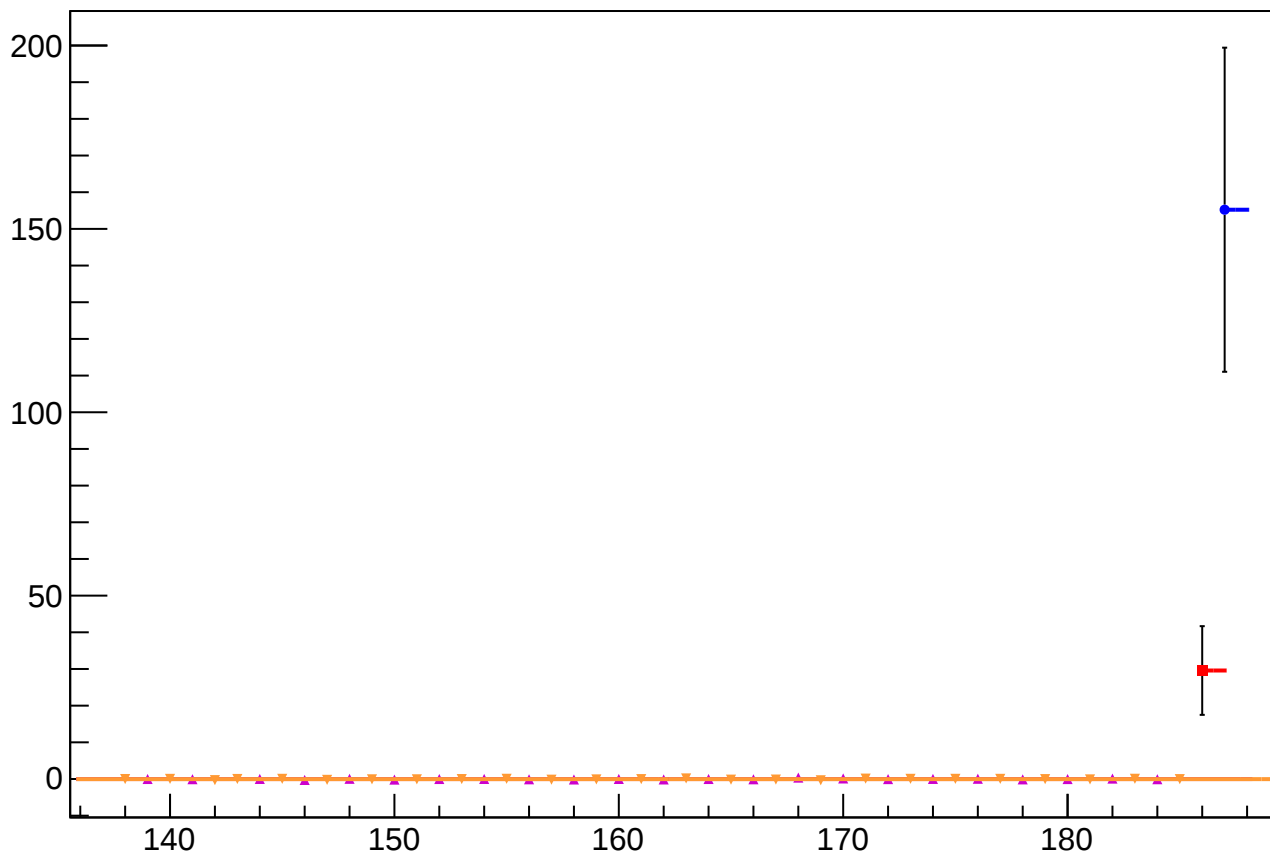
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



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: -1.508 ± 0.022 $\chi^2/\text{NDF}: 79529.3/18$
 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: -0.639 ± 0.015 $\chi^2/\text{NDF}: 90025.3/35$
 In: -0.546 ± 0.007 $\chi^2/\text{NDF}: 52884.9/39$
 Out: -0.814 ± 0.007 $\chi^2/\text{NDF}: 137091.1/43$
 All: -0.681 ± 0.005 $\chi^2/\text{NDF}: 190667.1/83$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 155.225+/-44.188 χ^2/NDF : 0.0/0

Left Out: -0.036+/-0.018 χ^2/NDF : 35.6/24

Right Out: 29.583+/-12.092 χ^2/NDF : 0.0/0

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.023+/-0.013 χ^2/NDF : 71.8/47

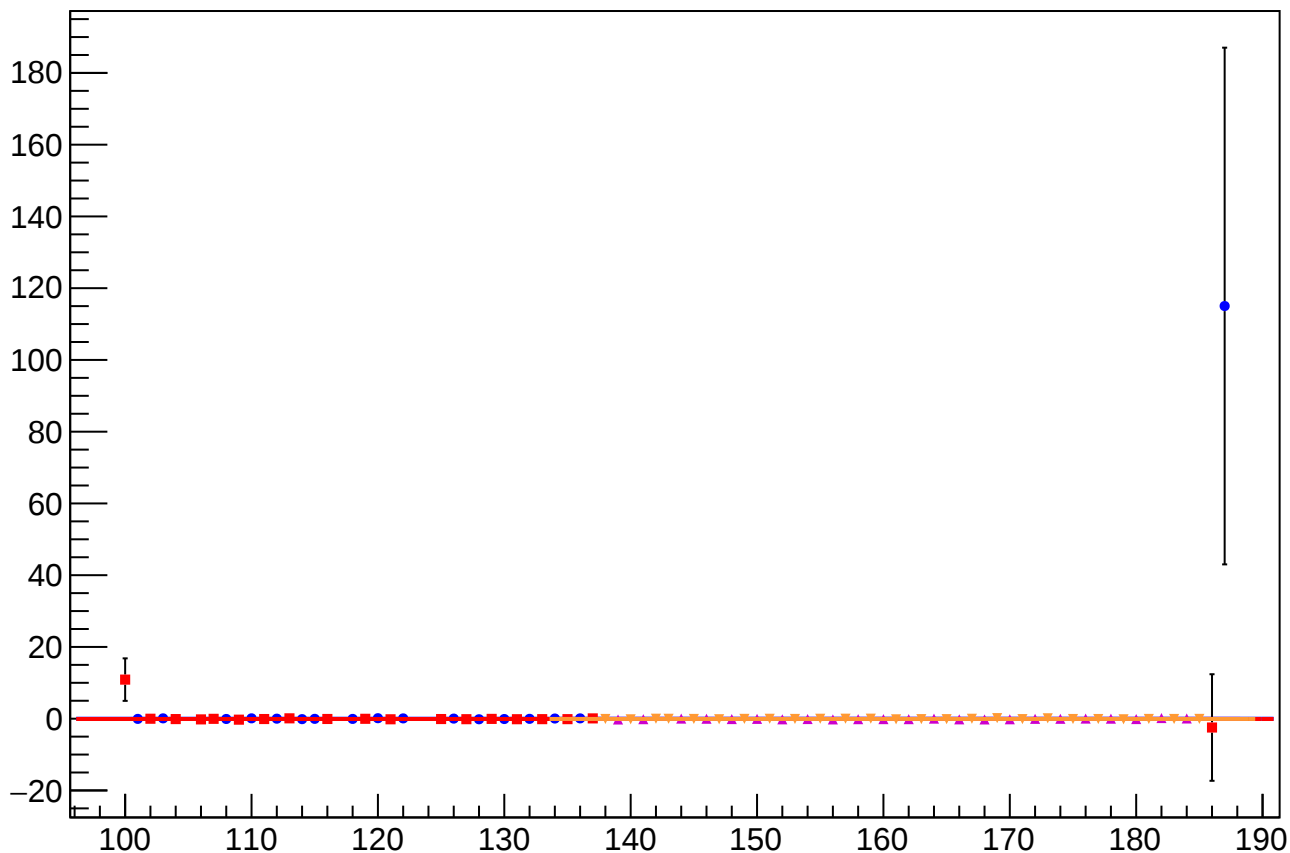
Right: 38.336+/-11.663 χ^2/NDF : 7.5/1

In: -0.010+/-0.018 χ^2/NDF : 47.5/23

Out: -0.036+/-0.018 χ^2/NDF : 41.6/25

All: -0.023+/-0.013 χ^2/NDF : 90.1/49

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 $\pm$ 0.023 χ^2 /NDF: 14.6/16

Left Out: -0.071 $\pm$ 0.014 χ^2 /NDF: 28.3/24

Right Out: -0.088 $\pm$ 0.025 χ^2 /NDF: 13.0/18

Left In: -0.064 $\pm$ 0.014 χ^2 /NDF: 41.1/22

Left: -0.067 $\pm$ 0.010 χ^2 /NDF: 69.5/47

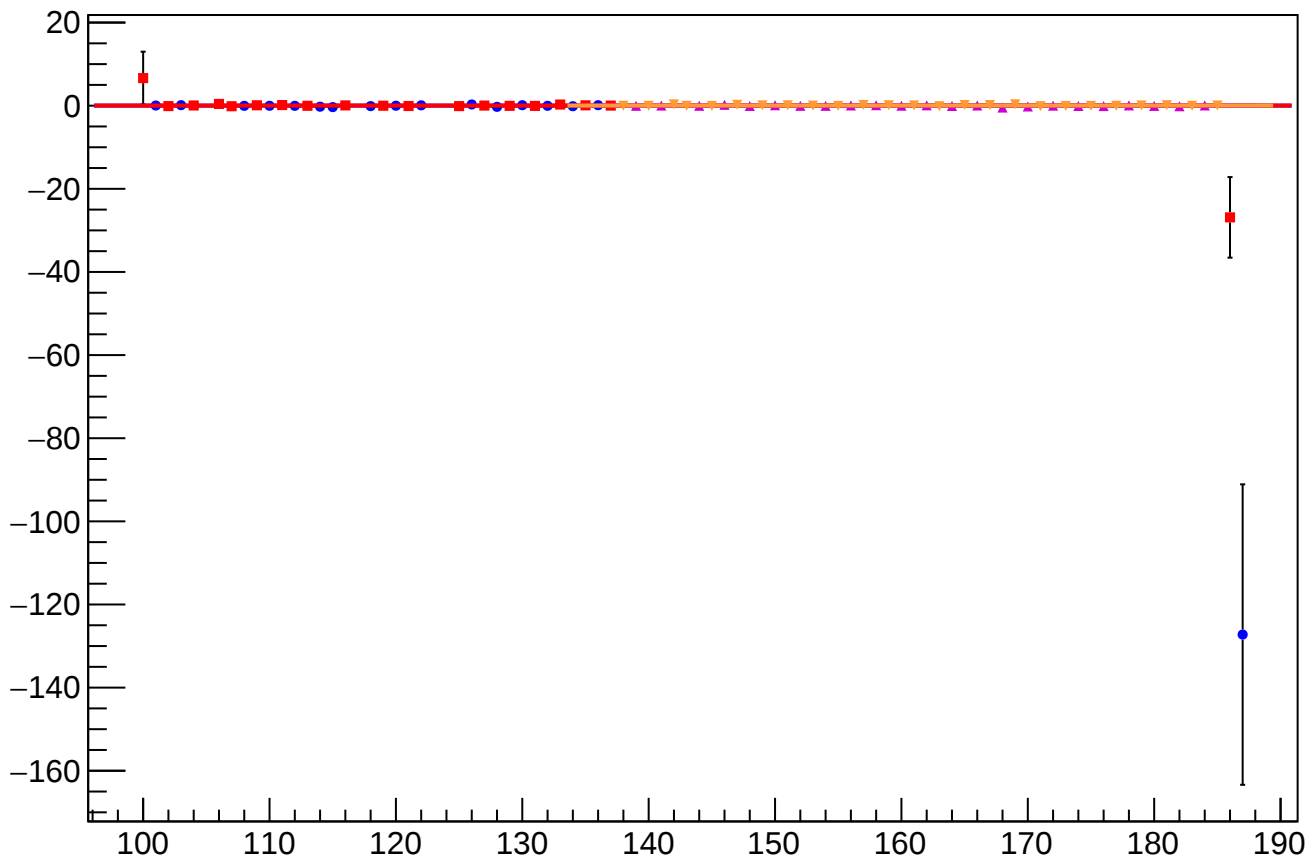
Right: -0.049 $\pm$ 0.017 χ^2 /NDF: 32.3/35

In: -0.050 $\pm$ 0.012 χ^2 /NDF: 59.0/39

Out: -0.075 $\pm$ 0.012 χ^2 /NDF: 41.6/43

All: -0.063 $\pm$ 0.009 χ^2 /NDF: 102.7/83

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: 16.8/18

Left In: -0.009±/-0.018 χ^2 /NDF:36.8/22

Left: 0.013±/-0.013 χ^2 /NDF: 72.2/47

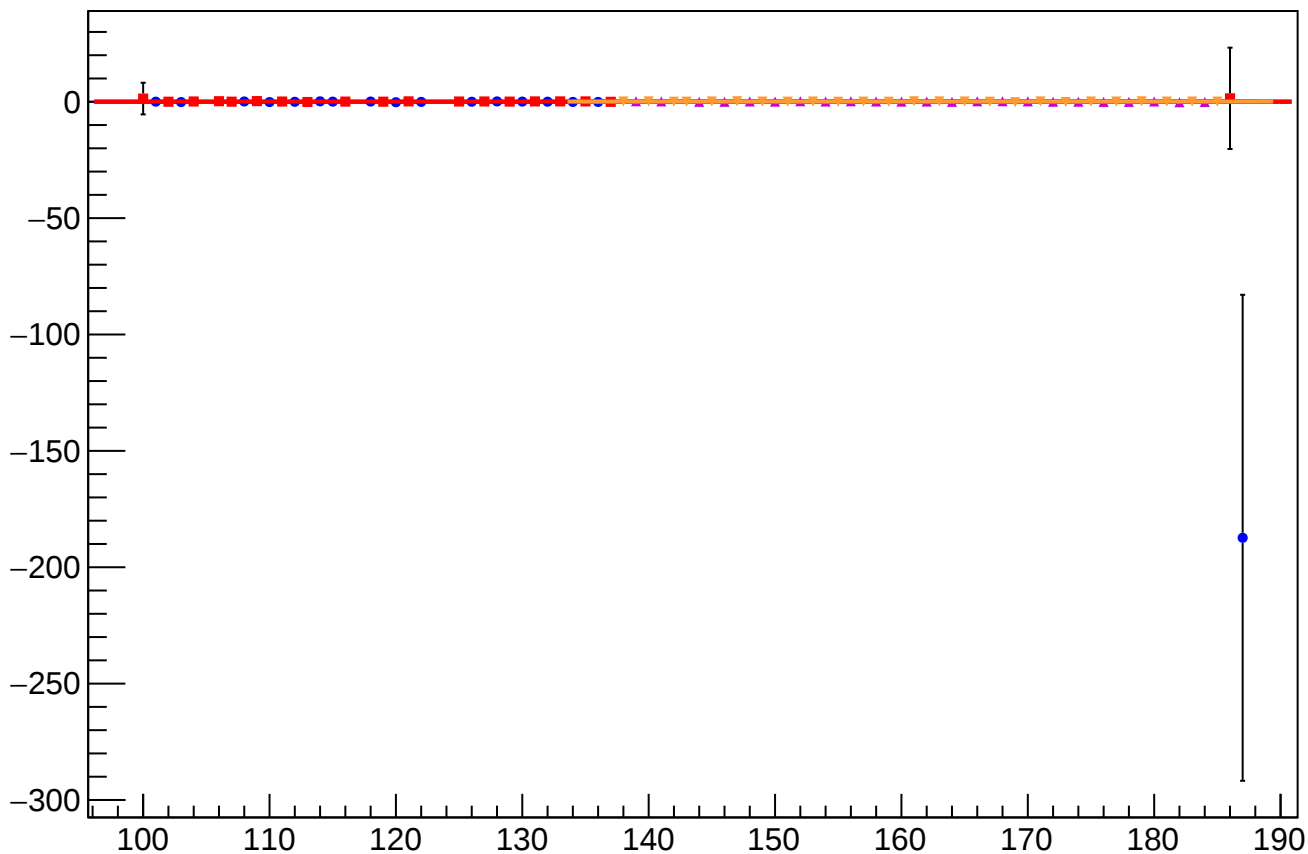
Right: 0.023±/-0.031 χ^2 /NDF: 38.3/35

In: -0.005±/-0.017 χ^2 /NDF:58.6/39

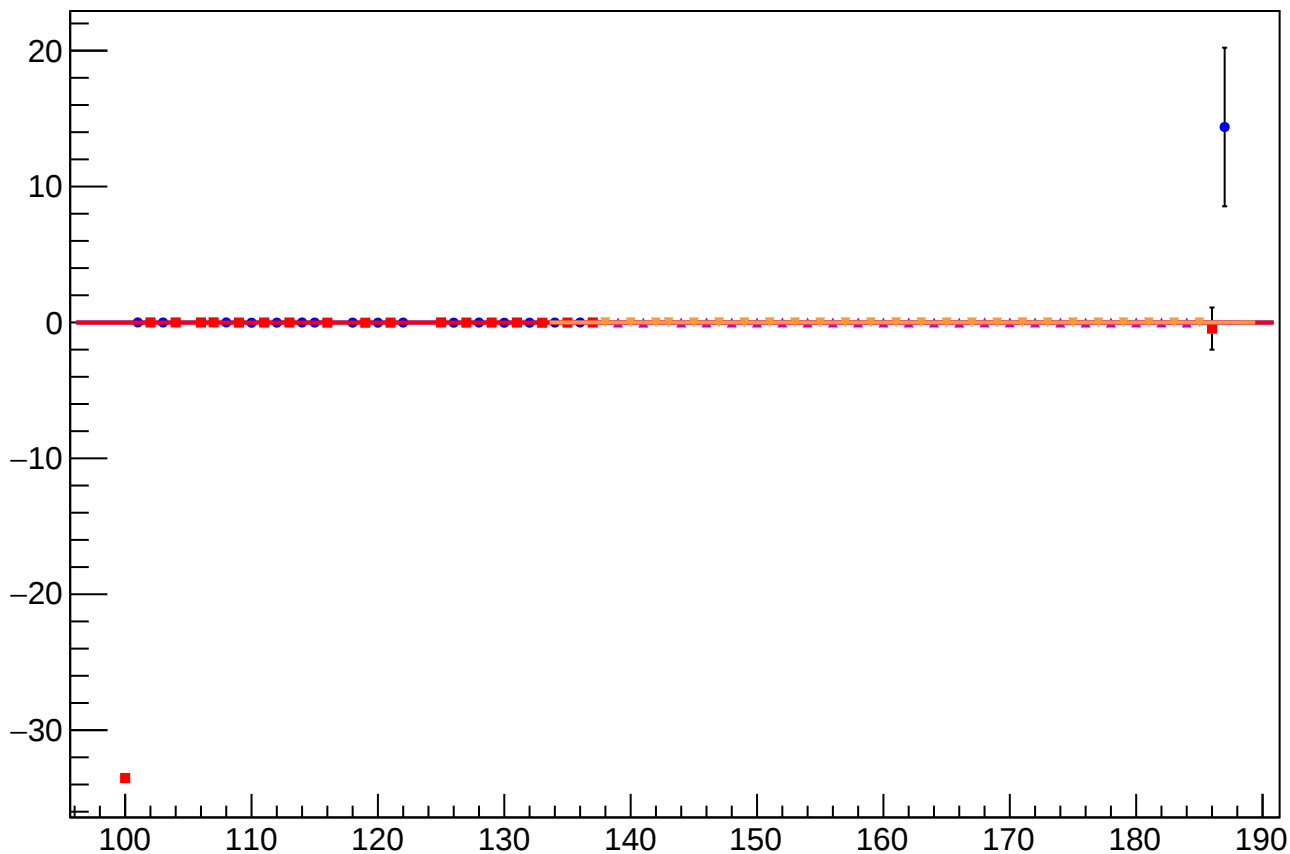
Out: 0.033±/-0.016 χ^2 /NDF:49.3/43

All: 0.014±/-0.012 χ^2 /NDF: 110.6/83

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 $\pm$ 0.001 χ^2 /NDF: 27.6/16

Left Out: 0.001 $\pm$ 0.001 χ^2 /NDF:26.1/24

Right Out: -0.006 $\pm$ 0.001 χ^2 /NDF: 26509.0/18

Left In: 0.000 $\pm$ 0.001 χ^2 /NDF:22.3/22

Left: 0.000 $\pm$ 0.001 χ^2 /NDF: 48.6/47

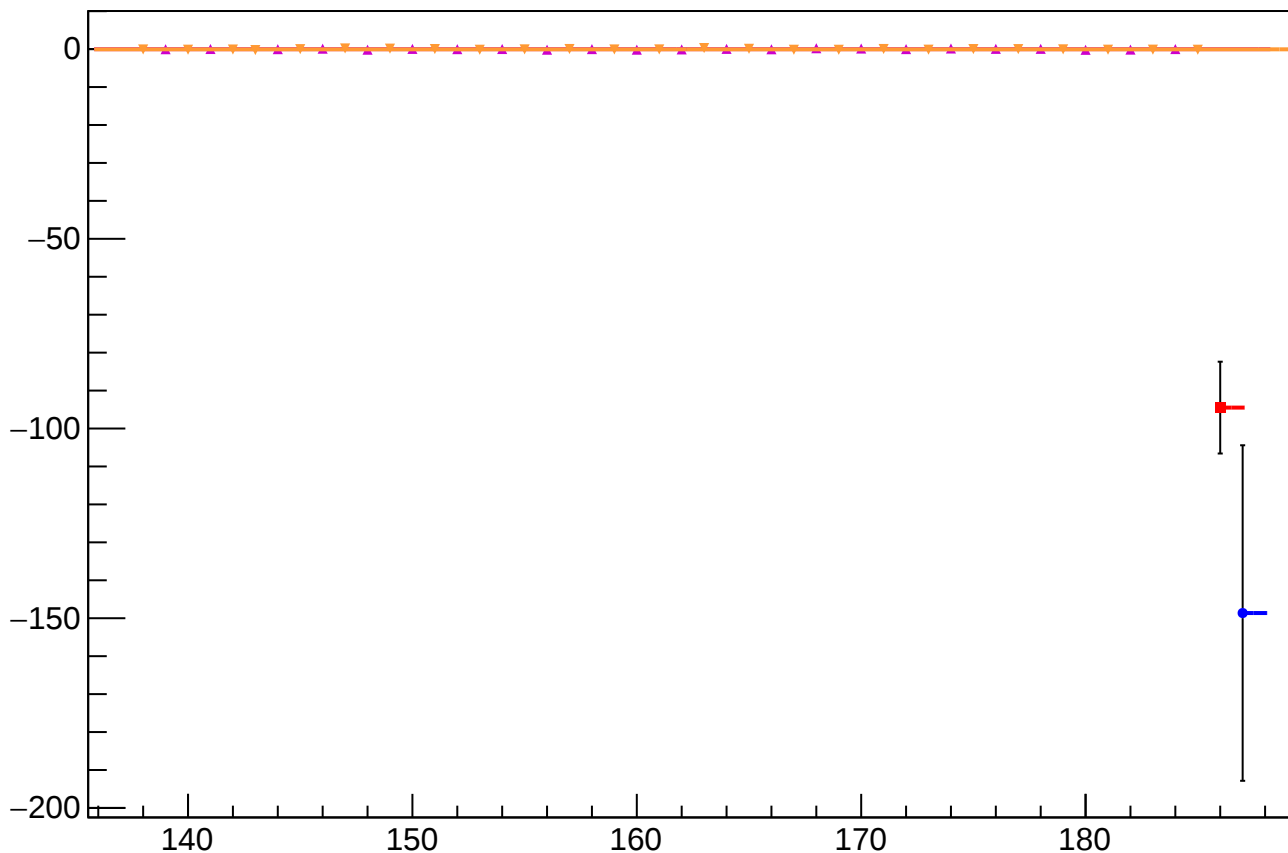
Right: -0.006 $\pm$ 0.001 χ^2 /NDF: 26536.7/35

In: -0.001 $\pm$ 0.001 χ^2 /NDF:61.6/39

Out: -0.001 $\pm$ 0.001 χ^2 /NDF:26551.3/43

All: -0.001 $\pm$ 0.000 χ^2 /NDF: 26613.1/83

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: -94.487+/-12.098 χ^2/NDF : 0.0/0

Left In: -0.009+/-0.018 χ^2/NDF :35.1/22

Left: -0.034+/-0.013 χ^2/NDF : 80.7/47

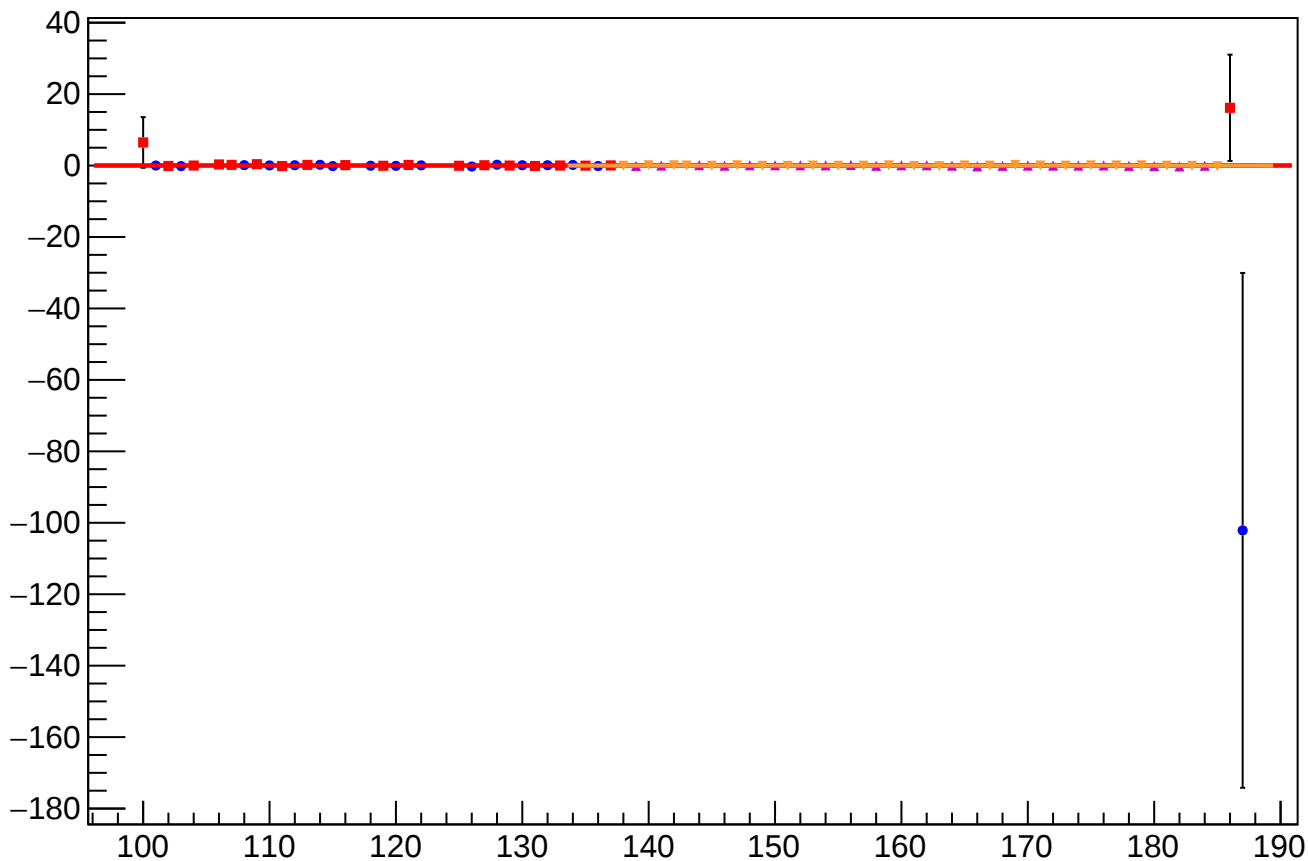
Right: -98.258+/-11.669 χ^2/NDF : 1.4/1

In: -0.009+/-0.018 χ^2/NDF :46.4/23

Out: -0.059+/-0.018 χ^2/NDF :102.6/25

All: -0.035+/-0.013 χ^2/NDF : 153.0/49

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.023 χ^2/NDF : 27.2/16

Left Out: -0.010 ± 0.014 $\chi^2/\text{NDF}: 29.7/24$

Right Out: 0.037 ± 0.025 χ^2/NDF : 29.9/18

Left In: 0.005+/-0.014 χ^2/NDF :49.6/22

Left: -0.003 ± 0.010 $\chi^2/\text{NDF}: 79.8/47$

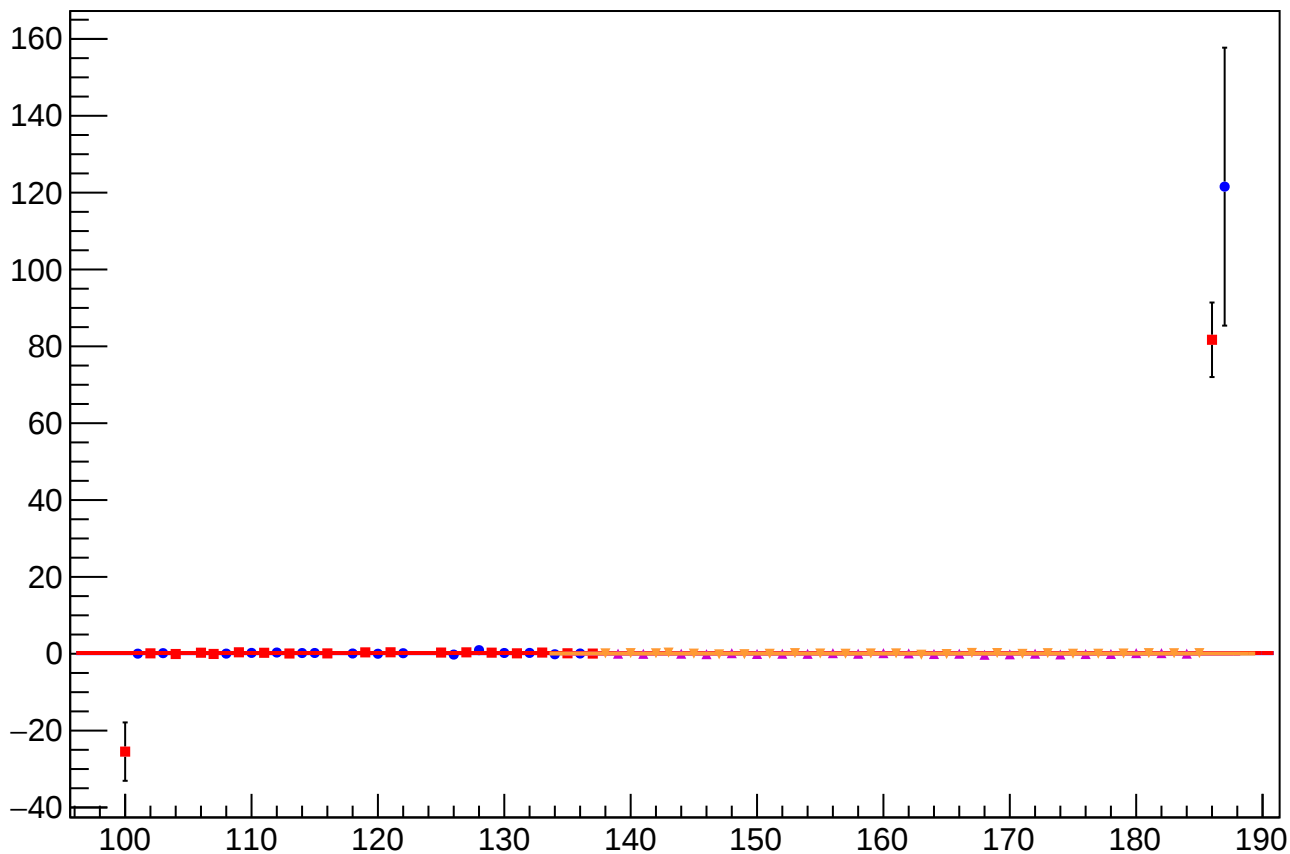
Right: 0.021 ± 0.017 $\chi^2/\text{NDF}: 57.8/35$

ln: 0.006+/-0.012 χ^2 /NDF:76.7/39

Out: 0.001+/-0.012 χ^2/NDF :62.2/43

All: 0.003 ± 0.009 χ^2/NDF : 139.0/83

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: 92.6/18

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

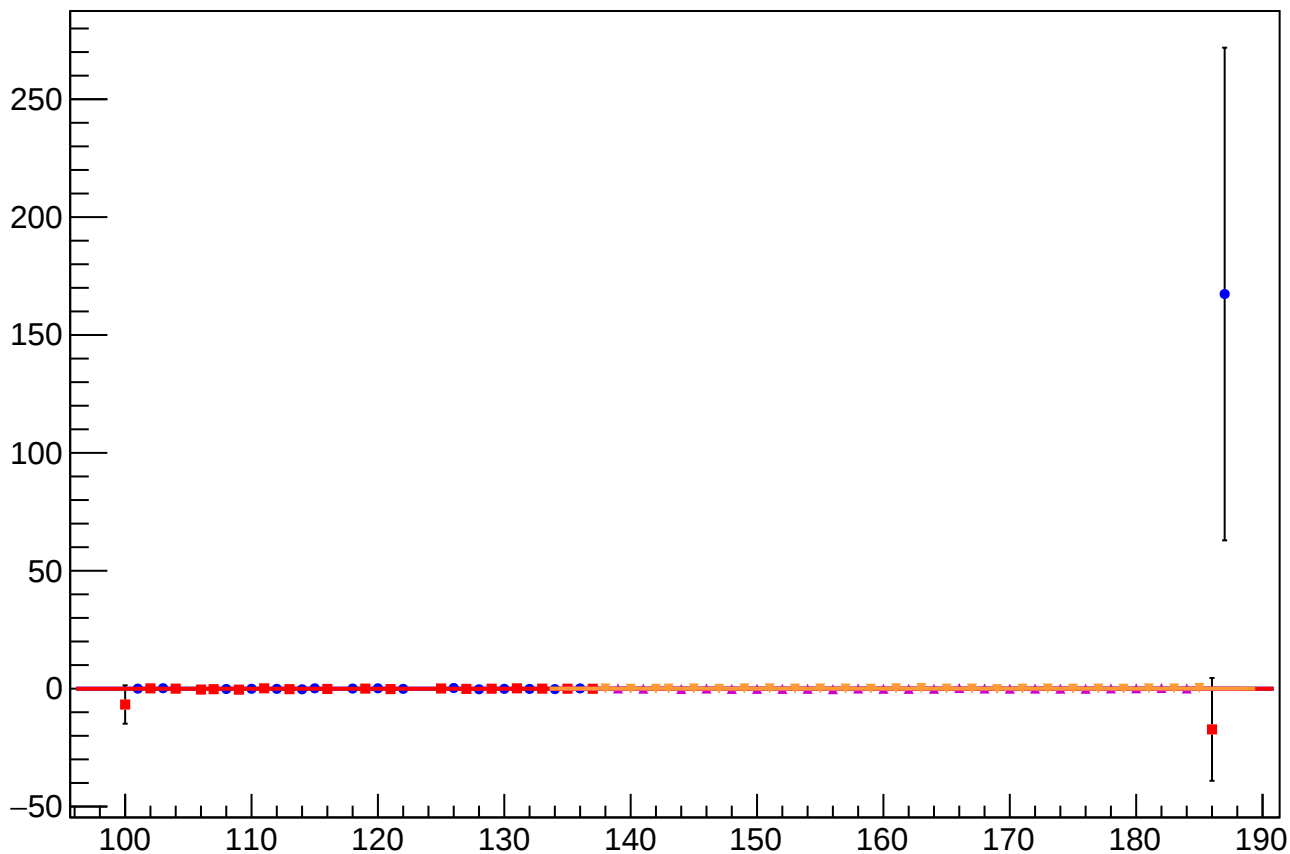
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 134.0/35

In: 0.040 $\pm$ 0.017 χ^2 /NDF:85.4/39

Out: 0.074 $\pm$ 0.016 χ^2 /NDF:142.1/43

All: 0.057 $\pm$ 0.012 χ^2 /NDF: 229.6/83

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 $\chi^2/\text{NDF}: 27.2/16$

Left Out: 0.021 ± 0.016 $\chi^2/\text{NDF}: 33.4/24$

Right Out: -0.046 ± 0.029 $\chi^2/\text{NDF}: 26.9/18$

Left In: 0.006 ± 0.016 $\chi^2/\text{NDF}: 50.1/22$

Left: 0.014 ± 0.011 $\chi^2/\text{NDF}: 84.0/47$

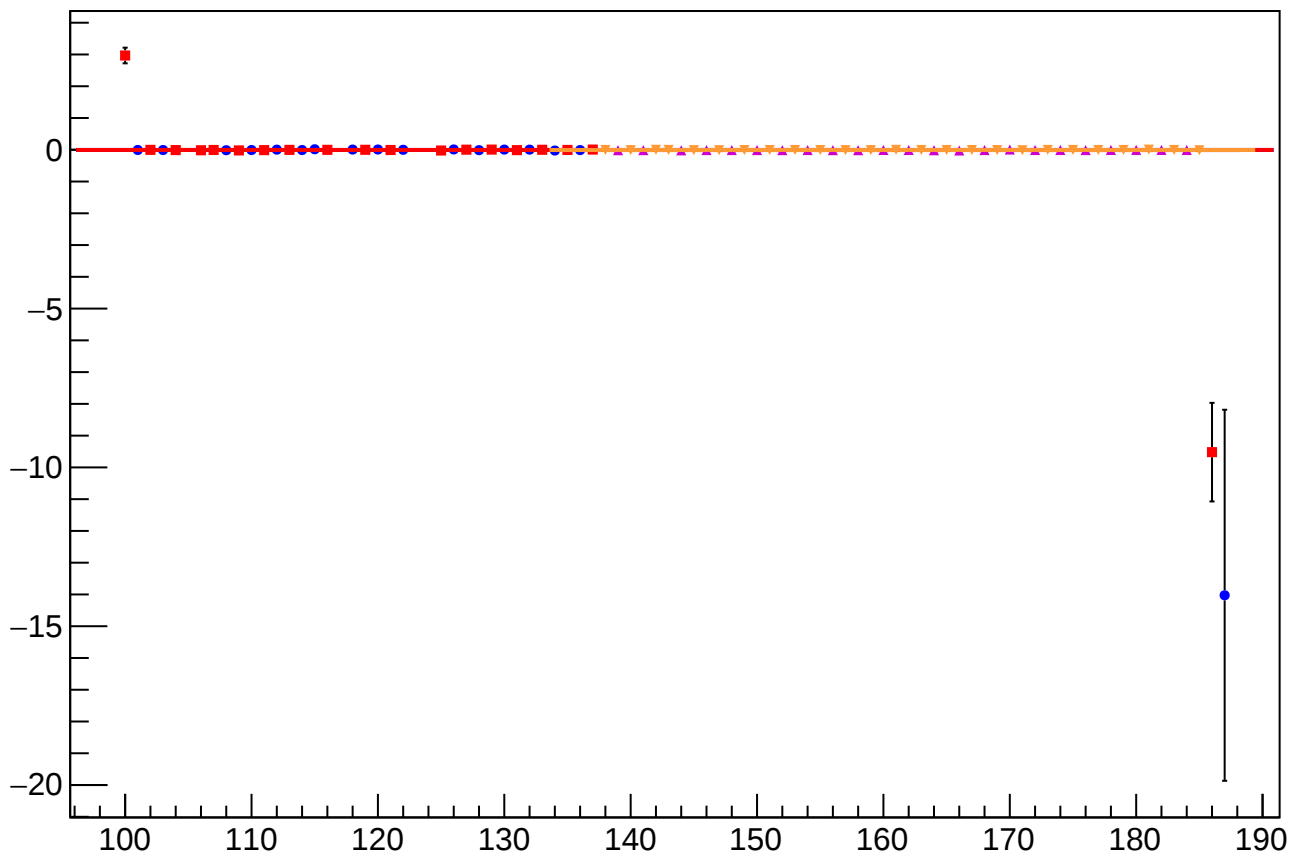
Right: -0.027 ± 0.020 $\chi^2/\text{NDF}: 54.9/35$

In: 0.002 ± 0.014 $\chi^2/\text{NDF}: 77.6/39$

Out: 0.005 ± 0.014 $\chi^2/\text{NDF}: 64.5/43$

All: 0.003 ± 0.010 $\chi^2/\text{NDF}: 142.1/83$

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 $\pm$ 0.001 χ^2 /NDF: 33.2/16

Left Out: -0.008 $\pm$ 0.001 χ^2 /NDF:32.7/24

Right Out: -0.006 $\pm$ 0.001 χ^2 /NDF: 202.8/18

Left In: -0.009 $\pm$ 0.001 χ^2 /NDF:37.2/22

Left: -0.008 $\pm$ 0.001 χ^2 /NDF: 70.3/47

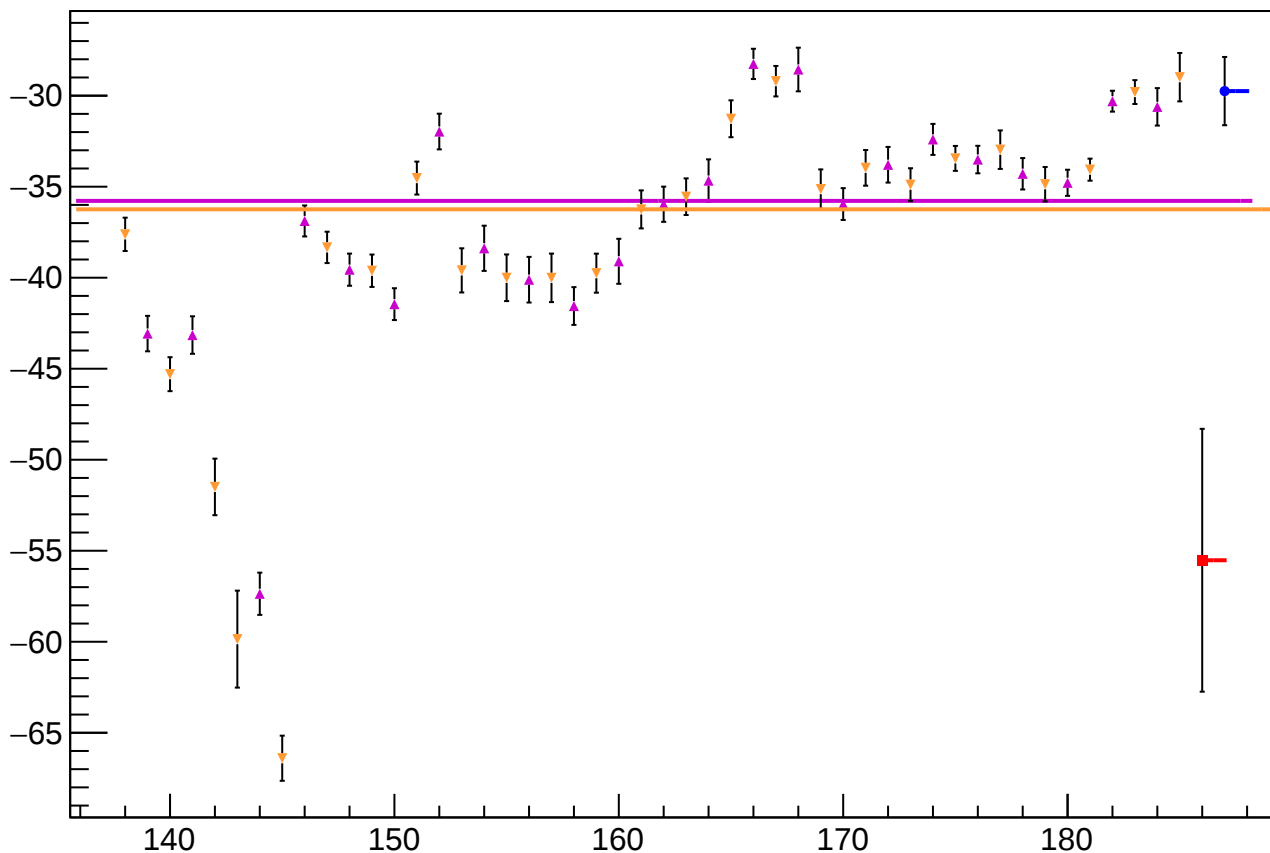
Right: -0.006 $\pm$ 0.001 χ^2 /NDF: 236.1/35

In: -0.008 $\pm$ 0.001 χ^2 /NDF:73.0/39

Out: -0.008 $\pm$ 0.001 χ^2 /NDF:237.5/43

All: -0.008 $\pm$ 0.000 χ^2 /NDF: 310.7/83

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: -55.523+/-7.220 χ^2/NDF : 0.0/0

Left In: -35.779+/-0.191 χ^2/NDF :854.1/22

Left: -36.011+/-0.135 χ^2/NDF : 2050.9/47

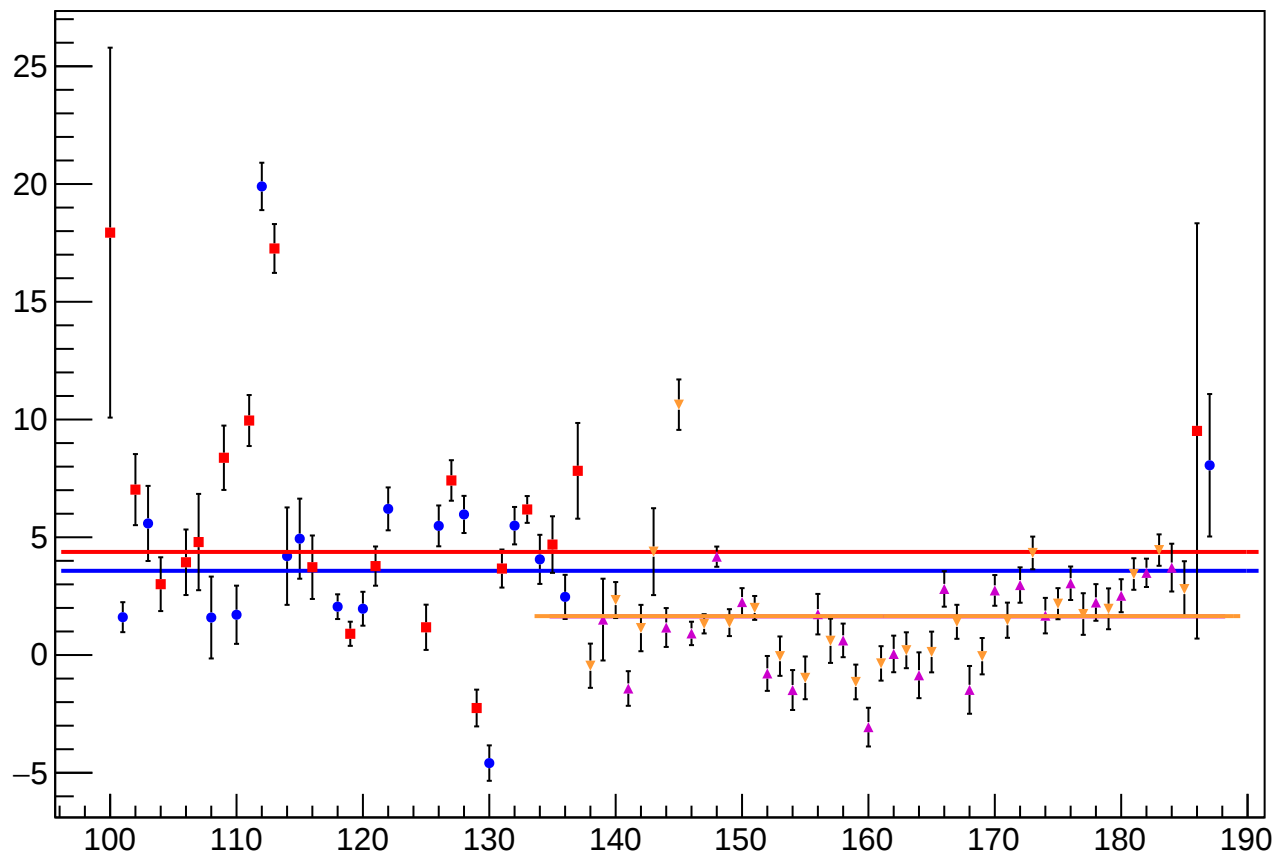
Right: -31.376+/-1.815 χ^2/NDF : 11.9/1

In: -35.717+/-0.190 χ^2/NDF :864.3/23

Out: -36.257+/-0.191 χ^2/NDF :1201.0/25

All: -35.985+/-0.135 χ^2/NDF : 2069.4/49

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.576 ± 0.220 χ^2/NDF : 442.1/16

Left Out: 1.652 ± 0.147 χ^2/NDF : 168.8/24

Right Out: 4.378 ± 0.225 χ^2/NDF : 353.5/18

Left In: 1.641 ± 0.150 χ^2/NDF : 163.2/22

Left: 1.647 ± 0.105 χ^2/NDF : 332.0/47

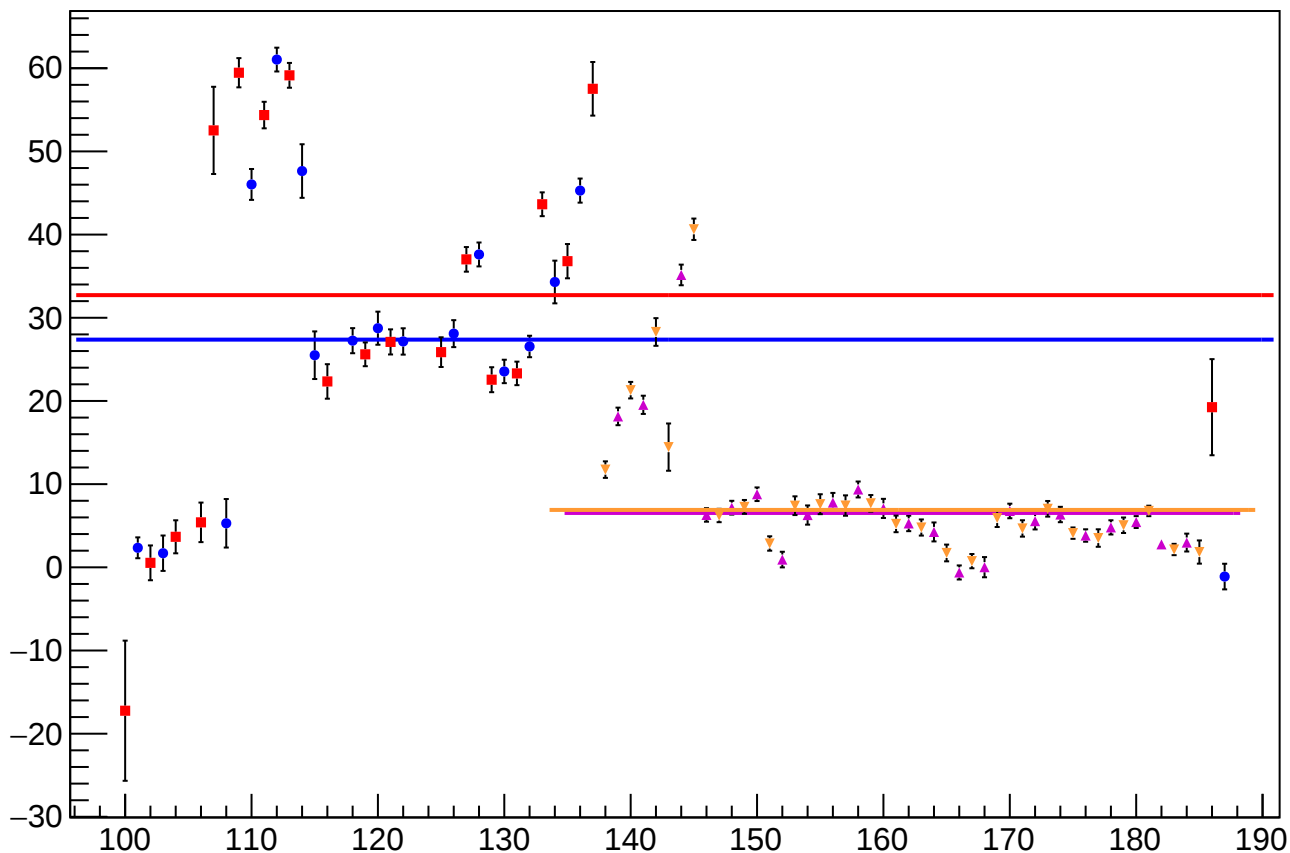
Right: 3.968 ± 0.157 χ^2/NDF : 802.1/35

In: 2.252 ± 0.124 χ^2/NDF : 658.2/39

Out: 2.469 ± 0.123 χ^2/NDF : 624.9/43

All: 2.361 ± 0.087 χ^2/NDF : 1284.6/83

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.373+/-0.406 χ^2 /NDF: 1856.9/16

Left Out: 6.900+/-0.191 χ^2 /NDF:1302.8/24

Right Out: 32.721+/-0.422 χ^2 /NDF: 1665.6/18

Left In: 6.537+/-0.190 χ^2 /NDF:1025.1/22

Left: 6.718+/-0.135 χ^2 /NDF: 2329.7/47

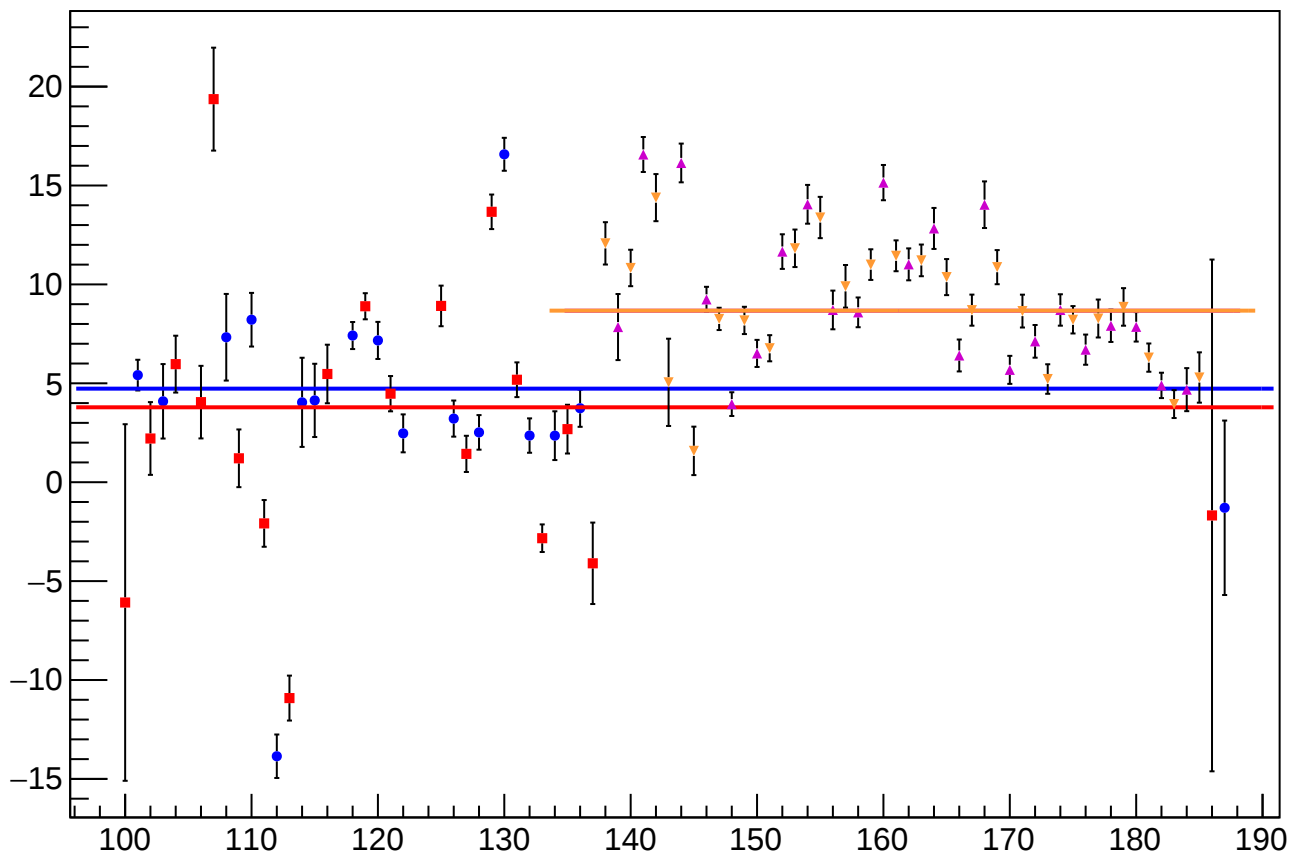
Right: 29.937+/-0.293 χ^2 /NDF: 3605.9/35

In: 10.300+/-0.172 χ^2 /NDF:5045.3/39

Out: 11.280+/-0.174 χ^2 /NDF:6070.0/43

All: 10.785+/-0.122 χ^2 /NDF: 11131.4/83

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: 3.787 $\pm$ 0.259 χ^2 /NDF: 564.9/18

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

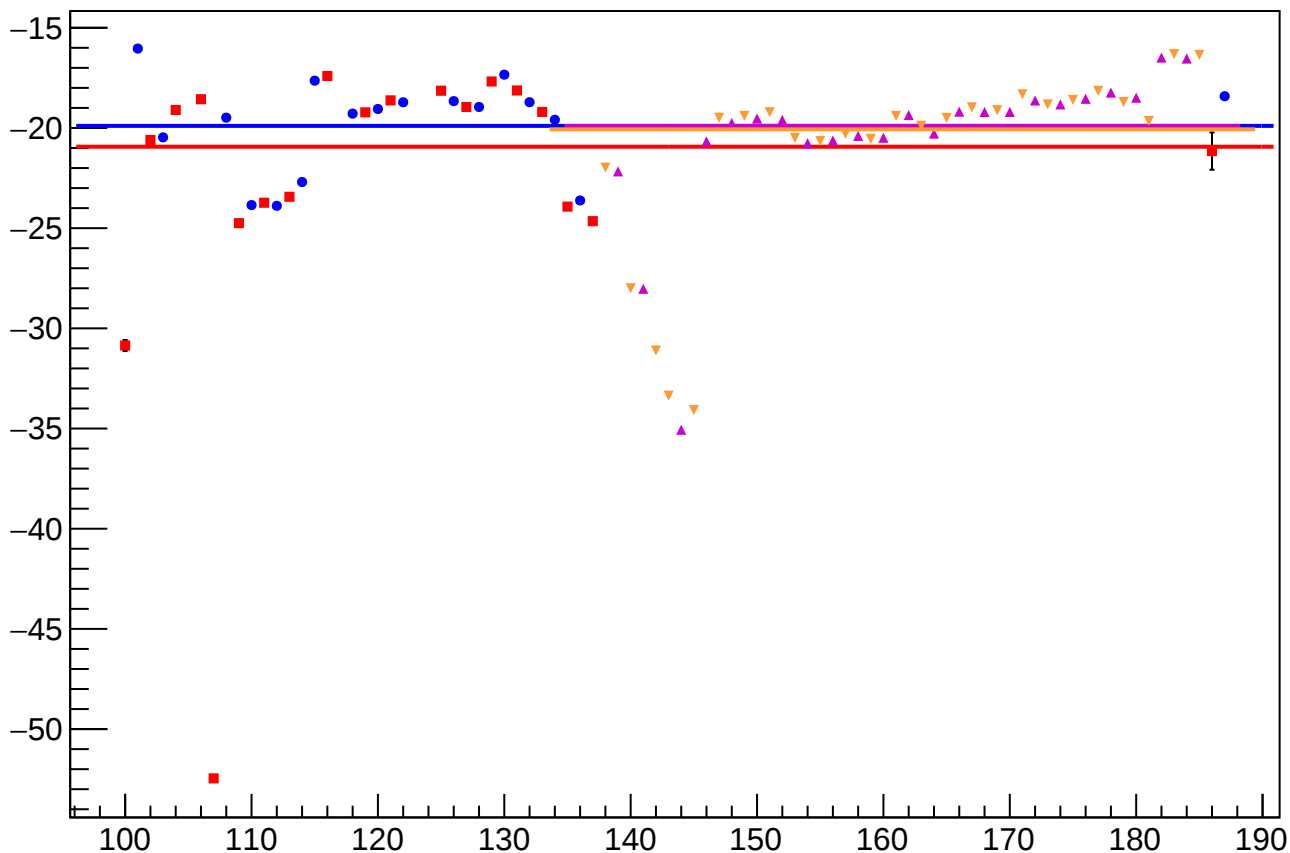
Right: 4.267 $\pm$ 0.181 χ^2 /NDF: 1120.1/35

In: 7.449 $\pm$ 0.141 χ^2 /NDF:1151.0/39

Out: 7.220 $\pm$ 0.141 χ^2 /NDF:1058.8/43

All: 7.334 $\pm$ 0.100 χ^2 /NDF: 2211.1/83

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.896 $\pm$ 0.016 χ^2 /NDF: 26055.2/16

Left Out: -20.069 $\pm$ 0.008 χ^2 /NDF:185373.7/24

Right Out: -20.936 $\pm$ 0.016 χ^2 /NDF: 93988.8/18

Left In: -19.898 $\pm$ 0.008 χ^2 /NDF:144191.9/22

Left: -19.983 $\pm$ 0.006 χ^2 /NDF: 329802.7/47

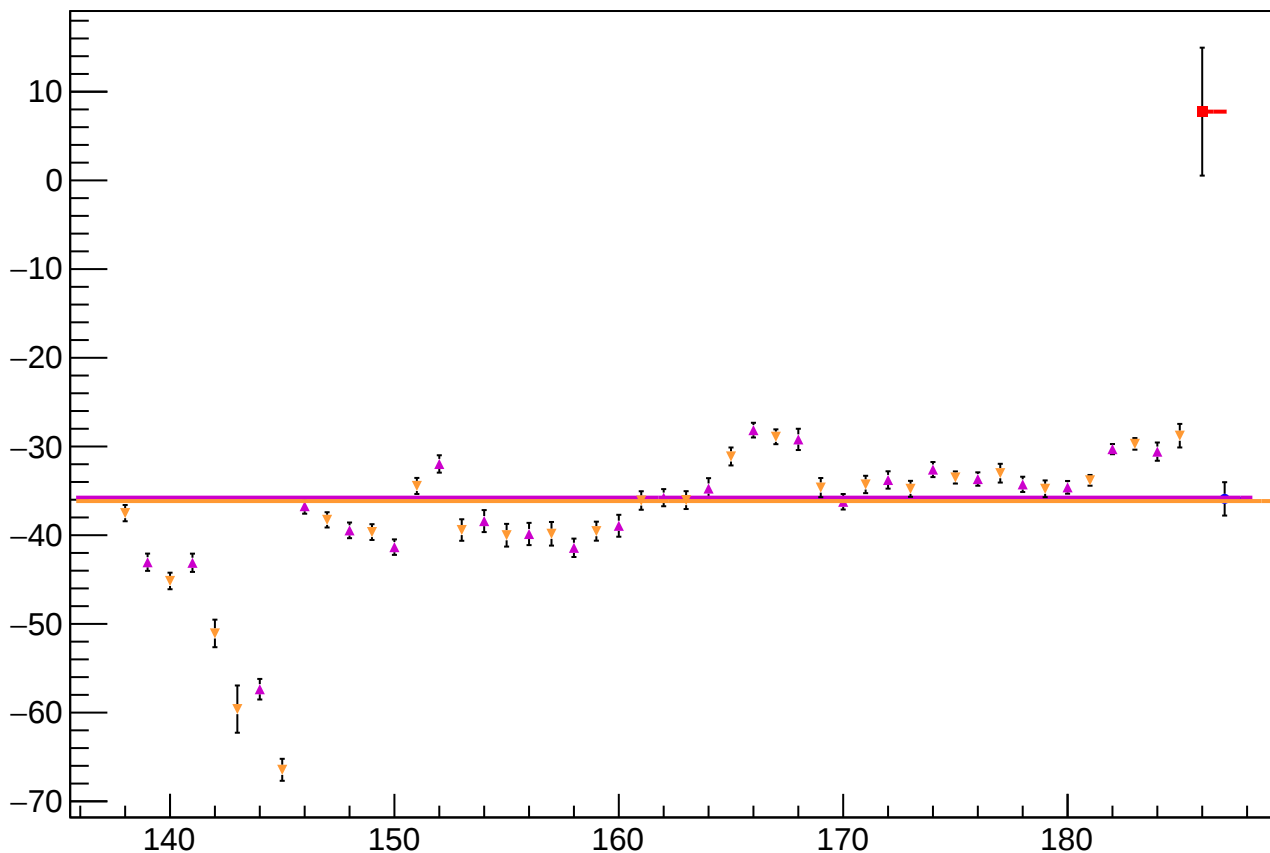
Right: -20.413 $\pm$ 0.011 χ^2 /NDF: 122242.8/35

In: -19.898 $\pm$ 0.007 χ^2 /NDF:170247.1/39

Out: -20.243 $\pm$ 0.007 χ^2 /NDF:281789.1/43

All: -20.069 $\pm$ 0.005 χ^2 /NDF: 453242.8/83

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -35.906 $\pm$ 1.881 χ^2 /NDF: 0.0/0

Left Out: -36.152 $\pm$ 0.191 χ^2 /NDF:1199.2/24

Right Out: 7.751 $\pm$ 7.212 χ^2 /NDF: 0.0/0

Left In: -35.766 $\pm$ 0.191 χ^2 /NDF:842.6/22

Left: -35.959 $\pm$ 0.135 χ^2 /NDF: 2043.8/47

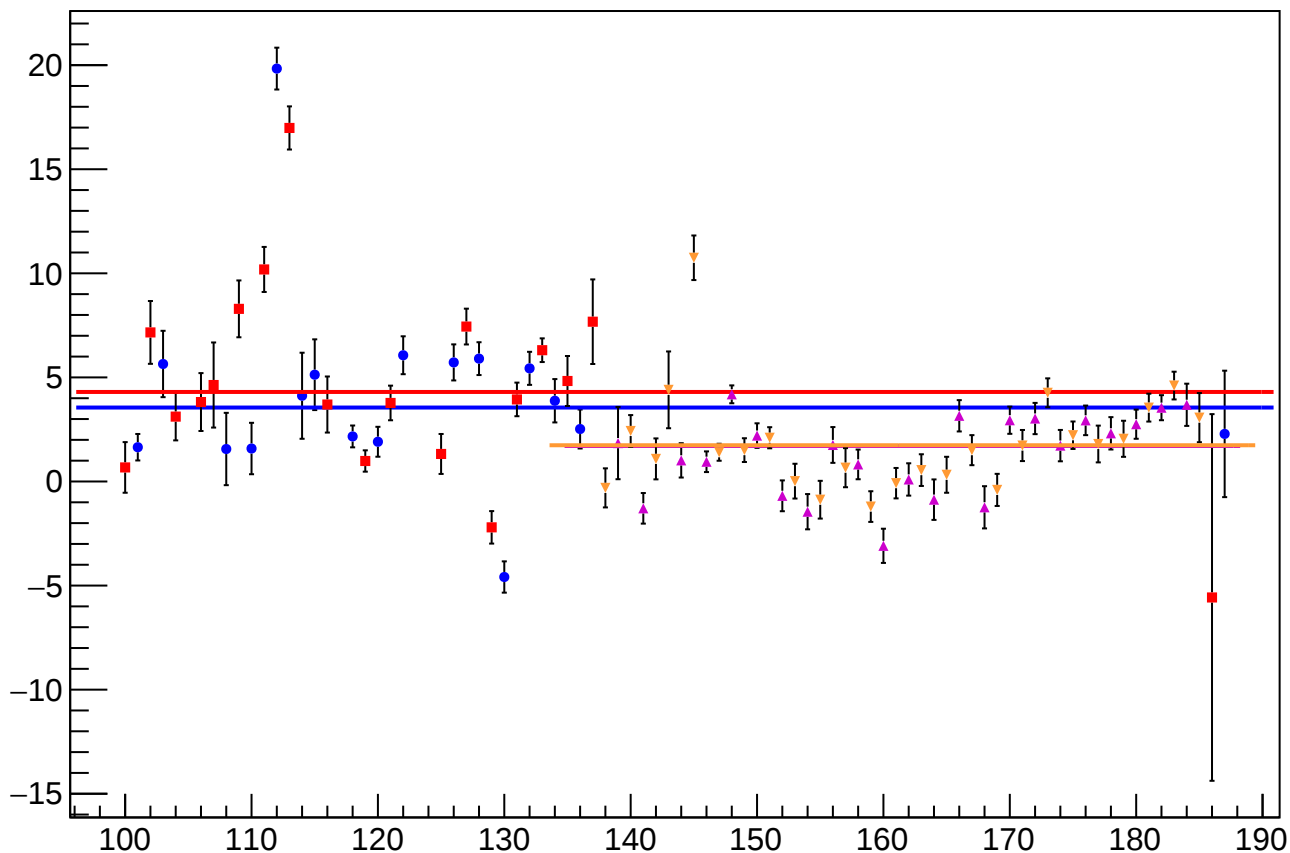
Right: -33.124 $\pm$ 1.820 χ^2 /NDF: 34.3/1

In: -35.768 $\pm$ 0.190 χ^2 /NDF:842.6/23

Out: -36.121 $\pm$ 0.191 χ^2 /NDF:1236.2/25

All: -35.944 $\pm$ 0.135 χ^2 /NDF: 2080.6/49

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: 4.301 ± 0.221 $\chi^2/\text{NDF}: 353.4/18$

Left In: 1.705 ± 0.149 $\chi^2/\text{NDF}: 163.0/22$

Left: 1.723 ± 0.105 $\chi^2/\text{NDF}: 333.2/47$

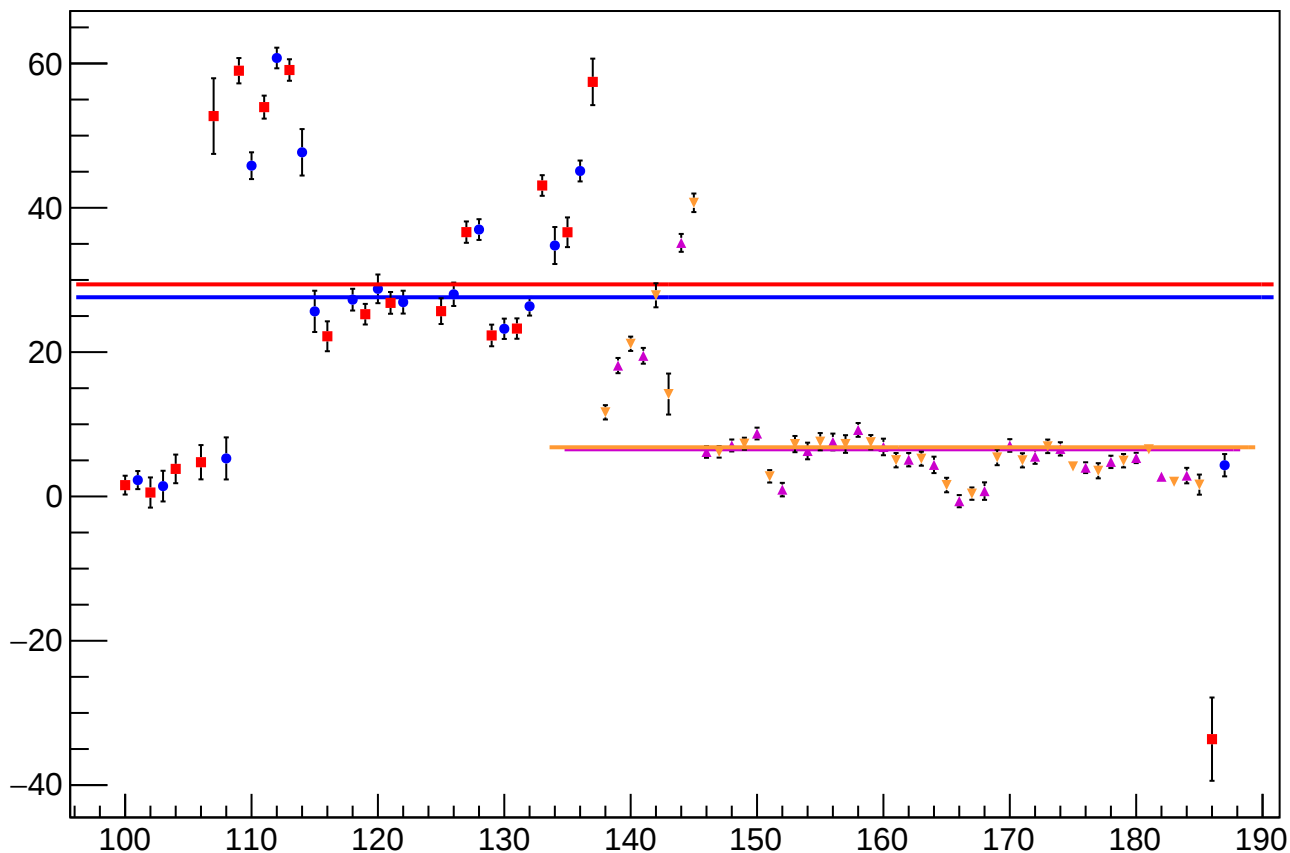
Right: 3.924 ± 0.156 $\chi^2/\text{NDF}: 796.4/35$

In: 2.288 ± 0.124 $\chi^2/\text{NDF}: 648.5/39$

Out: 2.526 ± 0.123 $\chi^2/\text{NDF}: 616.4/43$

All: 2.408 ± 0.087 $\chi^2/\text{NDF}: 1266.8/83$

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: 29.388 $\pm$ 0.402 χ^2 /NDF: 2248.8/18

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

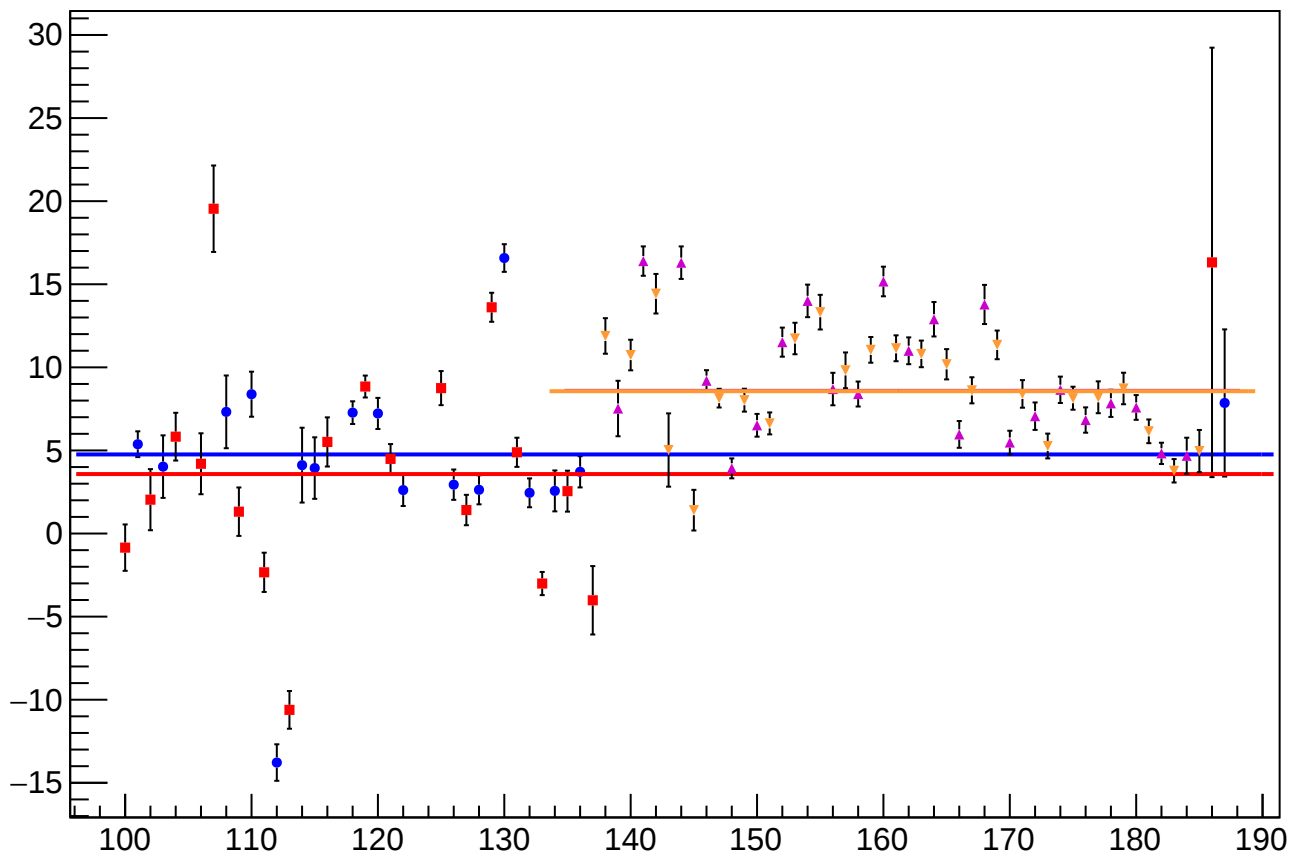
Right: 28.503 $\pm$ 0.285 χ^2 /NDF: 3985.3/35

In: 10.337 $\pm$ 0.172 χ^2 /NDF:4959.0/39

Out: 10.962 $\pm$ 0.172 χ^2 /NDF:6125.5/43

All: 10.649 $\pm$ 0.122 χ^2 /NDF: 11091.1/83

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: 3.578 ± 0.255 χ^2/NDF : 571.4/18

Left In: 8.585 ± 0.170 χ^2/NDF : 441.8/22

Left: 8.575 ± 0.120 χ^2/NDF : 689.9/47

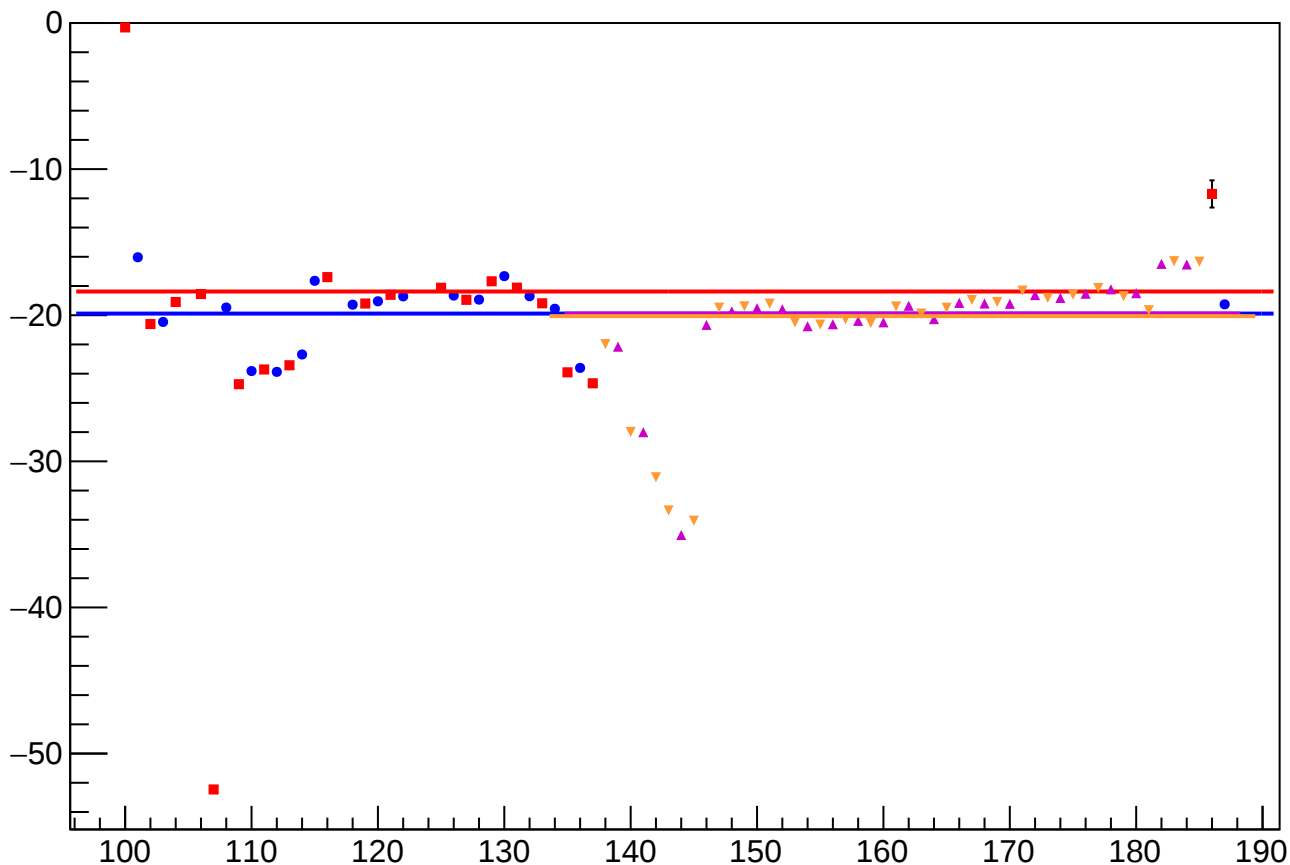
Right: 4.170 ± 0.180 χ^2/NDF : 1125.7/35

In: 7.400 ± 0.141 χ^2/NDF : 1142.0/39

Out: 7.047 ± 0.140 χ^2/NDF : 1086.4/43

All: 7.222 ± 0.100 χ^2/NDF : 2231.6/83

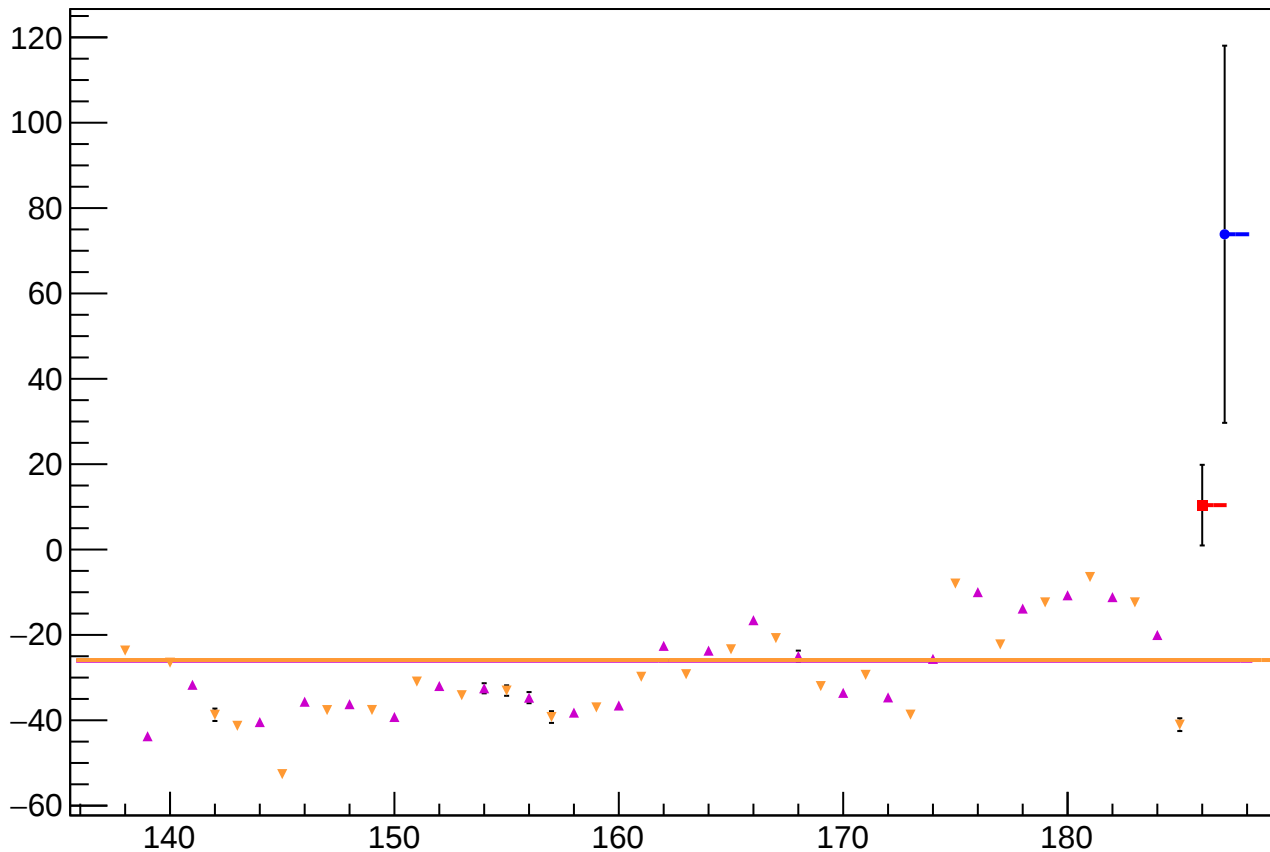
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



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: -18.377 ± 0.015 $\chi^2/\text{NDF}: 301061.2/18$
 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: -19.089 ± 0.011 $\chi^2/\text{NDF}: 332013.1/35$
 In: -19.890 ± 0.007 $\chi^2/\text{NDF}: 170070.7/39$
 Out: -19.689 ± 0.007 $\chi^2/\text{NDF}: 496782.6/43$
 All: -19.788 ± 0.005 $\chi^2/\text{NDF}: 667268.7/83$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



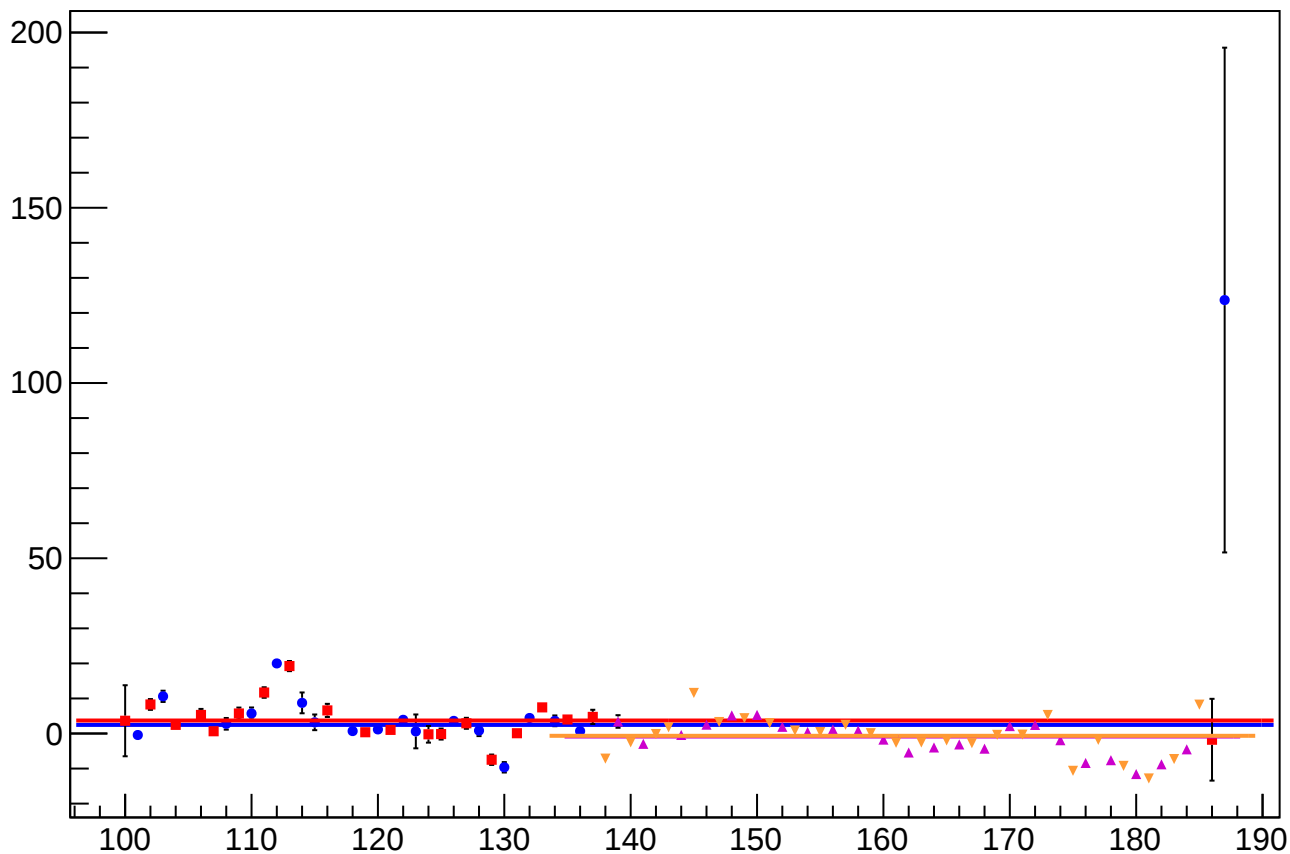
Right In: 73.867 $\pm$ 44.183 χ^2 /NDF: 0.0/0
 Left Out: -25.884 $\pm$ 0.192 χ^2 /NDF:4158.0/24
 Right Out: 10.404 $\pm$ 9.447 χ^2 /NDF: 0.0/0
 Left In: -26.052 $\pm$ 0.195 χ^2 /NDF:3279.5/22

Left: -25.967 $\pm$ 0.137 χ^2 /NDF: 7437.8/47
 Right: 13.179 $\pm$ 9.238 χ^2 /NDF: 2.0/1

In: -26.050 $\pm$ 0.195 χ^2 /NDF:3284.6/23
 Out: -25.870 $\pm$ 0.192 χ^2 /NDF:4172.7/25

All: -25.958 $\pm$ 0.137 χ^2 /NDF: 7457.8/49

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: 3.709 ± 0.327 χ^2/NDF : 269.3/19

Left In: -0.863 ± 0.150 χ^2/NDF : 1066.5/22

Left: -0.756 ± 0.105 χ^2/NDF : 2388.3/47

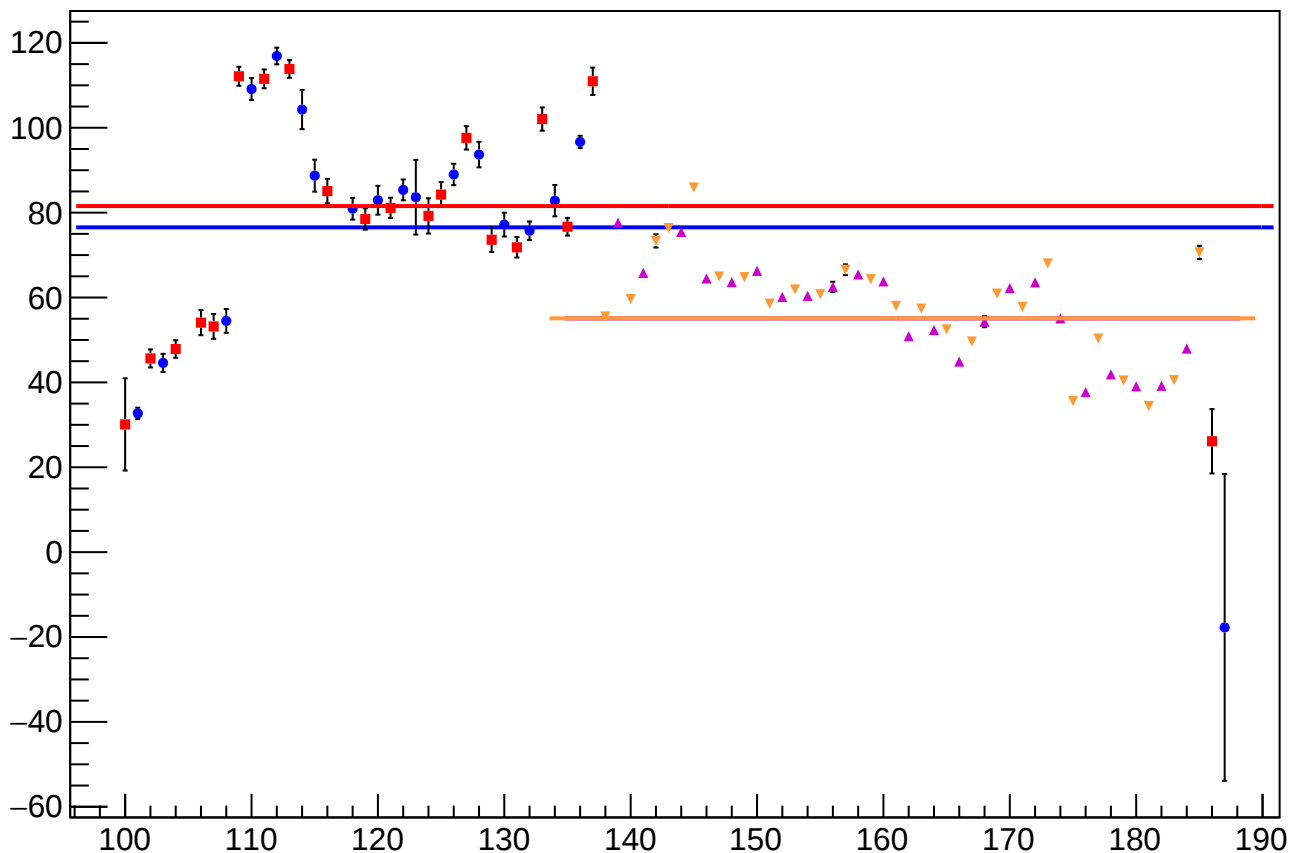
Right: 3.060 ± 0.227 χ^2/NDF : 574.1/37

In: -0.246 ± 0.136 χ^2/NDF : 1454.2/40

Out: 0.074 ± 0.133 χ^2/NDF : 1738.8/44

All: -0.083 ± 0.095 χ^2/NDF : 3195.9/85

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: 81.547 $\pm$ 0.591 χ^2 /NDF: 1624.5/19

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

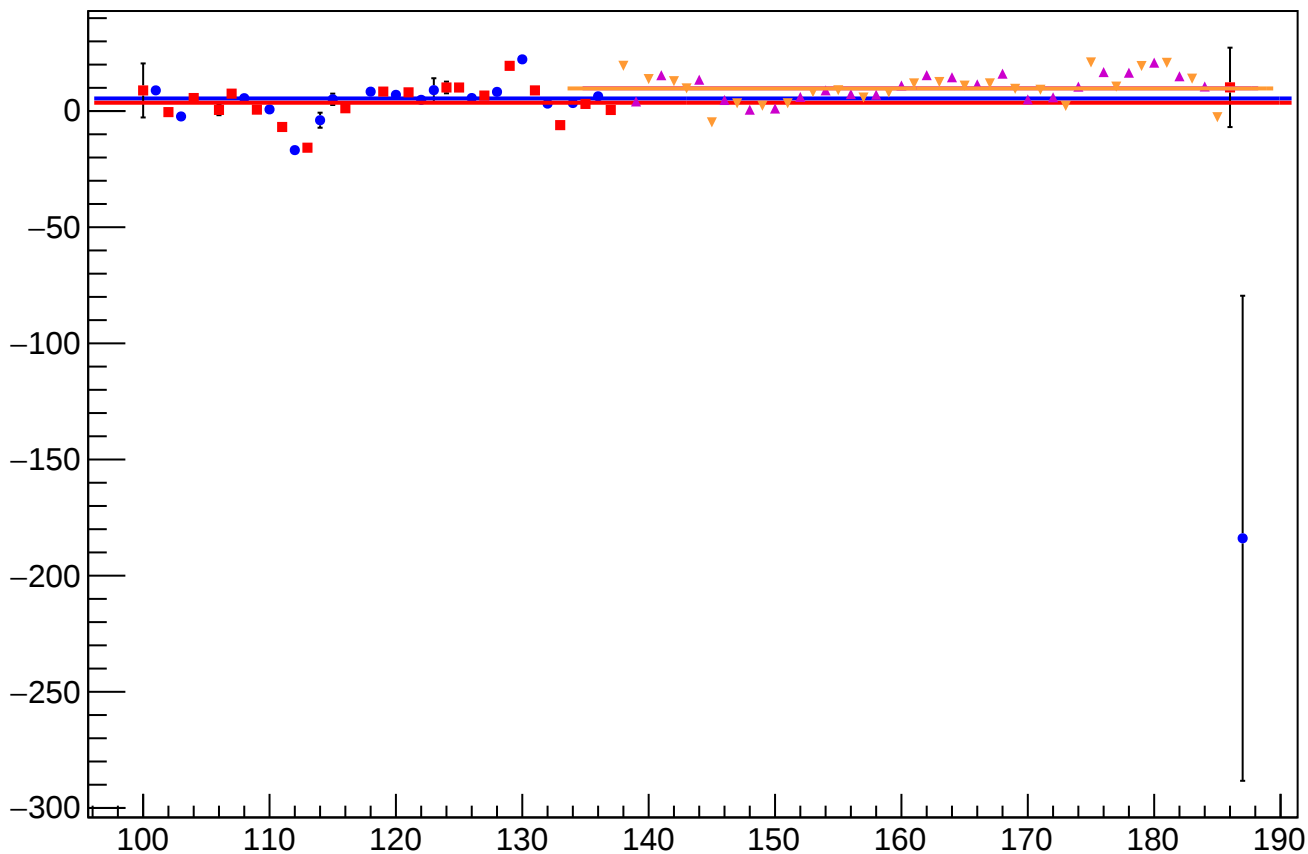
Right: 78.978 $\pm$ 0.413 χ^2 /NDF: 3921.0/37

In: 57.240 $\pm$ 0.183 χ^2 /NDF: 7206.5/40

Out: 57.610 $\pm$ 0.182 χ^2 /NDF: 8016.0/44

All: 57.426 $\pm$ 0.129 χ^2 /NDF: 15224.6/85

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.426+/-0.361 χ^2/NDF : 389.0/17

Left Out: 9.737+/-0.168 χ^2/NDF :1450.2/24

Right Out: 3.585+/-0.375 χ^2/NDF : 421.8/19

Left In: 9.803+/-0.172 χ^2/NDF :1158.7/22

Left: 9.769+/-0.120 χ^2/NDF : 2609.0/47

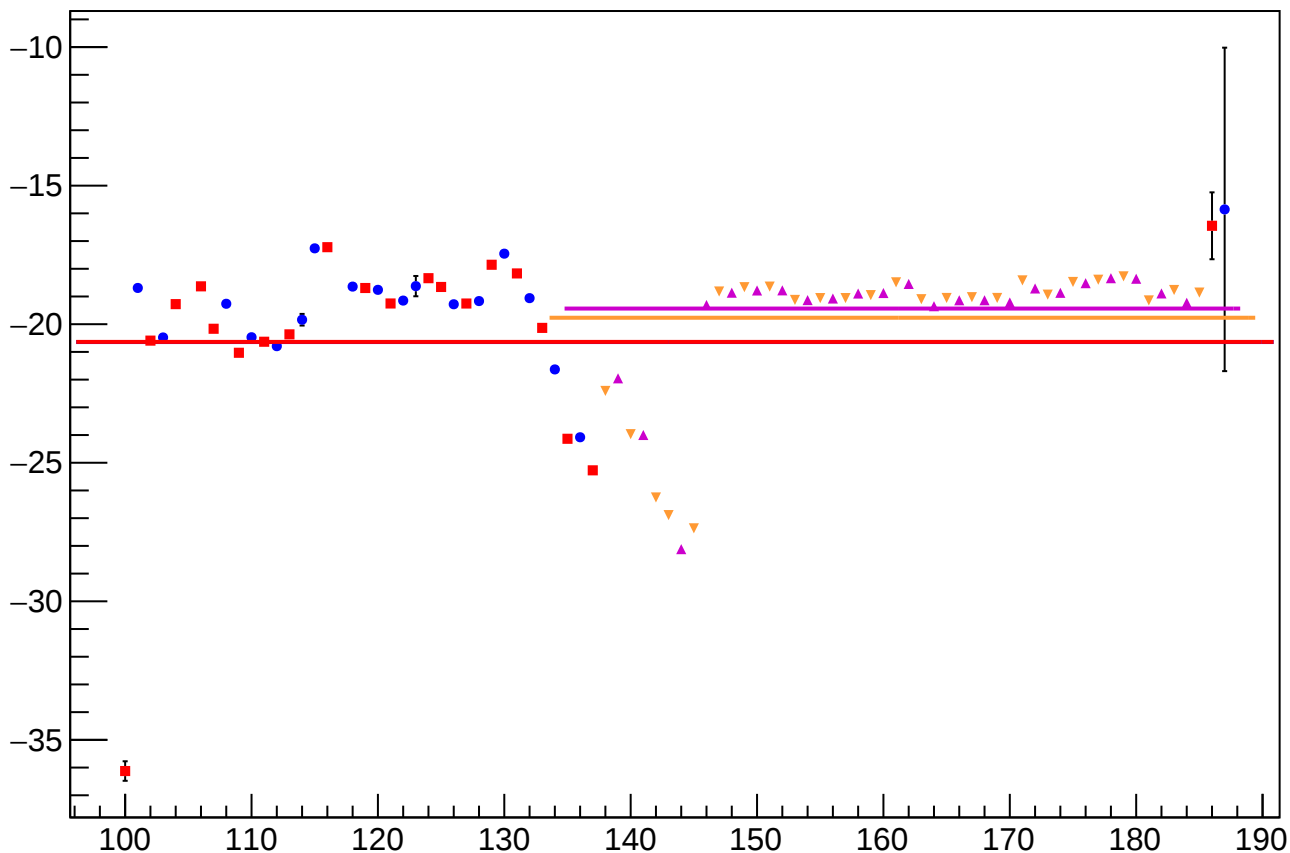
Right: 4.542+/-0.260 χ^2/NDF : 823.2/37

In: 8.996+/-0.155 χ^2/NDF :1667.7/40

Out: 8.713+/-0.153 χ^2/NDF :2095.7/44

All: 8.853+/-0.109 χ^2/NDF : 3765.1/85

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: 13797.9/19

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

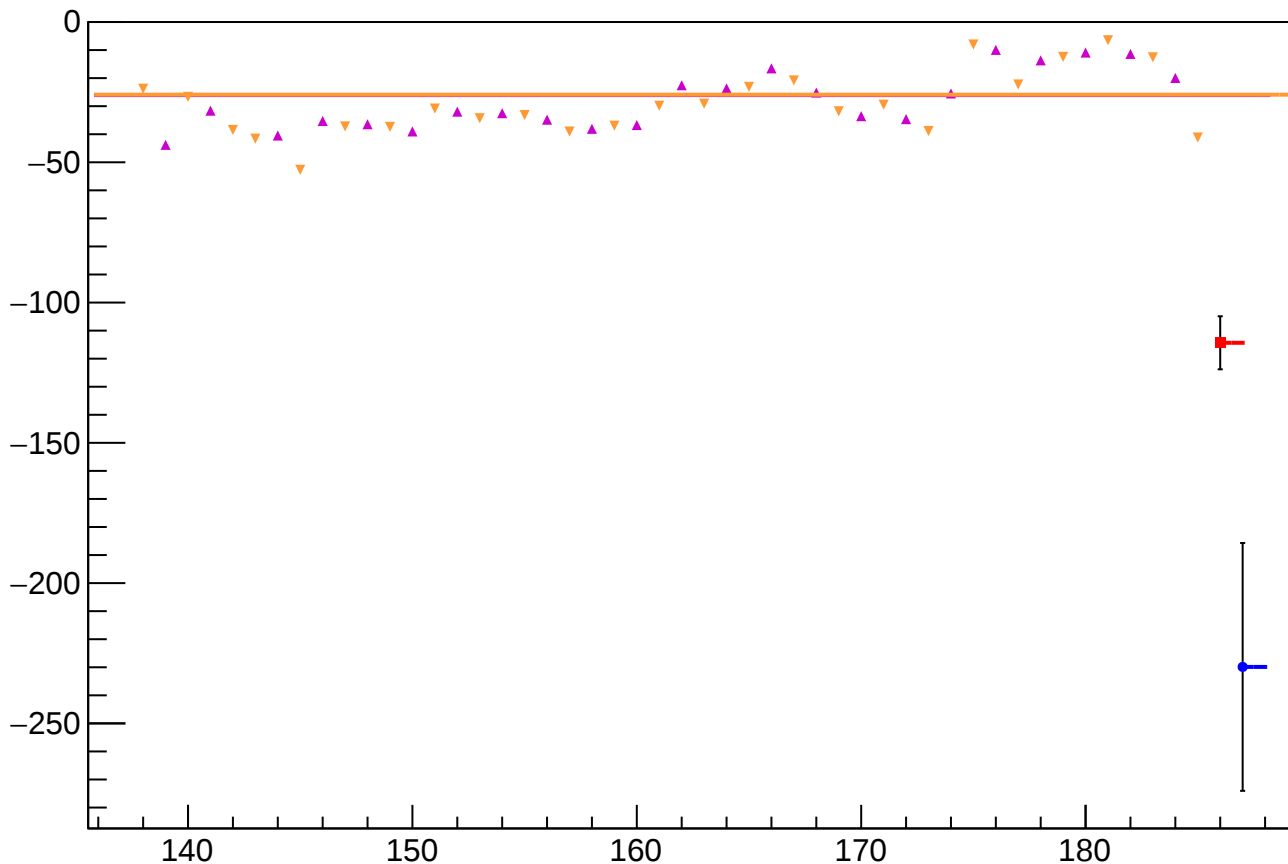
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26222.8/37

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68932.0/40

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107137.8/44

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176798.6/85

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: -114.340+/-9.454 χ^2/NDF : 0.0/0

Left In: -26.046+/-0.195 χ^2/NDF : 3246.7/22

Left: -25.971+/-0.137 χ^2/NDF : 7374.6/47

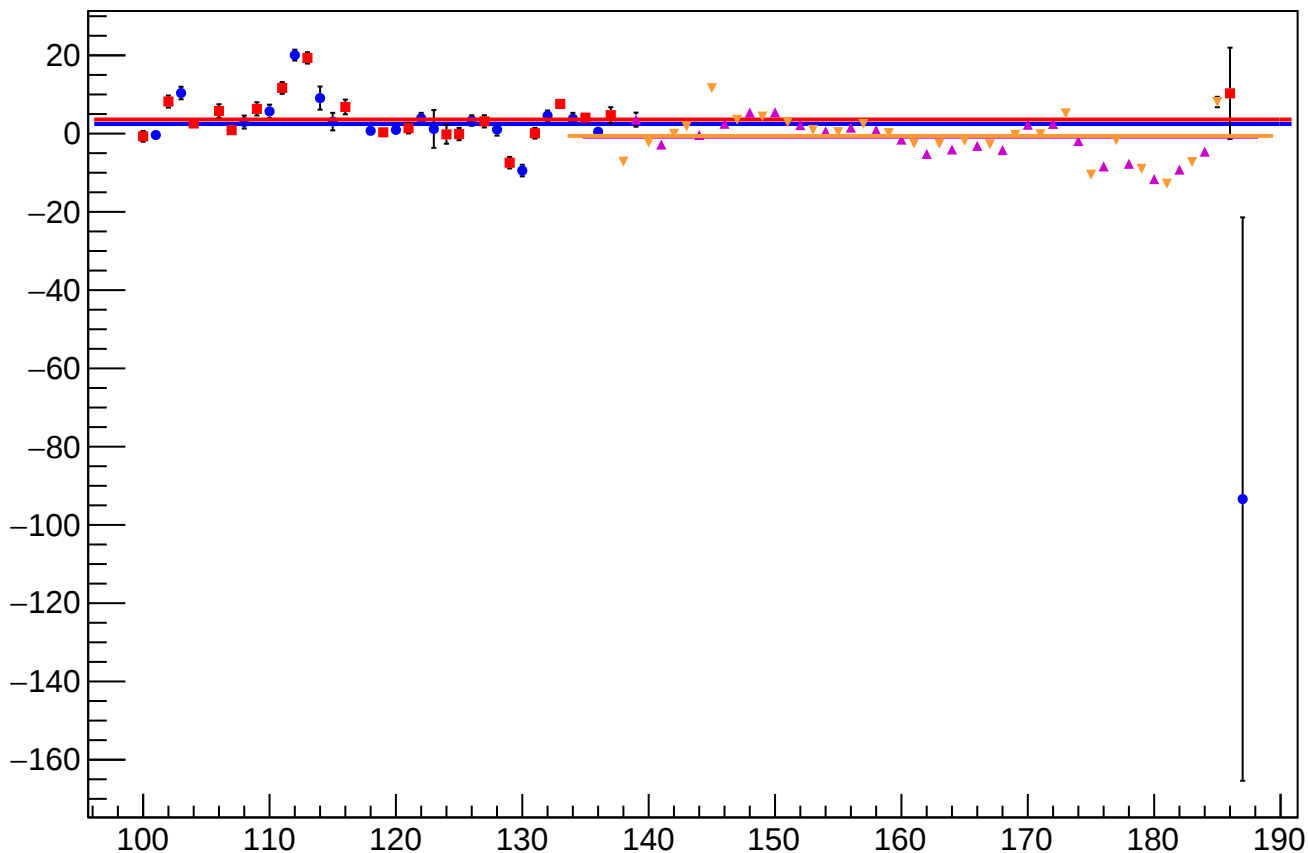
Right: -119.401+/-9.244 χ^2/NDF : 6.5/1

In: -26.050+/-0.195 χ^2/NDF : 3268.0/23

Out: -25.935+/-0.192 χ^2/NDF : 4215.0/25

All: -25.992+/-0.137 χ^2/NDF : 7483.2/49

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: 3.597+/-0.318 χ^2/NDF : 280.4/19

Left In: -0.795+/-0.151 χ^2/NDF :1106.3/22

Left: -0.693+/-0.105 χ^2/NDF : 2417.9/47

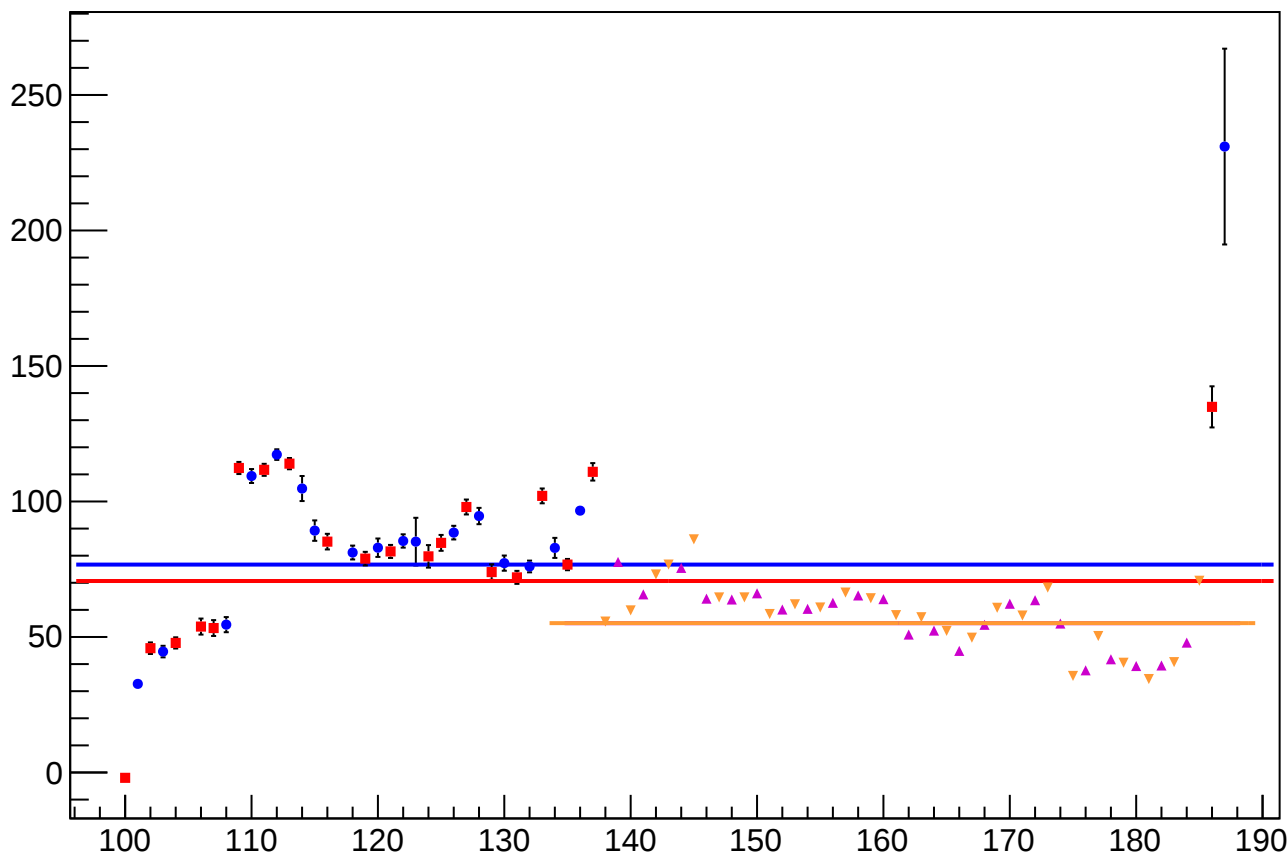
Right: 3.020+/-0.224 χ^2/NDF : 581.0/37

In: -0.191+/-0.136 χ^2/NDF :1486.9/40

Out: 0.136+/-0.133 χ^2/NDF :1734.6/44

All: -0.024+/-0.095 χ^2/NDF : 3224.5/85

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: 70.654 $\pm$ 0.549 χ^2 /NDF: 4459.3/19

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

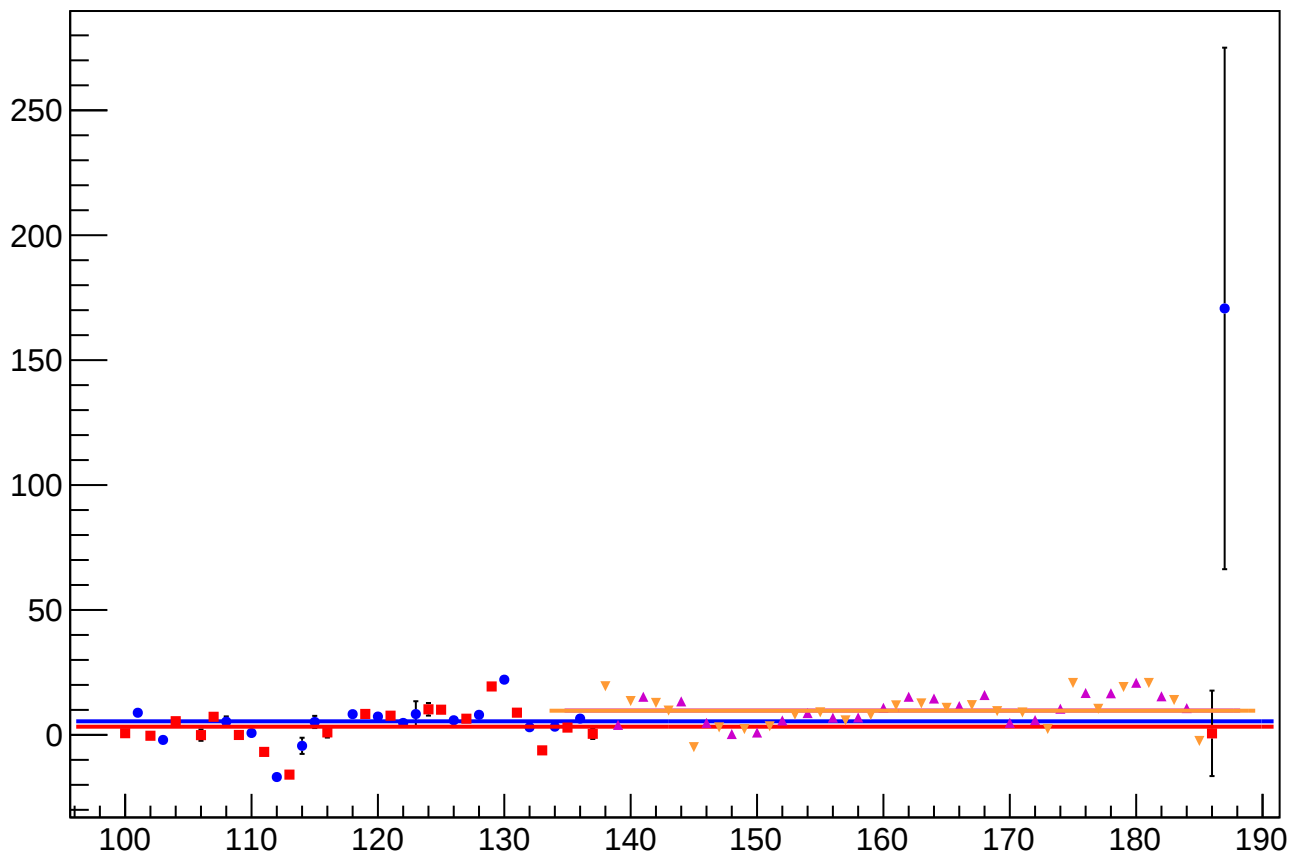
Right: 73.533 $\pm$ 0.398 χ^2 /NDF: 6800.3/37

In: 57.281 $\pm$ 0.184 χ^2 /NDF: 7209.0/40

Out: 56.798 $\pm$ 0.181 χ^2 /NDF: 9733.9/44

All: 57.036 $\pm$ 0.129 χ^2 /NDF: 16946.3/85

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: 425.1/19

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

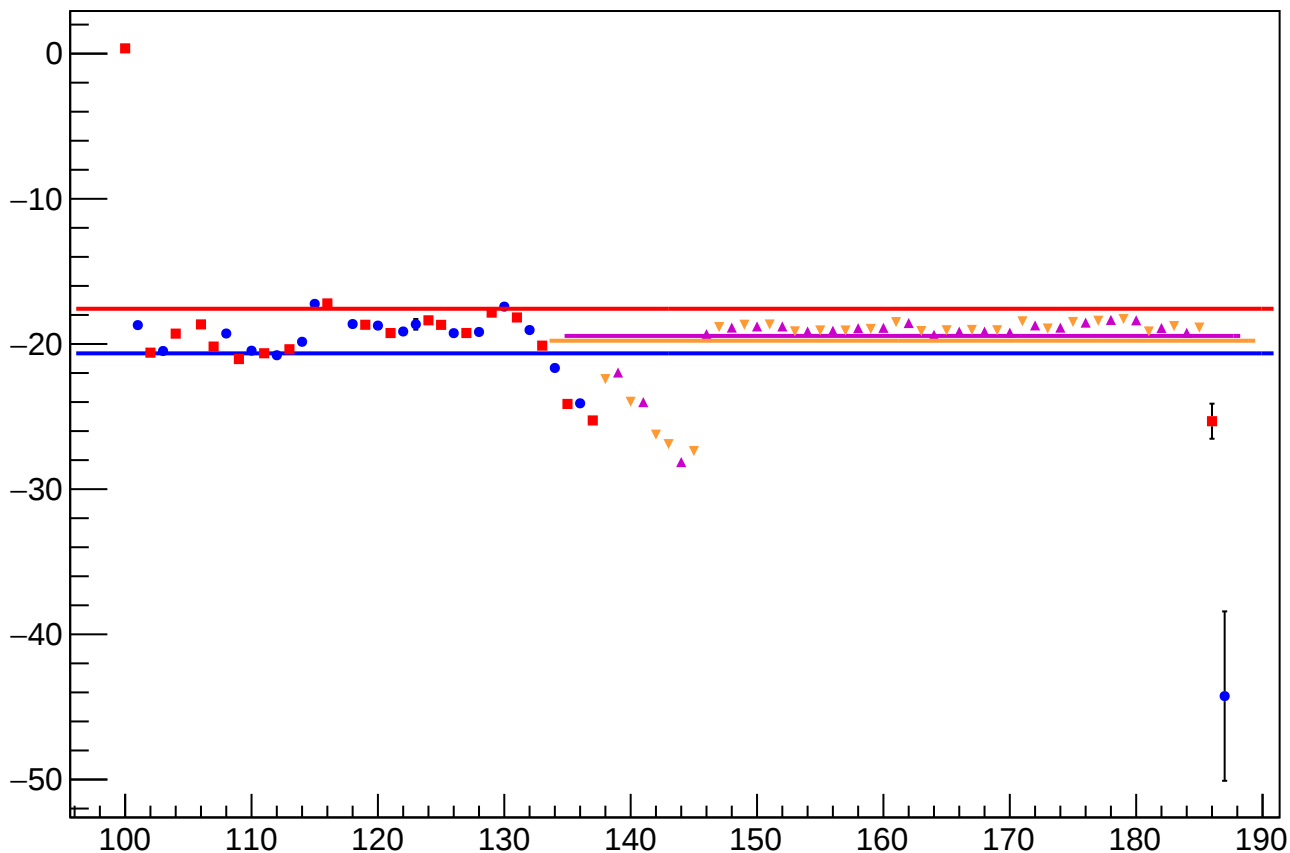
Right: 4.368 $\pm$ 0.257 χ^2 /NDF: 829.3/37

In: 8.943 $\pm$ 0.155 χ^2 /NDF:1693.9/40

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2119.3/44

All: 8.749 $\pm$ 0.109 χ^2 /NDF: 3816.3/85

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: -17.573 $\pm$ 0.018 χ^2 /NDF: 178359.2/19

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

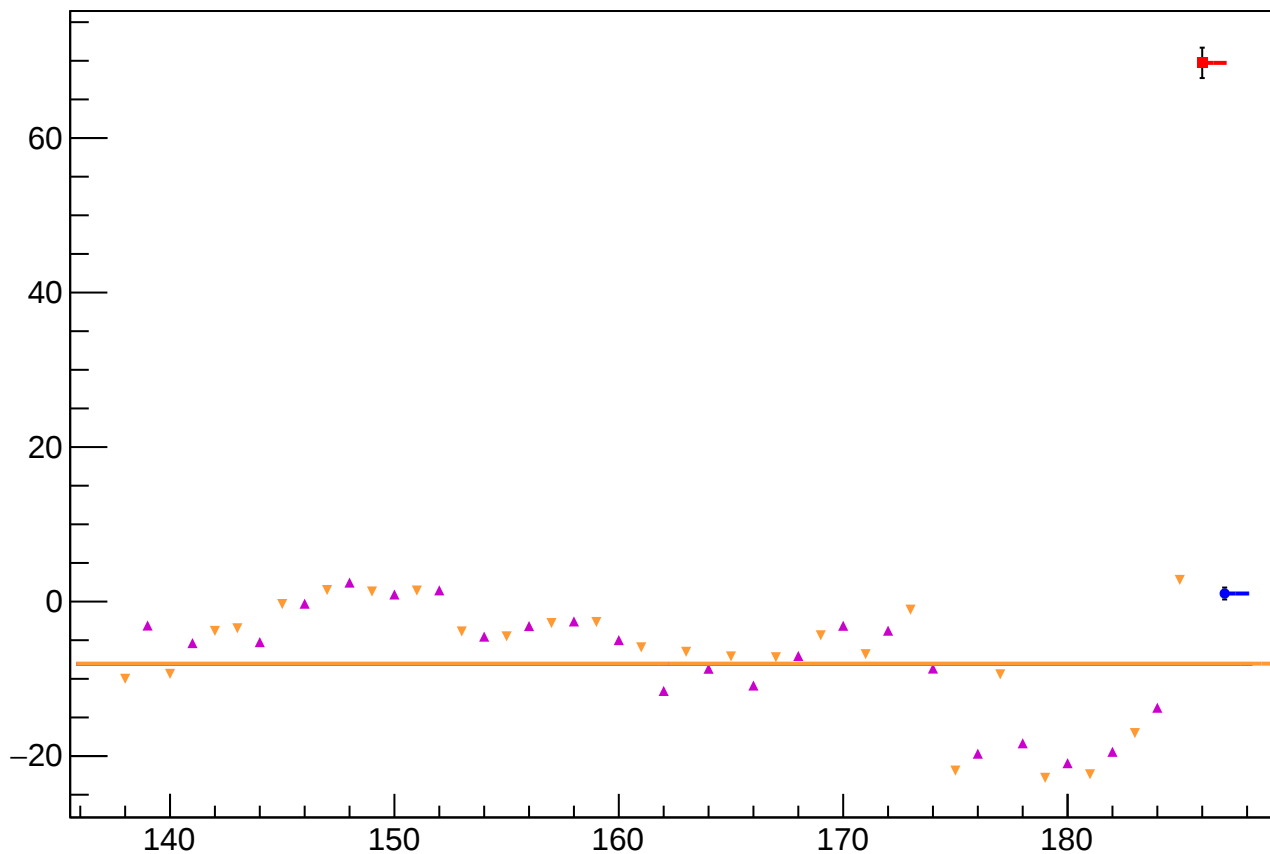
Right: -19.001 $\pm$ 0.013 χ^2 /NDF: 204313.5/37

In: -19.618 $\pm$ 0.007 χ^2 /NDF: 68892.6/40

Out: -19.422 $\pm$ 0.007 χ^2 /NDF: 282370.6/44

All: -19.518 $\pm$ 0.005 χ^2 /NDF: 351626.5/85

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: 69.732+/-1.967 χ^2/NDF : 0.0/0

Left In: -8.078+/-0.072 χ^2/NDF :10541.6/22

Left: -8.055+/-0.050 χ^2/NDF : 23109.8/47

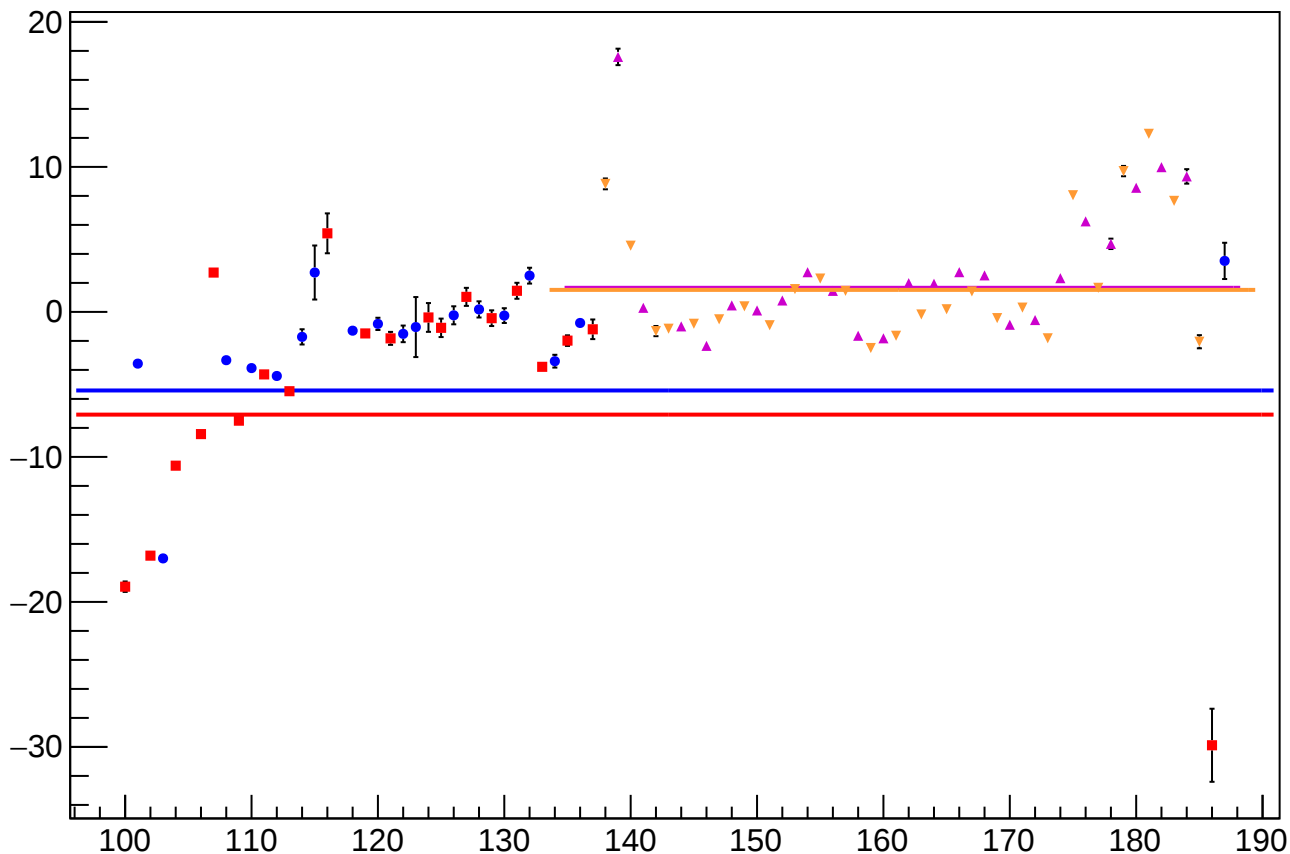
Right: 10.193+/-0.718 χ^2/NDF : 1057.1/1

In: -7.999+/-0.072 χ^2/NDF :10680.3/23

Out: -7.935+/-0.070 χ^2/NDF :14129.2/25

All: -7.966+/-0.050 χ^2/NDF : 24810.0/49

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: -7.084 ± 0.059 χ^2/NDF : 12376.2/19

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

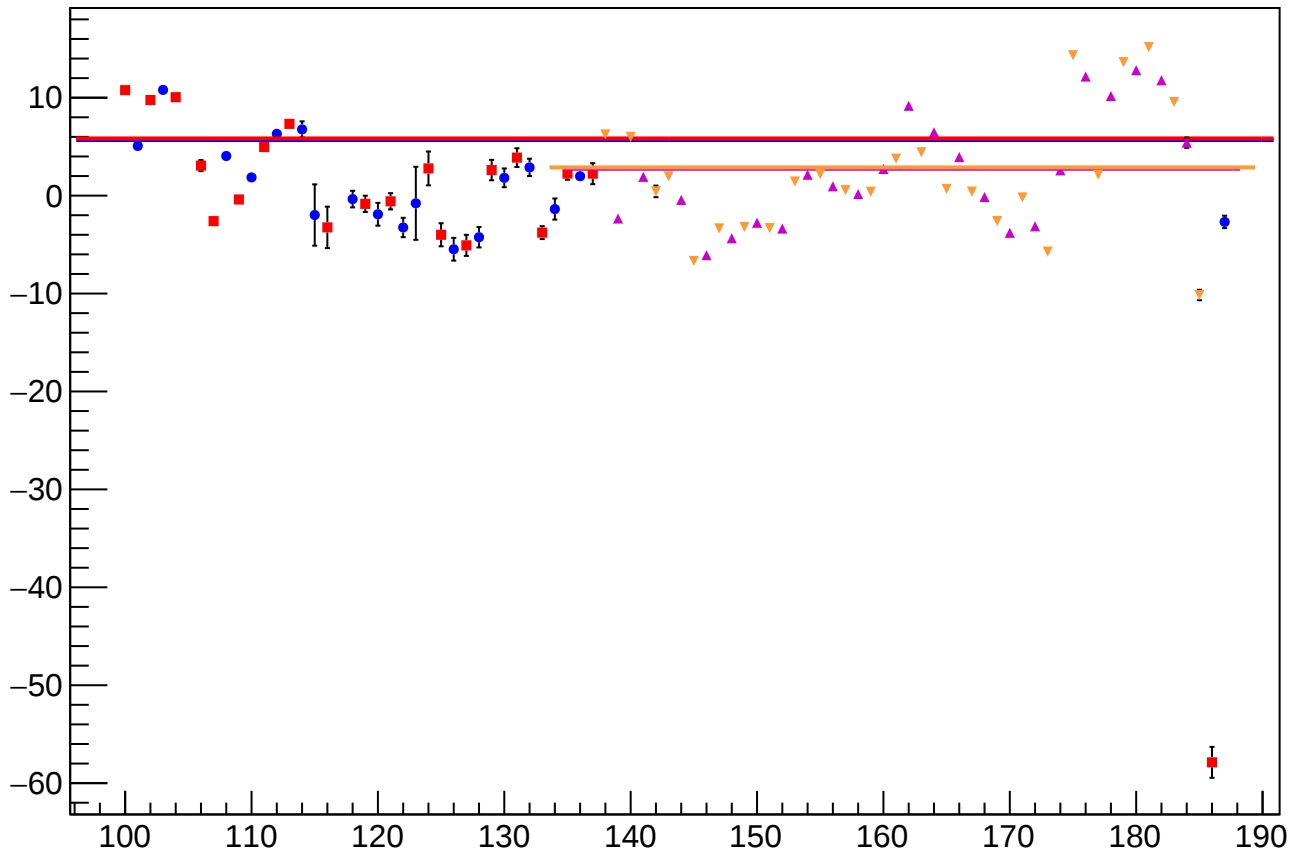
Right: -6.190 ± 0.040 χ^2/NDF : 22081.3/37

In: -1.988 ± 0.039 χ^2/NDF : 21388.2/40

Out: -2.429 ± 0.040 χ^2/NDF : 28714.2/44

All: -2.205 ± 0.028 χ^2/NDF : 50164.2/85

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.674 ± 0.089 χ^2/NDF : 1613.6/17

Left Out: 2.884 ± 0.070 χ^2/NDF : 8893.2/24

Right Out: 5.839 ± 0.093 χ^2/NDF : 4299.4/19

Left In: 2.745 ± 0.071 χ^2/NDF : 7183.1/22

Left: 2.816 ± 0.050 χ^2/NDF : 16078.2/47

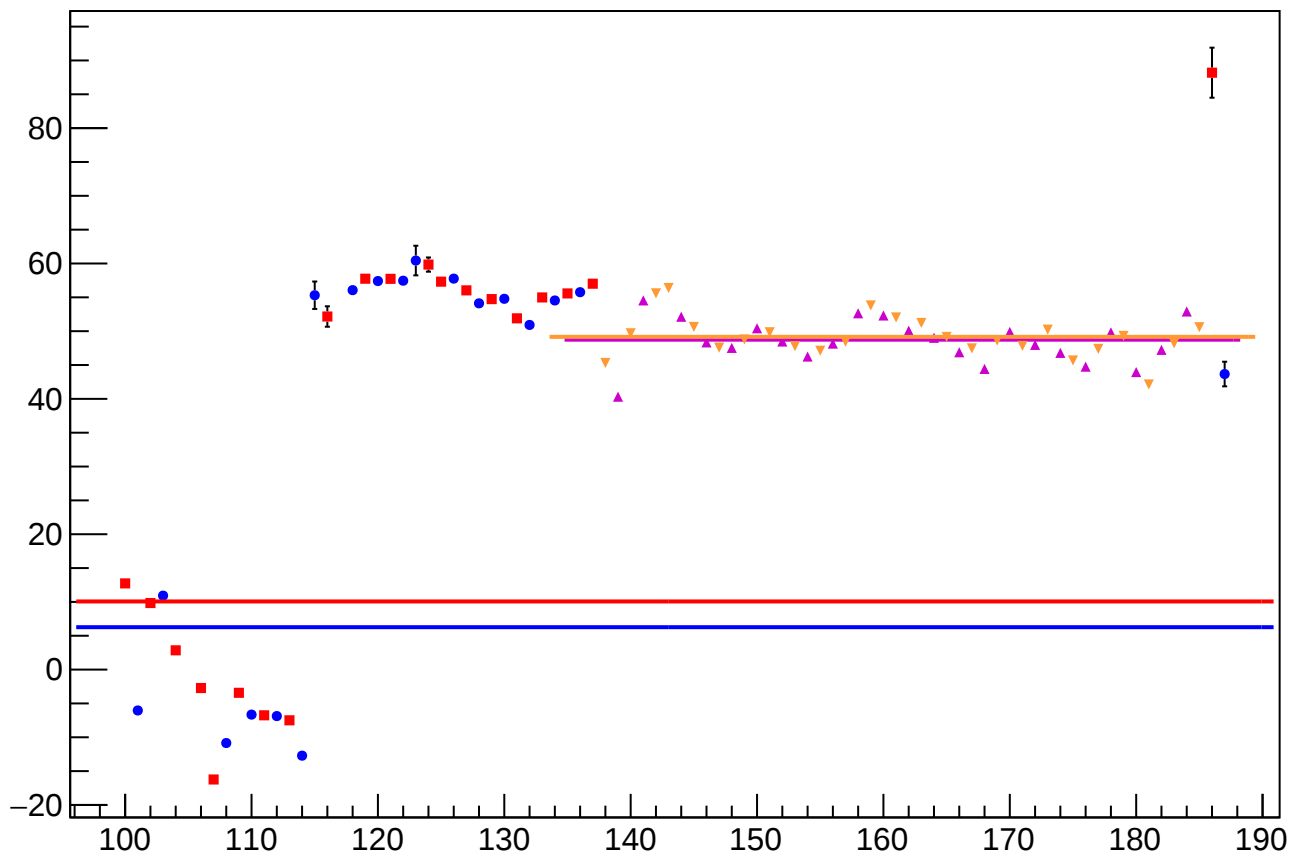
Right: 5.753 ± 0.064 χ^2/NDF : 5914.7/37

In: 3.896 ± 0.056 χ^2/NDF : 9457.1/40

Out: 3.955 ± 0.056 χ^2/NDF : 13833.6/44

All: 3.925 ± 0.040 χ^2/NDF : 23291.2/85

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.264+/-0.065 χ^2/NDF : 121023.0/17

Left Out: 49.163+/-0.062 χ^2/NDF : 2259.9/24

Right Out: 10.067+/-0.070 χ^2/NDF : 122172.7/19

Left In: 48.744+/-0.064 χ^2/NDF : 2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

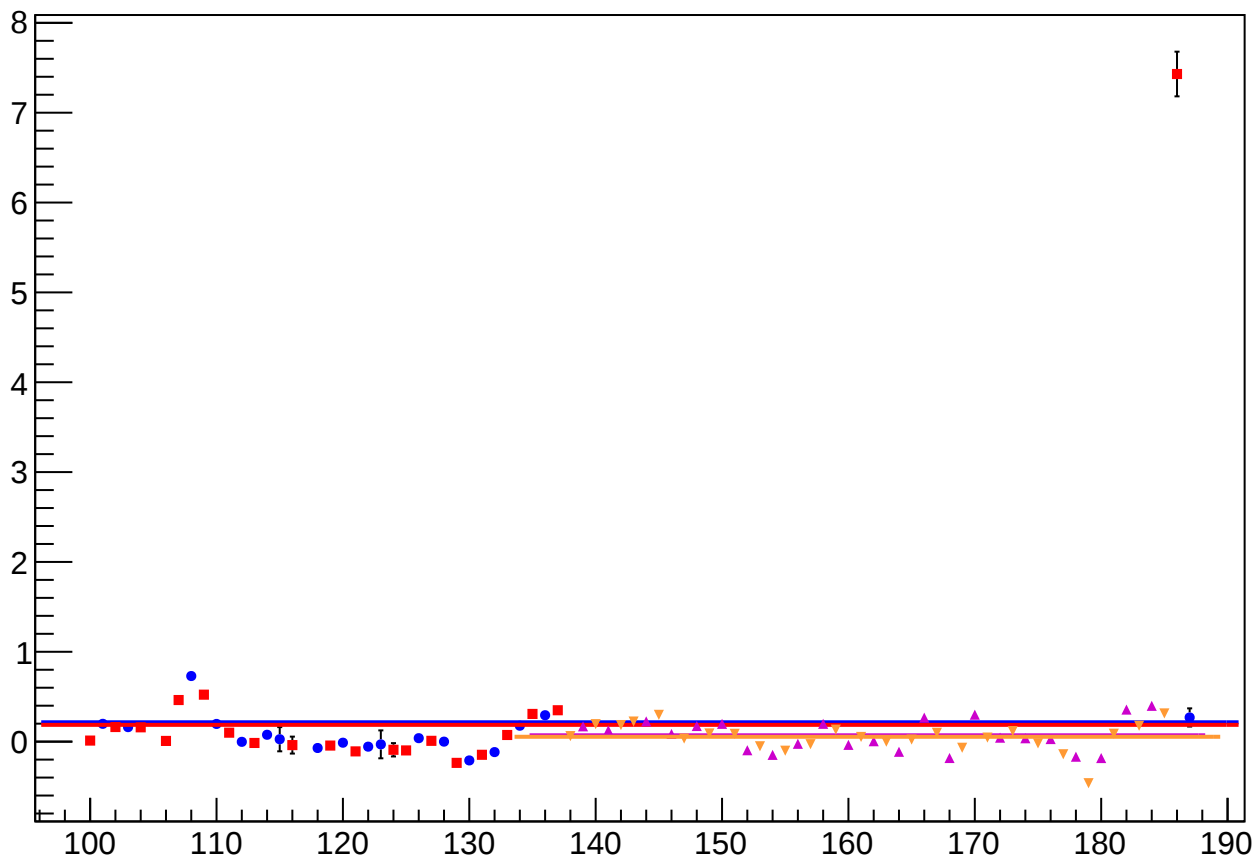
Right: 8.027+/-0.047 χ^2/NDF : 244790.9/37

In: 27.852+/-0.045 χ^2/NDF : 341382.3/40

Out: 31.989+/-0.046 χ^2/NDF : 300579.3/44

All: 29.885+/-0.032 χ^2/NDF : 646032.7/85

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: 0.187+/-0.003 χ^2/NDF : 3564.4/19

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

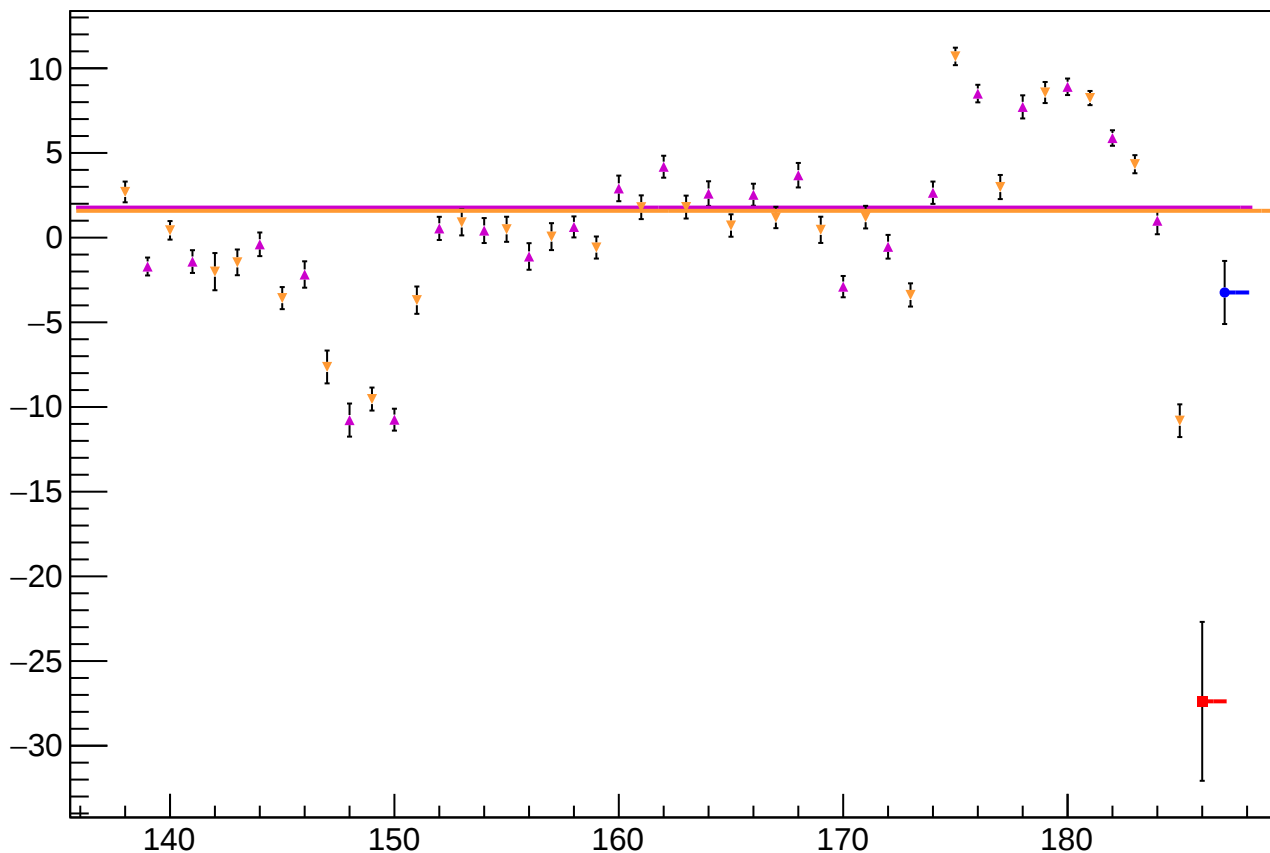
Right: 0.201+/-0.002 χ^2/NDF : 7543.1/37

In: 0.145+/-0.002 χ^2/NDF : 8482.1/40

Out: 0.124+/-0.002 χ^2/NDF : 7104.5/44

All: 0.134+/-0.001 χ^2/NDF : 15646.7/85

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: -27.380+/-4.692 χ^2 /NDF: 0.0/0

Left In: 1.774+/-0.135 χ^2 /NDF:1297.3/22

Left: 1.677+/-0.095 χ^2 /NDF: 2757.2/47

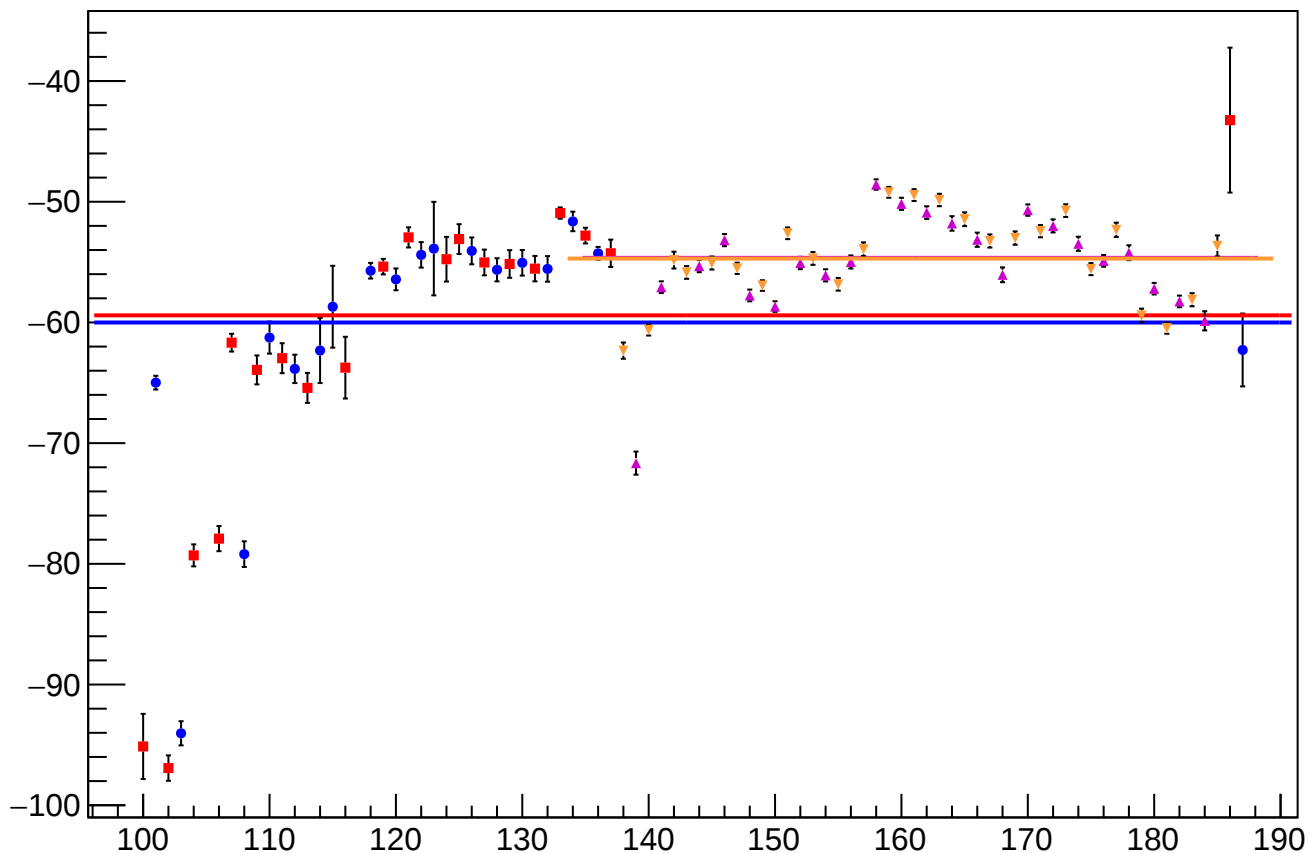
Right: -6.526+/-1.731 χ^2 /NDF: 22.9/1

In: 1.747+/-0.135 χ^2 /NDF:1304.5/23

Out: 1.561+/-0.133 χ^2 /NDF:1496.9/25

All: 1.653+/-0.095 χ^2 /NDF: 2802.4/49

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: -59.411 ± 0.212 χ^2/NDF : 2927.4/19

