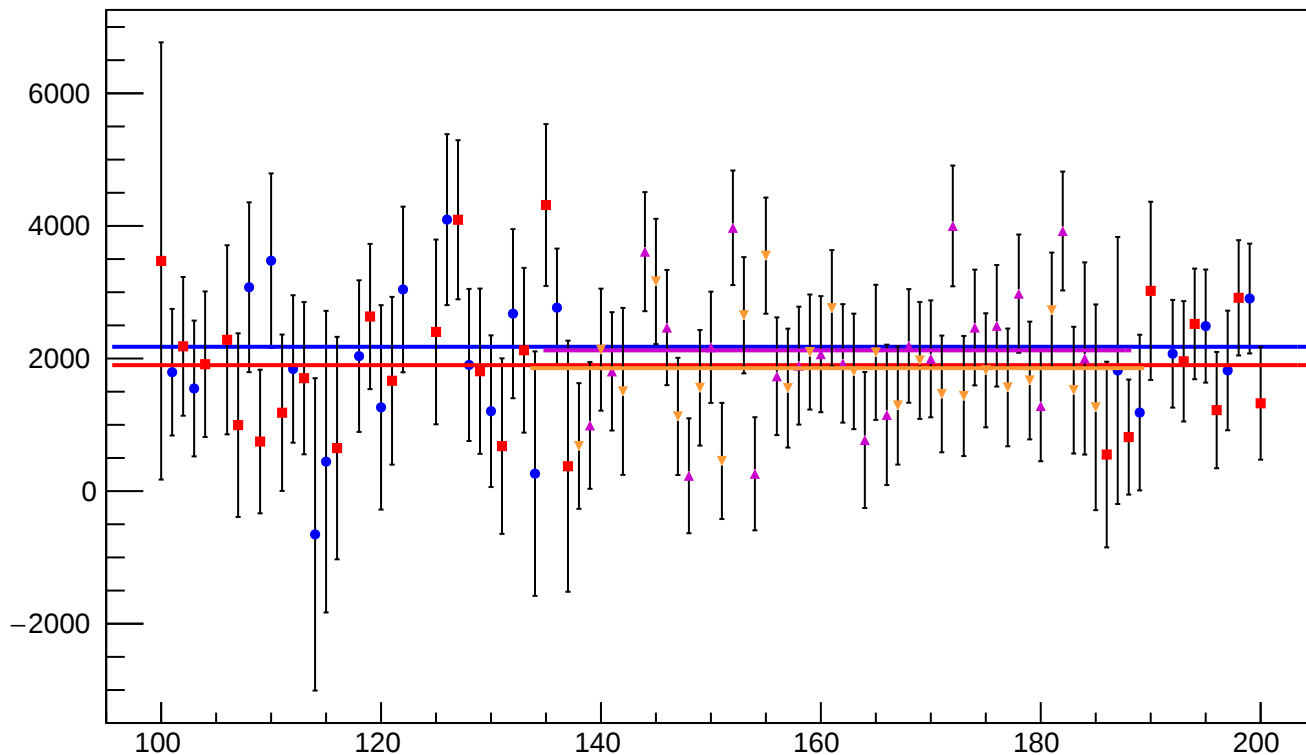


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2176.994+/-241.884

Left Out: 1854.267+/-187.405

Right Out: 1899.786+/-223.238

Left In: 2123.138+/-188.684

χ^2/NDF : 11.4/21

χ^2/NDF : 15.1/23

χ^2/NDF : 18.5/25

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2027.295+/-164.050

In: 2143.512+/-148.773

Out: 1873.084+/-143.534

All: 2003.452+/-103.296

χ^2/NDF : 48.1/46

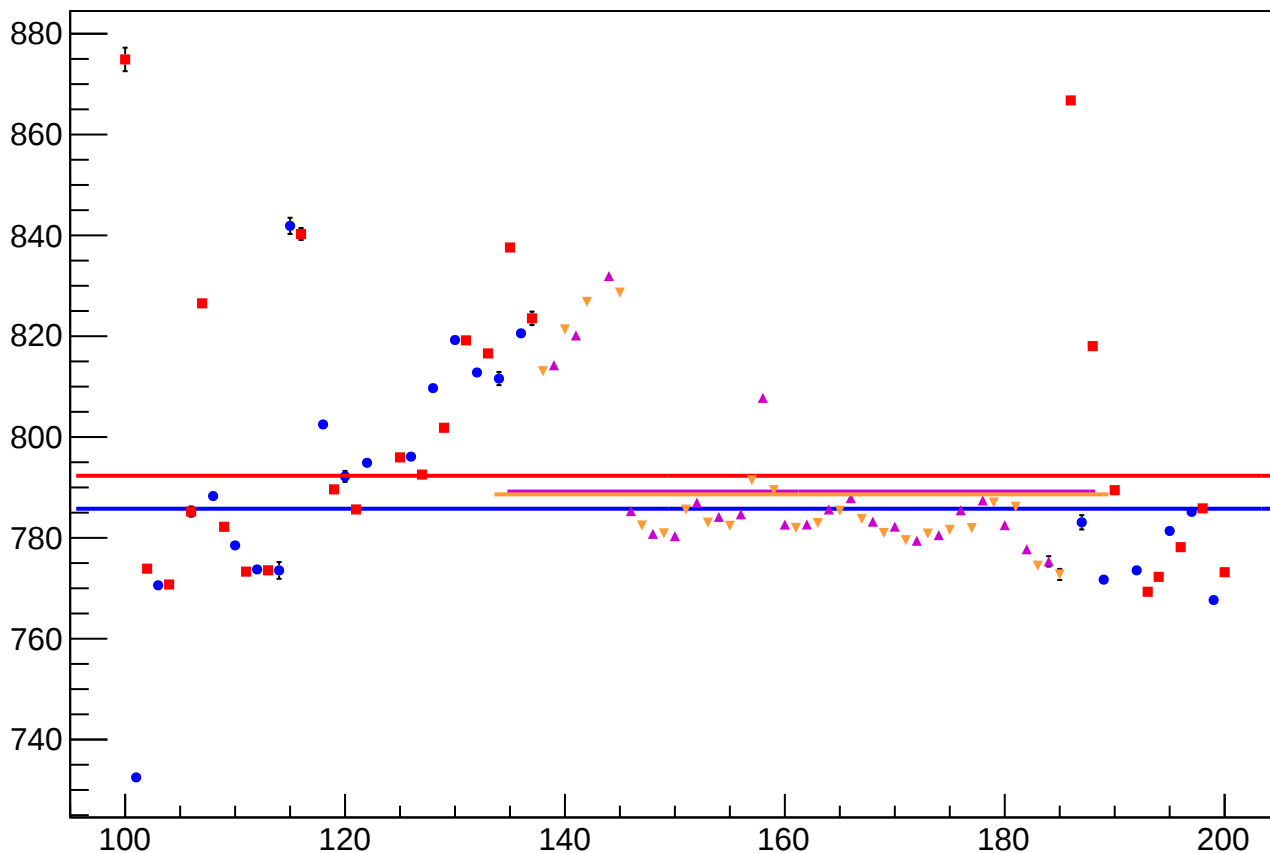
χ^2/NDF : 30.6/47

χ^2/NDF : 43.5/44

χ^2/NDF : 33.6/49

χ^2/NDF : 78.8/94

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 785.781 $\pm$ 0.171 χ^2 /NDF: 17621.1/21

Left Out: 788.629 $\pm$ 0.133 χ^2 /NDF: 11478.1/23

Right Out: 792.320 $\pm$ 0.158 χ^2 /NDF: 23367.2/25

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

Left: 788.905 $\pm$ 0.094 χ^2 /NDF: 22830.1/46

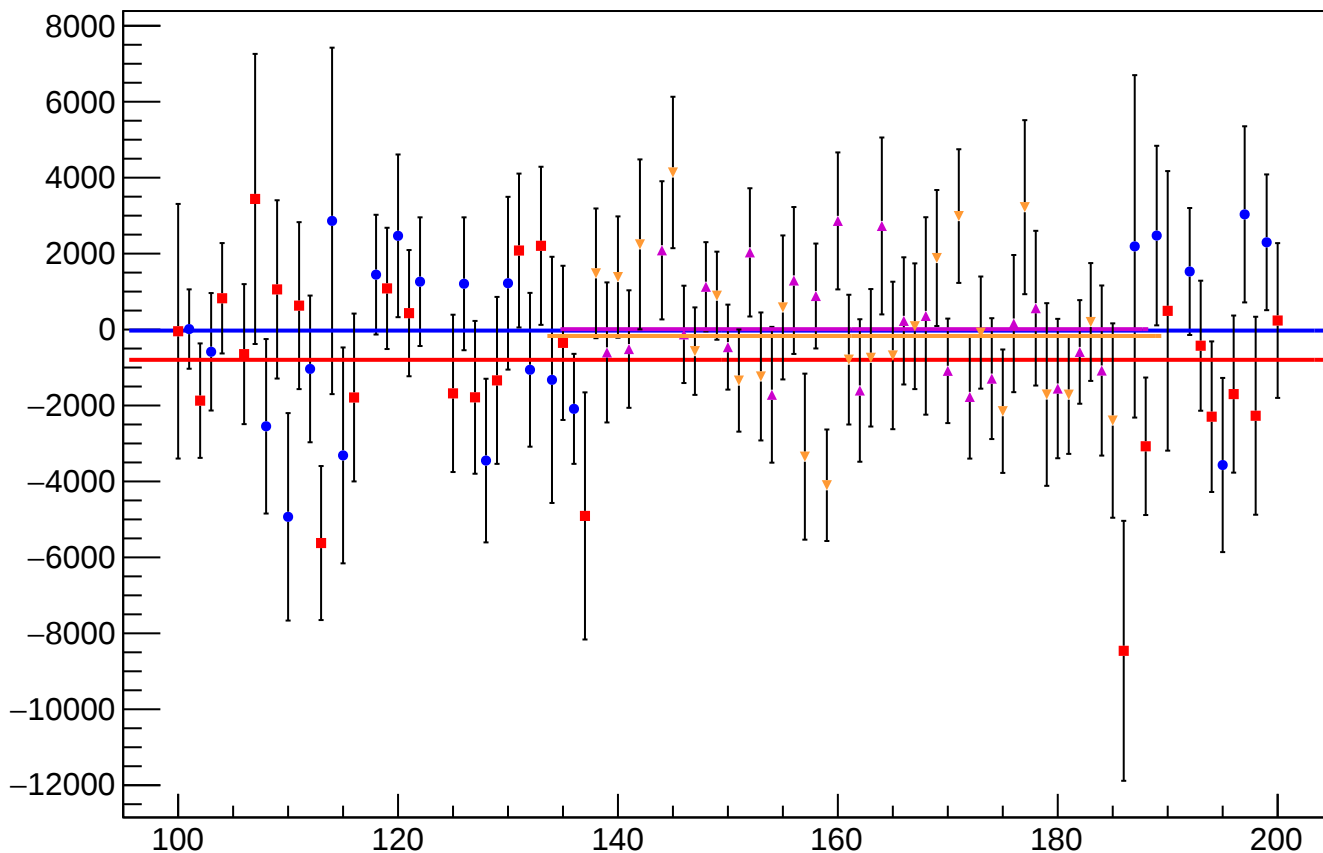
Right: 789.312 $\pm$ 0.116 χ^2 /NDF: 41777.7/47

In: 787.897 $\pm$ 0.105 χ^2 /NDF: 29210.6/44

Out: 790.155 $\pm$ 0.101 χ^2 /NDF: 35166.0/49

All: 789.066 $\pm$ 0.073 χ^2 /NDF: 64615.2/94

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -27.040 $\pm$ 412.029 χ^2/NDF : 23.2/21

Left Out: -169.172 $\pm$ 340.391 χ^2/NDF :30.0/23

Right Out: -797.102 $\pm$ 403.727 χ^2/NDF : 26.2/25

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

Left: -78.858 $\pm$ 239.775 χ^2/NDF : 44.4/46

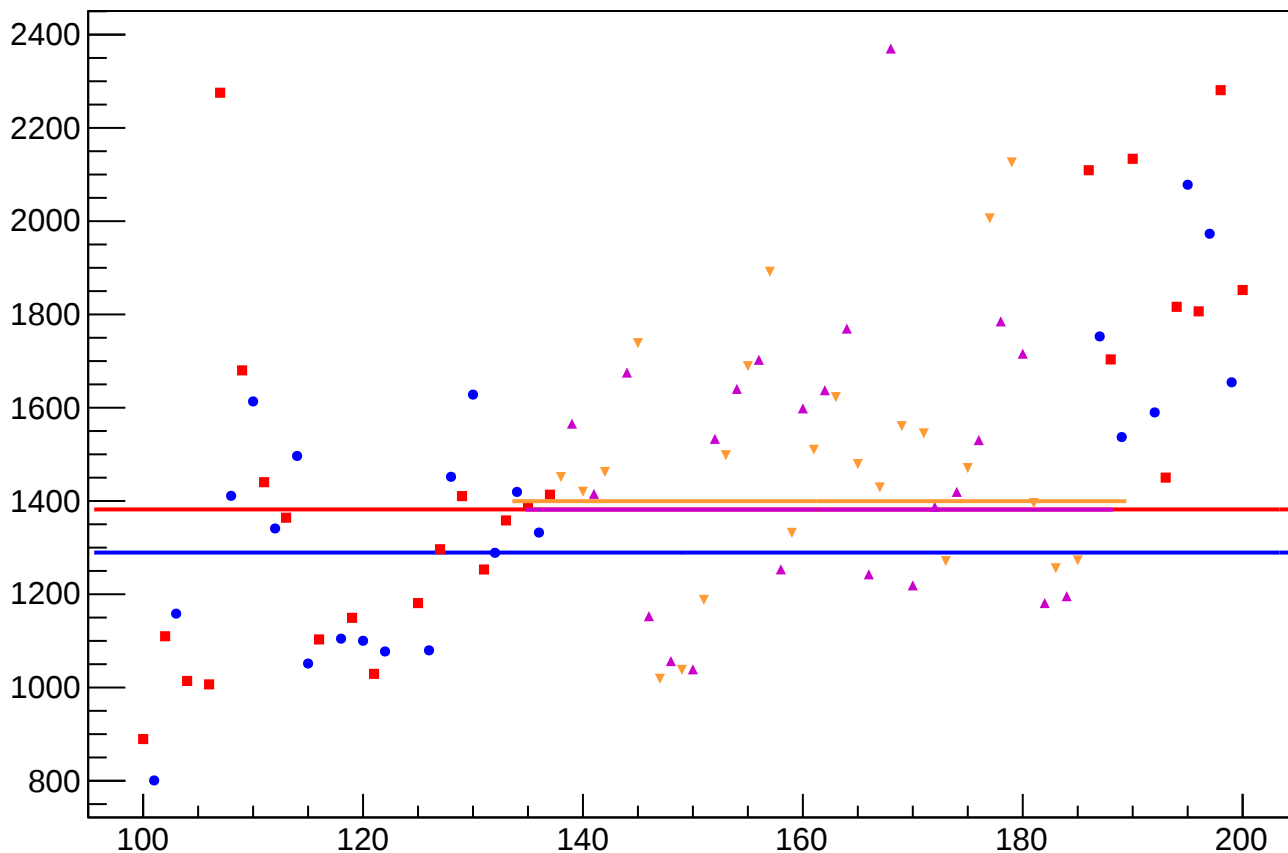
Right: -419.907 $\pm$ 288.369 χ^2/NDF : 51.2/47

In: -4.834 $\pm$ 261.234 χ^2/NDF :37.4/44

Out: -430.075 $\pm$ 260.238 χ^2/NDF :57.6/49

All: -218.267 $\pm$ 184.367 χ^2/NDF : 96.4/94

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1289.375 $\pm$ 0.291 χ^2 /NDF: 1269969.3/21

Left Out: 1399.587 $\pm$ 0.241 χ^2 /NDF: 1119125.1/23

Right Out: 1381.874 $\pm$ 0.285 χ^2 /NDF: 1422693.0/25

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

Left: 1390.403 $\pm$ 0.170 χ^2 /NDF: 2398502.8/46

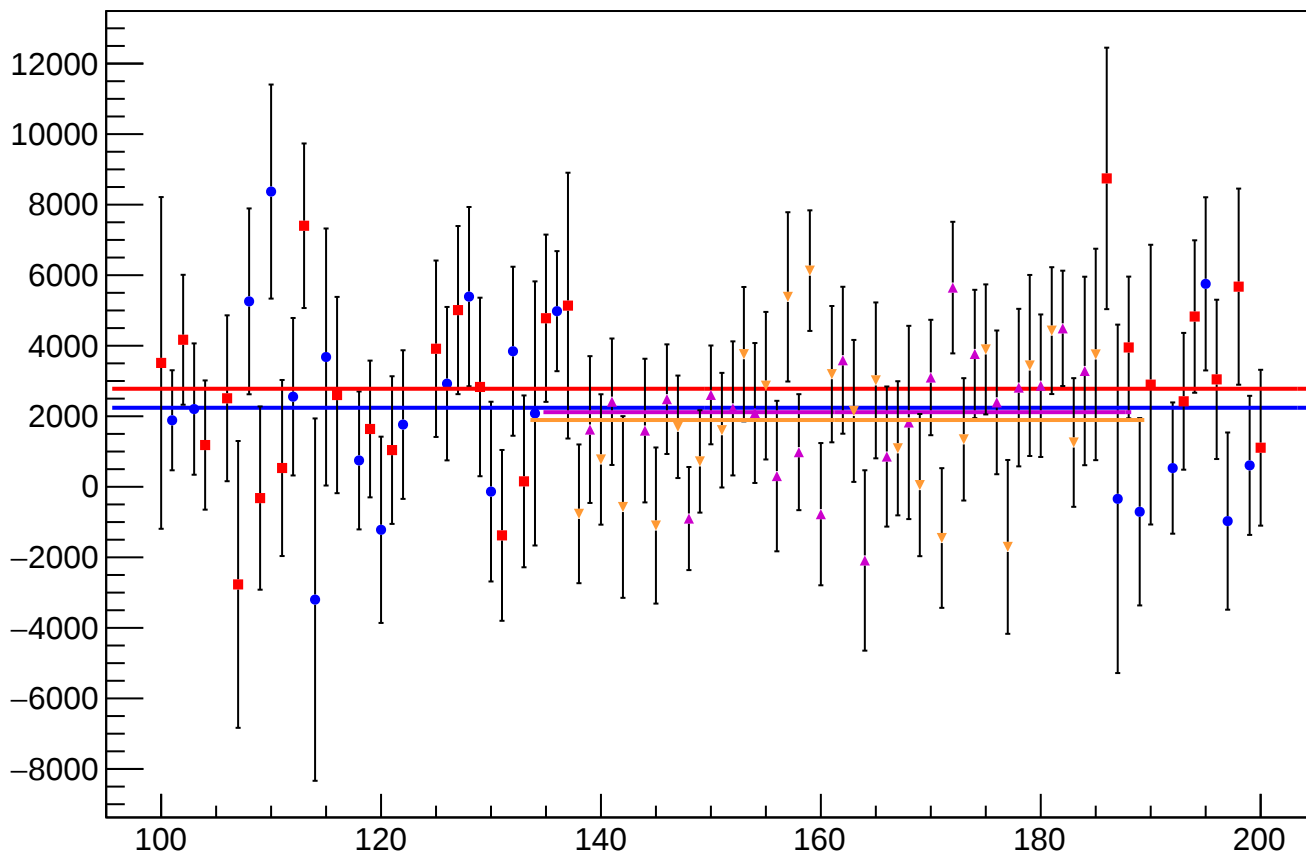
Right: 1336.566 $\pm$ 0.204 χ^2 /NDF: 2744087.2/47

In: 1344.383 $\pm$ 0.185 χ^2 /NDF: 2606066.5/44

Out: 1392.227 $\pm$ 0.184 χ^2 /NDF: 2544068.2/49

All: 1368.396 $\pm$ 0.130 χ^2 /NDF: 5183805.6/94

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2240.946 $\pm$ 491.109 χ^2 /NDF: 21.4/21

Left Out: 1893.469 $\pm$ 394.877 χ^2 /NDF:25.9/23

Right Out: 2780.062 $\pm$ 473.051 χ^2 /NDF: 22.2/25

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

Left: 2005.323 $\pm$ 278.553 χ^2 /NDF: 44.9/46

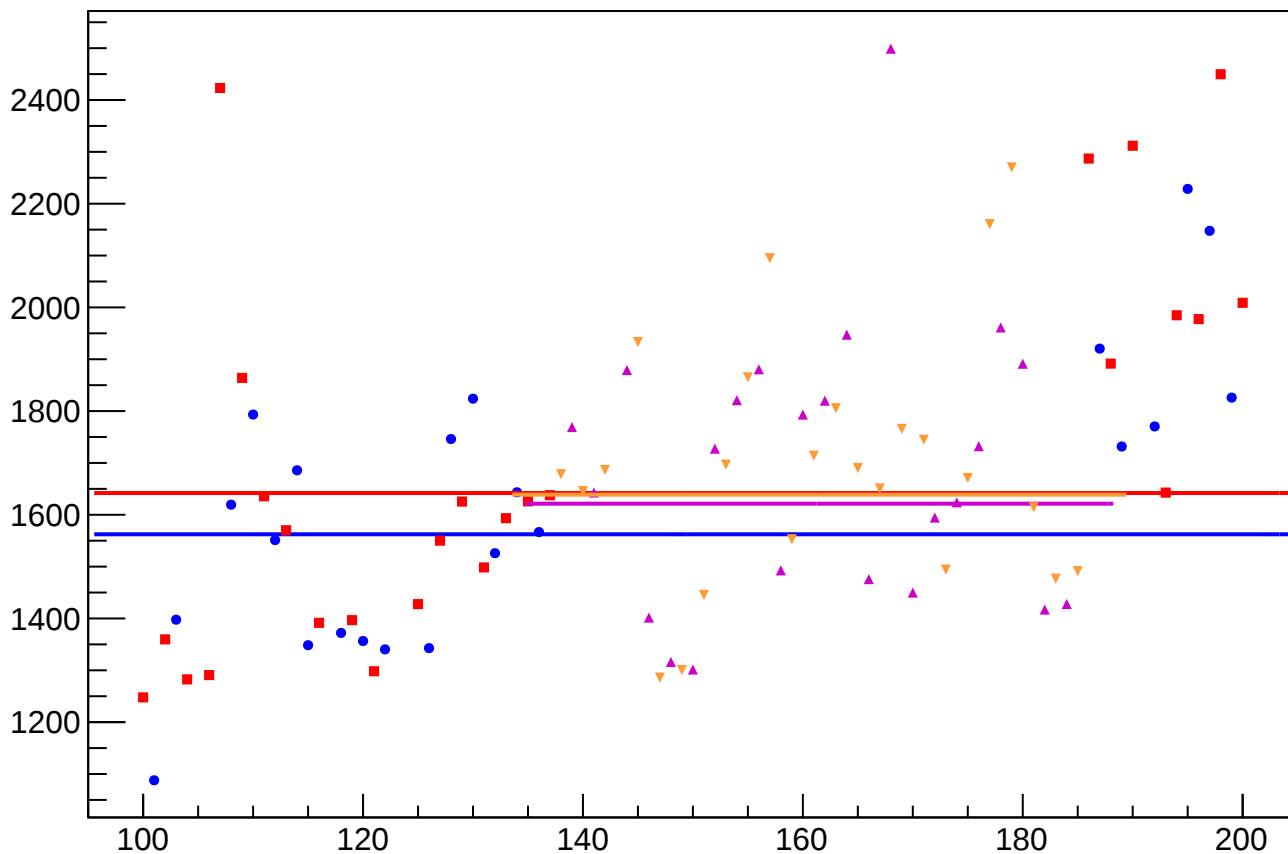
Right: 2520.597 $\pm$ 340.703 χ^2 /NDF: 44.2/47

In: 2164.846 $\pm$ 306.845 χ^2 /NDF:40.2/44

Out: 2257.552 $\pm$ 303.142 χ^2 /NDF:50.3/49

All: 2211.762 $\pm$ 215.651 χ^2 /NDF: 90.5/94

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1562.370 ± 0.347 $\chi^2/NDF: 701937.9/21$

Left Out: 1638.806 ± 0.279 $\chi^2/NDF: 671906.6/23$

Right Out: 1641.932 ± 0.334 $\chi^2/NDF: 867625.1/25$

Left In: 1621.417 ± 0.278 $\chi^2/NDF: 775310.1/22$

Left: 1630.070 ± 0.197 $\chi^2/NDF: 1449165.3/46$

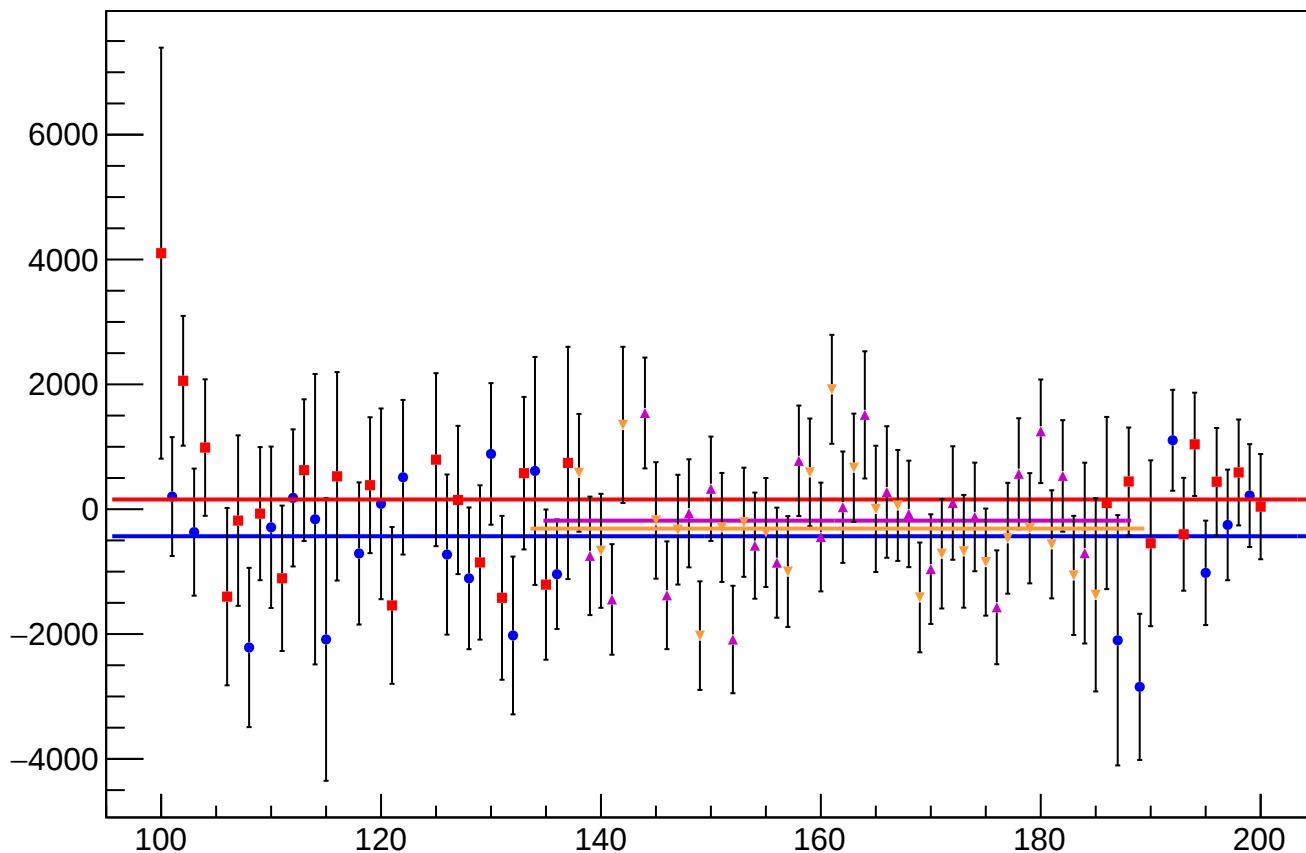
Right: 1603.641 ± 0.241 $\chi^2/NDF: 1596791.5/47$

In: 1598.366 ± 0.217 $\chi^2/NDF: 1494873.0/44$

Out: 1640.090 ± 0.214 $\chi^2/NDF: 1539583.2/49$

All: 1619.481 ± 0.152 $\chi^2/NDF: 3053170.2/94$

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -432.980 ± 239.660 χ^2/NDF : 17.9/21

Left Out: -310.563 ± 186.538 χ^2/NDF : 20.0/23

Right Out: 156.082 ± 220.943 χ^2/NDF : 16.0/25

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

Left: -247.165 ± 132.352 χ^2/NDF : 46.4/46

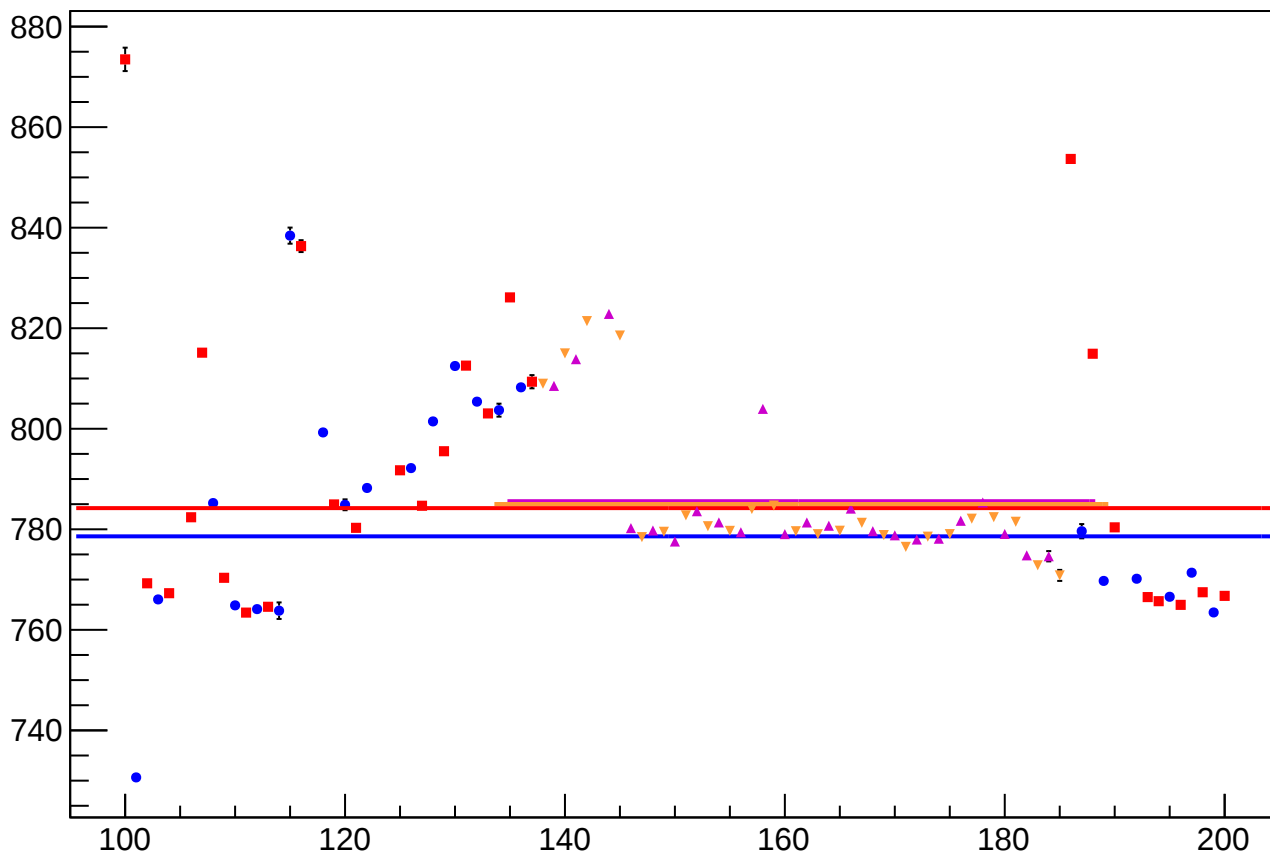
Right: -114.552 ± 162.445 χ^2/NDF : 37.2/47

In: -278.048 ± 147.830 χ^2/NDF : 44.7/44

Out: -116.362 ± 142.532 χ^2/NDF : 38.7/49

All: -194.256 ± 102.607 χ^2/NDF : 84.0/94

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 778.598 $\pm$ 0.169 χ^2 /NDF: 16226.7/21

Left Out: 785.031 $\pm$ 0.132 χ^2 /NDF: 9367.9/23

Right Out: 784.212 $\pm$ 0.156 χ^2 /NDF: 23376.6/25

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

Left: 785.309 $\pm$ 0.094 χ^2 /NDF: 18750.6/46

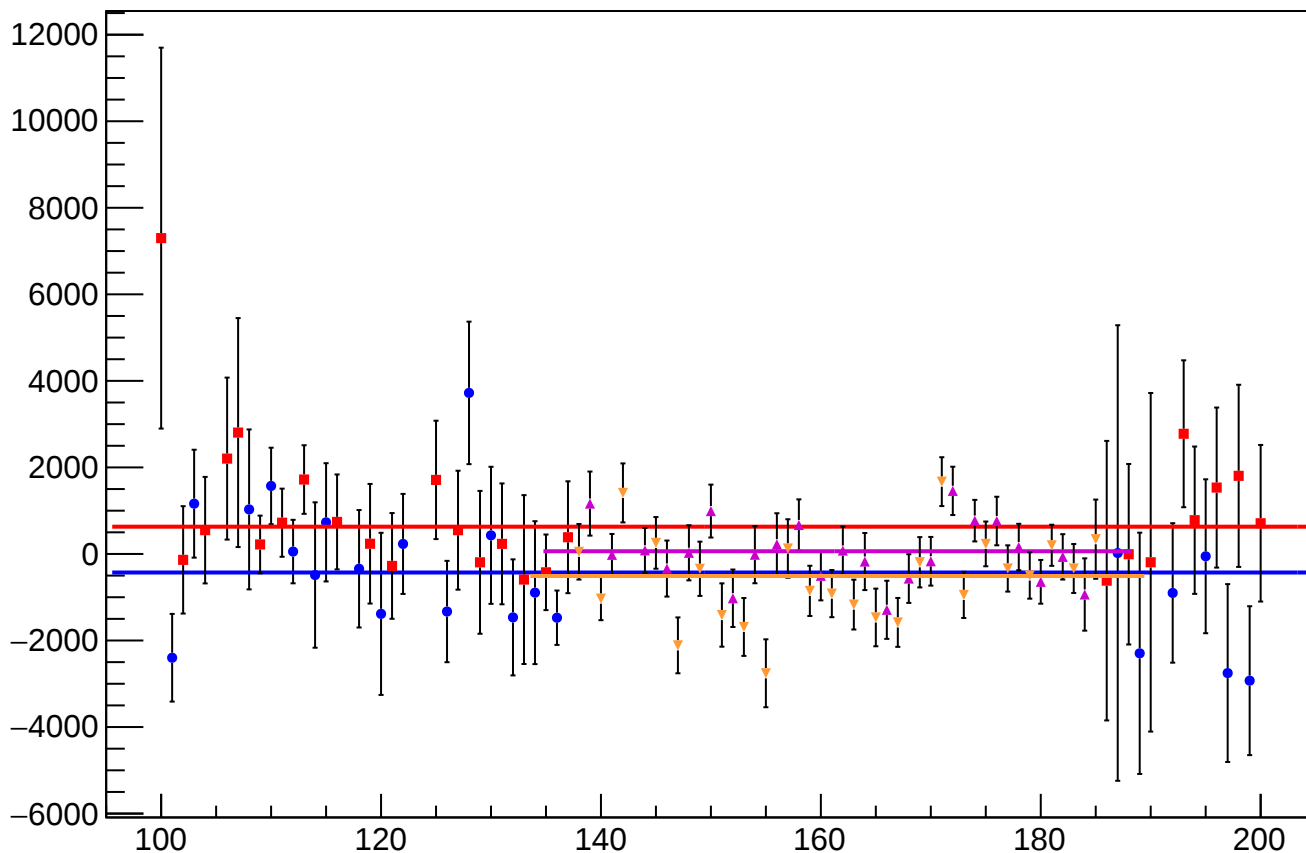
Right: 781.633 $\pm$ 0.115 χ^2 /NDF: 40196.6/47

In: 782.931 $\pm$ 0.105 χ^2 /NDF: 26655.6/44

Out: 784.690 $\pm$ 0.101 χ^2 /NDF: 32760.5/49

All: 783.843 $\pm$ 0.073 χ^2 /NDF: 59563.0/94

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -428.644 ± 268.126 $\chi^2/\text{NDF}: 27.6/21$

Left Out: -509.311 ± 121.190 $\chi^2/\text{NDF}: 60.5/23$

Right Out: 630.201 ± 255.717 $\chi^2/\text{NDF}: 12.3/25$

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

Left: -225.283 ± 85.995 $\chi^2/\text{NDF}: 100.4/46$

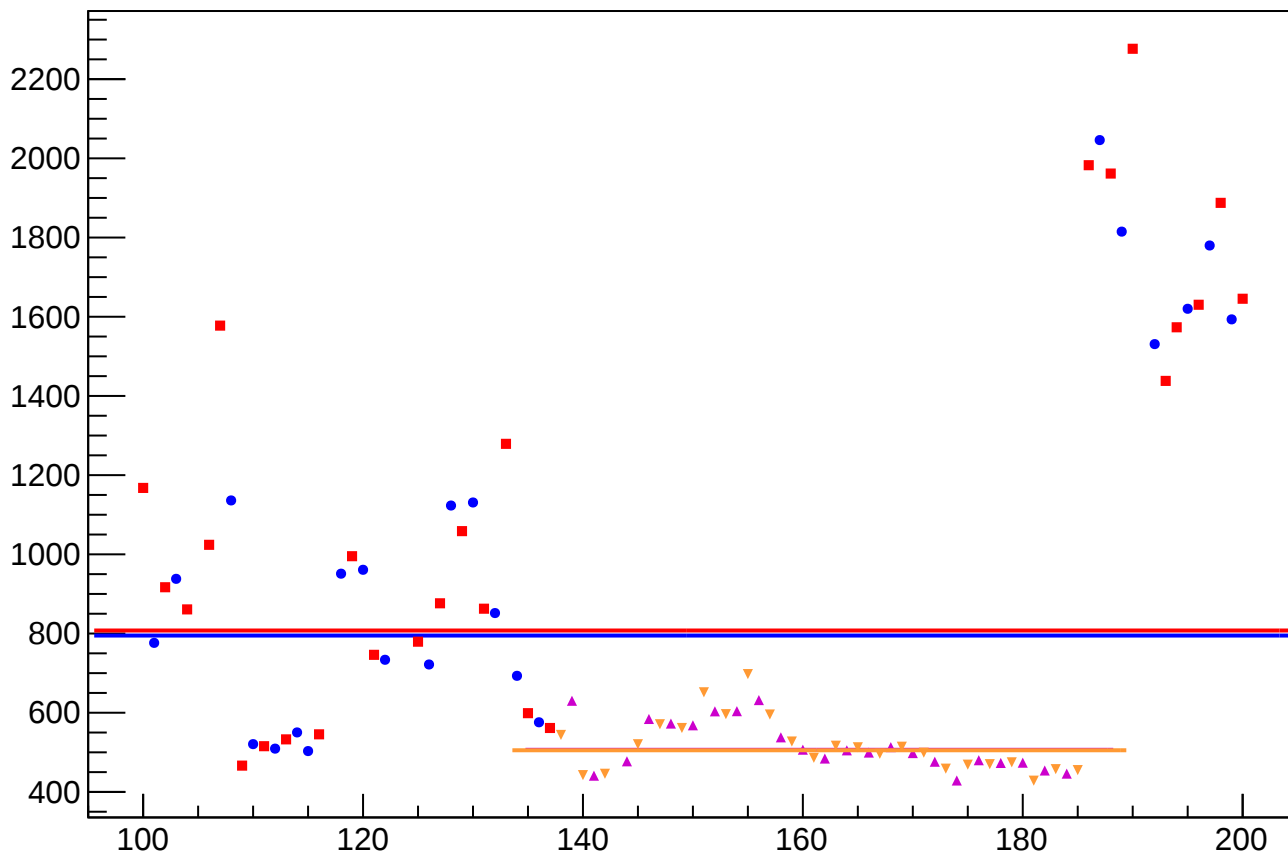
Right: 125.848 ± 185.051 $\chi^2/\text{NDF}: 48.0/47$

In: -21.573 ± 111.080 $\chi^2/\text{NDF}: 59.1/44$

Out: -300.314 ± 109.514 $\chi^2/\text{NDF}: 89.0/49$

All: -162.921 ± 77.986 $\chi^2/\text{NDF}: 151.4/94$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 794.924+/-0.190 χ^2/NDF : 3322428.7/21

Left Out: 505.220+/-0.086 χ^2/NDF : 485593.0/23

Right Out: 807.653+/-0.181 χ^2/NDF : 4974118.1/25

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

Left: 505.796+/-0.061 χ^2/NDF : 921978.4/46

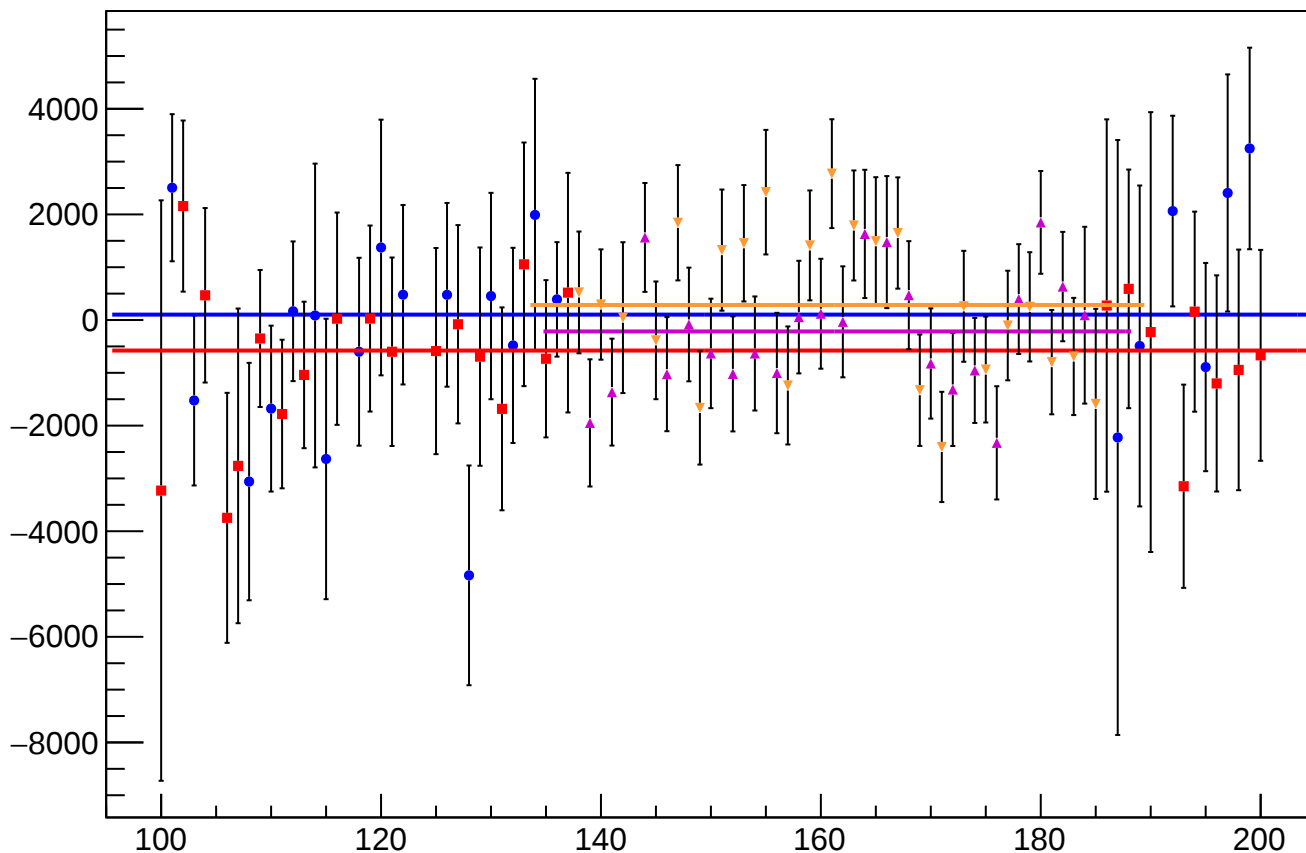
Right: 801.589+/-0.131 χ^2/NDF : 8298907.4/47

In: 555.902+/-0.079 χ^2/NDF : 5677385.8/44

Out: 560.689+/-0.077 χ^2/NDF : 7744117.2/49

All: 558.330+/-0.055 χ^2/NDF : 13423386.2/94

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 102.387 $\pm$ 393.300 χ^2 /NDF: 20.6/21

Left Out: 285.144 $\pm$ 224.378 χ^2 /NDF:38.3/23

Right Out: -578.037 $\pm$ 377.358 χ^2 /NDF: 10.4/25

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

Left: 35.874 $\pm$ 159.089 χ^2 /NDF: 65.2/46

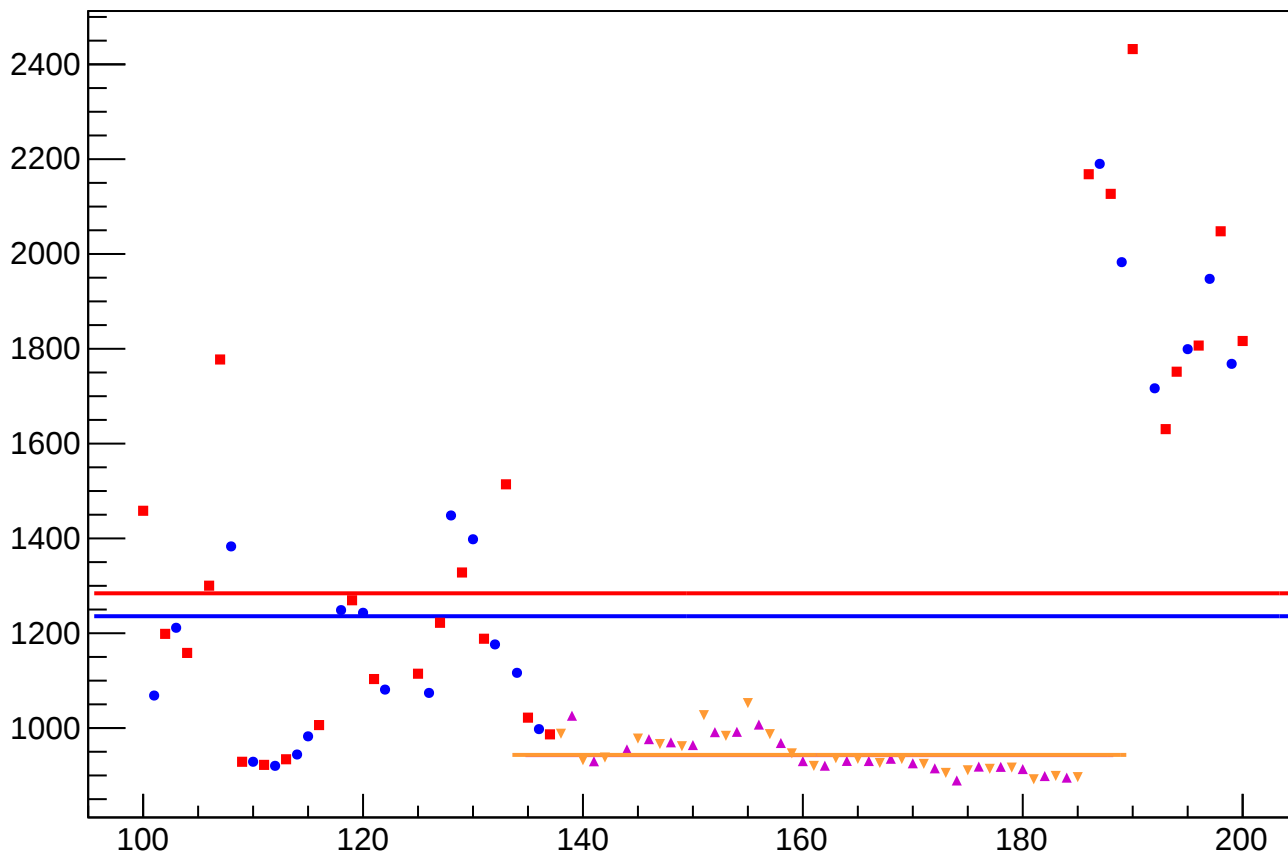
Right: -251.894 $\pm$ 272.294 χ^2 /NDF: 32.6/47

In: -137.268 $\pm$ 195.692 χ^2 /NDF:45.5/44

Out: 59.680 $\pm$ 192.860 χ^2 /NDF:52.6/49

All: -37.359 $\pm$ 137.363 χ^2 /NDF: 98.6/94

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1235.896+/-0.278 χ^2/NDF : 1278081.9/21

Left Out: 943.351+/-0.159 χ^2/NDF : 60365.2/23

Right Out: 1284.228+/-0.267 χ^2/NDF : 1921579.5/25

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

Left: 943.140+/-0.112 χ^2/NDF : 108771.7/46

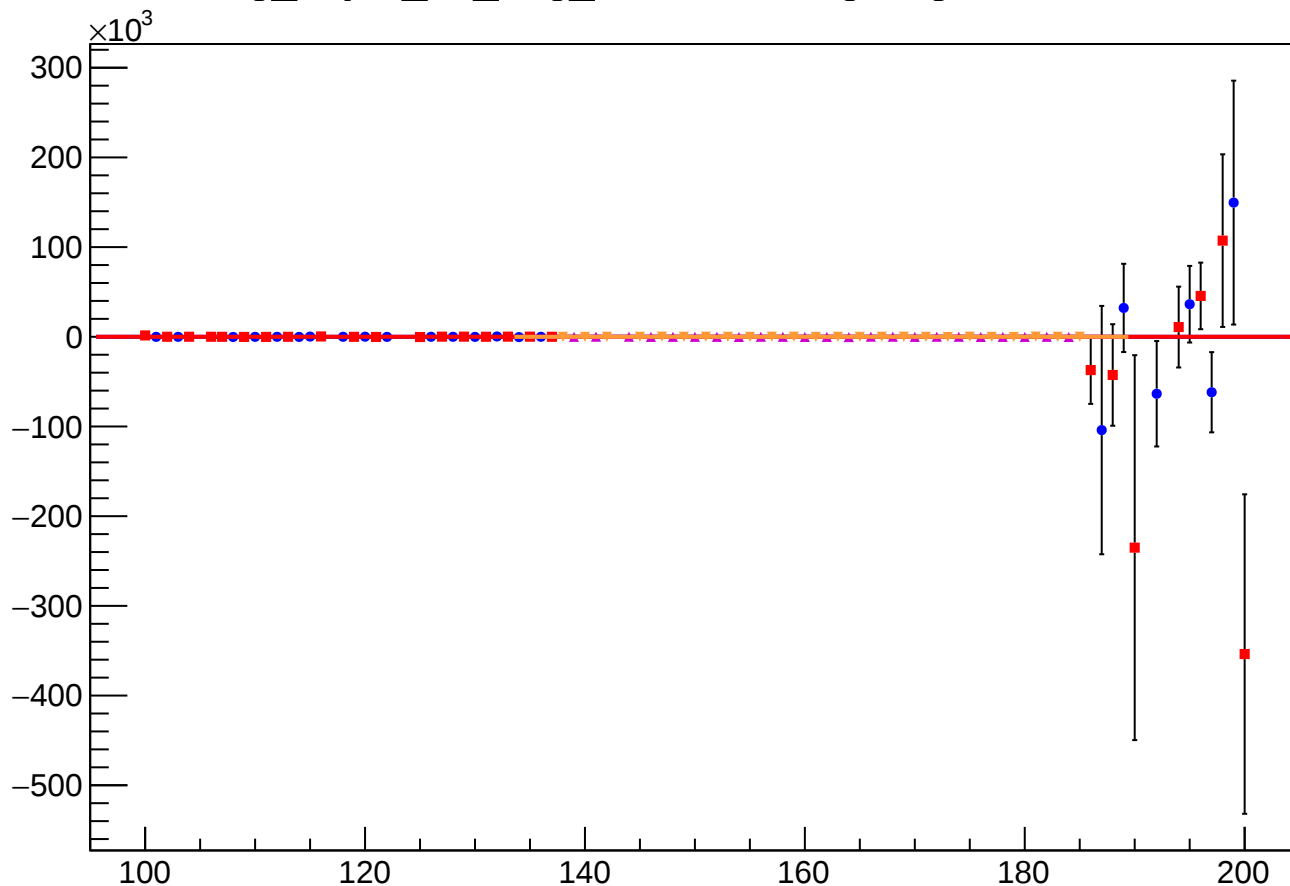
Right: 1261.061+/-0.193 χ^2/NDF : 3215387.2/47

In: 1015.457+/-0.138 χ^2/NDF : 2161499.8/44

Out: 1032.389+/-0.136 χ^2/NDF : 3187657.5/49

All: 1024.046+/-0.097 χ^2/NDF : 5356752.3/94

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.563 ± 30.032 $\chi^2/\text{NDF}: 22.0/21$

Left Out: 3.710 ± 21.467 $\chi^2/\text{NDF}: 22.4/23$

Right Out: 31.749 ± 30.492 $\chi^2/\text{NDF}: 26.3/24$

Left In: -22.931 ± 21.584 $\chi^2/\text{NDF}: 22.5/22$

Left: -9.538 ± 15.221 $\chi^2/\text{NDF}: 45.7/46$

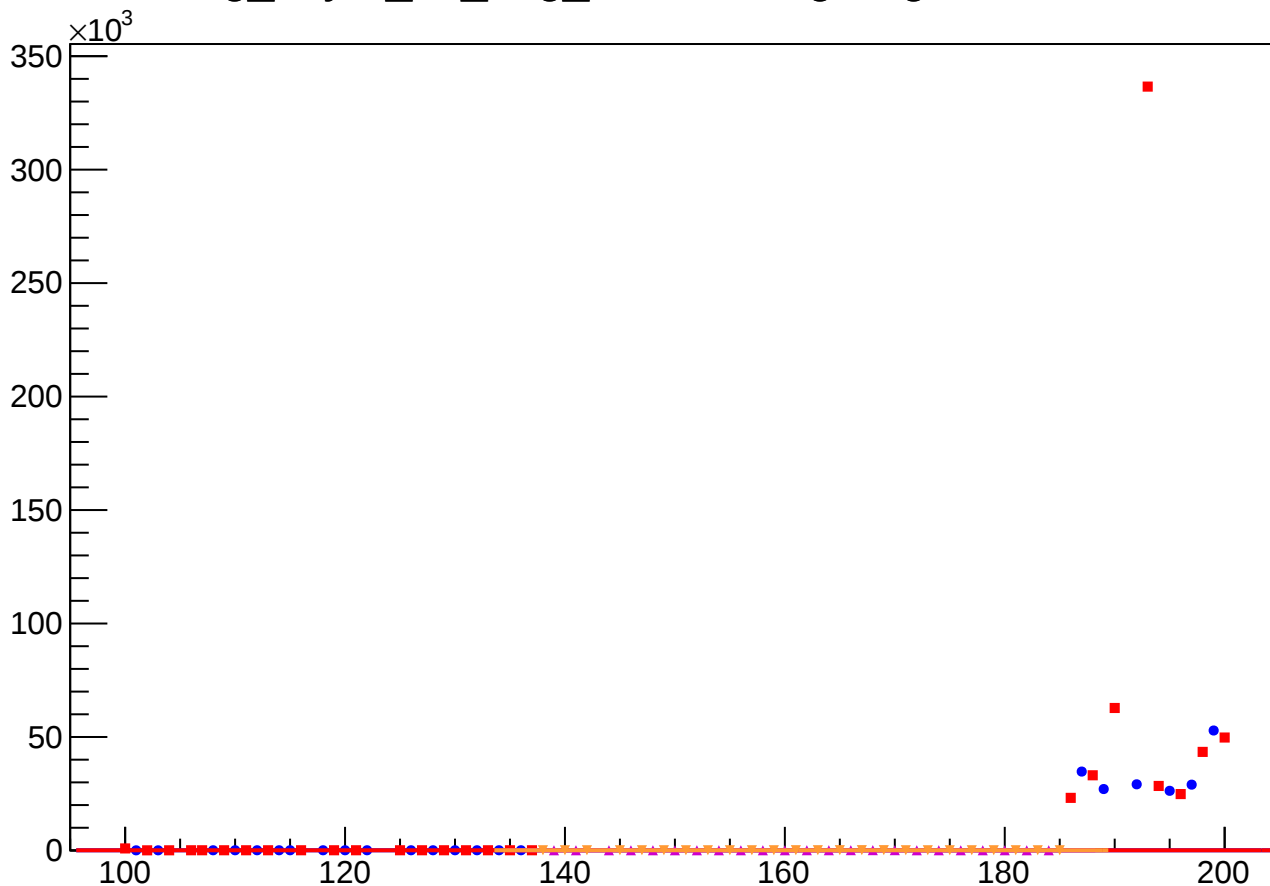
Right: 7.734 ± 21.397 $\chi^2/\text{NDF}: 49.5/46$

In: -20.422 ± 17.527 $\chi^2/\text{NDF}: 44.5/44$

Out: 13.003 ± 17.553 $\chi^2/\text{NDF}: 49.3/48$

All: -3.735 ± 12.403 $\chi^2/\text{NDF}: 95.6/93$

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.102 $\pm$ 0.021 χ^2 /NDF: 3585589.6/21

Left Out: 89.692 $\pm$ 0.015 χ^2 /NDF: 466281.5/23

Right Out: 79.433 $\pm$ 0.022 χ^2 /NDF: 4348386.8/25

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

Left: 89.644 $\pm$ 0.011 χ^2 /NDF: 974812.8/46

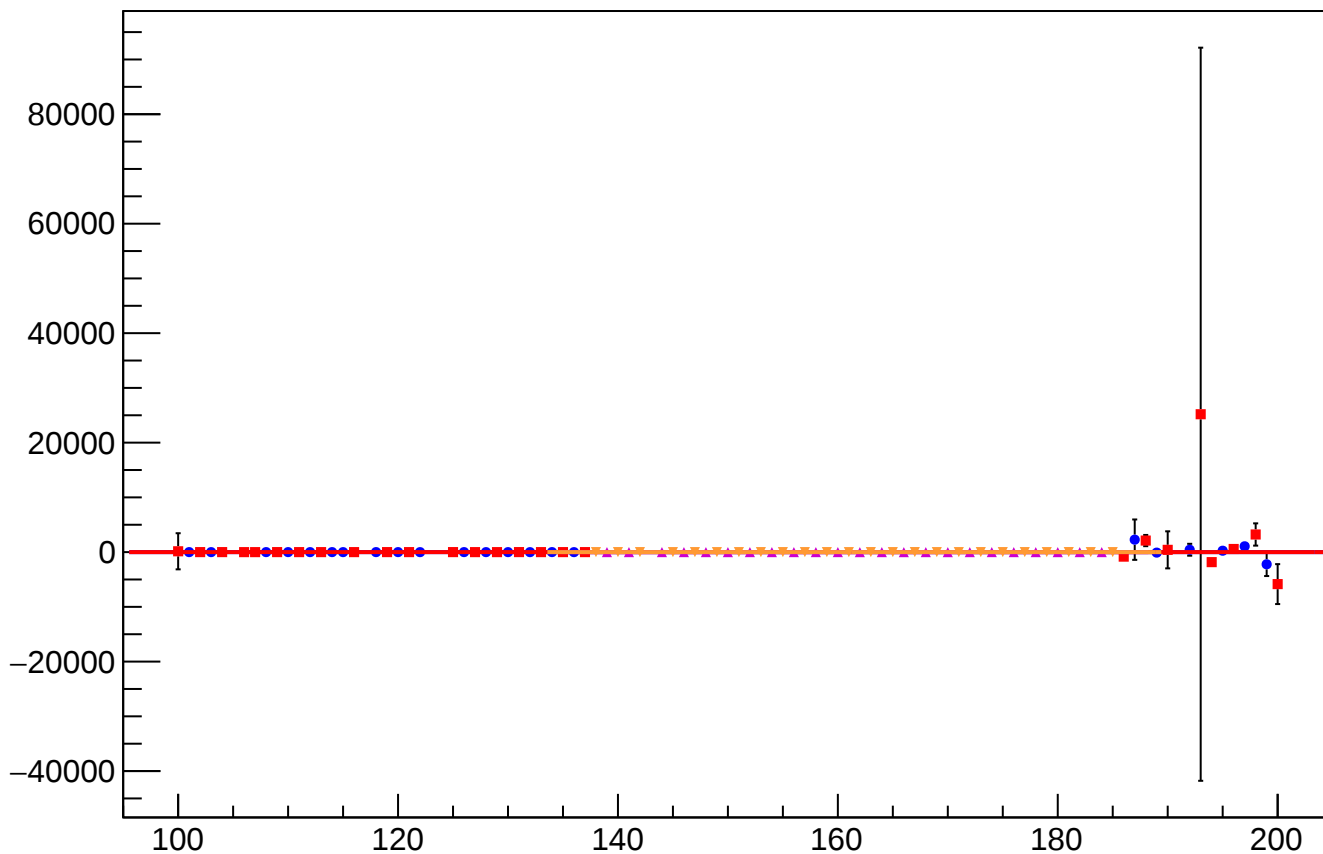
Right: 77.742 $\pm$ 0.015 χ^2 /NDF: 7946095.3/47

In: 85.000 $\pm$ 0.012 χ^2 /NDF: 4360330.5/44

Out: 86.292 $\pm$ 0.012 χ^2 /NDF: 4966031.5/49

All: 85.645 $\pm$ 0.009 χ^2 /NDF: 9331794.5/94

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 ± 0.502 χ^2/NDF : 24.0/21

Left Out: 0.126 ± 0.377 χ^2/NDF : 21.3/23

Right Out: 0.038 ± 0.525 χ^2/NDF : 25.4/25

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

Left: -0.188 ± 0.270 χ^2/NDF : 49.1/46

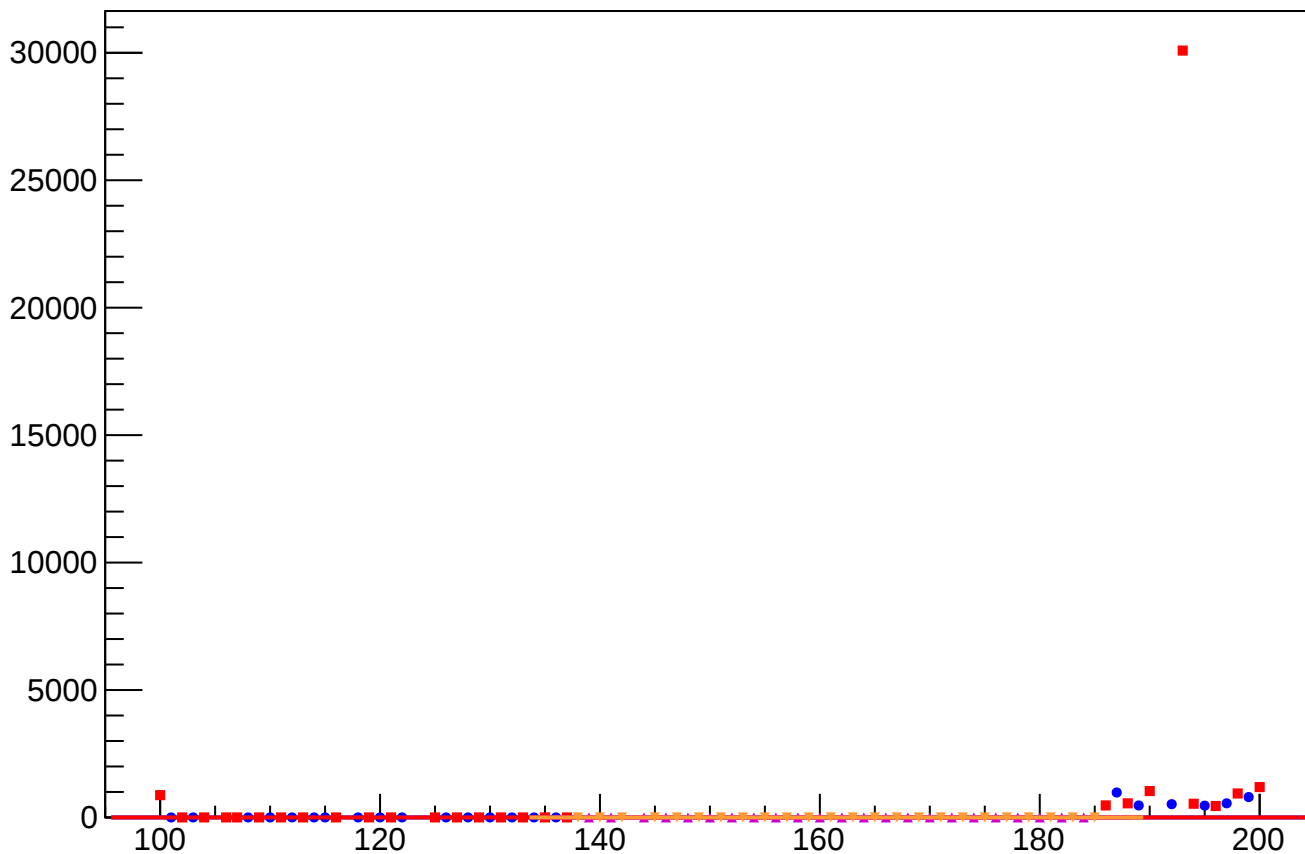
Right: -0.133 ± 0.363 χ^2/NDF : 49.6/47

In: -0.433 ± 0.306 χ^2/NDF : 50.5/44

Out: 0.096 ± 0.306 χ^2/NDF : 46.7/49

All: -0.168 ± 0.217 χ^2/NDF : 98.7/94

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 3284761.5/21

Left Out: 1.408+/-0.000 χ^2/NDF : 987553.0/23

Right Out: 1.260+/-0.000 χ^2/NDF : 4504677.2/25

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

Left: 1.430+/-0.000 χ^2/NDF : 1997169.8/46

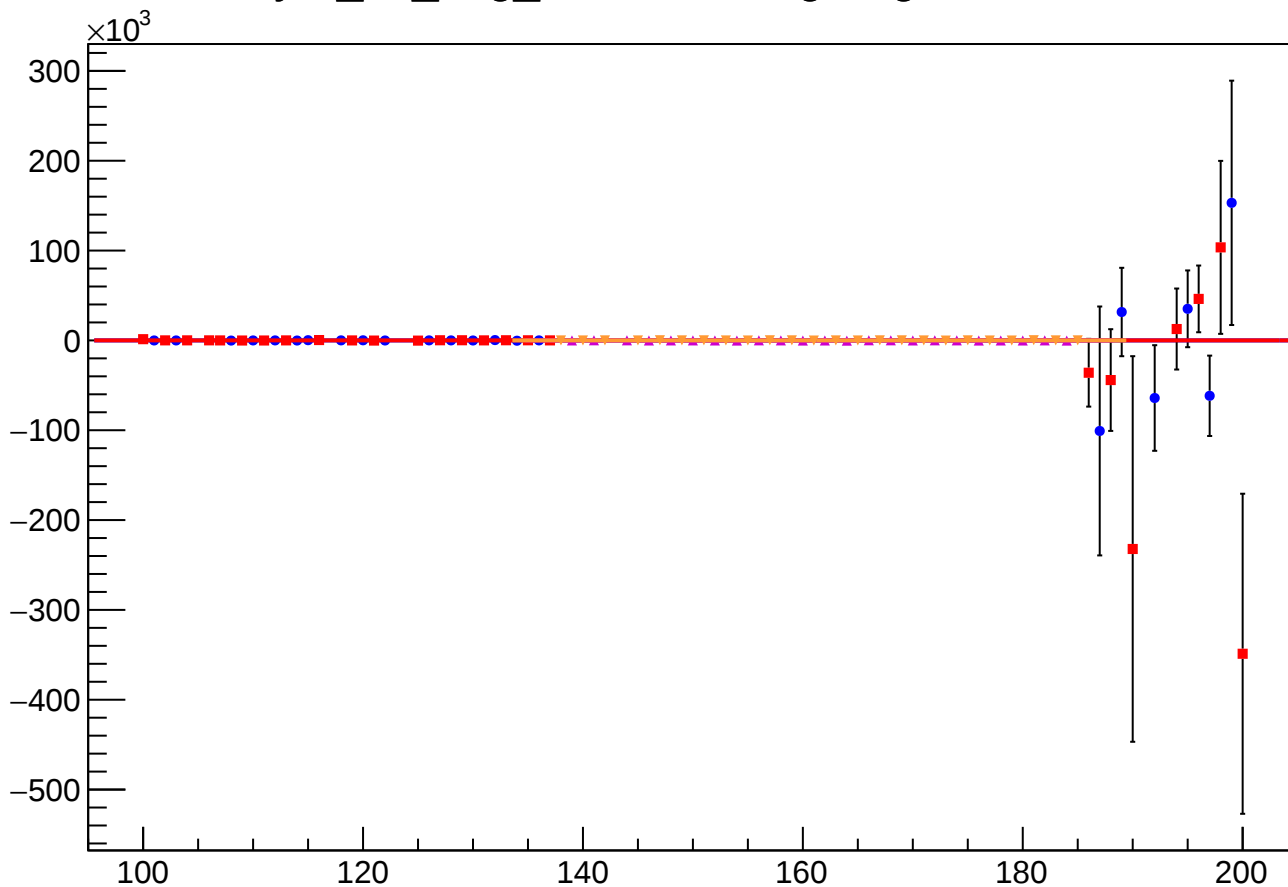
Right: 1.204+/-0.000 χ^2/NDF : 7832994.3/47

In: 1.341+/-0.000 χ^2/NDF : 4730408.5/44

Out: 1.358+/-0.000 χ^2/NDF : 5597755.5/49

All: 1.350+/-0.000 χ^2/NDF : 10331160.4/94

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.500 ± 30.040 χ^2/NDF : 22.2/21

Left Out: 3.497 ± 21.474 χ^2/NDF : 22.1/23

Right Out: 32.029 ± 30.500 χ^2/NDF : 26.1/24

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

Left: -9.404 ± 15.226 χ^2/NDF : 45.2/46

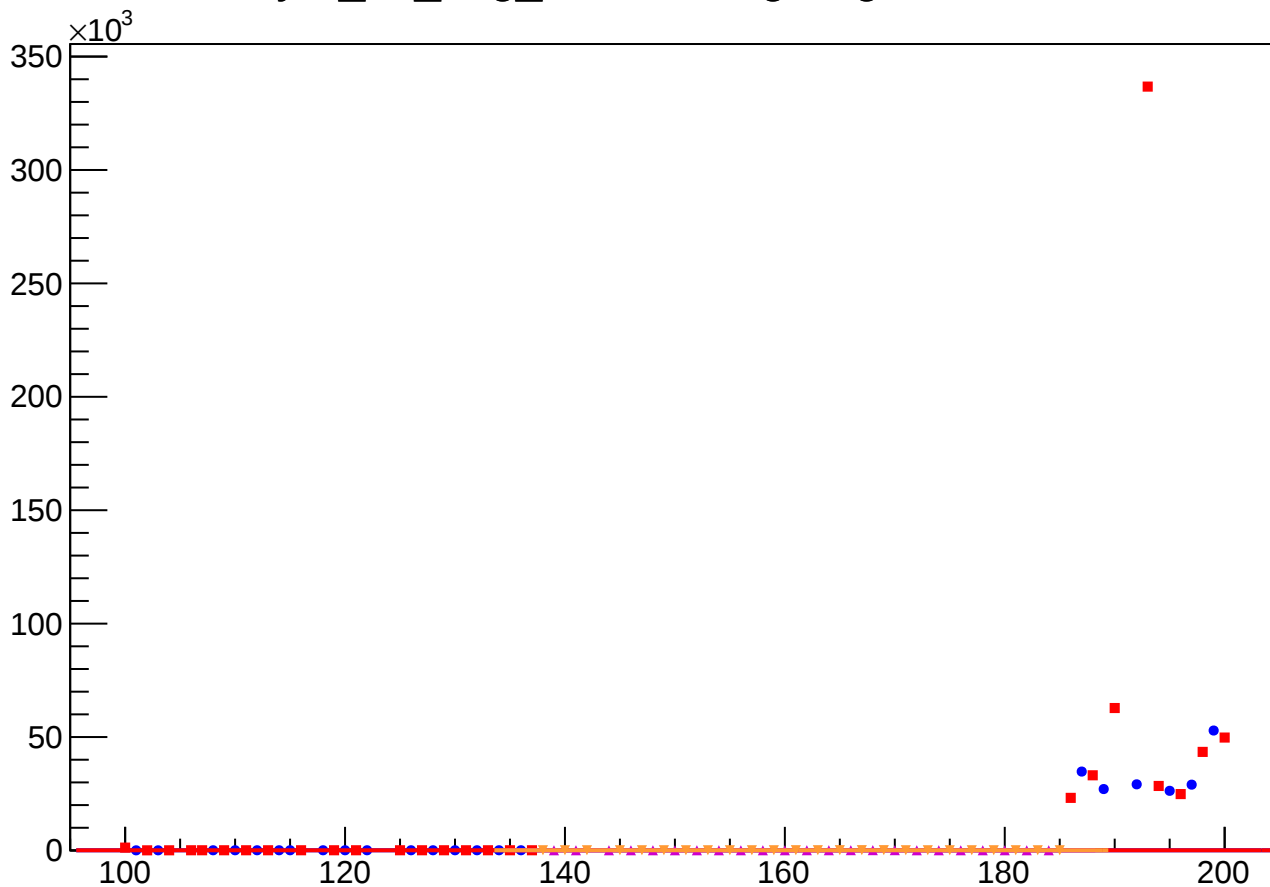
Right: 8.411 ± 21.402 χ^2/NDF : 49.5/46

In: -19.739 ± 17.532 χ^2/NDF : 44.6/44

Out: 12.953 ± 17.559 χ^2/NDF : 48.8/48

All: -3.418 ± 12.407 χ^2/NDF : 95.1/93

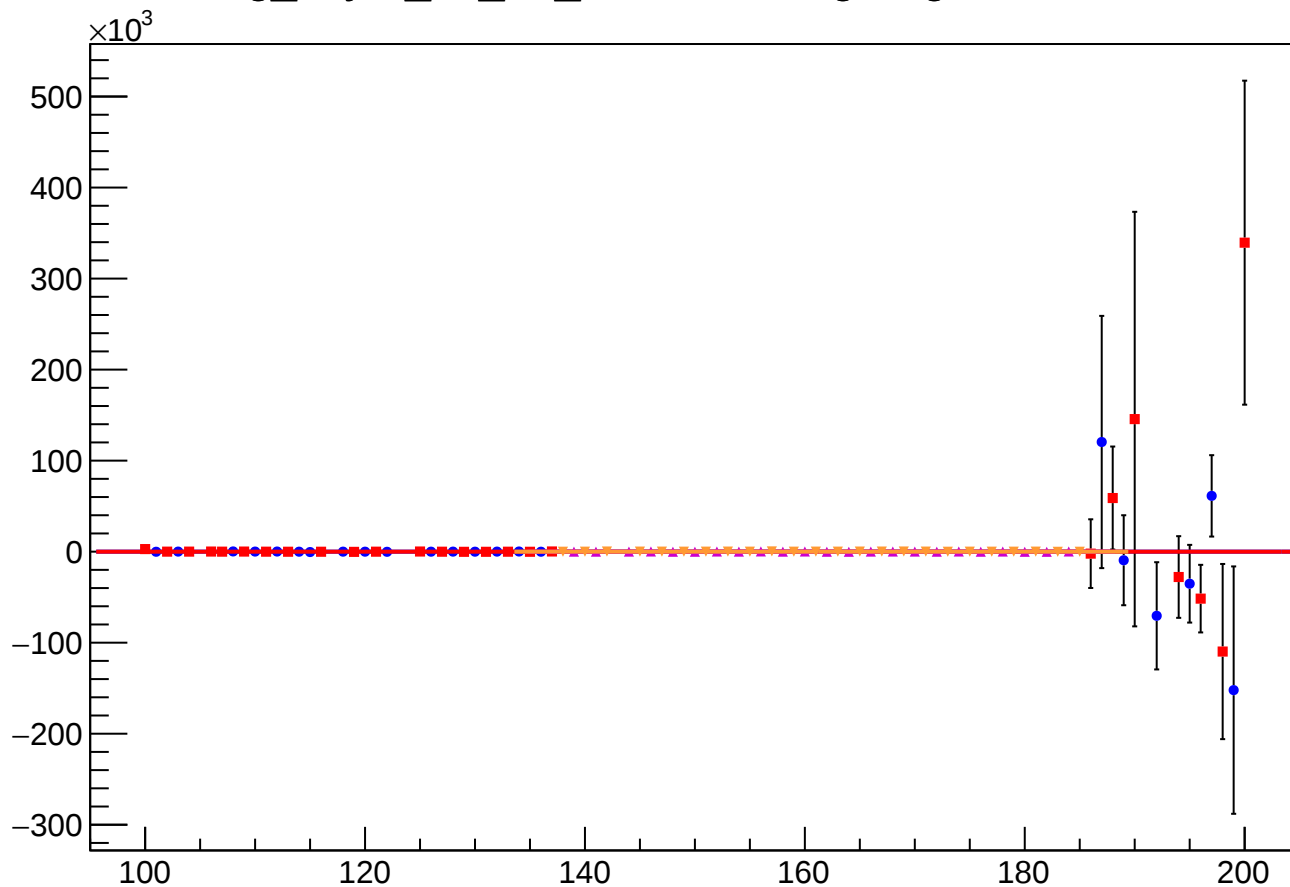
asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.122+/-0.021 χ^2/NDF : 3585646.1/21
 Left Out: 89.719+/-0.015 χ^2/NDF : 467023.5/23
 Right Out: 79.437+/-0.022 χ^2/NDF : 4354969.9/25
 Left In: 89.622+/-0.015 χ^2/NDF : 509391.8/22

Left: 89.671+/-0.011 χ^2/NDF : 976435.5/46
 Right: 77.754+/-0.015 χ^2/NDF : 7952609.2/47
 In: 85.024+/-0.012 χ^2/NDF : 4361390.0/44
 Out: 86.311+/-0.012 χ^2/NDF : 4973959.2/49
 All: 85.666+/-0.009 χ^2/NDF : 9340735.5/94

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.100 ± 30.012 $\chi^2/\text{NDF}: 20.1/21$

Left Out: 15.274 ± 21.472 $\chi^2/\text{NDF}: 17.2/23$

Right Out: -25.805 ± 30.473 $\chi^2/\text{NDF}: 21.5/24$

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

Left: 29.270 ± 15.226 $\chi^2/\text{NDF}: 49.5/46$

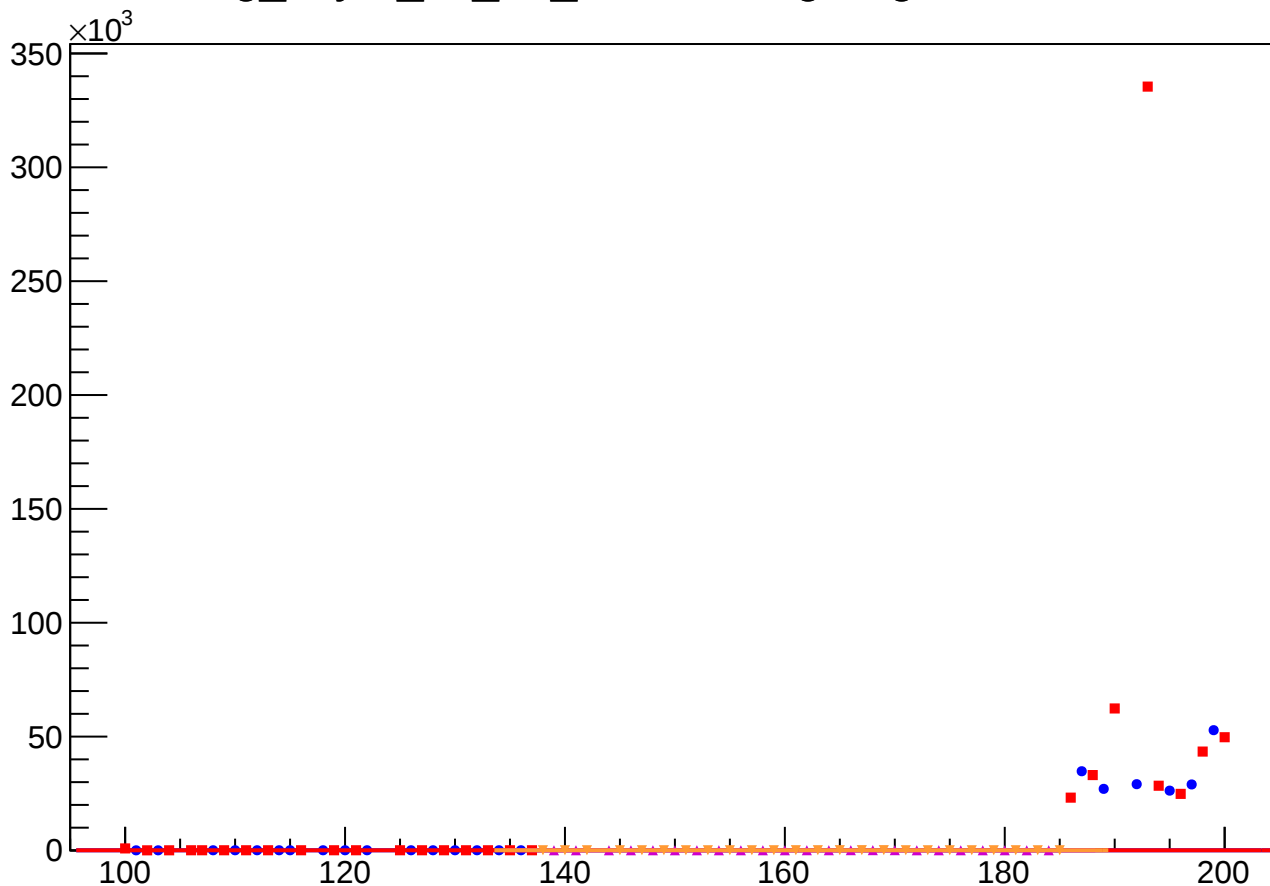
Right: -8.594 ± 21.383 $\chi^2/\text{NDF}: 42.2/46$

In: 31.375 ± 17.528 $\chi^2/\text{NDF}: 52.4/44$

Out: 1.645 ± 17.552 $\chi^2/\text{NDF}: 39.9/48$

All: 16.531 ± 12.403 $\chi^2/\text{NDF}: 93.8/93$

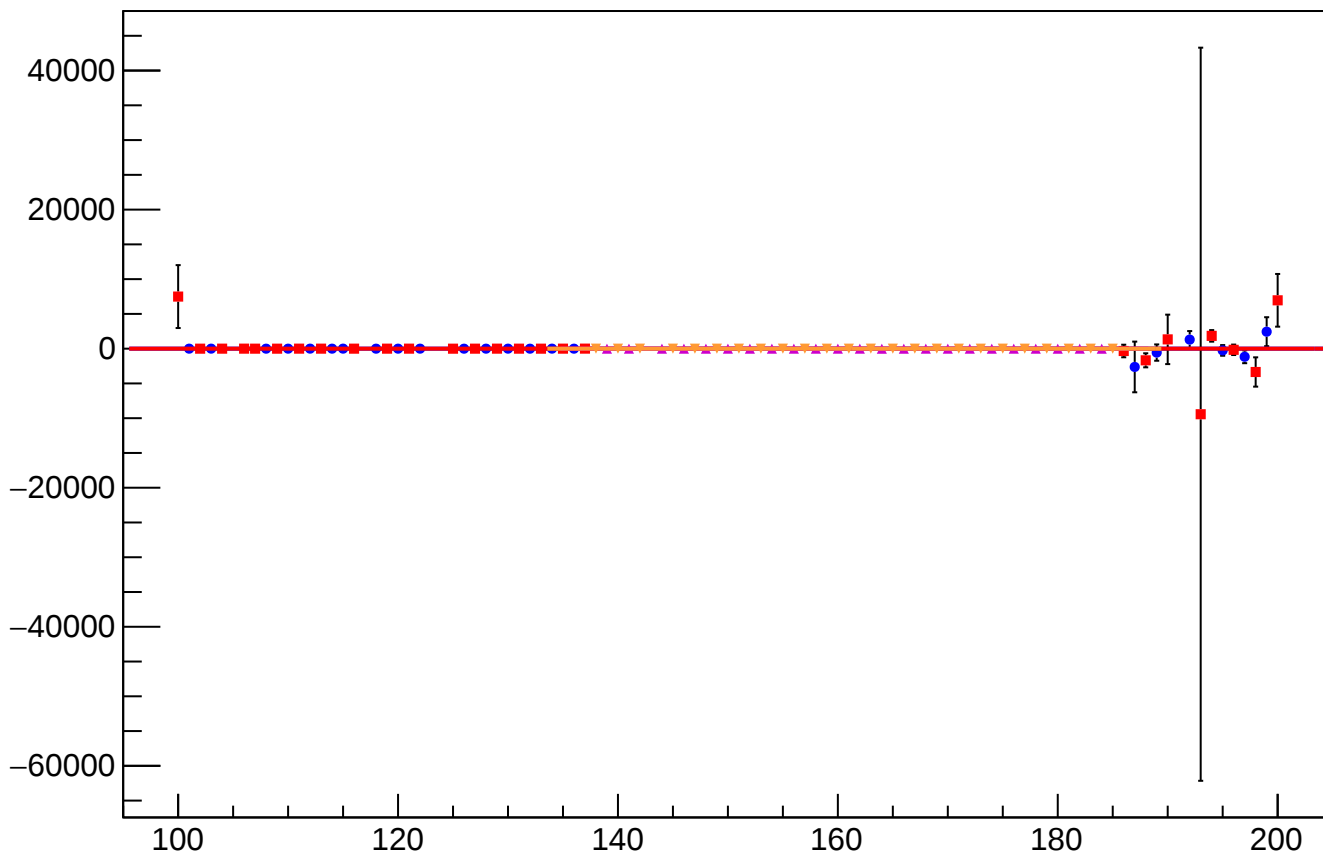
reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.053 $\pm$ 0.021 χ^2 /NDF: 3584603.9/21
 Left Out: 89.712 $\pm$ 0.015 χ^2 /NDF: 465096.2/23
 Right Out: 79.385 $\pm$ 0.022 χ^2 /NDF: 4347799.5/25
 Left In: 89.628 $\pm$ 0.015 χ^2 /NDF: 511042.3/22

Left: 89.670 $\pm$ 0.011 χ^2 /NDF: 976153.9/46
 Right: 77.693 $\pm$ 0.015 χ^2 /NDF: 7944543.2/47
 In: 84.997 $\pm$ 0.012 χ^2 /NDF: 4365261.3/44
 Out: 86.286 $\pm$ 0.012 χ^2 /NDF: 4966388.9/49
 All: 85.641 $\pm$ 0.009 χ^2 /NDF: 9337044.7/94

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 16.9/21$

Left Out: -0.516 ± 0.391 $\chi^2/\text{NDF}: 20.7/23$

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 27.4/25$

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

Left: -0.293 ± 0.276 $\chi^2/\text{NDF}: 41.7/46$

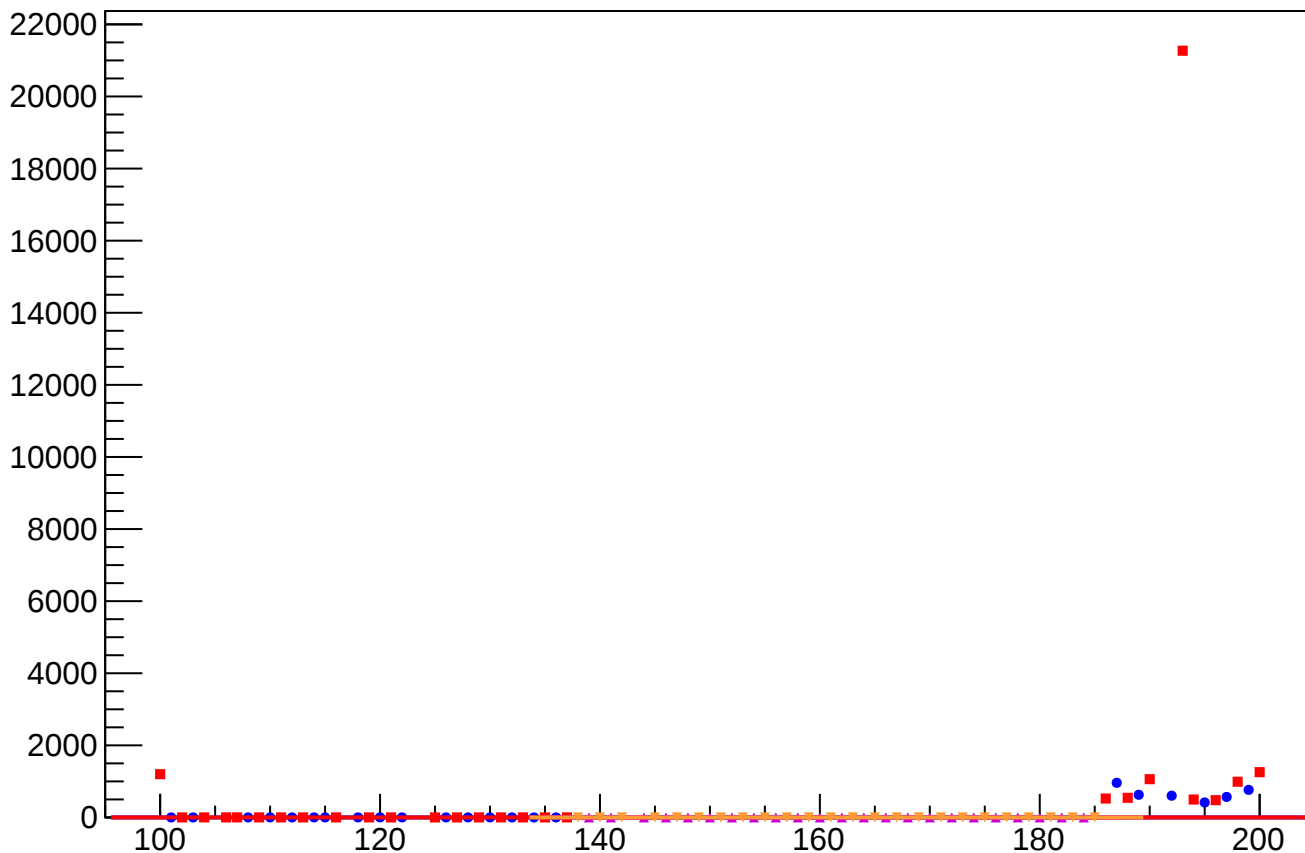
Right: 0.628 ± 0.382 $\chi^2/\text{NDF}: 44.7/47$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 39.4/44$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 49.7/49$

All: 0.023 ± 0.224 $\chi^2/\text{NDF}: 90.3/94$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 3427605.9/21

Left Out: 1.470+/-0.000 χ^2/NDF : 1154842.2/23

Right Out: 1.316+/-0.000 χ^2/NDF : 4469157.6/25

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

Left: 1.466+/-0.000 χ^2/NDF : 2203936.9/46

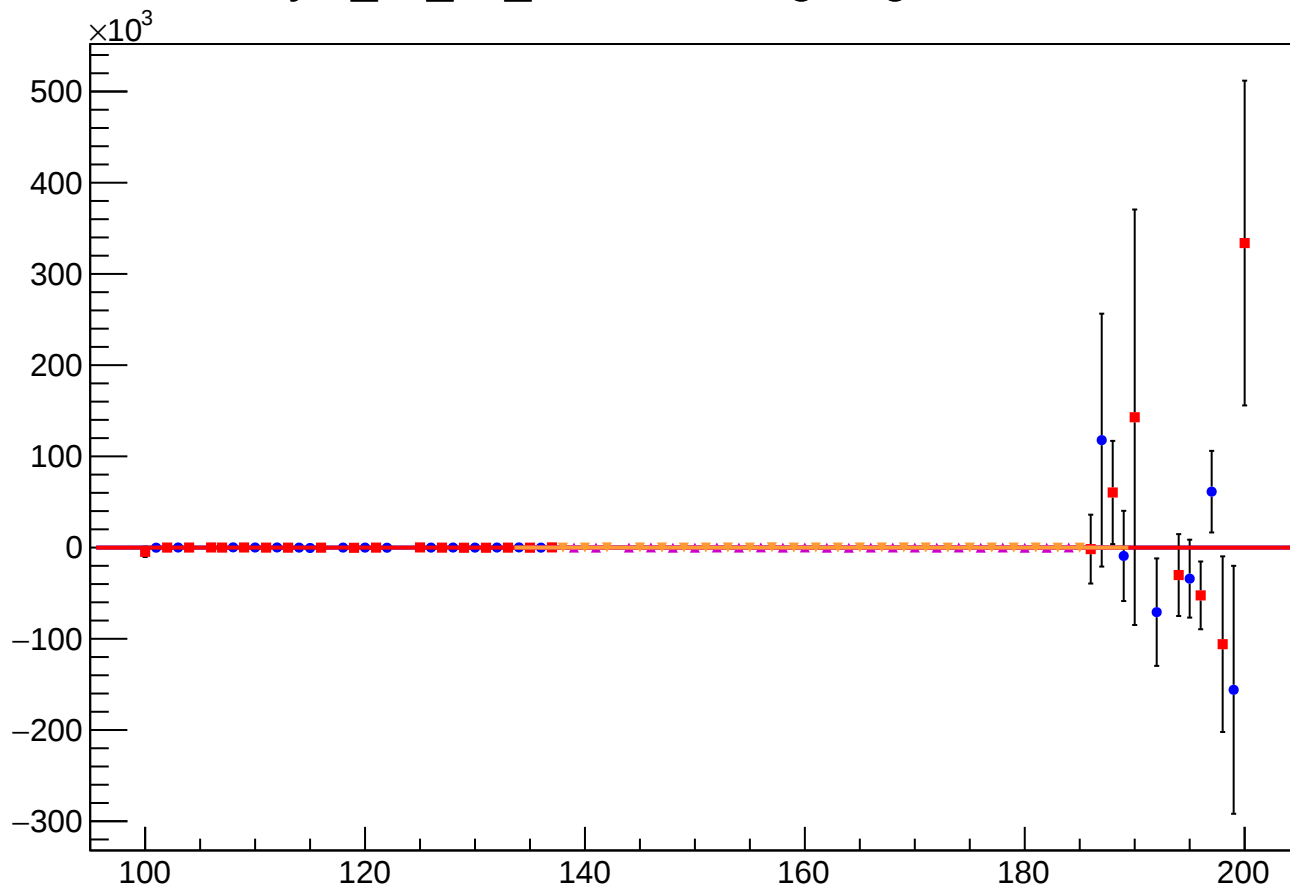
Right: 1.274+/-0.000 χ^2/NDF : 7920074.7/47

In: 1.381+/-0.000 χ^2/NDF : 4713839.8/44

Out: 1.418+/-0.000 χ^2/NDF : 5728523.5/49

All: 1.400+/-0.000 χ^2/NDF : 10456056.6/94

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.393 ± 30.020 $\chi^2/\text{NDF}: 19.9/21$

Left Out: 15.770 ± 21.479 $\chi^2/\text{NDF}: 17.1/23$

Right Out: -26.415 ± 30.482 $\chi^2/\text{NDF}: 21.7/24$

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

Left: 29.758 ± 15.231 $\chi^2/\text{NDF}: 49.0/46$

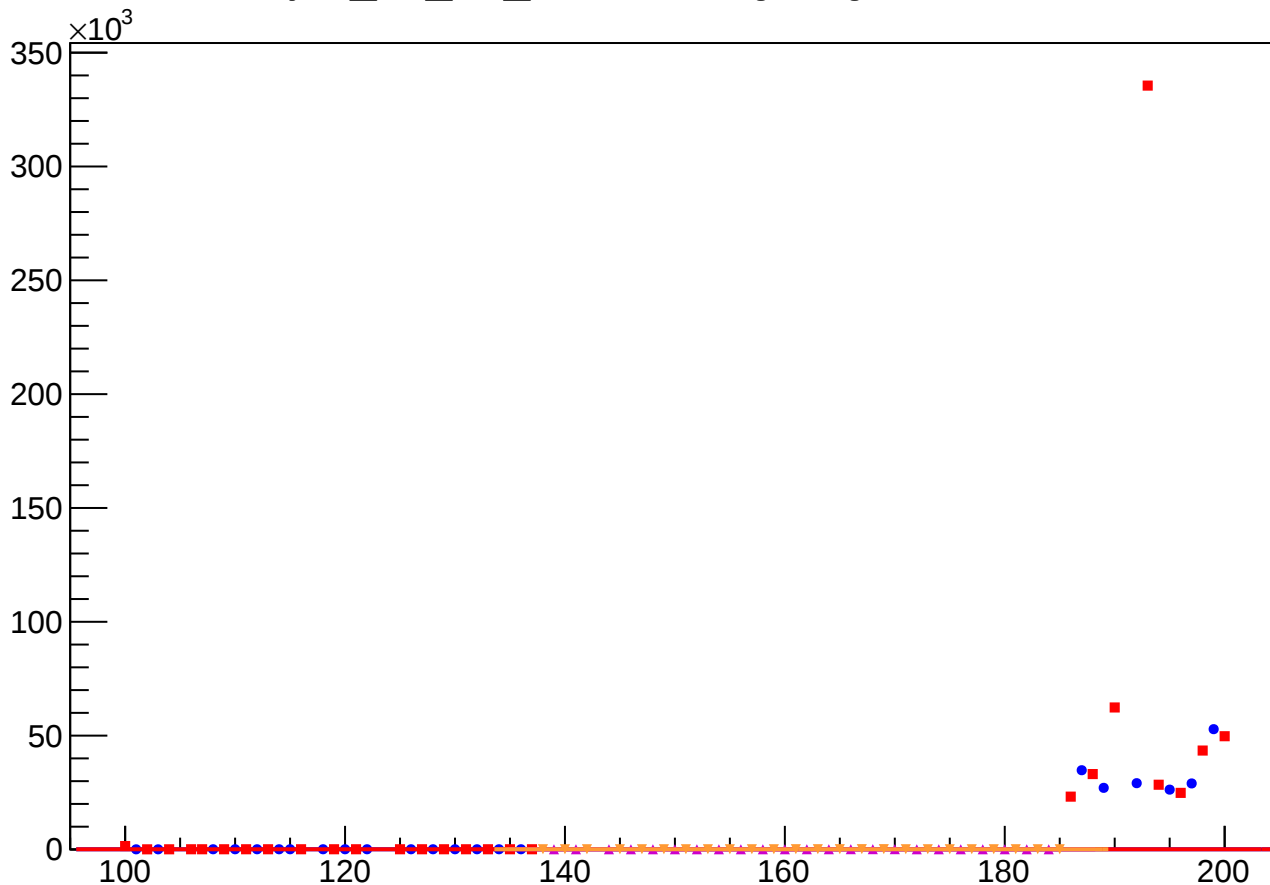
Right: -9.253 ± 21.389 $\chi^2/\text{NDF}: 42.3/46$

In: 31.450 ± 17.533 $\chi^2/\text{NDF}: 52.0/44$

Out: 1.774 ± 17.558 $\chi^2/\text{NDF}: 40.0/48$

All: 16.633 ± 12.407 $\chi^2/\text{NDF}: 93.5/93$

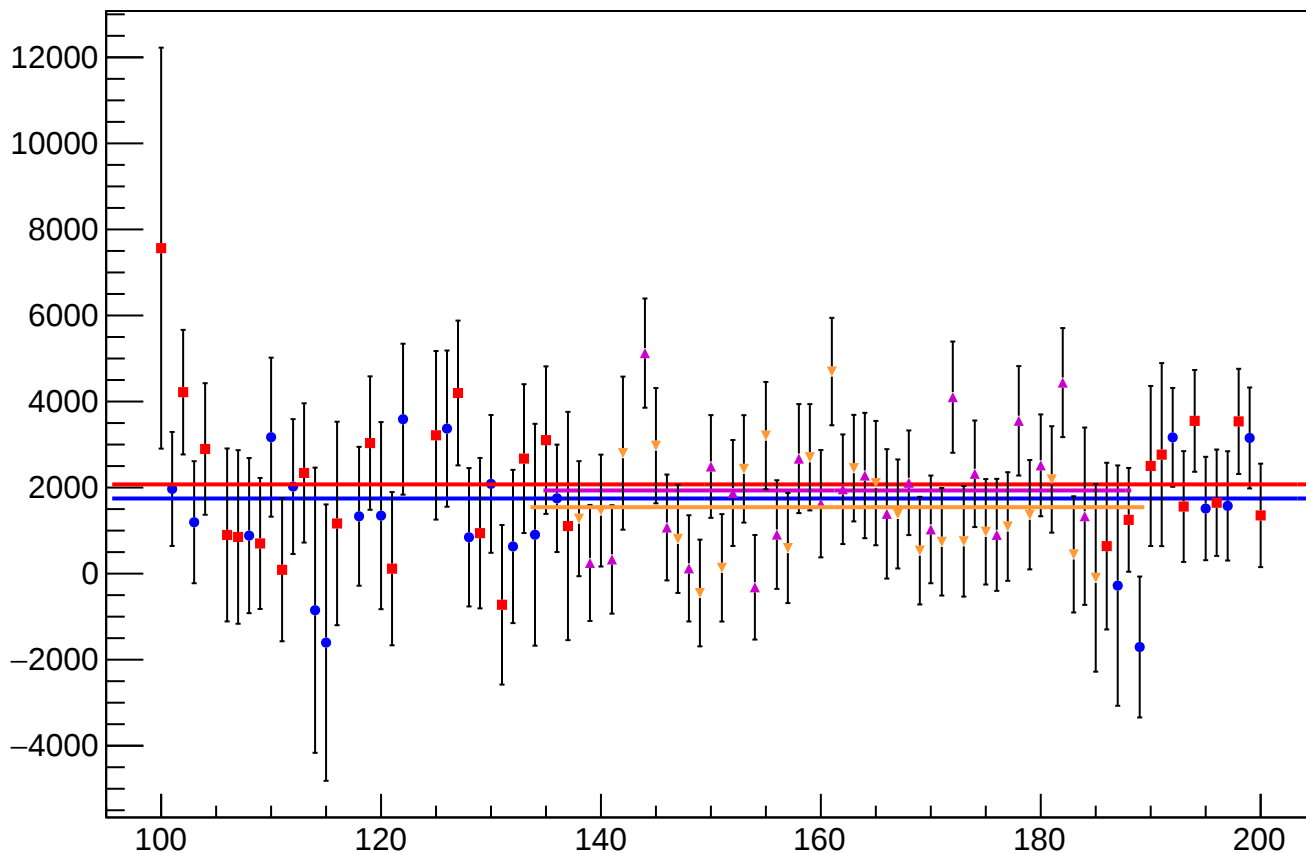
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.073 $\pm$ 0.021 χ^2 /NDF: 3584697.0/21
 Left Out: 89.740 $\pm$ 0.015 χ^2 /NDF: 465842.6/23
 Right Out: 79.381 $\pm$ 0.022 χ^2 /NDF: 4357098.6/25
 Left In: 89.655 $\pm$ 0.015 χ^2 /NDF: 511848.9/22

Left: 89.697 $\pm$ 0.011 χ^2 /NDF: 977707.1/46
 Right: 77.702 $\pm$ 0.015 χ^2 /NDF: 7953755.2/47
 In: 85.022 $\pm$ 0.012 χ^2 /NDF: 4366256.9/44
 Out: 86.303 $\pm$ 0.012 χ^2 /NDF: 4977261.6/49
 All: 85.661 $\pm$ 0.009 χ^2 /NDF: 9348849.8/94

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1746.160+/-339.653 χ^2/NDF : 13.6/21

Left Out: 1544.102+/-266.270 χ^2/NDF : 20.0/23

Right Out: 2073.859+/-310.475 χ^2/NDF : 18.6/26

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

Left: 1737.287+/-188.892 χ^2/NDF : 48.0/46

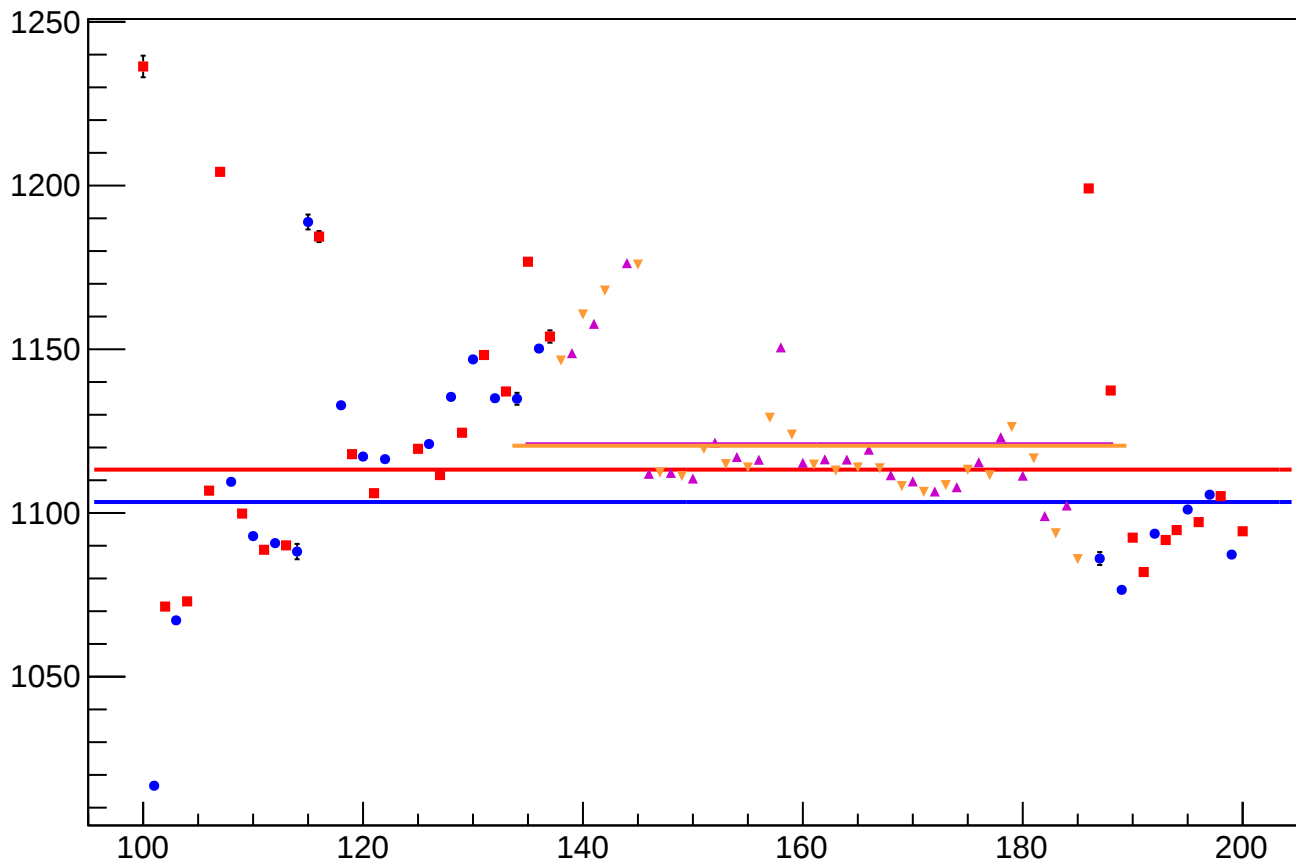
Right: 1924.688+/-229.161 χ^2/NDF : 32.7/48

In: 1861.307+/-210.396 χ^2/NDF : 40.8/44

Out: 1768.614+/-202.119 χ^2/NDF : 40.3/50

All: 1813.102+/-145.758 χ^2/NDF : 81.2/95

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1103.351+/-0.240 χ^2/NDF : 19752.8/21

Left Out: 1120.543+/-0.188 χ^2/NDF : 10252.7/23

Right Out: 1113.243+/-0.220 χ^2/NDF : 23183.8/26

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

Left: 1120.765+/-0.134 χ^2/NDF : 19897.3/46

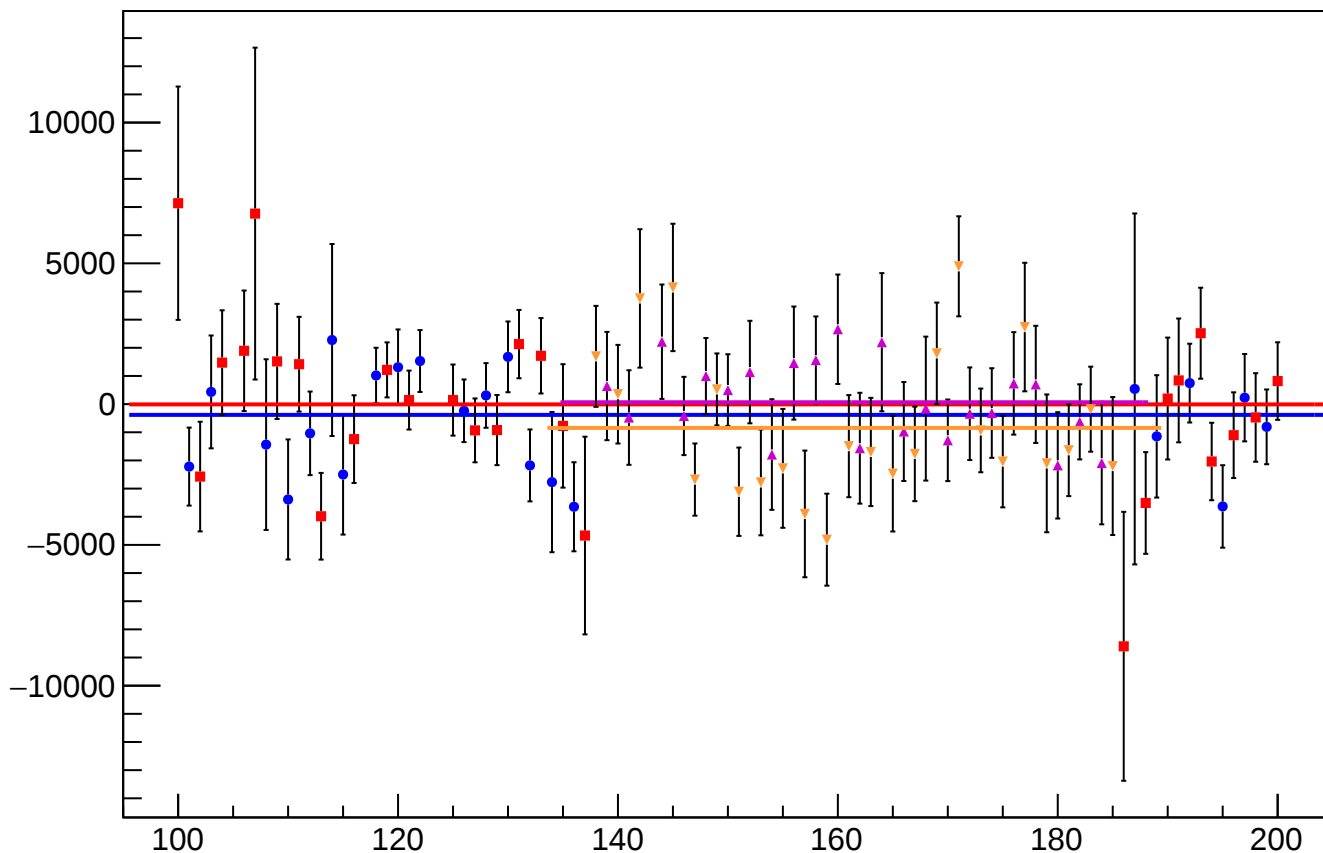
Right: 1108.740+/-0.162 χ^2/NDF : 43860.8/48

In: 1114.222+/-0.149 χ^2/NDF : 32719.1/44

Out: 1117.449+/-0.143 χ^2/NDF : 34073.5/50

All: 1115.901+/-0.103 χ^2/NDF : 67037.3/95

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -382.141 ± 318.619 $\chi^2/\text{NDF}: 28.7/21$

Left Out: -845.009 ± 361.141 $\chi^2/\text{NDF}: 43.2/23$

Right Out: -9.429 ± 303.348 $\chi^2/\text{NDF}: 38.2/26$

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

Left: -386.655 ± 254.528 $\chi^2/\text{NDF}: 58.6/46$

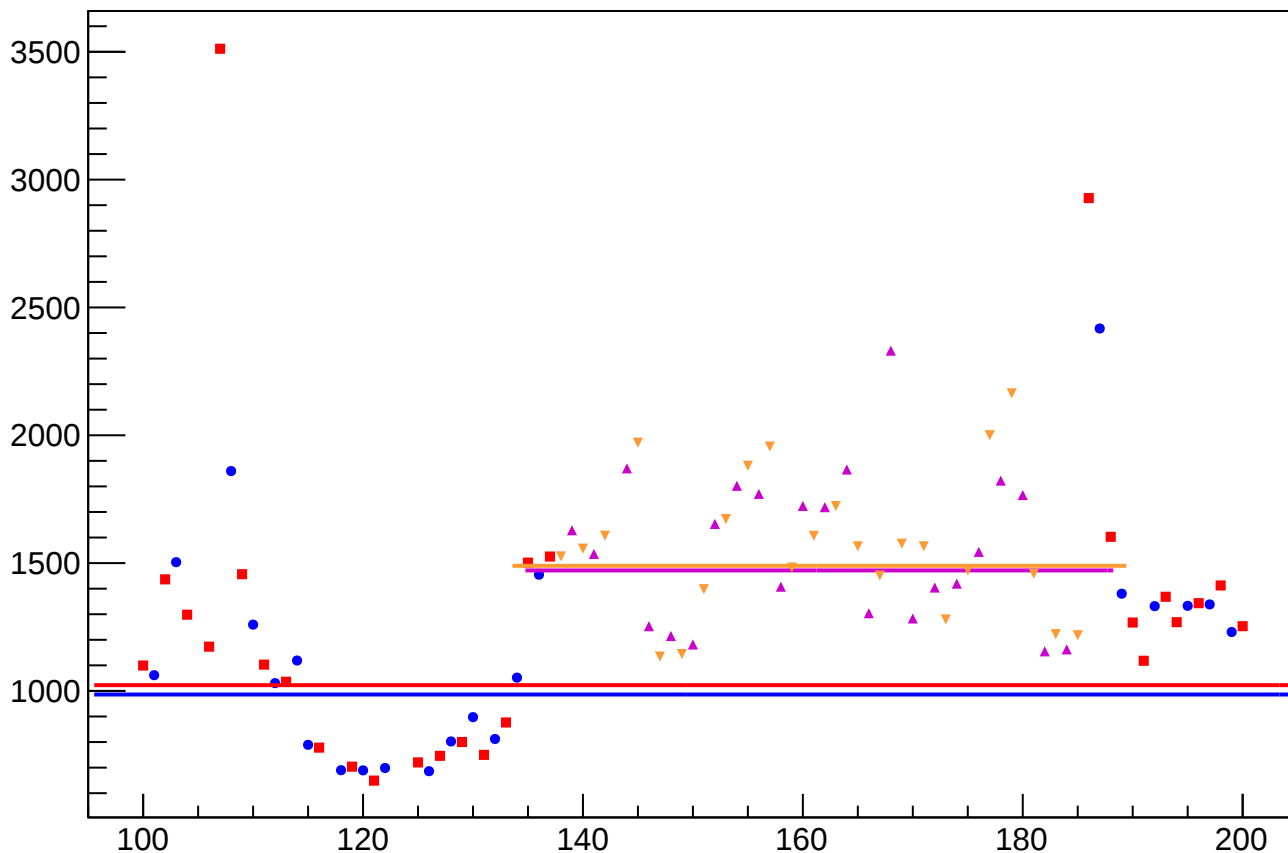
Right: -186.639 ± 219.700 $\chi^2/\text{NDF}: 67.6/48$

In: -184.665 ± 238.238 $\chi^2/\text{NDF}: 41.7/44$

Out: -355.091 ± 232.278 $\chi^2/\text{NDF}: 84.6/50$

All: -272.036 ± 166.313 $\chi^2/\text{NDF}: 126.6/95$

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 986.006+/-0.225 χ^2/NDF : 1773896.3/21

Left Out: 1489.507+/-0.255 χ^2/NDF : 1009228.3/23

Right Out: 1022.588+/-0.214 χ^2/NDF : 2649734.9/26

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

Left: 1480.391+/-0.180 χ^2/NDF : 2117070.9/46

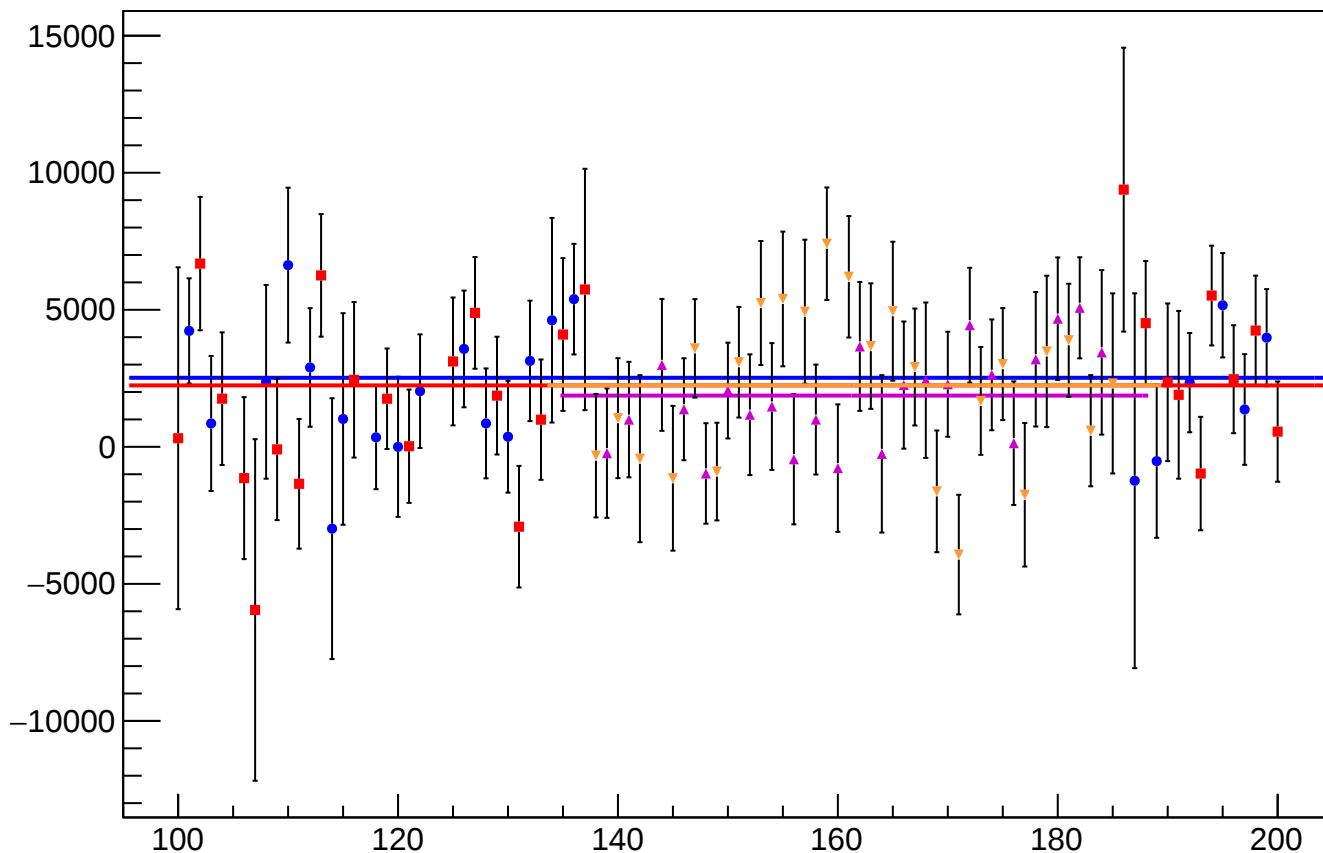
Right: 1005.195+/-0.155 χ^2/NDF : 4437460.4/48

In: 1200.020+/-0.168 χ^2/NDF : 4925730.8/44

Out: 1215.743+/-0.164 χ^2/NDF : 5619139.0/50

All: 1208.080+/-0.118 χ^2/NDF : 10549335.7/9

asym_usl_mean vs Slug, Sign Corrected



Right In: 2518.775 $\pm$ 490.324 χ^2 /NDF: 16.1/21

Left Out: 2244.415 $\pm$ 456.474 χ^2 /NDF:38.6/23

Right Out: 2241.465 $\pm$ 460.082 χ^2 /NDF: 33.2/26

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

Left: 2056.689 $\pm$ 322.419 χ^2 /NDF: 53.8/46

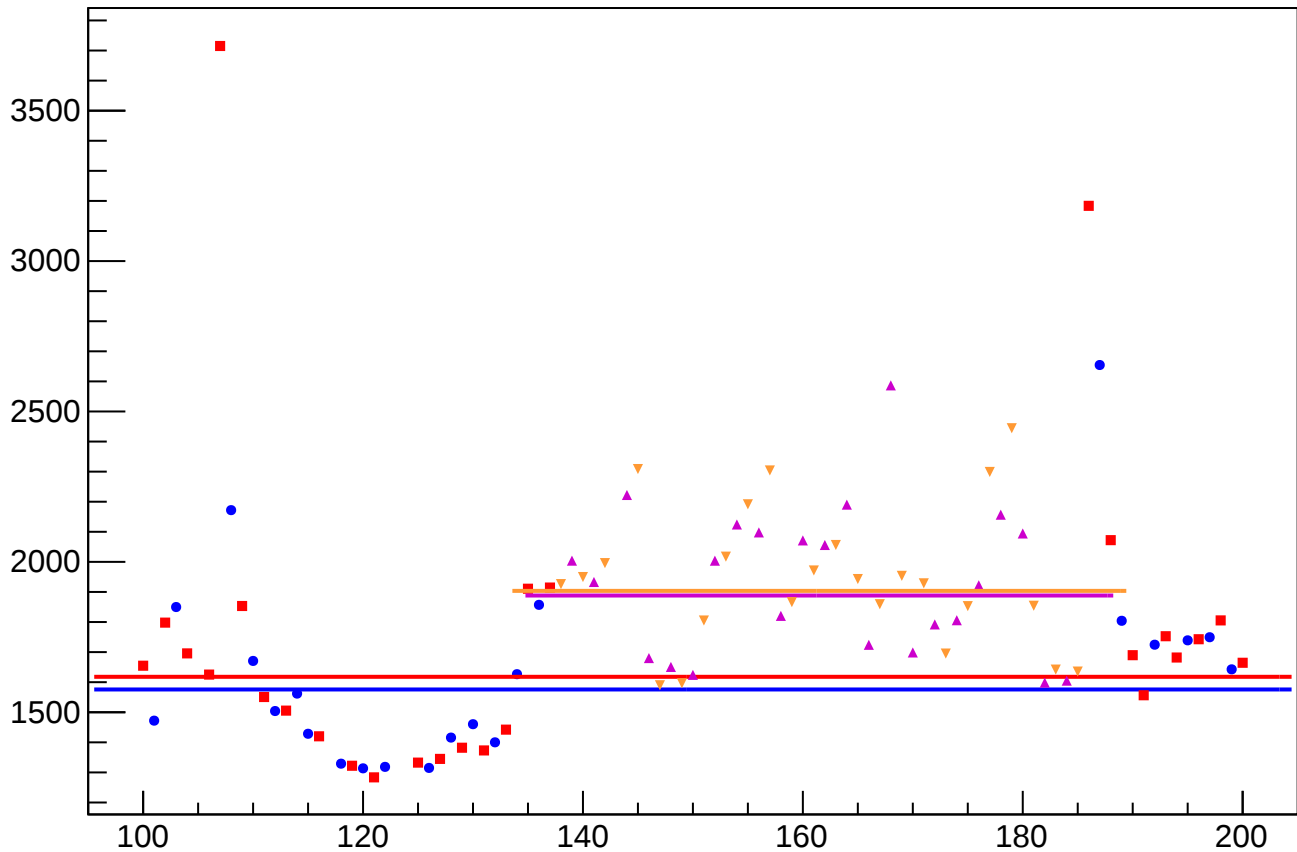
Right: 2371.305 $\pm$ 335.509 χ^2 /NDF: 49.5/48

In: 2170.396 $\pm$ 333.706 χ^2 /NDF:31.9/44

Out: 2242.952 $\pm$ 324.044 χ^2 /NDF:71.8/50

All: 2207.739 $\pm$ 232.474 χ^2 /NDF: 103.7/95

asym_usl_rms vs Slug, Sign Corrected



Right In: 1575.765 $\pm$ 0.347 χ^2/NDF : 390910.9/21

Left Out: 1903.581 $\pm$ 0.323 χ^2/NDF : 461788.9/23

Right Out: 1617.892 $\pm$ 0.325 χ^2/NDF : 838248.0/26

Left In: 1888.121 $\pm$ 0.322 χ^2/NDF : 504568.6/22

Left: 1895.834 $\pm$ 0.228 χ^2/NDF : 967507.1/46

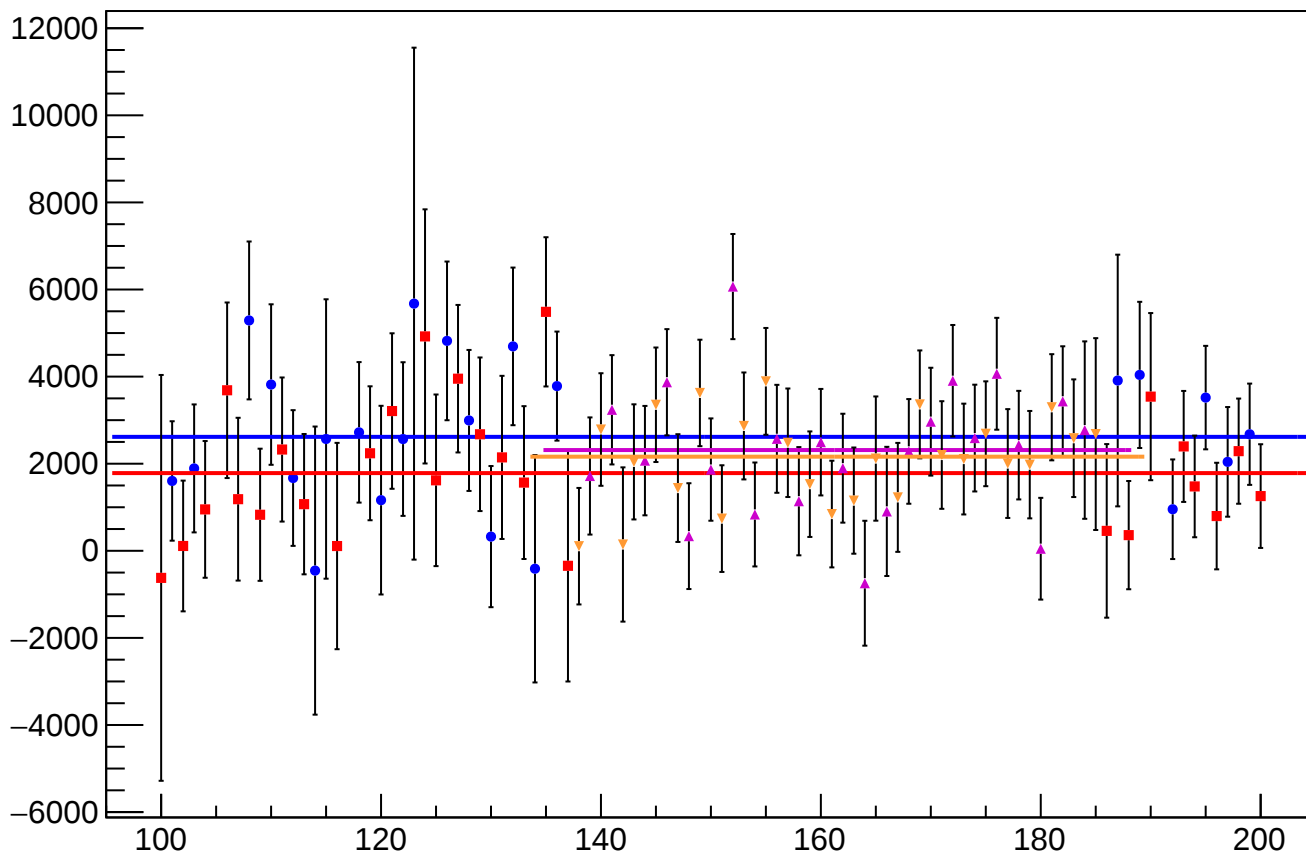
Right: 1598.168 $\pm$ 0.237 χ^2/NDF : 1237010.1/48

In: 1743.440 $\pm$ 0.236 χ^2/NDF : 1331175.5/44

Out: 1761.861 $\pm$ 0.229 χ^2/NDF : 1688652.8/50

All: 1752.921 $\pm$ 0.164 χ^2/NDF : 3022964.9/95

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2616.588 $\pm$ 340.733 χ^2 /NDF: 16.2/22

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

Right Out: 1784.408 $\pm$ 312.429 χ^2 /NDF: 17.0/26

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

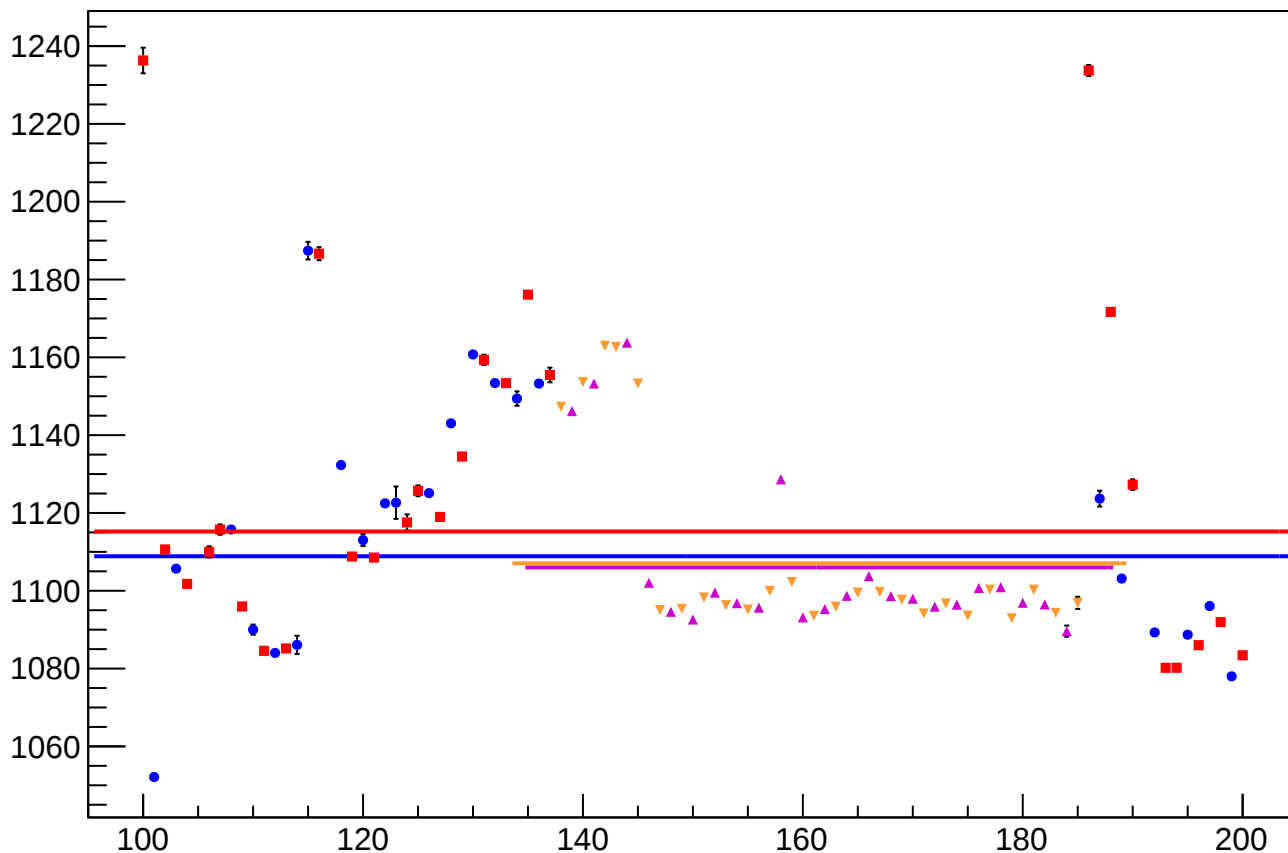
Right: 2164.504 $\pm$ 230.278 χ^2 /NDF: 36.5/49

In: 2427.429 $\pm$ 208.901 χ^2 /NDF:48.0/45

Out: 2008.907 $\pm$ 198.716 χ^2 /NDF:33.0/51

All: 2207.717 $\pm$ 143.980 χ^2 /NDF: 83.1/97

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1108.868 $\pm$ 0.241 χ^2 /NDF: 16195.1/22

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

Right Out: 1115.231 $\pm$ 0.221 χ^2 /NDF: 28358.1/26

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

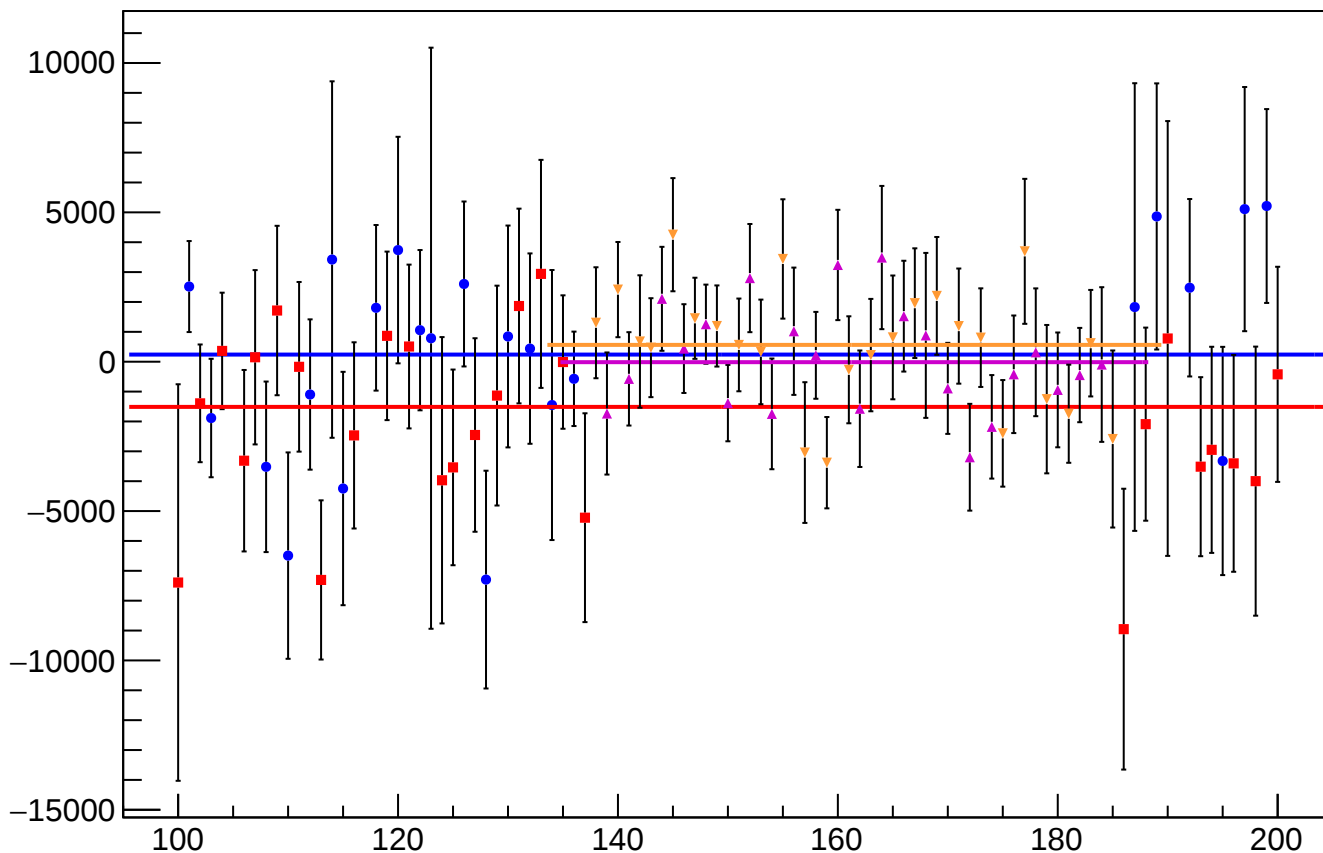
Right: 1112.325 $\pm$ 0.163 χ^2 /NDF: 44932.0/49

In: 1107.076 $\pm$ 0.148 χ^2 /NDF: 27835.1/45

Out: 1110.363 $\pm$ 0.141 χ^2 /NDF: 44348.9/51

All: 1108.802 $\pm$ 0.102 χ^2 /NDF: 72444.0/97

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 238.835 $\pm$ 605.871 χ^2 /NDF: 23.8/22

Left Out: 563.282 $\pm$ 360.901 χ^2 /NDF:26.8/24

Right Out: -1512.515 $\pm$ 594.584 χ^2 /NDF: 18.7/26

Left In: -15.520 $\pm$ 366.854 χ^2 /NDF:20.1/22

Left: 278.615 $\pm$ 257.275 χ^2 /NDF: 48.2/47

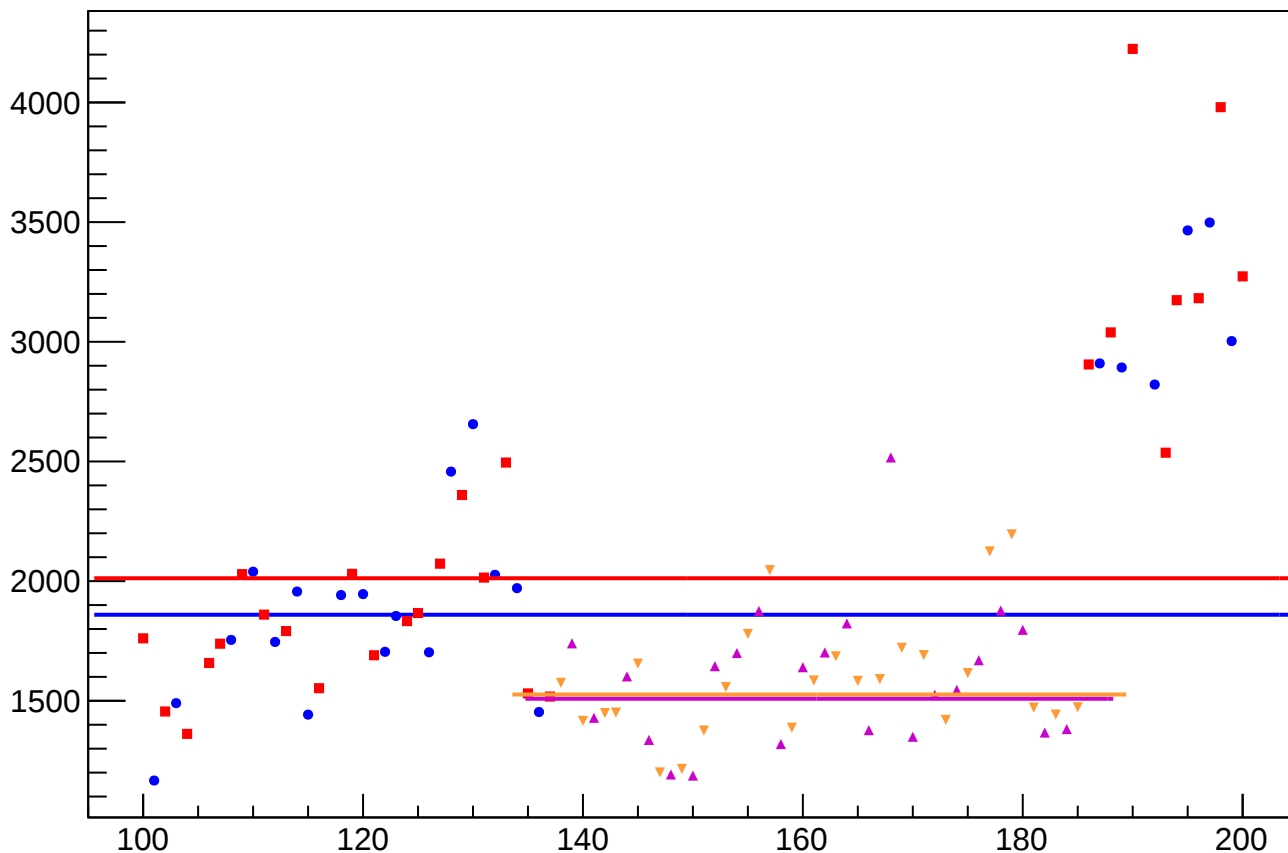
Right: -653.305 $\pm$ 424.369 χ^2 /NDF: 46.7/49

In: 52.716 $\pm$ 313.811 χ^2 /NDF:44.1/45

Out: 4.408 $\pm$ 308.516 χ^2 /NDF:54.3/51

All: 28.151 $\pm$ 220.002 χ^2 /NDF: 98.4/97

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1859.647 $\pm$ 0.428 χ^2 /NDF: 2098942.9/22

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

Right Out: 2012.094 $\pm$ 0.420 χ^2 /NDF: 2292811.8/26

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

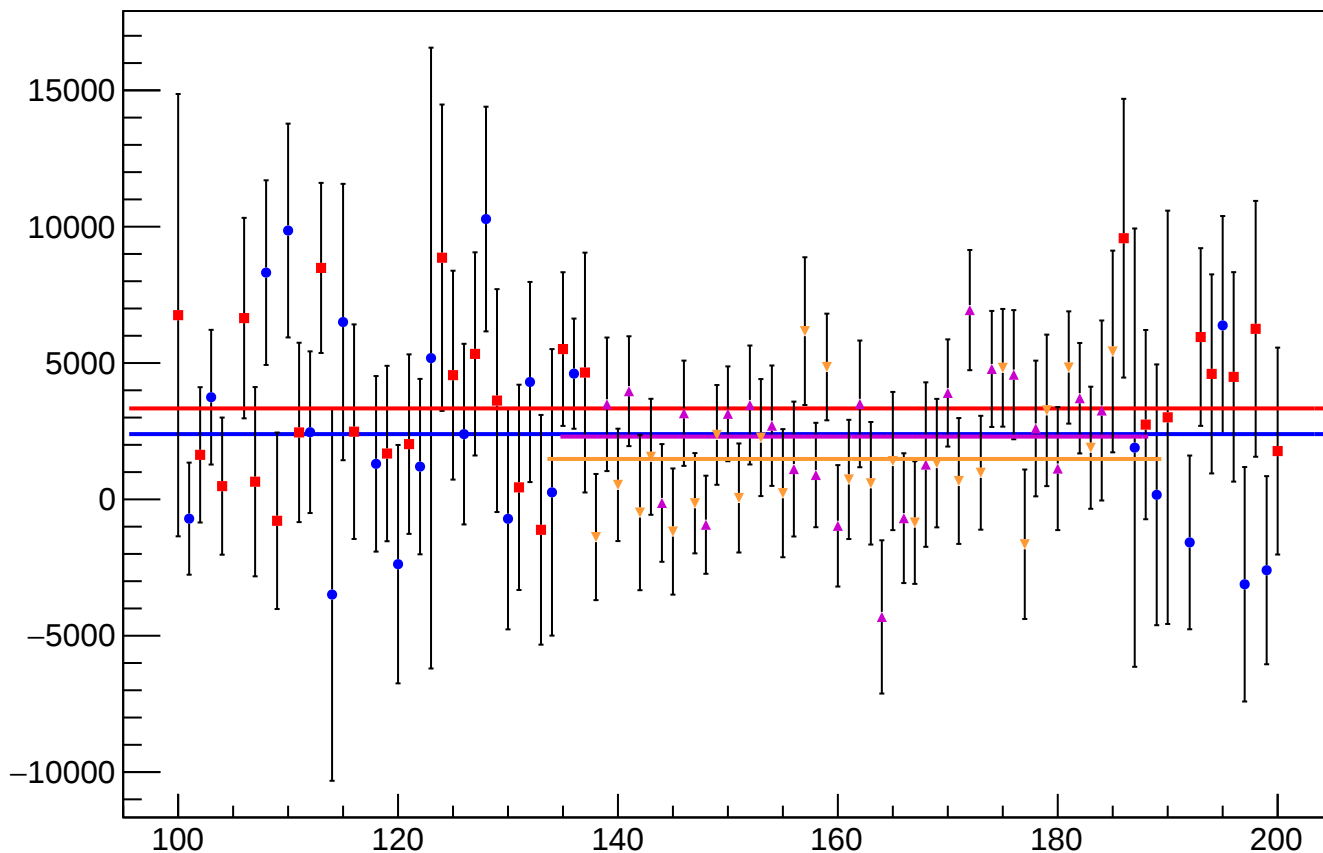
Right: 1937.304 $\pm$ 0.300 χ^2 /NDF: 4456255.8/49

In: 1602.762 $\pm$ 0.222 χ^2 /NDF: 3521984.7/45

Out: 1657.159 $\pm$ 0.218 χ^2 /NDF: 4021793.1/51

All: 1630.423 $\pm$ 0.156 χ^2 /NDF: 7574336.0/97

asym_usr_mean vs Slug, Sign Corrected



Right In: 2393.860 $\pm$ 724.521 χ^2 /NDF: 24.6/22

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

Right Out: 3335.613 $\pm$ 695.993 χ^2 /NDF: 14.9/26

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

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

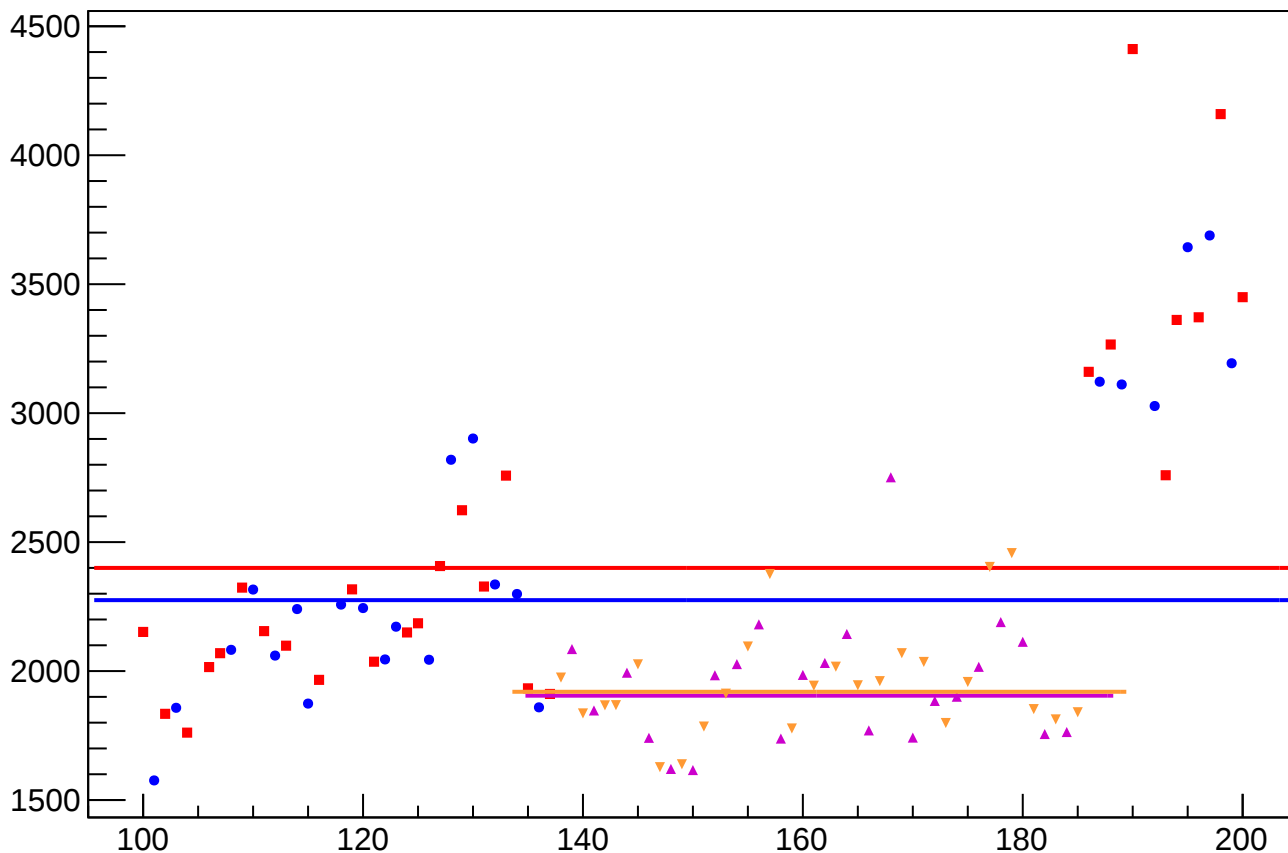
Right: 2883.642 $\pm$ 501.924 χ^2 /NDF: 40.4/49

In: 2327.775 $\pm$ 387.763 χ^2 /NDF:49.4/45

Out: 2028.673 $\pm$ 377.883 χ^2 /NDF:40.9/51

All: 2174.365 $\pm$ 270.629 χ^2 /NDF: 90.5/97

asym_usr_rms vs Slug, Sign Corrected



Right In: 2275.028+/-0.512 χ^2/NDF : 1292423.3/22

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

Right Out: 2399.960+/-0.492 χ^2/NDF : 1502326.4/26

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

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

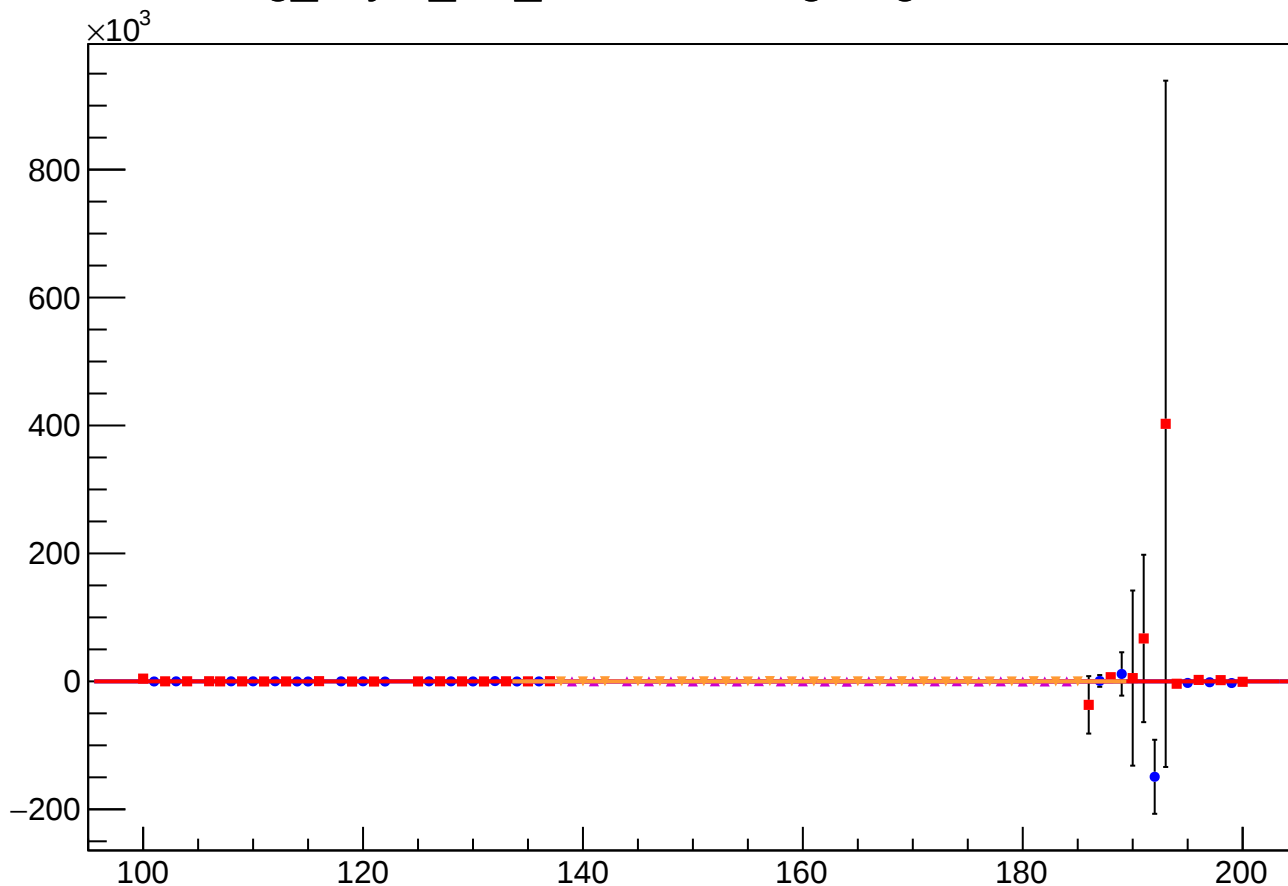
Right: 2340.002+/-0.355 χ^2/NDF : 2825676.7/49

In: 2010.725+/-0.274 χ^2/NDF : 2112767.2/45

Out: 2061.295+/-0.267 χ^2/NDF : 2540030.6/51

All: 2036.663+/-0.191 χ^2/NDF : 4670244.8/97

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.266 ± 36.767 $\chi^2/\text{NDF}: 24.1/21$

Left Out: 12.260 ± 26.260 $\chi^2/\text{NDF}: 35.9/23$

Right Out: 1.898 ± 36.751 $\chi^2/\text{NDF}: 17.4/26$

Left In: 24.786 ± 26.343 $\chi^2/\text{NDF}: 36.4/22$

Left: 18.503 ± 18.598 $\chi^2/\text{NDF}: 72.4/46$

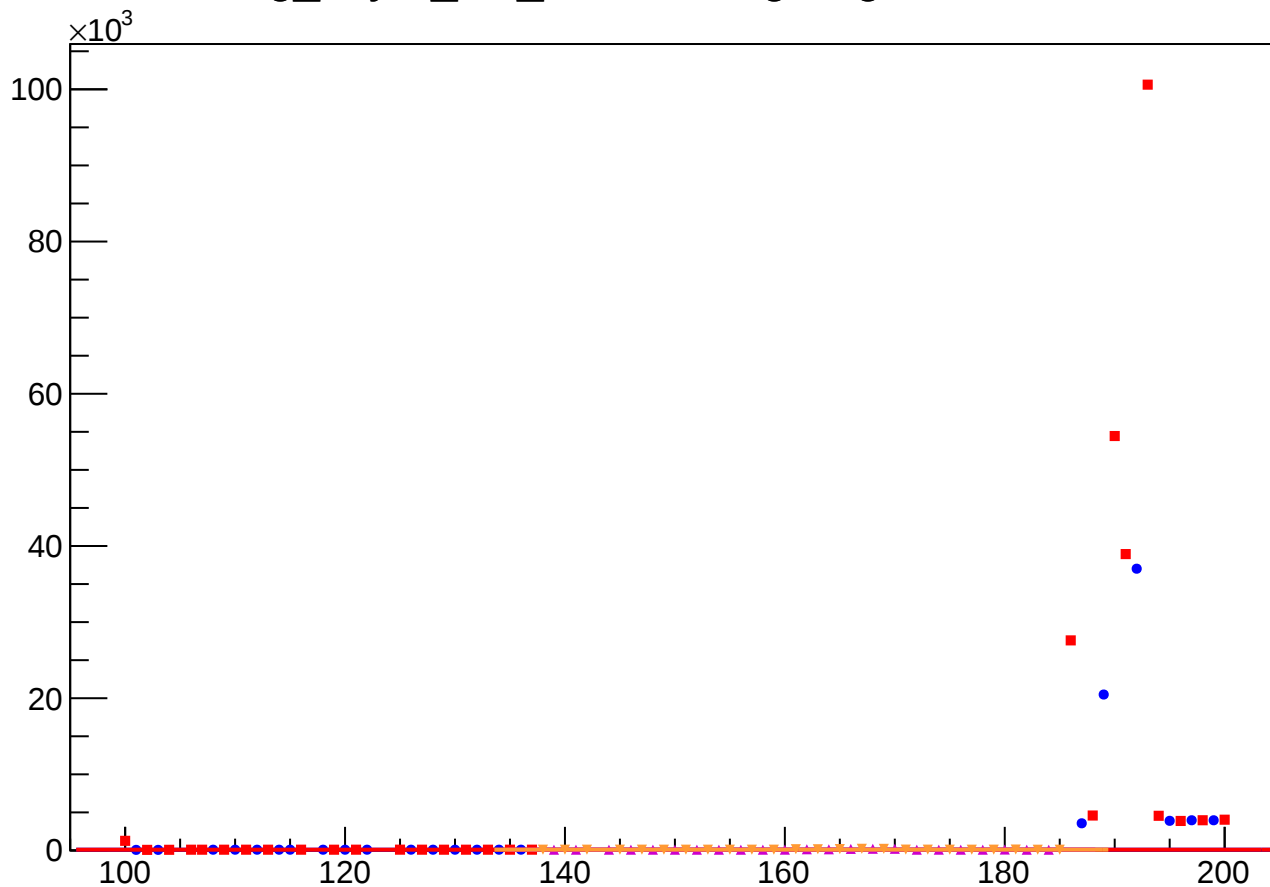
Right: 0.317 ± 25.992 $\chi^2/\text{NDF}: 41.5/48$

In: 15.949 ± 21.414 $\chi^2/\text{NDF}: 60.8/44$

Out: 8.758 ± 21.366 $\chi^2/\text{NDF}: 53.4/50$

All: 12.345 ± 15.125 $\chi^2/\text{NDF}: 114.2/95$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.963+/-0.026 χ^2/NDF : 6664104.6/21

Left Out: 108.059+/-0.019 χ^2/NDF : 1434979.3/23

Right Out: 97.510+/-0.026 χ^2/NDF : 8335737.2/26

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

Left: 107.867+/-0.013 χ^2/NDF : 2926230.6/46

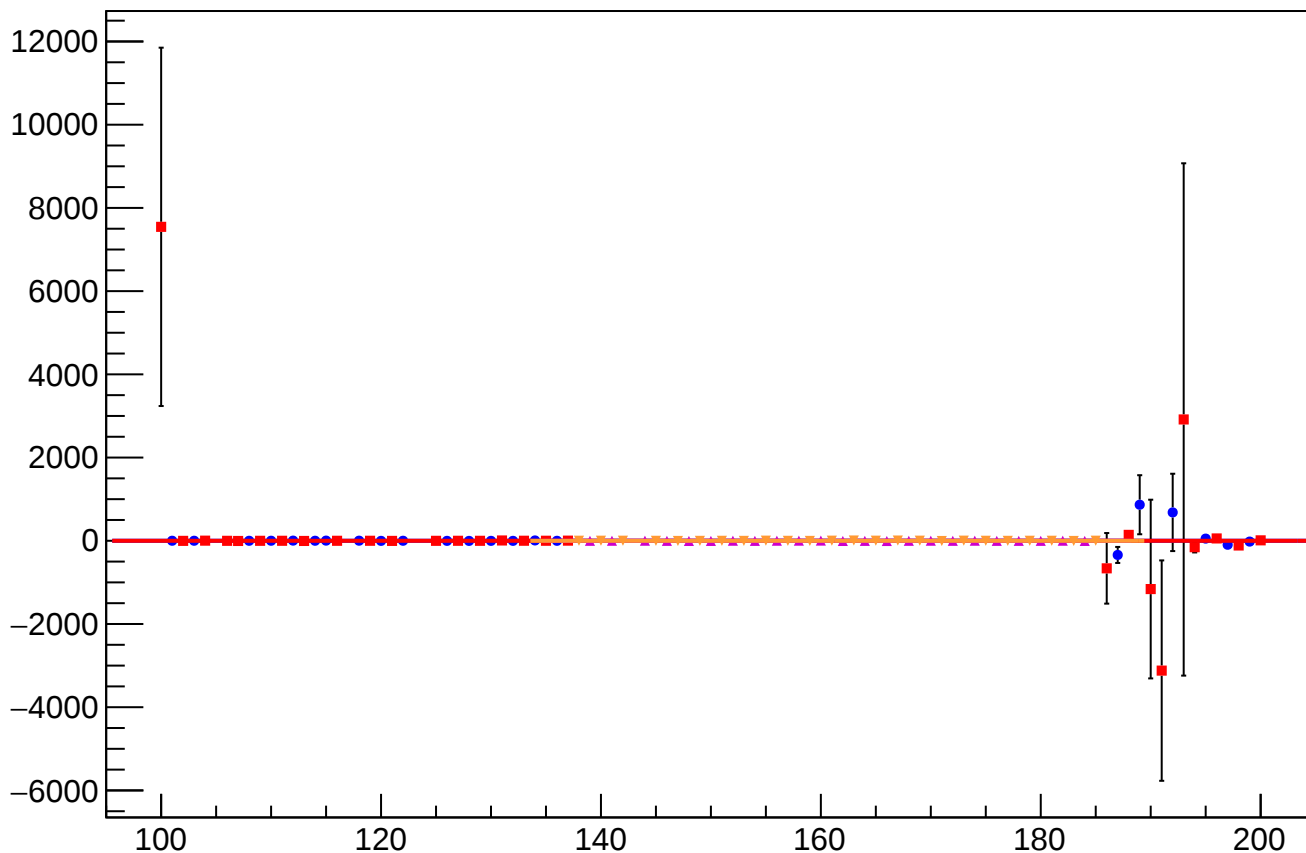
Right: 96.237+/-0.018 χ^2/NDF : 15004640.6/48

In: 103.361+/-0.015 χ^2/NDF : 8313046.2/44

Out: 104.494+/-0.015 χ^2/NDF : 9879821.7/50

All: 103.929+/-0.011 χ^2/NDF : 18195670.8/95

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.384+/-0.617 χ^2/NDF : 17.6/21

Left Out: -0.534+/-0.475 χ^2/NDF : 30.5/23

Right Out: -0.346+/-0.644 χ^2/NDF : 29.4/26

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

Left: -0.306+/-0.339 χ^2/NDF : 56.0/46

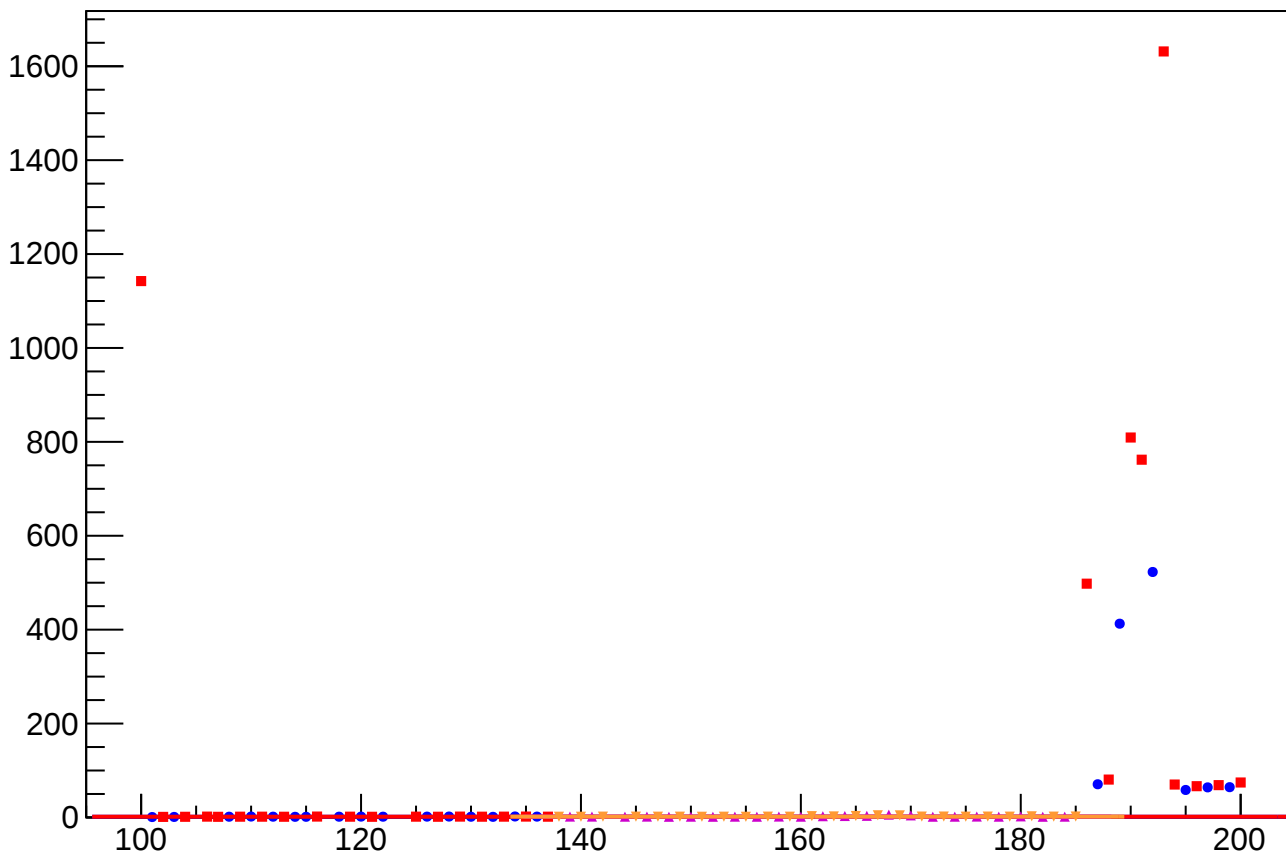
Right: 0.034+/-0.445 χ^2/NDF : 47.7/48

In: 0.105+/-0.381 χ^2/NDF : 42.9/44

Out: -0.468+/-0.382 χ^2/NDF : 60.0/50

All: -0.181+/-0.270 χ^2/NDF : 104.0/95

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.433+/-0.000 χ^2/NDF : 6195309.0/21

Left Out: 1.771+/-0.000 χ^2/NDF :1599621.6/23

Right Out: 1.573+/-0.000 χ^2/NDF : 7439400.3/26

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

Left: 1.787+/-0.000 χ^2/NDF : 3525124.6/46

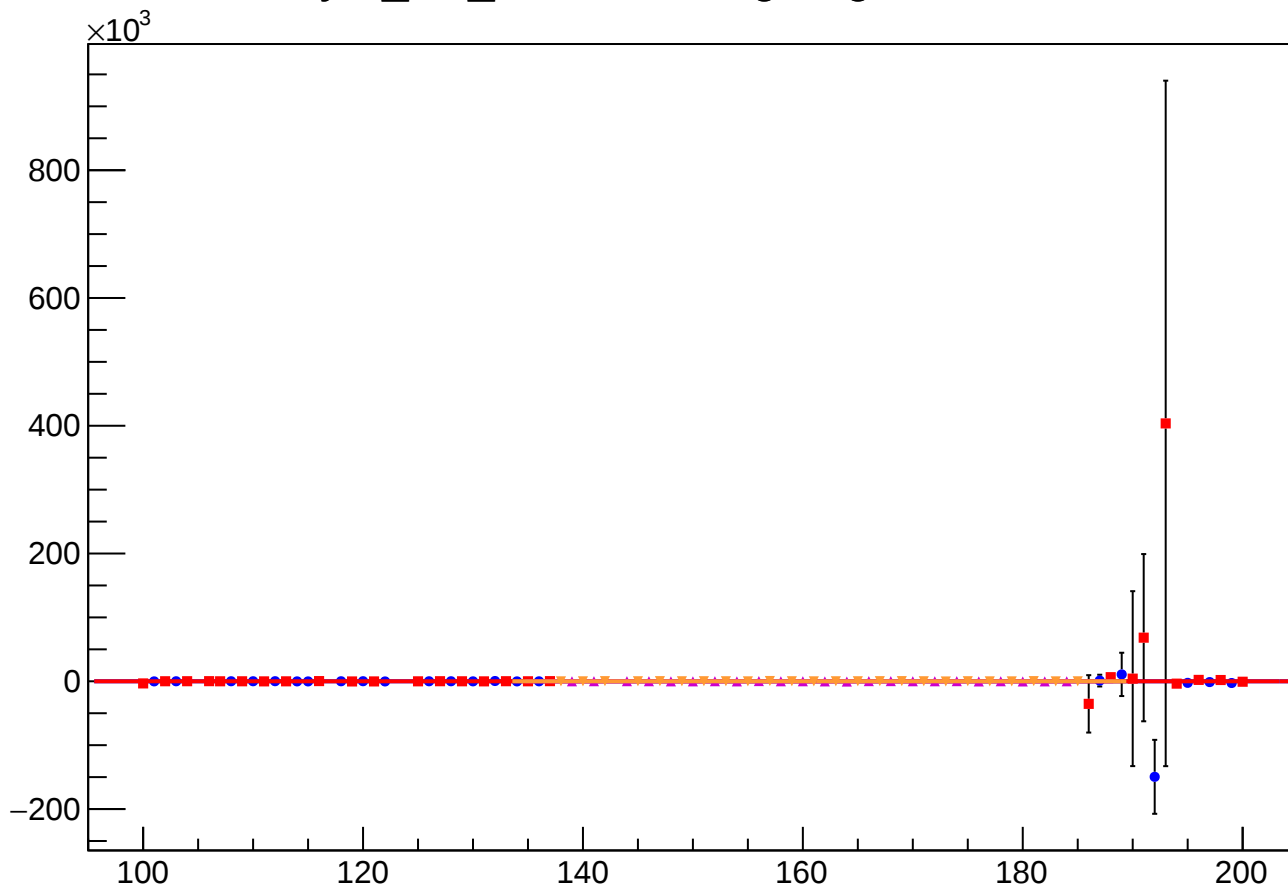
Right: 1.500+/-0.000 χ^2/NDF : 13683348.8/48

In: 1.662+/-0.000 χ^2/NDF :8558849.1/44

Out: 1.701+/-0.000 χ^2/NDF :9162460.1/50

All: 1.681+/-0.000 χ^2/NDF : 17732018.3/95

asym_dsl_mean vs Slug, Sign Corrected



Right In: -0.965 ± 36.777 χ^2/NDF : 24.3/21

Left Out: 12.948 ± 26.268 χ^2/NDF : 35.7/23

Right Out: 1.656 ± 36.761 χ^2/NDF : 16.9/26

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

Left: 19.110 ± 18.604 χ^2/NDF : 71.6/46

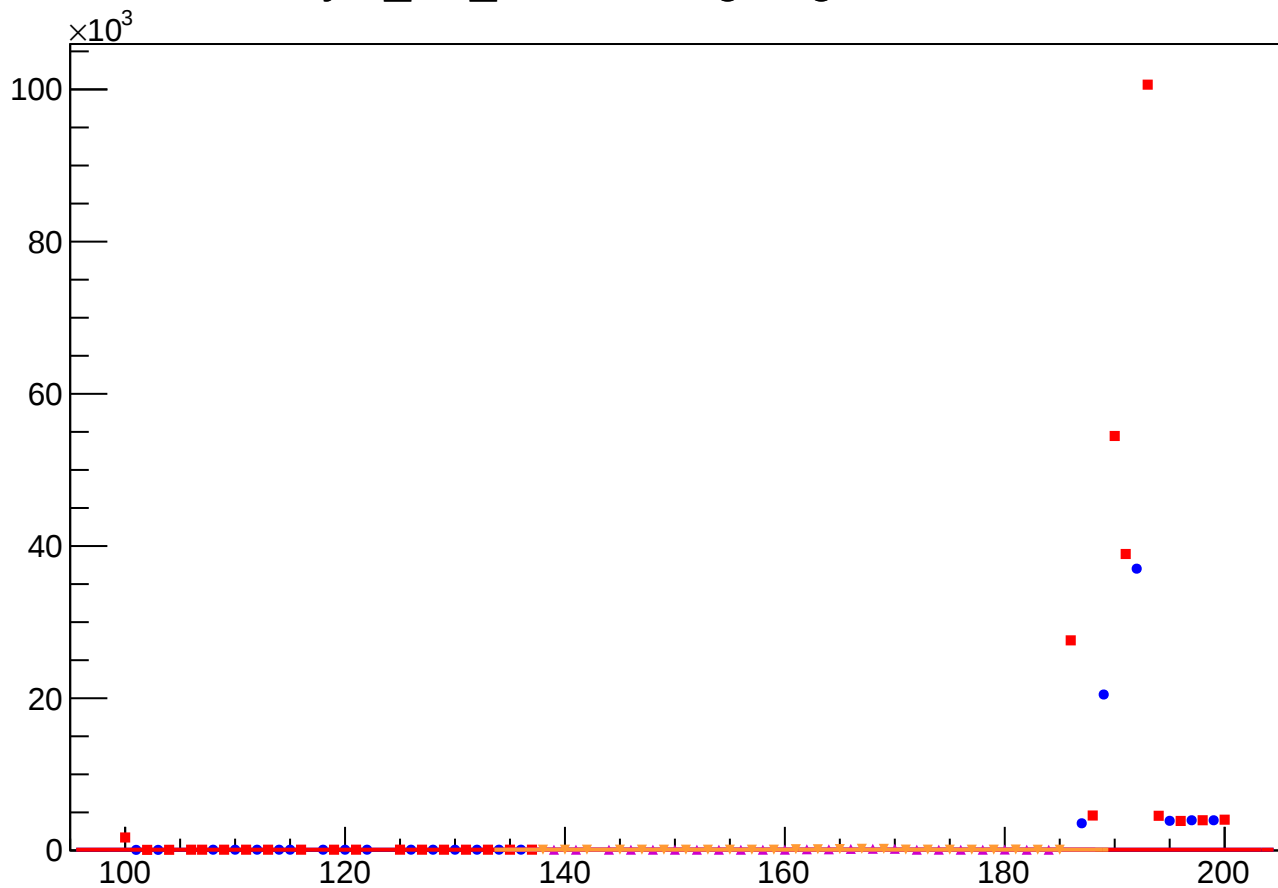
Right: 0.346 ± 25.999 χ^2/NDF : 41.2/48

In: 16.398 ± 21.420 χ^2/NDF : 60.3/44

Out: 9.131 ± 21.372 χ^2/NDF : 52.7/50

All: 12.756 ± 15.129 χ^2/NDF : 113.1/95

asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.988 $\pm$ 0.026 χ^2 /NDF: 6664100.5/21

Left Out: 108.090 $\pm$ 0.019 χ^2 /NDF: 1436368.7/23

Right Out: 97.519 $\pm$ 0.026 χ^2 /NDF: 8340969.3/26

Left In: 107.703 $\pm$ 0.019 χ^2 /NDF: 1492338.5/22

Left: 107.897 $\pm$ 0.013 χ^2 /NDF: 2928923.7/46

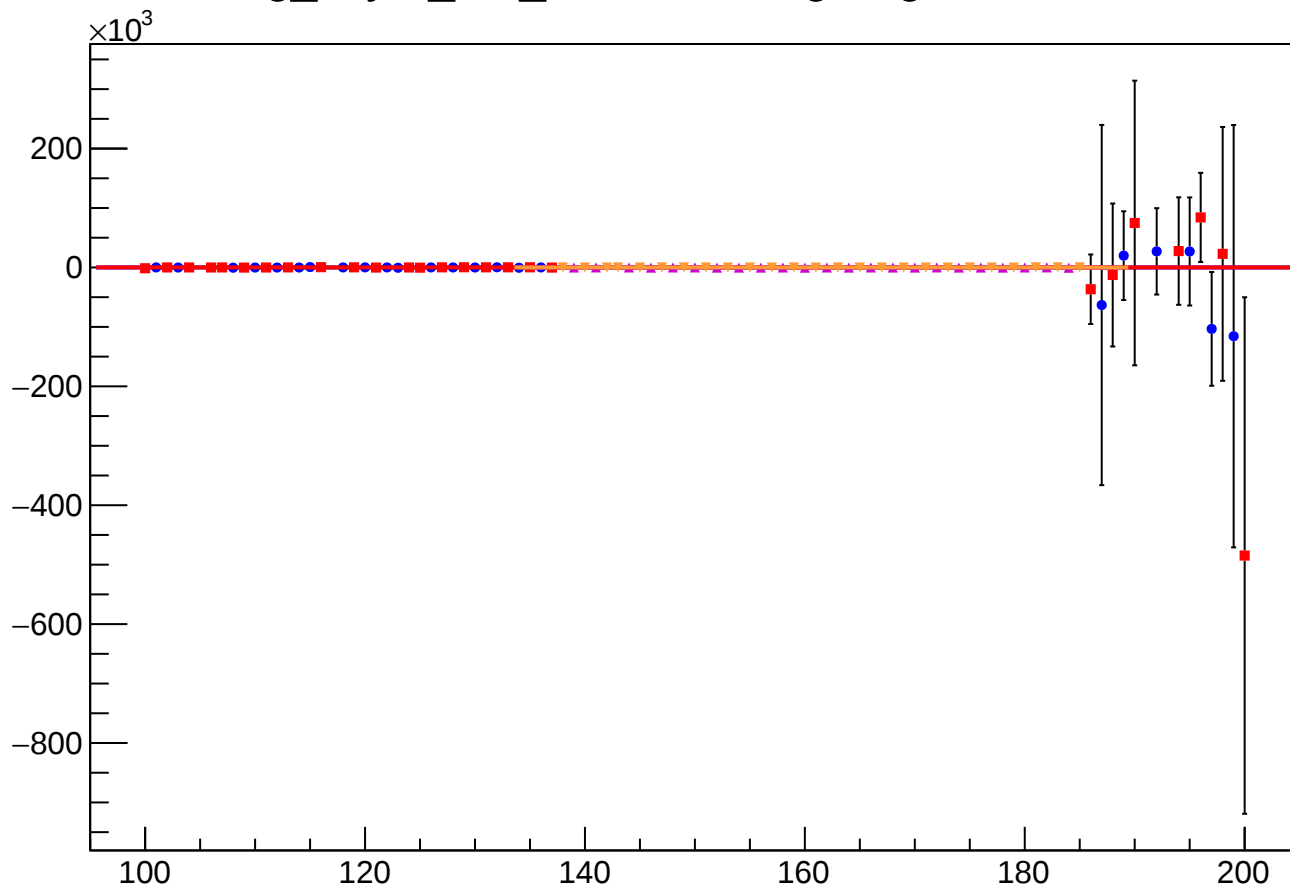
Right: 96.254 $\pm$ 0.018 χ^2 /NDF: 15009808.2/48

In: 103.390 $\pm$ 0.015 χ^2 /NDF: 8314414.6/44

Out: 104.517 $\pm$ 0.015 χ^2 /NDF: 9886829.7/50

All: 103.955 $\pm$ 0.011 χ^2 /NDF: 18204020.9/95

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.799 ± 46.841 χ^2/NDF : 16.0/22

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

Right Out: 53.398 ± 47.775 χ^2/NDF : 18.5/25

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

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

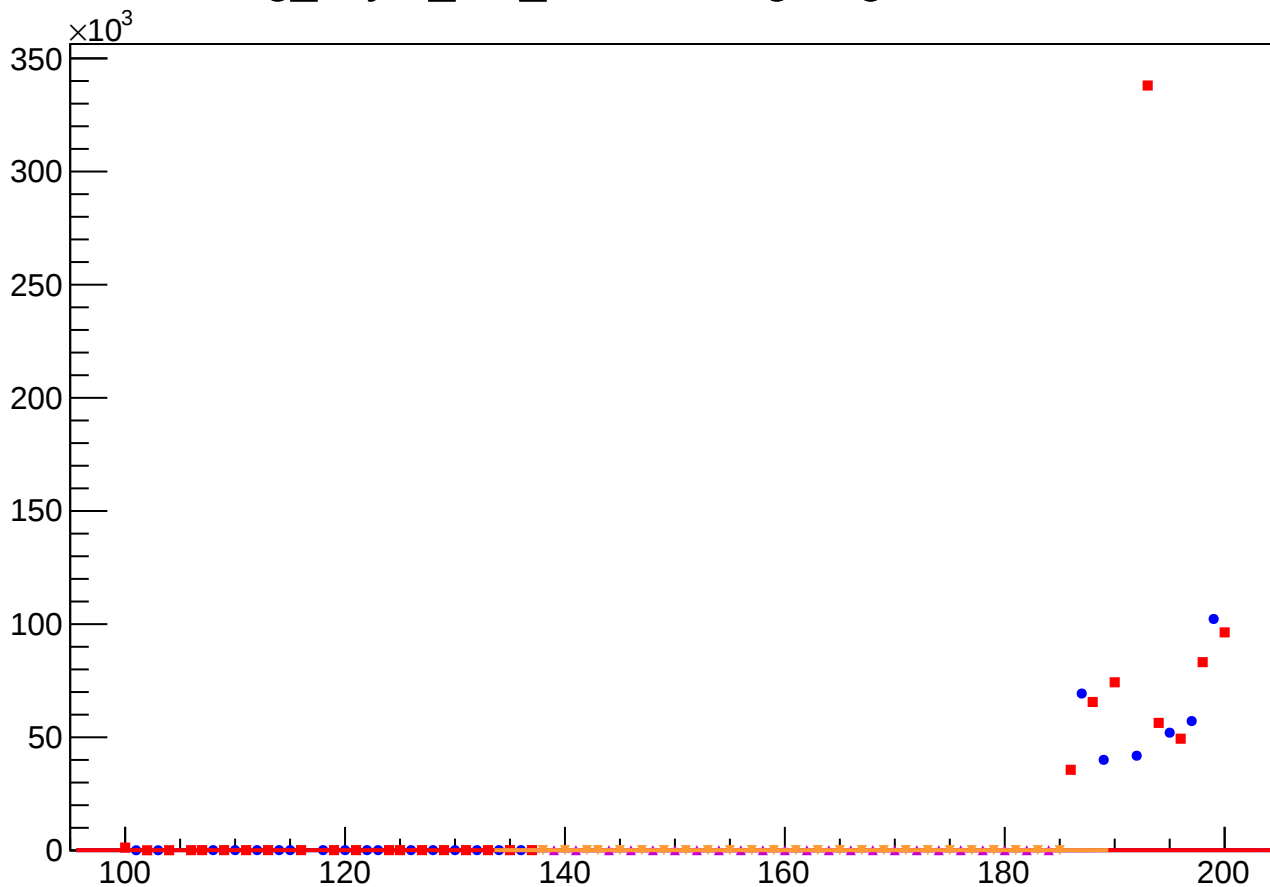
Right: 12.508 ± 33.447 χ^2/NDF : 36.0/48

In: -52.582 ± 26.947 χ^2/NDF : 35.8/45

Out: 7.737 ± 26.623 χ^2/NDF : 31.8/50

All: -22.058 ± 18.939 χ^2/NDF : 70.2/96

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.833 $\pm$ 0.033 χ^2 /NDF: 3971331.8/22

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

Right Out: 124.810 $\pm$ 0.034 χ^2 /NDF: 4628916.5/26

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

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

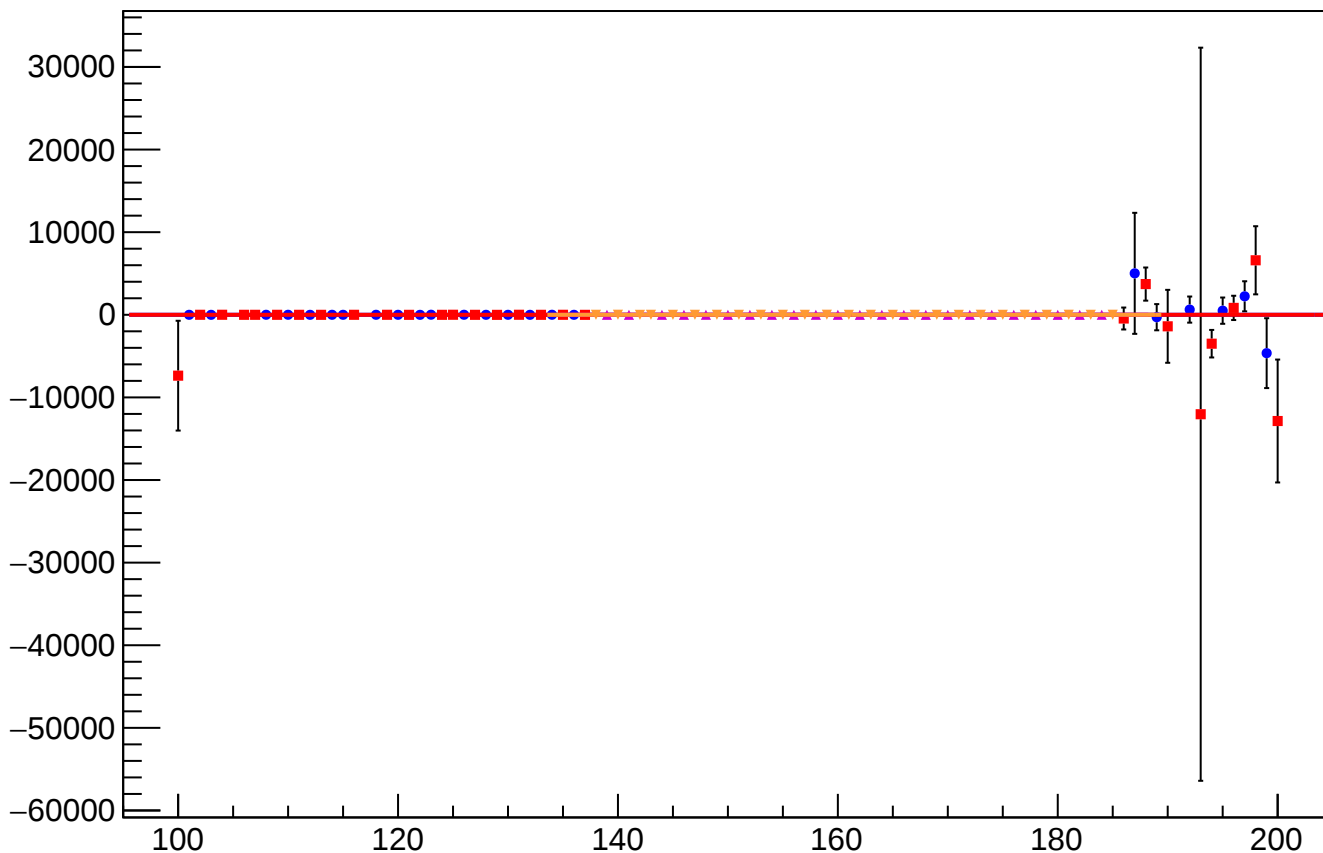
Right: 121.253 $\pm$ 0.024 χ^2 /NDF: 8621994.3/49

In: 131.195 $\pm$ 0.019 χ^2 /NDF:4215042.4/45

Out: 133.805 $\pm$ 0.019 χ^2 /NDF:4732198.5/51

All: 132.516 $\pm$ 0.013 χ^2 /NDF: 8956735.4/97

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 15.7/22

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

Right Out: -0.638 ± 0.852 χ^2/NDF : 28.7/26

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

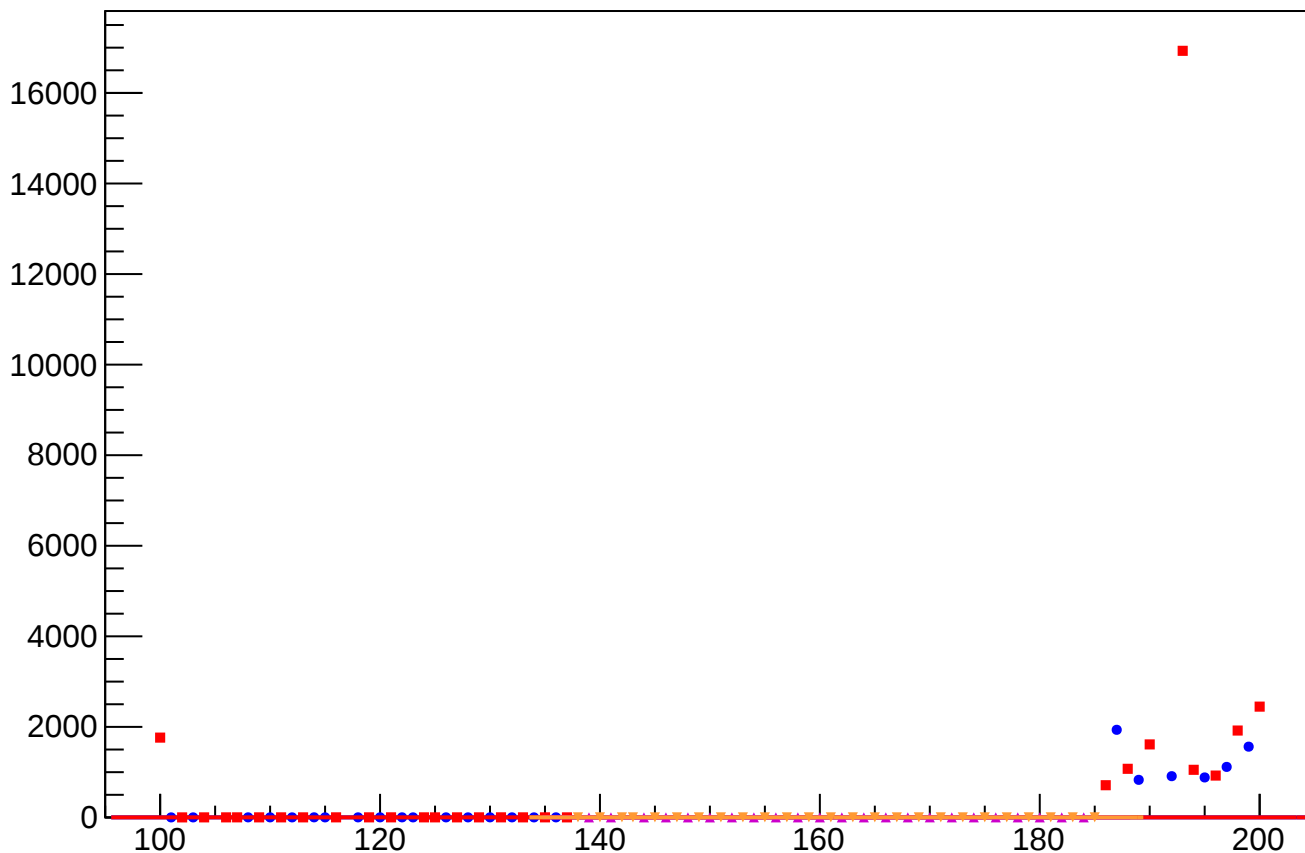
Right: -0.680 ± 0.587 χ^2/NDF : 44.4/49

In: -0.051 ± 0.471 χ^2/NDF : 37.4/45

Out: 0.139 ± 0.475 χ^2/NDF : 58.9/51

All: 0.043 ± 0.334 χ^2/NDF : 96.4/97

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.866+/-0.001 χ^2/NDF : 3475716.2/22

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

Right Out: 2.065+/-0.001 χ^2/NDF : 4461941.6/26

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

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

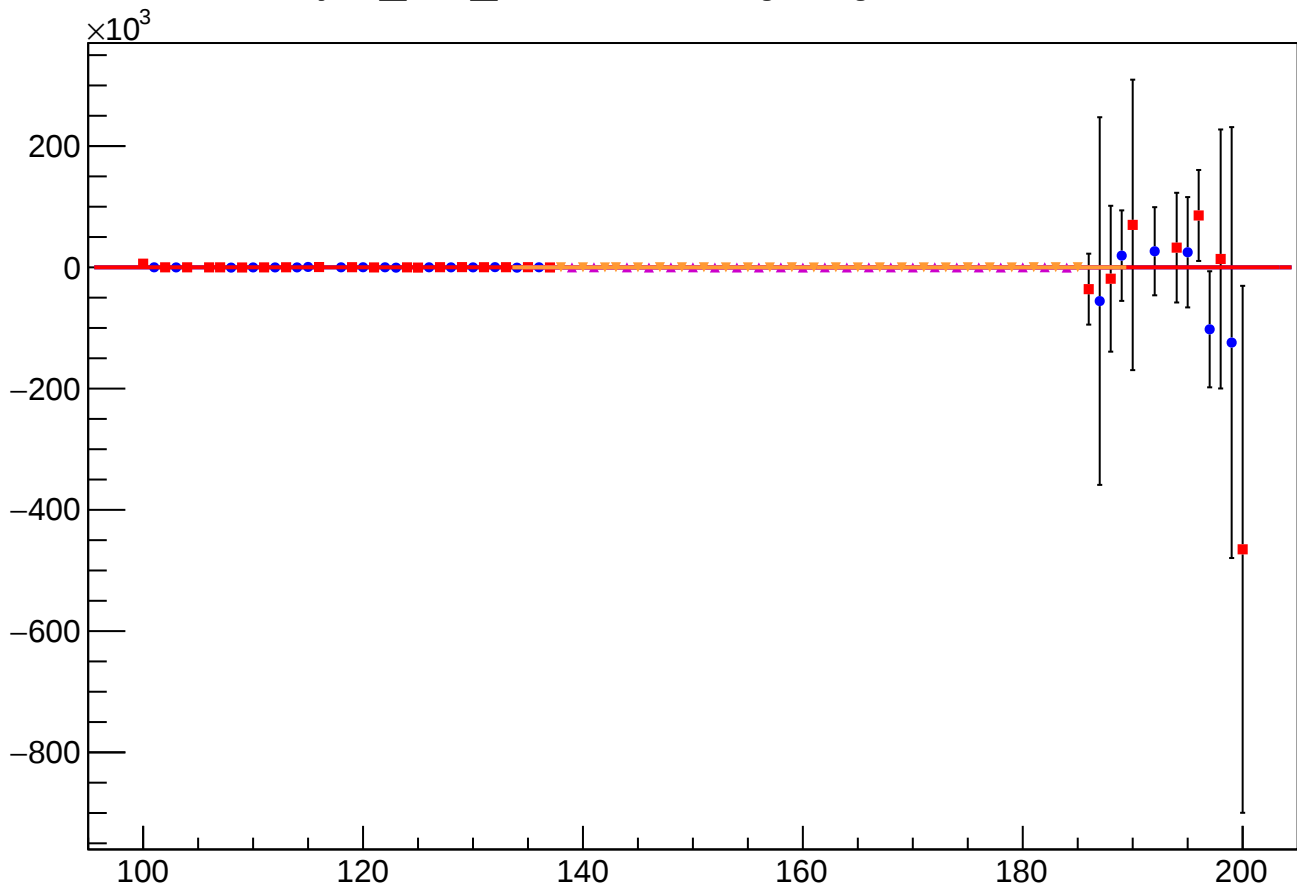
Right: 1.961+/-0.000 χ^2/NDF : 7994678.9/49

In: 2.082+/-0.000 χ^2/NDF : 4201848.4/45

Out: 2.201+/-0.000 χ^2/NDF : 4910649.9/51

All: 2.141+/-0.000 χ^2/NDF : 9174974.2/97

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.062 ± 46.854 χ^2/NDF : 16.1/22

Left Out: -13.383 ± 32.072 χ^2/NDF : 11.8/24

Right Out: 54.300 ± 47.789 χ^2/NDF : 19.1/25

Left In: -65.231 ± 32.953 χ^2/NDF : 19.4/22

Left: -38.605 ± 22.983 χ^2/NDF : 32.4/47

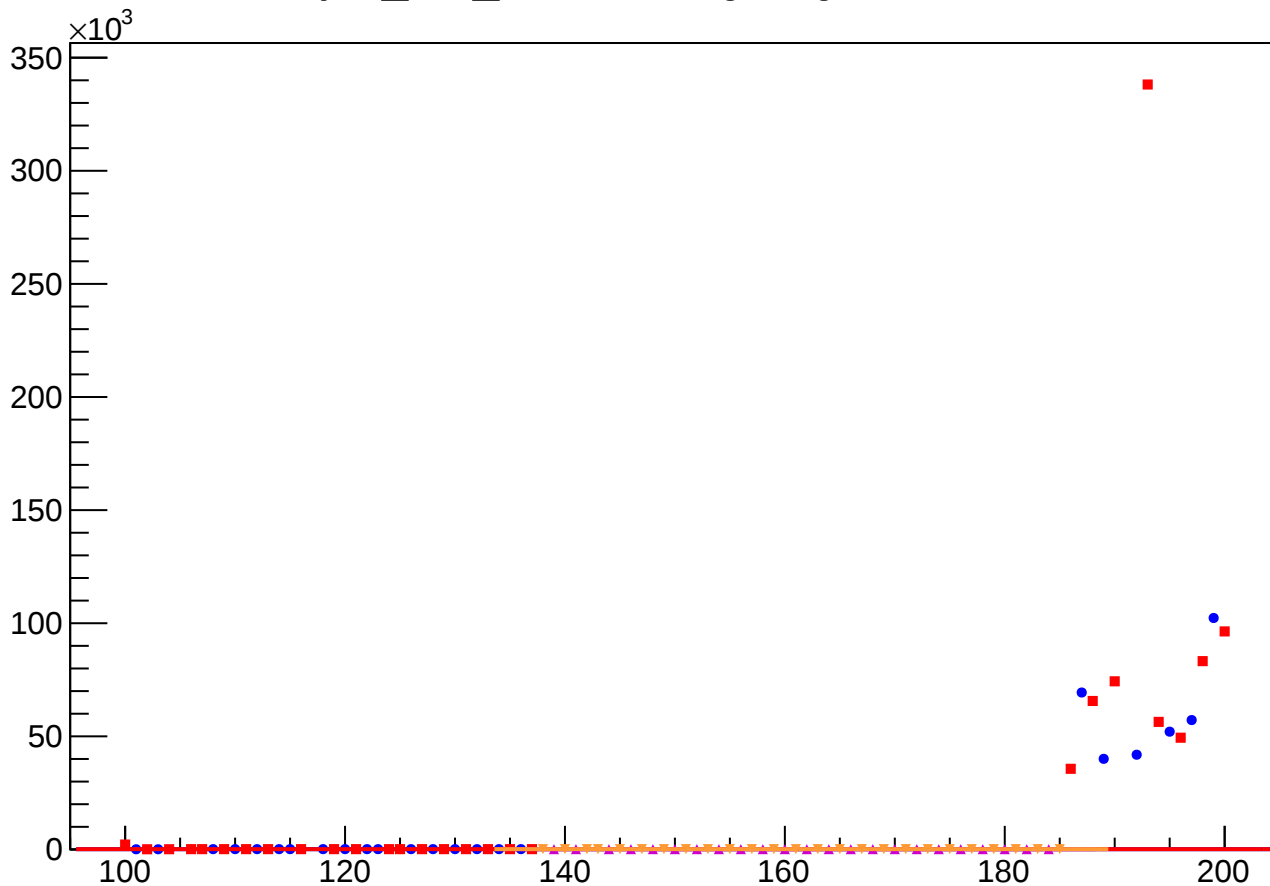
Right: 13.835 ± 33.456 χ^2/NDF : 36.6/48

In: -51.937 ± 26.954 χ^2/NDF : 35.9/45

Out: 7.635 ± 26.631 χ^2/NDF : 32.3/50

All: -21.792 ± 18.944 χ^2/NDF : 70.7/96

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.865 $\pm$ 0.033 χ^2 /NDF: 3971410.5/22

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

Right Out: 124.799 $\pm$ 0.034 χ^2 /NDF: 4639552.7/26

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

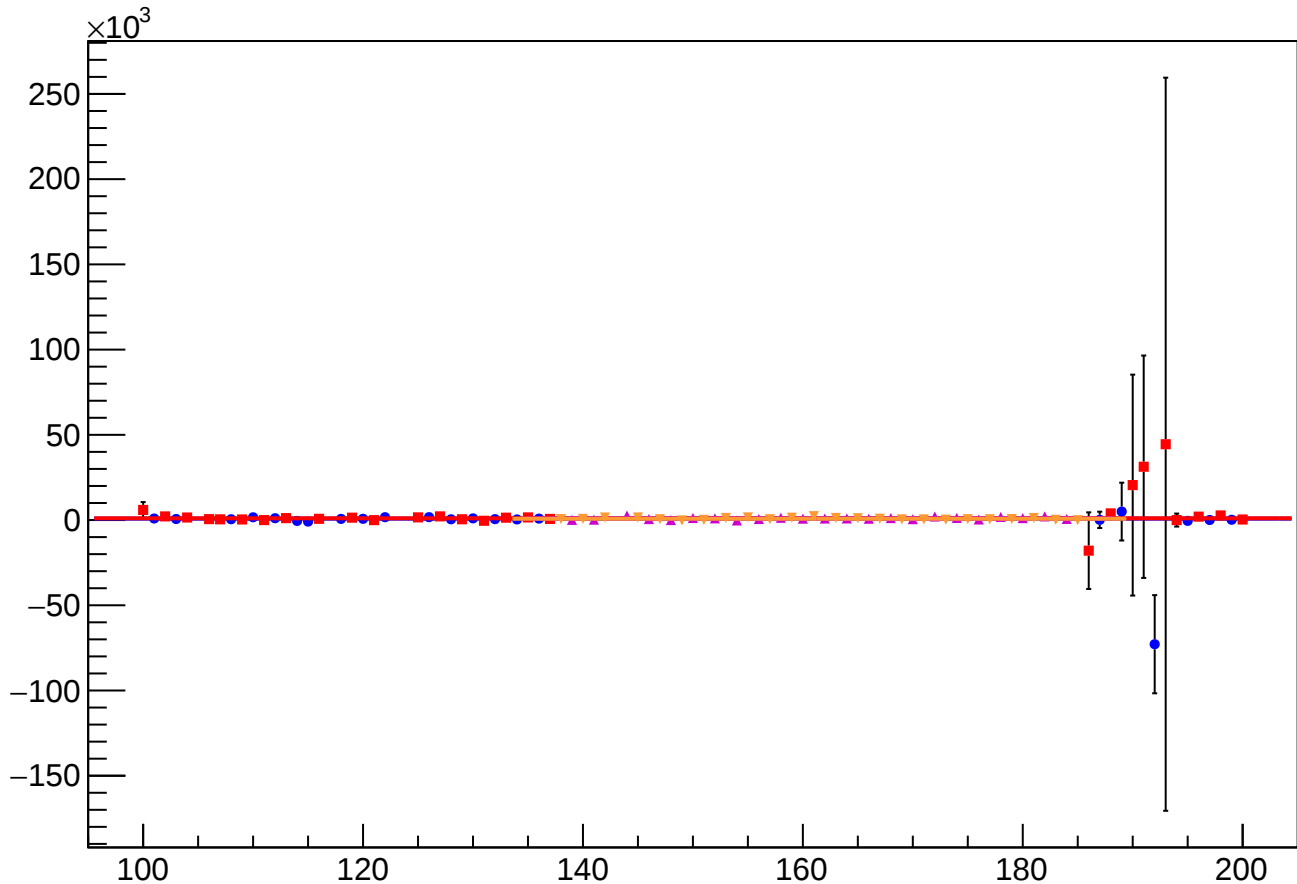
Right: 121.263 $\pm$ 0.024 χ^2 /NDF: 8632430.7/49

In: 131.231 $\pm$ 0.019 χ^2 /NDF:4215156.6/45

Out: 133.828 $\pm$ 0.019 χ^2 /NDF:4743556.4/51

All: 132.545 $\pm$ 0.013 χ^2 /NDF: 8968107.0/97

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 816.949 $\pm$ 213.507 χ^2/NDF : 12.4/21

Left Out: 784.371 $\pm$ 134.054 χ^2/NDF : 19.2/23

Right Out: 1026.459 $\pm$ 209.621 χ^2/NDF : 17.1/26

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

Left: 878.766 $\pm$ 95.099 χ^2/NDF : 47.6/46

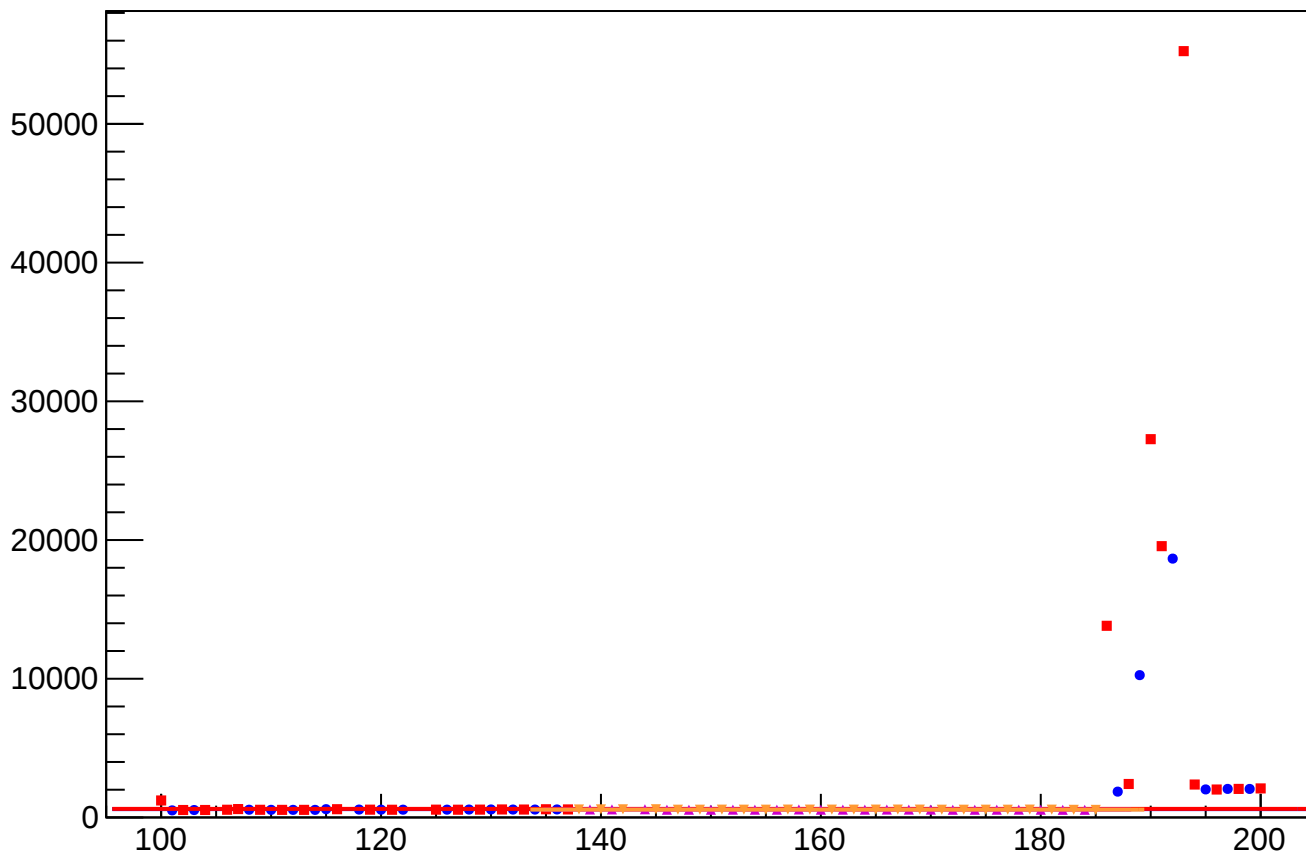
Right: 923.628 $\pm$ 149.579 χ^2/NDF : 30.0/48

In: 929.464 $\pm$ 114.063 χ^2/NDF : 40.2/44

Out: 854.640 $\pm$ 112.935 χ^2/NDF : 37.2/50

All: 891.680 $\pm$ 80.253 χ^2/NDF : 77.7/95

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 601.805+/-0.151 χ^2/NDF : 4125950.1/21

Left Out: 564.143+/-0.095 χ^2/NDF : 9594.1/23

Right Out: 617.466+/-0.148 χ^2/NDF : 5132014.5/26

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

Left: 564.262+/-0.067 χ^2/NDF : 18806.8/46

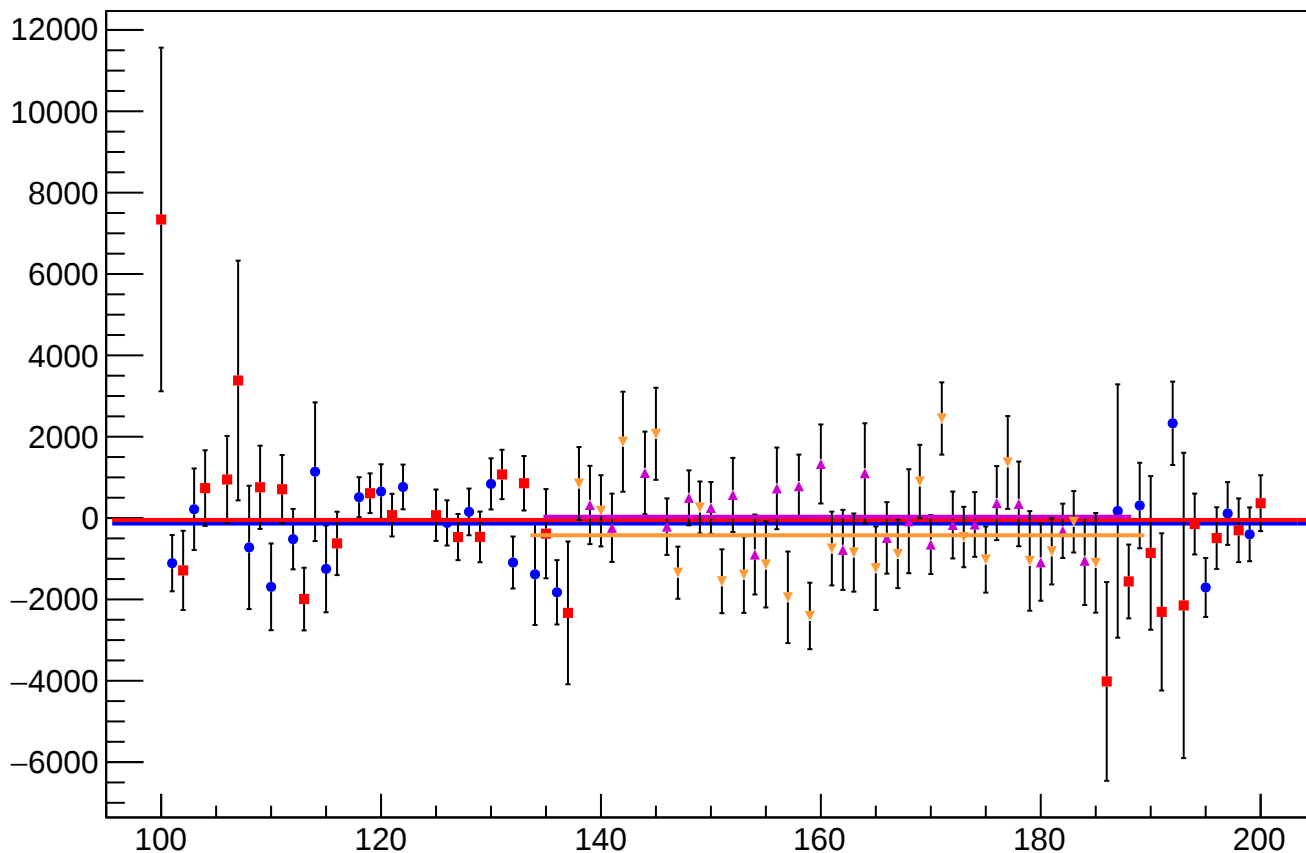
Right: 609.779+/-0.106 χ^2/NDF : 9263443.5/48

In: 575.064+/-0.081 χ^2/NDF : 4179065.4/44

Out: 579.621+/-0.080 χ^2/NDF : 5233458.6/50

All: 577.365+/-0.057 χ^2/NDF : 9414136.2/95

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -134.865+/-161.314 χ^2/NDF : 33.5/21

Left Out: -422.681+/-180.610 χ^2/NDF : 43.2/23

Right Out: -45.904+/-157.371 χ^2/NDF : 34.0/26

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

Left: -193.644+/-127.291 χ^2/NDF : 58.6/46

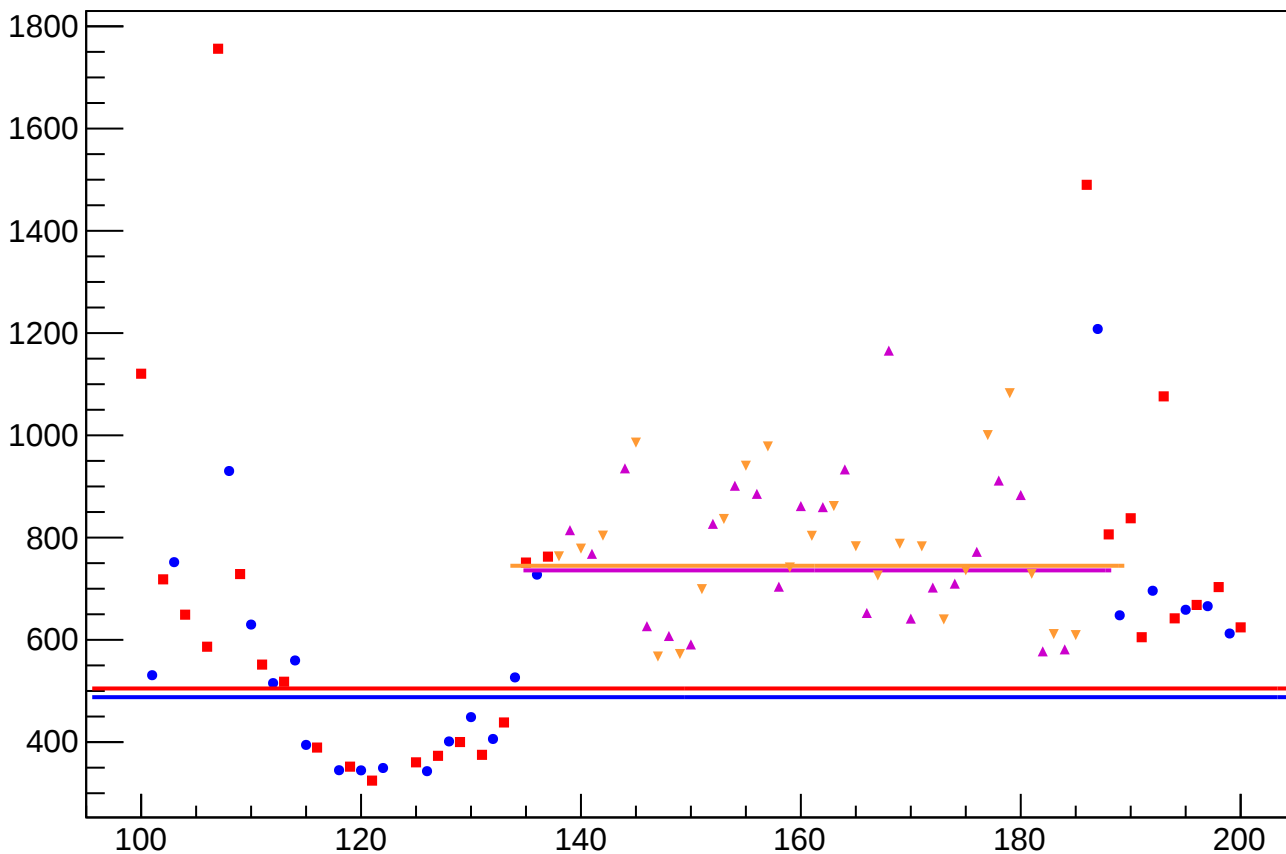
Right: -89.284+/-112.646 χ^2/NDF : 67.6/48

In: -60.096+/-119.961 χ^2/NDF : 46.2/44

Out: -208.508+/-118.649 χ^2/NDF : 79.6/50

All: -135.118+/-84.358 χ^2/NDF : 126.6/95

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 487.878+/-0.114 χ^2/NDF : 1692386.3/21

Left Out: 744.909+/-0.128 χ^2/NDF :1008847.7/23

Right Out: 504.889+/-0.111 χ^2/NDF : 2671984.2/26

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

Left: 740.350+/-0.090 χ^2/NDF : 2116785.5/46

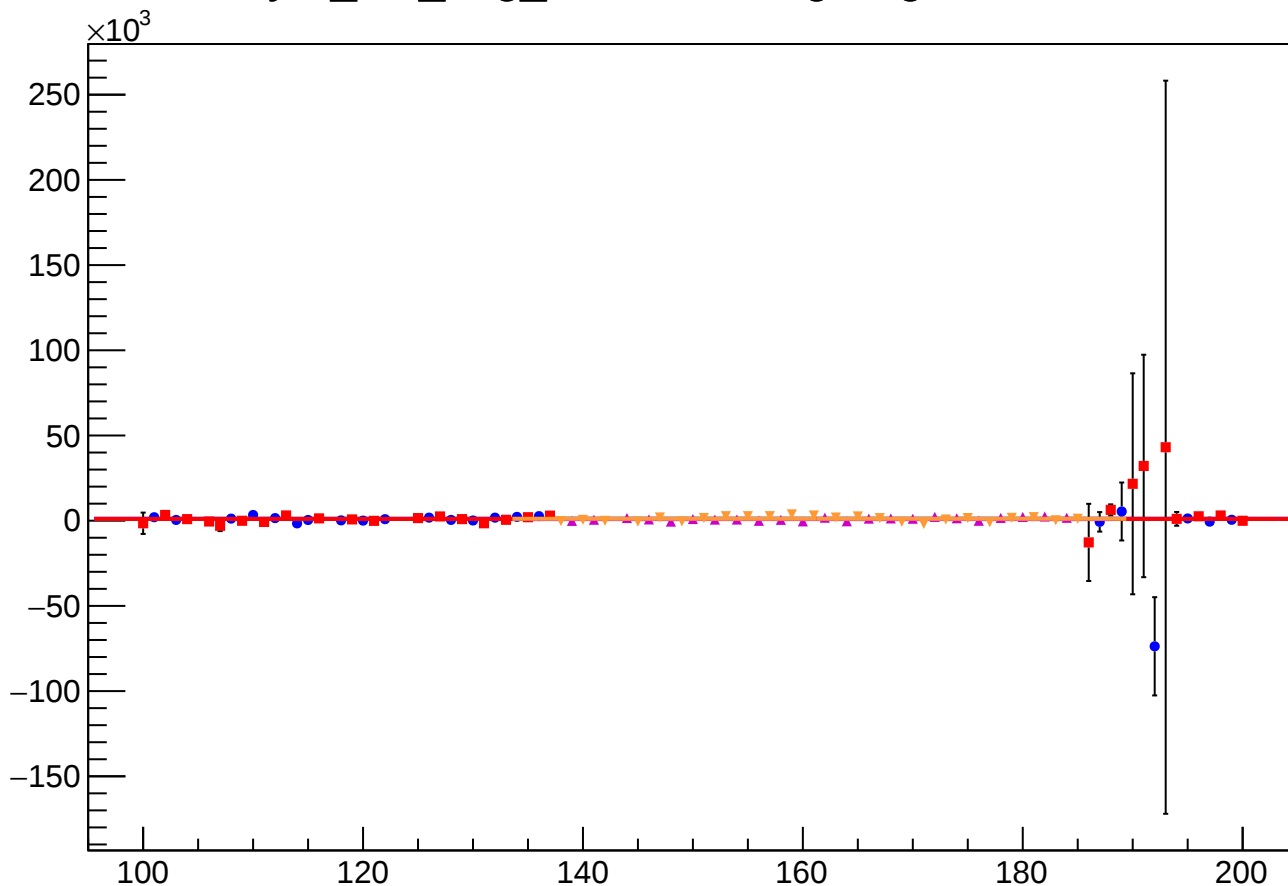
Right: 496.594+/-0.080 χ^2/NDF : 4375766.1/48

In: 598.717+/-0.085 χ^2/NDF :4910219.0/44

Out: 608.474+/-0.084 χ^2/NDF :5688641.4/50

All: 603.649+/-0.060 χ^2/NDF : 10605547.4/95

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1153.274 $\pm$ 289.026 χ^2 /NDF: 19.2/21

Left Out: 1137.936 $\pm$ 228.834 χ^2 /NDF: 38.9/23

Right Out: 1023.844 $\pm$ 285.956 χ^2 /NDF: 28.0/26

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

Left: 1039.600 $\pm$ 161.629 χ^2 /NDF: 54.0/46

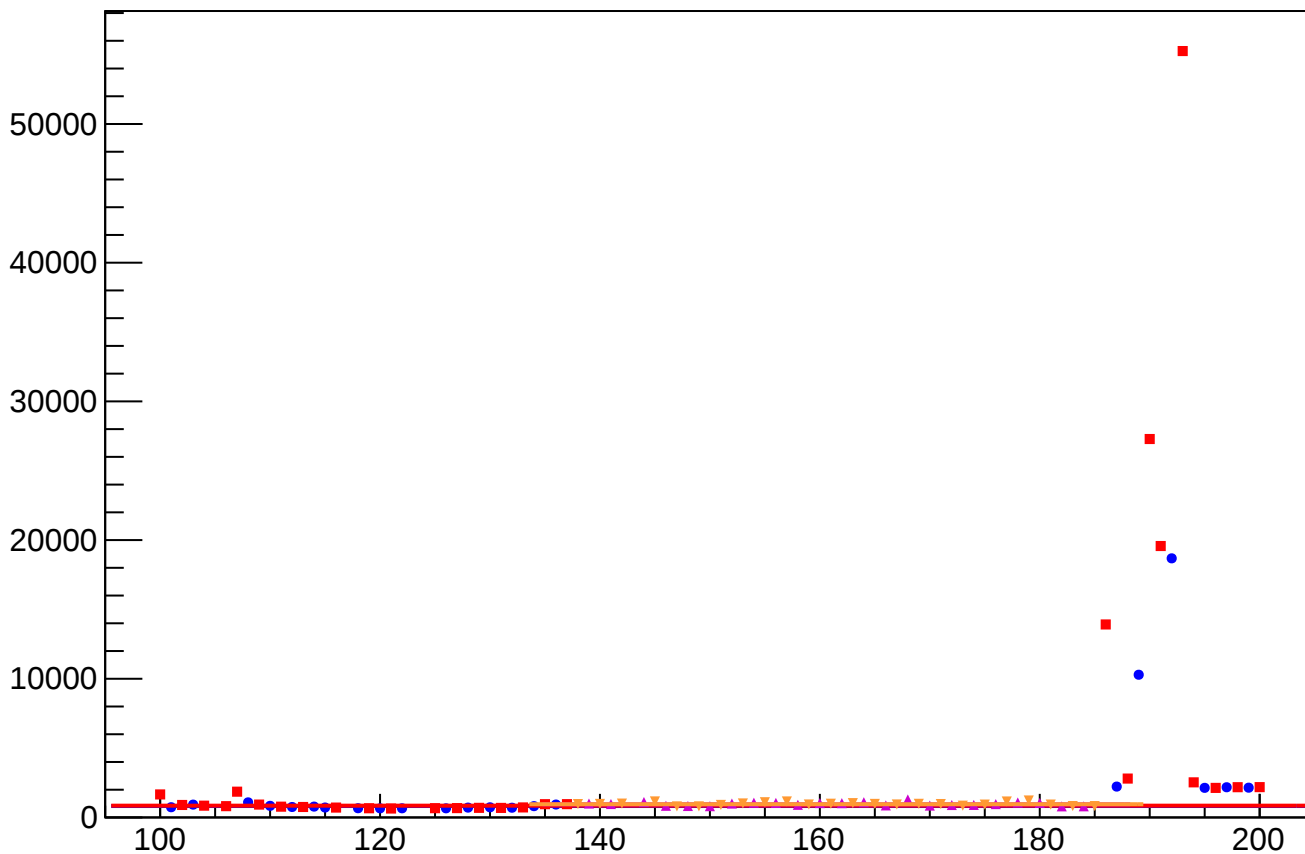
Right: 1087.868 $\pm$ 203.278 χ^2 /NDF: 47.3/48

In: 1023.001 $\pm$ 179.164 χ^2 /NDF: 34.3/44

Out: 1093.396 $\pm$ 178.668 χ^2 /NDF: 67.0/50

All: 1058.296 $\pm$ 126.512 χ^2 /NDF: 101.3/95

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 824.013+/-0.204 χ^2/NDF : 3742569.1/21

Left Out: 954.333+/-0.162 χ^2/NDF : 460147.5/23

Right Out: 849.767+/-0.202 χ^2/NDF : 4871469.9/26

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

Left: 950.444+/-0.114 χ^2/NDF : 962667.1/46

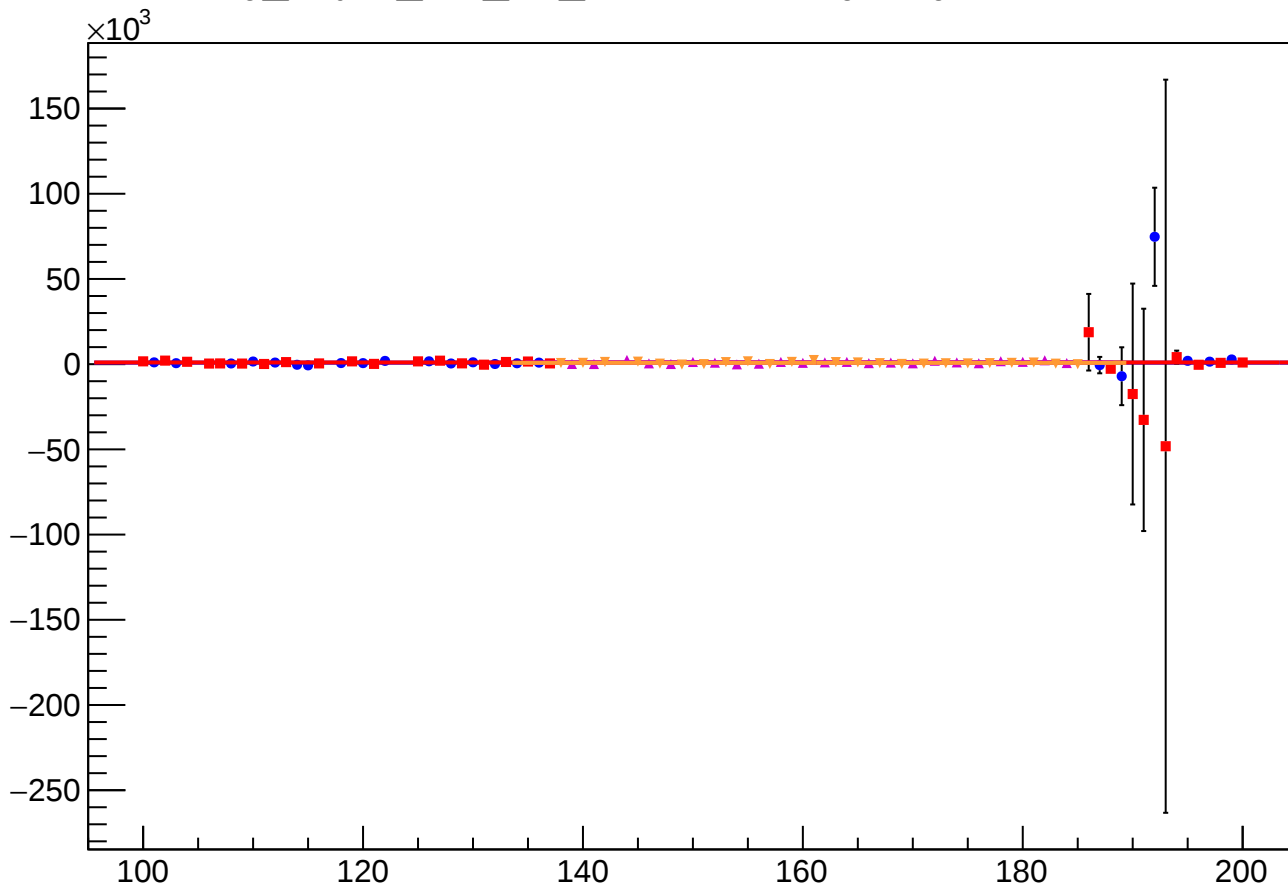
Right: 837.028+/-0.144 χ^2/NDF : 8622064.2/48

In: 899.478+/-0.127 χ^2/NDF : 4465374.1/44

Out: 913.512+/-0.126 χ^2/NDF : 5494647.1/50

All: 906.514+/-0.089 χ^2/NDF : 9966174.3/95

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 878.554 ± 213.356 χ^2/NDF : 14.0/21

Left Out: 757.642 ± 133.942 χ^2/NDF : 21.0/23

Right Out: 999.992 ± 204.845 χ^2/NDF : 16.1/26

Left In: 958.517 ± 134.824 χ^2/NDF : 26.8/22

Left: 857.420 ± 95.022 χ^2/NDF : 49.0/46

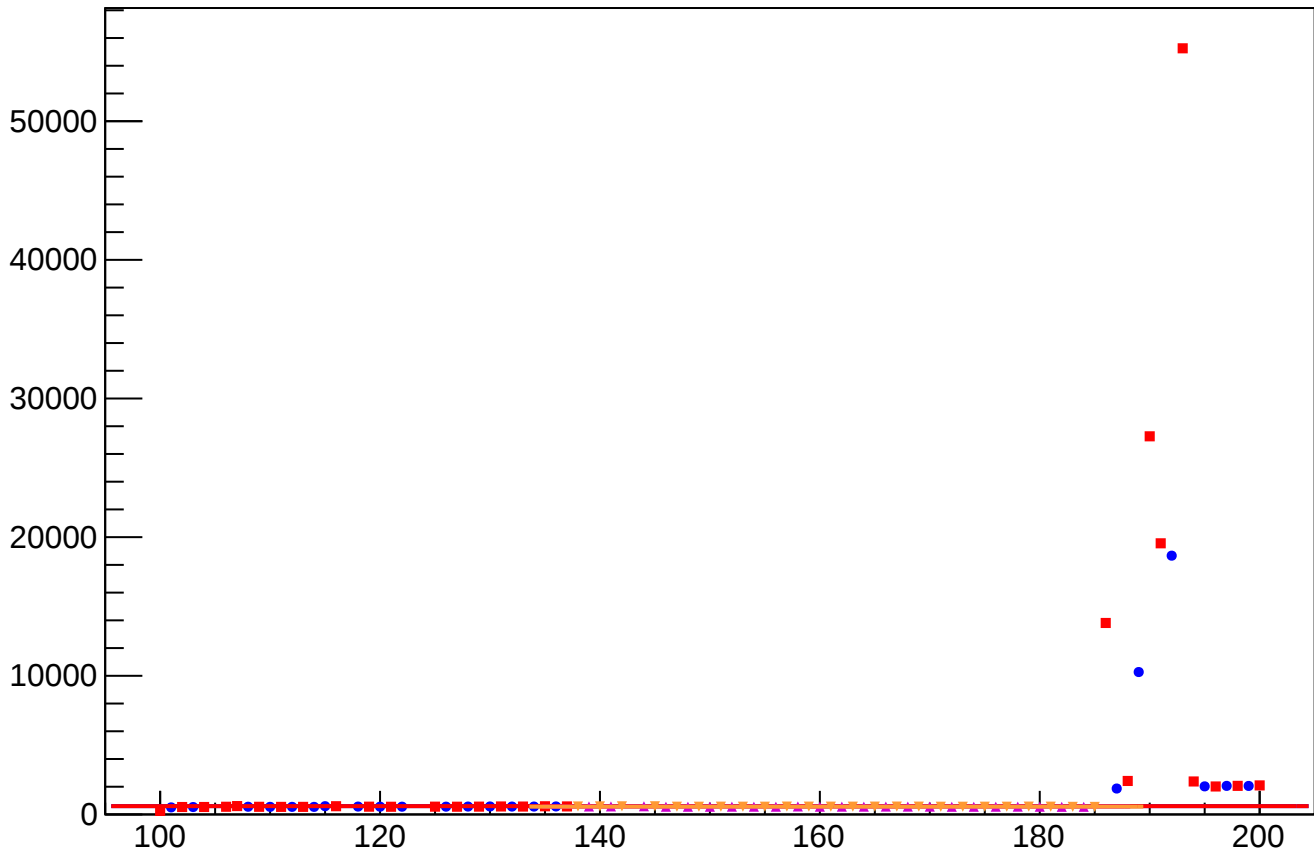
Right: 941.743 ± 147.765 χ^2/NDF : 30.3/48

In: 935.698 ± 113.975 χ^2/NDF : 41.0/44

Out: 830.225 ± 112.104 χ^2/NDF : 38.1/50

All: 882.089 ± 79.923 χ^2/NDF : 79.5/95

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 601.277 $\pm$ 0.151 χ^2 /NDF: 4131729.7/21

Left Out: 563.675 $\pm$ 0.095 χ^2 /NDF: 9542.9/23

Right Out: 599.170 $\pm$ 0.145 χ^2 /NDF: 5375313.8/26

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

Left: 563.803 $\pm$ 0.067 χ^2 /NDF: 18751.3/46

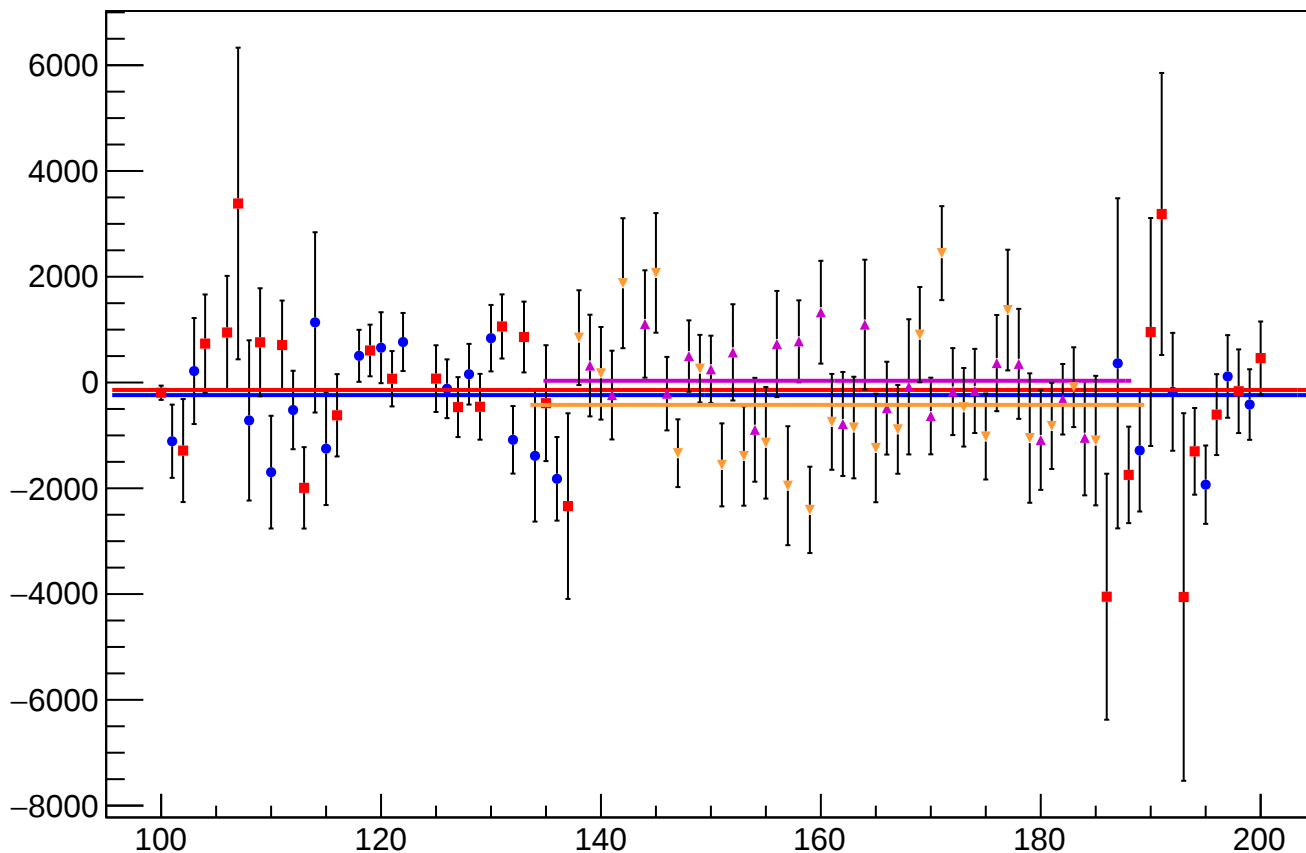
Right: 600.180 $\pm$ 0.104 χ^2 /NDF: 9507145.1/48

In: 574.591 $\pm$ 0.081 χ^2 /NDF: 4184719.1/44

Out: 574.305 $\pm$ 0.079 χ^2 /NDF: 5426921.9/50

All: 574.446 $\pm$ 0.057 χ^2 /NDF: 9611647.4/95

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -238.158 $\pm$ 162.238 χ^2/NDF : 29.3/21

Left Out: -422.324 $\pm$ 180.531 χ^2/NDF : 43.3/23

Right Out: -140.411 $\pm$ 102.771 χ^2/NDF : 36.0/26

Left In: 33.325 $\pm$ 179.355 χ^2/NDF : 12.1/22

Left: -193.010 $\pm$ 127.237 χ^2/NDF : 58.6/46

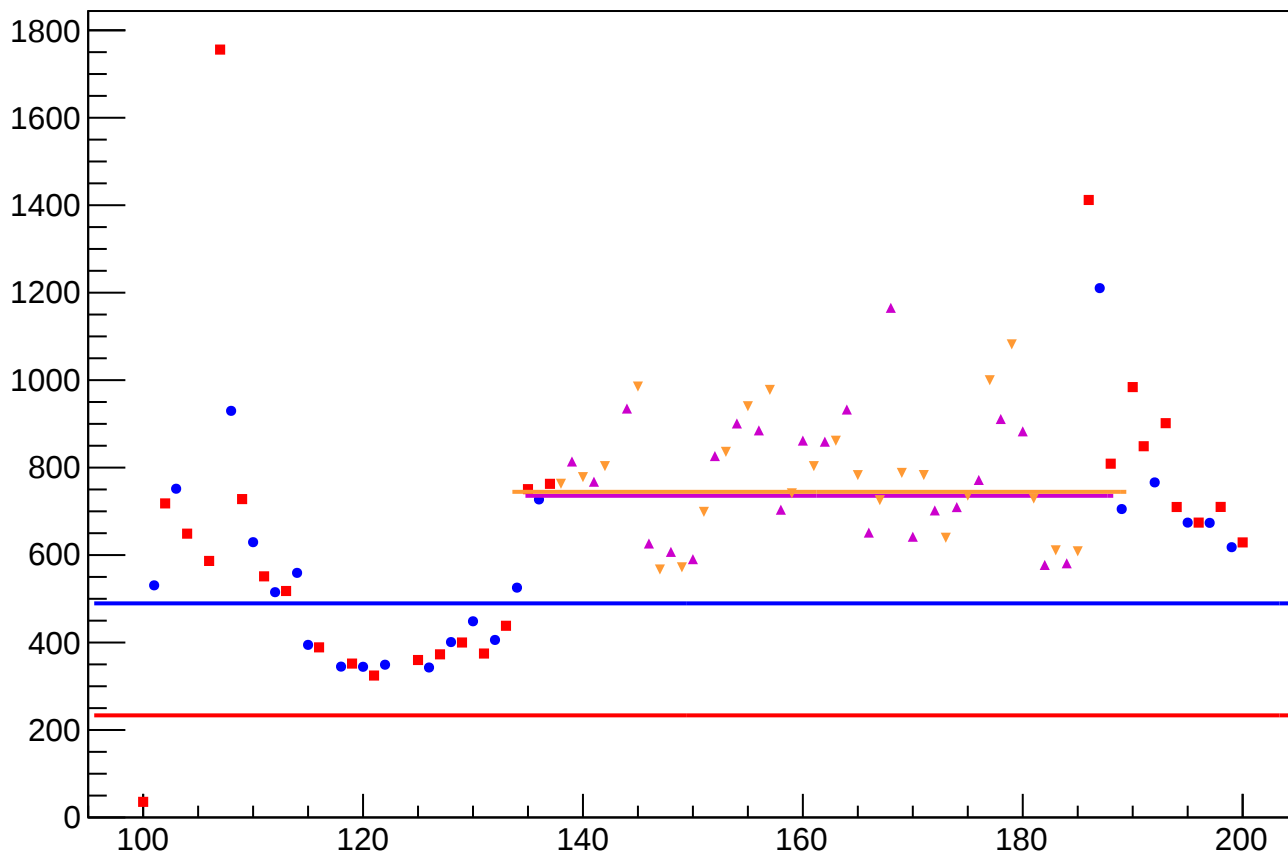
Right: -168.402 $\pm$ 86.818 χ^2/NDF : 65.5/48

In: -115.986 $\pm$ 120.317 χ^2/NDF : 42.7/44

Out: -209.409 $\pm$ 89.313 χ^2/NDF : 81.1/50

All: -176.219 $\pm$ 71.714 χ^2/NDF : 124.1/95

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 489.540 $\pm$ 0.115 χ^2 /NDF: 1787264.0/21

Left Out: 744.597 $\pm$ 0.128 χ^2 /NDF: 1009604.0/23

Right Out: 233.438 $\pm$ 0.073 χ^2 /NDF: 12948406.3/26

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

Left: 740.040 $\pm$ 0.090 χ^2 /NDF: 2117358.1/46

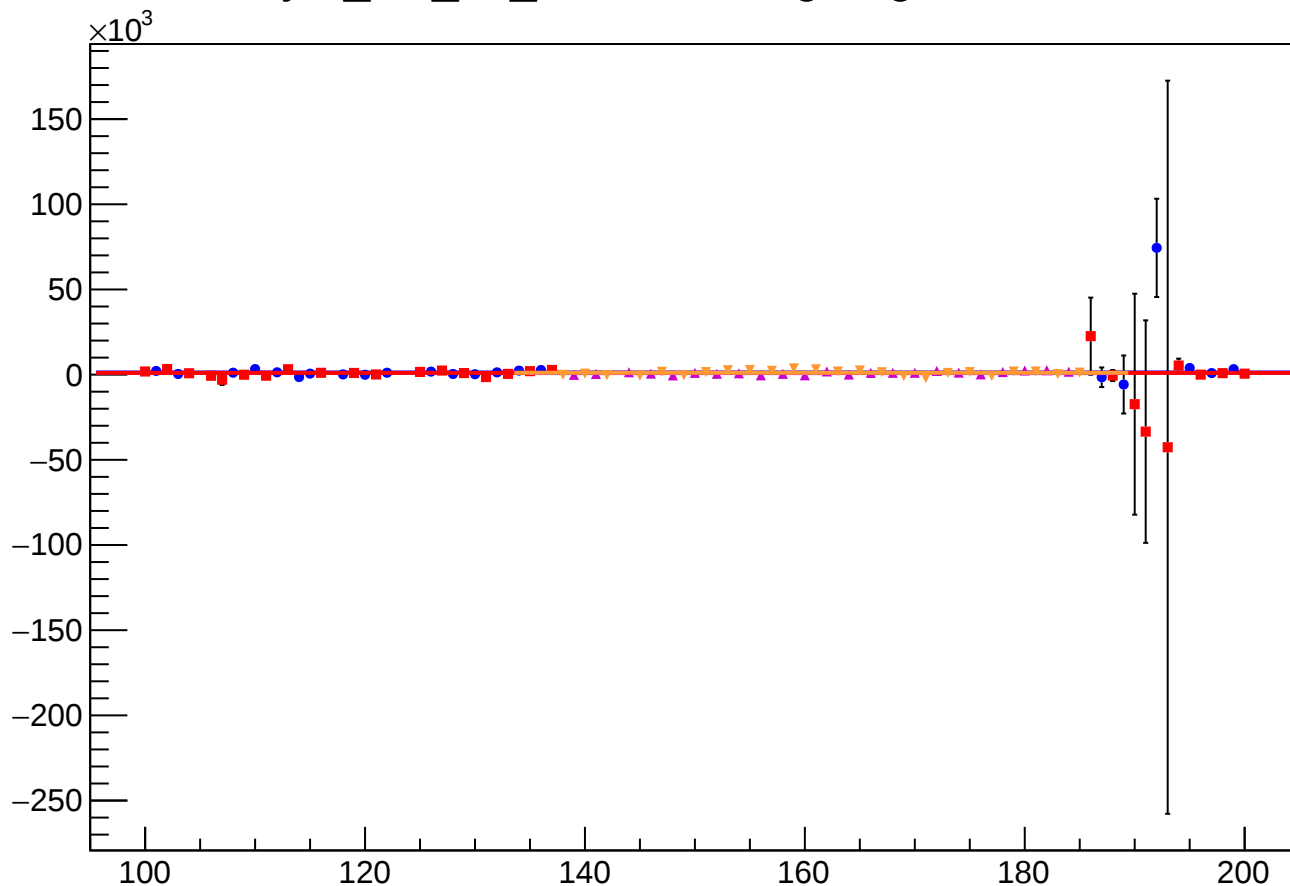
Right: 306.775 $\pm$ 0.061 χ^2 /NDF: 18292210.3/48

In: 600.245 $\pm$ 0.085 χ^2 /NDF: 4961829.1/44

Out: 358.544 $\pm$ 0.063 χ^2 /NDF: 26067535.0/50

All: 444.412 $\pm$ 0.051 χ^2 /NDF: 36233050.7/95

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1254.893 $\pm$ 288.875 χ^2 /NDF: 20.5/21

Left Out: 1105.144 $\pm$ 228.700 χ^2 /NDF:38.3/23

Right Out: 1036.758 $\pm$ 274.397 χ^2 /NDF: 25.3/26

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

Left: 1015.515 $\pm$ 161.537 χ^2 /NDF: 53.7/46

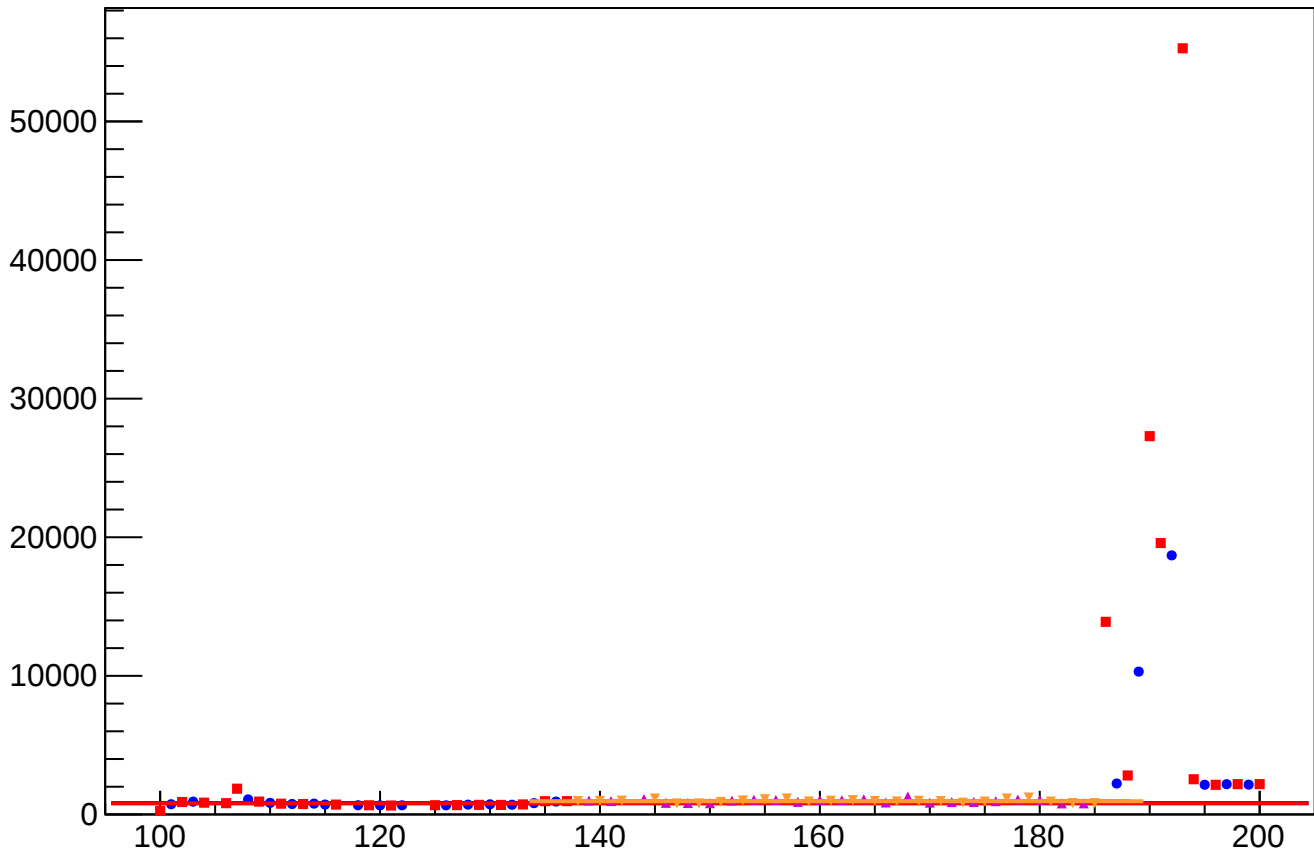
Right: 1140.222 $\pm$ 198.950 χ^2 /NDF: 46.2/48

In: 1052.548 $\pm$ 179.066 χ^2 /NDF:36.4/44

Out: 1077.112 $\pm$ 175.681 χ^2 /NDF:63.6/50

All: 1065.064 $\pm$ 125.405 χ^2 /NDF: 100.1/95

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 823.360+/-0.204 χ^2/NDF : 3751656.4/21

Left Out: 953.781+/-0.162 χ^2/NDF : 460211.0/23

Right Out: 800.046+/-0.194 χ^2/NDF : 5532787.4/26

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

Left: 949.902+/-0.114 χ^2/NDF : 962801.6/46

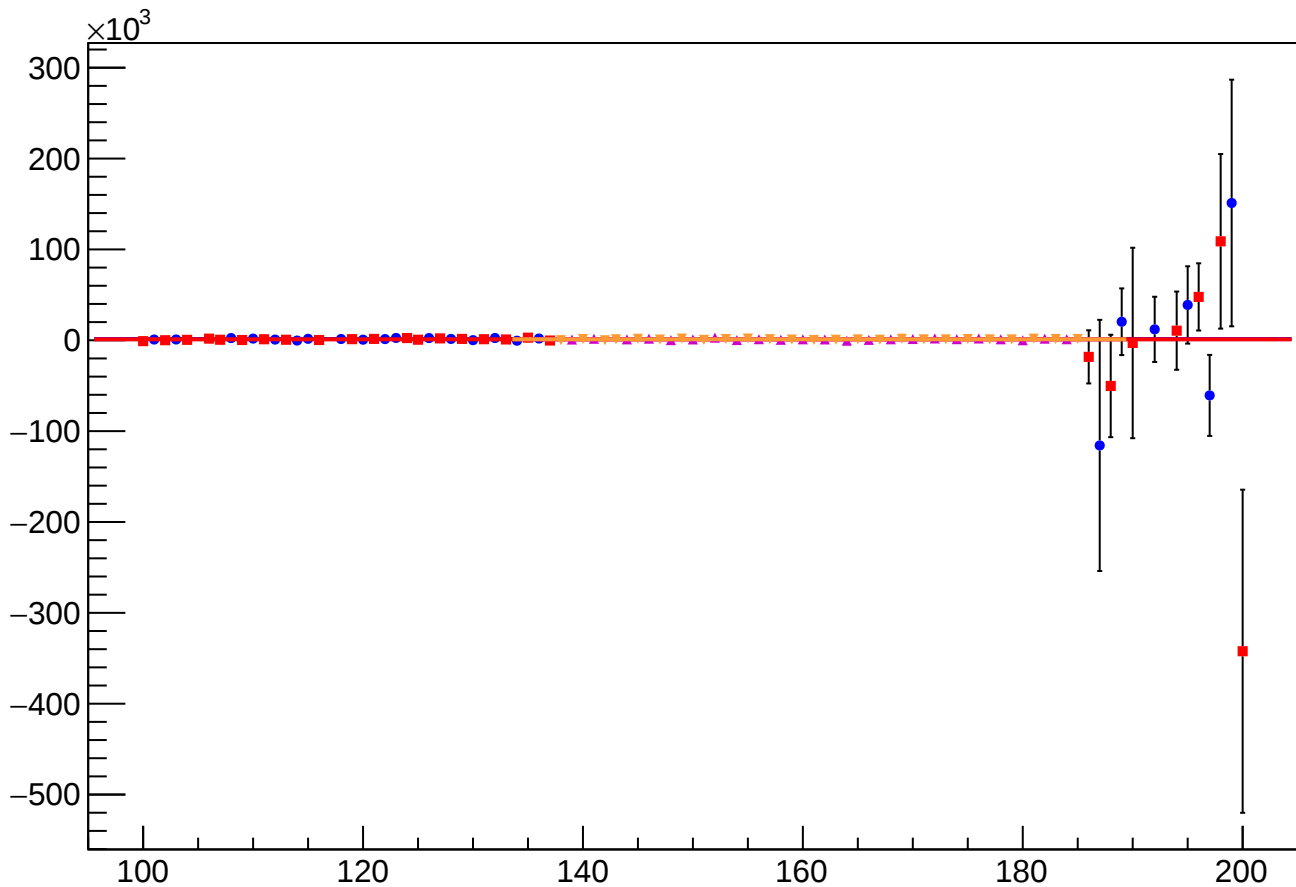
Right: 811.104+/-0.141 χ^2/NDF : 9291292.2/48

In: 898.902+/-0.127 χ^2/NDF : 4475210.3/44

Out: 890.763+/-0.124 χ^2/NDF : 6363452.1/50

All: 894.755+/-0.089 χ^2/NDF : 10840767.4/99

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1324.722+/-218.586 χ^2/NDF : 17.8/22

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

Right Out: 1040.548+/-212.065 χ^2/NDF : 21.4/25

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

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

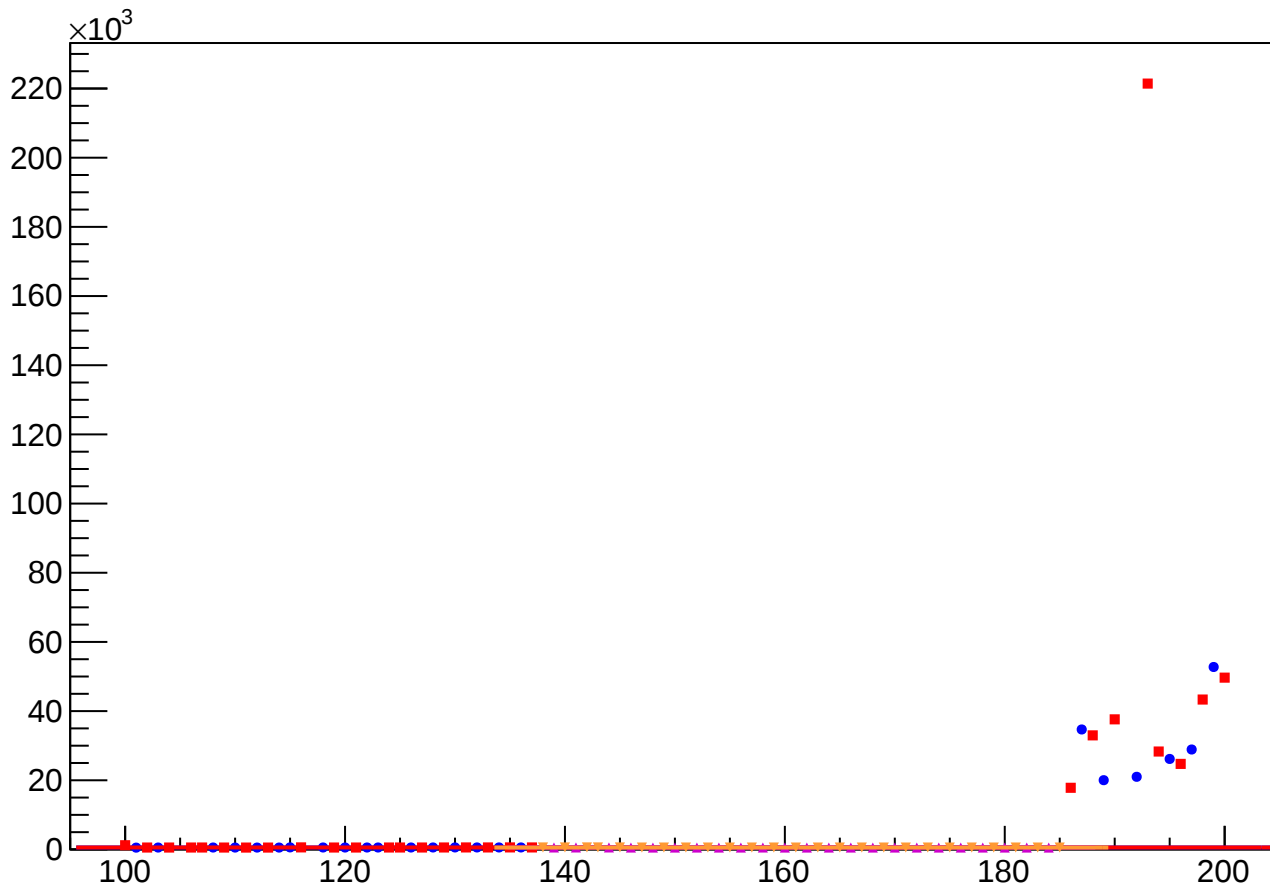
Right: 1178.333+/-152.206 χ^2/NDF : 40.1/48

In: 1178.226+/-113.722 χ^2/NDF : 48.4/45

Out: 1064.622+/-110.640 χ^2/NDF : 36.5/50

All: 1119.863+/-79.302 χ^2/NDF : 85.5/96

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 566.588 $\pm$ 0.155 χ^2 /NDF: 3240069.6/22

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

Right Out: 568.652 $\pm$ 0.150 χ^2 /NDF: 4083116.8/26

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

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

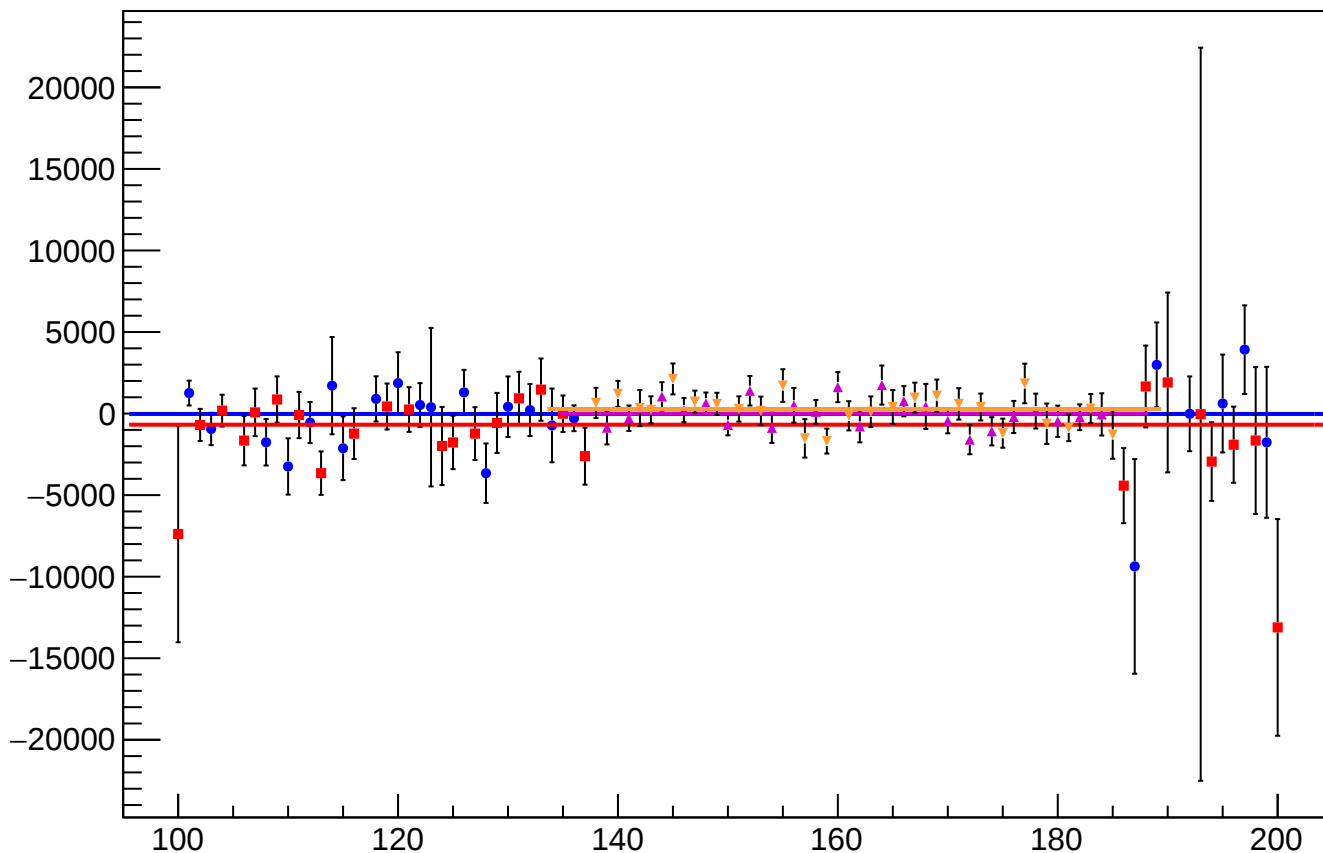
Right: 567.651 $\pm$ 0.108 χ^2 /NDF: 7323278.2/49

In: 559.573 $\pm$ 0.080 χ^2 /NDF:3254104.2/45

Out: 560.560 $\pm$ 0.078 χ^2 /NDF:4101870.4/51

All: 560.080 $\pm$ 0.056 χ^2 /NDF: 7356052.0/97

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -23.383 ± 317.265 $\chi^2/\text{NDF}: 22.8/22$

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

Right Out: -681.556 ± 318.959 $\chi^2/\text{NDF}: 23.2/26$

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

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

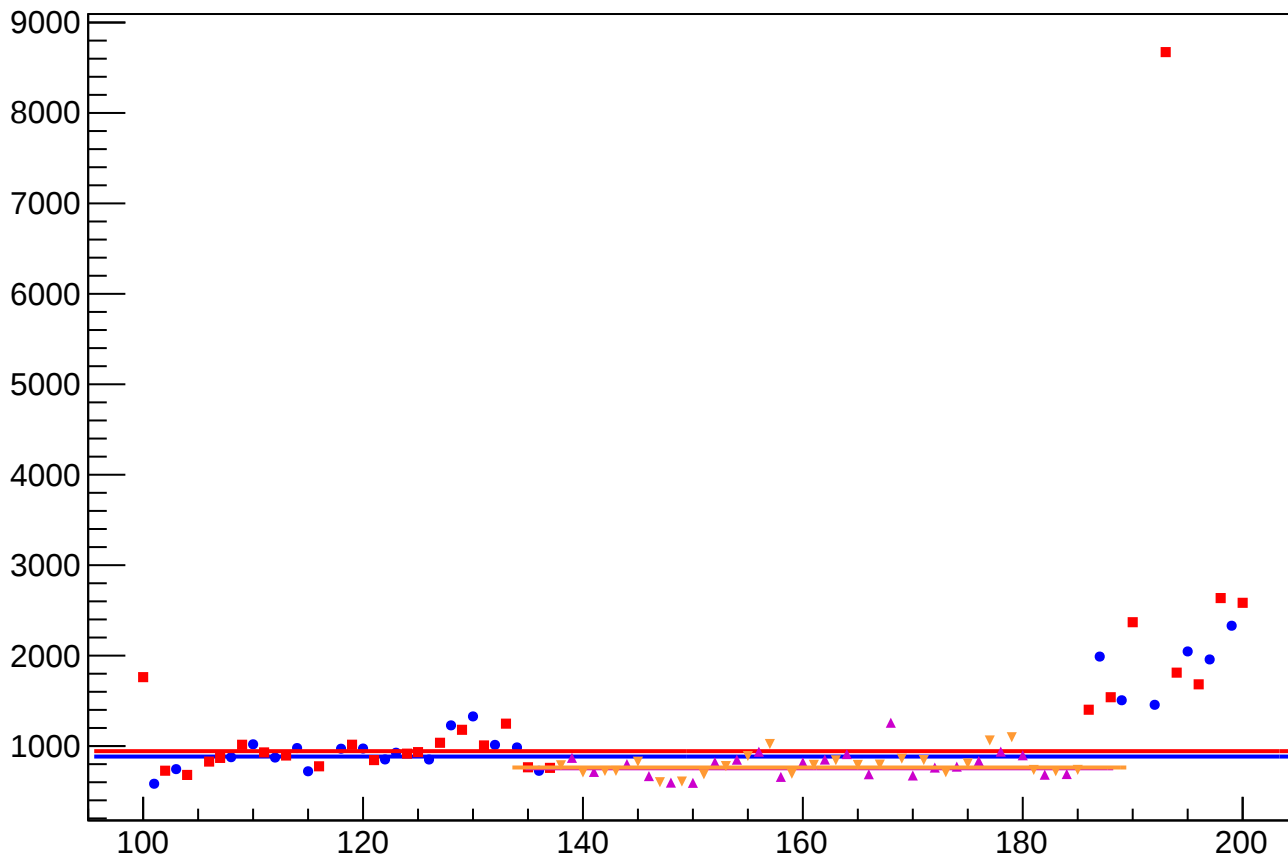
Right: -350.716 ± 224.937 $\chi^2/\text{NDF}: 48.1/49$

In: -12.011 ± 158.768 $\chi^2/\text{NDF}: 42.9/45$

Out: 48.330 ± 157.040 $\chi^2/\text{NDF}: 56.8/51$

All: 18.490 ± 111.650 $\chi^2/\text{NDF}: 99.8/97$

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 883.964+/-0.224 χ^2/NDF : 1780584.5/22

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

Right Out: 943.630+/-0.226 χ^2/NDF : 1931360.4/26

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

Left: 758.665+/-0.091 χ^2/NDF : 1687969.6/47

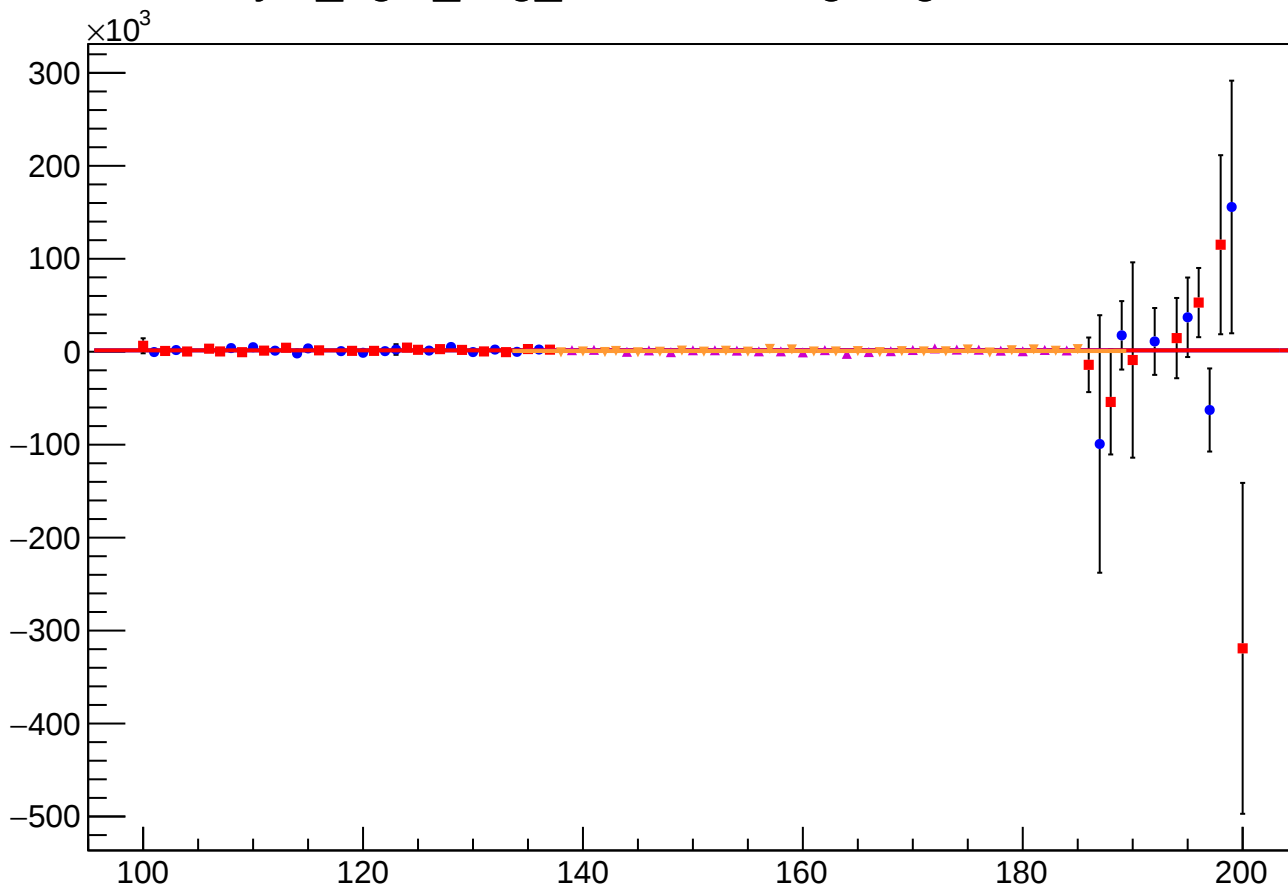
Right: 913.638+/-0.159 χ^2/NDF : 3747125.2/49

In: 786.621+/-0.112 χ^2/NDF : 2963594.6/45

Out: 806.851+/-0.111 χ^2/NDF : 3170537.9/51

All: 796.846+/-0.079 χ^2/NDF : 6150546.0/97

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1499.545 $\pm$ 402.580 χ^2 /NDF: 21.9/22

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

Right Out: 1489.340 $\pm$ 400.623 χ^2 /NDF: 19.9/25

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

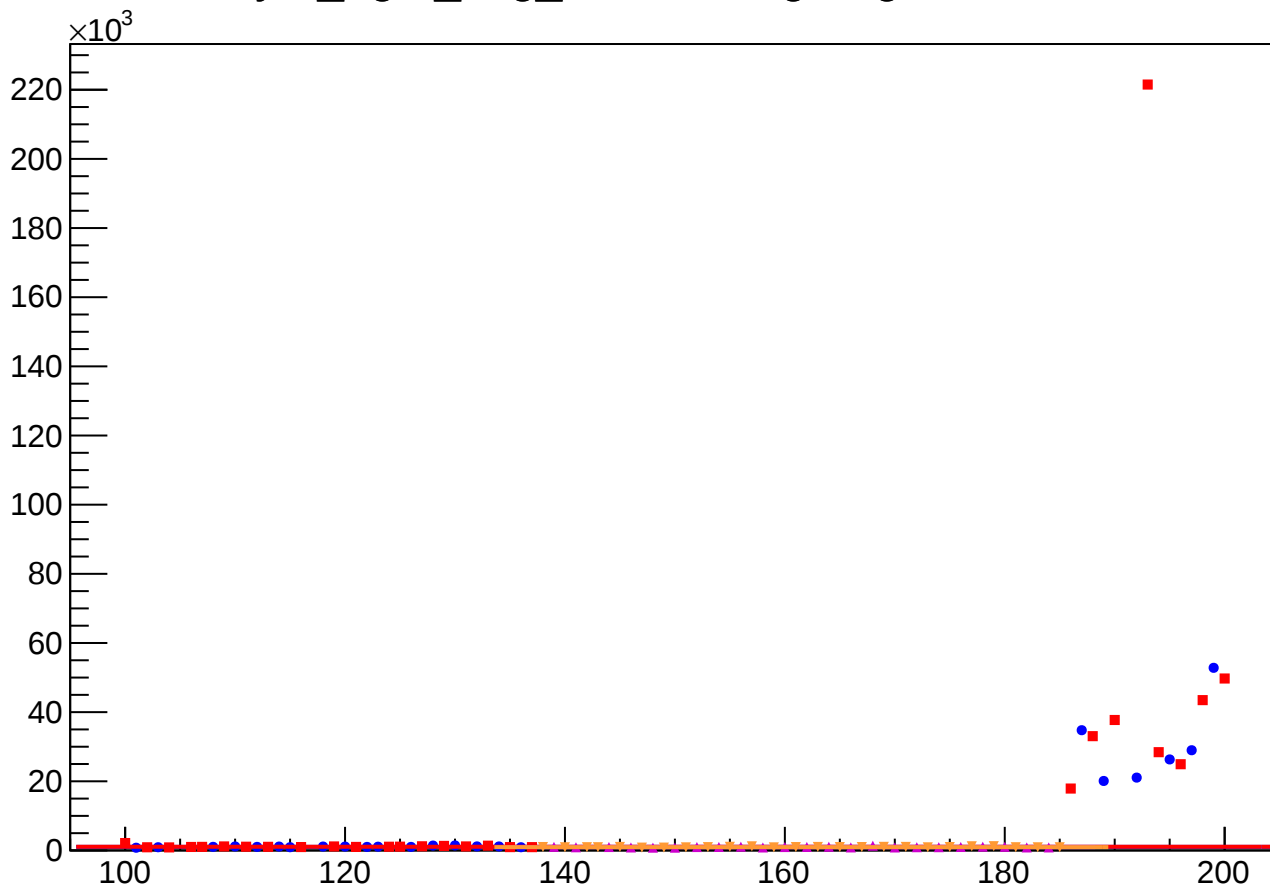
Right: 1494.417 $\pm$ 283.973 χ^2 /NDF: 41.9/48

In: 1216.896 $\pm$ 199.748 χ^2 /NDF:48.0/45

Out: 920.060 $\pm$ 196.532 χ^2 /NDF:44.1/50

All: 1066.069 $\pm$ 140.092 χ^2 /NDF: 93.2/96

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1032.184 $\pm$ 0.285 χ^2 /NDF: 3449727.4/22

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

Right Out: 1069.493 $\pm$ 0.283 χ^2 /NDF: 4127304.2/26

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

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

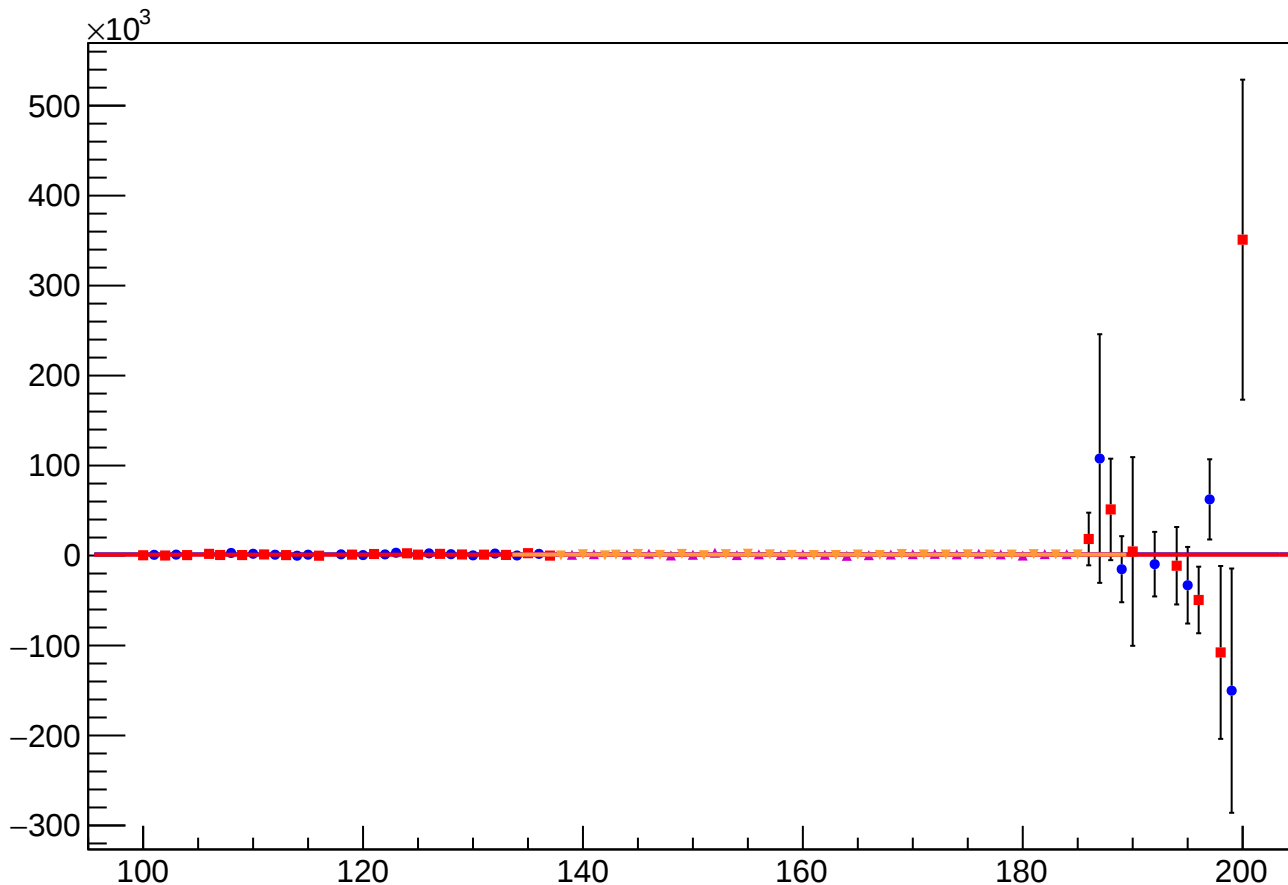
Right: 1050.929 $\pm$ 0.201 χ^2 /NDF: 7585662.1/49

In: 973.733 $\pm$ 0.141 χ^2 /NDF:3949052.9/45

Out: 988.063 $\pm$ 0.139 χ^2 /NDF:4599057.9/51

All: 981.014 $\pm$ 0.099 χ^2 /NDF: 8553341.3/97

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.843+/-218.841 χ^2/NDF : 16.7/22

Left Out: 1087.627+/-129.821 χ^2/NDF : 14.9/24

Right Out: 965.104+/-208.600 χ^2/NDF : 20.5/25

Left In: 1189.481+/-133.313 χ^2/NDF : 32.2/22

Left: 1137.202+/-93.008 χ^2/NDF : 47.4/47

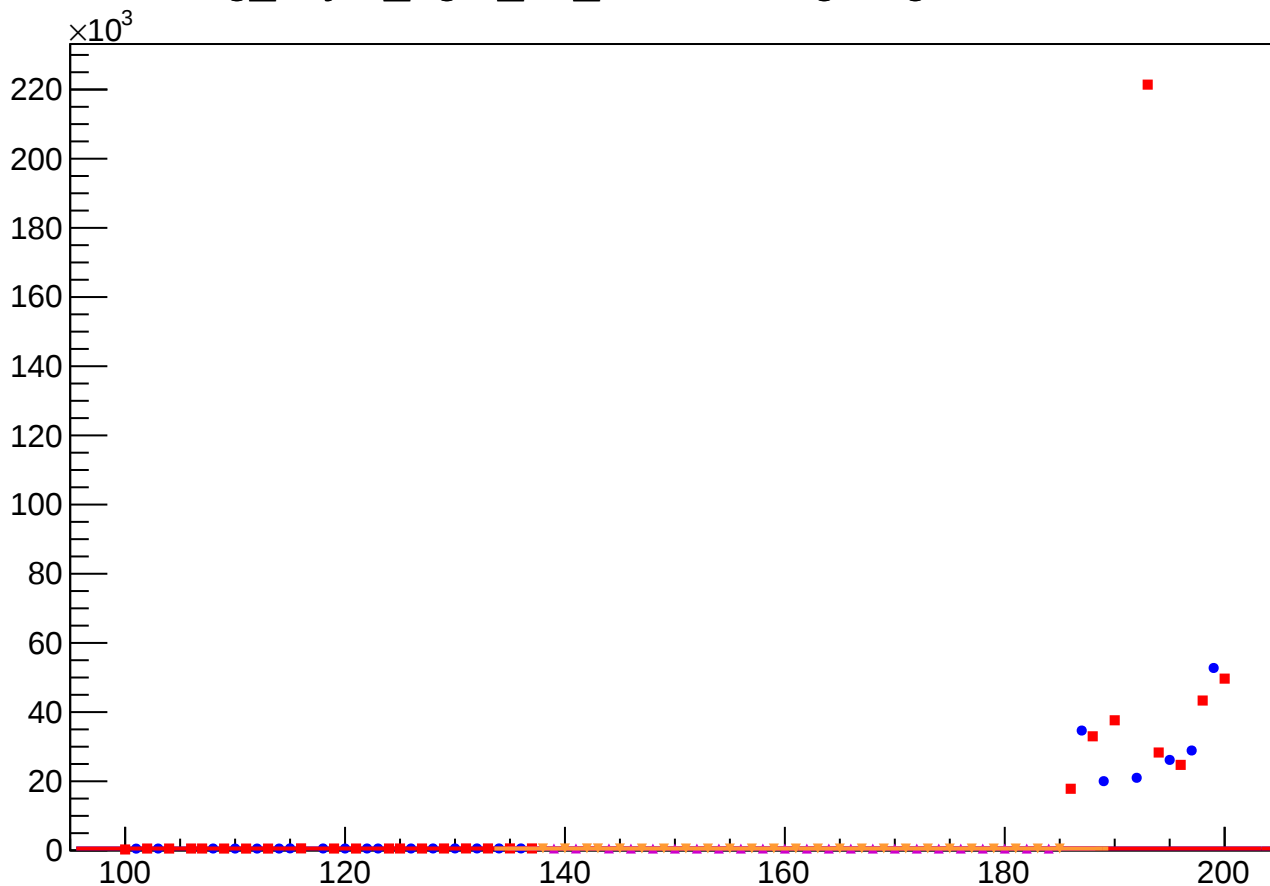
Right: 1145.881+/-150.993 χ^2/NDF : 38.7/48

In: 1231.531+/-113.852 χ^2/NDF : 49.2/45

Out: 1053.421+/-110.220 χ^2/NDF : 35.6/50

All: 1139.590+/-79.190 χ^2/NDF : 86.1/96

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 567.248 $\pm$ 0.155 χ^2 /NDF: 3240160.3/22

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

Right Out: 557.680 $\pm$ 0.148 χ^2 /NDF: 4169638.0/26

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

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

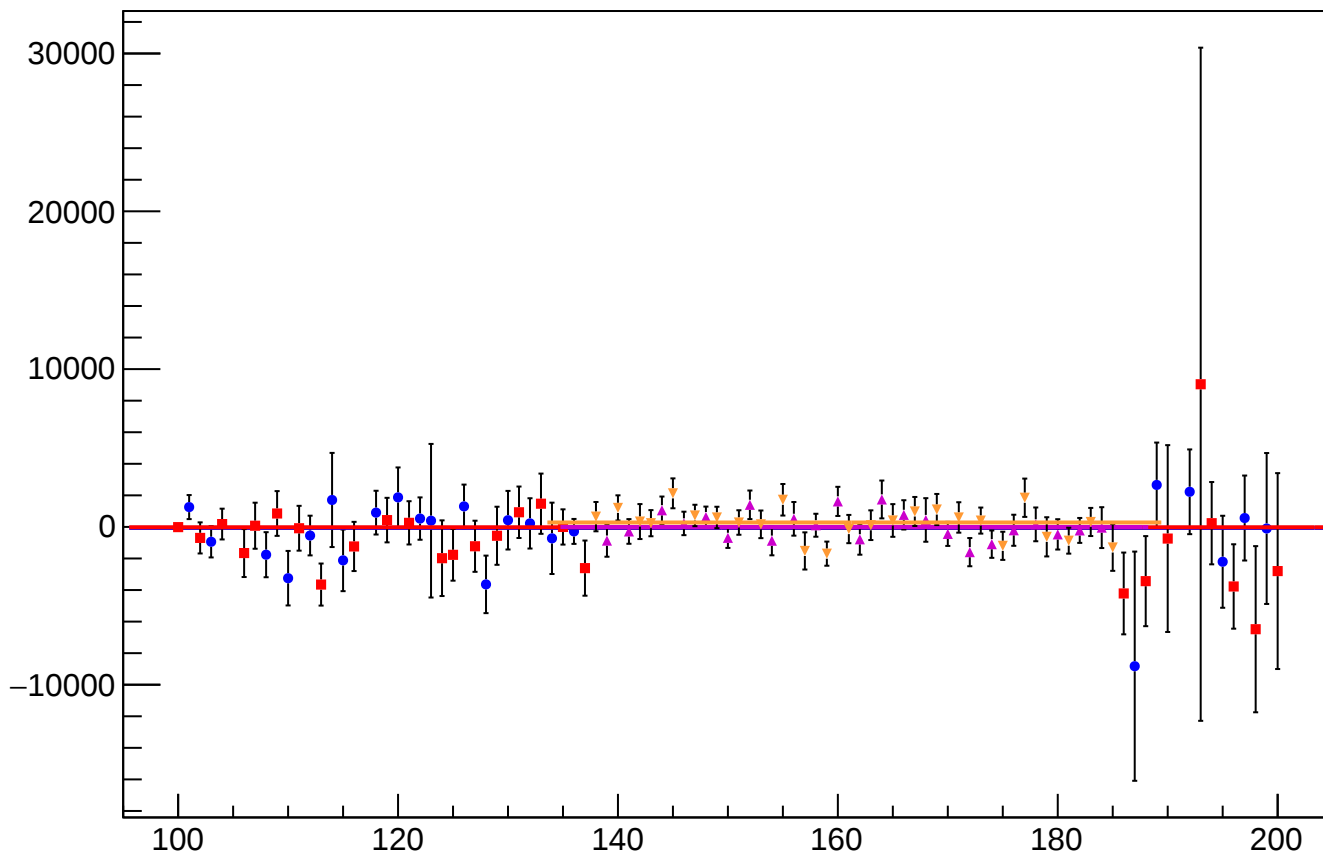
Right: 562.235 $\pm$ 0.107 χ^2 /NDF: 7411801.1/49

In: 560.209 $\pm$ 0.081 χ^2 /NDF: 3254274.0/45

Out: 557.982 $\pm$ 0.078 χ^2 /NDF: 4184429.0/51

All: 559.059 $\pm$ 0.056 χ^2 /NDF: 7439097.9/97

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -63.539+/-318.302 χ^2/NDF : 20.8/22

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

Right Out: -22.865+/-38.936 χ^2/NDF : 23.8/26

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

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

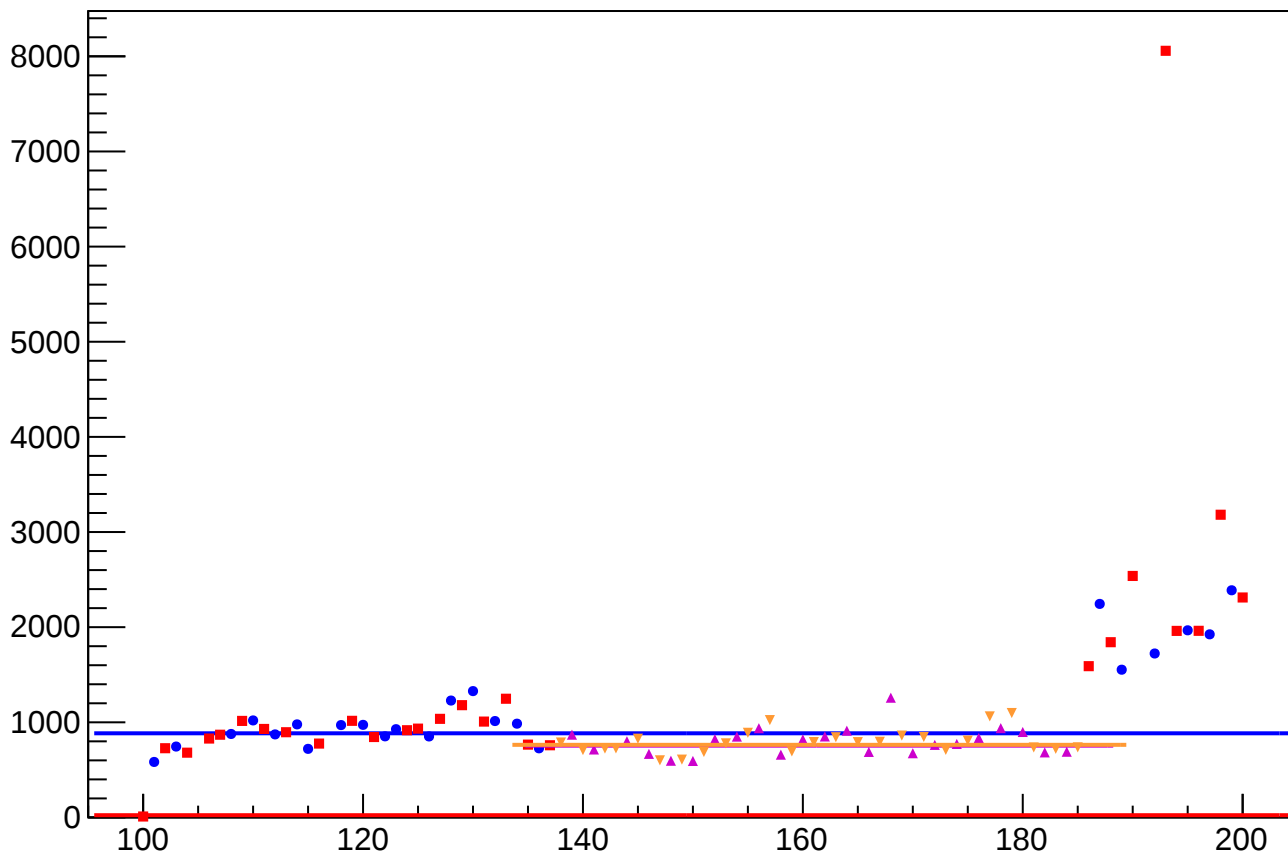
Right: -23.465+/-38.648 χ^2/NDF : 44.7/49

In: -21.330+/-158.957 χ^2/NDF :41.0/45

Out: -9.333+/-38.060 χ^2/NDF :53.3/51

All: -9.984+/-37.014 χ^2/NDF : 94.3/97

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 884.538+/-0.225

χ^2/NDF : 1838451.3/22

Left Out: 763.307+/-0.128

χ^2/NDF : 753728.9/24

Right Out: 23.707+/-0.028

χ^2/NDF : 18818958.8/26

Left In: 754.483+/-0.130

χ^2/NDF : 931536.8/22

Left: 758.967+/-0.091

χ^2/NDF : 1687616.8/47

Right: 36.397+/-0.027

χ^2/NDF : 35069906.7/49

In: 786.917+/-0.112

χ^2/NDF : 3020613.2/45

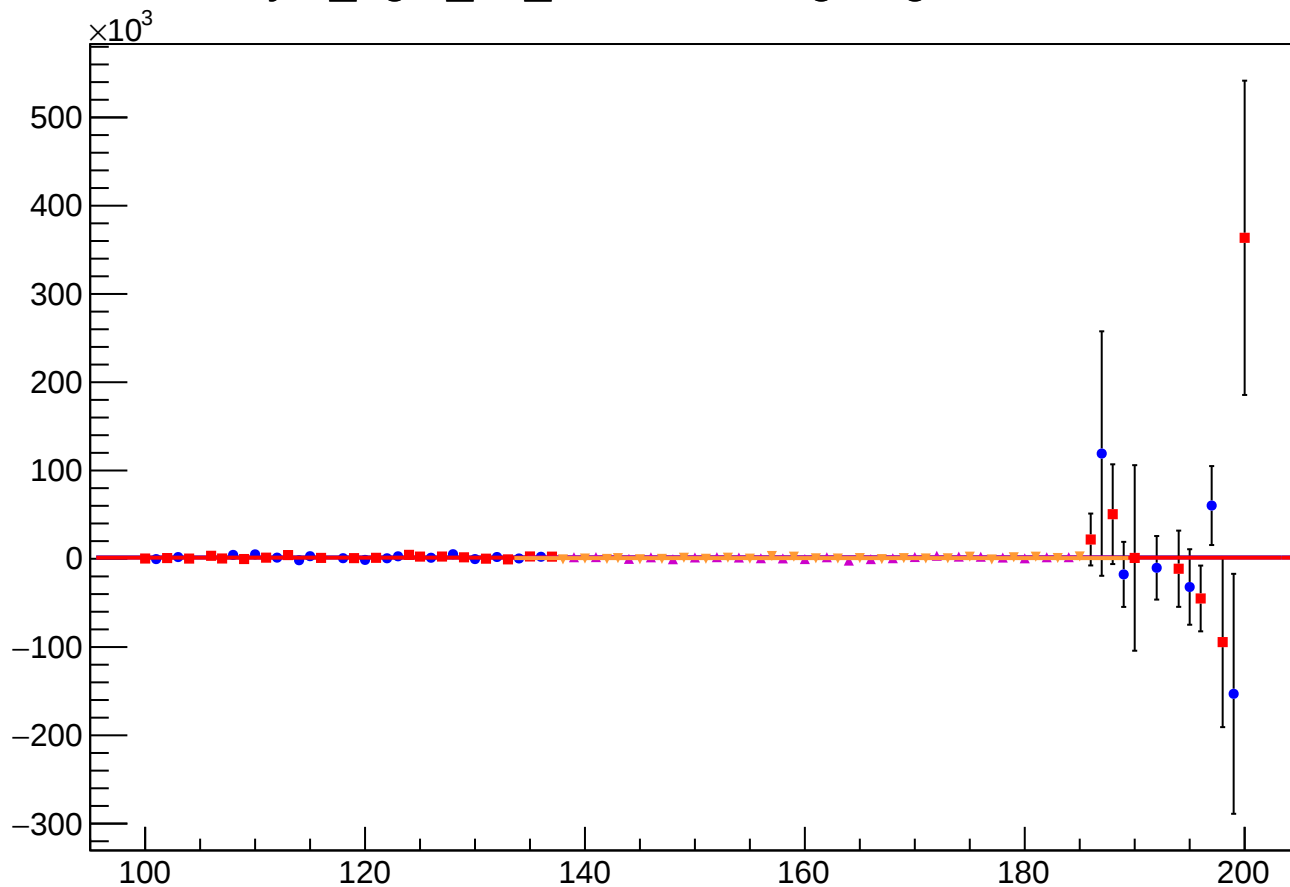
Out: 56.599+/-0.027

χ^2/NDF : 51666262.7/51

All: 96.198+/-0.026

χ^2/NDF : 94615657.9/97

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1517.157 $\pm$ 402.803 χ^2 /NDF: 22.5/22

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

Right Out: 1287.569 $\pm$ 376.600 χ^2 /NDF: 20.4/25

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

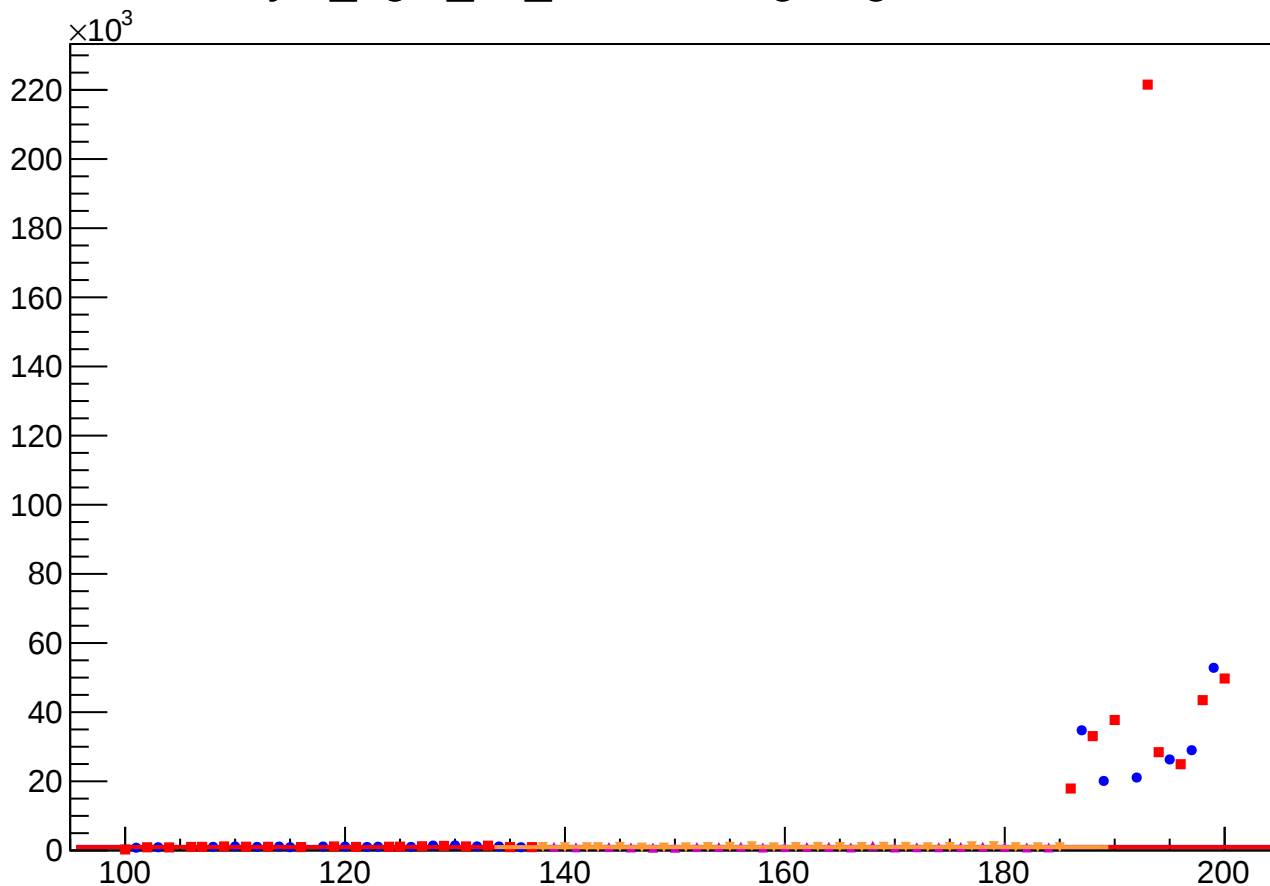
Right: 1394.653 $\pm$ 275.094 χ^2 /NDF: 43.1/48

In: 1260.225 $\pm$ 199.883 χ^2 /NDF: 47.3/45

Out: 886.738 $\pm$ 193.569 χ^2 /NDF: 42.1/50

All: 1067.489 $\pm$ 139.052 χ^2 /NDF: 91.3/96

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1032.762 $\pm$ 0.285 χ^2 /NDF: 3449951.1/22

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

Right Out: 974.428 $\pm$ 0.266 χ^2 /NDF: 4990737.8/26

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

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

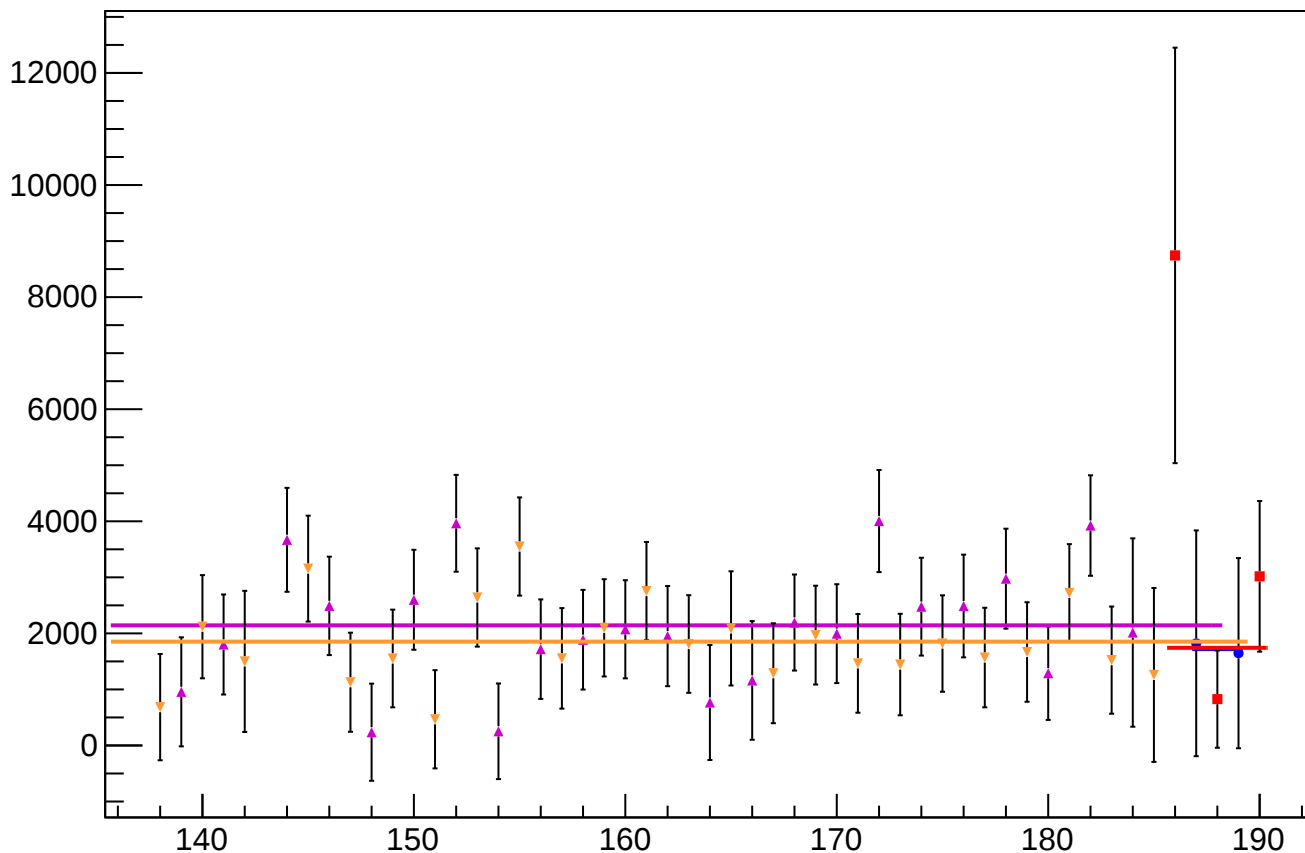
Right: 1001.636 $\pm$ 0.195 χ^2 /NDF: 8463070.8/49

In: 974.398 $\pm$ 0.141 χ^2 /NDF: 3948727.3/45

Out: 965.855 $\pm$ 0.137 χ^2 /NDF: 5354984.3/51

All: 969.989 $\pm$ 0.098 χ^2 /NDF: 9305596.9/97

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

Left Out: 1852.926+/-187.412 χ^2/NDF :15.0/23

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

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

Left: 1995.990+/-133.476 χ^2/NDF : 48.5/46

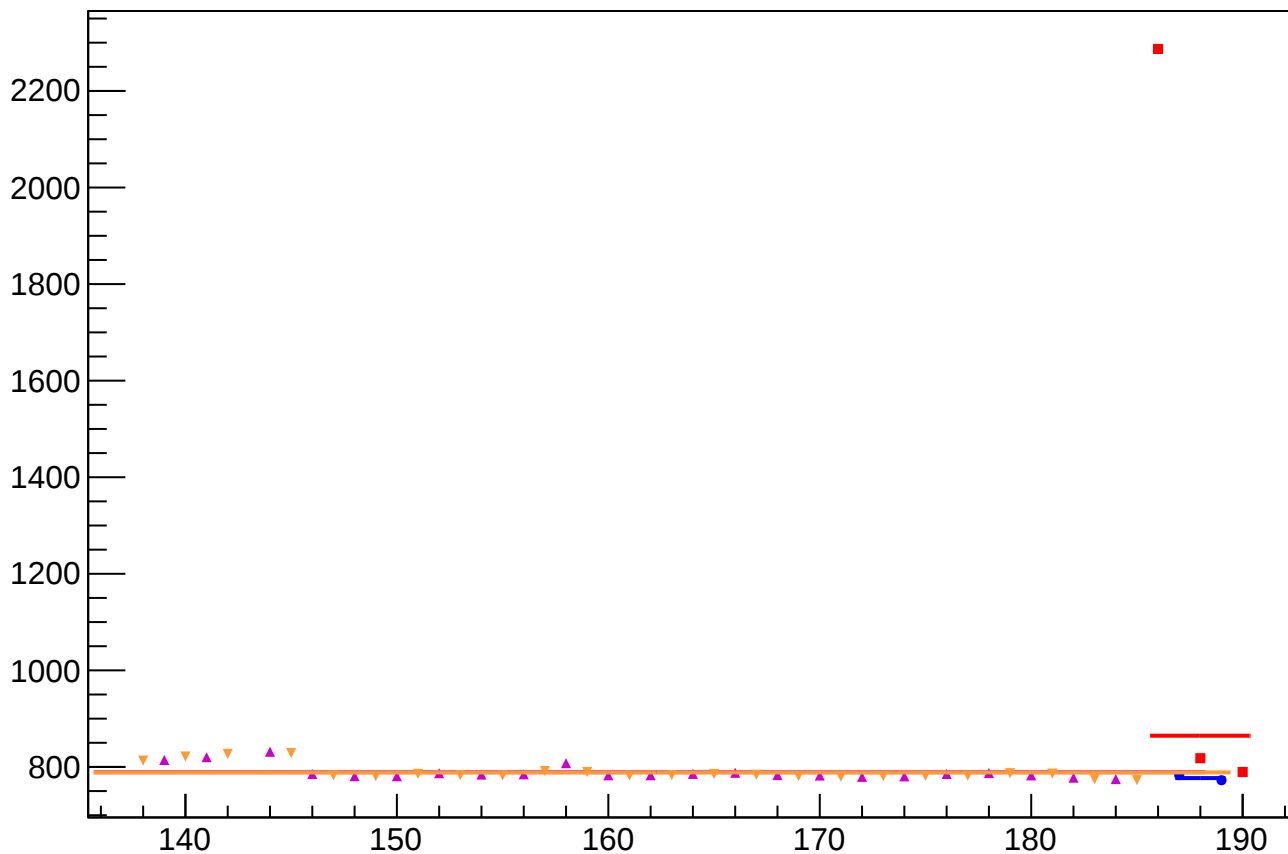
Right: 1737.192+/-626.421 χ^2/NDF : 5.6/4

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

Out: 1845.825+/-181.293 χ^2/NDF :20.6/26

All: 1984.750+/-130.545 χ^2/NDF : 54.3/51

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 776.892 $\pm$ 0.918 χ^2 /NDF: 32.5/1

Left Out: 788.658 $\pm$ 0.133 χ^2 /NDF: 11499.7/23

Right Out: 864.658 $\pm$ 0.506 χ^2 /NDF: 306489.7/2

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

Left: 788.914 $\pm$ 0.094 χ^2 /NDF: 22367.7/46

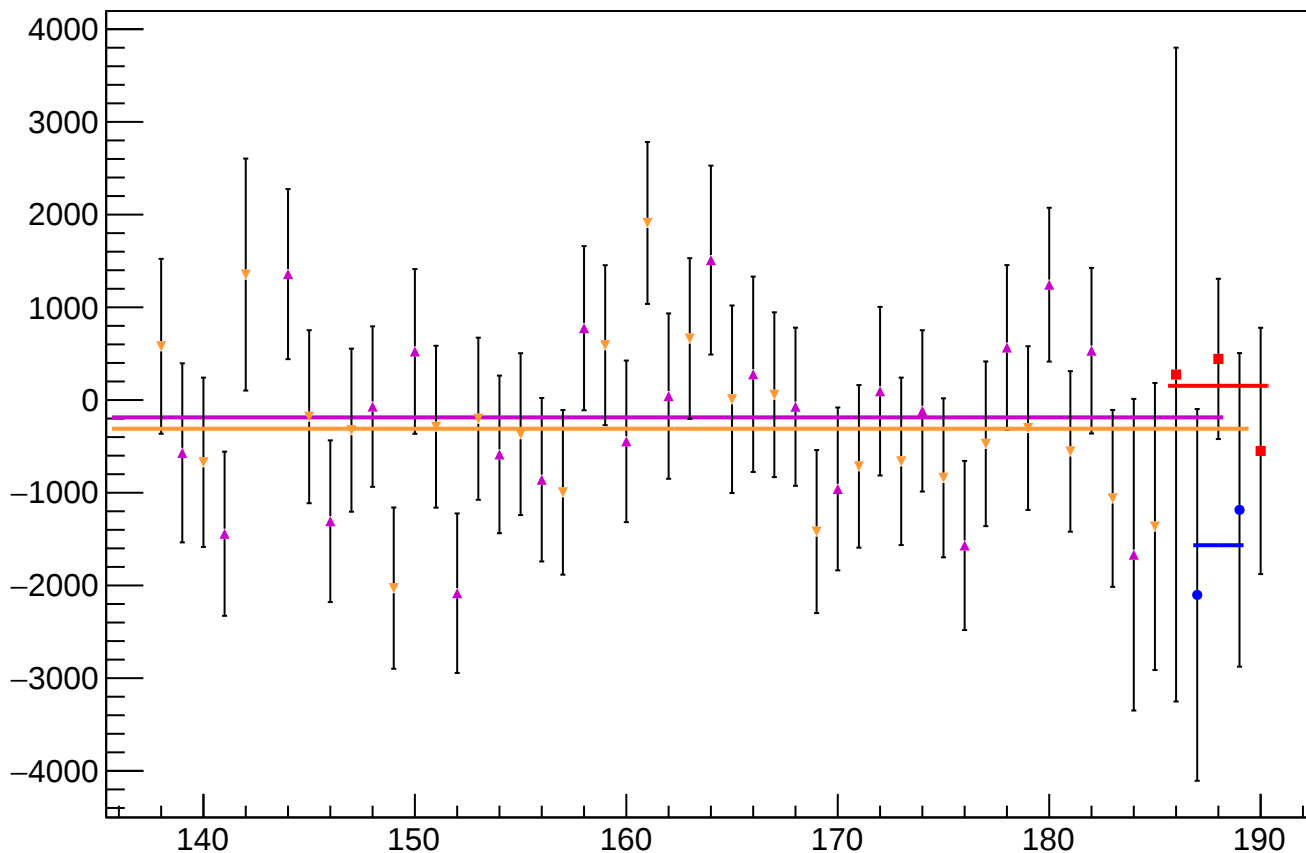
Right: 844.207 $\pm$ 0.443 χ^2 /NDF: 313539.0/4

In: 788.918 $\pm$ 0.133 χ^2 /NDF: 11068.4/24

Out: 793.541 $\pm$ 0.128 χ^2 /NDF: 339118.2/26

All: 791.315 $\pm$ 0.092 χ^2 /NDF: 350812.6/51

cor_asym_us_dd_mean vs Slug, Sign Corrected



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

Left Out: -309.656 $\pm$ 186.542 χ^2 /NDF:20.0/23

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

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

Left: -249.268 $\pm$ 132.858 χ^2 /NDF: 45.8/46

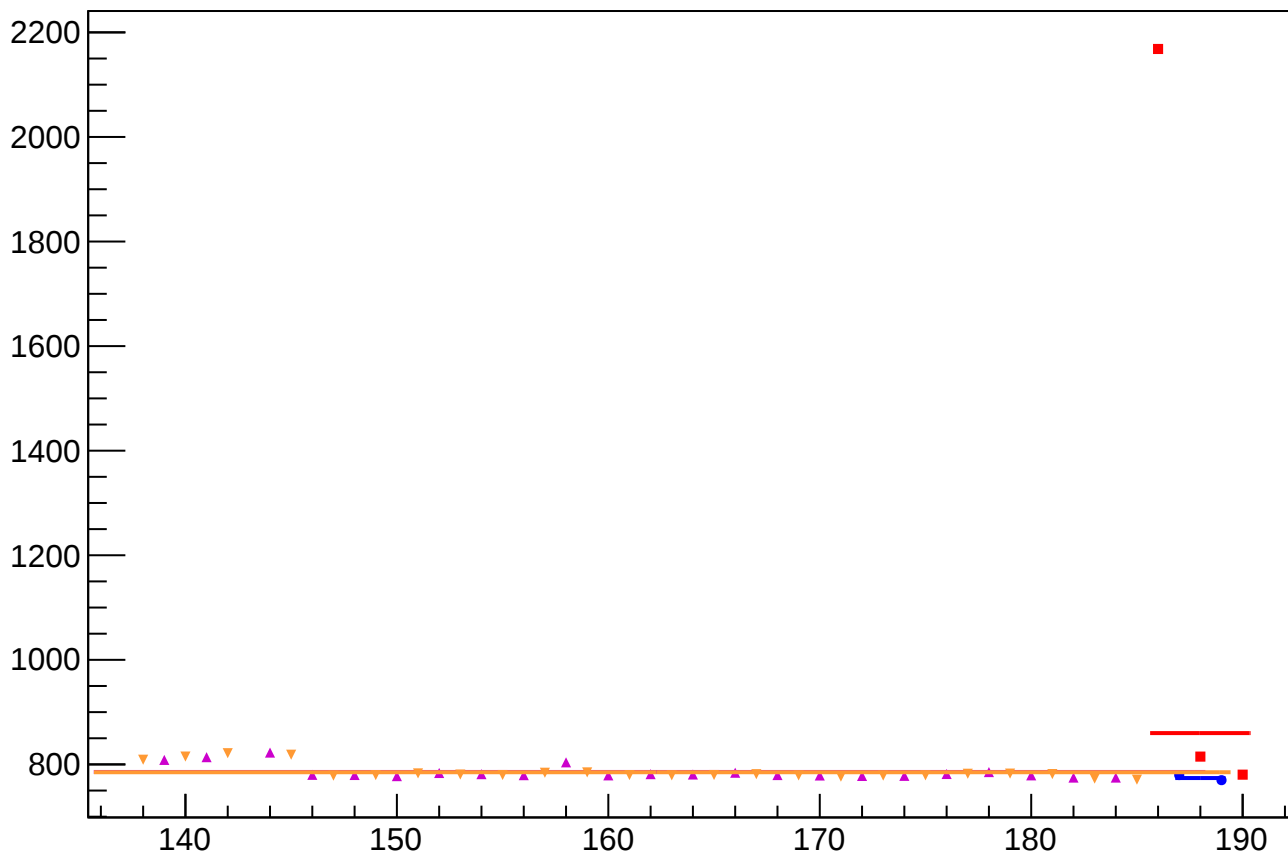
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

Out: -279.729 $\pm$ 180.413 χ^2 /NDF:20.8/26

All: -249.074 $\pm$ 129.927 χ^2 /NDF: 47.6/51

cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 773.922+/-0.914 χ^2/NDF : 27.7/1

Left Out: 785.050+/-0.132 χ^2/NDF : 9365.3/23

Right Out: 859.900+/-0.502 χ^2/NDF : 287948.2/2

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

Left: 785.302+/-0.094 χ^2/NDF : 18405.7/46

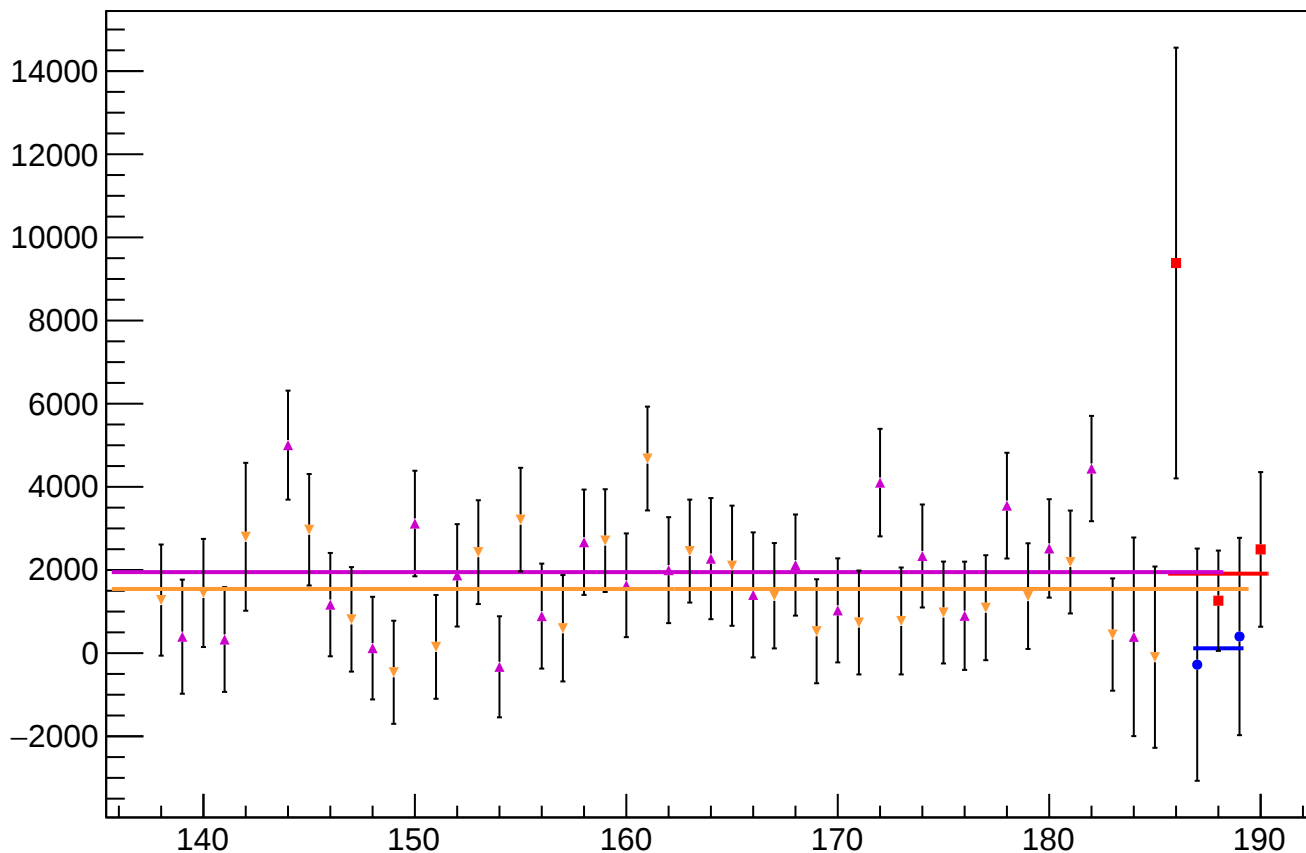
Right: 839.990+/-0.440 χ^2/NDF : 294774.5/4

In: 785.318+/-0.132 χ^2/NDF : 9219.5/24

Out: 789.888+/-0.128 χ^2/NDF : 318126.2/26

All: 787.688+/-0.092 χ^2/NDF : 327963.5/51

cor_asym_usl_mean vs Slug, Sign Corrected



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

Left Out: 1543.729 $\pm$ 266.278 χ^2 /NDF:19.9/23

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

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

Left: 1743.530 $\pm$ 189.617 χ^2 /NDF: 47.8/46

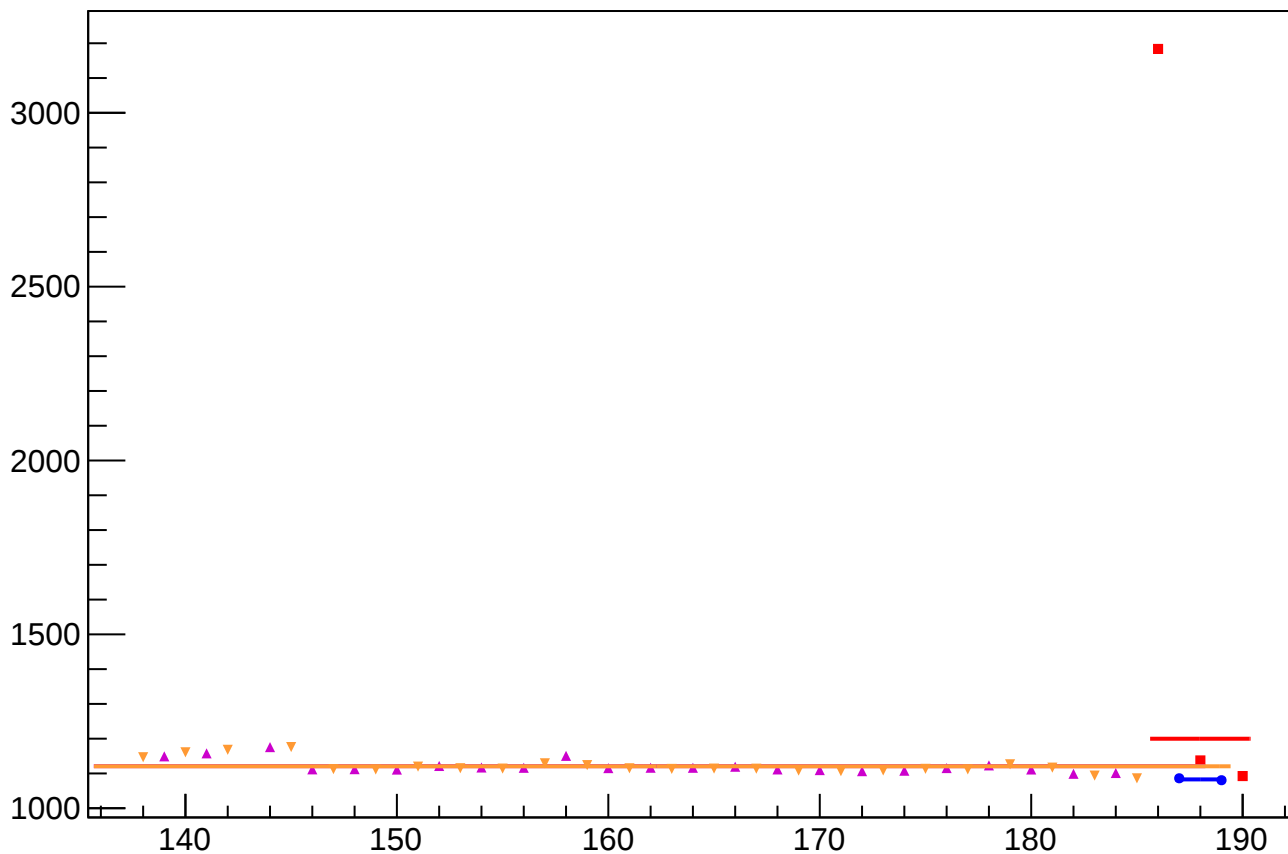
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

Out: 1568.402 $\pm$ 257.196 χ^2 /NDF:22.5/26

All: 1732.308 $\pm$ 185.274 χ^2 /NDF: 51.2/51

cor_asym_usl_rms vs Slug, Sign Corrected



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

Left Out: 1120.578+/-0.188 χ^2/NDF : 10264.0/23

Right Out: 1199.844+/-0.702 χ^2/NDF : 305356.1/2

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

Left: 1120.775+/-0.134 χ^2/NDF : 19525.9/46

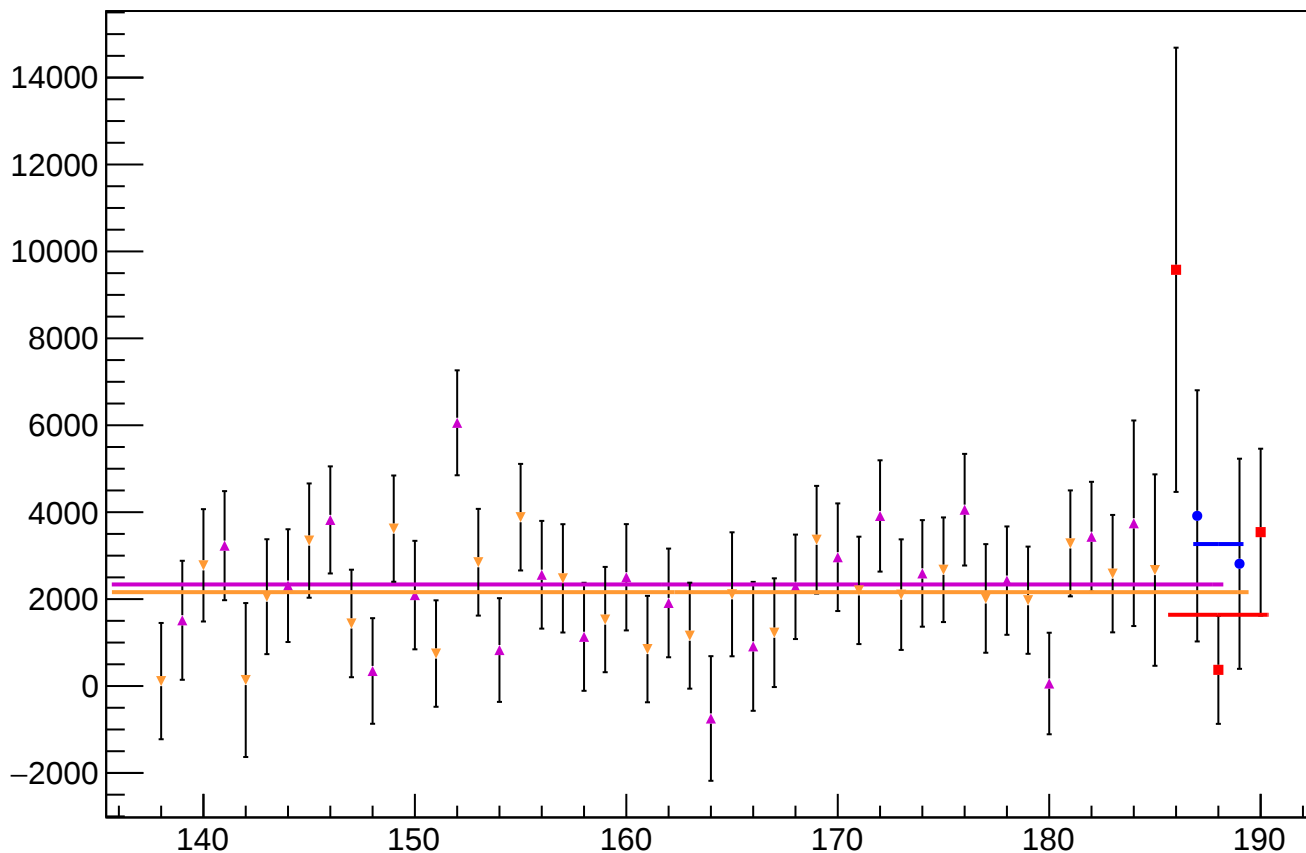
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

In: 1120.146+/-0.189 χ^2/NDF : 10132.9/24

Out: 1125.893+/-0.182 χ^2/NDF : 327503.8/26

All: 1123.129+/-0.131 χ^2/NDF : 338117.1/51

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

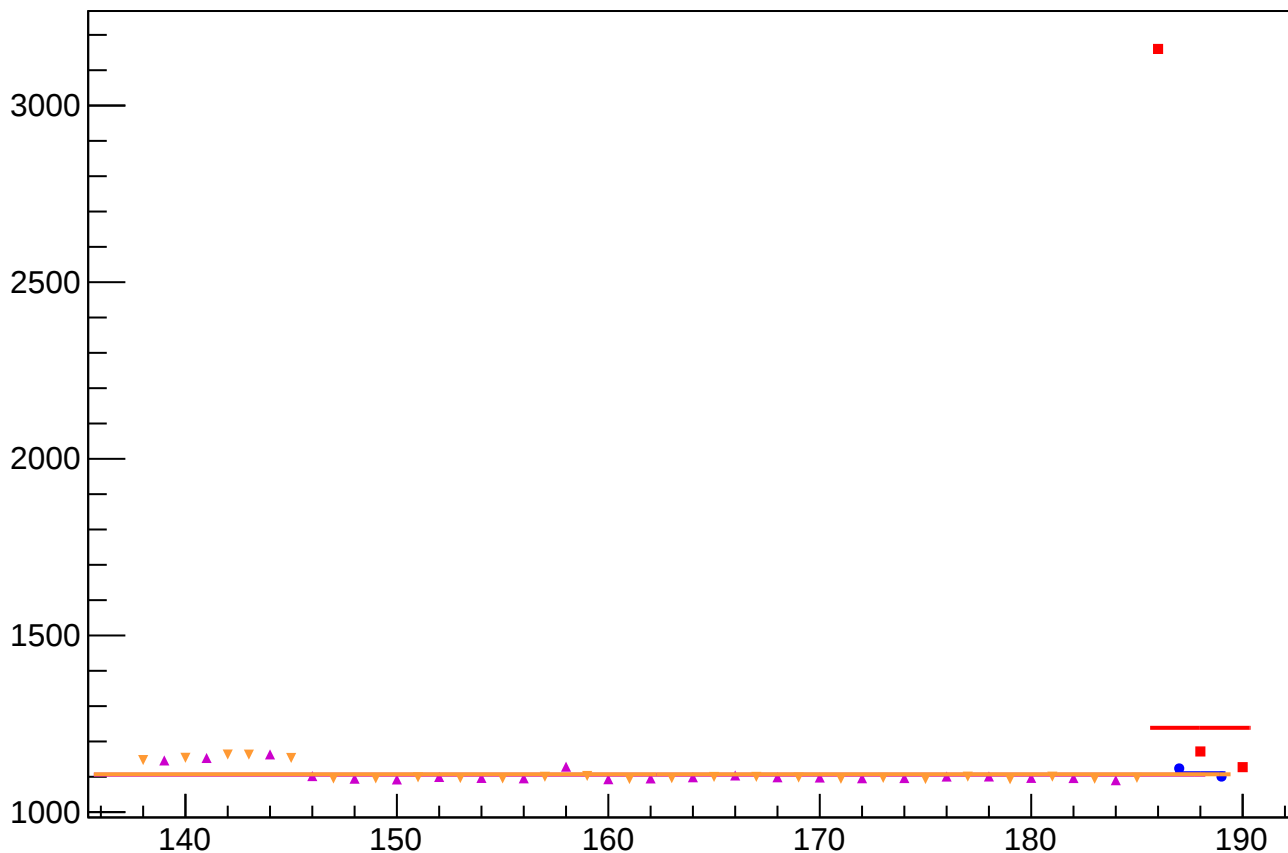
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1110.109 $\pm$ 1.311 χ^2/NDF : 75.3/1

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

Right Out: 1238.637 $\pm$ 0.723 χ^2/NDF : 295245.1/2

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

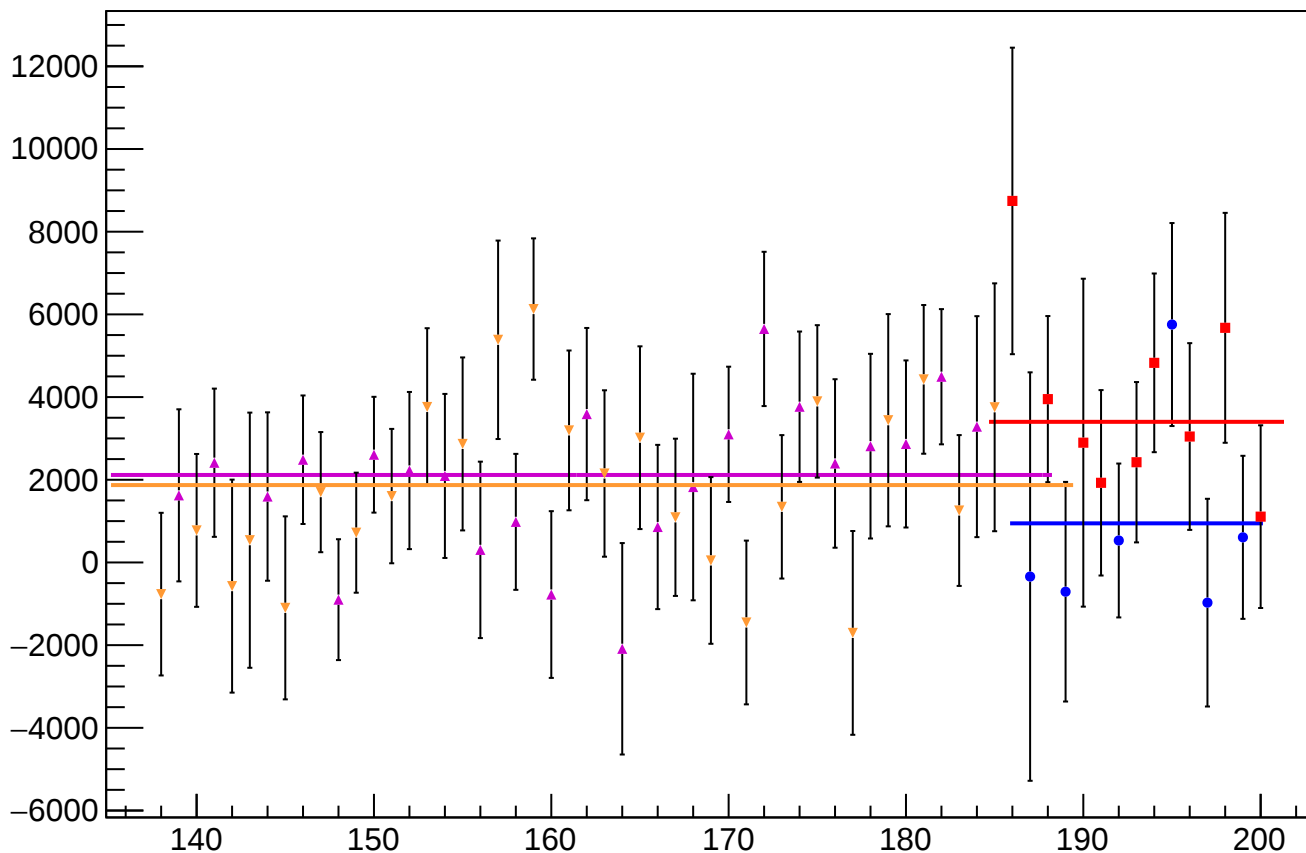
Right: 1208.687 $\pm$ 0.633 χ^2/NDF : 302689.7/4

In: 1106.039 $\pm$ 0.187 χ^2/NDF :11196.4/24

Out: 1114.943 $\pm$ 0.177 χ^2/NDF :341579.9/27

All: 1110.735 $\pm$ 0.128 χ^2/NDF : 353978.0/52

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 945.965+/-974.473 χ^2/NDF : 5.0/5

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

Right Out: 3401.231+/-792.243 χ^2/NDF : 5.1/8

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

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

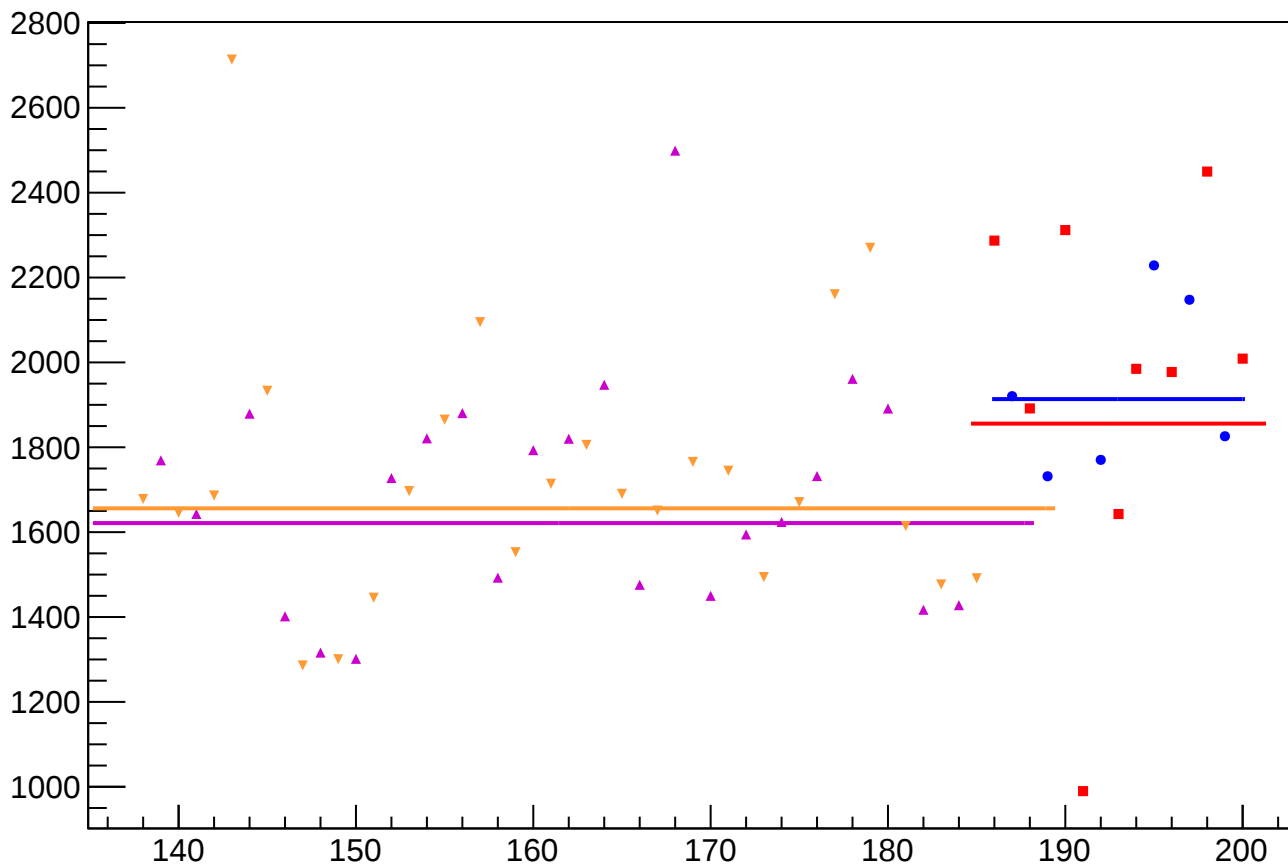
Right: 2424.184+/-614.721 χ^2/NDF : 13.8/14

In: 1952.420+/-364.473 χ^2/NDF : 25.0/28

Out: 2172.079+/-351.116 χ^2/NDF : 34.2/33

All: 2066.349+/-252.867 χ^2/NDF : 59.3/62

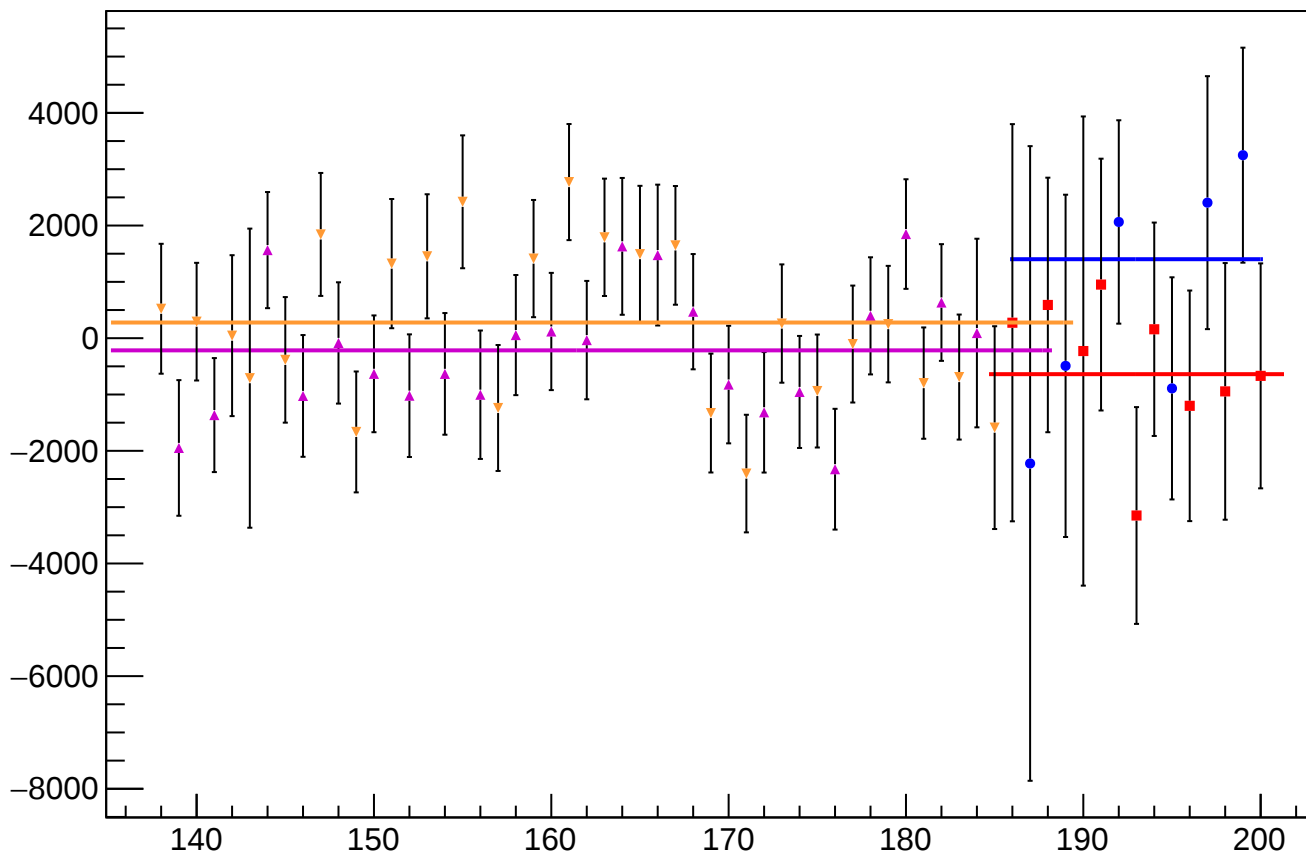
asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1913.552 $\pm$ 0.689 χ^2 /NDF: 75464.1/5
 Left Out: 1656.119 $\pm$ 0.277 χ^2 /NDF: 910573.4/24
 Right Out: 1855.790 $\pm$ 0.560 χ^2 /NDF: 490400.8/8
 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: 1878.775 $\pm$ 0.435 χ^2 /NDF: 570095.7/14
 In: 1662.284 $\pm$ 0.258 χ^2 /NDF: 1005374.5/28
 Out: 1695.338 $\pm$ 0.248 χ^2 /NDF: 1503061.2/33
 All: 1679.428 $\pm$ 0.179 χ^2 /NDF: 2516967.5/62

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1402.231 $\pm$ 921.933 χ^2 /NDF: 3.4/5

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

Right Out: -638.713 $\pm$ 752.764 χ^2 /NDF: 2.8/8

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

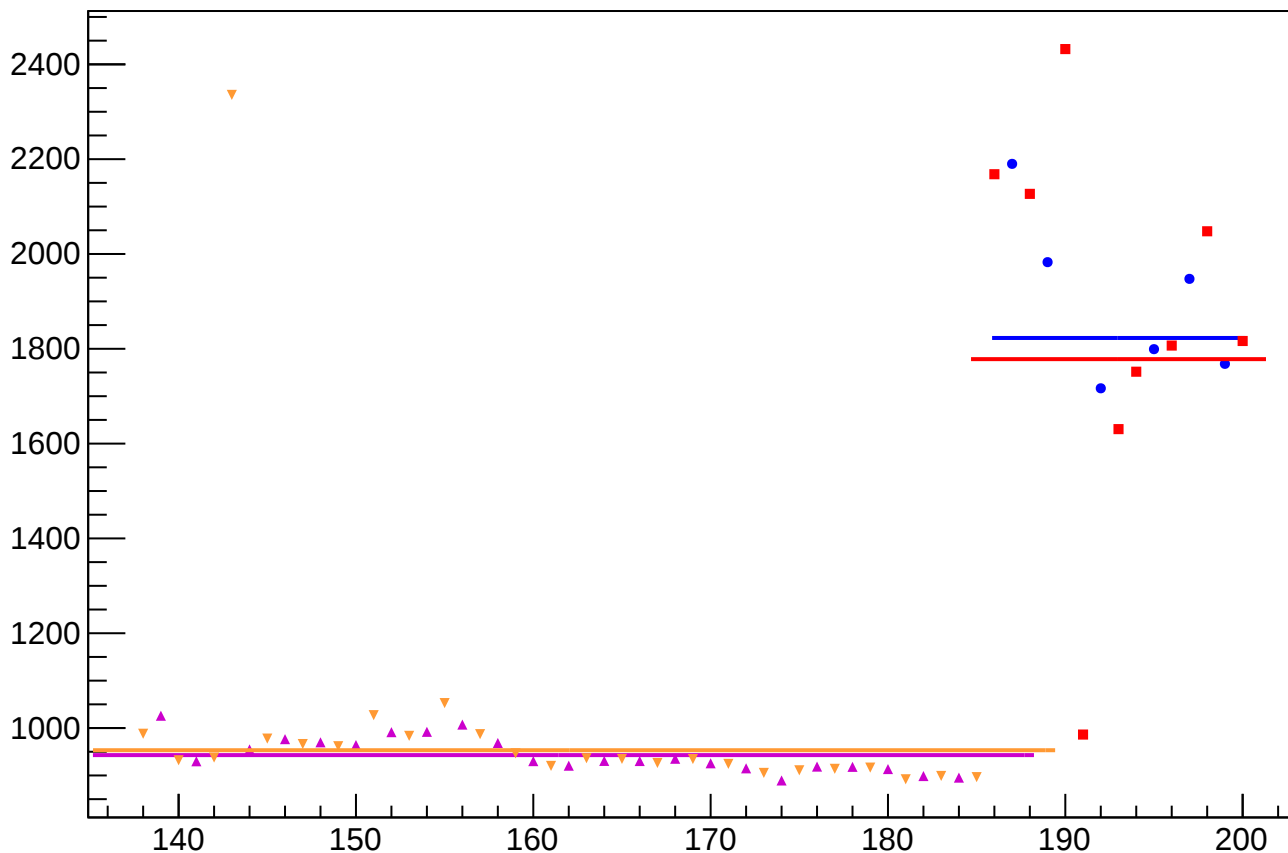
Right: 177.676 $\pm$ 583.085 χ^2 /NDF: 9.2/14

In: -124.689 $\pm$ 219.135 χ^2 /NDF:30.8/28

Out: 203.769 $\pm$ 214.327 χ^2 /NDF:42.6/33

All: 43.183 $\pm$ 153.224 χ^2 /NDF: 74.5/62

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1822.841 $\pm$ 0.652 χ^2 /NDF: 29041.2/5

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

Right Out: 1778.187 $\pm$ 0.532 χ^2 /NDF: 413740.1/8

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

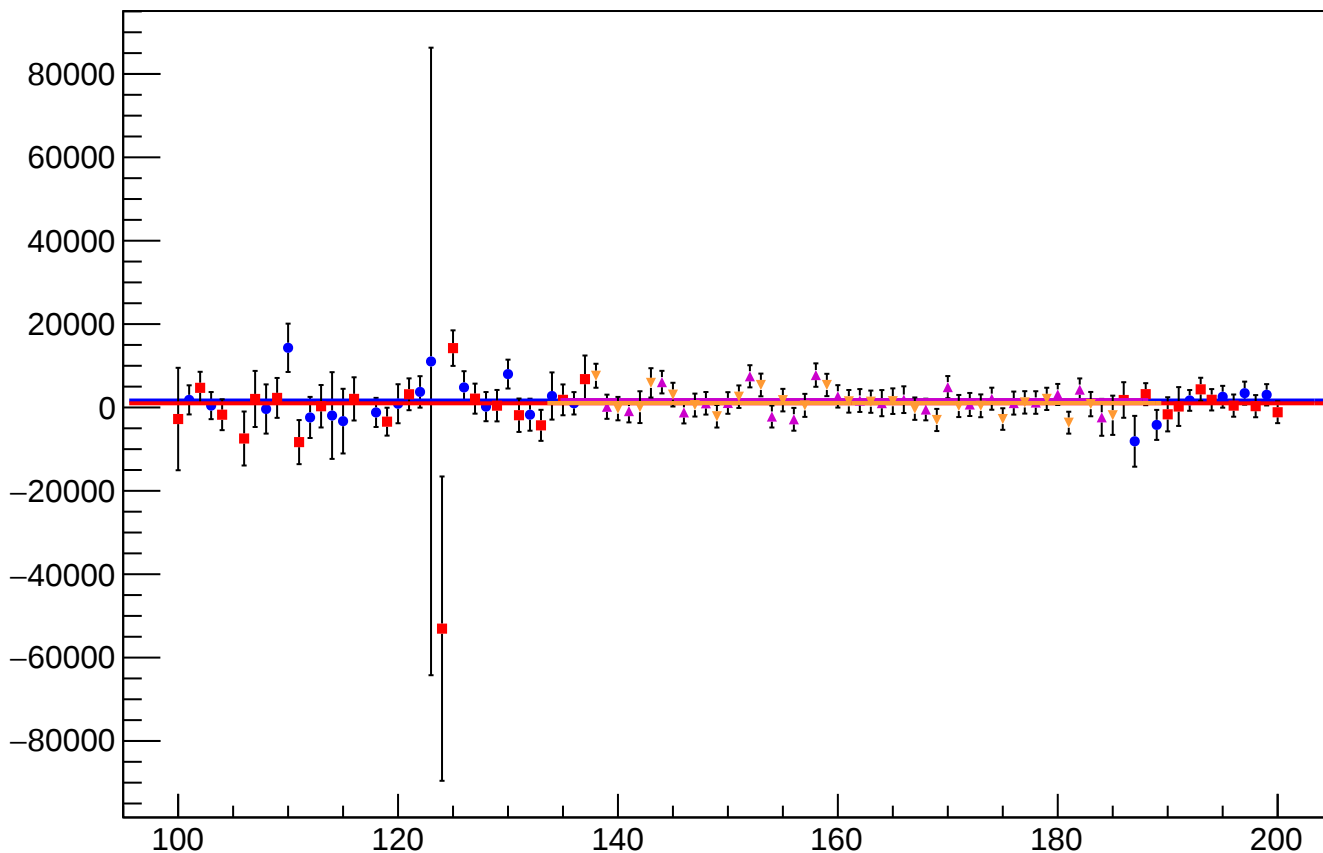
Right: 1796.049 $\pm$ 0.412 χ^2 /NDF: 445596.6/14

In: 992.639 $\pm$ 0.155 χ^2 /NDF: 1796366.6/28

Out: 1020.097 $\pm$ 0.152 χ^2 /NDF: 3227352.1/33

All: 1006.673 $\pm$ 0.108 χ^2 /NDF: 5039767.9/62

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1666.494+/-775.139 χ^2/NDF : 18.3/22

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

Right Out: 994.959+/-713.732 χ^2/NDF : 27.7/27

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

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

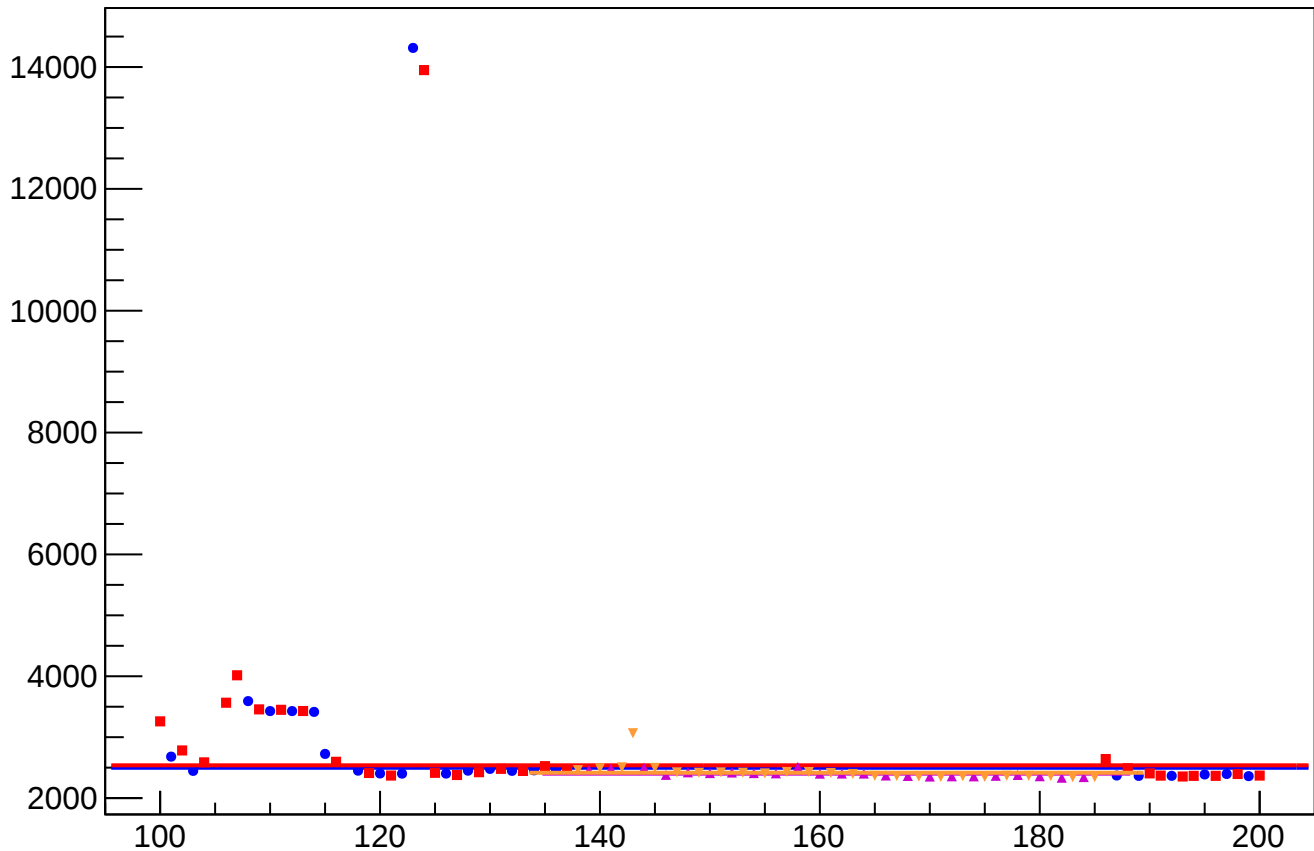
Right: 1303.076+/-525.054 χ^2/NDF : 46.4/50

In: 1737.762+/-462.274 χ^2/NDF : 42.4/45

Out: 1046.112+/-442.517 χ^2/NDF : 51.3/52

All: 1376.841+/-319.663 χ^2/NDF : 94.9/98

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2498.135+/-0.548 χ^2/NDF : 290261.0/22

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

Right Out: 2538.266+/-0.505 χ^2/NDF : 615107.8/27

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

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

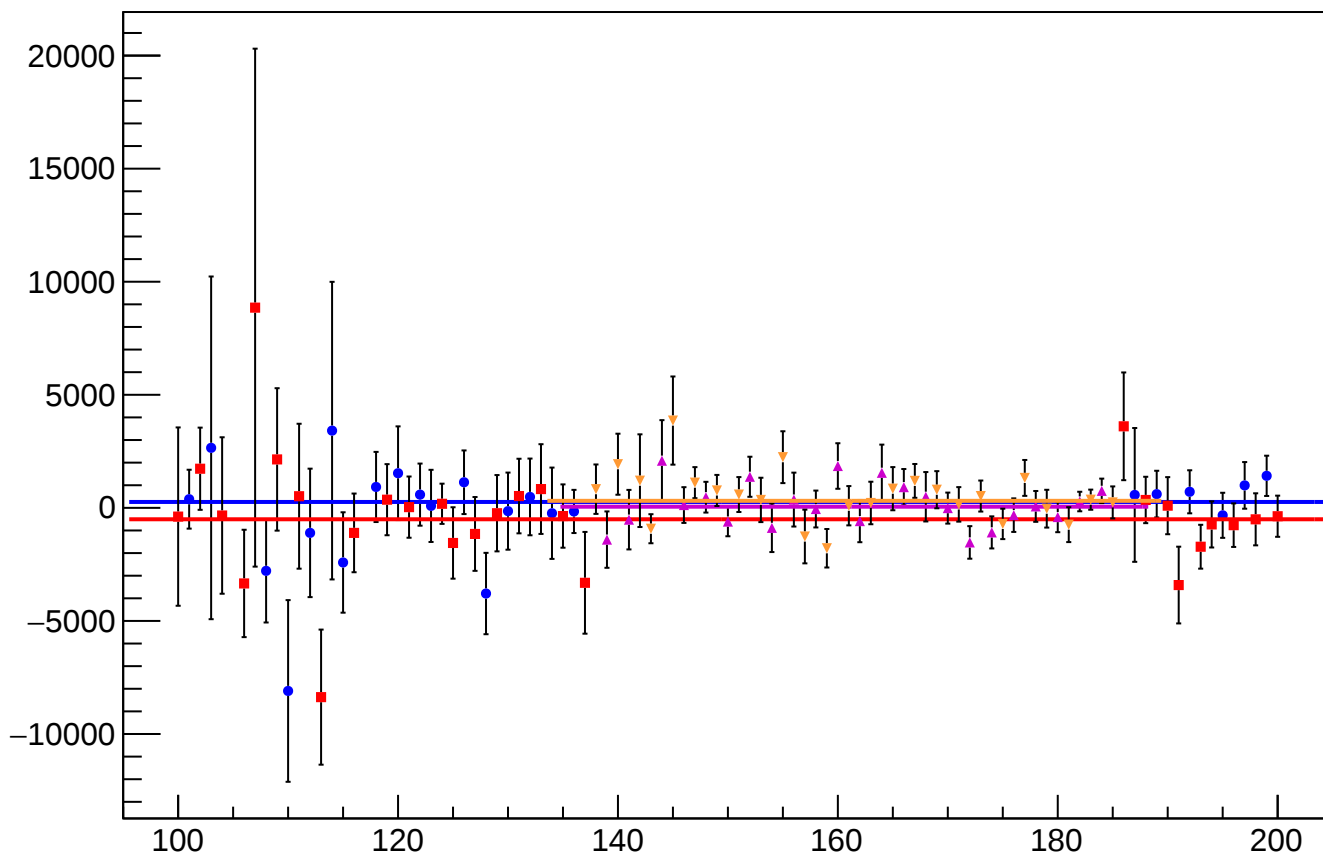
Right: 2519.853+/-0.371 χ^2/NDF : 908269.9/50

In: 2435.819+/-0.327 χ^2/NDF : 324069.8/45

Out: 2463.012+/-0.313 χ^2/NDF : 733862.0/52

All: 2450.009+/-0.226 χ^2/NDF : 1061543.1/98

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 260.988+/-301.565 χ^2/NDF : 17.4/22

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

Right Out: -504.844+/-276.123 χ^2/NDF : 24.1/27

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

Left: 182.044+/-113.982 χ^2/NDF : 54.9/47

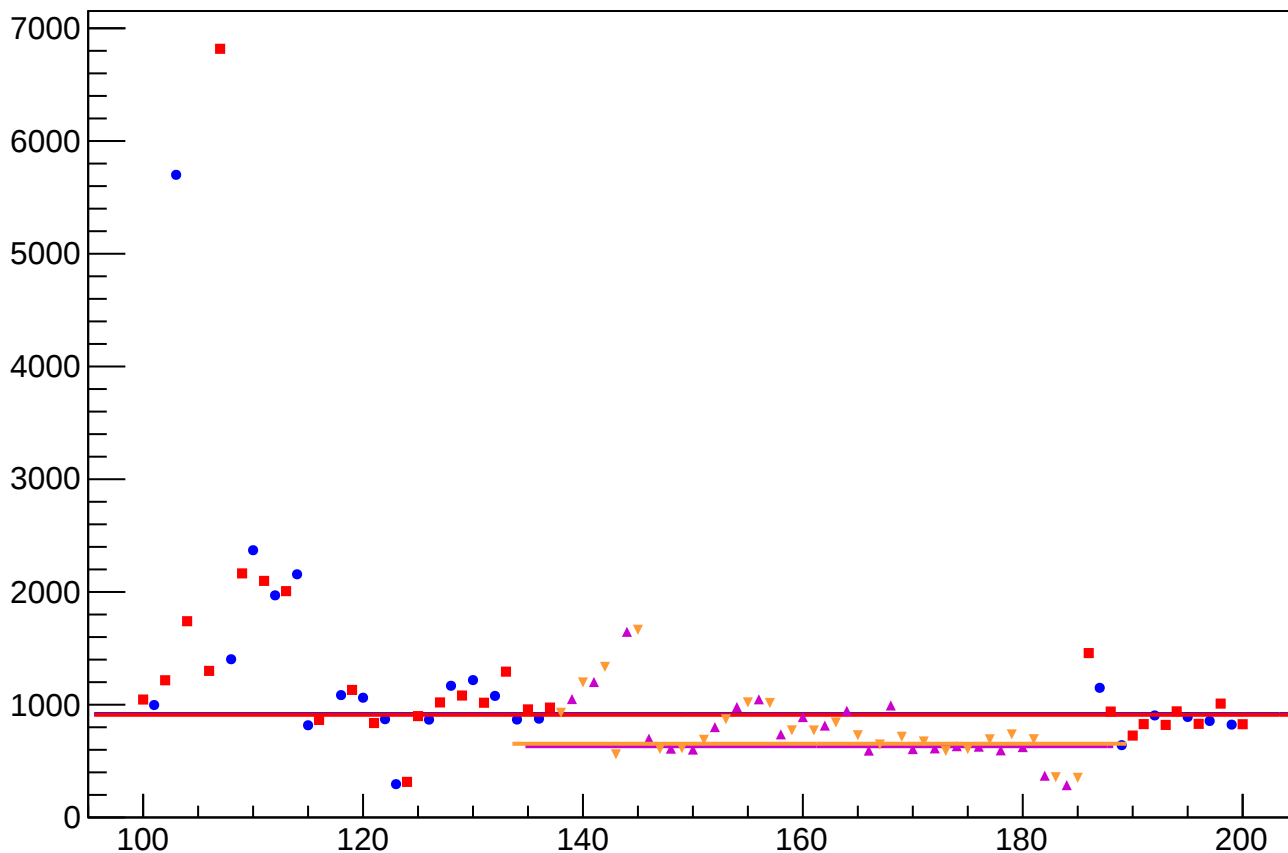
Right: -155.591+/-203.650 χ^2/NDF : 45.0/50

In: 98.264+/-142.537 χ^2/NDF : 41.6/45

Out: 104.582+/-138.858 χ^2/NDF : 60.4/52

All: 101.506+/-99.463 χ^2/NDF : 102.0/98

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 916.748 $\pm$ 0.213 χ^2 /NDF: 2158900.3/22

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

Right Out: 910.795 $\pm$ 0.195 χ^2 /NDF: 2899328.3/27

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

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

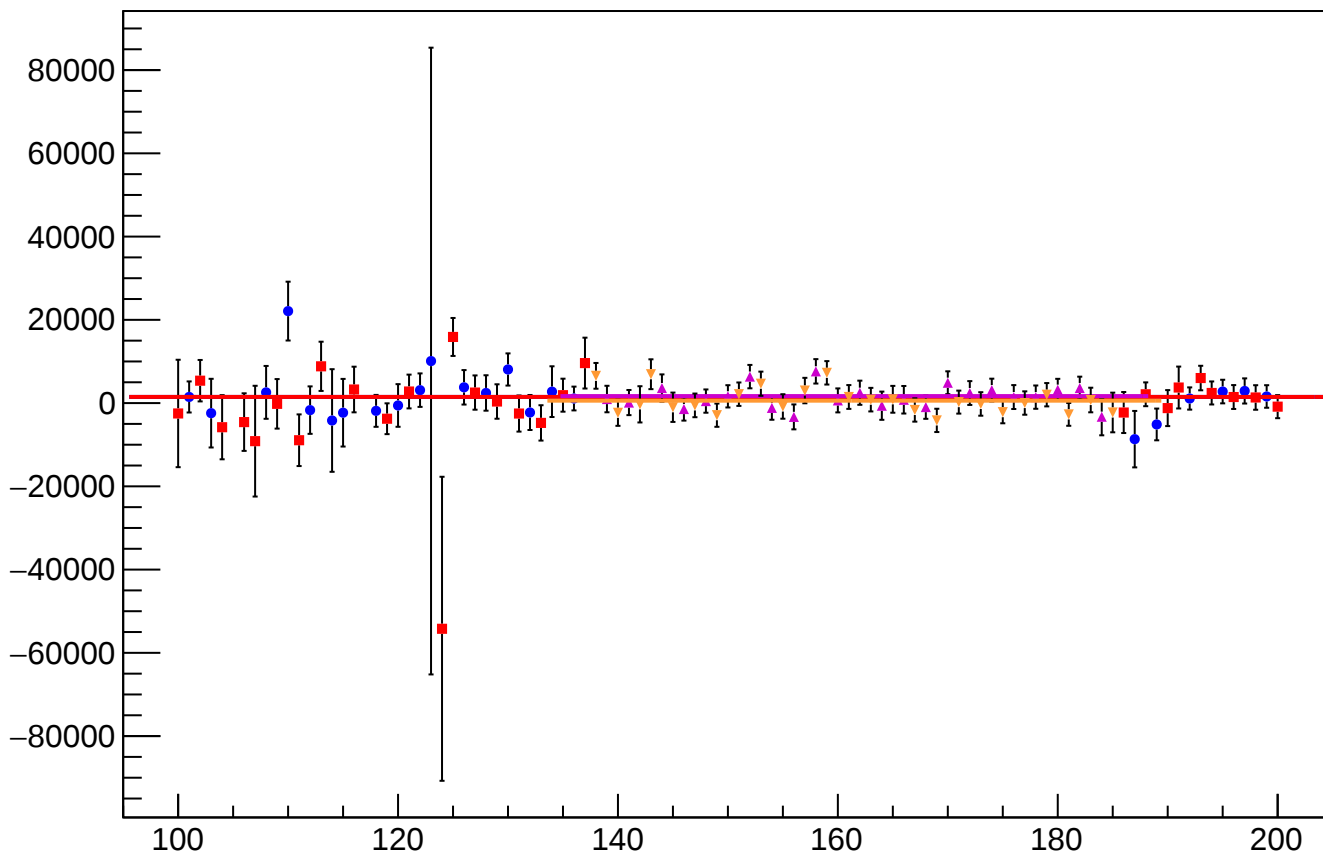
Right: 913.510 $\pm$ 0.144 χ^2 /NDF: 5058652.7/50

In: 695.655 $\pm$ 0.101 χ^2 /NDF: 7486034.5/45

Out: 718.794 $\pm$ 0.098 χ^2 /NDF: 7448354.8/52

All: 707.527 $\pm$ 0.070 χ^2 /NDF: 14961433.1/98

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1476.149 $\pm$ 863.972 χ^2 /NDF: 20.4/22

Left Out: 580.879 $\pm$ 597.173 χ^2 /NDF: 25.3/24

Right Out: 1482.049 $\pm$ 796.915 χ^2 /NDF: 31.3/27

Left In: 1679.572 $\pm$ 610.111 χ^2 /NDF: 18.2/22

Left: 1118.453 $\pm$ 426.766 χ^2 /NDF: 45.2/47

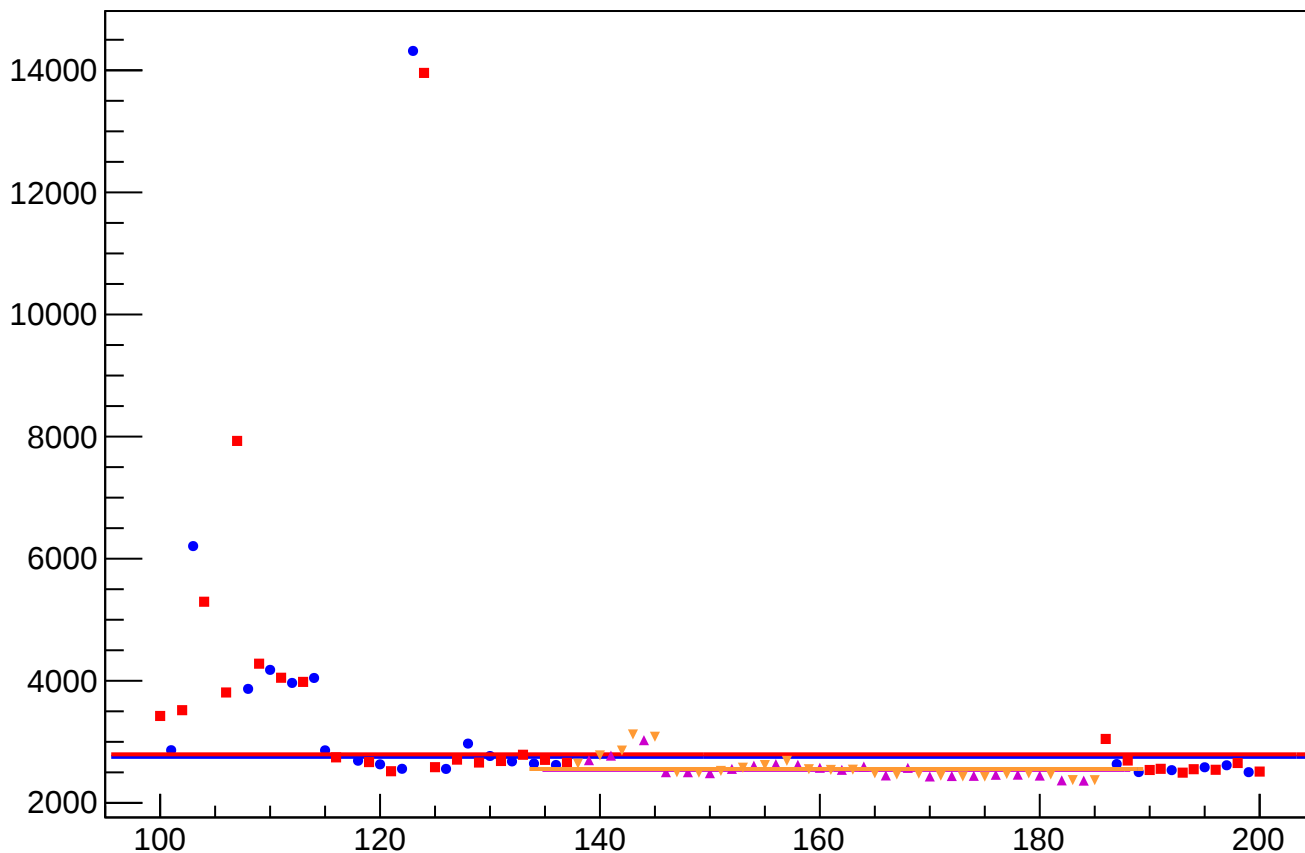
Right: 1479.336 $\pm$ 585.778 χ^2 /NDF: 51.7/50

In: 1611.884 $\pm$ 498.373 χ^2 /NDF: 38.6/45

Out: 904.944 $\pm$ 477.886 χ^2 /NDF: 57.5/52

All: 1243.585 $\pm$ 344.932 χ^2 /NDF: 97.1/98

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2754.333+/-0.611 χ^2/NDF : 727395.0/22

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

Right Out: 2795.482+/-0.564 χ^2/NDF : 1190673.1/27

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

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

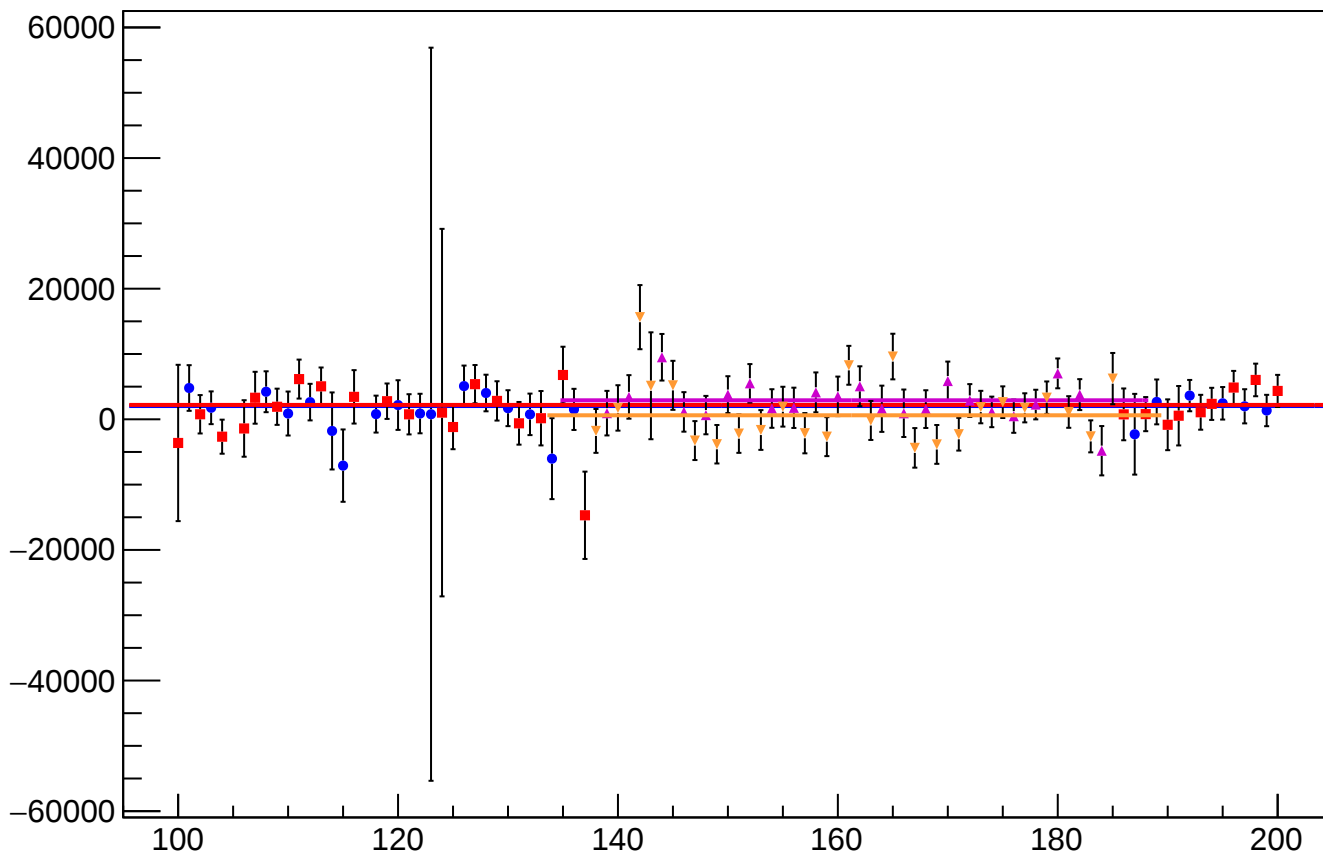
Right: 2776.566+/-0.414 χ^2/NDF : 1920519.4/50

In: 2611.977+/-0.352 χ^2/NDF :903526.2/45

Out: 2641.657+/-0.338 χ^2/NDF :1461778.7/52

All: 2627.440+/-0.244 χ^2/NDF : 2369000.4/98

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2031.149 $\pm$ 662.776 χ^2 /NDF: 9.2/22

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

Right Out: 2202.262 $\pm$ 608.290 χ^2 /NDF: 24.1/27

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

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

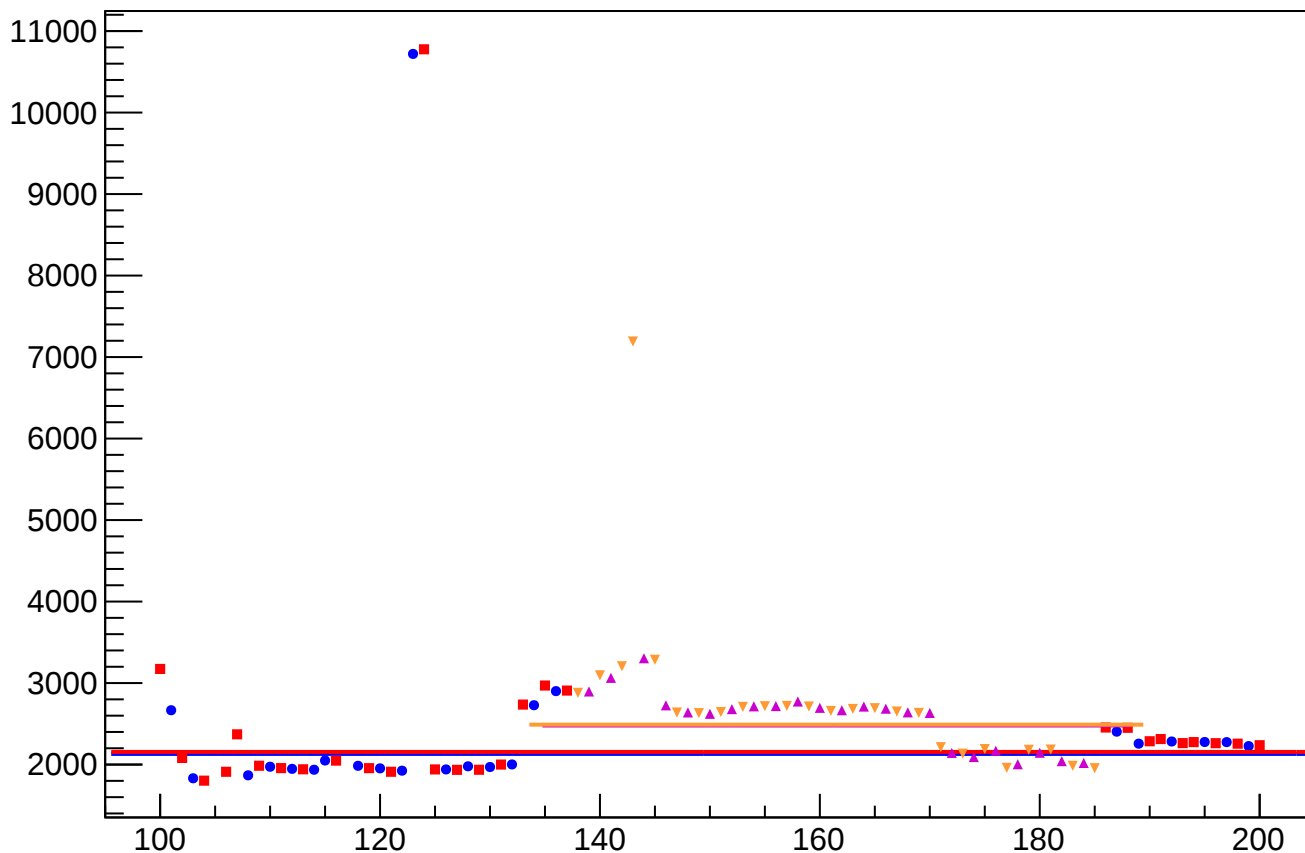
Right: 2124.027 $\pm$ 448.152 χ^2 /NDF: 33.3/50

In: 2513.903 $\pm$ 444.673 χ^2 /NDF: 27.5/45

Out: 1385.882 $\pm$ 423.935 χ^2 /NDF: 72.8/52

All: 1922.977 $\pm$ 306.837 χ^2 /NDF: 103.6/98

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2130.691+/-0.469 χ^2/NDF : 363270.4/22

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

Right Out: 2155.180+/-0.430 χ^2/NDF : 532675.0/27

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

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

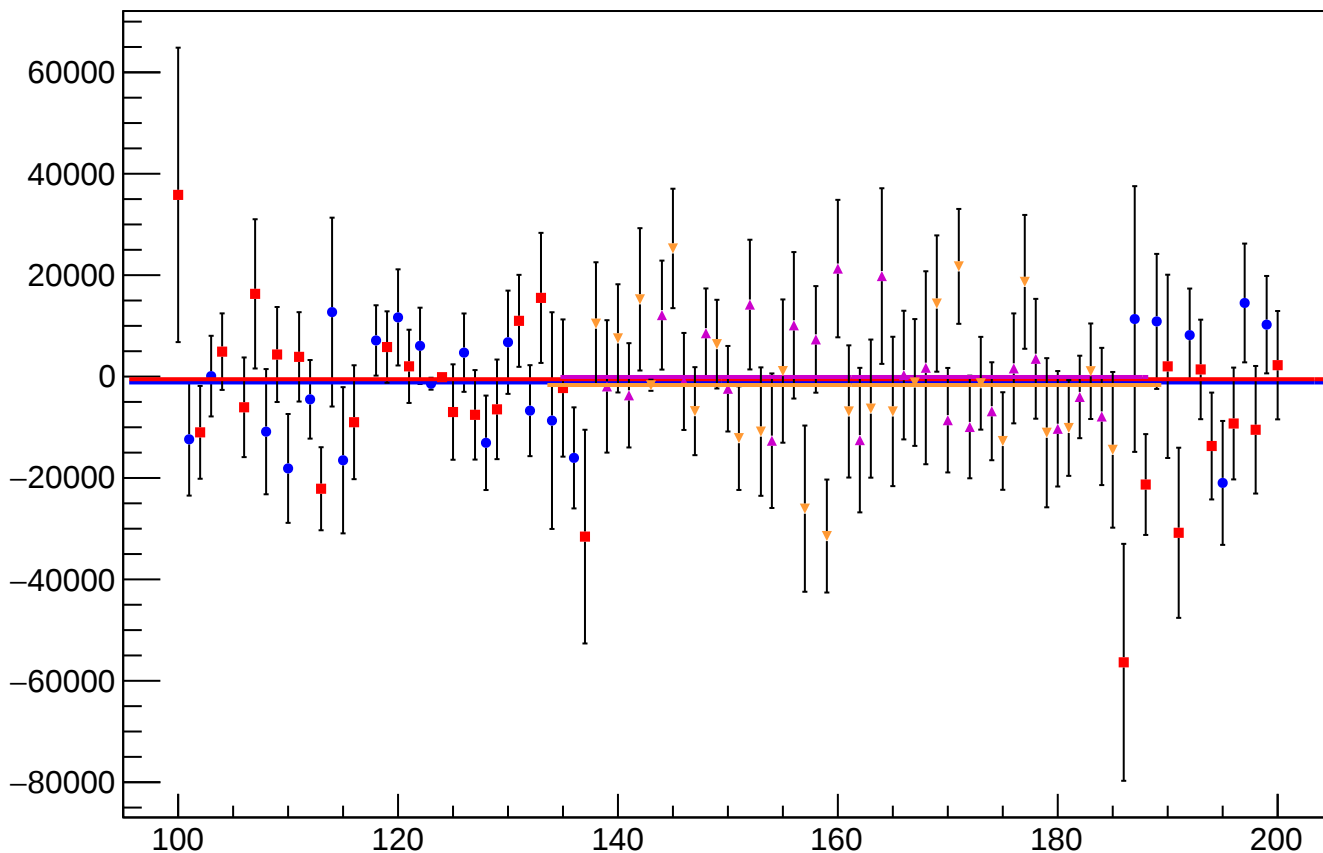
Right: 2143.984+/-0.317 χ^2/NDF : 897427.5/50

In: 2322.404+/-0.314 χ^2/NDF : 1335999.1/45

Out: 2327.156+/-0.300 χ^2/NDF : 2207720.3/52

All: 2324.893+/-0.217 χ^2/NDF : 3543839.1/98

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1163.959+/-1029.878 χ^2/NDF : 23.7/22

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

Right Out: -520.449+/-685.264 χ^2/NDF : 37.4/27

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

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

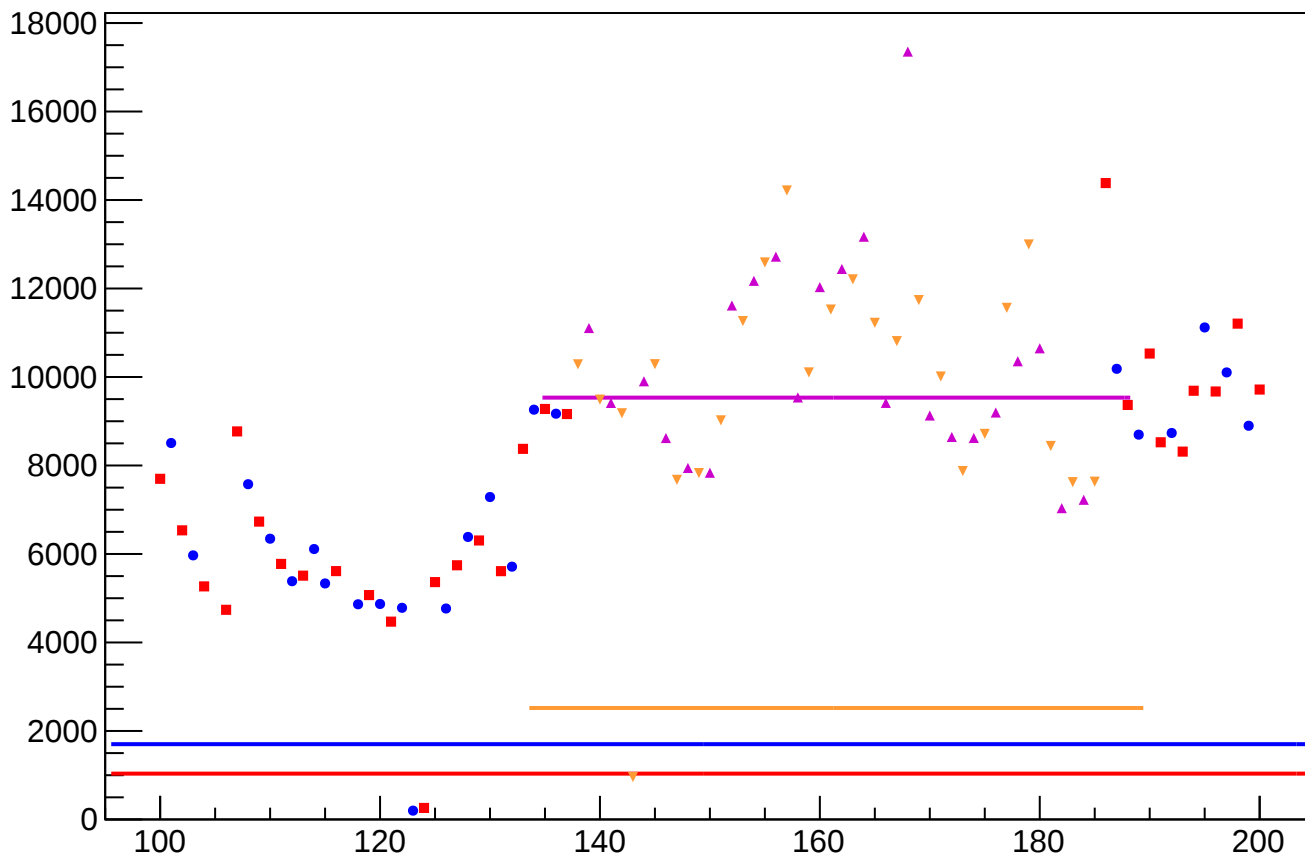
Right: -717.925+/-570.512 χ^2/NDF : 61.4/50

In: -987.037+/-942.065 χ^2/NDF : 37.7/45

Out: -889.784+/-564.013 χ^2/NDF : 70.7/52

All: -915.446+/-483.915 χ^2/NDF : 108.4/98

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1701.572+/-0.728

χ^2/NDF : 15556632.4/22

Left: 3596.432+/-0.646 χ^2/NDF : 40280305.8/47

Right: 1240.040+/-0.403 χ^2/NDF : 37124505.0/50

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 2980.223+/-0.666 χ^2/NDF : 35756770.8/45

Right Out: 1035.704+/-0.485

χ^2/NDF : 20988378.9/27

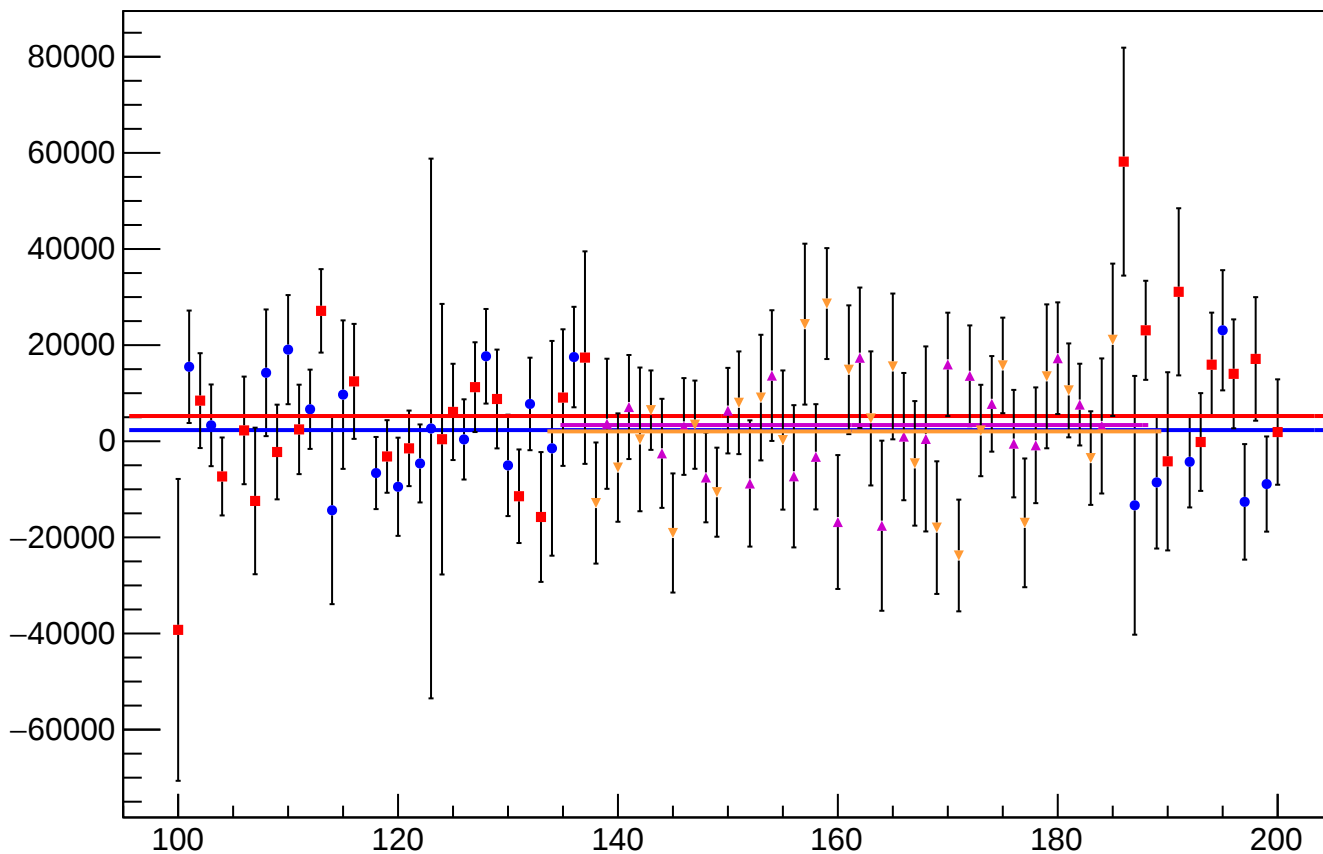
Out: 1514.290+/-0.399 χ^2/NDF : 47654676.8/52

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 1901.093+/-0.342 χ^2/NDF : 86976414.4/95

asym_atl2_mean vs Slug, Sign Corrected



Right In: 2322.976 $\pm$ 2259.372 χ^2 /NDF: 21.5/22

Left Out: 2055.950 $\pm$ 2333.494 χ^2 /NDF:30.7/24

Right Out: 5250.615 $\pm$ 2096.446 χ^2 /NDF: 34.8/27

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

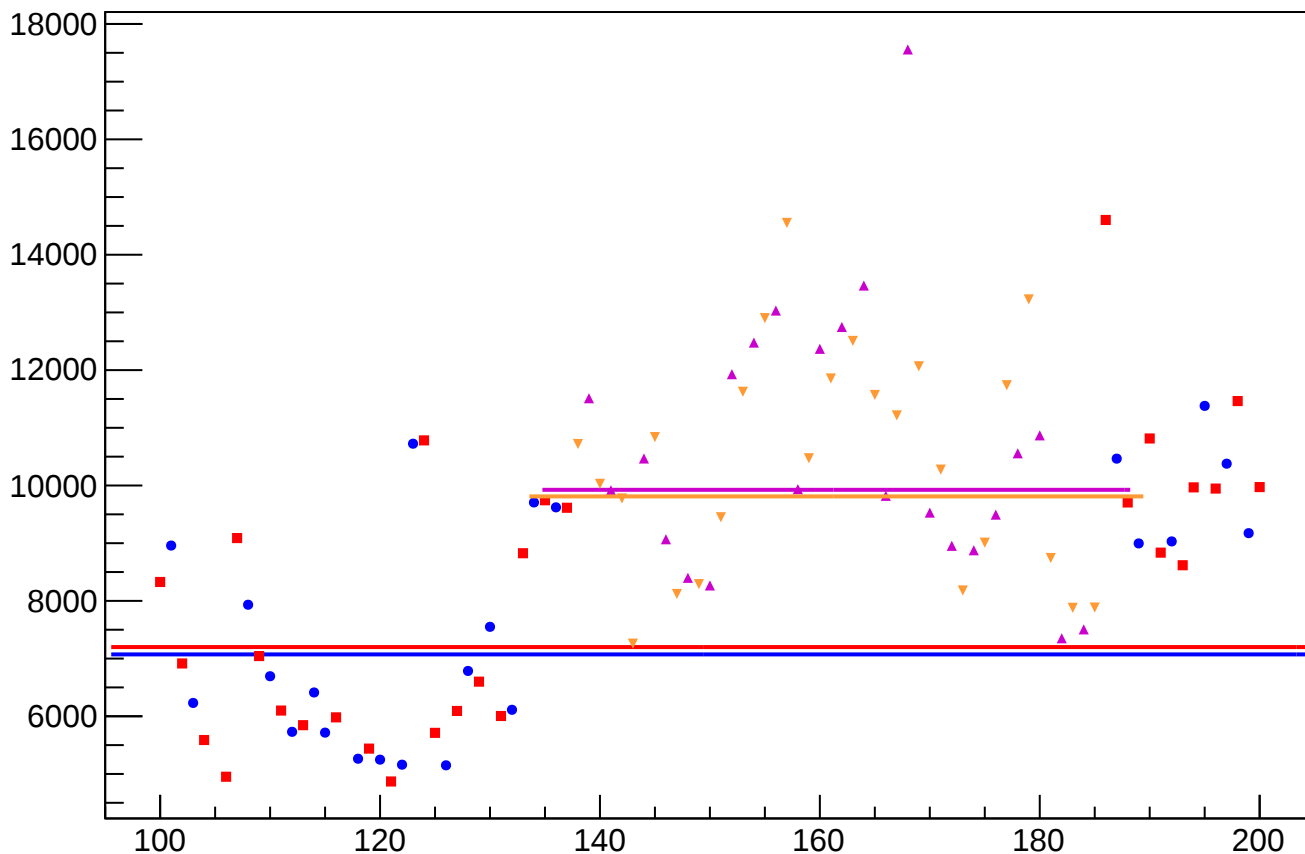
Right: 3896.148 $\pm$ 1536.785 χ^2 /NDF: 57.2/50

In: 2810.790 $\pm$ 1652.515 χ^2 /NDF:34.7/45

Out: 3823.742 $\pm$ 1559.505 χ^2 /NDF:66.6/52

All: 3346.573 $\pm$ 1134.193 χ^2 /NDF: 101.5/98

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7072.246+/-1.598

χ^2/NDF : 1365546.3/22

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

Right: 7140.578+/-1.087 χ^2/NDF : 3246266.2/50

Left Out: 9811.053+/-1.650

χ^2/NDF : 1213831.0/24

In: 8399.064+/-1.169 χ^2/NDF : 4060248.2/45

Right Out: 7199.406+/-1.482

χ^2/NDF : 1877315.5/27

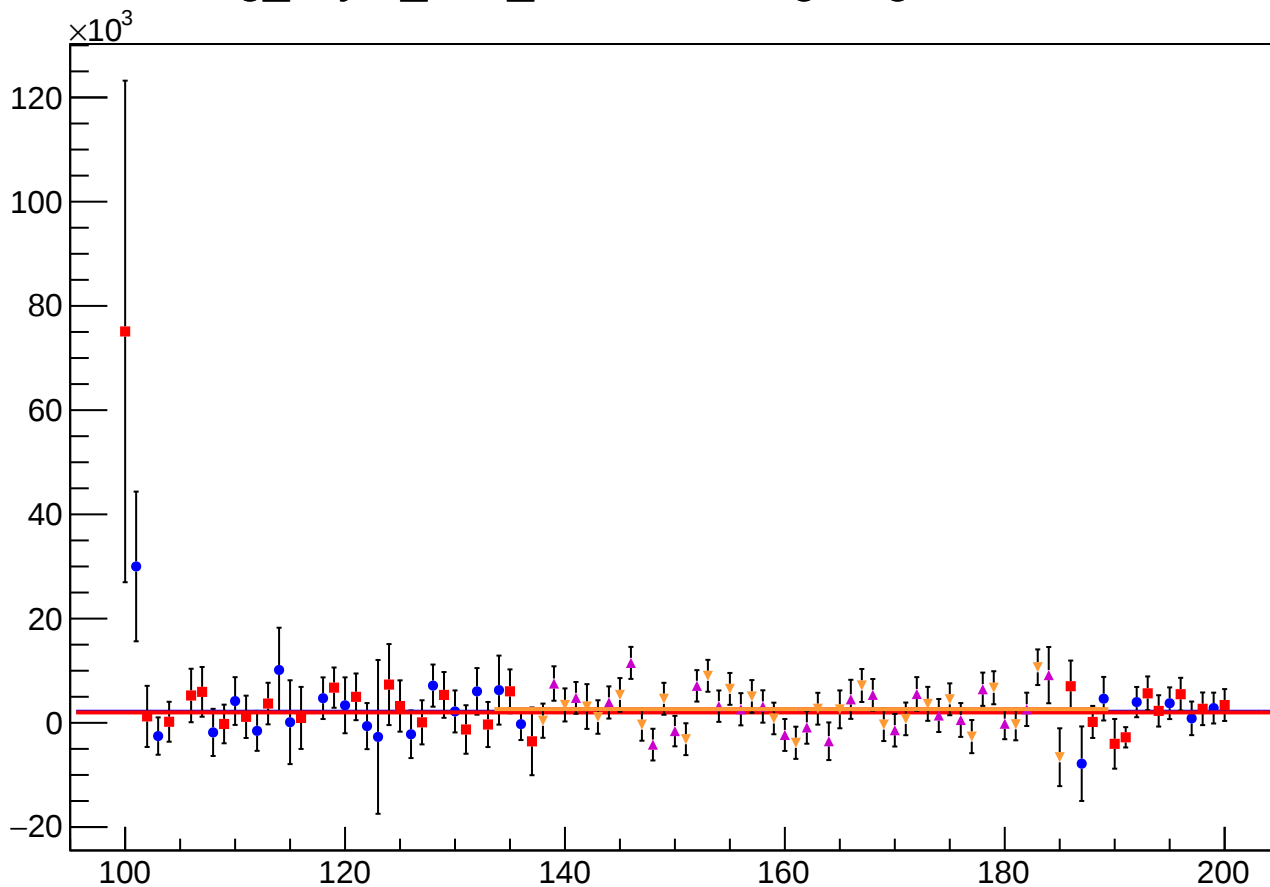
Out: 8365.834+/-1.103 χ^2/NDF : 4477469.7/52

Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

All: 8381.487+/-0.802 χ^2/NDF : 8538145.7/98

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2131.587 ± 878.645 $\chi^2/\text{NDF}: 16.8/22$

Left Out: 2635.833 ± 646.121 $\chi^2/\text{NDF}: 35.1/24$

Right Out: 1994.987 ± 737.926 $\chi^2/\text{NDF}: 21.8/27$

Left In: 2638.607 ± 664.569 $\chi^2/\text{NDF}: 35.2/22$

Left: 2637.181 ± 463.261 $\chi^2/\text{NDF}: 70.3/47$

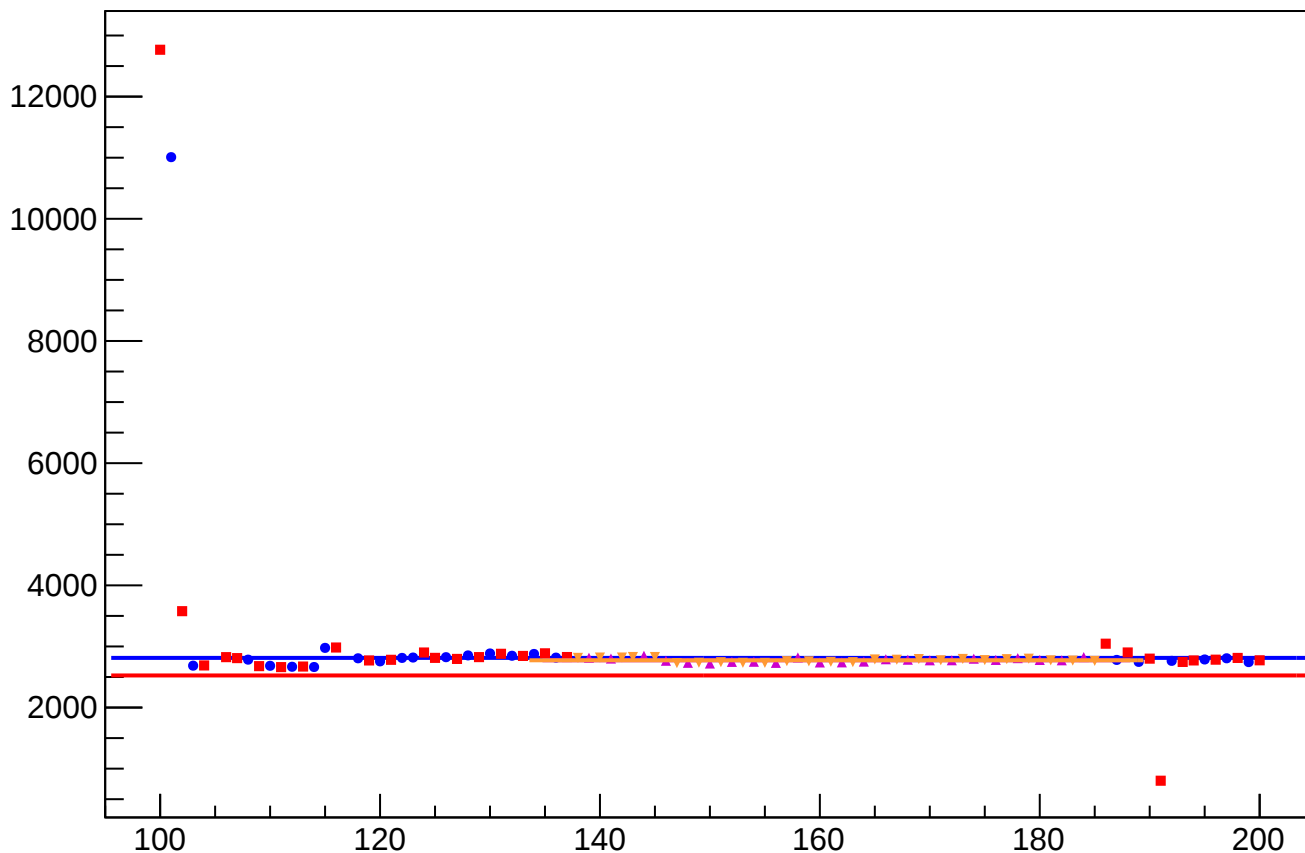
Right: 2051.486 ± 565.076 $\chi^2/\text{NDF}: 38.5/50$

In: 2454.103 ± 530.034 $\chi^2/\text{NDF}: 52.2/45$

Out: 2357.732 ± 486.113 $\chi^2/\text{NDF}: 57.2/52$

All: 2401.760 ± 358.257 $\chi^2/\text{NDF}: 109.4/98$

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2812.893+/-0.621 χ^2/NDF : 663631.9/22

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

Right Out: 2525.364+/-0.522 χ^2/NDF : 1967513.0/27

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

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

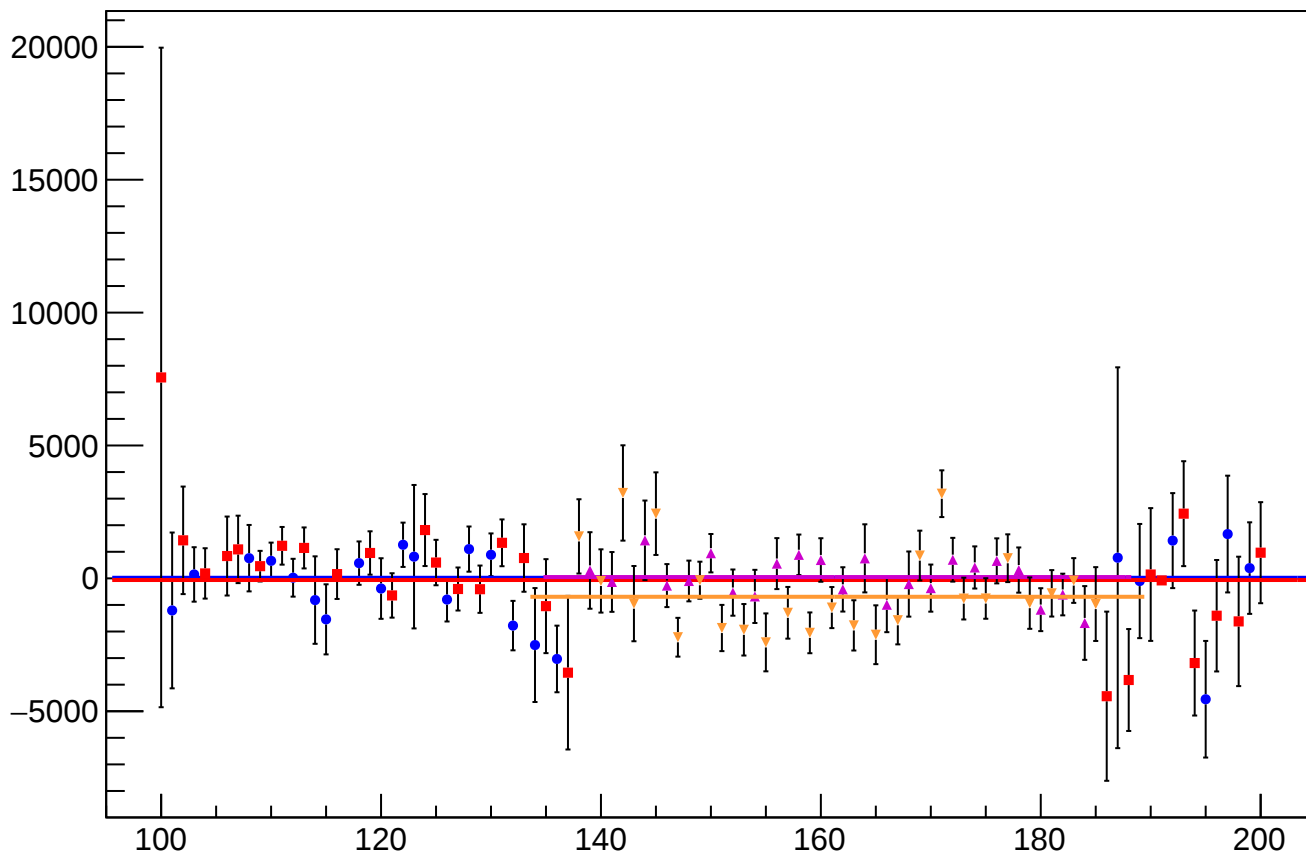
Right: 2644.288+/-0.400 χ^2/NDF : 2756734.6/50

In: 2788.176+/-0.375 χ^2/NDF : 671105.2/45

Out: 2665.940+/-0.344 χ^2/NDF : 2100356.1/52

All: 2721.784+/-0.253 χ^2/NDF : 2829235.8/98

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: 22.208 ± 233.682 $\chi^2/\text{NDF}: 26.4/22$

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

Right Out: -62.488 ± 37.893 $\chi^2/\text{NDF}: 29.5/27$

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

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

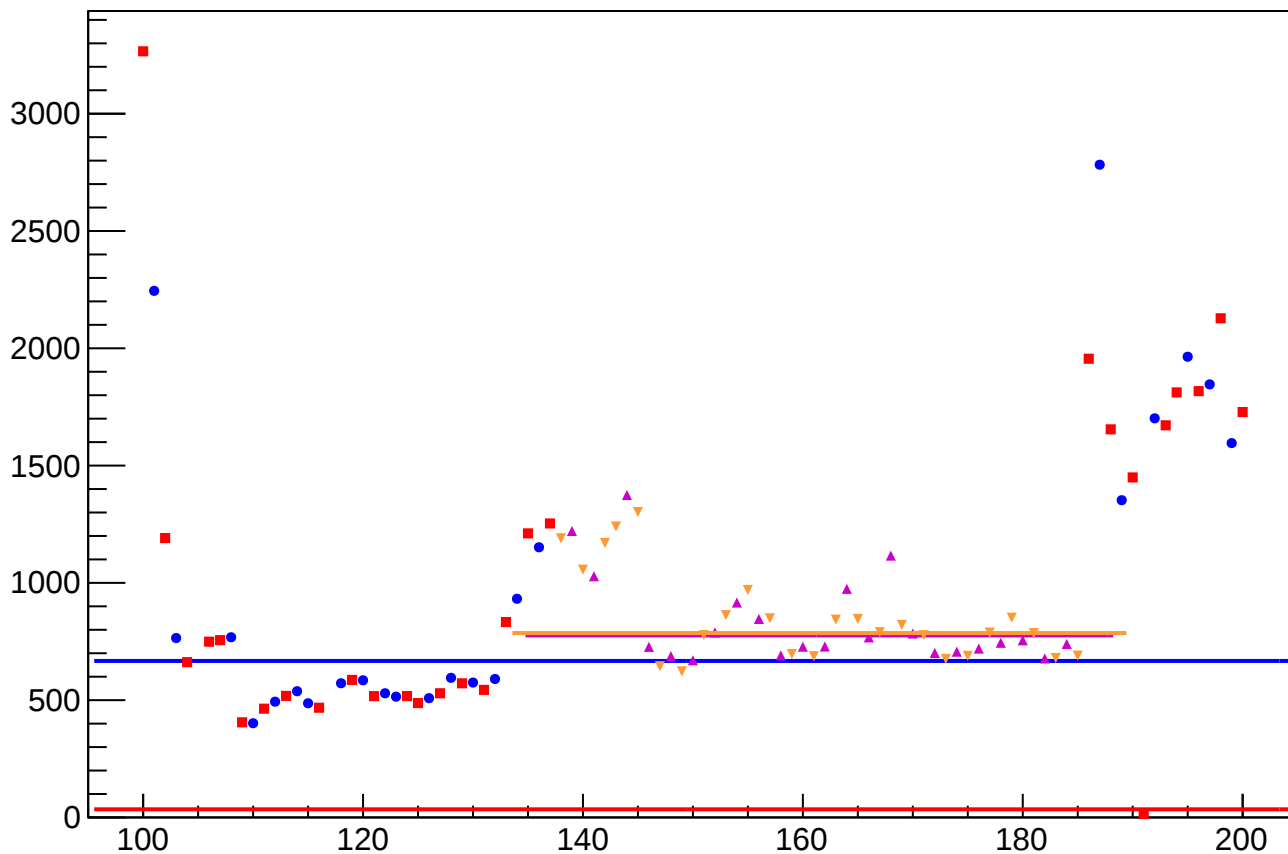
Right: -60.318 ± 37.404 $\chi^2/\text{NDF}: 56.0/50$

In: 38.539 ± 147.041 $\chi^2/\text{NDF}: 40.0/45$

Out: -87.274 ± 37.141 $\chi^2/\text{NDF}: 96.4/52$

All: -79.728 ± 36.010 $\chi^2/\text{NDF}: 137.1/98$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 667.165+/-0.165

χ^2/NDF : 4539015.7/22

Left Out: 786.173+/-0.132

χ^2/NDF :1249536.1/24

Right Out: 34.718+/-0.027

χ^2/NDF : 22970169.5/27

Left In: 775.930+/-0.134

χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094

χ^2/NDF : 2309263.4/47

Right: 50.922+/-0.026

χ^2/NDF : 41783478.1/50

In: 732.866+/-0.104

χ^2/NDF :5857502.1/45

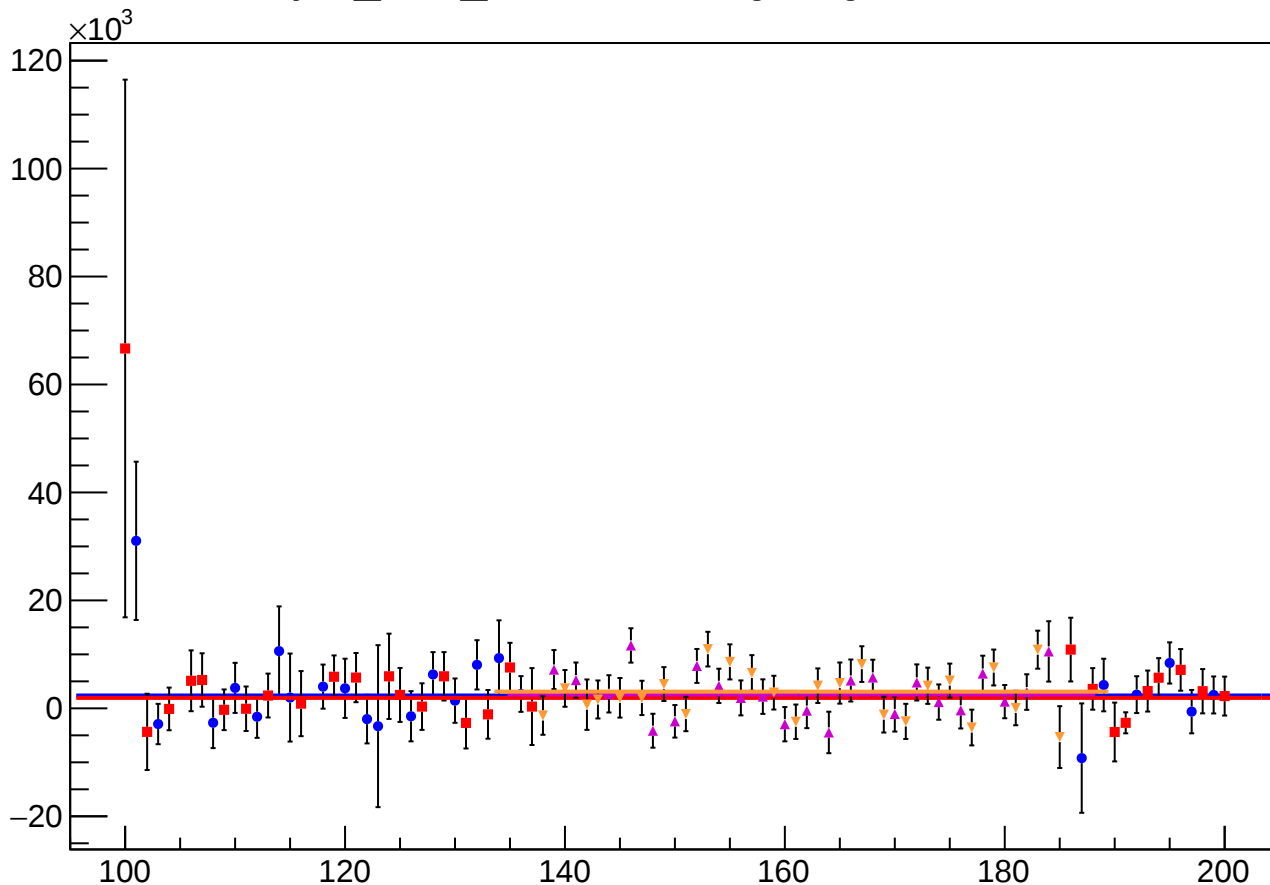
Out: 64.267+/-0.026

χ^2/NDF :55147650.3/52

All: 104.365+/-0.025

χ^2/NDF : 99876047.3/98

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2381.538 $\pm$ 958.930 χ^2 /NDF: 19.1/22

Left Out: 3094.826 $\pm$ 678.510 χ^2 /NDF:38.7/24

Right Out: 1936.801 $\pm$ 803.453 χ^2 /NDF: 22.5/27

Left In: 2573.184 $\pm$ 695.795 χ^2 /NDF:35.7/22

Left: 2840.565 $\pm$ 485.775 χ^2 /NDF: 74.6/47

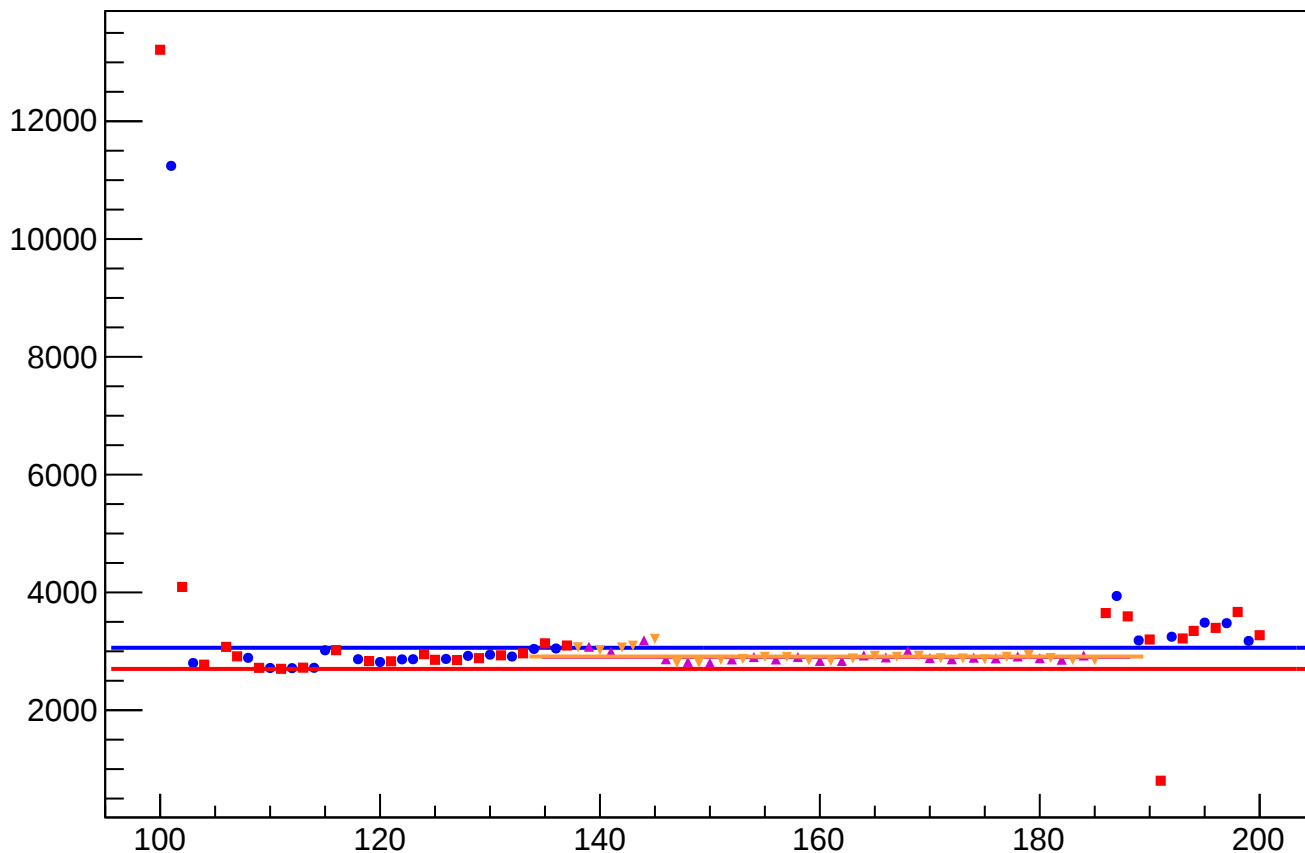
Right: 2120.238 $\pm$ 615.855 χ^2 /NDF: 41.7/50

In: 2507.085 $\pm$ 563.163 χ^2 /NDF:54.8/45

Out: 2612.756 $\pm$ 518.390 χ^2 /NDF:62.4/52

All: 2564.288 $\pm$ 381.405 χ^2 /NDF: 117.2/98

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3060.046+/-0.678 χ^2/NDF : 758078.1/22

Left Out: 2911.226+/-0.480 χ^2/NDF : 36644.3/24

Right Out: 2701.219+/-0.568 χ^2/NDF : 2635862.1/27

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

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

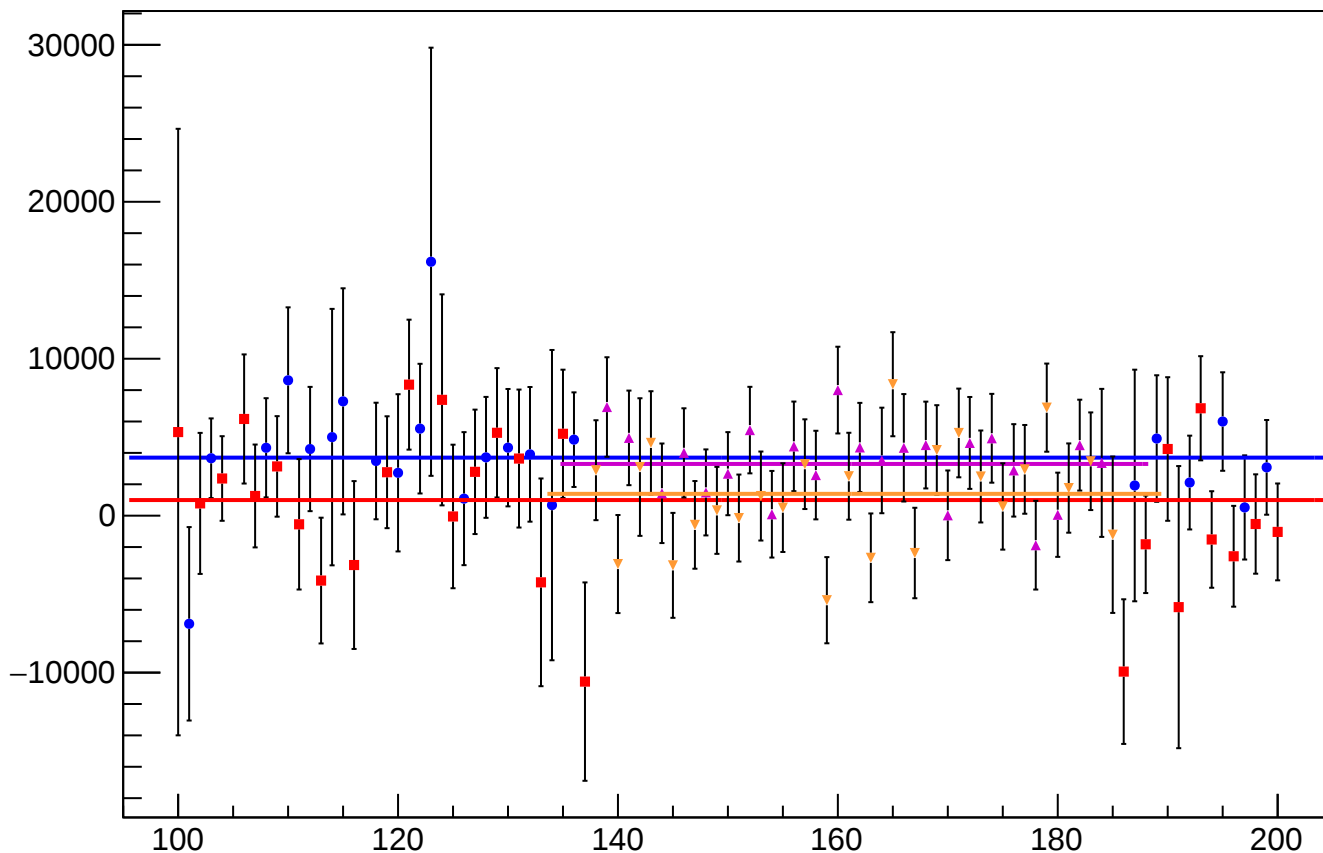
Right: 2849.221+/-0.435 χ^2/NDF : 3558476.3/50

In: 2957.434+/-0.398 χ^2/NDF : 821874.0/45

Out: 2823.803+/-0.367 χ^2/NDF : 2752264.5/52

All: 2885.096+/-0.270 χ^2/NDF : 3635097.4/98

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3698.181+/-825.985 χ^2/NDF : 8.1/22

Left Out: 1390.275+/-596.516 χ^2/NDF : 29.2/24

Right Out: 994.639+/-746.841 χ^2/NDF : 29.0/27

Left In: 3295.367+/-609.991 χ^2/NDF : 14.9/22

Left: 2321.546+/-426.485 χ^2/NDF : 49.0/47

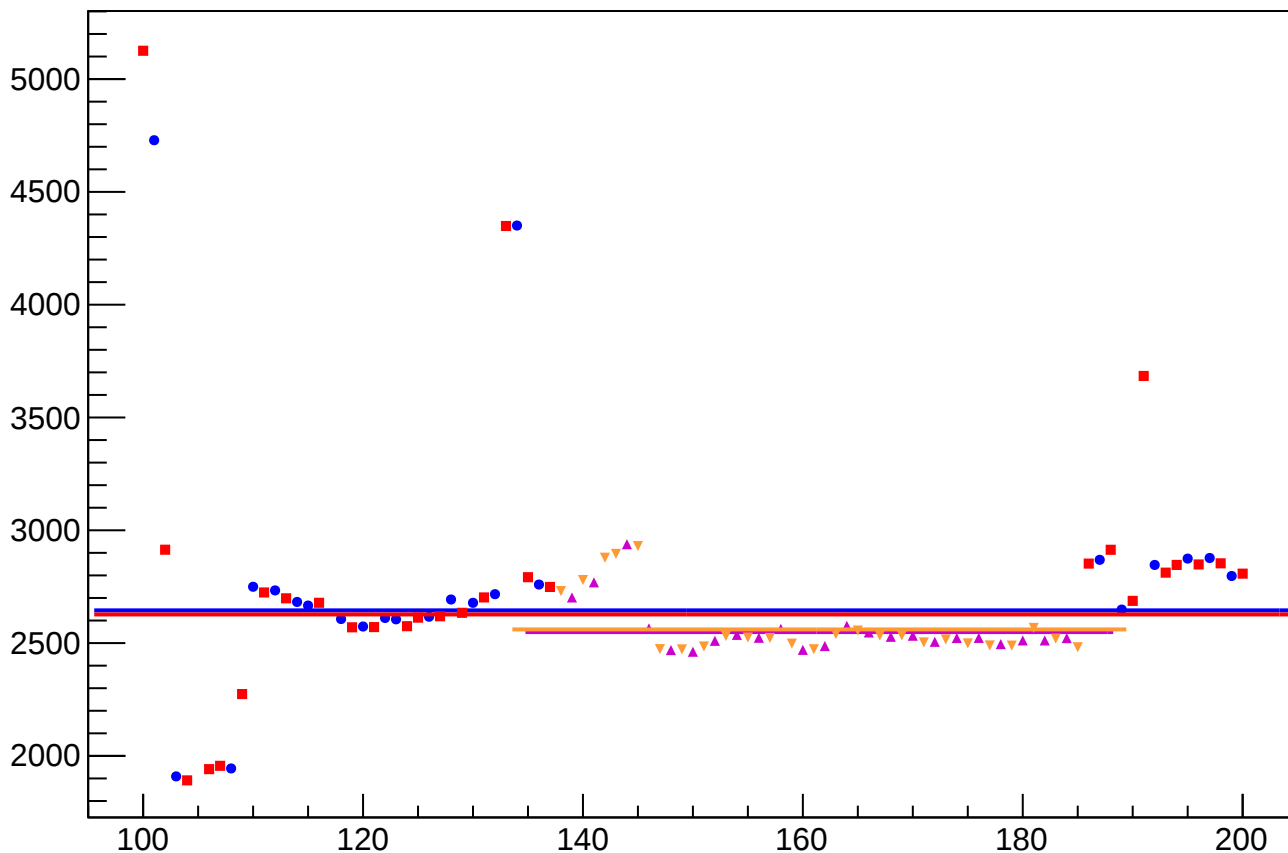
Right: 2210.712+/-553.969 χ^2/NDF : 42.9/50

In: 3437.525+/-490.688 χ^2/NDF : 23.1/45

Out: 1236.182+/-466.092 χ^2/NDF : 58.3/52

All: 2280.301+/-337.938 χ^2/NDF : 92.0/98

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2645.063 $\pm$ 0.584 χ^2 /NDF: 598215.8/22

Left Out: 2560.531 $\pm$ 0.422 χ^2 /NDF:86771.4/24

Right Out: 2626.995 $\pm$ 0.528 χ^2 /NDF: 590045.1/27

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

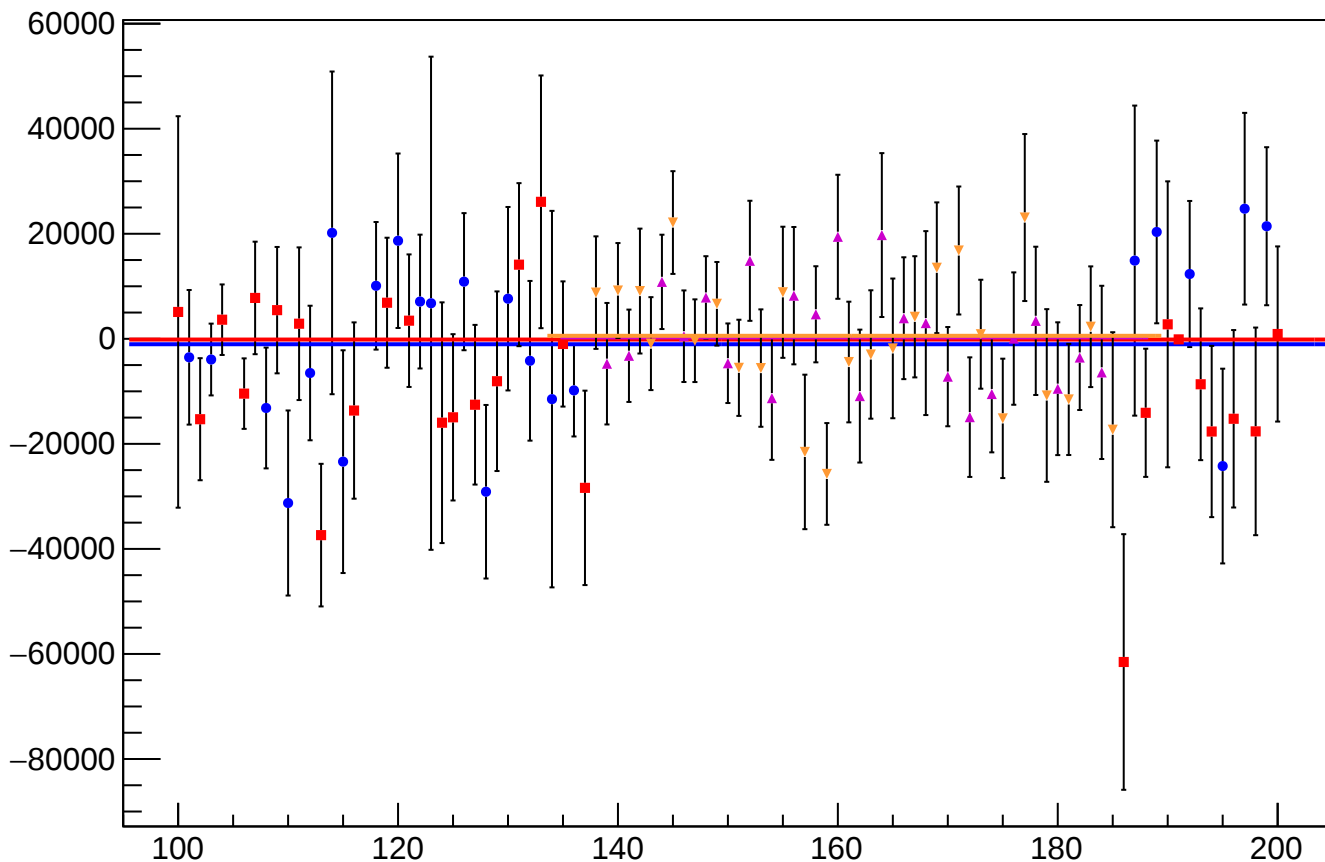
Right: 2635.122 $\pm$ 0.392 χ^2 /NDF: 1188787.5/50

In: 2582.818 $\pm$ 0.347 χ^2 /NDF:671034.5/45

Out: 2586.418 $\pm$ 0.330 χ^2 /NDF:686486.8/52

All: 2584.710 $\pm$ 0.239 χ^2 /NDF: 1357577.9/98

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -1033.695 $\pm$ 2941.690 χ^2 /NDF: 22.3/22

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

Right Out: -139.792 $\pm$ 194.991 χ^2 /NDF: 31.2/27

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

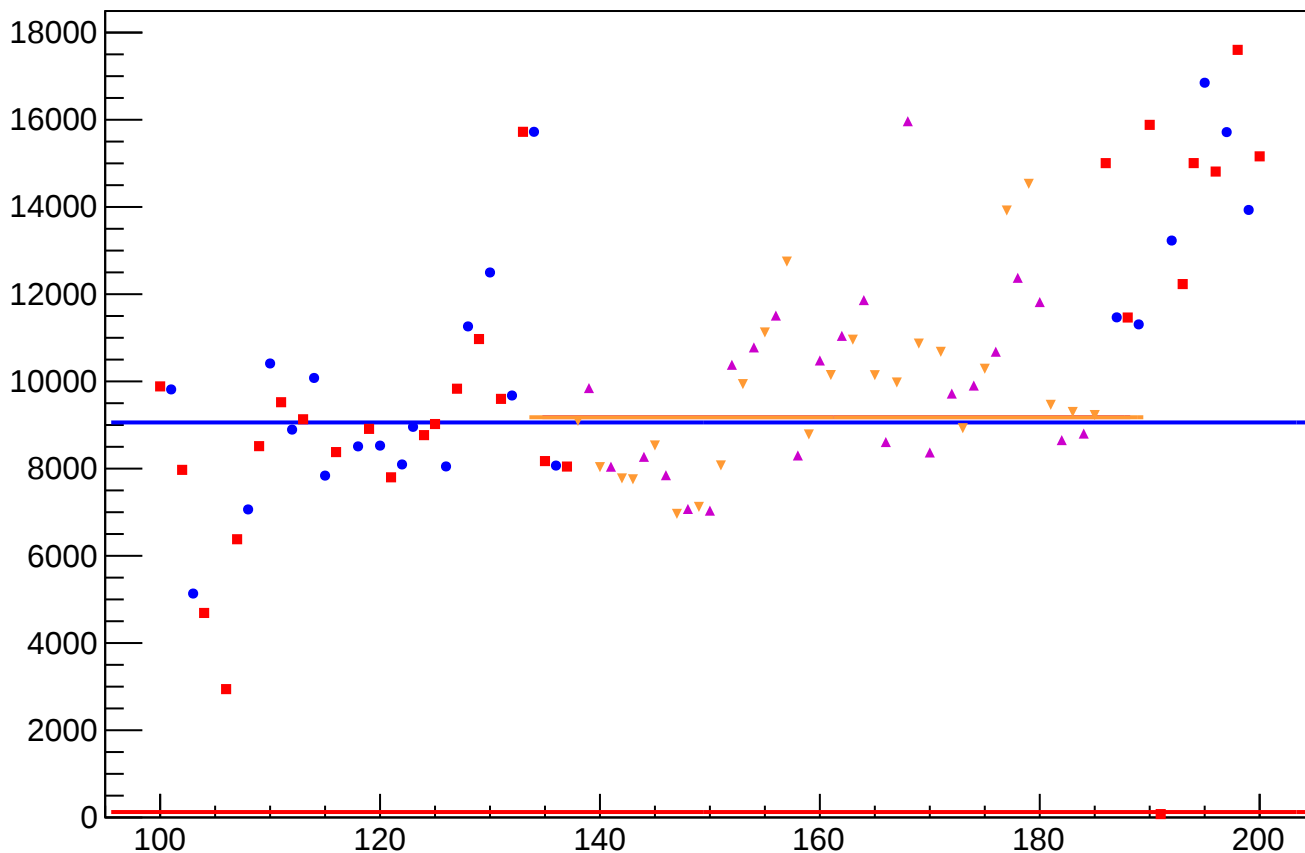
Right: -143.703 $\pm$ 194.564 χ^2 /NDF: 53.6/50

In: -206.015 $\pm$ 1783.570 χ^2 /NDF:38.2/45

Out: -134.161 $\pm$ 194.218 χ^2 /NDF:59.5/52

All: -135.003 $\pm$ 193.077 χ^2 /NDF: 97.7/98

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9058.590 $\pm$ 2.080

χ^2 /NDF: 2043988.5/22

Left: 9179.424 $\pm$ 1.107

χ^2 /NDF: 2412668.1/47

Left Out: 9177.688 $\pm$ 1.545

χ^2 /NDF: 1176195.8/24

Right: 163.312 $\pm$ 0.138

χ^2 /NDF: 44780931.5/50

Right Out: 124.229 $\pm$ 0.138

χ^2 /NDF: 24369058.8/27

In: 9136.162 $\pm$ 1.261

χ^2 /NDF: 3282657.4/45

Out: 195.800 $\pm$ 0.137

χ^2 /NDF: 59629787.4/52

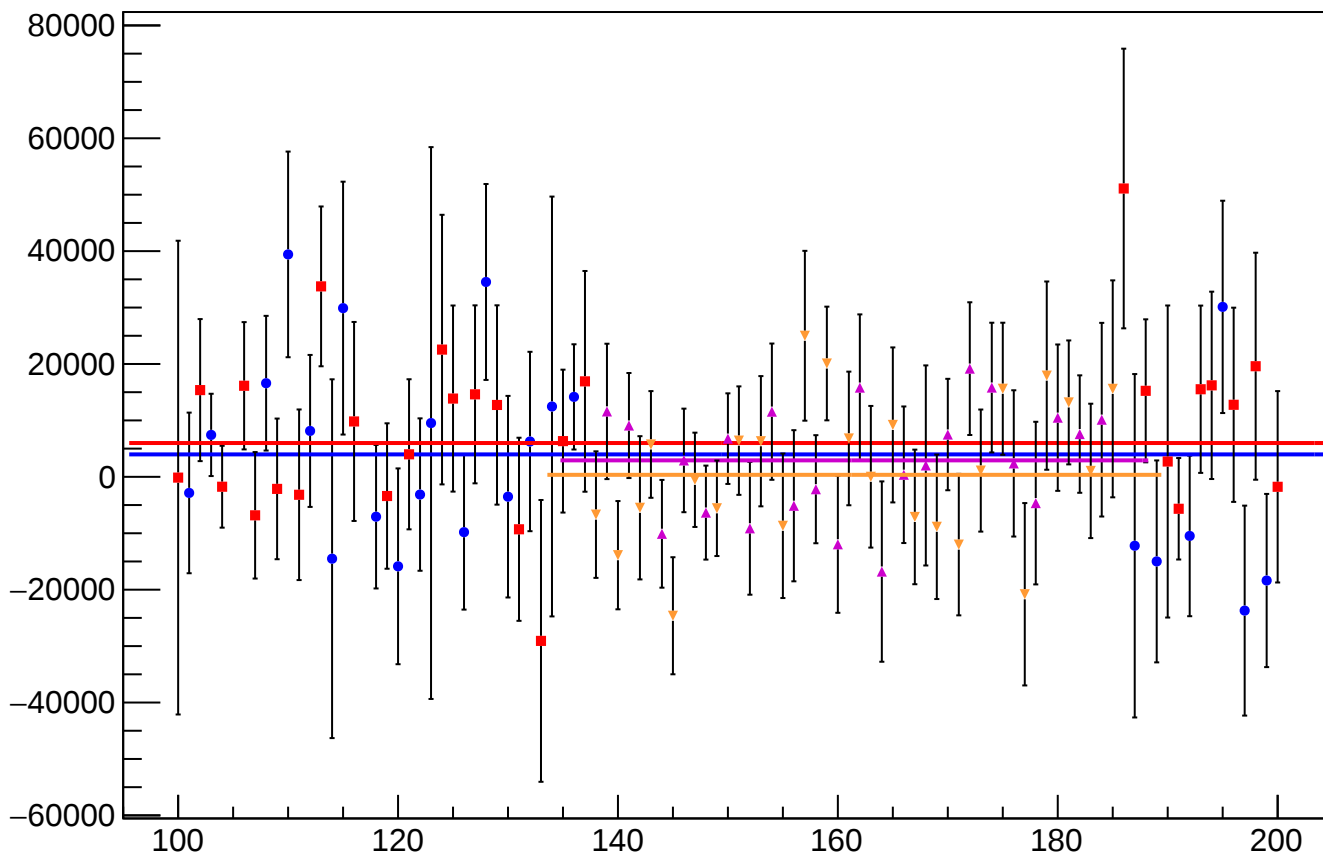
Left In: 9181.254 $\pm$ 1.586

χ^2 /NDF: 1236469.7/22

All: 300.570 $\pm$ 0.137

χ^2 /NDF: 112576273.7/9

asym_atr2_mean vs Slug, Sign Corrected



Right In: 3976.794 $\pm$ 3090.260 χ^2 /NDF: 23.7/22

Left Out: 355.717 $\pm$ 2281.682 χ^2 /NDF:26.2/24

Right Out: 5992.006 $\pm$ 2688.577 χ^2 /NDF: 20.6/27

Left In: 2918.356 $\pm$ 2338.461 χ^2 /NDF:14.9/22

Left: 1605.548 $\pm$ 1633.097 χ^2 /NDF: 41.8/47

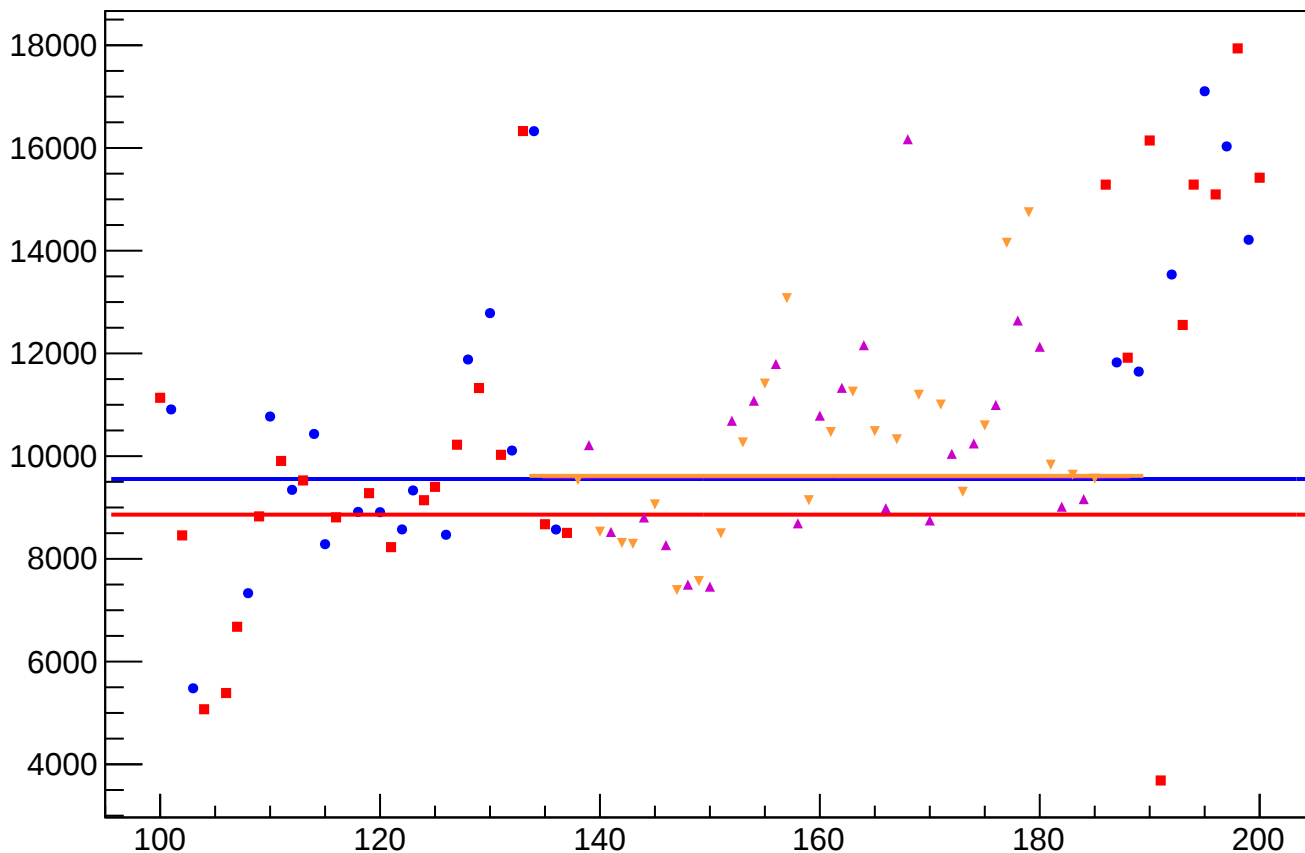
Right: 5123.803 $\pm$ 2028.362 χ^2 /NDF: 44.5/50

In: 3303.755 $\pm$ 1864.737 χ^2 /NDF:38.7/45

Out: 2715.514 $\pm$ 1739.655 χ^2 /NDF:49.3/52

All: 2989.245 $\pm$ 1272.045 χ^2 /NDF: 88.1/98

asym_atr2_rms vs Slug, Sign Corrected



Right In: 9555.092 $\pm$ 2.185

χ^2 /NDF: 1896196.7/22

Left: 9607.606 $\pm$ 1.155

χ^2 /NDF: 2093896.0/47

Left Out: 9616.245 $\pm$ 1.613

χ^2 /NDF: 1011665.6/24

Right: 9160.085 $\pm$ 1.434

χ^2 /NDF: 5485454.8/50

Right Out: 8861.114 $\pm$ 1.901

χ^2 /NDF: 3531847.7/27

In: 9582.714 $\pm$ 1.319

χ^2 /NDF: 2978619.6/45

Out: 9300.075 $\pm$ 1.230

χ^2 /NDF: 4635233.2/52

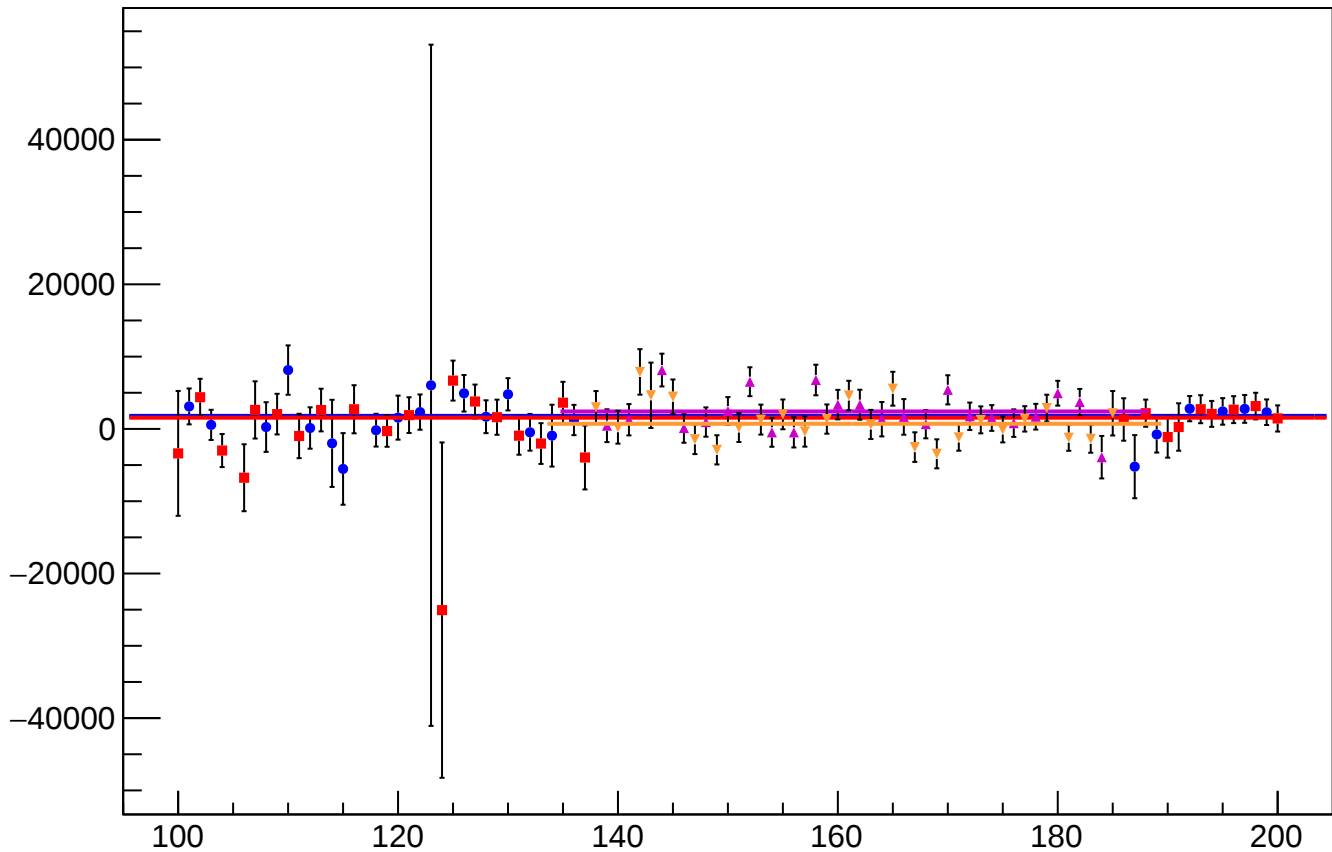
Left In: 9598.531 $\pm$ 1.654

χ^2 /NDF: 1082171.6/22

All: 9431.596 $\pm$ 0.899

χ^2 /NDF: 7638419.4/98

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1803.512+/-524.070 χ^2/NDF : 17.1/22

Left Out: 709.722+/-417.377 χ^2/NDF : 34.8/24

Right Out: 1554.972+/-482.819 χ^2/NDF : 23.5/27

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

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

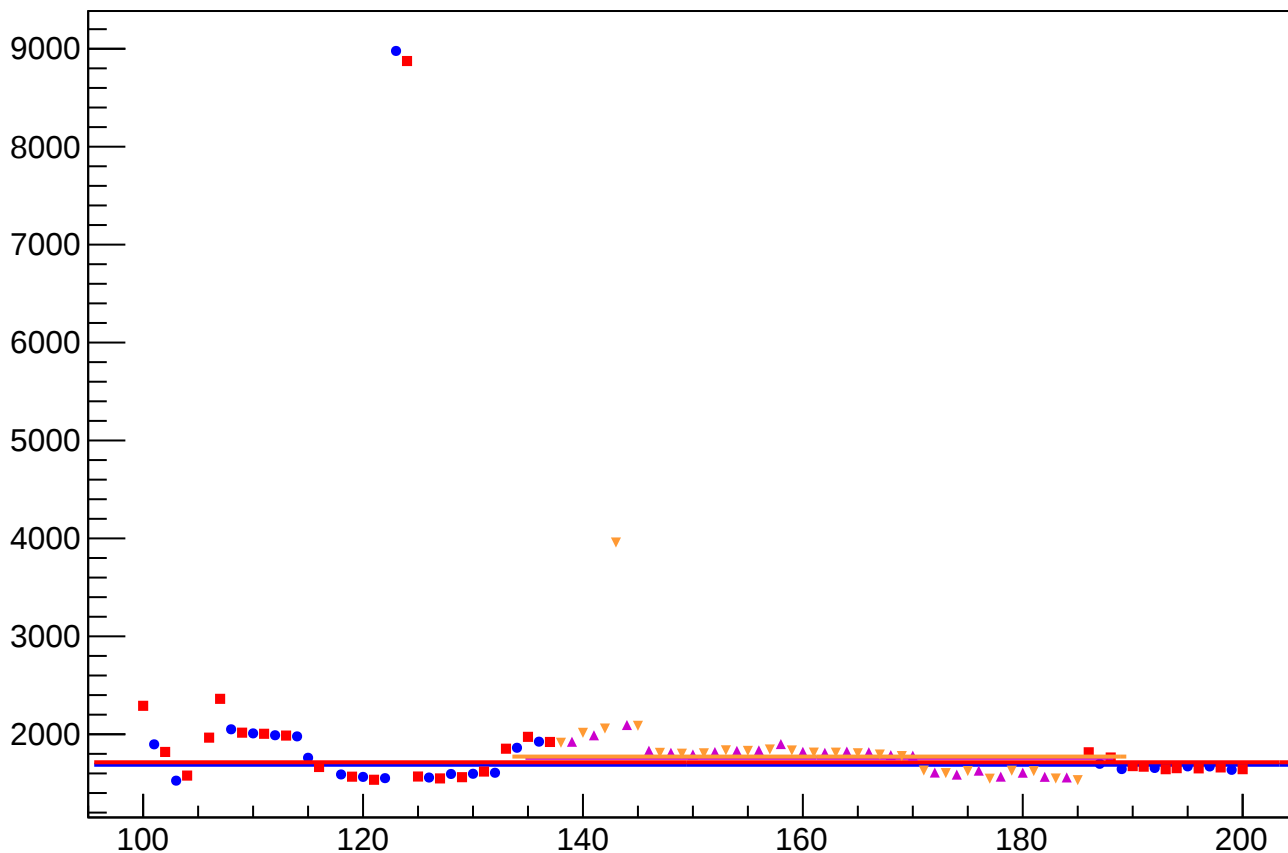
Right: 1669.077+/-355.094 χ^2/NDF : 40.6/50

In: 2173.301+/-329.379 χ^2/NDF : 51.9/45

Out: 1071.223+/-315.752 χ^2/NDF : 60.0/52

All: 1598.993+/-227.936 χ^2/NDF : 117.8/98

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1688.563+/-0.371 χ^2/NDF : 200869.4/22

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1713.969+/-0.341 χ^2/NDF : 417896.7/27

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

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

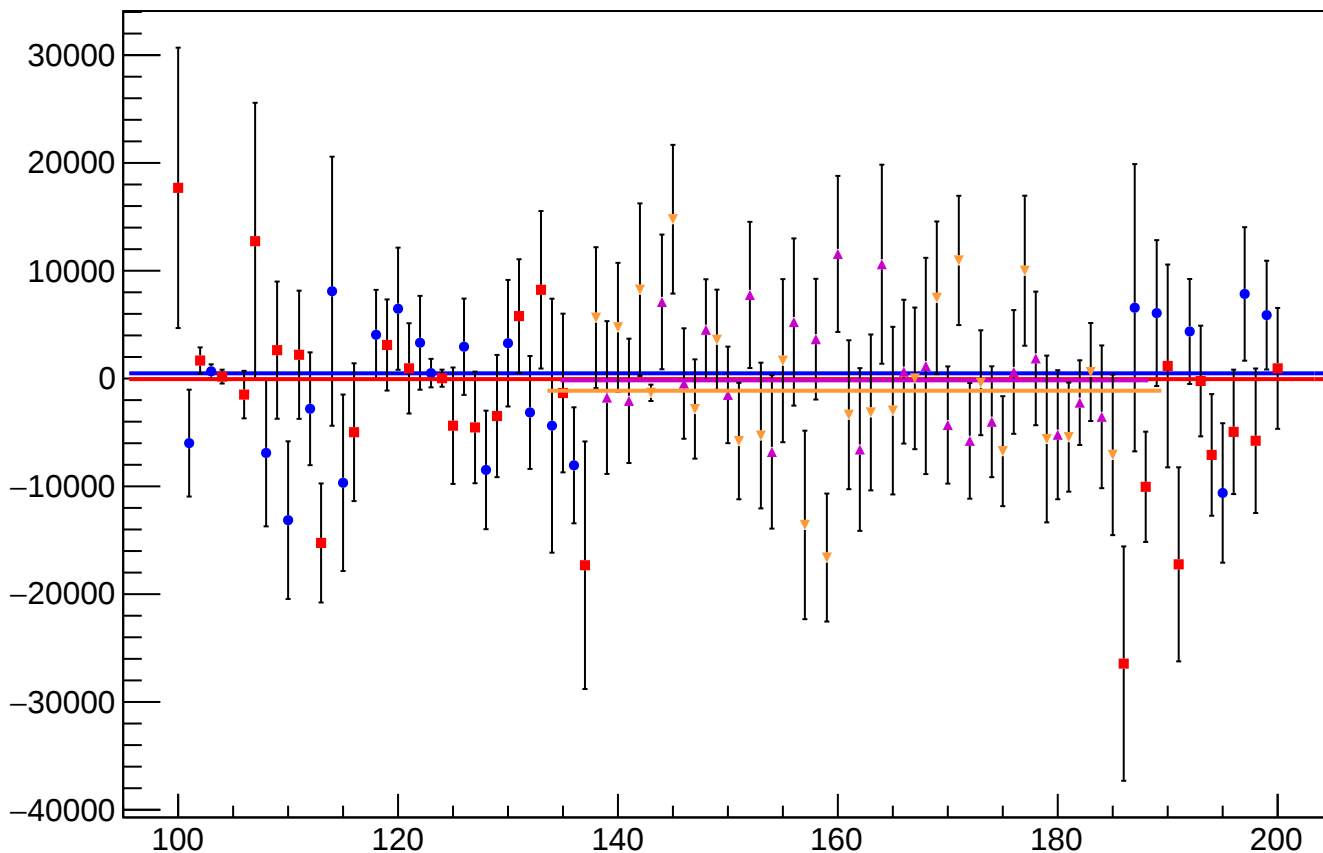
Right: 1702.334+/-0.251 χ^2/NDF : 621314.0/50

In: 1731.539+/-0.233 χ^2/NDF : 437992.1/45

Out: 1747.141+/-0.223 χ^2/NDF : 1136974.4/52

All: 1739.677+/-0.161 χ^2/NDF : 1577307.3/98

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 484.753 ± 528.526 $\chi^2/\text{NDF}: 24.4/22$

Left Out: -1129.807 ± 647.600 $\chi^2/\text{NDF}: 31.5/24$

Right Out: -51.379 ± 424.824 $\chi^2/\text{NDF}: 37.5/27$

Left In: -168.182 ± 1232.411 $\chi^2/\text{NDF}: 14.2/22$

Left: -921.734 ± 573.272 $\chi^2/\text{NDF}: 46.1/47$

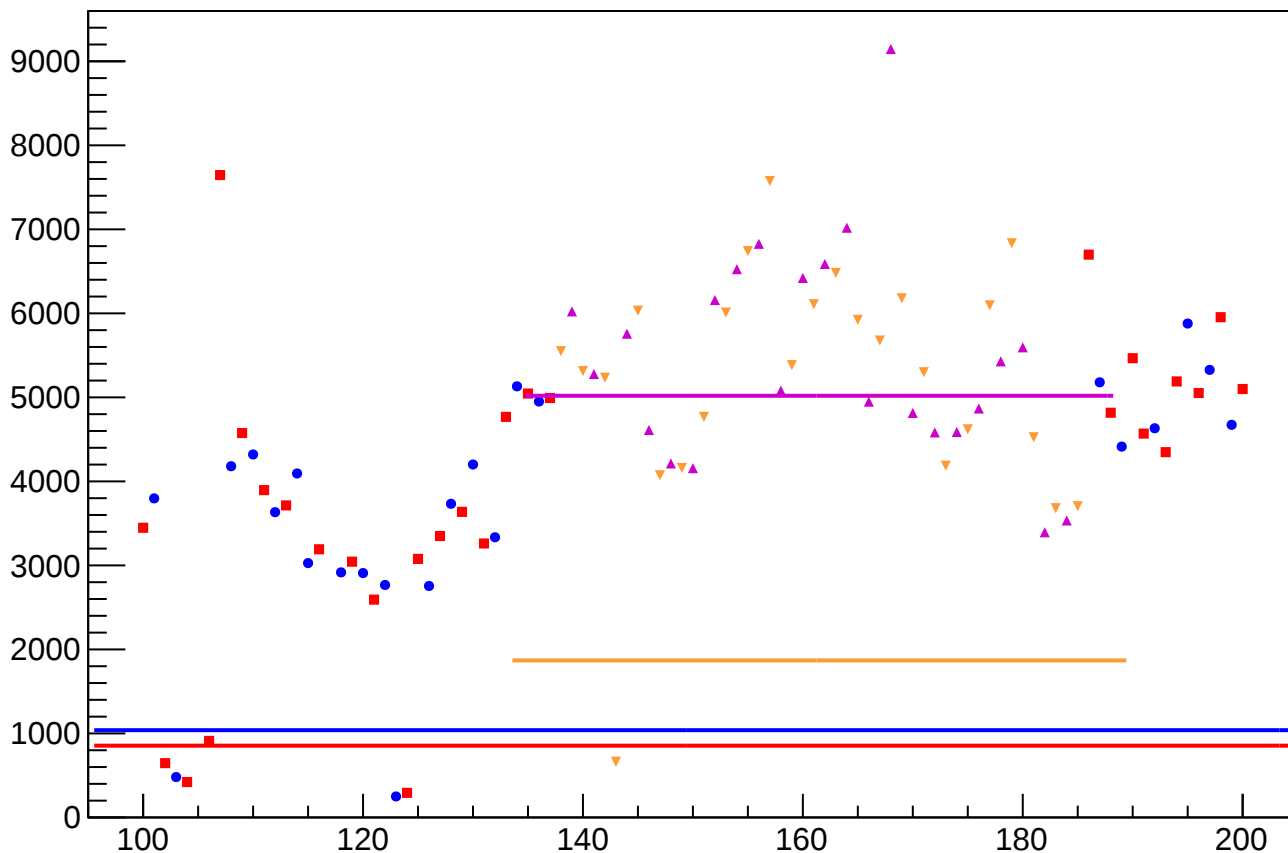
Right: 159.051 ± 331.119 $\chi^2/\text{NDF}: 62.5/50$

In: 383.322 ± 485.742 $\chi^2/\text{NDF}: 38.8/45$

Out: -375.837 ± 355.214 $\chi^2/\text{NDF}: 70.9/52$

All: -111.317 ± 286.727 $\chi^2/\text{NDF}: 111.3/98$

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1038.738+/-0.374

χ^2/NDF : 13248487.6/22

Left: 2550.597+/-0.405

χ^2/NDF : 31661059.7/47

Left Out: 1868.983+/-0.458

χ^2/NDF : 19852416.6/24

Right: 926.867+/-0.234

χ^2/NDF : 30156860.2/50

Right Out: 854.589+/-0.300

χ^2/NDF : 16760875.4/27

In: 1657.074+/-0.343

χ^2/NDF : 32439132.9/45

Left In: 5019.114+/-0.871

χ^2/NDF : 1569031.9/22

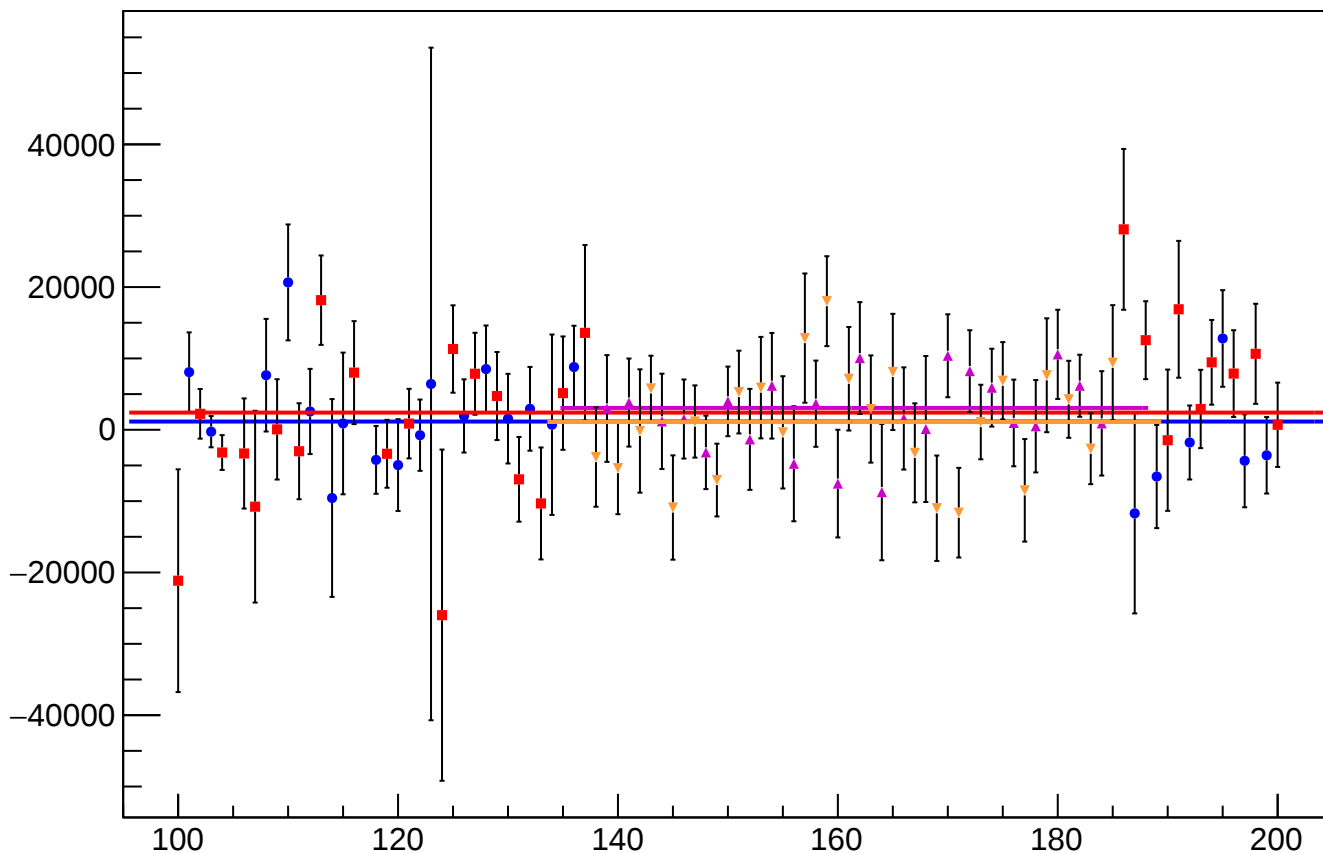
Out: 1159.782+/-0.251

χ^2/NDF : 40044071.8/52

All: 1333.057+/-0.203

χ^2/NDF : 73849036.2/9

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1153.752+/-1177.368 χ^2/NDF : 21.5/22

Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24

Right Out: 2410.002+/-1116.326 χ^2/NDF : 43.8/27

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

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

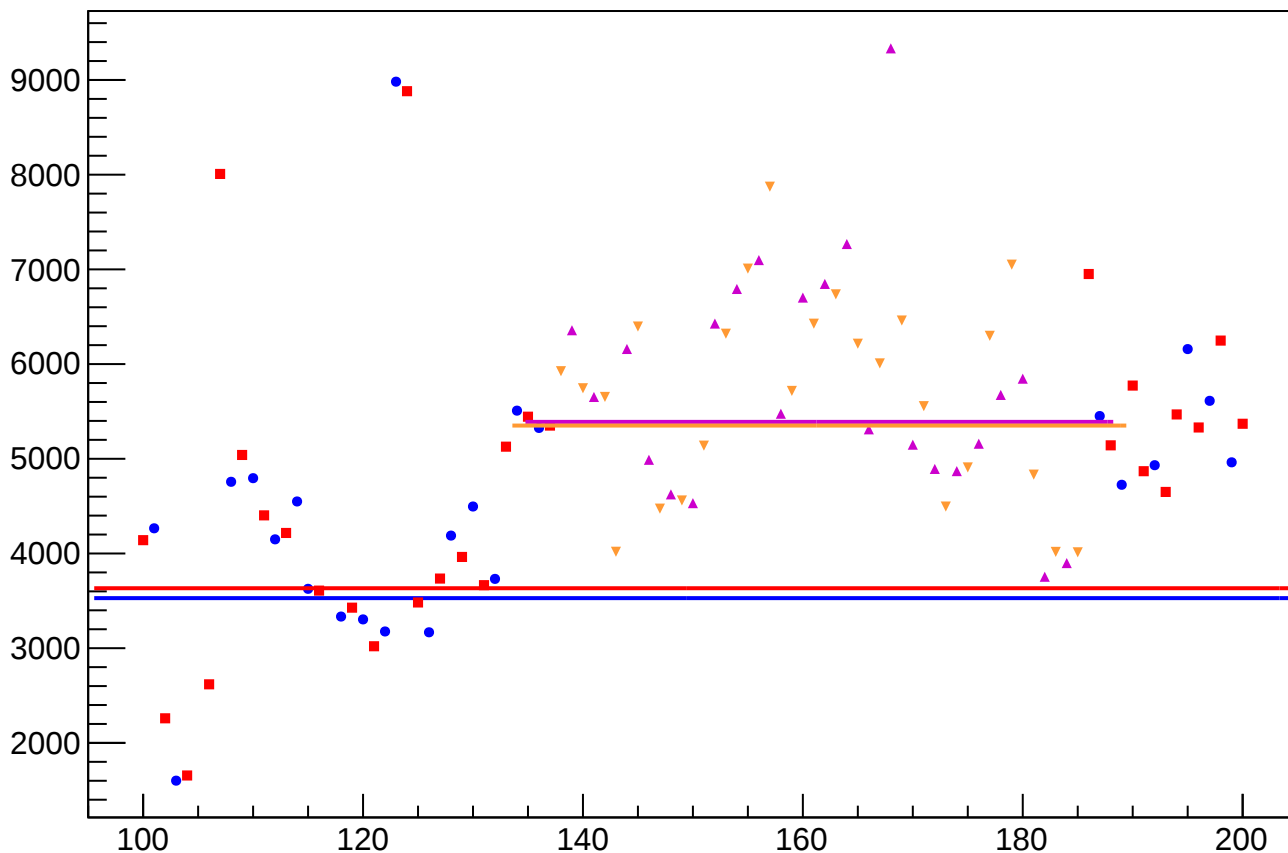
Right: 1815.286+/-810.082 χ^2/NDF : 65.8/50

In: 2001.781+/-878.102 χ^2/NDF : 35.2/45

Out: 1838.120+/-839.352 χ^2/NDF : 76.3/52

All: 1916.260+/-606.748 χ^2/NDF : 111.6/98

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3528.648 ± 0.833 χ^2/NDF : 2971698.5/22

Left Out: 5350.804 ± 0.900 χ^2/NDF : 1241497.9/24

Right Out: 3633.118 ± 0.781 χ^2/NDF : 3713427.3/27

Left In: 5389.724 ± 0.932 χ^2/NDF : 1309863.0/22

Left: 5369.587 ± 0.648 χ^2/NDF : 2552263.0/47

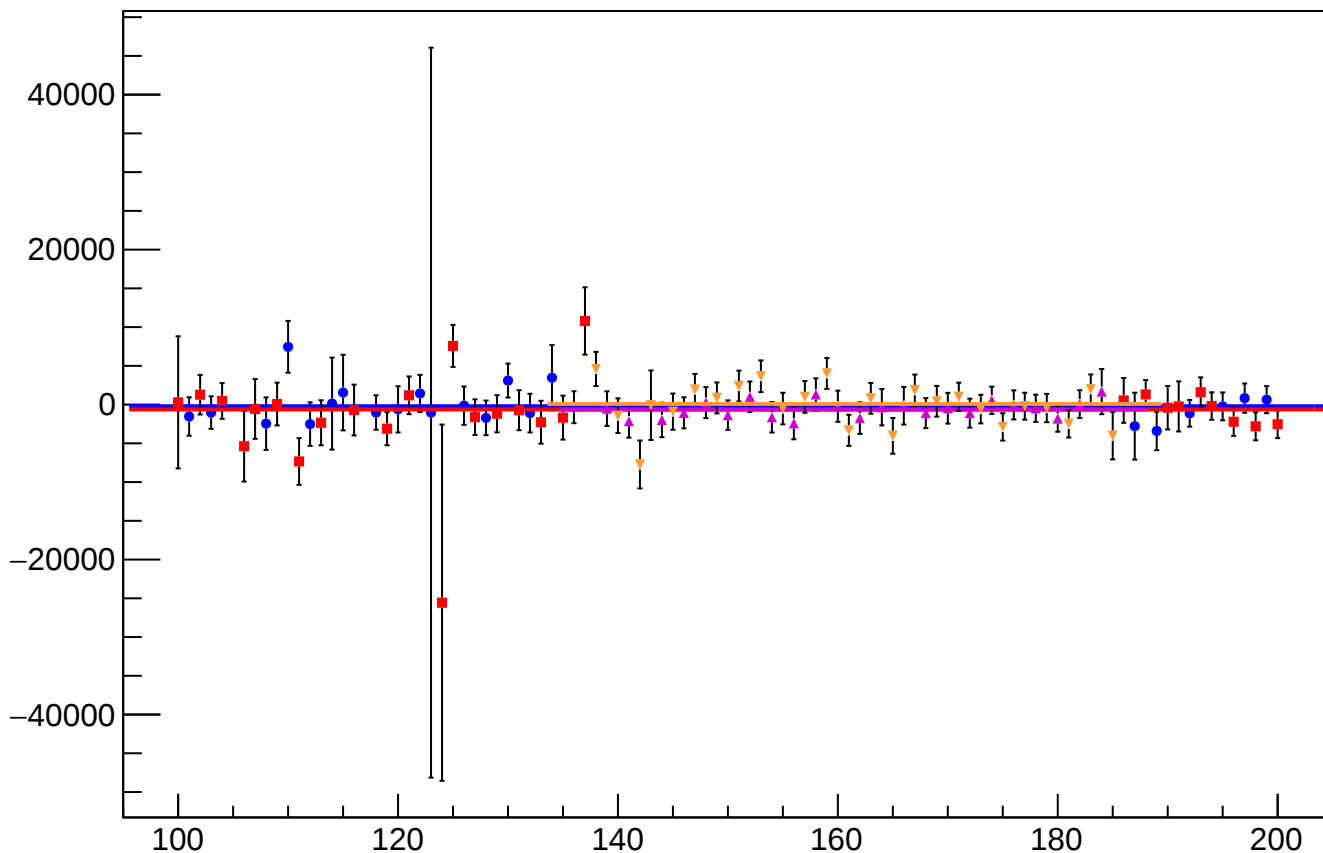
Right: 3584.235 ± 0.569 χ^2/NDF : 6693504.6/50

In: 4354.508 ± 0.621 χ^2/NDF : 6499144.8/45

Out: 4370.443 ± 0.590 χ^2/NDF : 7032832.1/52

All: 4362.885 ± 0.428 χ^2/NDF : 13532323.1/5

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -213.006+/-516.498 χ^2 /NDF: 14.0/22

Left Out: 86.214+/-411.530 χ^2 /NDF:36.0/24

Right Out: -626.077+/-475.742 χ^2 /NDF: 33.2/27

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

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

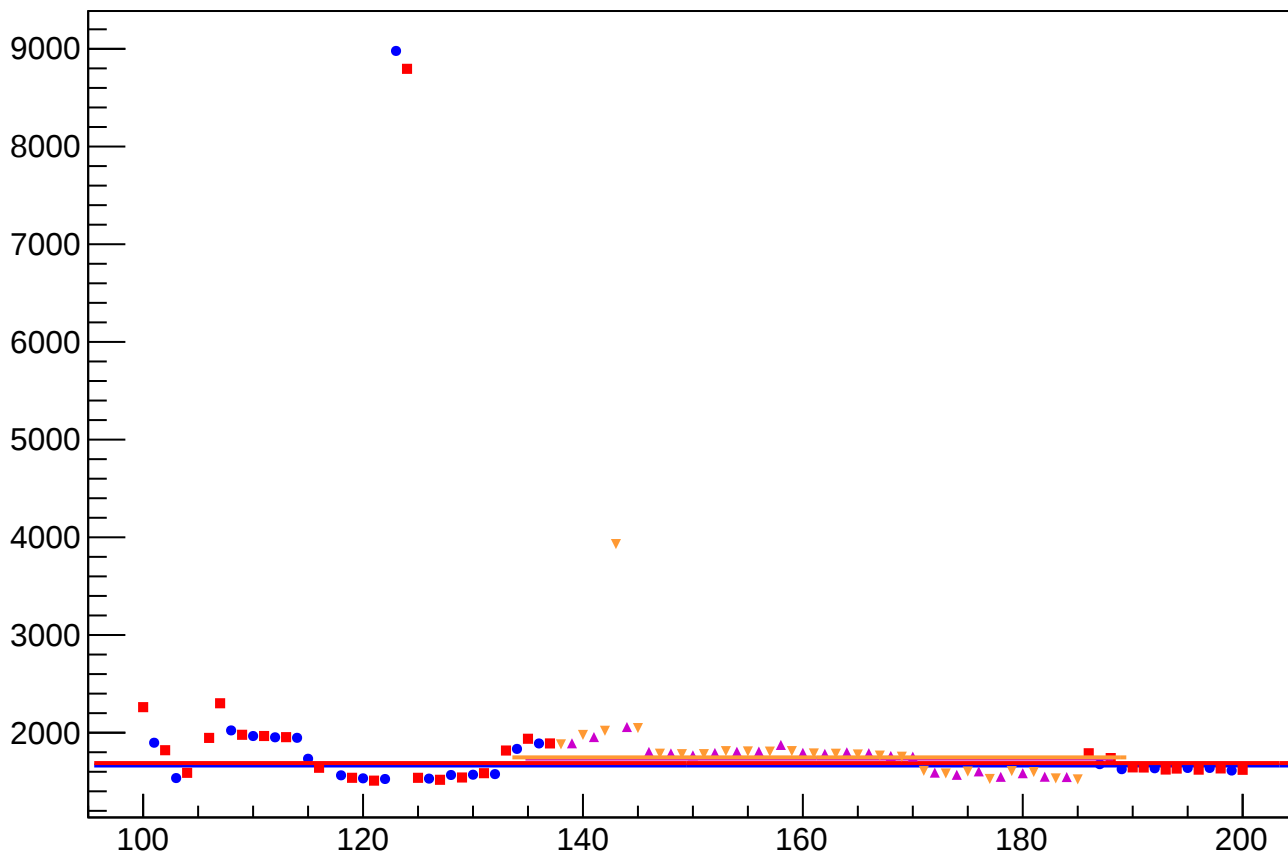
Right: -436.479+/-349.923 χ^2 /NDF: 47.6/50

In: -471.330+/-324.758 χ^2 /NDF:20.6/45

Out: -218.651+/-311.241 χ^2 /NDF:70.5/52

All: -339.623+/-224.707 χ^2 /NDF: 91.4/98

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1664.205+/-0.365 χ^2/NDF : 199427.7/22

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1689.138+/-0.336 χ^2/NDF : 414633.2/27

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

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

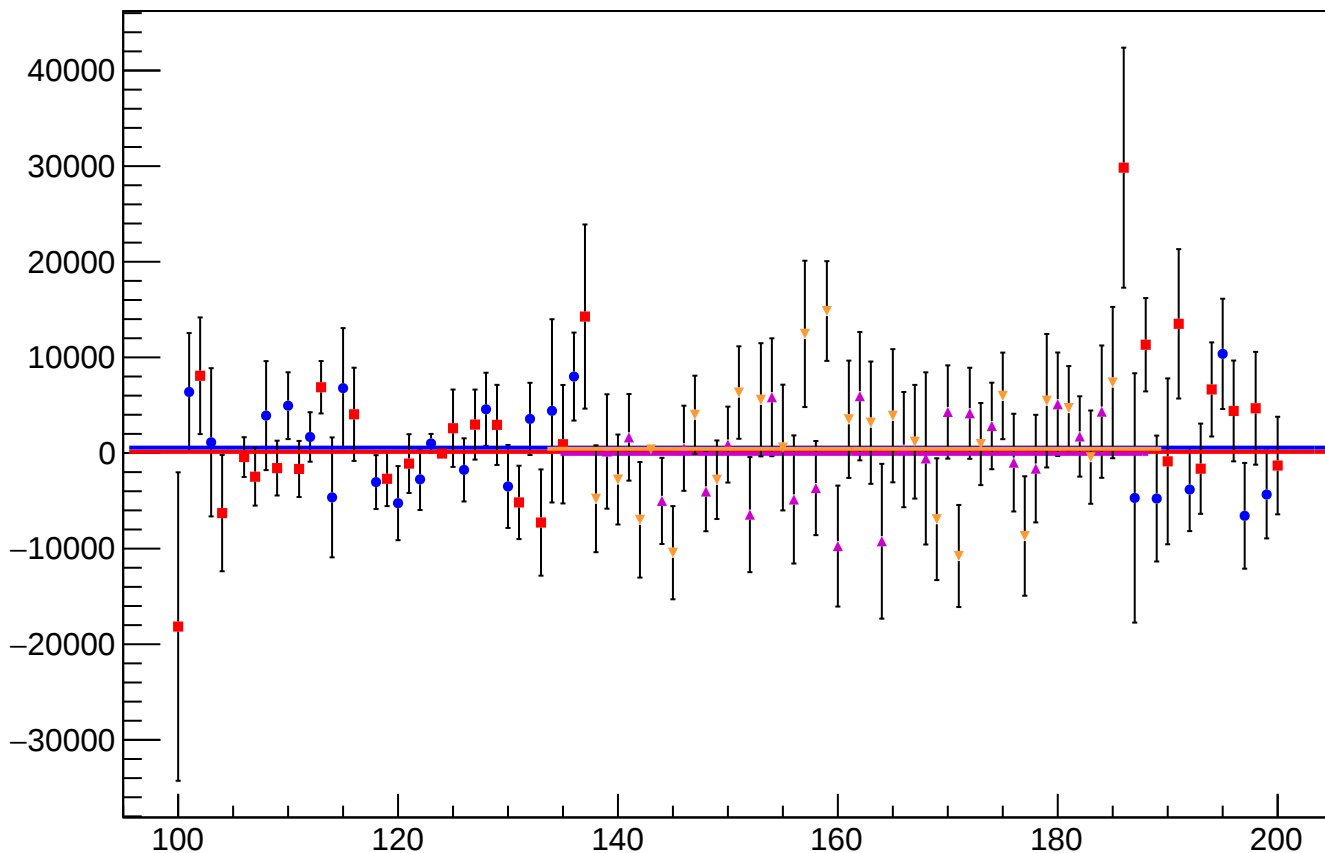
Right: 1677.722+/-0.247 χ^2/NDF : 616587.5/50

In: 1707.338+/-0.230 χ^2/NDF : 429262.2/45

Out: 1722.354+/-0.220 χ^2/NDF : 1129979.8/52

All: 1715.172+/-0.159 χ^2/NDF : 1561472.7/98

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 560.046+/-675.169 χ^2/NDF : 23.2/22

Left Out: 442.187+/-440.335 χ^2/NDF :33.9/24

Right Out: 116.755+/-351.361 χ^2/NDF : 38.0/27

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

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

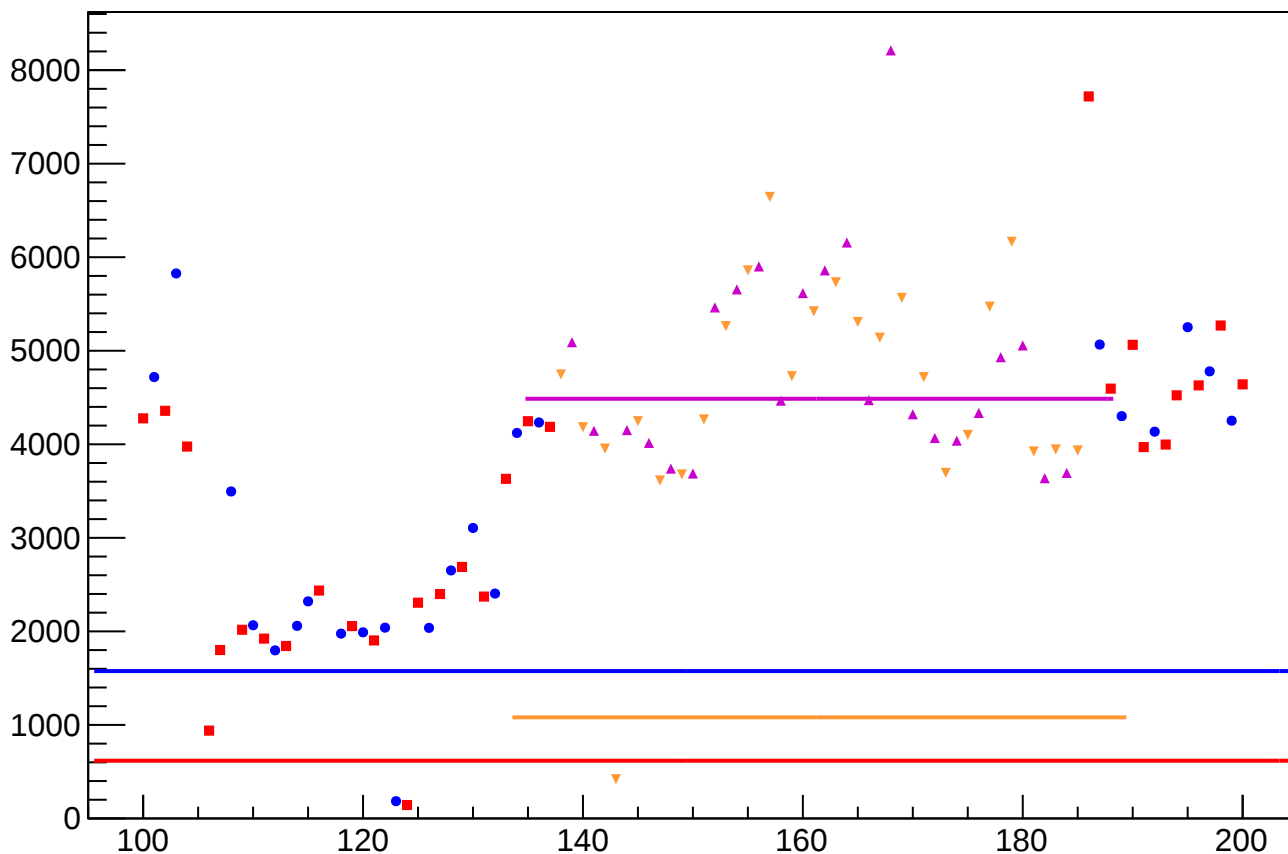
Right: 211.223+/-311.681 χ^2/NDF : 61.6/50

In: 381.357+/-574.680 χ^2/NDF :36.9/45

Out: 243.354+/-274.642 χ^2/NDF :72.3/52

All: 269.013+/-247.799 χ^2/NDF : 109.2/98

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1575.531 $\pm$ 0.477

χ^2 /NDF: 10168807.4/22

Left: 1555.179 $\pm$ 0.289

χ^2 /NDF: 42294704.7/47

Left Out: 1081.004 $\pm$ 0.311

χ^2 /NDF: 24456244.2/24

Right: 821.475 $\pm$ 0.220

χ^2 /NDF: 32545730.6/50

Right Out: 617.261 $\pm$ 0.248

χ^2 /NDF: 19206650.5/27

In: 2377.579 $\pm$ 0.406

χ^2 /NDF: 21594013.8/45

Out: 797.665 $\pm$ 0.194

χ^2 /NDF: 45018230.5/52

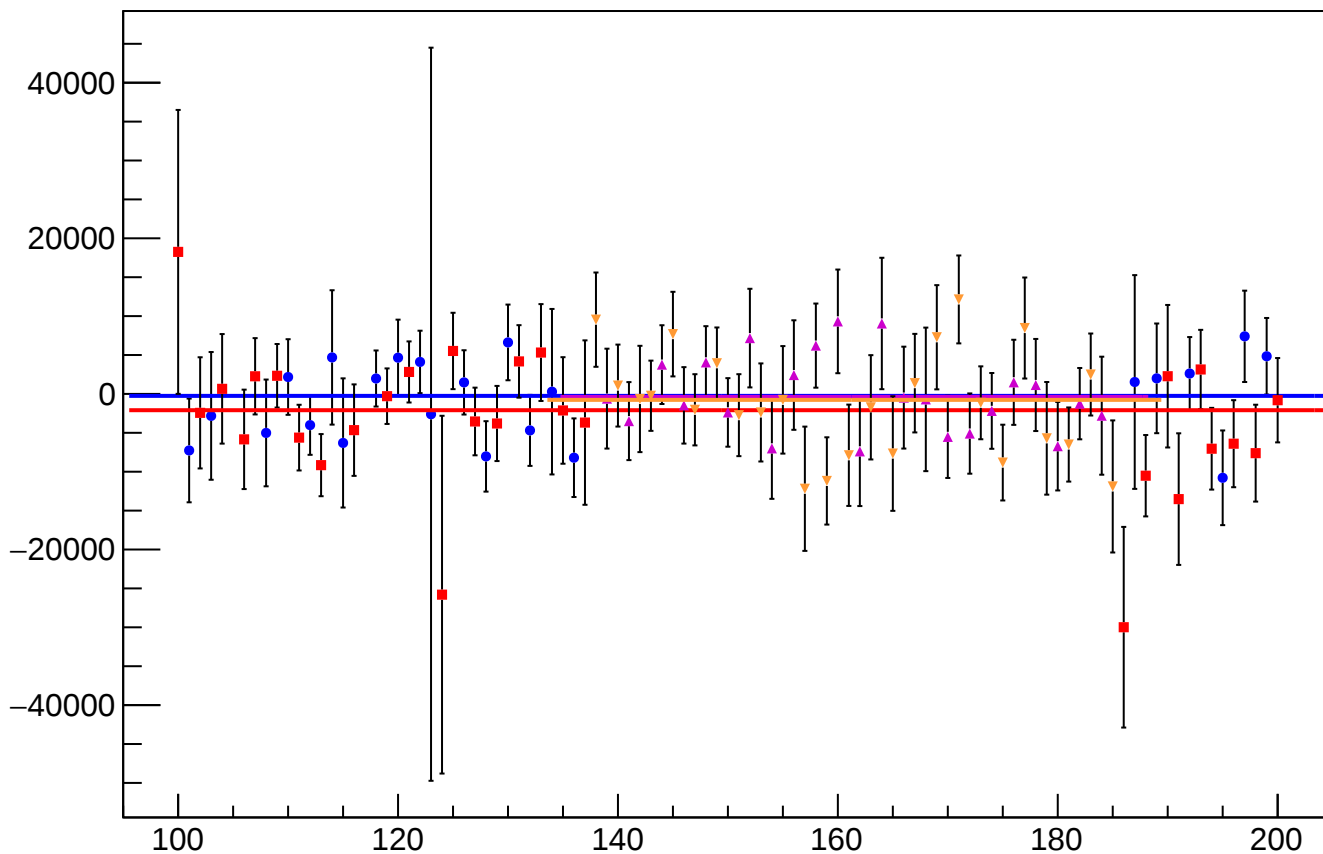
Left In: 4486.570 $\pm$ 0.774

χ^2 /NDF: 1181598.1/22

All: 1091.416 $\pm$ 0.175

χ^2 /NDF: 78917972.4/95

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -252.678+/-1123.215 χ^2/NDF : 21.1/22

Left Out: -766.008+/-1147.372 χ^2/NDF :29.9/24

Right Out: -2094.332+/-1033.453 χ^2/NDF : 29.2/27

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

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

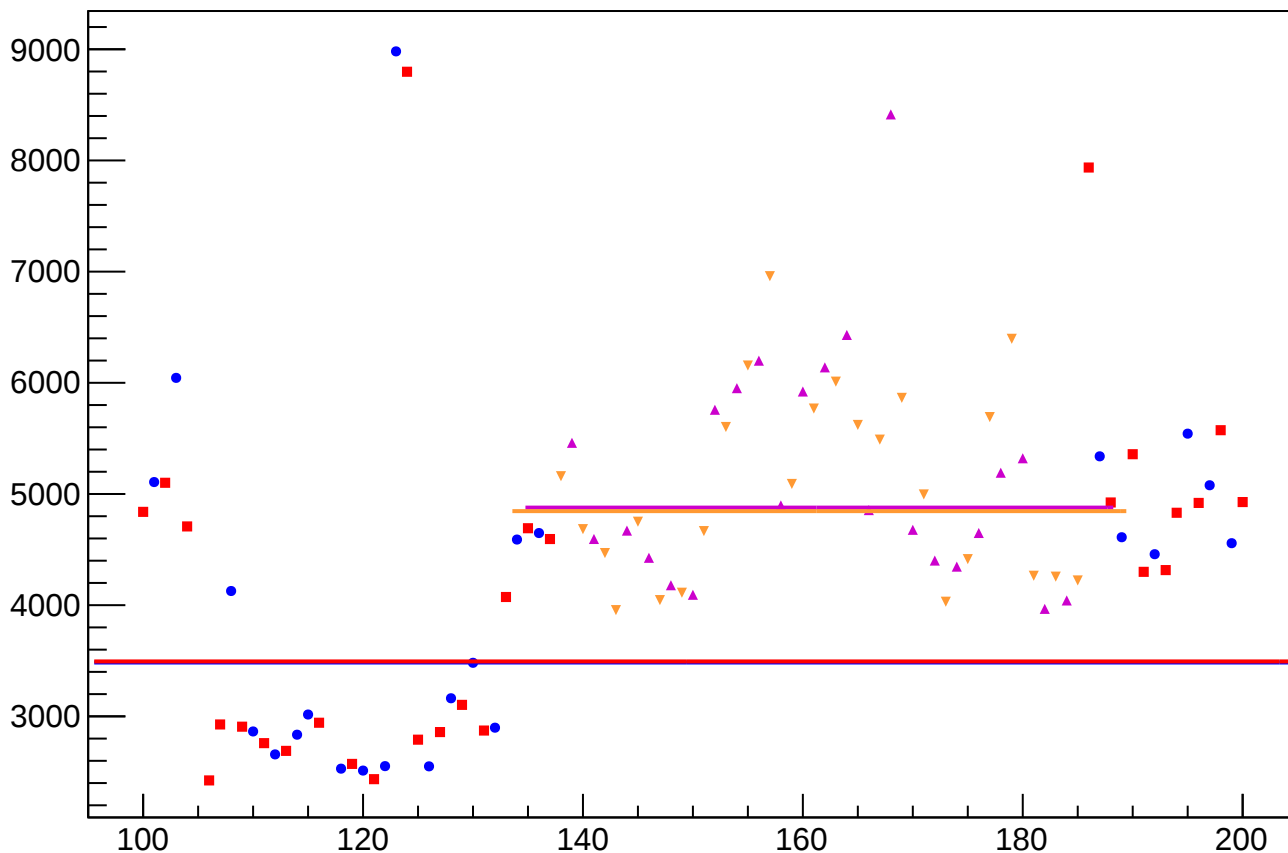
Right: -1250.024+/-760.518 χ^2/NDF : 51.8/50

In: -317.091+/-815.623 χ^2/NDF :35.3/45

Out: -1499.368+/-767.887 χ^2/NDF :59.9/52

All: -943.838+/-559.093 χ^2/NDF : 96.3/98

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3484.269+/-0.794 χ^2/NDF : 1747513.4/22

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3494.009+/-0.724 χ^2/NDF : 2276493.1/27

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

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

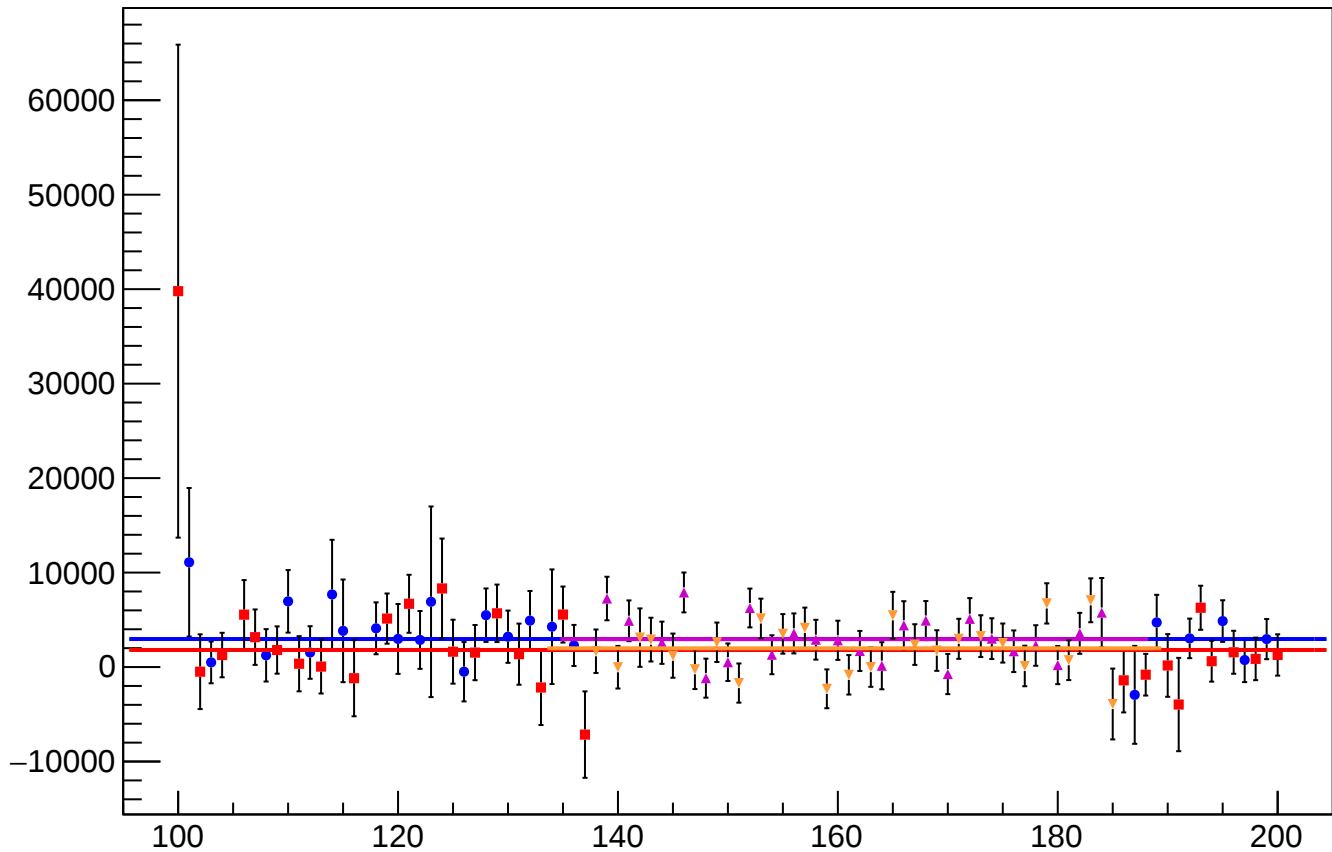
Right: 3489.590+/-0.535 χ^2/NDF : 4024088.7/50

In: 4142.833+/-0.577 χ^2/NDF : 4160639.9/45

Out: 4093.154+/-0.540 χ^2/NDF : 4731287.1/52

All: 4116.368+/-0.394 χ^2/NDF : 8895879.8/98

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2967.612+/-614.613 χ^2/NDF : 11.3/22

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1806.967+/-555.887 χ^2/NDF : 26.8/27

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

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

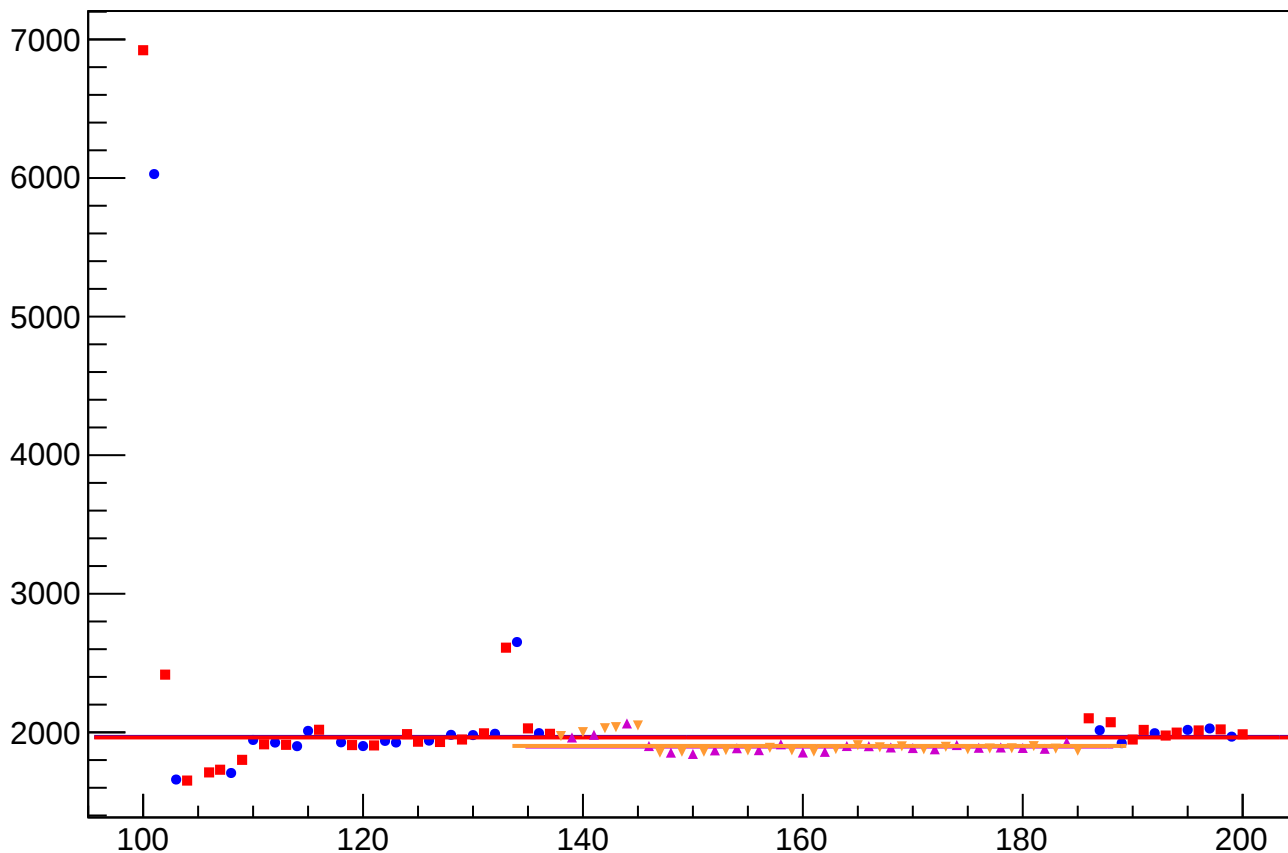
Right: 2329.204+/-412.274 χ^2/NDF : 40.0/50

In: 2960.041+/-365.462 χ^2/NDF : 39.7/45

Out: 1916.100+/-346.535 χ^2/NDF : 59.3/52

All: 2410.339+/-251.462 χ^2/NDF : 103.3/98

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1967.016+/-0.435 χ^2/NDF : 621521.4/22

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1963.125+/-0.393 χ^2/NDF : 234748.0/27

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

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

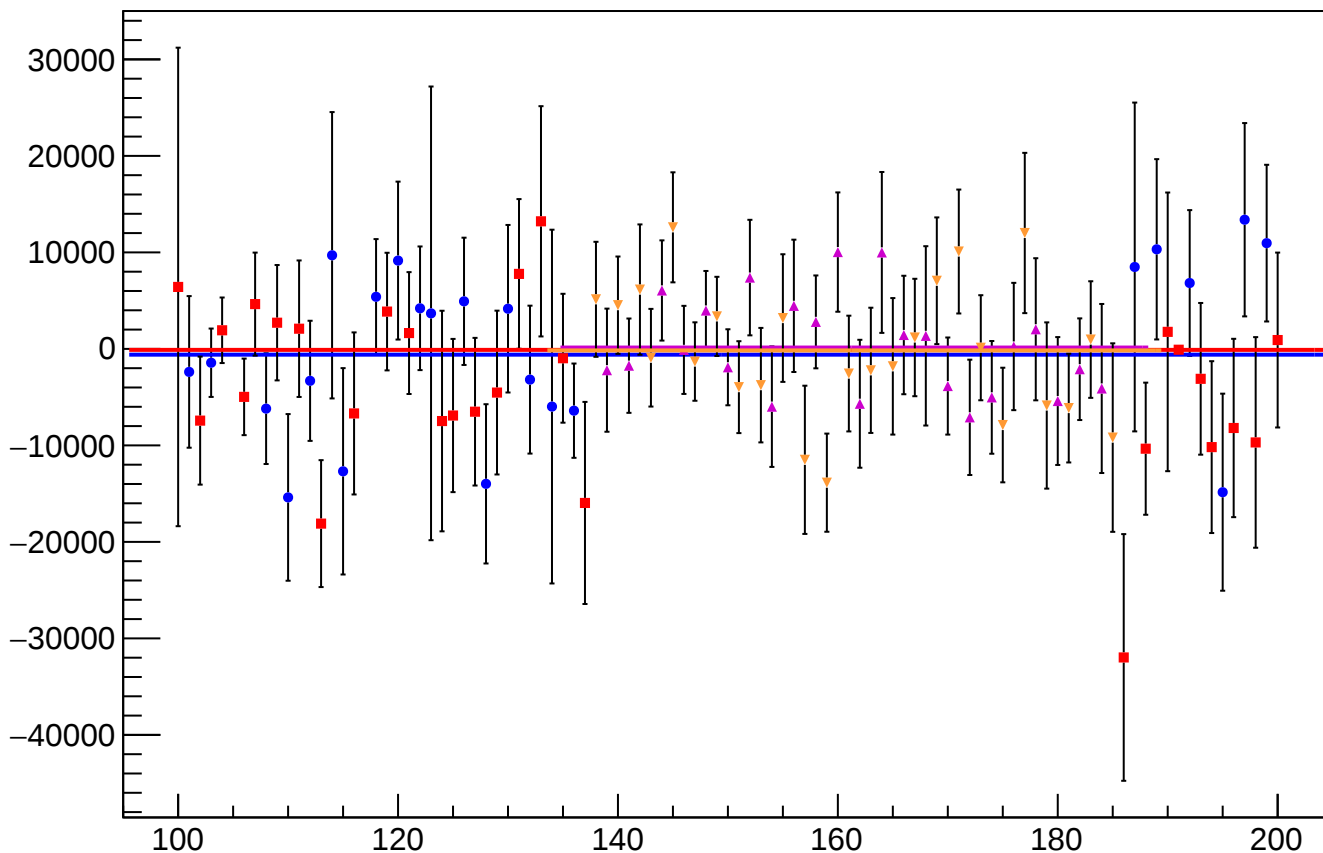
Right: 1964.873+/-0.291 χ^2/NDF : 856313.6/50

In: 1922.051+/-0.258 χ^2/NDF : 659261.9/45

Out: 1925.721+/-0.245 χ^2/NDF : 280059.4/52

All: 1923.984+/-0.178 χ^2/NDF : 939427.6/98

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -597.883+/-1528.775 χ^2/NDF : 22.7/22

Left Out: -157.539+/-1165.844 χ^2/NDF : 29.5/24

Right Out: -102.091+/-109.585 χ^2/NDF : 31.1/27

Left In: 139.000+/-1190.889 χ^2/NDF : 14.7/22

Left: -12.420+/-833.090 χ^2/NDF : 44.2/47

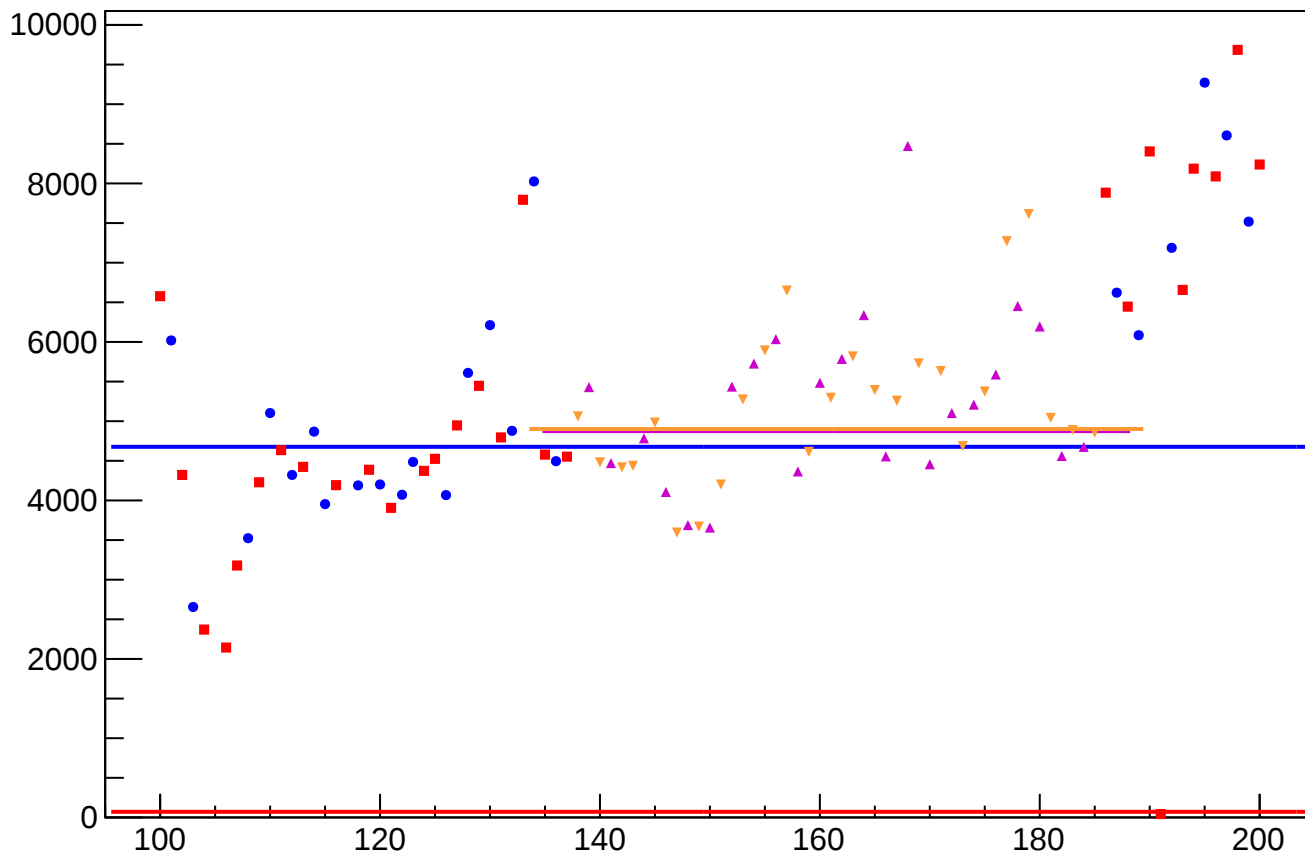
Right: -104.625+/-109.304 χ^2/NDF : 53.9/50

In: -139.284+/-939.482 χ^2/NDF : 37.6/45

Out: -102.576+/-109.104 χ^2/NDF : 60.6/52

All: -103.065+/-108.375 χ^2/NDF : 98.2/98

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4676.790+/-1.081 χ^2/NDF : 2275257.0/22

Left Out: 4901.357+/-0.824 χ^2/NDF : 1136916.0/24

Right Out: 71.508+/-0.077 χ^2/NDF : 24413890.0/27

Left In: 4875.112+/-0.842 χ^2/NDF : 1229198.0/22

Left: 4888.513+/-0.589 χ^2/NDF : 2366610.1/47

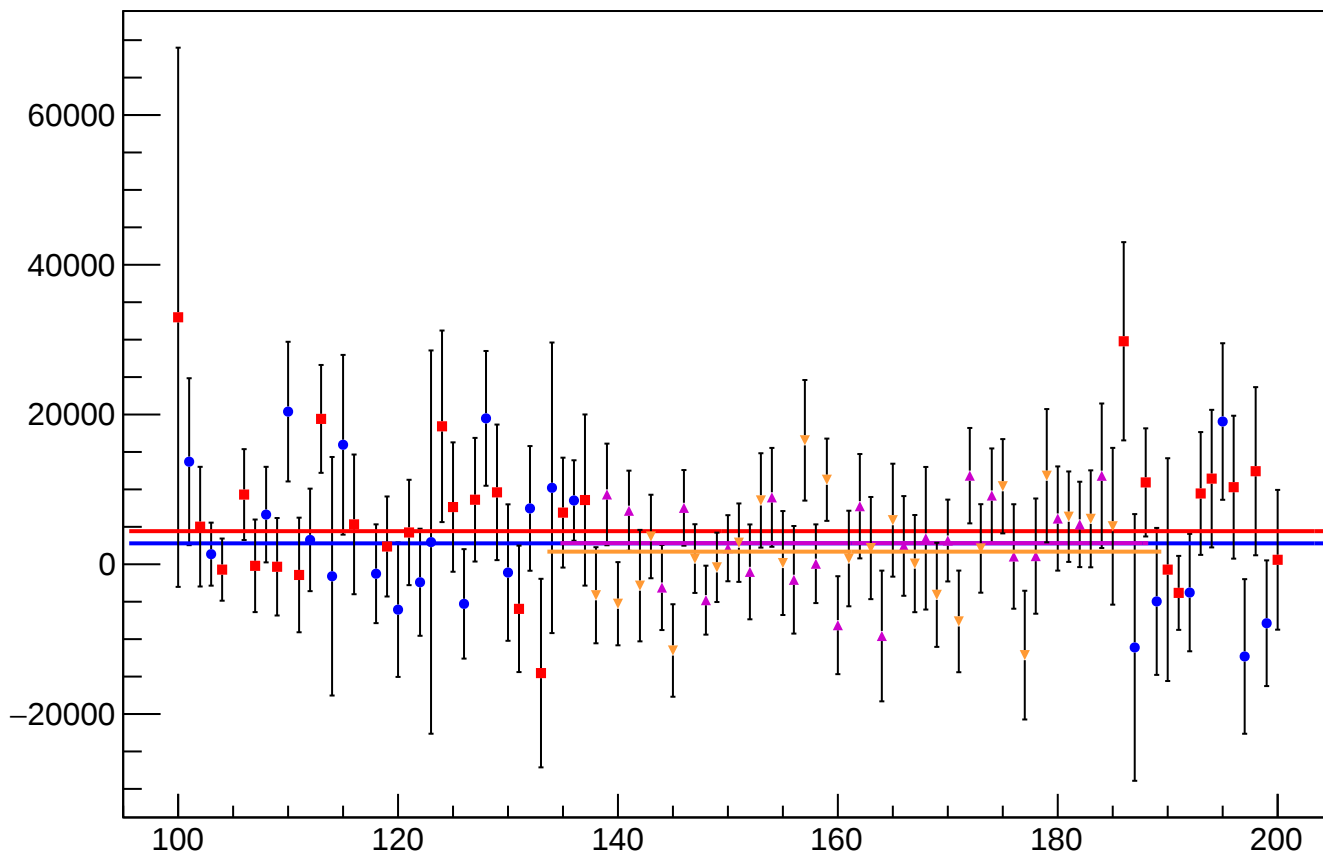
Right: 95.050+/-0.077 χ^2/NDF : 44745479.2/50

In: 4800.216+/-0.664 χ^2/NDF : 3525401.9/45

Out: 113.807+/-0.077 χ^2/NDF : 59575608.8/52

All: 176.170+/-0.077 χ^2/NDF : 112204811.5/59

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2794.552 $\pm$ 1698.616 χ^2/NDF : 22.7/22

Left Out: 1686.531 $\pm$ 1261.650 χ^2/NDF : 25.4/24

Right Out: 4421.751 $\pm$ 1470.882 χ^2/NDF : 24.3/27

Left In: 2824.078 $\pm$ 1288.414 χ^2/NDF : 18.0/22

Left: 2243.367 $\pm$ 901.435 χ^2/NDF : 43.8/47

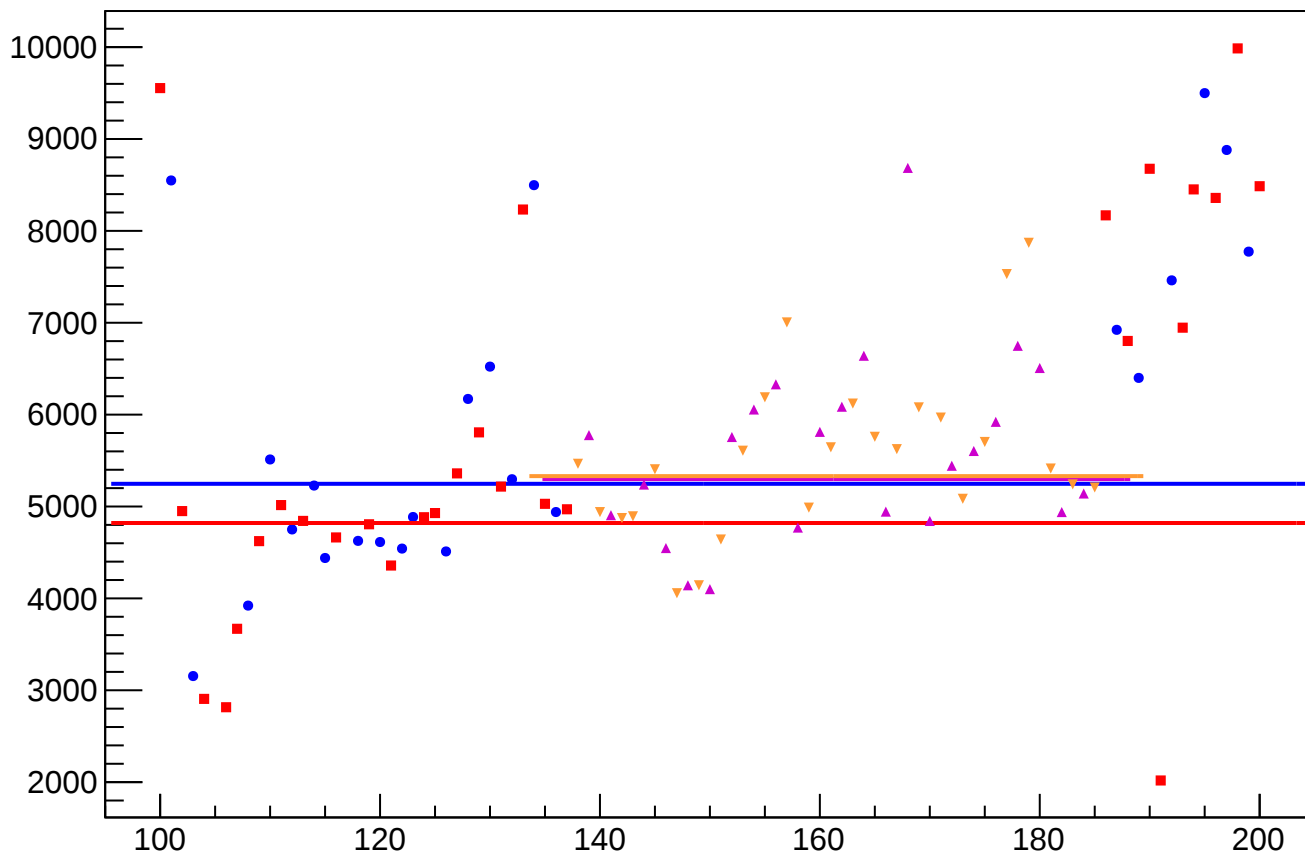
Right: 3724.468 $\pm$ 1111.935 χ^2/NDF : 47.5/50

In: 2813.295 $\pm$ 1026.524 χ^2/NDF : 40.7/45

Out: 2845.925 $\pm$ 957.629 χ^2/NDF : 51.7/52

All: 2830.742 $\pm$ 700.236 χ^2/NDF : 92.4/98

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5247.087+/-1.201 χ^2/NDF : 1932638.5/22

Left Out: 5330.725+/-0.892 χ^2/NDF : 868061.7/24

Right Out: 4820.487+/-1.036 χ^2/NDF : 3487378.5/27

Left In: 5298.329+/-0.911 χ^2/NDF : 956021.6/22

Left: 5314.867+/-0.637 χ^2/NDF : 1824728.8/47

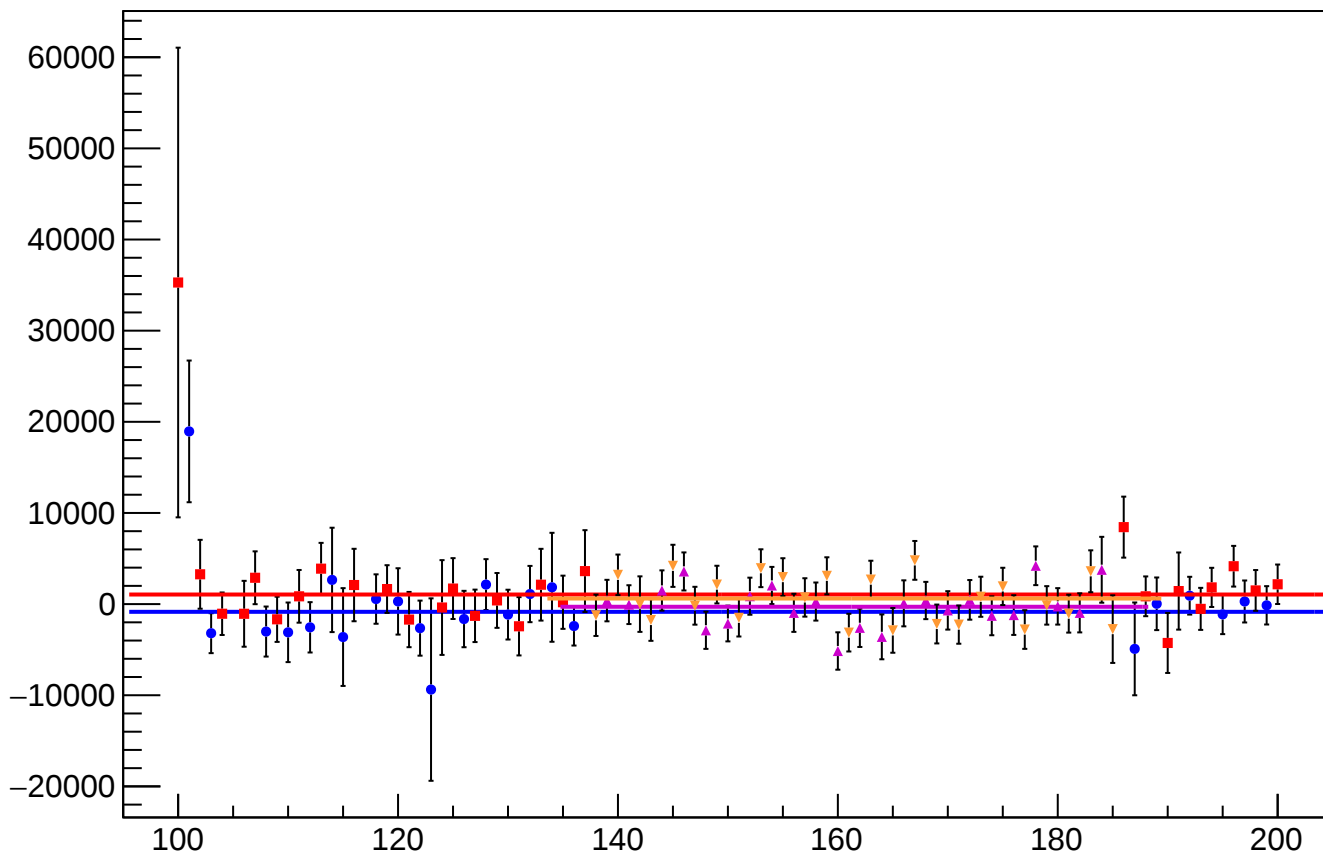
Right: 5002.412+/-0.784 χ^2/NDF : 5492369.3/50

In: 5279.615+/-0.726 χ^2/NDF : 2889815.5/45

Out: 5113.396+/-0.676 χ^2/NDF : 4494769.7/52

All: 5190.593+/-0.495 χ^2/NDF : 7412670.2/98

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -847.442+/-606.704 χ^2/NDF : 15.4/22

Left Out: 612.314+/-438.264 χ^2/NDF : 32.7/24

Right Out: 1051.364+/-547.989 χ^2/NDF : 19.7/27

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

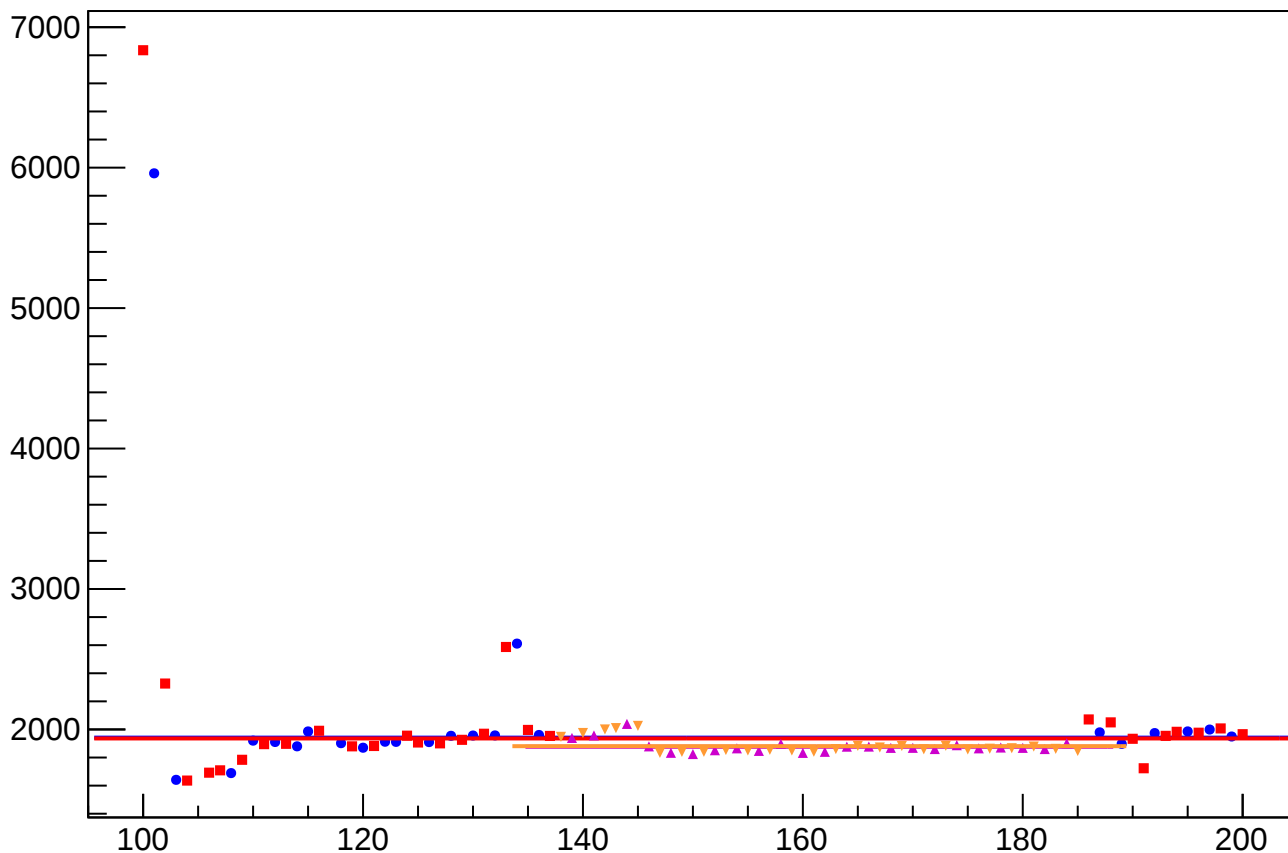
Right: 198.265+/-406.665 χ^2/NDF : 40.5/50

In: -489.535+/-361.213 χ^2/NDF : 39.6/45

Out: 783.590+/-342.265 χ^2/NDF : 52.7/52

All: 181.292+/-248.447 χ^2/NDF : 98.9/98

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1941.799 $\pm$ 0.429 χ^2 /NDF: 619853.2/22

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF: 28655.5/24

Right Out: 1935.819 $\pm$ 0.387 χ^2 /NDF: 233773.7/27

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

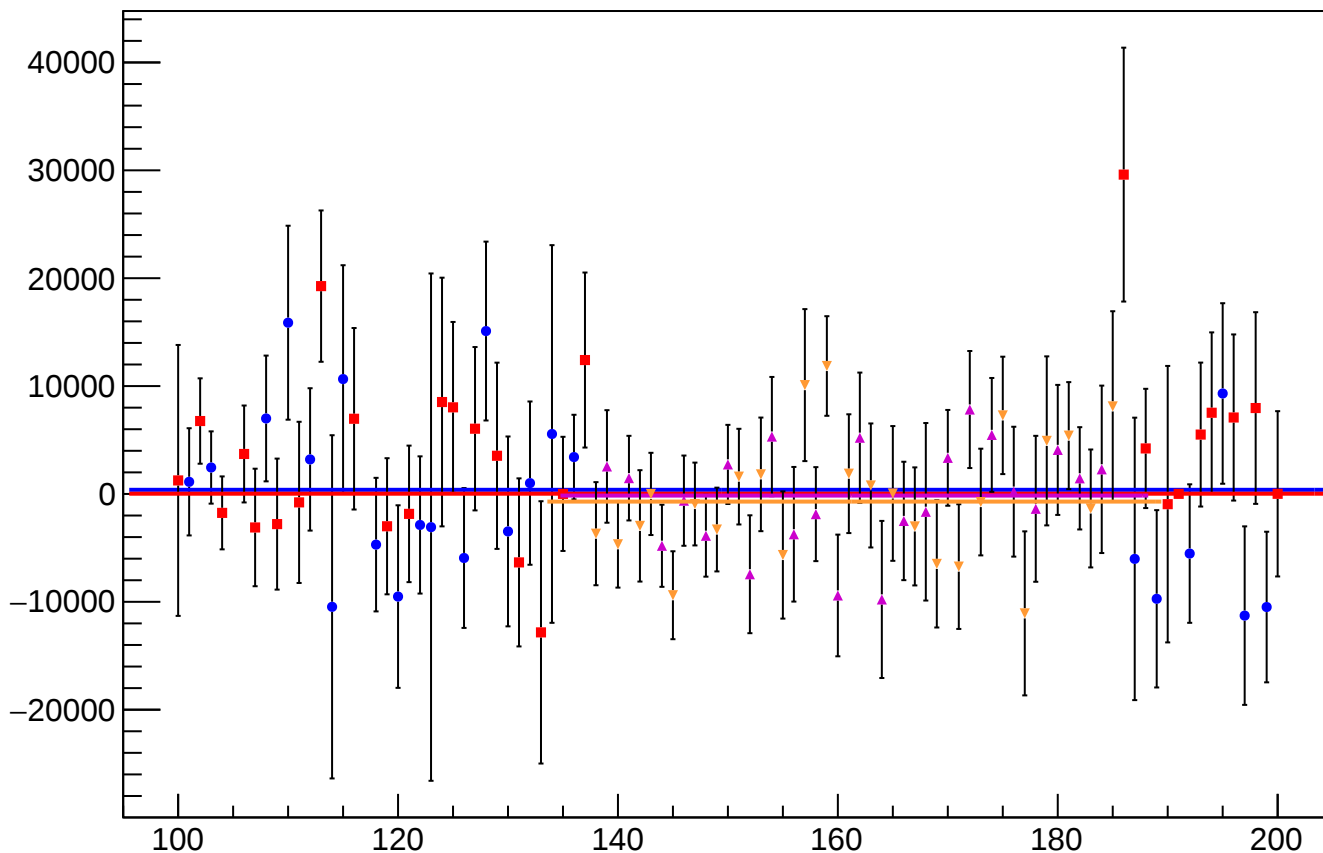
Right: 1938.502 $\pm$ 0.287 χ^2 /NDF: 853734.0/50

In: 1899.765 $\pm$ 0.255 χ^2 /NDF: 655224.0/45

Out: 1902.302 $\pm$ 0.242 χ^2 /NDF: 274740.8/52

All: 1901.102 $\pm$ 0.176 χ^2 /NDF: 930016.8/98

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 383.992 ± 1406.863 χ^2/NDF : 21.7/22

Left Out: -707.785 ± 1017.719 χ^2/NDF : 27.1/24

Right Out: 22.399 ± 85.814 χ^2/NDF : 29.7/27

Left In: -150.495 ± 1053.655 χ^2/NDF : 16.9/22

Left: -438.806 ± 732.011 χ^2/NDF : 44.2/47

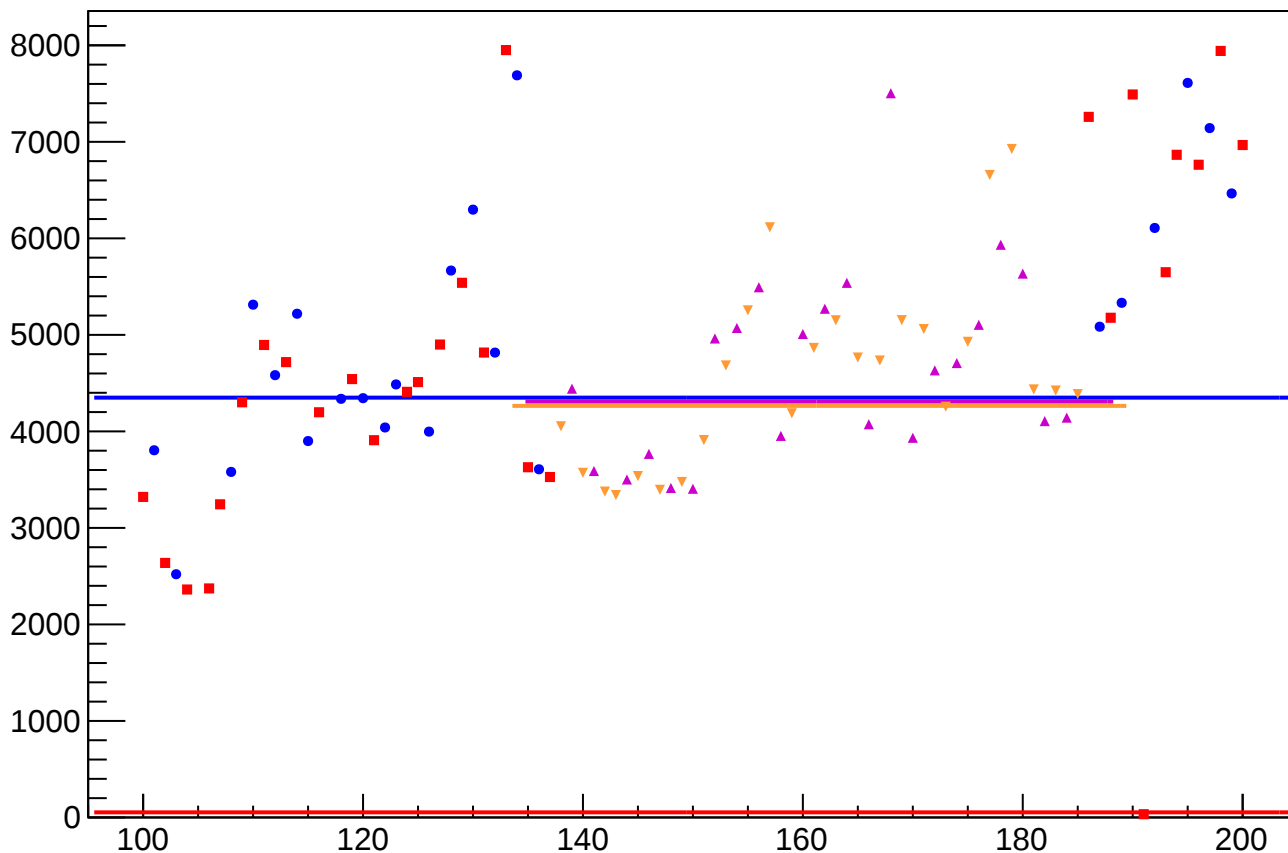
Right: 23.739 ± 85.654 χ^2/NDF : 51.5/50

In: 41.572 ± 843.353 χ^2/NDF : 38.7/45

Out: 17.244 ± 85.510 χ^2/NDF : 57.3/52

All: 17.492 ± 85.074 χ^2/NDF : 96.0/98

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4349.754+/-0.995 χ^2/NDF : 1901930.9/22

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 52.908+/-0.061 χ^2/NDF : 24551018.0/27

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

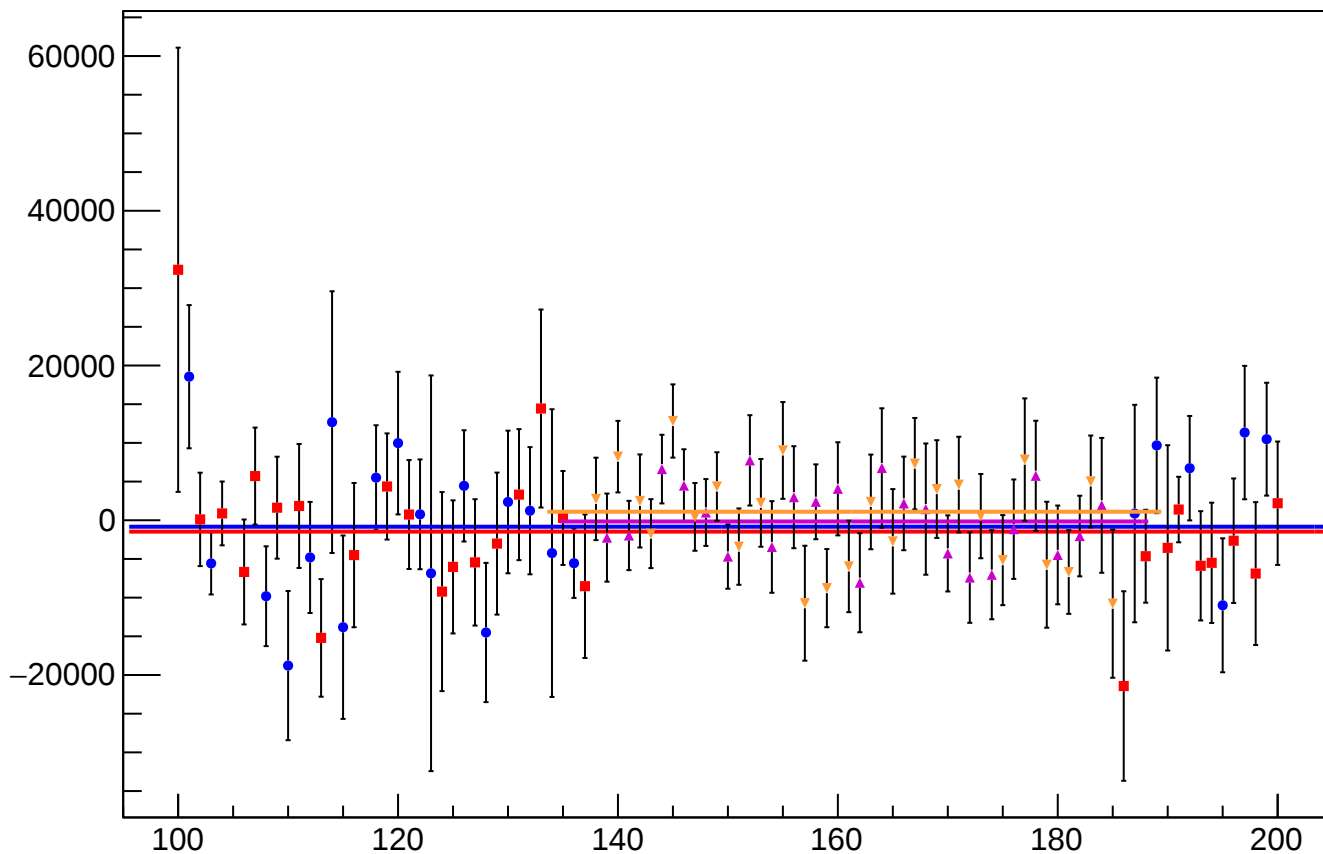
Right: 68.836+/-0.061 χ^2/NDF : 45040094.6/50

In: 4323.666+/-0.596 χ^2/NDF : 3208137.6/45

Out: 82.640+/-0.060 χ^2/NDF : 59913533.3/52

All: 125.797+/-0.060 χ^2/NDF : 113183969.4/52

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -834.139 ± 1601.799 χ^2/NDF : 28.3/22

Left Out: 1102.204 ± 1126.663 χ^2/NDF : 28.6/24

Right Out: -1466.710 ± 1381.204 χ^2/NDF : 16.4/27

Left In: -158.683 ± 1161.507 χ^2/NDF : 15.5/22

Left: 490.957 ± 808.709 χ^2/NDF : 44.7/47

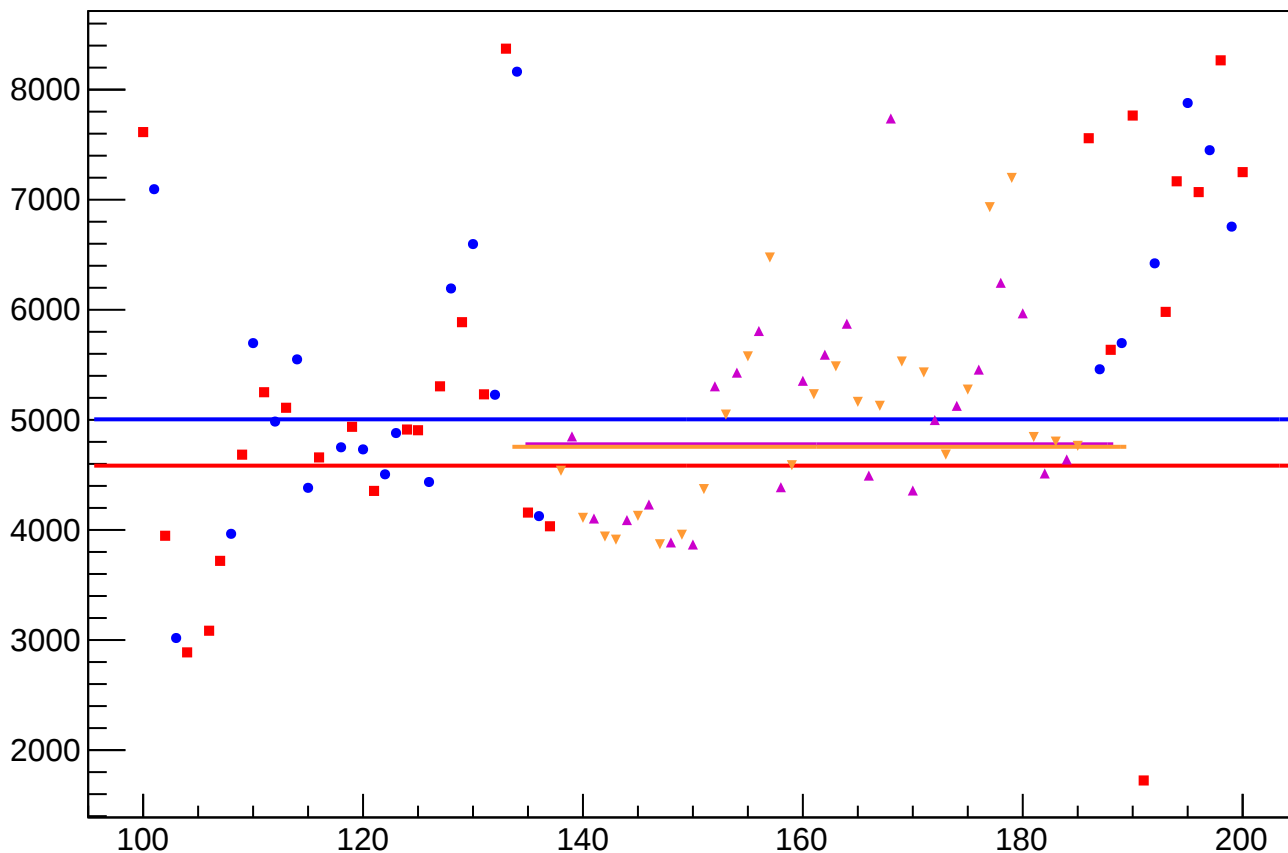
Right: -1196.949 ± 1046.027 χ^2/NDF : 44.8/50

In: -391.452 ± 940.312 χ^2/NDF : 44.0/45

Out: 75.825 ± 873.045 χ^2/NDF : 47.0/52

All: -140.504 ± 639.796 χ^2/NDF : 91.1/98

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5004.834 ± 1.133 $\chi^2/\text{NDF}: 1517217.0/22$

Left Out: 4755.383 ± 0.797 $\chi^2/\text{NDF}: 953328.0/24$

Right Out: 4584.147 ± 0.973 $\chi^2/\text{NDF}: 3070570.3/27$

Left In: 4777.831 ± 0.821 $\chi^2/\text{NDF}: 950291.2/22$

Left: 4766.265 ± 0.572 $\chi^2/\text{NDF}: 1904004.1/47$

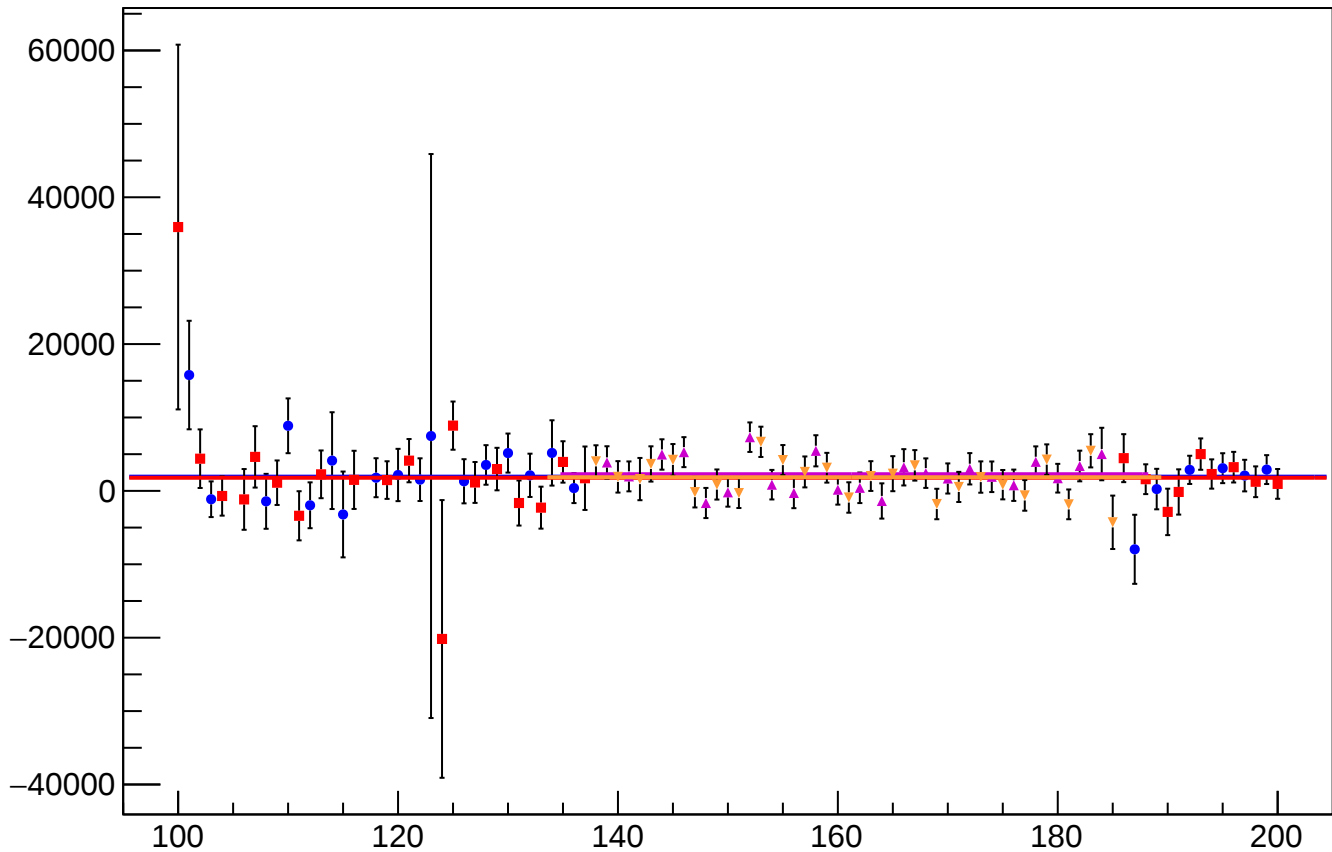
Right: 4762.784 ± 0.738 $\chi^2/\text{NDF}: 4667161.3/50$

In: 4856.058 ± 0.665 $\chi^2/\text{NDF}: 2493833.8/45$

Out: 4686.662 ± 0.616 $\chi^2/\text{NDF}: 4042439.1/52$

All: 4764.959 ± 0.452 $\chi^2/\text{NDF}: 6571179.2/98$

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1937.266+/-599.532 χ^2/NDF : 20.4/22

Left Out: 1856.570+/-430.977 χ^2/NDF : 30.0/24

Right Out: 1789.226+/-541.722 χ^2/NDF : 23.7/27

Left In: 2268.464+/-441.710 χ^2/NDF : 26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

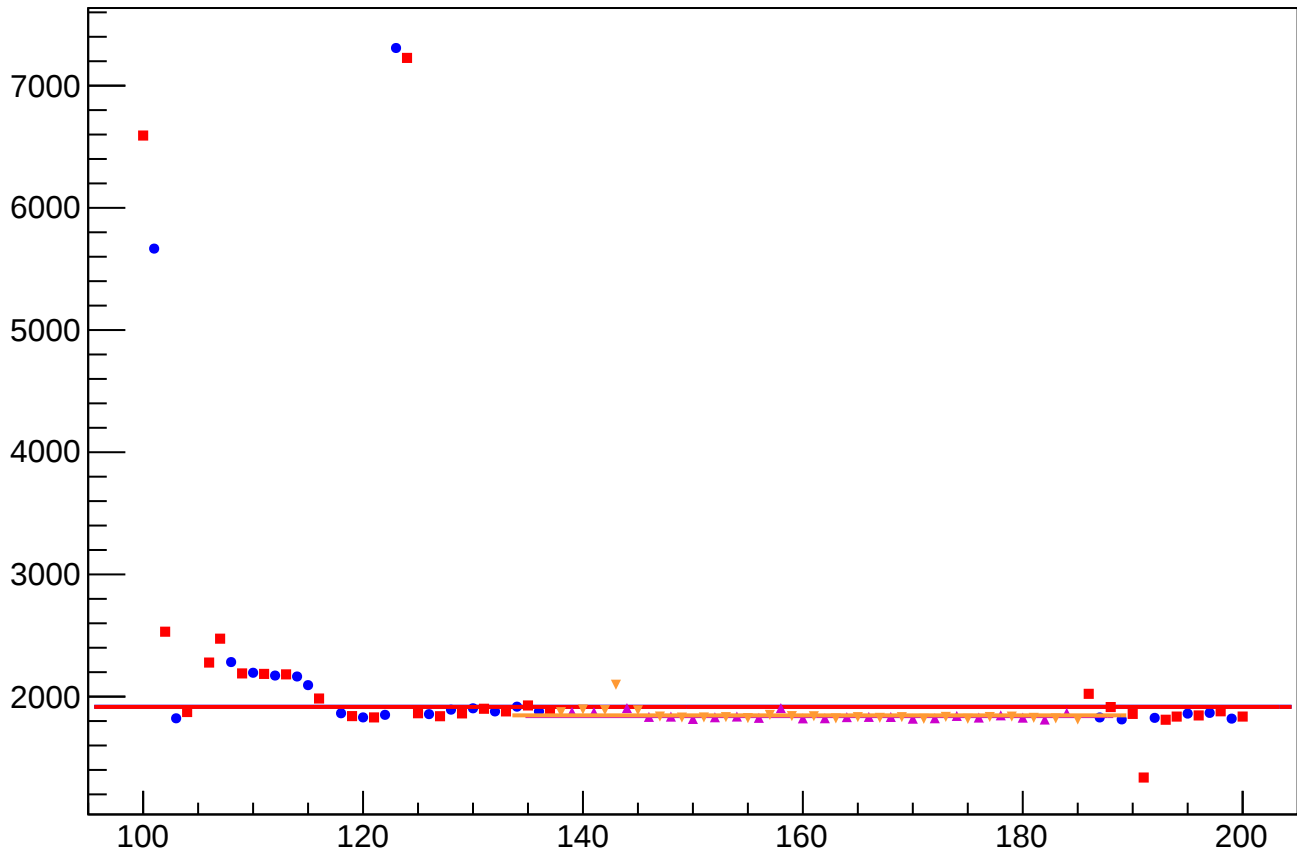
Right: 1855.766+/-401.944 χ^2/NDF : 44.1/50

In: 2151.938+/-355.616 χ^2/NDF : 47.5/45

Out: 1830.467+/-337.264 χ^2/NDF : 53.7/52

All: 1982.694+/-244.712 χ^2/NDF : 101.6/98

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1917.142+/-0.424 χ^2/NDF : 625788.0/22

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1915.716+/-0.383 χ^2/NDF : 464626.7/27

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

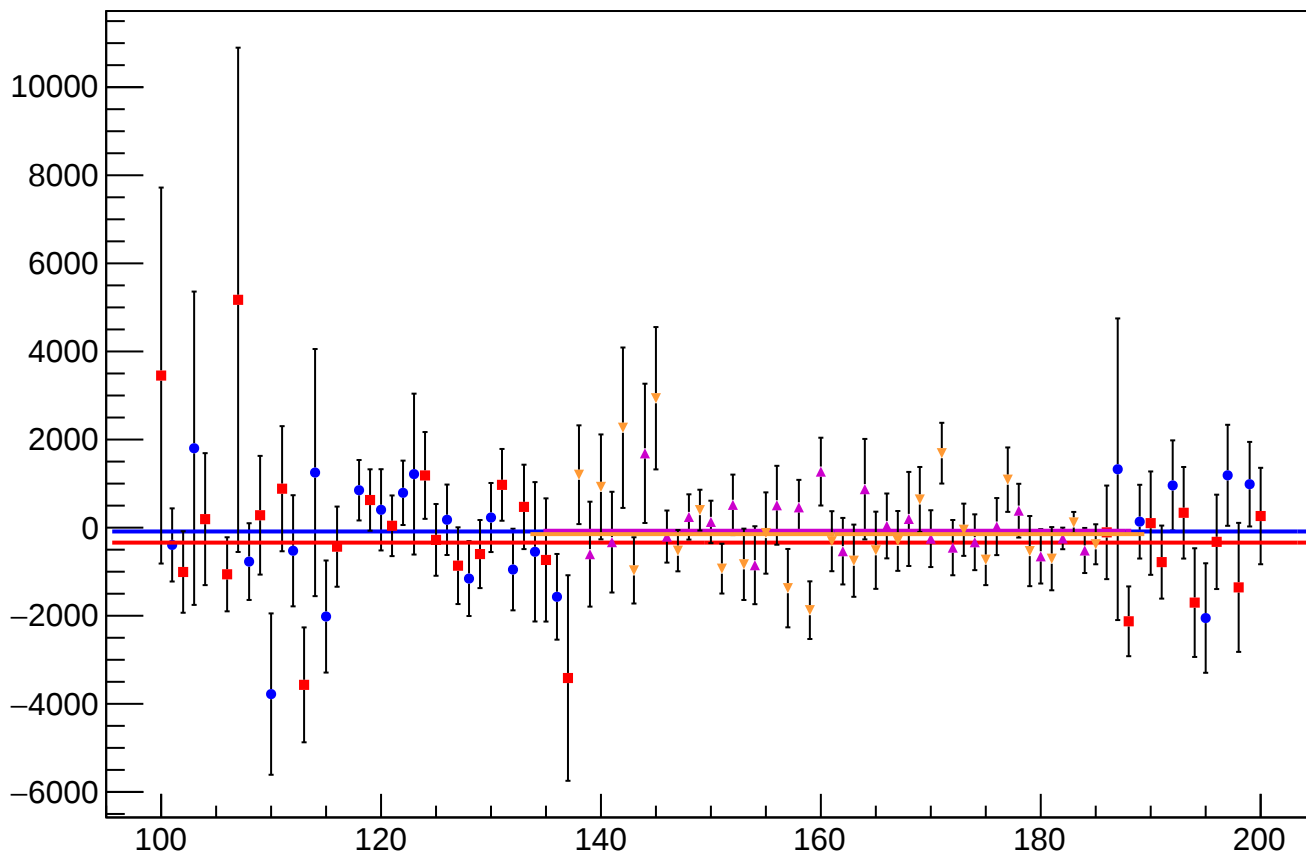
Right: 1916.357+/-0.284 χ^2/NDF : 1090420.9/50

In: 1867.492+/-0.251 χ^2/NDF : 653690.2/45

Out: 1873.391+/-0.238 χ^2/NDF : 511865.5/52

All: 1870.598+/-0.173 χ^2/NDF : 1165845.4/98

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -86.900 ± 212.485 χ^2/NDF : 23.3/22

Left Out: -146.999 ± 121.984 χ^2/NDF : 37.7/24

Right Out: -339.856 ± 191.185 χ^2/NDF : 28.4/27

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

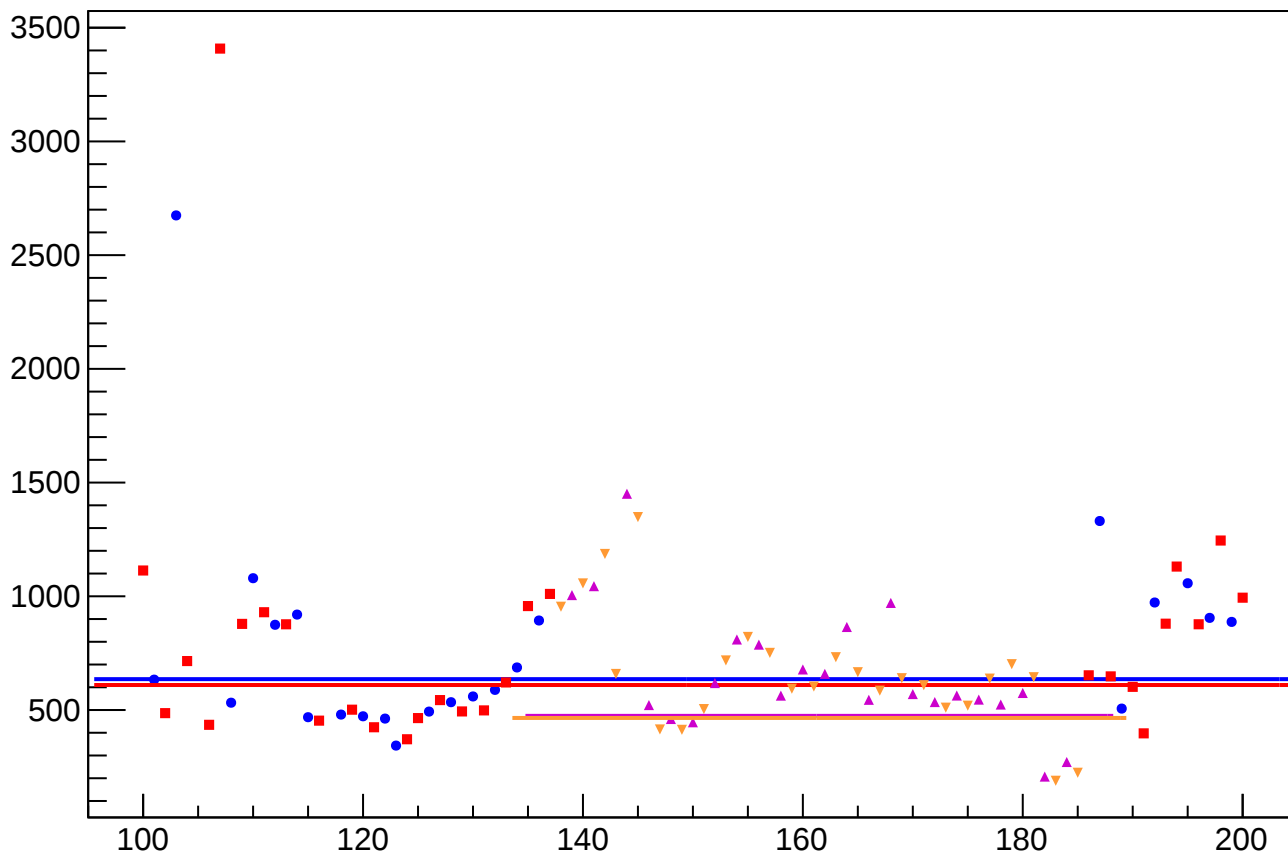
Right: -226.688 ± 142.124 χ^2/NDF : 52.5/50

In: -74.667 ± 108.615 χ^2/NDF : 35.6/45

Out: -202.795 ± 102.835 χ^2/NDF : 66.8/52

All: -142.231 ± 74.675 χ^2/NDF : 103.1/98

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 635.725 $\pm$ 0.150 χ^2 /NDF: 2343787.9/22

Left Out: 465.080 $\pm$ 0.086 χ^2 /NDF: 7086137.6/24

Right Out: 609.916 $\pm$ 0.135 χ^2 /NDF: 2990824.4/27

Left In: 474.263 $\pm$ 0.089 χ^2 /NDF: 6173100.1/22

Left: 469.509 $\pm$ 0.062 χ^2 /NDF: 13264703.6/47

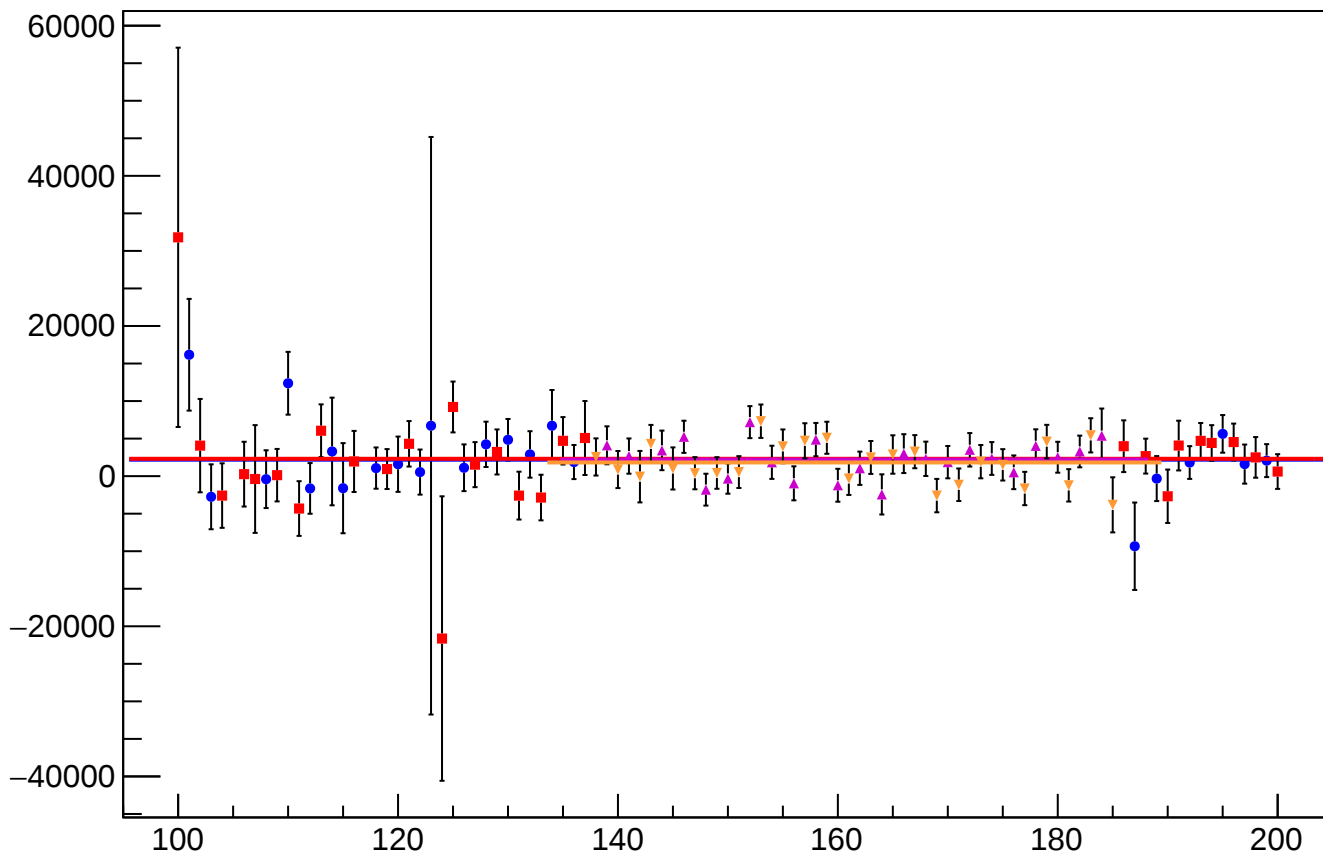
Right: 621.462 $\pm$ 0.100 χ^2 /NDF: 5350917.0/50

In: 516.451 $\pm$ 0.077 χ^2 /NDF: 9369959.6/45

Out: 506.984 $\pm$ 0.073 χ^2 /NDF: 10892699.0/52

All: 511.459 $\pm$ 0.053 χ^2 /NDF: 20270671.3/98

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2193.855+/-674.228 χ^2/NDF : 22.5/22

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 2310.607+/-614.576 χ^2/NDF : 26.4/27

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

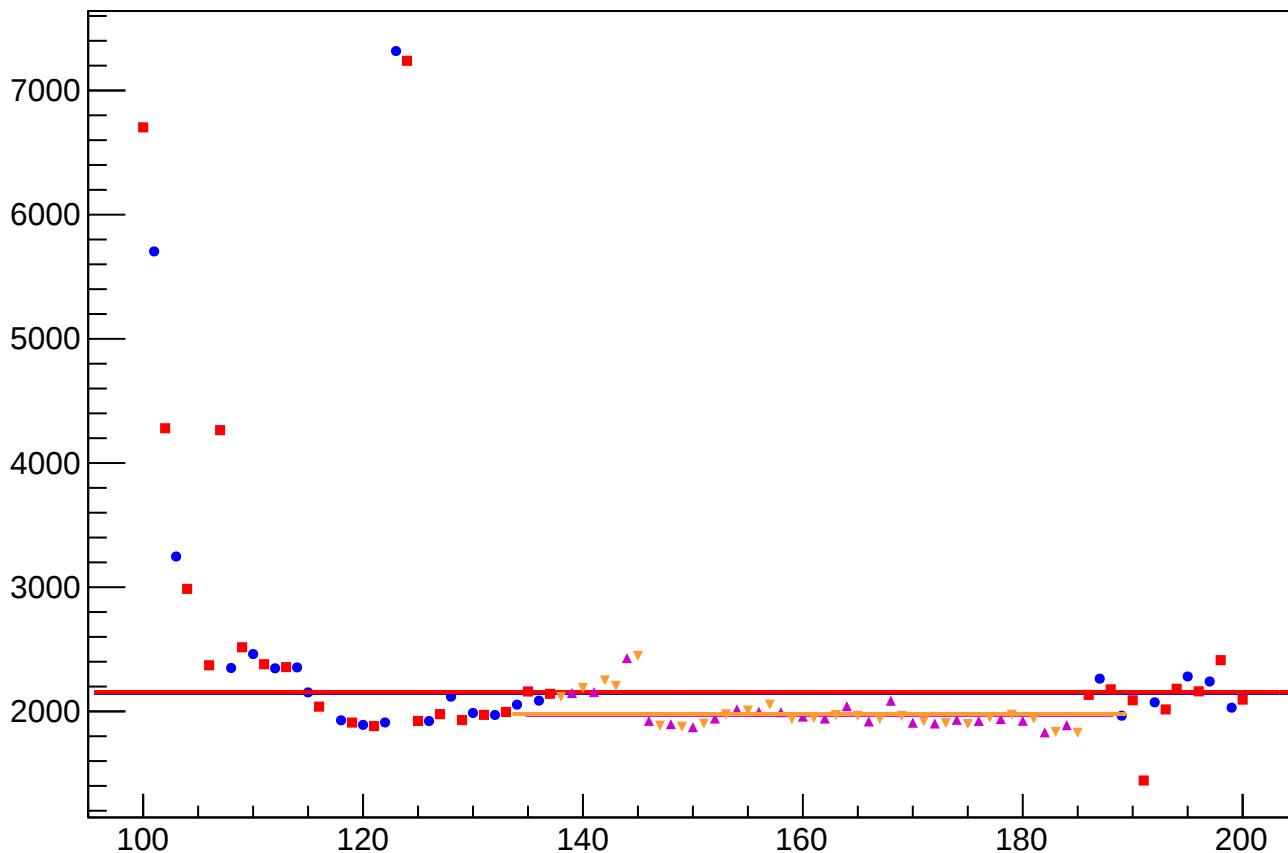
Right: 2257.623+/-454.199 χ^2/NDF : 48.9/50

In: 2203.397+/-387.791 χ^2/NDF : 47.8/45

Out: 2000.077+/-369.646 χ^2/NDF : 58.9/52

All: 2096.869+/-267.564 χ^2/NDF : 106.9/98

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2148.519 $\pm$ 0.477 χ^2 /NDF: 733201.4/22

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF:139299.8/24

Right Out: 2155.958 $\pm$ 0.435 χ^2 /NDF: 925104.6/27

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

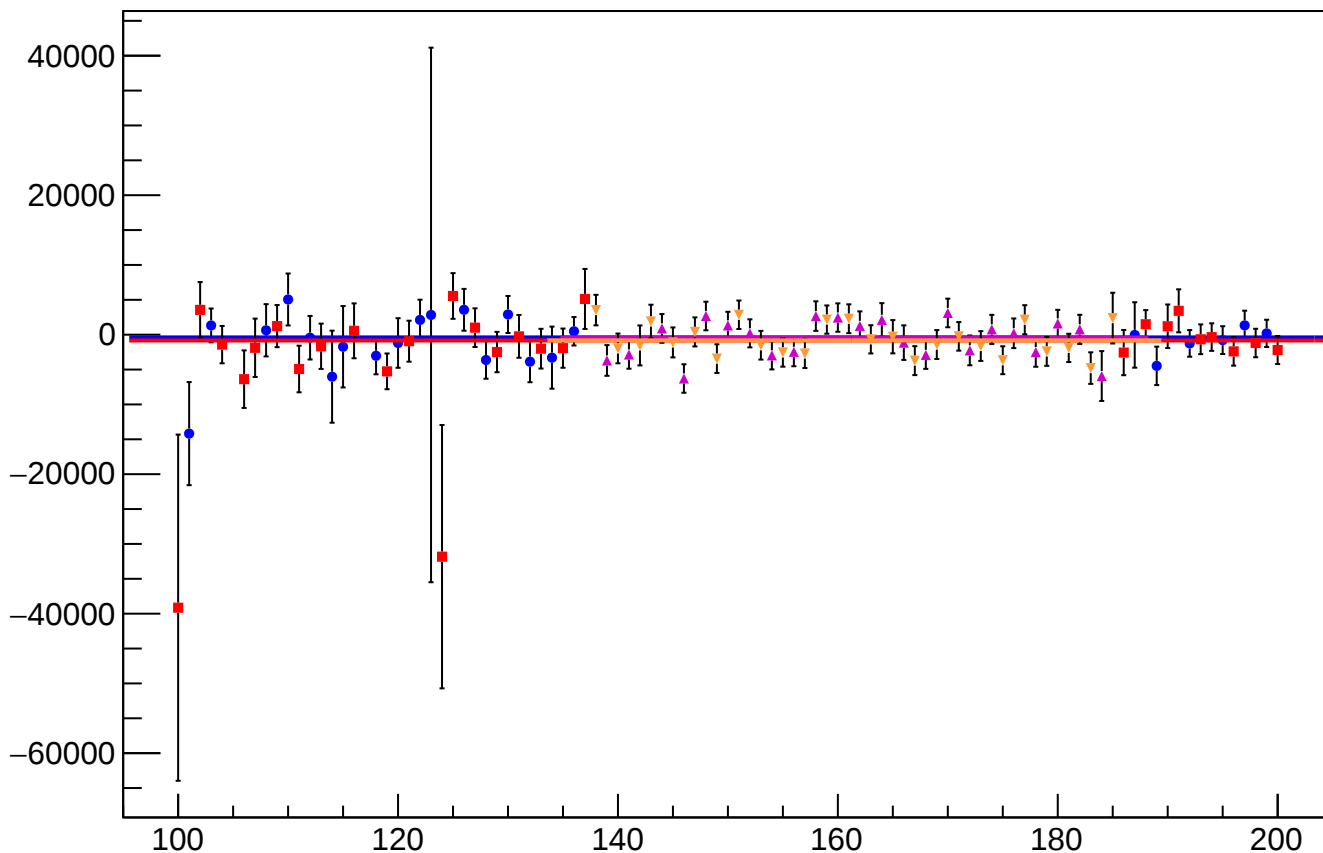
Right: 2152.582 $\pm$ 0.321 χ^2 /NDF: 1658439.0/50

In: 2030.506 $\pm$ 0.274 χ^2 /NDF:941218.4/45

Out: 2043.015 $\pm$ 0.261 χ^2 /NDF:1170236.5/52

All: 2037.060 $\pm$ 0.189 χ^2 /NDF: 2112545.2/98

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -388.665+/-596.010 χ^2/NDF : 18.7/22

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -830.324+/-538.253 χ^2/NDF : 25.3/27

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

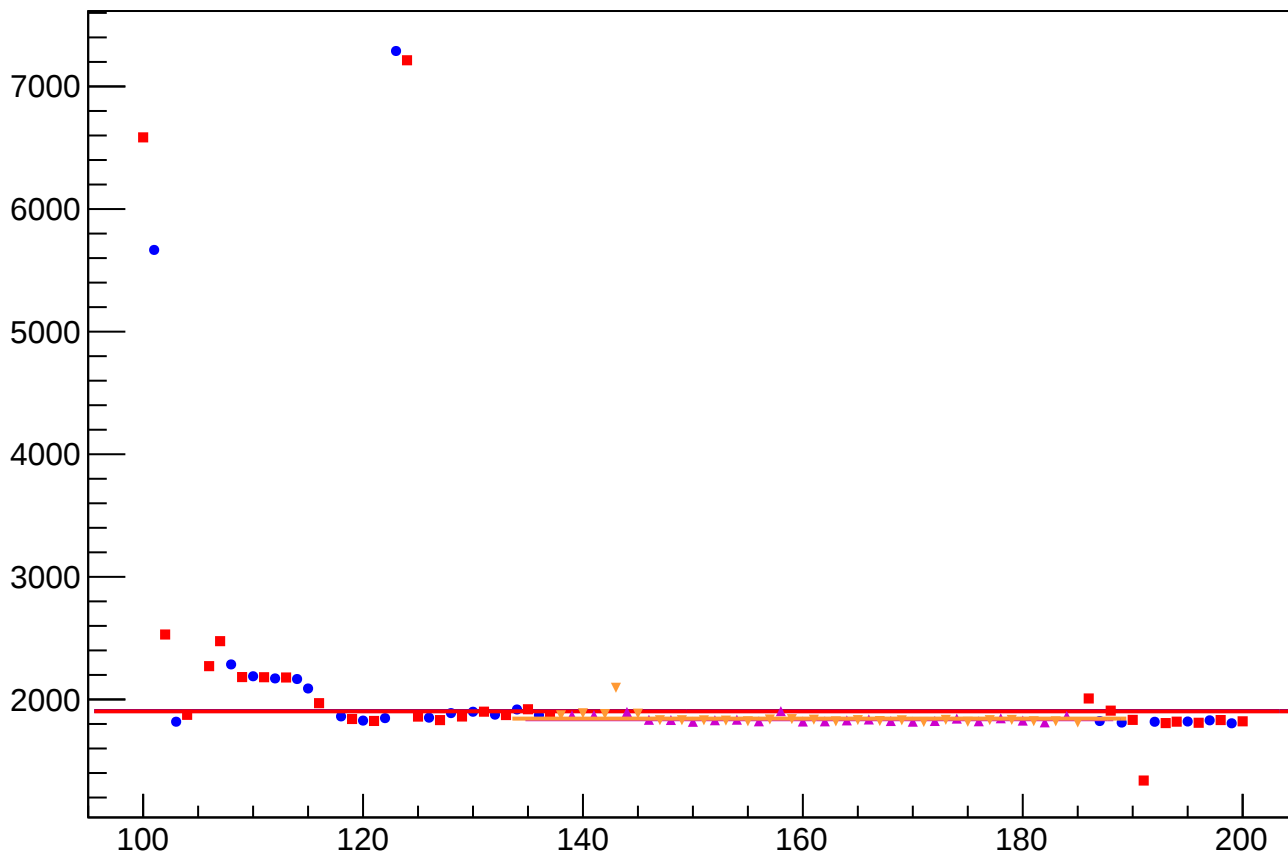
Right: -631.925+/-399.465 χ^2/NDF : 44.3/50

In: -395.210+/-354.635 χ^2/NDF : 53.1/45

Out: -816.970+/-336.102 χ^2/NDF : 53.2/52

All: -617.399+/-243.949 χ^2/NDF : 107.0/98

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1905.500+/-0.421 χ^2/NDF : 634113.0/22

Left Out: 1843.747+/-0.304 χ^2/NDF :26867.4/24

Right Out: 1903.230+/-0.381 χ^2/NDF : 471132.0/27

Left In: 1838.611+/-0.312 χ^2/NDF :6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

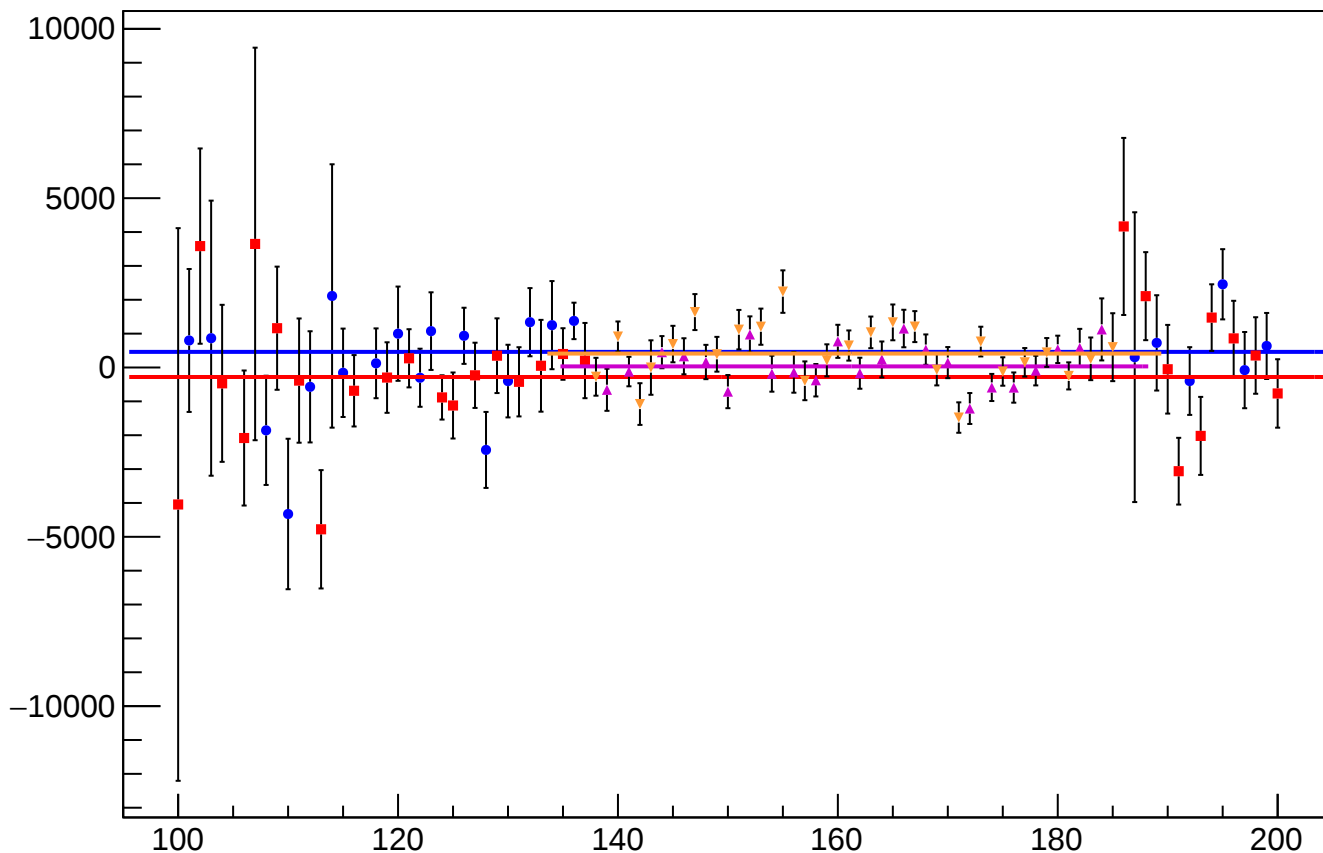
Right: 1904.250+/-0.282 χ^2/NDF : 1105261.0/50

In: 1862.293+/-0.251 χ^2/NDF :656720.0/45

Out: 1866.940+/-0.238 χ^2/NDF :512900.9/52

All: 1864.741+/-0.172 χ^2/NDF : 1169801.8/98

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 461.279 $\pm$ 235.993 χ^2/NDF : 25.3/22

Left Out: 411.072 $\pm$ 100.456 χ^2/NDF : 61.2/24

Right Out: -280.494 $\pm$ 219.511 χ^2/NDF : 35.4/27

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

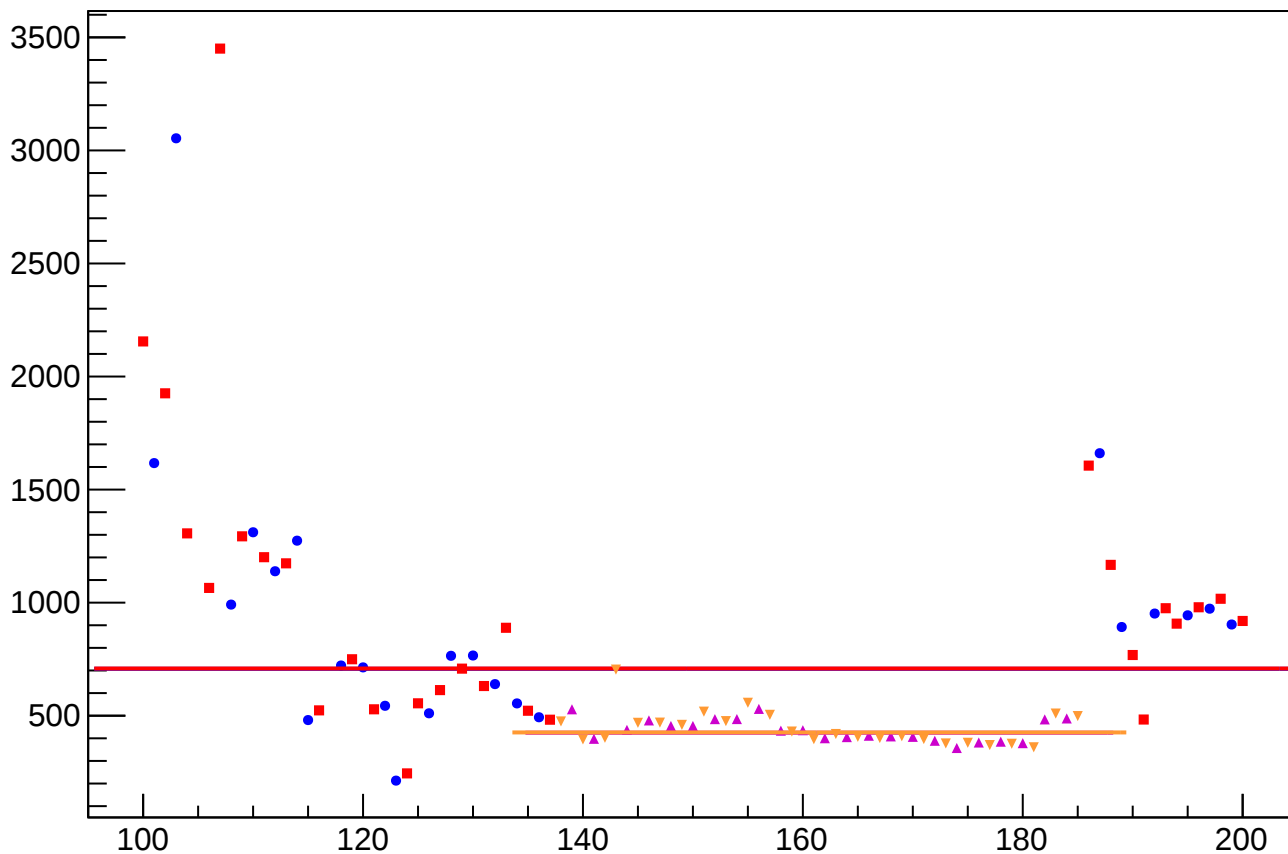
Right: 63.588 $\pm$ 160.729 χ^2/NDF : 66.0/50

In: 100.405 $\pm$ 93.940 χ^2/NDF : 60.8/45

Out: 291.317 $\pm$ 91.345 χ^2/NDF : 104.8/52

All: 198.535 $\pm$ 65.489 χ^2/NDF : 167.7/98

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 707.405 $\pm$ 0.167 χ^2 /NDF: 2962832.3/22

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 708.646 $\pm$ 0.155 χ^2 /NDF: 4172696.8/27

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

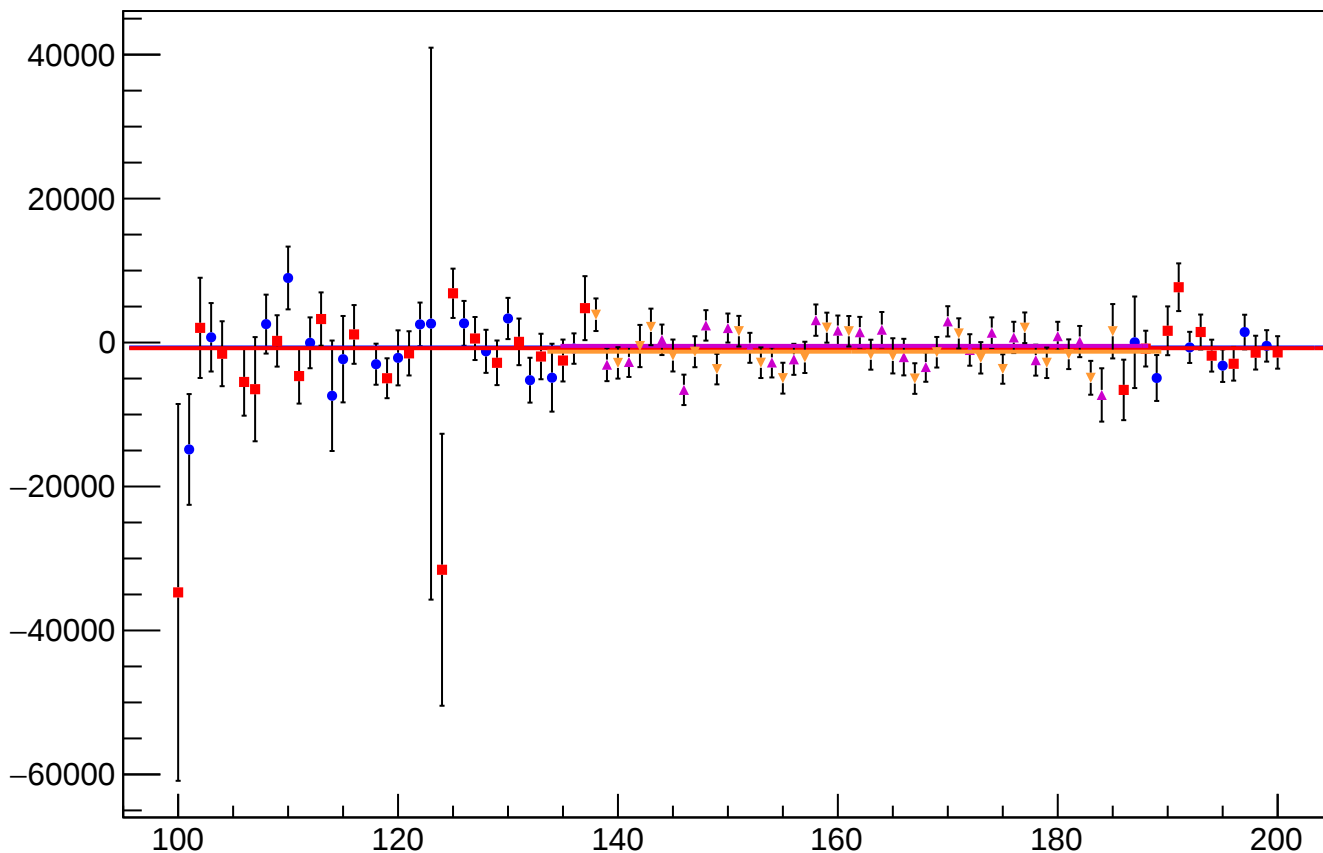
Right: 708.071 $\pm$ 0.114 χ^2 /NDF: 7135558.8/50

In: 469.444 $\pm$ 0.066 χ^2 /NDF: 5770827.0/45

Out: 474.967 $\pm$ 0.065 χ^2 /NDF: 7646951.3/52

All: 472.283 $\pm$ 0.046 χ^2 /NDF: 13421330.9/98

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -686.354 $\pm$ 670.666 χ^2 /NDF: 21.7/22

Left Out: -1267.885 $\pm$ 443.219 χ^2 /NDF:30.8/24

Right Out: -785.736 $\pm$ 614.171 χ^2 /NDF: 29.7/27

Left In: -462.599 $\pm$ 453.947 χ^2 /NDF:32.6/22

Left: -874.870 $\pm$ 317.128 χ^2 /NDF: 65.0/47

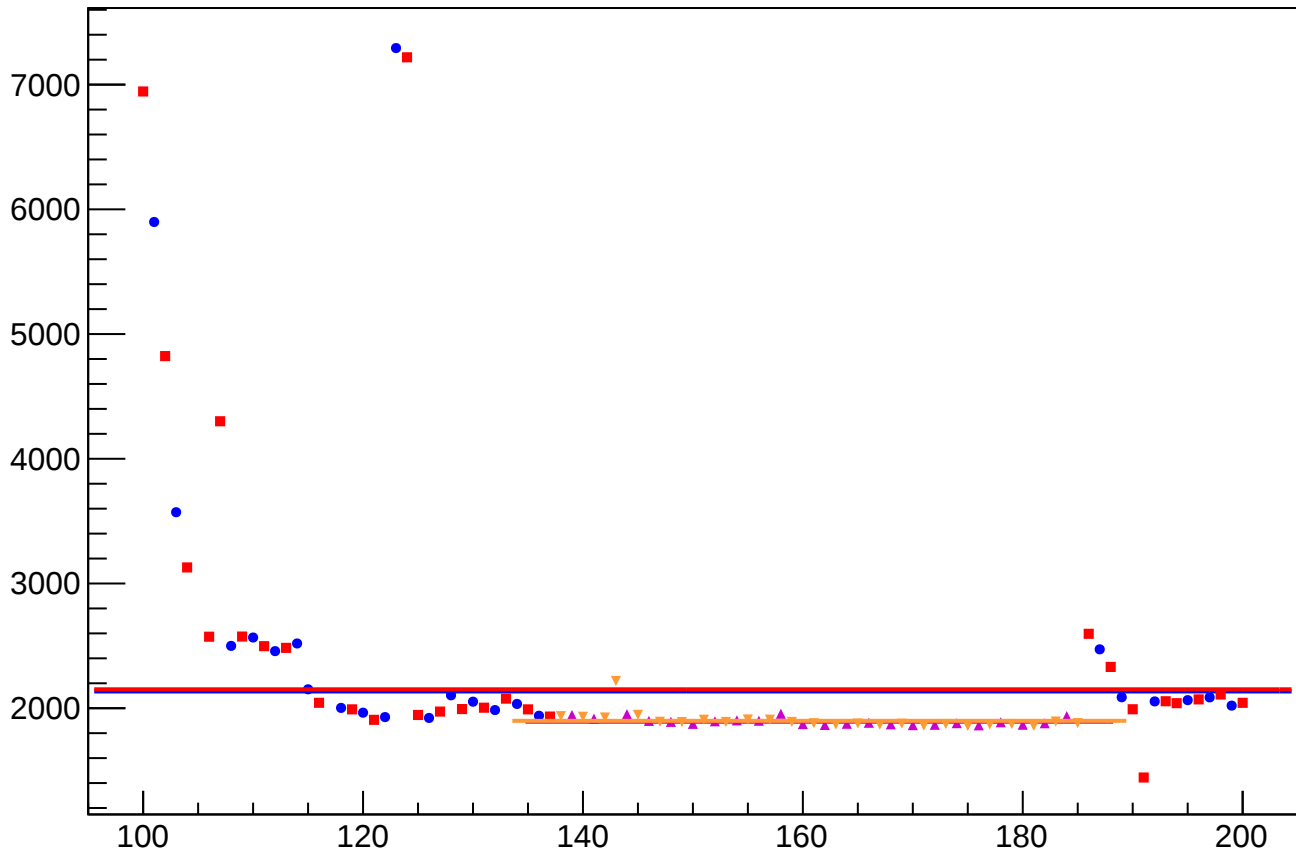
Right: -740.406 $\pm$ 452.943 χ^2 /NDF: 51.5/50

In: -532.902 $\pm$ 375.929 χ^2 /NDF:54.4/45

Out: -1102.776 $\pm$ 359.405 χ^2 /NDF:60.9/52

All: -830.638 $\pm$ 259.783 χ^2 /NDF: 116.5/98

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2134.440+/-0.474 χ^2/NDF : 823042.4/22

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2151.739+/-0.434 χ^2/NDF : 1053493.7/27

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

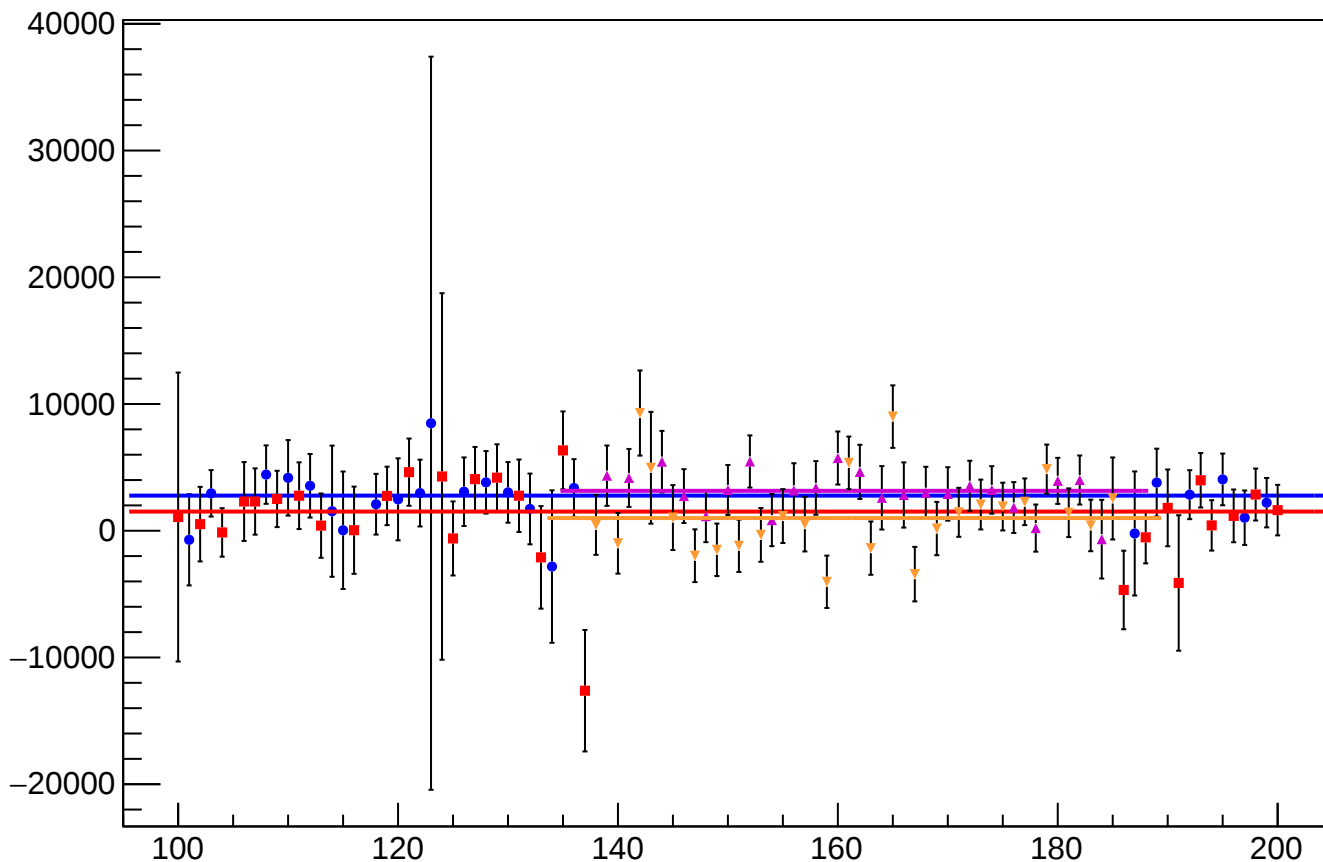
Right: 2143.849+/-0.320 χ^2/NDF : 1877259.7/50