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

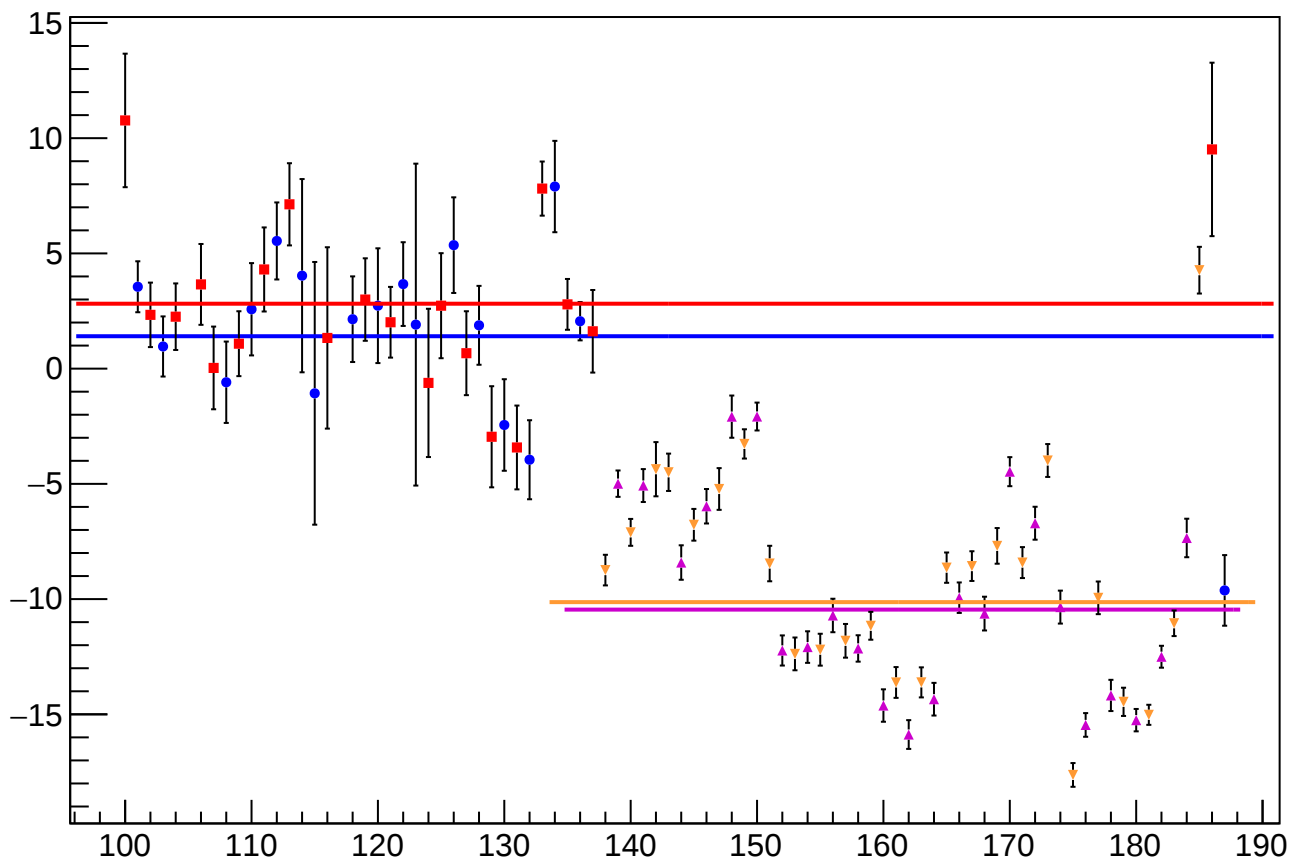
Right: -59.691 ± 0.154 χ^2/NDF : 4905.1/37

In: -55.683 ± 0.099 χ^2/NDF : 3510.1/40

Out: -55.643 ± 0.095 χ^2/NDF : 4447.7/44

All: -55.662 ± 0.068 χ^2/NDF : 7957.9/85

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: 2.817 ± 0.386 $\chi^2/\text{NDF}: 61.8/19$

Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$

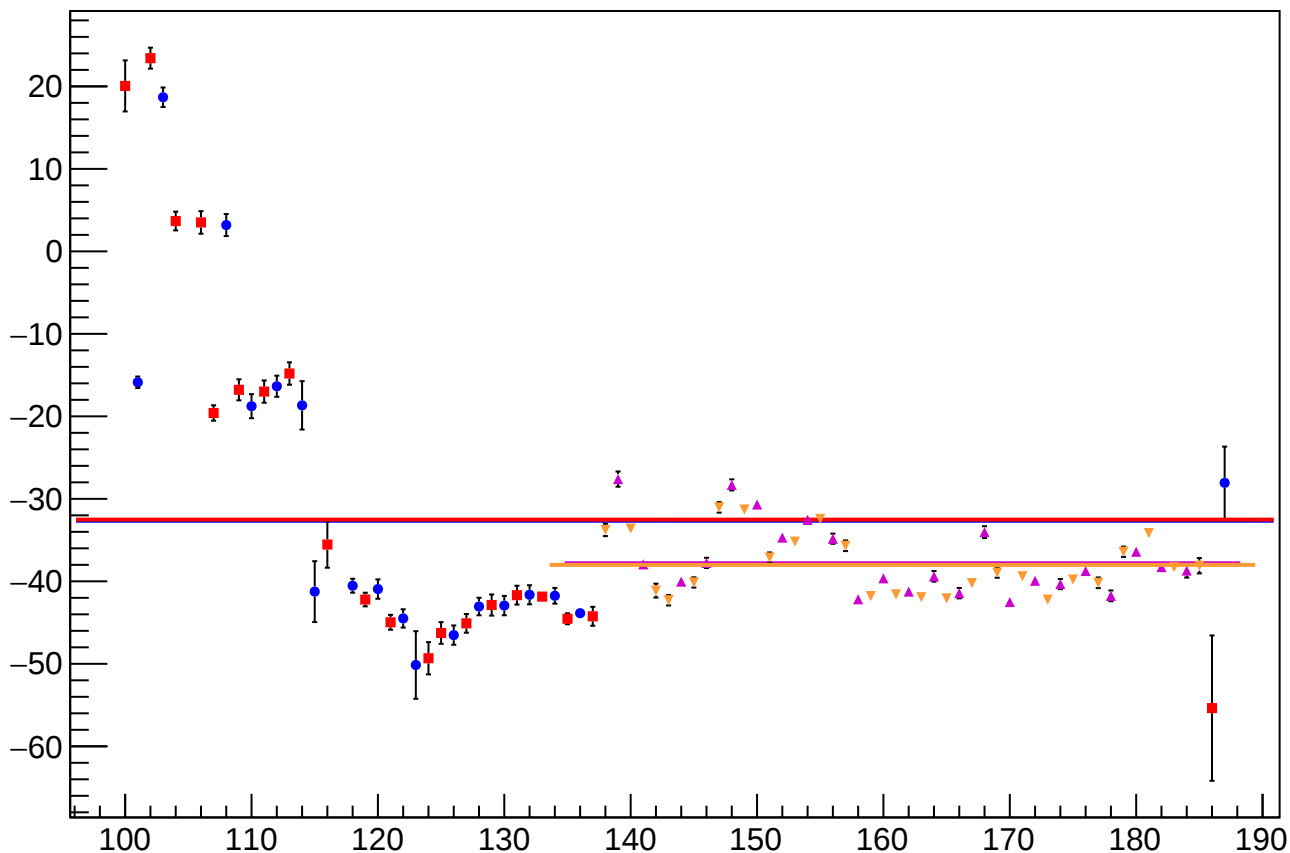
Right: 2.123 ± 0.275 $\chi^2/\text{NDF}: 163.0/37$

In: -9.207 ± 0.127 $\chi^2/\text{NDF}: 1914.4/40$

Out: -8.763 ± 0.126 $\chi^2/\text{NDF}: 2121.6/44$

All: -8.982 ± 0.089 $\chi^2/\text{NDF}: 4042.2/85$

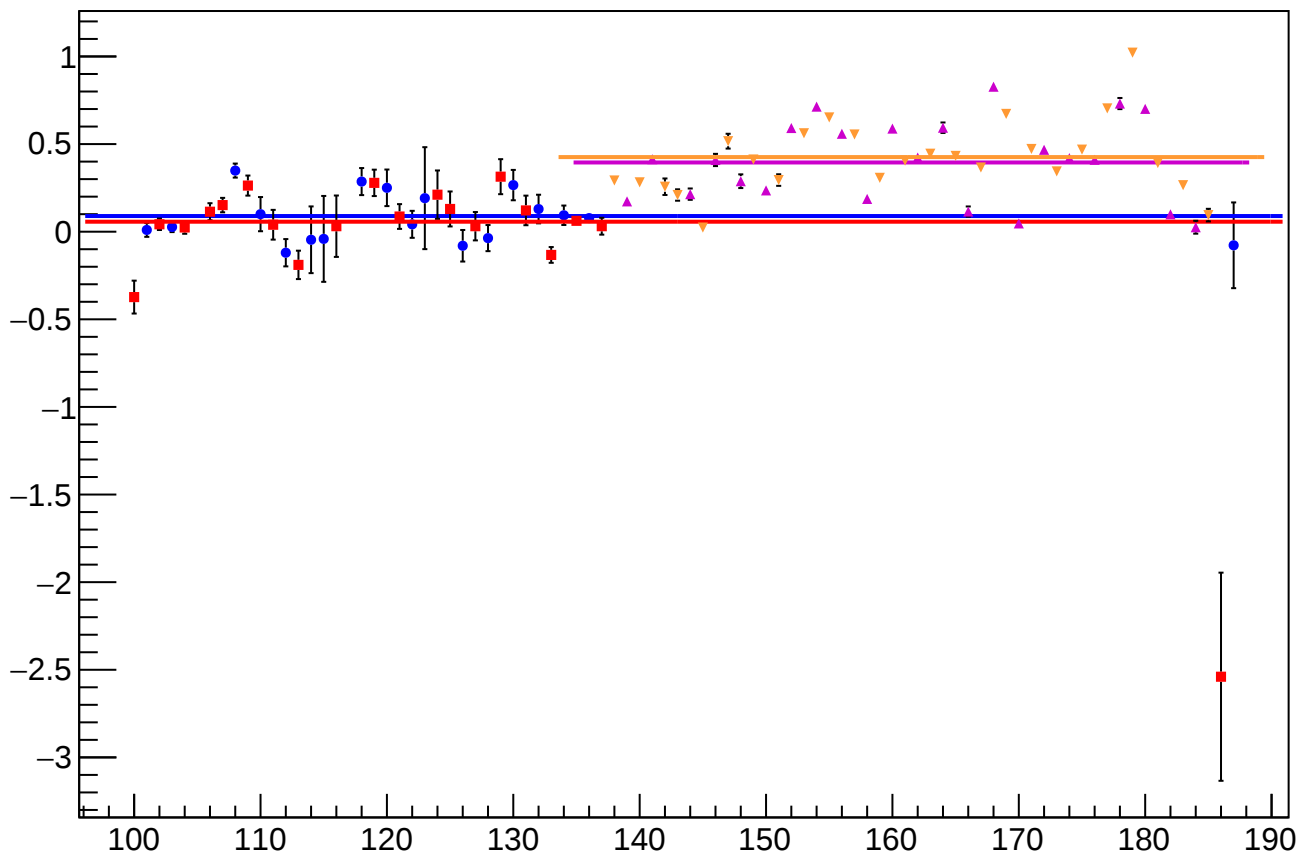
reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -32.655 ± 0.256 $\chi^2/\text{NDF}: 4643.7/17$
 Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$
 Right Out: -32.518 ± 0.244 $\chi^2/\text{NDF}: 6049.7/19$
 Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$
 Right: -32.583 ± 0.177 $\chi^2/\text{NDF}: 10693.6/37$
 In: -36.849 ± 0.110 $\chi^2/\text{NDF}: 6014.4/40$
 Out: -36.957 ± 0.107 $\chi^2/\text{NDF}: 7404.1/44$
 All: -36.905 ± 0.077 $\chi^2/\text{NDF}: 13419.0/85$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.089 ± 0.013 χ^2/NDF : 79.6/17

Left Out: 0.426 ± 0.005 χ^2/NDF : 1303.7/24

Right Out: 0.057 ± 0.012 χ^2/NDF : 106.1/19

Left In: 0.395 ± 0.005 χ^2/NDF : 1798.2/22

Left: 0.411 ± 0.004 χ^2/NDF : 3118.1/47

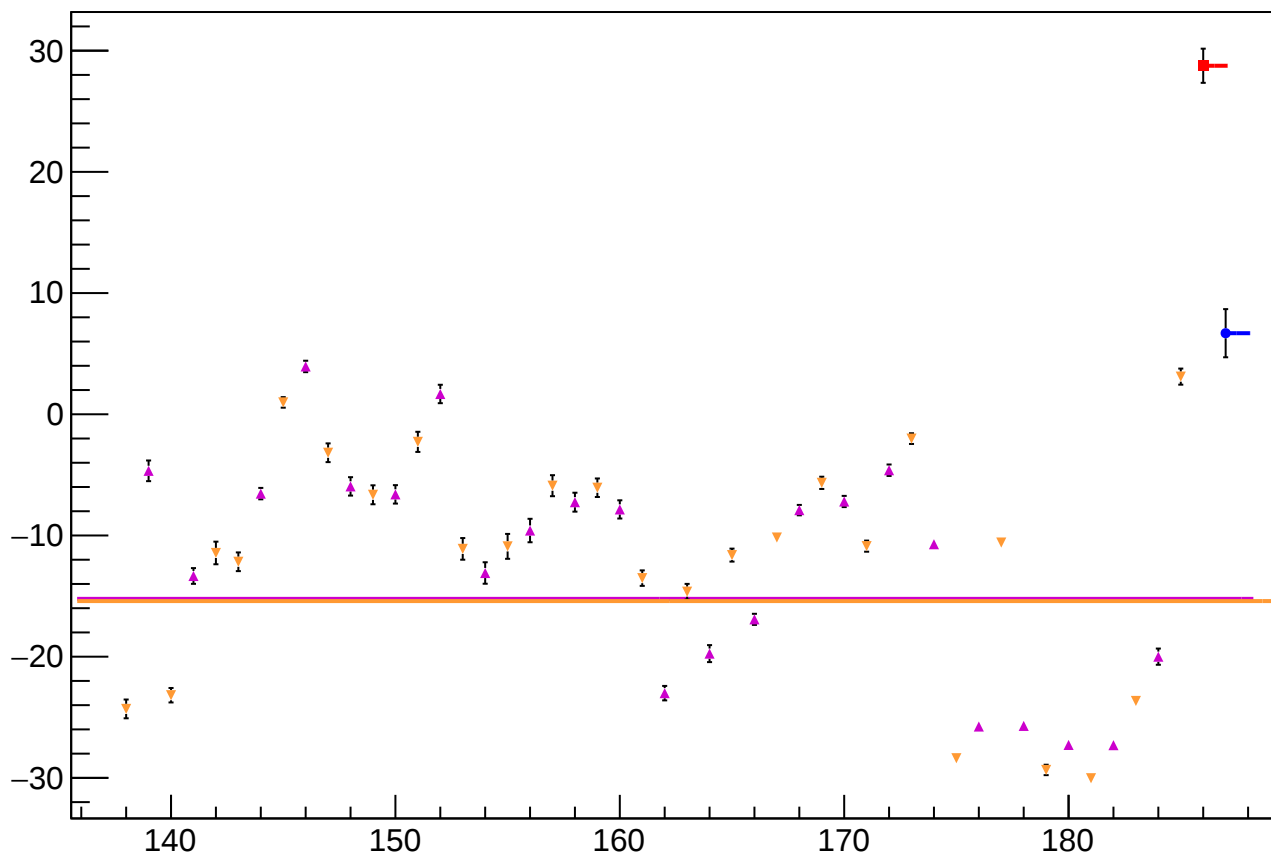
Right: 0.072 ± 0.009 χ^2/NDF : 189.0/37

In: 0.348 ± 0.005 χ^2/NDF : 2365.6/40

Out: 0.366 ± 0.005 χ^2/NDF : 2177.7/44

All: 0.357 ± 0.004 χ^2/NDF : 4549.5/85

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: 28.756+/-1.409 χ^2/NDF : 0.0/0

Left In: -15.229+/-0.107 χ^2/NDF :8657.3/22

Left: -15.322+/-0.075 χ^2/NDF : 19167.9/47

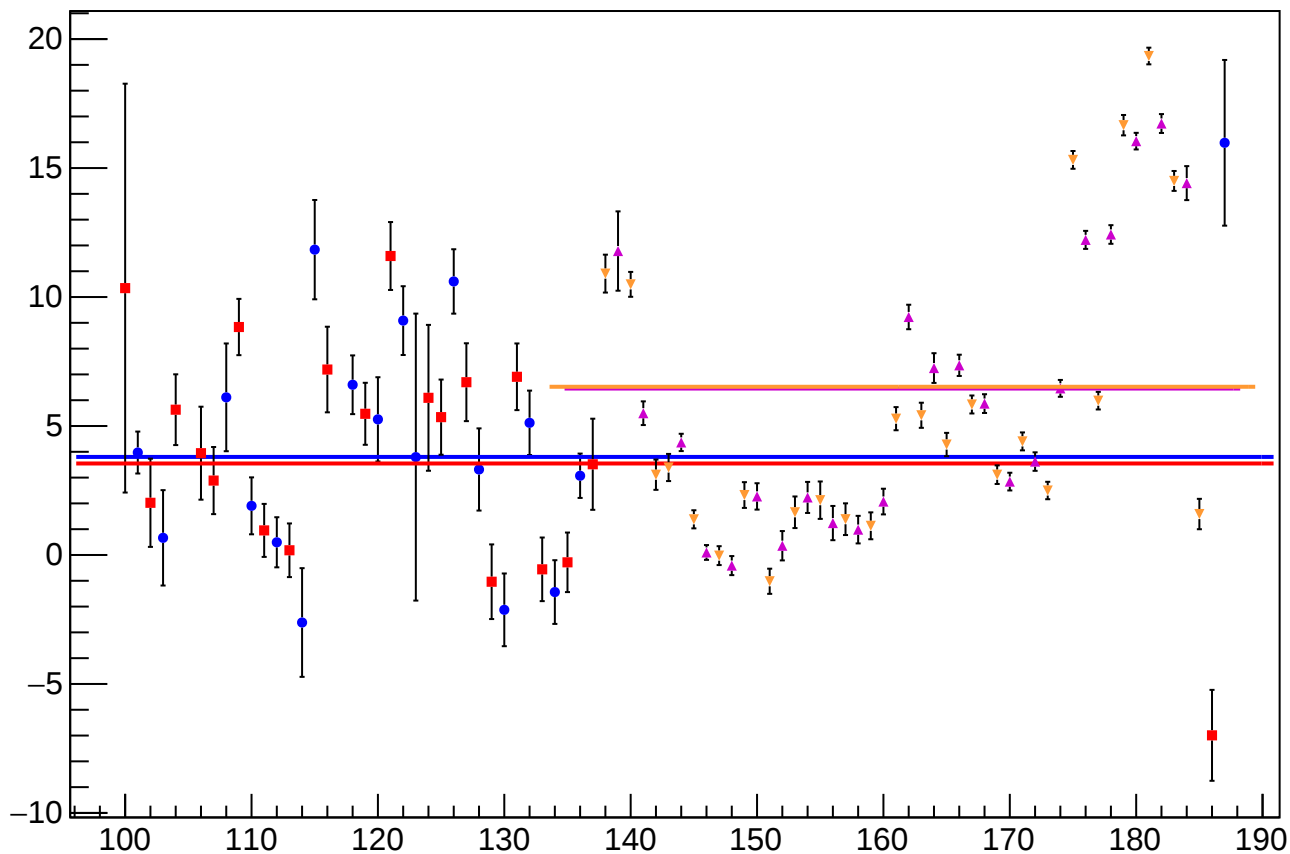
Right: 21.369+/-1.150 χ^2/NDF : 82.1/1

In: -15.166+/-0.107 χ^2/NDF :8778.7/23

Out: -15.168+/-0.105 χ^2/NDF :11485.7/25

All: -15.167+/-0.075 χ^2/NDF : 20264.4/49

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.801 ± 0.309 χ^2/NDF : 149.7/17

Left Out: 6.521 ± 0.085 χ^2/NDF : 4985.2/24

Right Out: 3.547 ± 0.312 χ^2/NDF : 170.6/19

Left In: 6.452 ± 0.086 χ^2/NDF : 3948.0/22

Left: 6.487 ± 0.061 χ^2/NDF : 8933.5/47

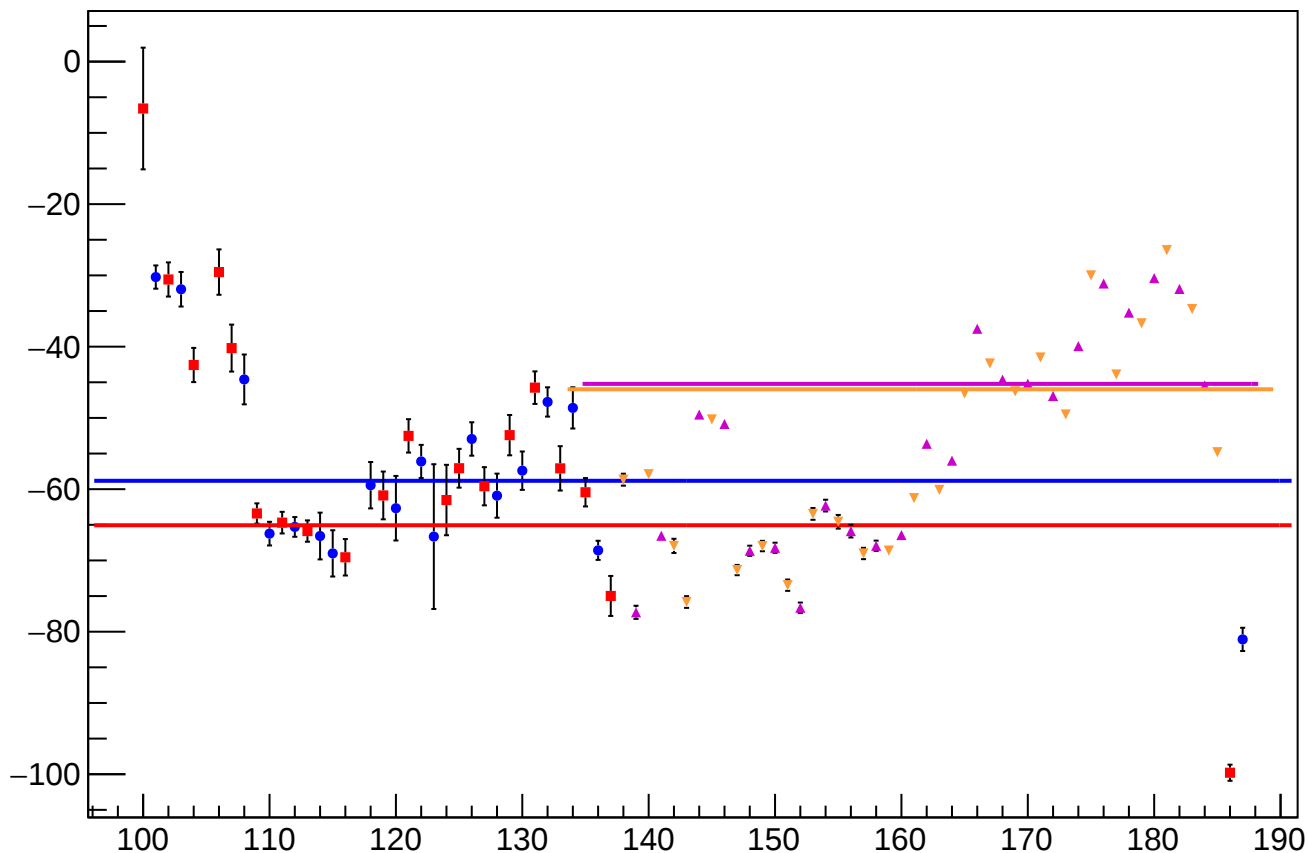
Right: 3.675 ± 0.220 χ^2/NDF : 320.6/37

In: 6.262 ± 0.083 χ^2/NDF : 4165.8/40

Out: 6.313 ± 0.082 χ^2/NDF : 5240.5/44

All: 6.288 ± 0.058 χ^2/NDF : 9406.4/85

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -58.823 ± 0.516 $\chi^2/\text{NDF}: 793.8/17$

Left Out: -45.982 ± 0.106 $\chi^2/\text{NDF}: 17360.1/24$

Right Out: -65.062 ± 0.485 $\chi^2/\text{NDF}: 1627.6/19$

Left In: -45.222 ± 0.107 $\chi^2/\text{NDF}: 15600.2/22$

Left: -45.605 ± 0.075 $\chi^2/\text{NDF}: 32985.7/47$

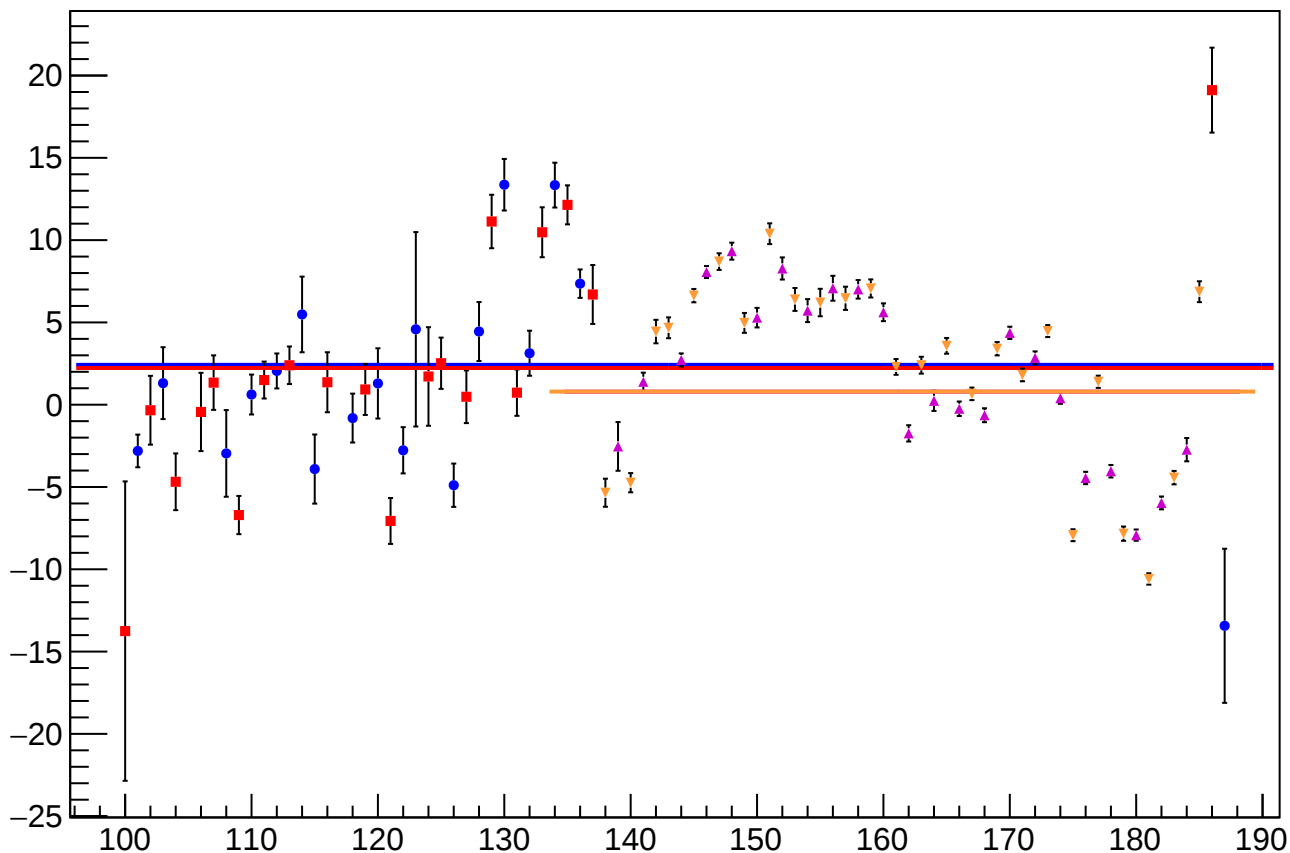
Right: -62.137 ± 0.354 $\chi^2/\text{NDF}: 2498.9/37$

In: -45.784 ± 0.105 $\chi^2/\text{NDF}: 17059.3/40$

Out: -46.855 ± 0.104 $\chi^2/\text{NDF}: 20463.8/44$

All: -46.326 ± 0.074 $\chi^2/\text{NDF}: 37575.8/85$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.421 $\pm$ 0.347 χ^2 /NDF: 253.8/17

Left Out: 0.797 $\pm$ 0.096 χ^2 /NDF: 3760.0/24

Right Out: 2.231 $\pm$ 0.352 χ^2 /NDF: 308.2/19

Left In: 0.792 $\pm$ 0.097 χ^2 /NDF: 2692.5/22

Left: 0.795 $\pm$ 0.068 χ^2 /NDF: 6452.5/47

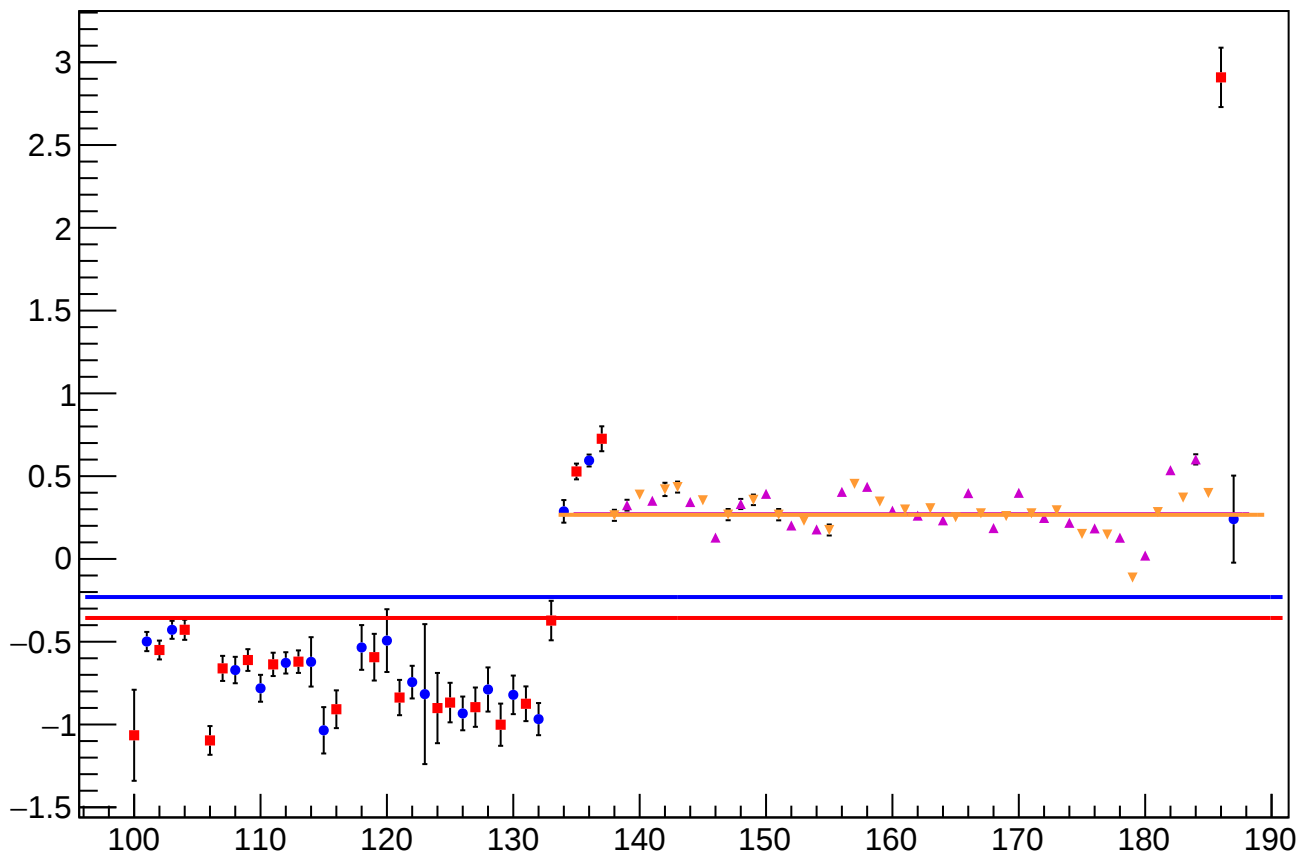
Right: 2.328 $\pm$ 0.247 χ^2 /NDF: 562.1/37

In: 0.909 $\pm$ 0.093 χ^2 /NDF: 2966.7/40

Out: 0.896 $\pm$ 0.092 χ^2 /NDF: 4083.6/44

All: 0.902 $\pm$ 0.065 χ^2 /NDF: 7050.3/85

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.230 $\pm$ 0.019 χ^2/NDF : 960.2/17

Left Out: 0.267 $\pm$ 0.004 χ^2/NDF : 699.8/24

Right Out: -0.357 $\pm$ 0.019 χ^2/NDF : 1179.7/19

Left In: 0.270 $\pm$ 0.004 χ^2/NDF : 969.9/22

Left: 0.268 $\pm$ 0.003 χ^2/NDF : 1670.1/47

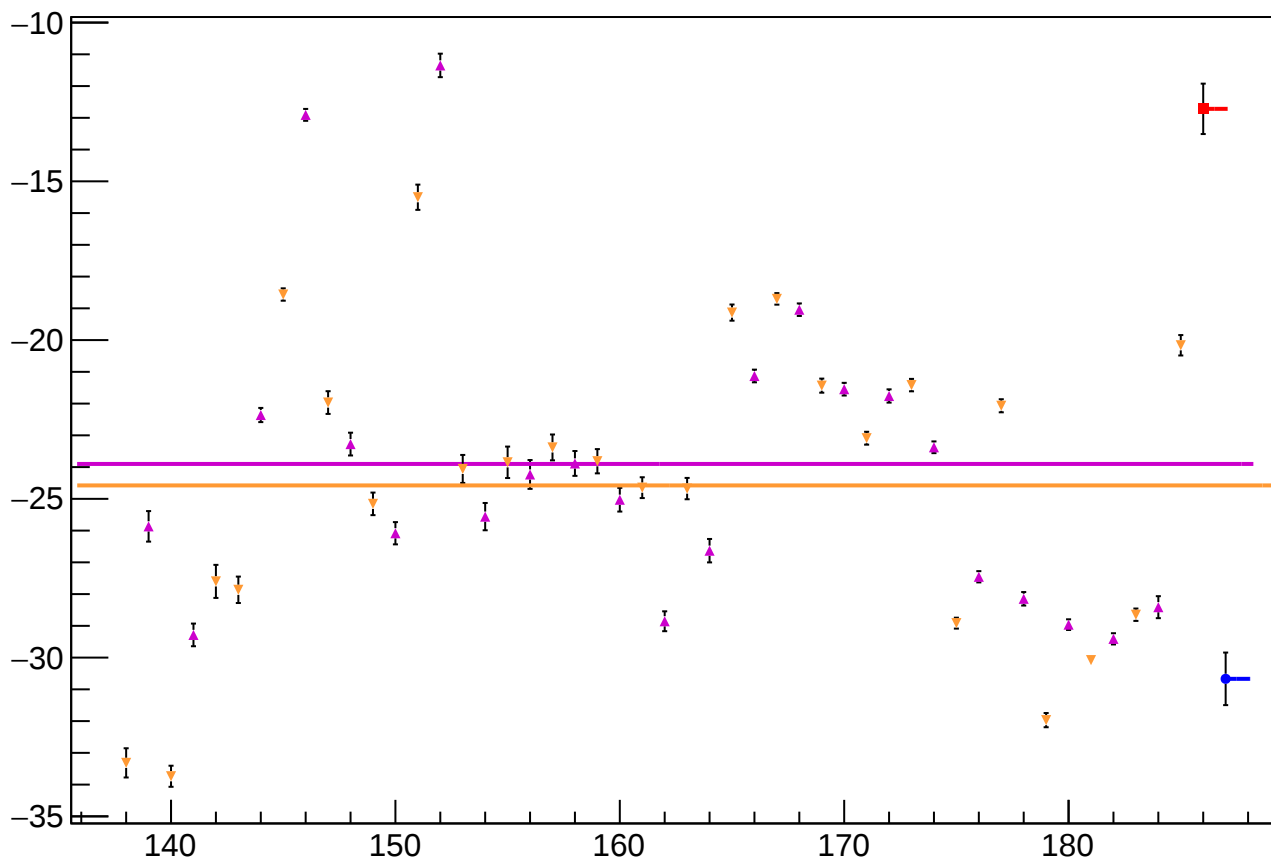
Right: -0.293 $\pm$ 0.013 χ^2/NDF : 2162.3/37

In: 0.244 $\pm$ 0.004 χ^2/NDF : 2596.8/40

Out: 0.235 $\pm$ 0.004 χ^2/NDF : 2911.8/44

All: 0.240 $\pm$ 0.003 χ^2/NDF : 5510.8/85

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: -12.717 ± 0.794 χ^2/NDF : 0.0/0

Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

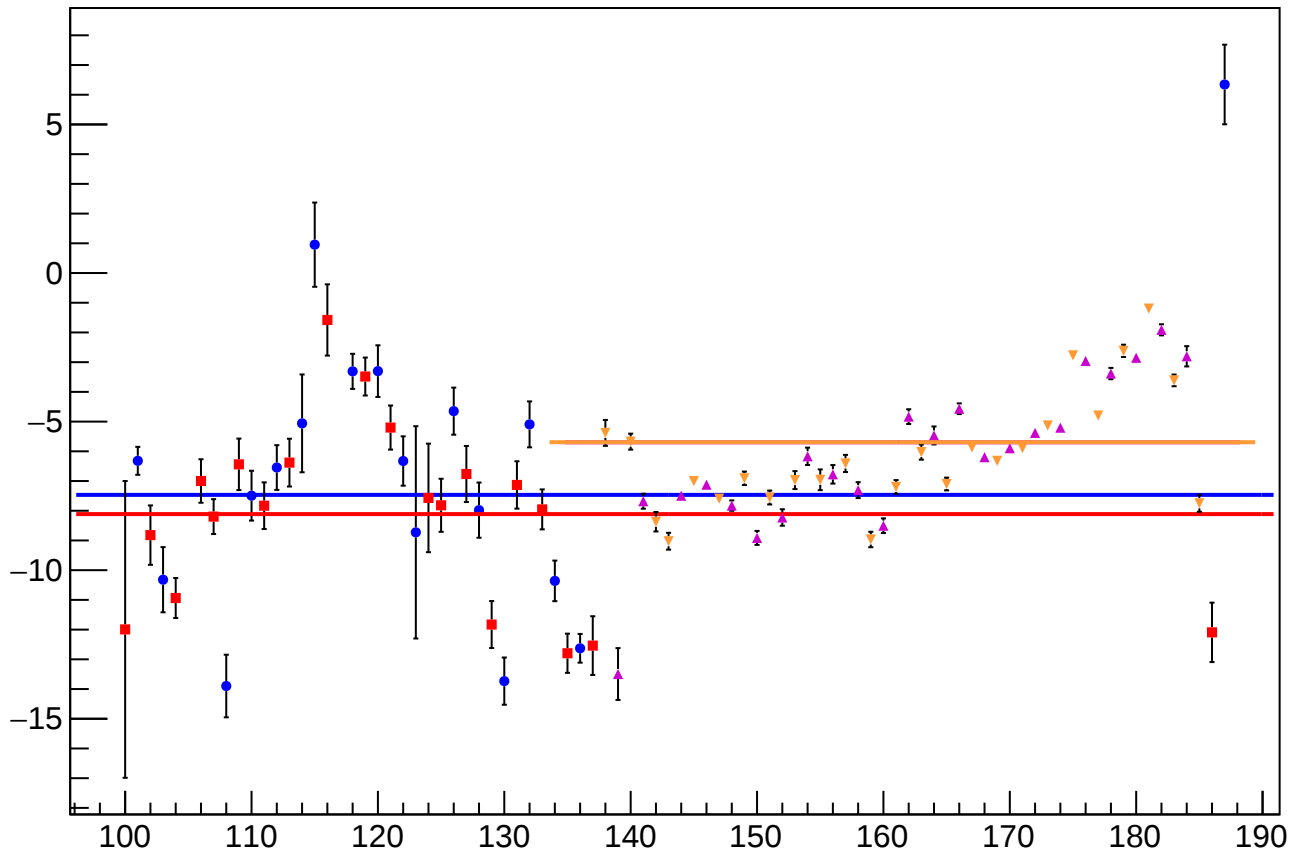
Right: -21.317 ± 0.573 χ^2/NDF : 245.1/1

In: -23.927 ± 0.051 χ^2/NDF : 9221.5/23

Out: -24.529 ± 0.051 χ^2/NDF : 8812.8/25

All: -24.228 ± 0.036 χ^2/NDF : 18104.1/49

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: -8.113 ± 0.183 χ^2/NDF : 239.5/19

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

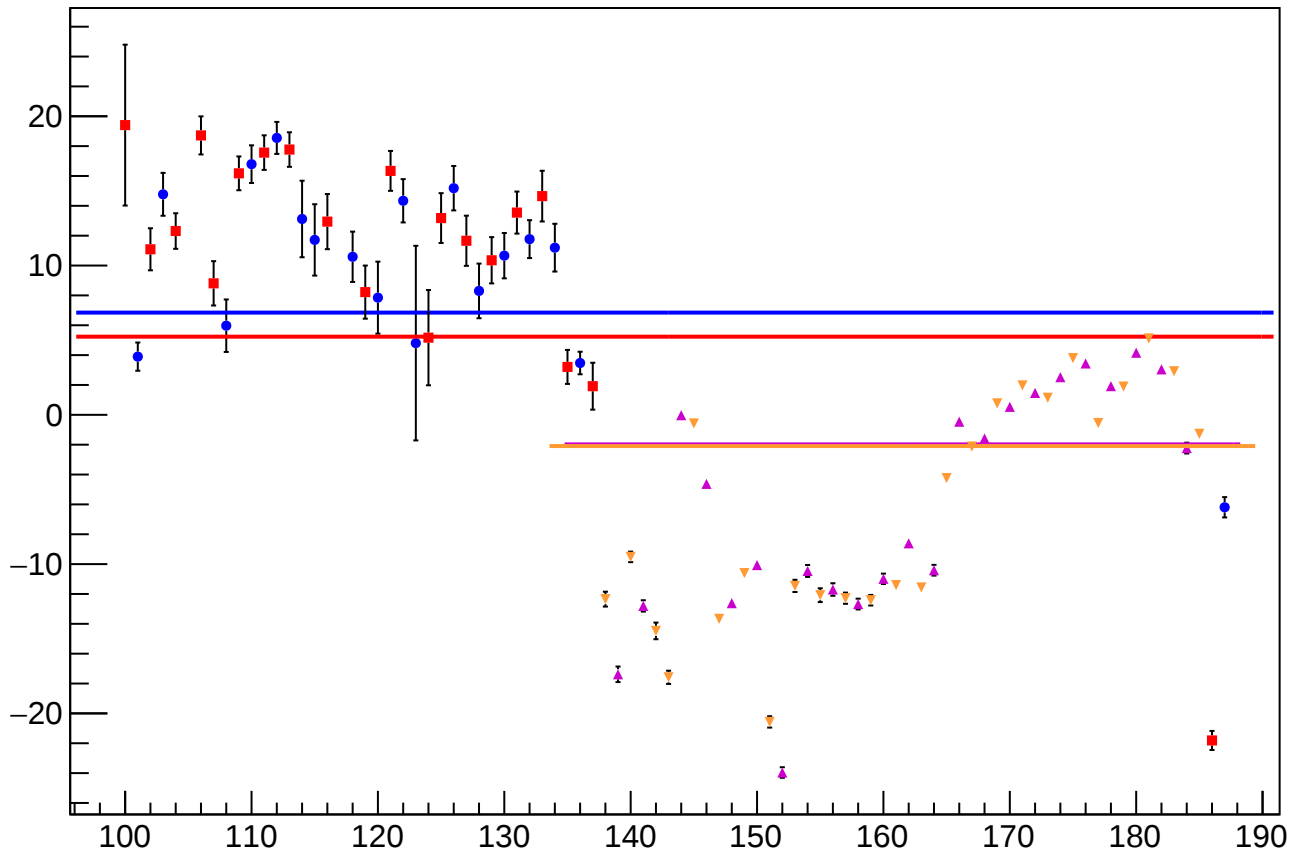
Right: -7.794 ± 0.130 χ^2/NDF : 732.1/37

In: -5.778 ± 0.040 χ^2/NDF : 2882.9/40

Out: -5.810 ± 0.040 χ^2/NDF : 2664.2/44

All: -5.794 ± 0.028 χ^2/NDF : 5547.4/85

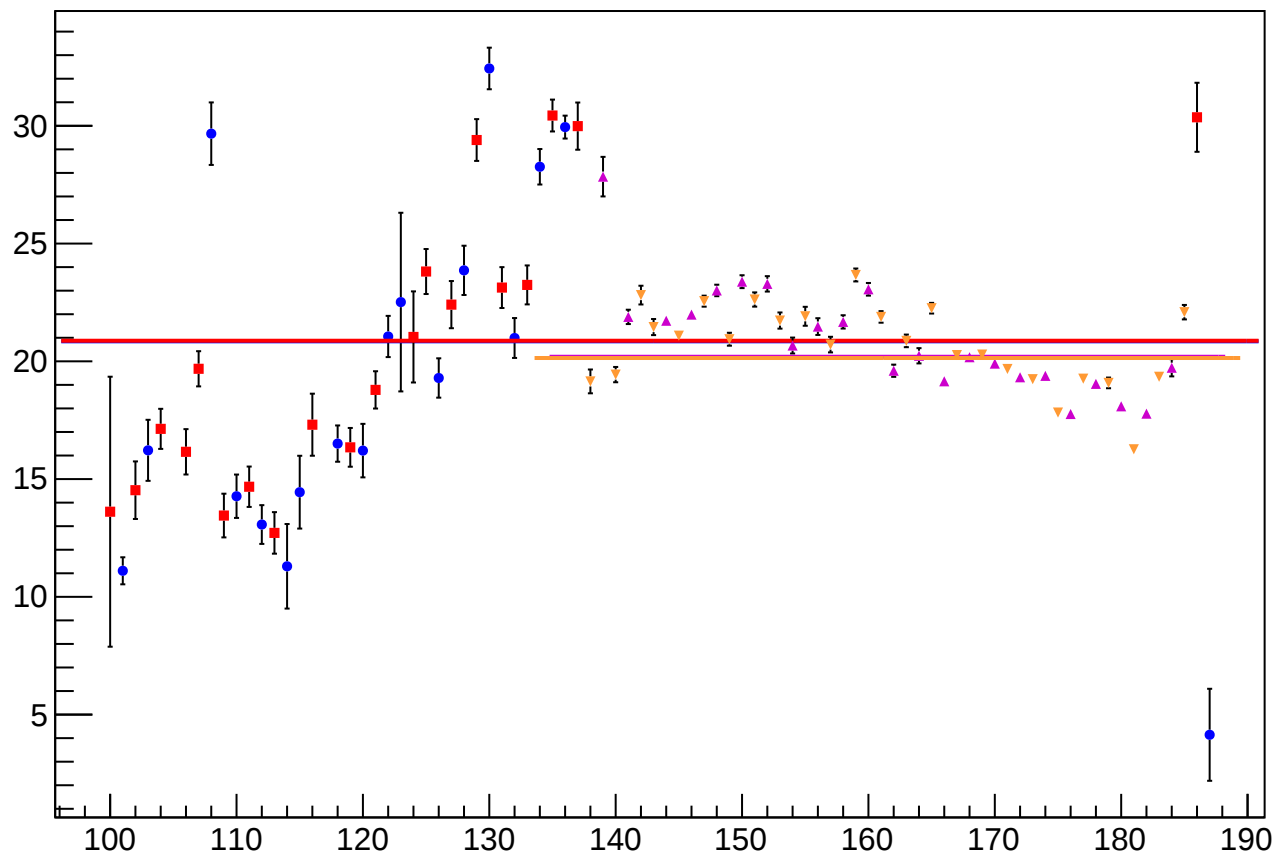
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



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: 5.236 ± 0.295 $\chi^2/\text{NDF}: 2514.1/19$
 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: 6.021 ± 0.211 $\chi^2/\text{NDF}: 3240.7/37$
 In: -1.735 ± 0.051 $\chi^2/\text{NDF}: 16919.4/40$
 Out: -1.876 ± 0.051 $\chi^2/\text{NDF}: 19417.2/44$
 All: -1.805 ± 0.036 $\chi^2/\text{NDF}: 36340.5/85$

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: 20.874 $\pm$ 0.211 χ^2 /NDF: 764.4/19

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

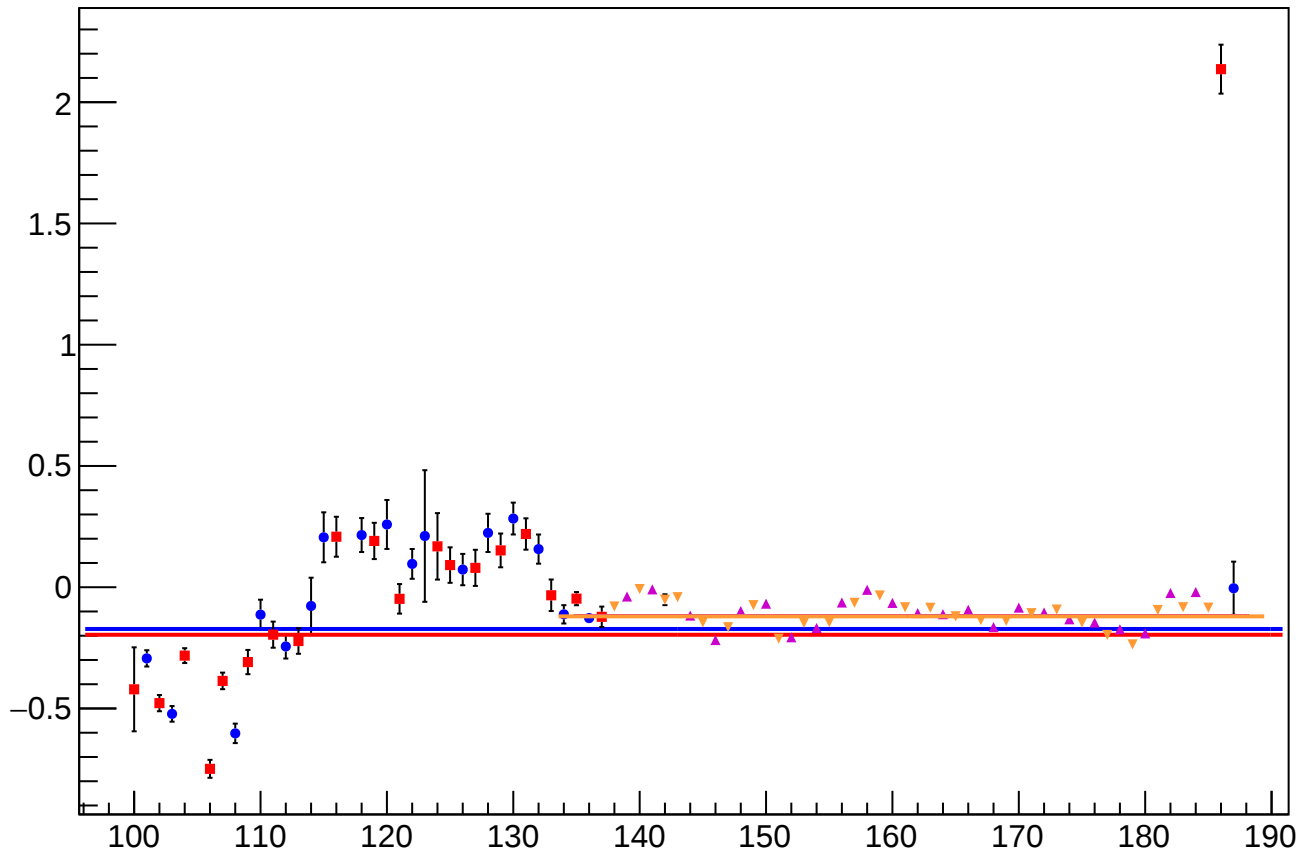
Right: 20.862 $\pm$ 0.149 χ^2 /NDF: 2047.8/37

In: 20.224 $\pm$ 0.045 χ^2 /NDF:2740.0/40

Out: 20.174 $\pm$ 0.045 χ^2 /NDF:2195.1/44

All: 20.199 $\pm$ 0.032 χ^2 /NDF: 4935.8/85

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.172 ± 0.011 $\chi^2/\text{NDF}: 460.6/17$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.196 ± 0.011 $\chi^2/\text{NDF}: 1073.0/19$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

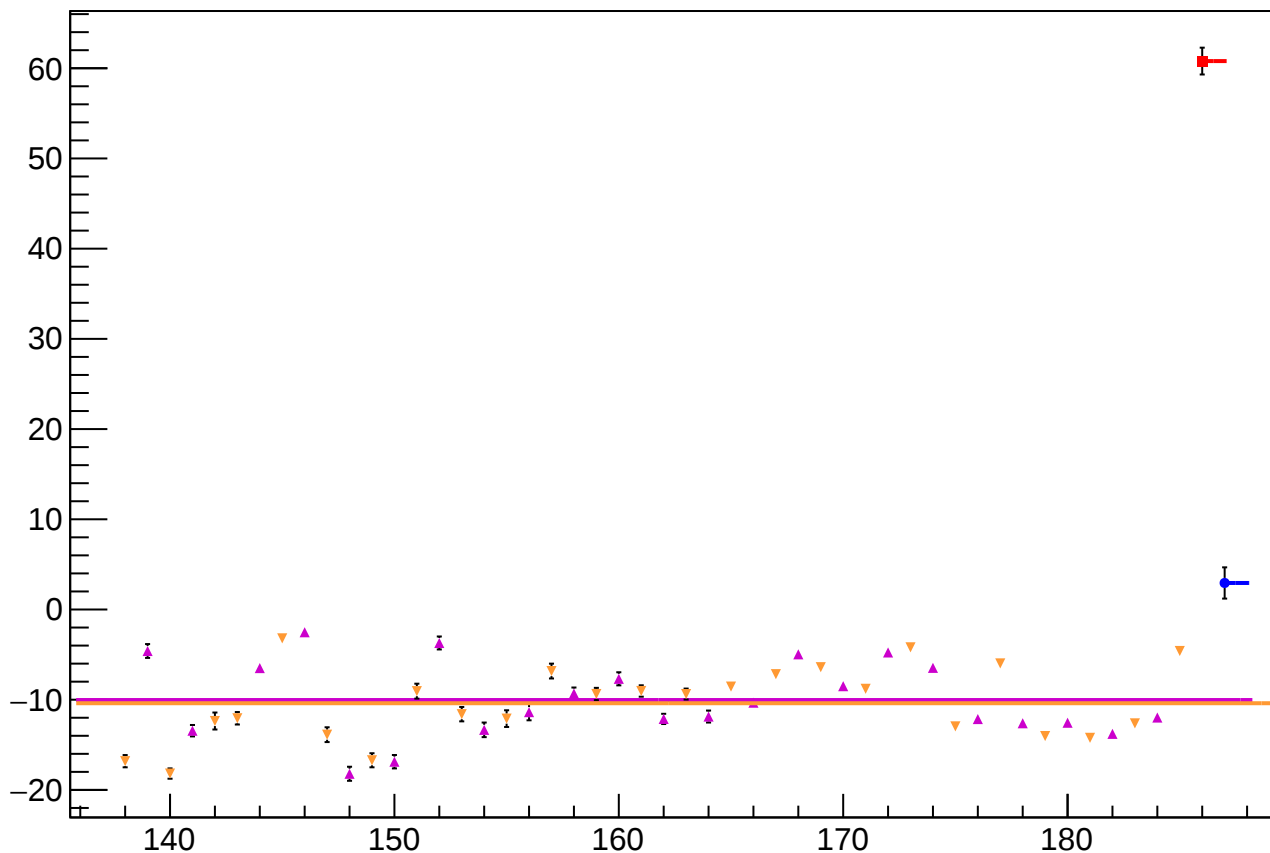
Right: -0.184 ± 0.008 $\chi^2/\text{NDF}: 1536.0/37$

In: -0.120 ± 0.002 $\chi^2/\text{NDF}: 1204.5/40$

Out: -0.123 ± 0.002 $\chi^2/\text{NDF}: 1650.2/44$

All: -0.122 ± 0.001 $\chi^2/\text{NDF}: 2855.3/85$

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: 60.793+/-1.487 χ^2/NDF : 0.0/0

Left In: -10.036+/-0.090 χ^2/NDF :1758.7/22

Left: -10.217+/-0.063 χ^2/NDF : 3878.3/47

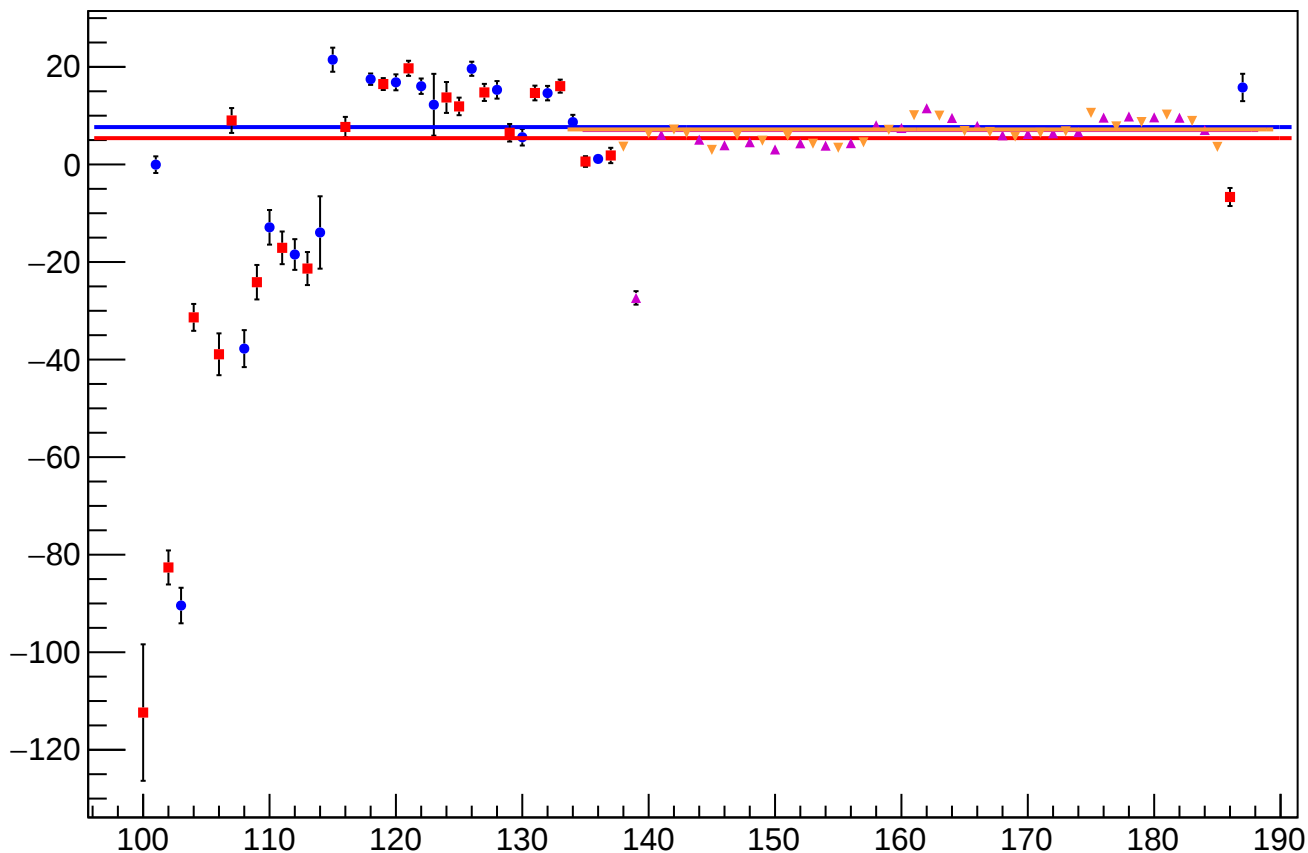
Right: 36.256+/-1.128 χ^2/NDF : 642.4/1

In: -10.001+/-0.089 χ^2/NDF :1814.6/23

Out: -10.143+/-0.088 χ^2/NDF :4396.5/25

All: -10.074+/-0.063 χ^2/NDF : 6212.5/49

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.660 $\pm$ 0.403 χ^2 /NDF: 1349.1/17

Left Out: 7.184 $\pm$ 0.073 χ^2 /NDF:917.3/24

Right Out: 5.394 $\pm$ 0.423 χ^2 /NDF: 1556.8/19

Left In: 7.053 $\pm$ 0.074 χ^2 /NDF:1535.8/22

Left: 7.119 $\pm$ 0.052 χ^2 /NDF: 2454.8/47

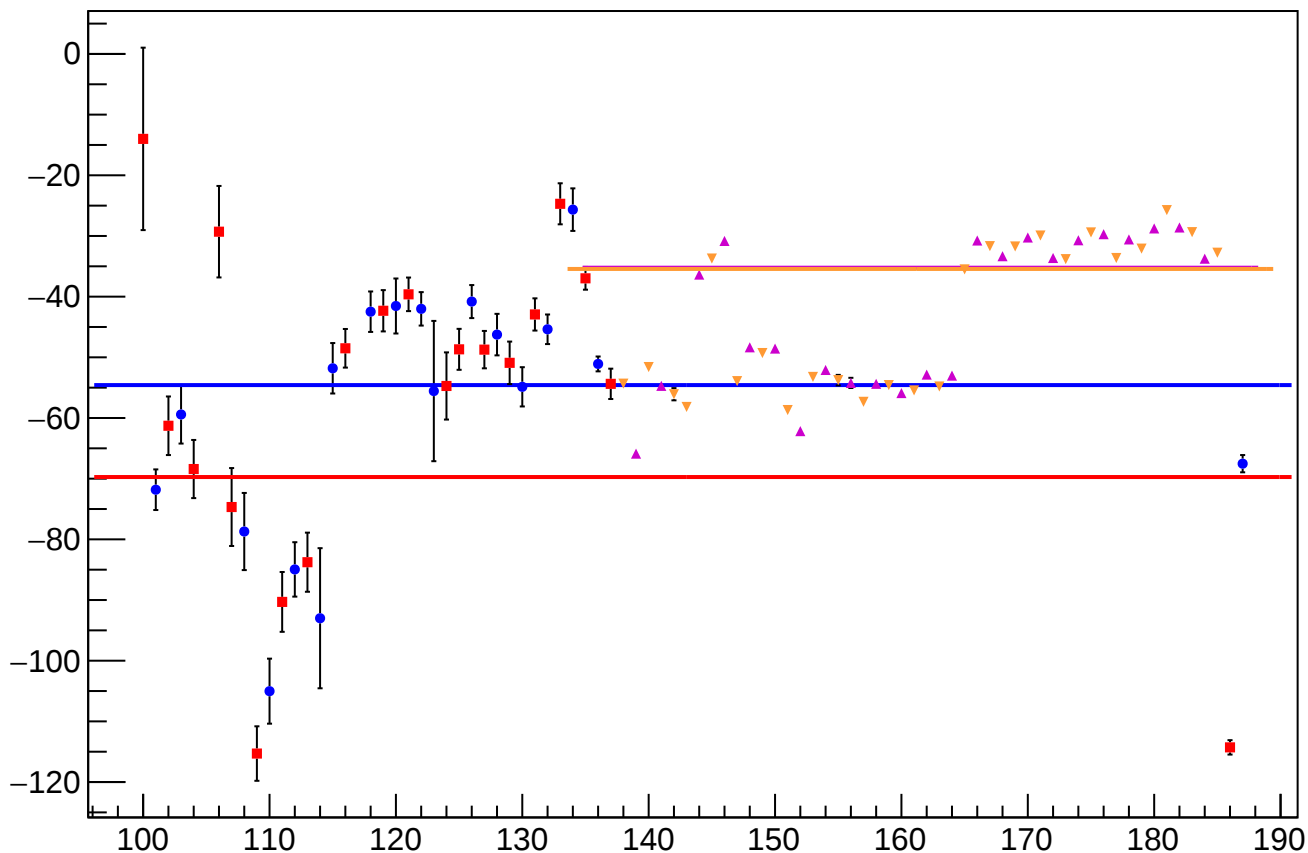
Right: 6.584 $\pm$ 0.292 χ^2 /NDF: 2921.0/37

In: 7.073 $\pm$ 0.073 χ^2 /NDF:2887.2/40

Out: 7.132 $\pm$ 0.072 χ^2 /NDF:2491.5/44

All: 7.102 $\pm$ 0.051 χ^2 /NDF: 5379.0/85

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -54.576 ± 0.658 χ^2/NDF : 434.9/17

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -69.729 ± 0.664 χ^2/NDF : 2553.1/19

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

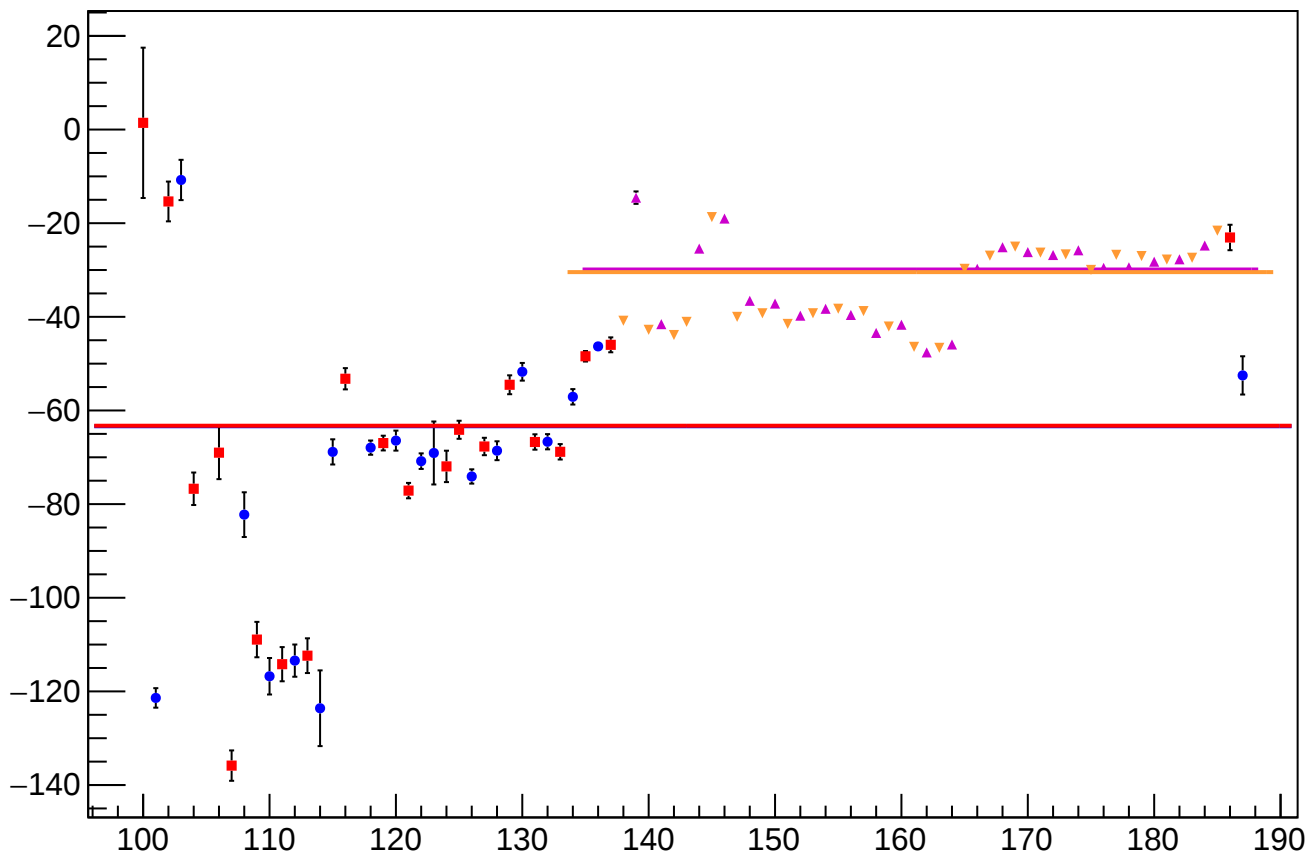
Right: -62.087 ± 0.467 χ^2/NDF : 3251.0/37

In: -35.585 ± 0.089 χ^2/NDF : 12886.8/40

Out: -36.040 ± 0.088 χ^2/NDF : 17960.0/44

All: -35.815 ± 0.063 χ^2/NDF : 30859.9/85

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: -63.259 ± 0.476 χ^2/NDF : 1830.1/19

Left In: -29.892 ± 0.083 χ^2/NDF : 7115.0/22

Left: -30.174 ± 0.058 χ^2/NDF : 15305.7/47

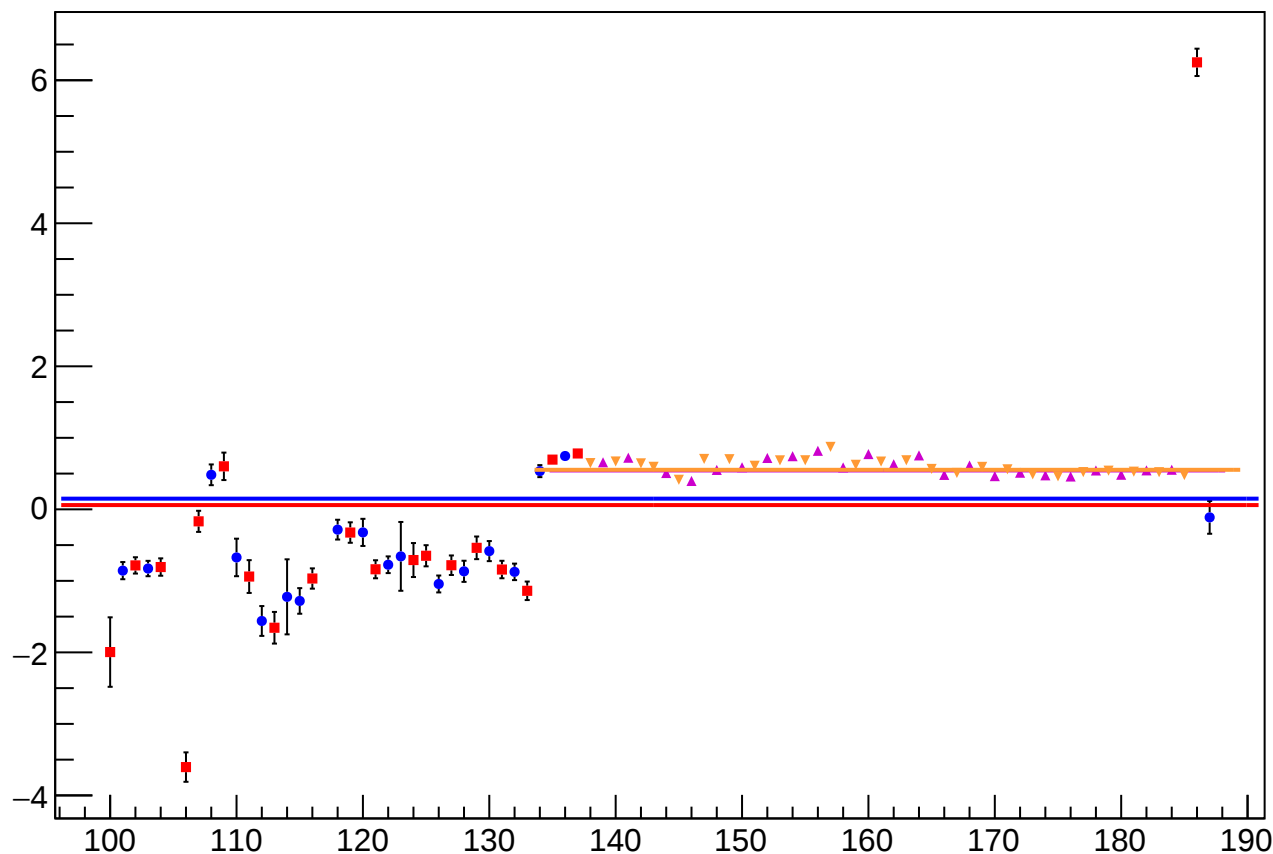
Right: -63.318 ± 0.326 χ^2/NDF : 3843.6/37

In: -30.999 ± 0.081 χ^2/NDF : 14563.5/40

Out: -31.382 ± 0.080 χ^2/NDF : 14607.2/44

All: -31.192 ± 0.057 χ^2/NDF : 29181.9/85

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: 0.060 $\pm$ 0.026 χ^2 /NDF: 2228.9/19

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

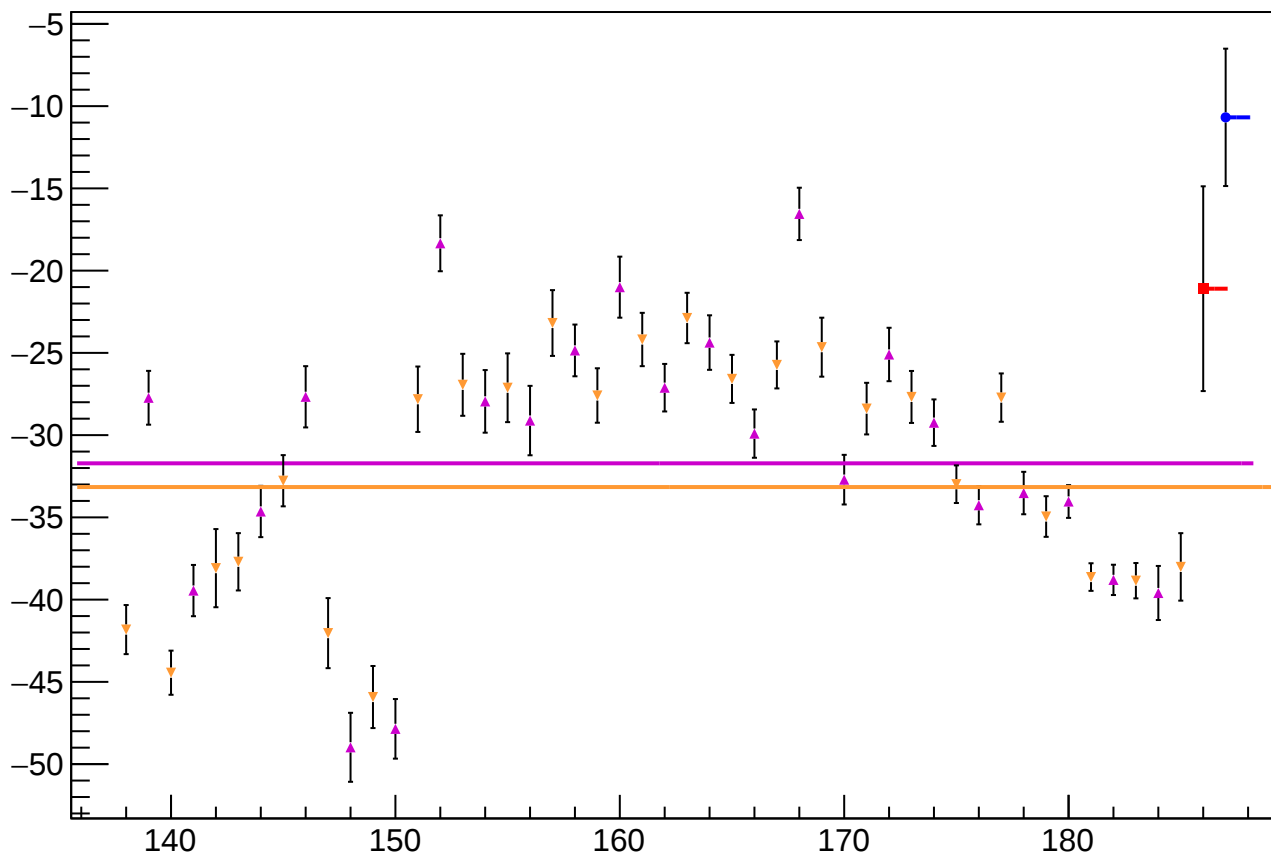
Right: 0.108 $\pm$ 0.018 χ^2 /NDF: 3224.0/37

In: 0.534 $\pm$ 0.004 χ^2 /NDF:1909.6/40

Out: 0.543 $\pm$ 0.004 χ^2 /NDF:3121.7/44

All: 0.539 $\pm$ 0.003 χ^2 /NDF: 5034.2/85

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.682 ± 4.176 χ^2/NDF : 0.0/0

Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24

Right Out: -21.098 ± 6.224 χ^2/NDF : 0.0/0

Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47

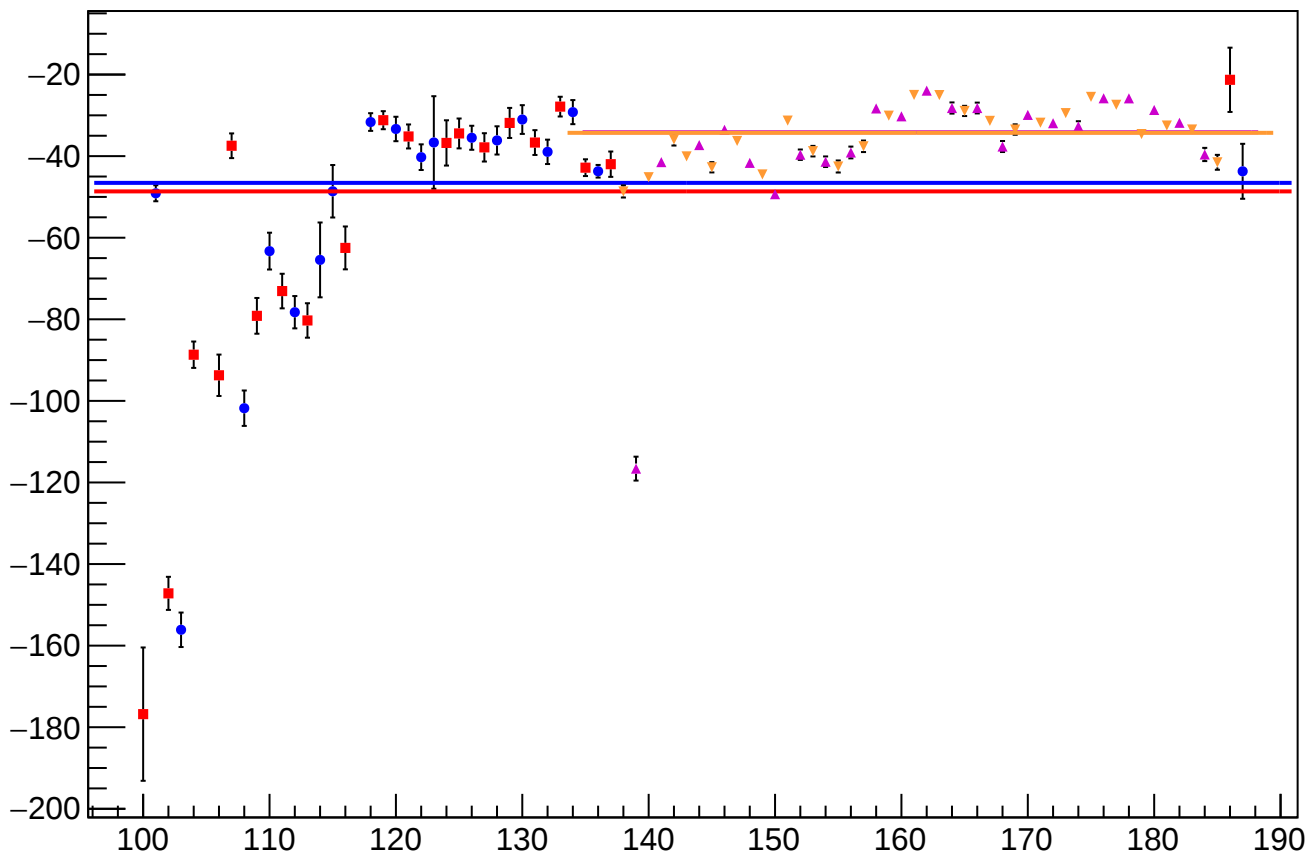
Right: -13.914 ± 3.468 χ^2/NDF : 1.9/1

In: -31.600 ± 0.308 χ^2/NDF : 567.5/23

Out: -33.129 ± 0.300 χ^2/NDF : 503.8/25

All: -32.385 ± 0.215 χ^2/NDF : 1084.0/49

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -46.554 ± 0.726 $\chi^2/\text{NDF}: 1076.2/17$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -48.646 ± 0.761 $\chi^2/\text{NDF}: 1289.8/19$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

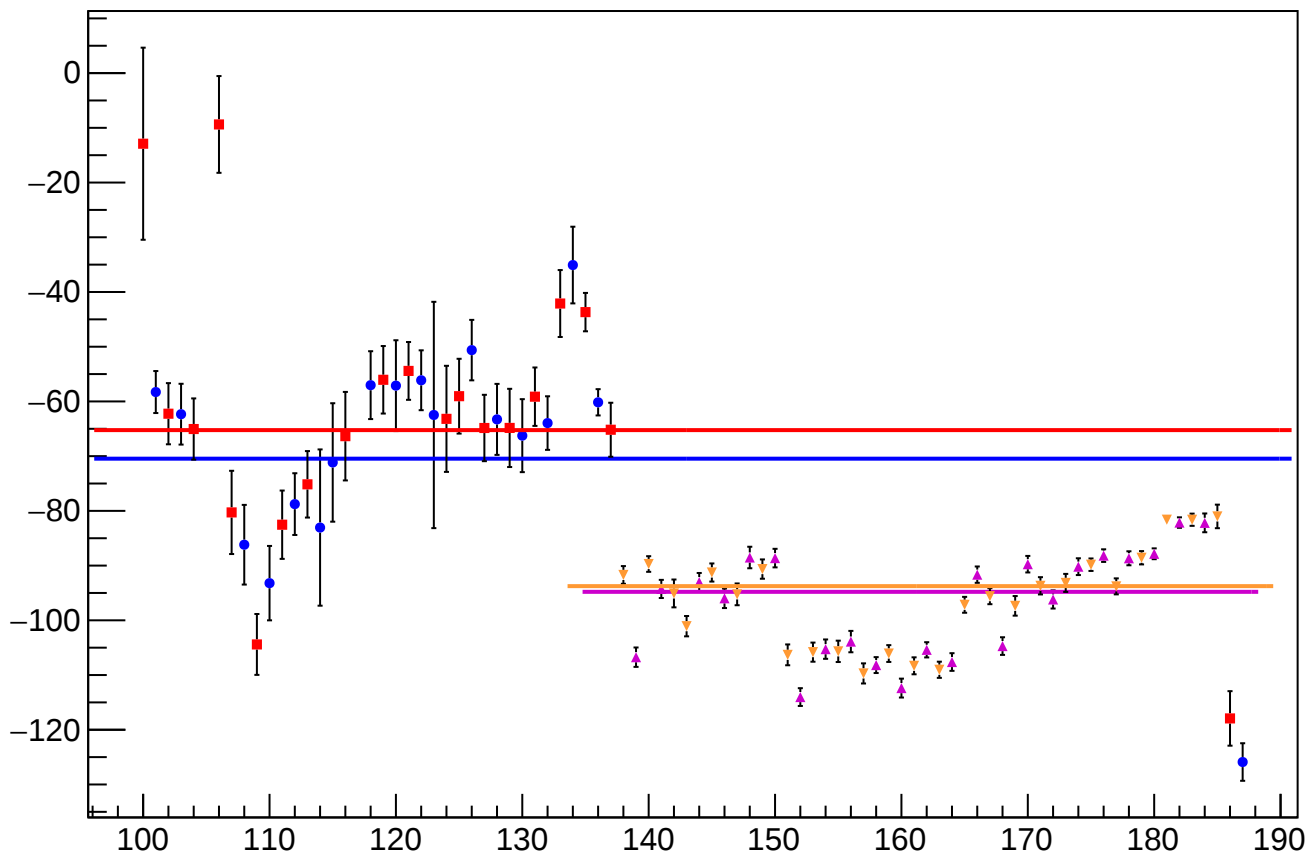
Right: -47.551 ± 0.525 $\chi^2/\text{NDF}: 2370.0/37$

In: -35.467 ± 0.237 $\chi^2/\text{NDF}: 2789.7/40$

Out: -35.601 ± 0.230 $\chi^2/\text{NDF}: 2308.7/44$

All: -35.536 ± 0.165 $\chi^2/\text{NDF}: 5098.5/85$

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: -65.241 ± 1.333 $\chi^2/\text{NDF}: 285.5/19$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

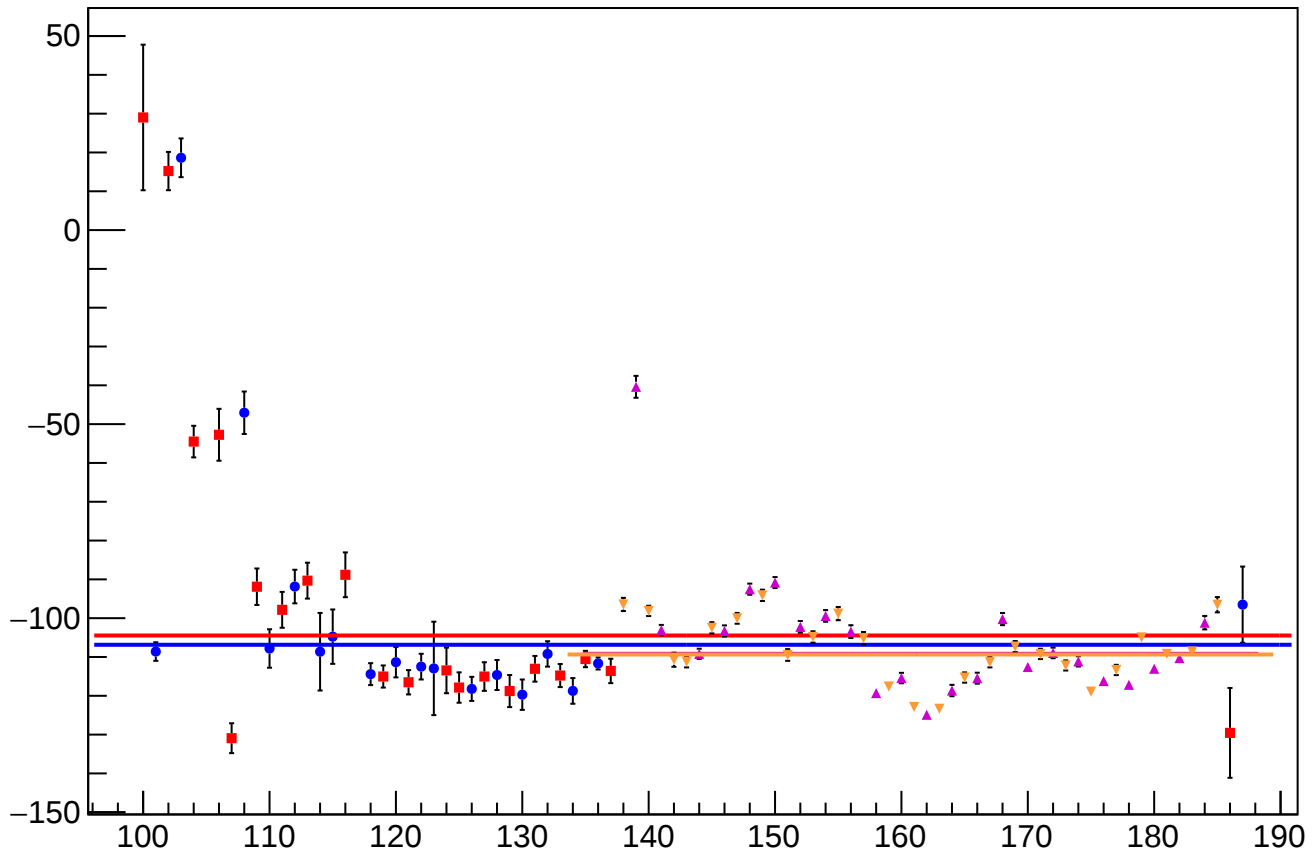
Right: -68.060 ± 0.904 $\chi^2/\text{NDF}: 660.2/37$

In: -93.356 ± 0.299 $\chi^2/\text{NDF}: 1709.6/40$

Out: -92.364 ± 0.294 $\chi^2/\text{NDF}: 1604.0/44$

All: -92.851 ± 0.210 $\chi^2/\text{NDF}: 3319.2/85$

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: -104.464 ± 0.860 $\chi^2/\text{NDF}: 1025.2/19$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

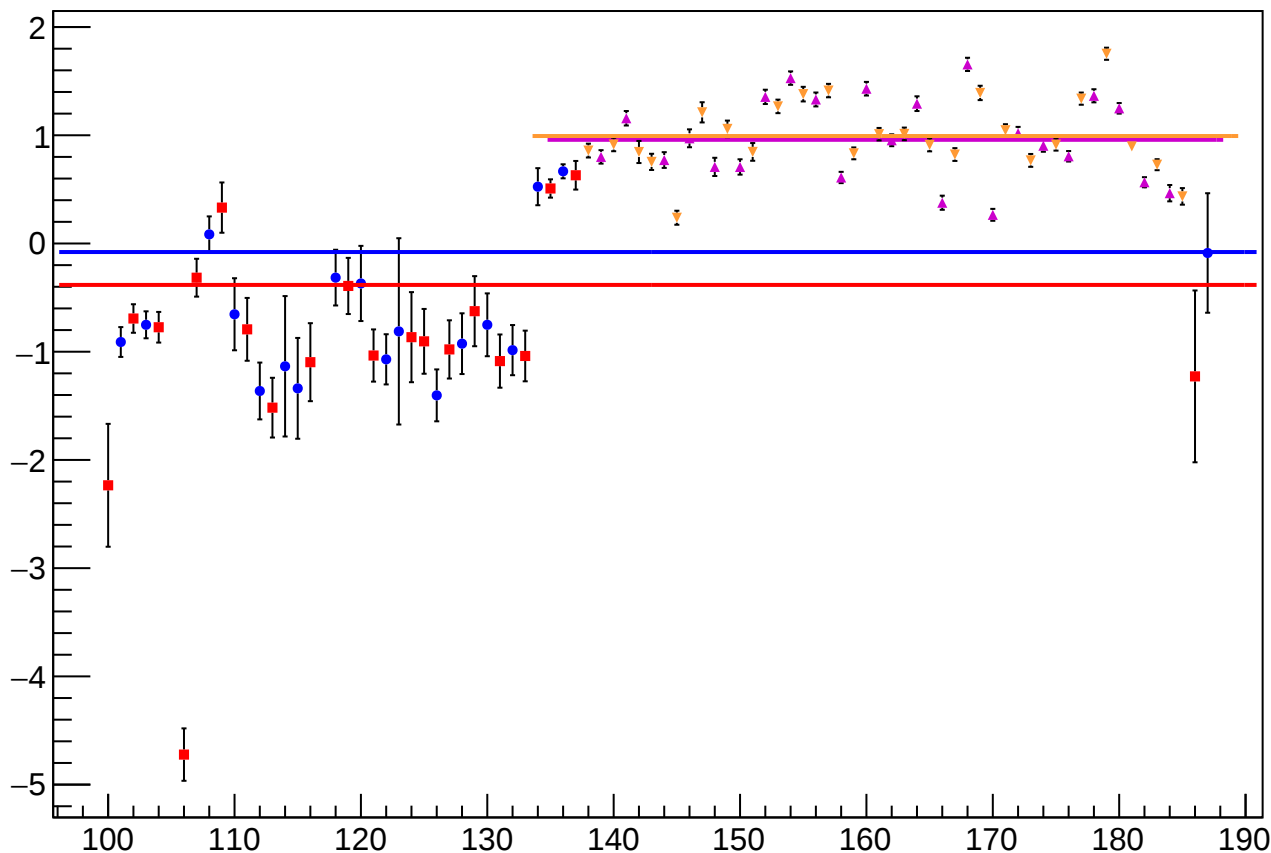
Right: -105.723 ± 0.592 $\chi^2/\text{NDF}: 1857.1/37$

In: -108.938 ± 0.265 $\chi^2/\text{NDF}: 2336.3/40$

Out: -108.910 ± 0.259 $\chi^2/\text{NDF}: 1881.4/44$

All: -108.924 ± 0.185 $\chi^2/\text{NDF}: 4217.7/85$

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: -0.383 ± 0.044 χ^2/NDF : 581.3/19

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

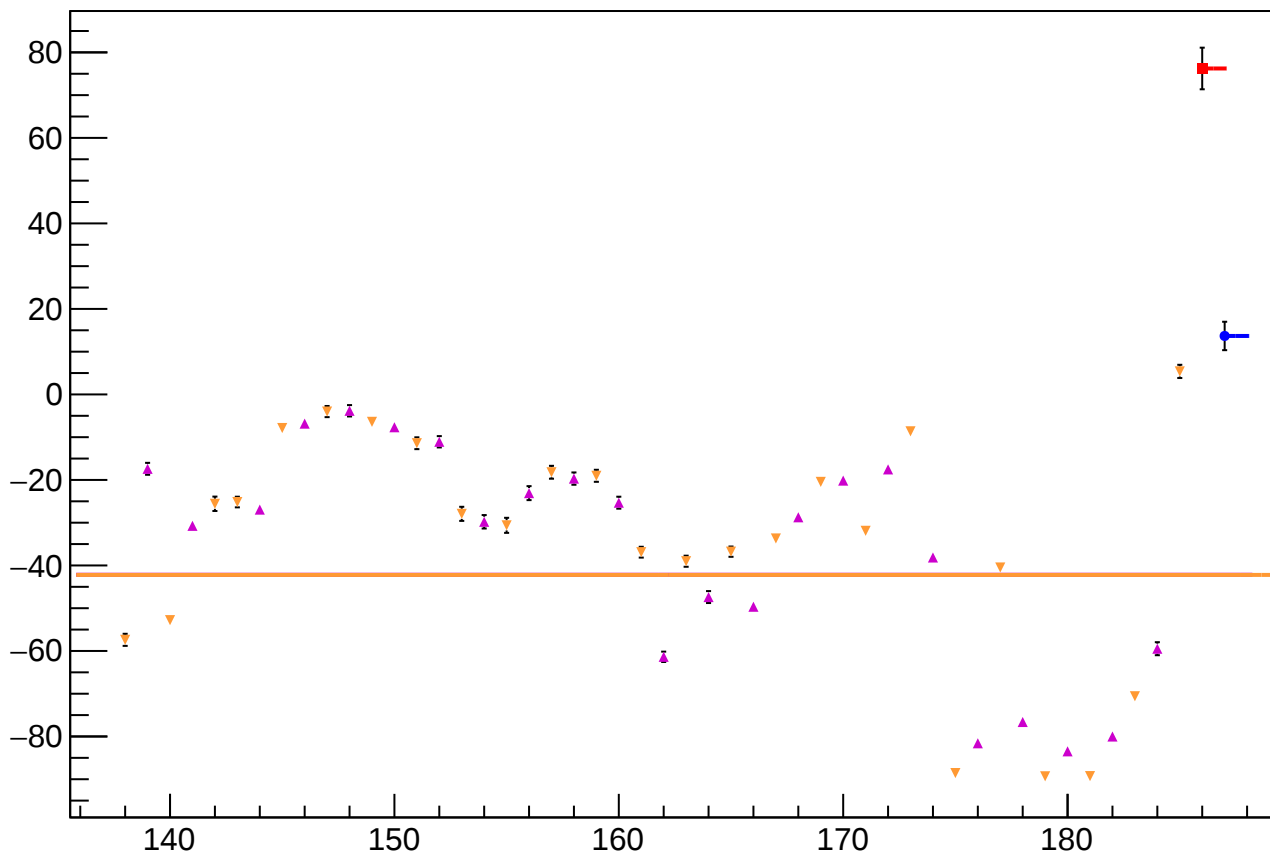
Right: -0.224 ± 0.030 χ^2/NDF : 934.8/37

In: 0.872 ± 0.012 χ^2/NDF : 1777.6/40

Out: 0.891 ± 0.012 χ^2/NDF : 2126.4/44

All: 0.882 ± 0.009 χ^2/NDF : 3905.2/85

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



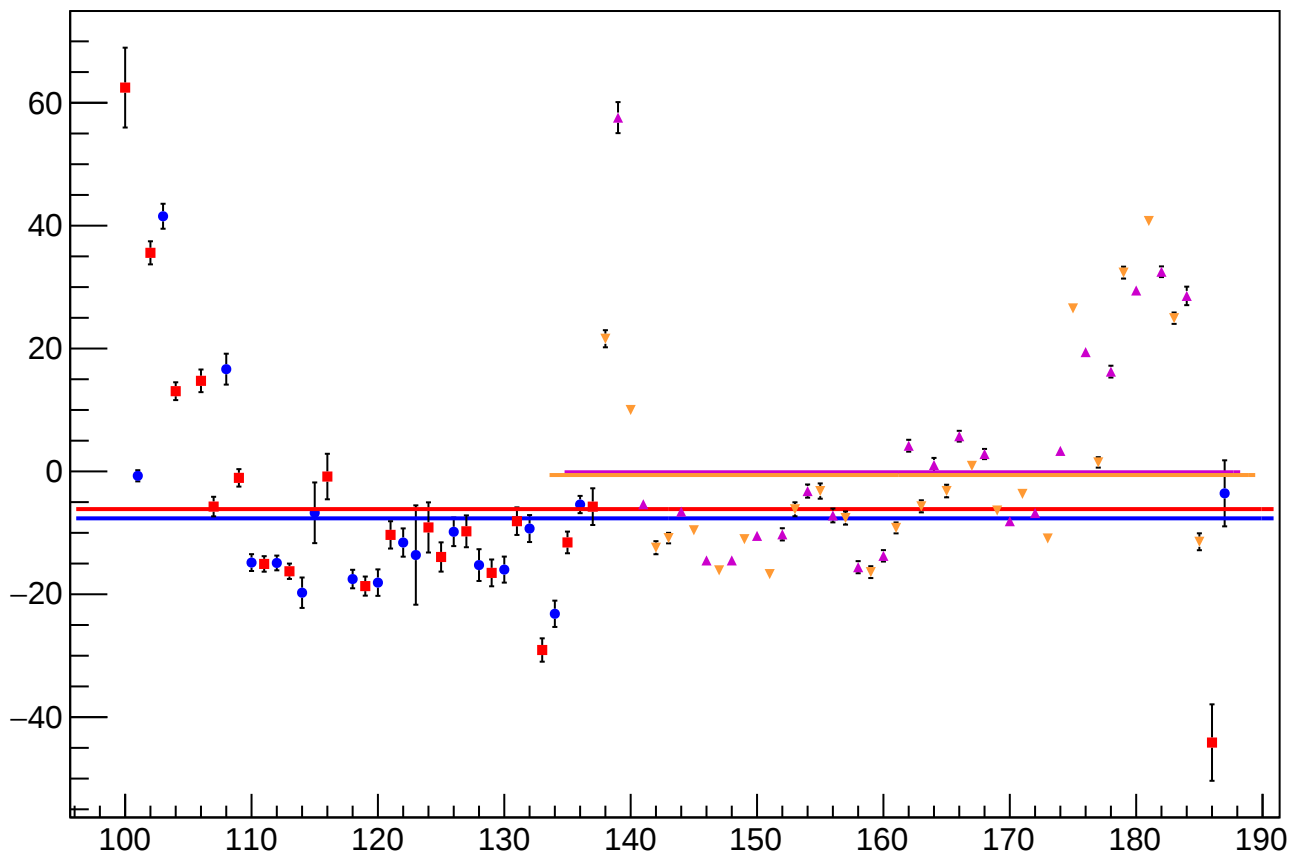
Right In: 13.675+/-3.323 χ^2 /NDF: 0.0/0
 Left Out: -42.213+/-0.222 χ^2 /NDF:18309.1/24
 Right Out: 76.234+/-4.867 χ^2 /NDF: 0.0/0
 Left In: -42.176+/-0.227 χ^2 /NDF:14575.9/22

Left: -42.195+/-0.159 χ^2 /NDF: 32885.0/47
 Right: 33.568+/-2.744 χ^2 /NDF: 112.7/1

In: -41.916+/-0.227 χ^2 /NDF:14857.1/23
 Out: -41.967+/-0.222 χ^2 /NDF:18900.2/25

All: -41.942+/-0.158 χ^2 /NDF: 33757.3/49

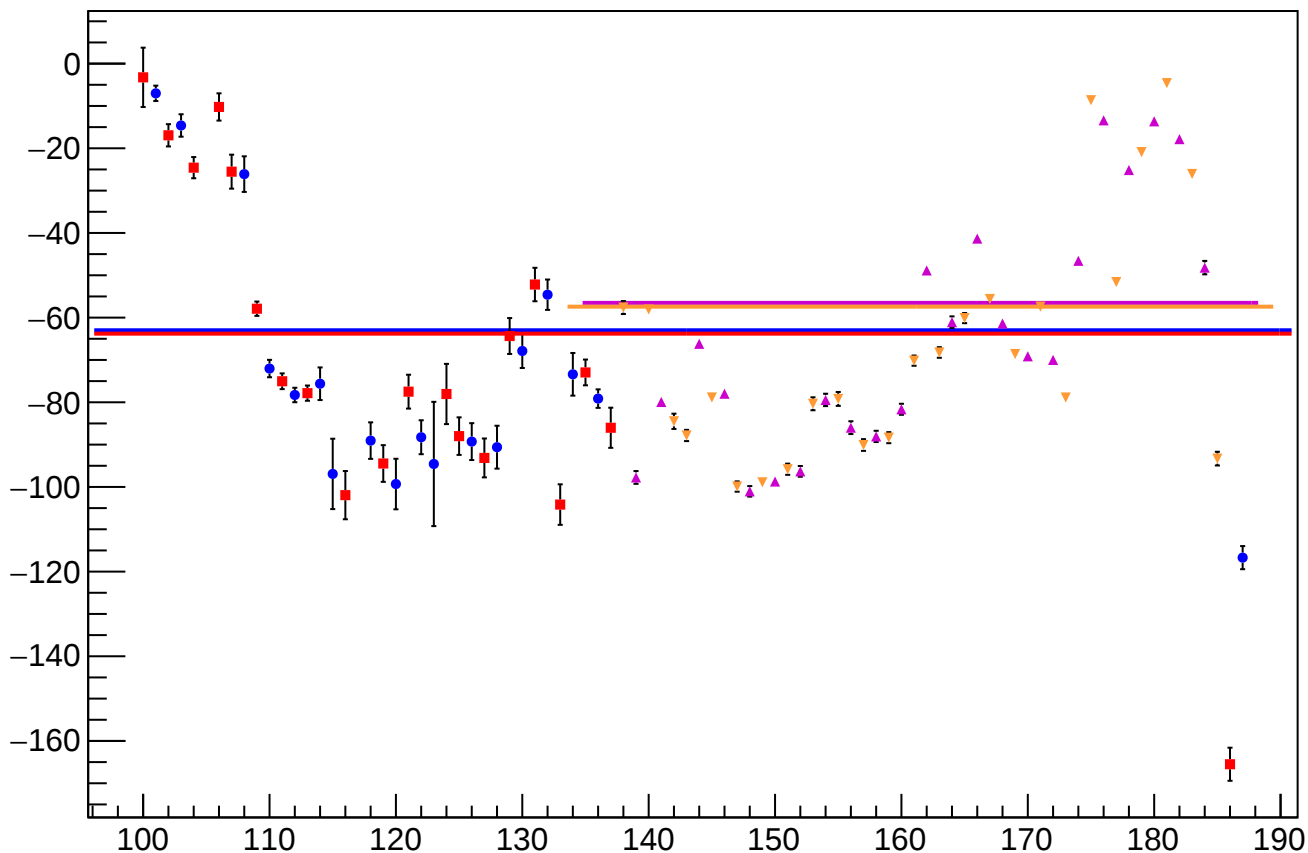
reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.642 ± 0.429 $\chi^2/\text{NDF}: 976.5/17$
 Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$
 Right Out: -6.135 ± 0.428 $\chi^2/\text{NDF}: 1335.9/19$
 Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$
 Right: -6.886 ± 0.303 $\chi^2/\text{NDF}: 2318.6/37$
 In: -1.254 ± 0.165 $\chi^2/\text{NDF}: 8098.8/40$
 Out: -1.377 ± 0.161 $\chi^2/\text{NDF}: 10230.7/44$
 All: -1.317 ± 0.115 $\chi^2/\text{NDF}: 18329.8/85$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.992 ± 0.721 χ^2/NDF : 2123.0/17

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -63.788 ± 0.694 χ^2/NDF : 2083.2/19

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

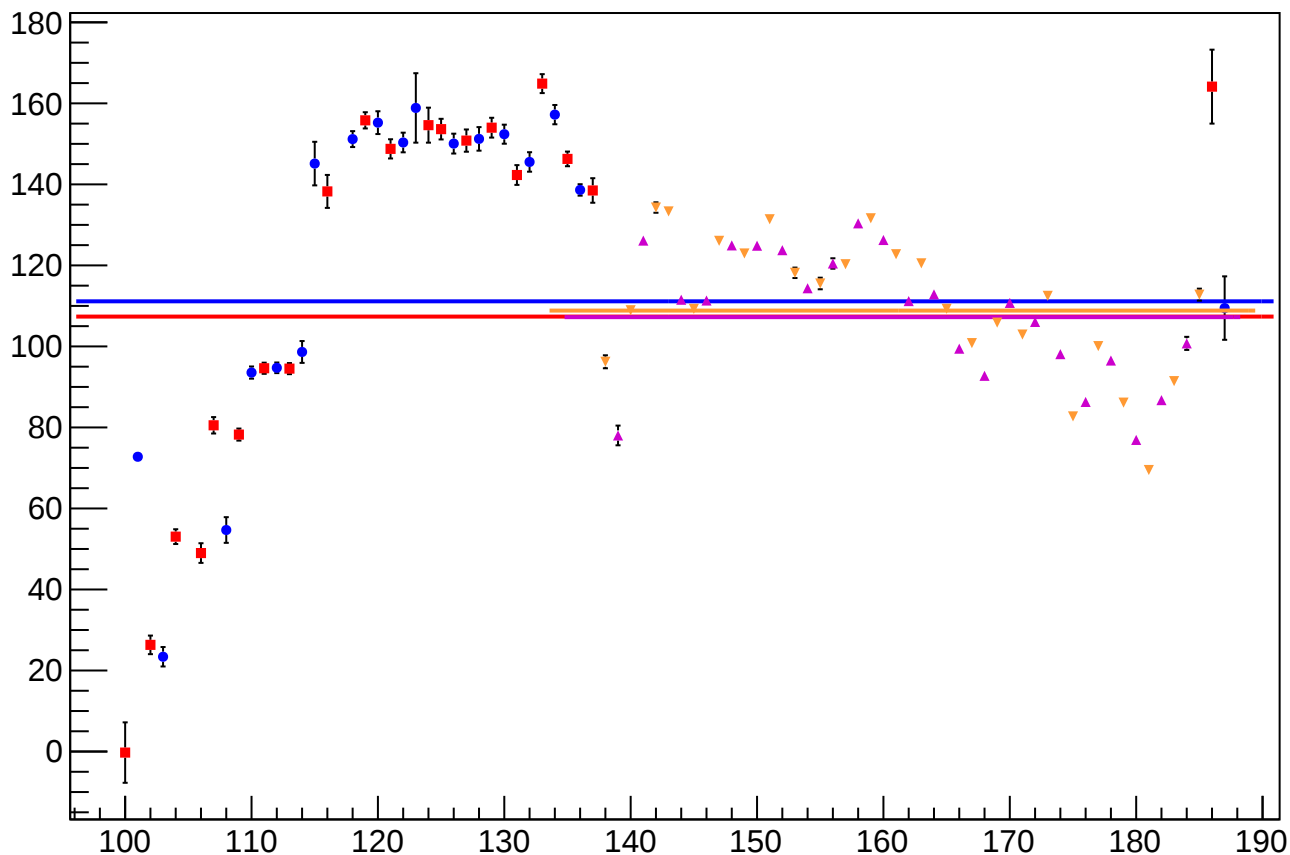
Right: -63.405 ± 0.500 χ^2/NDF : 4206.8/37

In: -57.104 ± 0.217 χ^2/NDF : 18548.9/40

Out: -58.011 ± 0.212 χ^2/NDF : 20763.8/44

All: -57.566 ± 0.152 χ^2/NDF : 39321.6/85

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 111.133 $\pm$ 0.489 χ^2 /NDF: 5863.6/17

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 107.364 $\pm$ 0.488 χ^2 /NDF: 7081.7/19

Left In: 107.225 $\pm$ 0.202 χ^2 /NDF: 5565.3/22

Left: 108.056 $\pm$ 0.141 χ^2 /NDF: 12998.4/47

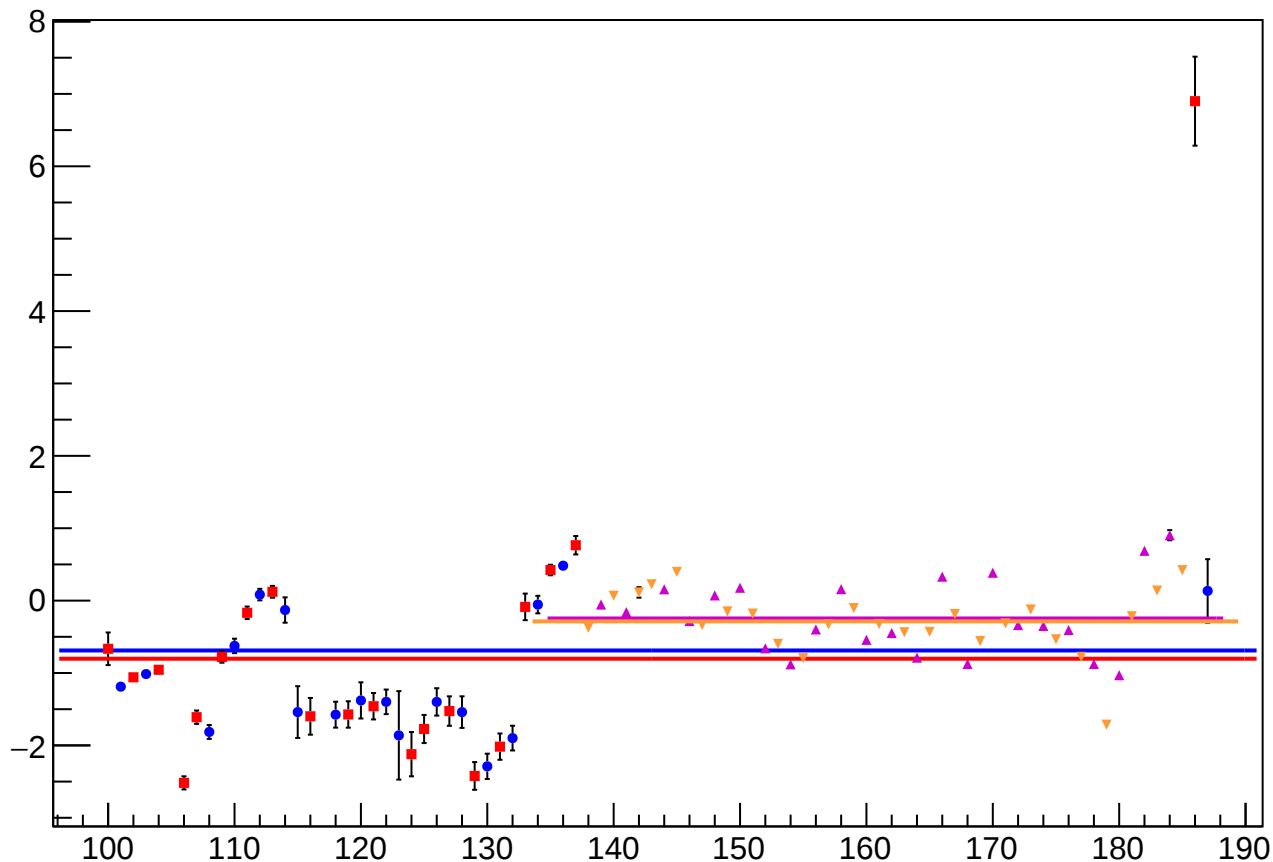
Right: 109.243 $\pm$ 0.345 χ^2 /NDF: 12975.1/37

In: 107.796 $\pm$ 0.187 χ^2 /NDF: 11483.4/40

Out: 108.638 $\pm$ 0.183 χ^2 /NDF: 14489.9/44

All: 108.226 $\pm$ 0.131 χ^2 /NDF: 25983.7/85

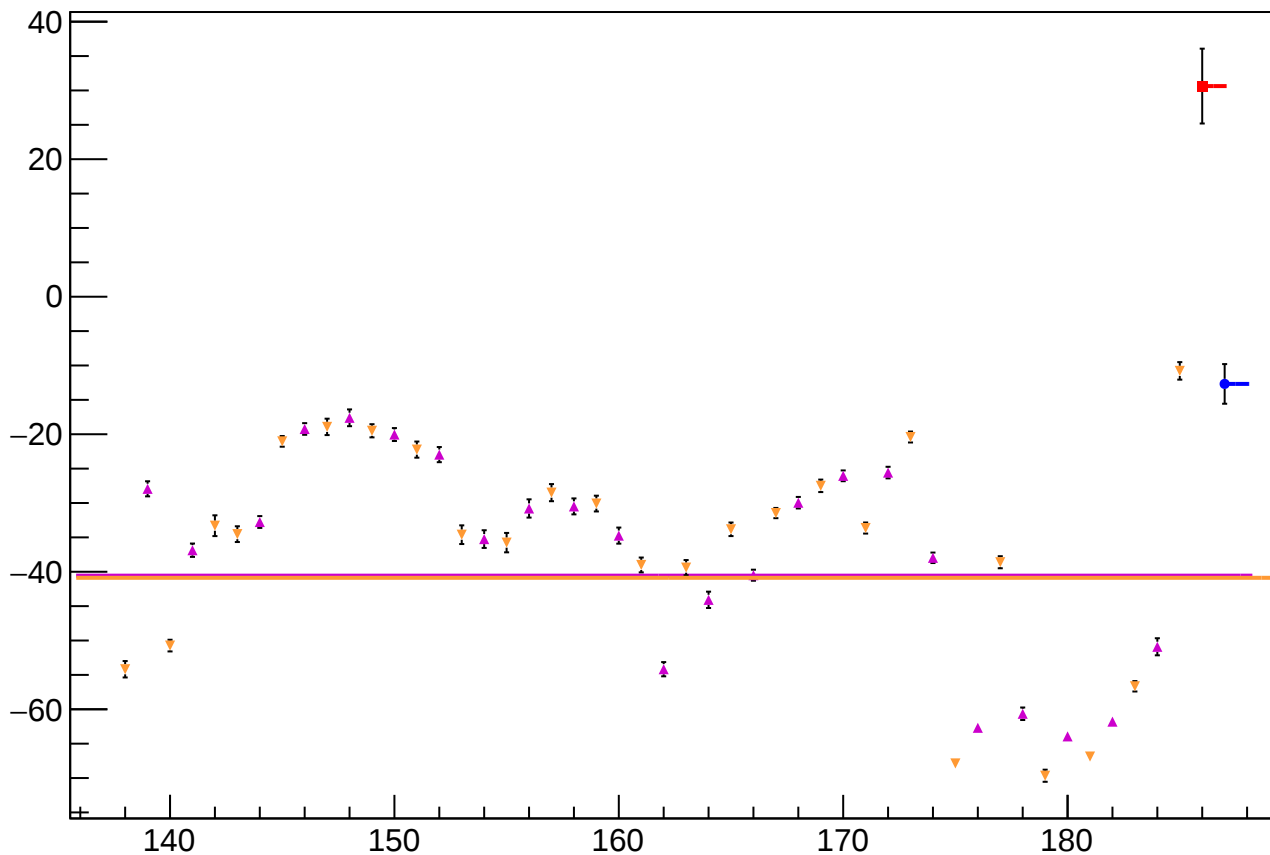
reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



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: -0.803 ± 0.024 χ^2/NDF : 1459.8/19
 Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47
 Right: -0.749 ± 0.018 χ^2/NDF : 2462.6/37
 In: -0.297 ± 0.009 χ^2/NDF : 4045.1/40
 Out: -0.350 ± 0.009 χ^2/NDF : 3906.5/44
 All: -0.324 ± 0.006 χ^2/NDF : 7970.3/85

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



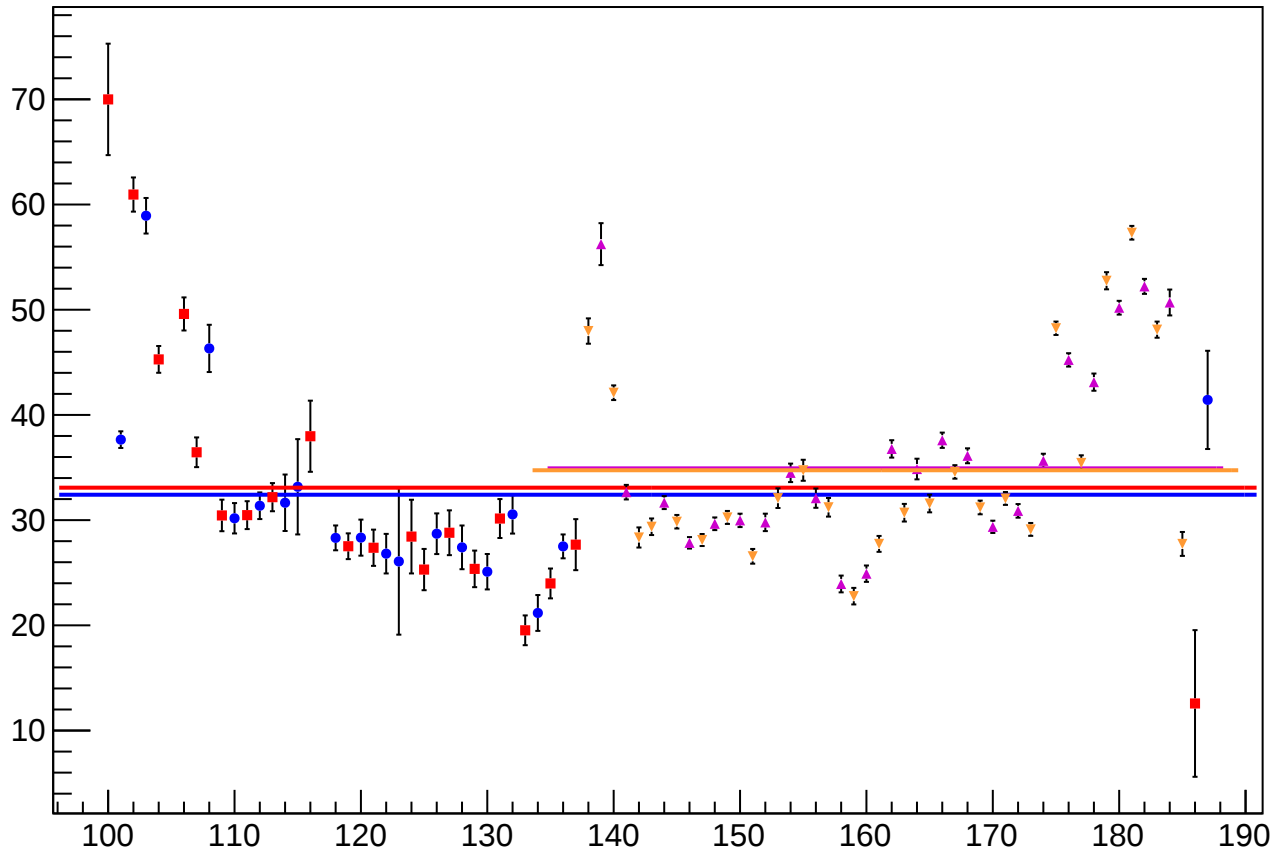
Right In: -12.681 ± 2.883 χ^2/NDF : 0.0/0
 Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24
 Right Out: 30.633 ± 5.441 χ^2/NDF : 0.0/0
 Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47
 Right: -3.187 ± 2.548 χ^2/NDF : 49.5/1

In: -40.446 ± 0.189 χ^2/NDF : 7047.9/23
 Out: -40.796 ± 0.186 χ^2/NDF : 9295.8/25

All: -40.624 ± 0.133 χ^2/NDF : 16345.4/49

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: 33.086 $\pm$ 0.379 χ^2 /NDF: 782.0/19

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: 32.747 $\pm$ 0.266 χ^2 /NDF: 1237.8/37

In: 34.570 $\pm$ 0.141 χ^2 /NDF:3165.6/40

Out: 34.523 $\pm$ 0.137 χ^2 /NDF:4491.7/44

All: 34.546 $\pm$ 0.098 χ^2 /NDF: 7657.4/85

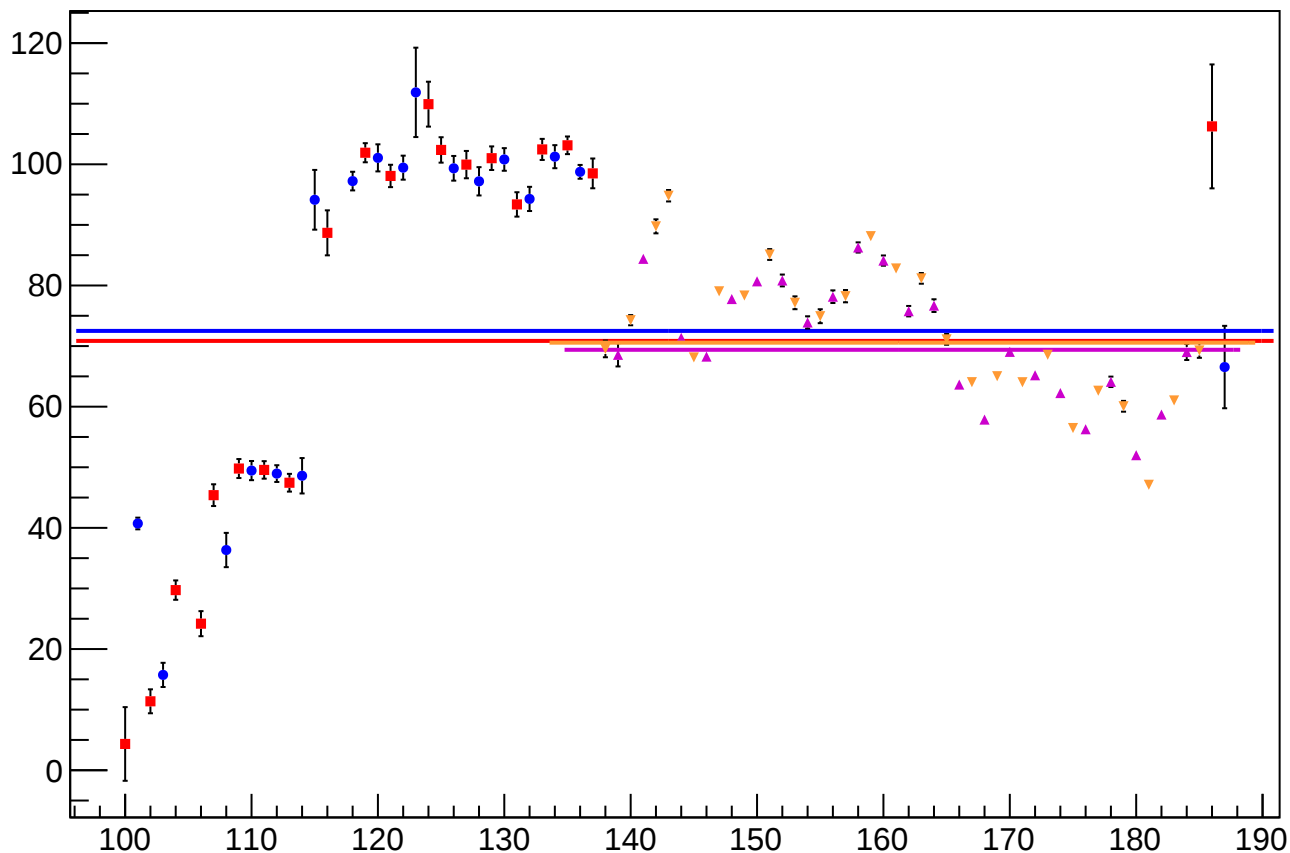
reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



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: -20.014 ± 0.638 χ^2/NDF : 810.9/19
 Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47
 Right: -21.008 ± 0.453 χ^2/NDF : 1693.0/37
 In: -28.089 ± 0.182 χ^2/NDF : 10014.7/40
 Out: -28.438 ± 0.179 χ^2/NDF : 11126.5/44
 All: -28.266 ± 0.128 χ^2/NDF : 21143.0/85

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: 70.854 $\pm$ 0.433 χ^2 /NDF: 5506.6/19

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

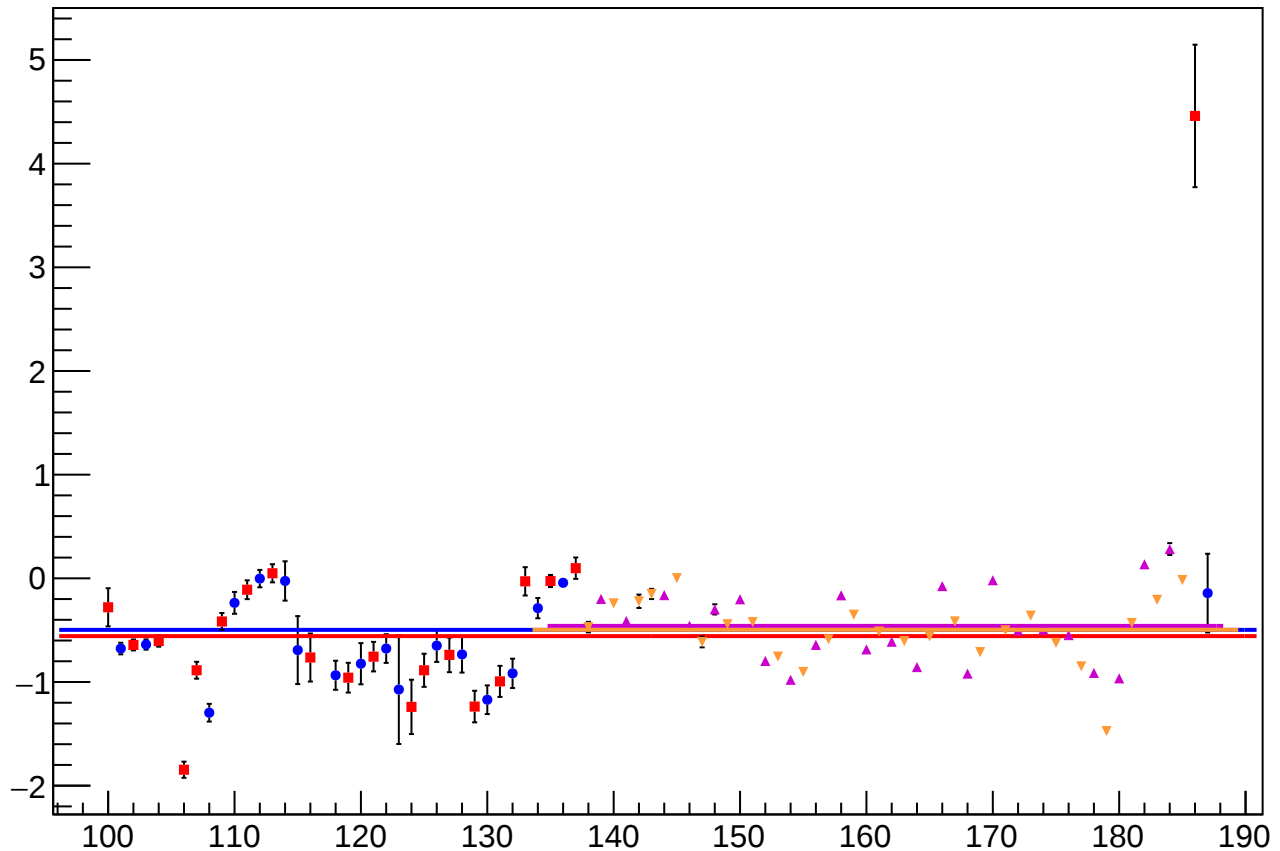
Right: 71.690 $\pm$ 0.305 χ^2 /NDF: 10186.9/37

In: 69.813 $\pm$ 0.158 χ^2 /NDF:8040.6/40

Out: 70.600 $\pm$ 0.155 χ^2 /NDF:10096.1/44

All: 70.214 $\pm$ 0.111 χ^2 /NDF: 18149.3/85

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: -0.557 ± 0.021 χ^2/NDF : 613.6/19

Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47

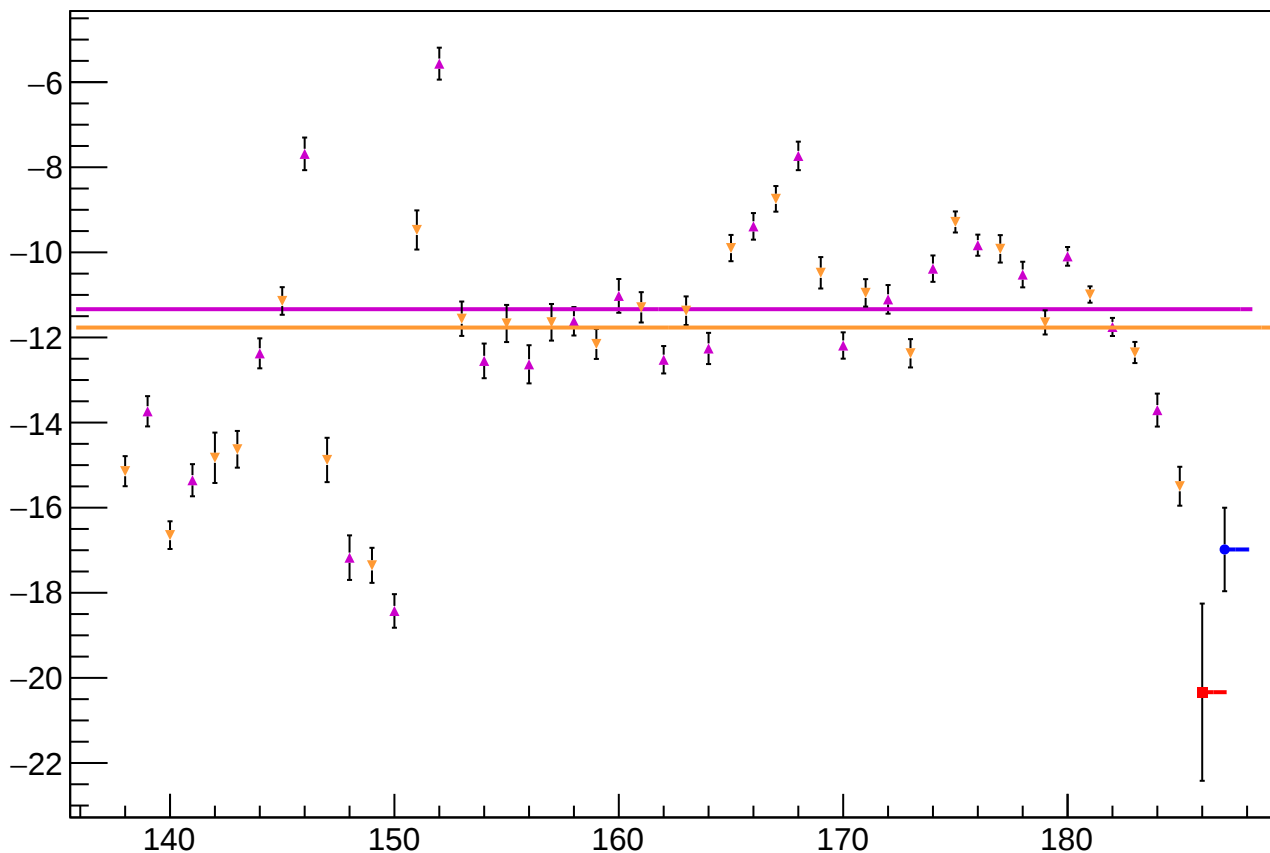
Right: -0.529 ± 0.015 χ^2/NDF : 920.4/37

In: -0.463 ± 0.007 χ^2/NDF : 2264.1/40

Out: -0.503 ± 0.007 χ^2/NDF : 2070.0/44

All: -0.484 ± 0.005 χ^2/NDF : 4349.8/85

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: -20.336 ± 2.082 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -11.336 ± 0.068 $\chi^2/\text{NDF}: 1269.3/22$

Left: -11.556 ± 0.048 $\chi^2/\text{NDF}: 2310.6/47$

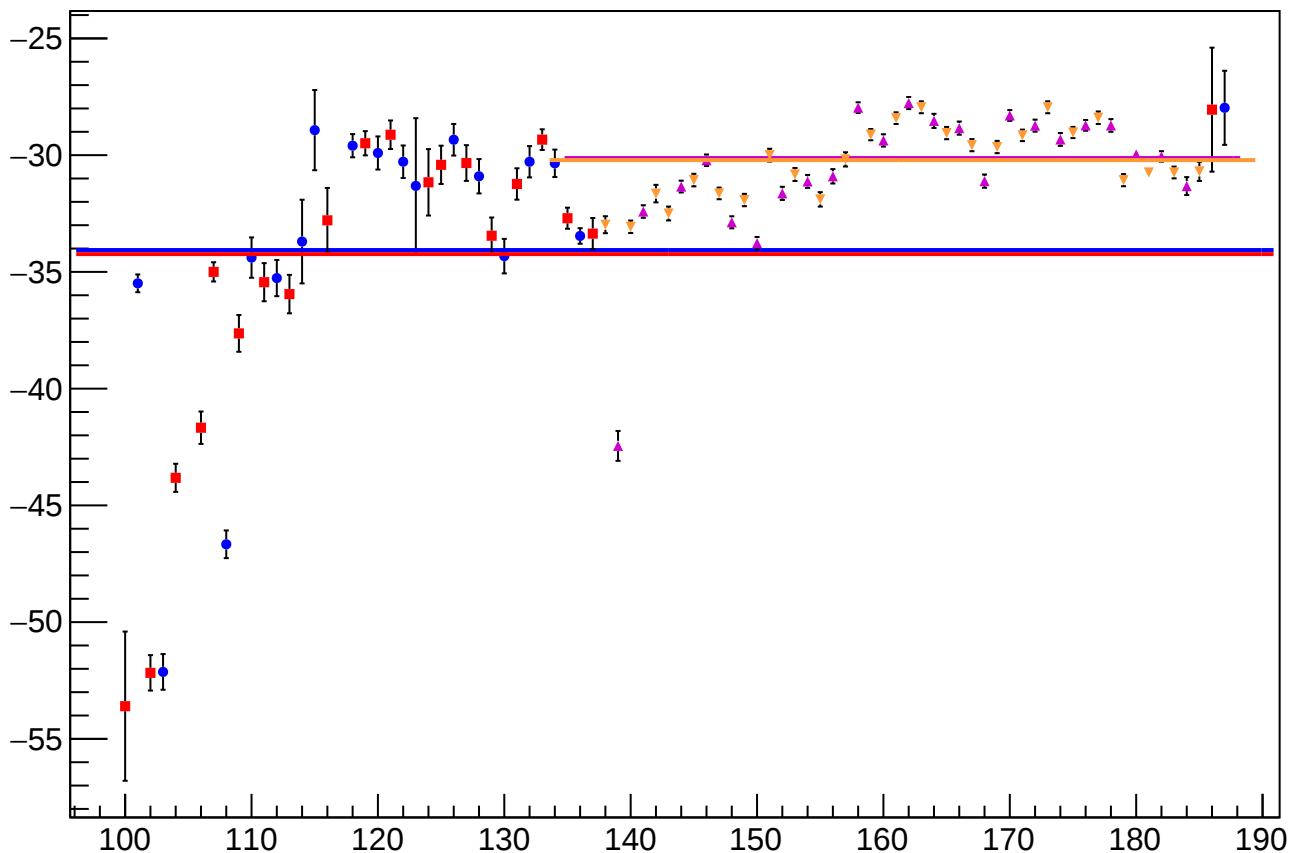
Right: -17.591 ± 0.887 $\chi^2/\text{NDF}: 2.1/1$

In: -11.363 ± 0.068 $\chi^2/\text{NDF}: 1302.3/23$

Out: -11.776 ± 0.067 $\chi^2/\text{NDF}: 1037.7/25$

All: -11.573 ± 0.048 $\chi^2/\text{NDF}: 2358.9/49$

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: -34.238 ± 0.151 χ^2/NDF : 1361.5/19

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

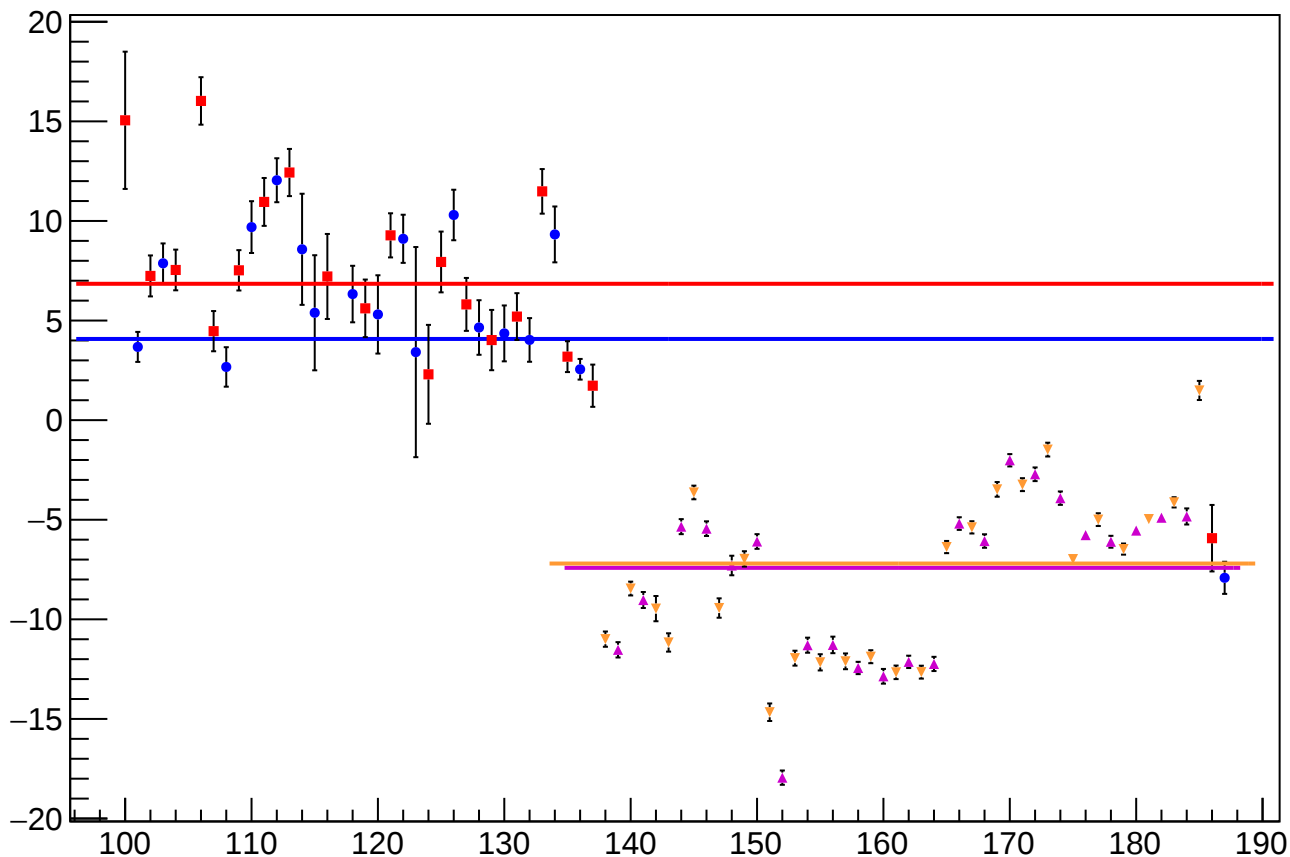
Right: -34.152 ± 0.107 χ^2/NDF : 2701.4/37

In: -30.591 ± 0.052 χ^2/NDF : 3163.4/40

Out: -30.668 ± 0.051 χ^2/NDF : 2728.0/44

All: -30.631 ± 0.036 χ^2/NDF : 5892.6/85

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: 6.846 ± 0.271 $\chi^2/\text{NDF}: 242.4/19$

Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$

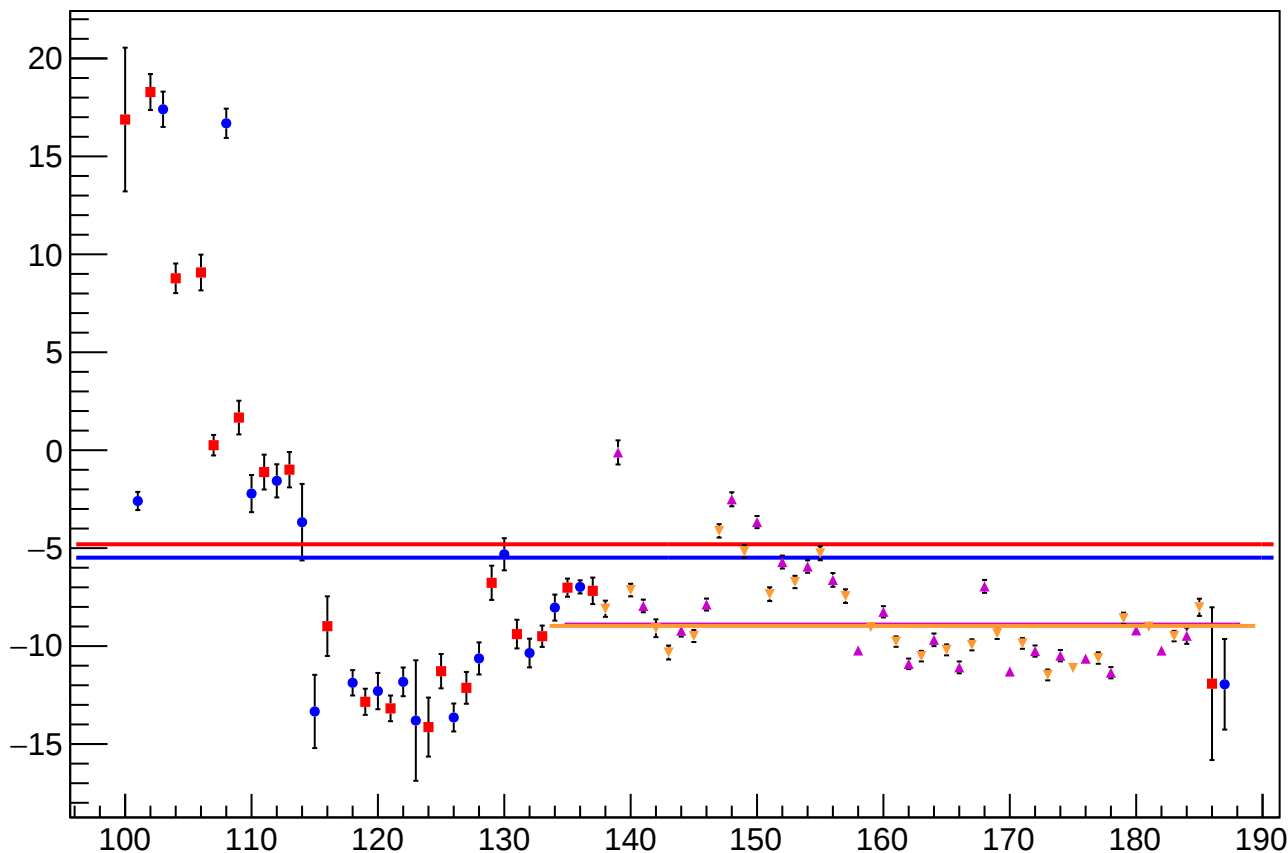
Right: 5.385 ± 0.186 $\chi^2/\text{NDF}: 676.0/37$

In: -6.664 ± 0.066 $\chi^2/\text{NDF}: 5375.7/40$

Out: -6.394 ± 0.065 $\chi^2/\text{NDF}: 5808.3/44$

All: -6.527 ± 0.046 $\chi^2/\text{NDF}: 11192.6/85$

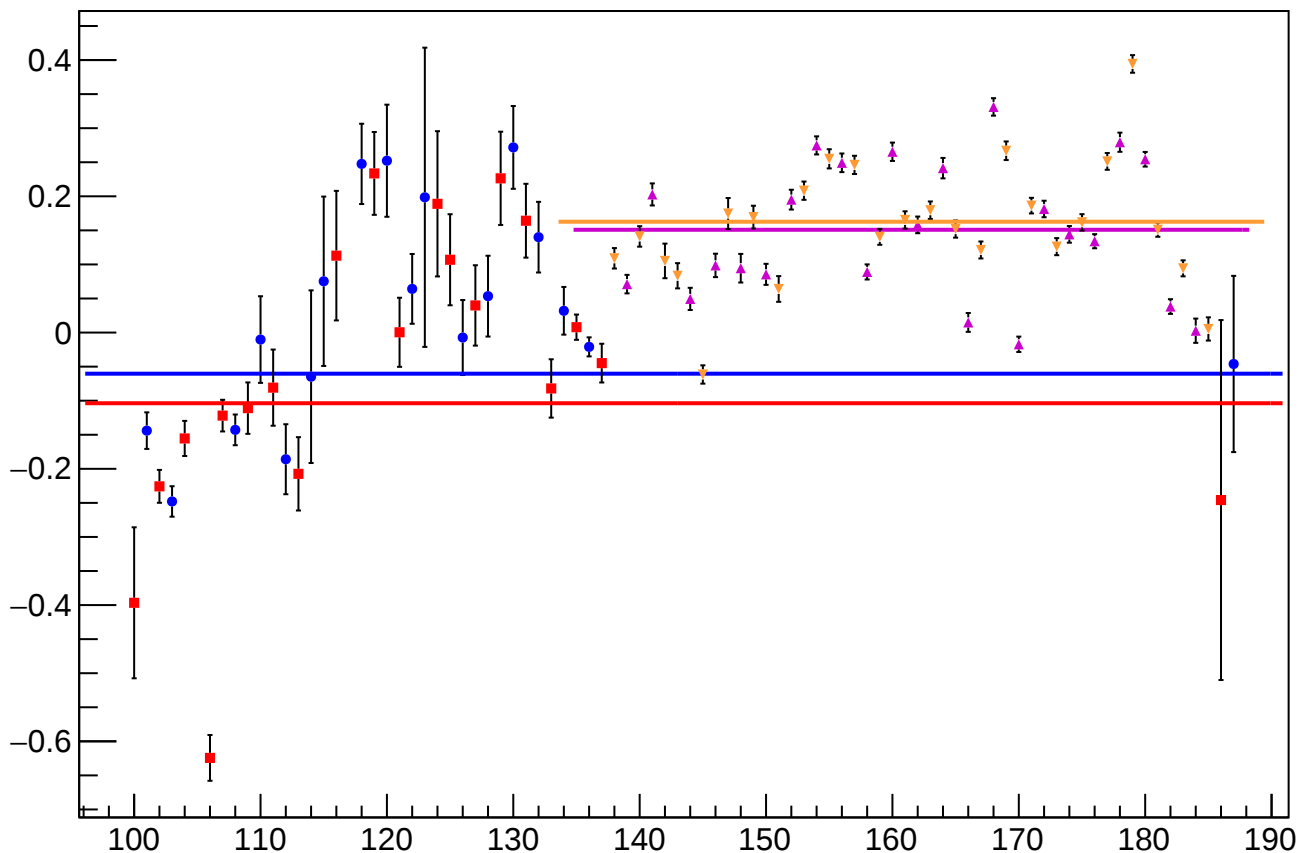
reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