In: 1967.963+/-0.266 χ^2/NDF : 1010154.9/45

Out: 1985.524+/-0.254 χ^2/NDF : 1314946.8/52

All: 1977.138+/-0.184 χ^2/NDF : 2327382.0/98

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2772.153+/-548.047 χ^2/NDF : 5.3/22

Left Out: 1001.263+/-435.247 χ^2/NDF : 44.6/24

Right Out: 1513.607+/-500.479 χ^2/NDF : 26.4/27

Left In: 3150.437+/-441.145 χ^2/NDF : 11.8/22

Left: 2061.387+/-309.830 χ^2/NDF : 68.5/47

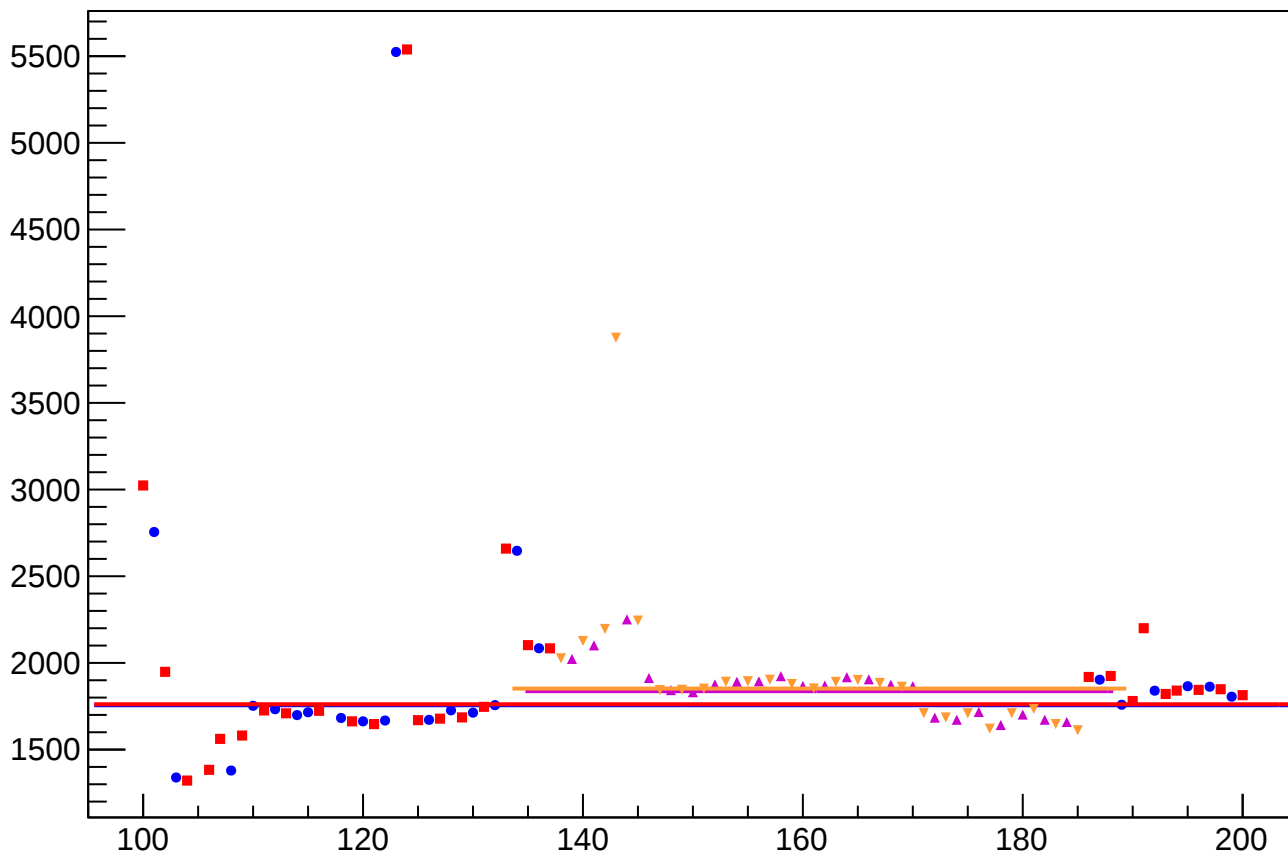
Right: 2085.901+/-369.567 χ^2/NDF : 34.5/50

In: 3001.704+/-343.647 χ^2/NDF : 17.4/45

Out: 1221.891+/-328.424 χ^2/NDF : 71.6/52

All: 2071.505+/-237.430 χ^2/NDF : 103.0/98

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1755.926 $\pm$ 0.388 χ^2 /NDF: 457639.4/22

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1761.466 $\pm$ 0.354 χ^2 /NDF: 520518.2/27

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

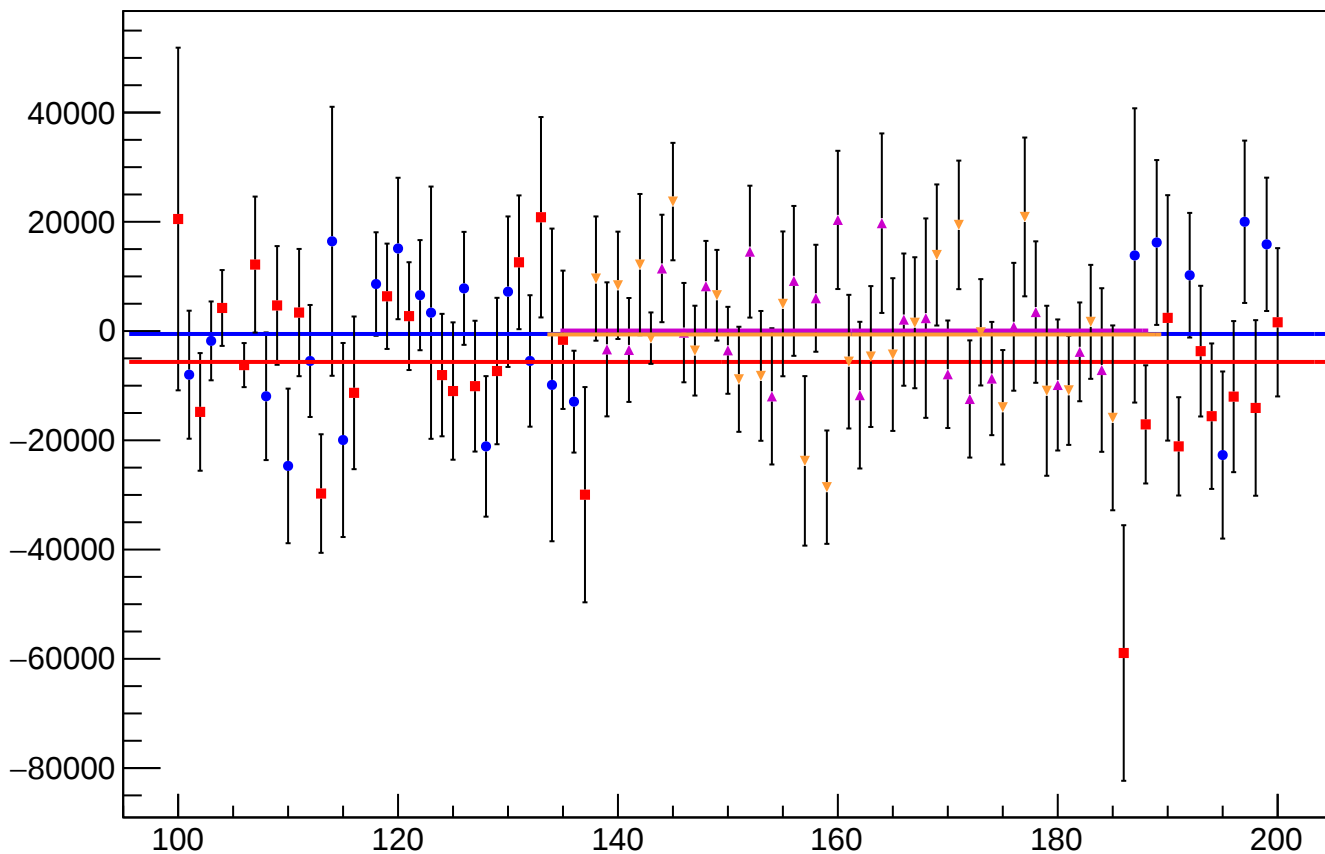
Right: 1758.947 $\pm$ 0.261 χ^2 /NDF: 978269.0/50

In: 1805.215 $\pm$ 0.243 χ^2 /NDF: 684811.3/45

Out: 1812.990 $\pm$ 0.232 χ^2 /NDF: 1206701.8/52

All: 1809.279 $\pm$ 0.168 χ^2 /NDF: 1892048.2/98

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -534.710 $\pm$ 2571.368 χ^2 /NDF: 22.9/22

Left Out: -619.372 $\pm$ 2069.686 χ^2 /NDF:30.1/24

Right Out: -5654.593 $\pm$ 2016.323 χ^2 /NDF: 31.4/27

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

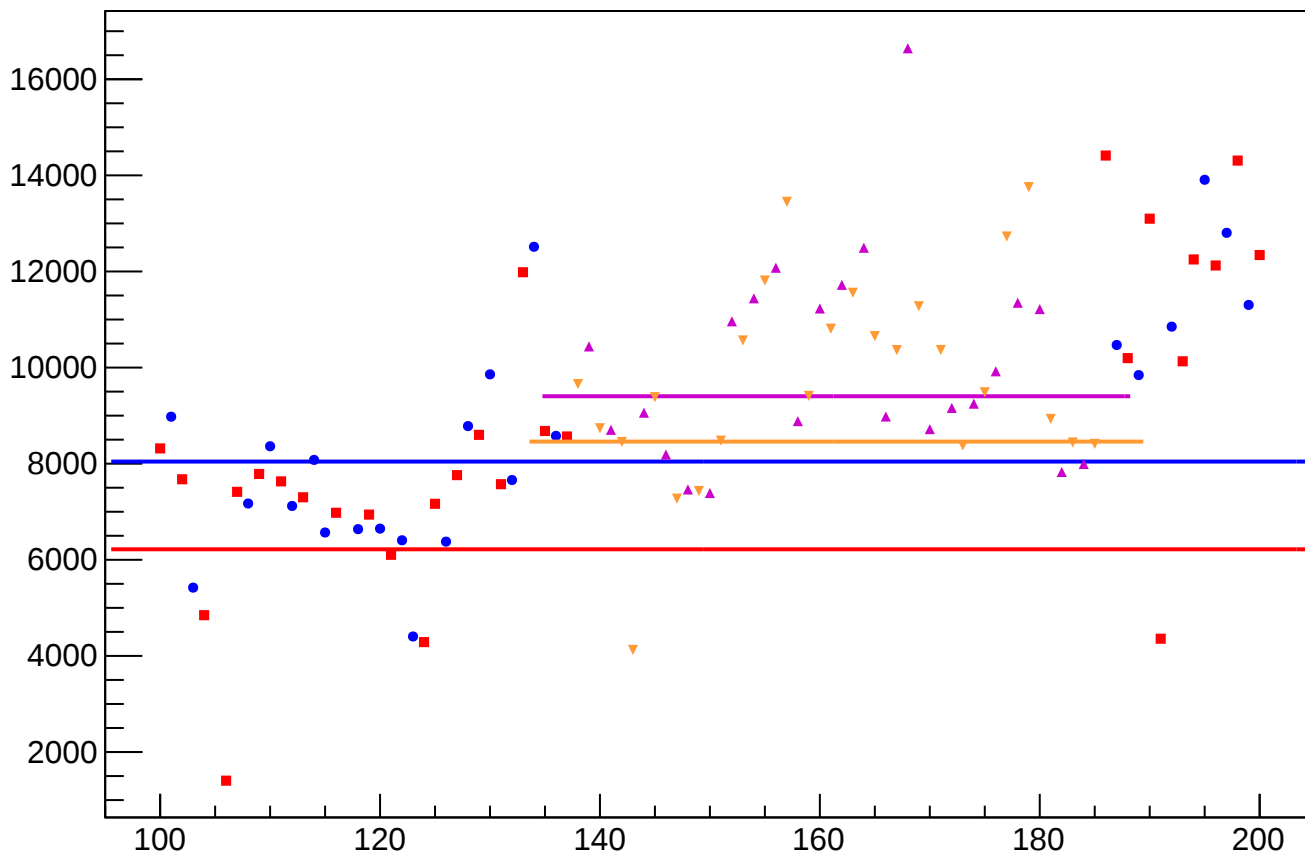
Right: -3705.149 $\pm$ 1586.681 χ^2 /NDF: 56.8/50

In: -184.976 $\pm$ 1711.725 χ^2 /NDF:37.6/45

Out: -3202.732 $\pm$ 1444.253 χ^2 /NDF:64.6/52

All: -1947.788 $\pm$ 1103.835 χ^2 /NDF: 104.0/98

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8044.343+/-1.818

χ^2/NDF : 1447339.6/22

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

Right: 6913.908+/-1.122 χ^2/NDF : 8356811.9/50

Left Out: 8459.960+/-1.463

χ^2/NDF : 3087200.5/24

In: 8801.195+/-1.210 χ^2/NDF : 2901140.7/45

Right Out: 6218.825+/-1.426

χ^2/NDF : 6285258.7/27

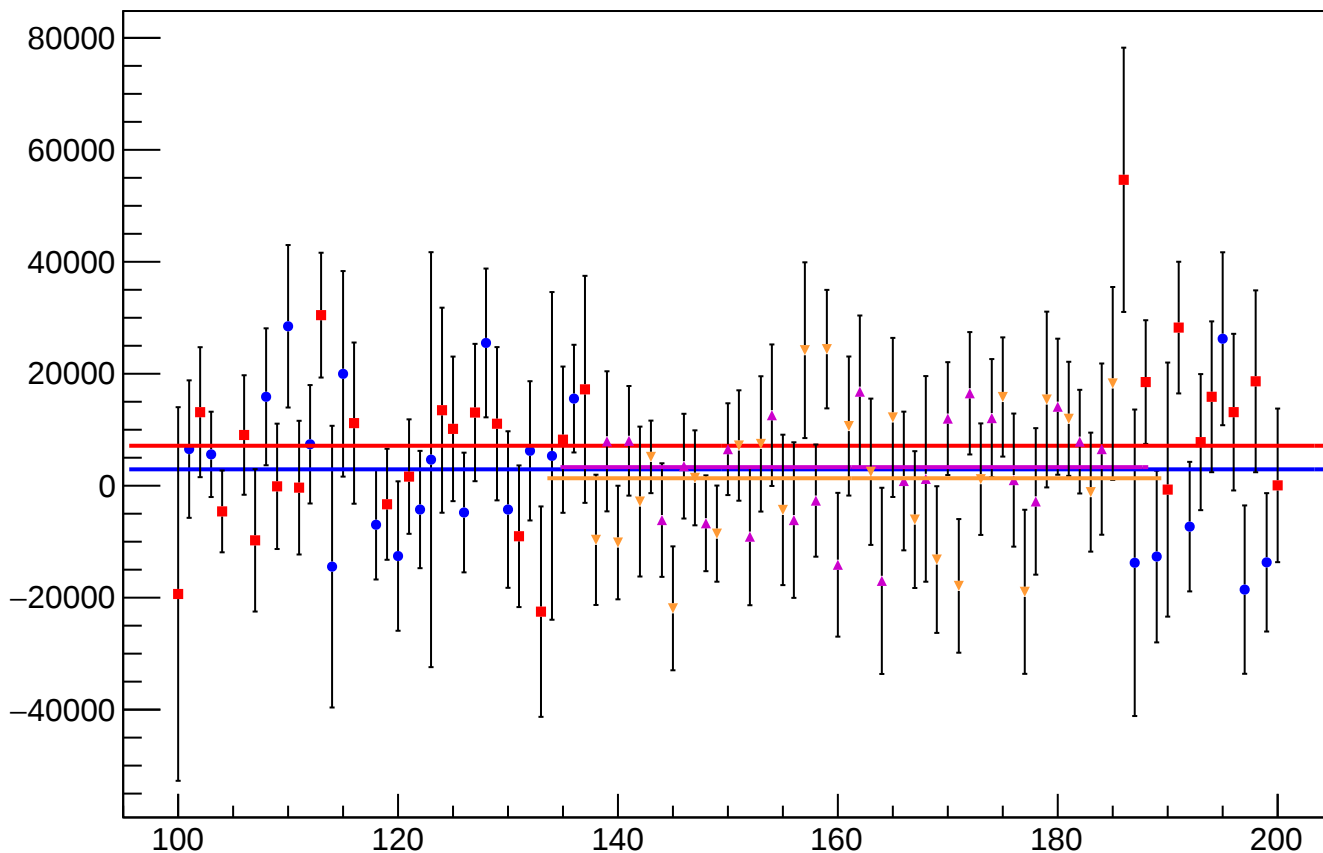
Out: 7310.128+/-1.021 χ^2/NDF : 10575619.5/52

Left In: 9403.481+/-1.622

χ^2/NDF : 1142646.9/22

All: 7930.193+/-0.781 χ^2/NDF : 14363258.7/9

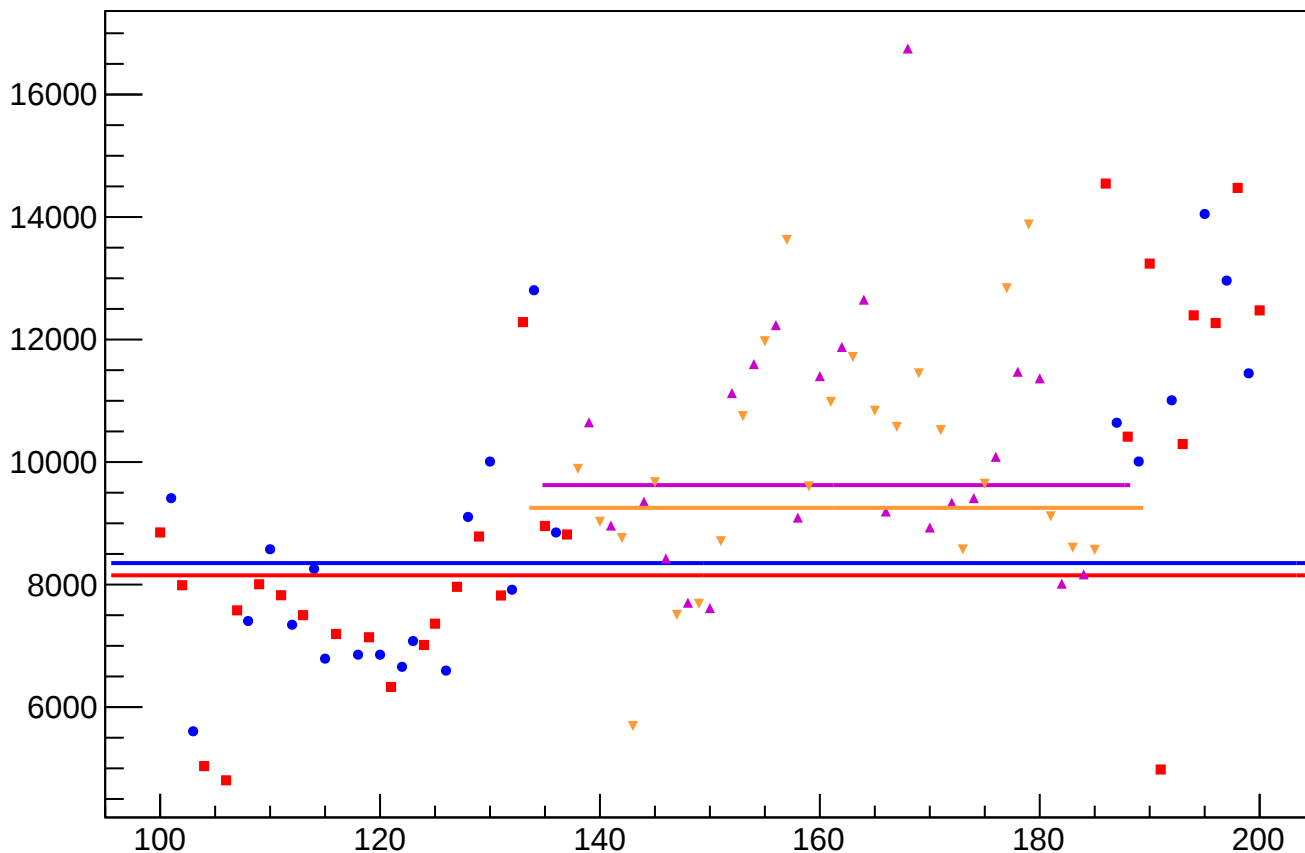
asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2924.546 $\pm$ 2664.526 χ^2 /NDF: 22.6/22
 Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF:28.0/24
 Right Out: 7138.512 $\pm$ 2400.290 χ^2 /NDF: 26.6/27
 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: 5250.779 $\pm$ 1783.384 χ^2 /NDF: 50.6/50
 In: 3145.690 $\pm$ 1760.159 χ^2 /NDF:36.3/45
 Out: 4001.315 $\pm$ 1627.307 χ^2 /NDF:57.8/52
 All: 3607.007 $\pm$ 1194.889 χ^2 /NDF: 94.3/98

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 8350.951 $\pm$ 1.884 χ^2/NDF : 1317444.8/22

Left Out: 9252.712 $\pm$ 1.565 χ^2/NDF : 1597668.9/24

Right Out: 8150.944 $\pm$ 1.697 χ^2/NDF : 2207681.1/27

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

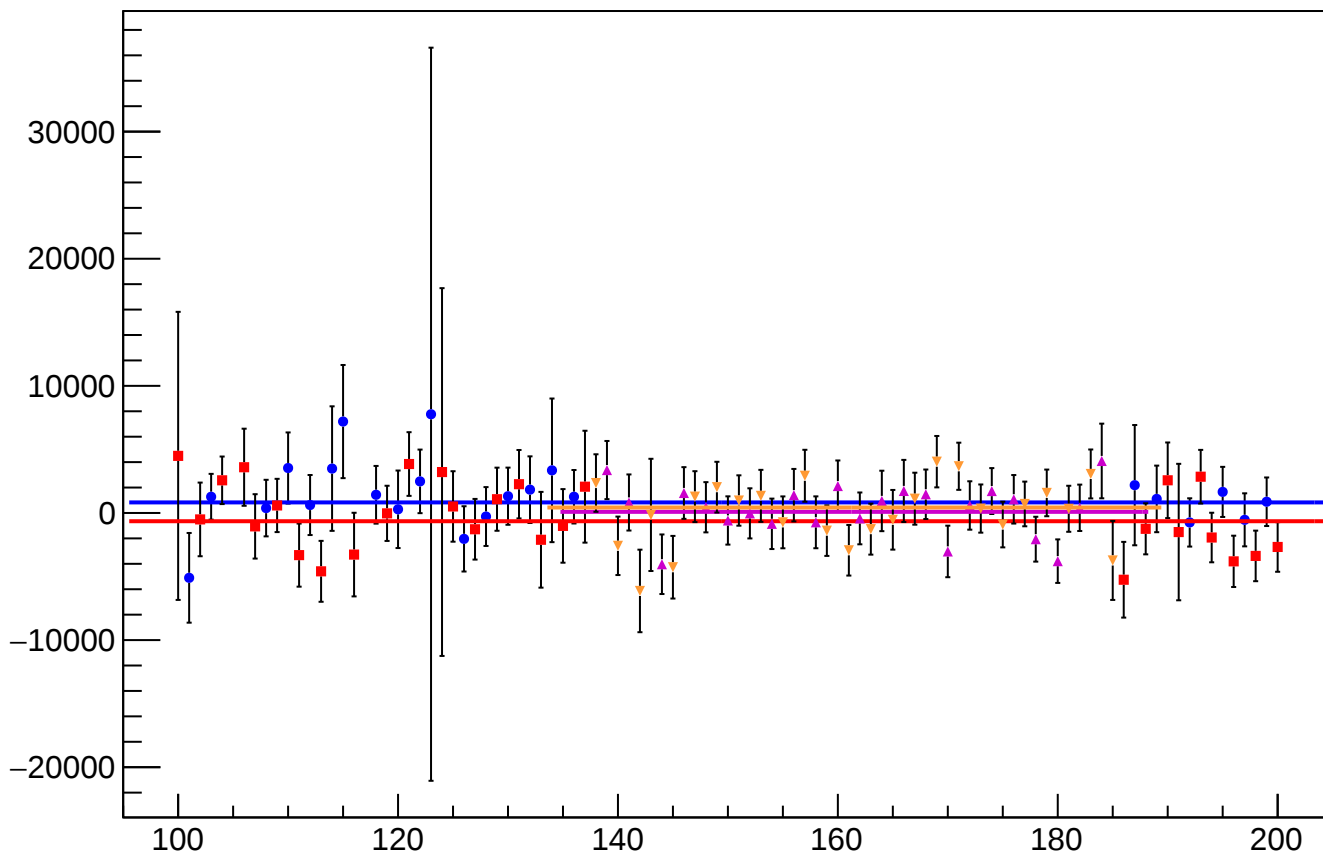
Right: 8240.534 $\pm$ 1.261 χ^2/NDF : 3531347.3/50

In: 9068.165 $\pm$ 1.245 χ^2/NDF : 2644483.4/45

Out: 8746.250 $\pm$ 1.151 χ^2/NDF : 4033078.3/52

All: 8894.596 $\pm$ 0.845 χ^2/NDF : 6713631.9/98

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 830.432+/-525.478 χ^2/NDF : 10.1/22

Left Out: 429.447+/-416.378 χ^2/NDF : 28.7/24

Right Out: -649.163+/-481.371 χ^2/NDF : 28.1/27

Left In: 88.373+/-421.957 χ^2/NDF : 21.0/22

Left: 261.180+/-296.376 χ^2/NDF : 50.0/47

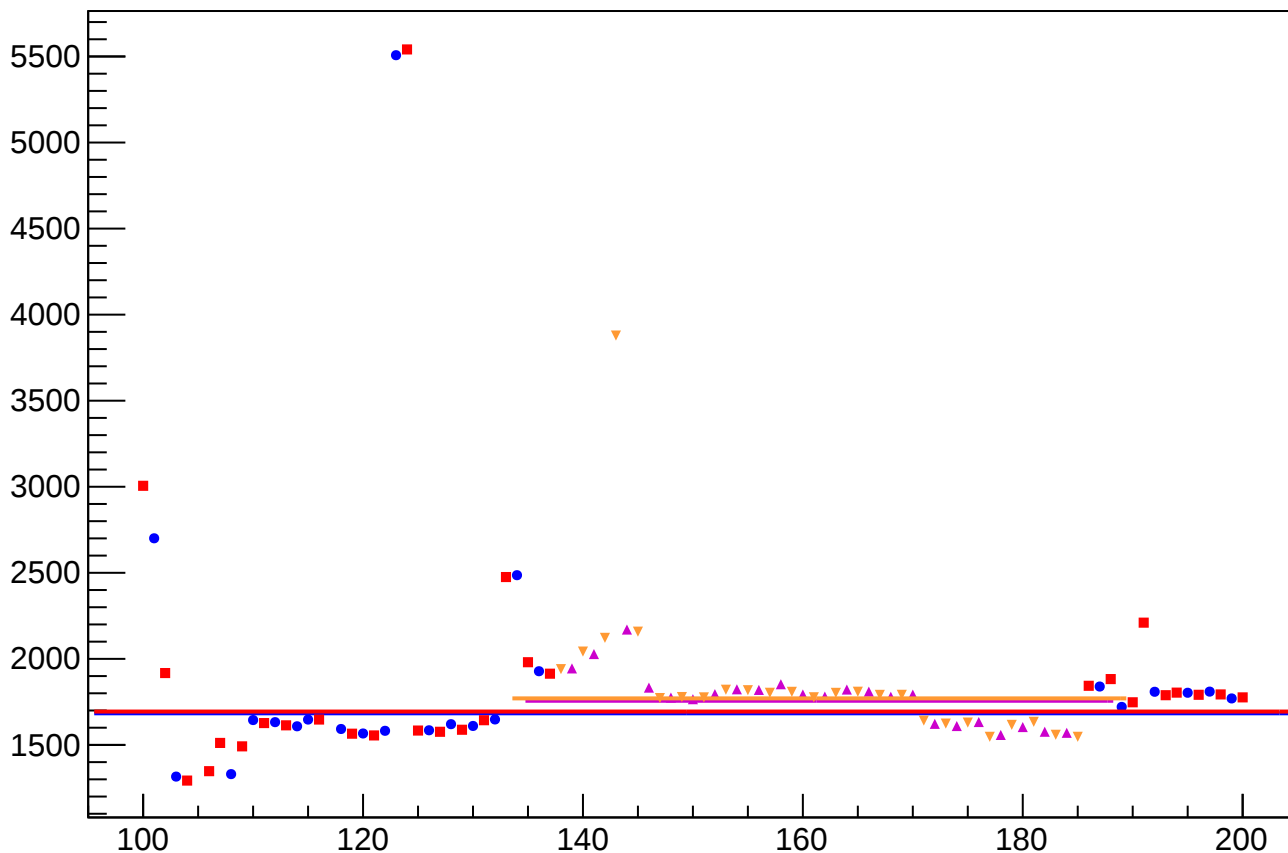
Right: 25.943+/-354.951 χ^2/NDF : 42.5/50

In: 379.279+/-329.012 χ^2/NDF : 32.3/45

Out: -32.178+/-314.915 χ^2/NDF : 59.7/52

All: 164.547+/-227.499 χ^2/NDF : 92.8/98

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1683.717 $\pm$ 0.372 χ^2 /NDF: 450933.5/22

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1693.895 $\pm$ 0.340 χ^2 /NDF: 533075.5/27

Left In: 1756.623 $\pm$ 0.298 χ^2 /NDF: 223077.6/22

Left: 1763.595 $\pm$ 0.210 χ^2 /NDF: 923692.1/47

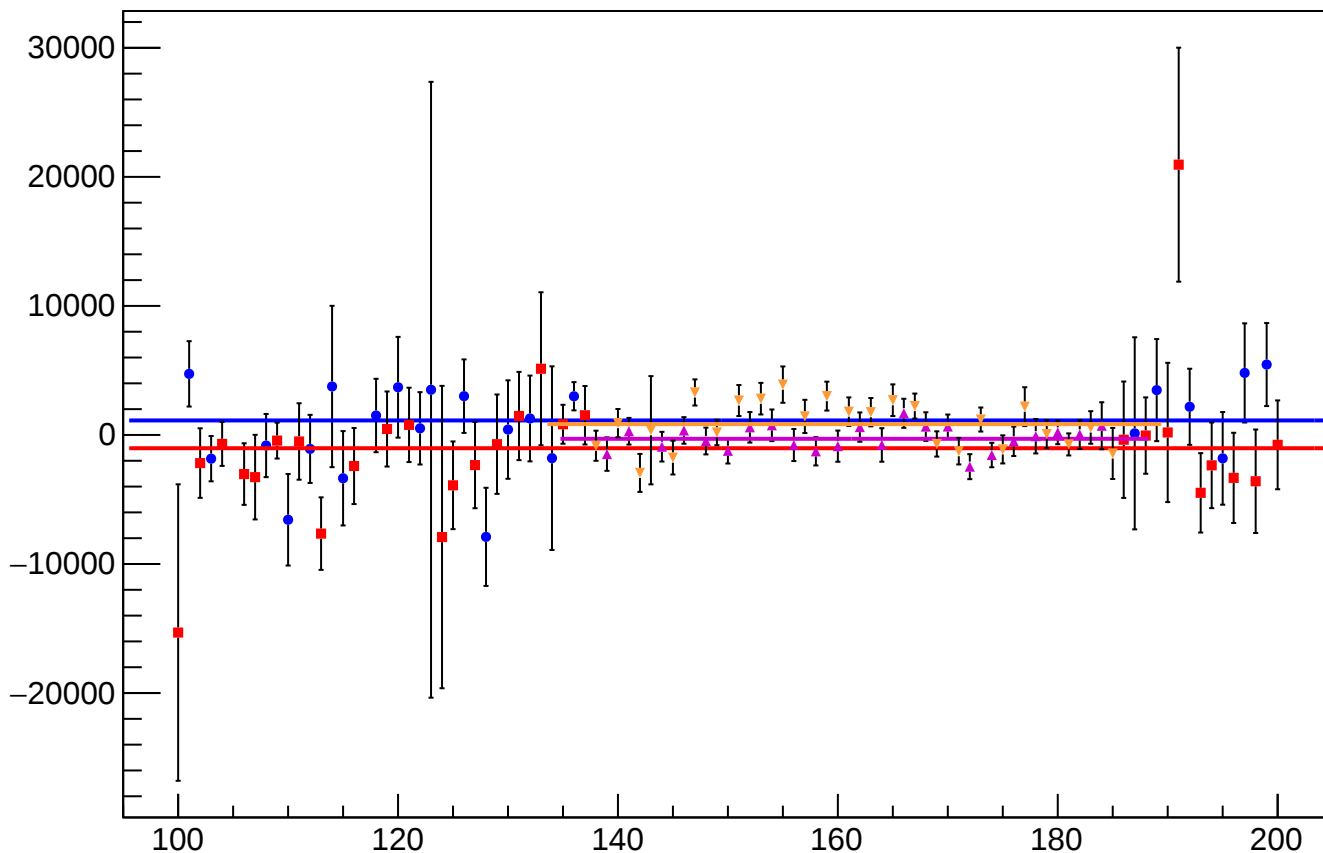
Right: 1689.251 $\pm$ 0.251 χ^2 /NDF: 984417.0/50

In: 1728.042 $\pm$ 0.233 χ^2 /NDF: 697417.2/45

Out: 1737.648 $\pm$ 0.223 χ^2 /NDF: 1261497.4/52

All: 1733.055 $\pm$ 0.161 χ^2 /NDF: 1959804.3/98

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1124.335+/-583.571 χ^2/NDF : 26.2/22

Left Out: 839.344+/-230.465 χ^2/NDF : 54.4/24

Right Out: -1027.683+/-534.295 χ^2/NDF : 23.5/27

Left In: -298.801+/-231.400 χ^2/NDF : 18.3/22

Left: 272.574+/-163.293 χ^2/NDF : 84.9/47

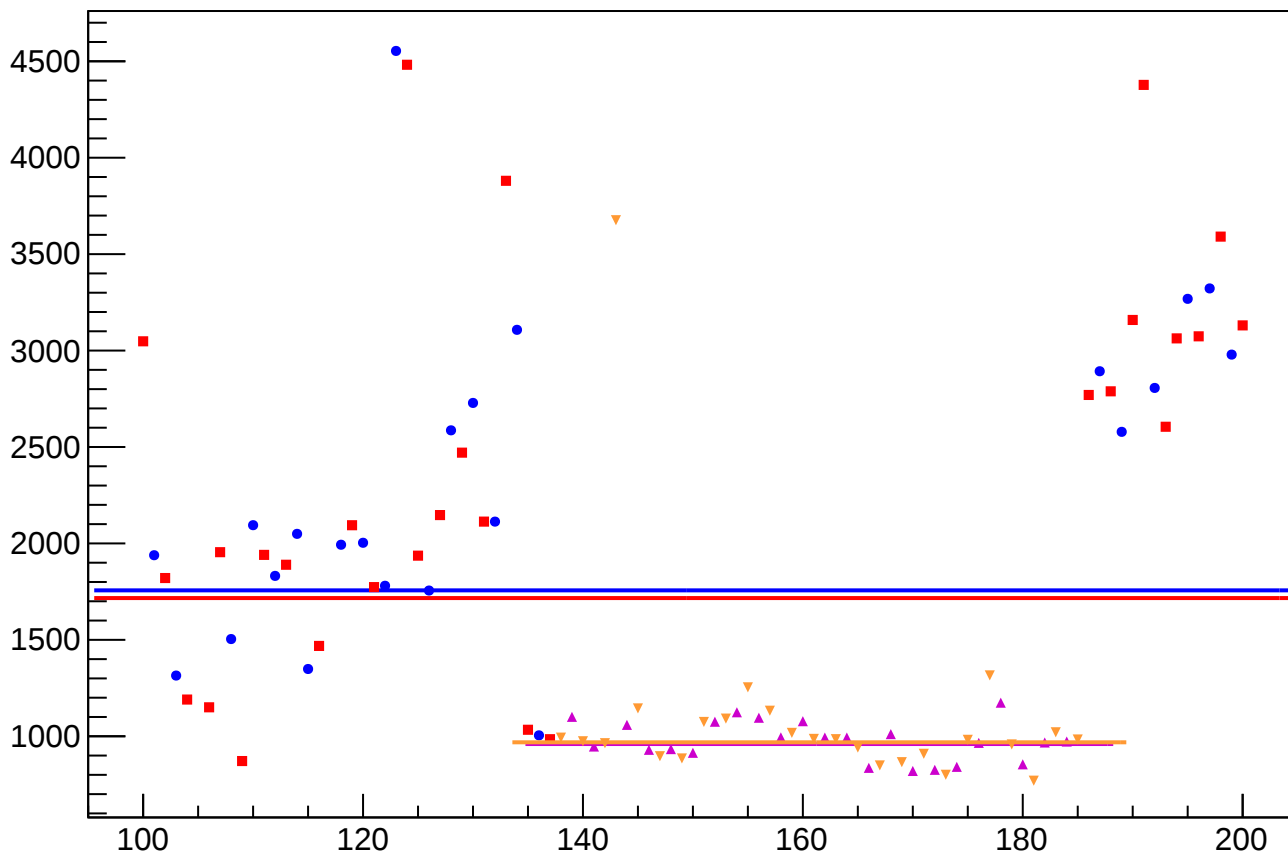
Right: -46.351+/-394.075 χ^2/NDF : 57.1/50

In: -105.442+/-215.106 χ^2/NDF : 49.7/45

Out: 546.462+/-211.618 χ^2/NDF : 88.2/52

All: 225.838+/-150.855 χ^2/NDF : 142.6/98

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1756.610+/-0.413 χ^2/NDF : 2884588.2/22

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1716.631+/-0.378 χ^2/NDF : 4550089.1/27

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

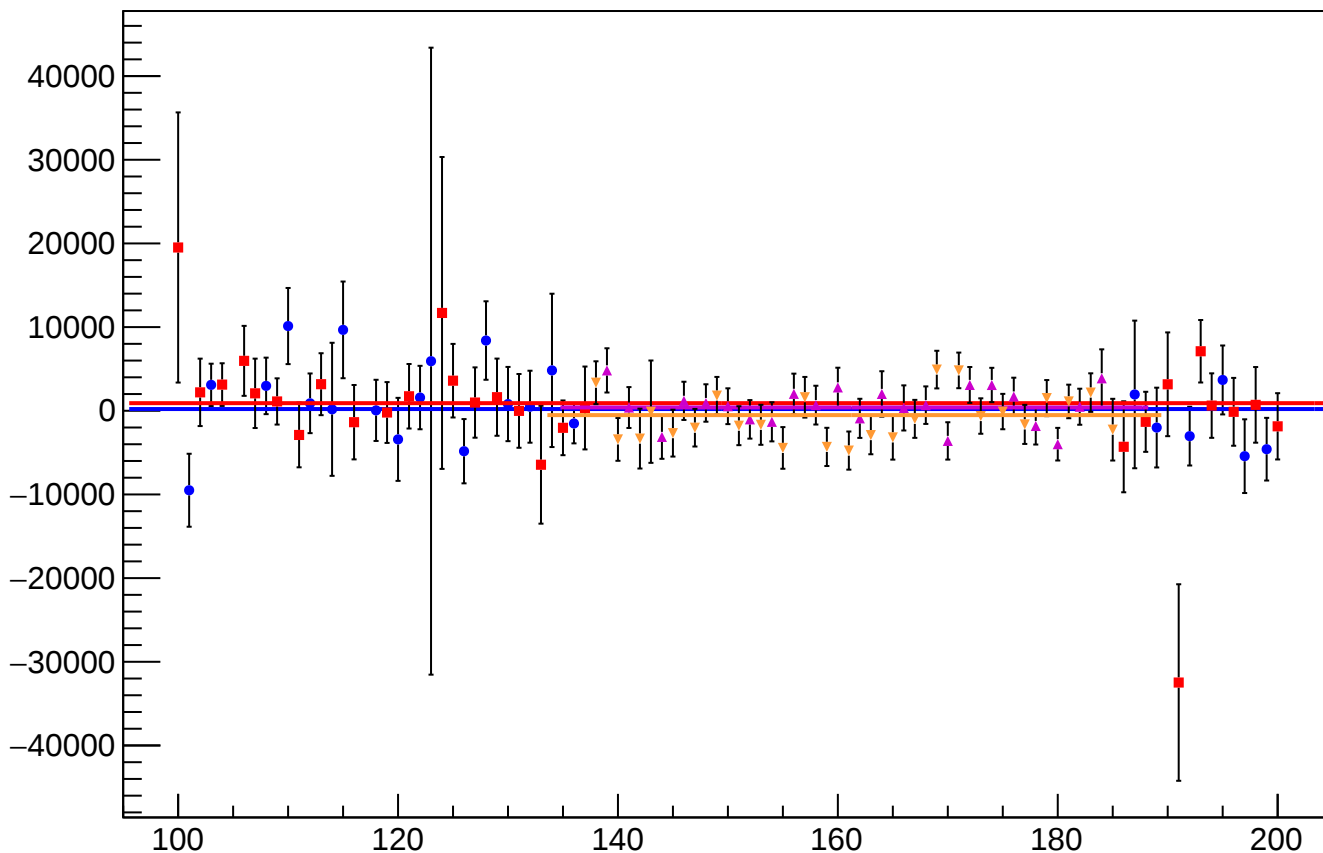
Right: 1734.862+/-0.279 χ^2/NDF : 7439783.5/50

In: 1068.065+/-0.152 χ^2/NDF : 6477811.7/45

Out: 1086.038+/-0.150 χ^2/NDF : 9248020.3/52

All: 1077.199+/-0.107 χ^2/NDF : 15732927.6/99

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 207.483+/-850.833 χ^2/NDF : 25.8/22

Left Out: -517.719+/-481.486 χ^2/NDF :34.0/24

Right Out: 909.713+/-785.587 χ^2/NDF : 21.0/27

Left In: 397.398+/-485.048 χ^2/NDF :21.8/22

Left: -63.533+/-341.714 χ^2/NDF : 57.7/47

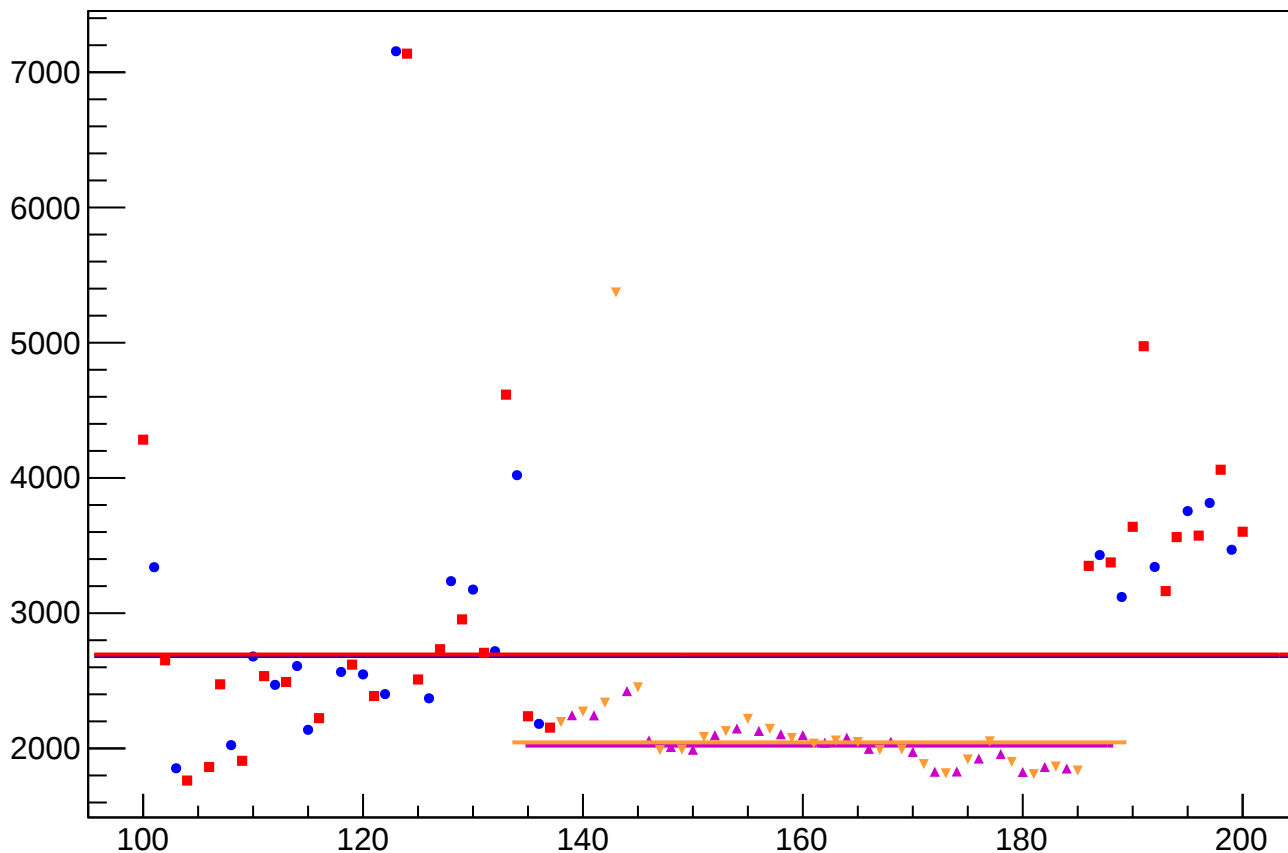
Right: 586.552+/-577.184 χ^2/NDF : 47.1/50

In: 350.816+/-421.383 χ^2/NDF :47.6/45

Out: -127.932+/-410.516 χ^2/NDF :57.5/52

All: 105.189+/-294.046 χ^2/NDF : 105.7/98

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2683.191 $\pm$ 0.602

χ^2/NDF : 1059126.9/22

Left: 2032.850 $\pm$ 0.242

χ^2/NDF : 964655.5/47

Left Out: 2044.722 $\pm$ 0.340

χ^2/NDF : 788703.5/24

Right: 2689.223 $\pm$ 0.408

χ^2/NDF : 2711335.1/50

Right Out: 2694.365 $\pm$ 0.555

χ^2/NDF : 1652022.0/27

In: 2183.274 $\pm$ 0.298

χ^2/NDF : 2147488.4/45

Out: 2222.120 $\pm$ 0.290

χ^2/NDF : 3434952.1/52

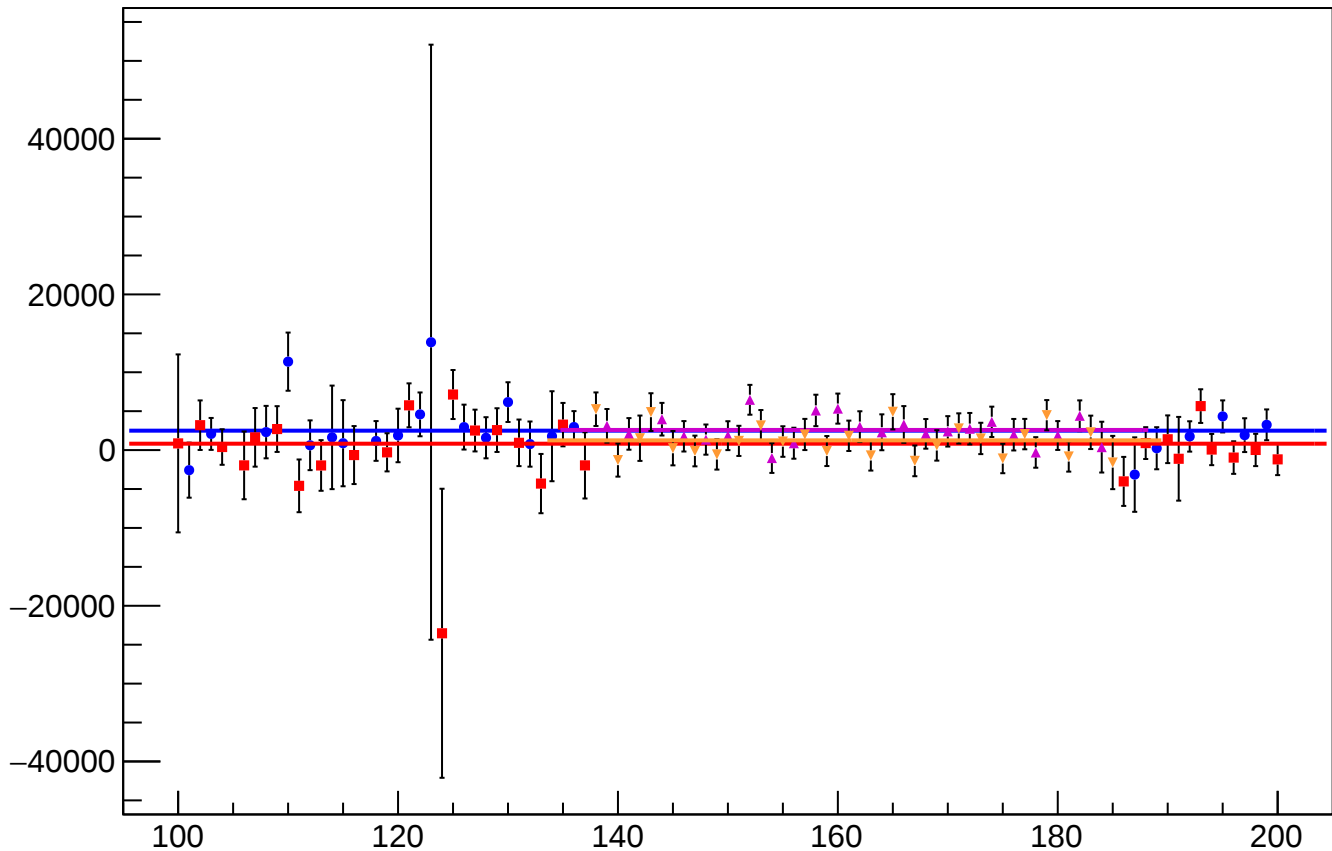
Left In: 2020.802 $\pm$ 0.343

χ^2/NDF : 173502.0/22

All: 2203.204 $\pm$ 0.208

χ^2/NDF : 5591161.0/98

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2495.557+/-582.377 χ^2/NDF : 15.0/22

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 821.407+/-537.062 χ^2/NDF : 27.2/27

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

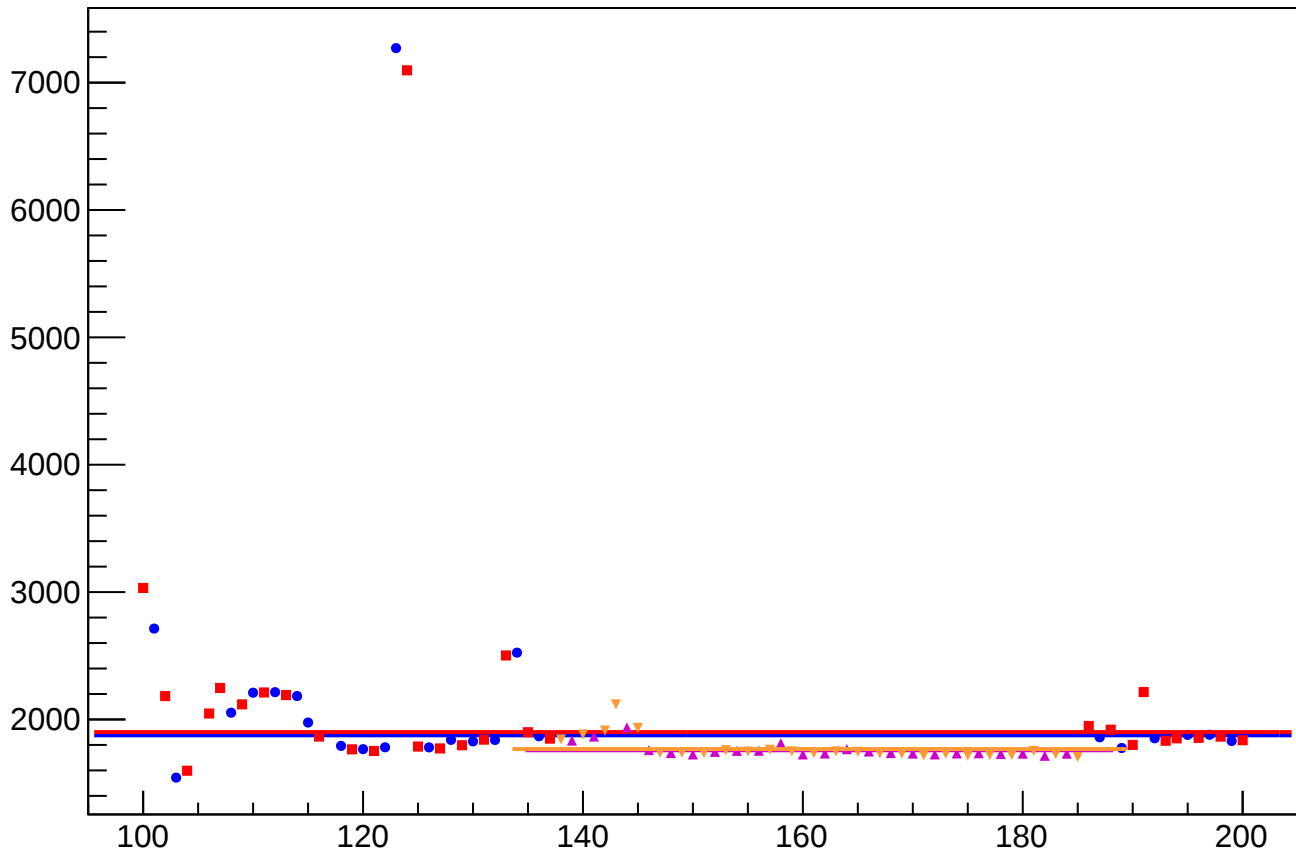
Right: 1590.823+/-394.809 χ^2/NDF : 46.7/50

In: 2555.524+/-341.458 χ^2/NDF : 32.5/45

Out: 1090.929+/-327.134 χ^2/NDF : 50.6/52

All: 1791.864+/-236.220 χ^2/NDF : 92.7/98

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1875.558+/-0.412 χ^2/NDF : 292811.2/22

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1900.923+/-0.379 χ^2/NDF : 379551.6/27

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

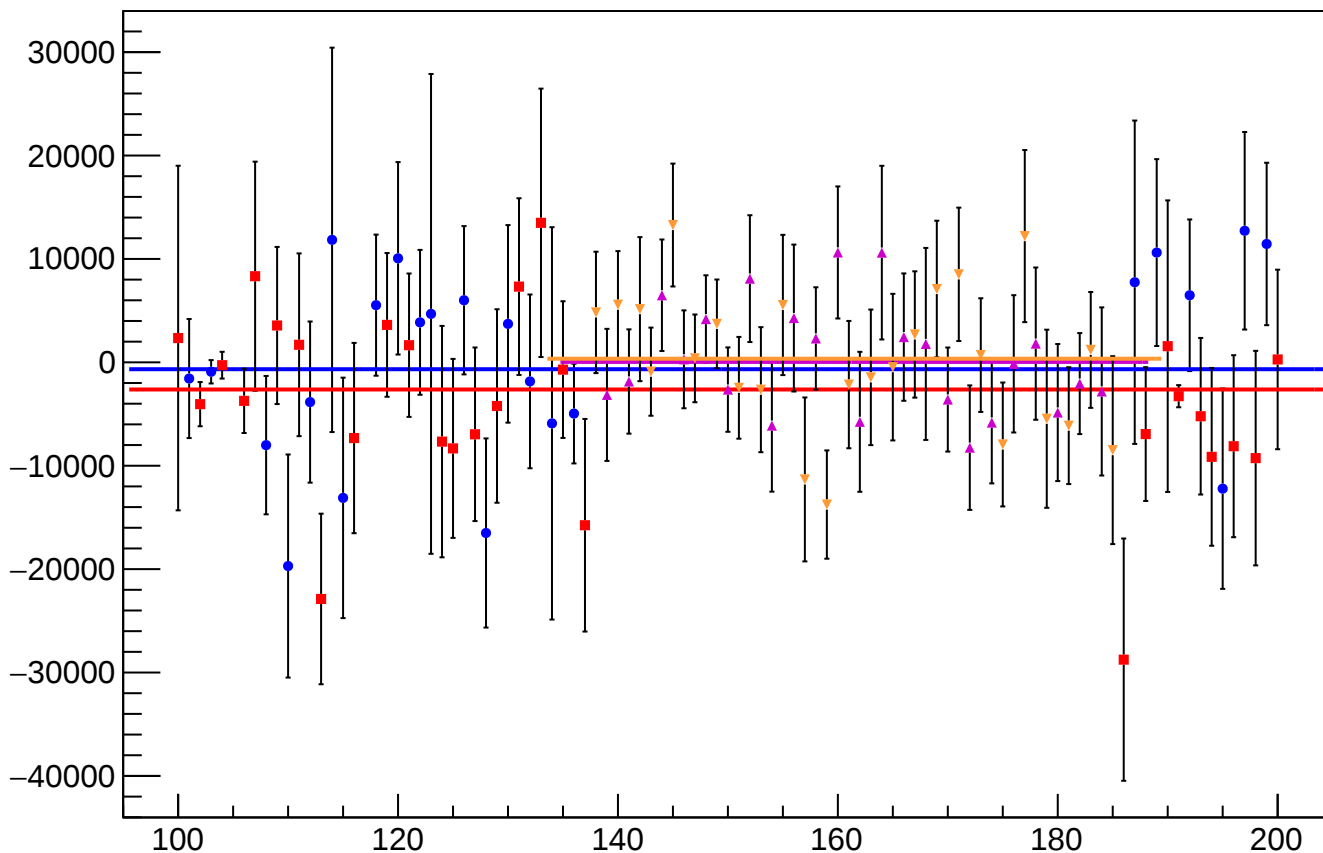
Right: 1889.276+/-0.279 χ^2/NDF : 674414.5/50

In: 1798.463+/-0.241 χ^2/NDF : 376027.3/45

Out: 1817.065+/-0.231 χ^2/NDF : 534925.8/52

All: 1808.165+/-0.167 χ^2/NDF : 914049.1/98

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -664.979+/-952.204 χ^2/NDF : 22.3/22

Left Out: 351.227+/-1170.051 χ^2/NDF : 27.8/24

Right Out: -2625.918+/-689.605 χ^2/NDF : 26.3/27

Left In: 40.618+/-1207.491 χ^2/NDF : 16.0/22

Left: 200.813+/-840.276 χ^2/NDF : 43.9/47

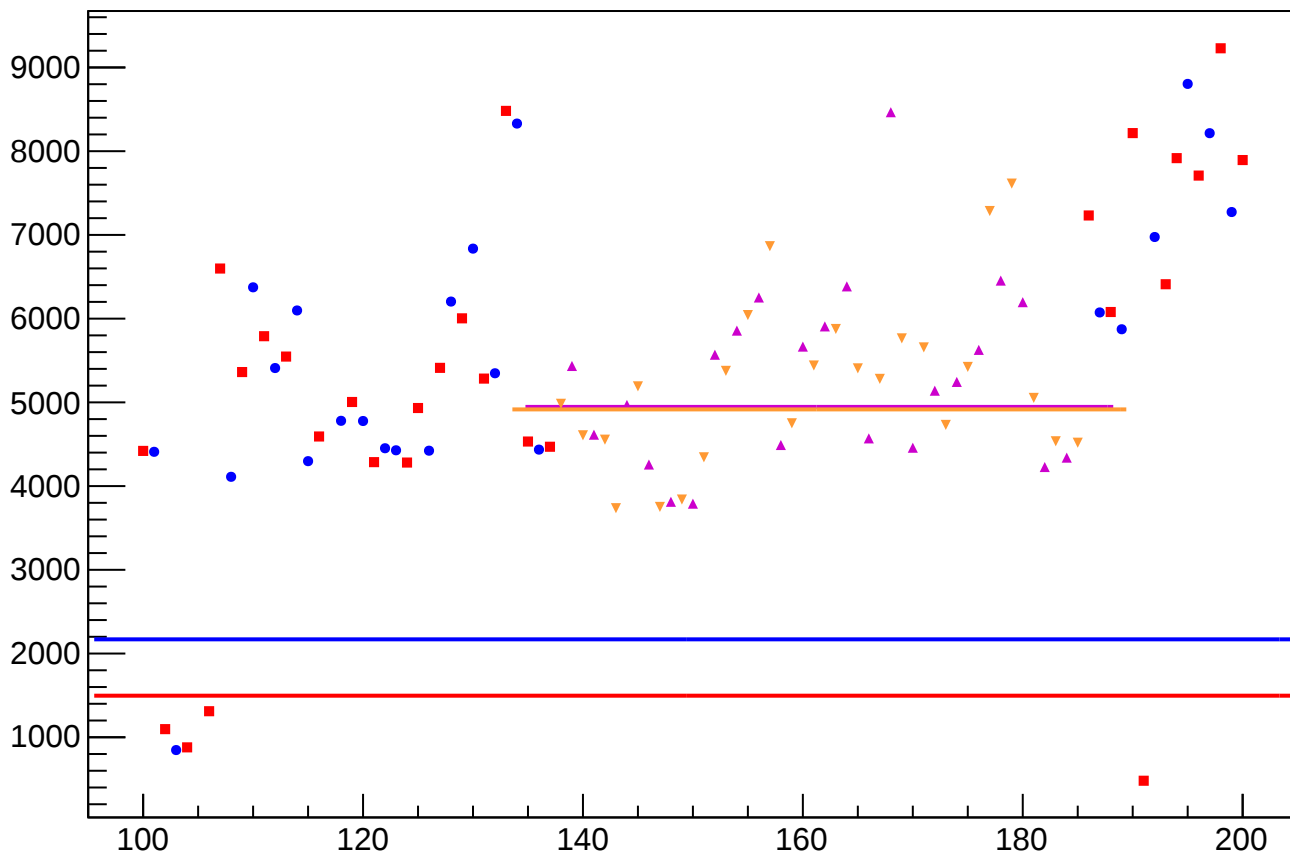
Right: -1951.267+/-558.519 χ^2/NDF : 51.4/50

In: -394.437+/-747.693 χ^2/NDF : 38.5/45

Out: -1858.372+/-594.097 χ^2/NDF : 59.0/52

All: -1291.815+/-465.141 χ^2/NDF : 99.8/98

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2169.583+/-0.673

χ^2/NDF : 10607346.7/22

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 1728.114+/-0.395

χ^2/NDF : 26600806.4/50

Right Out: 1496.566+/-0.488

χ^2/NDF : 15338076.1/27

In: 3234.057+/-0.529

χ^2/NDF : 18314333.3/45

Out: 2378.105+/-0.420

χ^2/NDF : 29201297.0/52

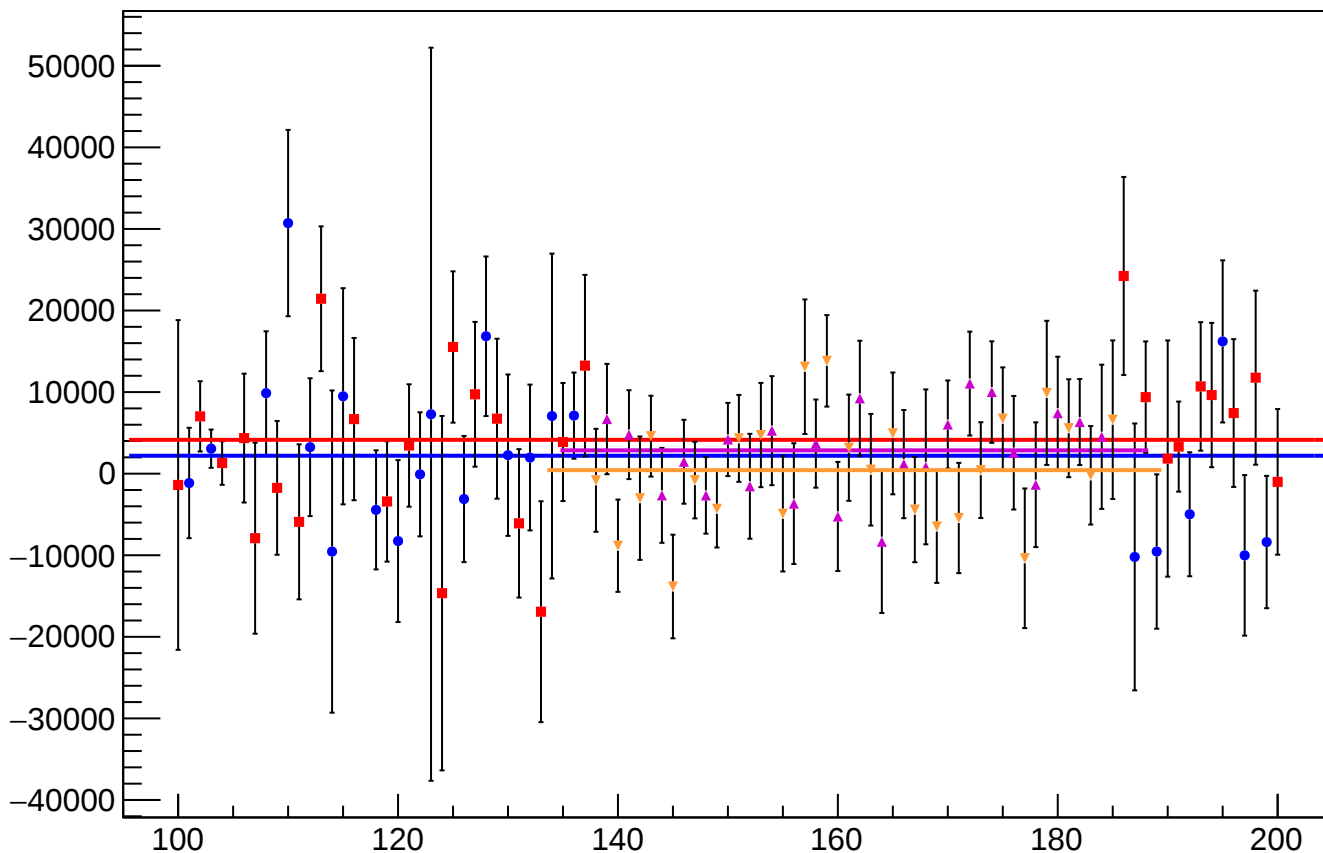
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2709.367+/-0.329

χ^2/NDF : 49122332.5/95

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2197.571+/-1484.119 χ^2/NDF : 22.2/22

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 4149.423+/-1393.498 χ^2/NDF : 21.8/27

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

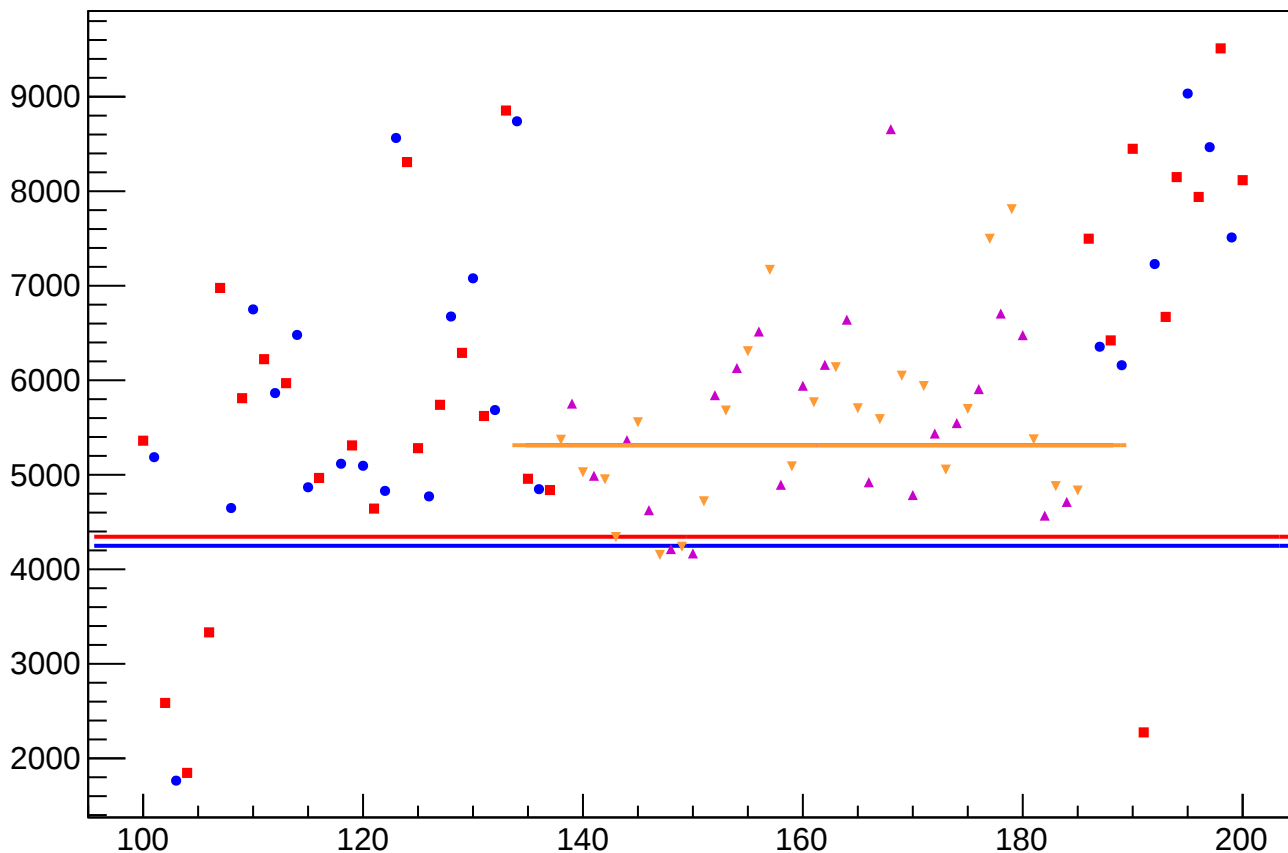
Right: 3234.903+/-1015.879 χ^2/NDF : 44.9/50

In: 2574.470+/-974.616 χ^2/NDF : 35.2/45

Out: 2101.008+/-933.891 χ^2/NDF : 52.8/52

All: 2327.641+/-674.298 χ^2/NDF : 88.2/98

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4248.774+/-1.049 χ^2/NDF : 4613473.9/22

Left Out: 5313.008+/-0.890 χ^2/NDF : 894369.8/24

Right Out: 4344.644+/-0.980 χ^2/NDF : 5434695.5/27

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

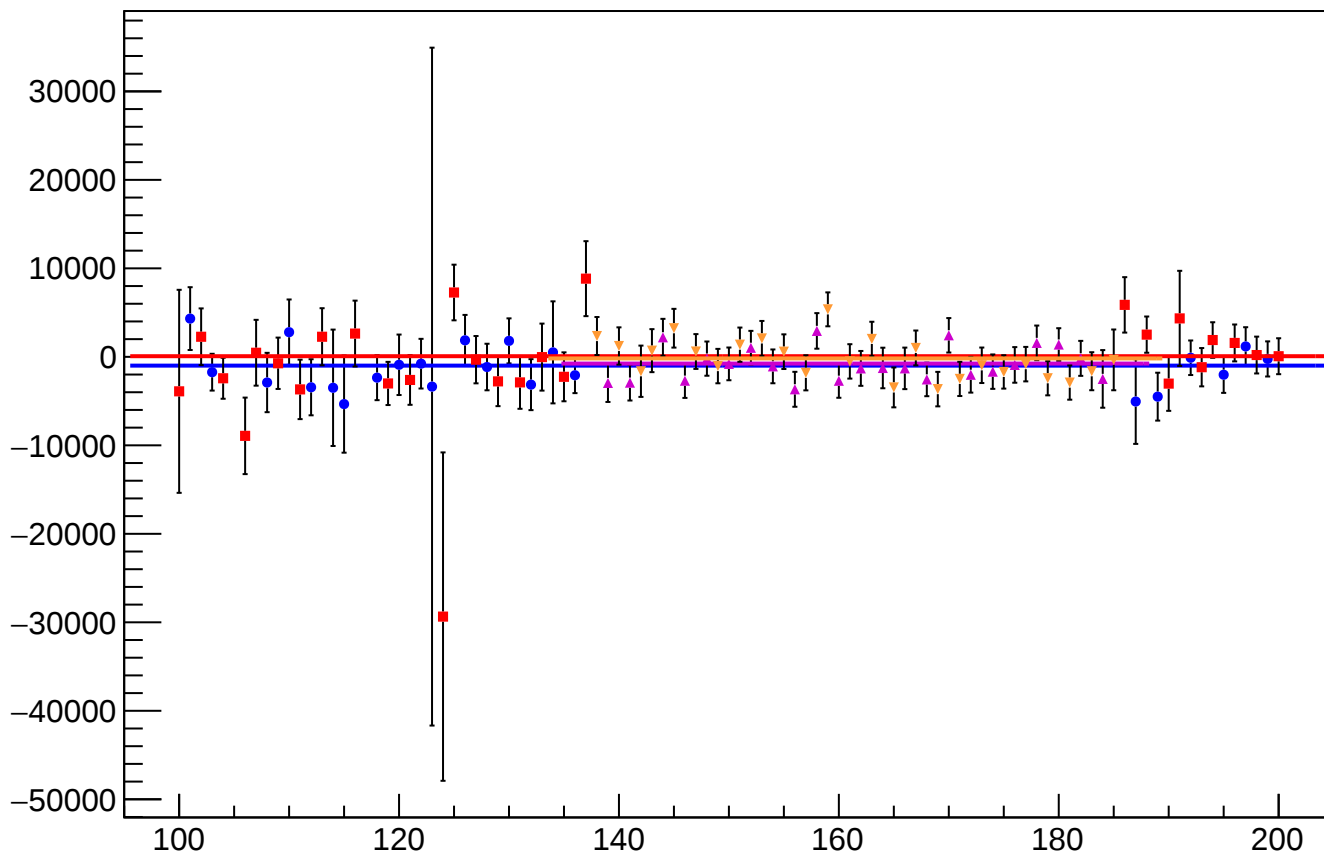
Right: 4299.965+/-0.716 χ^2/NDF : 10052625.7/50

In: 4853.973+/-0.689 χ^2/NDF : 6155621.8/45

Out: 4875.670+/-0.659 χ^2/NDF : 6864043.8/52

All: 4865.309+/-0.476 χ^2/NDF : 13020183.5/99

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -992.530+/-581.342 χ^2/NDF : 12.5/22

Left Out: -179.794+/-410.976 χ^2/NDF : 29.3/24

Right Out: 72.765+/-536.566 χ^2/NDF : 33.8/27

Left In: -759.753+/-419.905 χ^2/NDF : 20.3/22

Left: -463.542+/-293.710 χ^2/NDF : 50.5/47

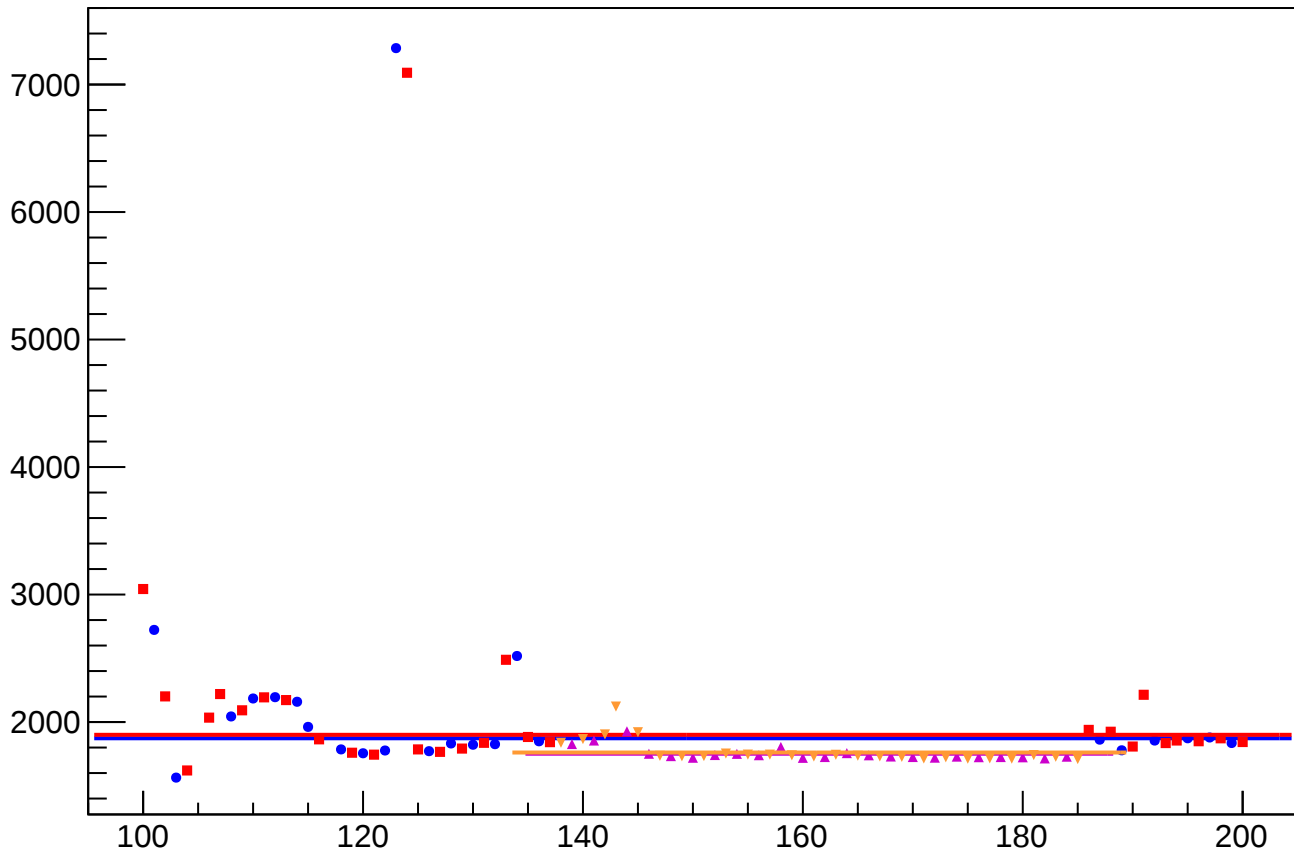
Right: -417.283+/-394.290 χ^2/NDF : 48.2/50

In: -839.561+/-340.395 χ^2/NDF : 32.9/45

Out: -86.412+/-326.268 χ^2/NDF : 63.2/52

All: -447.034+/-235.542 χ^2/NDF : 98.7/98

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1872.666 $\pm$ 0.411 χ^2 /NDF: 283230.0/22

Left Out: 1761.091 $\pm$ 0.291 χ^2 /NDF: 77468.5/24

Right Out: 1899.898 $\pm$ 0.379 χ^2 /NDF: 366870.5/27

Left In: 1751.418 $\pm$ 0.297 χ^2 /NDF: 28578.7/22

Left: 1756.358 $\pm$ 0.208 χ^2 /NDF: 106589.3/47

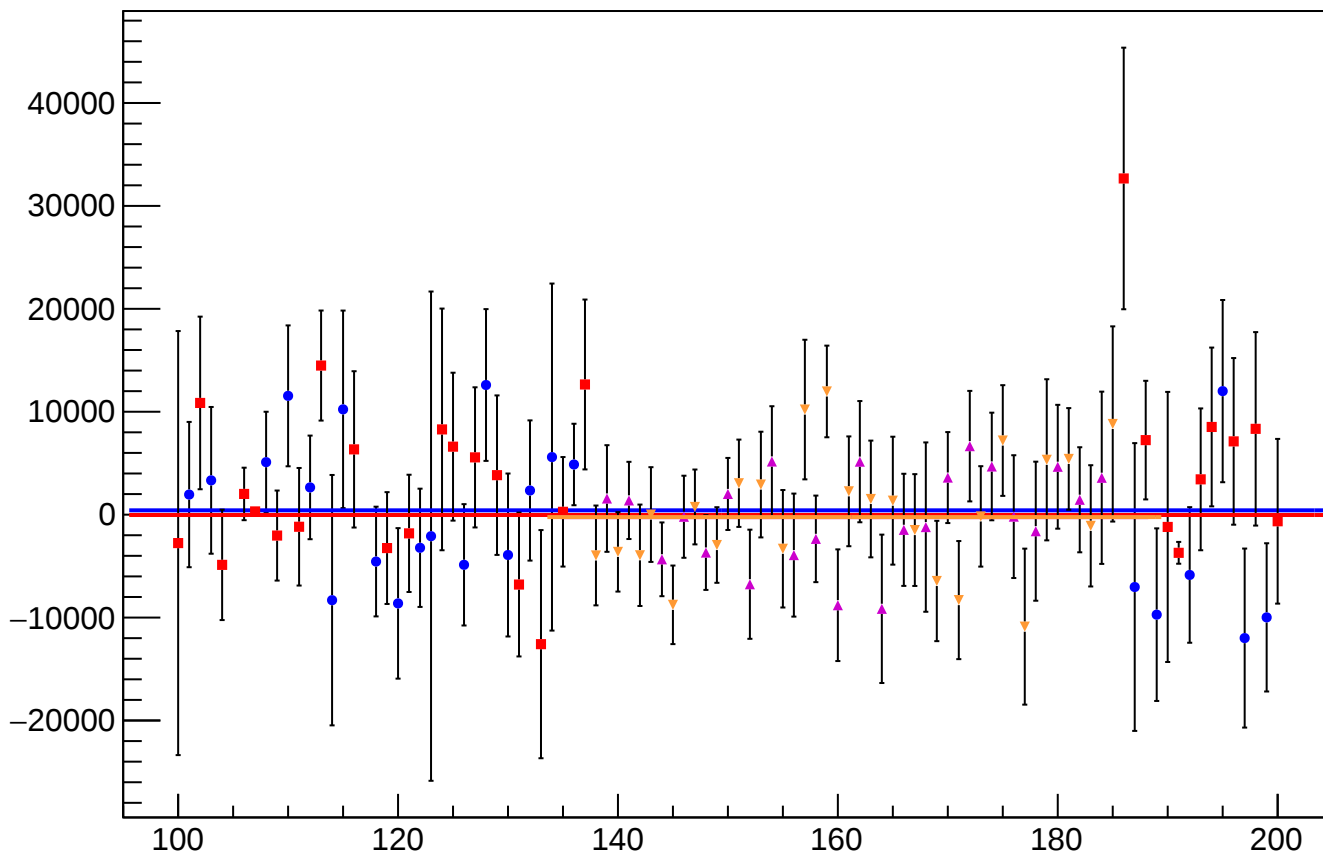
Right: 1887.382 $\pm$ 0.279 χ^2 /NDF: 652472.0/50

In: 1792.988 $\pm$ 0.241 χ^2 /NDF: 368981.0/45

Out: 1812.468 $\pm$ 0.231 χ^2 /NDF: 528784.4/52

All: 1803.143 $\pm$ 0.167 χ^2 /NDF: 901180.1/98

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 420.434 $\pm$ 1435.132 χ^2 /NDF: 22.1/22

Left Out: -235.806 $\pm$ 1005.144 χ^2 /NDF:28.9/24

Right Out: -33.919 $\pm$ 412.771 χ^2 /NDF: 42.6/27

Left In: -239.224 $\pm$ 1028.883 χ^2 /NDF:15.3/22

Left: -237.475 $\pm$ 718.990 χ^2 /NDF: 44.2/47

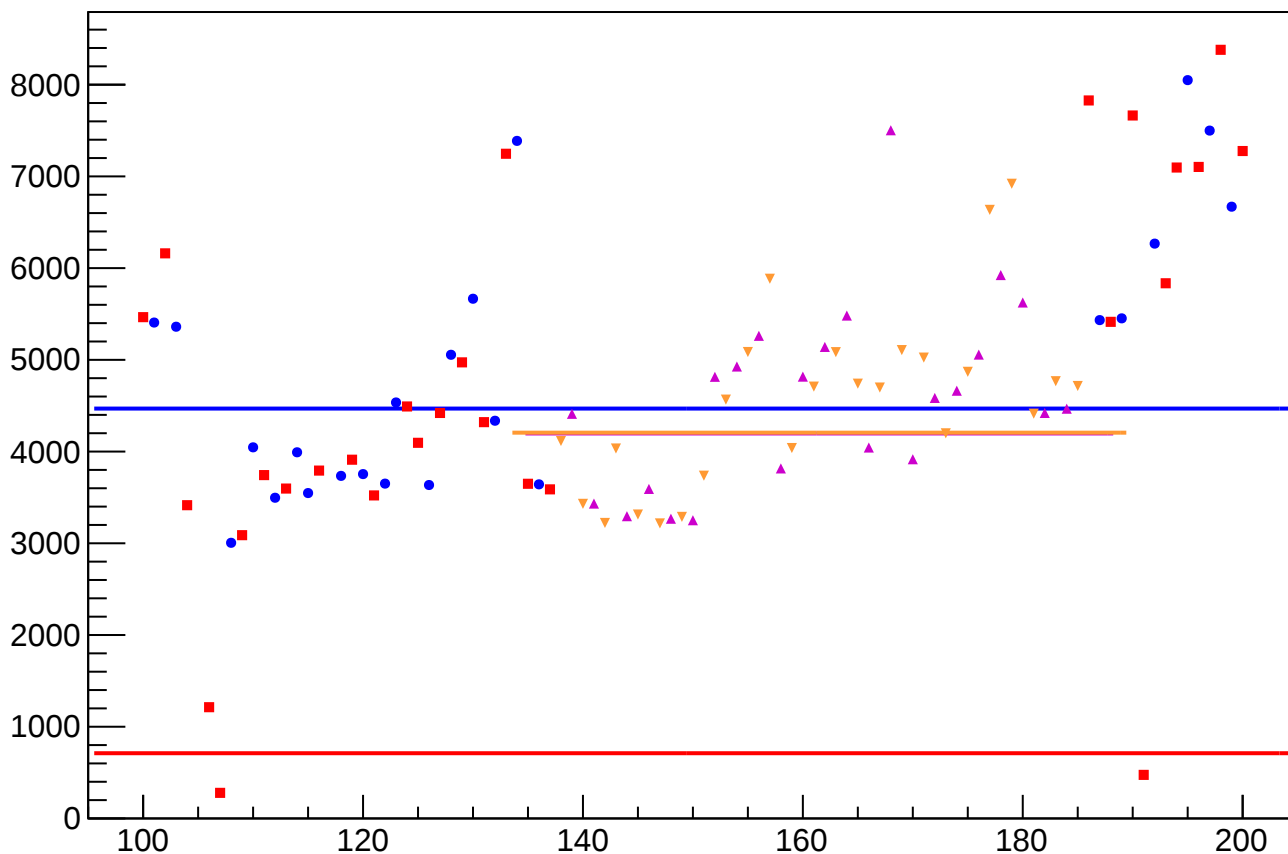
Right: 0.795 $\pm$ 396.689 χ^2 /NDF: 64.8/50

In: -15.276 $\pm$ 836.191 χ^2 /NDF:37.6/45

Out: -63.052 $\pm$ 381.829 χ^2 /NDF:71.5/52

All: -54.809 $\pm$ 347.331 χ^2 /NDF: 109.1/98

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4468.738+/-1.015

χ^2/NDF : 1635790.2/22

Left: 4201.775+/-0.508

χ^2/NDF : 2913357.2/47

Left Out: 4206.076+/-0.711

χ^2/NDF : 1442269.3/24

Right: 998.335+/-0.281

χ^2/NDF : 33643453.8/50

Right Out: 711.248+/-0.292

χ^2/NDF : 19345027.4/27

In: 4289.429+/-0.591

χ^2/NDF : 3154071.6/45

Out: 1215.569+/-0.270

χ^2/NDF : 41476534.2/52

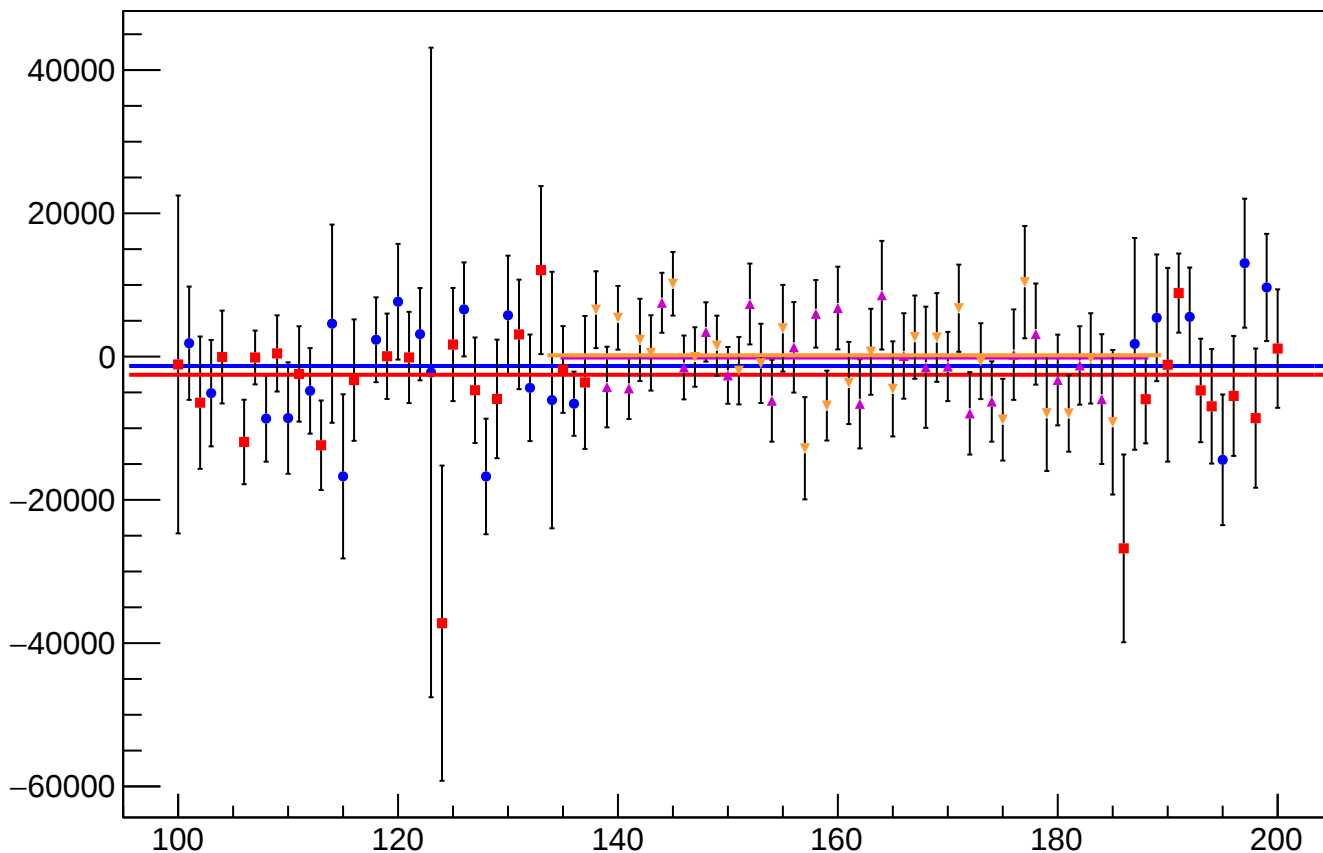
Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

All: 1745.916+/-0.246

χ^2/NDF : 66993960.3/9

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1309.969+/-1596.546 χ^2/NDF : 23.0/22

Left Out: 189.721+/-1106.851 χ^2/NDF : 25.0/24

Right Out: -2537.643+/-1352.853 χ^2/NDF : 20.7/27

Left In: -137.477+/-1129.656 χ^2/NDF : 18.6/22

Left: 29.458+/-790.601 χ^2/NDF : 43.6/47

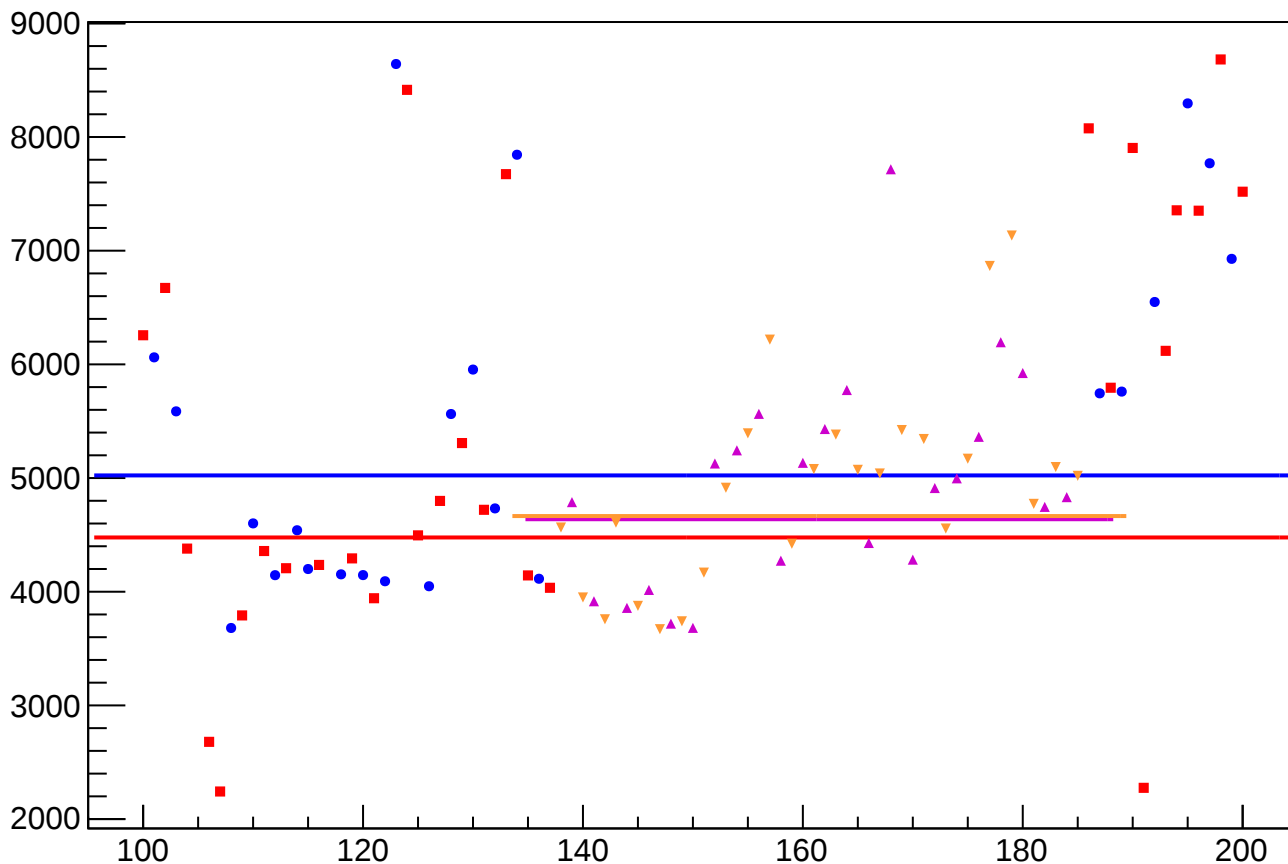
Right: -2024.554+/-1032.134 χ^2/NDF : 44.0/50

In: -528.643+/-922.162 χ^2/NDF : 42.0/45

Out: -903.892+/-856.664 χ^2/NDF : 48.1/52

All: -730.066+/-627.632 χ^2/NDF : 90.1/98

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5023.108 $\pm$ 1.129

χ^2/NDF : 1232056.7/22

Left: 4651.983 $\pm$ 0.559 χ^2/NDF : 2083072.1/47

Right: 4704.161 $\pm$ 0.728 χ^2/NDF : 4657587.5/50

Left Out: 4665.620 $\pm$ 0.783

χ^2/NDF : 1017235.0/24

In: 4766.331 $\pm$ 0.652 χ^2/NDF : 2374908.6/45

Right Out: 4477.309 $\pm$ 0.952 χ^2/NDF : 3288941.0/27

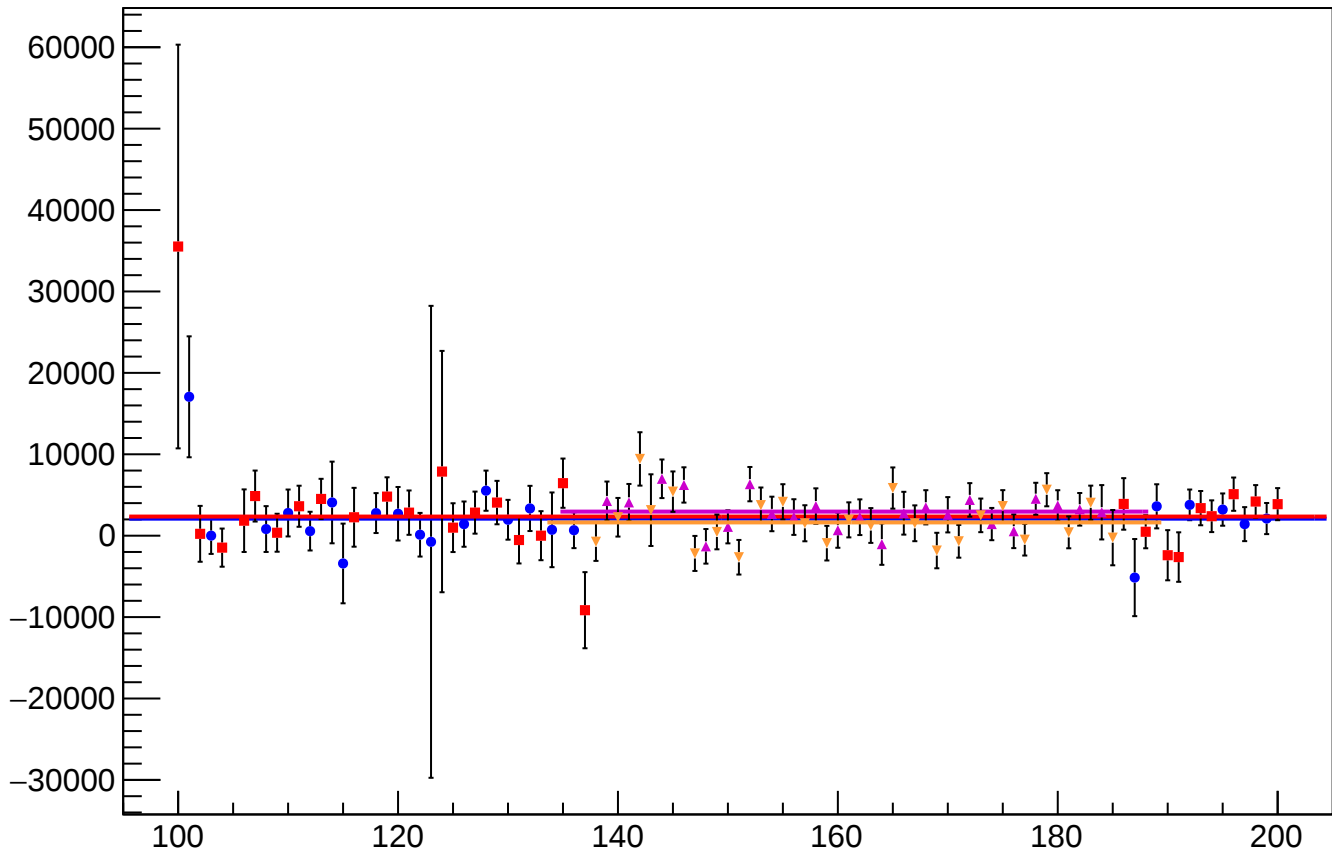
Out: 4589.682 $\pm$ 0.605 χ^2/NDF : 4329520.3/52

Left In: 4637.777 $\pm$ 0.799

χ^2/NDF : 1065217.2/22

All: 4671.344 $\pm$ 0.443 χ^2/NDF : 6743892.1/98

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2093.387 $\pm$ 560.272 χ^2 /NDF: 14.3/22

Left Out: 1630.035 $\pm$ 447.063 χ^2 /NDF:35.4/24

Right Out: 2348.794 $\pm$ 505.556 χ^2 /NDF: 28.3/27

Left In: 2958.620 $\pm$ 453.688 χ^2 /NDF:20.4/22

Left: 2284.557 $\pm$ 318.438 χ^2 /NDF: 60.2/47

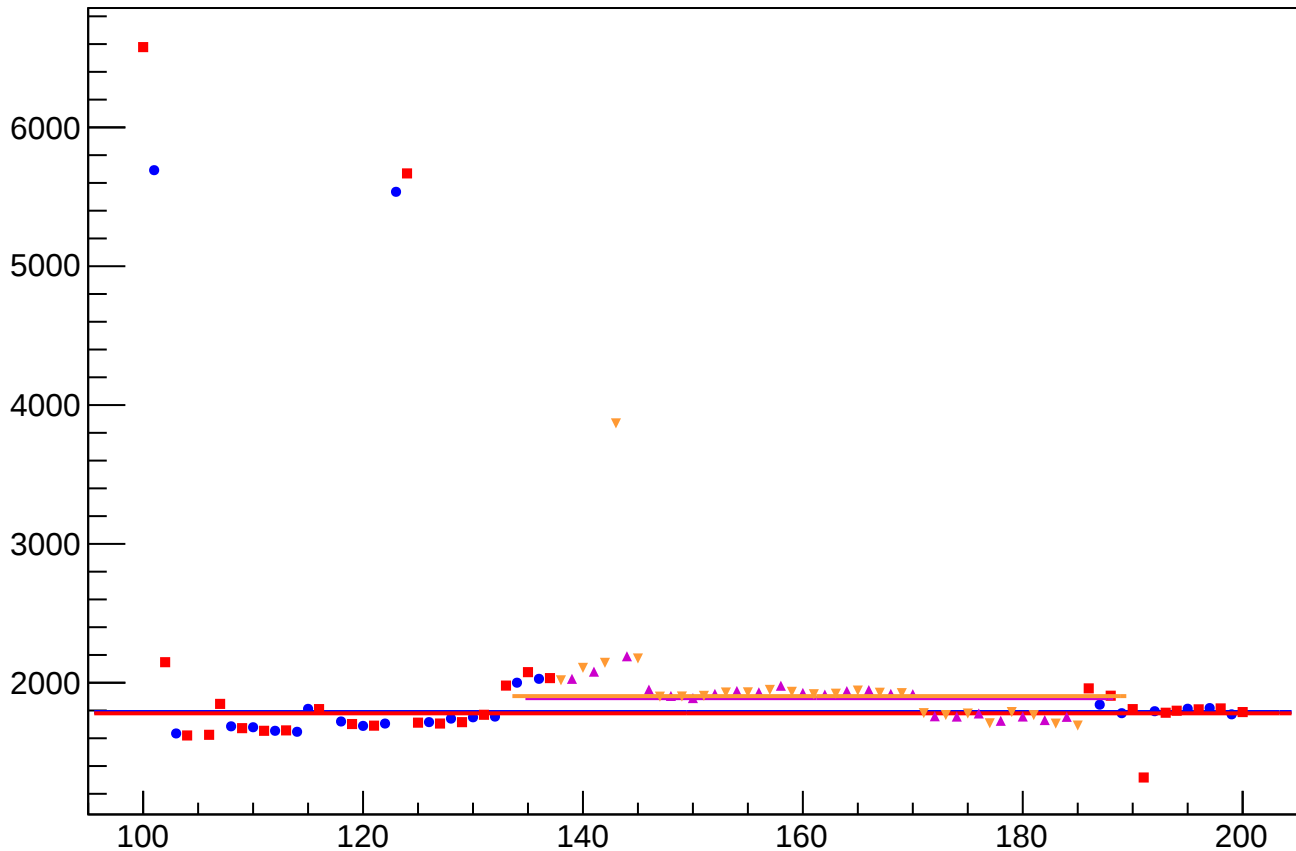
Right: 2234.168 $\pm$ 375.340 χ^2 /NDF: 42.7/50

In: 2615.960 $\pm$ 352.585 χ^2 /NDF:36.1/45

Out: 1945.447 $\pm$ 334.901 χ^2 /NDF:64.8/52

All: 2263.468 $\pm$ 242.822 χ^2 /NDF: 102.9/98

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1789.041 ± 0.396 $\chi^2/\text{NDF}: 645851.5/22$

Left Out: 1903.618 ± 0.316 $\chi^2/\text{NDF}: 541575.7/24$

Right Out: 1779.625 ± 0.356 $\chi^2/\text{NDF}: 368597.6/27$

Left In: 1888.927 ± 0.321 $\chi^2/\text{NDF}: 126417.2/22$

Left: 1896.381 ± 0.225 $\chi^2/\text{NDF}: 669056.9/47$

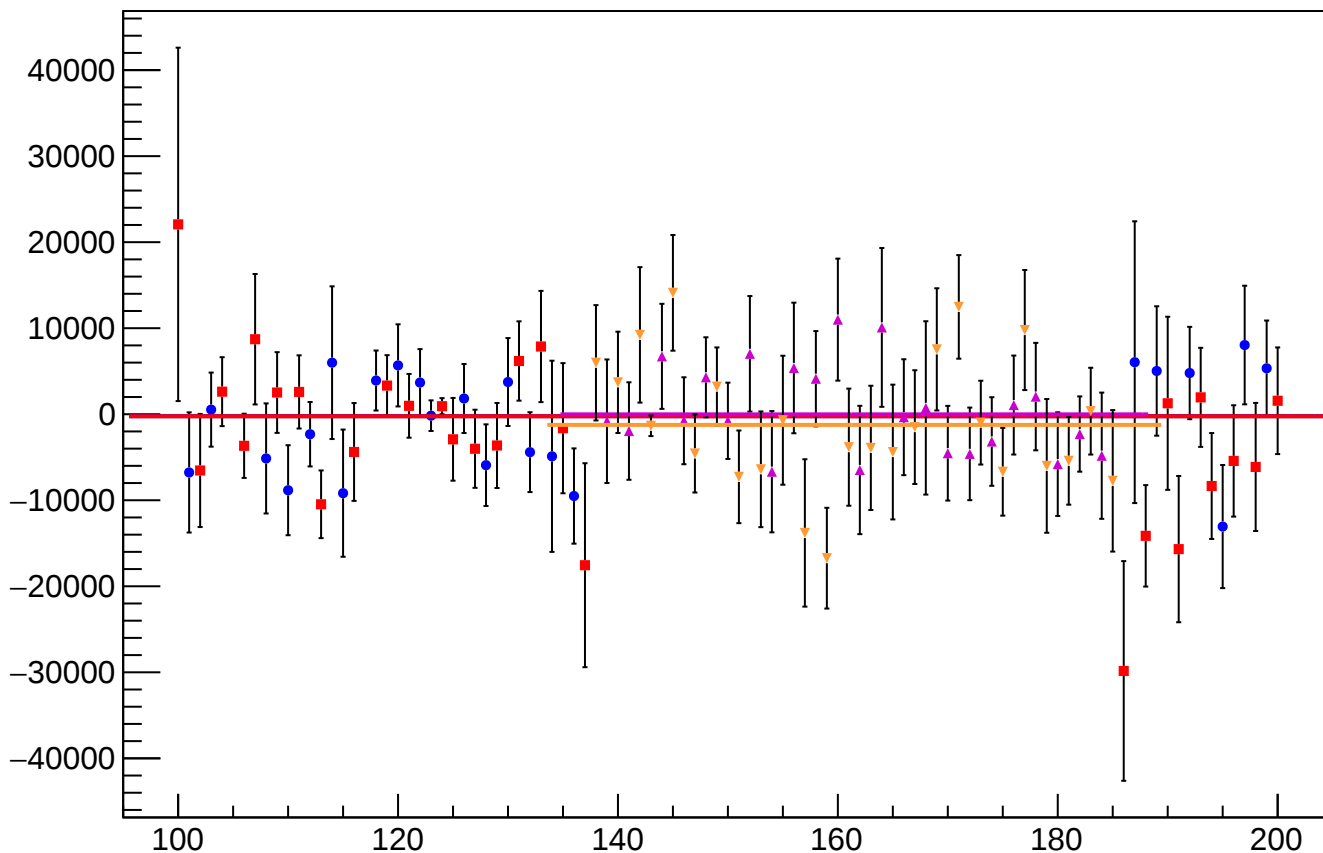
Right: 1783.834 ± 0.265 $\chi^2/\text{NDF}: 1014761.5/50$

In: 1849.369 ± 0.249 $\chi^2/\text{NDF}: 810661.6/45$

Out: 1848.977 ± 0.236 $\chi^2/\text{NDF}: 977970.6/52$

All: 1849.162 ± 0.172 $\chi^2/\text{NDF}: 1788633.6/98$

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -225.439+/-950.219 χ^2/NDF : 23.7/22

Left Out: -1239.833+/-865.201 χ^2/NDF :33.9/24

Right Out: -237.728+/-693.202 χ^2/NDF : 40.3/27

Left In: -15.863+/-1243.317 χ^2/NDF :13.2/22

Left: -840.501+/-710.172 χ^2/NDF : 47.8/47

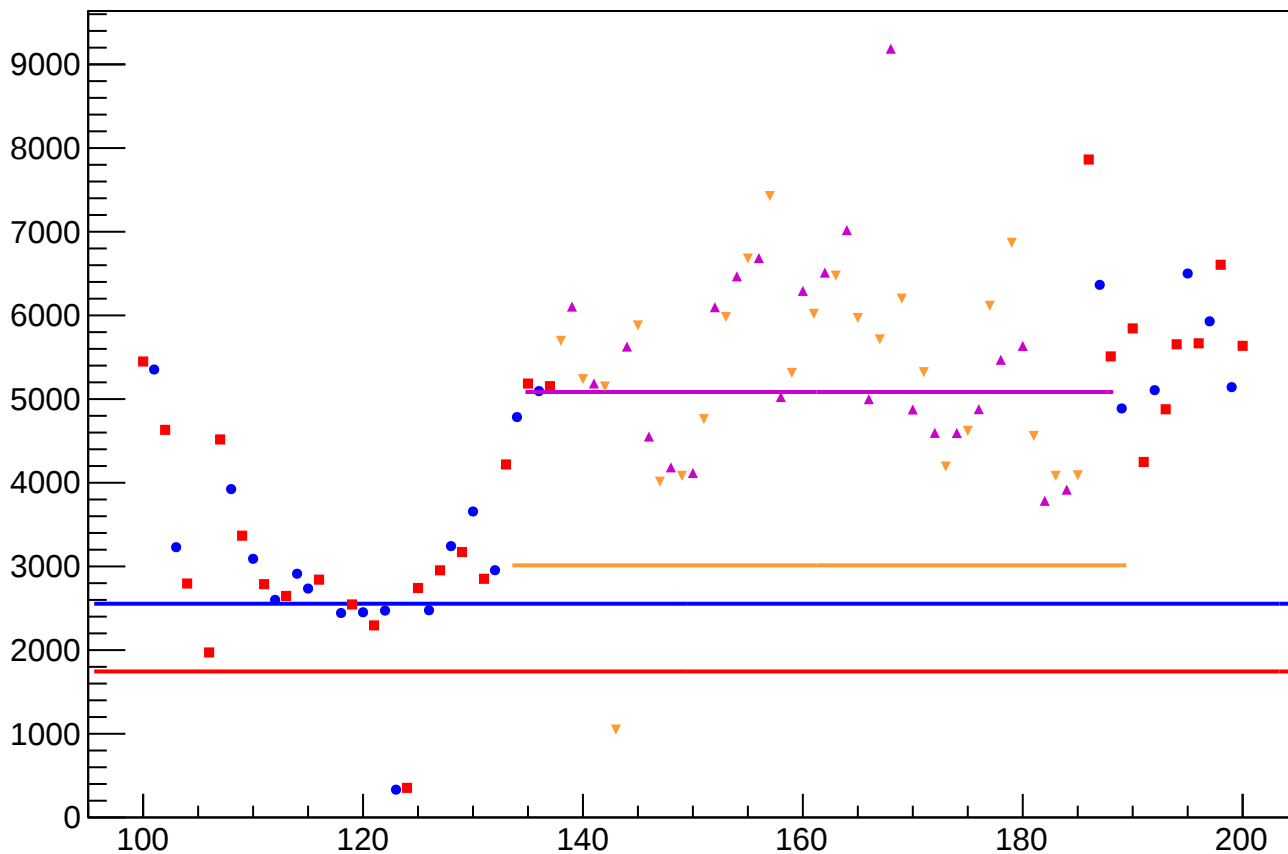
Right: -233.459+/-560.019 χ^2/NDF : 64.0/50

In: -148.163+/-754.976 χ^2/NDF :37.0/45

Out: -629.510+/-540.982 χ^2/NDF :75.0/52

All: -466.209+/-439.743 χ^2/NDF : 112.2/98

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2554.361+/-0.672

χ^2/NDF : 6542916.7/22

Left: 3689.075+/-0.502

χ^2/NDF : 17314385.8/47

Left Out: 3013.268+/-0.612

χ^2/NDF : 12270753.9/24

Right: 2026.076+/-0.396

χ^2/NDF : 20402742.1/50

Right Out: 1744.926+/-0.490

χ^2/NDF : 12912646.2/27

In: 3487.339+/-0.534

χ^2/NDF : 13075560.2/45

Out: 2240.796+/-0.383

χ^2/NDF : 27801072.6/52

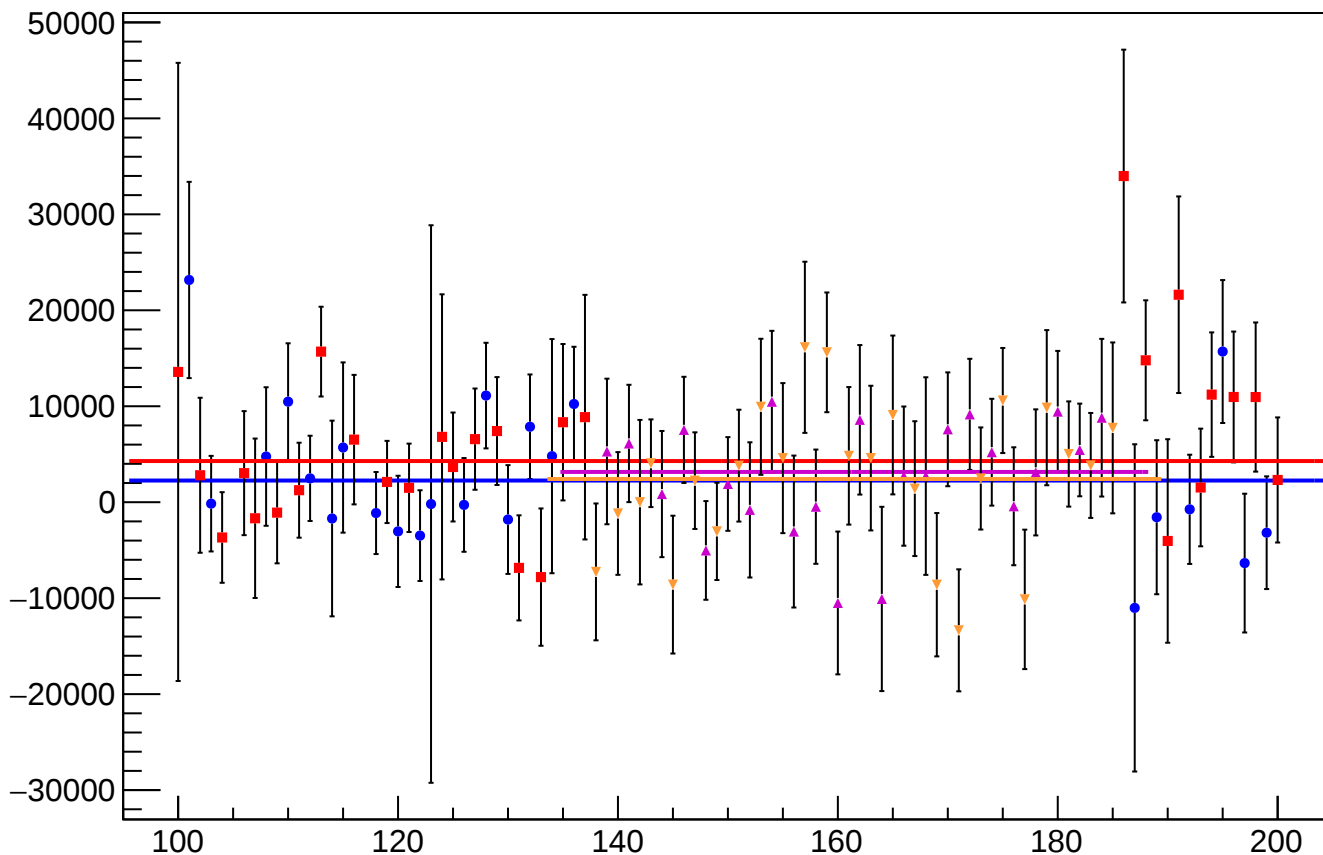
Left In: 5084.645+/-0.879

χ^2/NDF : 1303587.7/22

All: 2663.696+/-0.311

χ^2/NDF : 44479185.0/9

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2257.604 $\pm$ 1301.671 χ^2/NDF : 22.5/22

Left Out: 2417.210 $\pm$ 1286.482 χ^2/NDF : 29.9/24

Right Out: 4289.587 $\pm$ 1208.580 χ^2/NDF : 34.0/27

Left In: 3153.449 $\pm$ 1337.378 χ^2/NDF : 15.5/22

Left: 2771.054 $\pm$ 927.151 χ^2/NDF : 45.5/47

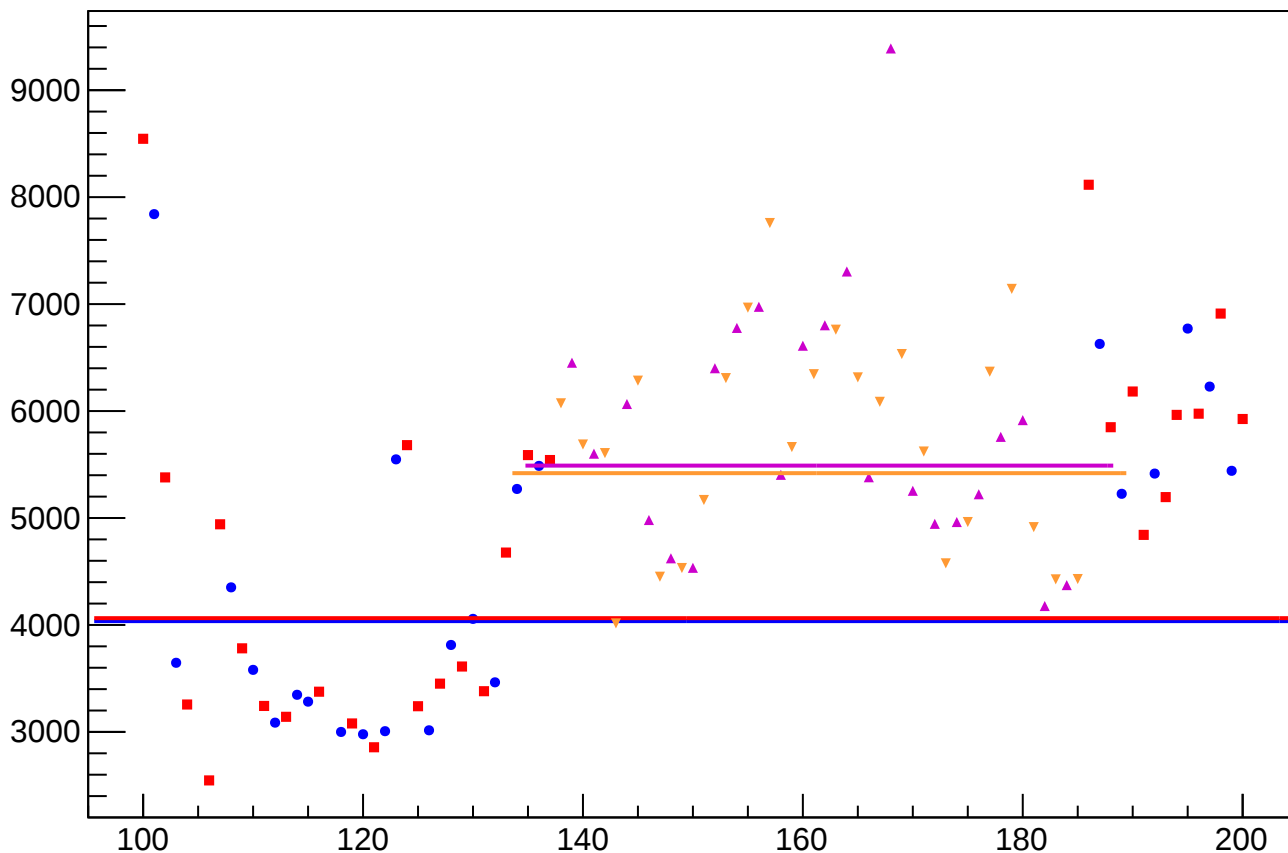
Right: 3348.847 $\pm$ 885.678 χ^2/NDF : 57.8/50

In: 2693.407 $\pm$ 932.788 χ^2/NDF : 38.2/45

Out: 3411.802 $\pm$ 880.848 χ^2/NDF : 65.0/52

All: 3073.162 $\pm$ 640.429 χ^2/NDF : 103.6/98

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4035.984+/-0.920 χ^2/NDF : 1731246.9/22

Left Out: 5419.305+/-0.910 χ^2/NDF : 1109972.1/24

Right Out: 4063.565+/-0.845 χ^2/NDF : 2275084.8/27

Left In: 5489.885+/-0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

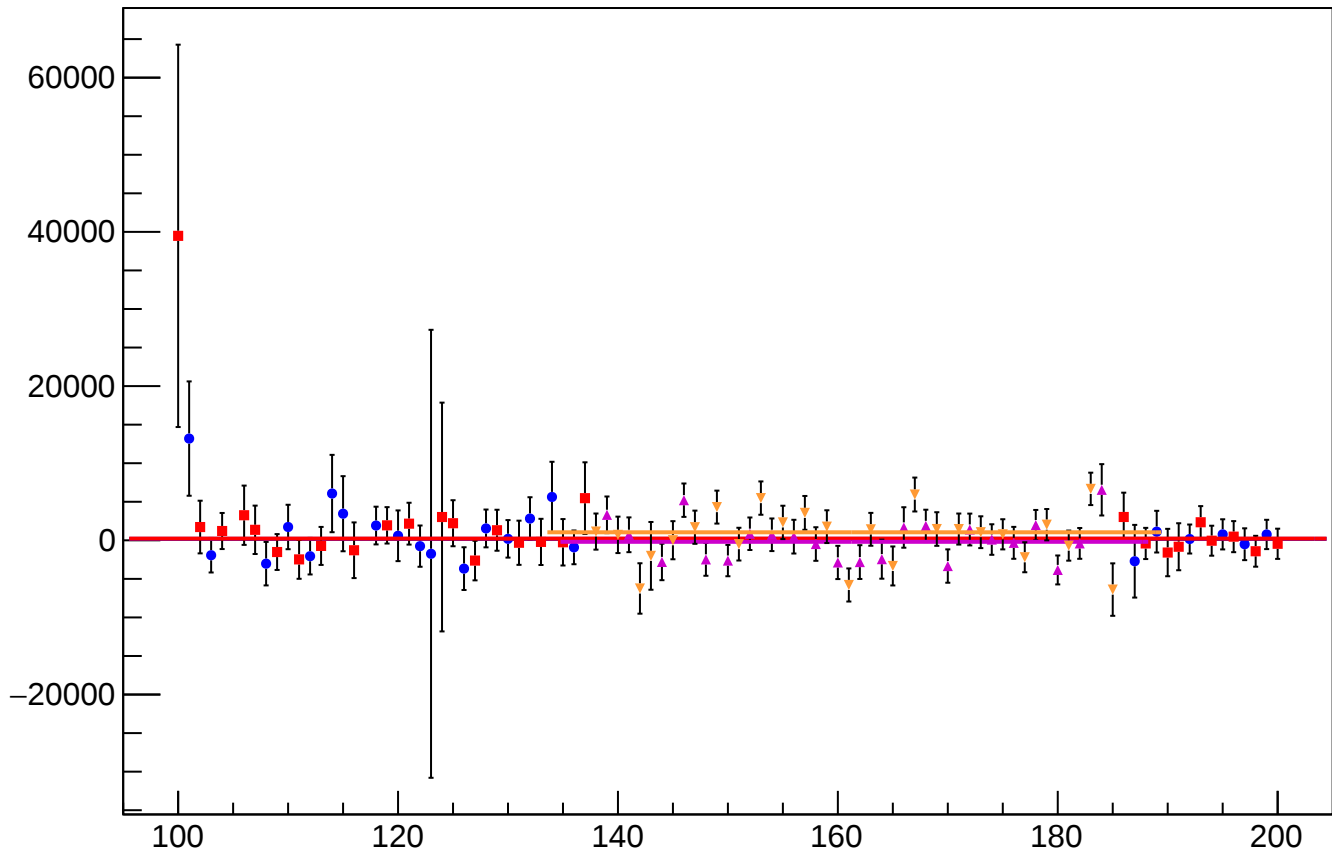
Right: 4050.943+/-0.623 χ^2/NDF : 4006818.7/50

In: 4743.263+/-0.660 χ^2/NDF : 4009429.8/45

Out: 4691.871+/-0.619 χ^2/NDF : 4576828.0/52

All: 4715.949+/-0.451 χ^2/NDF : 8589484.4/98

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 187.588 $\pm$ 557.609 χ^2 /NDF: 14.5/22

Left Out: 1041.262 $\pm$ 446.249 χ^2 /NDF:48.6/24

Right Out: 220.681 $\pm$ 503.341 χ^2 /NDF: 13.1/27

Left In: -191.966 $\pm$ 453.055 χ^2 /NDF:30.0/22

Left: 433.980 $\pm$ 317.925 χ^2 /NDF: 82.3/47

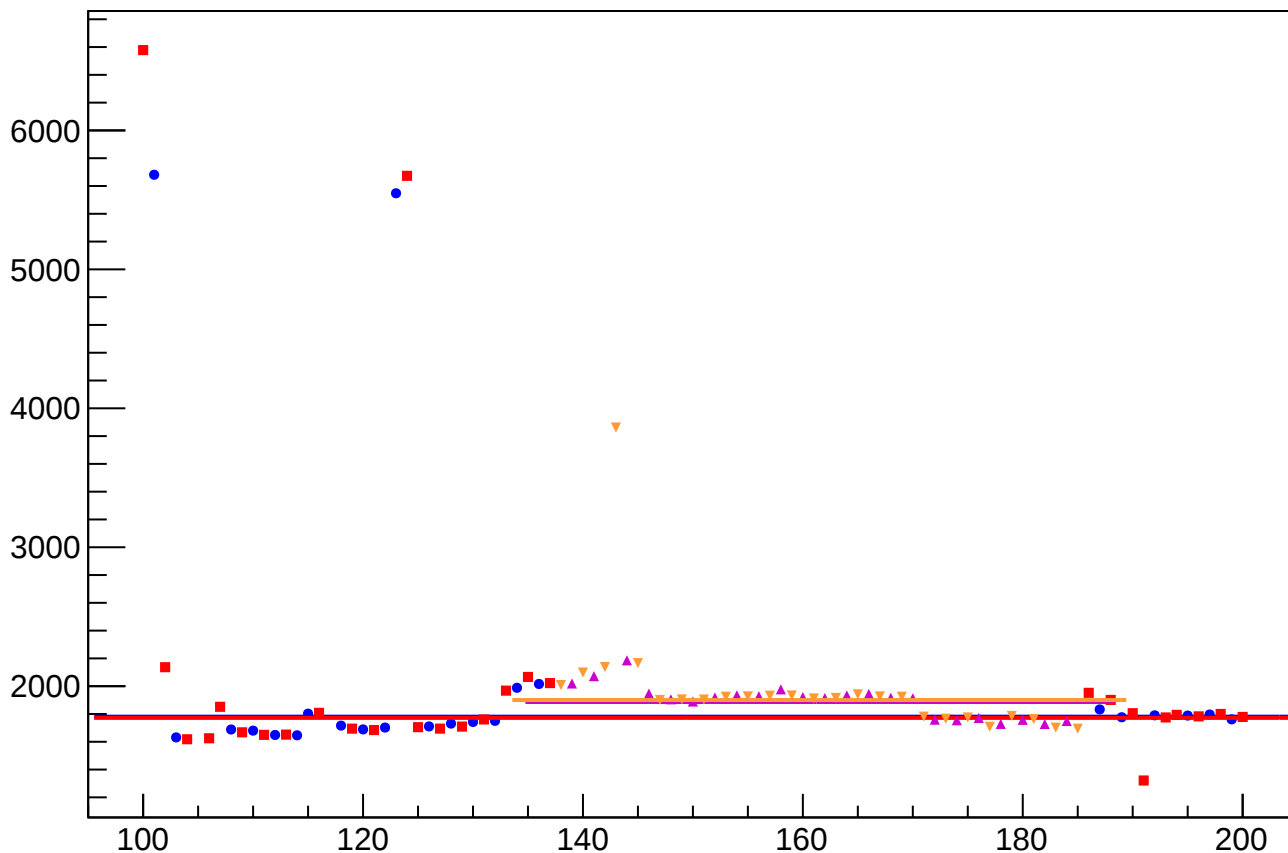
Right: 205.823 $\pm$ 373.633 χ^2 /NDF: 27.7/50

In: -41.039 $\pm$ 351.623 χ^2 /NDF:44.8/45

Out: 680.129 $\pm$ 333.914 χ^2 /NDF:63.2/52

All: 338.162 $\pm$ 242.131 χ^2 /NDF: 110.2/98

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1780.656+/-0.394 χ^2/NDF : 643656.4/22

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1772.067+/-0.355 χ^2/NDF : 365254.1/27

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

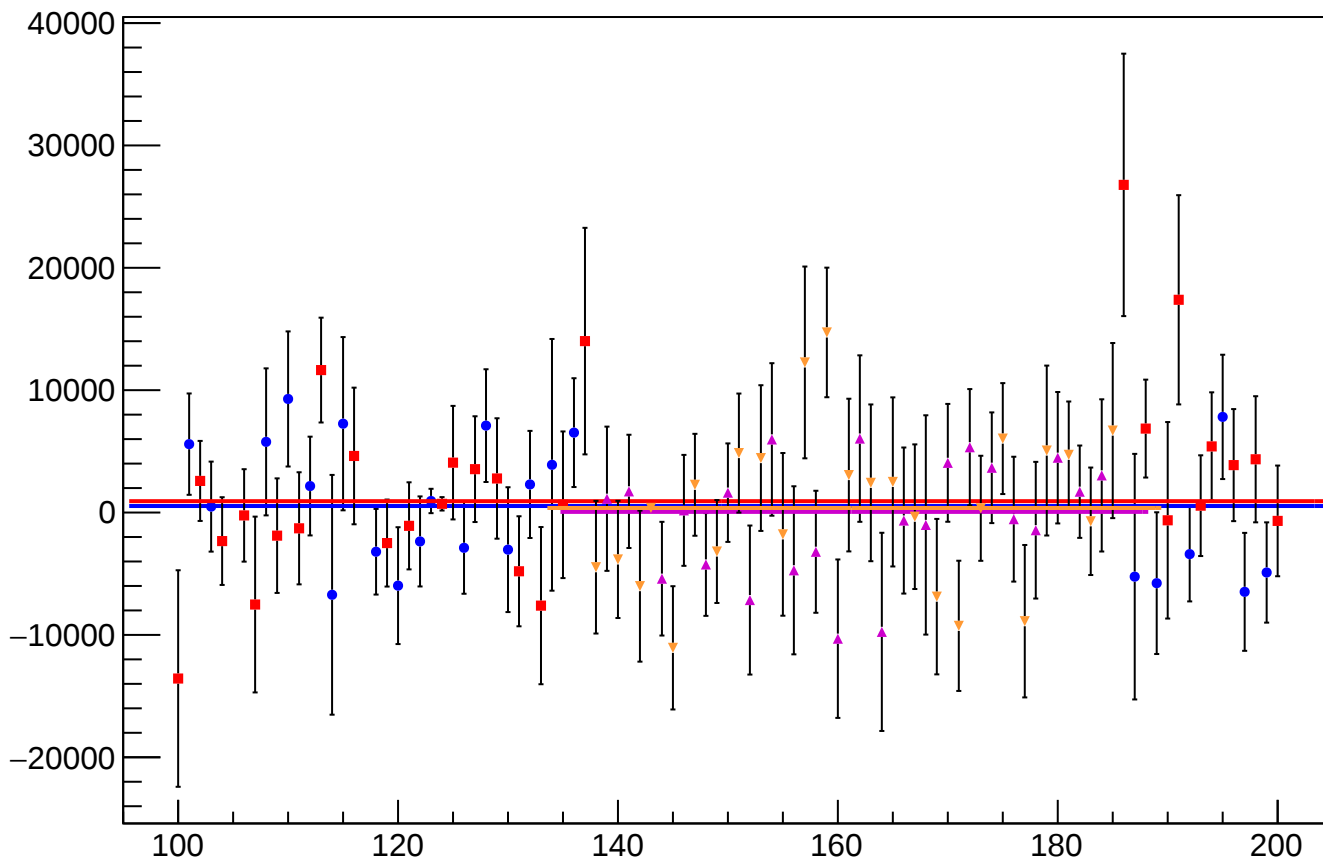
Right: 1775.907+/-0.264 χ^2/NDF : 1009172.7/50

In: 1844.338+/-0.249 χ^2/NDF : 810483.7/45

Out: 1843.627+/-0.236 χ^2/NDF : 976124.9/52

All: 1843.963+/-0.171 χ^2/NDF : 1786612.8/98

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 532.527 $\pm$ 705.312 χ^2 /NDF: 24.1/22

Left Out: 373.277 $\pm$ 382.071 χ^2 /NDF:30.8/24

Right Out: 928.478 $\pm$ 469.364 χ^2 /NDF: 34.1/27

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

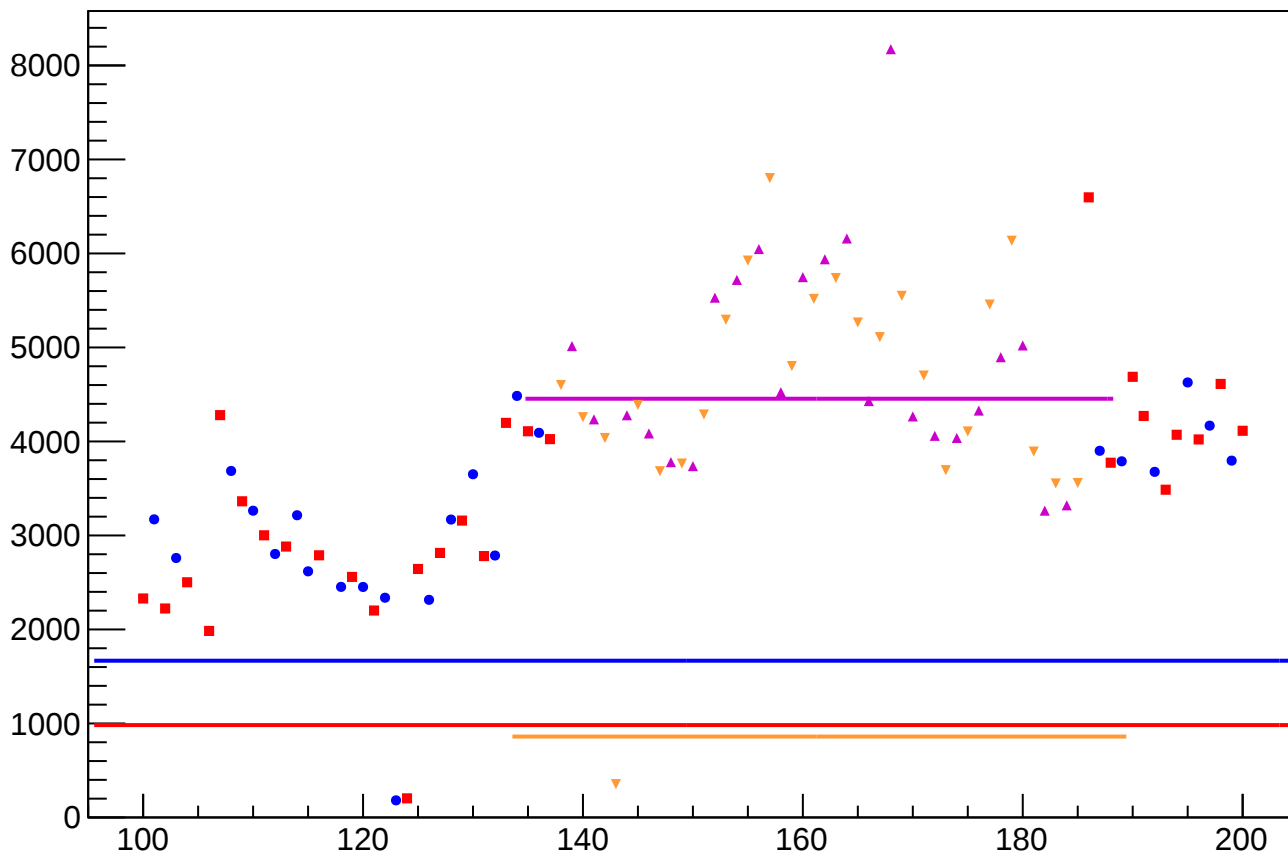
Right: 806.950 $\pm$ 390.750 χ^2 /NDF: 58.4/50

In: 391.011 $\pm$ 592.137 χ^2 /NDF:38.8/45

Out: 594.548 $\pm$ 296.310 χ^2 /NDF:65.7/52

All: 553.788 $\pm$ 264.985 χ^2 /NDF: 104.6/98

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1667.436+/-0.499

χ^2/NDF : 9868391.2/22

Left: 1253.867+/-0.255

χ^2/NDF : 47056303.3/47

Left Out: 860.545+/-0.270

χ^2/NDF : 26340106.5/24

Right: 1192.804+/-0.276

χ^2/NDF : 27988929.4/50

Right Out: 982.614+/-0.332

χ^2/NDF : 16813759.4/27

In: 2490.081+/-0.419

χ^2/NDF : 20435594.2/45

Out: 909.195+/-0.210

χ^2/NDF : 43235228.2/52

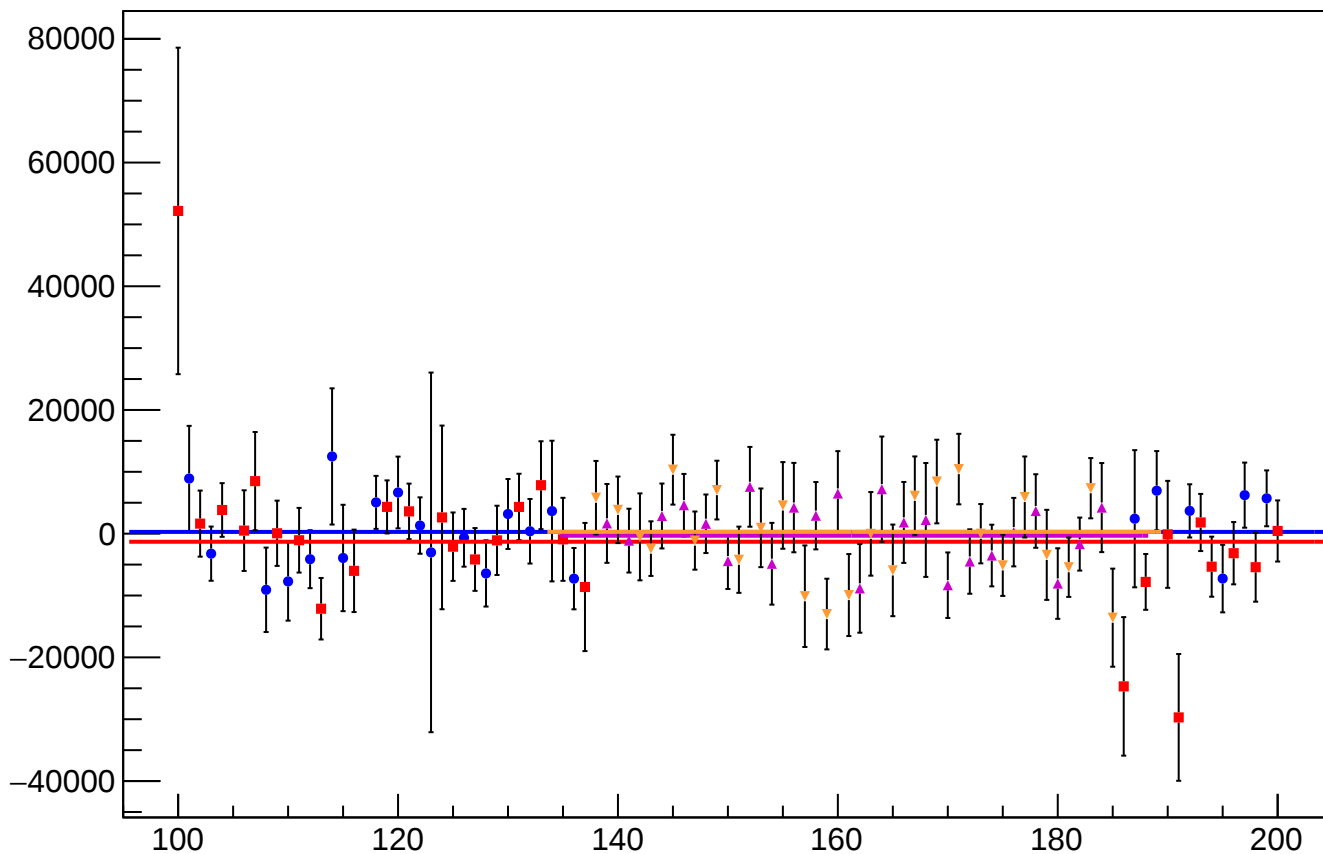
Left In: 4454.402+/-0.771

χ^2/NDF : 1349758.1/22

All: 1225.786+/-0.187

χ^2/NDF : 75071612.8/9

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 284.896 ± 1182.439 χ^2/NDF : 20.7/22

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -1306.317 ± 1088.270 χ^2/NDF : 35.4/27

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

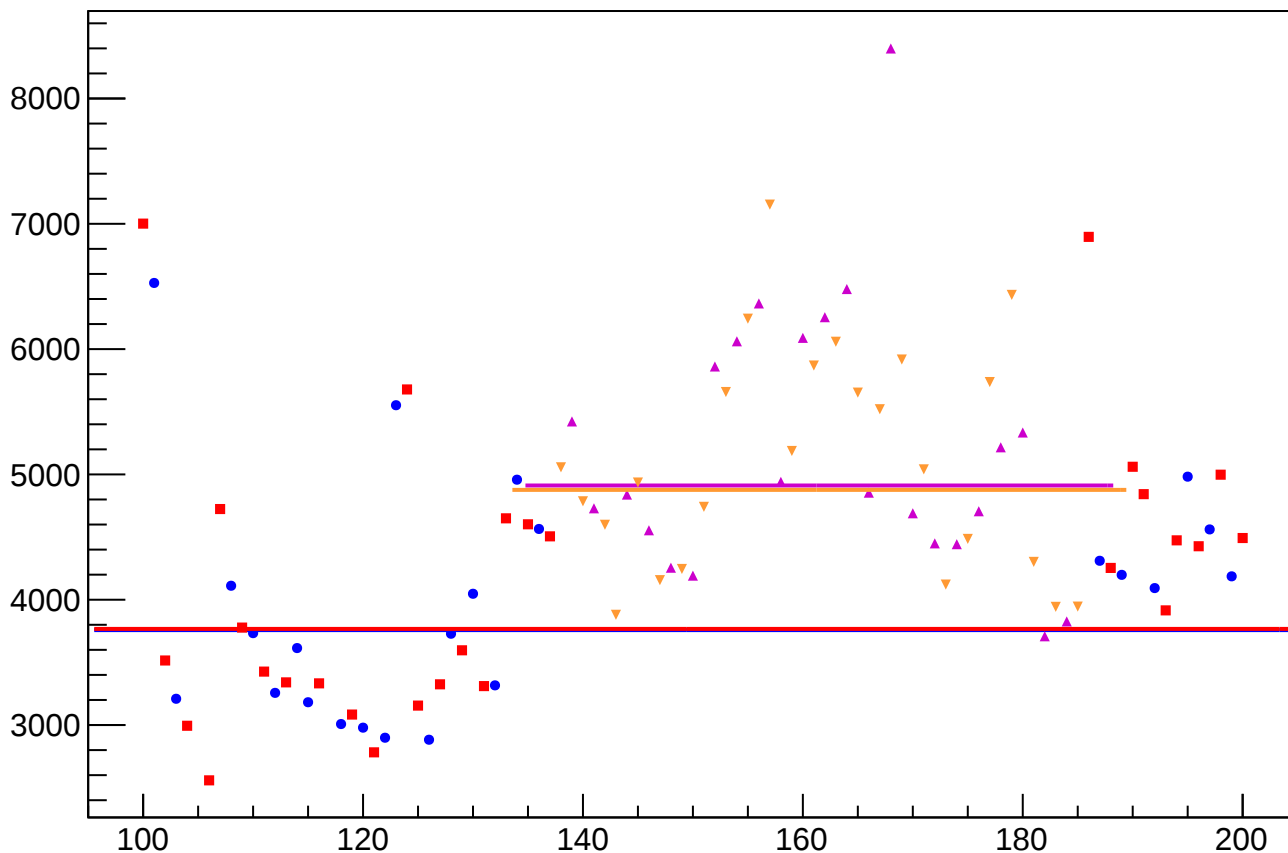
Right: -576.586 ± 800.748 χ^2/NDF : 57.0/50

In: -20.273 ± 840.868 χ^2/NDF : 35.5/45

Out: -556.591 ± 792.199 χ^2/NDF : 68.8/52

All: -304.402 ± 576.607 χ^2/NDF : 104.5/98

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3757.518 $\pm$ 0.836 χ^2 /NDF: 813095.0/22

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24

Right Out: 3767.102 $\pm$ 0.763 χ^2 /NDF: 1044749.5/27

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

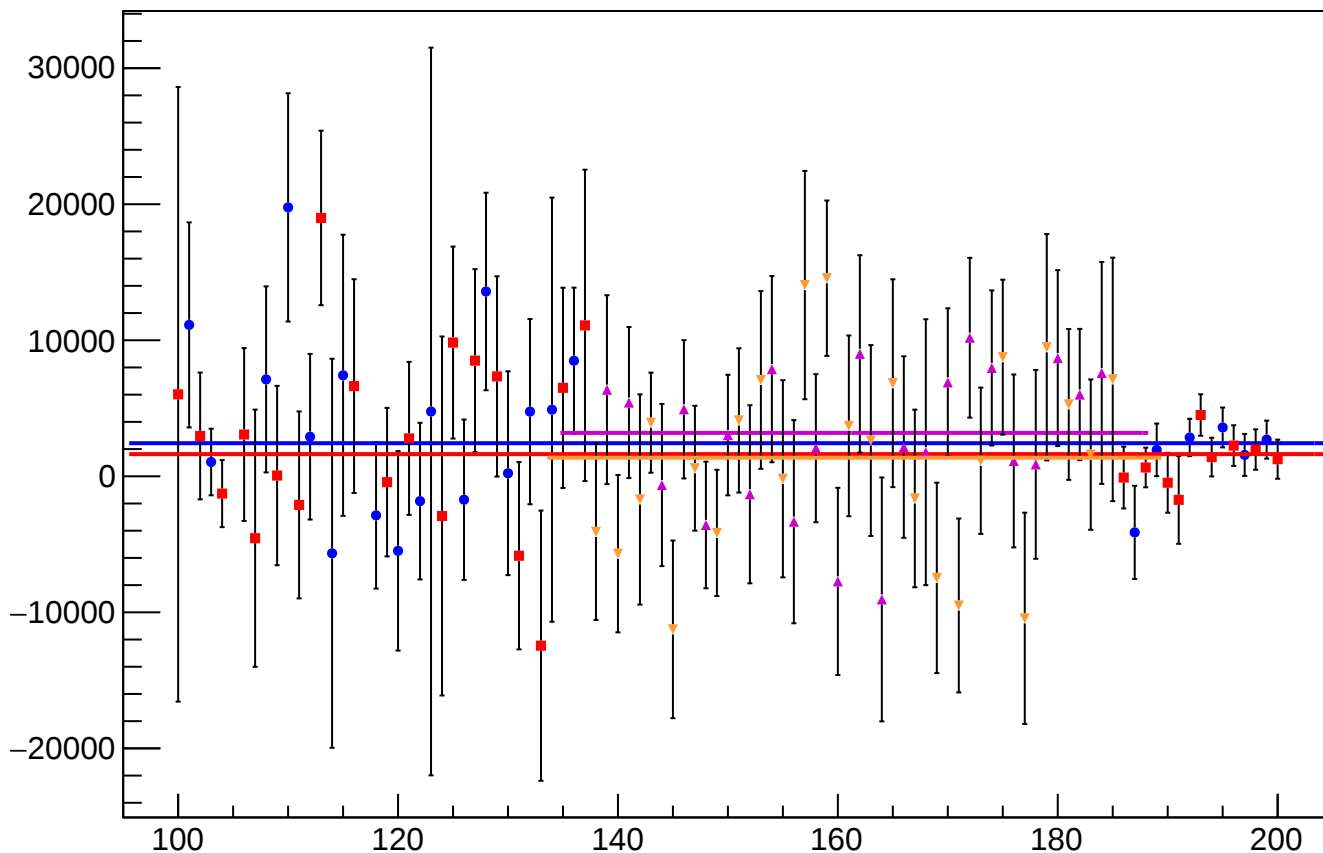
Right: 3762.749 $\pm$ 0.564 χ^2 /NDF: 1857916.2/50

In: 4327.945 $\pm$ 0.595 χ^2 /NDF: 2797916.6/45

Out: 4283.818 $\pm$ 0.558 χ^2 /NDF: 3002494.4/52

All: 4304.465 $\pm$ 0.407 χ^2 /NDF: 5803341.7/98

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2433.641+/-602.567 χ^2/NDF : 18.8/22

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1629.597+/-513.090 χ^2/NDF : 24.6/27

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

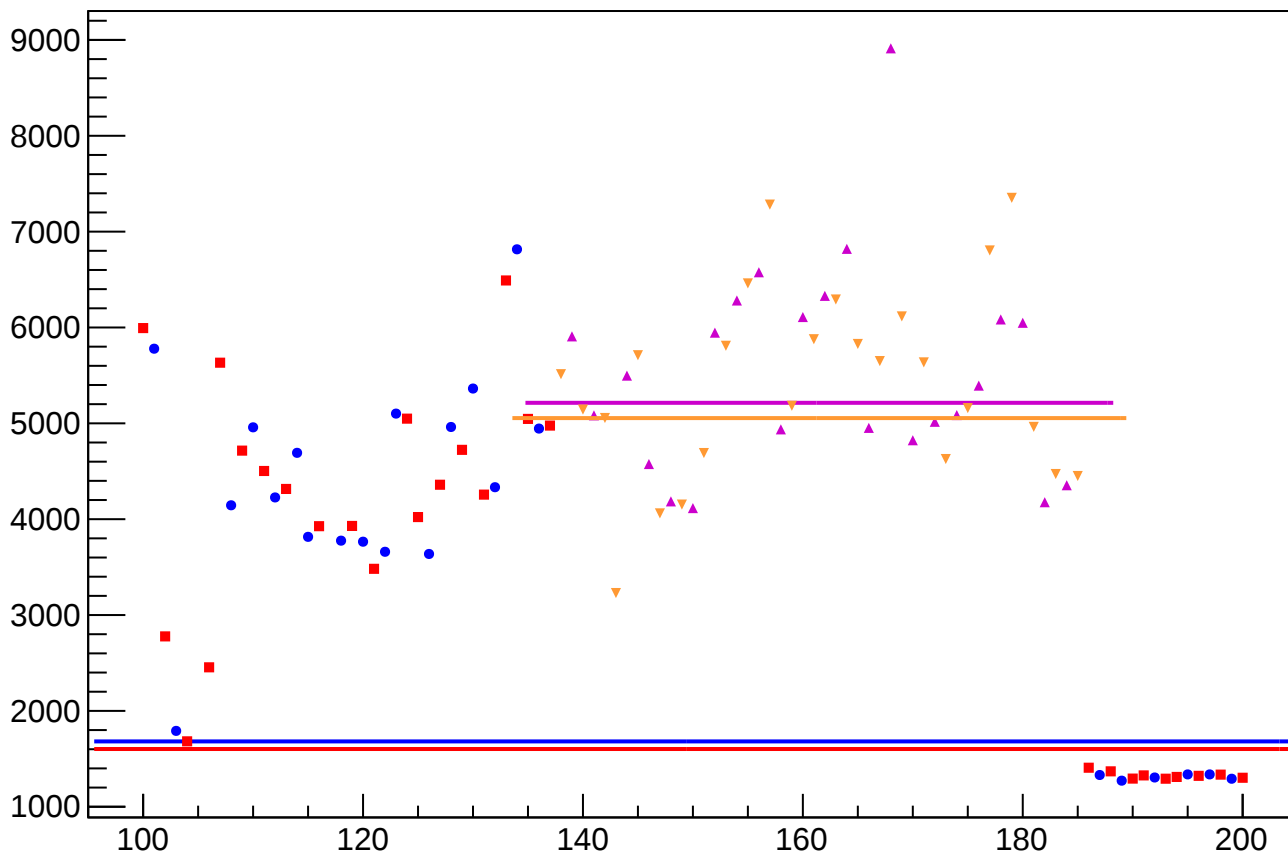
Right: 1967.545+/-390.653 χ^2/NDF : 44.4/50

In: 2572.831+/-544.400 χ^2/NDF : 33.1/45

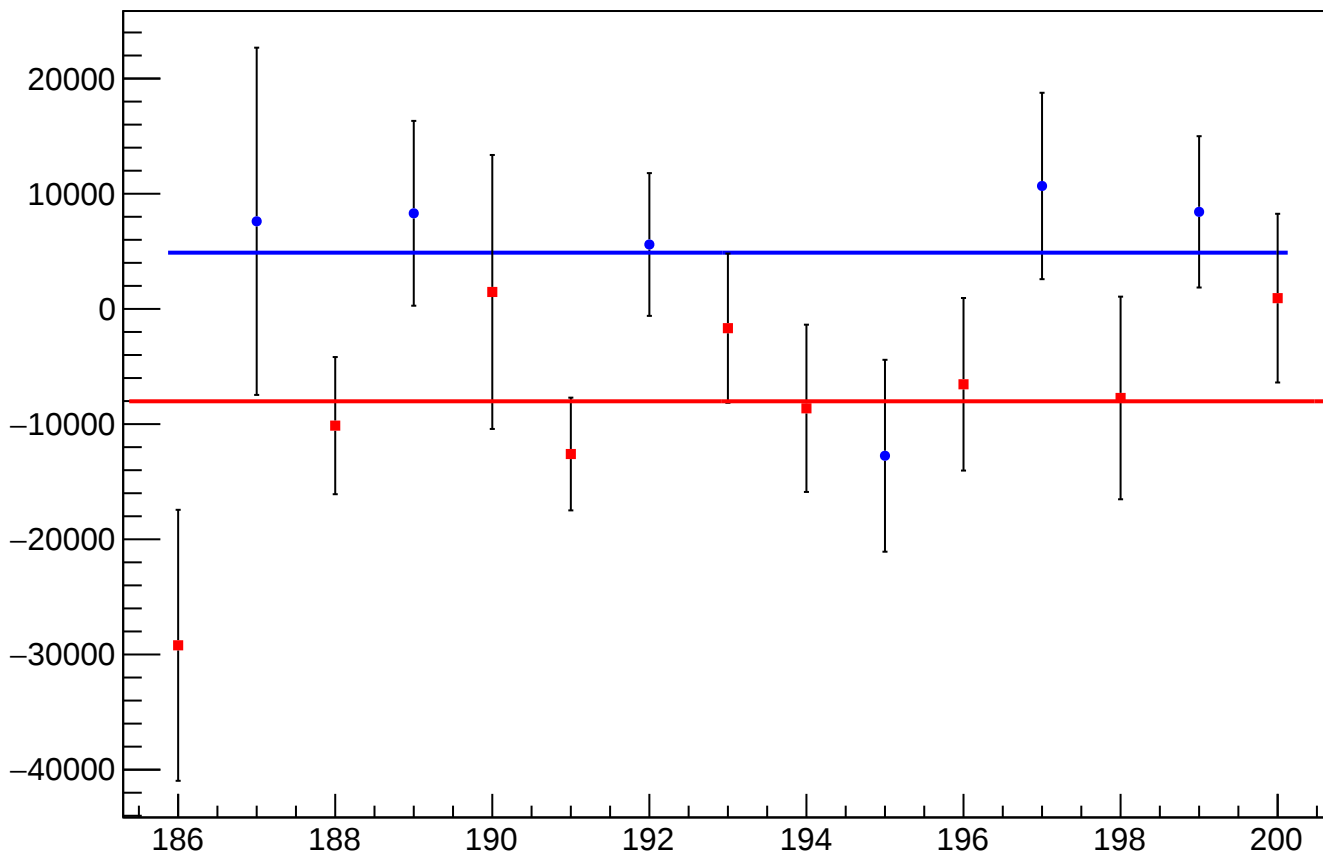
Out: 1589.071+/-472.152 χ^2/NDF : 52.6/52

All: 2011.385+/-356.690 χ^2/NDF : 87.5/98

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 4884.437+/-3180.730 χ^2/NDF : 5.5/5

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -8018.276+/-2380.622 χ^2/NDF : 7.4/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

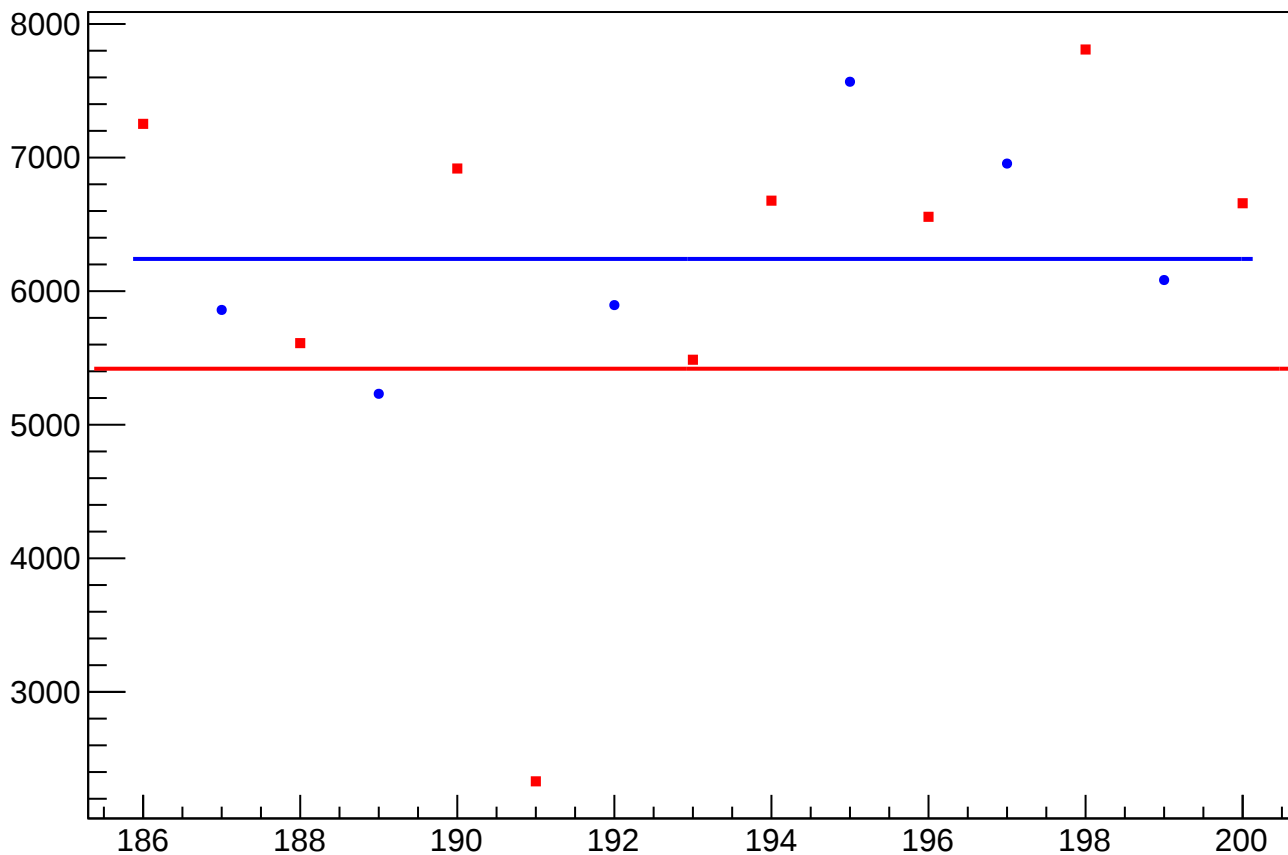
Right: -3385.582+/-1905.913 χ^2/NDF : 23.4/14

In: 4884.437+/-3180.730 χ^2/NDF : 5.5/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -3385.582+/-1905.913 χ^2/NDF : 23.4/14

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 6241.237+/-2.249 χ^2/NDF : 106630.4/5

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5419.413+/-1.683 χ^2/NDF : 1190402.7/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

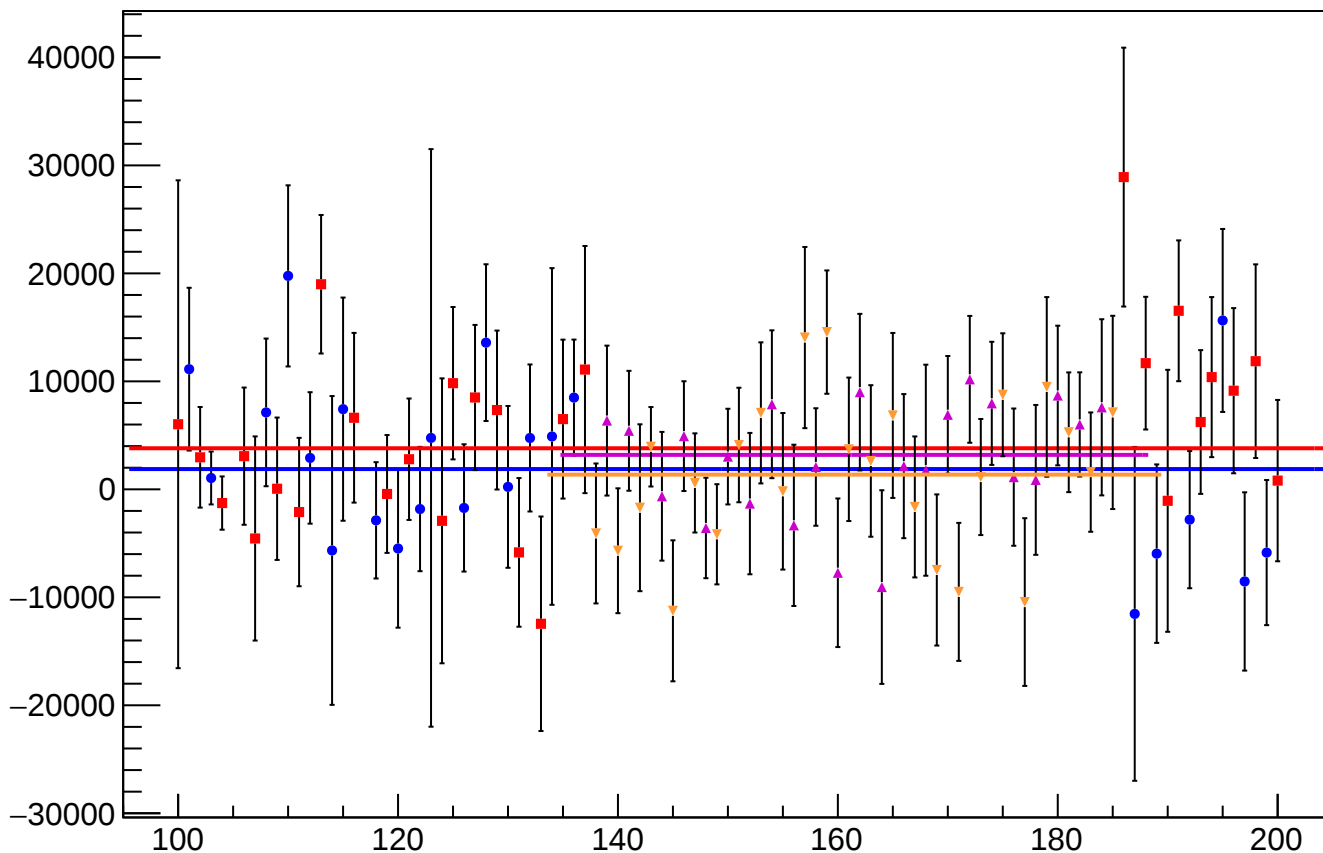
Right: 5714.487+/-1.348 χ^2/NDF : 1382610.5/14

In: 6241.237+/-2.249 χ^2/NDF : 106630.4/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5714.487+/-1.348 χ^2/NDF : 1382610.5/14

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1876.274+/-1329.092 χ^2/NDF : 22.1/22

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3803.068+/-1217.977 χ^2/NDF : 31.8/27

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

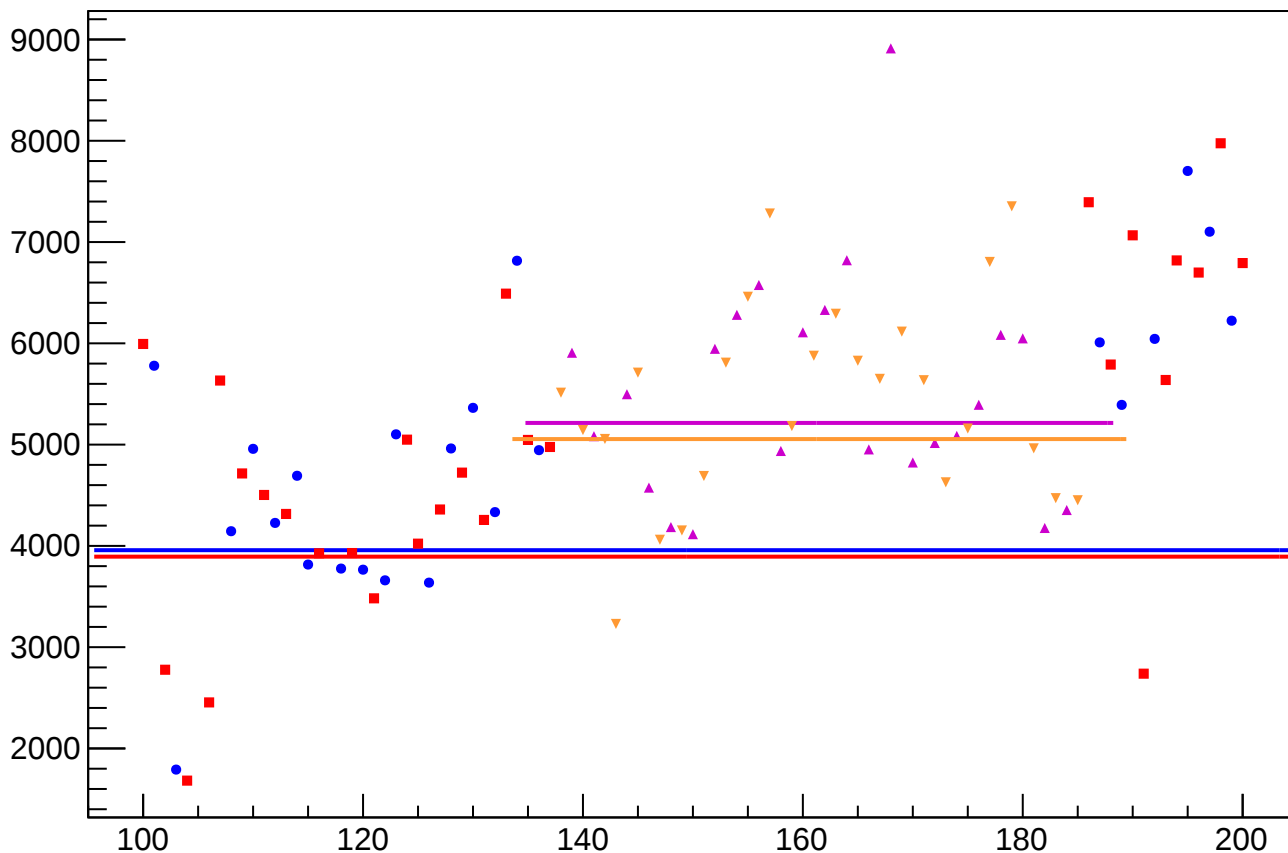
Right: 2923.567+/-897.957 χ^2/NDF : 55.0/50

In: 2563.585+/-918.214 χ^2/NDF : 36.6/45

Out: 2572.300+/-857.070 χ^2/NDF : 61.8/52

All: 2568.242+/-626.541 χ^2/NDF : 98.3/98

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3957.647 $\pm$ 0.940

χ^2 /NDF: 3208937.7/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

Right: 3922.750 $\pm$ 0.632 χ^2 /NDF: 7483308.5/50

Left Out: 5054.711 $\pm$ 0.853

χ^2 /NDF: 1437224.7/24

In: 4614.412 $\pm$ 0.649 χ^2 /NDF: 5195769.9/45

Right Out: 3893.859 $\pm$ 0.855

χ^2 /NDF: 4271850.4/27

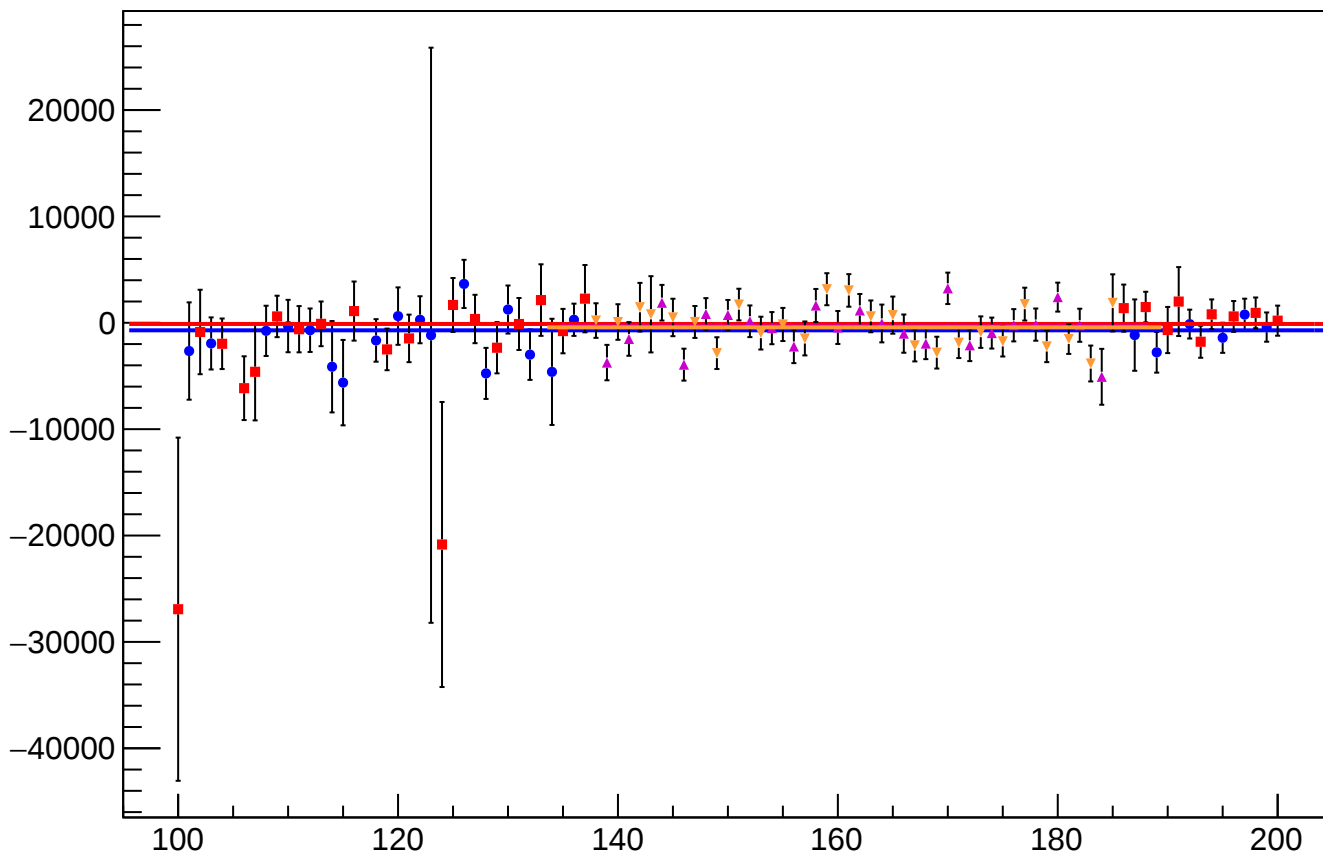
Out: 4475.743 $\pm$ 0.604 χ^2 /NDF: 6632867.2/52

Left In: 5214.120 $\pm$ 0.898

χ^2 /NDF: 1052501.5/22

All: 4540.063 $\pm$ 0.442 χ^2 /NDF: 11853094.3/95

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -707.862 $\pm$ 442.537 χ^2 /NDF: 15.2/22

Left Out: -431.715 $\pm$ 320.540 χ^2 /NDF:33.1/24

Right Out: -110.155 $\pm$ 401.270 χ^2 /NDF: 20.2/27

Left In: -343.737 $\pm$ 324.368 χ^2 /NDF:33.8/22

Left: -388.248 $\pm$ 227.997 χ^2 /NDF: 66.9/47

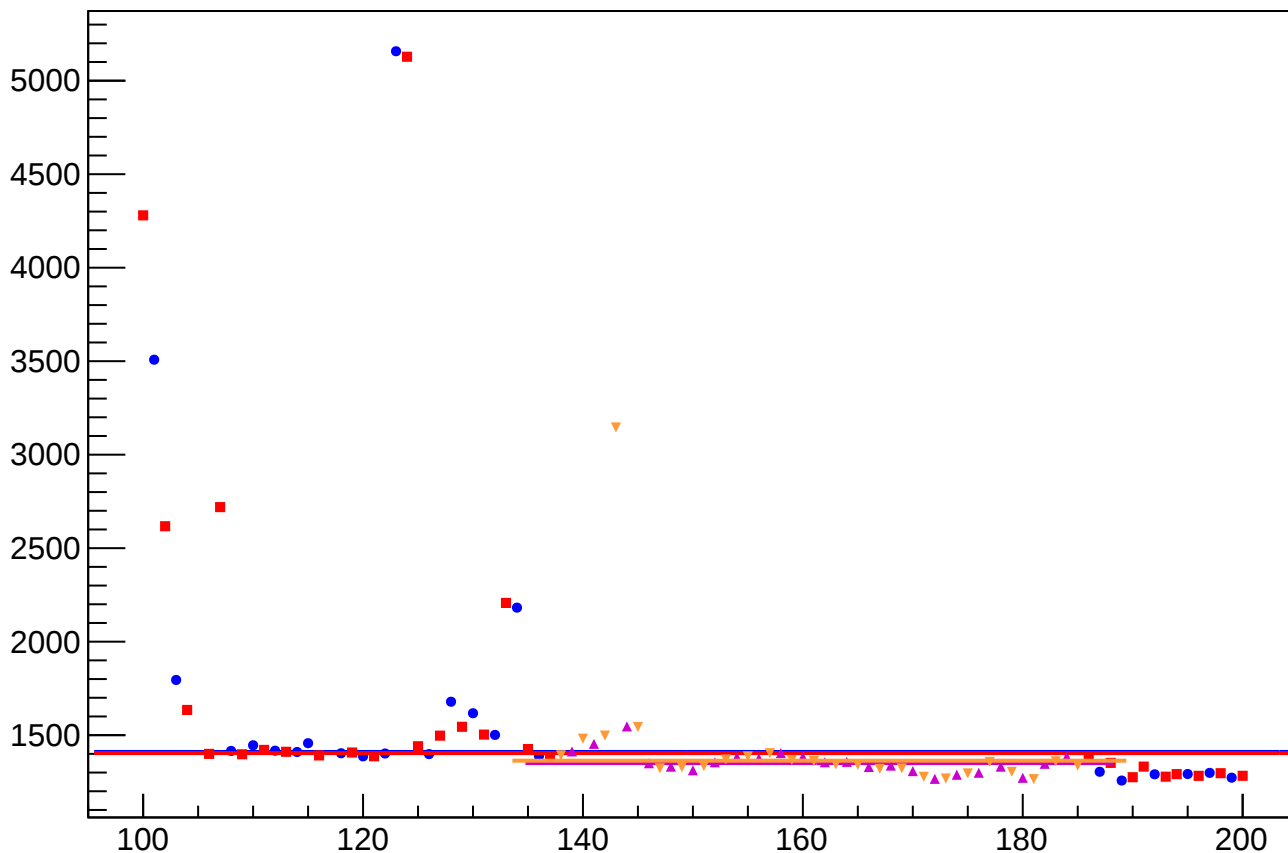
Right: -379.847 $\pm$ 297.262 χ^2 /NDF: 36.4/50

In: -470.995 $\pm$ 261.617 χ^2 /NDF:49.4/45

Out: -306.455 $\pm$ 250.444 χ^2 /NDF:53.7/52

All: -385.136 $\pm$ 180.912 χ^2 /NDF: 103.3/98

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1410.102+/-0.313 χ^2/NDF : 677788.3/22

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1404.027+/-0.284 χ^2/NDF : 796047.1/27

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

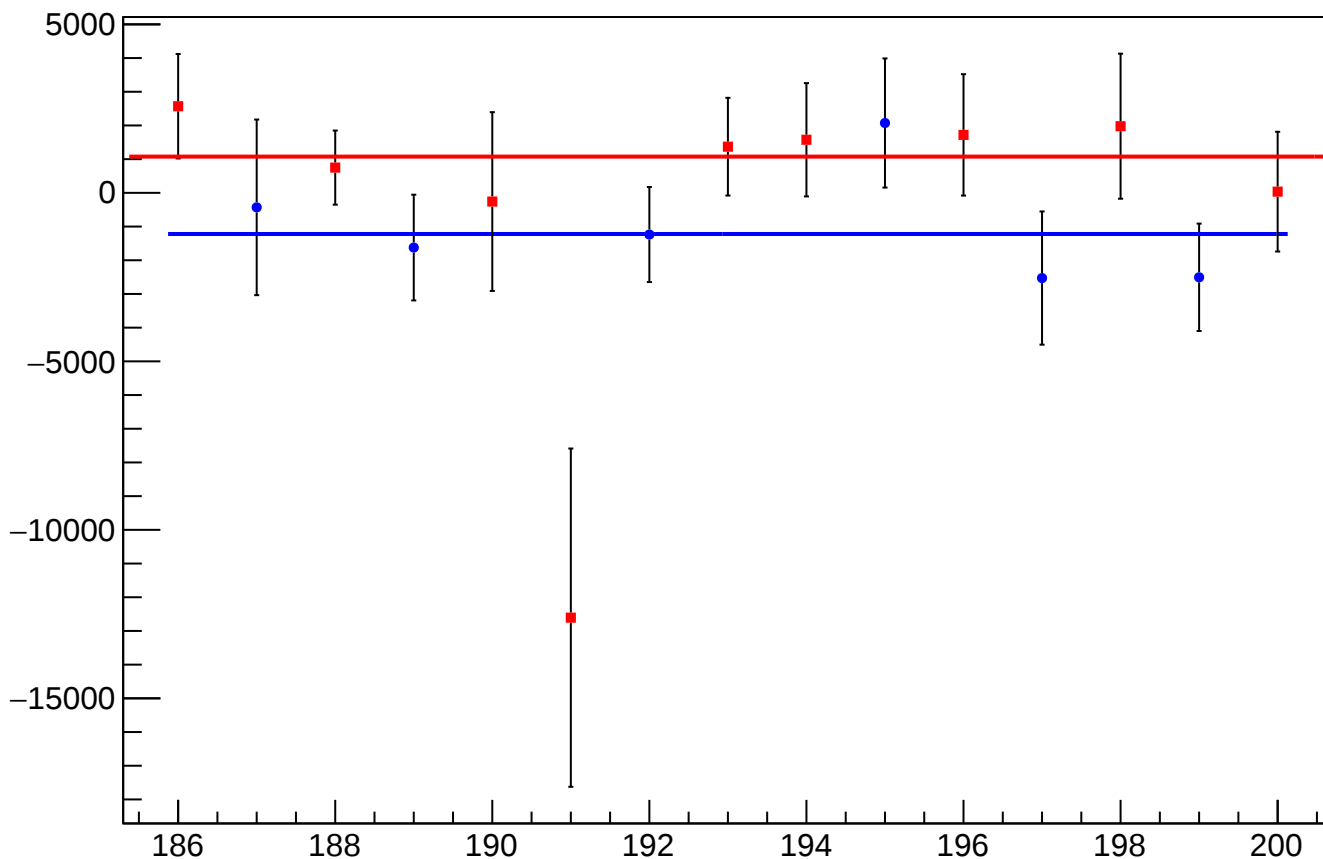
Right: 1406.768+/-0.210 χ^2/NDF : 1474042.3/50

In: 1371.596+/-0.185 χ^2/NDF : 768209.7/45

Out: 1379.324+/-0.177 χ^2/NDF : 1383690.0/52

All: 1375.629+/-0.128 χ^2/NDF : 2152810.3/98

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -1220.470+/-710.840 χ^2/NDF : 4.2/5

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1075.850+/-568.378 χ^2/NDF : 9.5/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

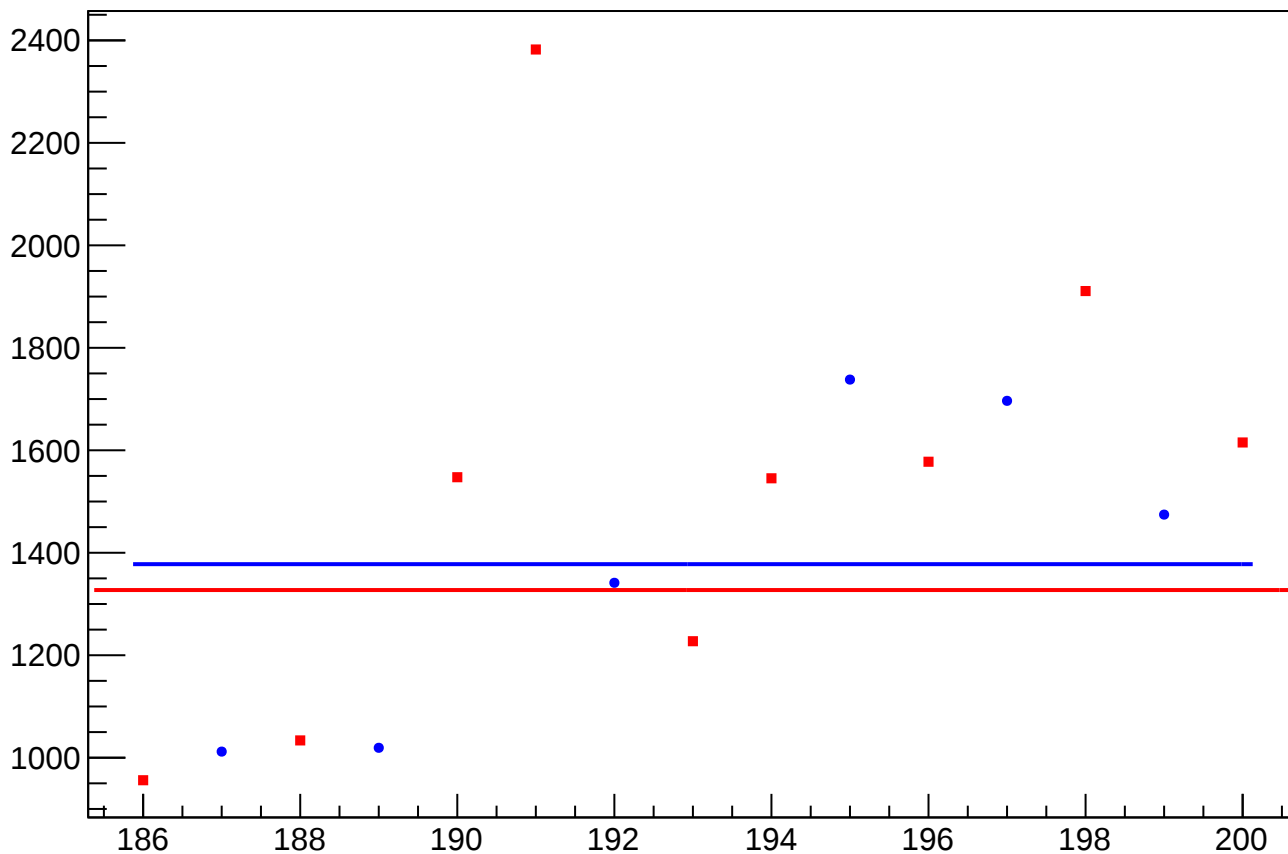
Right: 180.290+/-443.918 χ^2/NDF : 20.0/14

In: -1220.470+/-710.840 χ^2/NDF : 4.2/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 180.290+/-443.918 χ^2/NDF : 20.0/14

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1377.748+/-0.503 χ^2/NDF : 275213.9/5

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1327.248+/-0.402 χ^2/NDF : 640720.0/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

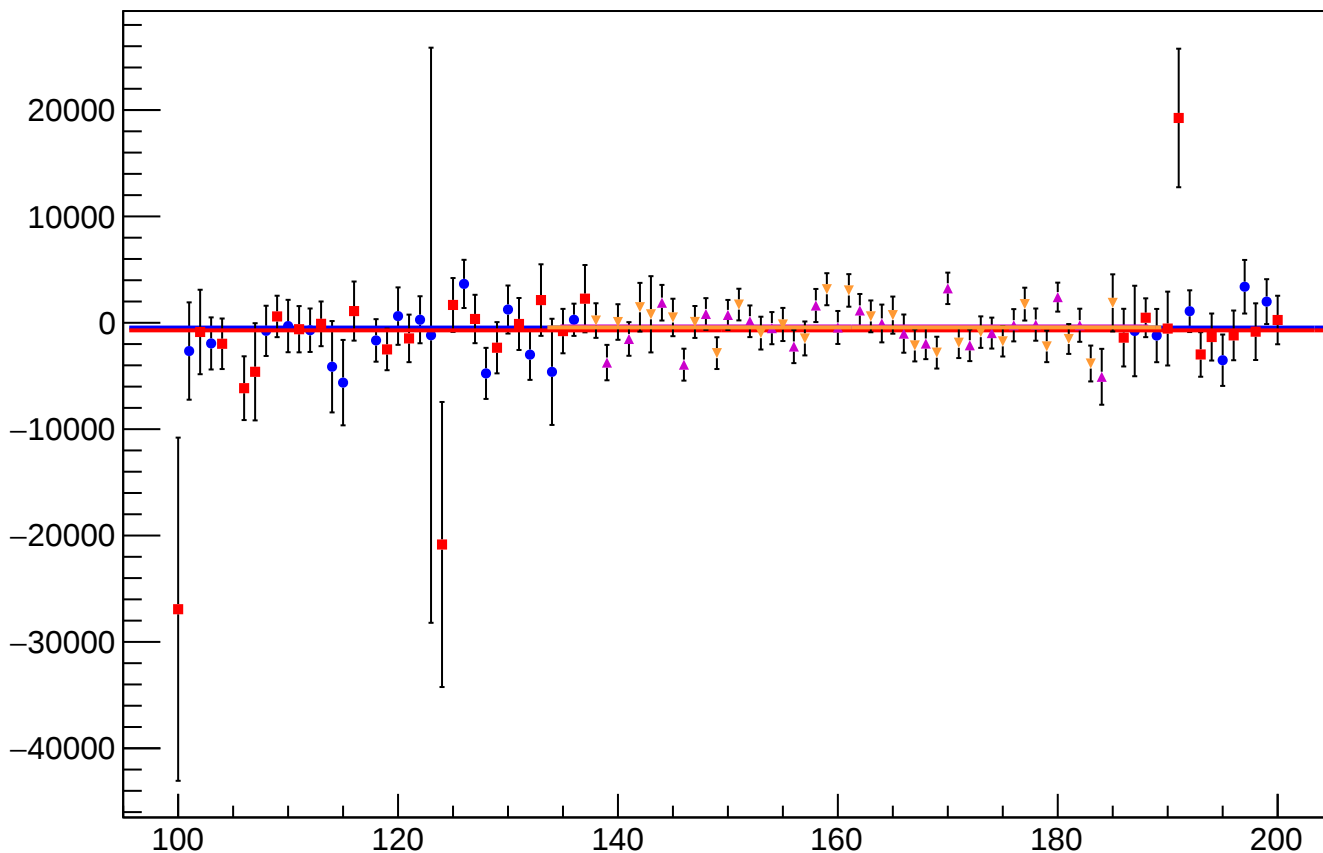
Right: 1346.943+/-0.314 χ^2/NDF : 922091.4/14

In: 1377.748+/-0.503 χ^2/NDF : 275213.9/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1346.943+/-0.314 χ^2/NDF : 922091.4/14

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -448.908+/-516.053 χ^2/NDF : 18.8/22

Left Out: -431.715+/-320.540 χ^2/NDF : 33.1/24

Right Out: -710.659+/-482.195 χ^2/NDF : 25.7/27

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

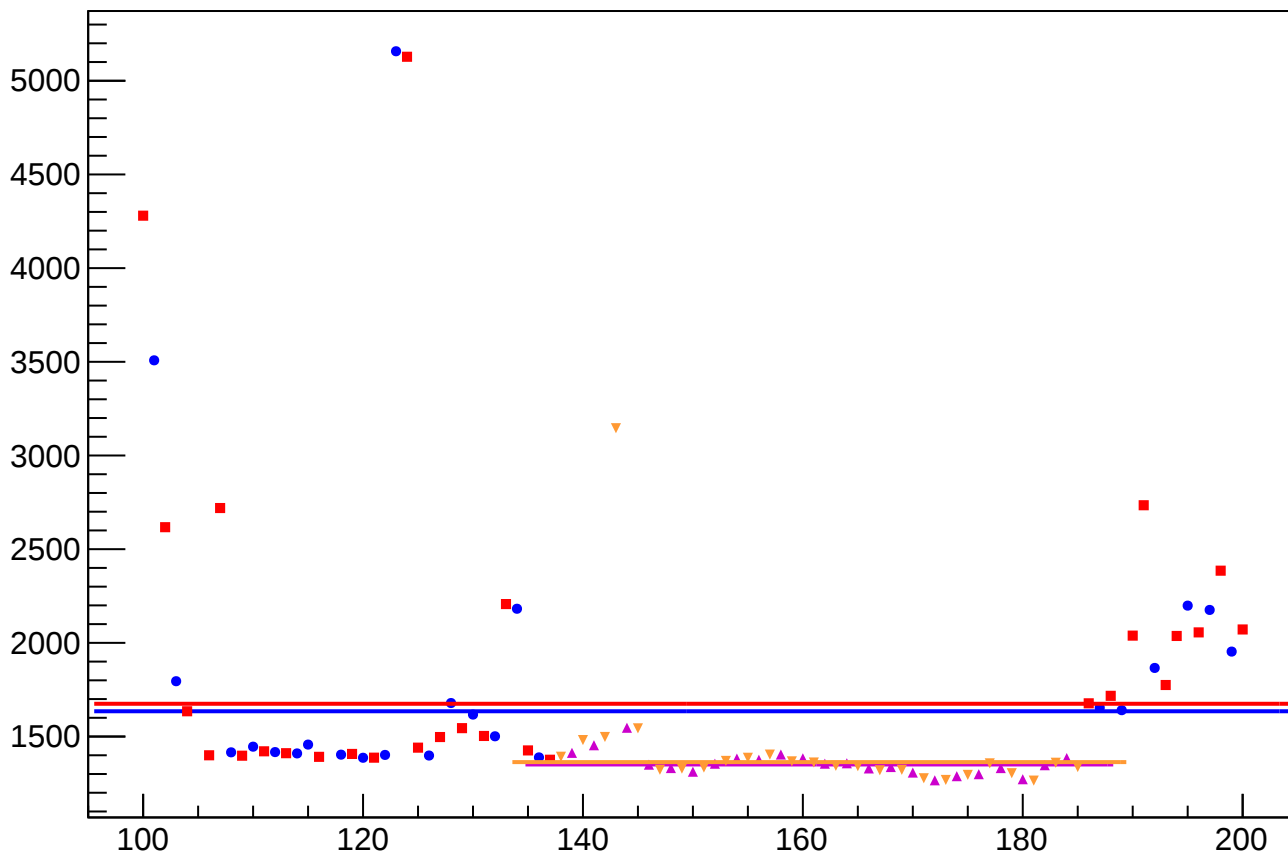
Right: -588.651+/-352.326 χ^2/NDF : 44.7/50

In: -373.521+/-274.624 χ^2/NDF : 52.6/45

Out: -517.202+/-266.941 χ^2/NDF : 59.0/52

All: -447.399+/-191.414 χ^2/NDF : 111.8/98

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1634.899+/-0.365 χ^2/NDF : 885399.4/22

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1674.874+/-0.341 χ^2/NDF : 1141730.4/27

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

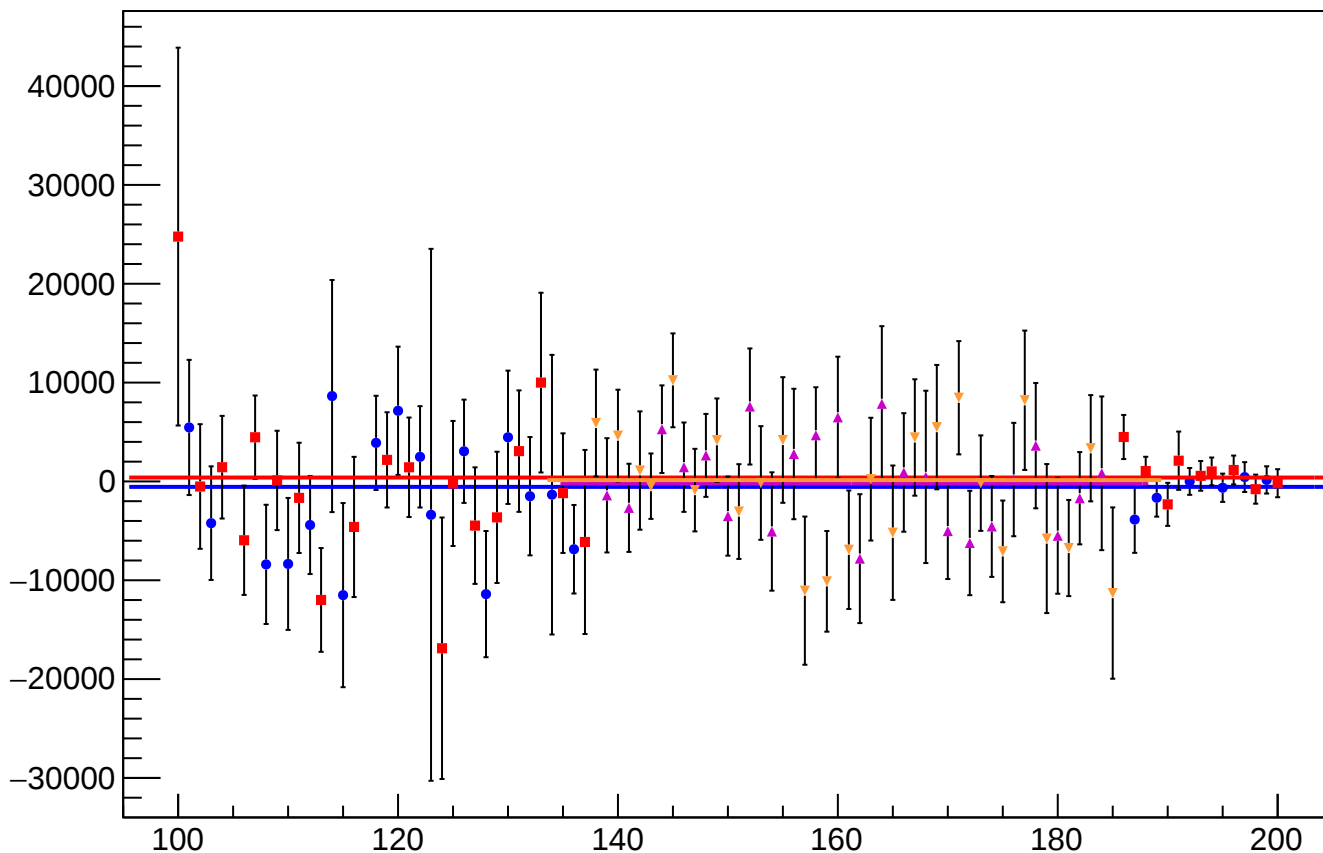
Right: 1656.241+/-0.249 χ^2/NDF : 2033536.9/50

In: 1431.334+/-0.194 χ^2/NDF : 1386703.8/45

Out: 1458.969+/-0.189 χ^2/NDF : 2295116.2/52

All: 1445.544+/-0.135 χ^2/NDF : 3692233.4/98

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -550.891 ± 598.307 $\chi^2/\text{NDF}: 17.6/22$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 393.593 ± 505.722 $\chi^2/\text{NDF}: 21.7/27$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

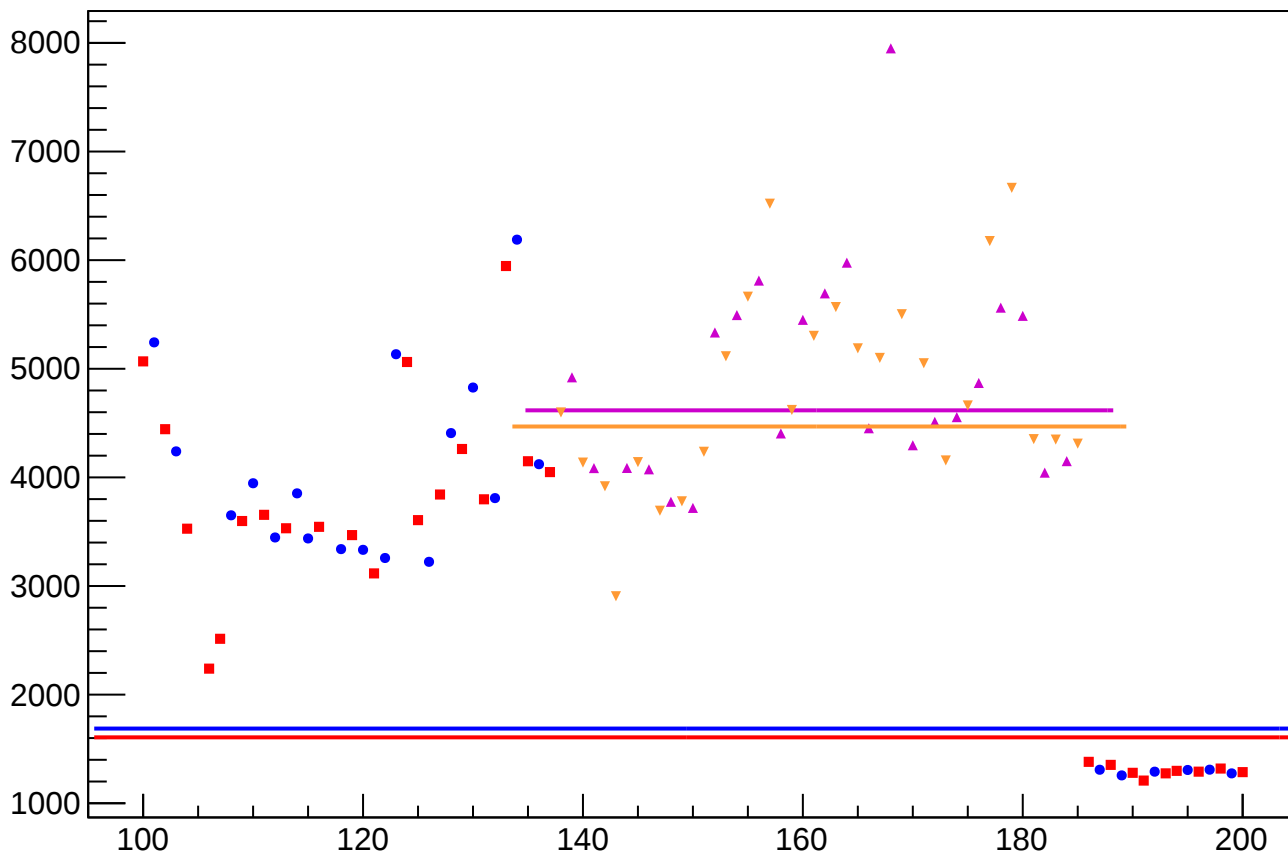
Right: 0.003 ± 386.232 $\chi^2/\text{NDF}: 40.7/50$

In: -473.405 ± 528.092 $\chi^2/\text{NDF}: 32.4/45$

Out: 345.526 ± 456.876 $\chi^2/\text{NDF}: 49.9/52$

All: -5.036 ± 345.516 $\chi^2/\text{NDF}: 83.6/98$

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1687.601 $\pm$ 0.423 χ^2 /NDF: 5114622.2/22

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF: 1380601.0/24

Right Out: 1606.667 $\pm$ 0.357 χ^2 /NDF: 5124235.1/27

Left In: 4617.293 $\pm$ 0.794 χ^2 /NDF: 999599.8/22

Left: 4538.970 $\pm$ 0.547 χ^2 /NDF: 2398663.8/47

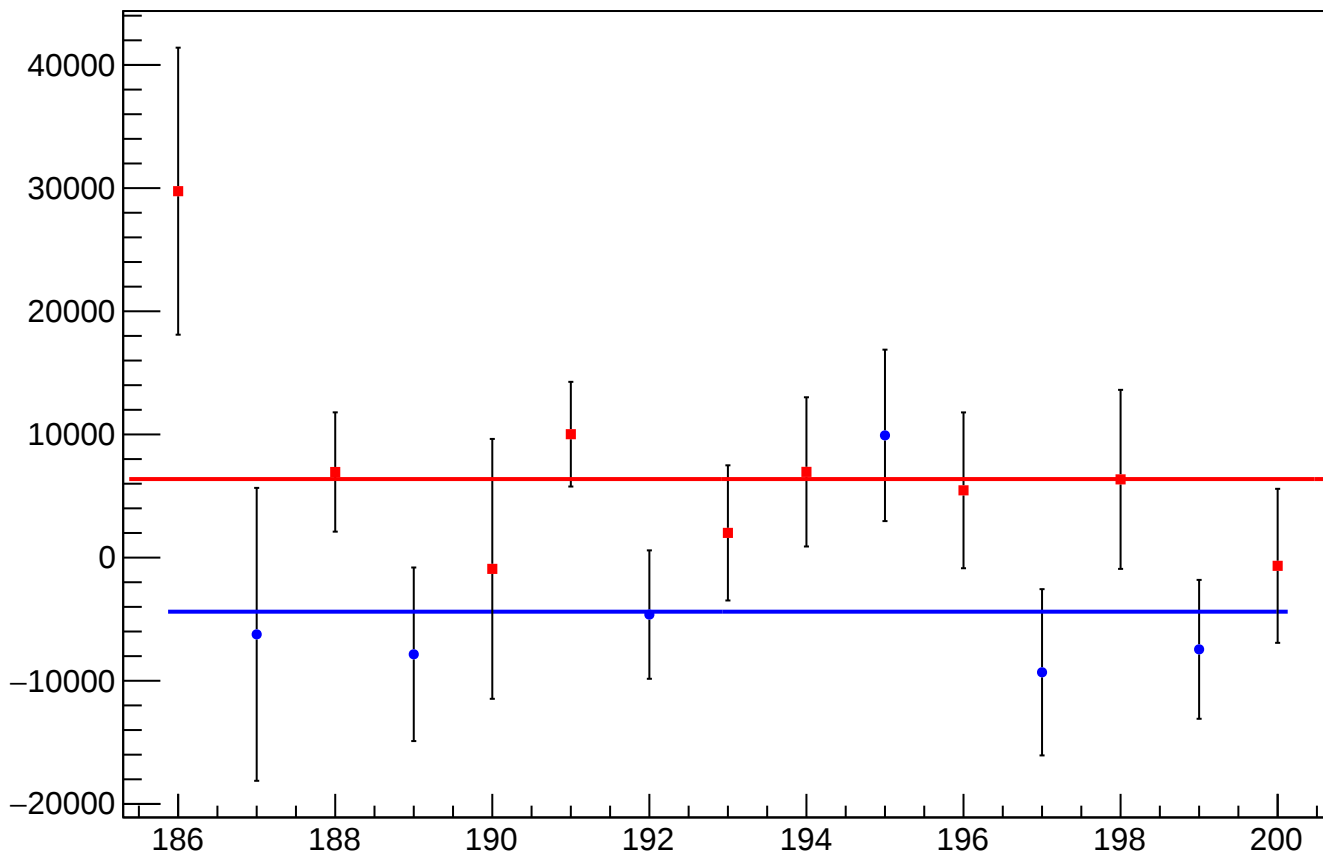
Right: 1640.346 $\pm$ 0.273 χ^2 /NDF: 10260225.8/50

In: 2334.882 $\pm$ 0.373 χ^2 /NDF: 16709202.9/45

Out: 2131.745 $\pm$ 0.323 χ^2 /NDF: 18285028.9/52

All: 2218.602 $\pm$ 0.244 χ^2 /NDF: 35163629.3/95

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -4390.263+/-2691.341 χ^2/NDF : 5.3/5

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 6377.525+/-2023.126 χ^2/NDF : 7.2/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

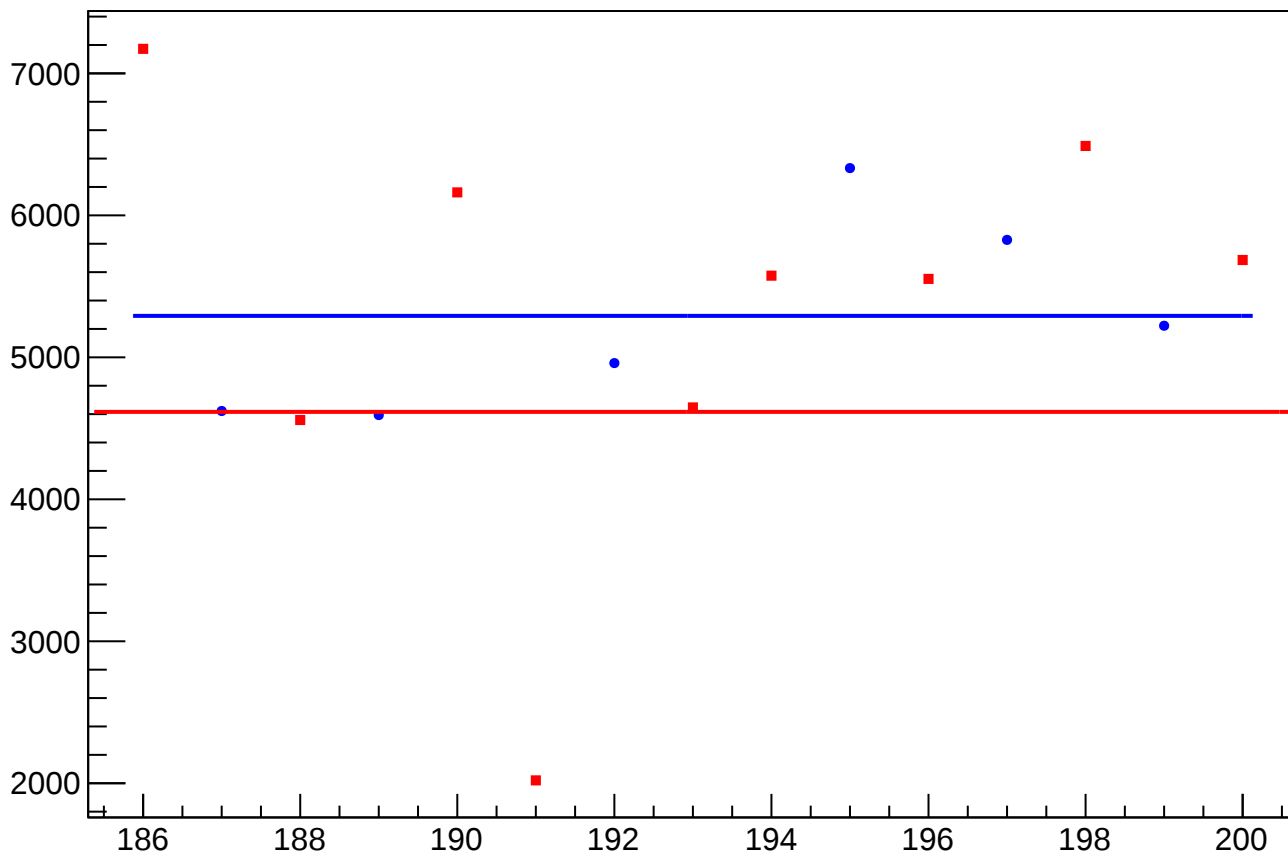
Right: 2489.769+/-1617.167 χ^2/NDF : 22.7/14

In: -4390.263+/-2691.341 χ^2/NDF : 5.3/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 2489.769+/-1617.167 χ^2/NDF : 22.7/14

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5292.100+/-1.903 χ^2/NDF : 91759.2/5

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4615.807+/-1.431 χ^2/NDF : 1171000.8/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

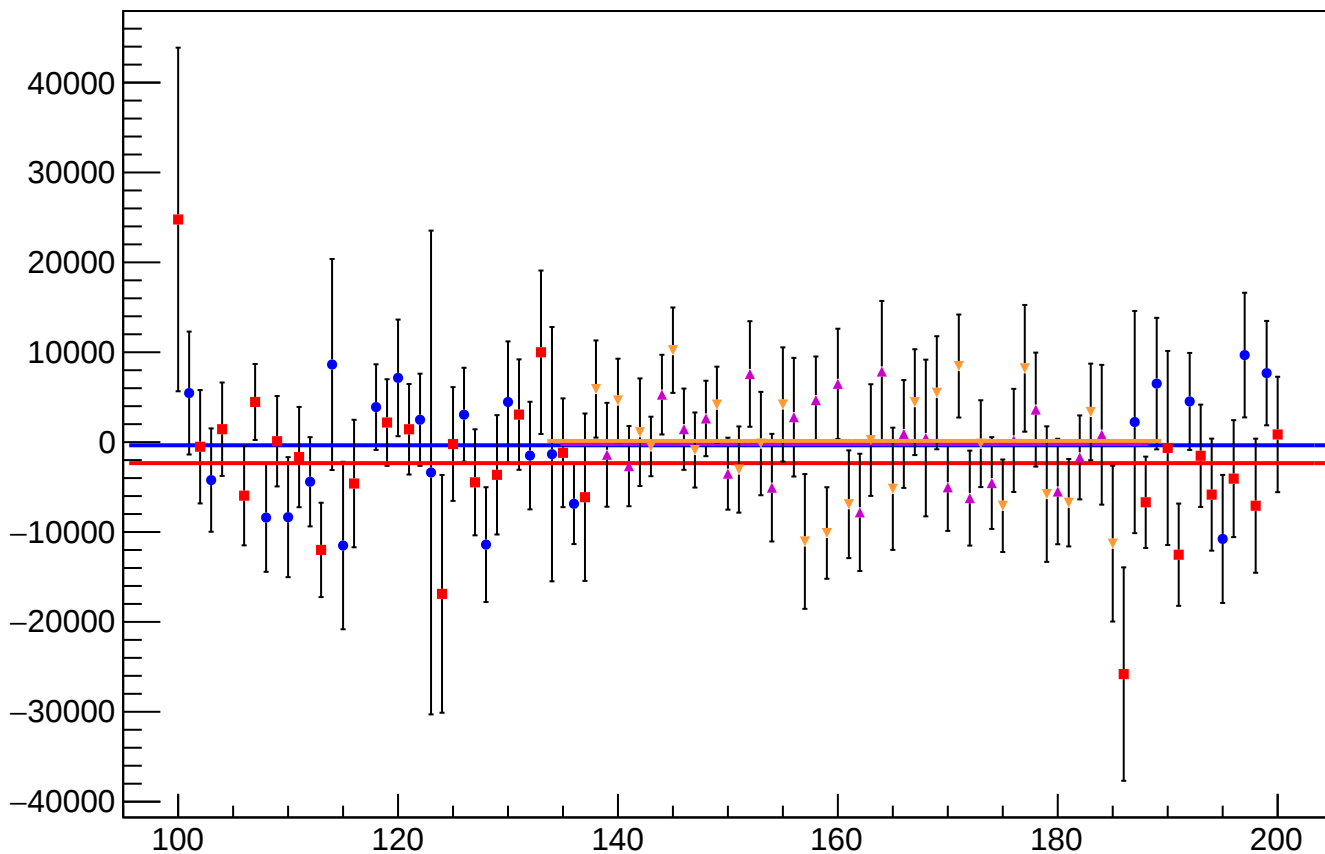
Right: 4859.985+/-1.144 χ^2/NDF : 1343451.3/14

In: 5292.100+/-1.903 χ^2/NDF : 91759.2/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4859.985+/-1.144 χ^2/NDF : 1343451.3/14

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -350.388+/-1331.669 χ^2/NDF : 23.5/22

Left Out: 132.142+/-1065.543 χ^2/NDF : 28.1/24

Right Out: -2337.795+/-1169.187 χ^2/NDF : 24.1/27

Left In: -200.182+/-1123.499 χ^2/NDF : 14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

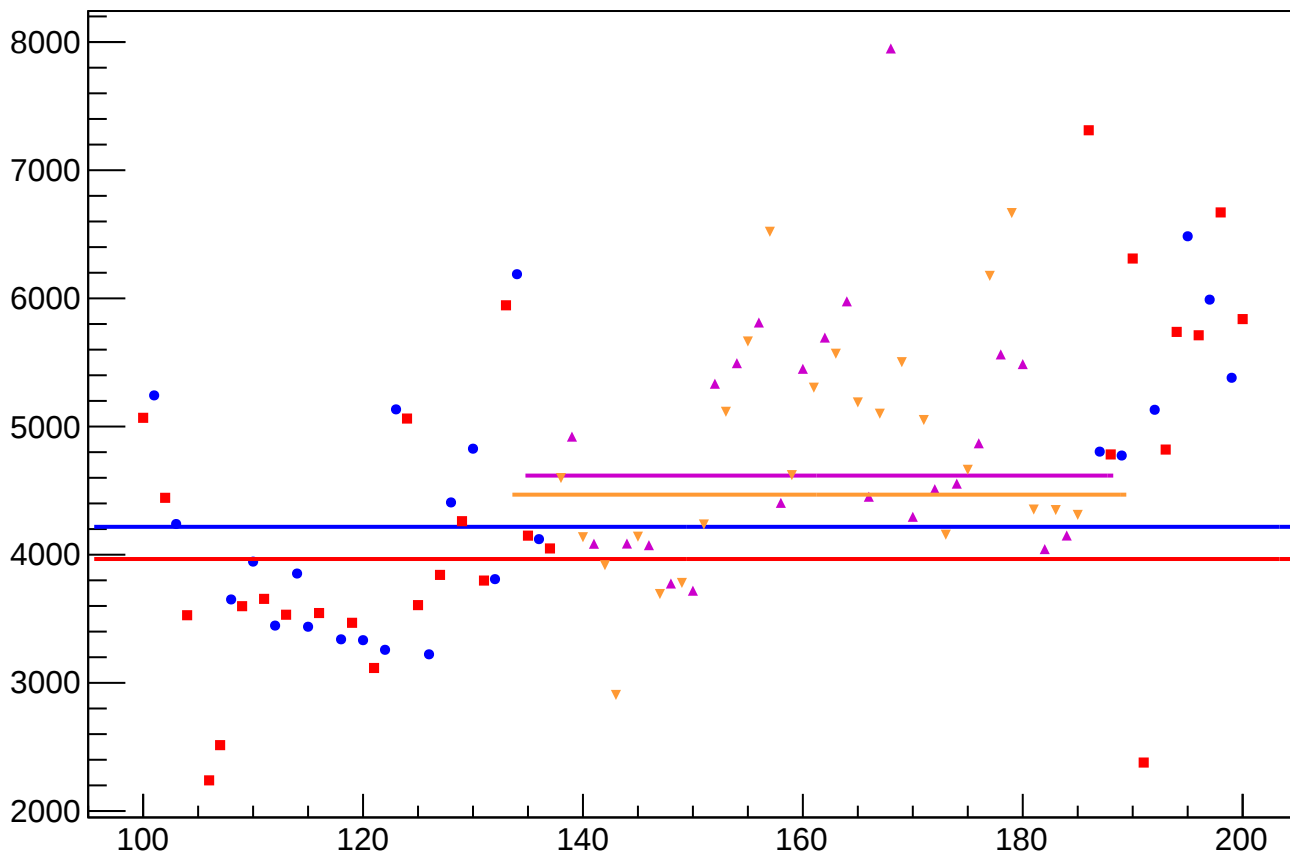
Right: -1472.671+/-878.602 χ^2/NDF : 48.8/50

In: -262.640+/-858.712 χ^2/NDF : 38.2/45

Out: -988.519+/-787.550 χ^2/NDF : 54.6/52

All: -656.898+/-580.412 χ^2/NDF : 93.2/98

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4217.506 $\pm$ 0.942 χ^2/NDF : 934212.6/22

Left Out: 4468.520 $\pm$ 0.753 χ^2/NDF : 1380601.0/24

Right Out: 3966.359 $\pm$ 0.821 χ^2/NDF : 2005305.9/27

Left In: 4617.293 $\pm$ 0.794 χ^2/NDF : 999599.8/22

Left: 4538.970 $\pm$ 0.547 χ^2/NDF : 2398663.8/47

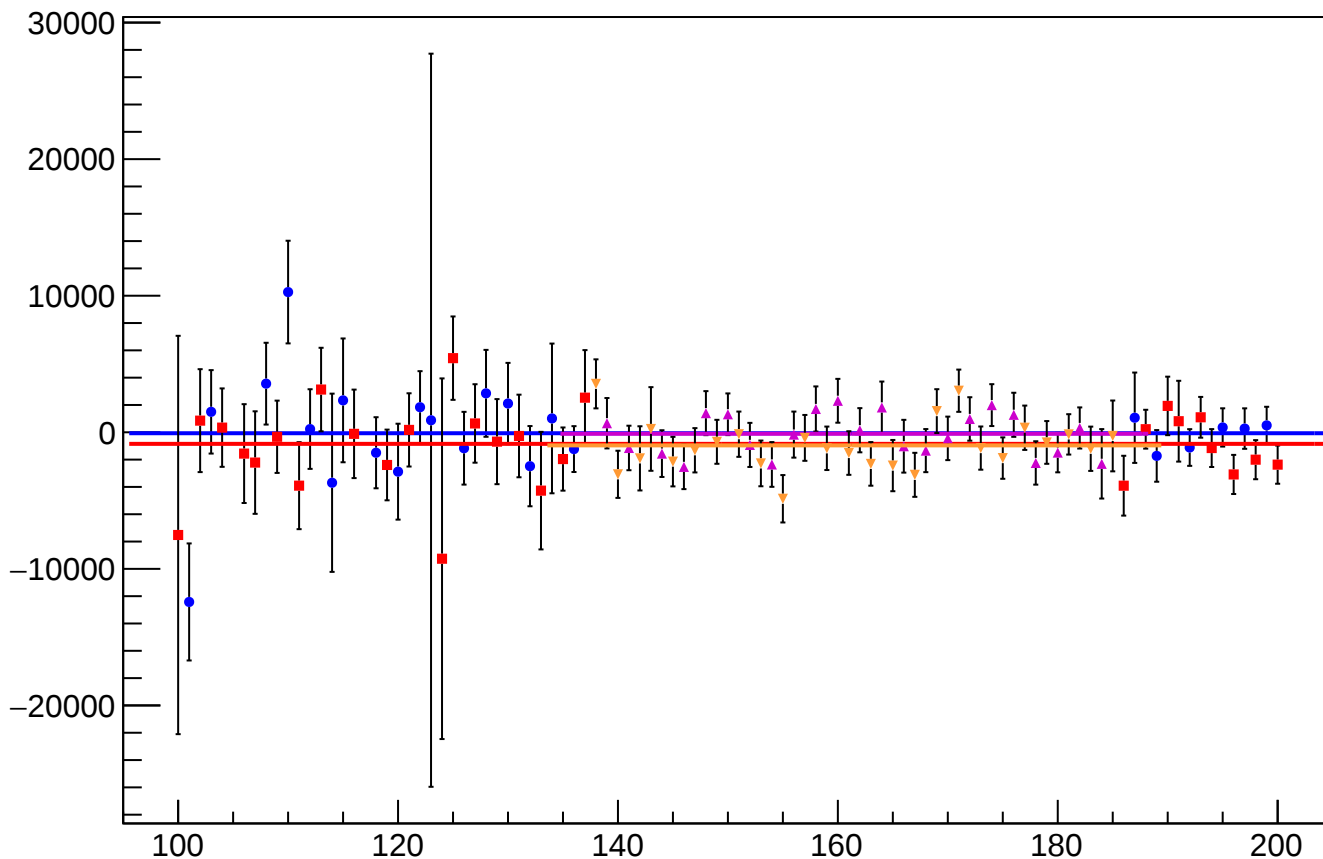
Right: 4074.875 $\pm$ 0.619 χ^2/NDF : 2979920.2/50

In: 4451.051 $\pm$ 0.607 χ^2/NDF : 2039118.7/45

Out: 4239.040 $\pm$ 0.555 χ^2/NDF : 3588897.3/52

All: 4335.584 $\pm$ 0.410 χ^2/NDF : 5694414.9/98

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -68.453 ± 488.252 $\chi^2/\text{NDF}: 24.2/22$

Left Out: -958.410 ± 339.496 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -846.976 ± 432.895 $\chi^2/\text{NDF}: 21.3/27$

Left In: -107.512 ± 343.663 $\chi^2/\text{NDF}: 19.5/22$

Left: -538.150 ± 241.520 $\chi^2/\text{NDF}: 51.1/47$

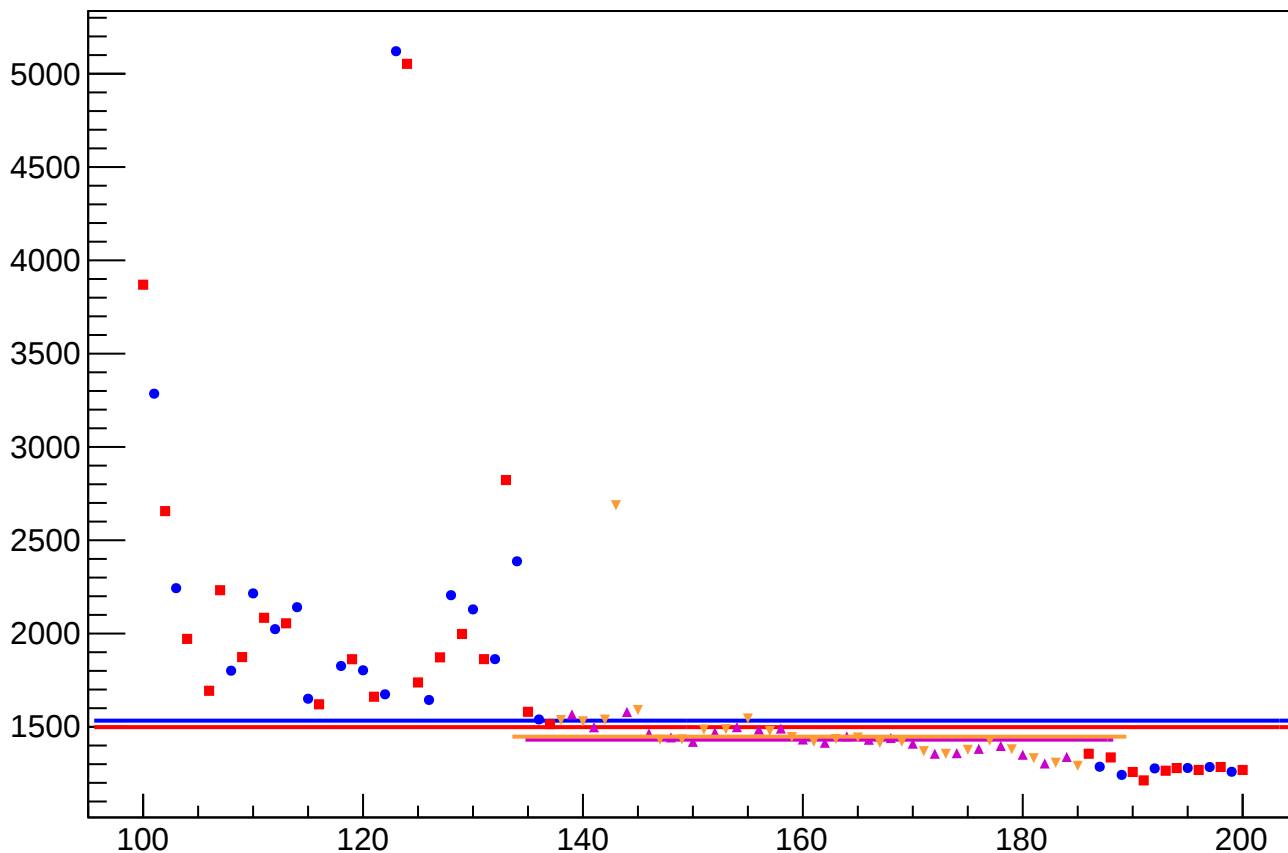
Right: -504.331 ± 323.914 $\chi^2/\text{NDF}: 46.9/50$

In: -94.572 ± 281.028 $\chi^2/\text{NDF}: 43.7/45$

Out: -915.974 ± 267.143 $\chi^2/\text{NDF}: 49.8/52$

All: -526.066 ± 193.621 $\chi^2/\text{NDF}: 98.0/98$

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1533.290+/-0.345 χ^2/NDF : 1258933.8/22

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1498.562+/-0.306 χ^2/NDF : 1392654.9/27

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

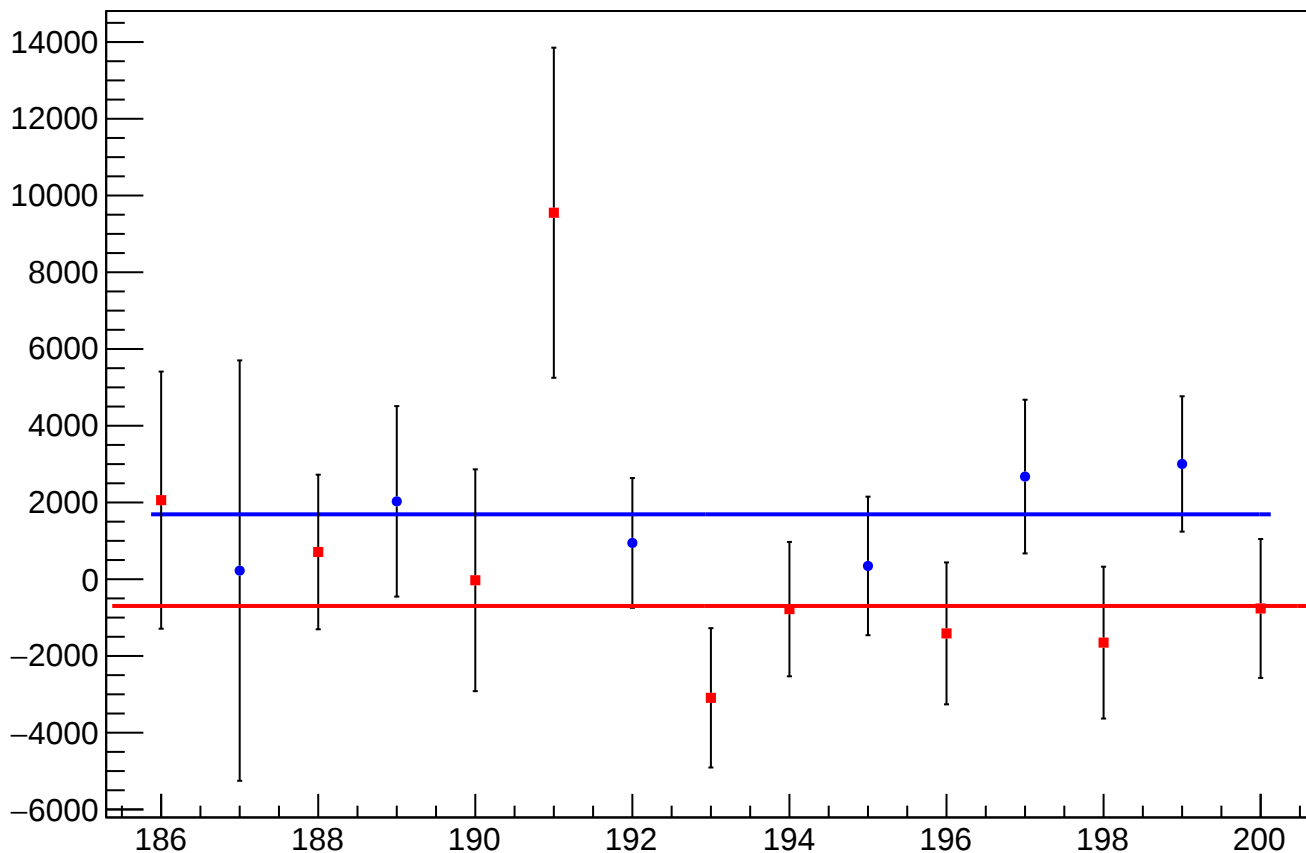
Right: 1513.847+/-0.229 χ^2/NDF : 2657253.5/50

In: 1465.193+/-0.199 χ^2/NDF : 1392243.3/45

Out: 1466.979+/-0.189 χ^2/NDF : 1829102.7/52

All: 1466.131+/-0.137 χ^2/NDF : 3221388.5/98

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1691.108+/-838.333 χ^2/NDF : 1.6/5

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -696.760+/-708.604 χ^2/NDF : 9.0/8

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

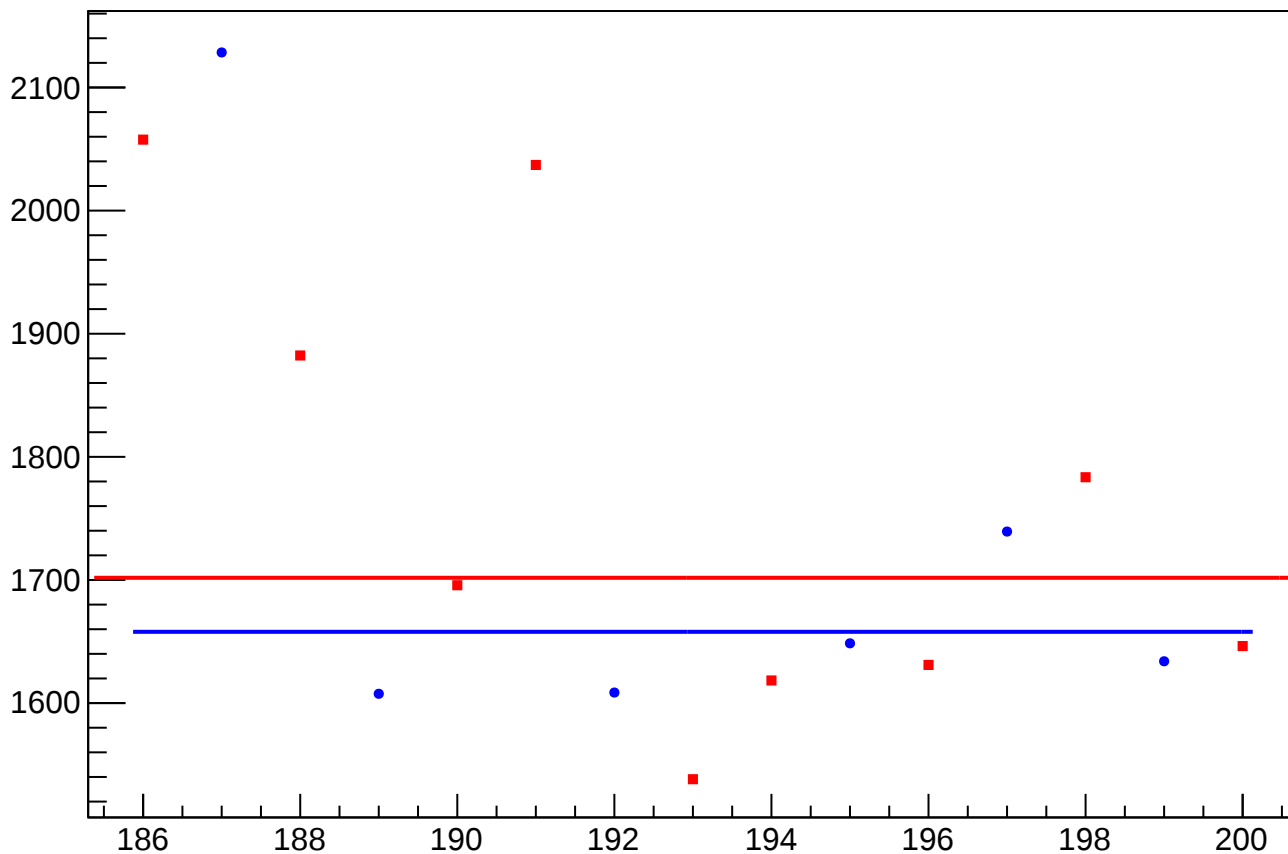
Right: 298.322+/-541.179 χ^2/NDF : 15.4/14

In: 1691.108+/-838.333 χ^2/NDF : 1.6/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 298.322+/-541.179 χ^2/NDF : 15.4/14

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1657.896+/-0.593 χ^2/NDF : 21008.4/5

Left Out: 0.000+/-0.000 χ^2/NDF :0.0/0

Right Out: 1701.775+/-0.501 χ^2/NDF : 79768.7/8

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

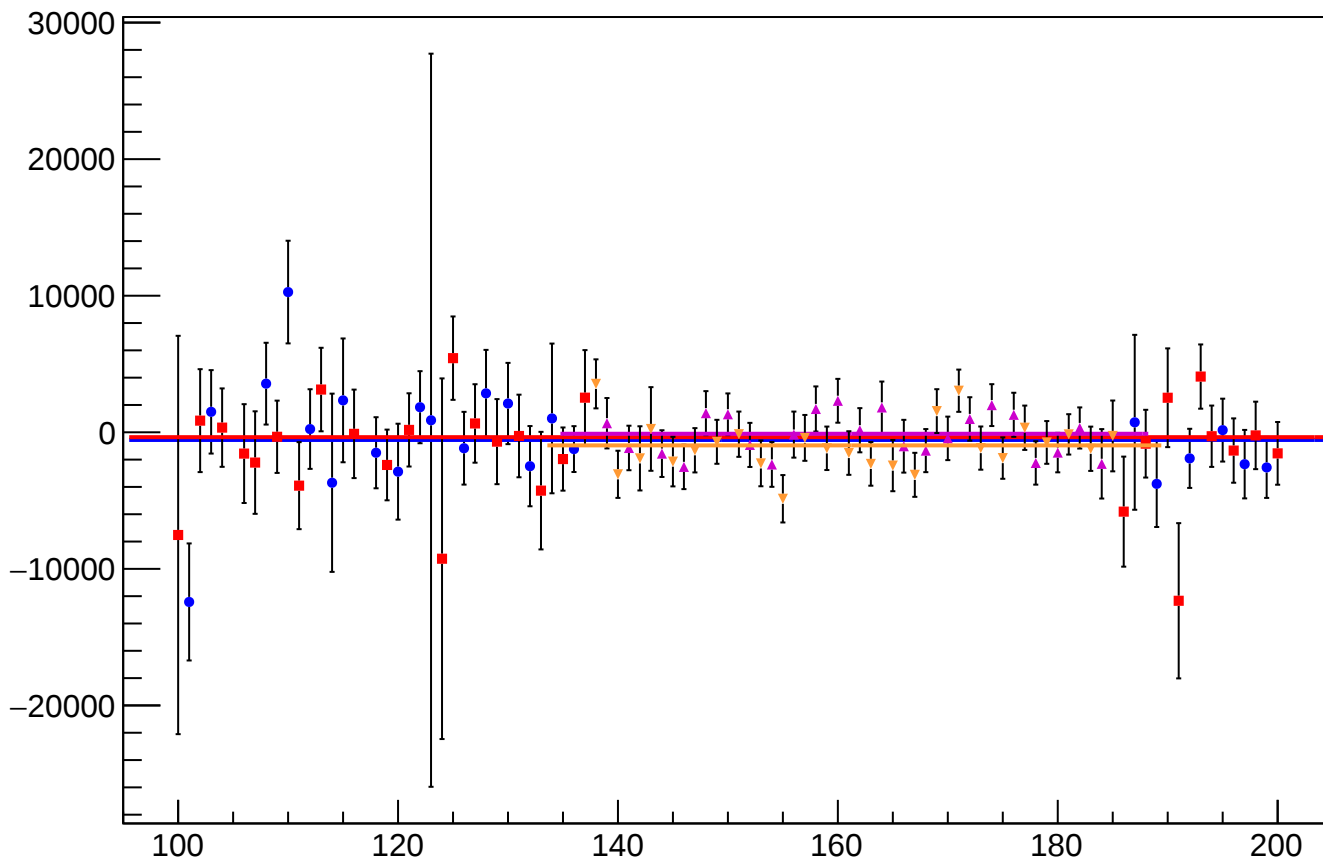
Right: 1683.490+/-0.383 χ^2/NDF : 103973.0/14

In: 1657.896+/-0.593 χ^2/NDF :21008.4/5

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 1683.490+/-0.383 χ^2/NDF : 103973.0/14

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -561.234+/-614.193 χ^2/NDF : 26.0/22

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -357.129+/-568.862 χ^2/NDF : 21.1/27

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

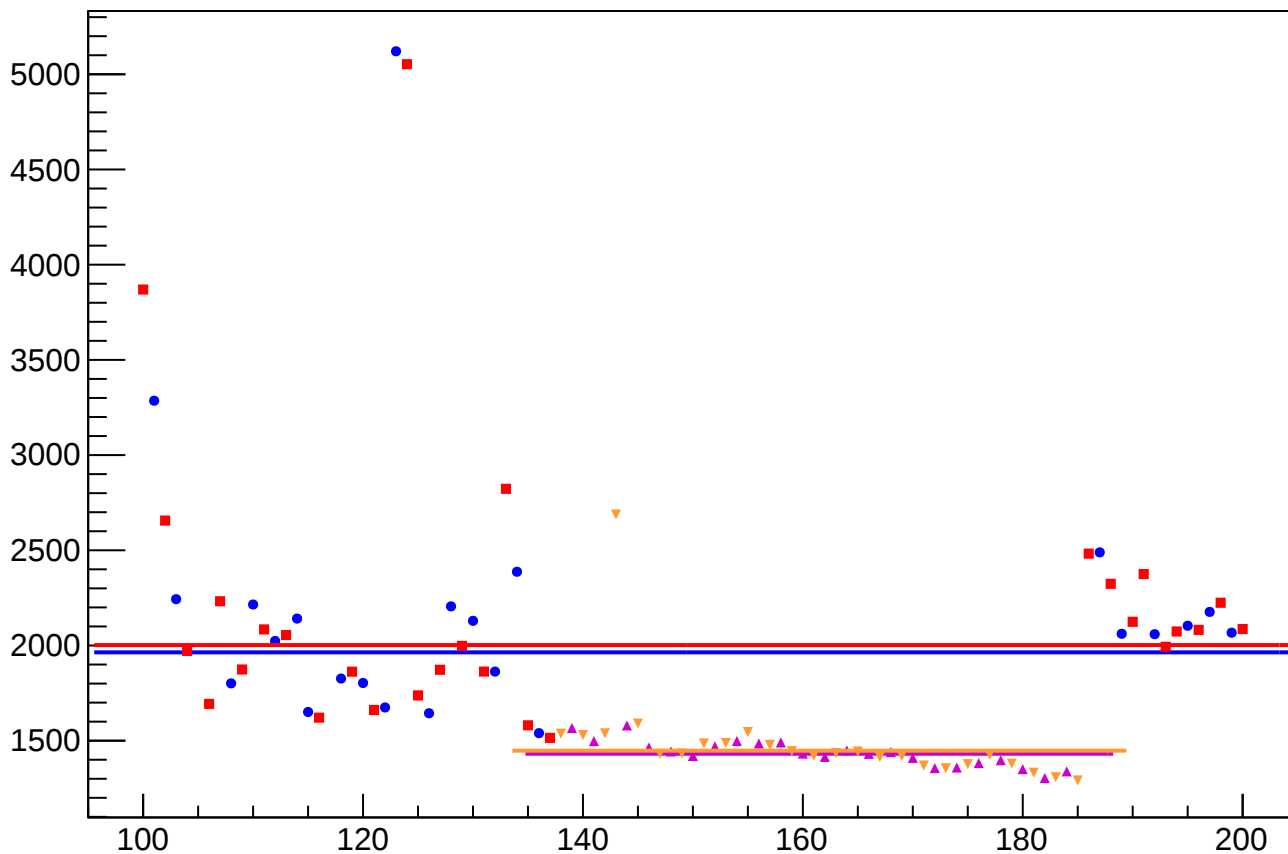
Right: -451.372+/-417.353 χ^2/NDF : 47.1/50

In: -215.694+/-299.907 χ^2/NDF : 45.8/45

Out: -800.496+/-291.527 χ^2/NDF : 50.4/52

All: -516.380+/-209.040 χ^2/NDF : 98.2/98

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1963.974 $\pm$ 0.434 χ^2 /NDF: 529073.8/22

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 2002.165 $\pm$ 0.402 χ^2 /NDF: 592429.3/27

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

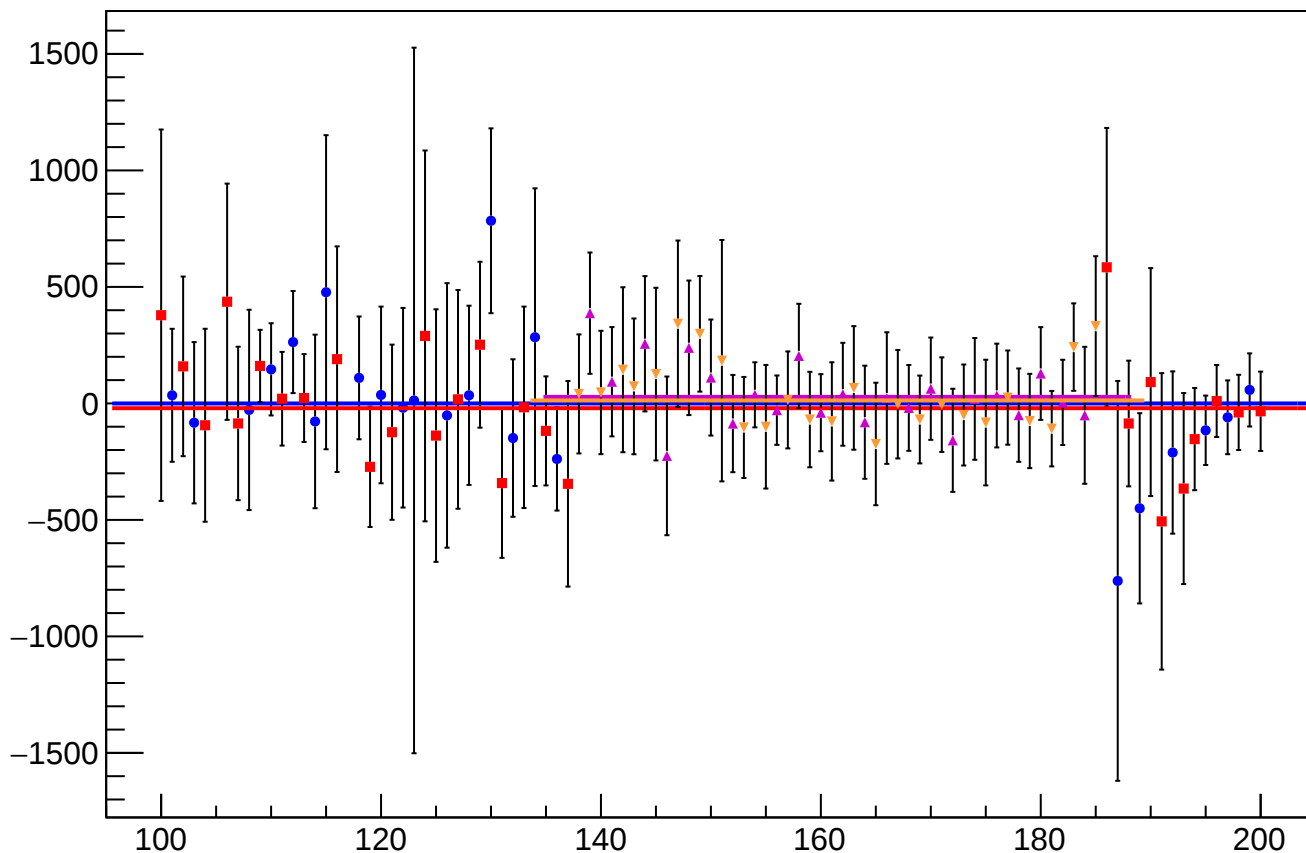
Right: 1984.531 $\pm$ 0.295 χ^2 /NDF: 1125665.6/50

In: 1558.425 $\pm$ 0.212 χ^2 /NDF: 1749190.7/45

Out: 1593.213 $\pm$ 0.206 χ^2 /NDF: 2413478.4/52

All: 1576.312 $\pm$ 0.148 χ^2 /NDF: 4176505.2/98

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -0.246 ± 57.928 $\chi^2/\text{NDF}: 11.5/22$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -20.550 ± 52.087 $\chi^2/\text{NDF}: 9.4/27$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

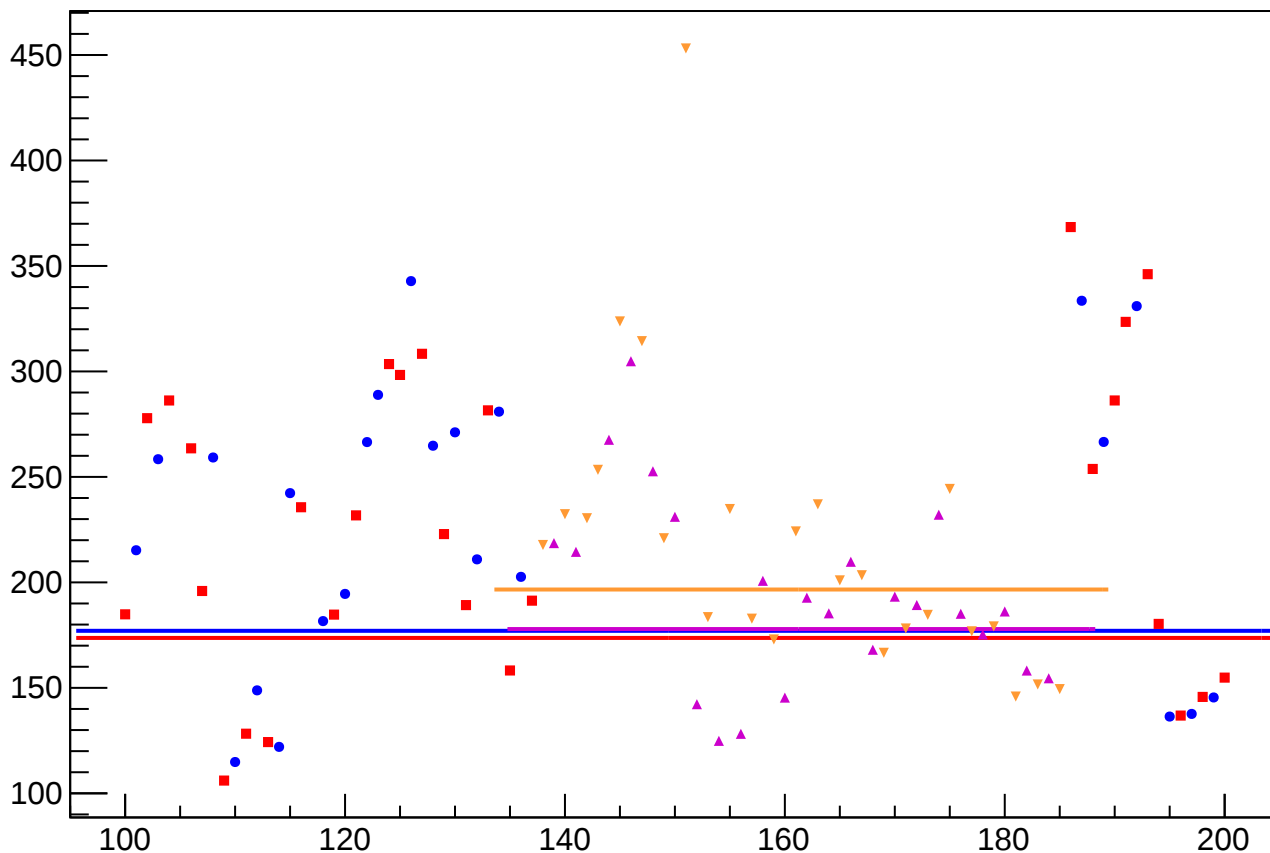
Right: -11.473 ± 38.732 $\chi^2/\text{NDF}: 21.0/50$

In: 17.461 ± 35.301 $\chi^2/\text{NDF}: 18.2/45$

Out: -2.437 ± 35.092 $\chi^2/\text{NDF}: 17.3/52$

All: 7.453 ± 24.887 $\chi^2/\text{NDF}: 35.6/98$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.042 $\pm$ 0.041 χ^2 /NDF: 2009542.1/22

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 173.668 $\pm$ 0.037 χ^2 /NDF: 2731862.2/27

Left In: 177.878 $\pm$ 0.031 χ^2 /NDF:1644086.7/22

Left: 186.646 $\pm$ 0.023 χ^2 /NDF: 3603390.3/47

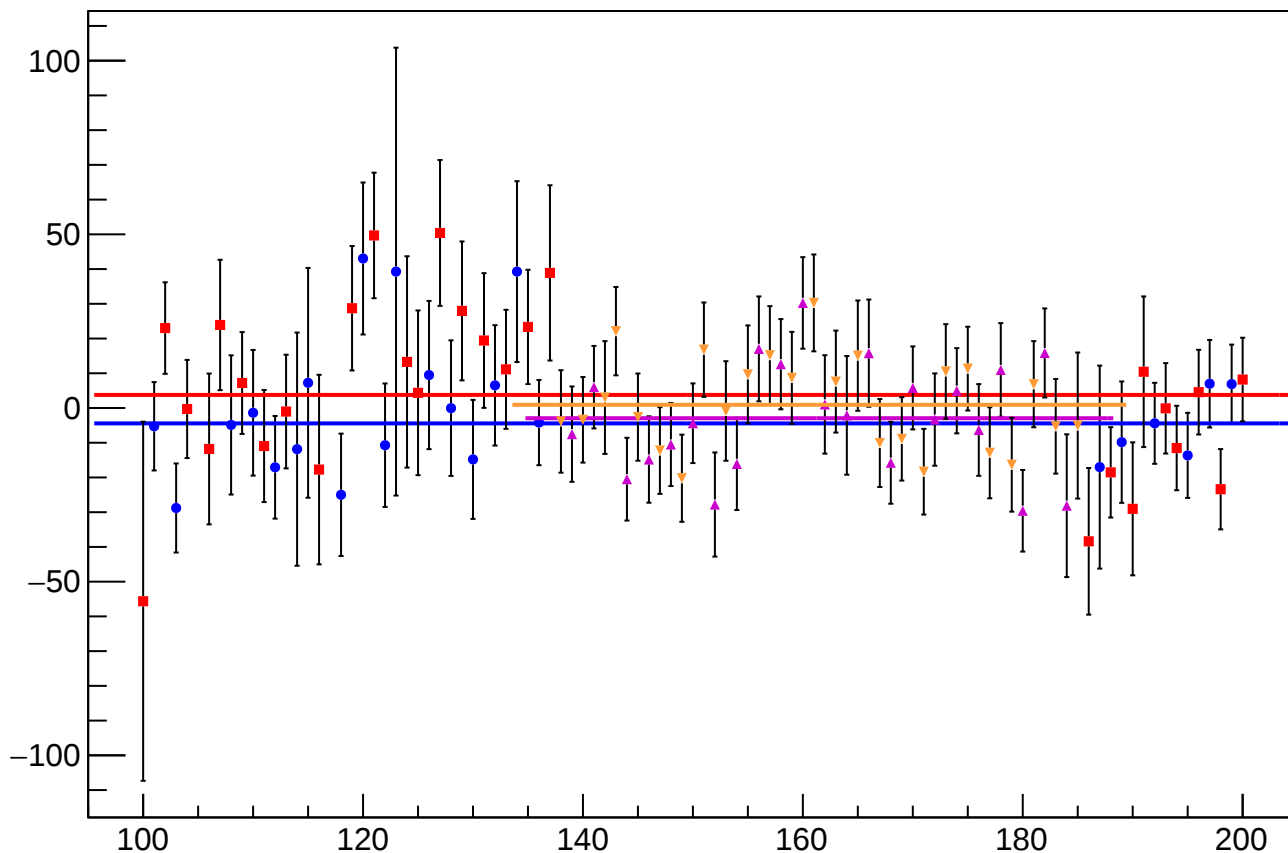
Right: 175.176 $\pm$ 0.027 χ^2 /NDF: 4745156.1/50

In: 177.567 $\pm$ 0.025 χ^2 /NDF:3653890.5/45

Out: 186.202 $\pm$ 0.025 χ^2 /NDF:4737440.7/52

All: 181.910 $\pm$ 0.018 χ^2 /NDF: 8451517.6/98

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.431 ± 3.428 $\chi^2/\text{NDF}: 17.9/22$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 3.768 ± 3.137 $\chi^2/\text{NDF}: 43.2/27$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

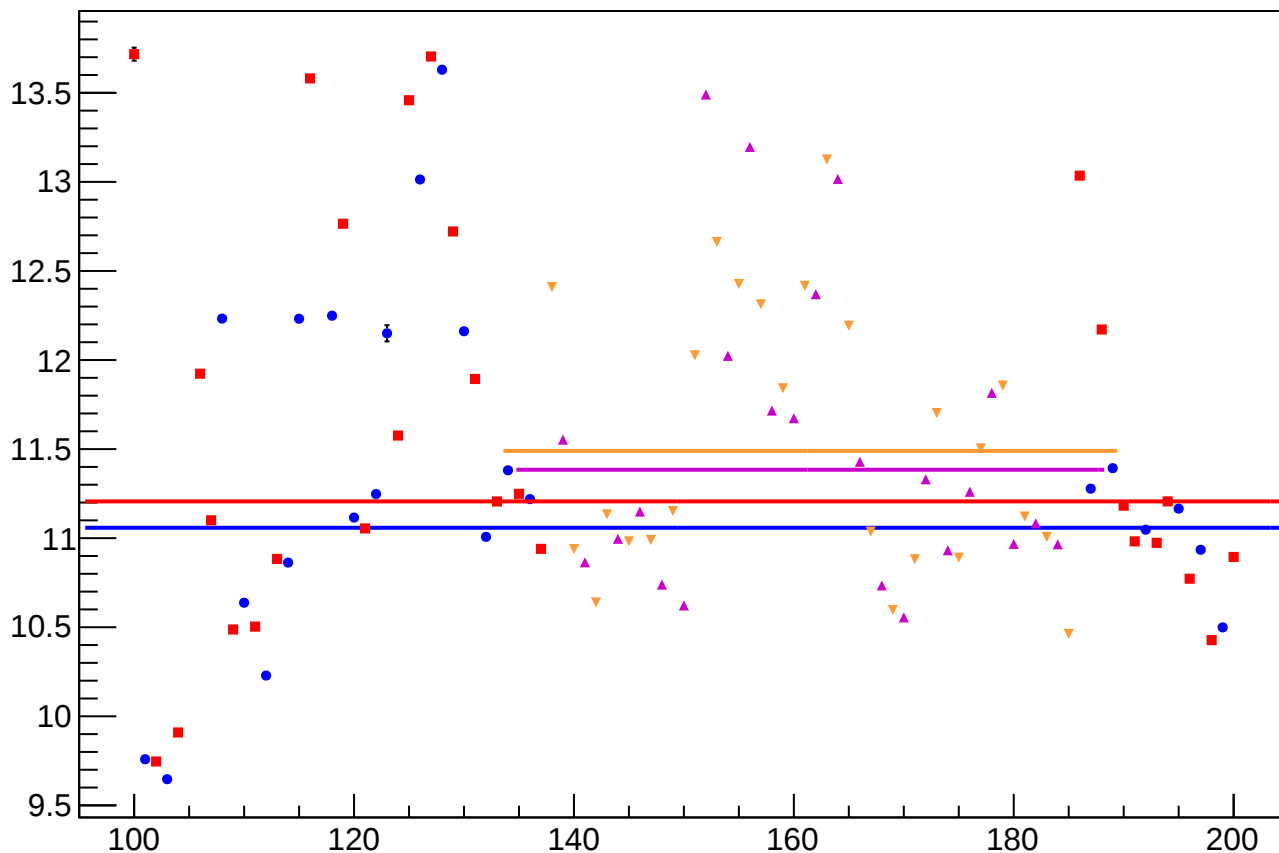
Right: 0.031 ± 2.314 $\chi^2/\text{NDF}: 64.2/50$

In: -3.523 ± 2.143 $\chi^2/\text{NDF}: 49.1/45$

Out: 2.130 ± 2.045 $\chi^2/\text{NDF}: 67.6/52$

All: -0.565 ± 1.479 $\chi^2/\text{NDF}: 120.3/98$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.058 $\pm$ 0.002 χ^2 /NDF: 138361.2/22

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 11.206 $\pm$ 0.002 χ^2 /NDF: 188850.6/27

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

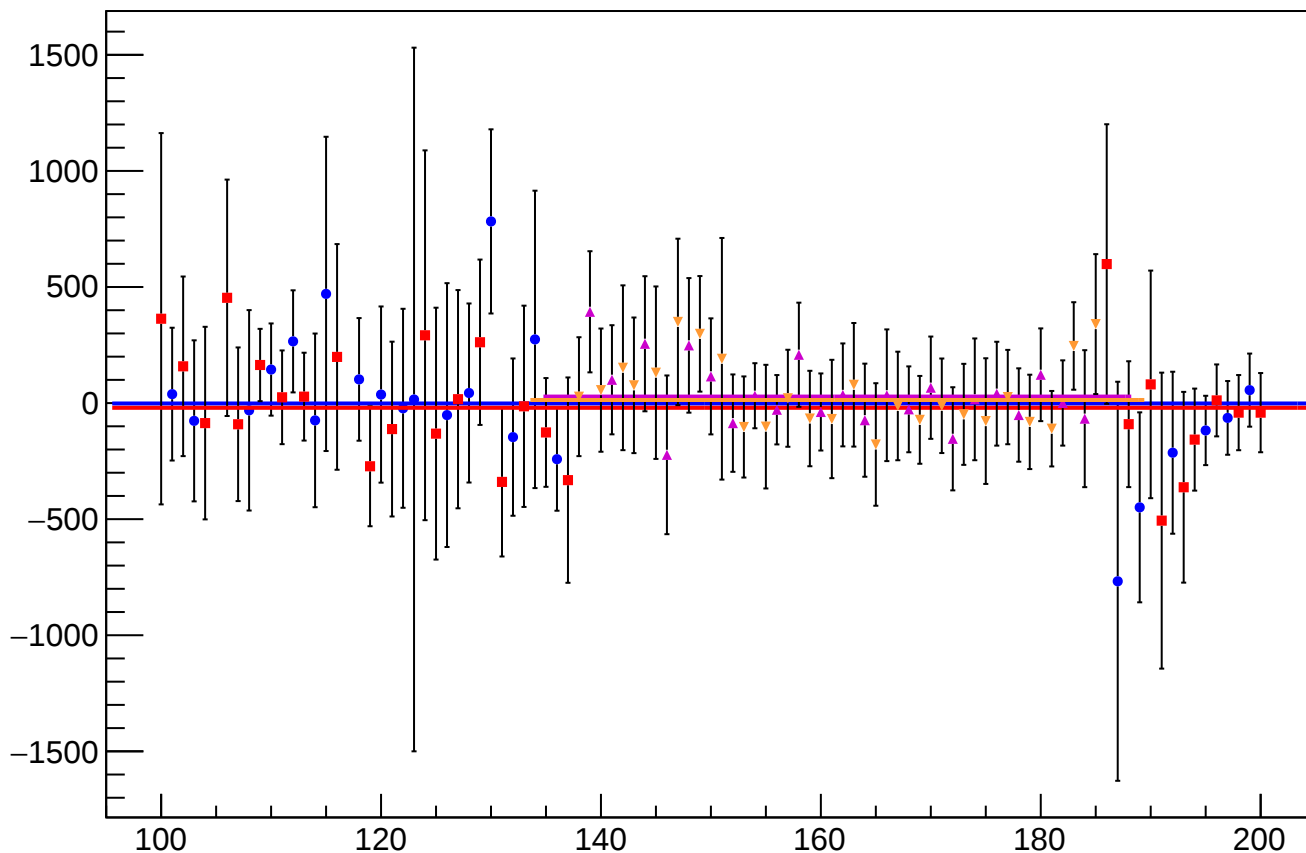
Right: 11.139 $\pm$ 0.002 χ^2 /NDF: 329241.8/50

In: 11.257 $\pm$ 0.002 χ^2 /NDF:299162.9/45

Out: 11.369 $\pm$ 0.001 χ^2 /NDF:330633.9/52

All: 11.316 $\pm$ 0.001 χ^2 /NDF: 632685.0/98

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -1.730 ± 58.078 $\chi^2/\text{NDF}: 11.5/22$

Left Out: 13.323 ± 47.662 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -20.321 ± 52.231 $\chi^2/\text{NDF}: 9.5/27$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

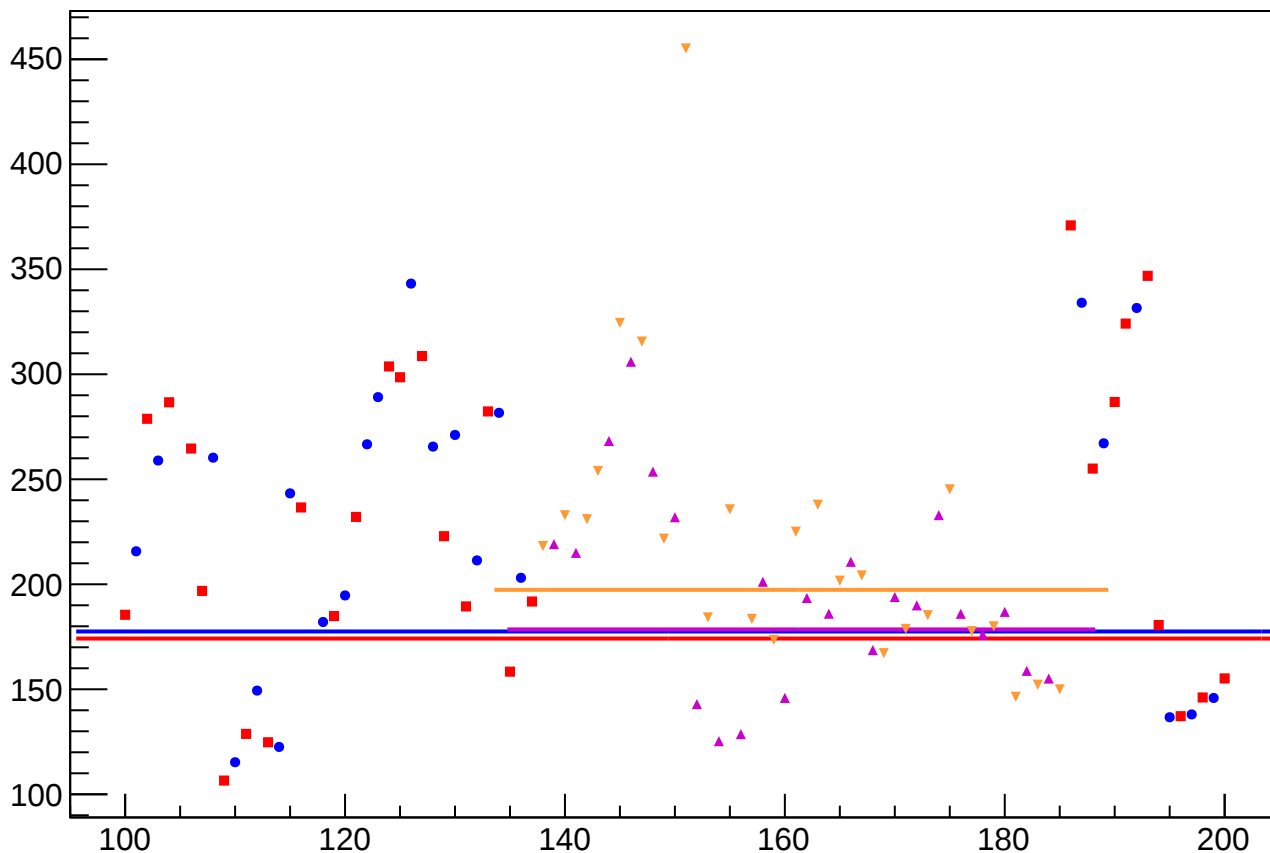
Right: -12.008 ± 38.836 $\chi^2/\text{NDF}: 21.1/50$

In: 16.977 ± 35.414 $\chi^2/\text{NDF}: 18.3/45$

Out: -1.964 ± 35.207 $\chi^2/\text{NDF}: 17.6/52$

All: 7.451 ± 24.968 $\chi^2/\text{NDF}: 36.1/98$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.525 $\pm$ 0.041 χ^2 /NDF: 2004094.0/22

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 174.165 $\pm$ 0.037 χ^2 /NDF: 2727711.3/27

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

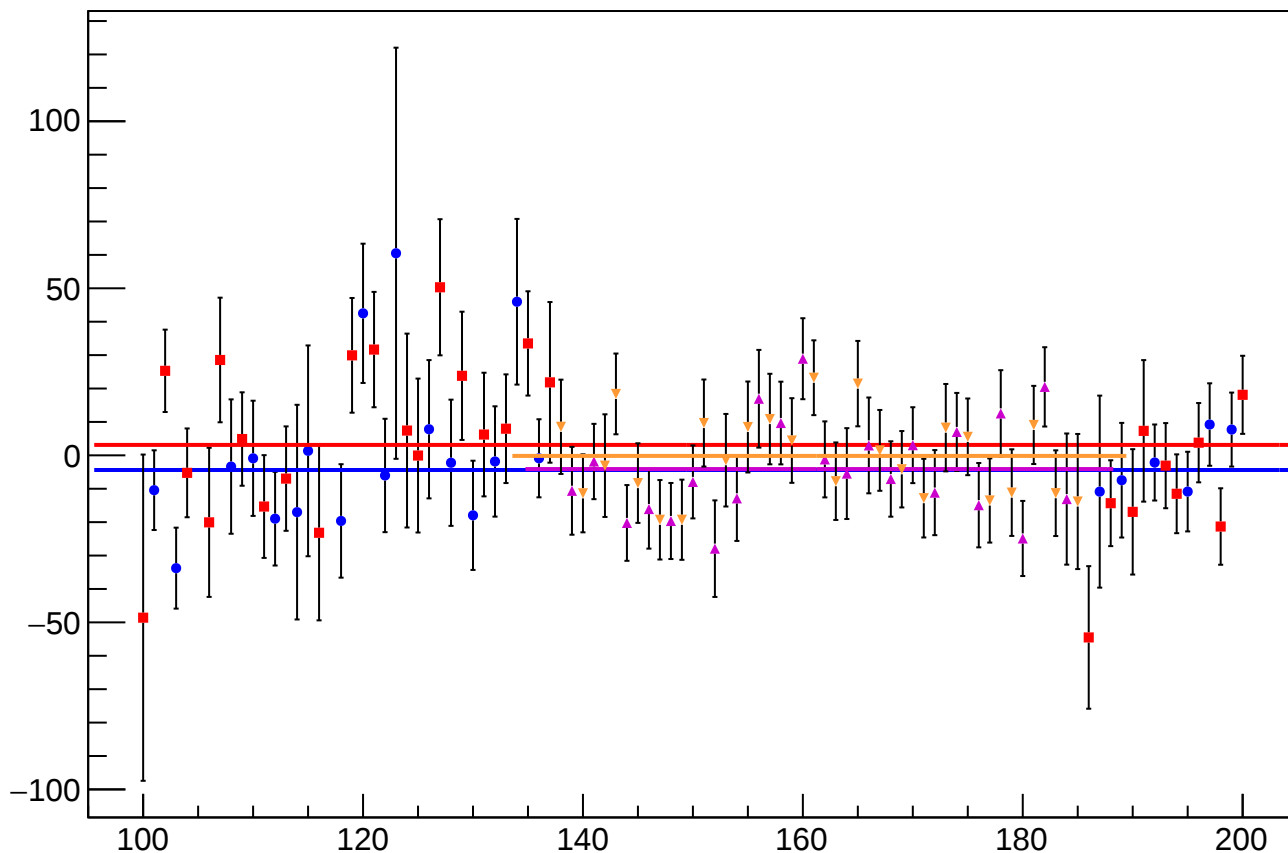
Right: 175.667 $\pm$ 0.027 χ^2 /NDF: 4735505.3/50

In: 178.145 $\pm$ 0.025 χ^2 /NDF:3646761.2/45

Out: 186.819 $\pm$ 0.025 χ^2 /NDF:4733657.7/52

All: 182.507 $\pm$ 0.018 χ^2 /NDF: 8440758.4/98

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.388 ± 3.300 $\chi^2/\text{NDF}: 22.5/22$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 3.120 ± 3.034 $\chi^2/\text{NDF}: 45.1/27$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

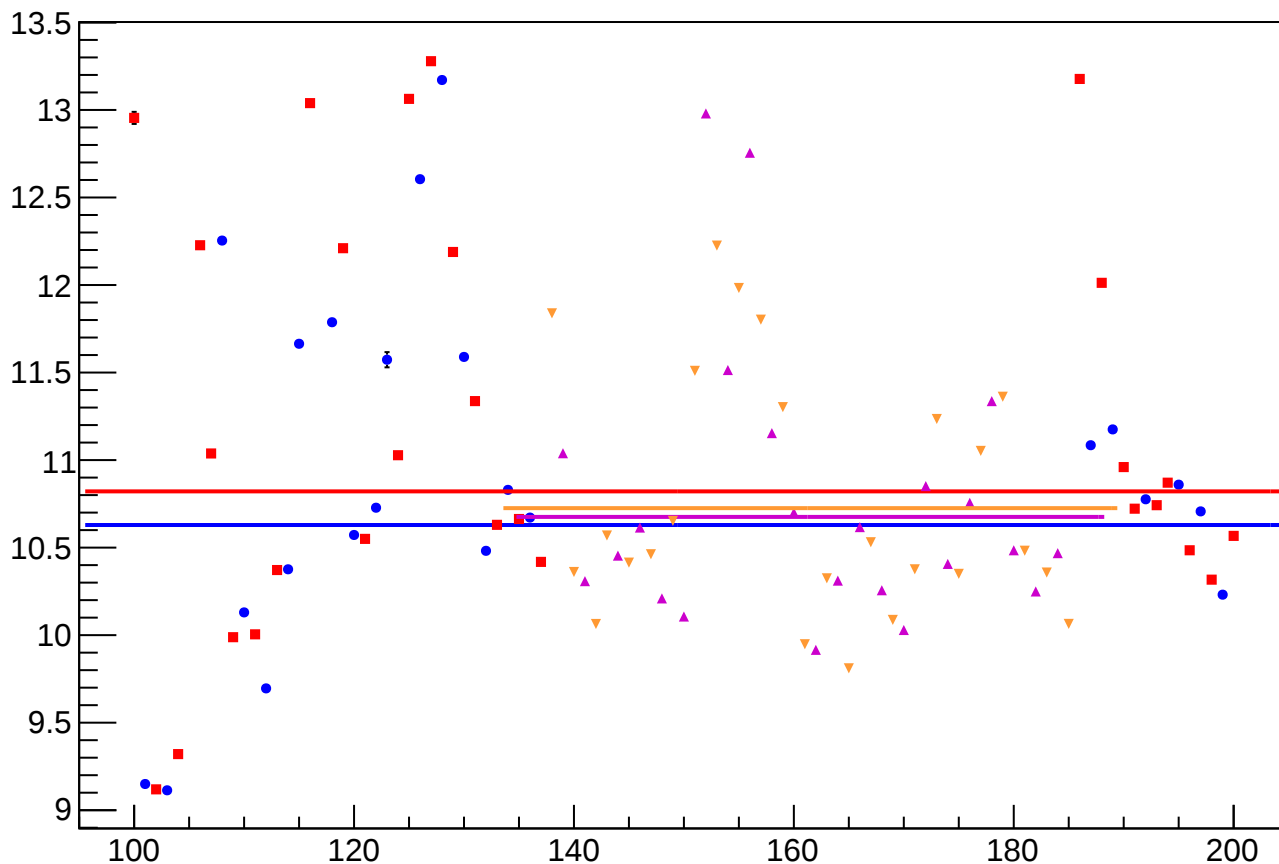
Right: -0.320 ± 2.234 $\chi^2/\text{NDF}: 70.5/50$

In: -4.213 ± 2.031 $\chi^2/\text{NDF}: 54.1/45$

Out: 1.173 ± 1.939 $\chi^2/\text{NDF}: 70.2/52$

All: -1.395 ± 1.402 $\chi^2/\text{NDF}: 127.9/98$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.629 ± 0.002 $\chi^2/\text{NDF}: 165699.6/22$

Left Out: 10.725 ± 0.002 $\chi^2/\text{NDF}: 132170.8/24$

Right Out: 10.821 ± 0.002 $\chi^2/\text{NDF}: 227081.5/27$

Left In: 10.675 ± 0.002 $\chi^2/\text{NDF}: 145938.2/22$

Left: 10.701 ± 0.001 $\chi^2/\text{NDF}: 278494.3/47$

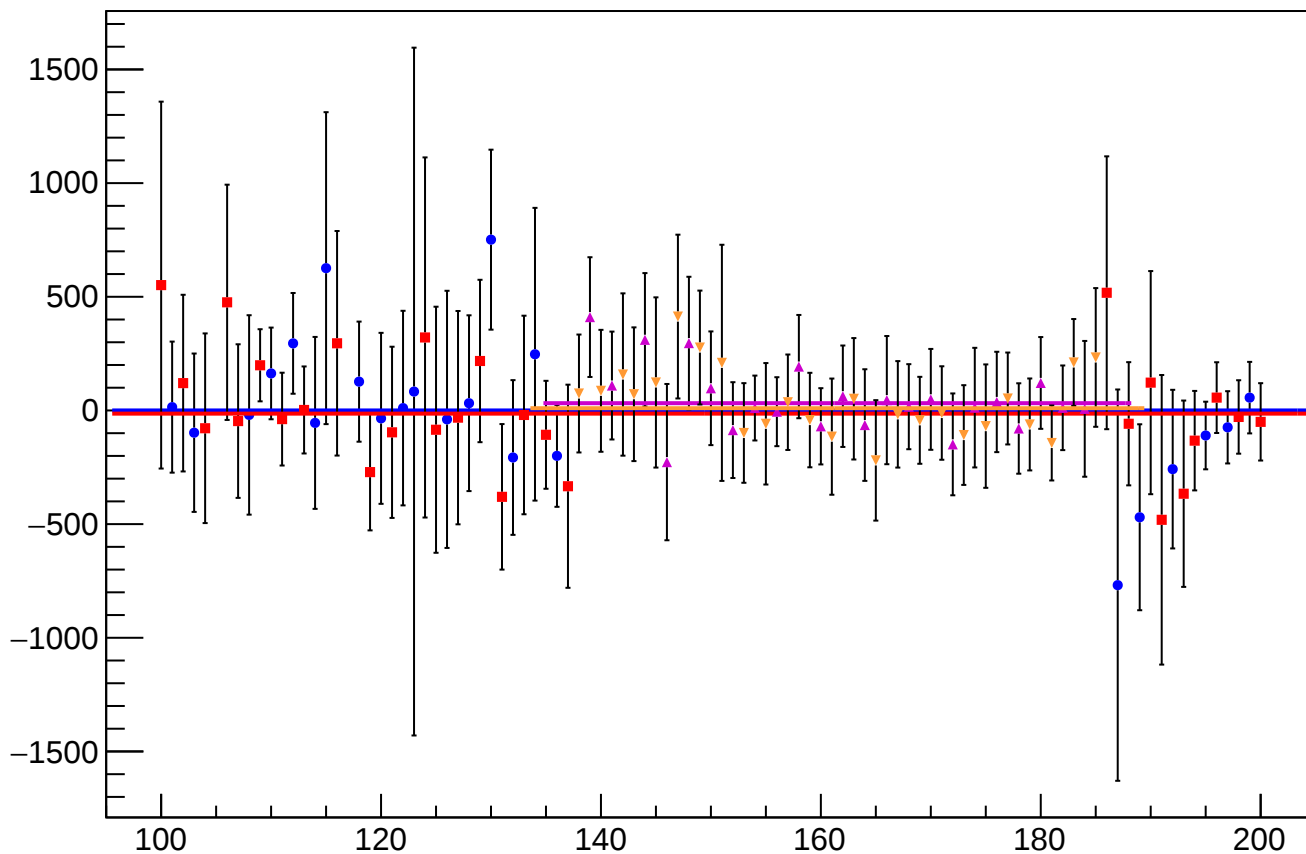
Right: 10.733 ± 0.002 $\chi^2/\text{NDF}: 396453.8/50$

In: 10.658 ± 0.001 $\chi^2/\text{NDF}: 311882.2/45$

Out: 10.765 ± 0.001 $\chi^2/\text{NDF}: 360431.6/52$

All: 10.714 ± 0.001 $\chi^2/\text{NDF}: 675200.5/98$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -0.009 ± 58.245 χ^2/NDF : 12.1/22

Left Out: 9.801 ± 47.979 χ^2/NDF : 7.5/24

Right Out: -14.011 ± 52.487 χ^2/NDF : 10.1/27

Left In: 31.989 ± 45.038 χ^2/NDF : 7.2/22

Left: 21.596 ± 32.837 χ^2/NDF : 14.8/47

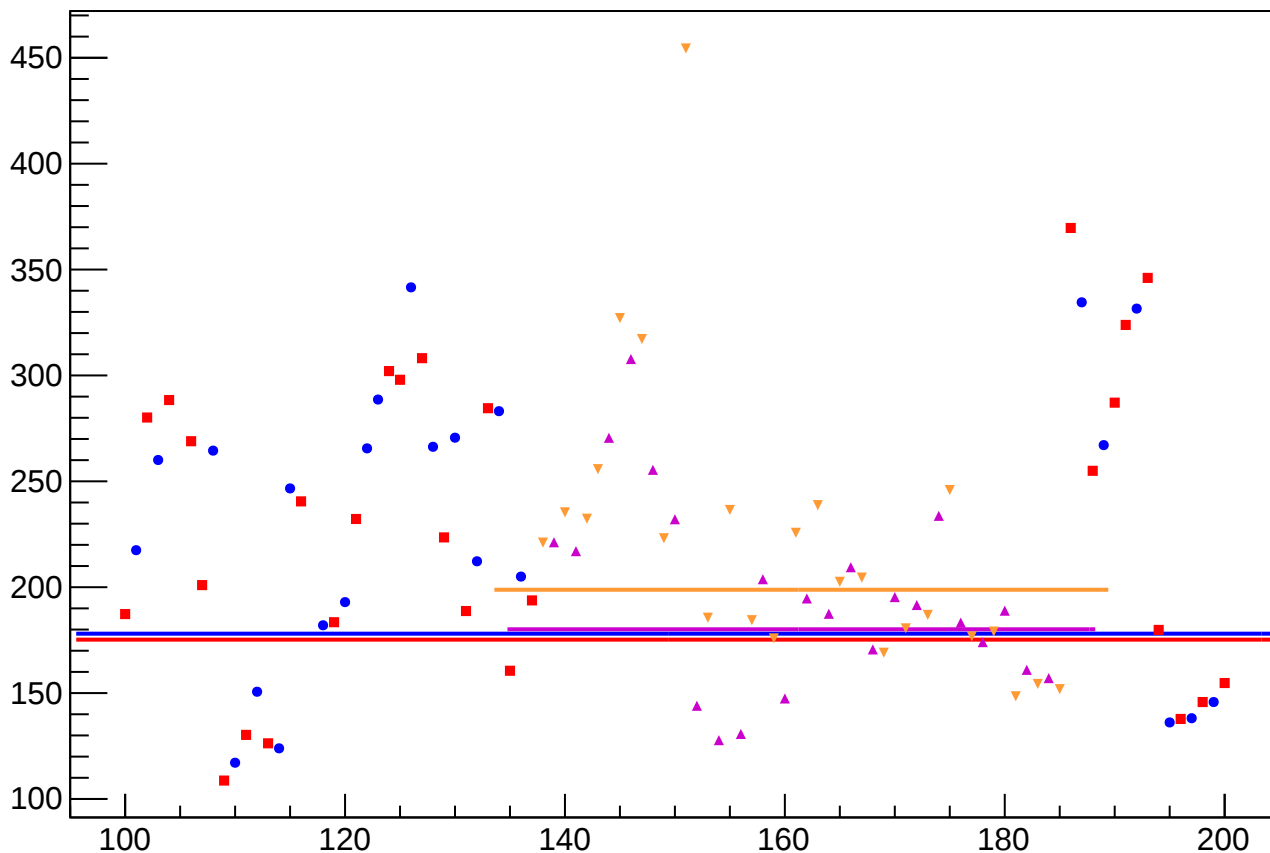
Right: -7.736 ± 38.991 χ^2/NDF : 22.2/50

In: 20.015 ± 35.629 χ^2/NDF : 19.5/45

Out: -1.038 ± 35.413 χ^2/NDF : 17.8/52

All: 9.425 ± 25.117 χ^2/NDF : 37.4/98

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 178.057 $\pm$ 0.041 χ^2 /NDF: 1998684.1/22

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 175.237 $\pm$ 0.037 χ^2 /NDF: 2679885.6/27

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

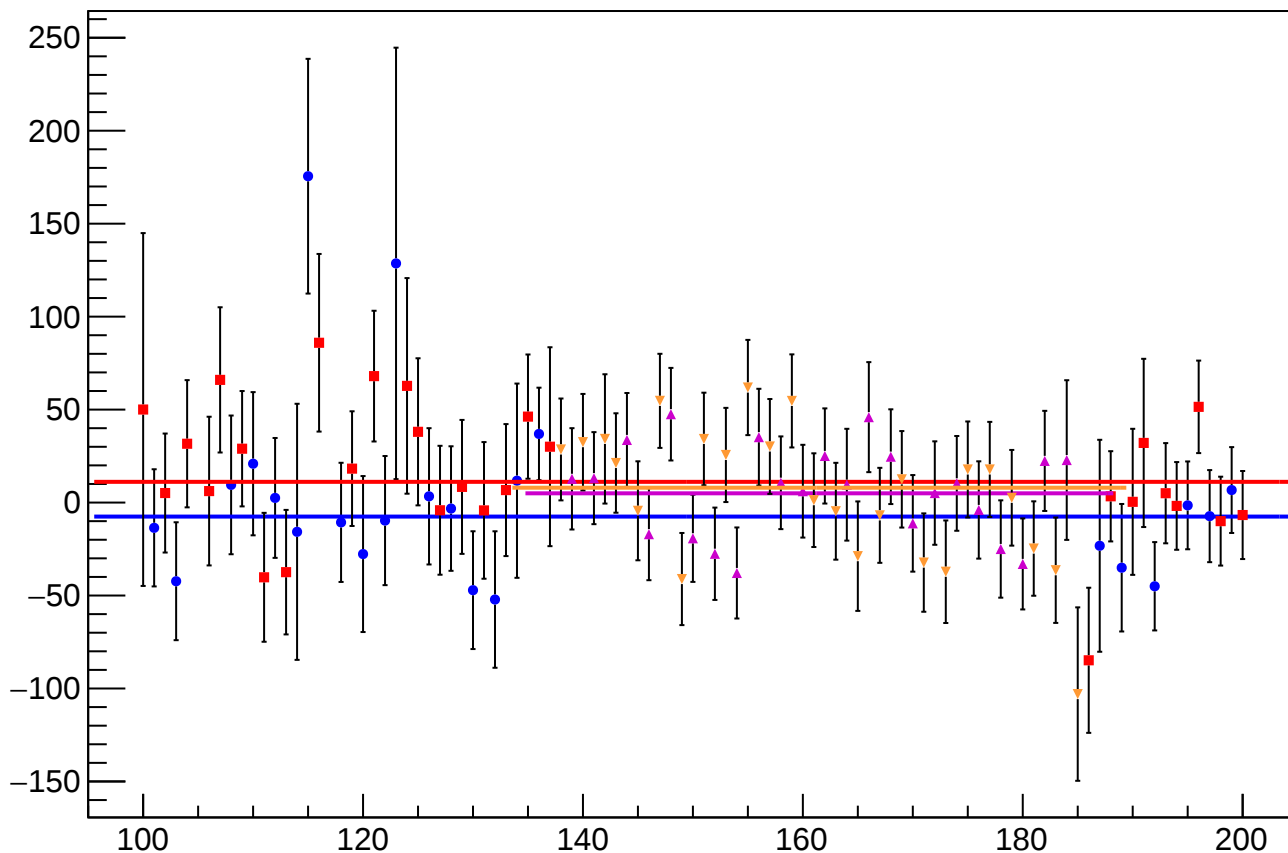
Right: 176.501 $\pm$ 0.028 χ^2 /NDF: 4681157.1/50

In: 179.350 $\pm$ 0.025 χ^2 /NDF:3594101.3/45

Out: 188.074 $\pm$ 0.025 χ^2 /NDF:4662595.2/52

All: 183.739 $\pm$ 0.018 χ^2 /NDF: 8317015.2/98

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -7.536 ± 6.925 $\chi^2/\text{NDF}: 22.3/22$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 11.148 ± 6.272 $\chi^2/\text{NDF}: 25.9/27$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

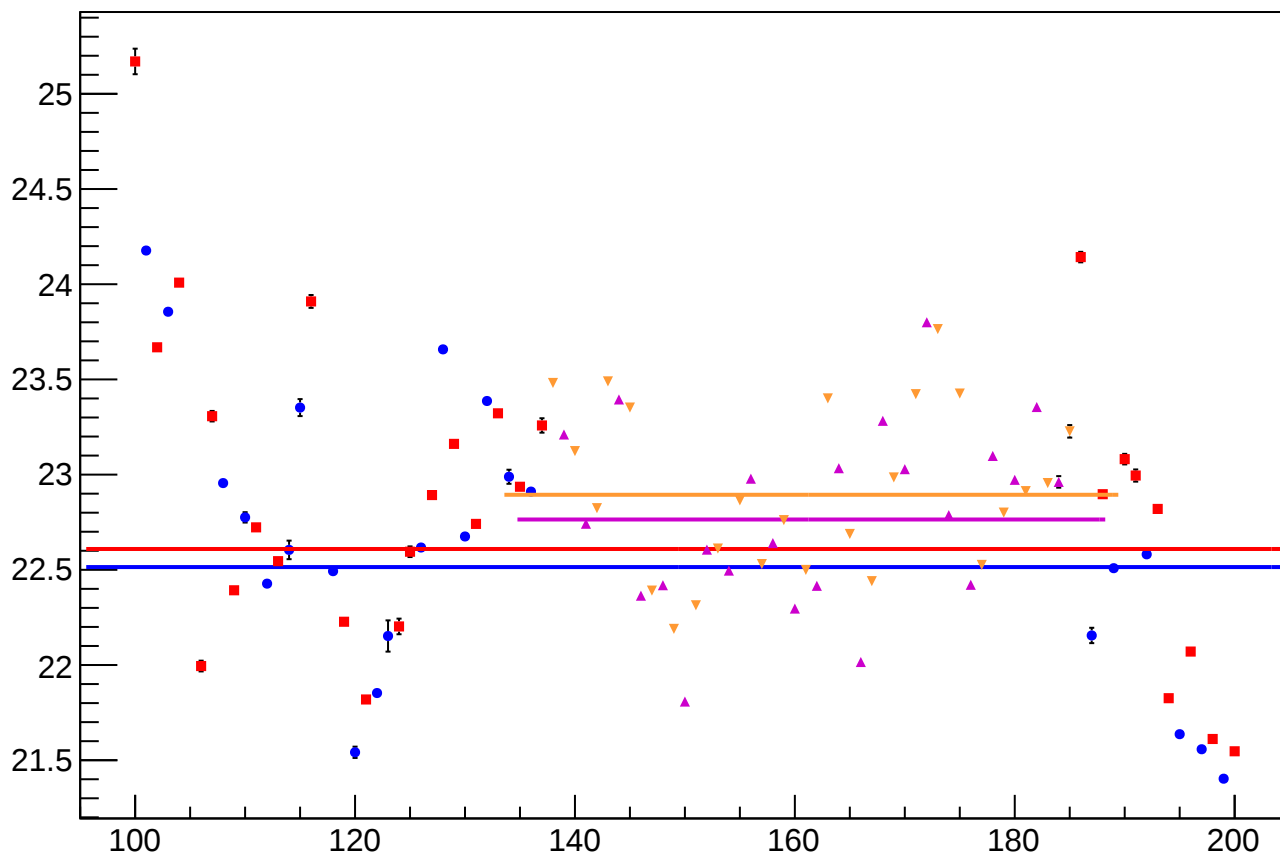
Right: 2.728 ± 4.649 $\chi^2/\text{NDF}: 52.2/50$

In: 0.195 ± 4.280 $\chi^2/\text{NDF}: 44.7/45$

Out: 9.313 ± 4.060 $\chi^2/\text{NDF}: 63.5/52$

All: 4.994 ± 2.946 $\chi^2/\text{NDF}: 110.7/98$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.514+/-0.005 χ^2/NDF : 26389.2/22

Left Out: 22.894+/-0.004 χ^2/NDF :13070.5/24

Right Out: 22.609+/-0.004 χ^2/NDF : 27629.3/27

Left In: 22.764+/-0.004 χ^2/NDF :14665.7/22

Left: 22.831+/-0.003 χ^2/NDF : 28317.3/47

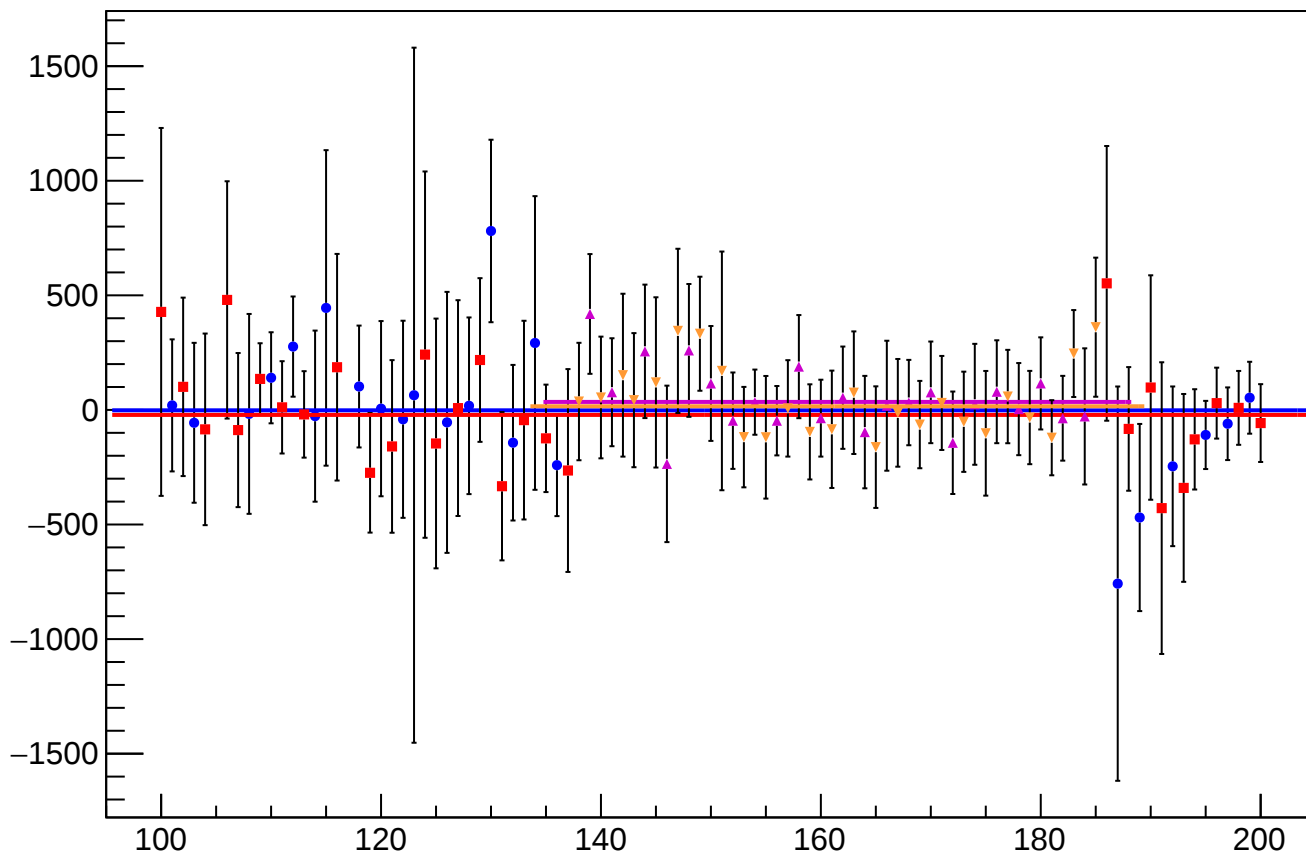
Right: 22.567+/-0.003 χ^2/NDF : 54225.1/50

In: 22.669+/-0.003 χ^2/NDF :42663.7/45

Out: 22.775+/-0.003 χ^2/NDF :43093.8/52

All: 22.725+/-0.002 χ^2/NDF : 86402.7/98

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -1.740 ± 58.065 $\chi^2/\text{NDF}: 11.5/22$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -21.812 ± 52.221 $\chi^2/\text{NDF}: 8.2/27$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

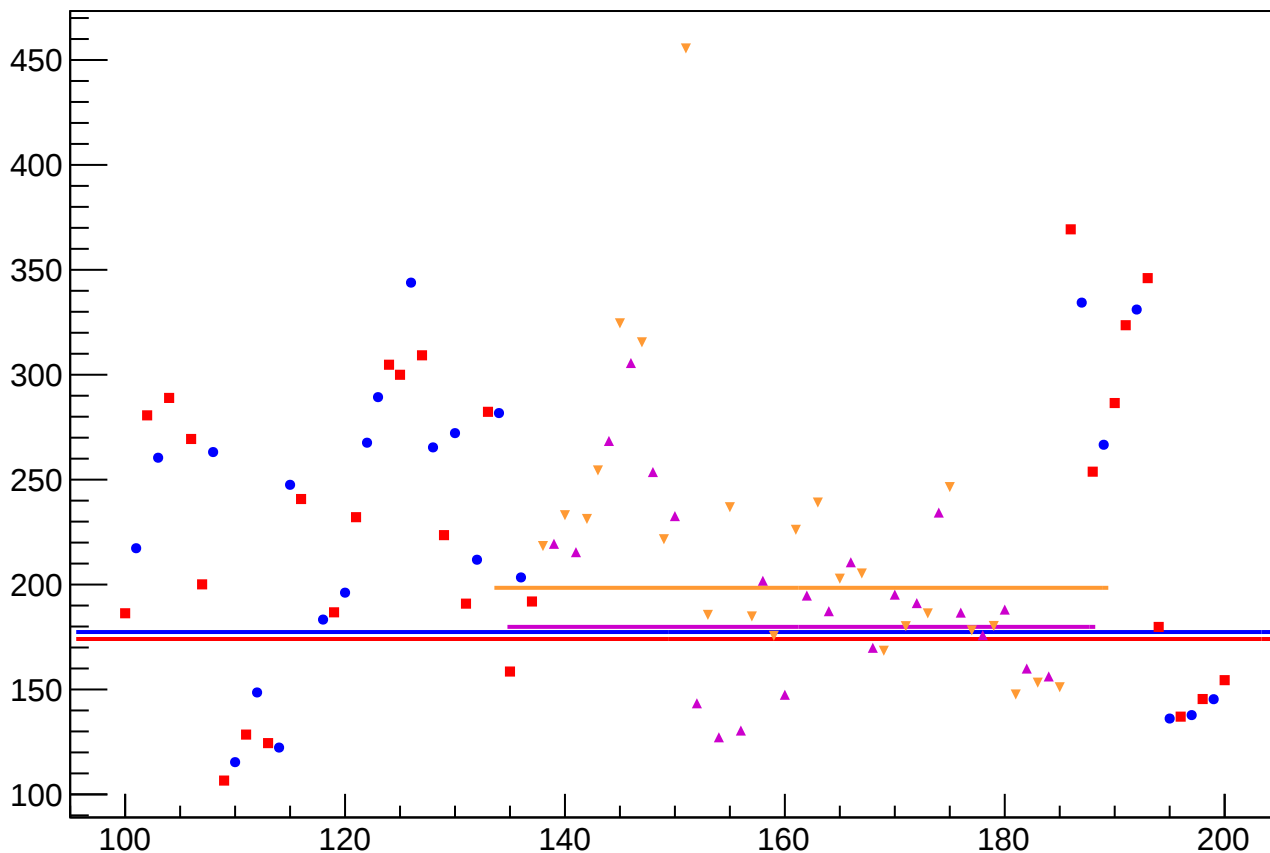
Right: -12.837 ± 38.828 $\chi^2/\text{NDF}: 19.8/50$

In: 21.174 ± 35.554 $\chi^2/\text{NDF}: 18.4/45$

Out: -1.329 ± 35.299 $\chi^2/\text{NDF}: 16.9/52$

All: 9.841 ± 25.050 $\chi^2/\text{NDF}: 35.5/98$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.377 +/- 0.041 χ^2/NDF : 2030769.4/22

Left Out: 198.450 +/- 0.034 χ^2/NDF : 1761433.9/24

Right Out: 174.057 +/- 0.037 χ^2/NDF : 2752796.7/27

Left In: 179.839 +/- 0.032 χ^2/NDF : 1588834.3/22

Left: 188.558 +/- 0.023 χ^2/NDF : 3510745.5/47

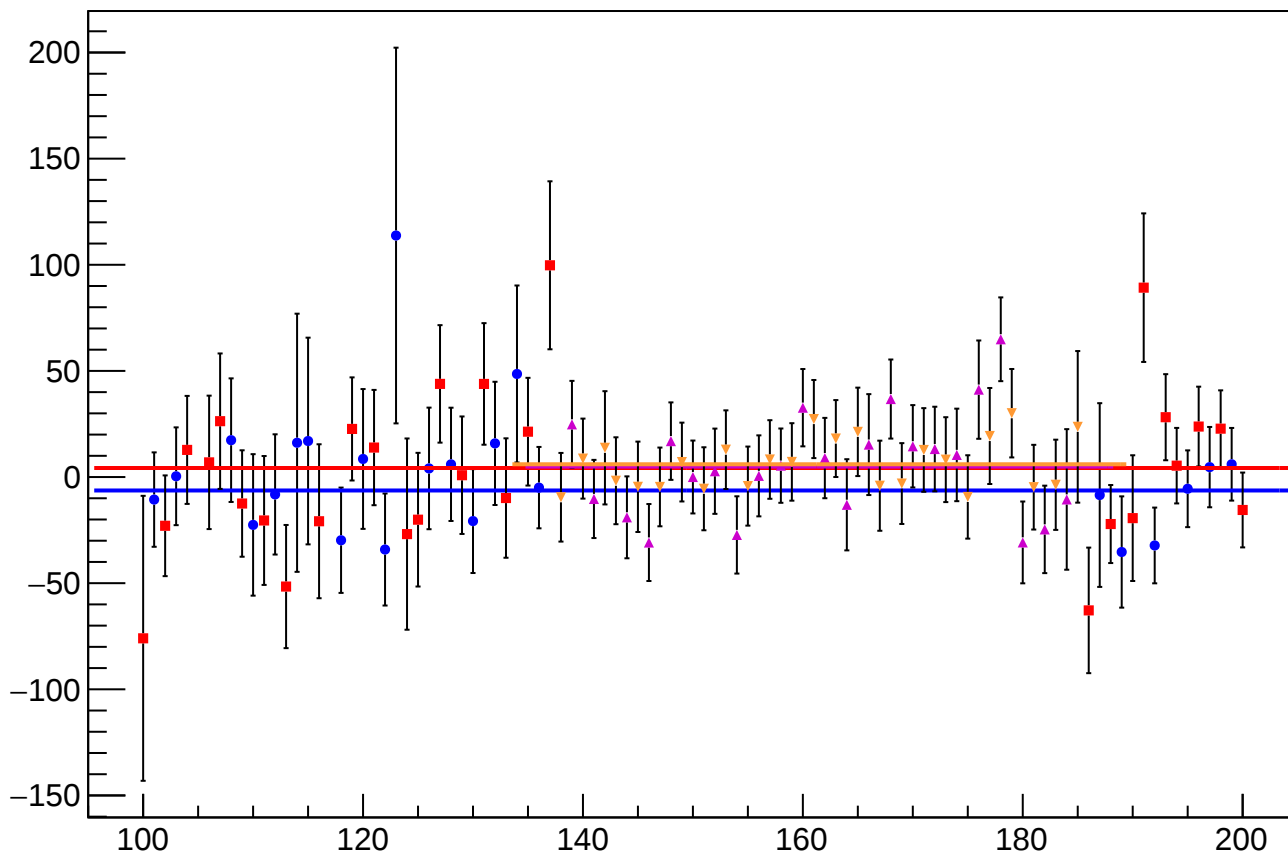
Right: 175.541 +/- 0.027 χ^2/NDF : 4787181.1/50

In: 178.916 +/- 0.025 χ^2/NDF : 3621851.6/45

Out: 187.304 +/- 0.025 χ^2/NDF : 4751232.8/52

All: 183.140 +/- 0.018 χ^2/NDF : 8429151.0/98

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.329 $\pm$ 5.329 χ^2 /NDF: 12.6/22

Left Out: 6.020 $\pm$ 4.017 χ^2 /NDF:8.1/24

Right Out: 4.259 $\pm$ 4.835 χ^2 /NDF: 39.4/27

Left In: 4.943 $\pm$ 4.108 χ^2 /NDF:34.8/22

Left: 5.494 $\pm$ 2.872 χ^2 /NDF: 43.0/47

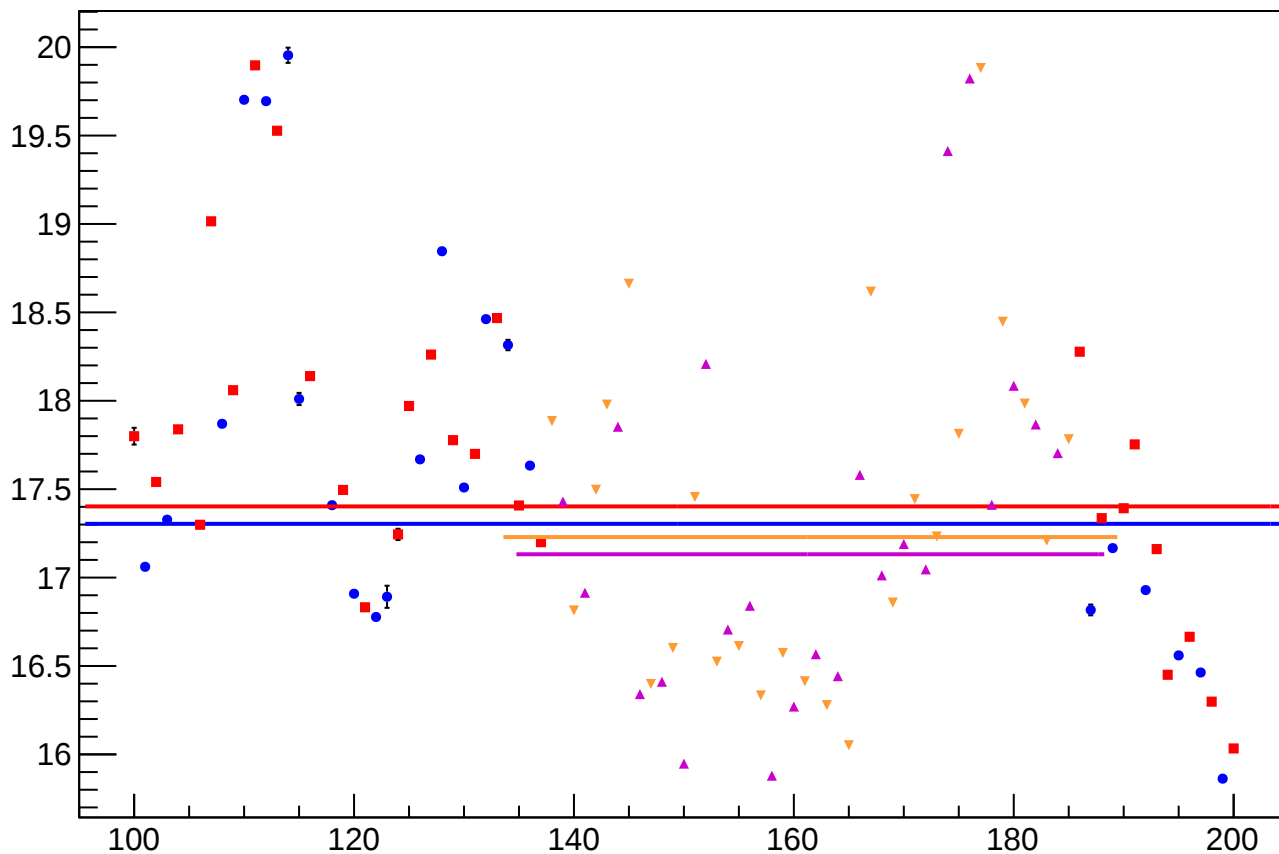
Right: -0.522 $\pm$ 3.581 χ^2 /NDF: 54.3/50

In: 0.742 $\pm$ 3.253 χ^2 /NDF:50.3/45

Out: 5.301 $\pm$ 3.090 χ^2 /NDF:47.7/52

All: 3.139 $\pm$ 2.240 χ^2 /NDF: 99.0/98

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.304 ± 0.004 χ^2/NDF : 65790.7/22

Left Out: 17.229 ± 0.003 χ^2/NDF : 98624.7/24

Right Out: 17.402 ± 0.003 χ^2/NDF : 69928.7/27

Left In: 17.132 ± 0.003 χ^2/NDF : 103997.3/22

Left: 17.182 ± 0.002 χ^2/NDF : 203195.4/47

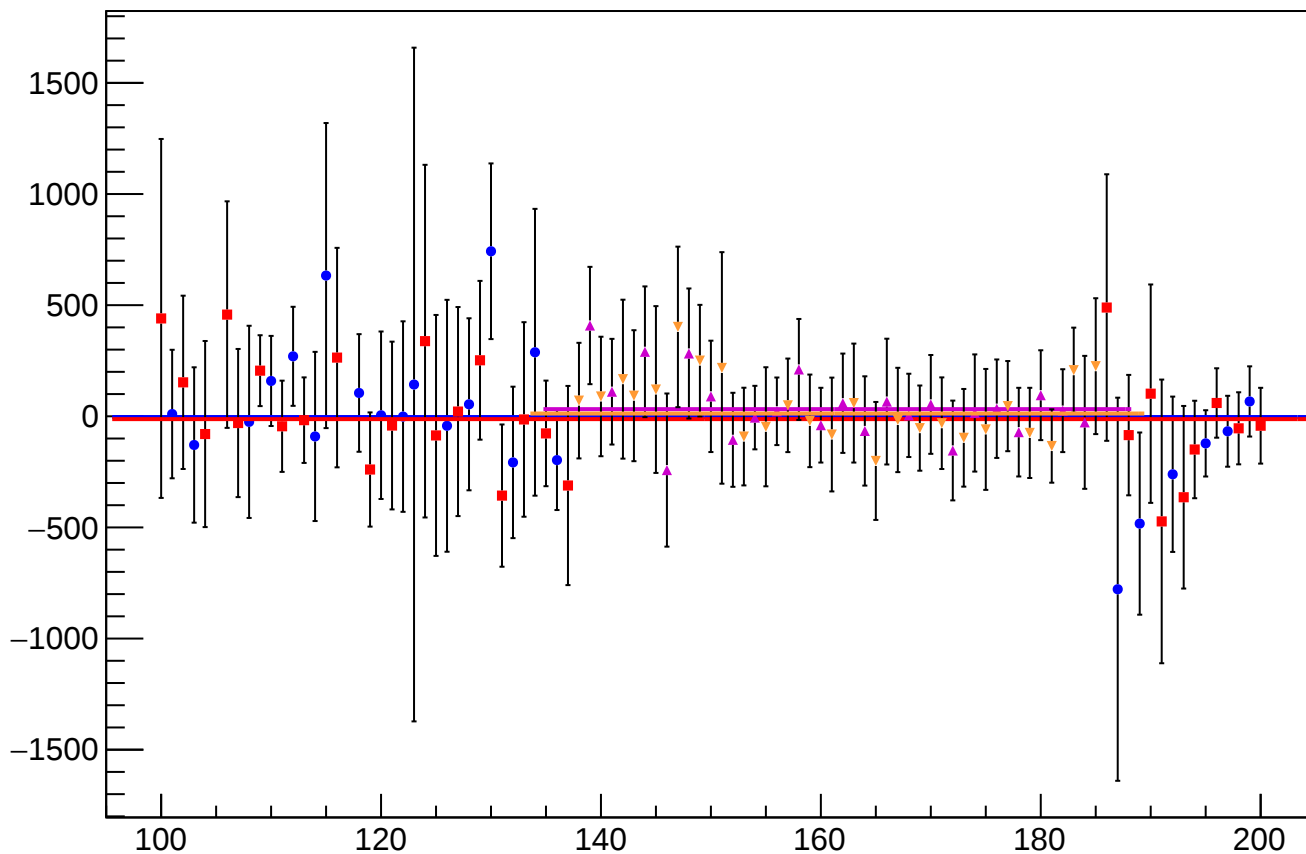
Right: 17.358 ± 0.003 χ^2/NDF : 136094.5/50

In: 17.196 ± 0.002 χ^2/NDF : 171096.2/45

Out: 17.300 ± 0.002 χ^2/NDF : 170074.1/52

All: 17.251 ± 0.002 χ^2/NDF : 342243.7/98

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -3.327 ± 58.413 $\chi^2/\text{NDF}: 12.0/22$

Left Out: 12.474 ± 48.086 $\chi^2/\text{NDF}: 6.8/24$

Right Out: -12.724 ± 52.612 $\chi^2/\text{NDF}: 9.6/27$

Left In: 32.159 ± 45.131 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.940 ± 32.908 $\chi^2/\text{NDF}: 13.9/47$

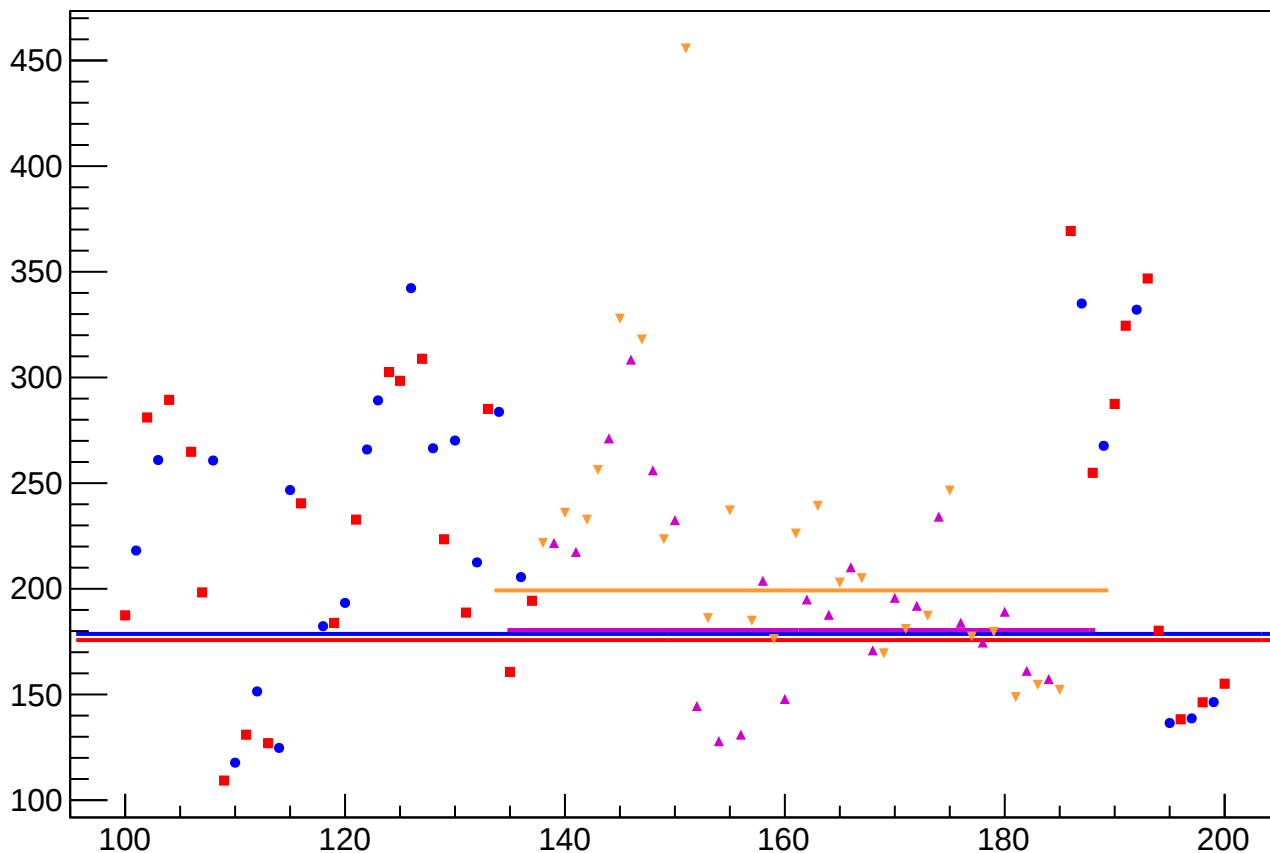
Right: -8.515 ± 39.093 $\chi^2/\text{NDF}: 21.6/50$

In: 18.894 ± 35.713 $\chi^2/\text{NDF}: 19.2/45$

Out: 1.005 ± 35.494 $\chi^2/\text{NDF}: 16.6/52$

All: 9.895 ± 25.175 $\chi^2/\text{NDF}: 35.8/98$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 178.655 $\pm$ 0.041 χ^2 /NDF: 1980475.1/22

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 175.742 $\pm$ 0.037 χ^2 /NDF: 2656041.8/27

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

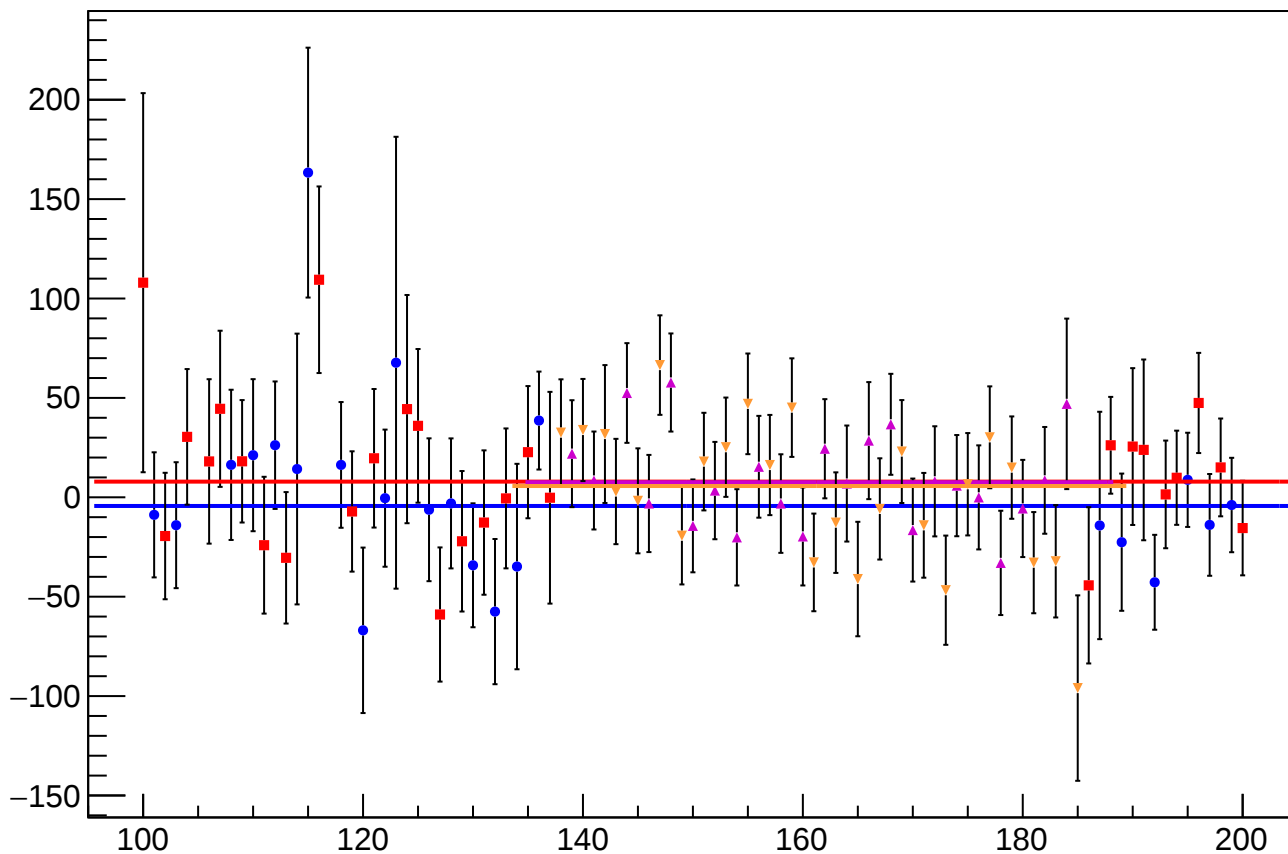
Right: 177.047 $\pm$ 0.028 χ^2 /NDF: 4639264.7/50

In: 179.807 $\pm$ 0.025 χ^2 /NDF:3575499.5/45

Out: 188.545 $\pm$ 0.025 χ^2 /NDF:4637542.6/52

All: 184.203 $\pm$ 0.018 χ^2 /NDF: 8273285.5/98

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.361 ± 6.930 χ^2/NDF : 21.8/22

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 7.884 ± 6.268 χ^2/NDF : 23.0/27

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

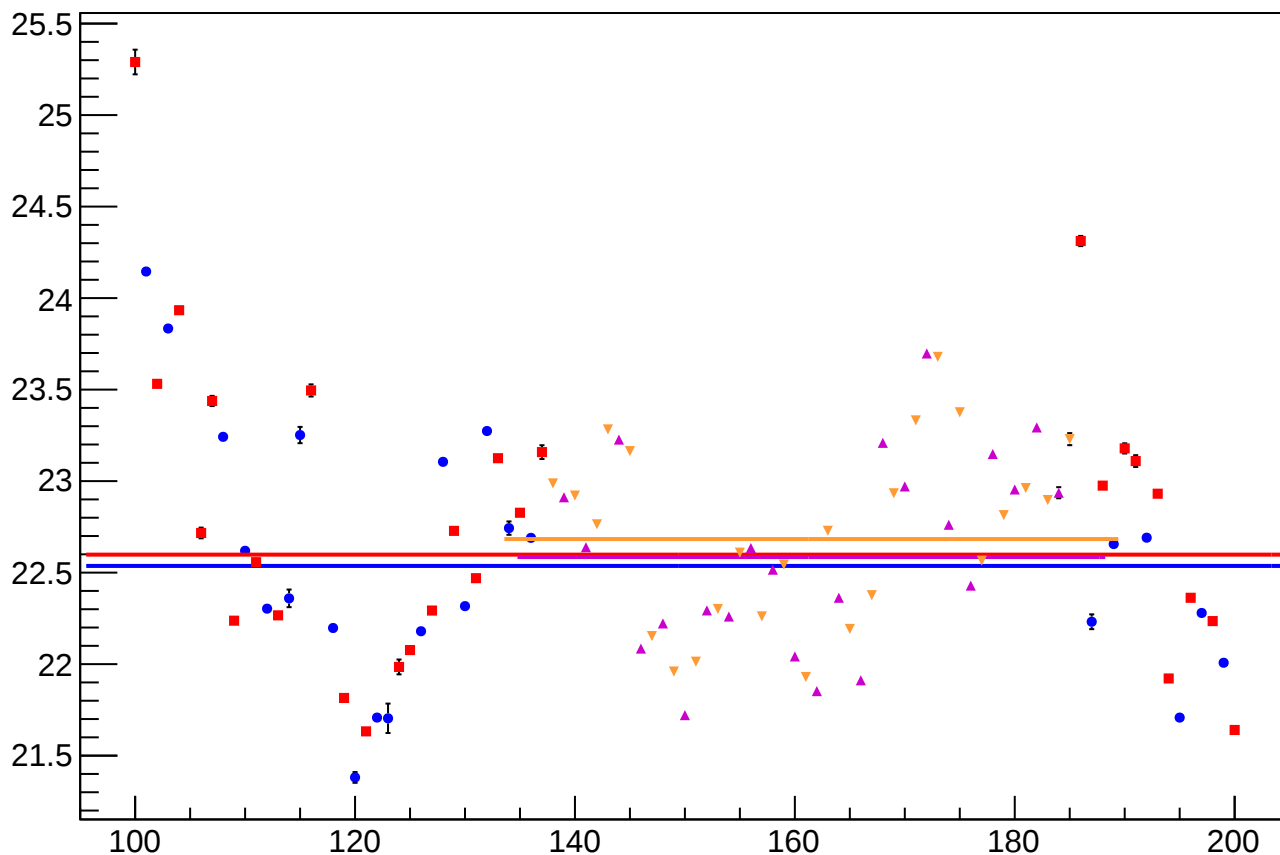
Right: 2.374 ± 4.649 χ^2/NDF : 46.5/50

In: 3.076 ± 4.260 χ^2/NDF : 42.0/45

Out: 6.590 ± 4.037 χ^2/NDF : 59.4/52

All: 4.928 ± 2.931 χ^2/NDF : 101.8/98

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.537+/-0.005 χ^2/NDF : 18331.1/22

Left Out: 22.683+/-0.004 χ^2/NDF : 16318.1/24

Right Out: 22.598+/-0.004 χ^2/NDF : 23727.0/27

Left In: 22.585+/-0.004 χ^2/NDF : 18087.5/22

Left: 22.635+/-0.003 χ^2/NDF : 34743.7/47

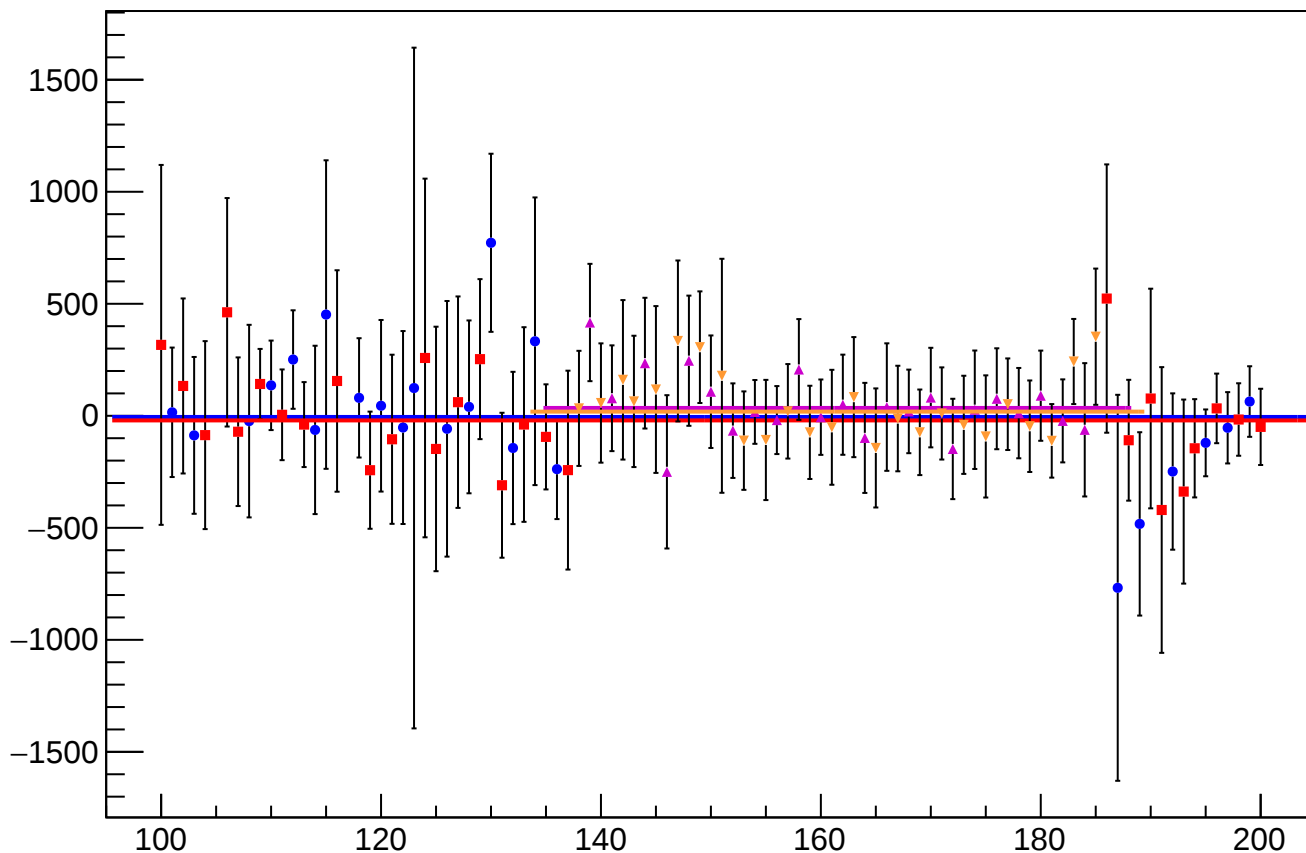
Right: 22.571+/-0.003 χ^2/NDF : 42145.3/50

In: 22.567+/-0.003 χ^2/NDF : 36479.9/45

Out: 22.648+/-0.003 χ^2/NDF : 40261.0/52

All: 22.610+/-0.002 χ^2/NDF : 77124.2/98

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -5.150 ± 58.235 $\chi^2/\text{NDF}: 11.4/22$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -20.592 ± 52.347 $\chi^2/\text{NDF}: 7.7/27$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

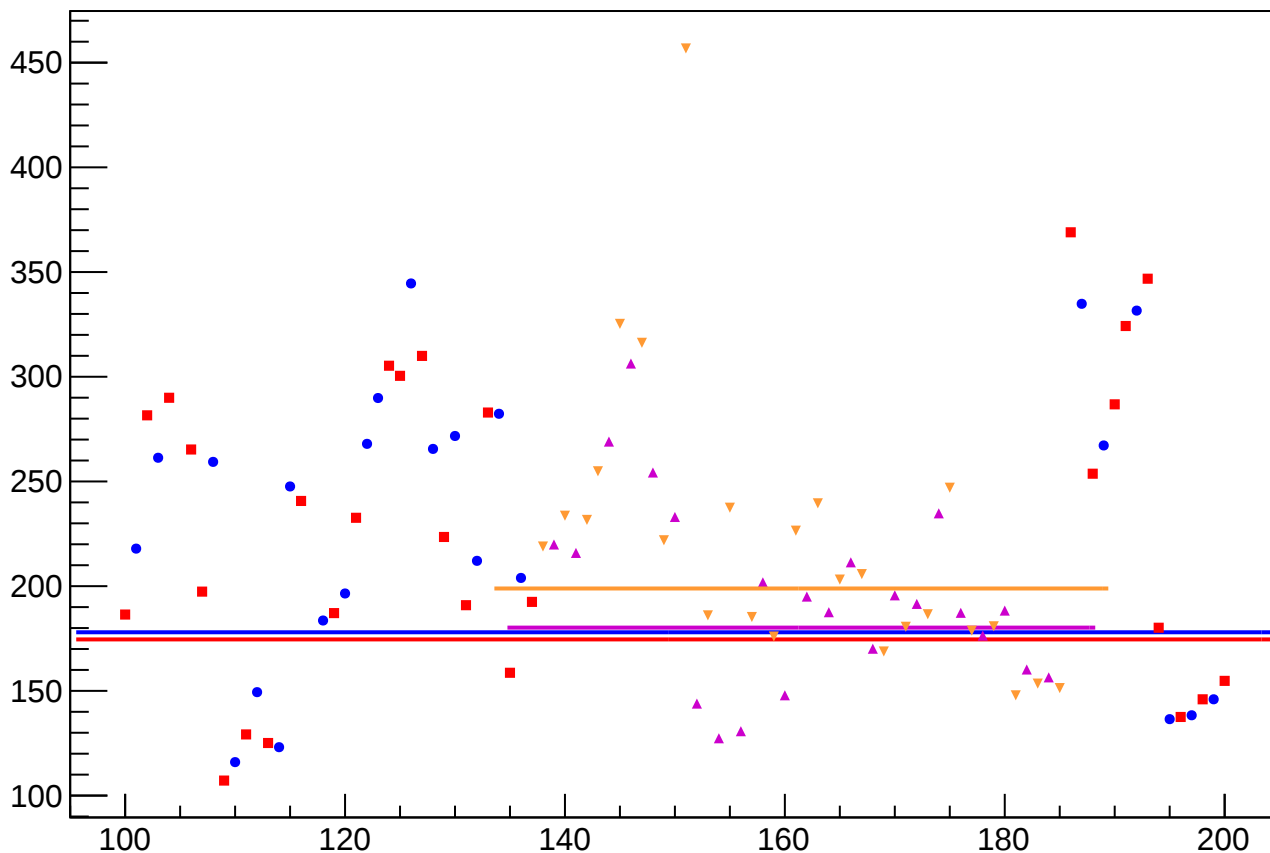
Right: -13.691 ± 38.931 $\chi^2/\text{NDF}: 19.1/50$

In: 19.992 ± 35.639 $\chi^2/\text{NDF}: 18.0/45$

Out: 0.714 ± 35.381 $\chi^2/\text{NDF}: 15.6/52$

All: 10.283 ± 25.109 $\chi^2/\text{NDF}: 33.7/98$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.983 $\pm$ 0.041 χ^2 /NDF: 2011927.1/22

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 174.572 $\pm$ 0.037 χ^2 /NDF: 2727950.3/27

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

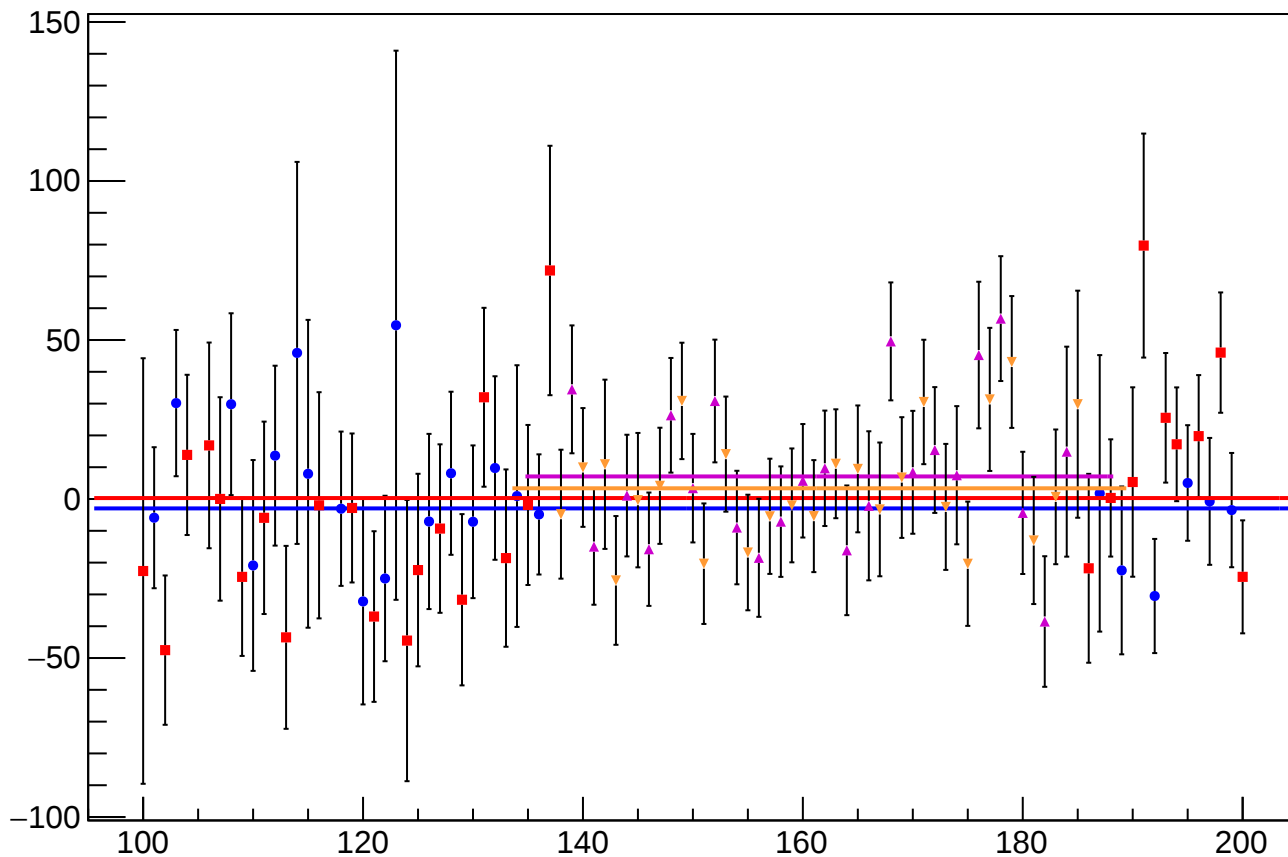
Right: 176.096 $\pm$ 0.028 χ^2 /NDF: 4743672.4/50

In: 179.374 $\pm$ 0.025 χ^2 /NDF:3602757.7/45

Out: 187.781 $\pm$ 0.025 χ^2 /NDF:4724865.6/52

All: 183.608 $\pm$ 0.018 χ^2 /NDF: 8383677.4/98

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.954 ± 5.334 χ^2/NDF : 10.3/22

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: 0.300 ± 4.829 χ^2/NDF : 35.2/27

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

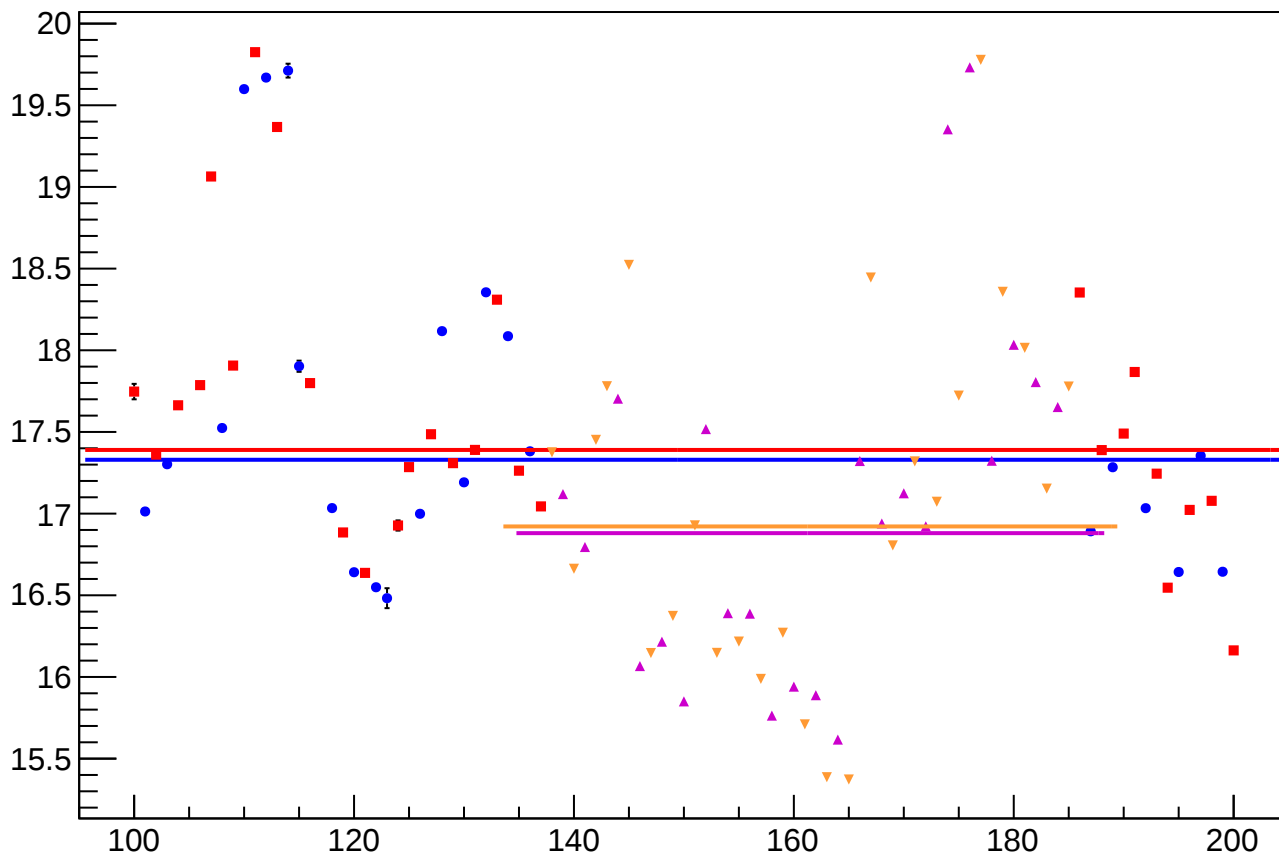
Right: -1.166 ± 3.580 χ^2/NDF : 45.7/50

In: 3.426 ± 3.224 χ^2/NDF : 45.1/45

Out: 2.142 ± 3.056 χ^2/NDF : 54.3/52

All: 2.749 ± 2.218 χ^2/NDF : 99.4/98

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.330 ± 0.004 $\chi^2/\text{NDF}: 42166.9/22$

Left Out: 16.921 ± 0.003 $\chi^2/\text{NDF}: 138990.4/24$

Right Out: 17.390 ± 0.003 $\chi^2/\text{NDF}: 52648.4/27$

Left In: 16.880 ± 0.003 $\chi^2/\text{NDF}: 121736.1/22$

Left: 16.901 ± 0.002 $\chi^2/\text{NDF}: 260831.8/47$

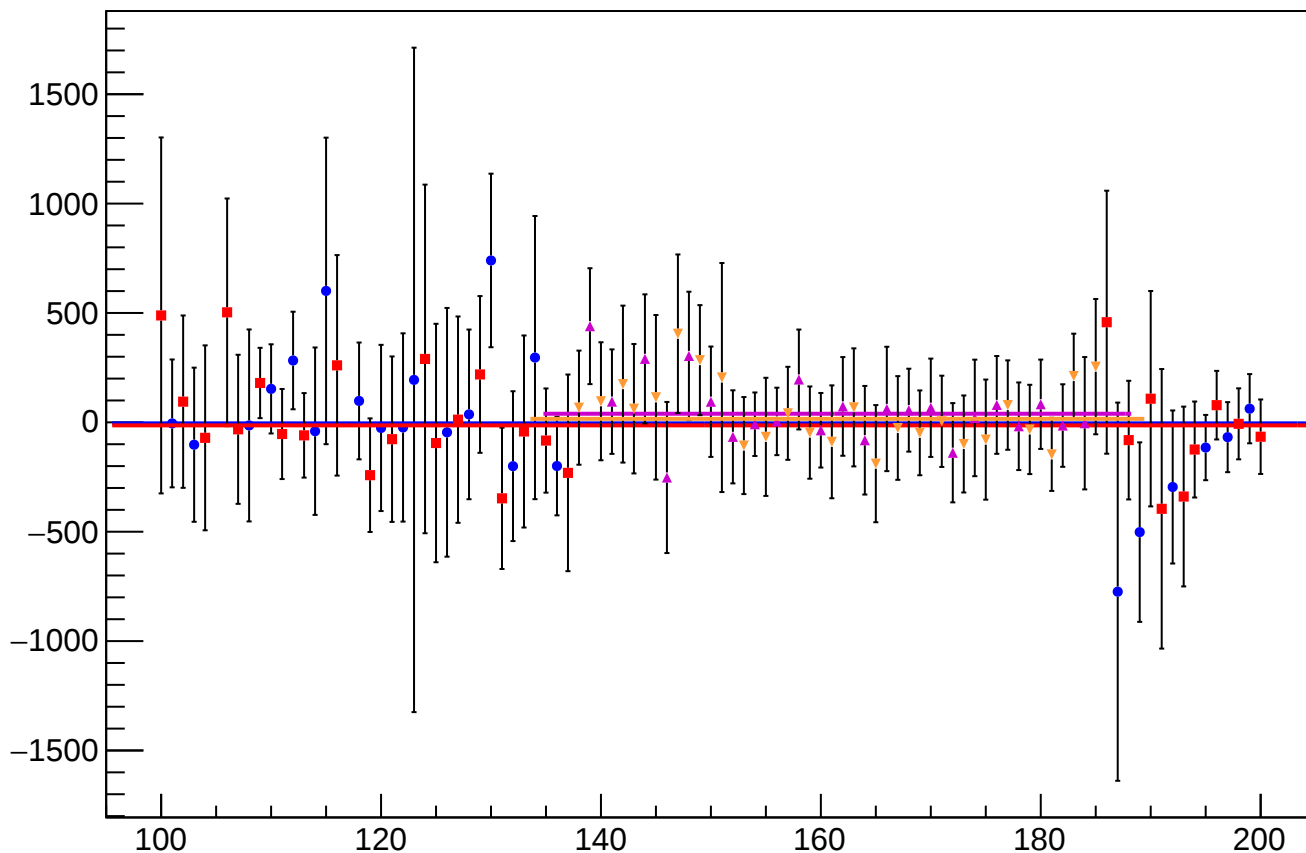
Right: 17.363 ± 0.003 $\chi^2/\text{NDF}: 94955.0/50$

In: 17.045 ± 0.002 $\chi^2/\text{NDF}: 172905.8/45$

Out: 17.109 ± 0.002 $\chi^2/\text{NDF}: 202917.0/52$

All: 17.079 ± 0.002 $\chi^2/\text{NDF}: 376243.5/98$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -4.688 ± 58.640 $\chi^2/\text{NDF}: 11.9/22$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -13.920 ± 52.842 $\chi^2/\text{NDF}: 8.5/27$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

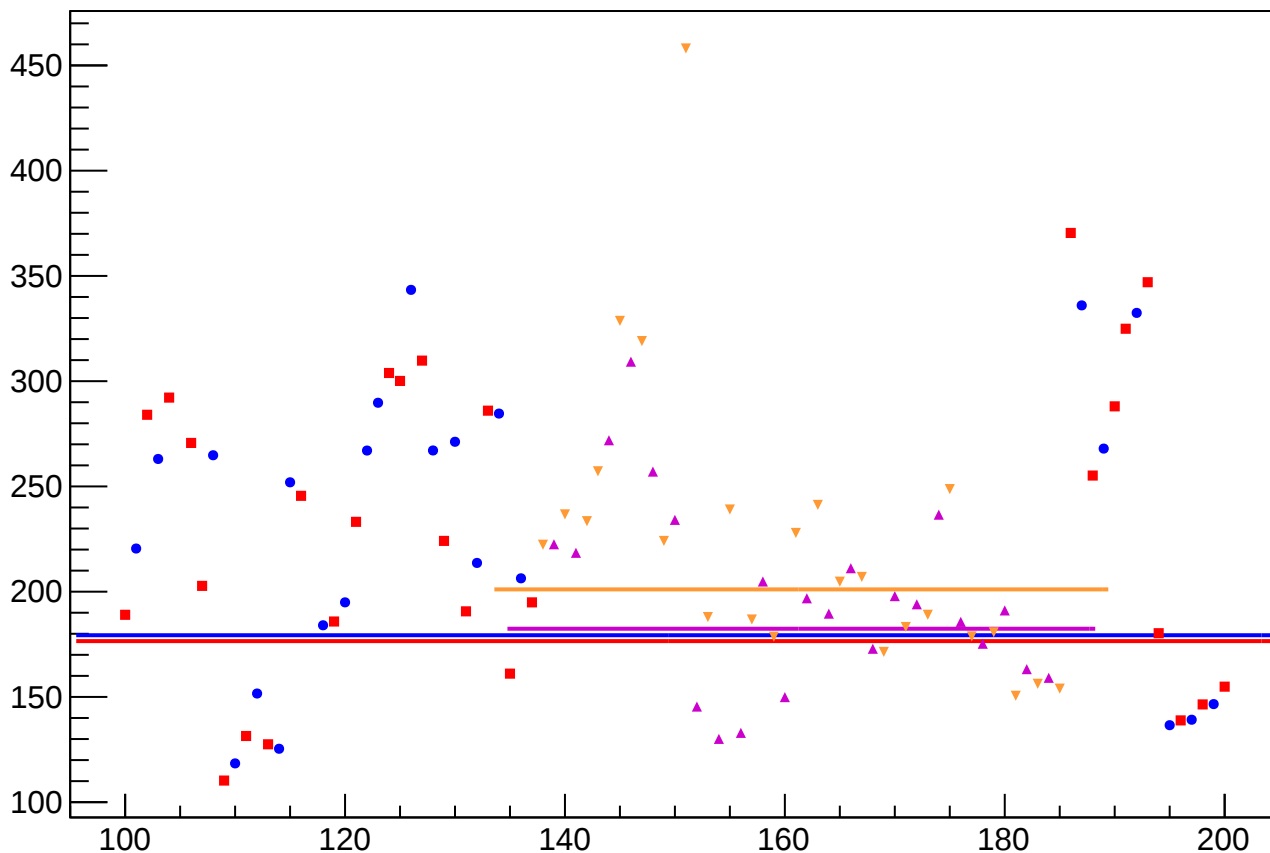
Right: -9.783 ± 39.255 $\chi^2/\text{NDF}: 20.4/50$

In: 22.785 ± 35.983 $\chi^2/\text{NDF}: 19.2/45$

Out: 2.302 ± 35.733 $\chi^2/\text{NDF}: 16.0/52$

All: 12.472 ± 25.355 $\chi^2/\text{NDF}: 35.4/98$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 179.309 ± 0.041 $\chi^2/\text{NDF}: 1992702.7/22$

Left Out: 201.091 ± 0.034 $\chi^2/\text{NDF}: 1731069.1/24$

Right Out: 176.523 ± 0.037 $\chi^2/\text{NDF}: 2663029.9/27$

Left In: 182.396 ± 0.032 $\chi^2/\text{NDF}: 1548907.7/22$

Left: 191.161 ± 0.023 $\chi^2/\text{NDF}: 3437793.2/47$

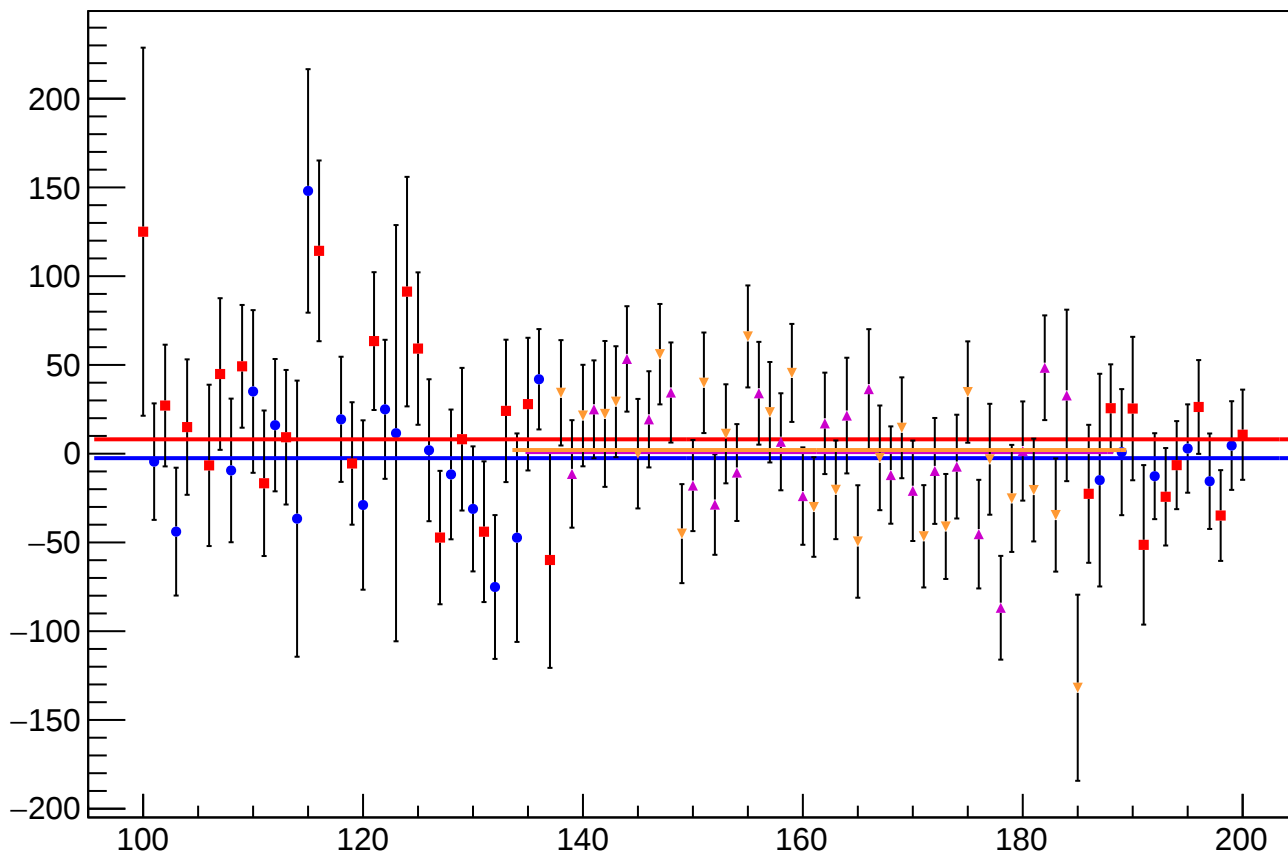
Right: 177.771 ± 0.028 $\chi^2/\text{NDF}: 4658225.6/50$

In: 181.234 ± 0.025 $\chi^2/\text{NDF}: 3545065.2/45$

Out: 189.857 ± 0.025 $\chi^2/\text{NDF}: 4628746.2/52$

All: 185.575 ± 0.018 $\chi^2/\text{NDF}: 8231639.9/98$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.517 ± 7.546 χ^2/NDF : 16.1/22

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 8.096 ± 6.757 χ^2/NDF : 27.5/27

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

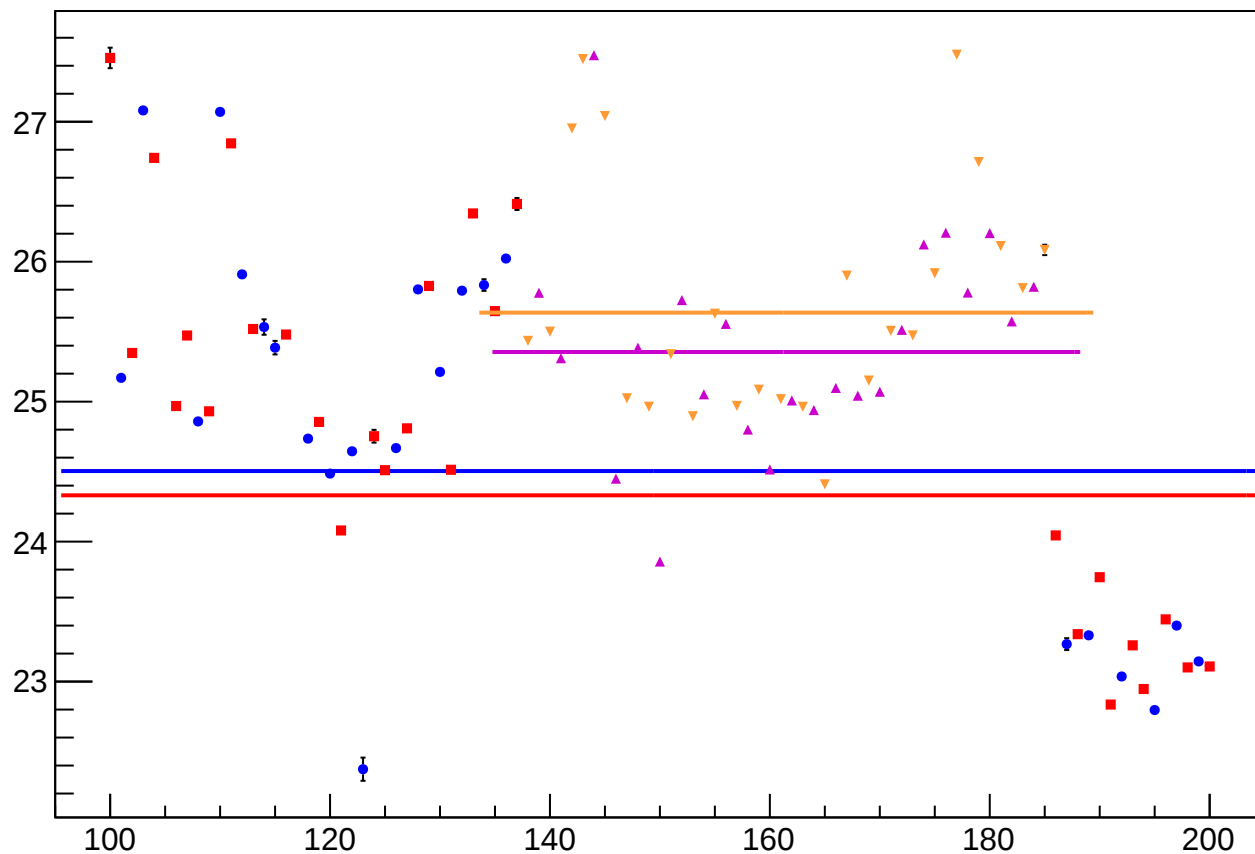
Right: 3.373 ± 5.034 χ^2/NDF : 44.7/50

In: -0.442 ± 4.729 χ^2/NDF : 43.3/45

Out: 4.703 ± 4.474 χ^2/NDF : 67.4/52

All: 2.273 ± 3.250 χ^2/NDF : 111.3/98

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.504 $\pm$ 0.005 χ^2/NDF : 63071.6/22

Left Out: 25.636 $\pm$ 0.004 χ^2/NDF : 35130.7/24

Right Out: 24.331 $\pm$ 0.005 χ^2/NDF : 64925.7/27

Left In: 25.355 $\pm$ 0.004 χ^2/NDF : 29766.2/22

Left: 25.498 $\pm$ 0.003 χ^2/NDF : 67081.3/47

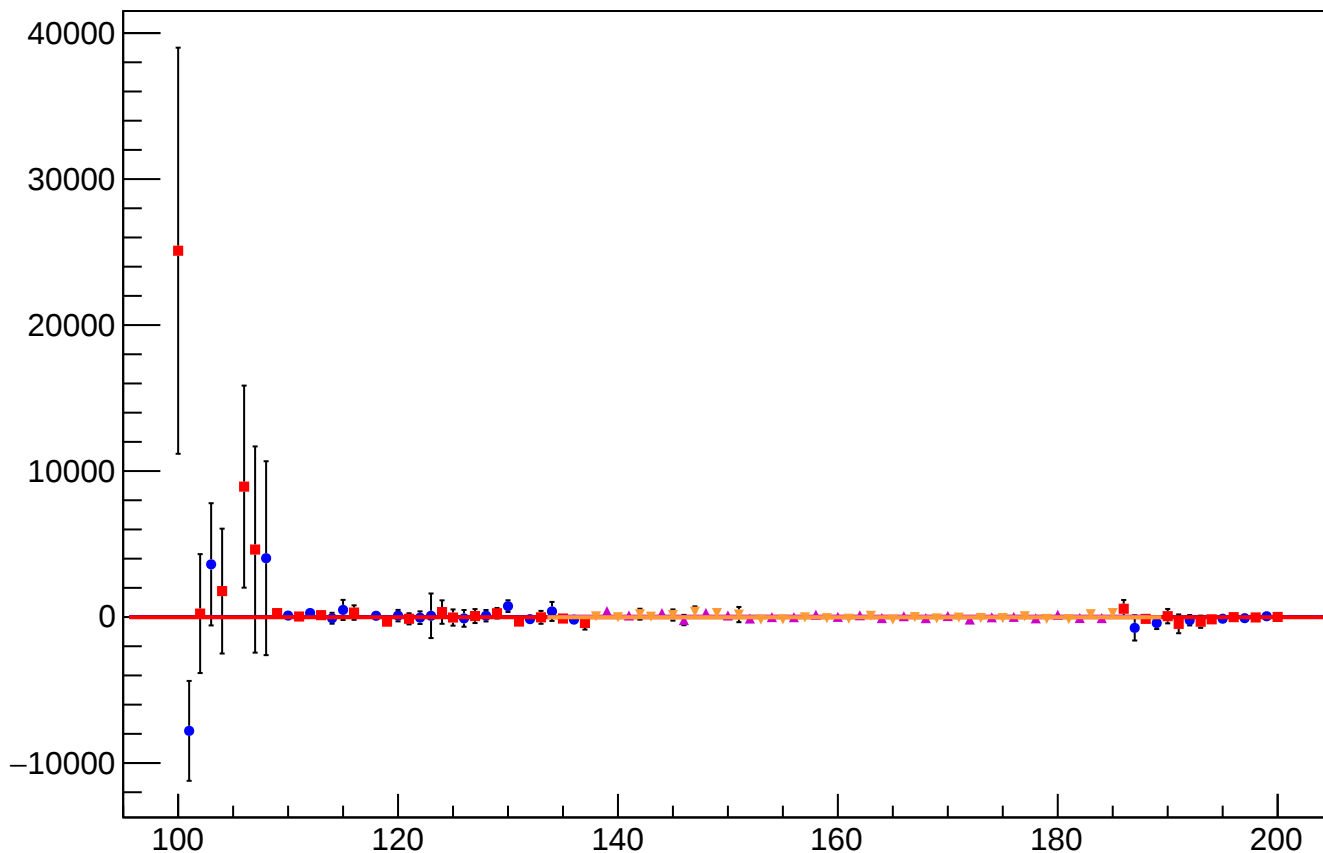
Right: 24.408 $\pm$ 0.004 χ^2/NDF : 128583.2/50

In: 25.021 $\pm$ 0.003 χ^2/NDF : 108268.7/45

Out: 25.064 $\pm$ 0.003 χ^2/NDF : 141976.8/52

All: 25.043 $\pm$ 0.002 χ^2/NDF : 250333.4/98

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 2.378+/-62.280 χ^2/NDF : 16.5/22

Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24

Right Out: -12.634+/-57.077 χ^2/NDF : 14.7/27

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

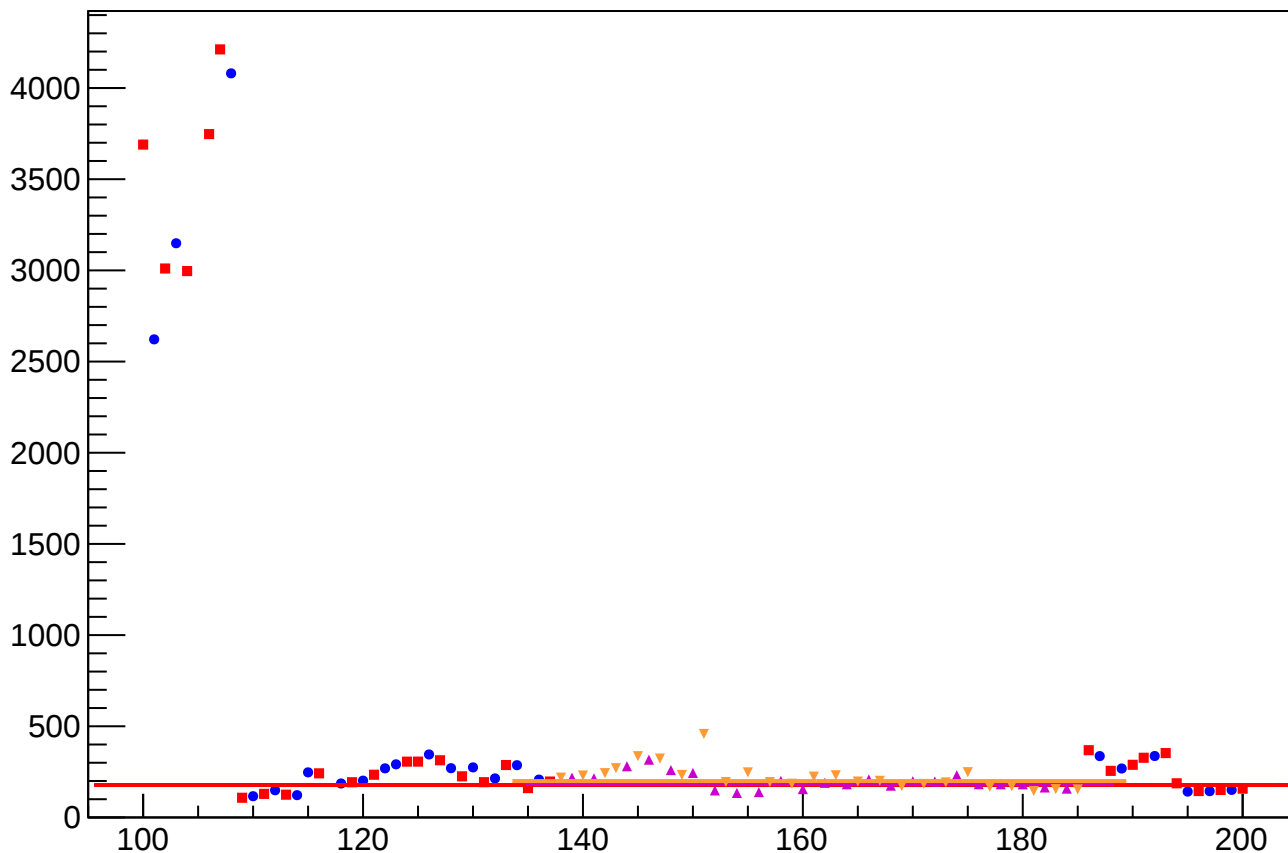
Right: -5.781+/-42.079 χ^2/NDF : 31.3/50

In: 18.233+/-36.937 χ^2/NDF : 24.1/45

Out: -12.742+/-36.833 χ^2/NDF : 22.6/52

All: 2.702+/-26.081 χ^2/NDF : 47.1/98

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 178.039+/-0.044 χ^2/NDF : 4435520.5/22

Left Out: 199.536+/-0.034 χ^2/NDF :1880548.8/24

Right Out: 177.841+/-0.040 χ^2/NDF : 5299551.5/27

Left In: 184.031+/-0.032 χ^2/NDF :1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

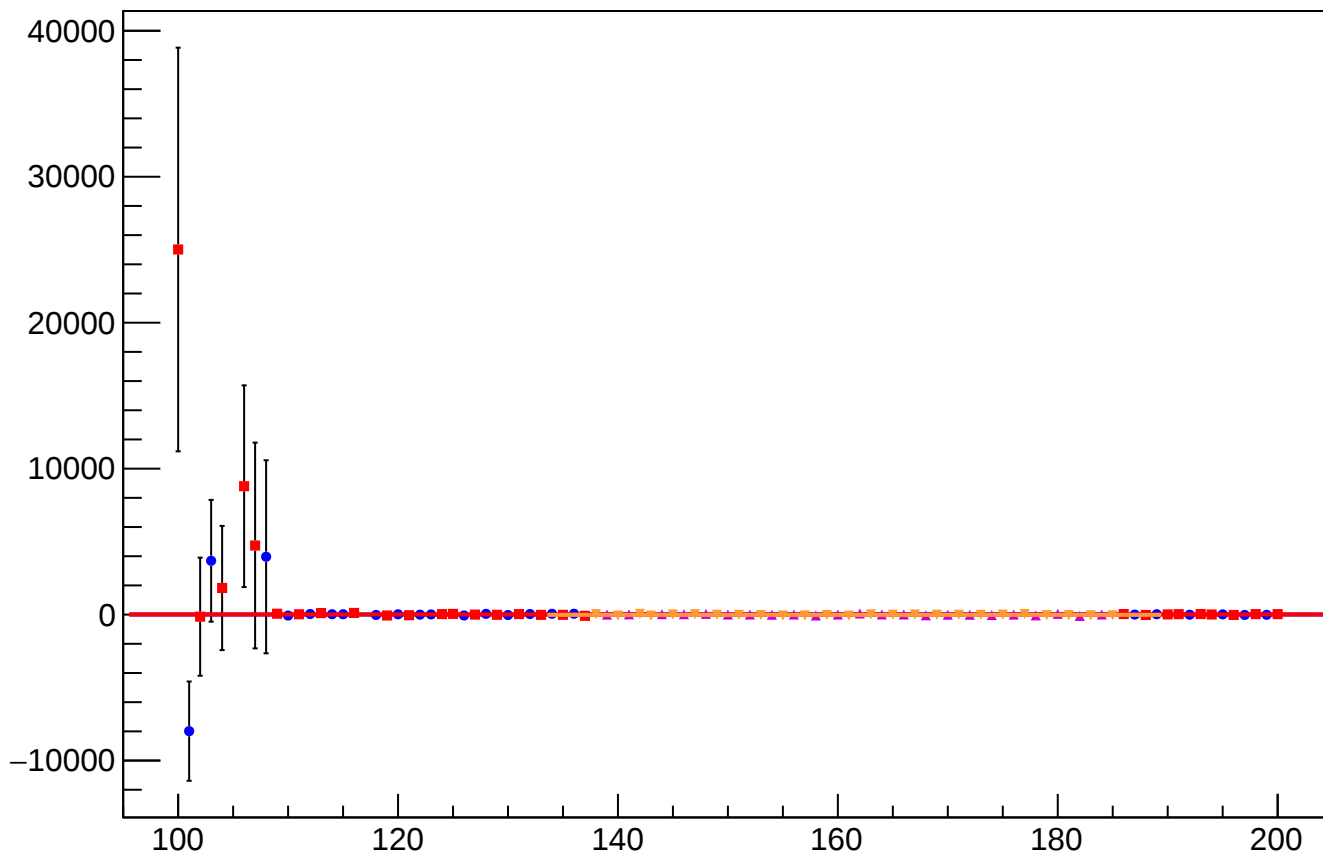
Right: 177.931+/-0.030 χ^2/NDF : 9735083.0/50

In: 181.924+/-0.026 χ^2/NDF :5870979.7/45

Out: 190.501+/-0.026 χ^2/NDF :7348716.7/52

All: 186.224+/-0.018 χ^2/NDF : 13273774.5/98

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.112+/-9.189 χ^2/NDF : 20.9/22

Left Out: -17.580+/-6.694 χ^2/NDF :22.3/24

Right Out: 12.586+/-8.365 χ^2/NDF : 29.0/27

Left In: 1.038+/-6.880 χ^2/NDF :32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

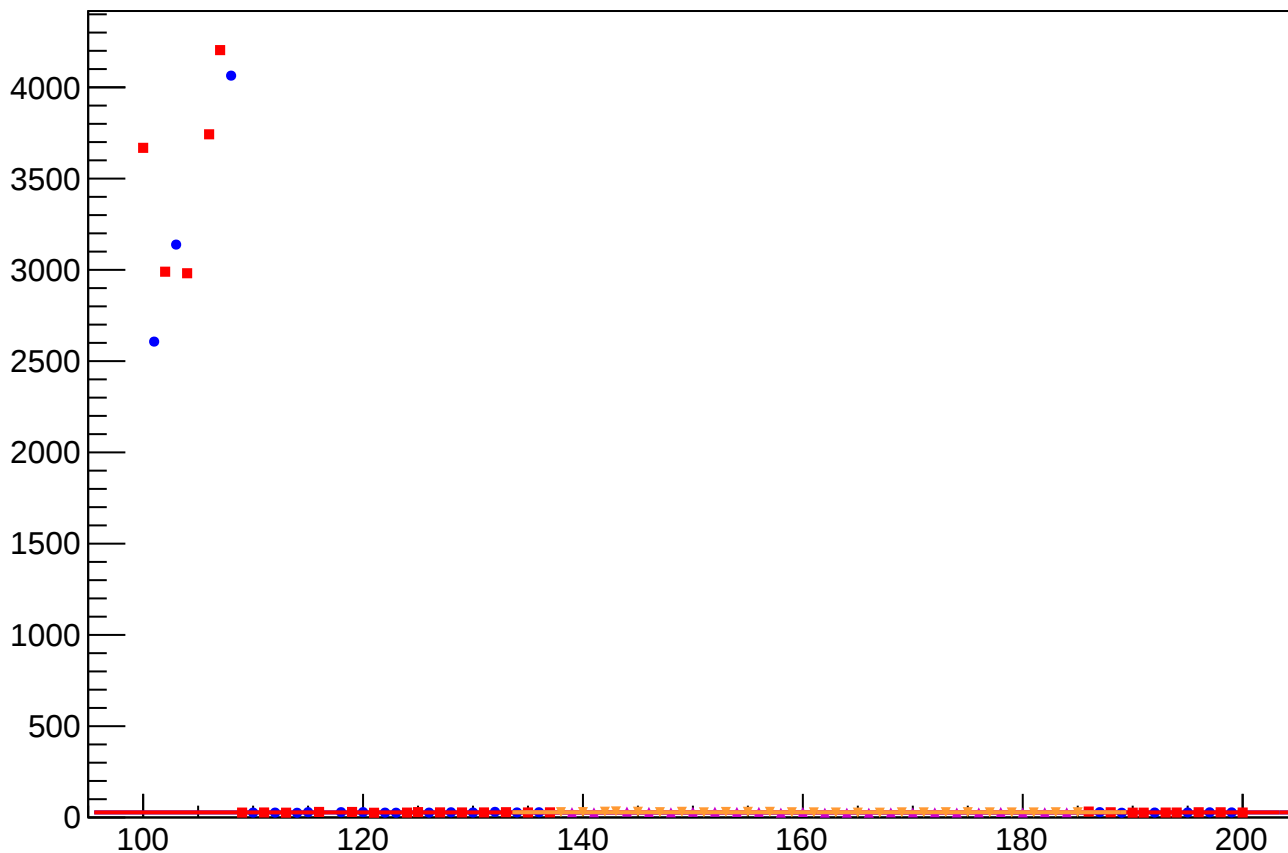
Right: 9.199+/-6.186 χ^2/NDF : 50.3/50

In: 2.501+/-5.508 χ^2/NDF :53.4/45

Out: -5.805+/-5.226 χ^2/NDF :59.3/52

All: -1.869+/-3.791 χ^2/NDF : 113.9/98

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.653 $\pm$ 0.006 χ^2 /NDF: 3034748.9/22

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.674 $\pm$ 0.006 χ^2 /NDF: 3502175.6/27

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

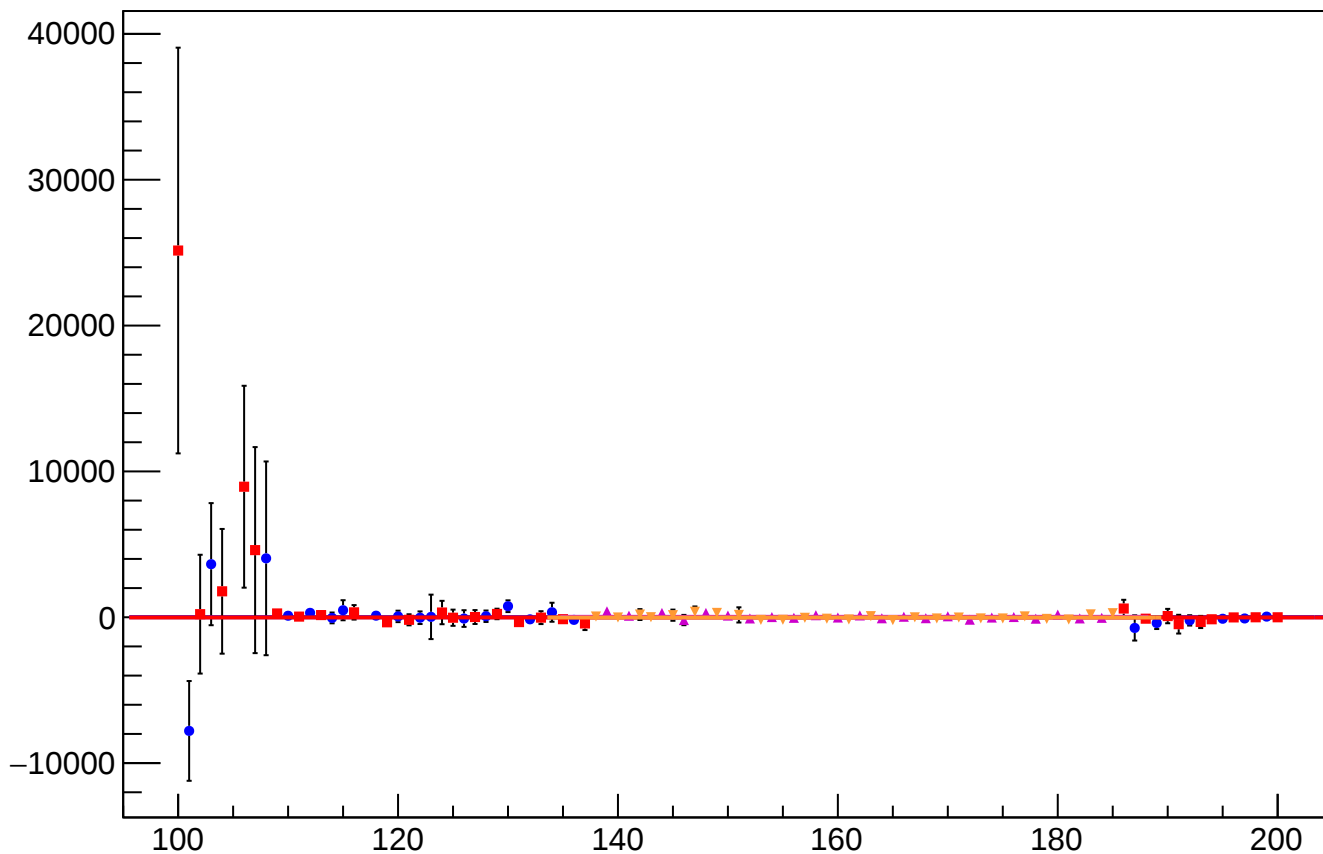
Right: 27.665 $\pm$ 0.004 χ^2 /NDF: 6536930.4/50

In: 28.306 $\pm$ 0.004 χ^2 /NDF: 3175286.7/45

Out: 28.294 $\pm$ 0.004 χ^2 /NDF: 3630664.7/52

All: 28.300 $\pm$ 0.003 χ^2 /NDF: 6805956.7/98

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 5.066+/-62.085 χ^2/NDF : 16.6/22

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: -13.244+/-56.916 χ^2/NDF : 15.4/27

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

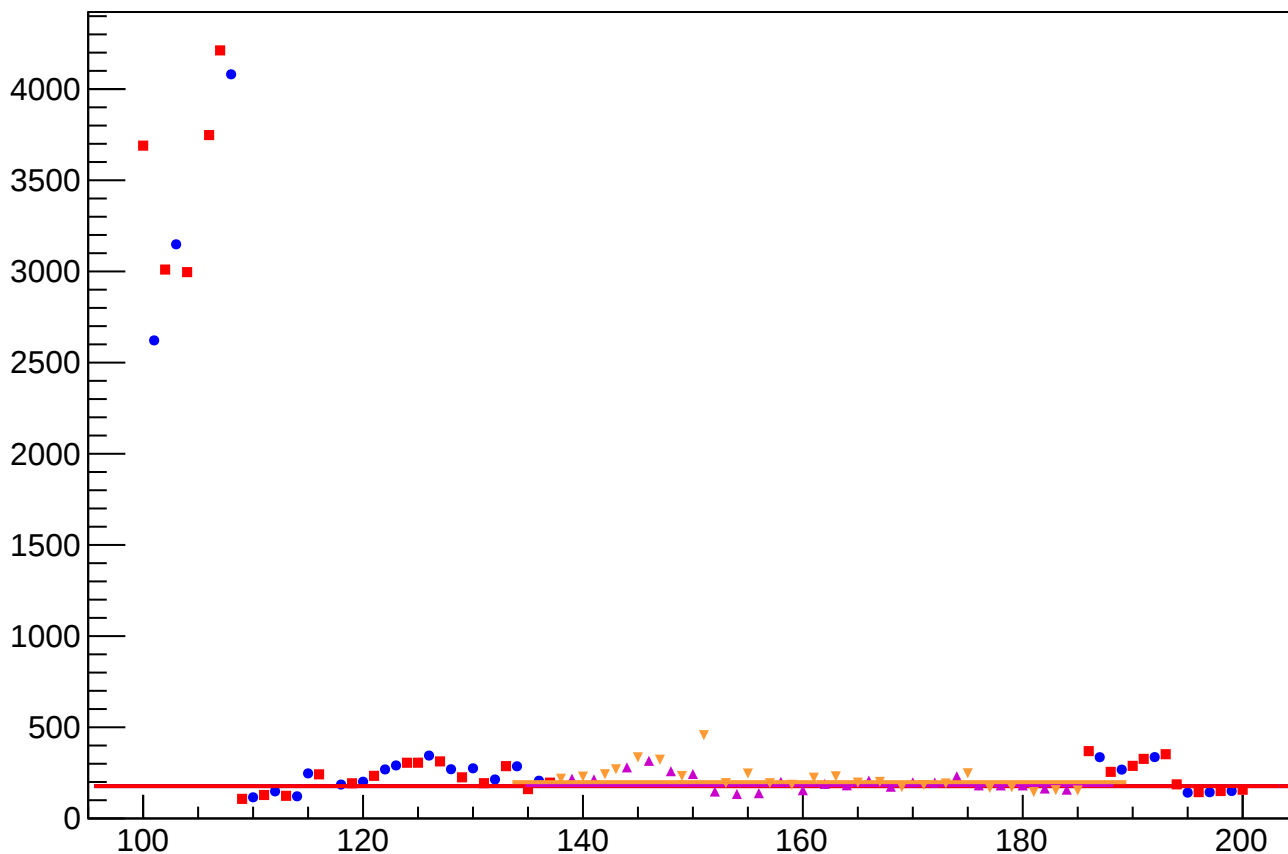
Right: -4.883+/-41.954 χ^2/NDF : 32.1/50

In: 19.280+/-36.848 χ^2/NDF : 24.5/45

Out: -14.550+/-36.742 χ^2/NDF : 24.1/52

All: 2.316+/-26.018 χ^2/NDF : 49.1/98

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.410 $\pm$ 0.044 χ^2 /NDF: 4449129.9/22

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 177.266 $\pm$ 0.040 χ^2 /NDF: 5317052.3/27

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

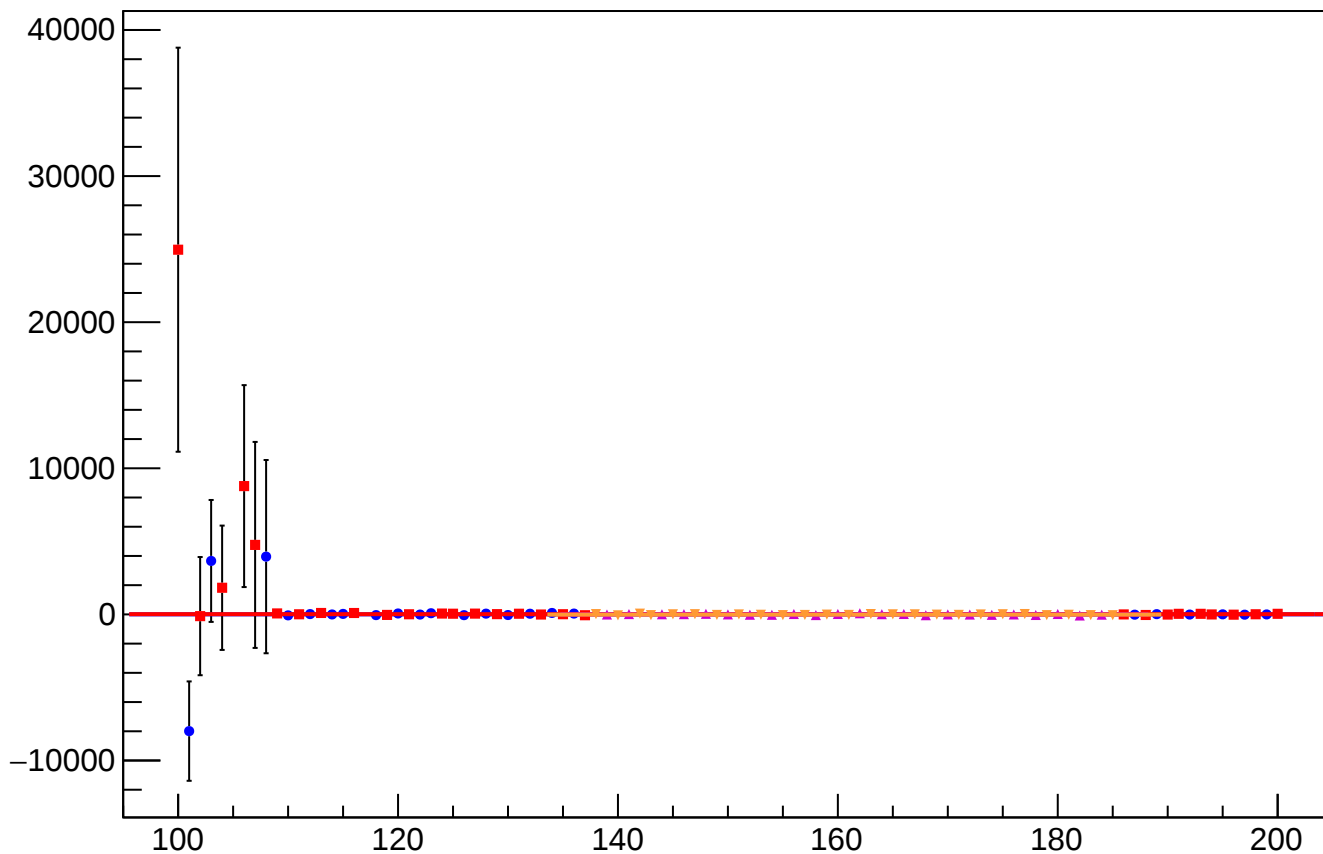
Right: 177.331 $\pm$ 0.030 χ^2 /NDF: 9766188.1/50

In: 181.463 $\pm$ 0.026 χ^2 /NDF:5885185.4/45

Out: 189.997 $\pm$ 0.026 χ^2 /NDF:7368975.6/52

All: 185.743 $\pm$ 0.018 χ^2 /NDF: 13307959.8/98

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.495+/-9.193 χ^2/NDF : 23.9/22

Left Out: -15.006+/-6.723 χ^2/NDF : 17.5/24

Right Out: 15.598+/-8.376 χ^2/NDF : 24.5/27

Left In: -0.702+/-6.909 χ^2/NDF : 26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

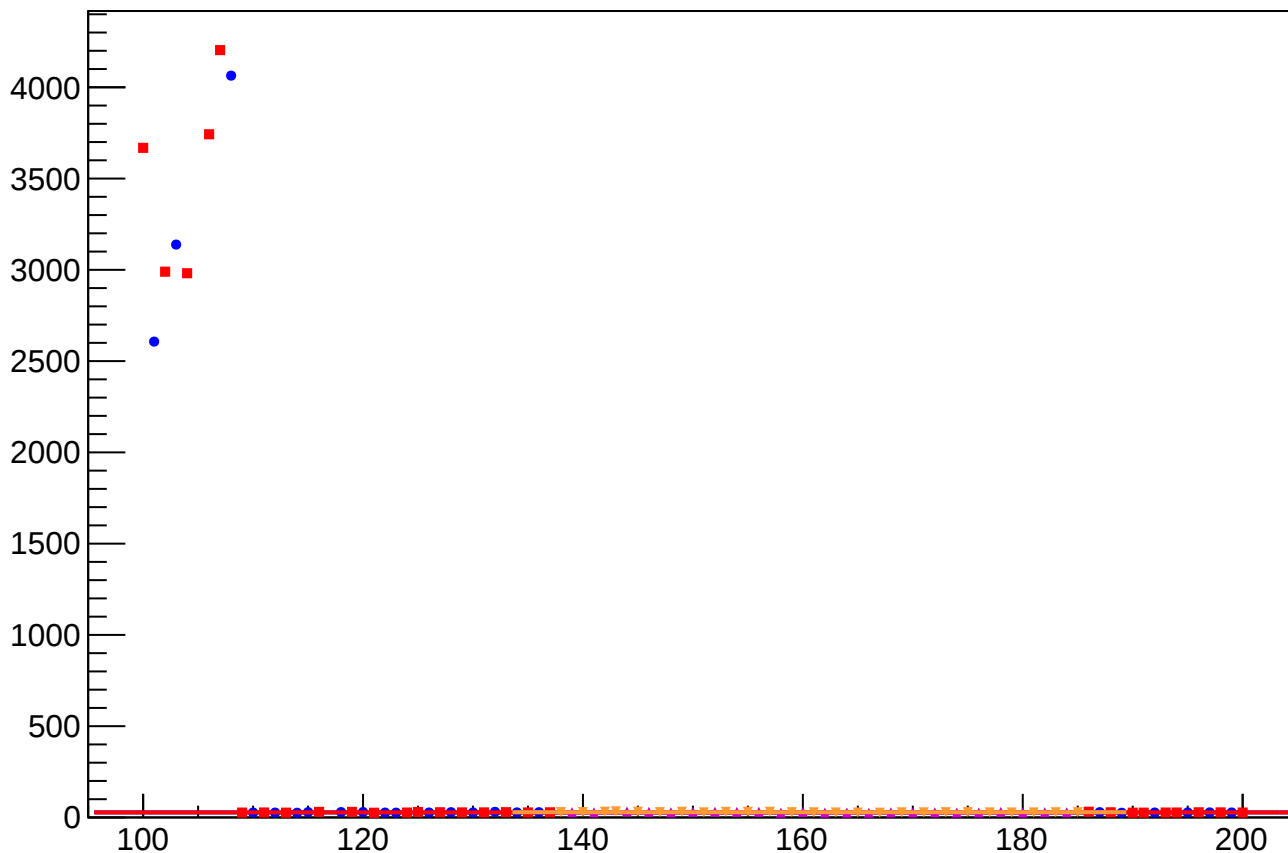
Right: 9.655+/-6.191 χ^2/NDF : 49.6/50

In: 0.452+/-5.523 χ^2/NDF : 50.4/45

Out: -3.013+/-5.243 χ^2/NDF : 50.1/52

All: -1.371+/-3.803 χ^2/NDF : 100.7/98

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.661 $\pm$ 0.007 χ^2 /NDF: 3037070.8/22

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.708 $\pm$ 0.006 χ^2 /NDF: 3499738.9/27

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

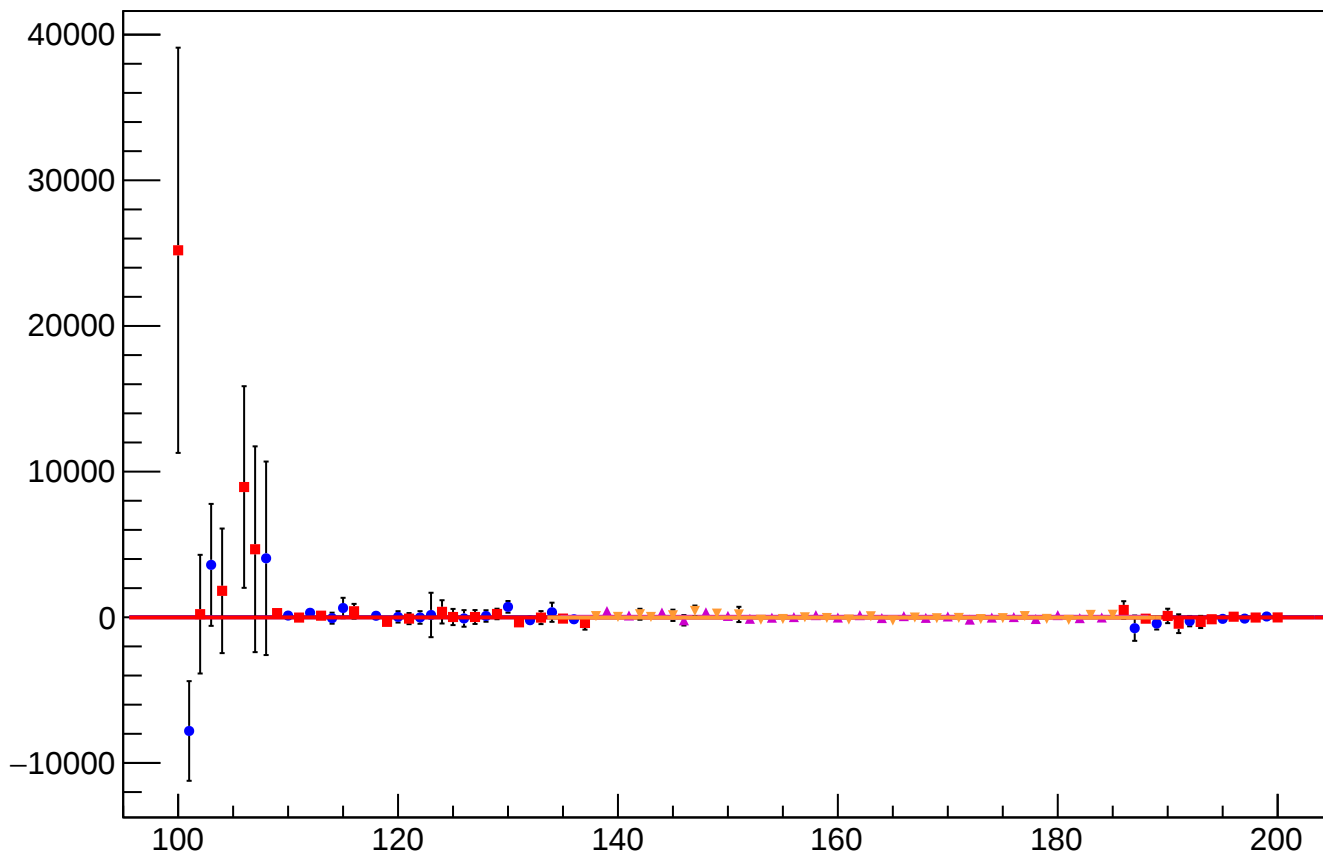
Right: 27.687 $\pm$ 0.004 χ^2 /NDF: 6536838.7/50

In: 28.384 $\pm$ 0.004 χ^2 /NDF: 3185831.7/45

Out: 28.380 $\pm$ 0.004 χ^2 /NDF: 3642864.6/52

All: 28.382 $\pm$ 0.003 χ^2 /NDF: 6828696.9/98

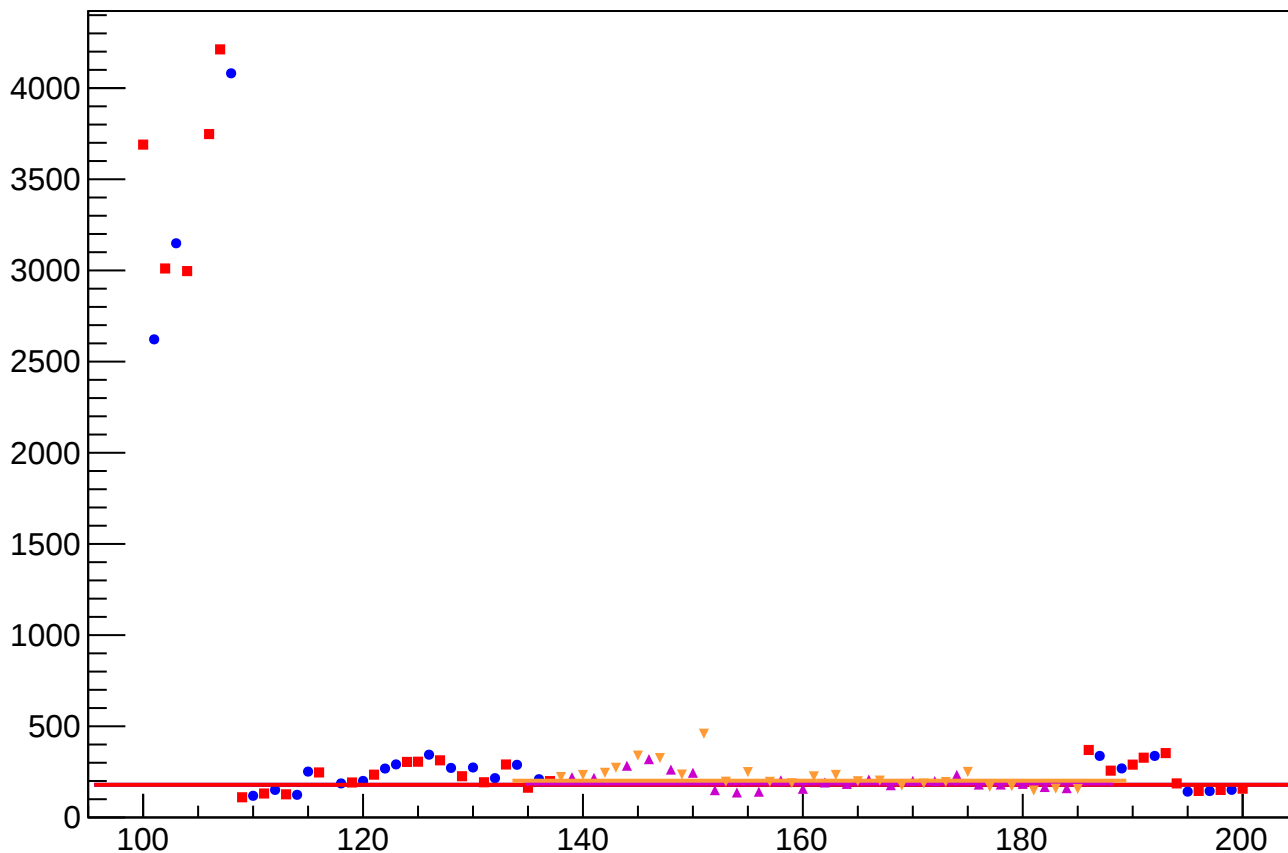
asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 4.166+/-62.583 χ^2/NDF : 17.1/22
 Left Out: -15.548+/-48.688 χ^2/NDF : 8.0/24
 Right Out: -11.091+/-57.409 χ^2/NDF : 14.6/27
 Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47
 Right: -4.119+/-42.305 χ^2/NDF : 31.8/50
 In: 21.602+/-37.252 χ^2/NDF : 25.4/45
 Out: -13.683+/-37.132 χ^2/NDF : 22.6/52
 All: 3.903+/-26.299 χ^2/NDF : 48.5/98

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 179.015 $\pm$ 0.044 χ^2 /NDF: 4413916.2/22

Left Out: 201.600 $\pm$ 0.034 χ^2 /NDF:1857453.2/24

Right Out: 179.116 $\pm$ 0.041 χ^2 /NDF: 5253103.6/27

Left In: 186.107 $\pm$ 0.033 χ^2 /NDF:1391327.2/22

Left: 193.474 $\pm$ 0.024 χ^2 /NDF: 3354998.7/47

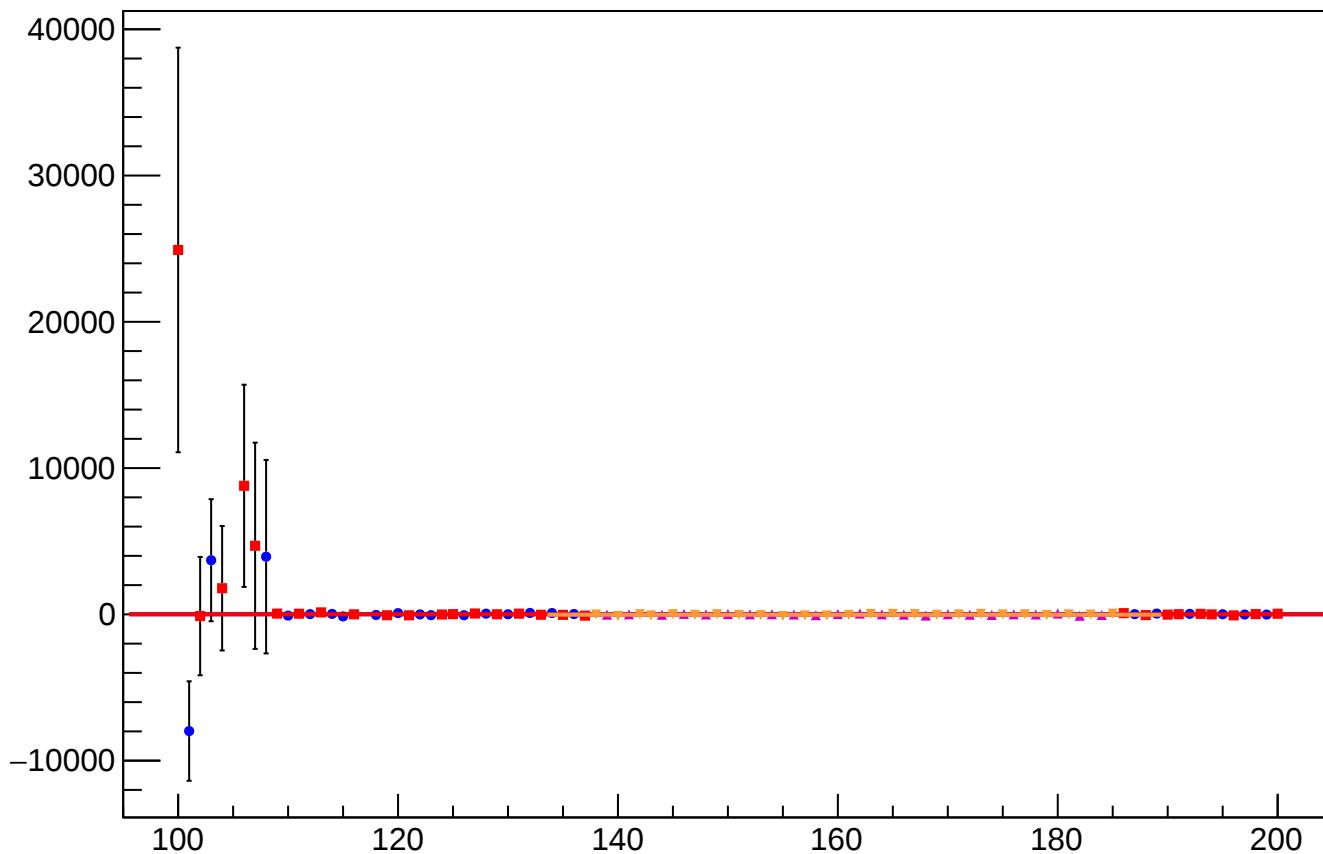
Right: 179.070 $\pm$ 0.030 χ^2 /NDF: 9667022.6/50

In: 183.594 $\pm$ 0.026 χ^2 /NDF:5821826.3/45

Out: 192.194 $\pm$ 0.026 χ^2 /NDF:7288997.9/52

All: 187.908 $\pm$ 0.019 χ^2 /NDF: 13164284.2/98

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.460 $\pm$ 11.209 χ^2 /NDF: 22.4/22

Left Out: -23.360 $\pm$ 8.064 χ^2 /NDF: 25.8/24

Right Out: 6.085 $\pm$ 10.195 χ^2 /NDF: 31.3/27

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

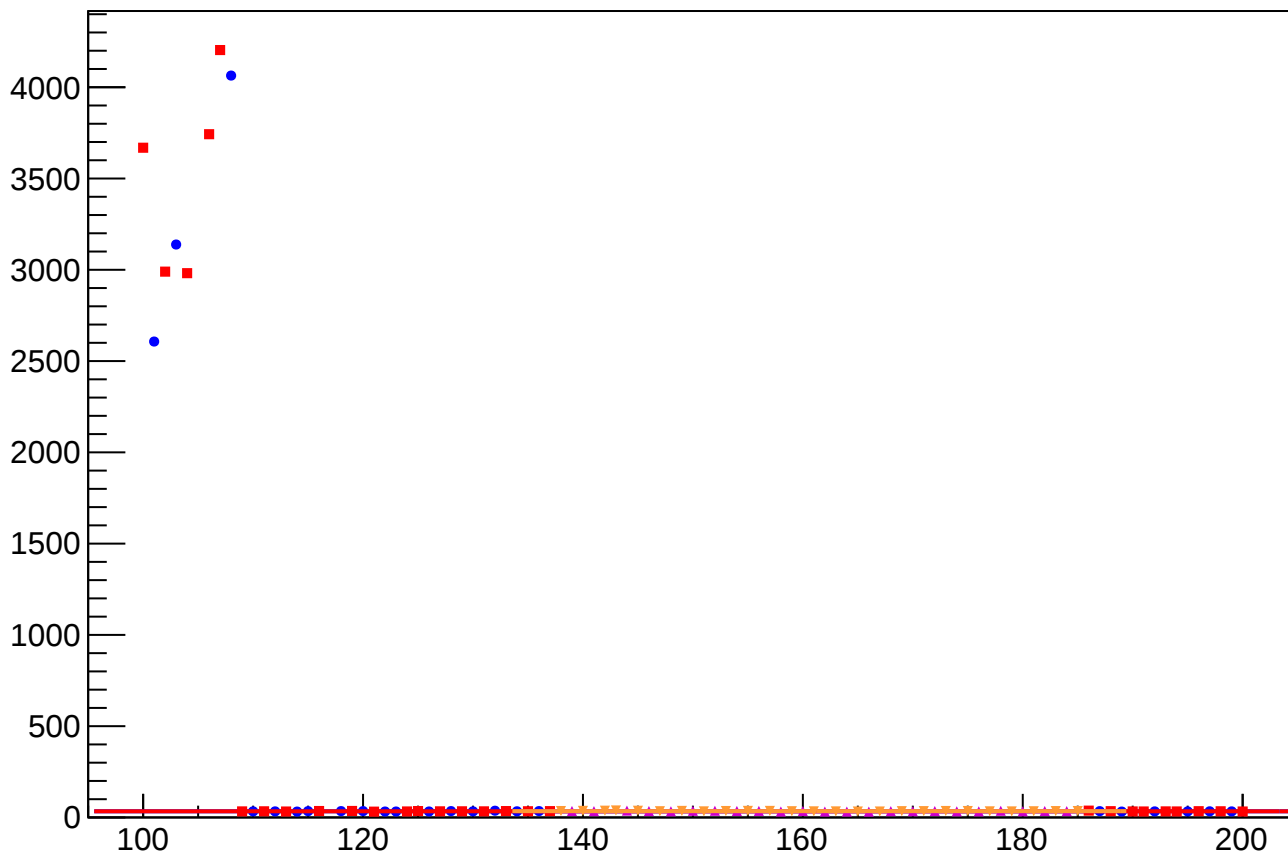
Right: 7.613 $\pm$ 7.542 χ^2 /NDF: 53.7/50

In: -0.518 $\pm$ 6.675 χ^2 /NDF: 44.7/45

Out: -12.027 $\pm$ 6.325 χ^2 /NDF: 62.2/52

All: -6.582 $\pm$ 4.591 χ^2 /NDF: 108.5/98

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.755 $\pm$ 0.008 χ^2 /NDF: 3011653.6/22

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.778 $\pm$ 0.007 χ^2 /NDF: 3464789.7/27

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

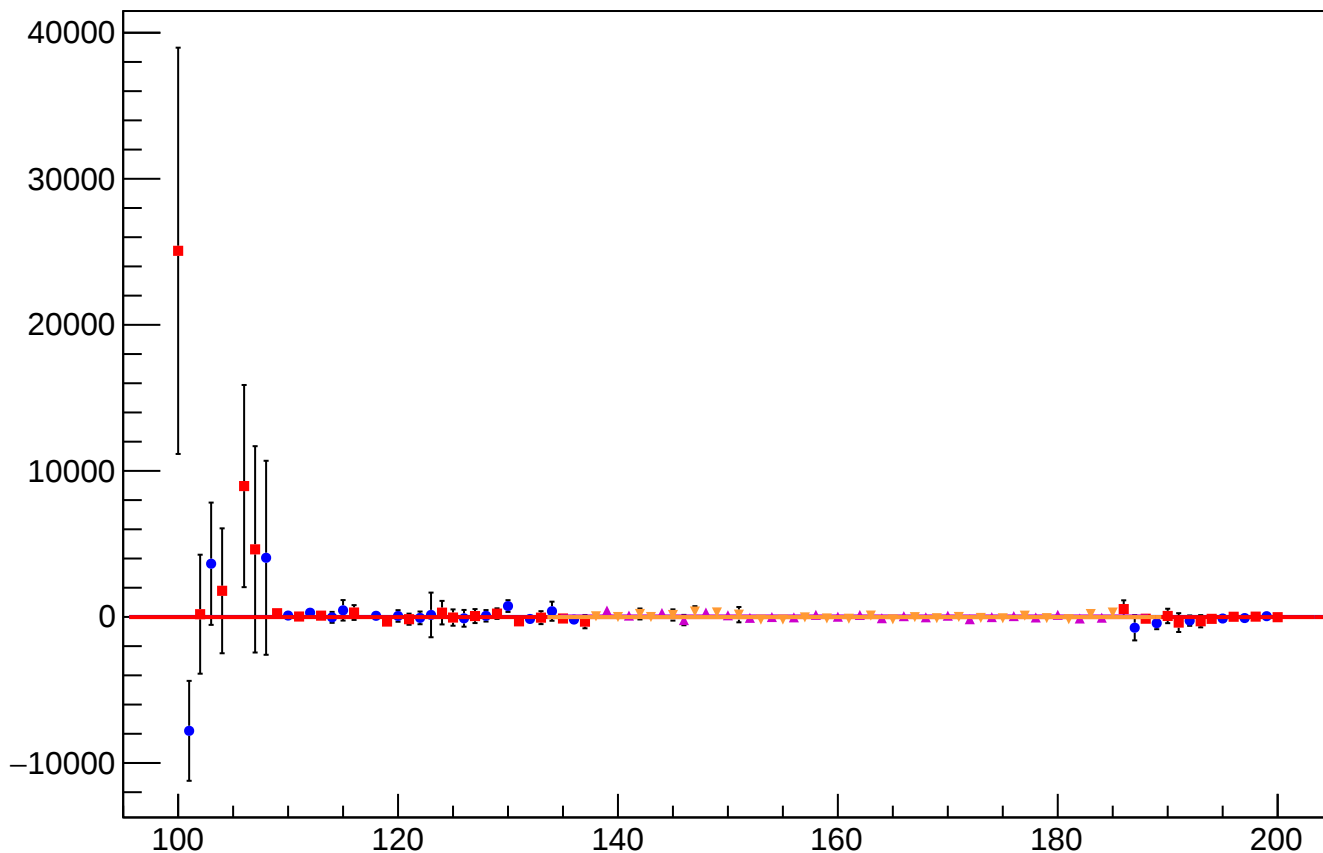
Right: 33.768 $\pm$ 0.005 χ^2 /NDF: 6476447.8/50

In: 34.355 $\pm$ 0.005 χ^2 /NDF: 3080851.5/45

Out: 34.292 $\pm$ 0.004 χ^2 /NDF: 3531018.1/52

All: 34.322 $\pm$ 0.003 χ^2 /NDF: 6611963.2/98

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 0.242 ± 62.378 $\chi^2/\text{NDF}: 16.6/22$

Left Out: -8.916 ± 48.615 $\chi^2/\text{NDF}: 8.6/24$

Right Out: -12.080 ± 57.157 $\chi^2/\text{NDF}: 13.3/27$

Left In: 34.127 ± 46.296 $\chi^2/\text{NDF}: 7.4/22$

Left: 13.656 ± 33.526 $\chi^2/\text{NDF}: 16.5/47$

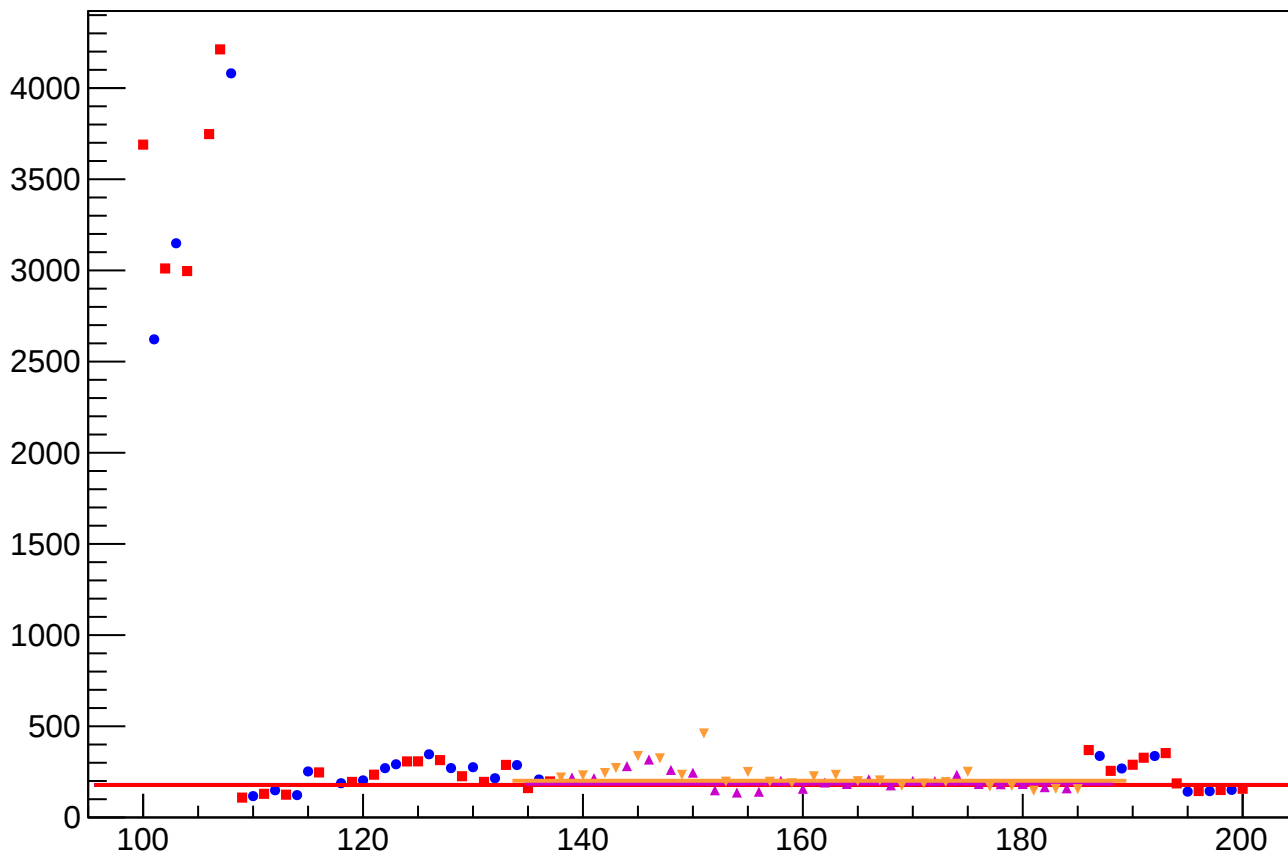
Right: -6.456 ± 42.141 $\chi^2/\text{NDF}: 29.9/50$

In: 22.091 ± 37.176 $\chi^2/\text{NDF}: 24.2/45$

Out: -10.244 ± 37.032 $\chi^2/\text{NDF}: 21.9/52$

All: 5.861 ± 26.236 $\chi^2/\text{NDF}: 46.5/98$

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 178.279+/-0.044 χ^2/NDF : 4444626.4/22

Left Out: 201.296+/-0.034 χ^2/NDF :1851134.1/24

Right Out: 178.087+/-0.040 χ^2/NDF : 5304412.2/27

Left In: 185.854+/-0.033 χ^2/NDF :1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

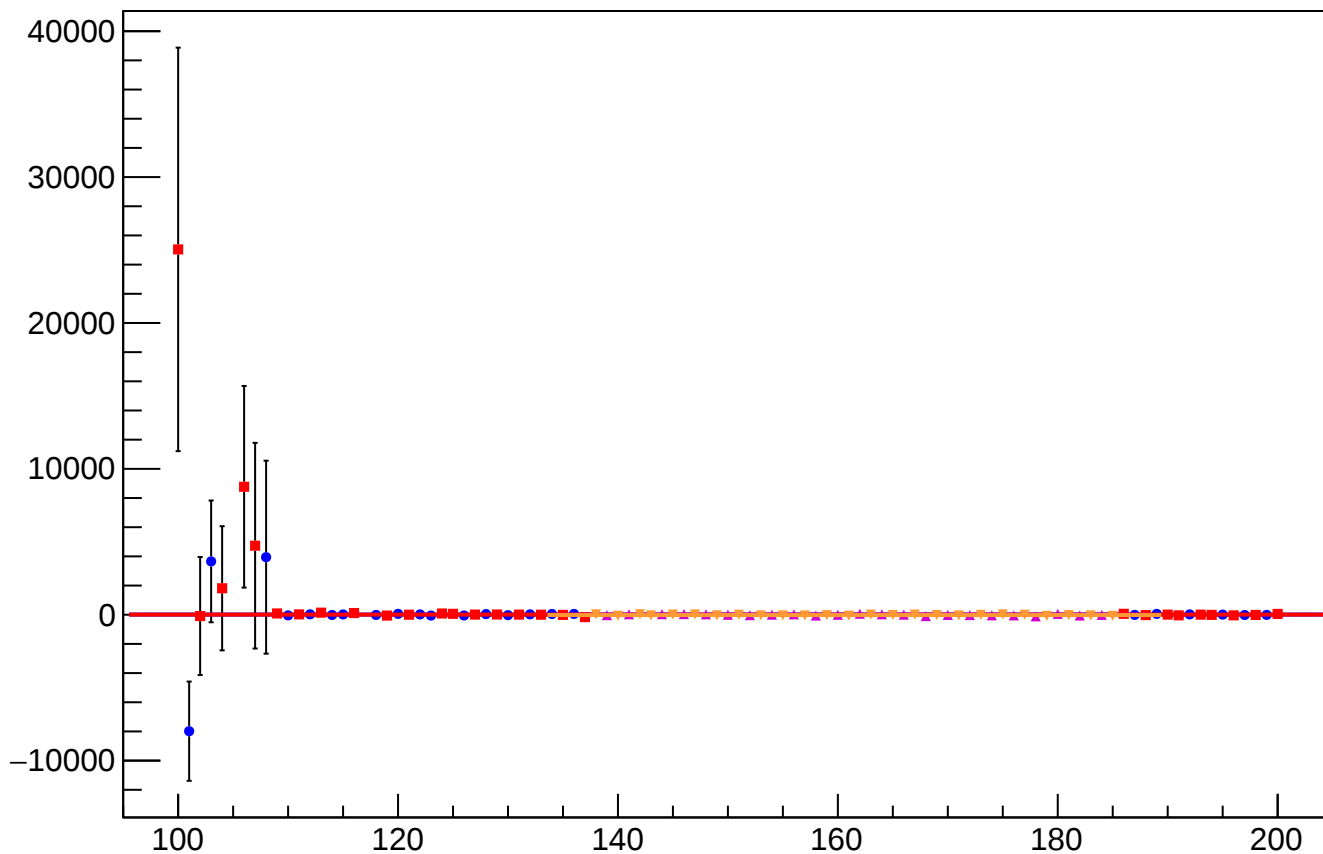
Right: 178.175+/-0.030 χ^2/NDF : 9749048.9/50

In: 183.163+/-0.026 χ^2/NDF :5845414.7/45

Out: 191.554+/-0.026 χ^2/NDF :7346895.5/52

All: 187.375+/-0.019 χ^2/NDF : 13243447.2/98

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.312+/-10.172 χ^2/NDF : 17.1/22

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 9.475+/-9.247 χ^2/NDF : 36.5/27

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

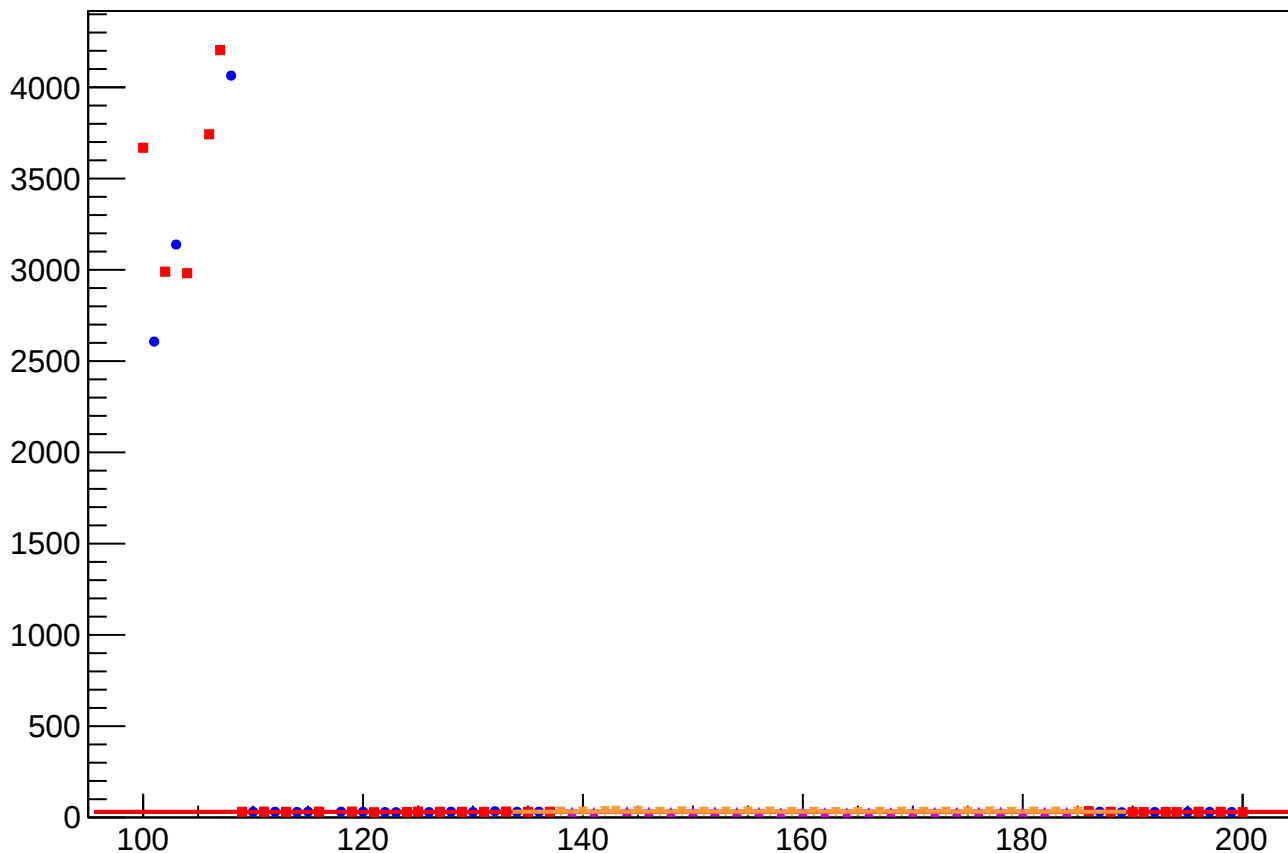
Right: 9.854+/-6.842 χ^2/NDF : 53.7/50

In: -0.170+/-6.062 χ^2/NDF : 57.1/45

Out: -10.372+/-5.749 χ^2/NDF : 62.8/52

All: -5.541+/-4.172 χ^2/NDF : 121.4/98

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.623+/-0.007 χ^2/NDF : 3024880.3/22

Left Out: 31.482+/-0.005 χ^2/NDF : 82437.2/24

Right Out: 30.609+/-0.007 χ^2/NDF : 3479599.4/27

Left In: 31.484+/-0.005 χ^2/NDF : 87981.1/22

Left: 31.483+/-0.004 χ^2/NDF : 170418.5/47

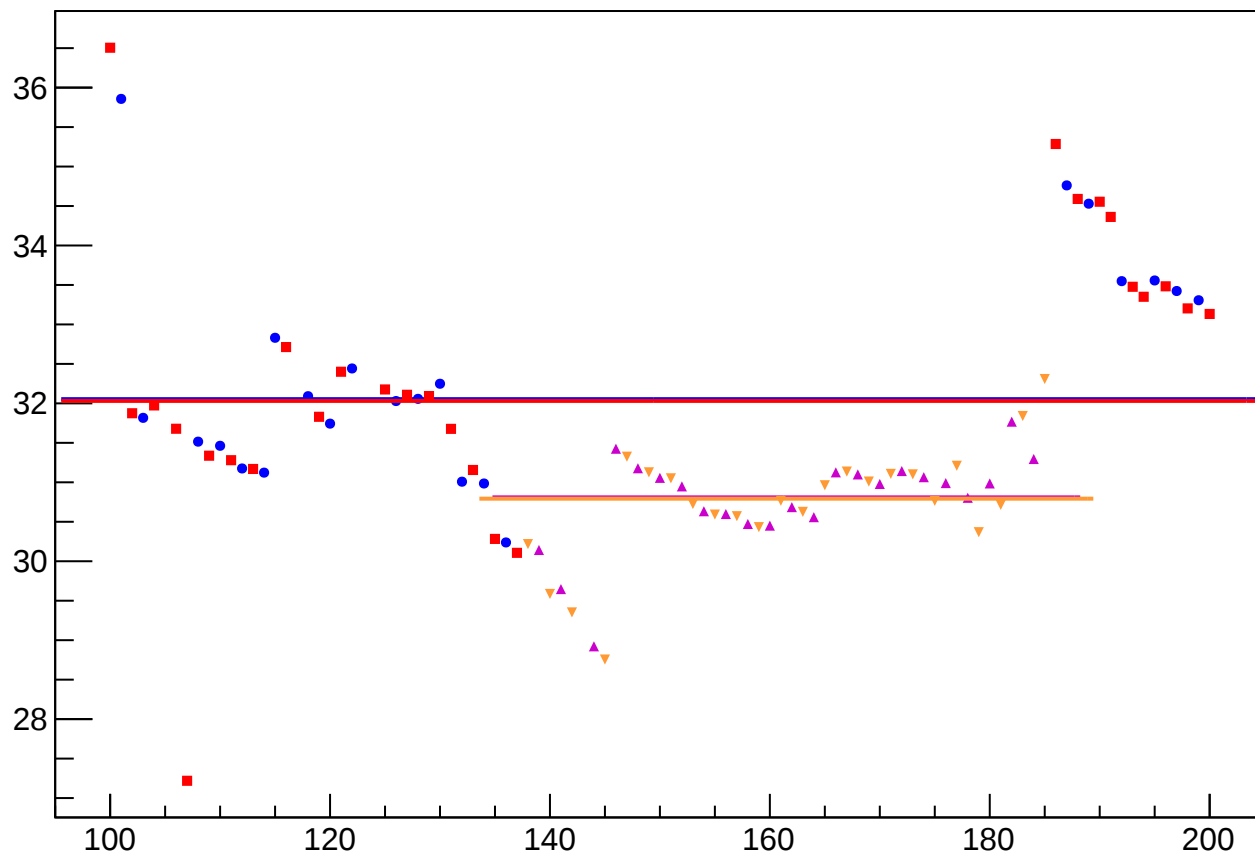
Right: 30.616+/-0.005 χ^2/NDF : 6504481.8/50

In: 31.179+/-0.004 χ^2/NDF : 3122099.9/45

Out: 31.145+/-0.004 χ^2/NDF : 3572953.9/52

All: 31.161+/-0.003 χ^2/NDF : 6695087.0/98

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.053+/-0.000 χ^2/NDF : 2095661088.6/21

Left Out: 30.793+/-0.000 χ^2/NDF : 1007261340.7/23

Right Out: 32.031+/-0.000 χ^2/NDF : 1986782092.8/26

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000 χ^2/NDF : 1829591088.1/46

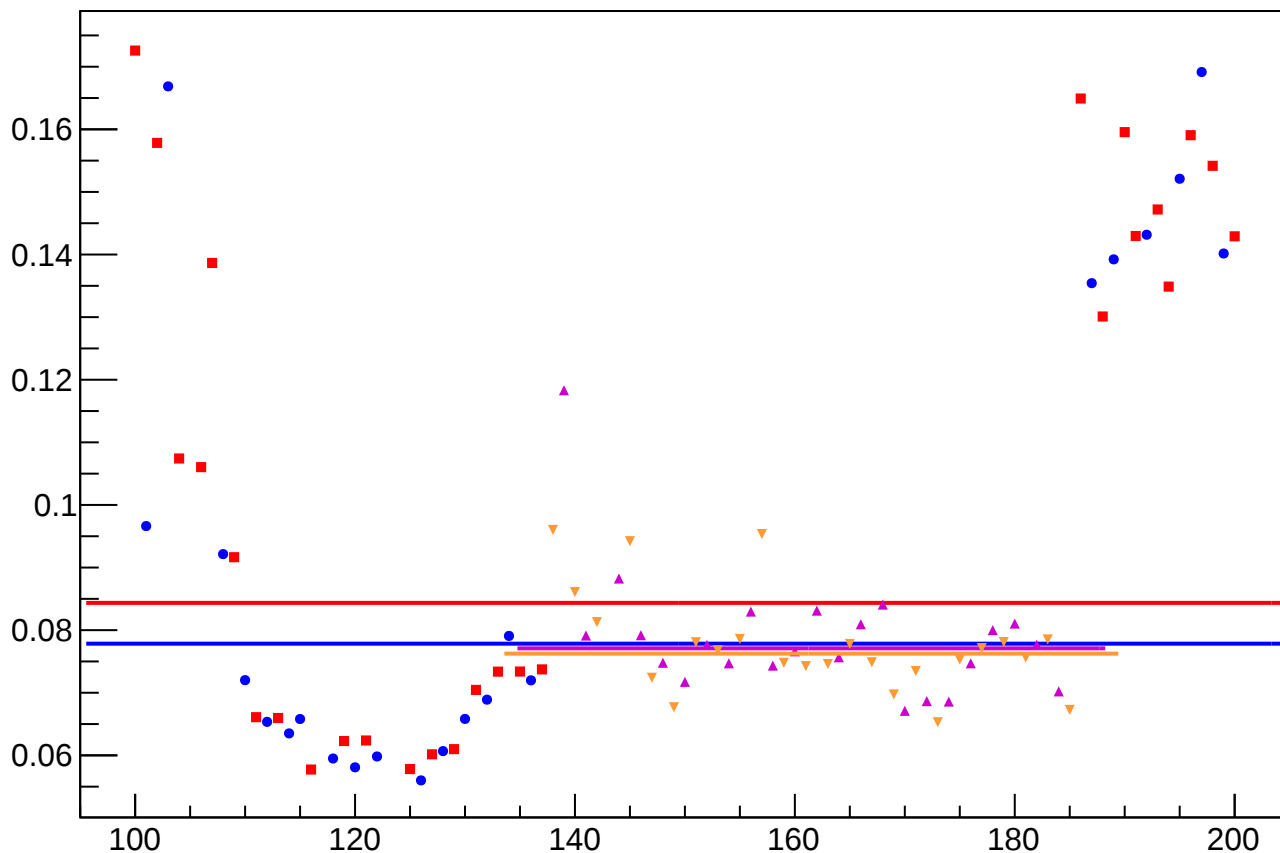
Right: 32.042+/-0.000 χ^2/NDF : 4082792838.4/48

In: 31.242+/-0.000 χ^2/NDF : 4351819448.3/44

Out: 31.221+/-0.000 χ^2/NDF : 4458028838.9/50

All: 31.231+/-0.000 χ^2/NDF : 8810732341.2/95

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.078+/-0.000 χ^2/NDF : 2596056.9/21

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.084+/-0.000 χ^2/NDF : 3342731.9/26

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

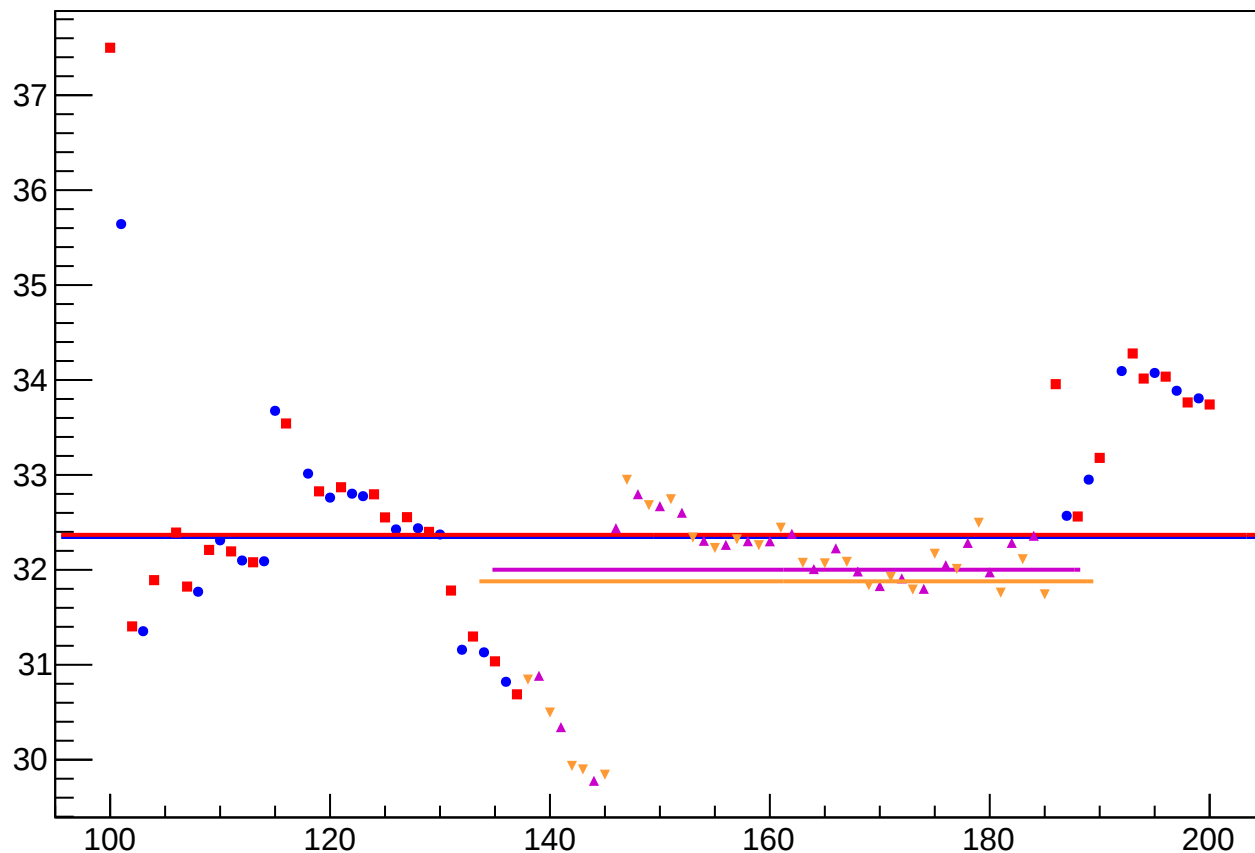
Right: 0.081+/-0.000 χ^2/NDF : 5999887.1/48

In: 0.077+/-0.000 χ^2/NDF : 2922943.8/44

Out: 0.079+/-0.000 χ^2/NDF : 3746068.4/50

All: 0.078+/-0.000 χ^2/NDF : 6681021.0/95

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.346+/-0.000 χ^2/NDF : 1203149053.6/22

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.369+/-0.000 χ^2/NDF : 734887999.8/26

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

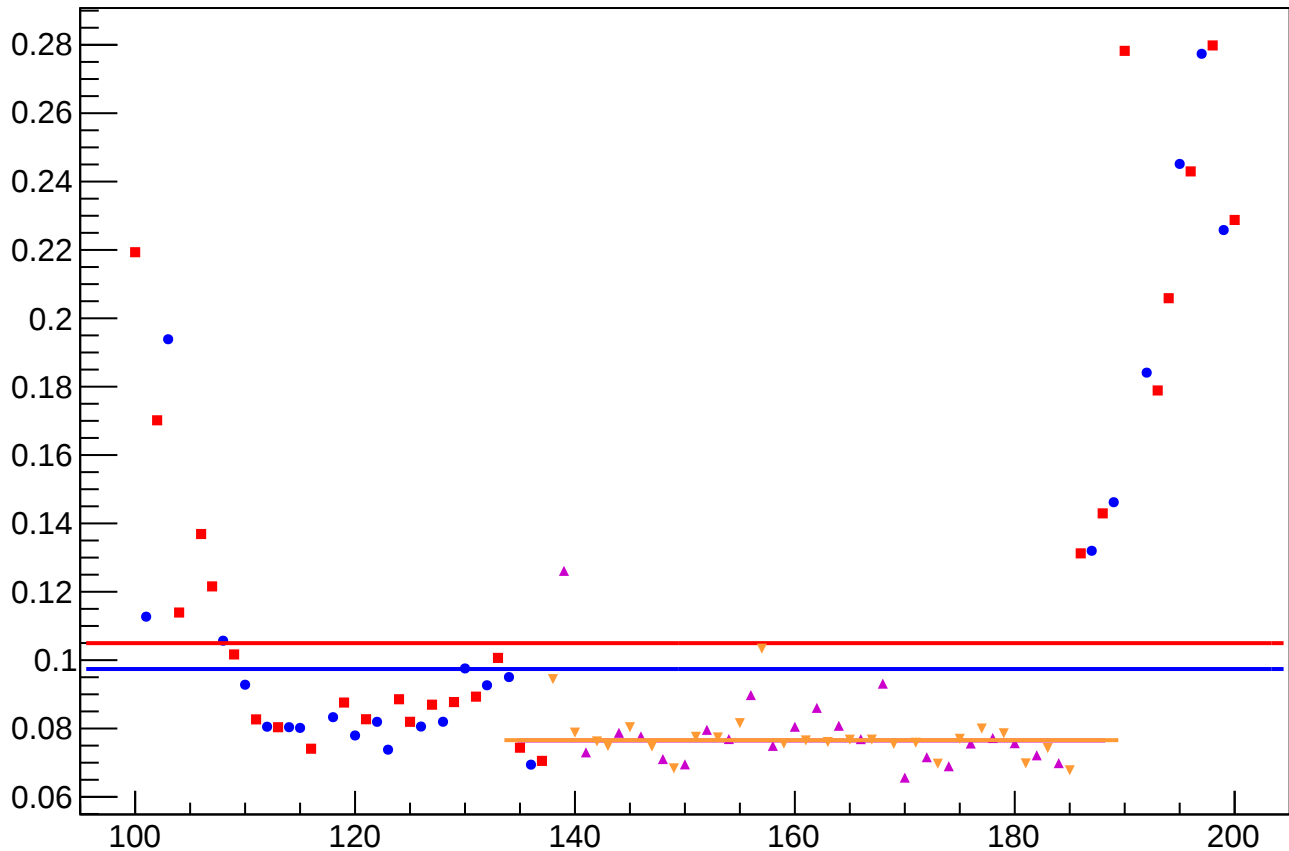
Right: 32.358+/-0.000 χ^2/NDF : 1938267043.2/49

In: 32.085+/-0.000 χ^2/NDF : 2693187006.8/45

Out: 31.997+/-0.000 χ^2/NDF : 2876839941.9/51

All: 32.040+/-0.000 χ^2/NDF : 5584330148.6/9

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.097 $\pm$ 0.000 χ^2 /NDF: 2971882.1/22

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.105 $\pm$ 0.000 χ^2 /NDF: 3507786.8/26

Left In: 0.076 $\pm$ 0.000 χ^2 /NDF:432563.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 642235.6/47

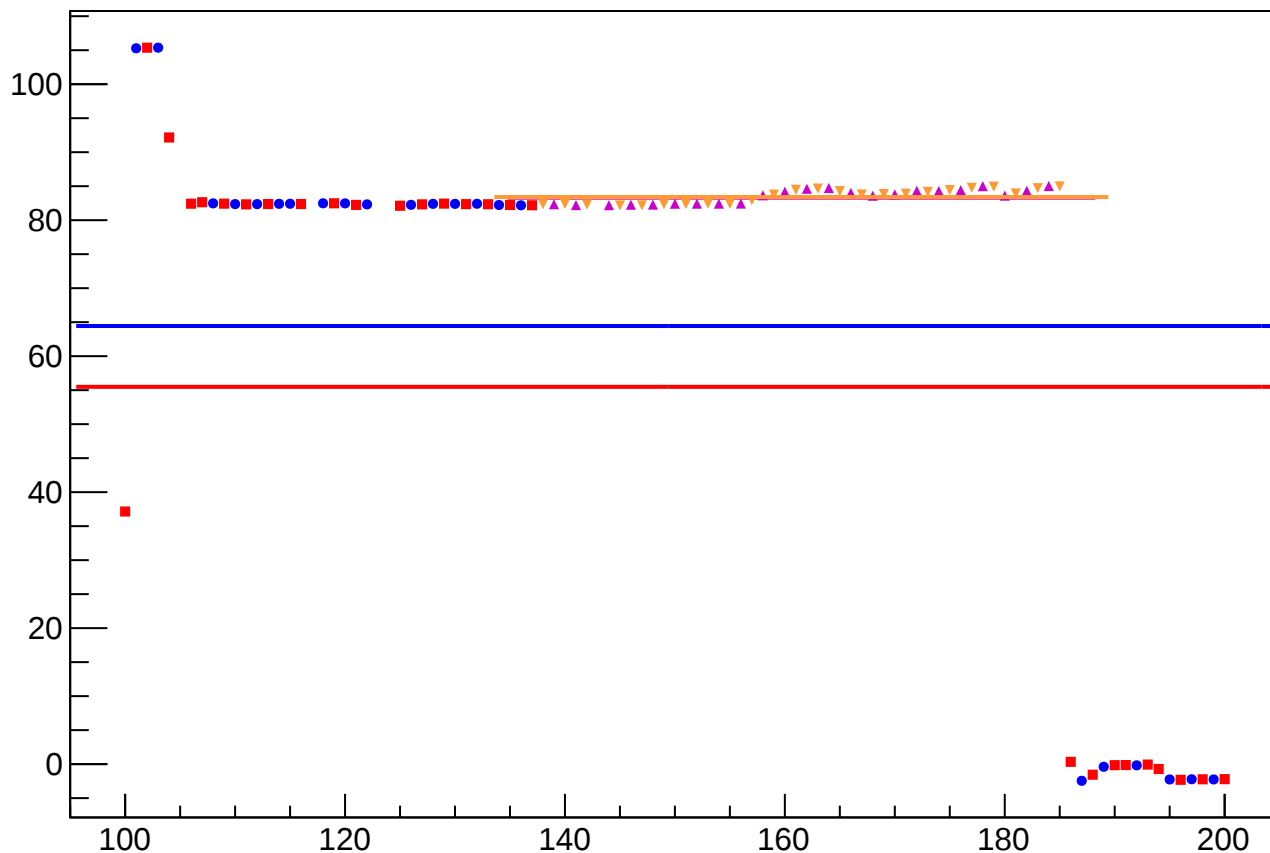
Right: 0.101 $\pm$ 0.000 χ^2 /NDF: 6530760.2/49

In: 0.082 $\pm$ 0.000 χ^2 /NDF:3984332.8/45

Out: 0.083 $\pm$ 0.000 χ^2 /NDF:4830174.2/51

All: 0.082 $\pm$ 0.000 χ^2 /NDF: 8827267.2/97

yield_dsl_mean vs Slug, Sign Corrected



Right In: 64.435+/-0.000 χ^2/NDF : 7570838403263.8/21

Left Out: 83.402+/-0.000 χ^2/NDF : 8756634444.3/23

Right Out: 55.491+/-0.000 χ^2/NDF : 10028795306538.5/26

Left In: 83.309+/-0.000 χ^2/NDF : 8421247810.9/22

Left: 83.355+/-0.000 χ^2/NDF : 17213898269.1/46

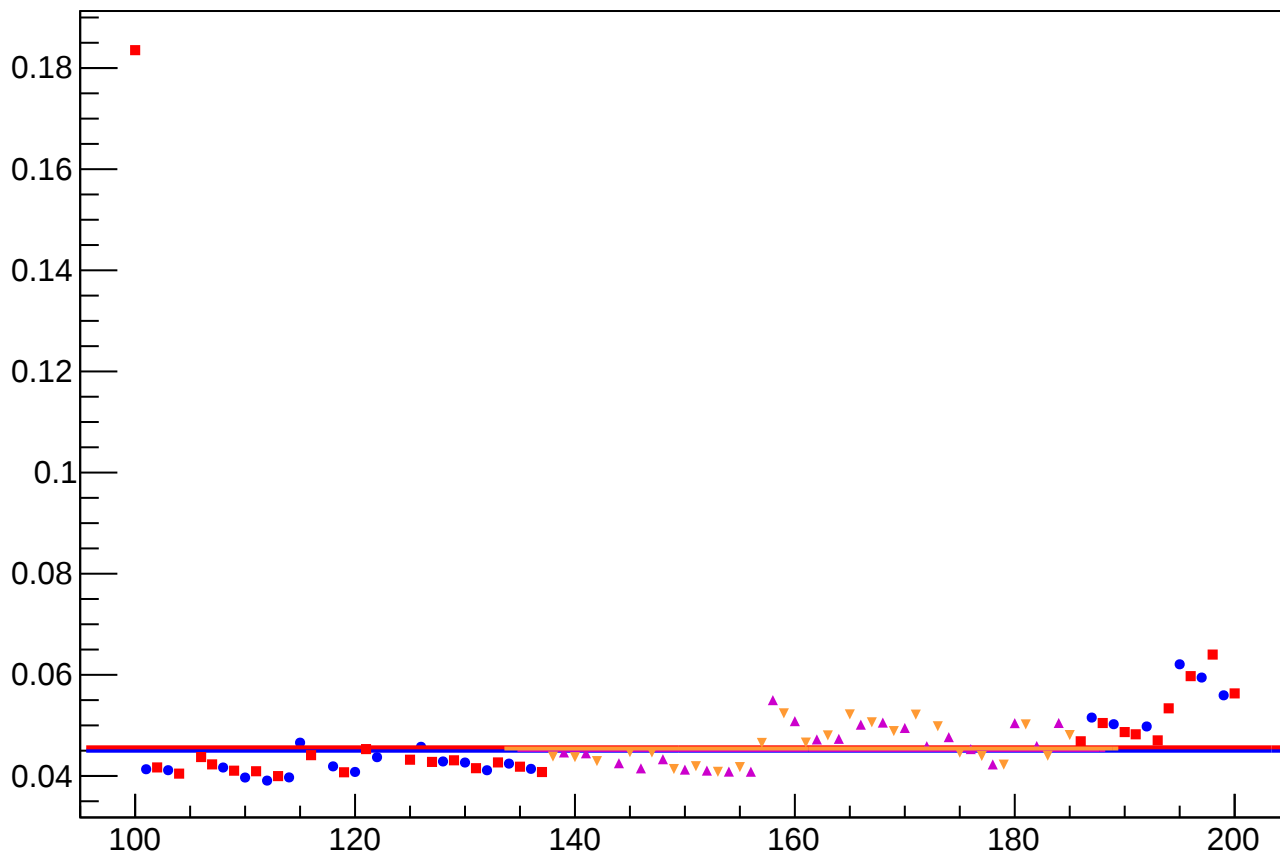
Right: 59.594+/-0.000 χ^2/NDF : 17816793651172.3/46

In: 76.209+/-0.000 χ^2/NDF : 8694022927927.2/44

Out: 71.775+/-0.000 χ^2/NDF : 12726881288285.4/50

All: 73.922+/-0.000 χ^2/NDF : 2155613851534.0/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 400415.0/21

Left Out: 0.045+/-0.000 χ^2/NDF : 206685.9/23

Right Out: 0.046+/-0.000 χ^2/NDF : 525301.7/26

Left In: 0.045+/-0.000 χ^2/NDF : 242885.4/22

Left: 0.045+/-0.000 χ^2/NDF : 450258.5/46

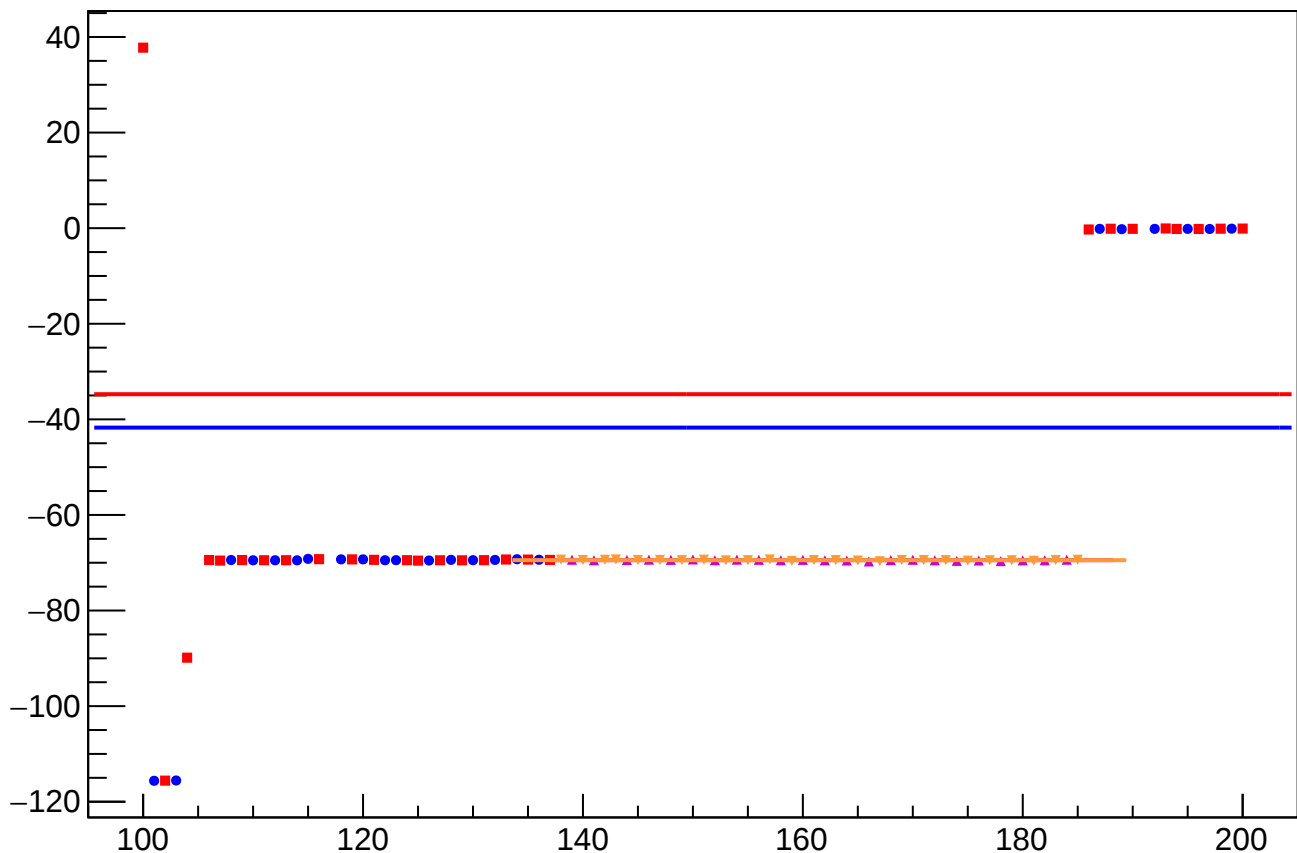
Right: 0.045+/-0.000 χ^2/NDF : 928153.5/48

In: 0.045+/-0.000 χ^2/NDF : 643440.5/44

Out: 0.046+/-0.000 χ^2/NDF : 732361.2/50

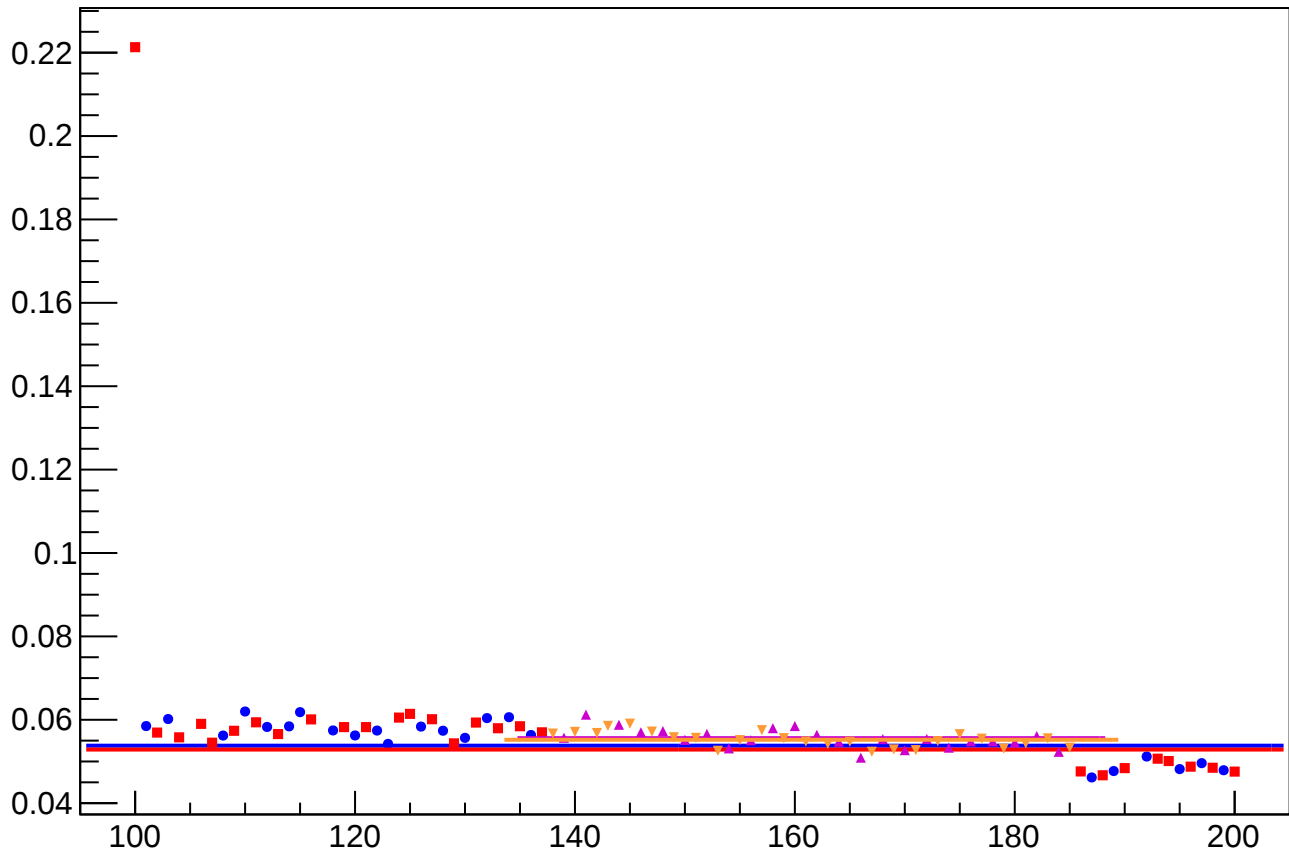
All: 0.045+/-0.000 χ^2/NDF : 1378475.5/95

yield_dsr_mean vs Slug, Sign Corrected



Right In: -41.727+/-0.000	χ^2/NDF : 5759955317293.6/22	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -37.855+/-0.000	χ^2/NDF : 12272684702096.5
Right Out: -34.738+/-0.000	χ^2/NDF : 6417167068274.7/26	In: -58.554+/-0.000	χ^2/NDF : 7408049228381.6/45
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -54.552+/-0.000	χ^2/NDF : 9435584013045.3/5
		All: -56.424+/-0.000	χ^2/NDF : 169201919632

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.054+/-0.000 χ^2/NDF : 164262.8/22

Left Out: 0.055+/-0.000 χ^2/NDF : 38761.8/24

Right Out: 0.053+/-0.000 χ^2/NDF : 287490.2/26

Left In: 0.056+/-0.000 χ^2/NDF : 52190.5/22

Left: 0.055+/-0.000 χ^2/NDF : 91784.6/47

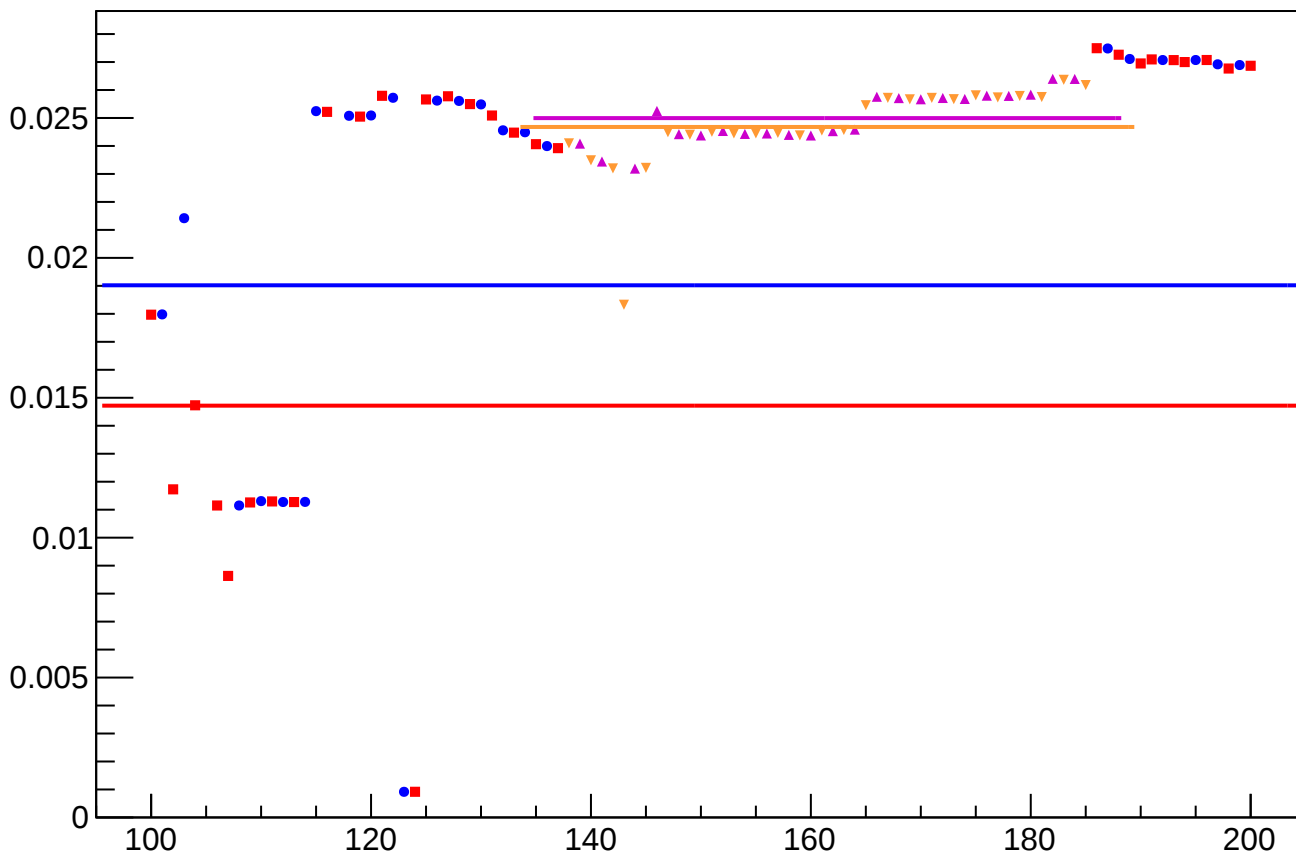
Right: 0.053+/-0.000 χ^2/NDF : 455136.5/49

In: 0.055+/-0.000 χ^2/NDF : 230411.0/45

Out: 0.054+/-0.000 χ^2/NDF : 353904.5/51

All: 0.055+/-0.000 χ^2/NDF : 588786.3/97

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.019 $\pm$ 0.000

χ^2 /NDF: 161900350745.4/22

Left: 0.025 $\pm$ 0.000

χ^2 /NDF: 12284812437.7/47

Left Out: 0.025 $\pm$ 0.000

χ^2 /NDF: 9641065555.8/24

Right: 0.016 $\pm$ 0.000

χ^2 /NDF: 547379333105.3/50

Right Out: 0.015 $\pm$ 0.000

χ^2 /NDF: 362319933965.1/27

In: 0.023 $\pm$ 0.000

χ^2 /NDF: 211593217167.4/45

Out: 0.020 $\pm$ 0.000

χ^2 /NDF: 538432017552.2/52

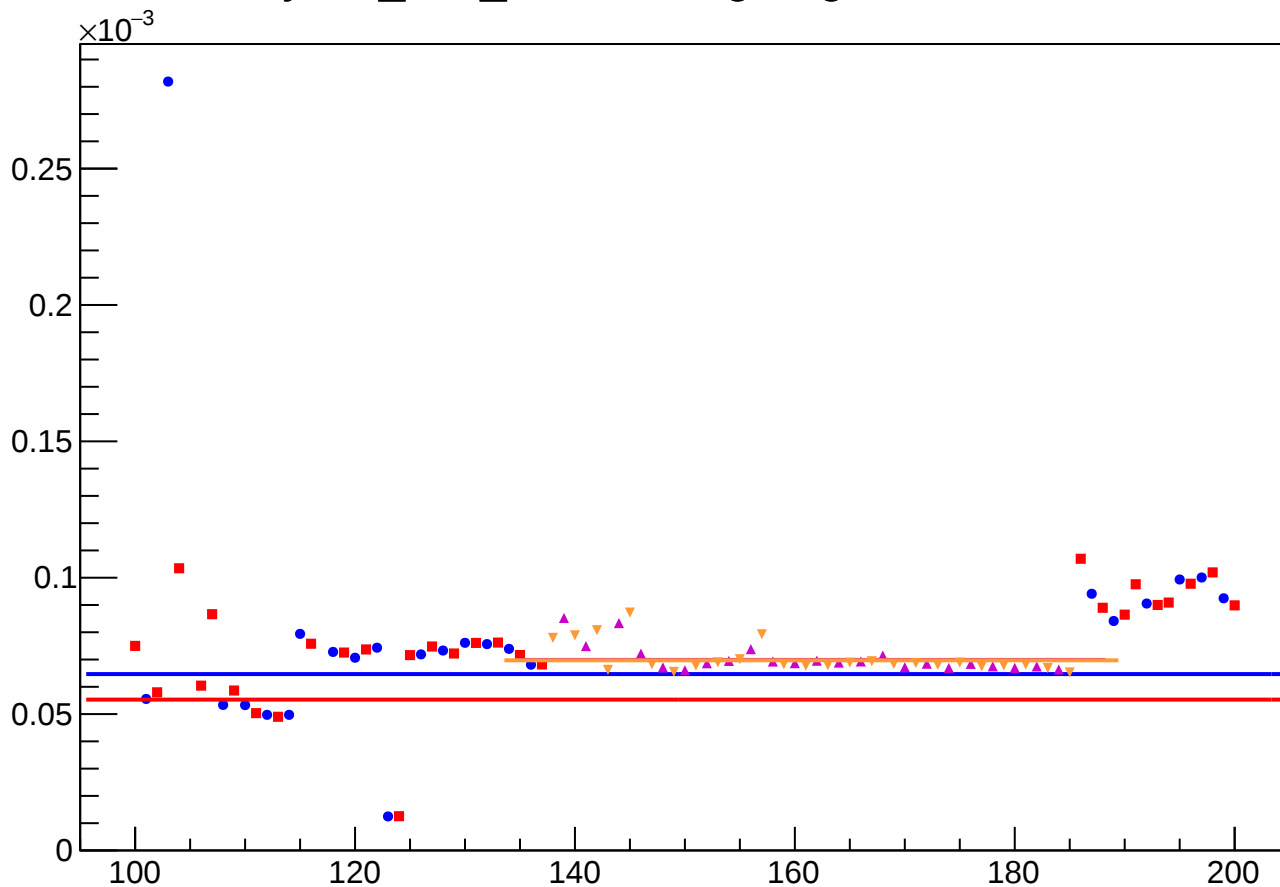
Left In: 0.025 $\pm$ 0.000

χ^2 /NDF: 2462473687.7/22

All: 0.021 $\pm$ 0.000

χ^2 /NDF: 770290157140.4

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2951466.1/22

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 6063470.1/27

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

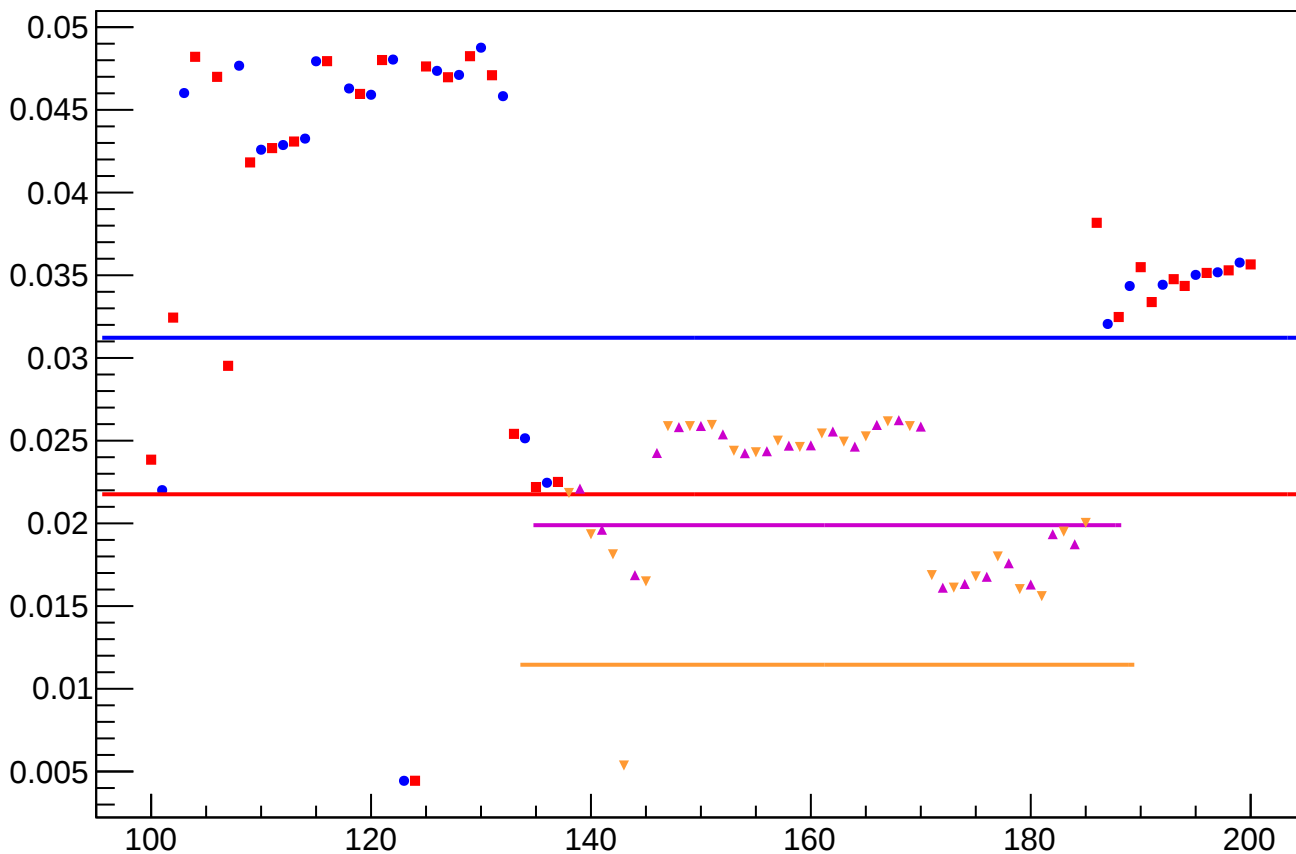
Right: 0.000+/-0.000 χ^2/NDF : 9234397.8/50

In: 0.000+/-0.000 χ^2/NDF :3151997.0/45

Out: 0.000+/-0.000 χ^2/NDF :6918543.7/52

All: 0.000+/-0.000 χ^2/NDF : 10206211.8/98

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 21232003145.4/22

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.025+/-0.000

χ^2/NDF : 68590663500.1/50

Right Out: 0.022+/-0.000

χ^2/NDF : 42830470014.0/27

In: 0.022+/-0.000

χ^2/NDF : 33853519910.0/45

Out: 0.013+/-0.000

χ^2/NDF : 95109341449.8/52

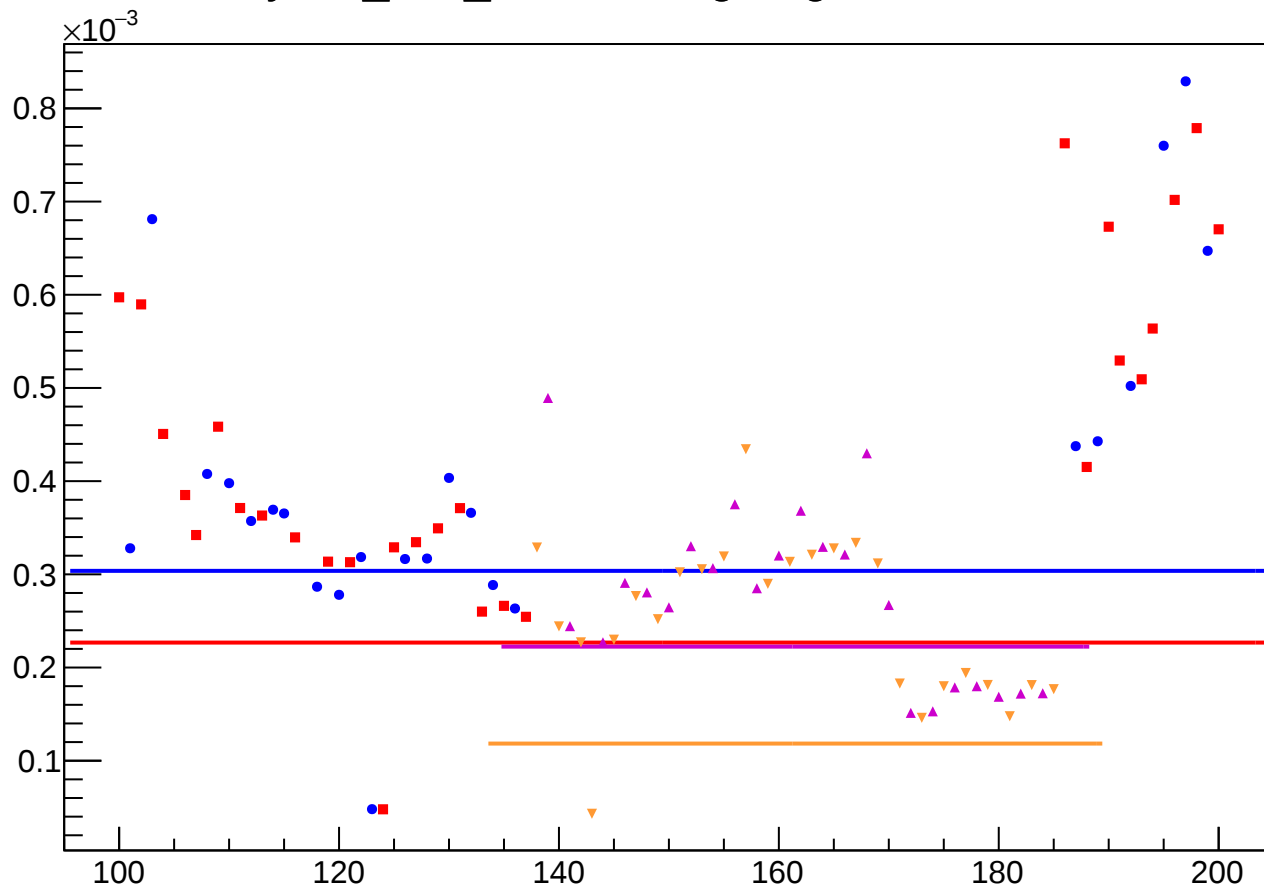
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 151293309595.3

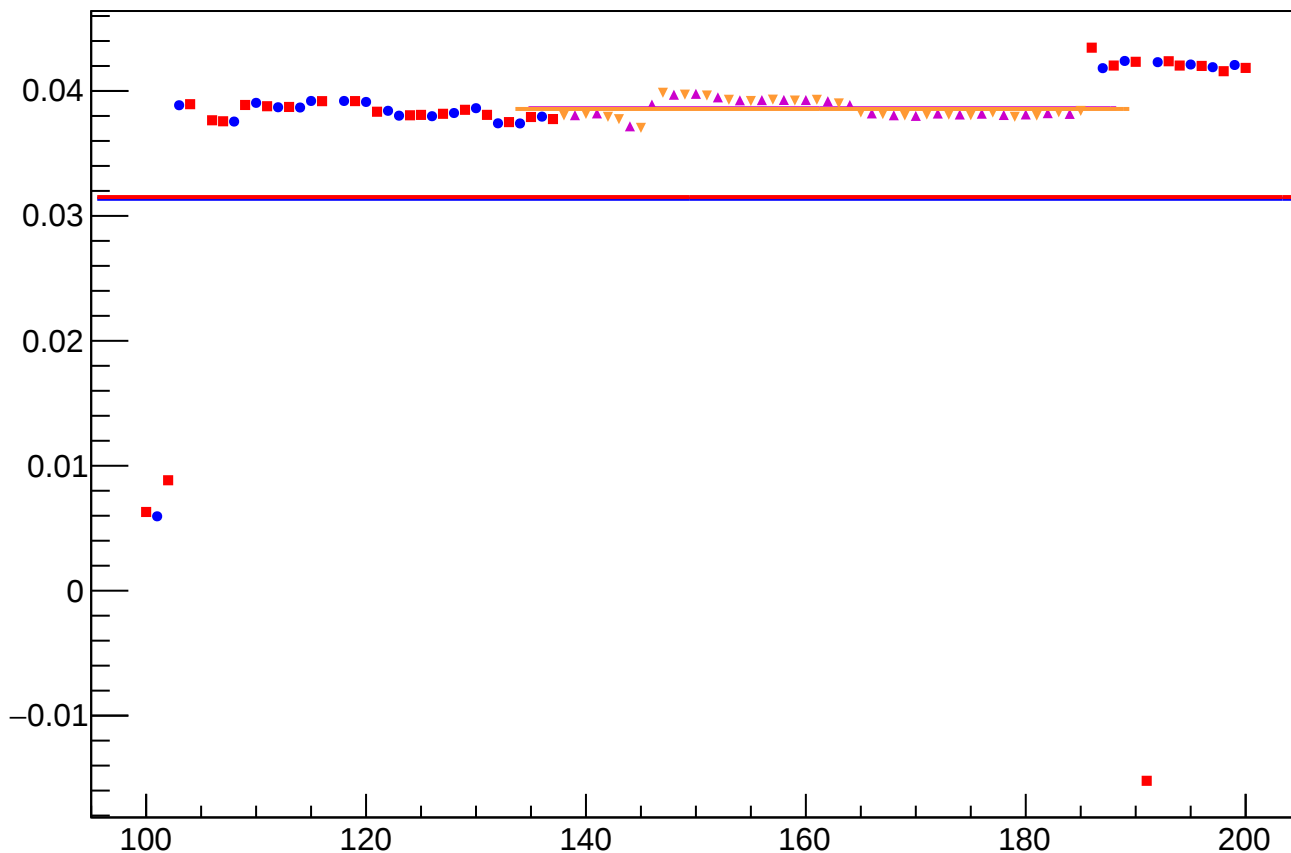
yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4583431.9/22
 Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 10189672.7/27
 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 : 15372069.3/50
 In: 0.000+/-0.000 χ^2/NDF :8705014.2/45
 Out: 0.000+/-0.000 χ^2/NDF :26403535.9/52
 All: 0.000+/-0.000 χ^2/NDF : 40789436.3/98

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 106192521036.3/22

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.031+/-0.000

χ^2/NDF : 280606244253.0/50

Right Out: 0.032+/-0.000

χ^2/NDF : 174408273689.1/27

In: 0.036+/-0.000

χ^2/NDF : 125221027810.5/45

Out: 0.036+/-0.000

χ^2/NDF : 193946873720.8/52

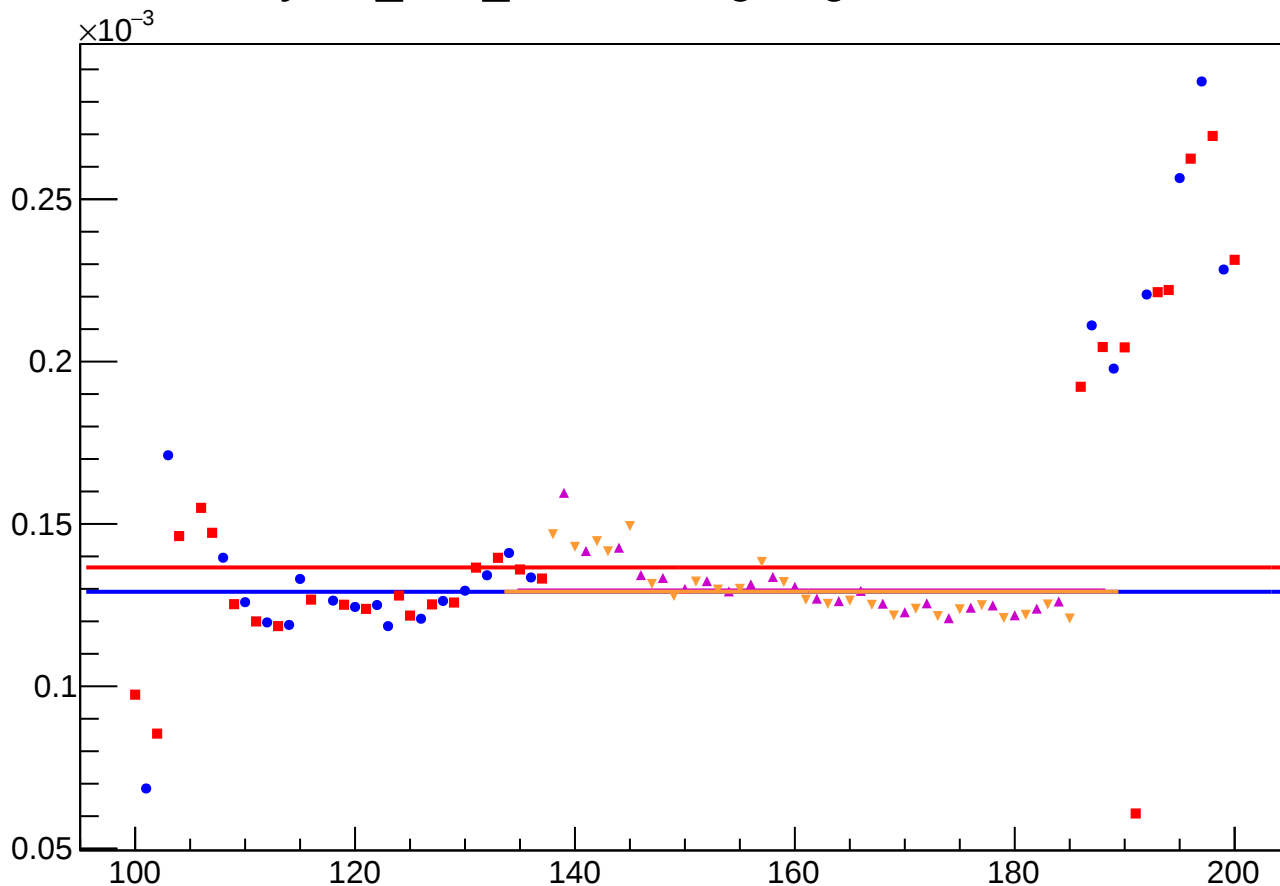
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.036+/-0.000

χ^2/NDF : 319169048246.1

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2595449.9/22

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 2760267.9/27

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

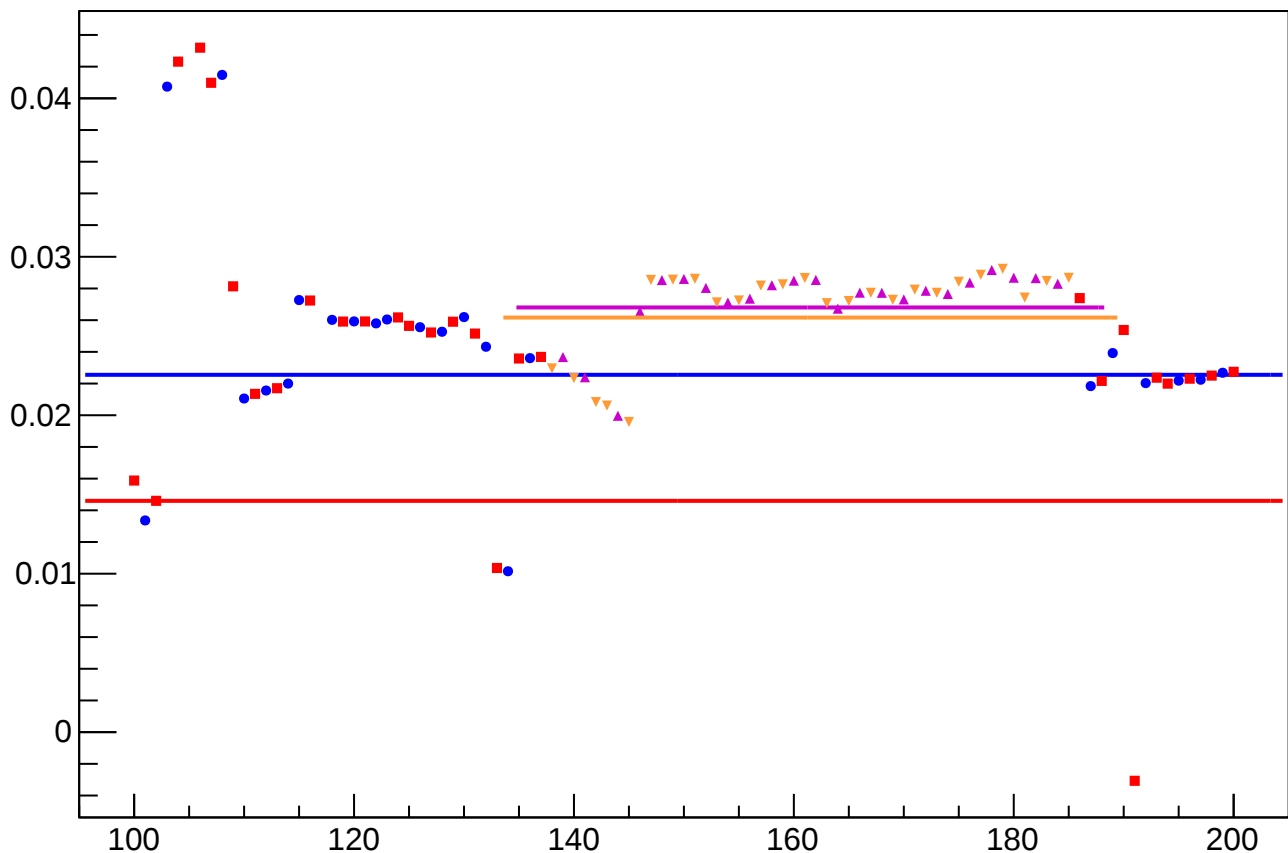
Right: 0.000+/-0.000 χ^2/NDF : 5387476.5/50

In: 0.000+/-0.000 χ^2/NDF :2710339.2/45

Out: 0.000+/-0.000 χ^2/NDF :2933049.7/52

All: 0.000+/-0.000 χ^2/NDF : 5652714.7/98

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000

χ^2/NDF : 4244177566.4/22

Left: 0.026+/-0.000

χ^2/NDF : 3427924441.4/47

Left Out: 0.026+/-0.000

χ^2/NDF : 2056710635.1/24

Right: 0.018+/-0.000

χ^2/NDF : 39098969123.3/50

Right Out: 0.015+/-0.000

χ^2/NDF : 30858893088.3/27

In: 0.025+/-0.000

χ^2/NDF : 6779376416.8/45

Out: 0.021+/-0.000

χ^2/NDF : 44865738963.9/52

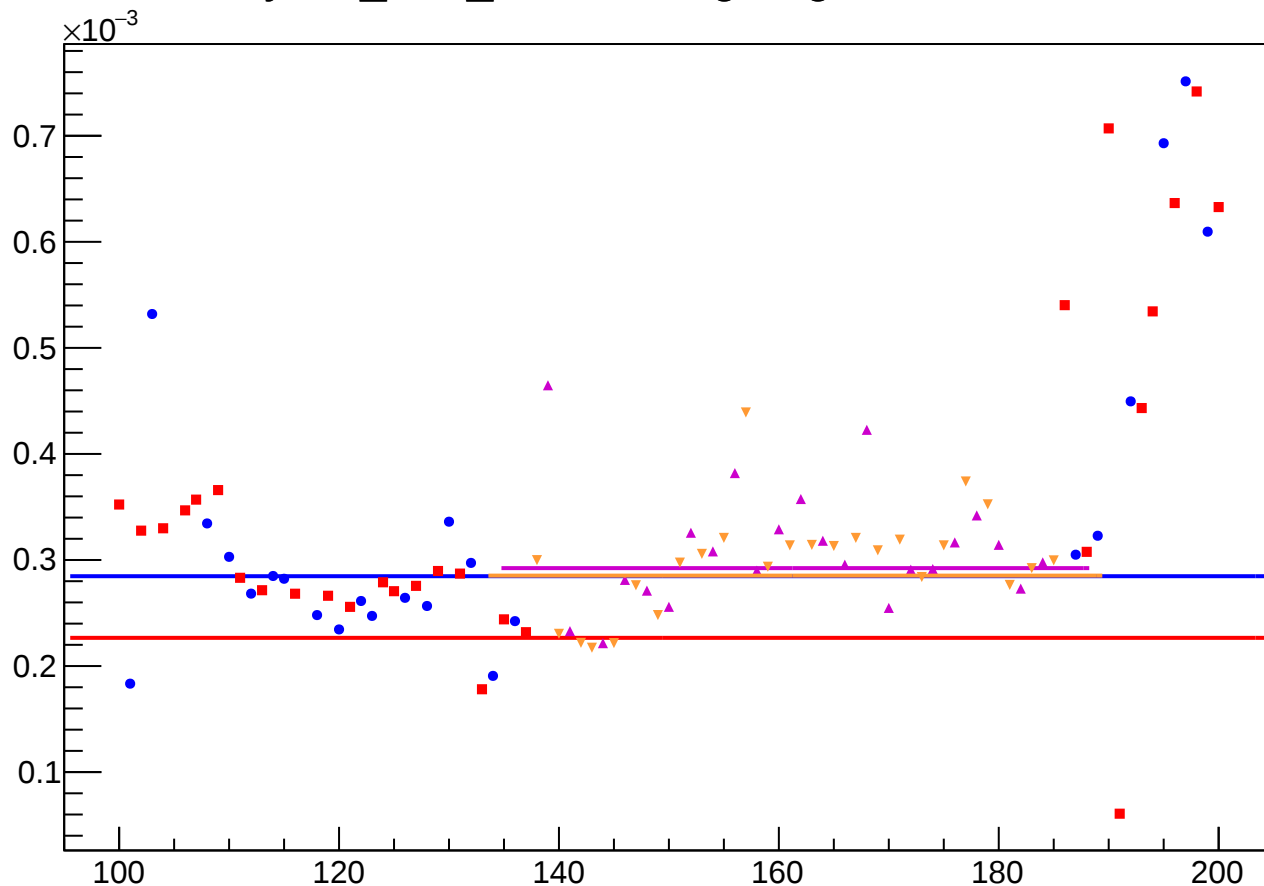
Left In: 0.027+/-0.000

χ^2/NDF : 1332033607.7/22

All: 0.023+/-0.000

χ^2/NDF : 54525923081.1/9

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2598012.5/22

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7241812.1/27

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

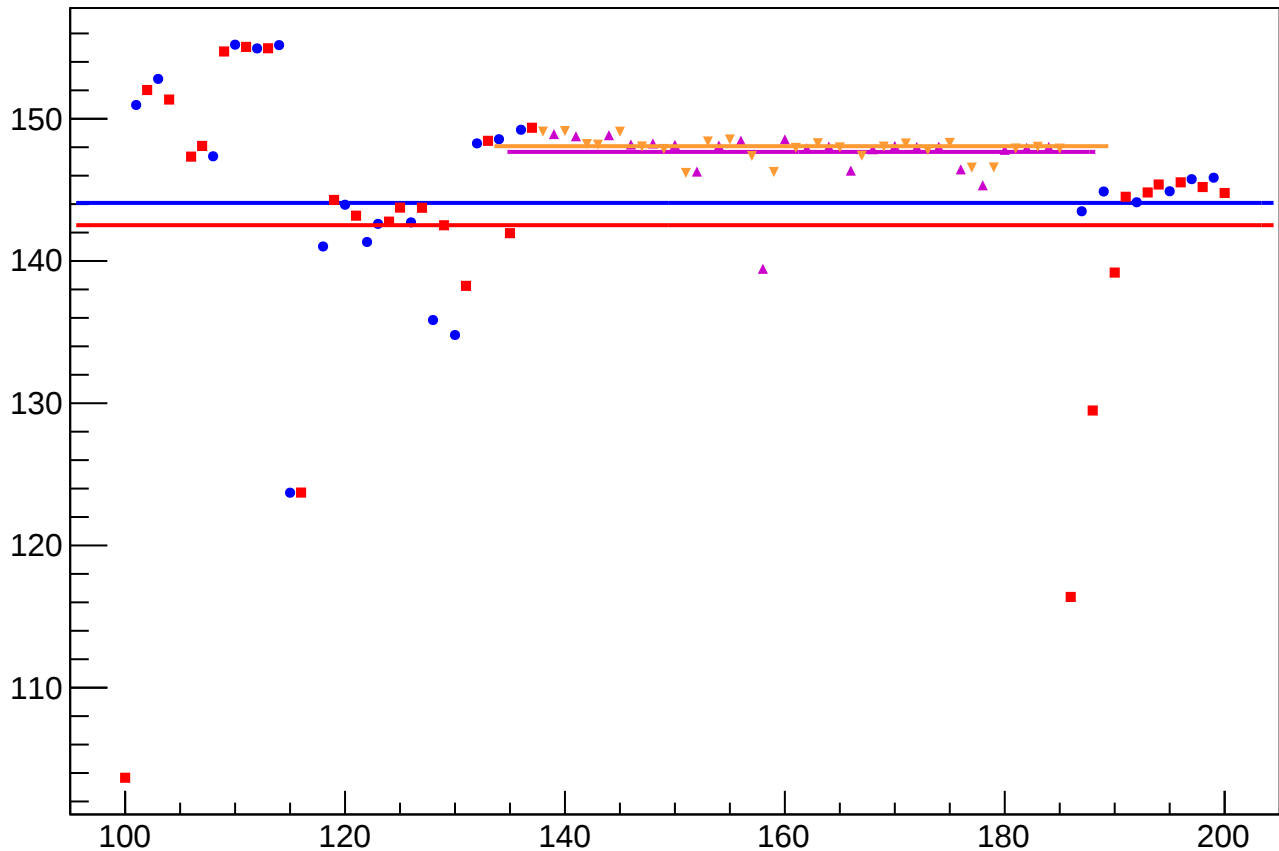
Right: 0.000+/-0.000 χ^2/NDF : 10266478.7/50

In: 0.000+/-0.000 χ^2/NDF :3504527.3/45

Out: 0.000+/-0.000 χ^2/NDF :8670189.4/52

All: 0.000+/-0.000 χ^2/NDF : 12470472.3/98

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.085 $\pm$ 0.000 χ^2 /NDF: 3472798485.4/22

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.519 $\pm$ 0.000 χ^2 /NDF: 7365883090.5/27

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

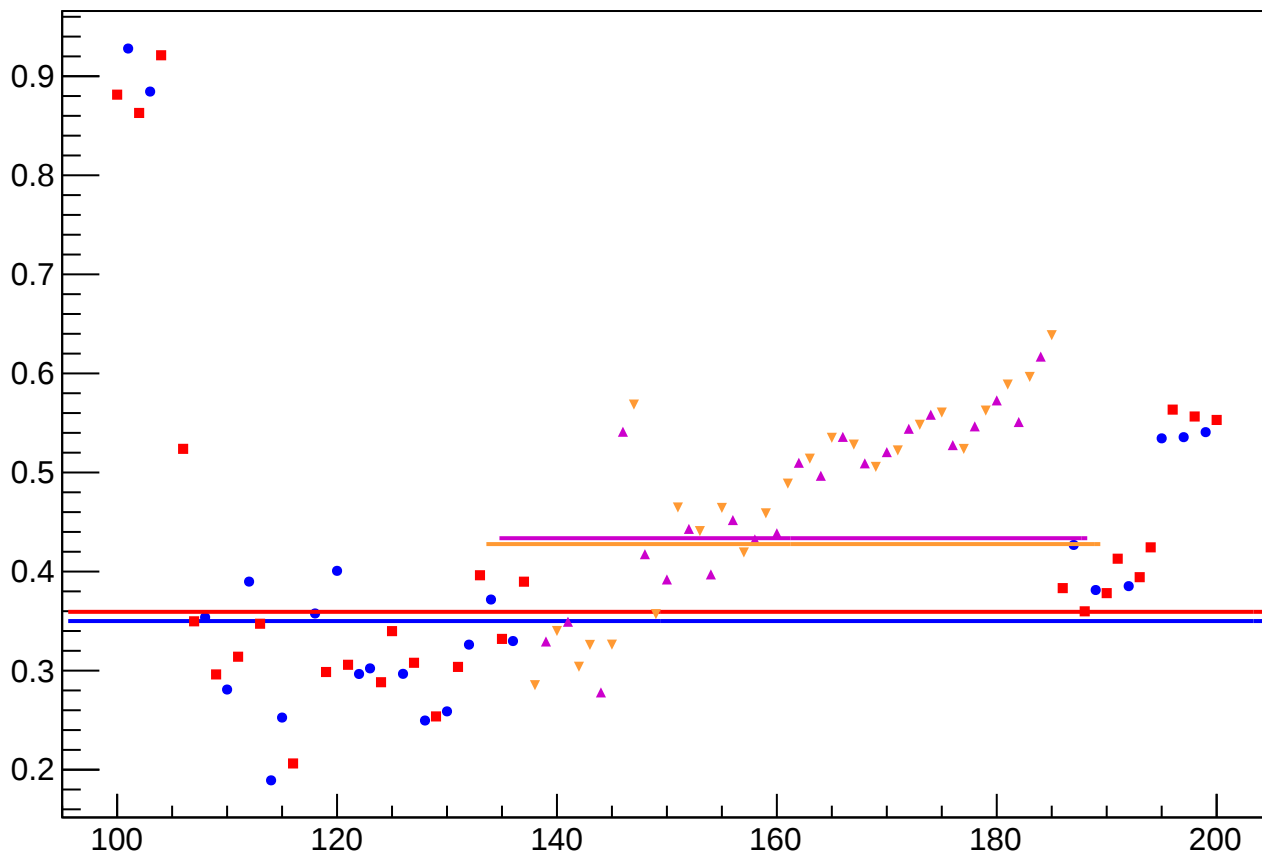
Right: 143.235 $\pm$ 0.000 χ^2 /NDF: 10935234433.7/50

In: 146.034 $\pm$ 0.000 χ^2 /NDF: 4325111233.6/45

Out: 145.401 $\pm$ 0.000 χ^2 /NDF: 8808656790.6/52

All: 145.699 $\pm$ 0.000 χ^2 /NDF: 13167579392.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.350+/-0.000 χ^2/NDF : 1965827.9/22

Left Out: 0.428+/-0.000 χ^2/NDF :1896808.7/24

Right Out: 0.359+/-0.000 χ^2/NDF : 2036074.3/27

Left In: 0.434+/-0.000 χ^2/NDF :1496343.5/22

Left: 0.431+/-0.000 χ^2/NDF : 3396308.8/47

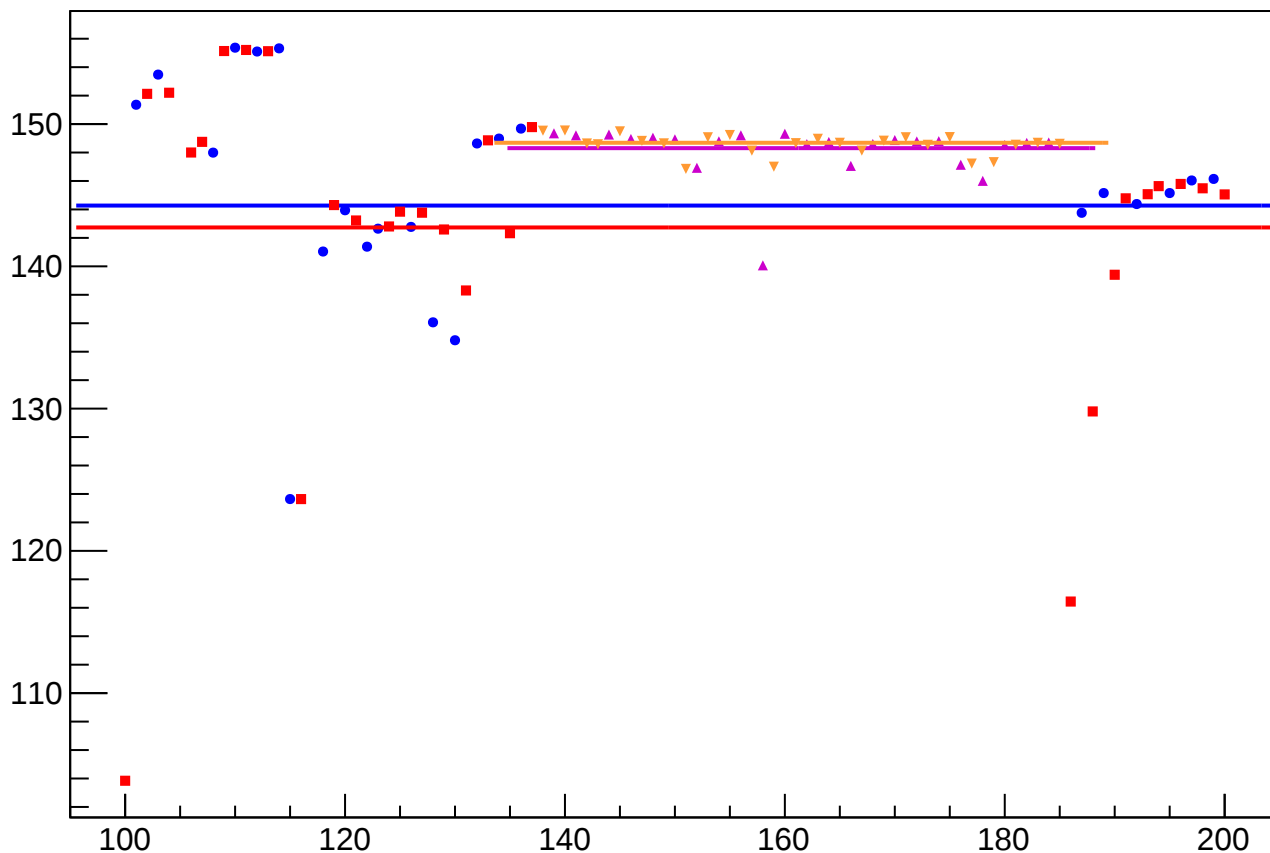
Right: 0.355+/-0.000 χ^2/NDF : 4008735.5/50

In: 0.396+/-0.000 χ^2/NDF :4014014.5/45

Out: 0.395+/-0.000 χ^2/NDF :4350338.7/52

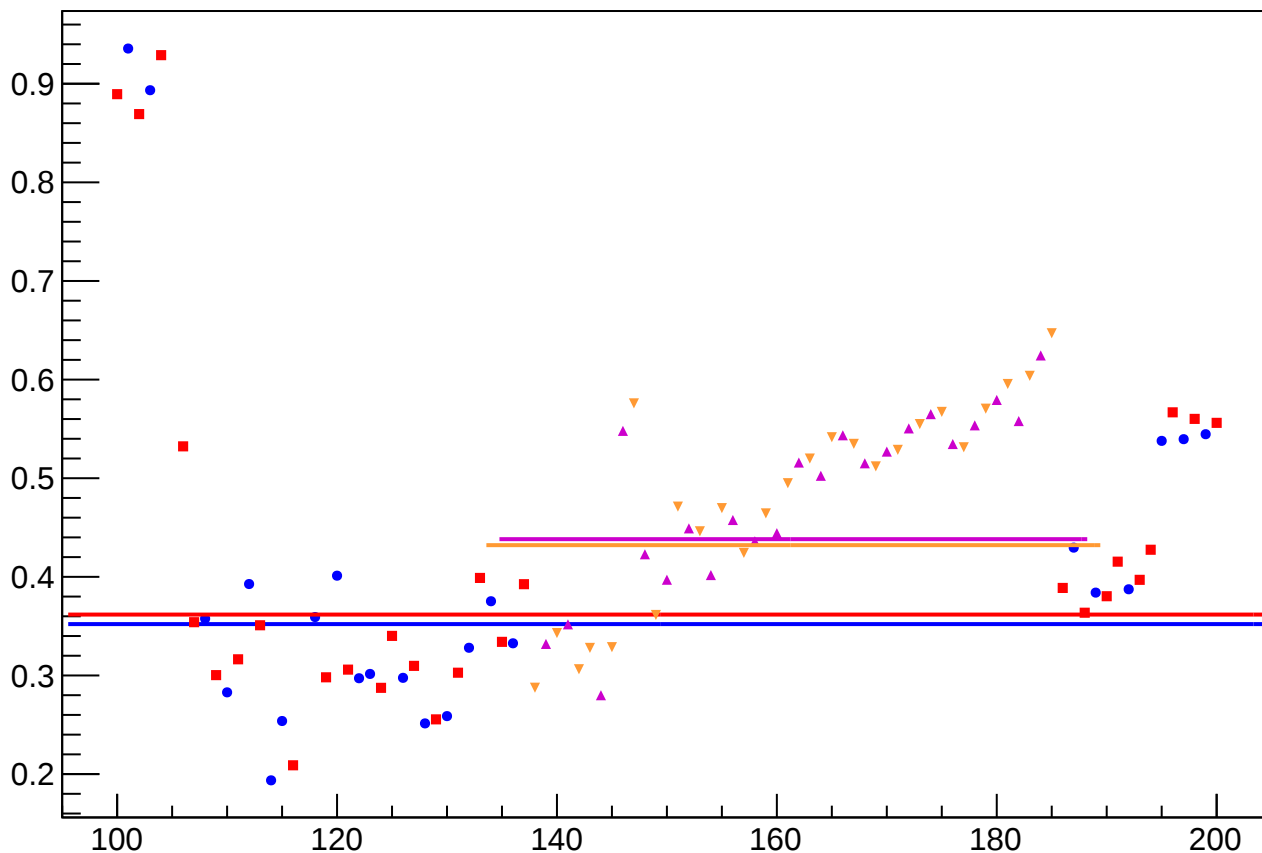
All: 0.395+/-0.000 χ^2/NDF : 8364430.6/98

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.272 $\pm$ 0.000	χ^2 /NDF: 3519985805.1/22	Left: 148.504 $\pm$ 0.000	χ^2 /NDF: 392094013.2/47
Left Out: 148.686 $\pm$ 0.000	χ^2 /NDF: 52218185.1/24	Right: 143.438 $\pm$ 0.000	χ^2 /NDF: 10924604336.4/50
Right Out: 142.733 $\pm$ 0.000	χ^2 /NDF: 7312574166.8/27	In: 146.456 $\pm$ 0.000	χ^2 /NDF: 4485635888.7/45
Left In: 148.307 $\pm$ 0.000	χ^2 /NDF: 333585558.2/22	Out: 145.810 $\pm$ 0.000	χ^2 /NDF: 8919978585.7/52
		All: 146.114 $\pm$ 0.000	χ^2 /NDF: 13440155633.0/100

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.352 $\pm$ 0.000 χ^2 /NDF: 1970178.4/22

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.362 $\pm$ 0.000 χ^2 /NDF: 2039906.7/27

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

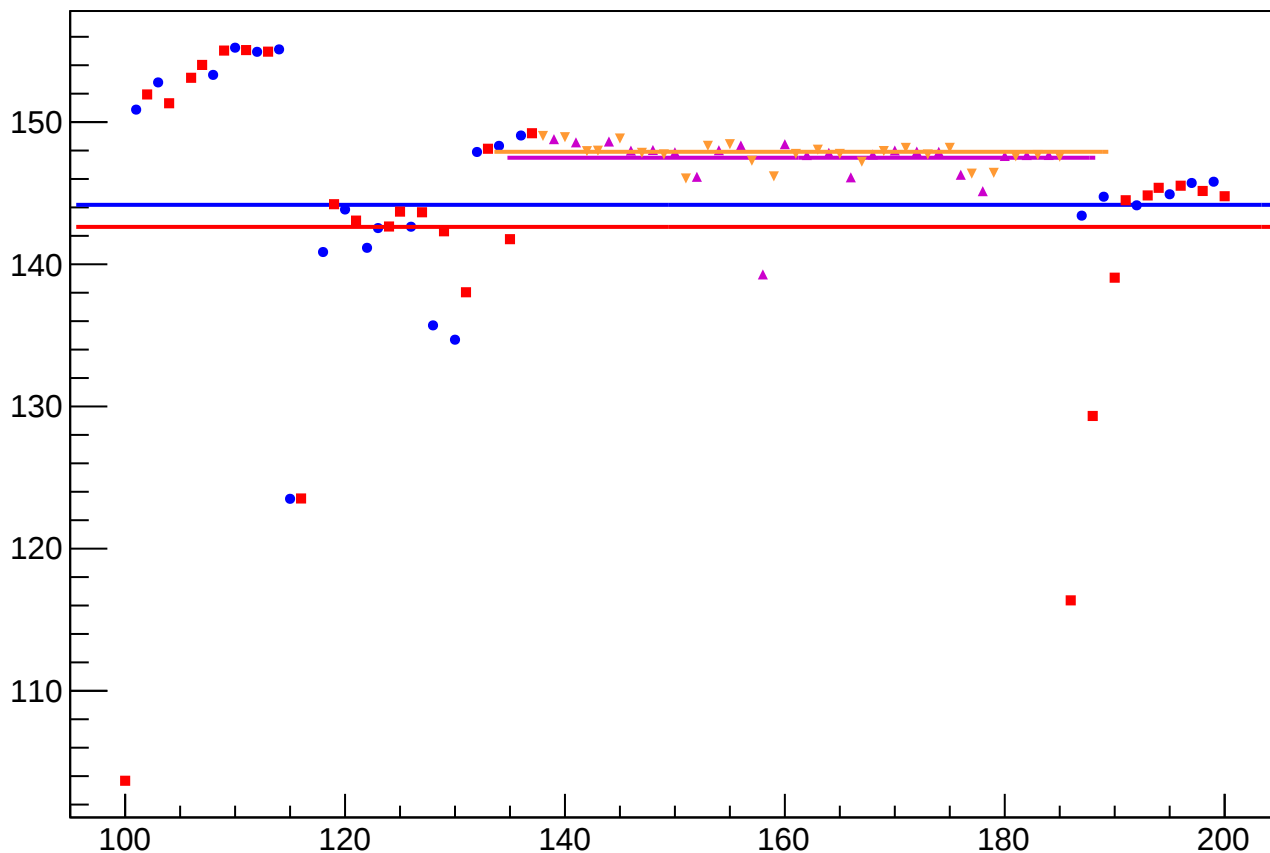
Right: 0.357 $\pm$ 0.000 χ^2 /NDF: 4017339.5/50

In: 0.399 $\pm$ 0.000 χ^2 /NDF:4067829.7/45

Out: 0.398 $\pm$ 0.000 χ^2 /NDF:4403685.6/52

All: 0.398 $\pm$ 0.000 χ^2 /NDF: 8471571.0/98

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.181 $\pm$ 0.000

χ^2 /NDF: 3681941982.7/22

Left: 147.709 $\pm$ 0.000

χ^2 /NDF: 416149781.4/47

Left Out: 147.911 $\pm$ 0.000

χ^2 /NDF: 64412407.9/24

Right: 143.340 $\pm$ 0.000

χ^2 /NDF: 11524607869.9/50

Right Out: 142.630 $\pm$ 0.000

χ^2 /NDF: 7748632712.4/27

In: 145.982 $\pm$ 0.000

χ^2 /NDF: 4455791717.0/45

Out: 145.371 $\pm$ 0.000

χ^2 /NDF: 9047554857.0/52

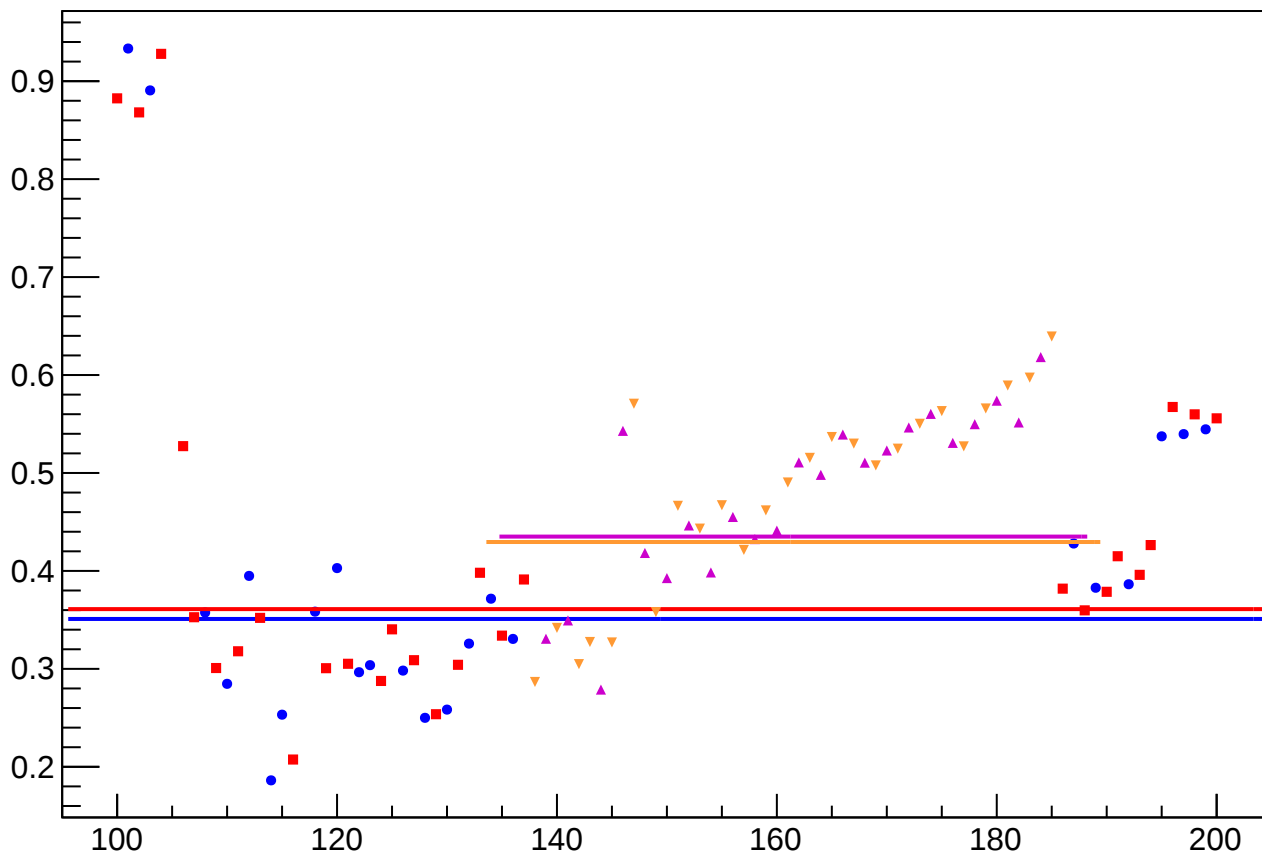
Left In: 147.493 $\pm$ 0.000

χ^2 /NDF: 343978473.2/22

All: 145.659 $\pm$ 0.000

χ^2 /NDF: 13534562531.0/100

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.351 $\pm$ 0.000 χ^2 /NDF: 1990074.5/22

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.361 $\pm$ 0.000 χ^2 /NDF: 2040068.3/27

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

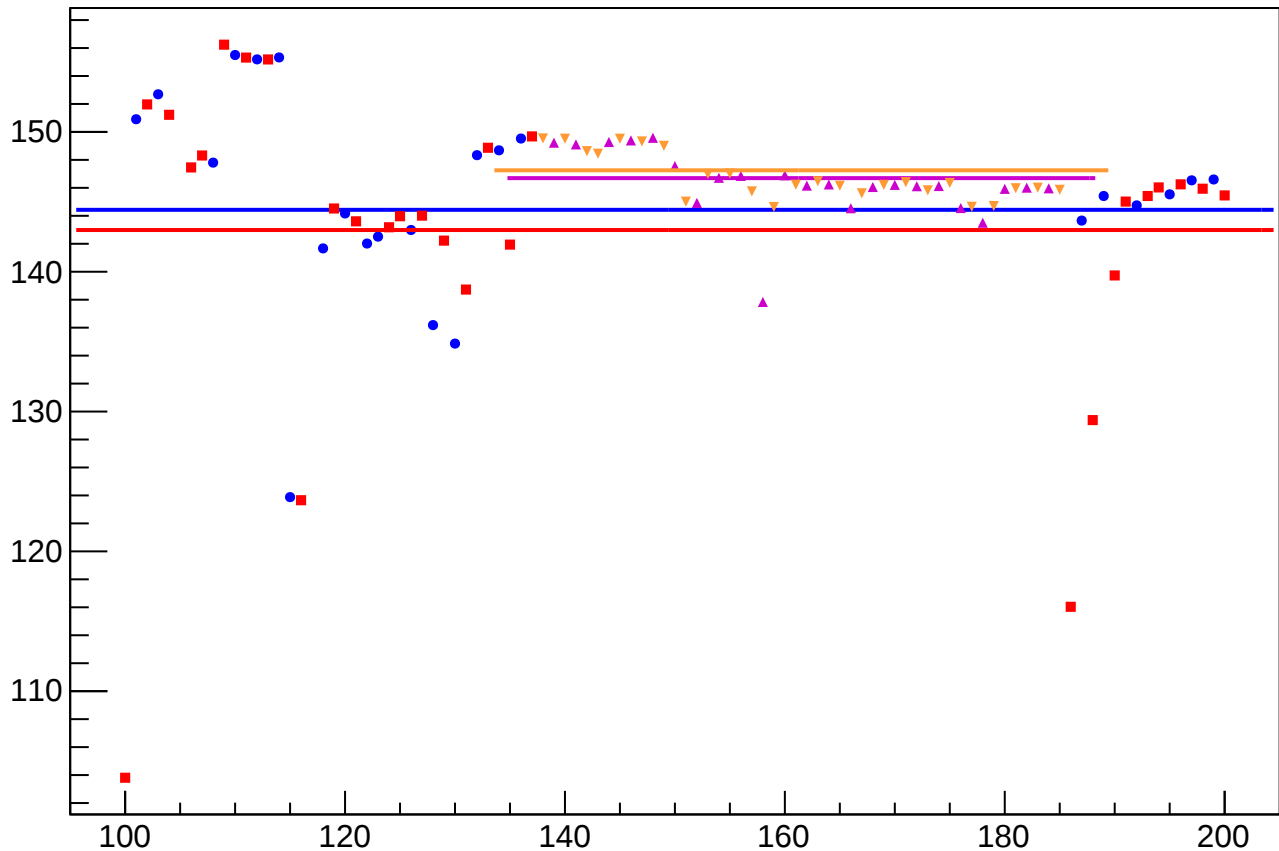
Right: 0.356 $\pm$ 0.000 χ^2 /NDF: 4038037.2/50

In: 0.397 $\pm$ 0.000 χ^2 /NDF:4047106.3/45

Out: 0.397 $\pm$ 0.000 χ^2 /NDF:4351232.1/52

All: 0.397 $\pm$ 0.000 χ^2 /NDF: 8398340.8/98

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.429 $\pm$ 0.000 χ^2 /NDF: 3197063204.3/22

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 142.983 $\pm$ 0.000 χ^2 /NDF: 7073801222.9/27

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

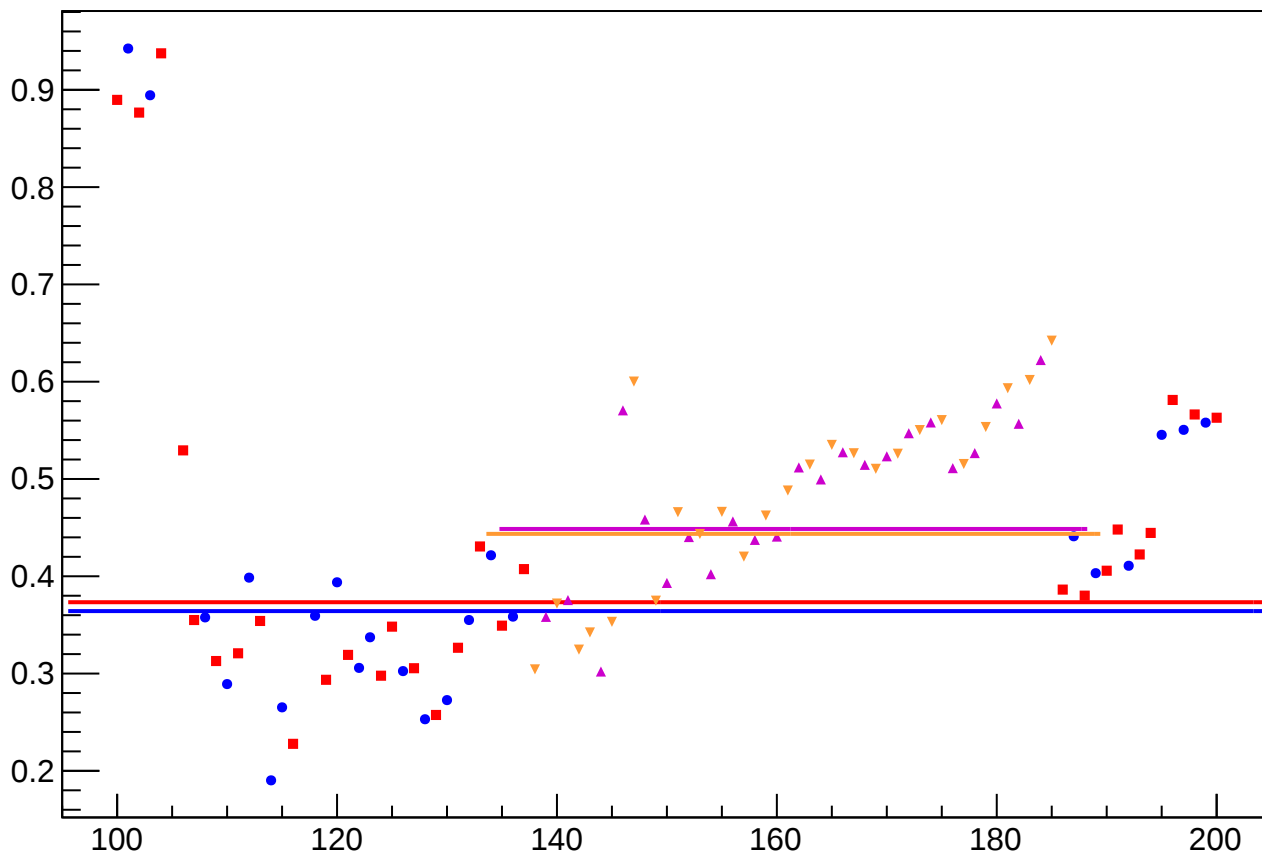
Right: 143.643 $\pm$ 0.000 χ^2 /NDF: 10346720265.3/50

In: 145.675 $\pm$ 0.000 χ^2 /NDF: 3943684964.6/45

Out: 145.216 $\pm$ 0.000 χ^2 /NDF: 8094451565.7/52

All: 145.432 $\pm$ 0.000 χ^2 /NDF: 12054690181.1

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.364 $\pm$ 0.000 χ^2 /NDF: 1950464.9/22

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.373 $\pm$ 0.000 χ^2 /NDF: 1993651.8/27

Left In: 0.449 $\pm$ 0.000 χ^2 /NDF:1132620.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2618207.6/47

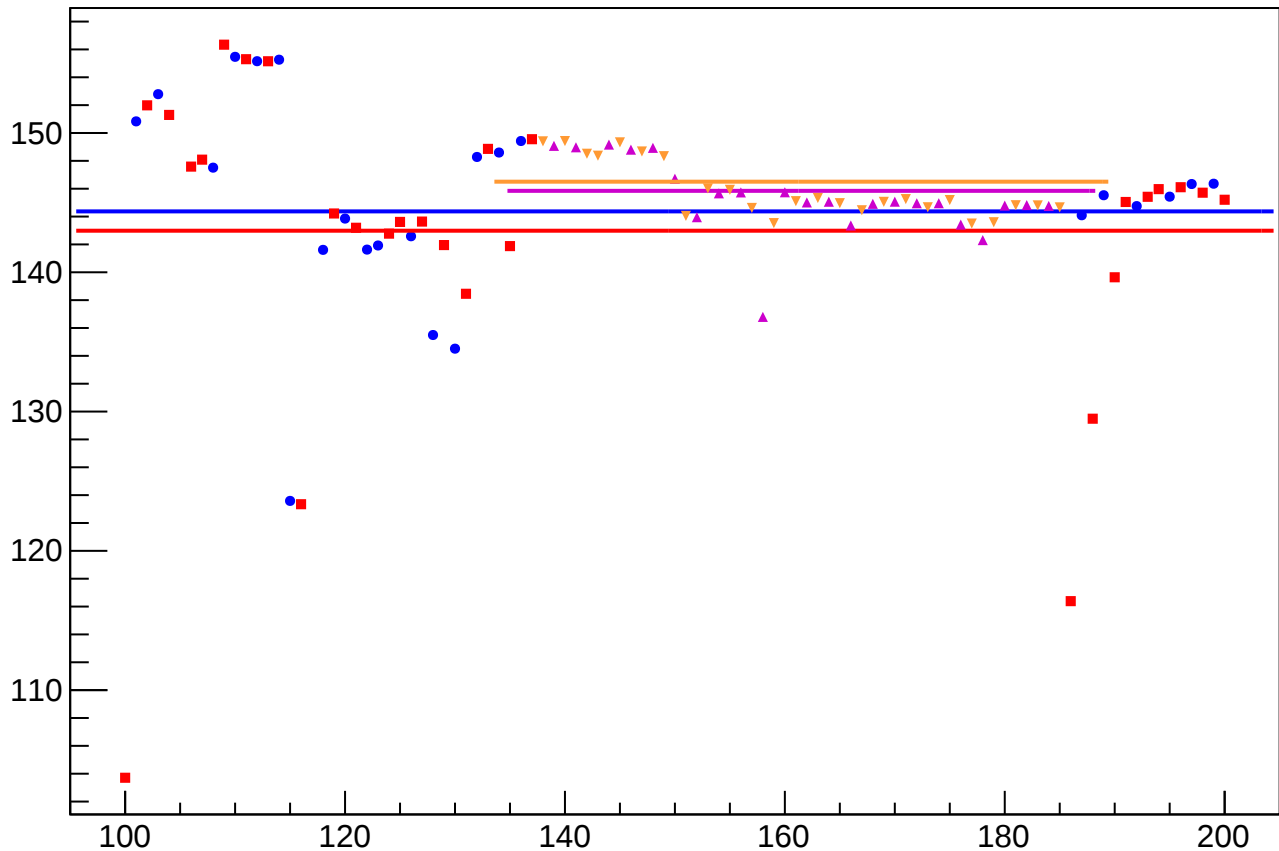
Right: 0.369 $\pm$ 0.000 χ^2 /NDF: 3950159.4/50

In: 0.411 $\pm$ 0.000 χ^2 /NDF:3606687.2/45

Out: 0.410 $\pm$ 0.000 χ^2 /NDF:3887378.4/52

All: 0.410 $\pm$ 0.000 χ^2 /NDF: 7494119.0/98

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.372 $\pm$ 0.000 χ^2 /NDF: 3313050010.1/22

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 142.984 $\pm$ 0.000 χ^2 /NDF: 7037945155.1/27

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

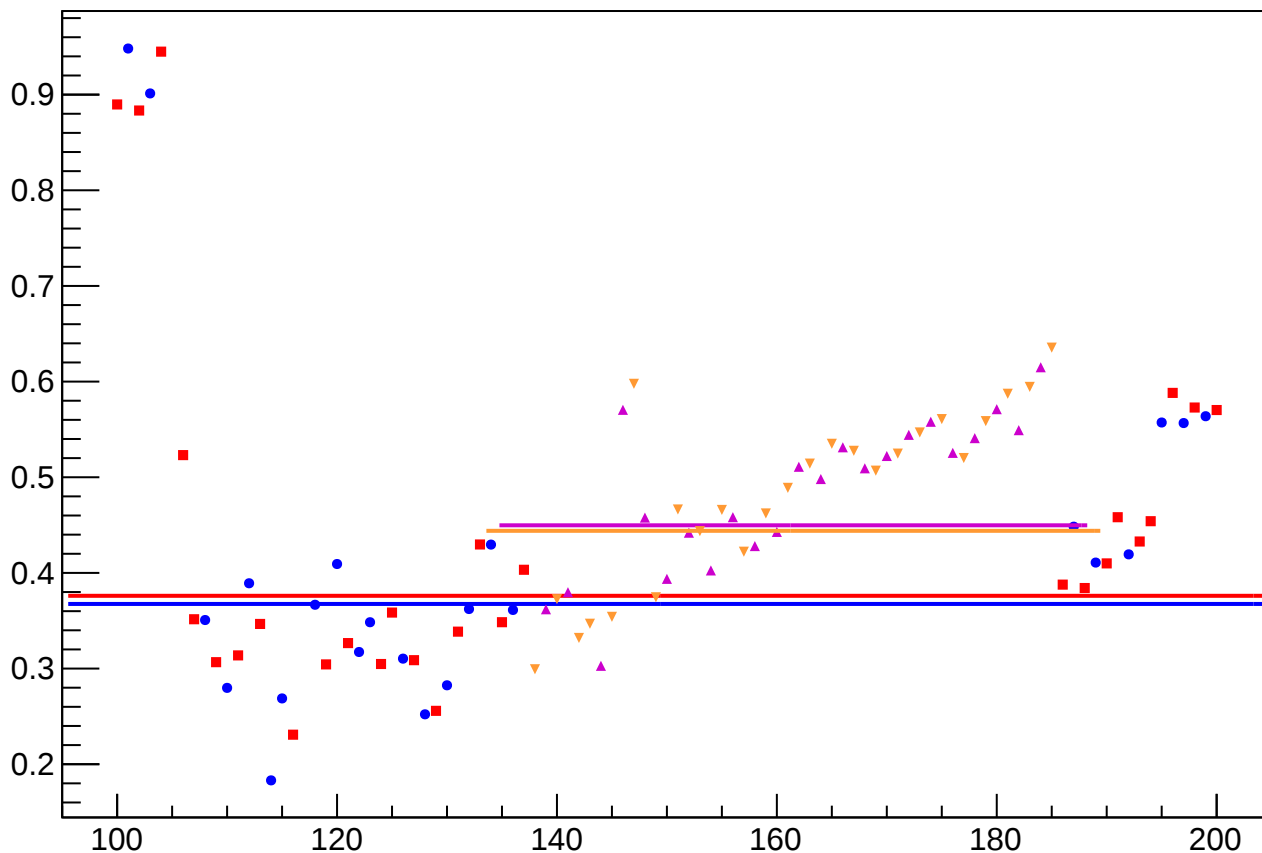
Right: 143.616 $\pm$ 0.000 χ^2 /NDF: 10419436681.3/50

In: 145.189 $\pm$ 0.000 χ^2 /NDF: 4086536111.6/45

Out: 144.839 $\pm$ 0.000 χ^2 /NDF: 7949441054.8/52

All: 145.003 $\pm$ 0.000 χ^2 /NDF: 12045521413.0

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.368 $\pm$ 0.000 χ^2 /NDF: 1987897.8/22

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.376 $\pm$ 0.000 χ^2 /NDF: 2013387.0/27

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

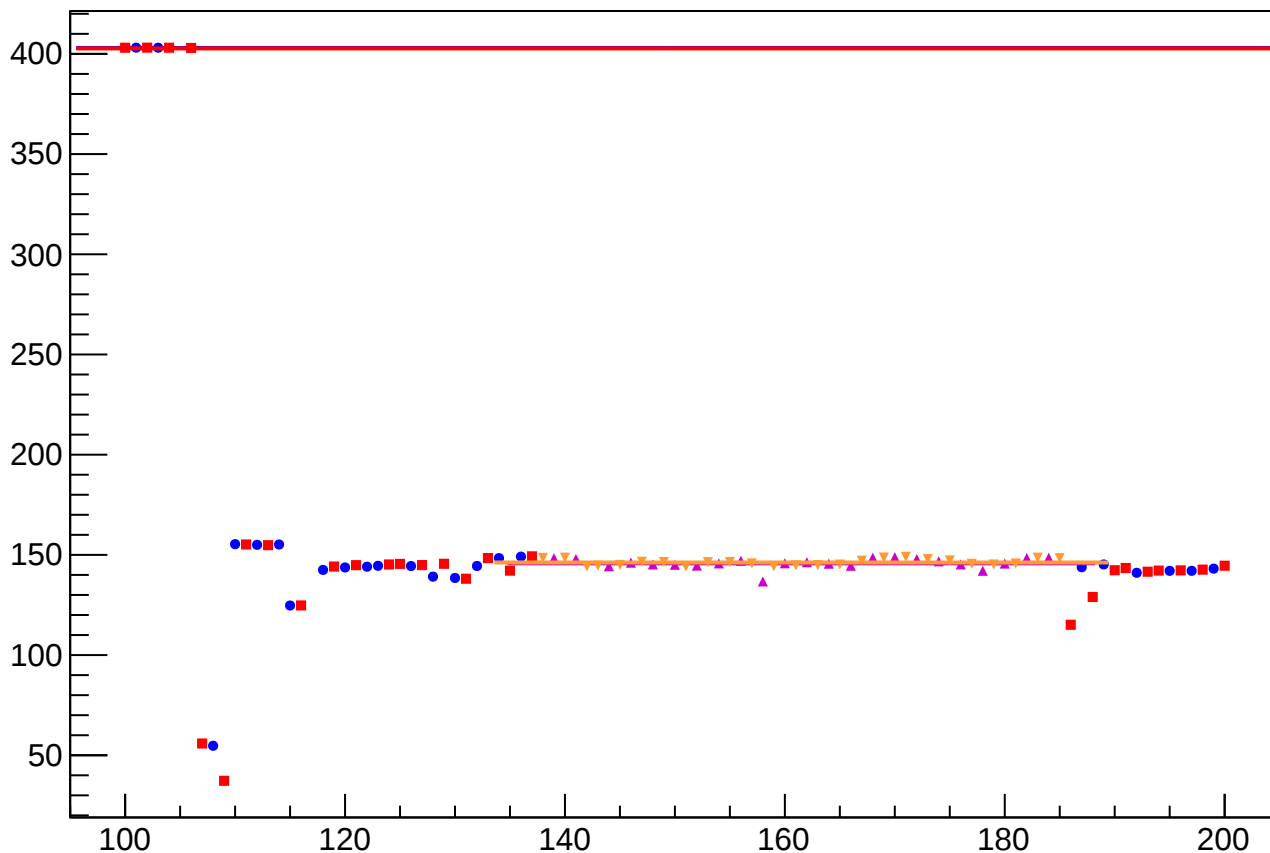
Right: 0.372 $\pm$ 0.000 χ^2 /NDF: 4006443.7/50

In: 0.413 $\pm$ 0.000 χ^2 /NDF:3582545.5/45

Out: 0.412 $\pm$ 0.000 χ^2 /NDF:3856420.2/52

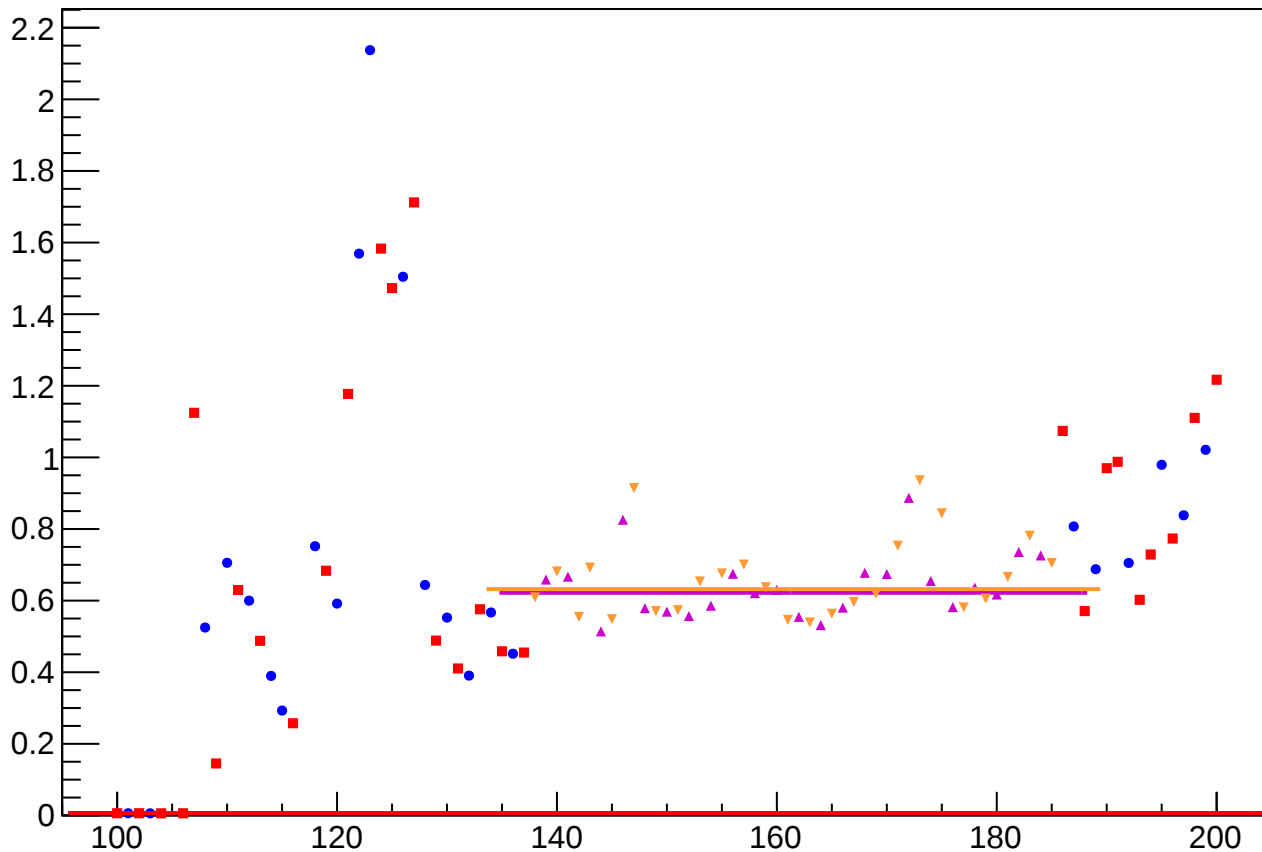
All: 0.412 $\pm$ 0.000 χ^2 /NDF: 7439217.2/98

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.921+/-0.000	χ^2/NDF : 1389424704569.5/22	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.823+/-0.000	χ^2/NDF : 5068971530399.1
Right Out: 402.737+/-0.000	χ^2/NDF : 3678986281398.8/27	In: 402.628+/-0.000	χ^2/NDF : 3738793204813.2/45
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.475+/-0.000	χ^2/NDF : 6047230286057.1/5
		All: 402.547+/-0.000	χ^2/NDF : 978640906676

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 14973560.7/22

Left Out: 0.632+/-0.000 χ^2/NDF :614155.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 18699170.0/27

Left In: 0.622+/-0.000 χ^2/NDF :404479.0/22

Left: 0.627+/-0.000 χ^2/NDF : 1022337.9/47

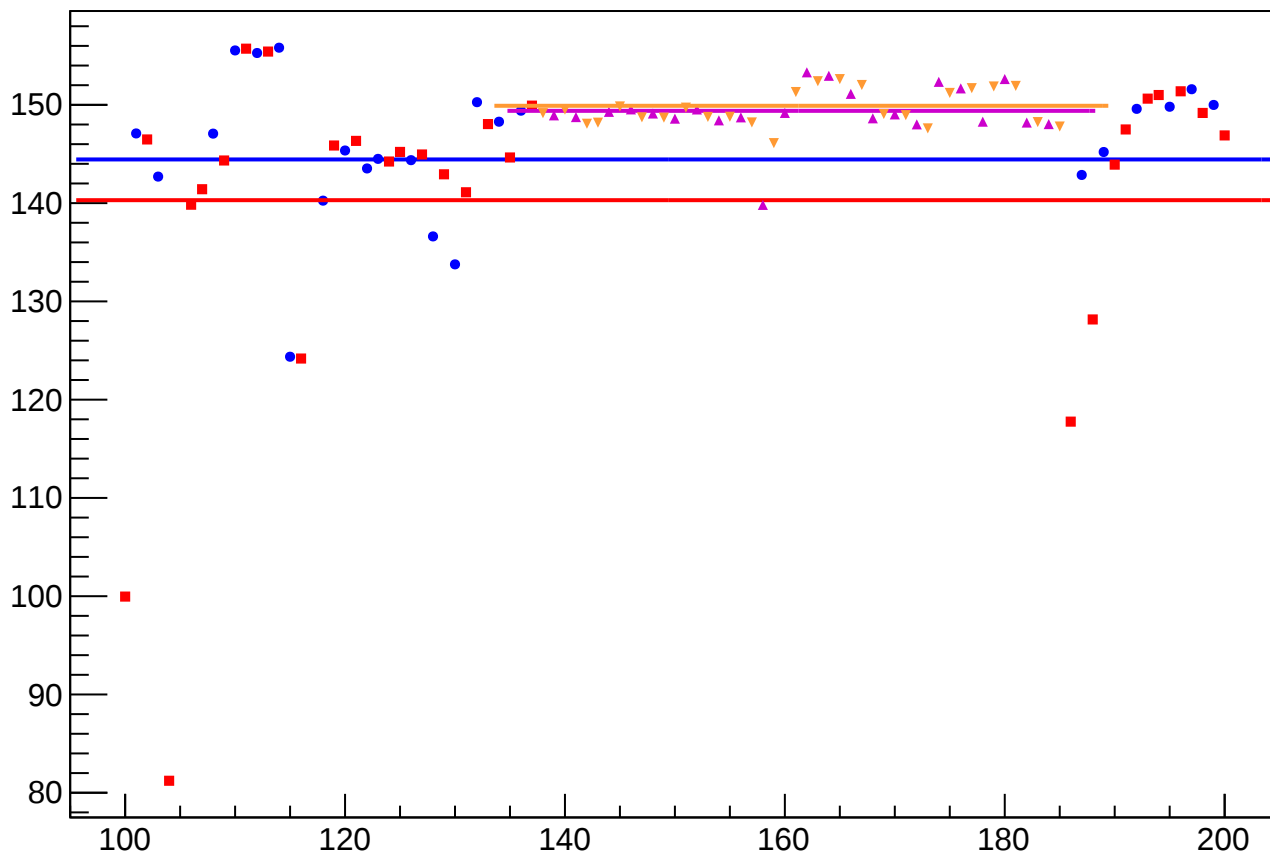
Right: 0.006+/-0.000 χ^2/NDF : 33672803.5/50

In: 0.007+/-0.000 χ^2/NDF :42294279.5/45

Out: 0.007+/-0.000 χ^2/NDF :47482216.2/52

All: 0.007+/-0.000 χ^2/NDF : 89776504.8/98

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 144.445 $\pm$ 0.000

χ^2/NDF : 1220248884.2/22

Left: 149.657 $\pm$ 0.000

χ^2/NDF : 606930259.3/47

Left Out: 149.906 $\pm$ 0.000

χ^2/NDF : 163261802.4/24

Right: 142.007 $\pm$ 0.000

χ^2/NDF : 4413623364.4/50

Right Out: 140.300 $\pm$ 0.000

χ^2/NDF : 3028830740.1/27

In: 148.130 $\pm$ 0.000

χ^2/NDF : 1954128198.1/45

Out: 146.895 $\pm$ 0.000

χ^2/NDF : 4665244428.2/52

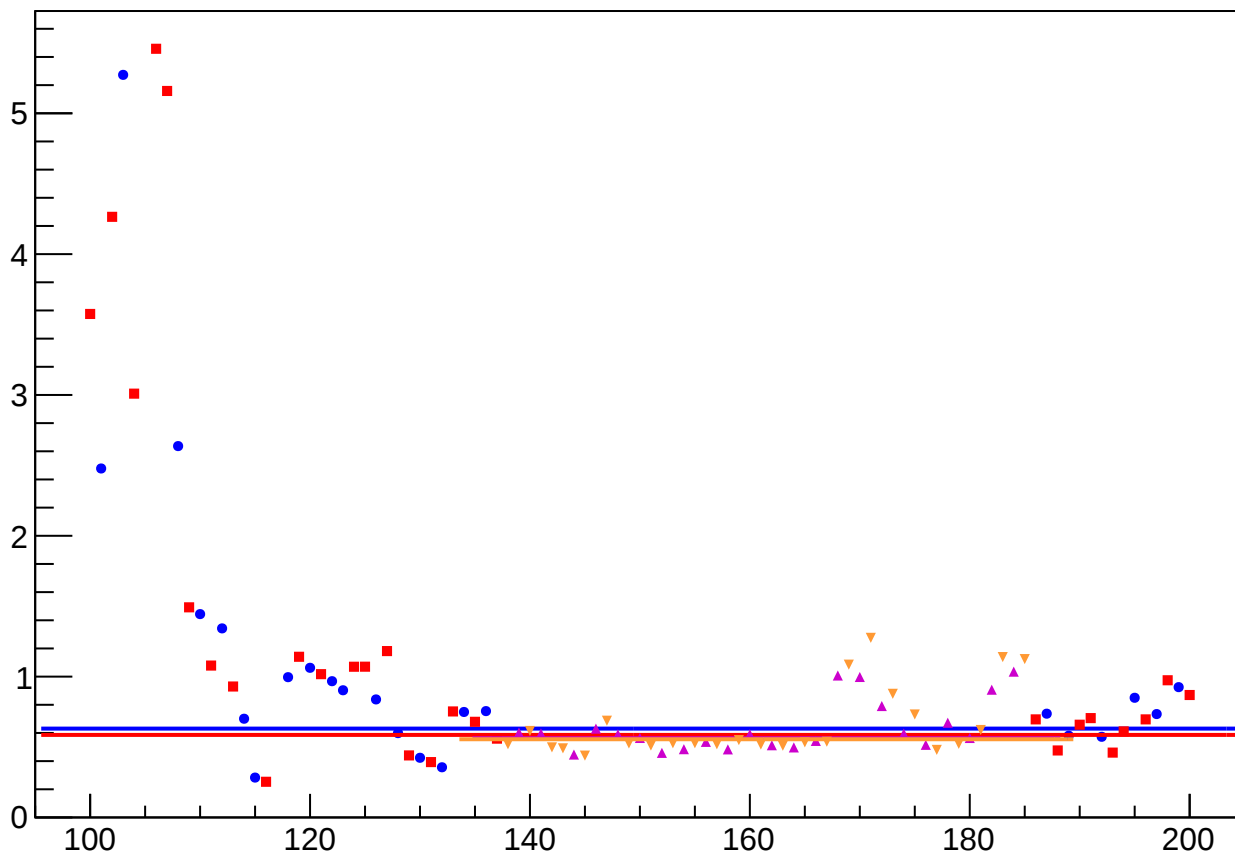
Left In: 149.391 $\pm$ 0.000

χ^2/NDF : 437129920.4/22

All: 147.466 $\pm$ 0.000

χ^2/NDF : 6671757704.8

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.631 $\pm$ 0.000 χ^2/NDF : 3798659.8/22

Left Out: 0.555 $\pm$ 0.000 χ^2/NDF : 1773380.1/24

Right Out: 0.586 $\pm$ 0.000 χ^2/NDF : 5275129.4/27

Left In: 0.562 $\pm$ 0.000 χ^2/NDF : 1311075.2/22

Left: 0.559 $\pm$ 0.000 χ^2/NDF : 3086646.6/47

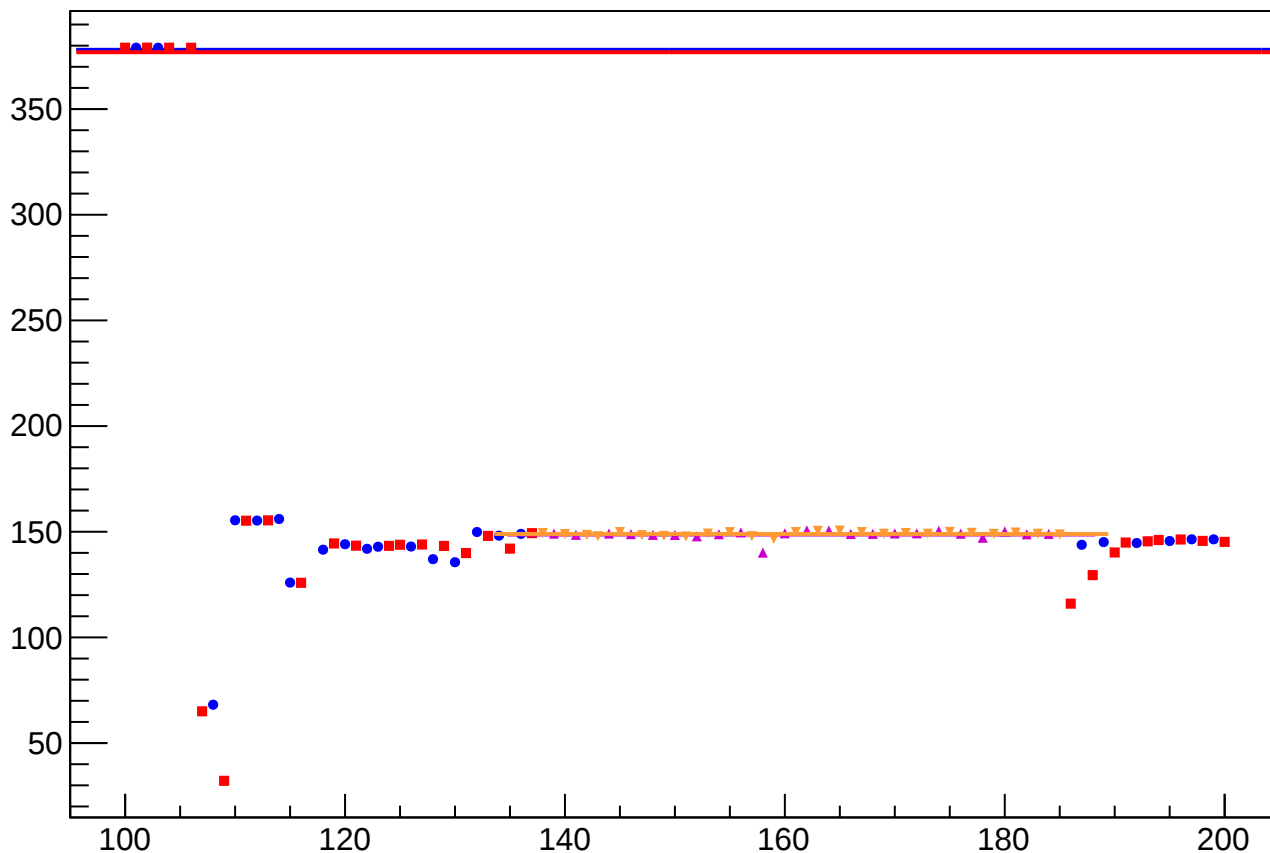
Right: 0.605 $\pm$ 0.000 χ^2/NDF : 9112242.8/50

In: 0.580 $\pm$ 0.000 χ^2/NDF : 5224804.2/45

Out: 0.565 $\pm$ 0.000 χ^2/NDF : 7078662.4/52

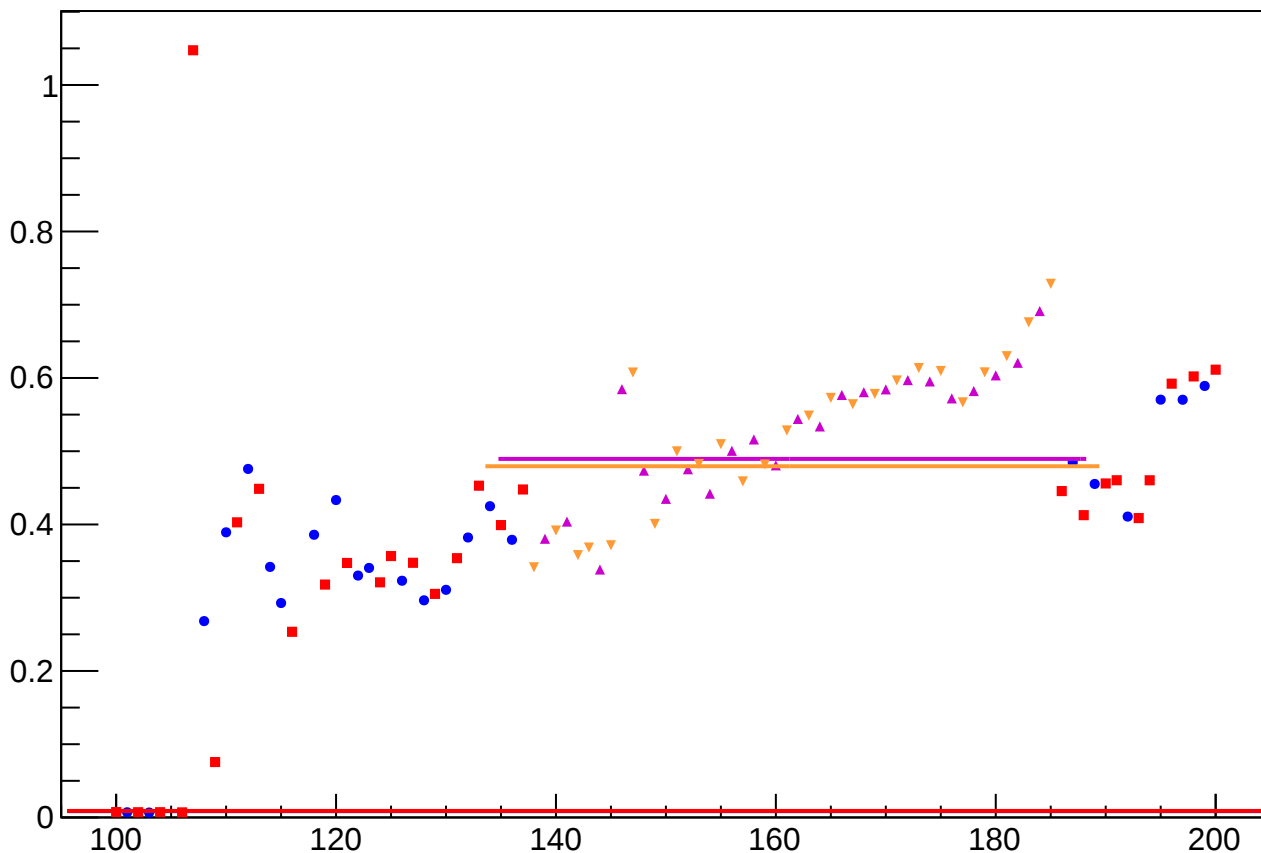
All: 0.572 $\pm$ 0.000 χ^2/NDF : 12318083.2/98

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.035 $\pm$ 0.000	χ^2 /NDF: 3276231114701.6/22	Left: 148.820 $\pm$ 0.000	χ^2 /NDF: 320306424.2/47
Left Out: 148.946 $\pm$ 0.000	χ^2 /NDF: 63974844.7/24	Right: 377.436 $\pm$ 0.000	χ^2 /NDF: 12930908709420.3
Right Out: 376.911 $\pm$ 0.000	χ^2 /NDF: 9645705616206.8/27	In: 376.855 $\pm$ 0.000	χ^2 /NDF: 6882601565976.1/45
Left In: 148.683 $\pm$ 0.000	χ^2 /NDF: 253848207.3/22	Out: 375.794 $\pm$ 0.000	χ^2 /NDF: 13517030922394.3
		All: 376.290 $\pm$ 0.000	χ^2 /NDF: 204076706664.4

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 16920421.4/22

Left Out: 0.479+/-0.000 χ^2/NDF : 1518765.9/24

Right Out: 0.009+/-0.000 χ^2/NDF : 20415446.0/27

Left In: 0.490+/-0.000 χ^2/NDF : 1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47

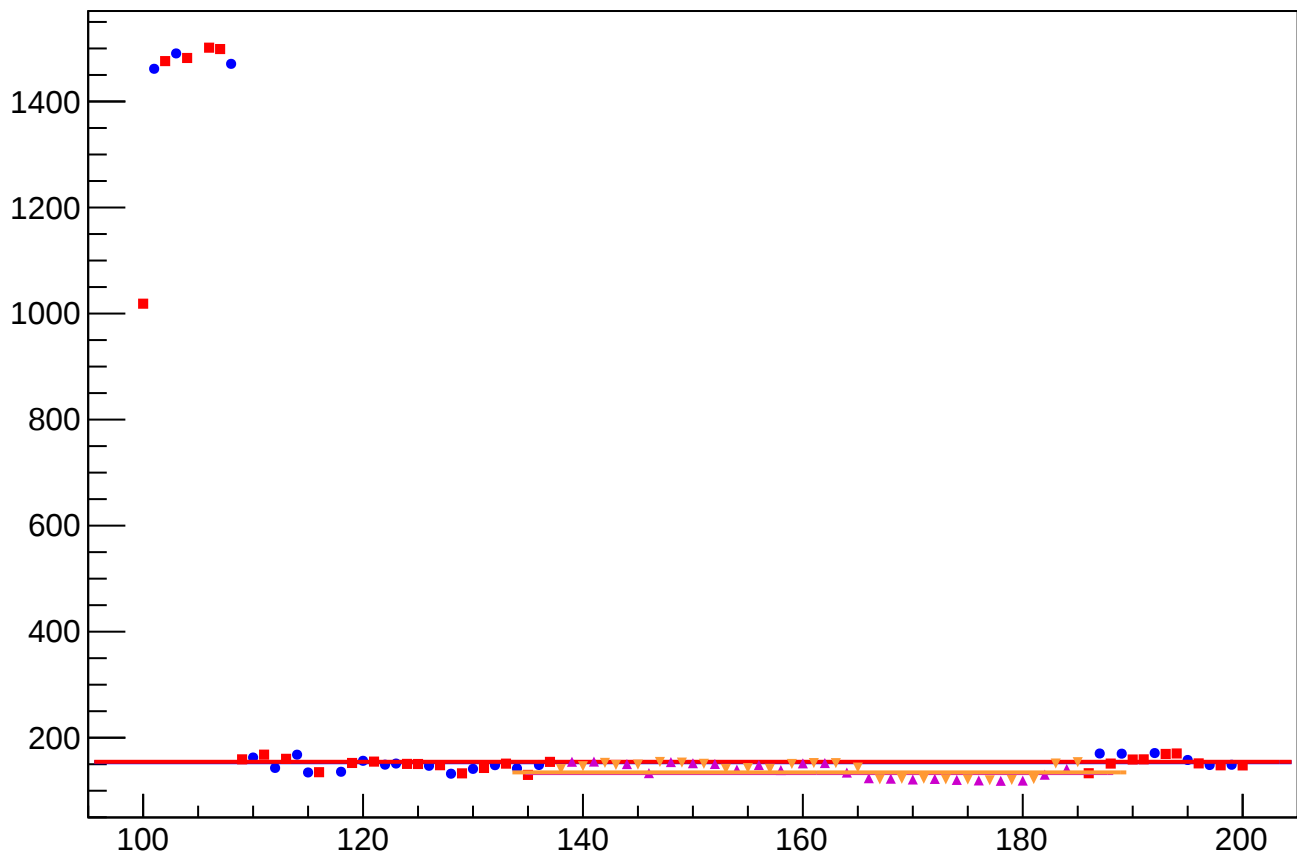
Right: 0.009+/-0.000 χ^2/NDF : 37336681.8/50

In: 0.011+/-0.000 χ^2/NDF : 49715060.2/45

Out: 0.011+/-0.000 χ^2/NDF : 54929667.4/52

All: 0.011+/-0.000 χ^2/NDF : 104644801.2/98

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 153.745 $\pm$ 0.000 χ^2 /NDF: 25479408972.3/22

Left Out: 134.585 $\pm$ 0.000 χ^2 /NDF: 4387324151.1/24

Right Out: 154.581 $\pm$ 0.000 χ^2 /NDF: 34827735547.2/27

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

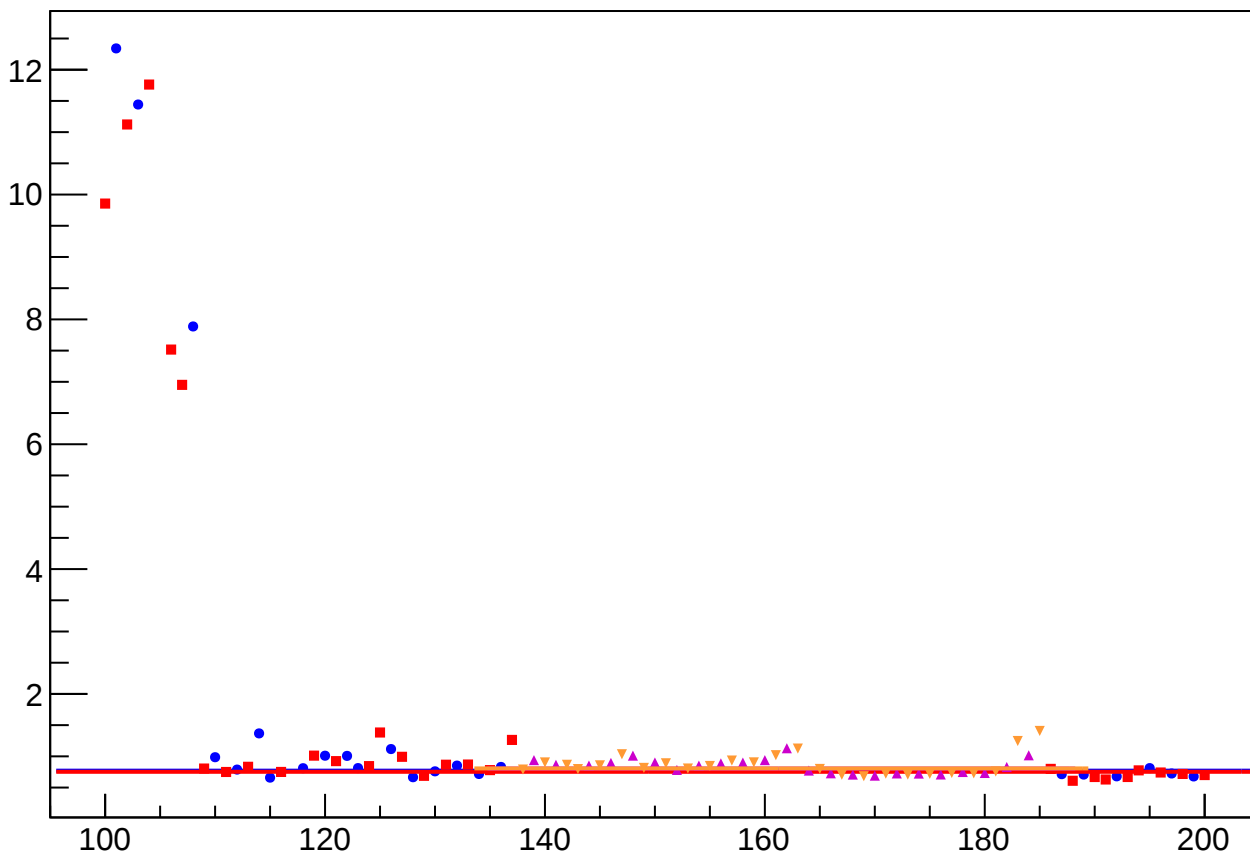
Right: 154.225 $\pm$ 0.000 χ^2 /NDF: 60311986727.5/50

In: 140.349 $\pm$ 0.000 χ^2 /NDF: 33133637456.3/45

Out: 142.719 $\pm$ 0.000 χ^2 /NDF: 43076682554.4/52

All: 141.613 $\pm$ 0.000 χ^2 /NDF: 76315259069.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.771 $\pm$ 0.000 χ^2 /NDF: 2804860.9/22

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.753 $\pm$ 0.000 χ^2 /NDF: 3140513.5/27

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: 0.760 $\pm$ 0.000 χ^2 /NDF: 5949935.7/50

In: 0.793 $\pm$ 0.000 χ^2 /NDF:3302569.4/45

Out: 0.785 $\pm$ 0.000 χ^2 /NDF:3901095.5/52

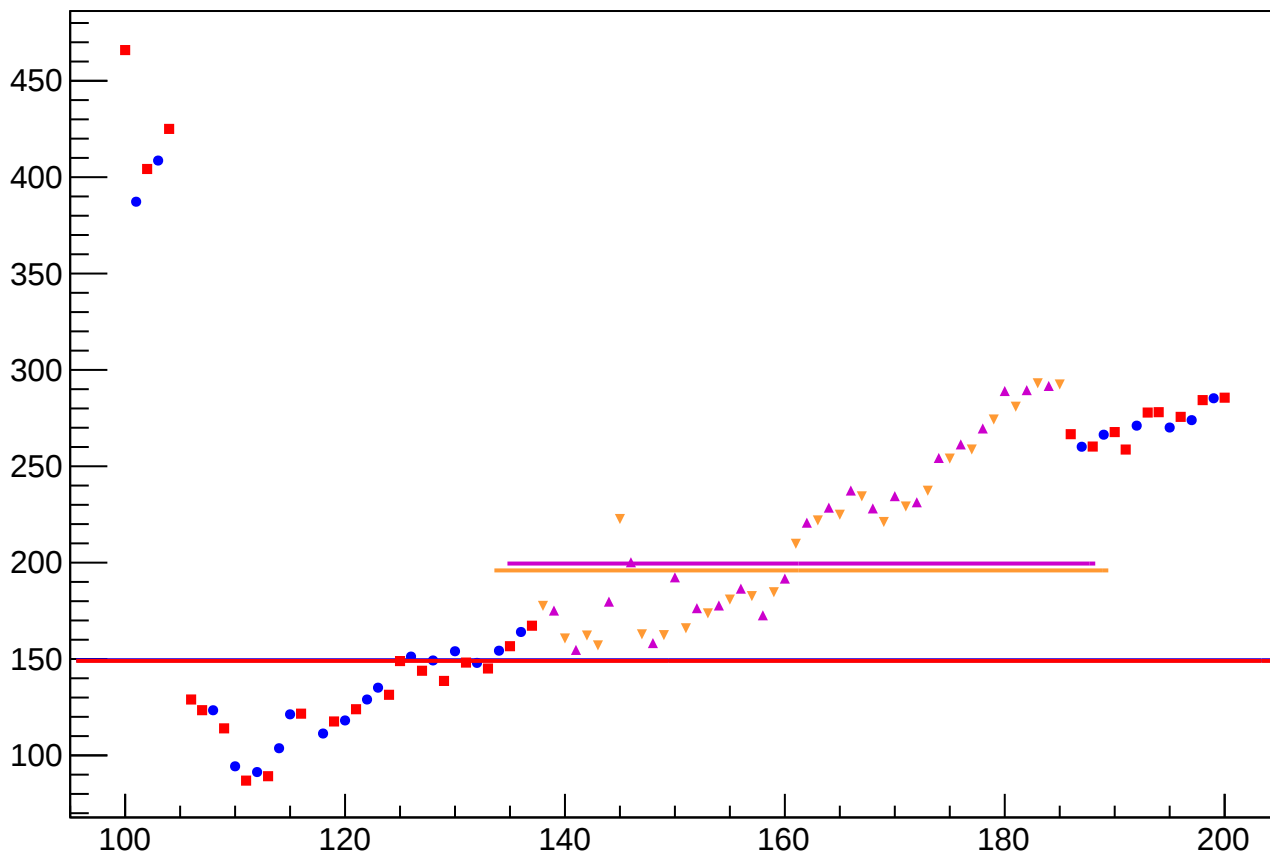
All: 0.789 $\pm$ 0.000 χ^2 /NDF: 7206188.7/98

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 134040.687 $\pm$ 0.051 χ^2 /NDF: 93777288429.4/22
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 135256.015 $\pm$ 0.046 χ^2 /NDF: 132495150504.7/27
 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: 134707.677 $\pm$ 0.034 χ^2 /NDF: 226586589013.4/47
 In: 131249.599 $\pm$ 0.035 χ^2 /NDF: 99921406109.9/47
 Out: 132026.816 $\pm$ 0.033 χ^2 /NDF: 142802442266.4/47
 All: 131665.938 $\pm$ 0.024 χ^2 /NDF: 242984943.4/94

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 149.373+/-0.036 χ^2/NDF : 3353499.1/22

Left Out: 195.964+/-0.033 χ^2/NDF :1316091.7/24

Right Out: 149.029+/-0.033 χ^2/NDF : 4442397.3/27

Left In: 199.531+/-0.035 χ^2/NDF :1175342.5/22

Left: 197.666+/-0.024 χ^2/NDF : 2497014.2/47

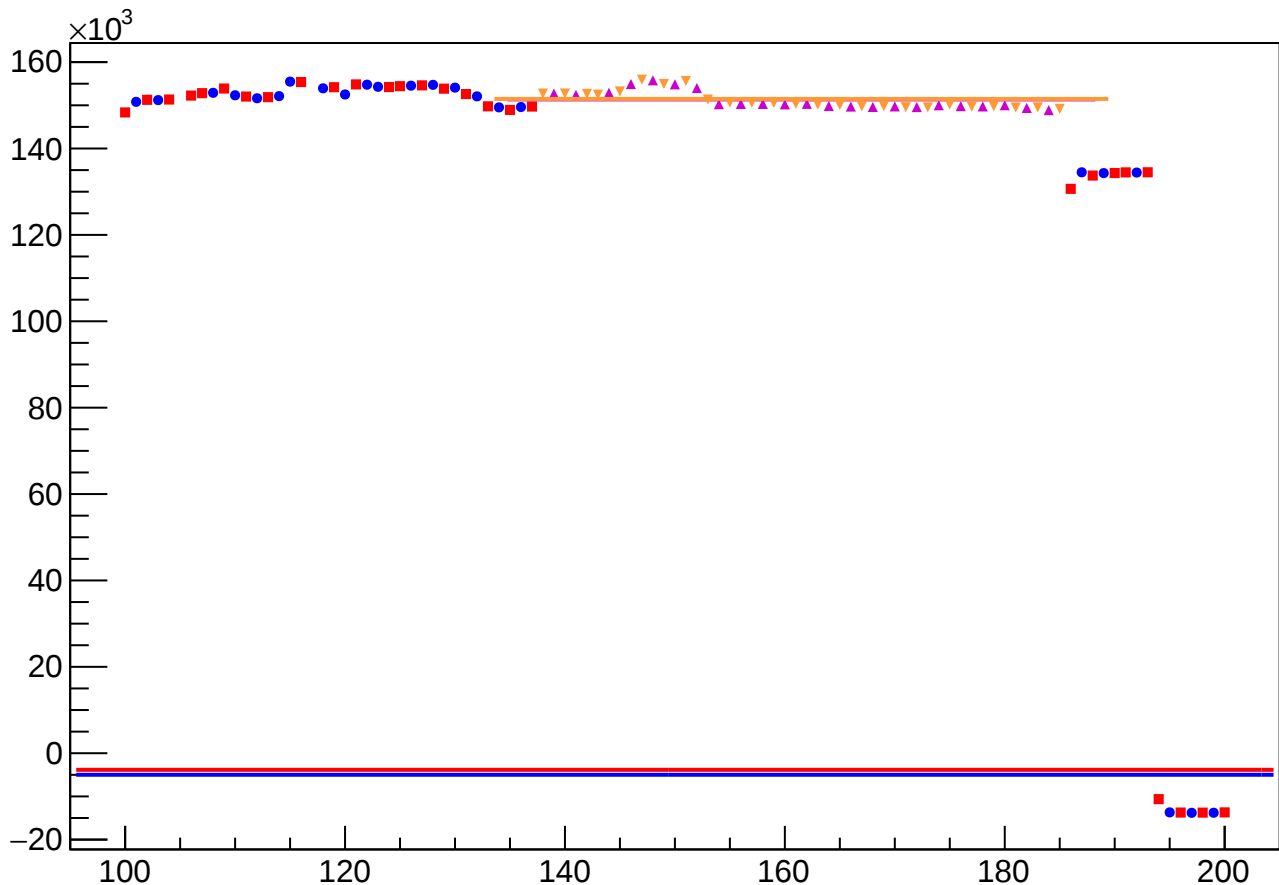
Right: 149.185+/-0.024 χ^2/NDF : 7795946.7/50

In: 175.440+/-0.025 χ^2/NDF :5542242.9/45

Out: 172.196+/-0.023 χ^2/NDF :6783618.5/52

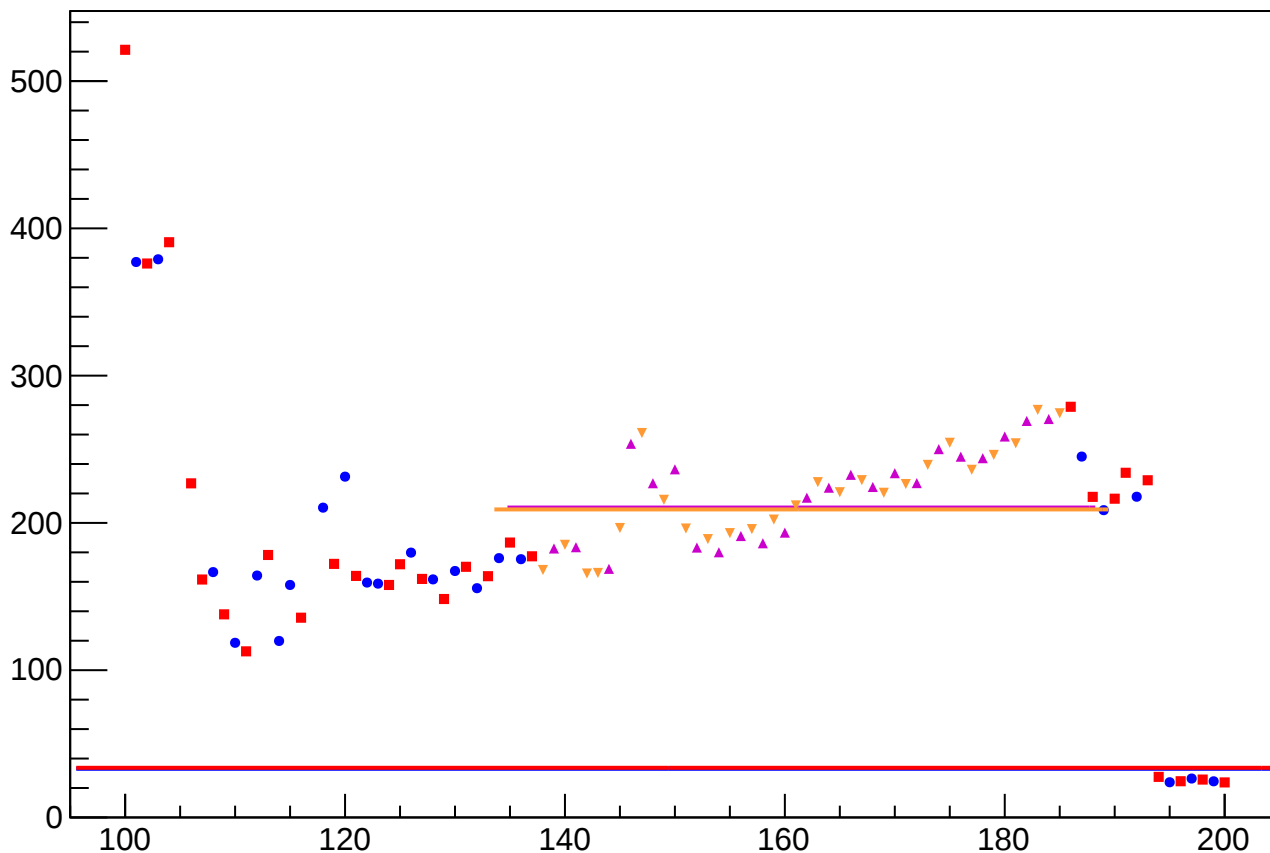
All: 173.702+/-0.017 χ^2/NDF : 12334960.5/98

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -4984.119 $\pm$ 0.016 χ^2 /NDF: 5652617322861.4/22
 Left Out: 151480.339 $\pm$ 0.049 χ^2 /NDF: 1483692735.3/24
 Right Out: -3843.254 $\pm$ 0.015 χ^2 /NDF: 6932206772616.7/27
 Left In: 151362.440 $\pm$ 0.051 χ^2 /NDF: 1426782789.9/22
 Left: 151423.440 $\pm$ 0.036 χ^2 /NDF: 2913216467.1/24
 Right: -4376.288 $\pm$ 0.011 χ^2 /NDF: 12587702978709.4/24
 In: 8162.122 $\pm$ 0.015 χ^2 /NDF: 14186940136568.9/24
 Out: 8497.237 $\pm$ 0.014 χ^2 /NDF: 16007819810491.4/24
 All: 8340.244 $\pm$ 0.010 χ^2 /NDF: 30195030506.4/24

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 33.049+/-0.011 χ^2/NDF : 10990531.0/22

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 33.717+/-0.010 χ^2/NDF : 13046405.5/27

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

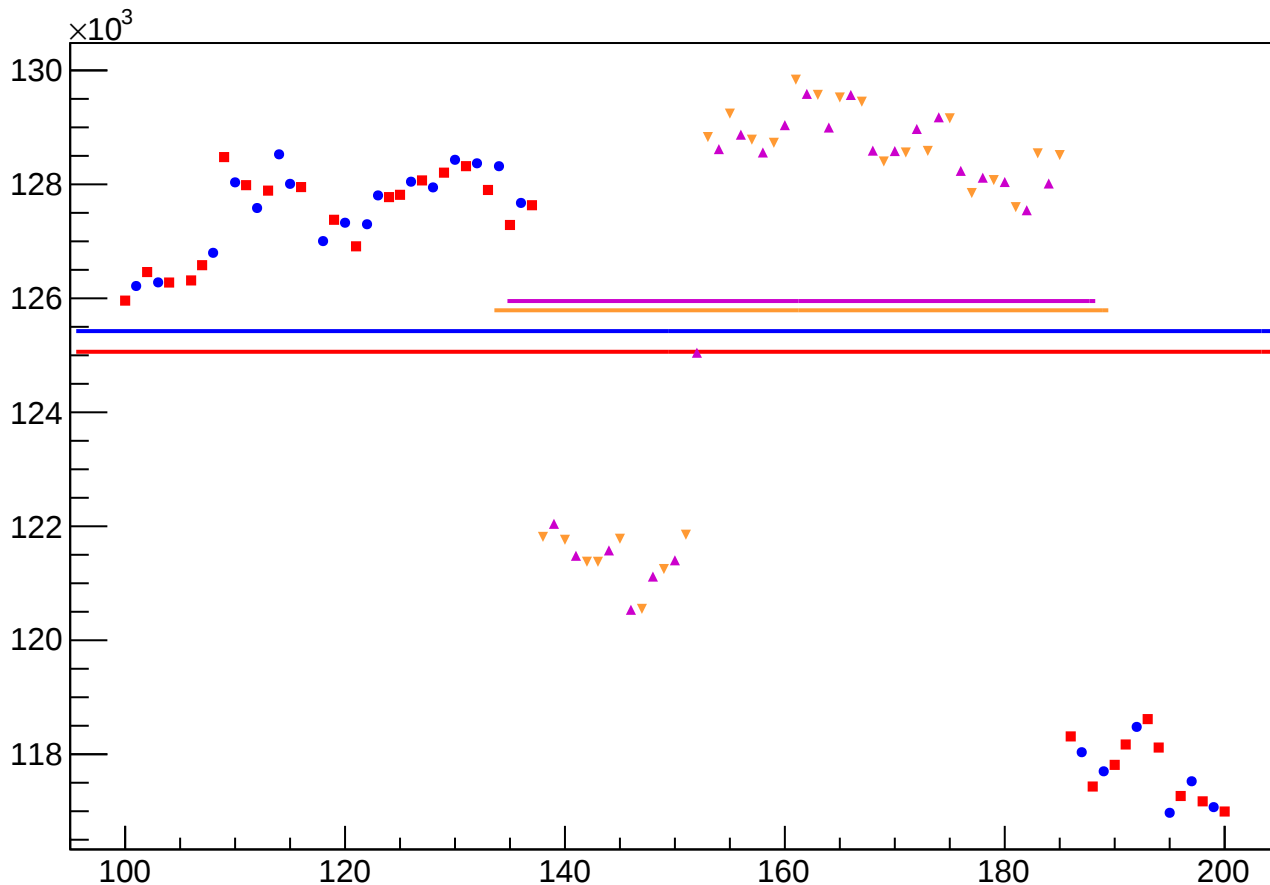
Right: 33.405+/-0.008 χ^2/NDF : 24038913.3/50

In: 47.964+/-0.011 χ^2/NDF : 33641412.3/45

Out: 47.656+/-0.010 χ^2/NDF : 36909607.5/52

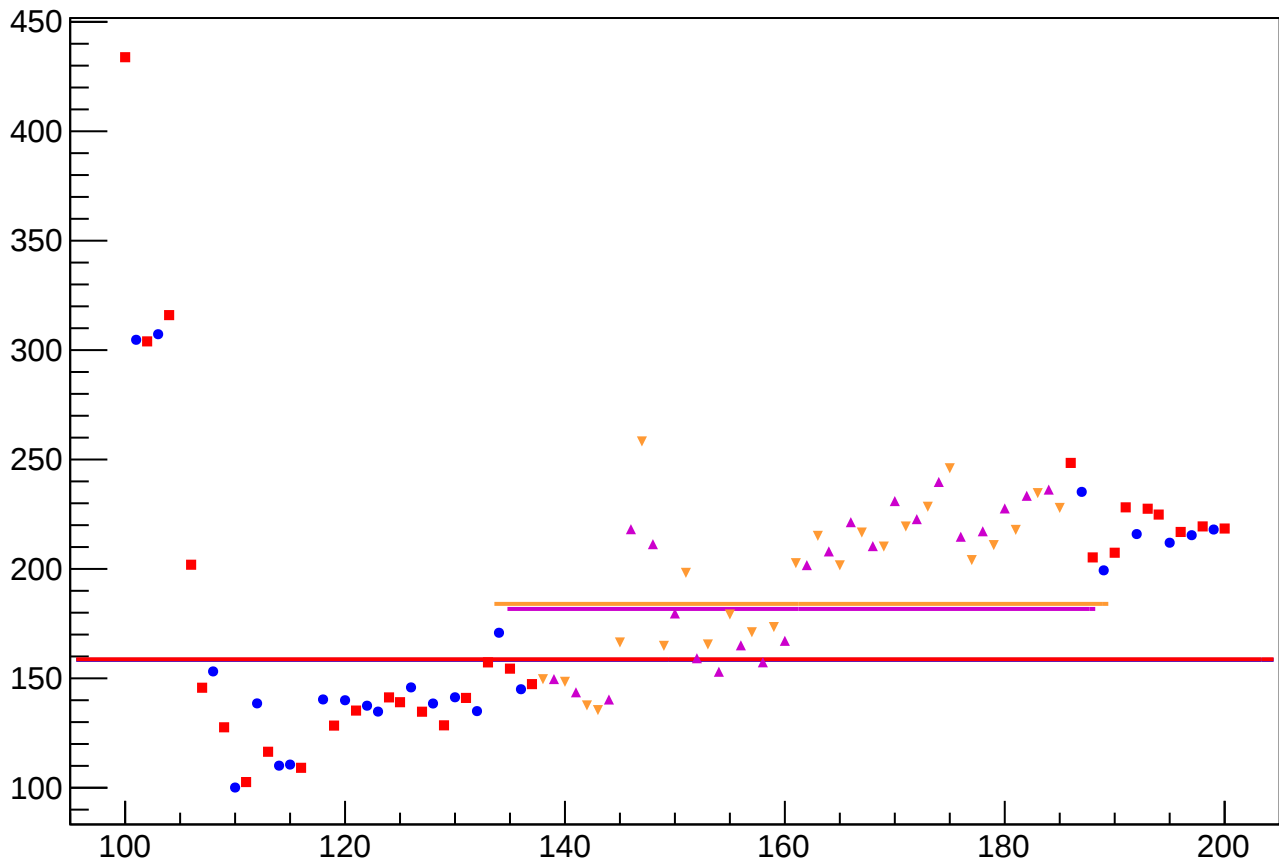
All: 47.800+/-0.007 χ^2/NDF : 70551476.5/98

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 125425.074+/-0.051	χ^2/NDF : 6939438503.3/22	Left: 125870.001+/-0.031	χ^2/NDF : 12592819321.6/22
Left Out: 125790.126+/-0.044	χ^2/NDF : 6744310079.8/24	Right: 125226.713+/-0.035	χ^2/NDF : 16138351413.3/24
Right Out: 125062.289+/-0.047	χ^2/NDF : 9171671877.5/27	In: 125725.553+/-0.034	χ^2/NDF : 12841224772.6/27
Left In: 125952.447+/-0.045	χ^2/NDF : 5841800367.5/22	Out: 125448.909+/-0.032	χ^2/NDF : 16044489113.8/22
		All: 125580.199+/-0.023	χ^2/NDF : 289210943.3/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 158.448 $\pm$ 0.036 χ^2 /NDF: 1523161.1/22

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 158.697 $\pm$ 0.033 χ^2 /NDF: 2181464.9/27

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

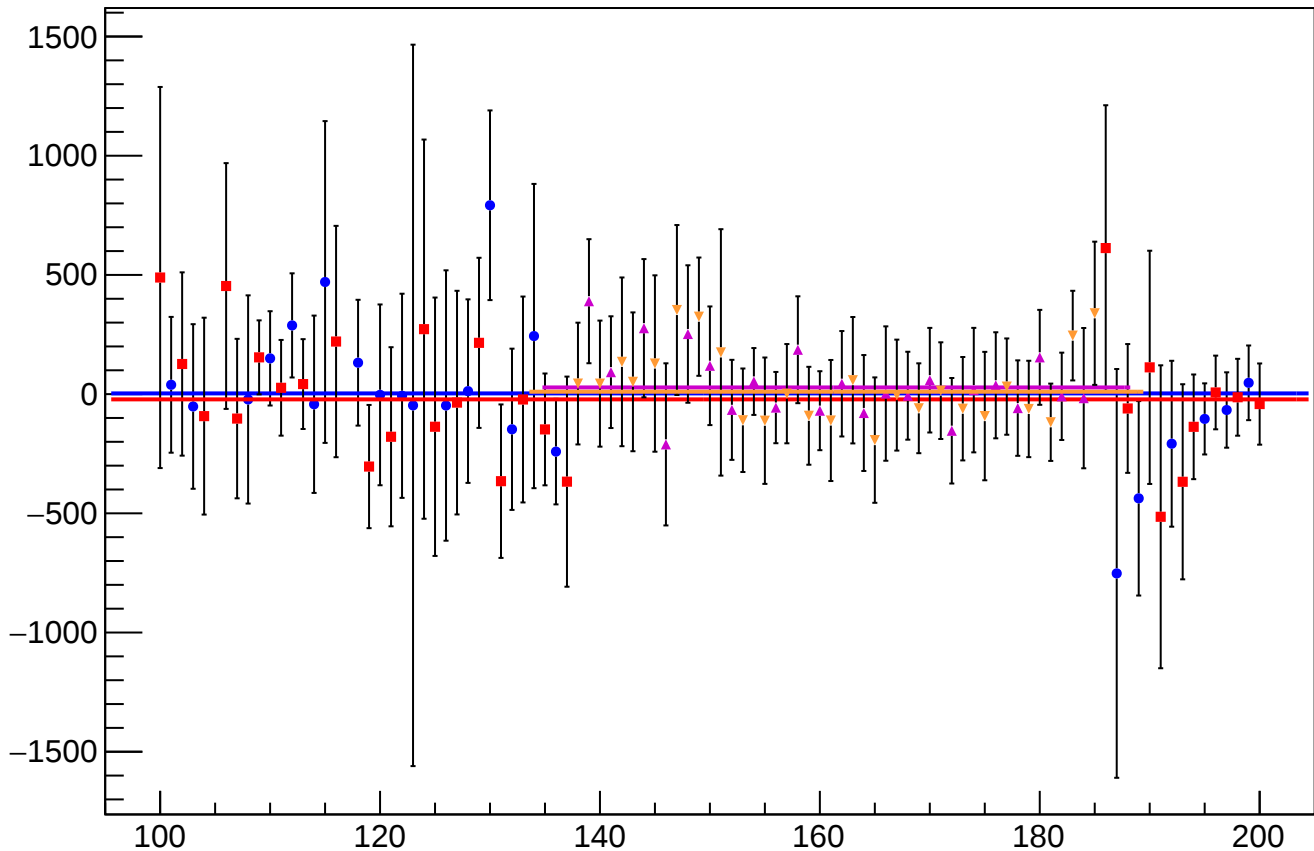
Right: 158.584 $\pm$ 0.024 χ^2 /NDF: 3704651.7/50

In: 171.704 $\pm$ 0.024 χ^2 /NDF: 2872804.7/45

Out: 172.153 $\pm$ 0.023 χ^2 /NDF: 3619394.4/52

All: 171.940 $\pm$ 0.016 χ^2 /NDF: 6492385.7/98

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 3.020 ± 57.901 χ^2/NDF : 11.6/22

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -22.020 ± 52.119 χ^2/NDF : 10.1/27

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

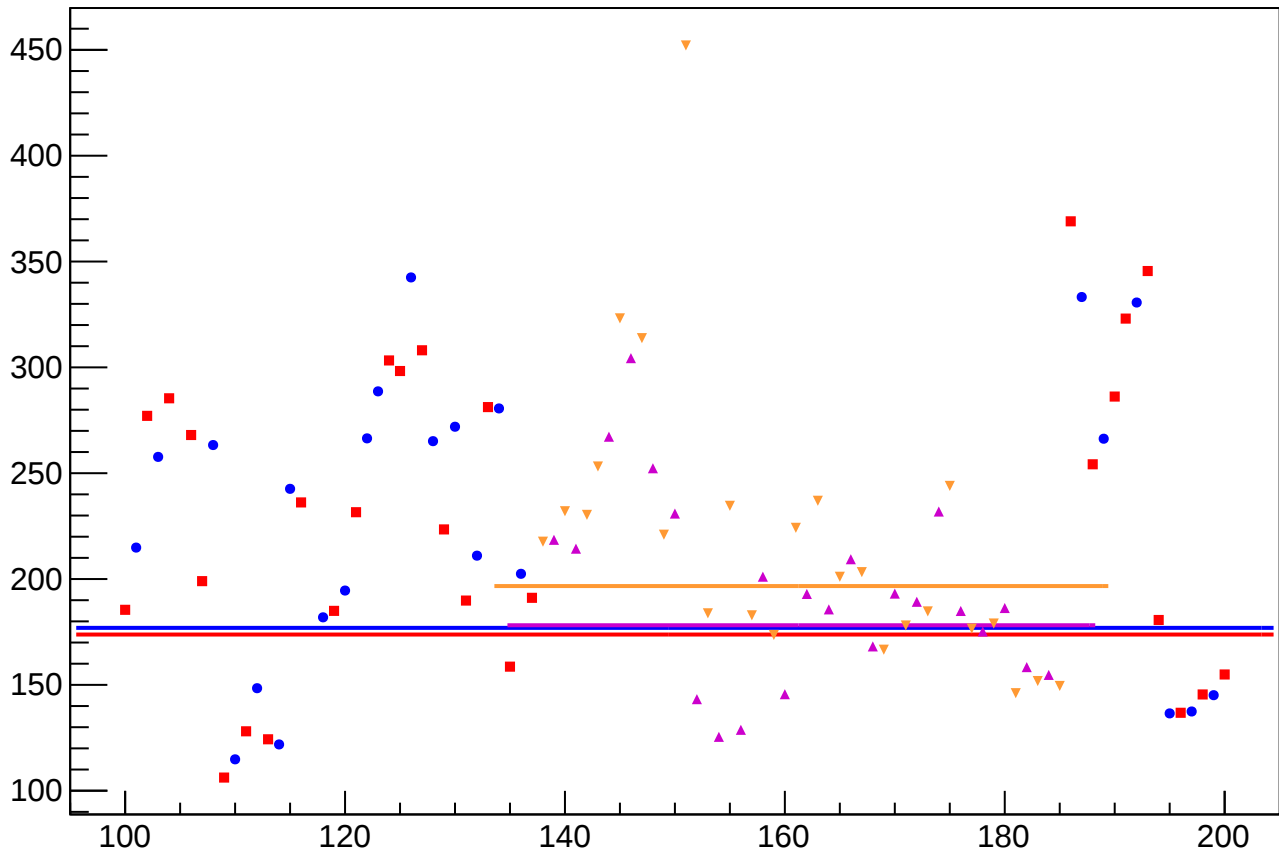
Right: -10.812 ± 38.737 χ^2/NDF : 21.8/50

In: 18.736 ± 35.319 χ^2/NDF : 18.7/45

Out: -4.482 ± 35.102 χ^2/NDF : 18.8/52

All: 7.055 ± 24.898 χ^2/NDF : 37.7/98

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 176.936 $\pm$ 0.041 χ^2 /NDF: 2017133.8/22

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 173.782 $\pm$ 0.037 χ^2 /NDF: 2736528.2/27

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

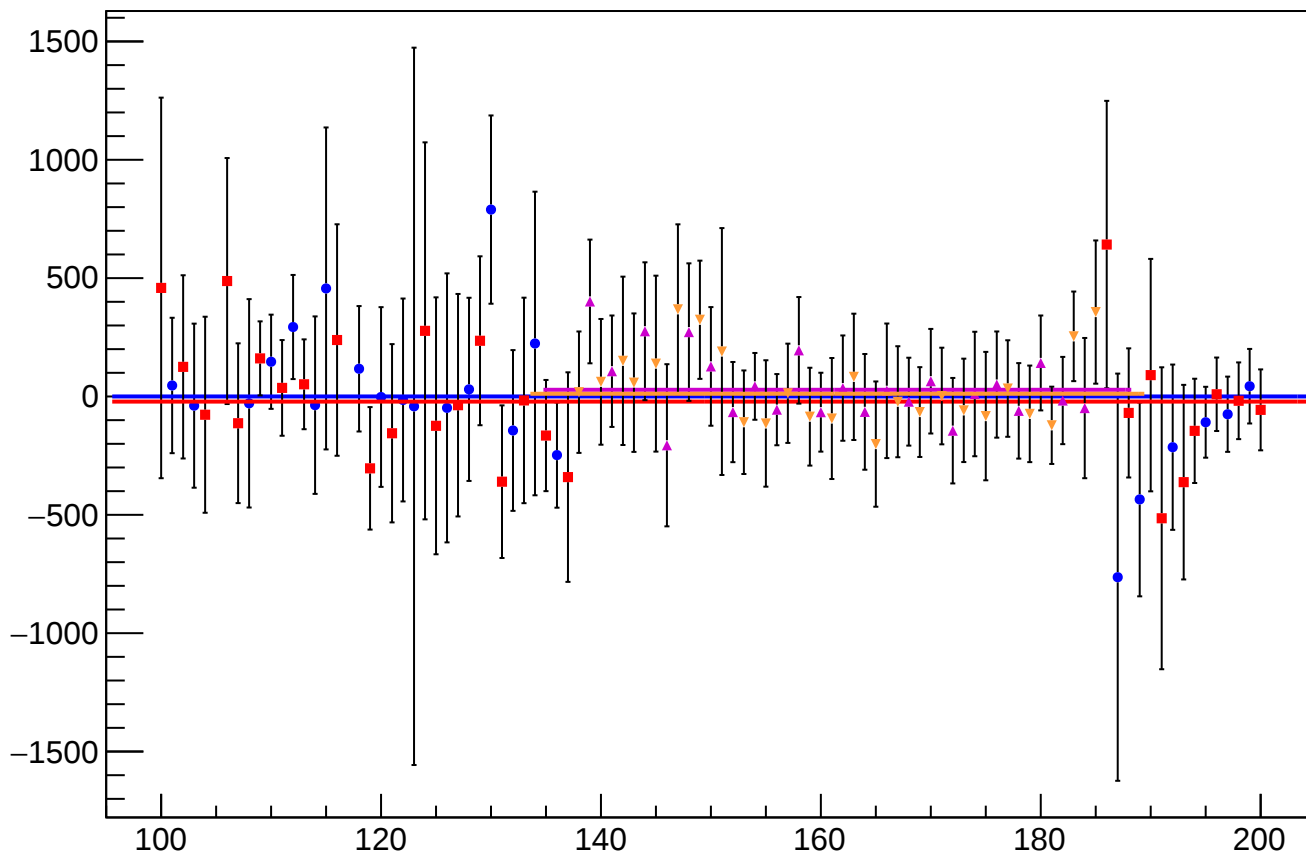
Right: 175.193 $\pm$ 0.027 χ^2 /NDF: 4756939.8/50

In: 177.708 $\pm$ 0.025 χ^2 /NDF:3636668.4/45

Out: 186.294 $\pm$ 0.025 χ^2 /NDF:4730206.6/52

All: 182.027 $\pm$ 0.018 χ^2 /NDF: 8426335.6/98

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 0.091 ± 58.181 χ^2/NDF : 11.6/22

Left Out: 11.479 ± 47.819 χ^2/NDF : 8.8/24

Right Out: -21.583 ± 52.386 χ^2/NDF : 10.4/27

Left In: 28.280 ± 44.863 χ^2/NDF : 7.1/22

Left: 20.415 ± 32.718 χ^2/NDF : 16.0/47

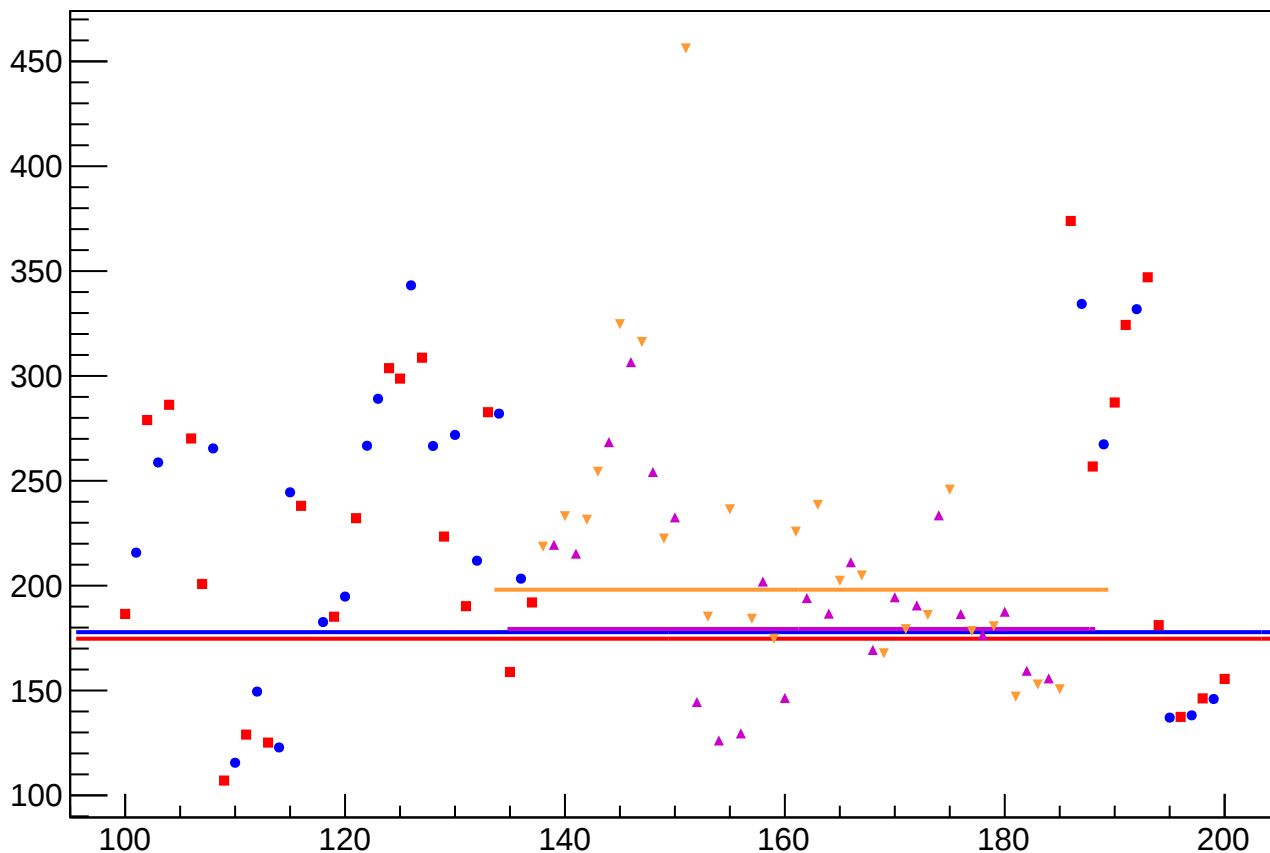
Right: -11.879 ± 38.931 χ^2/NDF : 22.1/50

In: 17.769 ± 35.528 χ^2/NDF : 18.9/45

Out: -3.548 ± 35.318 χ^2/NDF : 19.4/52

All: 7.047 ± 25.047 χ^2/NDF : 38.5/98

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 177.835 $\pm$ 0.041 χ^2 /NDF: 2007594.4/22