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: -4.803 ± 0.173 $\chi^2/\text{NDF}: 2050.8/19$
 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: -5.149 ± 0.121 $\chi^2/\text{NDF}: 4163.7/37$
 In: -8.506 ± 0.058 $\chi^2/\text{NDF}: 3993.2/40$
 Out: -8.520 ± 0.057 $\chi^2/\text{NDF}: 3447.2/44$
 All: -8.513 ± 0.041 $\chi^2/\text{NDF}: 7440.4/85$

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: -0.104 ± 0.008 χ^2/NDF : 433.4/19

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

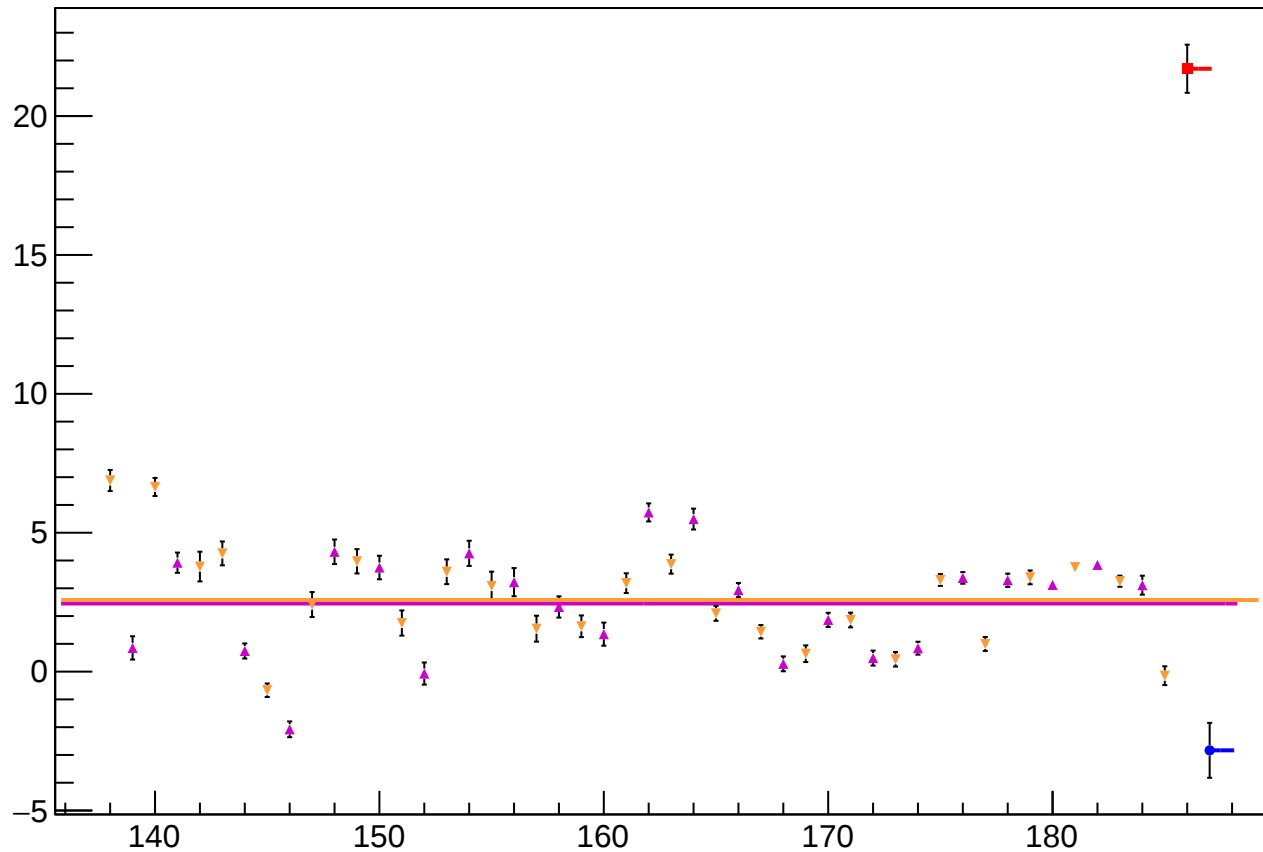
Right: -0.082 ± 0.006 χ^2/NDF : 661.2/37

In: 0.130 ± 0.003 χ^2/NDF : 2072.8/40

Out: 0.138 ± 0.003 χ^2/NDF : 2353.7/44

All: 0.134 ± 0.002 χ^2/NDF : 4430.5/85

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: 21.703 ± 0.867 χ^2/NDF : 0.0/0

Left In: 2.452 ± 0.059 χ^2/NDF : 871.3/22

Left: 2.516 ± 0.042 χ^2/NDF : 1741.0/47

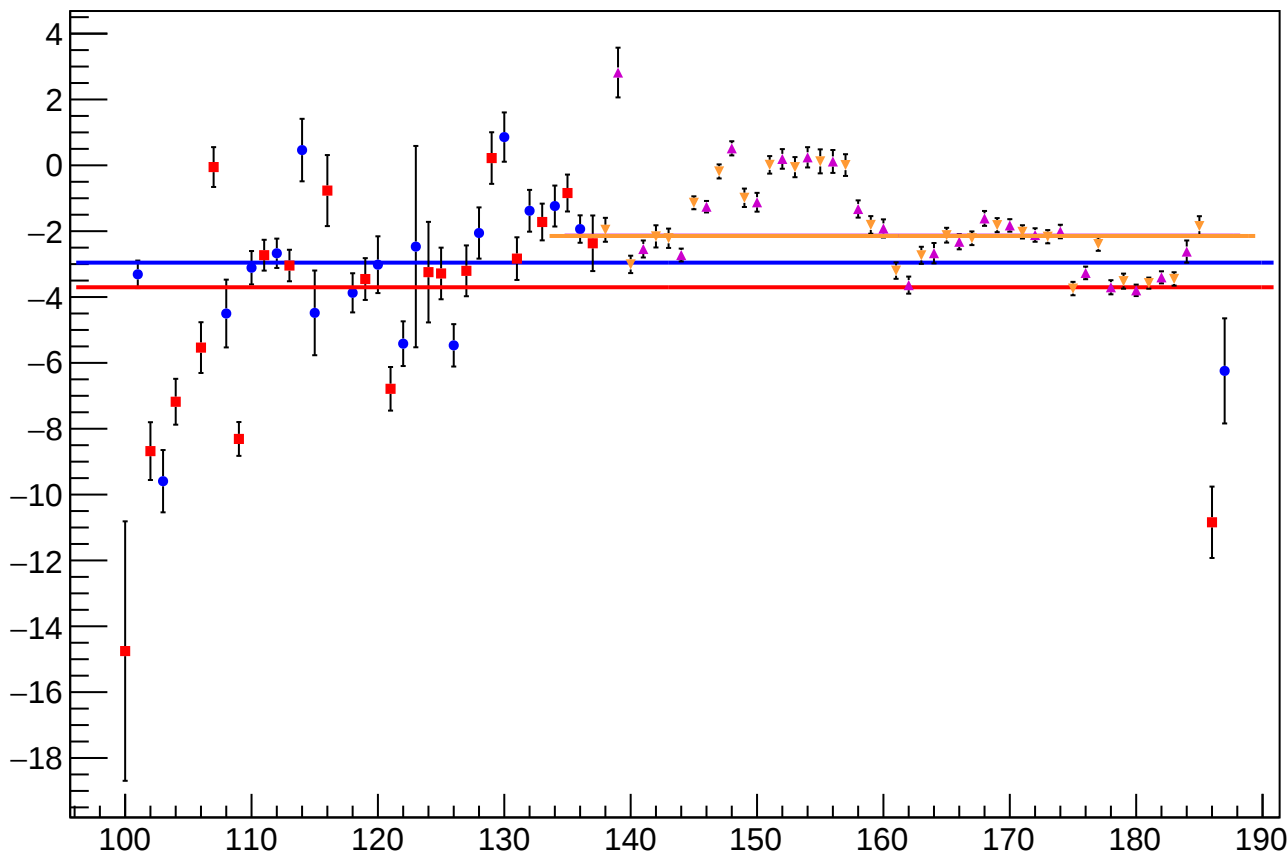
Right: 11.041 ± 0.652 χ^2/NDF : 348.5/1

In: 2.433 ± 0.059 χ^2/NDF : 899.8/23

Out: 2.663 ± 0.058 χ^2/NDF : 1352.5/25

All: 2.550 ± 0.042 χ^2/NDF : 2259.9/49

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.956 ± 0.154 χ^2/NDF : 149.2/17

Left Out: -2.146 ± 0.048 χ^2/NDF : 573.4/24

Right Out: -3.703 ± 0.153 χ^2/NDF : 335.1/19

Left In: -2.136 ± 0.048 χ^2/NDF : 691.2/22

Left: -2.141 ± 0.034 χ^2/NDF : 1264.6/47

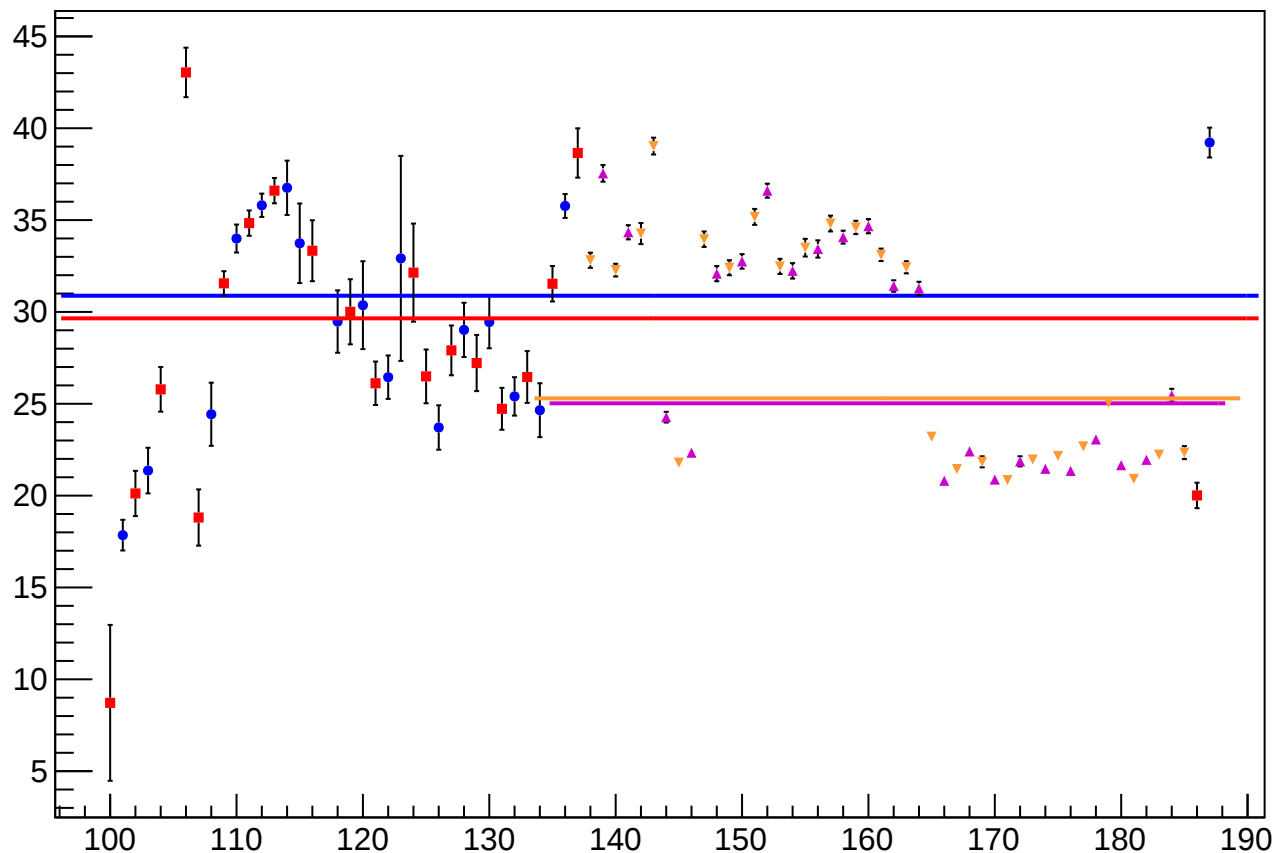
Right: -3.332 ± 0.109 χ^2/NDF : 496.1/37

In: -2.210 ± 0.046 χ^2/NDF : 866.1/40

Out: -2.283 ± 0.045 χ^2/NDF : 1002.6/44

All: -2.247 ± 0.032 χ^2/NDF : 1870.0/85

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: 29.651 $\pm$ 0.244 χ^2 /NDF: 699.2/19

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

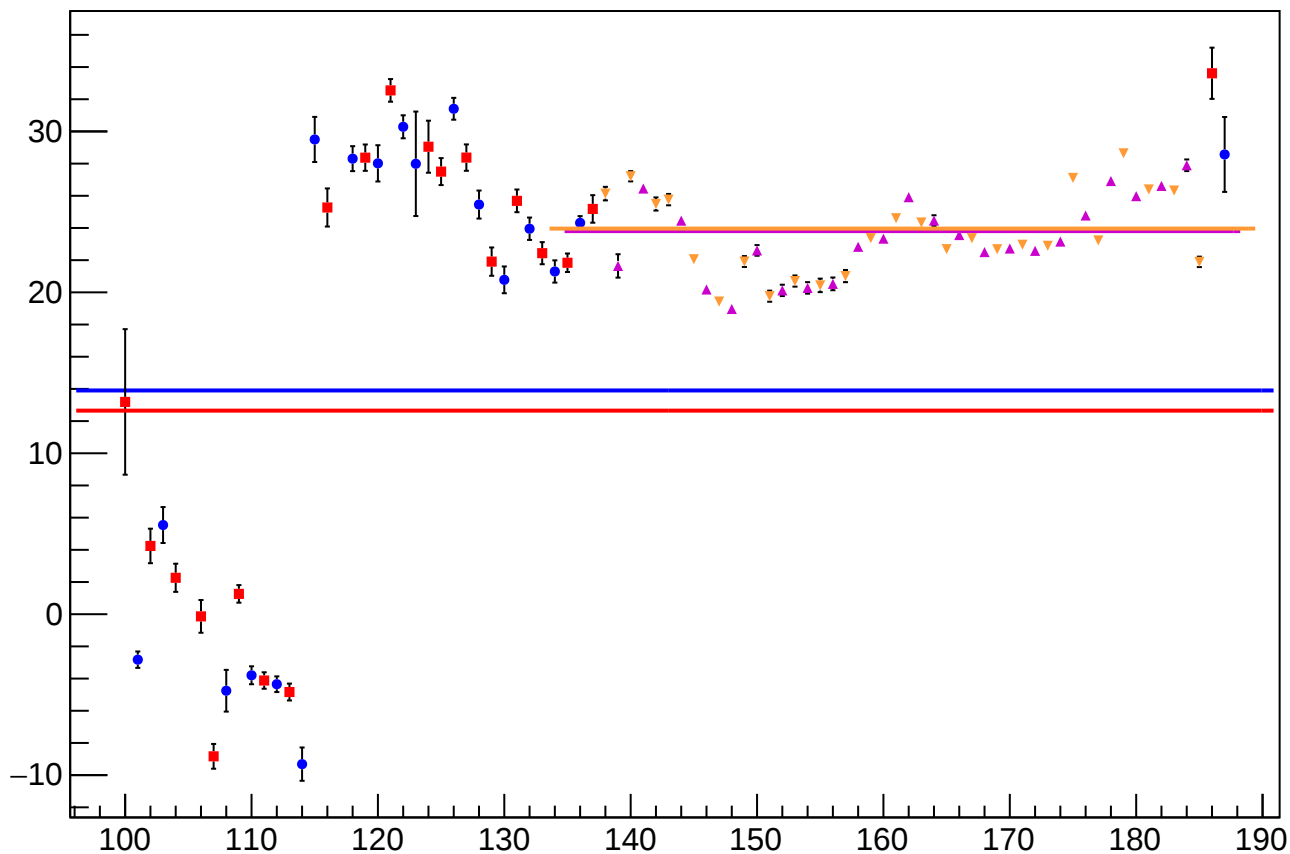
Right: 30.240 $\pm$ 0.176 χ^2 /NDF: 1382.3/37

In: 25.330 $\pm$ 0.058 χ^2 /NDF: 8784.0/40

Out: 25.535 $\pm$ 0.057 χ^2 /NDF: 9273.0/44

All: 25.434 $\pm$ 0.041 χ^2 /NDF: 18063.5/85

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: 12.650 $\pm$ 0.173 χ^2 /NDF: 7128.4/19

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

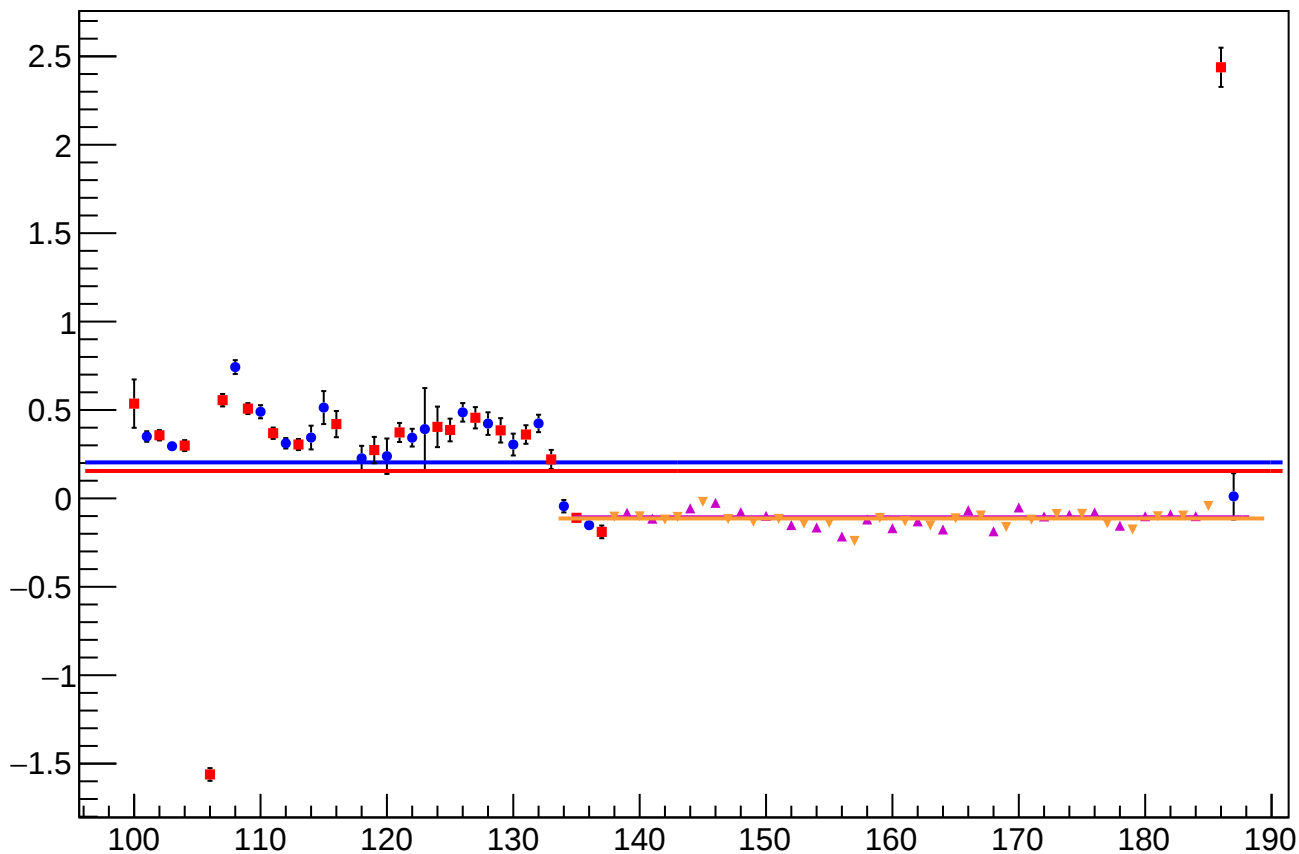
Right: 13.278 $\pm$ 0.122 χ^2 /NDF: 14469.4/37

In: 22.921 $\pm$ 0.052 χ^2 /NDF:12075.4/40

Out: 22.986 $\pm$ 0.051 χ^2 /NDF:12959.1/44

All: 22.954 $\pm$ 0.036 χ^2 /NDF: 25035.4/85

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: 0.155 ± 0.009 $\chi^2/\text{NDF}: 3440.0/19$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

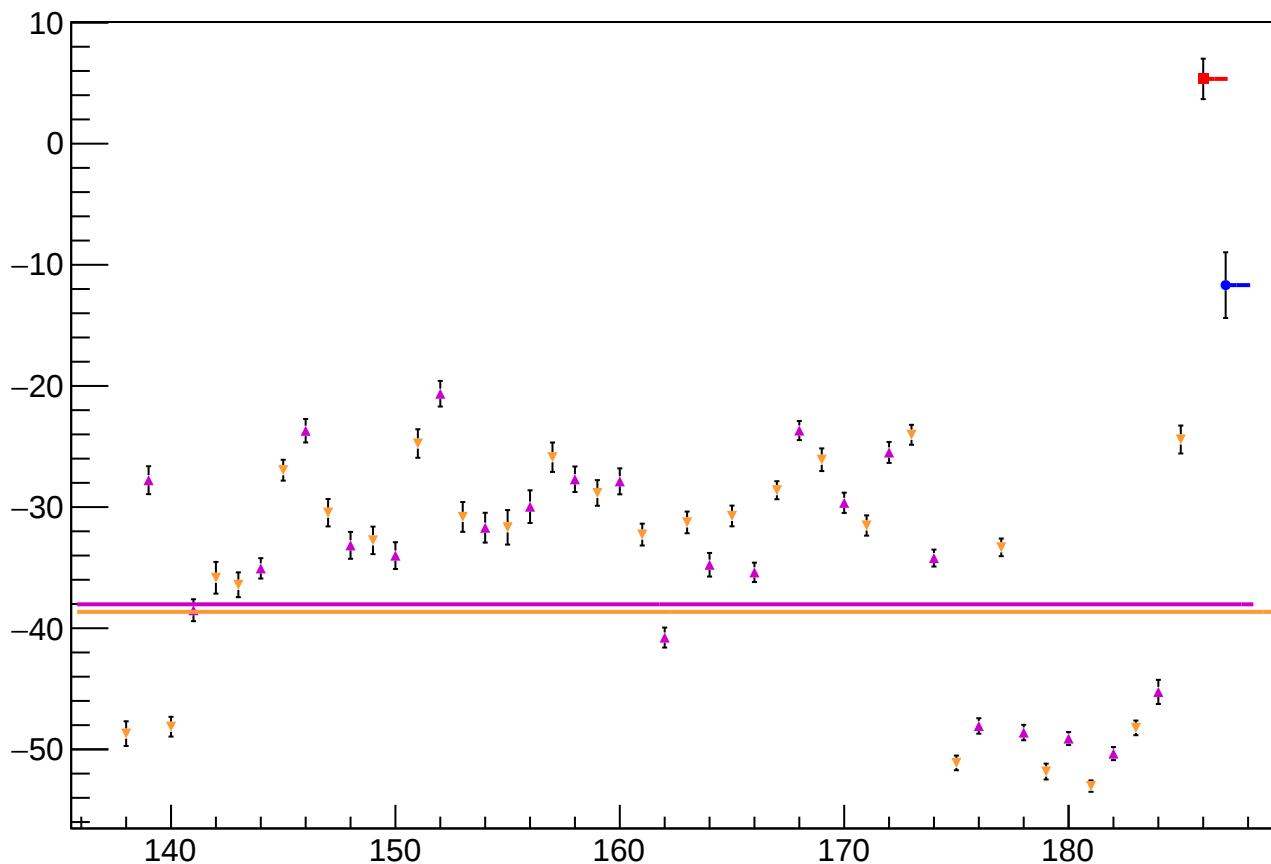
Right: 0.179 ± 0.007 $\chi^2/\text{NDF}: 4302.2/37$

In: -0.087 ± 0.002 $\chi^2/\text{NDF}: 2198.2/40$

Out: -0.096 ± 0.002 $\chi^2/\text{NDF}: 4530.5/44$

All: -0.091 ± 0.002 $\chi^2/\text{NDF}: 6736.6/85$

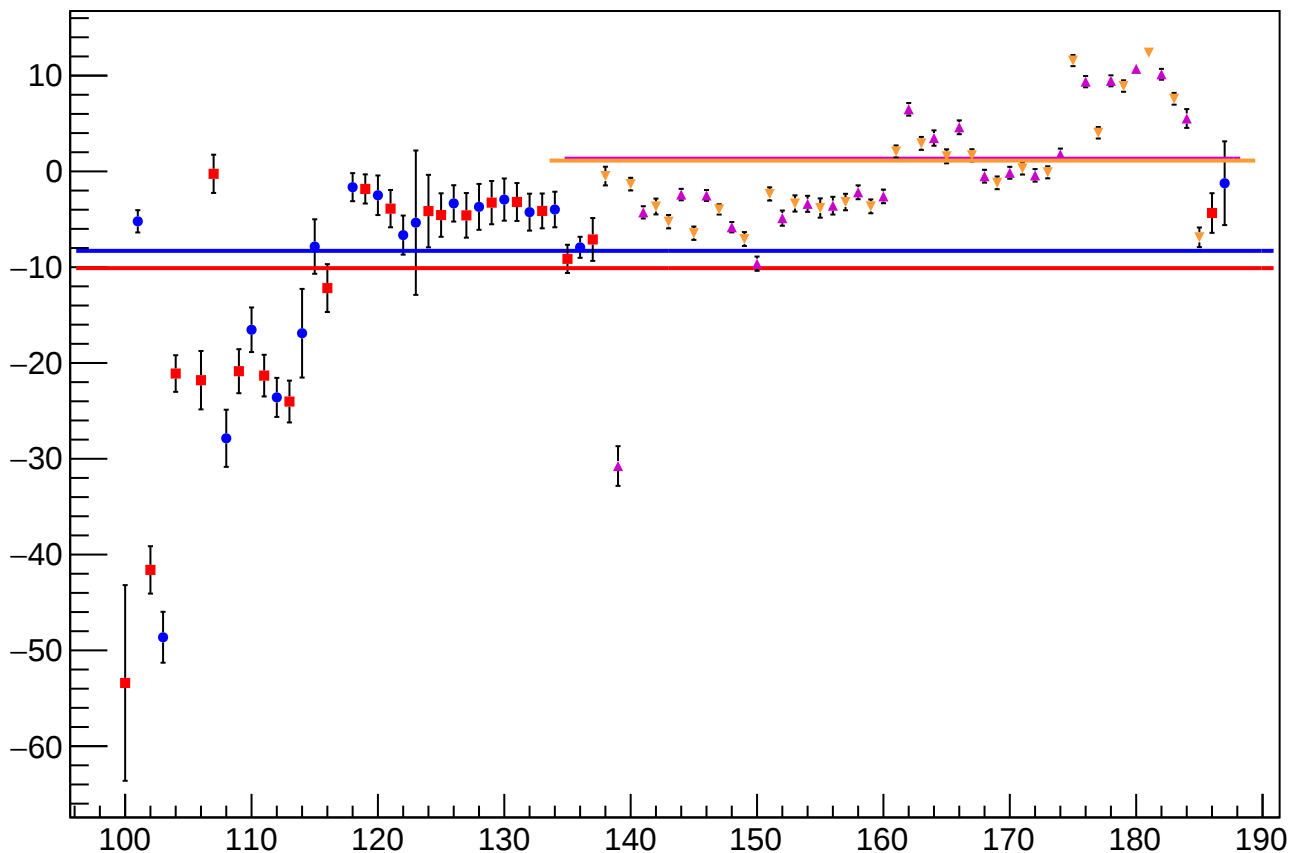
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



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: 5.346 ± 1.669 χ^2/NDF : 0.0/0
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: 0.666 ± 1.421 χ^2/NDF : 28.6/1
 In: -37.920 ± 0.173 χ^2/NDF : 3186.0/23
 Out: -38.203 ± 0.168 χ^2/NDF : 4765.0/25
 All: -38.065 ± 0.121 χ^2/NDF : 7952.3/49

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.293 ± 0.464 $\chi^2/\text{NDF}: 411.1/17$

Left Out: 1.130 ± 0.136 $\chi^2/\text{NDF}: 1799.3/24$

Right Out: -10.098 ± 0.478 $\chi^2/\text{NDF}: 438.0/19$

Left In: 1.329 ± 0.140 $\chi^2/\text{NDF}: 2048.0/22$

Left: 1.227 ± 0.097 $\chi^2/\text{NDF}: 3848.4/47$

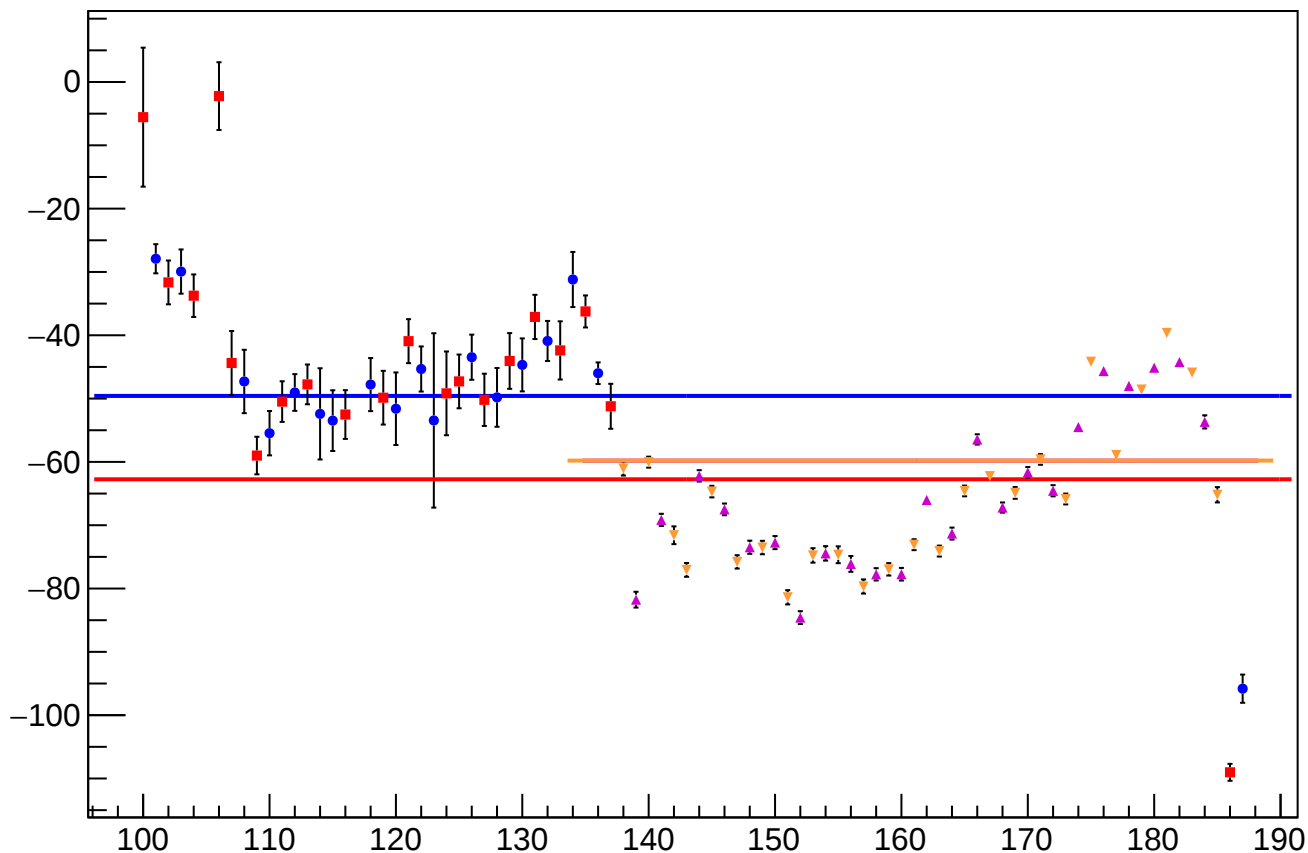
Right: -9.168 ± 0.333 $\chi^2/\text{NDF}: 856.5/37$

In: 0.528 ± 0.134 $\chi^2/\text{NDF}: 2853.5/40$

Out: 0.290 ± 0.131 $\chi^2/\text{NDF}: 2747.1/44$

All: 0.406 ± 0.094 $\chi^2/\text{NDF}: 5602.2/85$

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: -62.747 $\pm$ 0.729 χ^2 /NDF: 1852.3/19

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

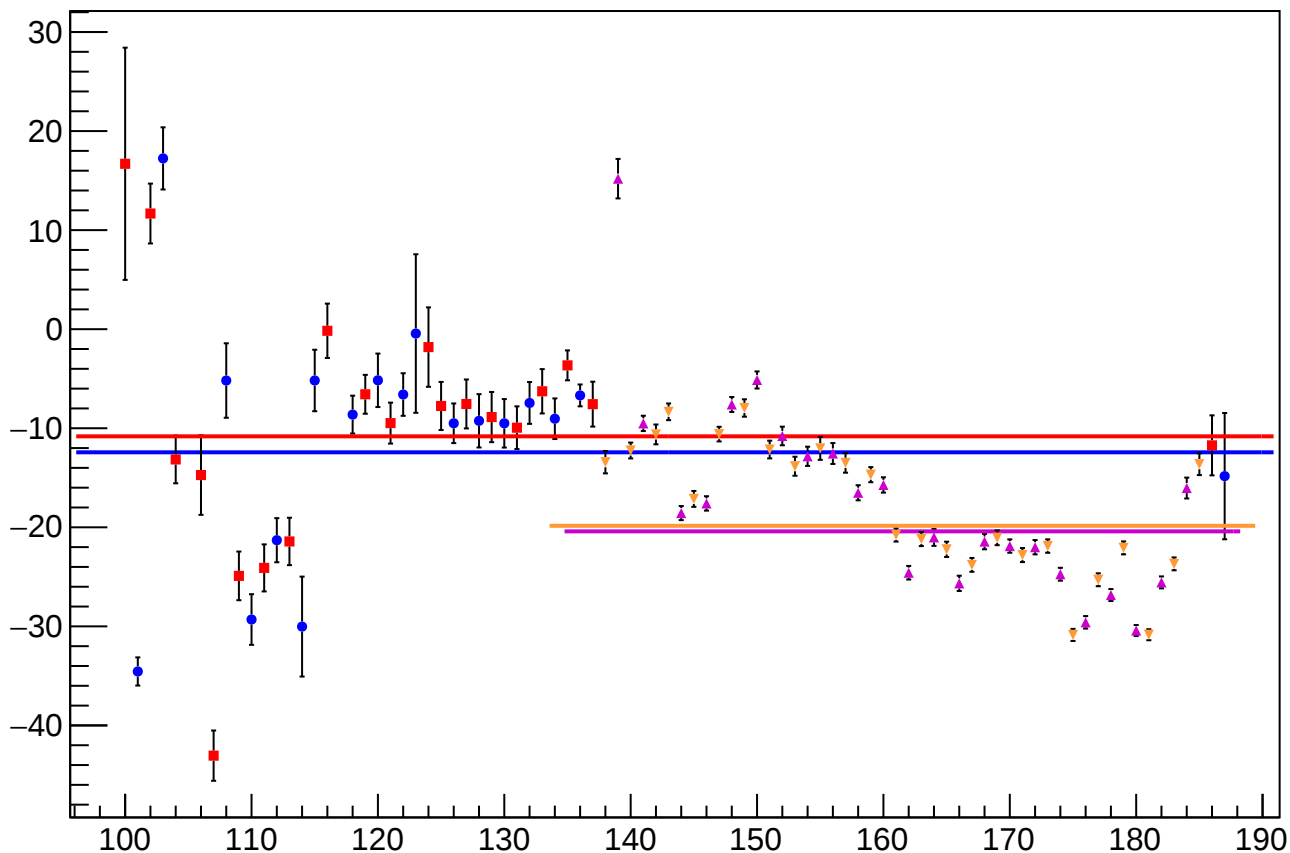
Right: -56.650 $\pm$ 0.534 χ^2 /NDF: 2594.3/37

In: -59.327 $\pm$ 0.169 χ^2 /NDF: 5970.2/40

Out: -59.942 $\pm$ 0.166 χ^2 /NDF: 7705.6/44

All: -59.641 $\pm$ 0.118 χ^2 /NDF: 13682.6/85

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: -10.816 ± 0.546 χ^2/NDF : 366.0/19

Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47

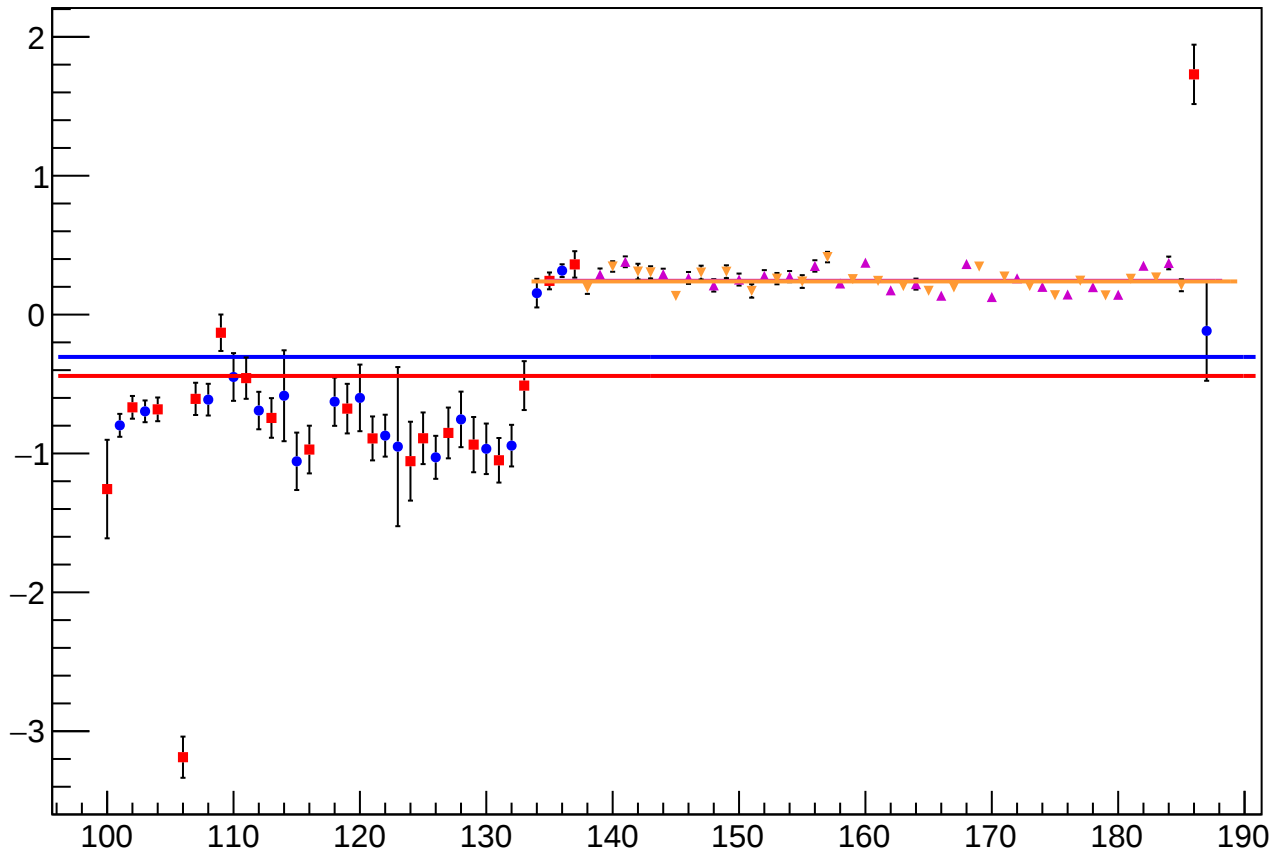
Right: -11.658 ± 0.377 χ^2/NDF : 844.2/37

In: -19.751 ± 0.150 χ^2/NDF : 2990.1/40

Out: -19.191 ± 0.147 χ^2/NDF : 2551.4/44

All: -19.465 ± 0.105 χ^2/NDF : 5548.6/85

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: -0.442 ± 0.028 χ^2/NDF : 732.8/19

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

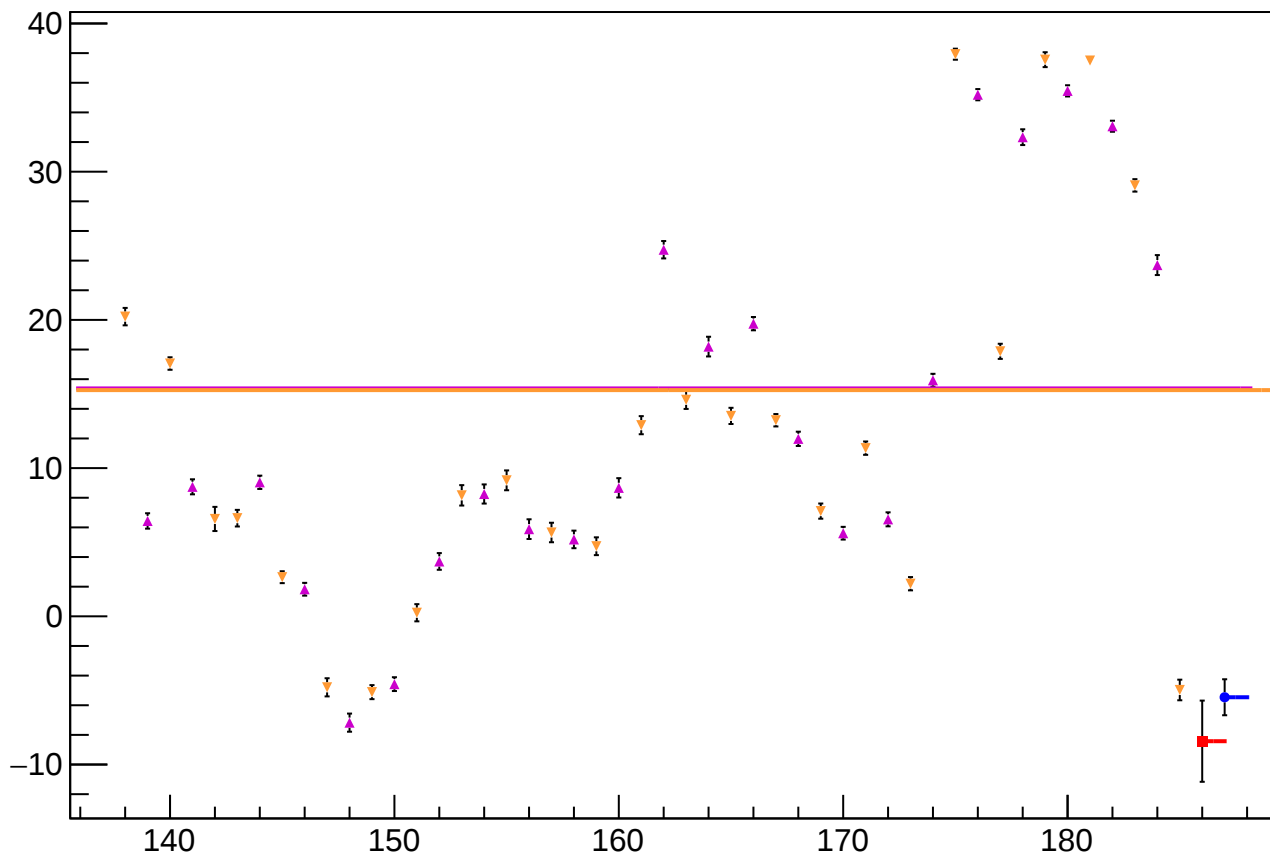
Right: -0.371 ± 0.020 χ^2/NDF : 1116.8/37

In: 0.208 ± 0.007 χ^2/NDF : 882.0/40

Out: 0.199 ± 0.007 χ^2/NDF : 1368.1/44

All: 0.204 ± 0.005 χ^2/NDF : 2251.0/85

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: -8.426+/-2.739 χ^2 /NDF: 0.0/0

Left In: 15.377+/-0.103 χ^2 /NDF:16268.9/22

Left: 15.318+/-0.072 χ^2 /NDF: 35444.7/47

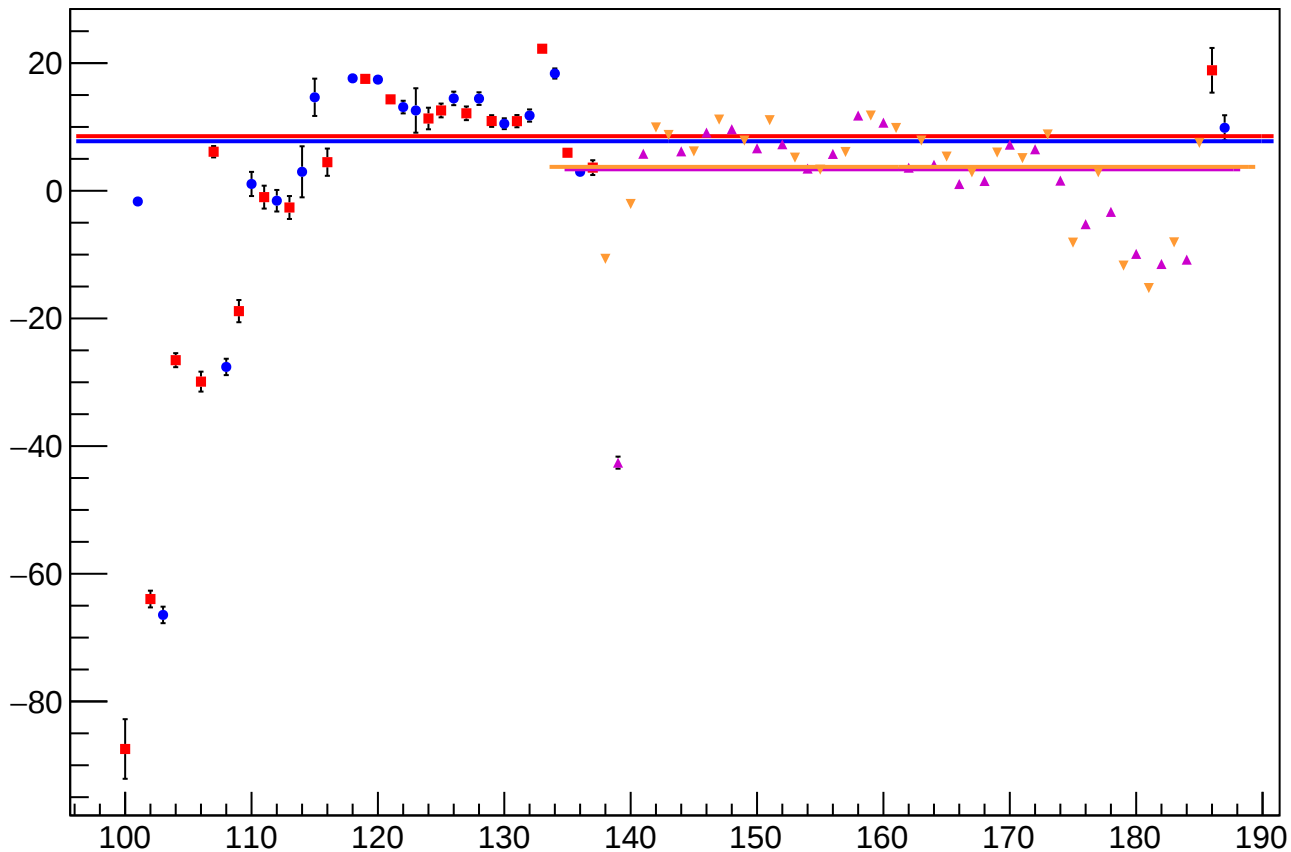
Right: -5.948+/-1.110 χ^2 /NDF: 1.0/1

In: 15.229+/-0.102 χ^2 /NDF:16561.5/23

Out: 15.231+/-0.100 χ^2 /NDF:19249.9/25

All: 15.230+/-0.072 χ^2 /NDF: 35811.4/49

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: 8.556 ± 0.213 $\chi^2/\text{NDF}: 6729.3/19$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

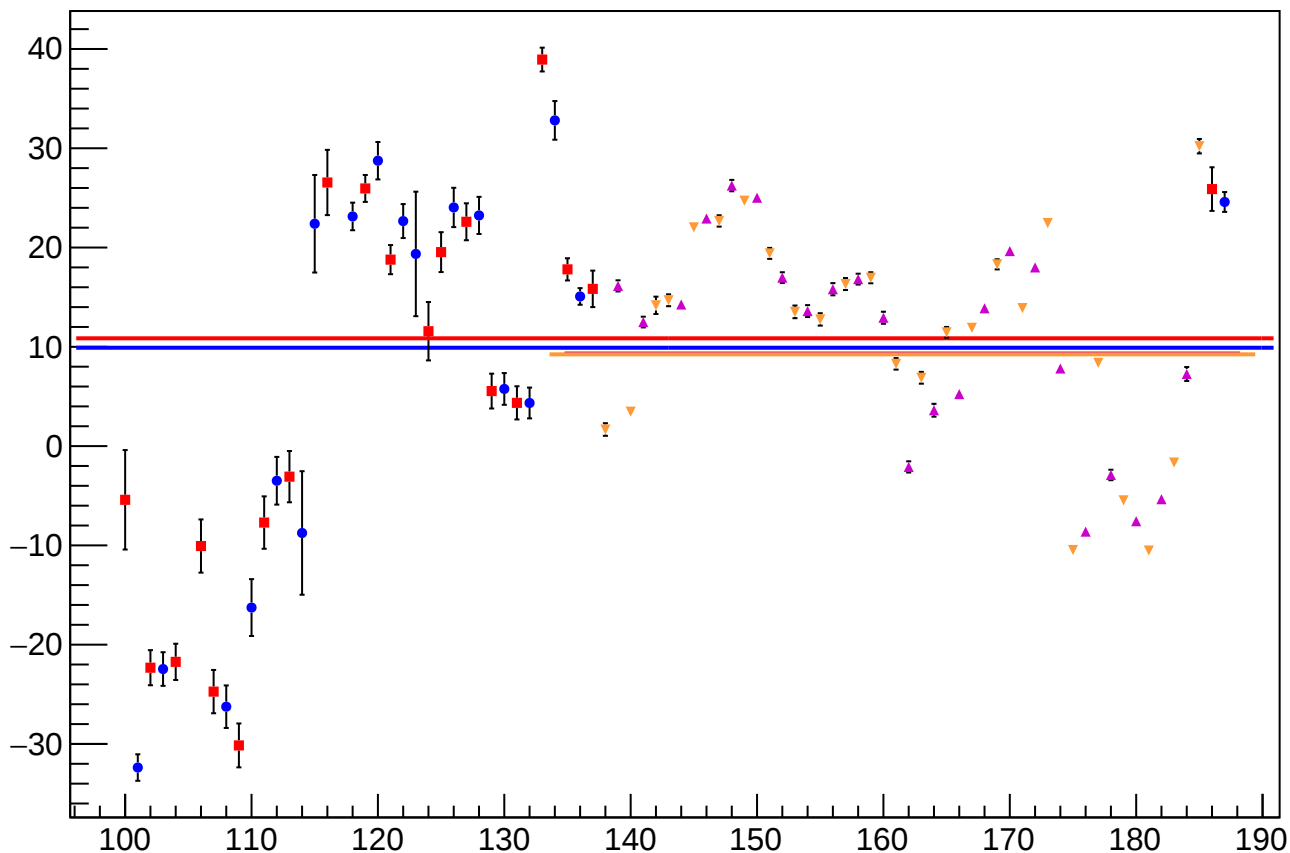
Right: 8.166 ± 0.152 $\chi^2/\text{NDF}: 12038.7/37$

In: 3.906 ± 0.076 $\chi^2/\text{NDF}: 14189.7/40$

Out: 4.324 ± 0.074 $\chi^2/\text{NDF}: 16425.0/44$

All: 4.121 ± 0.053 $\chi^2/\text{NDF}: 30630.2/85$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 9.907 ± 0.386 $\chi^2/\text{NDF}: 2546.0/17$

Left Out: 9.242 ± 0.101 $\chi^2/\text{NDF}: 13633.2/24$

Right Out: 10.858 ± 0.410 $\chi^2/\text{NDF}: 2331.4/19$

Left In: 9.328 ± 0.103 $\chi^2/\text{NDF}: 11968.5/22$

Left: 9.284 ± 0.072 $\chi^2/\text{NDF}: 25602.0/47$

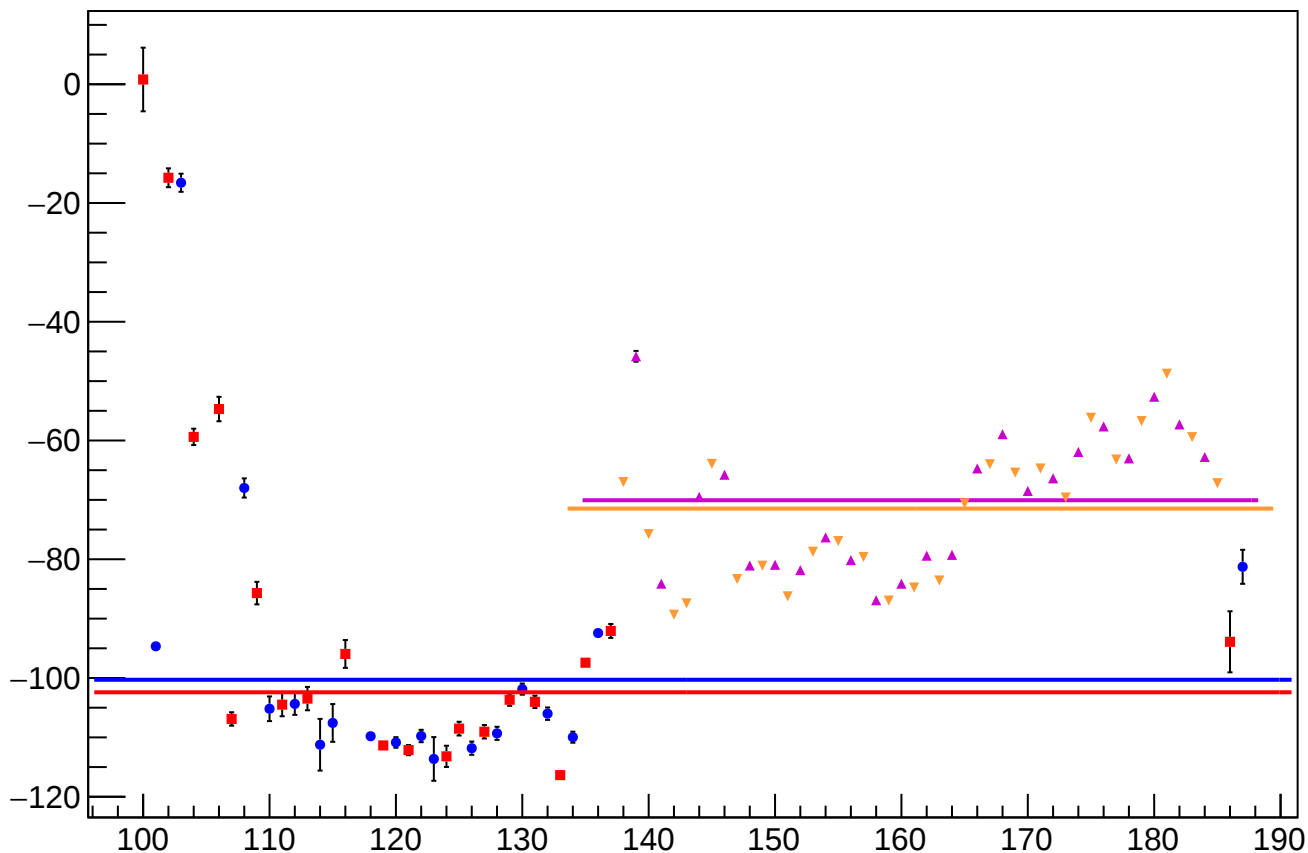
Right: 10.354 ± 0.281 $\chi^2/\text{NDF}: 4880.2/37$

In: 9.366 ± 0.099 $\chi^2/\text{NDF}: 14516.6/40$

Out: 9.334 ± 0.098 $\chi^2/\text{NDF}: 15979.2/44$

All: 9.350 ± 0.070 $\chi^2/\text{NDF}: 30495.8/85$

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -100.295 ± 0.250 $\chi^2/\text{NDF}: 4503.3/17$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -102.408 ± 0.246 $\chi^2/\text{NDF}: 6097.7/19$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

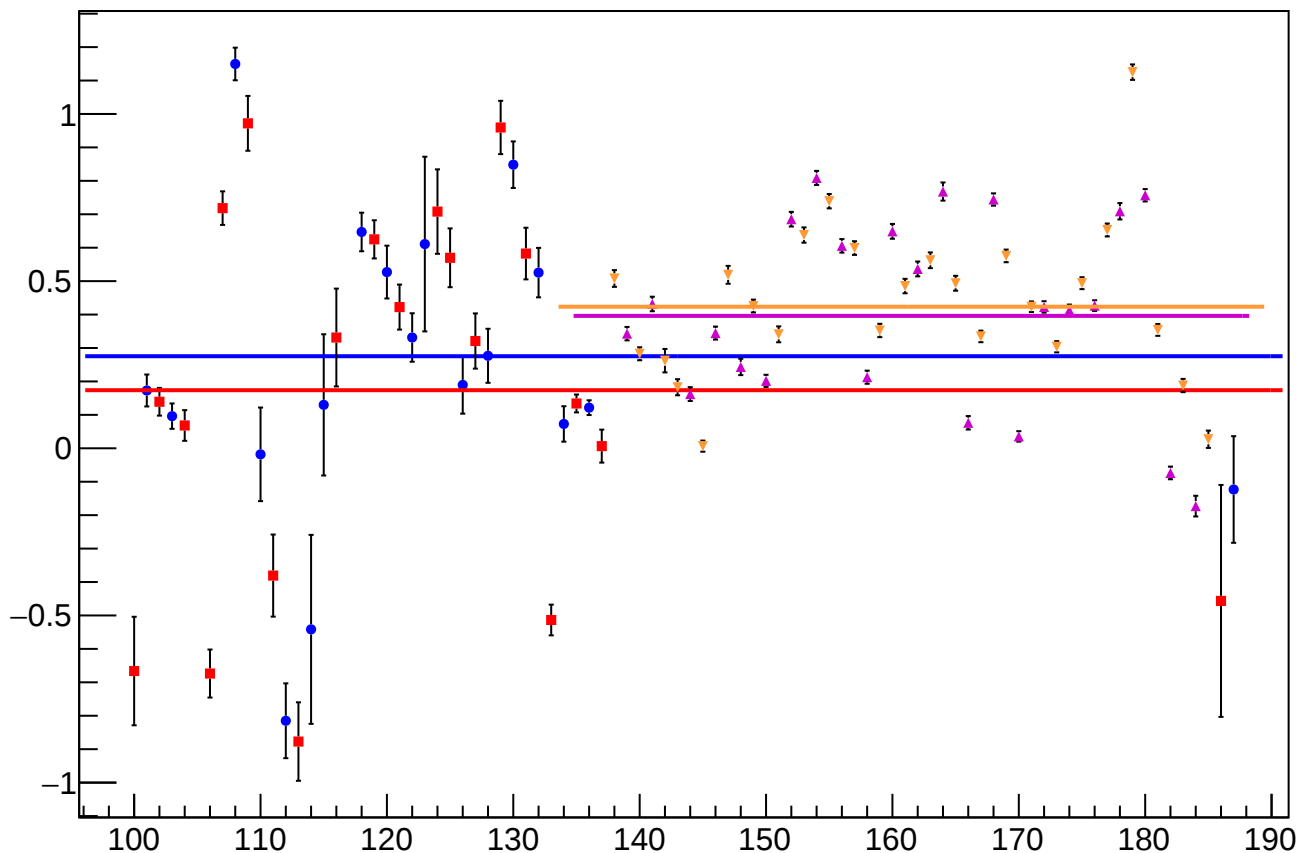
Right: -101.367 ± 0.176 $\chi^2/\text{NDF}: 10637.2/37$

In: -73.646 ± 0.086 $\chi^2/\text{NDF}: 30444.4/40$

Out: -75.057 ± 0.084 $\chi^2/\text{NDF}: 36448.9/44$

All: -74.369 ± 0.060 $\chi^2/\text{NDF}: 67031.0/85$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.275 $\pm$ 0.013 χ^2 /NDF: 659.8/17

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.174 $\pm$ 0.013 χ^2 /NDF: 969.4/19

Left In: 0.396 $\pm$ 0.004 χ^2 /NDF:4051.5/22

Left: 0.410 $\pm$ 0.003 χ^2 /NDF: 6958.5/47

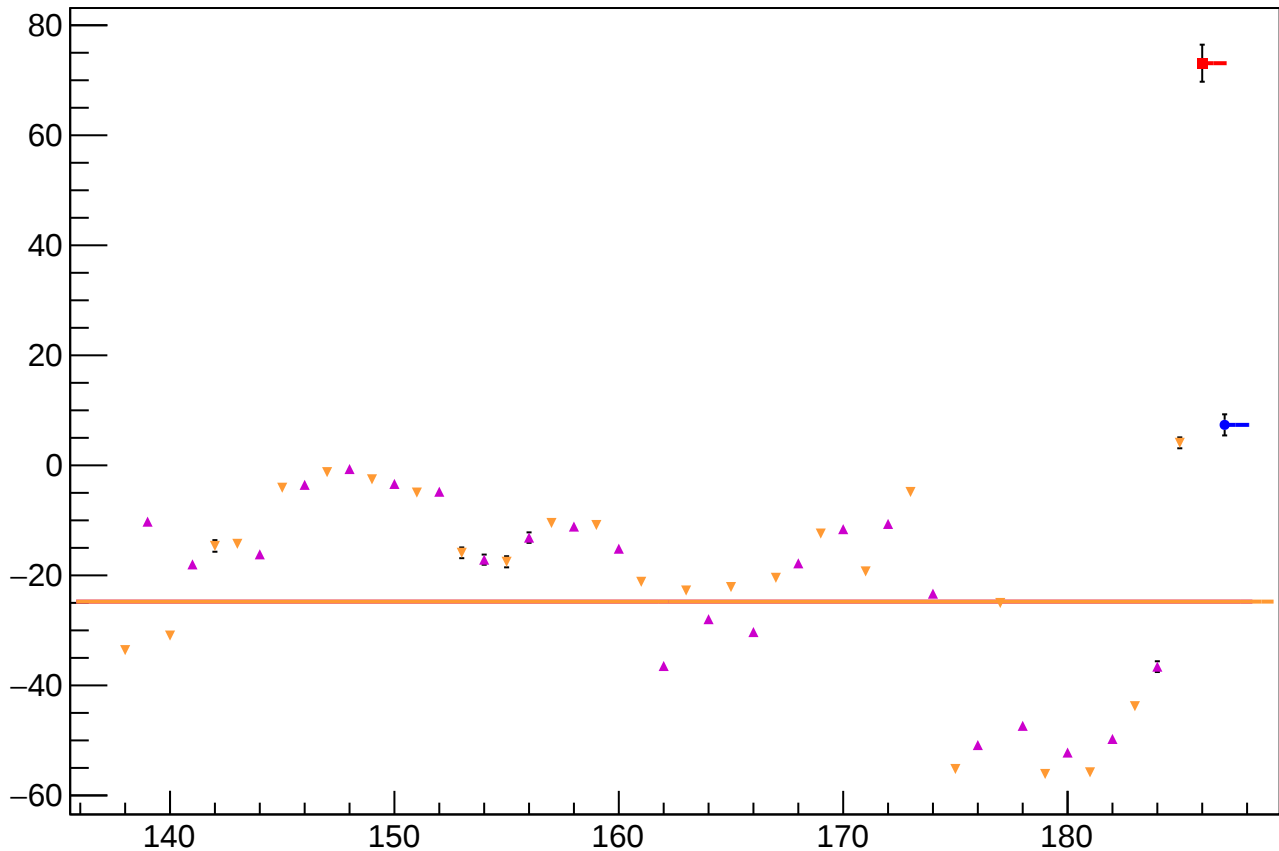
Right: 0.225 $\pm$ 0.010 χ^2 /NDF: 1657.6/37

In: 0.386 $\pm$ 0.004 χ^2 /NDF:4784.4/40

Out: 0.402 $\pm$ 0.004 χ^2 /NDF:4168.5/44

All: 0.394 $\pm$ 0.003 χ^2 /NDF: 8962.0/85

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: 73.101+/-3.369 χ^2/NDF : 0.0/0

Left In: -24.775+/-0.143 χ^2/NDF :14807.4/22

Left: -24.772+/-0.100 χ^2/NDF : 33126.2/47

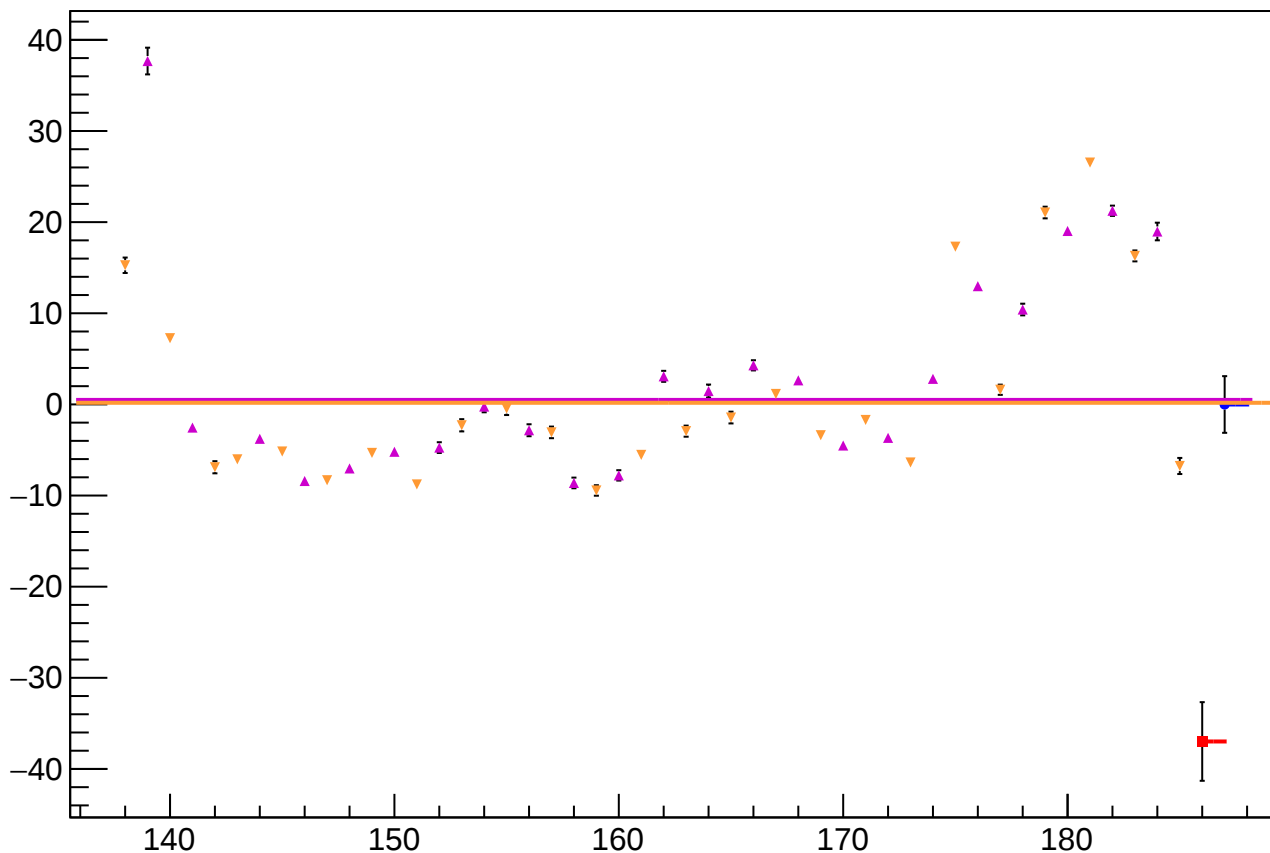
Right: 23.481+/-1.668 χ^2/NDF : 287.5/1

In: -24.598+/-0.142 χ^2/NDF :15085.9/23

Out: -24.601+/-0.139 χ^2/NDF :19161.4/25

All: -24.600+/-0.100 χ^2/NDF : 34247.3/49

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.009 ± 3.109 $\chi^2/\text{NDF}: 0.0/0$

Left Out: 0.177 ± 0.109 $\chi^2/\text{NDF}: 8295.6/24$

Right Out: -36.986 ± 4.315 $\chi^2/\text{NDF}: 0.0/0$

Left In: 0.493 ± 0.112 $\chi^2/\text{NDF}: 6555.4/22$

Left: 0.330 ± 0.078 $\chi^2/\text{NDF}: 14855.0/47$

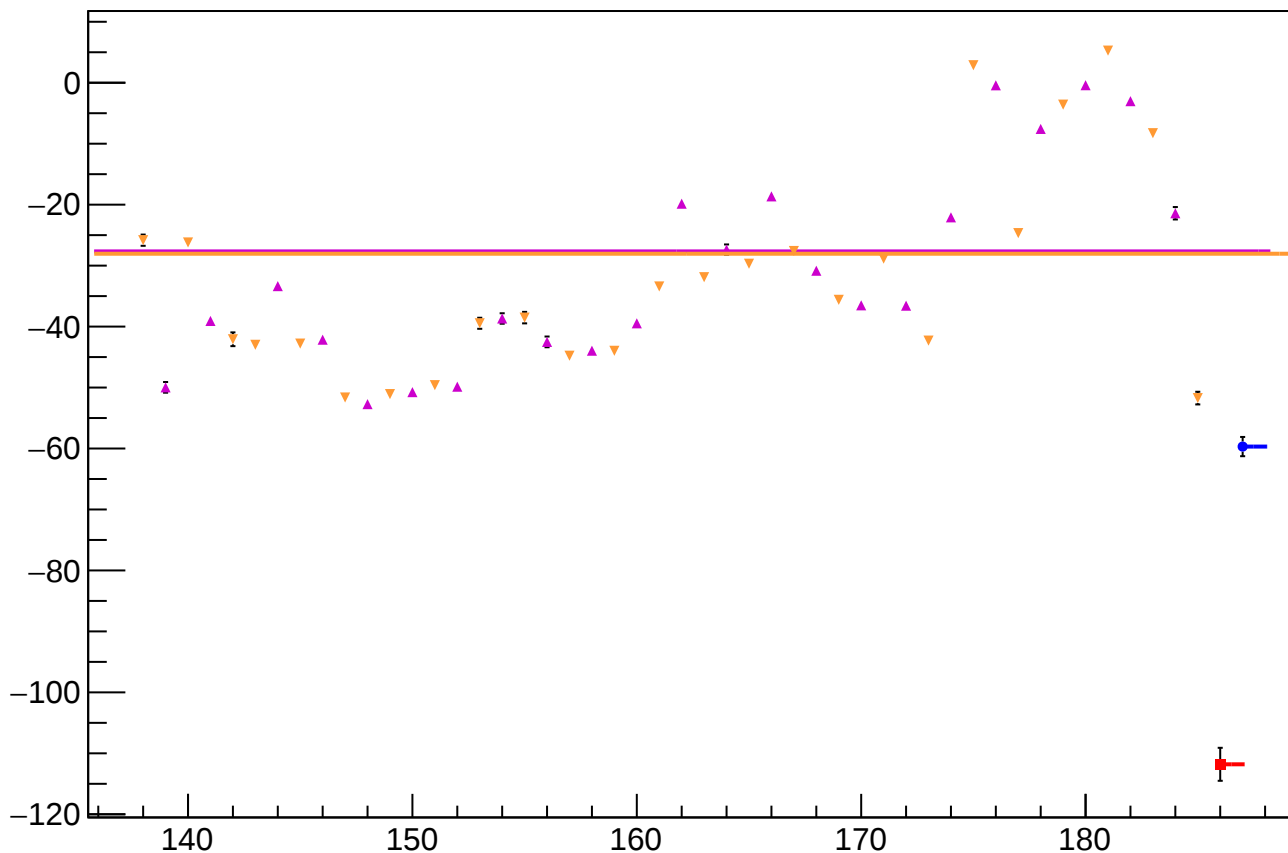
Right: -12.645 ± 2.522 $\chi^2/\text{NDF}: 48.4/1$

In: 0.493 ± 0.112 $\chi^2/\text{NDF}: 6555.4/23$

Out: 0.154 ± 0.108 $\chi^2/\text{NDF}: 8369.7/25$

All: 0.318 ± 0.078 $\chi^2/\text{NDF}: 14929.8/49$

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.683 $\pm$ 1.579 χ^2 /NDF: 0.0/0

Left Out: -28.050 $\pm$ 0.140 χ^2 /NDF:17144.5/24

Right Out: -111.801 $\pm$ 2.706 χ^2 /NDF: 0.0/0

Left In: -27.666 $\pm$ 0.142 χ^2 /NDF:15003.2/22

Left: -27.862 $\pm$ 0.100 χ^2 /NDF: 32151.3/47

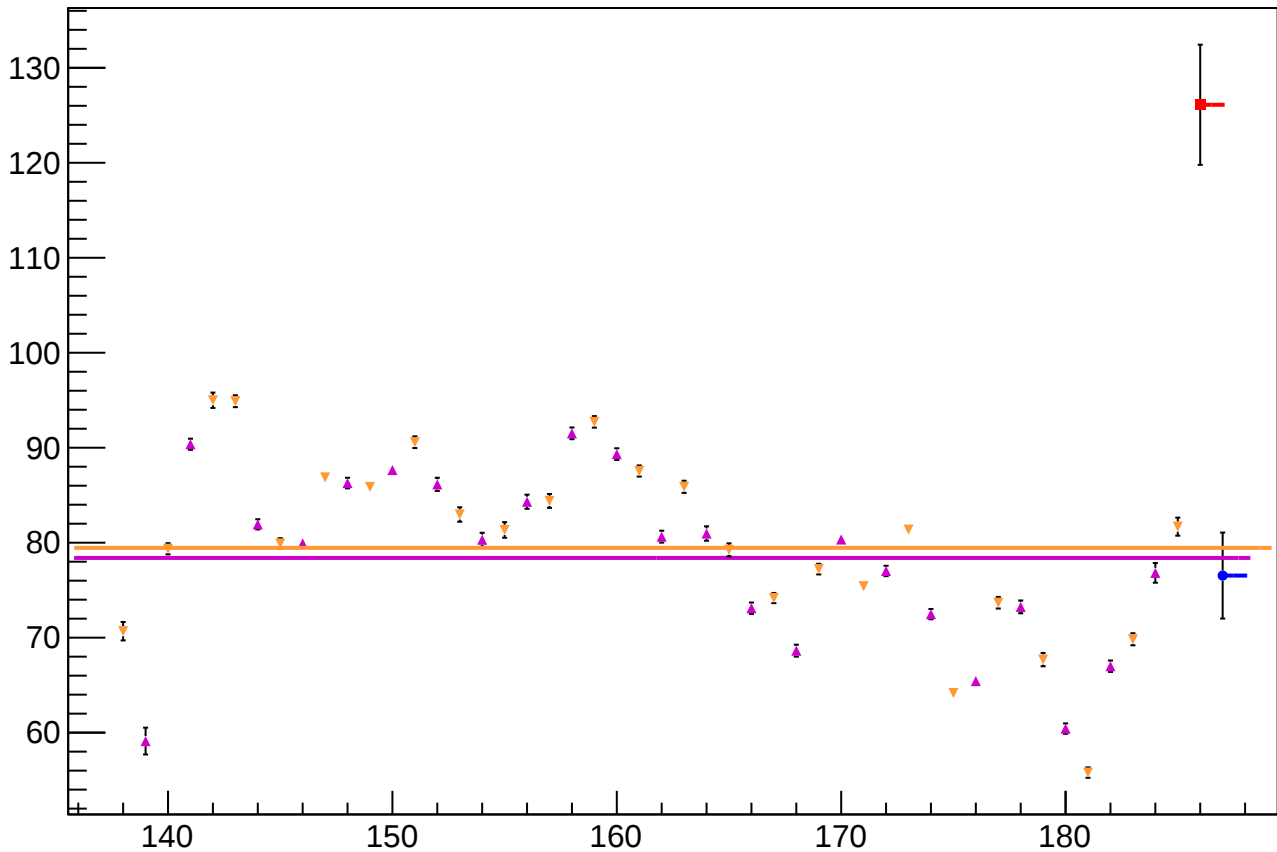
Right: -72.924 $\pm$ 1.364 χ^2 /NDF: 276.8/1

In: -27.925 $\pm$ 0.142 χ^2 /NDF:15411.0/23

Out: -28.273 $\pm$ 0.140 χ^2 /NDF:18100.1/25

All: -28.102 $\pm$ 0.100 χ^2 /NDF: 33514.2/49

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: 126.108+/-6.329 χ^2/NDF : 0.0/0

Left In: 78.396+/-0.127 χ^2/NDF :4707.3/22

Left: 78.941+/-0.088 χ^2/NDF : 10820.4/47

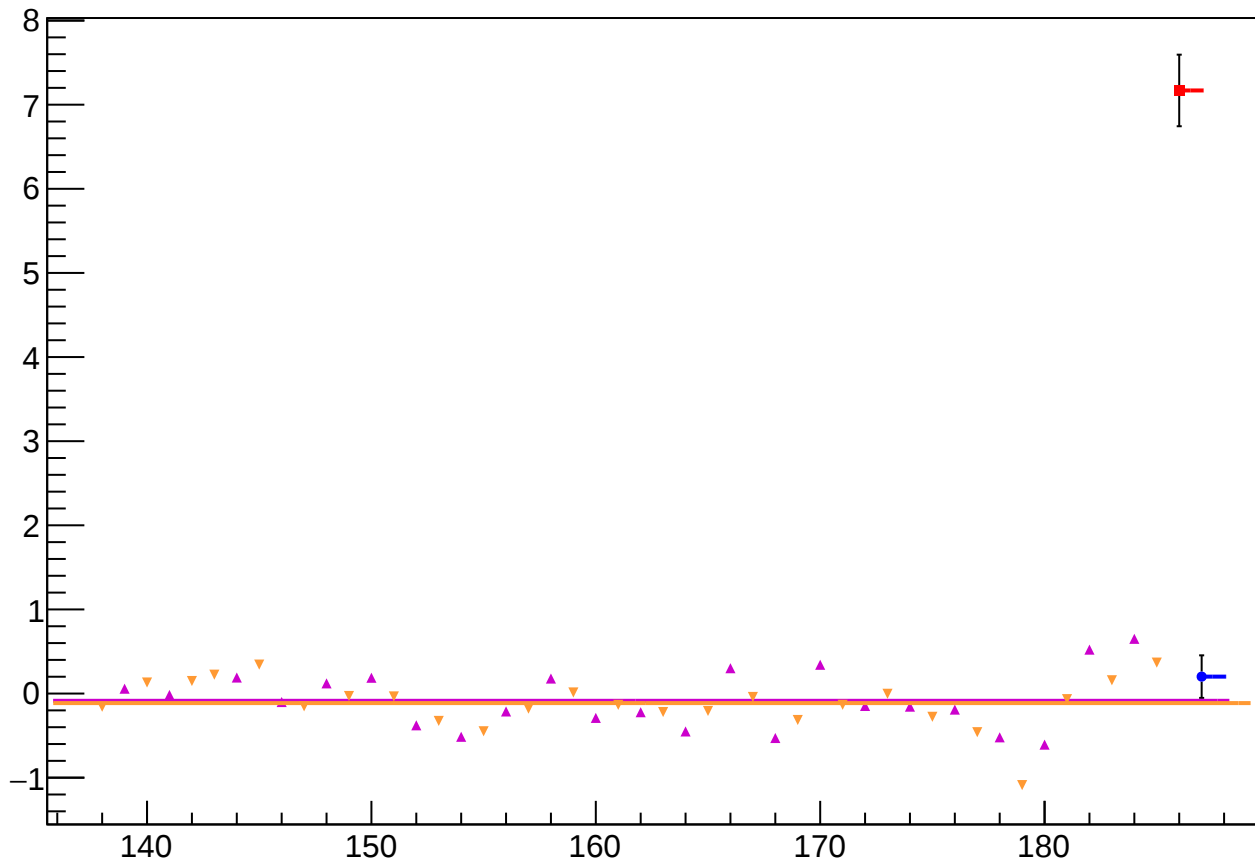
Right: 93.325+/-3.683 χ^2/NDF : 40.6/1

In: 78.395+/-0.127 χ^2/NDF :4707.5/23

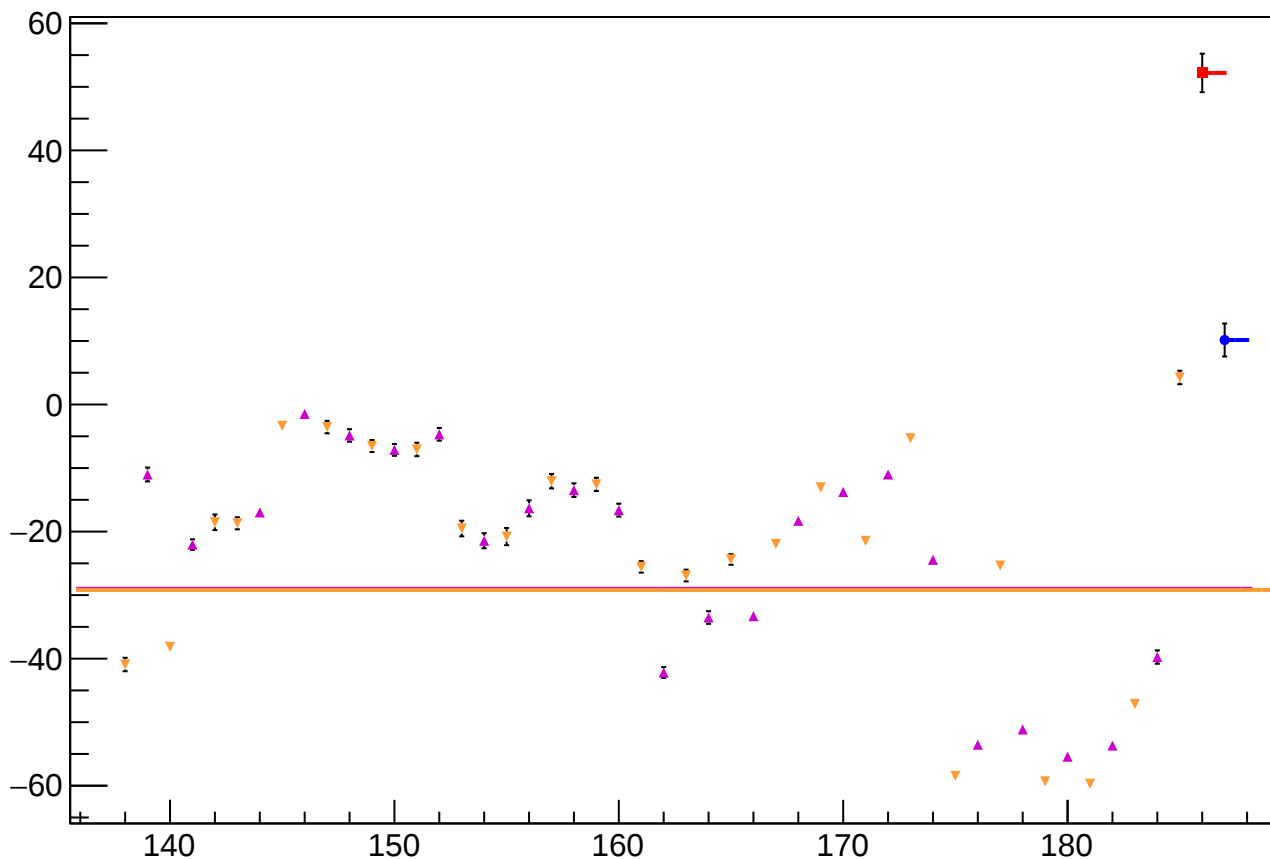
Out: 79.473+/-0.123 χ^2/NDF :6131.4/25

All: 78.949+/-0.088 χ^2/NDF : 10876.2/49

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



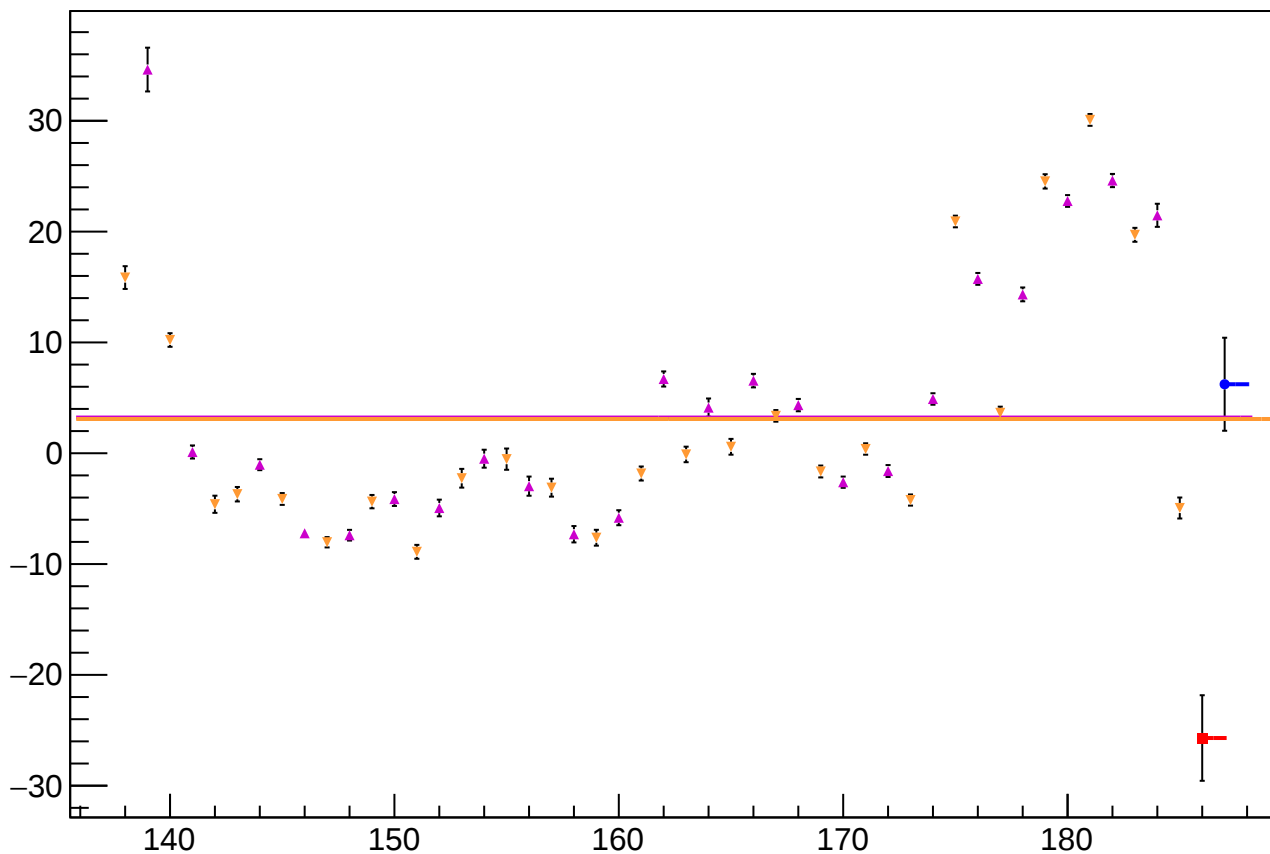
Right In: 10.151+/-2.596 χ^2 /NDF: 0.0/0
 Left Out: -29.180+/-0.157 χ^2 /NDF:16912.2/24
 Right Out: 52.193+/-3.030 χ^2 /NDF: 0.0/0
 Left In: -29.003+/-0.160 χ^2 /NDF:13416.8/22

Left: -29.093+/-0.112 χ^2 /NDF: 30329.6/47
 Right: 27.945+/-1.971 χ^2 /NDF: 111.0/1

In: -28.855+/-0.159 χ^2 /NDF:13643.4/23
 Out: -28.963+/-0.157 χ^2 /NDF:17631.4/25

All: -28.910+/-0.112 χ^2 /NDF: 31275.1/49

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: -25.698+/-3.861 χ^2/NDF : 0.0/0

Left In: 3.221+/-0.127 χ^2/NDF : 6237.6/22

Left: 3.155+/-0.089 χ^2/NDF : 14322.2/47

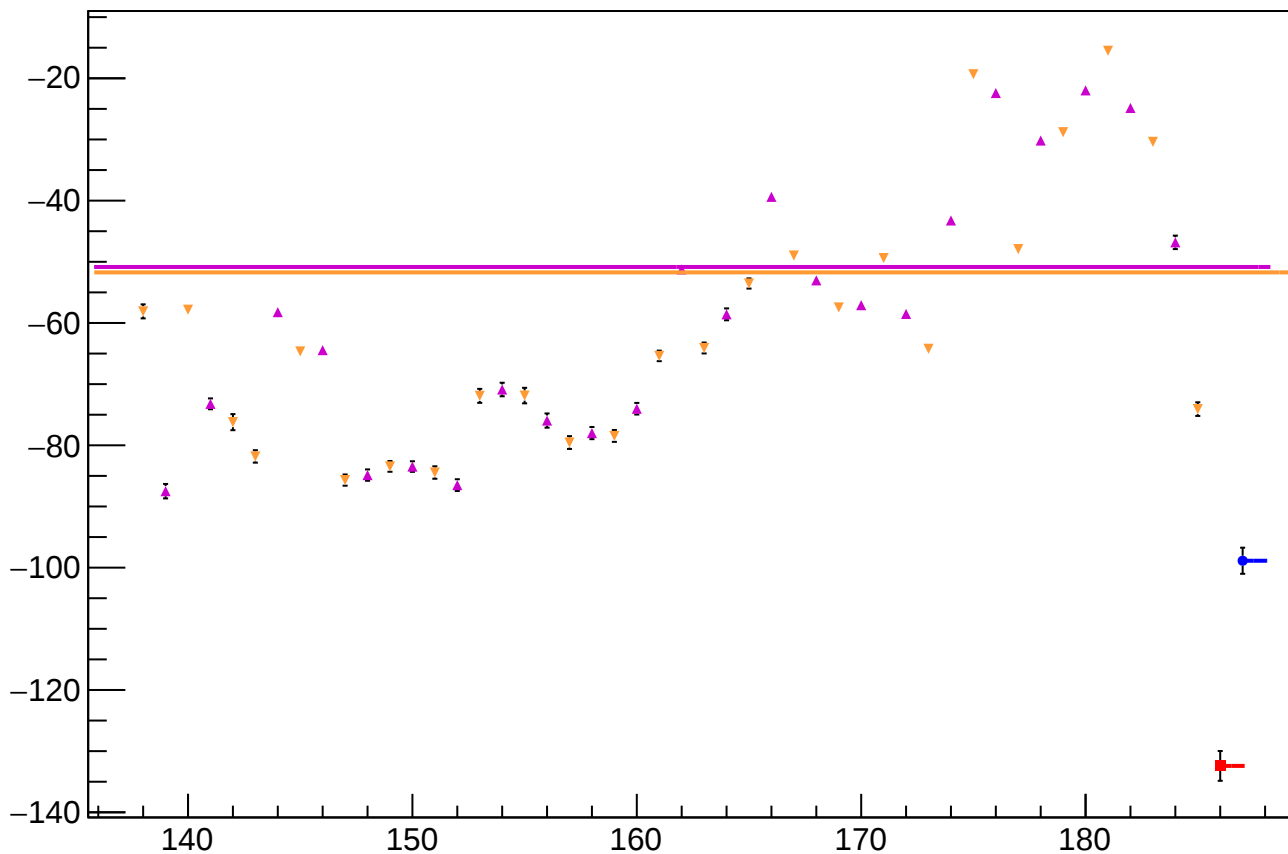
Right: -11.068+/-2.841 χ^2/NDF : 31.3/1

In: 3.224+/-0.127 χ^2/NDF : 6238.1/23

Out: 3.061+/-0.124 χ^2/NDF : 8139.6/25

All: 3.141+/-0.089 χ^2/NDF : 14378.6/49

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: -132.413+/-2.435 χ^2/NDF : 0.0/0

Left In: -50.844+/-0.160 χ^2/NDF :17272.0/22

Left: -51.293+/-0.112 χ^2/NDF : 36825.5/47

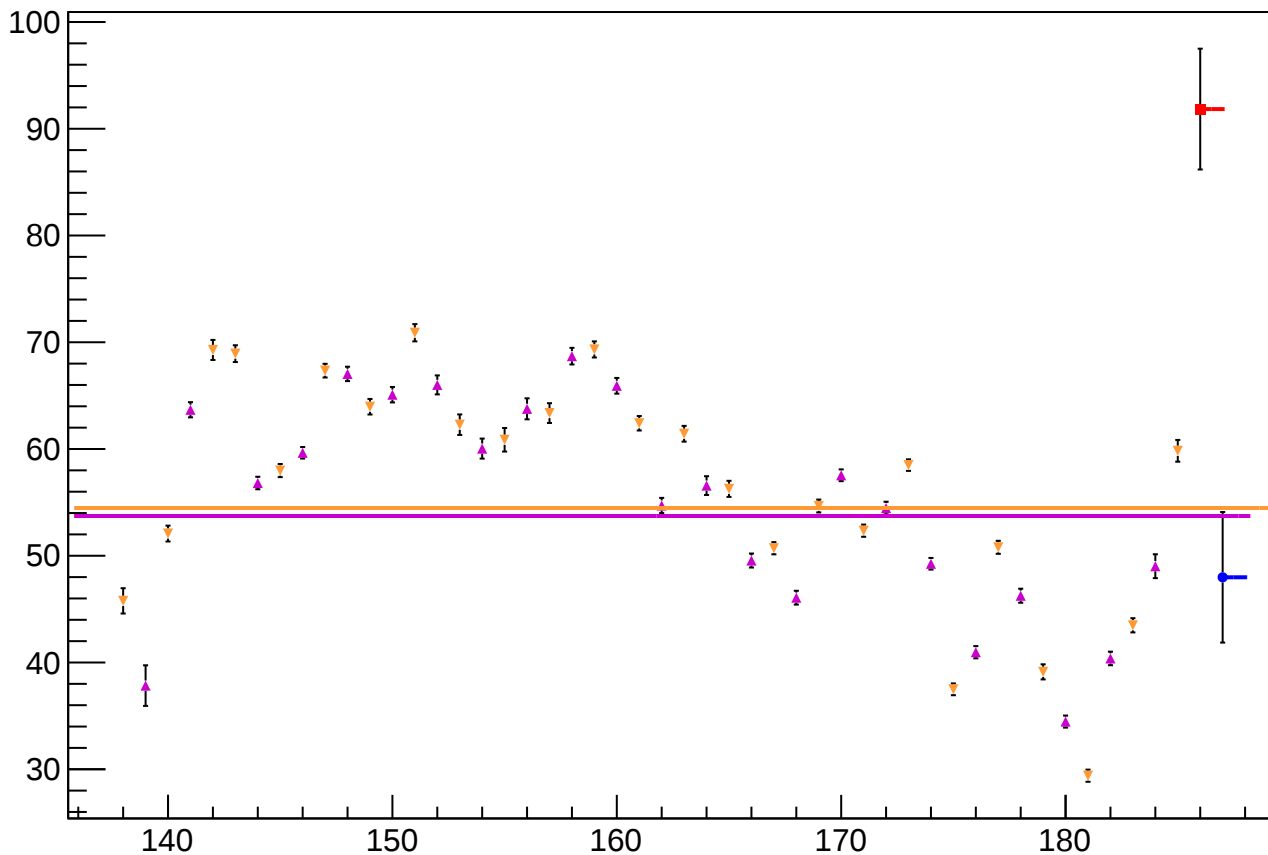
Right: -113.444+/-1.605 χ^2/NDF : 107.3/1

In: -51.113+/-0.160 χ^2/NDF :17775.8/23

Out: -52.067+/-0.158 χ^2/NDF :20631.5/25

All: -51.596+/-0.112 χ^2/NDF : 38425.3/49

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: 91.843+/-5.659 χ^2/NDF : 0.0/0

Left In: 53.724+/-0.143 χ^2/NDF : 4585.7/22

Left: 54.107+/-0.100 χ^2/NDF : 10866.7/47

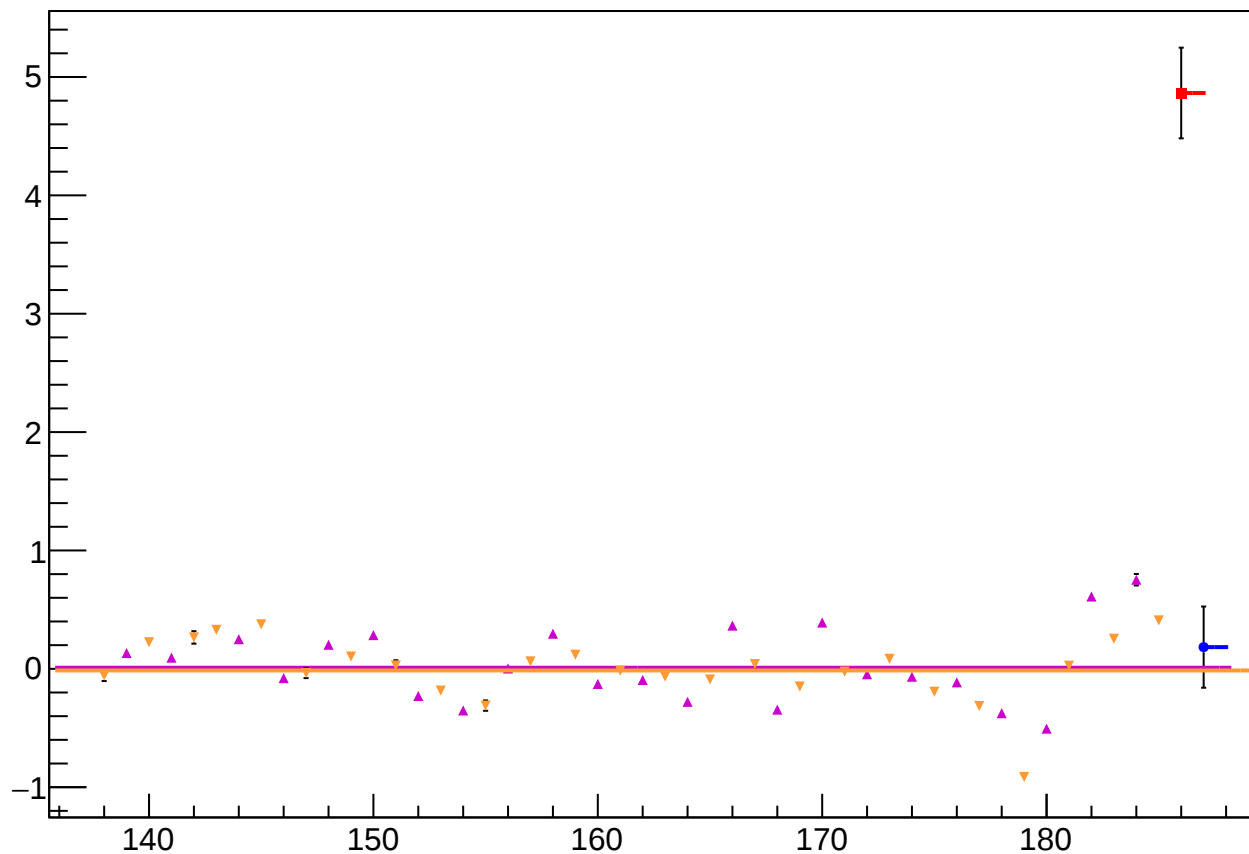
Right: 71.616+/-4.154 χ^2/NDF : 27.7/1

In: 53.720+/-0.143 χ^2/NDF : 4586.6/23

Out: 54.499+/-0.140 χ^2/NDF : 6310.5/25

All: 54.118+/-0.100 χ^2/NDF : 10912.2/49

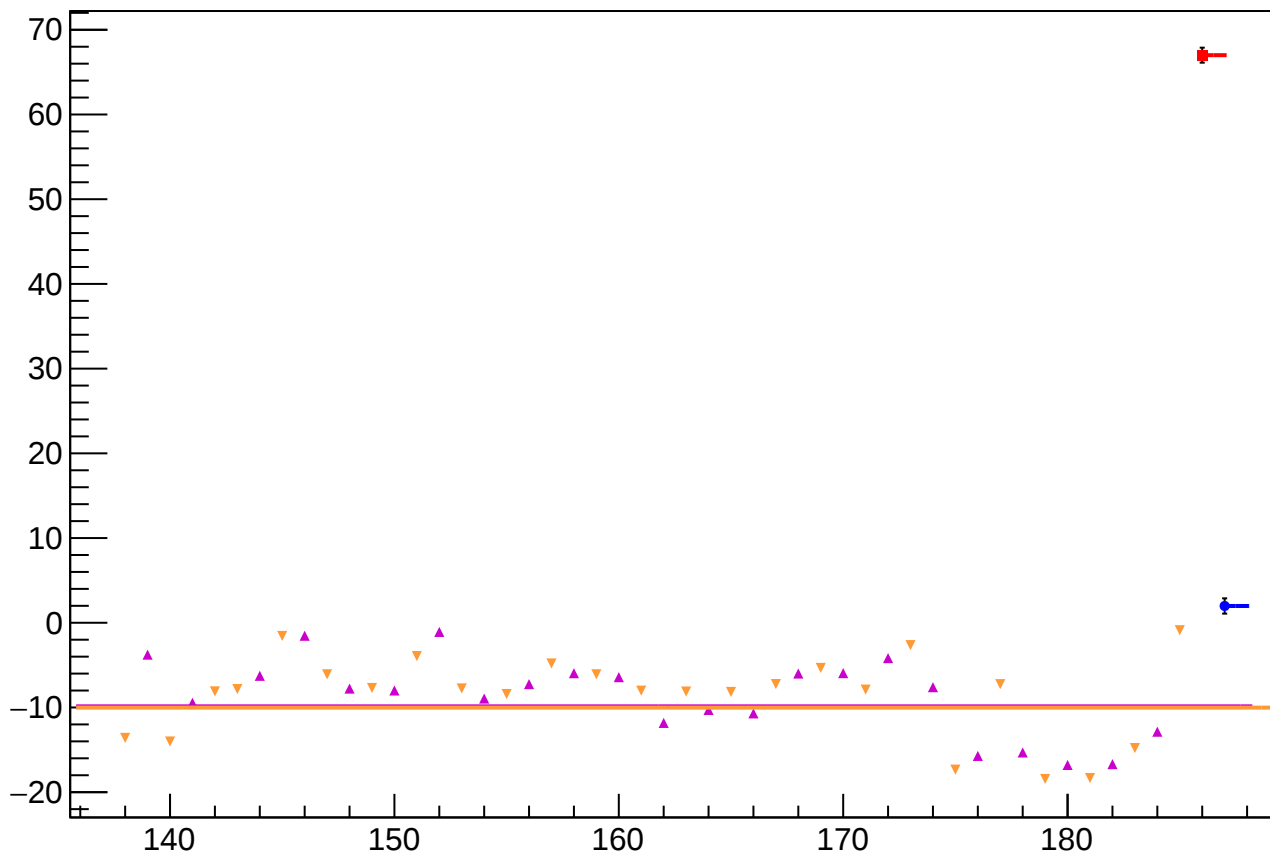
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



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: 4.865+/-0.383 χ^2/NDF : 0.0/0
 Left In: 0.009+/-0.007 χ^2/NDF :2220.5/22

Left: -0.003+/-0.005 χ^2/NDF : 3881.4/47
 Right: 2.266+/-0.255 χ^2/NDF : 82.9/1
 In: 0.009+/-0.007 χ^2/NDF :2220.8/23
 Out: -0.012+/-0.006 χ^2/NDF :1816.9/25
 All: -0.002+/-0.005 χ^2/NDF : 4043.1/49

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: 67.003+/-0.885 χ^2/NDF : 0.0/0

Left In: -9.865+/-0.051 χ^2/NDF :9345.4/22

Left: -9.942+/-0.036 χ^2/NDF : 21902.5/47

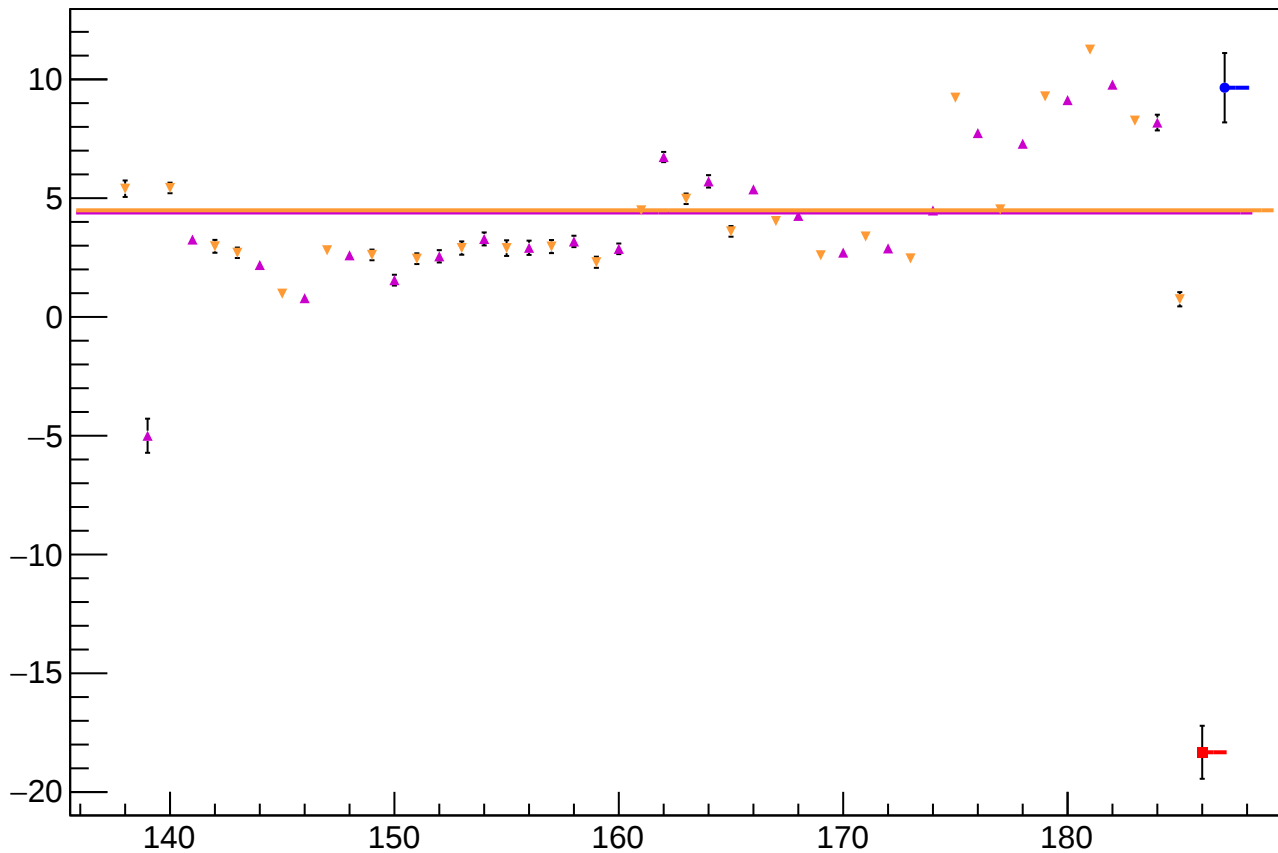
Right: 35.113+/-0.632 χ^2/NDF : 2648.4/1

In: -9.827+/-0.051 χ^2/NDF :9517.3/23

Out: -9.765+/-0.051 χ^2/NDF :20104.5/25

All: -9.796+/-0.036 χ^2/NDF : 29622.6/49

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: -18.325 $\pm$ 1.116 χ^2 /NDF: 0.0/0

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

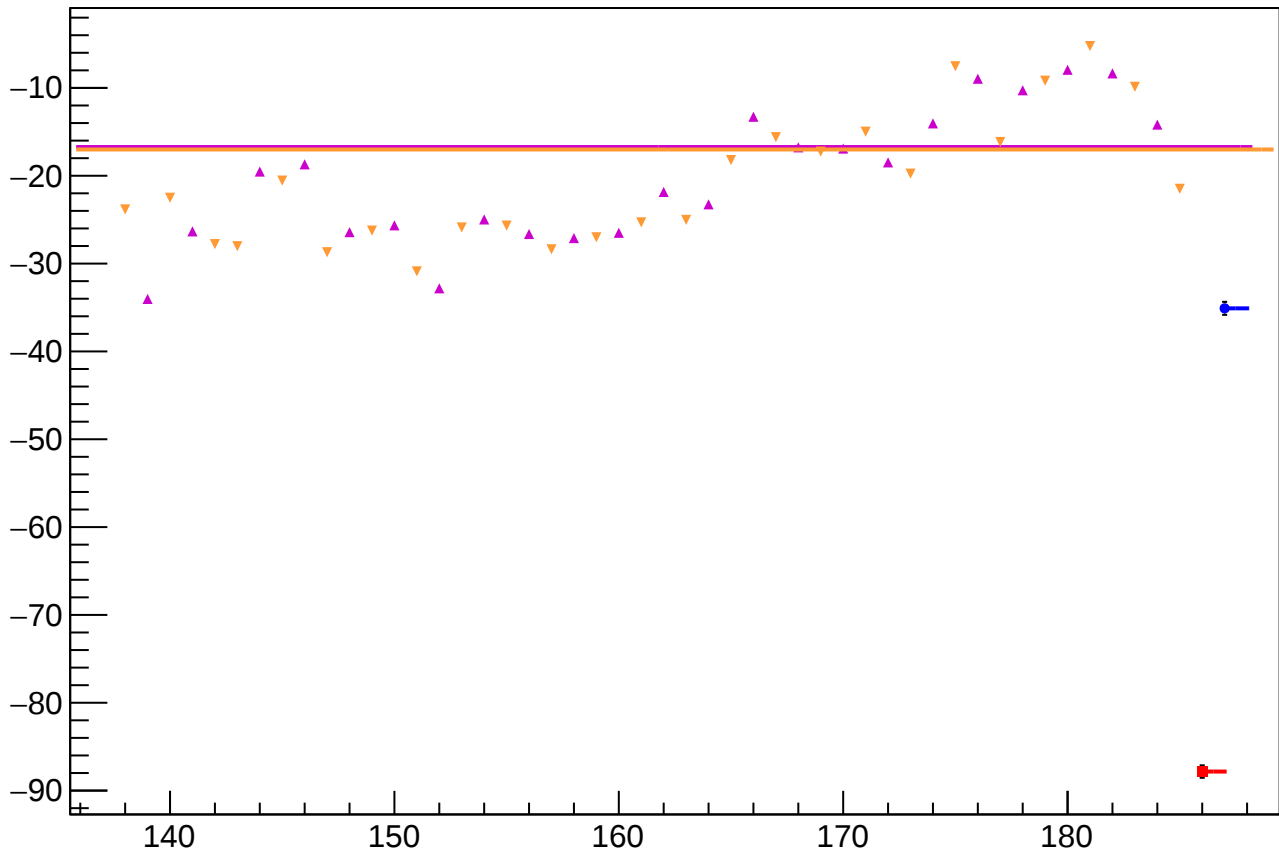
Right: -8.006 $\pm$ 0.887 χ^2 /NDF: 231.7/1

In: 4.400 $\pm$ 0.041 χ^2 /NDF:4243.3/23

Out: 4.458 $\pm$ 0.041 χ^2 /NDF:5249.5/25

All: 4.430 $\pm$ 0.029 χ^2 /NDF: 9493.9/49

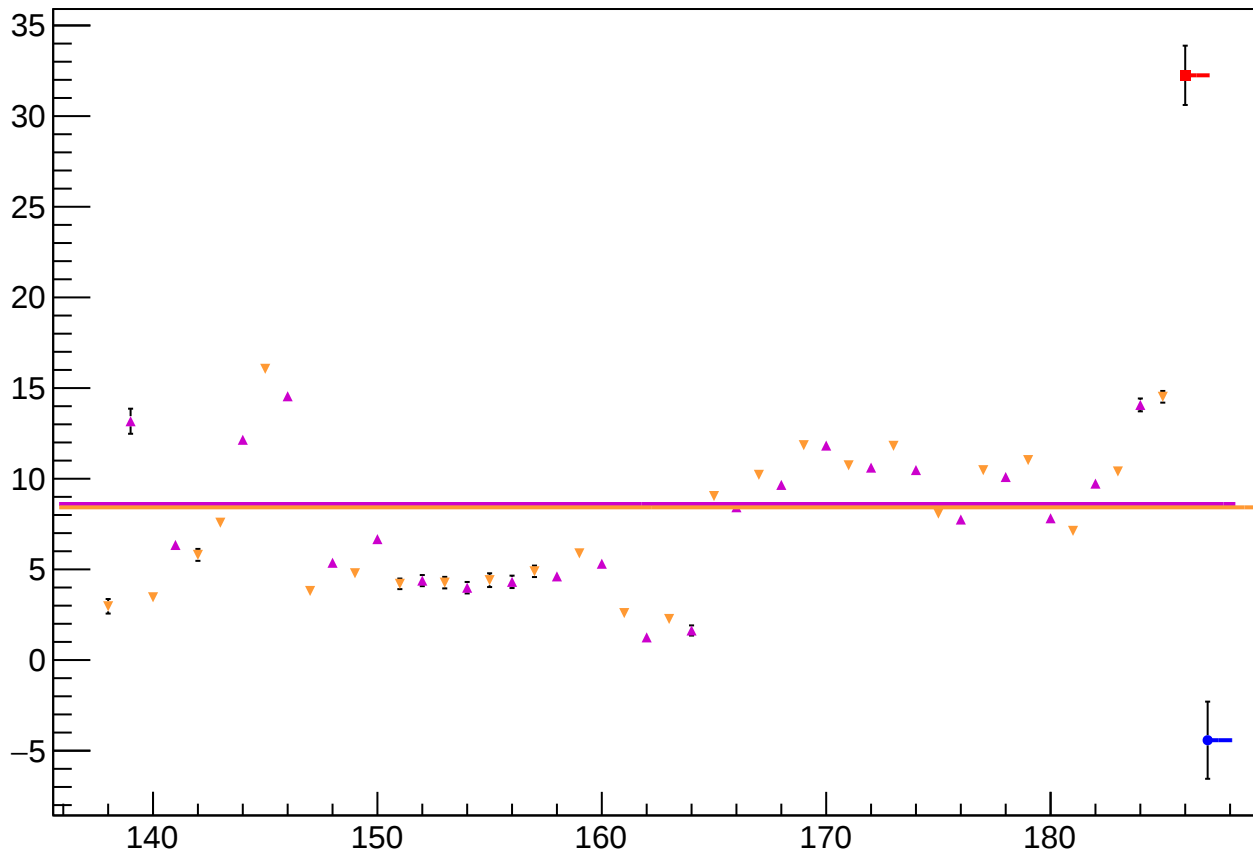
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



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: -87.833 ± 0.711 $\chi^2/\text{NDF}: 0.0/0$
 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: -62.570 ± 0.513 $\chi^2/\text{NDF}: 2636.0/1$
 In: -16.820 ± 0.051 $\chi^2/\text{NDF}: 19387.9/23$
 Out: -17.372 ± 0.051 $\chi^2/\text{NDF}: 31968.7/25$
 All: -17.099 ± 0.036 $\chi^2/\text{NDF}: 51414.7/49$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.422 $\pm$ 2.128 χ^2 /NDF: 0.0/0

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF:6470.1/24

Right Out: 32.250 $\pm$ 1.635 χ^2 /NDF: 0.0/0

Left In: 8.606 $\pm$ 0.046 χ^2 /NDF:5504.2/22

Left: 8.513 $\pm$ 0.032 χ^2 /NDF: 11982.4/47

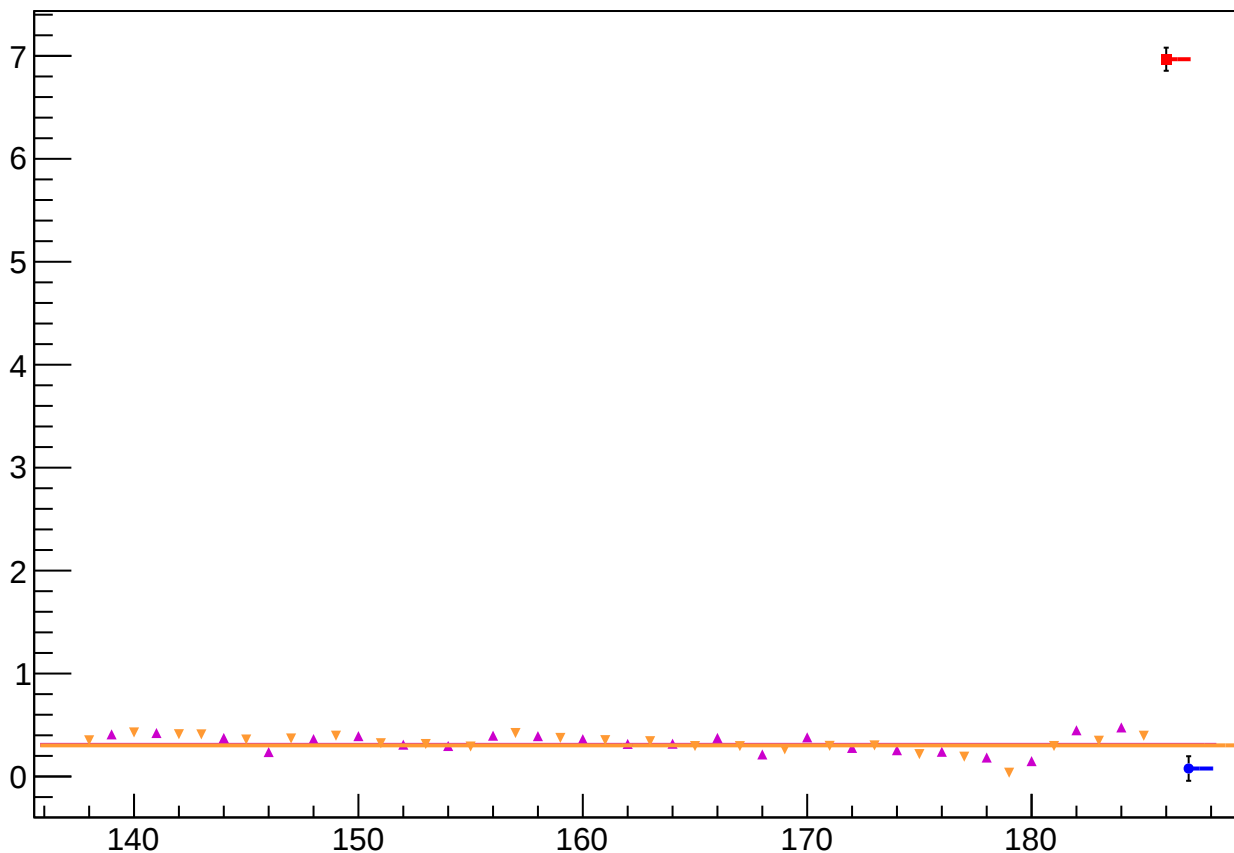
Right: 18.636 $\pm$ 1.297 χ^2 /NDF: 186.7/1

In: 8.600 $\pm$ 0.046 χ^2 /NDF:5541.7/23

Out: 8.440 $\pm$ 0.046 χ^2 /NDF:6682.3/25

All: 8.519 $\pm$ 0.032 χ^2 /NDF: 12230.0/49

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: 6.968+/-0.112 χ^2/NDF : 0.0/0

Left In: 0.307+/-0.002 χ^2/NDF :1699.5/22

Left: 0.305+/-0.001 χ^2/NDF : 3293.0/47

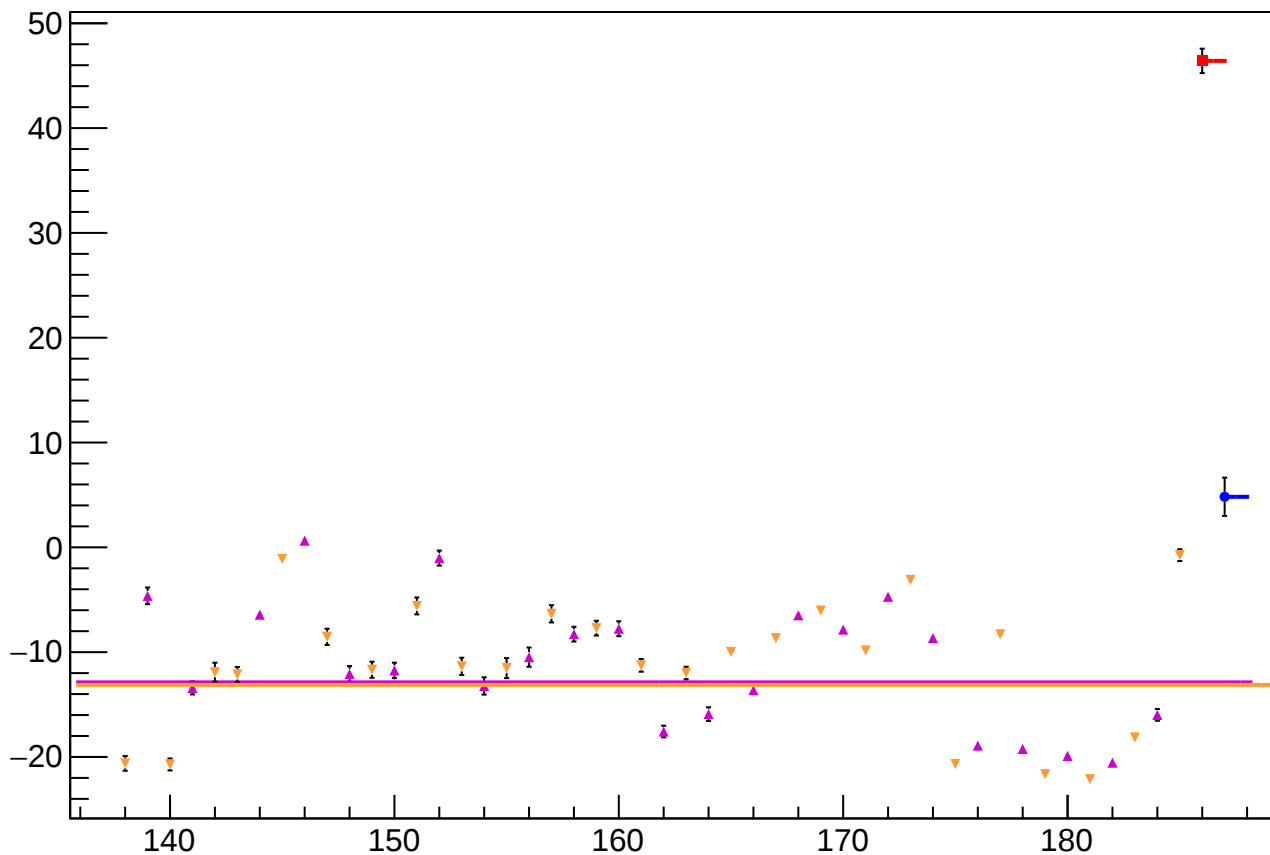
Right: 3.735+/-0.082 χ^2/NDF : 1769.9/1

In: 0.307+/-0.002 χ^2/NDF :1703.2/23

Out: 0.305+/-0.002 χ^2/NDF :5119.2/25

All: 0.306+/-0.001 χ^2/NDF : 6823.1/49

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: 46.411+/-1.167 χ^2/NDF : 0.0/0

Left In: -12.885+/-0.095 χ^2/NDF : 4776.2/22

Left: -13.007+/-0.067 χ^2/NDF : 10757.0/47

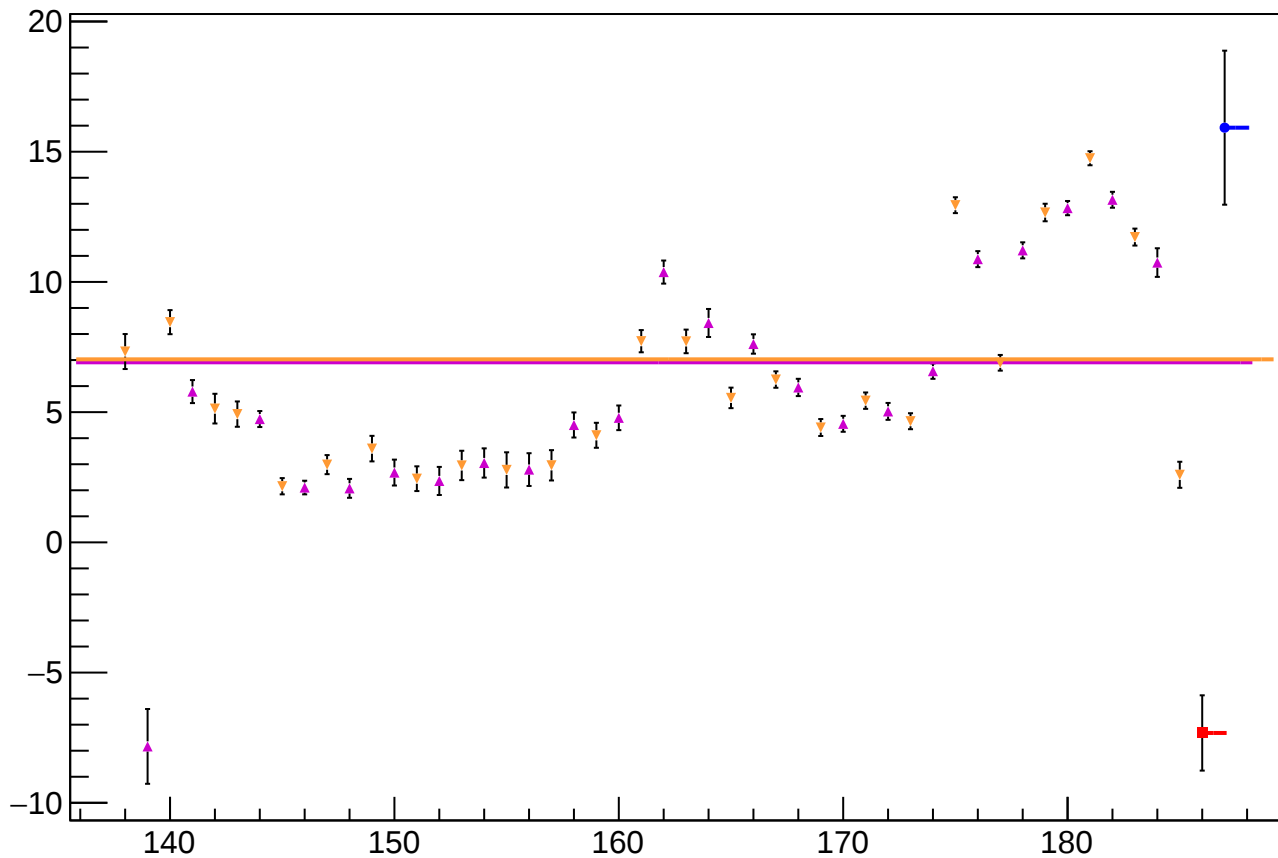
Right: 34.384+/-0.983 χ^2/NDF : 367.6/1

In: -12.838+/-0.095 χ^2/NDF : 4869.6/23

Out: -12.744+/-0.093 χ^2/NDF : 8565.8/25

All: -12.790+/-0.067 χ^2/NDF : 13436.0/49

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: -7.318+/-1.446 χ^2/NDF : 0.0/0

Left In: 6.914+/-0.078 χ^2/NDF :2428.2/22

Left: 6.971+/-0.055 χ^2/NDF : 5094.6/47

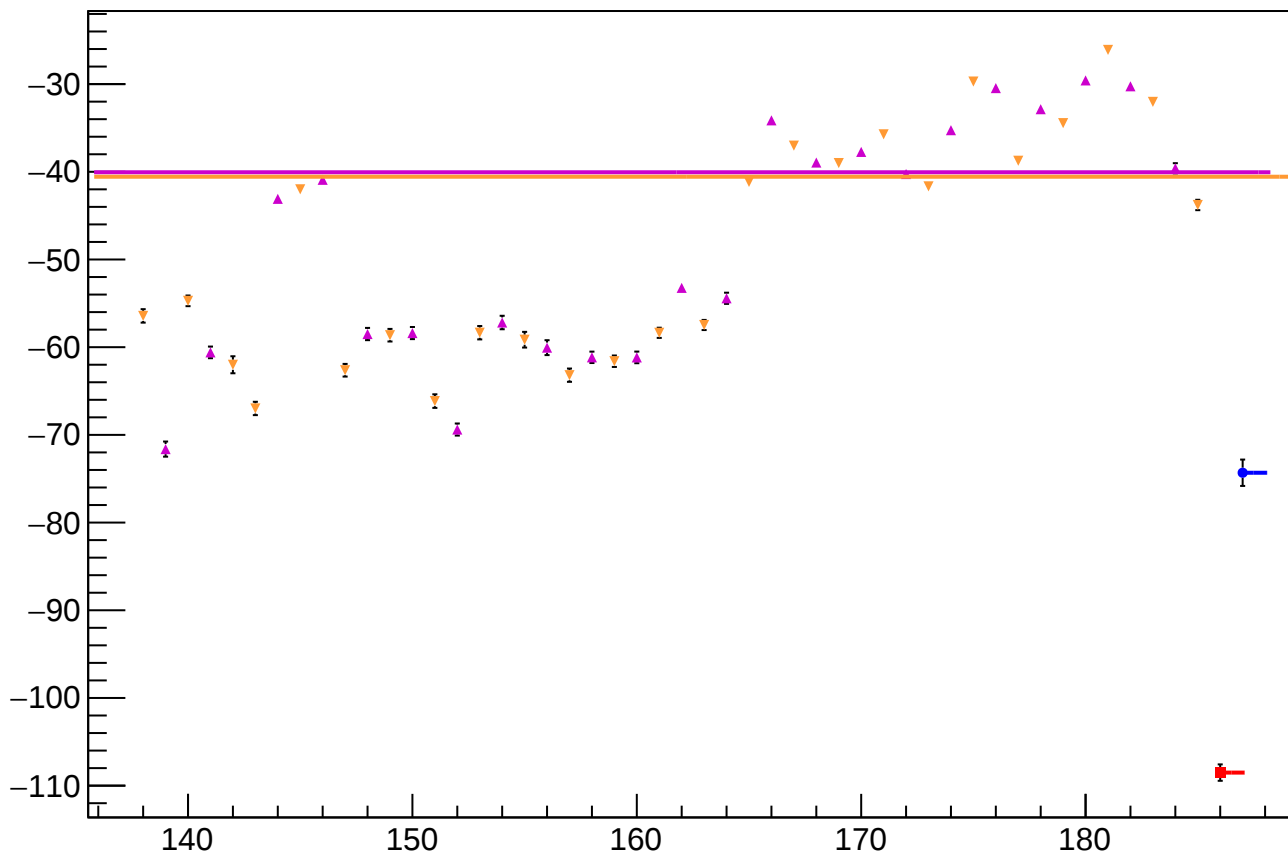
Right: -2.836+/-1.299 χ^2/NDF : 49.9/1

In: 6.920+/-0.078 χ^2/NDF :2437.5/23

Out: 6.987+/-0.077 χ^2/NDF :2763.5/25

All: 6.954+/-0.055 χ^2/NDF : 5201.4/49

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: -108.510 ± 0.936 $\chi^2/\text{NDF}: 0.0/0$

Left In: -40.053 ± 0.096 $\chi^2/\text{NDF}: 13927.3/22$

Left: -40.310 ± 0.067 $\chi^2/\text{NDF}: 29579.2/47$

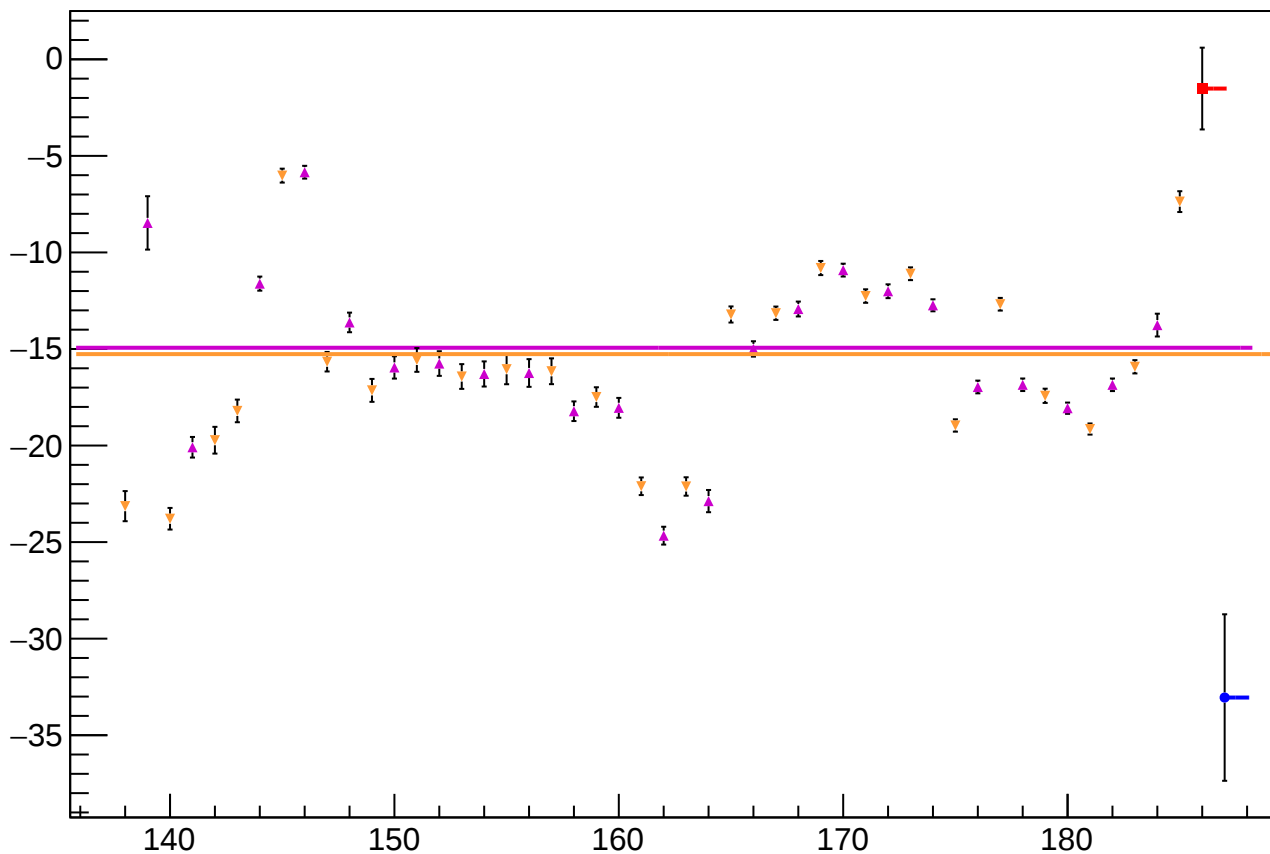
Right: -98.962 ± 0.794 $\chi^2/\text{NDF}: 372.9/1$

In: -40.192 ± 0.095 $\chi^2/\text{NDF}: 14444.9/23$

Out: -41.252 ± 0.094 $\chi^2/\text{NDF}: 20858.0/25$

All: -40.729 ± 0.067 $\chi^2/\text{NDF}: 35365.4/49$

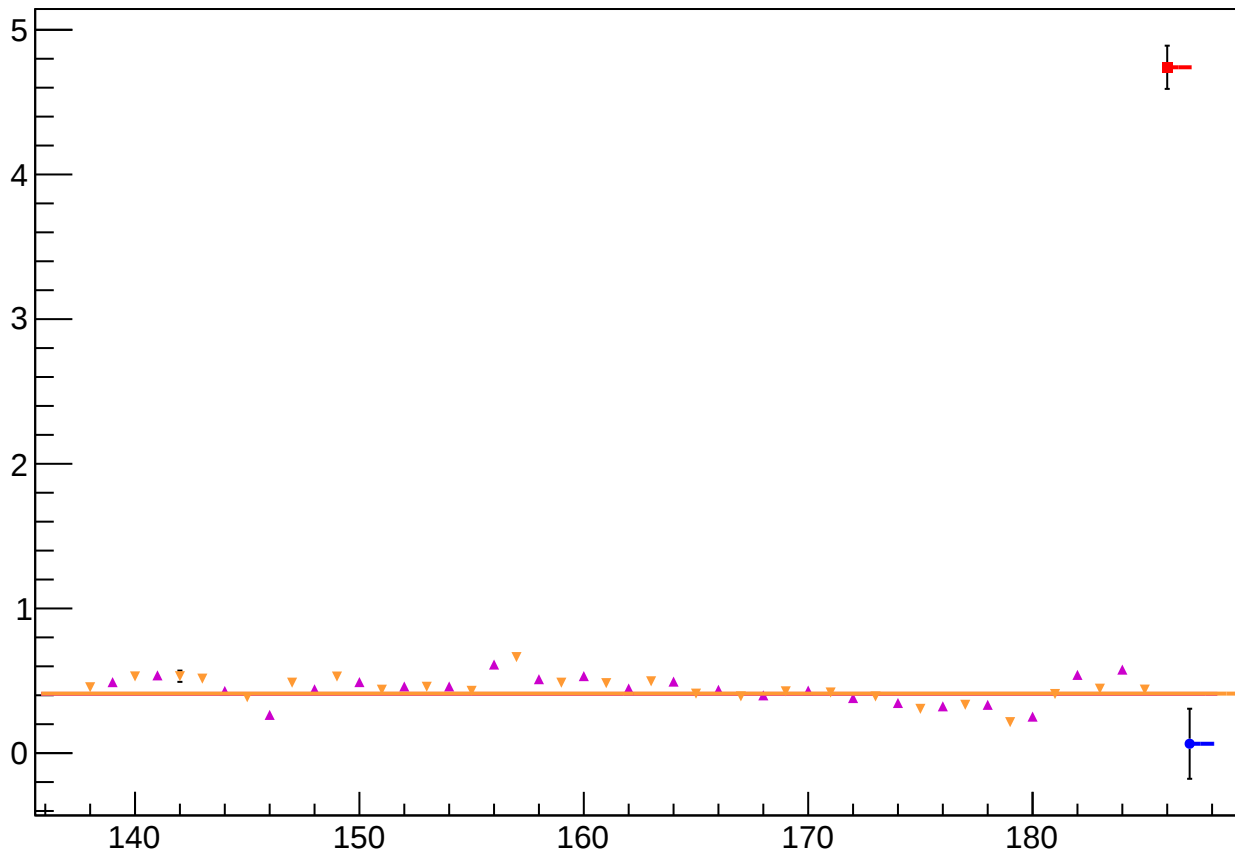
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -33.050 $\pm$ 4.311 χ^2 /NDF: 0.0/0
 Left Out: -15.266 $\pm$ 0.086 χ^2 /NDF:2595.5/24
 Right Out: -1.514 $\pm$ 2.118 χ^2 /NDF: 0.0/0
 Left In: -14.936 $\pm$ 0.087 χ^2 /NDF:2199.7/22

Left: -15.103 $\pm$ 0.061 χ^2 /NDF: 4802.4/47
 Right: -7.644 $\pm$ 1.901 χ^2 /NDF: 43.1/1
 In: -14.944 $\pm$ 0.087 χ^2 /NDF:2217.3/23
 Out: -15.243 $\pm$ 0.086 χ^2 /NDF:2637.6/25
 All: -15.095 $\pm$ 0.061 χ^2 /NDF: 4860.9/49

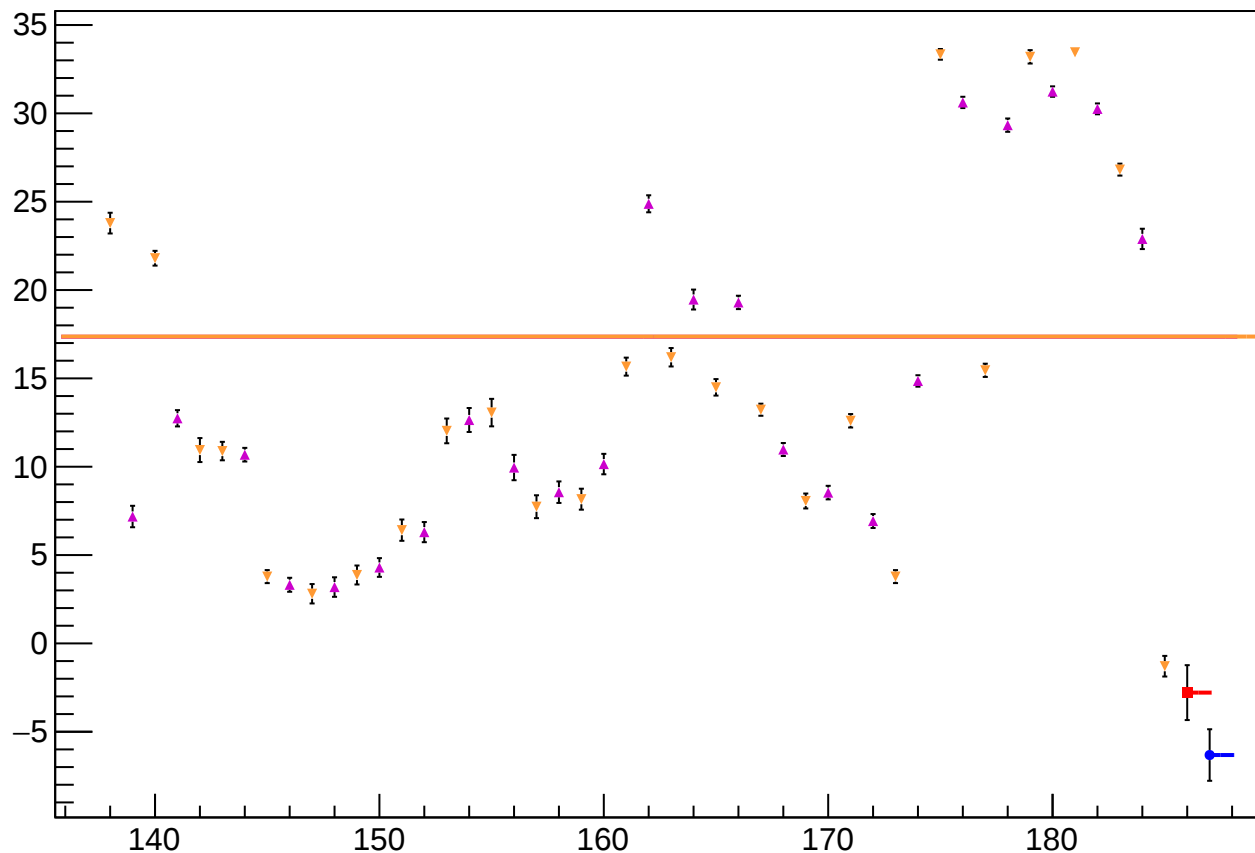
reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



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: 4.741+/-0.149 χ^2/NDF : 0.0/0
 Left In: 0.409+/-0.004 χ^2/NDF : 557.8/22

Left: 0.410+/-0.003 χ^2/NDF : 986.7/47
 Right: 3.452+/-0.127 χ^2/NDF : 270.1/1
 In: 0.409+/-0.004 χ^2/NDF : 559.9/23
 Out: 0.414+/-0.004 χ^2/NDF : 1268.2/25
 All: 0.412+/-0.003 χ^2/NDF : 1828.9/49

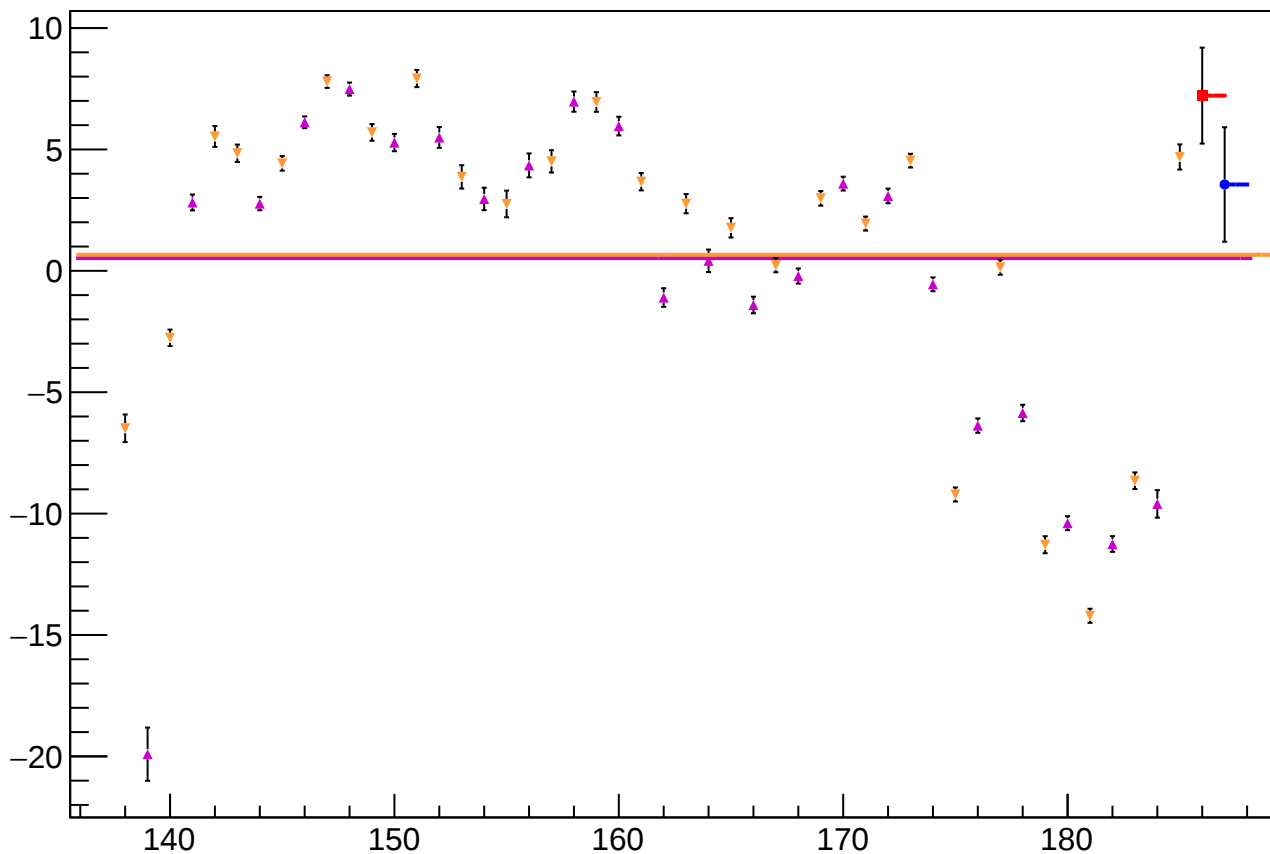
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