Left Out: 198.059 $\pm$ 0.034 χ^2 /NDF:1778526.5/24

Right Out: 174.692 $\pm$ 0.037 χ^2 /NDF: 2731052.7/27

Left In: 179.324 $\pm$ 0.032 χ^2 /NDF:1618266.2/22

Left: 188.094 $\pm$ 0.023 χ^2 /NDF: 3560073.1/47

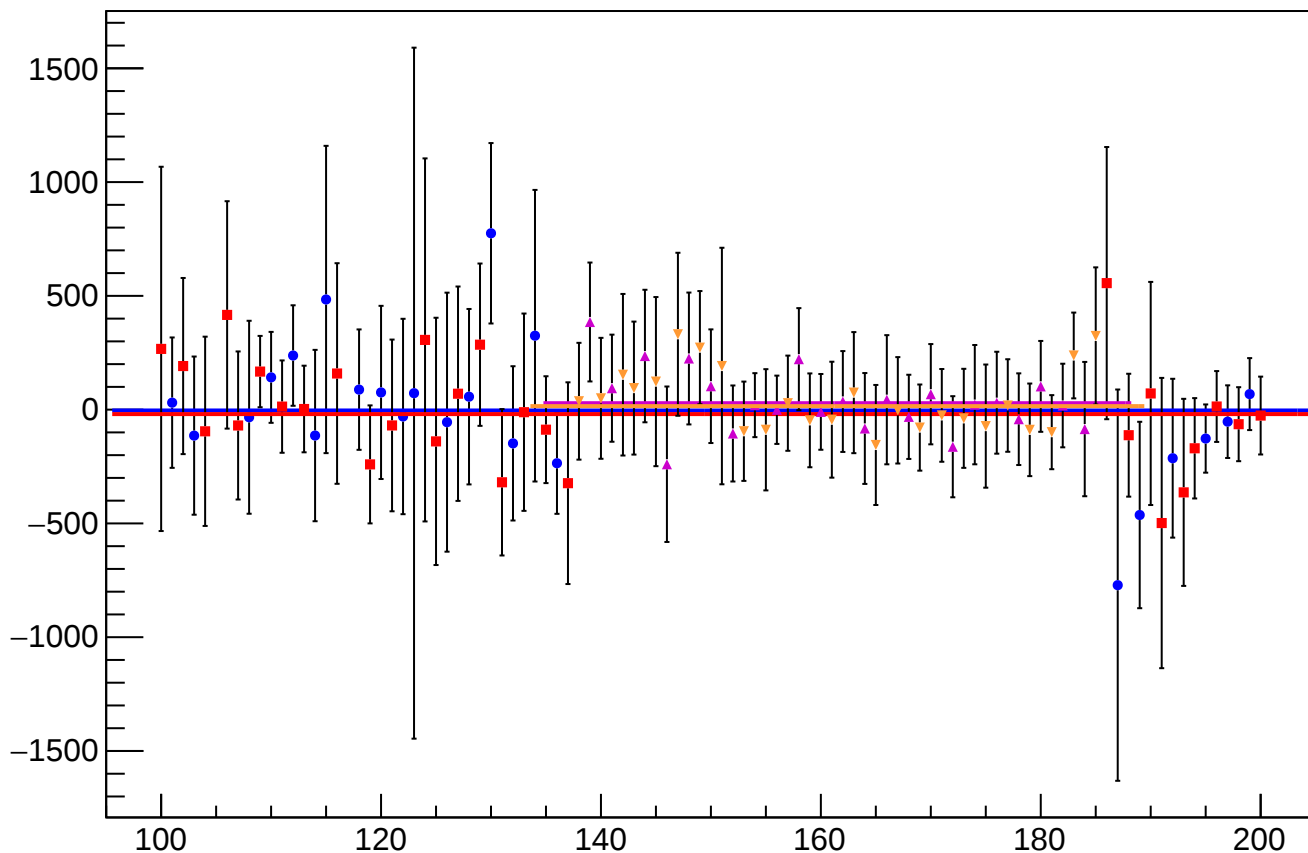
Right: 176.099 $\pm$ 0.028 χ^2 /NDF: 4741870.0/50

In: 178.769 $\pm$ 0.025 χ^2 /NDF:3626682.0/45

Out: 187.438 $\pm$ 0.025 χ^2 /NDF:4726636.0/52

All: 183.129 $\pm$ 0.018 χ^2 /NDF: 8413218.4/98

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -3.668+/-58.256 χ^2/NDF : 11.4/22

Left Out: 15.437+/-47.695 χ^2/NDF : 7.0/24

Right Out: -19.601+/-52.369 χ^2/NDF : 8.9/27

Left In: 28.277+/-44.743 χ^2/NDF : 6.4/22

Left: 22.267+/-32.632 χ^2/NDF : 13.4/47

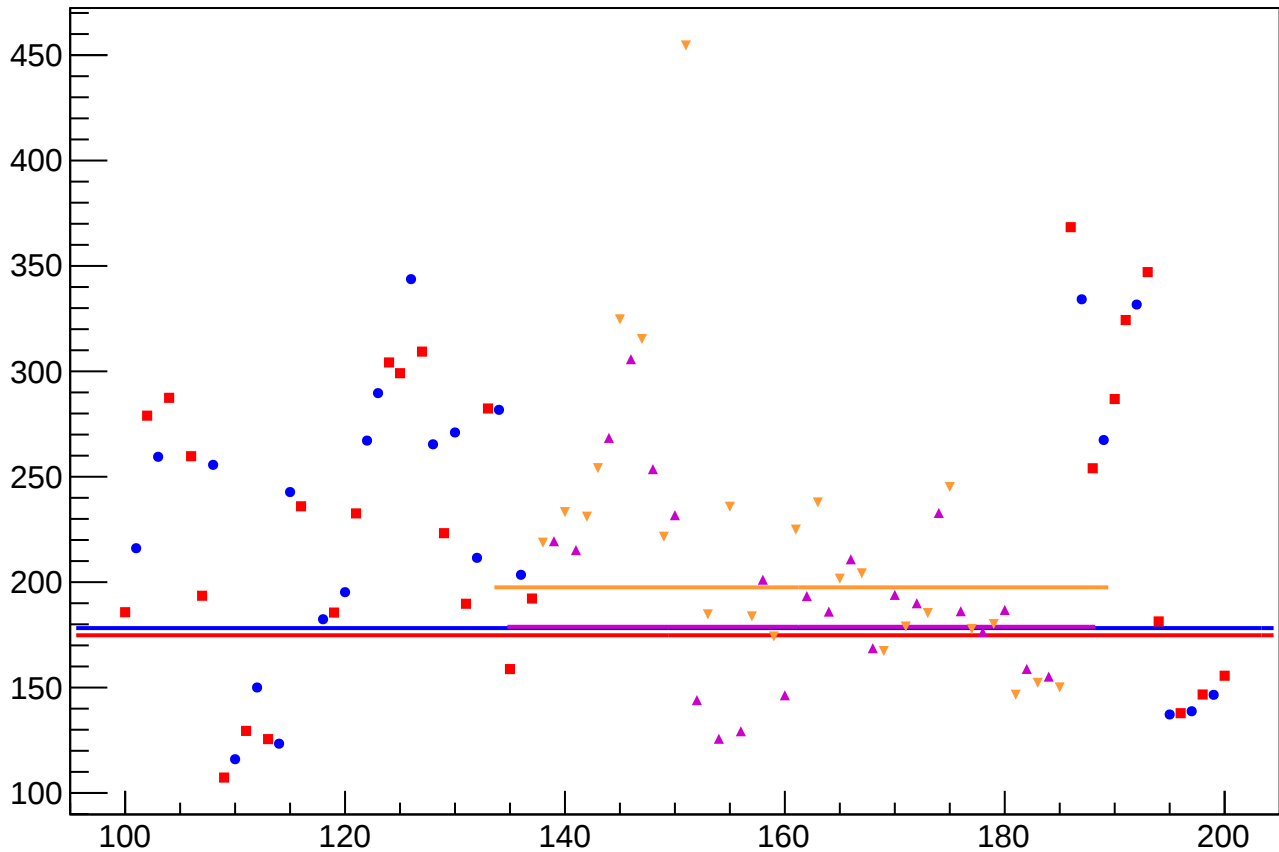
Right: -12.480+/-38.946 χ^2/NDF : 20.4/50

In: 16.424+/-35.485 χ^2/NDF : 18.0/45

Out: -0.449+/-35.262 χ^2/NDF : 16.1/52

All: 7.935+/-25.013 χ^2/NDF : 34.2/98

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 178.208 $\pm$ 0.041 χ^2 /NDF: 1976711.6/22

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 174.799 $\pm$ 0.037 χ^2 /NDF: 2687383.1/27

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

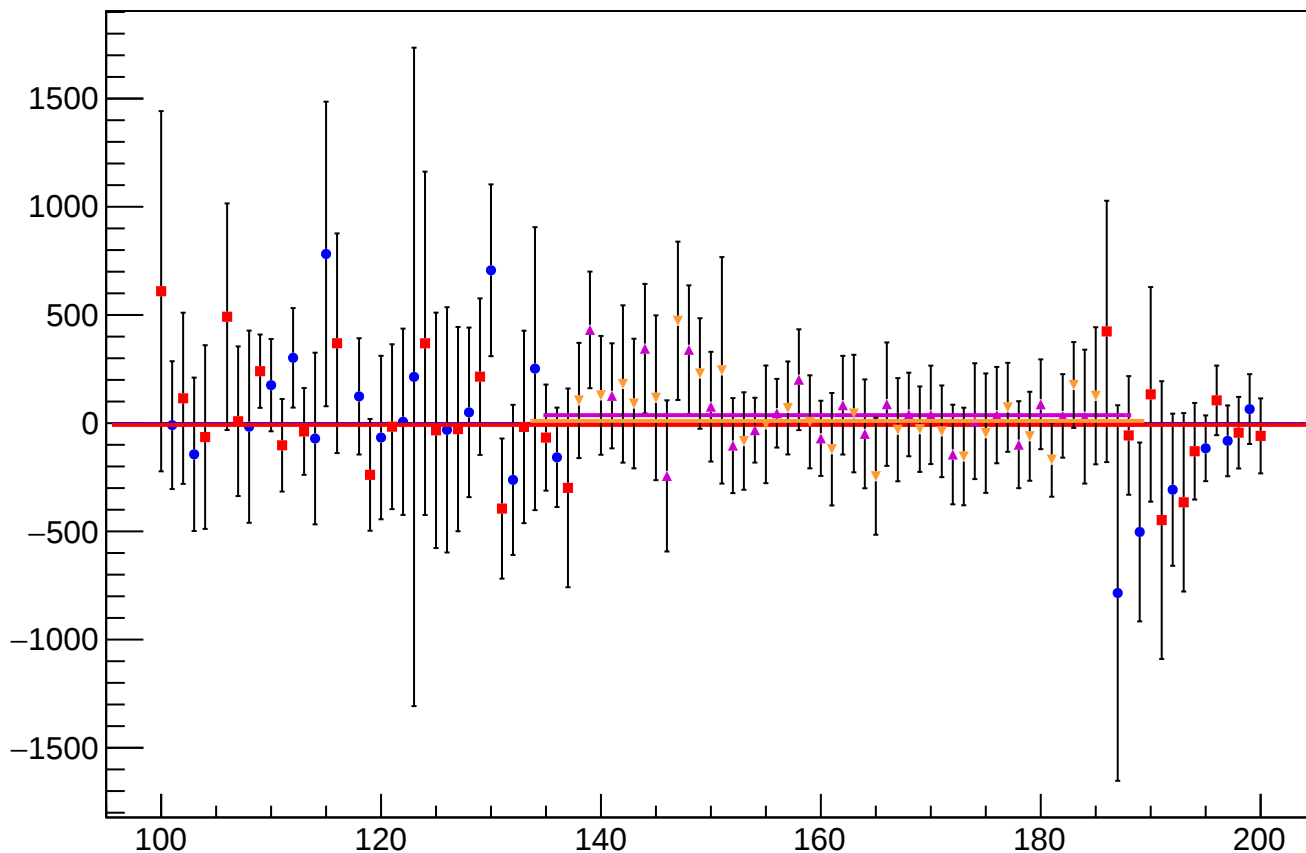
Right: 176.323 $\pm$ 0.028 χ^2 /NDF: 4667882.4/50

In: 178.603 $\pm$ 0.025 χ^2 /NDF:3599124.5/45

Out: 187.223 $\pm$ 0.025 χ^2 /NDF:4677523.5/52

All: 182.940 $\pm$ 0.018 χ^2 /NDF: 8336027.1/98

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -4.109 ± 59.718 $\chi^2/\text{NDF}: 12.5/22$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -7.833 ± 53.997 $\chi^2/\text{NDF}: 10.6/27$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

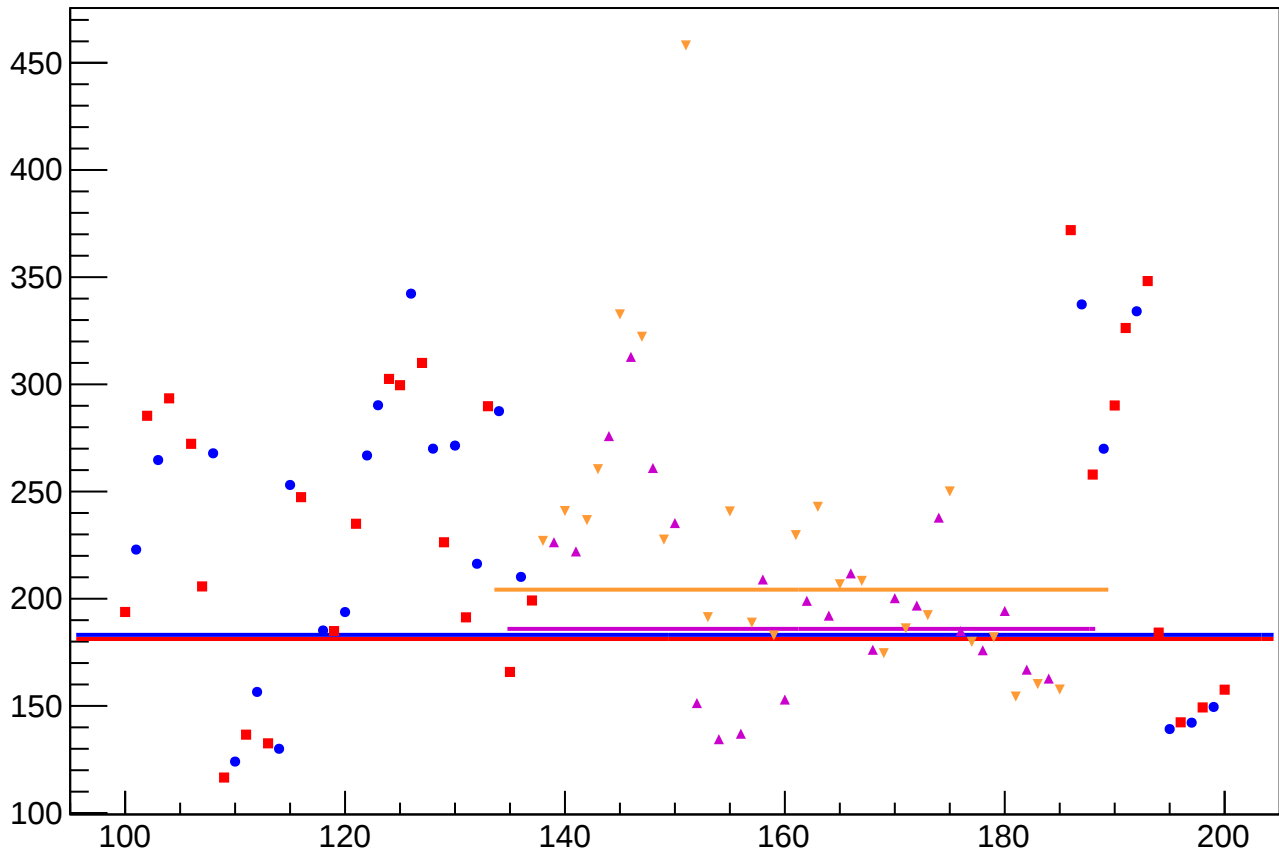
Right: -6.158 ± 40.052 $\chi^2/\text{NDF}: 23.1/50$

In: 21.542 ± 36.619 $\chi^2/\text{NDF}: 20.7/45$

Out: 2.203 ± 36.366 $\chi^2/\text{NDF}: 18.1/52$

All: 11.806 ± 25.804 $\chi^2/\text{NDF}: 38.9/98$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 183.150+/-0.042 χ^2/NDF : 1889922.3/22

Left Out: 204.236+/-0.035 χ^2/NDF :1675666.0/24

Right Out: 181.217+/-0.038 χ^2/NDF : 2485703.6/27

Left In: 185.931+/-0.033 χ^2/NDF :1460065.0/22

Left: 194.540+/-0.024 χ^2/NDF : 3282383.3/47

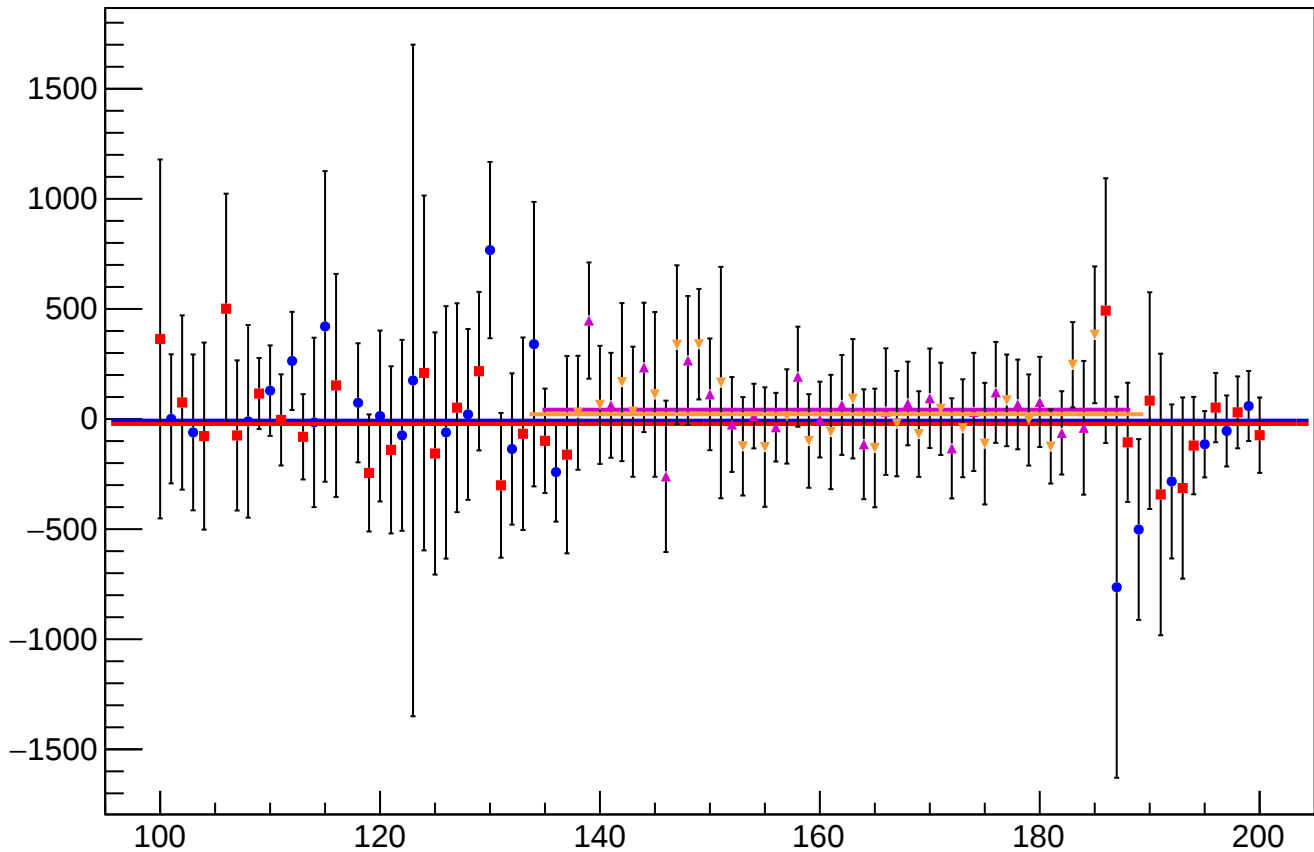
Right: 182.086+/-0.028 χ^2/NDF : 4376779.1/50

In: 184.885+/-0.026 χ^2/NDF :3352695.0/45

Out: 193.795+/-0.026 χ^2/NDF :4359978.5/52

All: 189.371+/-0.018 χ^2/NDF : 7772276.2/98

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -7.246 ± 58.967 χ^2/NDF : 11.3/22

Left Out: 22.189 ± 48.738 χ^2/NDF : 8.4/24

Right Out: -22.445 ± 53.090 χ^2/NDF : 6.9/27

Left In: 42.446 ± 45.861 χ^2/NDF : 6.7/22

Left: 32.933 ± 33.399 χ^2/NDF : 15.2/47

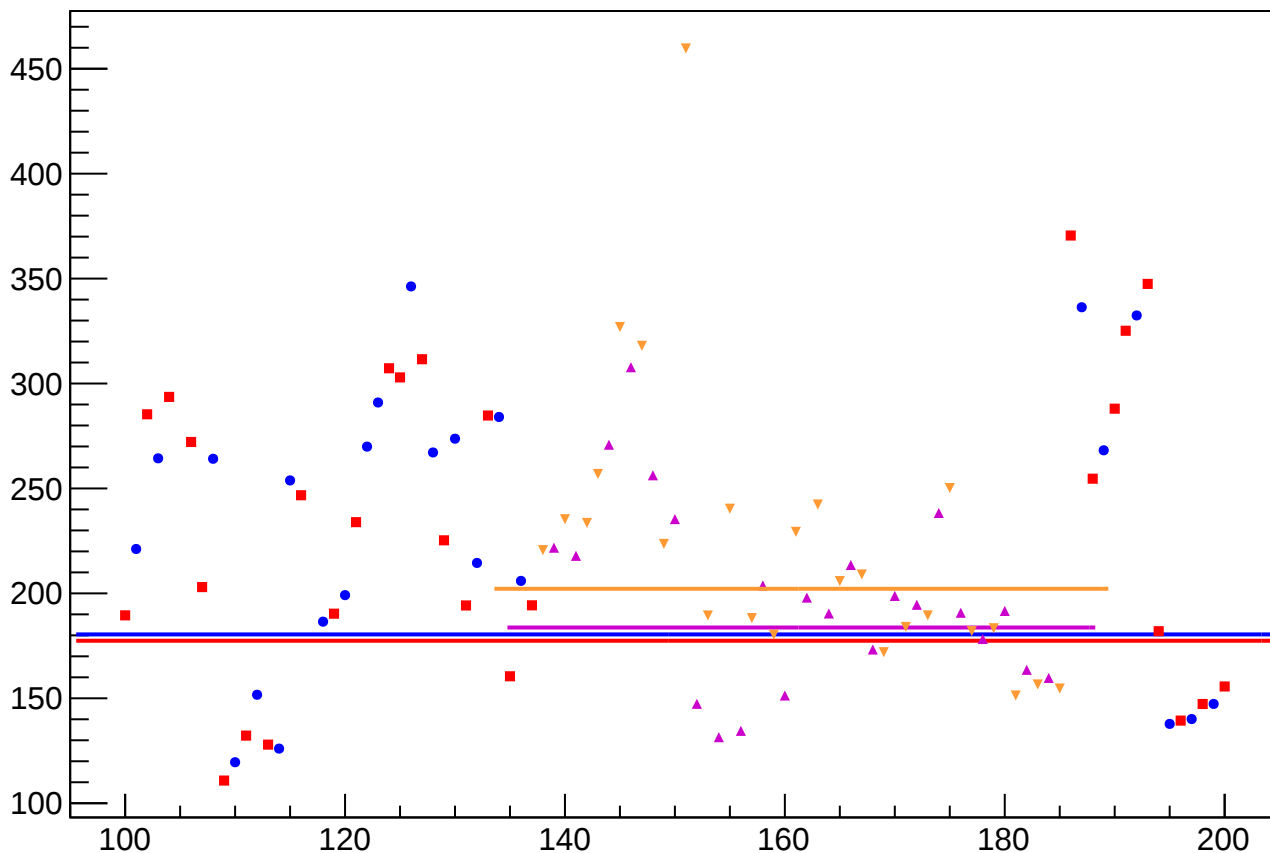
Right: -15.641 ± 39.455 χ^2/NDF : 18.2/50

In: 23.717 ± 36.201 χ^2/NDF : 18.5/45

Out: 1.776 ± 35.903 χ^2/NDF : 15.6/52

All: 12.656 ± 25.492 χ^2/NDF : 34.3/98

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 180.446 $\pm$ 0.042 χ^2 /NDF: 1974636.6/22

Left Out: 202.186 $\pm$ 0.034 χ^2 /NDF:1696571.9/24

Right Out: 177.431 $\pm$ 0.038 χ^2 /NDF: 2656288.5/27

Left In: 183.732 $\pm$ 0.032 χ^2 /NDF:1495930.4/22

Left: 192.398 $\pm$ 0.024 χ^2 /NDF: 3344580.1/47

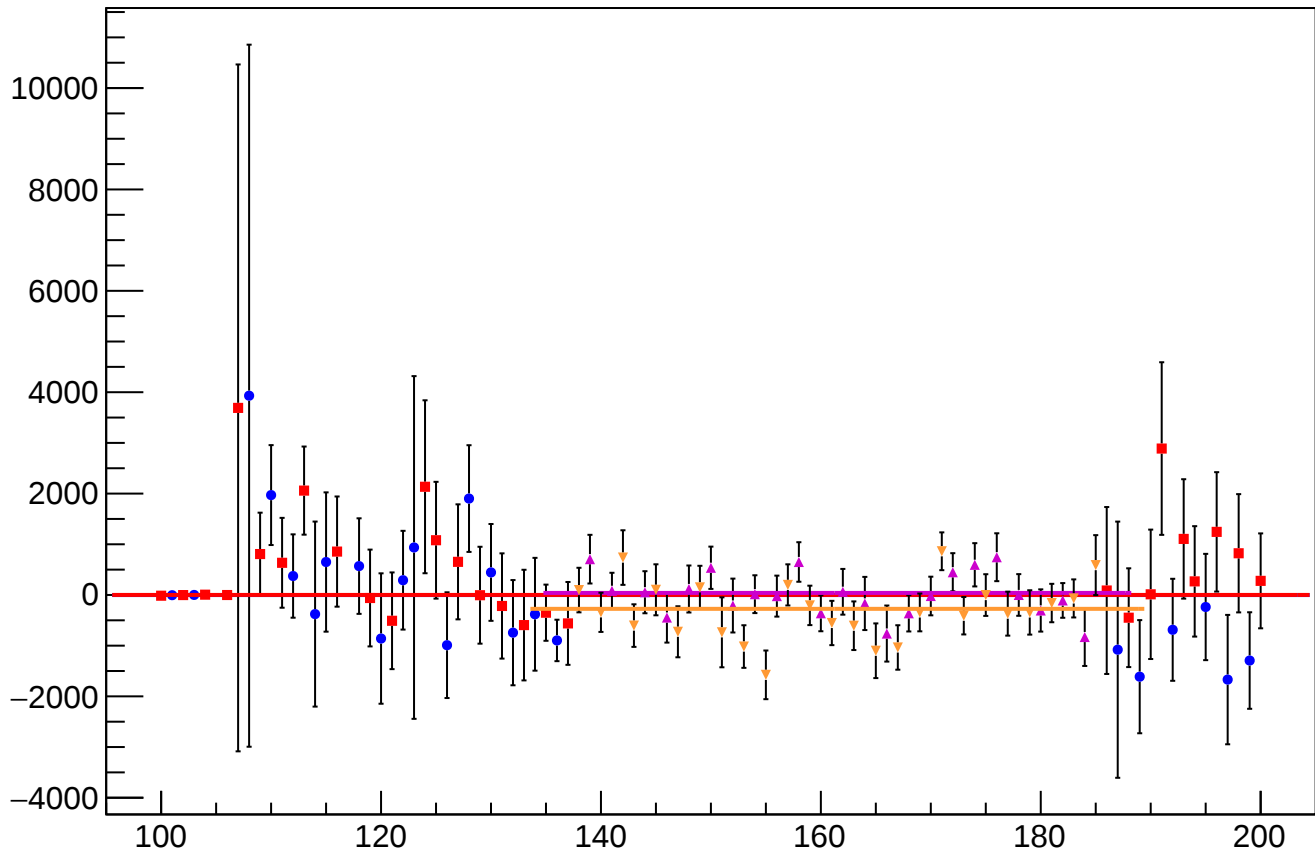
Right: 178.781 $\pm$ 0.028 χ^2 /NDF: 4633812.8/50

In: 182.494 $\pm$ 0.026 χ^2 /NDF:3474437.9/45

Out: 190.864 $\pm$ 0.025 χ^2 /NDF:4588837.1/52

All: 186.714 $\pm$ 0.018 χ^2 /NDF: 8117185.7/98

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.553 ± 2.251 χ^2/NDF : 23.2/22

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.746 ± 2.111 χ^2/NDF : 24.0/27

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

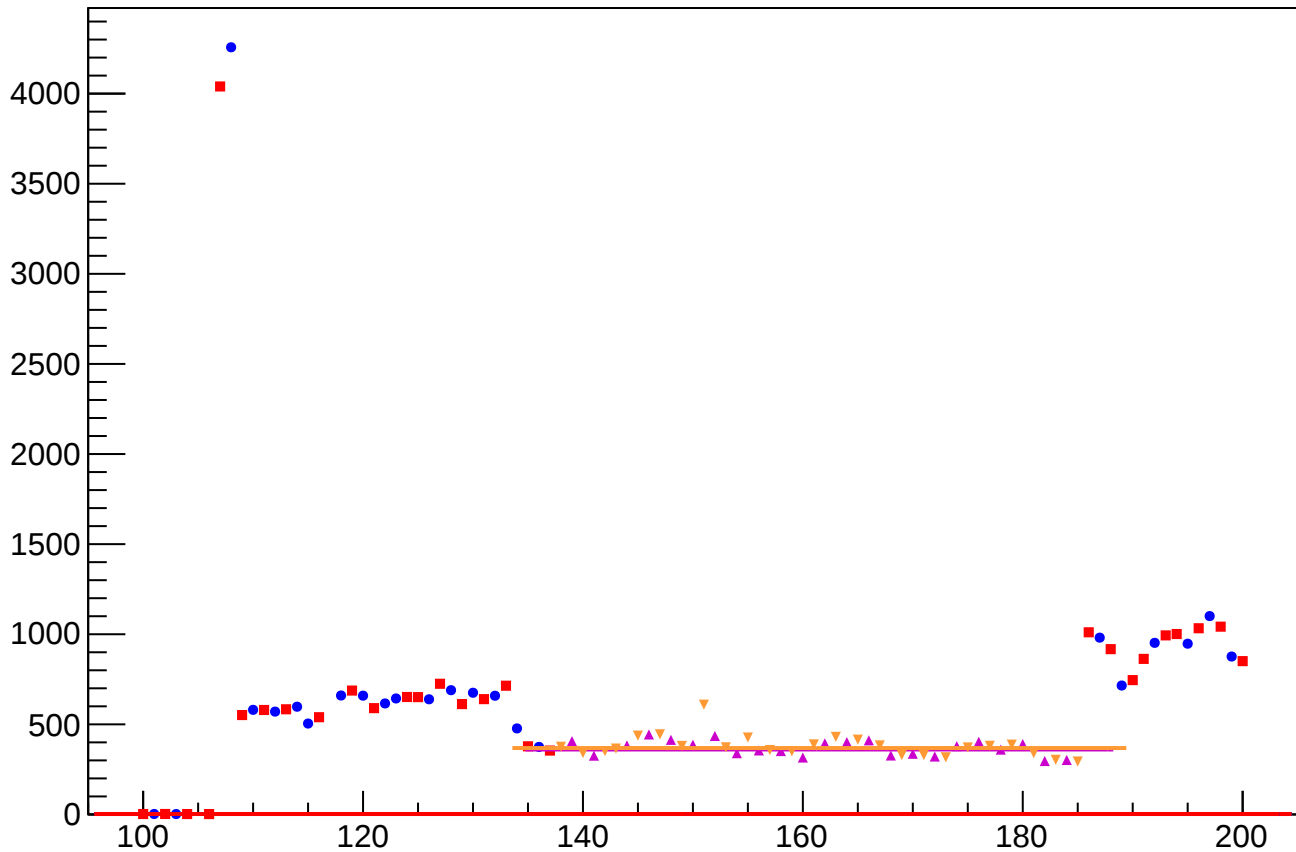
Right: -0.330 ± 1.540 χ^2/NDF : 47.7/50

In: -1.525 ± 2.251 χ^2/NDF : 43.6/45

Out: 0.584 ± 2.110 χ^2/NDF : 72.2/52

All: -0.403 ± 1.540 χ^2/NDF : 116.3/98

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.477 $\pm$ 0.002 χ^2 /NDF: 18356247.7/22

Left Out: 368.500 $\pm$ 0.061 χ^2 /NDF:623011.6/24

Right Out: 2.464 $\pm$ 0.001 χ^2 /NDF: 22657862.2/27

Left In: 360.571 $\pm$ 0.062 χ^2 /NDF:421995.5/22

Left: 364.563 $\pm$ 0.044 χ^2 /NDF: 1053279.8/47

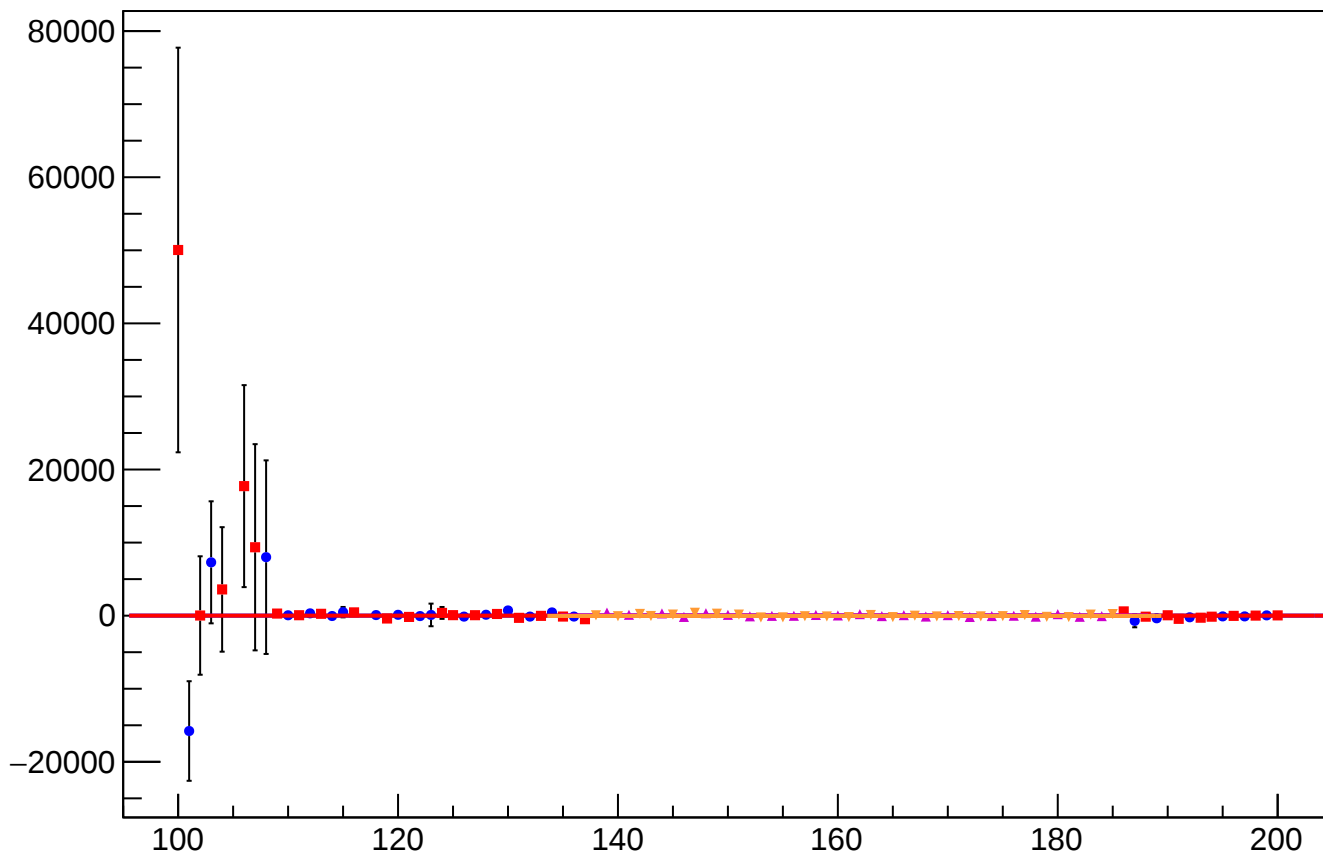
Right: 2.470 $\pm$ 0.001 χ^2 /NDF: 41014146.5/50

In: 2.714 $\pm$ 0.002 χ^2 /NDF:52276301.6/45

Out: 2.680 $\pm$ 0.001 χ^2 /NDF:58769512.3/52

All: 2.696 $\pm$ 0.001 χ^2 /NDF: 111046060.1/98

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 7.078 ± 65.318 $\chi^2/\text{NDF}: 15.7/22$

Left Out: -39.036 ± 49.576 $\chi^2/\text{NDF}: 9.1/24$

Right Out: 3.139 ± 59.849 $\chi^2/\text{NDF}: 16.8/27$

Left In: 28.062 ± 48.032 $\chi^2/\text{NDF}: 9.6/22$

Left: -4.426 ± 34.497 $\chi^2/\text{NDF}: 19.7/47$

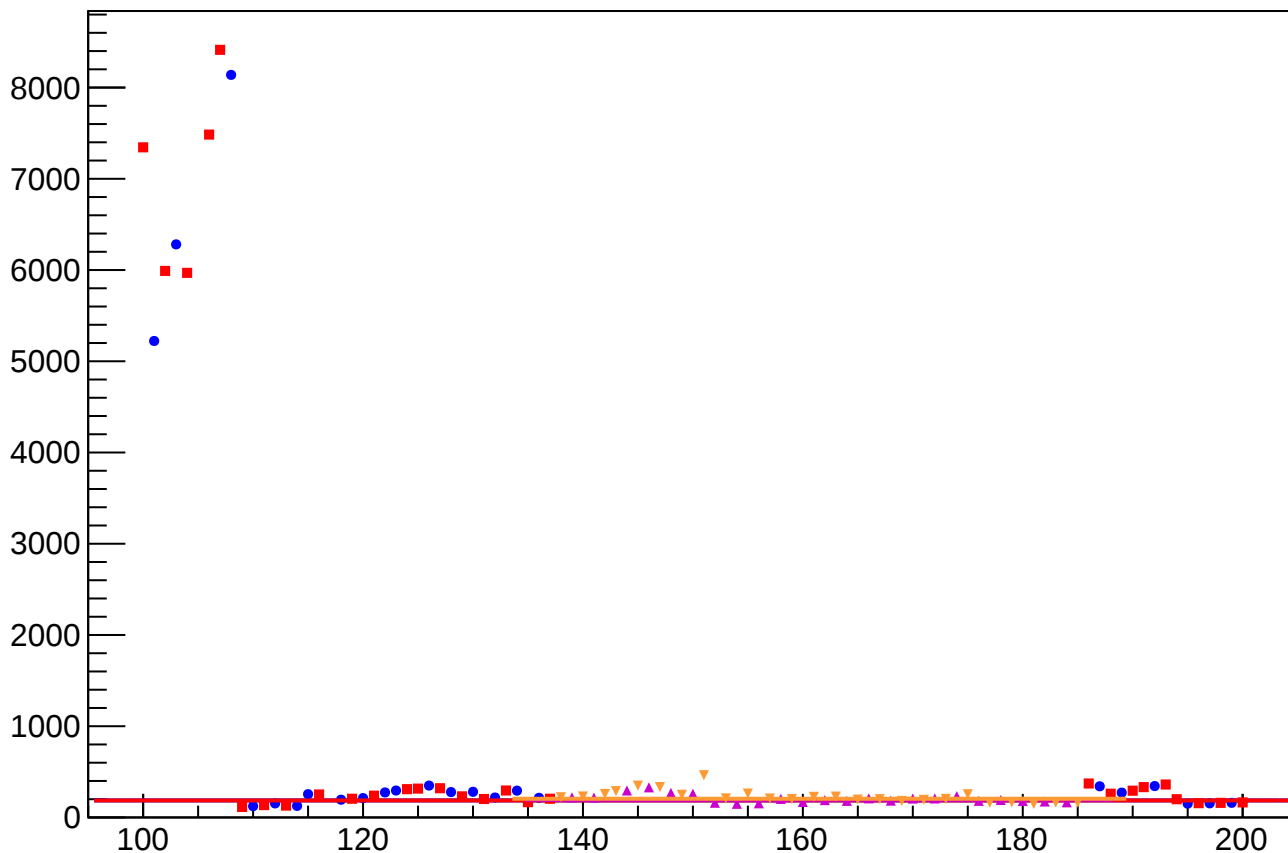
Right: 4.937 ± 44.126 $\chi^2/\text{NDF}: 32.5/50$

In: 20.697 ± 38.696 $\chi^2/\text{NDF}: 25.3/45$

Out: -21.873 ± 38.179 $\chi^2/\text{NDF}: 26.2/52$

All: -0.874 ± 27.177 $\chi^2/\text{NDF}: 52.2/98$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 186.689 $\pm$ 0.046 χ^2 /NDF: 4455553.7/22

Left Out: 205.114 $\pm$ 0.035 χ^2 /NDF:1957484.4/24

Right Out: 186.568 $\pm$ 0.042 χ^2 /NDF: 5321402.2/27

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

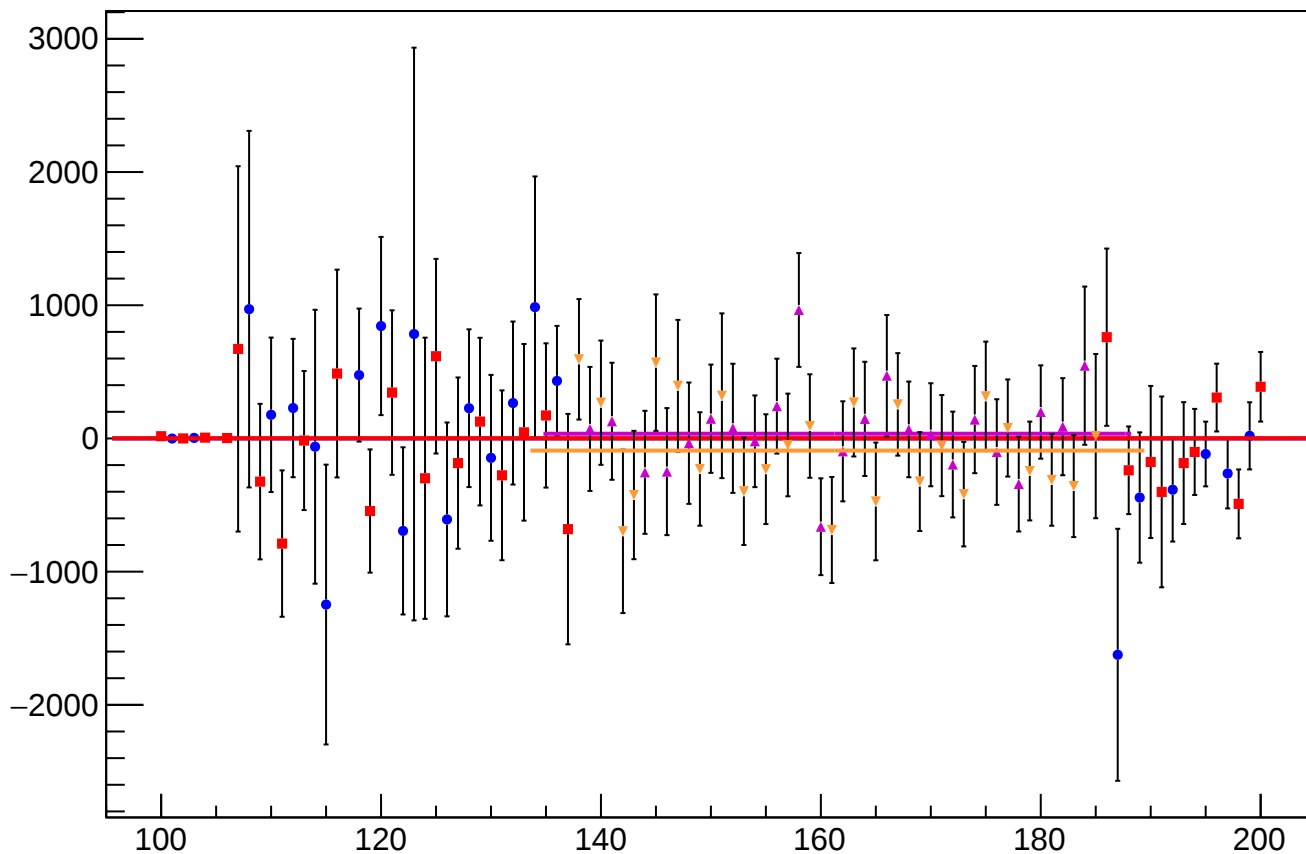
Right: 186.623 $\pm$ 0.031 χ^2 /NDF: 9776959.6/50

In: 191.185 $\pm$ 0.027 χ^2 /NDF:5649625.8/45

Out: 197.567 $\pm$ 0.027 χ^2 /NDF:7392777.4/52

All: 194.419 $\pm$ 0.019 χ^2 /NDF: 13069971.0/98

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.176 $\pm$ 1.736 χ^2/NDF : 16.1/22

Left Out: -90.945 $\pm$ 84.079 χ^2/NDF : 16.4/24

Right Out: 1.321 $\pm$ 1.622 χ^2/NDF : 19.0/27

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

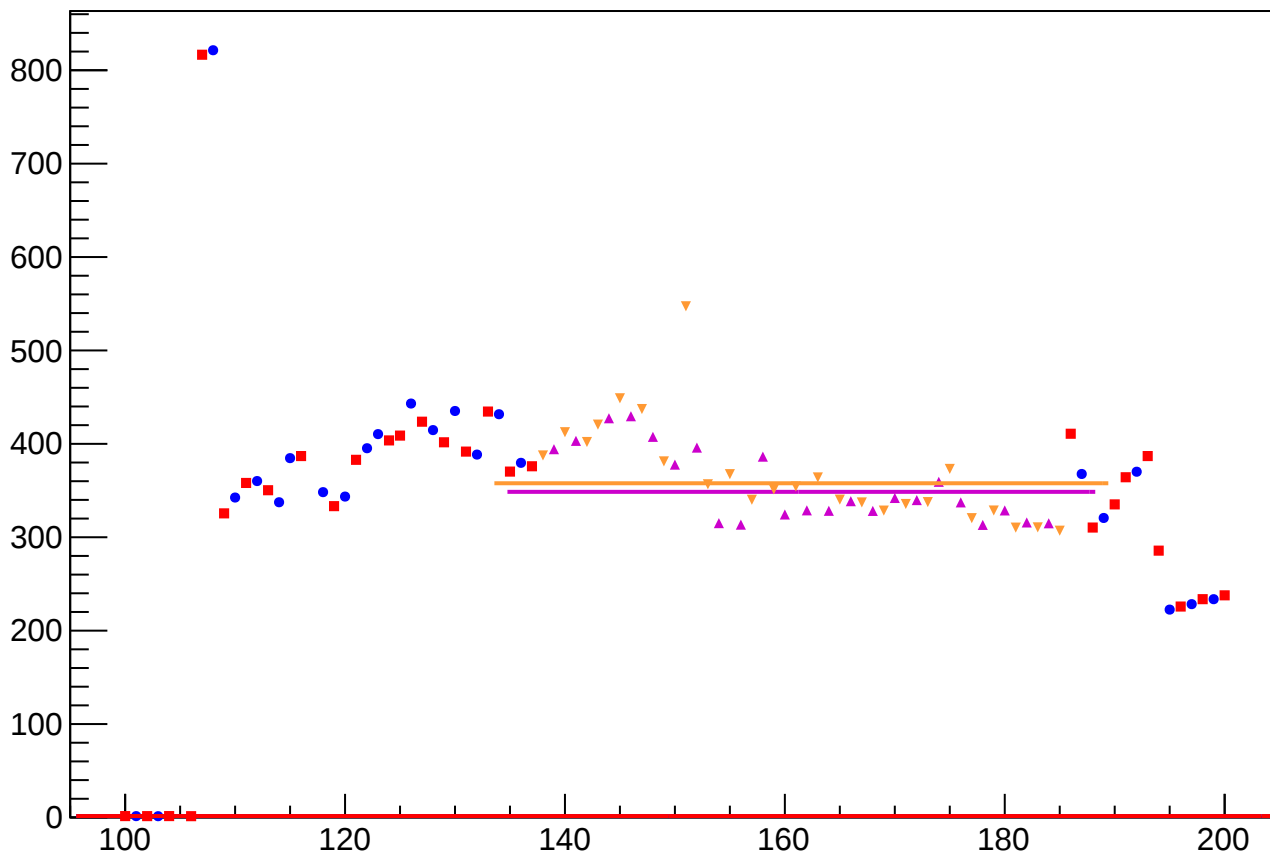
Right: 0.623 $\pm$ 1.185 χ^2/NDF : 35.5/50

In: -0.161 $\pm$ 1.736 χ^2/NDF : 29.7/45

Out: 1.287 $\pm$ 1.622 χ^2/NDF : 36.7/52

All: 0.612 $\pm$ 1.185 χ^2/NDF : 66.8/98

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.497 $\pm$ 0.001 χ^2 /NDF: 18567307.9/22

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF: 547036.5/24

Right Out: 1.505 $\pm$ 0.001 χ^2 /NDF: 22317581.1/27

Left In: 348.611 $\pm$ 0.060 χ^2 /NDF: 362511.2/22

Left: 353.224 $\pm$ 0.042 χ^2 /NDF: 921460.0/47

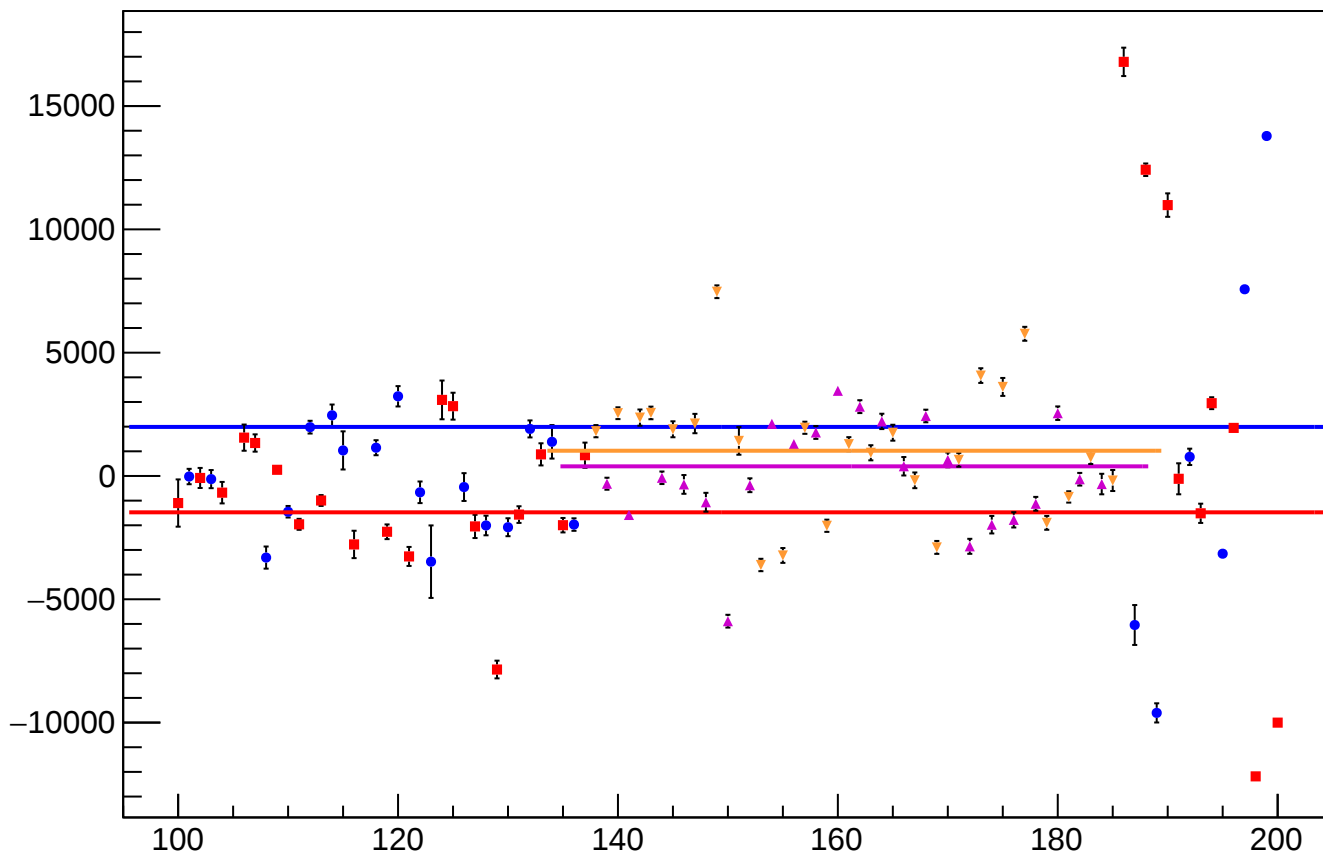
Right: 1.501 $\pm$ 0.001 χ^2 /NDF: 40884911.4/50

In: 1.644 $\pm$ 0.001 χ^2 /NDF: 52758696.2/45

Out: 1.637 $\pm$ 0.001 χ^2 /NDF: 58767383.7/52

All: 1.640 $\pm$ 0.001 χ^2 /NDF: 111526094.3/98

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 1989.096 $\pm$ 64.857 χ^2 /NDF: 8092.9/22

Left Out: 1023.439 $\pm$ 57.338 χ^2 /NDF:2309.4/24

Right Out: -1474.342 $\pm$ 57.714 χ^2 /NDF: 11628.2/27

Left In: 390.237 $\pm$ 54.931 χ^2 /NDF:1584.9/22

Left: 693.270 $\pm$ 39.666 χ^2 /NDF: 3957.9/47

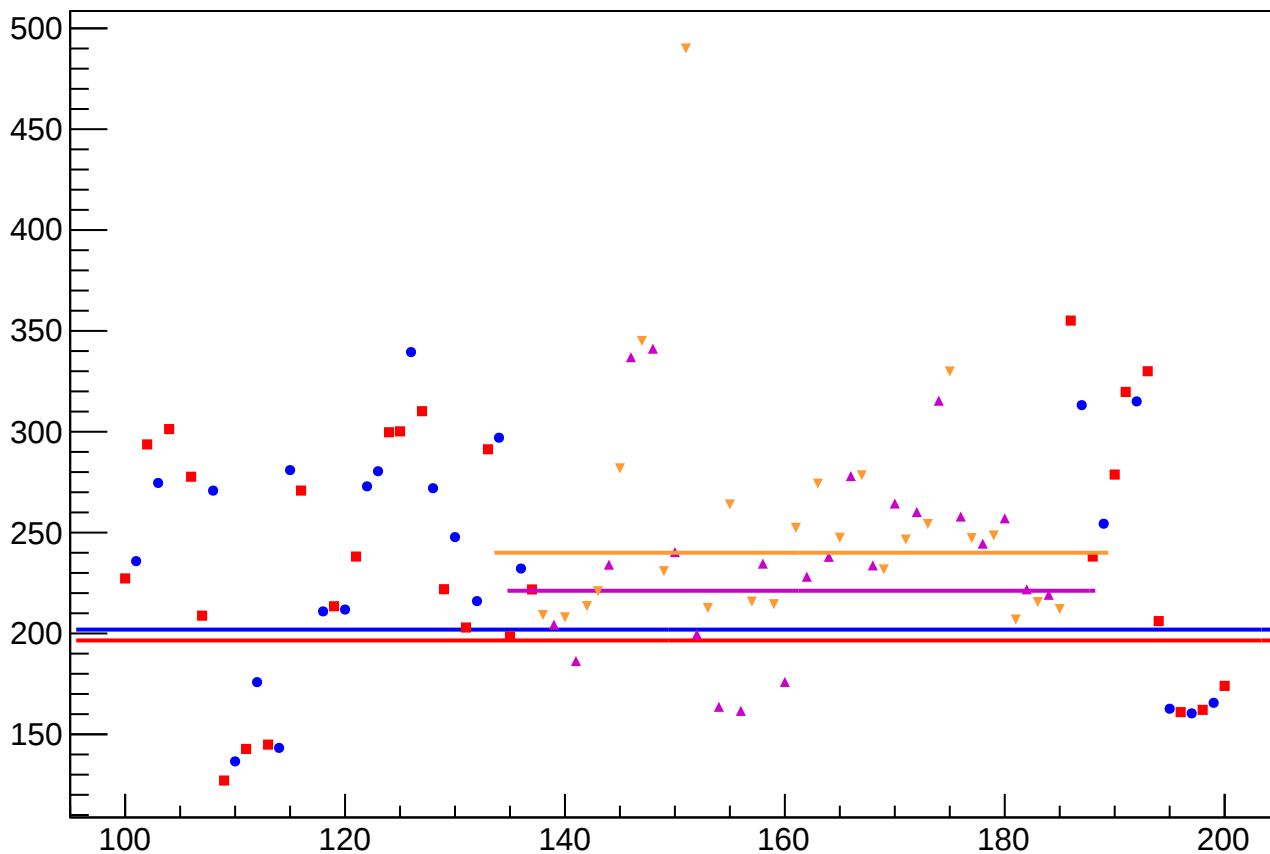
Right: 56.207 $\pm$ 43.115 χ^2 /NDF: 21312.6/50

In: 1058.084 $\pm$ 41.917 χ^2 /NDF:10031.7/45

Out: -217.297 $\pm$ 40.676 χ^2 /NDF:14880.2/52

All: 401.236 $\pm$ 29.191 χ^2 /NDF: 25388.7/98

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 201.910 ± 0.046 χ^2/NDF : 1315734.1/22

Left Out: 240.019 ± 0.041 χ^2/NDF : 1002427.9/24

Right Out: 196.533 ± 0.041 χ^2/NDF : 1945583.1/27

Left In: 221.173 ± 0.039 χ^2/NDF : 1342517.8/22

Left: 230.192 ± 0.028 χ^2/NDF : 2457612.6/47

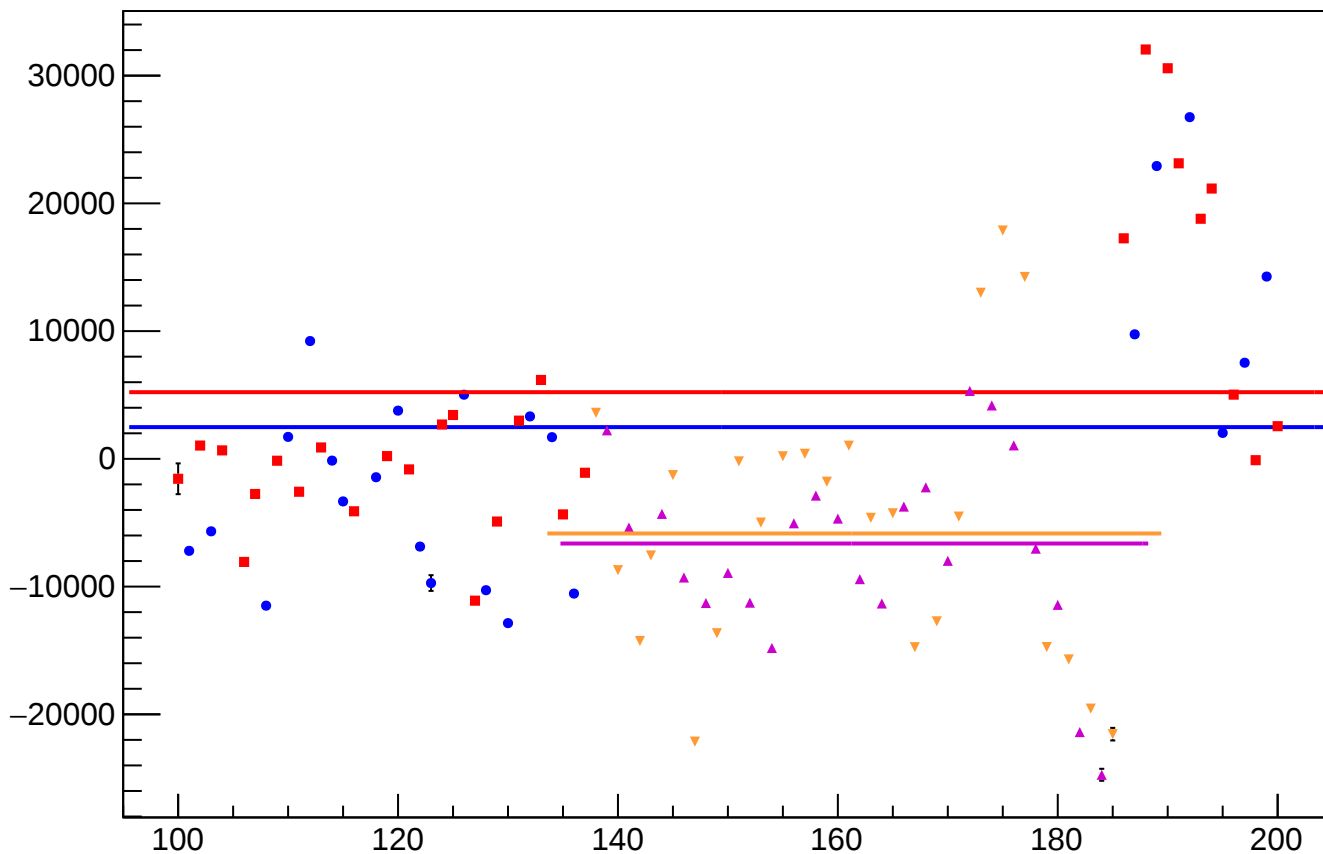
Right: 198.909 ± 0.030 χ^2/NDF : 3268987.7/50

In: 213.127 ± 0.030 χ^2/NDF : 2760984.3/45

Out: 218.418 ± 0.029 χ^2/NDF : 3519448.1/52

All: 215.852 ± 0.021 χ^2/NDF : 6296847.4/98

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2483.982+/-40.225

χ^2/NDF : 77136.7/22

Left: -6220.862+/-25.800

χ^2/NDF : 85367.5/47

Left Out: -5841.615+/-35.848

χ^2/NDF : 63397.3/24

Right: 3990.086+/-26.963

χ^2/NDF : 180970.9/50

Right Out: 5218.959+/-36.335

χ^2/NDF : 101288.4/27

In: -2432.519+/-27.295

χ^2/NDF : 126563.2/45

Out: -385.941+/-25.519

χ^2/NDF : 211643.1/52

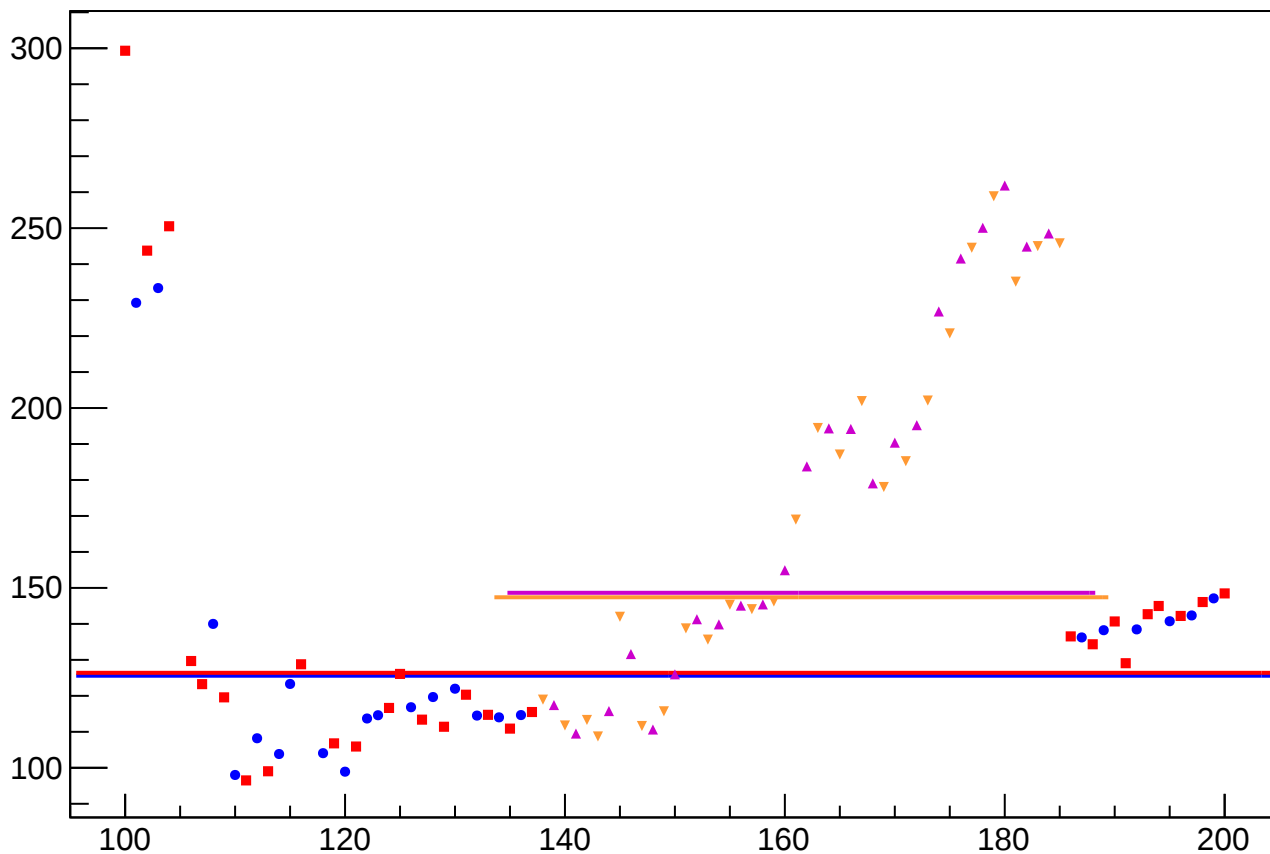
Left In: -6628.388+/-37.160

χ^2/NDF : 21738.0/22

All: -1340.453+/-18.641

χ^2/NDF : 341206.2/90

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 125.598+/-0.028 χ^2/NDF : 783626.0/22

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 126.403+/-0.026 χ^2/NDF : 922805.7/27

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

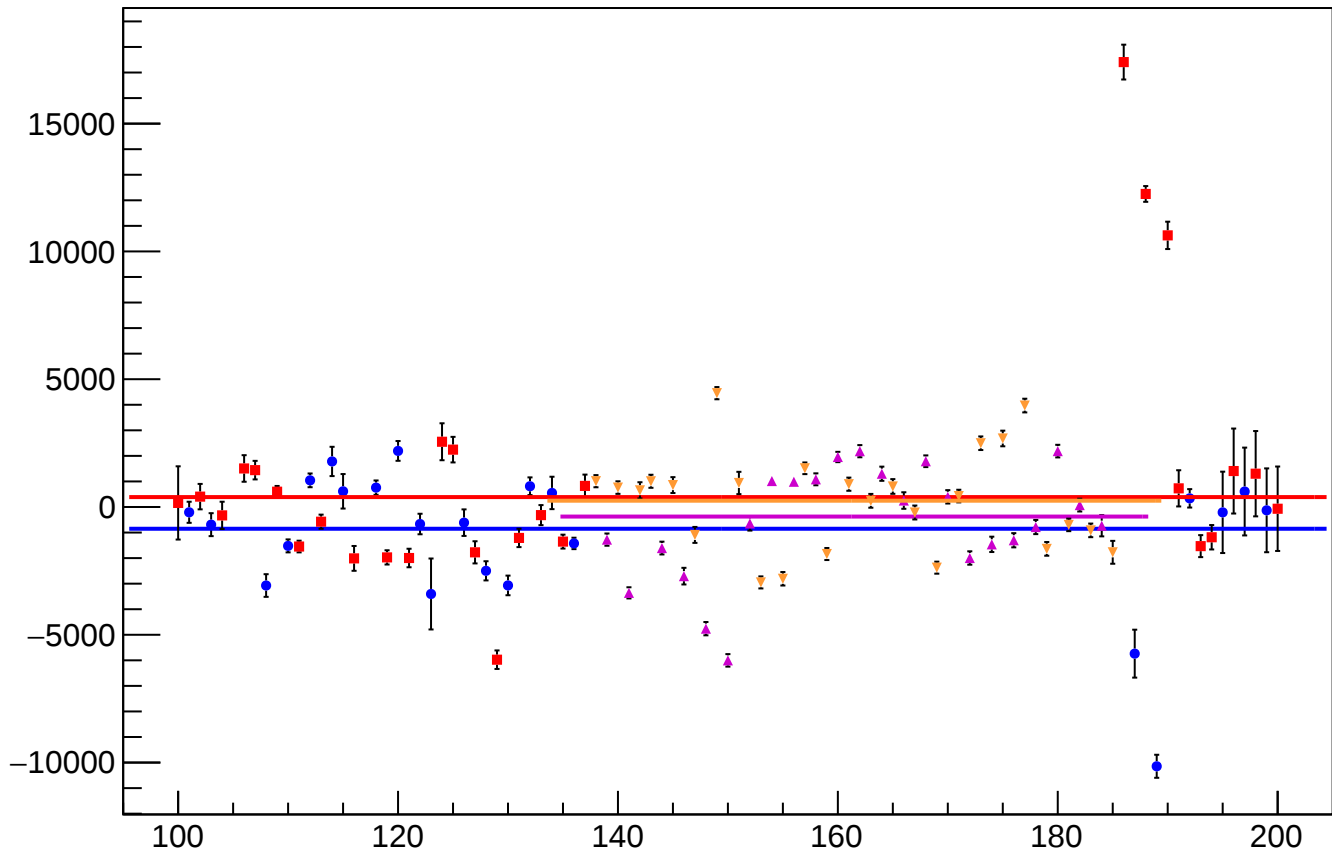
Right: 126.041+/-0.019 χ^2/NDF : 1706872.3/50

In: 138.031+/-0.019 χ^2/NDF : 3553304.2/45

Out: 137.041+/-0.018 χ^2/NDF : 3778242.4/52

All: 137.503+/-0.013 χ^2/NDF : 7332951.3/98

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -851.814 ± 84.522 $\chi^2/\text{NDF}: 760.5/22$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 387.523 ± 75.208 $\chi^2/\text{NDF}: 3160.8/27$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

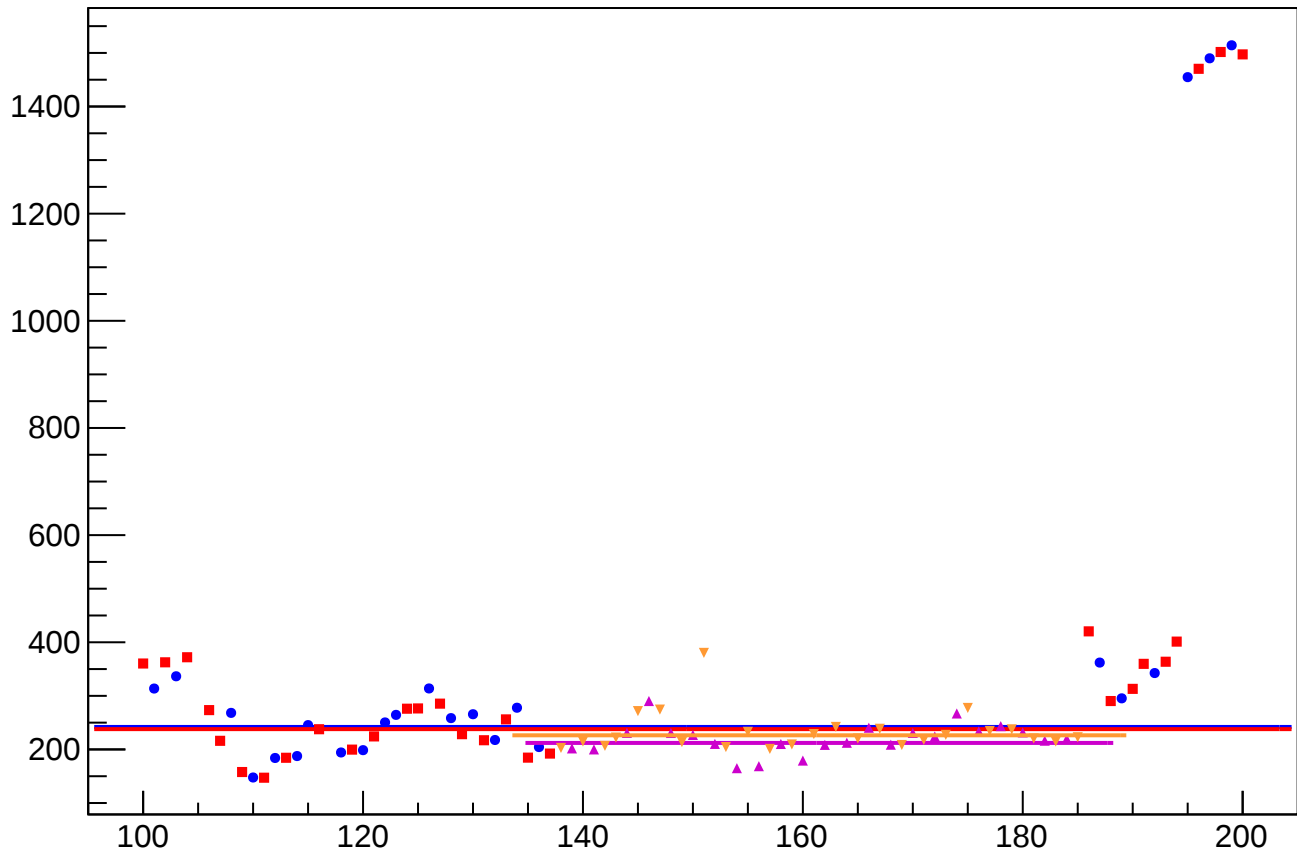
Right: -160.125 ± 56.186 $\chi^2/\text{NDF}: 4041.3/50$

In: -505.139 ± 44.223 $\chi^2/\text{NDF}: 2581.9/45$

Out: 293.622 ± 43.590 $\chi^2/\text{NDF}: 4518.0/52$

All: -100.007 ± 31.044 $\chi^2/\text{NDF}: 7265.4/98$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 241.954+/-0.060 χ^2/NDF : 4386456.1/22

Left Out: 226.376+/-0.038 χ^2/NDF : 521770.1/24

Right Out: 237.908+/-0.053 χ^2/NDF : 5231567.0/27

Left In: 212.145+/-0.037 χ^2/NDF : 591698.6/22

Left: 219.044+/-0.026 χ^2/NDF : 1186390.8/47

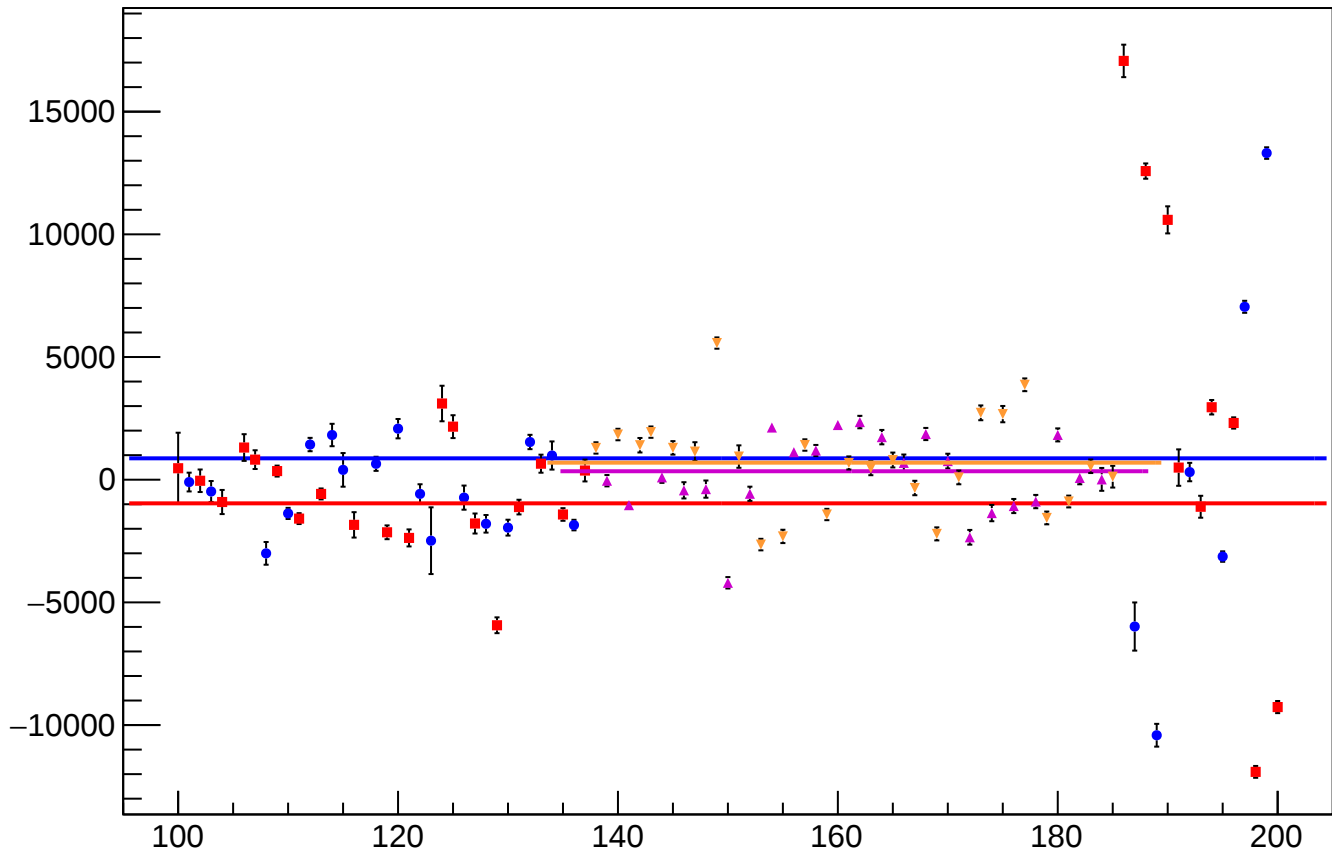
Right: 239.696+/-0.040 χ^2/NDF : 9620580.7/50

In: 220.305+/-0.031 χ^2/NDF : 5158820.8/45

Out: 230.250+/-0.031 χ^2/NDF : 5784566.9/52

All: 225.349+/-0.022 χ^2/NDF : 10994684.7/98

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 871.076+/-69.056 χ^2/NDF : 4952.7/22

Left Out: 694.326+/-54.246 χ^2/NDF :1422.1/24

Right Out: -963.655+/-62.958 χ^2/NDF : 7111.4/27

Left In: 344.578+/-52.954 χ^2/NDF :985.0/22

Left: 515.236+/-37.893 χ^2/NDF : 2428.4/47

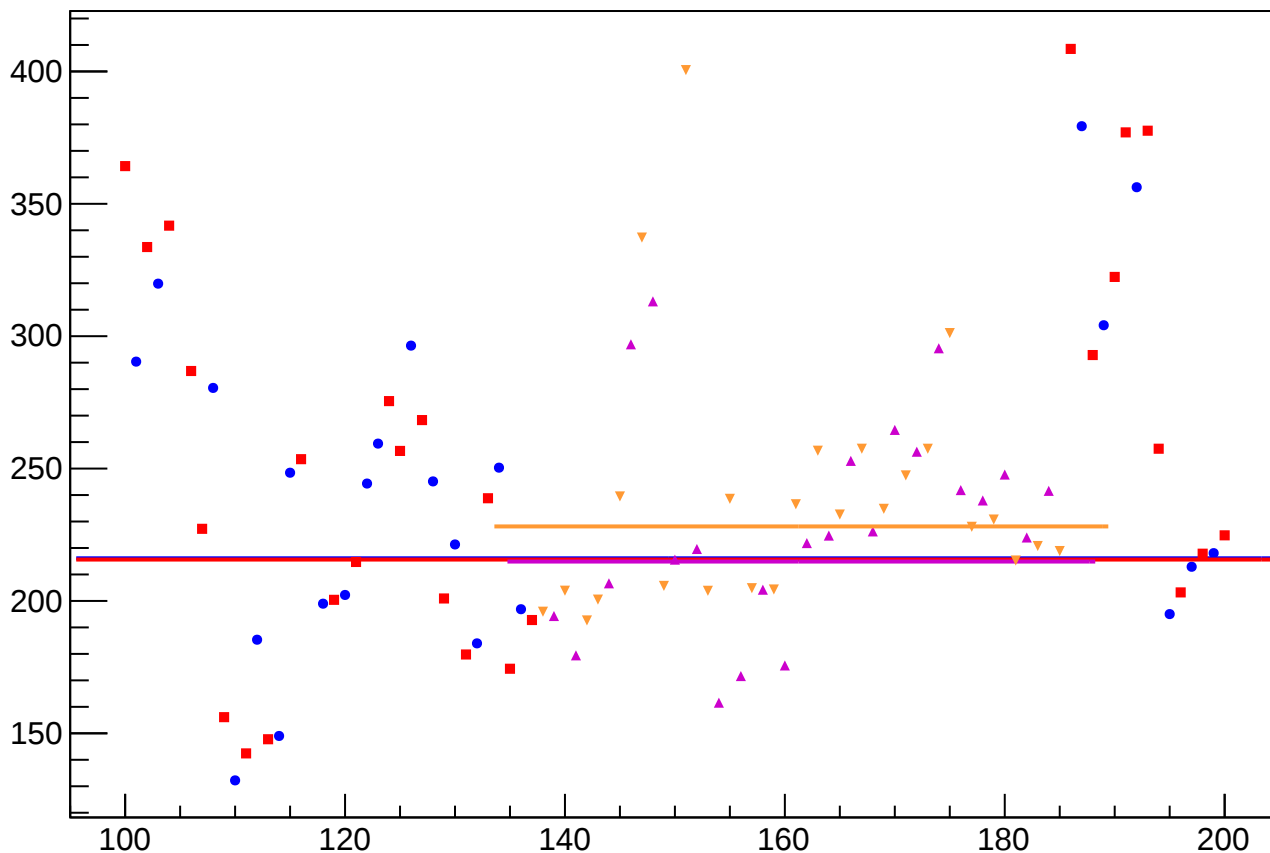
Right: -130.869+/-46.525 χ^2/NDF : 12449.5/50

In: 539.532+/-42.021 χ^2/NDF :5974.3/45

Out: -12.113+/-41.096 χ^2/NDF :8931.5/52

All: 257.566+/-29.381 χ^2/NDF : 14993.9/98

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.107 $\pm$ 0.049 χ^2 /NDF: 1142887.1/22

Left Out: 228.144 $\pm$ 0.038 χ^2 /NDF: 828399.3/24

Right Out: 215.630 $\pm$ 0.045 χ^2 /NDF: 1816518.0/27

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

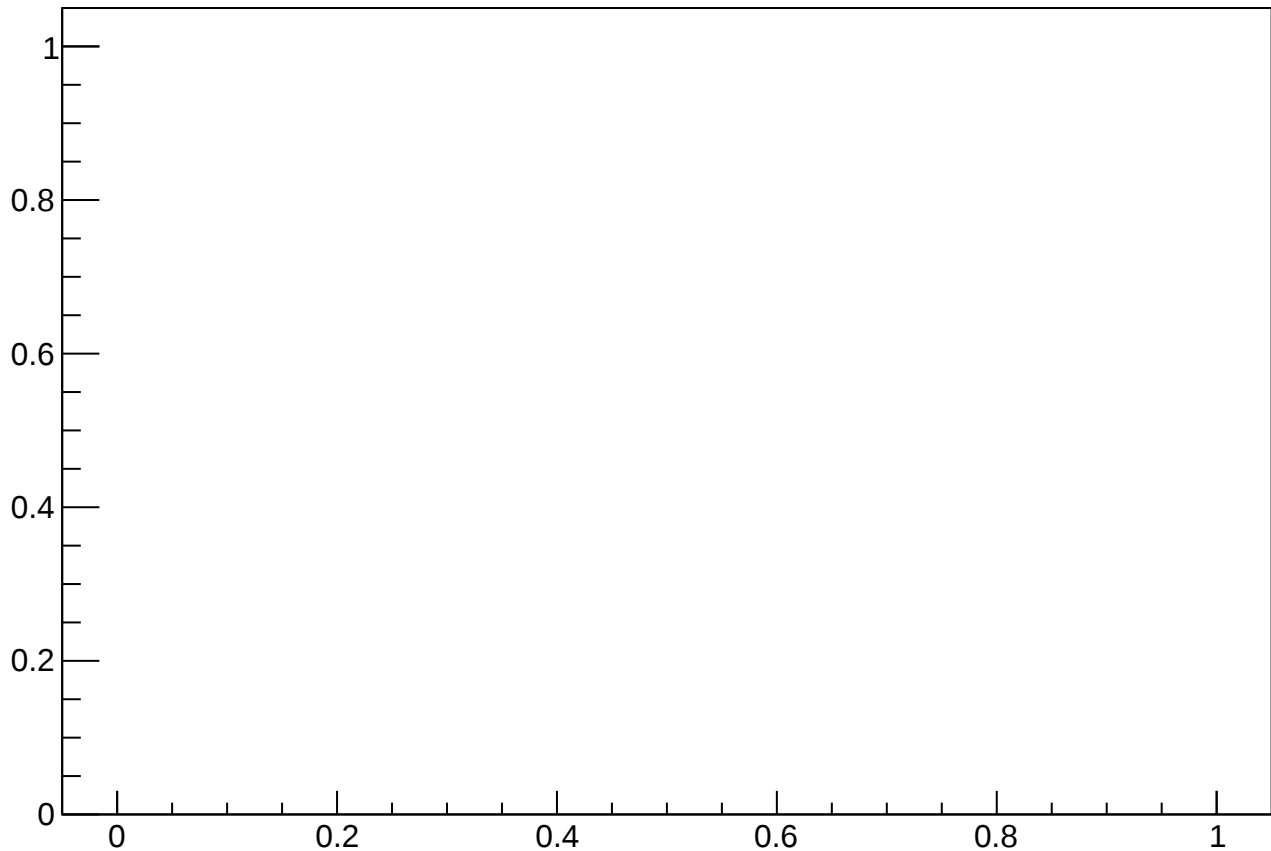
Right: 215.846 $\pm$ 0.033 χ^2 /NDF: 2959457.2/50

In: 215.333 $\pm$ 0.030 χ^2 /NDF: 2180795.4/45

Out: 222.812 $\pm$ 0.029 χ^2 /NDF: 2690266.1/52

All: 219.156 $\pm$ 0.021 χ^2 /NDF: 4903441.1/98

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

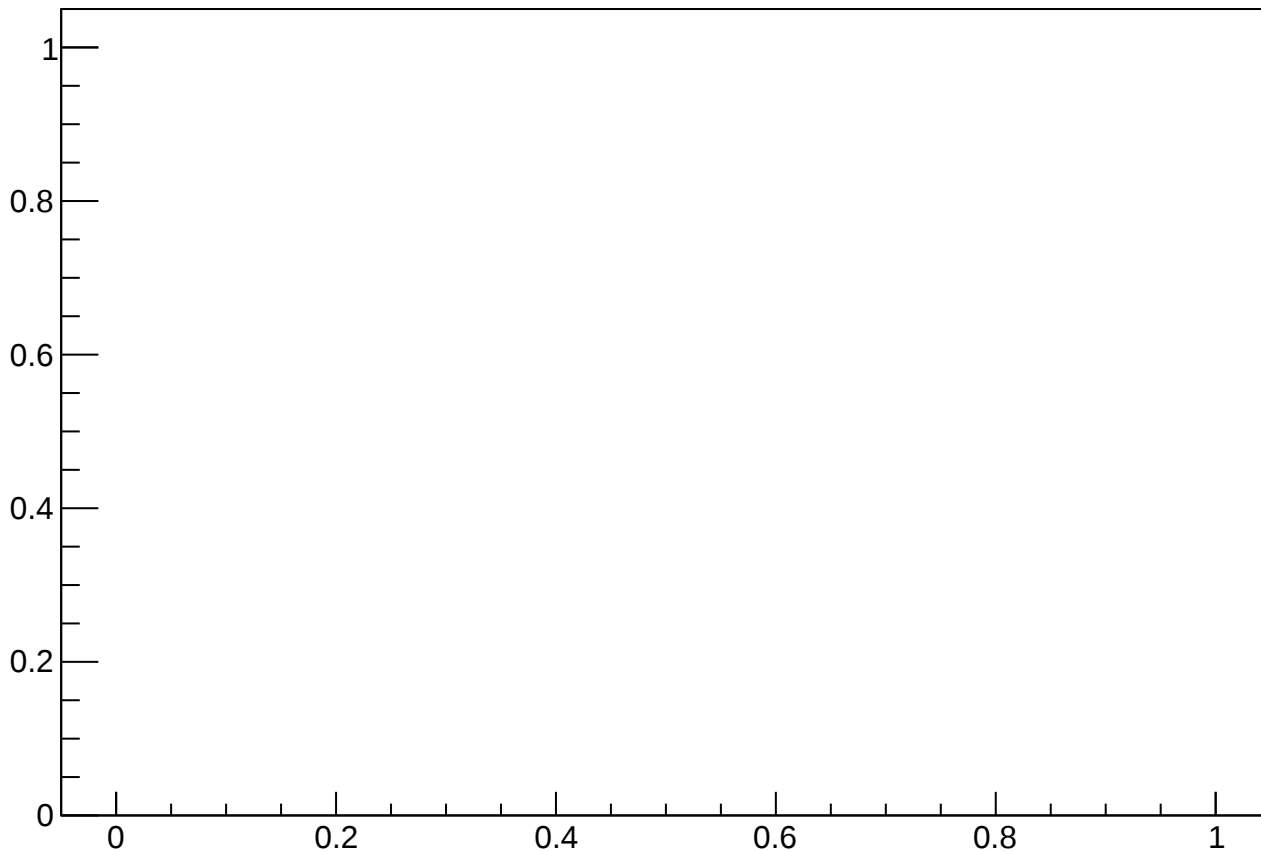
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

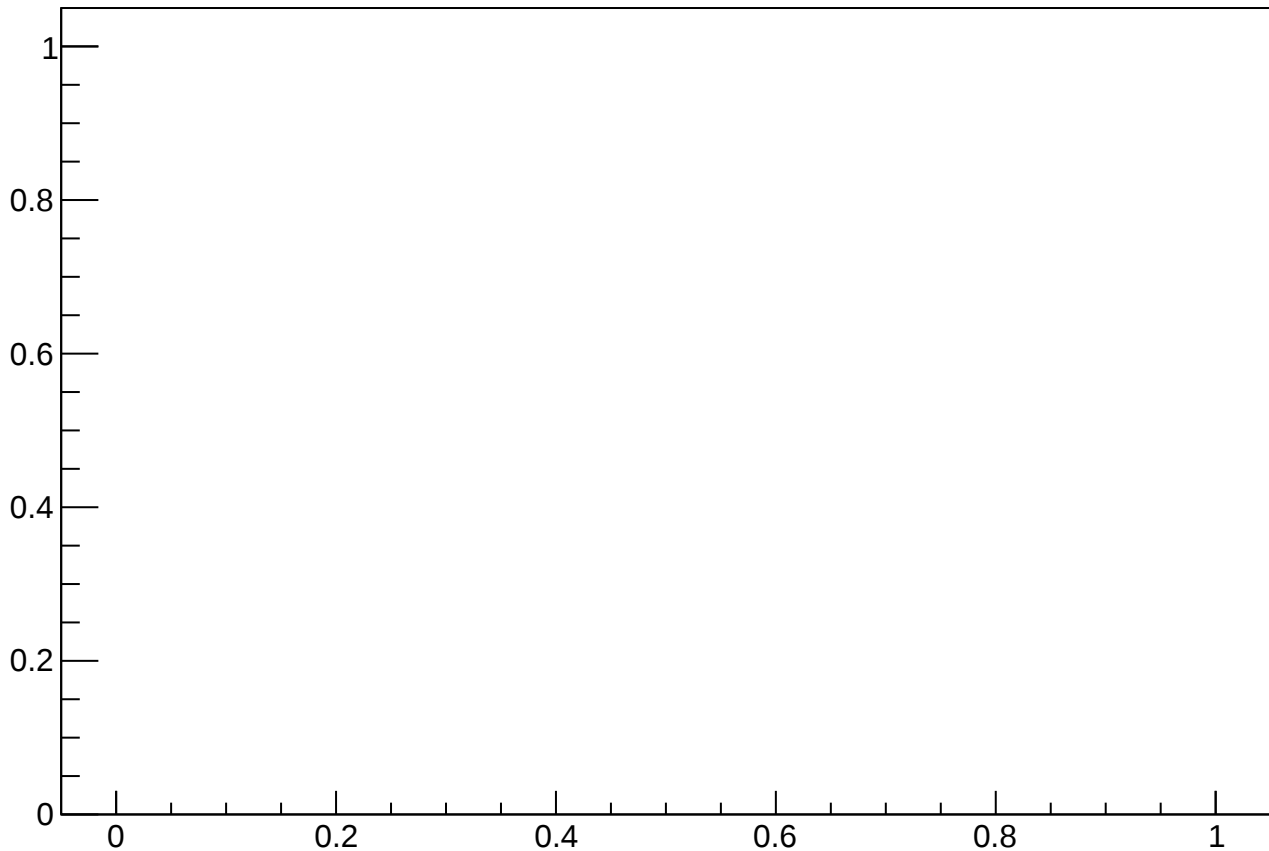
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

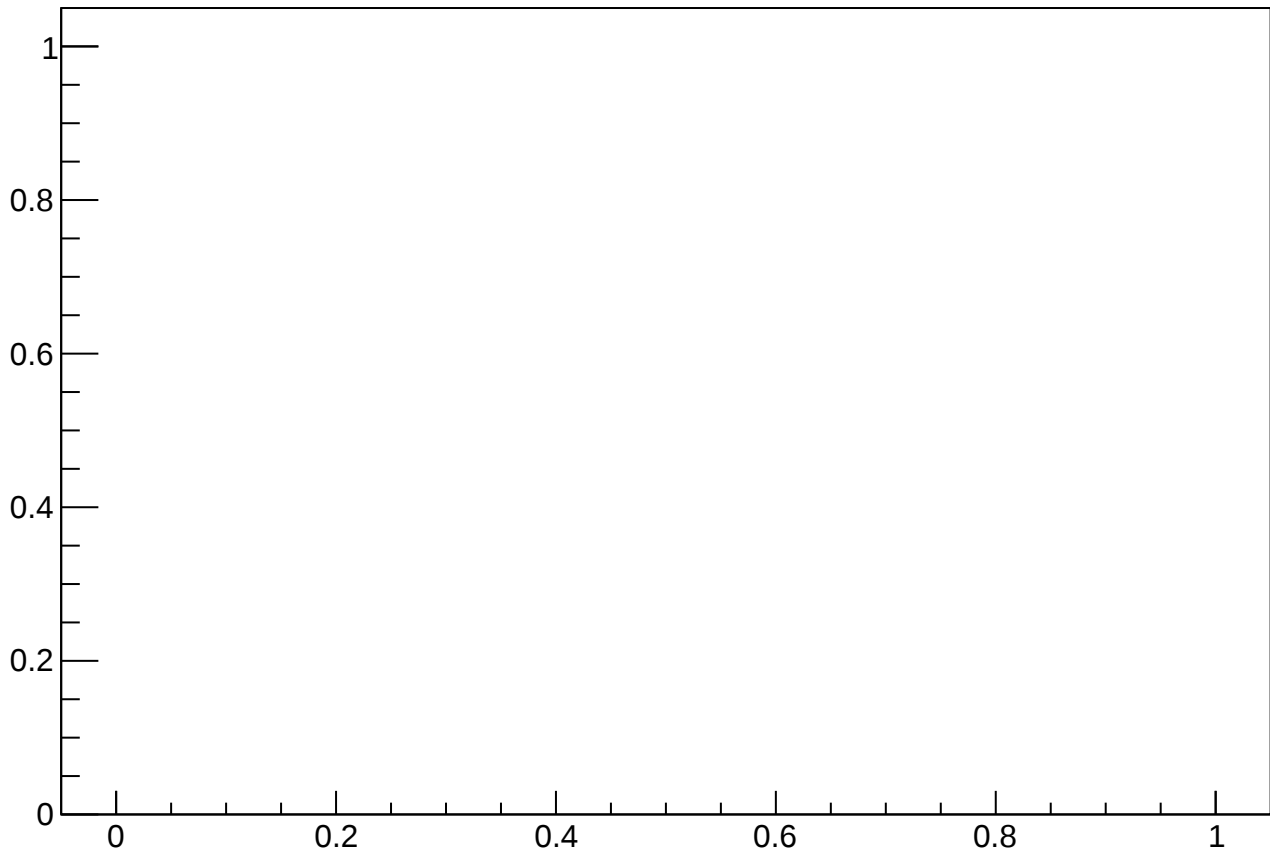
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

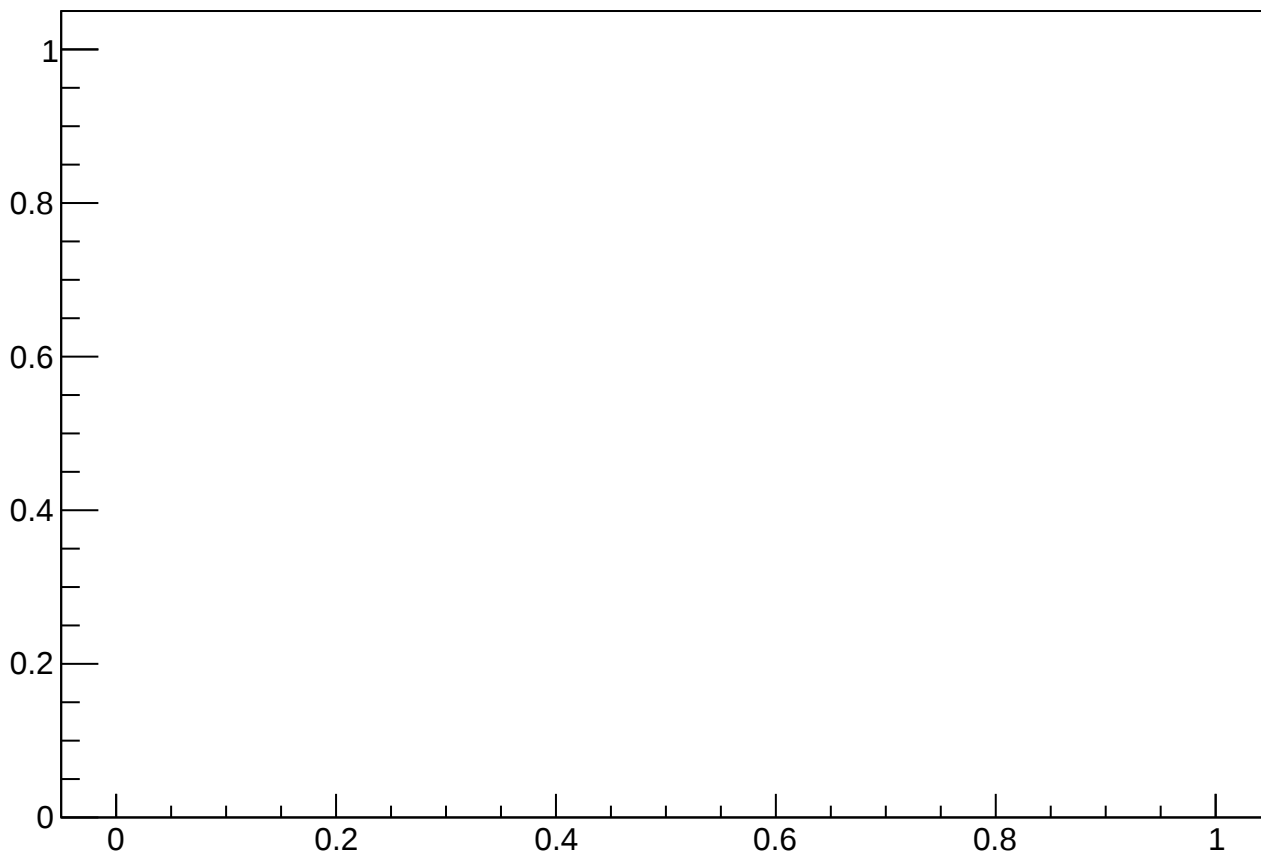
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

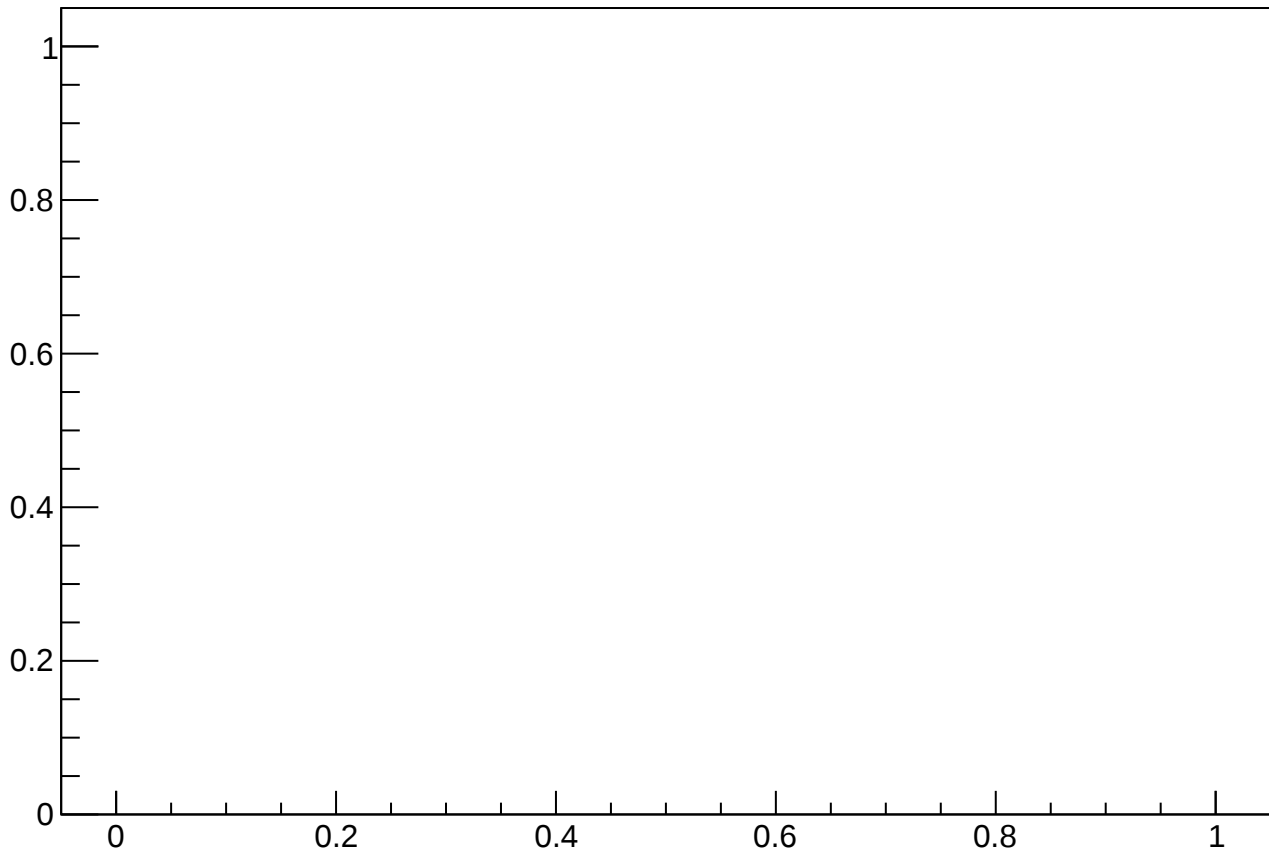
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

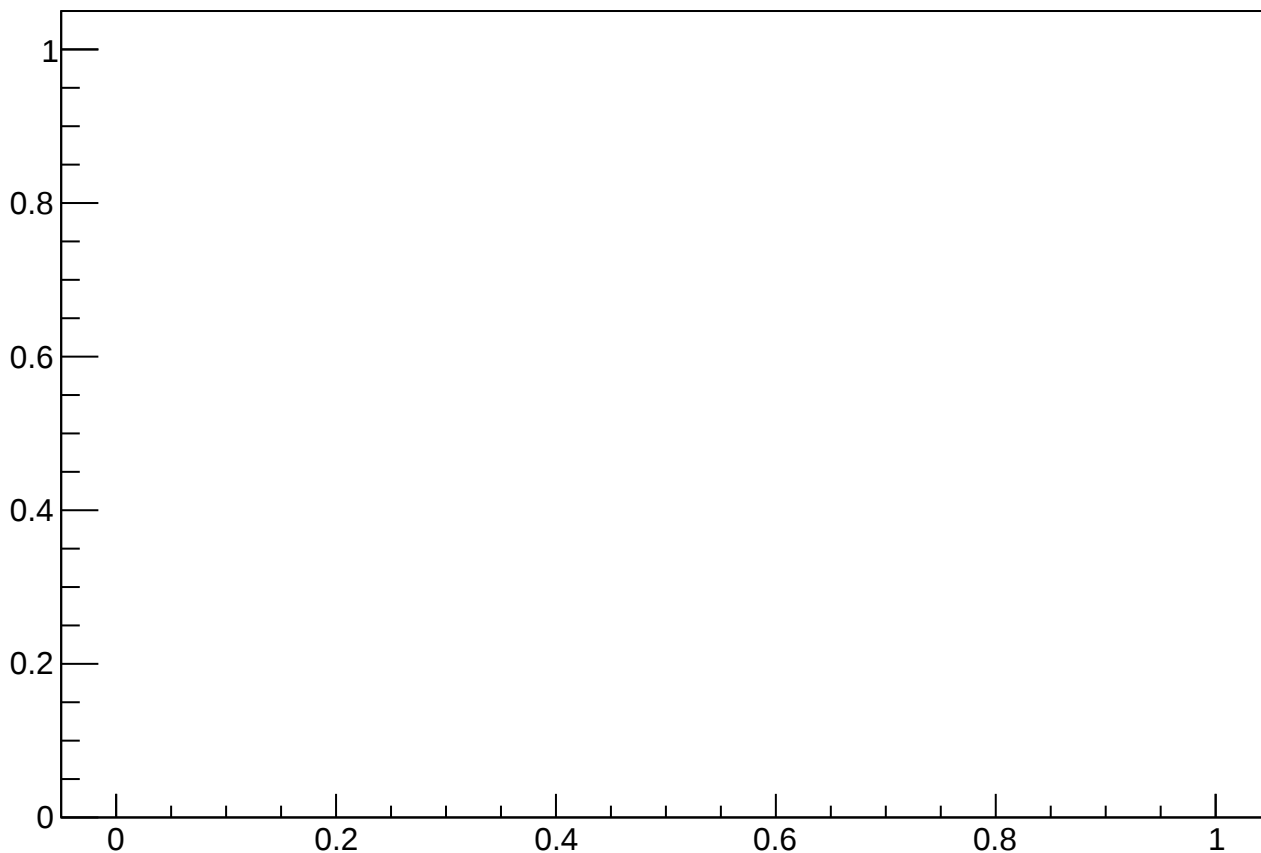
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

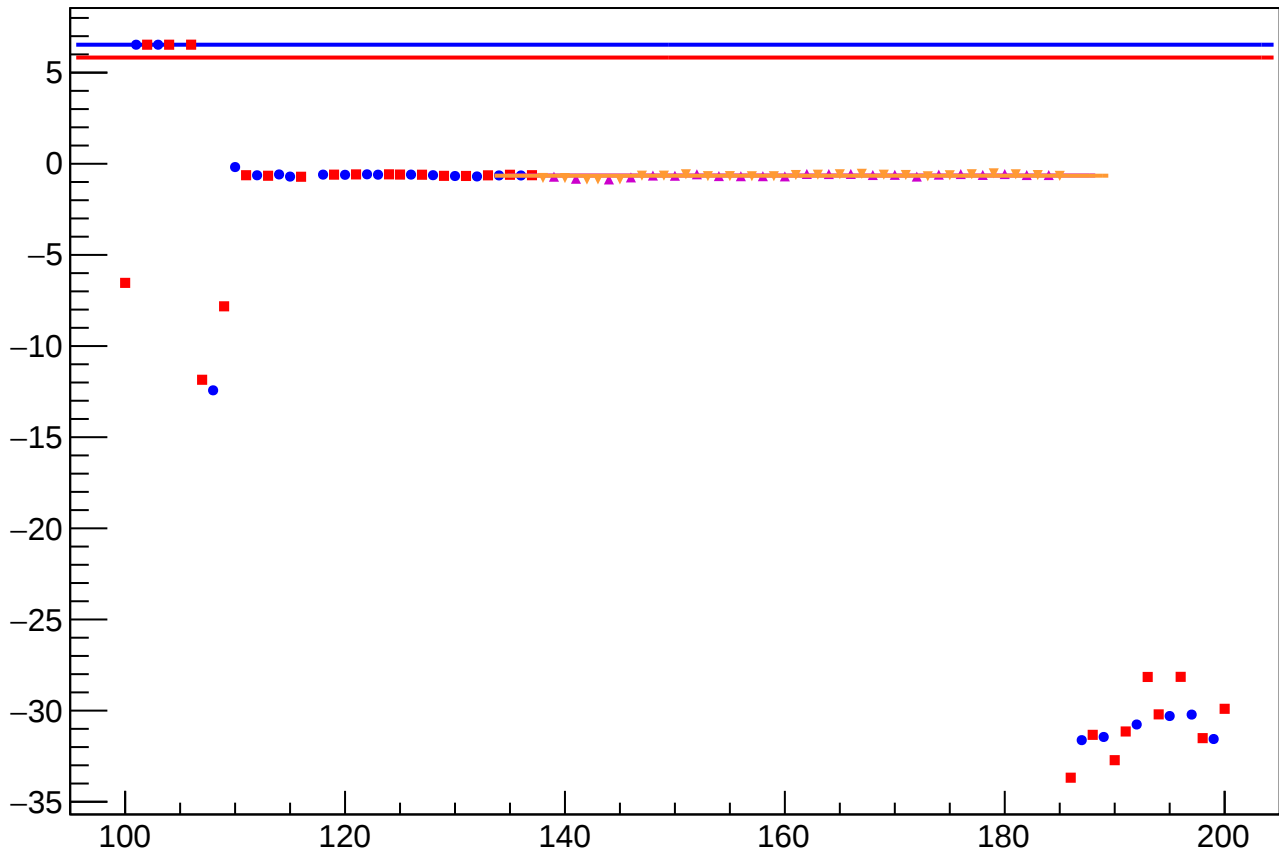
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 127859522584.1/22

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962297384310.6/27

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

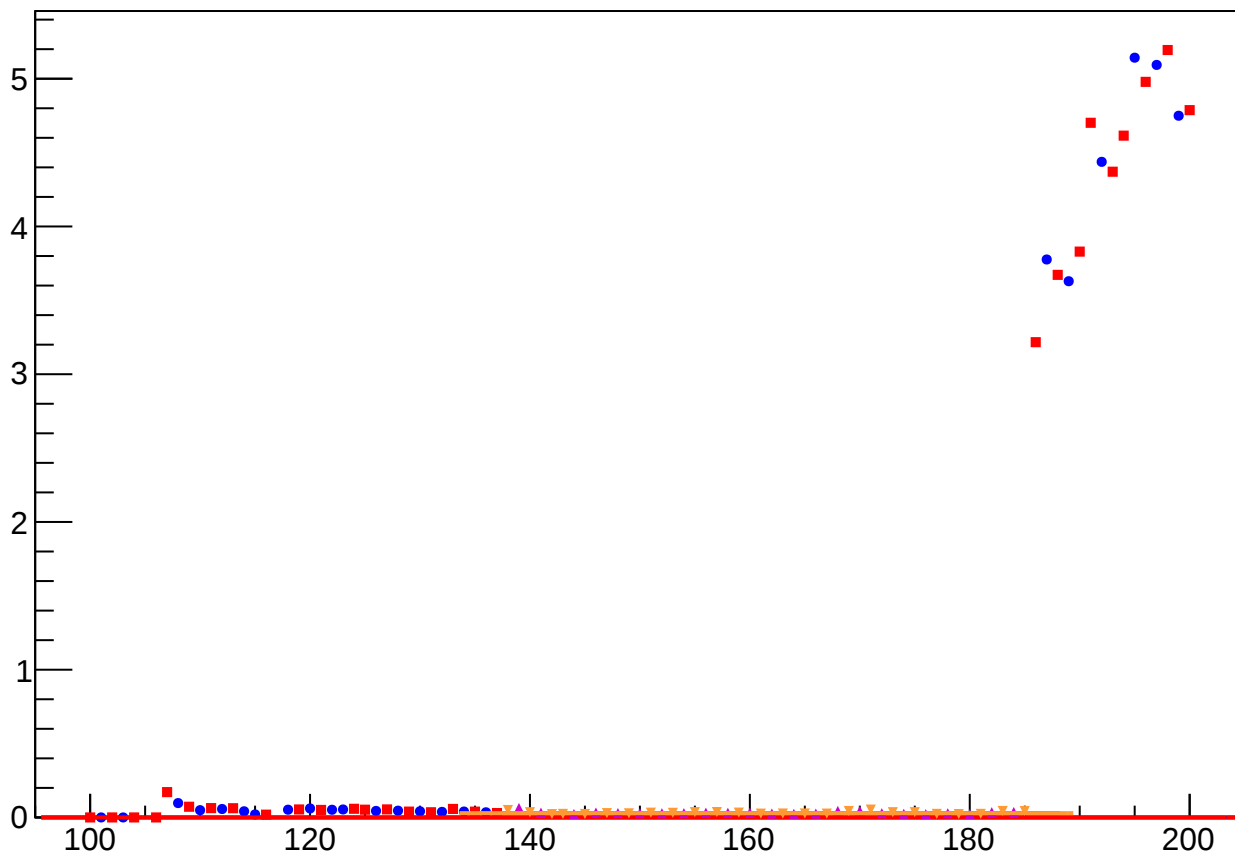
Right: 6.155+/-0.000 χ^2/NDF : 776094121866320.6/47

In: 6.530+/-0.000 χ^2/NDF : 961978112648.7/45

Out: 5.826+/-0.000 χ^2/NDF : 756673314274568.1/45

All: 6.153+/-0.000 χ^2/NDF : 77762755375013.0/92

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16555443.0/22

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 20763011.0/27

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

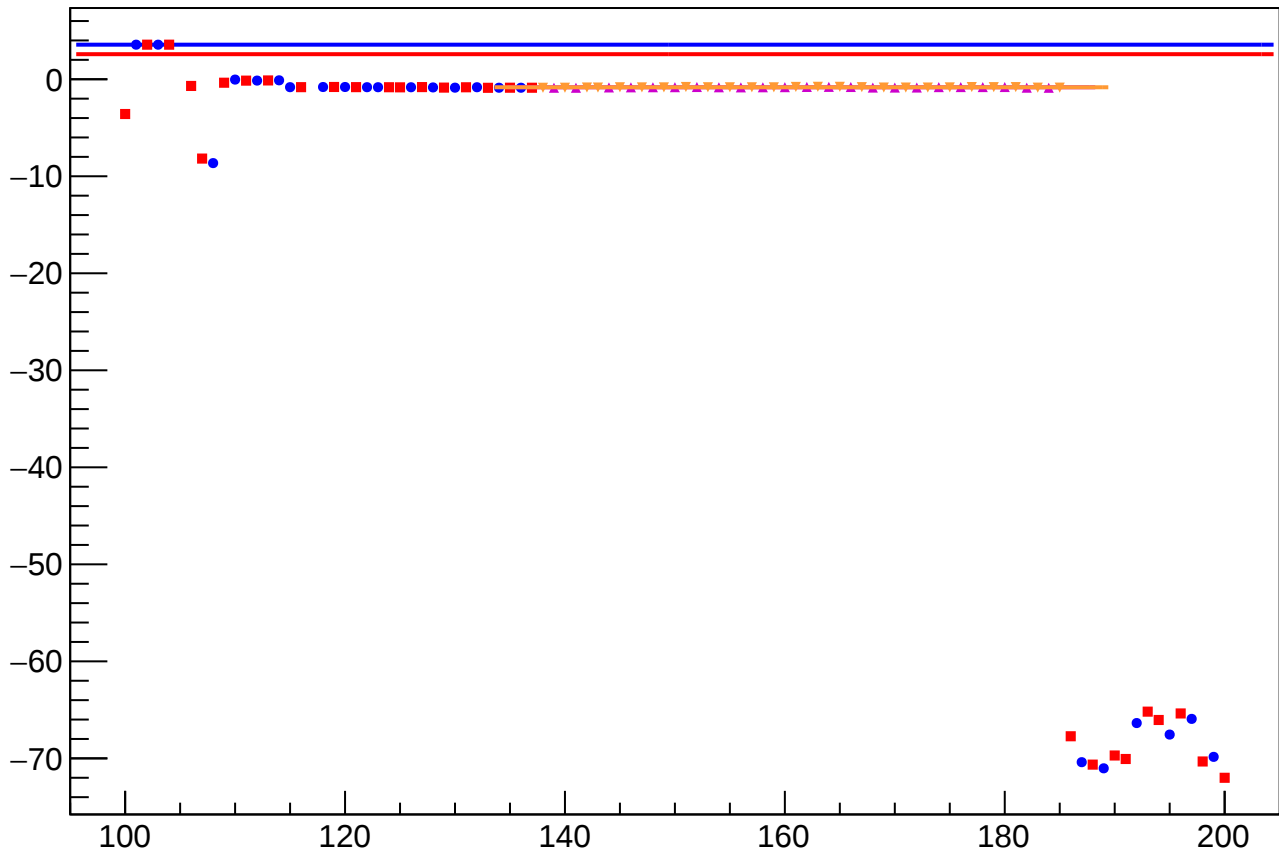
Right: 0.000+/-0.000 χ^2/NDF : 37318701.1/50

In: 0.000+/-0.000 χ^2/NDF :44733247.8/45

Out: 0.000+/-0.000 χ^2/NDF :50731047.1/52

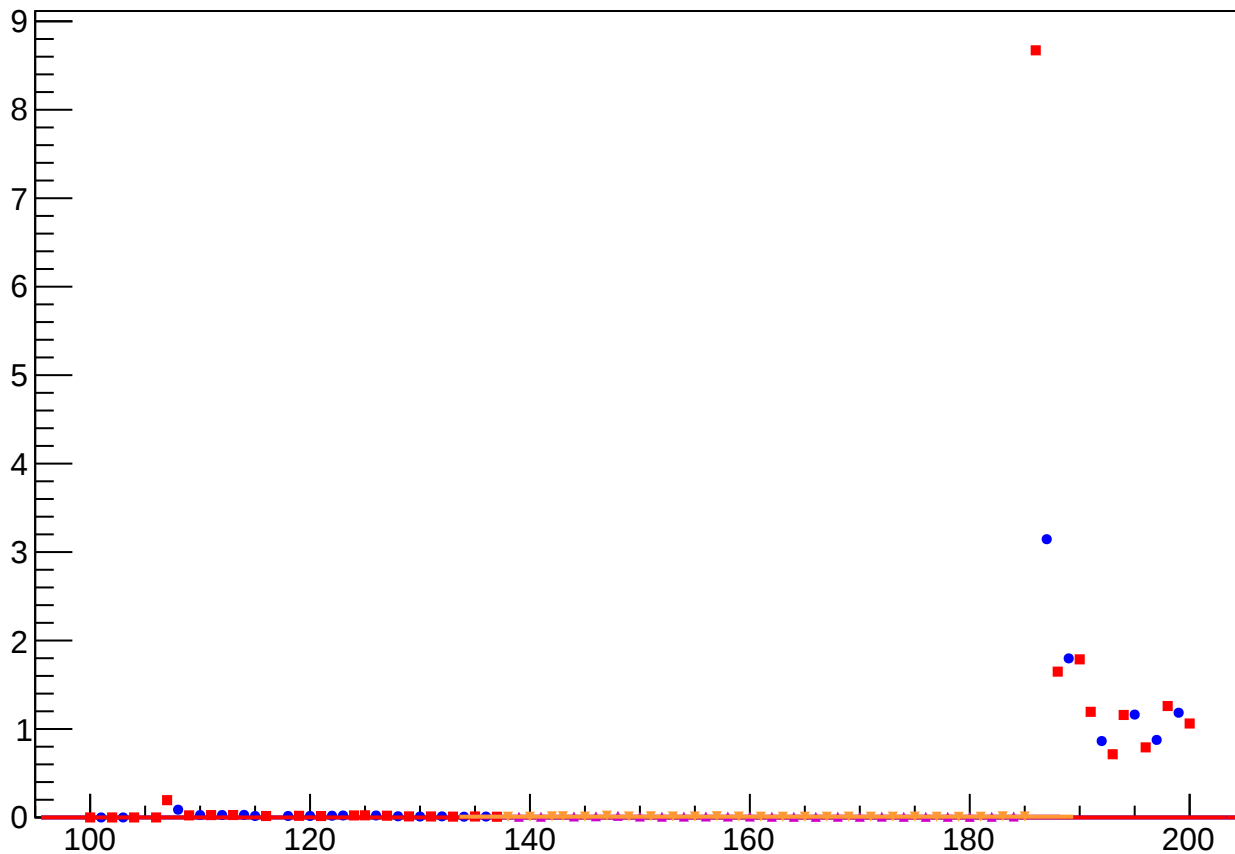
All: 0.000+/-0.000 χ^2/NDF : 95464719.9/98

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 494089380428.3/22	Left: -0.827+/-0.000	χ^2/NDF : 344237775.5/47
Left Out: -0.827+/-0.000	χ^2/NDF : 170052639.9/24	Right: 3.040+/-0.000	χ^2/NDF : 1382287676272794.1
Right Out: 2.583+/-0.000	χ^2/NDF : 1253522413605559.8/27	In: 3.560+/-0.000	χ^2/NDF : 4174650395895.1/45
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255753314442330.2
		All: 3.038+/-0.000	χ^2/NDF : 13880122372982.1

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15951041.4/22

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 19659270.1/27

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

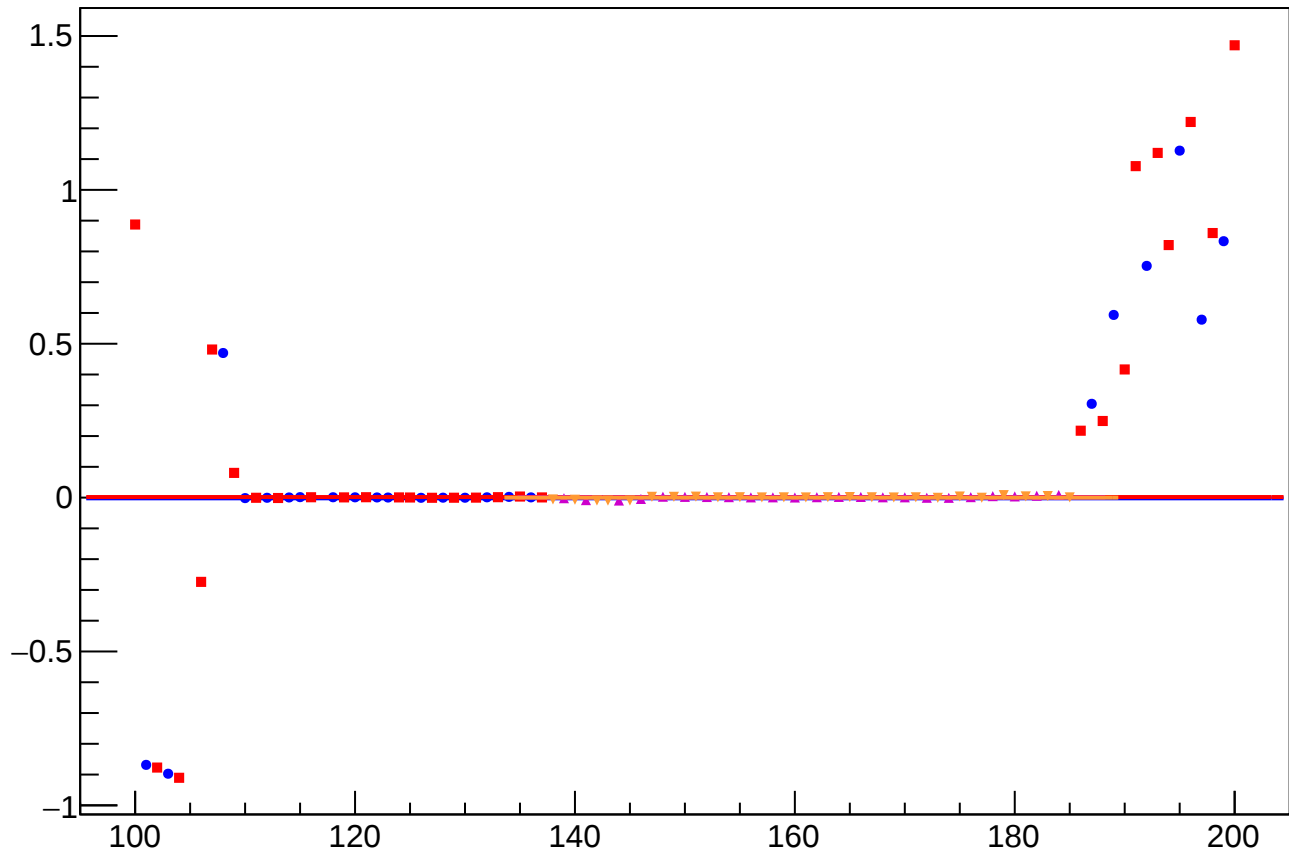
Right: 0.000+/-0.000 χ^2/NDF : 35610583.8/50

In: 0.000+/-0.000 χ^2/NDF :45748207.4/45

Out: 0.000+/-0.000 χ^2/NDF :51177412.0/52

All: 0.000+/-0.000 χ^2/NDF : 96926395.2/98

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9795703551.7/22

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3043015859.7/27

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

Left: 0.000+/-0.000

χ^2/NDF : 254489625.0/47

Right: -0.000+/-0.000

χ^2/NDF : 12852867943.2/50

In: -0.000+/-0.000

χ^2/NDF : 9908615290.5/45

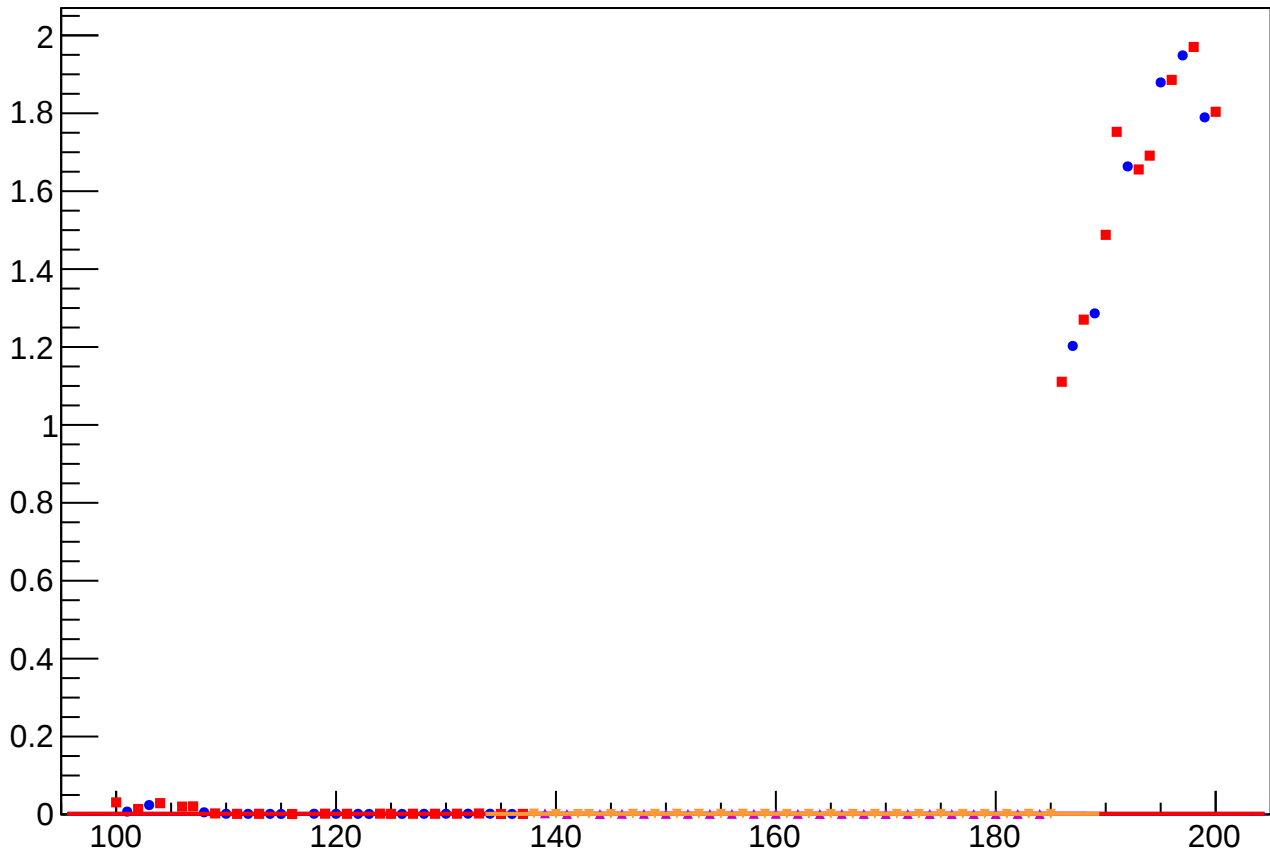
Out: 0.000+/-0.000

χ^2/NDF : 3199251497.9/52

All: 0.000+/-0.000

χ^2/NDF : 13108238391.9/95

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 9591461.3/22

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 14437222.0/27

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

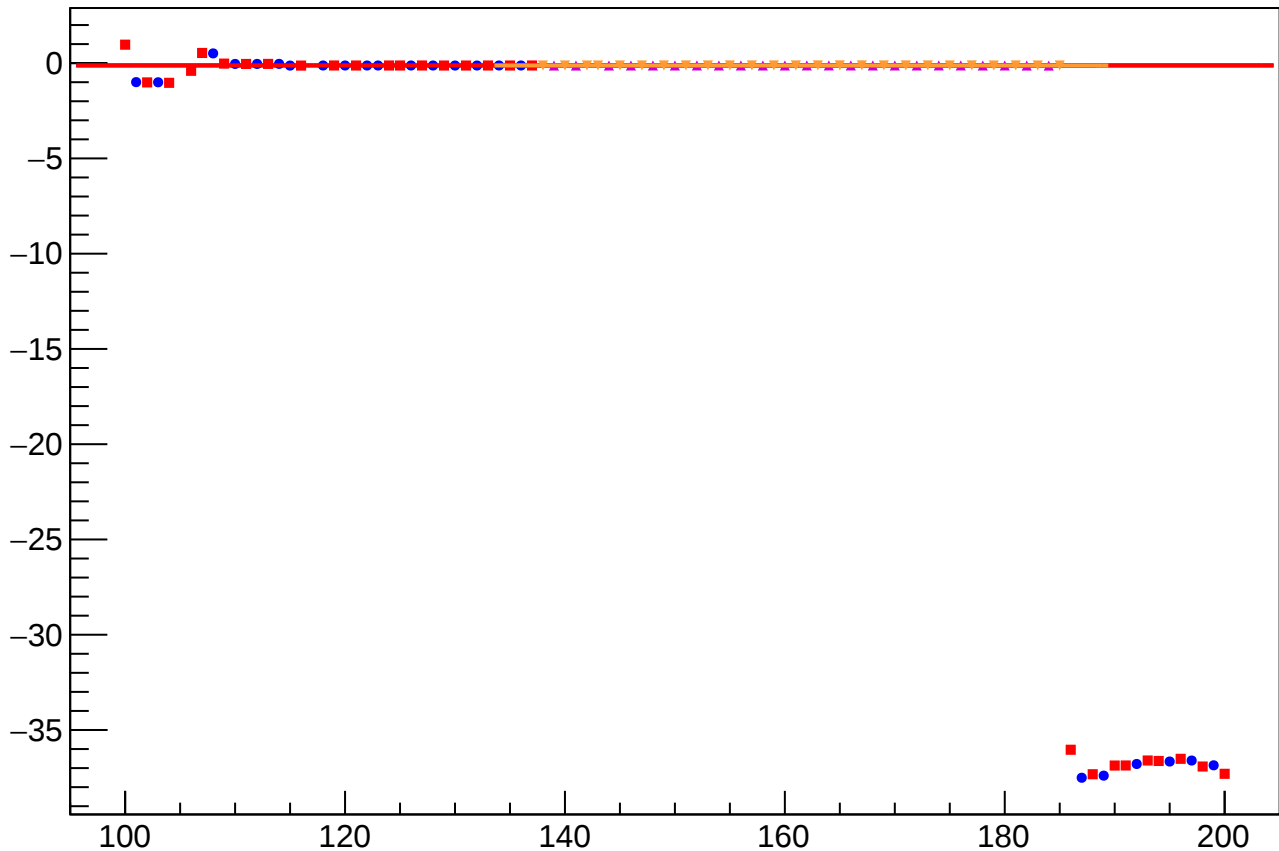
Right: 0.002+/-0.000 χ^2/NDF : 24036730.6/50

In: 0.002+/-0.000 χ^2/NDF :10302987.4/45

Out: 0.002+/-0.000 χ^2/NDF :15111865.3/52

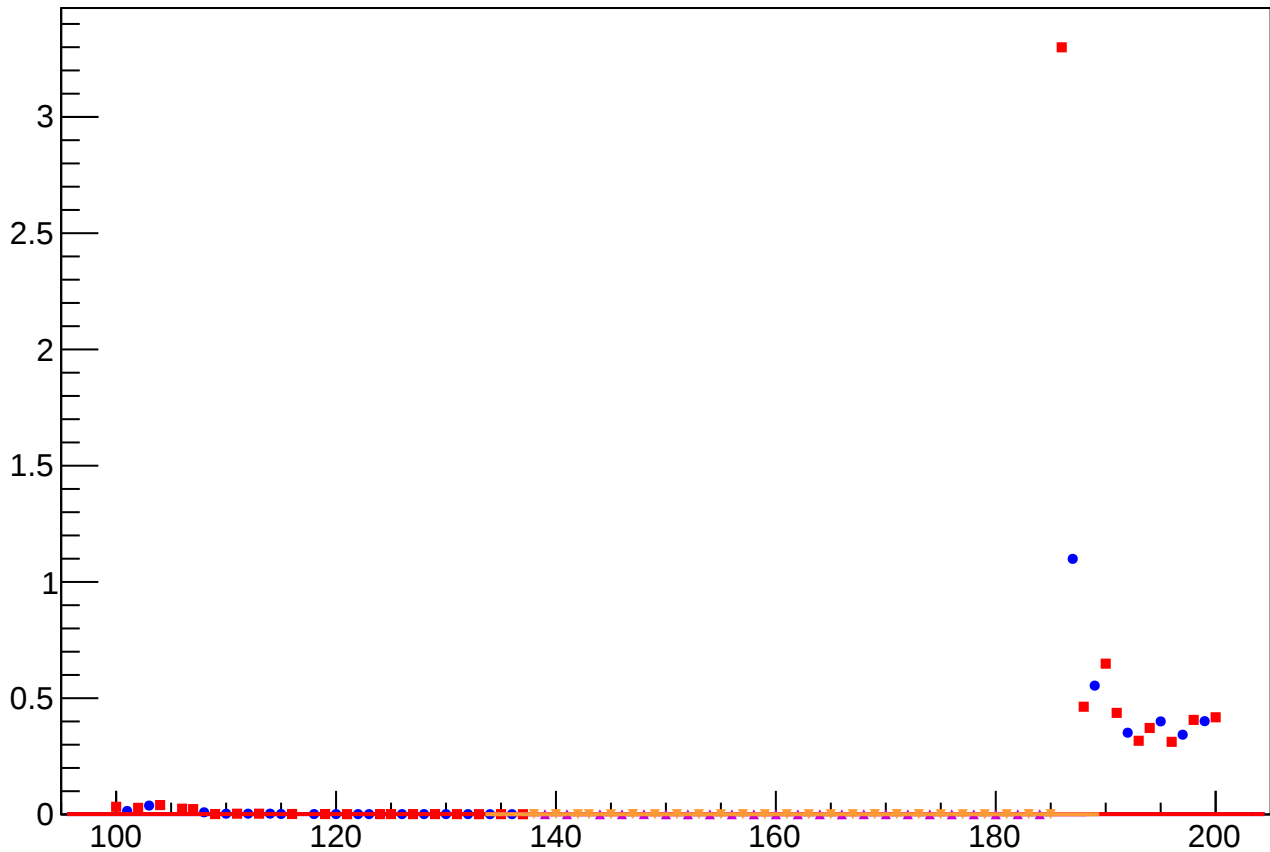
All: 0.002+/-0.000 χ^2/NDF : 25415469.9/98

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121 ± 0.000 χ^2/NDF : 36080113005.6/22 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 : 85760122329.7/50
Right Out: -0.116 ± 0.000 χ^2/NDF : 49659143423.7/27 In: -0.121 ± 0.000 χ^2/NDF : 36133278402.5/45
Left In: -0.121 ± 0.000 χ^2/NDF : 53134323.3/22 Out: -0.121 ± 0.000 χ^2/NDF : 49760370794.5/52
All: -0.121 ± 0.000 χ^2/NDF : 85894498784.1/100

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 10150353.7/22

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 14485812.0/27

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

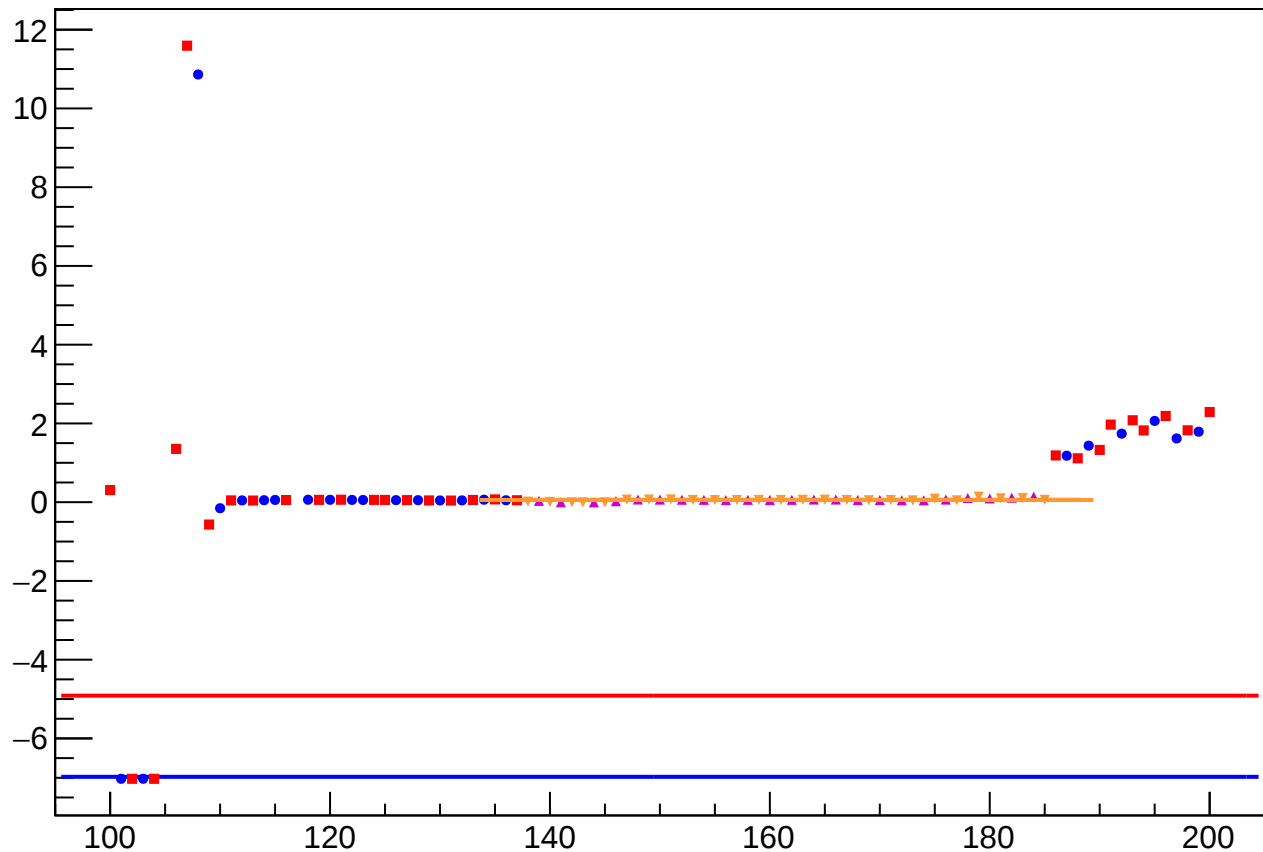
Right: 0.002+/-0.000 χ^2/NDF : 24636184.4/50

In: 0.001+/-0.000 χ^2/NDF :12259581.2/45

Out: 0.001+/-0.000 χ^2/NDF :17017717.4/52

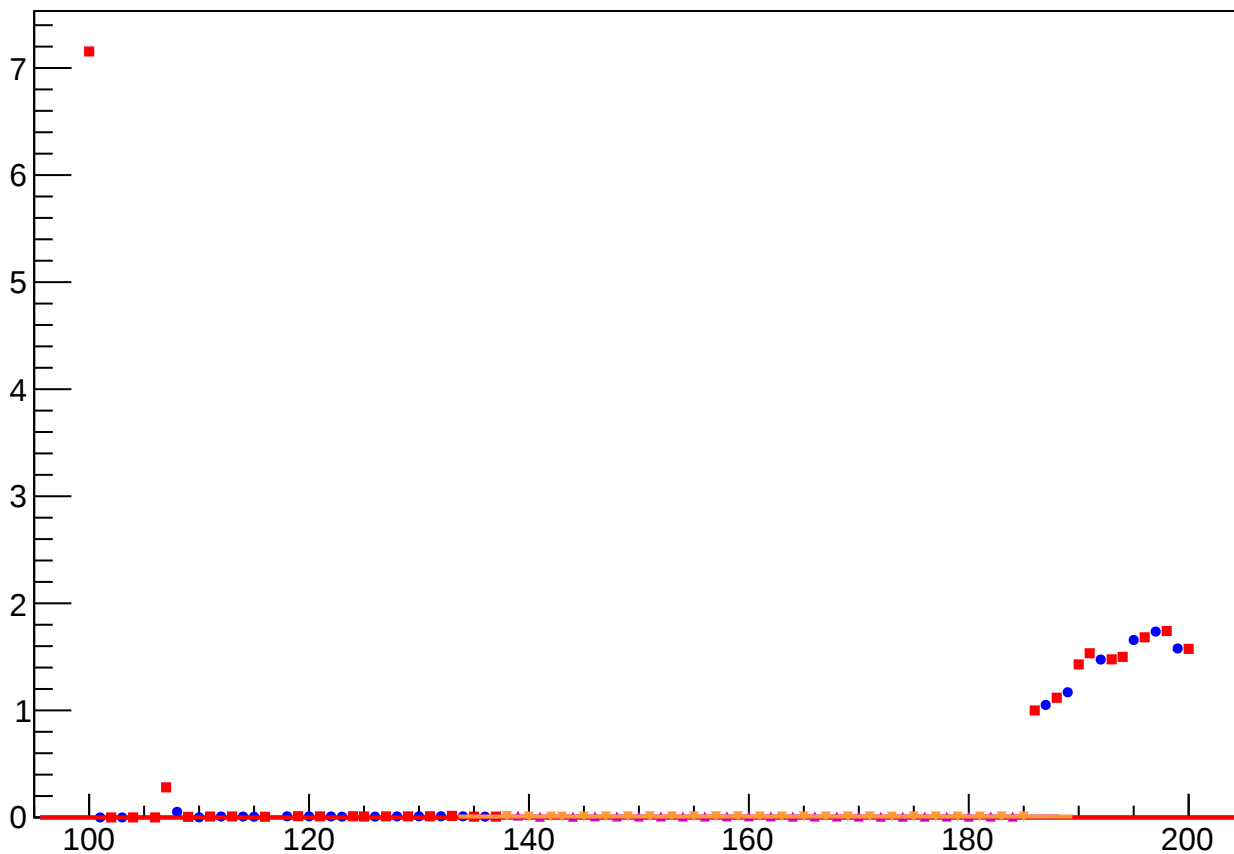
All: 0.001+/-0.000 χ^2/NDF : 29279365.9/98

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762578278365.0/22$ 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 $\chi^2/\text{NDF}: 430303454821743.8$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348658605721.0/27$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605105736513.9/45$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175345473192.9/27$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435814194854$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15912667.0/22

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 20192737.8/27

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

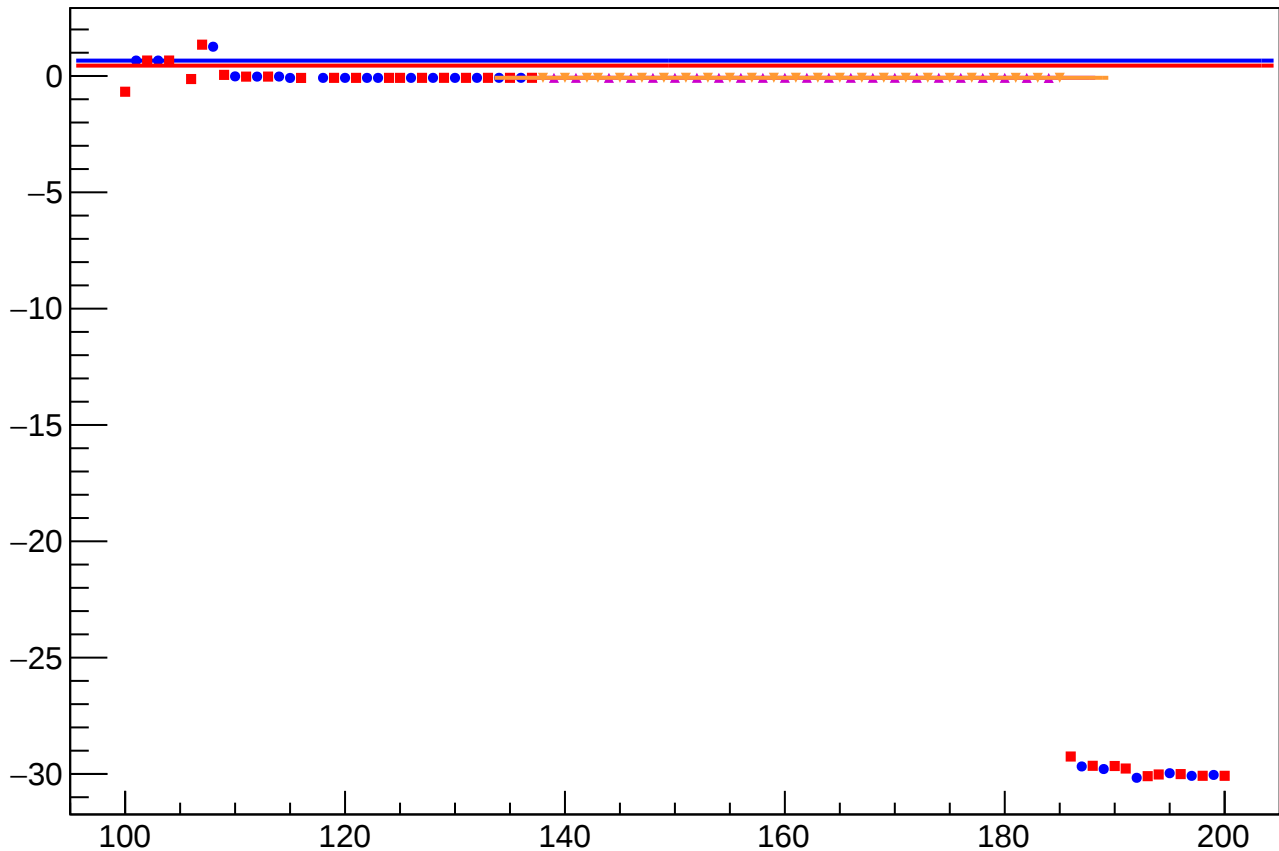
Right: 0.000+/-0.000 χ^2/NDF : 36105705.1/50

In: 0.000+/-0.000 χ^2/NDF : 43549676.6/45

Out: 0.000+/-0.000 χ^2/NDF : 49220888.1/52

All: 0.000+/-0.000 χ^2/NDF : 92771046.9/98

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661 +/- 0.000 χ^2/NDF : 5618028727560.1/22

Left Out: -0.078 +/- 0.000 χ^2/NDF : 156525648.0/24

Right Out: 0.446 +/- 0.000 χ^2/NDF : 405461320866089.2/27

Left In: -0.077 +/- 0.000 χ^2/NDF : 111221084.5/22

Left: -0.078 +/- 0.000 χ^2/NDF : 267788024.6/47

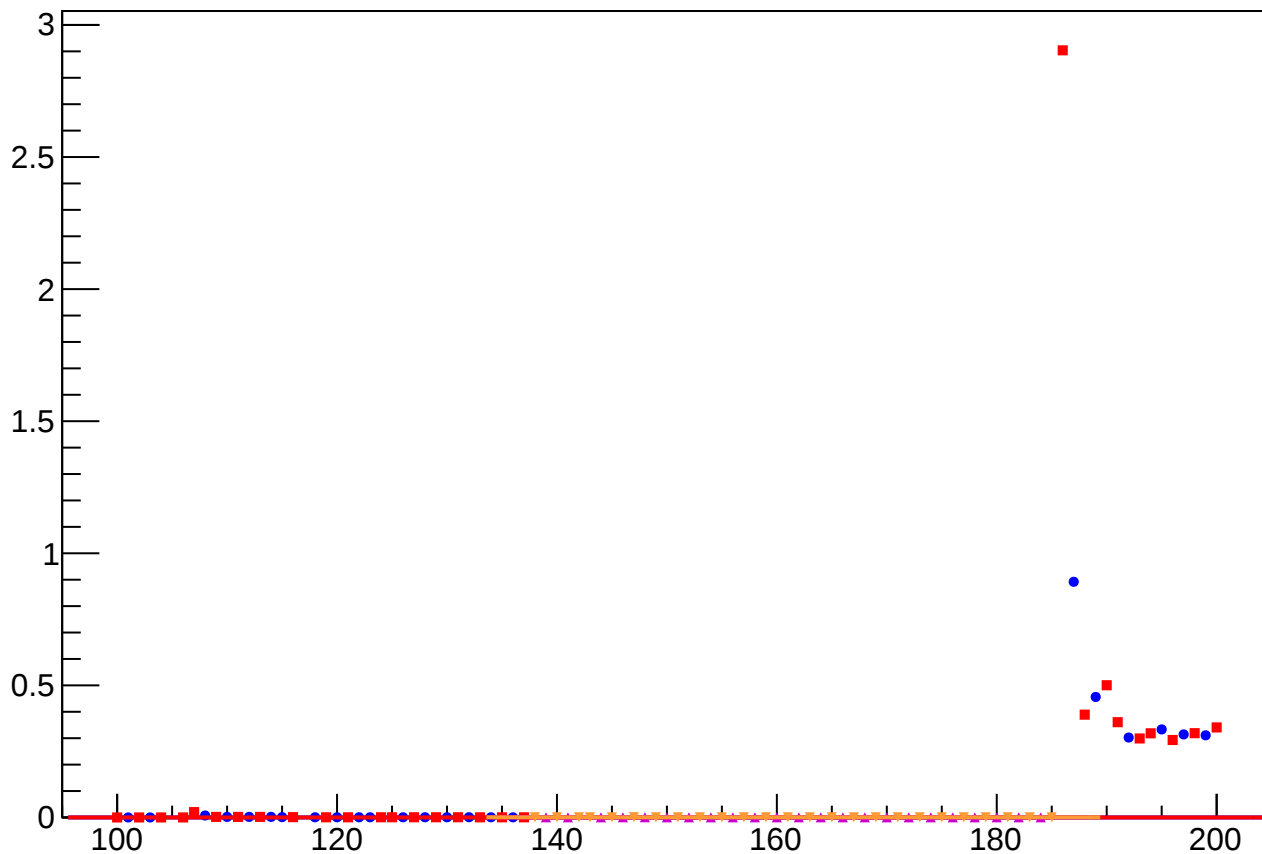
Right: 0.549 +/- 0.000 χ^2/NDF : 474008622179456.5/100

In: 0.647 +/- 0.000 χ^2/NDF : 33877988843271.5/45

Out: 0.436 +/- 0.000 χ^2/NDF : 420655898180139.5/50

All: 0.537 +/- 0.000 χ^2/NDF : 51605861883103.0/100

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17388265.5/22

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 20722085.1/27

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

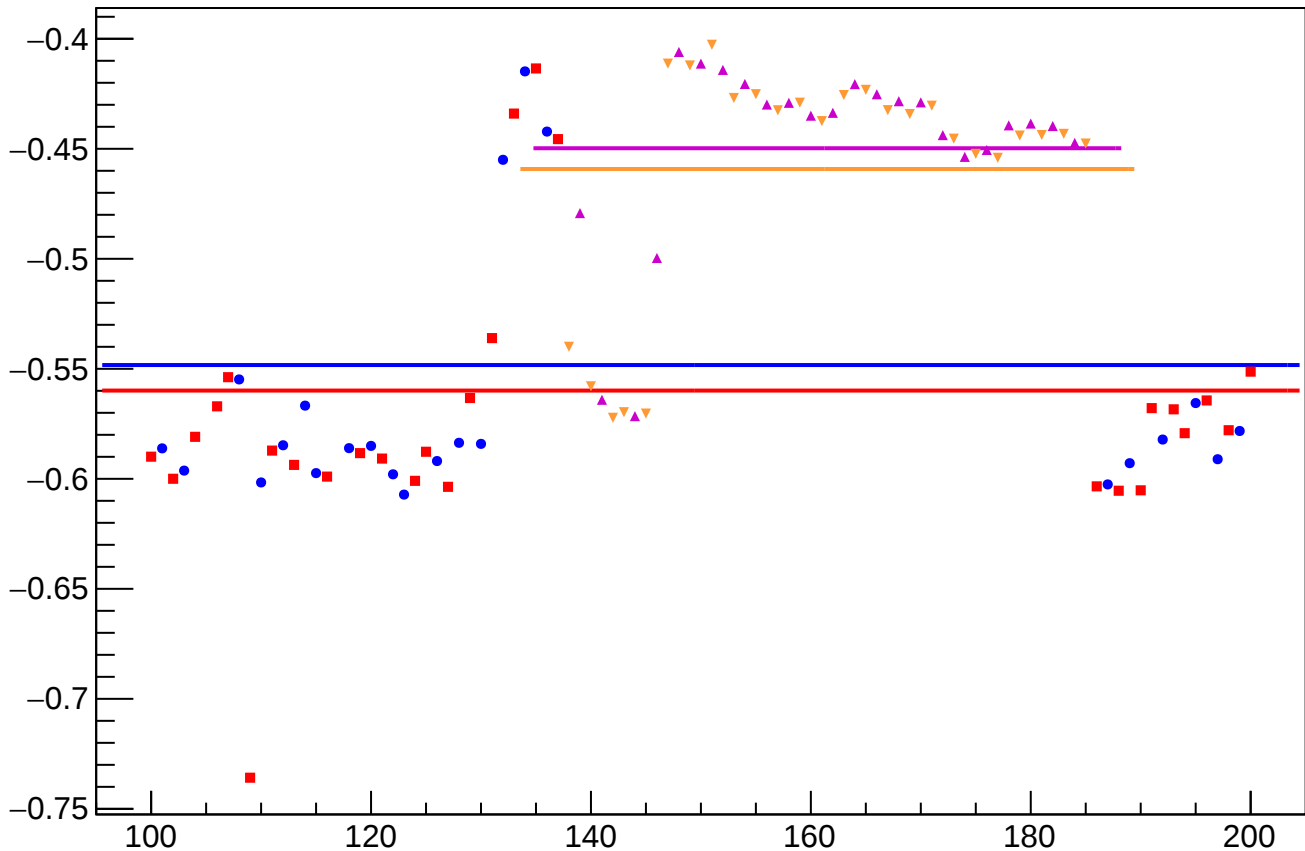
Right: 0.000+/-0.000 χ^2/NDF : 38110356.7/50

In: 0.000+/-0.000 χ^2/NDF : 48366820.2/45

Out: 0.000+/-0.000 χ^2/NDF : 53436017.2/52

All: 0.000+/-0.000 χ^2/NDF : 101803234.1/98

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548 $\pm$ 0.000 χ^2 /NDF: 47586224.4/22

Left Out: -0.459 $\pm$ 0.000 χ^2 /NDF:113808762.6/24

Right Out: -0.560 $\pm$ 0.000 χ^2 /NDF: 65297179.9/27

Left In: -0.450 $\pm$ 0.000 χ^2 /NDF:76151485.7/22

Left: -0.455 $\pm$ 0.000 χ^2 /NDF: 191688333.2/47

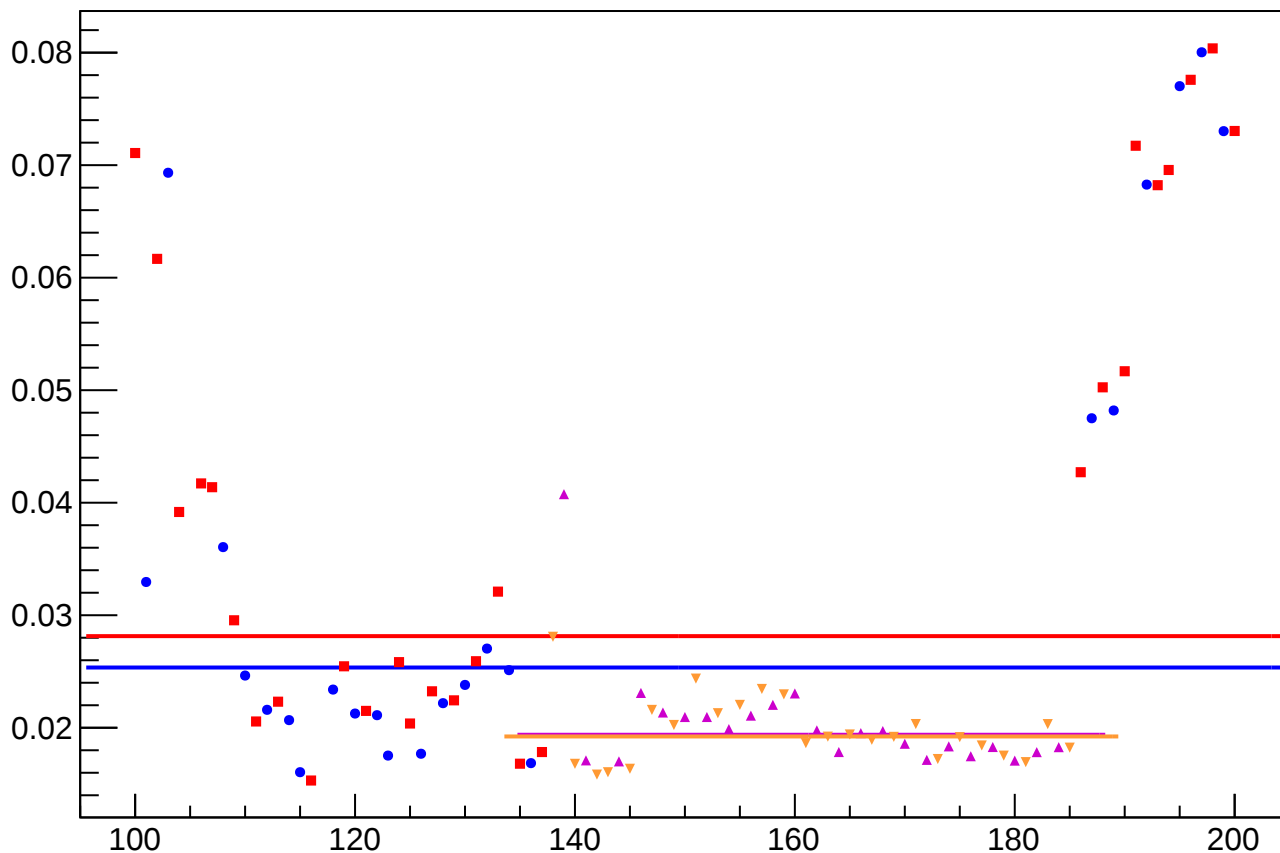
Right: -0.554 $\pm$ 0.000 χ^2 /NDF: 113639347.2/50

In: -0.472 $\pm$ 0.000 χ^2 /NDF:207538045.5/45

Out: -0.481 $\pm$ 0.000 χ^2 /NDF:268295264.0/52

All: -0.477 $\pm$ 0.000 χ^2 /NDF: 477732508.6/98

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 4281274.3/22

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.028+/-0.000 χ^2/NDF : 5357618.7/27

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

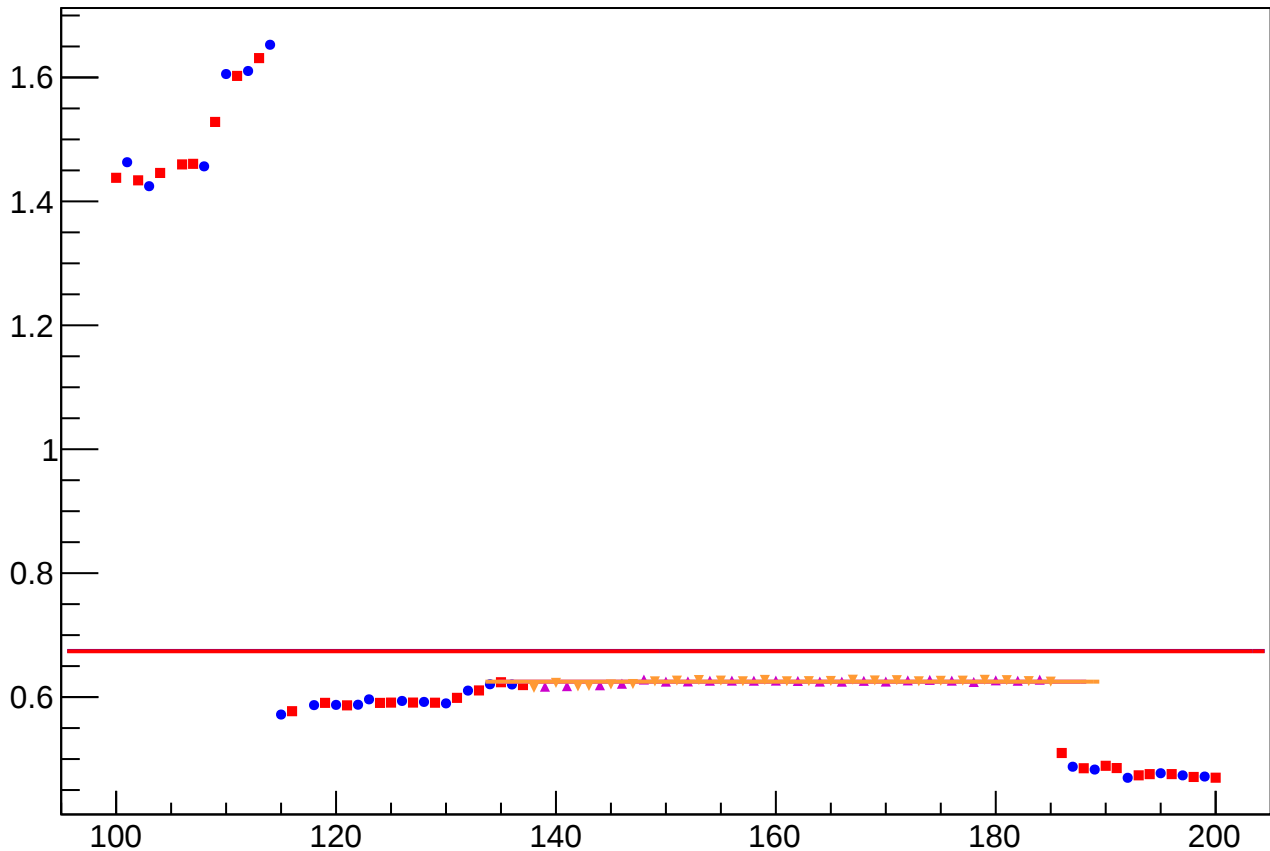
Right: 0.027+/-0.000 χ^2/NDF : 9726287.2/50

In: 0.021+/-0.000 χ^2/NDF : 5554023.4/45

Out: 0.021+/-0.000 χ^2/NDF : 7257636.4/52

All: 0.021+/-0.000 χ^2/NDF : 12820418.0/98

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.674+/-0.000 χ^2/NDF : 4605362305.8/22

Left Out: 0.625+/-0.000 χ^2/NDF :1442225.6/24

Right Out: 0.674+/-0.000 χ^2/NDF : 5753559449.5/27

Left In: 0.625+/-0.000 χ^2/NDF :1135039.4/22

Left: 0.625+/-0.000 χ^2/NDF : 2577573.3/47

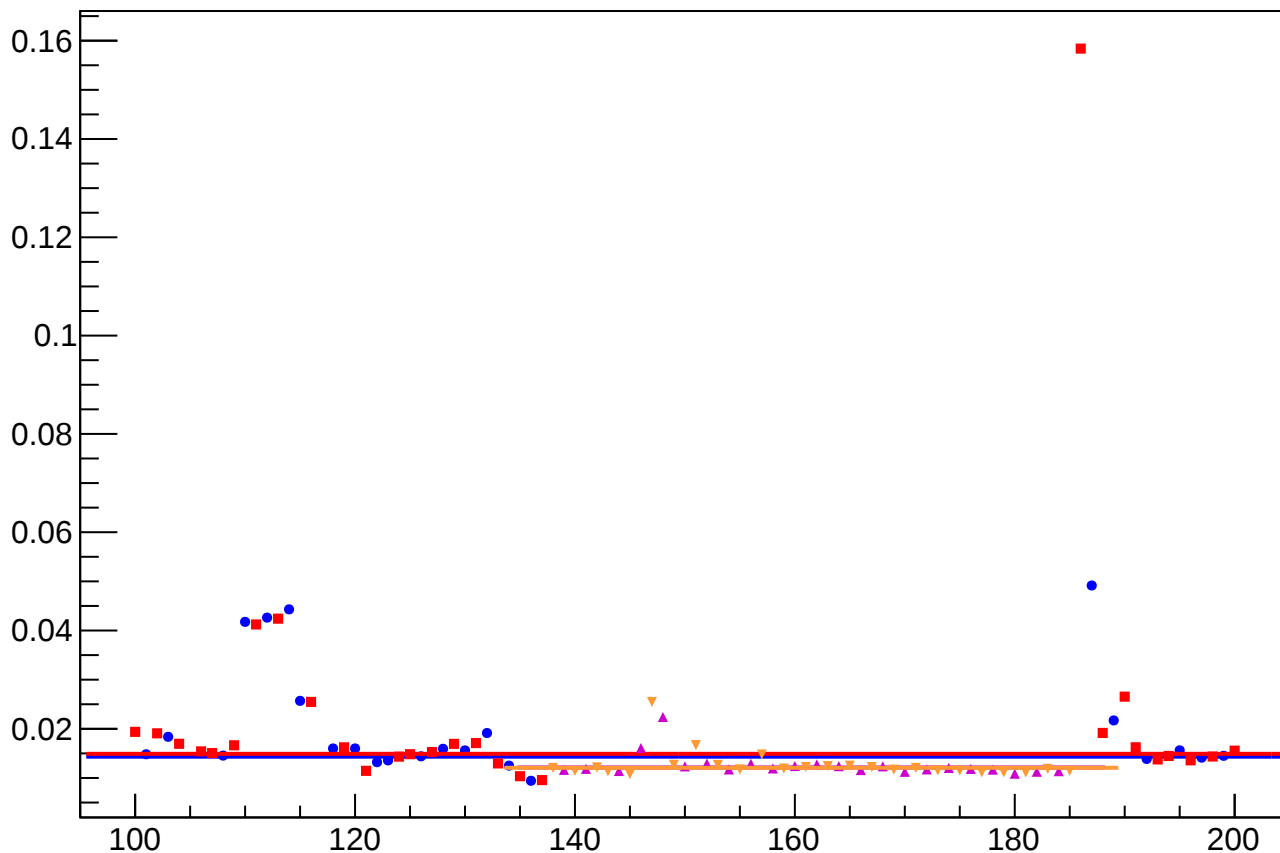
Right: 0.674+/-0.000 χ^2/NDF : 10358927153.8/50

In: 0.639+/-0.000 χ^2/NDF :4685794992.4/45

Out: 0.639+/-0.000 χ^2/NDF :5840624420.4/52

All: 0.639+/-0.000 χ^2/NDF : 10526437111.1/9

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1639772.1/22

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2072027.0/27

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488249.4/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146144.5/47

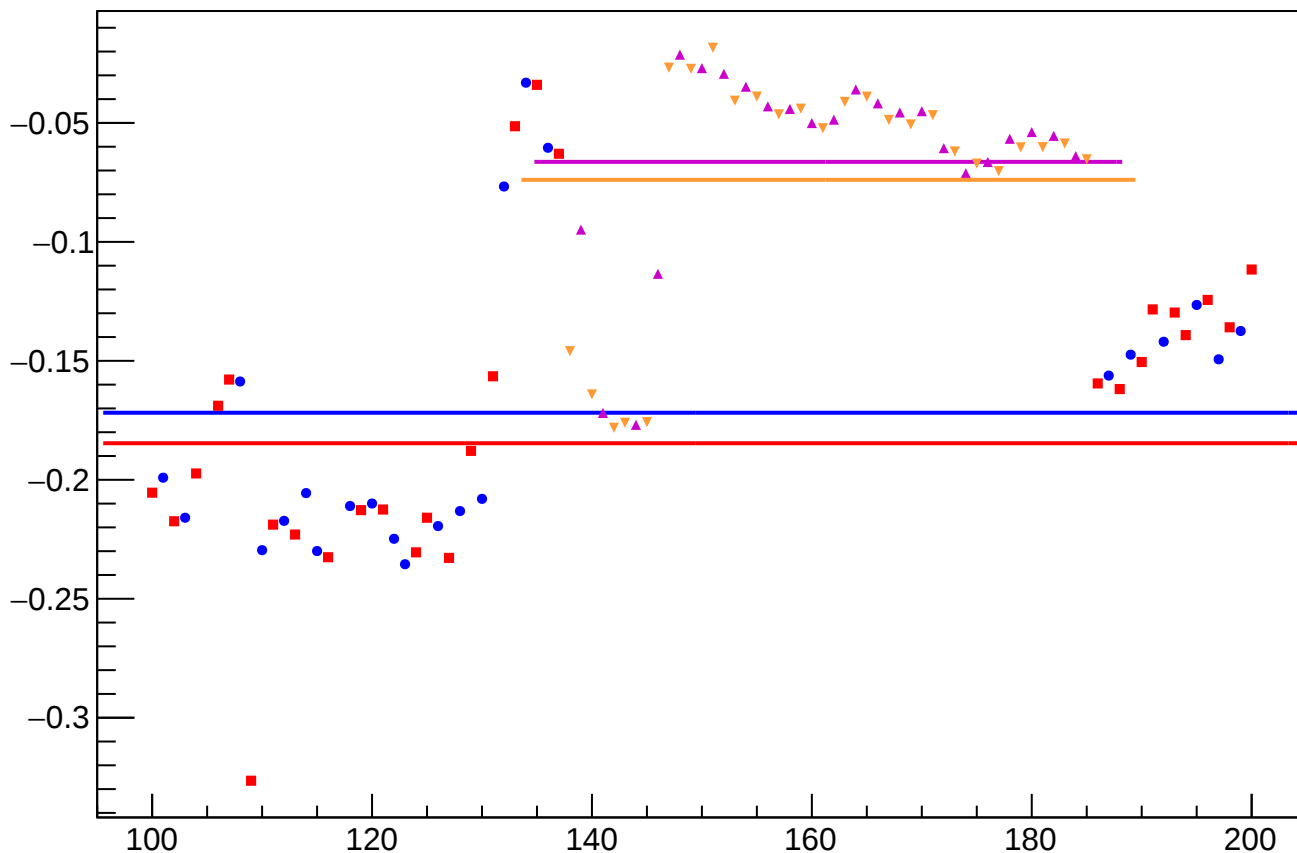
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3727349.9/50

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2440701.9/45

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3302471.7/52

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5746792.5/98

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.172+/-0.000 χ^2/NDF : 67737193.5/22

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.185+/-0.000 χ^2/NDF : 84831379.9/27

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

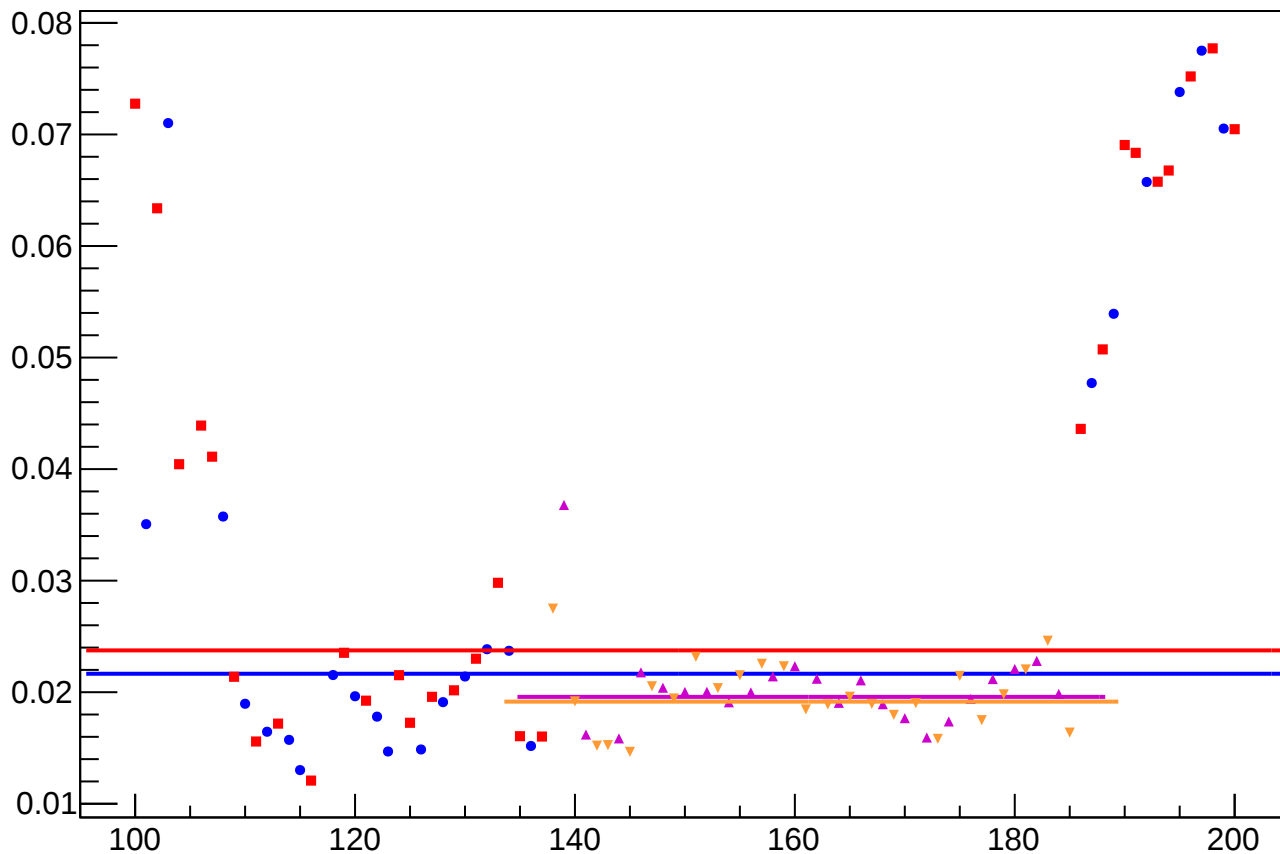
Right: -0.178+/-0.000 χ^2/NDF : 153780303.6/50

In: -0.096+/-0.000 χ^2/NDF : 261304444.9/45

Out: -0.103+/-0.000 χ^2/NDF : 326305943.8/52

All: -0.100+/-0.000 χ^2/NDF : 588986945.6/98

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 4999021.4/22

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.024+/-0.000 χ^2/NDF : 6520775.0/27

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

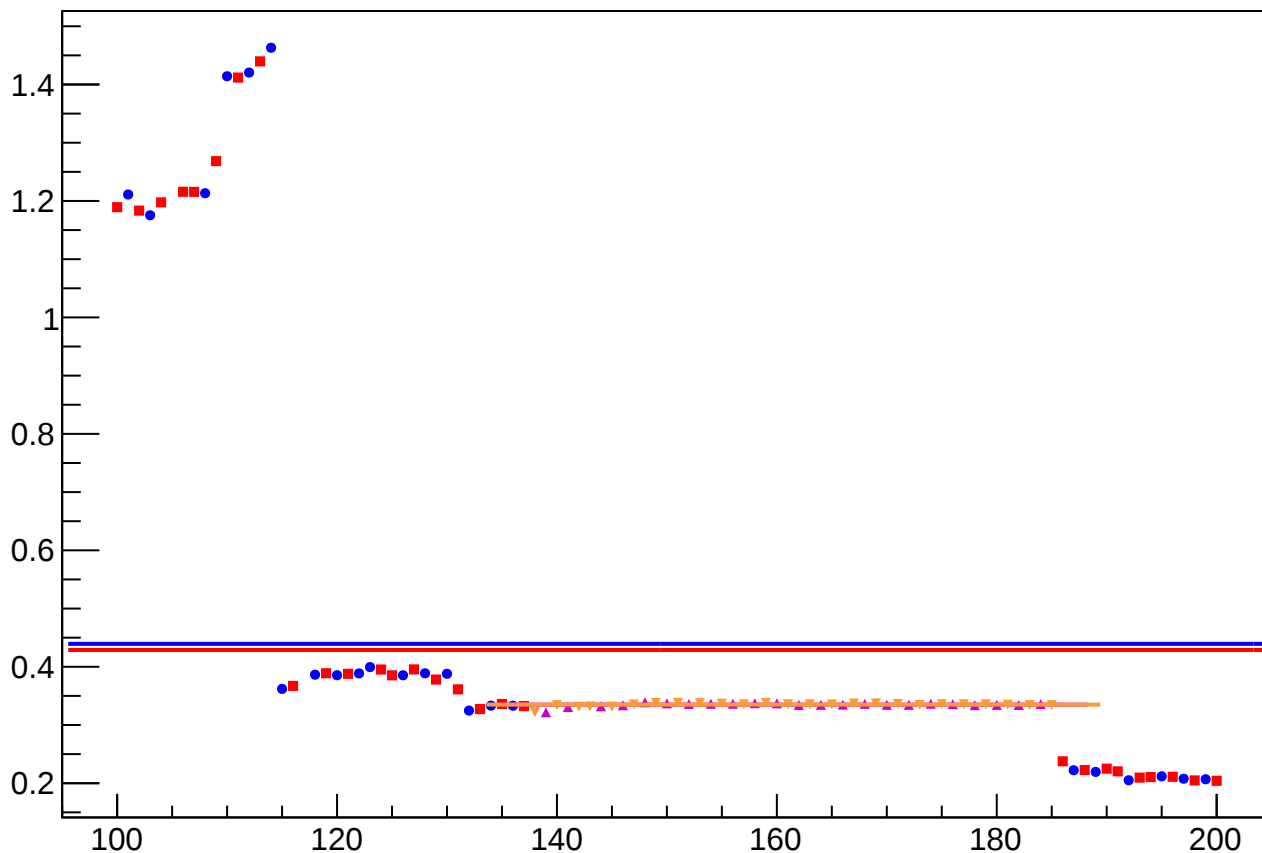
Right: 0.023+/-0.000 χ^2/NDF : 11584482.0/50

In: 0.020+/-0.000 χ^2/NDF : 5741040.1/45

Out: 0.020+/-0.000 χ^2/NDF : 7621709.3/52

All: 0.020+/-0.000 χ^2/NDF : 13365028.0/98

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.439+/-0.000 χ^2/NDF : 6745304397.0/22

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.429+/-0.000 χ^2/NDF : 8096430391.6/27

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

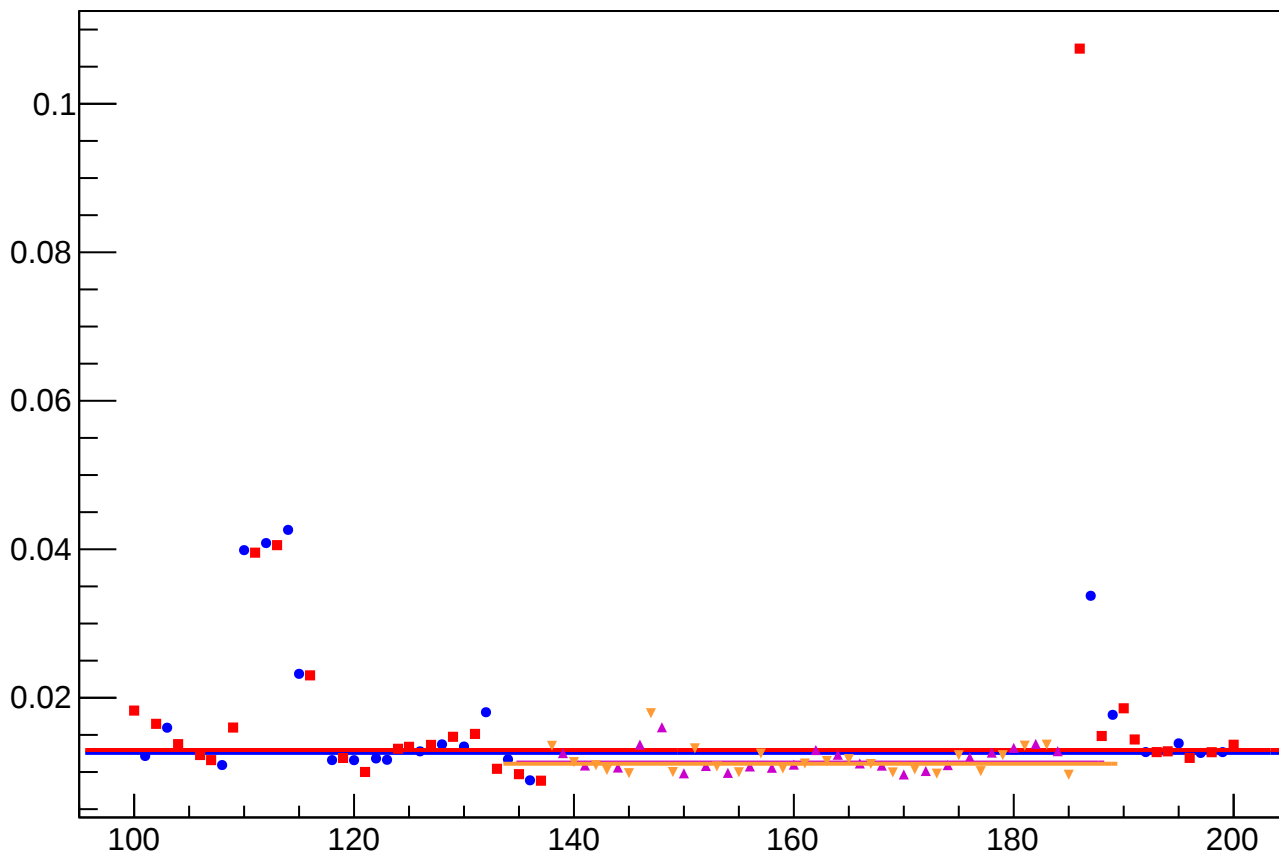
Right: 0.434+/-0.000 χ^2/NDF : 14845159874.3/50

In: 0.367+/-0.000 χ^2/NDF :7187263305.3/45

Out: 0.365+/-0.000 χ^2/NDF :8495837057.1/52

All: 0.366+/-0.000 χ^2/NDF : 15683594512.6/99

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1508891.1/22

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1933320.8/27

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

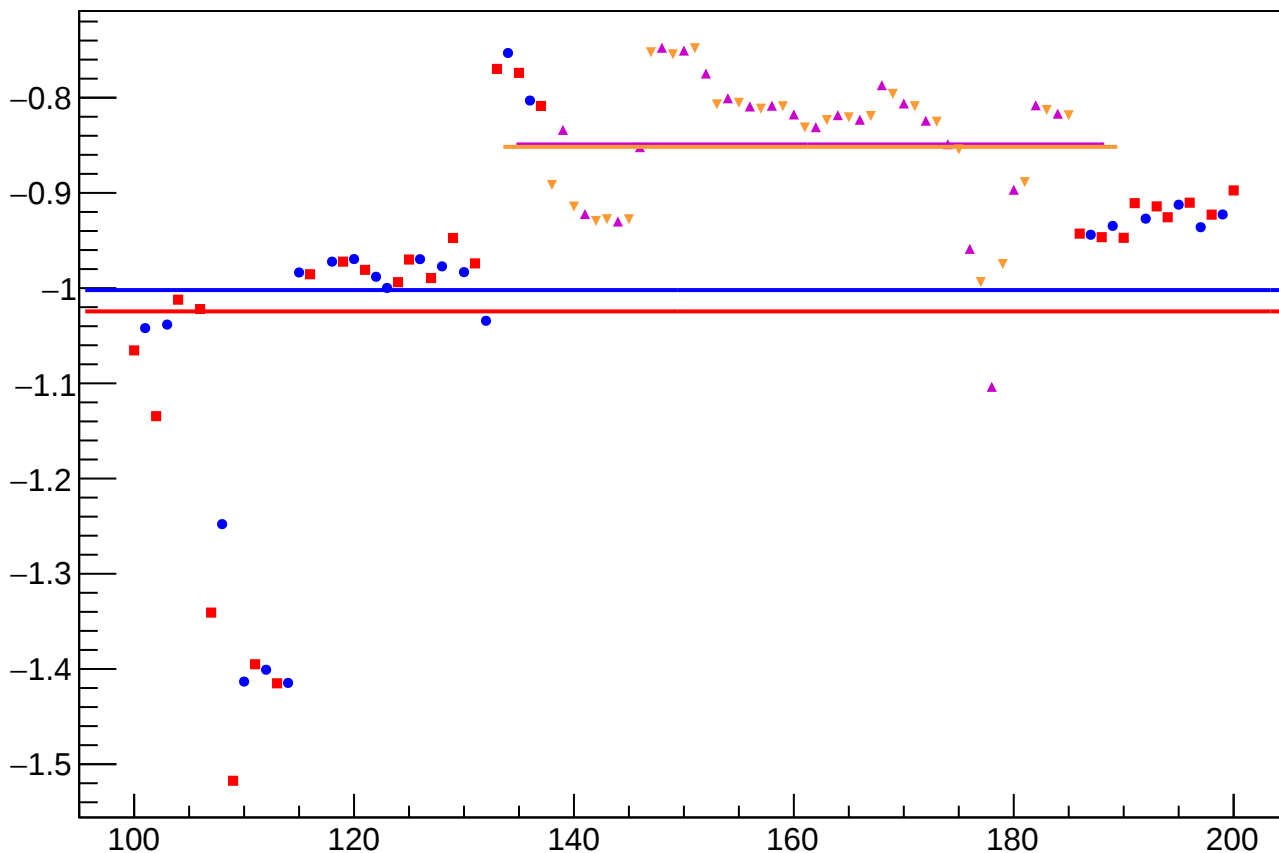
Right: 0.013+/-0.000 χ^2/NDF : 3451495.3/50

In: 0.012+/-0.000 χ^2/NDF : 2148823.3/45

Out: 0.012+/-0.000 χ^2/NDF : 2850943.2/52

All: 0.012+/-0.000 χ^2/NDF : 4999932.4/98

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.002 $\pm$ 0.000 χ^2 /NDF: 398429052.8/22

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189276591.7/24

Right Out: -1.024 $\pm$ 0.000 χ^2 /NDF: 550920508.7/27

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256438306.8/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445849768.4/47

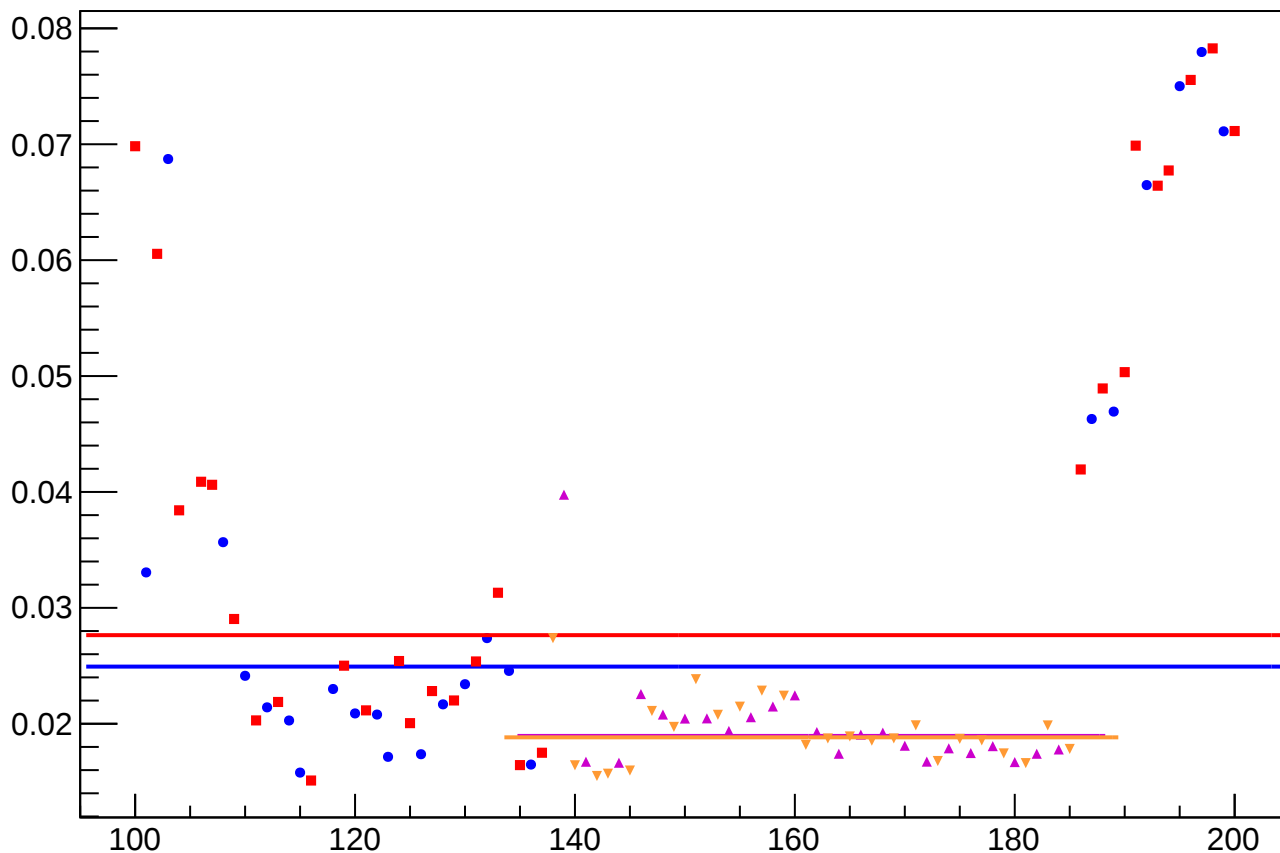
Right: -1.013 $\pm$ 0.000 χ^2 /NDF: 952263801.0/50

In: -0.884 $\pm$ 0.000 χ^2 /NDF:864503853.4/45

Out: -0.889 $\pm$ 0.000 χ^2 /NDF:1012922100.4/52

All: -0.887 $\pm$ 0.000 χ^2 /NDF: 1878133809.5/99

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 4274210.1/22

Left Out: 0.019+/-0.000 χ^2/NDF : 490084.5/24

Right Out: 0.028+/-0.000 χ^2/NDF : 5311240.3/27

Left In: 0.019+/-0.000 χ^2/NDF : 645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

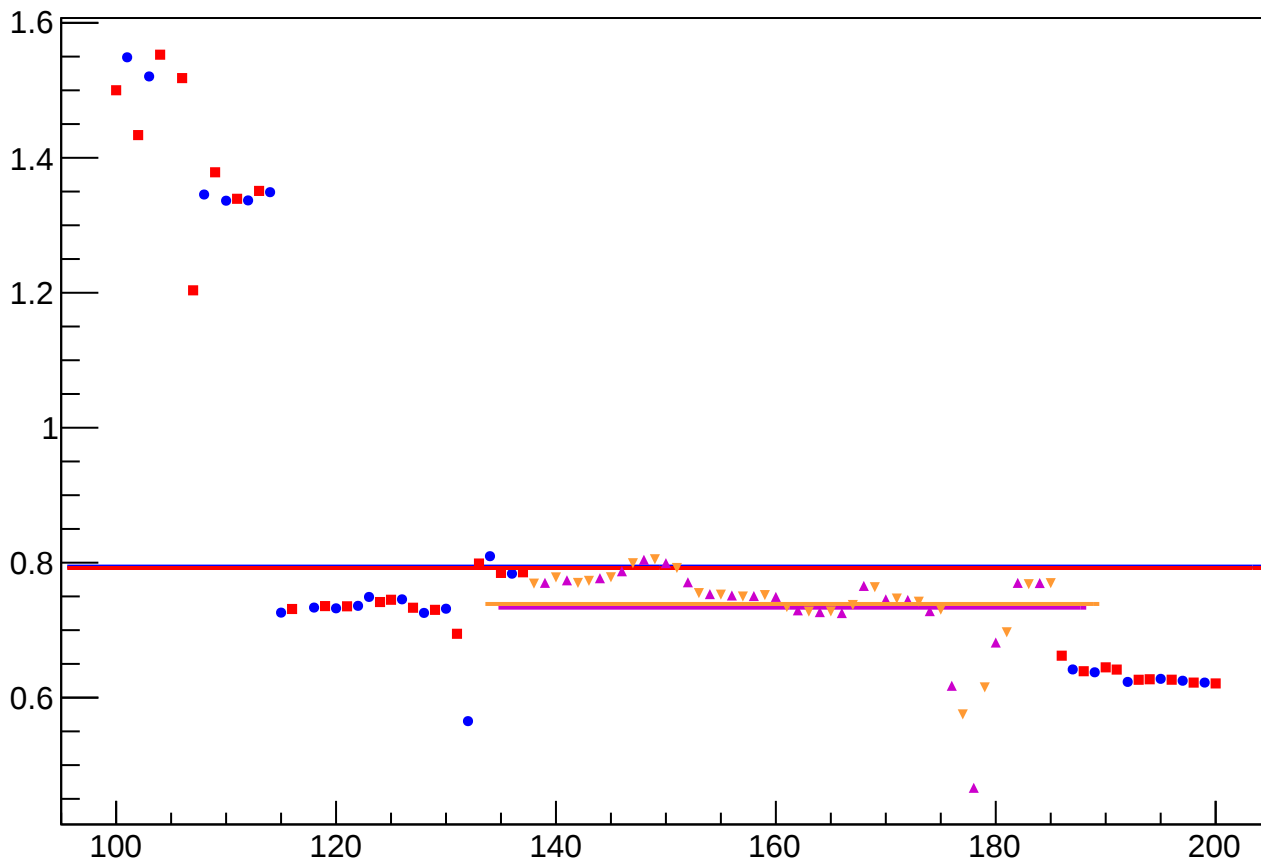
Right: 0.026+/-0.000 χ^2/NDF : 9671150.8/50

In: 0.020+/-0.000 χ^2/NDF : 5560155.7/45

Out: 0.021+/-0.000 χ^2/NDF : 7221455.8/52

All: 0.021+/-0.000 χ^2/NDF : 12791238.0/98

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.794 $\pm$ 0.000 χ^2 /NDF: 3146246558.9/22

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.792 $\pm$ 0.000 χ^2 /NDF: 3554401602.6/27

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 905100069.4/47

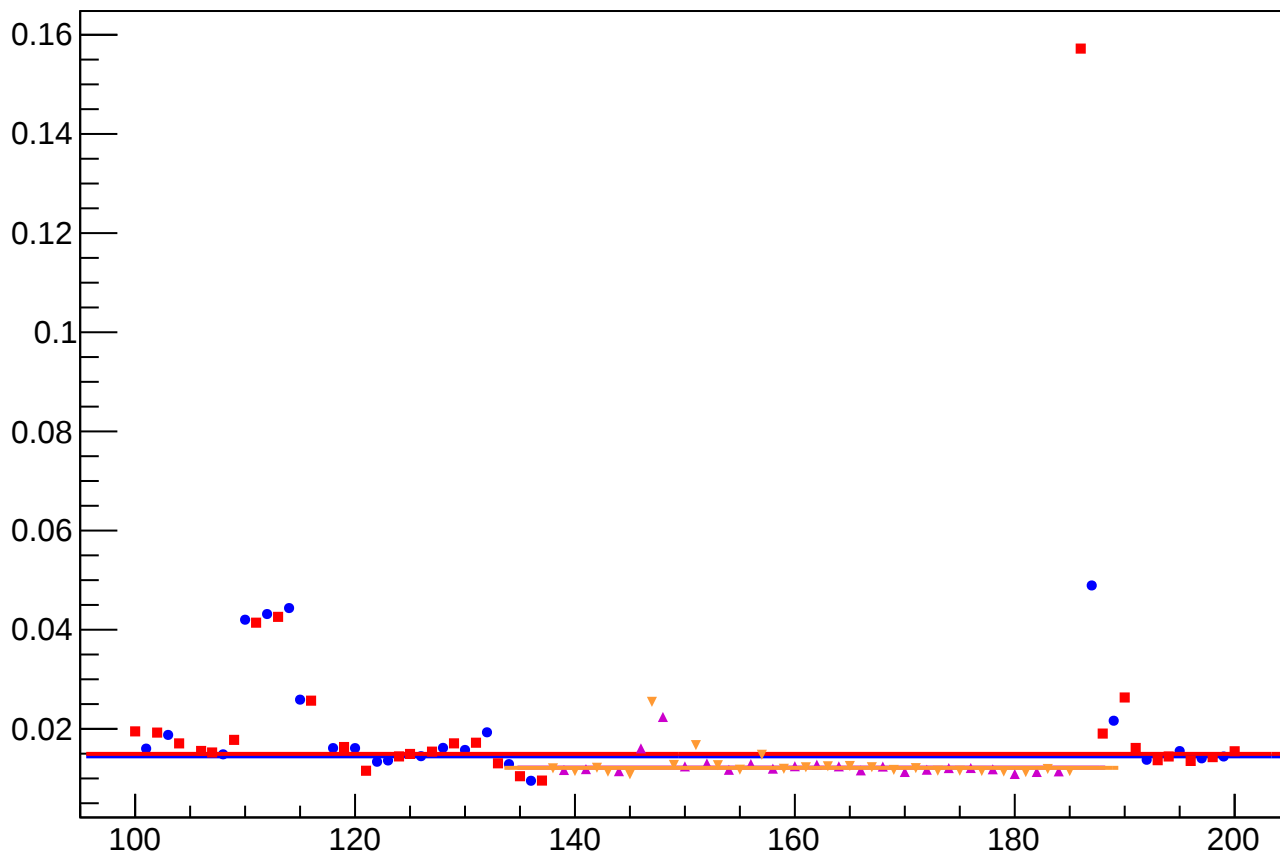
Right: 0.793 $\pm$ 0.000 χ^2 /NDF: 6700748688.2/50

In: 0.750 $\pm$ 0.000 χ^2 /NDF:3833829724.6/45

Out: 0.754 $\pm$ 0.000 χ^2 /NDF:3987574984.4/52

All: 0.753 $\pm$ 0.000 χ^2 /NDF: 7822794383.2/98

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1640987.3/22

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2075706.5/27

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

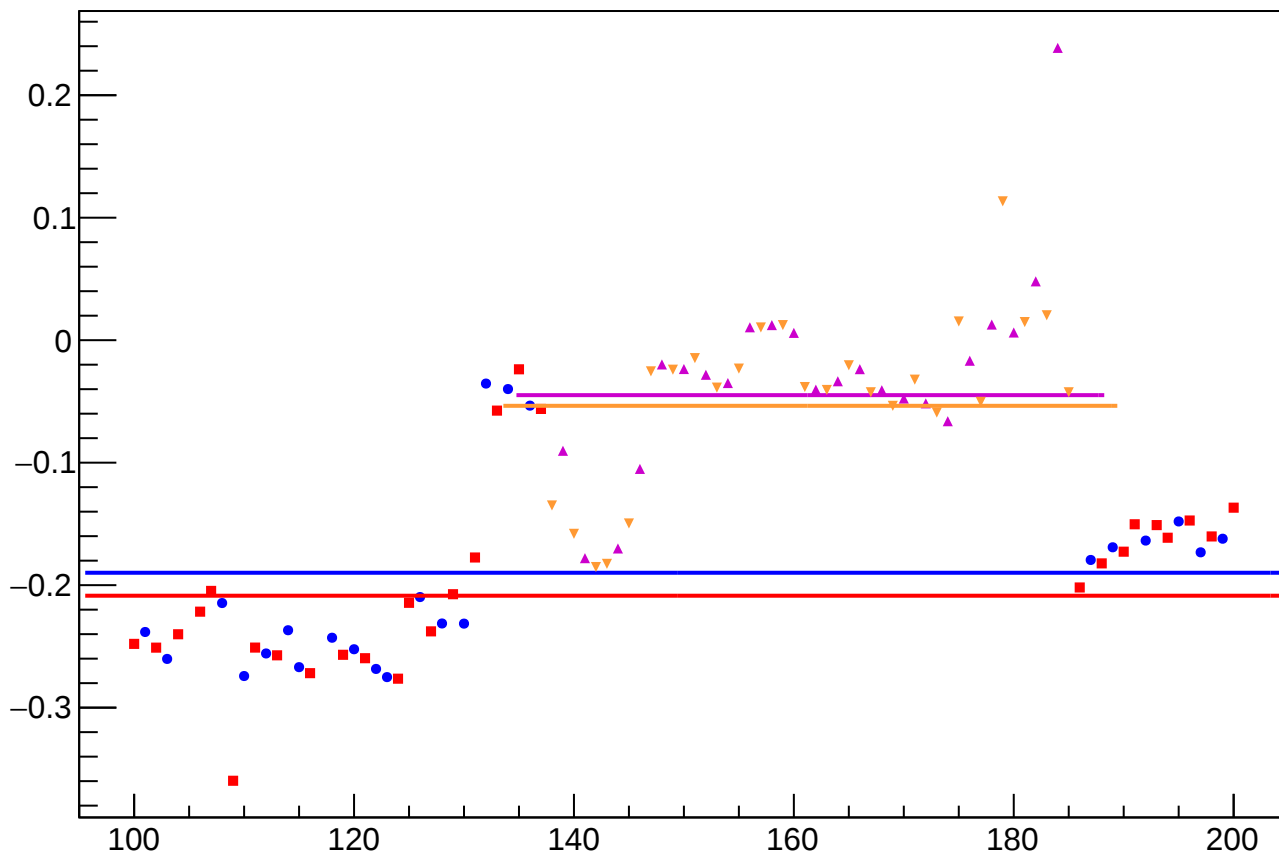
Right: 0.015+/-0.000 χ^2/NDF : 3728277.8/50

In: 0.013+/-0.000 χ^2/NDF : 2448734.6/45

Out: 0.013+/-0.000 χ^2/NDF : 3272494.2/52

All: 0.013+/-0.000 χ^2/NDF : 5724616.0/98

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190+/-0.000 χ^2/NDF : 106612354.4/22

Left Out: -0.054+/-0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.209+/-0.000 χ^2/NDF : 112959990.3/27

Left In: -0.045+/-0.000 χ^2/NDF : 127324000.1/22

Left: -0.049+/-0.000 χ^2/NDF : 296677486.5/47

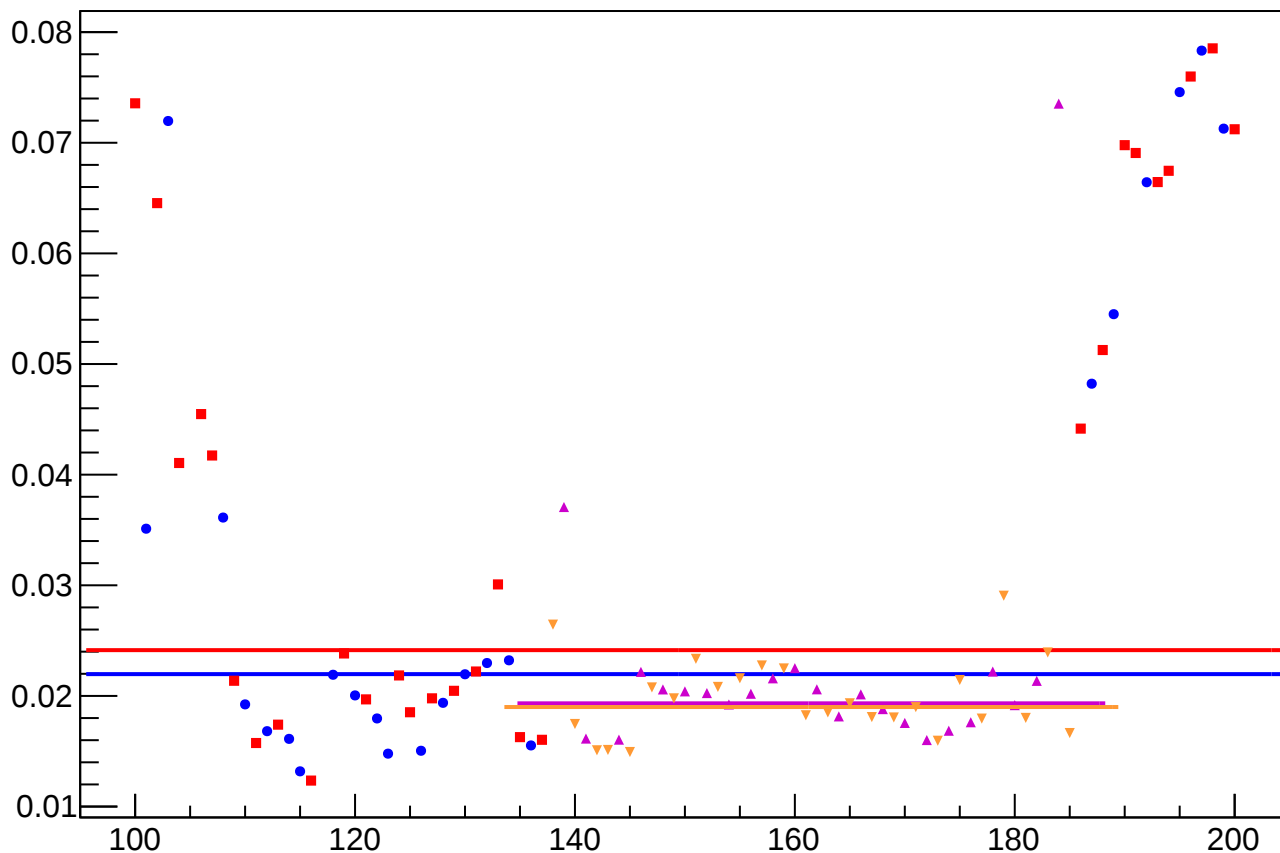
Right: -0.199+/-0.000 χ^2/NDF : 222088222.9/50

In: -0.085+/-0.000 χ^2/NDF : 451222572.1/45

Out: -0.094+/-0.000 χ^2/NDF : 535744837.6/52

All: -0.090+/-0.000 χ^2/NDF : 989153992.9/98

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 4957280.4/22

Left Out: 0.019+/-0.000 χ^2/NDF : 699267.5/24

Right Out: 0.024+/-0.000 χ^2/NDF : 6484078.4/27

Left In: 0.019+/-0.000 χ^2/NDF : 892810.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1596405.3/47

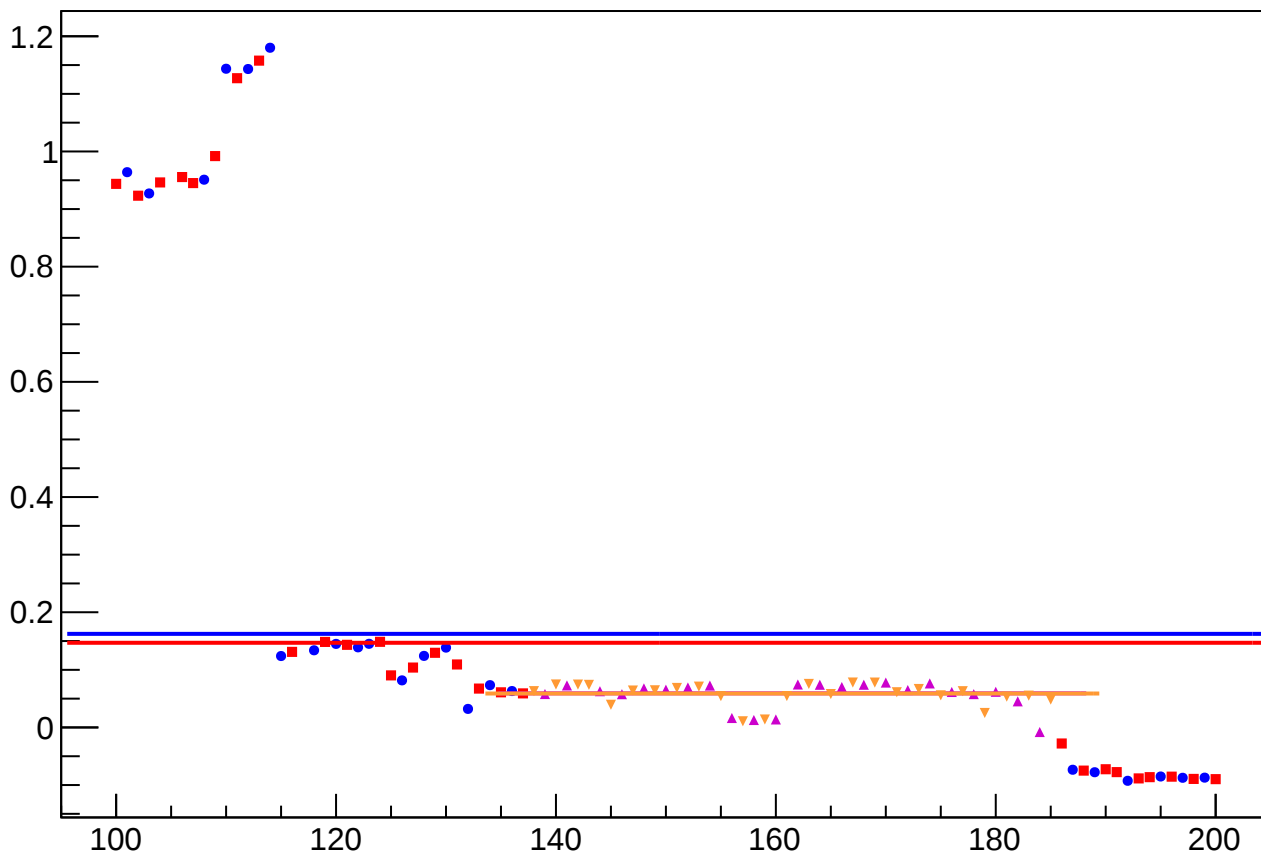
Right: 0.023+/-0.000 χ^2/NDF : 11508635.7/50

In: 0.020+/-0.000 χ^2/NDF : 5994245.2/45

Out: 0.020+/-0.000 χ^2/NDF : 7744072.9/52

All: 0.020+/-0.000 χ^2/NDF : 13742449.1/98

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.162+/-0.000

χ^2/NDF : 7225148107.1/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

Right: 0.154+/-0.000 χ^2/NDF : 15735136254.0/50

Left Out: 0.059+/-0.000

χ^2/NDF : 46902918.4/24

In: 0.090+/-0.000 χ^2/NDF : 7726204181.8/45

Right Out: 0.147+/-0.000 χ^2/NDF : 8502412858.4/27

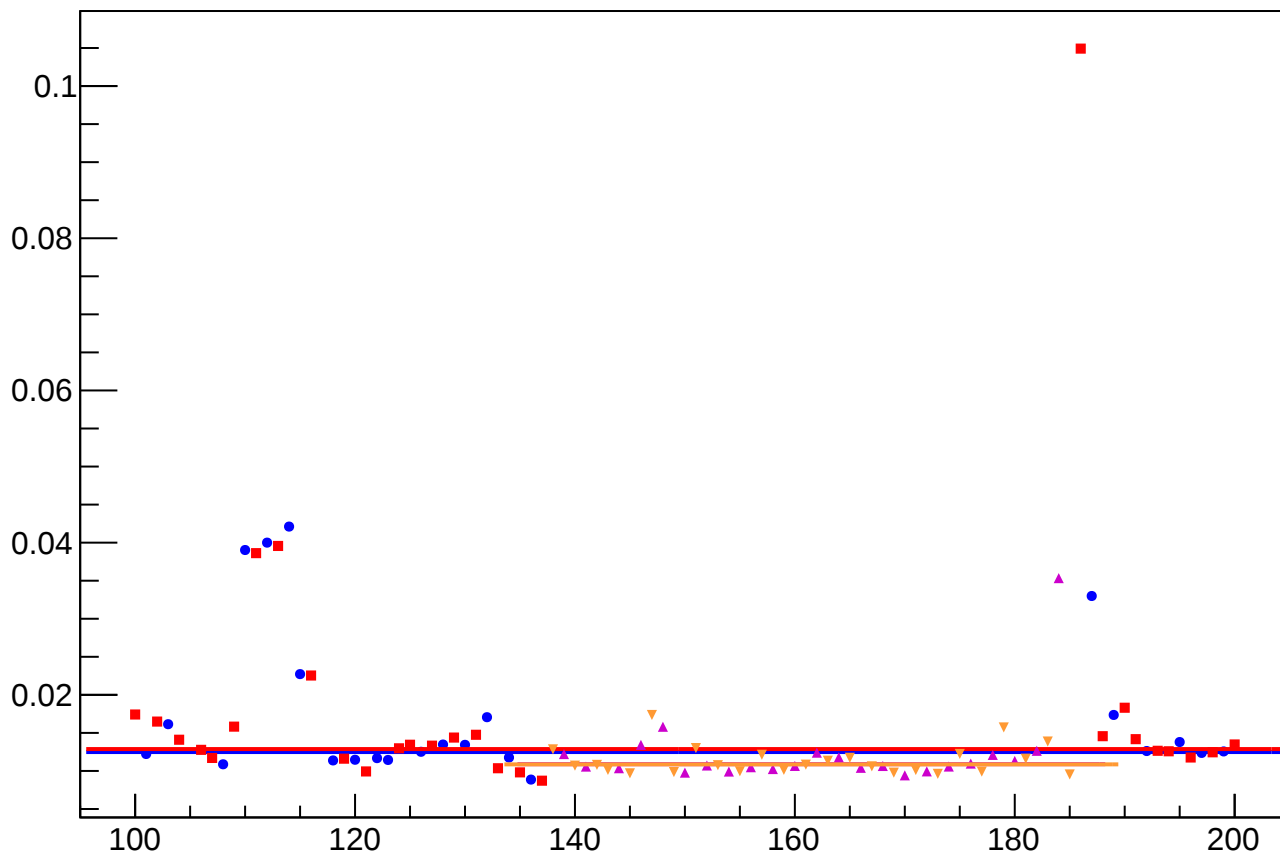
Out: 0.087+/-0.000 χ^2/NDF : 8905915094.8/52

Left In: 0.059+/-0.000

χ^2/NDF : 58640898.5/22

All: 0.089+/-0.000 χ^2/NDF : 16633371412.1/9

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1475984.5/22

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:605519.3/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1891135.1/27

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:529867.3/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1135492.7/47

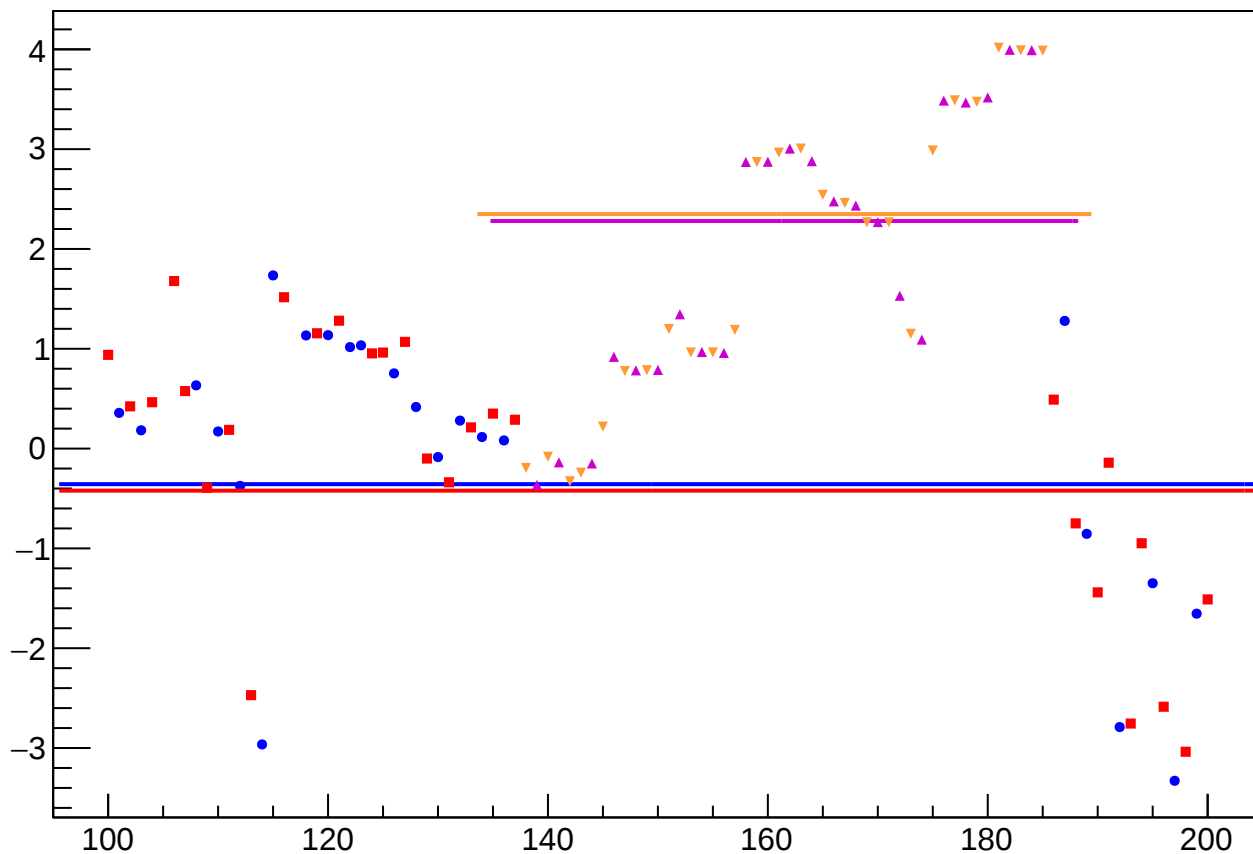
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3376809.1/50

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2215999.8/45

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2868194.6/52

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5087694.8/98

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.357+/-0.000 χ^2/NDF : 4383971815.2/22

Left Out: 2.349+/-0.000 χ^2/NDF : 63600066268.3/24

Right Out: -0.421+/-0.000 χ^2/NDF : 5554030692.3/27

Left In: 2.280+/-0.000 χ^2/NDF : 61444254541.3/22

Left: 2.314+/-0.000 χ^2/NDF : 125168787170.9/47

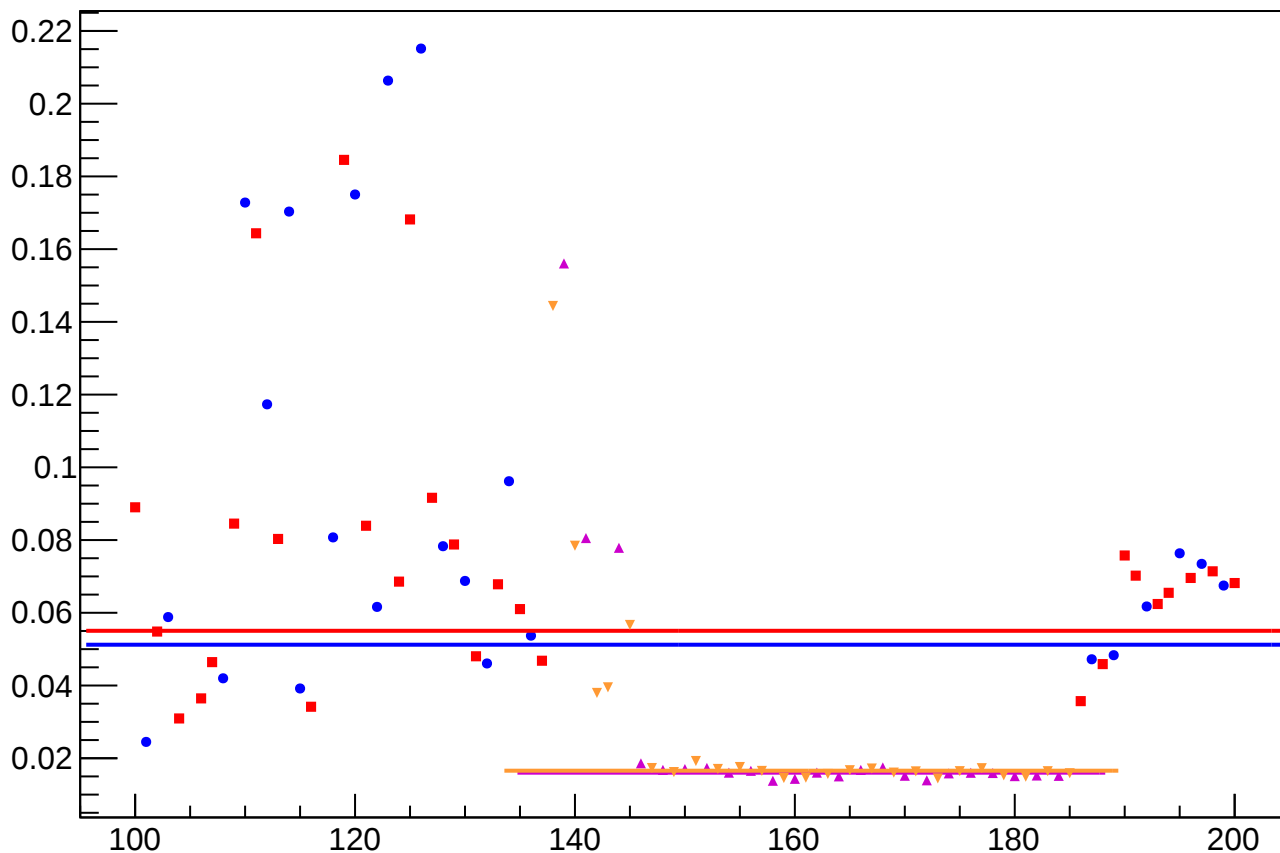
Right: -0.391+/-0.000 χ^2/NDF : 9944016599.3/50

In: 2.153+/-0.000 χ^2/NDF : 83359500767.0/45

Out: 2.192+/-0.000 χ^2/NDF : 91518492666.7/52

All: 2.172+/-0.000 χ^2/NDF : 174919188543.7

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.051+/-0.000 χ^2/NDF : 3369371.1/22

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2794764.2/27

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

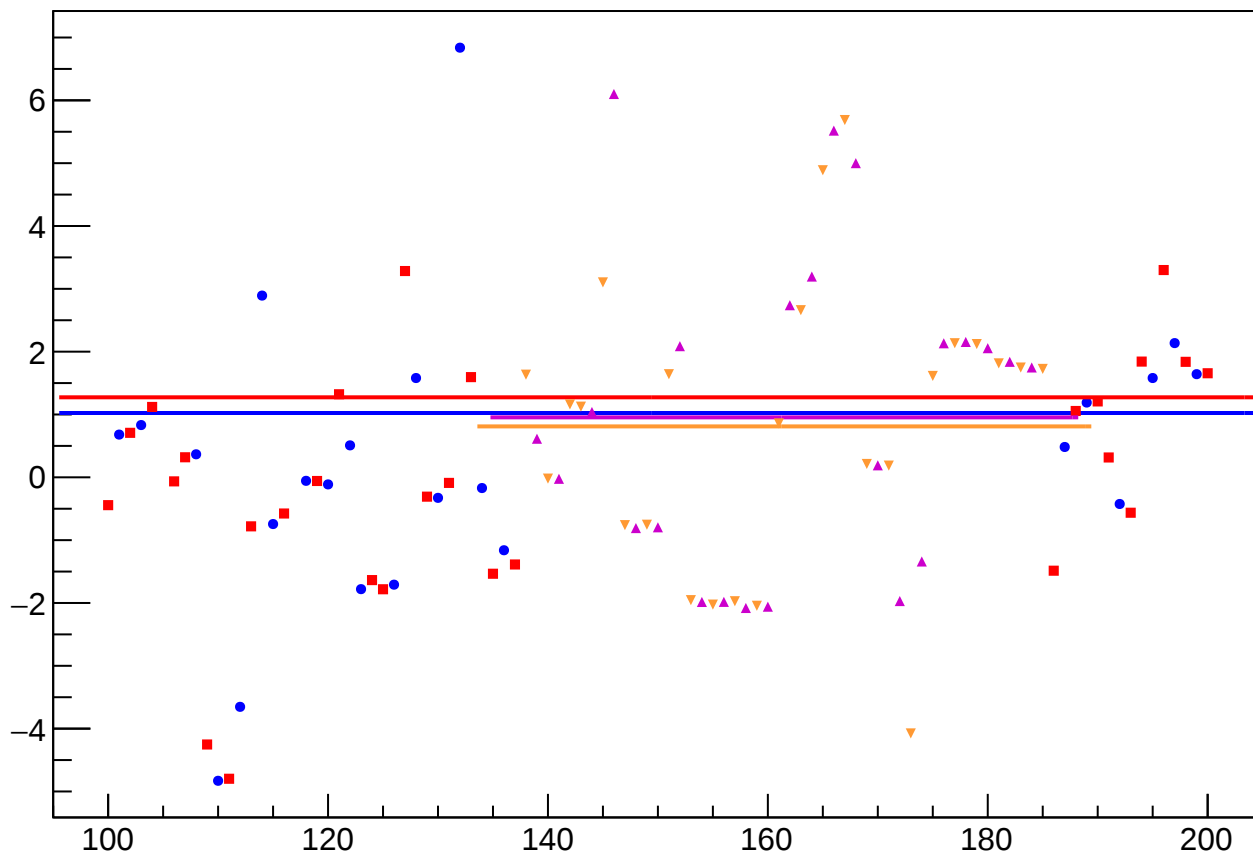
Right: 0.053+/-0.000 χ^2/NDF : 6205944.9/50

In: 0.018+/-0.000 χ^2/NDF : 12078726.4/45

Out: 0.019+/-0.000 χ^2/NDF : 14040776.1/52

All: 0.018+/-0.000 χ^2/NDF : 26178219.5/98

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.024+/-0.000

χ^2/NDF : 19443621255.5/22

Left: 0.883+/-0.000 χ^2/NDF : 1083260277372.9/47

Right: 1.162+/-0.000 χ^2/NDF : 43730691048.8/50

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

In: 0.963+/-0.000 χ^2/NDF : 594289450621.4/45

Right Out: 1.273+/-0.000

χ^2/NDF : 23852033400.0/27

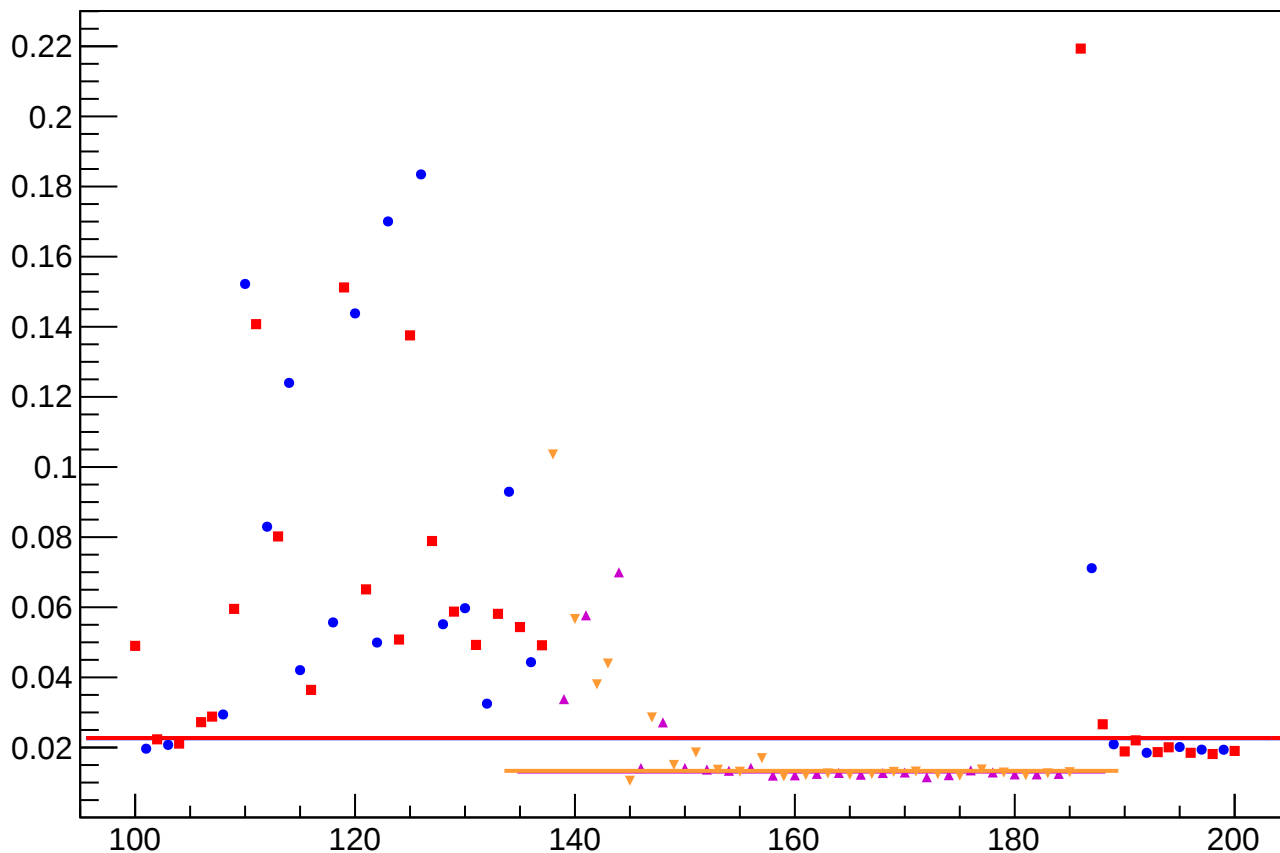
Out: 0.882+/-0.000 χ^2/NDF : 534273570143.2/52

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

All: 0.922+/-0.000 χ^2/NDF : 1128887894134.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 3634927.1/22

Left Out: 0.013+/-0.000 χ^2/NDF : 2829070.5/24

Right Out: 0.023+/-0.000 χ^2/NDF : 4758452.4/27

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

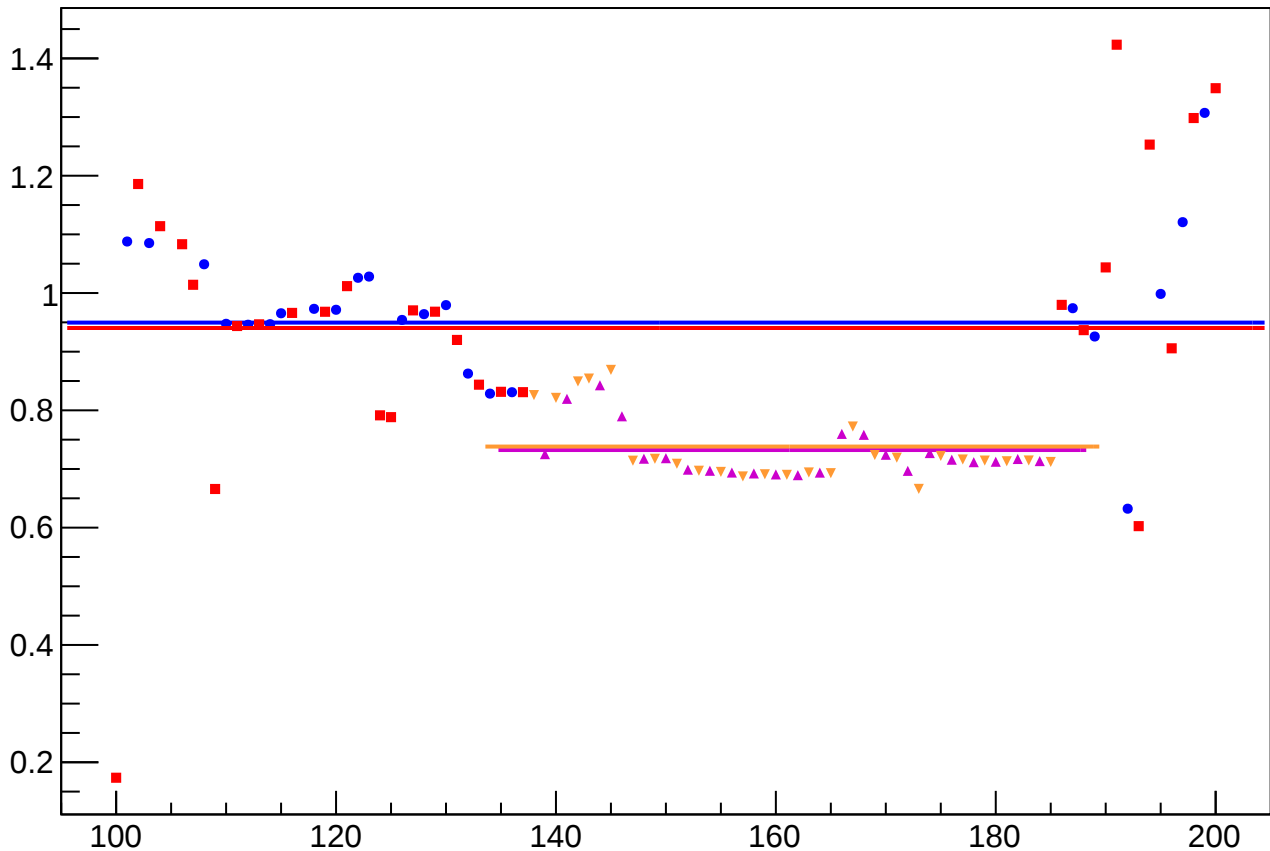
Right: 0.023+/-0.000 χ^2/NDF : 8393473.9/50

In: 0.014+/-0.000 χ^2/NDF : 7583175.9/45

Out: 0.015+/-0.000 χ^2/NDF : 9913805.8/52

All: 0.015+/-0.000 χ^2/NDF : 17516827.8/98

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.950 $\pm$ 0.000 χ^2 /NDF: 413599283.4/22

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF:310610047.7/24

Right Out: 0.940 $\pm$ 0.000 χ^2 /NDF: 852605091.3/27

Left In: 0.732 $\pm$ 0.000 χ^2 /NDF:170806298.1/22

Left: 0.735 $\pm$ 0.000 χ^2 /NDF: 482865670.9/47

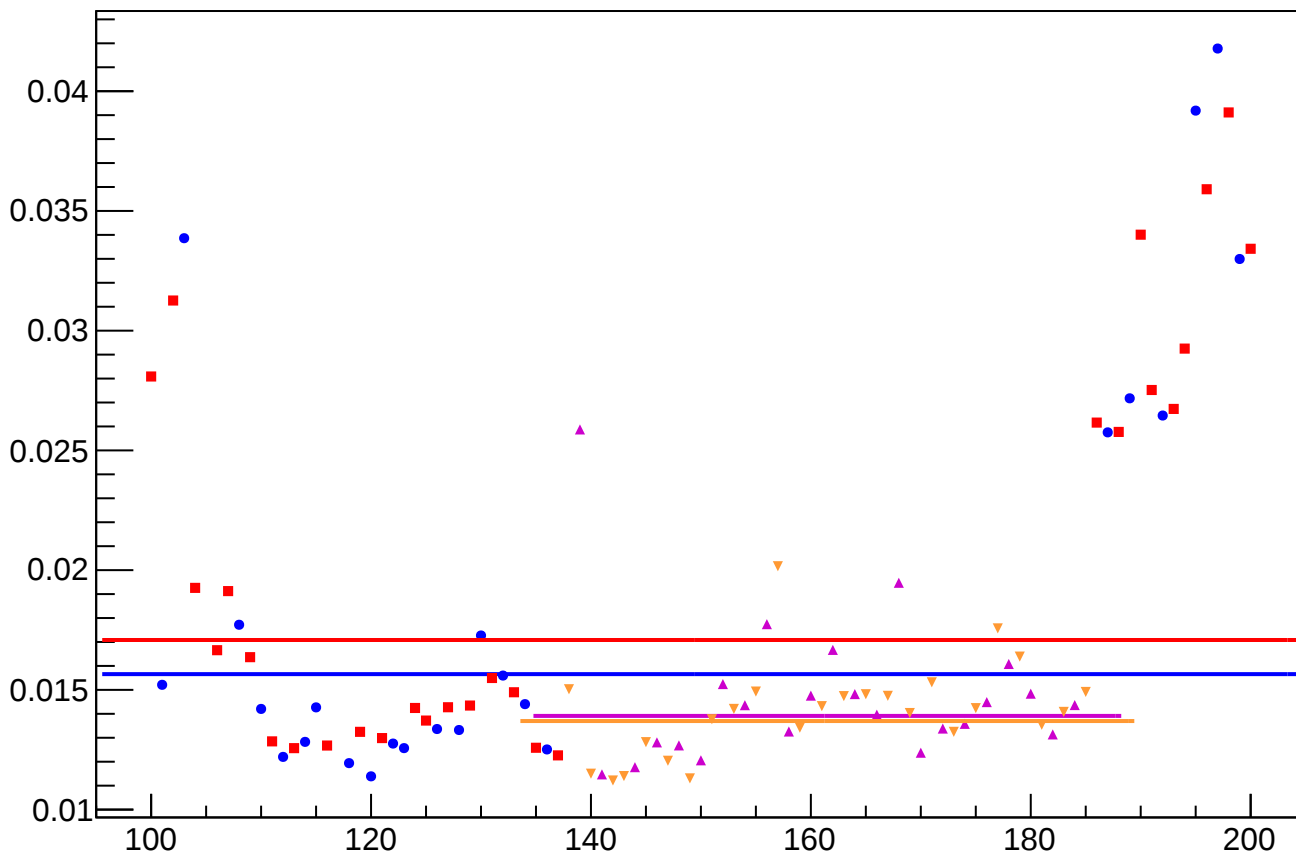
Right: 0.945 $\pm$ 0.000 χ^2 /NDF: 1267674105.3/50

In: 0.797 $\pm$ 0.000 χ^2 /NDF:1711587589.6/45

Out: 0.797 $\pm$ 0.000 χ^2 /NDF:2188967094.1/52

All: 0.797 $\pm$ 0.000 χ^2 /NDF: 3900554734.0/98

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 2787801.6/22

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.017+/-0.000 χ^2/NDF : 3172228.0/27

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

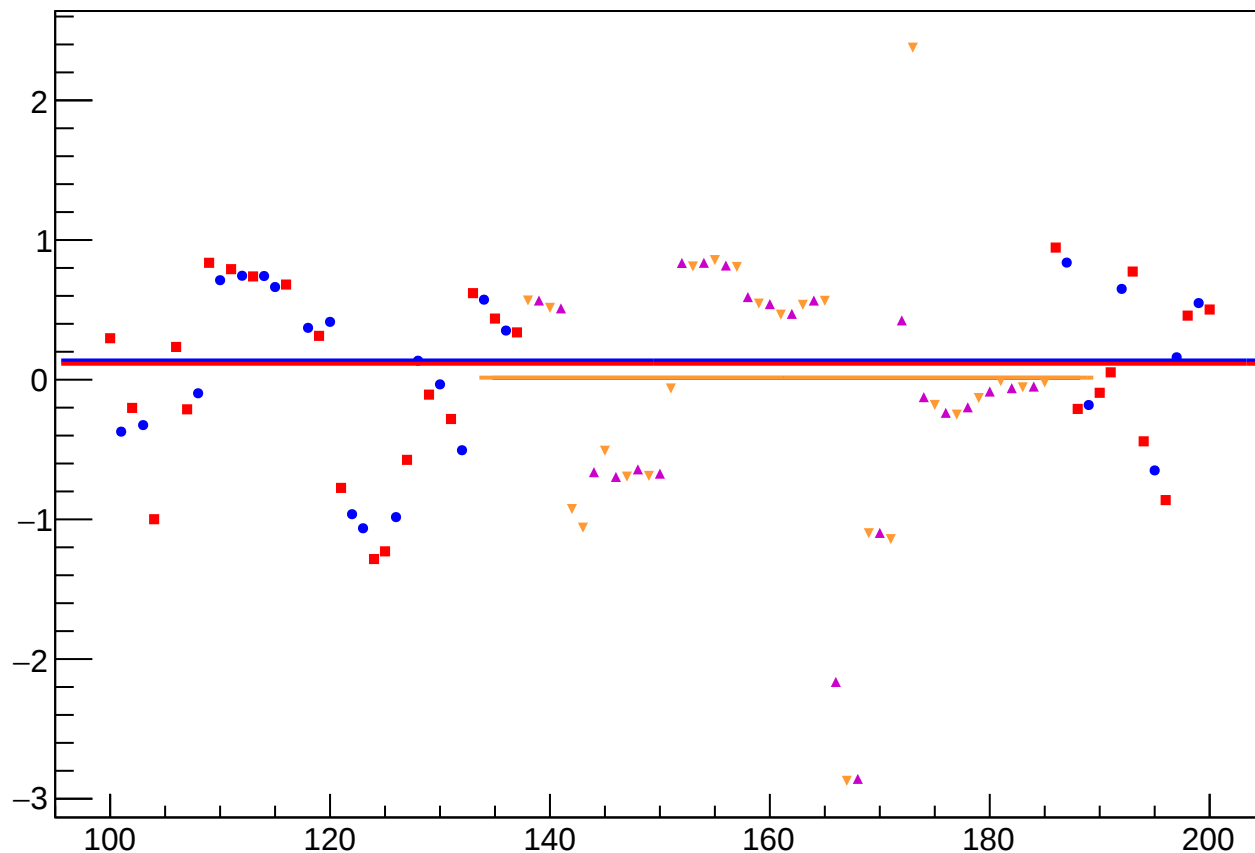
Right: 0.016+/-0.000 χ^2/NDF : 6030445.1/50

In: 0.014+/-0.000 χ^2/NDF : 3727716.3/45

Out: 0.015+/-0.000 χ^2/NDF : 4278237.8/52

All: 0.015+/-0.000 χ^2/NDF : 8013290.7/98

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.138+/-0.000

χ^2/NDF : 13428326596.1/22

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

Right: 0.124+/-0.000 χ^2/NDF : 38054227464.9/50

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

In: 0.053+/-0.000 χ^2/NDF : 93401113489.2/45

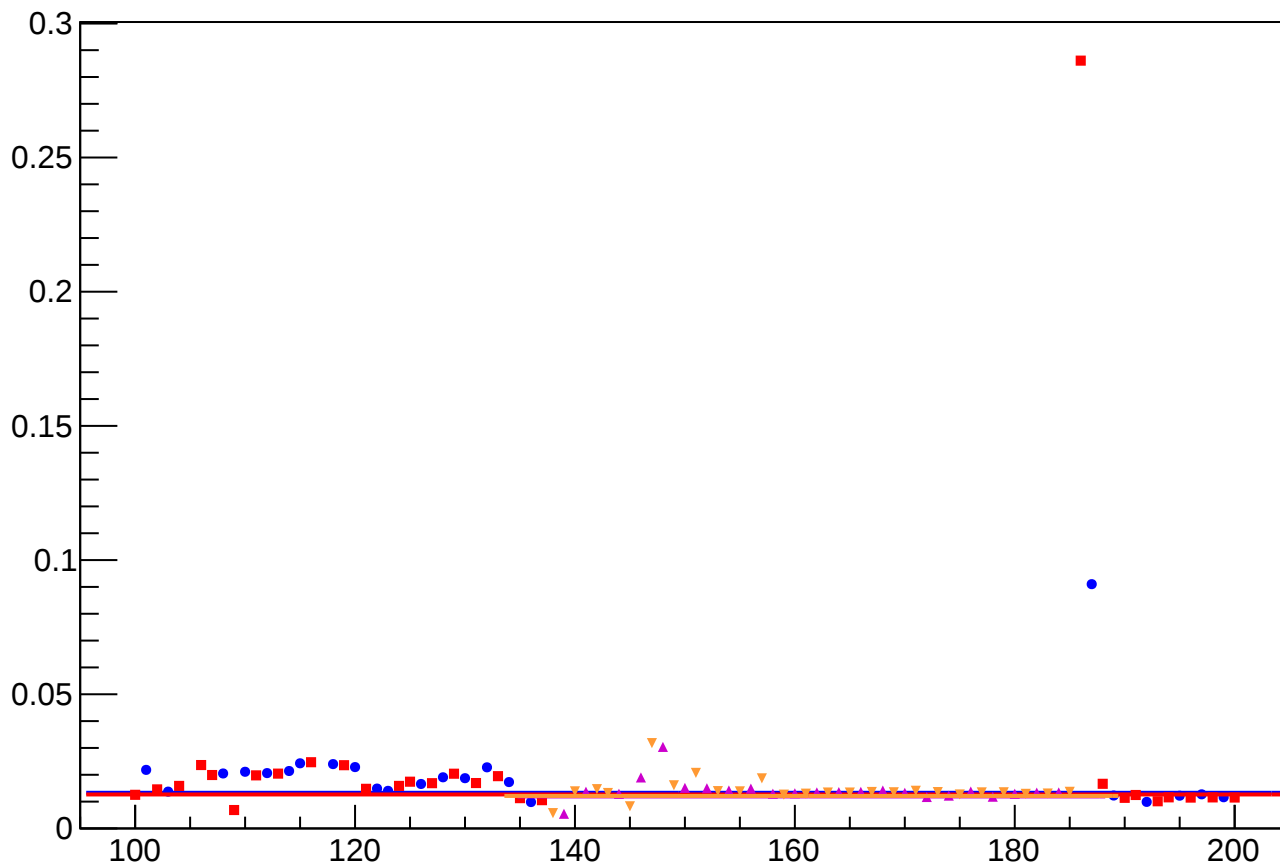
Right Out: 0.114+/-0.000 χ^2/NDF : 24610536292.4/27

Out: 0.052+/-0.000 χ^2/NDF : 121102805459.6/52

Left In: 0.013+/-0.000 χ^2/NDF : 79445696658.6/22

All: 0.052+/-0.000 χ^2/NDF : 214503987182.0

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1816169.9/22

Left Out: 0.012+/-0.000 χ^2/NDF : 3107648.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2518648.1/27

Left In: 0.012+/-0.000 χ^2/NDF : 3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

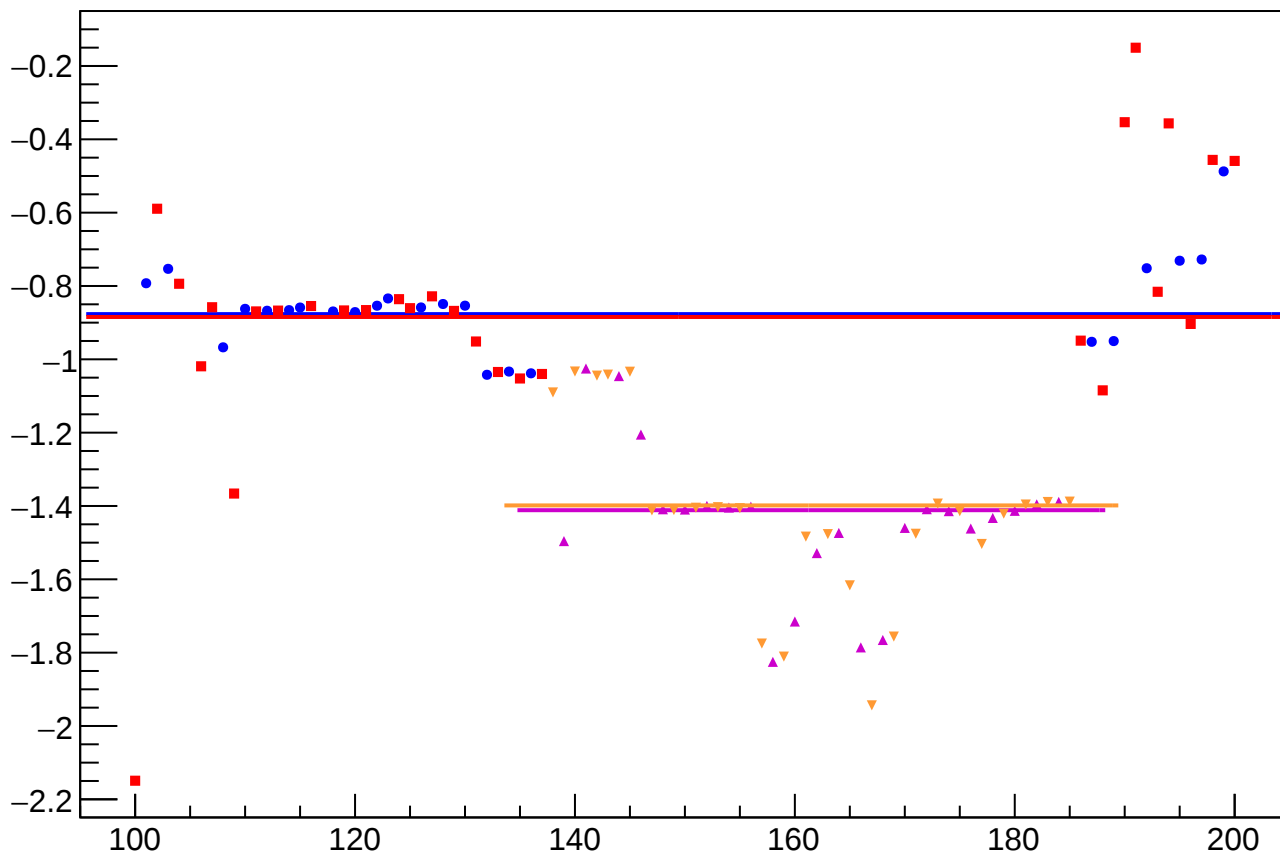
Right: 0.013+/-0.000 χ^2/NDF : 4356705.3/50

In: 0.012+/-0.000 χ^2/NDF : 5048452.7/45

Out: 0.012+/-0.000 χ^2/NDF : 5651286.8/52

All: 0.012+/-0.000 χ^2/NDF : 10700012.9/98

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.877 ± 0.000 $\chi^2/\text{NDF}: 68710606.7/22$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.885 ± 0.000 $\chi^2/\text{NDF}: 281651903.5/27$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

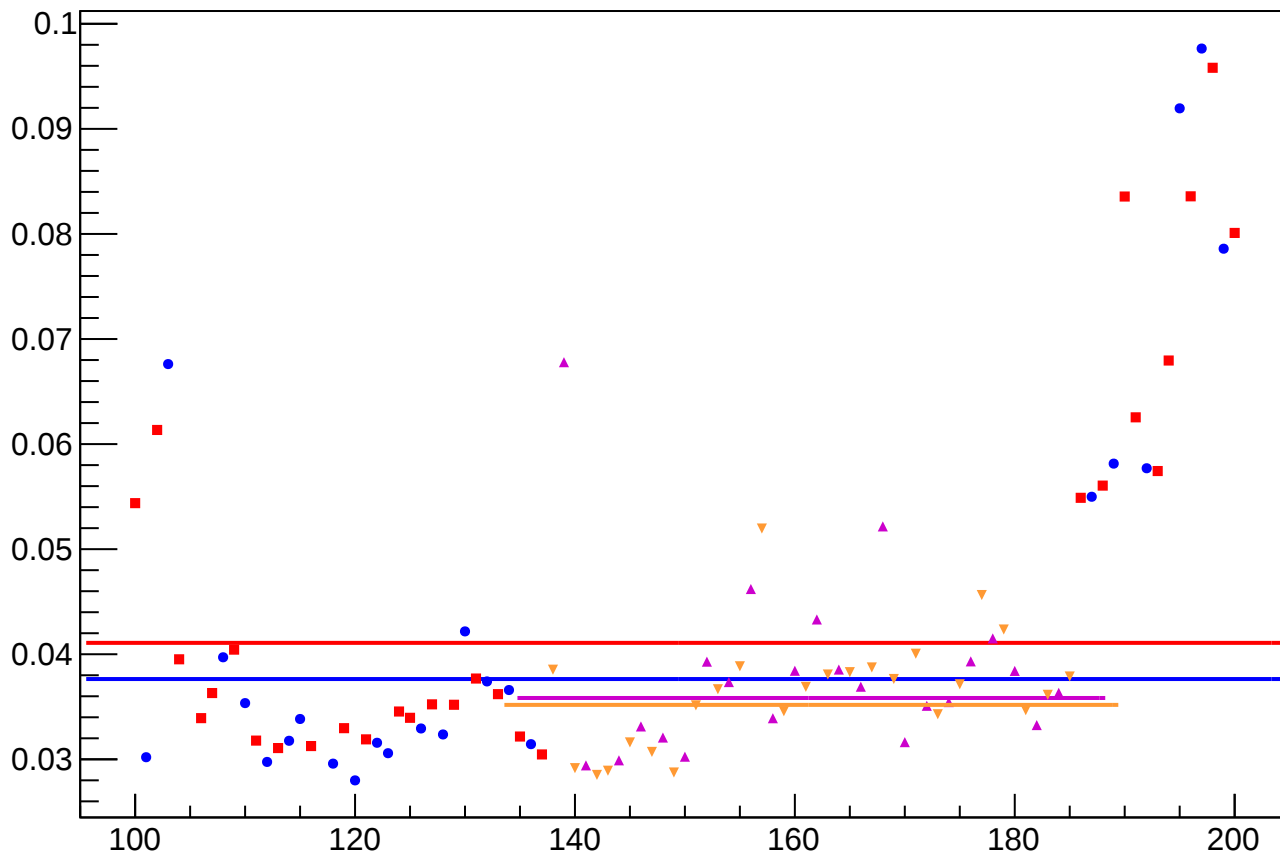
Right: -0.881 ± 0.000 $\chi^2/\text{NDF}: 350547288.6/50$

In: -1.233 ± 0.000 $\chi^2/\text{NDF}: 1722616060.6/45$

Out: -1.232 ± 0.000 $\chi^2/\text{NDF}: 2128757178.1/52$

All: -1.233 ± 0.000 $\chi^2/\text{NDF}: 3851395862.5/9$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.038 $\pm$ 0.000 χ^2 /NDF: 2451321.6/22

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:597886.0/24

Right Out: 0.041 $\pm$ 0.000 χ^2 /NDF: 2676617.6/27

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

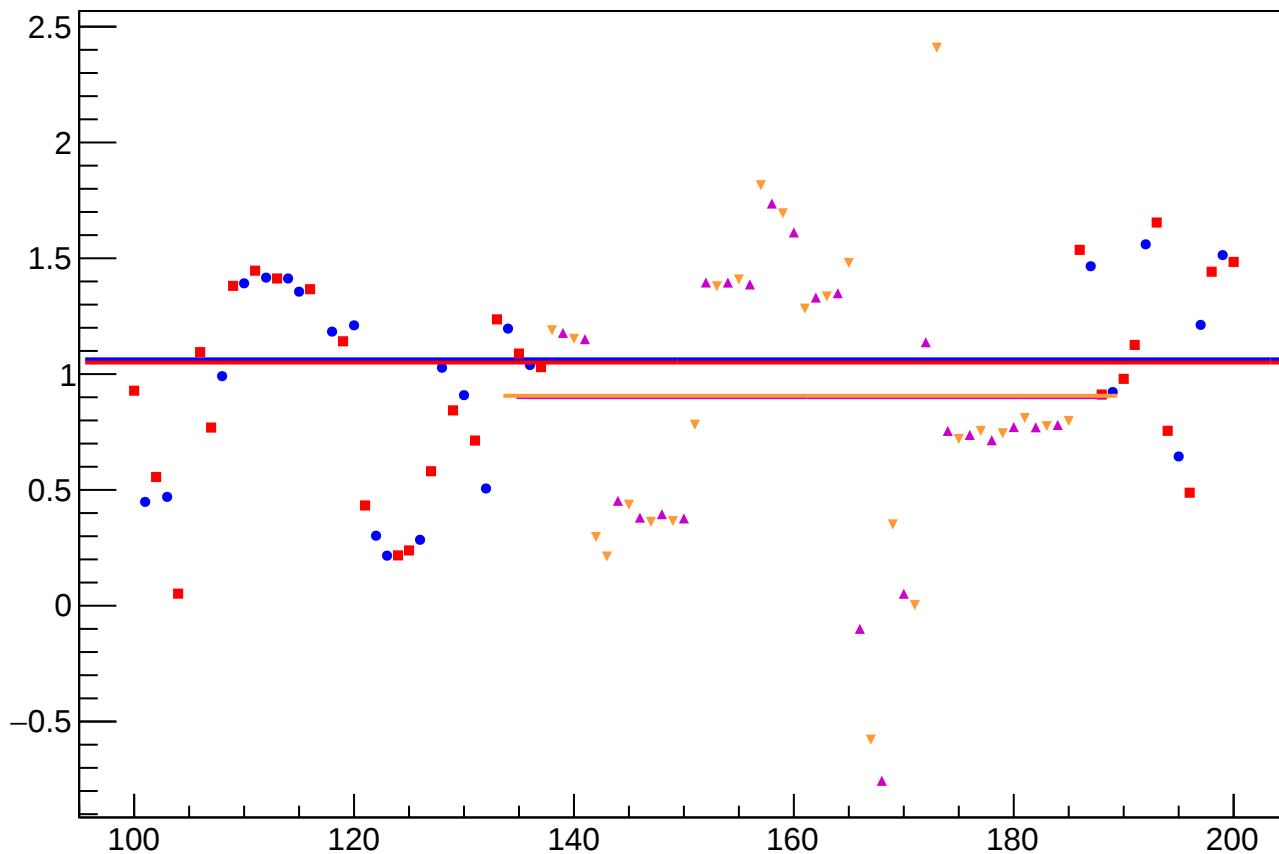
Right: 0.039 $\pm$ 0.000 χ^2 /NDF: 5200305.1/50

In: 0.036 $\pm$ 0.000 χ^2 /NDF:3368272.9/45

Out: 0.037 $\pm$ 0.000 χ^2 /NDF:3568001.1/52

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 6944282.0/98

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.064+/-0.000

χ^2/NDF : 17241216974.7/22

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 1.056+/-0.000 χ^2/NDF : 41143460592.2/50

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 0.956+/-0.000 χ^2/NDF : 86040231758.8/45

Right Out: 1.050+/-0.000

χ^2/NDF : 23891418438.6/27

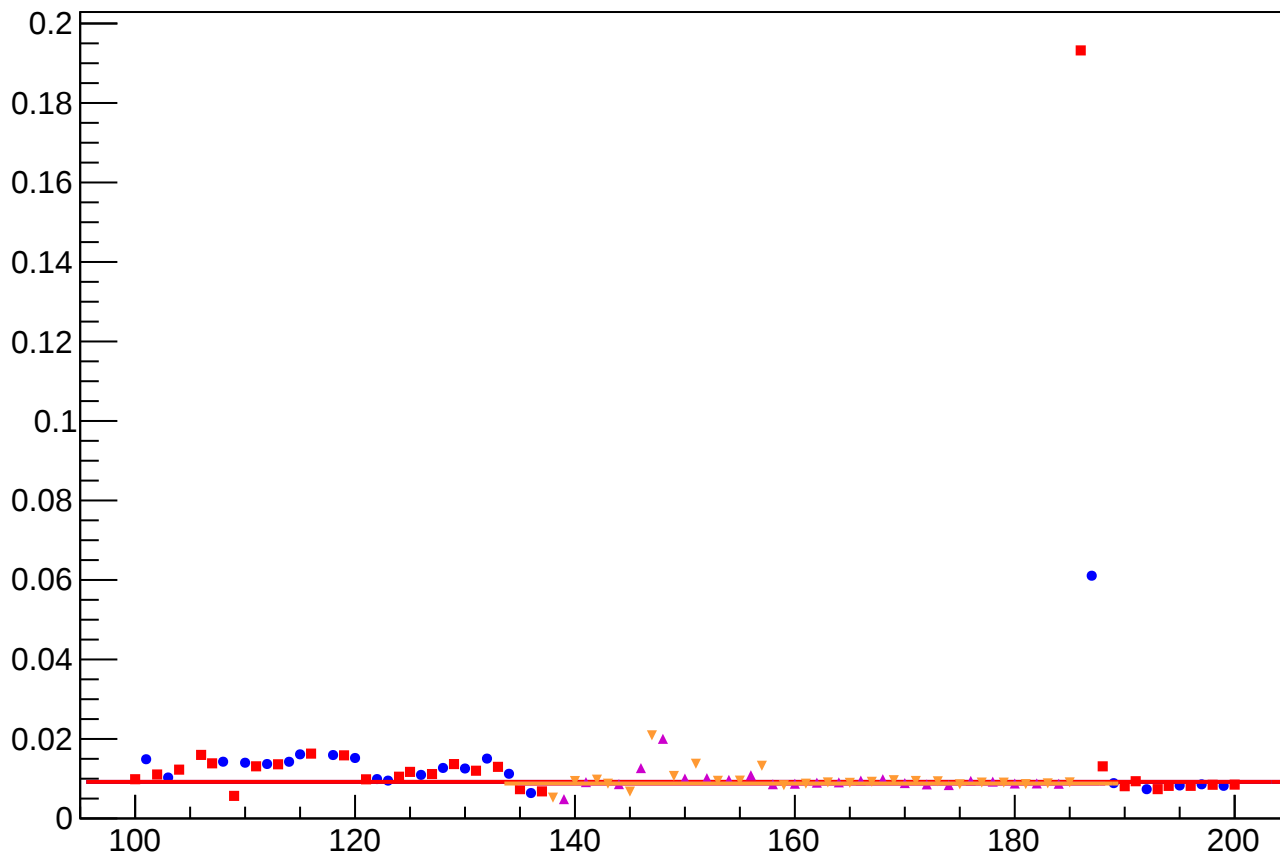
Out: 0.959+/-0.000 χ^2/NDF : 109655505336.0/52

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 0.957+/-0.000 χ^2/NDF : 195697620520.7

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1693434.2/22

Left Out: 0.009+/-0.000 χ^2/NDF :1698526.2/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2182379.2/27

Left In: 0.009+/-0.000 χ^2/NDF :1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

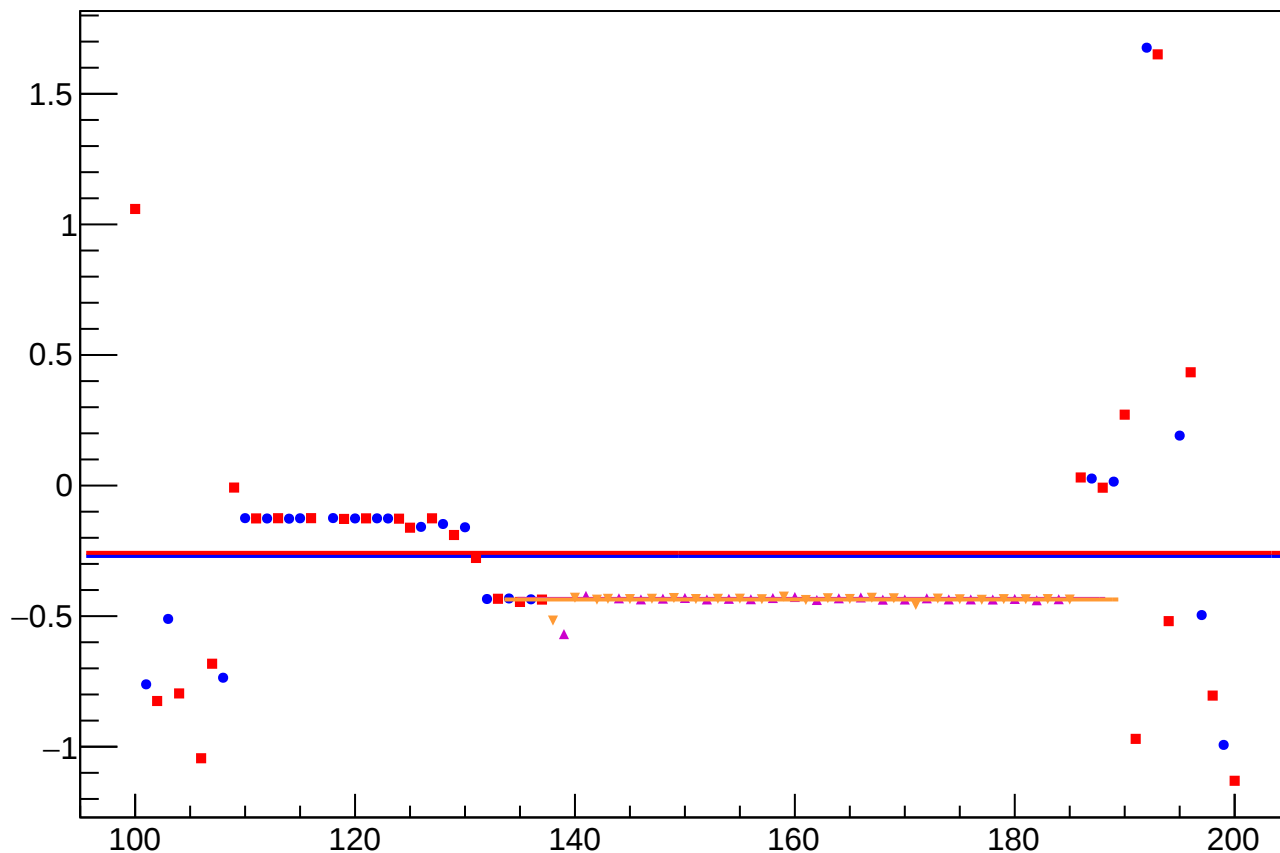
Right: 0.009+/-0.000 χ^2/NDF : 3875838.0/50

In: 0.009+/-0.000 χ^2/NDF :3392016.0/45

Out: 0.009+/-0.000 χ^2/NDF :3908910.4/52

All: 0.009+/-0.000 χ^2/NDF : 7301719.1/98

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.270+/-0.000 χ^2/NDF : 1998292898.5/22

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.258+/-0.000 χ^2/NDF : 2029417764.2/27

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

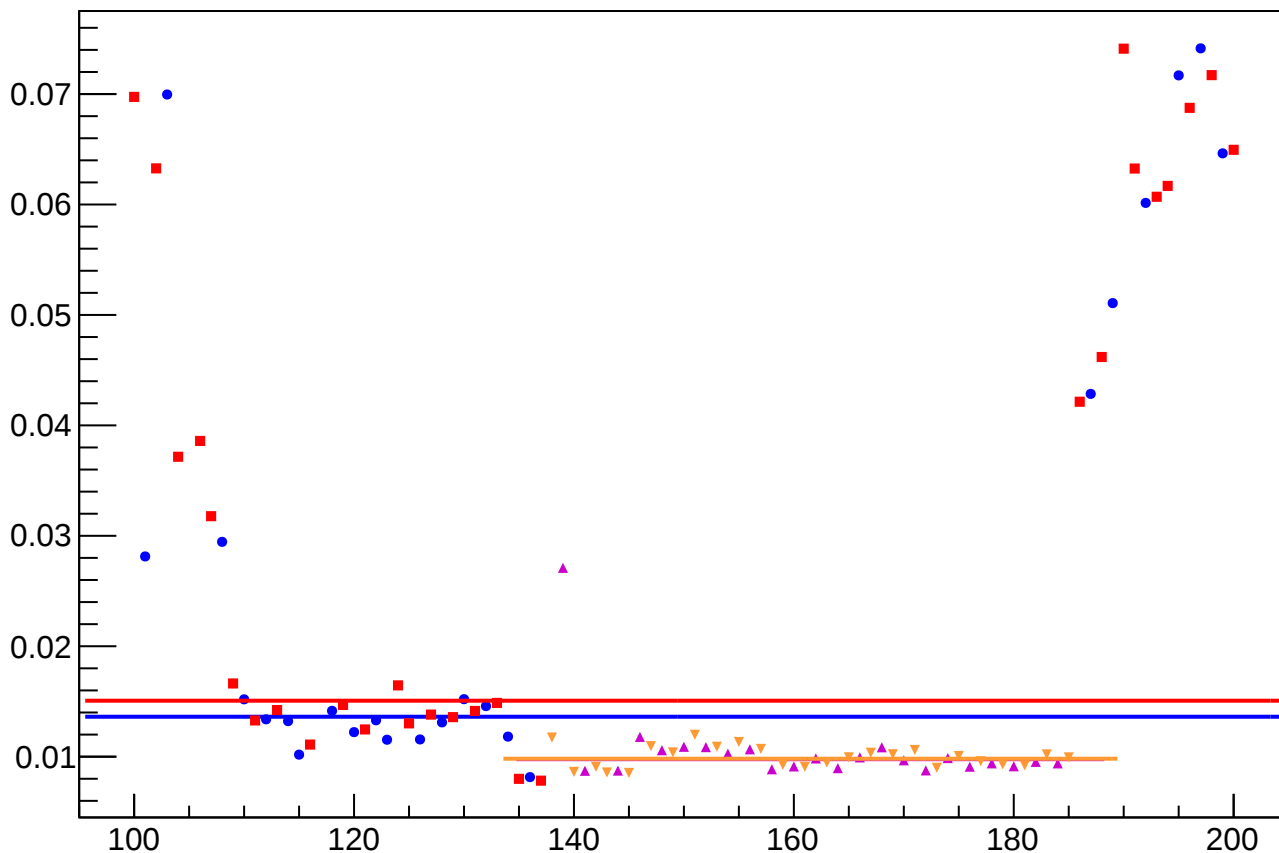
Right: -0.264+/-0.000 χ^2/NDF : 4029963680.4/50

In: -0.405+/-0.000 χ^2/NDF : 2743435529.1/45

Out: -0.407+/-0.000 χ^2/NDF : 2896738320.5/52

All: -0.406+/-0.000 χ^2/NDF : 5640573511.0/9

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2/NDF : 6528397.0/22

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF : 271172.3/24

Right Out: 0.015 $\pm$ 0.000 χ^2/NDF : 8641483.2/27

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

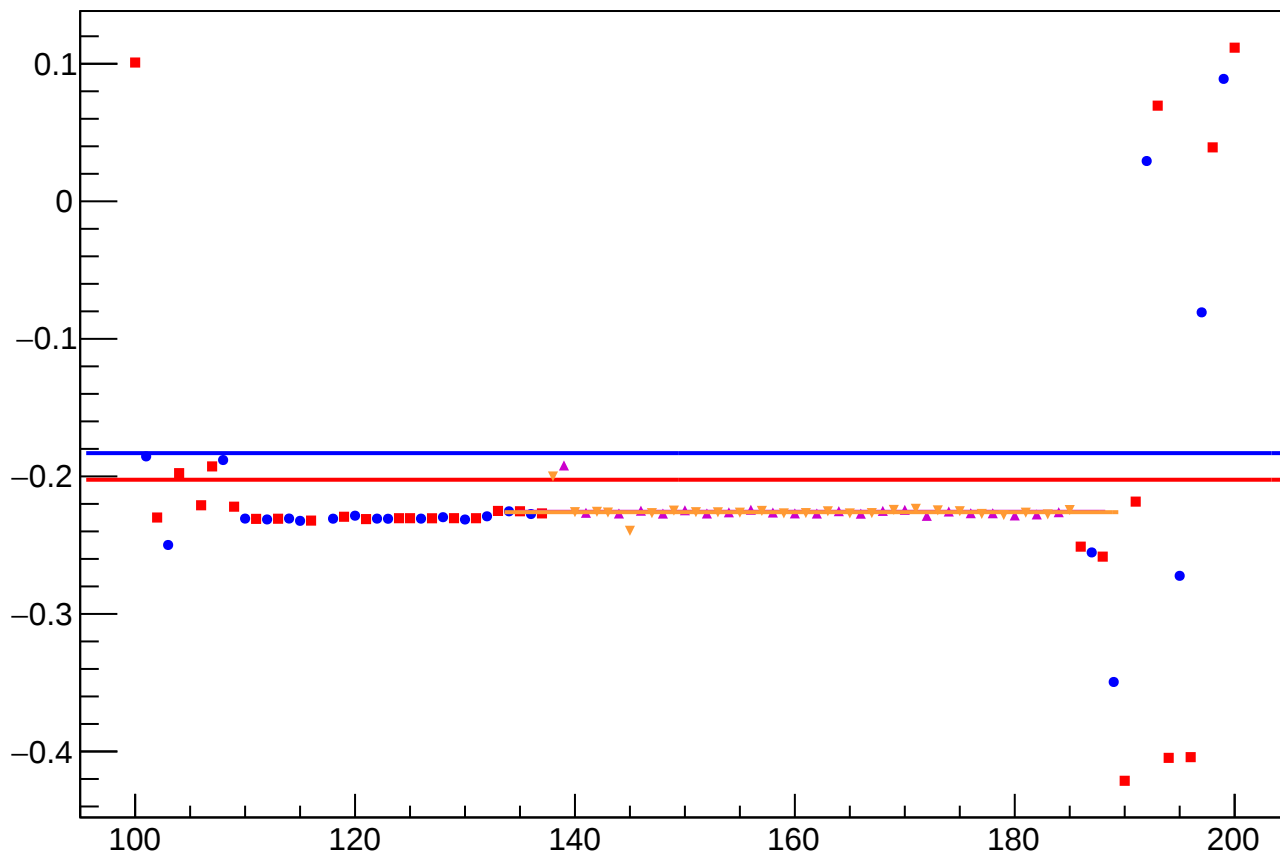
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 15237121.5/50

In: 0.010 $\pm$ 0.000 χ^2/NDF : 8107282.0/45

Out: 0.011 $\pm$ 0.000 χ^2/NDF : 10364491.5/52

All: 0.011 $\pm$ 0.000 χ^2/NDF : 18481022.2/98

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.183+/-0.000 χ^2/NDF : 4190348997.9/22

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.202+/-0.000 χ^2/NDF : 7570913004.1/27

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

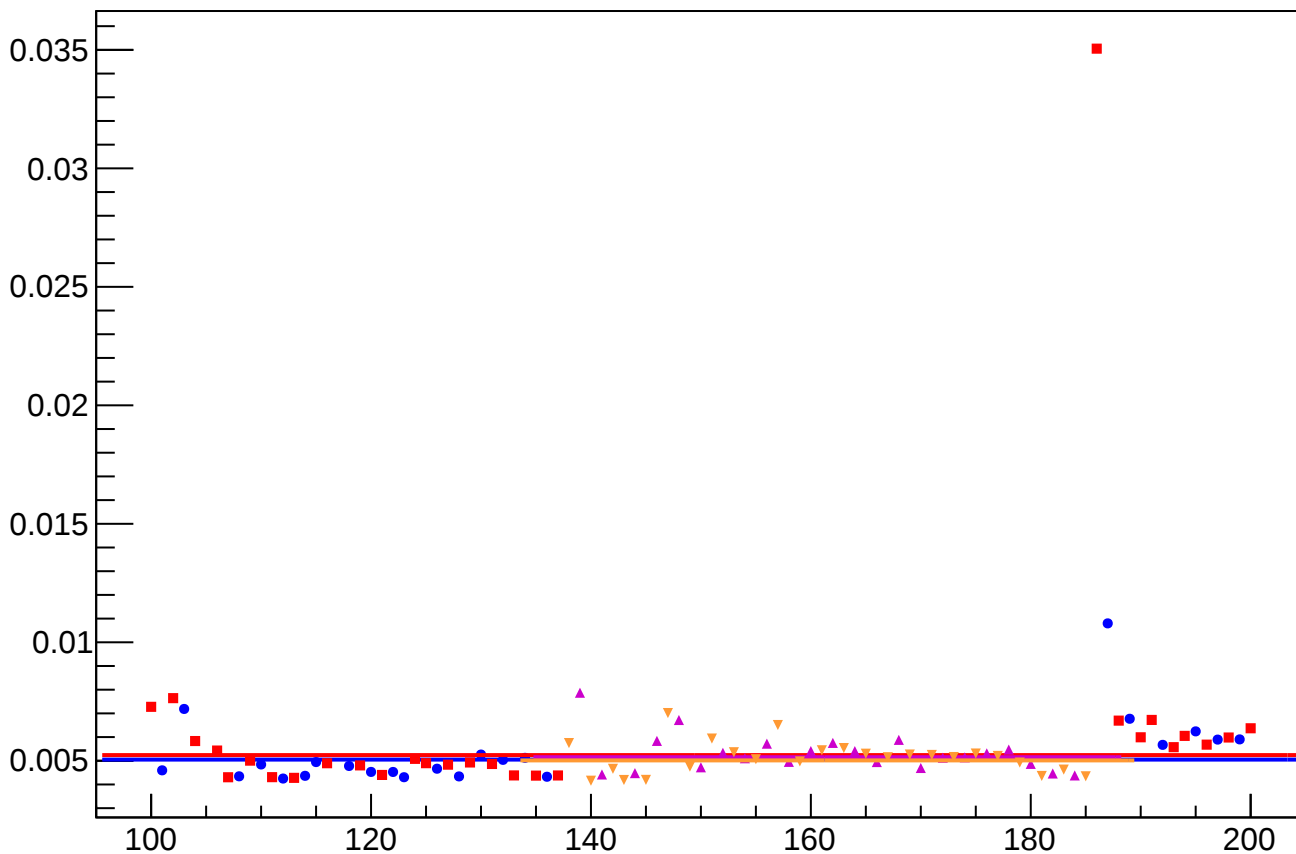
Right: -0.193+/-0.000 χ^2/NDF : 11835319349.1/50

In: -0.210+/-0.000 χ^2/NDF : 4627831861.8/45

Out: -0.217+/-0.000 χ^2/NDF : 7737146627.4/52

All: -0.214+/-0.000 χ^2/NDF : 12393562723.9/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 528101.2/22

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1108850.1/27

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

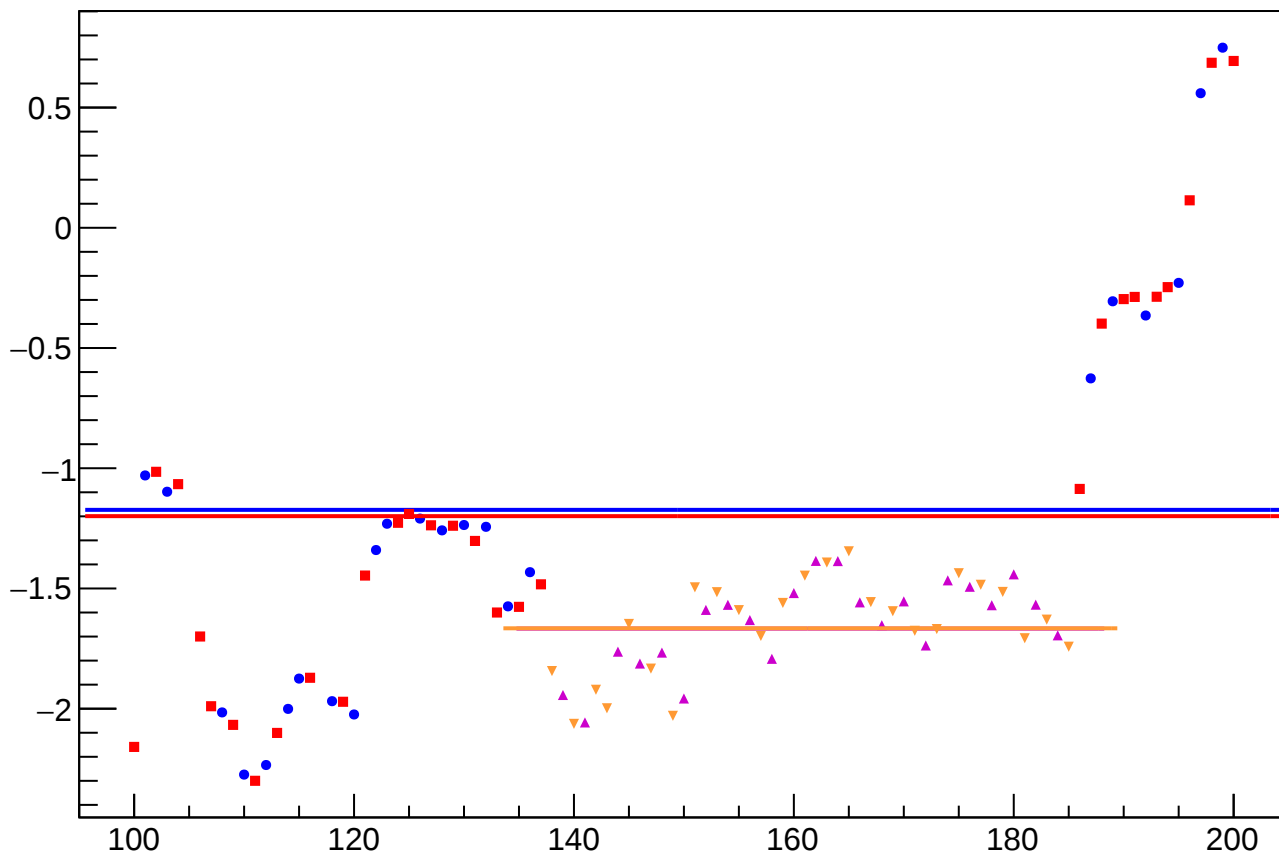
Right: 0.005+/-0.000 χ^2/NDF : 1651200.8/50

In: 0.005+/-0.000 χ^2/NDF : 1036762.2/45

Out: 0.005+/-0.000 χ^2/NDF : 1667559.8/52

All: 0.005+/-0.000 χ^2/NDF : 2704448.1/98

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.173+/-0.000

χ^2/NDF : 100403125078.5/22

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -1.188+/-0.000

χ^2/NDF : 247673206051.1/50

Right Out: -1.199+/-0.000

χ^2/NDF : 147203529003.1/27

In: -1.520+/-0.000

χ^2/NDF : 144939061903.8/45

Out: -1.511+/-0.000

χ^2/NDF : 197505459806.2/52

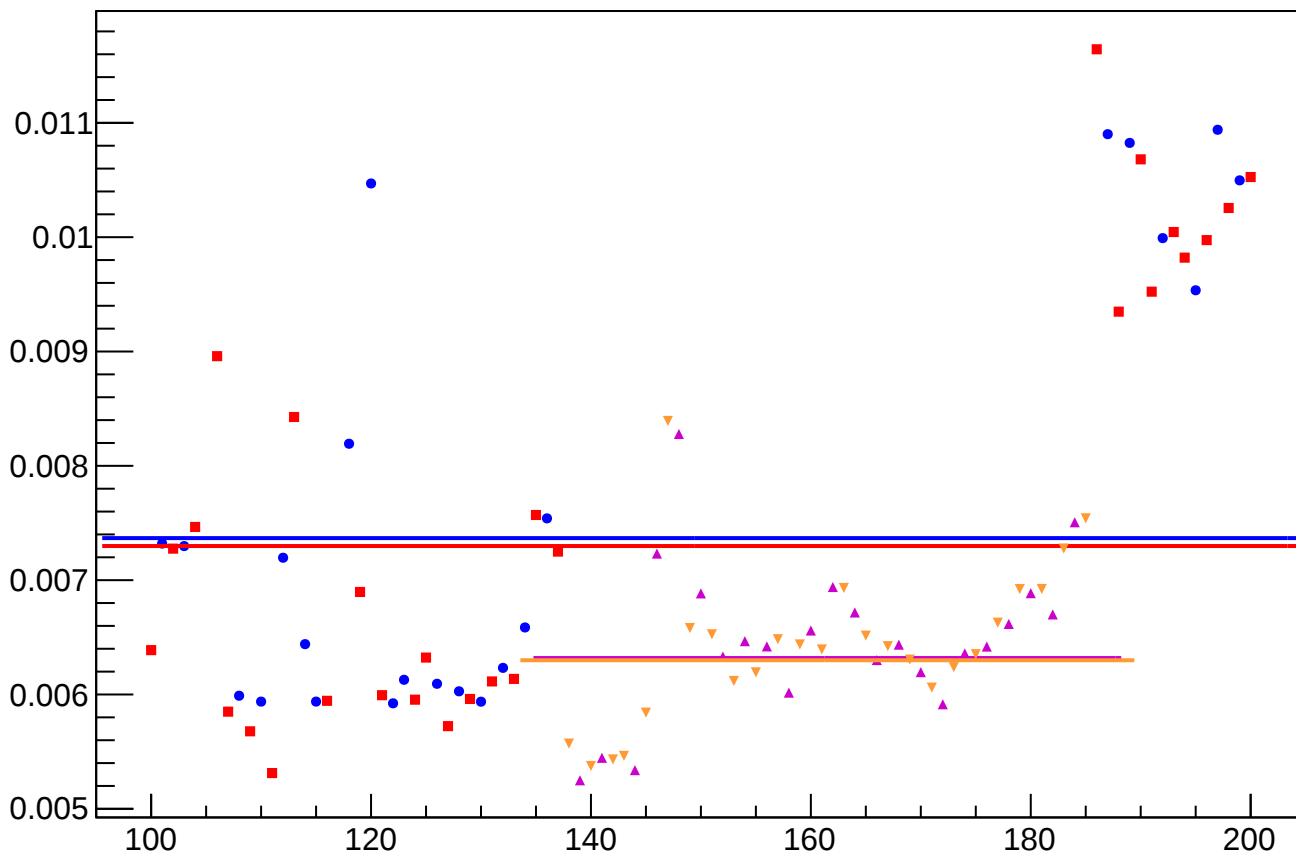
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.515+/-0.000

χ^2/NDF : 342474574894.8

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 981293.8/22

Left Out: 0.006+/-0.000 χ^2/NDF : 312811.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1413255.5/27

Left In: 0.006+/-0.000 χ^2/NDF : 334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

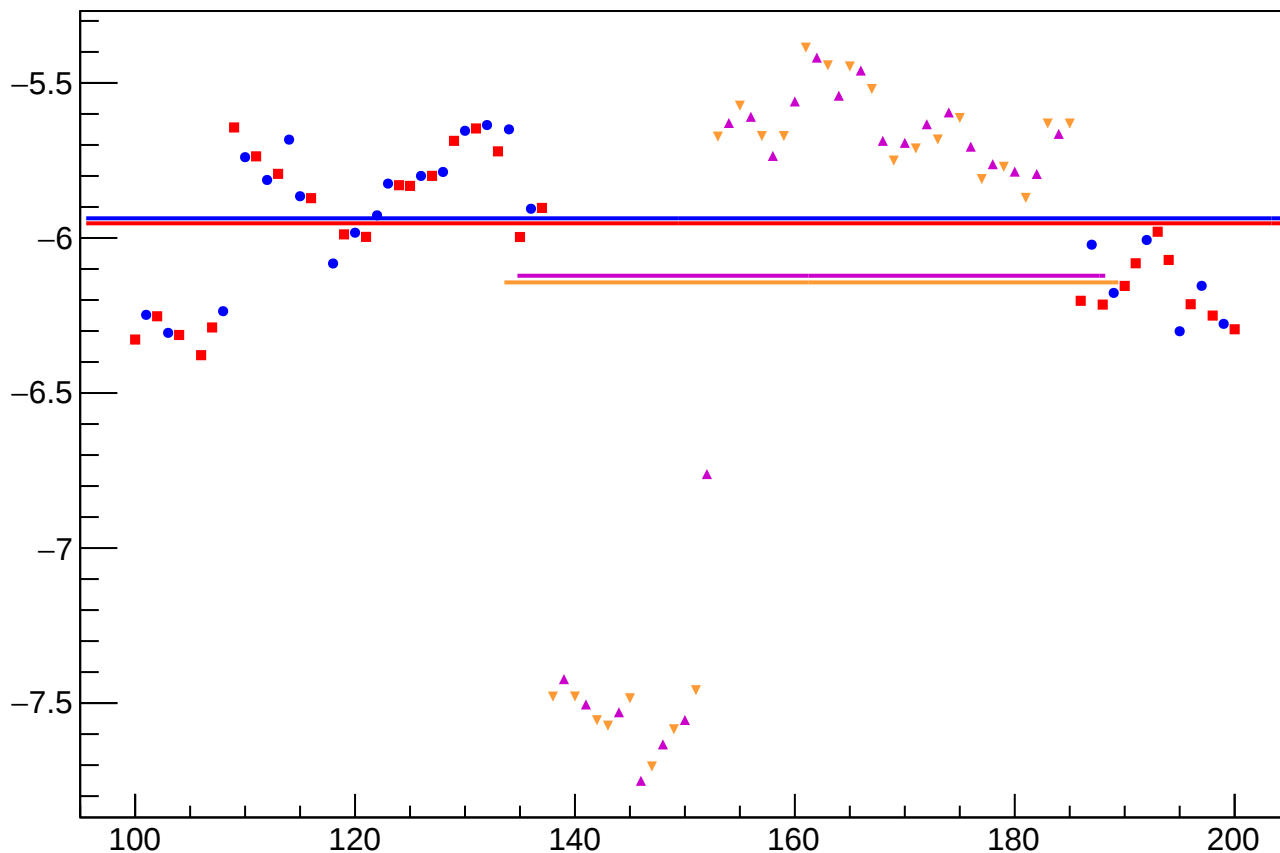
Right: 0.007+/-0.000 χ^2/NDF : 2395485.0/50

In: 0.007+/-0.000 χ^2/NDF : 1585665.5/45

Out: 0.007+/-0.000 χ^2/NDF : 2019053.0/52

All: 0.007+/-0.000 χ^2/NDF : 3604720.1/98

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.937+/-0.000 χ^2/NDF : 12820279679.4/22

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.953+/-0.000 χ^2/NDF : 14983031098.4/27

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

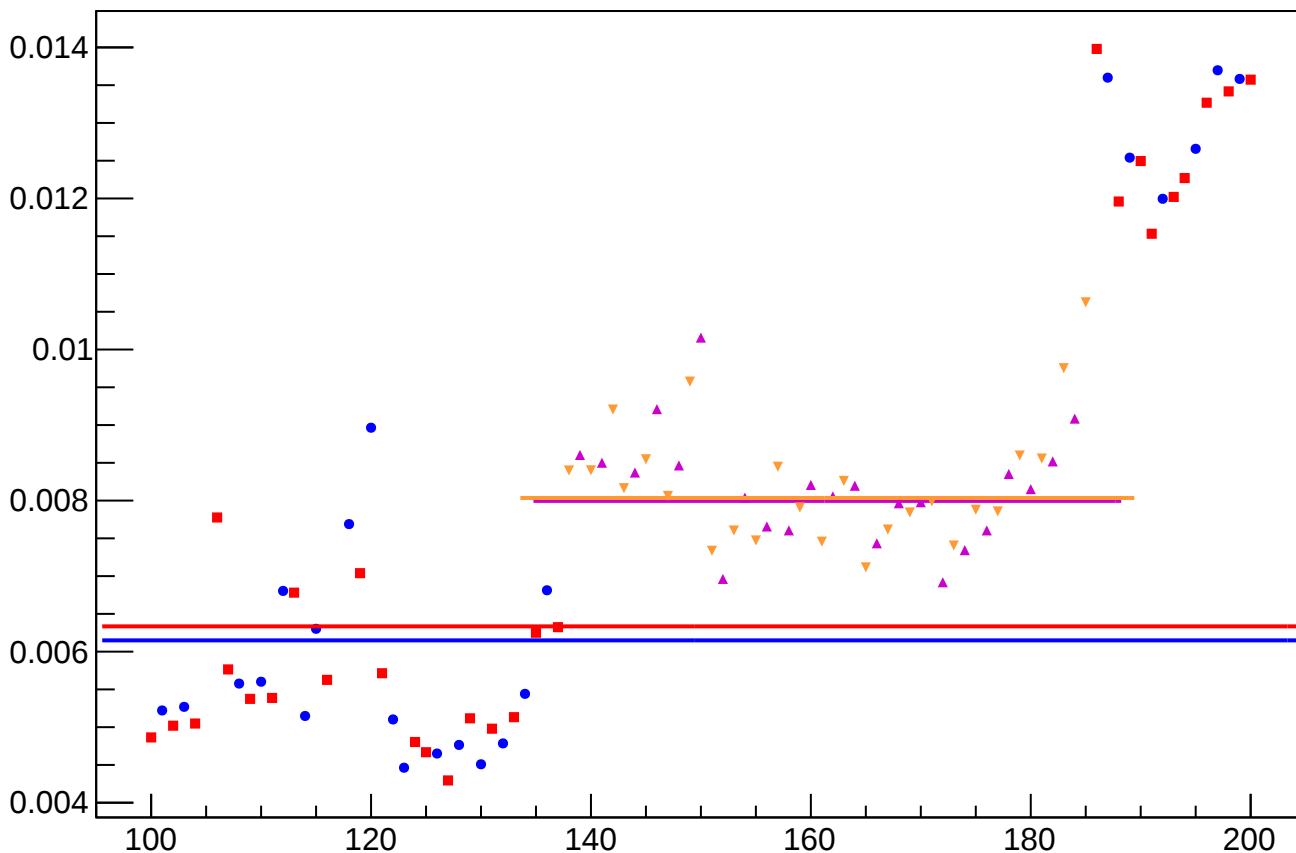
Right: -5.945+/-0.000 χ^2/NDF : 27834663709.5/50

In: -6.034+/-0.000 χ^2/NDF : 176775932574.7/45

Out: -6.048+/-0.000 χ^2/NDF : 205385886230.3/52

All: -6.041+/-0.000 χ^2/NDF : 382209779794.6/100

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2663061.2/22

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 3547915.0/27

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

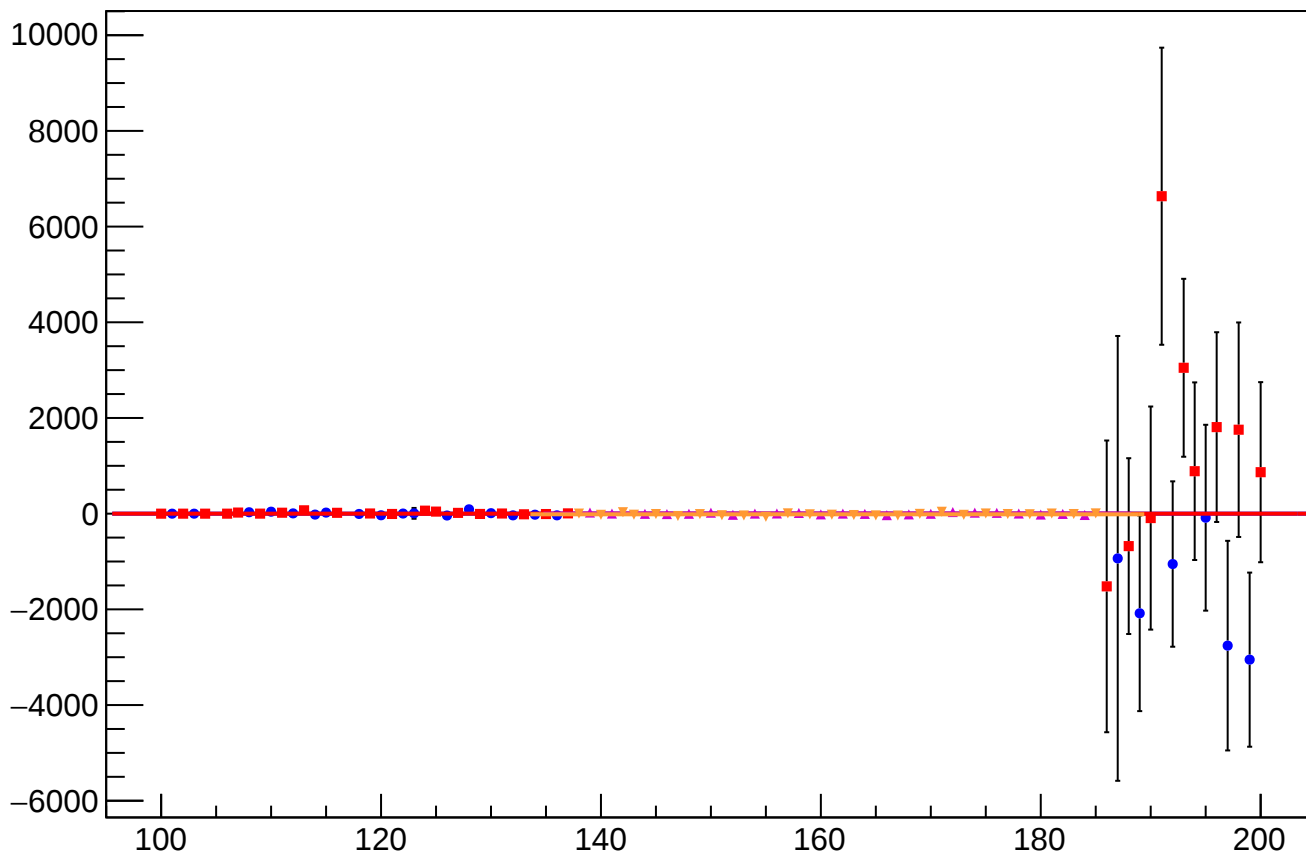
Right: 0.006+/-0.000 χ^2/NDF : 6219209.9/50