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: -2.785+/-1.554 χ^2/NDF : 0.0/0
 Left In: 17.355+/-0.089 χ^2/NDF :12745.1/22

Left: 17.361+/-0.062 χ^2/NDF : 29082.8/47
 Right: -4.663+/-1.063 χ^2/NDF : 2.7/1
 In: 17.268+/-0.089 χ^2/NDF :13007.5/23
 Out: 17.304+/-0.087 χ^2/NDF :16505.4/25
 All: 17.286+/-0.062 χ^2/NDF : 29513.0/49

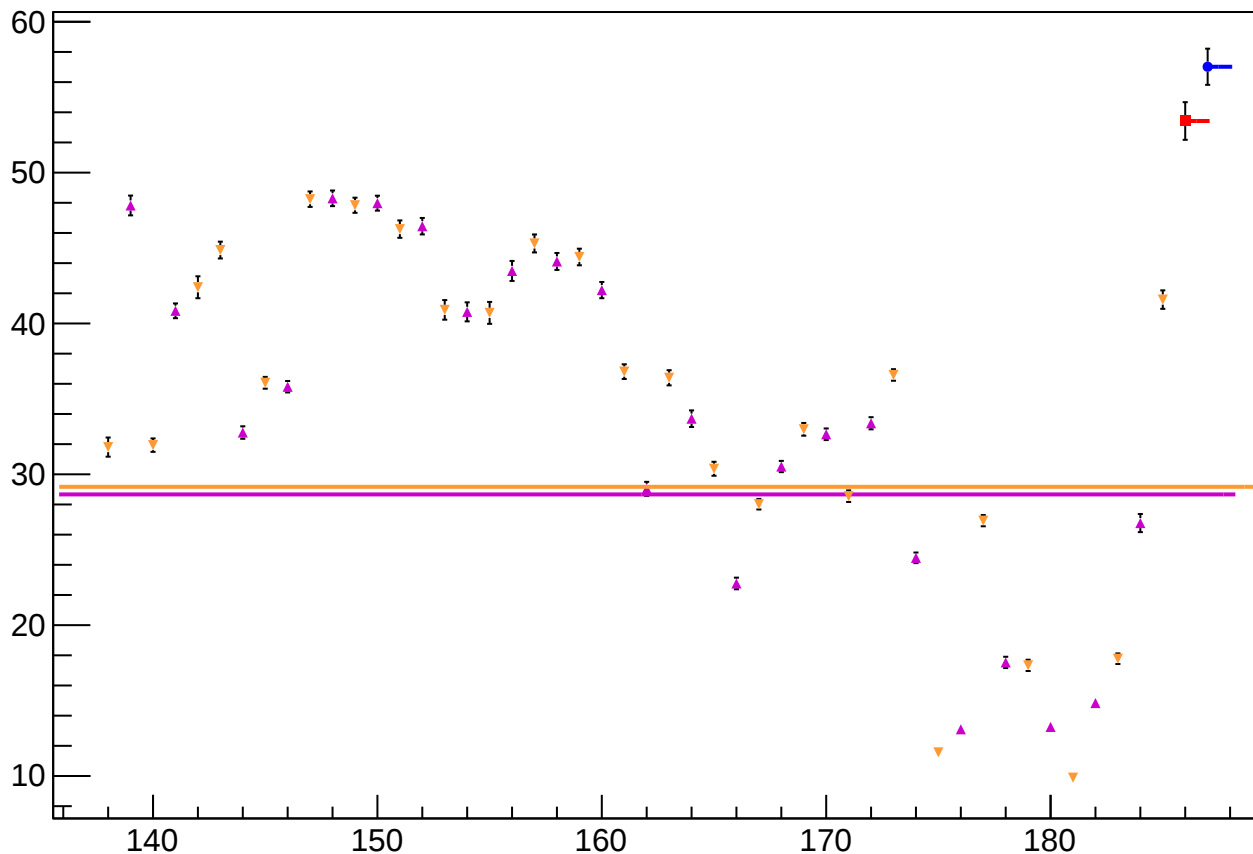
reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.556 ± 2.357 χ^2/NDF : 0.0/0
 Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24
 Right Out: 7.217 ± 1.975 χ^2/NDF : 0.0/0
 Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47
 Right: 5.707 ± 1.514 χ^2/NDF : 1.4/1
 In: 0.527 ± 0.071 χ^2/NDF : 6731.3/23
 Out: 0.669 ± 0.069 χ^2/NDF : 8564.9/25
 All: 0.599 ± 0.050 χ^2/NDF : 15298.3/49

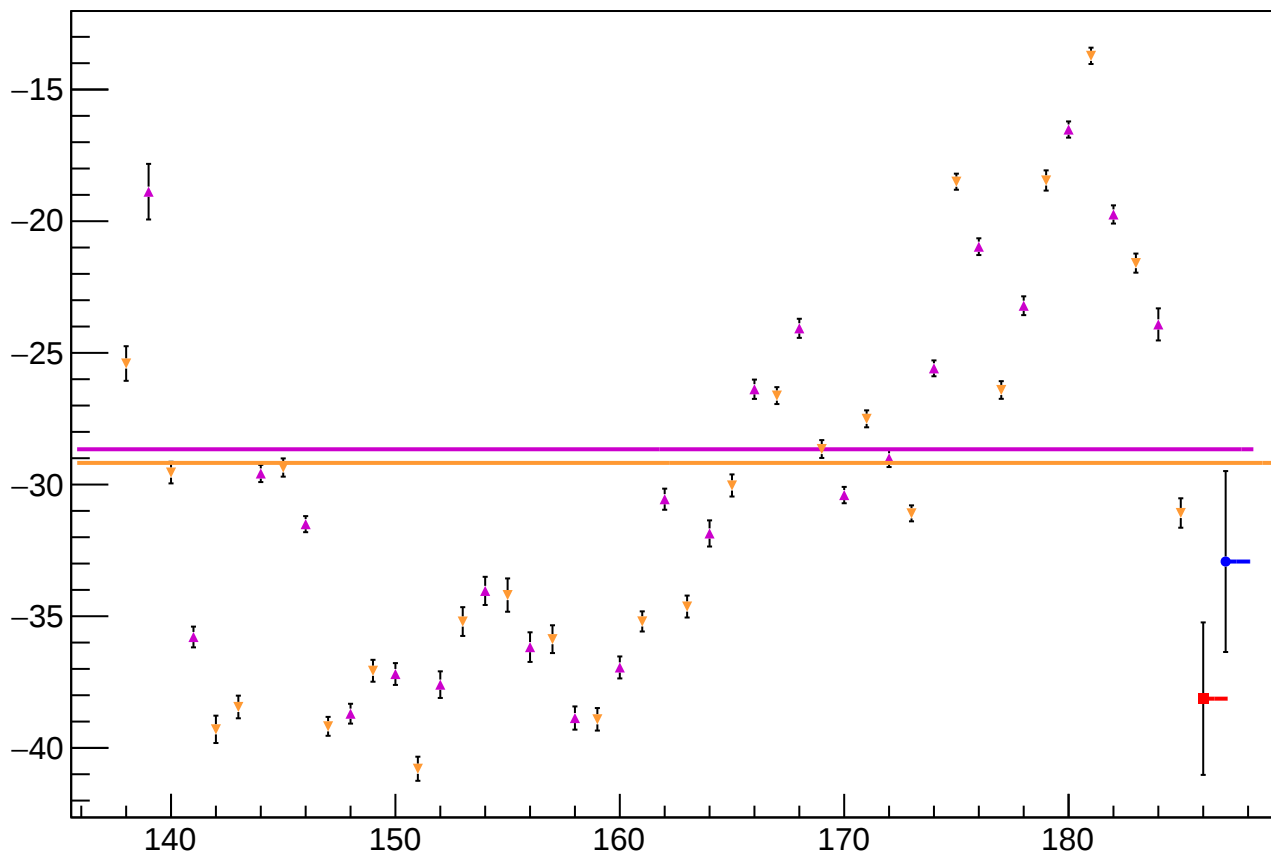
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



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: 53.423 $\pm$ 1.248 χ^2 /NDF: 0.0/0
 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: 55.293 $\pm$ 0.865 χ^2 /NDF: 4.3/1
 In: 28.823 $\pm$ 0.089 χ^2 /NDF:17403.3/23
 Out: 29.290 $\pm$ 0.088 χ^2 /NDF:19350.4/25
 All: 29.060 $\pm$ 0.062 χ^2 /NDF: 36767.7/49

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



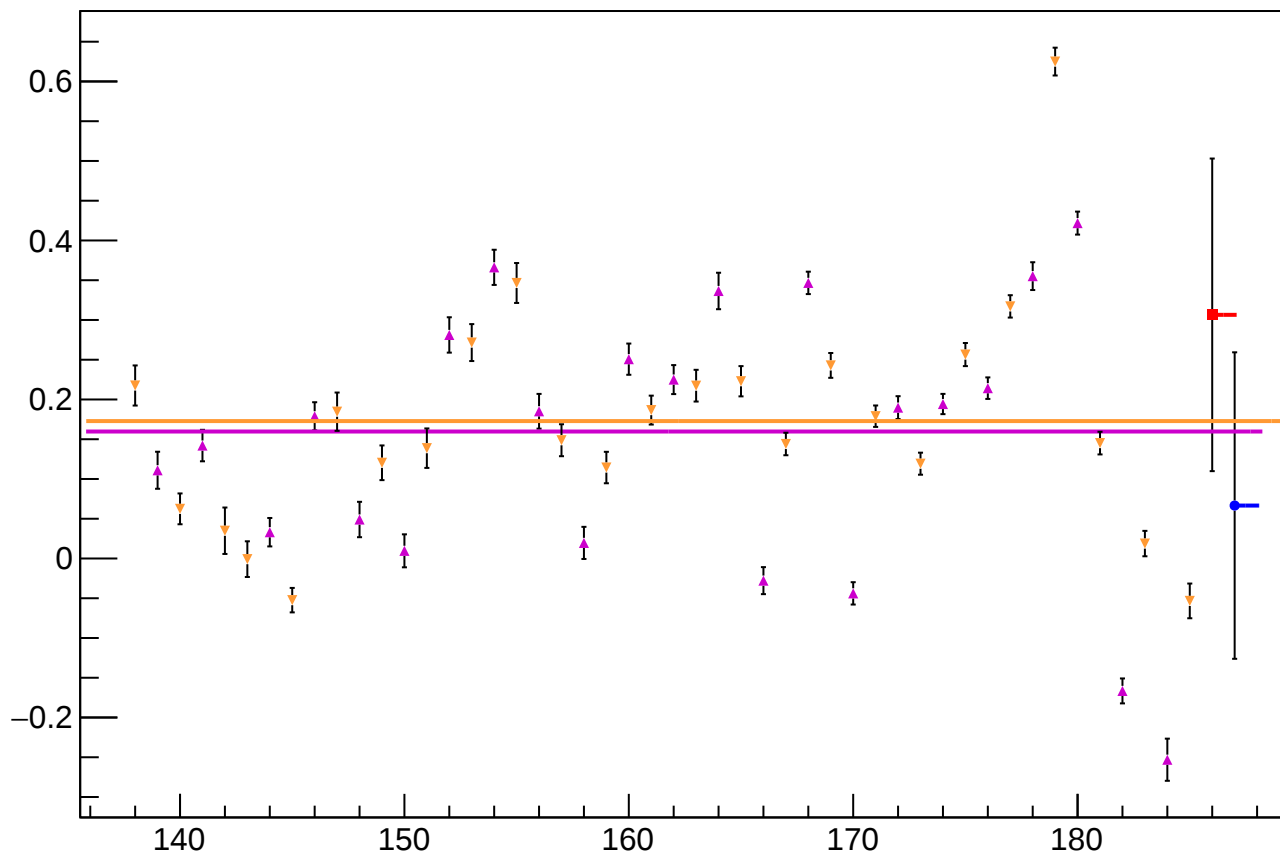
Right In: -32.923 ± 3.435 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -38.130 ± 2.895 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -35.968 ± 2.214 $\chi^2/\text{NDF}: 1.3/1$

In: -28.663 ± 0.080 $\chi^2/\text{NDF}: 6671.7/23$
 Out: -29.184 ± 0.078 $\chi^2/\text{NDF}: 9090.9/25$

All: -28.929 ± 0.056 $\chi^2/\text{NDF}: 15784.4/49$

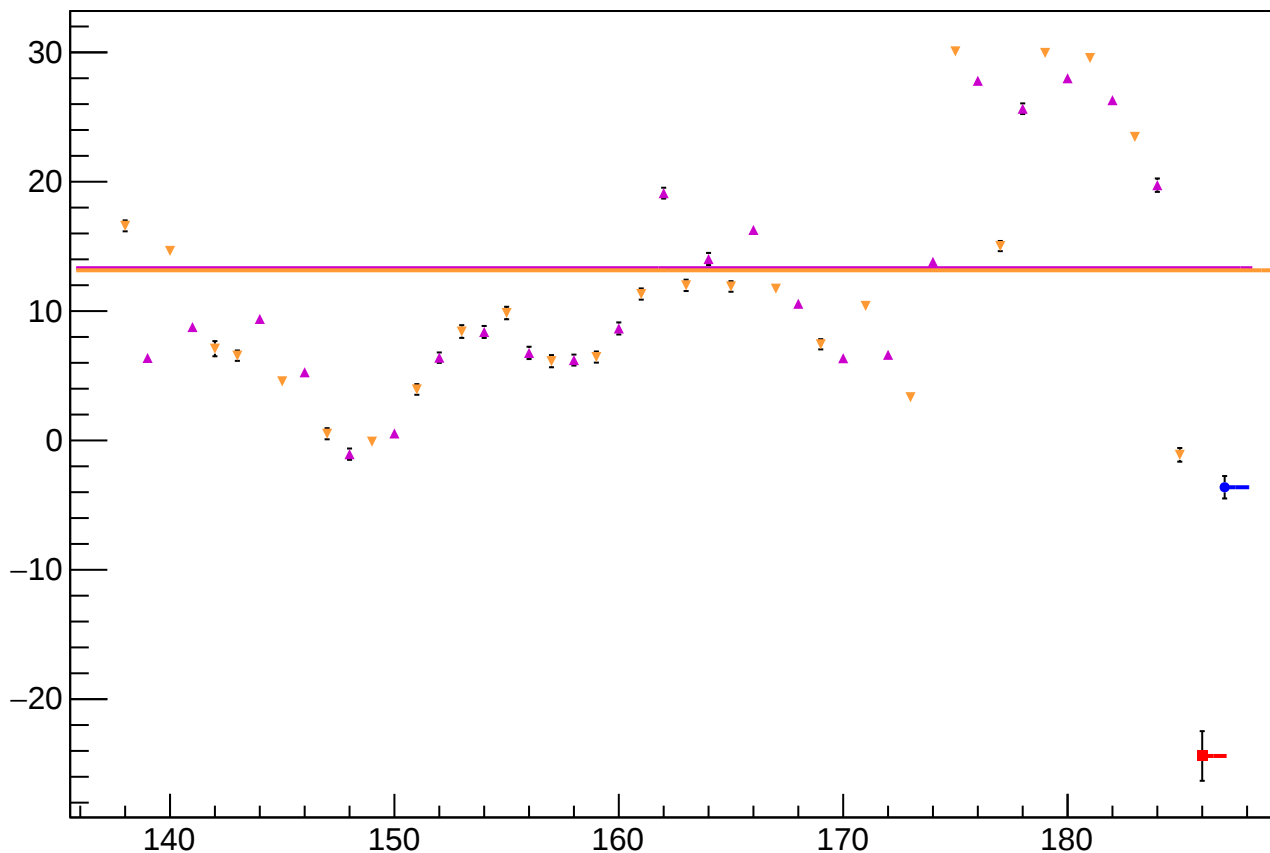
reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



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: 0.306 $\pm$ 0.197 χ^2 /NDF: 0.0/0
 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: 0.184 $\pm$ 0.138 χ^2 /NDF: 0.8/1
 In: 0.160 $\pm$ 0.004 χ^2 /NDF:2058.1/23
 Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.9/25
 All: 0.166 $\pm$ 0.003 χ^2 /NDF: 3543.7/49

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.618 ± 0.867 χ^2/NDF : 0.0/0

Left Out: 13.153 ± 0.075 χ^2/NDF : 17079.7/24

Right Out: -24.391 ± 1.919 χ^2/NDF : 0.0/0

Left In: 13.315 ± 0.077 χ^2/NDF : 13977.7/22

Left: 13.232 ± 0.054 χ^2/NDF : 31059.6/47

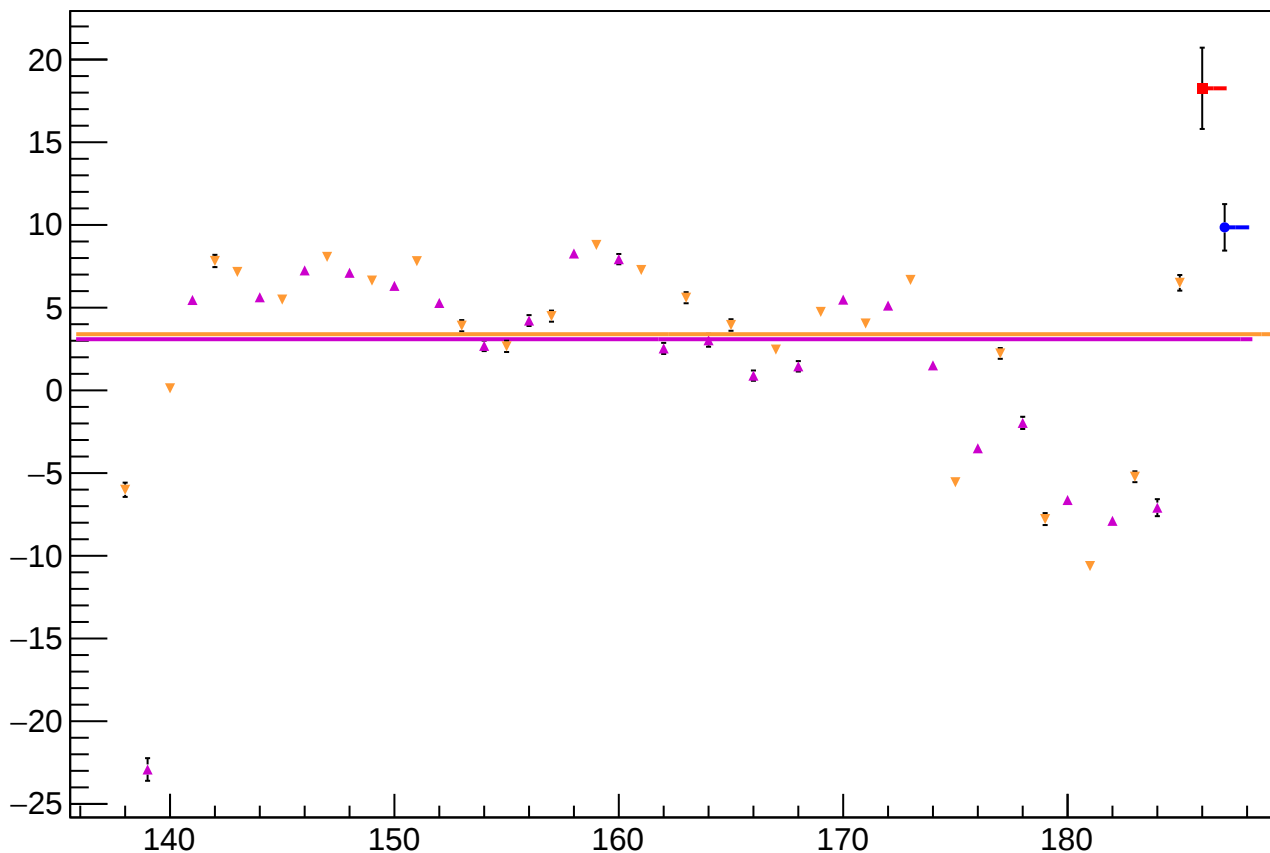
Right: -7.141 ± 0.790 χ^2/NDF : 97.3/1

In: 13.182 ± 0.077 χ^2/NDF : 14355.9/23

Out: 13.096 ± 0.075 χ^2/NDF : 17461.8/25

All: 13.138 ± 0.054 χ^2/NDF : 31818.4/49

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: 18.260+/-2.457 χ^2/NDF : 0.0/0

Left In: 3.092+/-0.061 χ^2/NDF :7104.4/22

Left: 3.250+/-0.042 χ^2/NDF : 15218.9/47

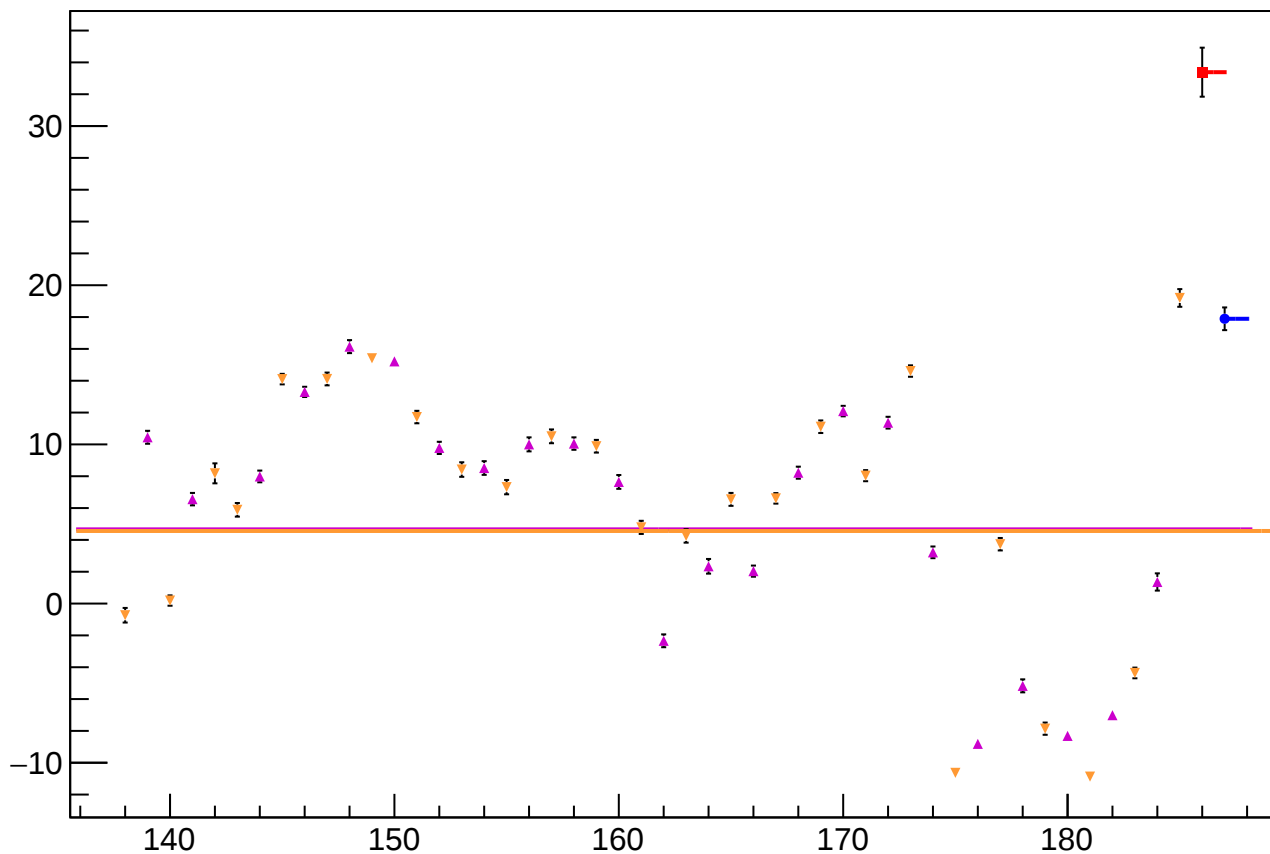
Right: 11.927+/-1.220 χ^2/NDF : 8.8/1

In: 3.105+/-0.061 χ^2/NDF :7127.5/23

Out: 3.404+/-0.058 χ^2/NDF :8138.1/25

All: 3.260+/-0.042 χ^2/NDF : 15278.3/49

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 17.892+/-0.713 χ^2/NDF : 0.0/0

Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24

Right Out: 33.385+/-1.540 χ^2/NDF : 0.0/0

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

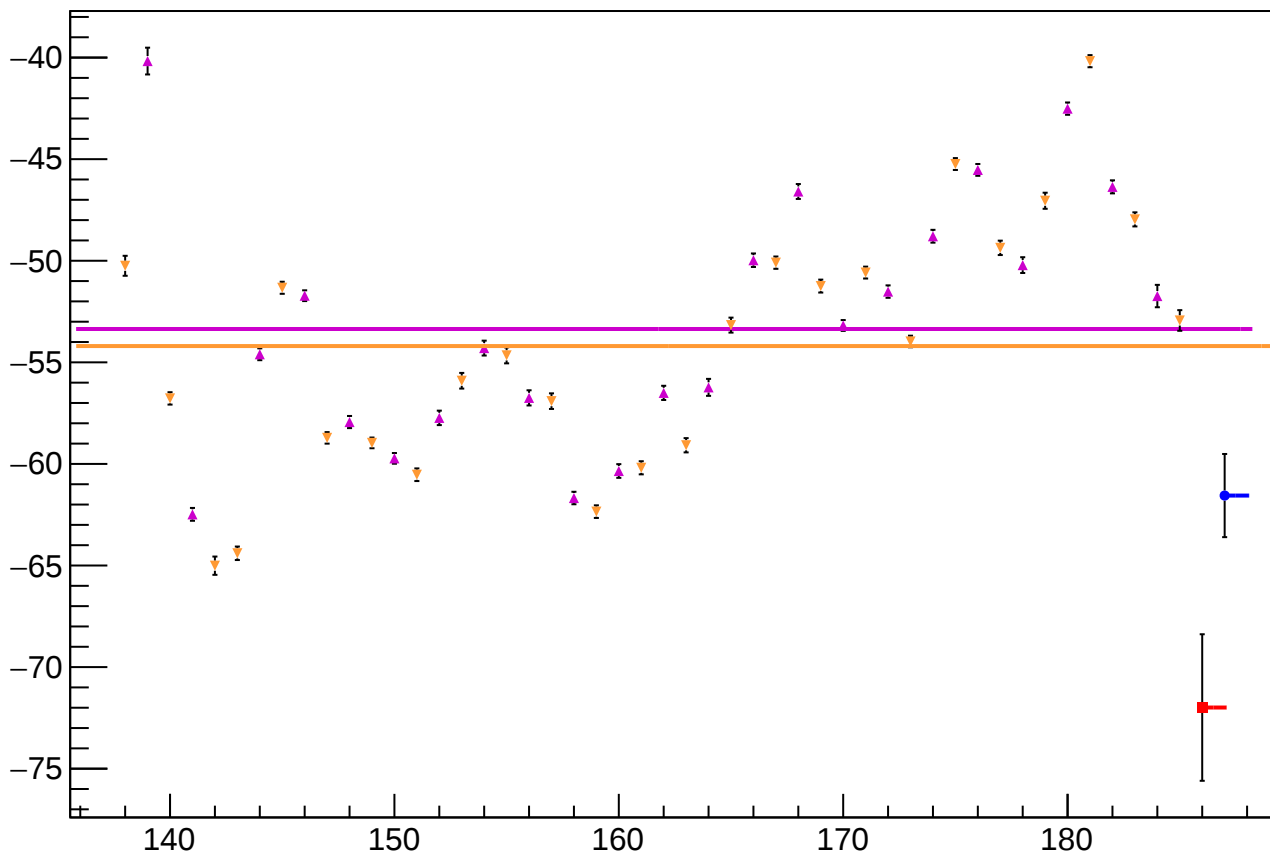
Right: 20.629+/-0.647 χ^2/NDF : 83.3/1

In: 4.814+/-0.076 χ^2/NDF :11621.5/23

Out: 4.629+/-0.075 χ^2/NDF :13941.6/25

All: 4.720+/-0.054 χ^2/NDF : 25566.0/49

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



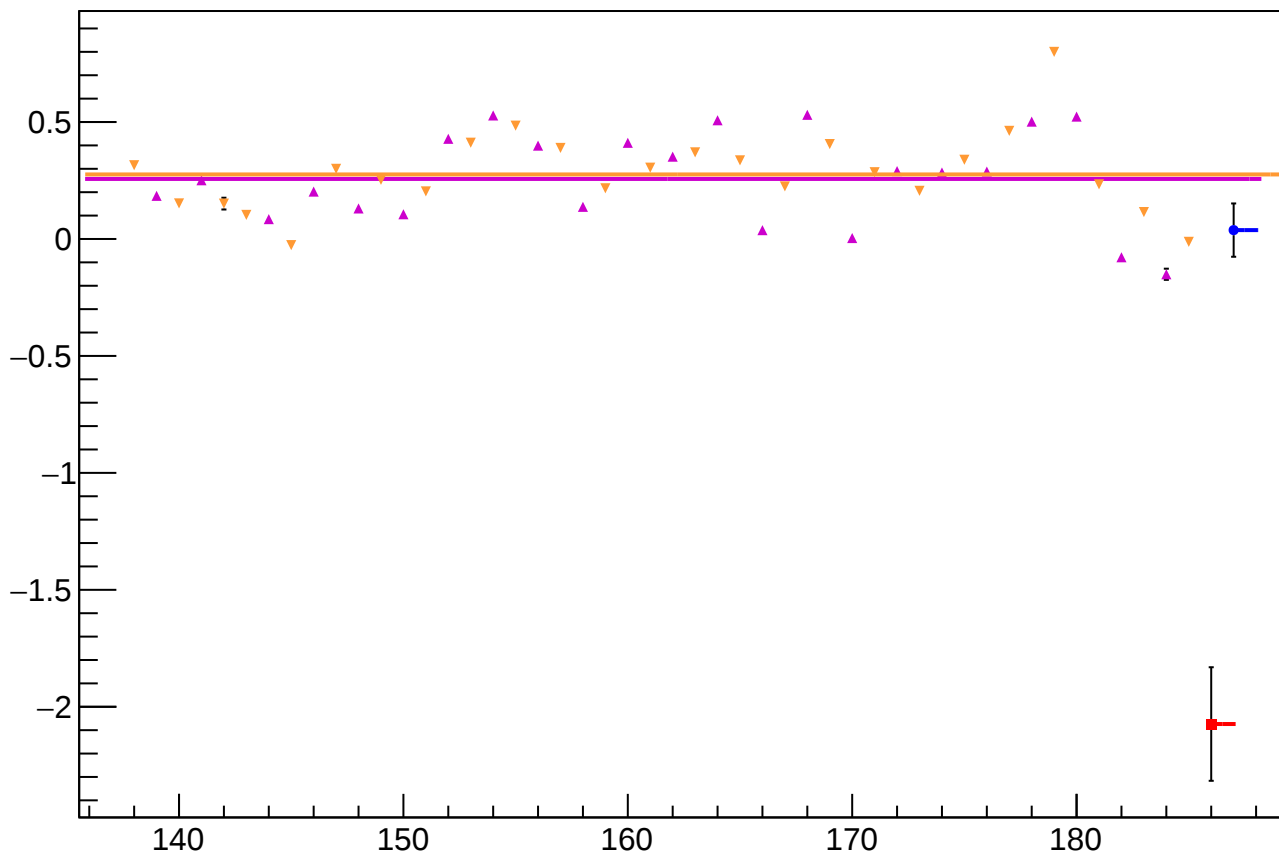
Right In: -61.557 ± 2.047 χ^2/NDF : 0.0/0
 Left Out: -54.199 ± 0.066 χ^2/NDF : 8454.7/24
 Right Out: -71.990 ± 3.606 χ^2/NDF : 0.0/0
 Left In: -53.359 ± 0.068 χ^2/NDF : 6882.0/22

Left: -53.792 ± 0.048 χ^2/NDF : 15414.3/47
 Right: -64.099 ± 1.780 χ^2/NDF : 6.3/1

In: -53.368 ± 0.068 χ^2/NDF : 6898.1/23
 Out: -54.205 ± 0.066 χ^2/NDF : 8479.1/25

All: -53.799 ± 0.048 χ^2/NDF : 15454.2/49

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: -2.074 $\pm$ 0.243 χ^2 /NDF: 0.0/0

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

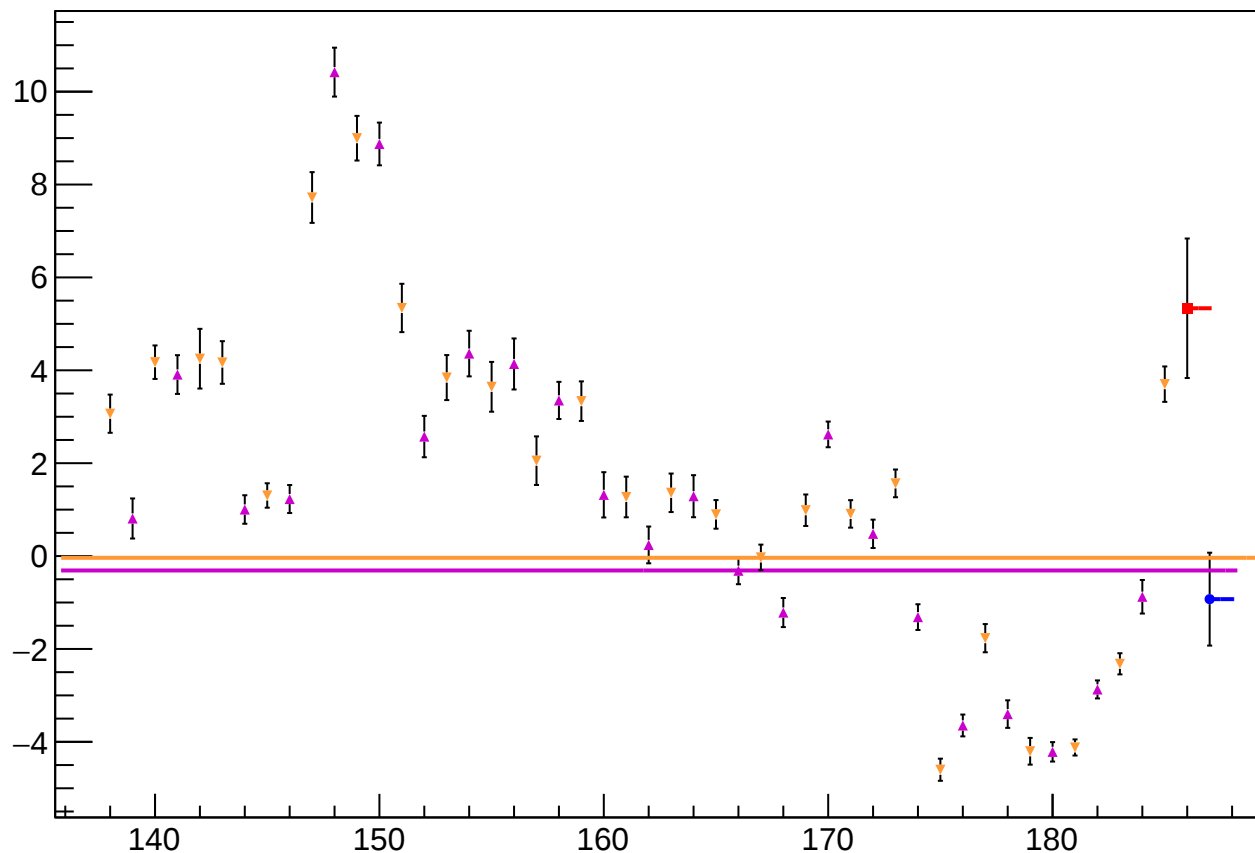
Right: -0.343 $\pm$ 0.103 χ^2 /NDF: 62.0/1

In: 0.256 $\pm$ 0.003 χ^2 /NDF:3627.5/23

Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2717.2/25

All: 0.266 $\pm$ 0.002 χ^2 /NDF: 6363.9/49

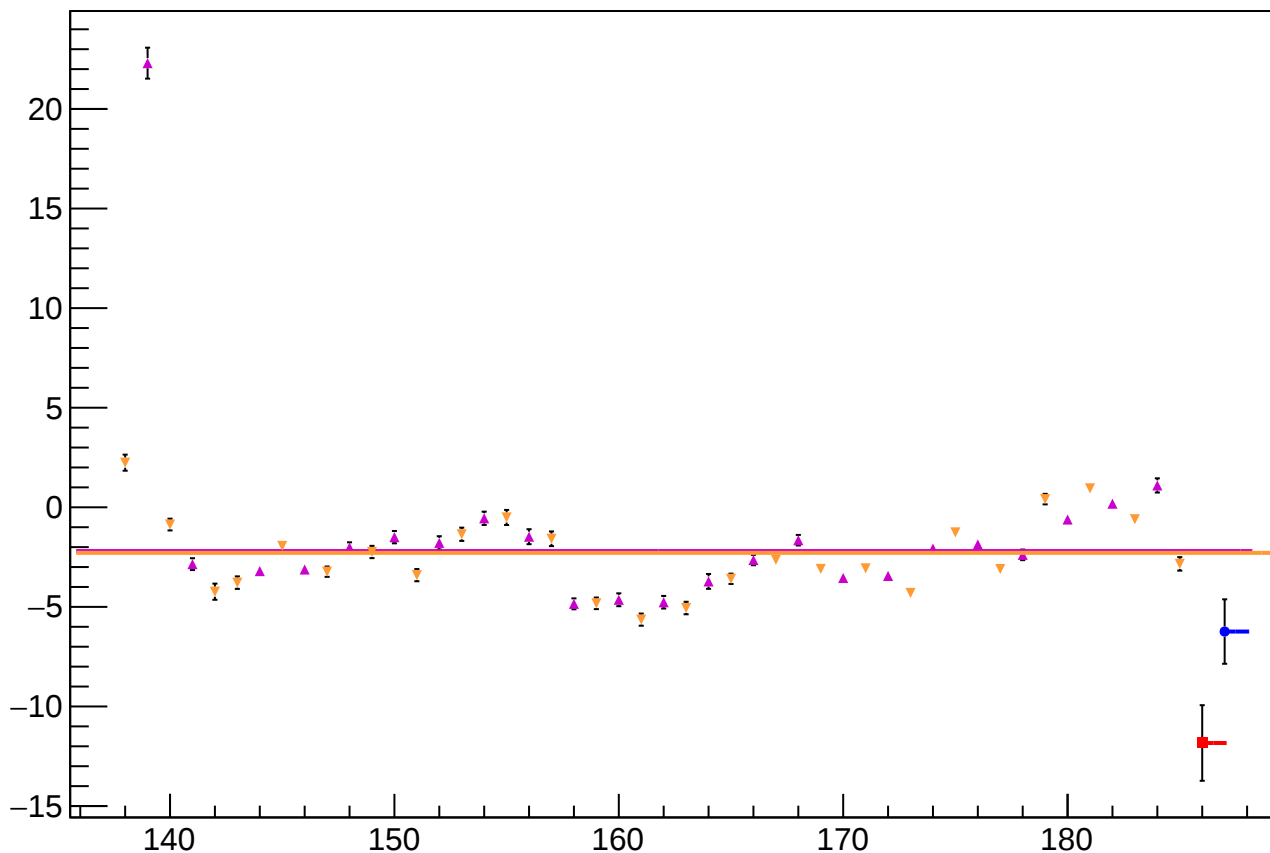
reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



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: 5.336 ± 1.502 χ^2/NDF : 0.0/0
 Left In: -0.310 ± 0.067 χ^2/NDF : 2250.5/22

Left: -0.171 ± 0.047 χ^2/NDF : 4896.5/47
 Right: 0.996 ± 0.832 χ^2/NDF : 12.0/1
 In: -0.313 ± 0.067 χ^2/NDF : 2250.8/23
 Out: -0.027 ± 0.066 χ^2/NDF : 2650.4/25
 All: -0.167 ± 0.047 χ^2/NDF : 4910.5/49

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.238 $\pm$ 1.618 χ^2 /NDF: 0.0/0

Left Out: -2.288 $\pm$ 0.054 χ^2 /NDF:1137.7/24

Right Out: -11.834 $\pm$ 1.898 χ^2 /NDF: 0.0/0

Left In: -2.198 $\pm$ 0.055 χ^2 /NDF:1673.9/22

Left: -2.244 $\pm$ 0.039 χ^2 /NDF: 2813.0/47

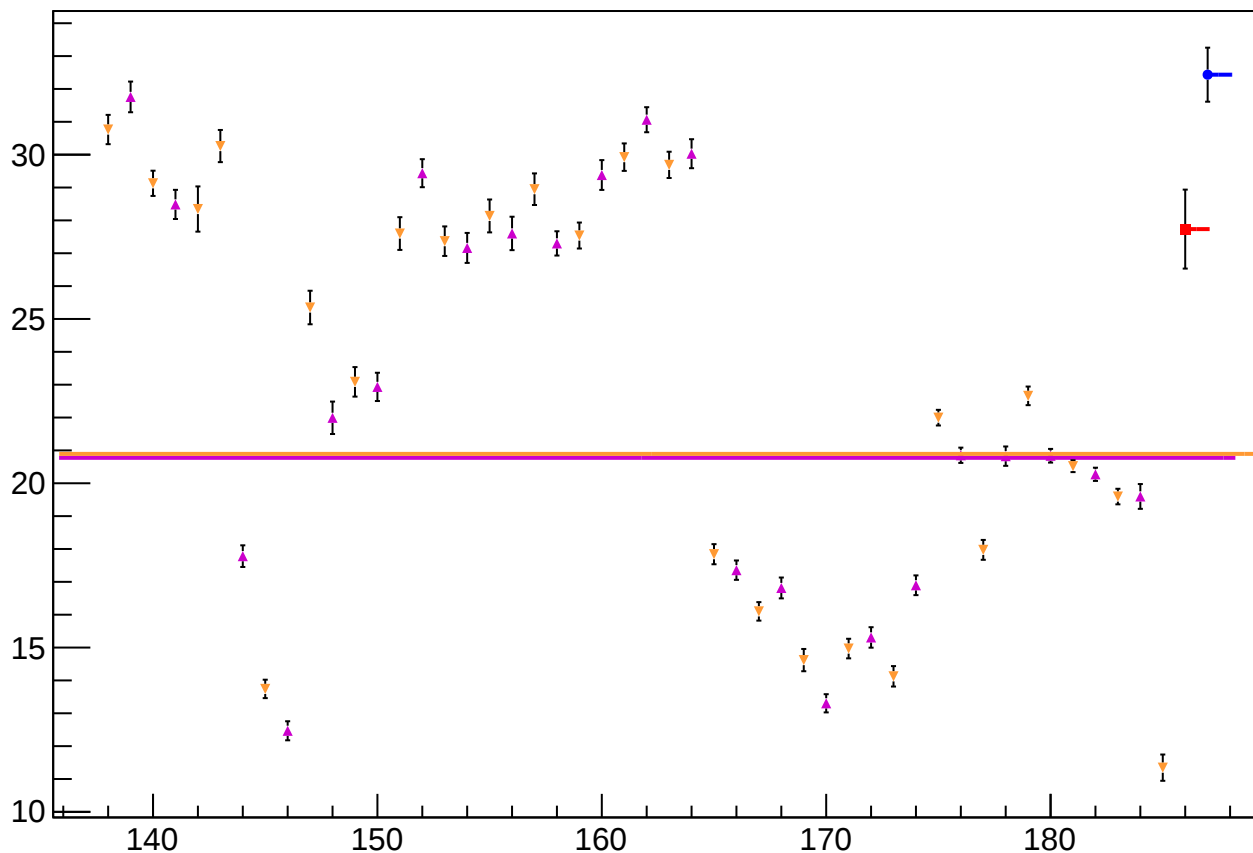
Right: -8.593 $\pm$ 1.231 χ^2 /NDF: 5.0/1

In: -2.202 $\pm$ 0.055 χ^2 /NDF:1680.1/23

Out: -2.296 $\pm$ 0.054 χ^2 /NDF:1163.0/25

All: -2.250 $\pm$ 0.039 χ^2 /NDF: 2844.6/49

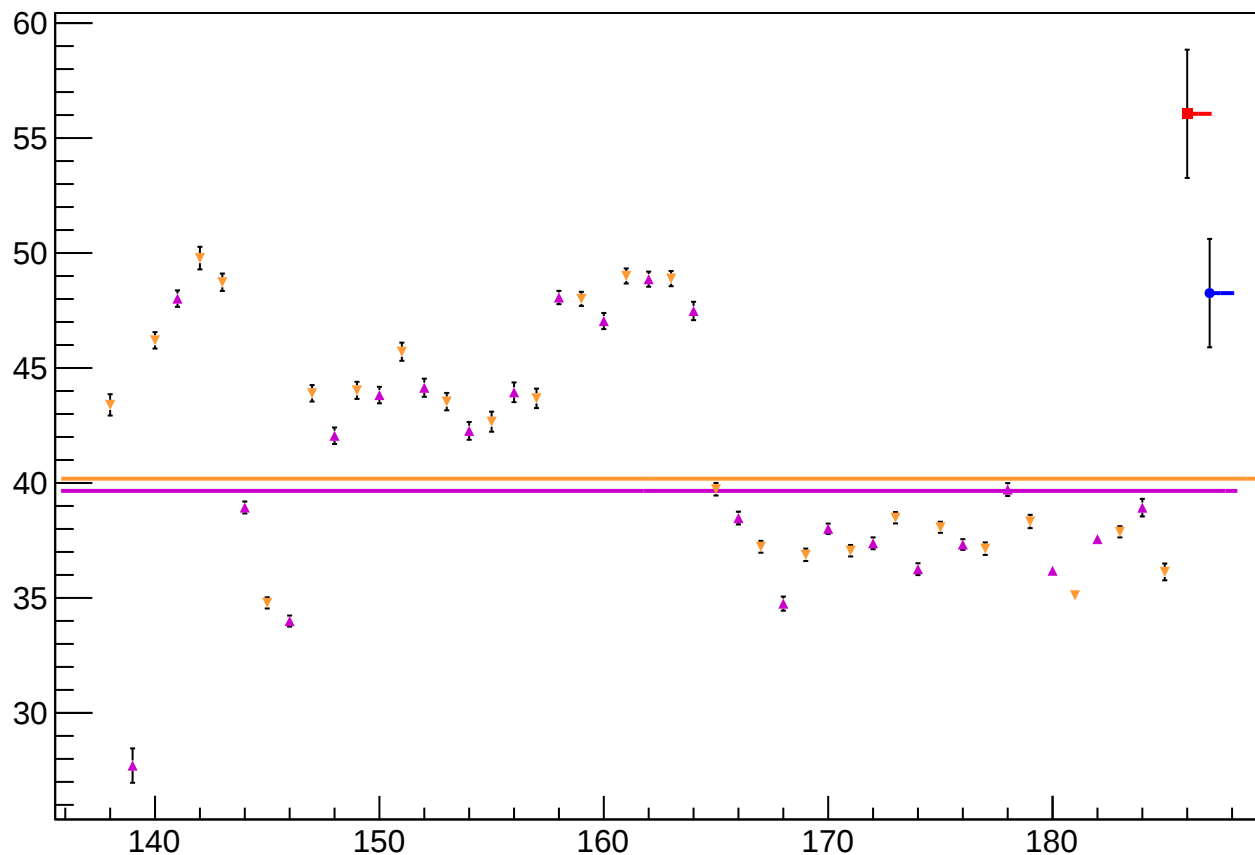
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.434 $\pm$ 0.822 χ^2 /NDF: 0.0/0
 Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24
 Right Out: 27.735 $\pm$ 1.202 χ^2 /NDF: 0.0/0
 Left In: 20.774 $\pm$ 0.068 χ^2 /NDF:5927.9/22

Left: 20.835 $\pm$ 0.047 χ^2 /NDF: 12584.8/47
 Right: 30.936 $\pm$ 0.678 χ^2 /NDF: 10.4/1
 In: 20.853 $\pm$ 0.067 χ^2 /NDF:6127.7/23
 Out: 20.915 $\pm$ 0.067 χ^2 /NDF:6687.7/25
 All: 20.884 $\pm$ 0.047 χ^2 /NDF: 12815.8/49

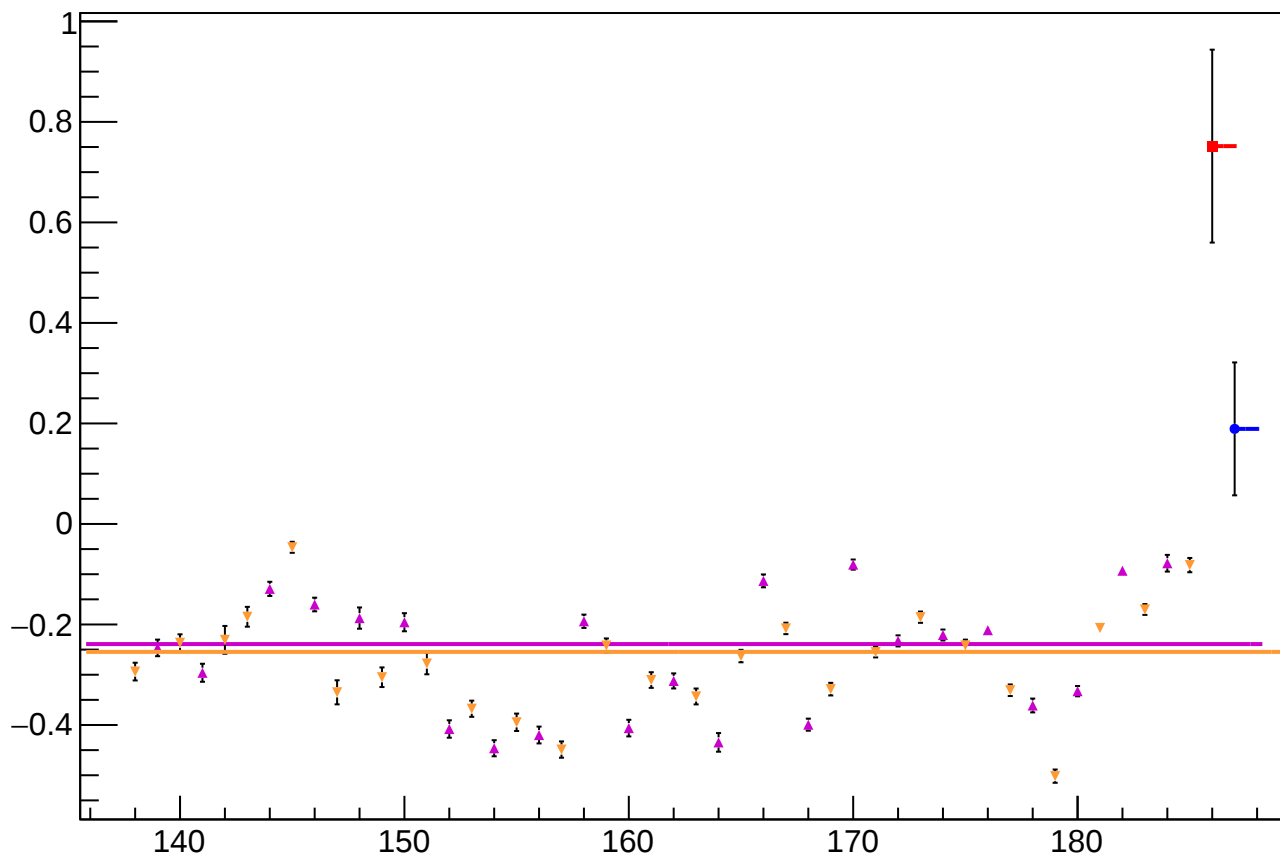
reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



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: 56.055 $\pm$ 2.789 χ^2 /NDF: 0.0/0
 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: 51.507 $\pm$ 1.801 χ^2 /NDF: 4.6/1
 In: 39.661 $\pm$ 0.061 χ^2 /NDF:5311.9/23
 Out: 40.194 $\pm$ 0.060 χ^2 /NDF:5965.0/25
 All: 39.932 $\pm$ 0.043 χ^2 /NDF: 11315.1/49

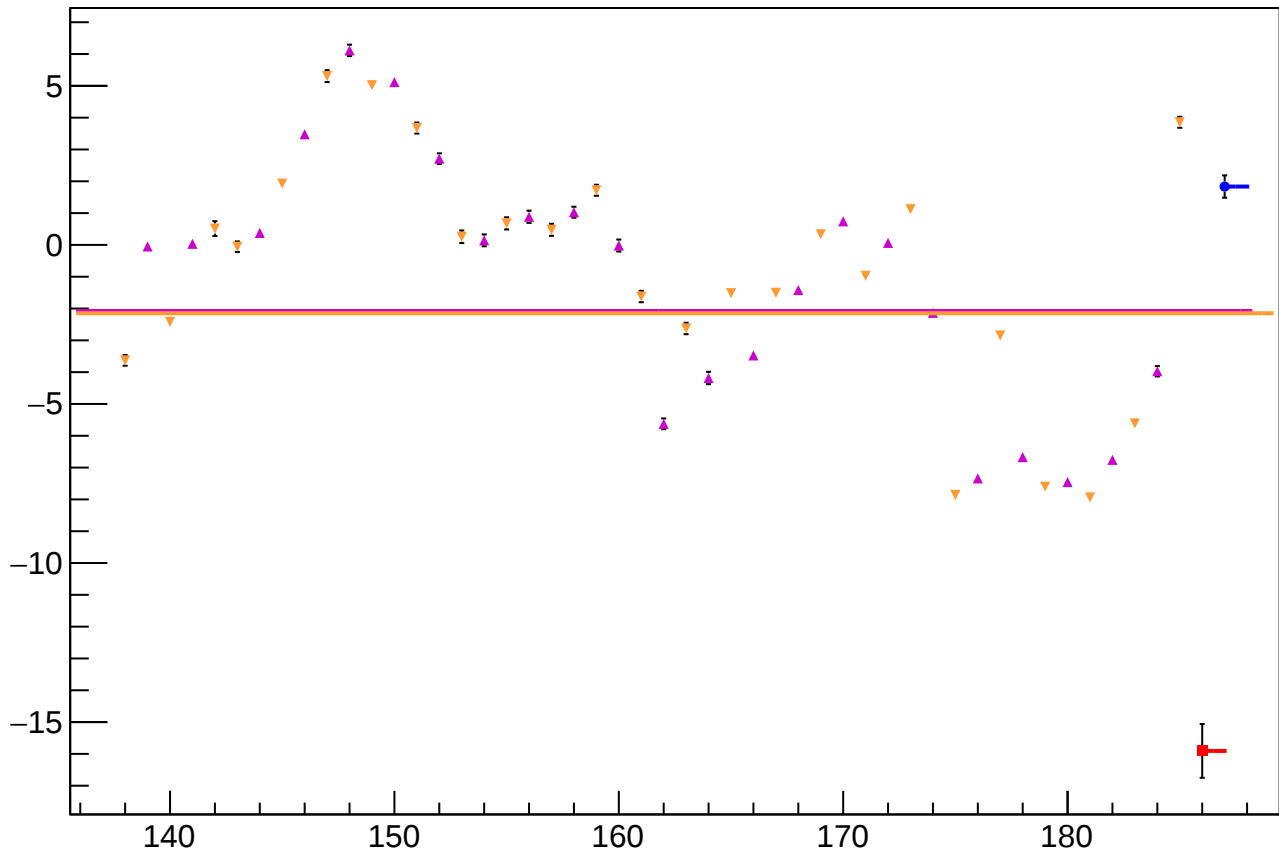
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



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: 0.752 ± 0.192 $\chi^2/\text{NDF}: 0.0/0$
 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: 0.370 ± 0.109 $\chi^2/\text{NDF}: 5.8/1$
 In: -0.239 ± 0.003 $\chi^2/\text{NDF}: 1761.0/23$
 Out: -0.254 ± 0.003 $\chi^2/\text{NDF}: 1447.9/25$
 All: -0.247 ± 0.002 $\chi^2/\text{NDF}: 3224.7/49$

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.834+/-0.352 χ^2/NDF : 0.0/0

Left Out: -2.149+/-0.026 χ^2/NDF : 24536.3/24

Right Out: -15.906+/-0.845 χ^2/NDF : 0.0/0

Left In: -2.078+/-0.026 χ^2/NDF : 23245.8/22

Left: -2.114+/-0.018 χ^2/NDF : 47785.8/47

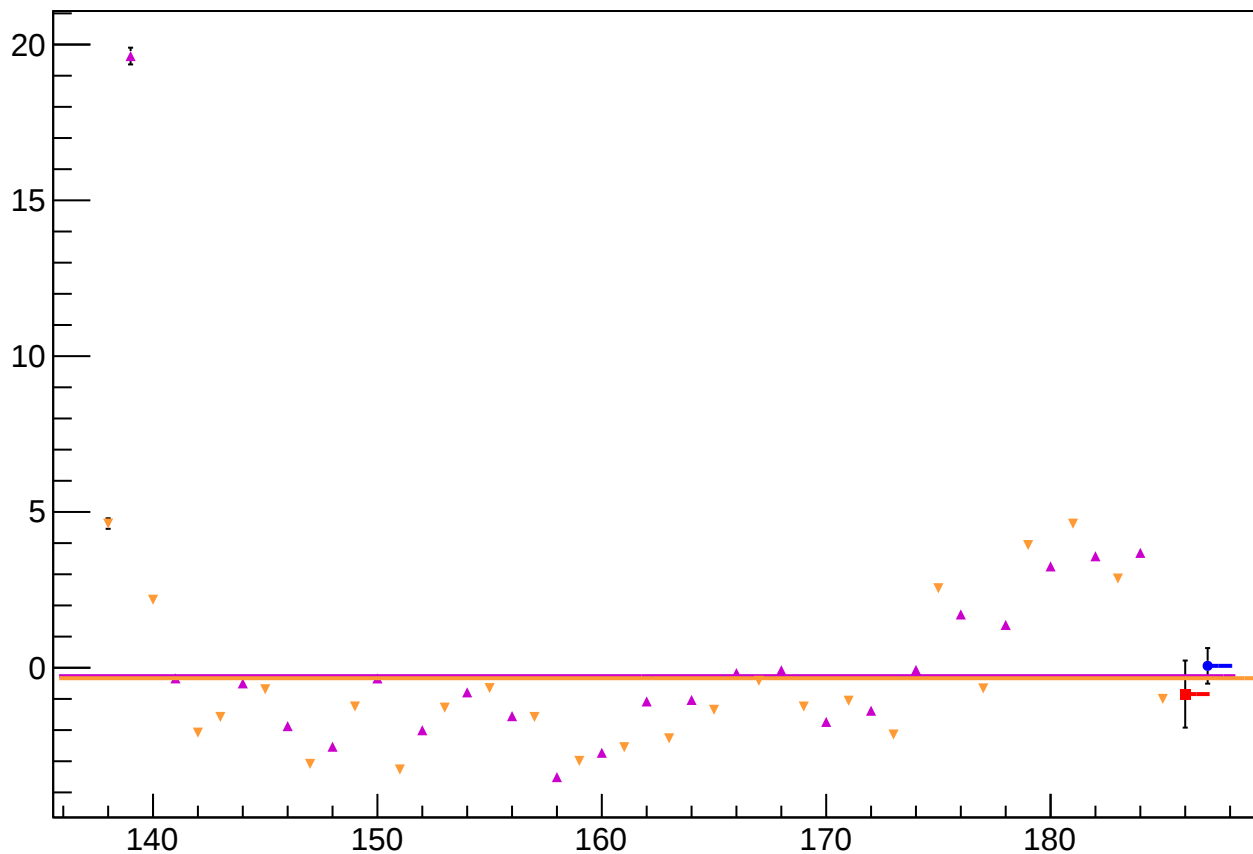
Right: -0.782+/-0.325 χ^2/NDF : 375.4/1

In: -2.057+/-0.026 χ^2/NDF : 23368.9/23

Out: -2.161+/-0.026 χ^2/NDF : 24800.9/25

All: -2.110+/-0.018 χ^2/NDF : 48178.0/49

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: -0.845+/-1.076 χ^2/NDF : 0.0/0

Left In: -0.269+/-0.021 χ^2/NDF :13323.1/22

Left: -0.303+/-0.015 χ^2/NDF : 25924.2/47

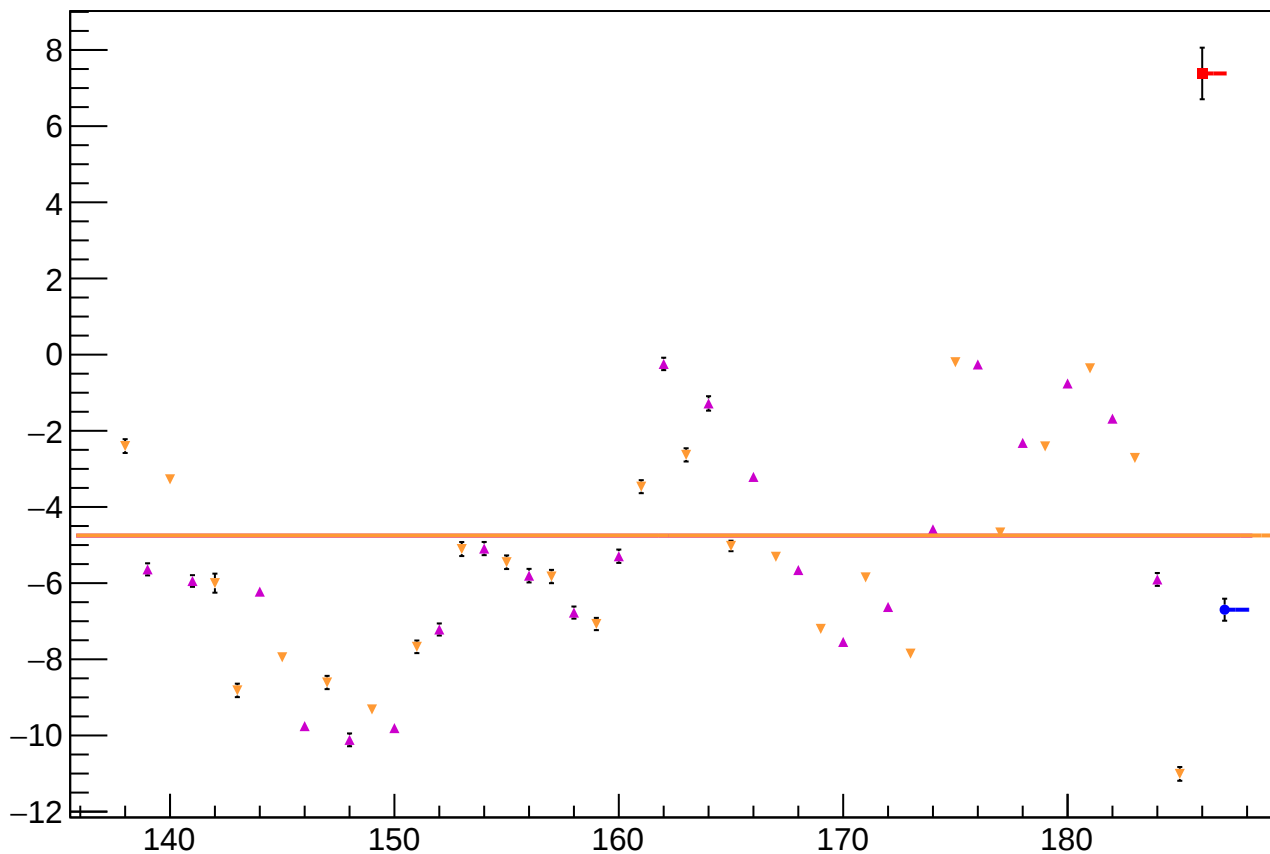
Right: -0.138+/-0.504 χ^2/NDF : 0.6/1

In: -0.269+/-0.021 χ^2/NDF :13323.4/23

Out: -0.335+/-0.021 χ^2/NDF :12596.3/25

All: -0.303+/-0.015 χ^2/NDF : 25924.8/49

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



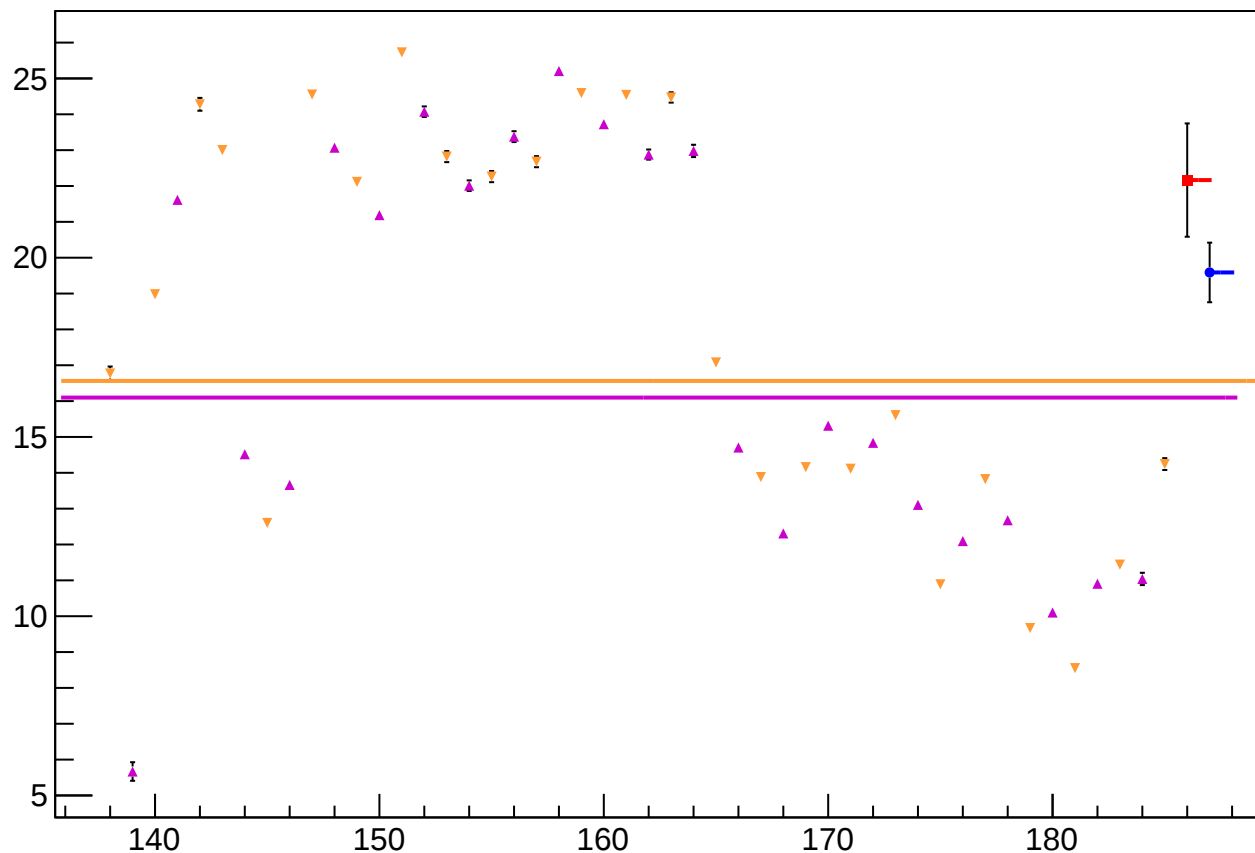
Right In: -6.698+/-0.289 χ^2/NDF : 0.0/0
 Left Out: -4.748+/-0.026 χ^2/NDF :13289.8/24
 Right Out: 7.383+/-0.677 χ^2/NDF : 0.0/0
 Left In: -4.753+/-0.026 χ^2/NDF :14119.2/22

Left: -4.751+/-0.018 χ^2/NDF : 27409.0/47
 Right: -4.526+/-0.266 χ^2/NDF : 365.6/1

In: -4.769+/-0.026 χ^2/NDF :14164.0/23
 Out: -4.730+/-0.026 χ^2/NDF :13610.1/25

All: -4.749+/-0.018 χ^2/NDF : 27775.3/49

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: 22.165 $\pm$ 1.581 χ^2 /NDF: 0.0/0

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

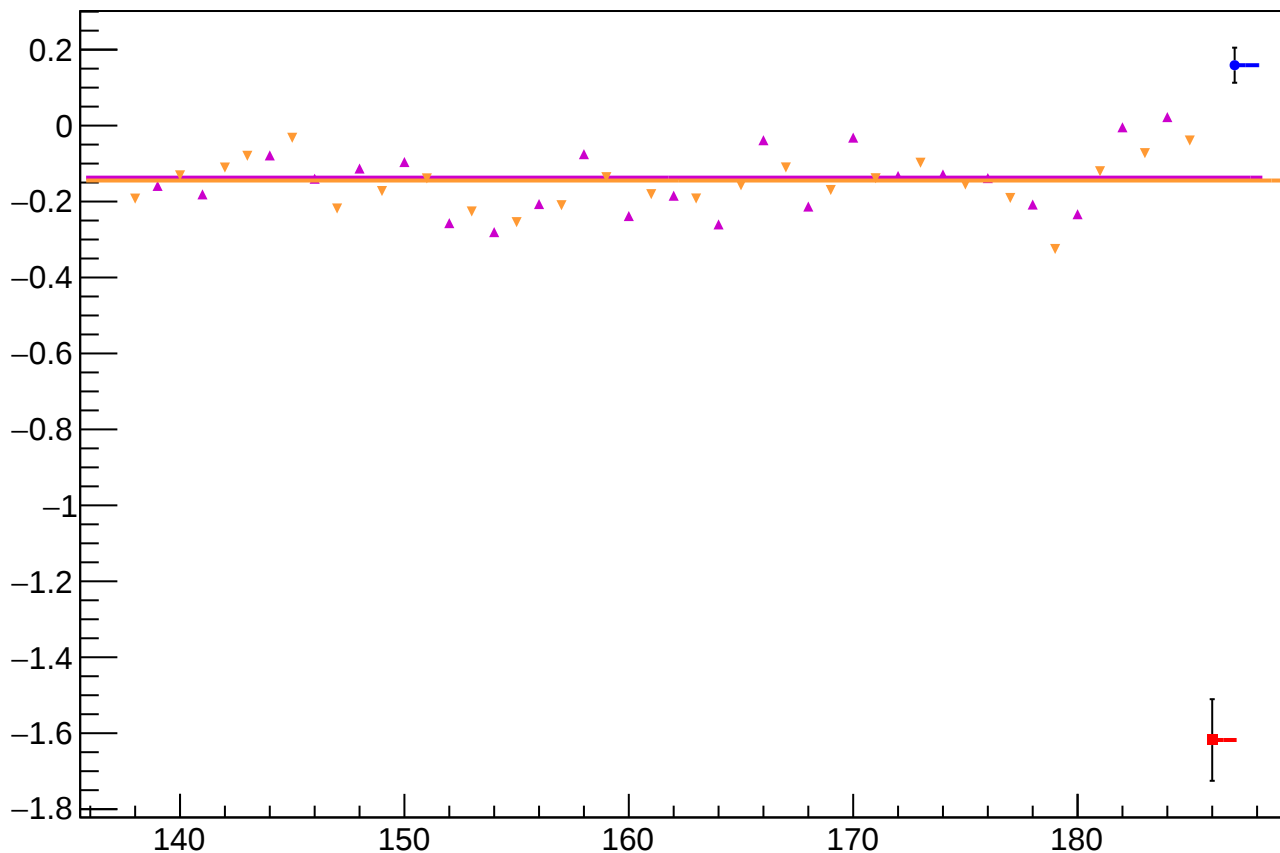
Right: 20.147 $\pm$ 0.736 χ^2 /NDF: 2.1/1

In: 16.101 $\pm$ 0.024 χ^2 /NDF:42363.3/23

Out: 16.564 $\pm$ 0.023 χ^2 /NDF:53871.1/25

All: 16.337 $\pm$ 0.017 χ^2 /NDF: 96430.8/49

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.159+/-0.046 χ^2/NDF : 0.0/0

Left Out: -0.145+/-0.001 χ^2/NDF : 3769.7/24

Right Out: -1.618+/-0.107 χ^2/NDF : 0.0/0

Left In: -0.137+/-0.001 χ^2/NDF : 5392.6/22

Left: -0.141+/-0.001 χ^2/NDF : 9187.6/47

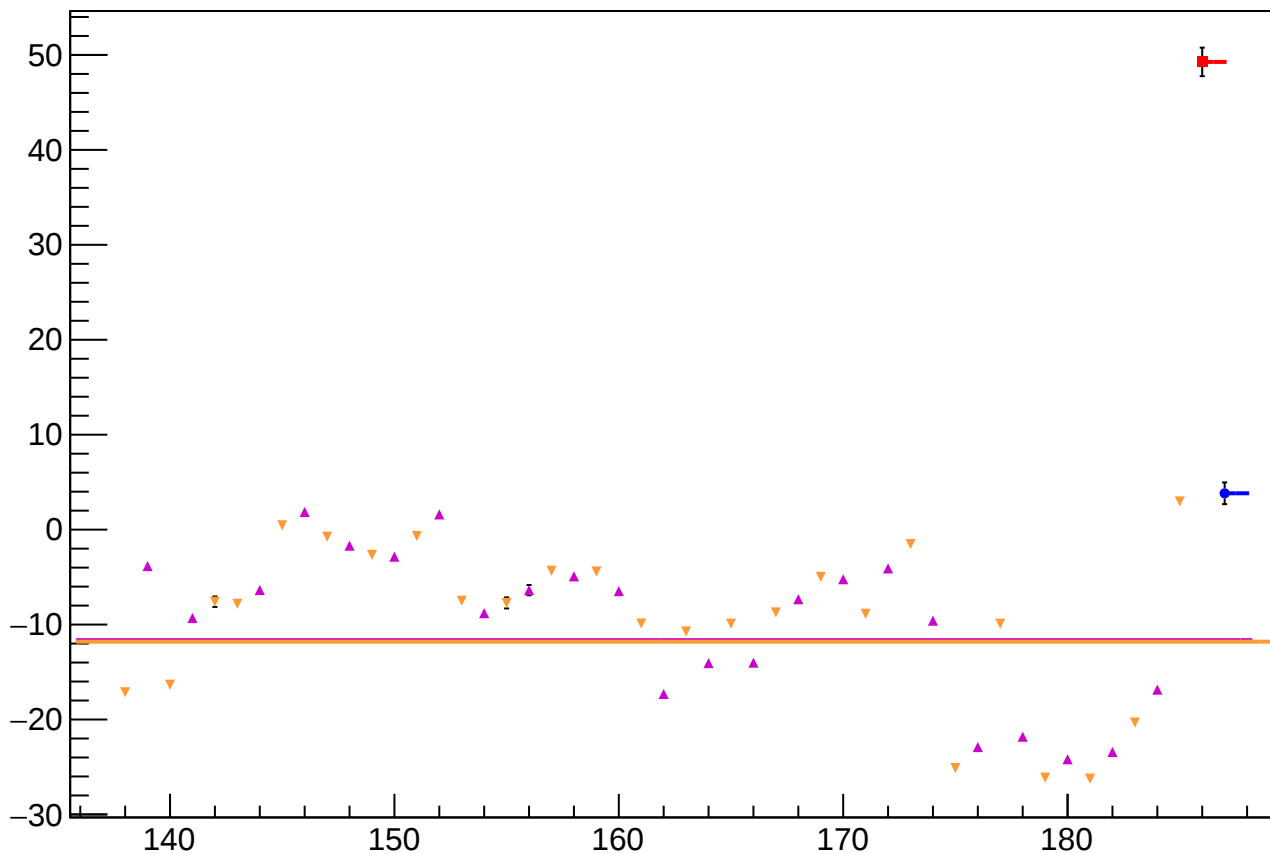
Right: -0.118+/-0.042 χ^2/NDF : 230.9/1

In: -0.137+/-0.001 χ^2/NDF : 5433.7/23

Out: -0.145+/-0.001 χ^2/NDF : 3957.6/25

All: -0.141+/-0.001 χ^2/NDF : 9418.7/49

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



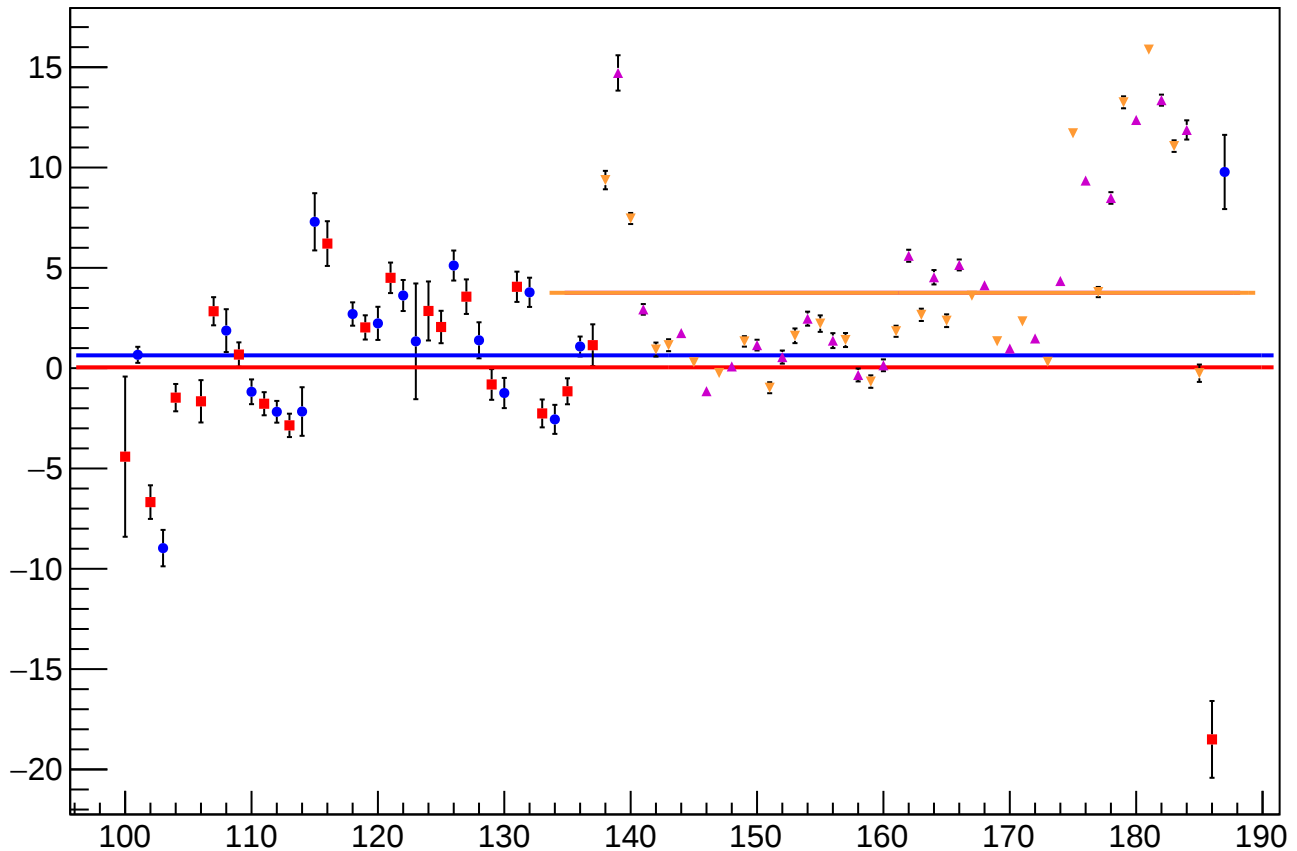
Right In: 3.828 ± 1.143 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: 49.267 ± 1.500 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$
 Right: 20.520 ± 0.909 $\chi^2/\text{NDF}: 580.7/1$

In: -11.581 ± 0.071 $\chi^2/\text{NDF}: 14303.8/23$
 Out: -11.667 ± 0.070 $\chi^2/\text{NDF}: 18962.6/25$

All: -11.625 ± 0.050 $\chi^2/\text{NDF}: 33267.1/49$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.638 ± 0.170 $\chi^2/\text{NDF}: 313.3/17$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 0.041 ± 0.174 $\chi^2/\text{NDF}: 365.8/19$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

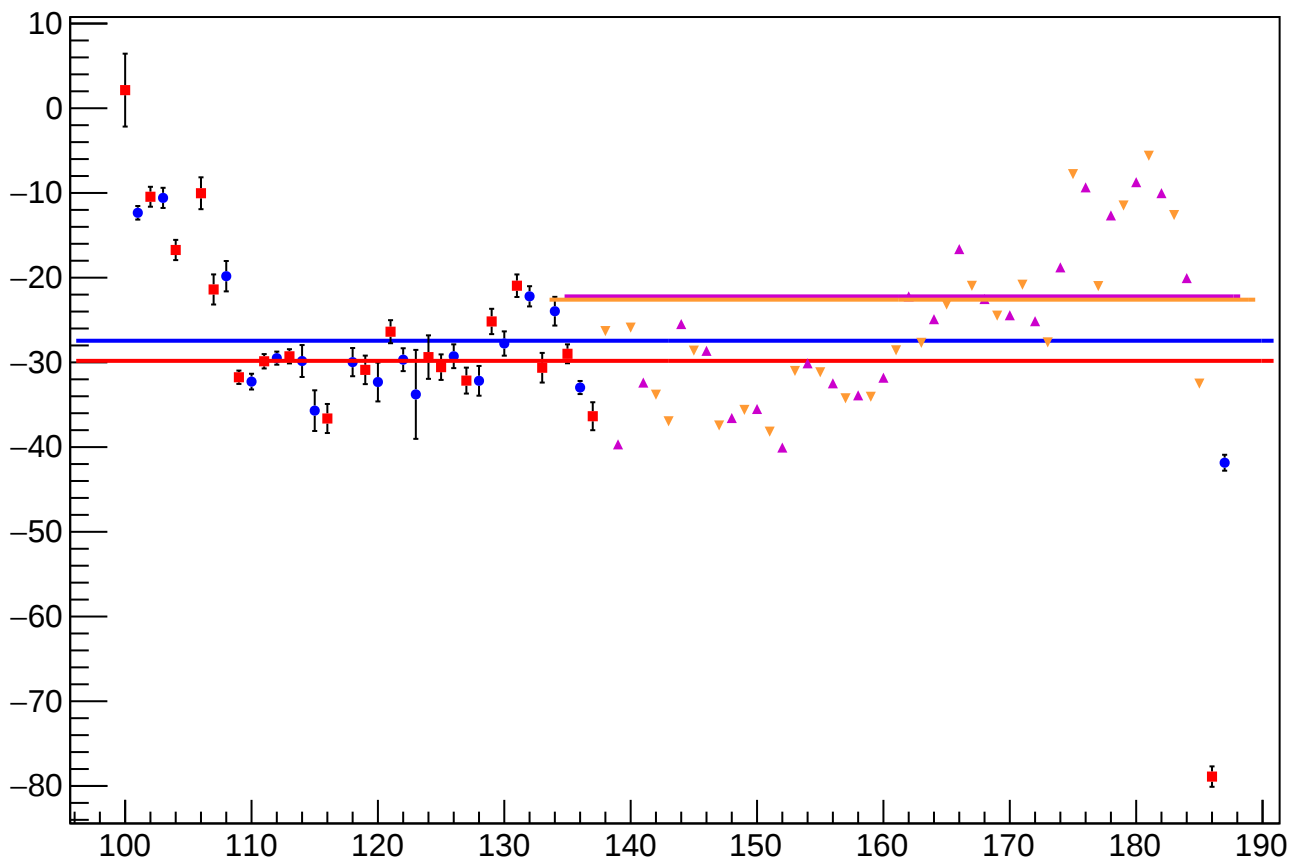
Right: 0.348 ± 0.122 $\chi^2/\text{NDF}: 685.2/37$

In: 3.445 ± 0.054 $\chi^2/\text{NDF}: 6246.5/40$

Out: 3.414 ± 0.053 $\chi^2/\text{NDF}: 8229.7/44$

All: 3.429 ± 0.038 $\chi^2/\text{NDF}: 14476.4/85$

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: -29.819 ± 0.289 $\chi^2/\text{NDF}: 2340.2/19$
 Left In: -22.209 ± 0.072 $\chi^2/\text{NDF}: 17627.4/22$

Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

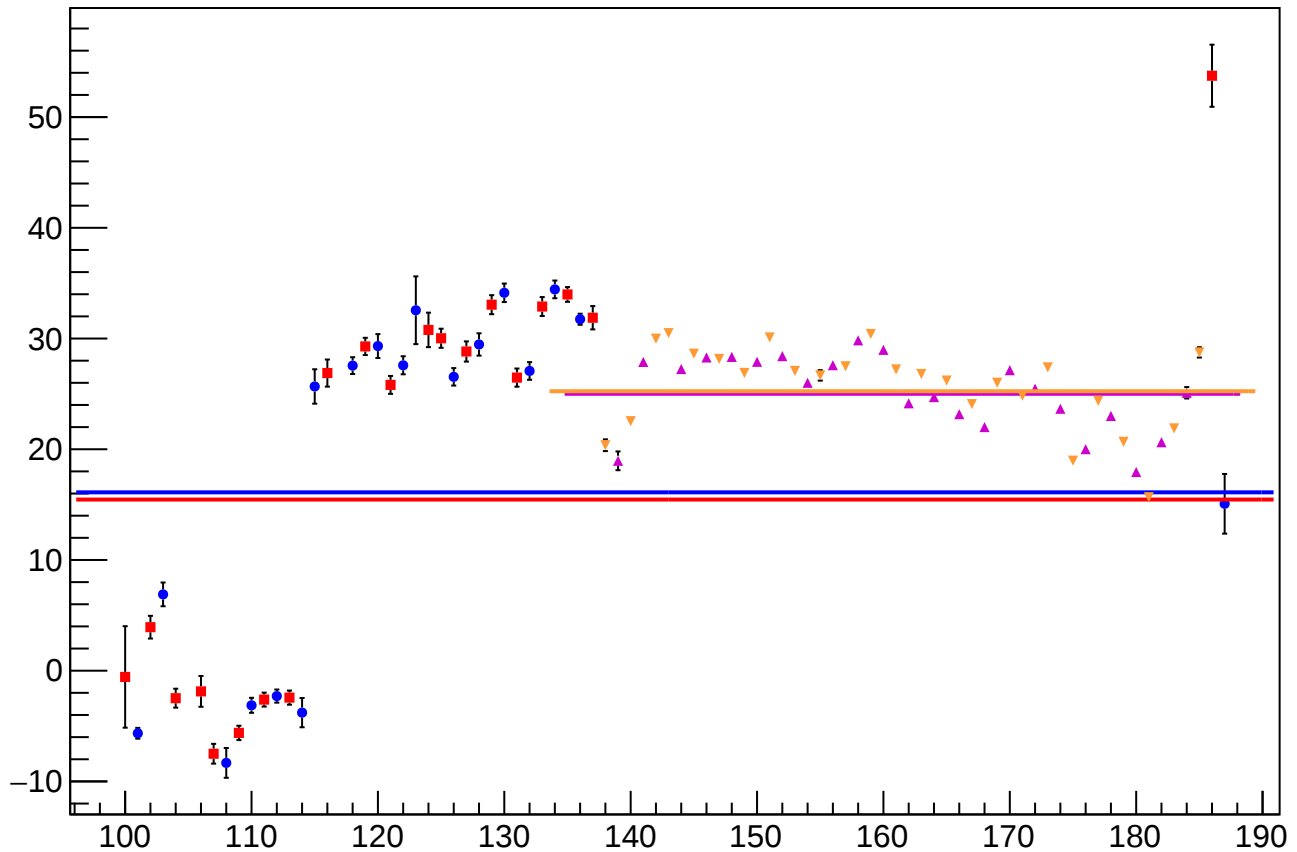
Right: -28.621 ± 0.204 $\chi^2/\text{NDF}: 3324.3/37$

In: -22.517 ± 0.069 $\chi^2/\text{NDF}: 18891.6/40$

Out: -23.004 ± 0.069 $\chi^2/\text{NDF}: 22861.4/44$

All: -22.763 ± 0.049 $\chi^2/\text{NDF}: 41778.0/85$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 16.110 $\pm$ 0.192 χ^2 /NDF: 7542.2/17

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF: 3786.5/24

Right Out: 15.458 $\pm$ 0.197 χ^2 /NDF: 7448.7/19

Left In: 25.009 $\pm$ 0.064 χ^2 /NDF: 2722.0/22

Left: 25.128 $\pm$ 0.045 χ^2 /NDF: 6515.2/47

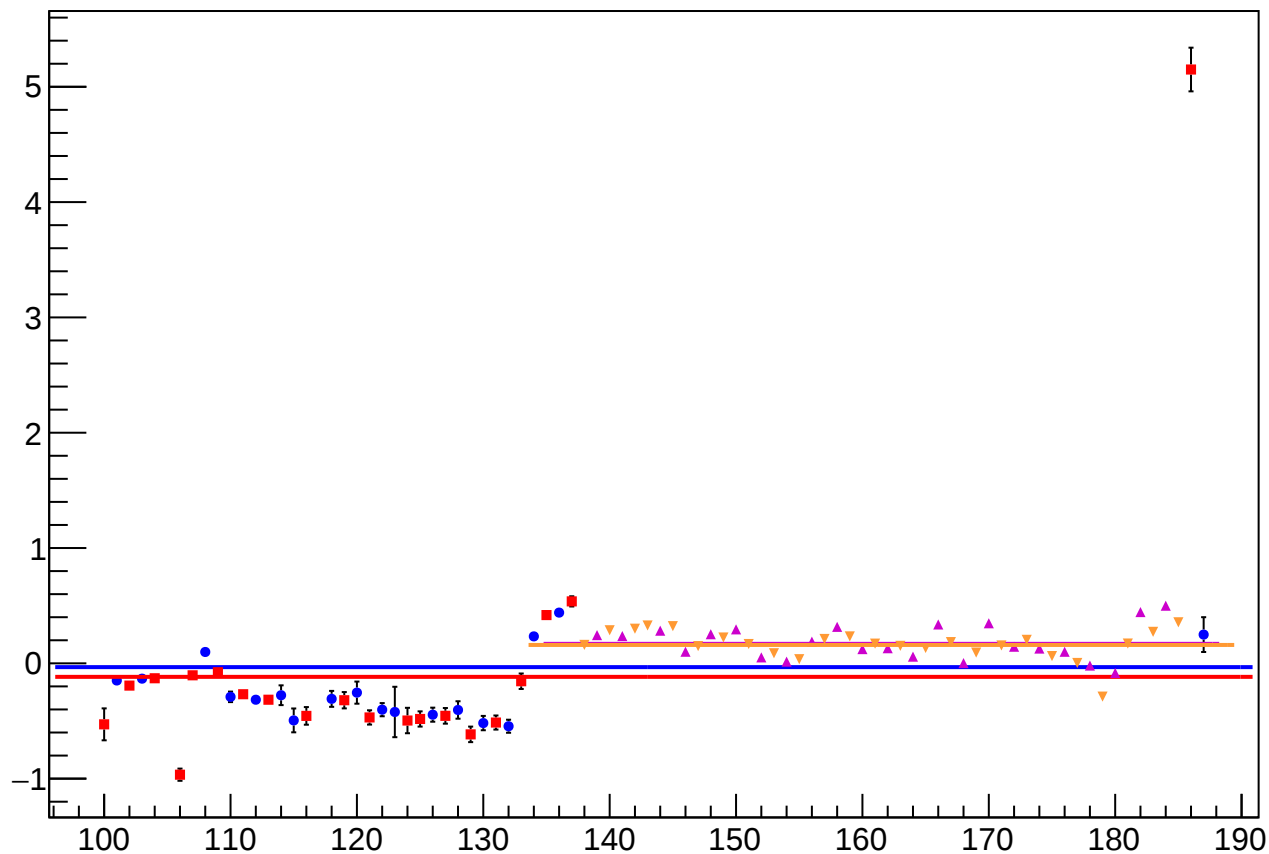
Right: 15.792 $\pm$ 0.137 χ^2 /NDF: 14996.5/37

In: 24.122 $\pm$ 0.061 χ^2 /NDF: 12200.3/40

Out: 24.343 $\pm$ 0.060 χ^2 /NDF: 13477.8/44

All: 24.234 $\pm$ 0.043 χ^2 /NDF: 25684.8/85

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: -0.117 ± 0.010 χ^2/NDF : 1936.1/19

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

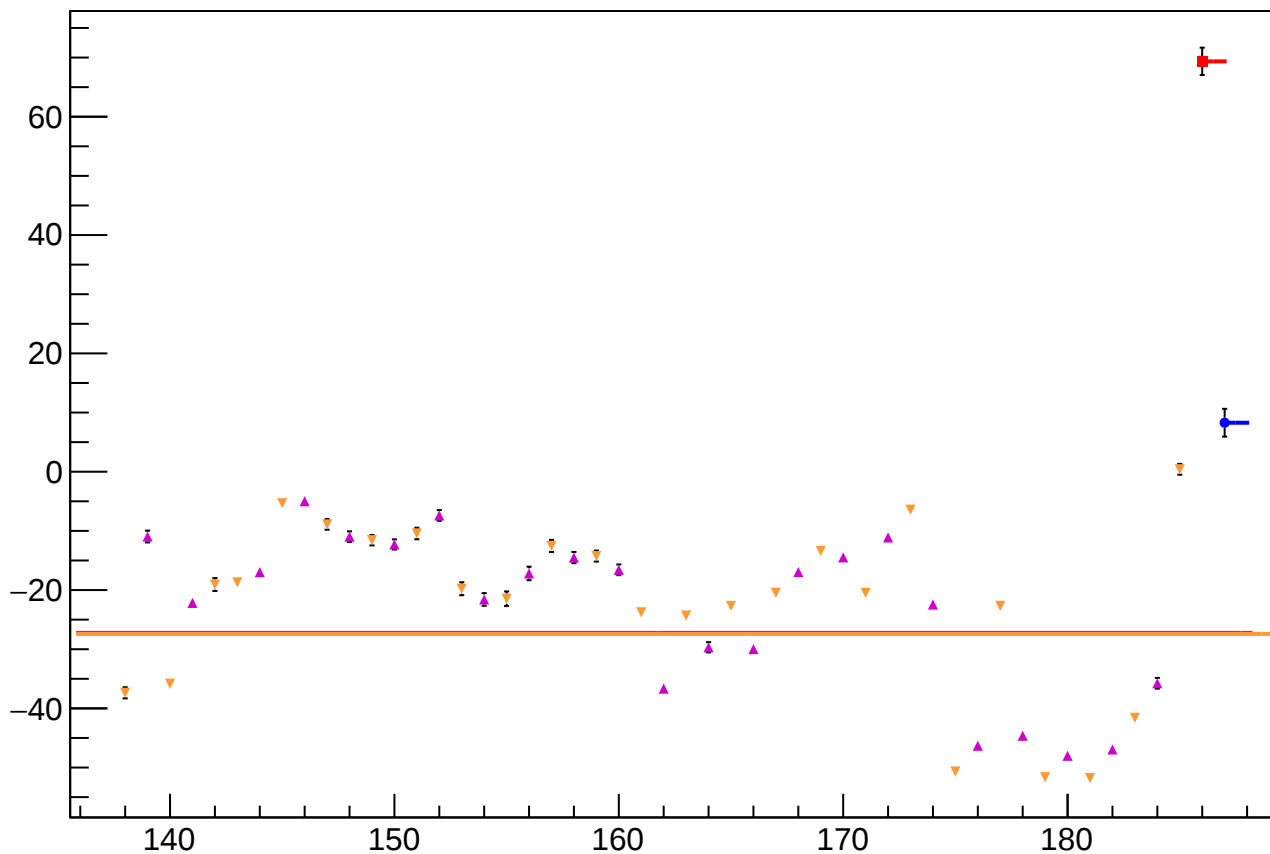
Right: -0.075 ± 0.007 χ^2/NDF : 2984.3/37

In: 0.154 ± 0.003 χ^2/NDF : 3788.1/40

Out: 0.140 ± 0.003 χ^2/NDF : 4461.7/44

All: 0.147 ± 0.002 χ^2/NDF : 8263.0/85

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: 69.353 ± 2.317 χ^2/NDF : 0.0/0

Left In: -27.243 ± 0.139 χ^2/NDF : 11305.2/22

Left: -27.327 ± 0.098 χ^2/NDF : 26156.4/47

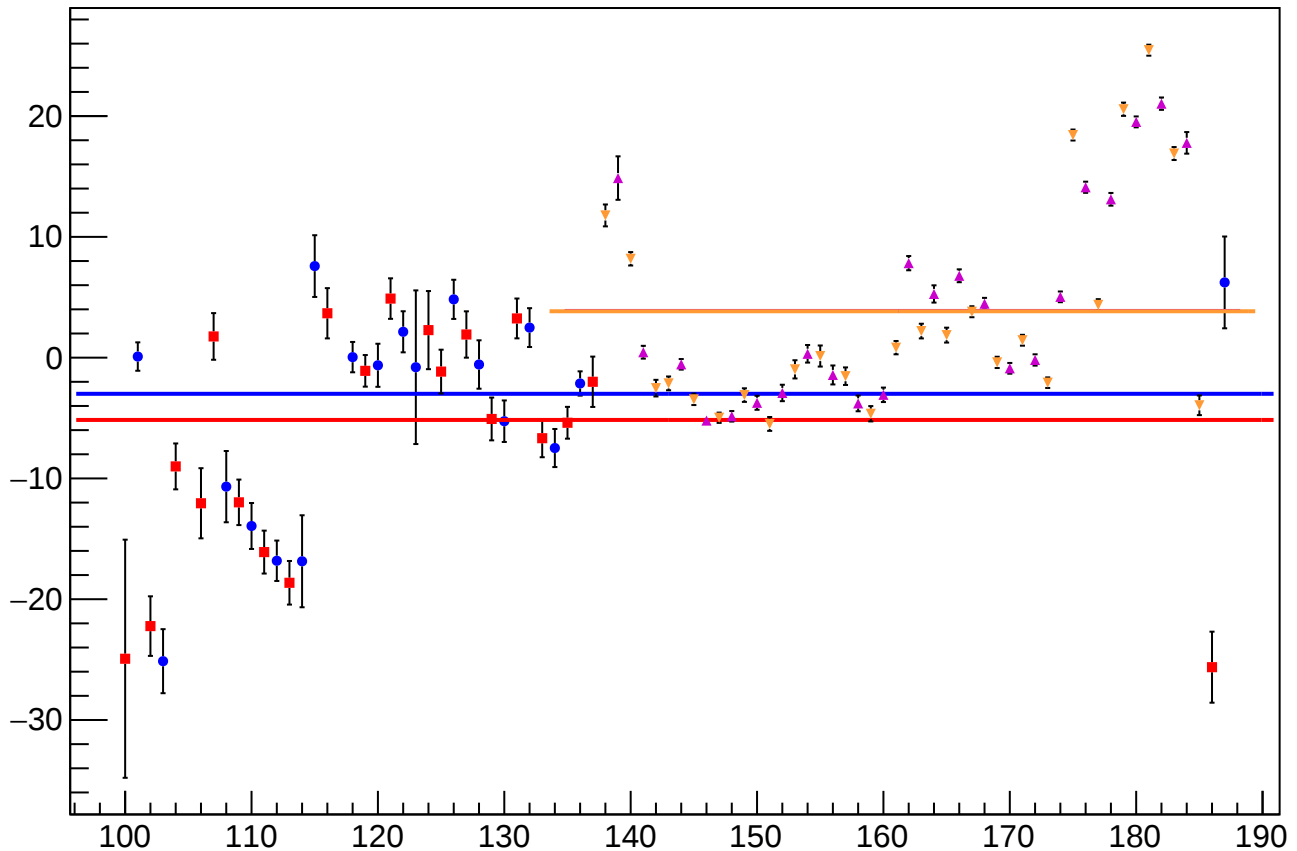
Right: 39.250 ± 1.650 χ^2/NDF : 342.3/1

In: -27.118 ± 0.139 χ^2/NDF : 11532.8/23

Out: -27.072 ± 0.137 χ^2/NDF : 16587.7/25

All: -27.095 ± 0.097 χ^2/NDF : 28120.6/49

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.993 ± 0.409 χ^2/NDF : 284.8/17

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -5.157 ± 0.423 χ^2/NDF : 346.3/19

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

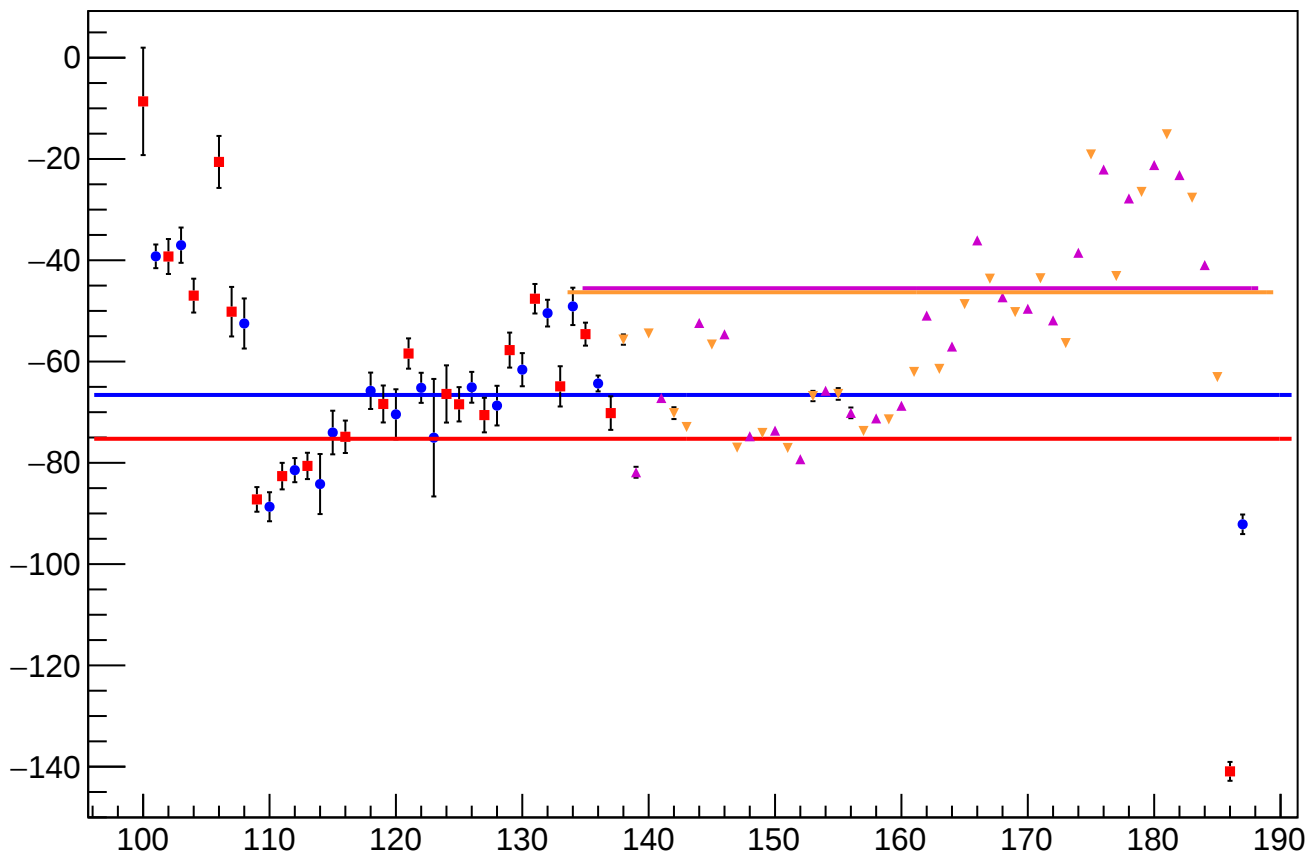
Right: -4.040 ± 0.294 χ^2/NDF : 644.6/37

In: 3.394 ± 0.107 χ^2/NDF : 5970.4/40

Out: 3.278 ± 0.106 χ^2/NDF : 7710.3/44

All: 3.335 ± 0.075 χ^2/NDF : 13681.3/85

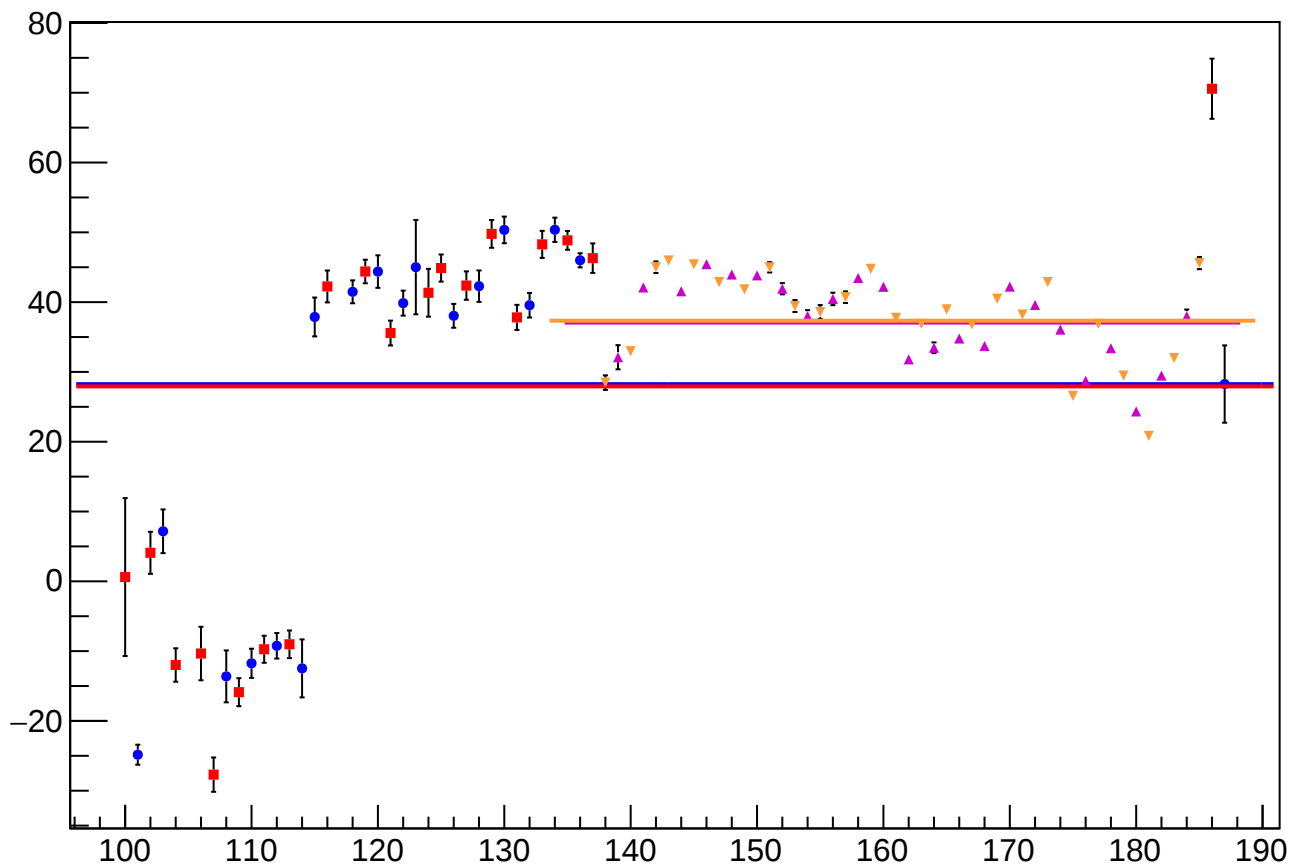
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



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: -75.251 ± 0.698 χ^2/NDF : 1890.4/19
 Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47
 Right: -70.889 ± 0.492 χ^2/NDF : 2536.1/37
 In: -46.347 ± 0.137 χ^2/NDF : 18983.4/40
 Out: -47.405 ± 0.135 χ^2/NDF : 23678.2/44
 All: -46.882 ± 0.096 χ^2/NDF : 42691.9/85

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: 27.928 $\pm$ 0.477 χ^2 /NDF: 3130.7/19

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

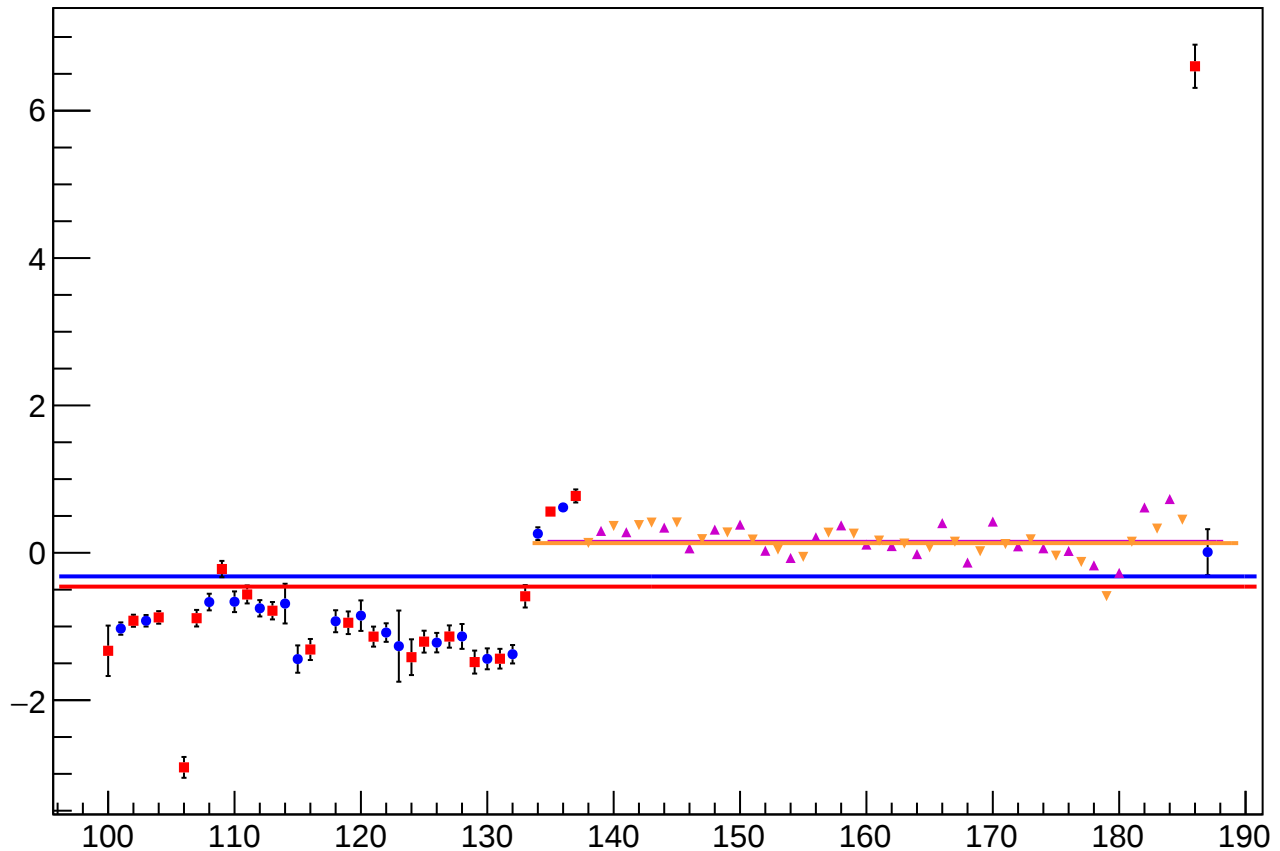
Right: 28.094 $\pm$ 0.331 χ^2 /NDF: 6441.8/37

In: 36.463 $\pm$ 0.121 χ^2 /NDF:6052.0/40

Out: 36.754 $\pm$ 0.119 χ^2 /NDF:6645.4/44

All: 36.611 $\pm$ 0.085 χ^2 /NDF: 12700.3/85

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: -0.459 ± 0.026 χ^2/NDF : 1743.8/19

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

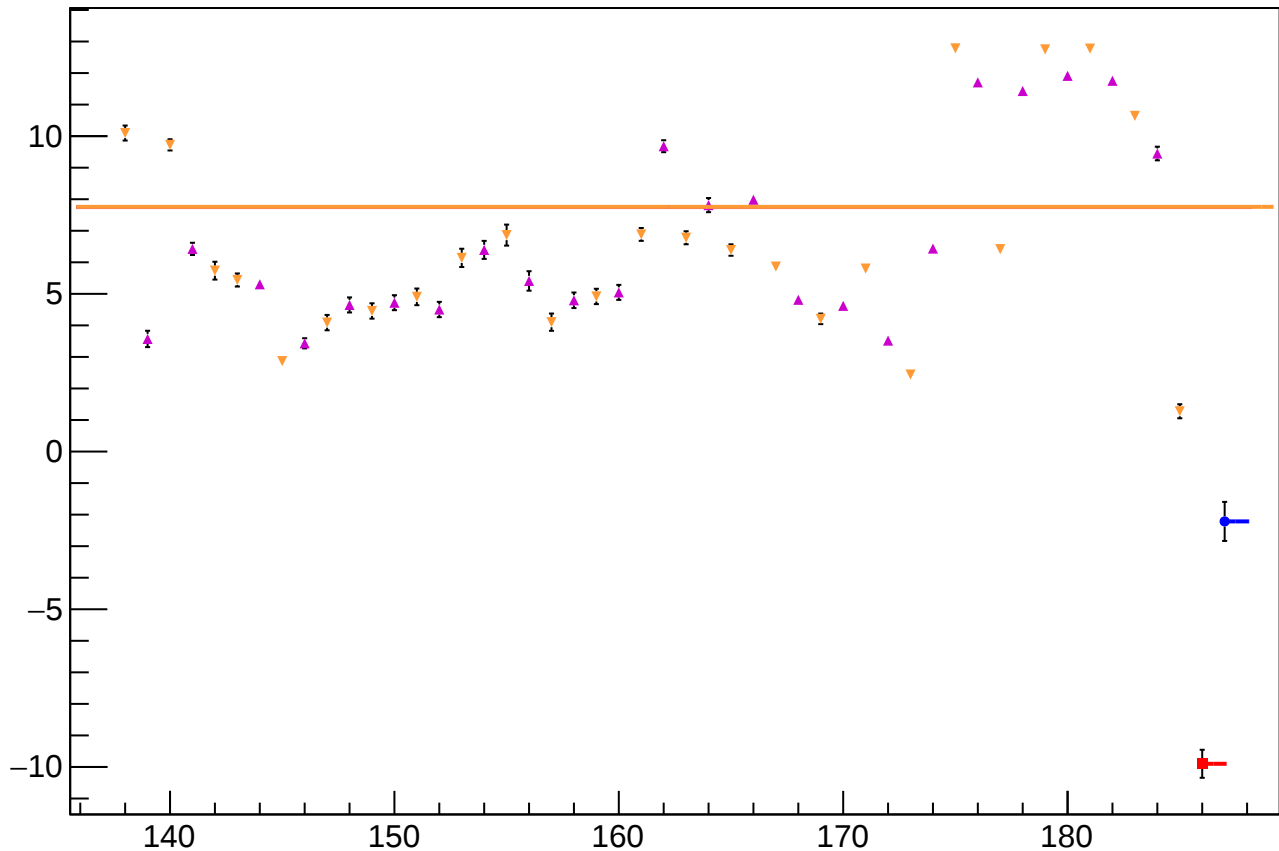
Right: -0.387 ± 0.018 χ^2/NDF : 2770.0/37

In: 0.125 ± 0.006 χ^2/NDF : 3151.8/40

Out: 0.104 ± 0.006 χ^2/NDF : 3674.0/44

All: 0.114 ± 0.004 χ^2/NDF : 6832.9/85

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: -9.899 ± 0.444 χ^2/NDF : 0.0/0

Left In: 7.753 ± 0.035 χ^2/NDF : 8345.2/22

Left: 7.755 ± 0.025 χ^2/NDF : 20073.8/47

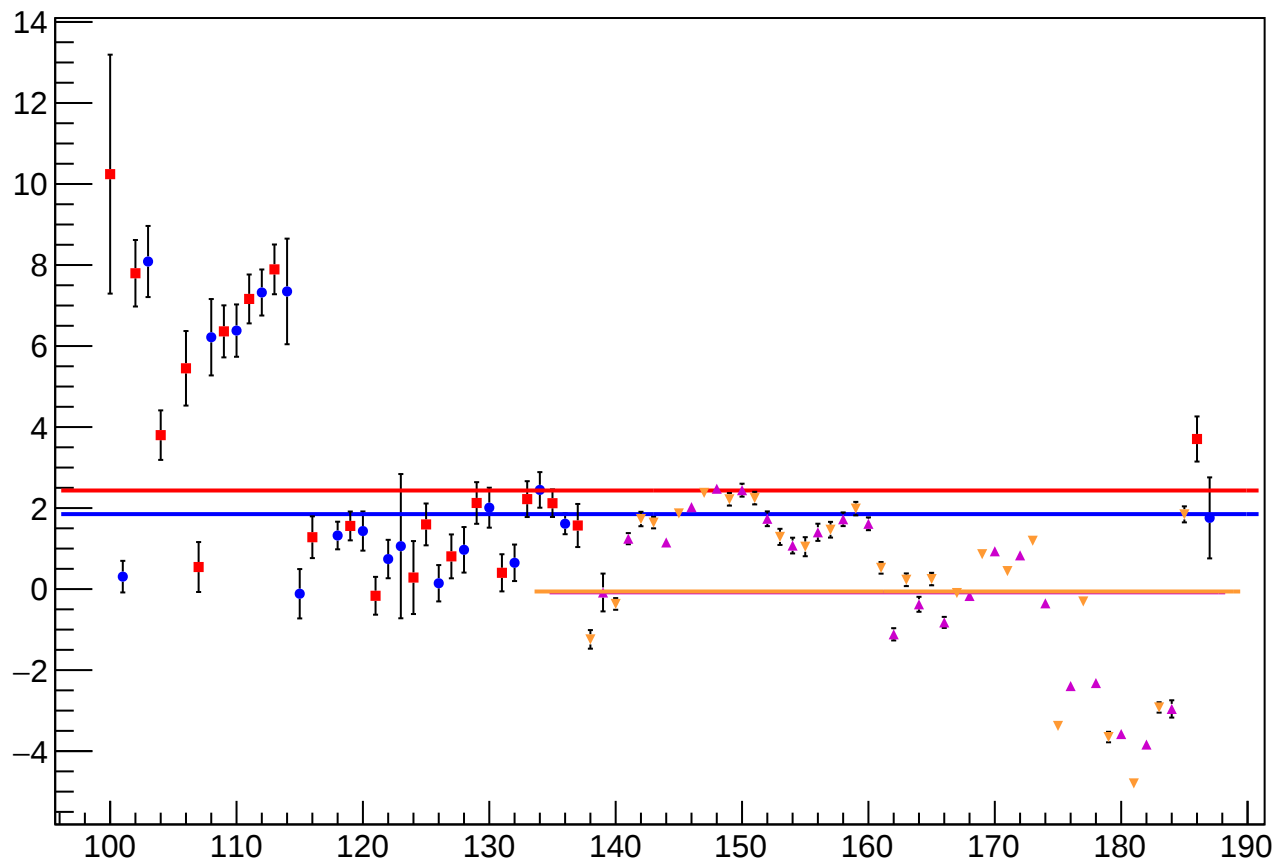
Right: -7.286 ± 0.361 χ^2/NDF : 101.7/1

In: 7.721 ± 0.035 χ^2/NDF : 8603.7/23

Out: 7.652 ± 0.034 χ^2/NDF : 13298.8/25

All: 7.686 ± 0.024 χ^2/NDF : 21904.5/49

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.851 ± 0.117 χ^2/NDF : 293.3/17

Left Out: -0.059 ± 0.028 χ^2/NDF : 6068.8/24

Right Out: 2.434 ± 0.120 χ^2/NDF : 341.0/19

Left In: -0.080 ± 0.028 χ^2/NDF : 4979.5/22

Left: -0.070 ± 0.020 χ^2/NDF : 11048.5/47

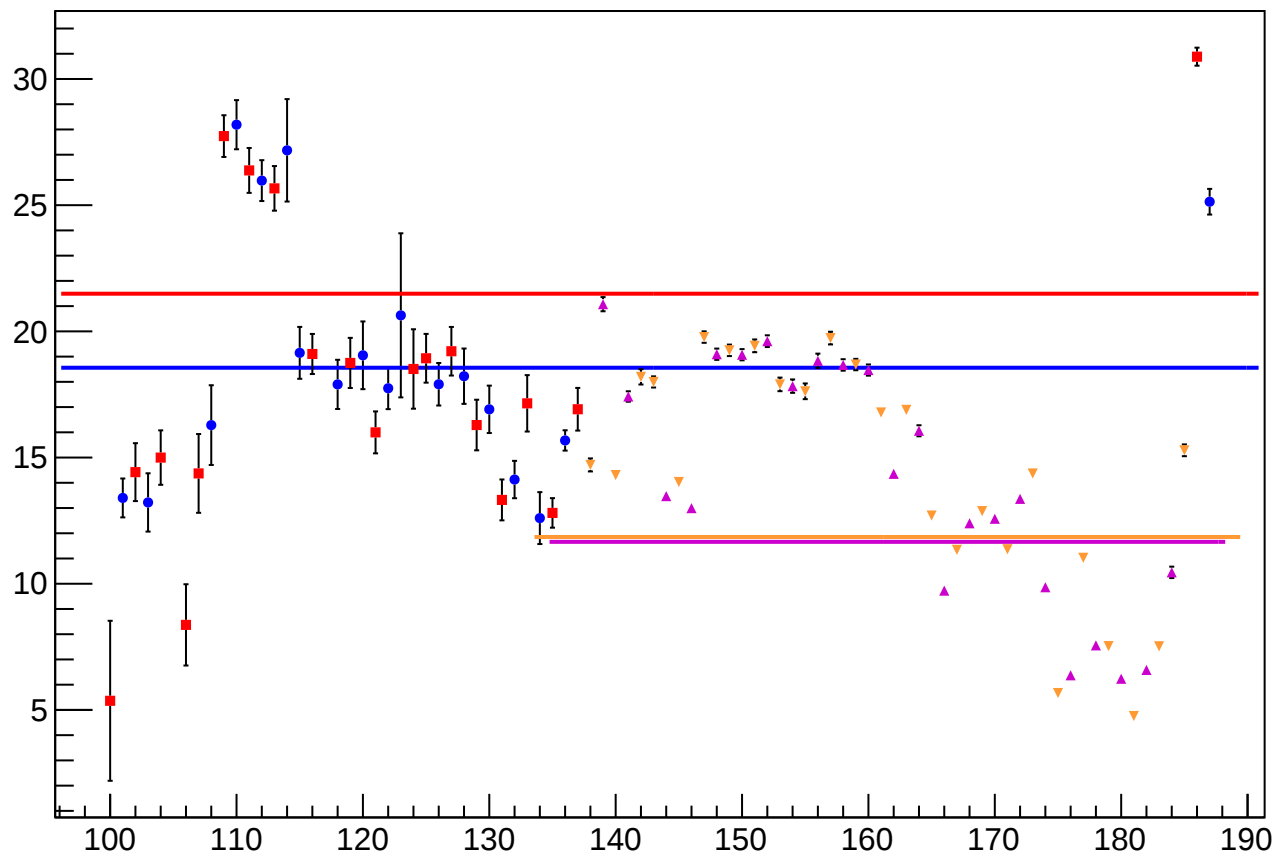
Right: 2.134 ± 0.084 χ^2/NDF : 646.4/37

In: 0.027 ± 0.027 χ^2/NDF : 5532.2/40

Out: 0.068 ± 0.027 χ^2/NDF : 6820.4/44

All: 0.048 ± 0.019 χ^2/NDF : 12353.8/85

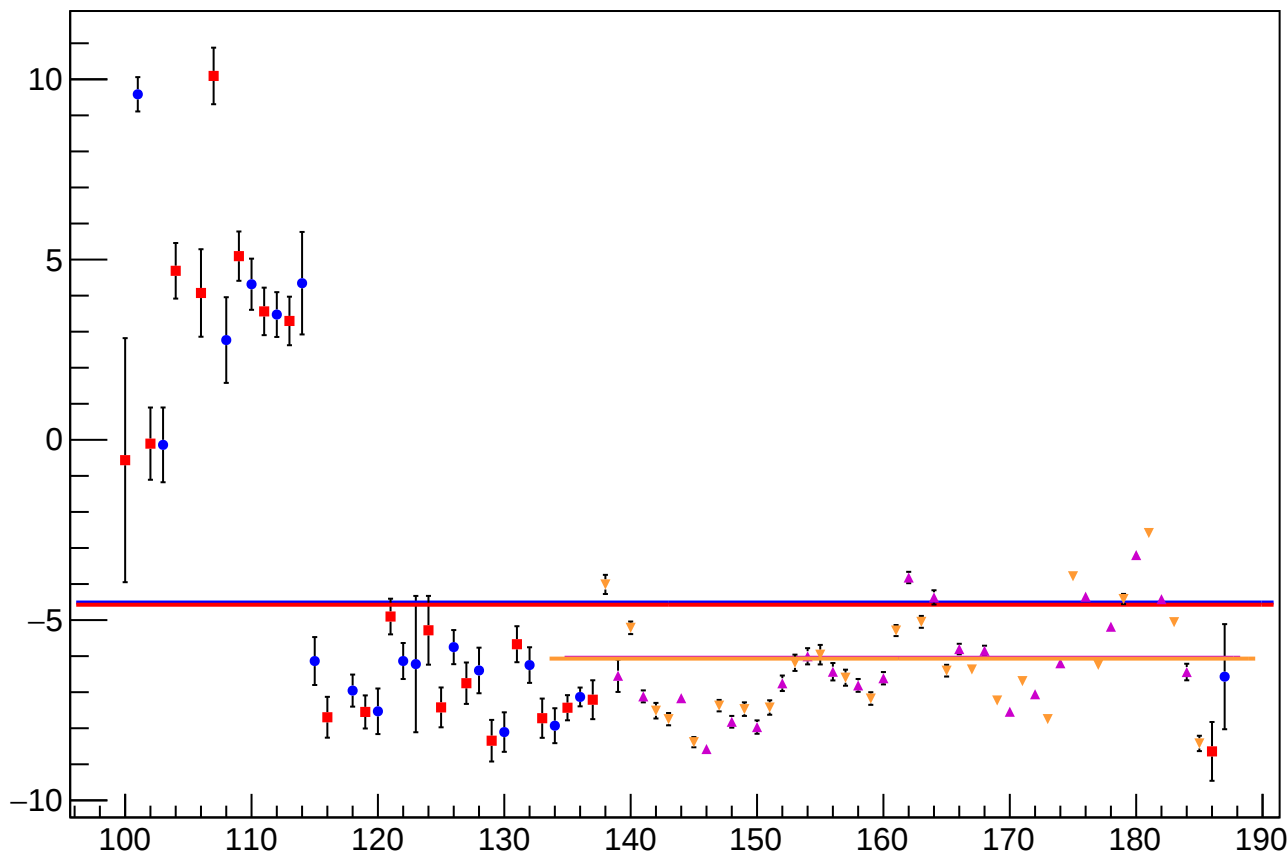
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.559 +/- 0.196 χ^2/NDF : 561.8/17
 Left Out: 11.853 +/- 0.035 χ^2/NDF : 19149.4/24
 Right Out: 21.492 +/- 0.187 χ^2/NDF : 1459.1/19
 Left In: 11.660 +/- 0.035 χ^2/NDF : 16710.2/22

Left: 11.758 +/- 0.025 χ^2/NDF : 35874.9/47
 Right: 20.098 +/- 0.135 χ^2/NDF : 2137.9/37
 In: 11.875 +/- 0.035 χ^2/NDF : 18467.9/40
 Out: 12.173 +/- 0.034 χ^2/NDF : 23178.6/44
 All: 12.026 +/- 0.024 χ^2/NDF : 41684.3/85

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: -4.574 ± 0.135 χ^2/NDF : 1366.1/19

Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47

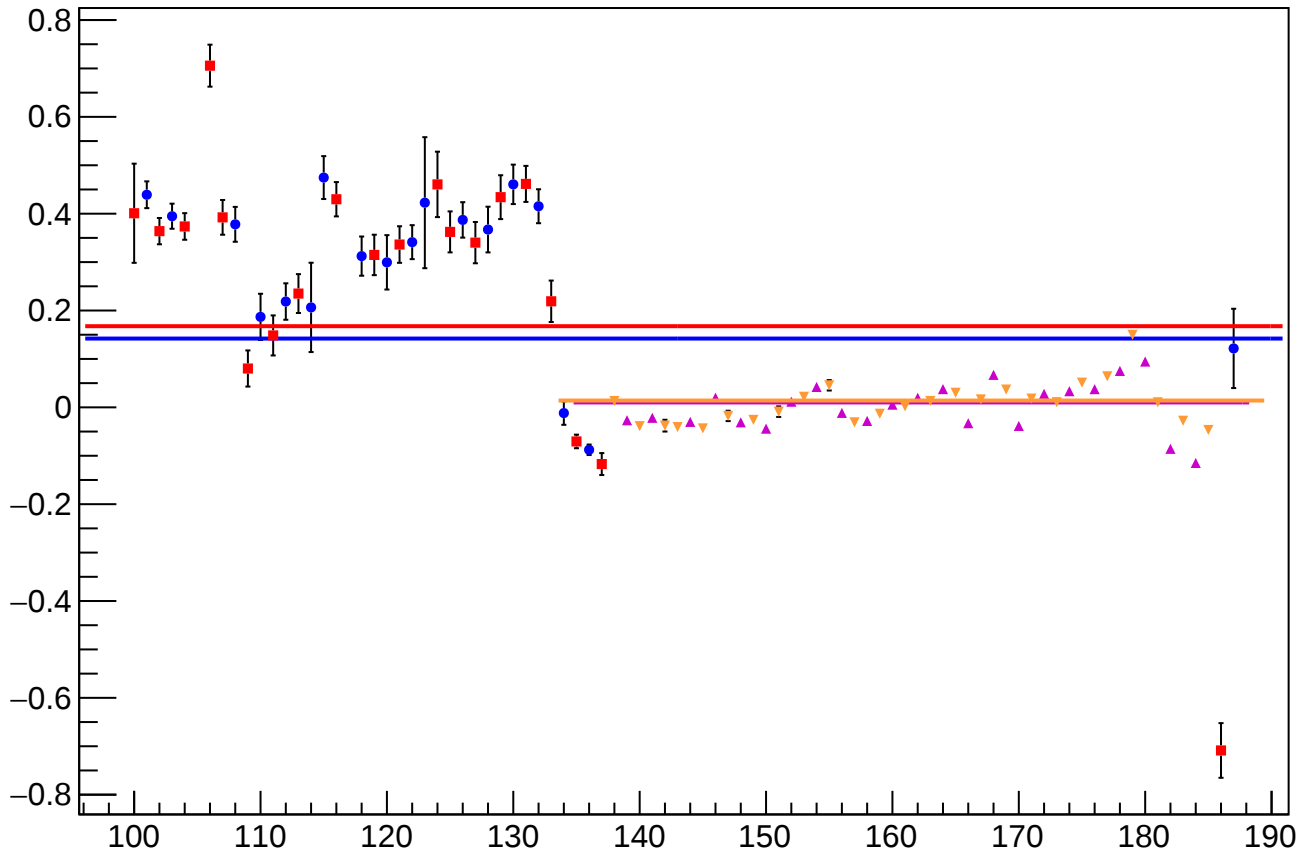
Right: -4.542 ± 0.094 χ^2/NDF : 2951.0/37

In: -5.959 ± 0.031 χ^2/NDF : 4009.5/40

Out: -5.993 ± 0.030 χ^2/NDF : 4153.7/44

All: -5.976 ± 0.022 χ^2/NDF : 8163.8/85

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: 0.168 $\pm$ 0.007 χ^2 /NDF: 1244.0/19

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

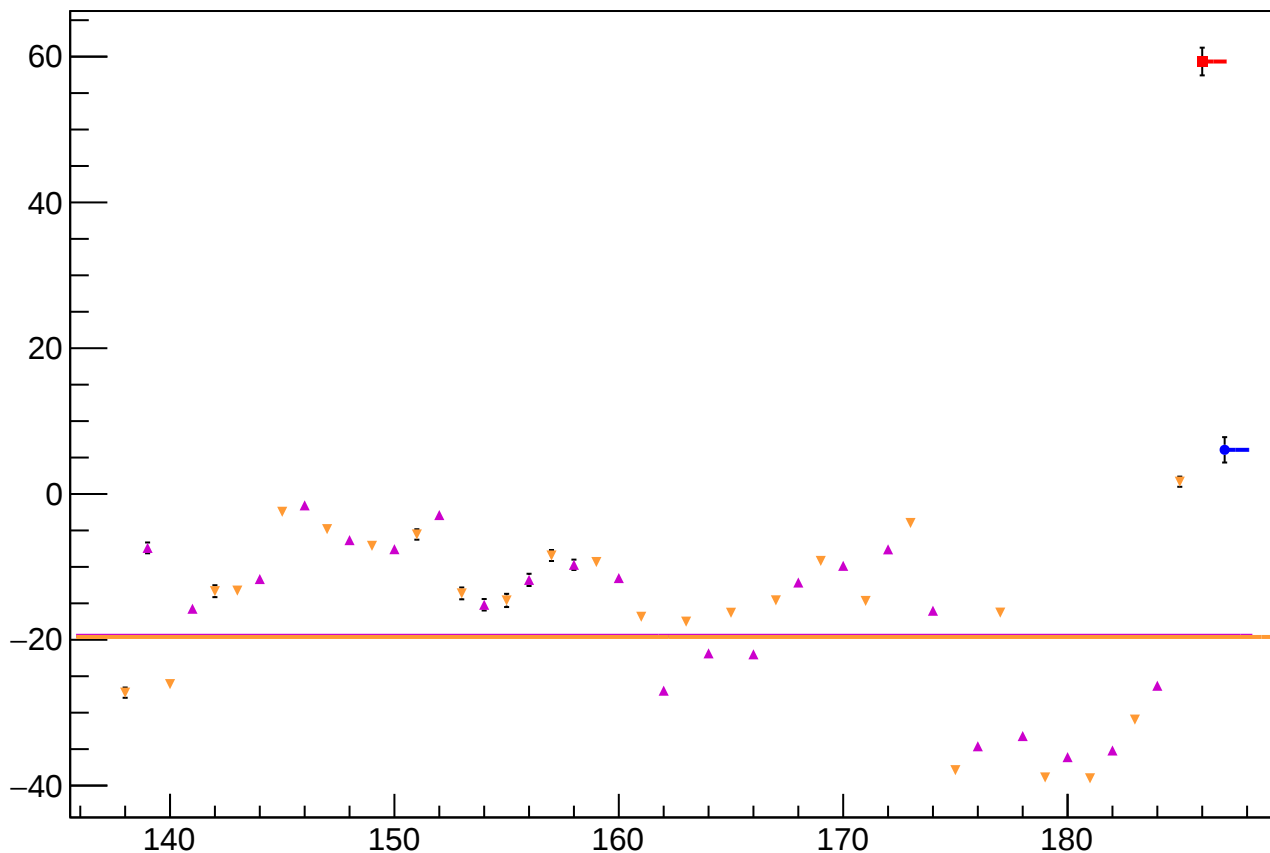
Right: 0.154 $\pm$ 0.005 χ^2 /NDF: 2308.1/37

In: 0.015 $\pm$ 0.001 χ^2 /NDF: 2610.3/40

Out: 0.020 $\pm$ 0.001 χ^2 /NDF: 2620.8/44

All: 0.018 $\pm$ 0.001 χ^2 /NDF: 5235.4/85

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: 59.330+/-1.901 χ^2/NDF : 0.0/0

Left In: -19.450+/-0.105 χ^2/NDF :12283.1/22

Left: -19.533+/-0.074 χ^2/NDF : 28045.6/47

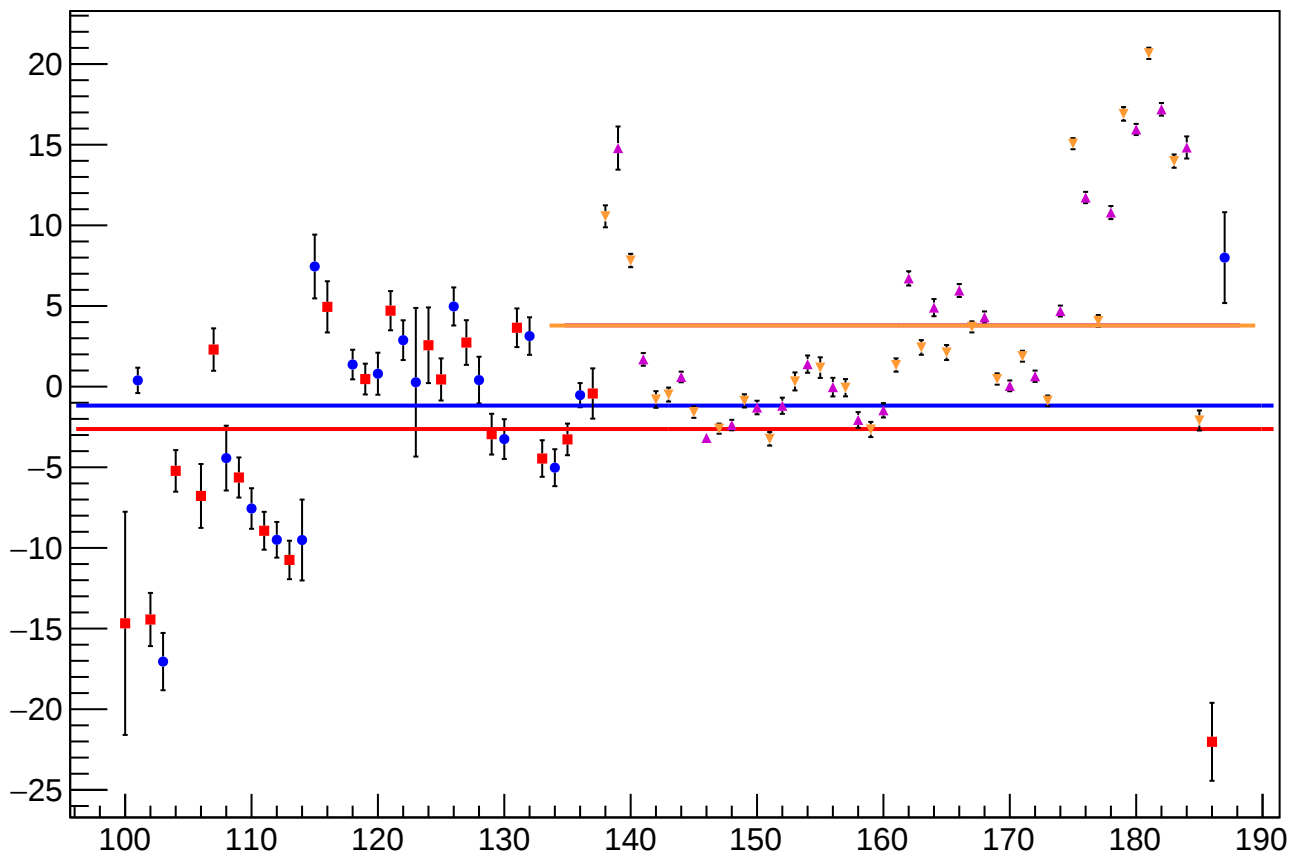
Right: 30.371+/-1.284 χ^2/NDF : 427.0/1

In: -19.358+/-0.105 χ^2/NDF :12496.9/23

Out: -19.380+/-0.103 χ^2/NDF :17481.3/25

All: -19.369+/-0.074 χ^2/NDF : 29978.2/49

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: -2.629 ± 0.300 χ^2/NDF : 349.8/19

Left In: 3.799 ± 0.084 χ^2/NDF : 5517.0/22

Left: 3.793 ± 0.059 χ^2/NDF : 12667.5/47

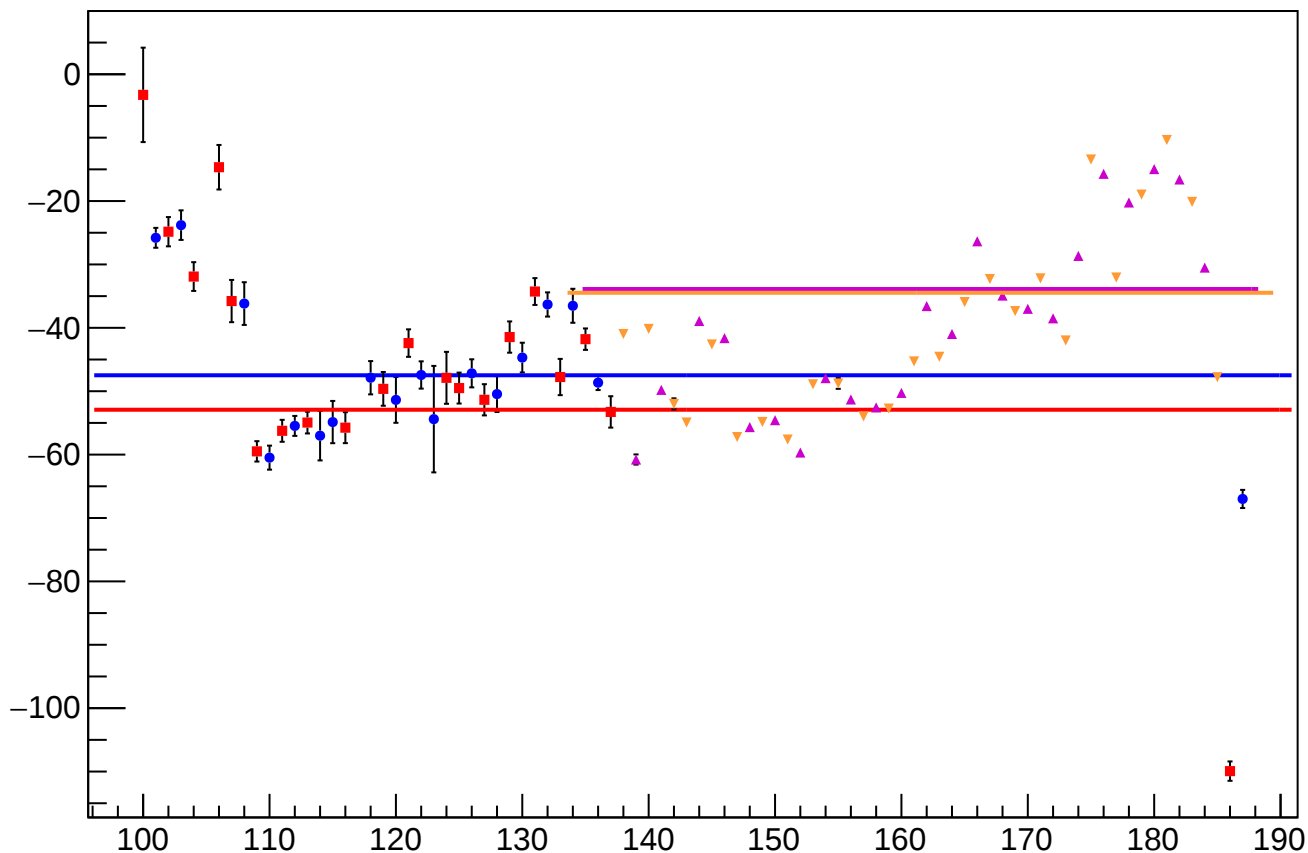
Right: -1.880 ± 0.209 χ^2/NDF : 649.1/37

In: 3.420 ± 0.080 χ^2/NDF : 6073.7/40

Out: 3.342 ± 0.079 χ^2/NDF : 7924.9/44

All: 3.381 ± 0.056 χ^2/NDF : 13999.0/85

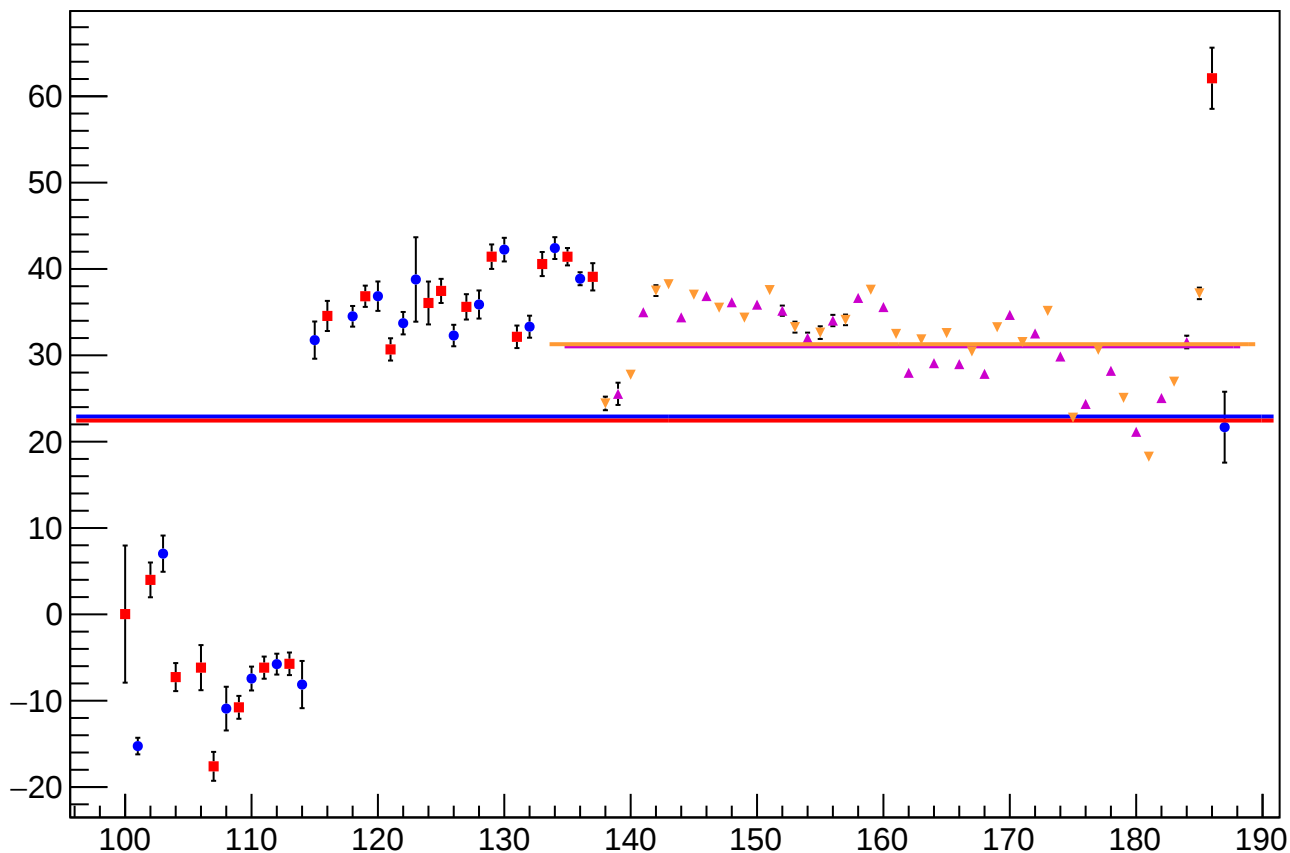
reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -47.485 ± 0.493 $\chi^2/\text{NDF}: 631.0/17$
 Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF}: 20196.3/24$
 Right Out: -52.921 ± 0.500 $\chi^2/\text{NDF}: 2014.1/19$
 Left In: -33.875 ± 0.105 $\chi^2/\text{NDF}: 17638.7/22$