In: 0.007+/-0.000 χ^2/NDF :3687746.3/45

Out: 0.007+/-0.000 χ^2/NDF :4499114.7/52

All: 0.007+/-0.000 χ^2/NDF : 8188830.1/98

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 22.1/22$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 24.5/27$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

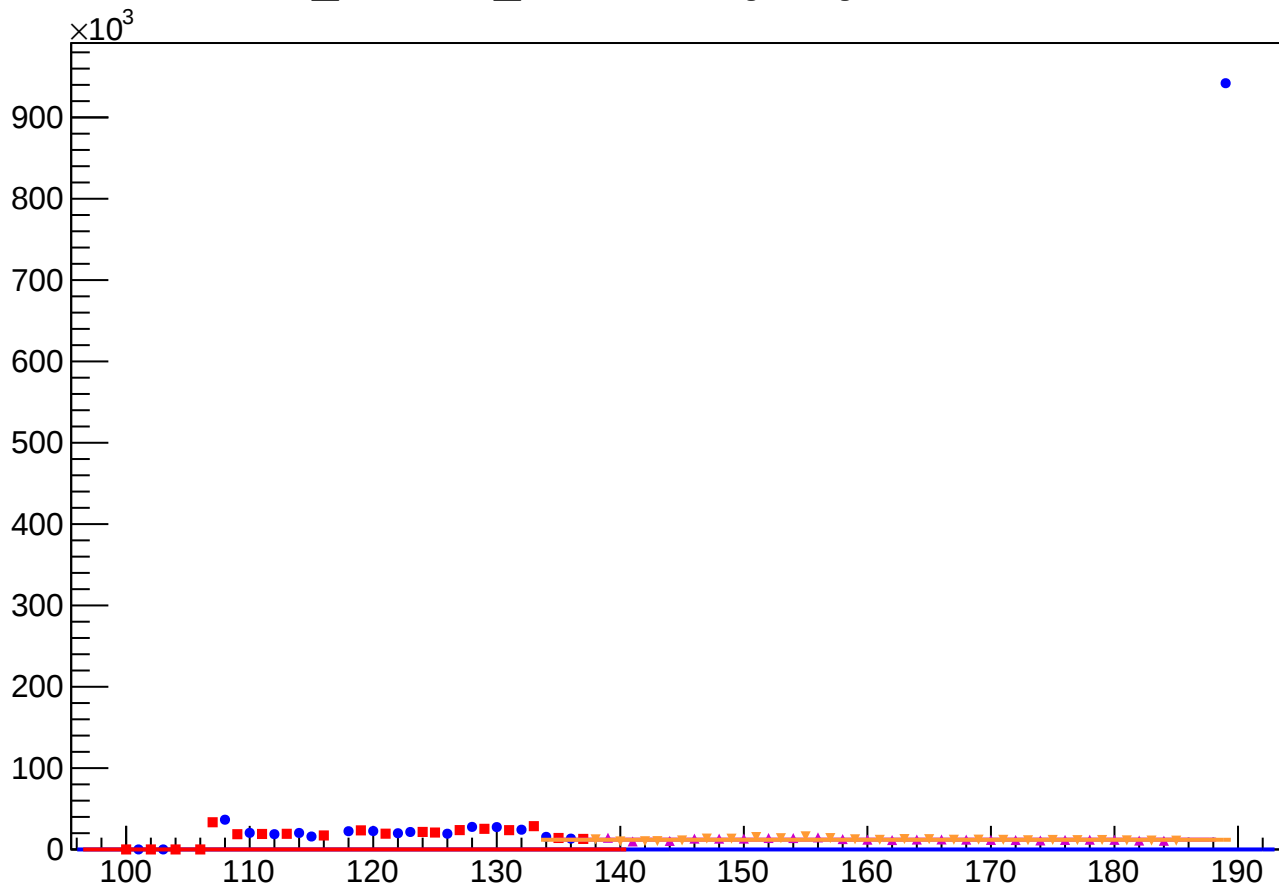
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 47.1/50$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 50.8/45$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 106.2/52$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 157.5/98$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.640+/-0.012 χ^2/NDF : 10982766.4/17

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

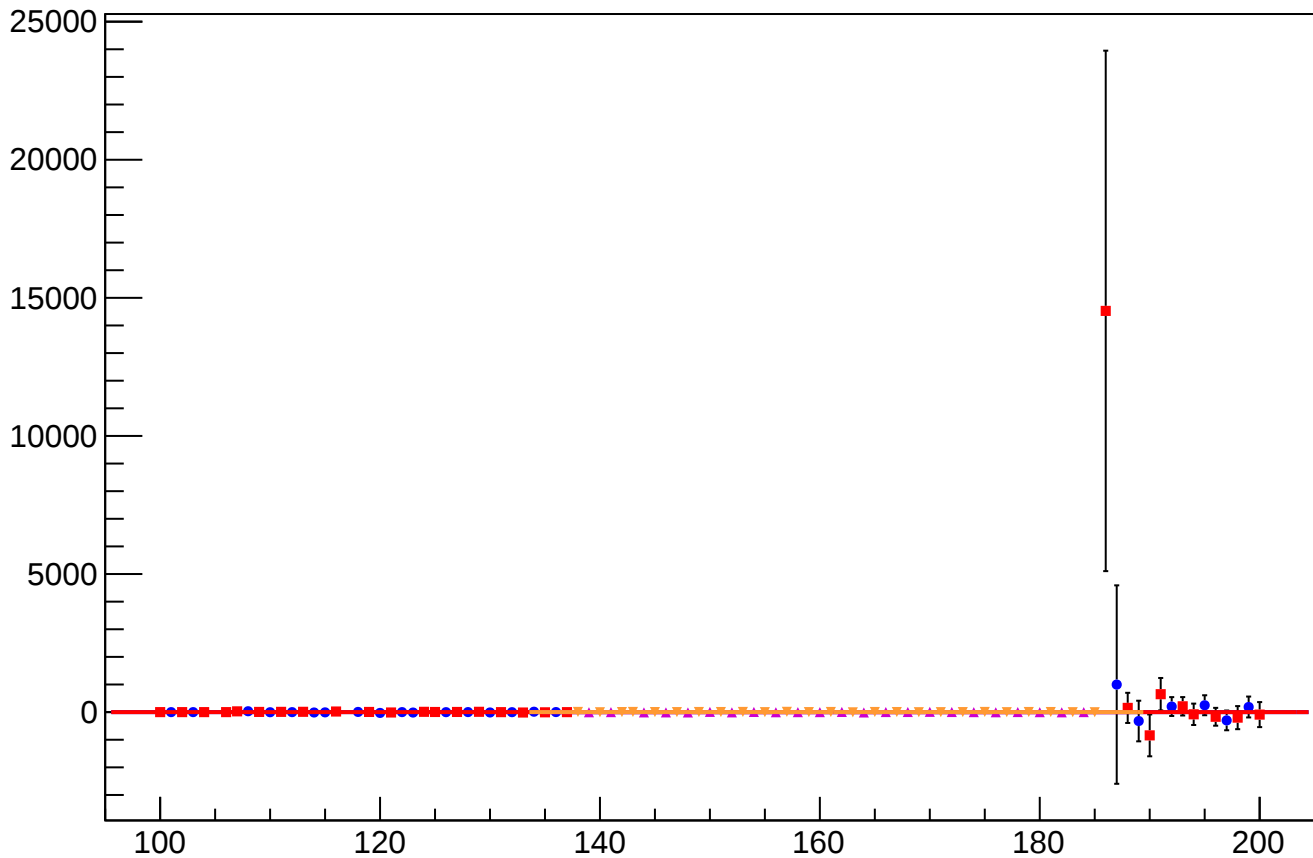
Right: 18.463+/-0.008 χ^2/NDF : 22039209.8/36

In: 19.069+/-0.012 χ^2/NDF : 45733258.4/40

Out: 18.704+/-0.011 χ^2/NDF : 47698495.9/43

All: 18.873+/-0.008 χ^2/NDF : 93432232.0/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 16.7/22

Left Out: 1.675 ± 1.021 χ^2/NDF : 17.9/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 24.5/27

Left In: -0.843 ± 1.043 χ^2/NDF : 35.7/22

Left: 0.443 ± 0.730 χ^2/NDF : 56.5/47

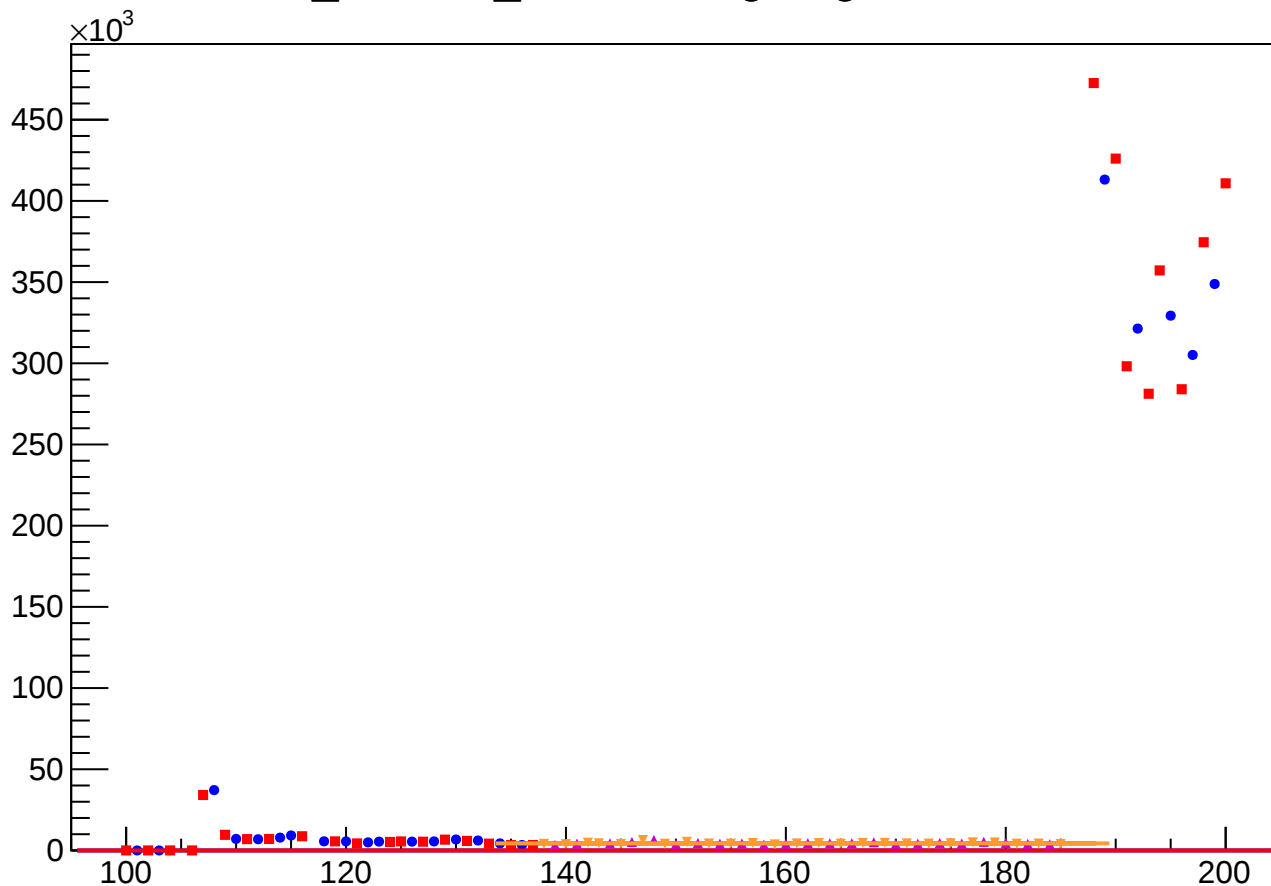
Right: -0.007 ± 0.006 χ^2/NDF : 42.6/50

In: 0.001 ± 0.009 χ^2/NDF : 53.0/45

Out: -0.014 ± 0.009 χ^2/NDF : 45.1/52

All: -0.007 ± 0.006 χ^2/NDF : 99.5/98

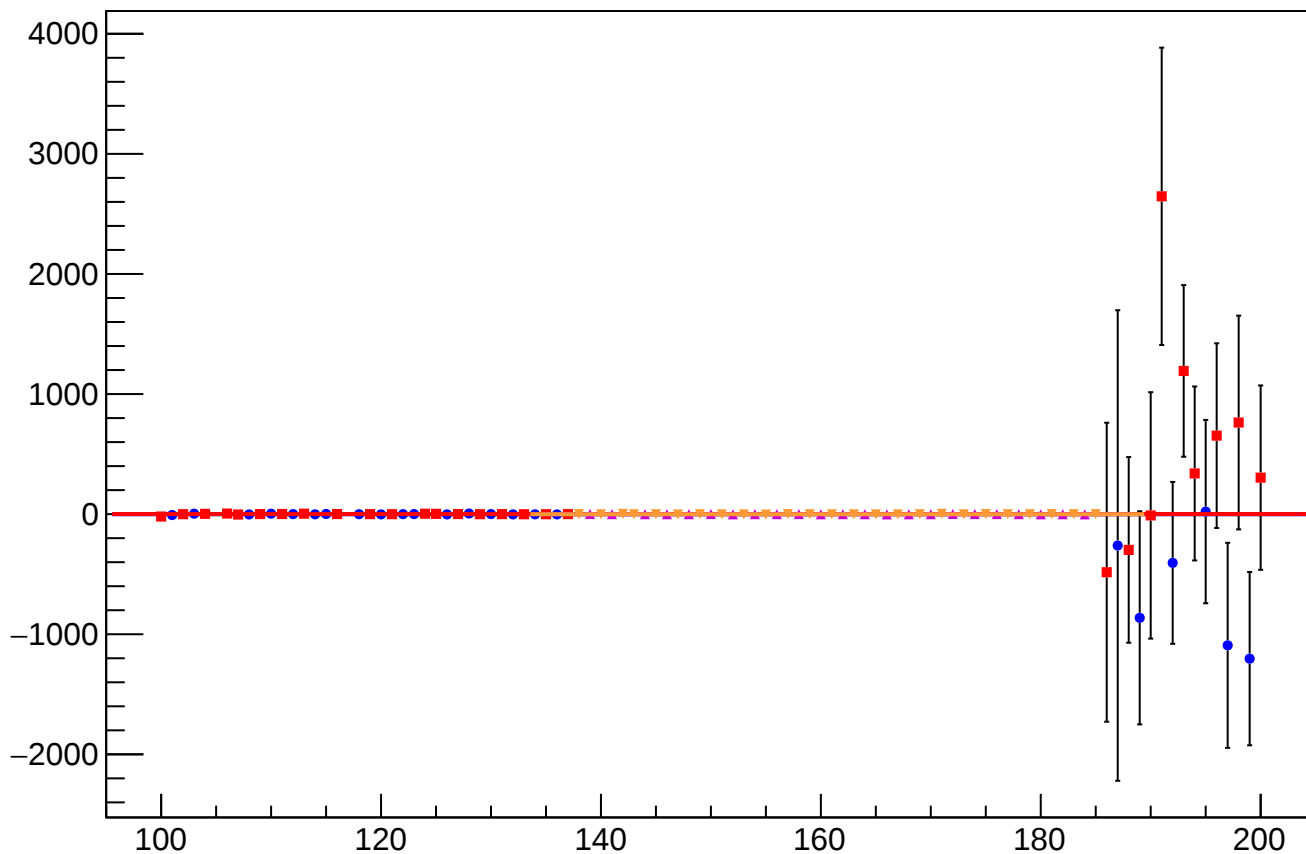
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939+/-0.007 χ^2/NDF : 18129853.0/21
 Left Out: 4350.545+/-0.722 χ^2/NDF : 384749.0/24
 Right Out: 9.855+/-0.006 χ^2/NDF : 21653009.7/26
 Left In: 4314.568+/-0.738 χ^2/NDF : 534594.3/22

Left: 4332.940+/-0.516 χ^2/NDF : 920558.3/47
 Right: 9.894+/-0.004 χ^2/NDF : 39782950.3/48
 In: 10.274+/-0.007 χ^2/NDF : 52725871.0/44
 Out: 10.167+/-0.006 χ^2/NDF : 58182724.1/51
 All: 10.217+/-0.004 χ^2/NDF : 110908738.7/96

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.703 ± 0.485 $\chi^2/\text{NDF}: 28.2/22$

Left Out: -0.774 ± 0.164 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.762 ± 0.502 $\chi^2/\text{NDF}: 21.2/27$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

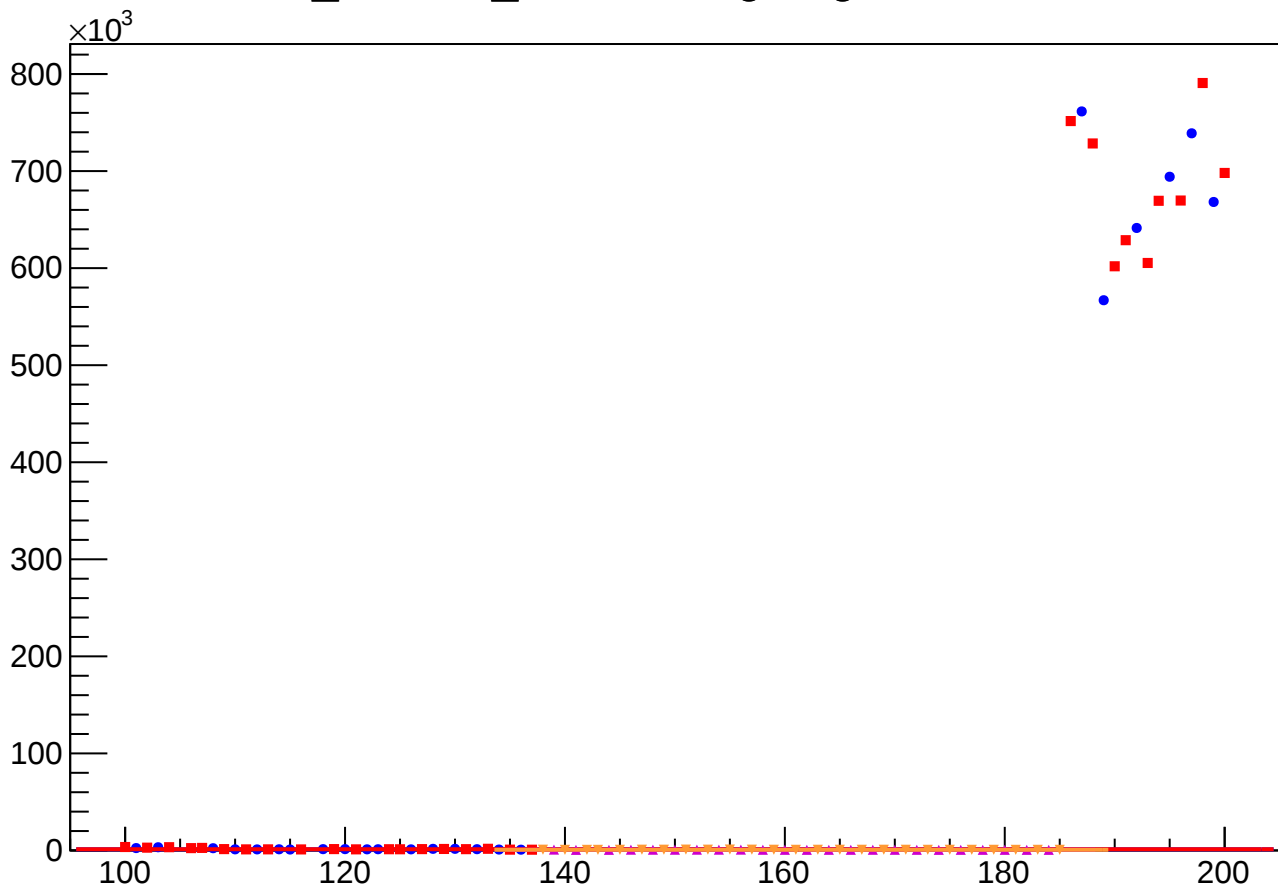
Right: 0.004 ± 0.349 $\chi^2/\text{NDF}: 53.9/50$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 59.4/45$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 88.1/52$

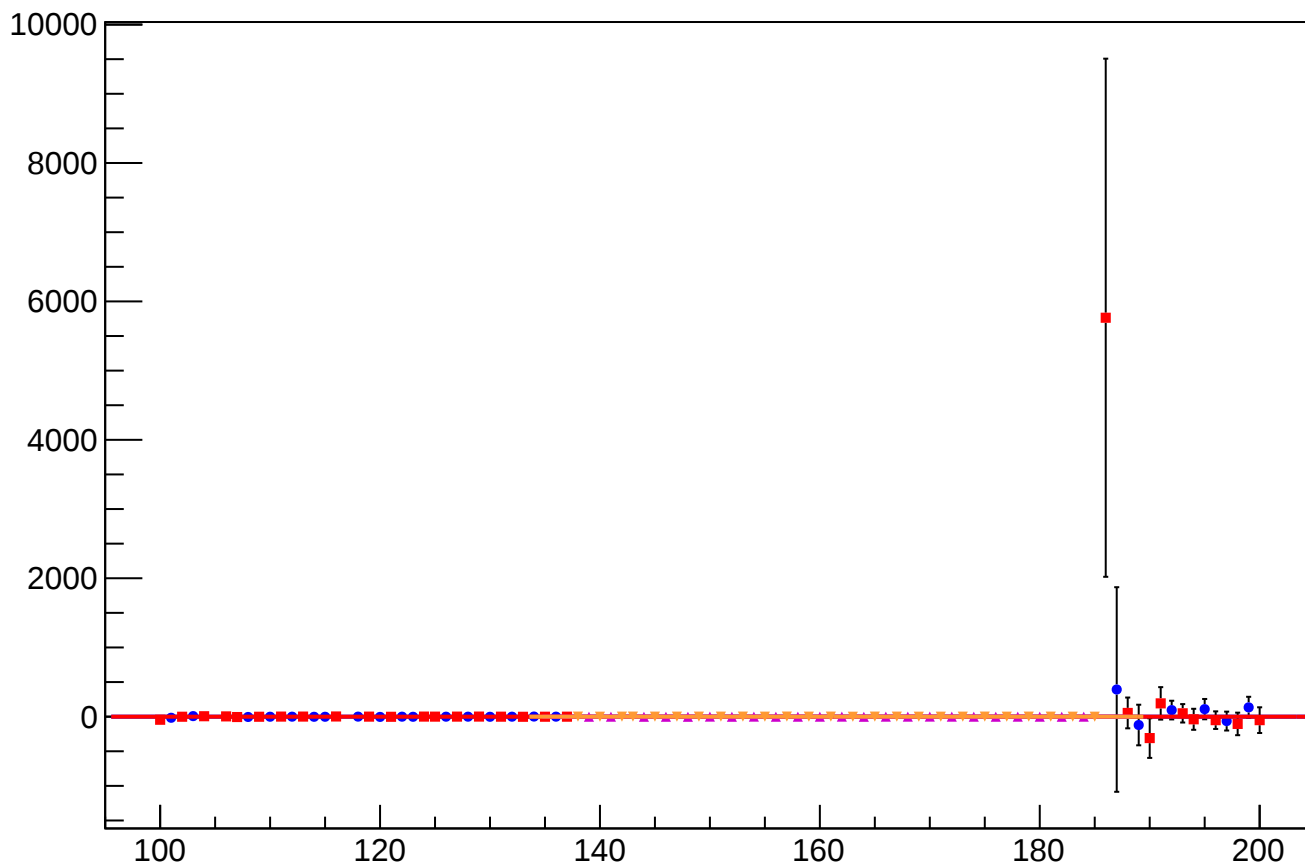
All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 153.9/98$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1165.576+/-0.343	χ^2/NDF : 9347478.2/22	Left: 703.766+/-0.084	χ^2/NDF : 732052.1/47
Left Out: 700.797+/-0.116	χ^2/NDF : 392521.4/24	Right: 1206.997+/-0.247	χ^2/NDF : 22491803.0/50
Right Out: 1251.386+/-0.355	χ^2/NDF : 13114105.9/27	In: 757.194+/-0.114	χ^2/NDF : 11278046.5/45
Left In: 706.950+/-0.120	χ^2/NDF : 338177.1/22	Out: 754.052+/-0.110	χ^2/NDF : 15679016.1/52
		All: 755.579+/-0.079	χ^2/NDF : 26957456.1/98

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.059 ± 0.271 χ^2/NDF : 23.2/22

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.245 ± 0.265 χ^2/NDF : 25.8/27

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

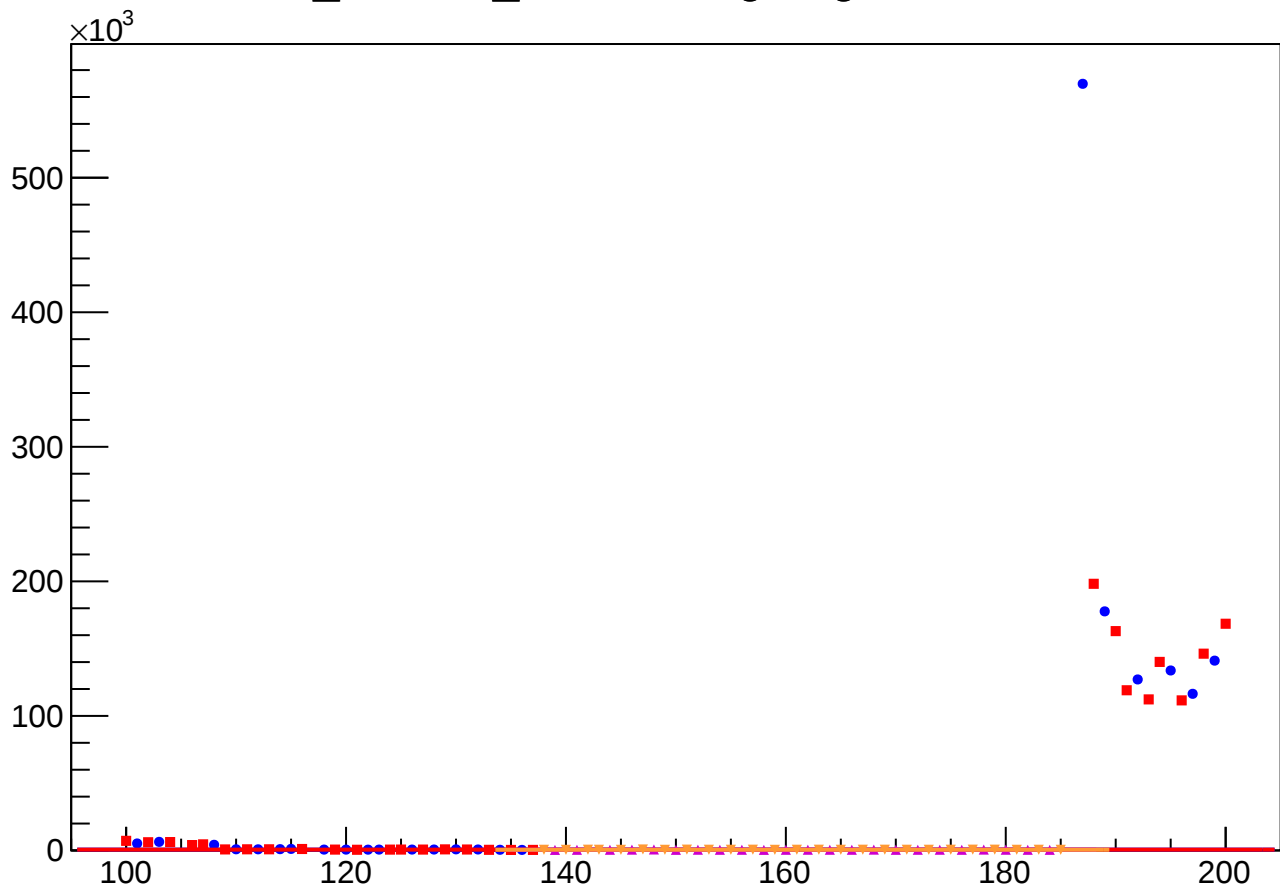
Right: -0.154 ± 0.189 χ^2/NDF : 49.3/50

In: -0.105 ± 0.114 χ^2/NDF : 58.2/45

Out: 0.151 ± 0.111 χ^2/NDF : 46.1/52

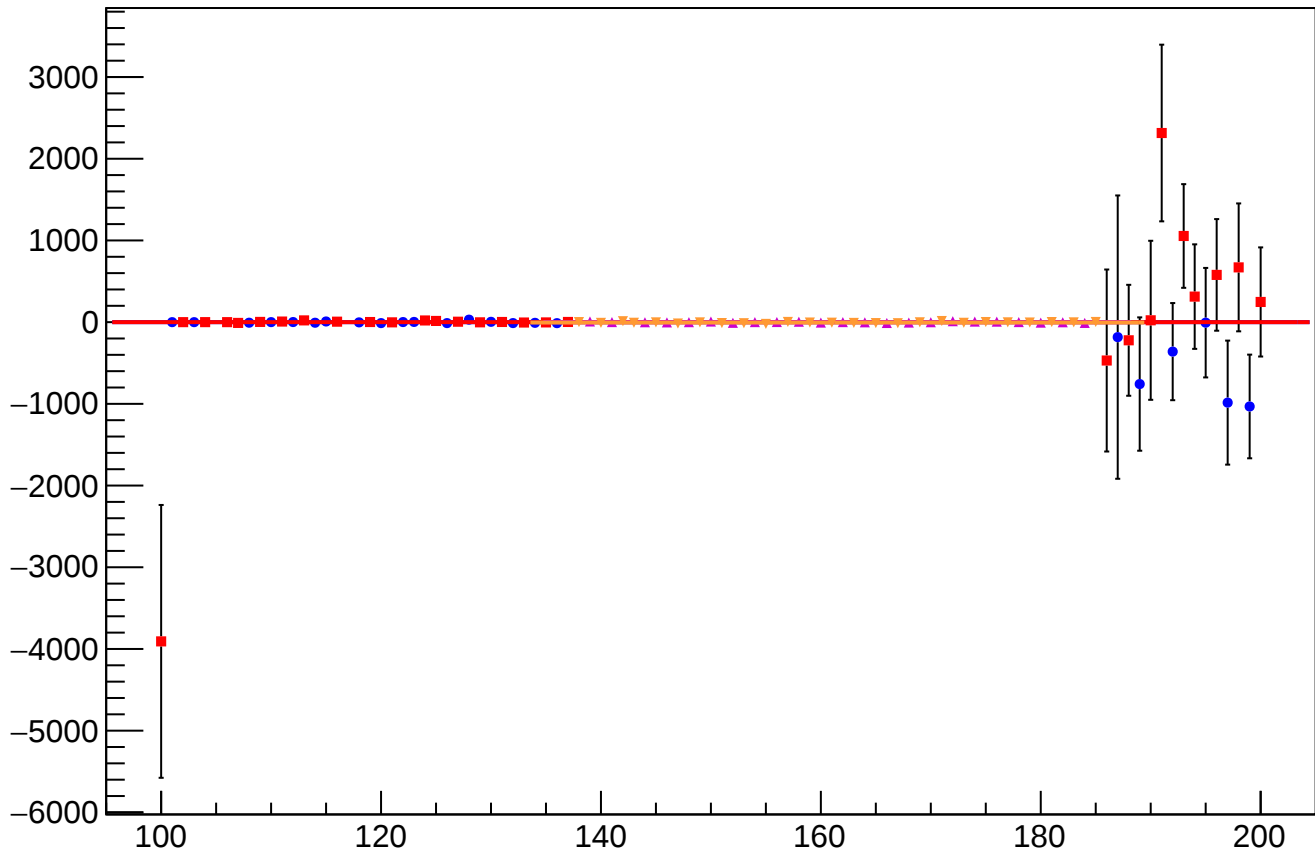
All: 0.026 ± 0.080 χ^2/NDF : 106.9/98

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 610.616 $\pm$ 0.191	χ^2/NDF : 10696289.1/22	Left: 521.193 $\pm$ 0.062	χ^2/NDF : 776728.3/47
Left Out: 522.416 $\pm$ 0.087	χ^2/NDF : 331573.1/24	Right: 606.400 $\pm$ 0.134	χ^2/NDF : 24834098.8/49
Right Out: 602.361 $\pm$ 0.187	χ^2/NDF : 14136859.1/26	In: 535.968 $\pm$ 0.081	χ^2/NDF : 11326024.1/45
Left In: 519.909 $\pm$ 0.089	χ^2/NDF : 444746.3/22	Out: 536.502 $\pm$ 0.079	χ^2/NDF : 14618557.7/51
		All: 536.241 $\pm$ 0.056	χ^2/NDF : 25944604.3/97

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022+/-0.021 χ^2/NDF : 21.2/22

Left Out: -4.474+/-0.956 χ^2/NDF : 58.2/24

Right Out: 0.027+/-0.020 χ^2/NDF : 26.3/27

Left In: 0.193+/-0.990 χ^2/NDF : 29.2/22

Left: -2.224+/-0.688 χ^2/NDF : 99.0/47

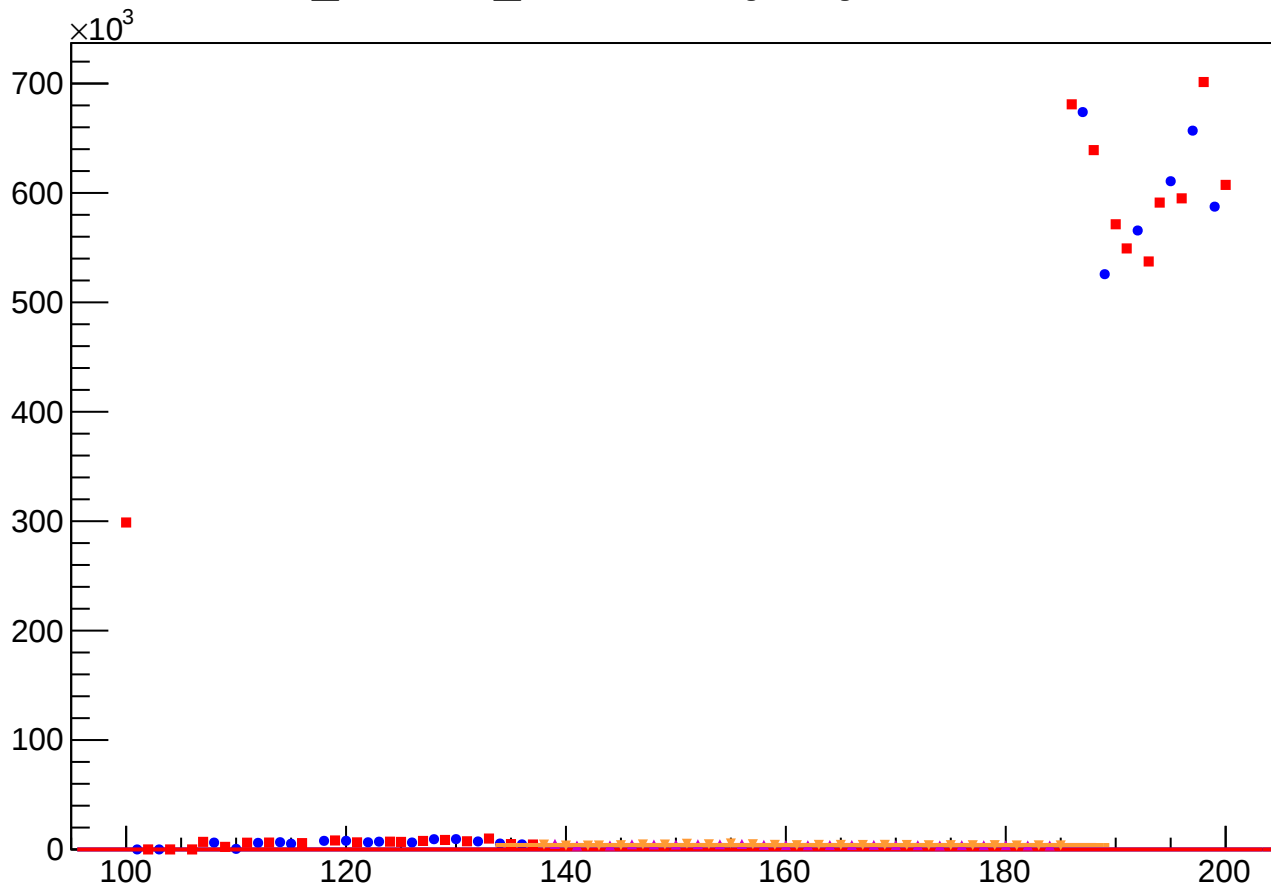
Right: 0.004+/-0.014 χ^2/NDF : 50.3/50

In: -0.022+/-0.021 χ^2/NDF : 50.5/45

Out: 0.025+/-0.020 χ^2/NDF : 106.7/52

All: 0.003+/-0.014 χ^2/NDF : 159.8/98

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.338 $\pm$ 0.015 χ^2/NDF : 18133075.5/22

Left Out: 4074.257 $\pm$ 0.676 χ^2/NDF : 416916.0/24

Right Out: 17.271 $\pm$ 0.014 χ^2/NDF : 22383422.3/27

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

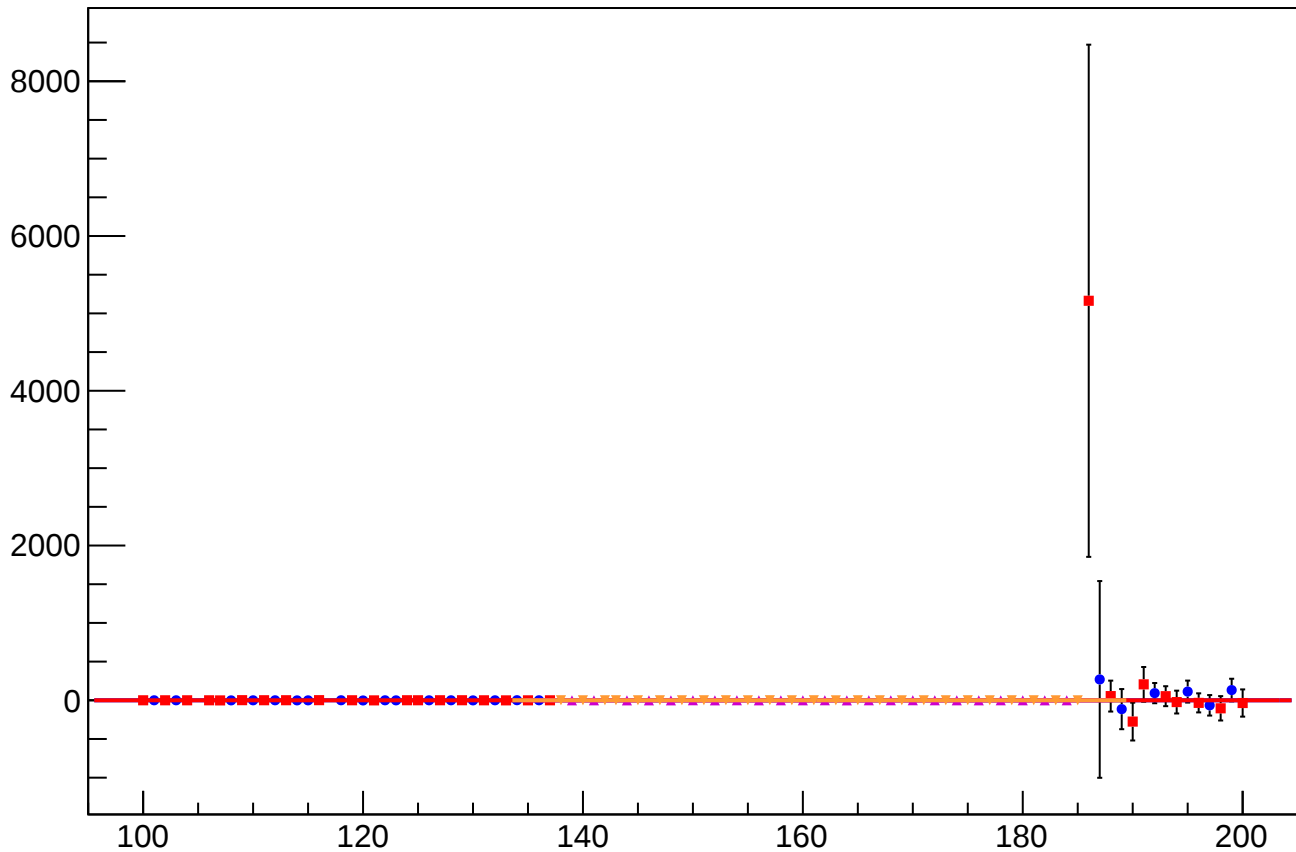
Right: 17.303 $\pm$ 0.010 χ^2/NDF : 40516508.9/50

In: 19.144 $\pm$ 0.015 χ^2/NDF : 52702276.4/45

Out: 19.008 $\pm$ 0.014 χ^2/NDF : 58836351.5/52

All: 19.072 $\pm$ 0.010 χ^2/NDF : 111538673.1/98

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 17.8/22

Left Out: 0.151 ± 0.076 χ^2/NDF : 16.8/24

Right Out: -0.001 ± 0.002 χ^2/NDF : 23.4/27

Left In: -0.075 ± 0.078 χ^2/NDF : 34.8/22

Left: 0.041 ± 0.055 χ^2/NDF : 55.8/47

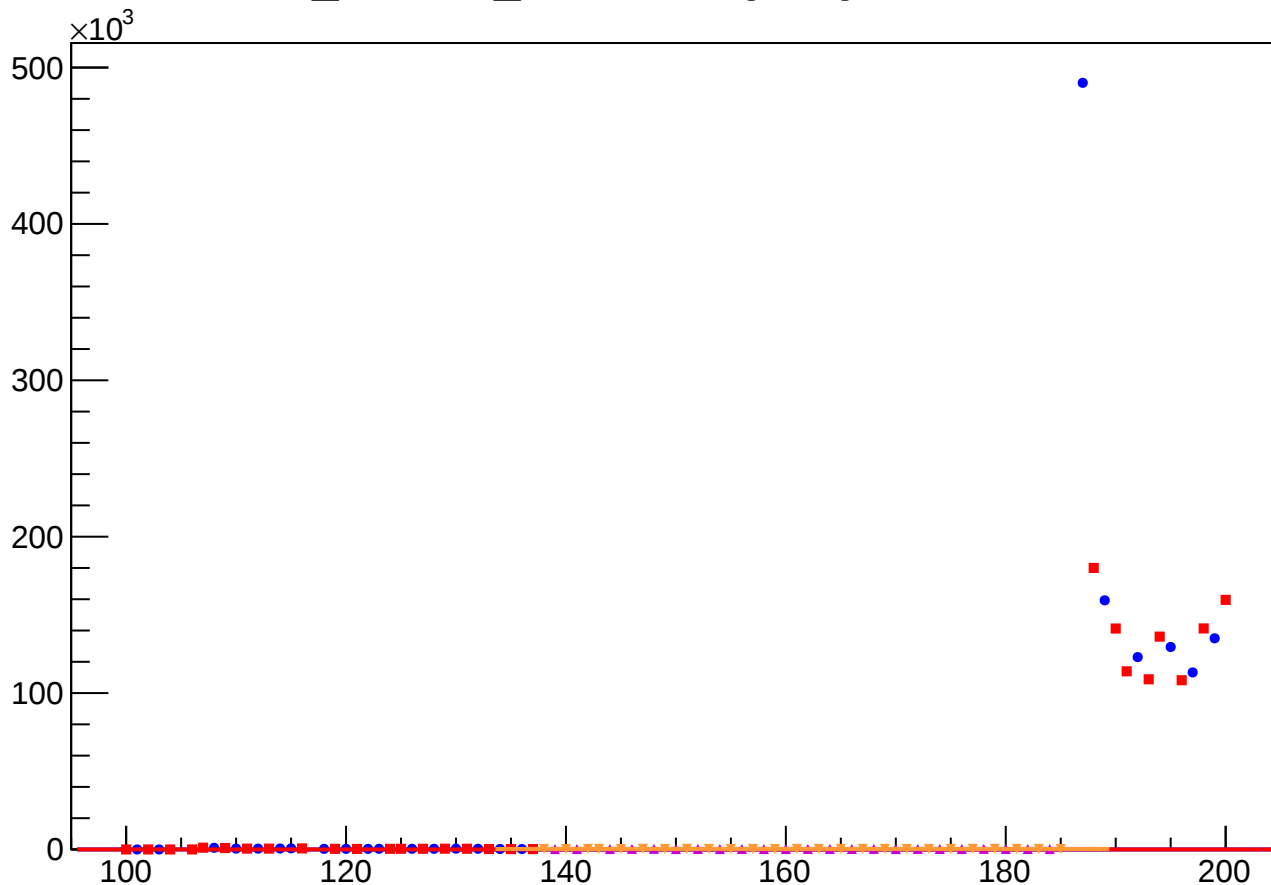
Right: -0.000 ± 0.001 χ^2/NDF : 41.3/50

In: 0.000 ± 0.002 χ^2/NDF : 53.5/45

Out: -0.001 ± 0.002 χ^2/NDF : 44.2/52

All: -0.000 ± 0.001 χ^2/NDF : 97.8/98

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2/NDF : 18518258.0/22

Left Out: 325.469 $\pm$ 0.054 χ^2/NDF : 350046.8/24

Right Out: 1.728 $\pm$ 0.001 χ^2/NDF : 21428202.3/26

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

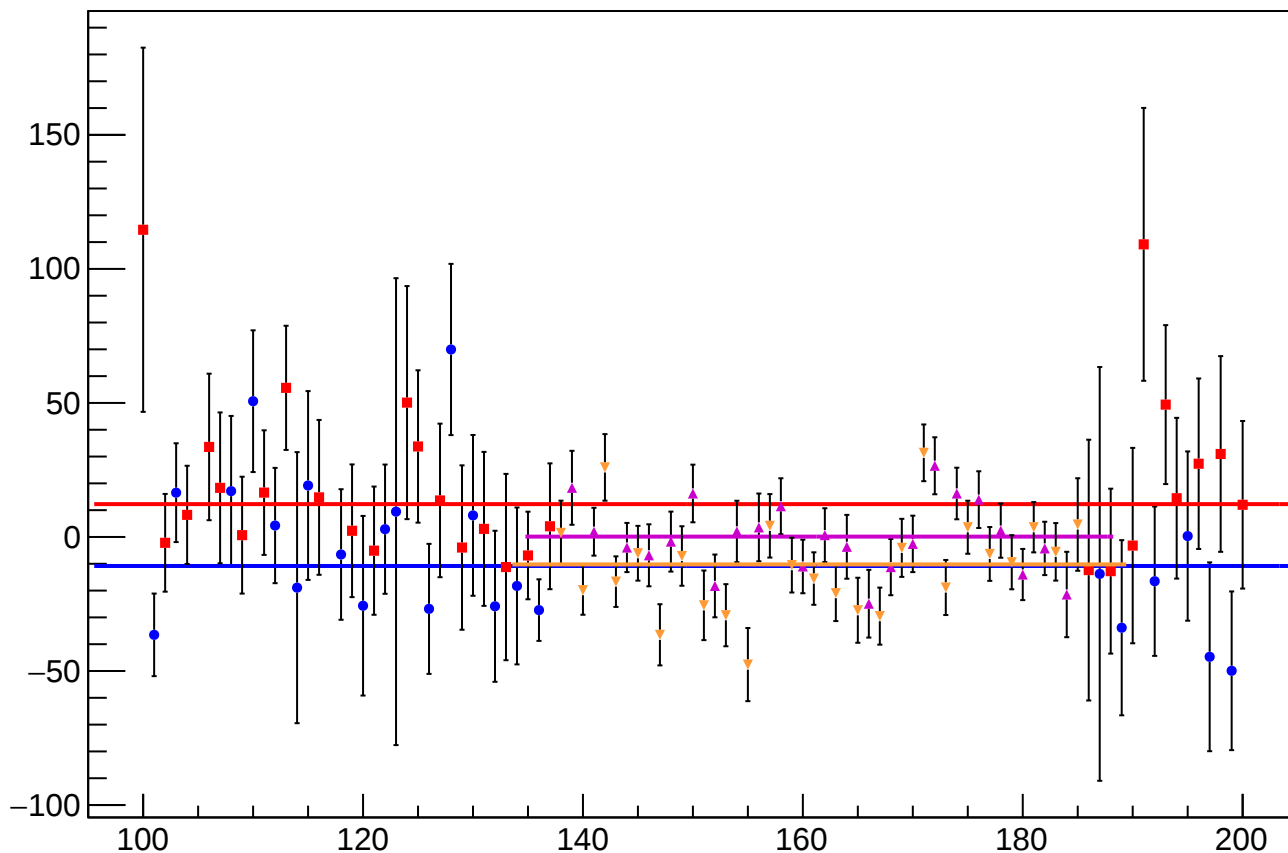
Right: 1.714 $\pm$ 0.001 χ^2/NDF : 39946687.7/49

In: 1.914 $\pm$ 0.001 χ^2/NDF : 52921698.8/45

Out: 1.937 $\pm$ 0.001 χ^2/NDF : 57736022.8/51

All: 1.926 $\pm$ 0.001 χ^2/NDF : 110657859.8/97

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -10.819 $\pm$ 5.213 χ^2/NDF : 26.2/22

Left Out: -10.235 $\pm$ 2.167 χ^2/NDF : 58.0/24

Right Out: 12.253 $\pm$ 5.097 χ^2/NDF : 18.6/27

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

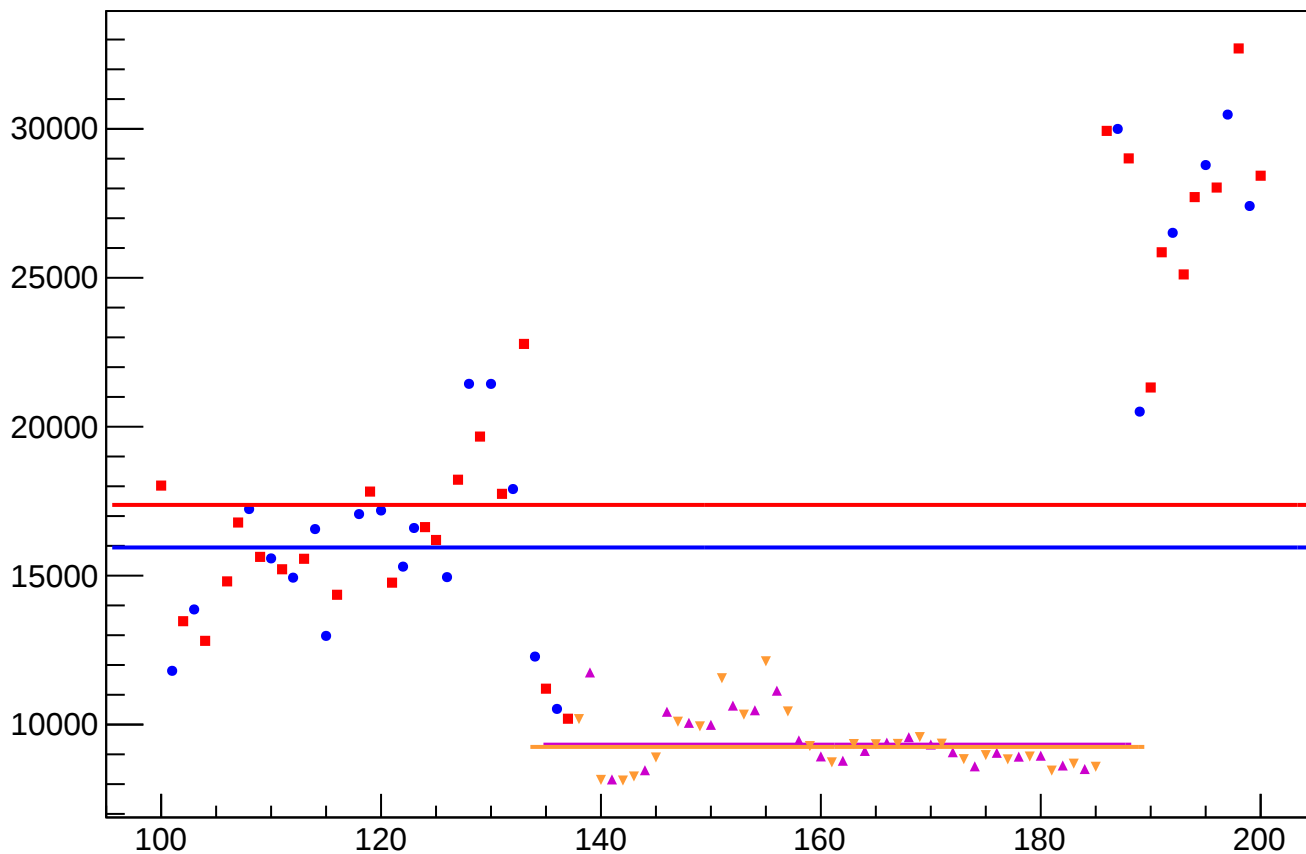
Right: 0.977 $\pm$ 3.644 χ^2/NDF : 54.8/50

In: -1.579 $\pm$ 2.060 χ^2/NDF : 59.8/45

Out: -6.793 $\pm$ 1.994 χ^2/NDF : 93.0/52

All: -4.271 $\pm$ 1.433 χ^2/NDF : 156.1/98

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 15945.873+/-3.686 χ^2/NDF : 2182493.6/22

Left Out: 9249.358+/-1.532 χ^2/NDF :332003.4/24

Right Out: 17374.634+/-3.604 χ^2/NDF : 2560761.2/27

Left In: 9325.112+/-1.585 χ^2/NDF :280927.7/22

Left: 9285.937+/-1.102 χ^2/NDF : 614111.7/47

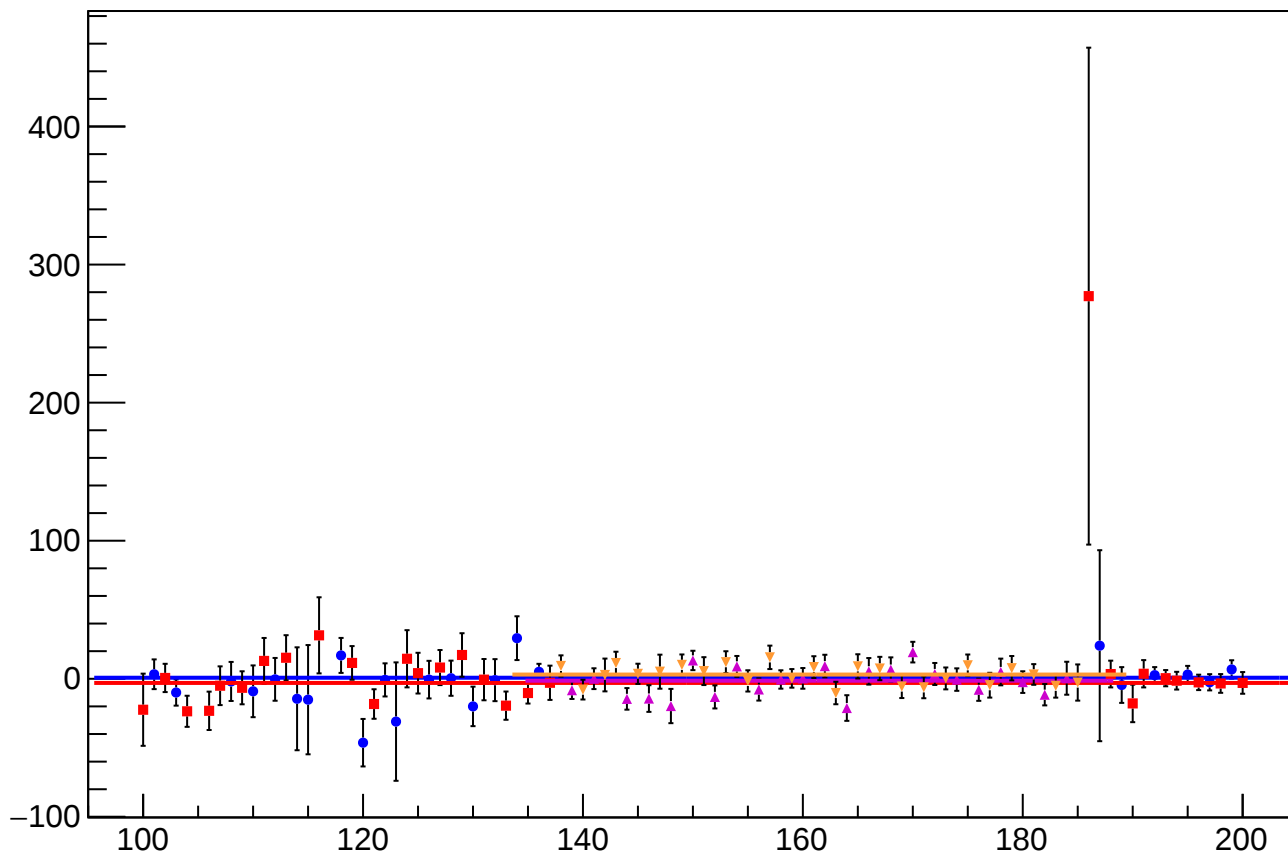
Right: 16676.353+/-2.577 χ^2/NDF : 4820060.5/50

In: 10358.685+/-1.456 χ^2/NDF :5185665.5/45

Out: 10492.865+/-1.410 χ^2/NDF :7197453.7/52

All: 10427.952+/-1.013 χ^2/NDF : 12387500.6

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.763 ± 2.145 $\chi^2/\text{NDF}: 19.2/22$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -3.003 ± 1.943 $\chi^2/\text{NDF}: 25.2/27$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

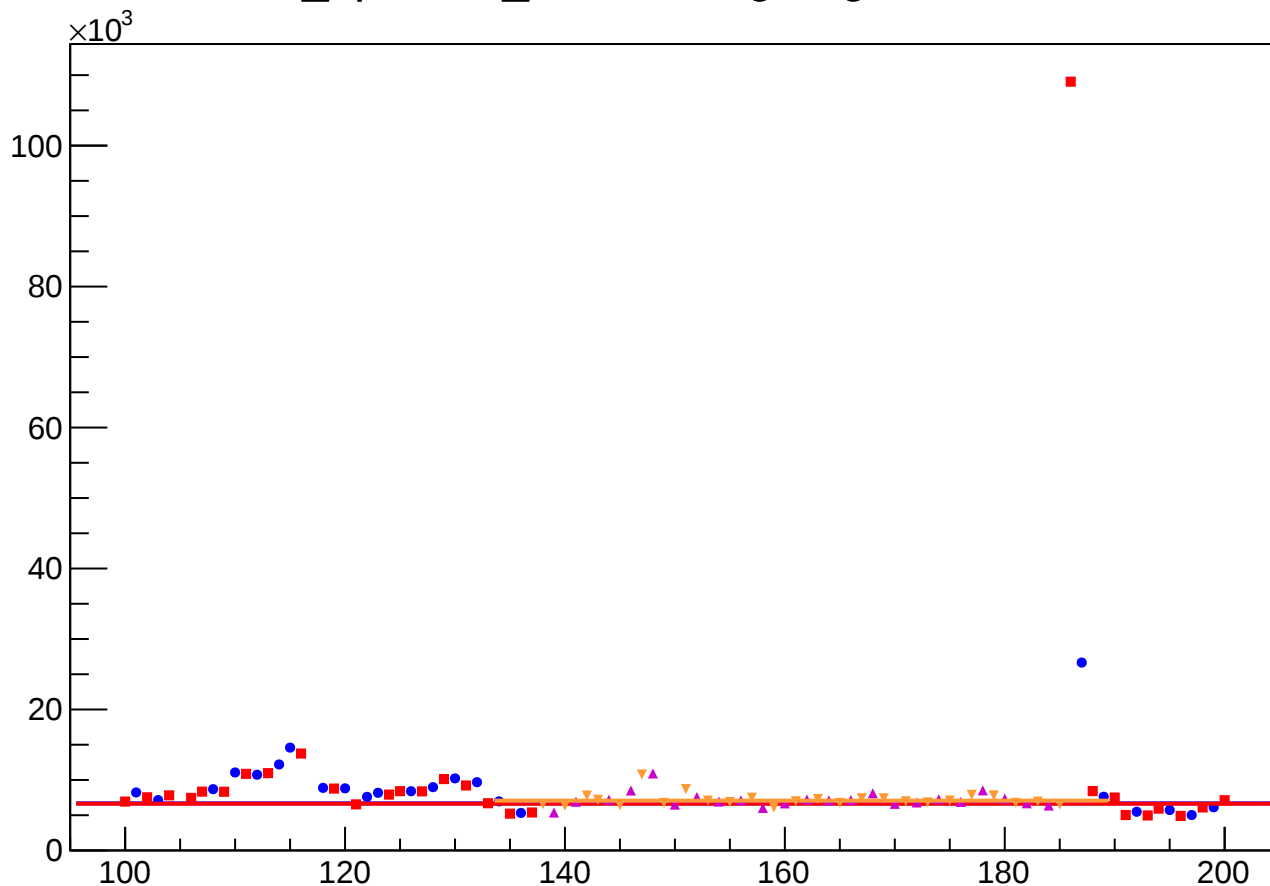
Right: -1.305 ± 1.440 $\chi^2/\text{NDF}: 46.2/50$

In: -0.566 ± 1.329 $\chi^2/\text{NDF}: 55.2/45$

Out: 0.505 ± 1.262 $\chi^2/\text{NDF}: 49.1/52$

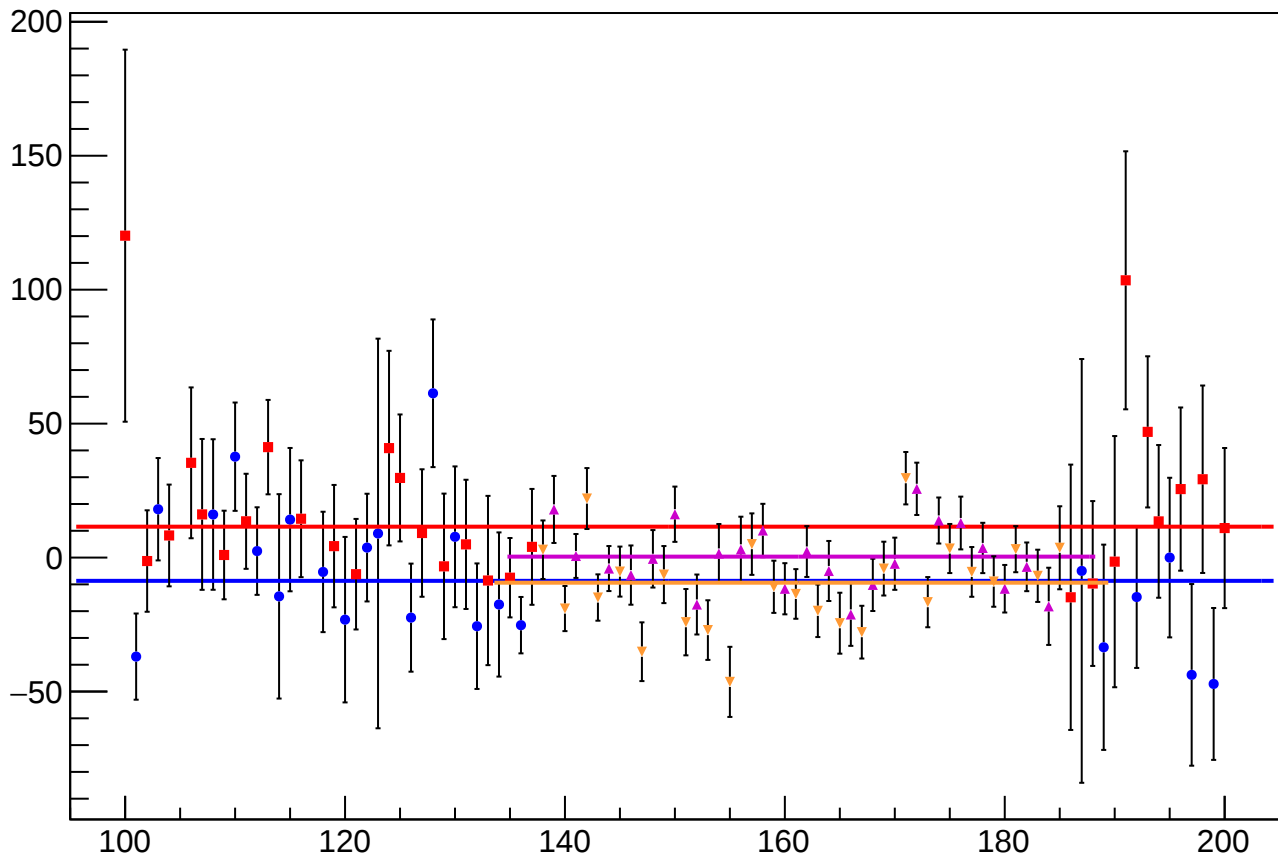
All: -0.003 ± 0.915 $\chi^2/\text{NDF}: 104.7/98$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6680.264 $\pm$ 1.517	χ^2/NDF : 1450474.9/22	Left: 7034.358 $\pm$ 0.838	χ^2/NDF : 939043.5/47
Left Out: 7066.826 $\pm$ 1.173	χ^2/NDF : 387449.8/24	Right: 6653.962 $\pm$ 1.018	χ^2/NDF : 3531784.1/50
Right Out: 6632.373 $\pm$ 1.374	χ^2/NDF : 2080761.6/27	In: 6877.579 $\pm$ 0.940	χ^2/NDF : 2027975.2/45
Left In: 7000.532 $\pm$ 1.197	χ^2/NDF : 550029.3/22	Out: 6883.694 $\pm$ 0.892	χ^2/NDF : 2526038.1/52
		All: 6880.795 $\pm$ 0.647	χ^2/NDF : 4554035.5/98

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -8.684 $\pm$ 4.725 χ^2/NDF : 26.9/22

Left Out: -9.376 $\pm$ 2.018 χ^2/NDF : 58.4/24

Right Out: 11.536 $\pm$ 4.581 χ^2/NDF : 18.1/27

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

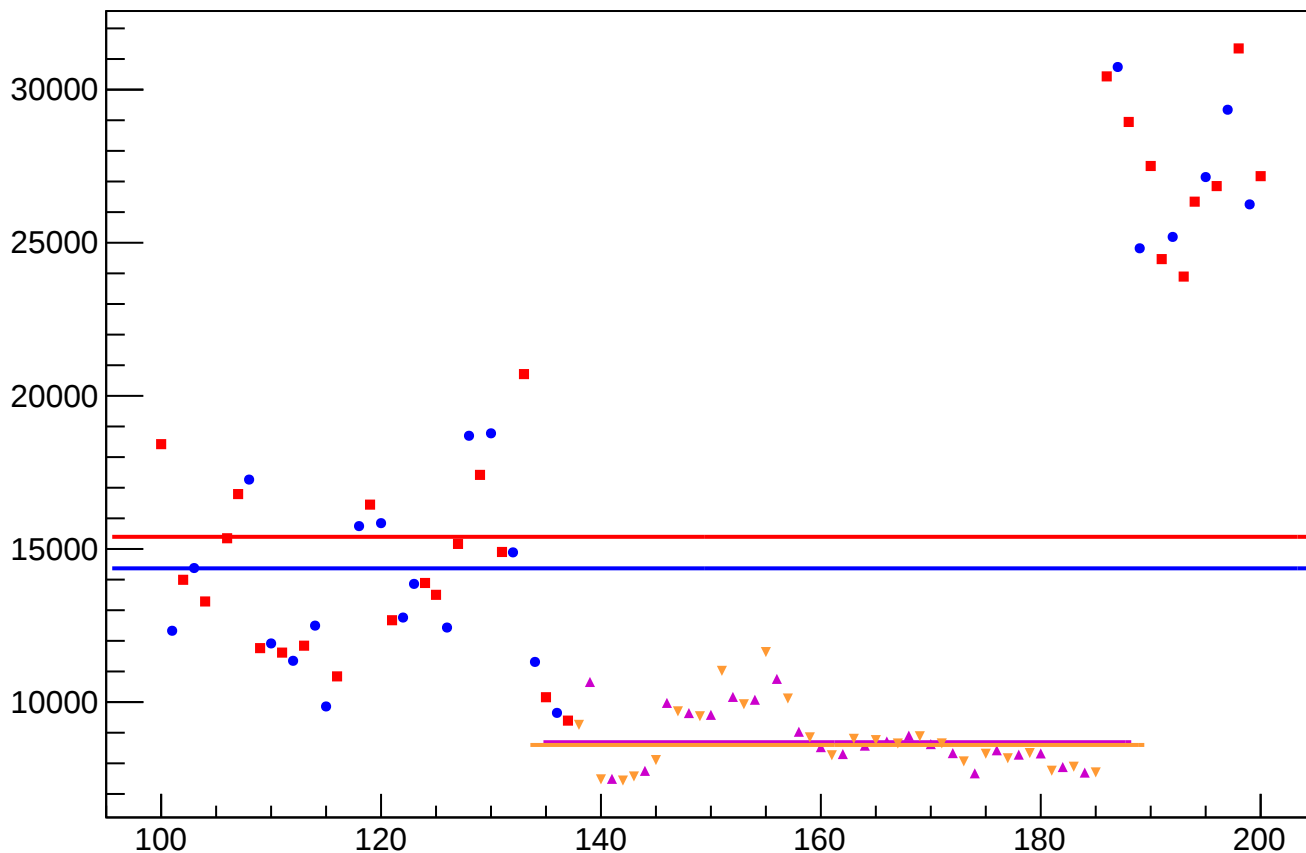
Right: 1.738 $\pm$ 3.289 χ^2/NDF : 54.4/50

In: -1.128 $\pm$ 1.913 χ^2/NDF : 59.6/45

Out: -5.979 $\pm$ 1.847 χ^2/NDF : 94.0/52

All: -3.639 $\pm$ 1.329 χ^2/NDF : 156.9/98

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 14367.637 $\pm$ 3.341 χ^2 /NDF: 2469159.2/22

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF: 438229.4/24

Right Out: 15397.137 $\pm$ 3.239 χ^2 /NDF: 3190598.0/27

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

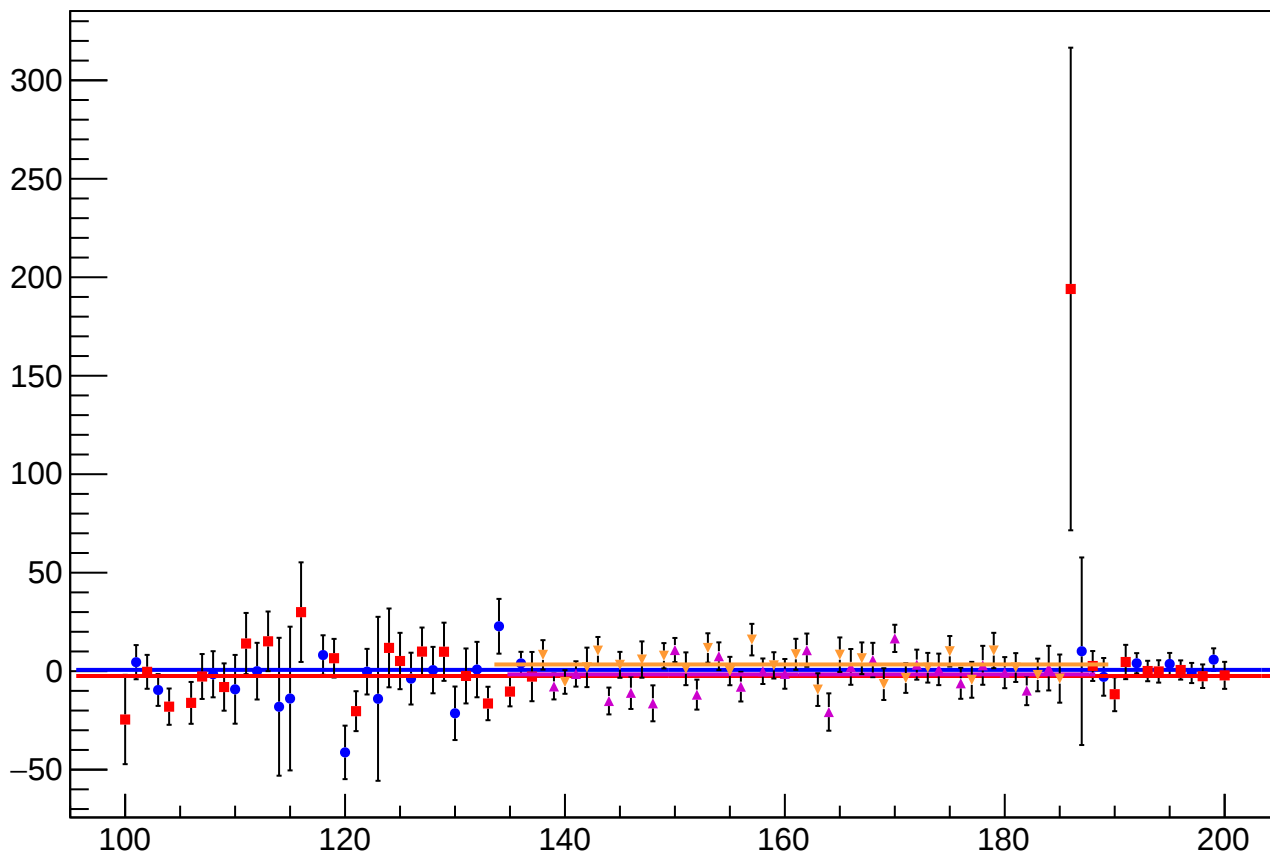
Right: 14898.254 $\pm$ 2.326 χ^2 /NDF: 5708698.5/50

In: 9620.976 $\pm$ 1.353 χ^2 /NDF: 5254388.5/45

Out: 9704.676 $\pm$ 1.306 χ^2 /NDF: 7315602.3/52

All: 9664.306 $\pm$ 0.939 χ^2 /NDF: 12571972.7/99

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.651 ± 1.903 χ^2/NDF : 20.2/22

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -2.450 ± 1.700 χ^2/NDF : 25.8/27

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

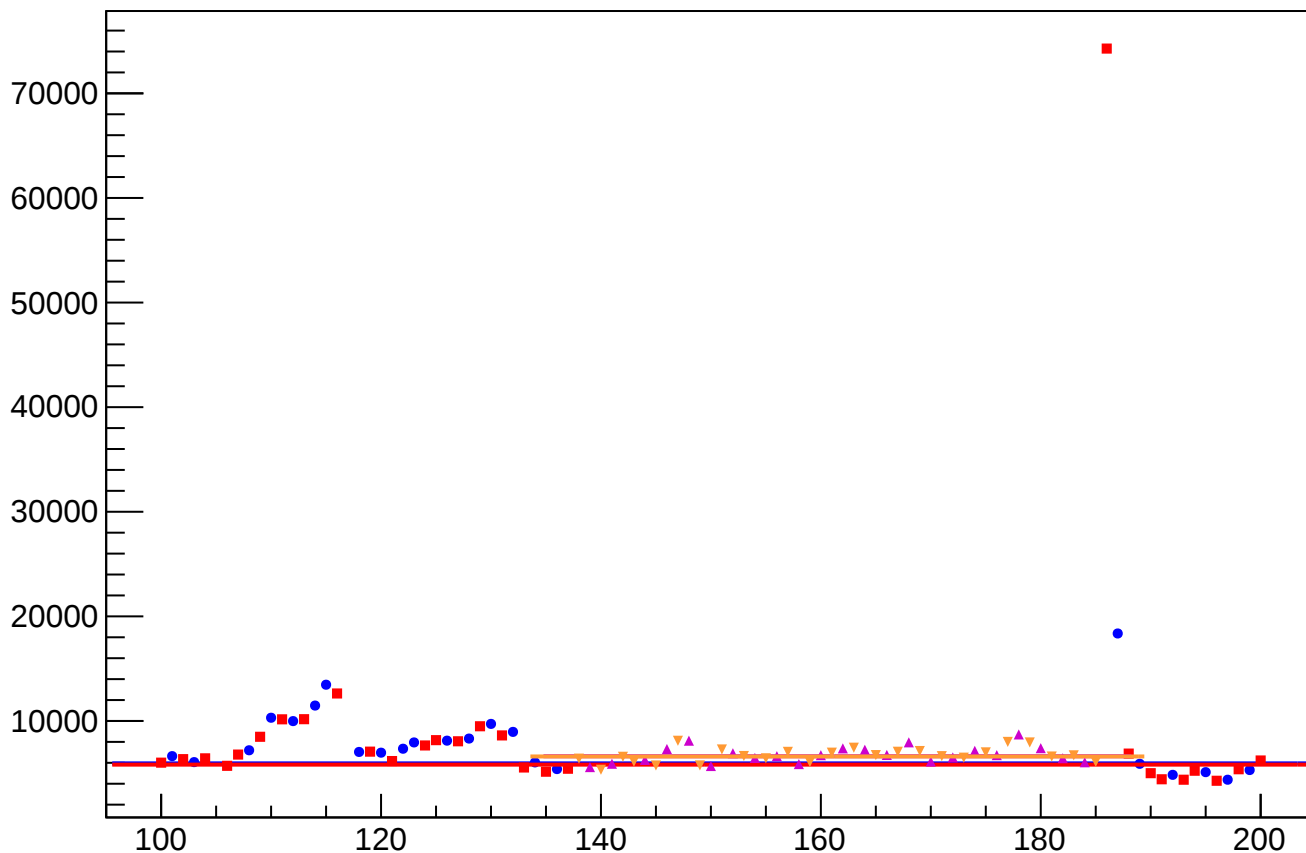
Right: -1.074 ± 1.268 χ^2/NDF : 47.5/50

In: -0.684 ± 1.224 χ^2/NDF : 54.5/45

Out: 0.746 ± 1.145 χ^2/NDF : 49.1/52

All: 0.079 ± 0.836 χ^2/NDF : 104.3/98

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5946.427+/-1.346

χ^2/NDF : 1404110.4/22

Left: 6617.543+/-0.787

χ^2/NDF : 828885.6/47

Left Out: 6607.100+/-1.096

χ^2/NDF : 398416.1/24

Right: 5879.537+/-0.896

χ^2/NDF : 3523541.3/50

Right Out: 5826.181+/-1.202

χ^2/NDF : 2114988.8/27

In: 6346.294+/-0.866

χ^2/NDF : 1985054.9/45

Out: 6252.406+/-0.810

χ^2/NDF : 2743855.9/52

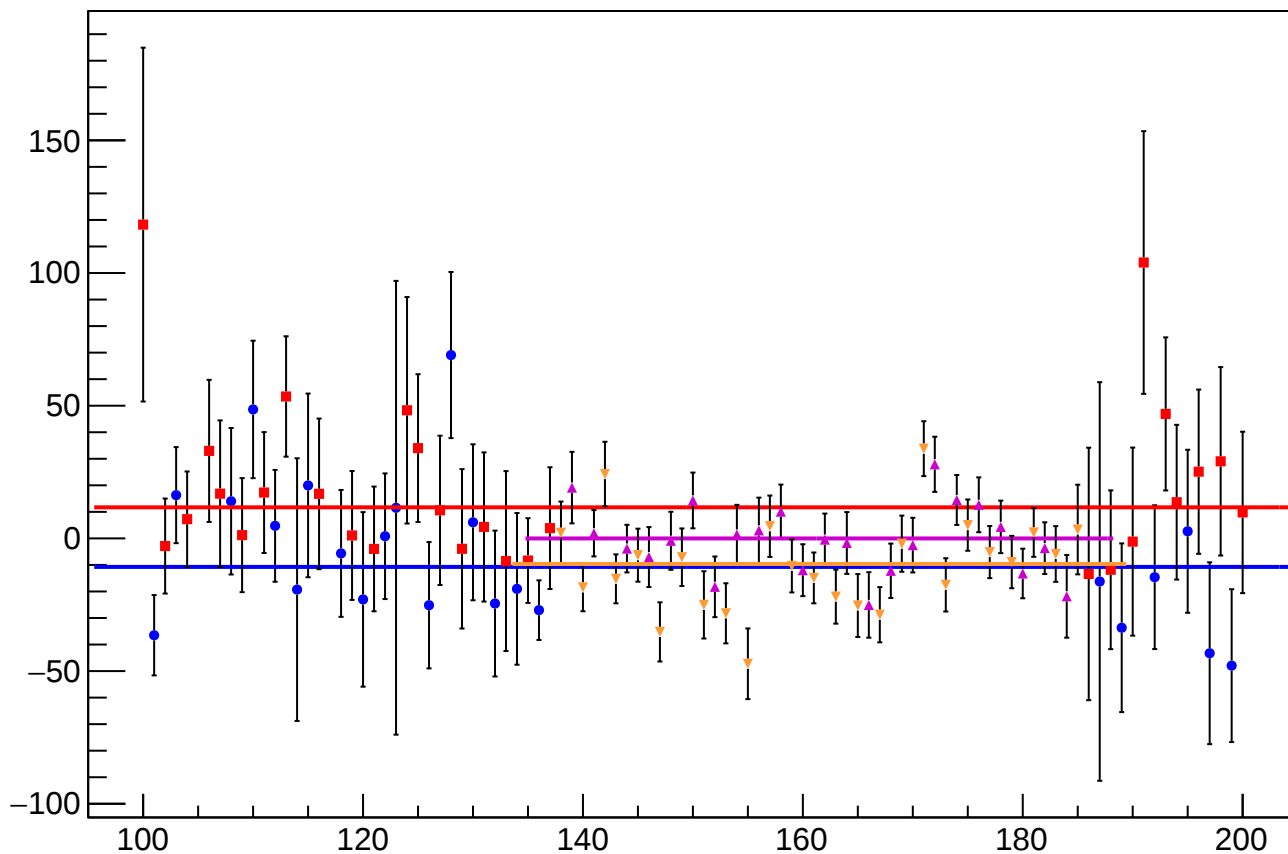
Left In: 6628.653+/-1.131

χ^2/NDF : 430282.2/22

All: 6296.231+/-0.591

χ^2/NDF : 4735182.9/98

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -10.749 $\pm$ 5.104 χ^2/NDF : 26.0/22

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 11.706 $\pm$ 4.989 χ^2/NDF : 18.5/27

Left In: -0.019 $\pm$ 2.192 χ^2/NDF : 30.6/22

Left: -4.999 $\pm$ 1.523 χ^2/NDF : 100.4/47

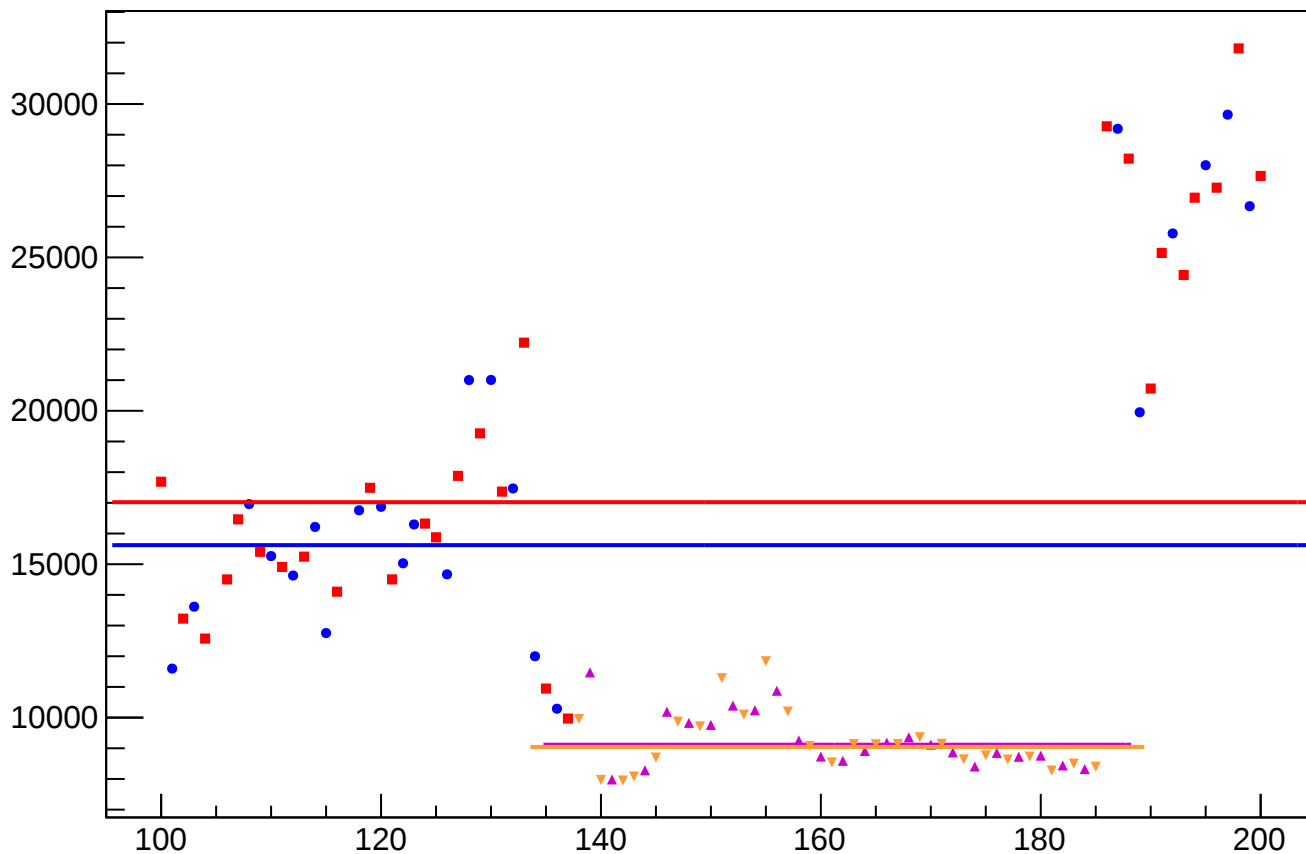
Right: 0.733 $\pm$ 3.568 χ^2/NDF : 54.4/50

In: -1.690 $\pm$ 2.014 χ^2/NDF : 60.3/45

Out: -6.388 $\pm$ 1.950 χ^2/NDF : 93.8/52

All: -4.115 $\pm$ 1.401 χ^2/NDF : 157.0/98

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 15621.748 $\pm$ 3.609 χ^2 /NDF: 2158529.8/22

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF:328192.2/24

Right Out: 17022.122 $\pm$ 3.528 χ^2 /NDF: 2522677.3/27

Left In: 9116.921 $\pm$ 1.550 χ^2 /NDF:277594.8/22

Left: 9078.947 $\pm$ 1.077 χ^2 /NDF: 606947.8/47

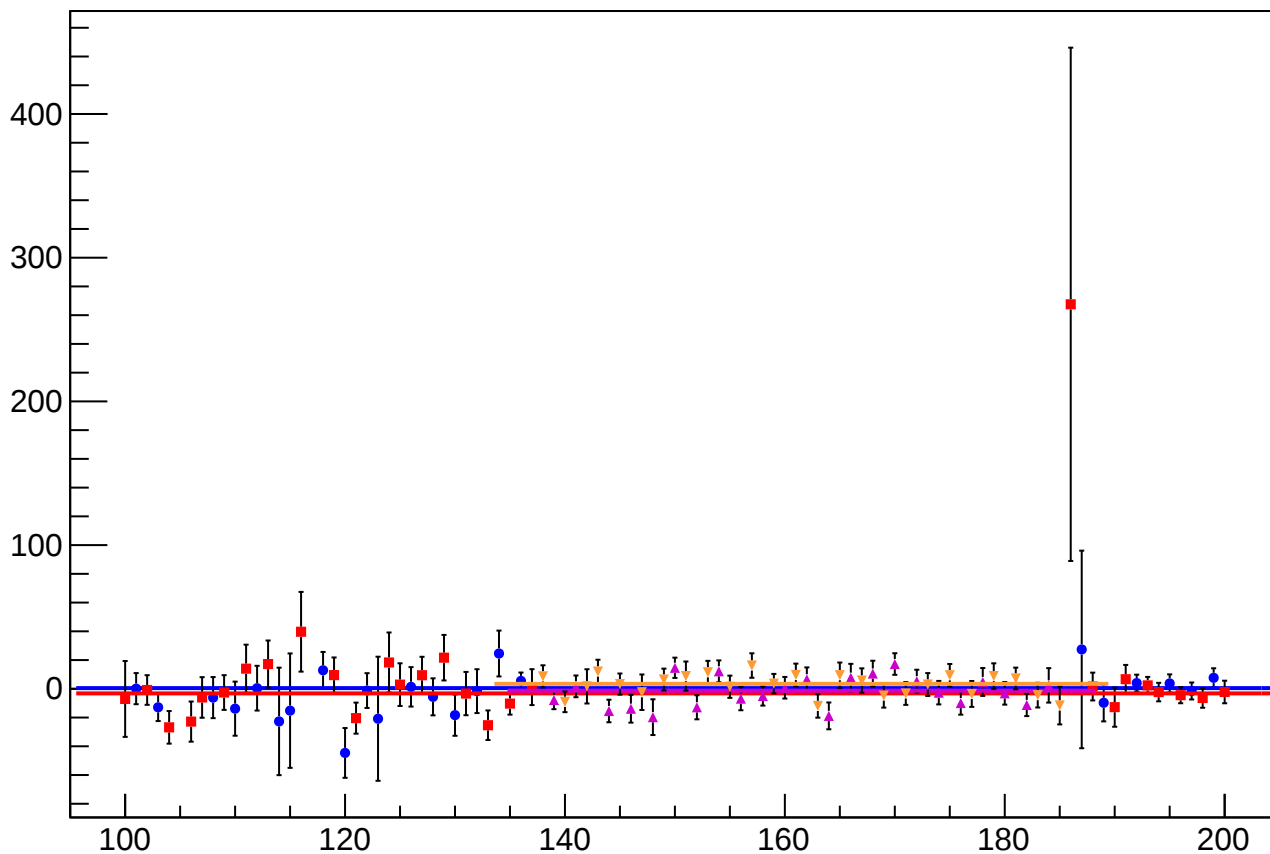
Right: 16337.814 $\pm$ 2.523 χ^2 /NDF: 4758194.0/50

In: 10129.875 $\pm$ 1.424 χ^2 /NDF:5178813.9/45

Out: 10261.907 $\pm$ 1.379 χ^2 /NDF:7184087.2/52

All: 10198.033 $\pm$ 0.991 χ^2 /NDF: 12367337.8/100

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.477 ± 2.155 χ^2/NDF : 18.9/22

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -3.189 ± 1.952 χ^2/NDF : 30.5/27

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

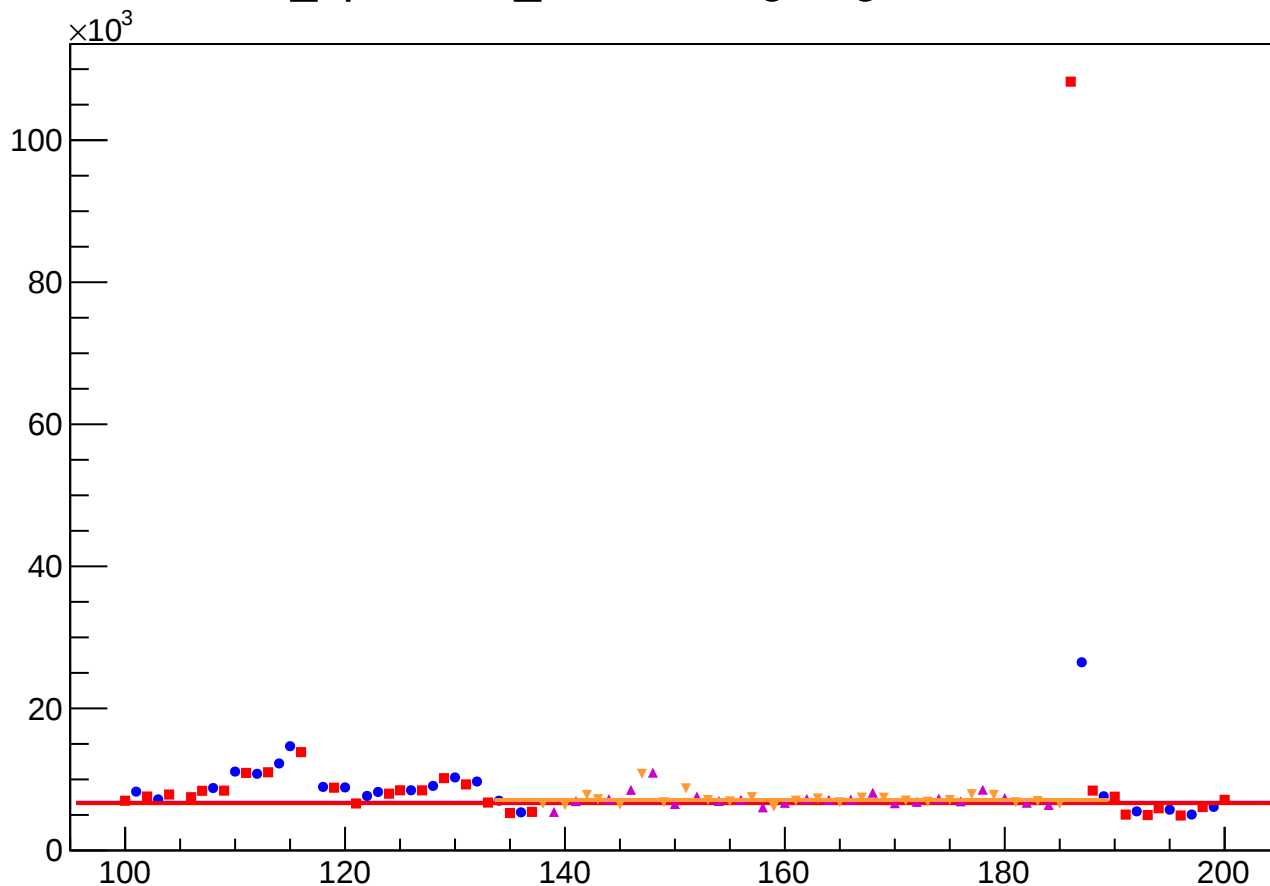
Right: -1.536 ± 1.447 χ^2/NDF : 51.0/50

In: -0.612 ± 1.335 χ^2/NDF : 55.9/45

Out: 0.647 ± 1.267 χ^2/NDF : 56.1/52

All: 0.050 ± 0.919 χ^2/NDF : 112.5/98

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6711.620 ± 1.524 $\chi^2/\text{NDF}: 1457499.7/22$

Left Out: 7098.726 ± 1.178 $\chi^2/\text{NDF}: 382550.4/24$

Right Out: 6664.544 ± 1.381 $\chi^2/\text{NDF}: 2084143.3/27$

Left In: 7033.702 ± 1.203 $\chi^2/\text{NDF}: 541035.5/22$

Left: 7066.886 ± 0.842 $\chi^2/\text{NDF}: 925077.6/47$

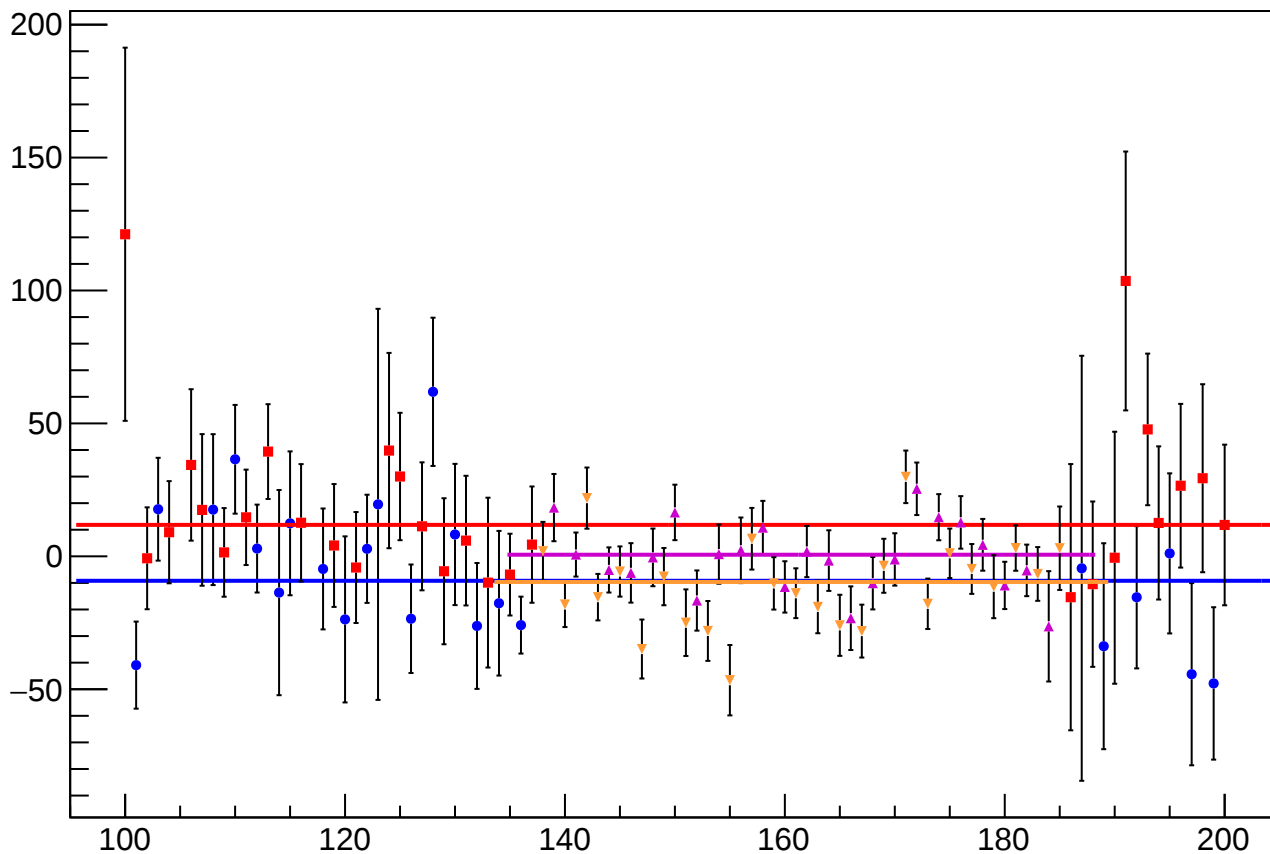
Right: 6685.765 ± 1.023 $\chi^2/\text{NDF}: 3542167.2/50$

In: 6910.079 ± 0.944 $\chi^2/\text{NDF}: 2026061.4/45$

Out: 6915.779 ± 0.896 $\chi^2/\text{NDF}: 2523924.9/52$

All: 6913.077 ± 0.650 $\chi^2/\text{NDF}: 4550005.5/98$

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -9.205 $\pm$ 4.787 χ^2/NDF : 27.4/22

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 11.831 $\pm$ 4.644 χ^2/NDF : 17.2/27

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

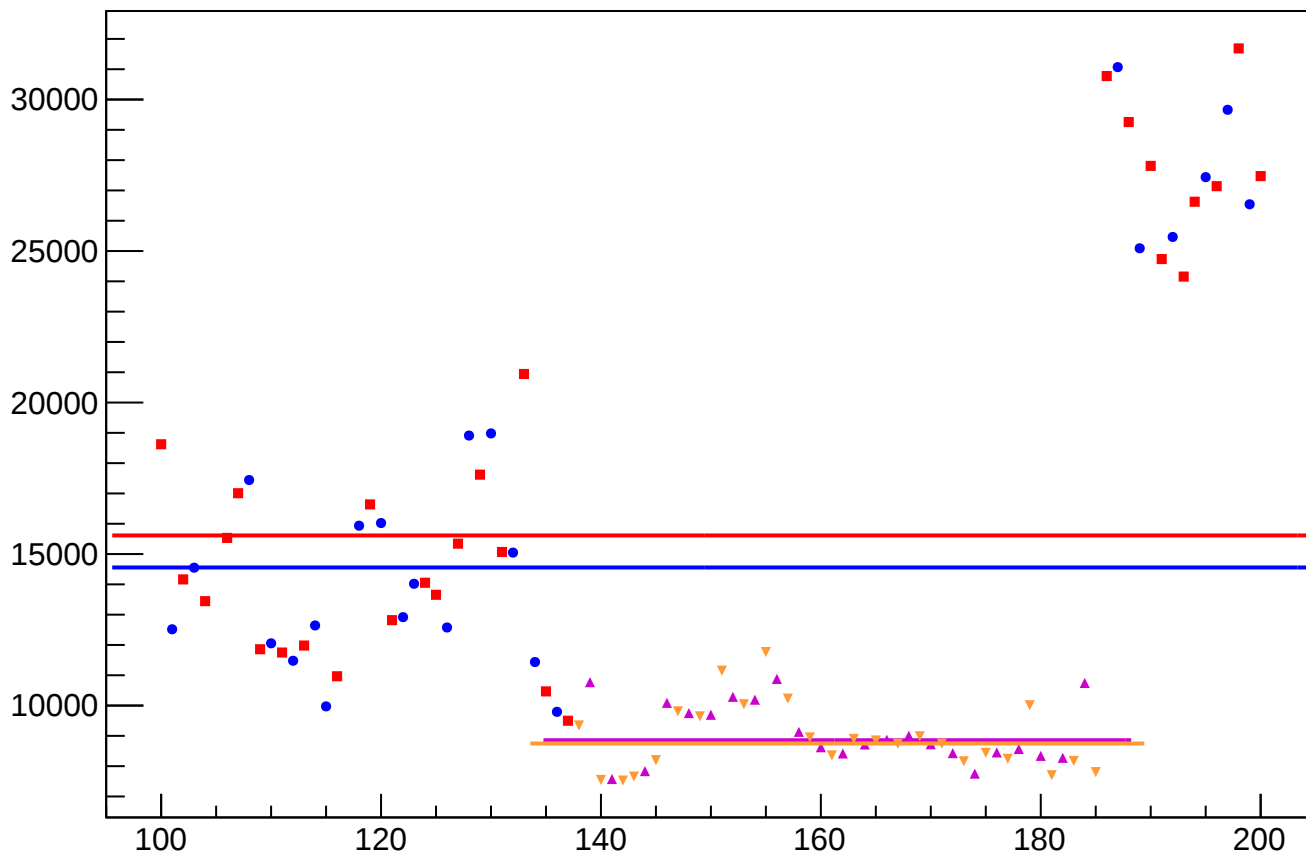
Right: 1.631 $\pm$ 3.333 χ^2/NDF : 54.6/50

In: -1.027 $\pm$ 1.950 χ^2/NDF : 60.6/45

Out: -6.118 $\pm$ 1.881 χ^2/NDF : 92.7/52

All: -3.664 $\pm$ 1.354 χ^2/NDF : 156.8/98

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 14556.964 $\pm$ 3.385 χ^2 /NDF: 2454091.9/22

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF:463394.1/24

Right Out: 15613.975 $\pm$ 3.284 χ^2 /NDF: 3160001.4/27

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

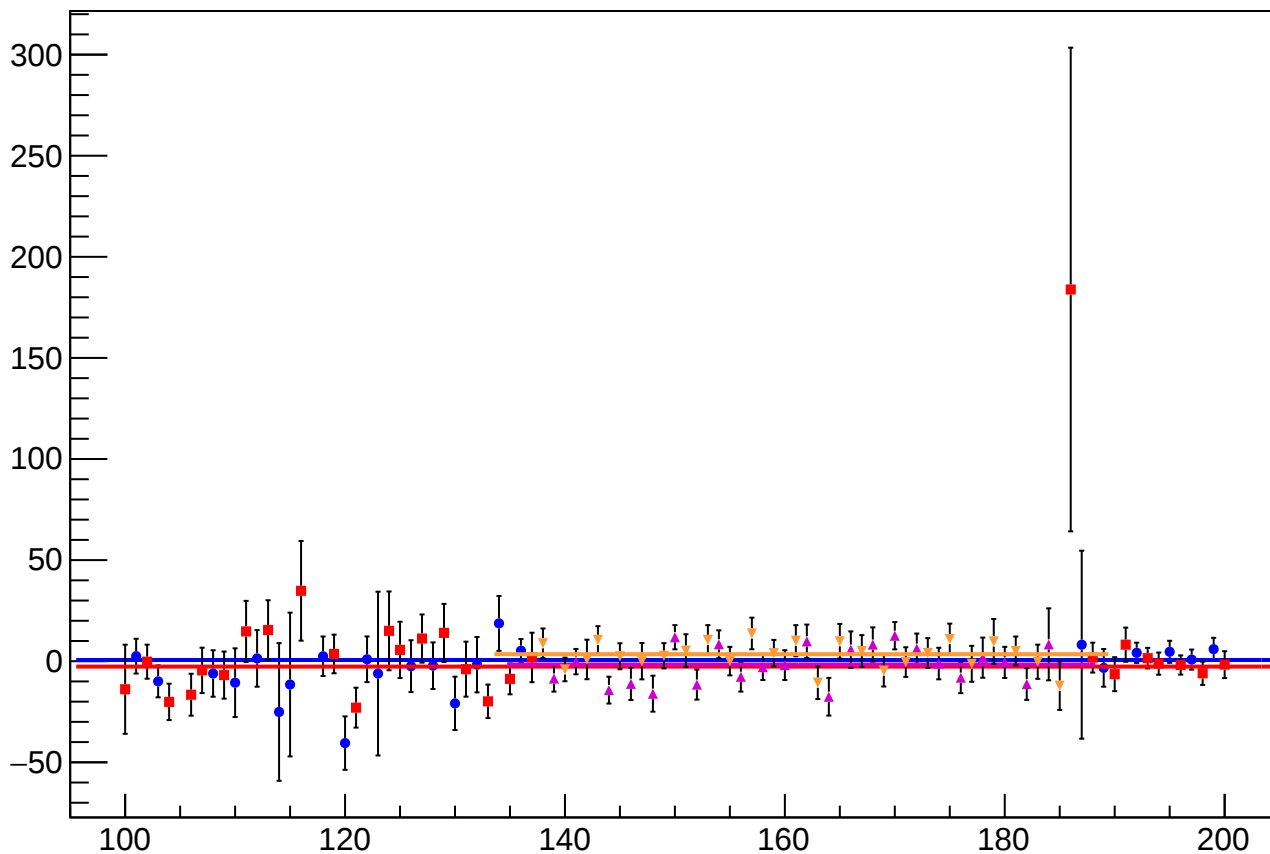
Right: 15101.464 $\pm$ 2.357 χ^2 /NDF: 5664330.2/50

In: 9801.623 $\pm$ 1.379 χ^2 /NDF:5188135.3/45

Out: 9874.691 $\pm$ 1.330 χ^2 /NDF:7277451.2/52

All: 9839.471 $\pm$ 0.957 χ^2 /NDF: 12467041.2/95

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.598 ± 1.856 χ^2/NDF : 20.4/22

Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24

Right Out: -2.670 ± 1.657 χ^2/NDF : 30.6/27

Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47

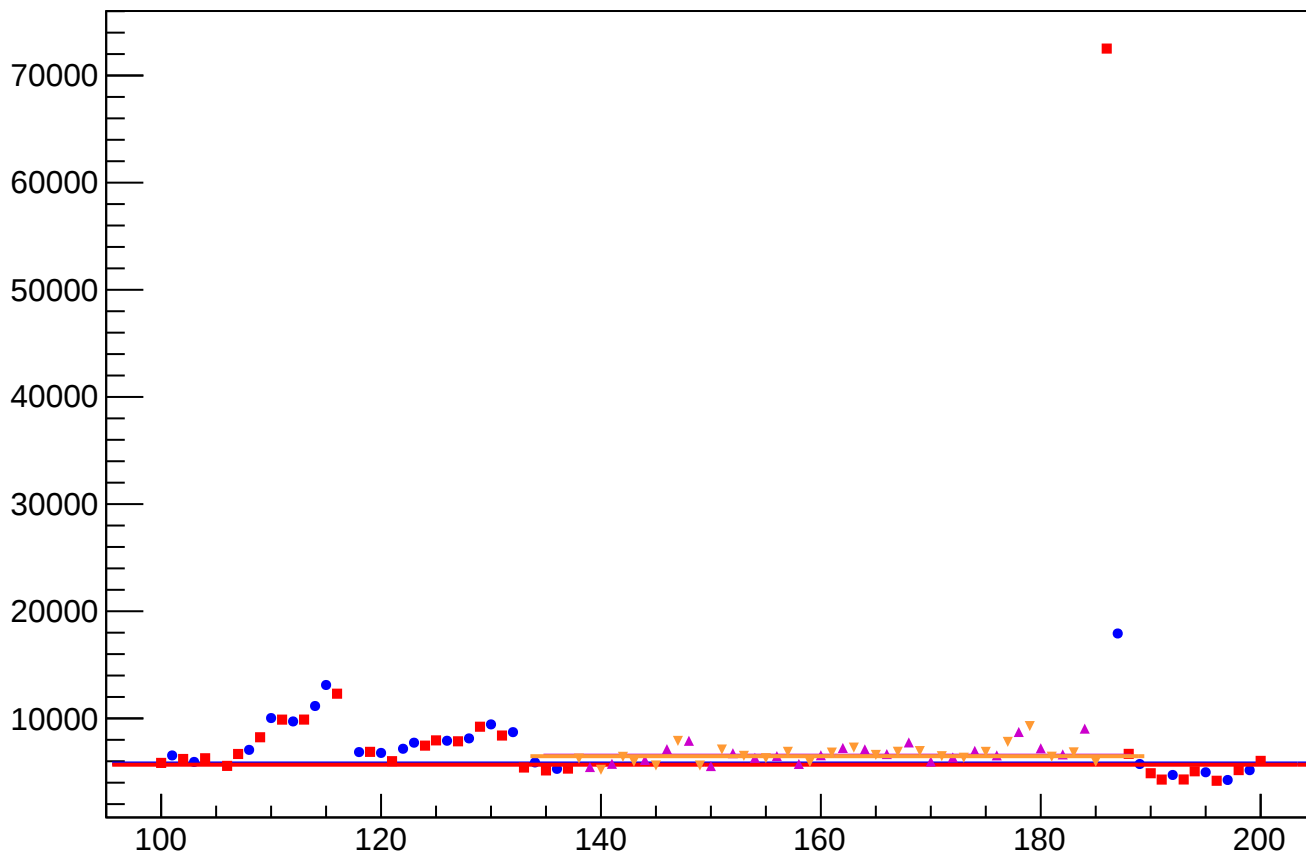
Right: -1.220 ± 1.236 χ^2/NDF : 52.8/50

In: -0.700 ± 1.202 χ^2/NDF : 55.0/45

Out: 0.658 ± 1.122 χ^2/NDF : 53.8/52

All: 0.026 ± 0.820 χ^2/NDF : 109.5/98

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5794.548 $\pm$ 1.312

χ^2/NDF : 1413489.9/22

Left: 6496.112 $\pm$ 0.775 χ^2/NDF : 971356.4/47

Left Out: 6471.976 $\pm$ 1.078

χ^2/NDF : 490282.9/24

Right: 5729.900 $\pm$ 0.874 χ^2/NDF : 3523140.2/50

Right Out: 5678.349 $\pm$ 1.172

χ^2/NDF : 2105288.6/27

In: 6216.782 $\pm$ 0.850 χ^2/NDF : 2071863.6/45

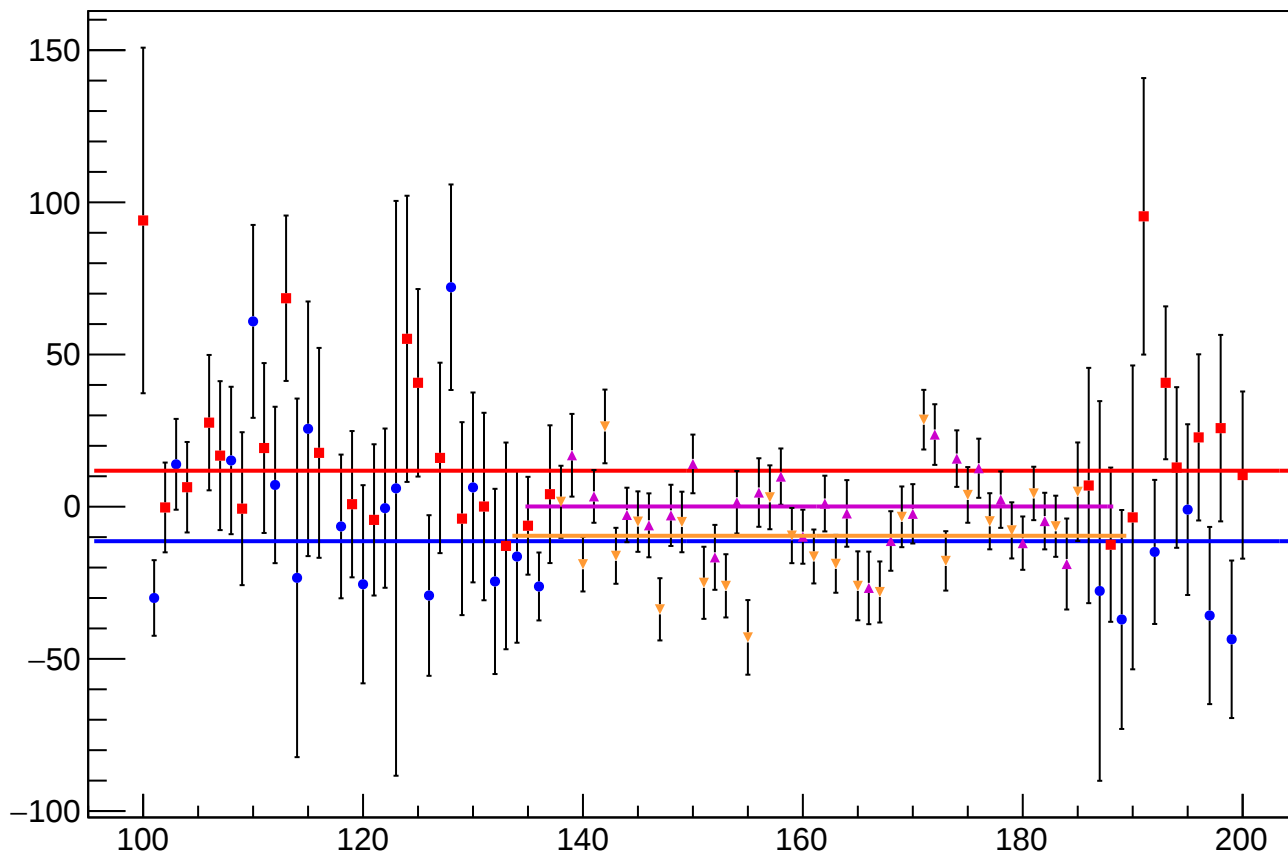
Out: 6108.283 $\pm$ 0.793 χ^2/NDF : 2844022.4/52

Left In: 6521.975 $\pm$ 1.116

χ^2/NDF : 480034.7/22

All: 6158.792 $\pm$ 0.580 χ^2/NDF : 4924593.6/98

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -11.336 $\pm$ 4.950 χ^2/NDF : 25.2/22

Left Out: -9.554 $\pm$ 2.012 χ^2/NDF : 59.5/24

Right Out: 11.822 $\pm$ 4.841 χ^2/NDF : 18.9/27

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

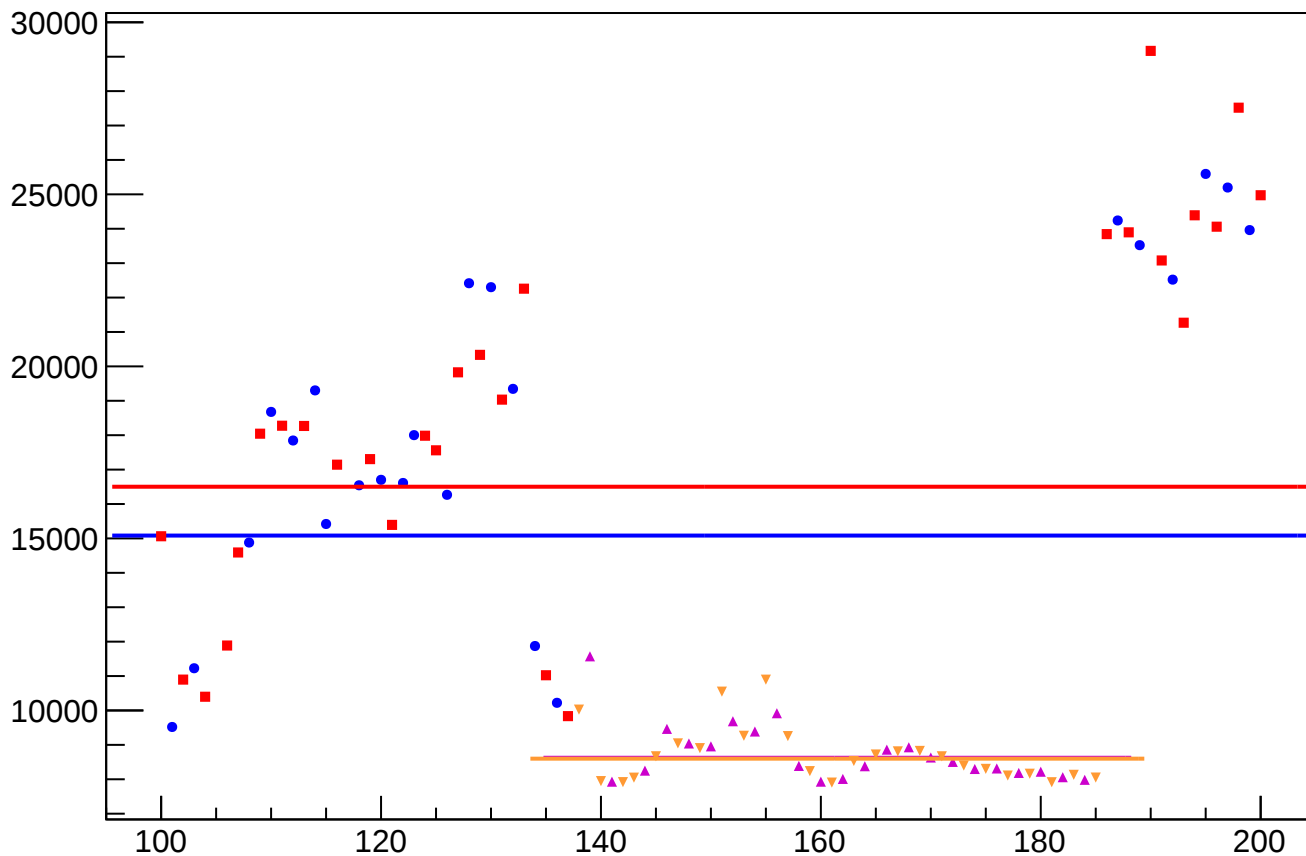
Right: 0.501 $\pm$ 3.461 χ^2/NDF : 55.3/50

In: -1.630 $\pm$ 1.912 χ^2/NDF : 59.5/45

Out: -6.406 $\pm$ 1.858 χ^2/NDF : 95.1/52

All: -4.087 $\pm$ 1.332 χ^2/NDF : 157.8/98

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15082.928+/-3.500 χ^2/NDF : 2373765.3/22

Left Out: 8598.983+/-1.423 χ^2/NDF : 249070.5/24

Right Out: 16502.442+/-3.423 χ^2/NDF : 2555818.8/27

Left In: 8625.233+/-1.466 χ^2/NDF : 237310.9/22

Left: 8611.717+/-1.021 χ^2/NDF : 486546.6/47

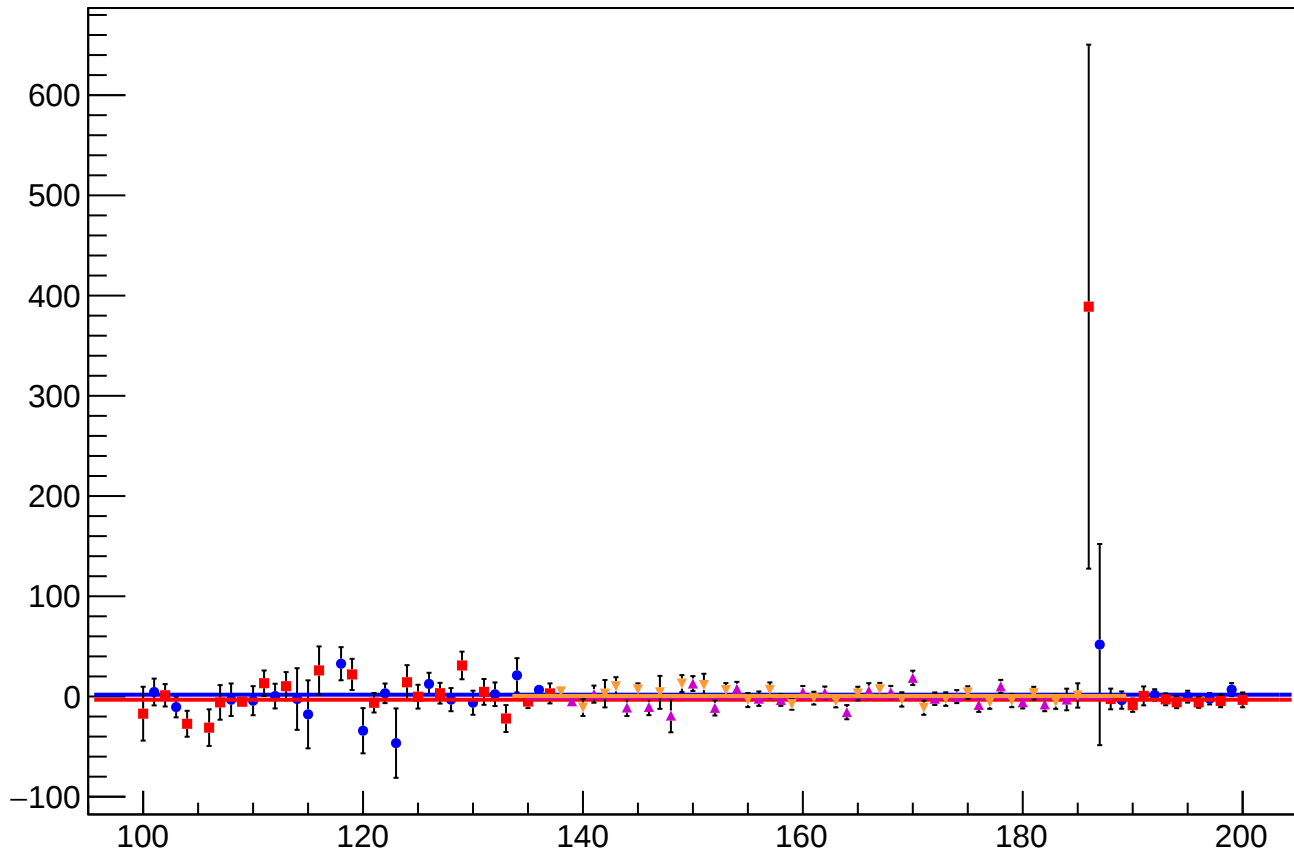
Right: 15808.477+/-2.447 χ^2/NDF : 5013660.6/50

In: 9588.689+/-1.352 χ^2/NDF : 5507438.8/45

Out: 9762.964+/-1.314 χ^2/NDF : 7351003.8/52

All: 9678.329+/-0.942 χ^2/NDF : 12866990.3/95

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.788 ± 1.968 $\chi^2/\text{NDF}: 16.0/22$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -3.214 ± 1.698 $\chi^2/\text{NDF}: 27.3/27$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

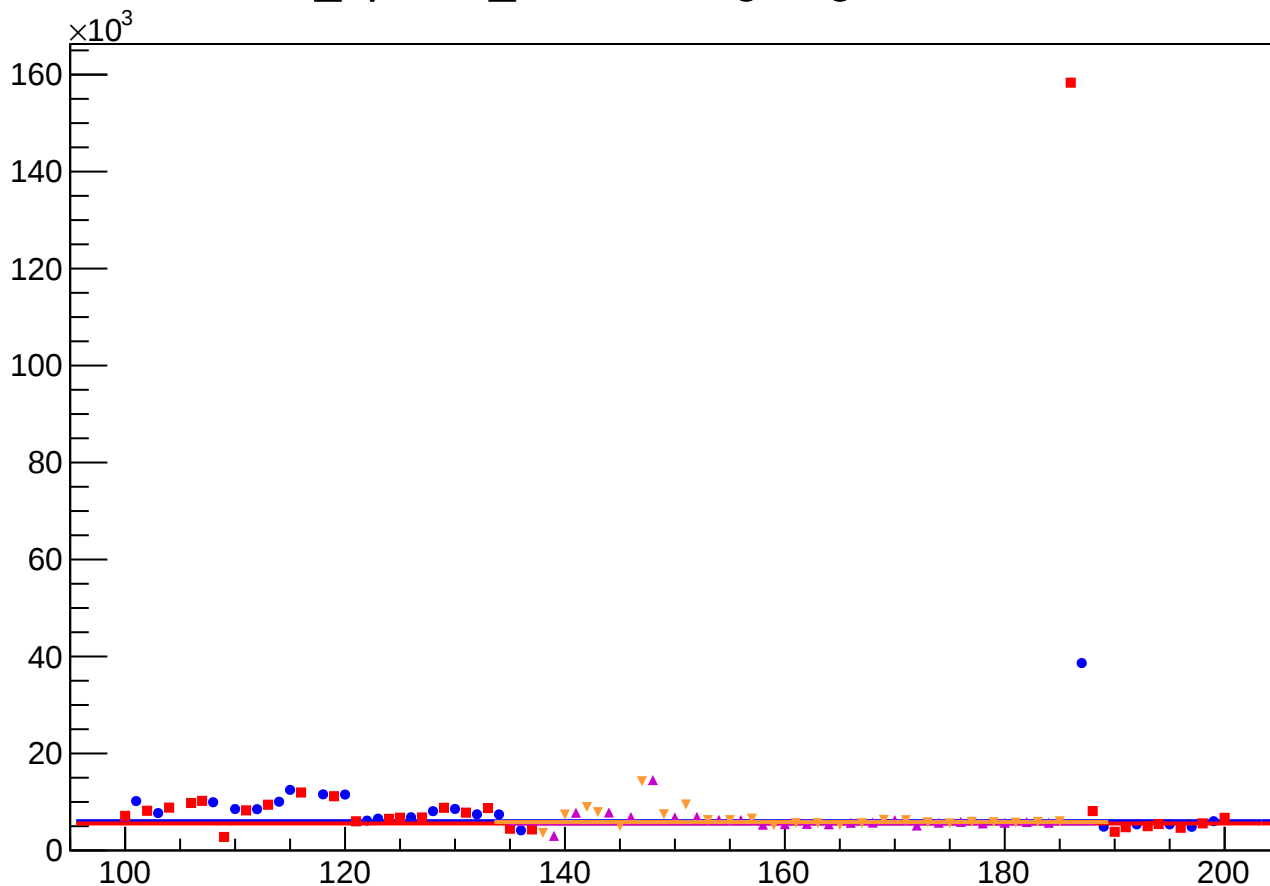
Right: -1.079 ± 1.286 $\chi^2/\text{NDF}: 46.9/50$

In: -0.100 ± 1.138 $\chi^2/\text{NDF}: 49.9/45$

Out: -1.009 ± 1.088 $\chi^2/\text{NDF}: 49.6/52$

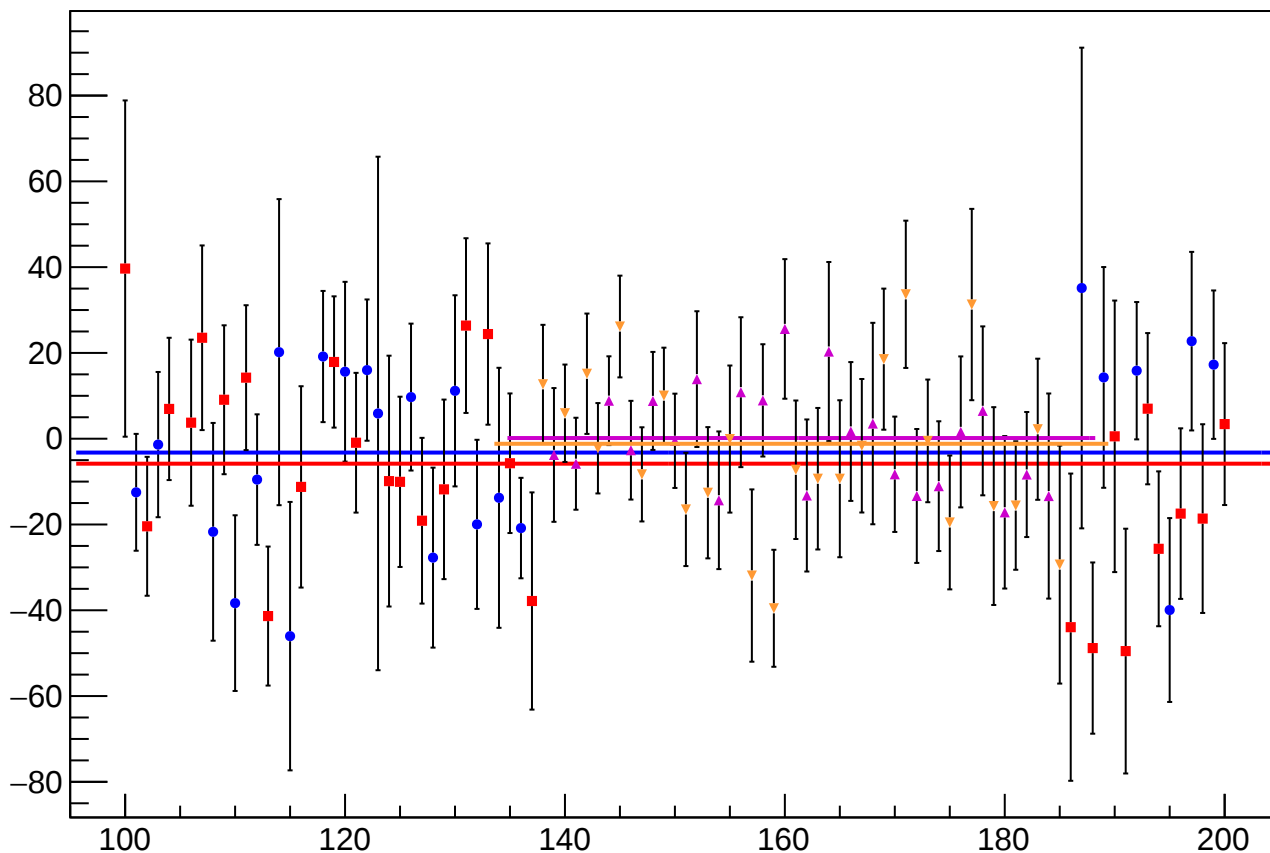
All: -0.575 ± 0.787 $\chi^2/\text{NDF}: 99.8/98$

diff_bpm1Y_rms vs Slug, Sign Corrected

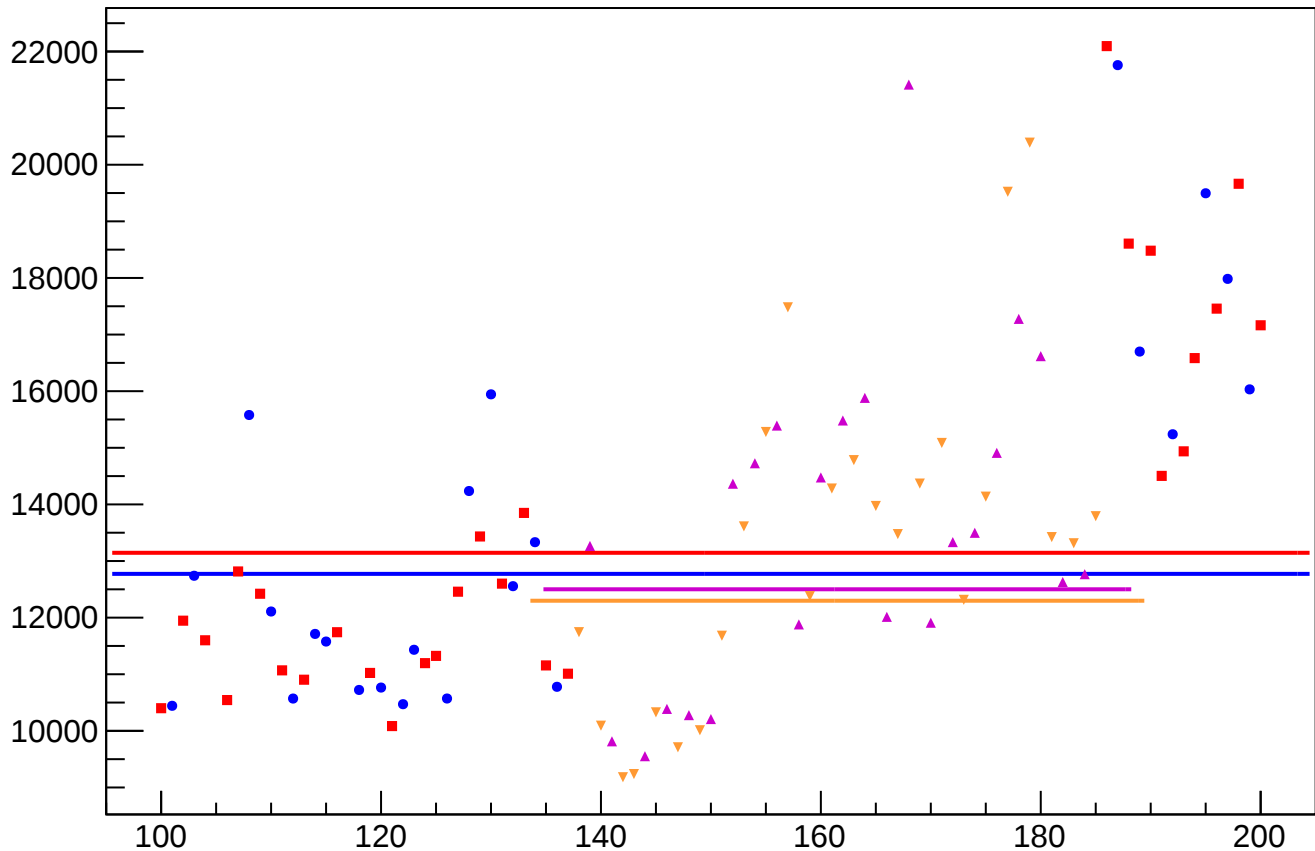


Right In: 6037.747 $\pm$ 1.392	χ^2/NDF : 1886274.9/22	Left: 5713.698 $\pm$ 0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605 $\pm$ 1.002	χ^2/NDF : 1690049.2/24	Right: 5762.582 $\pm$ 0.909	χ^2/NDF : 5339805.3/50
Right Out: 5557.757 $\pm$ 1.201	χ^2/NDF : 3385338.6/27	In: 5727.375 $\pm$ 0.805	χ^2/NDF : 4123805.3/45
Left In: 5571.330 $\pm$ 0.987	χ^2/NDF : 2162788.3/22	Out: 5736.222 $\pm$ 0.770	χ^2/NDF : 5112876.0/52
		All: 5731.998 $\pm$ 0.556	χ^2/NDF : 9236744.4/98

diff_bpm11X_mean vs Slug, Sign Corrected



diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12773.082 $\pm$ 2.848

χ^2/NDF : 906829.9/22

Left: 12395.720 $\pm$ 1.498 χ^2/NDF : 2868458.0/47

Right: 12972.665 $\pm$ 1.939 χ^2/NDF : 2044835.7/50

Left Out: 12298.676 $\pm$ 2.078

χ^2/NDF : 1506026.8/24

In: 12600.379 $\pm$ 1.722 χ^2/NDF : 2270518.1/45

Out: 12621.270 $\pm$ 1.635 χ^2/NDF : 2698117.4/52

Right Out: 13145.331 $\pm$ 2.649

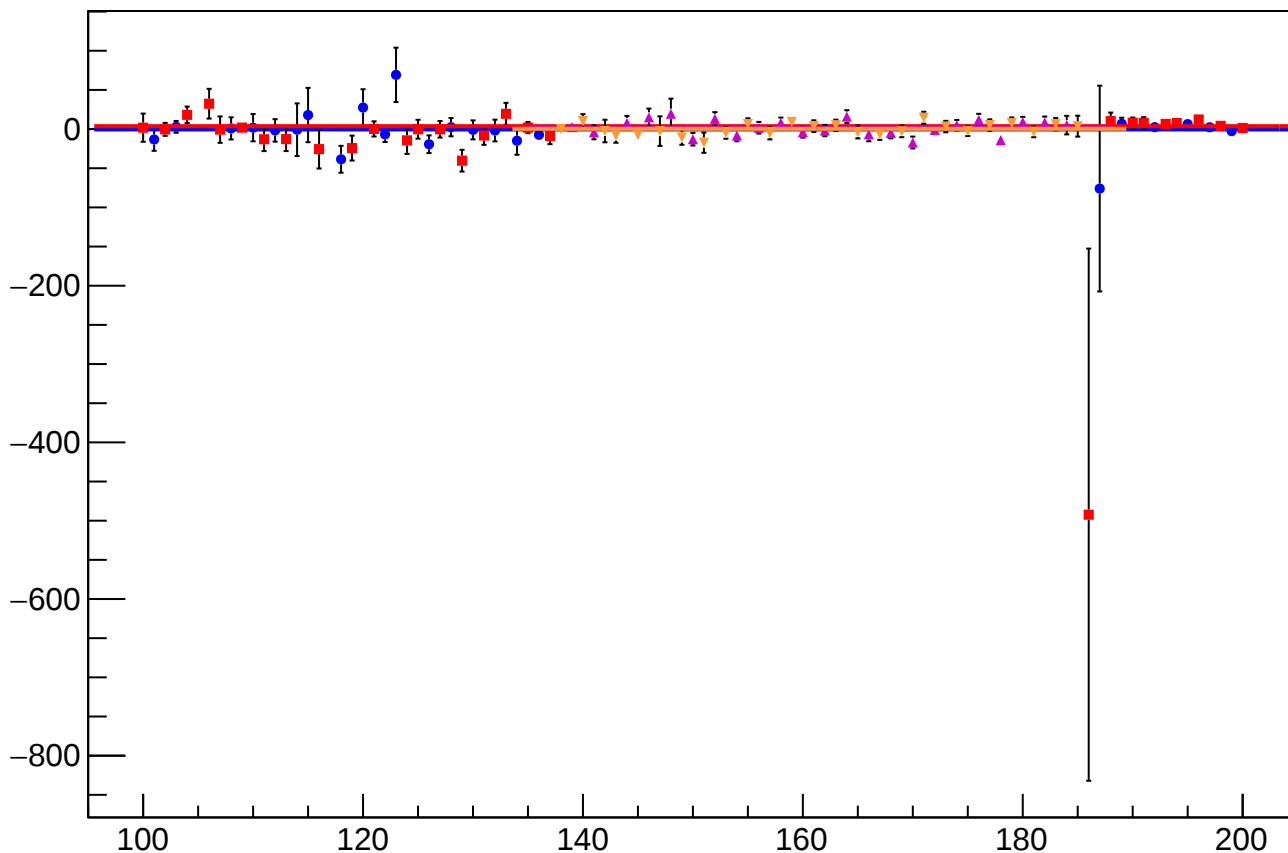
χ^2/NDF : 1128843.8/27

Left In: 12500.795 $\pm$ 2.162

χ^2/NDF : 1357889.1/22

All: 12611.367 $\pm$ 1.186 χ^2/NDF : 4968712.9/95

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.439 ± 1.787 χ^2/NDF : 21.6/22

Left Out: 0.353 ± 1.433 χ^2/NDF : 19.1/24

Right Out: 3.736 ± 1.539 χ^2/NDF : 34.2/27

Left In: 1.165 ± 1.371 χ^2/NDF : 33.6/22

Left: 0.777 ± 0.991 χ^2/NDF : 52.9/47

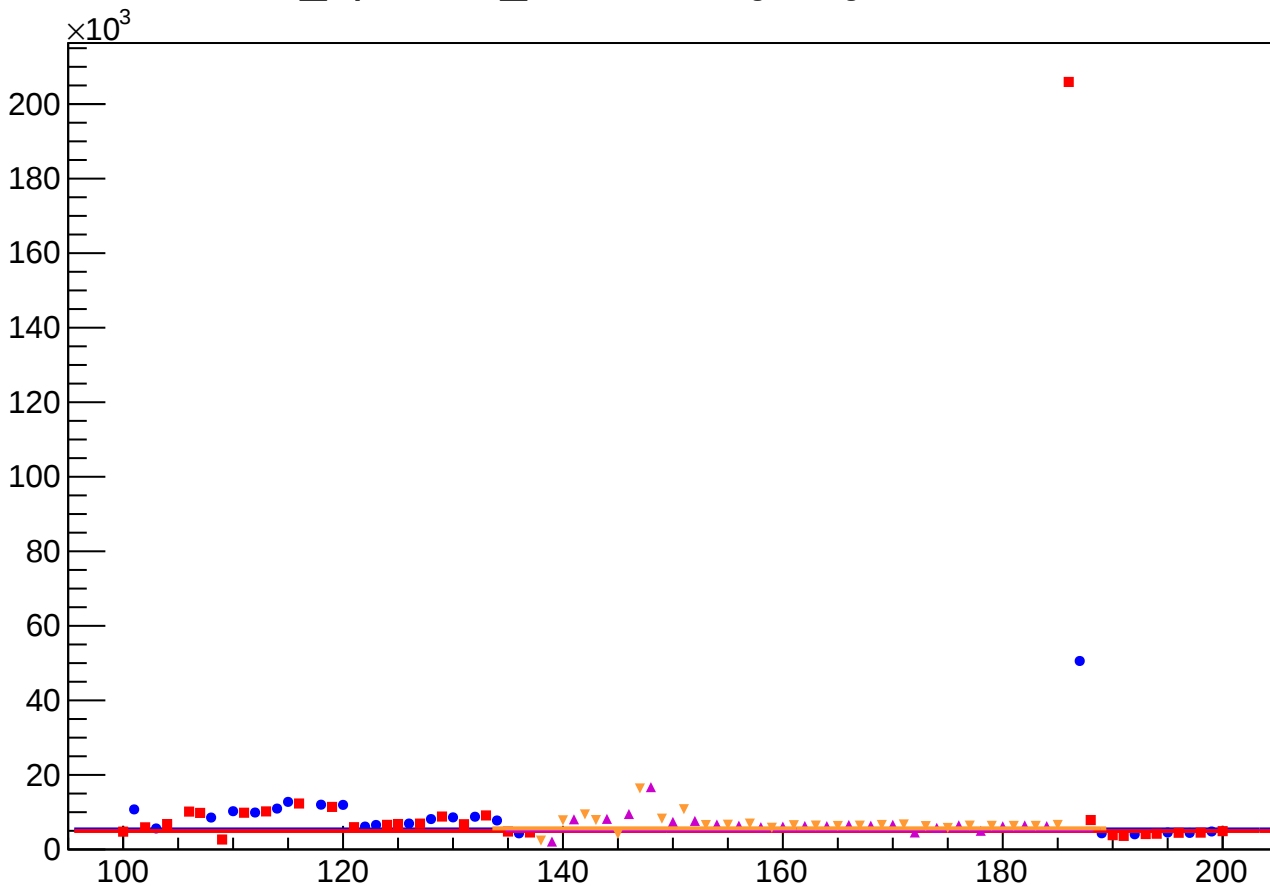
Right: 1.957 ± 1.166 χ^2/NDF : 58.9/50

In: 0.570 ± 1.088 χ^2/NDF : 55.7/45

Out: 1.924 ± 1.049 χ^2/NDF : 55.9/52

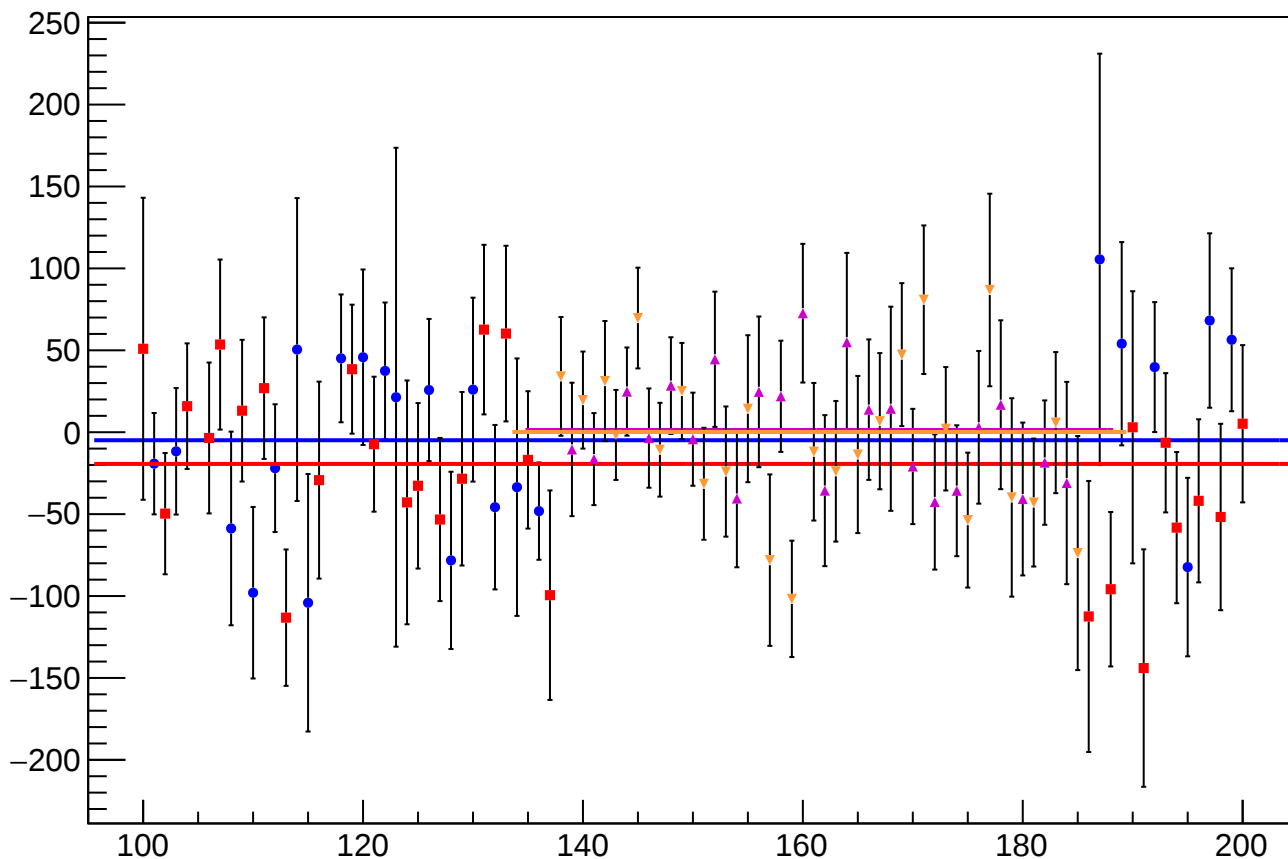
All: 1.272 ± 0.755 χ^2/NDF : 112.4/98

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5370.614+/-1.263	χ^2/NDF : 2505589.8/22	Left: 5387.078+/-0.701	χ^2/NDF : 9762498.7/47
Left Out: 5659.441+/-1.014	χ^2/NDF : 4128583.6/24	Right: 5135.439+/-0.825	χ^2/NDF : 6059348.7/50
Right Out: 4960.806+/-1.089	χ^2/NDF : 3493366.9/27	In: 5224.103+/-0.769	χ^2/NDF : 8022576.1/45
Left In: 5137.772+/-0.970	χ^2/NDF : 5495609.7/22	Out: 5335.025+/-0.742	χ^2/NDF : 7842572.0/52
		All: 5281.576+/-0.534	χ^2/NDF : 15875922.3/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -4.892 ± 10.009 χ^2/NDF : 24.4/22

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -19.354 ± 9.327 χ^2/NDF : 28.7/27

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

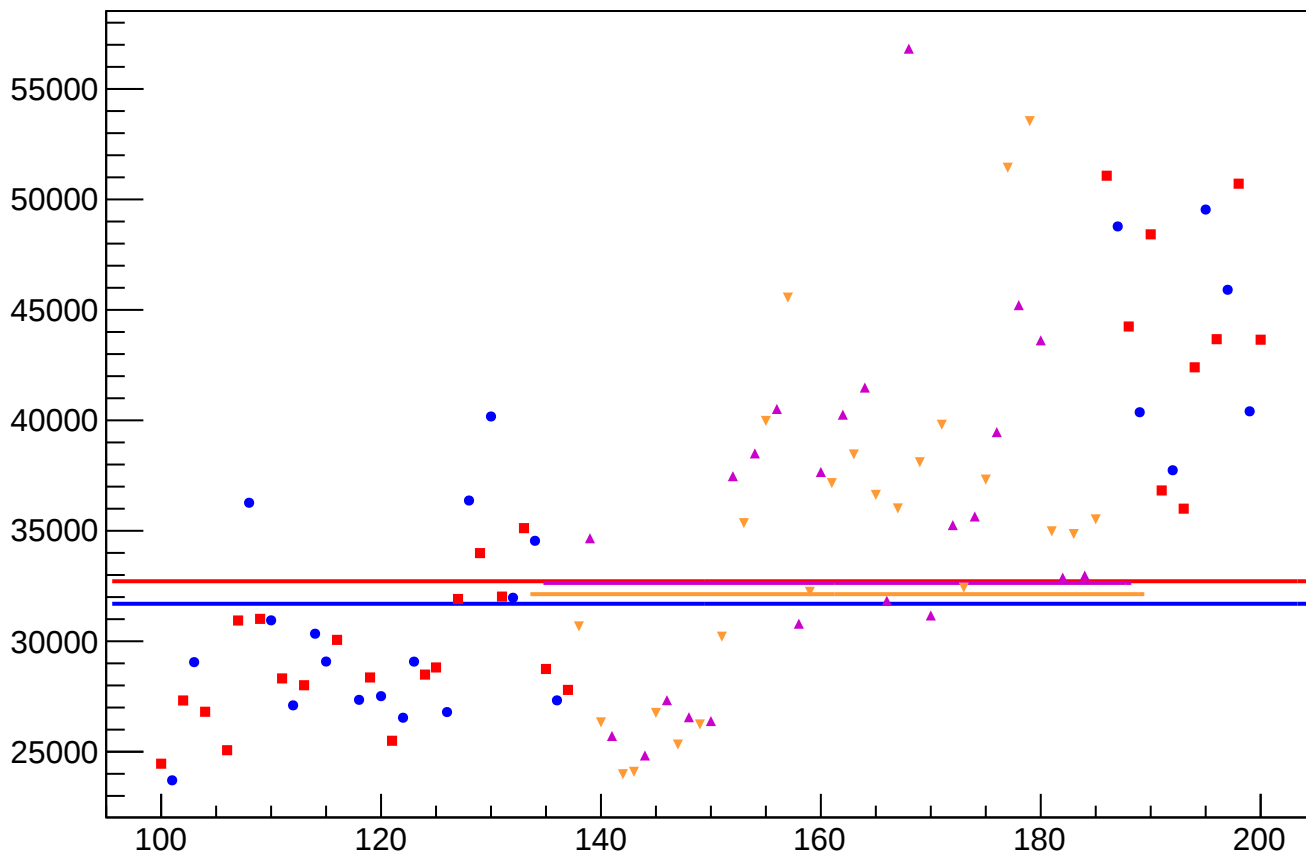
Right: -12.633 ± 6.823 χ^2/NDF : 54.2/50

In: -1.065 ± 6.245 χ^2/NDF : 37.9/45

Out: -7.740 ± 5.930 χ^2/NDF : 62.6/52

All: -4.575 ± 4.300 χ^2/NDF : 101.1/98

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 31697.249 $\pm$ 7.078

χ^2/NDF : 945306.7/22

Left: 32376.774 $\pm$ 3.916 χ^2/NDF : 2946456.2/47

Right: 32242.834 $\pm$ 4.825 χ^2/NDF : 2110210.2/50

Left Out: 32132.314 $\pm$ 5.433

χ^2/NDF : 1540079.4/24

In: 32273.762 $\pm$ 4.416 χ^2/NDF : 2358332.7/45

Out: 32368.508 $\pm$ 4.193 χ^2/NDF : 2698556.2/52

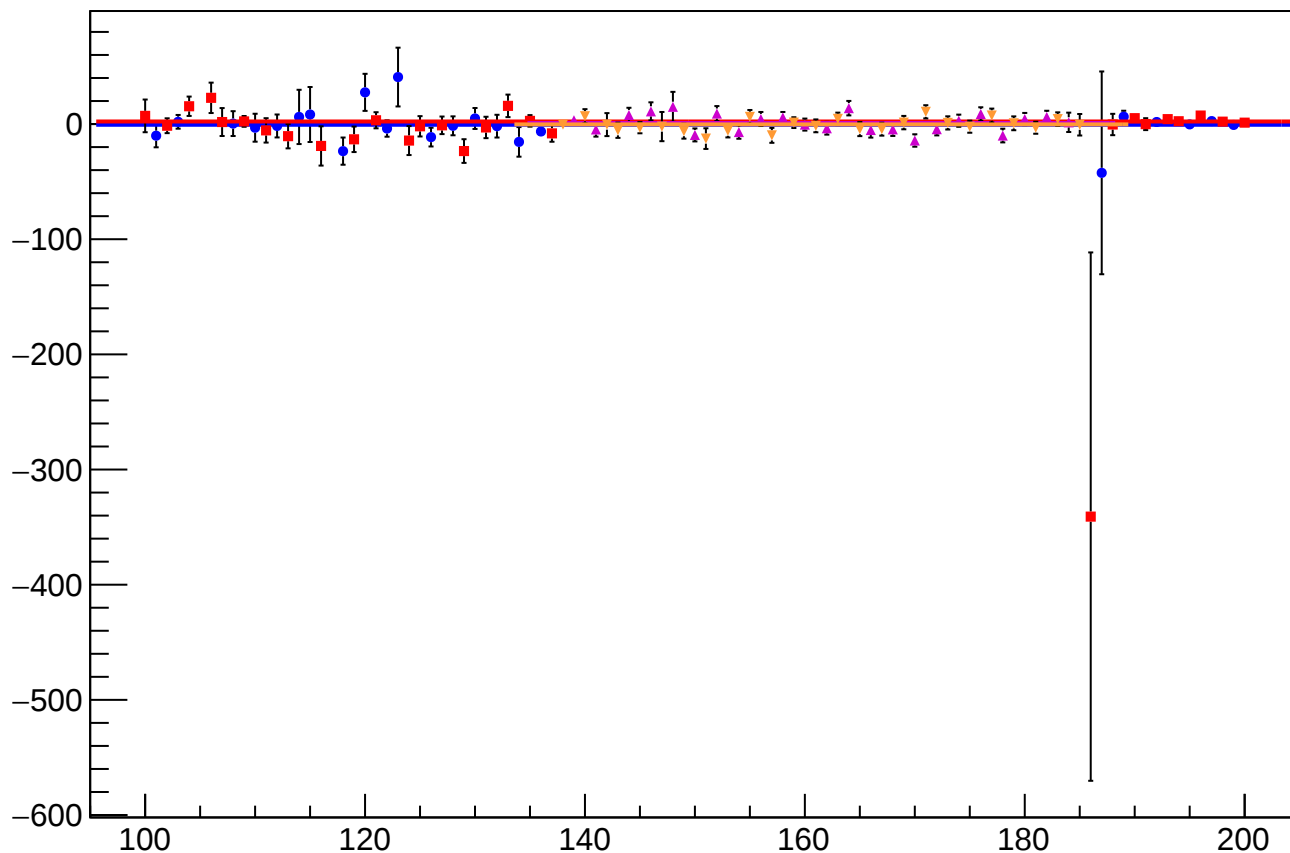
Right Out: 32716.537 $\pm$ 6.595

χ^2/NDF : 1153801.7/27

Left In: 32641.162 $\pm$ 5.650 χ^2/NDF : 1402162.4/22

All: 32323.580 $\pm$ 3.041 χ^2/NDF : 5057131.0/9

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -0.614 ± 1.239 χ^2/NDF : 21.1/22

Left Out: -0.312 ± 1.172 χ^2/NDF : 17.6/24

Right Out: 2.238 ± 1.112 χ^2/NDF : 29.6/27

Left In: 0.908 ± 1.142 χ^2/NDF : 36.2/22

Left: 0.313 ± 0.818 χ^2/NDF : 54.4/47

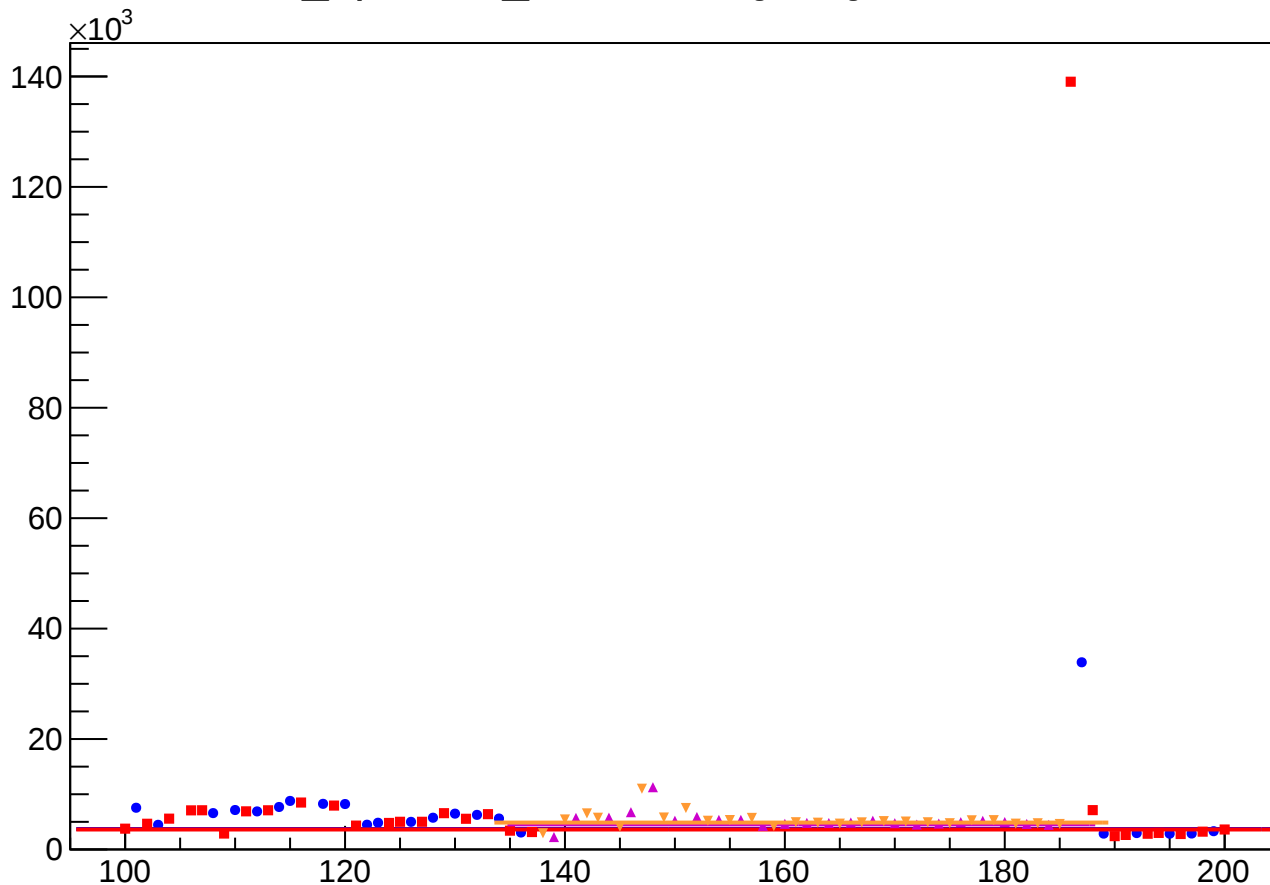
Right: 0.965 ± 0.828 χ^2/NDF : 53.6/50

In: 0.208 ± 0.840 χ^2/NDF : 58.1/45

Out: 1.030 ± 0.807 χ^2/NDF : 49.7/52

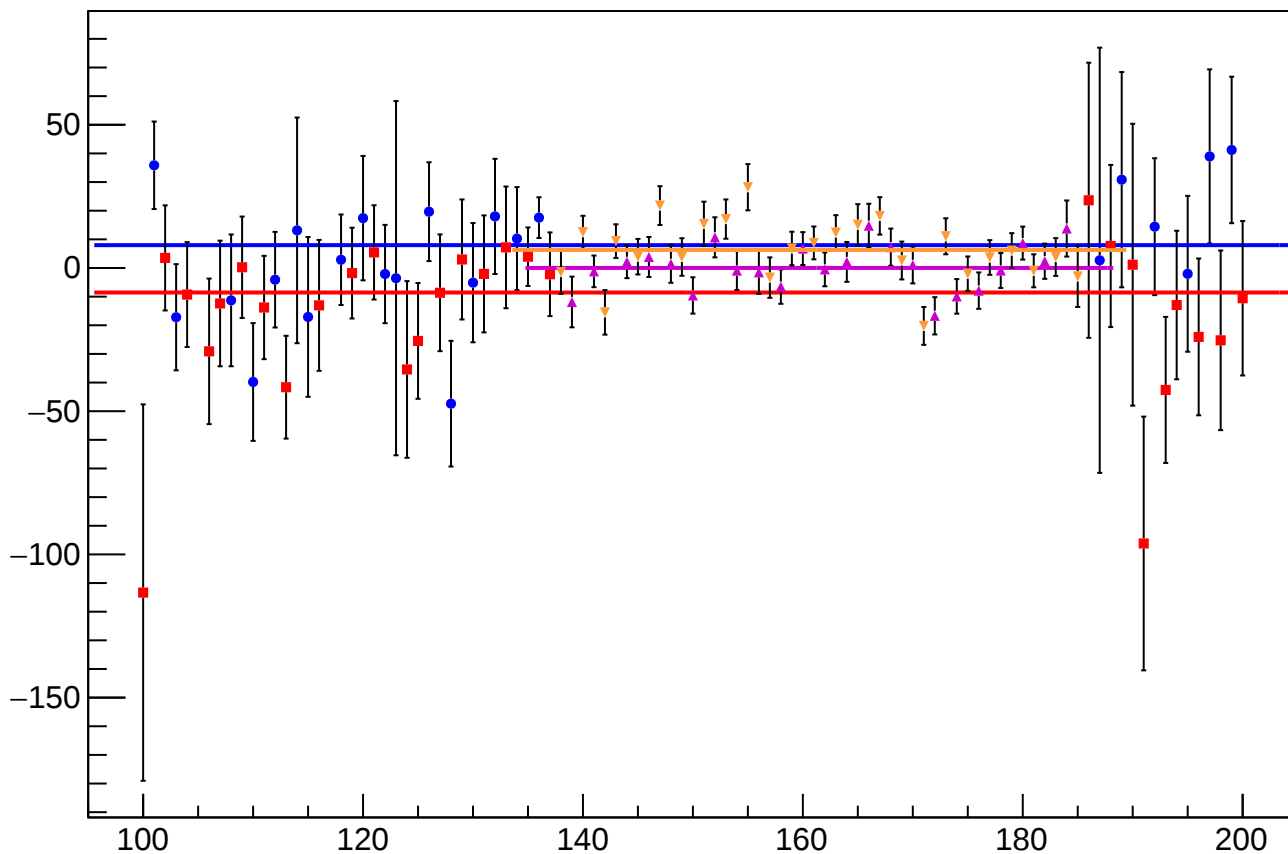
All: 0.635 ± 0.582 χ^2/NDF : 108.3/98

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3701.125+/-0.876	χ^2/NDF : 2761586.9/22	Left: 4702.320+/-0.578	χ^2/NDF : 4223993.0/47
Left Out: 4868.567+/-0.829	χ^2/NDF : 1511151.0/24	Right: 3654.226+/-0.585	χ^2/NDF : 6299544.4/50
Right Out: 3616.415+/-0.786	χ^2/NDF : 3532778.9/27	In: 4156.850+/-0.594	χ^2/NDF : 5896799.9/45
Left In: 4544.337+/-0.808	χ^2/NDF : 2634314.4/22	Out: 4209.906+/-0.570	χ^2/NDF : 6245451.9/52
		All: 4184.442+/-0.411	χ^2/NDF : 12146404.4/9

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 7.976 ± 3.880 χ^2/NDF : 25.9/22

Left Out: 6.296 ± 1.310 χ^2/NDF : 56.5/24

Right Out: -8.561 ± 3.917 χ^2/NDF : 19.6/27

Left In: 0.020 ± 1.353 χ^2/NDF : 29.9/22

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

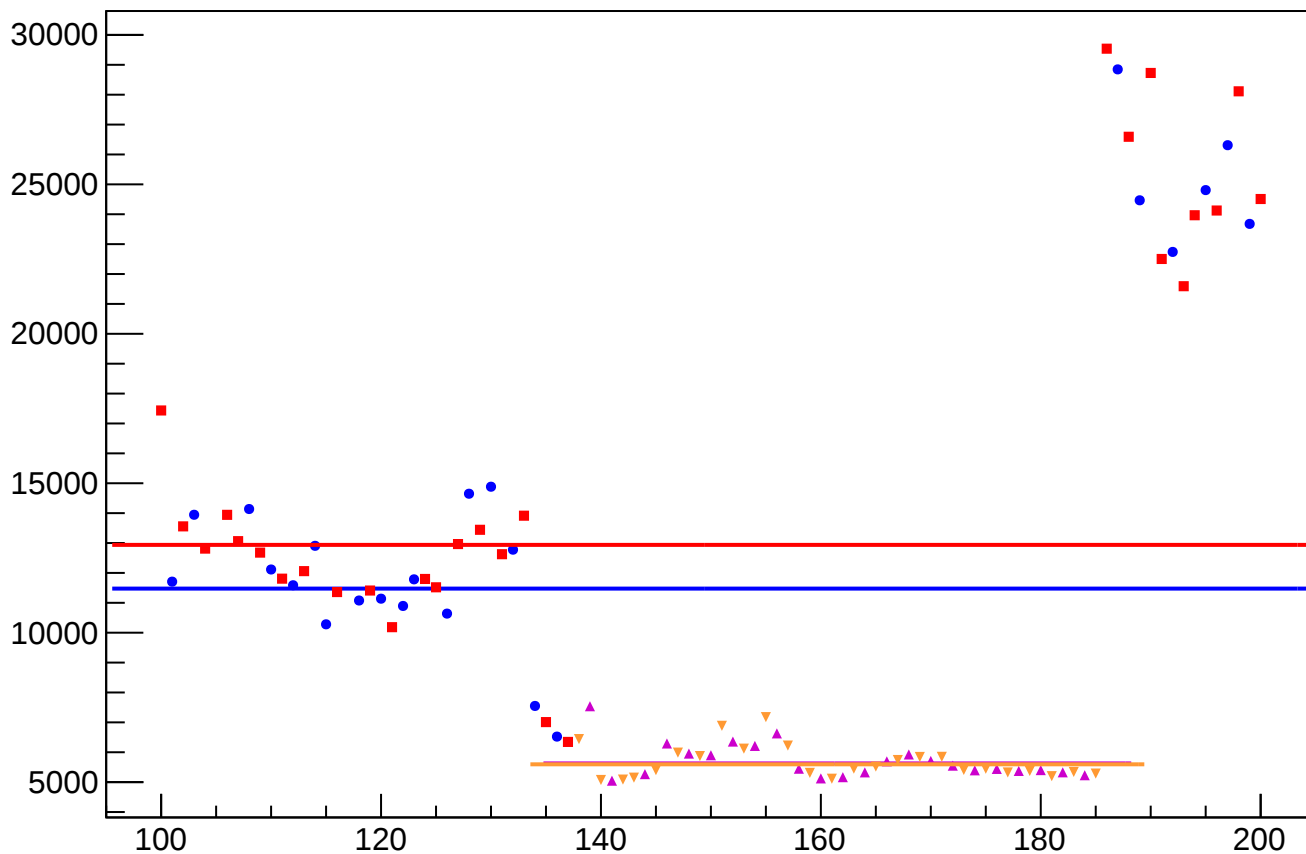
Right: -0.214 ± 2.756 χ^2/NDF : 54.5/50

In: 0.883 ± 1.278 χ^2/NDF : 59.6/45

Out: 4.801 ± 1.243 χ^2/NDF : 89.0/52

All: 2.896 ± 0.891 χ^2/NDF : 153.5/98

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 11475.318+/-2.744 χ^2/NDF : 3453121.7/22

Left Out: 5596.370+/-0.926 χ^2/NDF : 283998.1/24

Right Out: 12937.834+/-2.770 χ^2/NDF : 3977495.6/27

Left In: 5627.283+/-0.957 χ^2/NDF : 279318.7/22

Left: 5611.329+/-0.666 χ^2/NDF : 563855.6/47

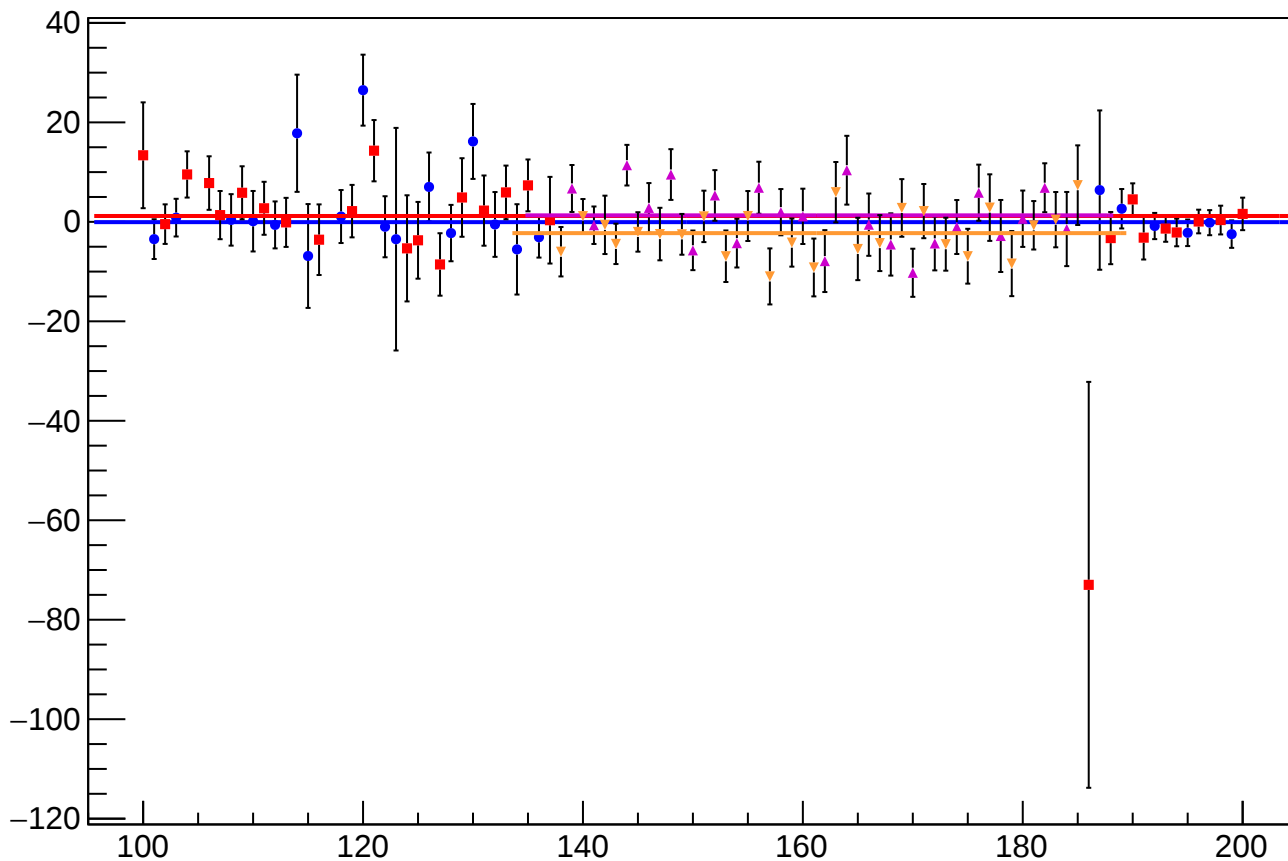
Right: 12199.678+/-1.949 χ^2/NDF : 7571361.1/50

In: 6261.385+/-0.903 χ^2/NDF : 7783329.4/45

Out: 6335.181+/-0.879 χ^2/NDF : 10580985.1/52

All: 6299.311+/-0.630 χ^2/NDF : 18367743.7/95

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.059 $\pm$ 0.934 χ^2/NDF : 26.3/22

Left Out: -2.268 $\pm$ 1.029 χ^2/NDF :15.4/24

Right Out: 1.178 $\pm$ 0.843 χ^2/NDF : 26.5/27

Left In: 1.305 $\pm$ 1.077 χ^2/NDF :30.8/22

Left: -0.562 $\pm$ 0.744 χ^2/NDF : 51.9/47

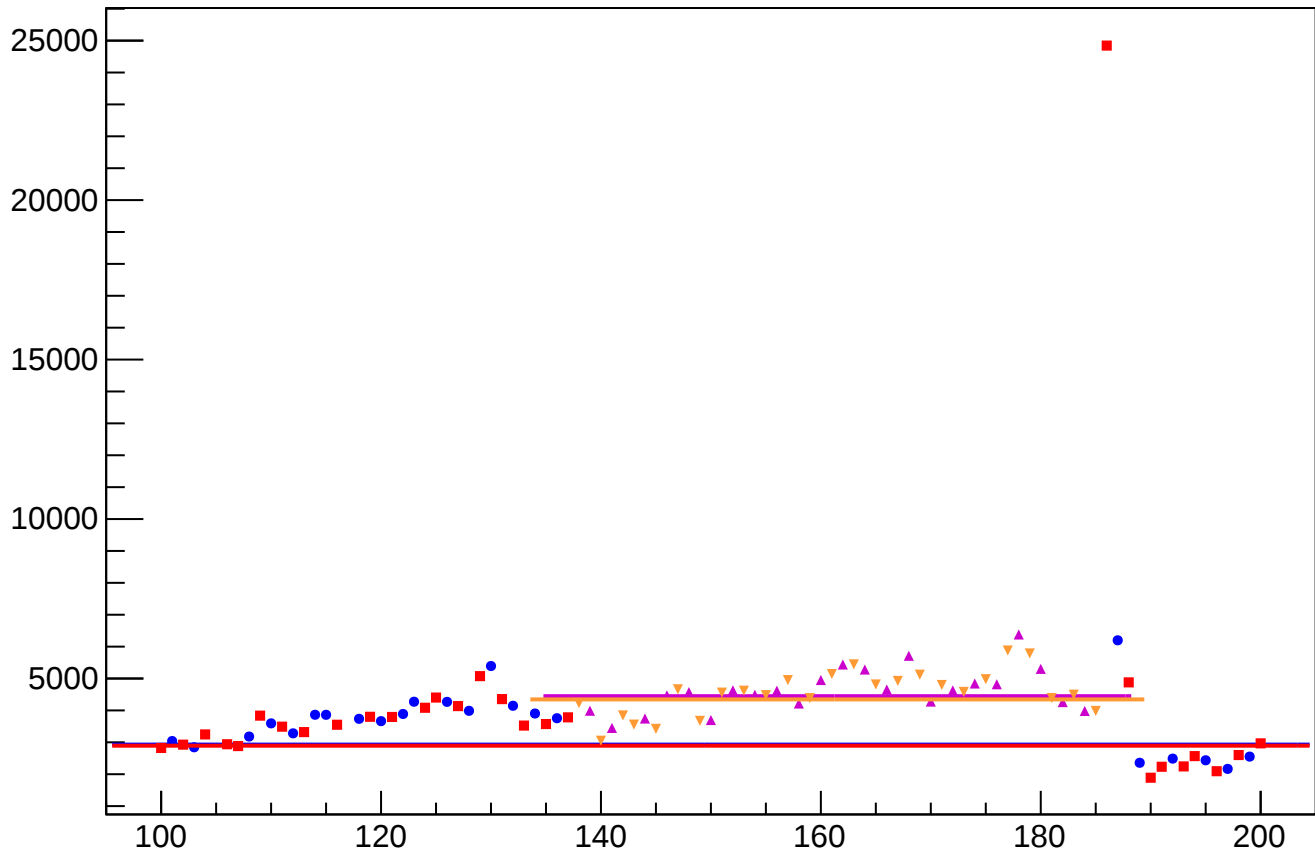
Right: 0.622 $\pm$ 0.626 χ^2/NDF : 53.8/50

In: 0.526 $\pm$ 0.706 χ^2/NDF :58.1/45

Out: -0.205 $\pm$ 0.652 χ^2/NDF :48.6/52

All: 0.132 $\pm$ 0.479 χ^2/NDF : 107.2/98

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2928.359+/-0.660

χ^2/NDF : 1195379.6/22

Left: 4393.504+/-0.526

χ^2/NDF : 1712588.4/47

Left Out: 4345.381+/-0.728

χ^2/NDF : 1000636.1/24

Right: 2909.554+/-0.443

χ^2/NDF : 3429532.8/50

Right Out: 2894.225+/-0.596

χ^2/NDF : 2232681.3/27

In: 3579.748+/-0.499

χ^2/NDF : 4165489.1/45

Out: 3476.864+/-0.461

χ^2/NDF : 5611925.0/52

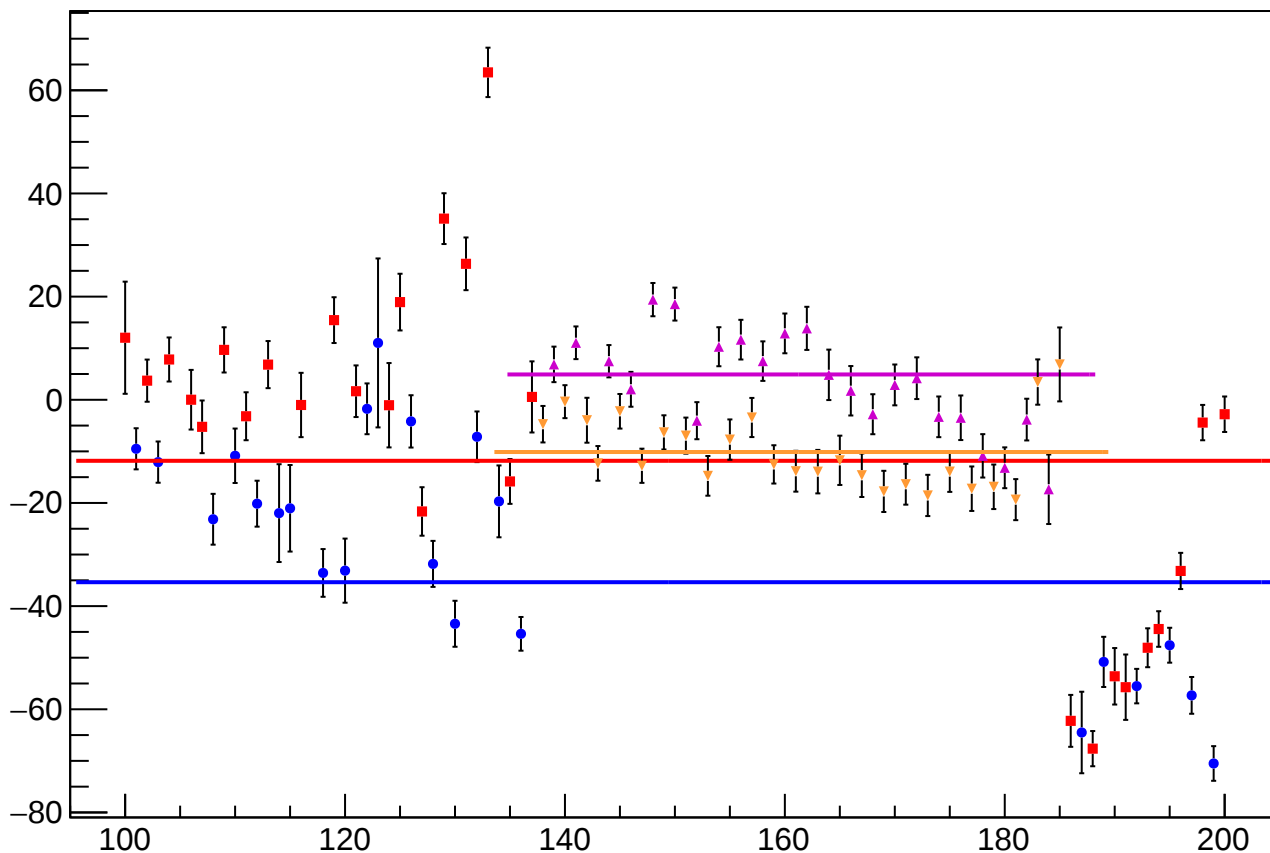
Left In: 4446.181+/-0.762

χ^2/NDF : 702797.6/22

All: 3524.274+/-0.339

χ^2/NDF : 9800342.2/98

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -35.363±0.956 χ^2/NDF : 484.9/22

Left Out: -10.125±0.775 χ^2/NDF : 67.9/24

Right Out: -11.828±0.866 χ^2/NDF : 1278.0/27

Left In: 4.911±0.797 χ^2/NDF : 127.9/22

Left: -2.814±0.556 χ^2/NDF : 378.7/47

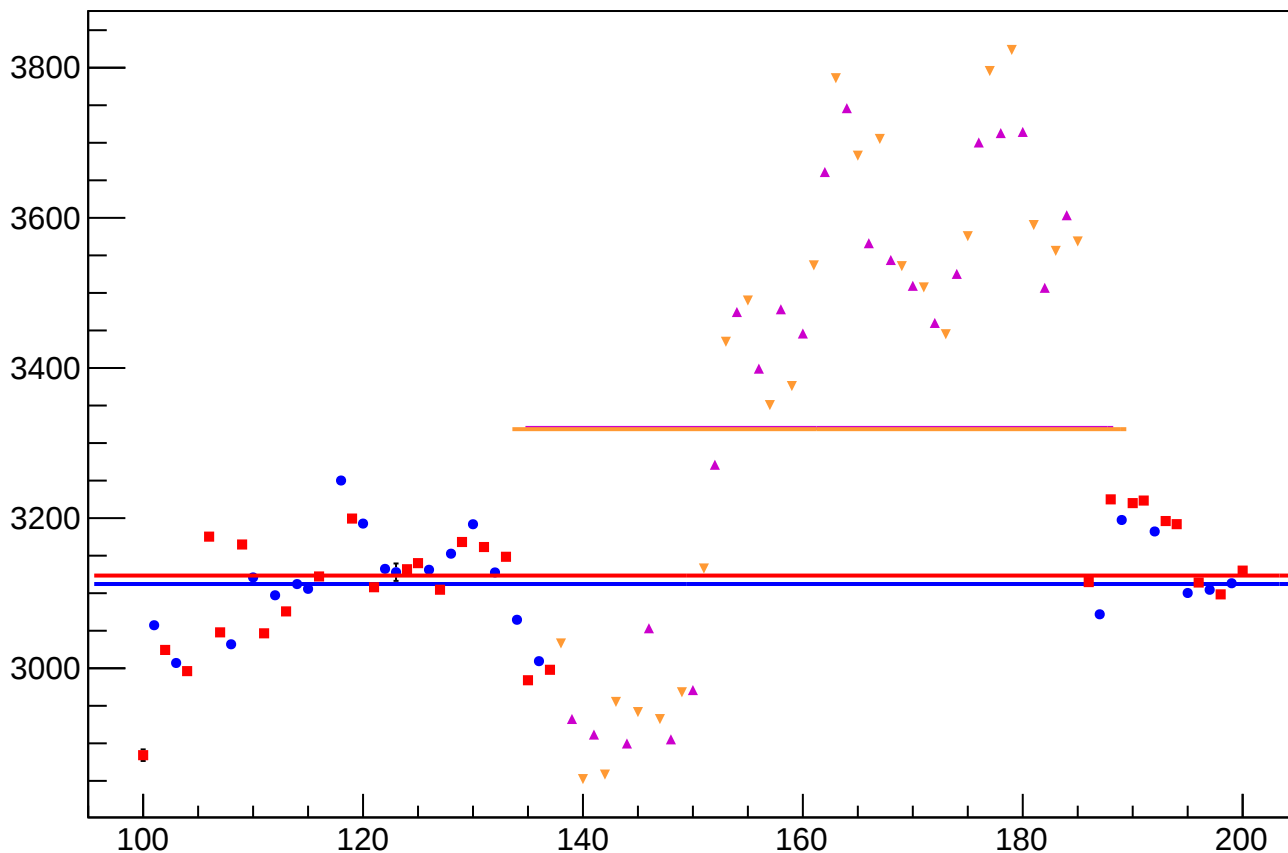
Right: -22.435±0.642 χ^2/NDF : 2095.7/50

In: -11.604±0.612 χ^2/NDF : 1659.6/45

Out: -10.883±0.578 χ^2/NDF : 1348.1/52

All: -11.222±0.420 χ^2/NDF : 3008.4/98

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3112.244+/-0.676 χ^2/NDF : 8974.6/22

Left Out: 3318.506+/-0.548 χ^2/NDF : 337694.2/24

Right Out: 3123.505+/-0.612 χ^2/NDF : 13727.1/27

Left In: 3320.170+/-0.564 χ^2/NDF : 287634.9/22

Left: 3319.315+/-0.393 χ^2/NDF : 625333.6/47

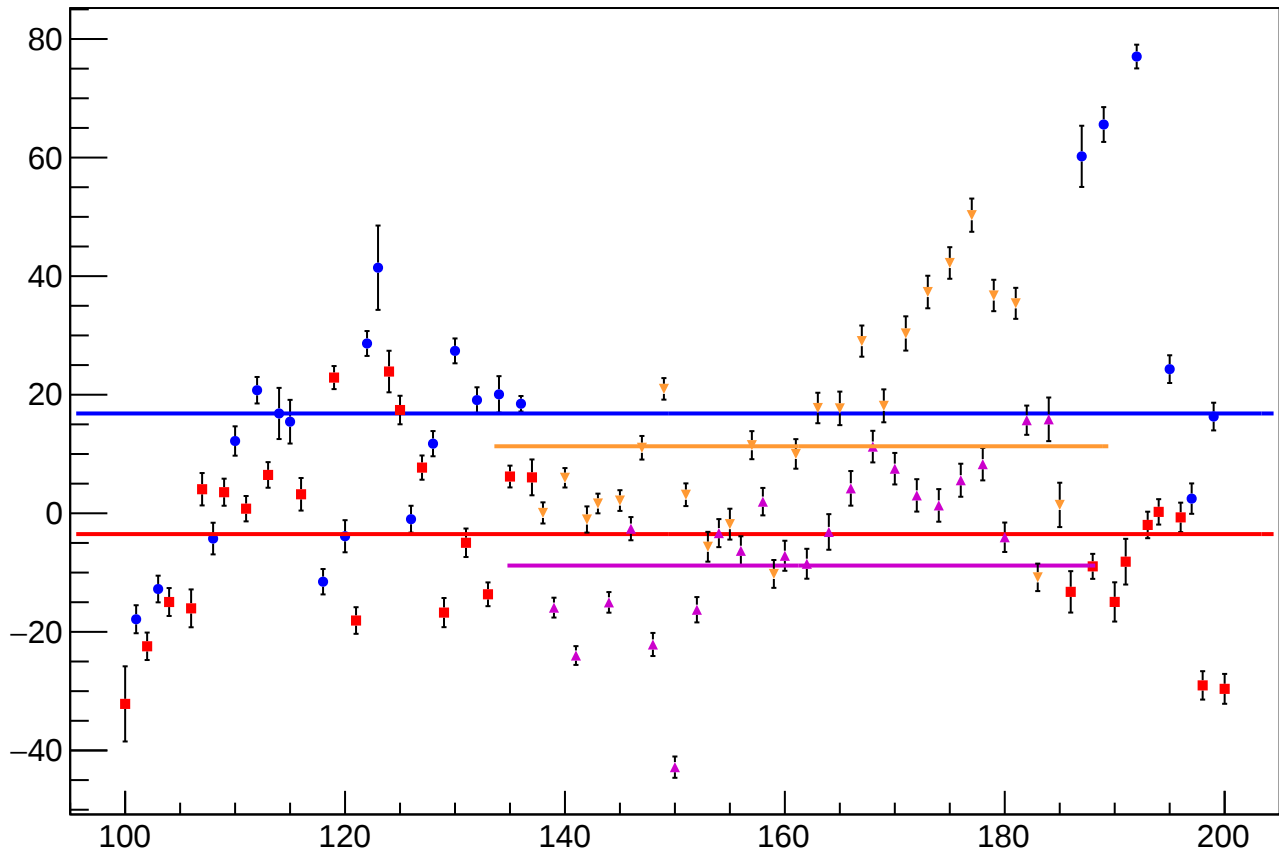
Right: 3118.430+/-0.454 χ^2/NDF : 22854.1/50

In: 3234.906+/-0.433 χ^2/NDF : 352411.5/45

Out: 3231.727+/-0.408 χ^2/NDF : 407702.3/52

All: 3233.224+/-0.297 χ^2/NDF : 760142.2/98

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 16.837 ± 0.495 $\chi^2/\text{NDF}: 2123.7/22$

Left Out: 11.305 ± 0.454 $\chi^2/\text{NDF}: 1144.3/24$

Right Out: -3.508 ± 0.461 $\chi^2/\text{NDF}: 914.8/27$

Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$

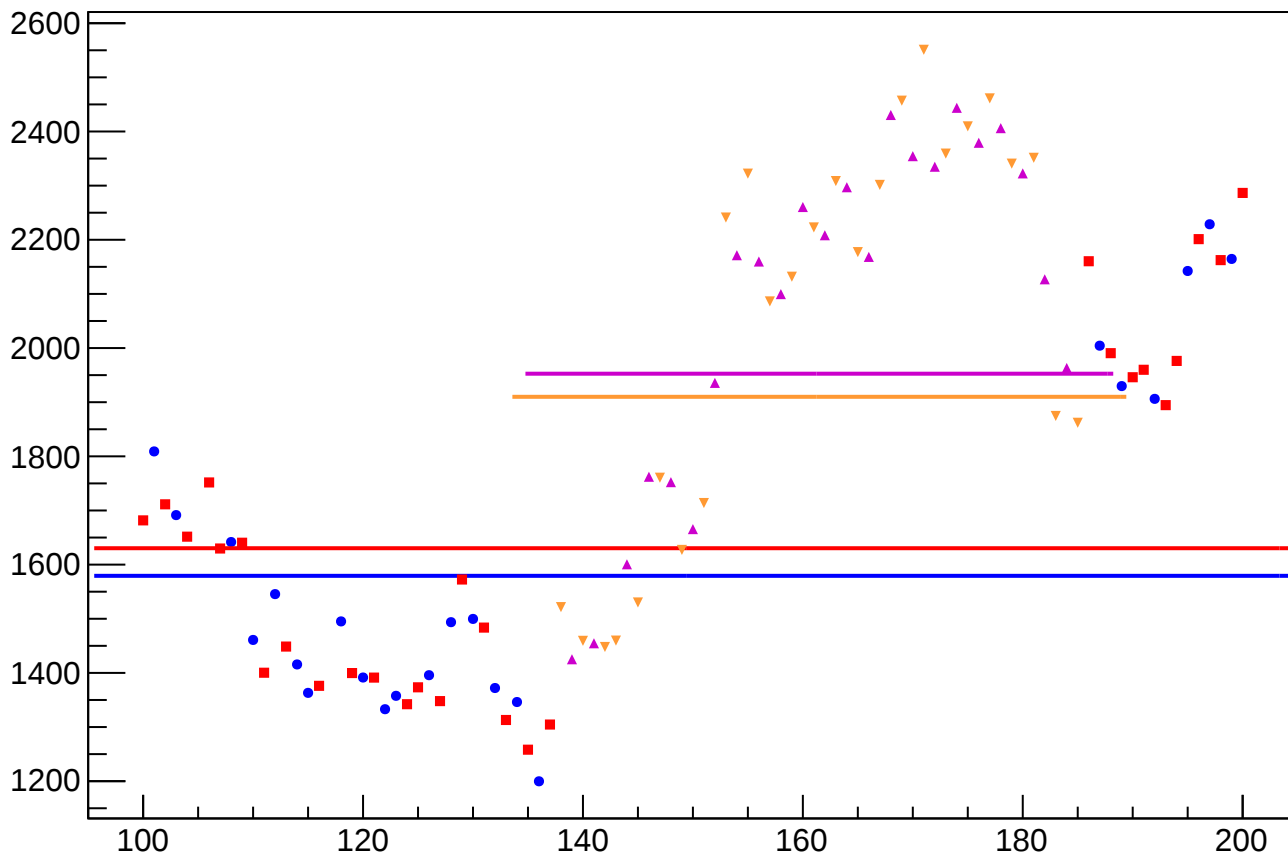
Right: 5.937 ± 0.337 $\chi^2/\text{NDF}: 3943.2/50$

In: 3.489 ± 0.343 $\chi^2/\text{NDF}: 4462.6/45$

Out: 4.012 ± 0.323 $\chi^2/\text{NDF}: 2583.5/52$

All: 3.766 ± 0.235 $\chi^2/\text{NDF}: 7047.4/98$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1579.304 $\pm$ 0.350 χ^2 /NDF: 764684.7/22

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1630.289 $\pm$ 0.326 χ^2 /NDF: 906462.6/27

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

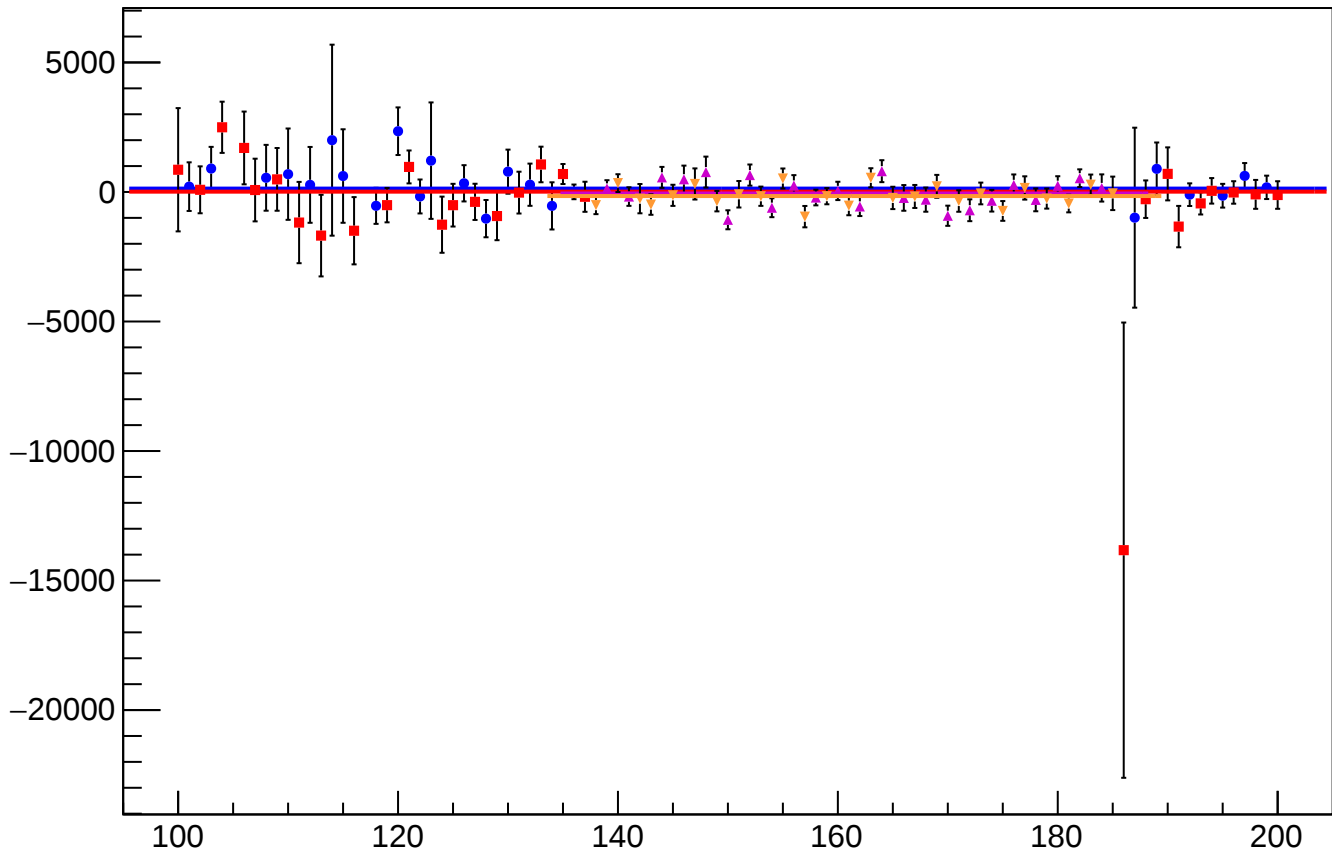
Right: 1606.620 $\pm$ 0.239 χ^2 /NDF: 1682509.9/50

In: 1773.562 $\pm$ 0.242 χ^2 /NDF:2421718.9/45

Out: 1772.276 $\pm$ 0.229 χ^2 /NDF:2679826.0/52

All: 1772.882 $\pm$ 0.166 χ^2 /NDF: 5101559.8/98

asym_sam1_mean vs Slug, Sign Corrected



Right In: 130.396+/-140.469 χ^2/NDF : 14.9/22

Left Out: -157.242+/-80.796 χ^2/NDF :22.0/24

Right Out: 12.613+/-134.393 χ^2/NDF : 29.9/27

Left In: -58.934+/-82.584 χ^2/NDF :38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

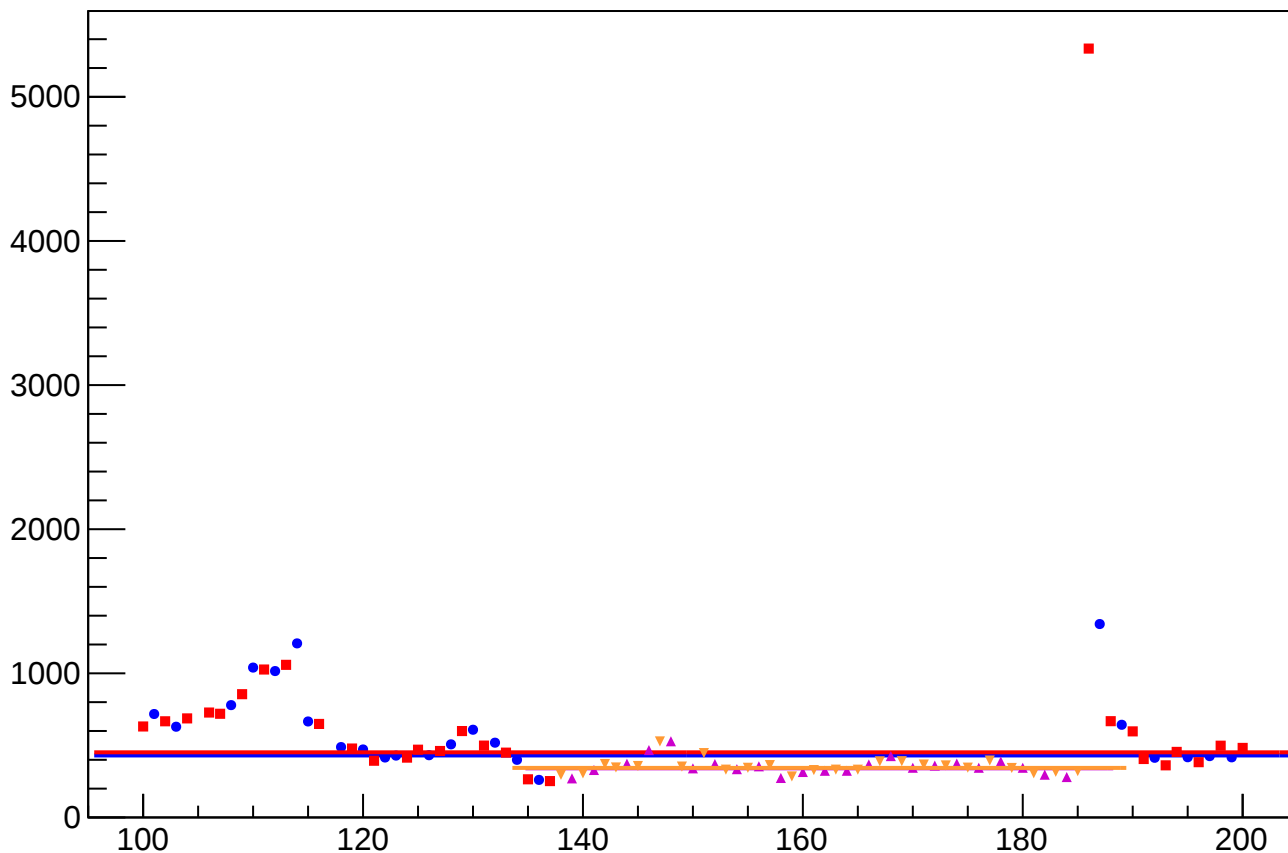
Right: 68.902+/-97.107 χ^2/NDF : 45.2/50

In: -10.301+/-71.192 χ^2/NDF :54.8/45

Out: -112.149+/-69.245 χ^2/NDF :53.1/52

All: -62.637+/-49.638 χ^2/NDF : 108.9/98

asym_sam1_rms vs Slug, Sign Corrected



Right In: 430.205+/-0.099 χ^2/NDF : 2238638.3/22

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 451.953+/-0.095 χ^2/NDF : 3034243.9/27

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

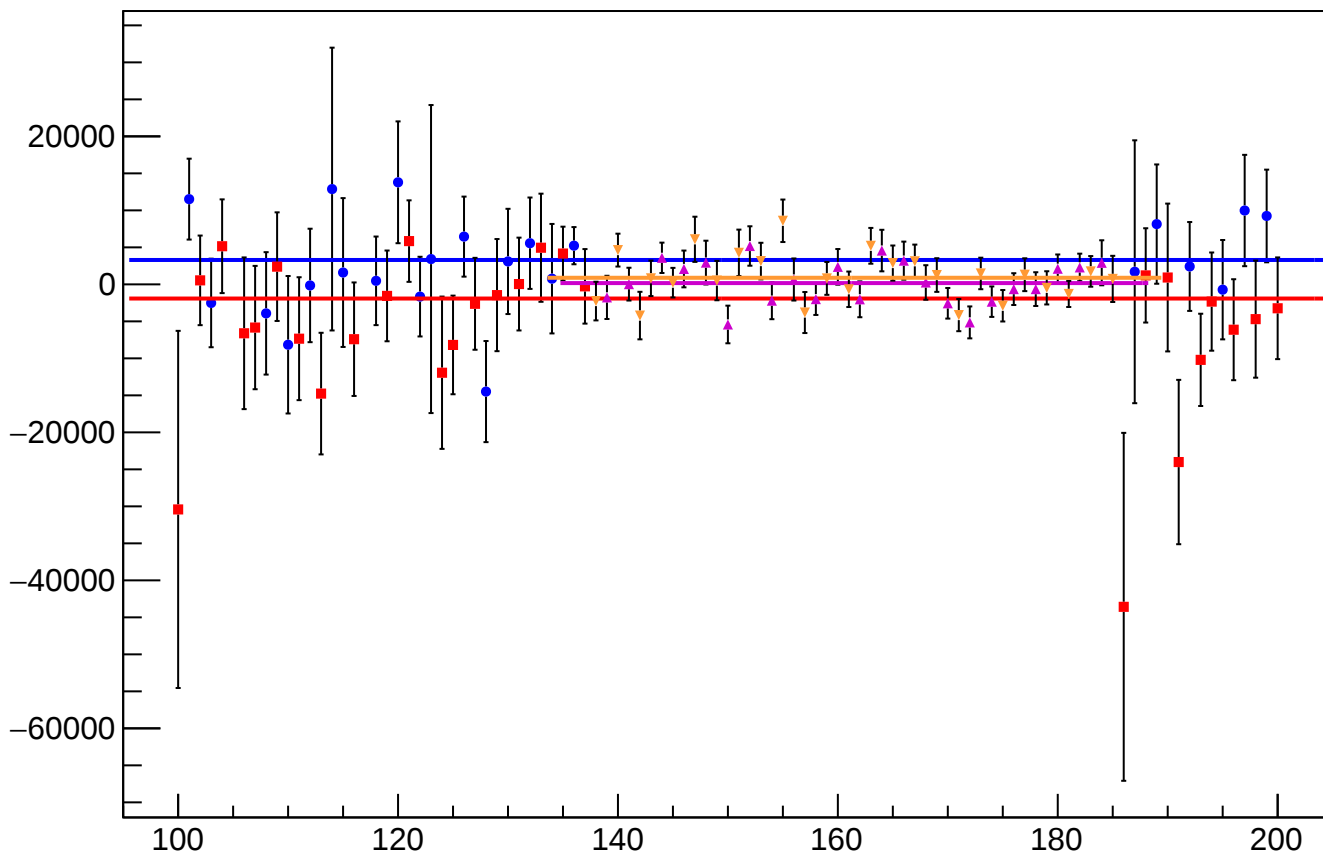
Right: 441.559+/-0.069 χ^2/NDF : 5297911.7/50

In: 363.822+/-0.050 χ^2/NDF : 3564376.8/45

Out: 372.517+/-0.049 χ^2/NDF : 4524942.9/52

All: 368.290+/-0.035 χ^2/NDF : 8104651.4/98

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3295.215+/-1305.481 χ^2/NDF : 19.1/22

Left Out: 890.395+/-473.262 χ^2/NDF : 38.0/24

Right Out: -1914.938+/-1303.304 χ^2/NDF : 24.4/27

Left In: 172.391+/-488.067 χ^2/NDF : 33.2/22

Left: 542.448+/-339.760 χ^2/NDF : 72.3/47

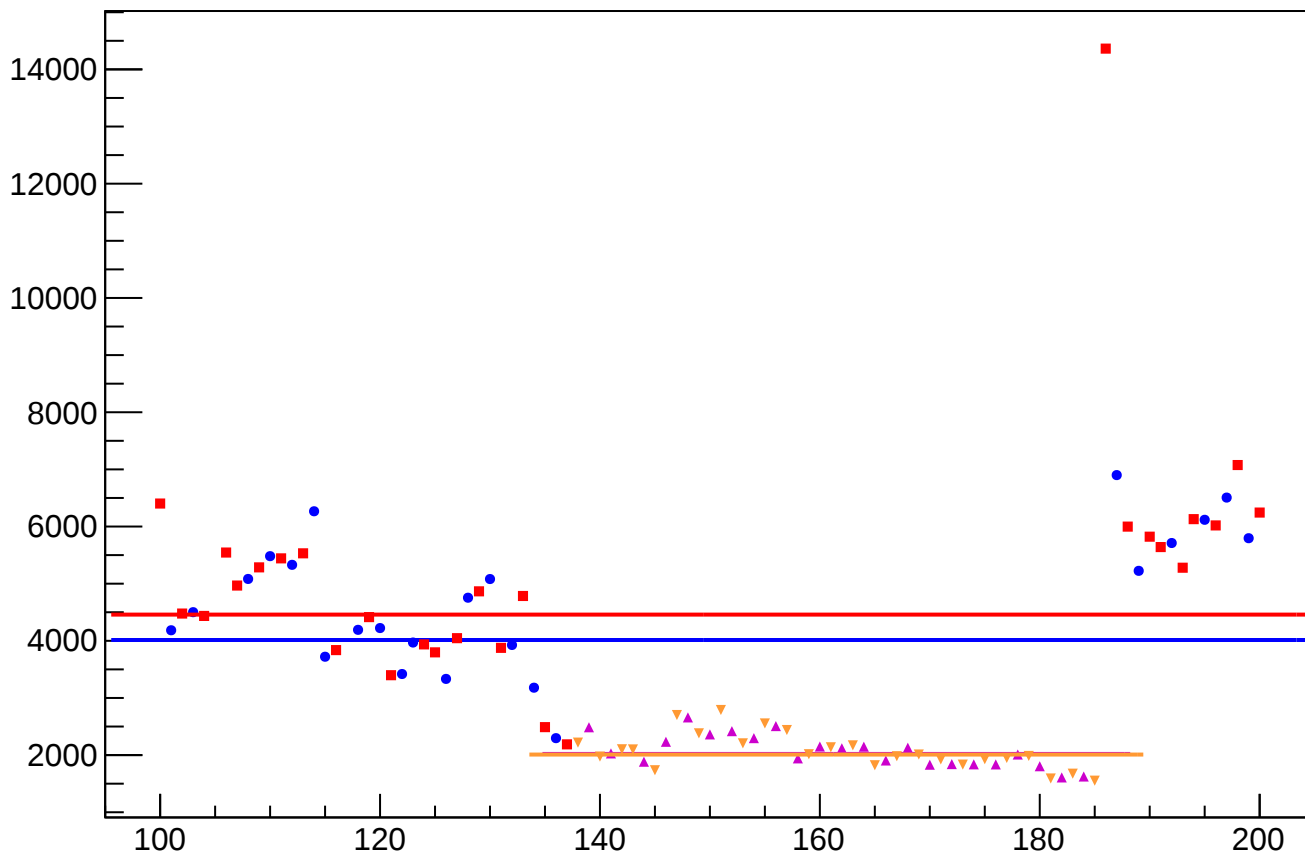
Right: 685.791+/-922.344 χ^2/NDF : 51.5/50

In: 555.346+/-457.163 χ^2/NDF : 57.3/45

Out: 563.579+/-444.842 χ^2/NDF : 66.5/52

All: 559.575+/-318.817 χ^2/NDF : 123.8/98

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4014.284 $\pm$ 0.923 χ^2 /NDF: 2110765.8/22

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4458.764 $\pm$ 0.922 χ^2 /NDF: 2425327.5/27

Left In: 2020.365 $\pm$ 0.345 χ^2 /NDF: 573483.0/22

Left: 2014.833 $\pm$ 0.240 χ^2 /NDF: 1283959.2/47

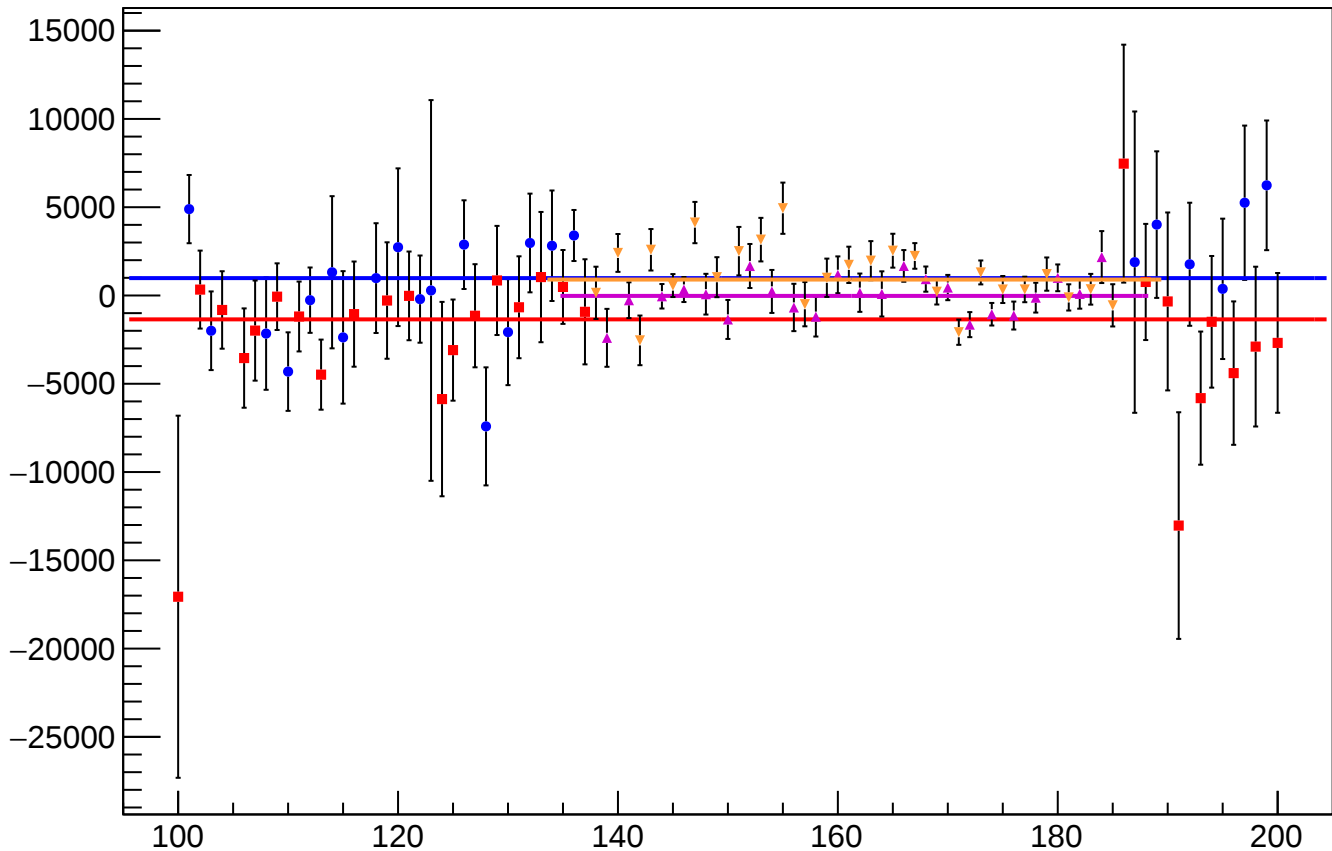
Right: 4236.895 $\pm$ 0.652 χ^2 /NDF: 4652208.4/50

In: 2264.882 $\pm$ 0.323 χ^2 /NDF: 6777666.1/45

Out: 2294.951 $\pm$ 0.315 χ^2 /NDF: 9375108.5/52

All: 2280.327 $\pm$ 0.225 χ^2 /NDF: 16157218.9/95

asym_sam3_mean vs Slug, Sign Corrected



Right In: 984.098 ± 584.768 $\chi^2/\text{NDF}: 29.4/22$

Left Out: 902.091 ± 185.850 $\chi^2/\text{NDF}: 63.5/24$

Right Out: -1352.977 ± 556.281 $\chi^2/\text{NDF}: 17.5/27$

Left In: -23.529 ± 188.137 $\chi^2/\text{NDF}: 28.2/22$

Left: 444.940 ± 132.217 $\chi^2/\text{NDF}: 104.0/47$

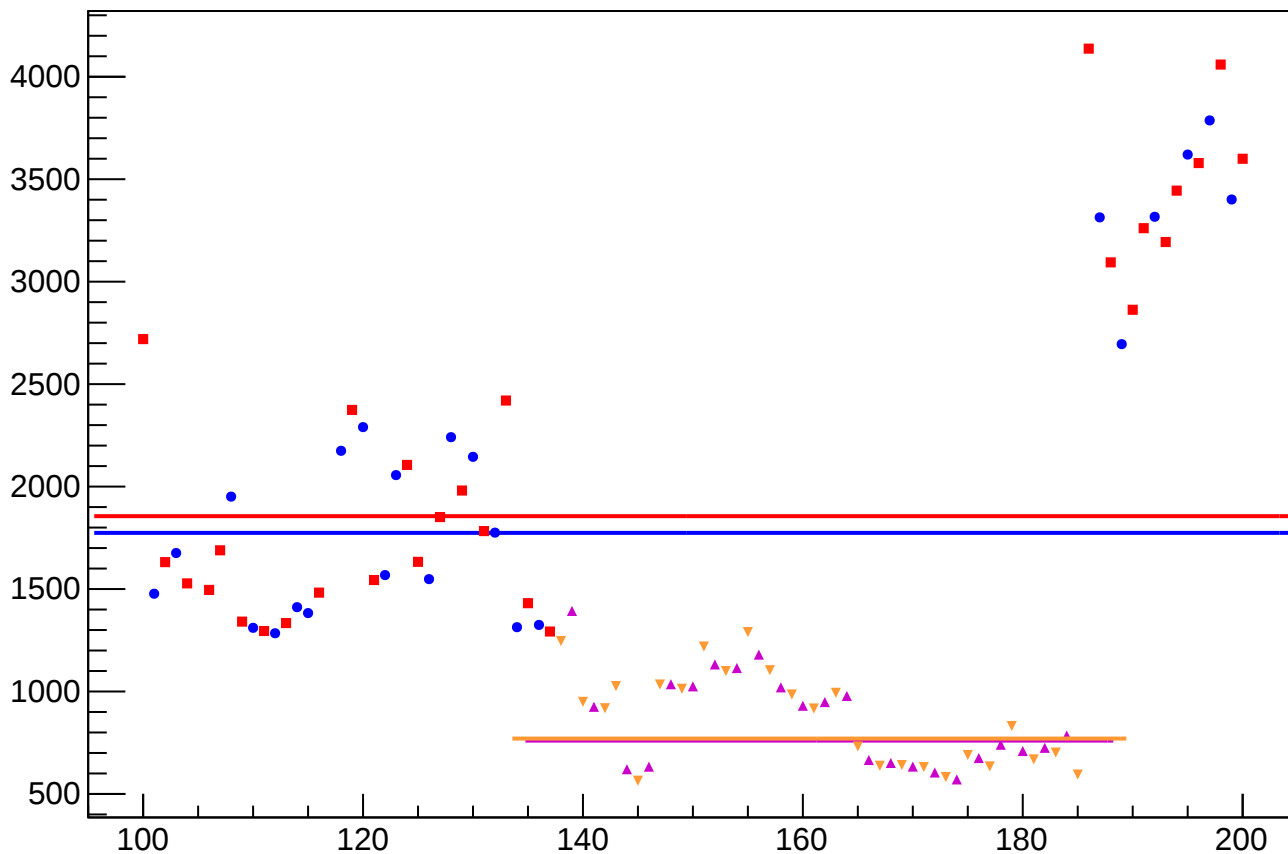
Right: -242.750 ± 403.045 $\chi^2/\text{NDF}: 55.2/50$

In: 70.986 ± 179.096 $\chi^2/\text{NDF}: 60.3/45$

Out: 675.658 ± 176.273 $\chi^2/\text{NDF}: 95.8/52$

All: 378.125 ± 125.630 $\chi^2/\text{NDF}: 161.9/98$

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1774.078+/-0.413 χ^2/NDF : 2520952.9/22

Left Out: 770.320+/-0.131 χ^2/NDF : 2287655.1/24

Right Out: 1855.678+/-0.393 χ^2/NDF : 3425798.5/27

Left In: 760.352+/-0.133 χ^2/NDF : 1986749.8/22

Left: 765.397+/-0.093 χ^2/NDF : 4277246.5/47

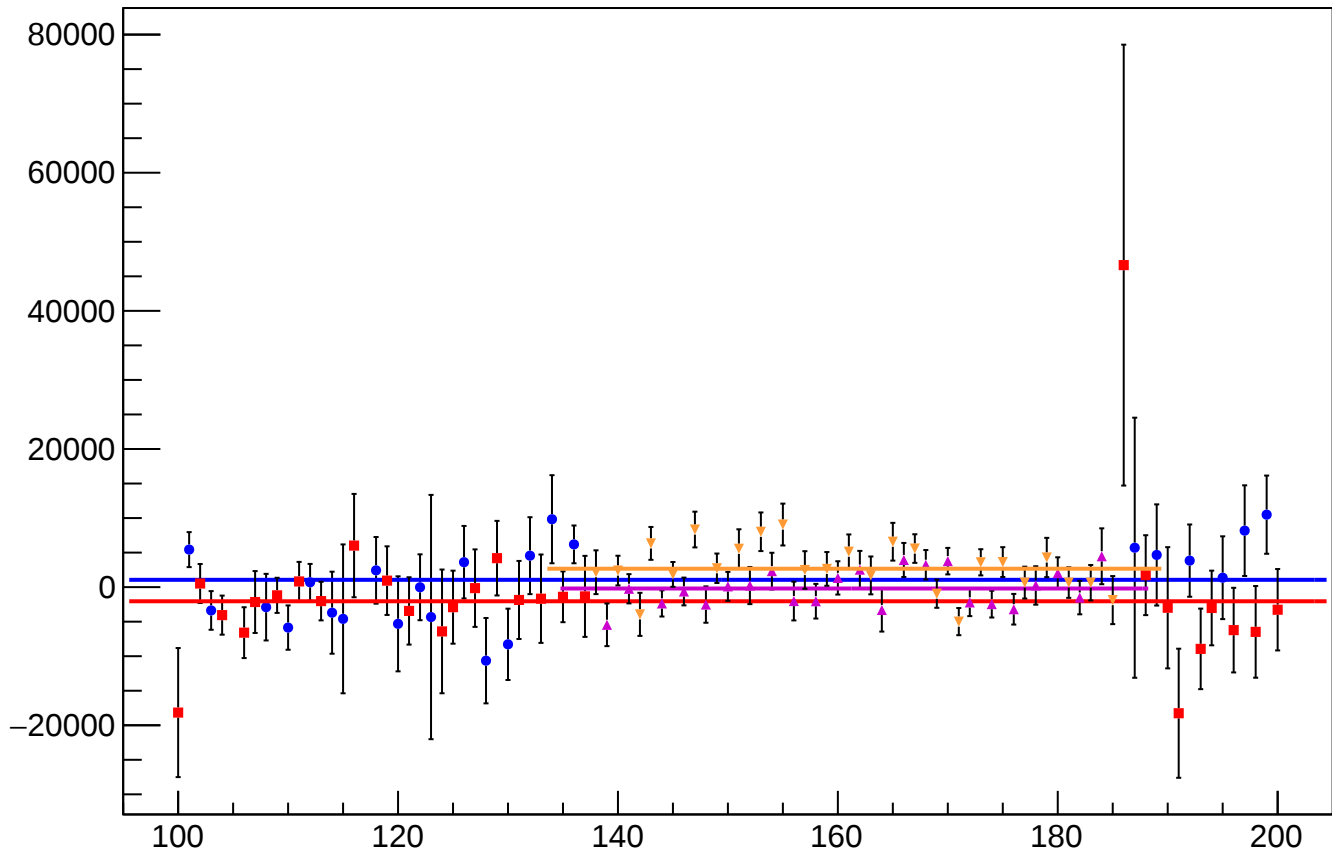
Right: 1816.914+/-0.285 χ^2/NDF : 5967195.5/50

In: 855.439+/-0.127 χ^2/NDF : 9954330.2/45

Out: 879.302+/-0.125 χ^2/NDF : 12562527.2/52

All: 867.560+/-0.089 χ^2/NDF : 22534891.9/98

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1058.560 $\pm$ 934.865 χ^2/NDF : 30.3/22

Left Out: 2665.587 $\pm$ 479.773 χ^2/NDF : 49.2/24

Right Out: -2047.046 $\pm$ 856.277 χ^2/NDF : 18.5/27

Left In: -199.371 $\pm$ 492.082 χ^2/NDF : 25.8/22

Left: 1269.388 $\pm$ 343.520 χ^2/NDF : 92.4/47

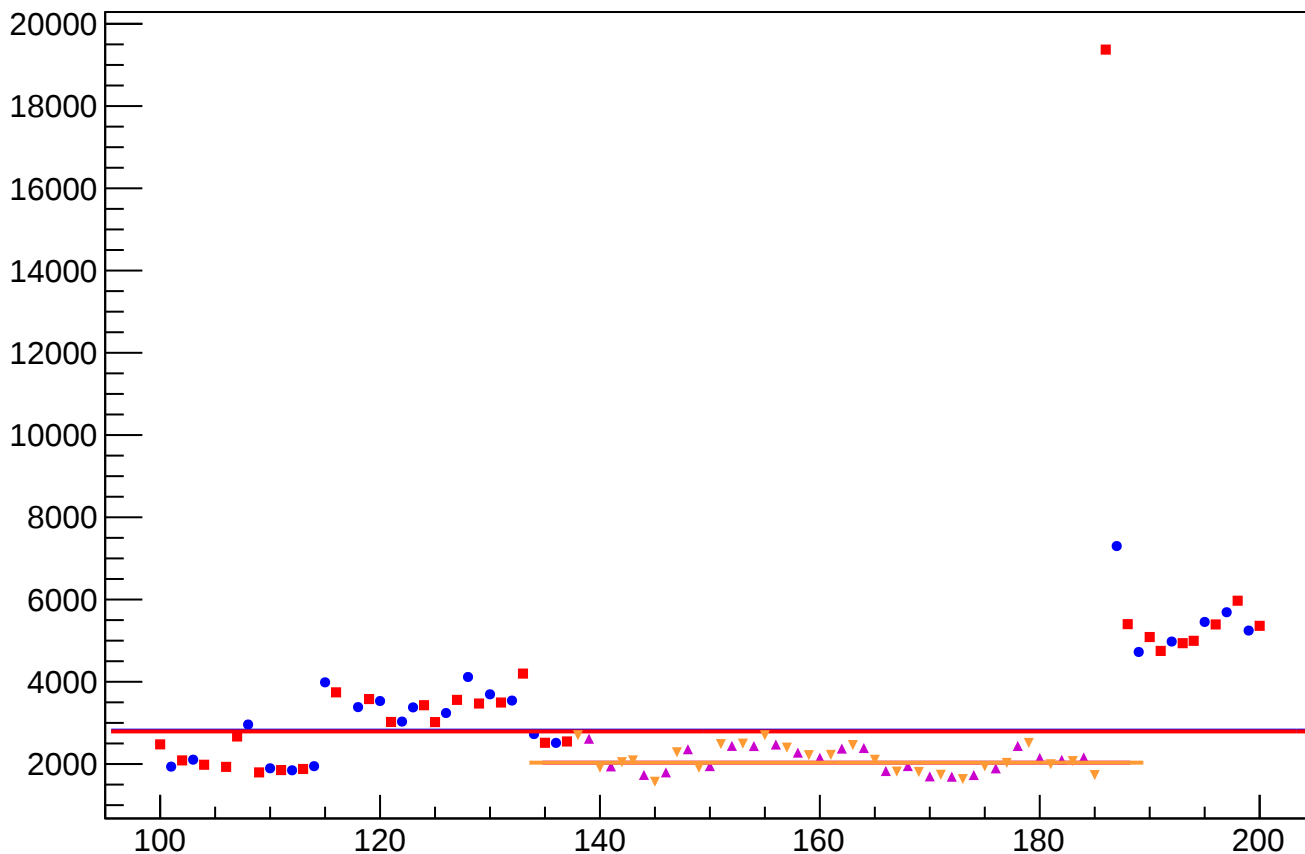
Right: -630.242 $\pm$ 631.438 χ^2/NDF : 54.8/50

In: 73.541 $\pm$ 435.443 χ^2/NDF : 57.5/45

Out: 1539.603 $\pm$ 418.551 χ^2/NDF : 90.8/52

All: 835.559 $\pm$ 301.755 χ^2/NDF : 154.1/98

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2811.816+/-0.661 χ^2/NDF : 2872864.1/22

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 2792.768+/-0.605 χ^2/NDF : 4429395.1/27

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

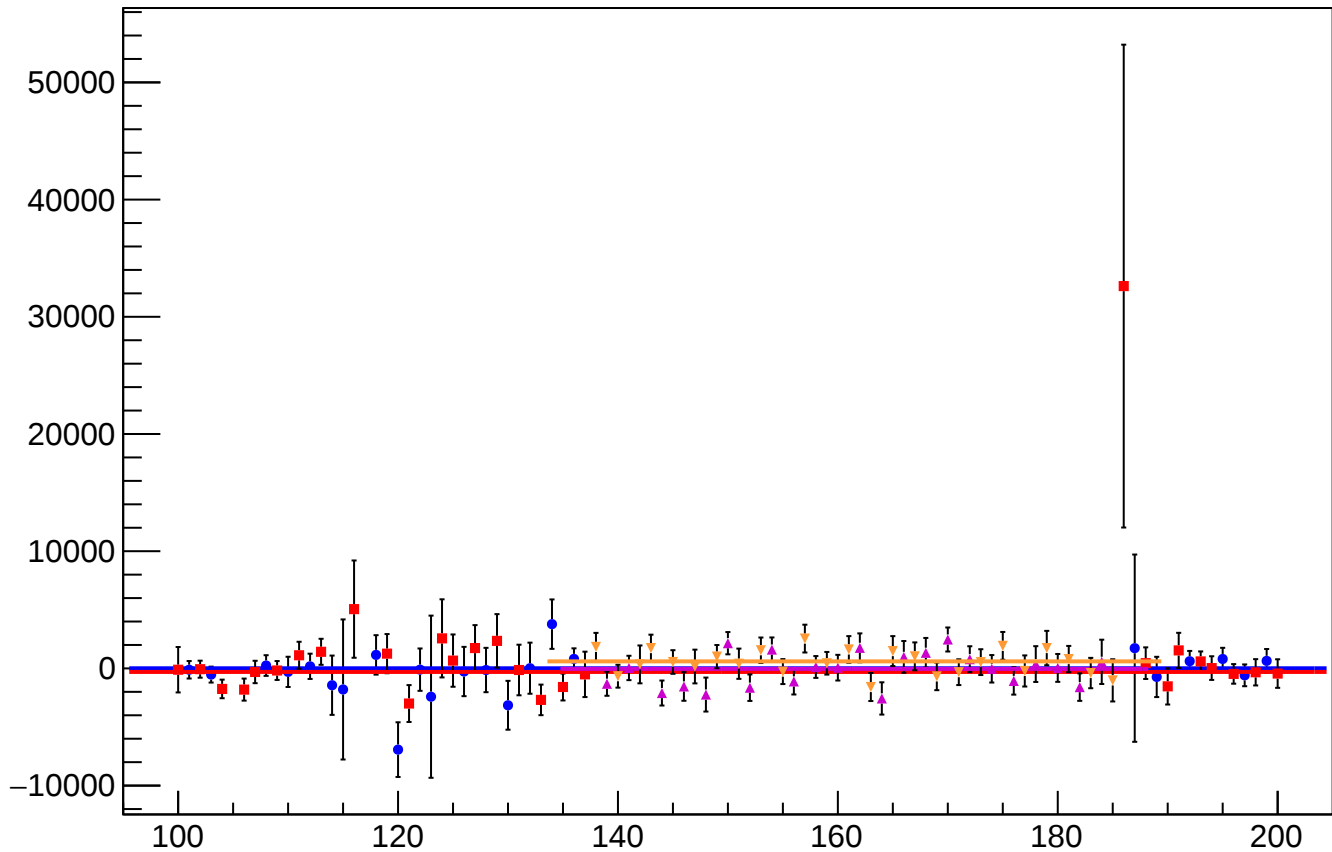
Right: 2801.458+/-0.446 χ^2/NDF : 7302710.8/50

In: 2201.696+/-0.308 χ^2/NDF : 4613495.0/45

Out: 2214.787+/-0.296 χ^2/NDF : 6450756.9/52

All: 2208.500+/-0.213 χ^2/NDF : 11065191.4/95

asym_sam5_mean vs Slug, Sign Corrected



Right In: 9.894 ± 257.716 χ^2/NDF : 19.2/22

Left Out: 600.005 ± 234.968 χ^2/NDF : 18.5/24

Right Out: -301.066 ± 228.509 χ^2/NDF : 29.7/27

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

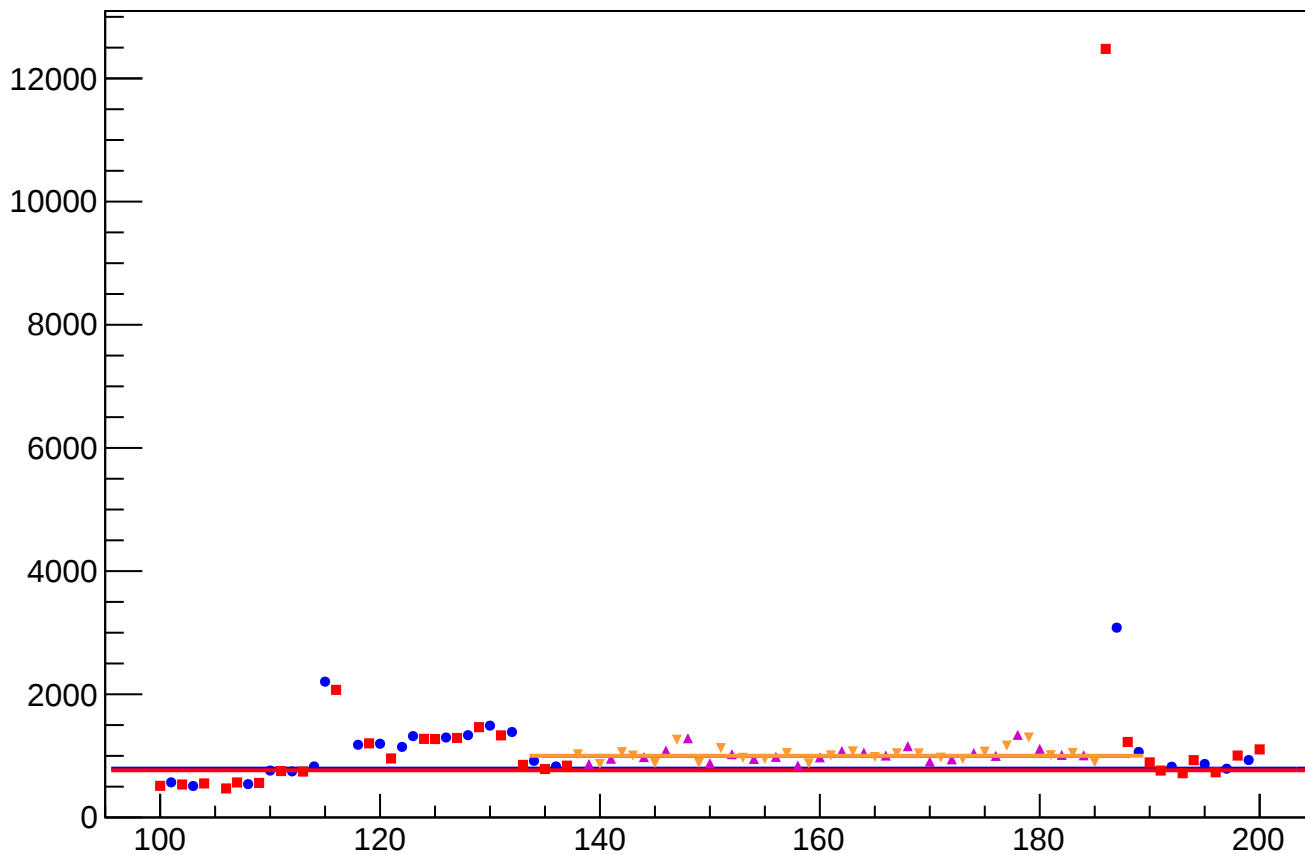
Right: -164.198 ± 170.978 χ^2/NDF : 49.7/50

In: -17.576 ± 175.951 χ^2/NDF : 55.6/45

Out: 136.915 ± 163.816 χ^2/NDF : 55.7/52

All: 65.180 ± 119.896 χ^2/NDF : 111.7/98

asym_sam5_rms vs Slug, Sign Corrected



Right In: 792.469+/-0.182 χ^2/NDF : 1986592.3/22

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 766.119+/-0.162 χ^2/NDF : 2992405.0/27

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

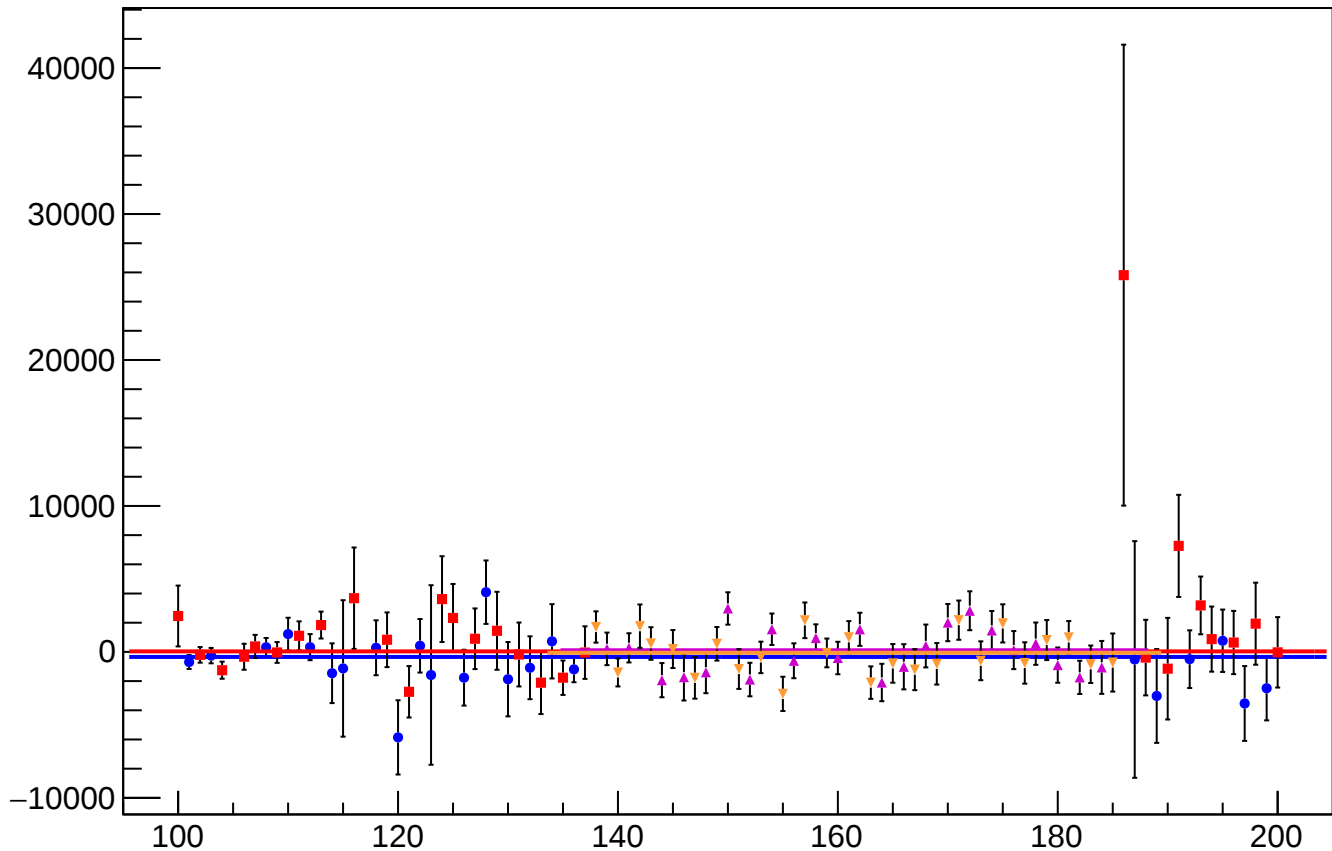
Right: 777.717+/-0.121 χ^2/NDF : 4990702.8/50

In: 902.224+/-0.124 χ^2/NDF : 3070697.1/45

Out: 880.516+/-0.116 χ^2/NDF : 4393941.7/52

All: 890.596+/-0.085 χ^2/NDF : 7480946.5/98

asym_sam6_mean vs Slug, Sign Corrected



Right In: -345.097+/-243.554 χ^2/NDF : 19.3/22

Left Out: -59.827+/-246.503 χ^2/NDF : 31.0/24

Right Out: 35.503+/-237.141 χ^2/NDF : 32.1/27

Left In: 112.398+/-255.409 χ^2/NDF : 34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

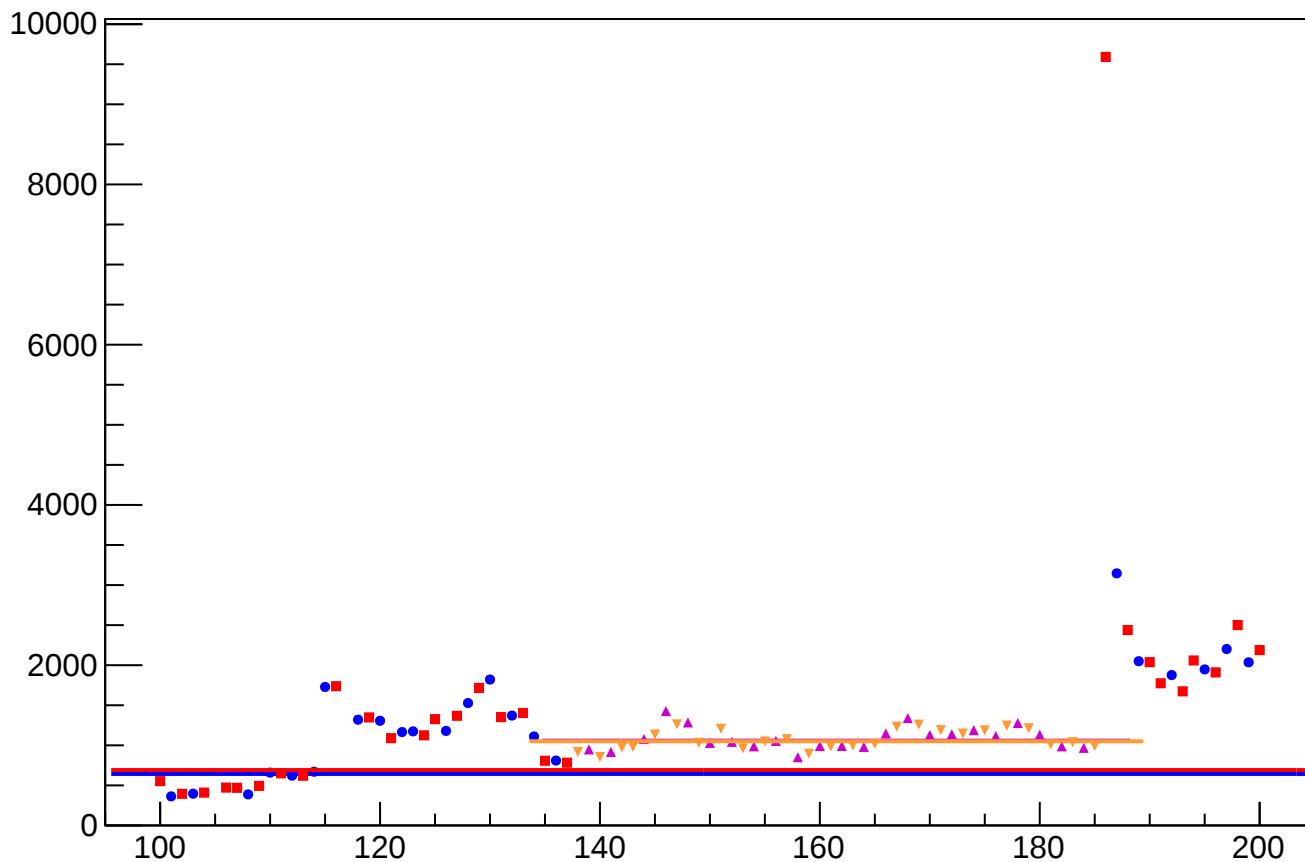
Right: -149.720+/-169.906 χ^2/NDF : 52.6/50

In: -127.213+/-176.261 χ^2/NDF : 55.9/45

Out: -10.317+/-170.898 χ^2/NDF : 63.1/52

All: -66.960+/-122.695 χ^2/NDF : 119.2/98

asym_sam6_rms vs Slug, Sign Corrected



Right In: 643.012 $\pm$ 0.172 χ^2 /NDF: 7061605.3/22

Left Out: 1050.649 $\pm$ 0.174 χ^2 /NDF: 483144.2/24

Right Out: 691.548 $\pm$ 0.168 χ^2 /NDF: 8708274.6/27

Left In: 1058.097 $\pm$ 0.181 χ^2 /NDF: 528574.7/22

Left: 1054.241 $\pm$ 0.125 χ^2 /NDF: 1012599.4/47

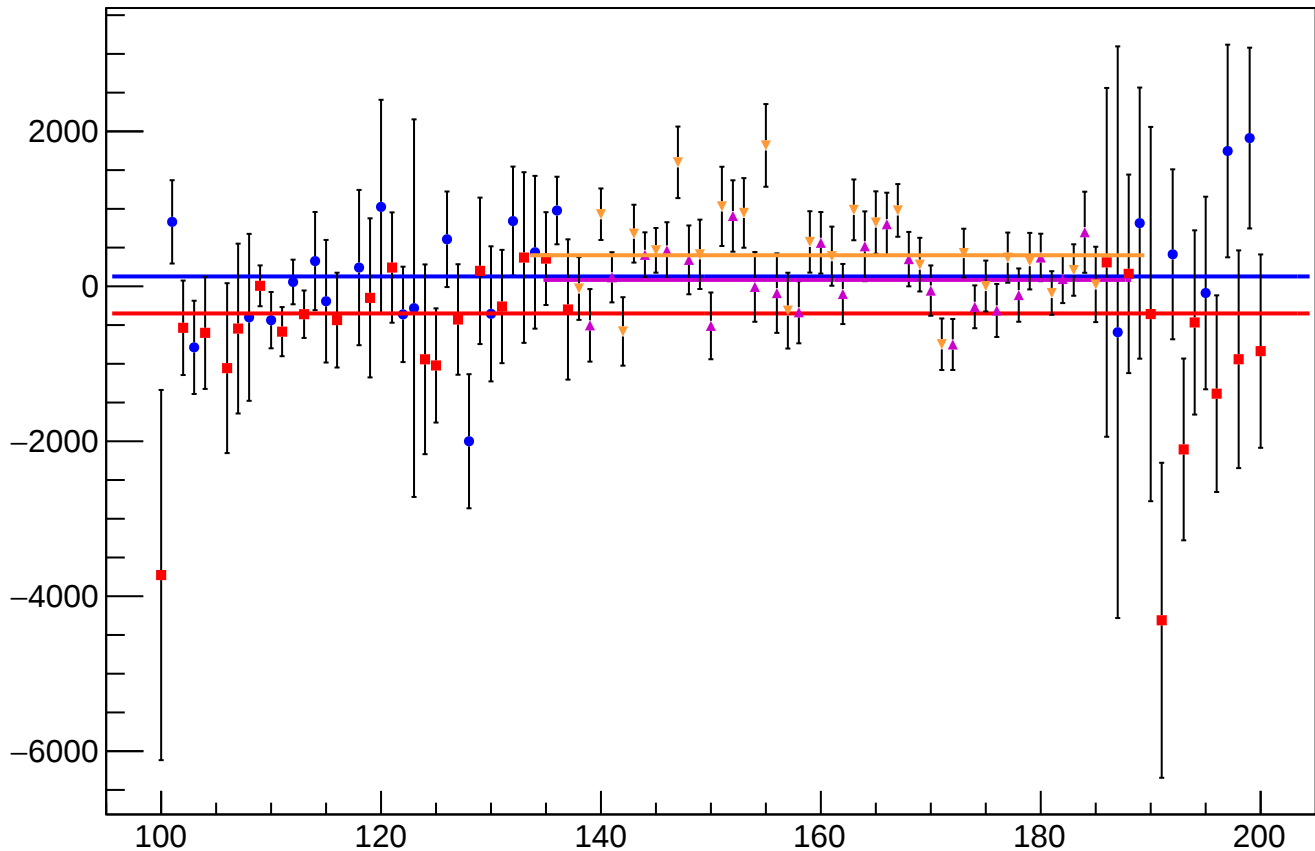
Right: 667.928 $\pm$ 0.120 χ^2 /NDF: 15810652.1/50

In: 840.698 $\pm$ 0.125 χ^2 /NDF: 10356806.1/45

Out: 864.150 $\pm$ 0.121 χ^2 /NDF: 11395762.1/52

All: 852.786 $\pm$ 0.087 χ^2 /NDF: 21770817.4/98

asym_sam7_mean vs Slug, Sign Corrected



Right In: 127.563 $\pm$ 138.859 χ^2 /NDF: 24.0/22

Left Out: 400.988 $\pm$ 74.546 χ^2 /NDF:52.1/24

Right Out: -349.963 $\pm$ 125.231 χ^2 /NDF: 16.3/27

Left In: 82.890 $\pm$ 76.904 χ^2 /NDF:29.0/22

Left: 246.889 $\pm$ 53.526 χ^2 /NDF: 89.9/47

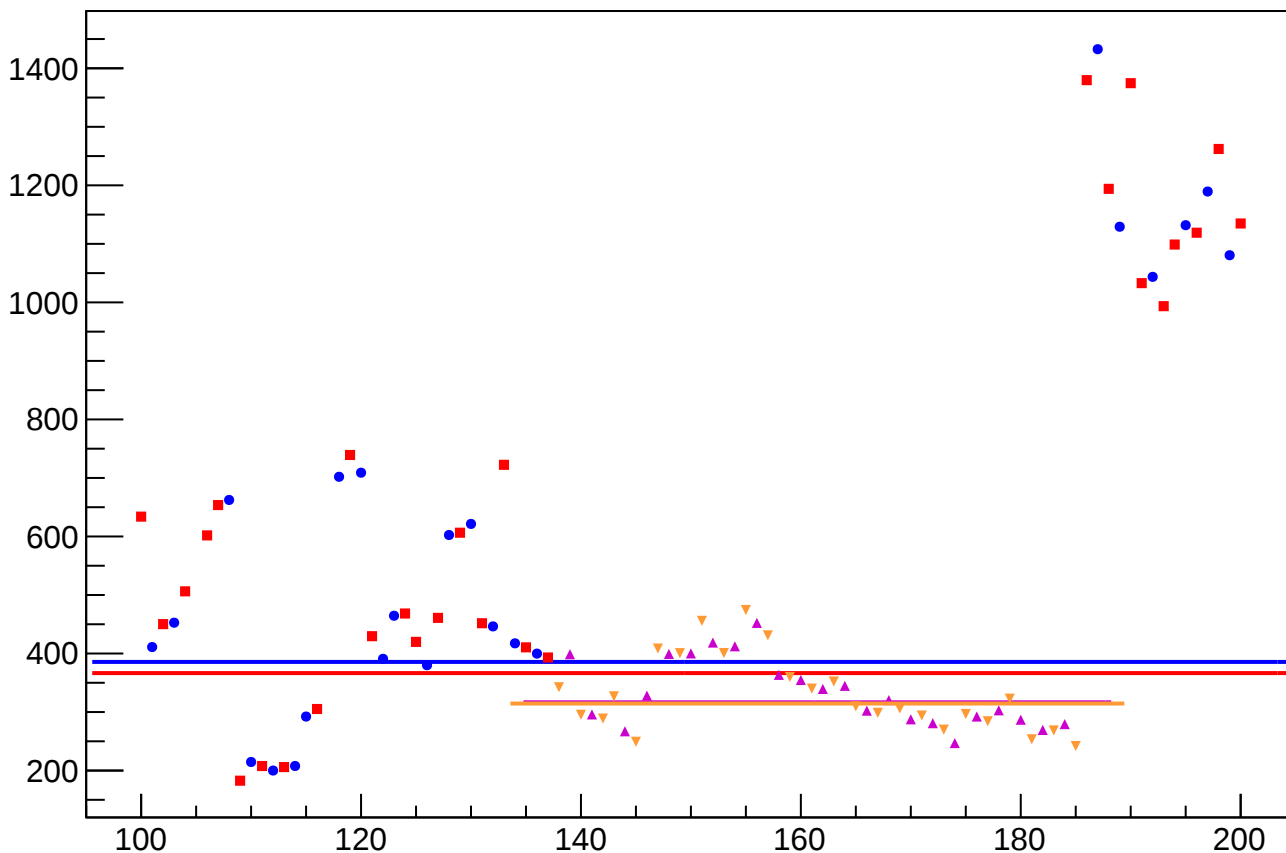
Right: -135.777 $\pm$ 92.997 χ^2 /NDF: 46.9/50

In: 93.376 $\pm$ 67.275 χ^2 /NDF:53.1/45

Out: 204.511 $\pm$ 64.056 χ^2 /NDF:94.9/52

All: 151.666 $\pm$ 46.391 χ^2 /NDF: 149.5/98

asym_sam7_rms vs Slug, Sign Corrected



Right In: 385.652+/-0.098 χ^2/NDF : 5580962.2/22

Left Out: 314.538+/-0.053 χ^2/NDF : 1112445.6/24

Right Out: 366.559+/-0.089 χ^2/NDF : 8533919.5/27

Left In: 316.647+/-0.054 χ^2/NDF : 920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

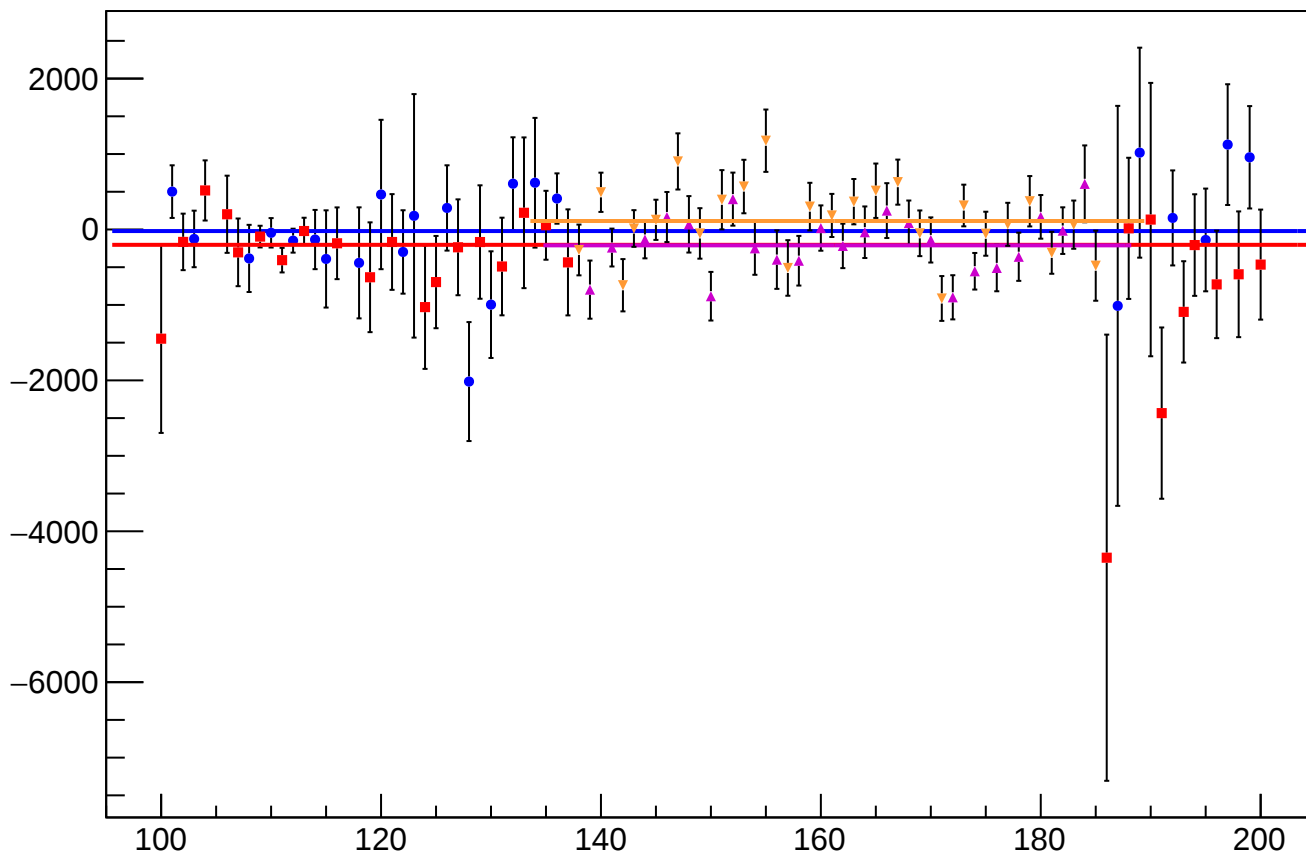
Right: 375.123+/-0.066 χ^2/NDF : 14135733.7/50

In: 332.844+/-0.048 χ^2/NDF : 6879807.6/45

Out: 328.149+/-0.045 χ^2/NDF : 9901181.2/52

All: 330.381+/-0.033 χ^2/NDF : 16786098.8/98

asym_sam8_mean vs Slug, Sign Corrected



Right In: -20.891 $\pm$ 87.489 χ^2/NDF : 21.7/22

Left Out: 112.242 $\pm$ 62.643 χ^2/NDF : 49.1/24

Right Out: -203.401 $\pm$ 74.358 χ^2/NDF : 19.6/27

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

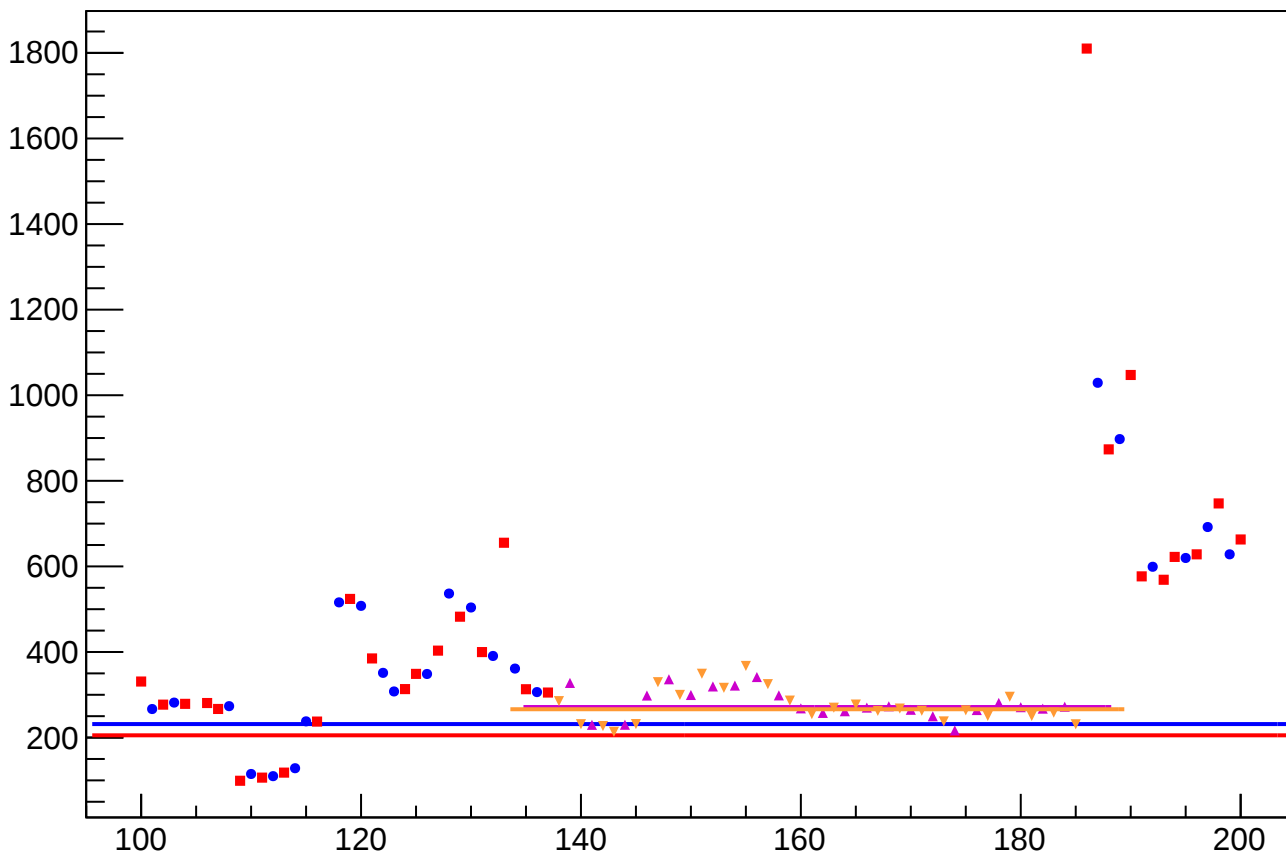
Right: -126.856 $\pm$ 56.659 χ^2/NDF : 43.8/50

In: -142.352 $\pm$ 52.439 χ^2/NDF : 53.8/45

Out: -18.784 $\pm$ 47.908 χ^2/NDF : 79.2/52

All: -75.001 $\pm$ 35.370 χ^2/NDF : 136.1/98

asym_sam8_rms vs Slug, Sign Corrected



Right In: 231.562+/-0.062 χ^2/NDF : 6936359.6/22

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 205.272+/-0.053 χ^2/NDF : 10415238.8/27

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

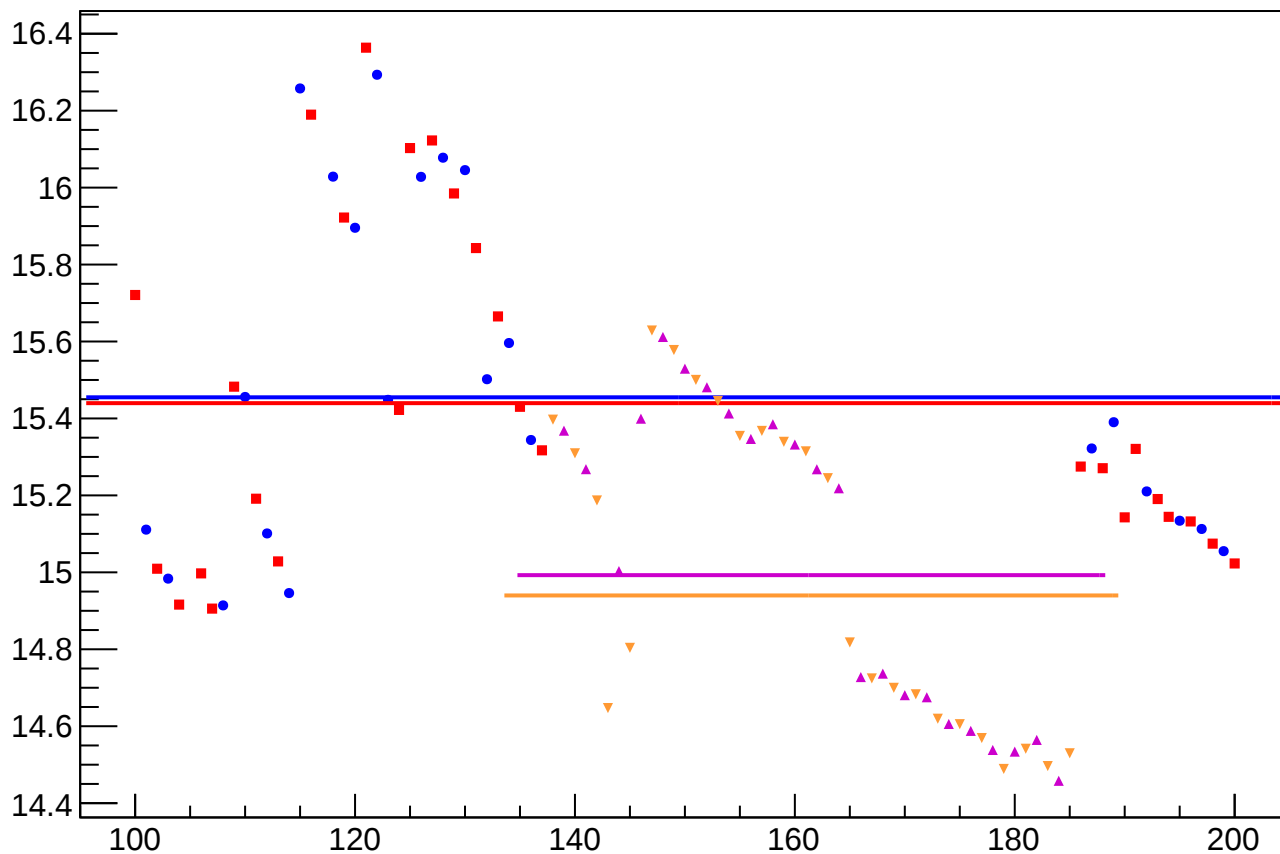
Right: 216.298+/-0.040 χ^2/NDF : 17456449.7/50

In: 257.098+/-0.037 χ^2/NDF : 7724143.9/45

Out: 240.913+/-0.034 χ^2/NDF : 11850421.9/52

All: 248.276+/-0.025 χ^2/NDF : 19678413.2/98

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.455 $\pm$ 0.000 χ^2 /NDF: 8781140311.7/22

Left Out: 14.940 $\pm$ 0.000 χ^2 /NDF: 24199653913.9/24

Right Out: 15.440 $\pm$ 0.000 χ^2 /NDF: 9519988903.9/27

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

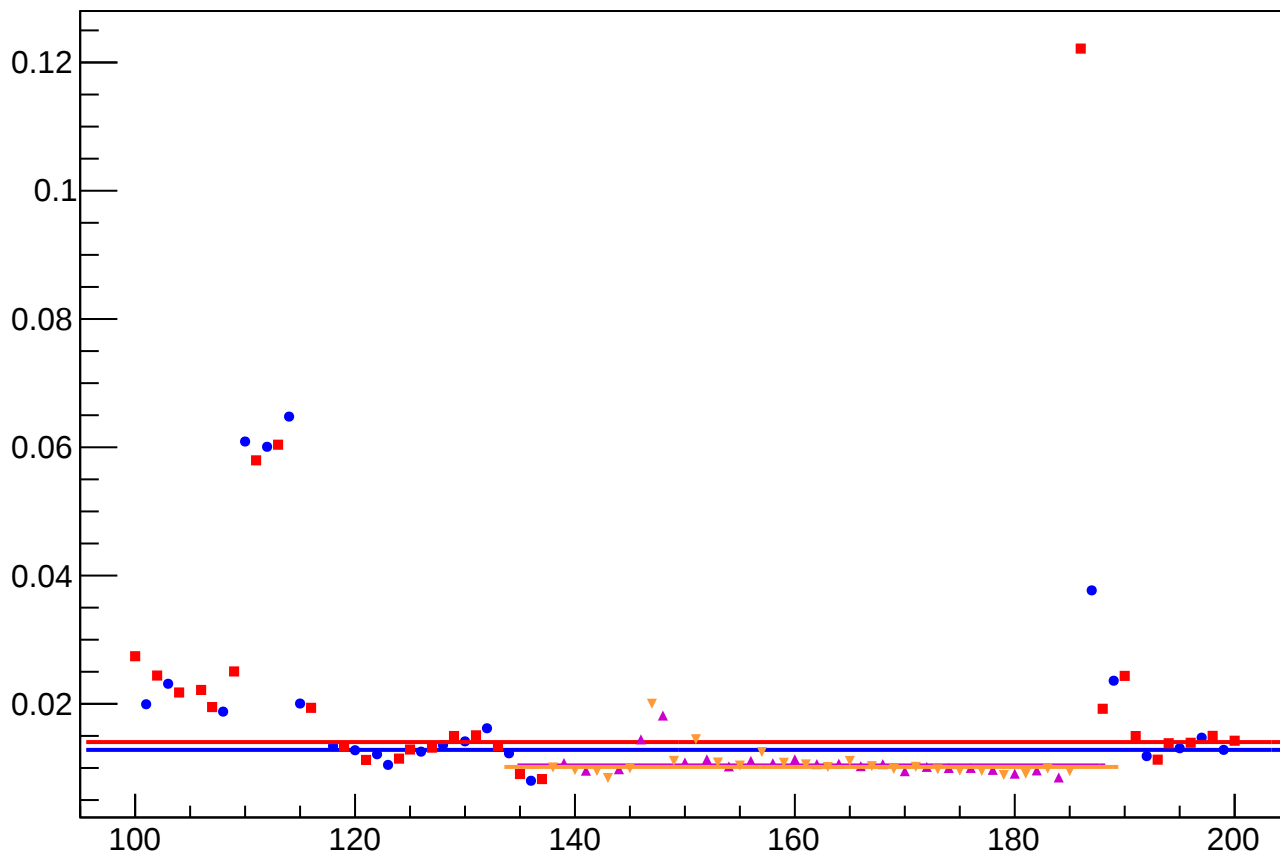
Right: 15.447 $\pm$ 0.000 χ^2 /NDF: 18307345839.1/50

In: 15.113 $\pm$ 0.000 χ^2 /NDF: 39278954489.8/45

Out: 15.062 $\pm$ 0.000 χ^2 /NDF: 43954314641.3/52

All: 15.087 $\pm$ 0.000 χ^2 /NDF: 83509222864.2

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2483916.6/22

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2981135.2/27

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

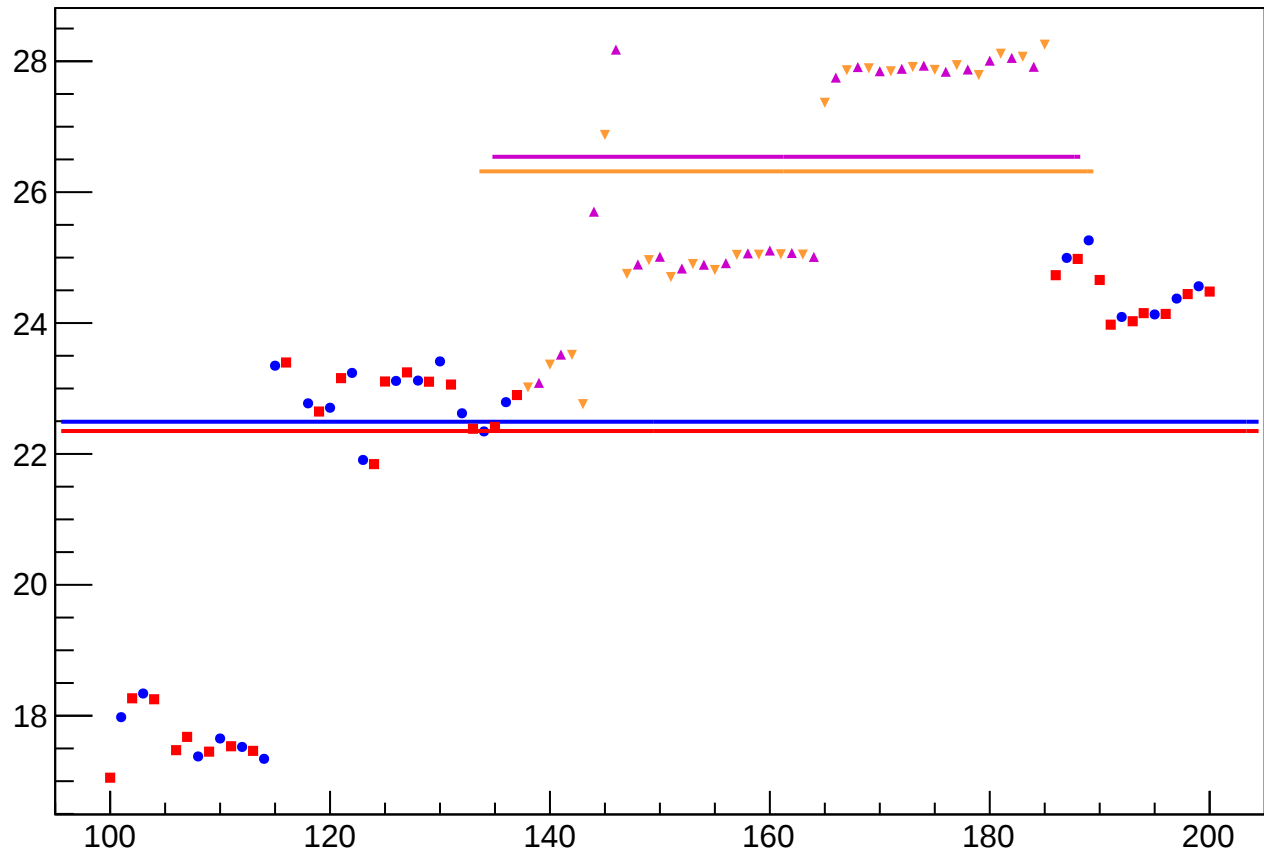
Right: 0.013+/-0.000 χ^2/NDF : 5545055.1/50

In: 0.011+/-0.000 χ^2/NDF : 3494329.0/45

Out: 0.011+/-0.000 χ^2/NDF : 4929314.5/52

All: 0.011+/-0.000 χ^2/NDF : 8425124.4/98

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.492+/-0.000 χ^2/NDF : 1076317284.5/22

Left Out: 26.318+/-0.000 χ^2/NDF : 4715403741.0/24

Right Out: 22.350+/-0.000 χ^2/NDF : 1312979156.0/27

Left In: 26.540+/-0.000 χ^2/NDF : 3309392772.6/22

Left: 26.424+/-0.000 χ^2/NDF : 8058273722.3/47

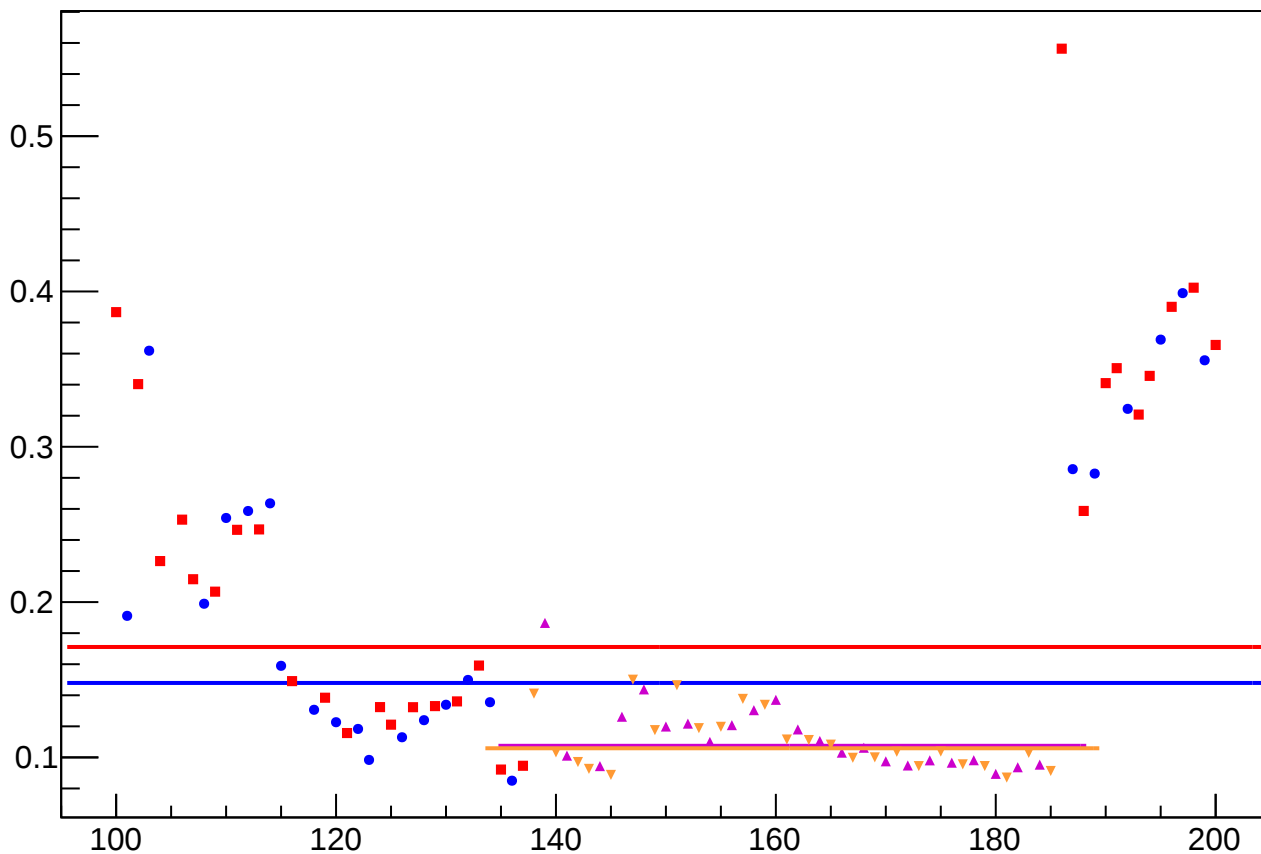
Right: 22.423+/-0.000 χ^2/NDF : 2392654008.2/50

In: 25.692+/-0.000 χ^2/NDF : 8832224344.9/45

Out: 25.577+/-0.000 χ^2/NDF : 10171558313.3/52

All: 25.633+/-0.000 χ^2/NDF : 19014967411.7

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.148 $\pm$ 0.000 χ^2/NDF : 4288053.8/22

Left Out: 0.106 $\pm$ 0.000 χ^2/NDF : 732883.8/24

Right Out: 0.171 $\pm$ 0.000 χ^2/NDF : 4999073.4/27

Left In: 0.107 $\pm$ 0.000 χ^2/NDF : 771132.0/22

Left: 0.107 $\pm$ 0.000 χ^2/NDF : 1507414.2/47

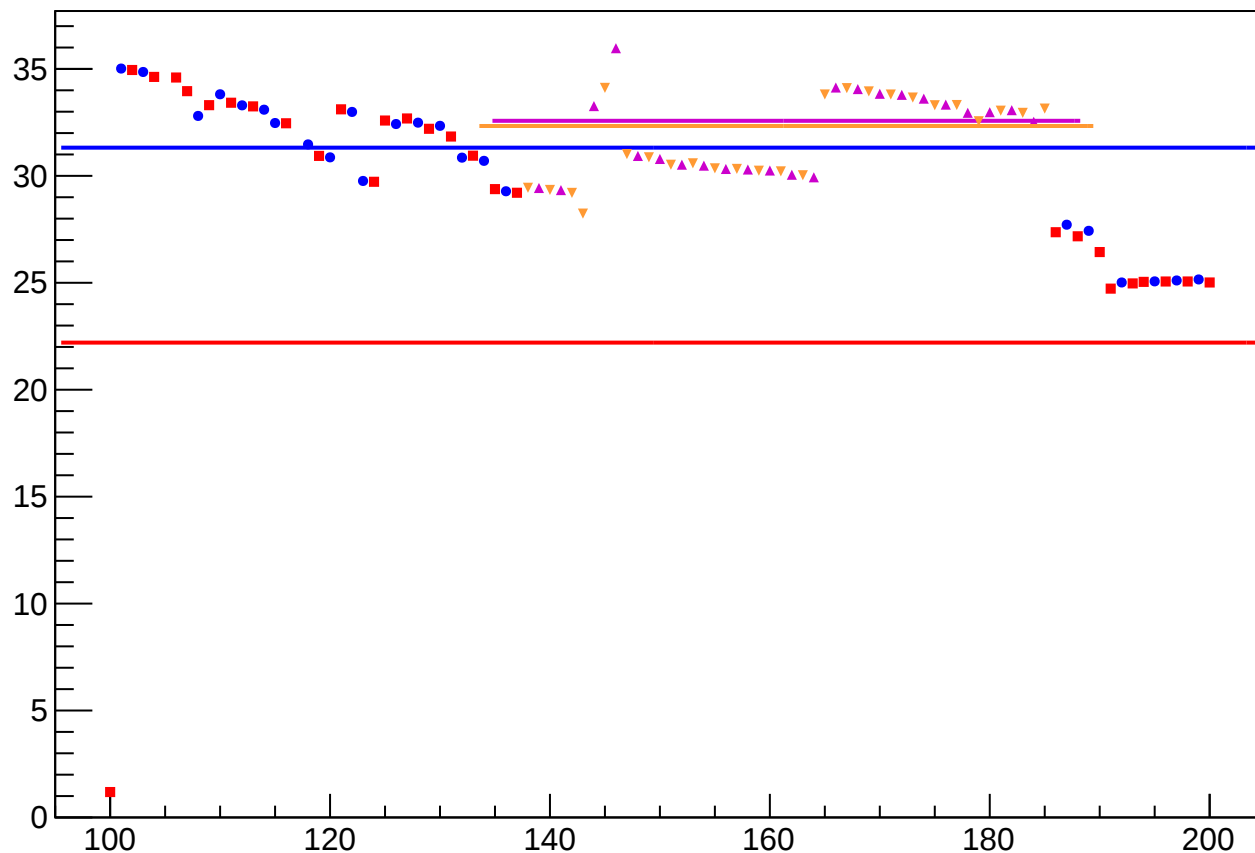
Right: 0.159 $\pm$ 0.000 χ^2/NDF : 9465808.0/50

In: 0.116 $\pm$ 0.000 χ^2/NDF : 5948196.3/45

Out: 0.118 $\pm$ 0.000 χ^2/NDF : 7971251.0/52

All: 0.117 $\pm$ 0.000 χ^2/NDF : 13926937.5/98

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.319+/-0.000

χ^2/NDF : 4365985847.0/22

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Right: 25.862+/-0.000

χ^2/NDF : 274431449490.4/50

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

In: 32.364+/-0.000

χ^2/NDF : 17198526138.0/45

Right Out: 22.203+/-0.000

χ^2/NDF : 230855155410.8/27

Out: 30.073+/-0.000

χ^2/NDF : 337403689040.0/52

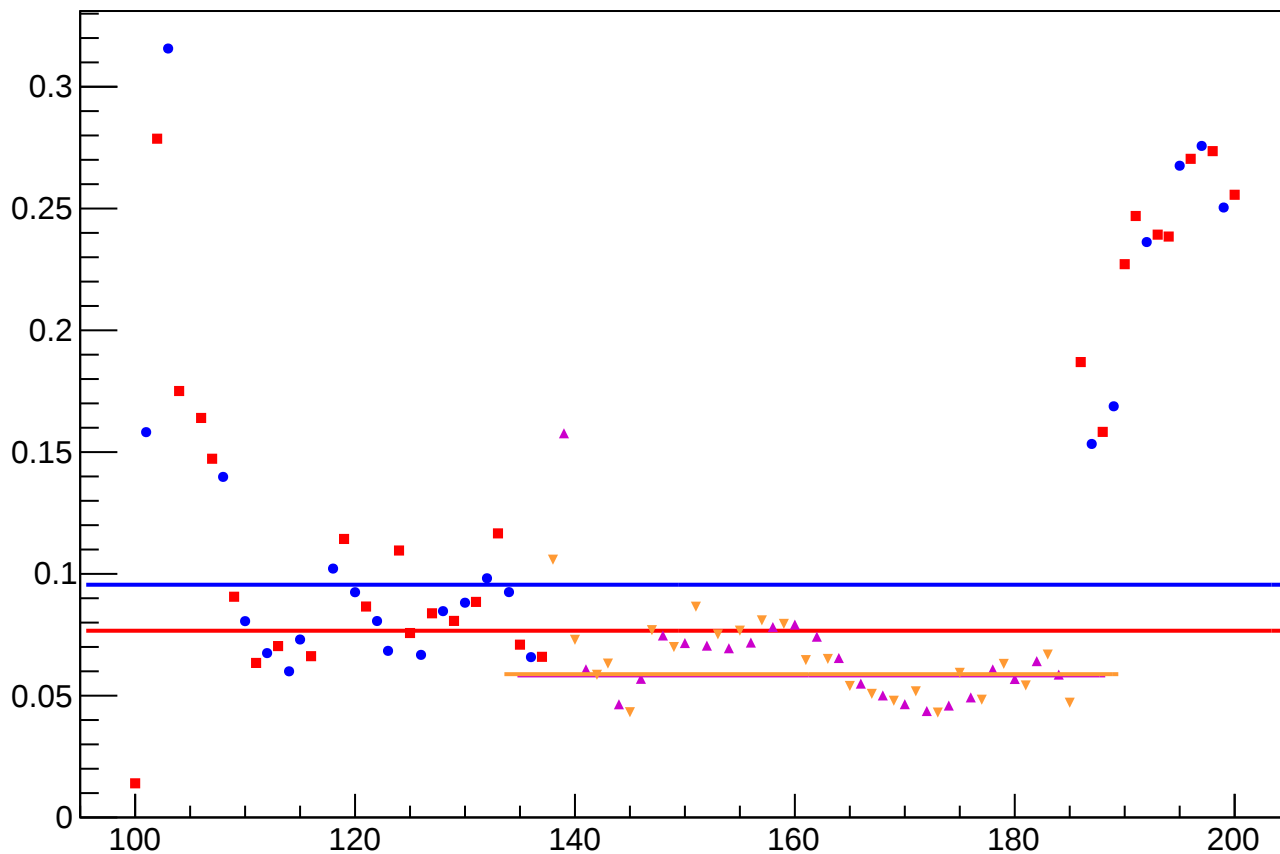
Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

All: 31.154+/-0.000

χ^2/NDF : 367658852379.0/100

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.096 $\pm$ 0.000 χ^2 /NDF: 4194983.2/22

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.077 $\pm$ 0.000 χ^2 /NDF: 9174464.4/27

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

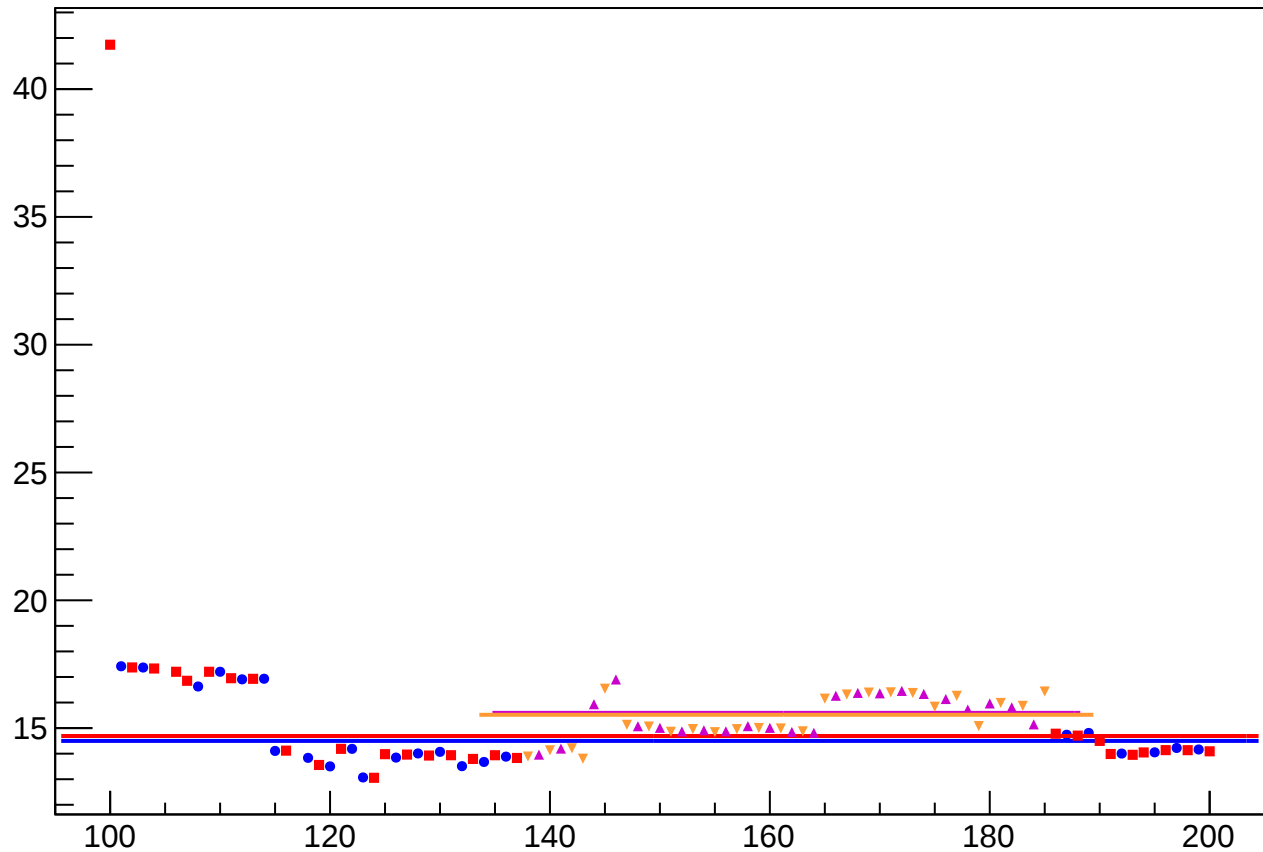
Right: 0.084 $\pm$ 0.000 χ^2 /NDF: 13706055.9/50

In: 0.065 $\pm$ 0.000 χ^2 /NDF:7540183.5/45

Out: 0.063 $\pm$ 0.000 χ^2 /NDF:11158062.2/52

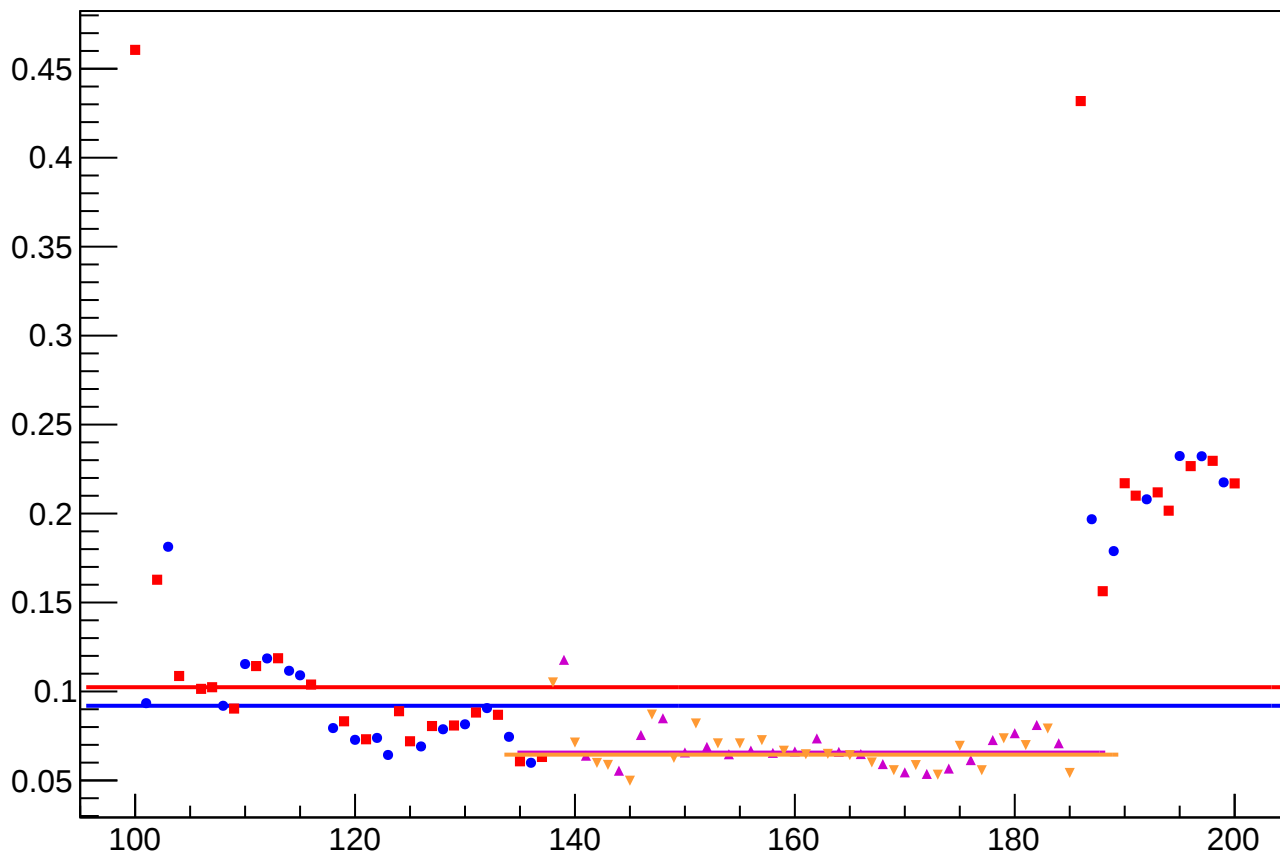
All: 0.064 $\pm$ 0.000 χ^2 /NDF: 18713368.9/98

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.499+/-0.000	χ^2/NDF : 1498618781.1/22	Left: 15.557+/-0.000	χ^2/NDF : 4510008259.4/47
Left Out: 15.521+/-0.000	χ^2/NDF : 2591377740.5/24	Right: 14.595+/-0.000	χ^2/NDF : 3458566634.1/50
Right Out: 14.691+/-0.000	χ^2/NDF : 1942620198.7/27	In: 15.359+/-0.000	χ^2/NDF : 4296193763.6/45
Left In: 15.595+/-0.000	χ^2/NDF : 1908733580.5/22	Out: 15.356+/-0.000	χ^2/NDF : 5048838868.6/52
		All: 15.357+/-0.000	χ^2/NDF : 9345067161.0/9

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.092 $\pm$ 0.000 χ^2 /NDF: 3537783.1/22

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.102 $\pm$ 0.000 χ^2 /NDF: 4322032.9/27

Left In: 0.066 $\pm$ 0.000 χ^2 /NDF: 714703.1/22

Left: 0.065 $\pm$ 0.000 χ^2 /NDF: 1481007.6/47

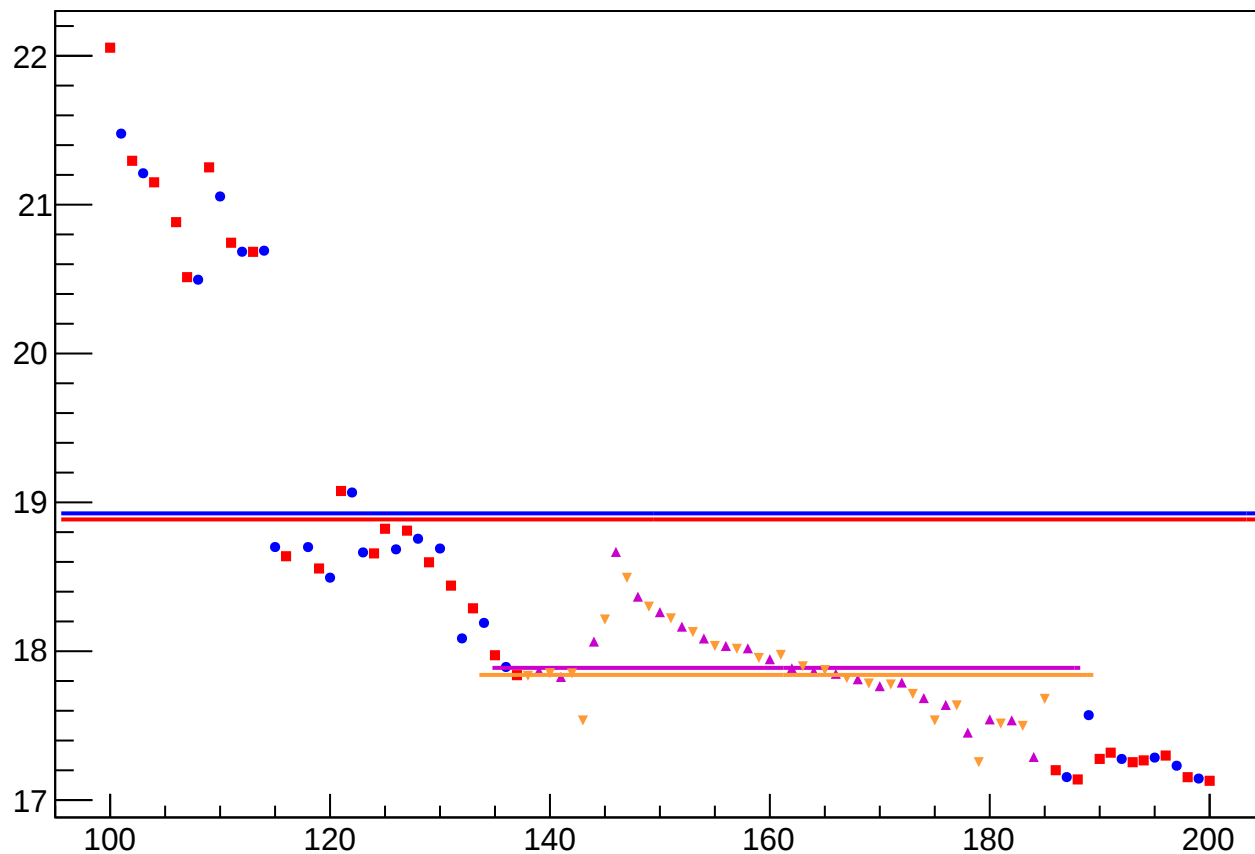
Right: 0.097 $\pm$ 0.000 χ^2 /NDF: 7962011.1/50

In: 0.071 $\pm$ 0.000 χ^2 /NDF: 5276534.6/45

Out: 0.072 $\pm$ 0.000 χ^2 /NDF: 7231692.3/52

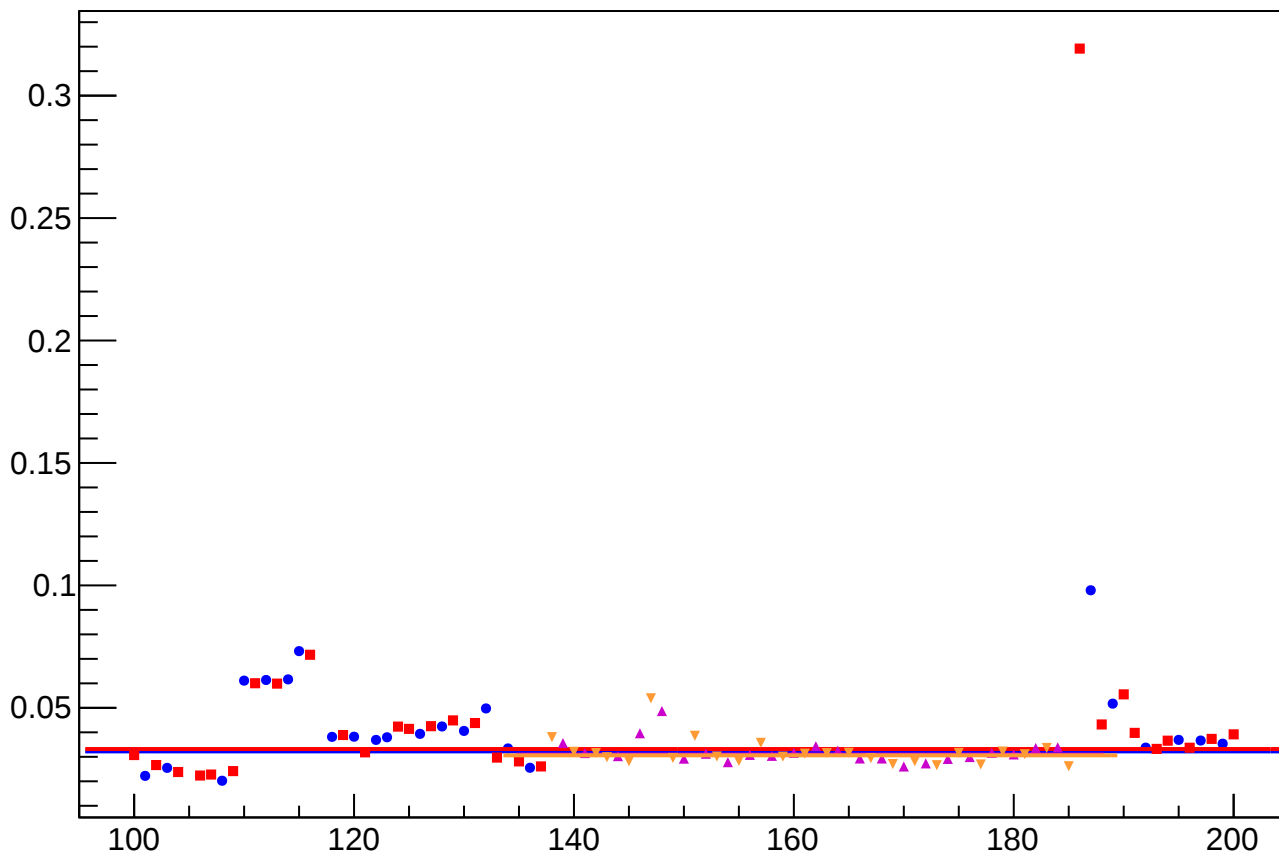
All: 0.072 $\pm$ 0.000 χ^2 /NDF: 12510741.2/98

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.926 $\pm$ 0.000	χ^2 /NDF: 23473391948.5/22	Left: 17.864 $\pm$ 0.000	χ^2 /NDF: 2506375288.6/47
Left Out: 17.841 $\pm$ 0.000	χ^2 /NDF: 1283287989.7/24	Right: 18.904 $\pm$ 0.000	χ^2 /NDF: 51276473517.3/50
Right Out: 18.885 $\pm$ 0.000	χ^2 /NDF: 27795281441.2/27	In: 18.238 $\pm$ 0.000	χ^2 /NDF: 30985120318.6/45
Left In: 17.888 $\pm$ 0.000	χ^2 /NDF: 1203002311.3/22	Out: 18.207 $\pm$ 0.000	χ^2 /NDF: 36193269769.8/52
		All: 18.222 $\pm$ 0.000	χ^2 /NDF: 67192270955.0

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.000 χ^2 /NDF: 1673659.1/22

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 2121843.2/27

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

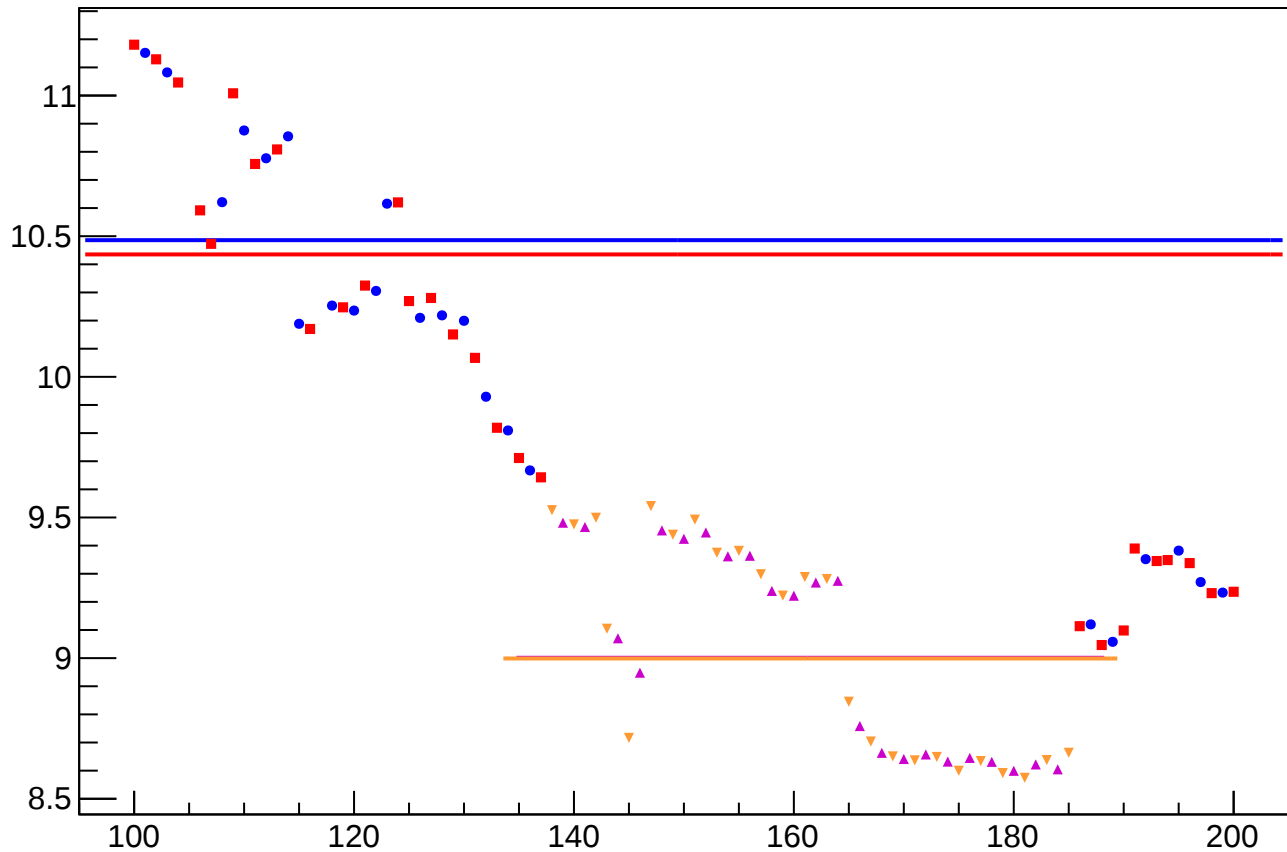
Right: 0.033 $\pm$ 0.000 χ^2 /NDF: 3804209.4/50

In: 0.031 $\pm$ 0.000 χ^2 /NDF:2147516.9/45

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:2798751.2/52

All: 0.031 $\pm$ 0.000 χ^2 /NDF: 4946991.0/98

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.486 $\pm$ 0.000 χ^2 /NDF: 10763328778.0/22

Left Out: 8.999 $\pm$ 0.000 χ^2 /NDF: 6392583736.5/24

Right Out: 10.435 $\pm$ 0.000 χ^2 /NDF: 10621320025.2/27

Left In: 9.001 $\pm$ 0.000 χ^2 /NDF: 5314536205.4/22

Left: 9.000 $\pm$ 0.000 χ^2 /NDF: 11707260677.5/47

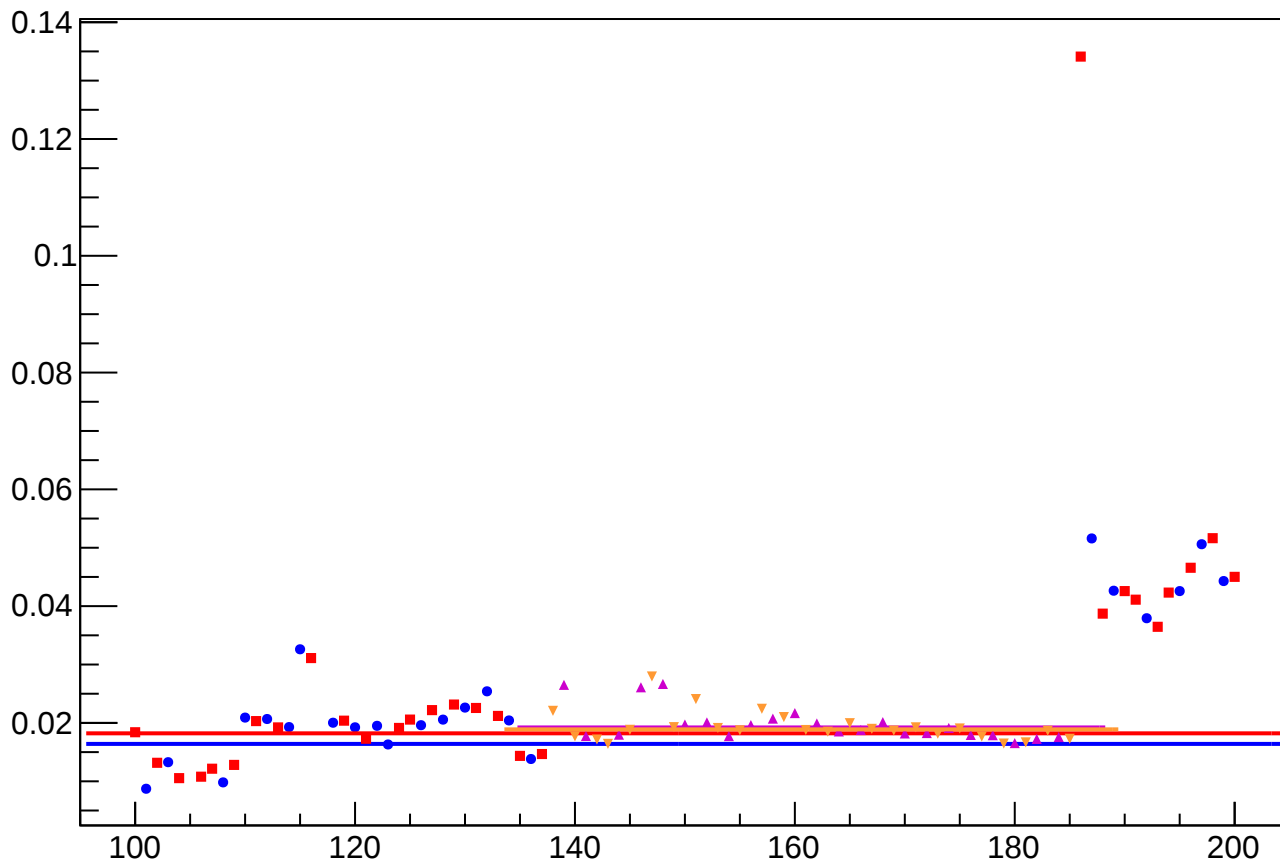
Right: 10.460 $\pm$ 0.000 χ^2 /NDF: 21420854449.6/50

In: 9.590 $\pm$ 0.000 χ^2 /NDF: 53477200277.9/45

Out: 9.538 $\pm$ 0.000 χ^2 /NDF: 53405699883.2/52

All: 9.563 $\pm$ 0.000 χ^2 /NDF: 106980530430.7

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 4628008.0/22

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.018+/-0.000 χ^2/NDF : 5556119.3/27

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

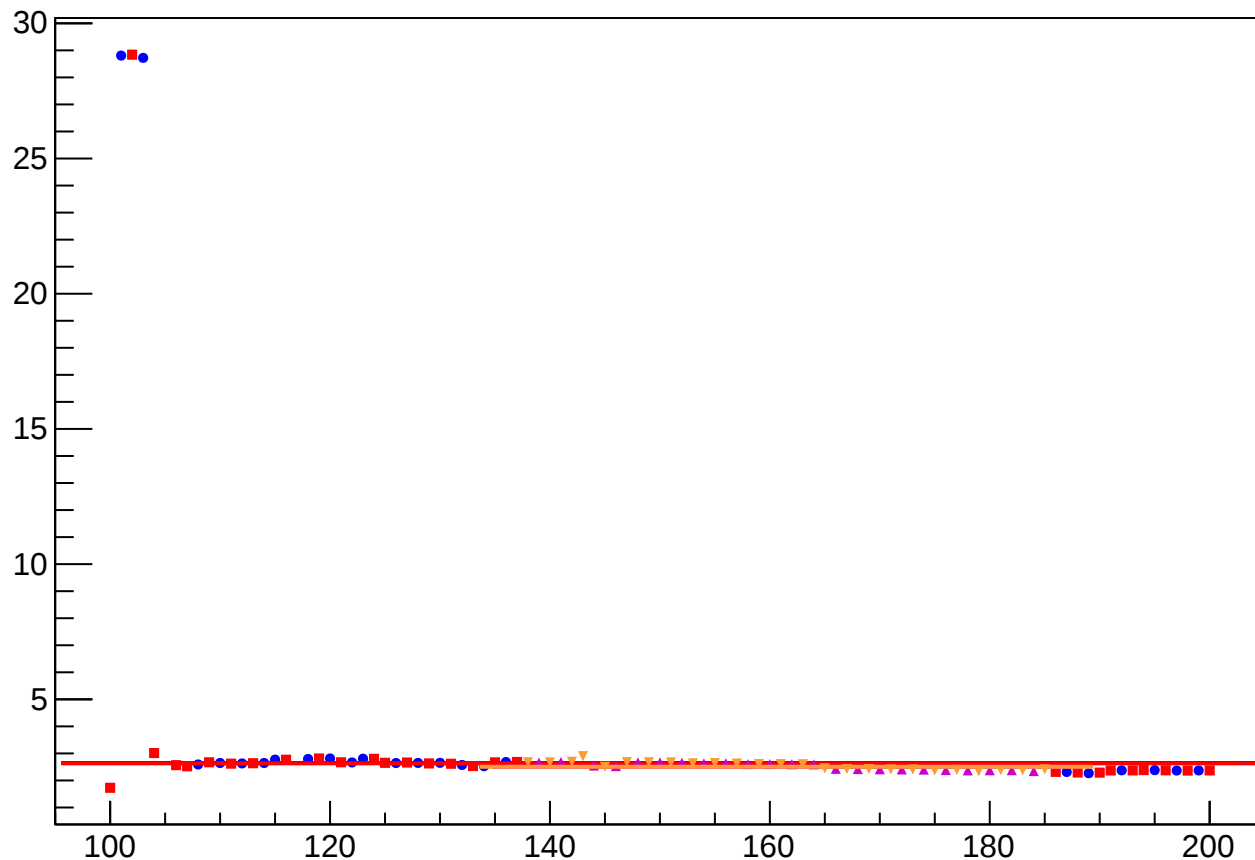
Right: 0.017+/-0.000 χ^2/NDF : 10276592.5/50

In: 0.018+/-0.000 χ^2/NDF : 5379688.2/45

Out: 0.019+/-0.000 χ^2/NDF : 6000635.2/52

All: 0.018+/-0.000 χ^2/NDF : 11401188.4/98

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.646 $\pm$ 0.000 χ^2 /NDF: 170837250331.3/22

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.633 $\pm$ 0.000 χ^2 /NDF: 82971380263.0/27

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

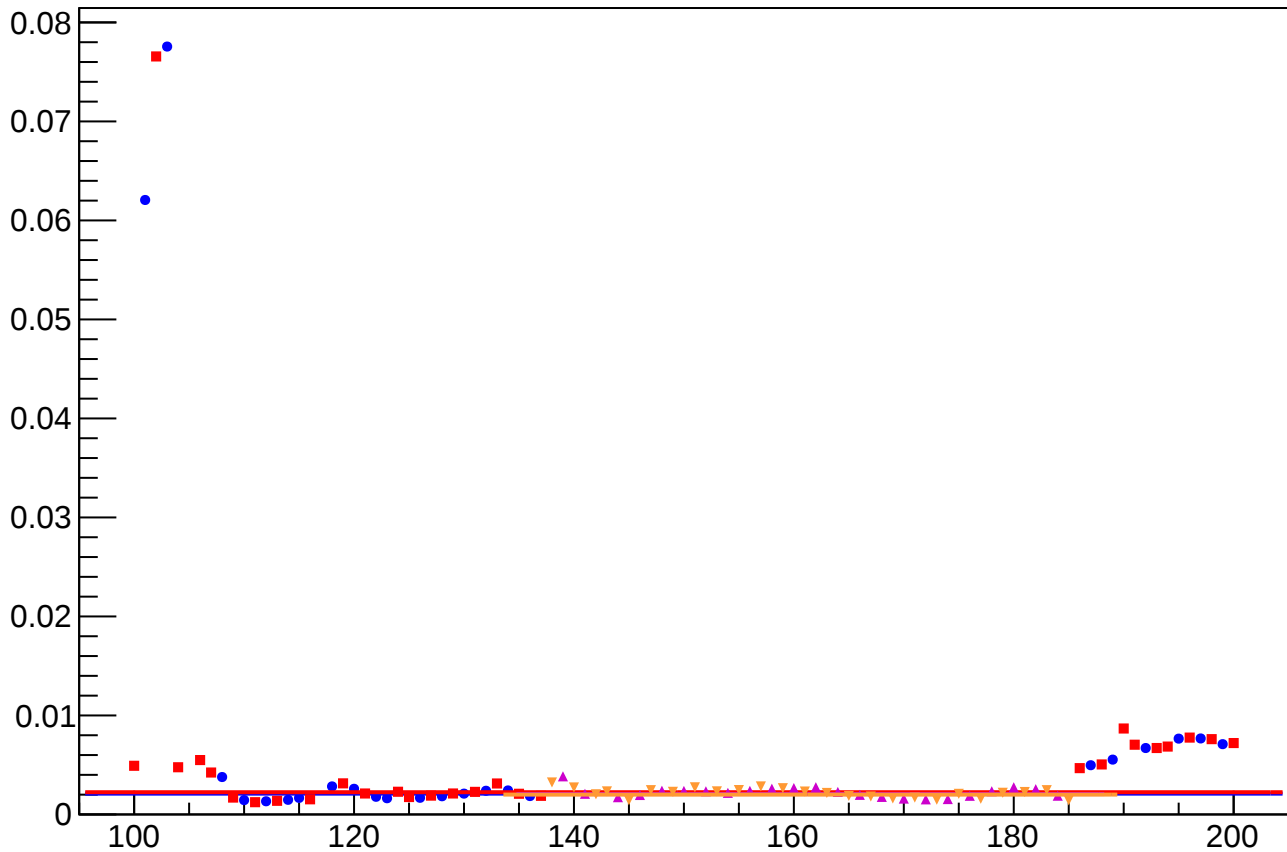
Right: 2.639 $\pm$ 0.000 χ^2 /NDF: 253928657542.4/50

In: 2.548 $\pm$ 0.000 χ^2 /NDF: 233434279684.2/45

Out: 2.544 $\pm$ 0.000 χ^2 /NDF: 164631360882.8/52

All: 2.546 $\pm$ 0.000 χ^2 /NDF: 398096437583.8

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 6604704.7/22

Left Out: 0.002+/-0.000 χ^2/NDF : 1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 7816600.7/27

Left In: 0.002+/-0.000 χ^2/NDF : 1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

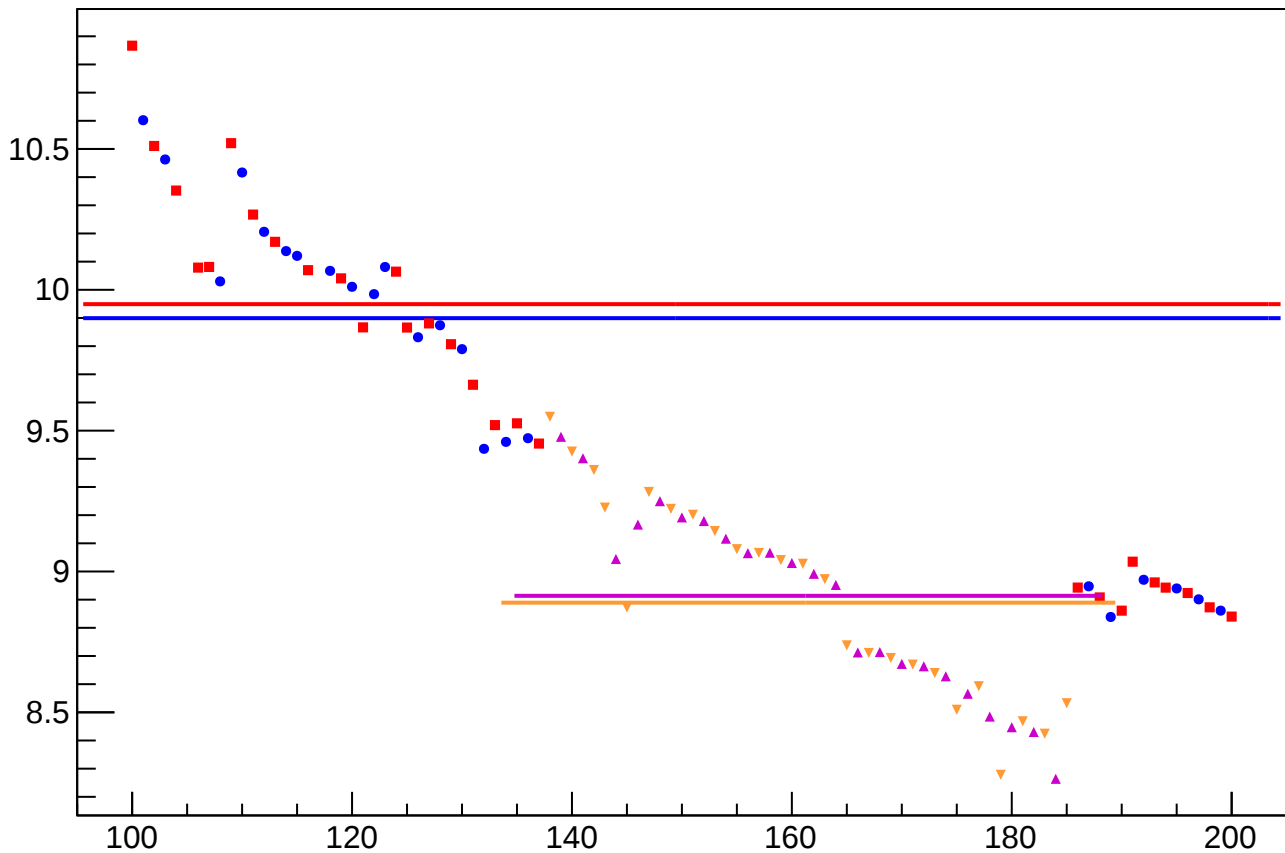
Right: 0.002+/-0.000 χ^2/NDF : 14451515.8/50

In: 0.002+/-0.000 χ^2/NDF : 7911779.9/45

Out: 0.002+/-0.000 χ^2/NDF : 9409807.8/52

All: 0.002+/-0.000 χ^2/NDF : 17321722.2/98

yield_sam8_mean vs Slug, Sign Corrected



Left: 8.901 +/- 0.000 χ^2/NDF : 63312247922.6/47

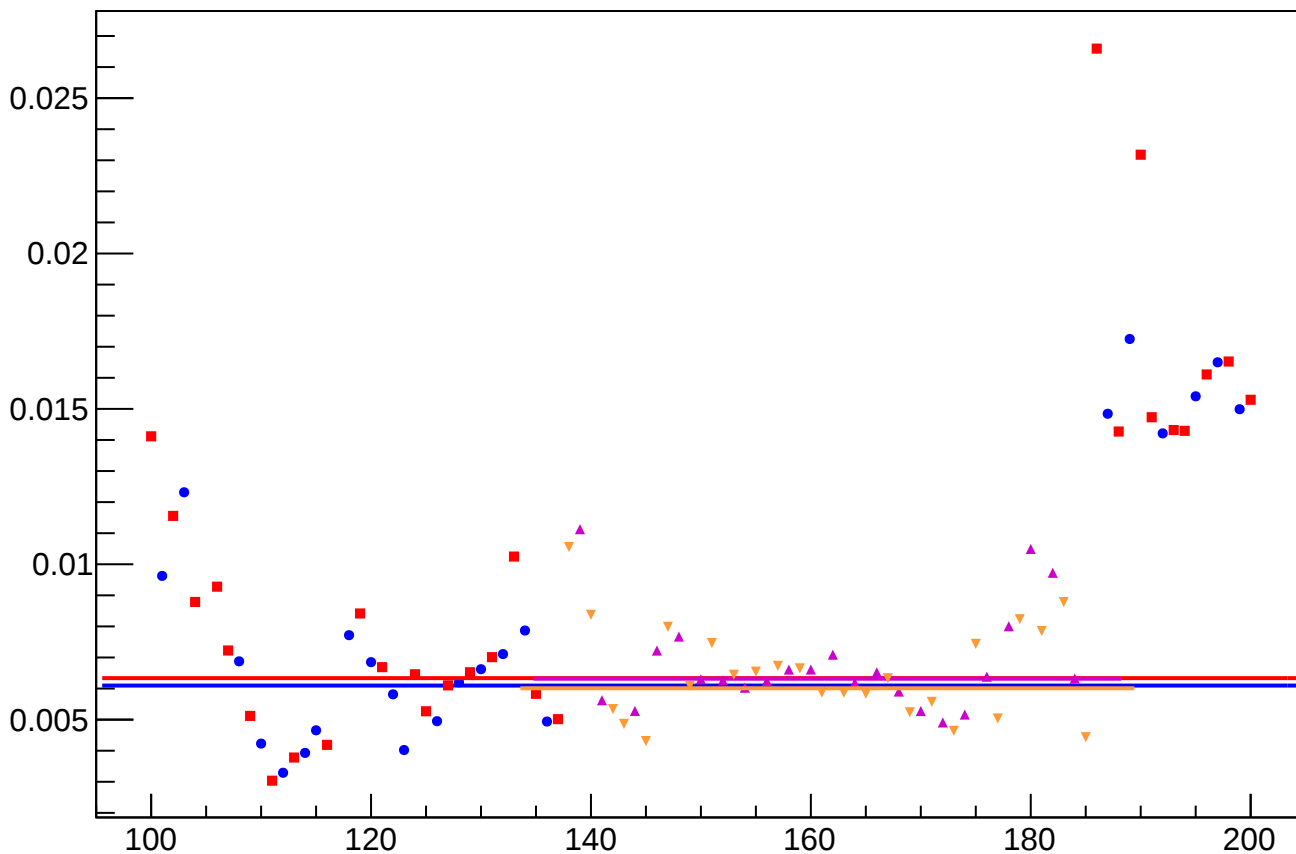
Right: 9.925 +/- 0.000 χ^2/NDF : 80886420755.3/50

In: 9.270 +/- 0.000 χ^2/NDF : 187357042314.3/45

Out: 9.258 +/- 0.000 χ^2/NDF : 236380849673.2/52

All: 9.264 +/- 0.000 χ^2/NDF : 423780374105.1

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 4306836.3/22

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.006+/-0.000 χ^2/NDF : 6313703.0/27

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

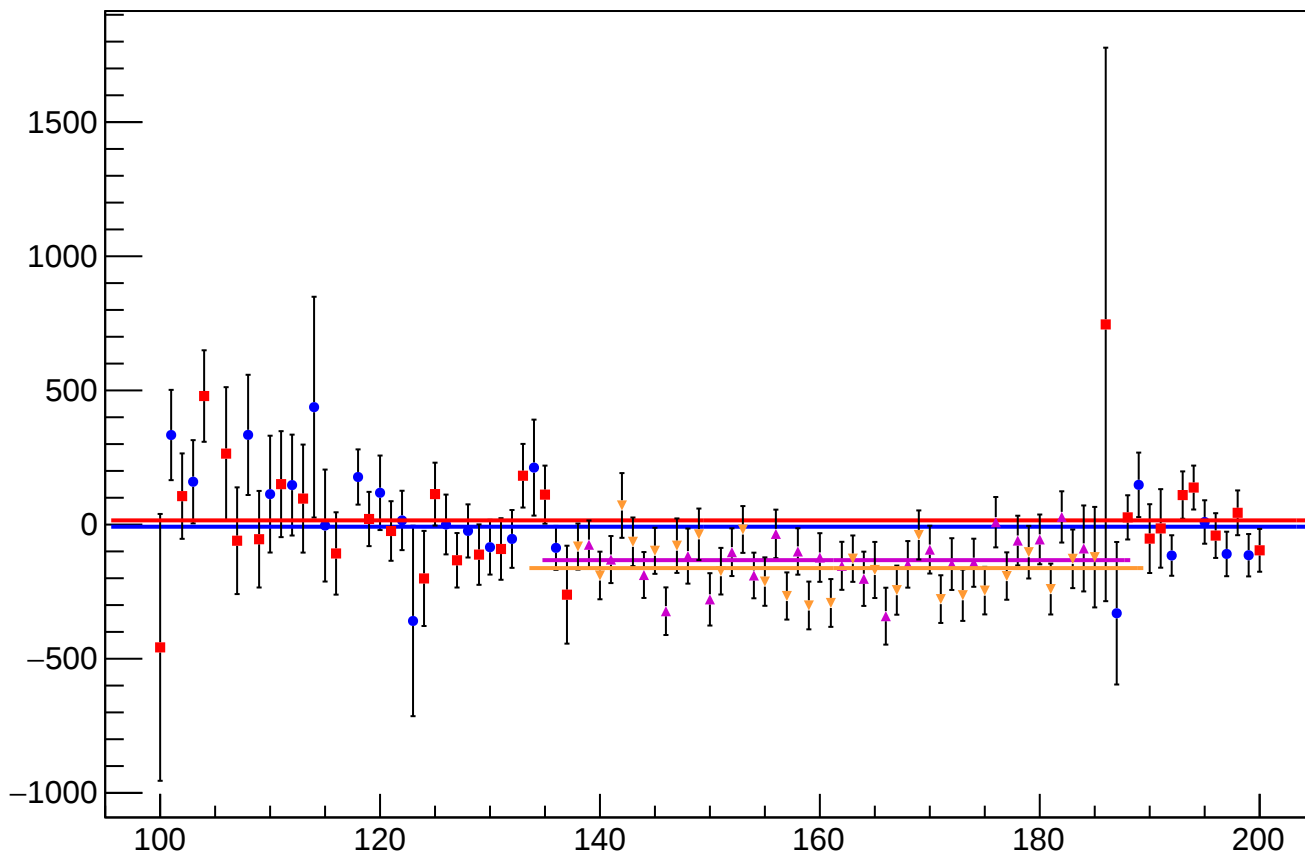
Right: 0.006+/-0.000 χ^2/NDF : 10632273.0/50

In: 0.006+/-0.000 χ^2/NDF :5406241.4/45

Out: 0.006+/-0.000 χ^2/NDF :7656076.1/52

All: 0.006+/-0.000 χ^2/NDF : 13070006.7/98

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -7.999 ± 24.447 $\chi^2/\text{NDF}: 26.6/22$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: 15.661 ± 22.685 $\chi^2/\text{NDF}: 29.6/27$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

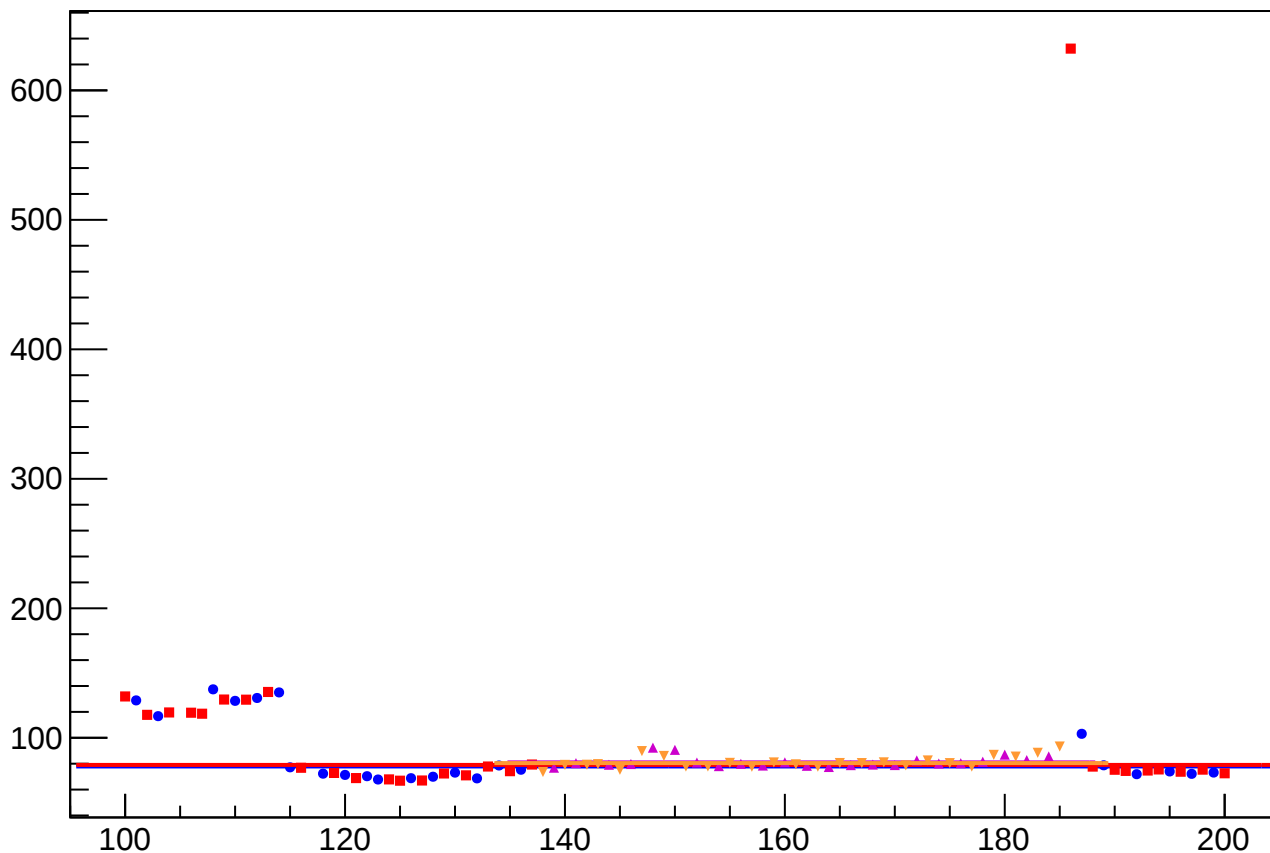
Right: 4.714 ± 16.629 $\chi^2/\text{NDF}: 56.8/50$

In: -84.417 ± 15.198 $\chi^2/\text{NDF}: 63.3/45$

Out: -90.012 ± 14.450 $\chi^2/\text{NDF}: 91.8/52$

All: -87.355 ± 10.472 $\chi^2/\text{NDF}: 155.2/98$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 77.856 $\pm$ 0.017 χ^2 /NDF: 875808.6/22

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 79.043 $\pm$ 0.016 χ^2 /NDF: 1546111.8/27

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

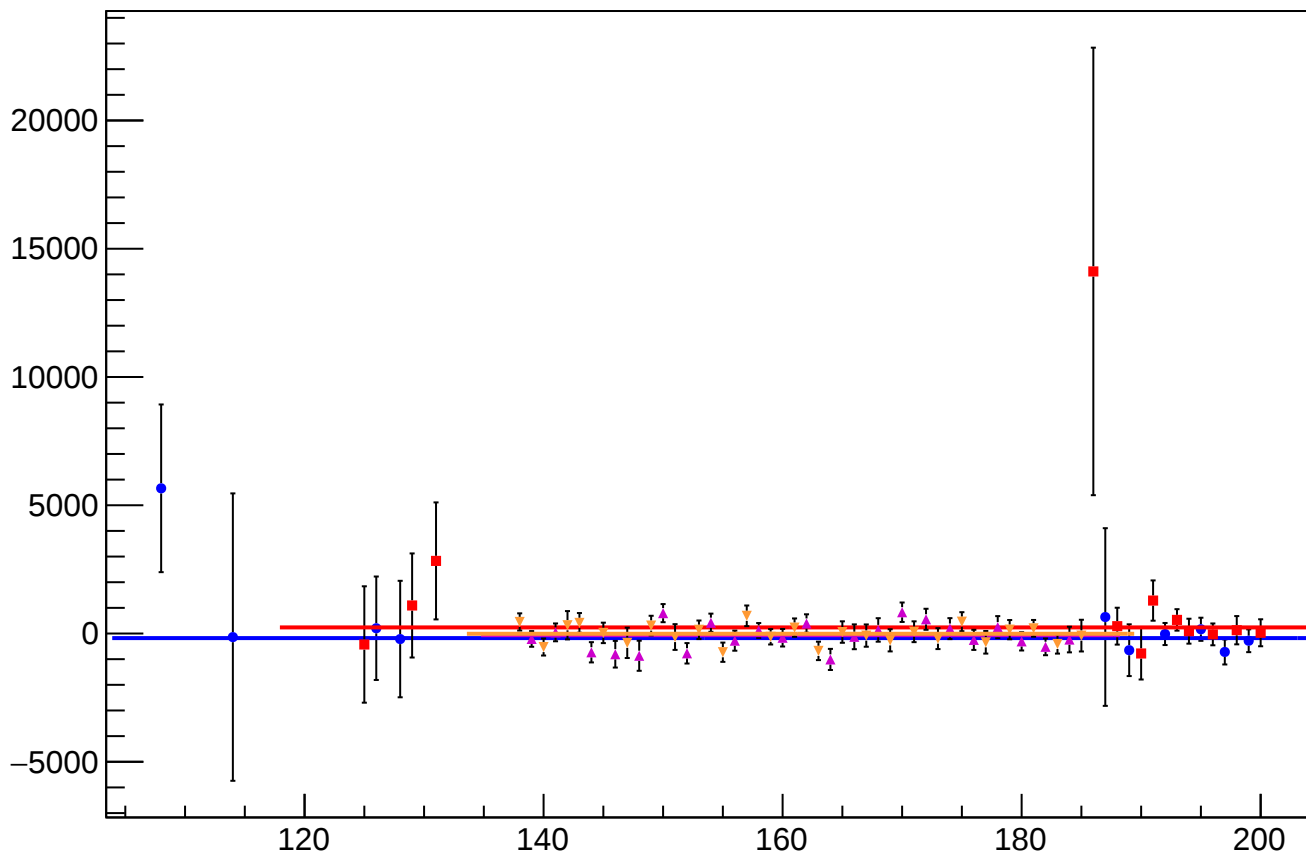
Right: 78.494 $\pm$ 0.012 χ^2 /NDF: 2424455.3/50

In: 79.793 $\pm$ 0.011 χ^2 /NDF: 968532.8/45

Out: 79.884 $\pm$ 0.010 χ^2 /NDF: 1640680.7/52

All: 79.841 $\pm$ 0.007 χ^2 /NDF: 2609251.3/98

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -178.459 ± 217.064 χ^2/NDF : 5.5/9

Left Out: -10.486 ± 78.391 χ^2/NDF : 22.5/24

Right Out: 238.059 ± 190.487 χ^2/NDF : 8.1/11

Left In: -64.591 ± 80.047 χ^2/NDF : 37.4/22

Left: -36.973 ± 56.007 χ^2/NDF : 60.2/47

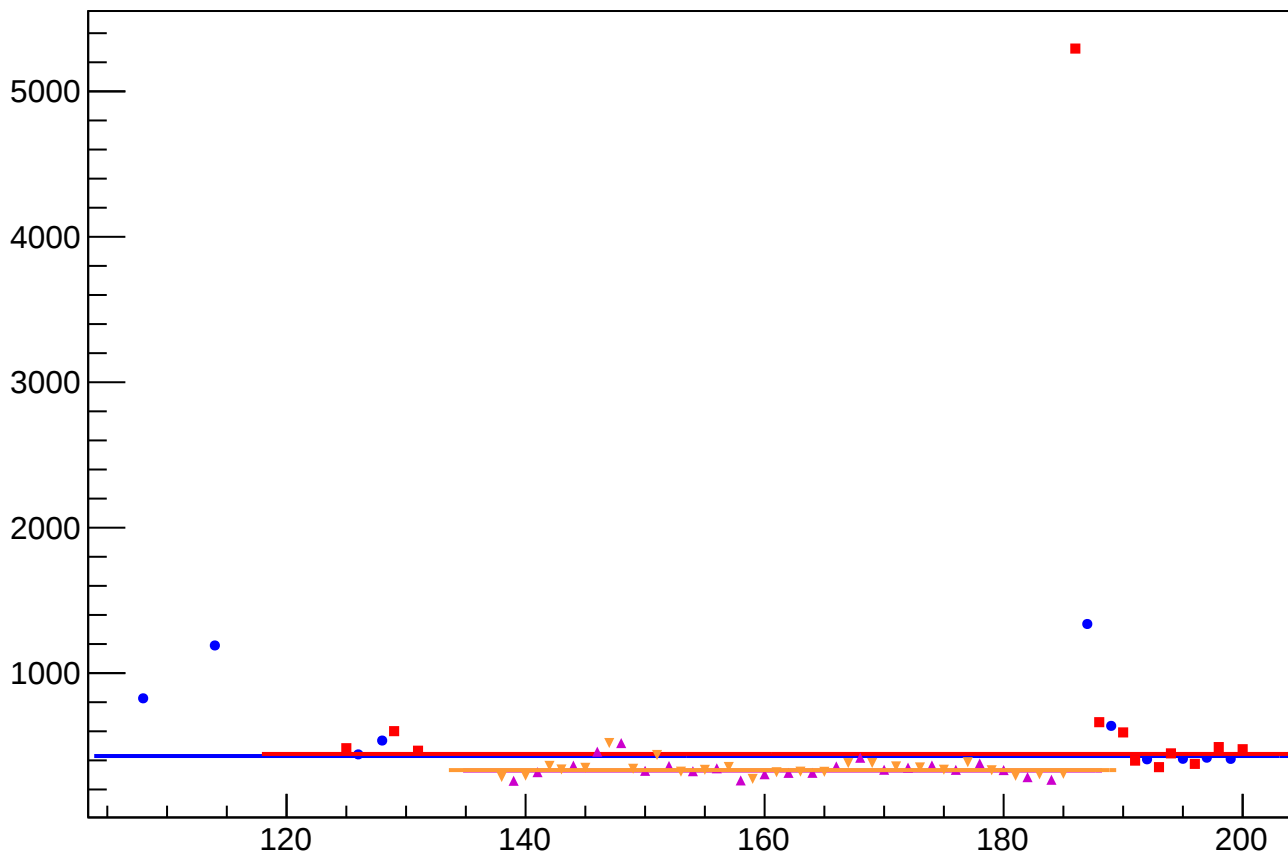
Right: 56.847 ± 143.174 χ^2/NDF : 15.6/21

In: -78.222 ± 75.103 χ^2/NDF : 43.1/32

Out: 25.510 ± 72.492 χ^2/NDF : 32.1/36

All: -24.522 ± 52.158 χ^2/NDF : 76.2/69

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 430.018+/-0.153 χ^2/NDF : 306866.8/9

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 444.304+/-0.135 χ^2/NDF : 1033142.7/11

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

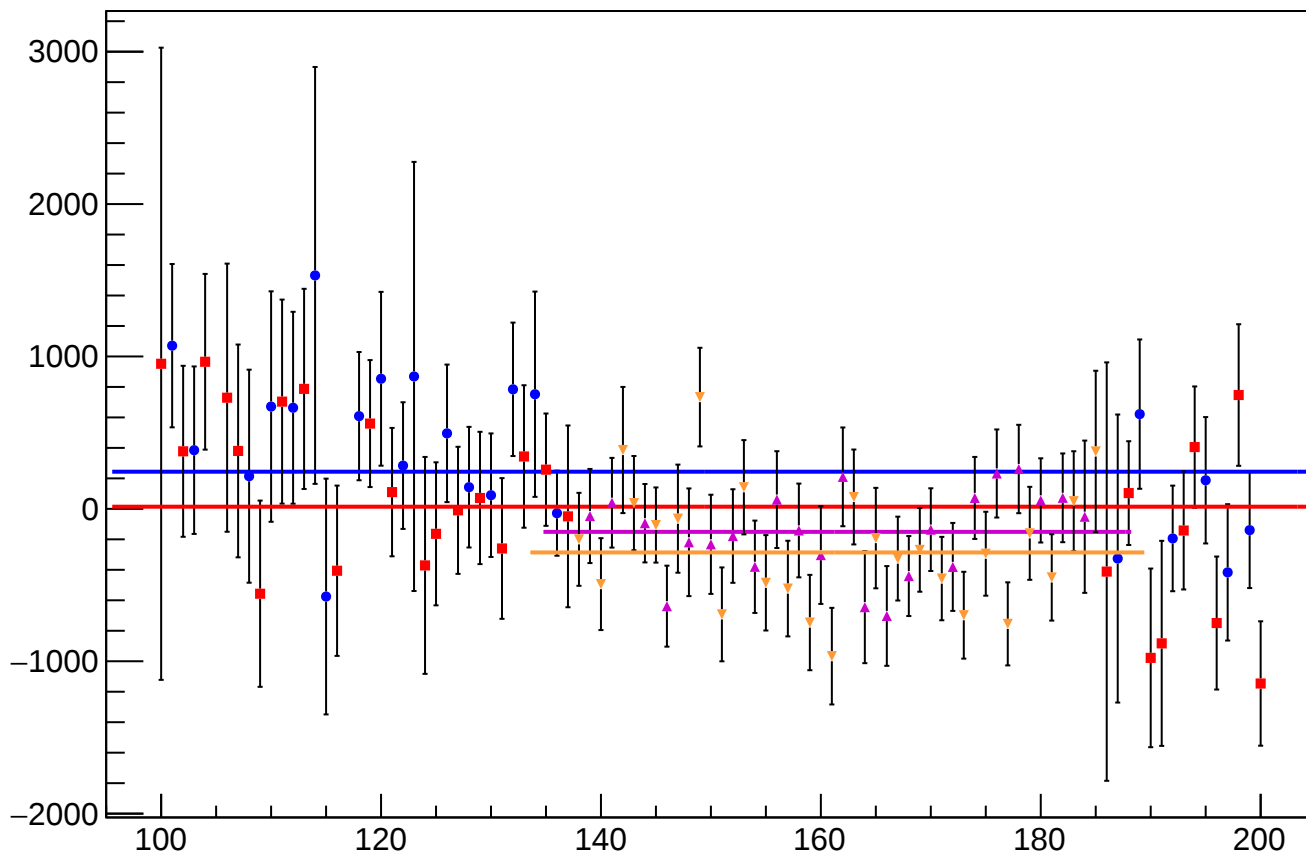
Right: 438.089+/-0.101 χ^2/NDF : 1344903.4/21

In: 341.960+/-0.053 χ^2/NDF : 1476744.8/32

Out: 349.319+/-0.051 χ^2/NDF : 2206769.6/36

All: 345.770+/-0.037 χ^2/NDF : 3693454.9/69

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 243.784+/-100.340 χ^2/NDF : 16.7/22

Left Out: -286.030+/-61.095 χ^2/NDF :36.6/24

Right Out: 14.173+/-94.587 χ^2/NDF : 31.3/27

Left In: -150.920+/-62.818 χ^2/NDF :18.7/22

Left: -220.353+/-43.797 χ^2/NDF : 57.6/47

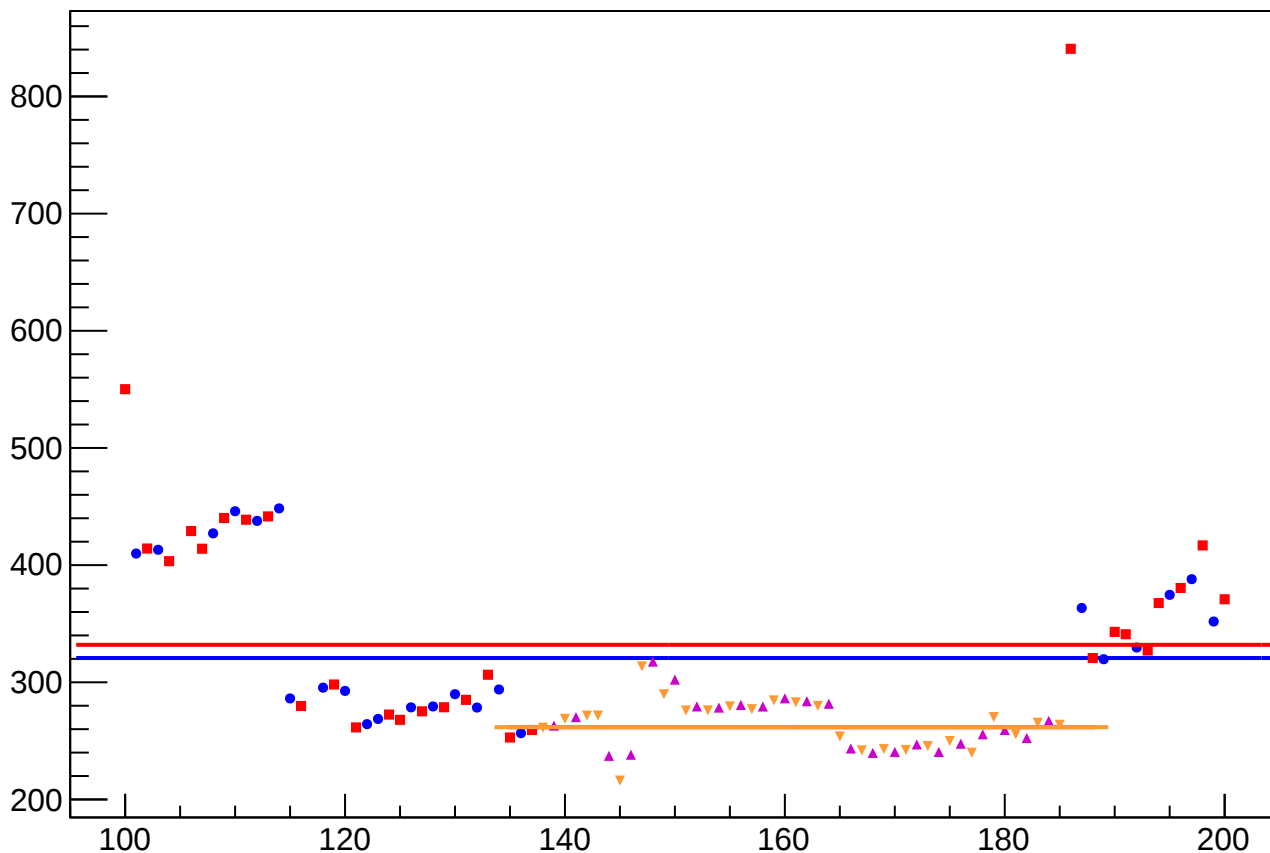
Right: 122.209+/-68.827 χ^2/NDF : 50.7/50

In: -39.780+/-53.244 χ^2/NDF :46.5/45

Out: -197.656+/-51.320 χ^2/NDF :74.9/52

All: -121.622+/-36.950 χ^2/NDF : 126.0/98

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 320.716+/-0.071 χ^2/NDF : 631548.2/22

Left Out: 261.722+/-0.043 χ^2/NDF :233222.6/24

Right Out: 331.996+/-0.067 χ^2/NDF : 1074465.6/27

Left In: 261.637+/-0.044 χ^2/NDF :228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

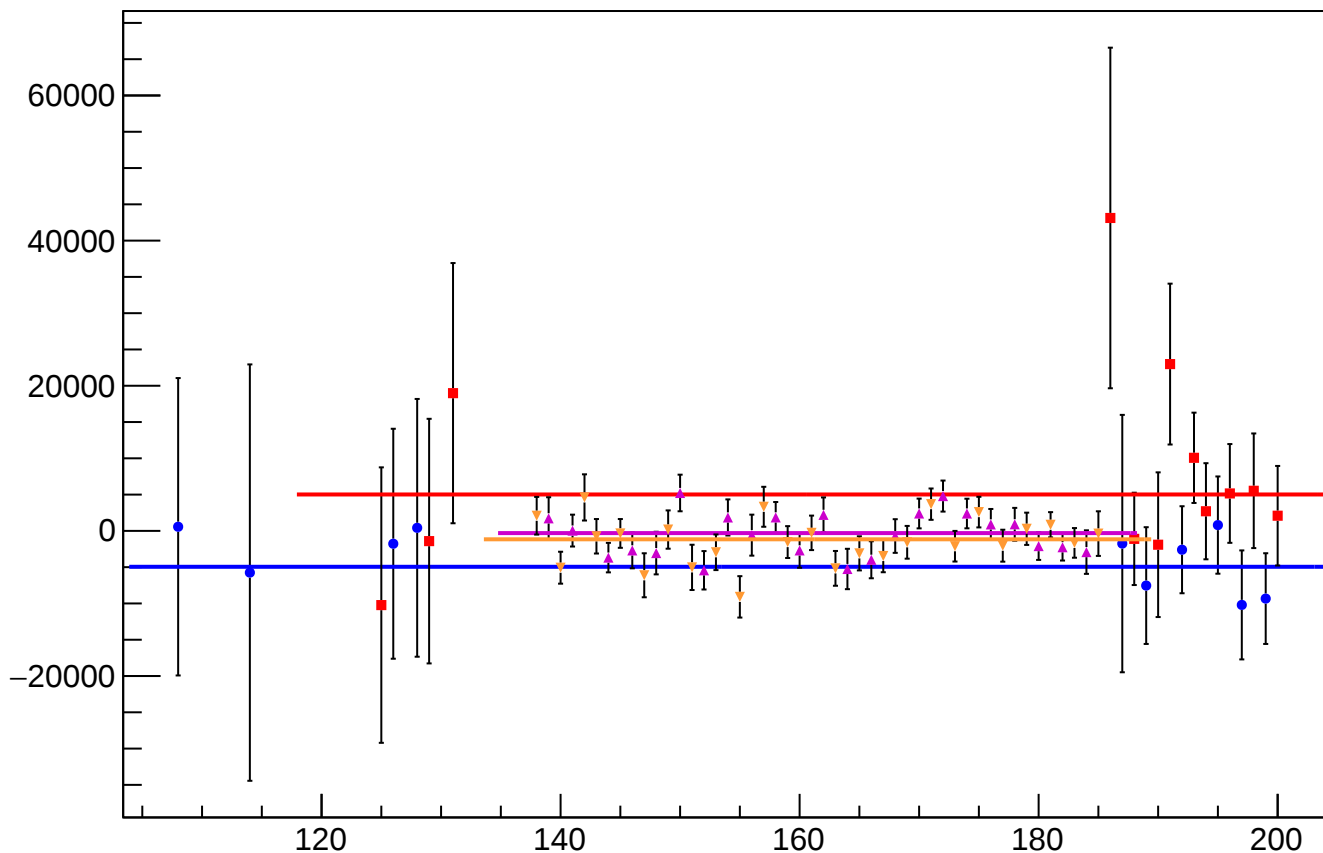
Right: 326.688+/-0.049 χ^2/NDF : 1719397.8/50

In: 278.272+/-0.038 χ^2/NDF :1357908.2/45

Out: 282.409+/-0.036 χ^2/NDF :2086672.5/52

All: 280.417+/-0.026 χ^2/NDF : 3450840.2/98

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -4947.745 ± 2853.498 $\chi^2/\text{NDF}: 2.2/9$

Left Out: -1161.443 ± 469.036 $\chi^2/\text{NDF}: 38.8/24$

Right Out: 5017.472 ± 2487.317 $\chi^2/\text{NDF}: 9.0/11$

Left In: -304.366 ± 483.778 $\chi^2/\text{NDF}: 35.4/22$

Left: -746.162 ± 336.750 $\chi^2/\text{NDF}: 75.7/47$

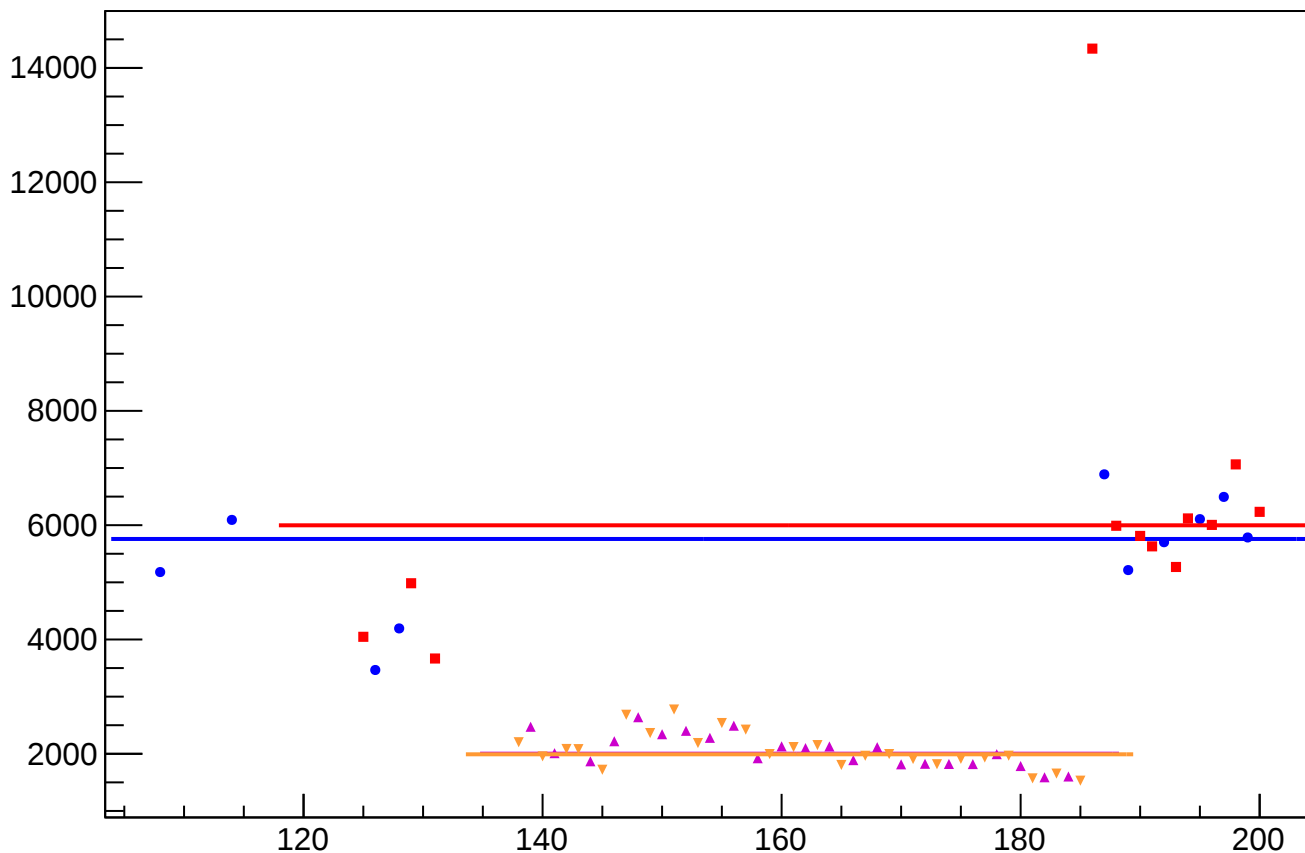
Right: 714.908 ± 1874.985 $\chi^2/\text{NDF}: 18.2/21$

In: -434.103 ± 476.972 $\chi^2/\text{NDF}: 40.2/32$

Out: -949.271 ± 460.913 $\chi^2/\text{NDF}: 53.8/36$

All: -700.505 ± 331.447 $\chi^2/\text{NDF}: 94.5/69$

asym_sam2_correction_rms vs Slug, Sign Corrected



Left: 1996.458 $\pm$ 0.238 χ^2/NDF : 1312795.7/47

Right: 5894.562 $\pm$ 1.326 χ^2/NDF : 493874.7/21

In: 2107.113 $\pm$ 0.337 χ^2/NDF : 4056633.2/32

Out: 2128.686 $\pm$ 0.326 χ^2/NDF : 6122315.5/36

All: 2118.269 $\pm$ 0.234 χ^2/NDF : 10181064.6/60

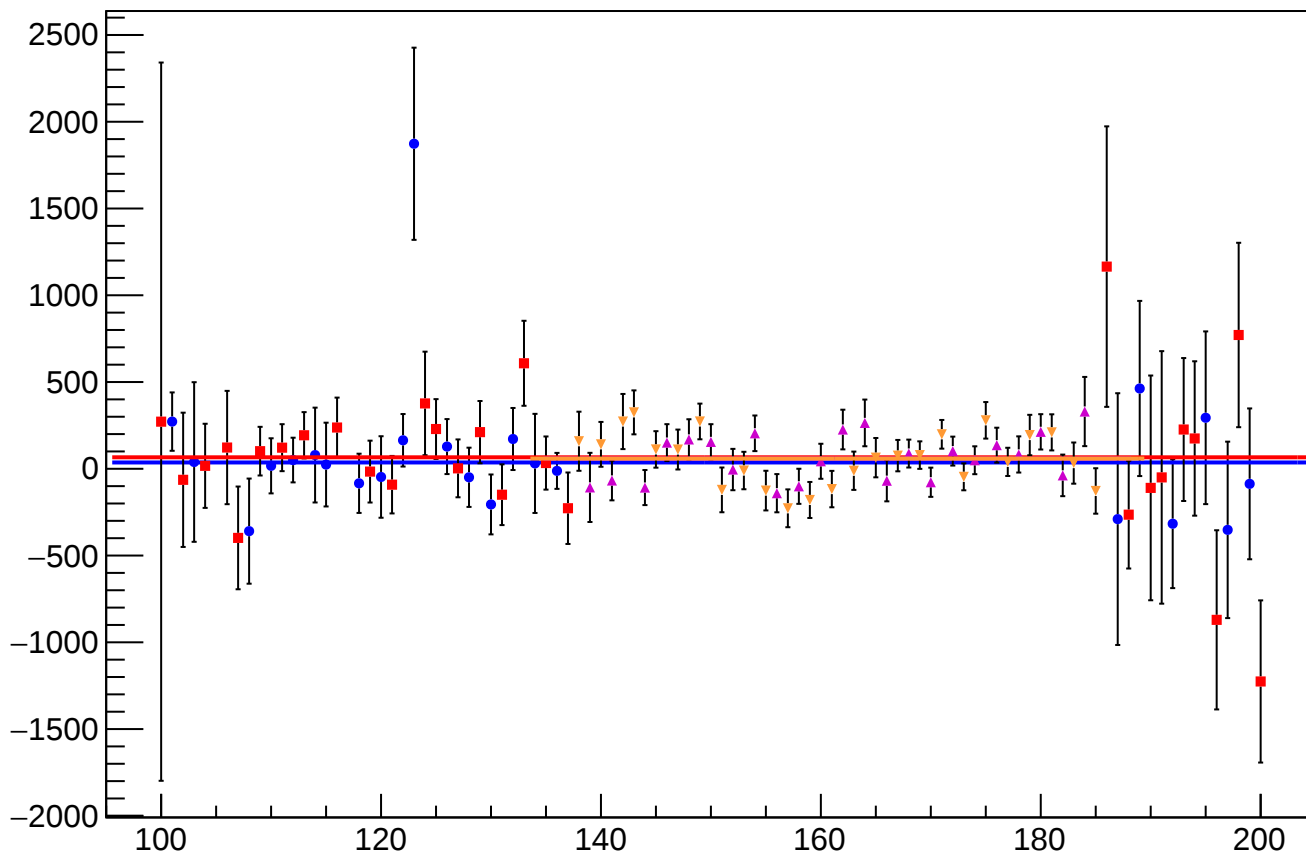
Right In: 5758.703 $\pm$ 2.018 χ^2/NDF : 101337.0/9

Left Out: 1991.105 $\pm$ 0.332 χ^2/NDF : 726310.6/24

Right Out: 5997.789 $\pm$ 1.759 χ^2/NDF : 384559.2/11

Left In: 2002.154 $\pm$ 0.342 χ^2/NDF : 585947.4/22

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 36.442 ± 42.580 χ^2/NDF : 22.2/22

Left Out: 58.983 ± 21.137 χ^2/NDF : 46.9/24

Right Out: 66.185 ± 41.720 χ^2/NDF : 33.2/27

Left In: 59.235 ± 21.921 χ^2/NDF : 29.4/22

Left: 59.104 ± 15.216 χ^2/NDF : 76.3/47

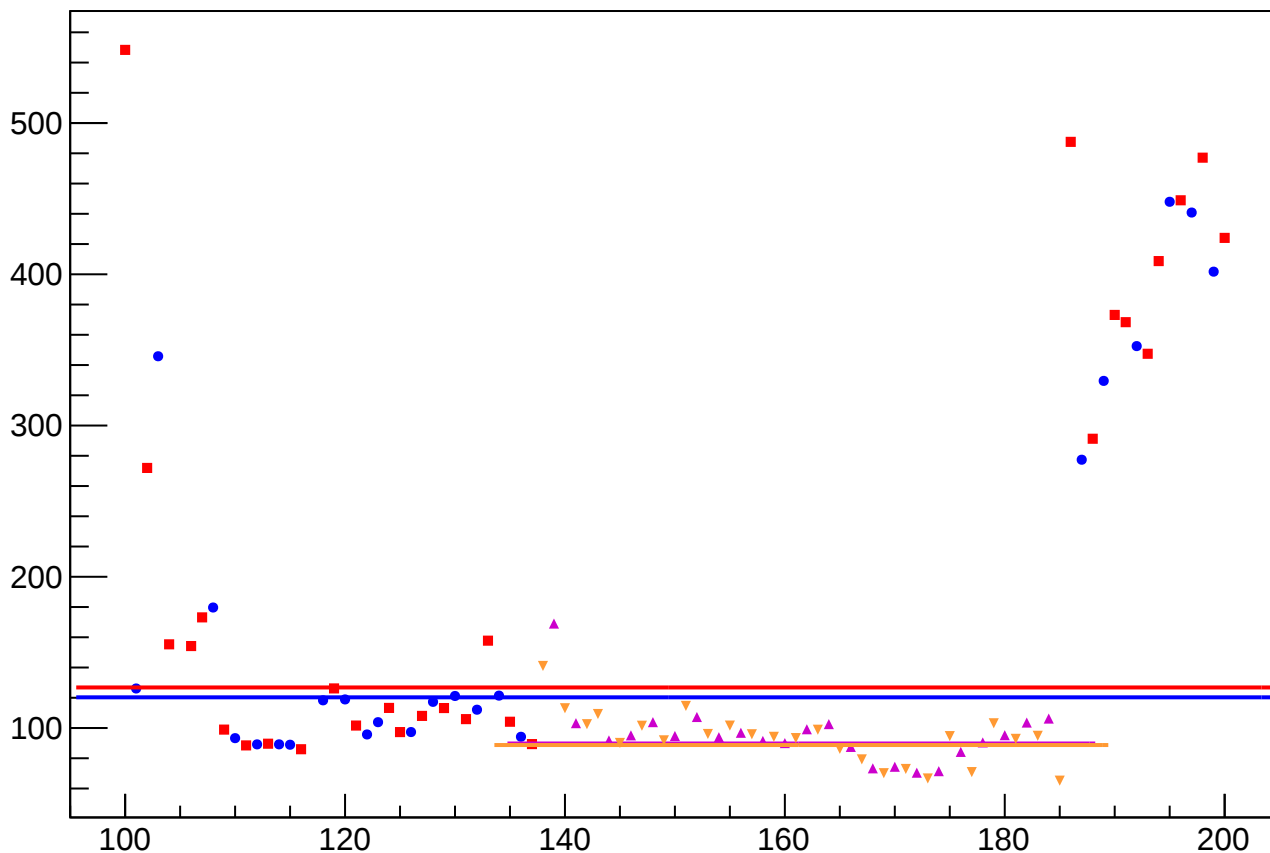
Right: 51.617 ± 29.800 χ^2/NDF : 55.6/50

In: 54.459 ± 19.490 χ^2/NDF : 51.8/45

Out: 60.454 ± 18.855 χ^2/NDF : 80.1/52

All: 57.556 ± 13.552 χ^2/NDF : 131.9/98

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 120.290 $\pm$ 0.030 χ^2 /NDF: 4744130.2/22

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF: 1079338.8/24

Right Out: 126.817 $\pm$ 0.030 χ^2 /NDF: 6582493.8/27

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

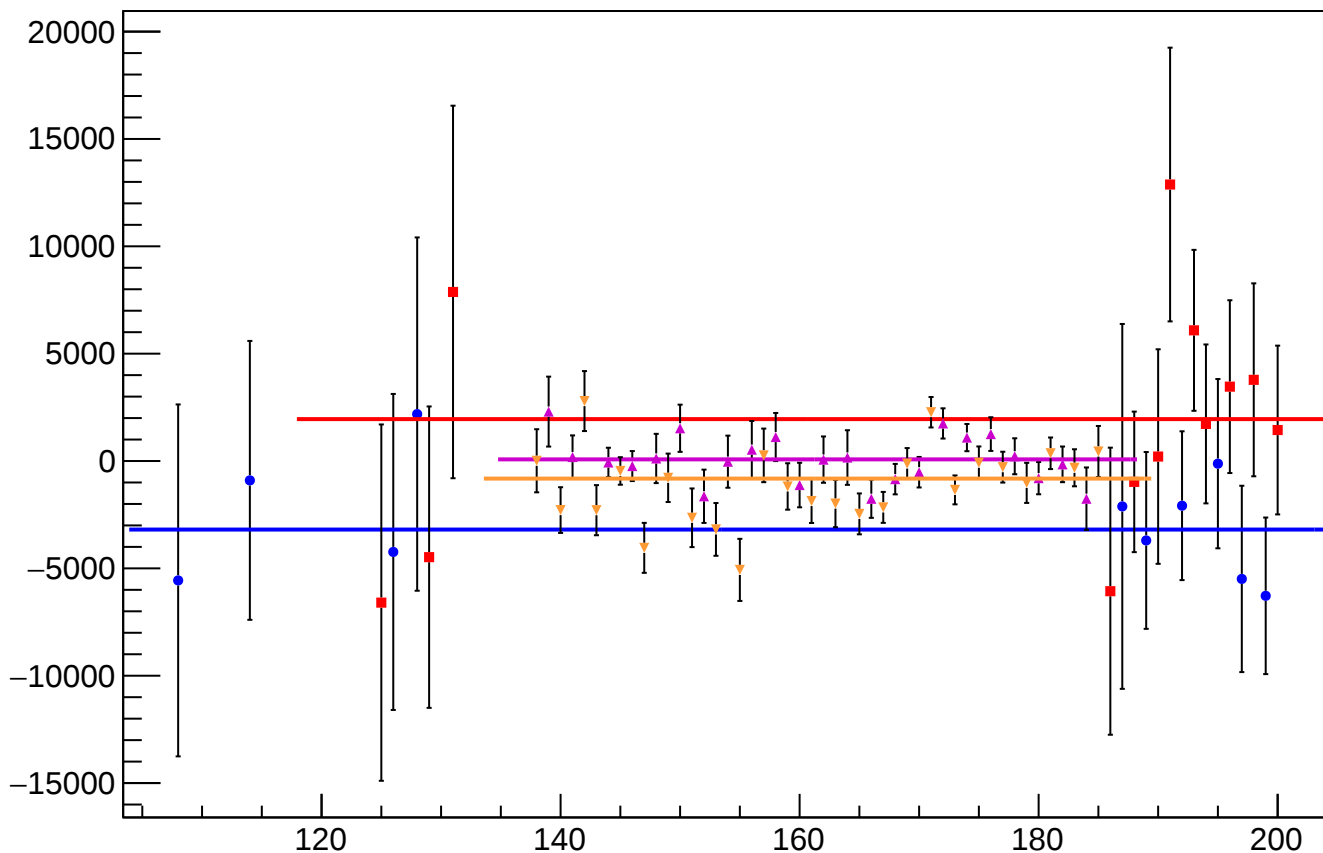
Right: 123.620 $\pm$ 0.021 χ^2 /NDF: 11350601.1/50

In: 96.161 $\pm$ 0.014 χ^2 /NDF: 6442413.9/45

Out: 96.524 $\pm$ 0.013 χ^2 /NDF: 8986963.8/52

All: 96.349 $\pm$ 0.010 χ^2 /NDF: 15429736.7/98

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -3192.313 ± 1541.931 χ^2/NDF : 2.4/9

Left Out: -818.877 ± 184.464 χ^2/NDF : 68.2/24

Right Out: 1951.777 ± 1349.925 χ^2/NDF : 9.2/11

Left In: 76.204 ± 186.651 χ^2/NDF : 28.3/22

Left: -376.610 ± 131.202 χ^2/NDF : 108.1/47

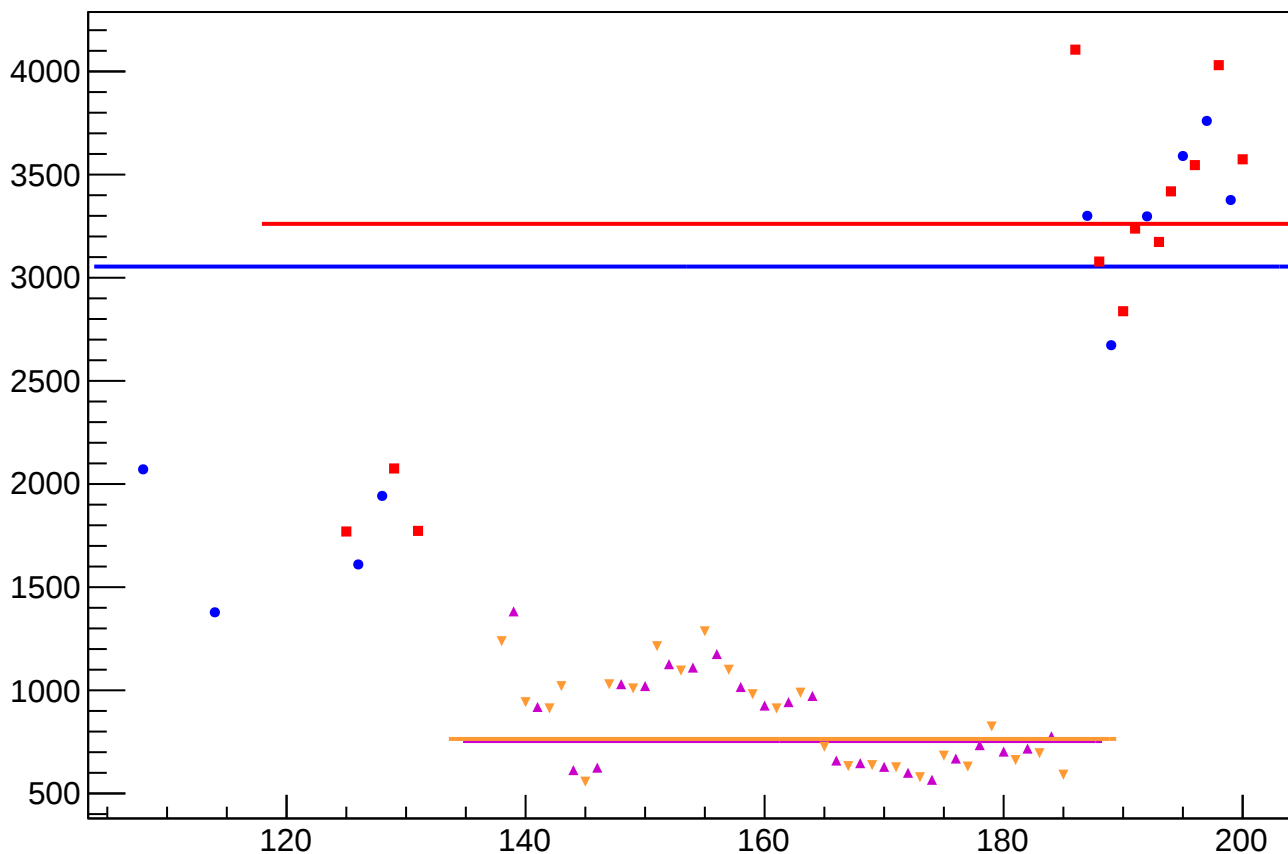
Right: -280.223 ± 1015.682 χ^2/NDF : 17.9/21

In: 29.002 ± 185.298 χ^2/NDF : 35.1/32

Out: -768.090 ± 182.765 χ^2/NDF : 81.6/36

All: -375.028 ± 130.121 χ^2/NDF : 126.0/69

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 3054.169+/-1.090 χ^2/NDF : 409738.9/9

Left Out: 764.280+/-0.130 χ^2/NDF : 2315985.8/24

Right Out: 3261.229+/-0.955 χ^2/NDF : 319129.3/11

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

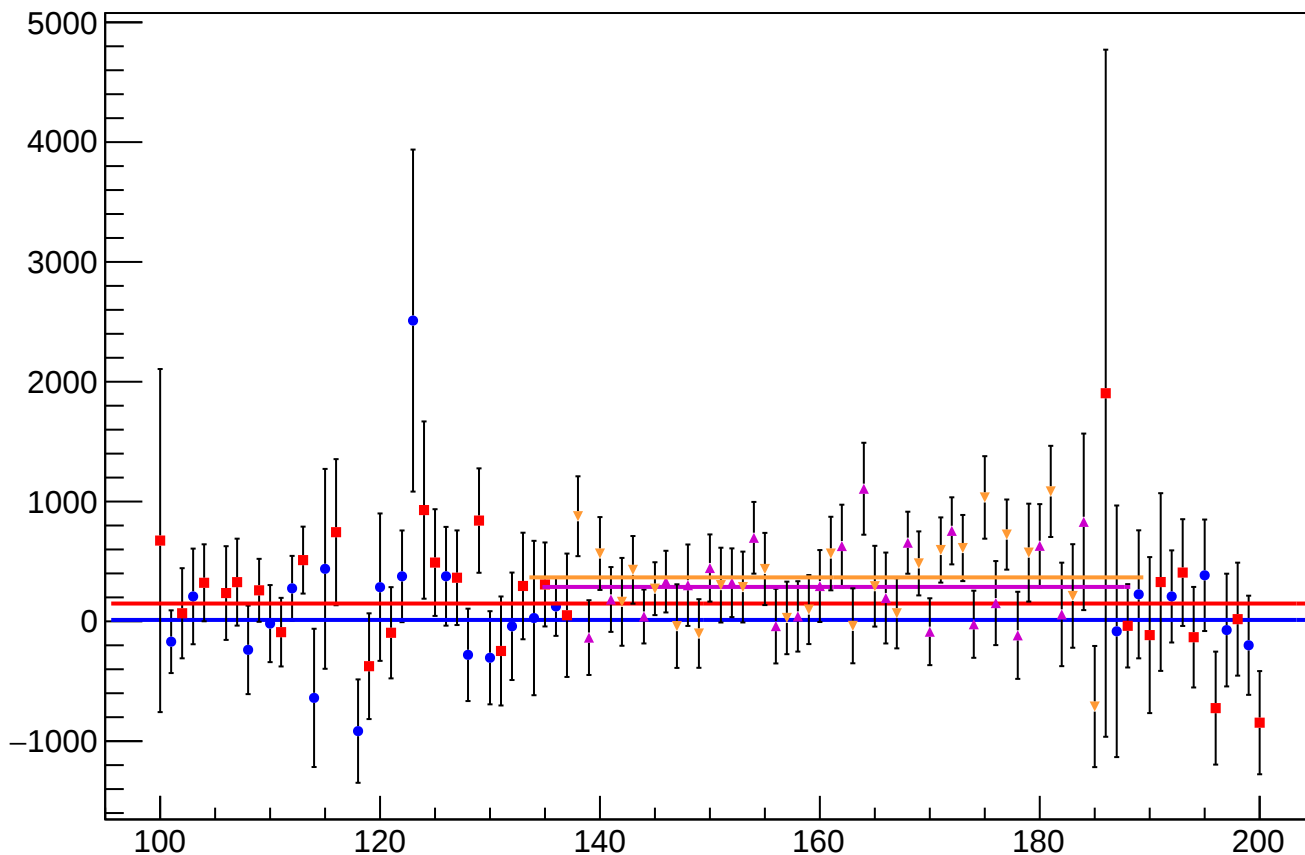
Right: 3171.386+/-0.718 χ^2/NDF : 749285.0/21

In: 787.244+/-0.131 χ^2/NDF : 6809361.8/32

Out: 810.049+/-0.129 χ^2/NDF : 9352427.9/36

All: 798.804+/-0.092 χ^2/NDF : 16177145.0/69

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 11.804+/-84.325 χ^2/NDF : 16.1/22

Left Out: 367.028+/-61.943 χ^2/NDF :28.2/24

Right Out: 148.661+/-78.180 χ^2/NDF : 22.2/27

Left In: 287.246+/-64.141 χ^2/NDF :23.9/22

Left: 328.527+/-44.557 χ^2/NDF : 52.9/47

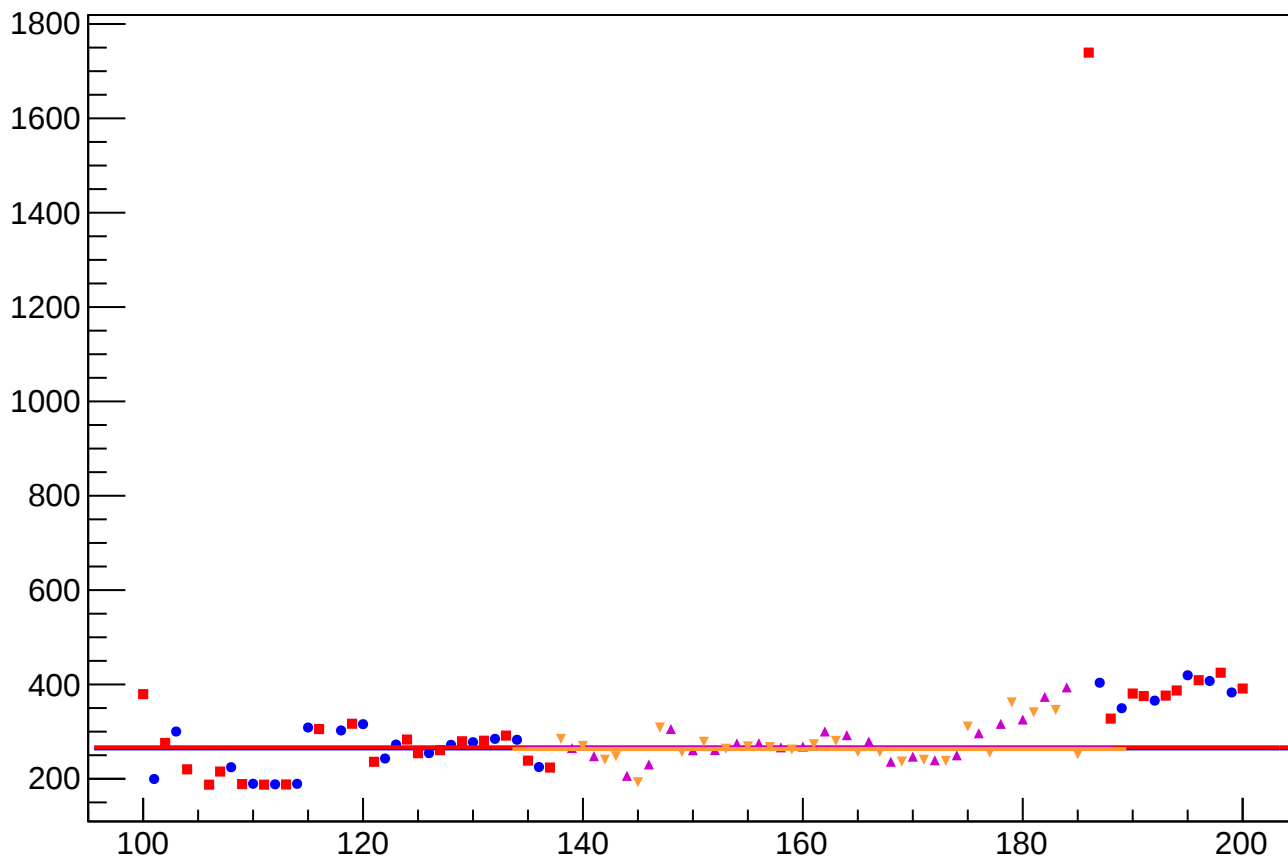
Right: 85.401+/-57.331 χ^2/NDF : 39.7/50

In: 186.293+/-51.051 χ^2/NDF :46.7/45

Out: 282.812+/-48.551 χ^2/NDF :55.3/52

All: 236.973+/-35.181 χ^2/NDF : 103.8/98

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 264.398 $\pm$ 0.060 χ^2 /NDF: 1361167.3/22

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 266.834 $\pm$ 0.055 χ^2 /NDF: 2305431.9/27

Left In: 264.923 $\pm$ 0.045 χ^2 /NDF: 609024.7/22

Left: 263.981 $\pm$ 0.032 χ^2 /NDF: 1252084.1/47

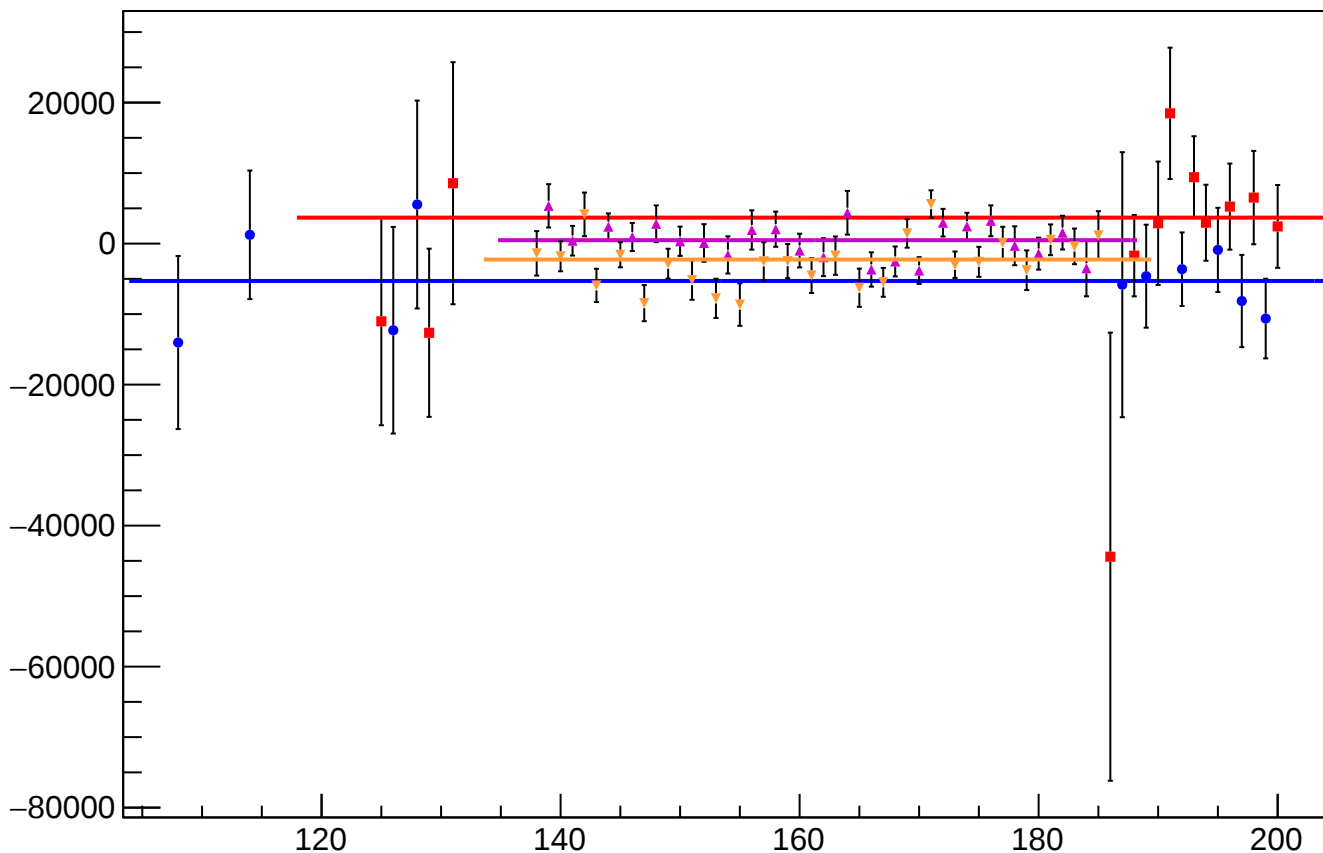
Right: 265.708 $\pm$ 0.041 χ^2 /NDF: 3667497.1/50

In: 264.730 $\pm$ 0.036 χ^2 /NDF: 1970241.2/45

Out: 264.542 $\pm$ 0.034 χ^2 /NDF: 2950456.6/52

All: 264.631 $\pm$ 0.025 χ^2 /NDF: 4920712.1/98

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -5298.053+/-2432.498 χ^2/NDF : 3.5/9

Left Out: -2260.196+/-475.336 χ^2/NDF :52.3/24

Right Out: 3684.091+/-2165.474 χ^2/NDF : 9.9/11

Left In: 485.590+/-487.465 χ^2/NDF :24.8/22

Left: -921.890+/-340.321 χ^2/NDF : 93.4/47

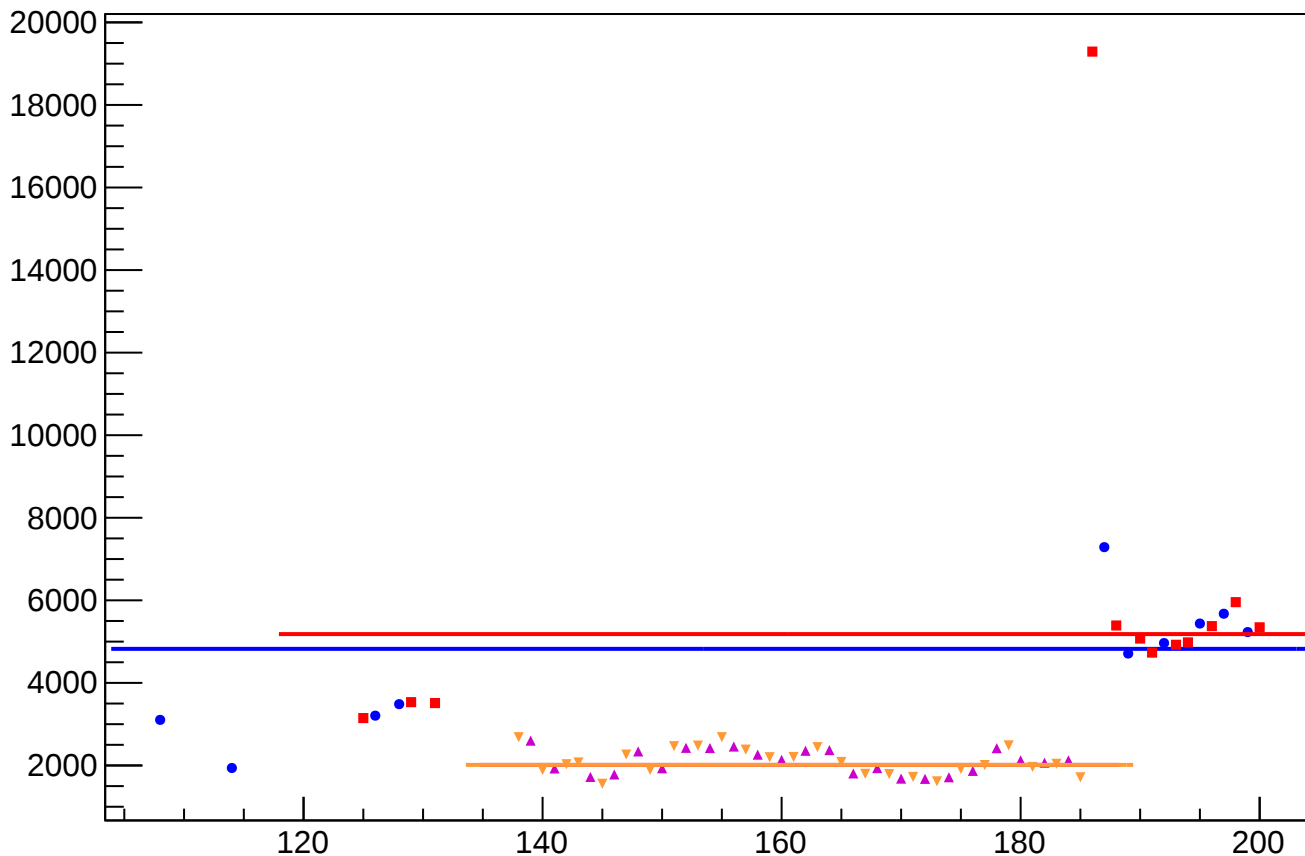
Right: -287.102+/-1617.421 χ^2/NDF : 21.1/21

In: 262.292+/-477.963 χ^2/NDF :33.7/32

Out: -1986.948+/-464.282 χ^2/NDF :69.5/36

All: -894.979+/-333.028 χ^2/NDF : 114.6/69

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4824.467+/-1.720 χ^2/NDF : 382047.5/9

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 5182.292+/-1.531 χ^2/NDF : 534567.2/11

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

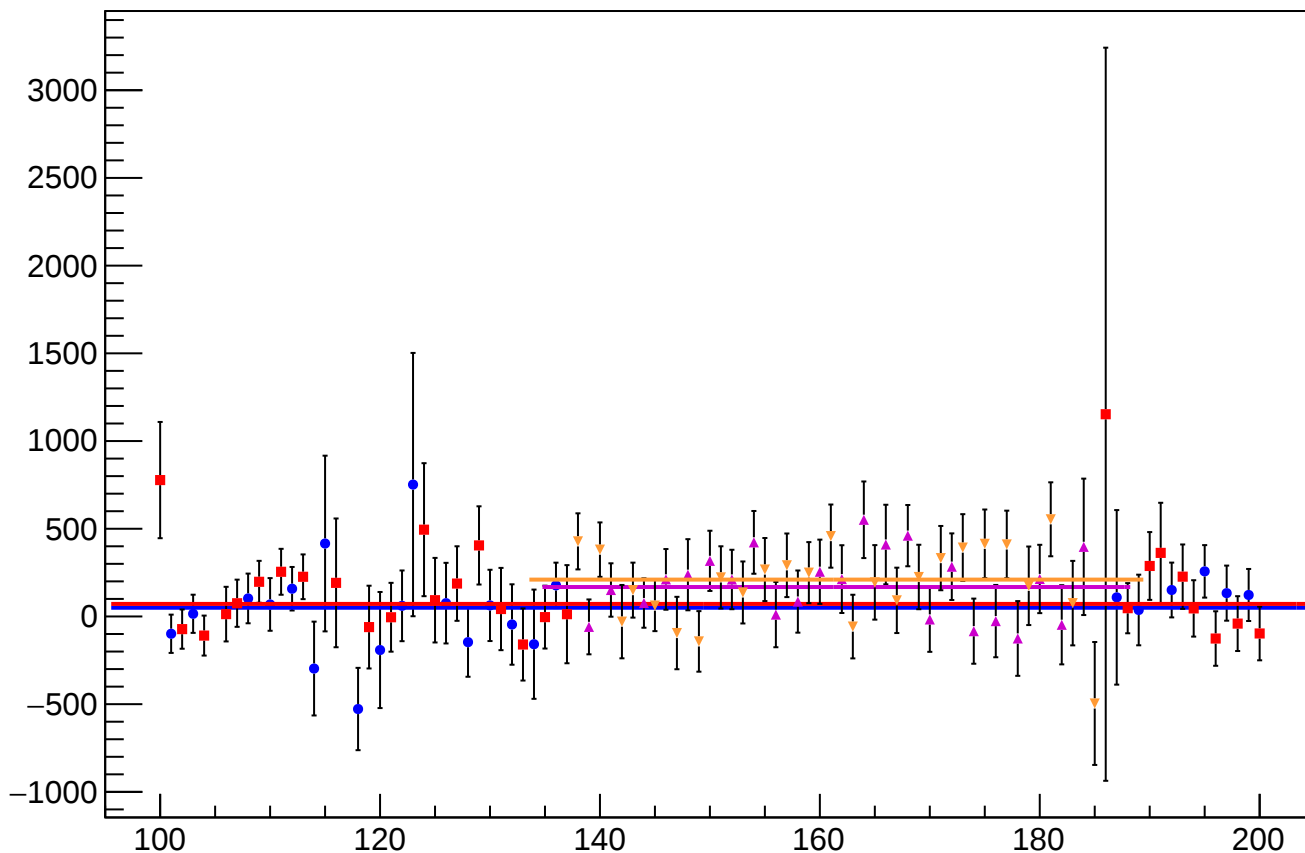
Right: 5024.090+/-1.144 χ^2/NDF : 940758.5/21

In: 2121.782+/-0.338 χ^2/NDF : 3612244.9/32

Out: 2159.741+/-0.328 χ^2/NDF : 5454435.5/36

All: 2141.313+/-0.235 χ^2/NDF : 9073170.8/69

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 49.757 ± 36.332 $\chi^2/\text{NDF}: 18.0/22$

Left Out: 210.086 ± 37.093 $\chi^2/\text{NDF}: 27.5/24$

Right Out: 71.532 ± 32.654 $\chi^2/\text{NDF}: 25.9/27$

Left In: 167.822 ± 38.718 $\chi^2/\text{NDF}: 21.1/22$

Left: 189.859 ± 26.785 $\chi^2/\text{NDF}: 49.3/47$

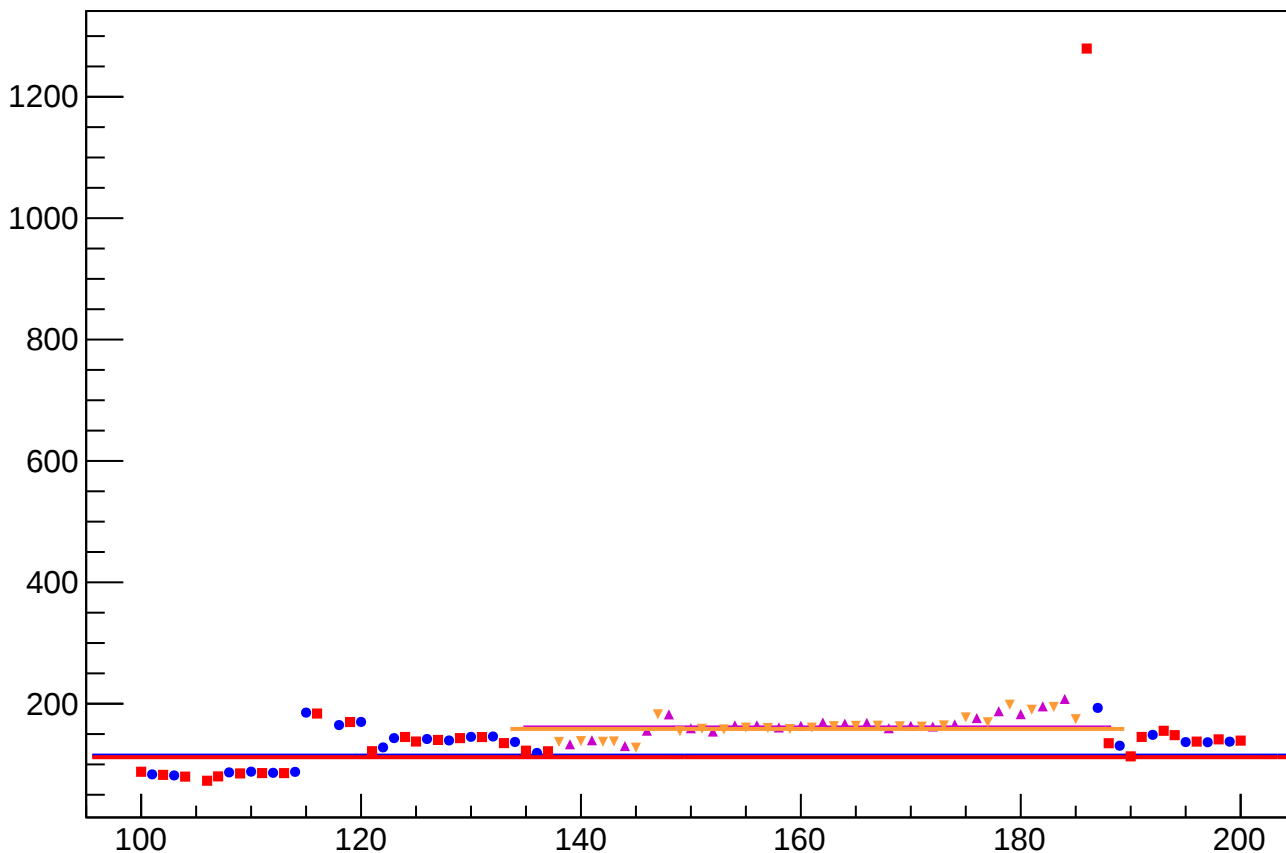
Right: 61.802 ± 24.286 $\chi^2/\text{NDF}: 44.1/50$

In: 105.039 ± 26.494 $\chi^2/\text{NDF}: 44.1/45$

Out: 132.024 ± 24.510 $\chi^2/\text{NDF}: 61.3/52$

All: 119.580 ± 17.992 $\chi^2/\text{NDF}: 106.0/98$

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 114.536 $\pm$ 0.026 χ^2 /NDF: 1252247.0/22

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 111.853 $\pm$ 0.023 χ^2 /NDF: 2302975.4/27

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

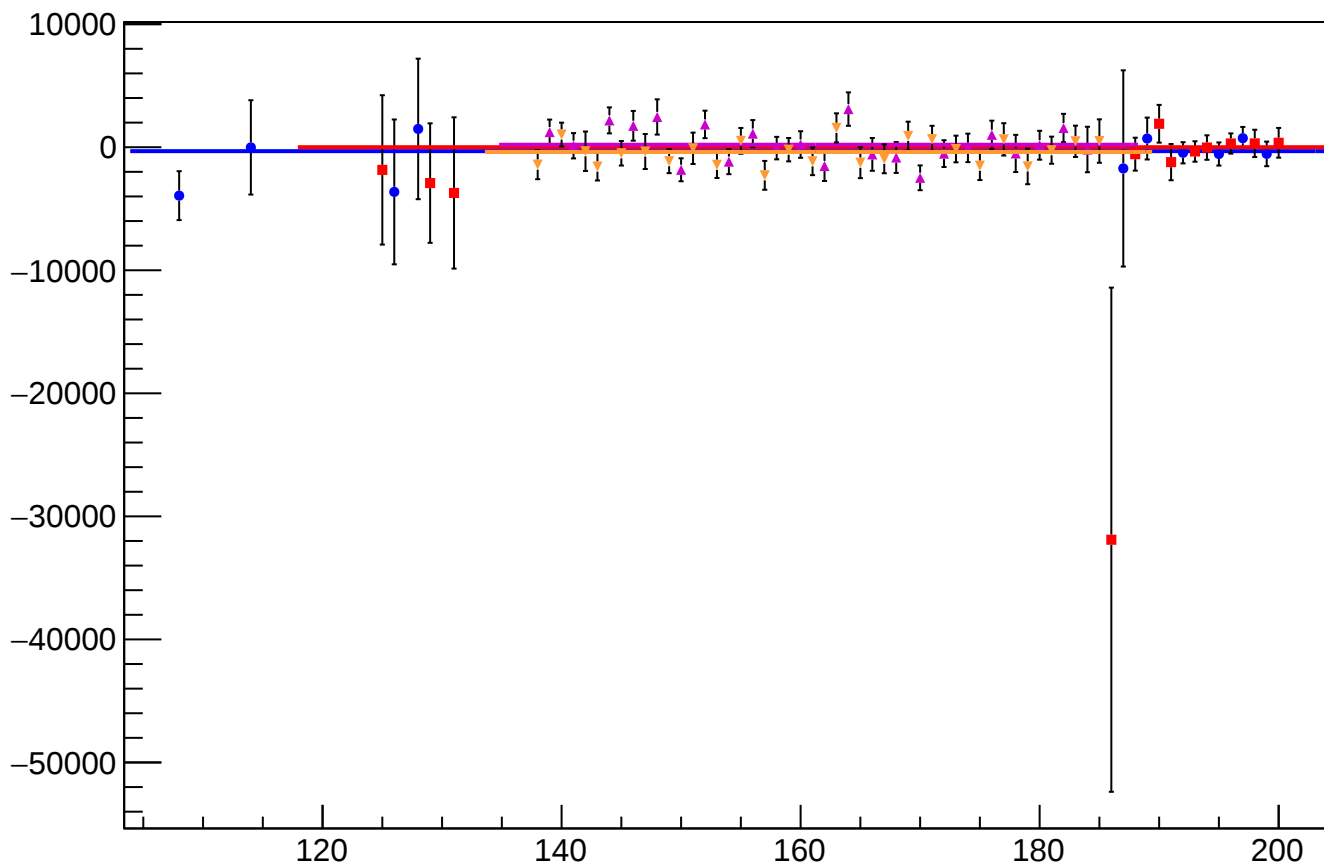
Right: 113.052 $\pm$ 0.017 χ^2 /NDF: 3561257.3/50

In: 136.268 $\pm$ 0.019 χ^2 /NDF: 3160108.3/45

Out: 132.193 $\pm$ 0.017 χ^2 /NDF: 4514685.2/52

All: 134.072 $\pm$ 0.013 χ^2 /NDF: 7700284.7/98

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -319.537 ± 429.447 χ^2/NDF : 5.6/9

Left Out: -385.018 ± 231.833 χ^2/NDF : 18.1/24

Right Out: 1.848 ± 378.257 χ^2/NDF : 6.1/11

Left In: 202.234 ± 237.460 χ^2/NDF : 35.5/22

Left: -98.432 ± 165.884 χ^2/NDF : 56.7/47

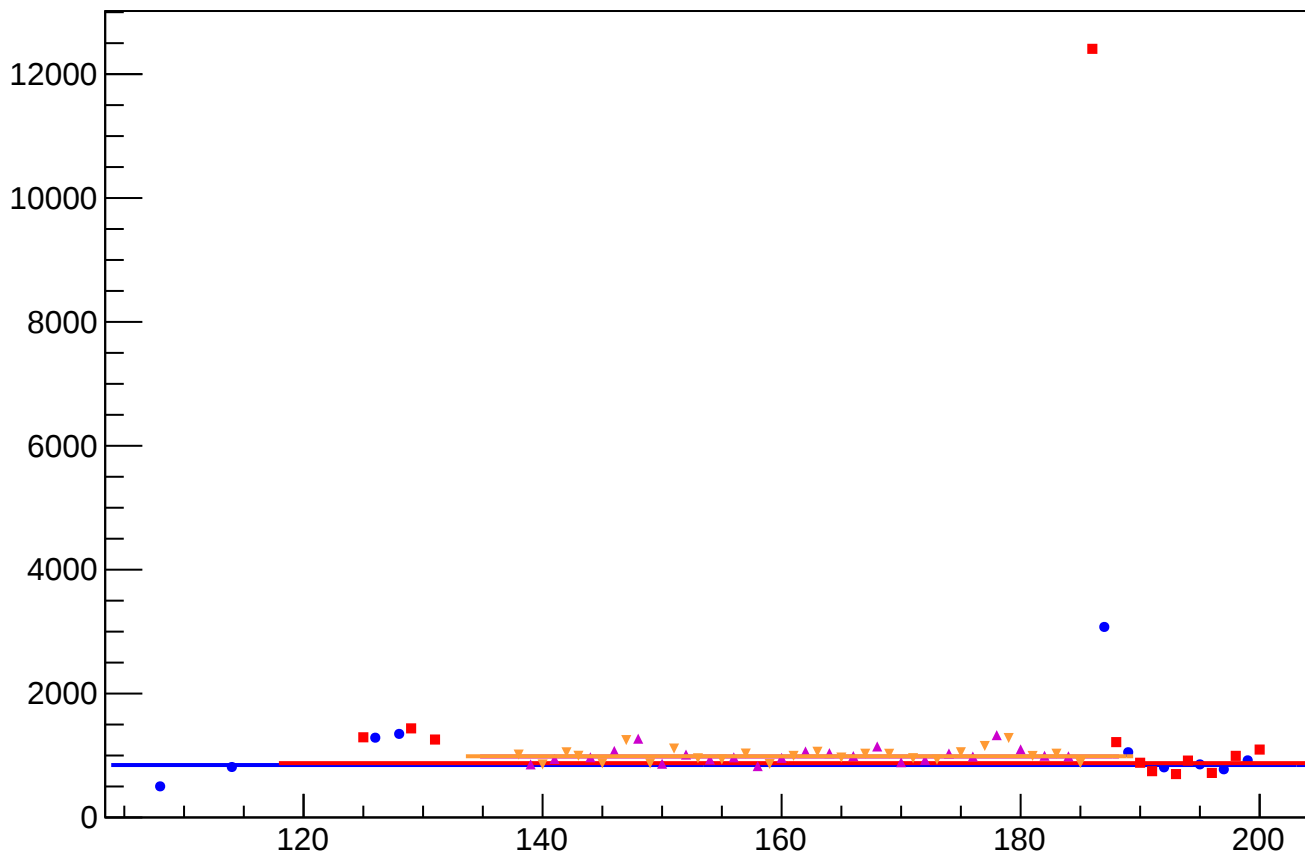
Right: -138.558 ± 283.850 χ^2/NDF : 12.0/21

In: 80.059 ± 207.807 χ^2/NDF : 42.2/32

Out: -279.378 ± 197.662 χ^2/NDF : 24.9/36

All: -108.647 ± 143.220 χ^2/NDF : 68.7/69

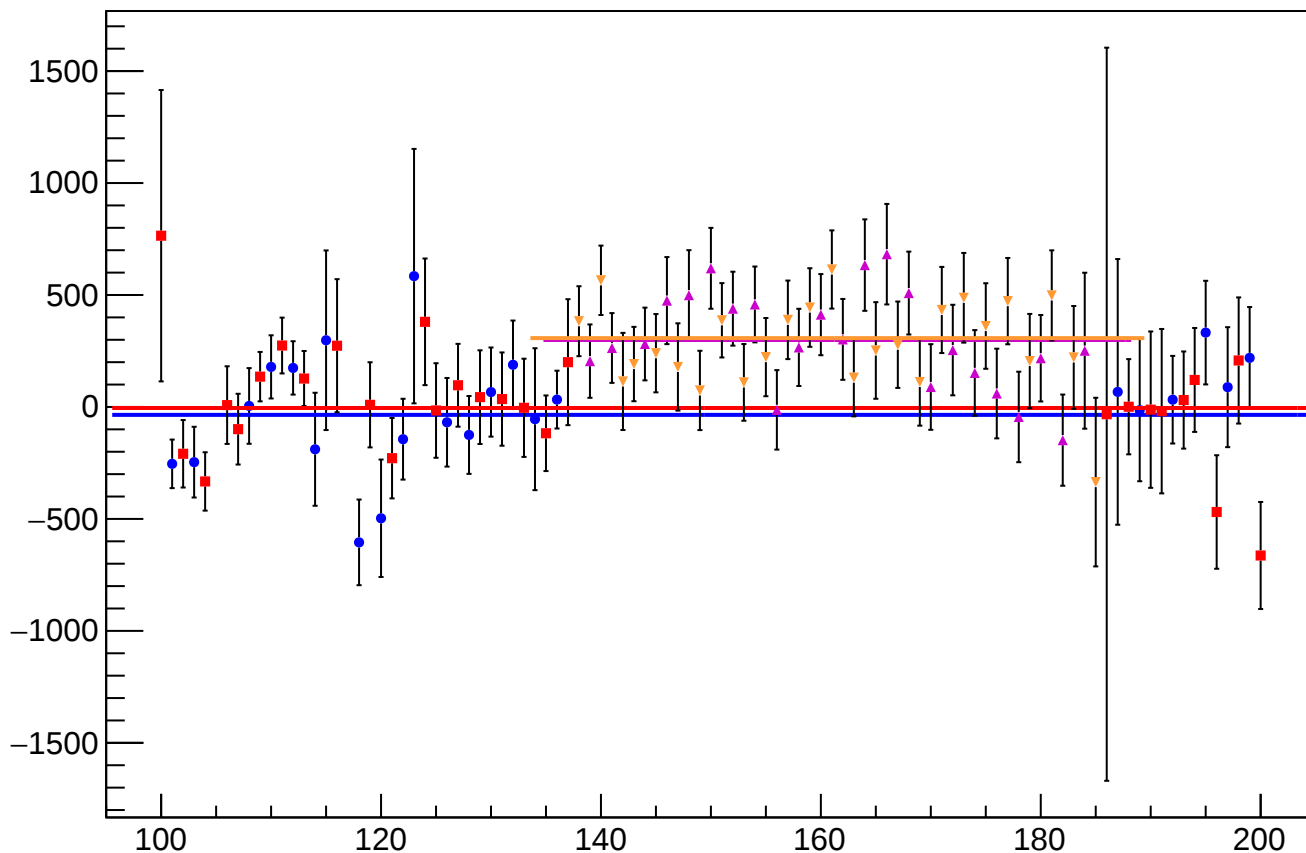
asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 846.285+/-0.304 χ^2/NDF : 299604.5/9
 Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24
 Right Out: 876.919+/-0.267 χ^2/NDF : 1078090.1/11
 Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47
 Right: 863.535+/-0.201 χ^2/NDF : 1383425.5/21
 In: 951.671+/-0.147 χ^2/NDF : 873139.5/32
 Out: 957.572+/-0.140 χ^2/NDF : 1580133.5/36
 All: 954.769+/-0.101 χ^2/NDF : 2454119.6/69

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -35.307 ± 39.259 $\chi^2/\text{NDF}: 32.2/22$

Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$

Right Out: -4.544 ± 36.191 $\chi^2/\text{NDF}: 35.2/27$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

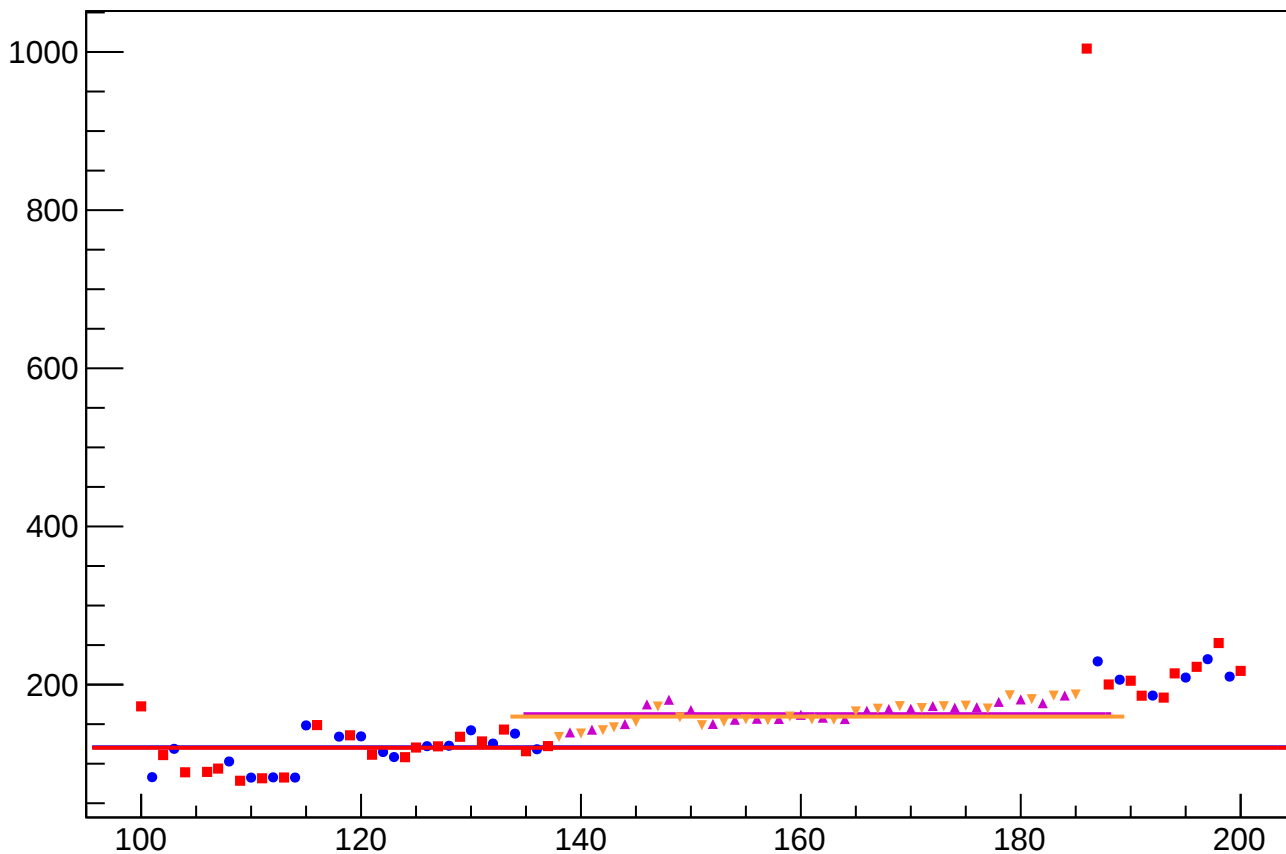
Right: -18.676 ± 26.609 $\chi^2/\text{NDF}: 67.7/50$

In: 133.010 ± 27.671 $\chi^2/\text{NDF}: 97.2/45$

Out: 146.857 ± 25.966 $\chi^2/\text{NDF}: 92.0/52$

All: 140.373 ± 18.935 $\chi^2/\text{NDF}: 189.3/98$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 120.716 $\pm$ 0.028 χ^2 /NDF: 2104108.6/22

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF:287744.2/24

Right Out: 120.170 $\pm$ 0.026 χ^2 /NDF: 3639071.1/27

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

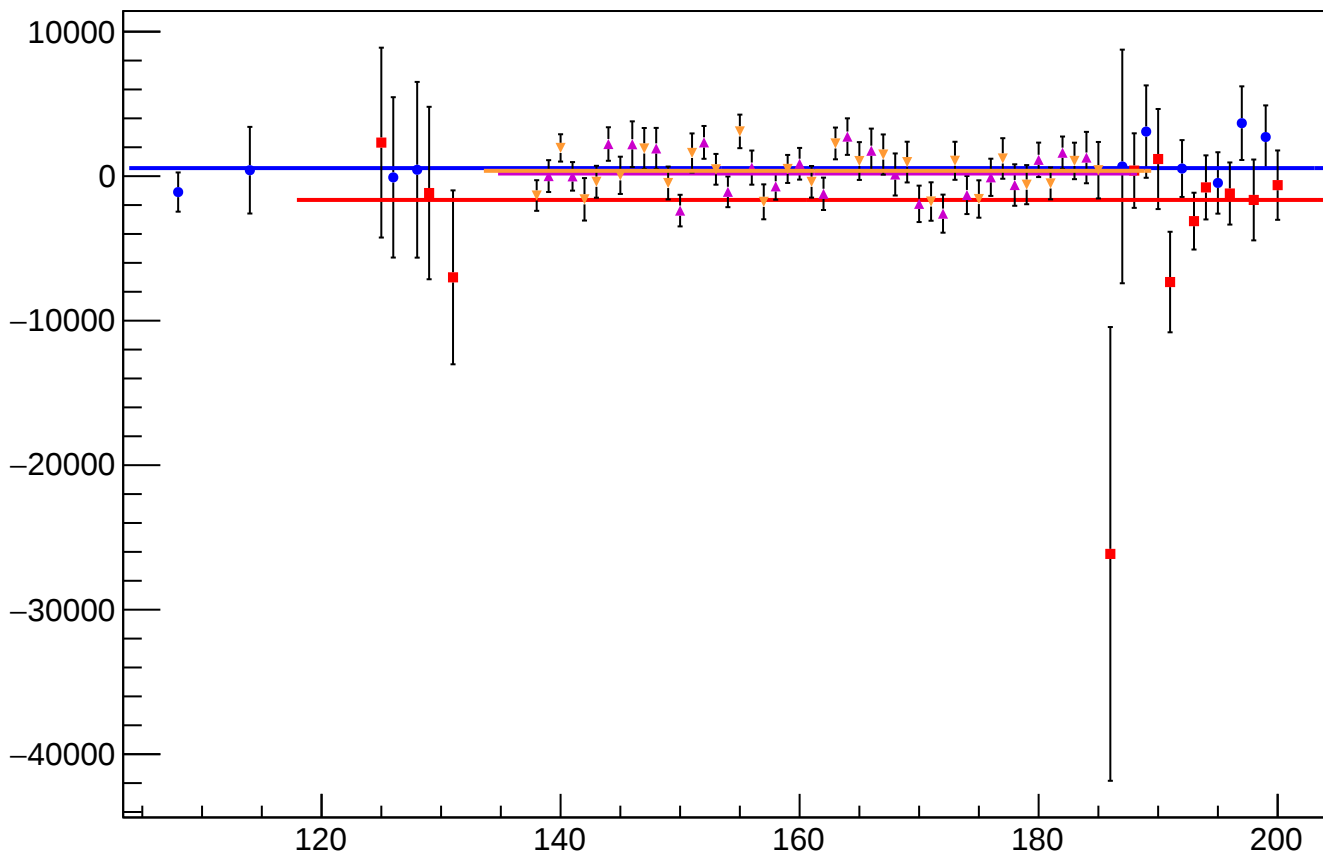
Right: 120.421 $\pm$ 0.019 χ^2 /NDF: 5743388.7/50

In: 141.795 $\pm$ 0.020 χ^2 /NDF:3449472.3/45

Out: 139.287 $\pm$ 0.018 χ^2 /NDF:5076852.8/52

All: 140.461 $\pm$ 0.013 χ^2 /NDF: 8535062.8/98

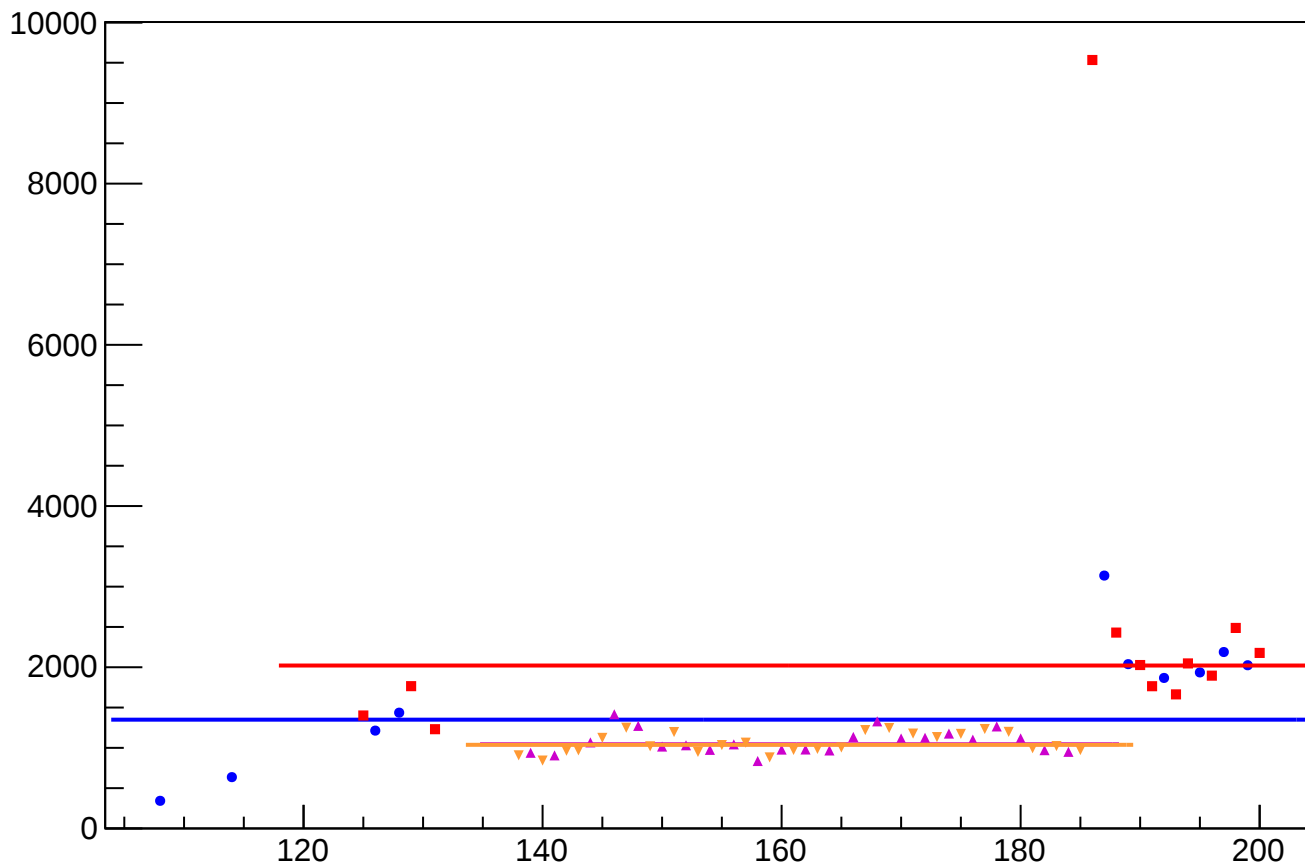
asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 557.633+/-773.895 χ^2/NDF : 4.8/9
 Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24
 Right Out: -1645.060+/-851.415 χ^2/NDF : 8.5/11
 Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47
 Right: -438.894+/-572.676 χ^2/NDF : 17.0/21
 In: 219.078+/-239.838 χ^2/NDF :41.5/32
 Out: 217.621+/-234.132 χ^2/NDF :44.1/36
 All: 218.332+/-167.537 χ^2/NDF : 85.7/69

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1349.680+/-0.547 χ^2/NDF : 2104386.0/9

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 2021.397+/-0.602 χ^2/NDF : 712482.0/11

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

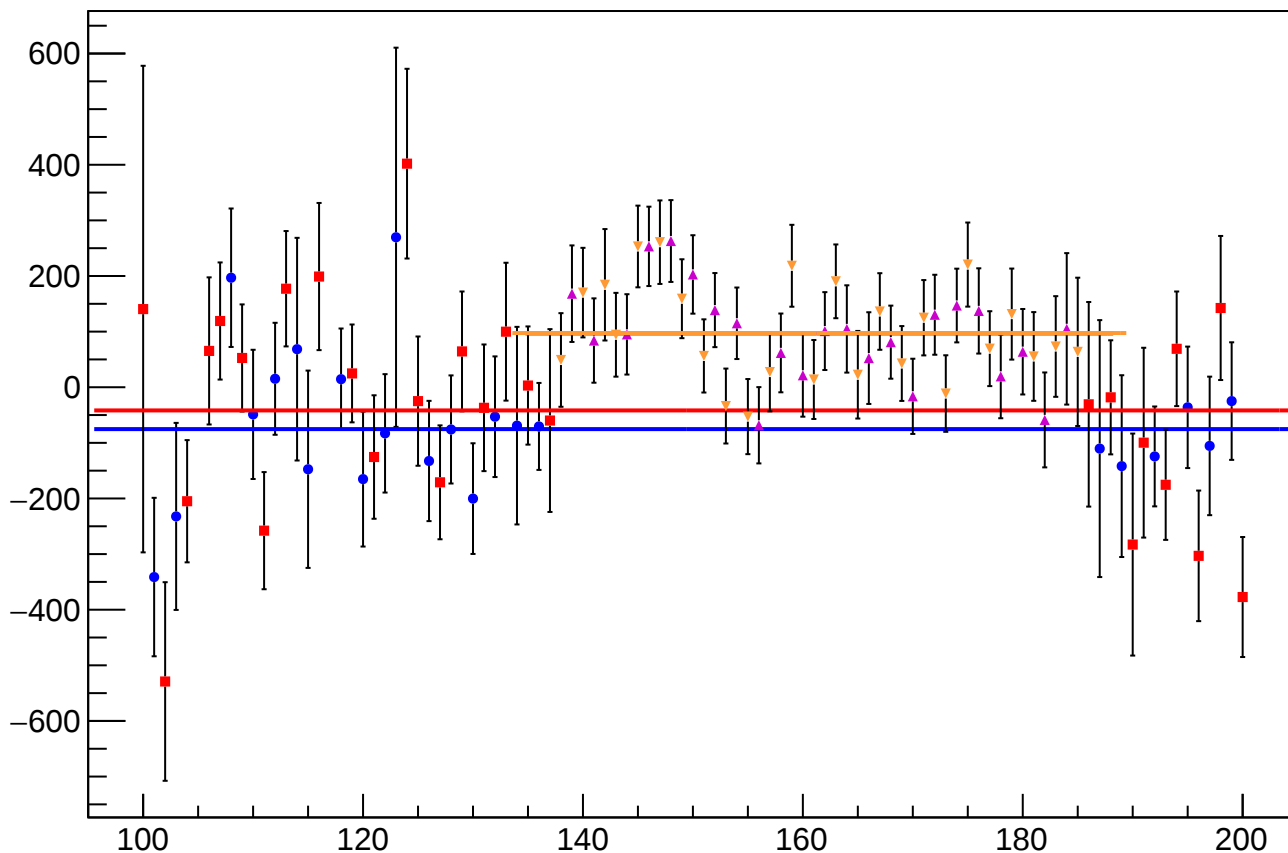
Right: 1653.574+/-0.405 χ^2/NDF : 3498537.5/21

In: 1074.033+/-0.170 χ^2/NDF : 2928390.6/32

Out: 1112.078+/-0.166 χ^2/NDF : 3675380.4/36

All: 1093.513+/-0.118 χ^2/NDF : 6629539.2/69

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -75.291 ± 24.582 $\chi^2/\text{NDF}: 16.0/22$

Left Out: 97.445 ± 14.880 $\chi^2/\text{NDF}: 36.0/24$

Right Out: -41.685 ± 22.466 $\chi^2/\text{NDF}: 59.0/27$

Left In: 96.704 ± 15.369 $\chi^2/\text{NDF}: 29.2/22$

Left: 97.087 ± 10.690 $\chi^2/\text{NDF}: 65.2/47$

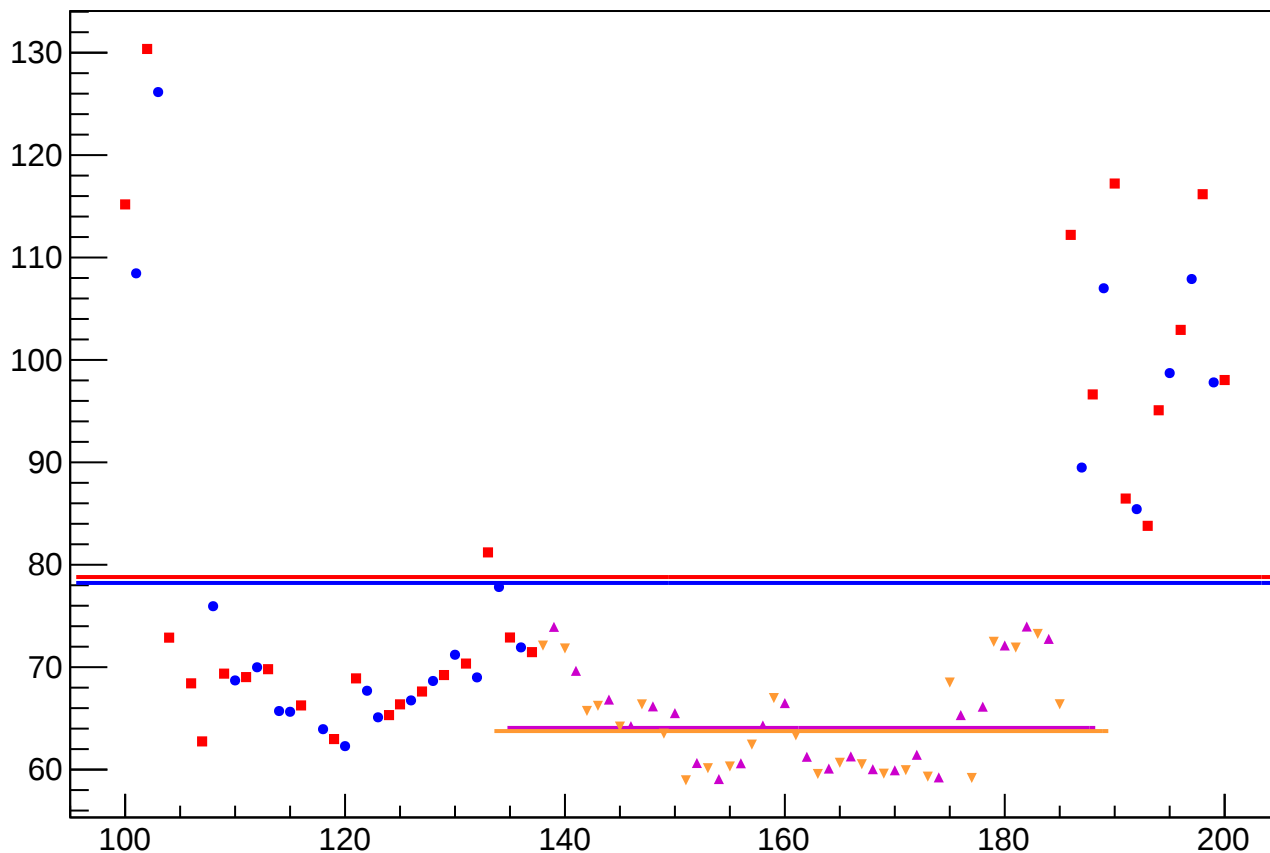
Right: -56.980 ± 16.583 $\chi^2/\text{NDF}: 76.1/50$

In: 48.365 ± 13.032 $\chi^2/\text{NDF}: 80.5/45$

Out: 55.022 ± 12.406 $\chi^2/\text{NDF}: 121.7/52$

All: 51.858 ± 8.985 $\chi^2/\text{NDF}: 202.3/98$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 78.224+/-0.017 χ^2/NDF : 815669.2/22

Left Out: 63.761+/-0.011 χ^2/NDF : 192803.8/24

Right Out: 78.801+/-0.016 χ^2/NDF : 1066471.1/27

Left In: 64.069+/-0.011 χ^2/NDF : 164660.4/22

Left: 63.910+/-0.008 χ^2/NDF : 357877.2/47

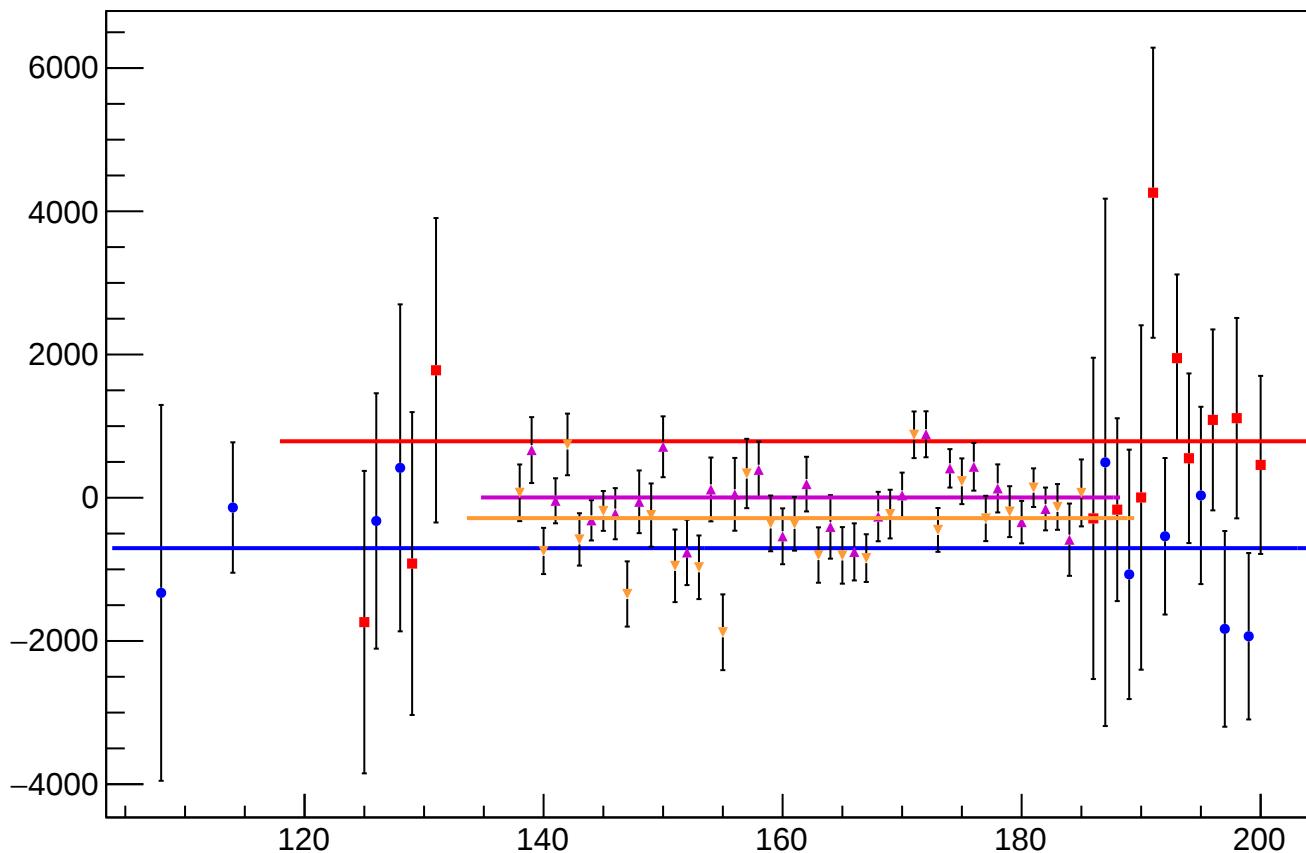
Right: 78.539+/-0.012 χ^2/NDF : 1882740.7/50

In: 68.047+/-0.009 χ^2/NDF : 1457170.7/45

Out: 68.347+/-0.009 χ^2/NDF : 1882333.9/52

All: 68.204+/-0.006 χ^2/NDF : 3340060.9/98

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -703.828 ± 445.996 $\chi^2/\text{NDF}: 3.1/9$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 788.654 ± 441.618 $\chi^2/\text{NDF}: 7.3/11$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

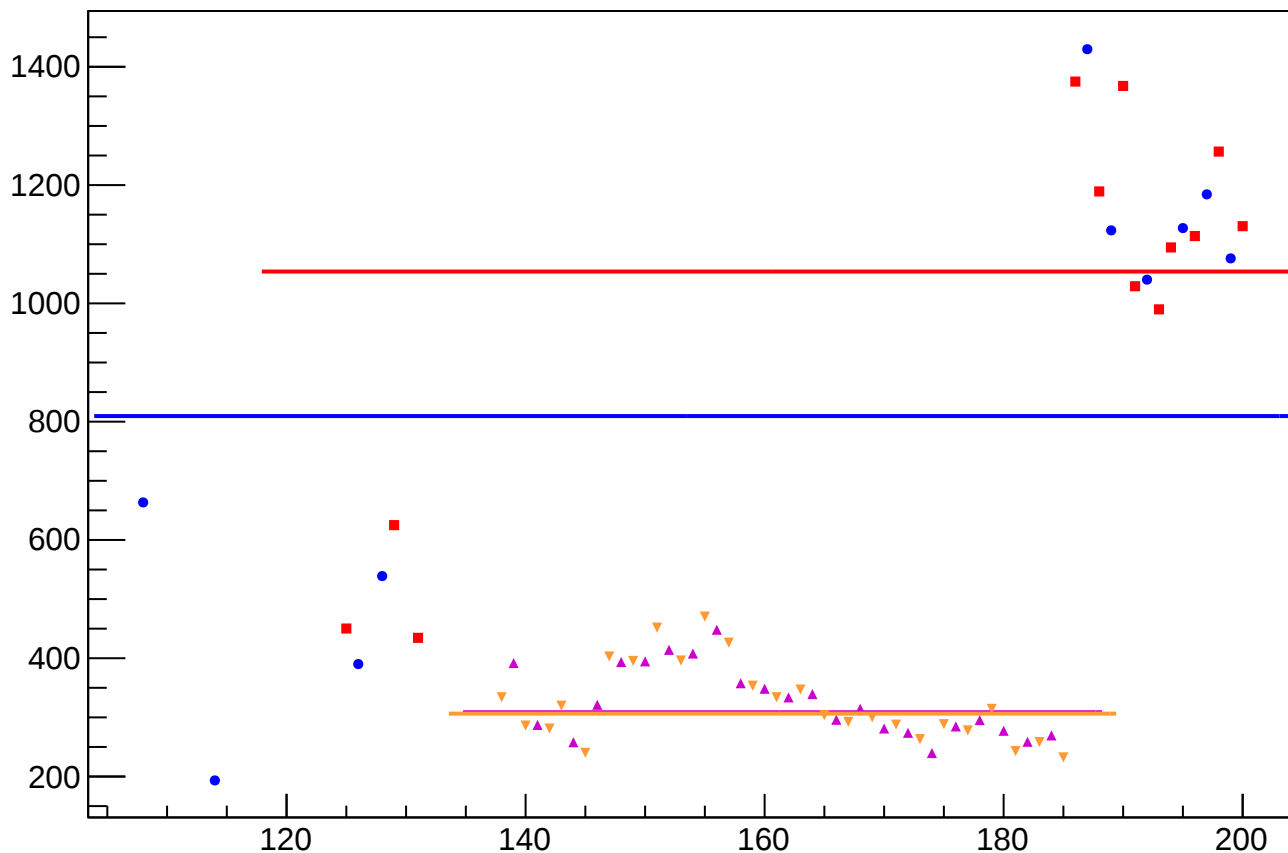
Right: 49.774 ± 313.807 $\chi^2/\text{NDF}: 16.1/21$

In: -15.473 ± 74.042 $\chi^2/\text{NDF}: 37.9/32$

Out: -255.969 ± 71.766 $\chi^2/\text{NDF}: 68.1/36$

All: -139.475 ± 51.532 $\chi^2/\text{NDF}: 111.4/69$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 809.451+/-0.315 χ^2/NDF : 1658914.9/9

Left Out: 306.363+/-0.051 χ^2/NDF :1215669.9/24

Right Out: 1053.823+/-0.312 χ^2/NDF : 575775.1/11

Left In: 308.727+/-0.053 χ^2/NDF :1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

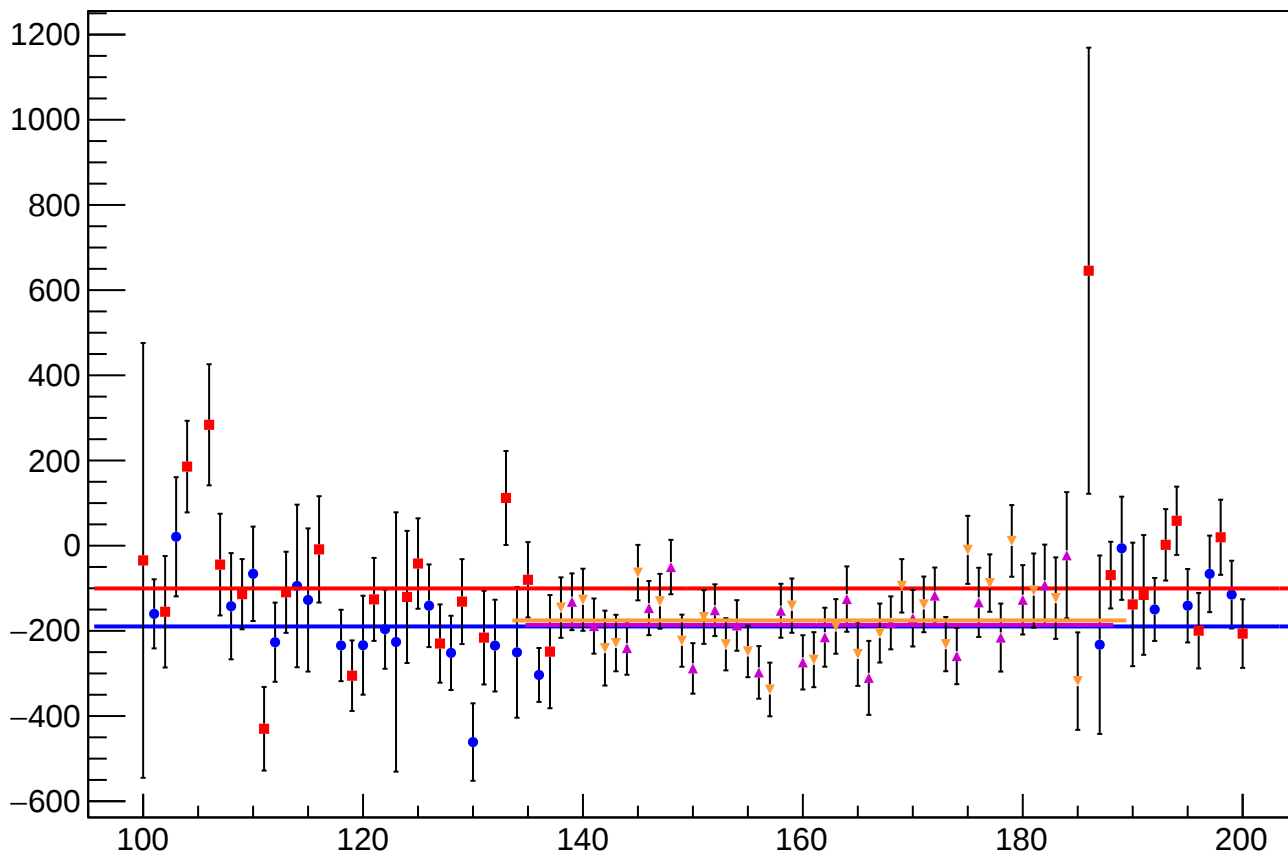
Right: 932.842+/-0.222 χ^2/NDF : 2537872.9/21

In: 322.527+/-0.052 χ^2/NDF :5113339.4/32

Out: 326.102+/-0.051 χ^2/NDF :7369588.1/36

All: 324.370+/-0.036 χ^2/NDF : 12485331.3/69

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -189.670 ± 20.860 $\chi^2/\text{NDF}: 23.7/22$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -100.421 ± 19.549 $\chi^2/\text{NDF}: 53.8/27$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

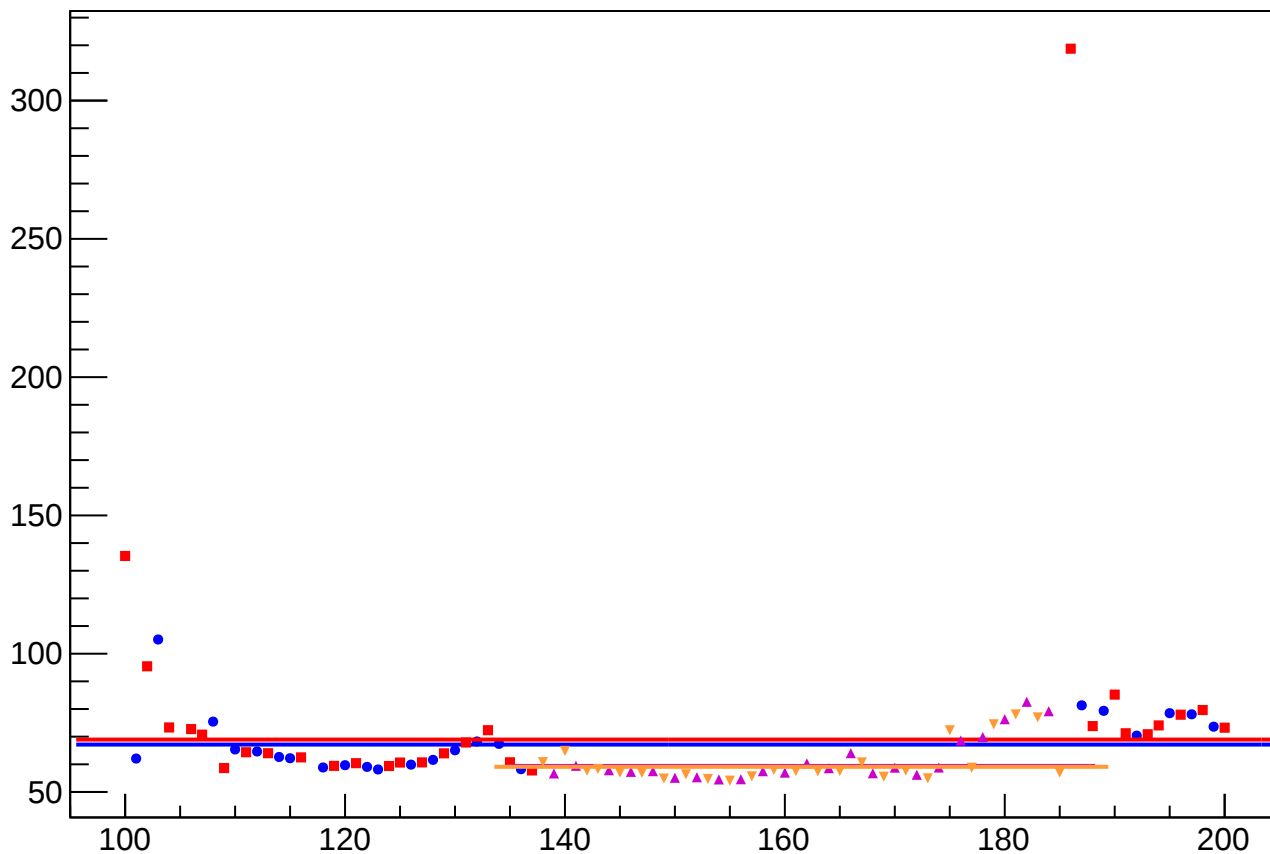
Right: -142.154 ± 14.264 $\chi^2/\text{NDF}: 87.3/50$

In: -187.207 ± 11.803 $\chi^2/\text{NDF}: 47.3/45$

Out: -150.400 ± 11.299 $\chi^2/\text{NDF}: 98.3/52$

All: -168.000 ± 8.162 $\chi^2/\text{NDF}: 150.7/98$

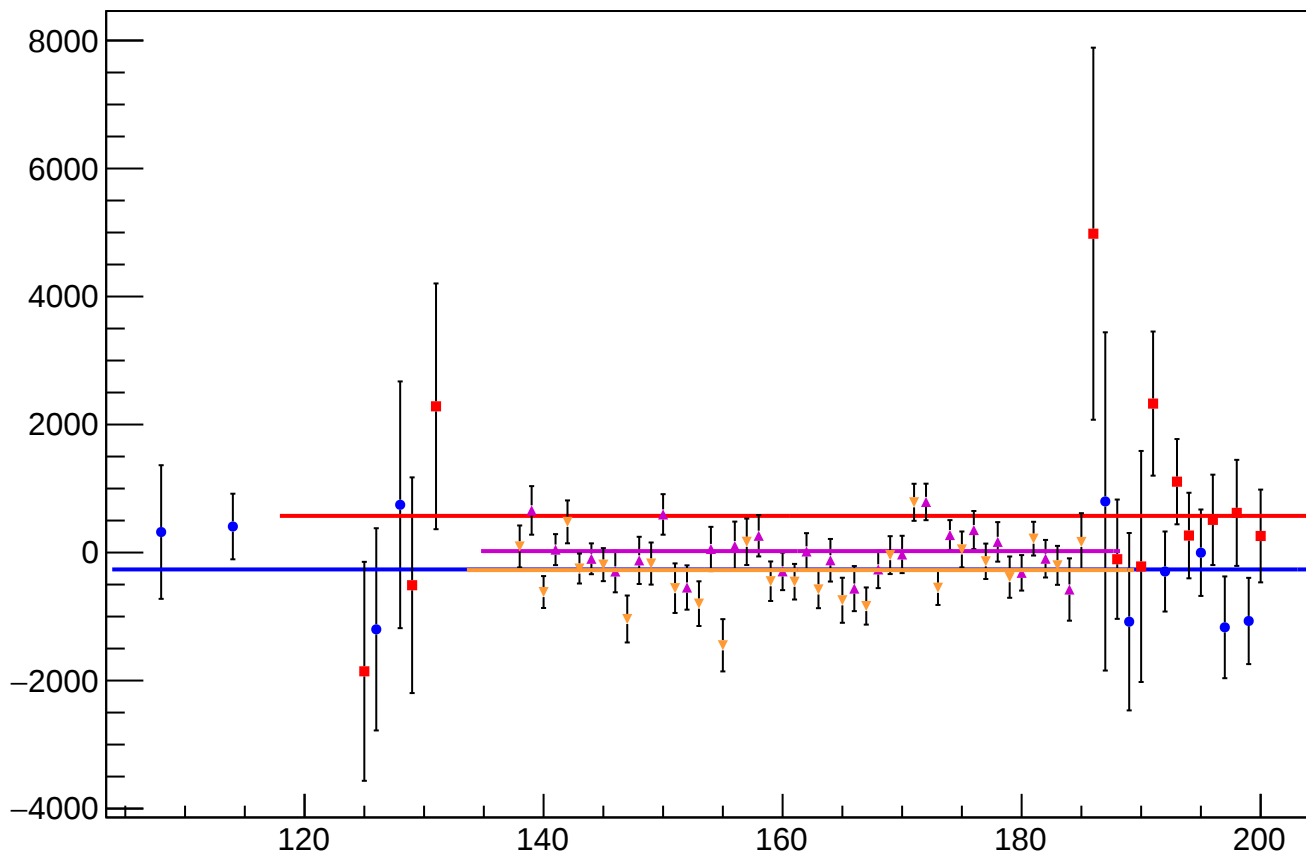
reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.144 $\pm$ 0.015 χ^2 /NDF: 384465.2/22
Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24
Right Out: 68.951 $\pm$ 0.014 χ^2 /NDF: 836603.1/27
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: 68.106 $\pm$ 0.010 χ^2 /NDF: 1229065.4/50
In: 61.886 $\pm$ 0.008 χ^2 /NDF: 944394.3/45
Out: 62.390 $\pm$ 0.008 χ^2 /NDF: 1544676.1/52
All: 62.149 $\pm$ 0.006 χ^2 /NDF: 2490974.2/98

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -263.806 ± 261.726 $\chi^2/\text{NDF}: 6.0/9$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 572.852 ± 275.339 $\chi^2/\text{NDF}: 9.7/11$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

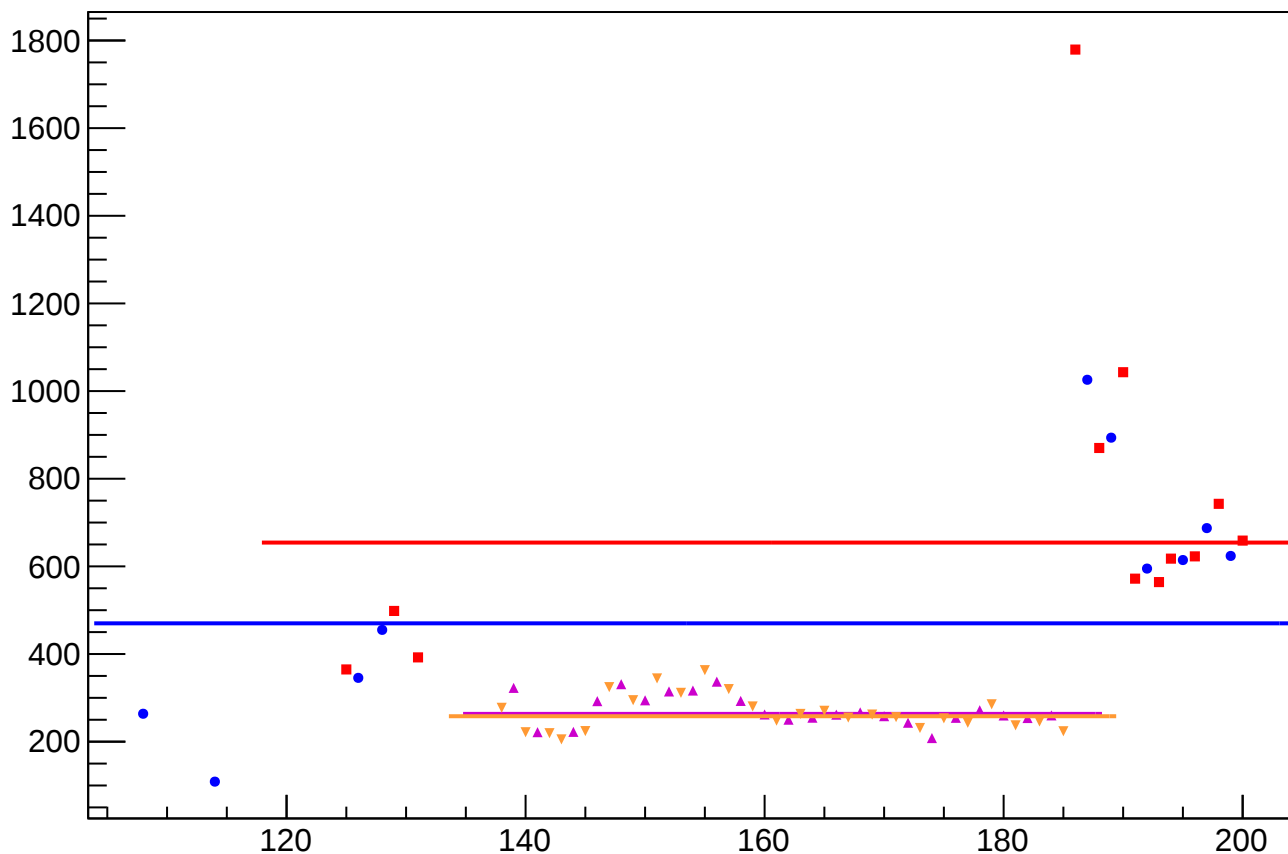
Right: 133.329 ± 189.698 $\chi^2/\text{NDF}: 20.6/21$

In: 6.639 ± 61.841 $\chi^2/\text{NDF}: 36.1/32$

Out: -234.714 ± 59.369 $\chi^2/\text{NDF}: 72.7/36$

All: -118.958 ± 42.827 $\chi^2/\text{NDF}: 116.6/69$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 470.020 $\pm$ 0.185 χ^2 /NDF: 1785475.0/9

Left Out: 258.040 $\pm$ 0.043 χ^2 /NDF: 724823.3/24

Right Out: 654.309 $\pm$ 0.195 χ^2 /NDF: 691562.1/11

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

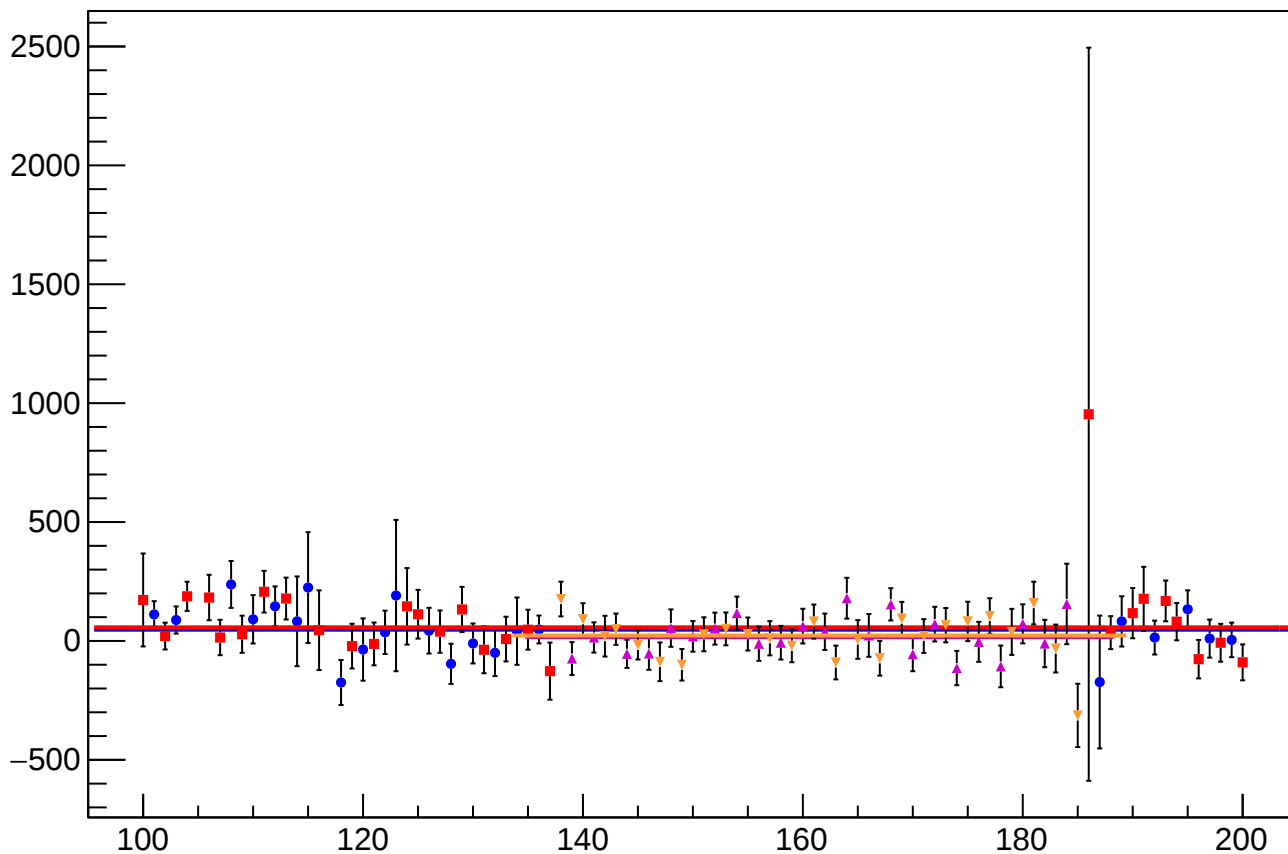
Right: 557.496 $\pm$ 0.134 χ^2 /NDF: 2947718.6/21

In: 274.932 $\pm$ 0.044 χ^2 /NDF: 3547987.9/32

Out: 276.464 $\pm$ 0.042 χ^2 /NDF: 5366386.4/36

All: 275.729 $\pm$ 0.030 χ^2 /NDF: 8915012.6/69

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 47.410 $\pm$ 18.387 χ^2 /NDF: 20.9/22

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 57.269 $\pm$ 16.833 χ^2 /NDF: 29.0/27

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

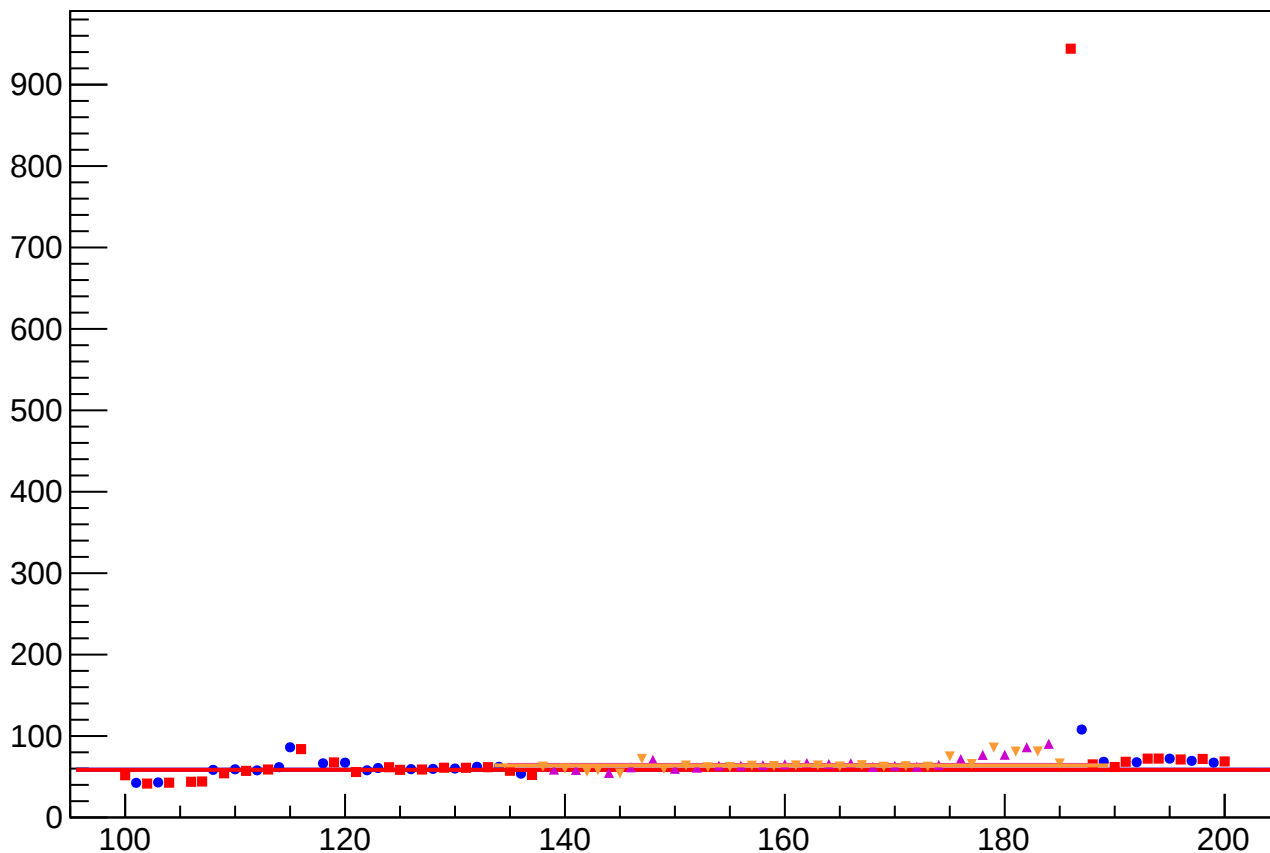
Right: 52.774 $\pm$ 12.416 χ^2 /NDF: 50.1/50

In: 29.194 $\pm$ 11.865 χ^2 /NDF:45.9/45

Out: 38.060 $\pm$ 11.185 χ^2 /NDF:60.3/52

All: 33.888 $\pm$ 8.139 χ^2 /NDF: 106.5/98

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 58.706 $\pm$ 0.013 χ^2 /NDF: 624470.2/22

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 58.488 $\pm$ 0.012 χ^2 /NDF: 1469278.4/27

Left In: 64.511 $\pm$ 0.011 χ^2 /NDF: 370515.2/22

Left: 64.204 $\pm$ 0.008 χ^2 /NDF: 767426.6/47

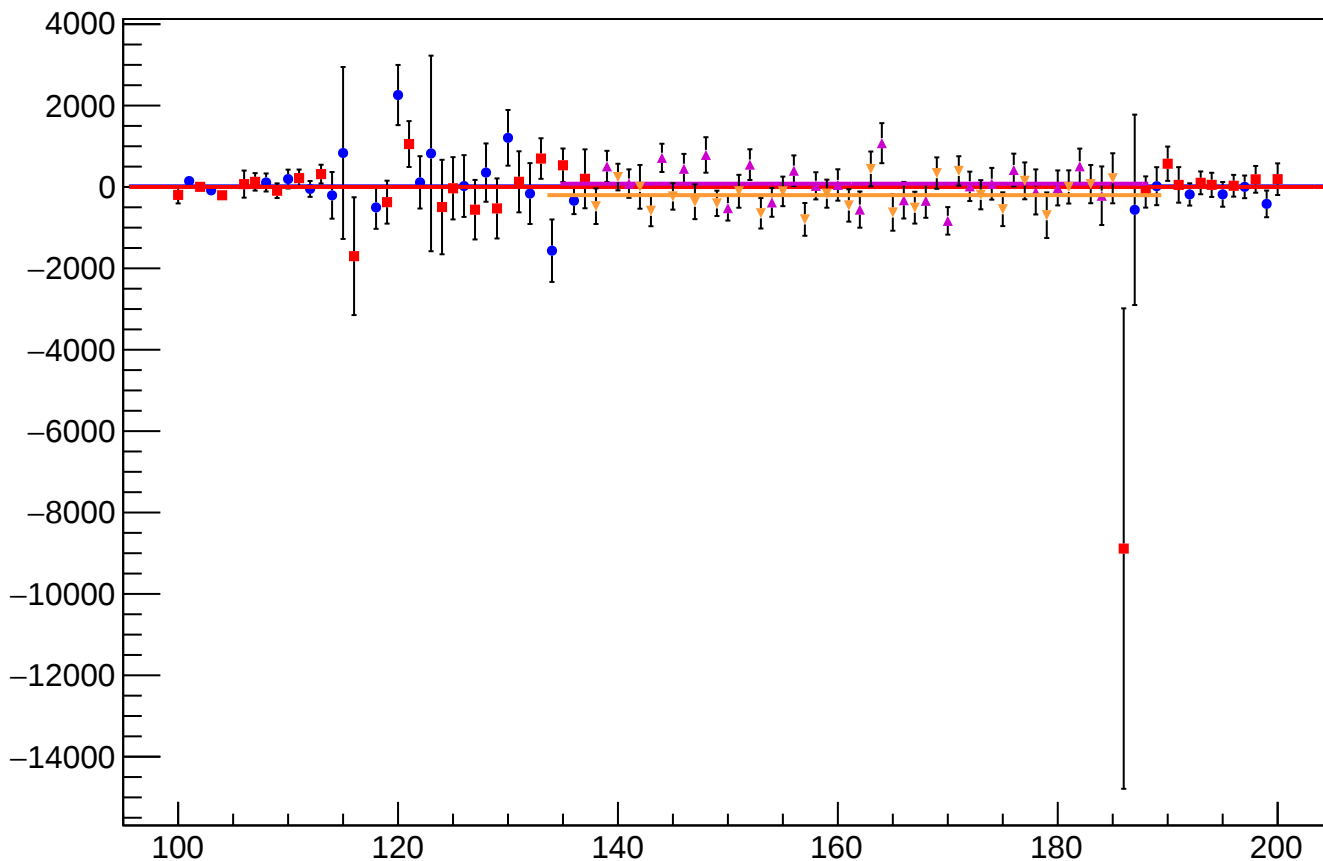
Right: 58.587 $\pm$ 0.009 χ^2 /NDF: 2093901.6/50

In: 62.094 $\pm$ 0.008 χ^2 /NDF: 1111319.8/45

Out: 61.521 $\pm$ 0.008 χ^2 /NDF: 1980999.3/52

All: 61.791 $\pm$ 0.006 χ^2 /NDF: 3094784.3/98

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 14.959+/-48.374 χ^2/NDF : 26.8/22

Left Out: -201.082+/-79.549 χ^2/NDF :19.7/24

Right Out: 0.313+/-48.572 χ^2/NDF : 23.9/27

Left In: 79.985+/-81.781 χ^2/NDF :33.4/22

Left: -64.438+/-57.022 χ^2/NDF : 59.1/47

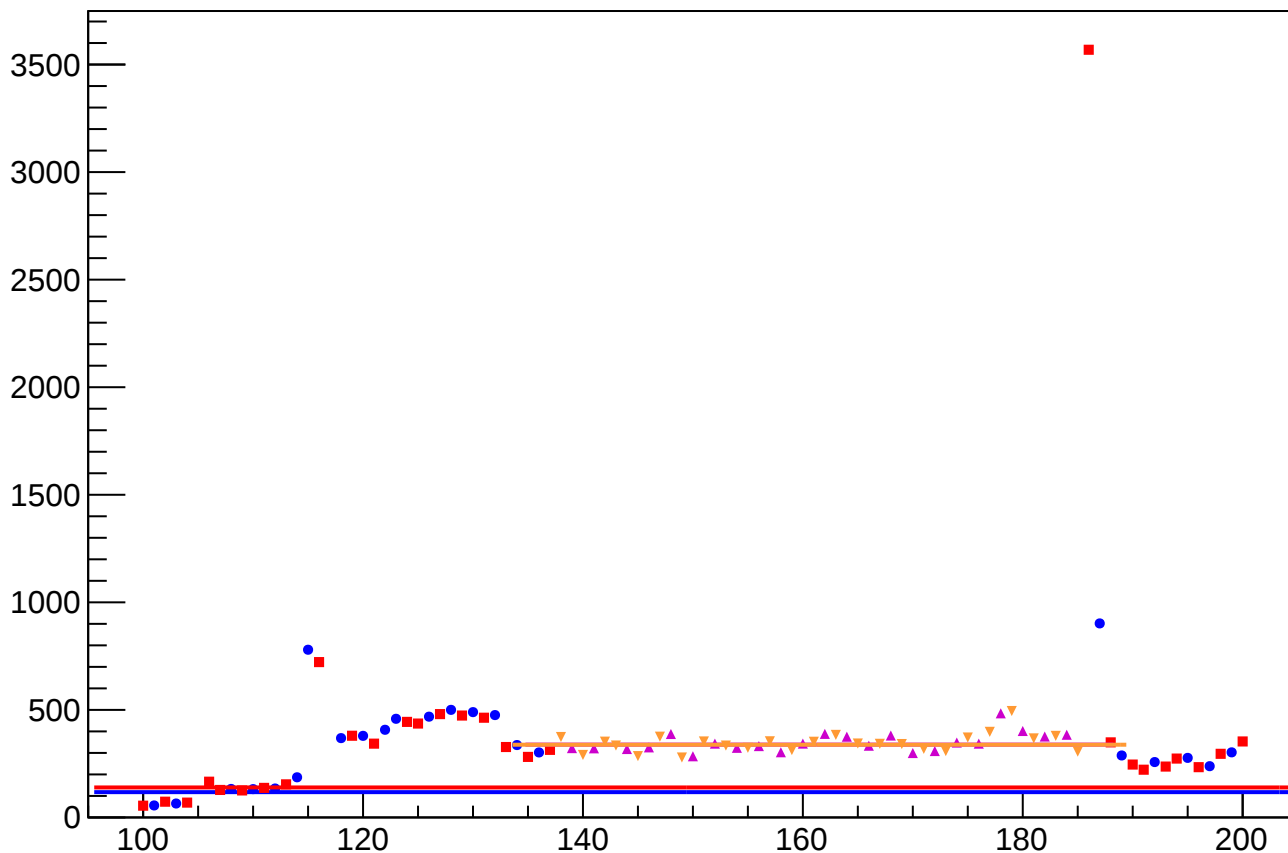
Right: 7.666+/-34.276 χ^2/NDF : 50.7/50

In: 31.814+/-41.636 χ^2/NDF :60.6/45

Out: -54.382+/-41.455 χ^2/NDF :48.3/52

All: -11.471+/-29.377 χ^2/NDF : 111.0/98

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 117.645 $\pm$ 0.034 χ^2 /NDF: 8702548.8/22

Left Out: 338.130 $\pm$ 0.056 χ^2 /NDF: 498601.7/24

Right Out: 139.493 $\pm$ 0.034 χ^2 /NDF: 8954220.7/27

Left In: 338.564 $\pm$ 0.058 χ^2 /NDF: 437243.0/22

Left: 338.341 $\pm$ 0.040 χ^2 /NDF: 935873.7/47

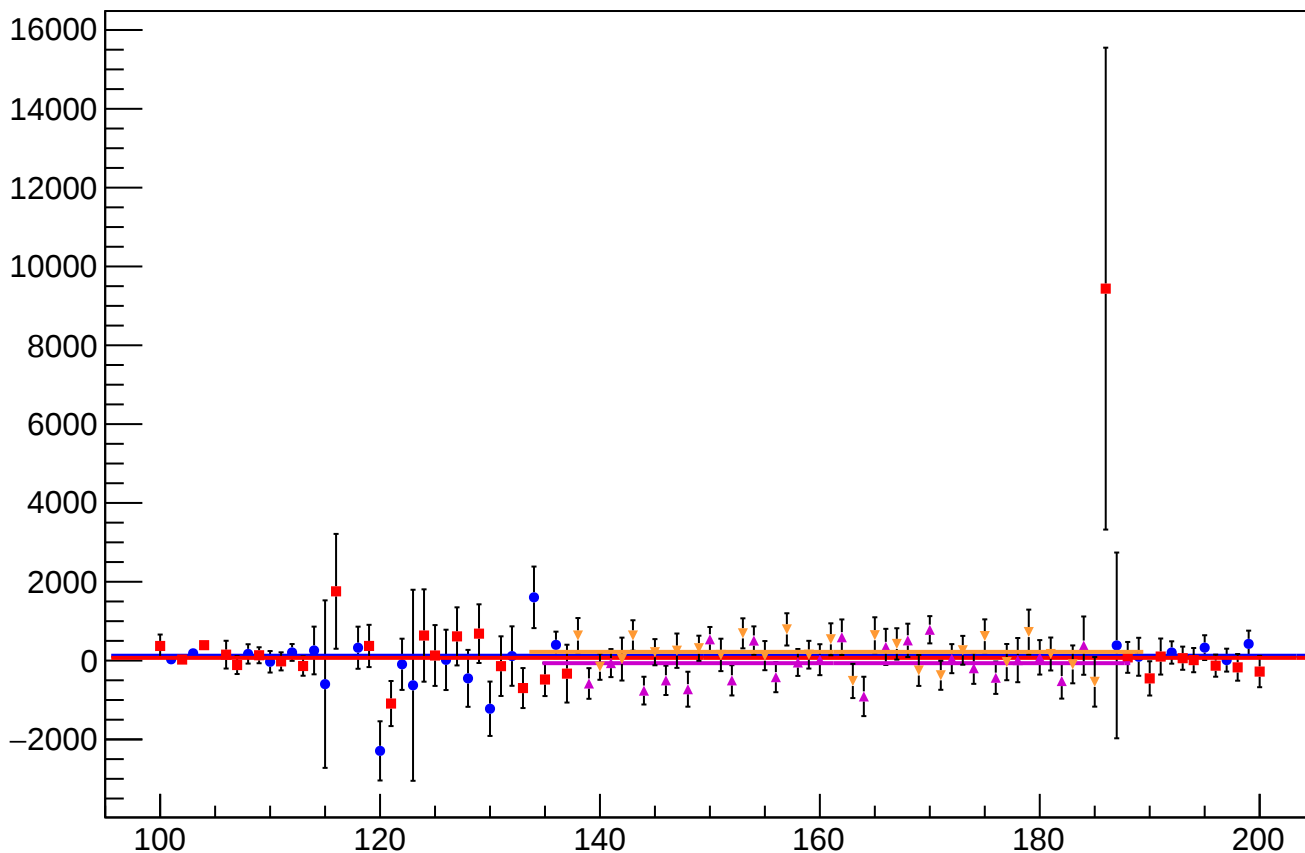
Right: 128.524 $\pm$ 0.024 χ^2 /NDF: 17859921.9/50

In: 174.905 $\pm$ 0.029 χ^2 /NDF: 19951558.0/45

Out: 193.438 $\pm$ 0.029 χ^2 /NDF: 18536607.6/52

All: 184.212 $\pm$ 0.021 χ^2 /NDF: 38687159.6/98

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 123.144 $\pm$ 57.909 χ^2 /NDF: 22.6/22

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 69.308 $\pm$ 54.517 χ^2 /NDF: 27.2/27

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

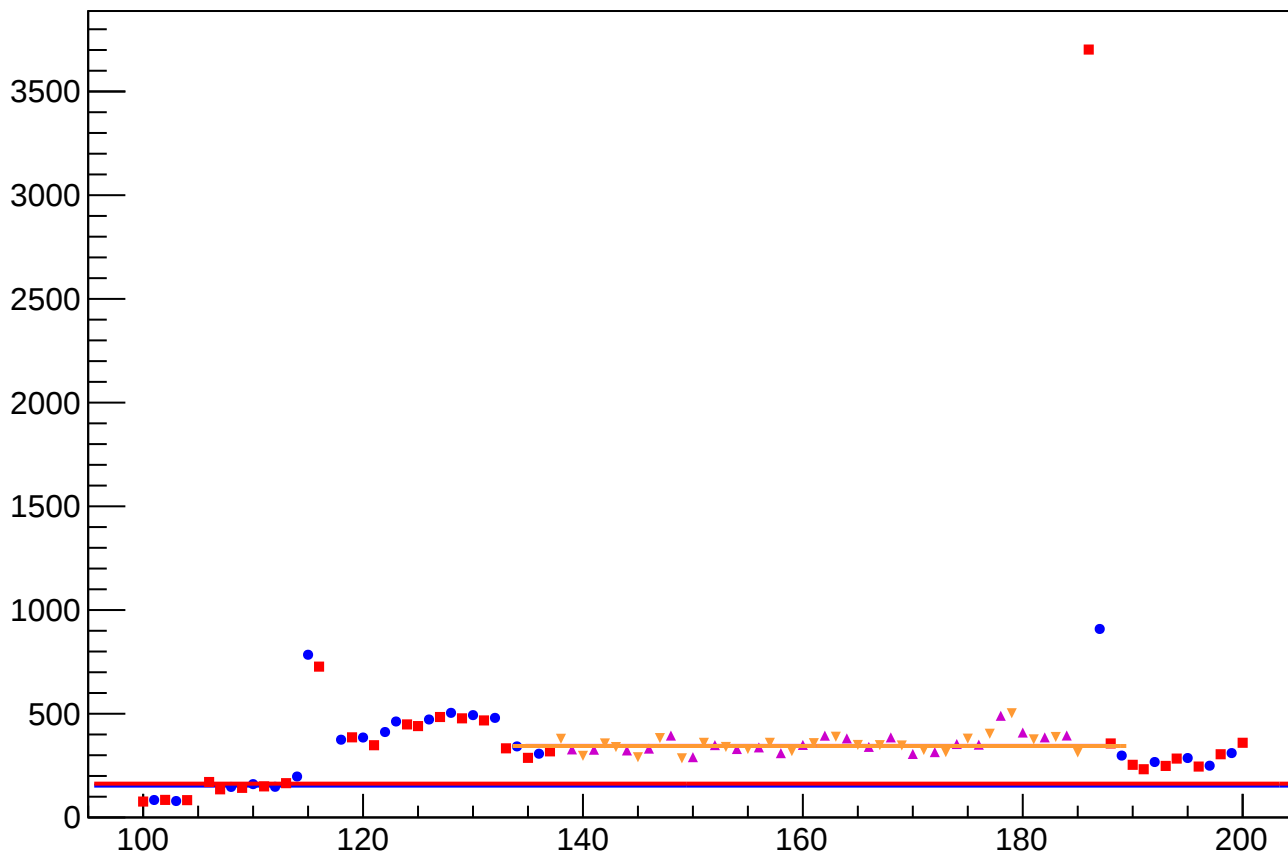
Right: 94.603 $\pm$ 39.694 χ^2 /NDF: 50.2/50

In: 61.695 $\pm$ 47.552 χ^2 /NDF:60.0/45

Out: 116.612 $\pm$ 45.231 χ^2 /NDF:49.3/52

All: 90.527 $\pm$ 32.773 χ^2 /NDF: 110.0/98

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 153.520+/-0.041 χ^2/NDF : 6771004.4/22

Left Out: 344.506+/-0.057 χ^2/NDF : 488323.4/24

Right Out: 163.011+/-0.039 χ^2/NDF : 7610795.0/27

Left In: 345.039+/-0.059 χ^2/NDF : 427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

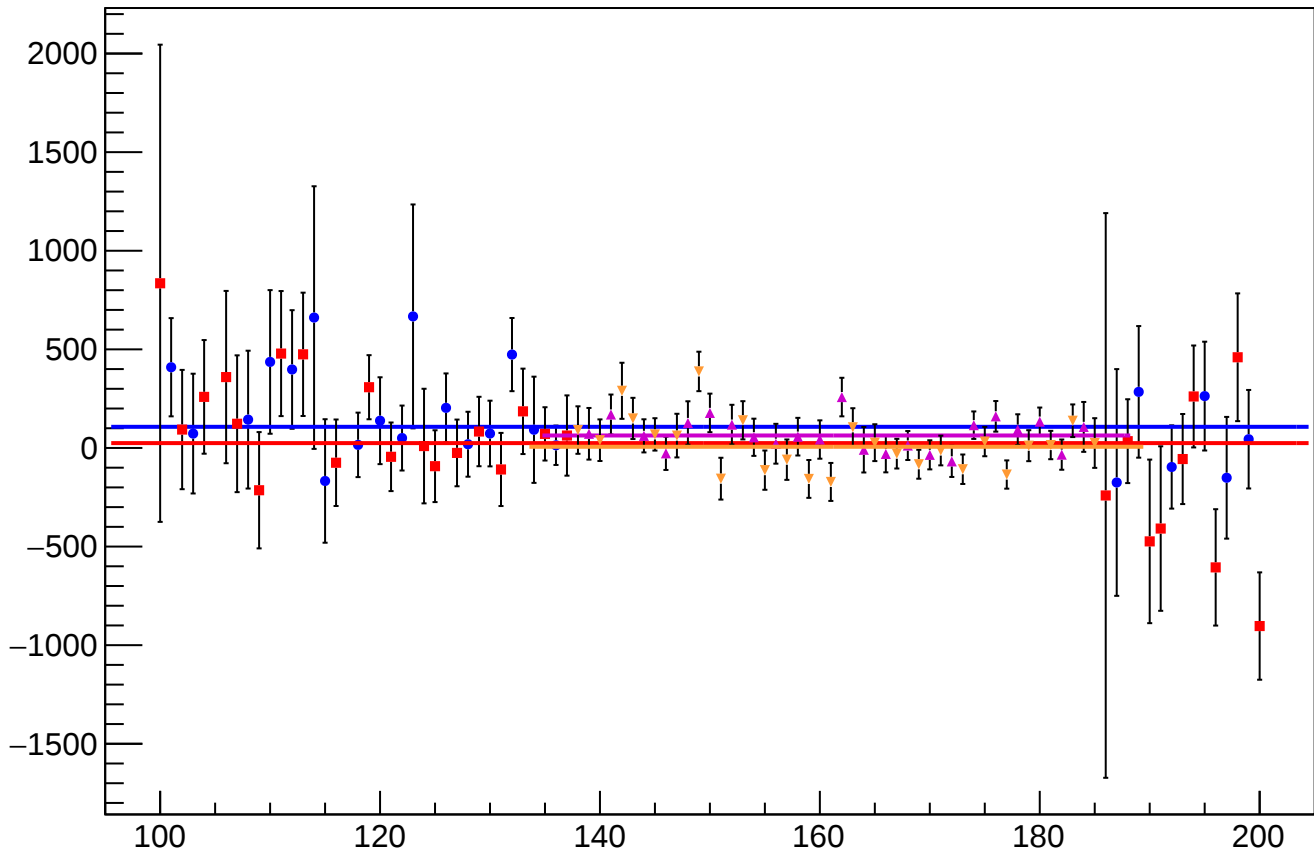
Right: 158.551+/-0.028 χ^2/NDF : 14410282.4/50

In: 215.901+/-0.034 χ^2/NDF : 14323784.4/45

Out: 219.578+/-0.032 χ^2/NDF : 15007636.8/52

All: 217.832+/-0.023 χ^2/NDF : 29337698.2/98

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 107.257 $\pm$ 45.304 χ^2 /NDF: 14.1/22

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 24.625 $\pm$ 44.631 χ^2 /NDF: 33.4/27

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

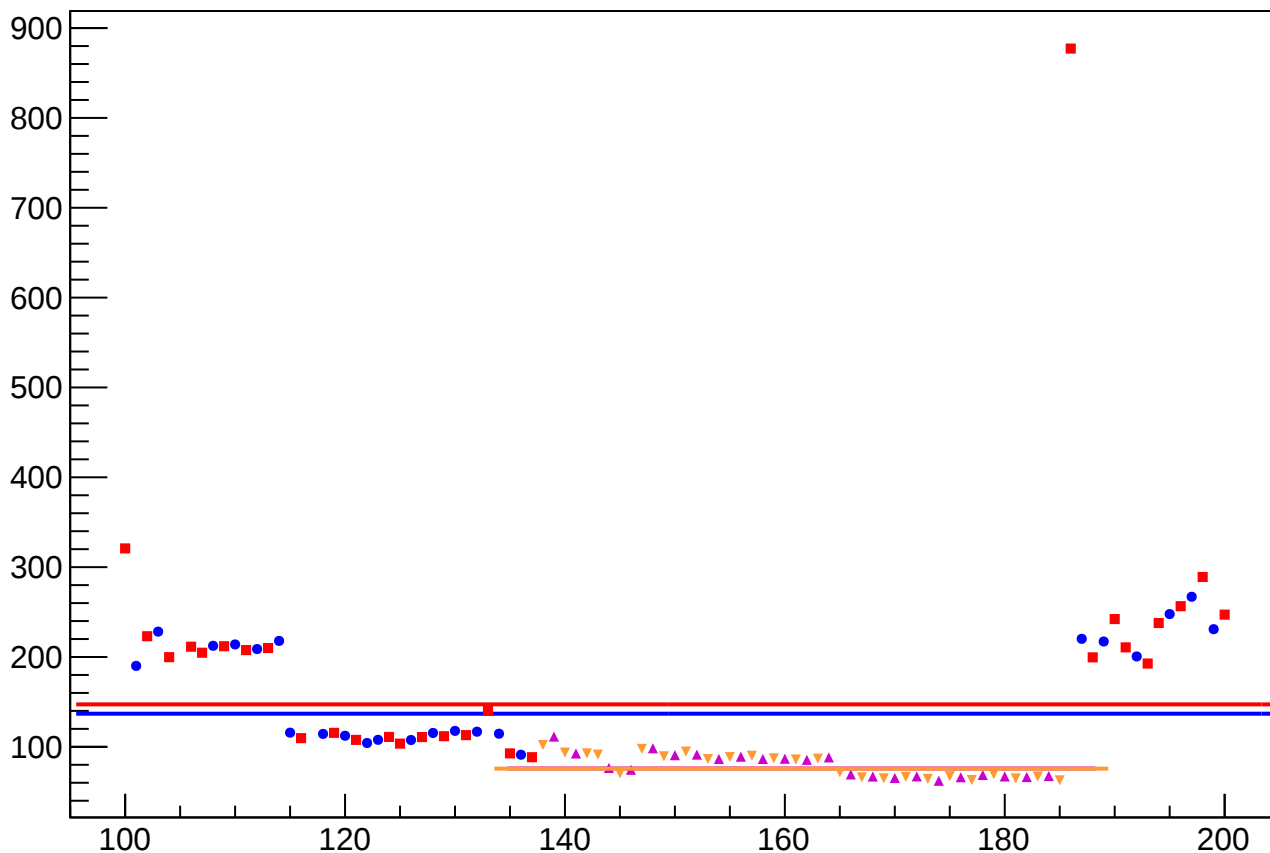
Right: 65.322 $\pm$ 31.794 χ^2 /NDF: 49.1/50

In: 69.533 $\pm$ 17.085 χ^2 /NDF:34.7/45

Out: 8.600 $\pm$ 16.622 χ^2 /NDF:79.5/52

All: 38.230 $\pm$ 11.914 χ^2 /NDF: 120.8/98

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 136.880 $\pm$ 0.032 χ^2 /NDF: 2629795.2/22

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 147.247 $\pm$ 0.032 χ^2 /NDF: 3745824.5/27

Left In: 75.909 $\pm$ 0.013 χ^2 /NDF:831366.4/22

Left: 75.824 $\pm$ 0.009 χ^2 /NDF: 1769272.3/47

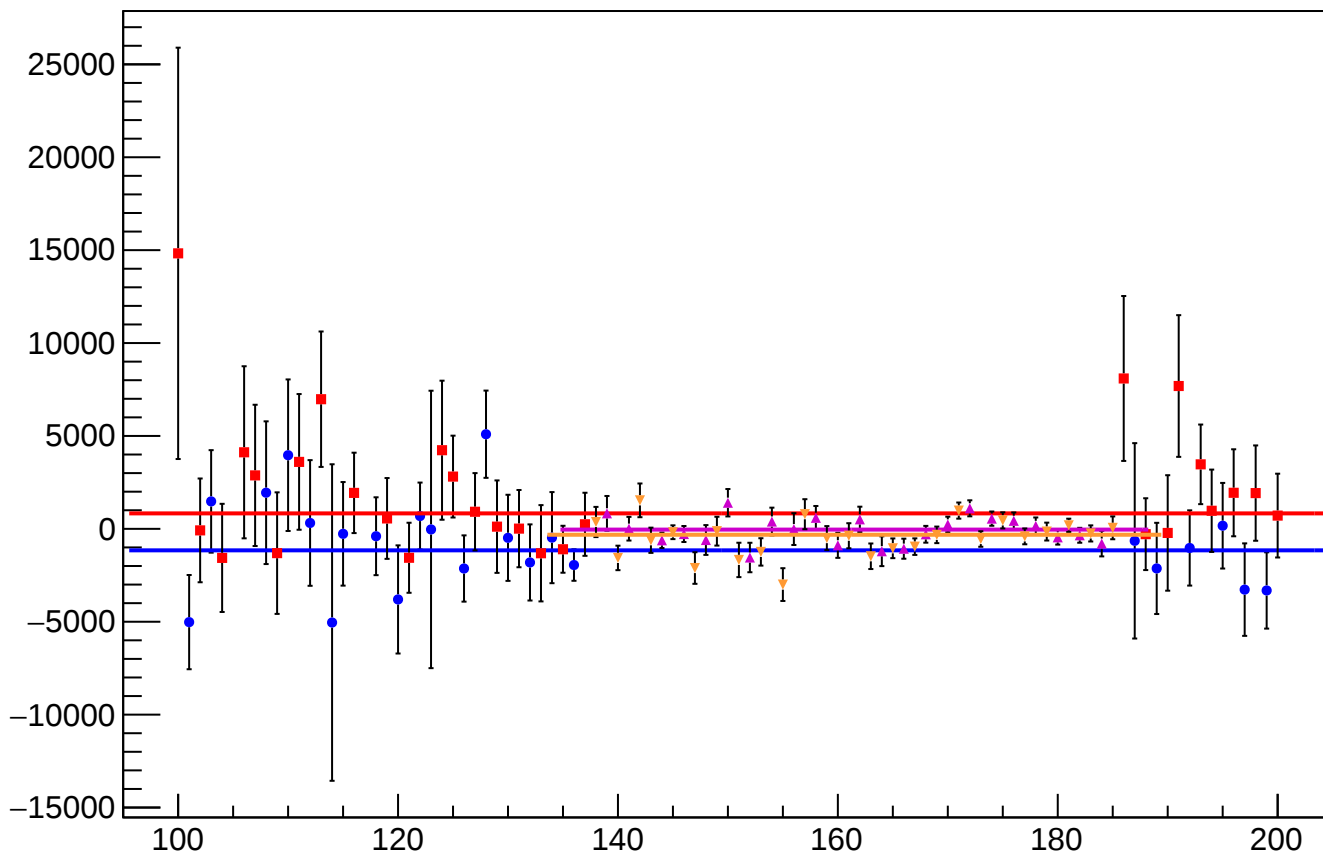
Right: 142.141 $\pm$ 0.022 χ^2 /NDF: 6428763.0/50

In: 84.580 $\pm$ 0.012 χ^2 /NDF:6568429.5/45

Out: 85.660 $\pm$ 0.012 χ^2 /NDF:9105238.0/52

All: 85.135 $\pm$ 0.008 χ^2 /NDF: 15677773.9/98

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1157.294+/-455.166 χ^2/NDF : 18.8/22

Left Out: -318.064+/-108.014 χ^2/NDF : 50.0/24

Right Out: 831.850+/-456.995 χ^2/NDF : 22.2/27

Left In: -40.473+/-110.252 χ^2/NDF : 34.7/22

Left: -182.115+/-77.156 χ^2/NDF : 88.0/47

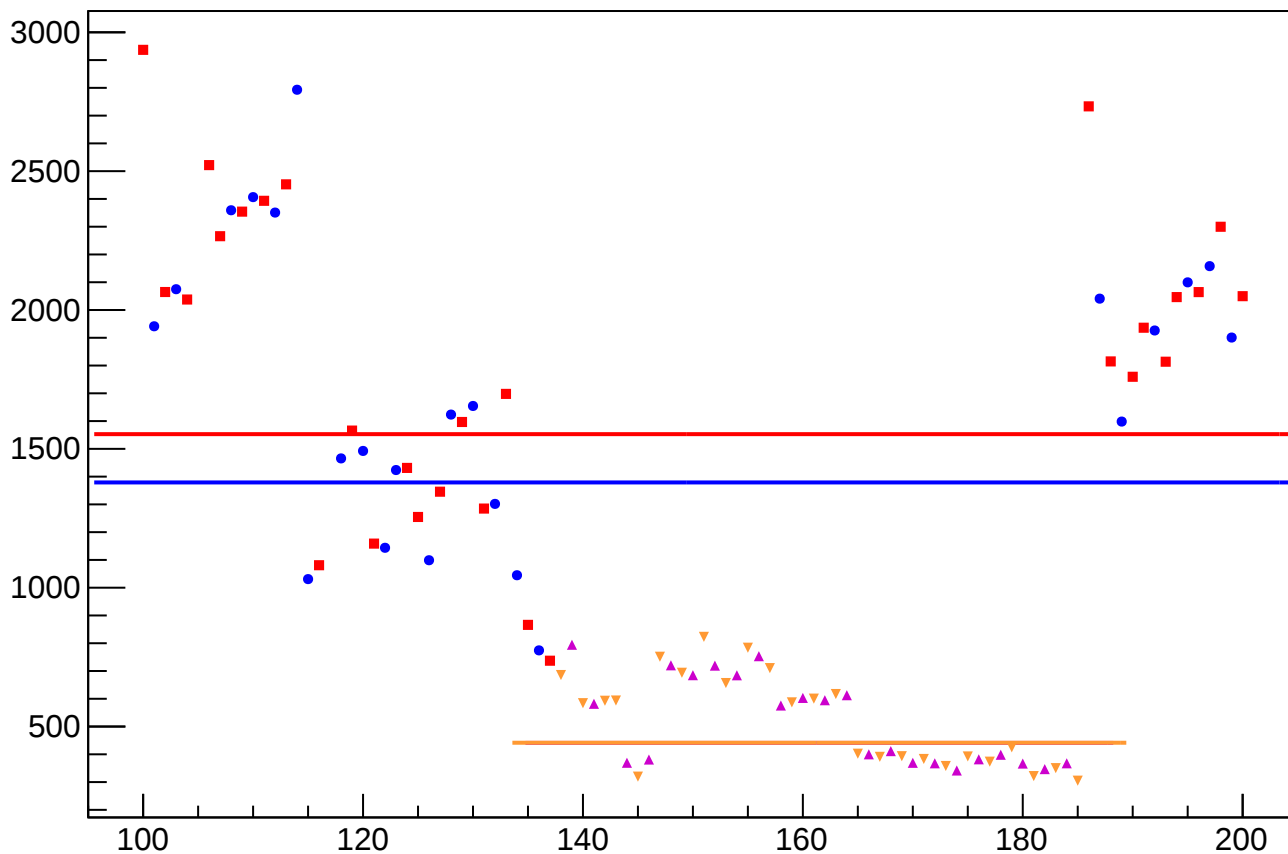
Right: -166.709+/-322.496 χ^2/NDF : 50.6/50

In: -102.368+/-107.154 χ^2/NDF : 59.3/45

Out: -257.224+/-105.117 χ^2/NDF : 78.2/52

All: -181.281+/-75.039 χ^2/NDF : 138.6/98

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1379.038+/-0.322 χ^2/NDF : 2645489.7/22

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1552.953+/-0.323 χ^2/NDF : 2692490.5/27

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

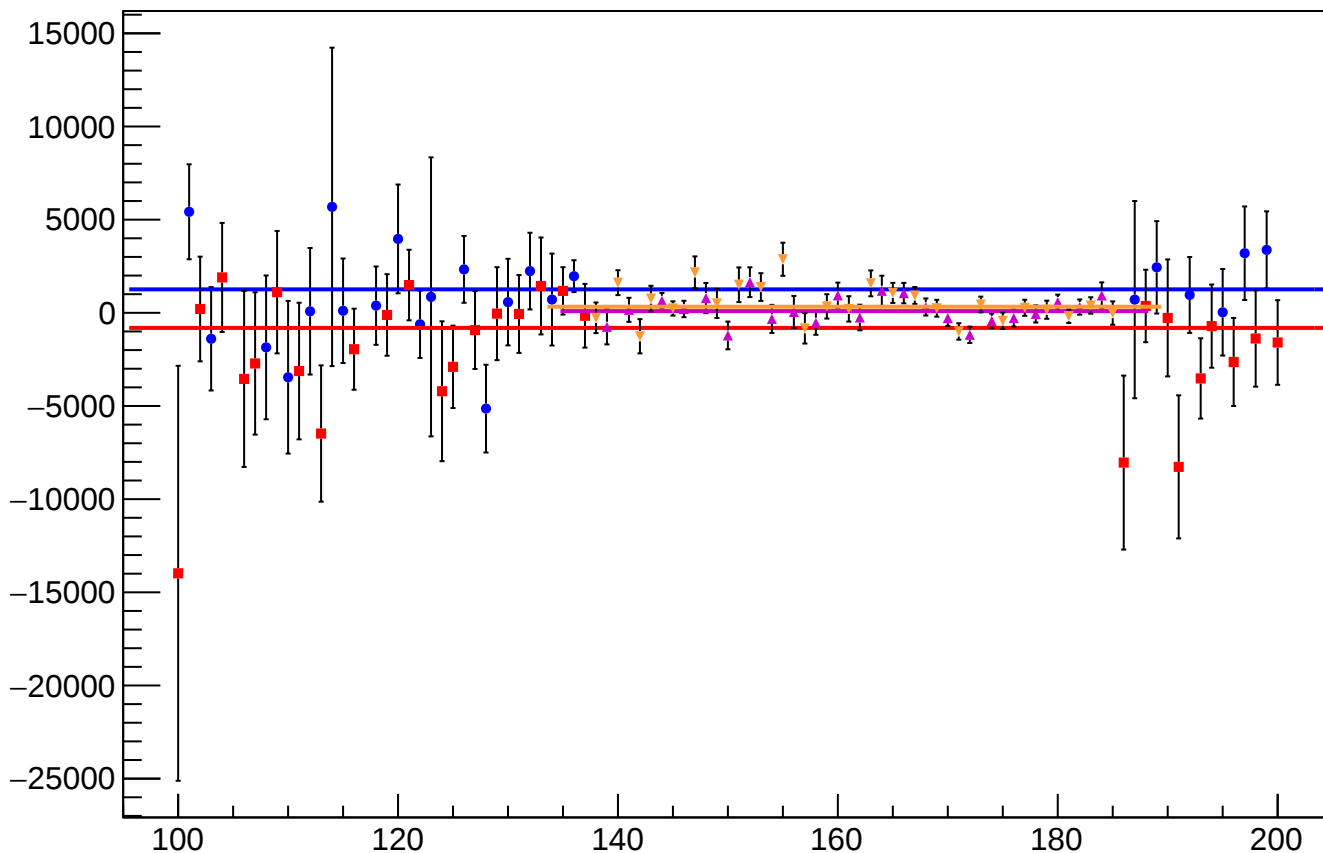
Right: 1465.647+/-0.228 χ^2/NDF : 5483388.5/50

In: 492.995+/-0.076 χ^2/NDF : 13265949.5/45

Out: 500.480+/-0.074 χ^2/NDF : 17062129.2/52

All: 496.809+/-0.053 χ^2/NDF : 30333051.9/98

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1259.088 $\pm$ 457.932 χ^2 /NDF: 19.2/22

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -810.317 $\pm$ 459.873 χ^2 /NDF: 22.2/27

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

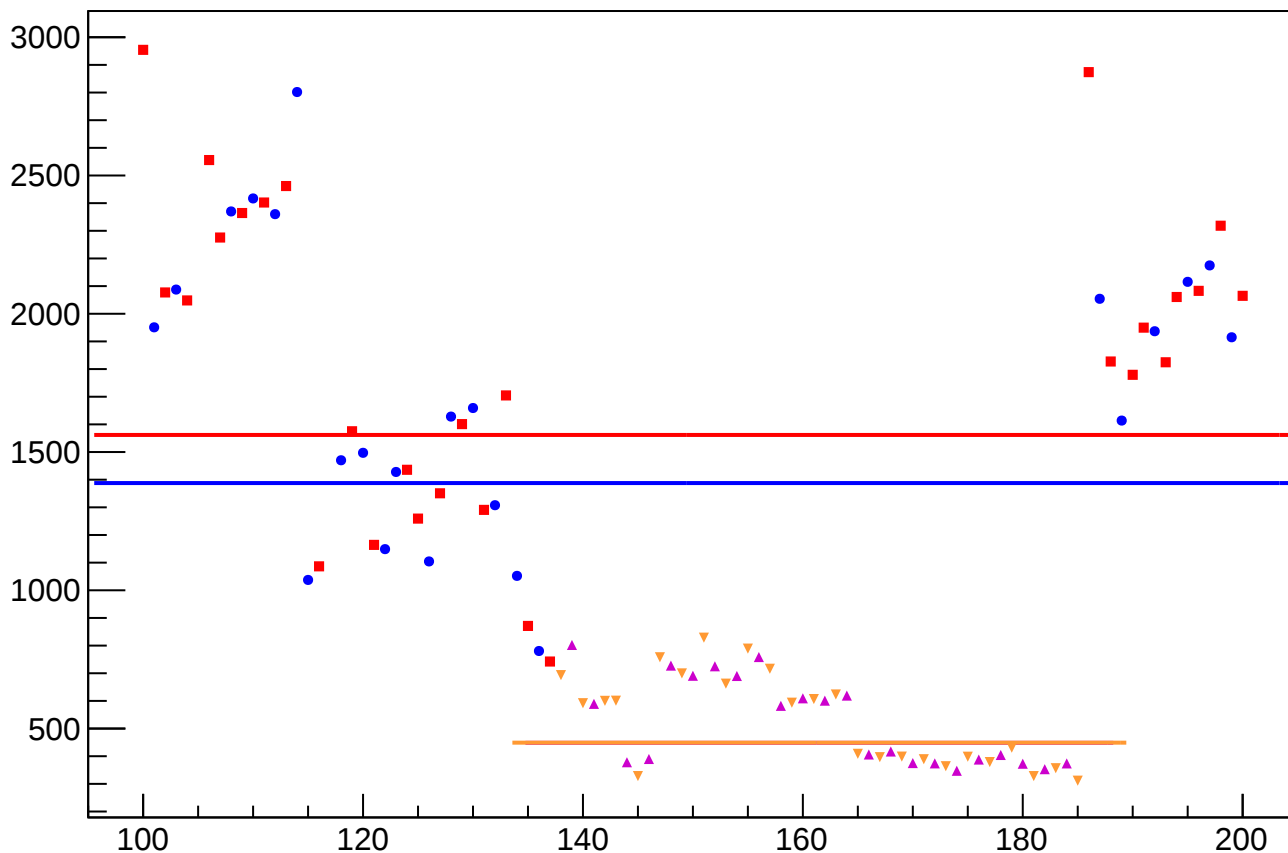
Right: 228.762 $\pm$ 324.491 χ^2 /NDF: 51.5/50

In: 159.065 $\pm$ 108.756 χ^2 /NDF: 58.7/45

Out: 267.313 $\pm$ 106.677 χ^2 /NDF: 75.7/52

All: 214.234 $\pm$ 76.156 χ^2 /NDF: 134.9/98

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1387.788 $\pm$ 0.324 χ^2/NDF : 2636108.1/22

Left Out: 449.016 $\pm$ 0.078 χ^2/NDF : 3090476.2/24

Right Out: 1561.771 $\pm$ 0.325 χ^2/NDF : 2713939.5/27

Left In: 448.307 $\pm$ 0.079 χ^2/NDF : 2537376.0/22

Left: 448.669 $\pm$ 0.055 χ^2/NDF : 5627893.2/47

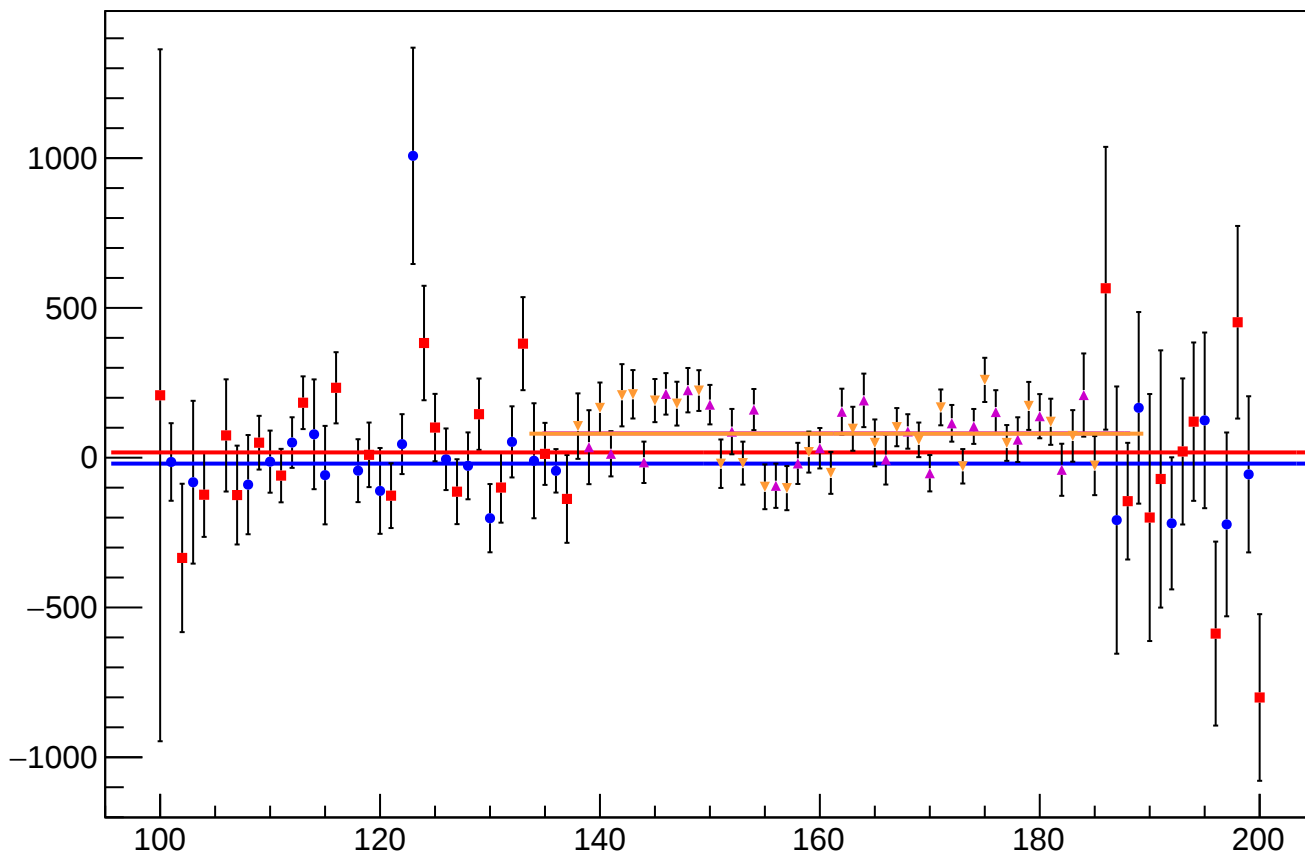
Right: 1474.411 $\pm$ 0.229 χ^2/NDF : 5493785.0/50

In: 501.297 $\pm$ 0.077 χ^2/NDF : 13116593.3/45

Out: 508.894 $\pm$ 0.075 χ^2/NDF : 16884200.4/52

All: 505.169 $\pm$ 0.054 χ^2/NDF : 30005767.0/98

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -19.741 ± 28.070 $\chi^2/\text{NDF}: 15.3/22$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 17.592 ± 26.943 $\chi^2/\text{NDF}: 44.7/27$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

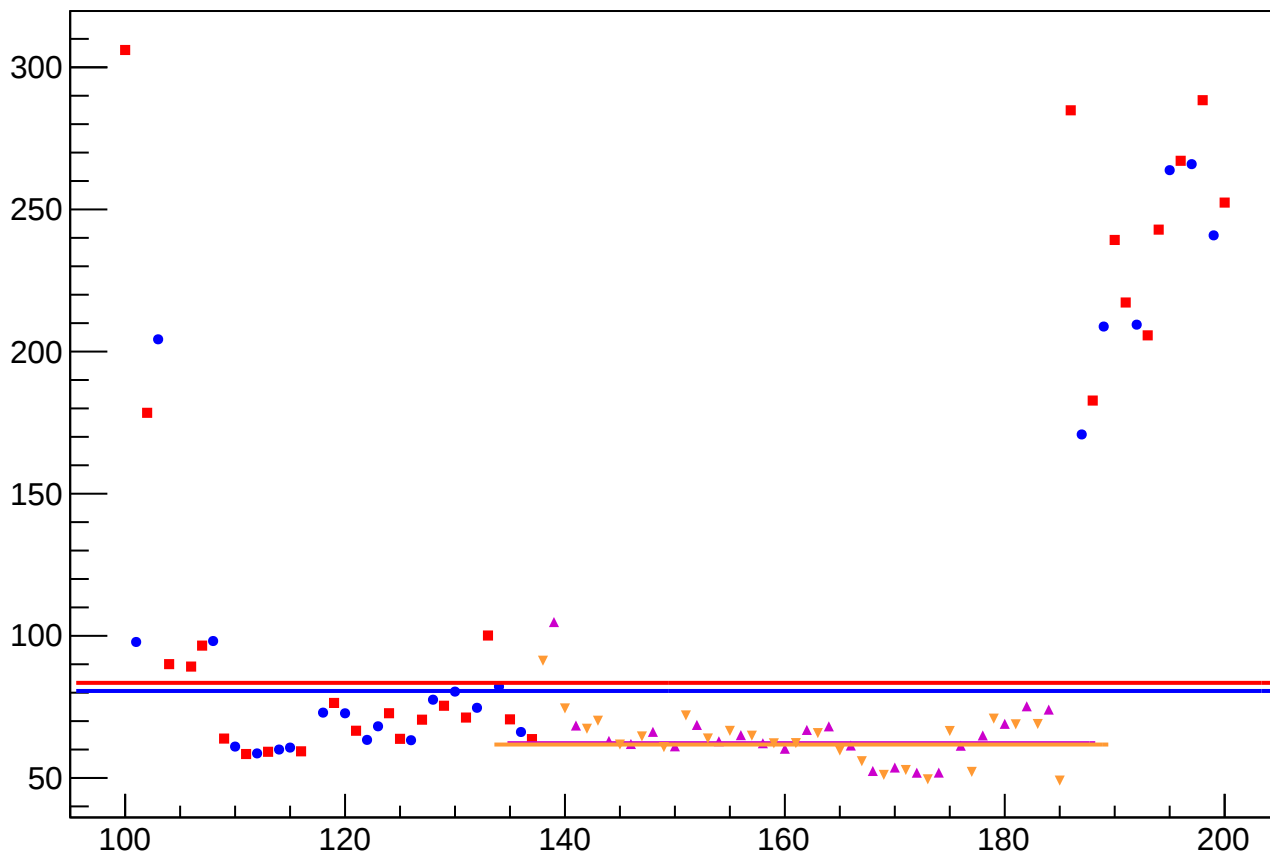
Right: -0.310 ± 19.438 $\chi^2/\text{NDF}: 61.0/50$

In: 58.499 ± 13.302 $\chi^2/\text{NDF}: 60.7/45$

Out: 65.978 ± 12.831 $\chi^2/\text{NDF}: 97.4/52$

All: 62.373 ± 9.235 $\chi^2/\text{NDF}: 158.2/98$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 80.606 $\pm$ 0.020 χ^2/NDF : 4308097.0/22

Left Out: 61.761 $\pm$ 0.010 χ^2/NDF : 645535.0/24

Right Out: 83.462 $\pm$ 0.019 χ^2/NDF : 6010401.3/27

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

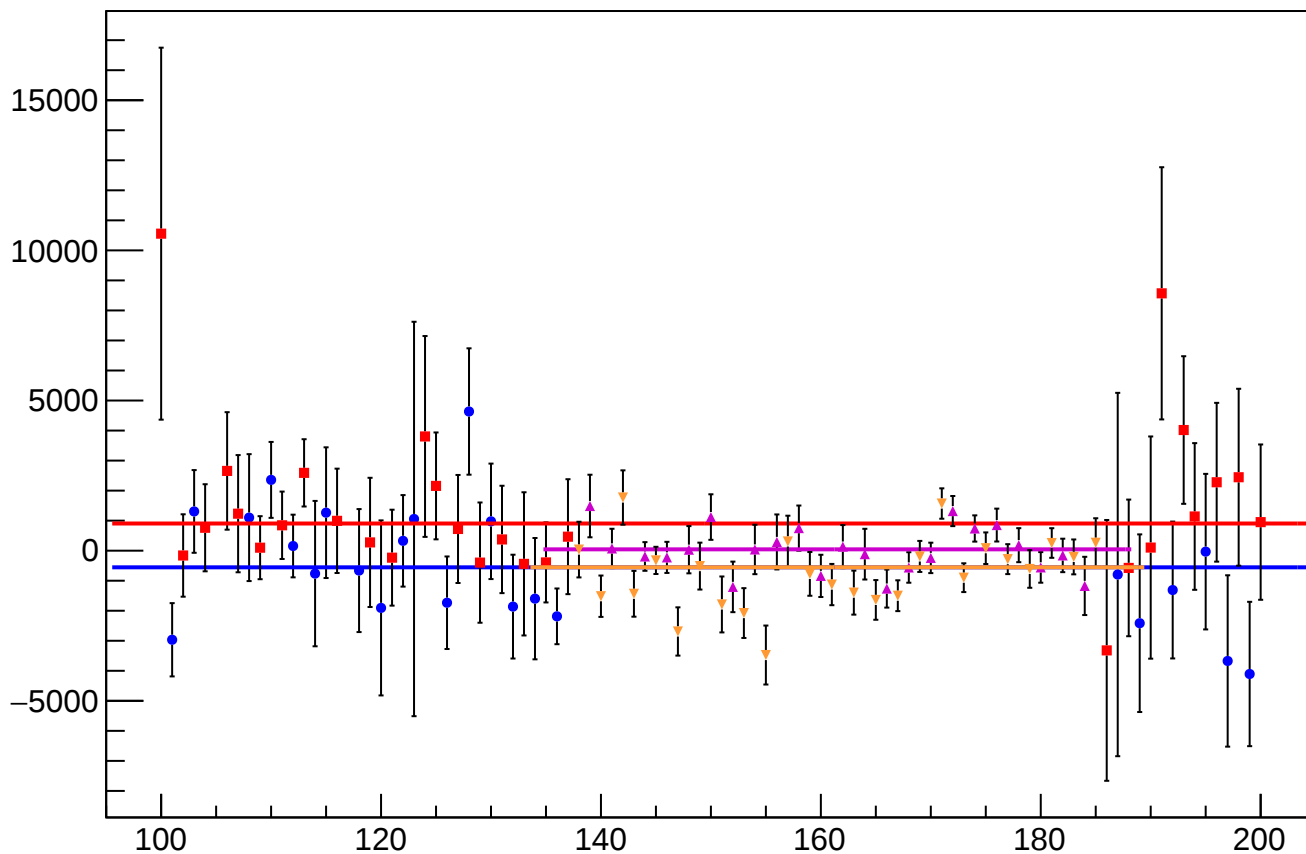
Right: 82.093 $\pm$ 0.014 χ^2/NDF : 10329274.6/50

In: 66.372 $\pm$ 0.009 χ^2/NDF : 5562416.7/45

Out: 66.683 $\pm$ 0.009 χ^2/NDF : 7659149.0/52

All: 66.533 $\pm$ 0.007 χ^2/NDF : 13222131.1/98

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -554.204+/-362.805 χ^2/NDF : 28.6/22

Left Out: -552.511+/-126.981 χ^2/NDF : 65.3/24

Right Out: 904.872+/-345.031 χ^2/NDF : 17.3/27

Left In: 44.578+/-129.095 χ^2/NDF : 29.6/22

Left: -258.894+/-90.527 χ^2/NDF : 105.7/47

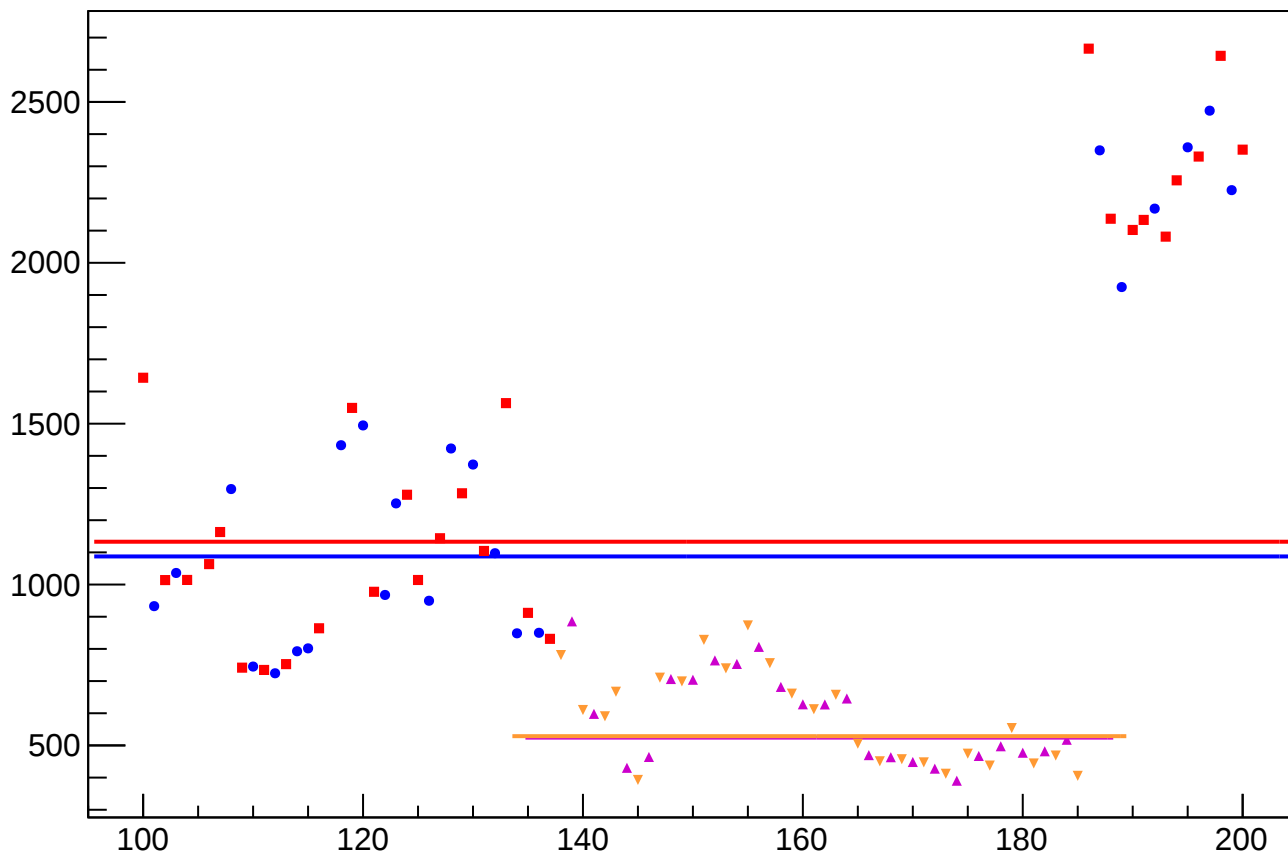
Right: 211.949+/-250.021 χ^2/NDF : 54.4/50

In: -22.714+/-121.624 χ^2/NDF : 60.6/45

Out: -378.663+/-119.167 χ^2/NDF : 98.3/52

All: -204.321+/-85.119 χ^2/NDF : 163.3/98

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1087.355+/-0.257 χ^2/NDF : 2986766.1/22

Left Out: 528.736+/-0.090 χ^2/NDF : 1983697.7/24

Right Out: 1133.102+/-0.244 χ^2/NDF : 4132216.6/27

Left In: 524.268+/-0.091 χ^2/NDF : 1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

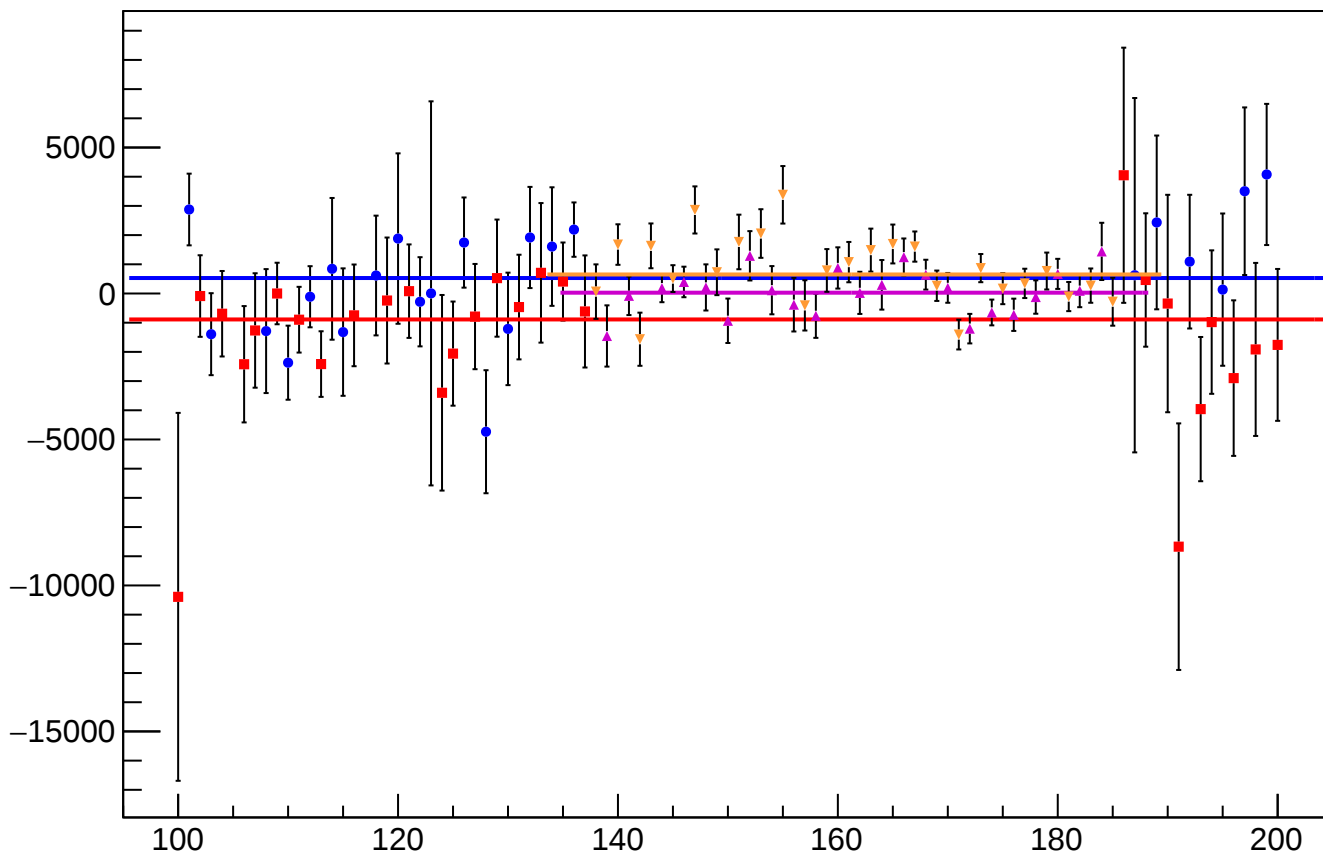
Right: 1111.377+/-0.177 χ^2/NDF : 7135679.9/50

In: 587.549+/-0.086 χ^2/NDF : 8979247.5/45

Out: 600.829+/-0.084 χ^2/NDF : 11520313.2/52

All: 594.325+/-0.060 χ^2/NDF : 20511726.7/98

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 529.803 $\pm$ 364.498 χ^2/NDF : 28.6/22

Left Out: 651.560 $\pm$ 127.961 χ^2/NDF :61.1/24

Right Out: -888.951 $\pm$ 346.810 χ^2/NDF : 16.6/27

Left In: 27.483 $\pm$ 130.127 χ^2/NDF :28.5/22

Left: 344.758 $\pm$ 91.238 χ^2/NDF : 101.2/47

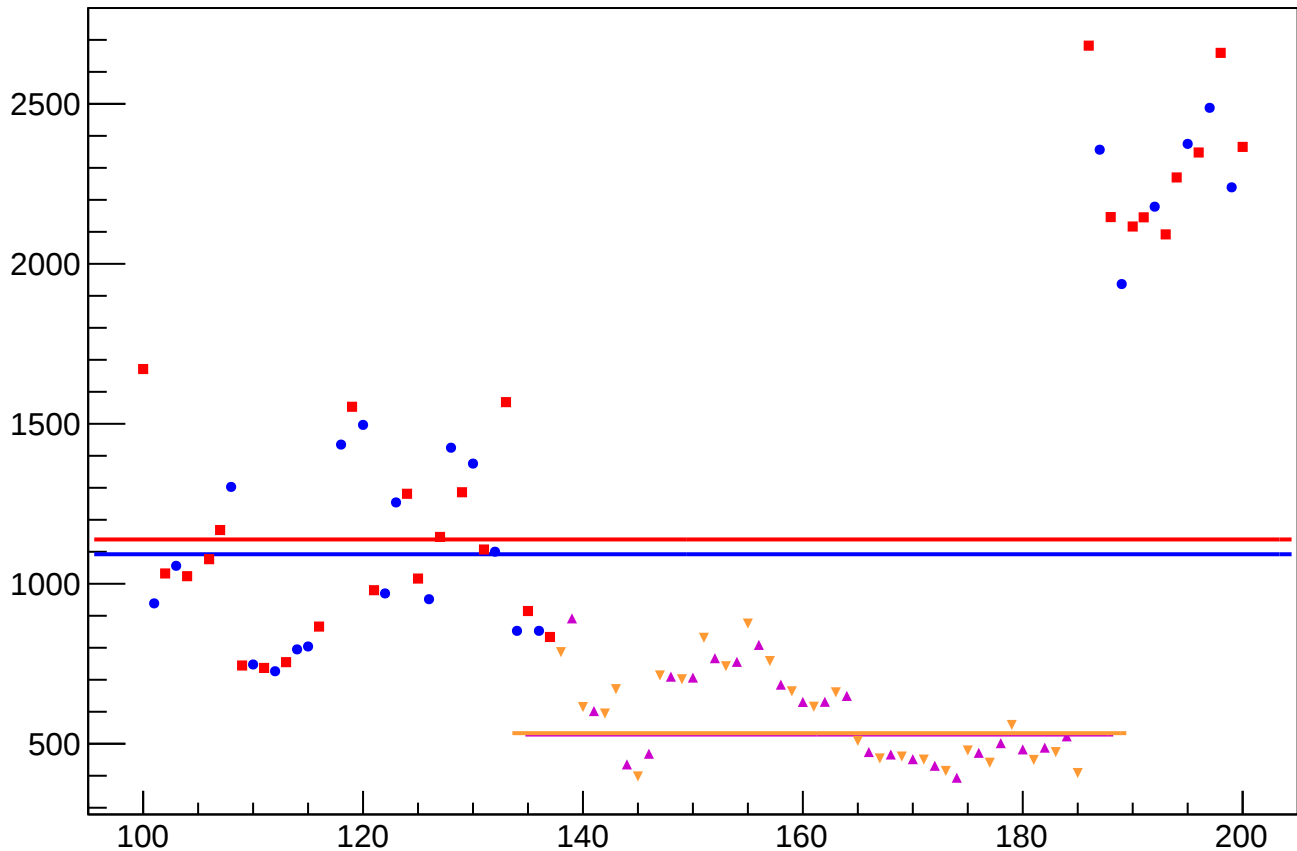
Right: -214.833 $\pm$ 251.252 χ^2/NDF : 53.2/50

In: 84.267 $\pm$ 122.551 χ^2/NDF :58.7/45

Out: 466.970 $\pm$ 120.050 χ^2/NDF :95.1/52

All: 279.564 $\pm$ 85.759 χ^2/NDF : 158.8/98

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1092.293+/-0.258 χ^2/NDF : 2991573.8/22

Left Out: 533.060+/-0.090 χ^2/NDF : 1951536.4/24

Right Out: 1138.509+/-0.245 χ^2/NDF : 4141701.3/27

Left In: 528.694+/-0.092 χ^2/NDF : 1688511.2/22

Left: 530.914+/-0.065 χ^2/NDF : 3641192.3/47

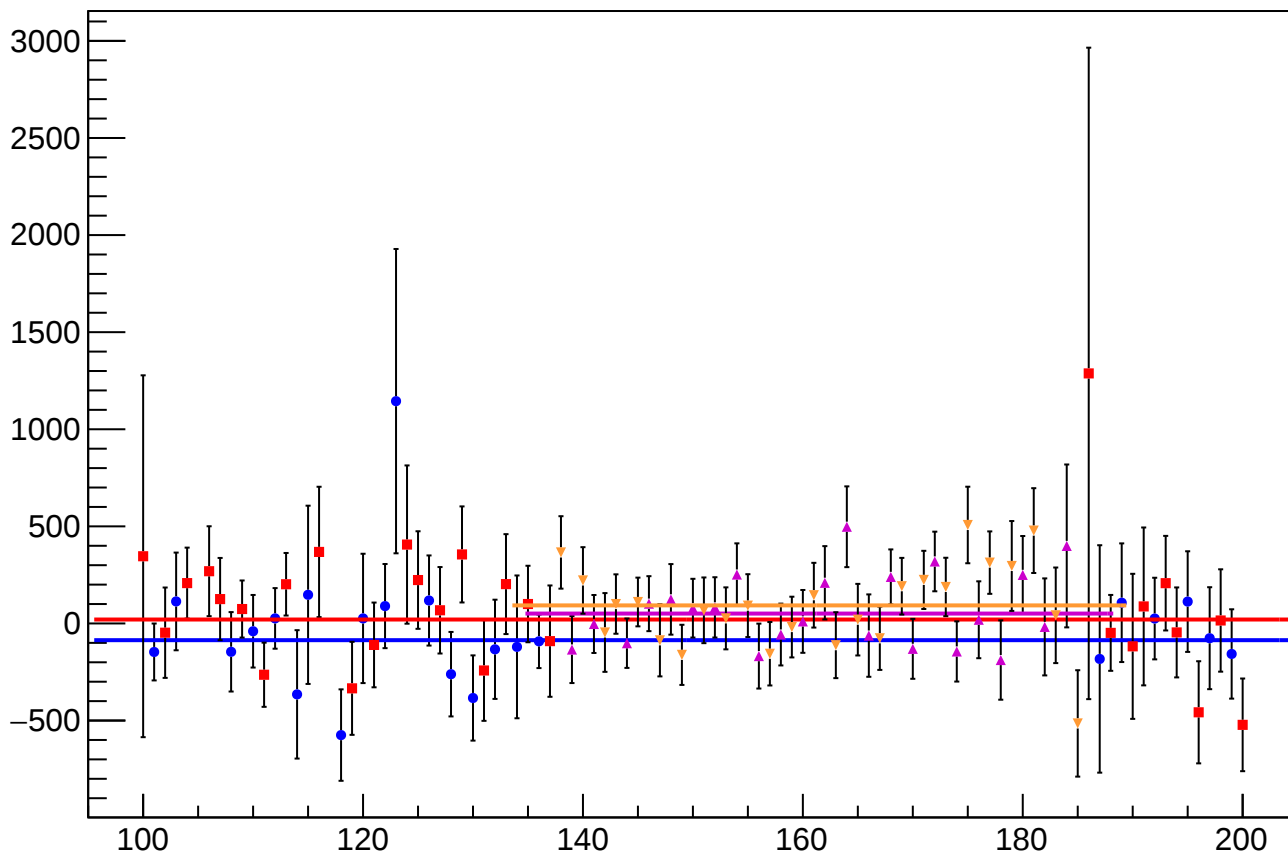
Right: 1116.550+/-0.178 χ^2/NDF : 7150150.4/50

In: 592.405+/-0.087 χ^2/NDF : 8921228.4/45

Out: 605.607+/-0.085 χ^2/NDF : 11458256.3/52

All: 599.142+/-0.061 χ^2/NDF : 20391329.1/98

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -86.116 ± 47.659 χ^2/NDF : 14.7/22

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: 20.246 ± 44.397 χ^2/NDF : 25.9/27

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

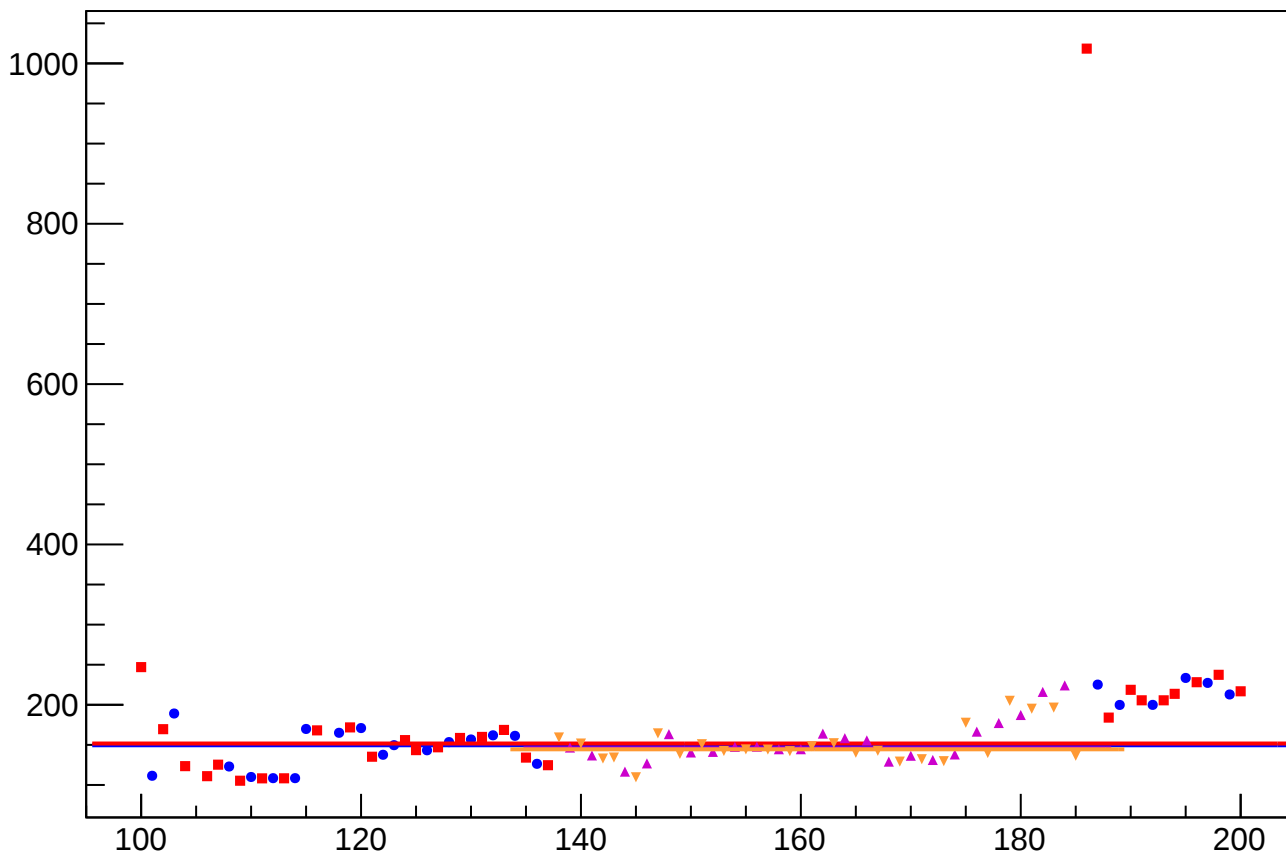
Right: -29.172 ± 32.485 χ^2/NDF : 43.3/50

In: 2.394 ± 28.356 χ^2/NDF : 43.5/45

Out: 66.048 ± 27.021 χ^2/NDF : 57.1/52

All: 35.755 ± 19.561 χ^2/NDF : 103.2/98

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 149.521+/-0.034 χ^2/NDF : 1311284.3/22

Left Out: 144.475+/-0.024 χ^2/NDF : 670488.7/24

Right Out: 151.707+/-0.031 χ^2/NDF : 2194632.7/27

Left In: 145.535+/-0.025 χ^2/NDF : 643529.3/22

Left: 144.986+/-0.017 χ^2/NDF : 1314951.6/47

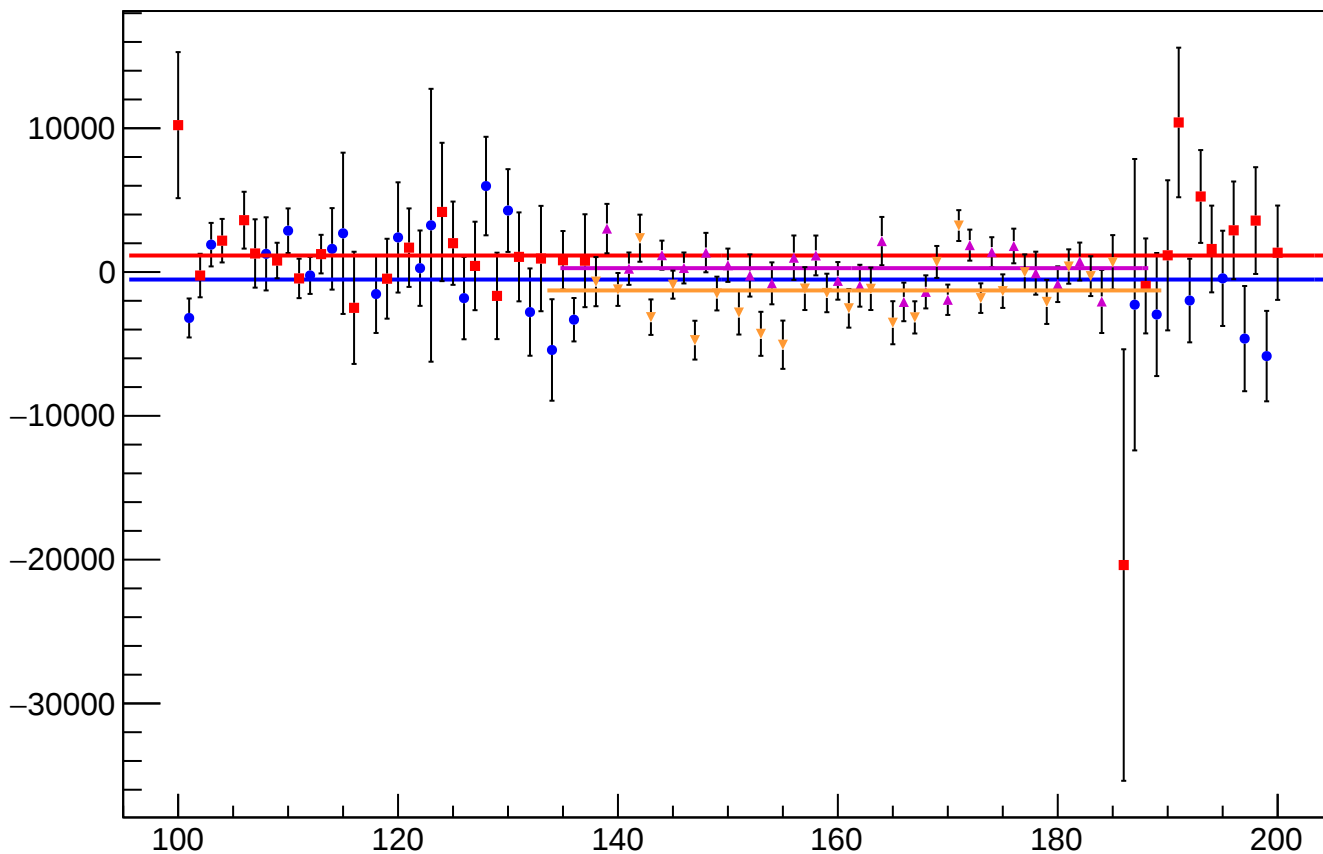
Right: 150.691+/-0.023 χ^2/NDF : 3508168.8/50

In: 146.946+/-0.020 χ^2/NDF : 1963854.0/45

Out: 147.154+/-0.019 χ^2/NDF : 2898529.5/52

All: 147.055+/-0.014 χ^2/NDF : 4862439.9/98

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -521.433+/-495.117 χ^2/NDF : 30.9/22

Left Out: -1279.328+/-259.299 χ^2/NDF : 55.9/24

Right Out: 1149.318+/-449.925 χ^2/NDF : 18.2/27

Left In: 269.952+/-266.245 χ^2/NDF : 24.3/22

Left: -525.161+/-185.759 χ^2/NDF : 97.6/47

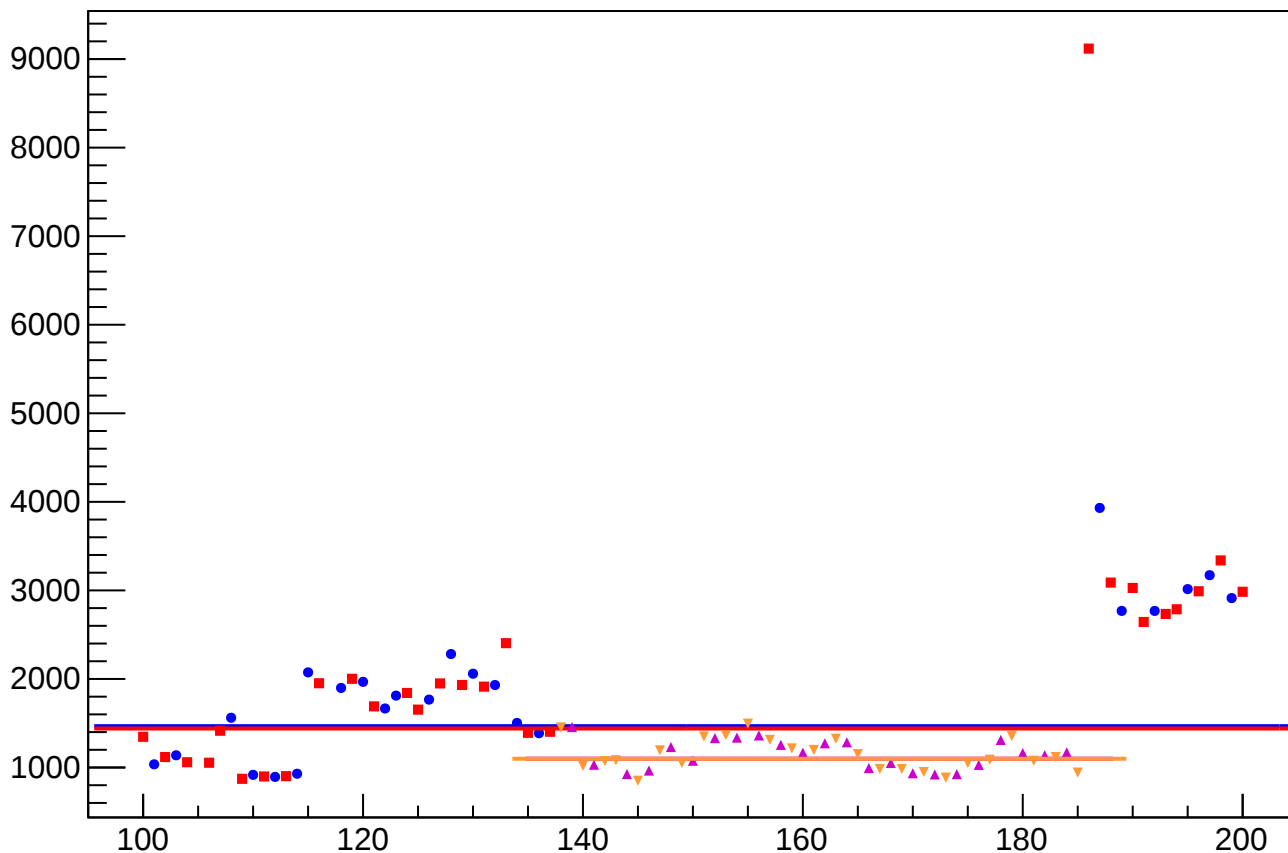
Right: 393.656+/-332.978 χ^2/NDF : 55.3/50

In: 92.440+/-234.492 χ^2/NDF : 57.1/45

Out: -673.797+/-224.660 χ^2/NDF : 96.0/52

All: -307.078+/-162.223 χ^2/NDF : 158.7/98

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1466.774+/-0.350 χ^2/NDF : 3413193.7/22

Left Out: 1098.909+/-0.183 χ^2/NDF : 824328.7/24

Right Out: 1440.475+/-0.318 χ^2/NDF : 5218852.3/27

Left In: 1099.585+/-0.188 χ^2/NDF : 679896.1/22

Left: 1099.238+/-0.131 χ^2/NDF : 1504231.4/47

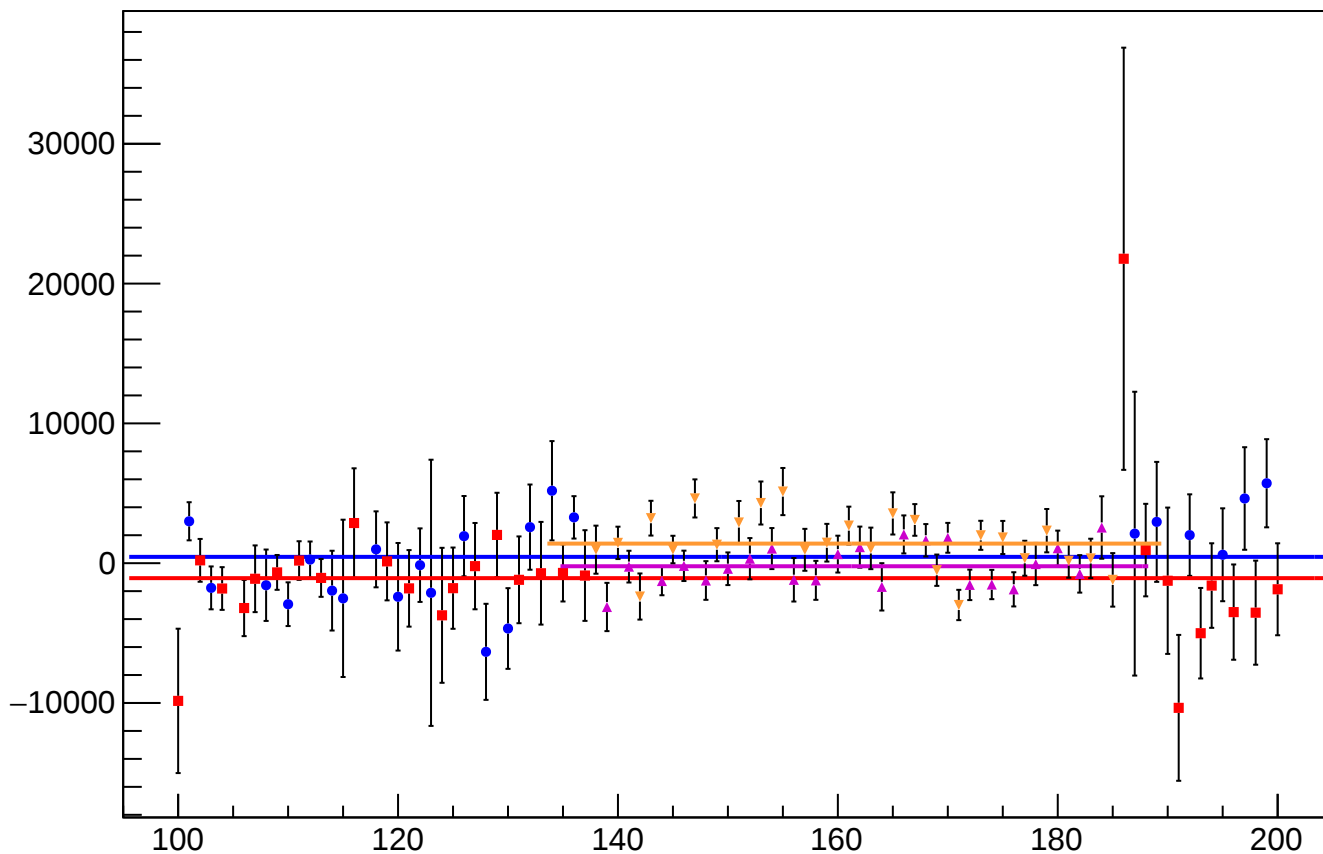
Right: 1452.370+/-0.235 χ^2/NDF : 8635136.5/50

In: 1181.947+/-0.166 χ^2/NDF : 4946357.9/45

Out: 1184.071+/-0.159 χ^2/NDF : 6908448.3/52

All: 1183.055+/-0.115 χ^2/NDF : 11854891.7/99

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 452.012 $\pm$ 498.136 χ^2 /NDF: 30.4/22

Left Out: 1400.458 $\pm$ 261.804 χ^2 /NDF:52.2/24

Right Out: -1070.750 $\pm$ 453.094 χ^2 /NDF: 17.0/27

Left In: -219.393 $\pm$ 268.852 χ^2 /NDF:25.0/22

Left: 612.044 $\pm$ 187.566 χ^2 /NDF: 95.9/47

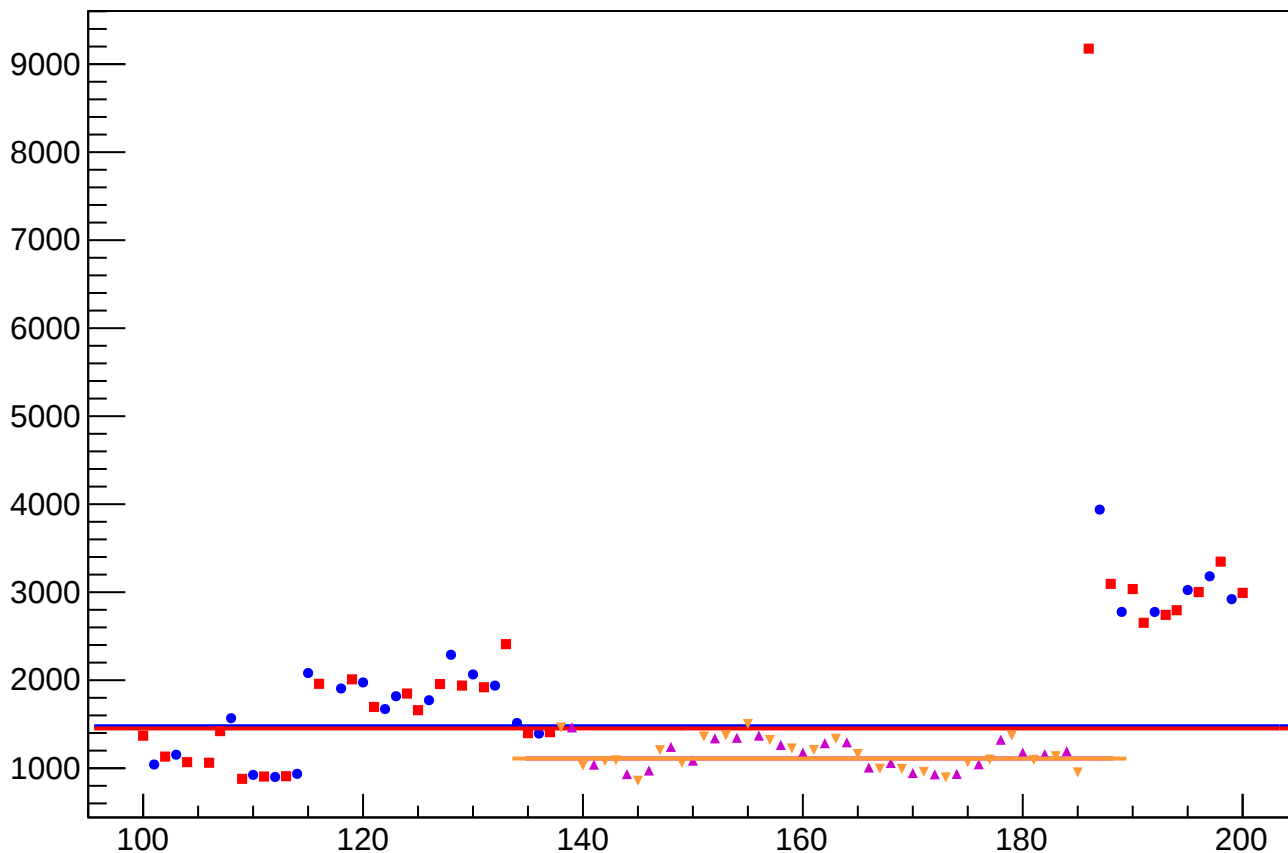
Right: -381.312 $\pm$ 335.181 χ^2 /NDF: 52.6/50

In: -67.935 $\pm$ 236.592 χ^2 /NDF:56.8/45

Out: 781.911 $\pm$ 226.683 χ^2 /NDF:91.6/52

All: 375.157 $\pm$ 163.680 χ^2 /NDF: 155.1/98

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1476.997 $\pm$ 0.352 χ^2 /NDF: 3383924.5/22

Left Out: 1109.761 $\pm$ 0.185 χ^2 /NDF: 812174.9/24

Right Out: 1451.785 $\pm$ 0.320 χ^2 /NDF: 5176561.8/27

Left In: 1110.542 $\pm$ 0.190 χ^2 /NDF: 669928.9/22

Left: 1110.141 $\pm$ 0.133 χ^2 /NDF: 1482112.5/47

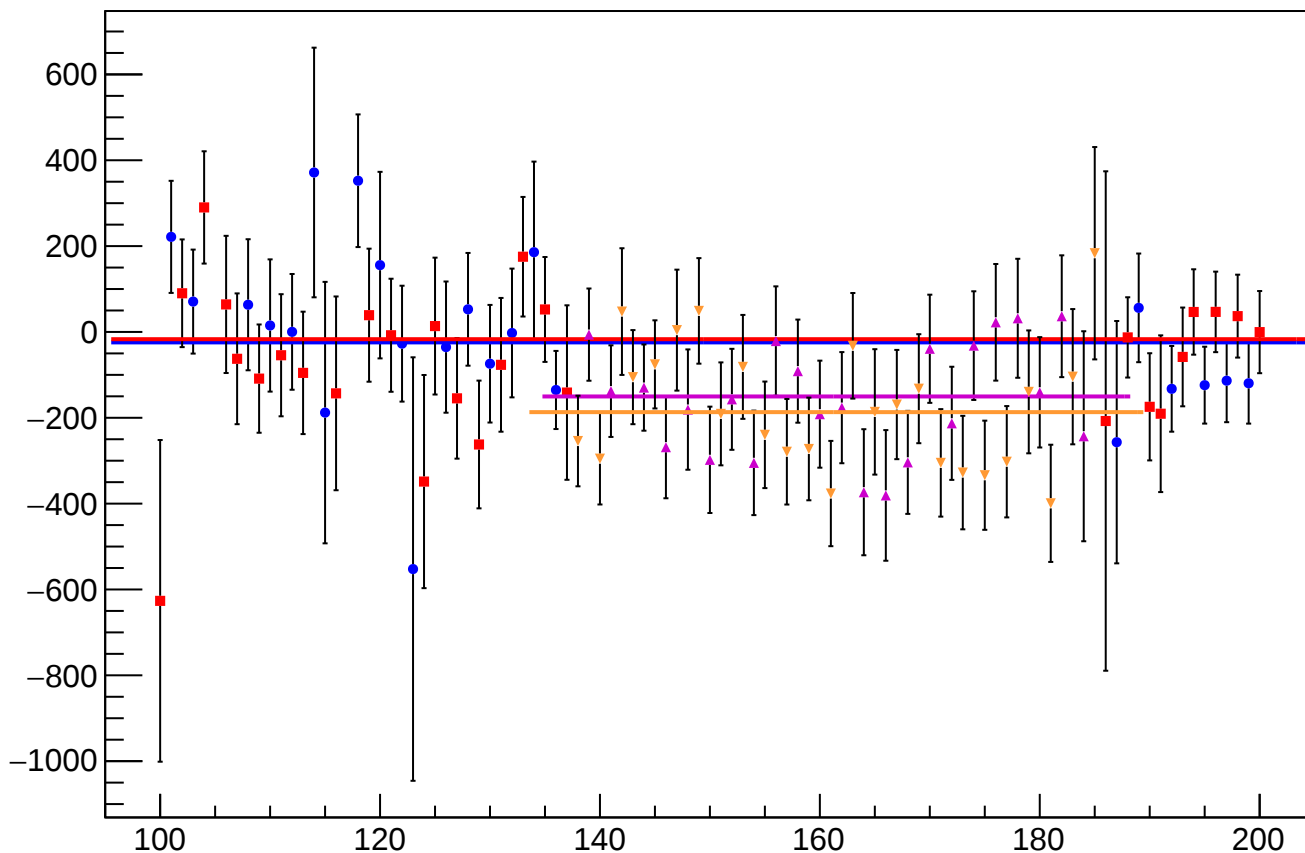
Right: 1463.200 $\pm$ 0.237 χ^2 /NDF: 8563290.0/50

In: 1193.208 $\pm$ 0.167 χ^2 /NDF: 4892059.3/45

Out: 1195.370 $\pm$ 0.160 χ^2 /NDF: 6843120.5/52

All: 1194.335 $\pm$ 0.116 χ^2 /NDF: 11735267.0/99

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected

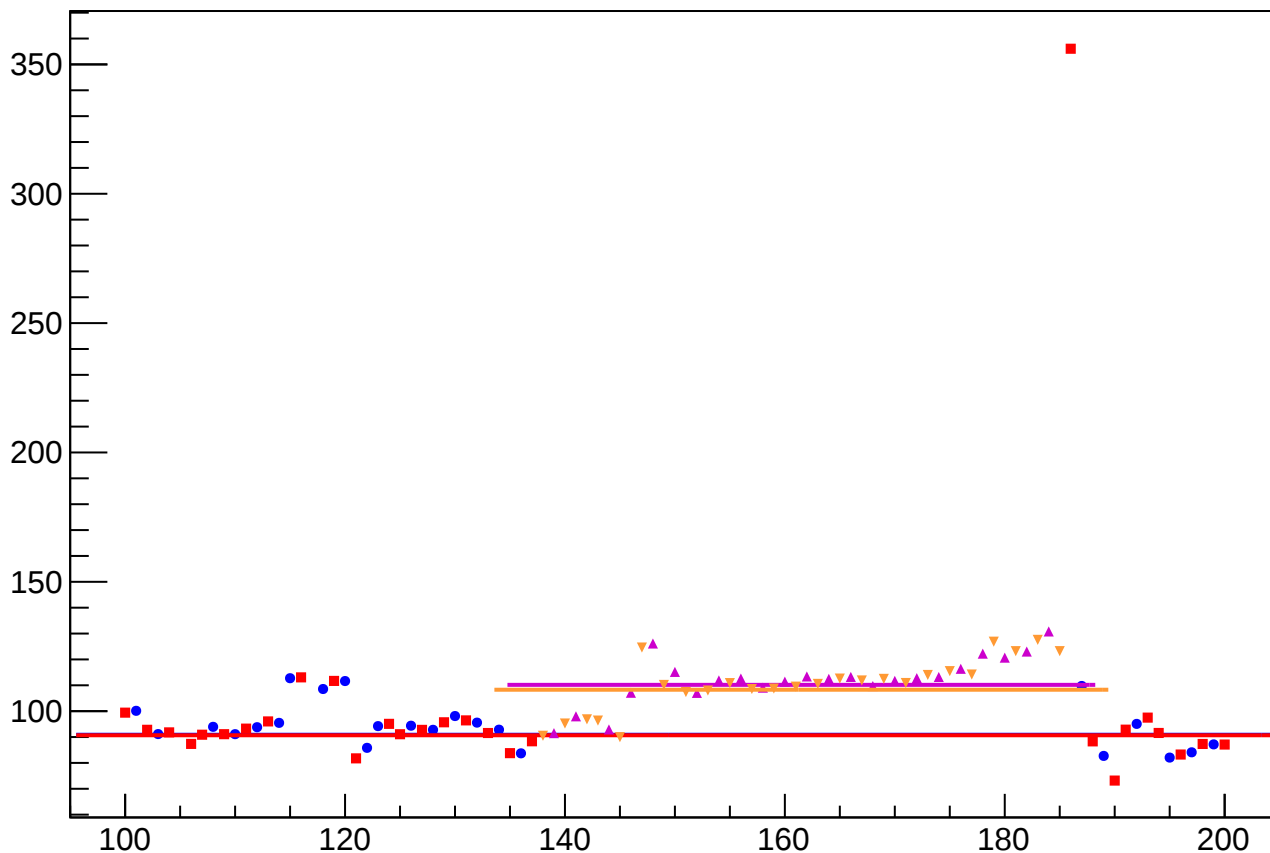


Right In: -24.352 ± 28.024 $\chi^2/\text{NDF}: 22.9/22$
 Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$
 Right Out: -16.887 ± 25.441 $\chi^2/\text{NDF}: 22.8/27$
 Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$
 Right: -20.259 ± 18.837 $\chi^2/\text{NDF}: 45.7/50$
 In: -90.981 ± 19.233 $\chi^2/\text{NDF}: 54.2/45$
 Out: -102.308 ± 17.942 $\chi^2/\text{NDF}: 71.8/52$

All: -97.037 ± 13.120 $\chi^2/\text{NDF}: 126.2/98$

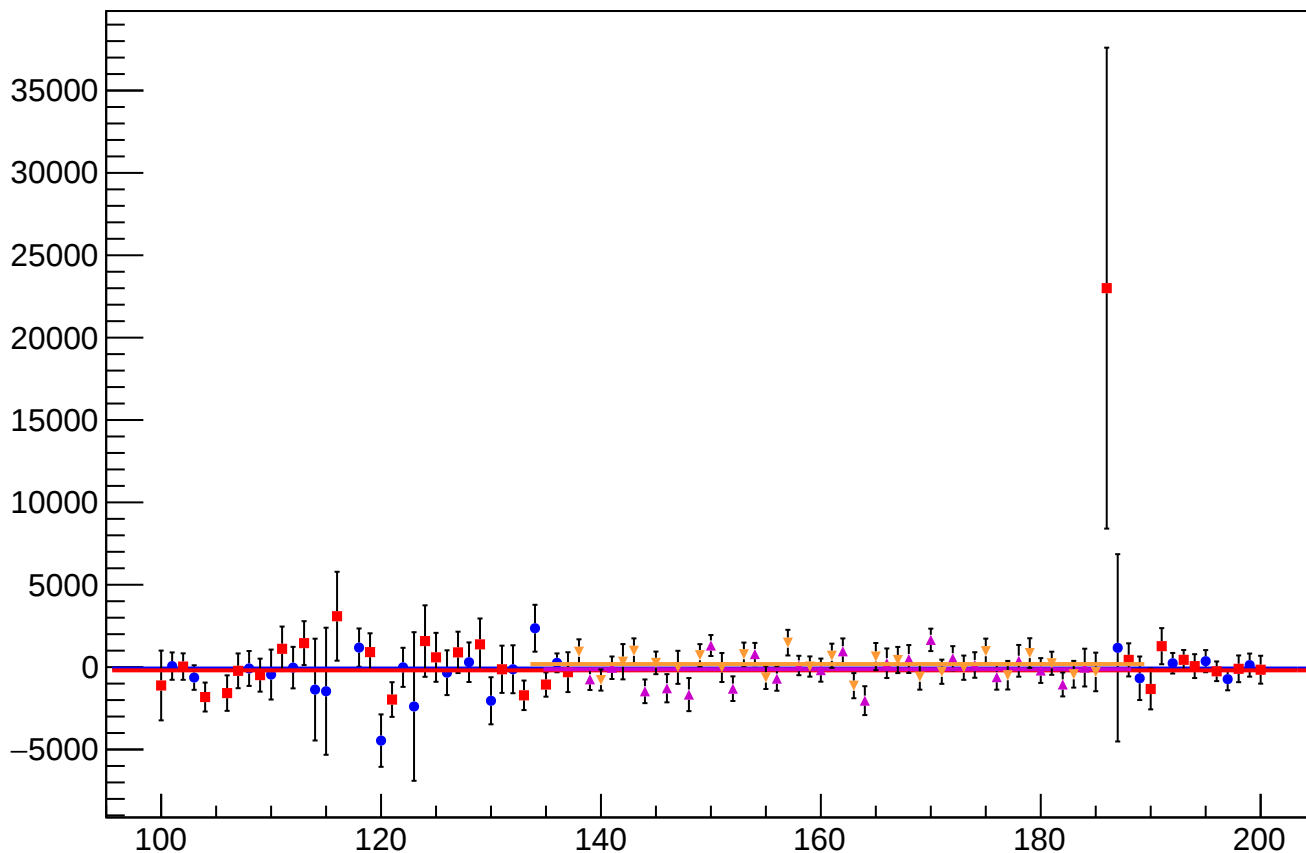
reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 90.882 $\pm$ 0.020 χ^2 /NDF: 144799.6/22
 Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24
 Right Out: 90.686 $\pm$ 0.018 χ^2 /NDF: 566617.0/27
 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: 90.775 $\pm$ 0.013 χ^2 /NDF: 711470.6/50
 In: 101.086 $\pm$ 0.014 χ^2 /NDF: 893068.7/45
 Out: 99.533 $\pm$ 0.013 χ^2 /NDF: 1378498.9/52
 All: 100.256 $\pm$ 0.009 χ^2 /NDF: 2278547.0/98

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -86.266 ± 210.195 $\chi^2/\text{NDF}: 17.2/22$

Left Out: 185.392 ± 153.683 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -196.232 ± 190.168 $\chi^2/\text{NDF}: 27.0/27$

Left In: -128.782 ± 157.155 $\chi^2/\text{NDF}: 36.2/22$

Left: 31.814 ± 109.877 $\chi^2/\text{NDF}: 56.6/47$

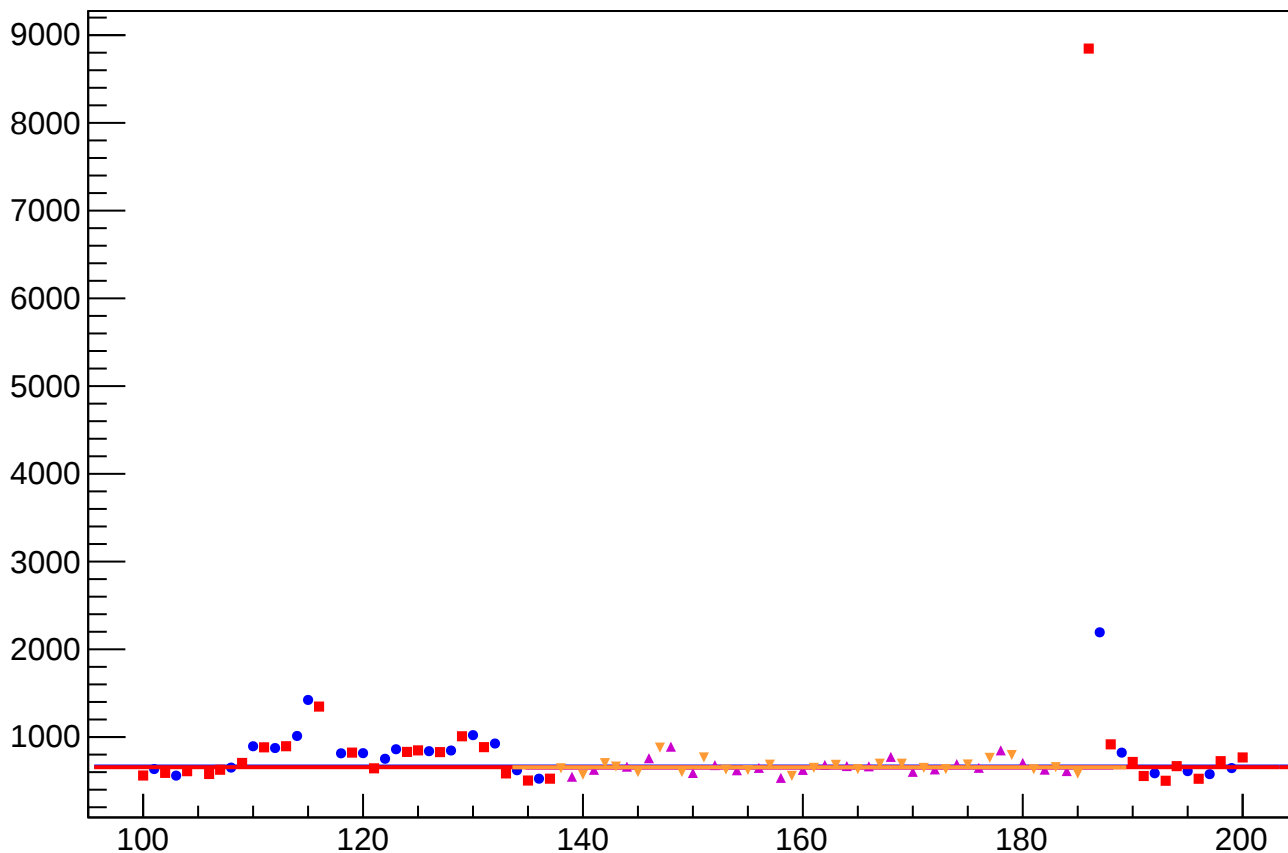
Right: -146.736 ± 141.019 $\chi^2/\text{NDF}: 44.3/50$

In: -113.537 ± 125.865 $\chi^2/\text{NDF}: 53.5/45$

Out: 34.622 ± 119.530 $\chi^2/\text{NDF}: 47.8/52$

All: -35.635 ± 86.674 $\chi^2/\text{NDF}: 102.0/98$

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 664.053+/-0.149 χ^2/NDF : 952479.1/22

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 656.404+/-0.134 χ^2/NDF : 1757190.2/27

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

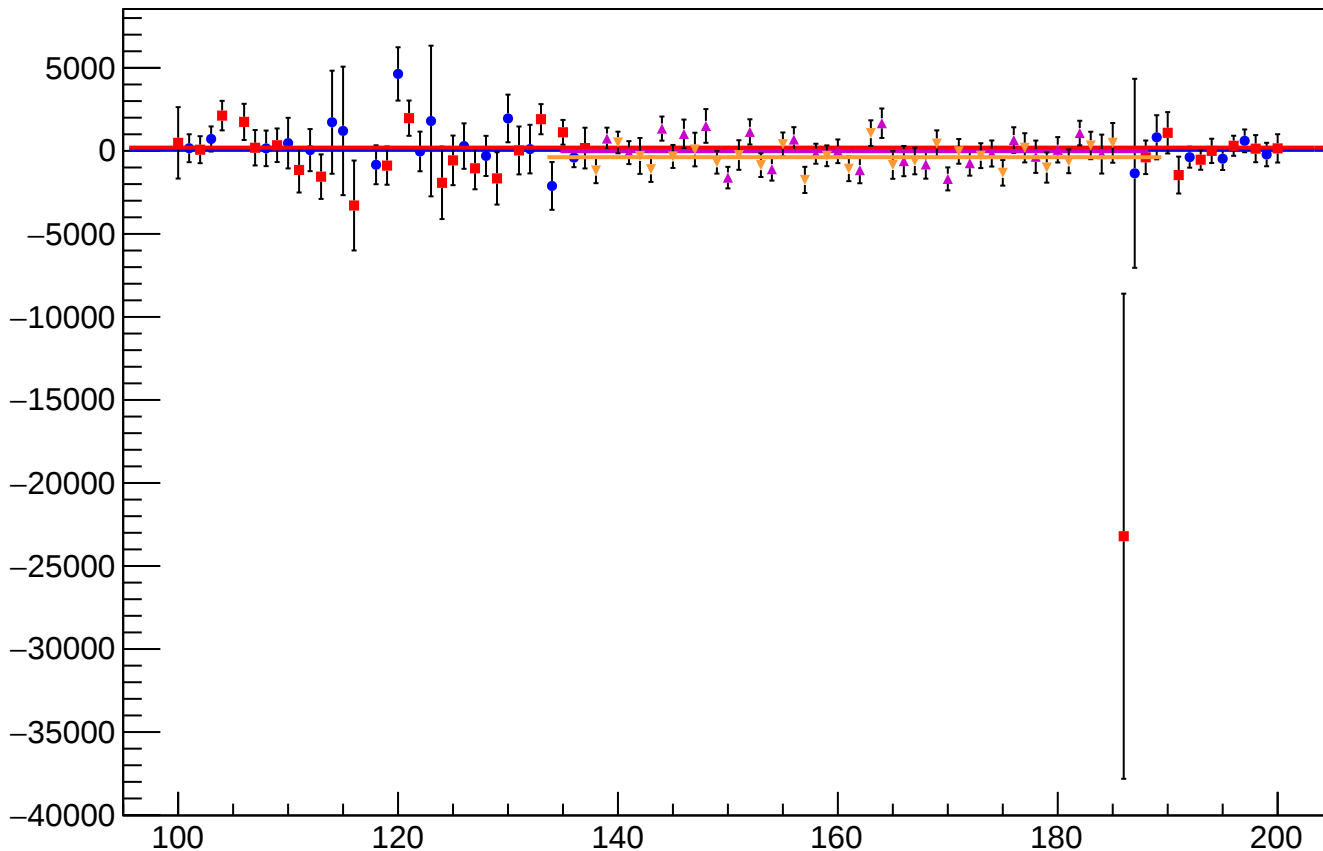
Right: 659.847+/-0.100 χ^2/NDF : 2711125.7/50

In: 655.605+/-0.089 χ^2/NDF : 1423632.2/45

Out: 655.649+/-0.085 χ^2/NDF : 2124592.2/52

All: 655.628+/-0.061 χ^2/NDF : 3548224.6/98

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 62.567 ± 212.370 $\chi^2/\text{NDF}: 17.1/22$

Left Out: -379.470 ± 155.892 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 197.615 ± 192.263 $\chi^2/\text{NDF}: 30.7/27$

Left In: -14.768 ± 159.513 $\chi^2/\text{NDF}: 37.2/22$

Left: -201.306 ± 111.491 $\chi^2/\text{NDF}: 58.7/47$

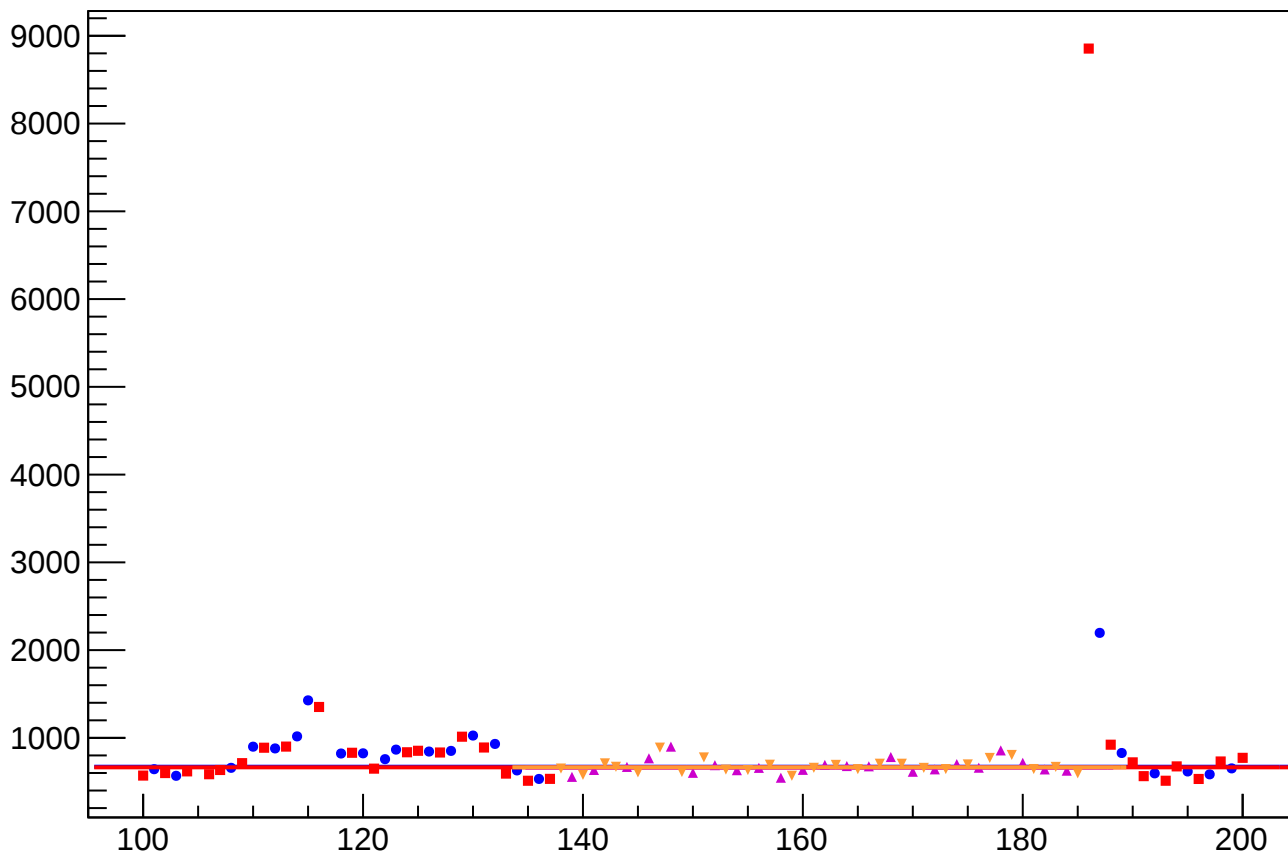
Right: 136.785 ± 142.530 $\chi^2/\text{NDF}: 48.0/50$

In: 13.126 ± 127.543 $\chi^2/\text{NDF}: 54.4/45$

Out: -150.563 ± 121.089 $\chi^2/\text{NDF}: 54.9/52$

All: -72.965 ± 87.816 $\chi^2/\text{NDF}: 110.2/98$

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 671.417+/-0.150 χ^2/NDF : 931064.2/22

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 664.306+/-0.136 χ^2/NDF : 1720552.7/27

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

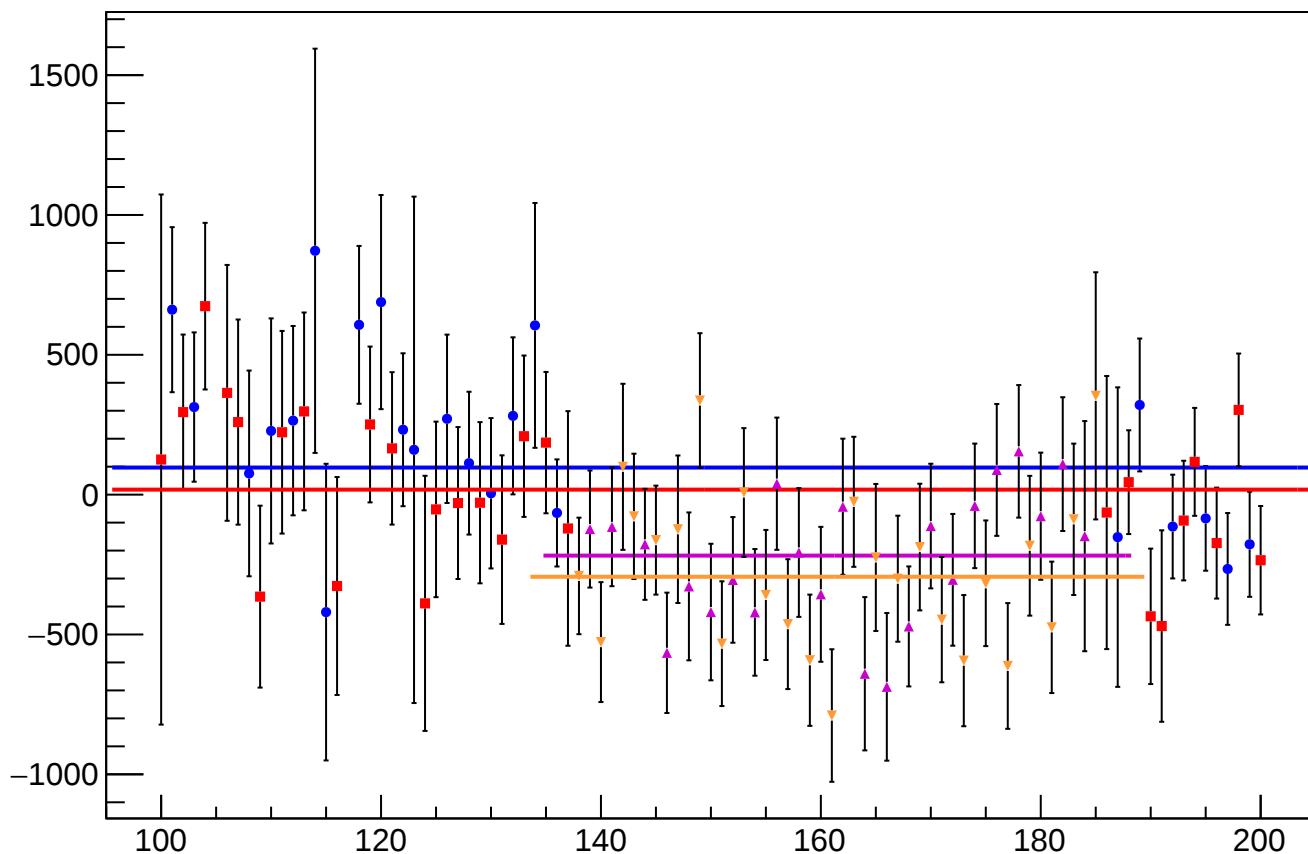
Right: 667.509+/-0.101 χ^2/NDF : 2652849.5/50

In: 664.687+/-0.090 χ^2/NDF : 1383385.9/45

Out: 664.587+/-0.086 χ^2/NDF : 2077613.7/52

All: 664.635+/-0.062 χ^2/NDF : 3461000.3/98

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected

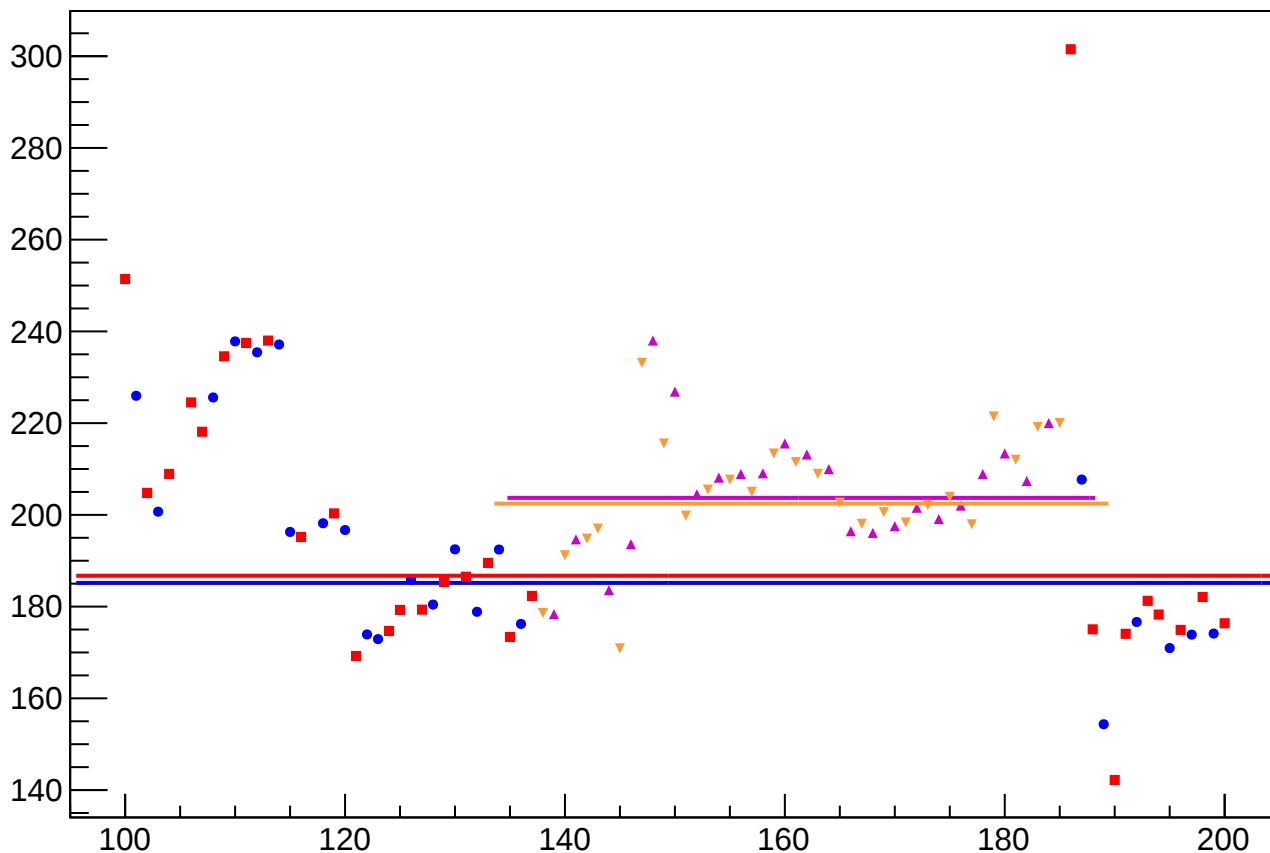


Right In: 96.891 $\pm$ 57.274 χ^2 /NDF: 24.4/22
 Left Out: -293.590 $\pm$ 47.203 χ^2 /NDF:30.3/24
 Right Out: 17.901 $\pm$ 52.363 χ^2 /NDF: 24.0/27
 Left In: -217.964 $\pm$ 48.819 χ^2 /NDF:21.3/22

Left: -257.050 $\pm$ 33.934 χ^2 /NDF: 52.9/47
 Right: 53.865 $\pm$ 38.646 χ^2 /NDF: 49.4/50
 In: -85.470 $\pm$ 37.153 χ^2 /NDF:63.2/45
 Out: -153.945 $\pm$ 35.060 χ^2 /NDF:73.8/52

All: -121.690 $\pm$ 25.499 χ^2 /NDF: 138.8/98

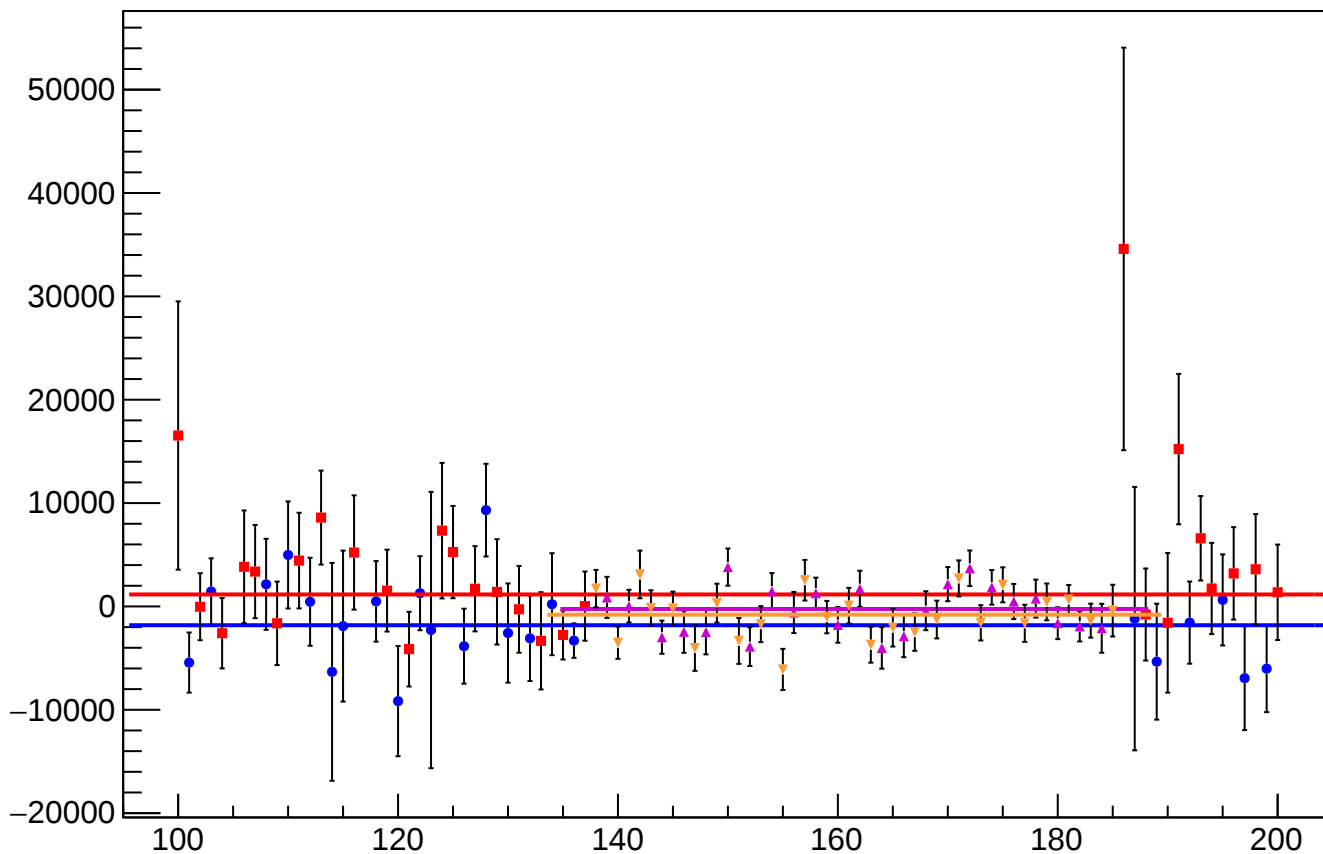
reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 185.166 $\pm$ 0.040 χ^2 /NDF: 242853.2/22
 Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24
 Right Out: 186.727 $\pm$ 0.037 χ^2 /NDF: 413647.2/27
 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: 186.016 $\pm$ 0.027 χ^2 /NDF: 657309.6/50
 In: 195.900 $\pm$ 0.026 χ^2 /NDF:500340.5/45
 Out: 195.406 $\pm$ 0.025 χ^2 /NDF:671826.0/52
 All: 195.638 $\pm$ 0.018 χ^2 /NDF: 1172353.5/98

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1818.405 $\pm$ 830.548 χ^2 /NDF: 18.9/22

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF: 35.7/24

Right Out: 1160.097 $\pm$ 822.773 χ^2 /NDF: 24.5/27

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

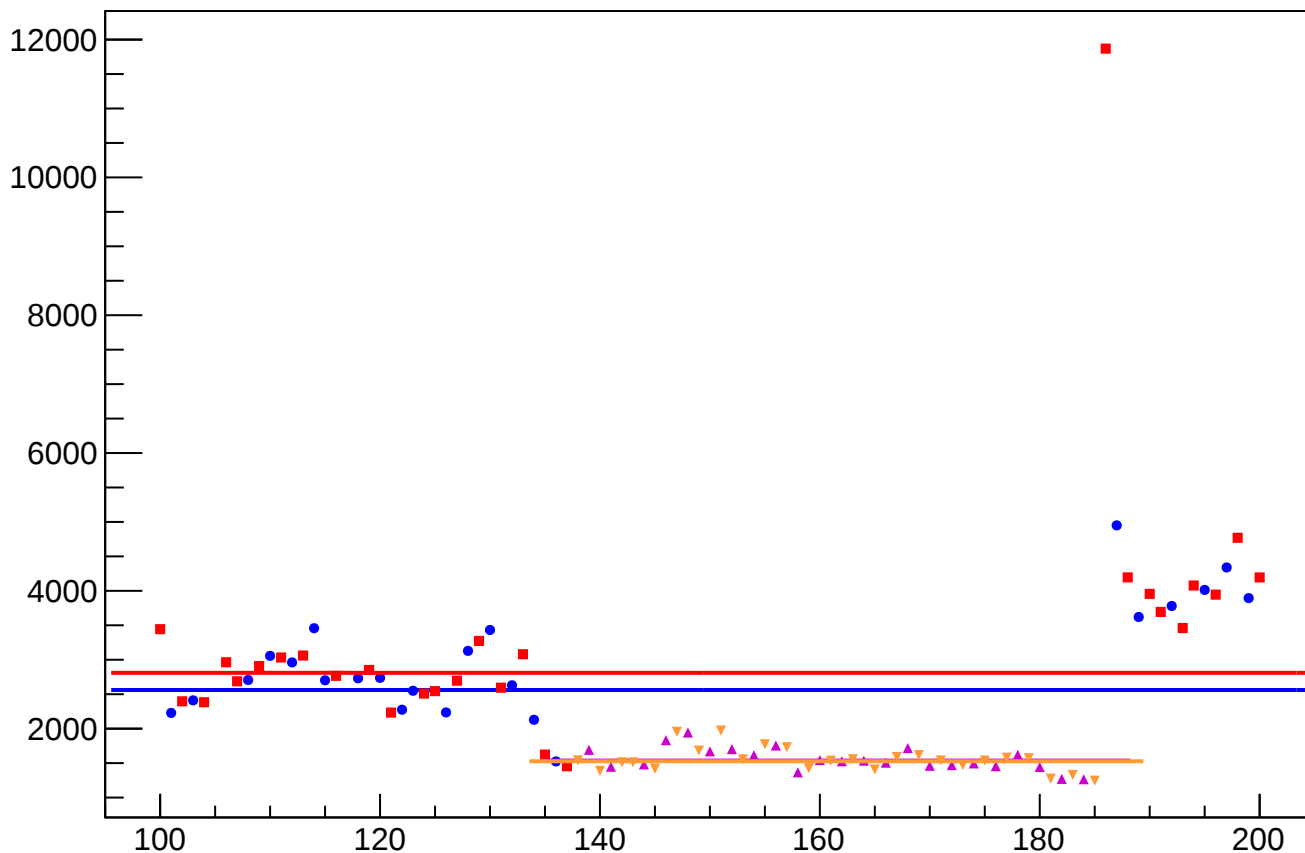
Right: -315.147 $\pm$ 584.518 χ^2 /NDF: 49.8/50

In: -505.454 $\pm$ 337.862 χ^2 /NDF: 57.6/45

Out: -485.278 $\pm$ 328.156 χ^2 /NDF: 65.0/52

All: -495.072 $\pm$ 235.398 χ^2 /NDF: 122.5/98

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2561.190+/-0.587 χ^2/NDF : 2004860.5/22

Left Out: 1526.712+/-0.253 χ^2/NDF : 394892.7/24

Right Out: 2810.342+/-0.582 χ^2/NDF : 2513712.1/27

Left In: 1536.538+/-0.262 χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182 χ^2/NDF : 745995.2/47