Left: -34.177 ± 0.074 $\chi^2/\text{NDF}: 37851.2/47$
 Right: -50.164 ± 0.351 $\chi^2/\text{NDF}: 2704.9/37$
 In: -34.468 ± 0.103 $\chi^2/\text{NDF}: 18998.5/40$
 Out: -35.235 ± 0.102 $\chi^2/\text{NDF}: 23514.4/44$
 All: -34.856 ± 0.072 $\chi^2/\text{NDF}: 42540.9/85$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.909+/-0.328 χ^2 /NDF: 4317.3/17

Left Out: 31.286+/-0.092 χ^2 /NDF:3345.7/24

Right Out: 22.444+/-0.339 χ^2 /NDF: 4156.3/19

Left In: 31.039+/-0.094 χ^2 /NDF:2480.0/22

Left: 31.165+/-0.066 χ^2 /NDF: 5829.2/47

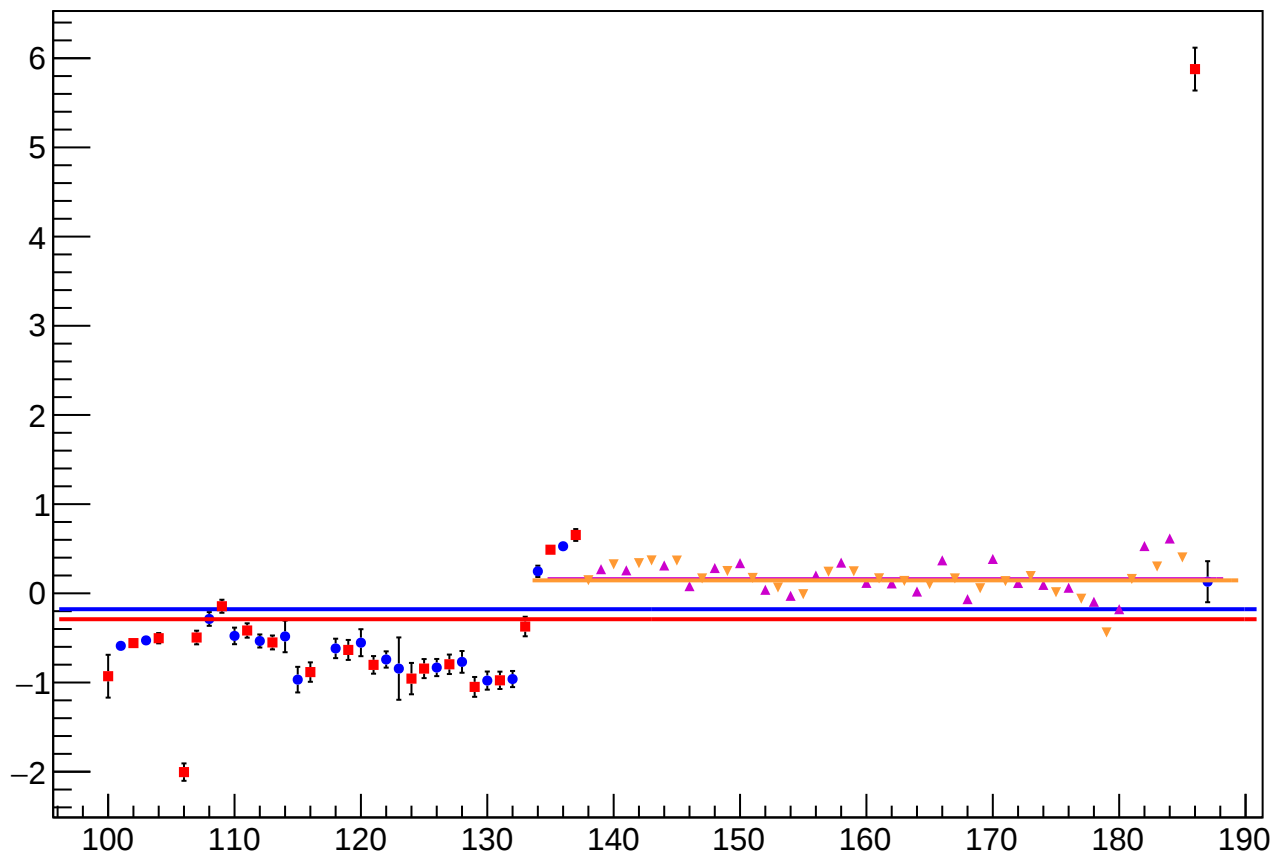
Right: 22.685+/-0.236 χ^2 /NDF: 8474.5/37

In: 30.418+/-0.090 χ^2 /NDF:7366.1/40

Out: 30.675+/-0.089 χ^2 /NDF:8135.3/44

All: 30.549+/-0.064 χ^2 /NDF: 15505.5/85

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: -0.290 ± 0.018 χ^2/NDF : 1836.9/19

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

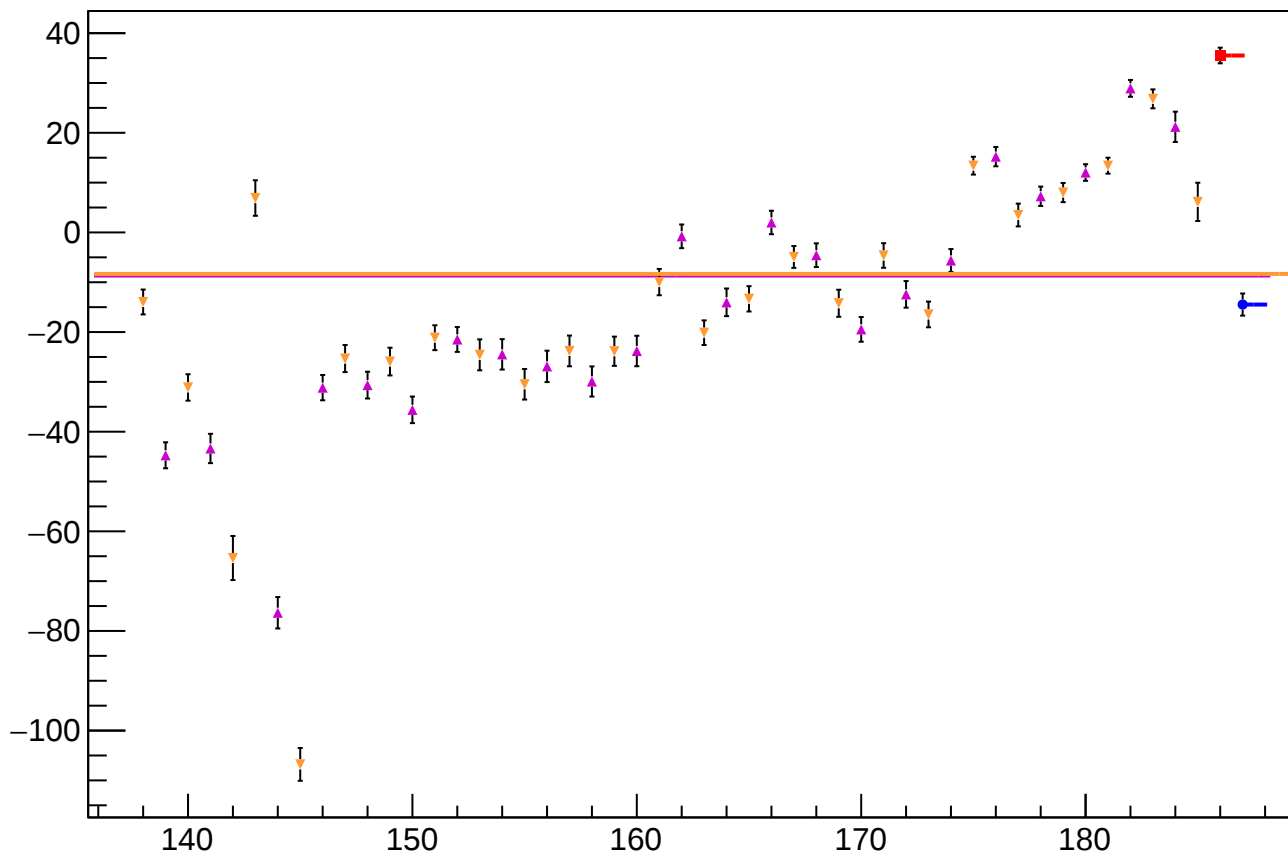
Right: -0.233 ± 0.013 χ^2/NDF : 2853.5/37

In: 0.140 ± 0.004 χ^2/NDF : 3347.6/40

Out: 0.123 ± 0.004 χ^2/NDF : 3962.3/44

All: 0.131 ± 0.003 χ^2/NDF : 7318.3/85

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.478 ± 2.220 $\chi^2/\text{NDF}: 0.0/0$

Left Out: -8.332 ± 0.500 $\chi^2/\text{NDF}: 2226.2/24$

Right Out: 35.518 ± 1.571 $\chi^2/\text{NDF}: 0.0/0$

Left In: -8.652 ± 0.507 $\chi^2/\text{NDF}: 2223.8/22$

Left: -8.490 ± 0.356 $\chi^2/\text{NDF}: 4450.2/47$

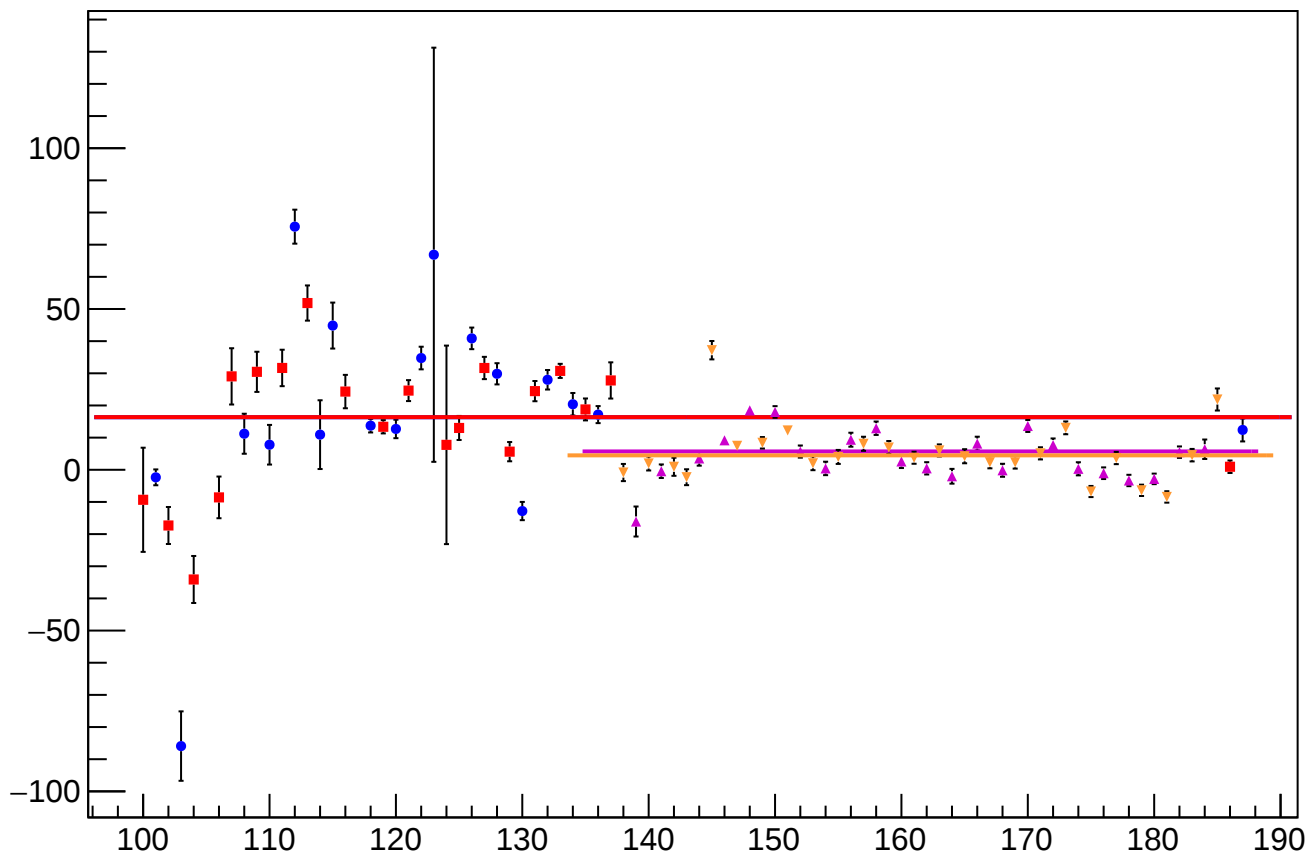
Right: 18.828 ± 1.283 $\chi^2/\text{NDF}: 337.9/1$

In: -8.941 ± 0.494 $\chi^2/\text{NDF}: 2230.4/23$

Out: -4.307 ± 0.476 $\chi^2/\text{NDF}: 2933.4/25$

All: -6.536 ± 0.343 $\chi^2/\text{NDF}: 5209.4/49$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.332 $\pm$ 0.836 χ^2 /NDF: 516.2/17

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF: 371.9/24

Right Out: 16.371 $\pm$ 0.815 χ^2 /NDF: 317.5/19

Left In: 5.705 $\pm$ 0.404 χ^2 /NDF: 324.1/22

Left: 5.076 $\pm$ 0.281 χ^2 /NDF: 700.6/47

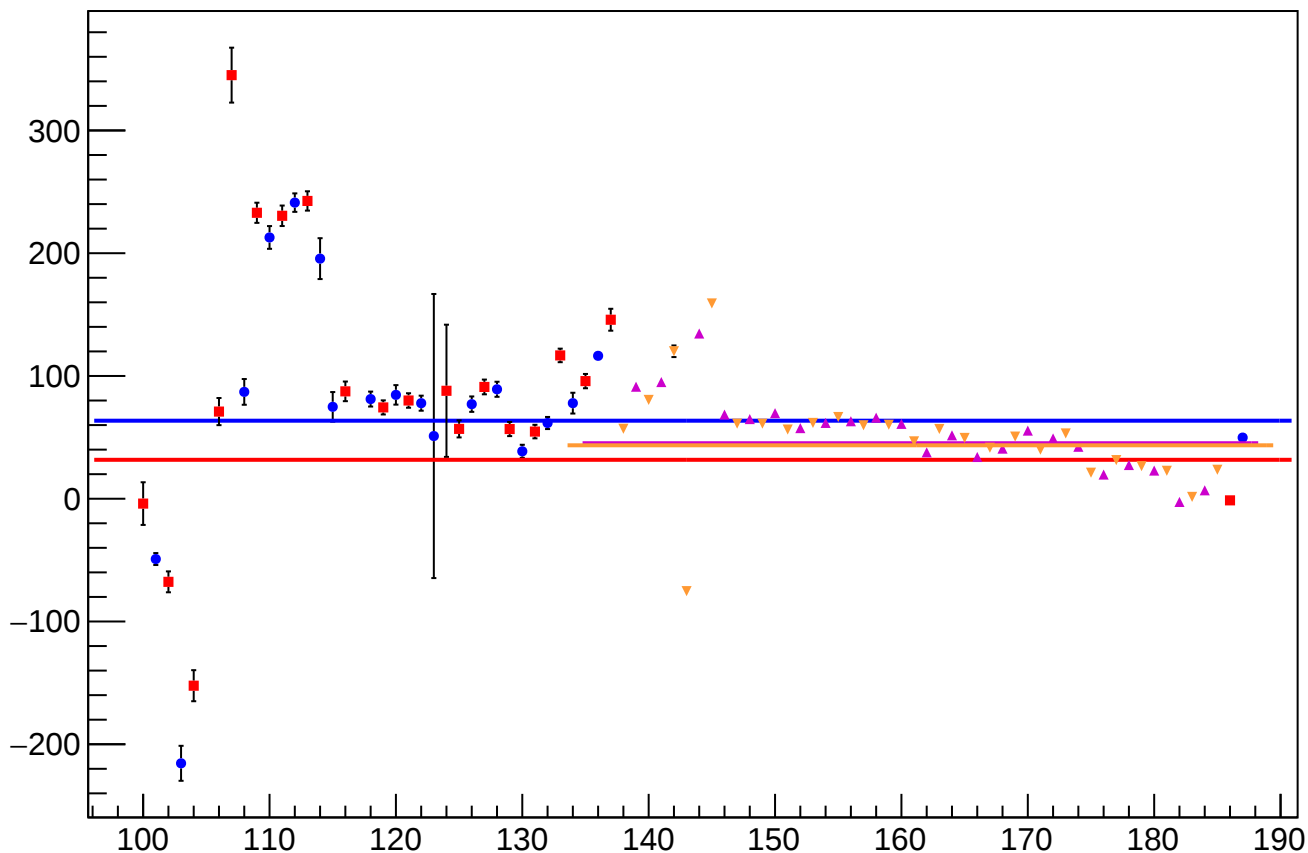
Right: 16.352 $\pm$ 0.583 χ^2 /NDF: 833.7/37

In: 7.718 $\pm$ 0.364 χ^2 /NDF: 971.2/40

Out: 6.720 $\pm$ 0.353 χ^2 /NDF: 862.2/44

All: 7.204 $\pm$ 0.253 χ^2 /NDF: 1837.2/85

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 63.564 ± 1.223 χ^2/NDF : 2097.7/17

Left Out: 43.524 ± 0.498 χ^2/NDF : 3830.7/24

Right Out: 31.711 ± 1.014 χ^2/NDF : 3977.4/19

Left In: 45.211 ± 0.504 χ^2/NDF : 3048.5/22

Left: 44.358 ± 0.354 χ^2/NDF : 6884.8/47

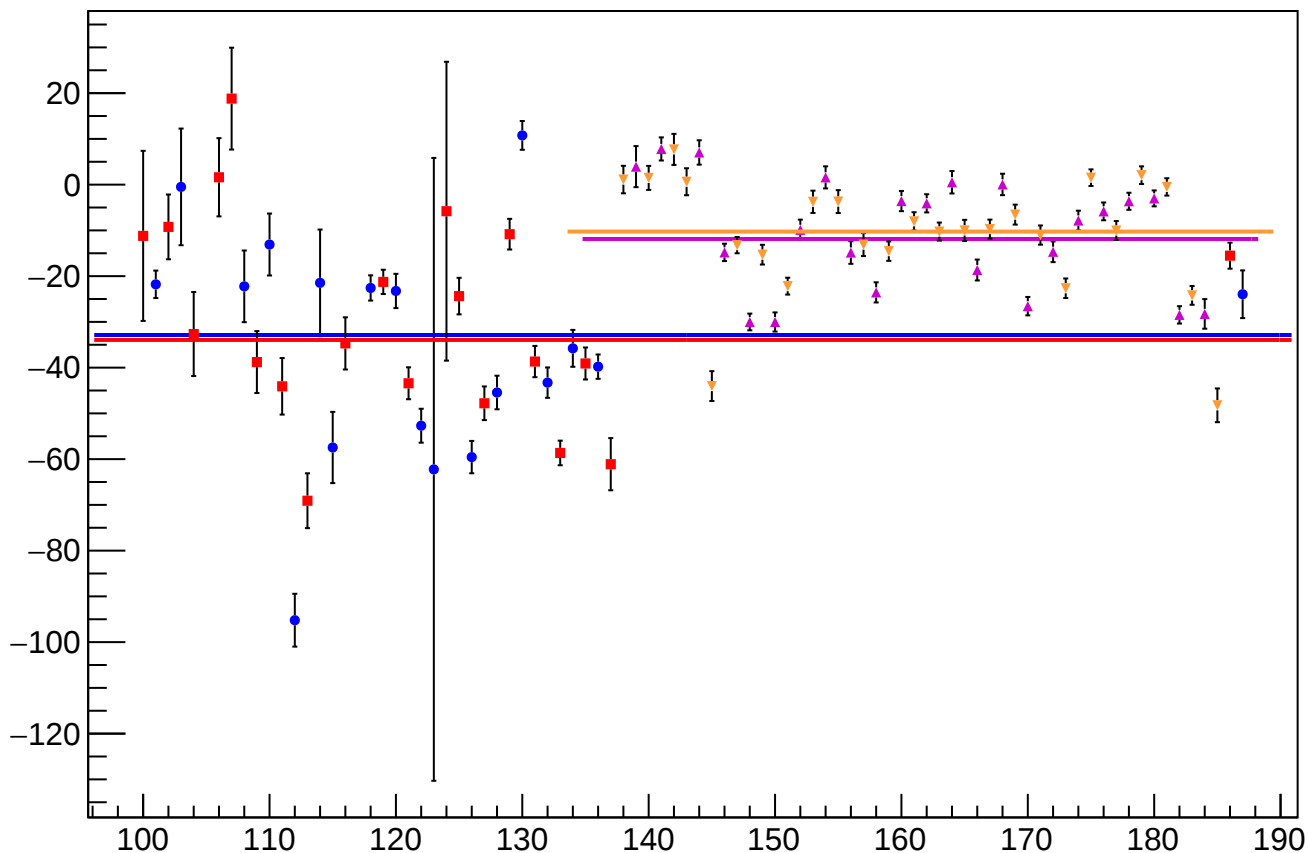
Right: 44.683 ± 0.781 χ^2/NDF : 6477.1/37

In: 47.878 ± 0.466 χ^2/NDF : 5338.6/40

Out: 41.225 ± 0.447 χ^2/NDF : 7917.4/44

All: 44.414 ± 0.323 χ^2/NDF : 13362.1/85

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -32.865 ± 0.967 χ^2/NDF : 488.4/17

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -33.945 ± 0.965 χ^2/NDF : 342.4/19

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

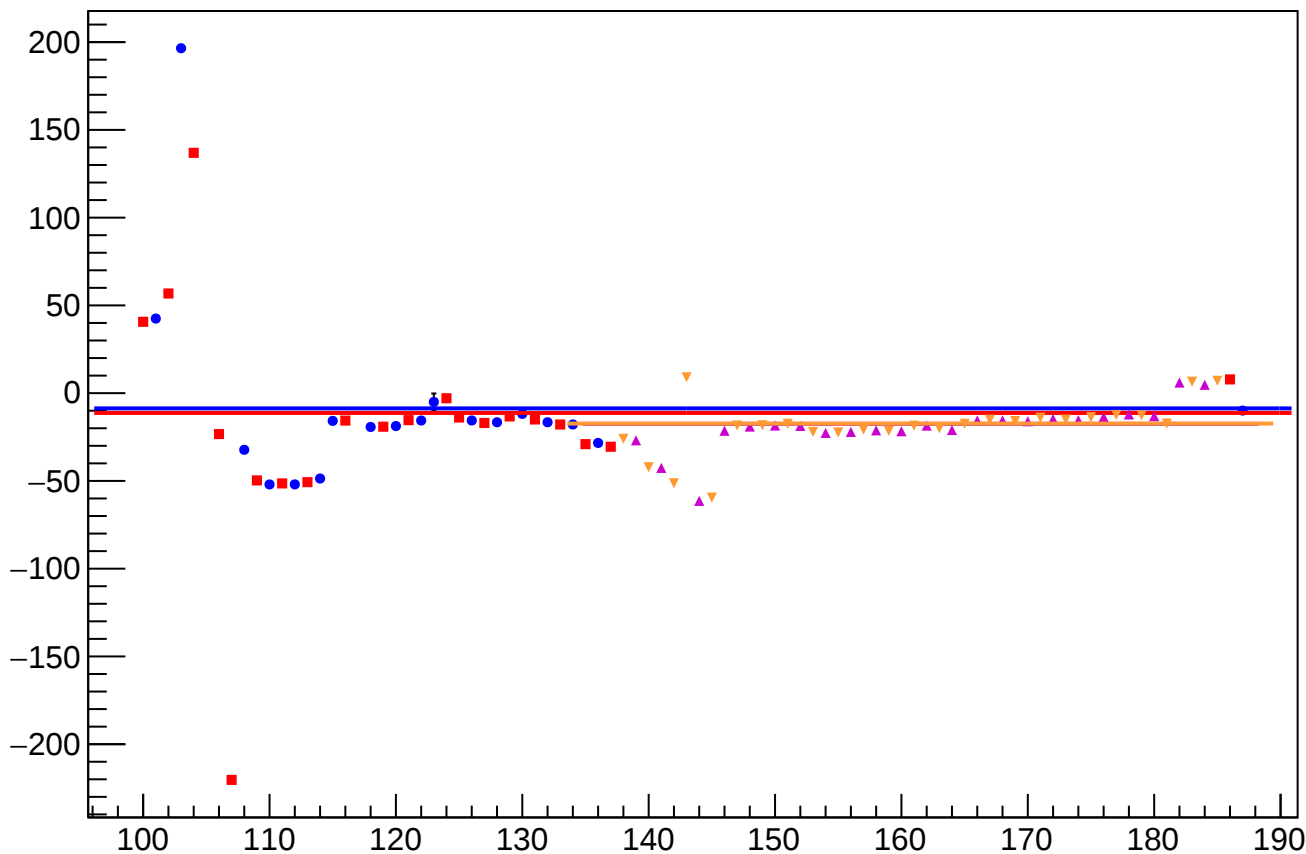
Right: -33.406 ± 0.683 χ^2/NDF : 831.5/37

In: -15.698 ± 0.412 χ^2/NDF : 1540.3/40

Out: -14.397 ± 0.404 χ^2/NDF : 1391.8/44

All: -15.034 ± 0.288 χ^2/NDF : 2937.2/85

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: -11.274 ± 0.059 χ^2/NDF : 568070.3/19

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

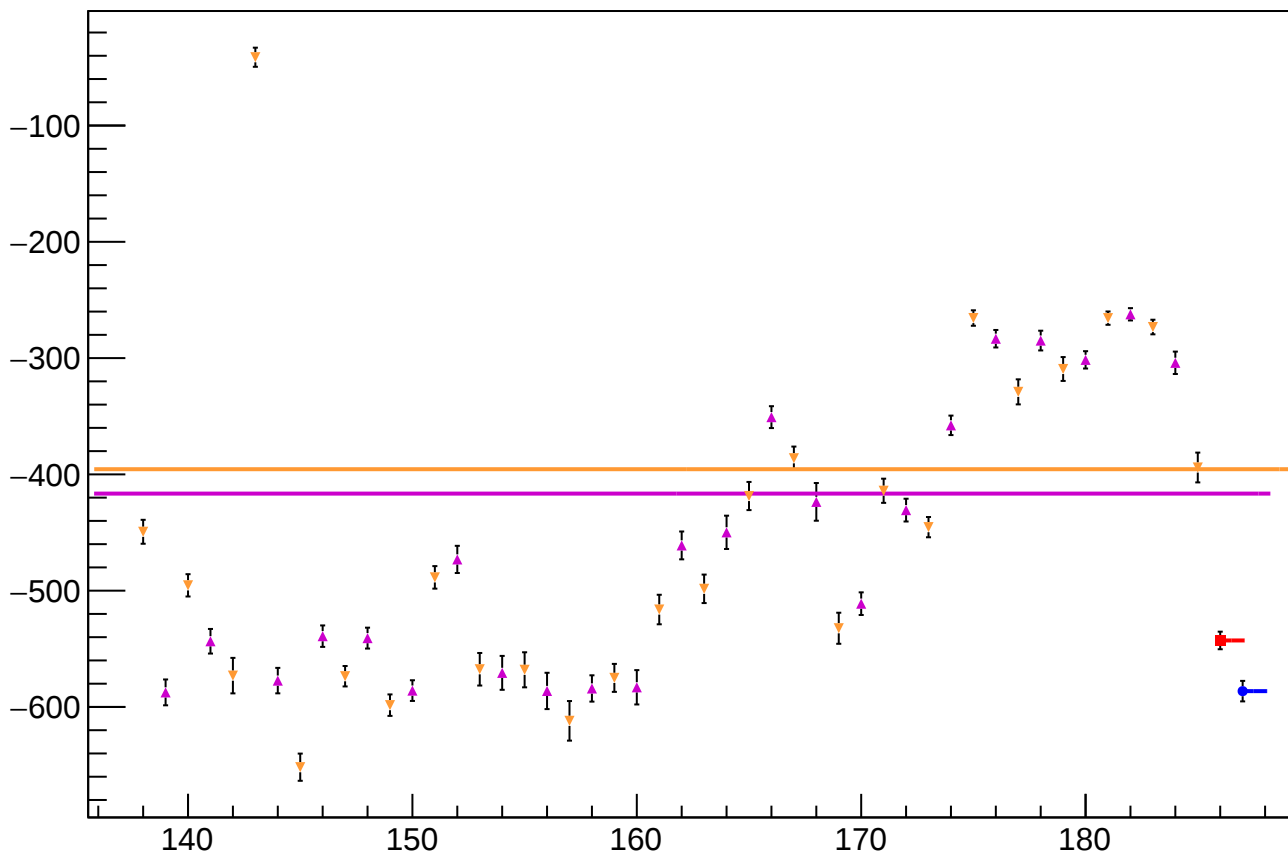
Right: -9.950 ± 0.041 χ^2/NDF : 1144627.9/37

In: -16.497 ± 0.019 χ^2/NDF : 855277.8/40

Out: -16.690 ± 0.019 χ^2/NDF : 902628.5/44

All: -16.594 ± 0.014 χ^2/NDF : 1757955.7/85

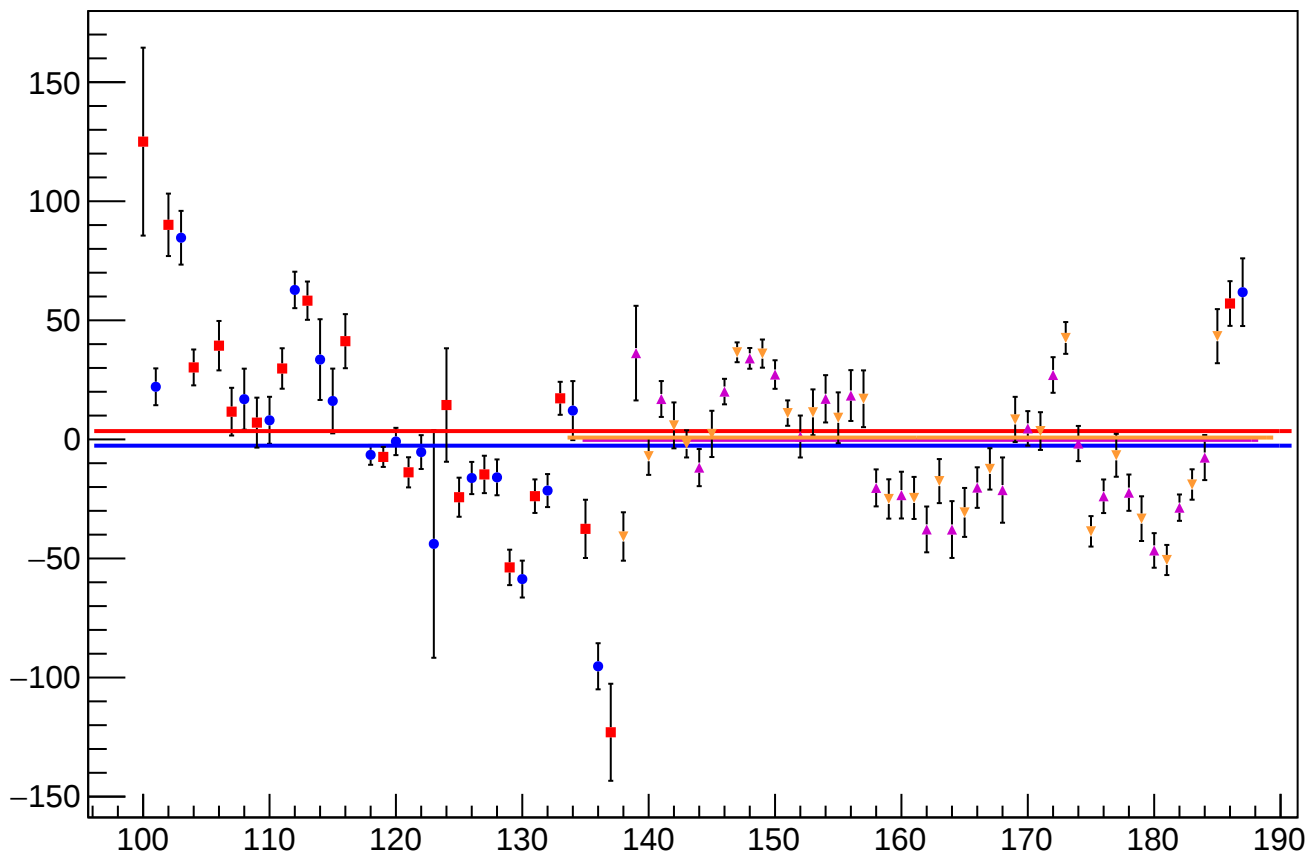
reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



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: -542.818+/-7.555 χ^2/NDF : 0.0/0
 Left In: -416.521+/-2.005 χ^2/NDF : 3917.0/22

Left: -405.762+/-1.399 χ^2/NDF : 9919.7/47
 Right: -561.269+/-5.737 χ^2/NDF : 14.1/1
 In: -424.873+/-1.955 χ^2/NDF : 4270.0/23
 Out: -404.777+/-1.891 χ^2/NDF : 6302.7/25
 All: -414.493+/-1.359 χ^2/NDF : 10627.3/49

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: 3.488 ± 1.878 χ^2/NDF : 337.3/19

Left In: -0.202 ± 1.575 χ^2/NDF : 260.8/22

Left: 0.305 ± 1.087 χ^2/NDF : 611.1/47

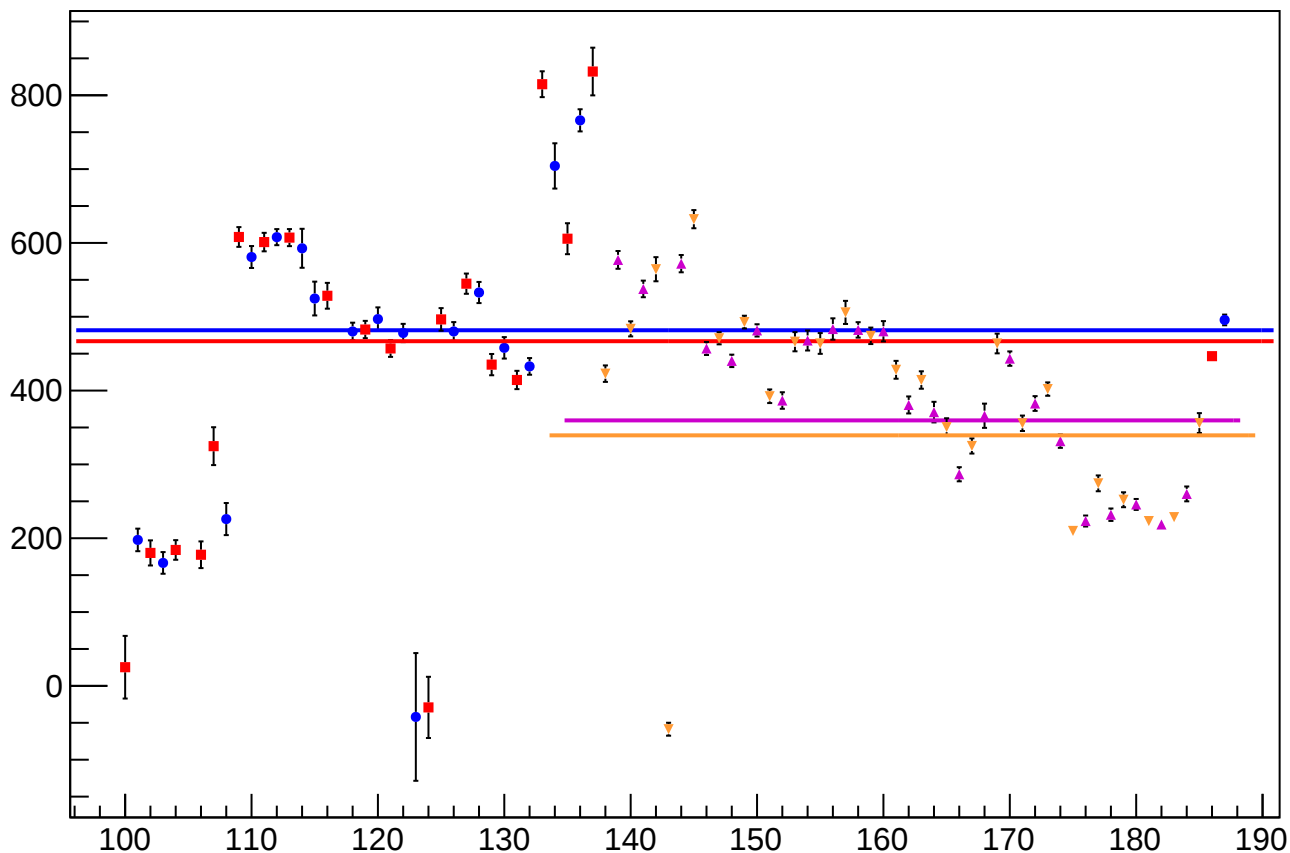
Right: 0.475 ± 1.339 χ^2/NDF : 677.8/37

In: -1.188 ± 1.215 χ^2/NDF : 597.1/40

Out: 1.829 ± 1.173 χ^2/NDF : 688.6/44

All: 0.373 ± 0.844 χ^2/NDF : 1288.9/85

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: 466.884 $\pm$ 3.052 χ^2/NDF : 2300.7/19

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

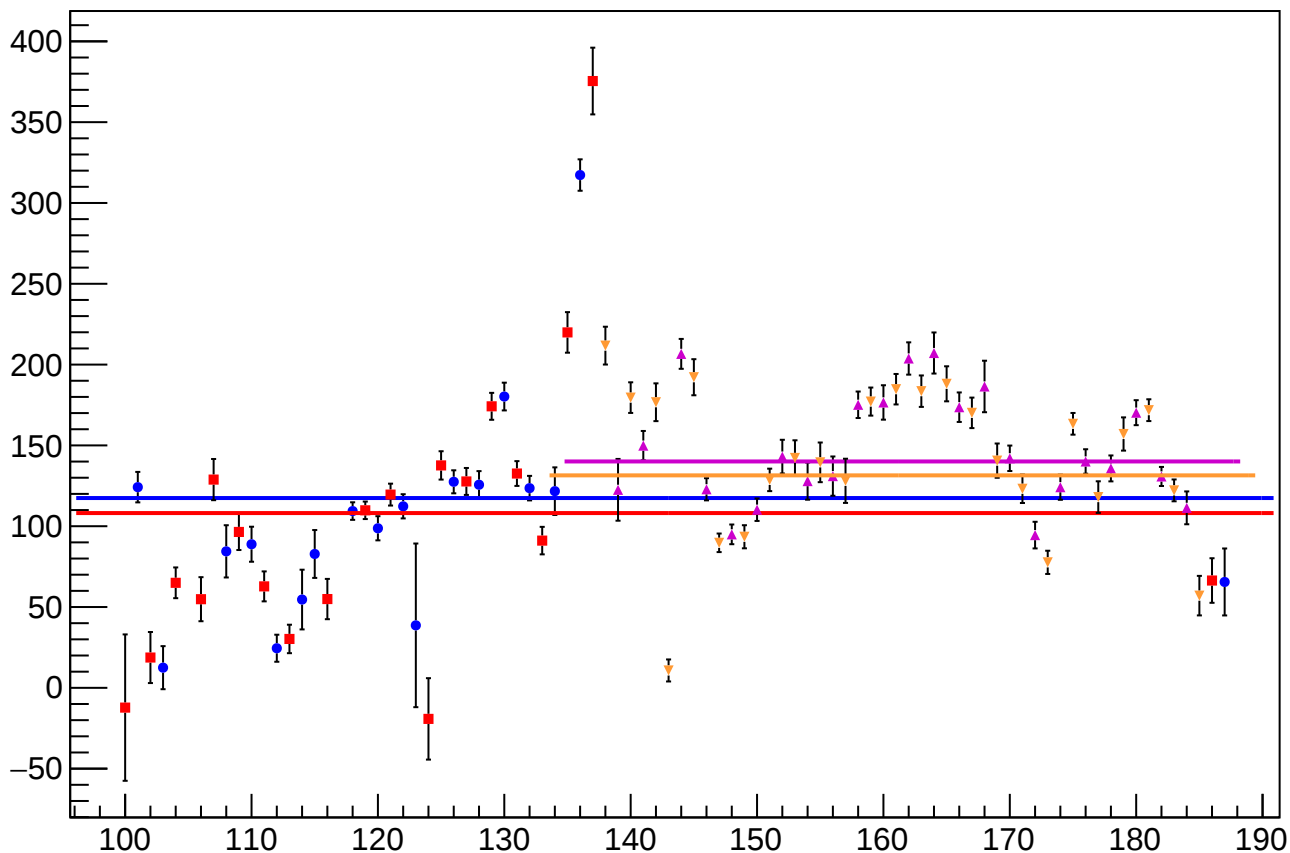
Right: 473.777 $\pm$ 2.233 χ^2/NDF : 3943.9/37

In: 392.851 $\pm$ 1.708 χ^2/NDF :6042.8/40

Out: 376.660 $\pm$ 1.651 χ^2/NDF :9038.3/44

All: 384.478 $\pm$ 1.187 χ^2/NDF : 15127.5/85

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: 108.137 $\pm$ 2.181 χ^2/NDF : 577.5/19

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

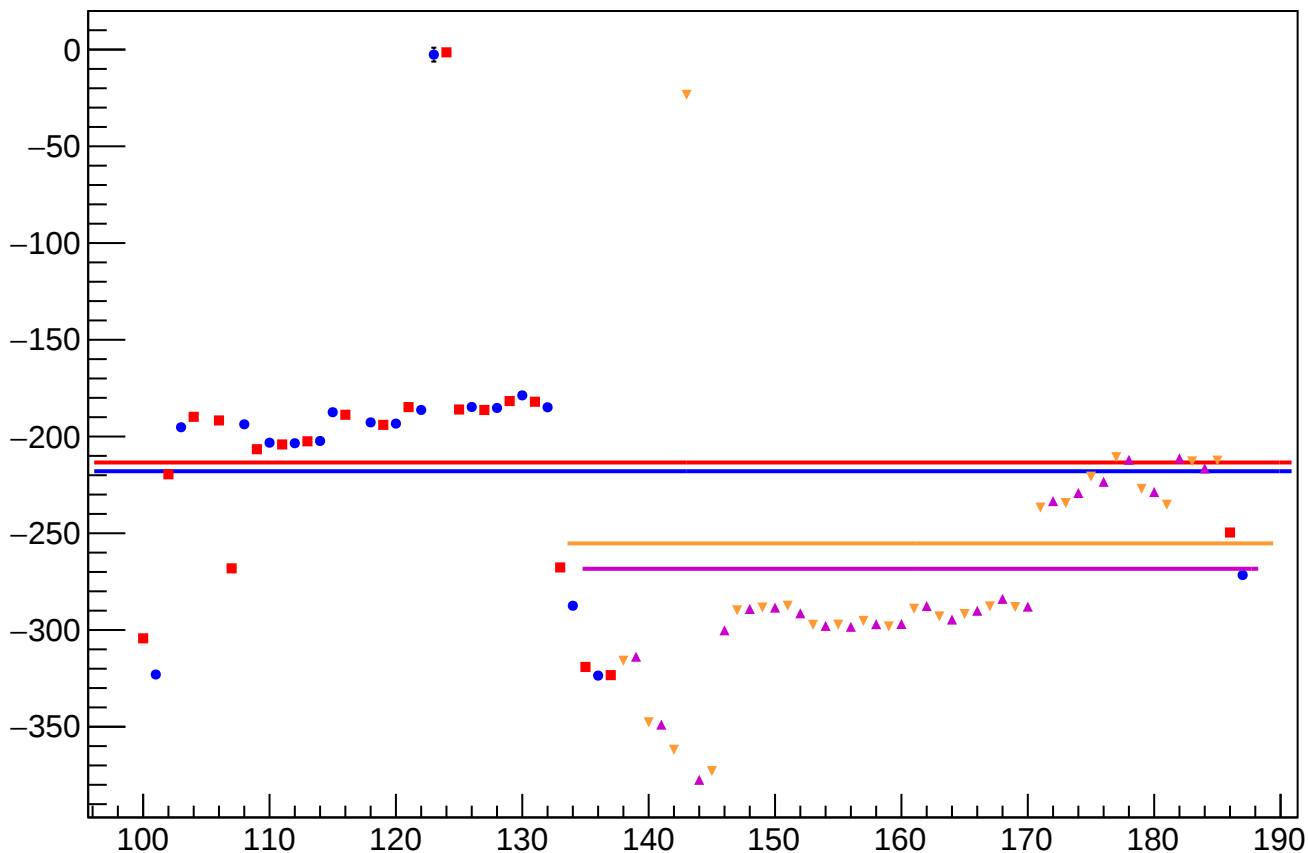
Right: 112.709 $\pm$ 1.555 χ^2/NDF : 1297.9/37

In: 131.109 $\pm$ 1.395 χ^2/NDF :1090.9/40

Out: 122.473 $\pm$ 1.354 χ^2/NDF :1457.1/44

All: 126.662 $\pm$ 0.972 χ^2/NDF : 2567.7/85

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: -213.423 ± 0.129 $\chi^2/\text{NDF}: 116918.7/19$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

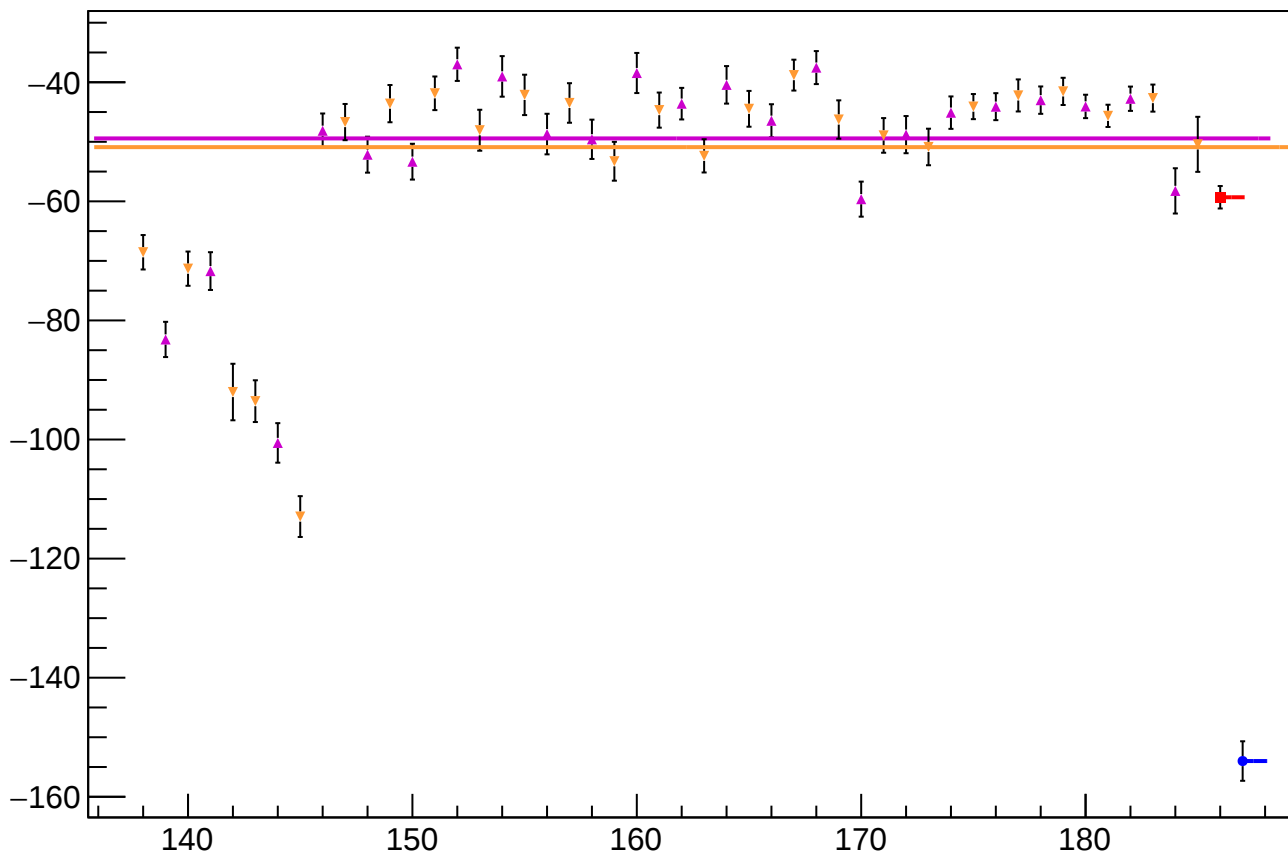
Right: -215.565 ± 0.094 $\chi^2/\text{NDF}: 266082.9/37$

In: -254.501 ± 0.071 $\chi^2/\text{NDF}: 510939.0/40$

Out: -243.234 ± 0.069 $\chi^2/\text{NDF}: 919606.9/44$

All: -248.707 ± 0.050 $\chi^2/\text{NDF}: 1443418.1/85$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -153.998 $\pm$ 3.318 χ^2 /NDF: 0.0/0

Left Out: -50.897 $\pm$ 0.573 χ^2 /NDF:761.1/24

Right Out: -59.314 $\pm$ 1.886 χ^2 /NDF: 0.0/0

Left In: -49.432 $\pm$ 0.584 χ^2 /NDF:543.4/22

Left: -50.179 $\pm$ 0.409 χ^2 /NDF: 1307.8/47

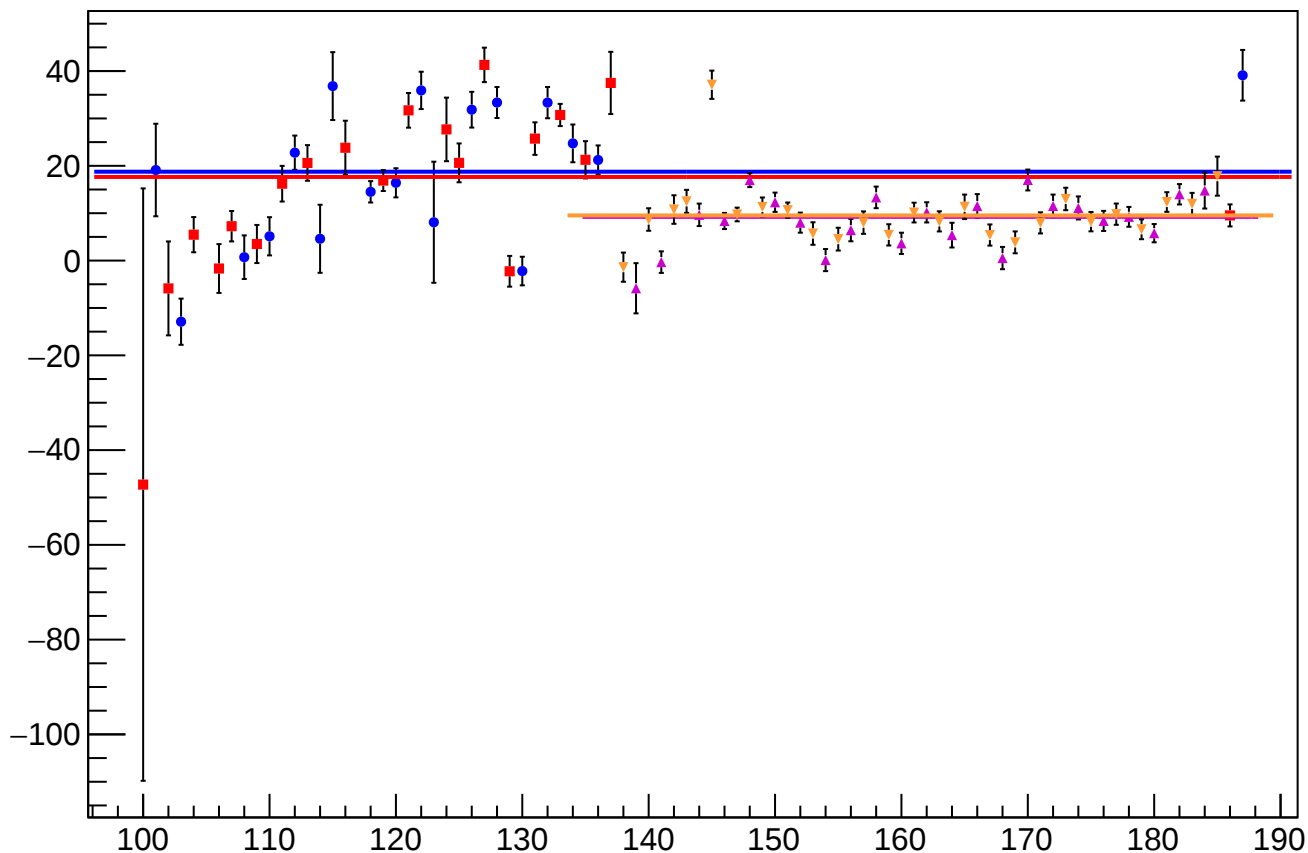
Right: -82.434 $\pm$ 1.640 χ^2 /NDF: 615.5/1

In: -52.573 $\pm$ 0.575 χ^2 /NDF:1506.7/23

Out: -51.608 $\pm$ 0.548 χ^2 /NDF:779.4/25

All: -52.067 $\pm$ 0.397 χ^2 /NDF: 2287.6/49

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.757 $\pm$ 0.905 χ^2 /NDF: 221.5/17

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 17.651 $\pm$ 0.810 χ^2 /NDF: 212.9/19

Left In: 9.231 $\pm$ 0.462 χ^2 /NDF:124.0/22

Left: 9.386 $\pm$ 0.321 χ^2 /NDF: 258.5/47

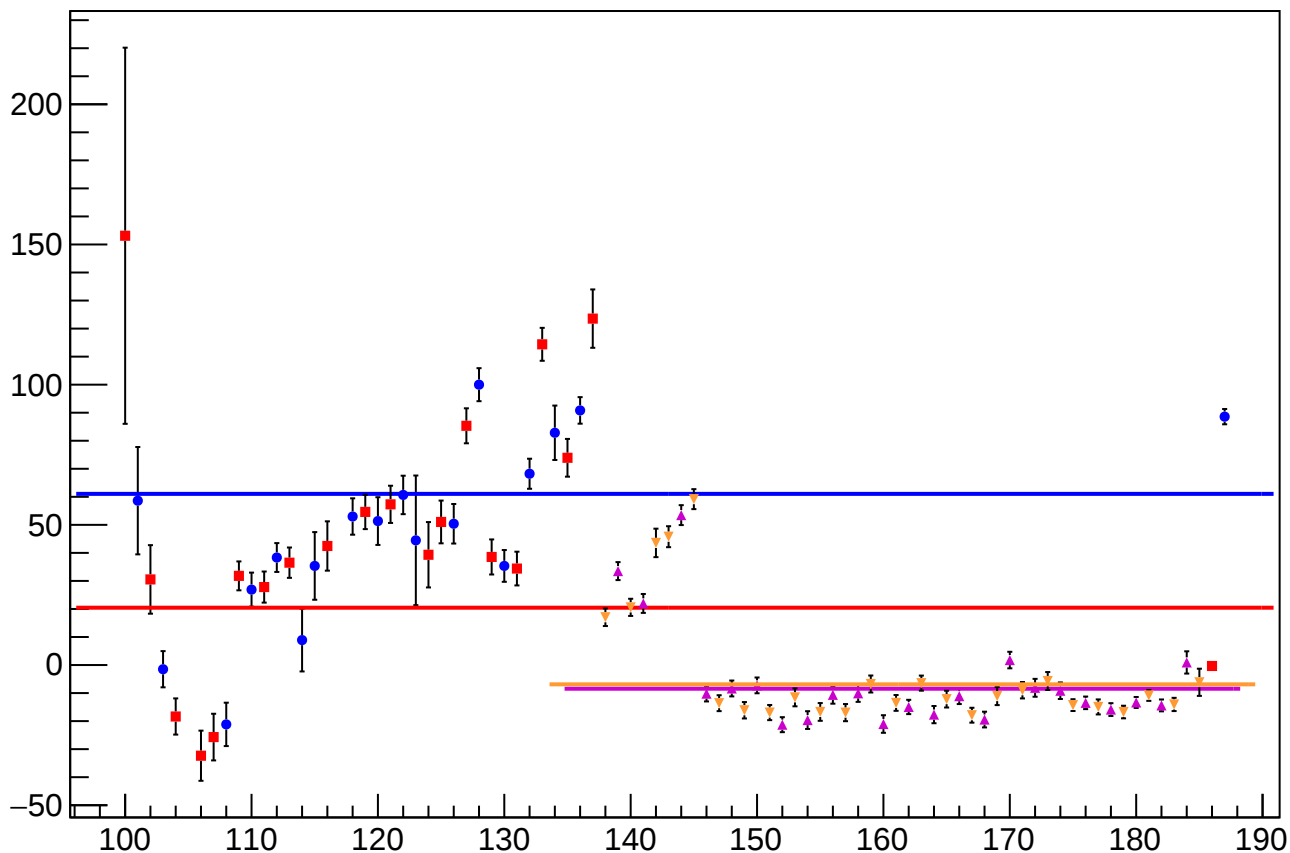
Right: 18.142 $\pm$ 0.604 χ^2 /NDF: 435.2/37

In: 11.197 $\pm$ 0.411 χ^2 /NDF:433.3/40

Out: 11.419 $\pm$ 0.391 χ^2 /NDF:424.4/44

All: 11.314 $\pm$ 0.283 χ^2 /NDF: 857.9/85

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 61.051 ± 1.431 $\chi^2/\text{NDF}: 502.5/17$

Left Out: -6.888 ± 0.571 $\chi^2/\text{NDF}: 914.2/24$

Right Out: 20.449 ± 1.100 $\chi^2/\text{NDF}: 937.1/19$

Left In: -8.451 ± 0.580 $\chi^2/\text{NDF}: 688.9/22$

Left: -7.658 ± 0.407 $\chi^2/\text{NDF}: 1606.8/47$

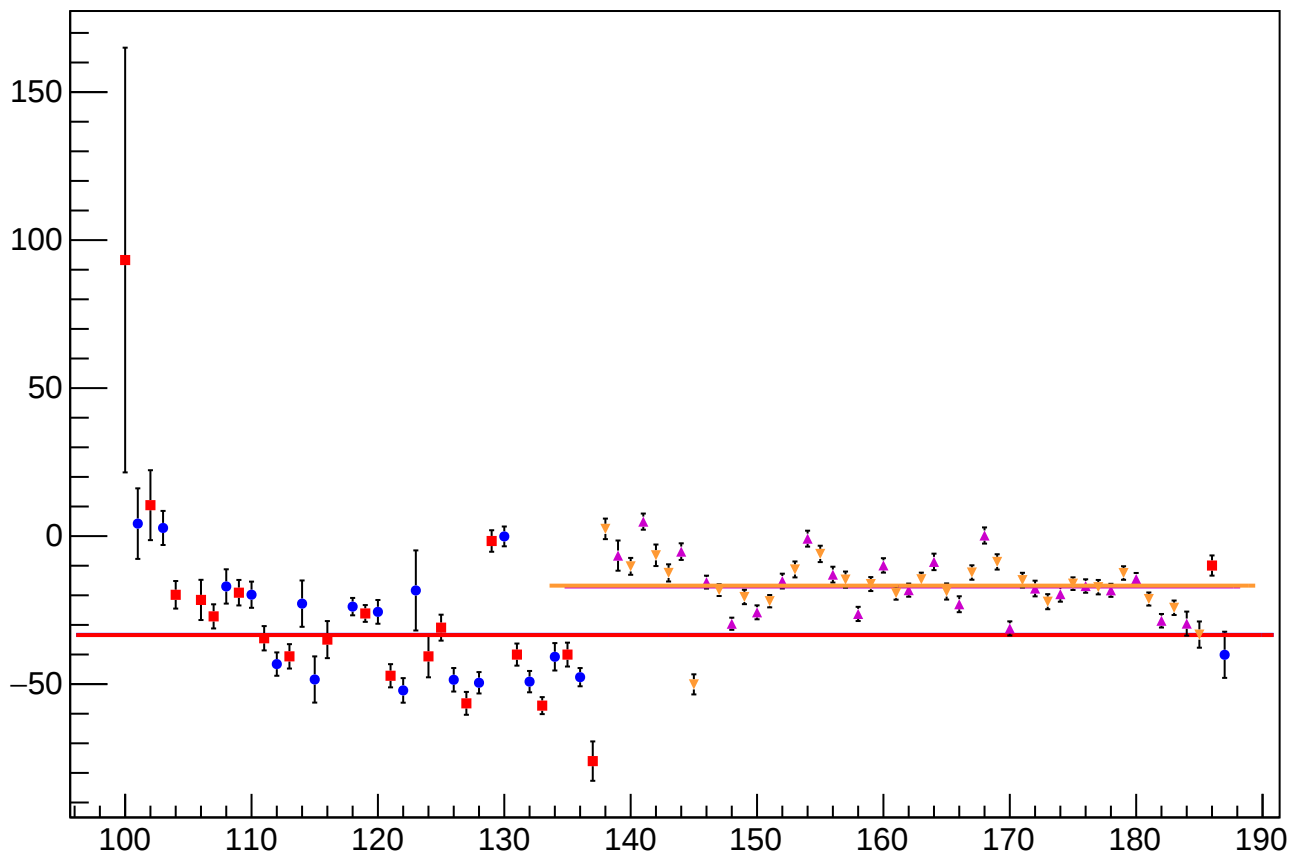
Right: 35.531 ± 0.872 $\chi^2/\text{NDF}: 1945.9/37$

In: 1.355 ± 0.537 $\chi^2/\text{NDF}: 3218.6/40$

Out: -1.084 ± 0.507 $\chi^2/\text{NDF}: 2338.0/44$

All: 0.064 ± 0.369 $\chi^2/\text{NDF}: 5567.5/85$

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: -33.432 ± 0.953 χ^2/NDF : 340.7/19

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

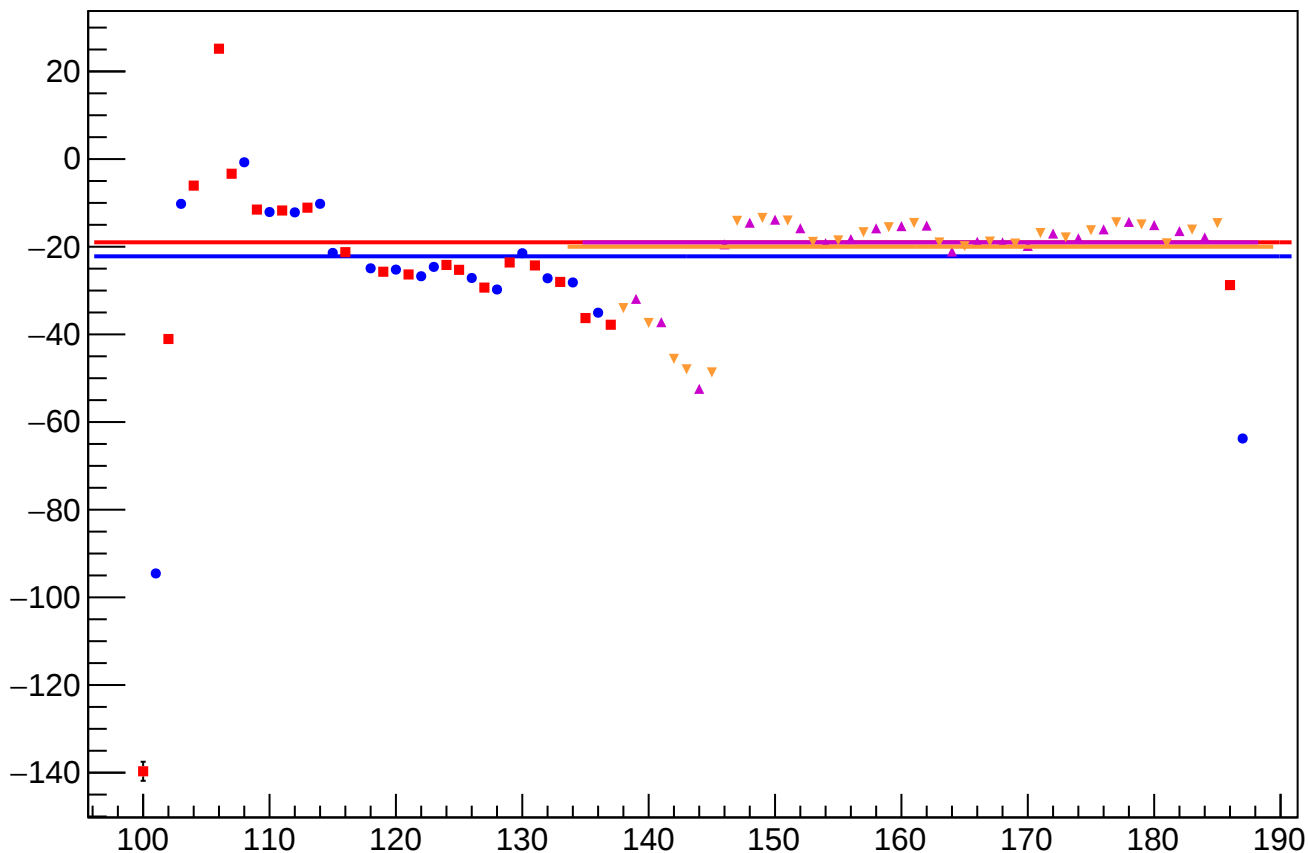
Right: -33.398 ± 0.702 χ^2/NDF : 632.8/37

In: -20.328 ± 0.466 χ^2/NDF : 818.0/40

Out: -20.410 ± 0.447 χ^2/NDF : 803.2/44

All: -20.371 ± 0.323 χ^2/NDF : 1621.2/85

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -22.189 ± 0.058 $\chi^2/\text{NDF}: 58054.3/17$

Left Out: -20.006 ± 0.023 $\chi^2/\text{NDF}: 145623.8/24$

Right Out: -18.991 ± 0.056 $\chi^2/\text{NDF}: 82134.4/19$

Left In: -19.007 ± 0.024 $\chi^2/\text{NDF}: 90873.3/22$

Left: -19.514 ± 0.017 $\chi^2/\text{NDF}: 237400.2/47$

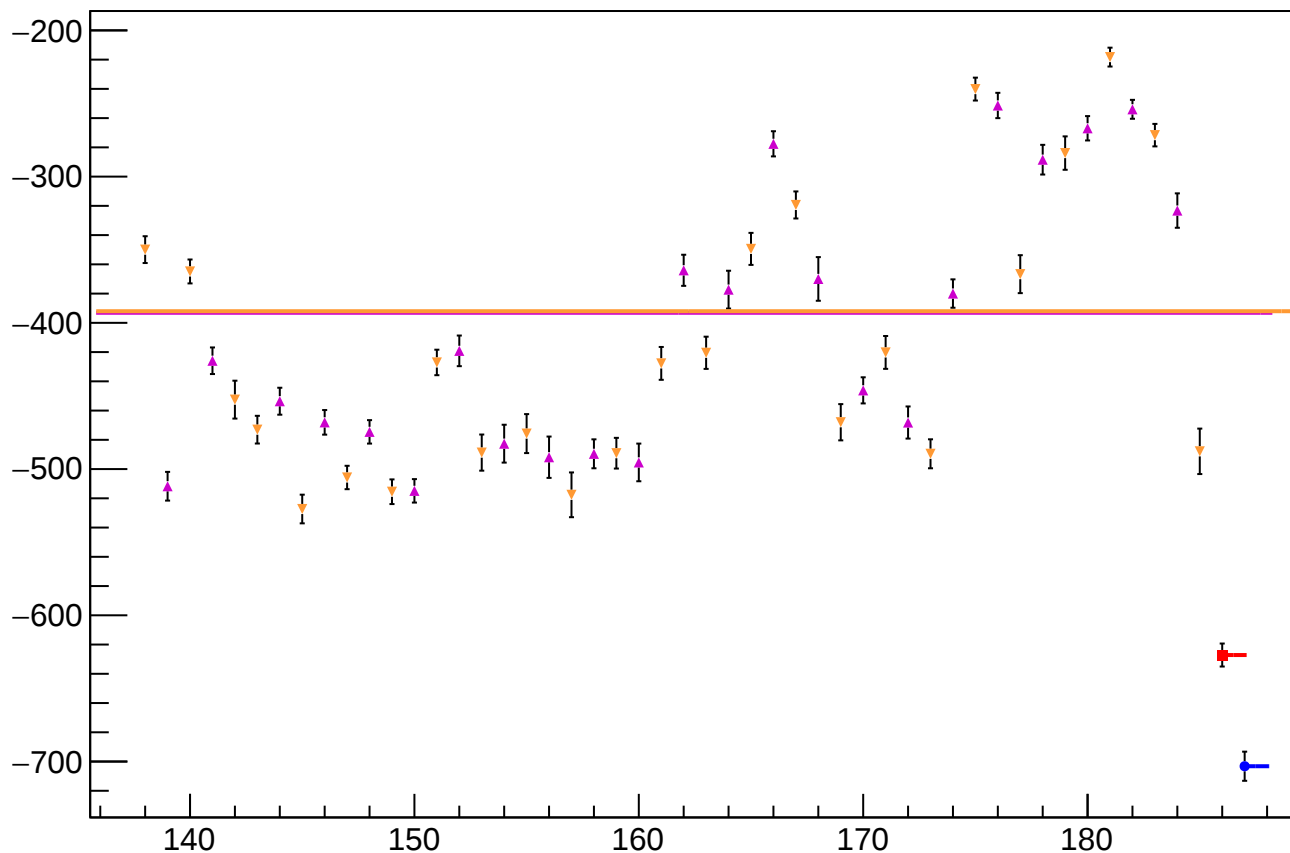
Right: -20.519 ± 0.040 $\chi^2/\text{NDF}: 141751.5/37$

In: -19.456 ± 0.022 $\chi^2/\text{NDF}: 151472.4/40$

Out: -19.855 ± 0.022 $\chi^2/\text{NDF}: 228038.8/44$

All: -19.660 ± 0.015 $\chi^2/\text{NDF}: 379680.4/85$

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: -627.170 ± 7.862 $\chi^2/\text{NDF}: 0.0/0$

Left In: -393.113 ± 2.006 $\chi^2/\text{NDF}: 2253.3/22$

Left: -392.573 ± 1.404 $\chi^2/\text{NDF}: 4970.6/47$

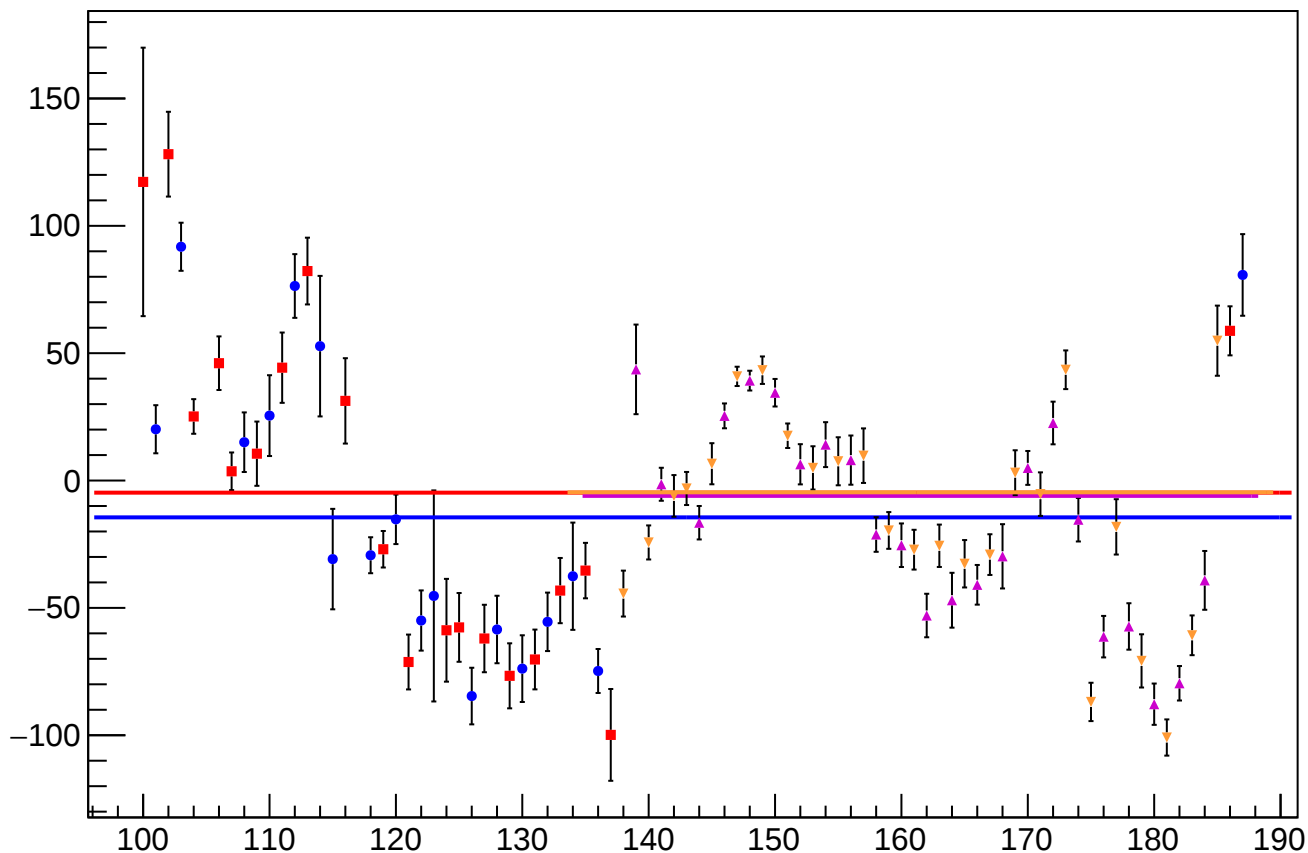
Right: -656.346 ± 6.172 $\chi^2/\text{NDF}: 35.9/1$

In: -405.186 ± 1.966 $\chi^2/\text{NDF}: 3184.1/23$

Out: -405.898 ± 1.908 $\chi^2/\text{NDF}: 3558.8/25$

All: -405.553 ± 1.369 $\chi^2/\text{NDF}: 6742.9/49$

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: -4.757 ± 2.520 $\chi^2/\text{NDF}: 416.0/19$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

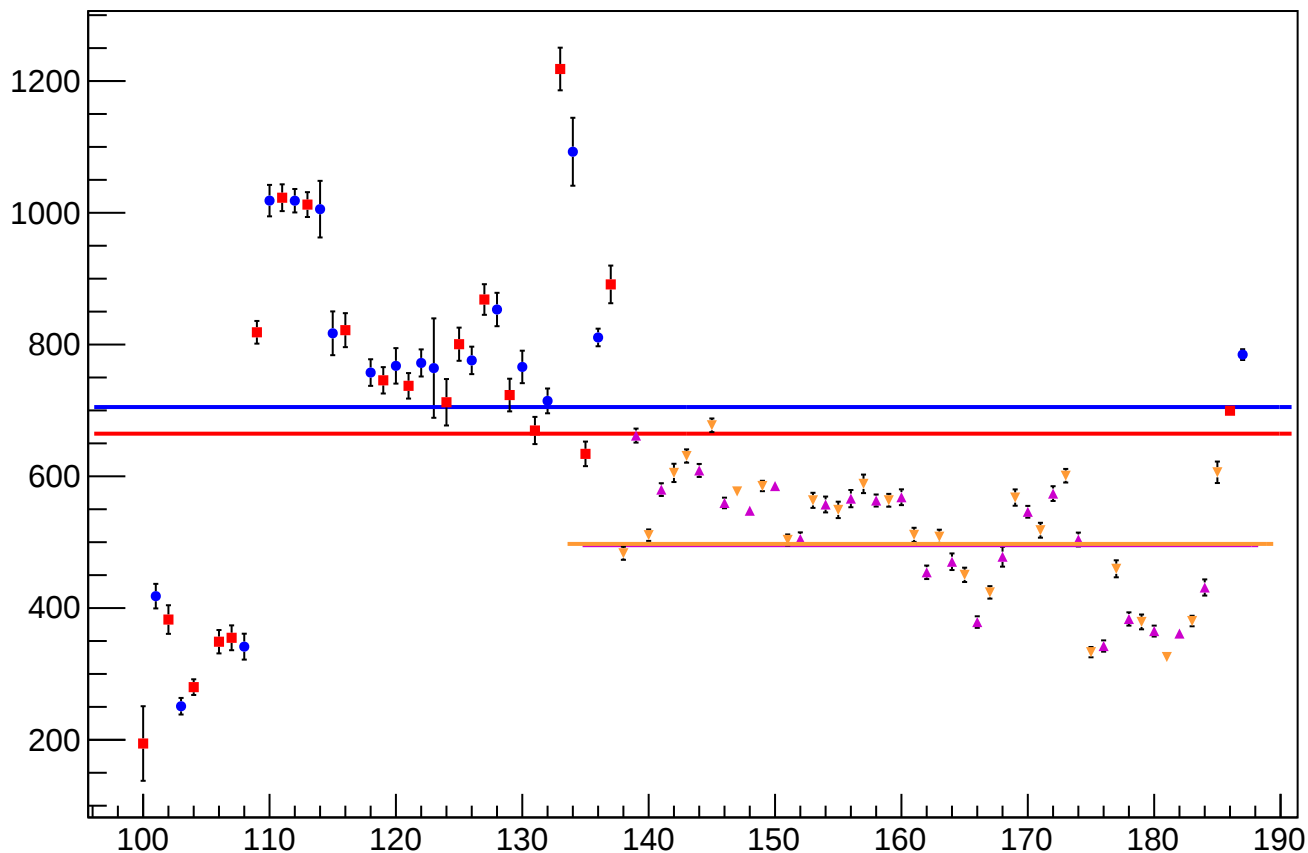
Right: -9.130 ± 1.868 $\chi^2/\text{NDF}: 821.1/37$

In: -7.951 ± 1.331 $\chi^2/\text{NDF}: 1059.6/40$

Out: -4.658 ± 1.265 $\chi^2/\text{NDF}: 1188.9/44$

All: -6.220 ± 0.917 $\chi^2/\text{NDF}: 2251.7/85$

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: 664.727 $\pm$ 3.794 χ^2 /NDF: 3168.9/19

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

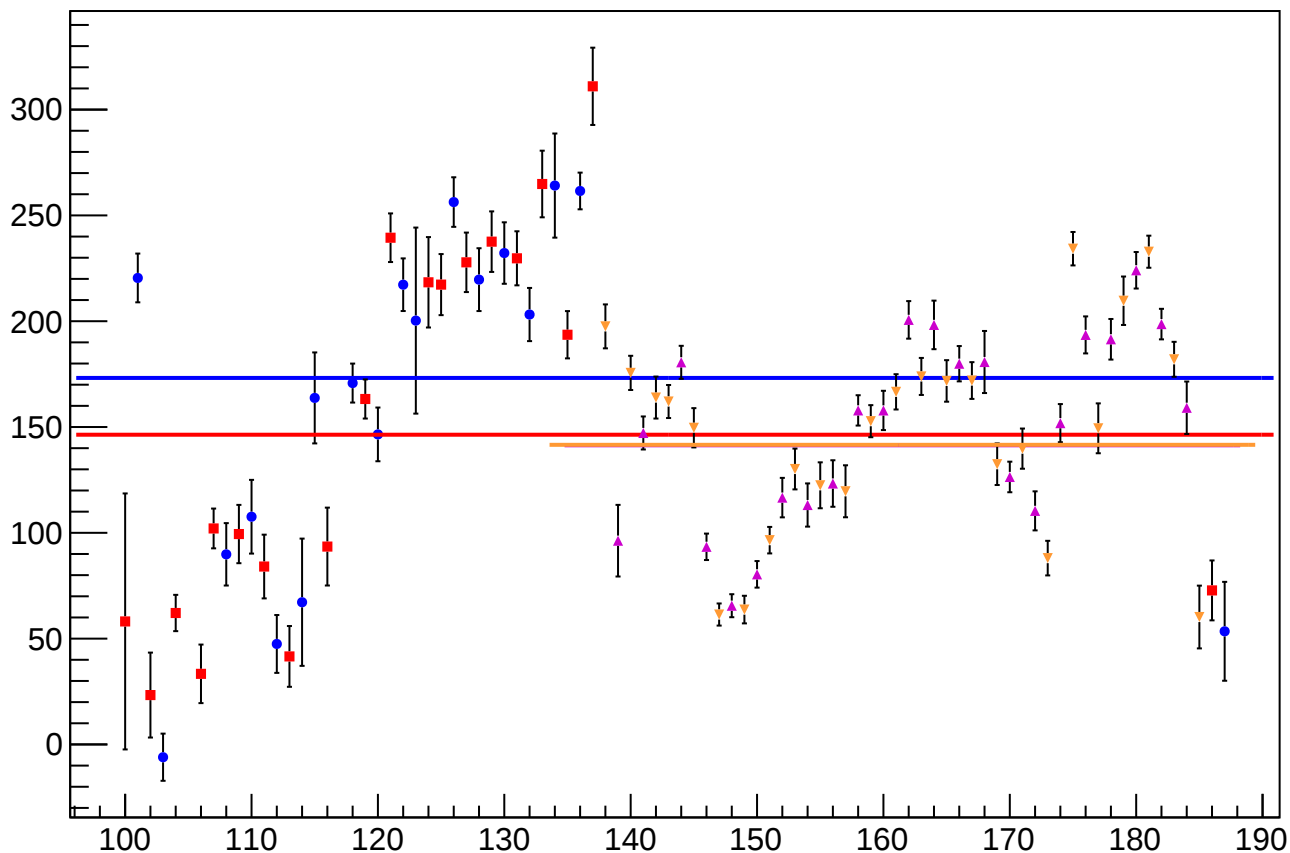
Right: 682.351 $\pm$ 2.849 χ^2 /NDF: 5930.0/37

In: 532.311 $\pm$ 1.809 χ^2 /NDF:6912.7/40

Out: 532.797 $\pm$ 1.746 χ^2 /NDF:7317.1/44

All: 532.563 $\pm$ 1.256 χ^2 /NDF: 14229.8/85

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: 146.360 $\pm$ 2.978 χ^2 /NDF: 719.5/19

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

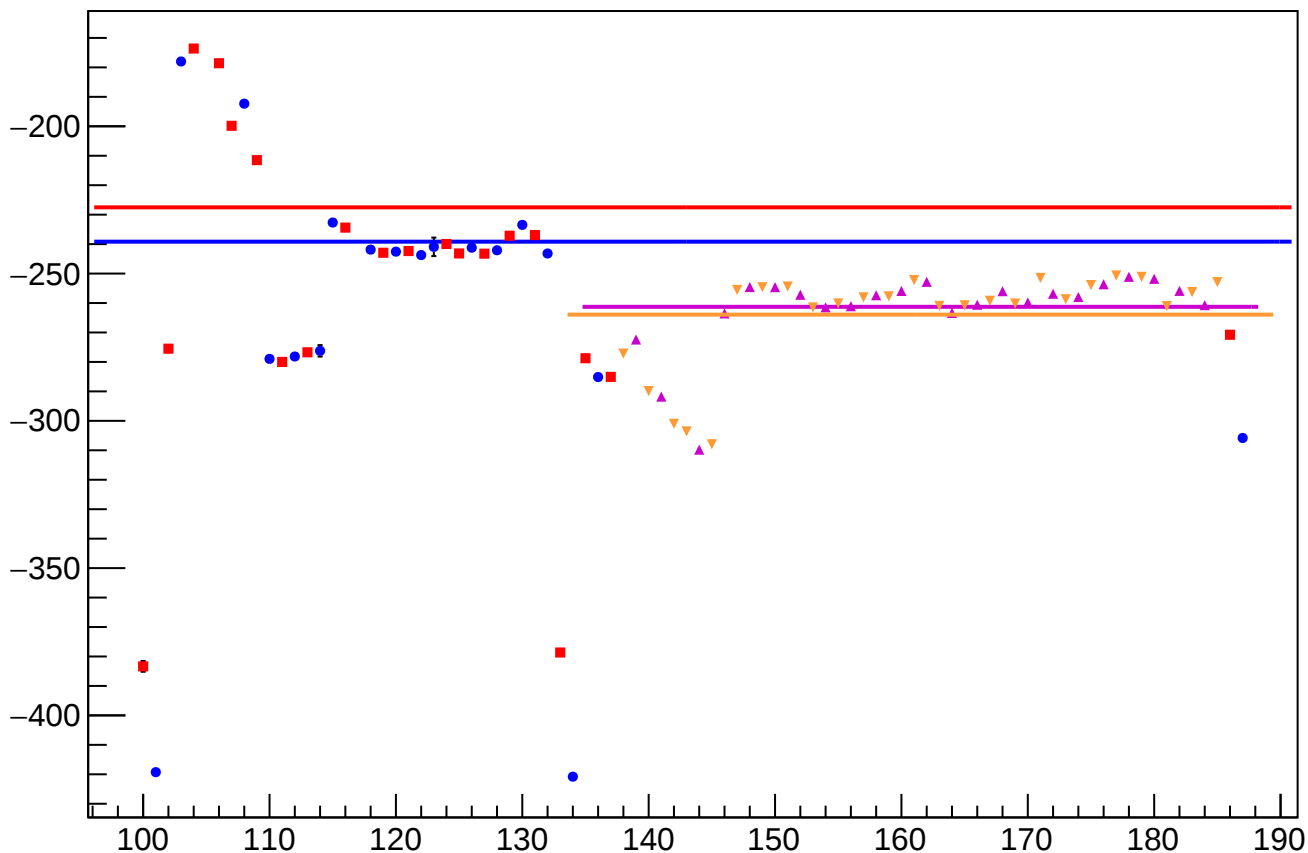
Right: 158.755 $\pm$ 2.185 χ^2 /NDF: 1419.2/37

In: 148.626 $\pm$ 1.536 χ^2 /NDF:1479.1/40

Out: 142.760 $\pm$ 1.475 χ^2 /NDF:1681.0/44

All: 145.575 $\pm$ 1.064 χ^2 /NDF: 3167.8/85

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: -227.518+/-0.150 χ^2/NDF : 104373.9/19

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

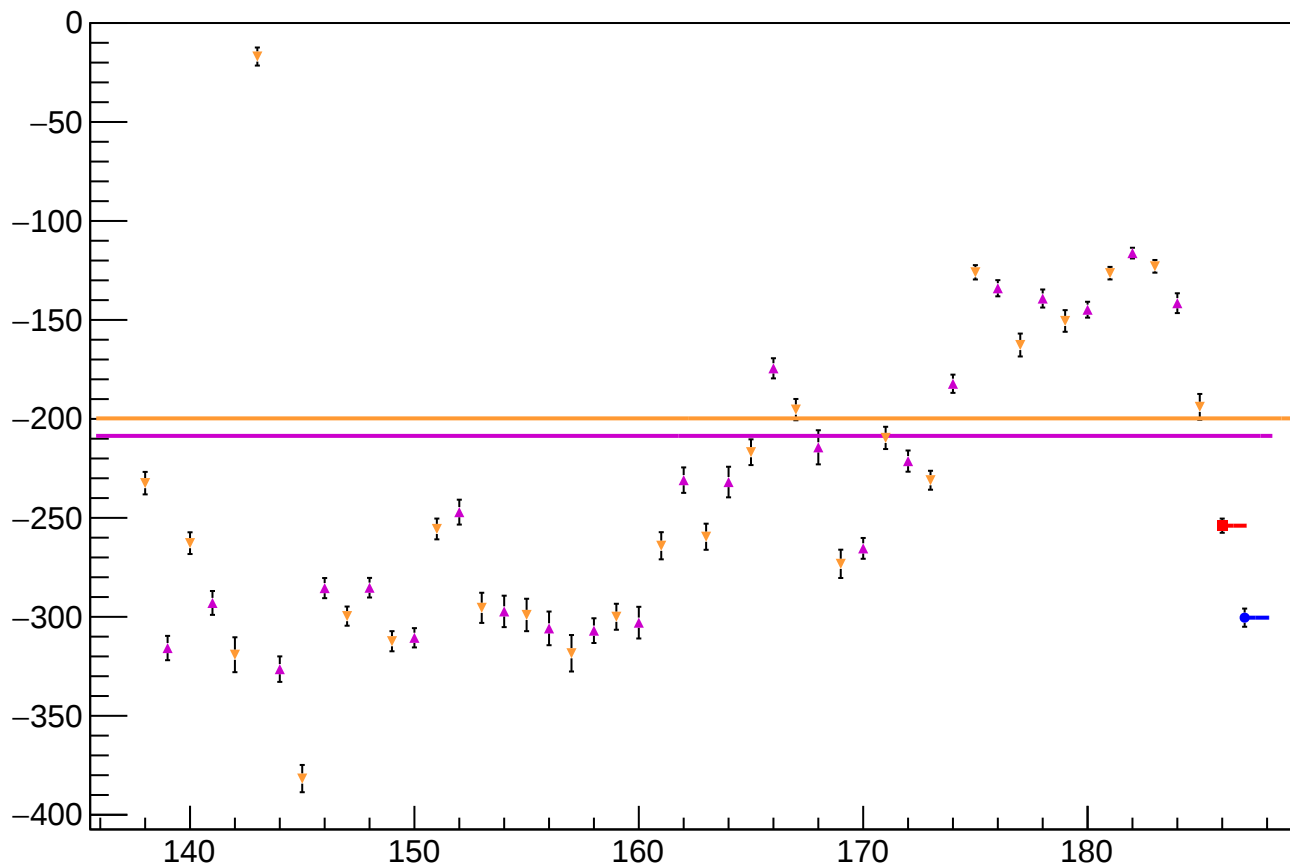
Right: -232.977+/-0.109 χ^2/NDF : 276867.2/37

In: -256.662+/-0.073 χ^2/NDF : 208222.3/40

Out: -255.654+/-0.071 χ^2/NDF : 189197.8/44

All: -256.148+/-0.051 χ^2/NDF : 397517.6/85

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: -253.947 ± 3.589 χ^2/NDF : 0.0/0

Left In: -208.579 ± 1.082 χ^2/NDF : 4805.1/22

Left: -204.073 ± 0.758 χ^2/NDF : 11200.6/47

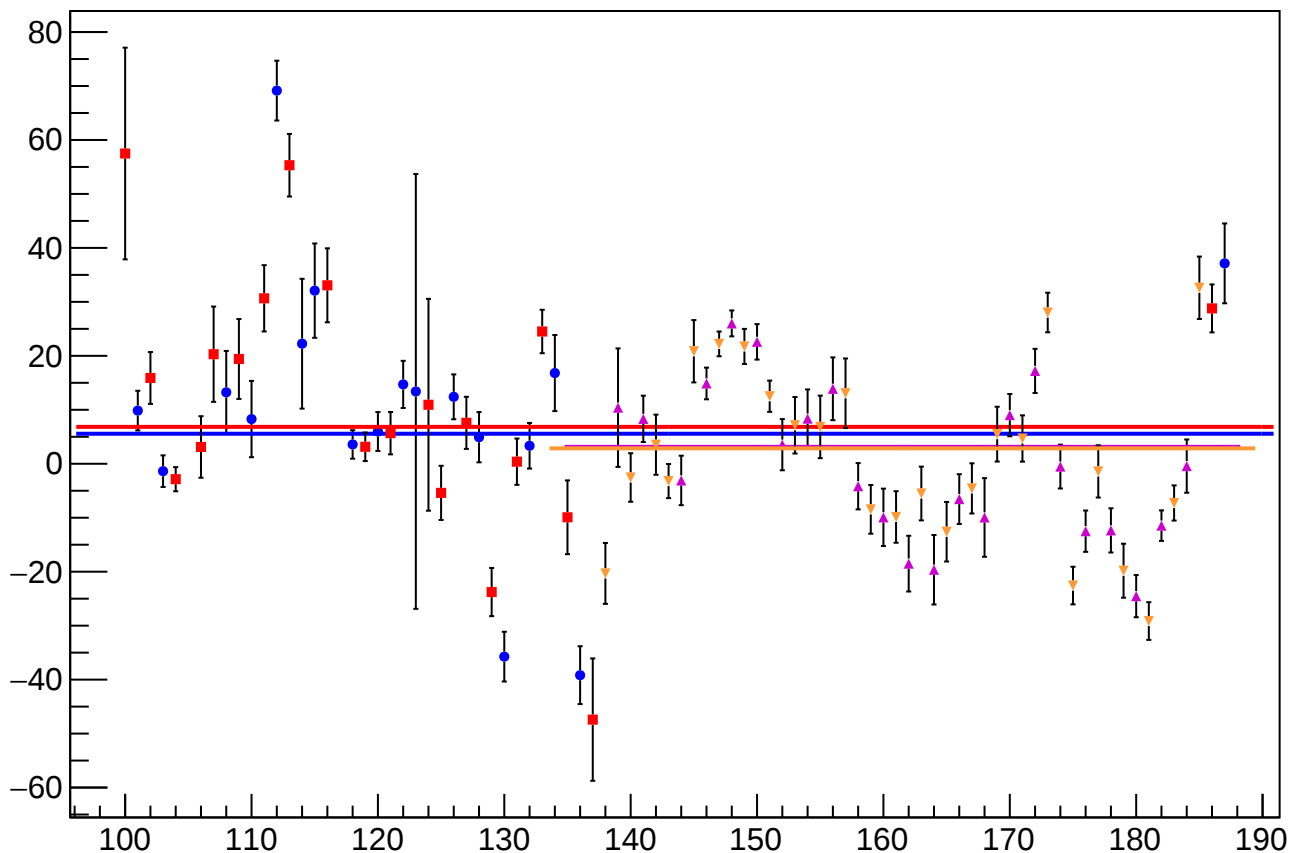
Right: -271.573 ± 2.828 χ^2/NDF : 63.6/1

In: -213.413 ± 1.053 χ^2/NDF : 5184.1/23

Out: -204.098 ± 1.018 χ^2/NDF : 6571.3/25

All: -208.595 ± 0.732 χ^2/NDF : 11795.8/49

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: 6.834 $\pm$ 1.040 χ^2 /NDF: 264.2/19

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

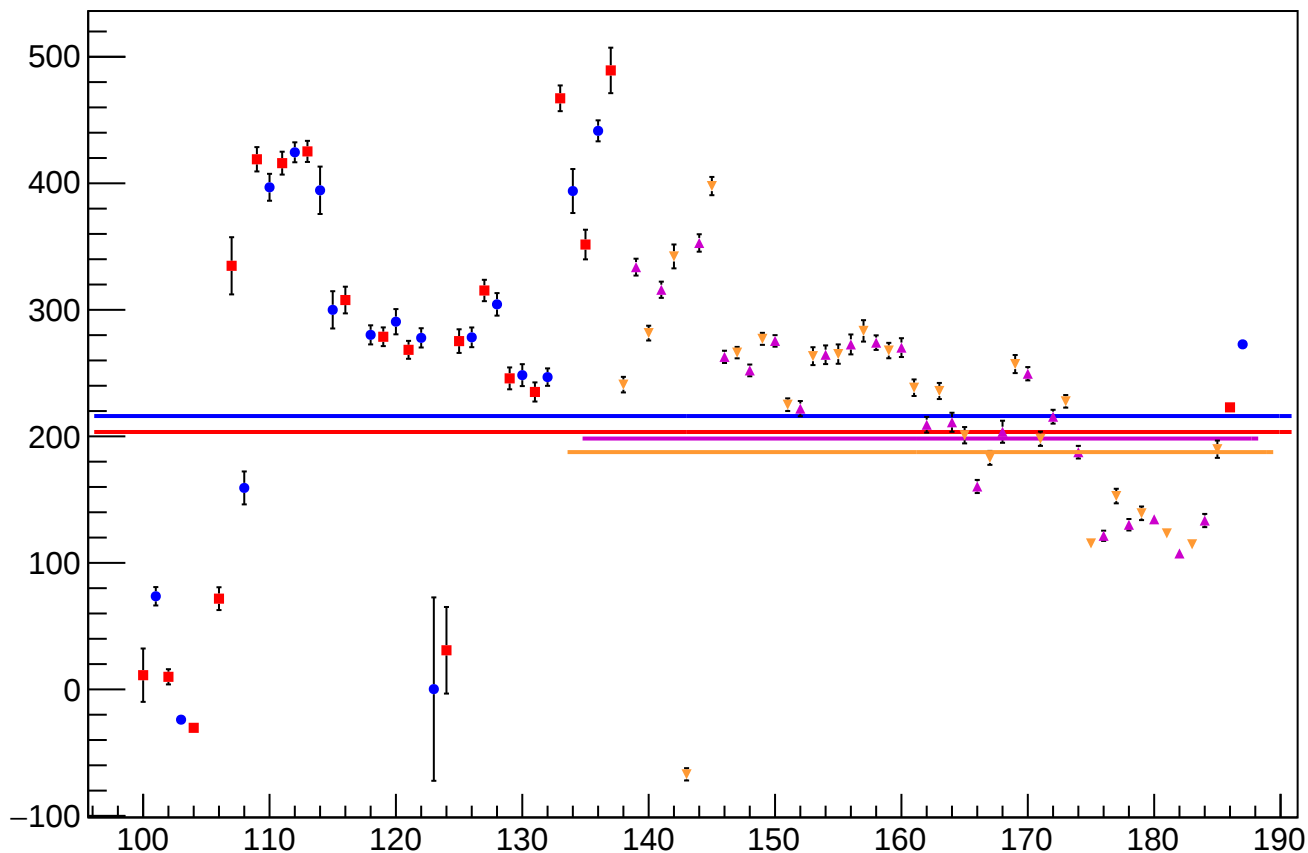
Right: 6.231 $\pm$ 0.754 χ^2 /NDF: 594.4/37

In: 4.057 $\pm$ 0.675 χ^2 /NDF: 652.4/40

Out: 4.379 $\pm$ 0.644 χ^2 /NDF: 693.0/44

All: 4.225 $\pm$ 0.466 χ^2 /NDF: 1345.5/85

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: 203.450 $\pm$ 1.599 χ^2 /NDF: 8309.7/19

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

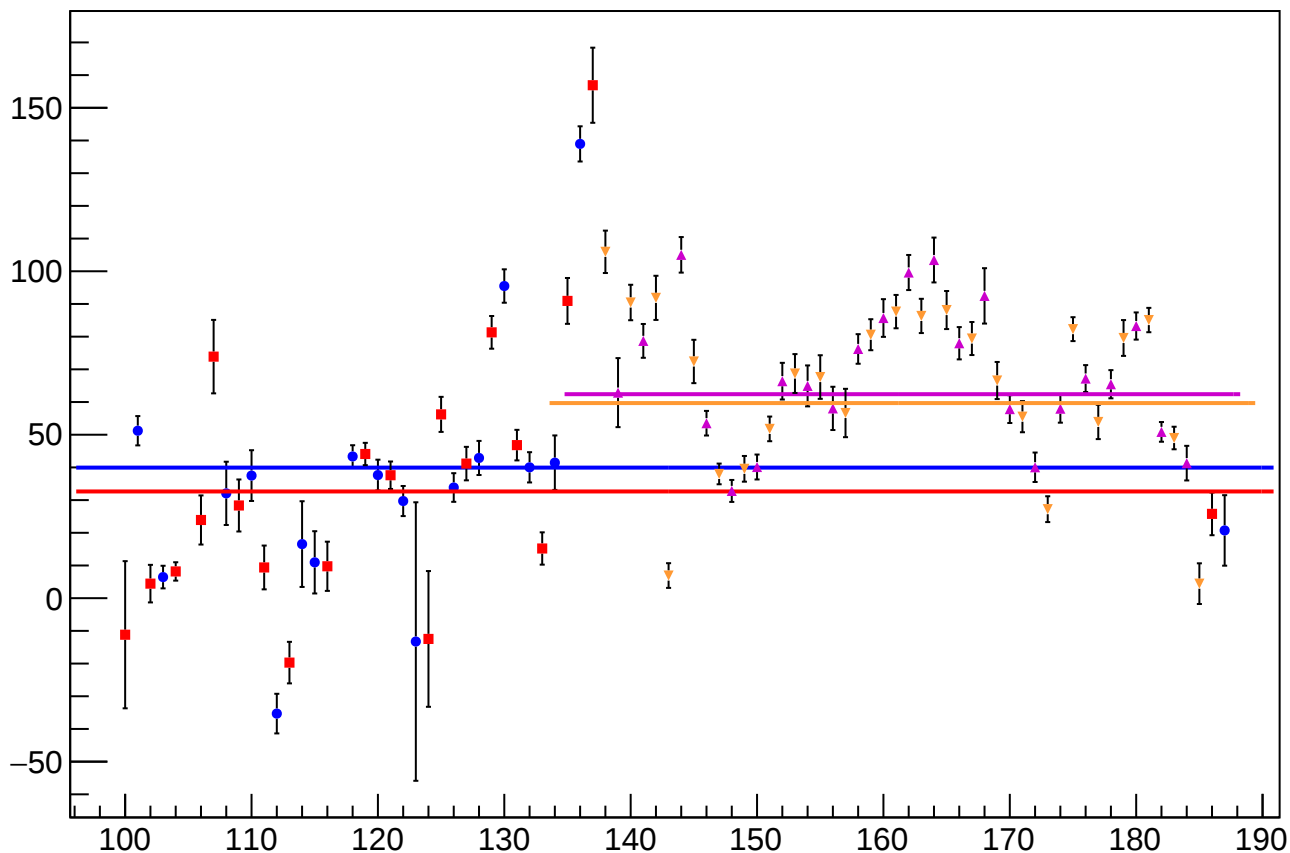
Right: 209.160 $\pm$ 1.183 χ^2 /NDF: 15343.7/37

In: 203.155 $\pm$ 0.921 χ^2 /NDF: 11595.9/40

Out: 192.451 $\pm$ 0.887 χ^2 /NDF: 15460.1/44

All: 197.600 $\pm$ 0.639 χ^2 /NDF: 27126.0/85

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: 32.645 ± 1.230 $\chi^2/\text{NDF}: 550.9/19$

Left In: 62.400 ± 0.974 $\chi^2/\text{NDF}: 406.3/22$

Left: 60.993 ± 0.677 $\chi^2/\text{NDF}: 1167.9/47$

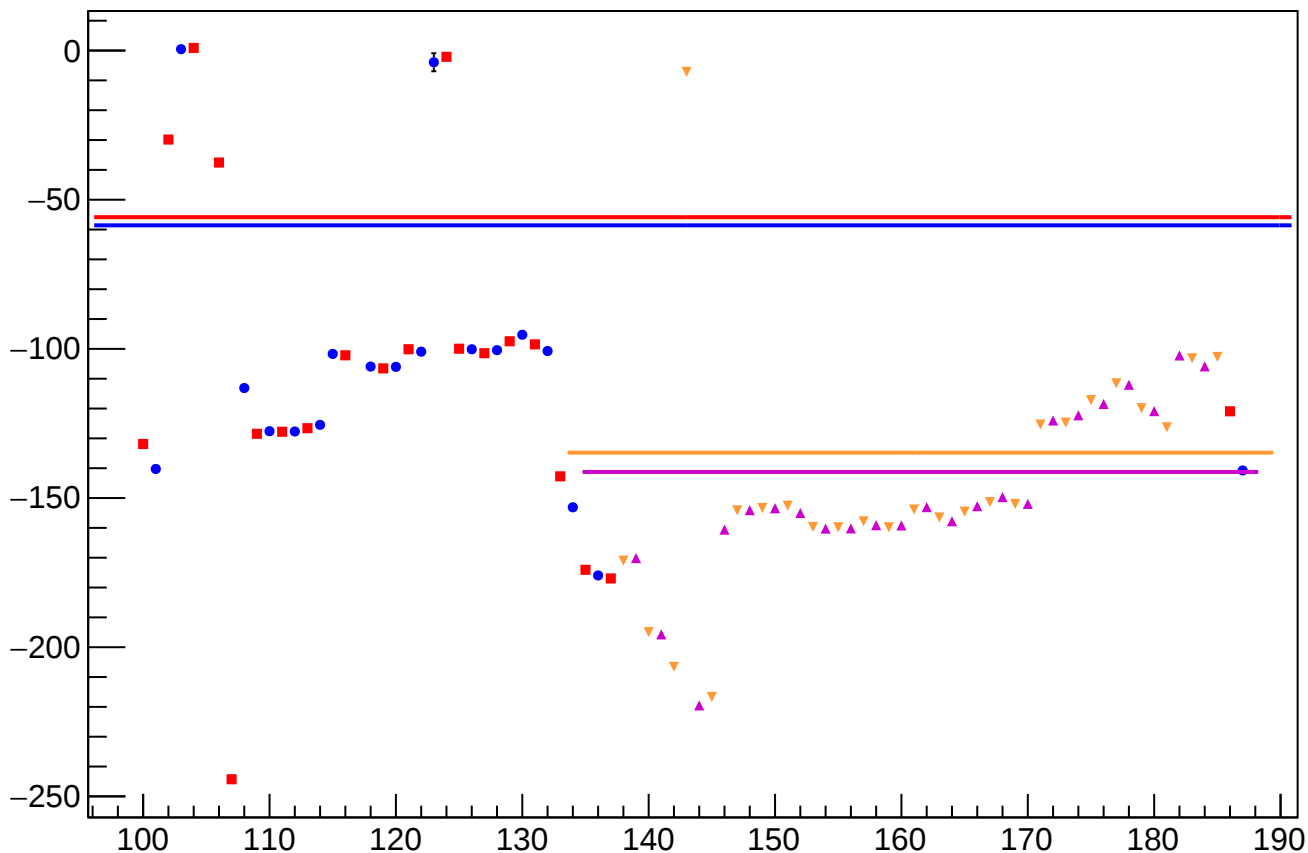
Right: 36.157 ± 0.886 $\chi^2/\text{NDF}: 1305.0/37$

In: 54.135 ± 0.774 $\chi^2/\text{NDF}: 1339.0/40$

Out: 49.704 ± 0.747 $\chi^2/\text{NDF}: 1613.4/44$

All: 51.840 ± 0.538 $\chi^2/\text{NDF}: 2969.4/85$

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -58.591 $\pm$ 0.062 χ^2 /NDF: 1118658.9/17

Left Out: -134.780 $\pm$ 0.045 χ^2 /NDF: 804747.3/24

Right Out: -55.862 $\pm$ 0.060 χ^2 /NDF: 1019833.2/19

Left In: -141.255 $\pm$ 0.045 χ^2 /NDF: 347229.8/22

Left: -137.961 $\pm$ 0.032 χ^2 /NDF: 1162377.9/47

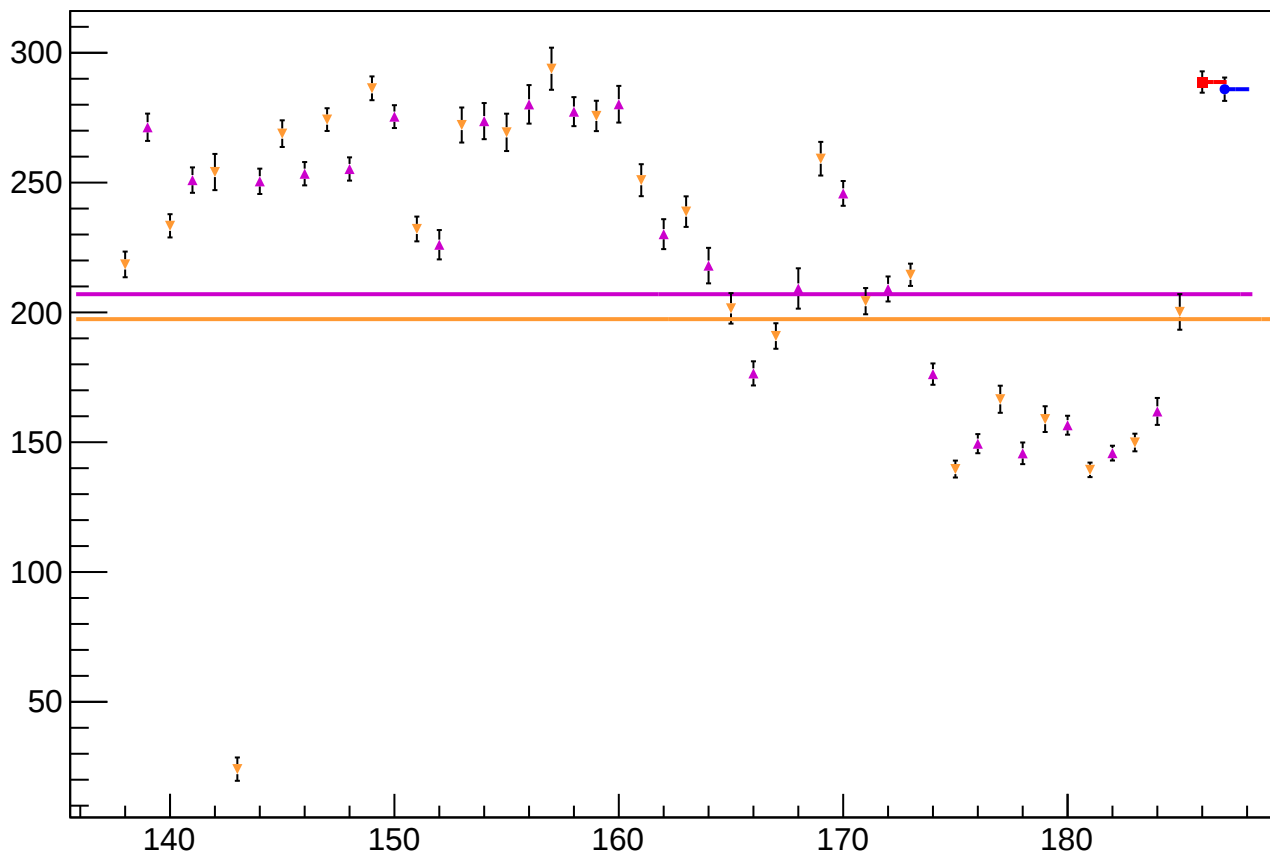
Right: -57.187 $\pm$ 0.043 χ^2 /NDF: 2139503.8/37

In: -112.201 $\pm$ 0.036 χ^2 /NDF: 2636777.4/40

Out: -106.635 $\pm$ 0.036 χ^2 /NDF: 2946080.2/44

All: -109.358 $\pm$ 0.026 χ^2 /NDF: 5594750.4/85

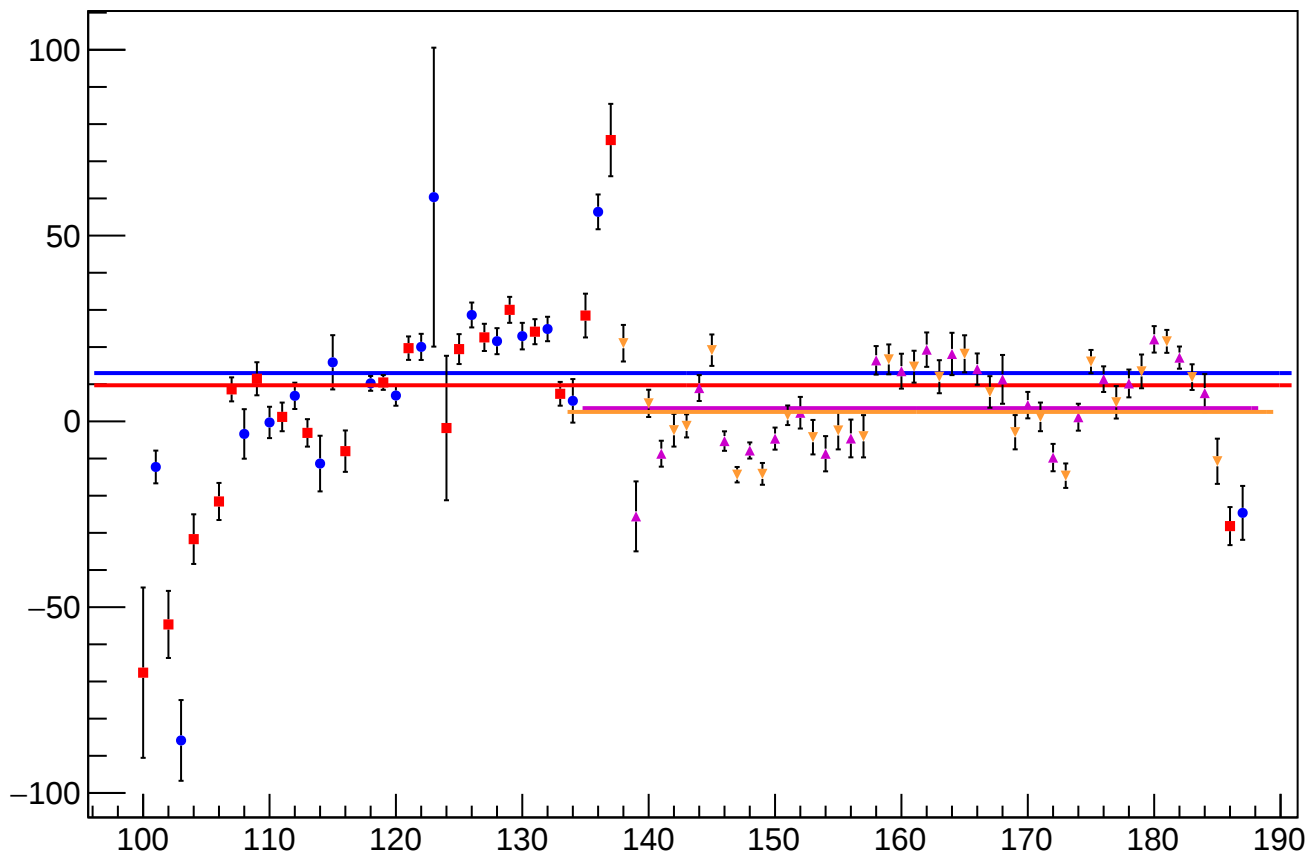
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



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: 288.742 $\pm$ 4.111 χ^2 /NDF: 0.0/0
 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: 287.481 $\pm$ 3.035 χ^2 /NDF: 0.2/1
 In: 210.664 $\pm$ 0.967 χ^2 /NDF:2905.4/23
 Out: 202.158 $\pm$ 0.938 χ^2 /NDF:4852.2/25
 All: 206.279 $\pm$ 0.673 χ^2 /NDF: 7797.4/49

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.997 ± 0.930 $\chi^2/\text{NDF}: 320.6/17$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 9.718 ± 0.900 $\chi^2/\text{NDF}: 359.3/19$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

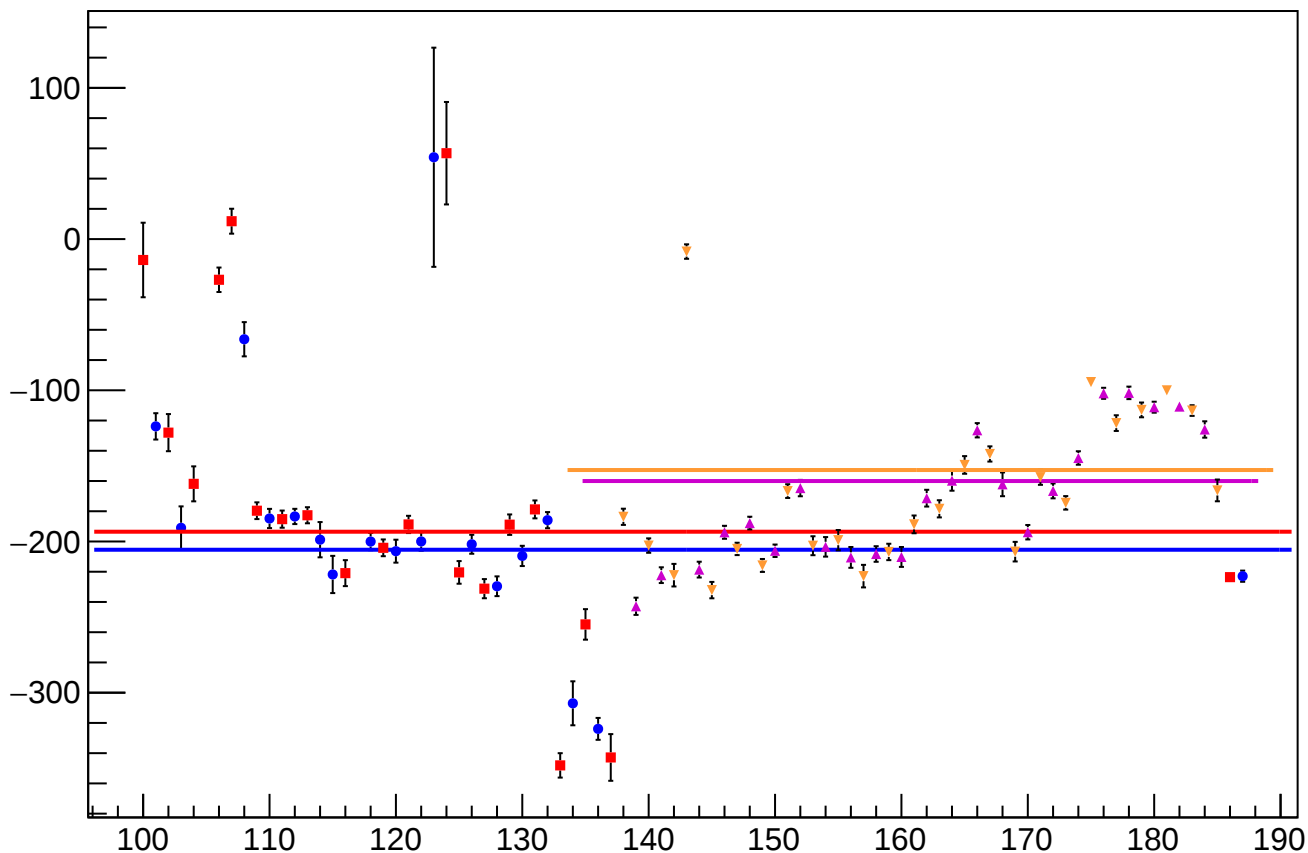
Right: 11.303 ± 0.647 $\chi^2/\text{NDF}: 686.3/37$

In: 7.420 ± 0.595 $\chi^2/\text{NDF}: 573.4/40$

Out: 5.442 ± 0.572 $\chi^2/\text{NDF}: 672.6/44$

All: 6.392 ± 0.412 $\chi^2/\text{NDF}: 1251.7/85$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -205.462 ± 1.618 $\chi^2/\text{NDF}: 652.6/17$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -193.536 ± 1.512 $\chi^2/\text{NDF}: 1851.1/19$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

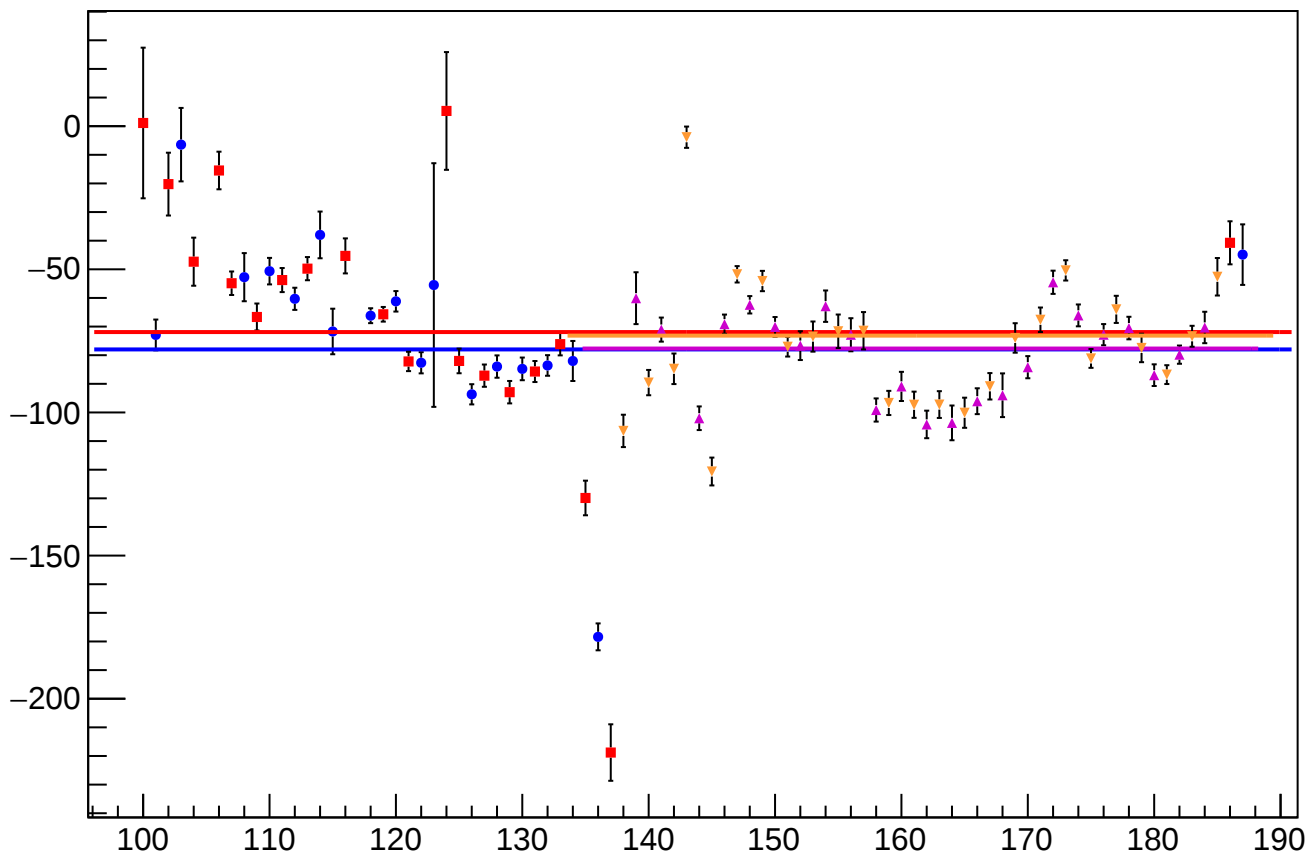
Right: -199.094 ± 1.105 $\chi^2/\text{NDF}: 2532.7/37$

In: -172.375 ± 0.844 $\chi^2/\text{NDF}: 3251.2/40$

Out: -164.583 ± 0.815 $\chi^2/\text{NDF}: 5445.7/44$

All: -168.342 ± 0.586 $\chi^2/\text{NDF}: 8741.1/85$

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: -71.919 ± 1.044 χ^2/NDF : 623.0/19

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

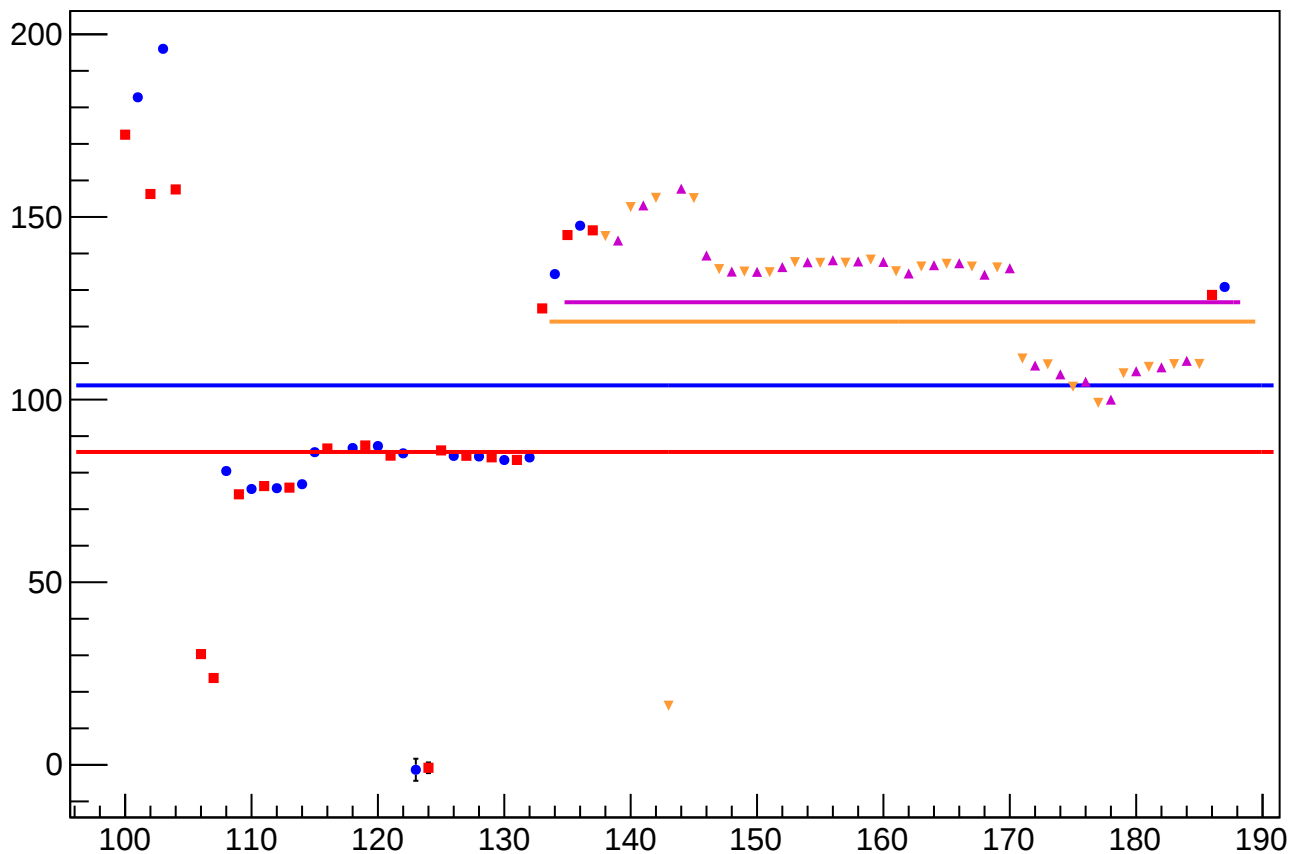
Right: -74.853 ± 0.750 χ^2/NDF : 1299.1/37

In: -77.802 ± 0.683 χ^2/NDF : 908.1/40

Out: -72.667 ± 0.660 χ^2/NDF : 1412.4/44

All: -75.145 ± 0.474 χ^2/NDF : 2349.8/85

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 103.893 $\pm$ 0.071 χ^2 /NDF: 274577.7/17

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 85.665 $\pm$ 0.063 χ^2 /NDF: 429072.6/19

Left In: 126.653 $\pm$ 0.041 χ^2 /NDF: 163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2 /NDF: 653496.6/47

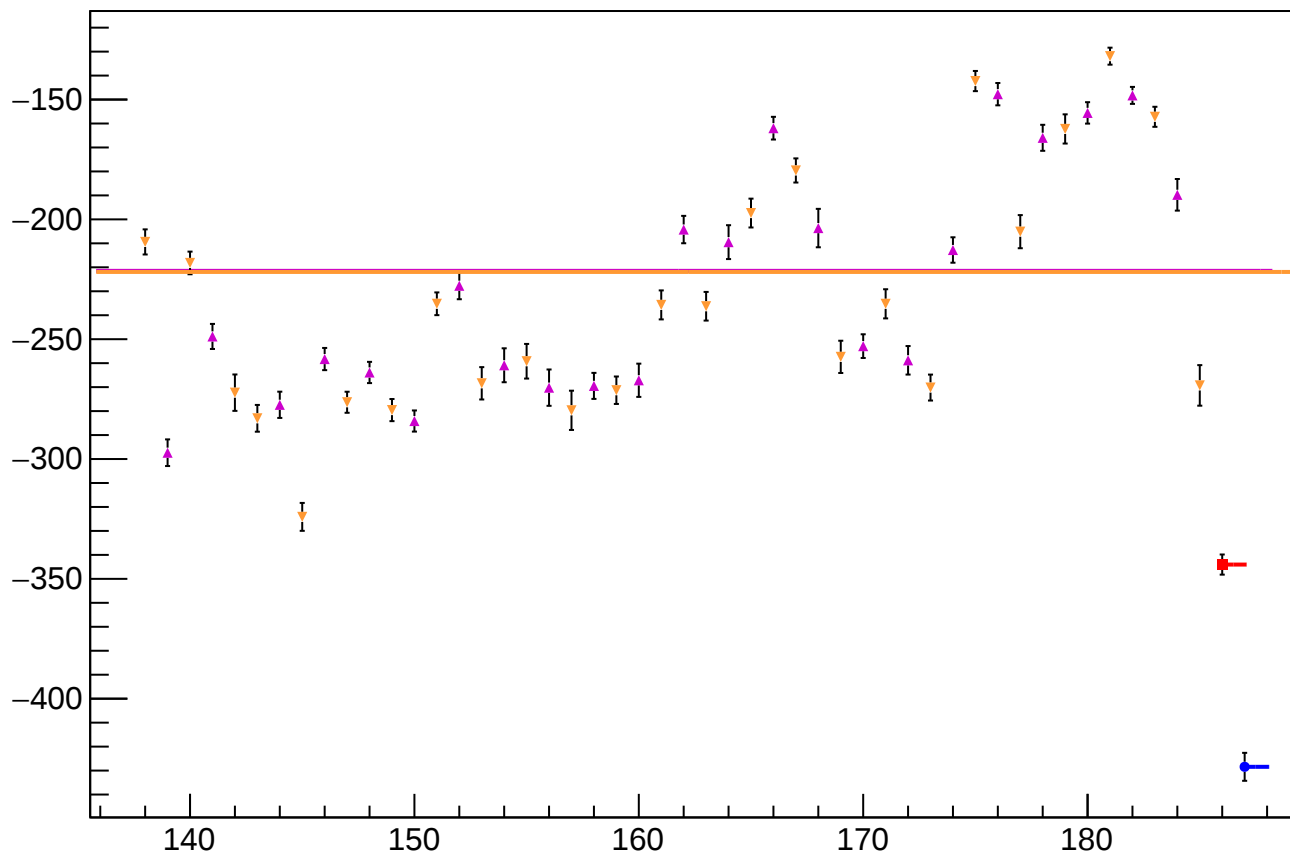
Right: 93.809 $\pm$ 0.047 χ^2 /NDF: 740619.7/37

In: 120.886 $\pm$ 0.035 χ^2 /NDF: 515418.6/40

Out: 111.077 $\pm$ 0.034 χ^2 /NDF: 1136901.3/44

All: 115.772 $\pm$ 0.025 χ^2 /NDF: 1692139.6/85

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: -344.039+/-4.204 χ^2/NDF : 0.0/0

Left In: -221.483+/-1.102 χ^2/NDF : 2149.8/22

Left: -221.712+/-0.773 χ^2/NDF : 4728.2/47

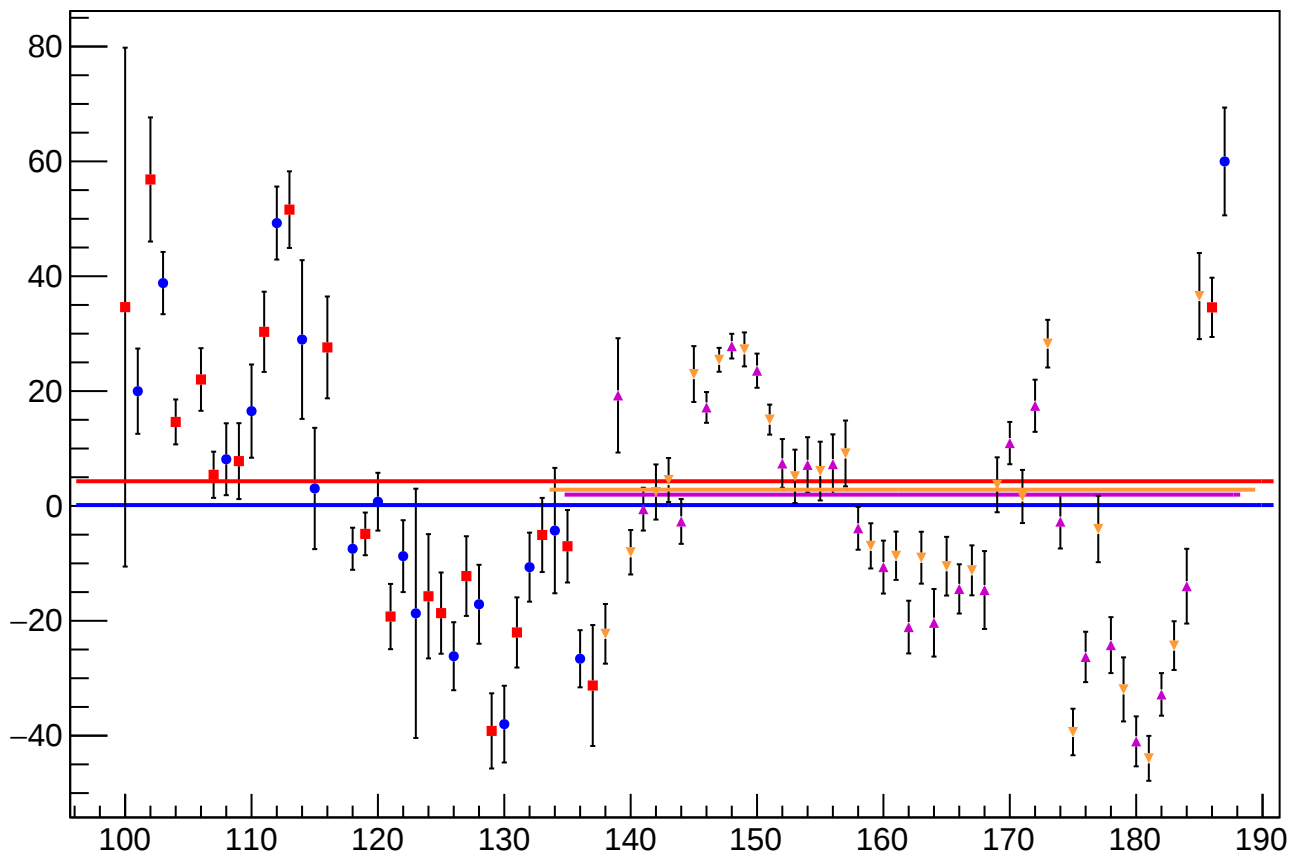
Right: -372.896+/-3.410 χ^2/NDF : 137.8/1

In: -228.620+/-1.083 χ^2/NDF : 3365.6/23

Out: -229.553+/-1.050 χ^2/NDF : 3369.4/25

All: -229.101+/-0.754 χ^2/NDF : 6735.4/49

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.152 ± 1.519 $\chi^2/\text{NDF}: 266.5/17$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 4.302 ± 1.352 $\chi^2/\text{NDF}: 269.8/19$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

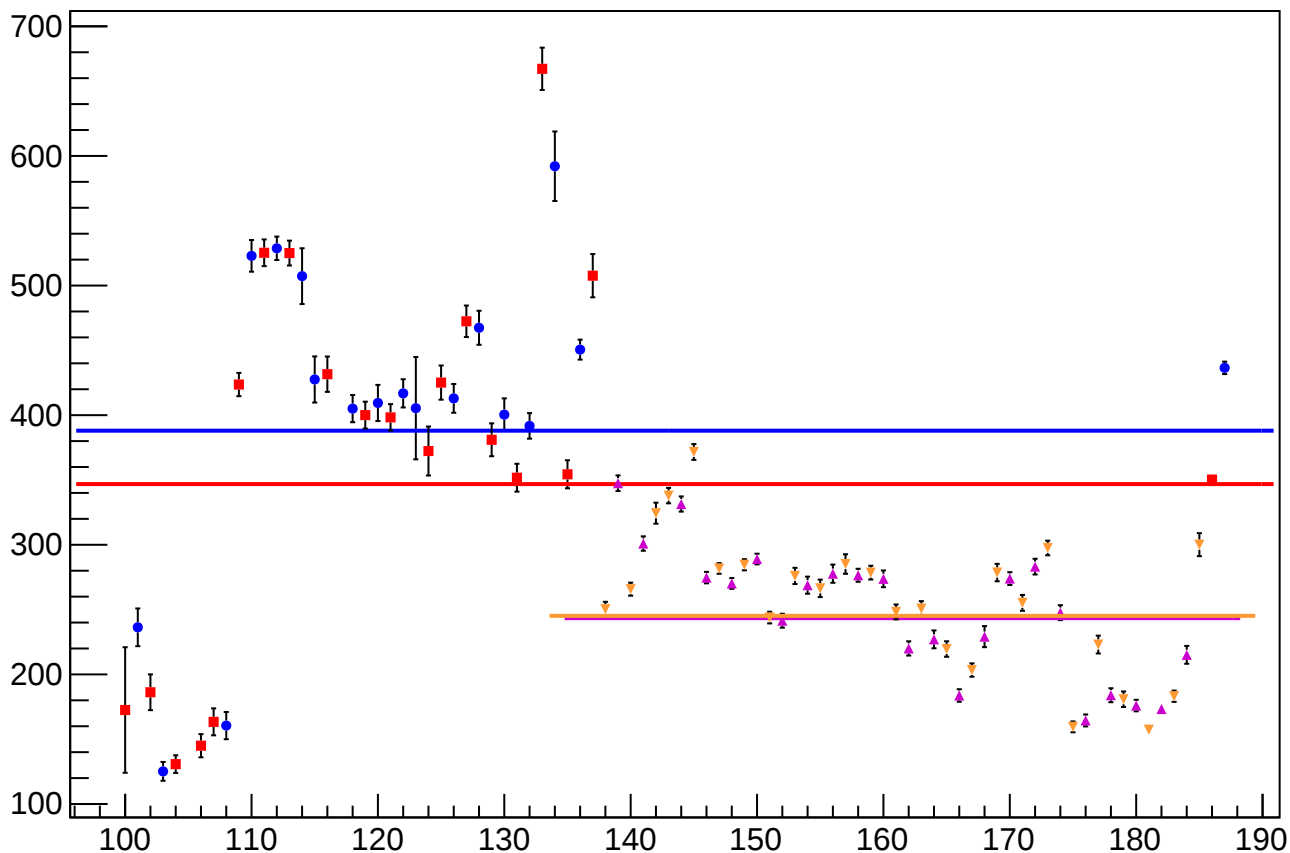
Right: 2.467 ± 1.010 $\chi^2/\text{NDF}: 540.5/37$

In: 1.547 ± 0.732 $\chi^2/\text{NDF}: 856.7/40$

Out: 3.218 ± 0.693 $\chi^2/\text{NDF}: 957.6/44$

All: 2.428 ± 0.503 $\chi^2/\text{NDF}: 1817.0/85$

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: 346.822 $\pm$ 2.037 χ^2 /NDF: 3414.4/19

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

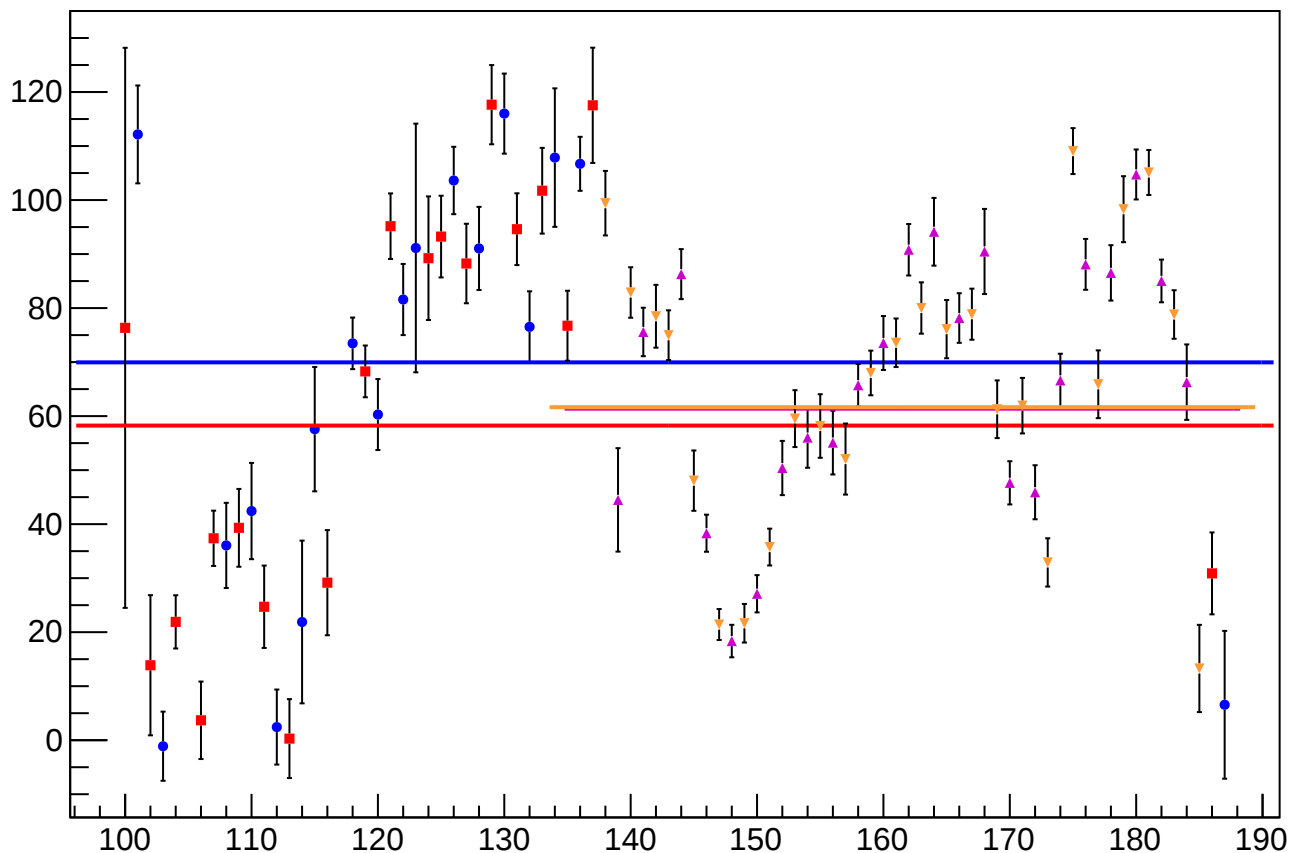
Right: 364.031 $\pm$ 1.555 χ^2 /NDF: 6152.3/37

In: 268.131 $\pm$ 0.996 χ^2 /NDF: 7799.3/40

Out: 267.539 $\pm$ 0.956 χ^2 /NDF: 7953.0/44

All: 267.823 $\pm$ 0.689 χ^2 /NDF: 15752.4/85

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: 58.248 ± 1.597 $\chi^2/\text{NDF}: 503.0/19$

Left In: 61.375 ± 0.961 $\chi^2/\text{NDF}: 699.7/22$

Left: 61.515 ± 0.671 $\chi^2/\text{NDF}: 1571.3/47$

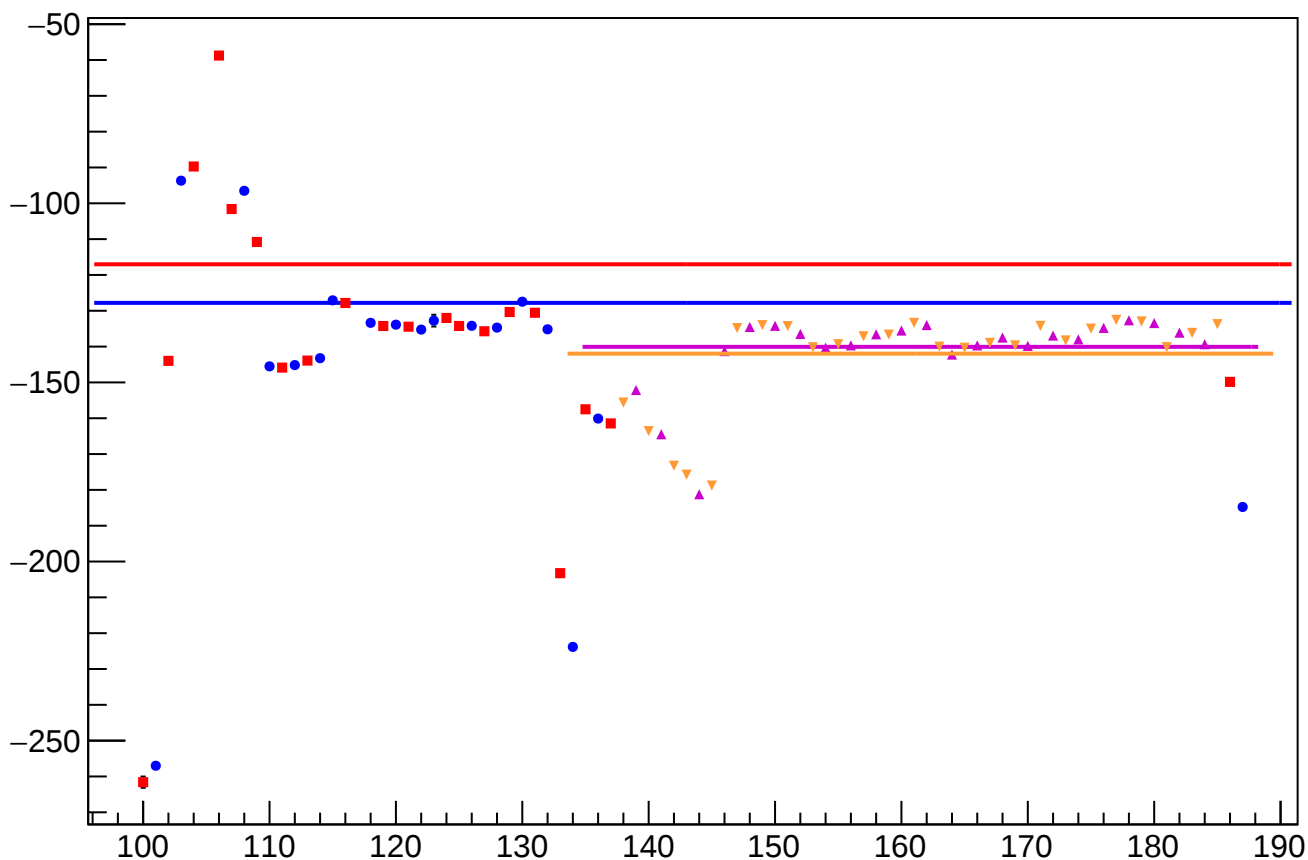
Right: 63.553 ± 1.181 $\chi^2/\text{NDF}: 973.3/37$

In: 63.356 ± 0.843 $\chi^2/\text{NDF}: 1164.0/40$

Out: 60.778 ± 0.808 $\chi^2/\text{NDF}: 1377.9/44$

All: 62.012 ± 0.583 $\chi^2/\text{NDF}: 2546.8/85$

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -127.791 ± 0.089 $\chi^2/\text{NDF}: 172455.1/17$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -117.026 ± 0.082 $\chi^2/\text{NDF}: 170731.9/19$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

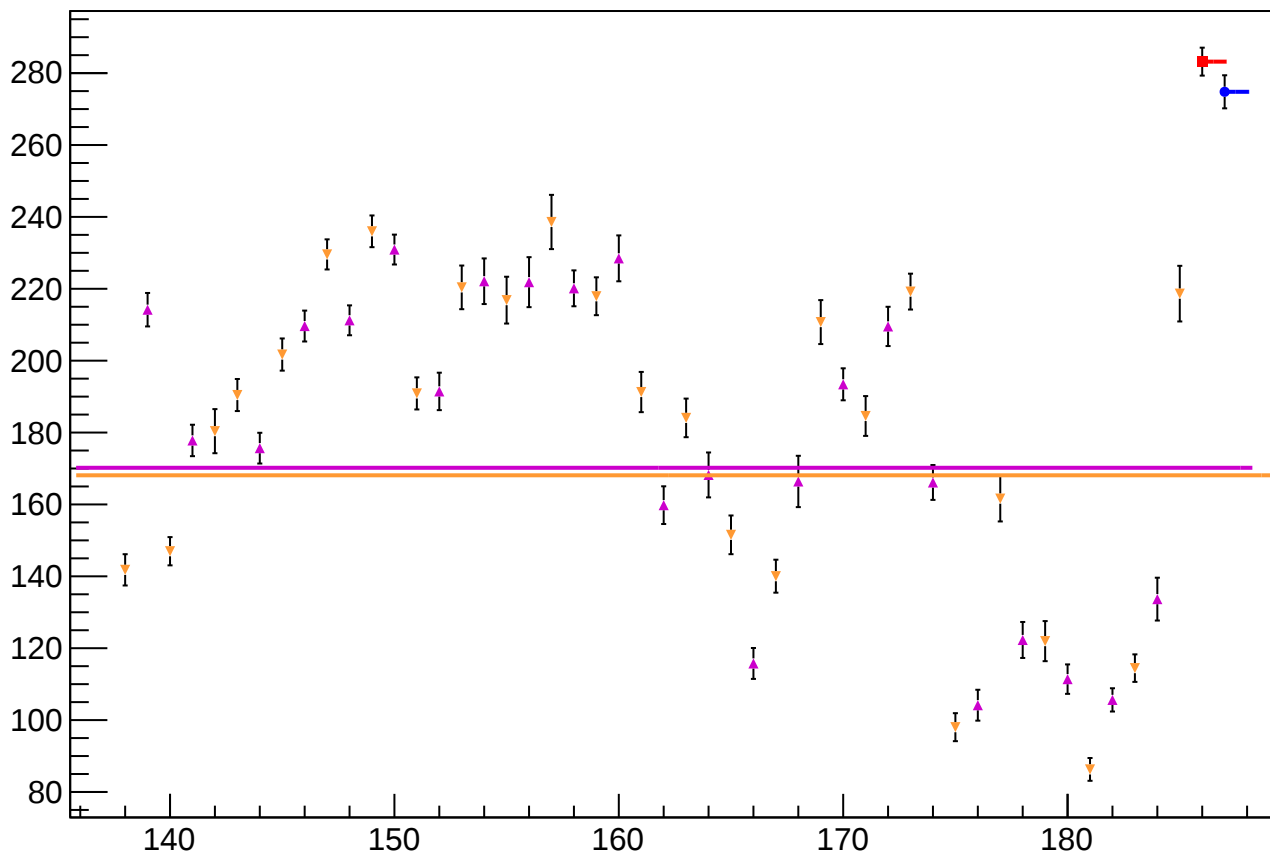
Right: -121.958 ± 0.060 $\chi^2/\text{NDF}: 351065.0/37$

In: -137.581 ± 0.040 $\chi^2/\text{NDF}: 235566.8/40$

Out: -136.265 ± 0.039 $\chi^2/\text{NDF}: 322186.8/44$

All: -136.907 ± 0.028 $\chi^2/\text{NDF}: 558301.9/85$

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: 283.198 $\pm$ 3.886 χ^2 /NDF: 0.0/0

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

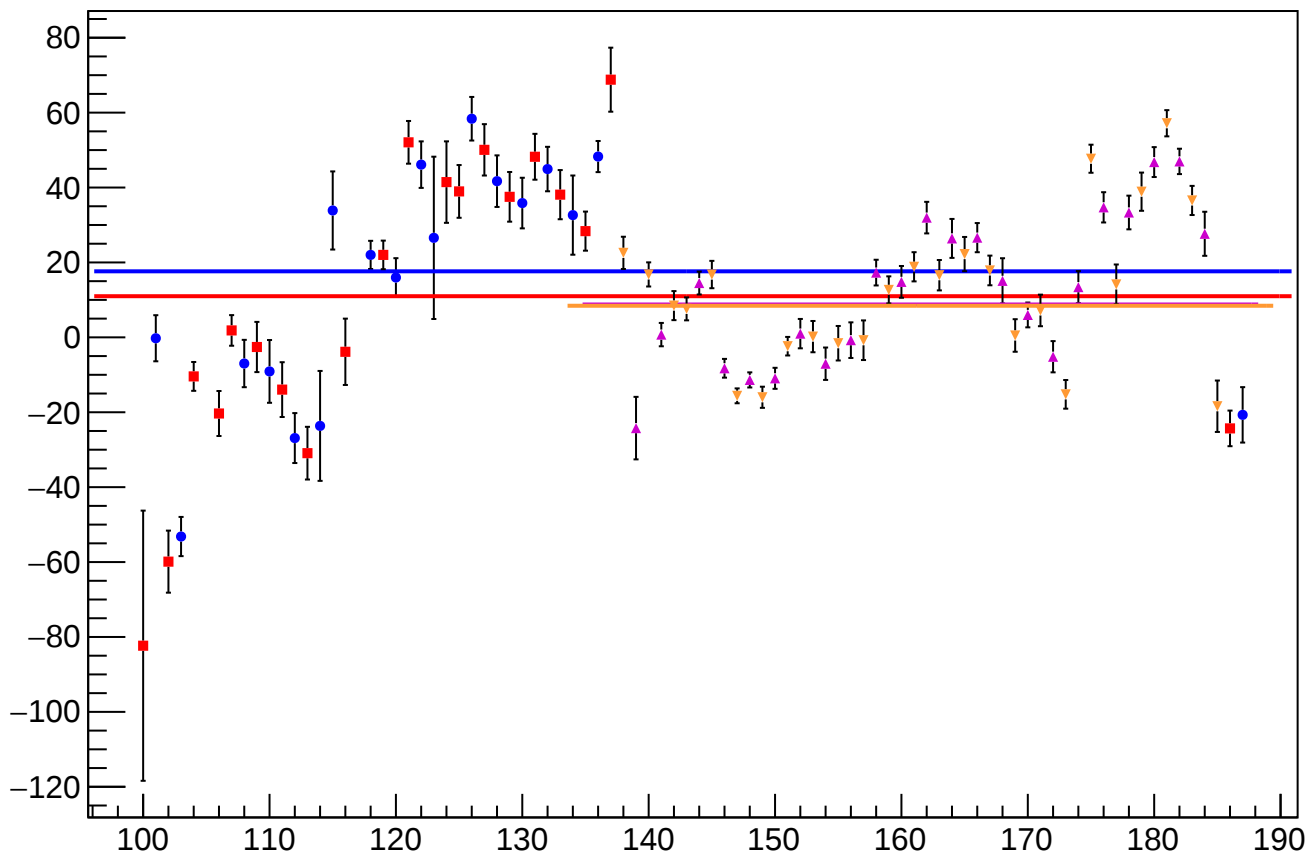
Right: 279.704 $\pm$ 2.969 χ^2 /NDF: 1.9/1

In: 174.873 $\pm$ 0.973 χ^2 /NDF:2518.1/23

Out: 174.859 $\pm$ 0.941 χ^2 /NDF:3294.5/25

All: 174.866 $\pm$ 0.676 χ^2 /NDF: 5812.5/49

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.629+/-1.473 χ^2/NDF : 467.4/17

Left Out: 8.436+/-0.728 χ^2/NDF : 752.0/24

Right Out: 10.986+/-1.335 χ^2/NDF : 495.4/19

Left In: 8.769+/-0.758 χ^2/NDF : 626.8/22

Left: 8.596+/-0.525 χ^2/NDF : 1379.0/47

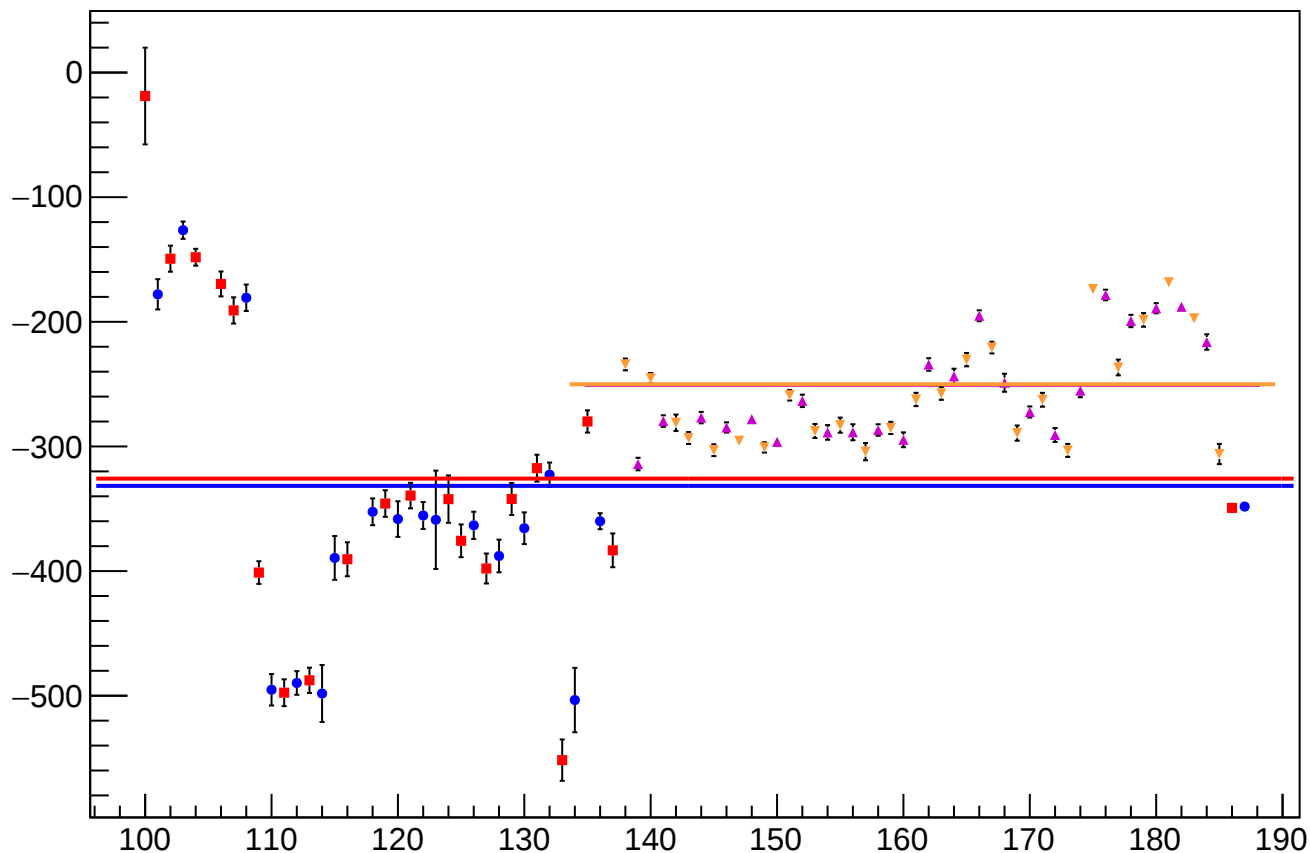
Right: 13.982+/-0.989 χ^2/NDF : 973.9/37

In: 10.625+/-0.674 χ^2/NDF : 1122.8/40

Out: 9.020+/-0.639 χ^2/NDF : 1250.2/44

All: 9.780+/-0.464 χ^2/NDF : 2376.0/85

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -331.617 ± 2.191 $\chi^2/\text{NDF}: 1875.9/17$

Left Out: -250.119 ± 0.972 $\chi^2/\text{NDF}: 2246.9/24$

Right Out: -325.790 ± 1.958 $\chi^2/\text{NDF}: 2393.9/19$

Left In: -250.628 ± 0.990 $\chi^2/\text{NDF}: 1937.1/22$

Left: -250.369 ± 0.694 $\chi^2/\text{NDF}: 4184.2/47$

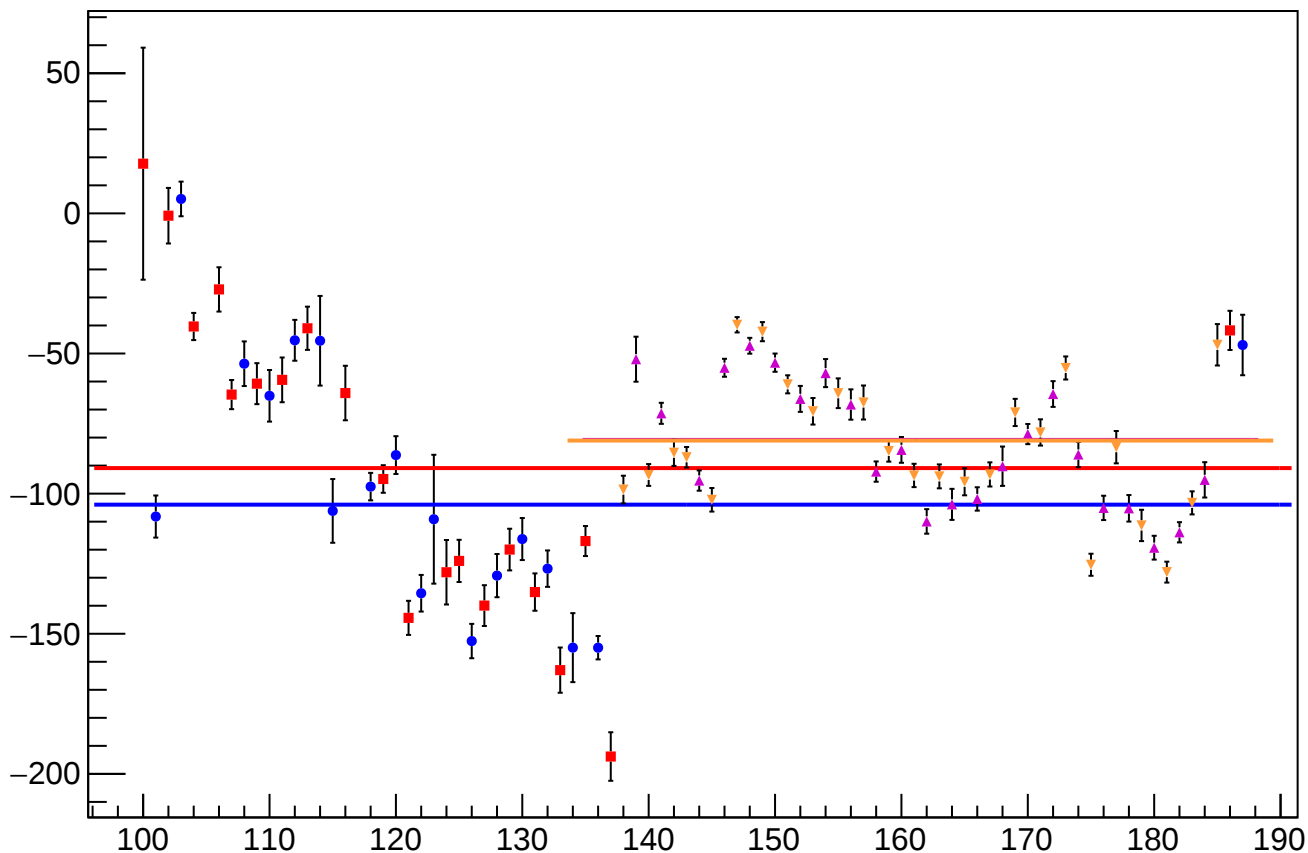
Right: -328.377 ± 1.460 $\chi^2/\text{NDF}: 4273.8/37$

In: -264.371 ± 0.902 $\chi^2/\text{NDF}: 4947.8/40$

Out: -265.087 ± 0.871 $\chi^2/\text{NDF}: 5839.0/44$

All: -264.742 ± 0.627 $\chi^2/\text{NDF}: 10787.1/85$

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: -90.887 ± 1.571 χ^2/NDF : 876.9/19

Left In: -80.834 ± 0.872 χ^2/NDF : 693.1/22

Left: -80.949 ± 0.606 χ^2/NDF : 1606.2/47

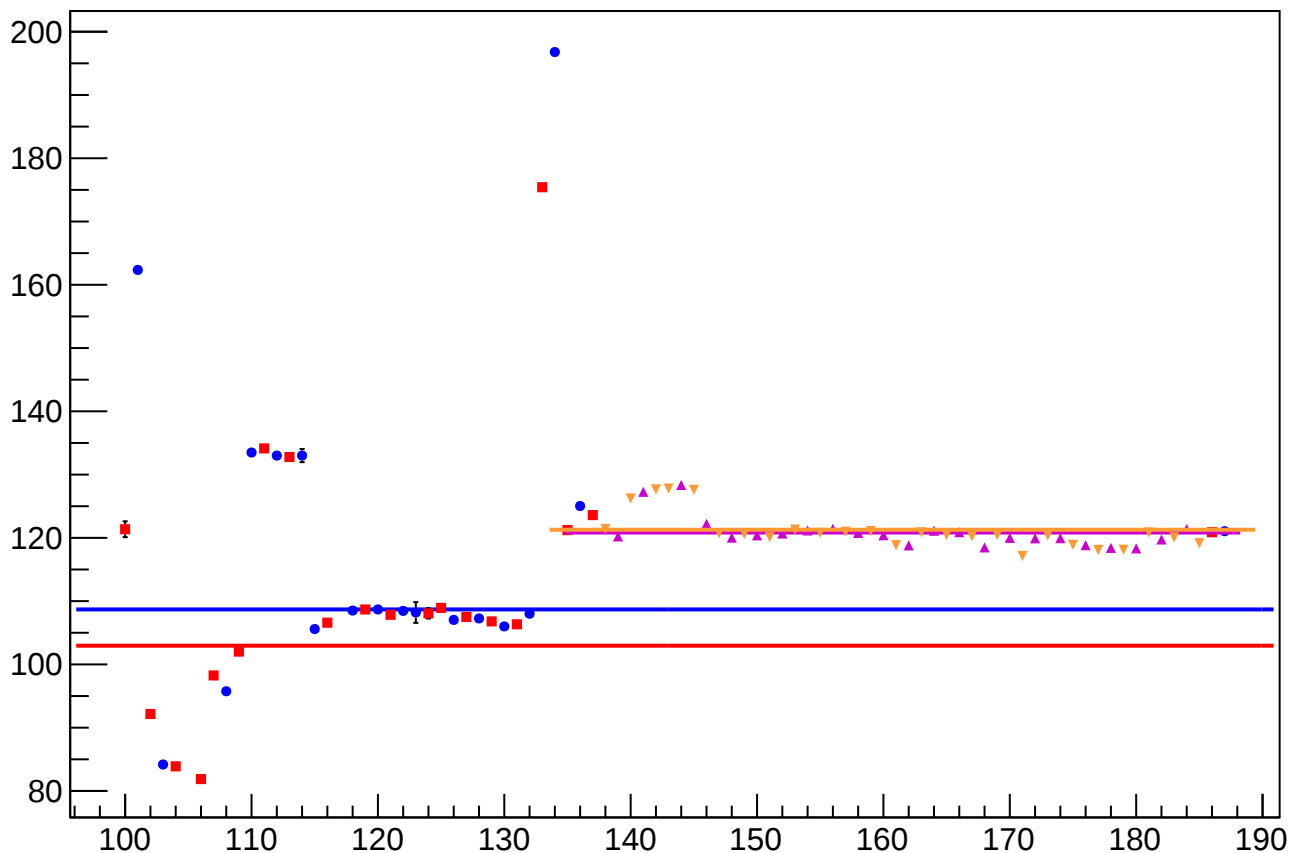
Right: -96.920 ± 1.152 χ^2/NDF : 1672.1/37

In: -85.670 ± 0.775 χ^2/NDF : 1603.4/40

Out: -83.254 ± 0.743 χ^2/NDF : 1820.4/44

All: -84.411 ± 0.536 χ^2/NDF : 3428.8/85

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: 102.956 $\pm$ 0.079 χ^2 /NDF: 54273.5/19

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

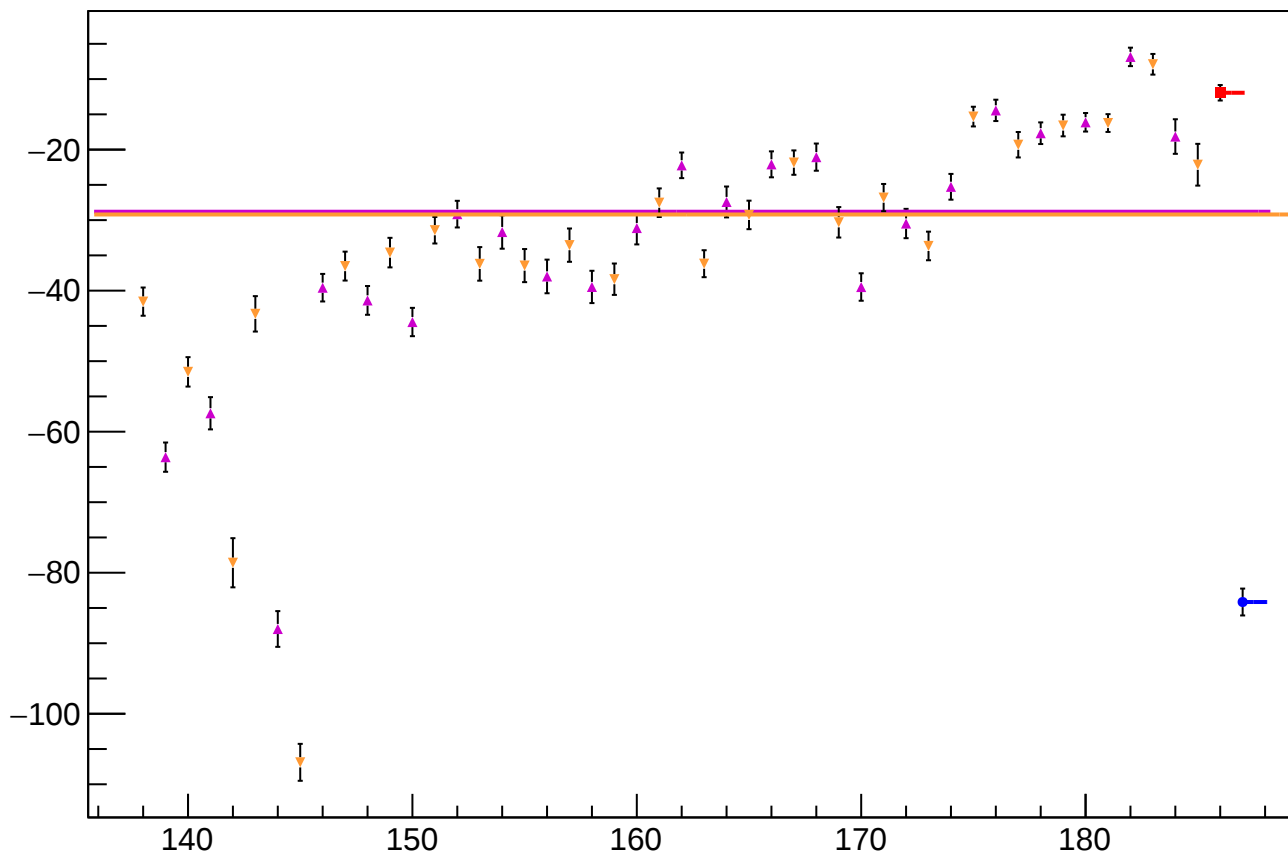
Right: 105.624 $\pm$ 0.057 χ^2 /NDF: 130425.9/37

In: 118.545 $\pm$ 0.037 χ^2 /NDF: 93916.1/40

Out: 117.500 $\pm$ 0.036 χ^2 /NDF: 102323.3/44

All: 118.009 $\pm$ 0.026 χ^2 /NDF: 196656.0/85

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: -11.940 ± 1.098 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$

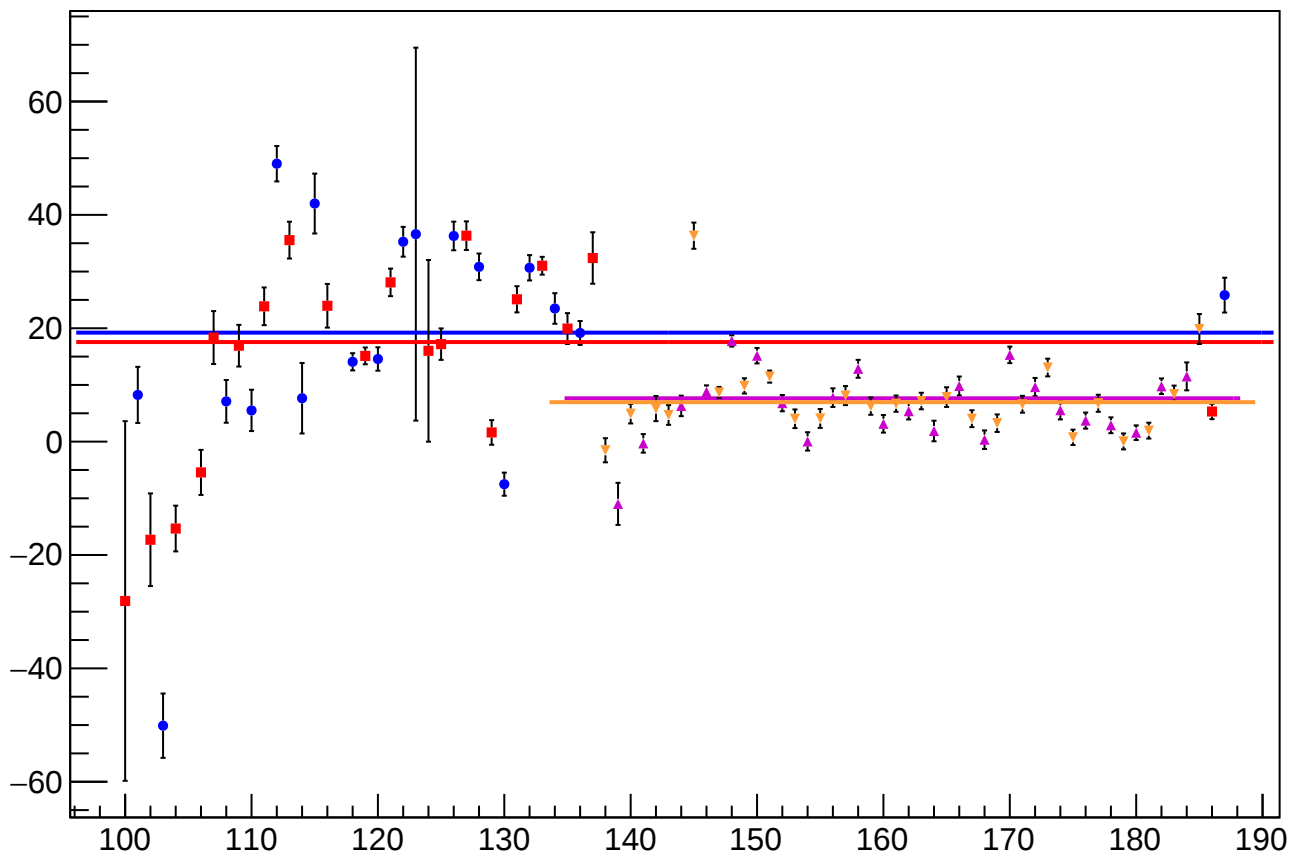
Right: -29.936 ± 0.951 $\chi^2/\text{NDF}: 1078.0/1$

In: -31.093 ± 0.387 $\chi^2/\text{NDF}: 2572.4/23$

Out: -27.279 ± 0.366 $\chi^2/\text{NDF}: 2101.1/25$

All: -29.080 ± 0.266 $\chi^2/\text{NDF}: 4724.6/49$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 19.224 $\pm$ 0.640 χ^2 /NDF: 621.0/17

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 17.564 $\pm$ 0.581 χ^2 /NDF: 466.1/19

Left In: 7.638 $\pm$ 0.313 χ^2 /NDF:337.7/22

Left: 7.287 $\pm$ 0.218 χ^2 /NDF: 661.5/47

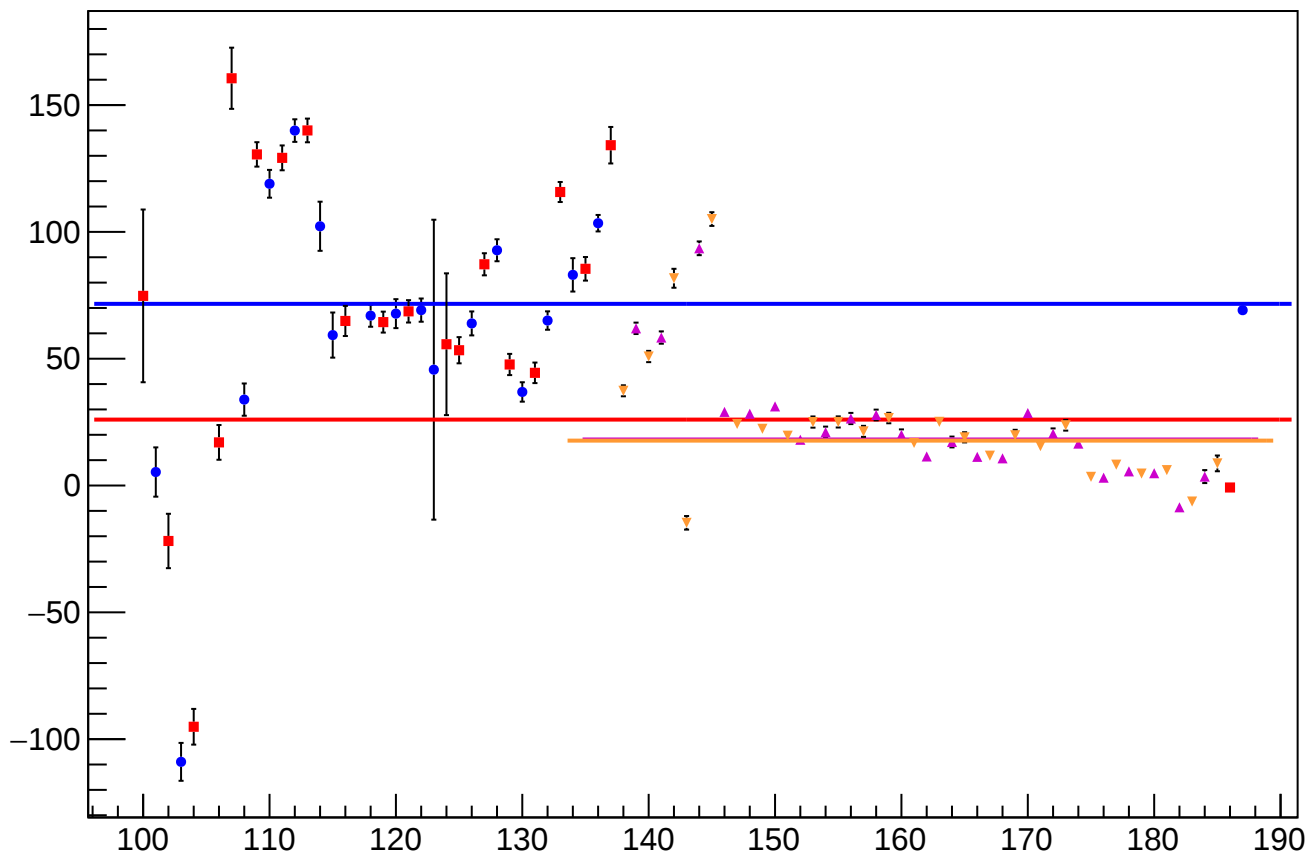
Right: 18.314 $\pm$ 0.430 χ^2 /NDF: 1090.8/37

In: 9.882 $\pm$ 0.282 χ^2 /NDF:1223.3/40

Out: 9.230 $\pm$ 0.269 χ^2 /NDF:1049.6/44

All: 9.541 $\pm$ 0.194 χ^2 /NDF: 2275.7/85

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: 25.994 $\pm$ 0.714 χ^2 /NDF: 4287.7/19

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

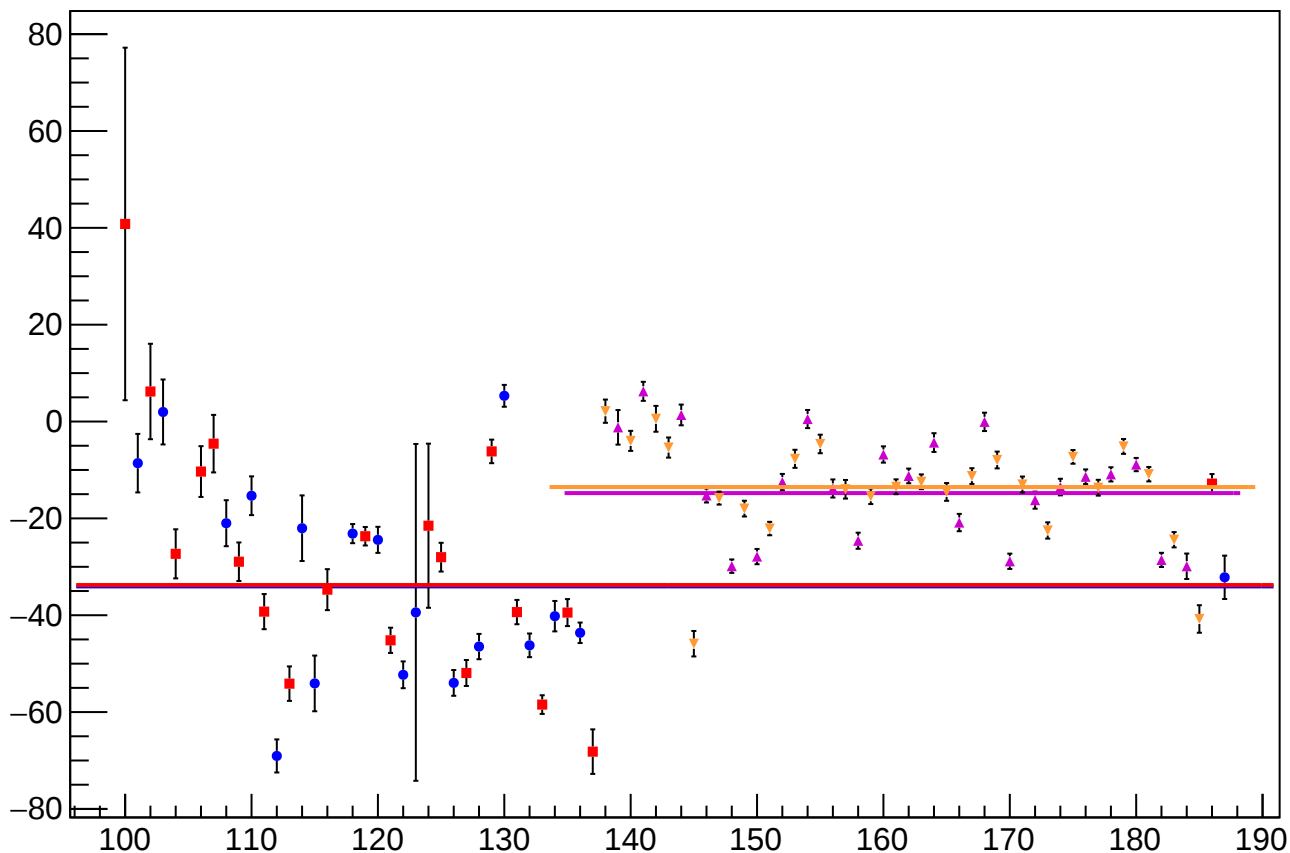
Right: 41.986 $\pm$ 0.575 χ^2 /NDF: 6924.8/37

In: 25.657 $\pm$ 0.364 χ^2 /NDF:6148.1/40

Out: 19.591 $\pm$ 0.340 χ^2 /NDF:6824.1/44

All: 22.420 $\pm$ 0.249 χ^2 /NDF: 13120.4/85

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.045 ± 0.736 $\chi^2/\text{NDF}: 715.0/17$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -33.762 ± 0.691 $\chi^2/\text{NDF}: 670.5/19$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

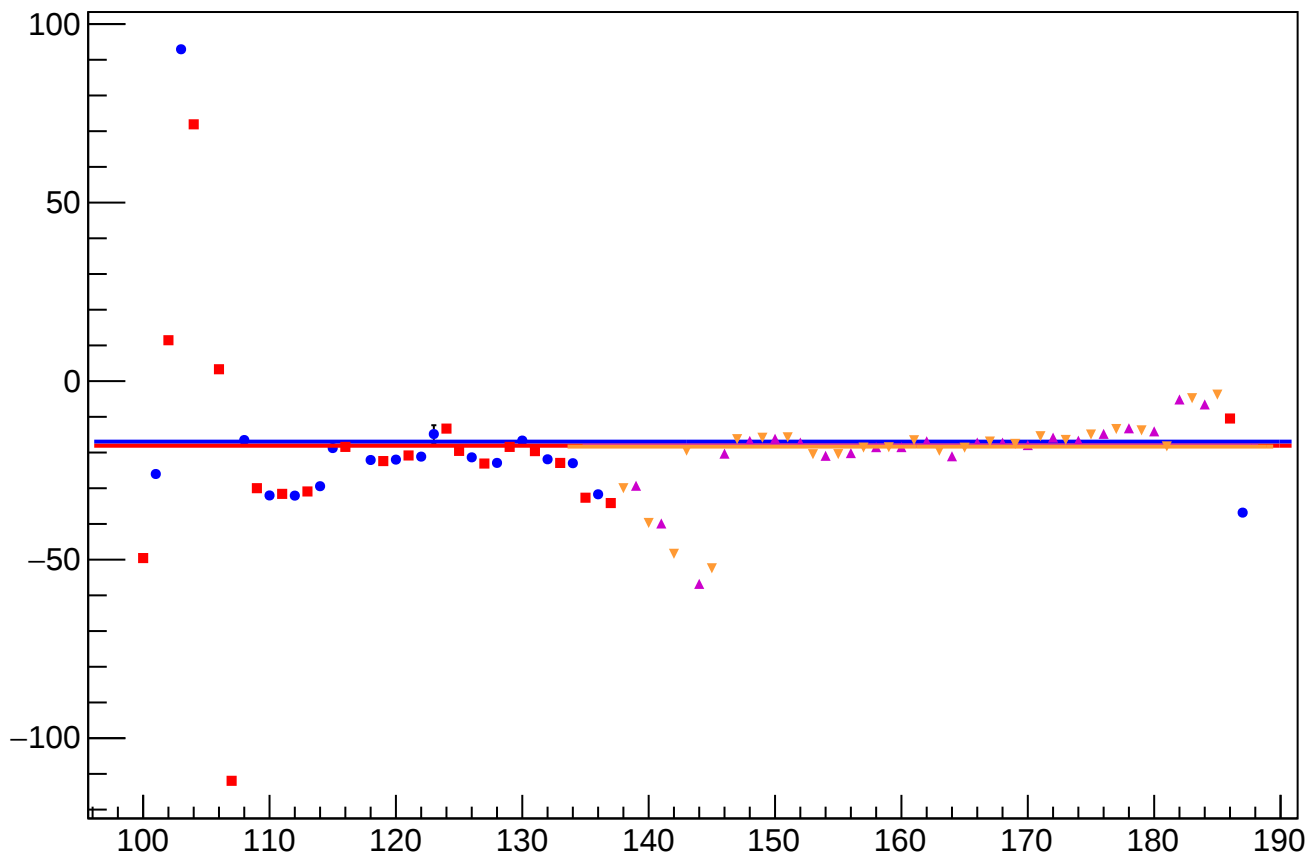
Right: -33.894 ± 0.504 $\chi^2/\text{NDF}: 1385.6/37$

In: -18.399 ± 0.319 $\chi^2/\text{NDF}: 2109.4/40$

Out: -17.551 ± 0.308 $\chi^2/\text{NDF}: 1930.4/44$

All: -17.960 ± 0.222 $\chi^2/\text{NDF}: 4043.5/85$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -16.951 $\pm$ 0.044 χ^2 /NDF: 480489.6/17

Left Out: -18.334 $\pm$ 0.016 χ^2 /NDF: 284152.1/24

Right Out: -18.094 $\pm$ 0.043 χ^2 /NDF: 436979.5/19

Left In: -18.083 $\pm$ 0.016 χ^2 /NDF: 241949.5/22

Left: -18.211 $\pm$ 0.011 χ^2 /NDF: 526224.9/47

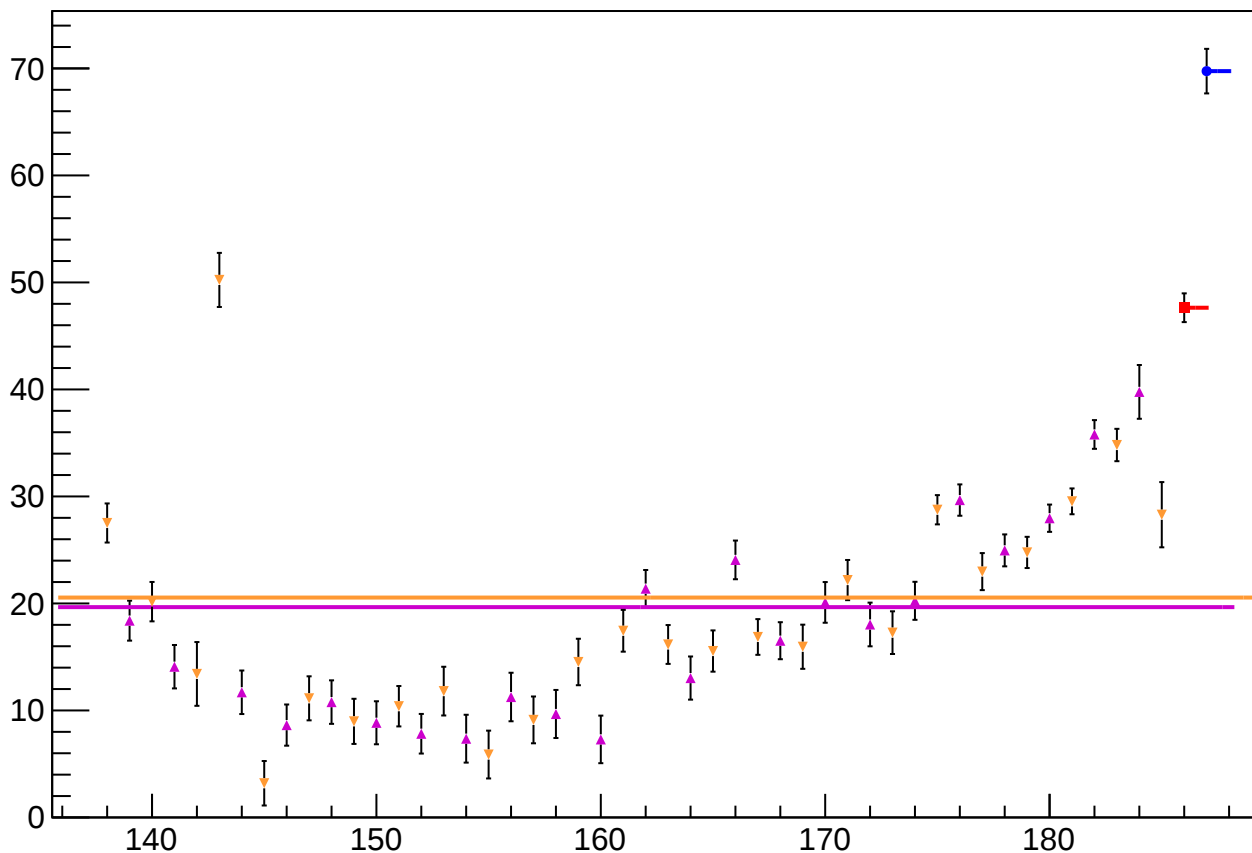
Right: -17.534 $\pm$ 0.031 χ^2 /NDF: 917812.5/37

In: -17.950 $\pm$ 0.015 χ^2 /NDF: 723022.4/40

Out: -18.306 $\pm$ 0.015 χ^2 /NDF: 721158.6/44

All: -18.131 $\pm$ 0.011 χ^2 /NDF: 1444462.7/85

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 69.747 +/- 2.082 χ^2/NDF : 0.0/0

Left Out: 20.550 +/- 0.373 χ^2/NDF : 626.4/24

Right Out: 47.635 +/- 1.343 χ^2/NDF : 0.0/0

Left In: 19.656 +/- 0.380 χ^2/NDF : 571.8/22

Left: 20.112 +/- 0.266 χ^2/NDF : 1201.0/47

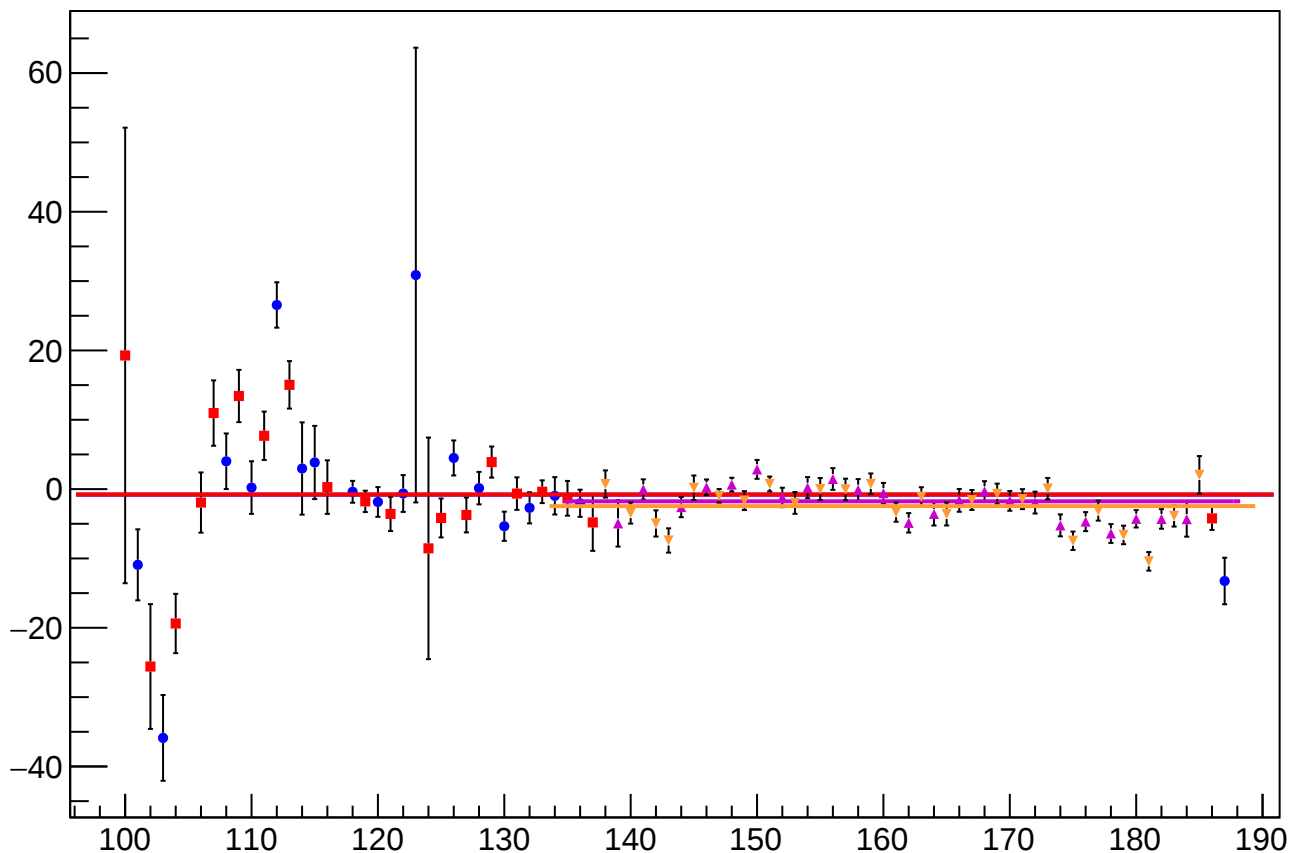
Right: 54.133 +/- 1.129 χ^2/NDF : 79.6/1

In: 21.273 +/- 0.374 χ^2/NDF : 1131.7/23

Out: 22.489 +/- 0.359 χ^2/NDF : 1003.7/25

All: 21.906 +/- 0.259 χ^2/NDF : 2141.0/49

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: -0.776 ± 0.611 χ^2/NDF : 89.2/19

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

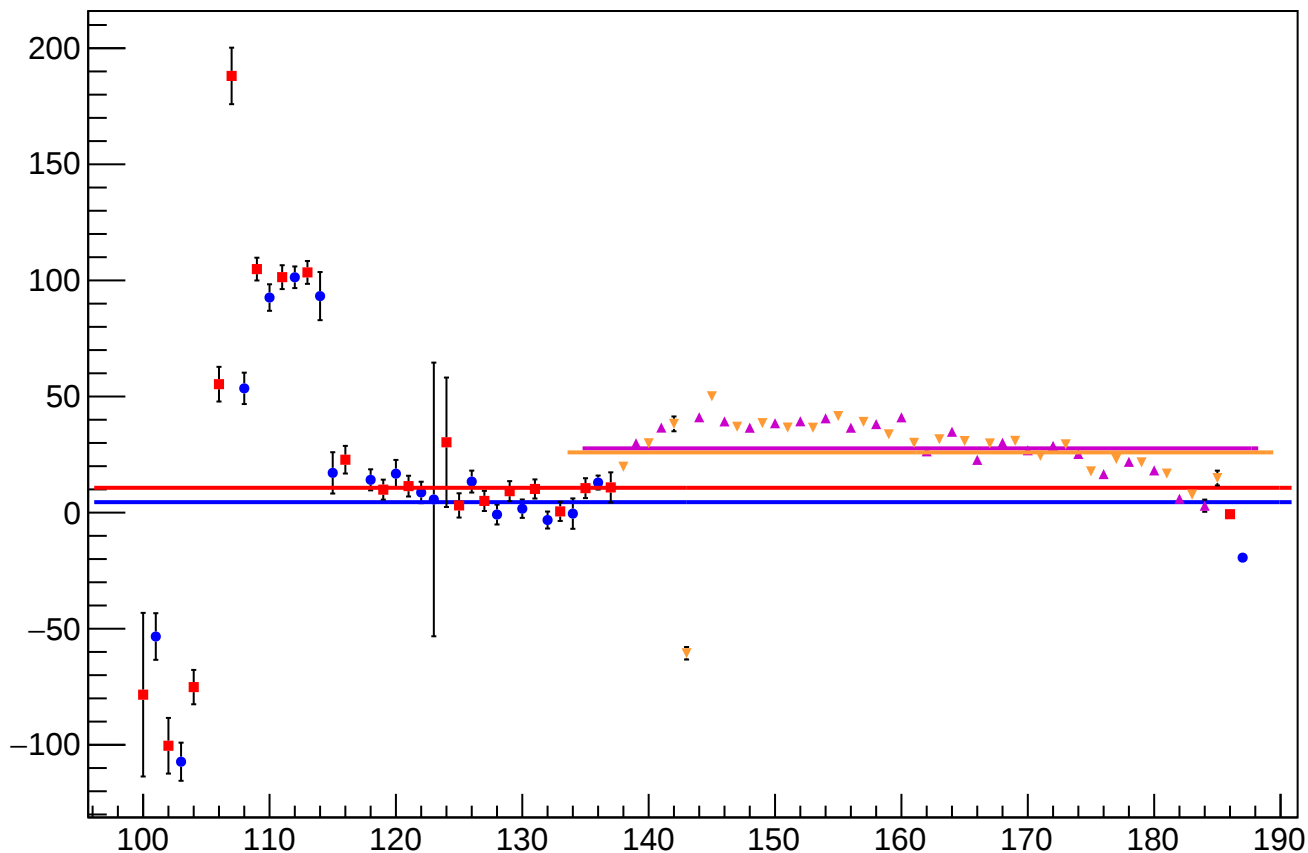
Right: -0.785 ± 0.445 χ^2/NDF : 223.1/37

In: -1.587 ± 0.274 χ^2/NDF : 203.1/40

Out: -2.142 ± 0.264 χ^2/NDF : 201.3/44

All: -1.875 ± 0.190 χ^2/NDF : 406.5/85

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.506 $\pm$ 1.009 χ^2 /NDF: 1239.2/17

Left Out: 25.938 $\pm$ 0.372 χ^2 /NDF:1711.6/24

Right Out: 10.689 $\pm$ 0.814 χ^2 /NDF: 1636.1/19

Left In: 27.677 $\pm$ 0.378 χ^2 /NDF:803.9/22

Left: 26.794 $\pm$ 0.265 χ^2 /NDF: 2526.2/47

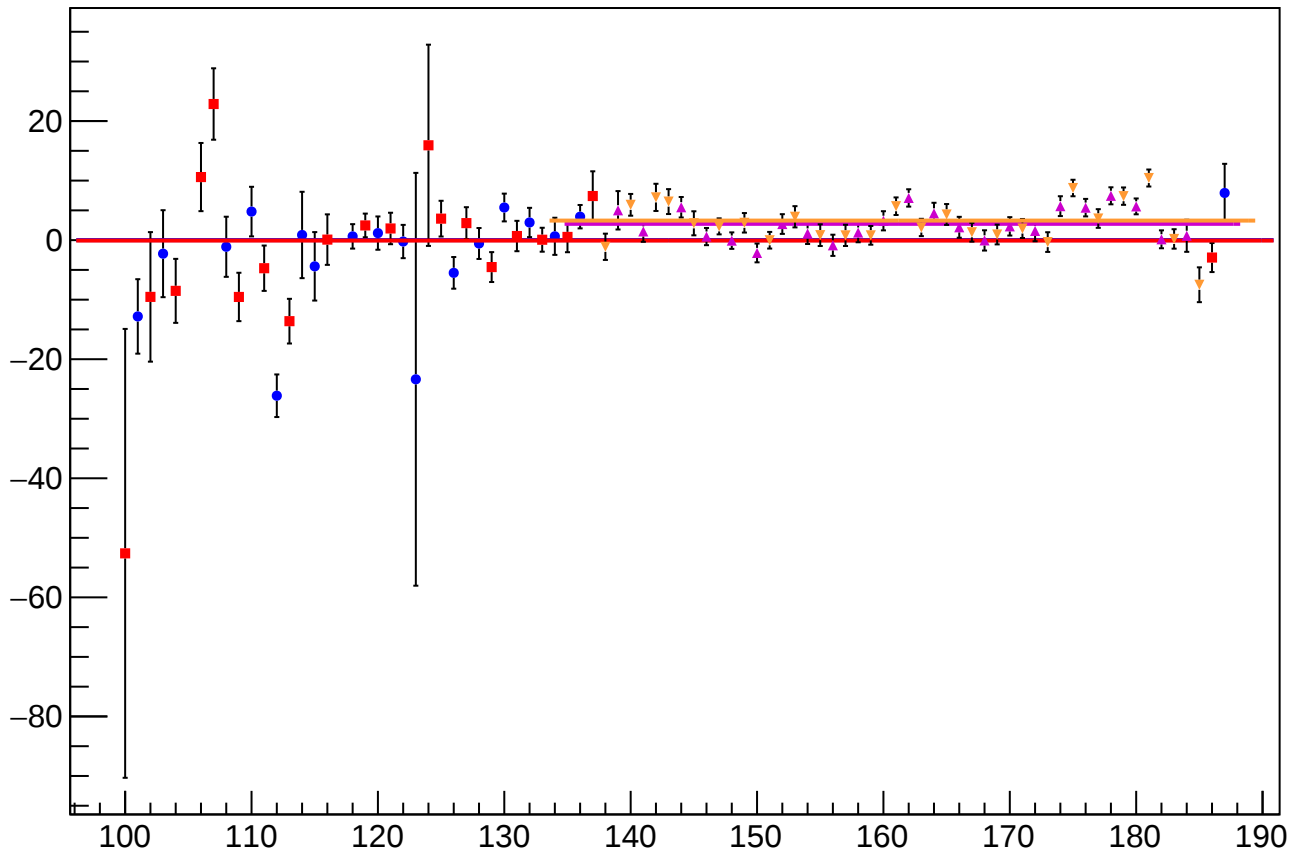
Right: 8.250 $\pm$ 0.634 χ^2 /NDF: 2898.1/37

In: 24.822 $\pm$ 0.354 χ^2 /NDF:2505.6/40

Out: 23.301 $\pm$ 0.339 χ^2 /NDF:3637.8/44

All: 24.027 $\pm$ 0.245 χ^2 /NDF: 6153.0/85

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: -0.069 ± 0.717 χ^2/NDF : 56.9/19

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

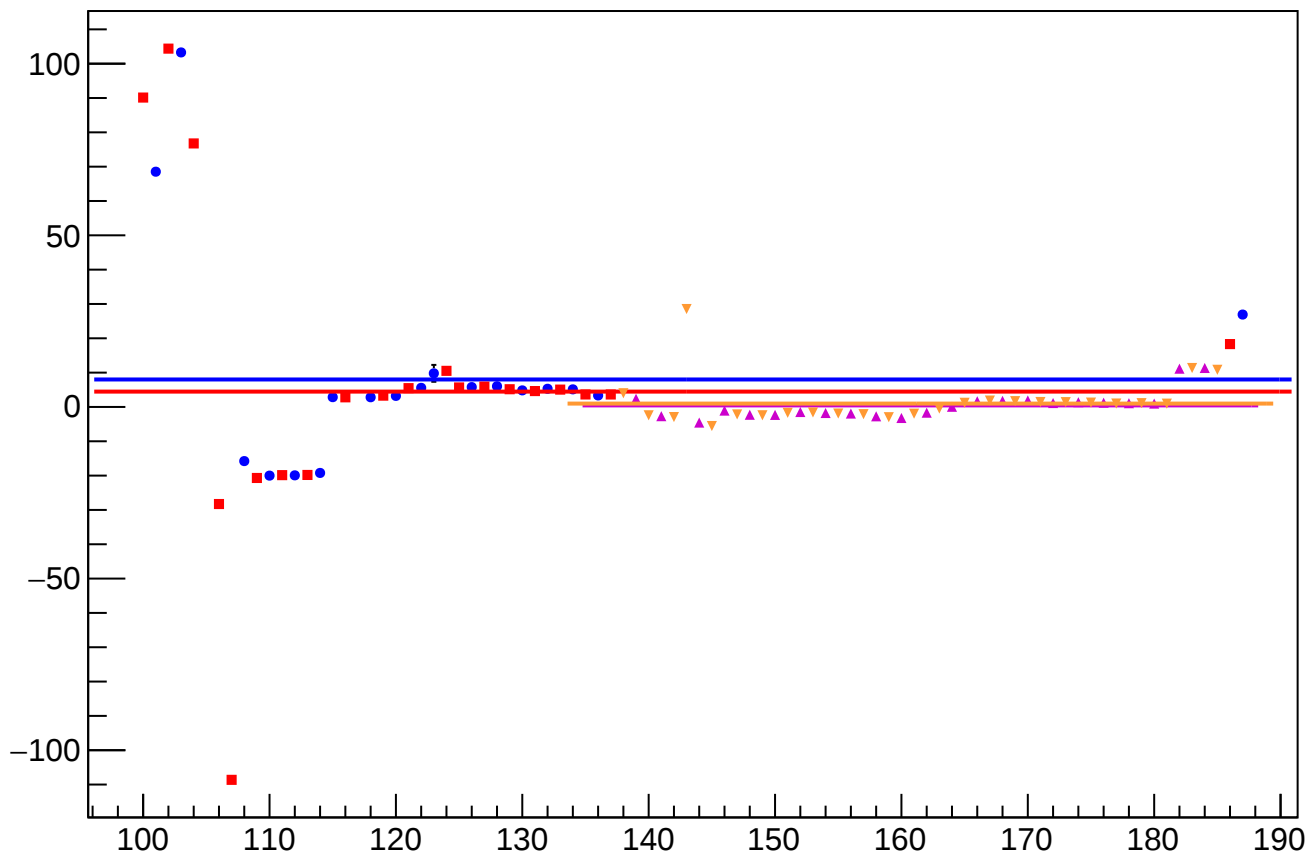
Right: -0.033 ± 0.516 χ^2/NDF : 135.3/37

In: 2.263 ± 0.310 χ^2/NDF : 154.0/40

Out: 2.693 ± 0.301 χ^2/NDF : 177.2/44

All: 2.485 ± 0.216 χ^2/NDF : 332.2/85

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 8.004 $\pm$ 0.044 χ^2 /NDF: 360647.5/17

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF:117391.3/24

Right Out: 4.471 $\pm$ 0.044 χ^2 /NDF: 517478.4/19

Left In: 0.451 $\pm$ 0.015 χ^2 /NDF:50699.8/22

Left: 0.719 $\pm$ 0.011 χ^2 /NDF: 168685.3/47

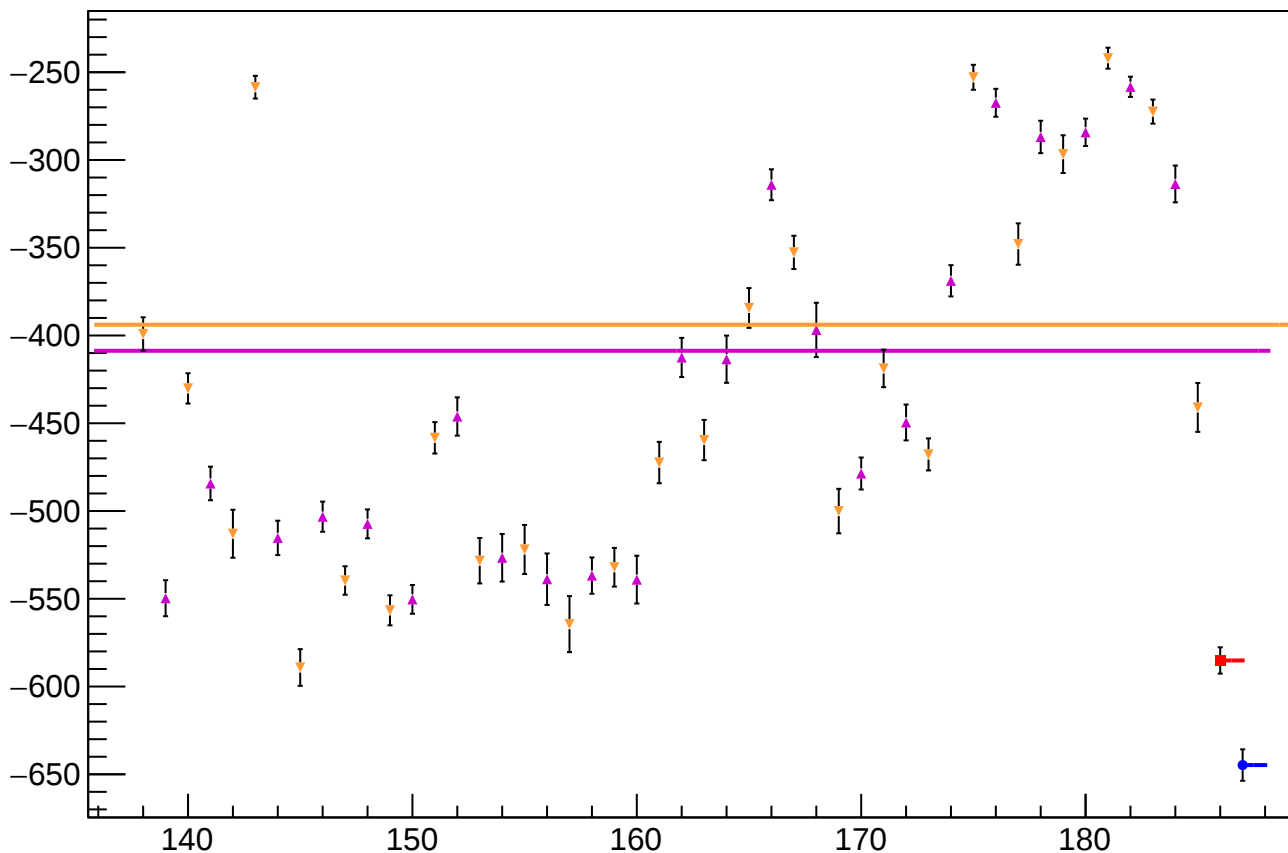
Right: 6.240 $\pm$ 0.031 χ^2 /NDF: 881330.2/37

In: 1.275 $\pm$ 0.015 χ^2 /NDF:437475.0/40

Out: 1.348 $\pm$ 0.014 χ^2 /NDF:640460.1/44

All: 1.312 $\pm$ 0.010 χ^2 /NDF: 1077948.1/85

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: -585.144 $\pm$ 7.497 χ^2 /NDF: 0.0/0

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

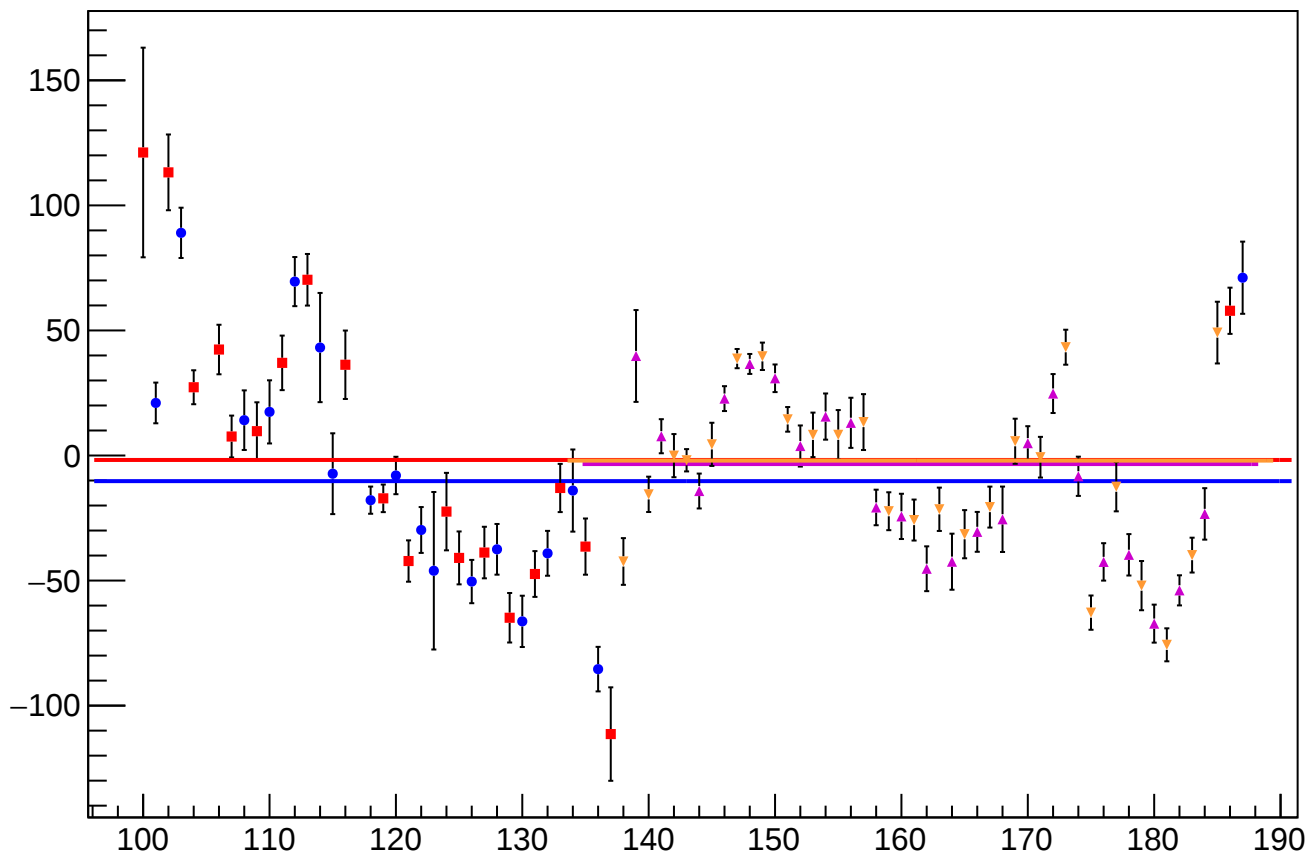
Right: -609.670 $\pm$ 5.751 χ^2 /NDF: 26.0/1

In: -419.665 $\pm$ 1.932 χ^2 /NDF:3724.0/23

Out: -405.382 $\pm$ 1.839 χ^2 /NDF:4384.6/25

All: -412.170 $\pm$ 1.332 χ^2 /NDF: 8137.3/49

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: -1.780 ± 2.197 $\chi^2/\text{NDF}: 388.3/19$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

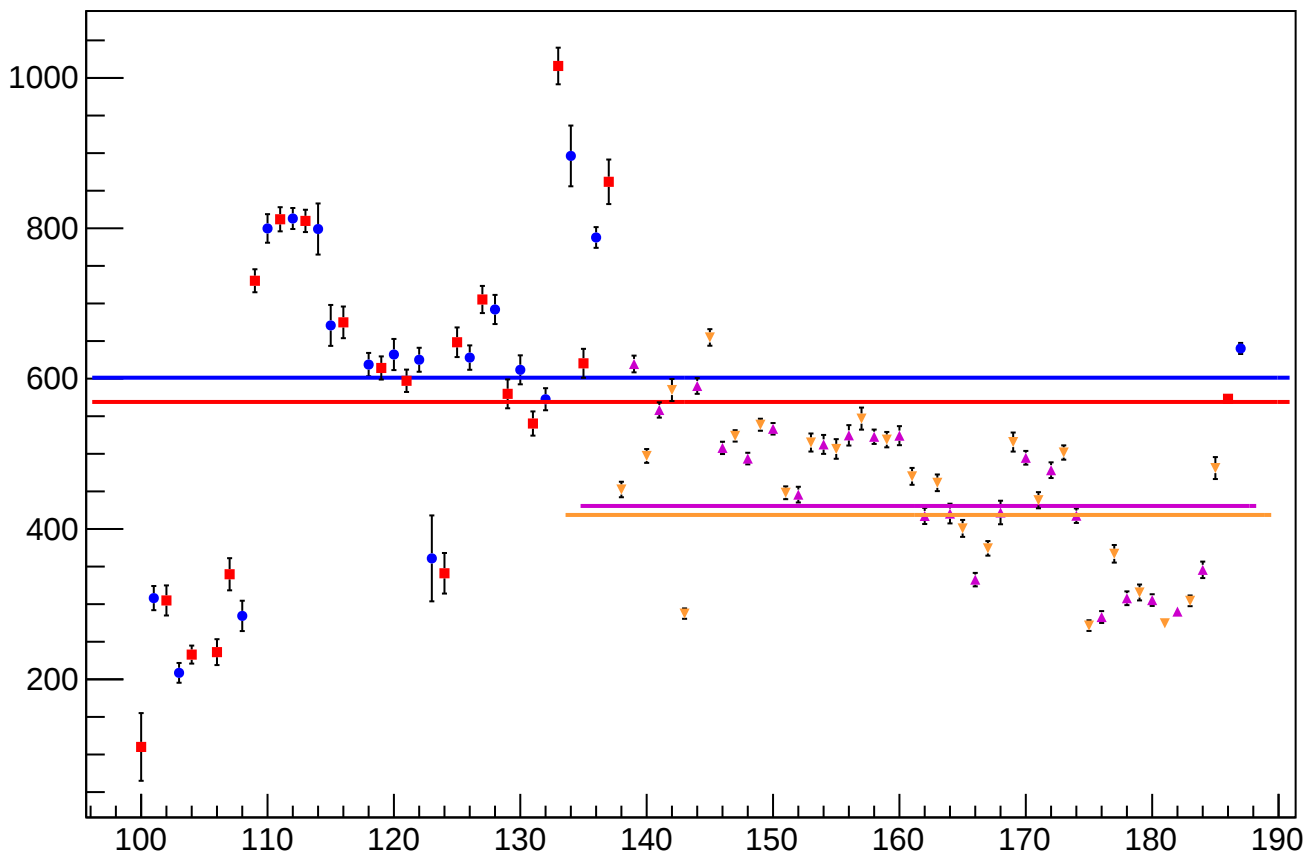
Right: -5.777 ± 1.596 $\chi^2/\text{NDF}: 768.5/37$

In: -5.467 ± 1.272 $\chi^2/\text{NDF}: 830.2/40$

Out: -1.961 ± 1.195 $\chi^2/\text{NDF}: 952.1/44$

All: -3.605 ± 0.871 $\chi^2/\text{NDF}: 1786.4/85$

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: 568.997 $\pm$ 3.405 χ^2 /NDF: 2783.4/19

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

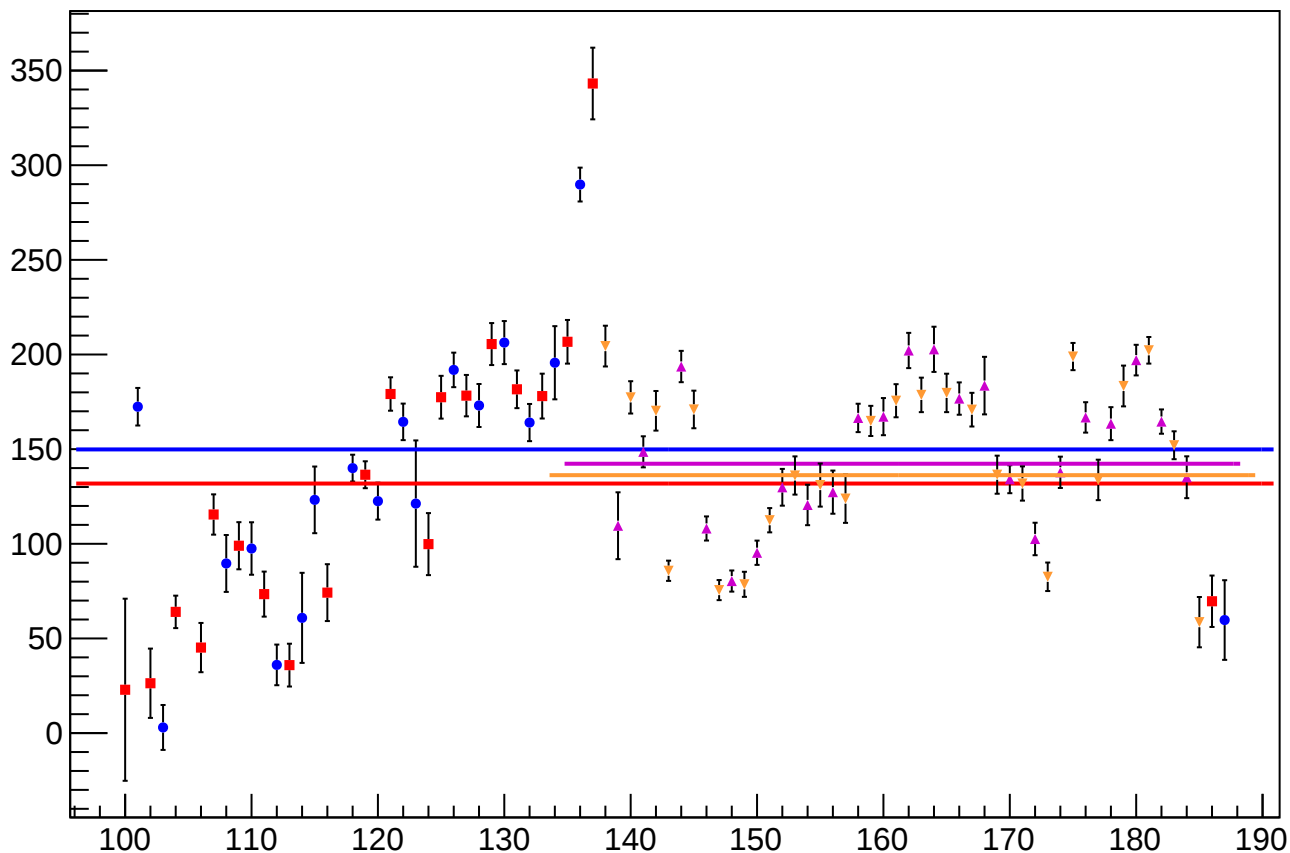
Right: 583.568 $\pm$ 2.522 χ^2 /NDF: 4988.8/37

In: 467.523 $\pm$ 1.745 χ^2 /NDF:6635.8/40

Out: 454.508 $\pm$ 1.662 χ^2 /NDF:7564.1/44

All: 460.701 $\pm$ 1.204 χ^2 /NDF: 14229.0/85

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: 131.832 $\pm$ 2.572 χ^2 /NDF: 604.7/19

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

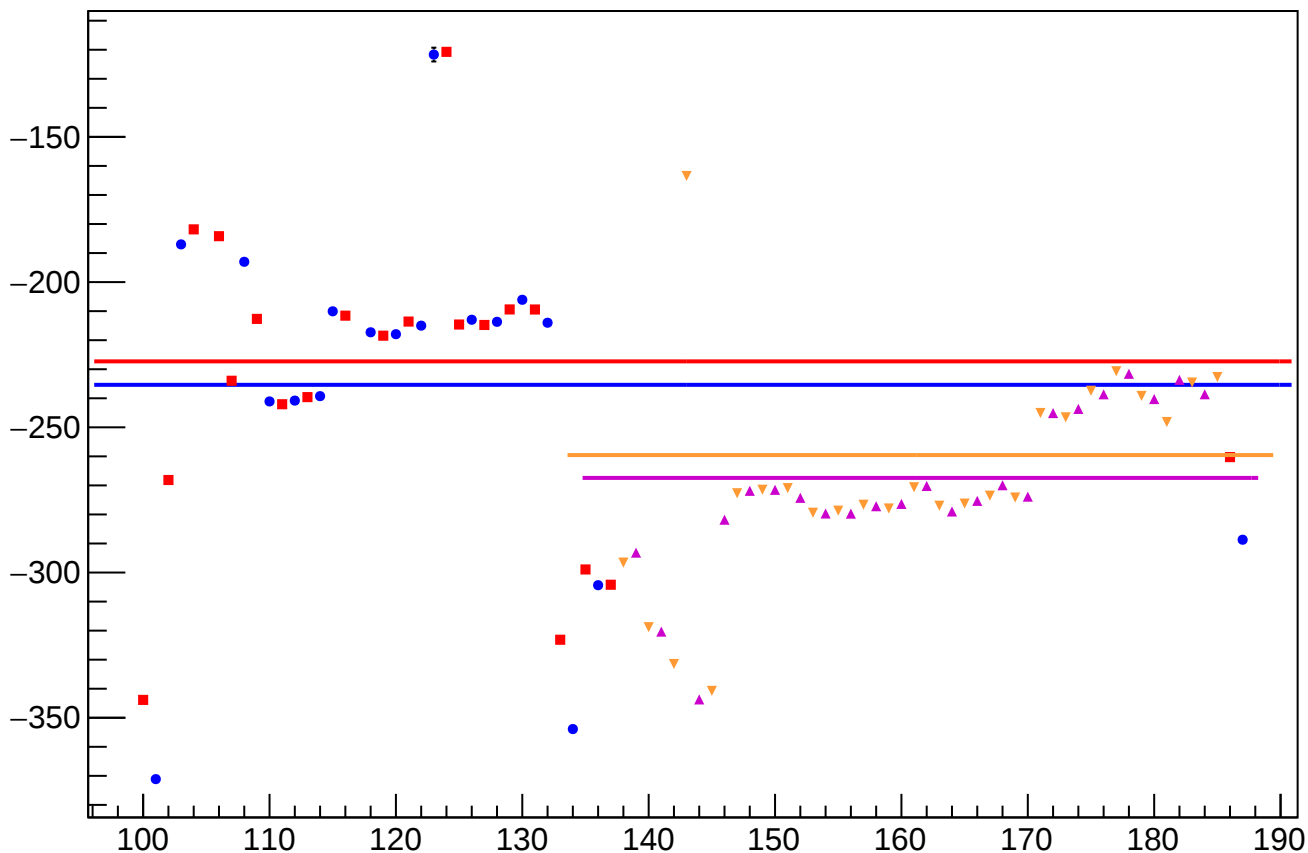
Right: 140.433 $\pm$ 1.860 χ^2 /NDF: 1279.0/37

In: 144.532 $\pm$ 1.464 χ^2 /NDF: 1116.2/40

Out: 134.967 $\pm$ 1.389 χ^2 /NDF: 1365.1/44

All: 139.499 $\pm$ 1.008 χ^2 /NDF: 2503.7/85

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: -227.294+/-0.140 χ^2/NDF : 100152.6/19

Left In: -267.417+/-0.082 χ^2/NDF : 98035.5/22

Left: -263.361+/-0.057 χ^2/NDF : 341051.4/47

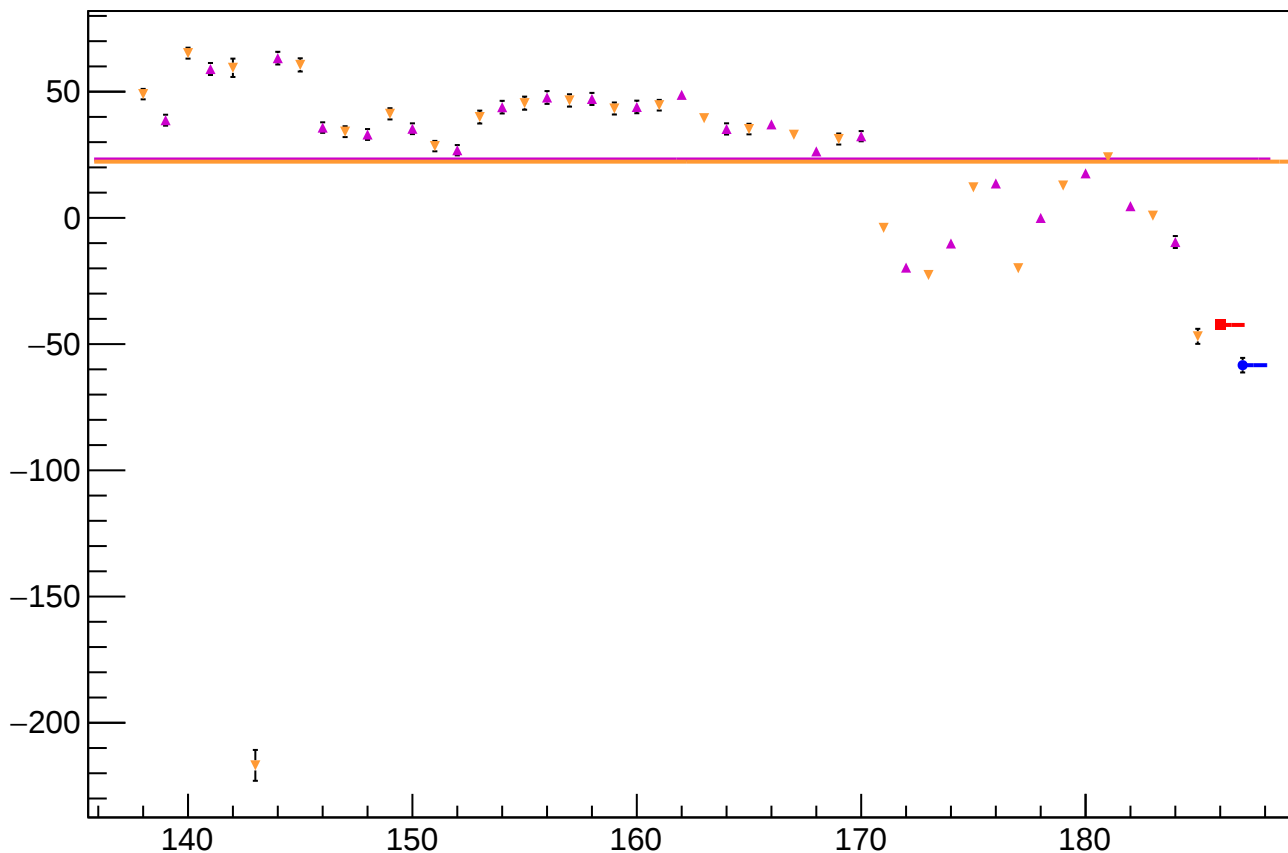
Right: -231.108+/-0.102 χ^2/NDF : 248775.9/37

In: -259.940+/-0.072 χ^2/NDF : 281016.2/40

Out: -251.756+/-0.069 χ^2/NDF : 378620.9/44

All: -255.694+/-0.050 χ^2/NDF : 666431.0/85

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: -42.407 ± 1.746 χ^2/NDF : 0.0/0

Left In: 23.136 ± 0.401 χ^2/NDF : 2744.7/22

Left: 22.705 ± 0.283 χ^2/NDF : 7918.0/47

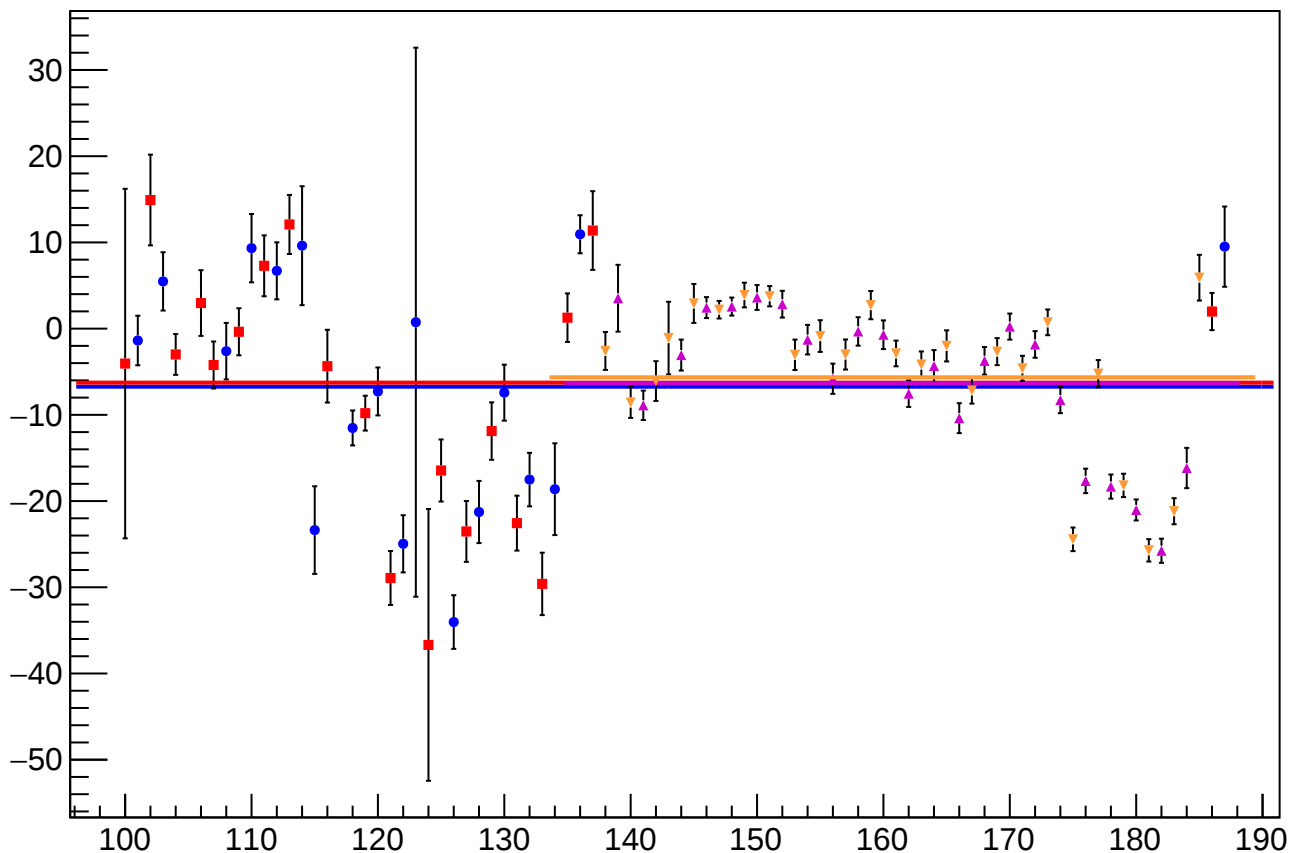
Right: -46.673 ± 1.494 χ^2/NDF : 22.3/1

In: 21.593 ± 0.398 χ^2/NDF : 3525.3/23

Out: 19.072 ± 0.389 χ^2/NDF : 6475.6/25

All: 20.304 ± 0.278 χ^2/NDF : 10021.4/49

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: -6.261 ± 0.718 χ^2/NDF : 271.4/19

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

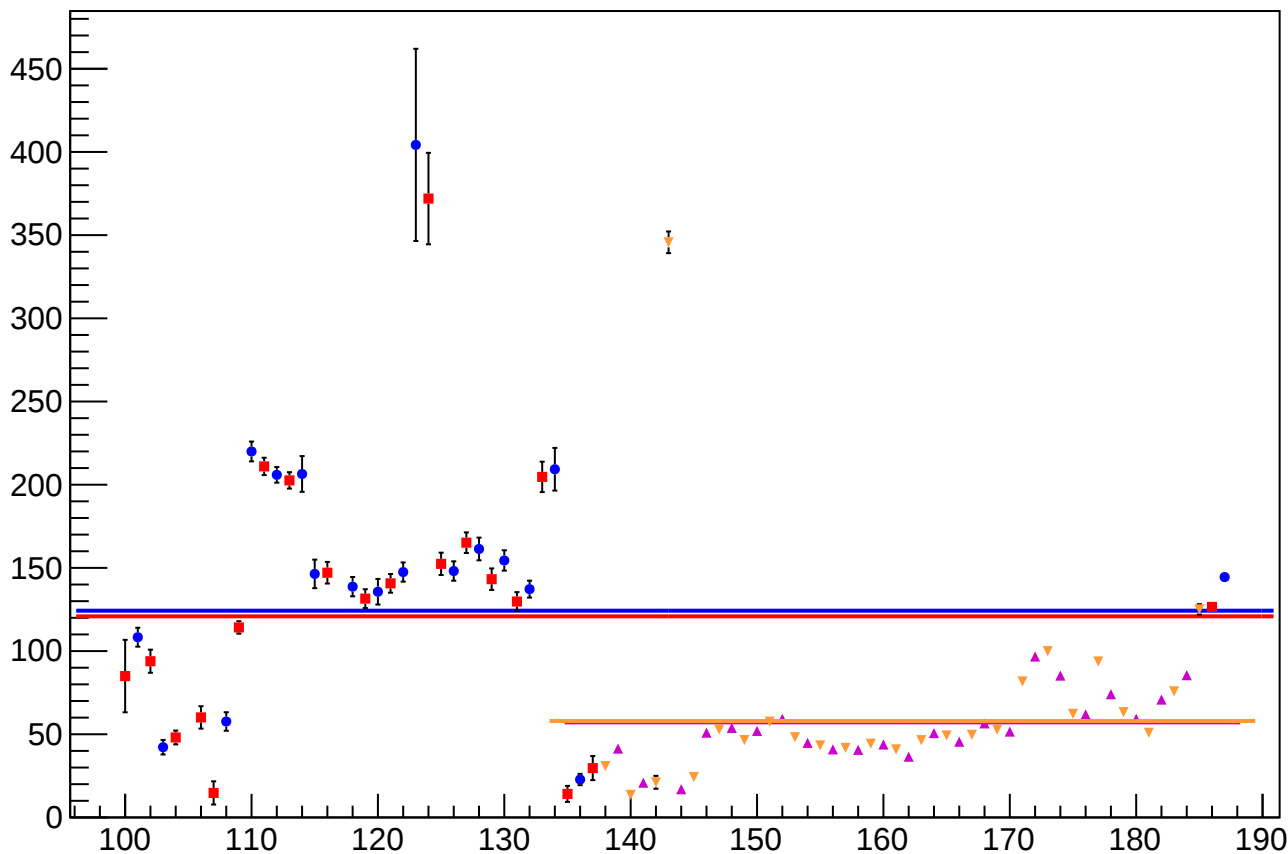
Right: -6.478 ± 0.528 χ^2/NDF : 561.7/37

In: -6.394 ± 0.297 χ^2/NDF : 1073.2/40

Out: -5.742 ± 0.289 χ^2/NDF : 1165.8/44

All: -6.059 ± 0.207 χ^2/NDF : 2241.5/85

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 124.273 $\pm$ 1.218 χ^2 /NDF: 2257.4/17

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 120.885 $\pm$ 0.977 χ^2 /NDF: 2167.3/19

Left In: 57.139 $\pm$ 0.400 χ^2 /NDF:1803.4/22

Left: 57.566 $\pm$ 0.282 χ^2 /NDF: 6441.4/47

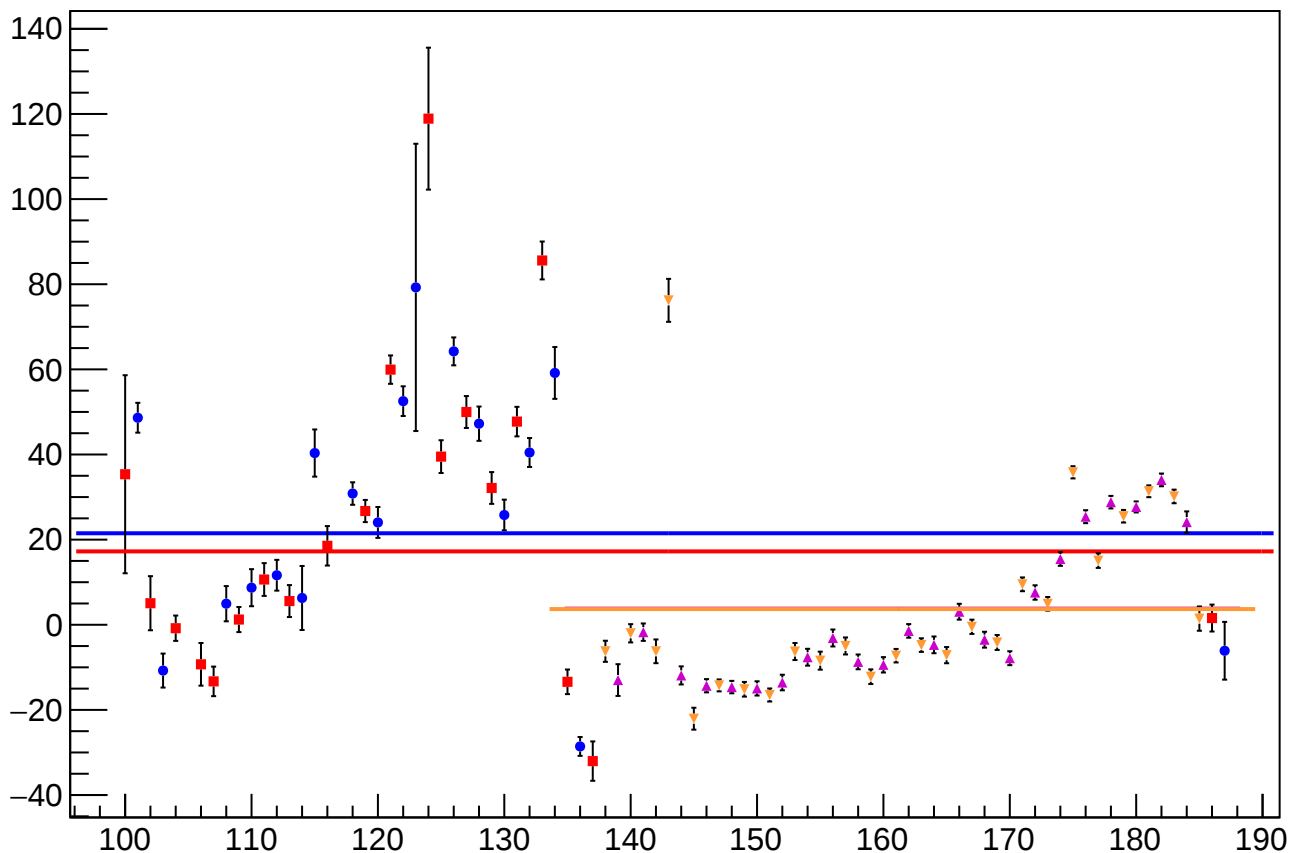
Right: 122.211 $\pm$ 0.762 χ^2 /NDF: 4429.5/37

In: 63.661 $\pm$ 0.380 χ^2 /NDF:6803.5/40

Out: 66.943 $\pm$ 0.369 χ^2 /NDF:10358.7/44

All: 65.351 $\pm$ 0.264 χ^2 /NDF: 17200.7/85

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 21.495 $\pm$ 0.892 χ^2 /NDF: 1078.1/17

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 17.237 $\pm$ 0.841 χ^2 /NDF: 1092.4/19

Left In: 3.786 $\pm$ 0.362 χ^2 /NDF:2198.8/22

Left: 3.734 $\pm$ 0.254 χ^2 /NDF: 4740.5/47

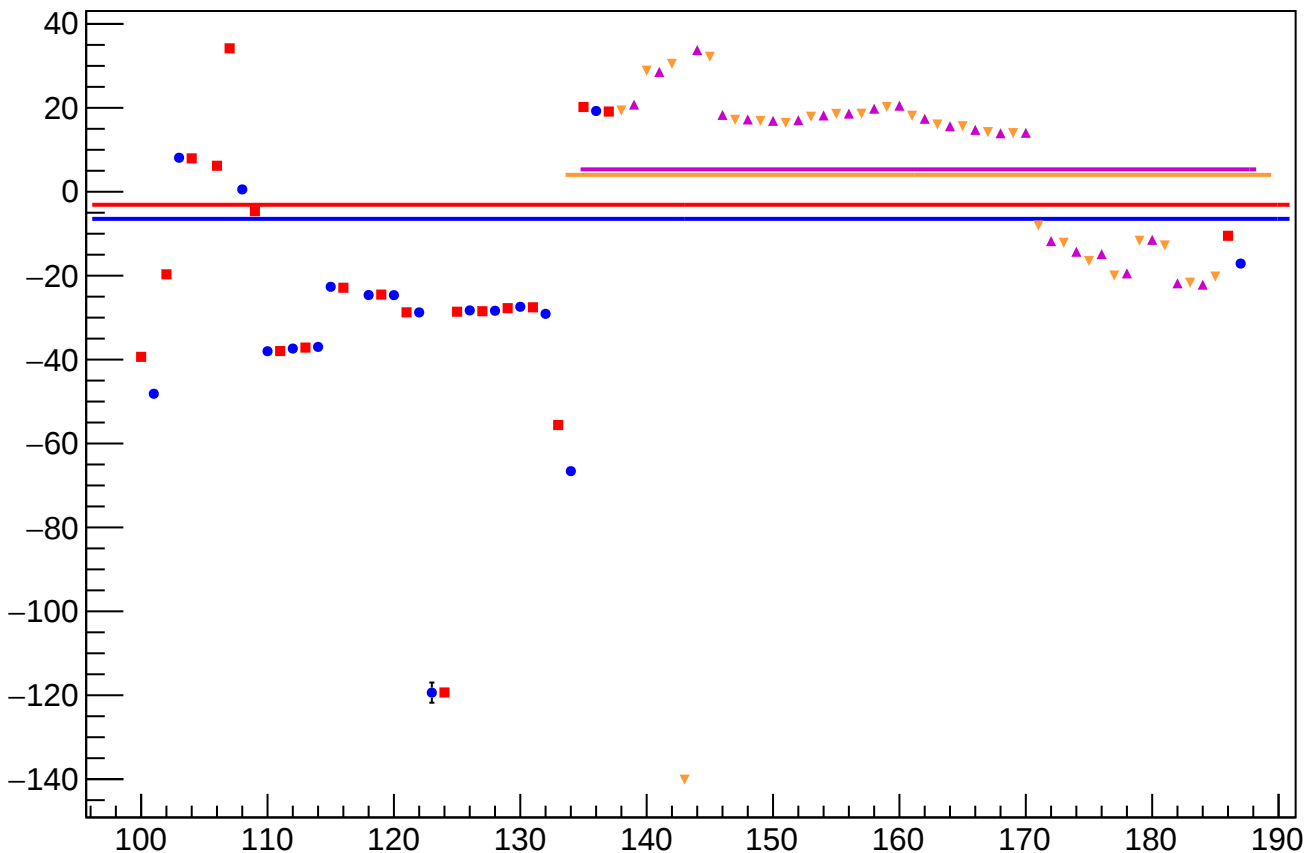
Right: 19.240 $\pm$ 0.612 χ^2 /NDF: 2182.5/37

In: 6.285 $\pm$ 0.335 χ^2 /NDF:3615.1/40

Out: 5.751 $\pm$ 0.328 χ^2 /NDF:3854.2/44

All: 6.012 $\pm$ 0.235 χ^2 /NDF: 7470.5/85

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.460 ± 0.046 χ^2/NDF : 264882.7/17

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -3.103 ± 0.045 χ^2/NDF : 266158.9/19

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

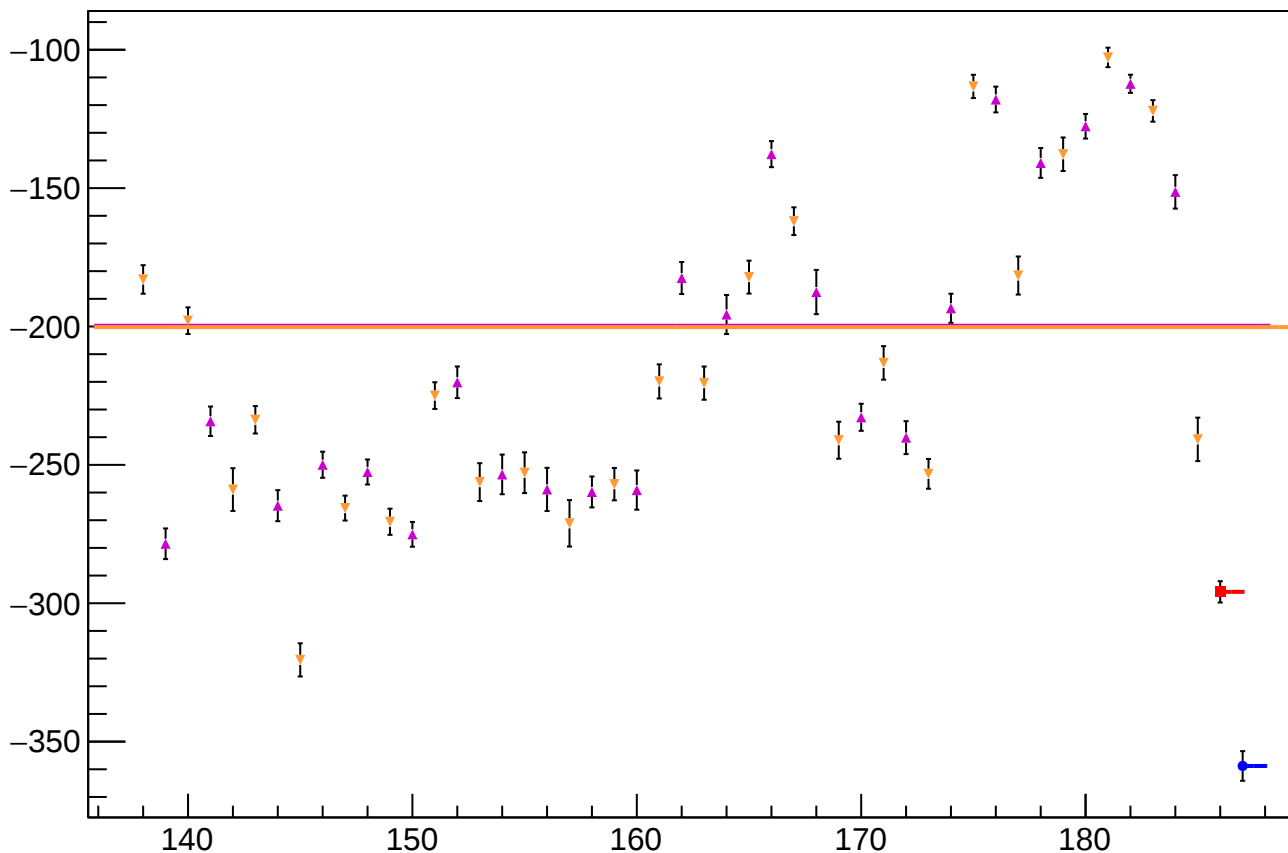
Right: -4.738 ± 0.032 χ^2/NDF : 533771.3/37

In: 4.003 ± 0.015 χ^2/NDF : 1400954.5/40

Out: 3.188 ± 0.015 χ^2/NDF : 1671590.2/44

All: 3.593 ± 0.011 χ^2/NDF : 3073940.3/85

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -358.804 ± 5.356 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$
 Right Out: -295.882 ± 3.855 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -199.739 ± 1.097 $\chi^2/\text{NDF}: 2968.0/22$

Left: -199.988 ± 0.769 $\chi^2/\text{NDF}: 6193.2/47$

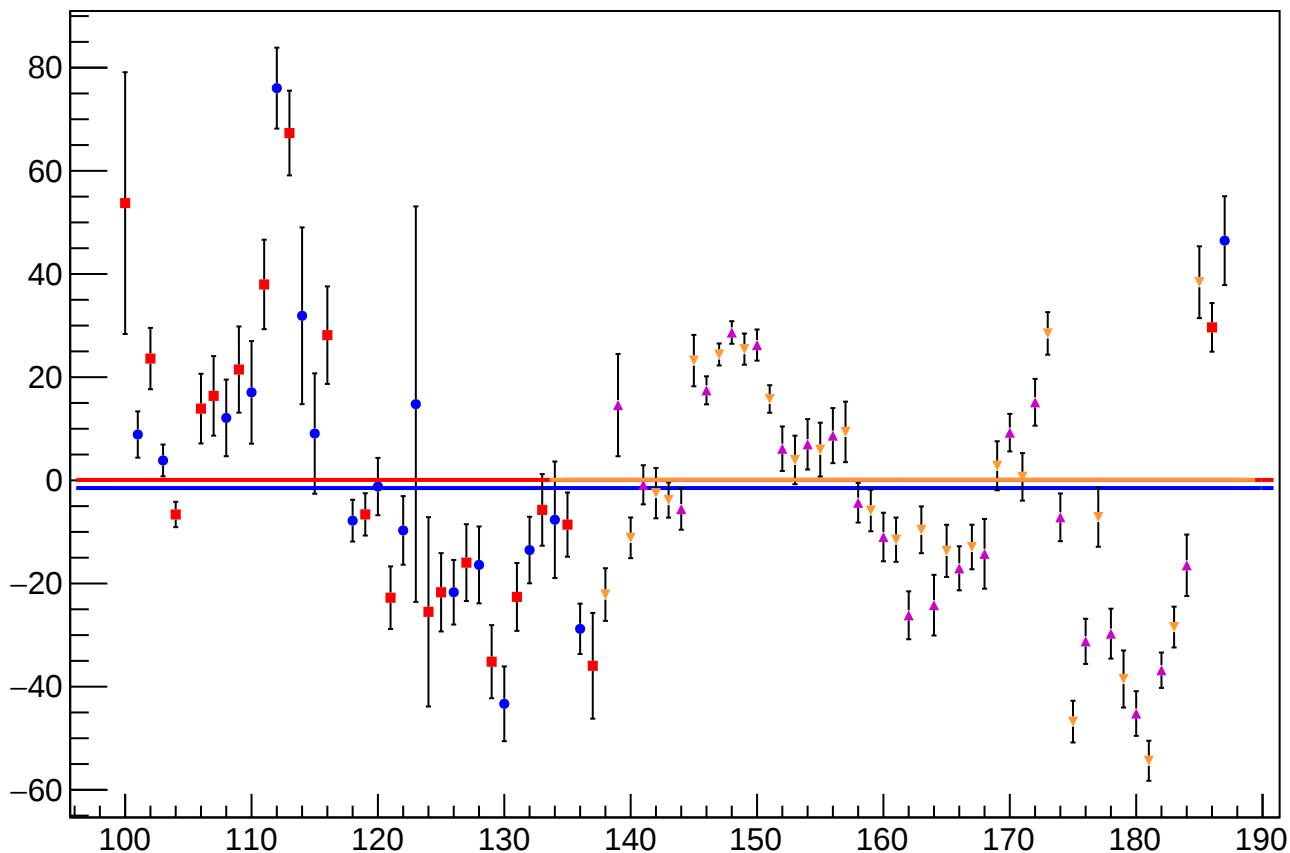
Right: -317.358 ± 3.129 $\chi^2/\text{NDF}: 90.9/1$

In: -206.148 ± 1.075 $\chi^2/\text{NDF}: 3814.5/23$

Out: -207.162 ± 1.038 $\chi^2/\text{NDF}: 3796.0/25$

All: -206.673 ± 0.747 $\chi^2/\text{NDF}: 7611.0/49$

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: 0.076 ± 1.340 χ^2/NDF : 260.3/19

Left In: 0.097 ± 0.838 χ^2/NDF : 715.5/22

Left: 0.103 ± 0.581 χ^2/NDF : 1546.7/47

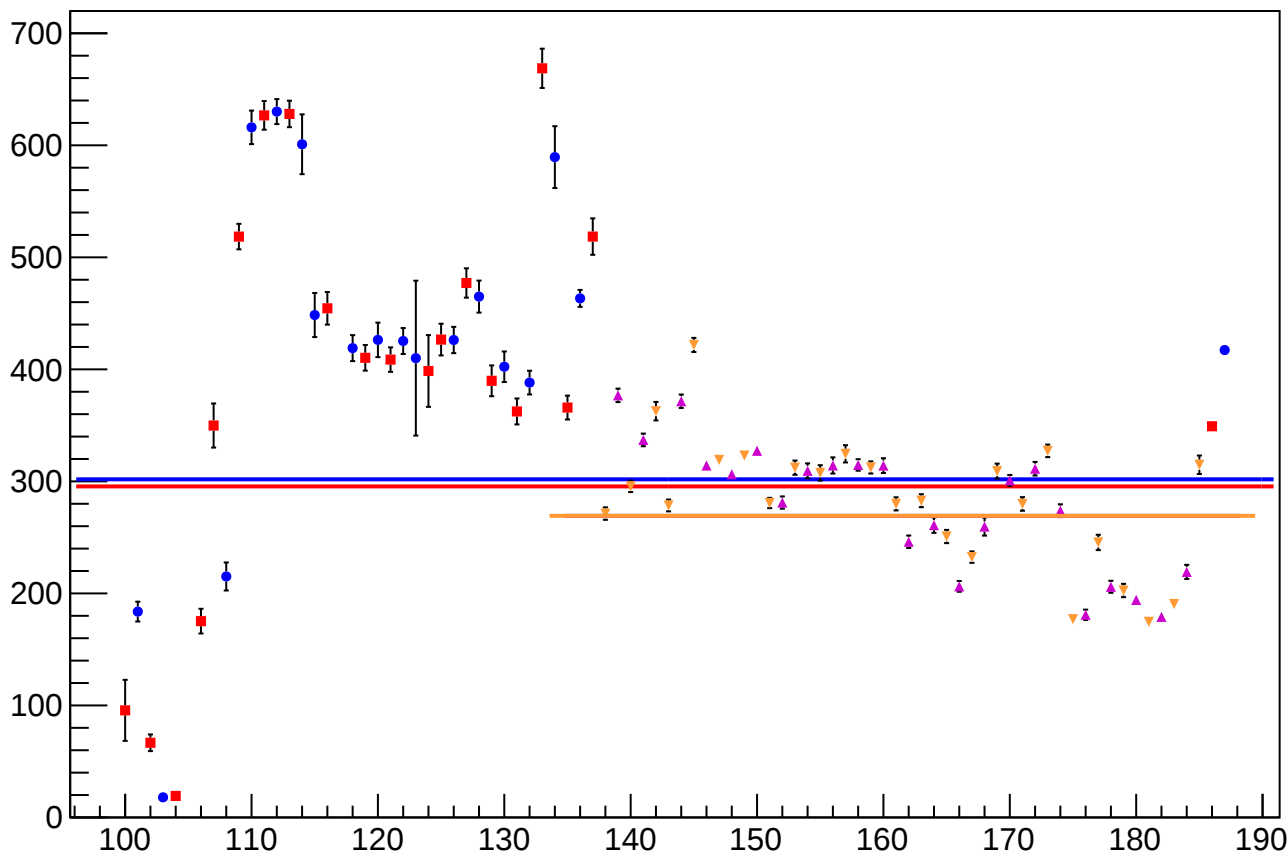
Right: -0.648 ± 0.984 χ^2/NDF : 496.3/37

In: -0.302 ± 0.725 χ^2/NDF : 951.7/40

Out: 0.100 ± 0.691 χ^2/NDF : 1091.5/44

All: -0.091 ± 0.500 χ^2/NDF : 2043.4/85

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: 295.507 $\pm$ 1.921 χ^2 /NDF: 8695.6/19

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

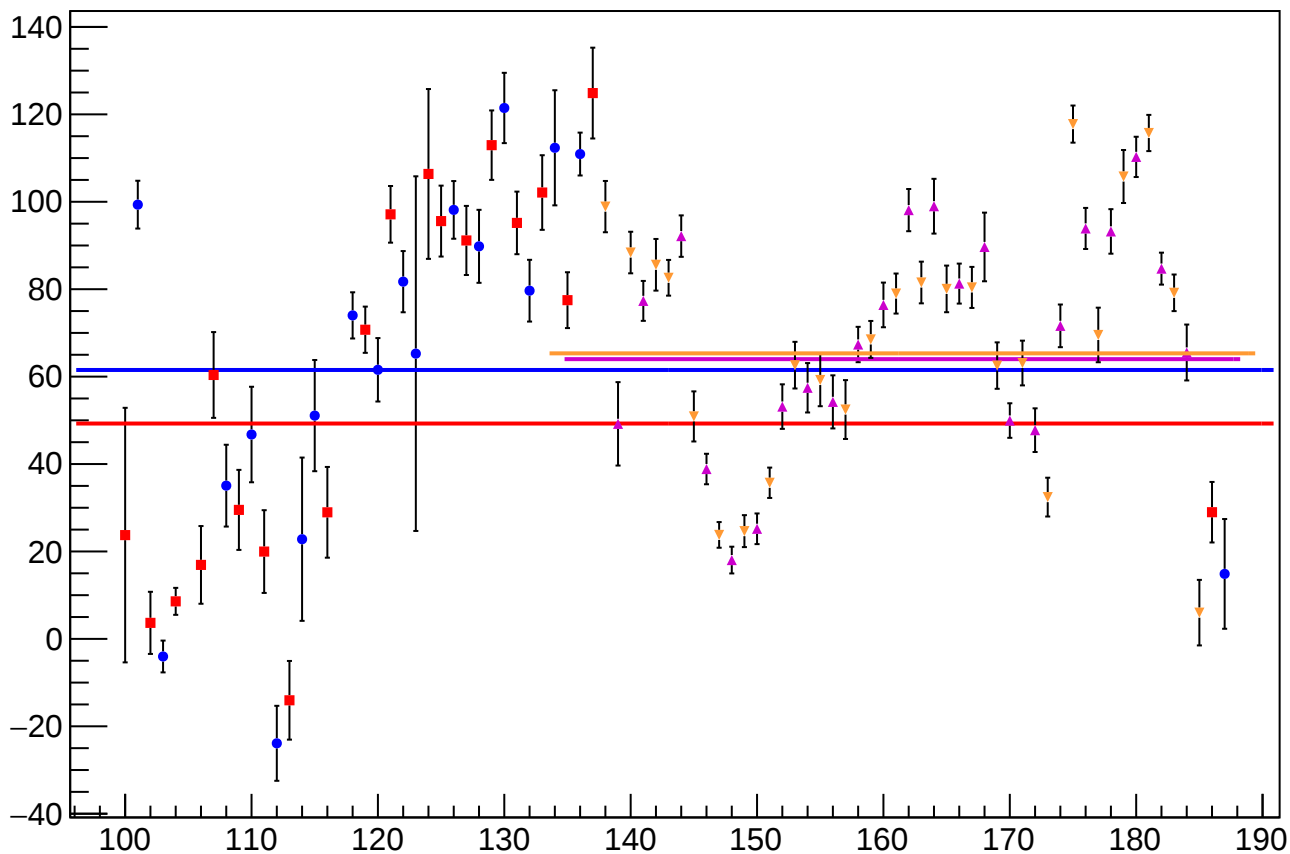
Right: 298.292 $\pm$ 1.438 χ^2 /NDF: 17222.9/37

In: 275.785 $\pm$ 0.974 χ^2 /NDF:11873.7/40

Out: 275.556 $\pm$ 0.940 χ^2 /NDF:11984.1/44

All: 275.666 $\pm$ 0.676 χ^2 /NDF: 23857.8/85

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: 49.269 ± 1.600 $\chi^2/\text{NDF}: 662.9/19$

Left In: 63.999 ± 0.963 $\chi^2/\text{NDF}: 799.5/22$

Left: 64.681 ± 0.671 $\chi^2/\text{NDF}: 1807.5/47$

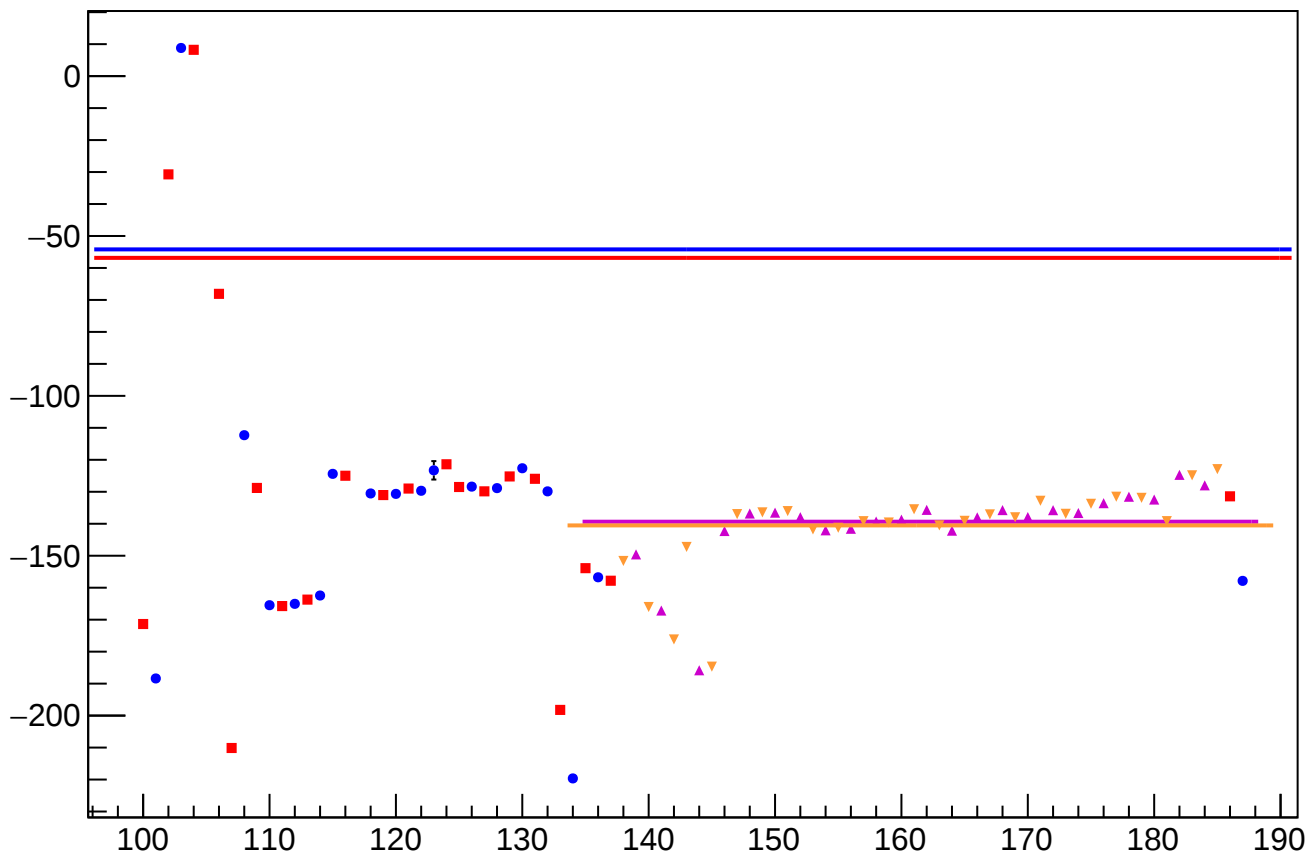
Right: 55.089 ± 1.159 $\chi^2/\text{NDF}: 1425.7/37$

In: 63.387 ± 0.836 $\chi^2/\text{NDF}: 1536.0/40$

Out: 61.237 ± 0.807 $\chi^2/\text{NDF}: 1745.1/44$

All: 62.274 ± 0.580 $\chi^2/\text{NDF}: 3284.5/85$

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: -56.842 ± 0.071 $\chi^2/\text{NDF}: 988595.4/19$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

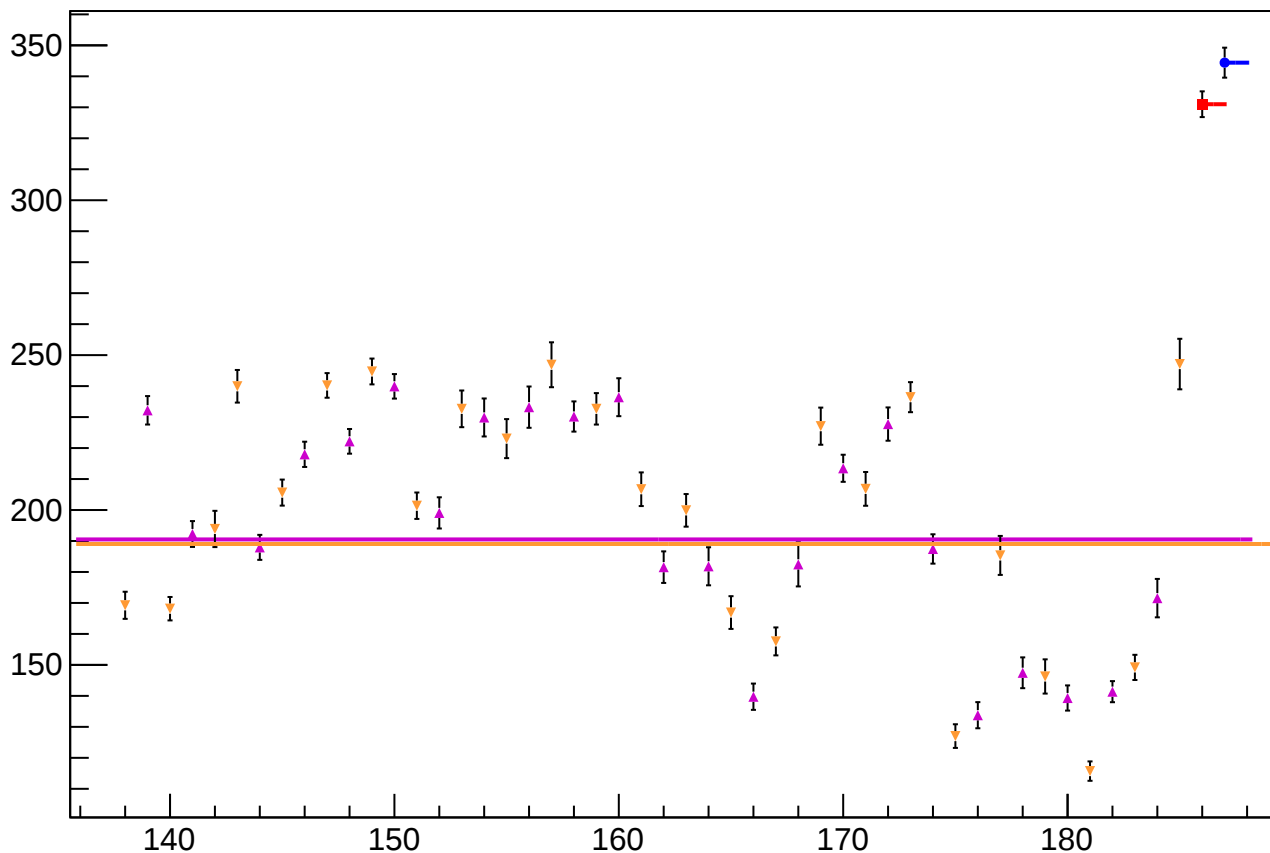
Right: -55.495 ± 0.050 $\chi^2/\text{NDF}: 2234672.3/37$

In: -114.501 ± 0.038 $\chi^2/\text{NDF}: 2352925.6/40$

Out: -116.998 ± 0.038 $\chi^2/\text{NDF}: 2057595.3/44$

All: -115.753 ± 0.027 $\chi^2/\text{NDF}: 4412700.4/85$

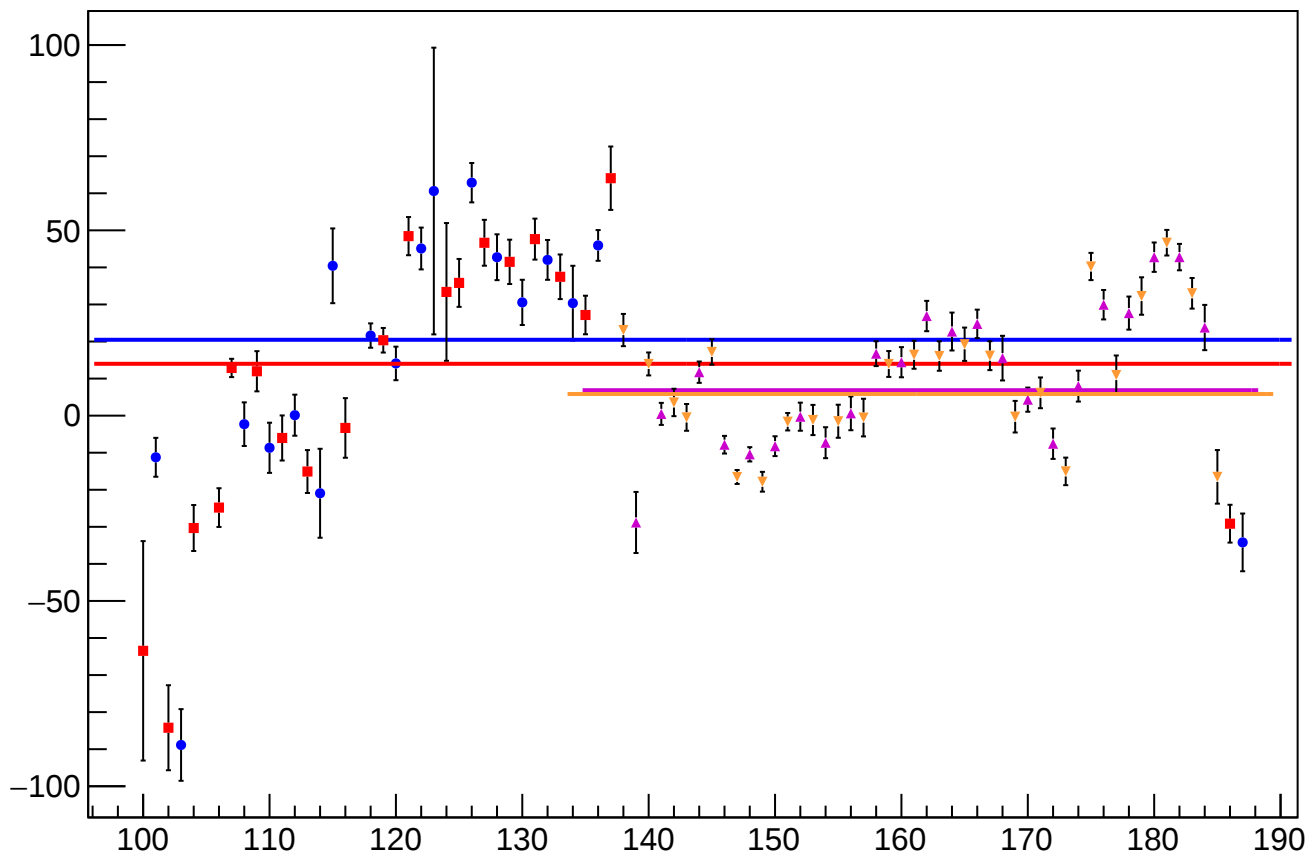
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



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: 330.994 $\pm$ 4.156 χ^2 /NDF: 0.0/0
 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: 336.687 $\pm$ 3.153 χ^2 /NDF: 4.4/1
 In: 196.508 $\pm$ 0.956 χ^2 /NDF:2384.3/23
 Out: 196.162 $\pm$ 0.932 χ^2 /NDF:3089.1/25
 All: 196.331 $\pm$ 0.667 χ^2 /NDF: 5473.5/49

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 20.472 $\pm$ 1.376 χ^2 /NDF: 432.8/17

Left Out: 5.834 $\pm$ 0.712 χ^2 /NDF: 652.2/24

Right Out: 13.990 $\pm$ 1.194 χ^2 /NDF: 501.7/19

Left In: 6.862 $\pm$ 0.736 χ^2 /NDF: 522.7/22

Left: 6.331 $\pm$ 0.512 χ^2 /NDF: 1176.0/47

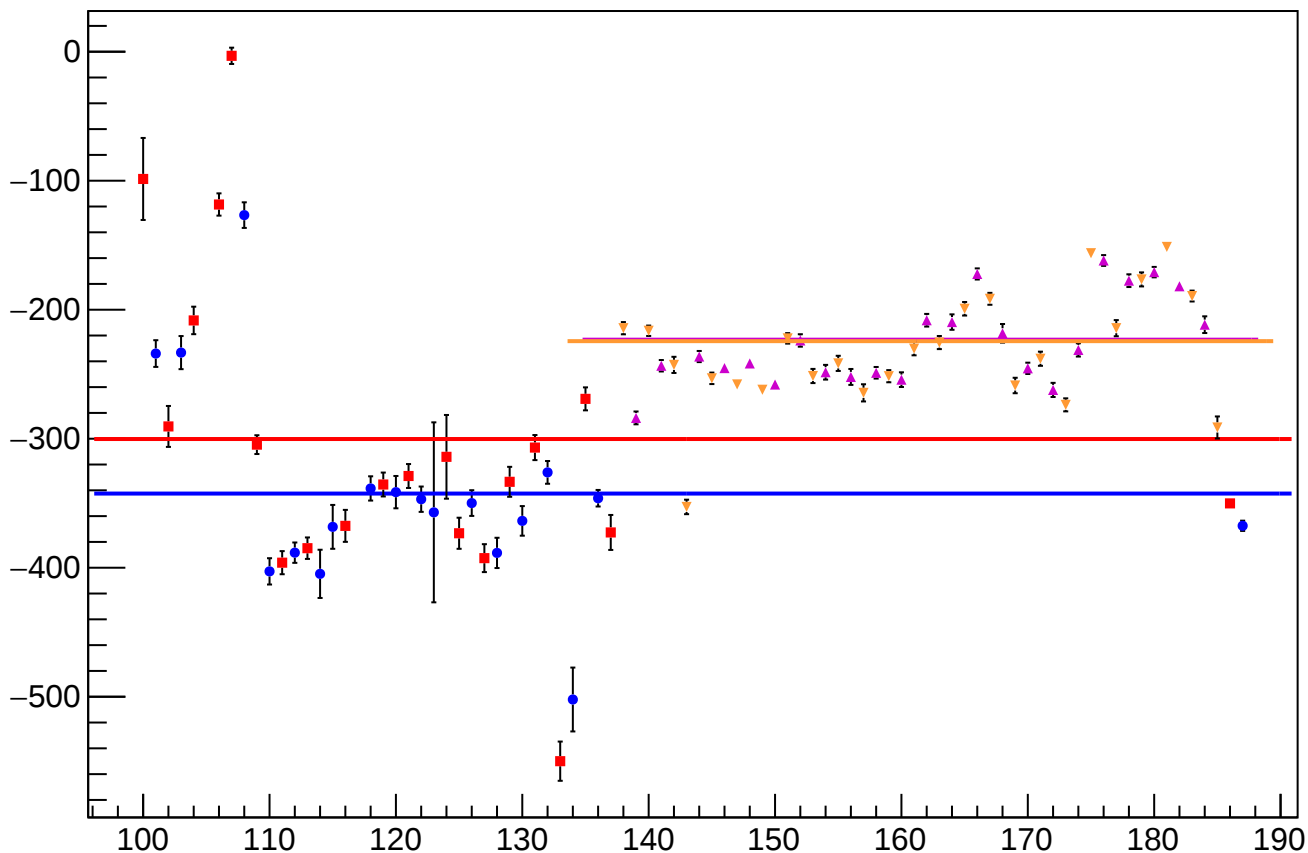
Right: 16.775 $\pm$ 0.902 χ^2 /NDF: 947.2/37

In: 9.891 $\pm$ 0.649 χ^2 /NDF: 1031.6/40

Out: 7.975 $\pm$ 0.612 χ^2 /NDF: 1188.3/44

All: 8.876 $\pm$ 0.445 χ^2 /NDF: 2224.6/85

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: -300.232 ± 1.905 χ^2/NDF : 3697.0/19

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

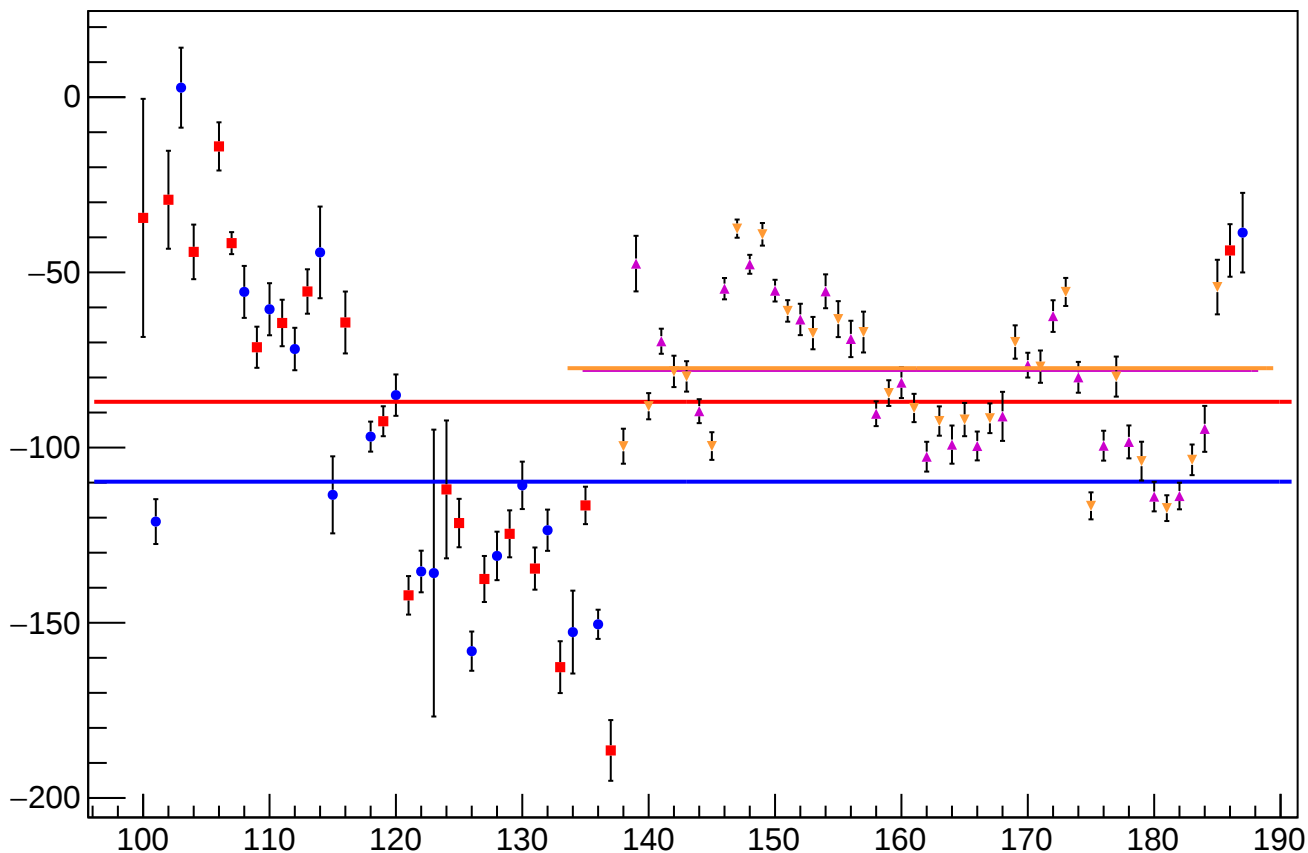
Right: -318.653 ± 1.431 χ^2/NDF : 4753.8/37

In: -243.098 ± 0.885 χ^2/NDF : 4635.4/40

Out: -239.632 ± 0.854 χ^2/NDF : 7067.7/44

All: -241.305 ± 0.615 χ^2/NDF : 11711.0/85

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: -86.935 ± 1.409 χ^2/NDF : 1003.1/19

Left In: -77.838 ± 0.849 χ^2/NDF : 622.8/22

Left: -77.584 ± 0.592 χ^2/NDF : 1469.2/47

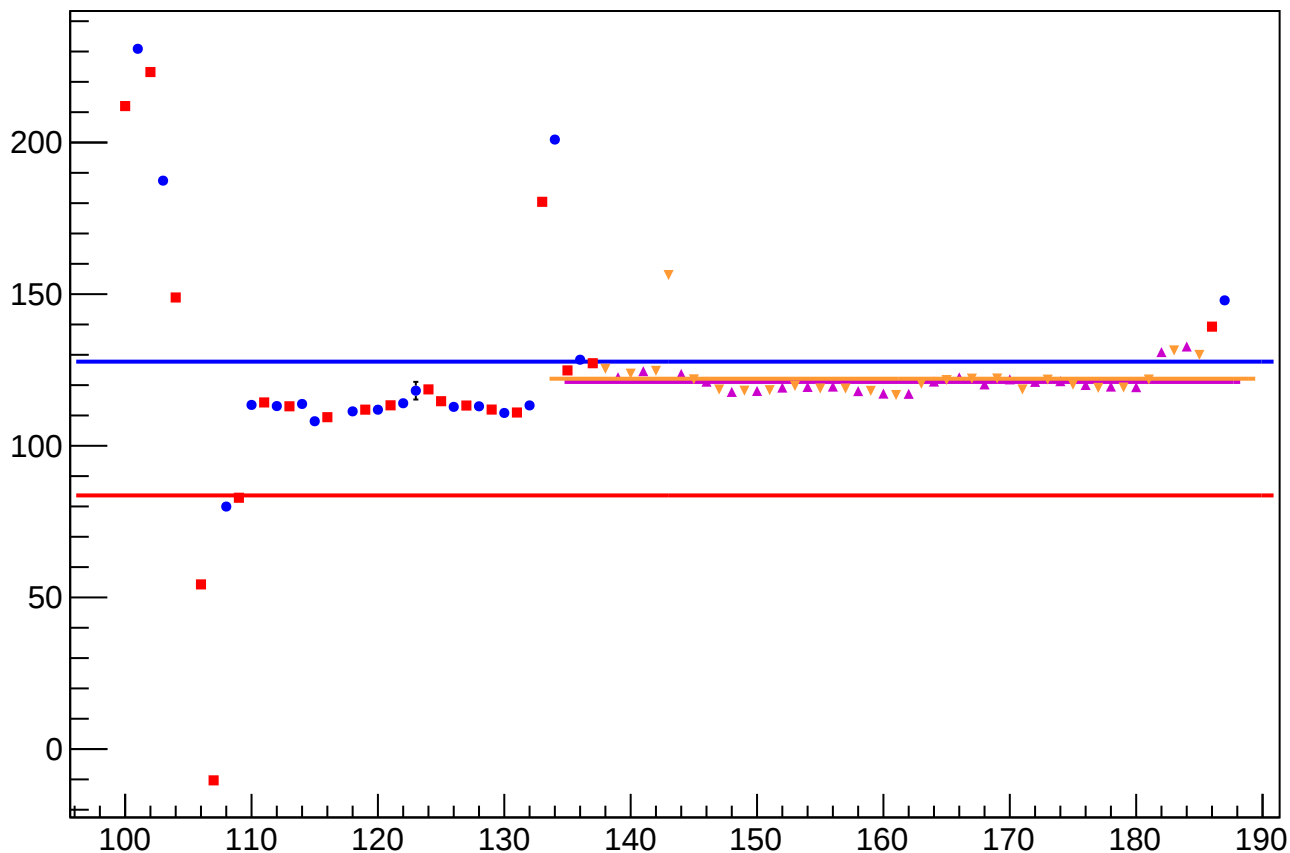
Right: -97.000 ± 1.053 χ^2/NDF : 1663.1/37

In: -84.944 ± 0.748 χ^2/NDF : 1481.9/40

Out: -79.798 ± 0.713 χ^2/NDF : 1883.8/44

All: -82.247 ± 0.516 χ^2/NDF : 3390.5/85

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: 83.635 $\pm$ 0.075 χ^2 /NDF: 775599.3/19

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

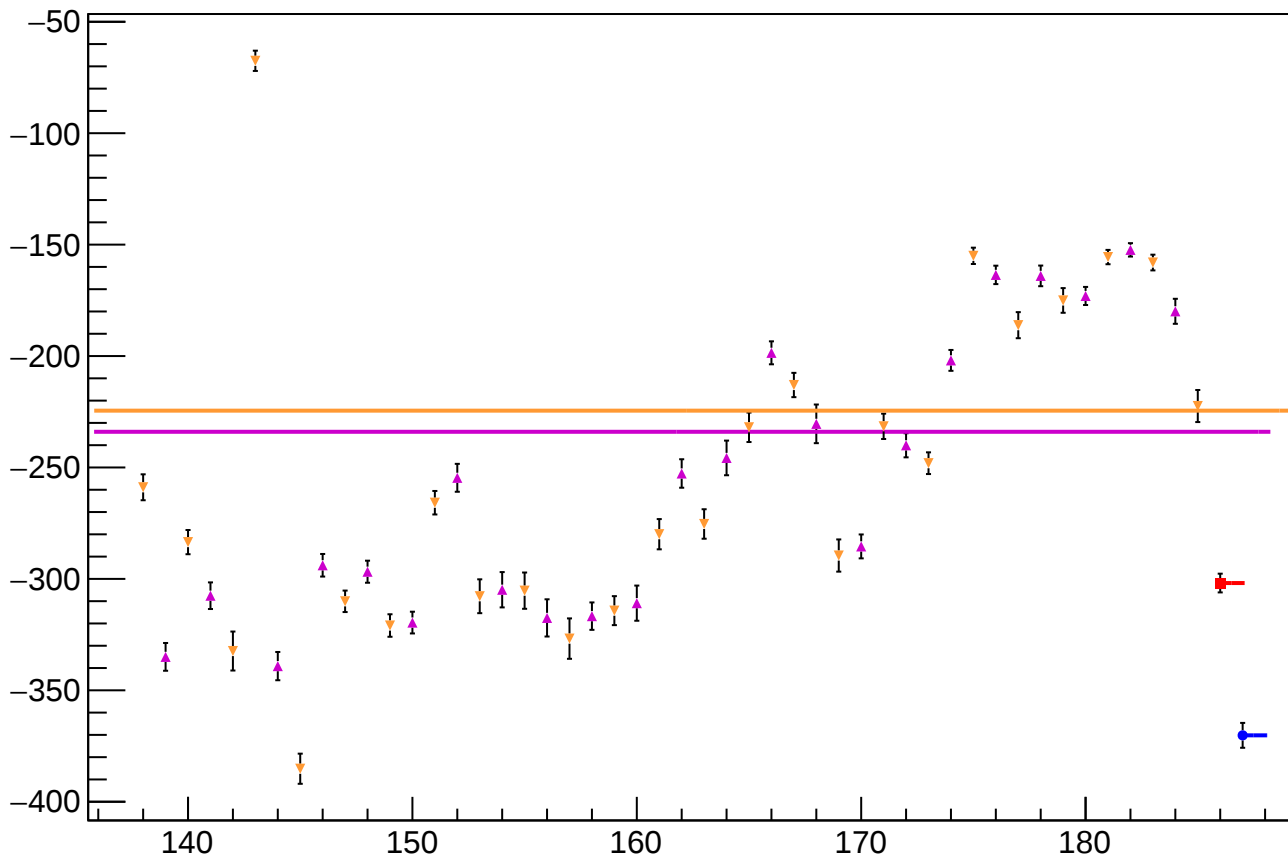
Right: 101.938 $\pm$ 0.057 χ^2 /NDF: 1109015.0/37

In: 122.173 $\pm$ 0.036 χ^2 /NDF: 201405.6/40

Out: 113.739 $\pm$ 0.035 χ^2 /NDF: 1013684.9/44

All: 117.790 $\pm$ 0.025 χ^2 /NDF: 1243205.3/85

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: -301.864 ± 4.204 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$

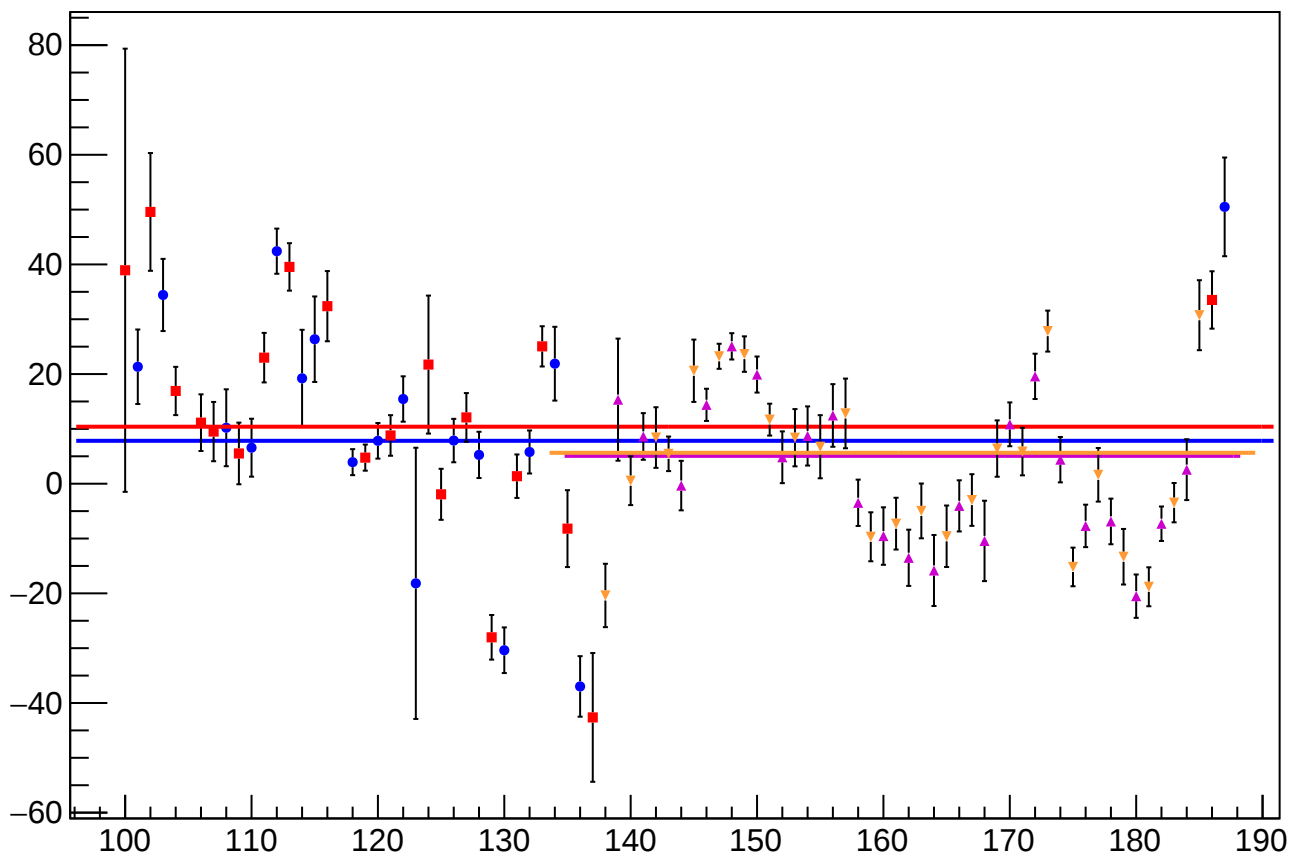
Right: -326.586 ± 3.358 $\chi^2/\text{NDF}: 95.6/1$

In: -239.153 ± 1.087 $\chi^2/\text{NDF}: 4110.9/23$

Out: -229.283 ± 1.045 $\chi^2/\text{NDF}: 5188.3/25$

All: -234.023 ± 0.754 $\chi^2/\text{NDF}: 9342.1/49$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.824 ± 1.097 χ^2/NDF : 282.9/17

Left Out: 5.638 ± 0.828 χ^2/NDF : 313.6/24

Right Out: 10.399 ± 1.051 χ^2/NDF : 252.6/19

Left In: 5.077 ± 0.869 χ^2/NDF : 239.7/22

Left: 5.371 ± 0.599 χ^2/NDF : 553.6/47

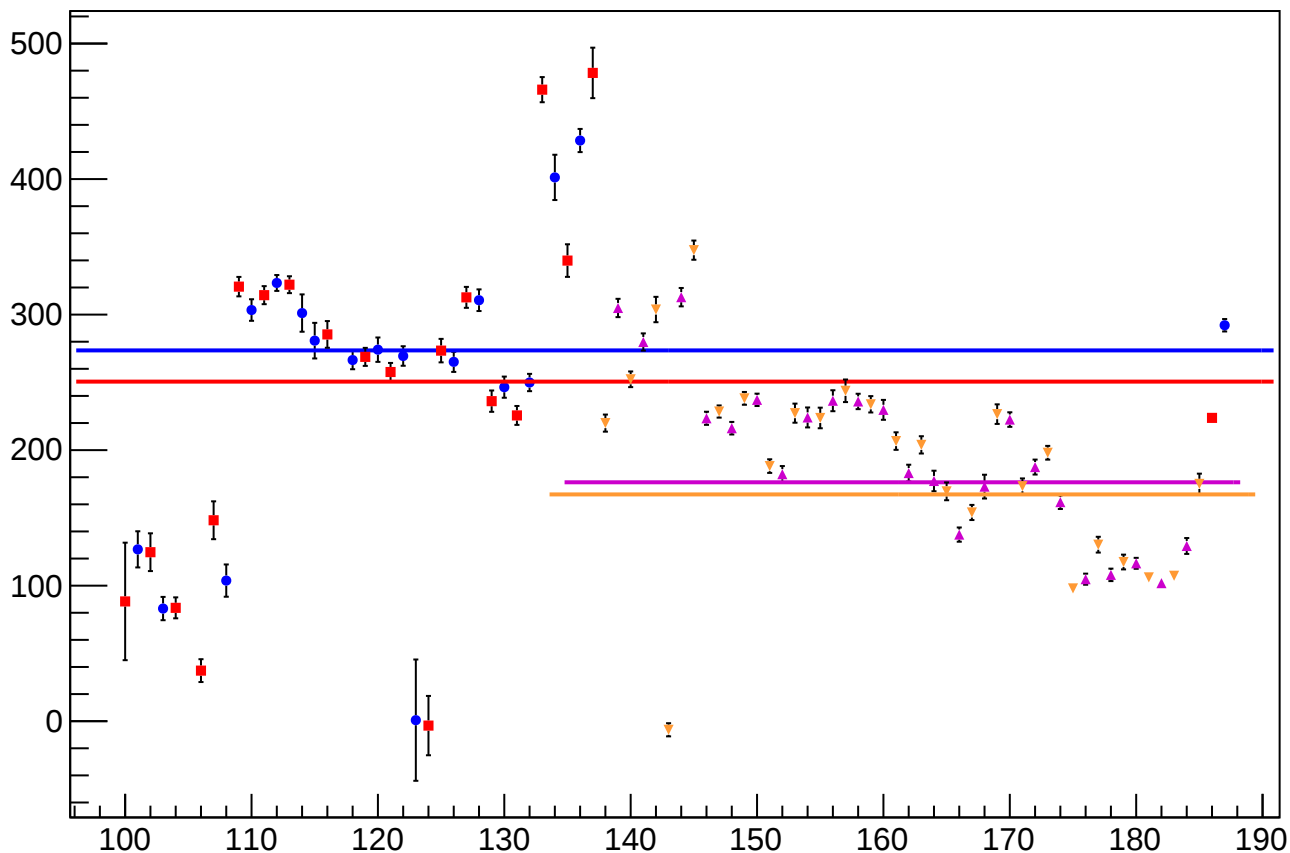
Right: 9.166 ± 0.759 χ^2/NDF : 538.4/37

In: 6.136 ± 0.681 χ^2/NDF : 526.5/40

Out: 7.461 ± 0.650 χ^2/NDF : 578.9/44

All: 6.829 ± 0.470 χ^2/NDF : 1107.4/85

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 273.585+/-1.905 χ^2/NDF : 1395.6/17

Left Out: 167.327+/-1.082 χ^2/NDF : 4454.5/24

Right Out: 250.559+/-1.707 χ^2/NDF : 2625.7/19

Left In: 176.272+/-1.106 χ^2/NDF : 3169.5/22

Left: 171.704+/-0.774 χ^2/NDF : 7657.4/47

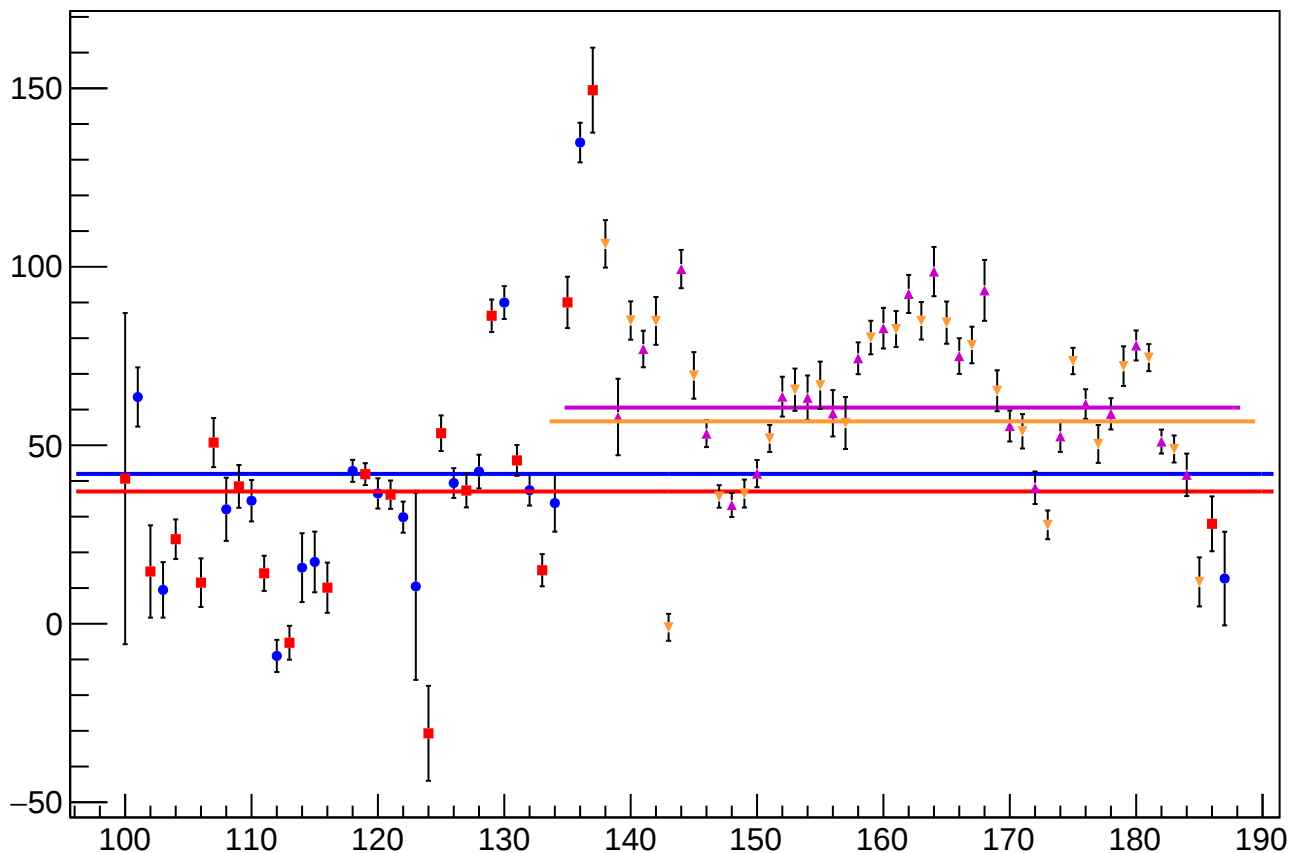
Right: 260.810+/-1.271 χ^2/NDF : 4102.4/37

In: 200.794+/-0.956 χ^2/NDF : 6517.0/40

Out: 191.208+/-0.914 χ^2/NDF : 8776.5/44

All: 195.785+/-0.661 χ^2/NDF : 15346.0/85

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: 37.053 ± 1.221 χ^2/NDF : 472.0/19

Left In: 60.555 ± 0.990 χ^2/NDF : 335.6/22

Left: 58.548 ± 0.686 χ^2/NDF : 1034.0/47

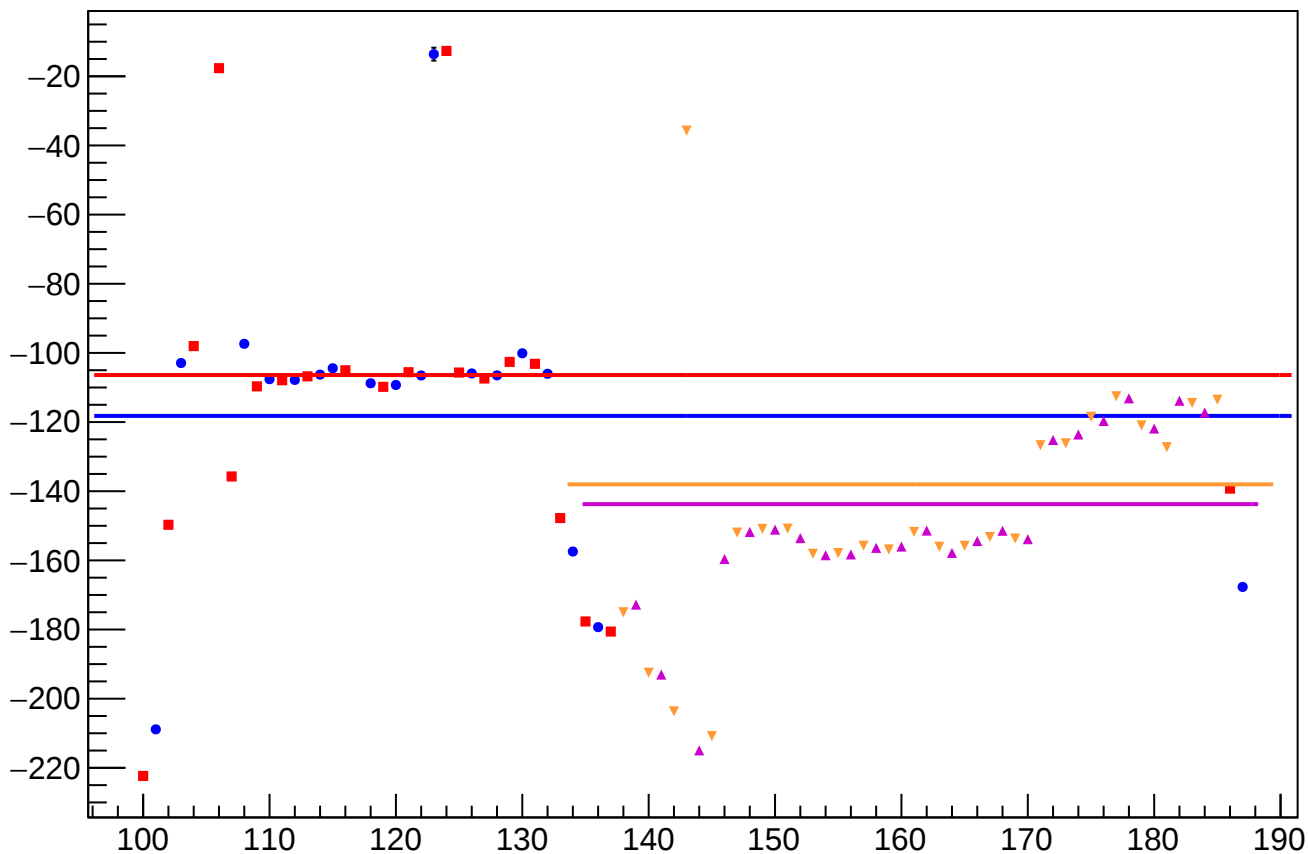
Right: 39.418 ± 0.880 χ^2/NDF : 1057.9/37

In: 53.536 ± 0.781 χ^2/NDF : 1046.8/40

Out: 49.273 ± 0.751 χ^2/NDF : 1323.3/44

All: 51.320 ± 0.541 χ^2/NDF : 2385.6/85

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -118.215+/-0.078 χ^2/NDF : 146363.1/17

Left Out: -138.008+/-0.045 χ^2/NDF : 565767.2/24

Right Out: -106.397+/-0.072 χ^2/NDF : 326894.5/19

Left In: -143.735+/-0.046 χ^2/NDF : 258408.3/22

Left: -140.811+/-0.032 χ^2/NDF : 832055.2/47

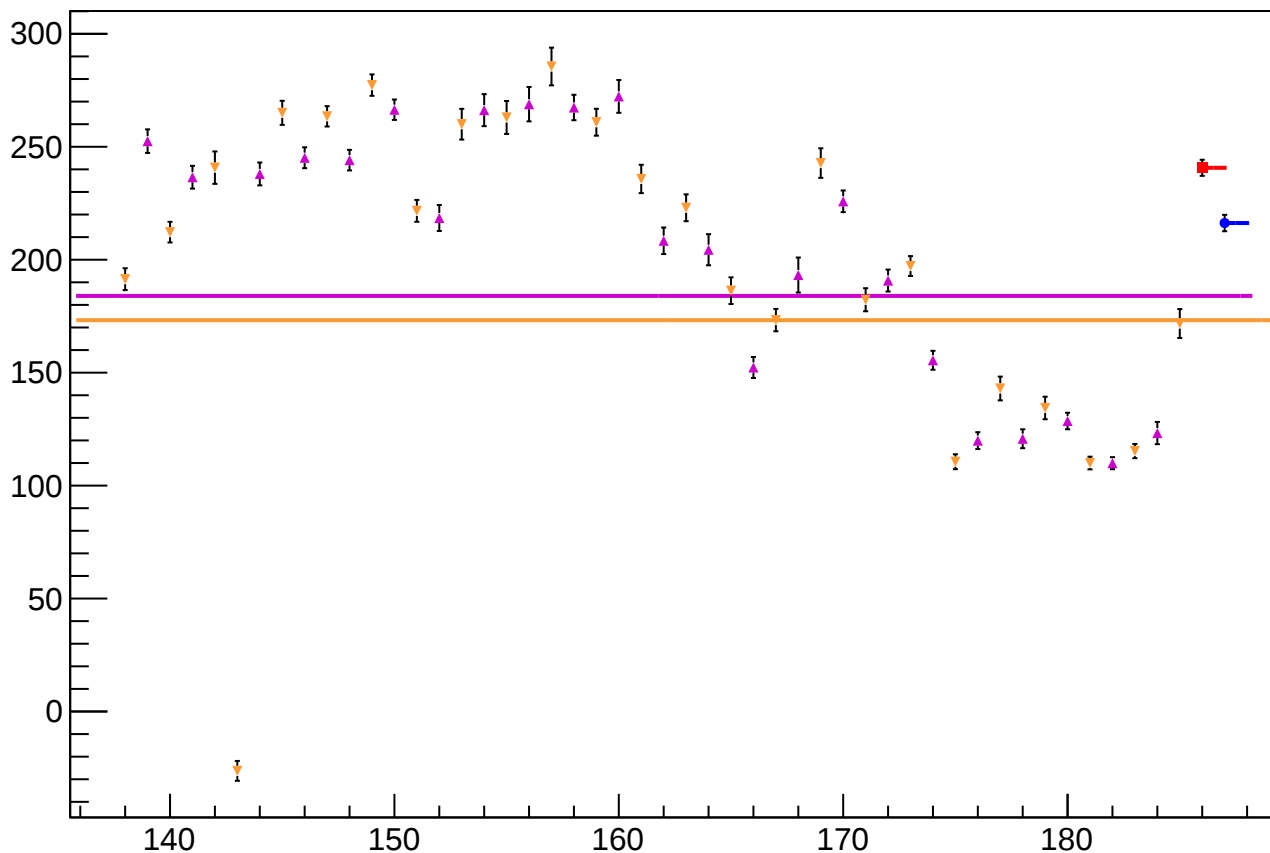
Right: -111.838+/-0.053 χ^2/NDF : 485575.4/37

In: -137.156+/-0.040 χ^2/NDF : 483784.6/40

Out: -129.137+/-0.038 χ^2/NDF : 1030360.1/44

All: -132.998+/-0.028 χ^2/NDF : 1535280.1/85

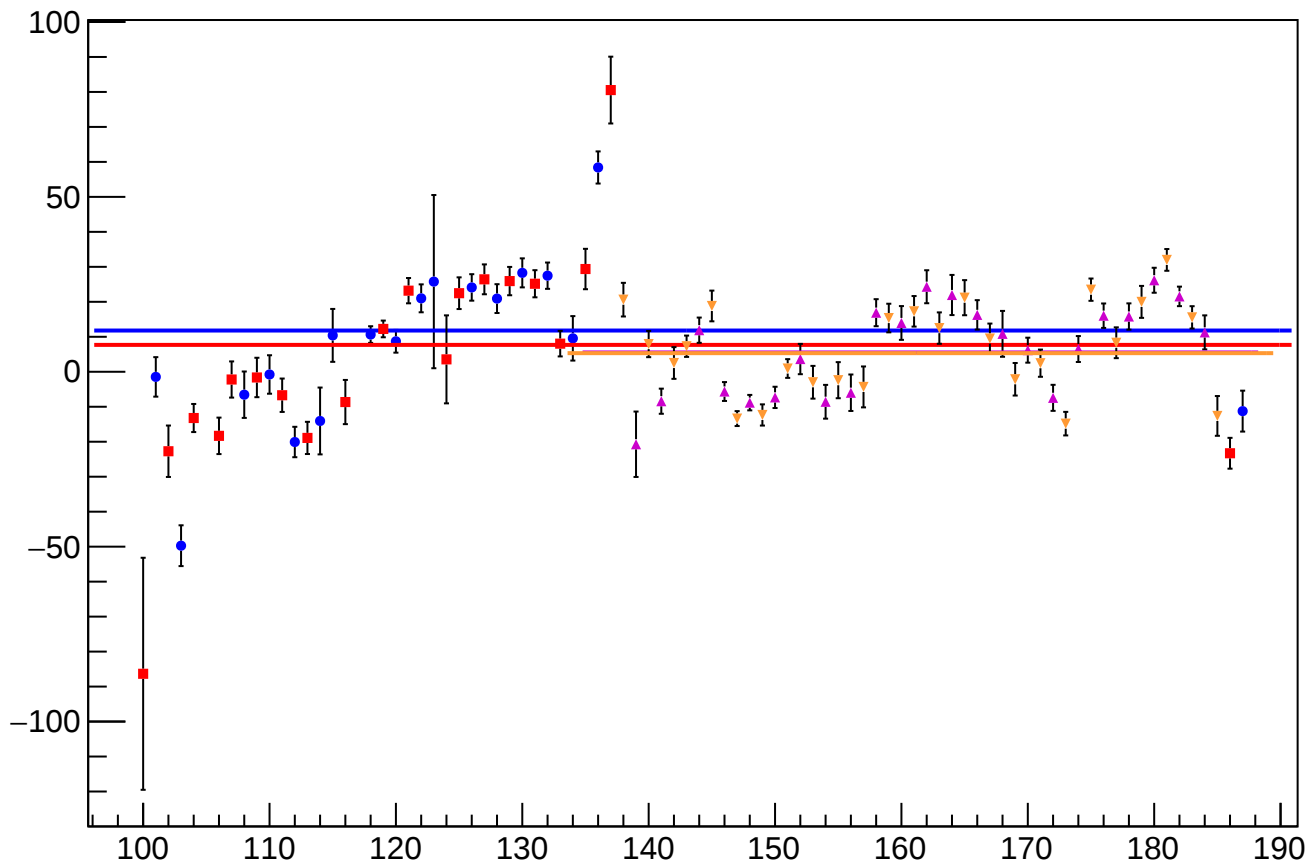
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



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: 240.702 $\pm$ 3.560 χ^2 /NDF: 0.0/0
 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: 228.714 $\pm$ 2.542 χ^2 /NDF: 23.1/1
 In: 186.220 $\pm$ 0.956 χ^2 /NDF:3687.1/23
 Out: 177.853 $\pm$ 0.932 χ^2 /NDF:6180.6/25
 All: 181.930 $\pm$ 0.667 χ^2 /NDF: 9907.0/49

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.790 ± 1.058 $\chi^2/\text{NDF}: 364.9/17$

Left Out: 5.321 ± 0.747 $\chi^2/\text{NDF}: 345.5/24$

Right Out: 7.686 ± 1.021 $\chi^2/\text{NDF}: 347.0/19$

Left In: 5.527 ± 0.781 $\chi^2/\text{NDF}: 256.3/22$

Left: 5.420 ± 0.540 $\chi^2/\text{NDF}: 601.9/47$

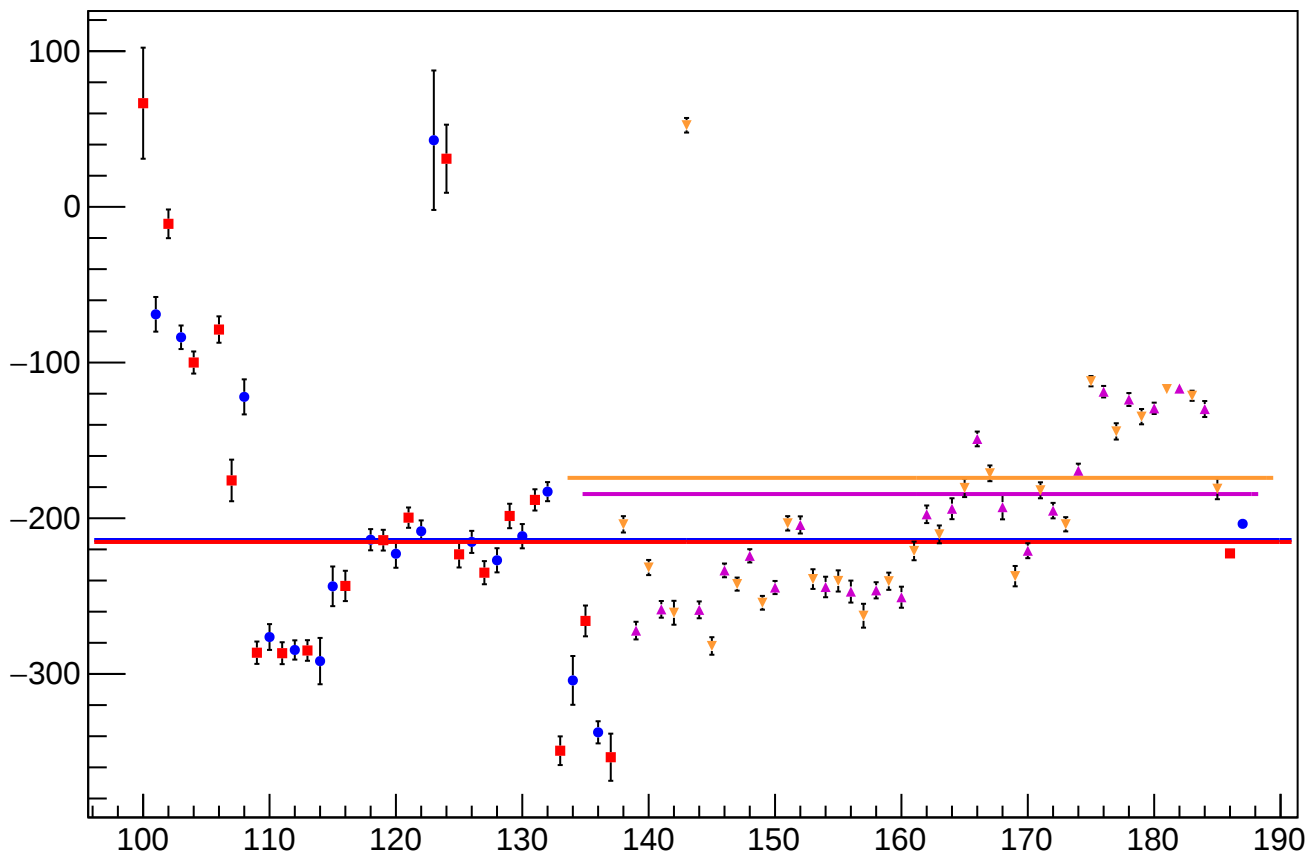
Right: 9.663 ± 0.735 $\chi^2/\text{NDF}: 719.7/37$

In: 7.735 ± 0.628 $\chi^2/\text{NDF}: 643.9/40$

Out: 6.147 ± 0.603 $\chi^2/\text{NDF}: 696.0/44$

All: 6.908 ± 0.435 $\chi^2/\text{NDF}: 1343.3/85$

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -213.969 ± 1.677 $\chi^2/\text{NDF}: 1162.0/17$

Left Out: -174.061 ± 0.971 $\chi^2/\text{NDF}: 5443.3/24$

Right Out: -215.230 ± 1.595 $\chi^2/\text{NDF}: 1894.4/19$

Left In: -184.456 ± 0.991 $\chi^2/\text{NDF}: 3051.6/22$

Left: -179.154 ± 0.693 $\chi^2/\text{NDF}: 8551.0/47$

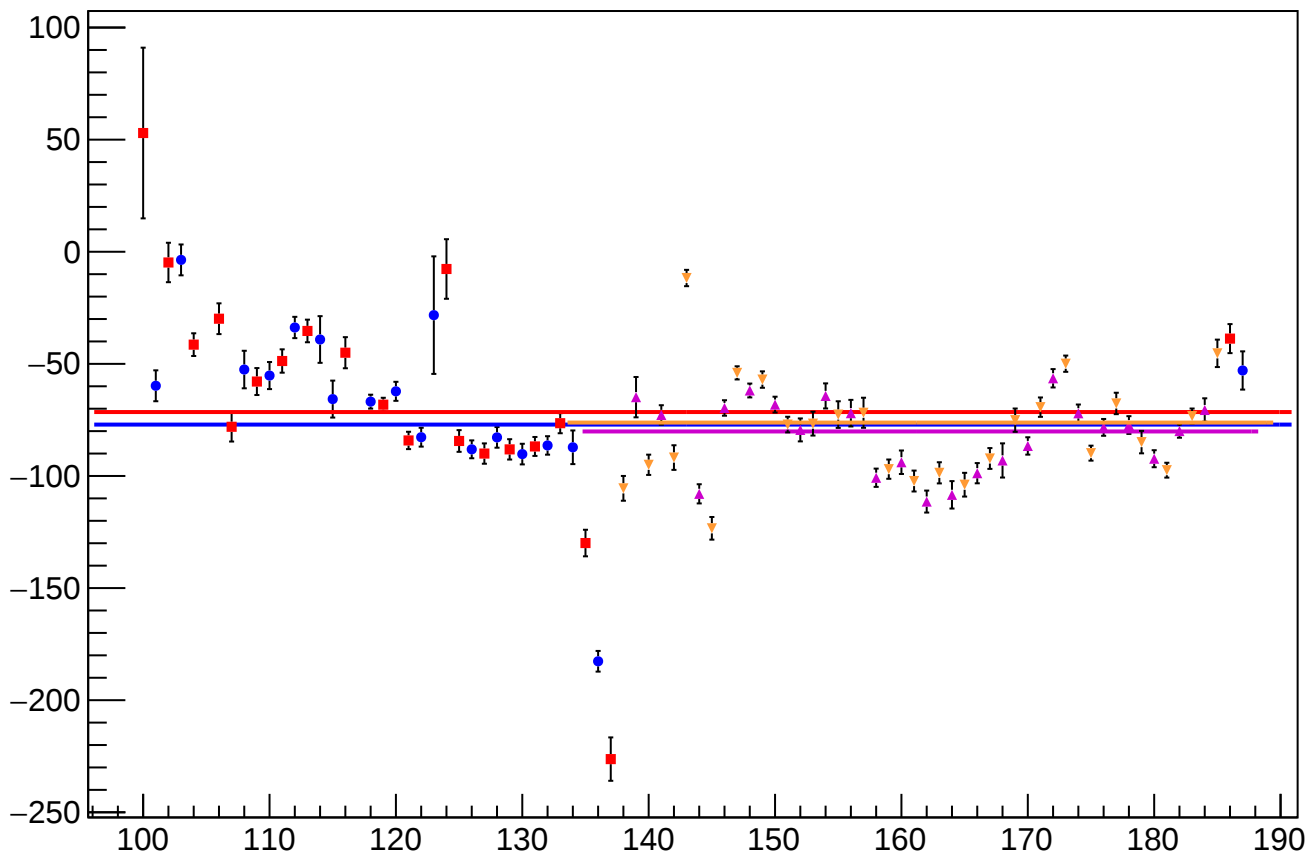
Right: -214.631 ± 1.156 $\chi^2/\text{NDF}: 3056.7/37$

In: -192.093 ± 0.853 $\chi^2/\text{NDF}: 4443.2/40$

Out: -185.189 ± 0.829 $\chi^2/\text{NDF}: 7823.7/44$

All: -188.544 ± 0.595 $\chi^2/\text{NDF}: 12300.7/85$

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: -71.489 ± 1.188 $\chi^2/\text{NDF}: 696.7/19$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

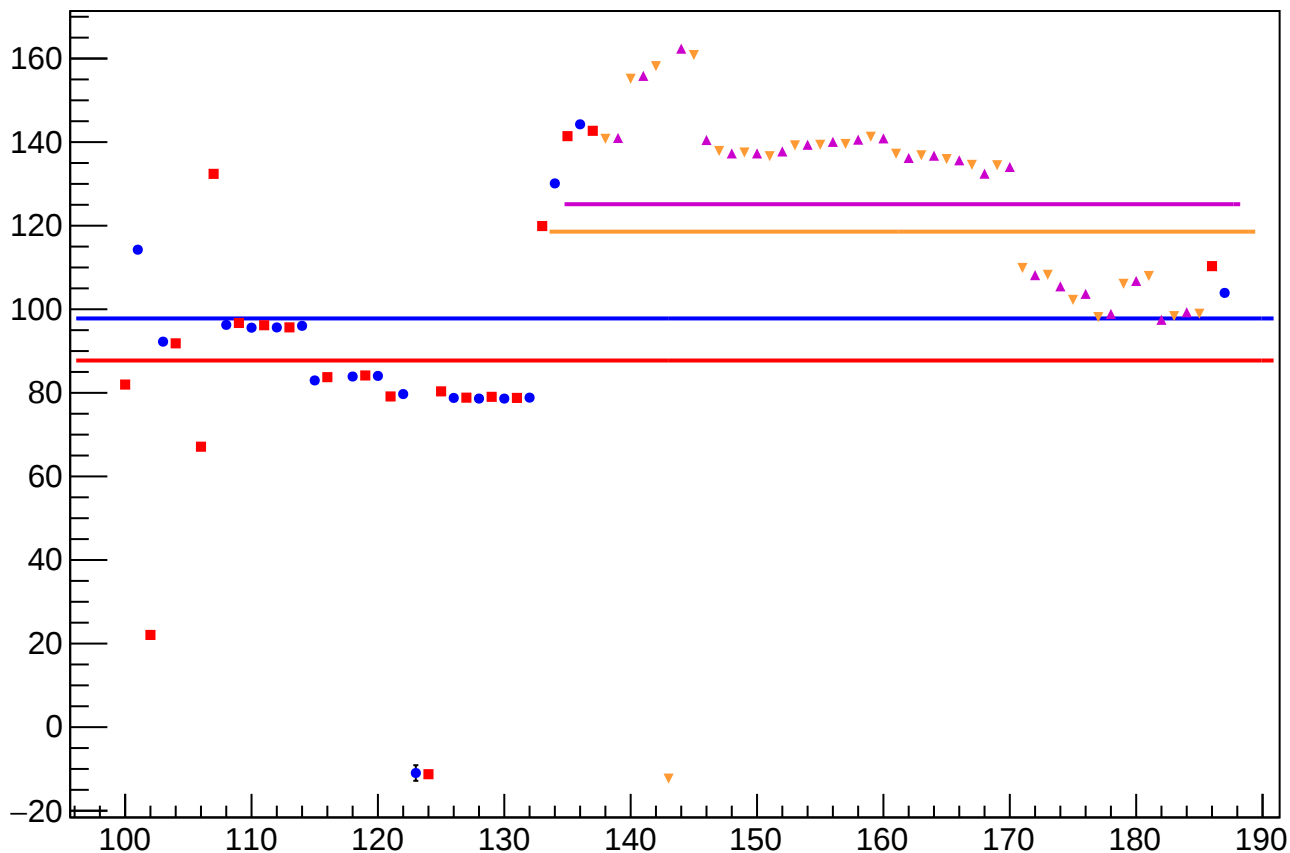
Right: -74.196 ± 0.853 $\chi^2/\text{NDF}: 1532.0/37$

In: -79.092 ± 0.720 $\chi^2/\text{NDF}: 1112.0/40$

Out: -74.575 ± 0.695 $\chi^2/\text{NDF}: 1507.9/44$

All: -76.755 ± 0.500 $\chi^2/\text{NDF}: 2640.3/85$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 97.803+/-0.073 χ^2/NDF : 94077.9/17

Left Out: 118.569+/-0.040 χ^2/NDF : 728689.7/24

Right Out: 87.739+/-0.068 χ^2/NDF : 223310.6/19

Left In: 125.139+/-0.041 χ^2/NDF : 220927.1/22

Left: 121.790+/-0.029 χ^2/NDF : 962526.8/47

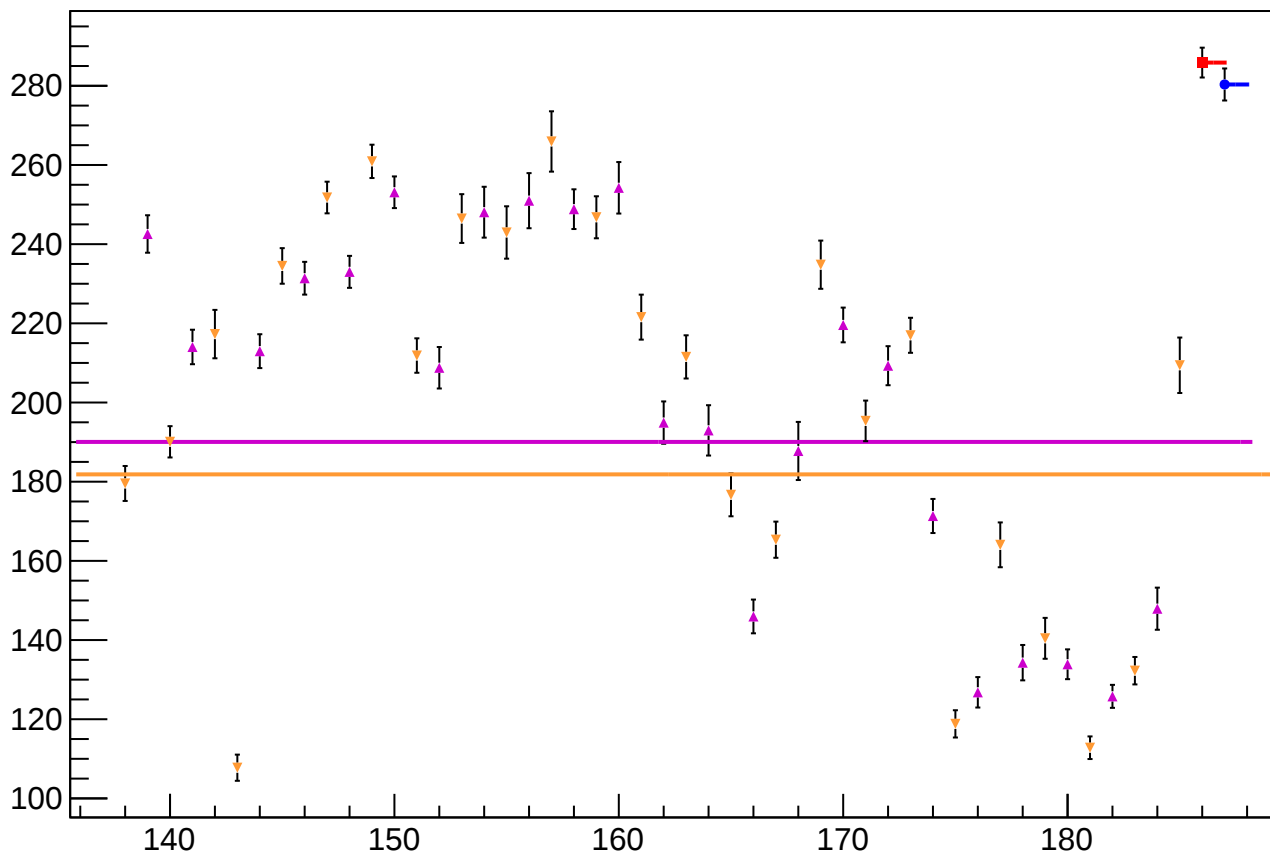
Right: 92.388+/-0.050 χ^2/NDF : 327626.0/37

In: 118.510+/-0.036 χ^2/NDF : 421329.5/40

Out: 110.429+/-0.035 χ^2/NDF : 1105047.5/44

All: 114.333+/-0.025 χ^2/NDF : 1552521.4/85

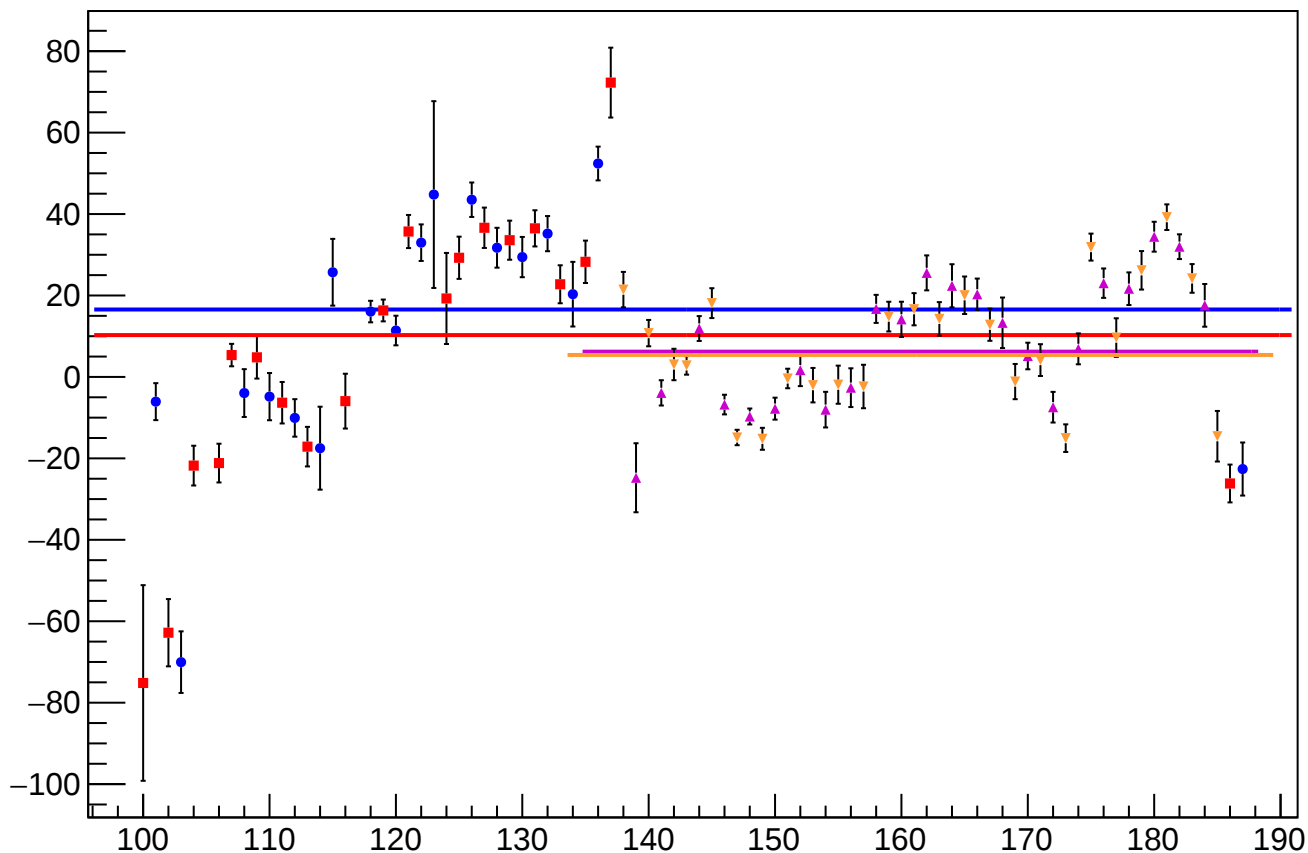
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



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: 285.865 $\pm$ 3.768 χ^2 /NDF: 0.0/0
 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: 283.297 $\pm$ 2.758 χ^2 /NDF: 1.0/1
 In: 194.790 $\pm$ 0.928 χ^2 /NDF:2909.9/23
 Out: 187.623 $\pm$ 0.888 χ^2 /NDF:4023.2/25
 All: 191.049 $\pm$ 0.641 χ^2 /NDF: 6964.3/49

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: 10.277+/-1.056 χ^2/NDF : 508.0/19

Left In: 6.206+/-0.732 χ^2/NDF : 407.5/22

Left: 5.775+/-0.501 χ^2/NDF : 934.7/47

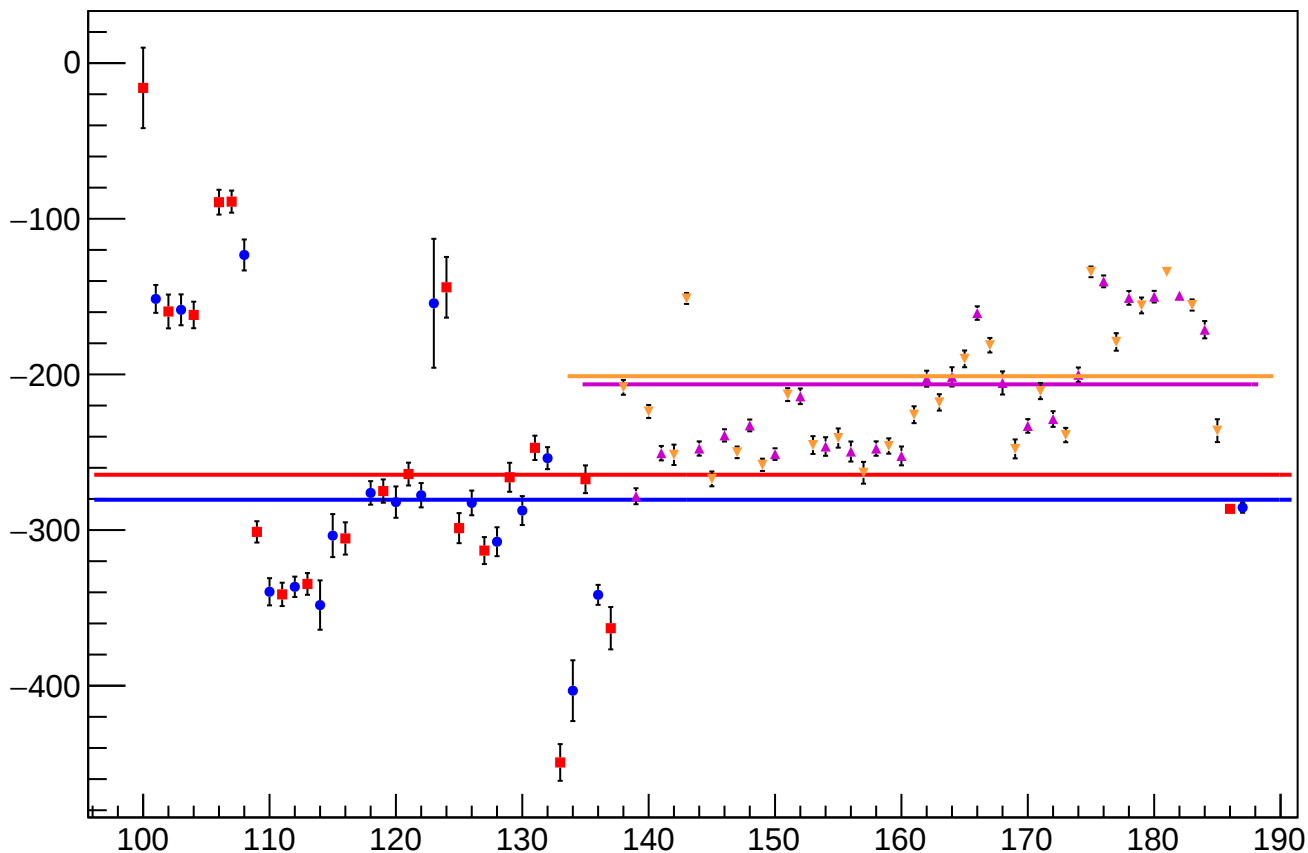
Right: 13.152+/-0.778 χ^2/NDF : 955.6/37

In: 9.190+/-0.617 χ^2/NDF : 896.5/40

Out: 6.848+/-0.576 χ^2/NDF : 1049.6/44

All: 7.939+/-0.421 χ^2/NDF : 1953.8/85

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: -264.458 ± 1.678 χ^2/NDF : 2113.9/19

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

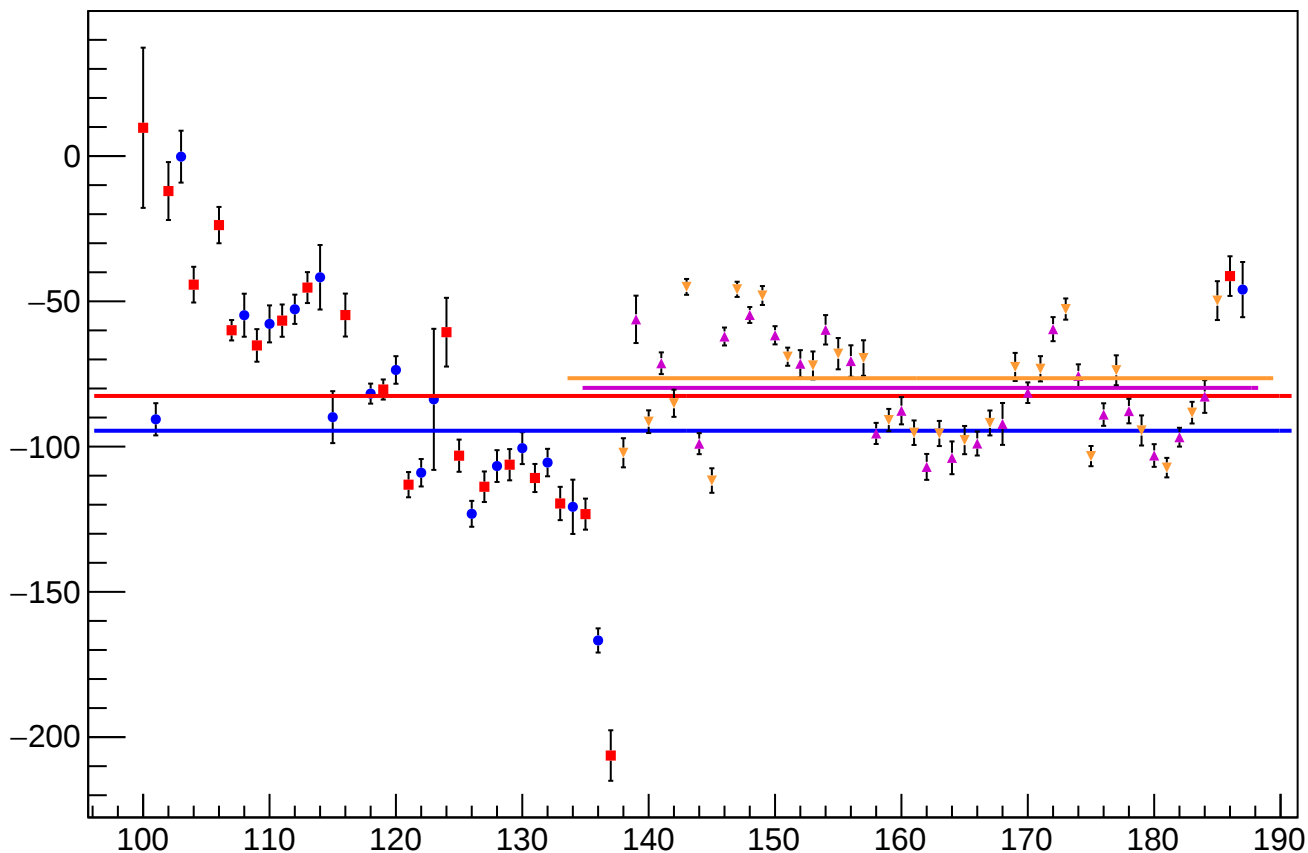
Right: -271.800 ± 1.236 χ^2/NDF : 3069.2/37

In: -222.126 ± 0.843 χ^2/NDF : 4319.6/40

Out: -215.723 ± 0.805 χ^2/NDF : 5698.4/44

All: -218.779 ± 0.582 χ^2/NDF : 10048.3/85

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -94.543 ± 1.330 $\chi^2/\text{NDF}: 695.9/17$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -82.567 ± 1.238 $\chi^2/\text{NDF}: 819.3/19$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

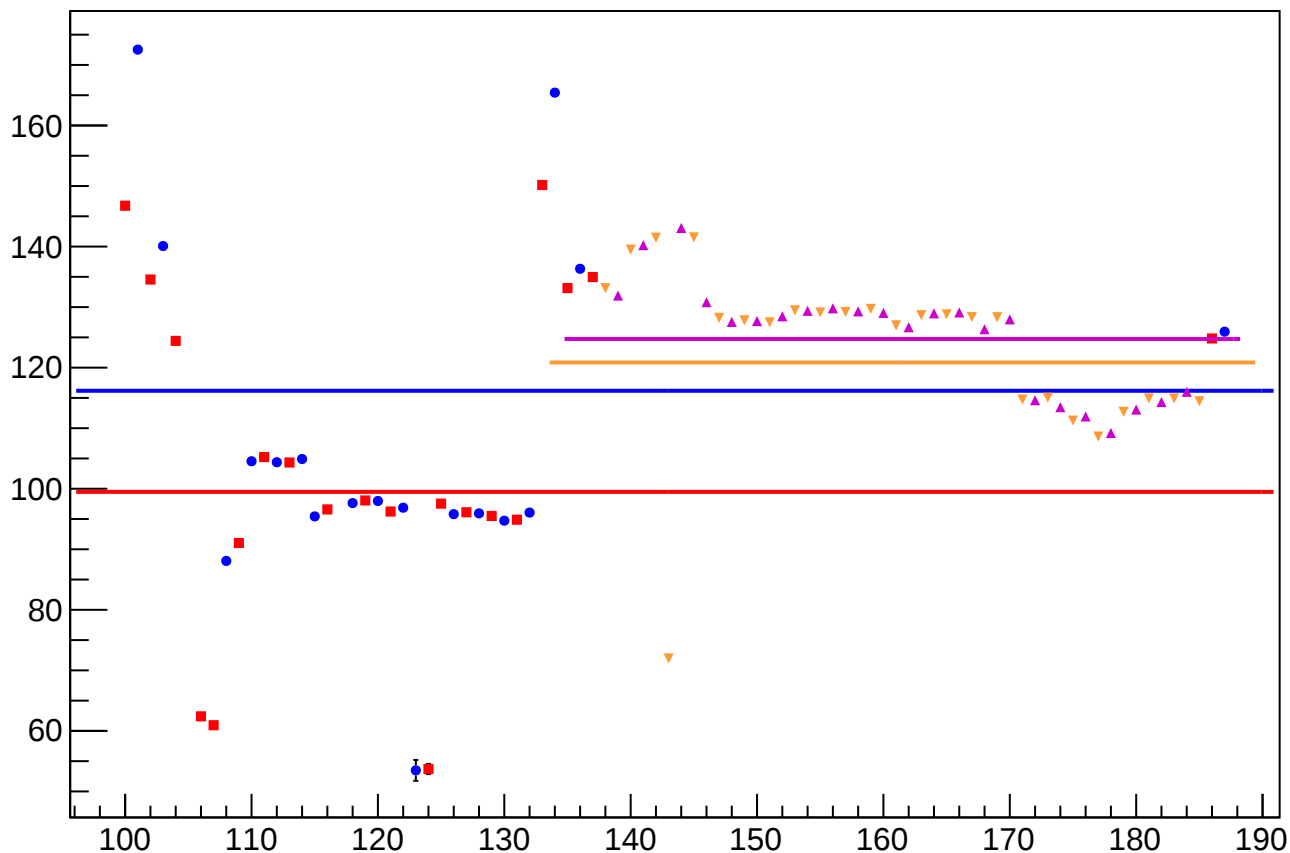
Right: -88.125 ± 0.906 $\chi^2/\text{NDF}: 1558.6/37$

In: -83.995 ± 0.710 $\chi^2/\text{NDF}: 1196.1/40$

Out: -78.248 ± 0.670 $\chi^2/\text{NDF}: 1617.8/44$

All: -80.954 ± 0.487 $\chi^2/\text{NDF}: 2848.6/85$

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: 99.482 $\pm$ 0.068 χ^2 /NDF: 175727.6/19

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

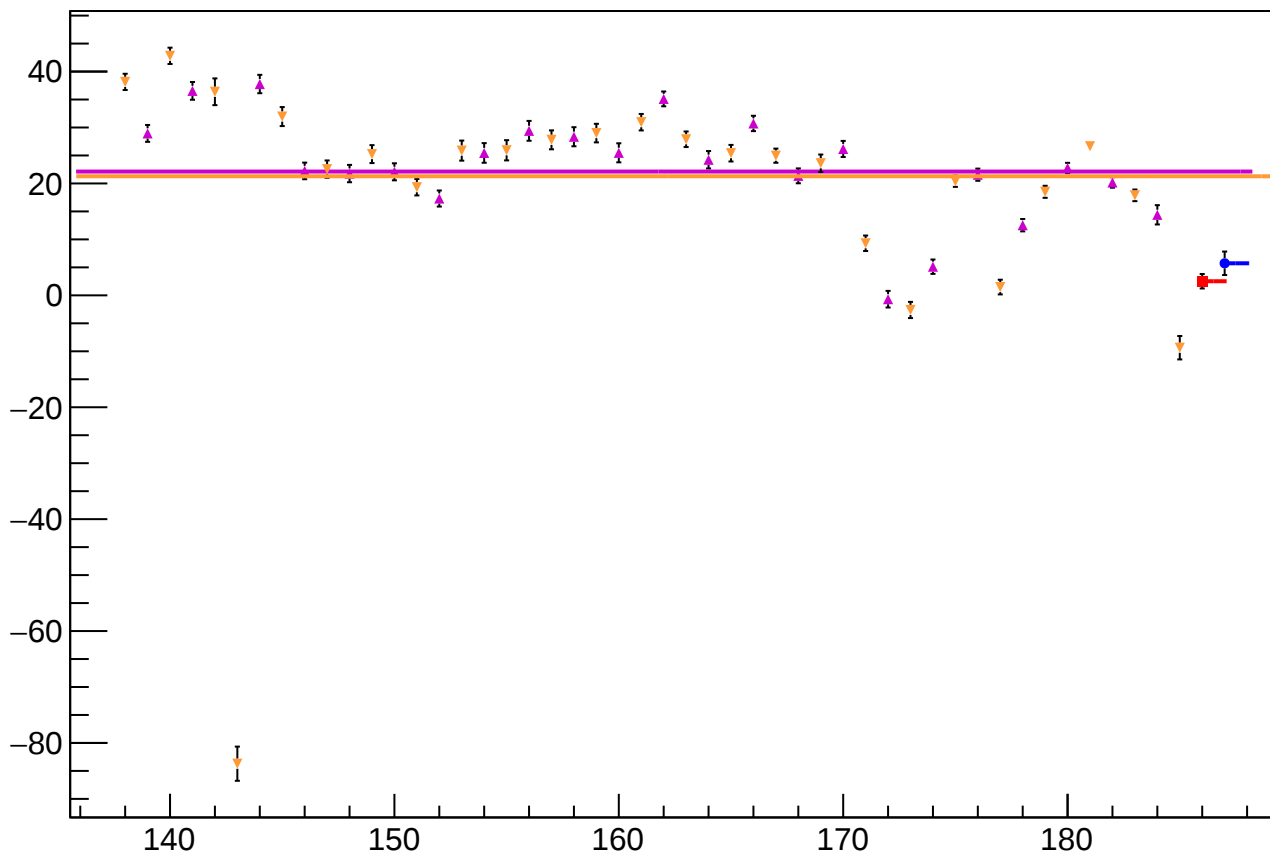
Right: 106.718 $\pm$ 0.051 χ^2 /NDF: 307893.3/37

In: 122.999 $\pm$ 0.035 χ^2 /NDF:166949.8/40

Out: 115.752 $\pm$ 0.033 χ^2 /NDF:433805.5/44

All: 119.181 $\pm$ 0.024 χ^2 /NDF: 623299.5/85

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.730 $\pm$ 2.097 χ^2 /NDF: 0.0/0

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 2.522 $\pm$ 1.295 χ^2 /NDF: 0.0/0

Left In: 22.127 $\pm$ 0.285 χ^2 /NDF:900.2/22

Left: 21.700 $\pm$ 0.201 χ^2 /NDF: 3505.2/47

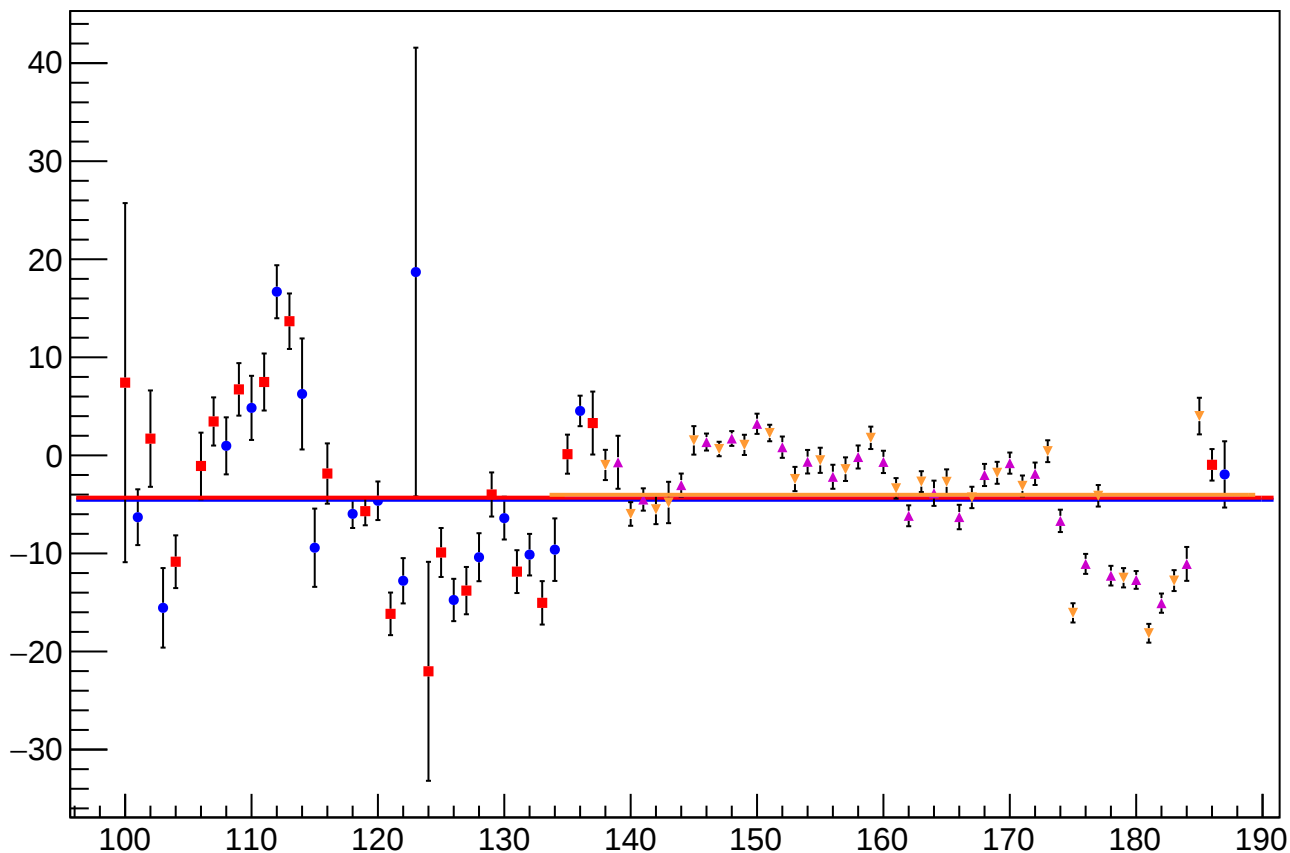
Right: 3.408 $\pm$ 1.102 χ^2 /NDF: 1.7/1

In: 21.828 $\pm$ 0.283 χ^2 /NDF:960.3/23

Out: 20.430 $\pm$ 0.276 χ^2 /NDF:2800.8/25

All: 21.112 $\pm$ 0.198 χ^2 /NDF: 3773.6/49

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.528 $\pm$ 0.580 χ^2 /NDF: 174.0/17

Left Out: -4.022 $\pm$ 0.223 χ^2 /NDF: 734.1/24

Right Out: -4.313 $\pm$ 0.550 χ^2 /NDF: 197.2/19

Left In: -4.059 $\pm$ 0.228 χ^2 /NDF: 577.2/22

Left: -4.040 $\pm$ 0.159 χ^2 /NDF: 1311.4/47

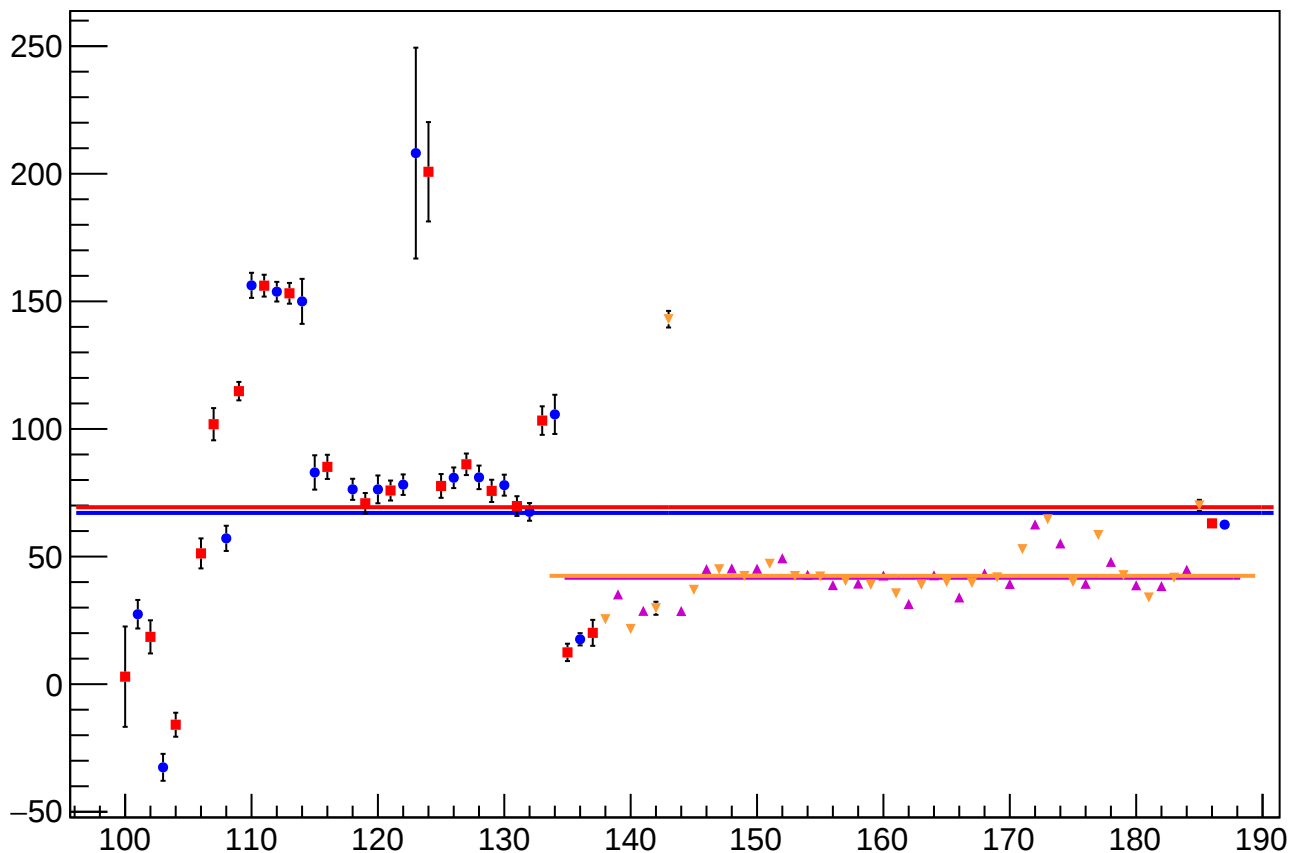
Right: -4.415 $\pm$ 0.399 χ^2 /NDF: 371.3/37

In: -4.121 $\pm$ 0.212 χ^2 /NDF: 751.8/40

Out: -4.063 $\pm$ 0.207 χ^2 /NDF: 931.6/44

All: -4.091 $\pm$ 0.148 χ^2 /NDF: 1683.4/85

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 67.101 ± 0.919 $\chi^2/\text{NDF}: 1853.9/17$

Left Out: 42.452 ± 0.282 $\chi^2/\text{NDF}: 2016.0/24$

Right Out: 69.346 ± 0.746 $\chi^2/\text{NDF}: 1958.4/19$

Left In: 41.695 ± 0.284 $\chi^2/\text{NDF}: 630.2/22$

Left: 42.077 ± 0.200 $\chi^2/\text{NDF}: 2649.8/47$

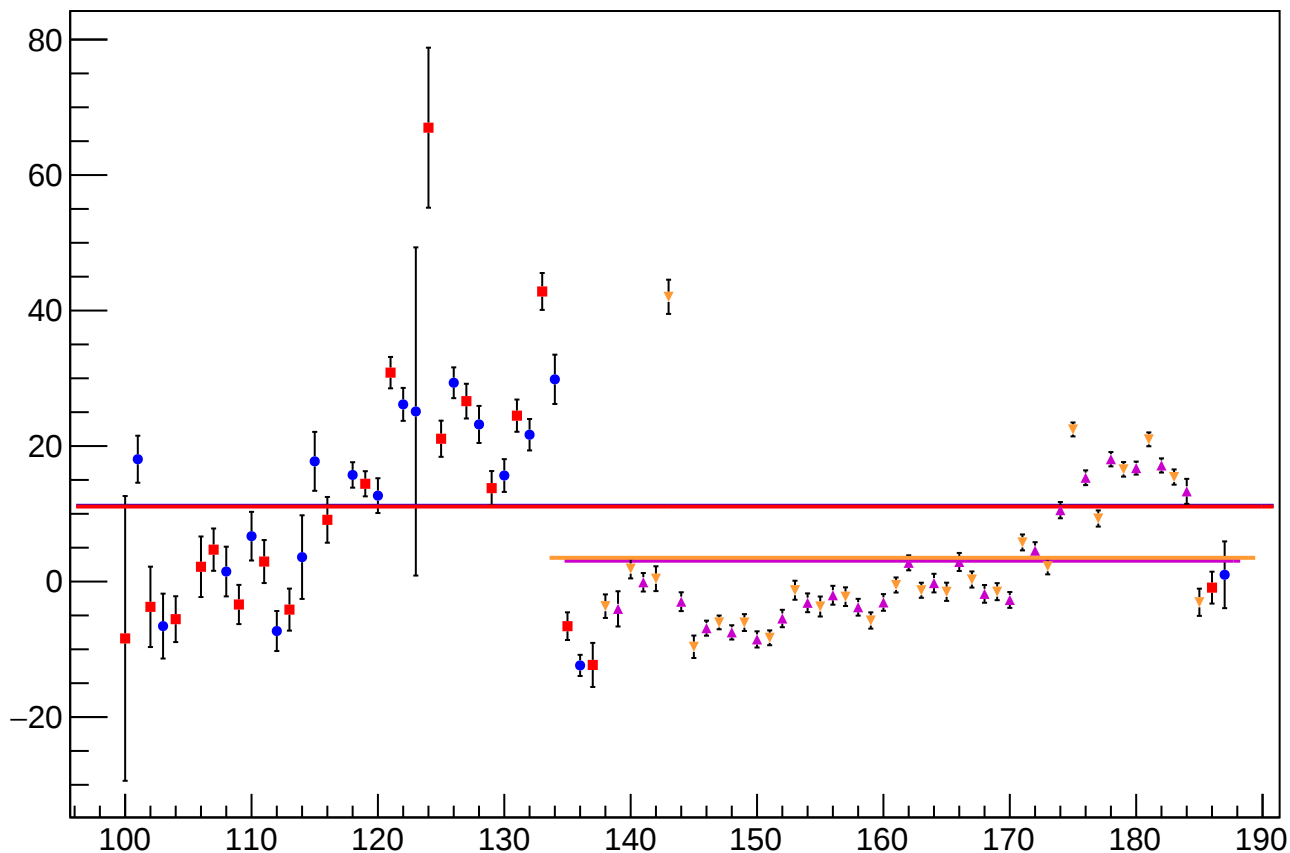
Right: 68.454 ± 0.579 $\chi^2/\text{NDF}: 3815.9/37$

In: 43.913 ± 0.271 $\chi^2/\text{NDF}: 3182.2/40$

Out: 45.812 ± 0.264 $\chi^2/\text{NDF}: 5111.3/44$

All: 44.890 ± 0.189 $\chi^2/\text{NDF}: 8318.7/85$

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: 11.077 $\pm$ 0.640 χ^2 /NDF: 565.7/19

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

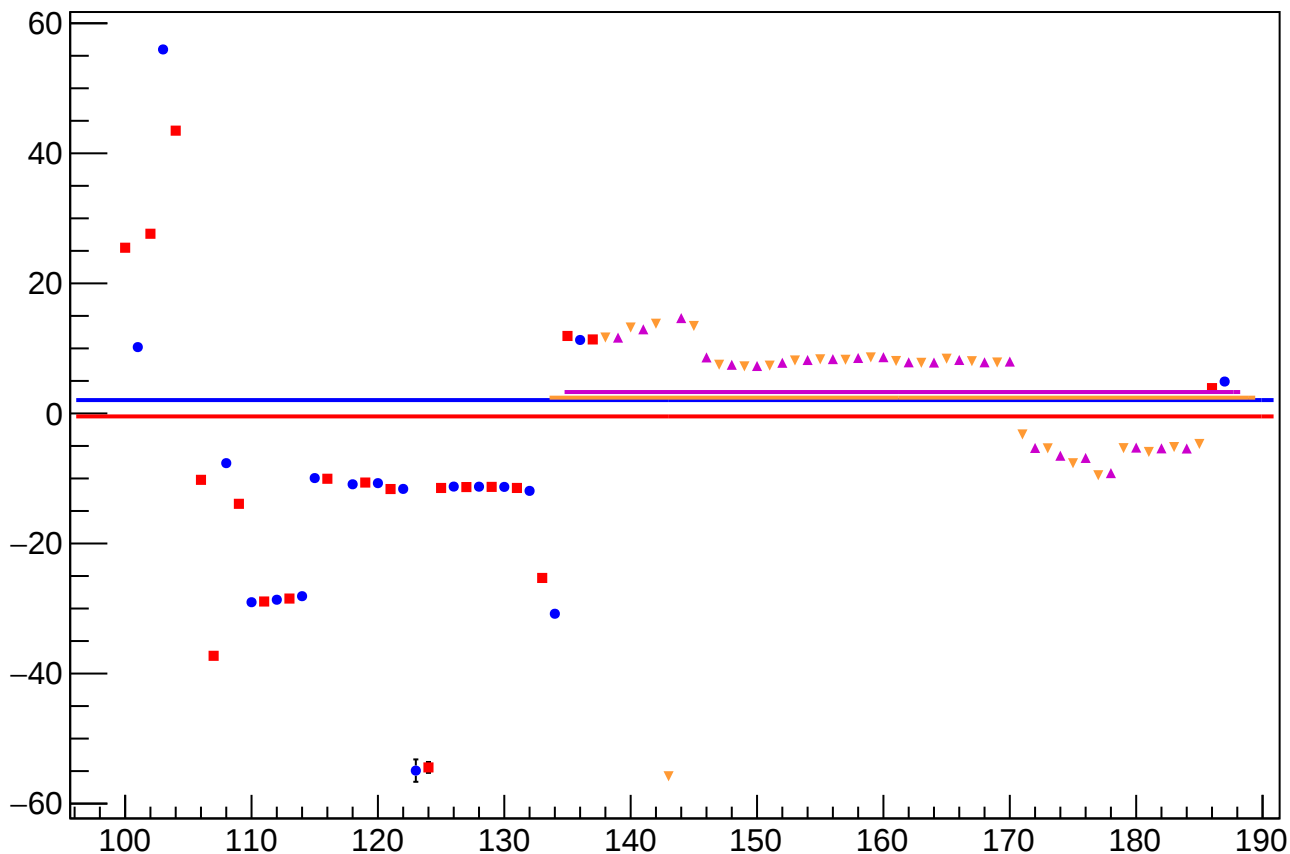
Right: 11.128 $\pm$ 0.460 χ^2 /NDF: 1044.4/37

In: 4.145 $\pm$ 0.240 χ^2 /NDF:1874.9/40

Out: 4.523 $\pm$ 0.235 χ^2 /NDF:2378.1/44

All: 4.338 $\pm$ 0.168 χ^2 /NDF: 4254.3/85

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.053+/-0.037 χ^2/NDF : 357979.8/17

Left Out: 2.425+/-0.012 χ^2/NDF : 616382.5/24

Right Out: -0.459+/-0.036 χ^2/NDF : 361683.1/19

Left In: 3.293+/-0.012 χ^2/NDF : 404323.8/22

Left: 2.855+/-0.008 χ^2/NDF : 1023497.1/47

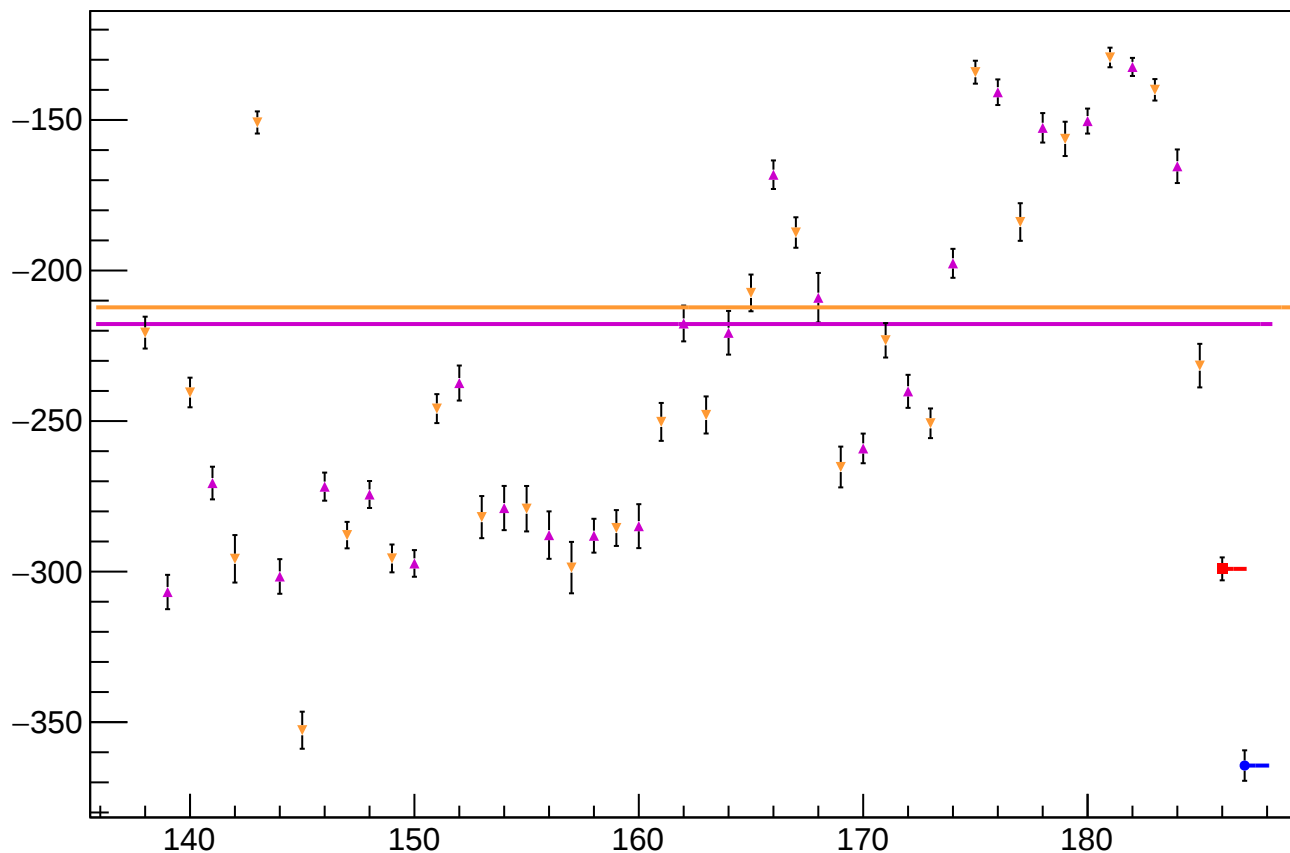
Right: 0.777+/-0.026 χ^2/NDF : 722022.7/37

In: 3.180+/-0.011 χ^2/NDF : 763330.3/40

Out: 2.159+/-0.011 χ^2/NDF : 983806.1/44

All: 2.665+/-0.008 χ^2/NDF : 1751392.6/85

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: -299.089 ± 3.810 χ^2/NDF : 0.0/0

Left In: -217.779 ± 1.067 χ^2/NDF : 3448.9/22

Left: -214.906 ± 0.741 χ^2/NDF : 7338.3/47

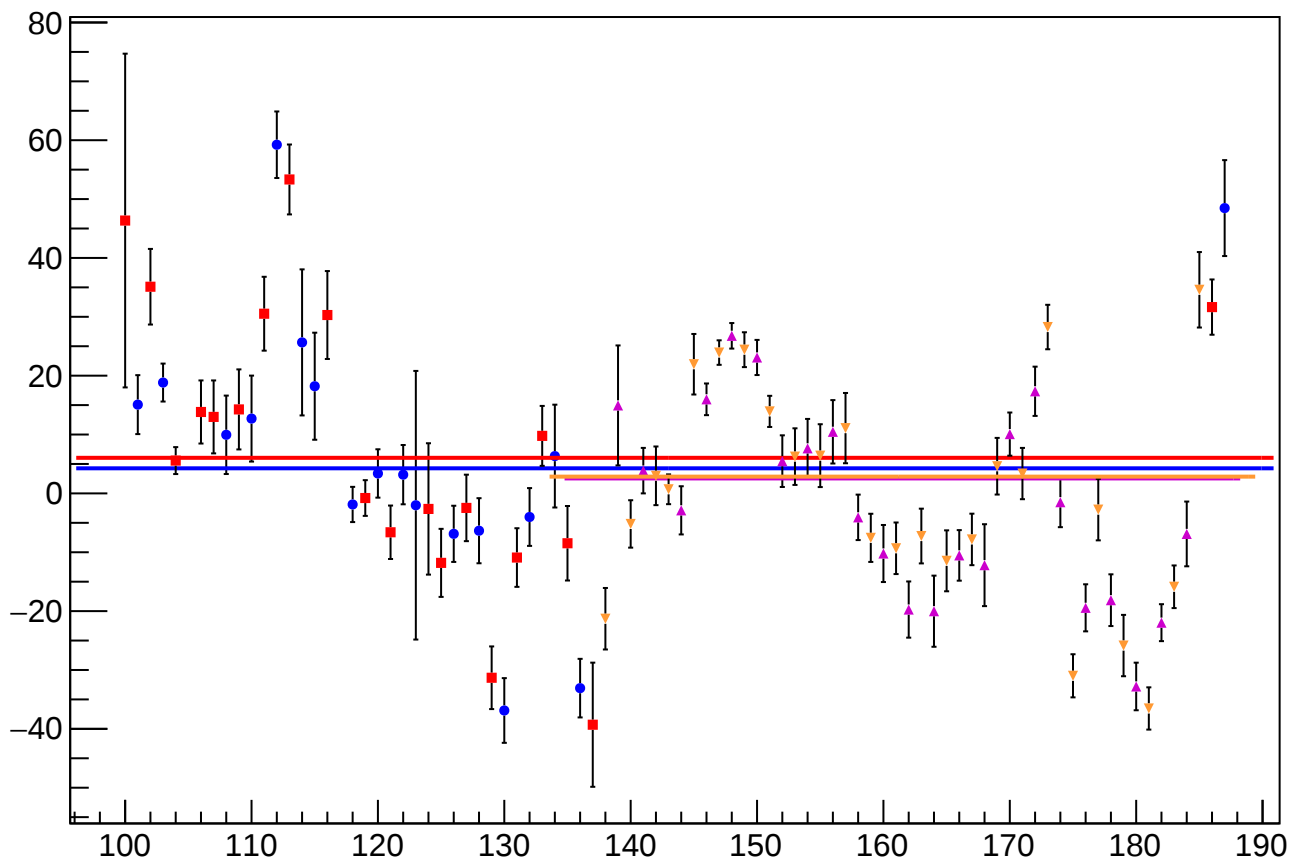
Right: -322.715 ± 3.044 χ^2/NDF : 106.3/1

In: -224.015 ± 1.044 χ^2/NDF : 4252.5/23

Out: -218.141 ± 0.994 χ^2/NDF : 4359.7/25

All: -220.934 ± 0.720 χ^2/NDF : 8628.8/49

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.260 ± 1.232 $\chi^2/\text{NDF}: 285.2/17$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 6.044 ± 1.125 $\chi^2/\text{NDF}: 256.7/19$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

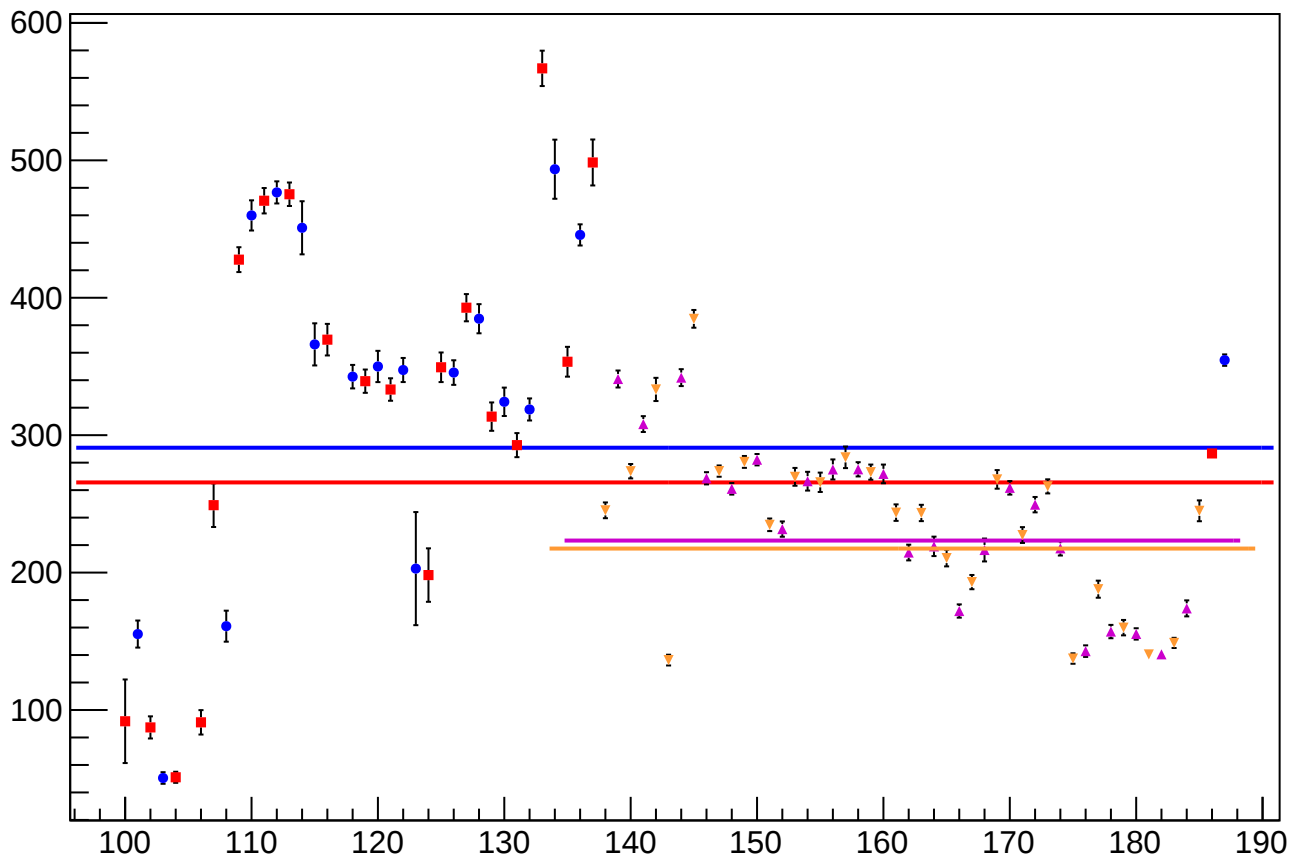
Right: 5.233 ± 0.830 $\chi^2/\text{NDF}: 543.0/37$

In: 3.071 ± 0.684 $\chi^2/\text{NDF}: 760.2/40$

Out: 3.876 ± 0.638 $\chi^2/\text{NDF}: 844.3/44$

All: 3.502 ± 0.467 $\chi^2/\text{NDF}: 1605.2/85$

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: 265.609 $\pm$ 1.718 χ^2 /NDF: 6503.9/19

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

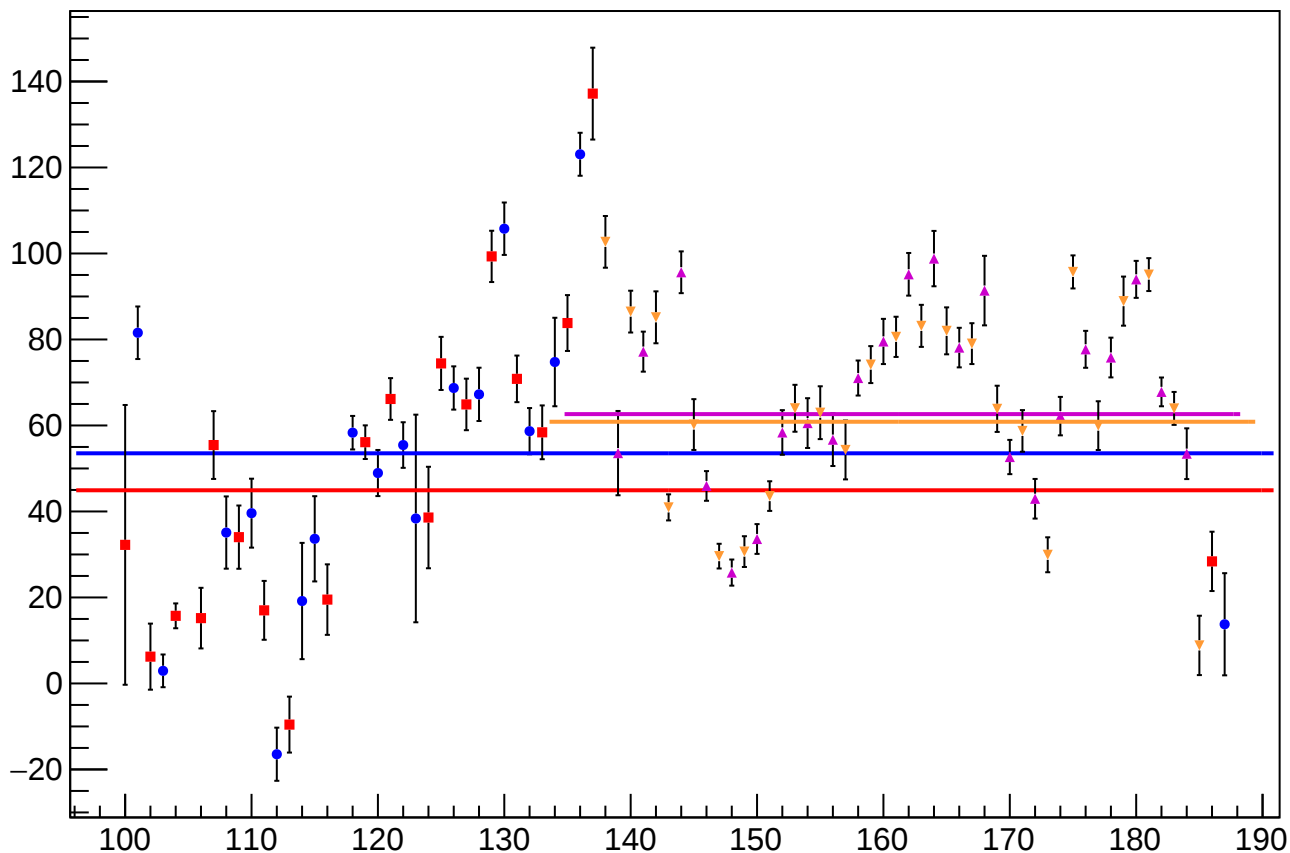
Right: 276.644 $\pm$ 1.289 χ^2 /NDF: 11991.1/37

In: 238.755 $\pm$ 0.933 χ^2 /NDF: 9696.2/40

Out: 230.250 $\pm$ 0.885 χ^2 /NDF: 10849.9/44

All: 234.280 $\pm$ 0.642 χ^2 /NDF: 20589.8/85

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: 44.924 $\pm$ 1.333 χ^2 /NDF: 534.2/19

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

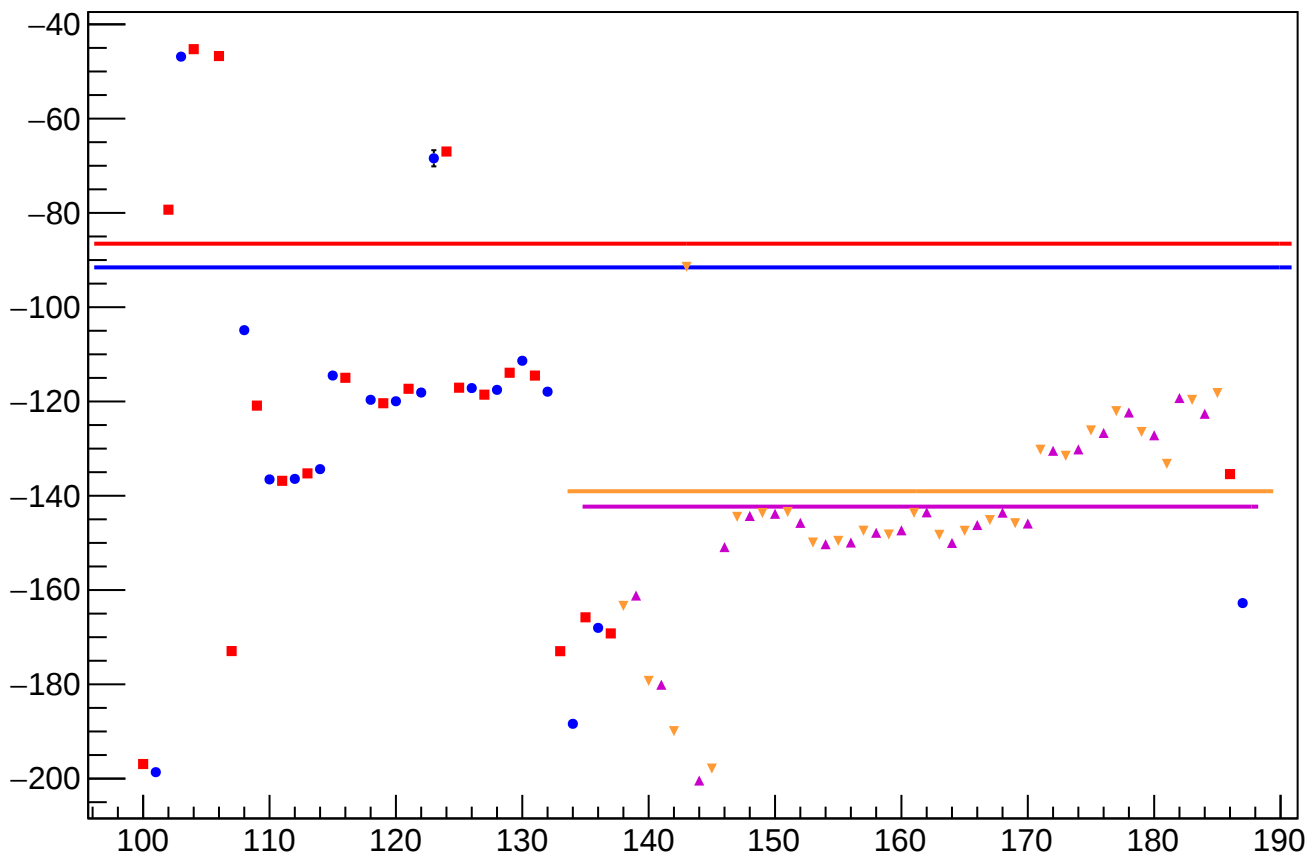
Right: 48.924 $\pm$ 0.975 χ^2 /NDF: 1198.2/37

In: 59.879 $\pm$ 0.787 χ^2 /NDF:1188.4/40

Out: 55.900 $\pm$ 0.744 χ^2 /NDF:1364.2/44

All: 57.778 $\pm$ 0.541 χ^2 /NDF: 2566.1/85

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: -86.528 ± 0.065 $\chi^2/\text{NDF}: 503812.6/19$

Left In: -142.305 ± 0.044 $\chi^2/\text{NDF}: 143351.8/22$

Left: -140.627 ± 0.031 $\chi^2/\text{NDF}: 404285.9/47$

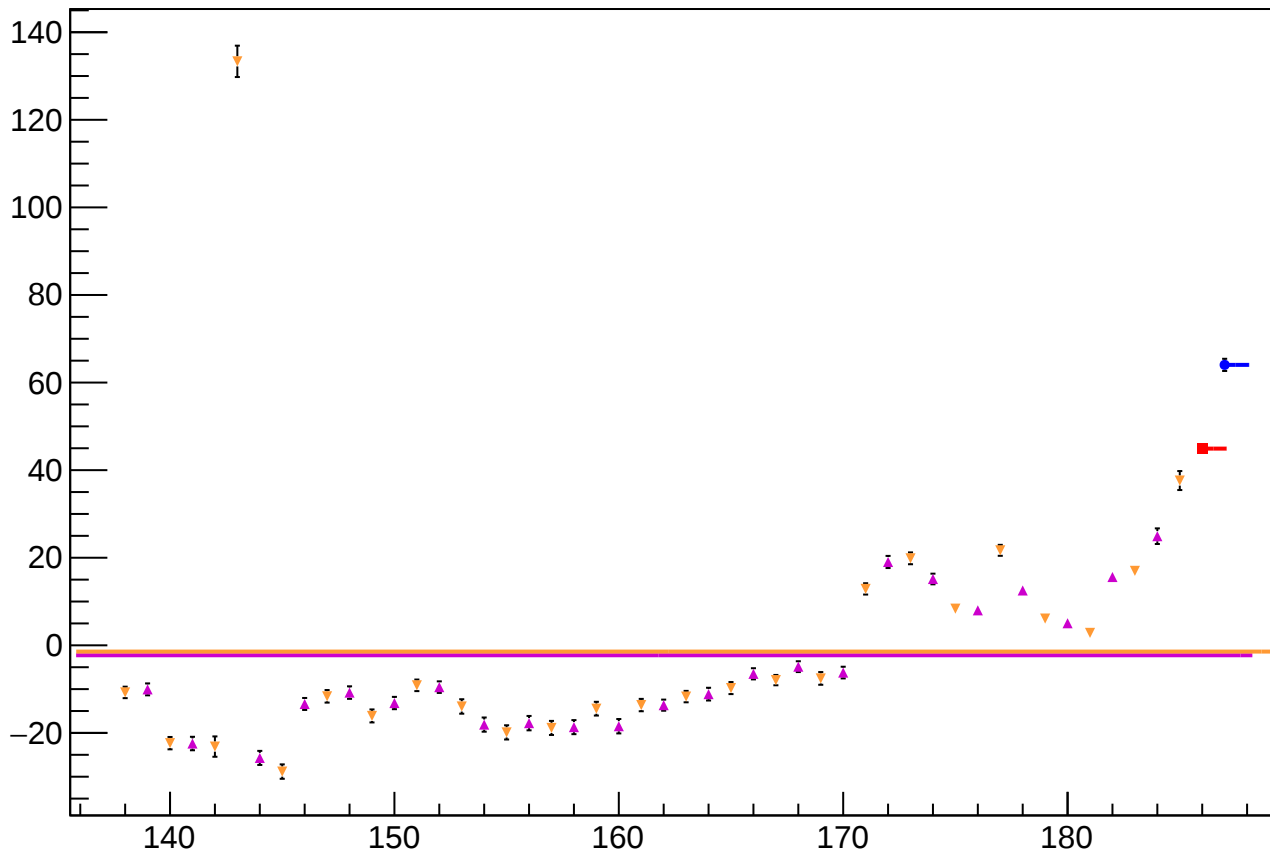
Right: -88.931 ± 0.047 $\chi^2/\text{NDF}: 1051103.1/37$

In: -127.123 ± 0.037 $\chi^2/\text{NDF}: 1084329.5/40$

Out: -122.967 ± 0.036 $\chi^2/\text{NDF}: 1221186.1/44$

All: -124.977 ± 0.026 $\chi^2/\text{NDF}: 2312064.9/85$

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: 44.920+/-0.865 χ^2/NDF : 0.0/0

Left In: -2.270+/-0.271 χ^2/NDF : 2521.6/22

Left: -1.844+/-0.190 χ^2/NDF : 6865.5/47

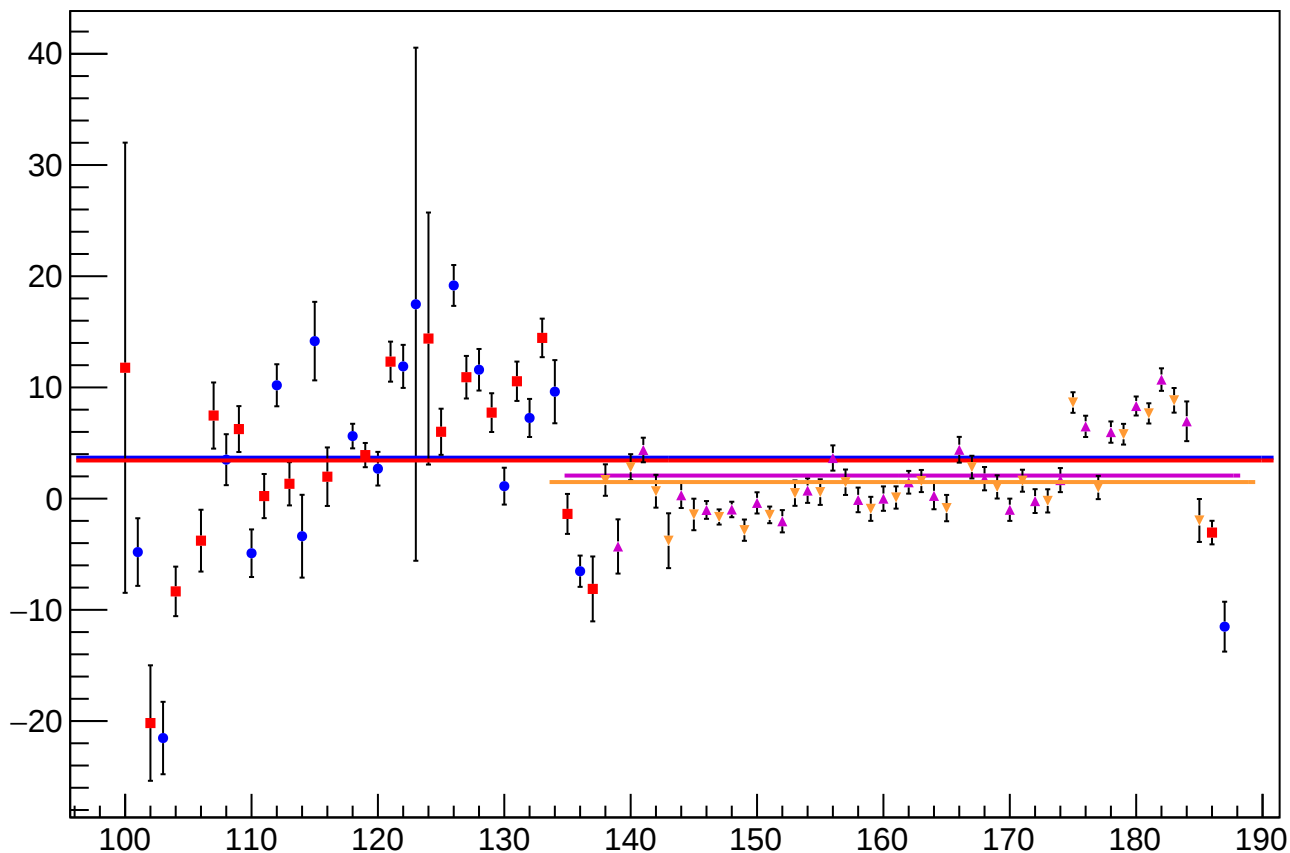
Right: 50.239+/-0.735 χ^2/NDF : 136.0/1

In: 0.144+/-0.266 χ^2/NDF : 4705.7/23

Out: 2.624+/-0.256 χ^2/NDF : 6960.6/25

All: 1.432+/-0.184 χ^2/NDF : 11711.5/49

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: 3.432 $\pm$ 0.433 χ^2 /NDF: 228.7/19

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

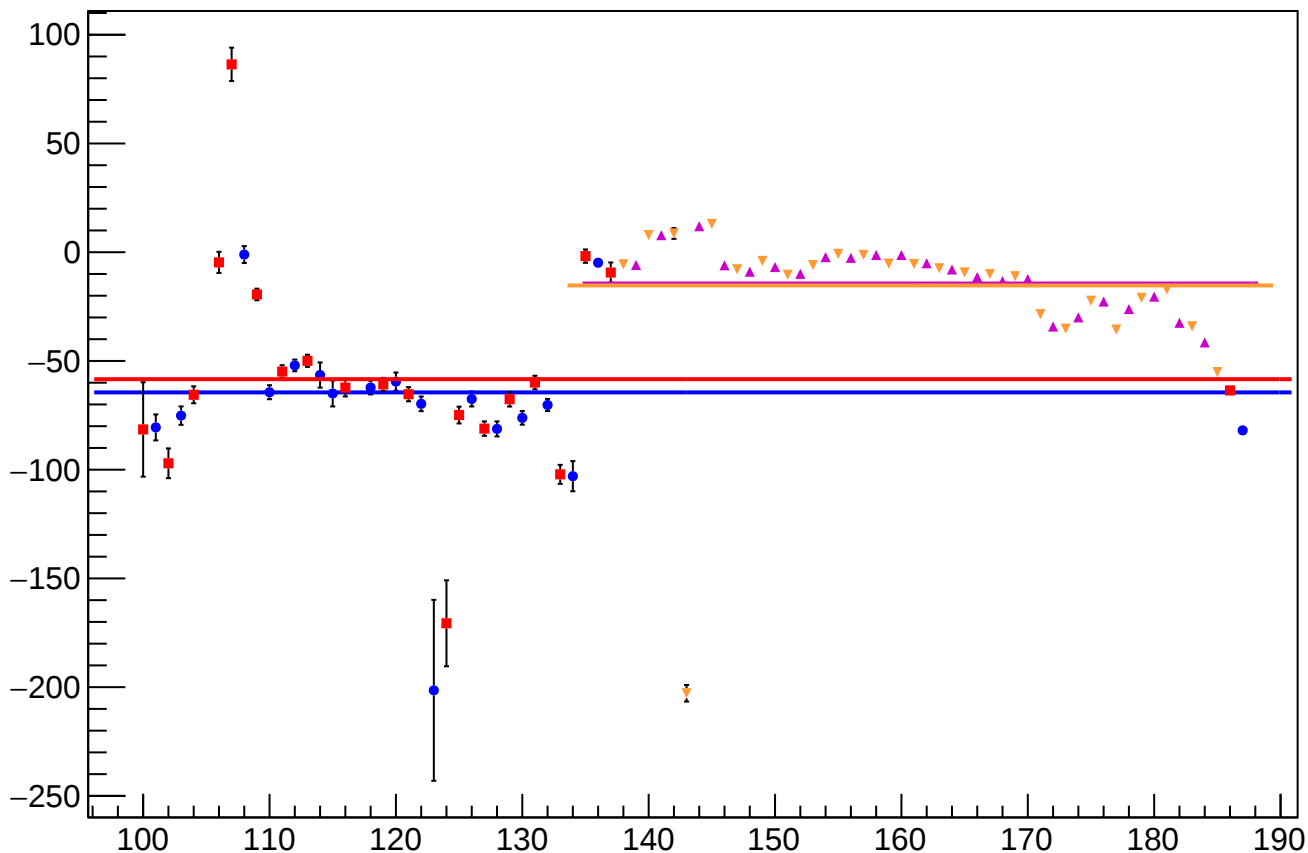
Right: 3.550 $\pm$ 0.316 χ^2 /NDF: 557.6/37

In: 2.362 $\pm$ 0.195 χ^2 /NDF:613.3/40

Out: 1.862 $\pm$ 0.189 χ^2 /NDF:504.1/44

All: 2.104 $\pm$ 0.136 χ^2 /NDF: 1120.7/85

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: -58.390 ± 0.539 χ^2/NDF : 1458.4/19

Left In: -14.406 ± 0.269 χ^2/NDF : 2032.4/22

Left: -14.846 ± 0.189 χ^2/NDF : 6857.8/47

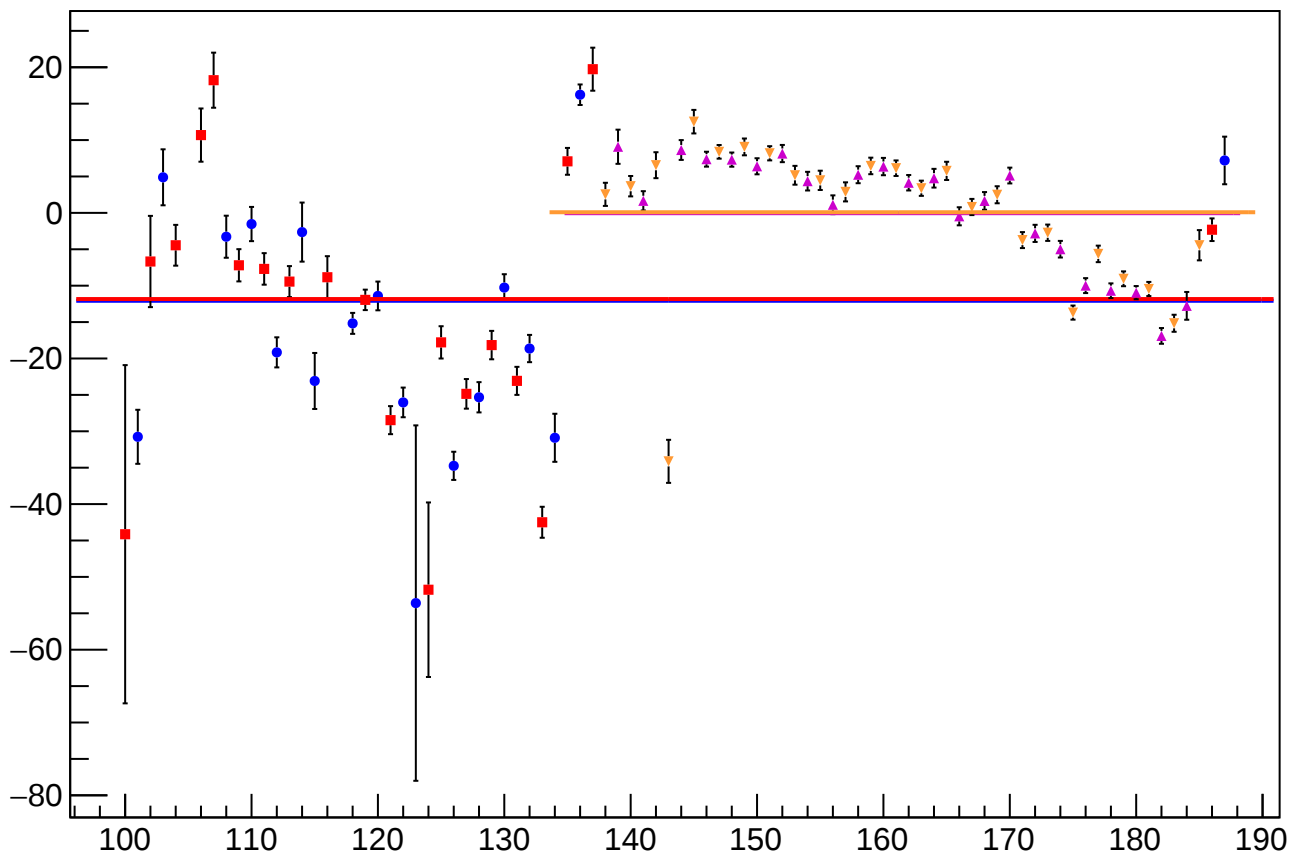
Right: -60.678 ± 0.425 χ^2/NDF : 2888.3/37

In: -20.971 ± 0.251 χ^2/NDF : 7952.4/40

Out: -23.770 ± 0.239 χ^2/NDF : 11421.0/44

All: -22.438 ± 0.173 χ^2/NDF : 19438.6/85

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -12.071 ± 0.530 χ^2/NDF : 815.4/17

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -11.837 ± 0.509 χ^2/NDF : 763.9/19

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

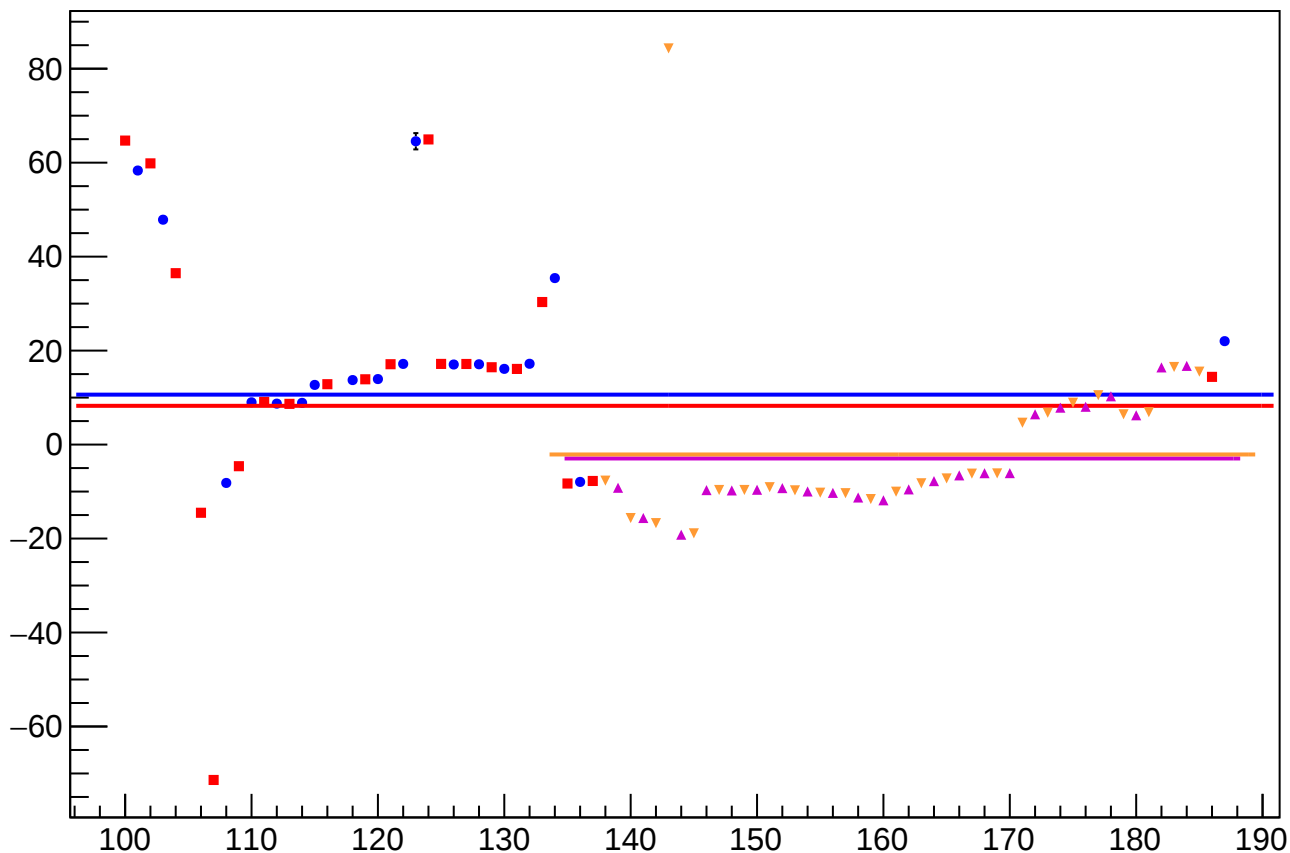
Right: -11.949 ± 0.367 χ^2/NDF : 1579.5/37

In: -2.131 ± 0.221 χ^2/NDF : 2268.4/40

Out: -2.057 ± 0.216 χ^2/NDF : 2386.6/44

All: -2.093 ± 0.154 χ^2/NDF : 4655.1/85

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: 8.248+/-0.030 χ^2/NDF : 547179.2/19

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

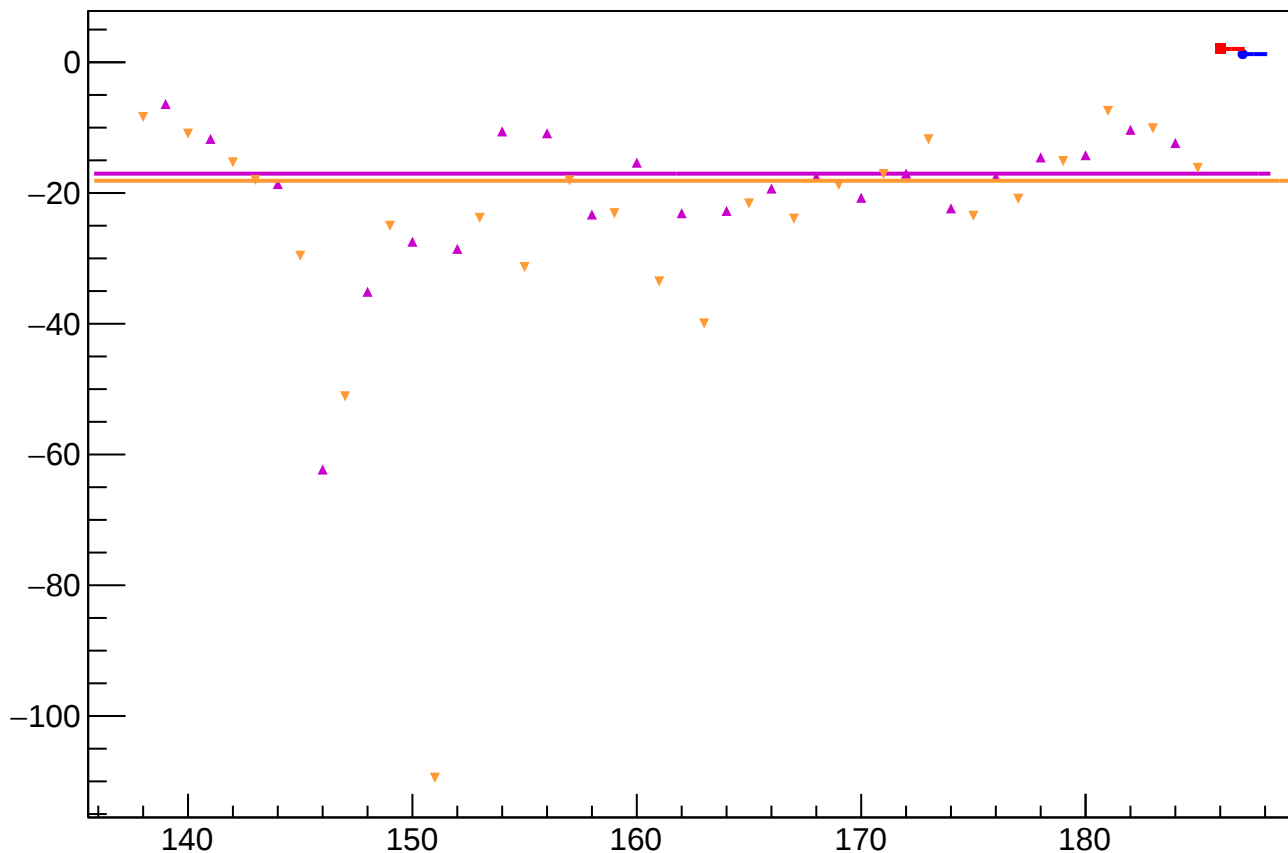
Right: 9.433+/-0.021 χ^2/NDF : 934909.2/37

In: -1.377+/-0.010 χ^2/NDF : 1325230.9/40

Out: -0.906+/-0.010 χ^2/NDF : 1744347.2/44

All: -1.140+/-0.007 χ^2/NDF : 3070622.3/85

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.248 $\pm$ 0.282 χ^2 /NDF: 0.0/0

Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF:88551.6/24

Right Out: 2.038 $\pm$ 0.194 χ^2 /NDF: 0.0/0

Left In: -17.038 $\pm$ 0.038 χ^2 /NDF:44141.1/22

Left: -17.572 $\pm$ 0.027 χ^2 /NDF: 133092.4/47

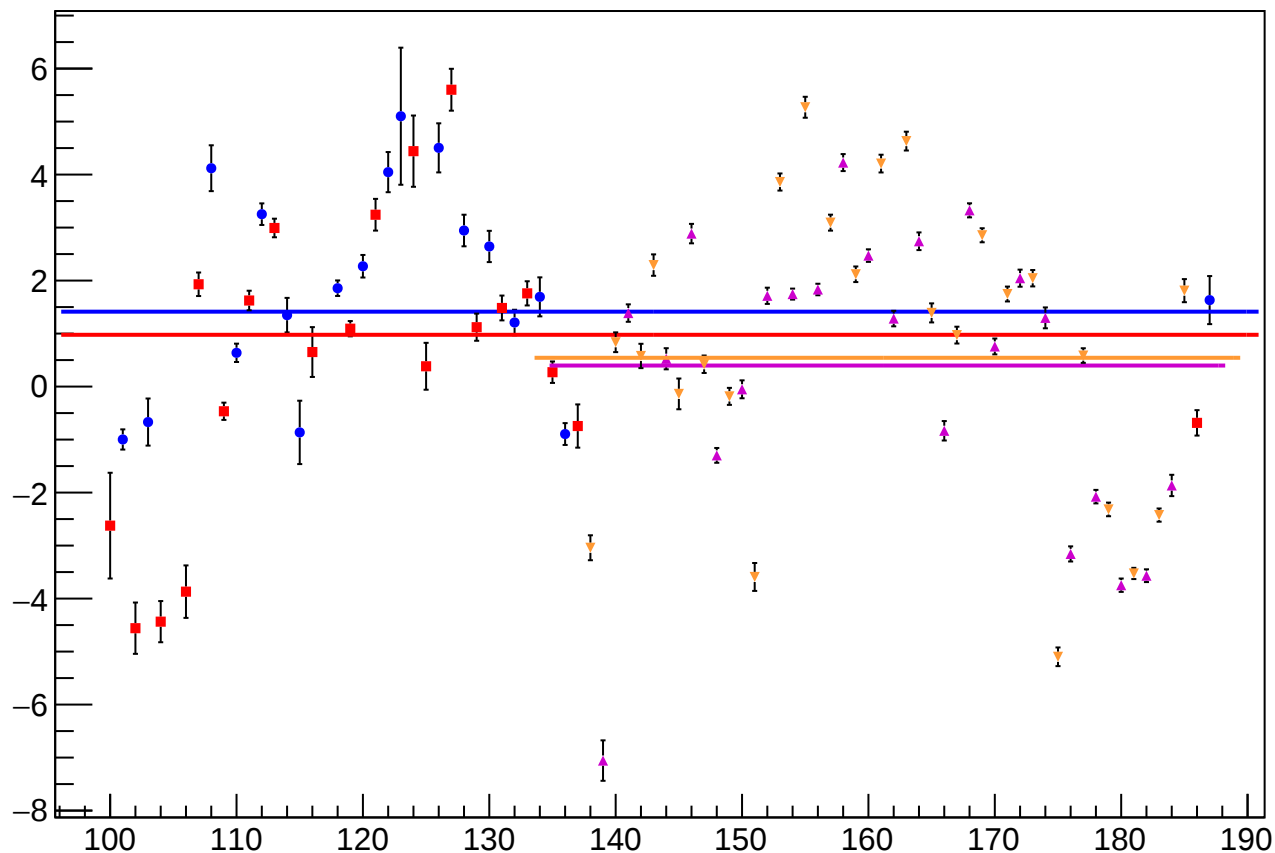
Right: 1.783 $\pm$ 0.160 χ^2 /NDF: 5.3/1

In: -16.709 $\pm$ 0.038 χ^2 /NDF:48280.8/23

Out: -17.351 $\pm$ 0.038 χ^2 /NDF:98896.5/25

All: -17.027 $\pm$ 0.027 χ^2 /NDF: 147320.2/49

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.413 ± 0.061 χ^2/NDF : 634.8/17

Left Out: 0.543 ± 0.032 χ^2/NDF : 7085.3/24

Right Out: 0.977 ± 0.056 χ^2/NDF : 993.4/19

Left In: 0.397 ± 0.031 χ^2/NDF : 6235.6/22

Left: 0.466 ± 0.022 χ^2/NDF : 13331.6/47

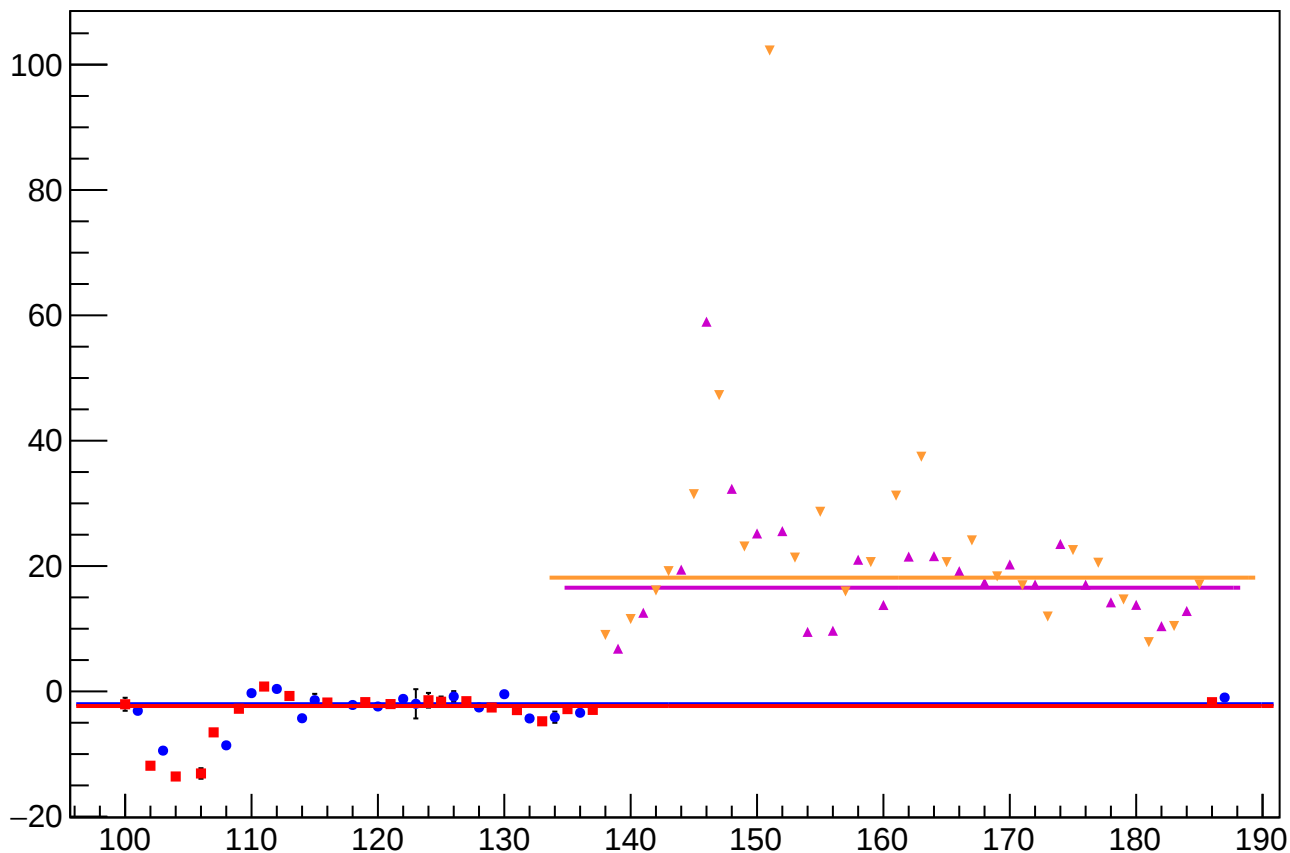
Right: 1.177 ± 0.042 χ^2/NDF : 1655.5/37

In: 0.600 ± 0.027 χ^2/NDF : 7089.0/40

Out: 0.651 ± 0.028 χ^2/NDF : 8123.1/44

All: 0.625 ± 0.020 χ^2/NDF : 15213.8/85

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: -2.332 ± 0.083 $\chi^2/\text{NDF}: 913.1/19$

Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

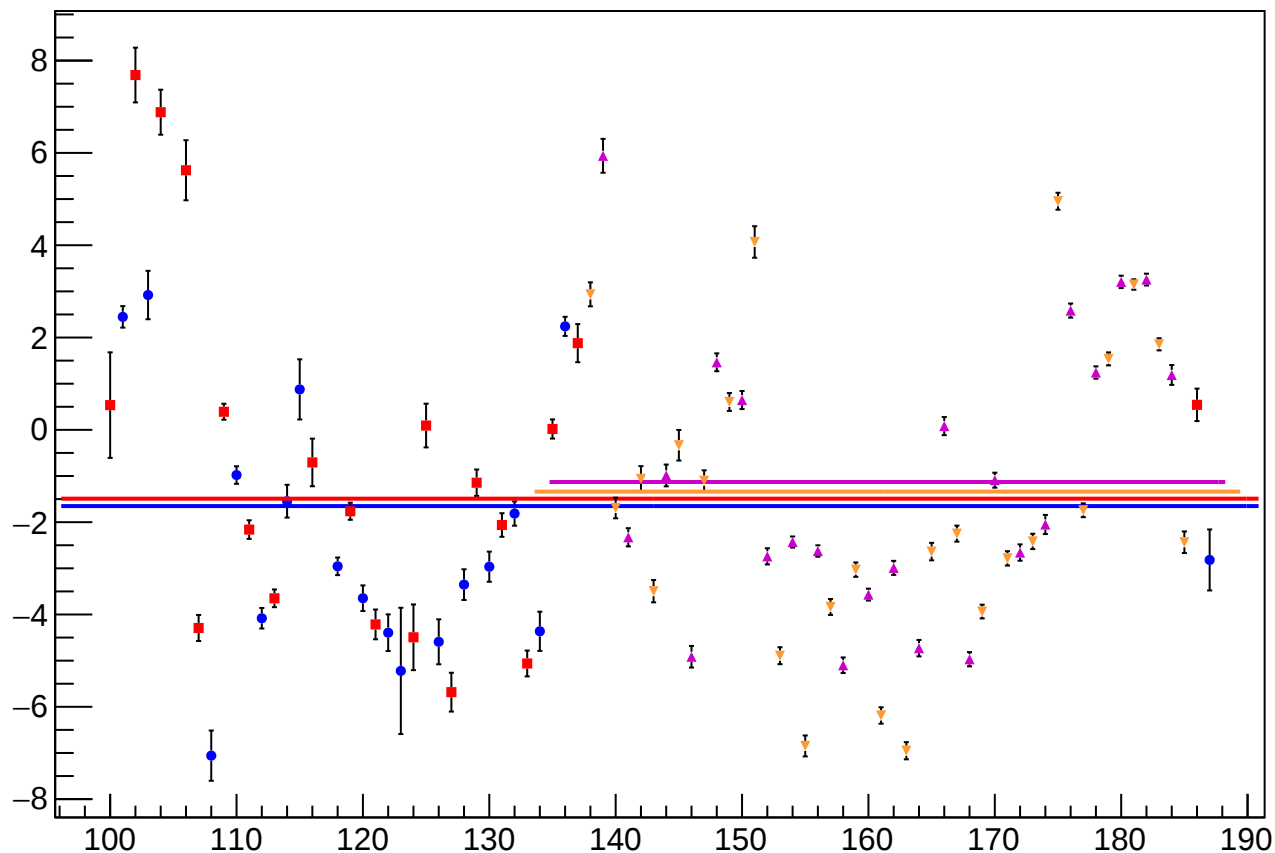
Right: -2.214 ± 0.064 $\chi^2/\text{NDF}: 1391.6/37$

In: 14.243 ± 0.035 $\chi^2/\text{NDF}: 71311.4/40$

Out: 14.466 ± 0.035 $\chi^2/\text{NDF}: 128134.2/44$

All: 14.354 ± 0.025 $\chi^2/\text{NDF}: 199465.5/85$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



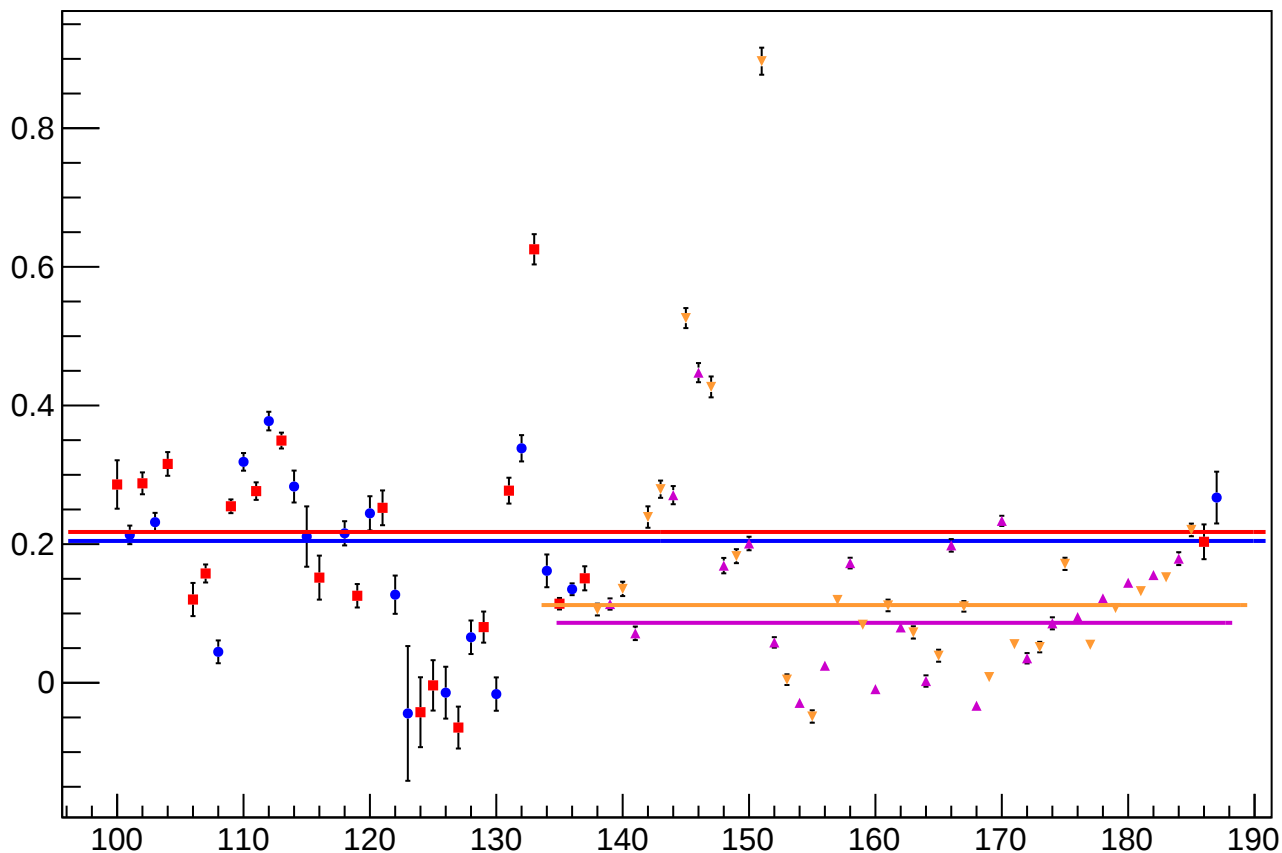
Right In: -1.651 ± 0.071 χ^2/NDF : 1261.7/17
 Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24
 Right Out: -1.491 ± 0.065 χ^2/NDF : 1538.4/19
 Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47
 Right: -1.564 ± 0.048 χ^2/NDF : 2802.8/37

In: -1.228 ± 0.031 χ^2/NDF : 8046.0/40
 Out: -1.374 ± 0.031 χ^2/NDF : 9485.7/44

All: -1.299 ± 0.022 χ^2/NDF : 17542.7/85

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.205 $\pm$ 0.004 χ^2 /NDF: 648.4/17

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.218 $\pm$ 0.004 χ^2 /NDF: 1016.4/19

Left In: 0.087 $\pm$ 0.002 χ^2 /NDF:3655.4/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8295.3/47

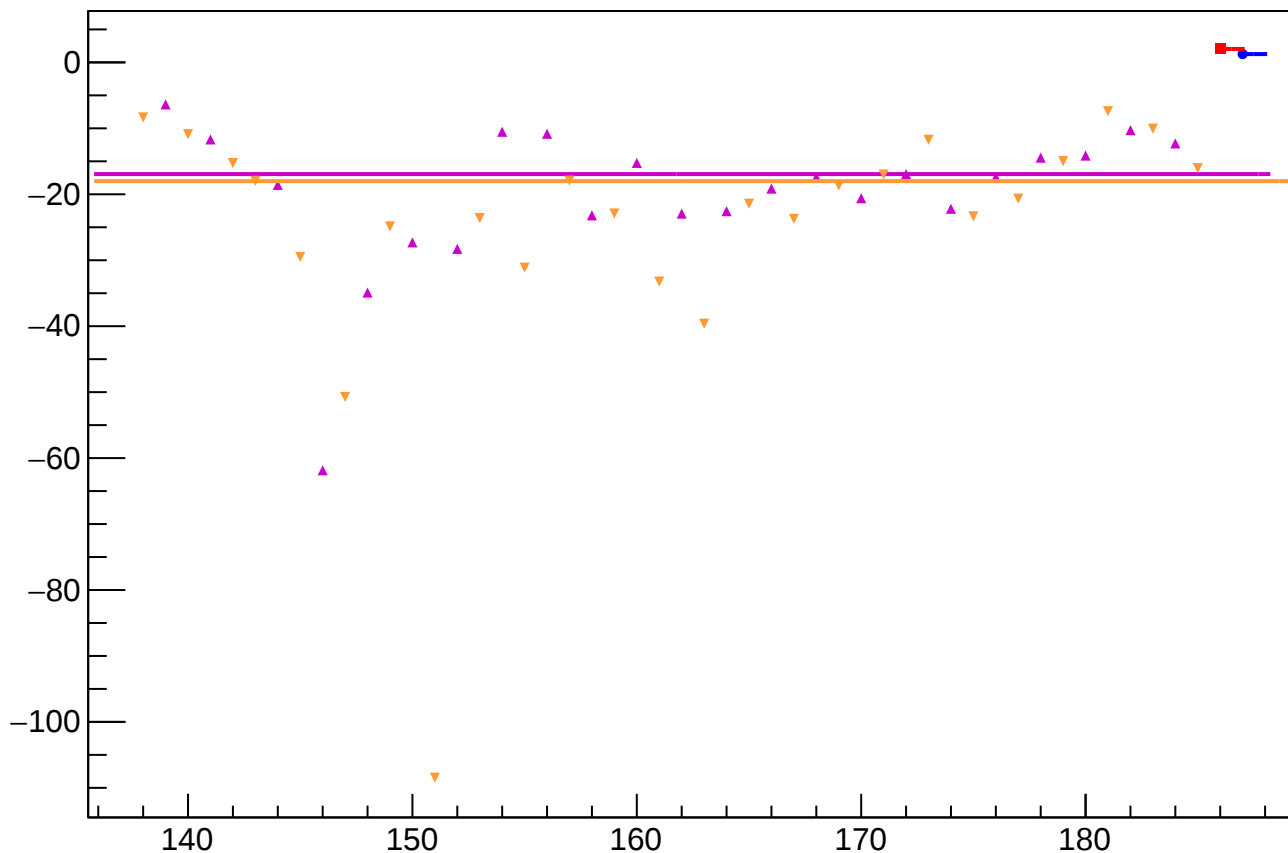
Right: 0.212 $\pm$ 0.003 χ^2 /NDF: 1670.4/37

In: 0.100 $\pm$ 0.001 χ^2 /NDF:5025.0/40

Out: 0.129 $\pm$ 0.001 χ^2 /NDF:6217.1/44

All: 0.114 $\pm$ 0.001 χ^2 /NDF: 11442.5/85

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: 2.041+/-0.192 χ^2/NDF : 0.0/0

Left In: -16.934+/-0.038 χ^2/NDF : 44060.6/22

Left: -17.459+/-0.027 χ^2/NDF : 132843.0/47

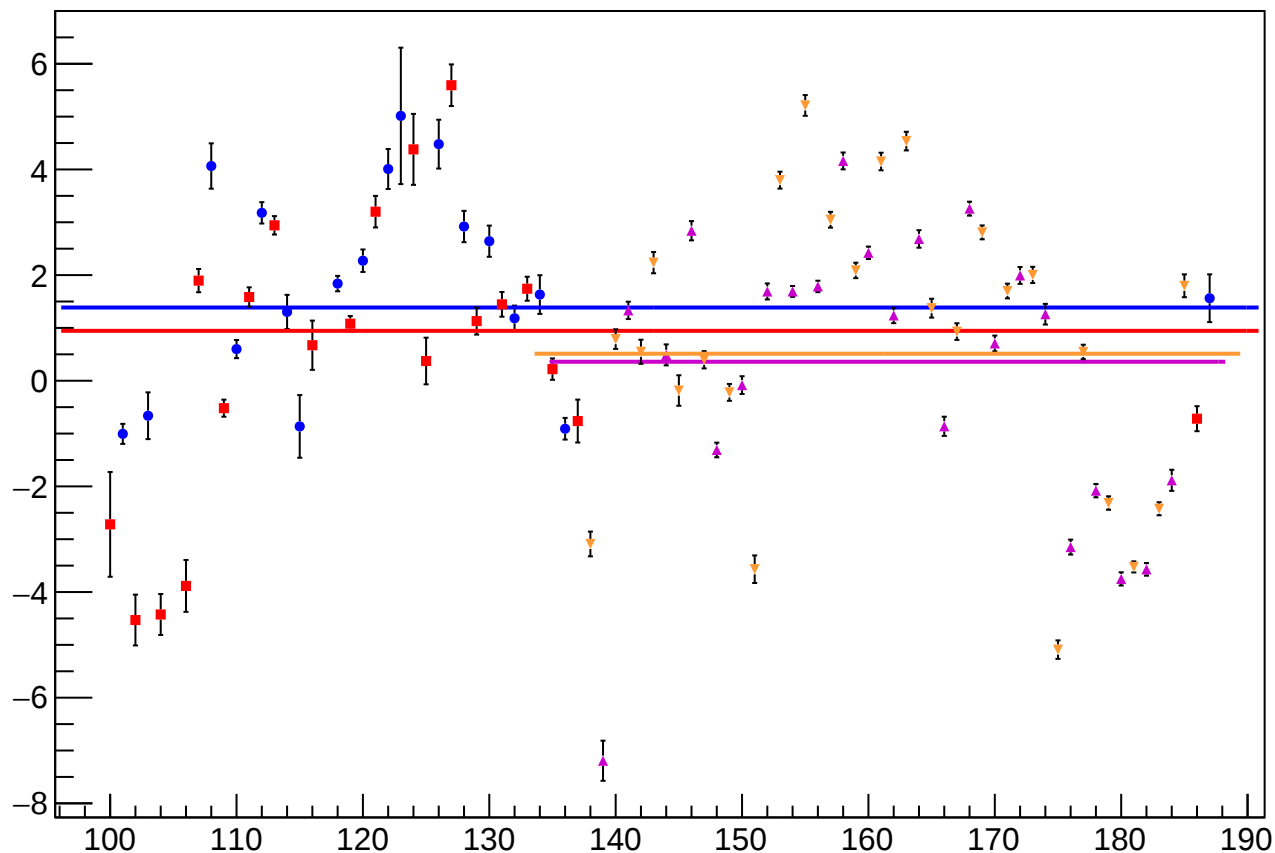
Right: 1.792+/-0.158 χ^2/NDF : 5.3/1

In: -16.608+/-0.038 χ^2/NDF : 48186.8/23

Out: -17.223+/-0.038 χ^2/NDF : 98884.2/25

All: -16.913+/-0.027 χ^2/NDF : 147203.8/49

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: 0.945 ± 0.056 χ^2/NDF : 999.4/19

Left In: 0.360 ± 0.031 χ^2/NDF : 6221.1/22

Left: 0.432 ± 0.022 χ^2/NDF : 13303.2/47

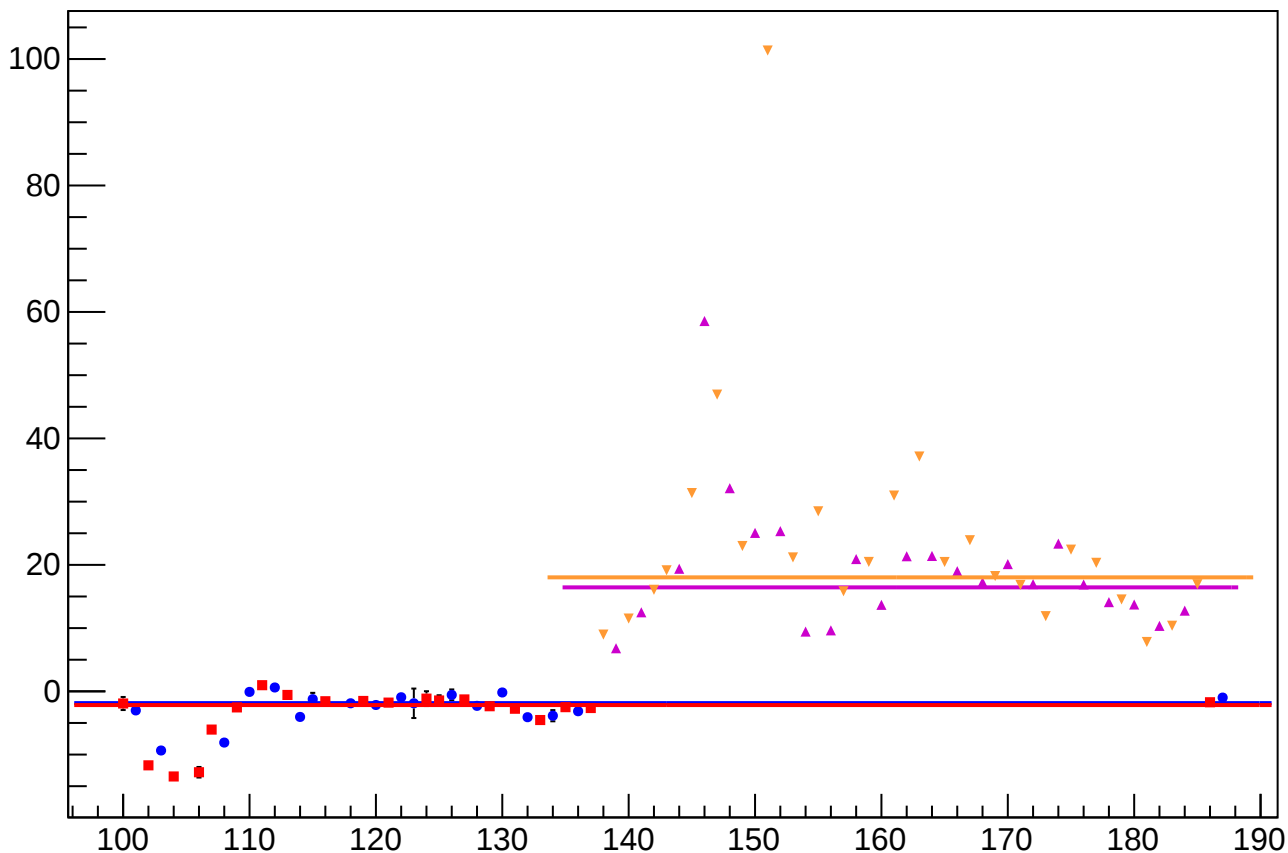
Right: 1.146 ± 0.041 χ^2/NDF : 1660.1/37

In: 0.564 ± 0.027 χ^2/NDF : 7078.8/40

Out: 0.618 ± 0.028 χ^2/NDF : 8114.6/44

All: 0.590 ± 0.020 χ^2/NDF : 15195.4/85

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: -2.169 ± 0.083 $\chi^2/\text{NDF}: 906.8/19$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

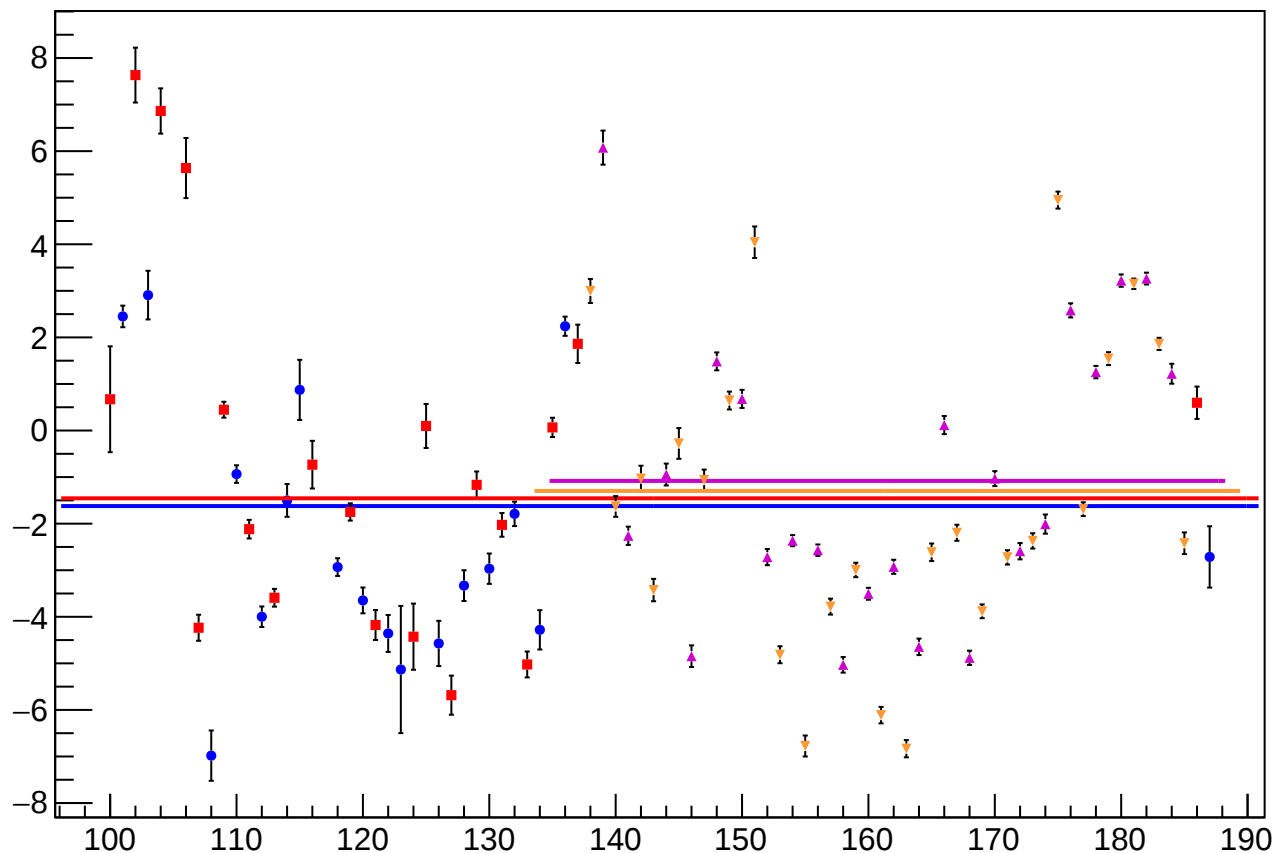
Right: -2.045 ± 0.064 $\chi^2/\text{NDF}: 1380.1/37$

In: 14.185 ± 0.035 $\chi^2/\text{NDF}: 70625.7/40$

Out: 14.390 ± 0.035 $\chi^2/\text{NDF}: 127356.9/44$

All: 14.288 ± 0.025 $\chi^2/\text{NDF}: 197999.6/85$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



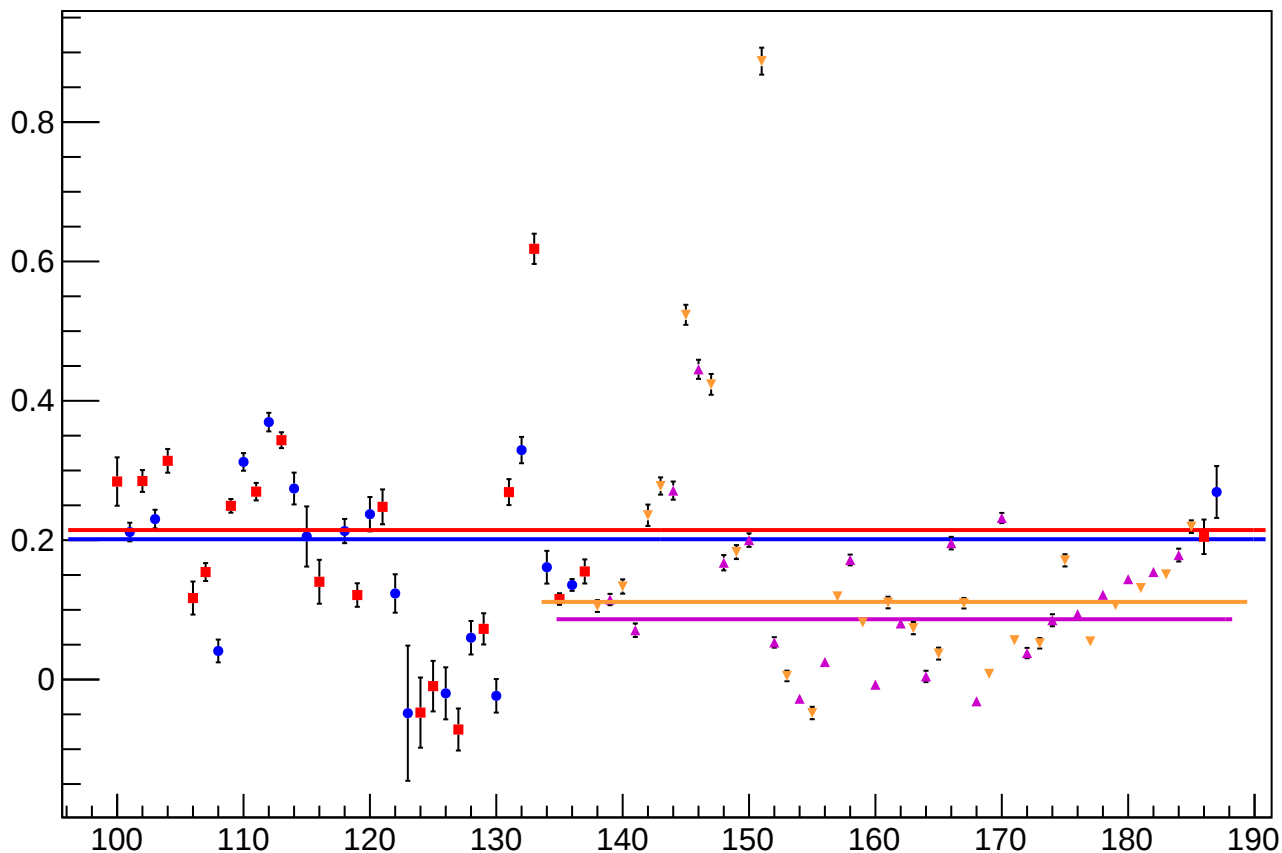
Right In: -1.622 ± 0.071 $\chi^2/\text{NDF}: 1256.0/17$
 Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$
 Right Out: -1.456 ± 0.064 $\chi^2/\text{NDF}: 1544.1/19$
 Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$
 Right: -1.531 ± 0.047 $\chi^2/\text{NDF}: 2803.2/37$

In: -1.183 ± 0.031 $\chi^2/\text{NDF}: 8027.9/40$
 Out: -1.335 ± 0.031 $\chi^2/\text{NDF}: 9474.0/44$

All: -1.257 ± 0.022 $\chi^2/\text{NDF}: 17513.8/85$

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: 0.214 $\pm$ 0.004 χ^2 /NDF: 999.1/19

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

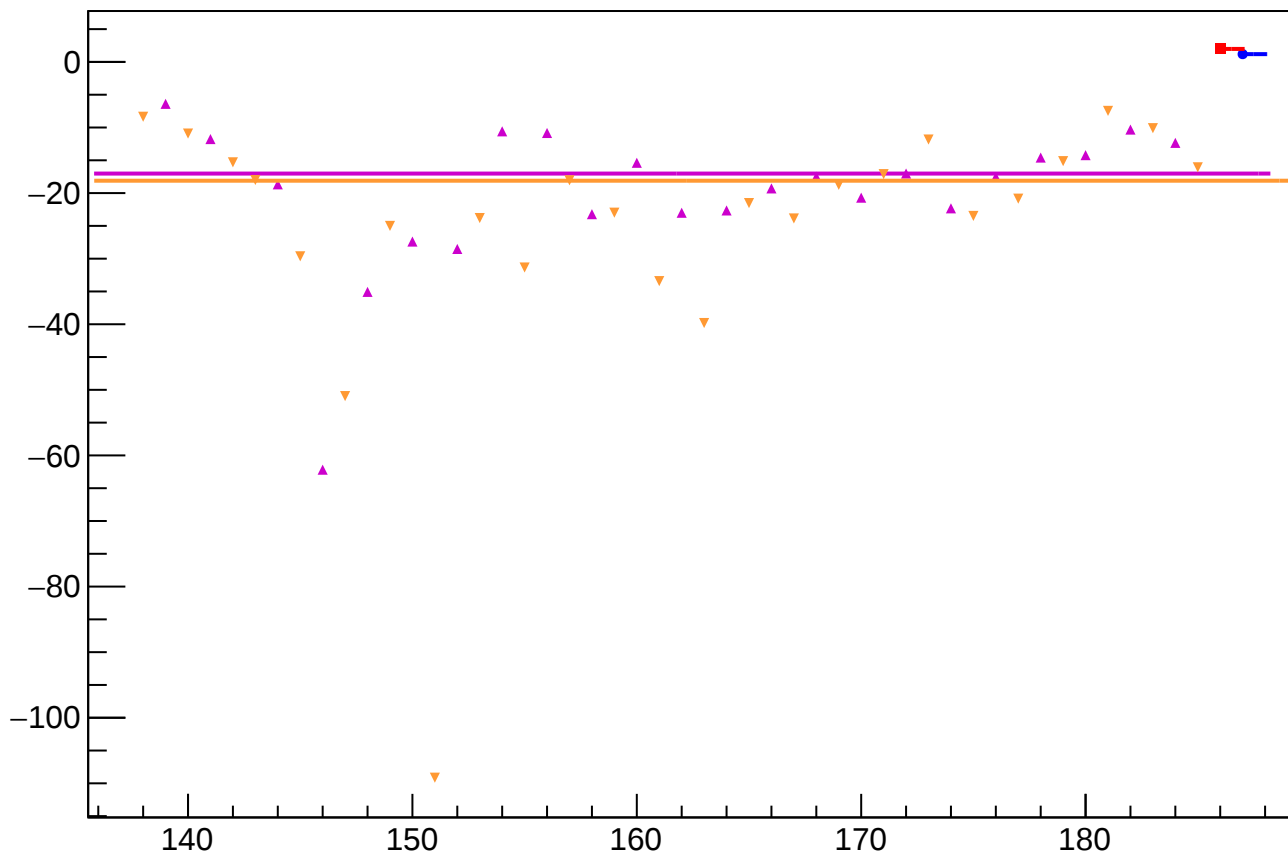
Right: 0.209 $\pm$ 0.003 χ^2 /NDF: 1638.7/37

In: 0.100 $\pm$ 0.001 χ^2 /NDF:4947.9/40

Out: 0.128 $\pm$ 0.001 χ^2 /NDF:6168.1/44

All: 0.113 $\pm$ 0.001 χ^2 /NDF: 11309.0/85

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: 1.982 ± 0.192 χ^2/NDF : 0.0/0

Left In: -17.024 ± 0.038 χ^2/NDF : 44141.8/22

Left: -17.557 ± 0.027 χ^2/NDF : 133072.9/47

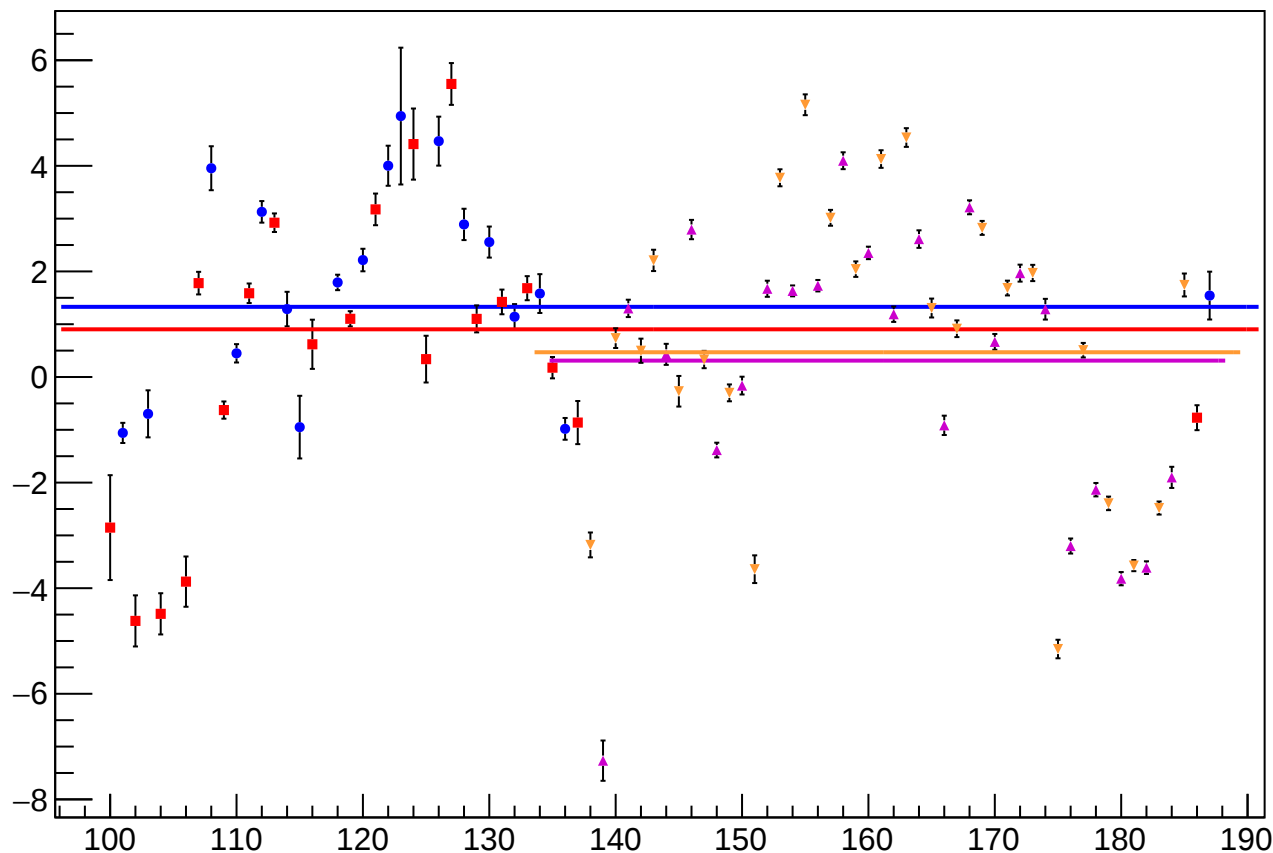
Right: 1.730 ± 0.158 χ^2/NDF : 5.4/1

In: -16.697 ± 0.038 χ^2/NDF : 48251.9/23

Out: -17.320 ± 0.038 χ^2/NDF : 99102.8/25

All: -17.006 ± 0.027 χ^2/NDF : 147490.1/49

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: 0.903 ± 0.056 $\chi^2/\text{NDF}: 1011.0/19$

Left In: 0.311 ± 0.031 $\chi^2/\text{NDF}: 6183.1/22$

Left: 0.386 ± 0.022 $\chi^2/\text{NDF}: 13288.8/47$

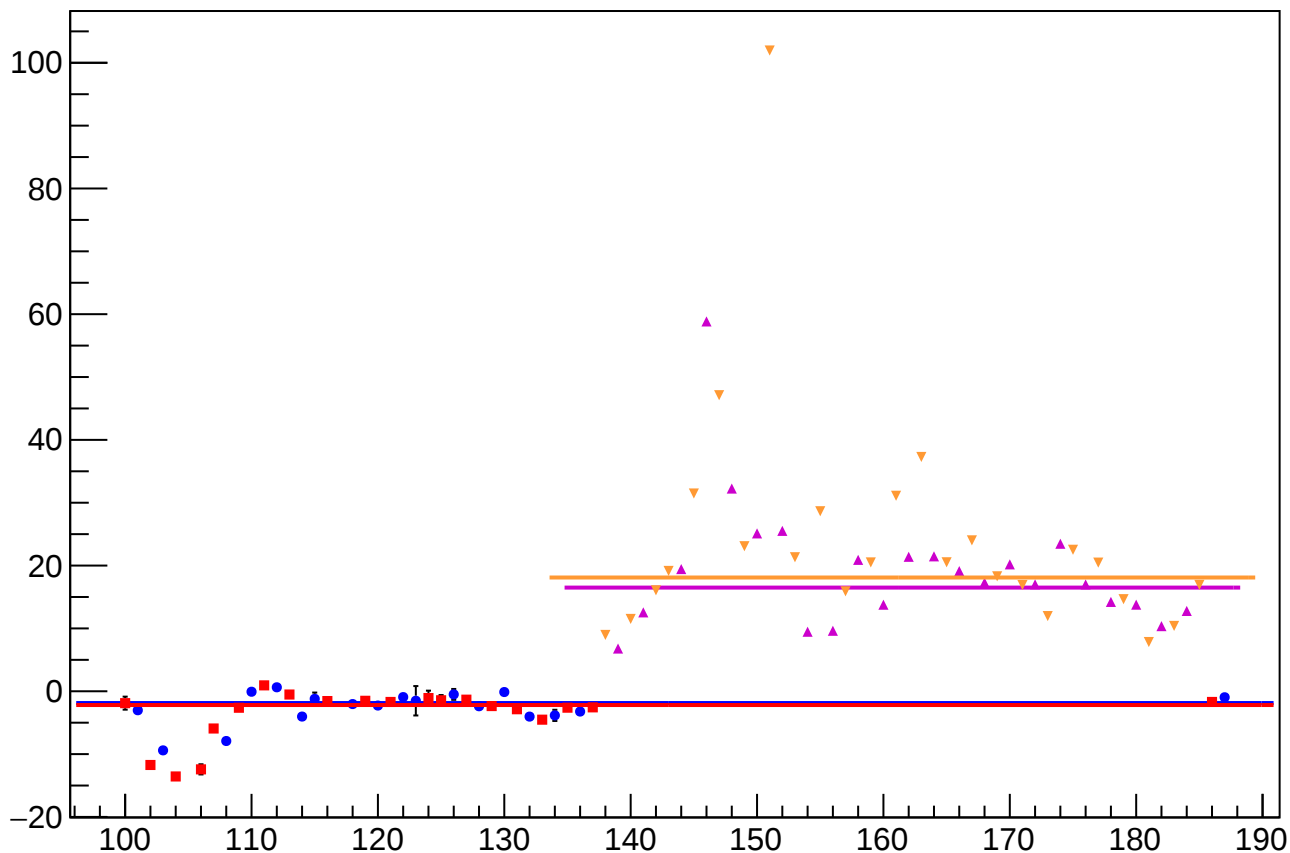
Right: 1.097 ± 0.042 $\chi^2/\text{NDF}: 1674.5/37$

In: 0.513 ± 0.027 $\chi^2/\text{NDF}: 7040.2/40$

Out: 0.577 ± 0.028 $\chi^2/\text{NDF}: 8148.9/44$

All: 0.544 ± 0.020 $\chi^2/\text{NDF}: 15191.7/85$

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: -2.190 ± 0.083 $\chi^2/\text{NDF}: 903.6/19$

Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$

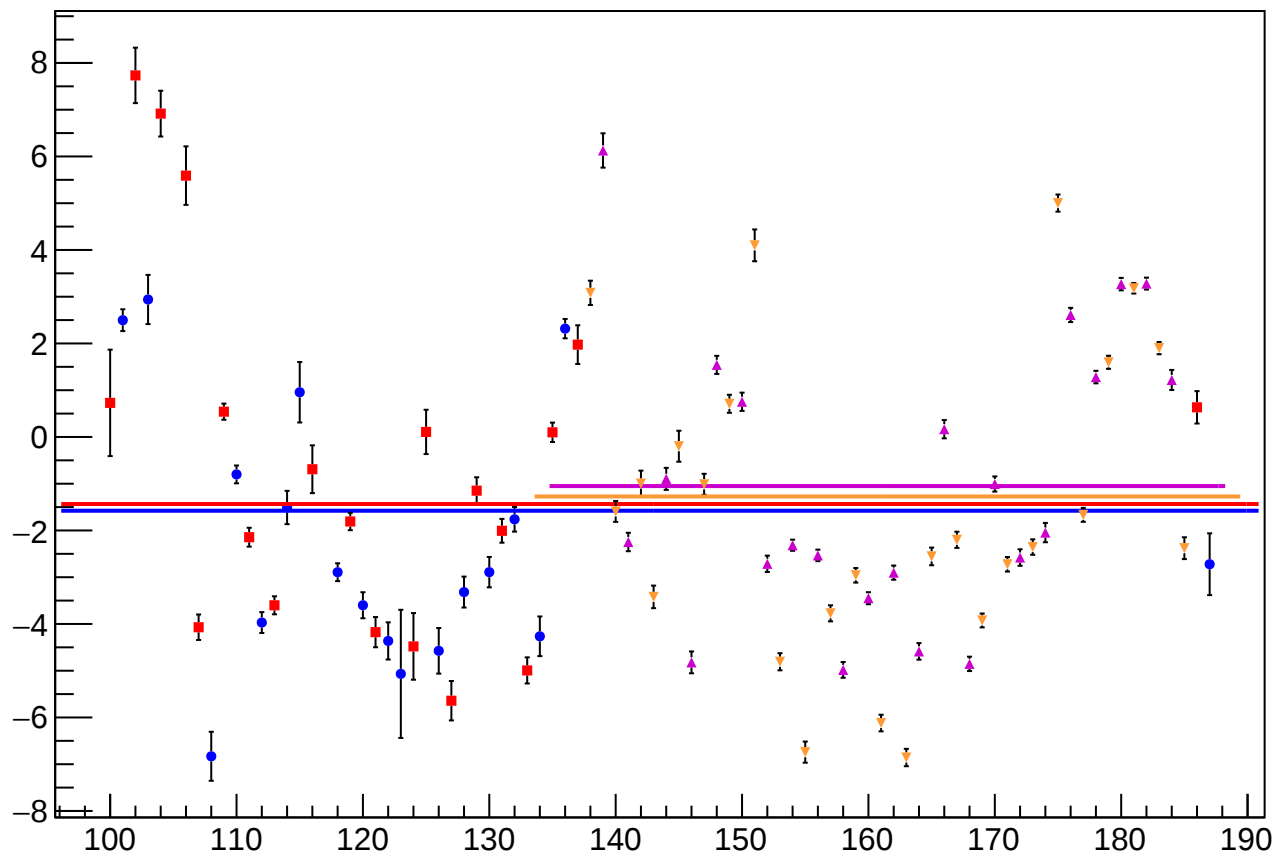
Right: -2.063 ± 0.064 $\chi^2/\text{NDF}: 1378.0/37$

In: 14.234 ± 0.035 $\chi^2/\text{NDF}: 70644.4/40$

Out: 14.440 ± 0.035 $\chi^2/\text{NDF}: 127616.7/44$

All: 14.337 ± 0.025 $\chi^2/\text{NDF}: 198278.1/85$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



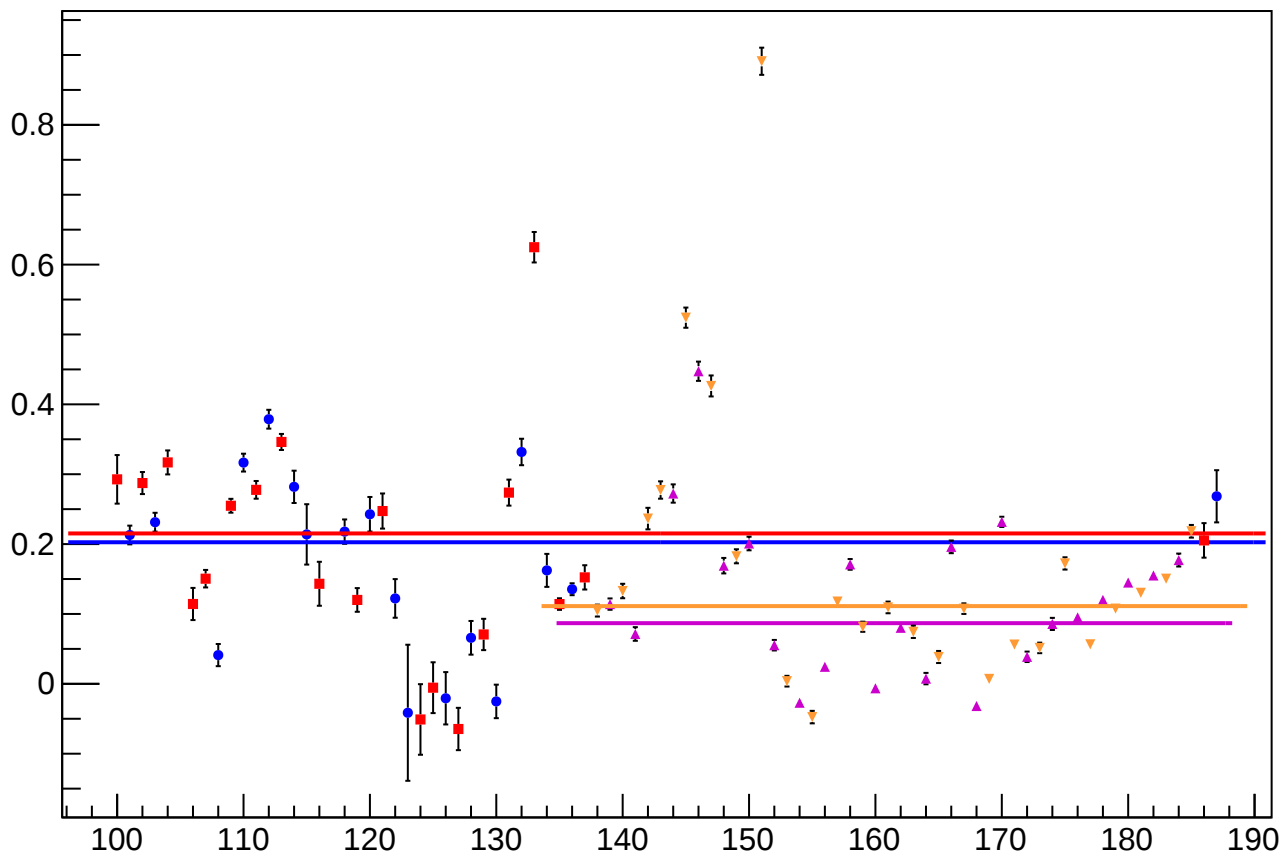
Right In: -1.578 ± 0.071 χ^2/NDF : 1261.2/17
 Left Out: -1.273 ± 0.036 χ^2/NDF : 7951.6/24
 Right Out: -1.434 ± 0.064 χ^2/NDF : 1555.7/19
 Left In: -1.050 ± 0.034 χ^2/NDF : 6673.4/22

Left: -1.156 ± 0.025 χ^2/NDF : 14645.3/47
 Right: -1.499 ± 0.048 χ^2/NDF : 2819.1/37

In: -1.149 ± 0.031 χ^2/NDF : 7979.6/40
 Out: -1.311 ± 0.031 χ^2/NDF : 9512.1/44

All: -1.229 ± 0.022 χ^2/NDF : 17505.3/85

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.203 $\pm$ 0.004 χ^2 /NDF: 661.8/17

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.215 $\pm$ 0.004 χ^2 /NDF: 1031.6/19

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3598.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8197.1/47

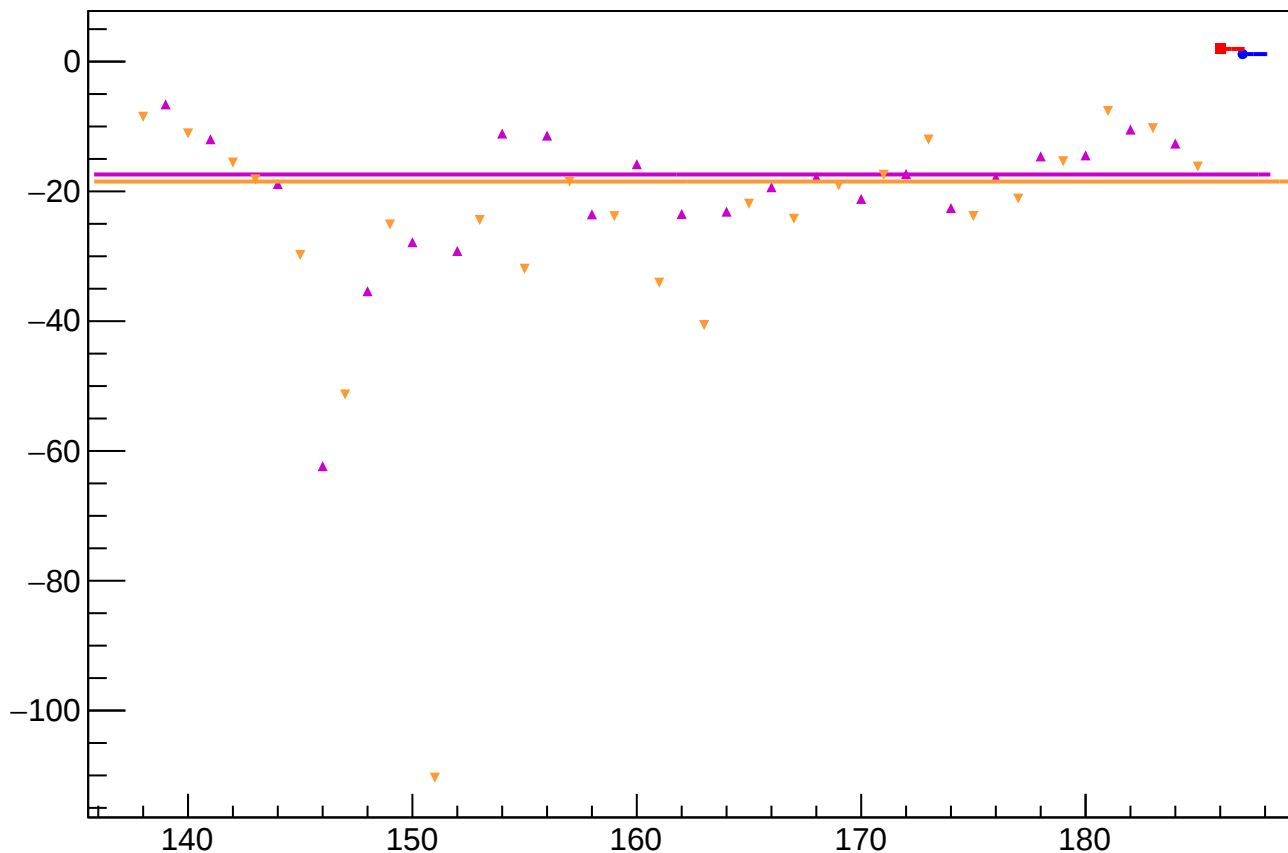
Right: 0.210 $\pm$ 0.003 χ^2 /NDF: 1698.6/37

In: 0.100 $\pm$ 0.001 χ^2 /NDF:4955.5/40

Out: 0.128 $\pm$ 0.001 χ^2 /NDF:6188.4/44

All: 0.114 $\pm$ 0.001 χ^2 /NDF: 11330.0/85

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.157 $\pm$ 0.283 χ^2 /NDF: 0.0/0

Left Out: -18.479 $\pm$ 0.040 χ^2 /NDF:87883.4/24

Right Out: 1.954 $\pm$ 0.192 χ^2 /NDF: 0.0/0

Left In: -17.393 $\pm$ 0.039 χ^2 /NDF:43178.9/22

Left: -17.926 $\pm$ 0.028 χ^2 /NDF: 131443.9/47

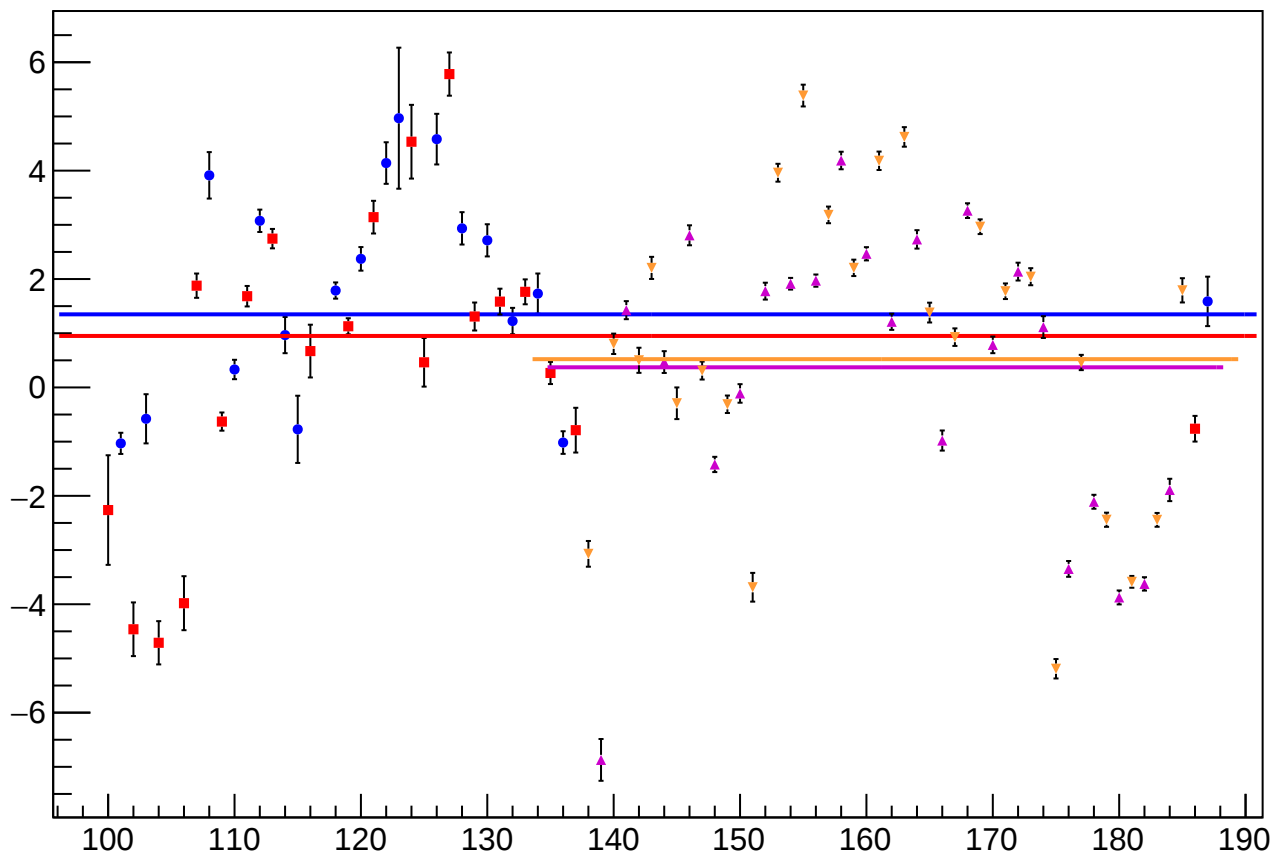
Right: 1.702 $\pm$ 0.159 χ^2 /NDF: 5.4/1

In: -17.049 $\pm$ 0.039 χ^2 /NDF:47386.1/23

Out: -17.645 $\pm$ 0.039 χ^2 /NDF:98705.3/25

All: -17.344 $\pm$ 0.027 χ^2 /NDF: 146209.7/49

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: 0.950 ± 0.057 χ^2/NDF : 982.9/19

Left In: 0.371 ± 0.031 χ^2/NDF : 6217.4/22

Left: 0.443 ± 0.023 χ^2/NDF : 13283.4/47

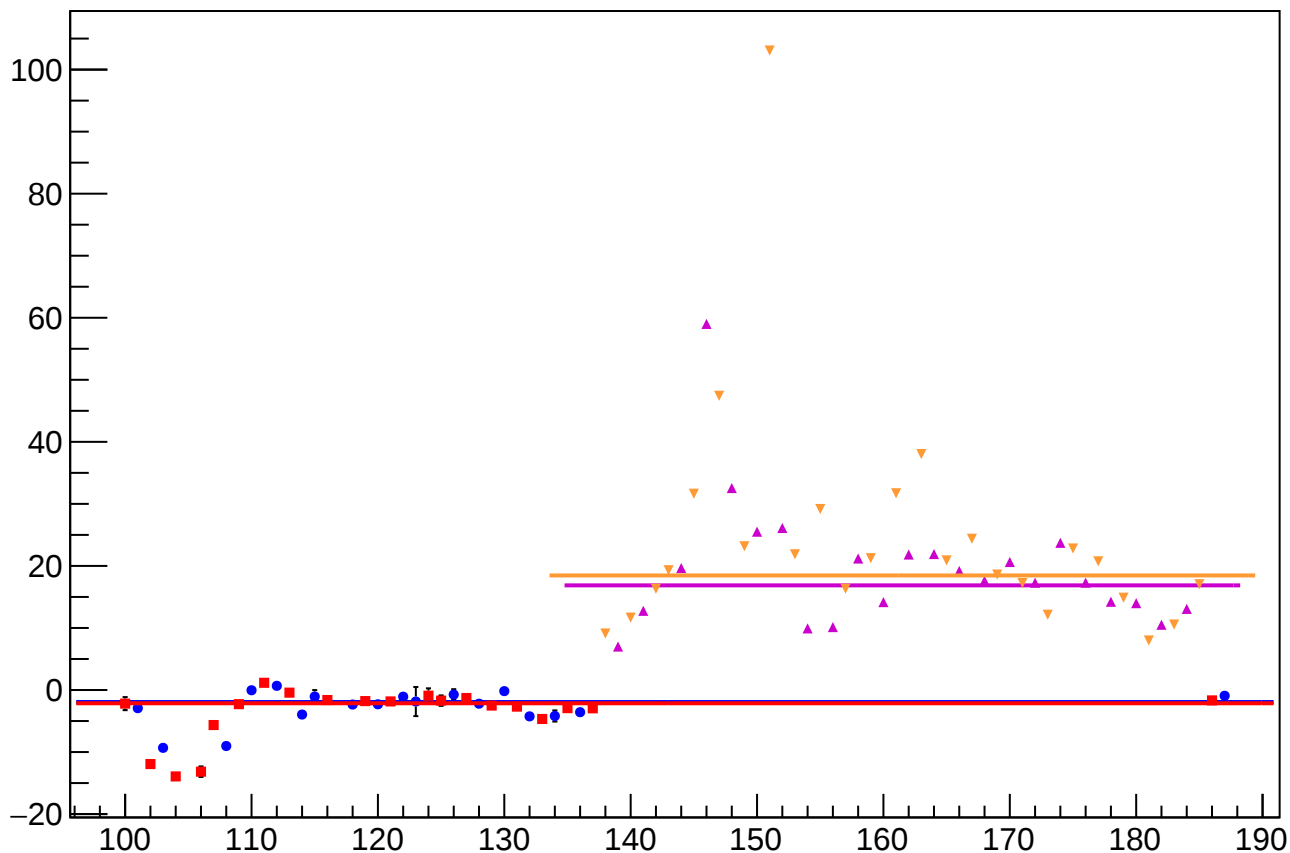
Right: 1.132 ± 0.042 χ^2/NDF : 1641.5/37

In: 0.568 ± 0.028 χ^2/NDF : 7048.7/40

Out: 0.628 ± 0.029 χ^2/NDF : 8079.9/44

All: 0.597 ± 0.020 χ^2/NDF : 15130.8/85

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: -2.138 ± 0.084 $\chi^2/\text{NDF}: 922.9/19$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

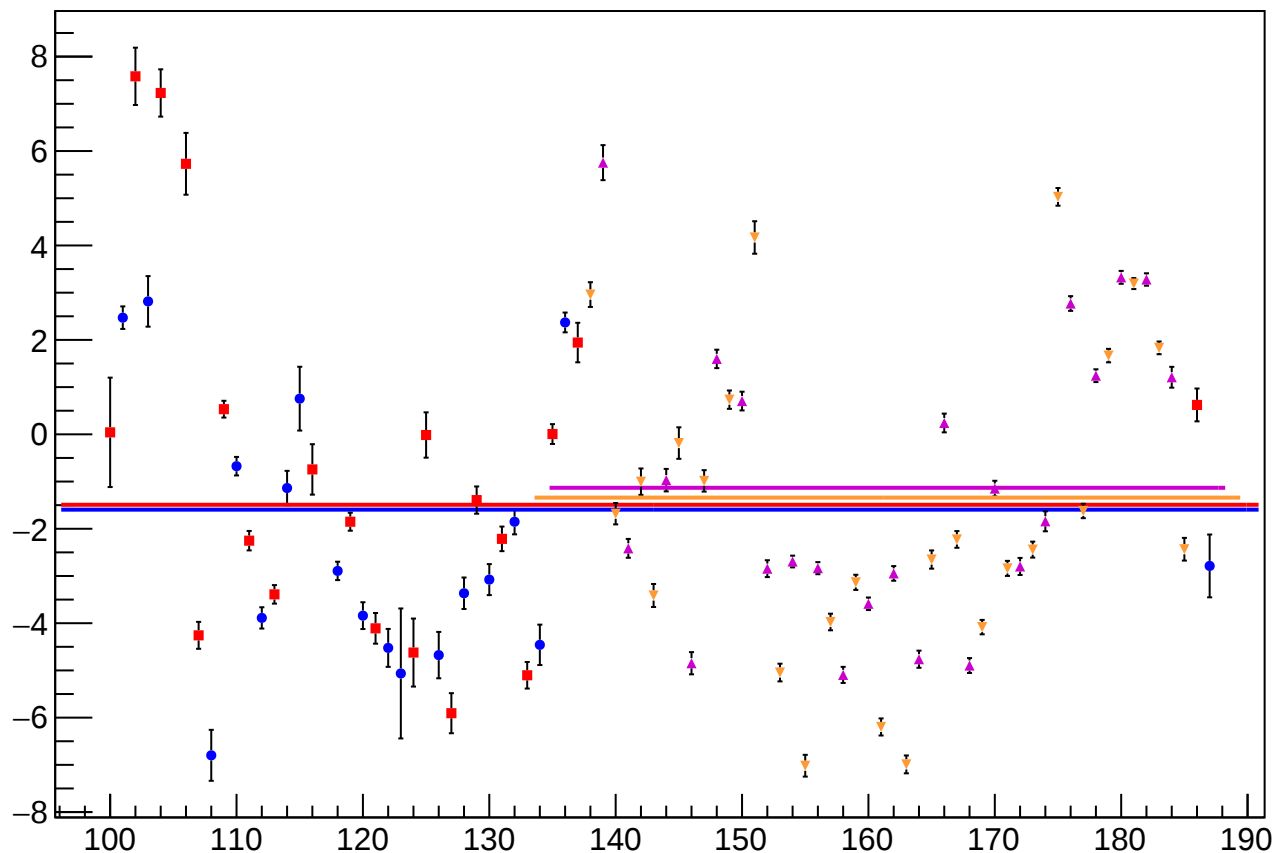
Right: -2.058 ± 0.065 $\chi^2/\text{NDF}: 1421.0/37$

In: 14.517 ± 0.036 $\chi^2/\text{NDF}: 69979.8/40$

Out: 14.708 ± 0.036 $\chi^2/\text{NDF}: 126840.6/44$

All: 14.613 ± 0.026 $\chi^2/\text{NDF}: 196834.4/85$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.595 ± 0.072 $\chi^2/\text{NDF}: 1251.0/17$

Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$

Right Out: -1.492 ± 0.066 $\chi^2/\text{NDF}: 1515.9/19$

Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$

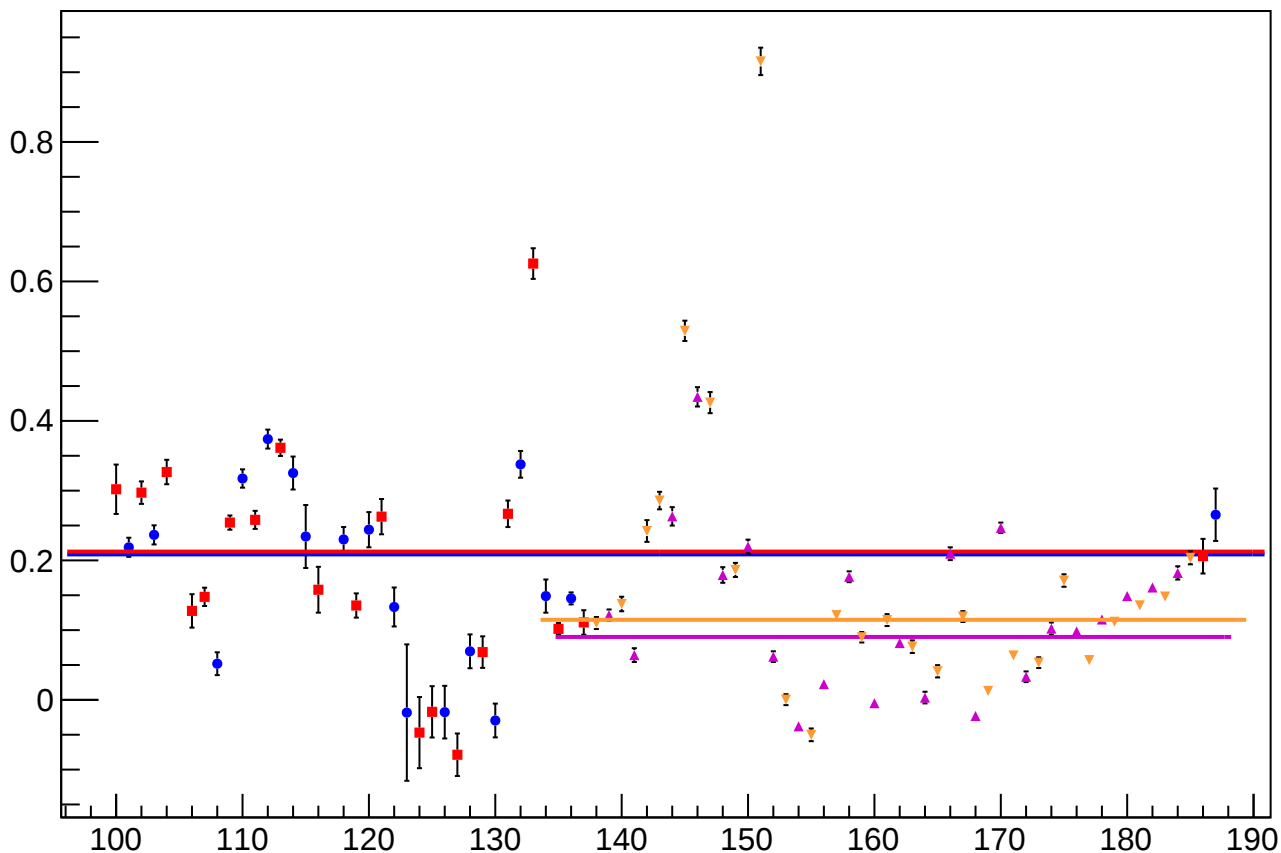
Right: -1.539 ± 0.049 $\chi^2/\text{NDF}: 2768.0/37$

In: -1.220 ± 0.031 $\chi^2/\text{NDF}: 7992.9/40$

Out: -1.376 ± 0.032 $\chi^2/\text{NDF}: 9427.3/44$

All: -1.297 ± 0.022 $\chi^2/\text{NDF}: 17432.4/85$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.209 $\pm$ 0.004 χ^2 /NDF: 626.3/17

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.213 $\pm$ 0.004 χ^2 /NDF: 1097.2/19

Left In: 0.090 $\pm$ 0.002 χ^2 /NDF:3676.5/22

Left: 0.102 $\pm$ 0.001 χ^2 /NDF: 8228.2/47

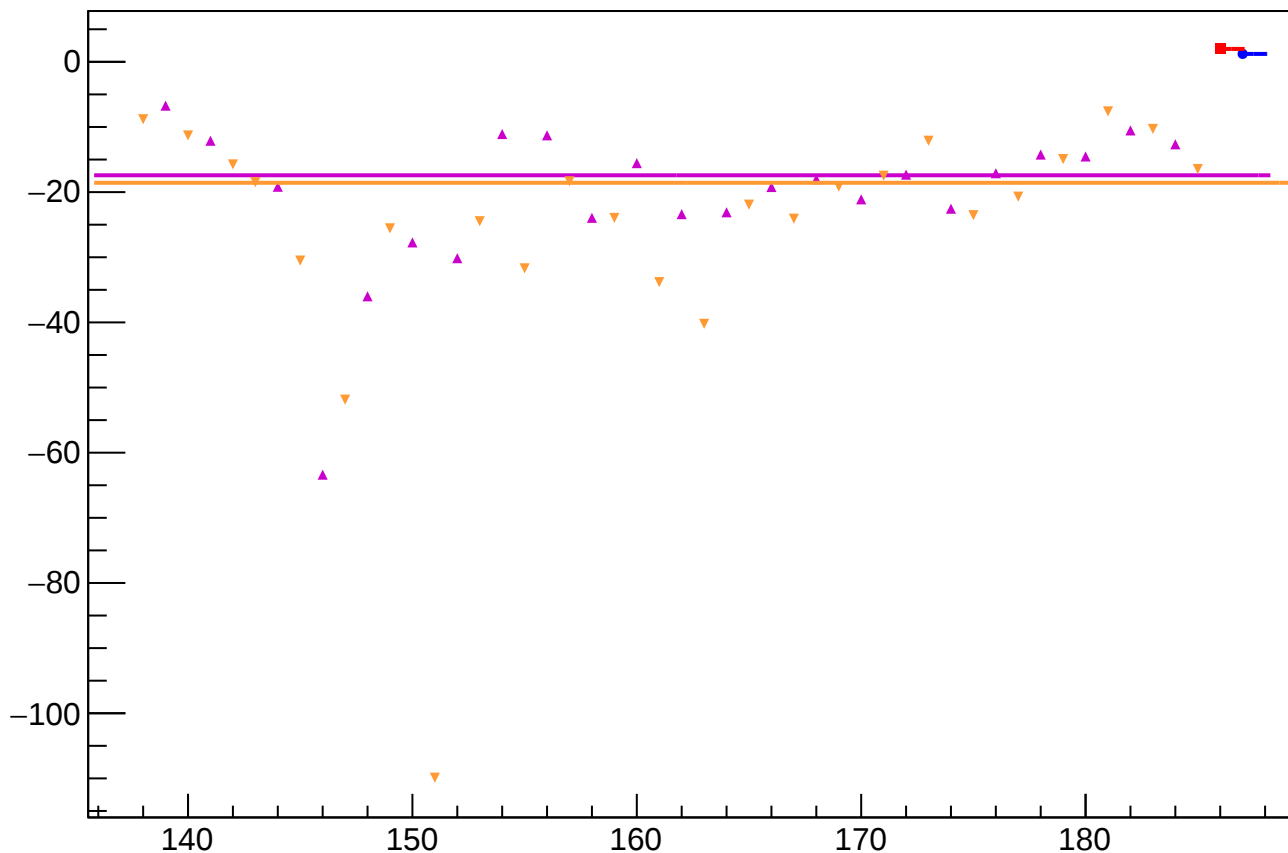
Right: 0.211 $\pm$ 0.003 χ^2 /NDF: 1724.1/37

In: 0.104 $\pm$ 0.001 χ^2 /NDF:5003.1/40

Out: 0.131 $\pm$ 0.001 χ^2 /NDF:6108.7/44

All: 0.117 $\pm$ 0.001 χ^2 /NDF: 11273.6/85

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.216 ± 0.284 $\chi^2/\text{NDF}: 0.0/0$

Left Out: -18.566 ± 0.040 $\chi^2/\text{NDF}: 86389.6/24$

Right Out: 1.981 ± 0.193 $\chi^2/\text{NDF}: 0.0/0$

Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$

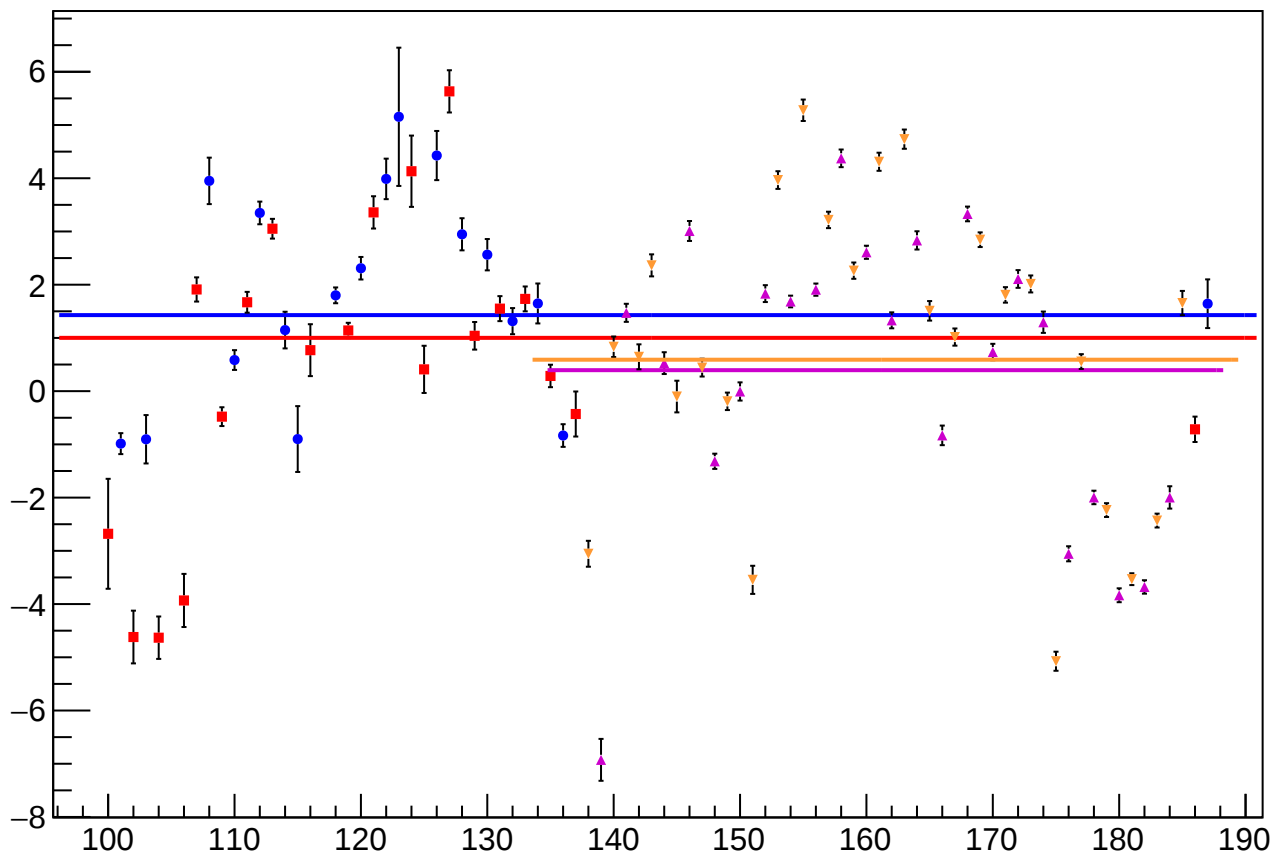
Right: 1.739 ± 0.160 $\chi^2/\text{NDF}: 5.0/1$

In: -17.064 ± 0.039 $\chi^2/\text{NDF}: 47723.2/23$

Out: -17.719 ± 0.039 $\chi^2/\text{NDF}: 97217.7/25$

All: -17.389 ± 0.028 $\chi^2/\text{NDF}: 145081.0/49$

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: 1.001 ± 0.058 χ^2/NDF : 970.9/19

Left In: 0.394 ± 0.032 χ^2/NDF : 6059.8/22

Left: 0.488 ± 0.023 χ^2/NDF : 12874.6/47

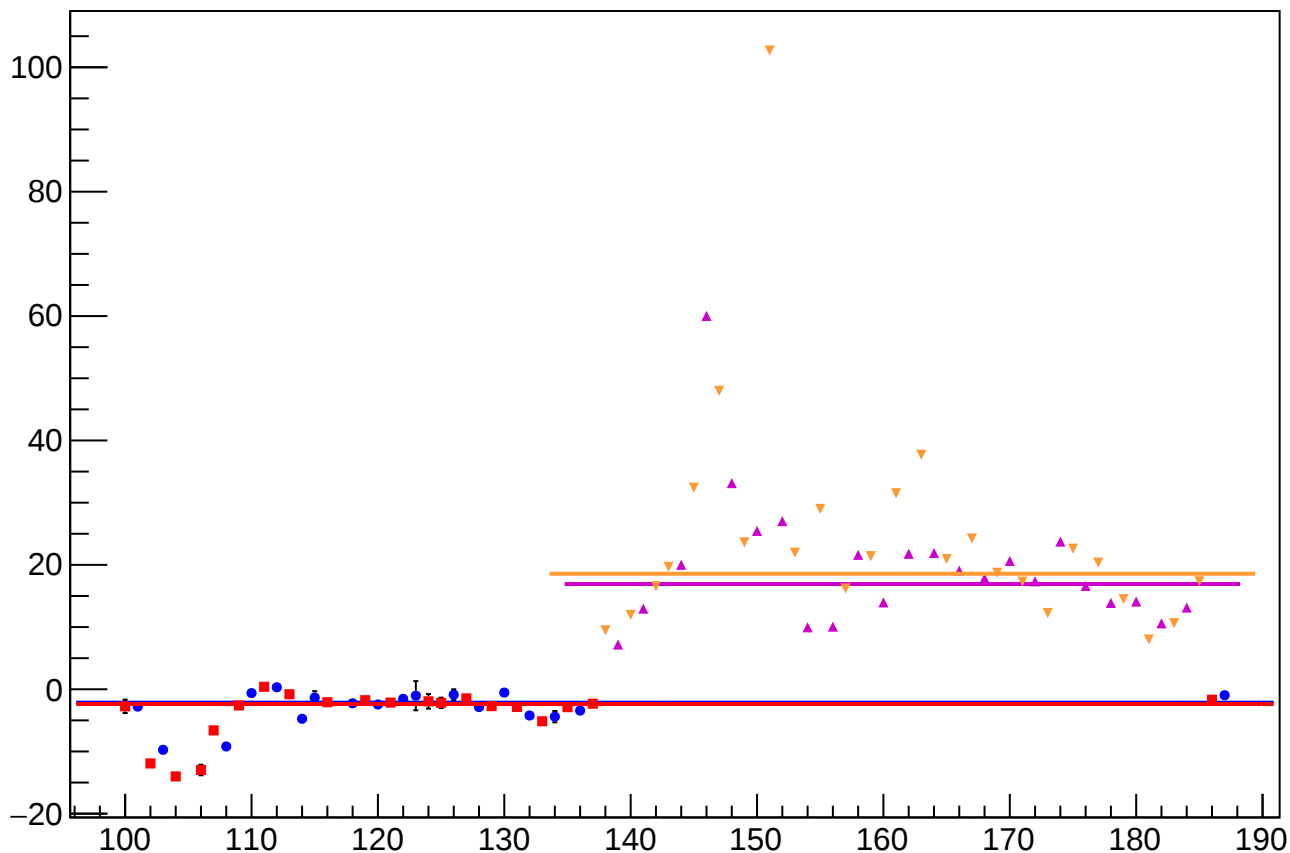
Right: 1.197 ± 0.043 χ^2/NDF : 1595.8/37

In: 0.602 ± 0.028 χ^2/NDF : 6874.4/40

Out: 0.692 ± 0.029 χ^2/NDF : 7805.0/44

All: 0.646 ± 0.020 χ^2/NDF : 14684.4/85

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: -2.376 ± 0.086 $\chi^2/\text{NDF}: 860.6/19$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

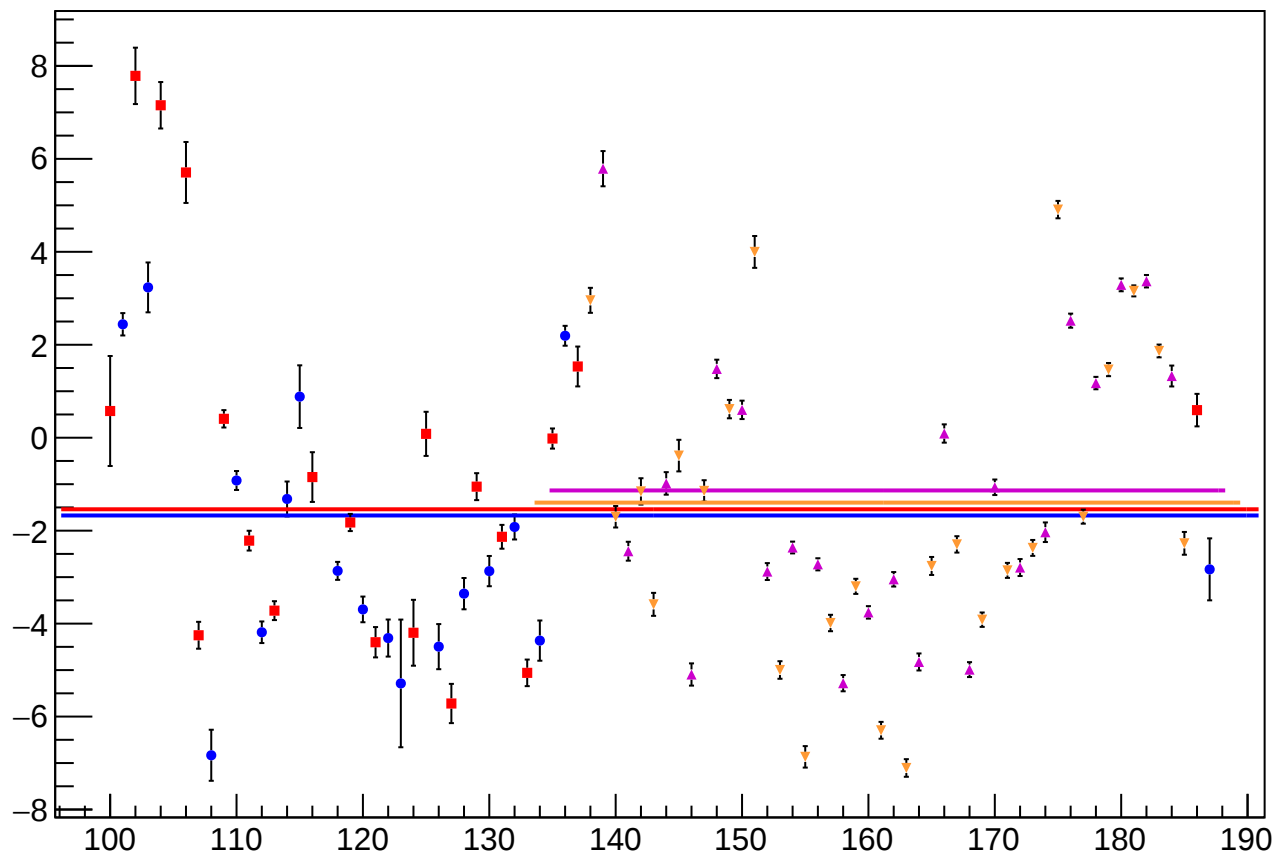
Right: -2.286 ± 0.066 $\chi^2/\text{NDF}: 1322.7/37$

In: 14.552 ± 0.036 $\chi^2/\text{NDF}: 70429.0/40$

Out: 14.797 ± 0.036 $\chi^2/\text{NDF}: 125700.3/44$

All: 14.674 ± 0.026 $\chi^2/\text{NDF}: 196151.8/85$

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: -1.540 ± 0.067 $\chi^2/\text{NDF}: 1487.4/19$

Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$

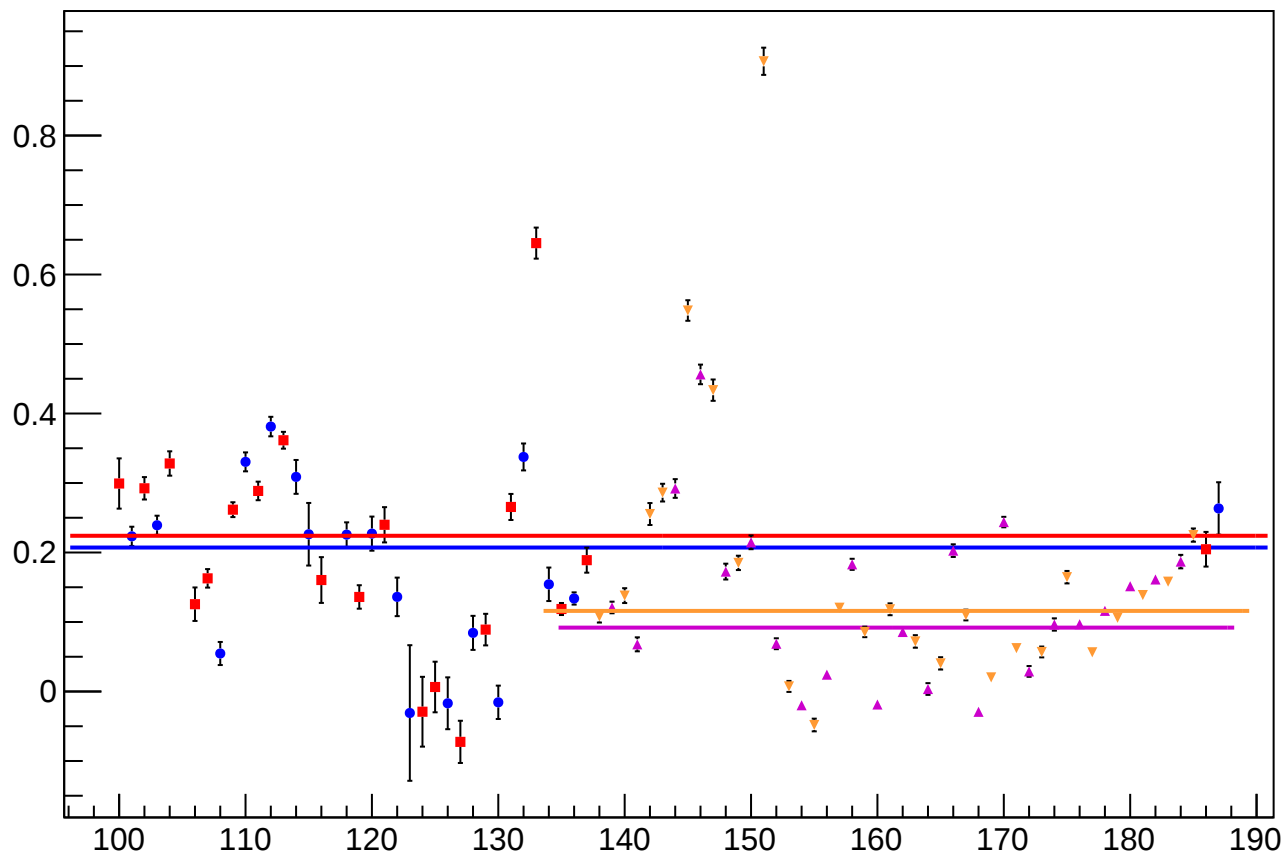
Right: -1.601 ± 0.049 $\chi^2/\text{NDF}: 2683.2/37$

In: -1.237 ± 0.032 $\chi^2/\text{NDF}: 7836.0/40$

Out: -1.430 ± 0.032 $\chi^2/\text{NDF}: 9142.5/44$

All: -1.332 ± 0.023 $\chi^2/\text{NDF}: 16996.8/85$

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: 0.224 ± 0.004 χ^2/NDF : 995.6/19

Left In: 0.092 ± 0.002 χ^2/NDF : 3631.4/22

Left: 0.103 ± 0.001 χ^2/NDF : 8207.3/47

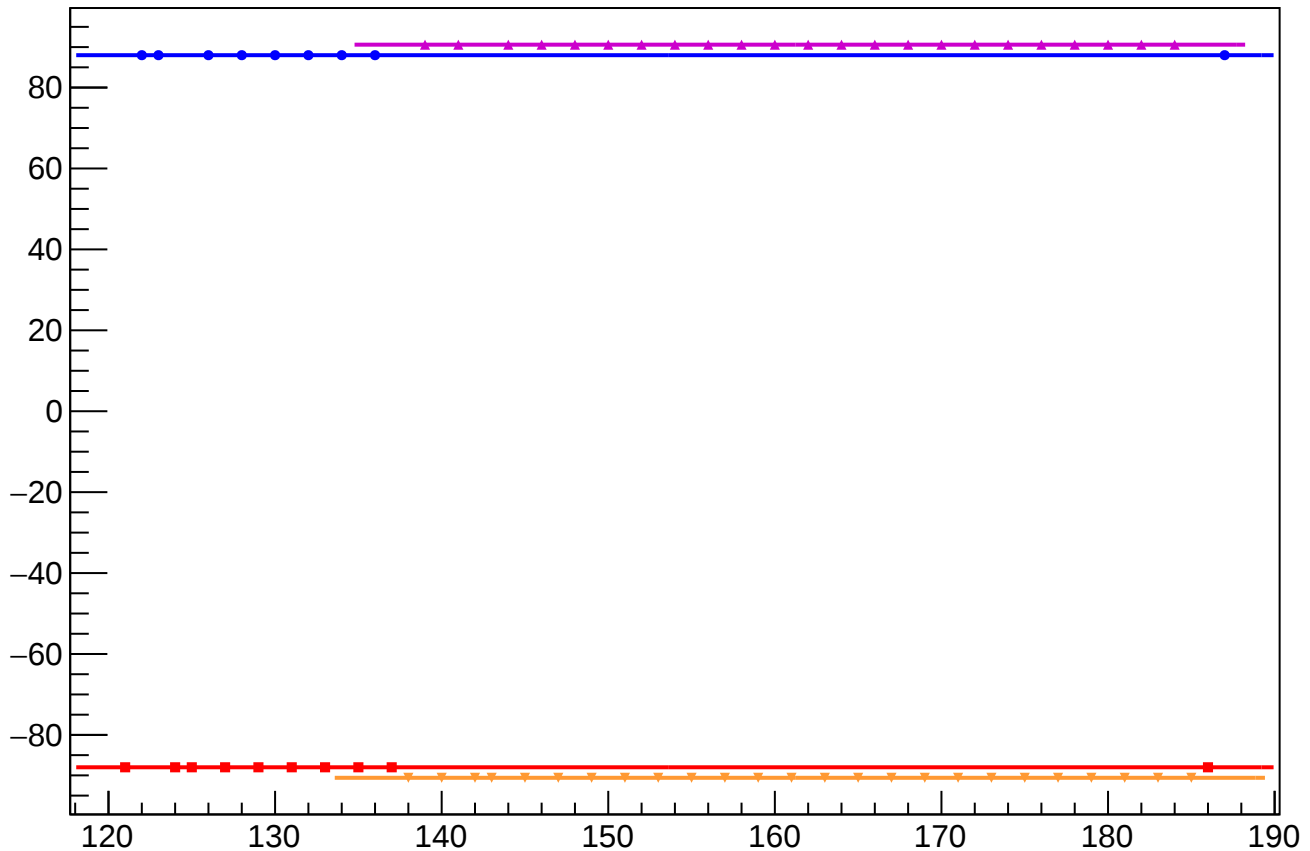
Right: 0.217 ± 0.003 χ^2/NDF : 1631.9/37

In: 0.105 ± 0.001 χ^2/NDF : 4906.0/40

Out: 0.133 ± 0.002 χ^2/NDF : 6141.1/44

All: 0.119 ± 0.001 χ^2/NDF : 11221.4/85

VWienAngle_mean vs Slug, Sign Corrected



Right In: 88.001 $\pm$ 0.000 χ^2/NDF : 661381.0/8

Left Out: -90.599 $\pm$ 0.000 χ^2/NDF : 6053403.0/24

Right Out: -88.001 $\pm$ 0.000 χ^2/NDF : 137123.0/9

Left In: 90.599 $\pm$ 0.000 χ^2/NDF : 5932436.0/22

Left: -2.410 $\pm$ 0.000 χ^2/NDF : 30521213250005045

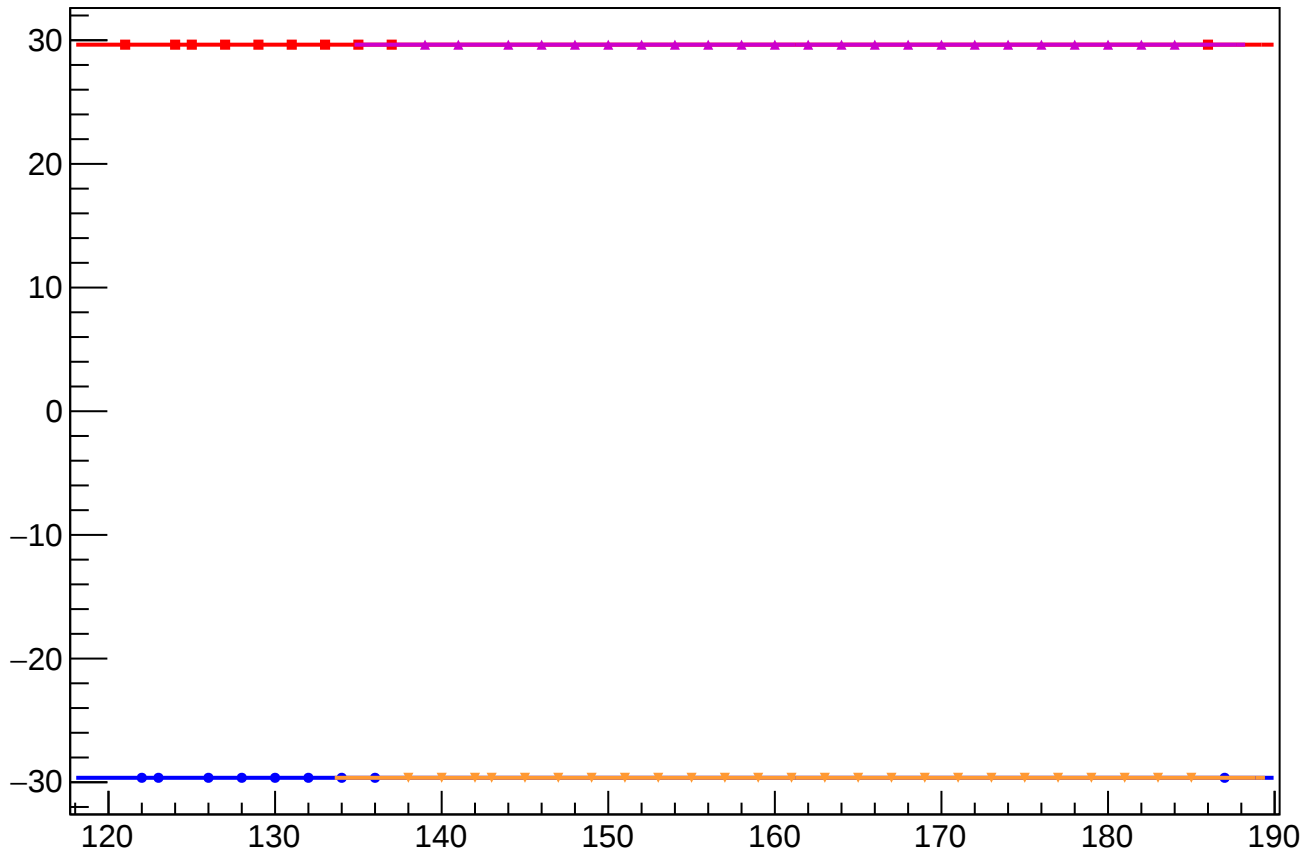
Right: 0.000 $\pm$ 0.000 χ^2/NDF : 54983278628510165

In: 90.173 $\pm$ 0.000 χ^2/NDF : 200431109351641949

Out: -90.192 $\pm$ 0.000 χ^2/NDF : 2021483929467831

All: -2.024 $\pm$ 0.000 χ^2/NDF : 3602300542464

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.641 $\pm$ 0.000 χ^2 /NDF: 431336.5/8

Left Out: -29.641 $\pm$ 0.000 χ^2 /NDF: 654199.2/24

Right Out: 29.641 $\pm$ 0.000 χ^2 /NDF: 29774.8/9

Left In: 29.641 $\pm$ 0.000 χ^2 /NDF: 511825.6/22

Left: -0.789 $\pm$ 0.000 χ^2 /NDF: 32668496095314519

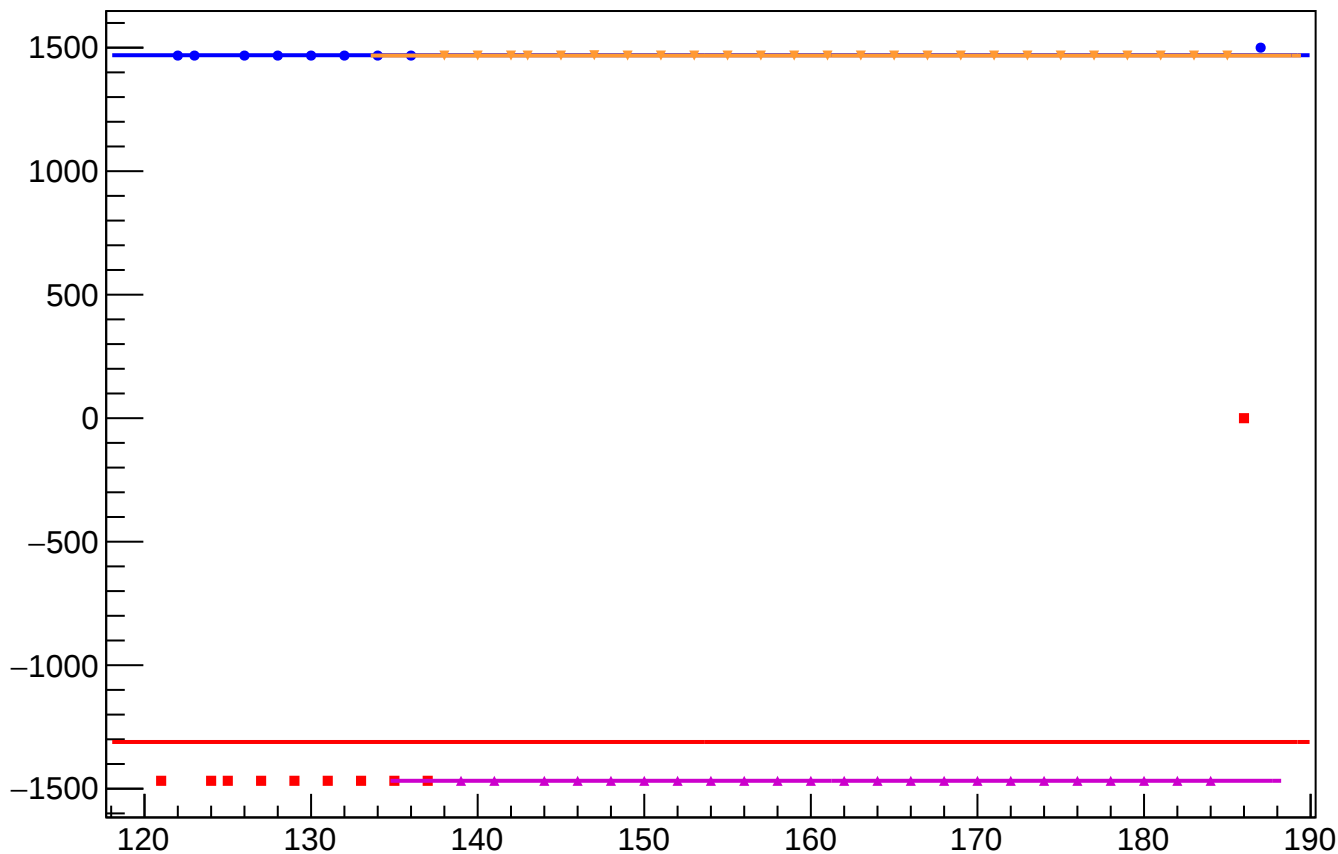
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 62378561003851237

In: 19.925 $\pm$ 0.000 χ^2 /NDF: 104309855935341076

Out: -20.349 $\pm$ 0.000 χ^2 /NDF: 1052035774987688

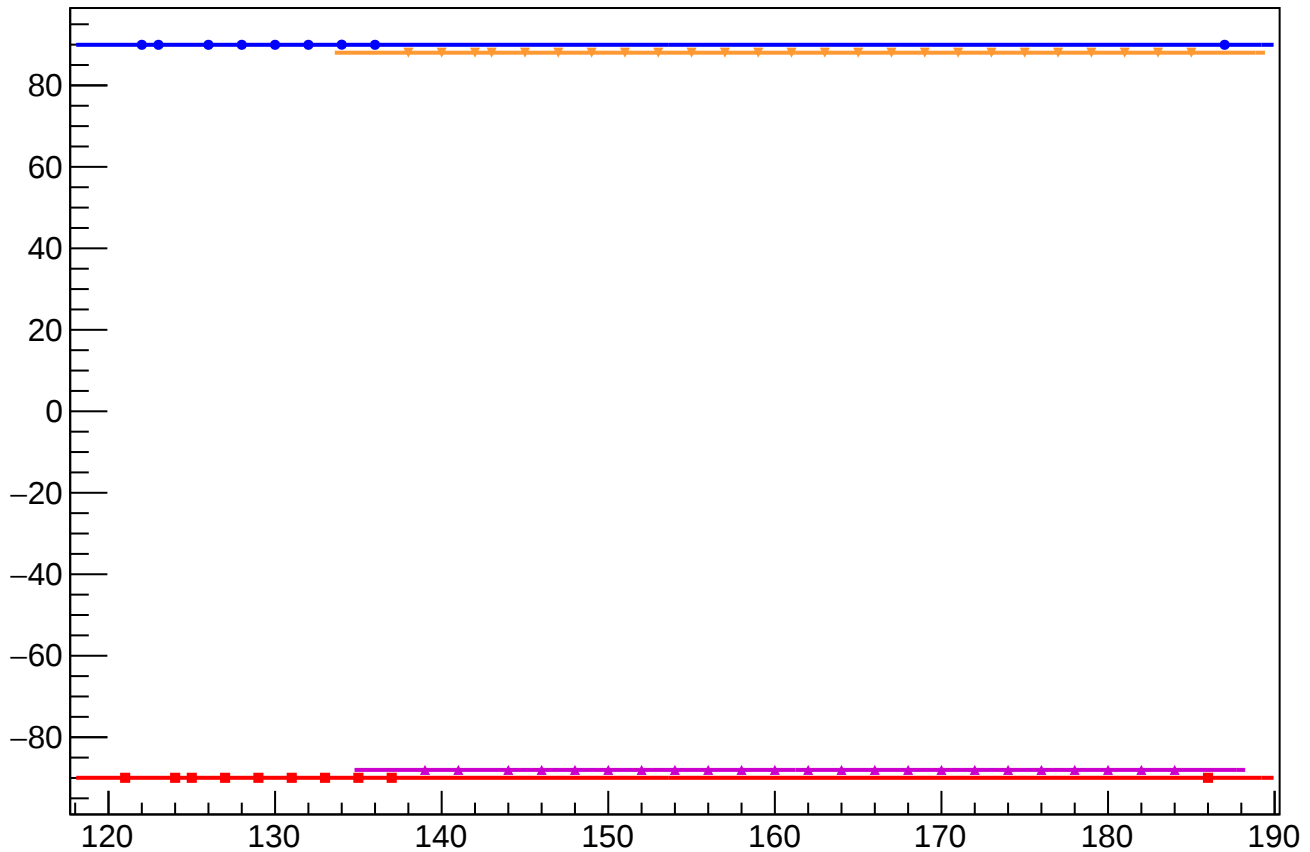
All: -0.662 $\pm$ 0.000 χ^2 /NDF: 3891006023493

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1469.423+/-0.000	χ^2/NDF : 15666505254721321231066247821524992.0/8	Left: 39.085+/-0.000	χ^2/NDF : 80133946076775322
Left Out: 1468.048+/-0.000	χ^2/NDF : 127960980922965975039069502046208.0/24	Right: 79.289+/-0.000	χ^2/NDF : 1445192312653167
Right Out: -1310.844+/-0.000	χ^2/NDF : 73122127718779489374121349928022179840.0/9	In: -986.561+/-0.000	χ^2/NDF : 2561073168758533
Left In: -1467.994+/-0.000	χ^2/NDF : 145848702340275035310993178624.0/22	Out: 1032.504+/-0.000	χ^2/NDF : 238485132006446
	All: 45.527+/-0.000		χ^2/NDF : 9459550657951

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 : 440449.4/9

Left In: -88.021+/-0.000

χ^2/NDF : 6084099.2/22

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

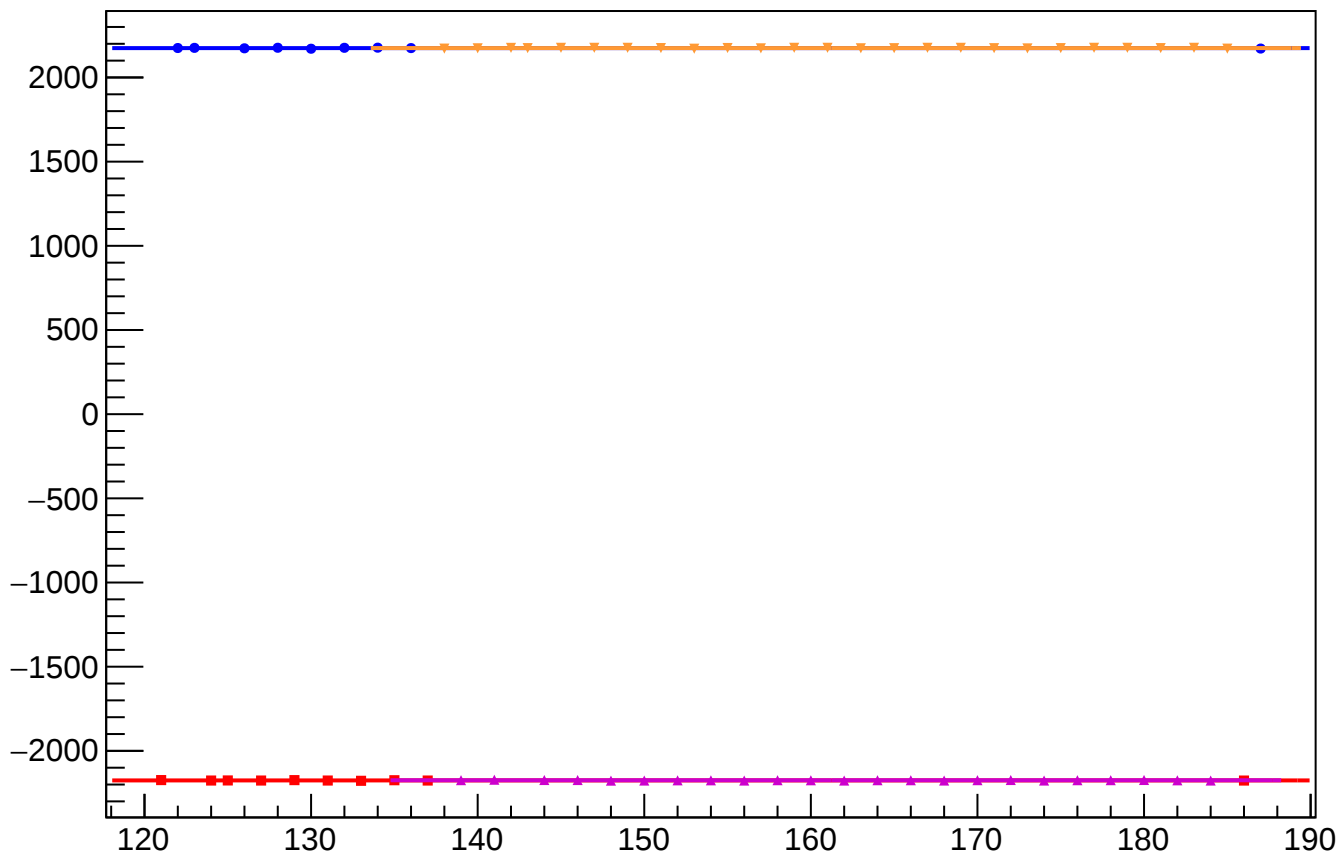
Right: 0.001+/-0.000 χ^2/NDF : 57459242081440422

In: -58.850+/-0.000 χ^2/NDF : 94024340927902593

Out: 60.125+/-0.000 χ^2/NDF : 94827853223929180

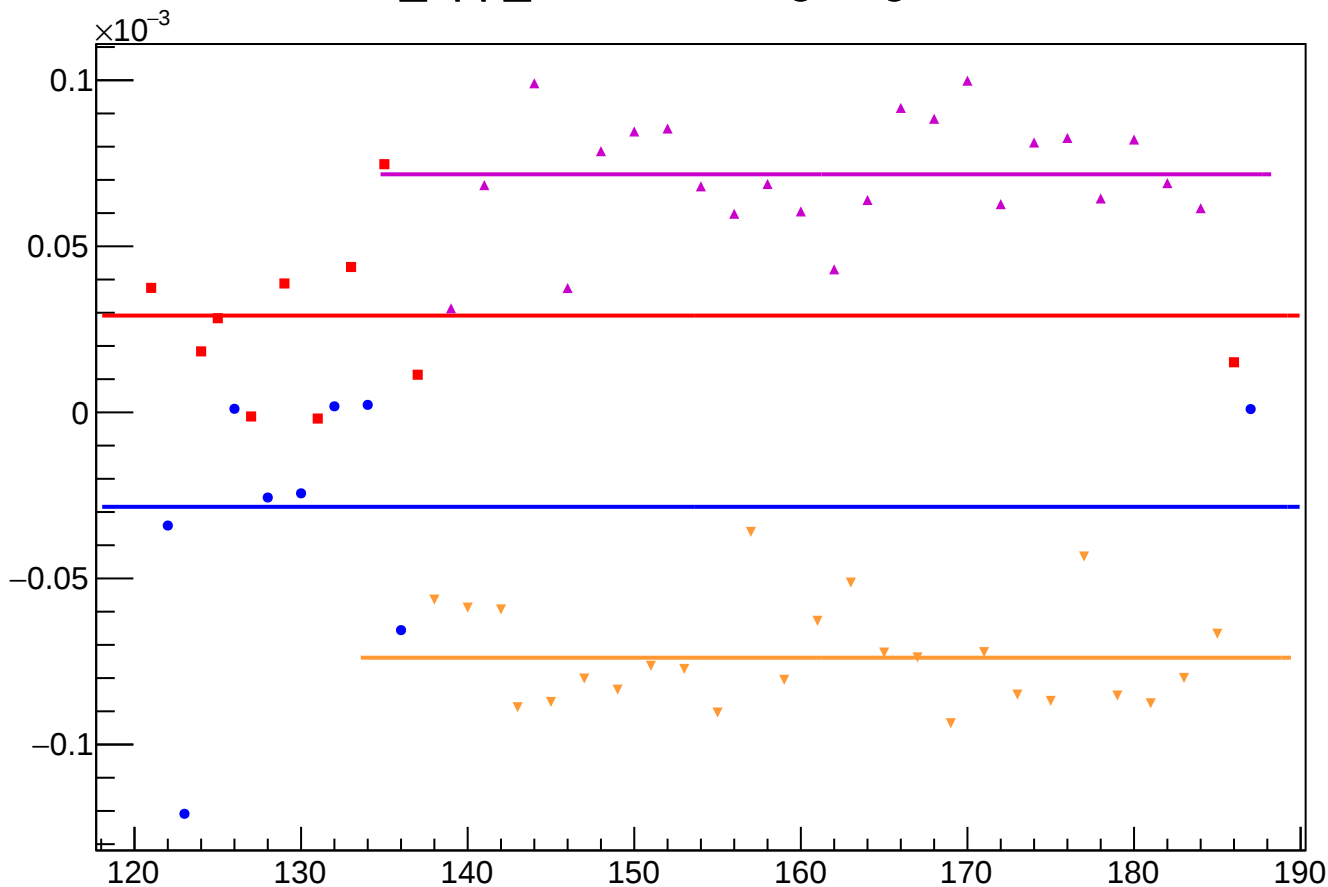
All: 1.967+/-0.000 χ^2/NDF : 34557768329104

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: -2175.530+/-0.000 χ^2/NDF : 635454900926319334322921220866048.0/9
 Left In: -2174.539+/-0.000 χ^2/NDF : 3400742562425168967494665391570944.0/22
 All: 48.529+/-0.000 χ^2/NDF : 2094406903438

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 : 10555404984281465

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

In: 0.000+/-0.000

χ^2/NDF : 3800278479770879839

Right Out: 0.000+/-0.000

χ^2/NDF : 203905439167963289616384.0/9

Out: -0.000+/-0.000

χ^2/NDF : 38304606982676688

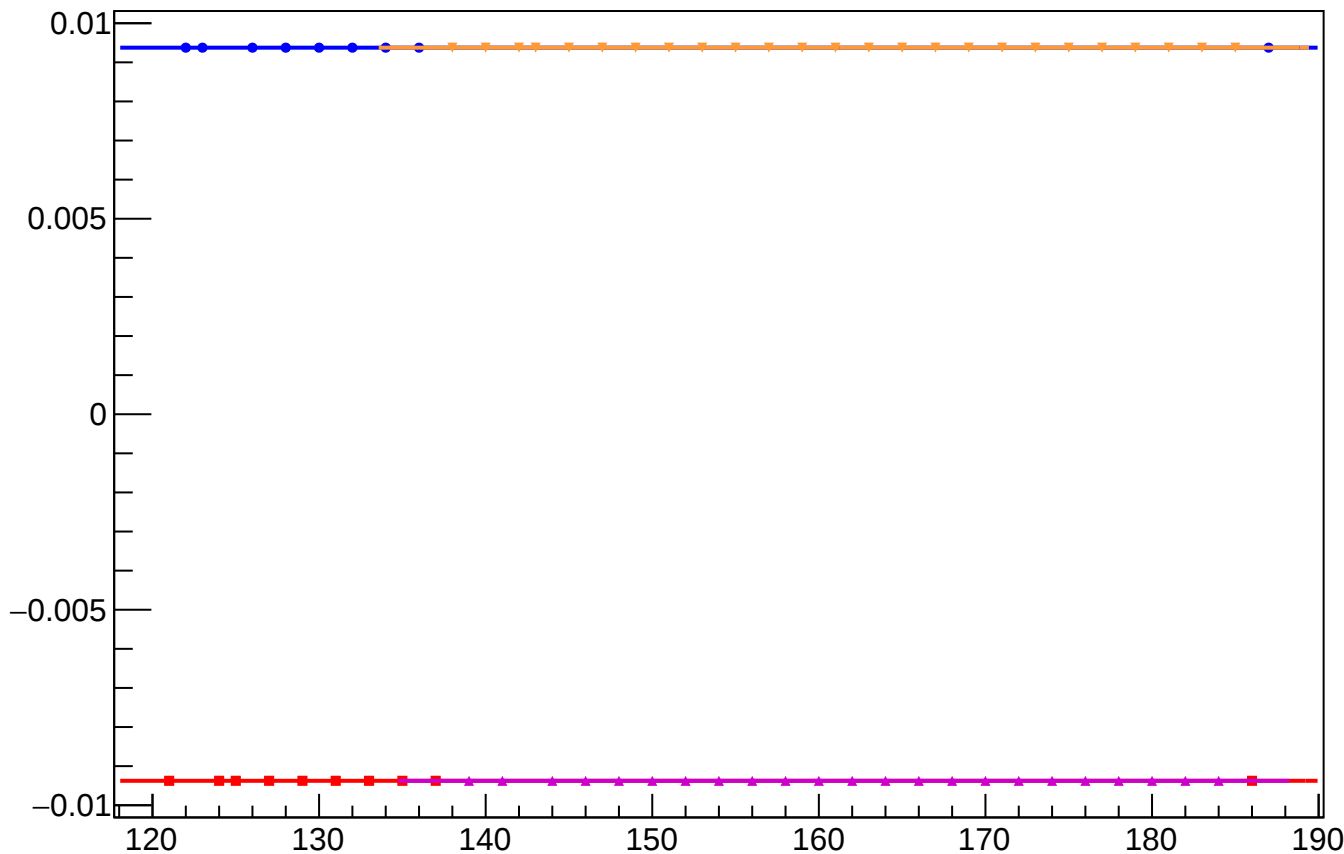
Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

All: -0.000+/-0.000

χ^2/NDF : 2176505199492

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 : 0.0/9

Left In: -0.009+/-0.000 χ^2/NDF : 0.1/22

Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718

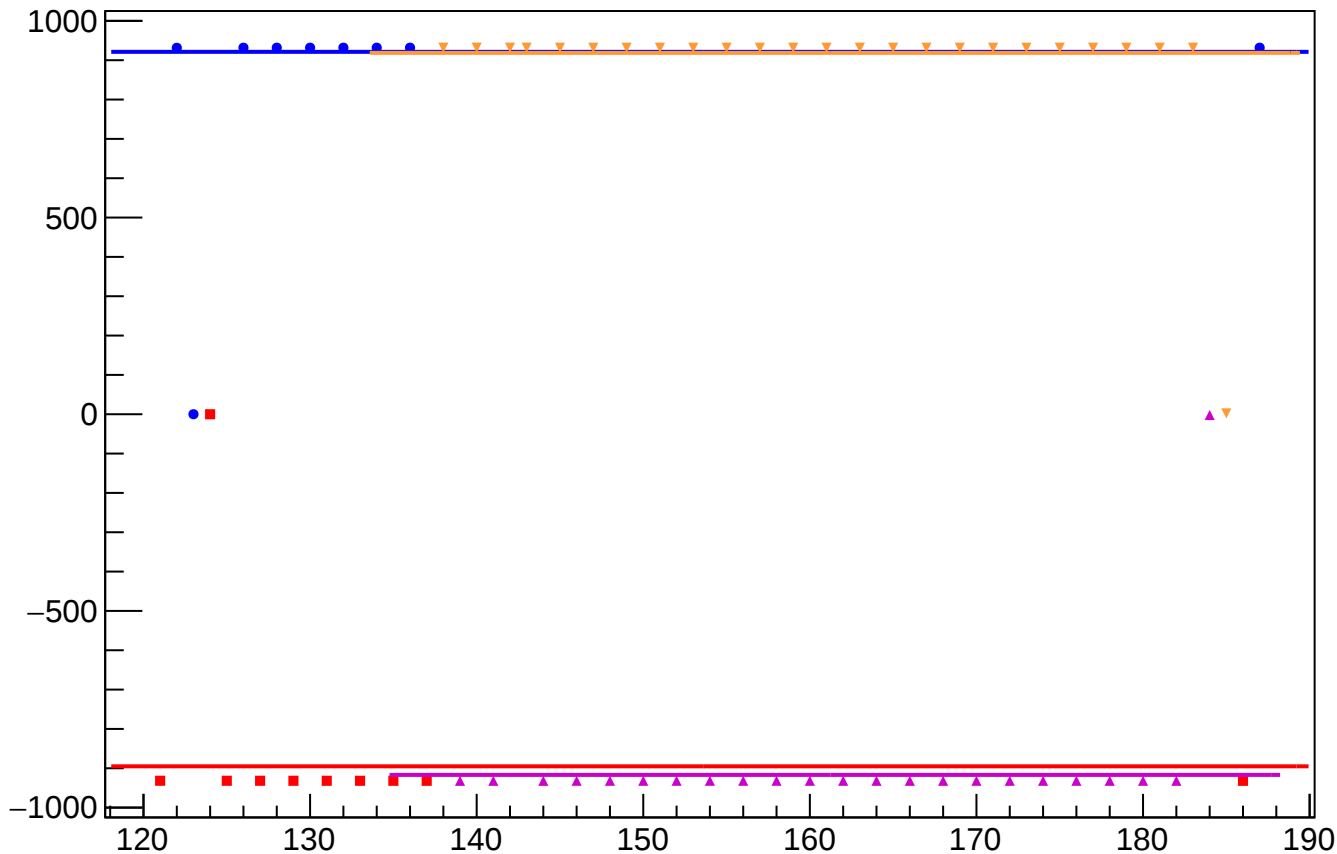
Right: -0.000+/-0.000 χ^2/NDF : 6240234374999993

In: -0.006+/-0.000 χ^2/NDF : 104349625605955397

Out: 0.006+/-0.000 χ^2/NDF : 105243687913907058

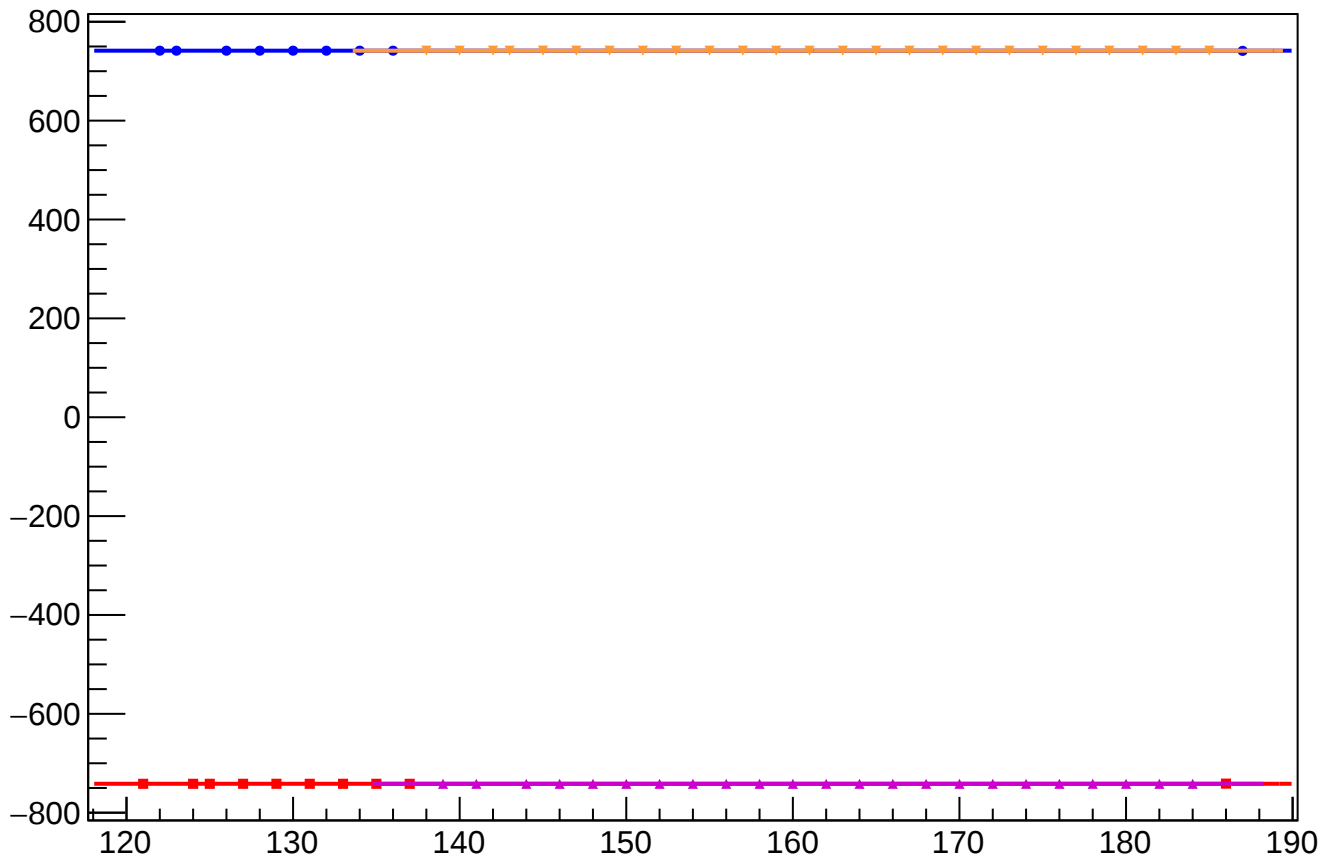
All: 0.000+/-0.000 χ^2/NDF : 38924895269126

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



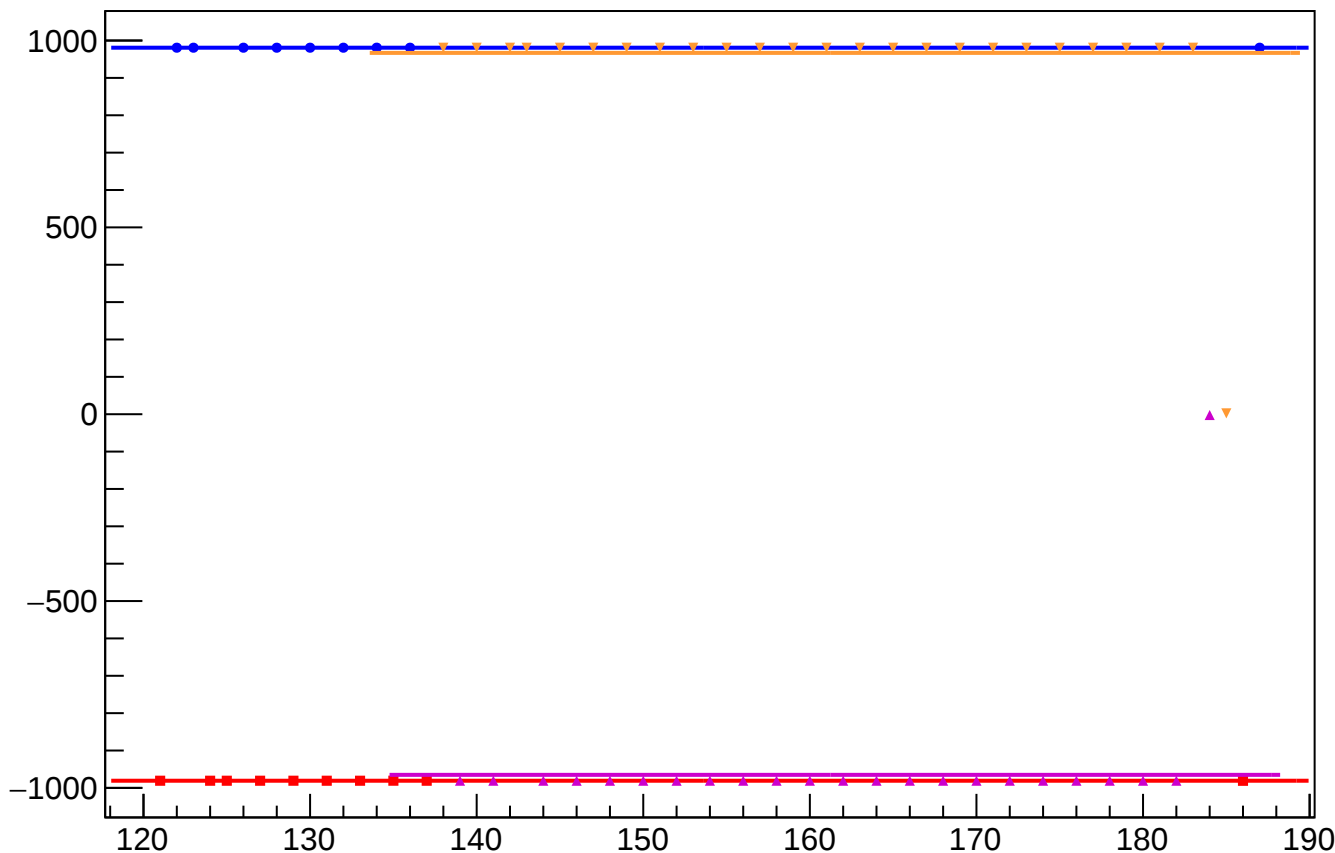
Right In: 921.299+/-0.000 χ^2/NDF : 3433629787852226580171132971576721408.0/8
 Left Out: 918.645+/-0.000 χ^2/NDF : 23003498704056084939752432521336324096.0/24
 Right Out: -895.076+/-0.000 χ^2/NDF : 11675926731367361880524807293248733184.0/9
 Left In: -916.890+/-0.000 χ^2/NDF : 2466789491747623125028694438888133632.0/22
 All: 23.343+/-0.000 χ^2/NDF : 3780447935161

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 741.511+/-0.000 χ^2/NDF : 2028616892104374725962348101632.0/8
 Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24
 Right Out: -741.490+/-0.000 χ^2/NDF : 4408129519430321010793282273280.0/9
 Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22
 All: 16.569+/-0.000 χ^2/NDF : 2435116178760.0/100

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: -980.840+/-0.000

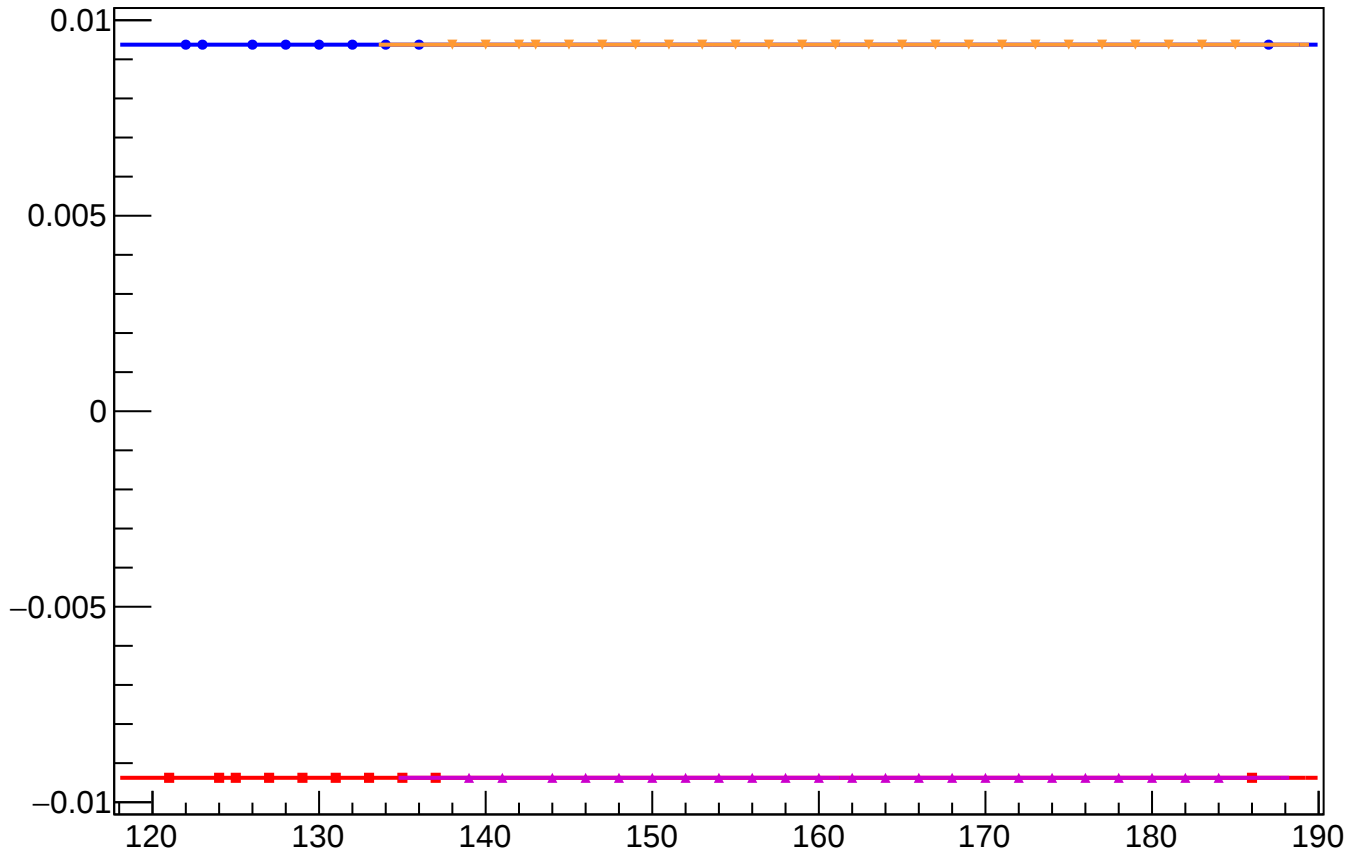
χ^2/NDF : 1545733700353009628695192666112.0/9

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 22.352+/-0.000 χ^2/NDF : 4206233751580

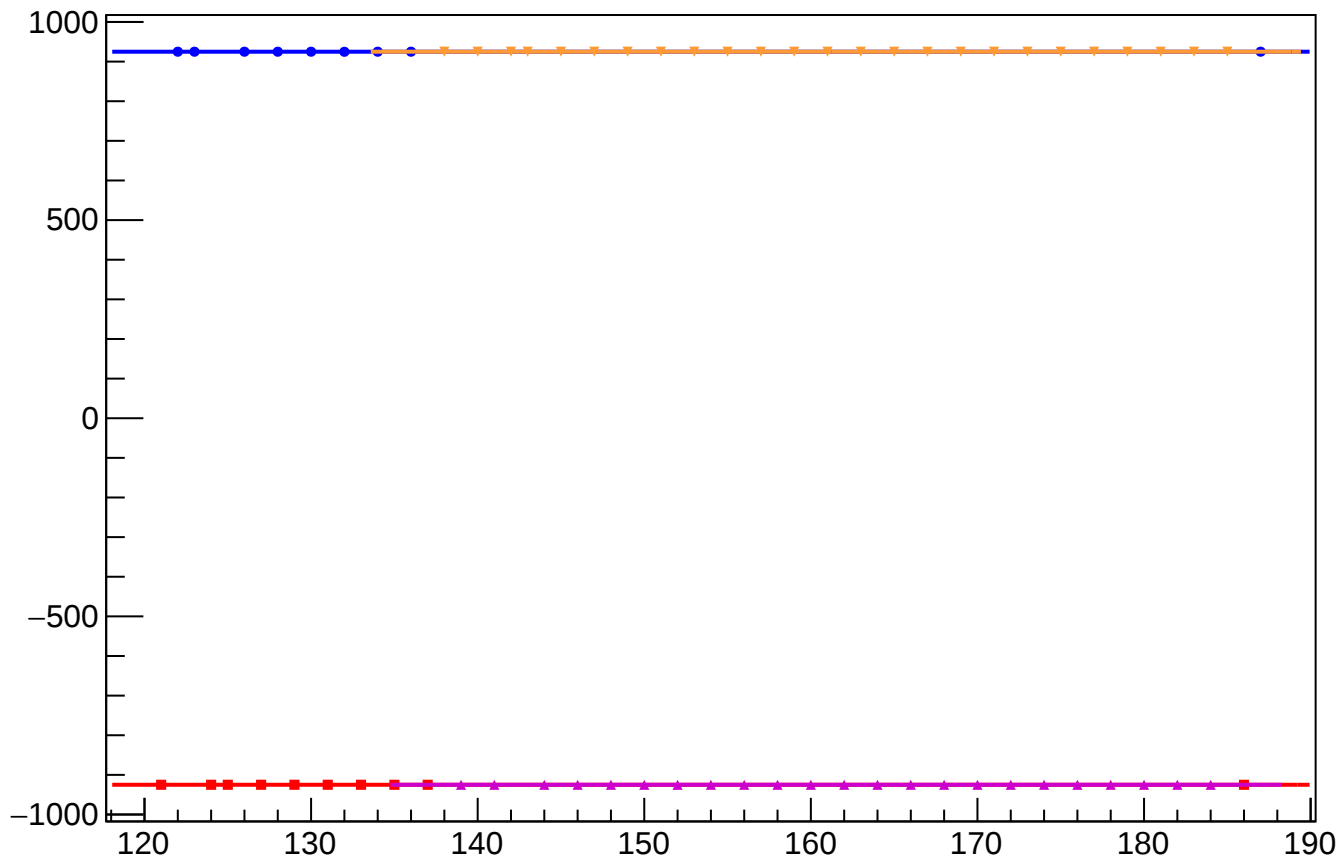
MQ172RM_mean vs Slug, Sign Corrected



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 : 0.0/9
Left In: -0.009+/-0.000 χ^2/NDF : 0.1/22

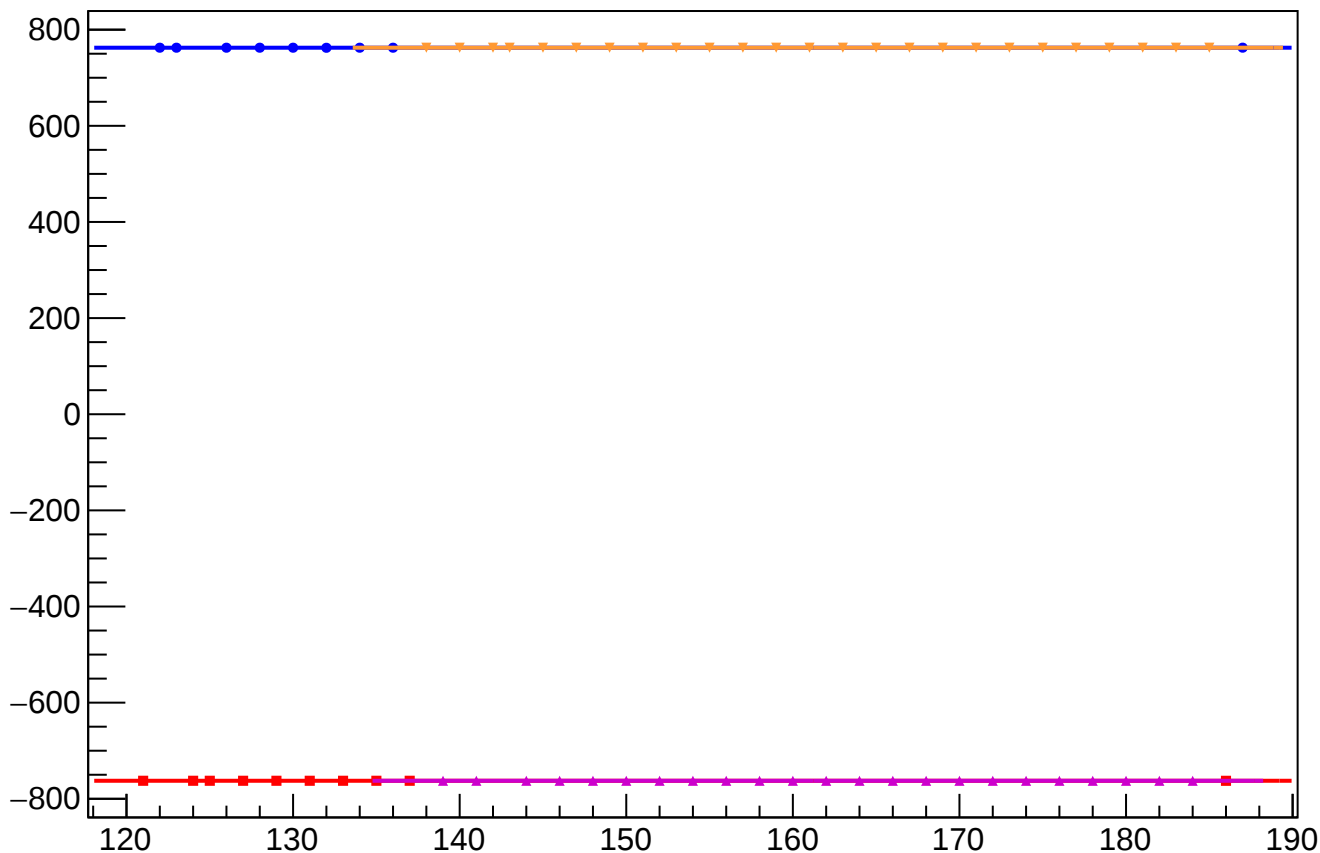
Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718
Right: -0.000+/-0.000 χ^2/NDF : 6240234374999993
In: -0.006+/-0.000 χ^2/NDF : 104349625605955397
Out: 0.006+/-0.000 χ^2/NDF : 105243687913907058
All: 0.000+/-0.000 χ^2/NDF : 38924895269126

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



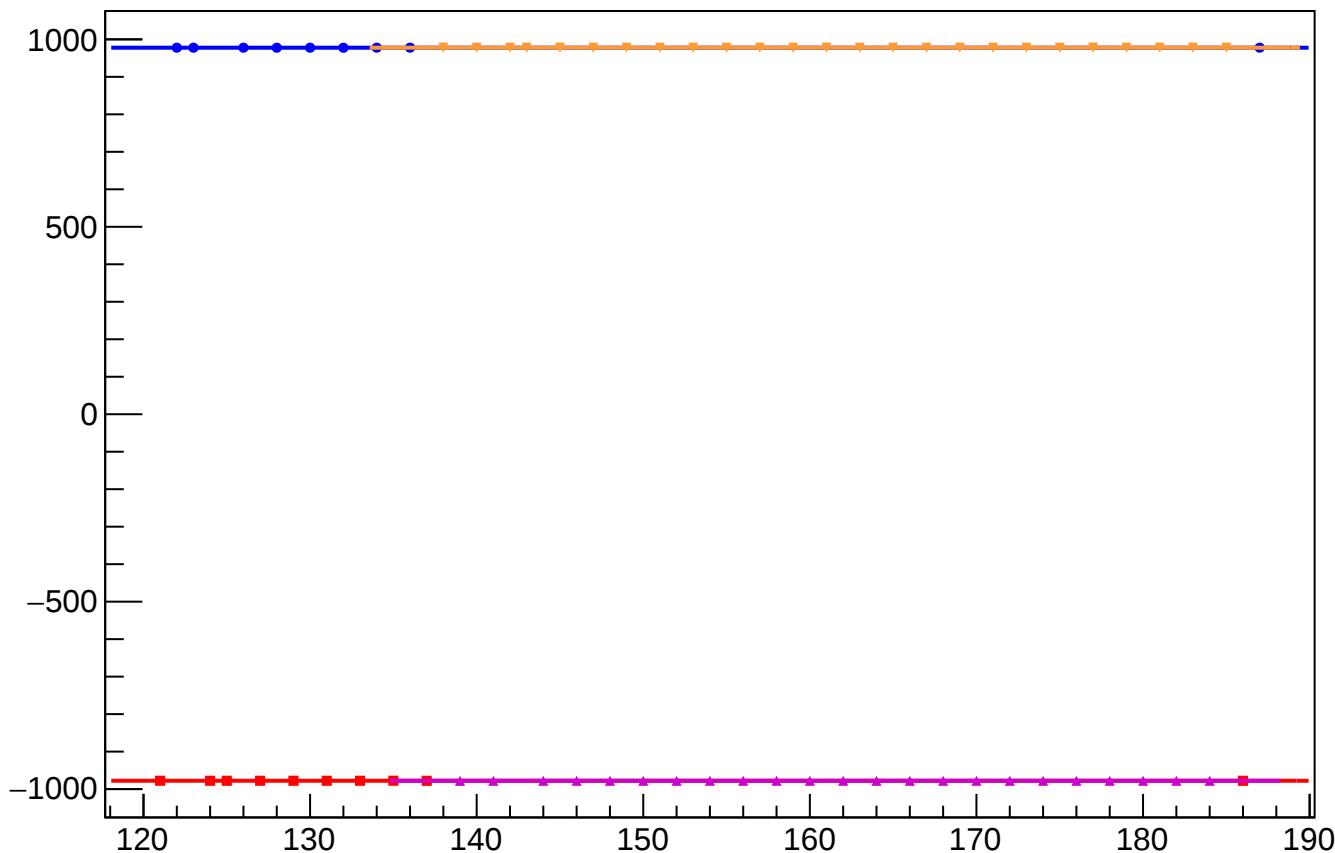
Right In: 924.943+/-0.000	χ^2/NDF : 1492790451787397840510971281408.0/8	Left: 24.610+/-0.000	χ^2/NDF : 31814082693920915
Left Out: 924.983+/-0.000	χ^2/NDF : 1041831865443970524066476982272.0/24	Right: -0.011+/-0.000	χ^2/NDF : 6074325698462755
Right Out: -924.964+/-0.000	χ^2/NDF : 209678956766401229883231436800.0/9	In: -621.786+/-0.000	χ^2/NDF : 1015773664948338
Left In: -924.983+/-0.000	χ^2/NDF : 888539224321534960792212865024.0/22	Out: 635.035+/-0.000	χ^2/NDF : 1024499831869504
	All: 20.665+/-0.000		χ^2/NDF : 3789202250840

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



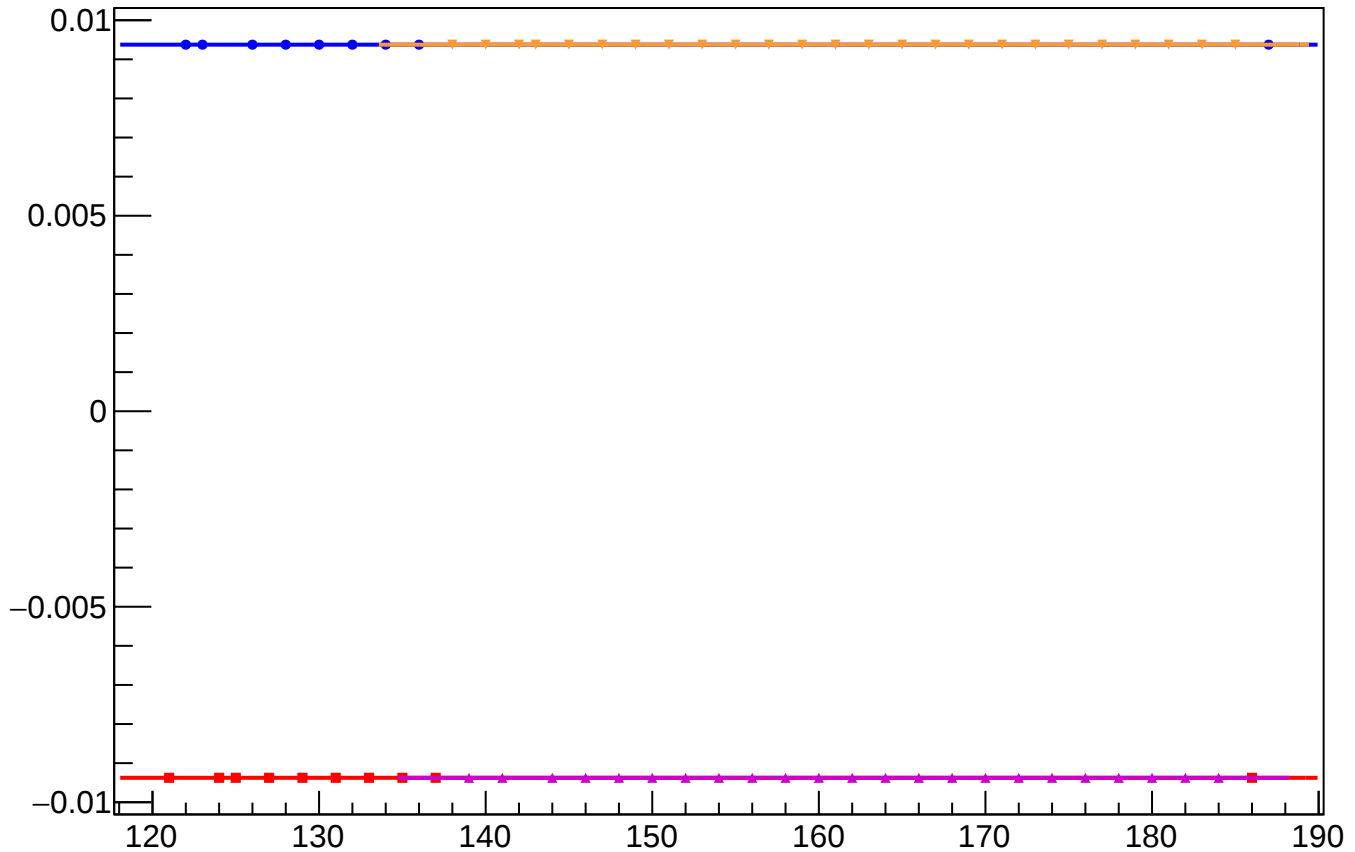
Right In: 762.488+/-0.000 χ^2/NDF : 910710279635233688195426156544.0/8
 Left Out: 762.518+/-0.000 χ^2/NDF : 731741258759628909874415403008.0/24
 Right Out: -762.509+/-0.000 χ^2/NDF : 178678150568968810217189933056.0/9
 Left In: -762.519+/-0.000 χ^2/NDF : 629058355419214408155297480704.0/22
 All: 17.035+/-0.000 χ^2/NDF : 2575029596751

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.744+/-0.000	χ^2/NDF : 1796434142186154749184889061376.0/8	Left: 26.015+/-0.000	χ^2/NDF : 35546397150663117
Left Out: 977.738+/-0.000	χ^2/NDF : 1154150409979077132991401558016.0/24	Right: 0.000+/-0.000	χ^2/NDF : 67874724114002670
Right Out: -977.743+/-0.000	χ^2/NDF : 883493859282777767537323016192.0/9	In: -657.239+/-0.000	χ^2/NDF : 1134996259399655
Left In: -977.735+/-0.000	χ^2/NDF : 976503887937607318263199432704.0/22	Out: 671.250+/-0.000	χ^2/NDF : 1144723493151680
	All: 21.846+/-0.000		χ^2/NDF : 4233790460787

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 : 0.0/9

Left In: -0.009+/-0.000 χ^2/NDF : 0.1/22

Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718

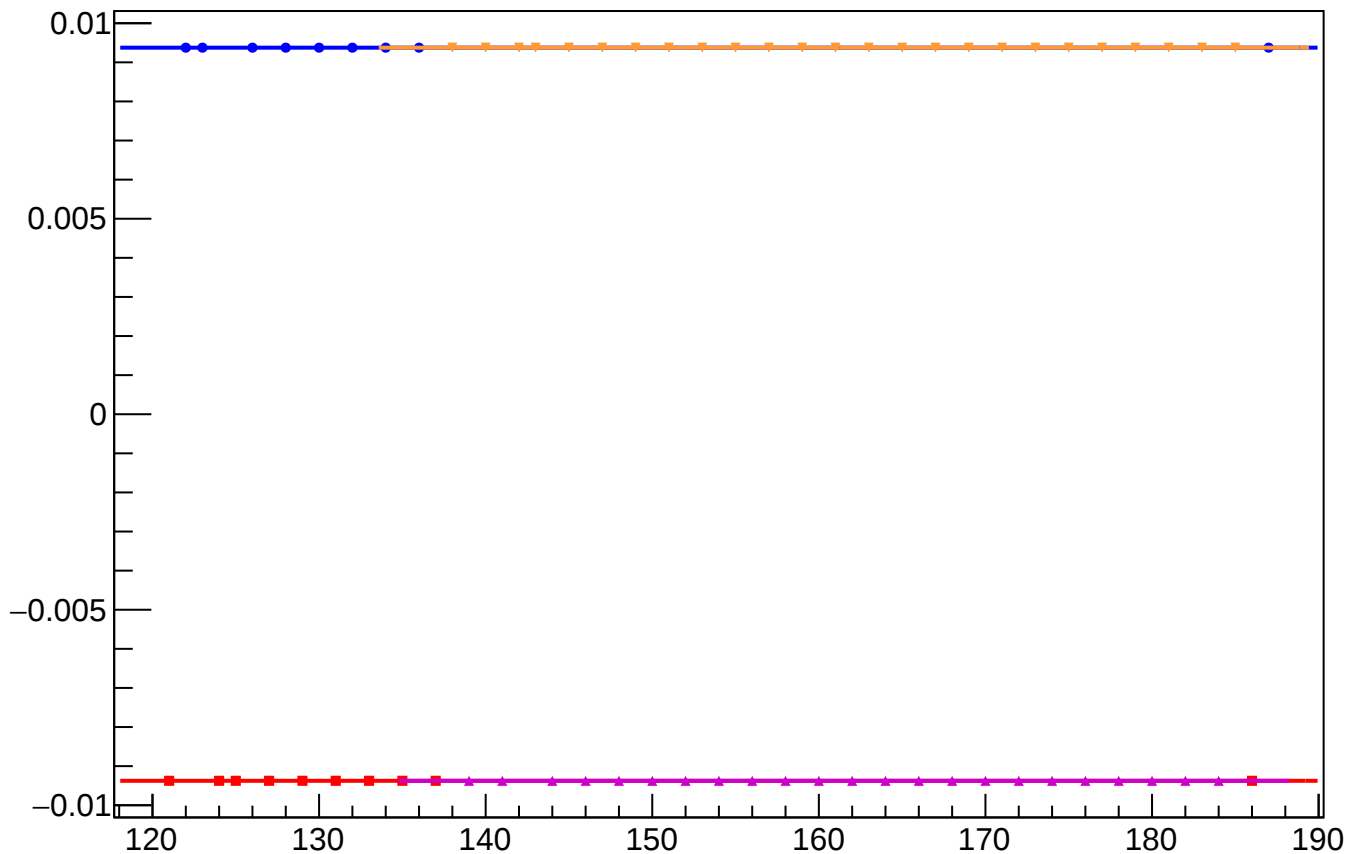
Right: -0.000+/-0.000 χ^2/NDF : 6240234374999993

In: -0.006+/-0.000 χ^2/NDF : 104349625605955397

Out: 0.006+/-0.000 χ^2/NDF : 105243687913907058

All: 0.000+/-0.000 χ^2/NDF : 38924895269126

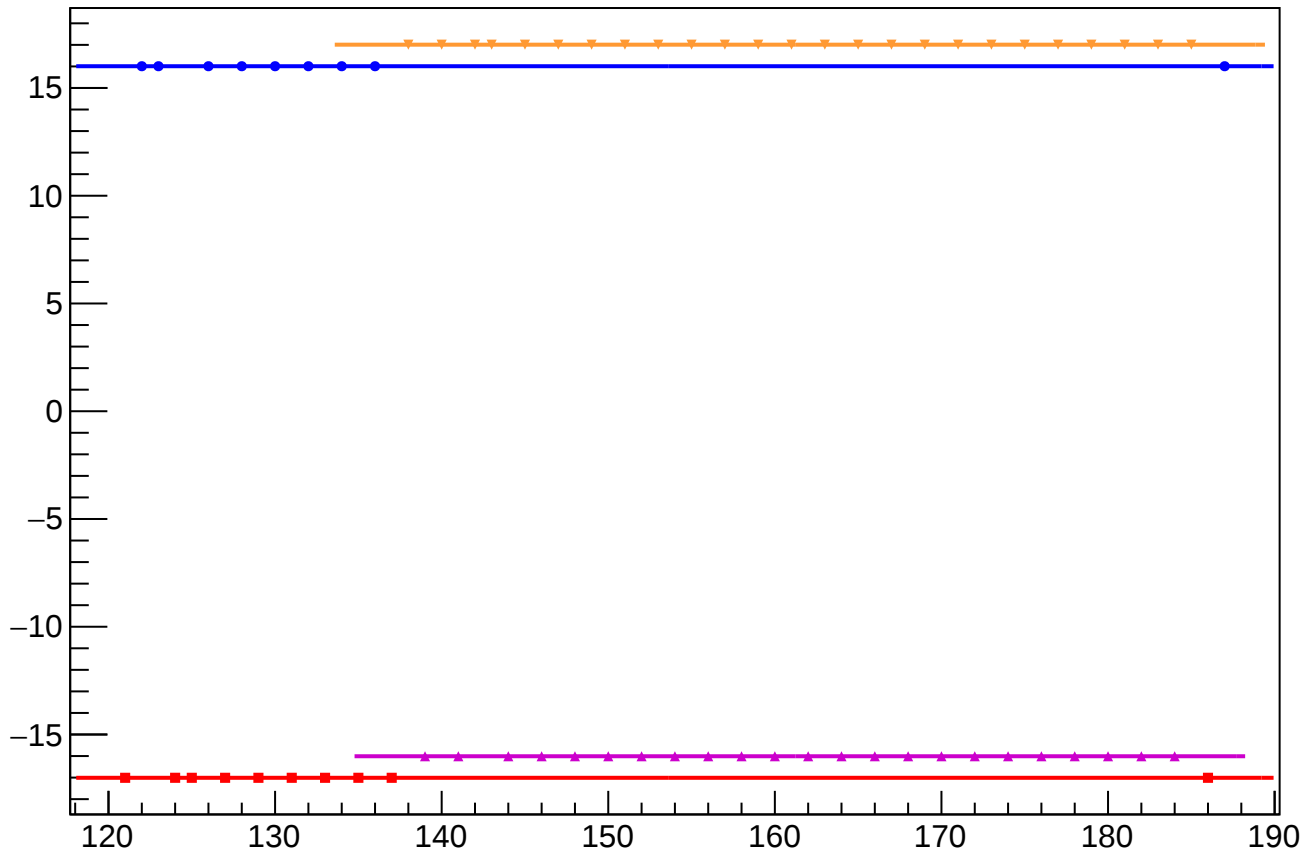
MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



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 : 0.0/9
 Left In: -0.009+/-0.000 χ^2/NDF : 0.1/22

Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718
 Right: -0.000+/-0.000 χ^2/NDF : 6240234374999993
 In: -0.006+/-0.000 χ^2/NDF : 104349625605955397
 Out: 0.006+/-0.000 χ^2/NDF : 105243687913907058
 All: 0.000+/-0.000 χ^2/NDF : 38924895269126

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 45981.1/8

Left Out: 17.009+/-0.000 χ^2/NDF : 26284444608576238643052544.0/24

Right Out: -17.009+/-0.000 χ^2/NDF : 8483717668631655053524992.0/9

Left In: -16.009+/-0.000 χ^2/NDF : 127973174512756677672960.0/22

Left: 0.939+/-0.000 χ^2/NDF : 941837157361130802

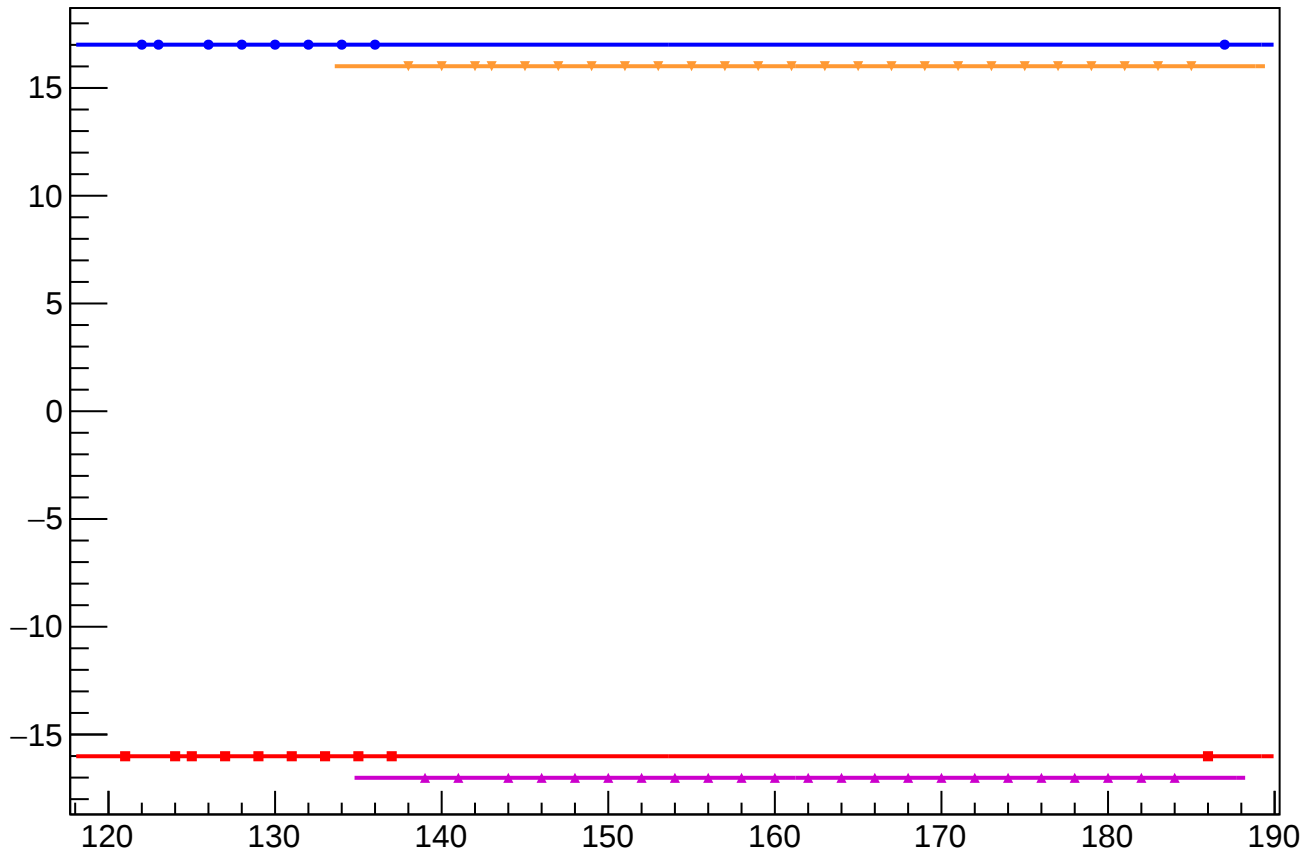
Right: -0.747+/-0.000 χ^2/NDF : 1820273435046239

In: -10.774+/-0.000 χ^2/NDF : 28213744792461365

Out: 11.554+/-0.000 χ^2/NDF : 32939980729056301

All: 0.666+/-0.000 χ^2/NDF : 11254564025774

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: 18276.3/9

Left In: -17.009 $\pm$ 0.000 χ^2 /NDF: 115033472633445654986752.0/22

Left: 0.042 $\pm$ 0.000 χ^2 /NDF: 994312337700629058

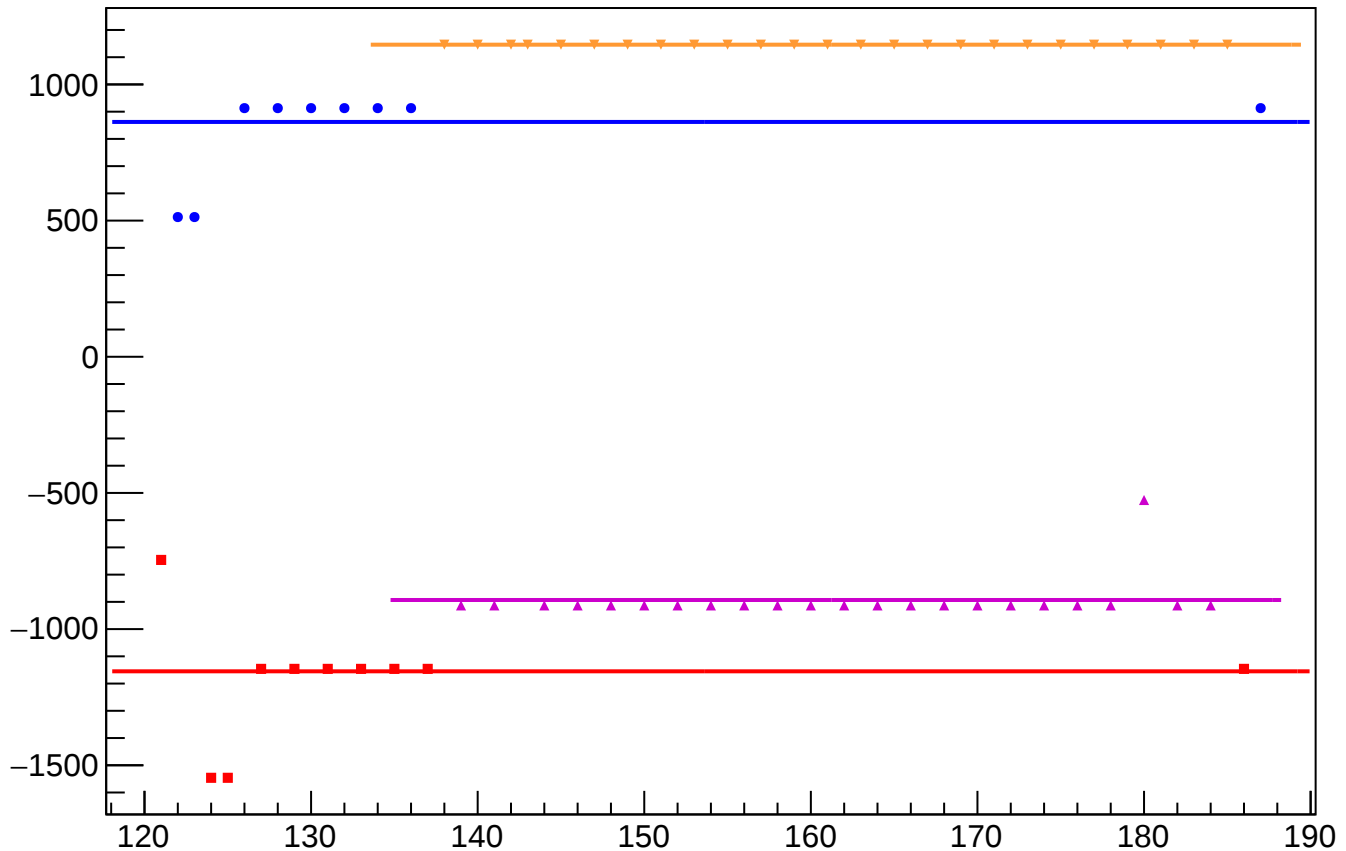
Right: 0.500 $\pm$ 0.000 χ^2 /NDF: 19351721865234390

In: -11.316 $\pm$ 0.000 χ^2 /NDF: 34207004275163672

Out: 10.937 $\pm$ 0.000 χ^2 /NDF: 30629290110738132

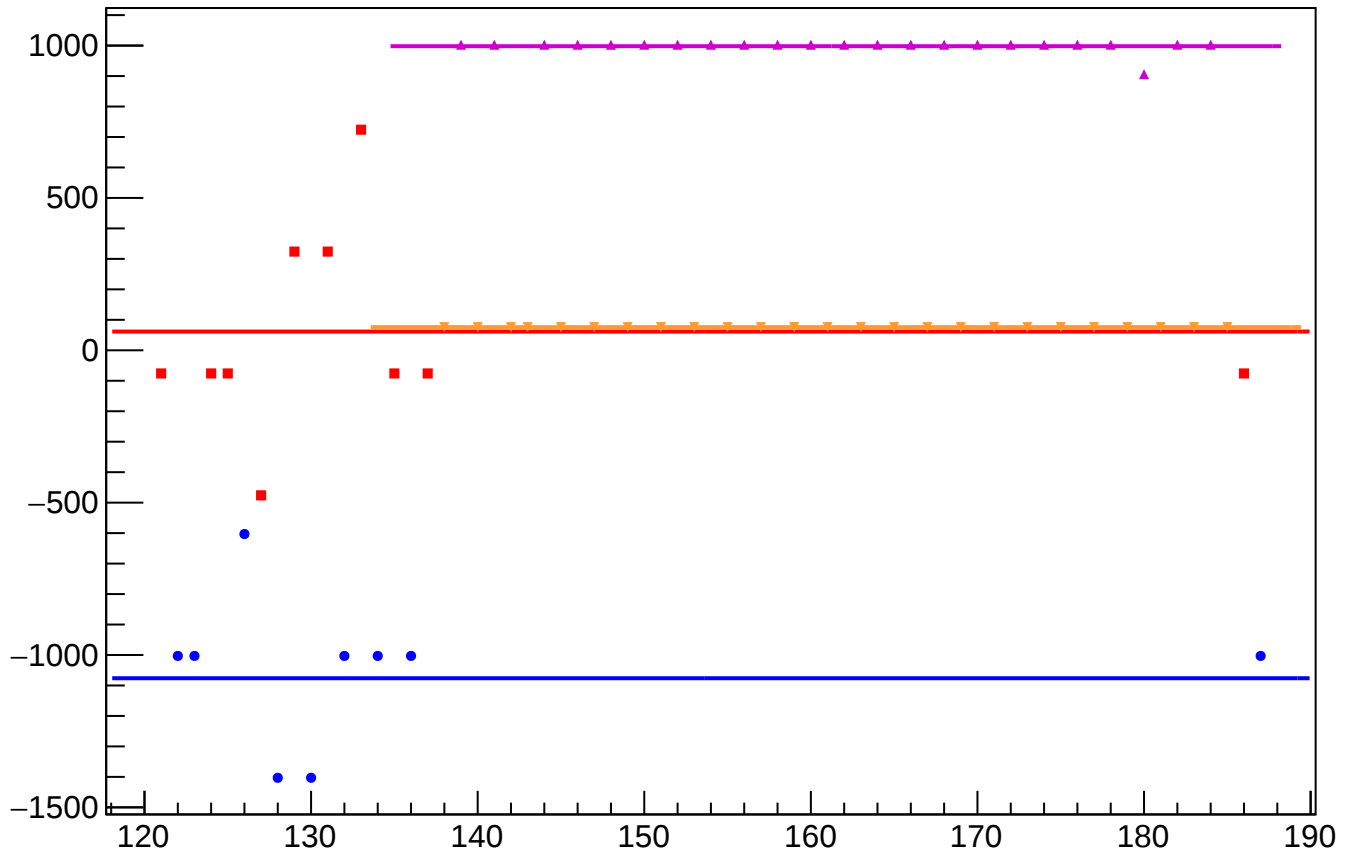
All: 0.117 $\pm$ 0.000 χ^2 /NDF: 11879539872454

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 862.288 $\pm$ 0.000 χ^2 /NDF: 6287383554096374754523801651018465280.0/8
 Left Out: 1146.011 $\pm$ 0.000 χ^2 /NDF: 8041760976861450519237885952.0/24
 Right Out: -1155.024 $\pm$ 0.000 χ^2 /NDF: 13731821965068823961882039392053231616.0/9
 Left In: -893.116 $\pm$ 0.000 χ^2 /NDF: 13219826761707982974212661987208331264.0/22
 All: 105.513 $\pm$ 0.000 χ^2 /NDF: 46745031508

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: 61.455+/-0.000

χ^2/NDF : 40331405056708569824943484777946677248.0/9

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 359.366+/-0.000 χ^2/NDF : 171761358609