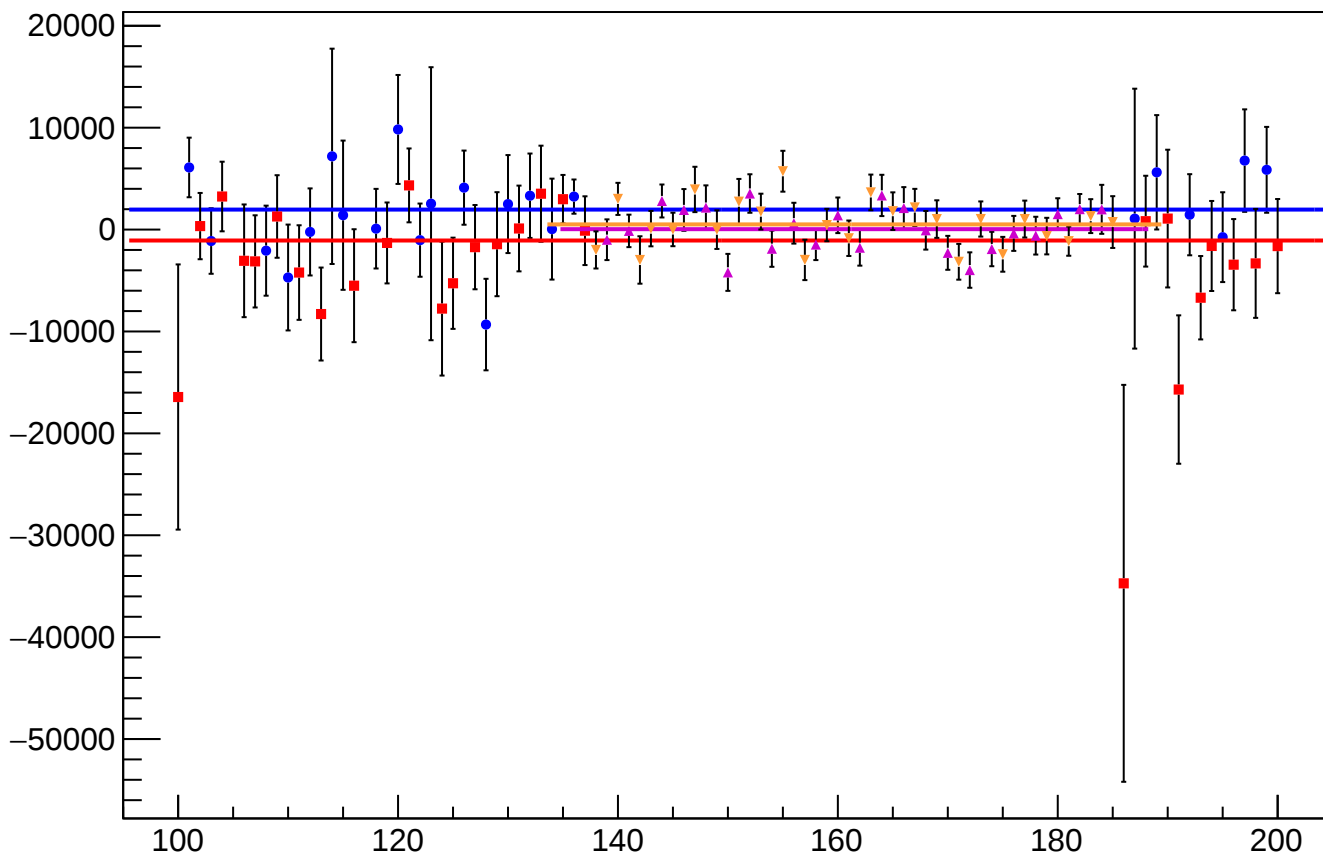
Right: 2686.938+/-0.413 χ^2/NDF : 4609410.1/50

In: 1706.098+/-0.239 χ^2/NDF : 4895558.8/45

Out: 1730.905+/-0.232 χ^2/NDF : 7002222.5/52

All: 1718.863+/-0.166 χ^2/NDF : 11903329.2/95

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1962.149 ± 833.726 $\chi^2/\text{NDF}: 19.1/22$

Left Out: 507.982 ± 361.172 $\chi^2/\text{NDF}: 35.4/24$

Right Out: -1072.840 ± 825.552 $\chi^2/\text{NDF}: 25.3/27$

Left In: 40.080 ± 373.261 $\chi^2/\text{NDF}: 33.6/22$

Left: 281.730 ± 259.556 $\chi^2/\text{NDF}: 69.8/47$

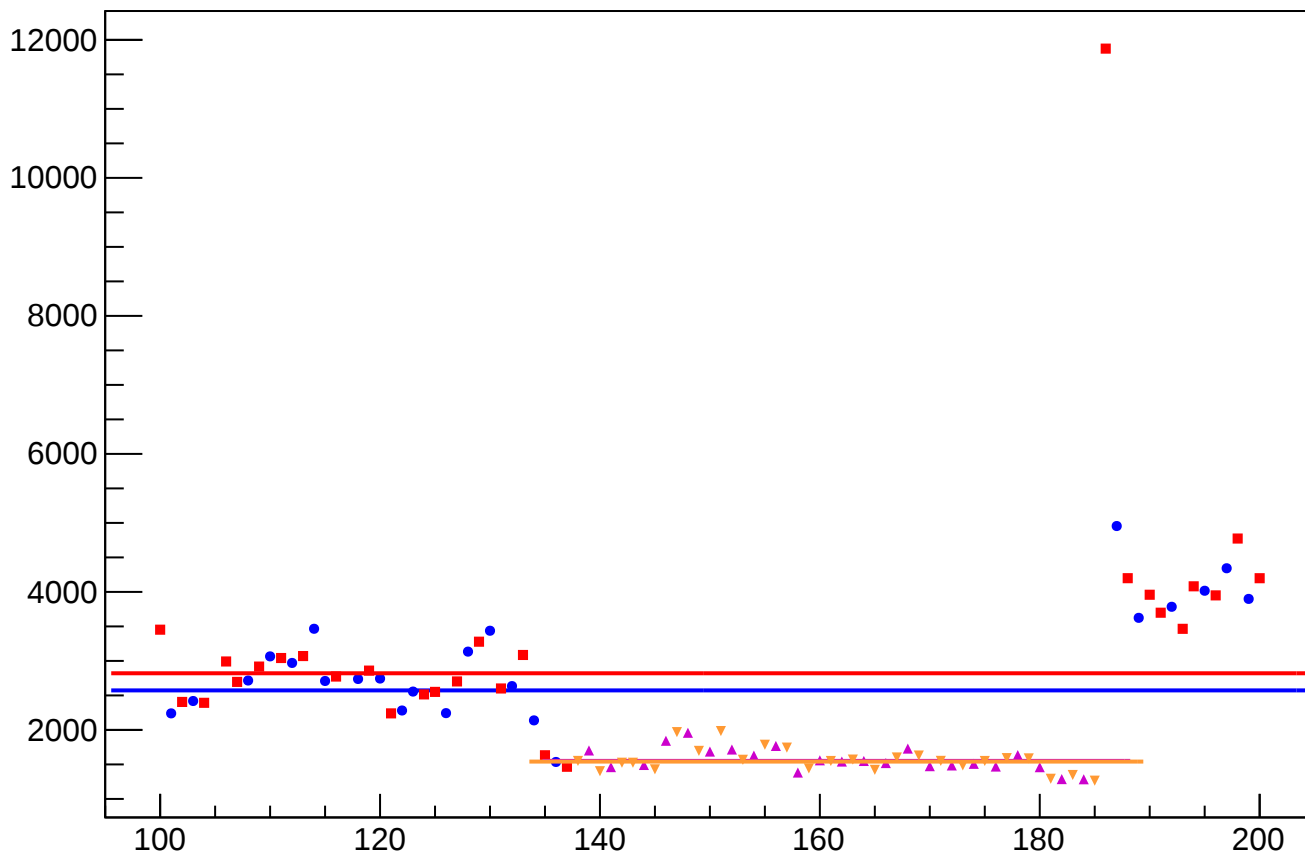
Right: 429.705 ± 586.622 $\chi^2/\text{NDF}: 51.1/50$

In: 361.008 ± 340.677 $\chi^2/\text{NDF}: 57.1/45$

Out: 254.022 ± 330.892 $\chi^2/\text{NDF}: 63.8/52$

All: 305.956 ± 237.360 $\chi^2/\text{NDF}: 120.9/98$

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2572.806 $\pm$ 0.590

χ^2/NDF : 1979395.9/22

Left: 1546.000 $\pm$ 0.184

χ^2/NDF : 721657.1/47

Left Out: 1541.258 $\pm$ 0.255

χ^2/NDF : 382045.4/24

Right: 2698.108 $\pm$ 0.415

χ^2/NDF : 4559121.8/50

Right Out: 2820.964 $\pm$ 0.584

χ^2/NDF : 2490257.6/27

In: 1721.664 $\pm$ 0.241

χ^2/NDF : 4820522.9/45

Out: 1746.844 $\pm$ 0.234

χ^2/NDF : 6906005.9/52

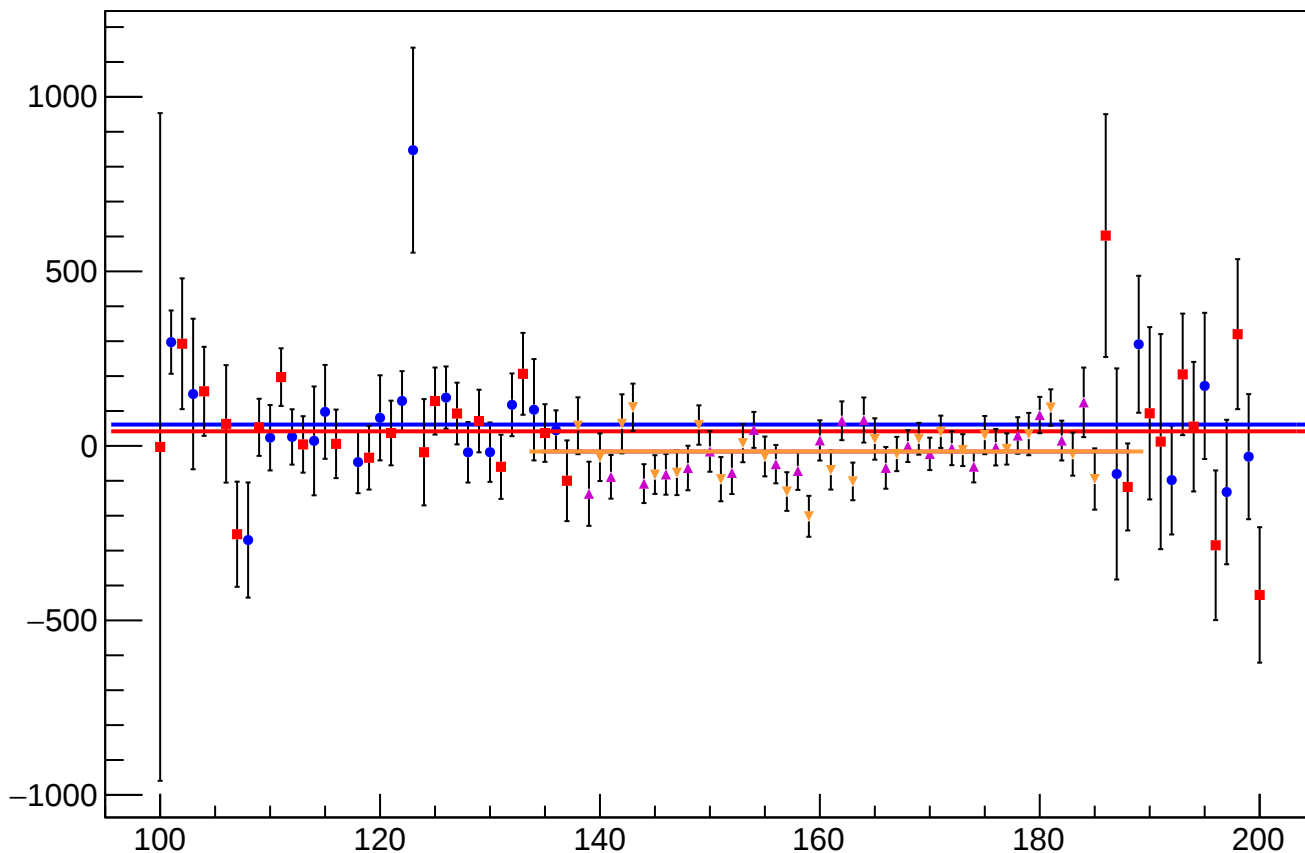
Left In: 1551.063 $\pm$ 0.264

χ^2/NDF : 338898.9/22

All: 1734.621 $\pm$ 0.168

χ^2/NDF : 11732150.9/95

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 61.132 ± 22.812 $\chi^2/\text{NDF}: 27.8/22$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 41.792 ± 22.321 $\chi^2/\text{NDF}: 32.2/27$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

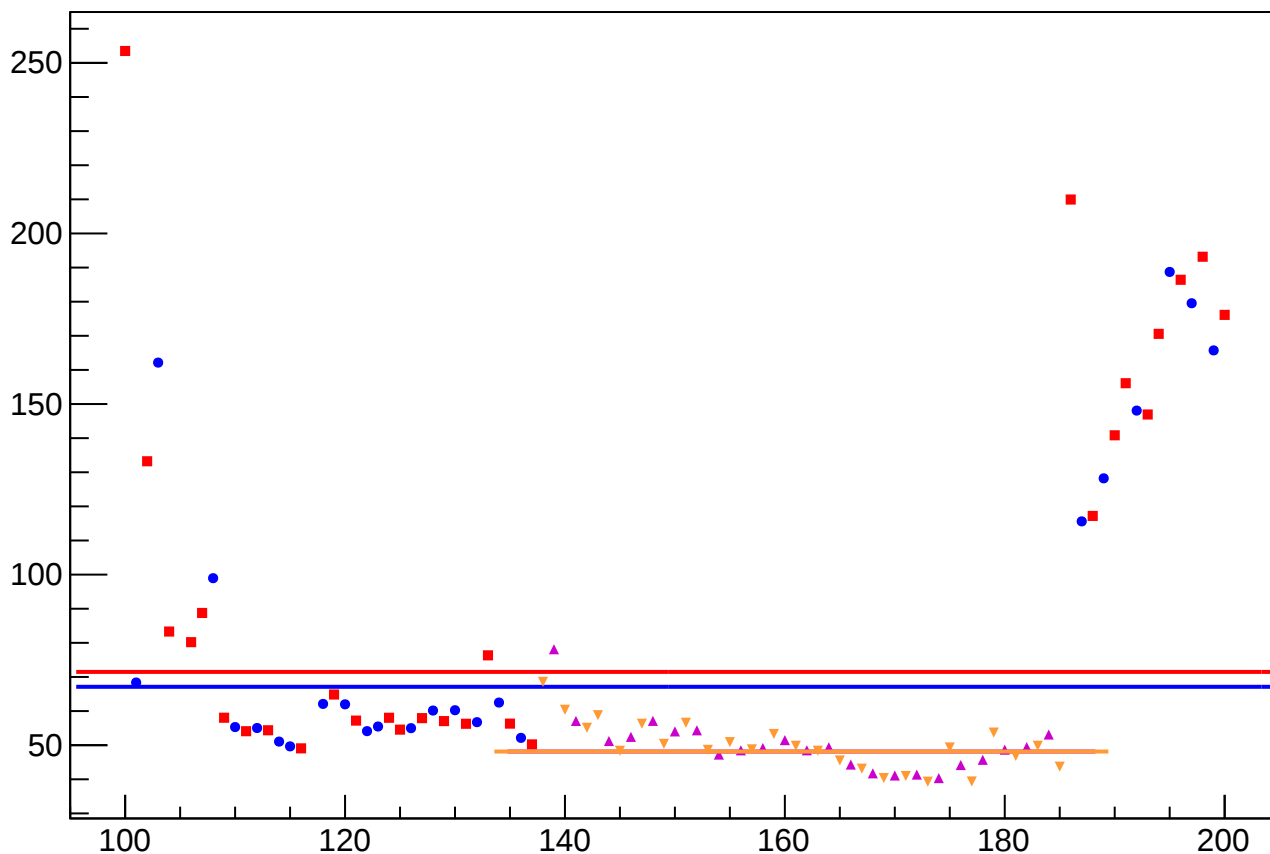
Right: 51.252 ± 15.954 $\chi^2/\text{NDF}: 60.4/50$

In: -0.173 ± 10.375 $\chi^2/\text{NDF}: 62.2/45$

Out: -4.183 ± 10.110 $\chi^2/\text{NDF}: 77.2/52$

All: -2.230 ± 7.241 $\chi^2/\text{NDF}: 139.4/98$

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 67.115+/-0.016 χ^2/NDF : 3539617.8/22

Left Out: 48.141+/-0.008 χ^2/NDF : 655250.3/24

Right Out: 71.480+/-0.016 χ^2/NDF : 4740055.1/27

Left In: 48.139+/-0.008 χ^2/NDF : 575025.5/22

Left: 48.140+/-0.006 χ^2/NDF : 1230275.9/47

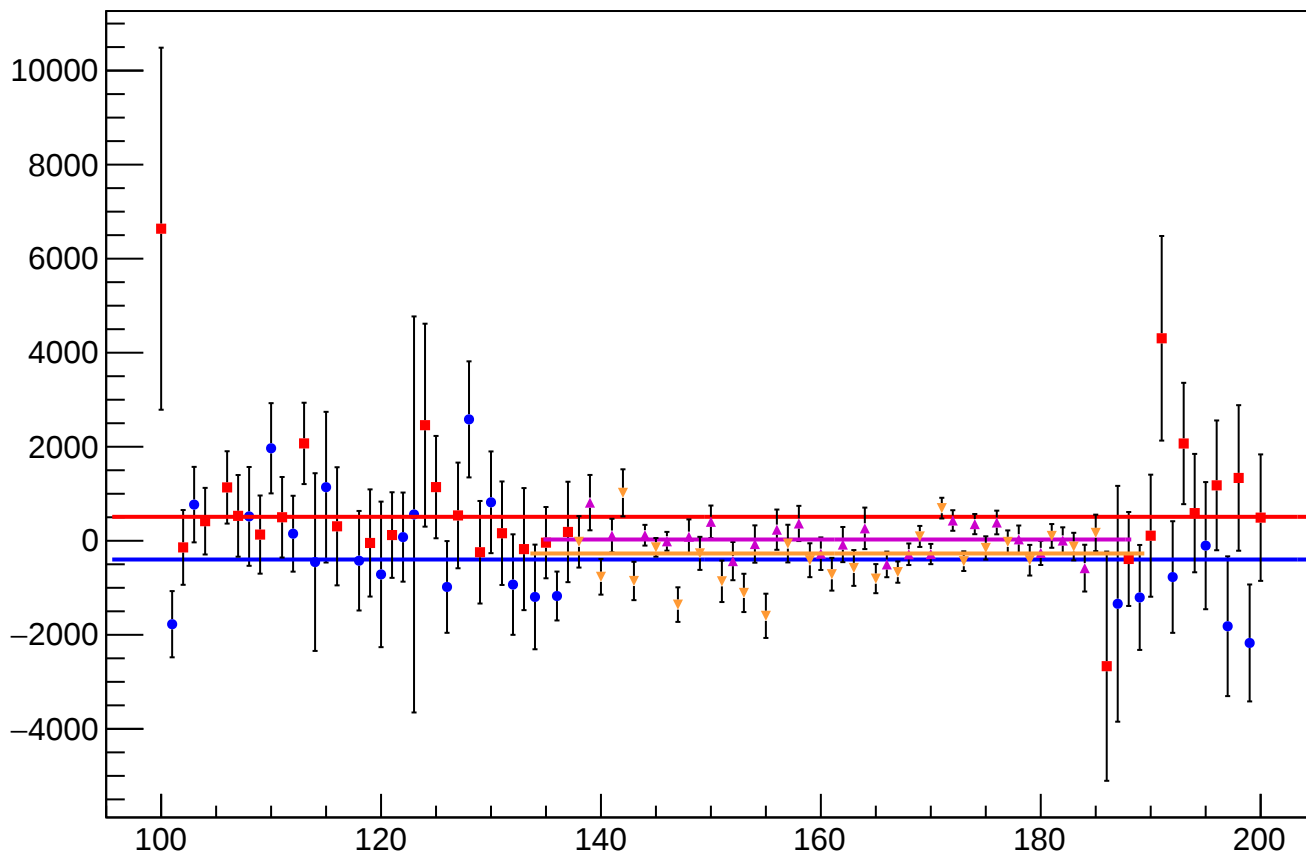
Right: 69.345+/-0.011 χ^2/NDF : 8317091.0/50

In: 52.064+/-0.007 χ^2/NDF : 5212275.6/45

Out: 52.929+/-0.007 χ^2/NDF : 7133387.1/52

All: 52.508+/-0.005 χ^2/NDF : 12352788.3/98

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -398.223 ± 215.622 χ^2/NDF : 28.7/22

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 509.629 ± 200.615 χ^2/NDF : 18.0/27

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

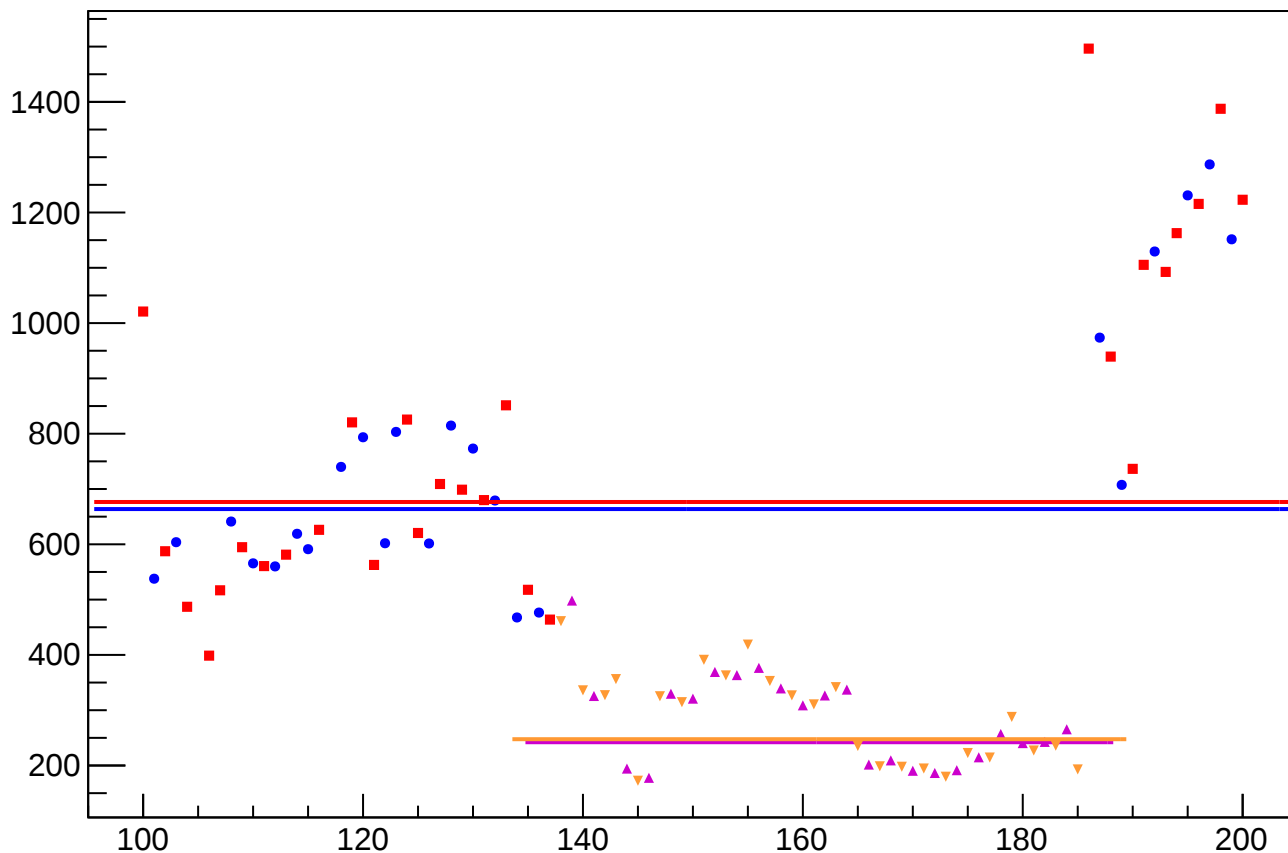
Right: 88.391 ± 146.875 χ^2/NDF : 56.3/50

In: -3.716 ± 58.188 χ^2/NDF : 57.4/45

Out: -205.837 ± 57.640 χ^2/NDF : 102.0/52

All: -105.733 ± 40.950 χ^2/NDF : 165.5/98

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 663.731+/-0.152 χ^2/NDF : 1903792.9/22

Left Out: 247.570+/-0.043 χ^2/NDF : 2780931.0/24

Right Out: 676.530+/-0.142 χ^2/NDF : 2890323.4/27

Left In: 242.117+/-0.043 χ^2/NDF : 2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

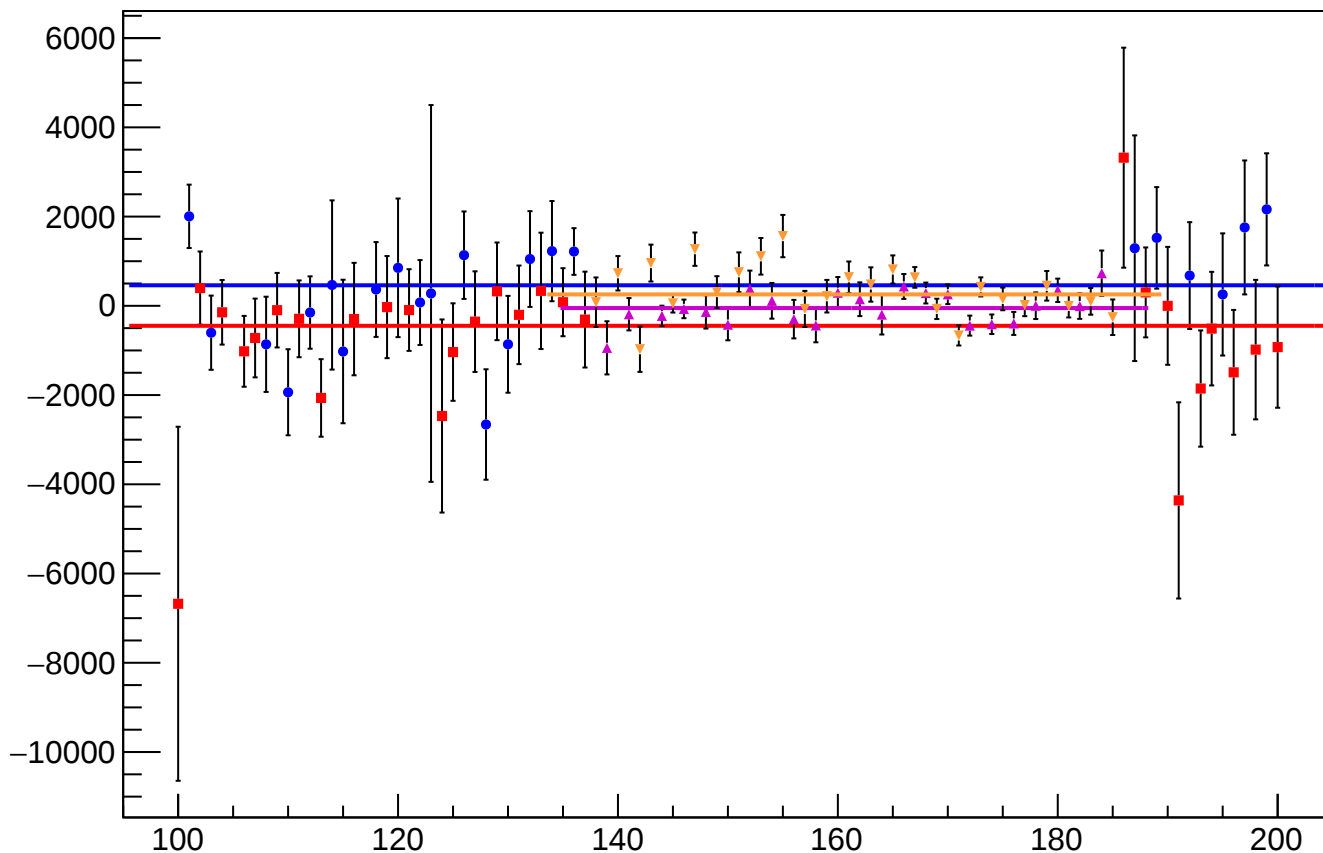
Right: 670.591+/-0.104 χ^2/NDF : 4797893.1/50

In: 272.821+/-0.041 χ^2/NDF : 11459773.5/45

Out: 282.981+/-0.041 χ^2/NDF : 14060376.1/52

All: 277.949+/-0.029 χ^2/NDF : 25550925.8/98

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 460.301 $\pm$ 217.577 χ^2 /NDF: 30.5/22

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -447.809 $\pm$ 202.909 χ^2 /NDF: 19.0/27

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

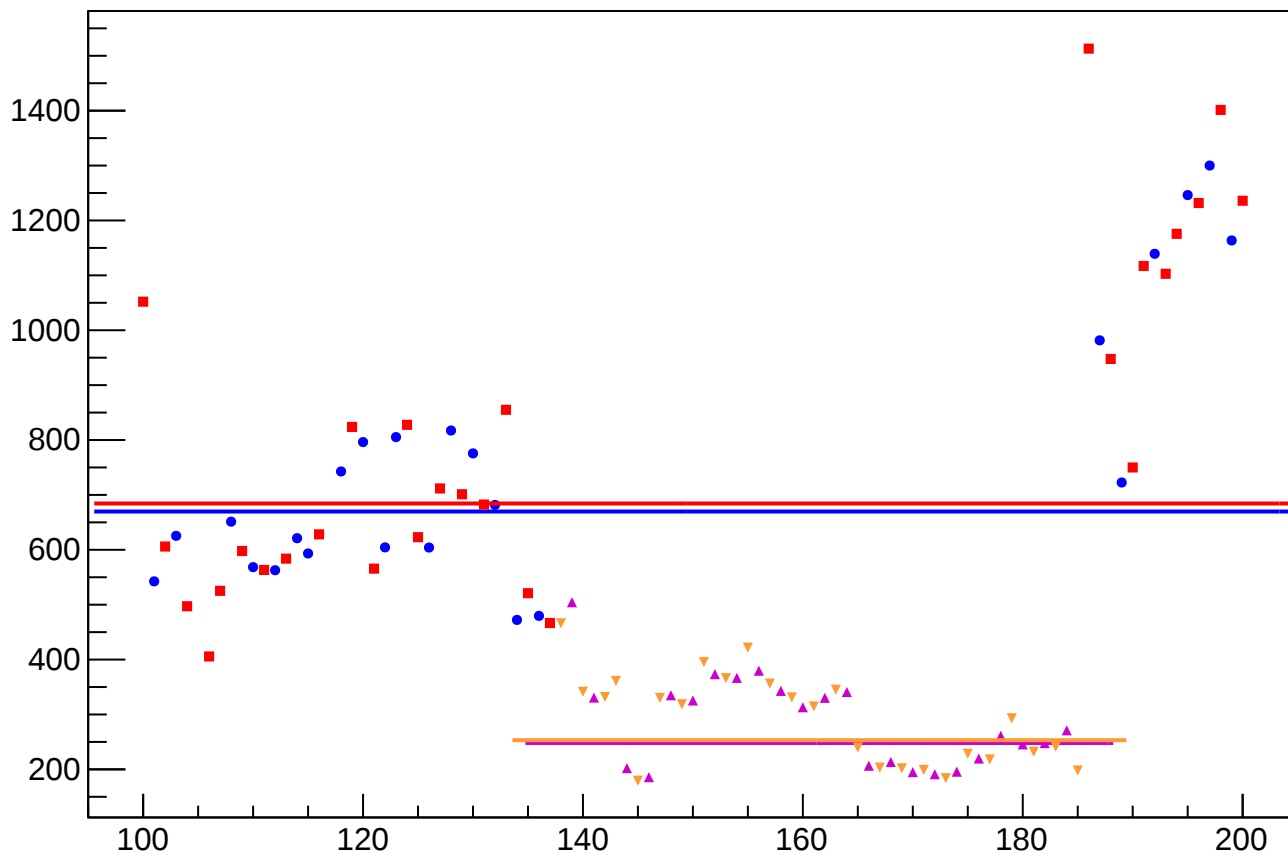
Right: -25.393 $\pm$ 148.393 χ^2 /NDF: 58.8/50

In: -11.770 $\pm$ 59.432 χ^2 /NDF:63.1/45

Out: 196.924 $\pm$ 58.784 χ^2 /NDF:93.6/52

All: 93.720 $\pm$ 41.794 χ^2 /NDF: 163.0/98

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 669.738 $\pm$ 0.154 χ^2 /NDF: 1908720.1/22

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF: 2665975.8/24

Right Out: 684.372 $\pm$ 0.143 χ^2 /NDF: 2866638.5/27

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

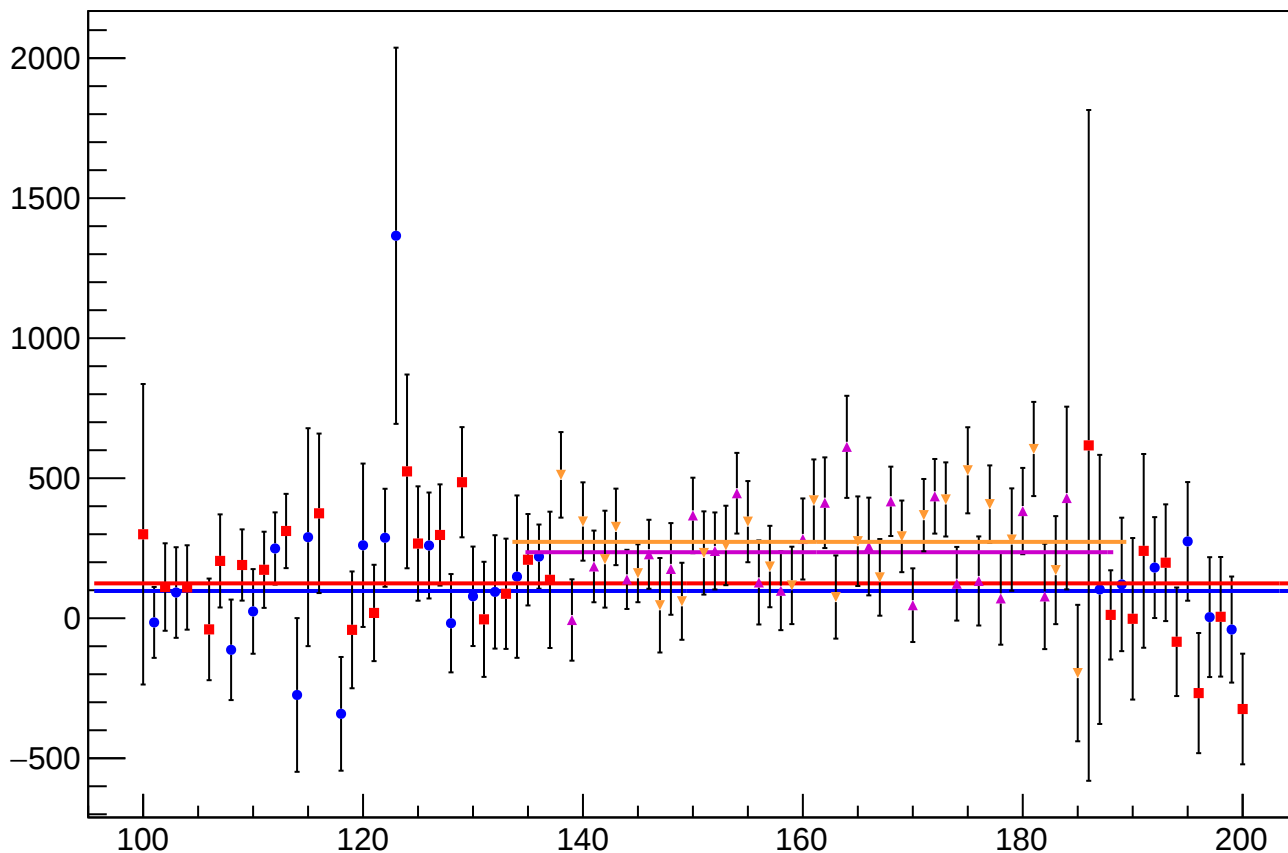
Right: 677.565 $\pm$ 0.105 χ^2 /NDF: 4780197.8/50

In: 279.530 $\pm$ 0.042 χ^2 /NDF: 11203390.8/45

Out: 289.331 $\pm$ 0.042 χ^2 /NDF: 13807889.9/52

All: 284.484 $\pm$ 0.030 χ^2 /NDF: 25038772.5/98

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 97.342 $\pm$ 39.051 χ^2 /NDF: 19.6/22

Left Out: 272.684 $\pm$ 29.221 χ^2 /NDF:27.4/24

Right Out: 124.491 $\pm$ 36.060 χ^2 /NDF: 23.2/27

Left In: 235.801 $\pm$ 30.232 χ^2 /NDF:24.6/22

Left: 254.870 $\pm$ 21.011 χ^2 /NDF: 52.8/47

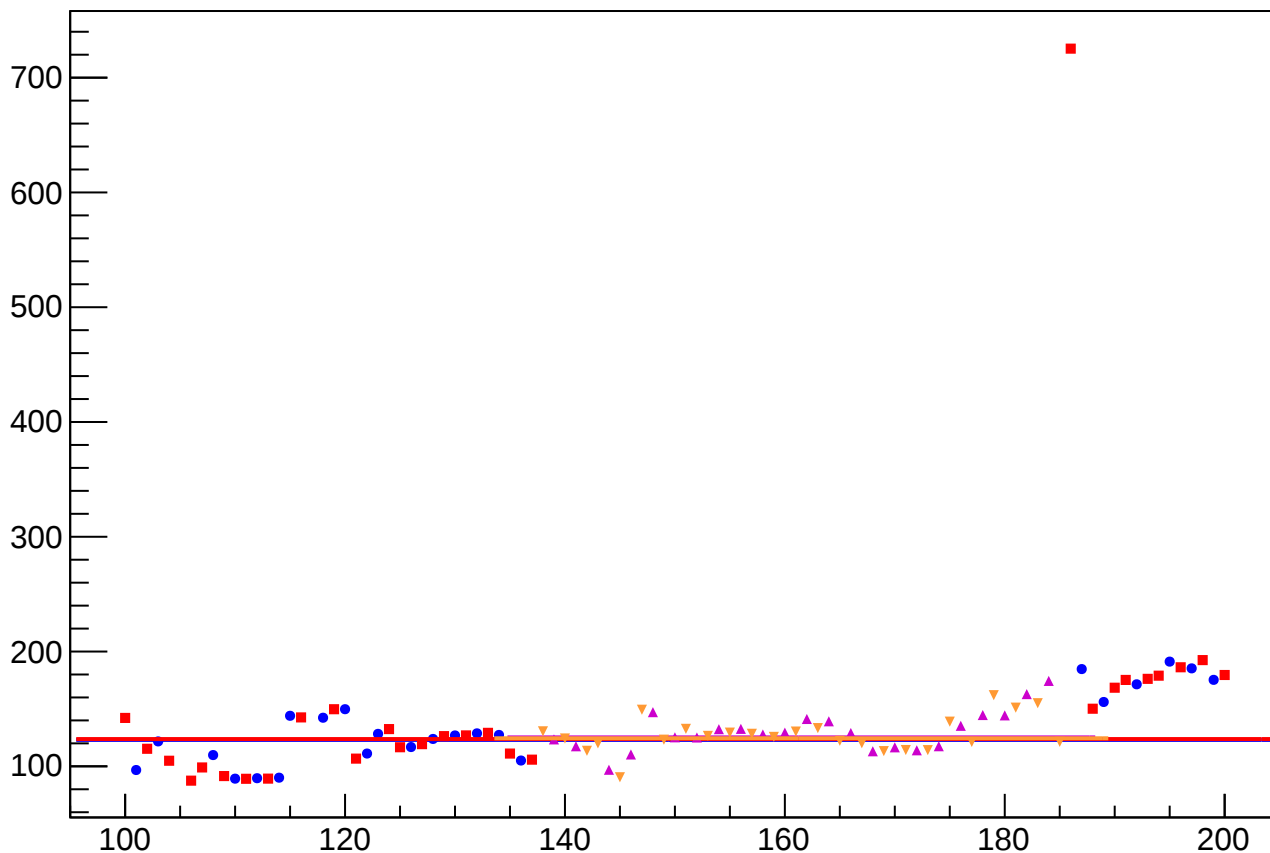
Right: 111.996 $\pm$ 26.493 χ^2 /NDF: 43.0/50

In: 183.917 $\pm$ 23.905 χ^2 /NDF:52.1/45

Out: 213.944 $\pm$ 22.703 χ^2 /NDF:60.8/52

All: 199.704 $\pm$ 16.462 χ^2 /NDF: 113.7/98

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 123.020 $\pm$ 0.028 χ^2 /NDF: 1209588.6/22

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 123.739 $\pm$ 0.025 χ^2 /NDF: 2124948.6/27

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

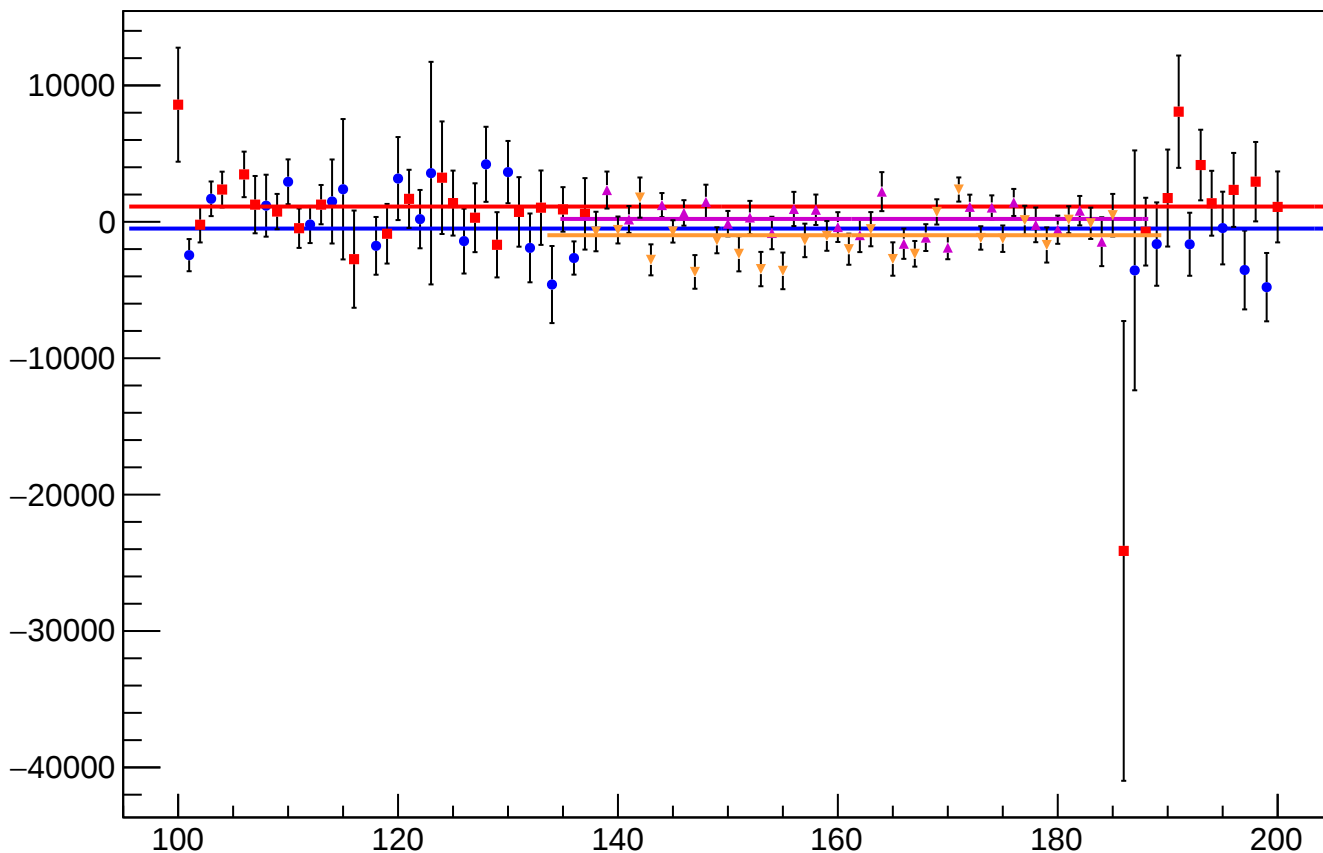
Right: 123.408 $\pm$ 0.019 χ^2 /NDF: 3334903.4/50

In: 124.386 $\pm$ 0.017 χ^2 /NDF: 1714893.0/45

Out: 124.155 $\pm$ 0.016 χ^2 /NDF: 2665122.1/52

All: 124.265 $\pm$ 0.012 χ^2 /NDF: 4380113.2/98

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -494.618+/-432.861 χ^2/NDF : 30.0/22

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1119.648+/-398.515 χ^2/NDF : 20.0/27

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

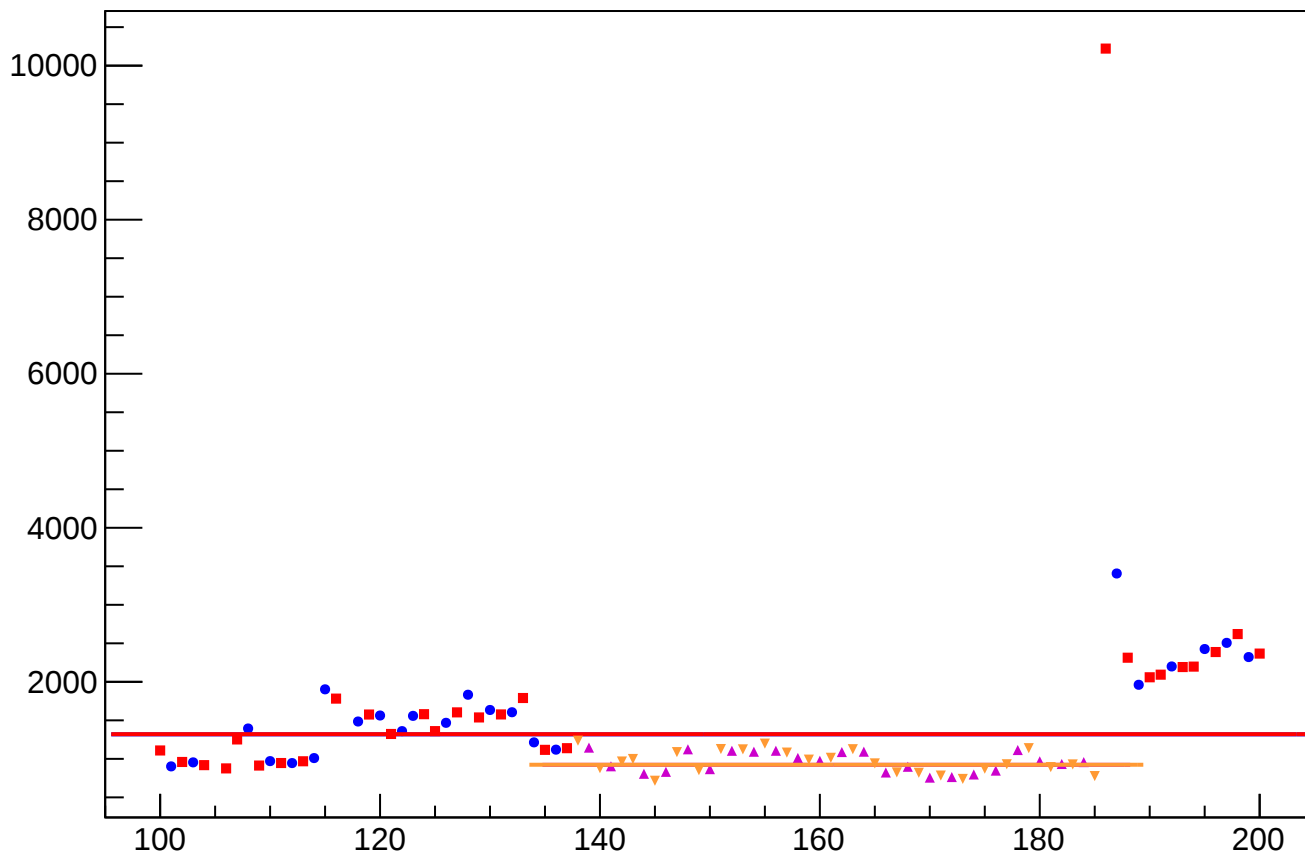
Right: 379.090+/-293.184 χ^2/NDF : 57.6/50

In: 63.024+/-198.447 χ^2/NDF : 57.8/45

Out: -498.520+/-191.269 χ^2/NDF : 88.7/52

All: -228.088+/-137.715 χ^2/NDF : 150.6/98

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1317.821+/-0.306 χ^2/NDF : 2423766.3/22

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1320.461+/-0.282 χ^2/NDF : 3740806.8/27

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

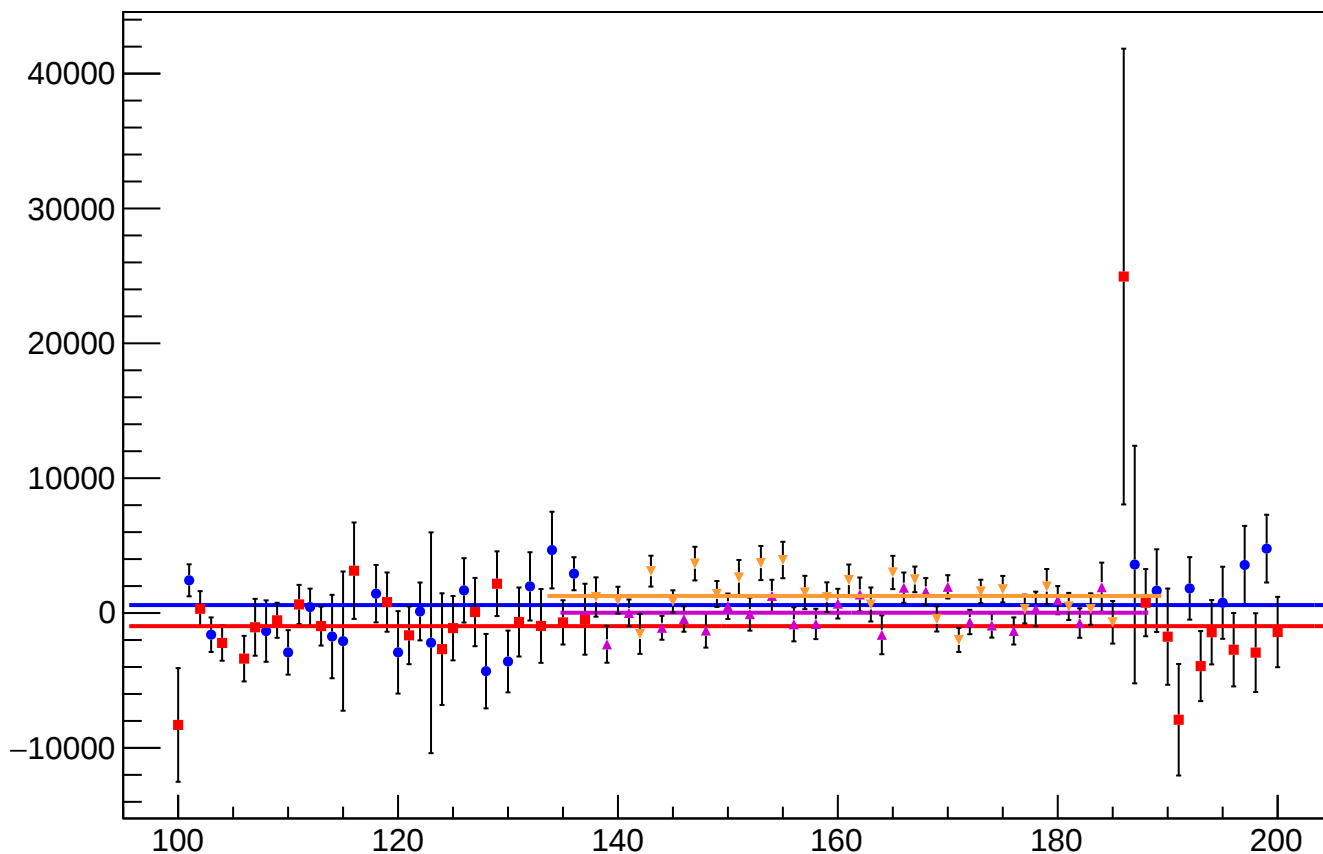
Right: 1319.250+/-0.207 χ^2/NDF : 6164613.4/50

In: 1005.388+/-0.140 χ^2/NDF : 4377707.5/45

Out: 1015.008+/-0.135 χ^2/NDF : 6110210.3/52

All: 1010.375+/-0.097 χ^2/NDF : 10490354.6/95

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 589.872 ± 434.878 $\chi^2/\text{NDF}: 30.1/22$

Left Out: 1267.344 ± 220.133 $\chi^2/\text{NDF}: 44.9/24$

Right Out: -972.232 ± 400.541 $\chi^2/\text{NDF}: 20.4/27$

Left In: 23.478 ± 225.490 $\chi^2/\text{NDF}: 27.2/22$

Left: 660.362 ± 157.518 $\chi^2/\text{NDF}: 87.7/47$

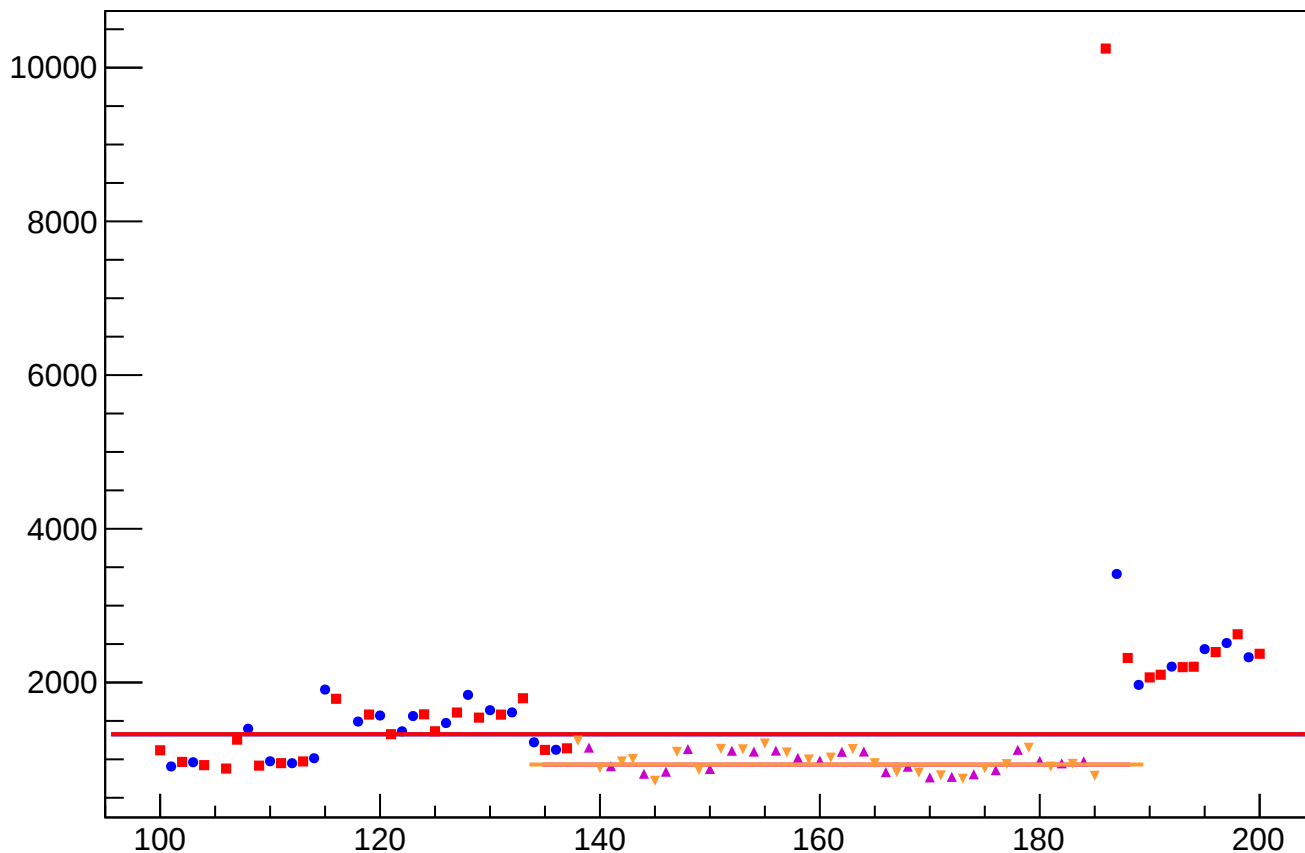
Right: -255.278 ± 294.617 $\chi^2/\text{NDF}: 57.5/50$

In: 143.490 ± 200.180 $\chi^2/\text{NDF}: 58.6/45$

Out: 747.807 ± 192.918 $\chi^2/\text{NDF}: 89.4/52$

All: 456.810 ± 138.910 $\chi^2/\text{NDF}: 152.7/98$

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1324.486+/-0.308 χ^2/NDF : 2410326.1/22

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1327.512+/-0.283 χ^2/NDF : 3722156.5/27

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

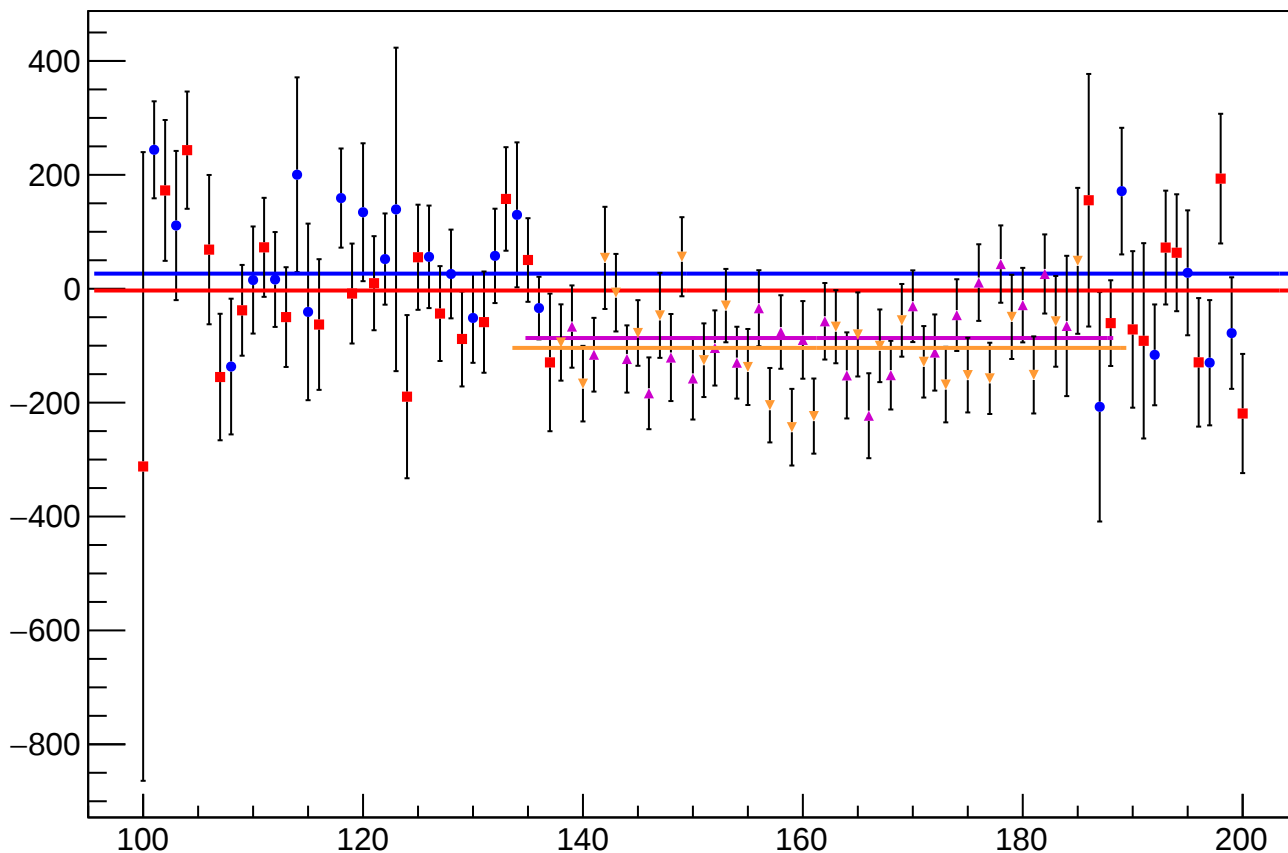
Right: 1326.123+/-0.208 χ^2/NDF : 6132535.0/50

In: 1014.763+/-0.142 χ^2/NDF : 4321978.3/45

Out: 1024.338+/-0.136 χ^2/NDF : 6043891.0/52

All: 1019.727+/-0.098 χ^2/NDF : 10368241.3/95

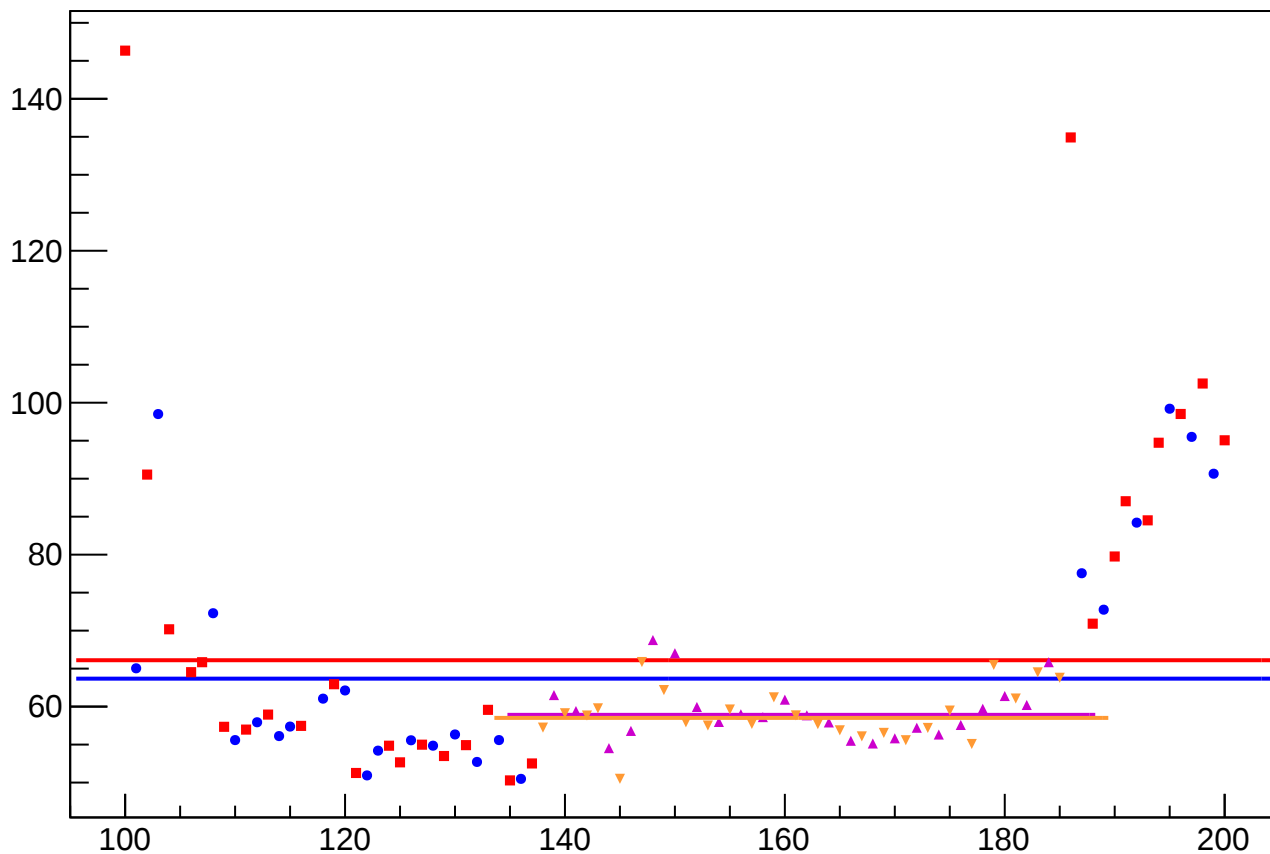
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 26.540 ± 20.168 $\chi^2/\text{NDF}: 25.3/22$
 Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$
 Right Out: -3.117 ± 19.048 $\chi^2/\text{NDF}: 31.4/27$
 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: 10.865 ± 13.848 $\chi^2/\text{NDF}: 57.8/50$
 In: -49.346 ± 11.567 $\chi^2/\text{NDF}: 67.8/45$
 Out: -69.730 ± 11.091 $\chi^2/\text{NDF}: 79.8/52$
 All: -59.966 ± 8.006 $\chi^2/\text{NDF}: 149.2/98$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 63.679+/-0.014 χ^2/NDF : 1115627.8/22

Left Out: 58.513+/-0.010 χ^2/NDF :123221.6/24

Right Out: 66.103+/-0.013 χ^2/NDF : 1554290.9/27

Left In: 58.913+/-0.010 χ^2/NDF :109968.0/22

Left: 58.706+/-0.007 χ^2/NDF : 234021.7/47

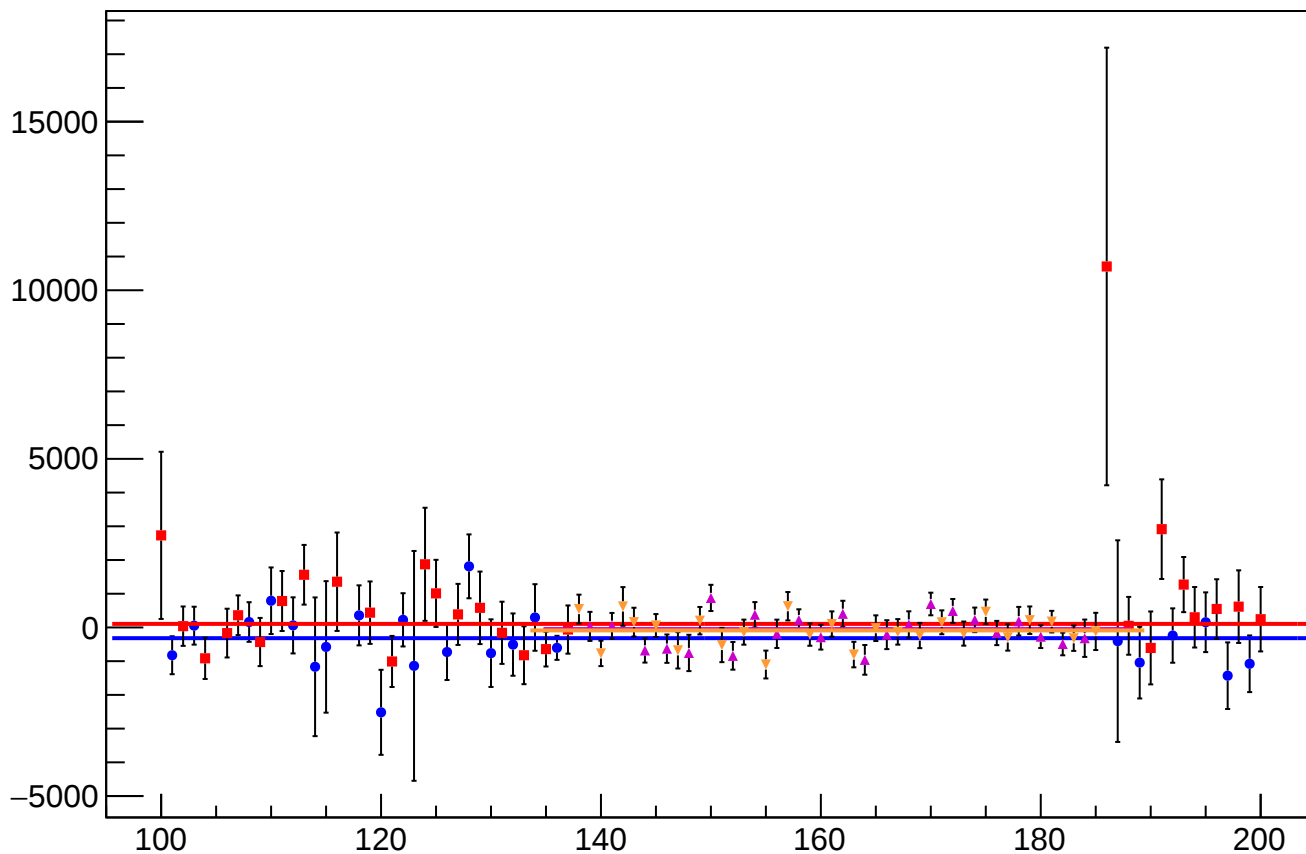
Right: 64.960+/-0.010 χ^2/NDF : 2685195.6/50

In: 60.481+/-0.008 χ^2/NDF :1300528.6/45

Out: 61.086+/-0.008 χ^2/NDF :1887425.2/52

All: 60.796+/-0.006 χ^2/NDF : 3190808.7/98

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -318.038 ± 167.468 χ^2/NDF : 17.1/22

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 105.635 ± 160.498 χ^2/NDF : 26.1/27

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

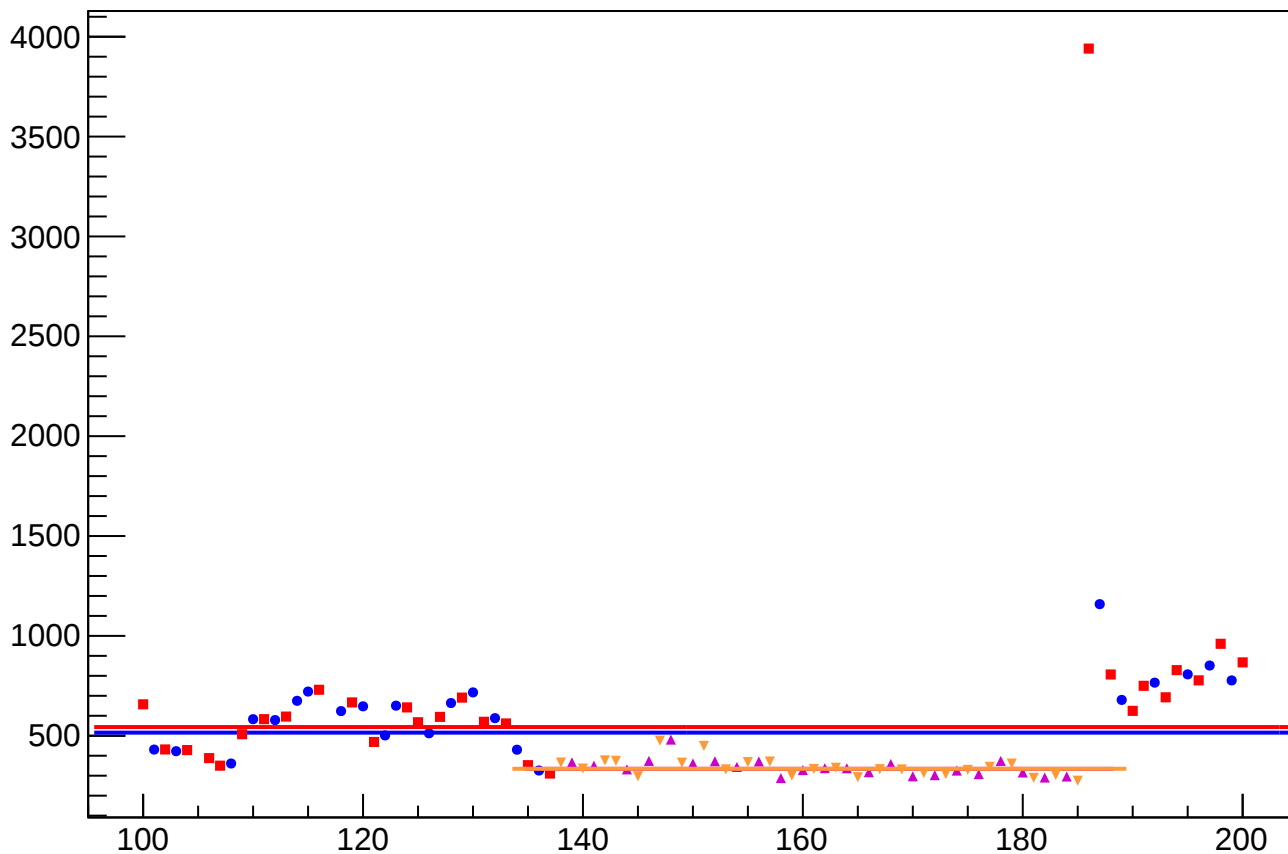
Right: -97.201 ± 115.875 χ^2/NDF : 46.6/50

In: -99.336 ± 72.588 χ^2/NDF : 54.6/45

Out: -50.140 ± 70.558 χ^2/NDF : 55.0/52

All: -74.040 ± 50.595 χ^2/NDF : 109.8/98

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 515.645+/-0.118 χ^2/NDF : 2047890.9/22

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 543.567+/-0.113 χ^2/NDF : 2826833.2/27

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

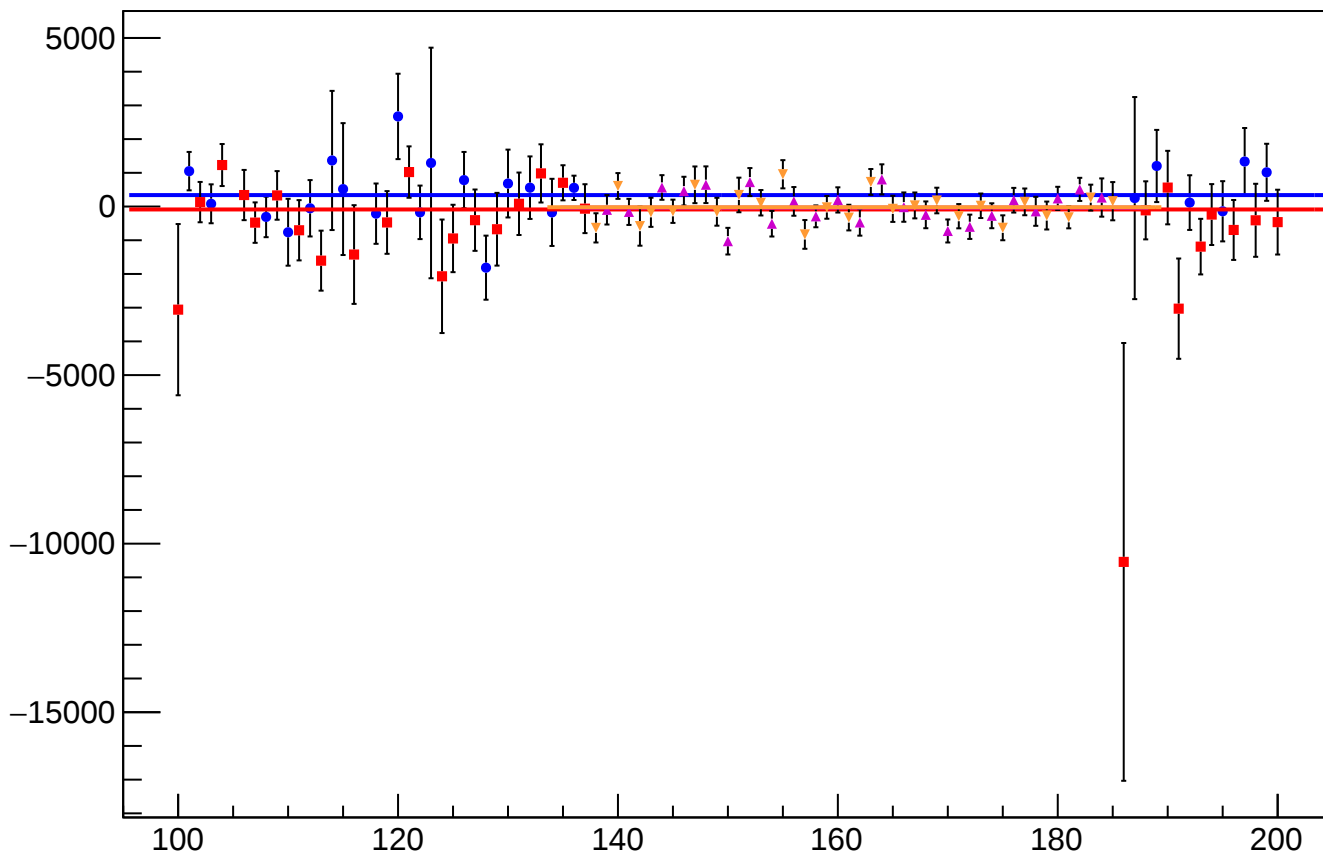
Right: 530.199+/-0.082 χ^2/NDF : 4903704.0/50

In: 368.245+/-0.051 χ^2/NDF : 4352900.7/45

Out: 375.106+/-0.050 χ^2/NDF : 6049446.8/52

All: 371.773+/-0.036 χ^2/NDF : 10411534.6/98

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 339.627 ± 169.296 χ^2/NDF : 17.8/22

Left Out: -20.895 ± 79.812 χ^2/NDF : 27.2/24

Right Out: -86.751 ± 162.280 χ^2/NDF : 29.4/27

Left In: -31.800 ± 81.839 χ^2/NDF : 34.0/22

Left: -26.211 ± 57.139 χ^2/NDF : 61.3/47

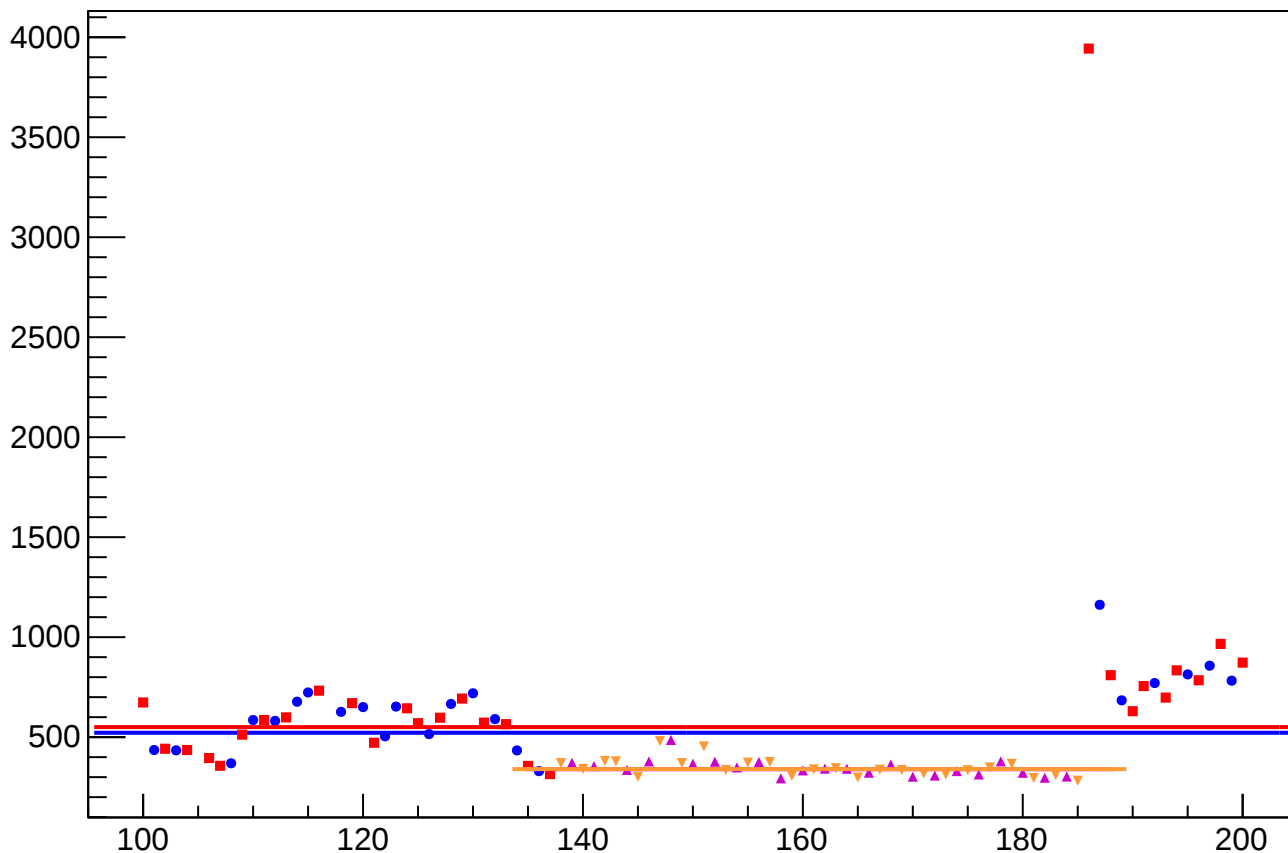
Right: 117.420 ± 117.151 χ^2/NDF : 50.5/50

In: 38.556 ± 73.682 χ^2/NDF : 55.7/45

Out: -33.722 ± 71.619 χ^2/NDF : 56.7/52

All: 1.391 ± 51.356 χ^2/NDF : 112.9/98

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 522.035 $\pm$ 0.120 χ^2 /NDF: 1995245.8/22

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 550.233 $\pm$ 0.115 χ^2 /NDF: 2766528.7/27

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

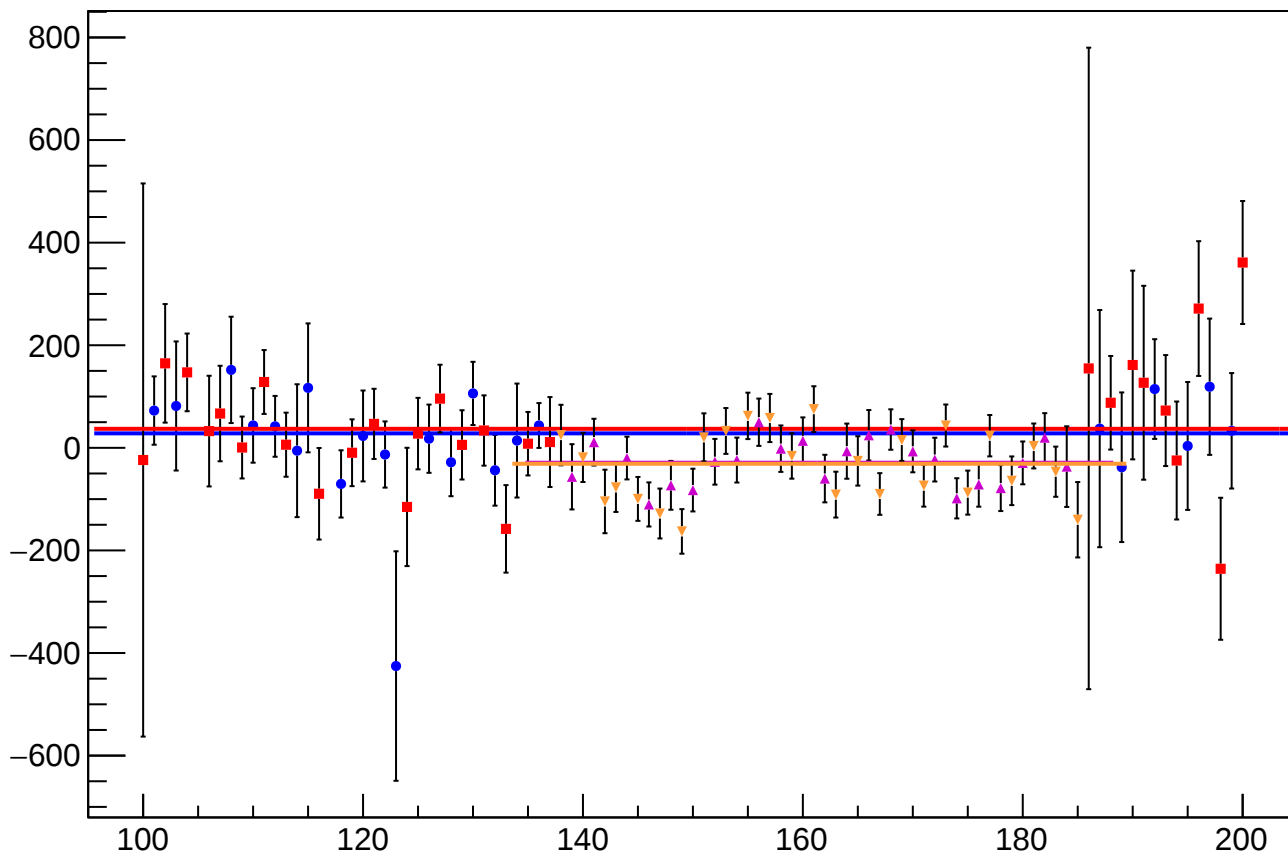
Right: 536.731 $\pm$ 0.083 χ^2 /NDF: 4790690.5/50

In: 374.174 $\pm$ 0.052 χ^2 /NDF: 4257183.8/45

Out: 381.139 $\pm$ 0.051 χ^2 /NDF: 5932141.4/52

All: 377.755 $\pm$ 0.036 χ^2 /NDF: 10198513.4/98

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 28.224+/-16.897 χ^2/NDF : 14.6/22

Left Out: -31.063+/-9.170 χ^2/NDF : 52.6/24

Right Out: 37.079+/-16.200 χ^2/NDF : 32.9/27

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

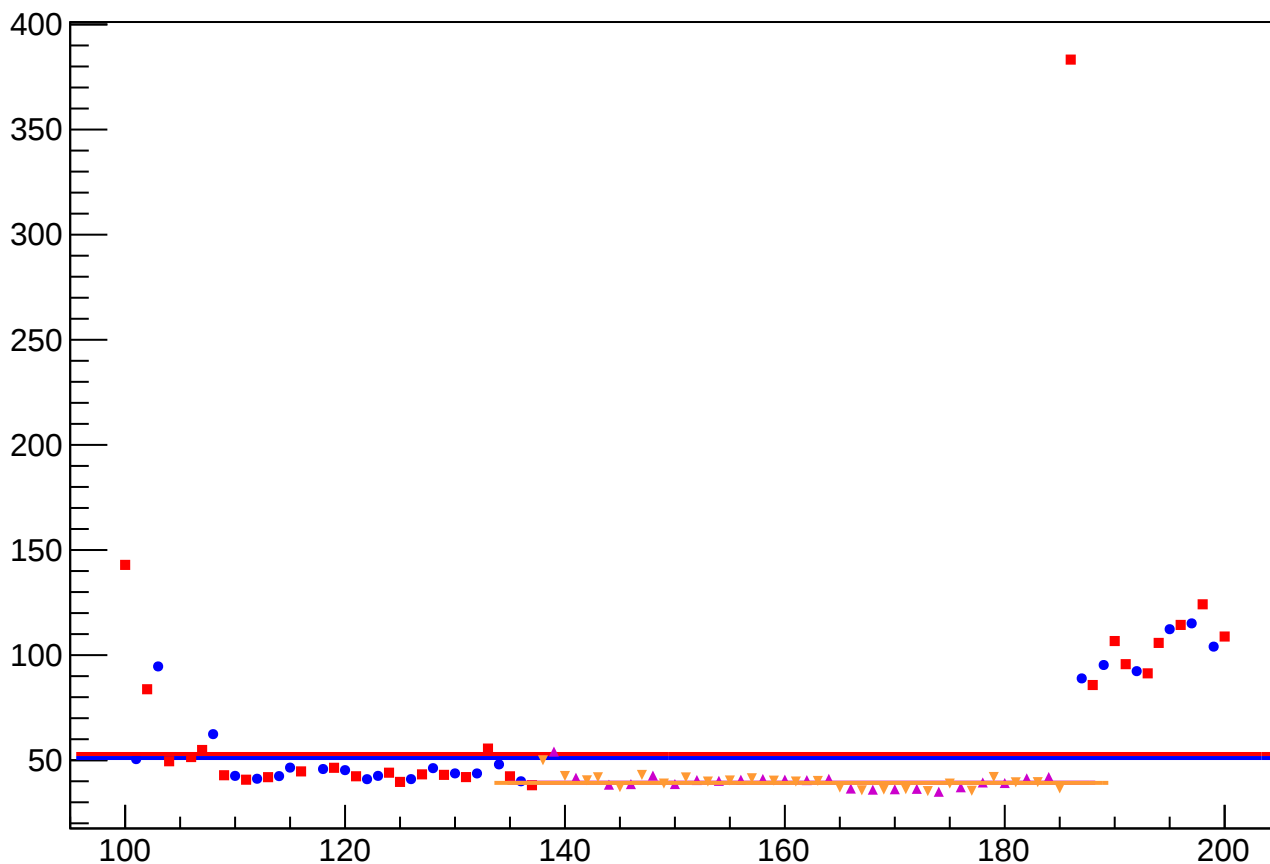
Right: 32.838+/-11.694 χ^2/NDF : 47.6/50

In: -15.409+/-8.247 χ^2/NDF : 45.8/45

Out: -14.529+/-7.980 χ^2/NDF : 98.9/52

All: -14.955+/-5.735 χ^2/NDF : 144.6/98

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 51.053+/-0.012 χ^2/NDF : 2658015.0/22

Left Out: 39.235+/-0.006 χ^2/NDF : 201960.7/24

Right Out: 52.975+/-0.011 χ^2/NDF : 3988212.1/27

Left In: 39.338+/-0.007 χ^2/NDF : 215671.3/22

Left: 39.285+/-0.005 χ^2/NDF : 417755.0/47

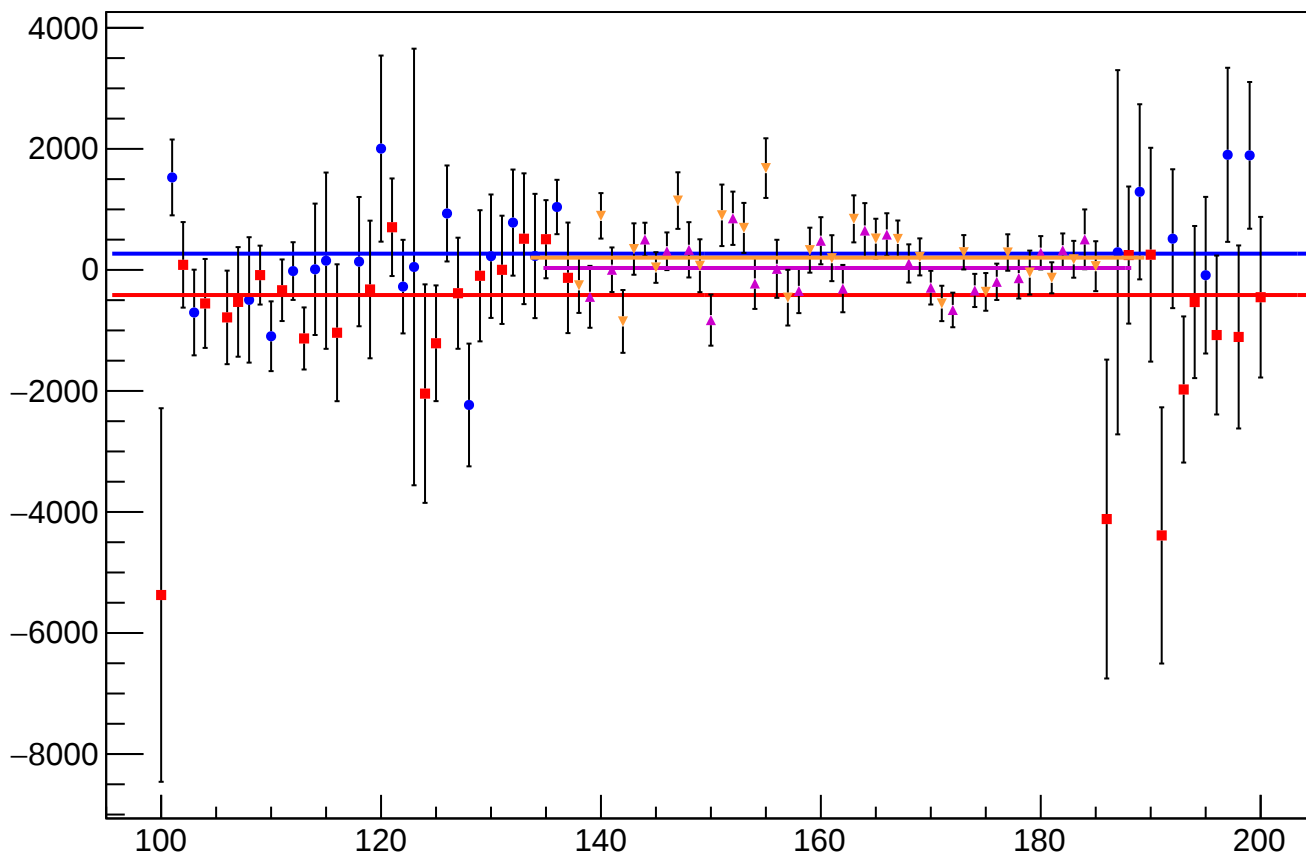
Right: 52.054+/-0.008 χ^2/NDF : 6659717.9/50

In: 42.129+/-0.006 χ^2/NDF : 3605956.4/45

Out: 42.569+/-0.006 χ^2/NDF : 5279790.0/52

All: 42.356+/-0.004 χ^2/NDF : 8888684.0/98

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 268.445 $\pm$ 179.344 χ^2 /NDF: 28.1/22

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -415.132 $\pm$ 168.213 χ^2 /NDF: 20.9/27

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

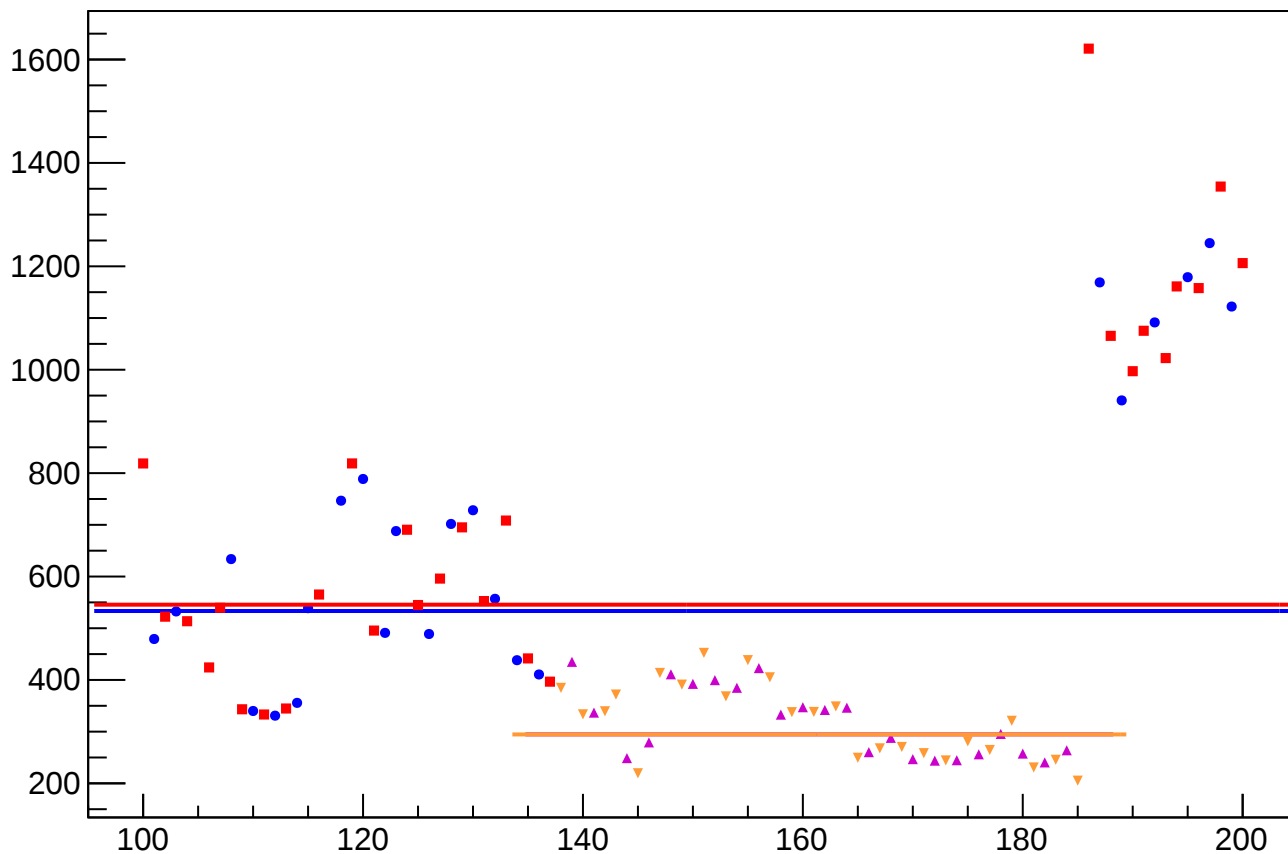
Right: -95.214 $\pm$ 122.691 χ^2 /NDF: 56.7/50

In: 64.509 $\pm$ 66.896 χ^2 /NDF:62.9/45

Out: 110.273 $\pm$ 64.962 χ^2 /NDF:77.1/52

All: 88.062 $\pm$ 46.604 χ^2 /NDF: 140.3/98

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 533.367 $\pm$ 0.127 χ^2 /NDF: 3300151.1/22

Left Out: 294.591 $\pm$ 0.050 χ^2 /NDF:1680474.5/24

Right Out: 545.570 $\pm$ 0.119 χ^2 /NDF: 4707769.4/27

Left In: 294.722 $\pm$ 0.051 χ^2 /NDF:1297310.3/22

Left: 294.655 $\pm$ 0.036 χ^2 /NDF: 2977788.1/47

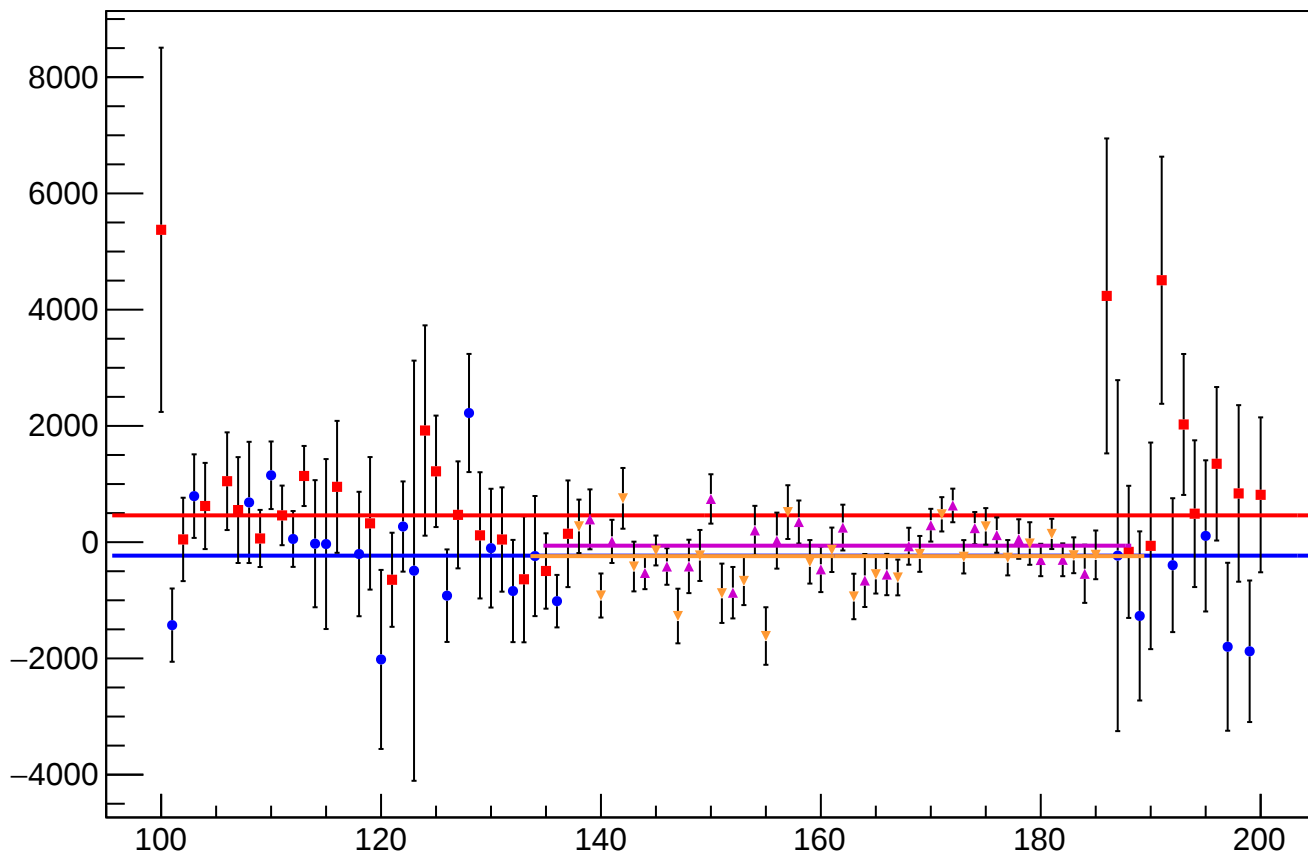
Right: 539.859 $\pm$ 0.087 χ^2 /NDF: 8012846.6/50

In: 327.925 $\pm$ 0.047 χ^2 /NDF:7646031.9/45

Out: 332.023 $\pm$ 0.046 χ^2 /NDF:10176522.0/52

All: 330.034 $\pm$ 0.033 χ^2 /NDF: 17826416.1/98

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -231.764 ± 180.425 $\chi^2/\text{NDF}: 27.9/22$

Left Out: -240.357 ± 71.100 $\chi^2/\text{NDF}: 42.9/24$

Right Out: 461.110 ± 169.866 $\chi^2/\text{NDF}: 20.9/27$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

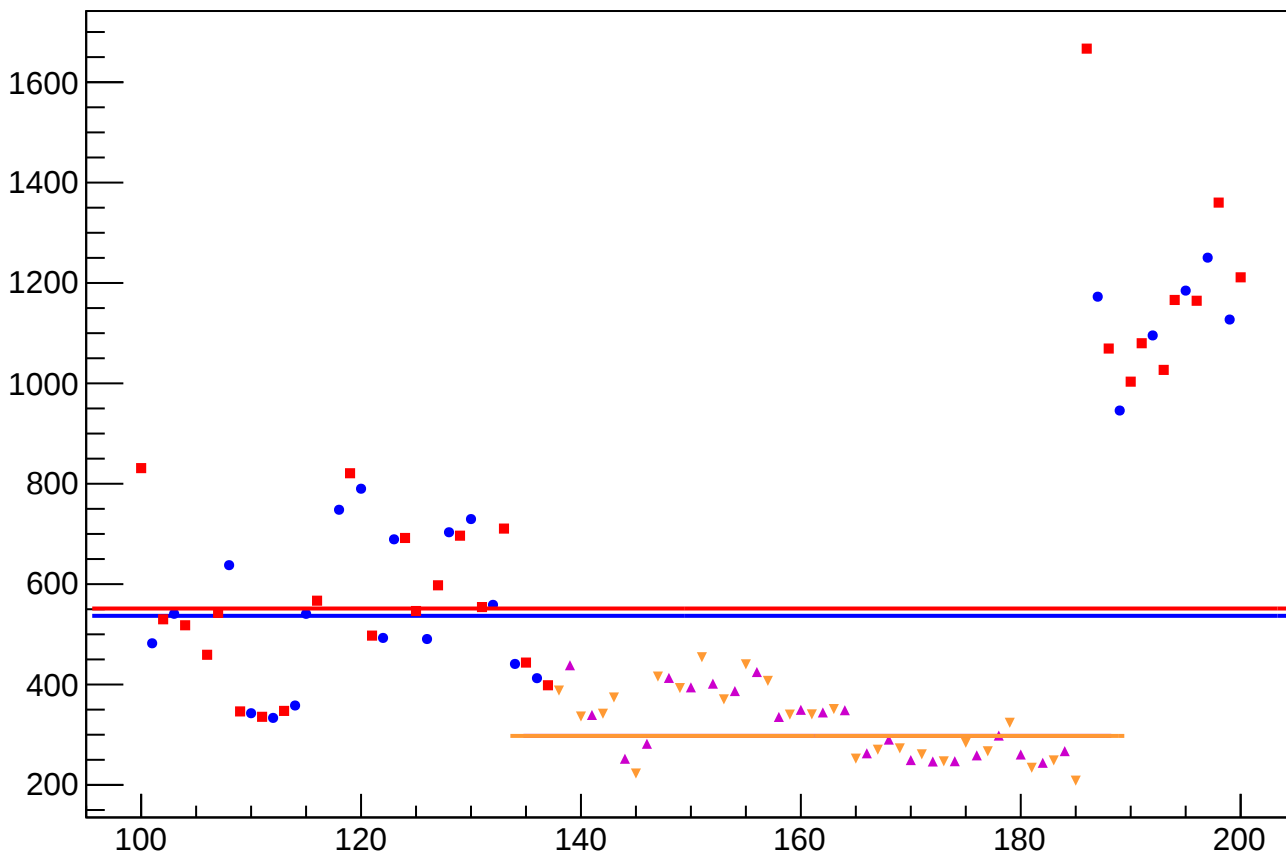
Right: 135.539 ± 123.678 $\chi^2/\text{NDF}: 56.6/50$

In: -84.326 ± 67.502 $\chi^2/\text{NDF}: 59.6/45$

Out: -135.782 ± 65.587 $\chi^2/\text{NDF}: 78.4/52$

All: -110.794 ± 47.039 $\chi^2/\text{NDF}: 138.2/98$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 536.848 $\pm$ 0.128 χ^2 /NDF: 3283445.6/22

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF:1637757.8/24

Right Out: 551.437 $\pm$ 0.120 χ^2 /NDF: 4665427.4/27

Left In: 297.699 $\pm$ 0.051 χ^2 /NDF:1266306.2/22

Left: 297.655 $\pm$ 0.036 χ^2 /NDF: 2904065.4/47

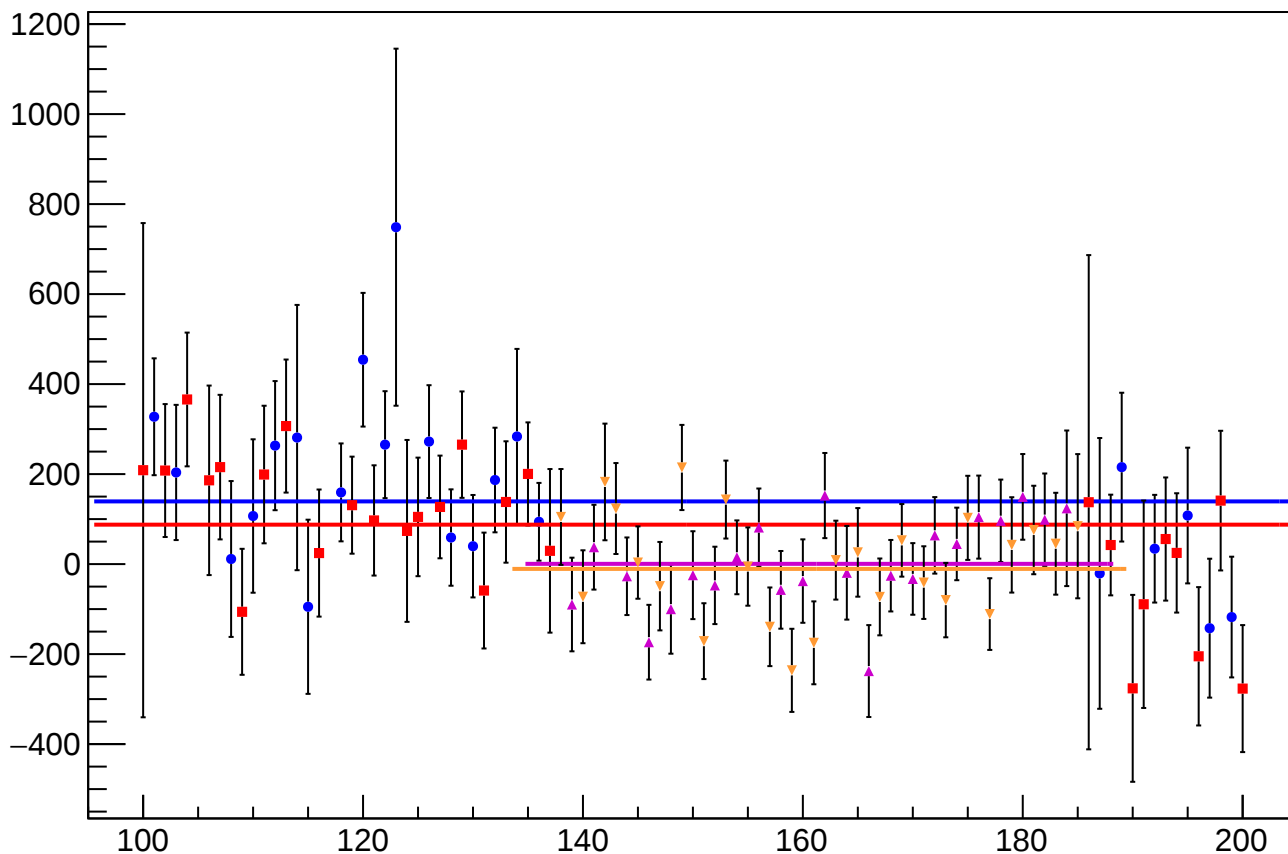
Right: 544.582 $\pm$ 0.087 χ^2 /NDF: 7955805.5/50

In: 331.173 $\pm$ 0.048 χ^2 /NDF:7571702.0/45

Out: 335.453 $\pm$ 0.046 χ^2 /NDF:10103089.5/52

All: 333.375 $\pm$ 0.033 χ^2 /NDF: 17678926.9/98

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 139.316 ± 29.029 χ^2/NDF : 25.1/22

Left Out: -10.667 ± 18.610 χ^2/NDF : 36.3/24

Right Out: 87.641 ± 27.524 χ^2/NDF : 29.5/27

Left In: 0.575 ± 19.091 χ^2/NDF : 23.8/22

Left: -5.190 ± 13.326 χ^2/NDF : 60.3/47

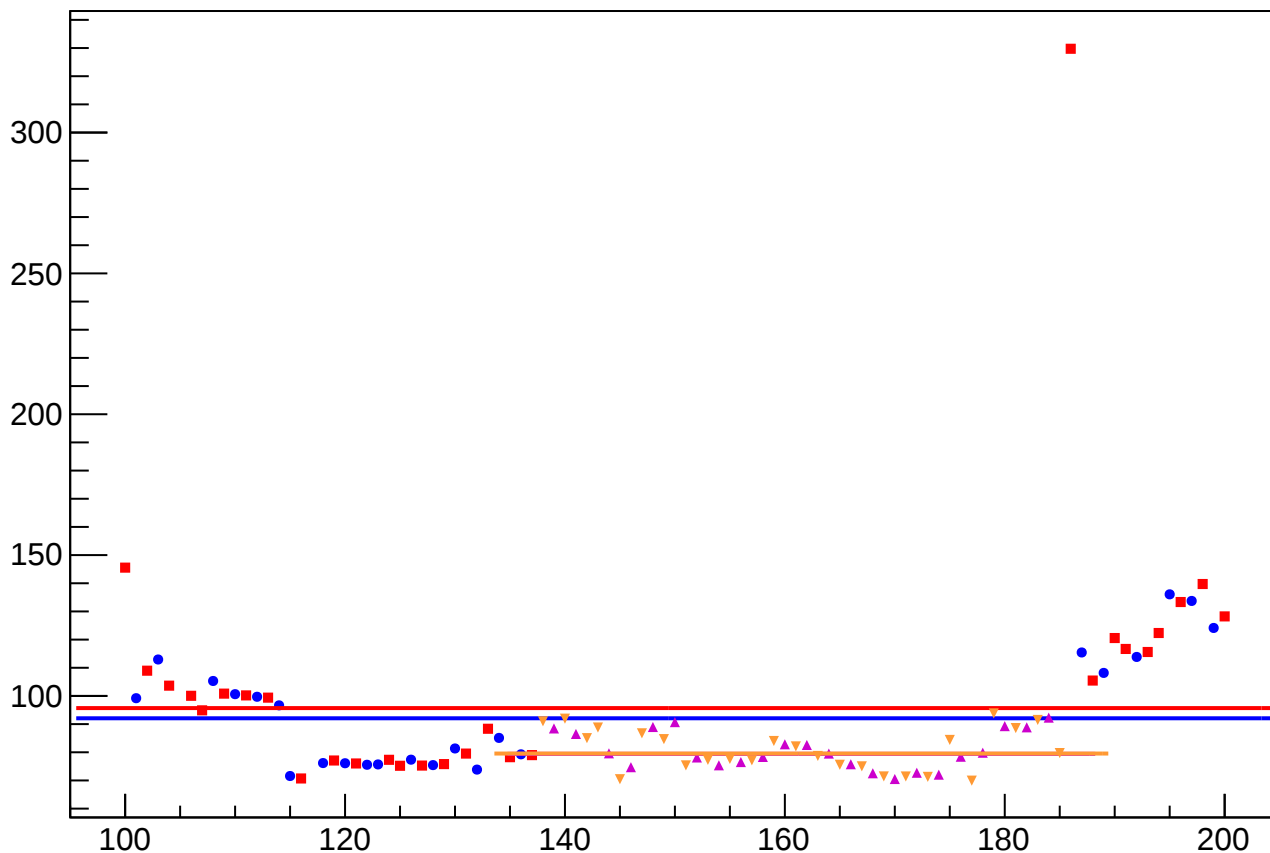
Right: 112.105 ± 19.973 χ^2/NDF : 56.2/50

In: 42.465 ± 15.951 χ^2/NDF : 64.8/45

Out: 20.174 ± 15.417 χ^2/NDF : 74.6/52

All: 30.940 ± 11.085 χ^2/NDF : 140.4/98

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.068 $\pm$ 0.021 χ^2 /NDF: 914253.3/22

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF:309075.2/24

Right Out: 95.686 $\pm$ 0.019 χ^2 /NDF: 1439142.3/27

Left In: 79.436 $\pm$ 0.013 χ^2 /NDF:212440.1/22

Left: 79.495 $\pm$ 0.009 χ^2 /NDF: 521552.2/47

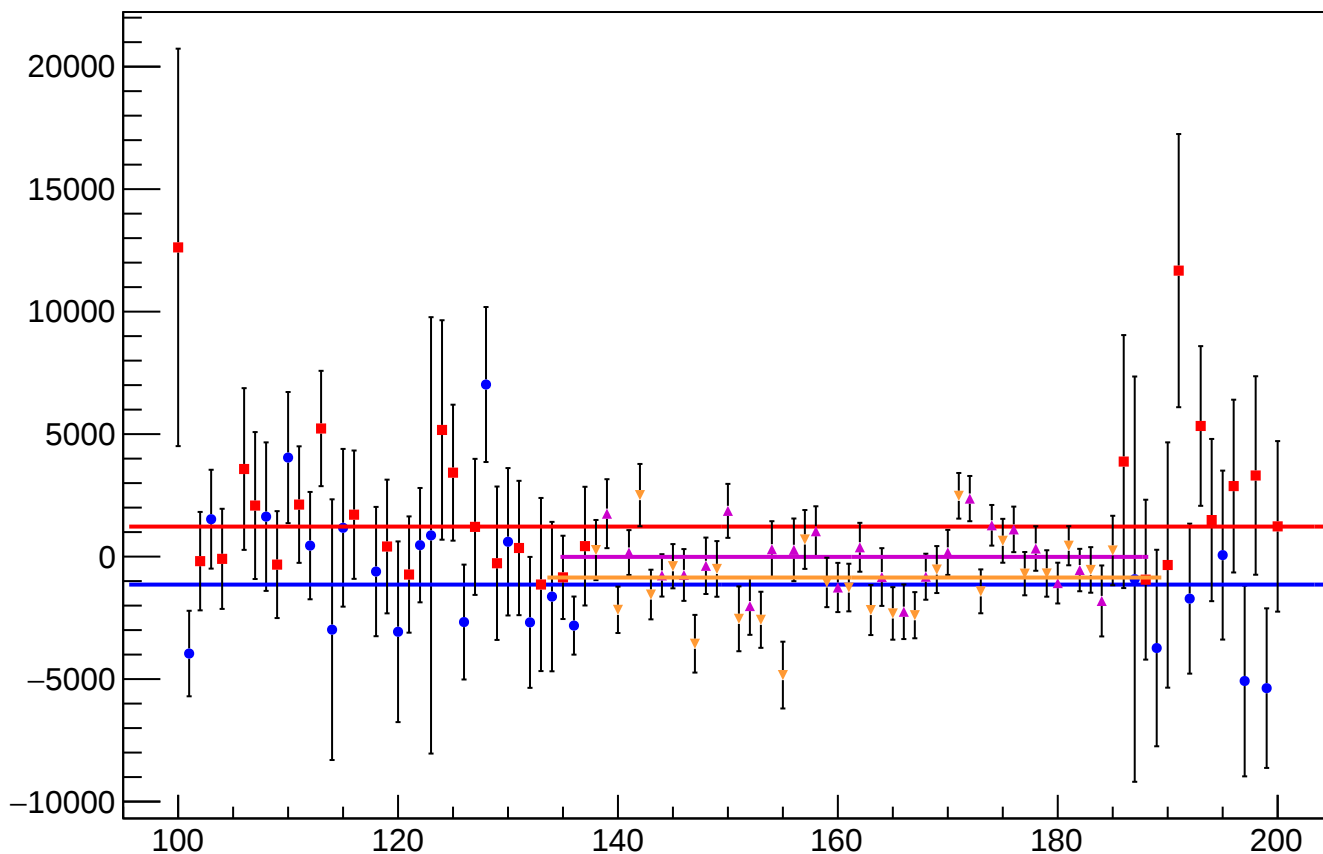
Right: 93.973 $\pm$ 0.014 χ^2 /NDF: 2369757.5/50

In: 83.250 $\pm$ 0.011 χ^2 /NDF:1391043.5/45

Out: 84.613 $\pm$ 0.011 χ^2 /NDF:2219905.6/52

All: 83.955 $\pm$ 0.008 χ^2 /NDF: 3618496.8/98

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1142.728 $\pm$ 545.965 χ^2 /NDF: 24.0/22

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF:56.0/24

Right Out: 1225.253 $\pm$ 535.776 χ^2 /NDF: 18.0/27

Left In: -11.687 $\pm$ 210.073 χ^2 /NDF:31.2/22

Left: -445.076 $\pm$ 146.383 χ^2 /NDF: 95.5/47

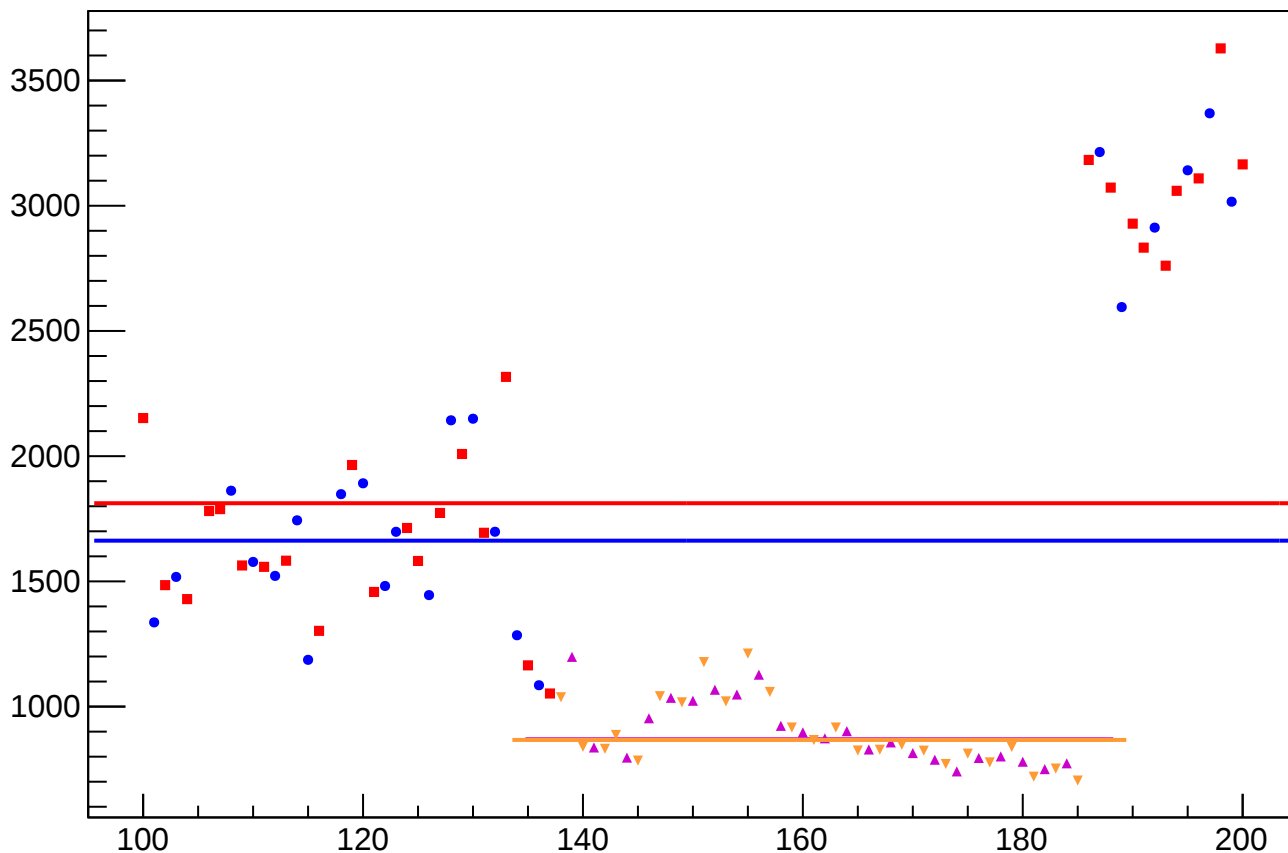
Right: 63.565 $\pm$ 382.402 χ^2 /NDF: 51.6/50

In: -157.545 $\pm$ 196.060 χ^2 /NDF:59.0/45

Out: -590.638 $\pm$ 190.721 χ^2 /NDF:87.1/52

All: -380.068 $\pm$ 136.709 χ^2 /NDF: 148.6/98

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1662.601 $\pm$ 0.386 χ^2 /NDF: 2403761.8/22

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1812.103 $\pm$ 0.379 χ^2 /NDF: 2909395.8/27

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

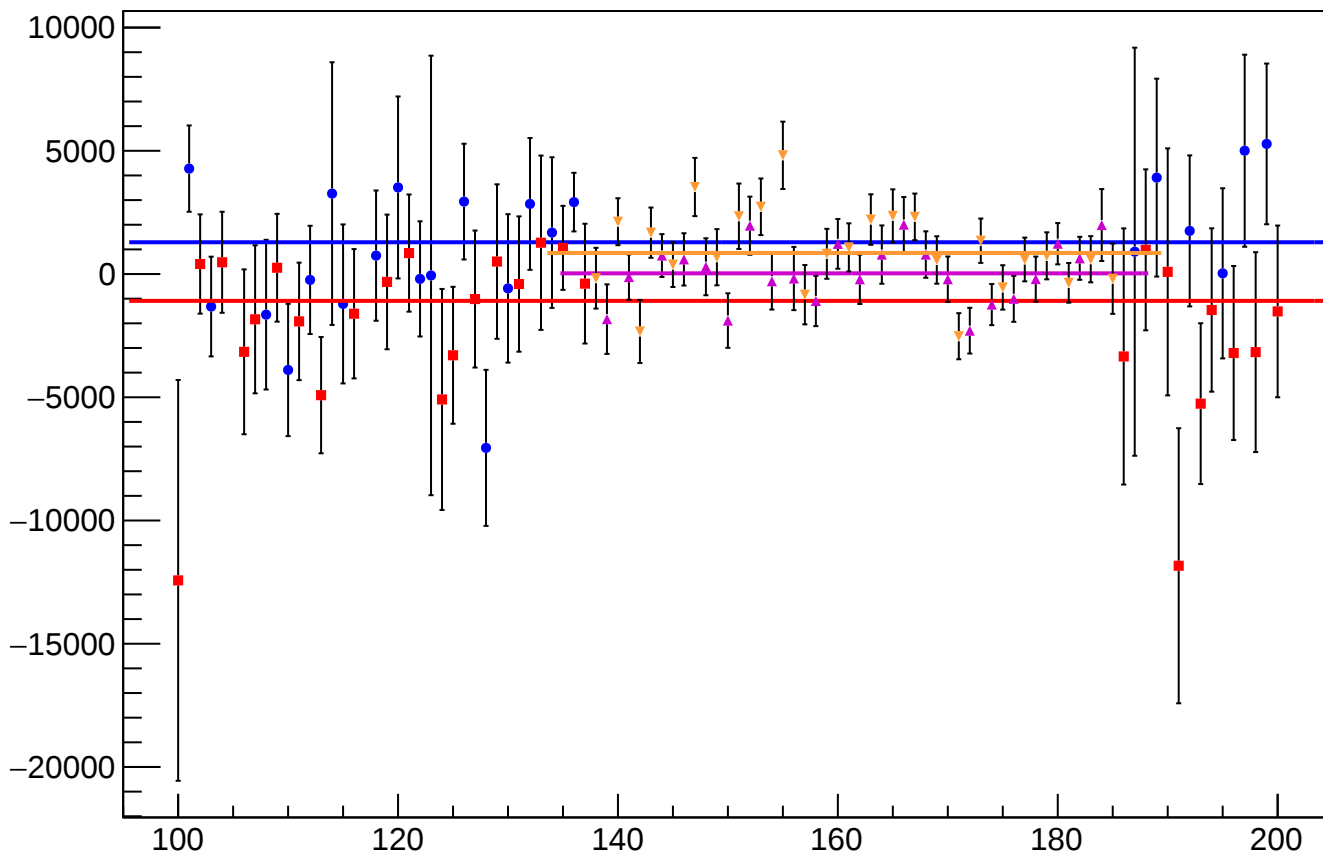
Right: 1738.760 $\pm$ 0.270 χ^2 /NDF: 5389552.6/50

In: 971.837 $\pm$ 0.139 χ^2 /NDF: 6661607.1/45

Out: 986.667 $\pm$ 0.135 χ^2 /NDF: 9007057.1/52

All: 979.457 $\pm$ 0.097 χ^2 /NDF: 15674543.3/98

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1289.624 $\pm$ 547.013 χ^2 /NDF: 24.3/22

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF:54.1/24

Right Out: -1088.562 $\pm$ 536.878 χ^2 /NDF: 17.9/27

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

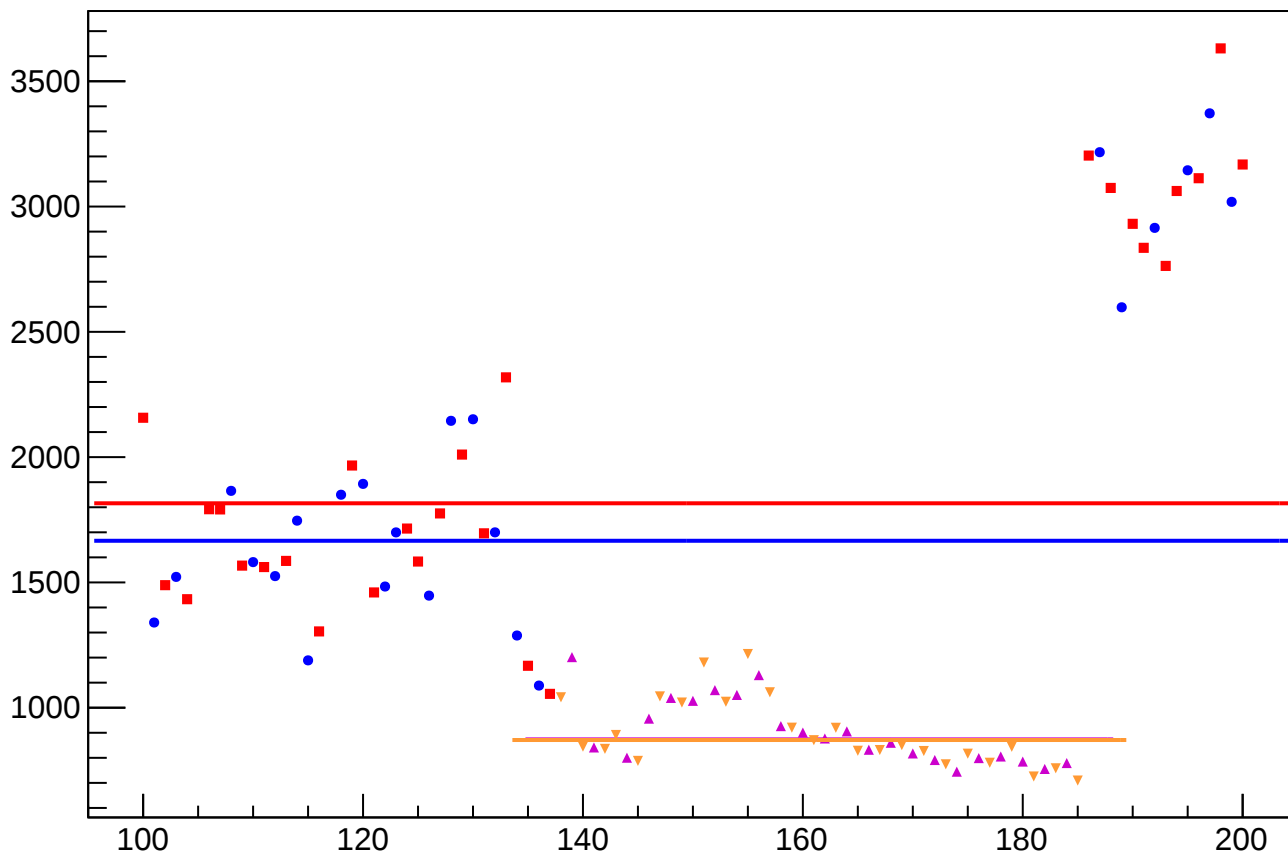
Right: 78.296 $\pm$ 383.163 χ^2 /NDF: 51.9/50

In: 191.929 $\pm$ 196.890 χ^2 /NDF:58.7/45

Out: 608.169 $\pm$ 191.552 χ^2 /NDF:83.4/52

All: 405.768 $\pm$ 137.296 χ^2 /NDF: 144.5/98

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1666.209 $\pm$ 0.387 χ^2 /NDF: 2395191.3/22

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1815.792 $\pm$ 0.380 χ^2 /NDF: 2902794.4/27

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

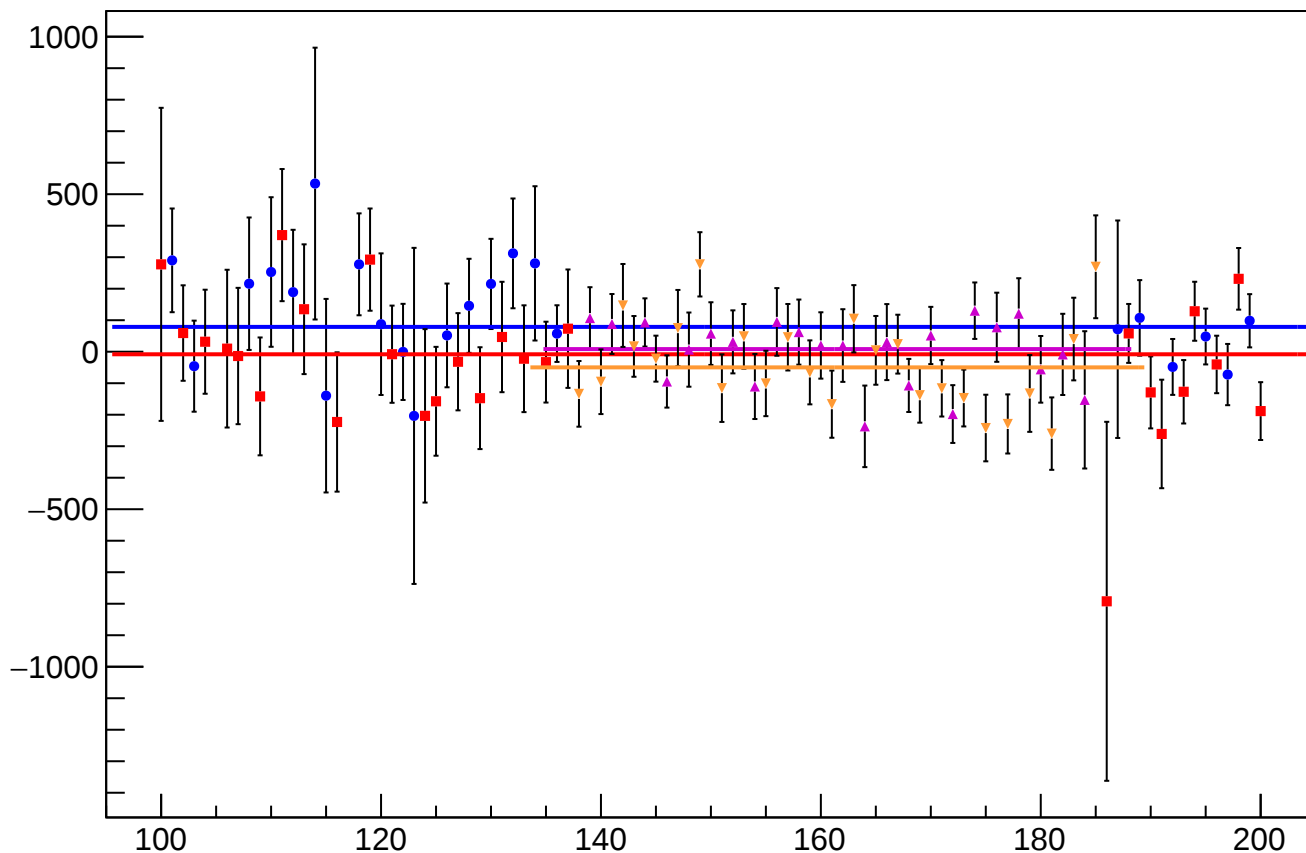
Right: 1742.399 $\pm$ 0.271 χ^2 /NDF: 5374161.2/50

In: 976.351 $\pm$ 0.139 χ^2 /NDF: 6623375.4/45

Out: 991.365 $\pm$ 0.135 χ^2 /NDF: 8958560.7/52

All: 984.064 $\pm$ 0.097 χ^2 /NDF: 15587911.0/98

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 78.790 ± 29.445 χ^2/NDF : 15.7/22

Left Out: -49.717 ± 20.580 χ^2/NDF : 39.4/24

Right Out: -8.155 ± 27.075 χ^2/NDF : 30.7/27

Left In: 8.343 ± 21.271 χ^2/NDF : 22.0/22

Left: -21.646 ± 14.791 χ^2/NDF : 65.3/47

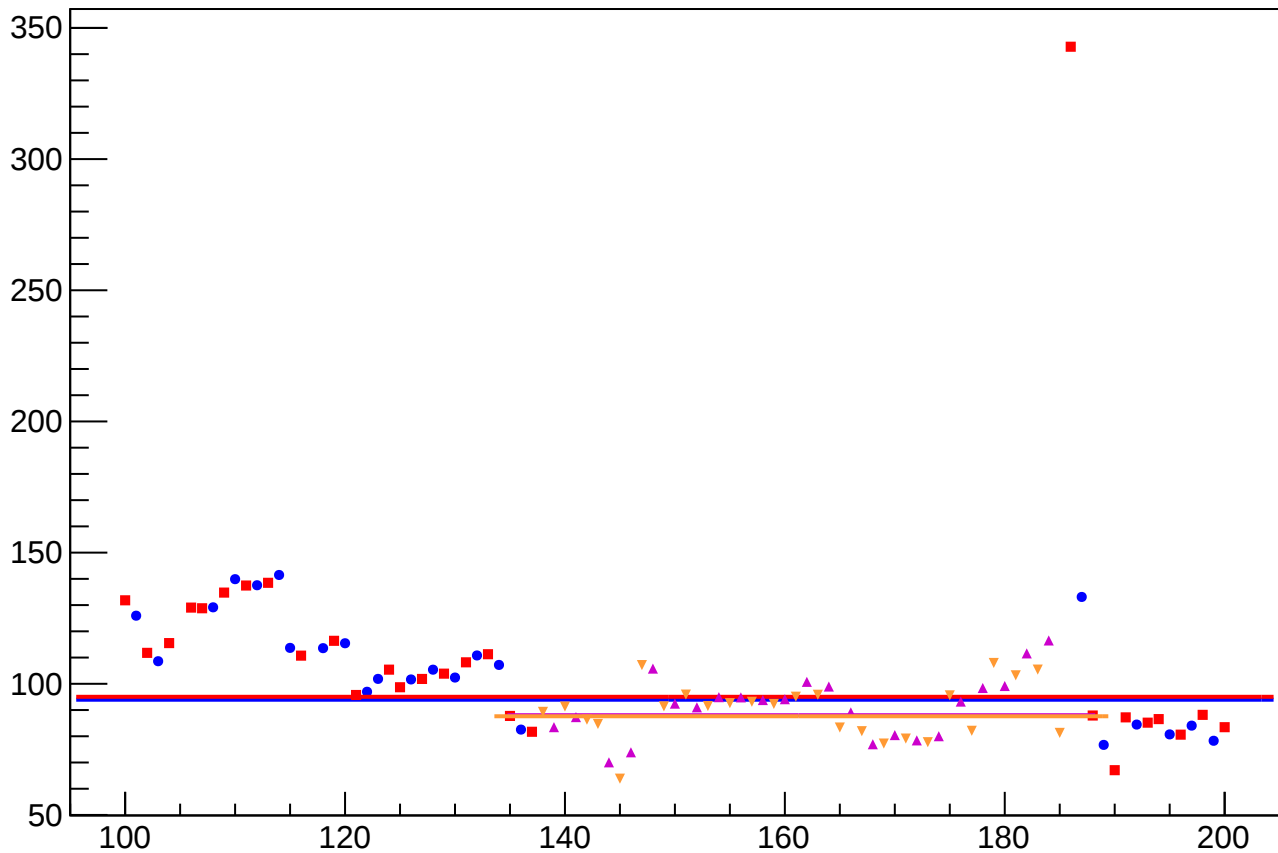
Right: 31.679 ± 19.931 χ^2/NDF : 51.2/50

In: 32.500 ± 17.243 χ^2/NDF : 41.5/45

Out: -34.497 ± 16.384 χ^2/NDF : 71.6/52

All: -2.708 ± 11.877 χ^2/NDF : 121.0/98

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 93.930 $\pm$ 0.021 χ^2 /NDF: 709760.8/22

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 95.045 $\pm$ 0.019 χ^2 /NDF: 1158349.5/27

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

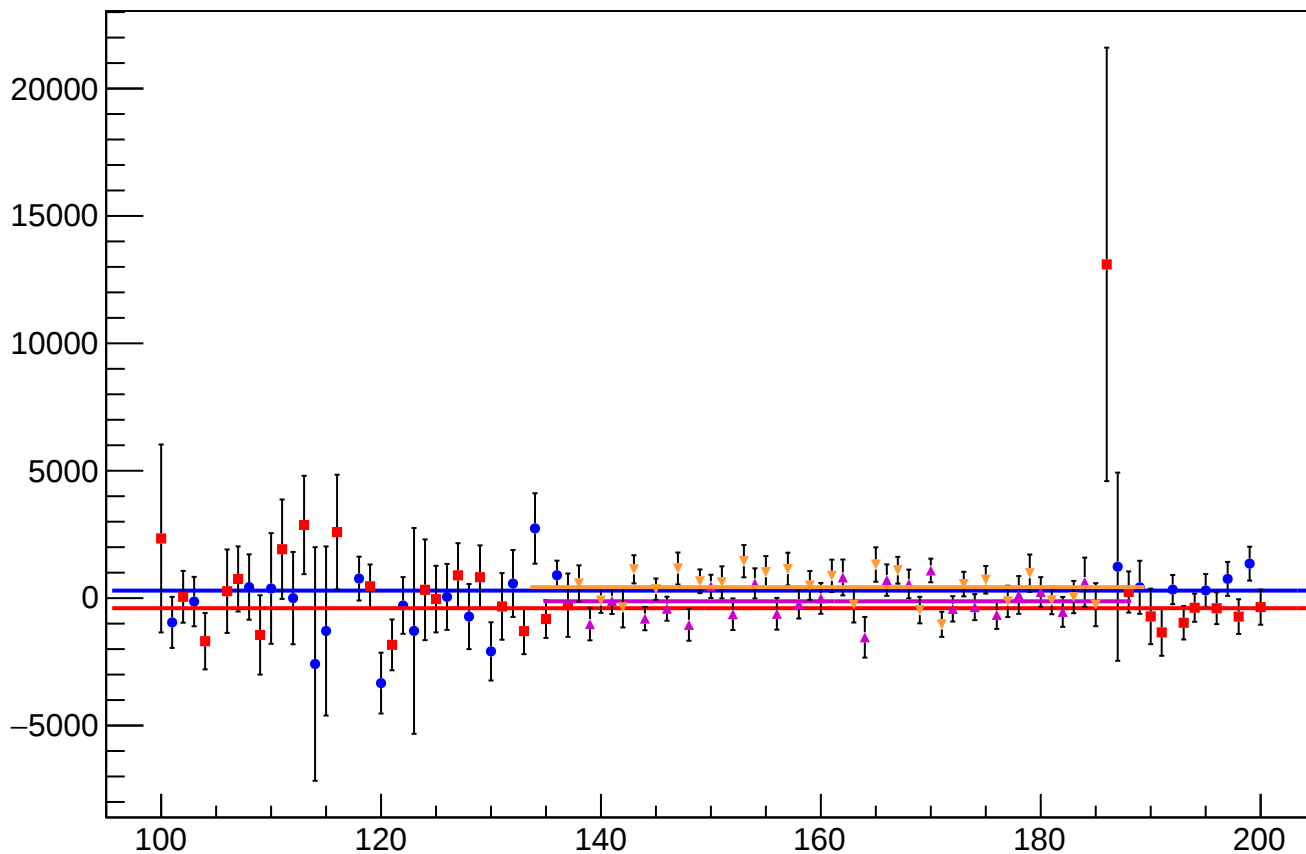
Right: 94.534 $\pm$ 0.014 χ^2 /NDF: 1869664.6/50

In: 90.055 $\pm$ 0.012 χ^2 /NDF: 1286195.8/45

Out: 90.342 $\pm$ 0.012 χ^2 /NDF: 1808234.4/52

All: 90.206 $\pm$ 0.008 χ^2 /NDF: 3094723.2/98

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 295.329 $\pm$ 206.992 χ^2 /NDF: 24.8/22

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -394.878 $\pm$ 186.474 χ^2 /NDF: 21.5/27

Left In: -123.017 $\pm$ 118.849 χ^2 /NDF:29.3/22

Left: 161.753 $\pm$ 82.905 χ^2 /NDF: 70.9/47

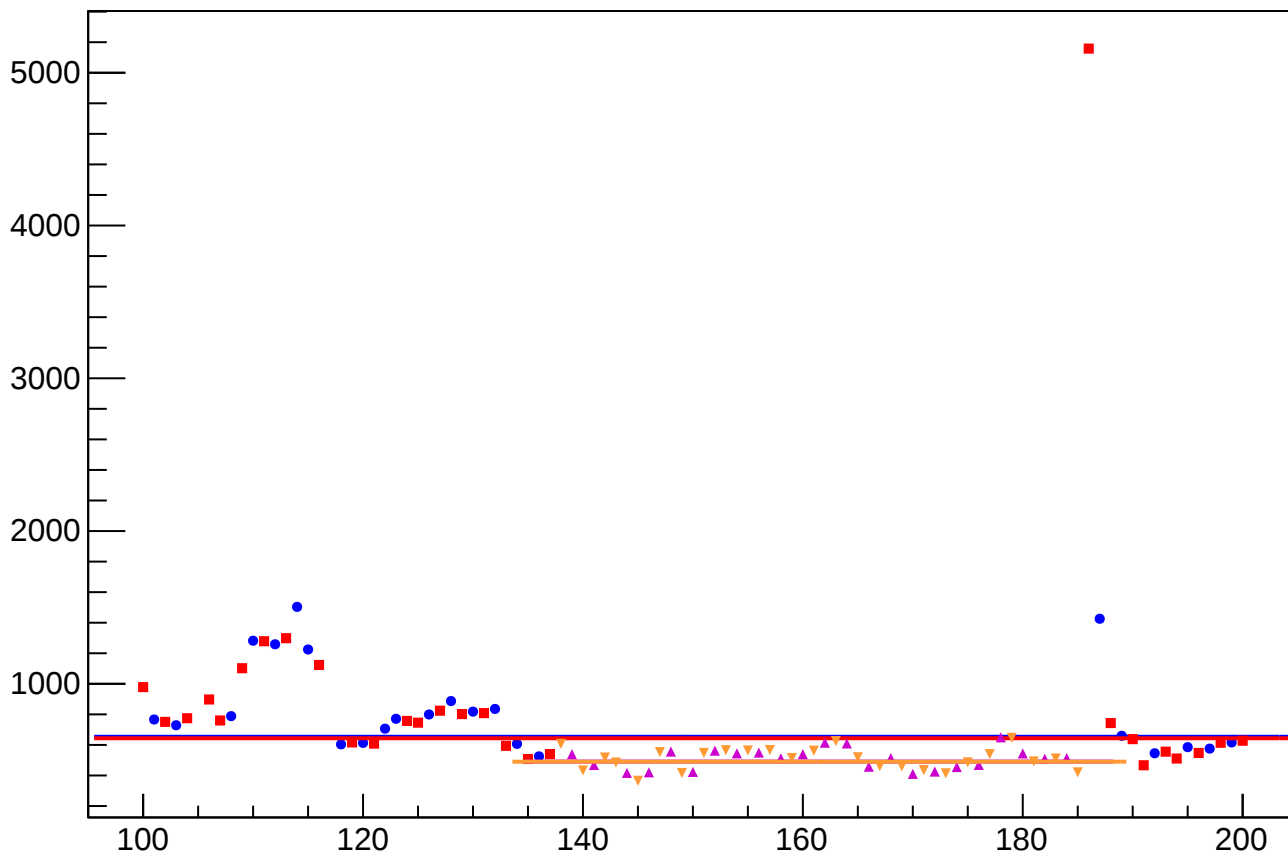
Right: -85.668 $\pm$ 138.545 χ^2 /NDF: 52.4/50

In: -19.293 $\pm$ 103.068 χ^2 /NDF:57.1/45

Out: 201.895 $\pm$ 98.317 χ^2 /NDF:66.1/52

All: 96.516 $\pm$ 71.141 χ^2 /NDF: 125.6/98

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 653.325+/-0.146 χ^2/NDF : 1083415.7/22

Left Out: 490.267+/-0.082 χ^2/NDF : 750277.0/24

Right Out: 643.611+/-0.132 χ^2/NDF : 1924640.7/27

Left In: 490.910+/-0.084 χ^2/NDF : 589235.5/22

Left: 490.580+/-0.059 χ^2/NDF : 1339542.5/47

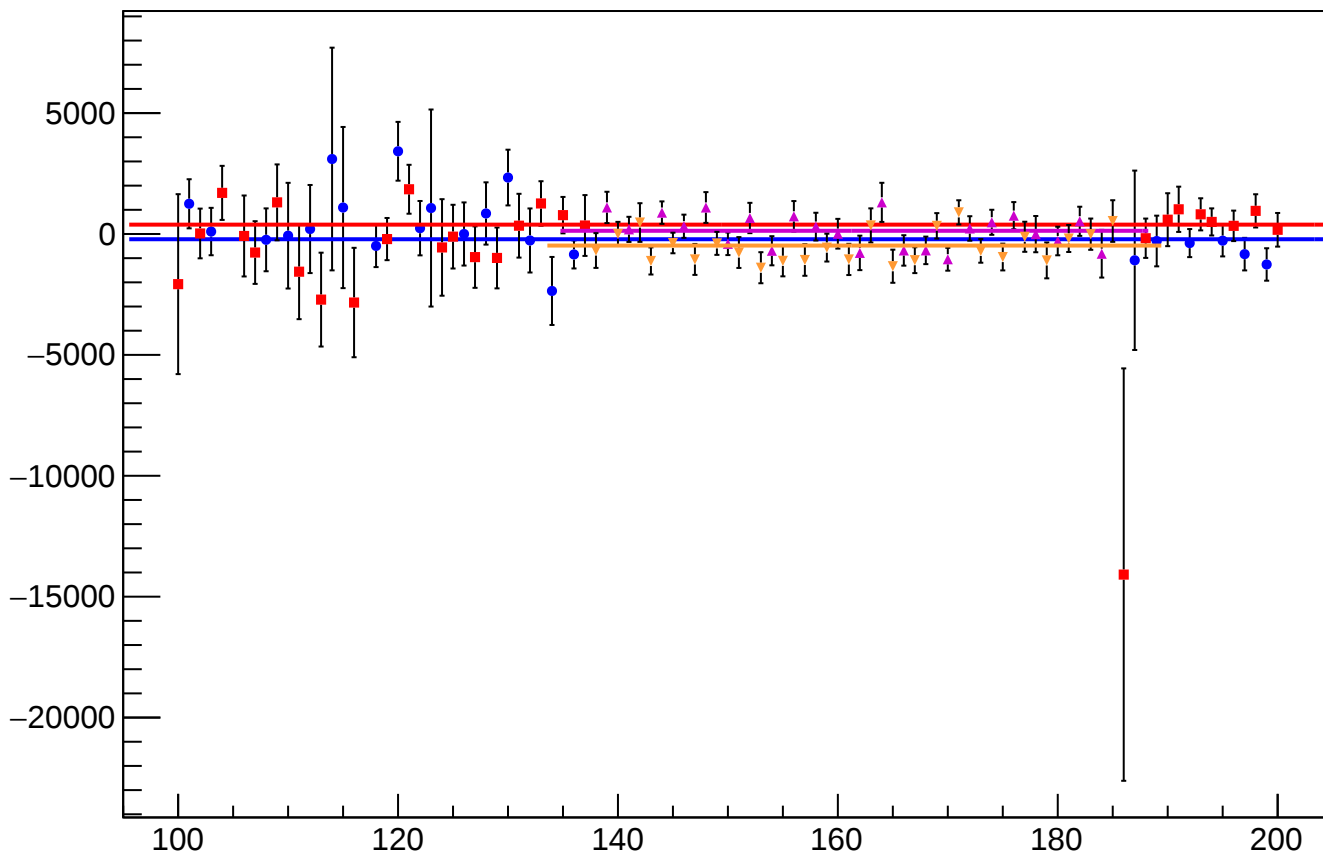
Right: 647.963+/-0.098 χ^2/NDF : 3010487.5/50

In: 531.178+/-0.073 χ^2/NDF : 2598693.2/45

Out: 532.894+/-0.070 χ^2/NDF : 3651424.5/52

All: 532.077+/-0.050 χ^2/NDF : 6250407.9/98

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -217.069+/-209.322 χ^2/NDF : 24.8/22

Left Out: -478.197+/-117.659 χ^2/NDF : 27.8/24

Right Out: 386.919+/-188.742 χ^2/NDF : 20.2/27

Left In: 132.543+/-120.866 χ^2/NDF : 29.5/22

Left: -181.037+/-84.308 χ^2/NDF : 70.5/47

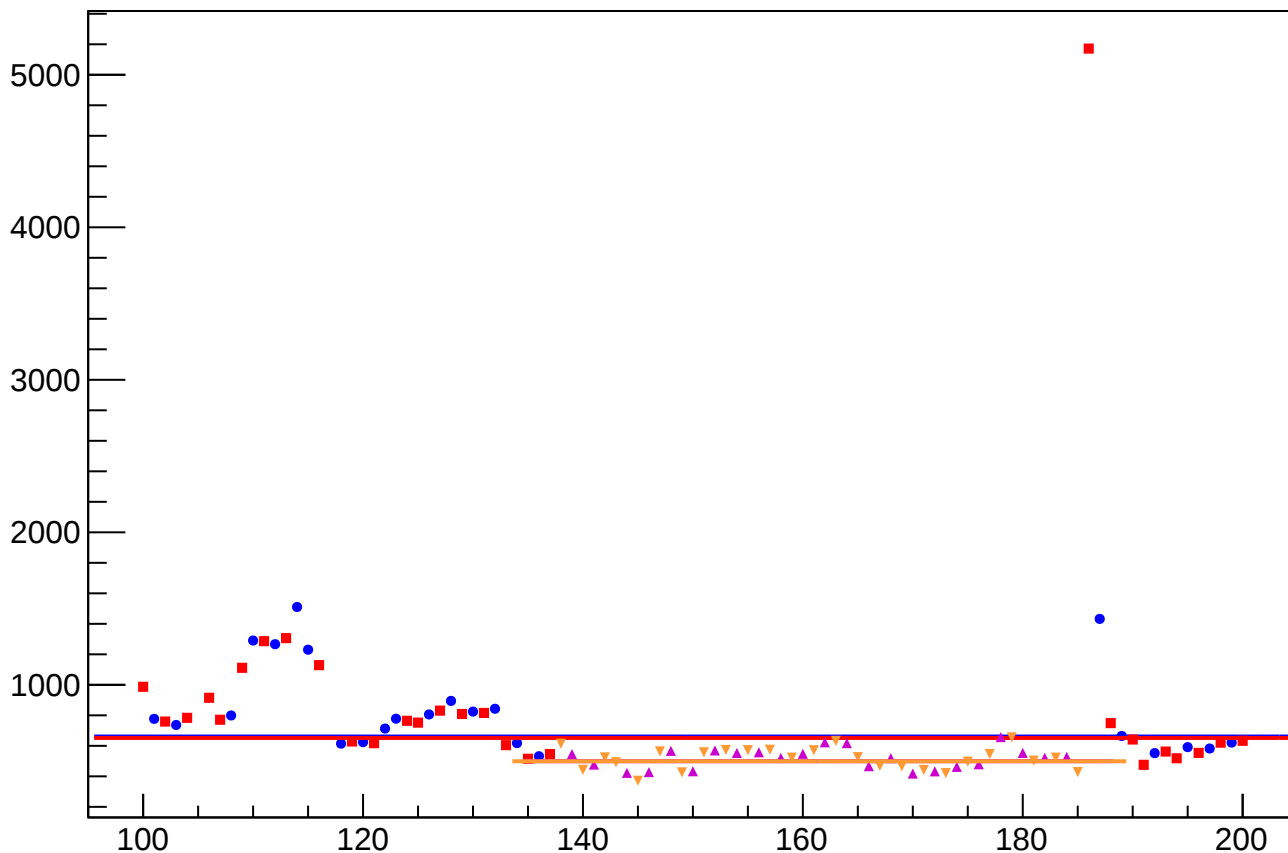
Right: 116.068+/-140.173 χ^2/NDF : 49.6/50

In: 45.125+/-104.670 χ^2/NDF : 56.4/45

Out: -236.089+/-99.847 χ^2/NDF : 63.2/52

All: -102.110+/-72.247 χ^2/NDF : 123.3/98

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 660.940 $\pm$ 0.148 χ^2 /NDF: 1071043.6/22

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 651.781 $\pm$ 0.133 χ^2 /NDF: 1902255.9/27

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

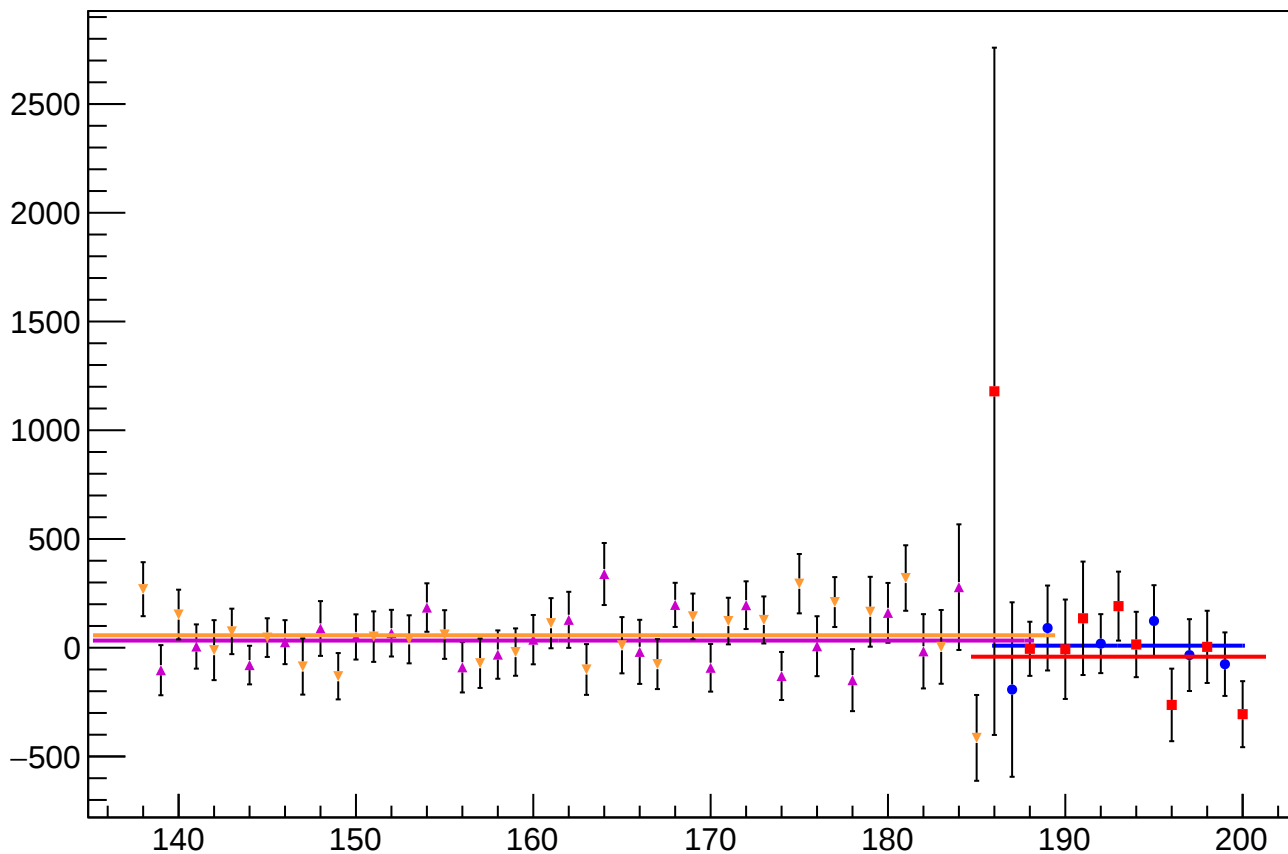
Right: 655.889 $\pm$ 0.099 χ^2 /NDF: 2975411.4/50

In: 539.787 $\pm$ 0.074 χ^2 /NDF: 2540962.5/45

Out: 541.580 $\pm$ 0.071 χ^2 /NDF: 3583341.7/52

All: 540.726 $\pm$ 0.051 χ^2 /NDF: 6124611.5/98

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 9.497 ± 69.451 χ^2/NDF : 1.3/5

Left Out: 57.211 ± 23.714 χ^2/NDF : 29.2/24

Right Out: -41.241 ± 57.884 χ^2/NDF : 8.3/8

Left In: 32.948 ± 24.587 χ^2/NDF : 23.6/22

Left: 45.518 ± 17.069 χ^2/NDF : 53.3/47

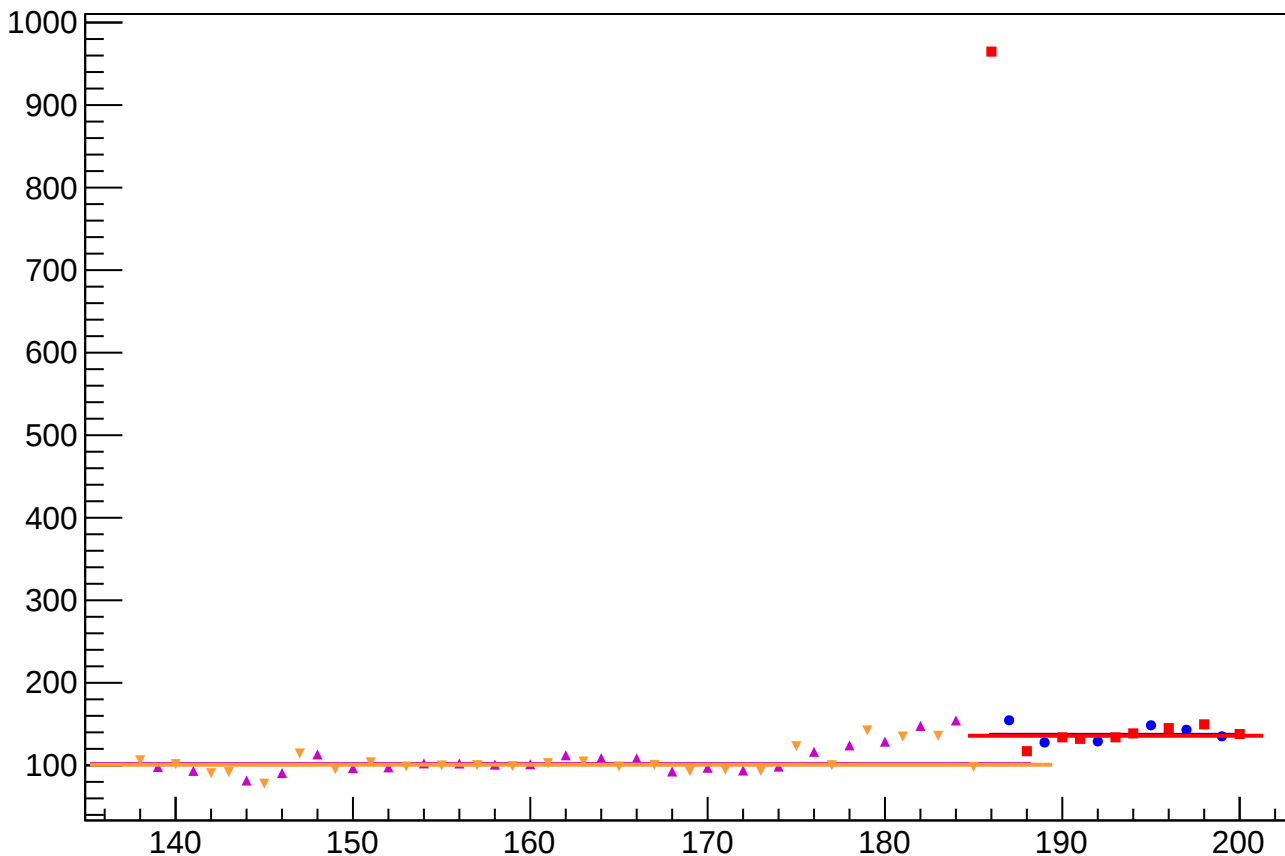
Right: -20.443 ± 44.465 χ^2/NDF : 10.0/14

In: 30.336 ± 23.178 χ^2/NDF : 25.0/28

Out: 43.062 ± 21.944 χ^2/NDF : 40.0/33

All: 37.047 ± 15.935 χ^2/NDF : 65.2/62

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 136.991 $\pm$ 0.049 χ^2 /NDF: 28341.8/5

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 135.897 $\pm$ 0.041 χ^2 /NDF: 617376.0/8

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

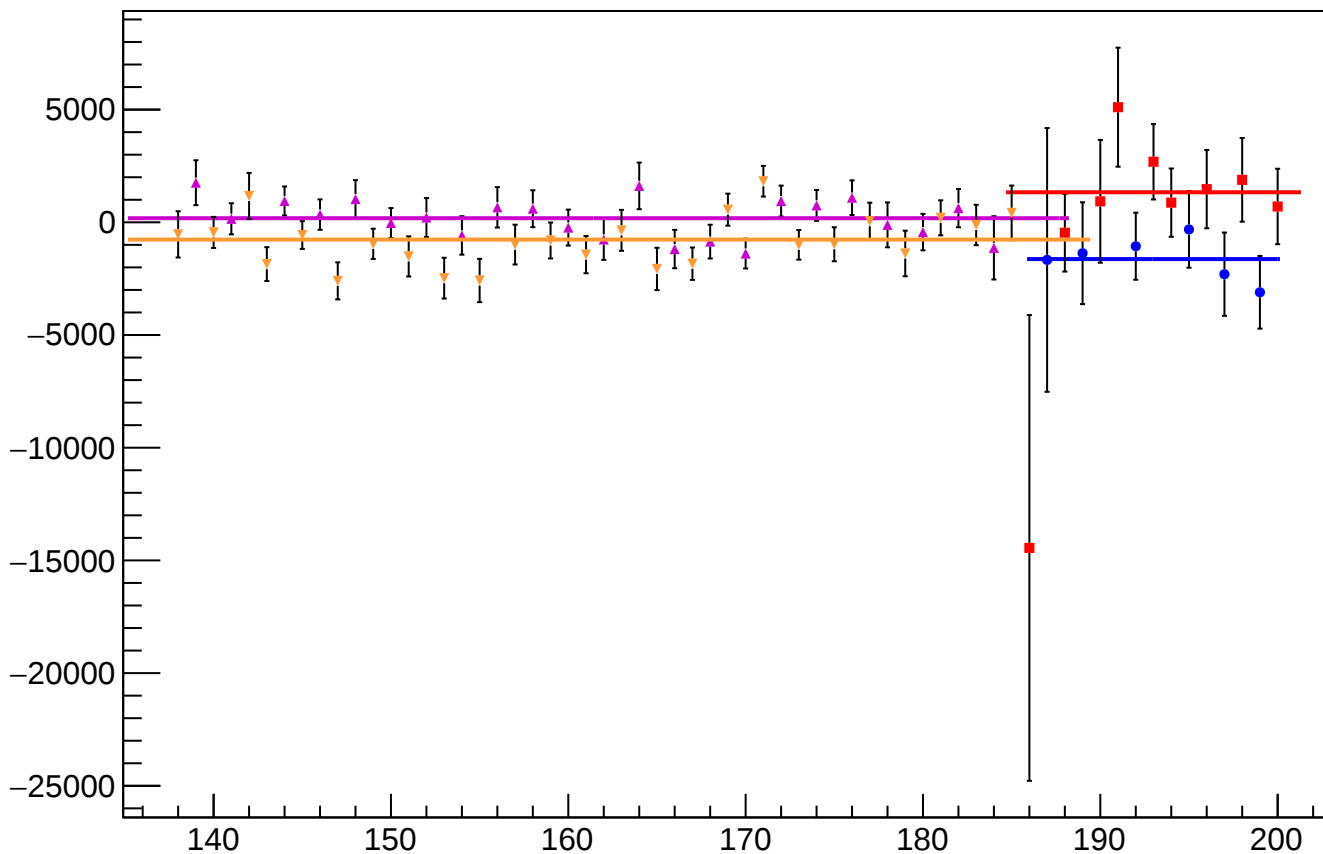
Right: 136.345 $\pm$ 0.031 χ^2 /NDF: 646010.5/14

In: 105.561 $\pm$ 0.016 χ^2 /NDF: 1071602.9/28

Out: 105.844 $\pm$ 0.016 χ^2 /NDF: 1847466.3/33

All: 105.710 $\pm$ 0.011 χ^2 /NDF: 2919227.0/62

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1630.751 $\pm$ 766.703 χ^2 /NDF: 1.7/5

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: 1332.520 $\pm$ 645.976 χ^2 /NDF: 6.5/8

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

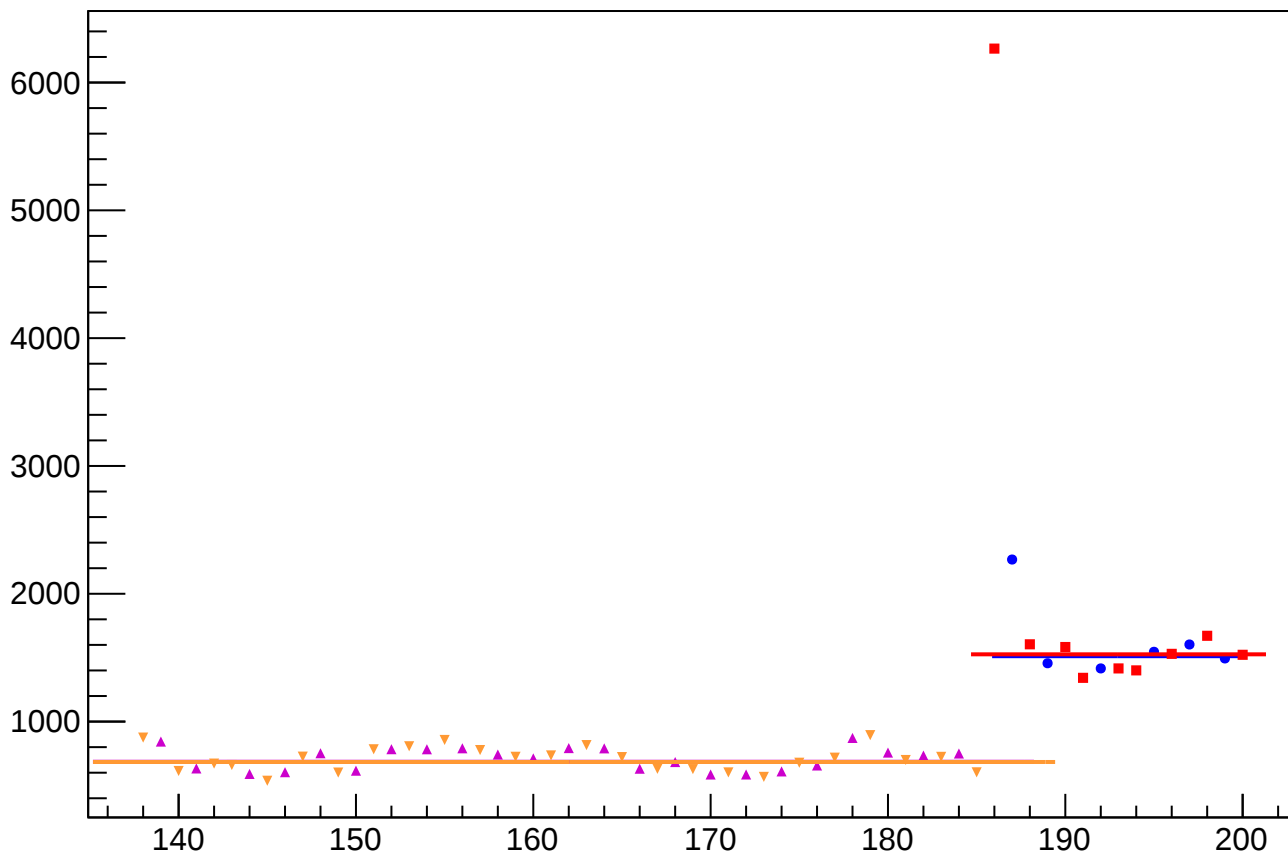
Right: 102.288 $\pm$ 494.009 χ^2 /NDF: 16.9/14

In: 100.738 $\pm$ 161.933 χ^2 /NDF:32.1/28

Out: -643.509 $\pm$ 156.282 χ^2 /NDF:62.9/33

All: -284.600 $\pm$ 112.453 χ^2 /NDF: 106.0/62

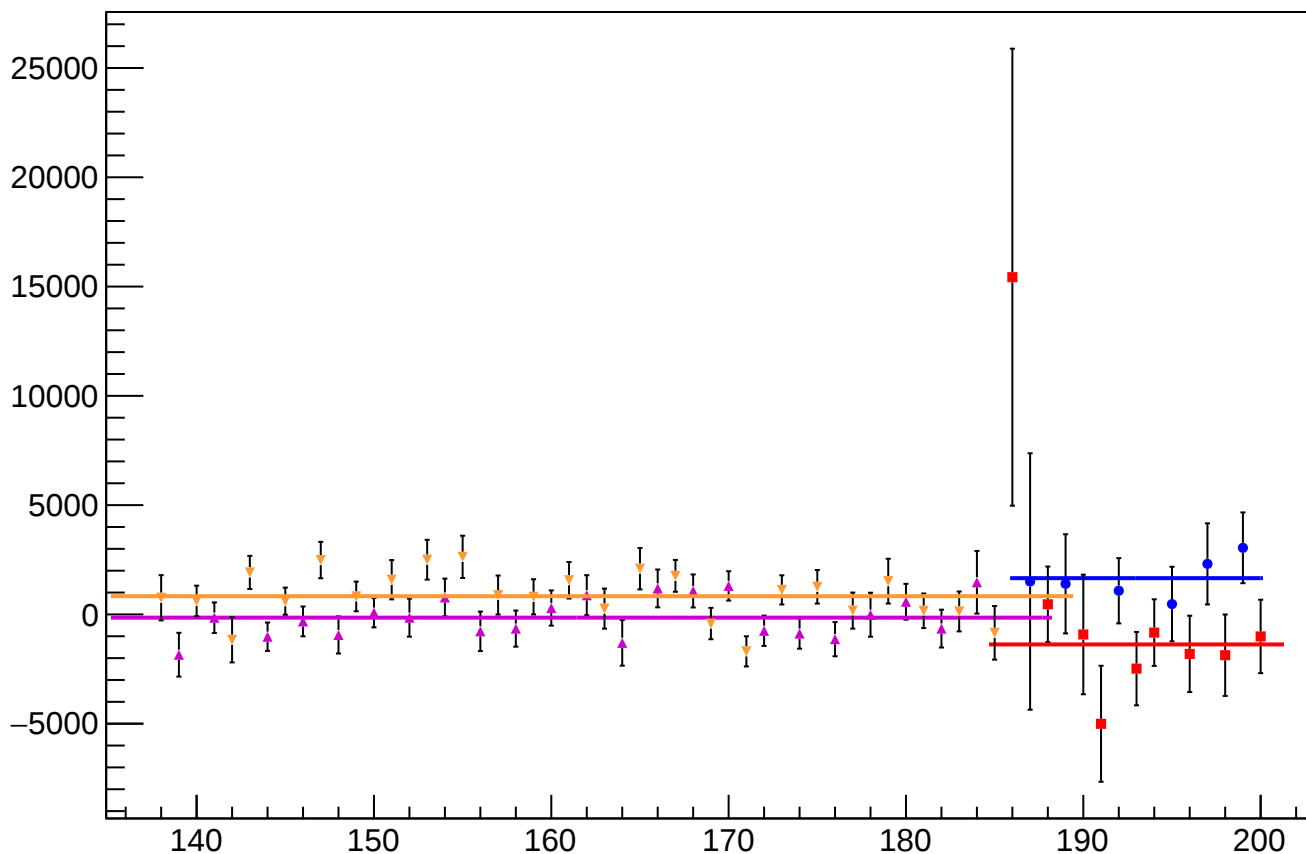
asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1511.611+/-0.542 χ^2/NDF : 48827.3/5
 Left Out: 683.884+/-0.114 χ^2/NDF : 667158.2/24
 Right Out: 1526.219+/-0.457 χ^2/NDF : 470251.8/8
 Left In: 685.593+/-0.117 χ^2/NDF : 529353.6/22

Left: 684.715+/-0.082 χ^2/NDF : 1196621.1/47
 Right: 1520.154+/-0.349 χ^2/NDF : 519503.7/14
 In: 722.440+/-0.115 χ^2/NDF : 2796049.6/28
 Out: 733.187+/-0.111 χ^2/NDF : 4339054.4/33
 All: 728.004+/-0.080 χ^2/NDF : 7139664.4/62

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1658.022 ± 769.982 $\chi^2/\text{NDF}: 1.5/5$

Left Out: 833.395 ± 162.965 $\chi^2/\text{NDF}: 43.2/24$

Right Out: -1373.685 ± 648.830 $\chi^2/\text{NDF}: 6.4/8$

Left In: -148.814 ± 167.644 $\chi^2/\text{NDF}: 26.0/22$

Left: 356.189 ± 116.853 $\chi^2/\text{NDF}: 86.9/47$

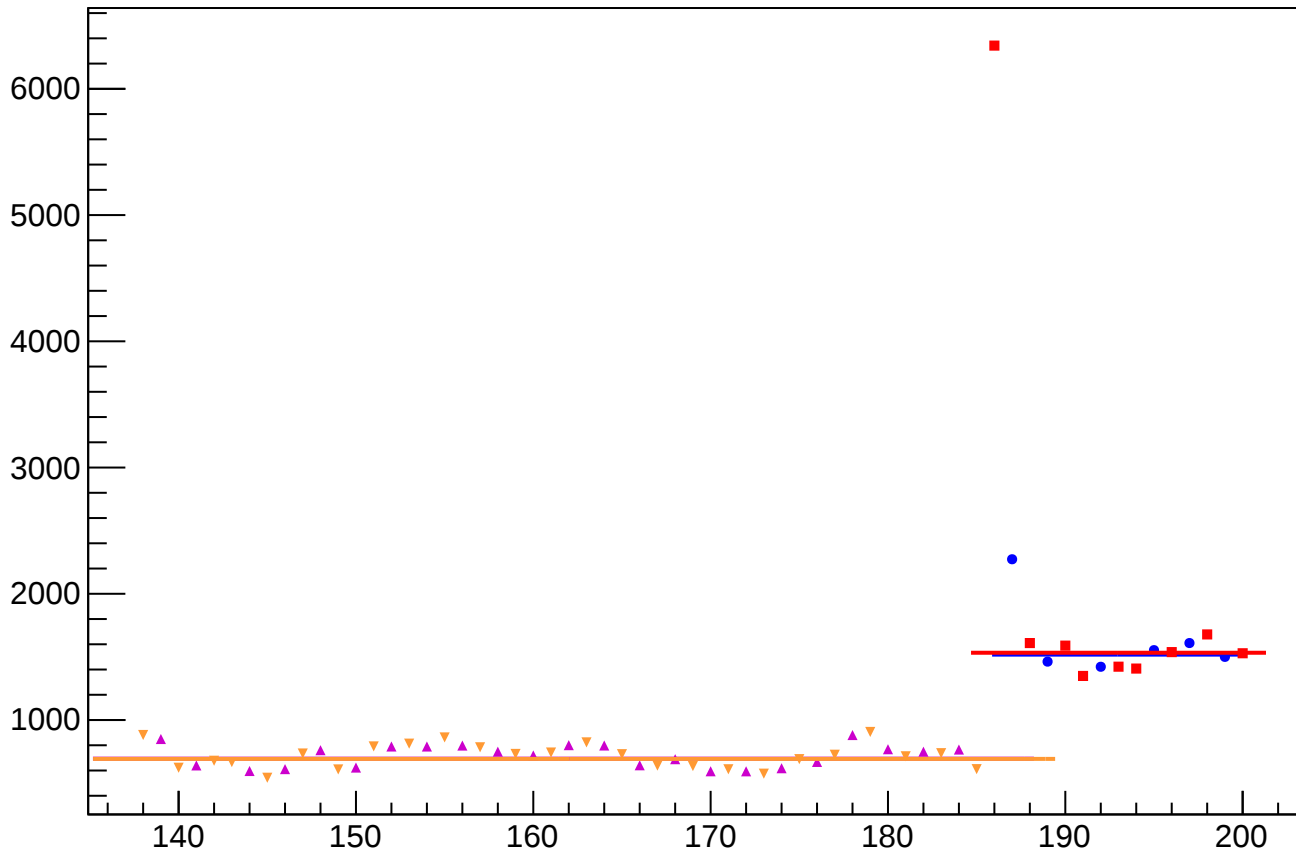
Right: -114.834 ± 496.162 $\chi^2/\text{NDF}: 16.9/14$

In: -67.039 ± 163.807 $\chi^2/\text{NDF}: 32.8/28$

Out: 702.423 ± 158.056 $\chi^2/\text{NDF}: 60.5/33$

All: 331.436 ± 113.741 $\chi^2/\text{NDF}: 104.7/62$

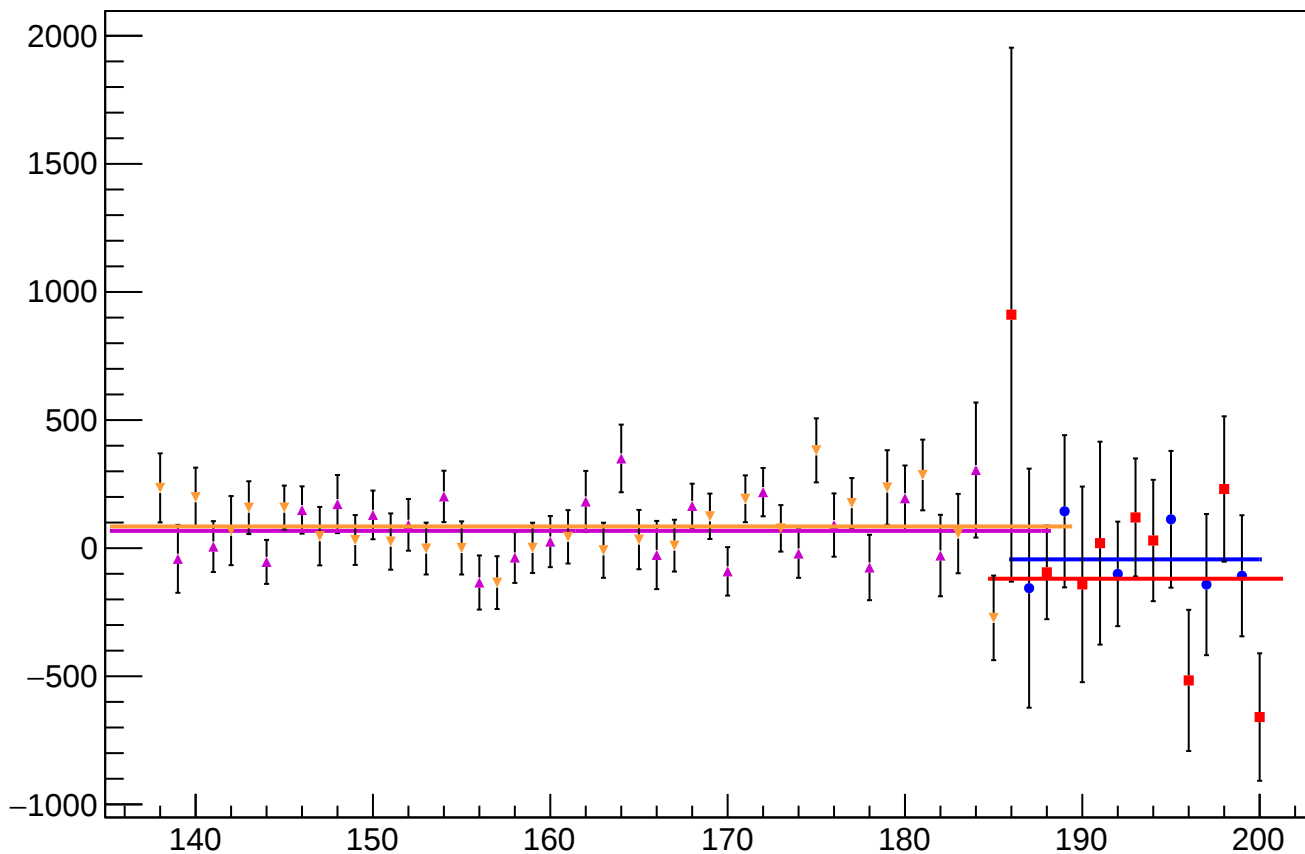
asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1518.114 $\pm$ 0.544 χ^2 /NDF: 48657.2/5
 Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24
 Right Out: 1532.924 $\pm$ 0.459 χ^2 /NDF: 471926.1/8
 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: 1526.774 $\pm$ 0.351 χ^2 /NDF: 521016.0/14
 In: 731.171 $\pm$ 0.116 χ^2 /NDF: 2758821.8/28
 Out: 741.993 $\pm$ 0.112 χ^2 /NDF: 4288656.0/33
 All: 736.775 $\pm$ 0.080 χ^2 /NDF: 7051997.9/62

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -43.677 ± 108.414 χ^2/NDF : 1.1/5

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -119.262 ± 90.346 χ^2/NDF : 10.9/8

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

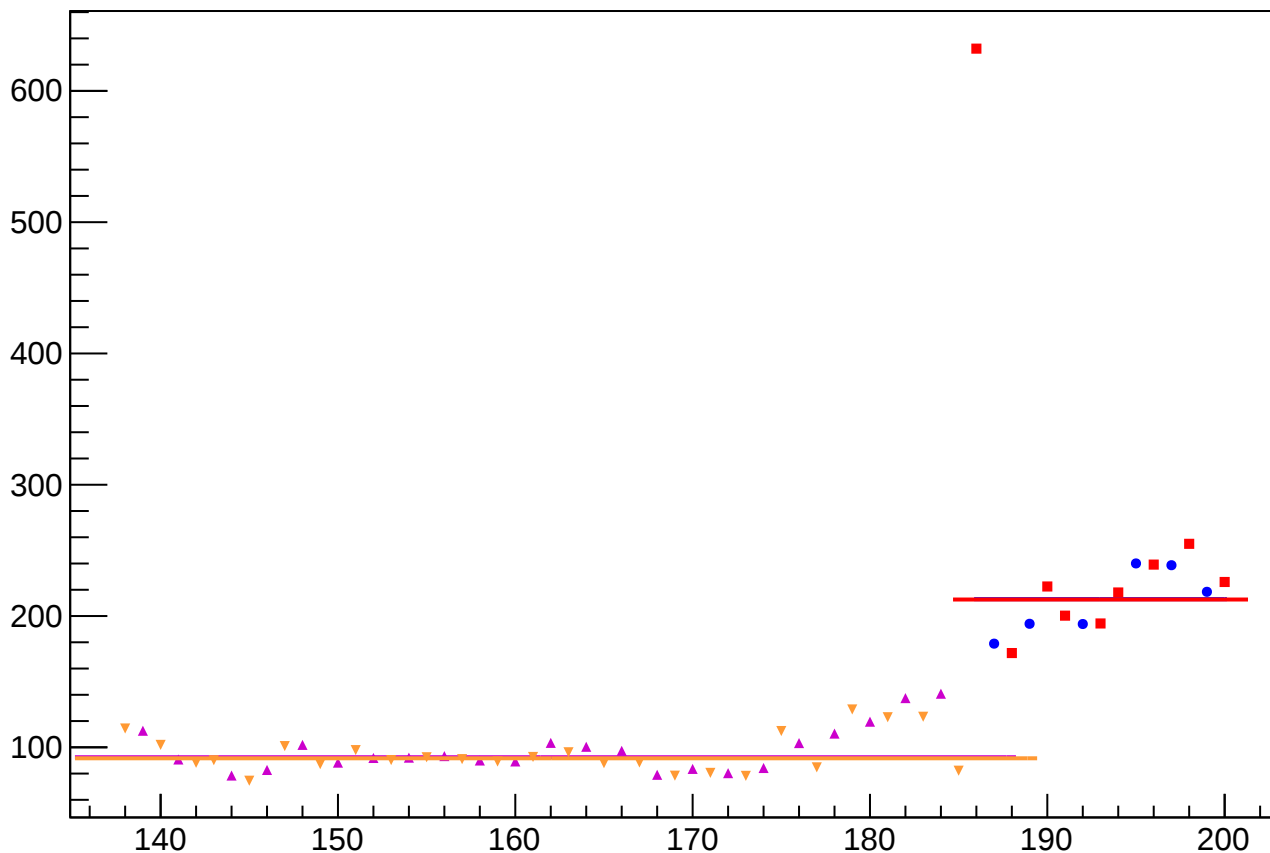
Right: -88.284 ± 69.406 χ^2/NDF : 12.3/14

In: 62.979 ± 21.983 χ^2/NDF : 30.9/28

Out: 73.782 ± 21.047 χ^2/NDF : 44.2/33

All: 68.615 ± 15.203 χ^2/NDF : 75.3/62

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 212.846 $\pm$ 0.077 χ^2/NDF : 75283.4/5

Left Out: 91.633 $\pm$ 0.015 χ^2/NDF : 693122.0/24

Right Out: 212.576 $\pm$ 0.064 χ^2/NDF : 509800.1/8

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

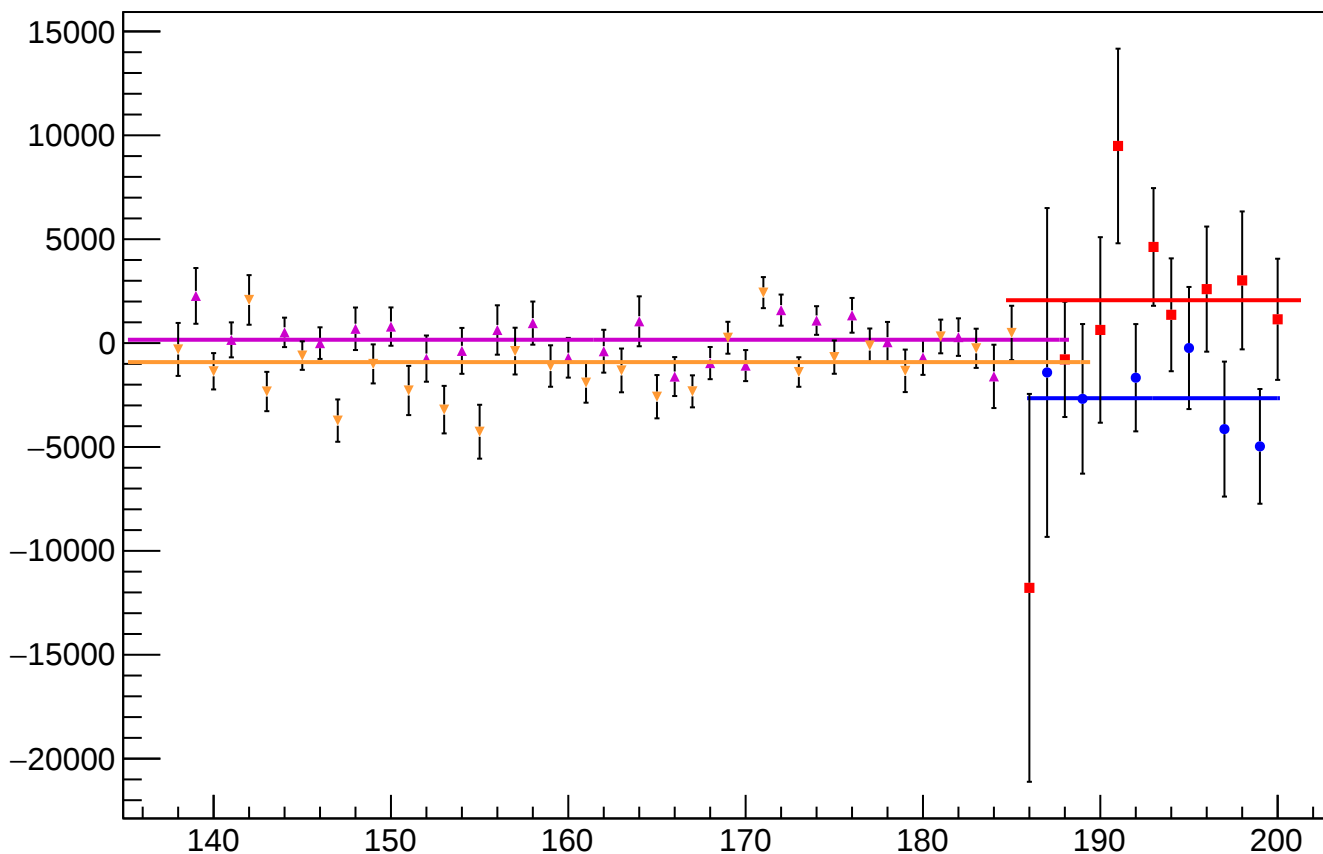
Right: 212.687 $\pm$ 0.049 χ^2/NDF : 585090.8/14

In: 97.415 $\pm$ 0.016 χ^2/NDF : 3095473.8/28

Out: 98.197 $\pm$ 0.015 χ^2/NDF : 4592469.6/33

All: 97.823 $\pm$ 0.011 χ^2/NDF : 7689261.2/62

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -2652.154 $\pm$ 1307.555 χ^2 /NDF: 1.8/5

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF:64.2/24

Right Out: 2063.236 $\pm$ 1106.995 χ^2 /NDF: 7.0/8

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

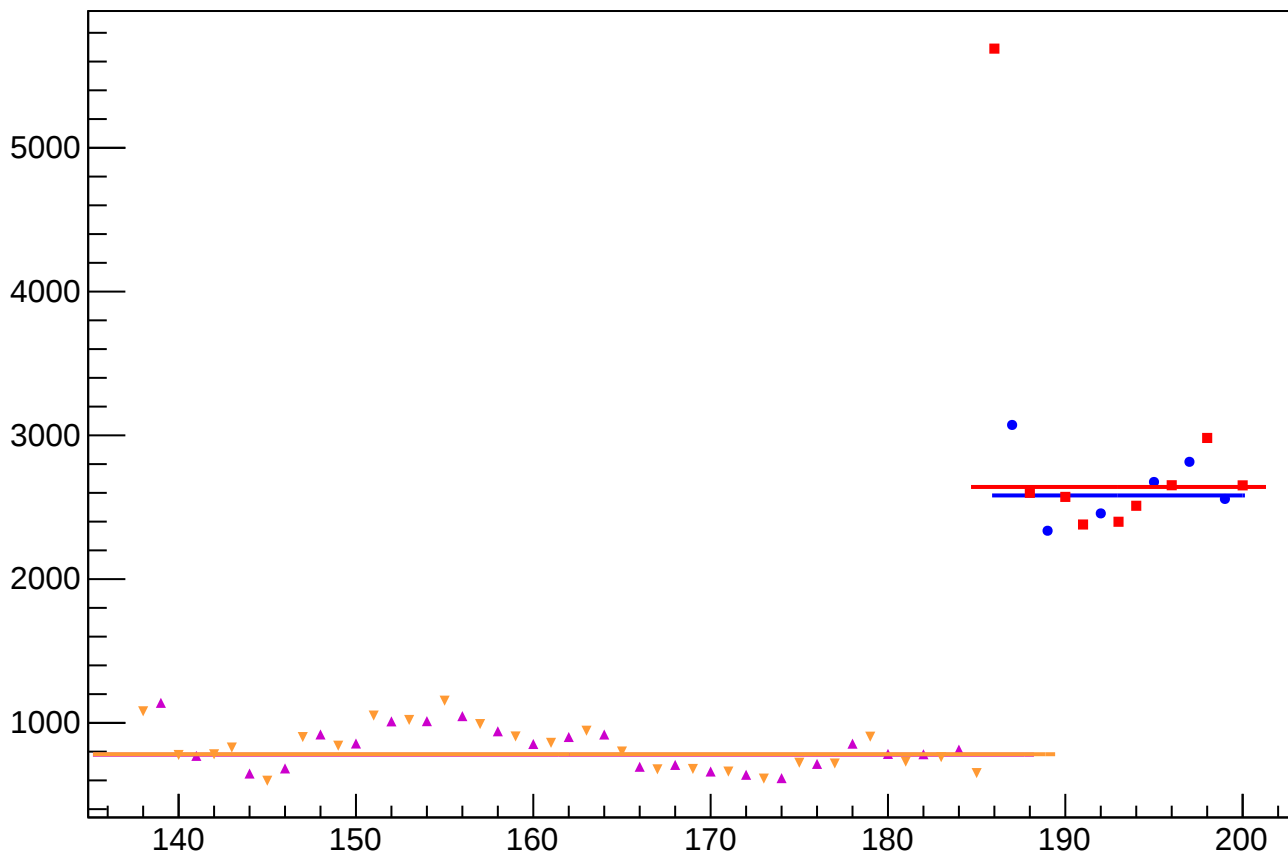
Right: 94.532 $\pm$ 844.873 χ^2 /NDF: 16.3/14

In: 103.209 $\pm$ 187.532 χ^2 /NDF:31.4/28

Out: -833.518 $\pm$ 182.796 χ^2 /NDF:78.2/33

All: -377.130 $\pm$ 130.899 χ^2 /NDF: 122.3/62

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2582.044 $\pm$ 0.925 χ^2 /NDF: 34221.1/5

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF:1130984.3/24

Right Out: 2641.031 $\pm$ 0.783 χ^2 /NDF: 260932.8/8

Left In: 778.995 $\pm$ 0.134 χ^2 /NDF:980243.4/22

Left: 780.552 $\pm$ 0.094 χ^2 /NDF: 2111492.1/47

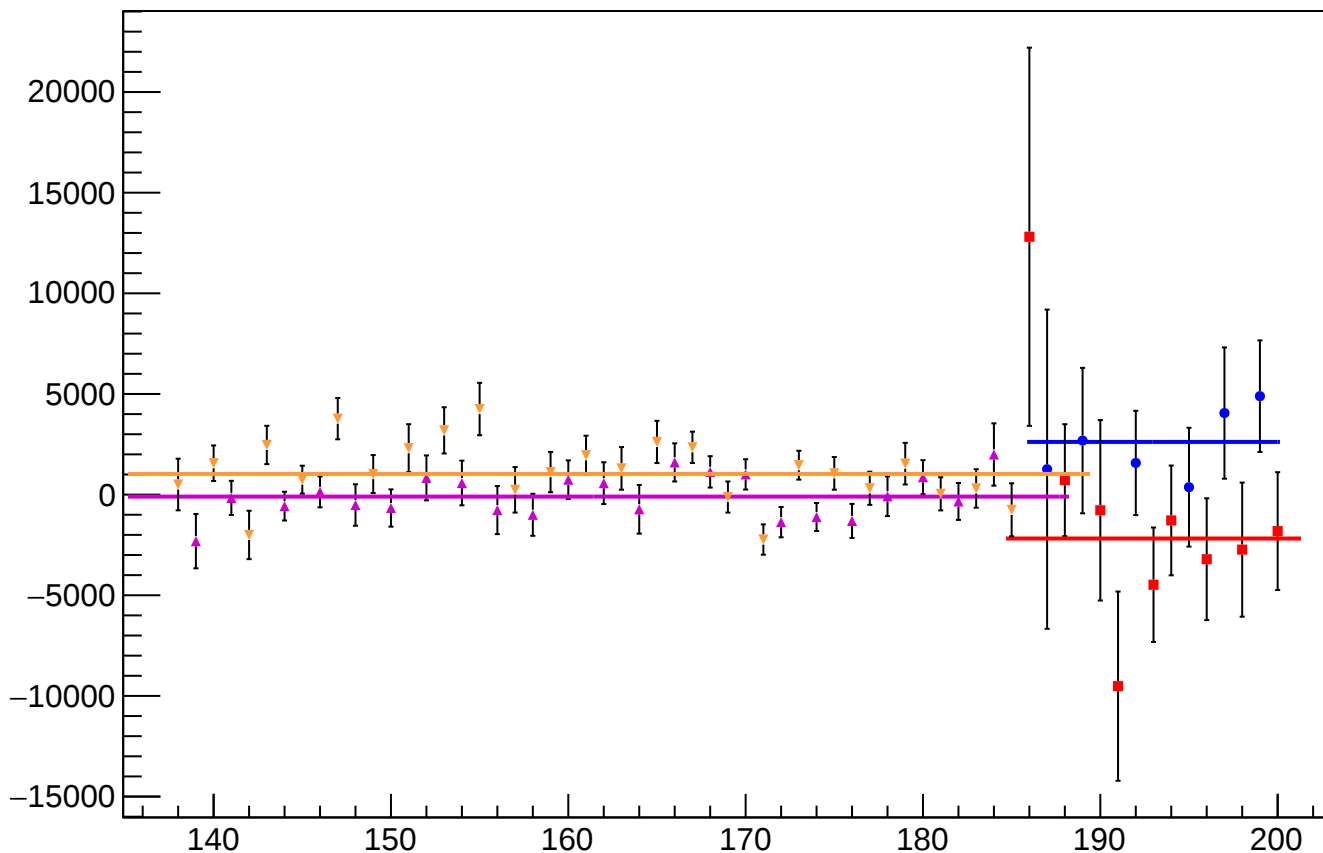
Right: 2616.403 $\pm$ 0.597 χ^2 /NDF: 297524.8/14

In: 816.083 $\pm$ 0.133 χ^2 /NDF:4739230.1/28

Out: 832.732 $\pm$ 0.129 χ^2 /NDF:6878298.0/33

All: 824.620 $\pm$ 0.093 χ^2 /NDF: 11625611.2/62

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2618.895 $\pm$ 1312.347 χ^2 /NDF: 1.6/5

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -2180.724 $\pm$ 1111.119 χ^2 /NDF: 7.1/8

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

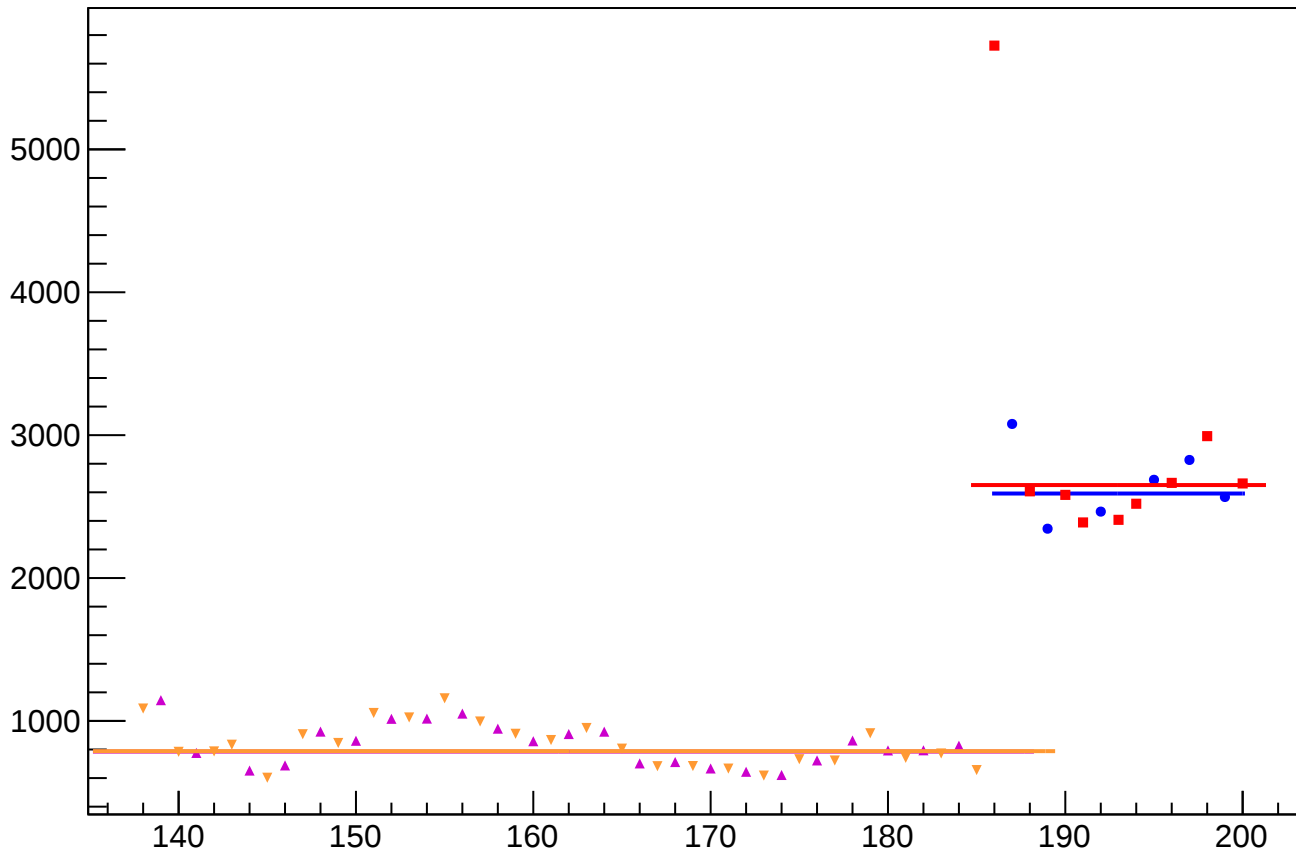
Right: -176.713 $\pm$ 847.999 χ^2 /NDF: 16.5/14

In: -42.305 $\pm$ 189.035 χ^2 /NDF:31.2/28

Out: 940.632 $\pm$ 184.225 χ^2 /NDF:75.4/33

All: 461.829 $\pm$ 131.934 χ^2 /NDF: 120.4/62

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2591.509 $\pm$ 0.928 χ^2 /NDF: 34265.2/5

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF:1113741.6/24

Right Out: 2650.791 $\pm$ 0.786 χ^2 /NDF: 262000.1/8

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

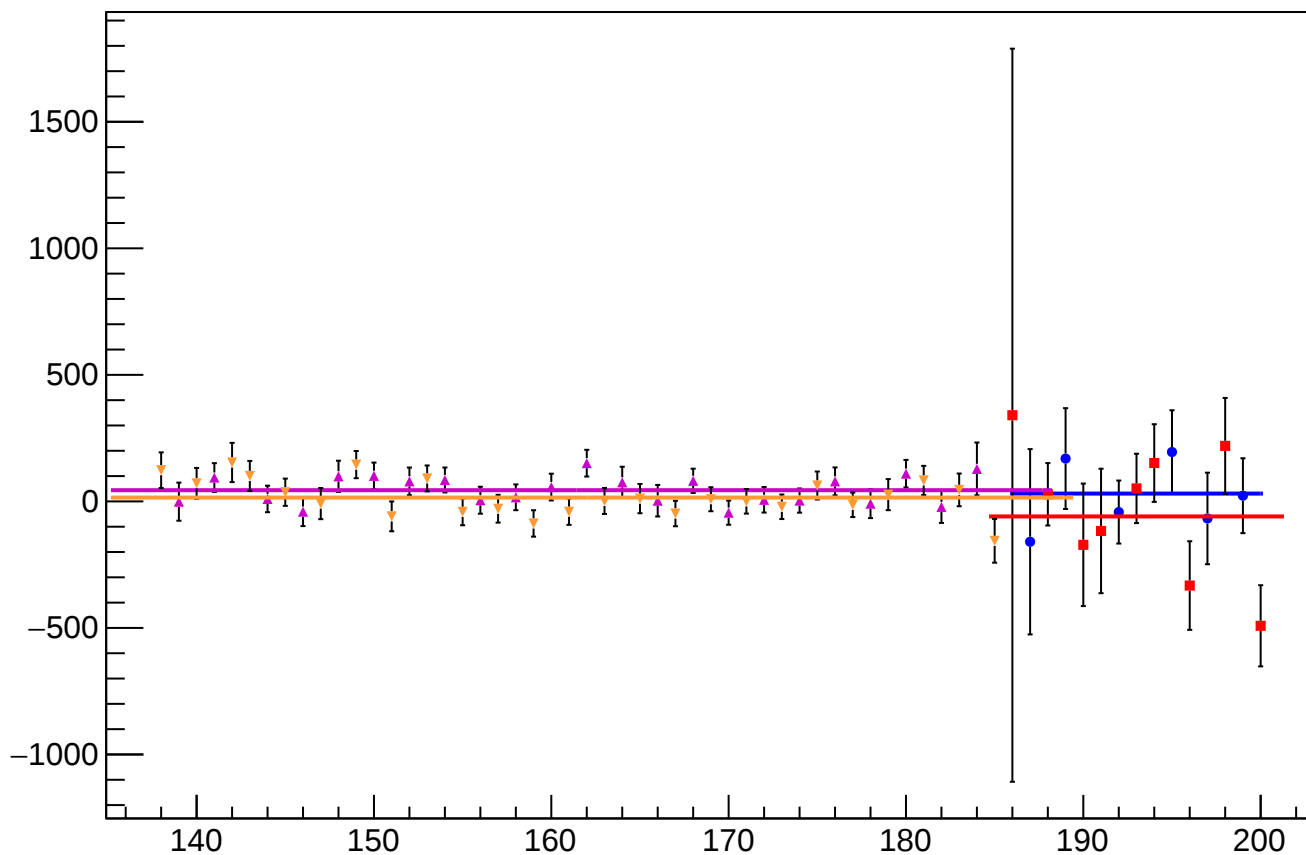
Right: 2626.039 $\pm$ 0.600 χ^2 /NDF: 298642.4/14

In: 822.963 $\pm$ 0.134 χ^2 /NDF:4708729.0/28

Out: 839.638 $\pm$ 0.130 χ^2 /NDF:6839923.8/33

All: 831.515 $\pm$ 0.093 χ^2 /NDF: 11556634.9/62

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 30.894 $\pm$ 68.980 χ^2 /NDF: 2.4/5

Left Out: 15.099 $\pm$ 11.154 χ^2 /NDF:34.2/24

Right Out: -59.440 $\pm$ 58.226 χ^2 /NDF: 15.3/8

Left In: 44.297 $\pm$ 11.530 χ^2 /NDF:22.3/22

Left: 29.215 $\pm$ 8.017 χ^2 /NDF: 59.8/47

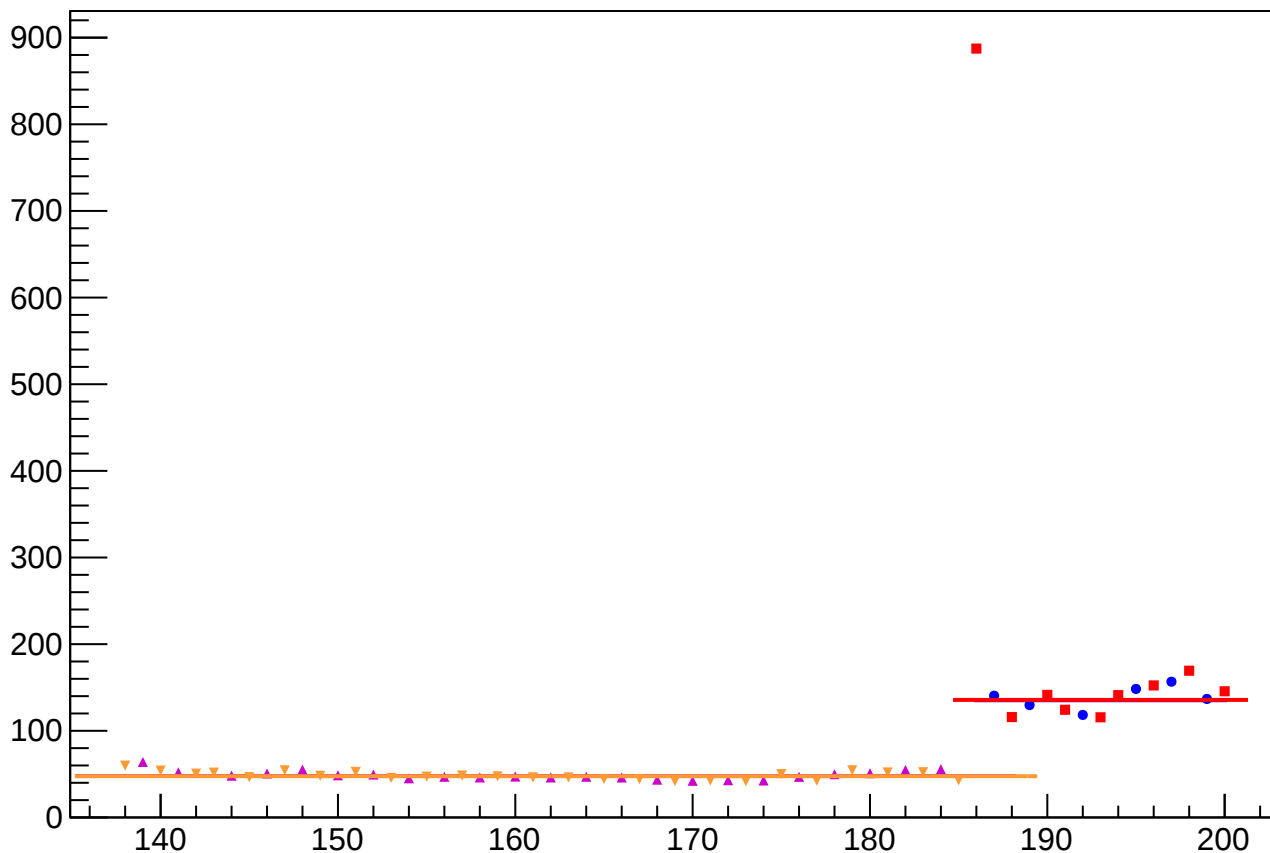
Right: -21.855 $\pm$ 44.494 χ^2 /NDF: 18.6/14

In: 43.933 $\pm$ 11.372 χ^2 /NDF:24.7/28

Out: 12.460 $\pm$ 10.955 χ^2 /NDF:51.0/33

All: 27.609 $\pm$ 7.890 χ^2 /NDF: 79.7/62

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 135.310 $\pm$ 0.049 χ^2 /NDF: 79670.6/5

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF:312874.8/24

Right Out: 135.658 $\pm$ 0.041 χ^2 /NDF: 730436.8/8

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

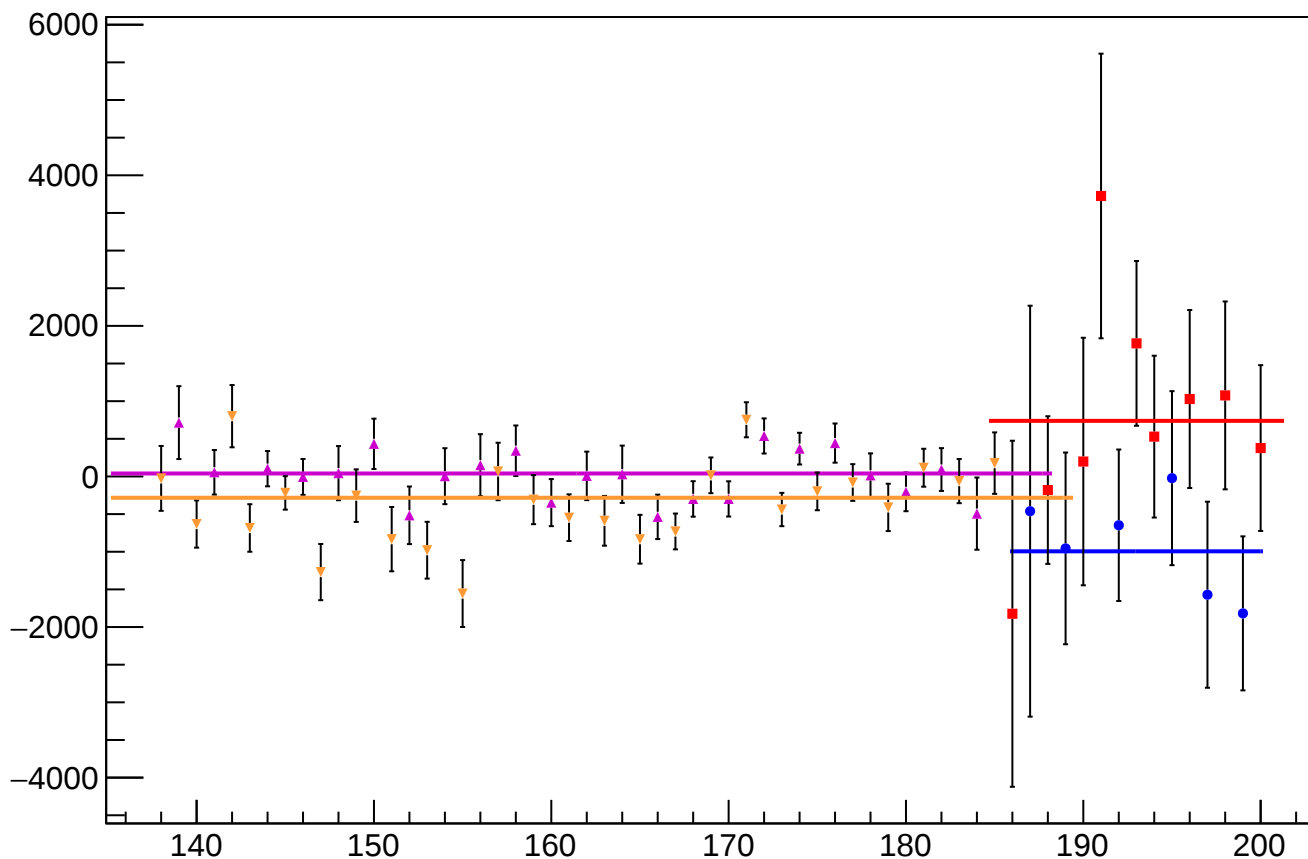
Right: 135.513 $\pm$ 0.031 χ^2 /NDF: 810137.2/14

In: 50.223 $\pm$ 0.008 χ^2 /NDF:3489513.7/28

Out: 50.704 $\pm$ 0.008 χ^2 /NDF:5457133.9/33

All: 50.473 $\pm$ 0.006 χ^2 /NDF: 8948501.1/62

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -994.293 ± 493.944 $\chi^2/\text{NDF}: 1.7/5$

Left Out: -282.798 ± 59.690 $\chi^2/\text{NDF}: 66.5/24$

Right Out: 738.533 ± 416.535 $\chi^2/\text{NDF}: 5.9/8$

Left In: 39.432 ± 60.759 $\chi^2/\text{NDF}: 27.5/22$

Left: -124.543 ± 42.580 $\chi^2/\text{NDF}: 108.4/47$

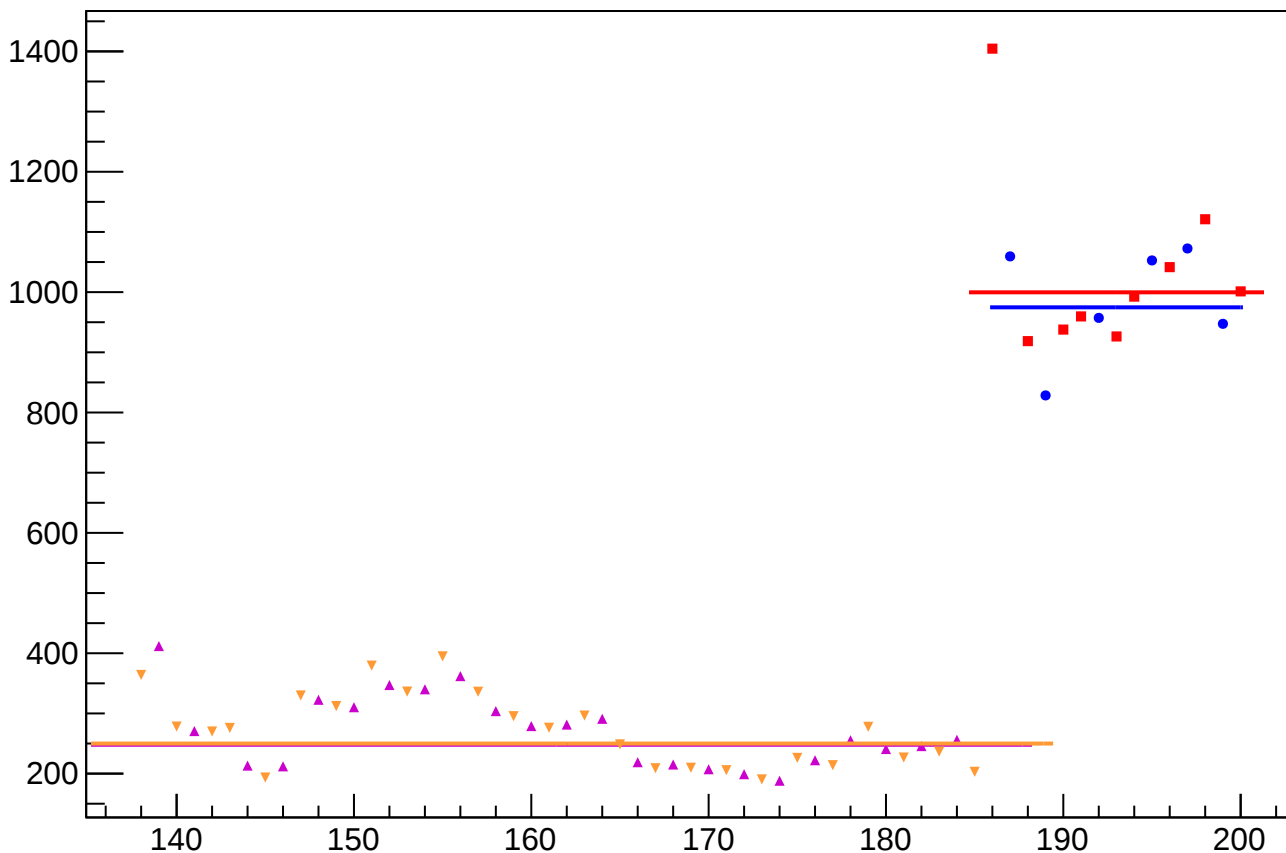
Right: 18.389 ± 318.427 $\chi^2/\text{NDF}: 14.8/14$

In: 24.024 ± 60.304 $\chi^2/\text{NDF}: 33.6/28$

Out: -262.247 ± 59.086 $\chi^2/\text{NDF}: 78.3/33$

All: -122.032 ± 42.204 $\chi^2/\text{NDF}: 123.4/62$

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 974.749+/-0.349 χ^2/NDF : 52013.4/5

Left Out: 249.956+/-0.042 χ^2/NDF : 1614205.9/24

Right Out: 999.686+/-0.295 χ^2/NDF : 110006.8/8

Left In: 247.917+/-0.043 χ^2/NDF : 1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47

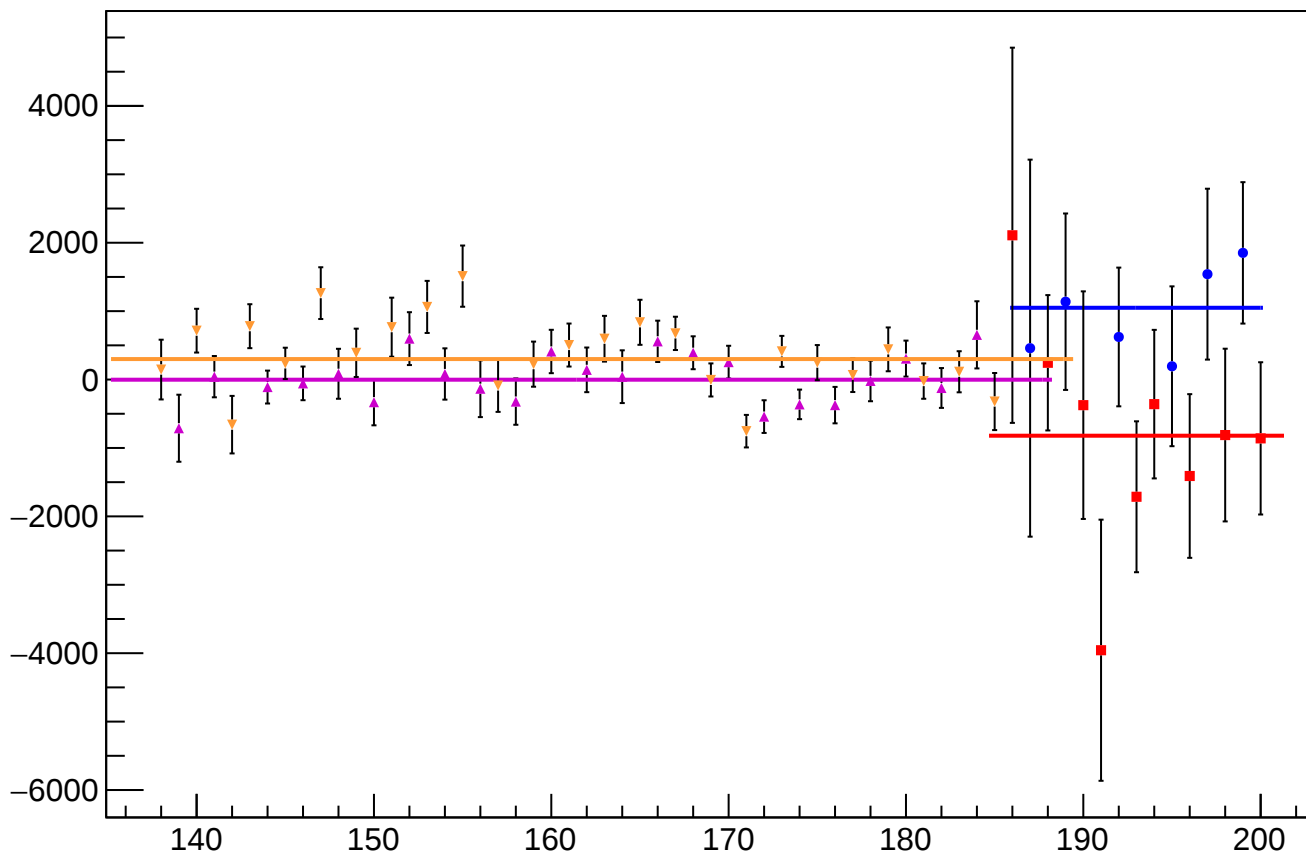
Right: 989.322+/-0.225 χ^2/NDF : 164999.1/14

In: 258.751+/-0.043 χ^2/NDF : 5728854.4/28

Out: 265.042+/-0.042 χ^2/NDF : 8073255.0/33

All: 261.961+/-0.030 χ^2/NDF : 13813217.3/62

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 1049.298 $\pm$ 499.018 χ^2 /NDF: 1.5/5

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: -820.815 $\pm$ 422.787 χ^2 /NDF: 6.2/8

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

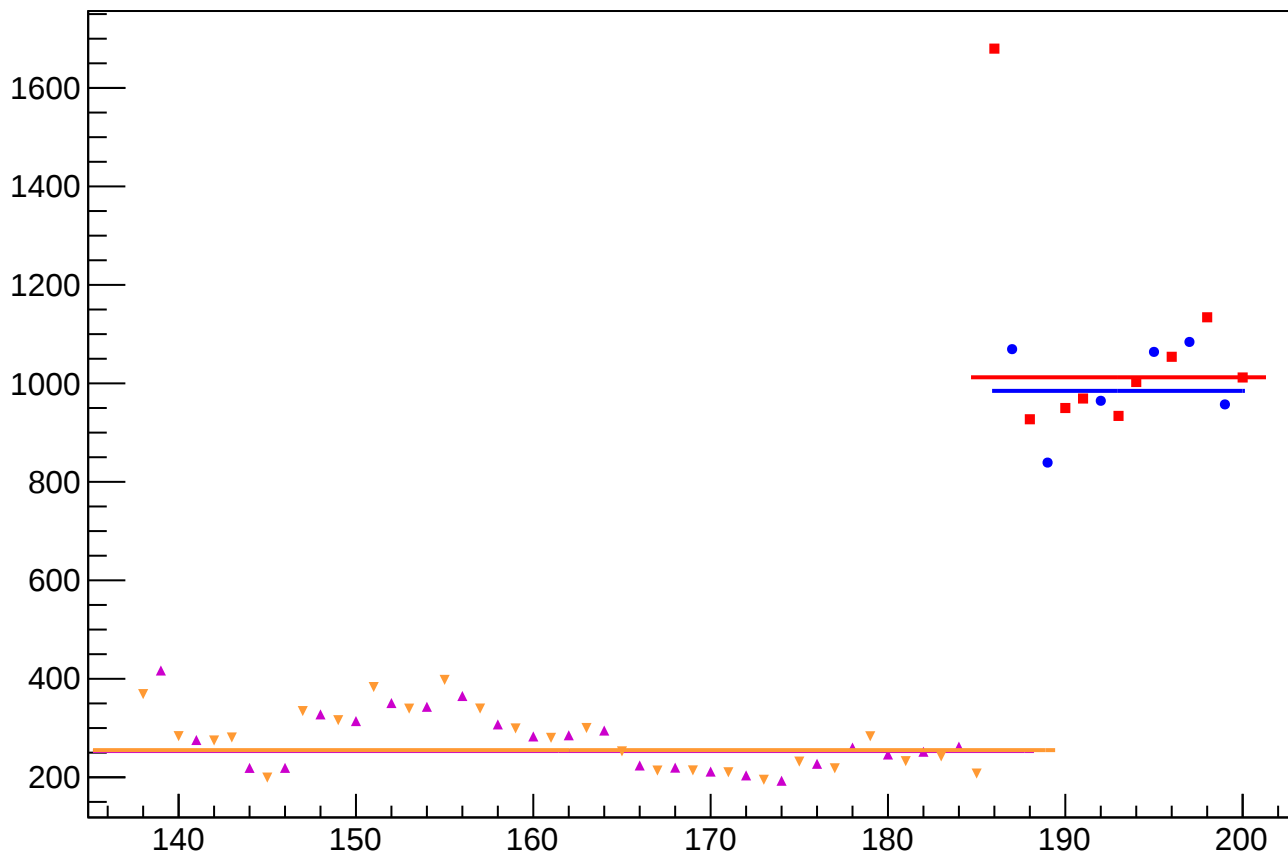
Right: -39.363 $\pm$ 322.577 χ^2 /NDF: 15.9/14

In: 13.802 $\pm$ 61.532 χ^2 /NDF:35.1/28

Out: 276.818 $\pm$ 60.239 χ^2 /NDF:75.5/33

All: 148.102 $\pm$ 43.045 χ^2 /NDF: 119.9/62

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 984.768+/-0.353 χ^2/NDF : 51456.8/5

Left Out: 255.135+/-0.043 χ^2/NDF : 1542039.5/24

Right Out: 1012.340+/-0.299 χ^2/NDF : 168494.4/8

Left In: 253.287+/-0.044 χ^2/NDF : 1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

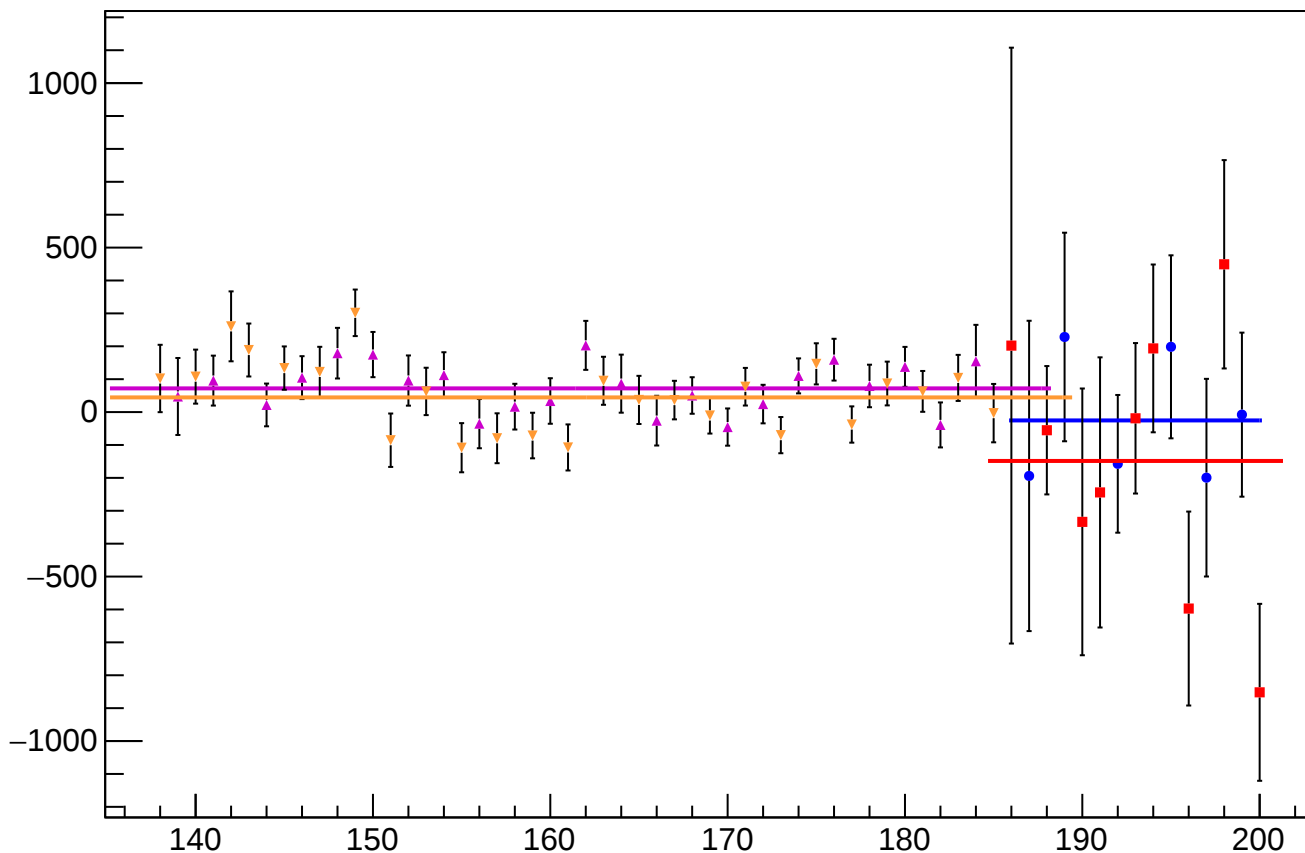
Right: 1000.819+/-0.228 χ^2/NDF : 223505.5/14

In: 264.409+/-0.044 χ^2/NDF : 5625152.6/28

Out: 270.507+/-0.043 χ^2/NDF : 7995551.1/33

All: 267.523+/-0.030 χ^2/NDF : 13630734.0/62

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -25.367 ± 113.696 $\chi^2/\text{NDF}: 2.2/5$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -148.551 ± 95.648 $\chi^2/\text{NDF}: 15.5/8$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

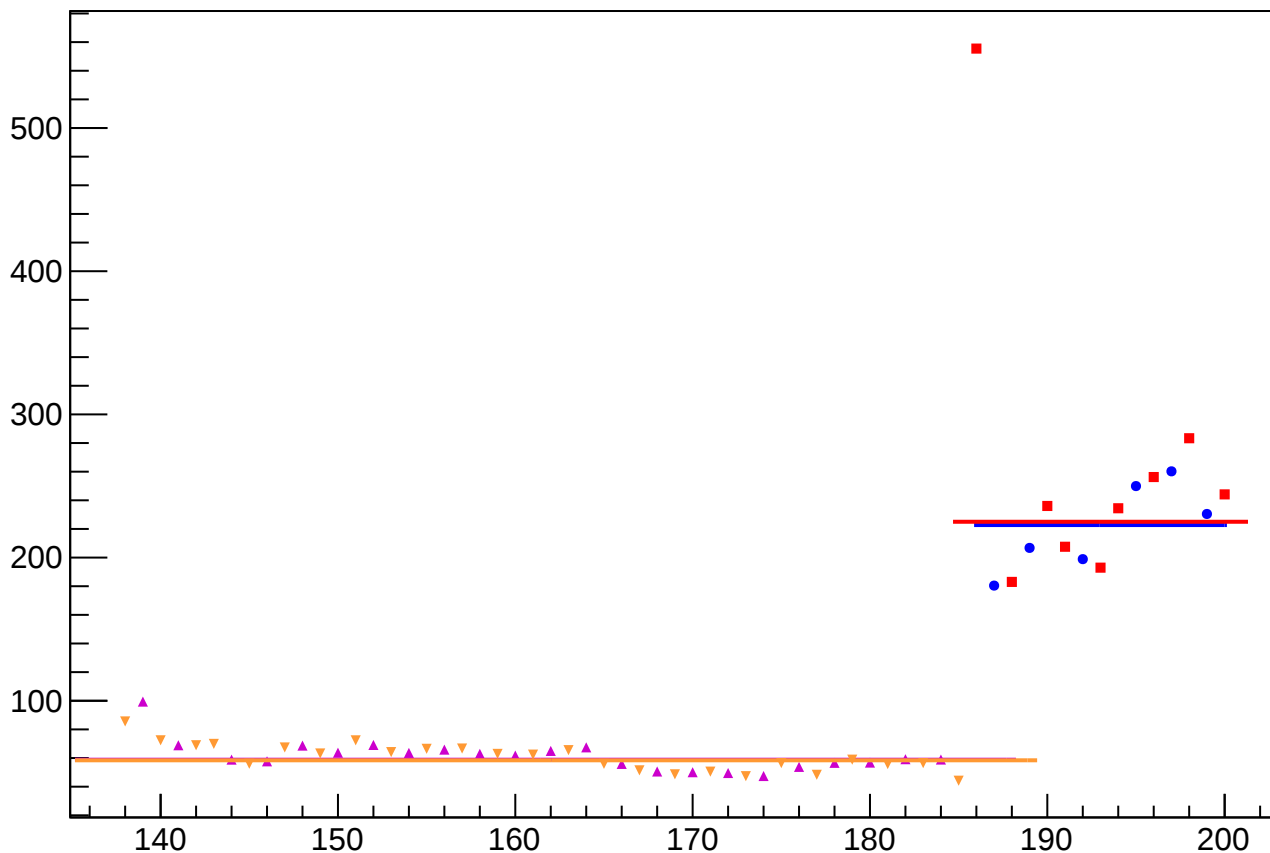
Right: -97.500 ± 73.193 $\chi^2/\text{NDF}: 18.3/14$

In: 70.521 ± 14.185 $\chi^2/\text{NDF}: 28.2/28$

Out: 40.649 ± 13.682 $\chi^2/\text{NDF}: 73.4/33$

All: 55.047 ± 9.848 $\chi^2/\text{NDF}: 103.9/62$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 222.719+/-0.080 χ^2/NDF : 99277.7/5

Left Out: 58.423+/-0.010 χ^2/NDF : 790091.3/24

Right Out: 225.021+/-0.068 χ^2/NDF : 506528.1/8

Left In: 58.840+/-0.010 χ^2/NDF : 679925.7/22

Left: 58.624+/-0.007 χ^2/NDF : 1470896.0/47

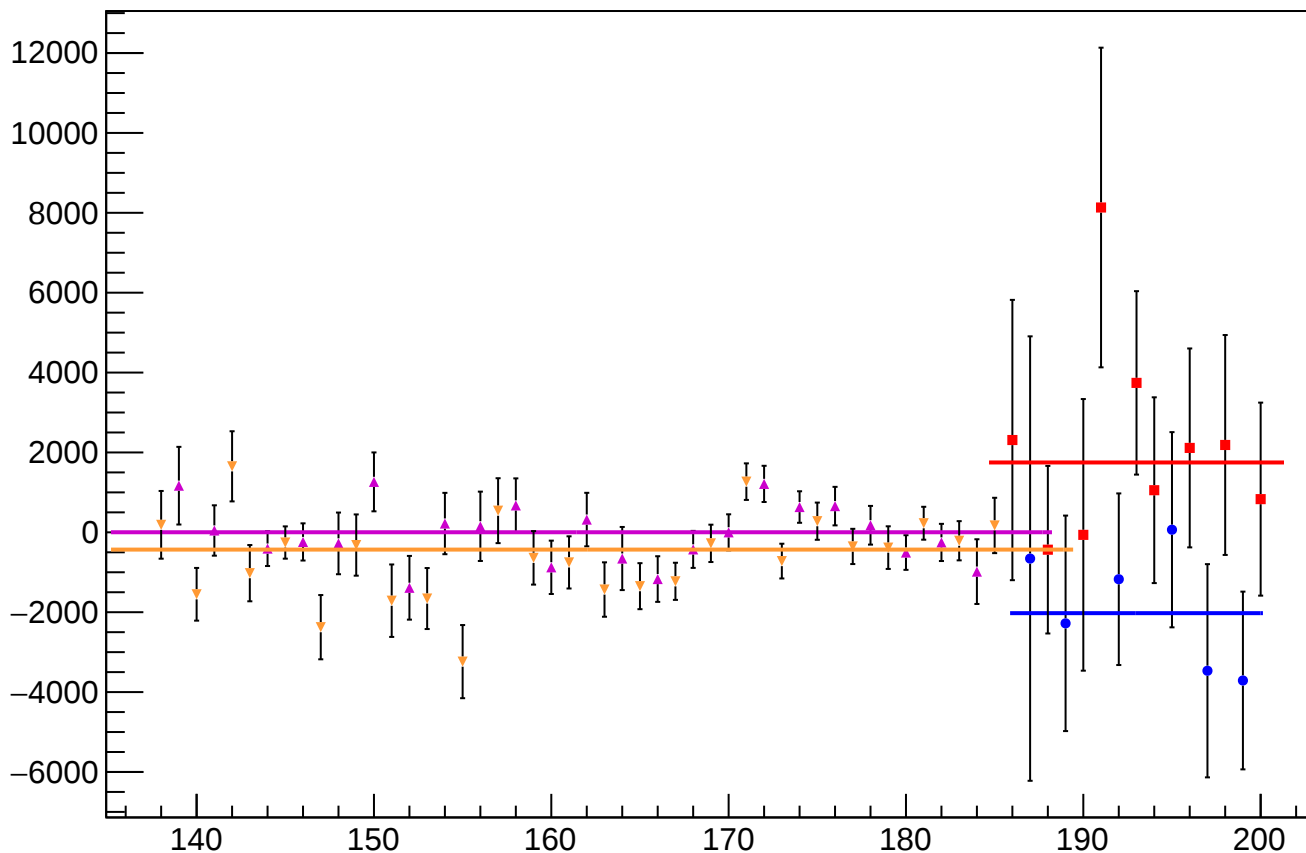
Right: 224.067+/-0.052 χ^2/NDF : 606286.1/14

In: 61.390+/-0.010 χ^2/NDF : 4869675.7/28

Out: 61.832+/-0.010 χ^2/NDF : 7240139.9/33

All: 61.619+/-0.007 χ^2/NDF : 12110818.4/62

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -2023.772 ± 1056.372 $\chi^2/\text{NDF}: 1.8/5$

Left Out: -432.330 ± 114.408 $\chi^2/\text{NDF}: 59.4/24$

Right Out: 1749.068 ± 878.315 $\chi^2/\text{NDF}: 5.0/8$

Left In: 1.825 ± 116.459 $\chi^2/\text{NDF}: 32.3/22$

Left: -219.109 ± 81.614 $\chi^2/\text{NDF}: 98.8/47$

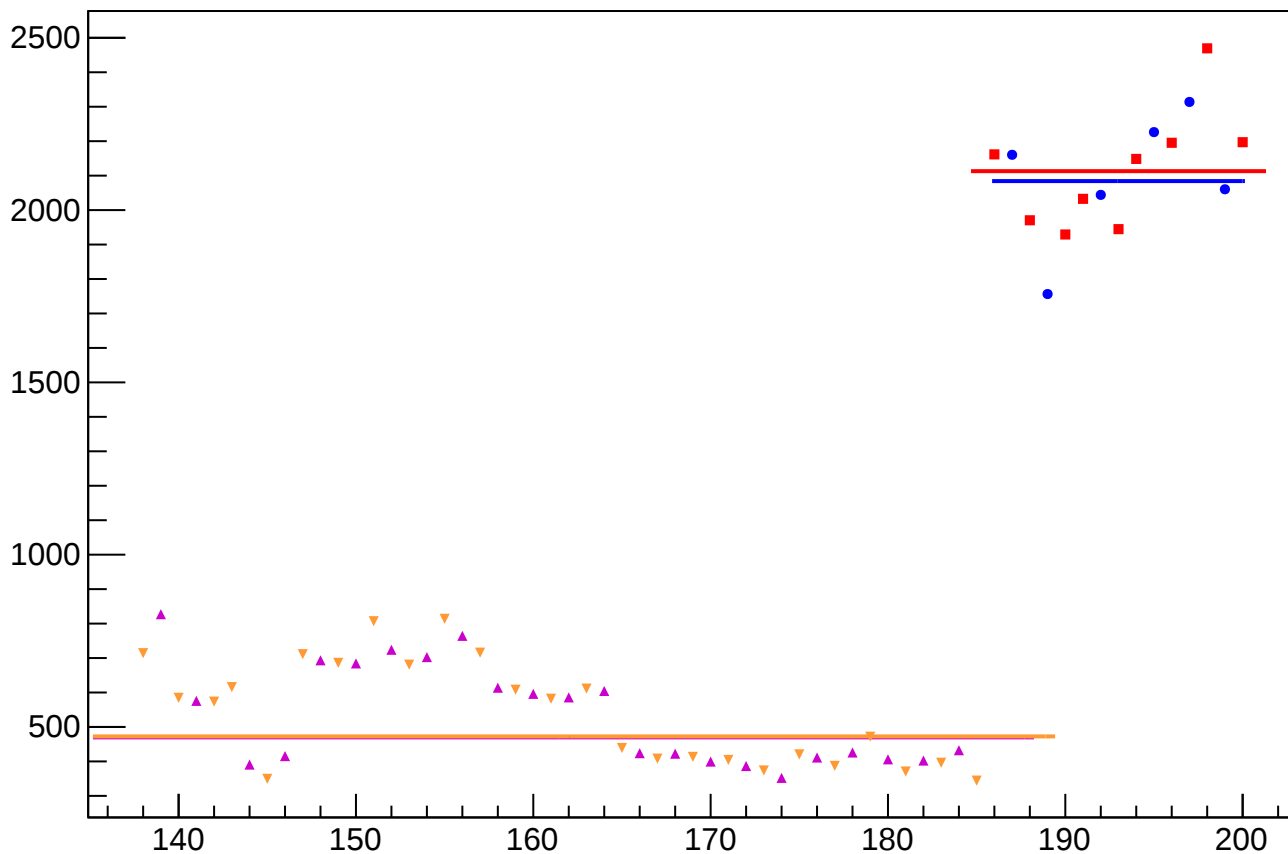
Right: 206.962 ± 675.367 $\chi^2/\text{NDF}: 14.3/14$

In: -22.498 ± 115.757 $\chi^2/\text{NDF}: 37.8/28$

Out: -395.935 ± 113.450 $\chi^2/\text{NDF}: 70.4/33$

All: -212.976 ± 81.025 $\chi^2/\text{NDF}: 113.5/62$

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 2084.192+/-0.747 χ^2/NDF : 52400.2/5

Left Out: 472.569+/-0.081 χ^2/NDF : 2508168.9/24

Right Out: 2113.024+/-0.621 χ^2/NDF : 65599.0/8

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

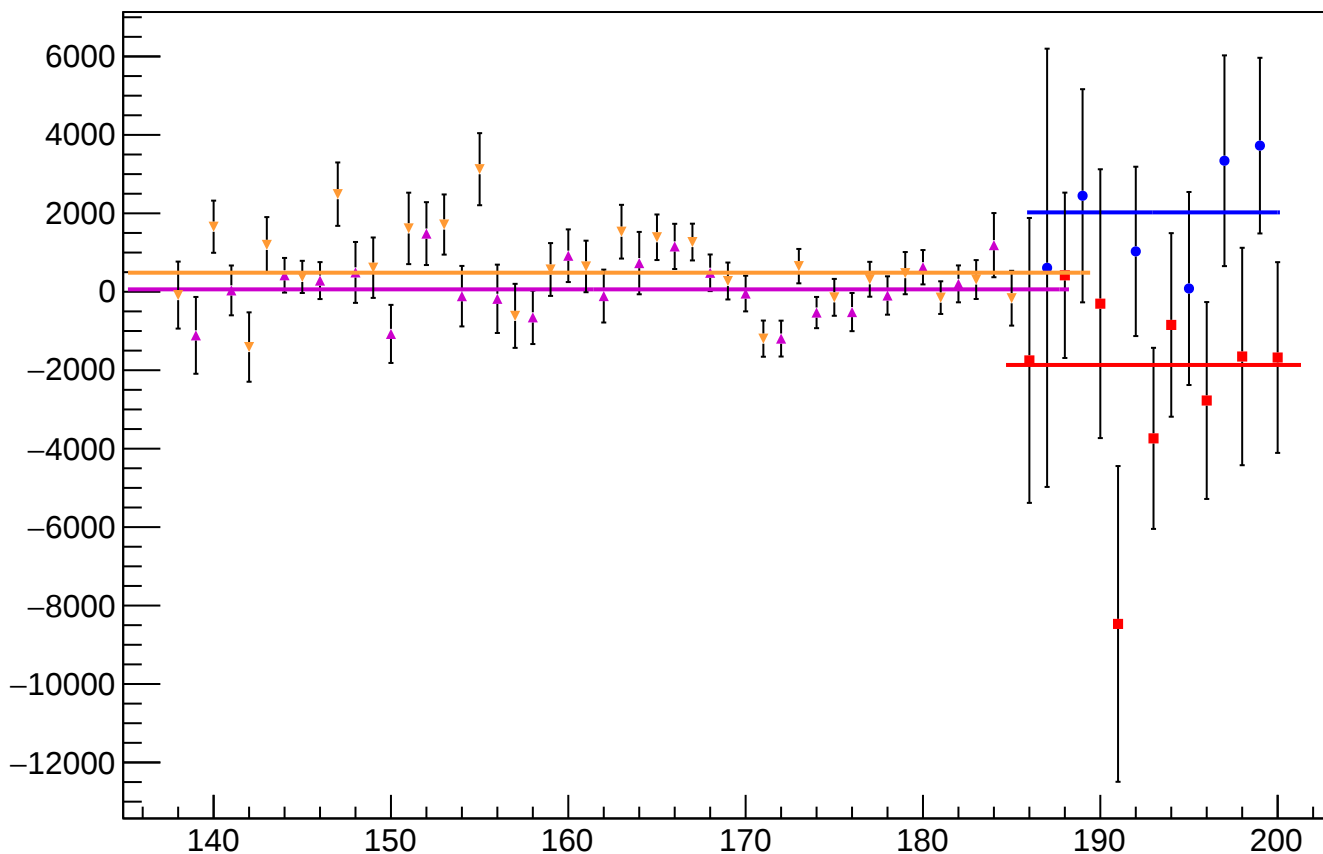
Right: 2101.239+/-0.478 χ^2/NDF : 118880.1/14

In: 489.147+/-0.082 χ^2/NDF : 6784459.3/28

Out: 499.939+/-0.080 χ^2/NDF : 9434201.9/33

All: 494.651+/-0.057 χ^2/NDF : 16227527.1/62

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 2024.412 $\pm$ 1062.885 χ^2 /NDF: 1.7/5

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -1865.671 $\pm$ 885.282 χ^2 /NDF: 5.1/8

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

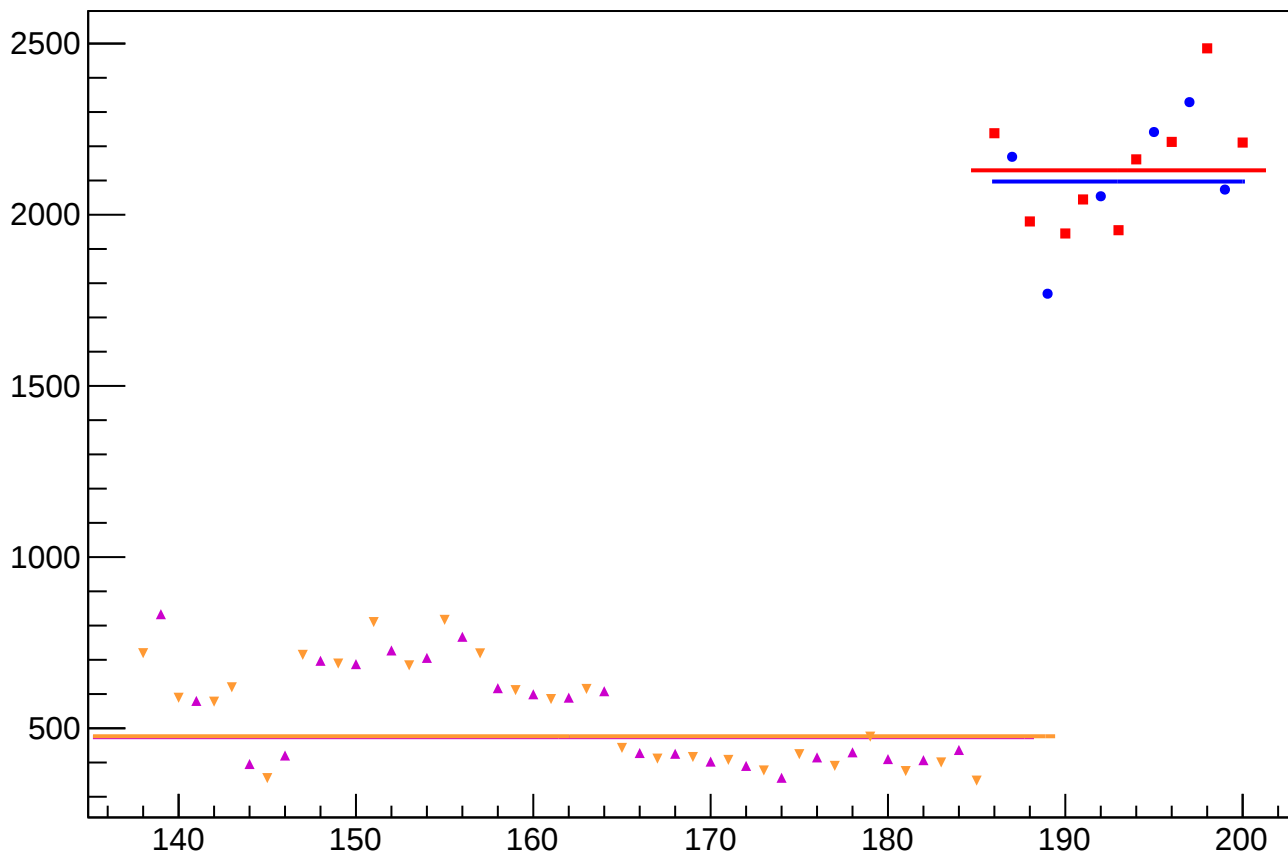
Right: -272.343 $\pm$ 680.236 χ^2 /NDF: 14.7/14

In: 85.450 $\pm$ 116.738 χ^2 /NDF:36.3/28

Out: 447.378 $\pm$ 114.379 χ^2 /NDF:68.0/33

All: 270.108 $\pm$ 81.700 χ^2 /NDF: 109.2/62

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 2097.037 $\pm$ 0.752 χ^2 /NDF: 52238.8/5

Left Out: 476.690 $\pm$ 0.082 χ^2 /NDF: 2472737.6/24

Right Out: 2129.708 $\pm$ 0.626 χ^2 /NDF: 67824.8/8

Left In: 473.983 $\pm$ 0.083 χ^2 /NDF: 2087113.7/22

Left: 475.361 $\pm$ 0.058 χ^2 /NDF: 4560392.0/47

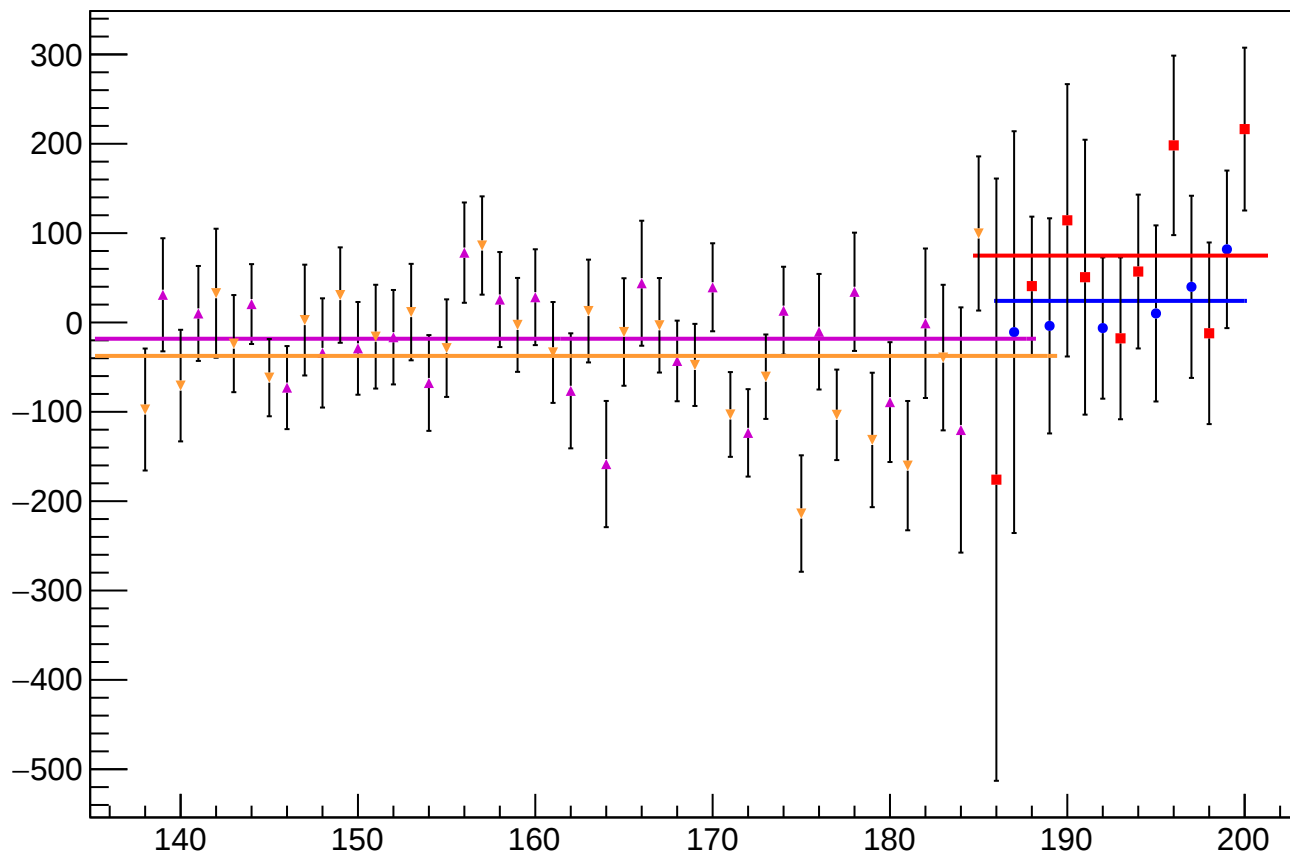
Right: 2116.326 $\pm$ 0.481 χ^2 /NDF: 121179.4/14

In: 493.562 $\pm$ 0.083 χ^2 /NDF: 6746713.7/28

Out: 504.284 $\pm$ 0.081 χ^2 /NDF: 9397202.3/33

All: 499.032 $\pm$ 0.058 χ^2 /NDF: 16152523.1/62

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 24.164 ± 41.645 χ^2/NDF : 0.7/5

Left Out: -37.413 ± 11.390 χ^2/NDF : 30.5/24

Right Out: 74.837 ± 34.654 χ^2/NDF : 6.6/8

Left In: -18.210 ± 11.788 χ^2/NDF : 23.0/22

Left: -28.141 ± 8.191 χ^2/NDF : 54.8/47

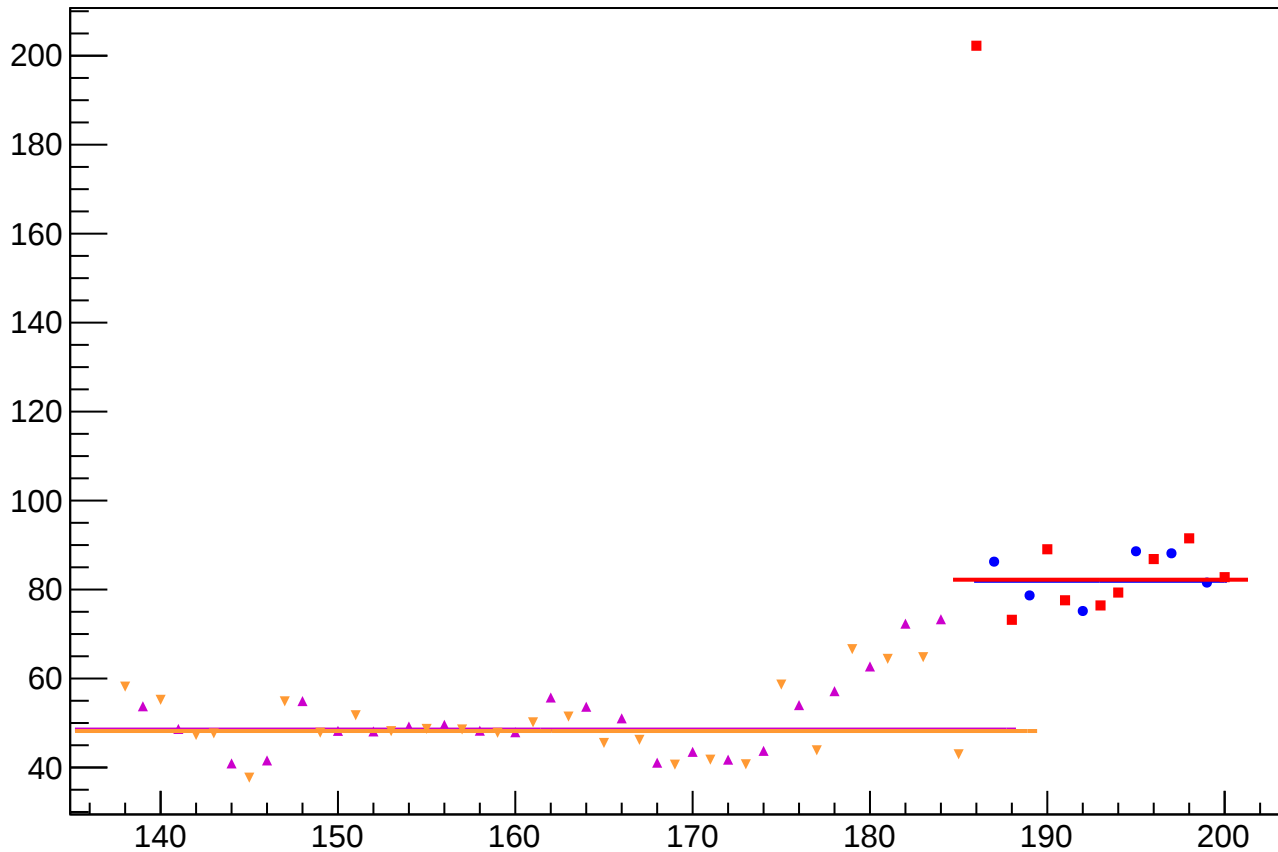
Right: 54.104 ± 26.638 χ^2/NDF : 8.2/14

In: -15.067 ± 11.342 χ^2/NDF : 24.6/28

Out: -26.470 ± 10.820 χ^2/NDF : 46.5/33

All: -21.037 ± 7.829 χ^2/NDF : 71.7/62

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 81.965 ± 0.029 $\chi^2/\text{NDF}: 33439.4/5$

Left Out: 48.200 ± 0.008 $\chi^2/\text{NDF}: 750196.2/24$

Right Out: 82.212 ± 0.025 $\chi^2/\text{NDF}: 317897.0/8$

Left In: 48.527 ± 0.008 $\chi^2/\text{NDF}: 675340.8/22$

Left: 48.358 ± 0.006 $\chi^2/\text{NDF}: 1426333.4/47$

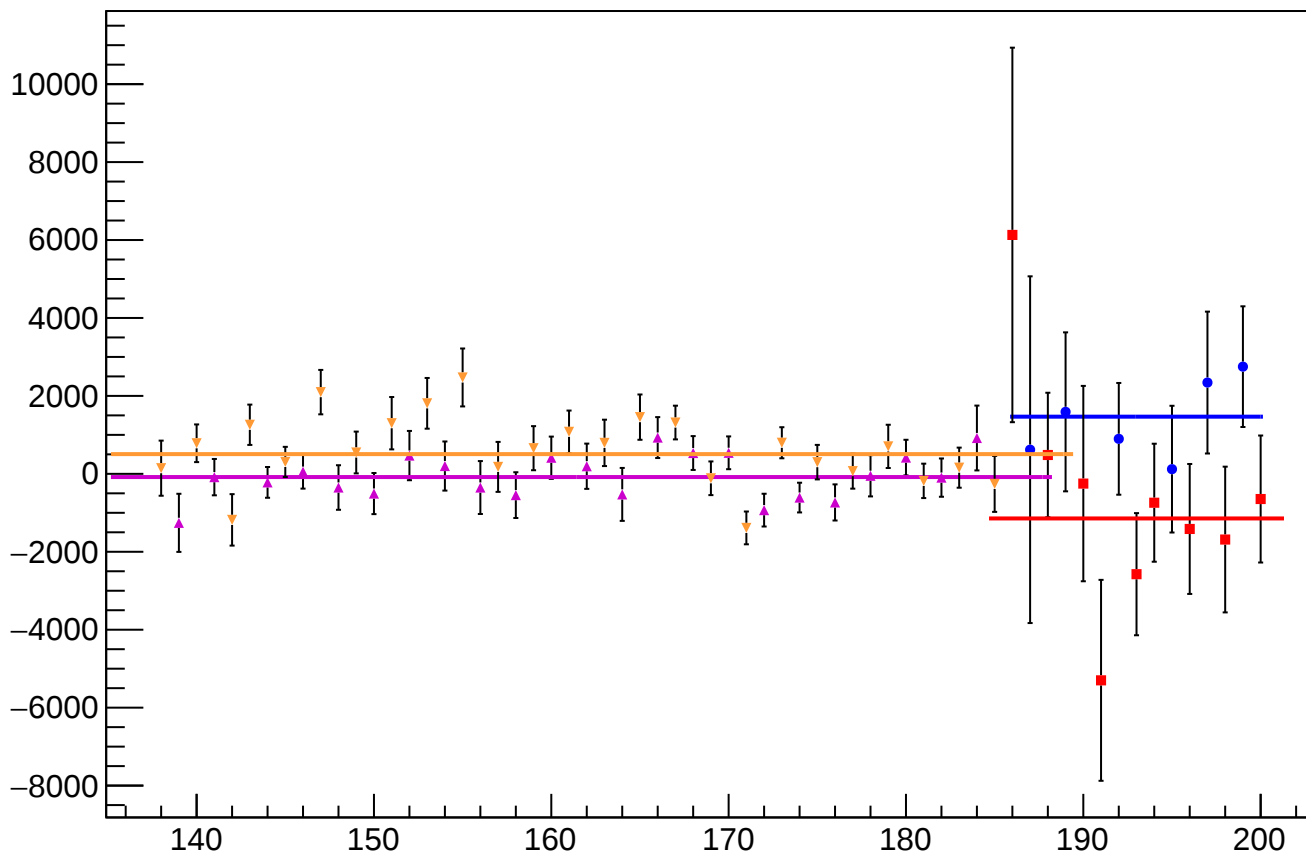
Right: 82.111 ± 0.019 $\chi^2/\text{NDF}: 351378.0/14$

In: 51.007 ± 0.008 $\chi^2/\text{NDF}: 1902517.5/28$

Out: 51.515 ± 0.008 $\chi^2/\text{NDF}: 2806853.3/33$

All: 51.273 ± 0.006 $\chi^2/\text{NDF}: 4711475.2/62$

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1467.144+/-730.417 χ^2/NDF : 1.8/5

Left Out: 506.205+/-103.468 χ^2/NDF : 65.7/24

Right Out: -1144.663+/-618.925 χ^2/NDF : 7.2/8

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

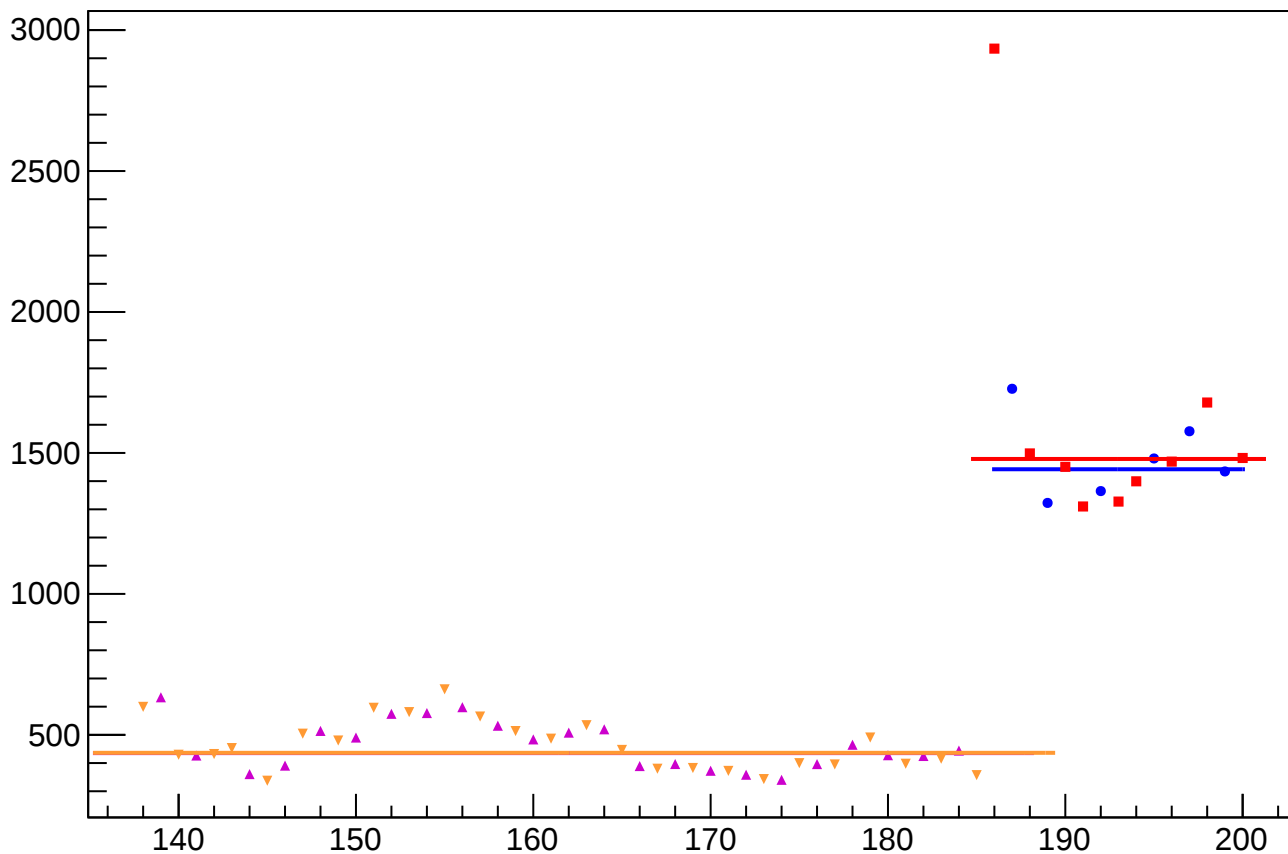
Right: -53.102+/-472.198 χ^2/NDF : 16.4/14

In: -50.498+/-104.838 χ^2/NDF : 31.6/28

Out: 461.323+/-102.051 χ^2/NDF : 79.8/33

All: 212.306+/-73.127 χ^2/NDF : 123.6/62

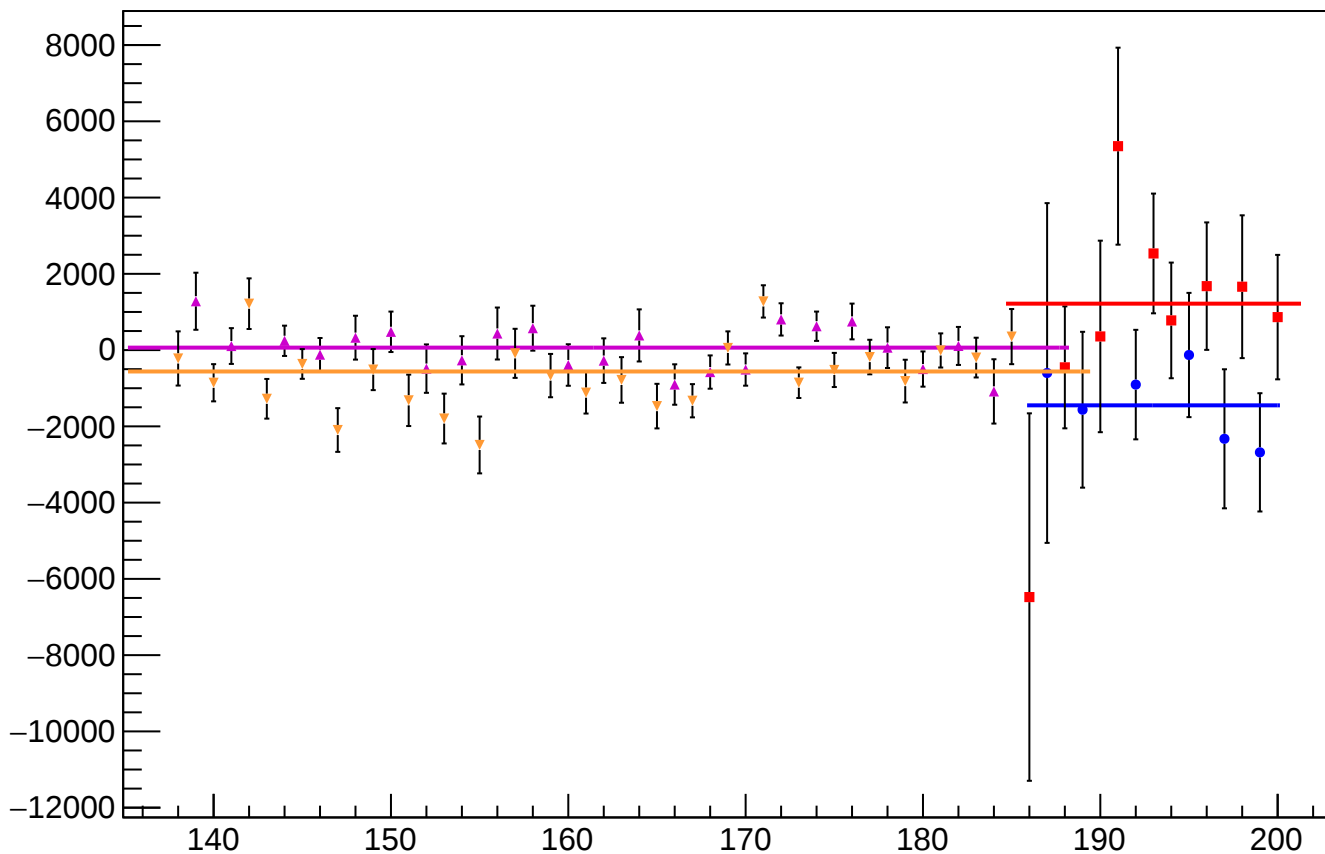
asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1442.160+/-0.516 χ^2/NDF : 33048.3/5
 Left Out: 436.301+/-0.073 χ^2/NDF :1179348.4/24
 Right Out: 1478.665+/-0.438 χ^2/NDF : 239673.7/8
 Left In: 435.275+/-0.075 χ^2/NDF :1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47
 Right: 1463.408+/-0.334 χ^2/NDF : 275629.8/14
 In: 456.018+/-0.074 χ^2/NDF :4783028.4/28
 Out: 464.640+/-0.072 χ^2/NDF :6937535.8/33
 All: 460.445+/-0.052 χ^2/NDF : 11727510.0/62

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1448.821 $\pm$ 731.679 χ^2 /NDF: 1.7/5

Left Out: -560.684 $\pm$ 104.207 χ^2 /NDF:61.8/24

Right Out: 1217.925 $\pm$ 620.004 χ^2 /NDF: 7.3/8

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

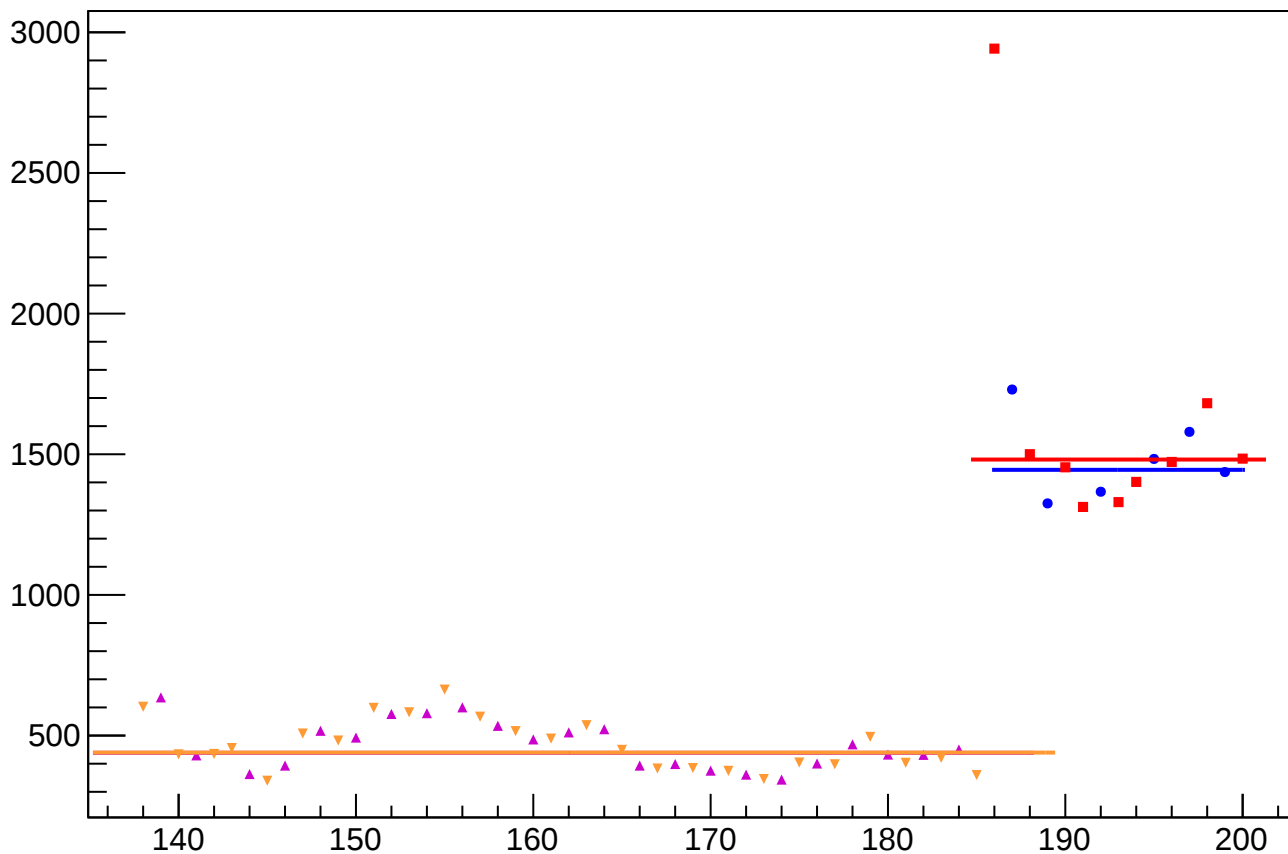
Right: 103.383 $\pm$ 473.018 χ^2 /NDF: 16.7/14

In: 33.076 $\pm$ 105.591 χ^2 /NDF:31.1/28

Out: -511.820 $\pm$ 102.766 χ^2 /NDF:77.0/33

All: -246.758 $\pm$ 73.645 χ^2 /NDF: 121.8/62

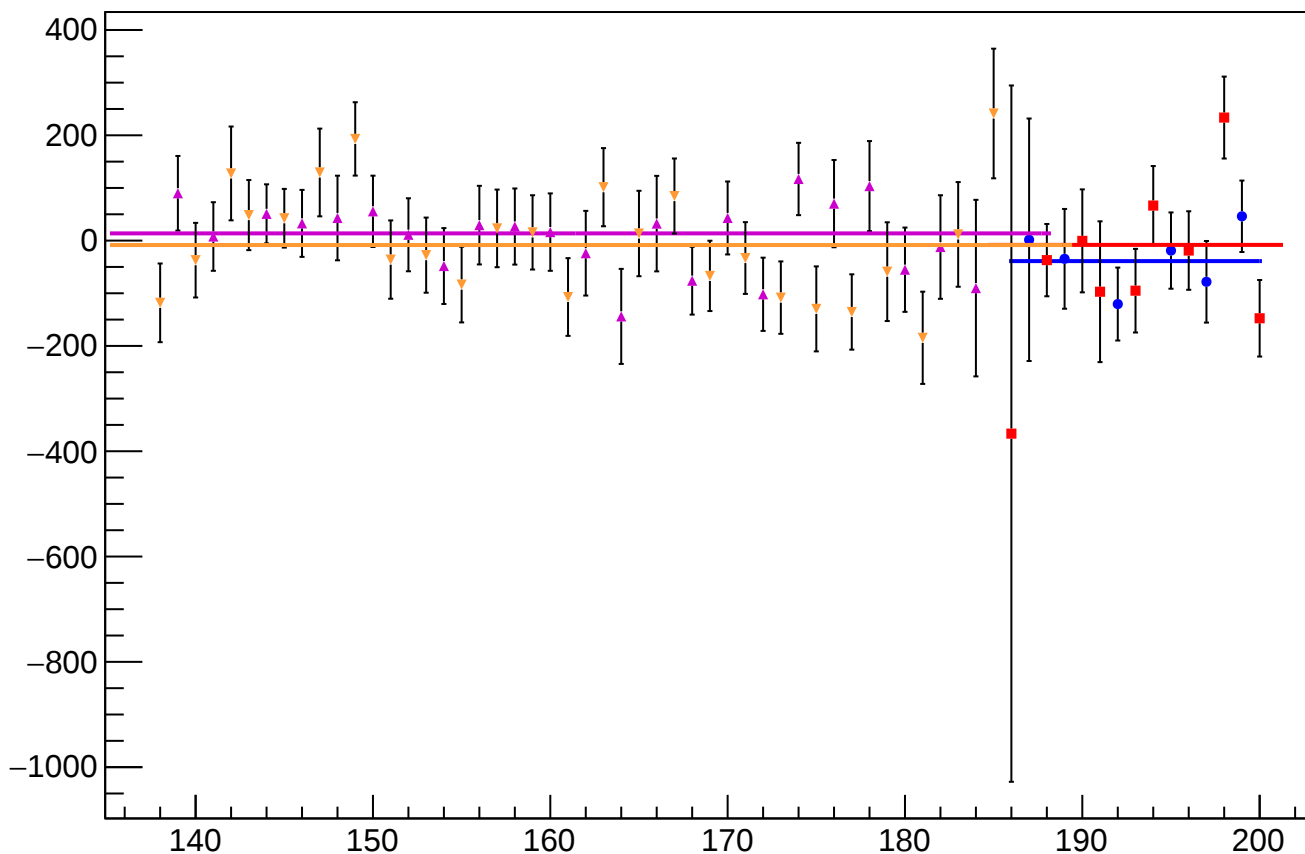
asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1444.655+/-0.517 χ^2/NDF : 33057.4/5
 Left Out: 439.527+/-0.074 χ^2/NDF :1163352.8/24
 Right Out: 1481.240+/-0.438 χ^2/NDF : 239841.8/8
 Left In: 438.548+/-0.075 χ^2/NDF :1013071.4/22

Left: 439.049+/-0.053 χ^2/NDF : 2176510.4/47
 Right: 1465.950+/-0.334 χ^2/NDF : 275809.8/14
 In: 459.501+/-0.075 χ^2/NDF :4748988.0/28
 Out: 468.146+/-0.073 χ^2/NDF :6894043.0/33
 All: 463.941+/-0.052 χ^2/NDF : 11649915.9/62

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -38.918 ± 33.093 χ^2/NDF : 3.3/5

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: -8.132 ± 28.338 χ^2/NDF : 16.5/8

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

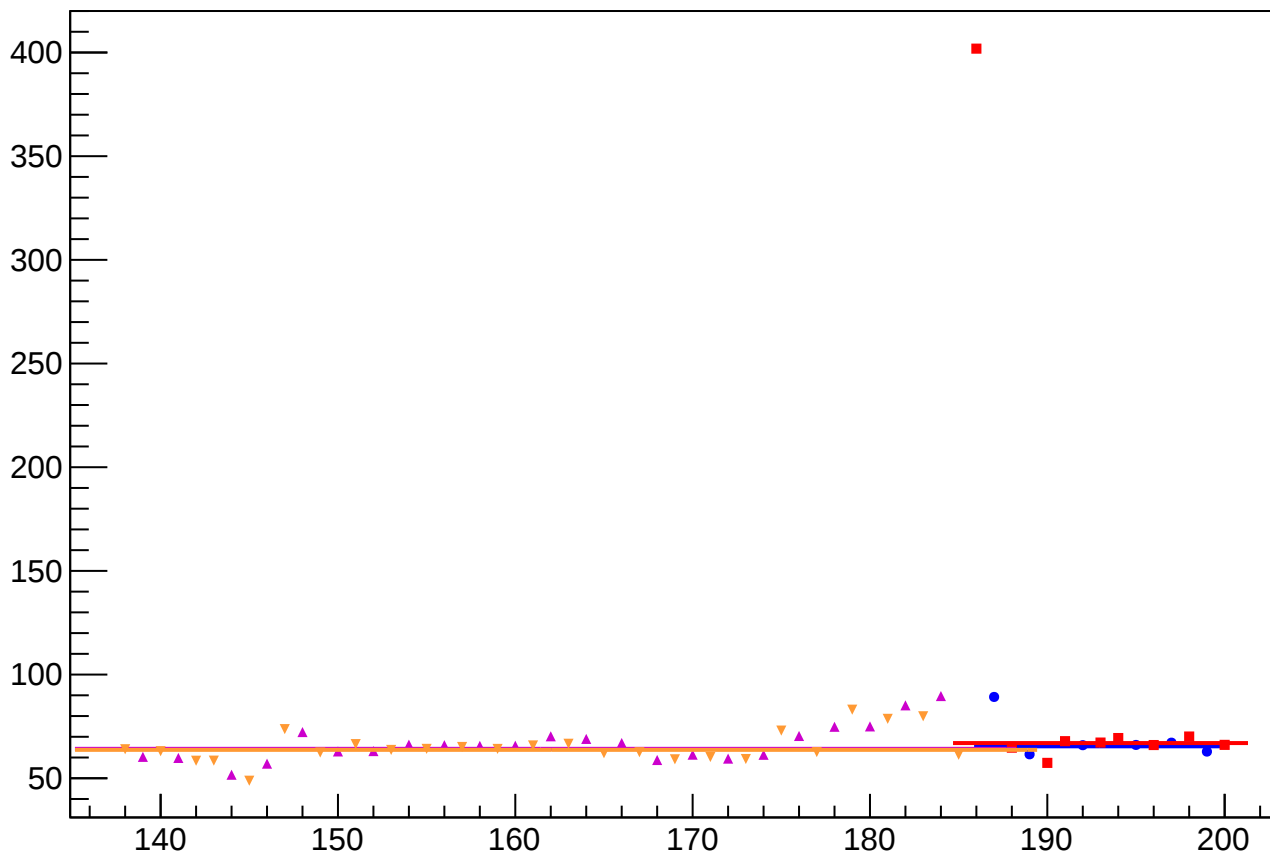
Right: -21.157 ± 21.525 χ^2/NDF : 20.3/14

In: 4.275 ± 14.020 χ^2/NDF : 21.7/28

Out: -8.354 ± 13.212 χ^2/NDF : 58.1/33

All: -2.414 ± 9.615 χ^2/NDF : 80.2/62

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 65.401 $\pm$ 0.023 χ^2 /NDF: 28836.0/5

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 66.970 $\pm$ 0.020 χ^2 /NDF: 540357.8/8

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

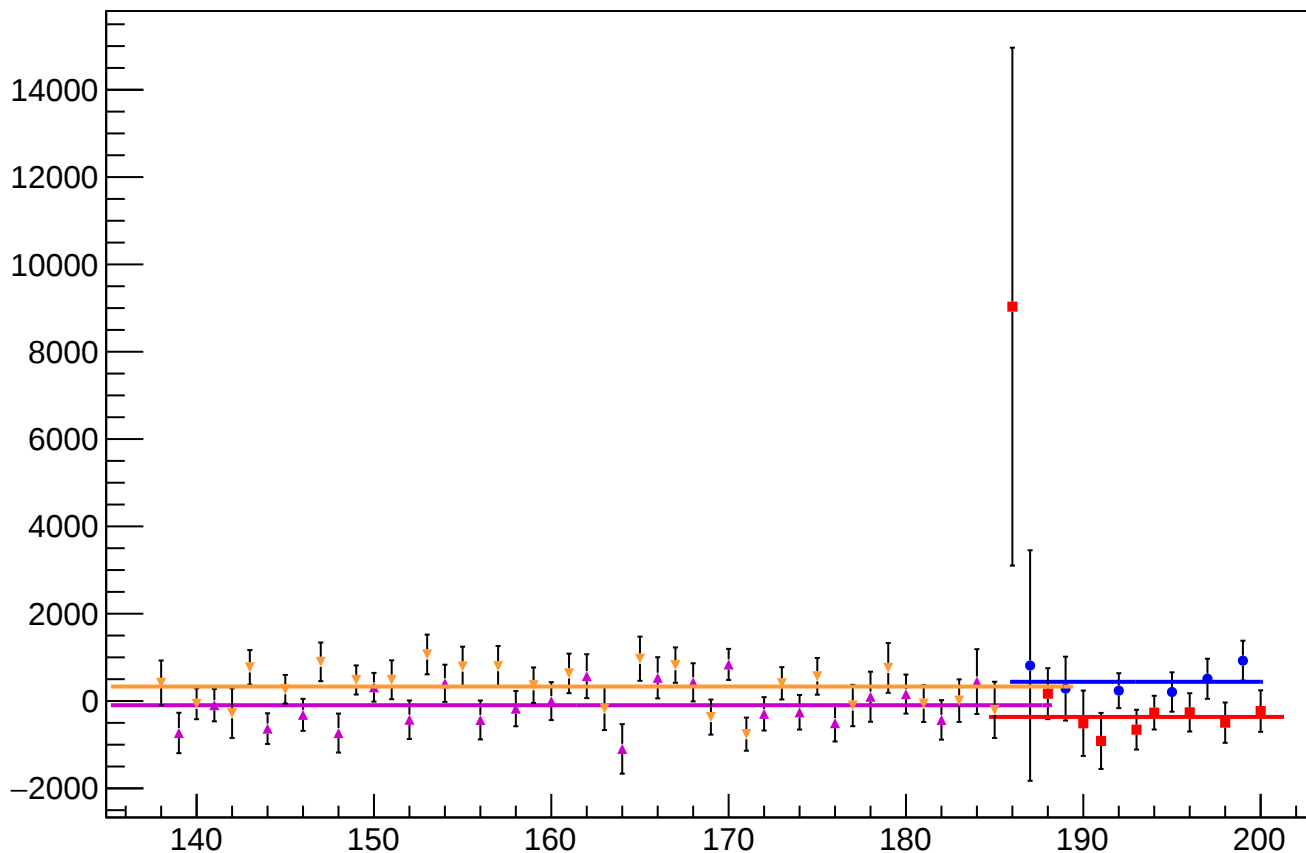
Right: 66.307 $\pm$ 0.015 χ^2 /NDF: 571788.3/14

In: 64.407 $\pm$ 0.010 χ^2 /NDF: 460707.7/28

Out: 64.408 $\pm$ 0.009 χ^2 /NDF: 1009695.6/33

All: 64.407 $\pm$ 0.007 χ^2 /NDF: 1470403.3/62

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 440.105 $\pm$ 209.800 χ^2 /NDF: 1.7/5

Left Out: 331.739 $\pm$ 86.071 χ^2 /NDF:29.9/24

Right Out: -363.842 $\pm$ 174.052 χ^2 /NDF: 4.8/8

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

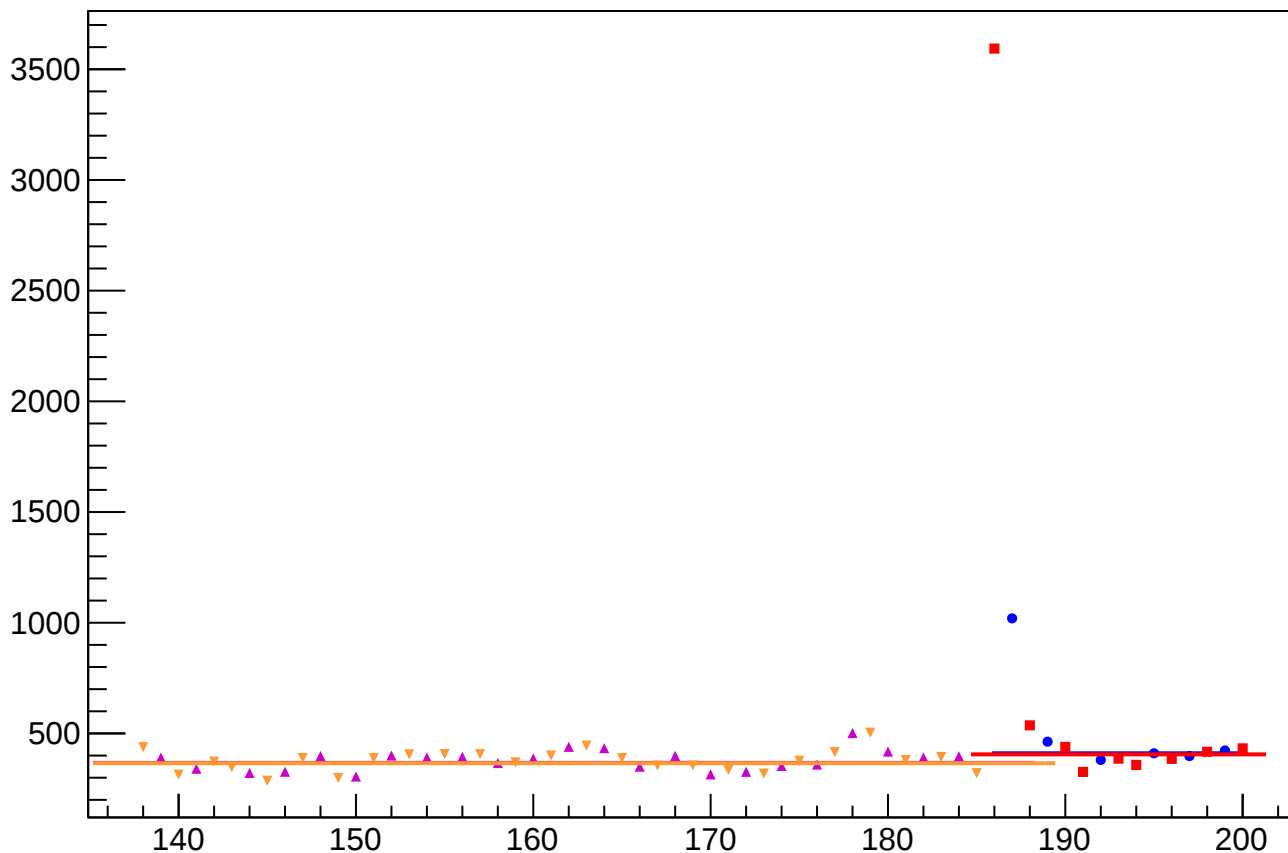
Right: -36.097 $\pm$ 133.955 χ^2 /NDF: 15.2/14

In: -14.697 $\pm$ 81.664 χ^2 /NDF:36.0/28

Out: 195.062 $\pm$ 77.153 χ^2 /NDF:47.5/33

All: 96.136 $\pm$ 56.082 χ^2 /NDF: 87.0/62

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 410.277+/-0.148 χ^2/NDF : 131203.1/5

Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24

Right Out: 405.426+/-0.123 χ^2/NDF : 759755.6/8

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

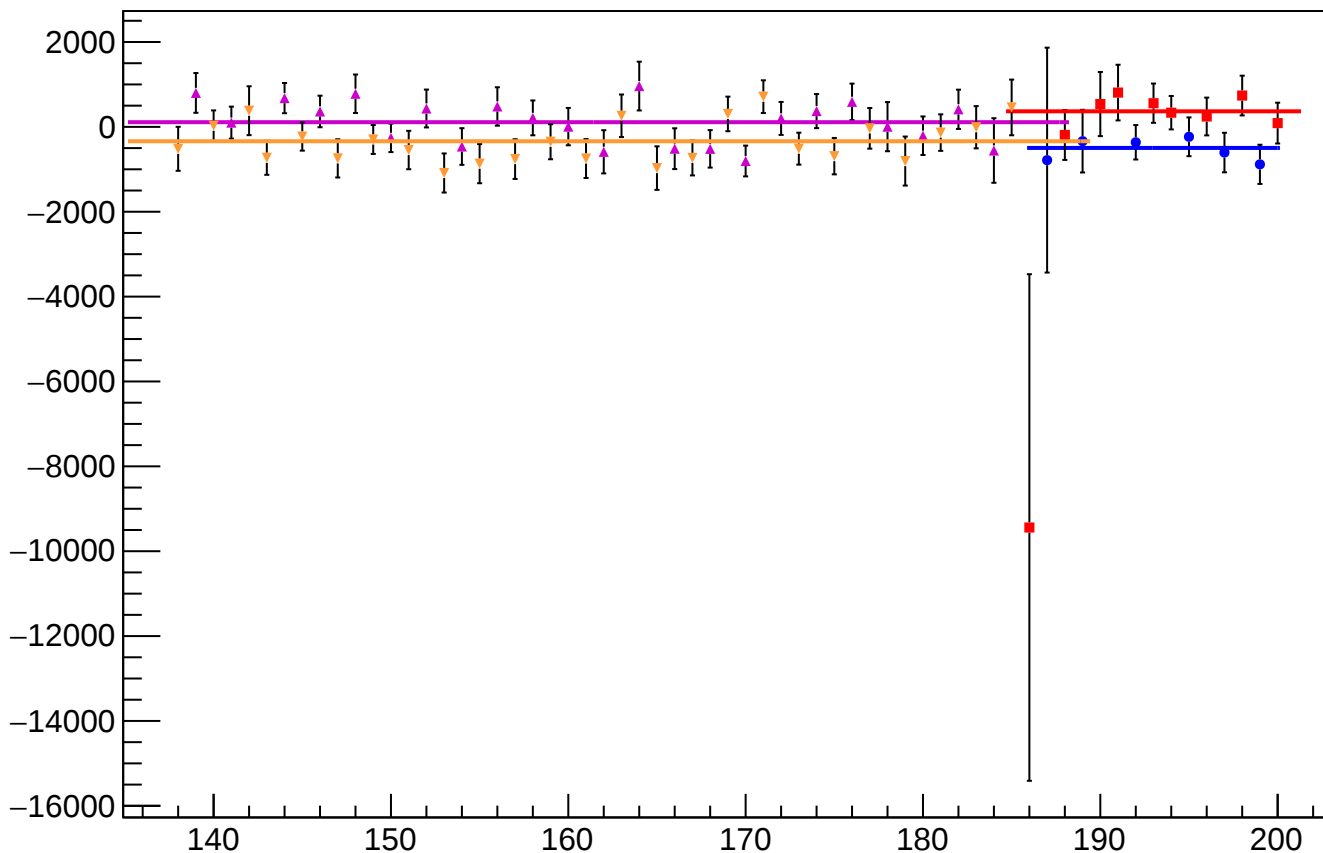
Right: 407.404+/-0.095 χ^2/NDF : 891591.9/14

In: 373.493+/-0.058 χ^2/NDF : 681741.9/28

Out: 373.229+/-0.055 χ^2/NDF : 1463386.7/33

All: 373.353+/-0.040 χ^2/NDF : 2145139.7/62

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -496.194 $\pm$ 212.565 χ^2 /NDF: 1.3/5

Left Out: -338.528 $\pm$ 87.450 χ^2 /NDF:28.2/24

Right Out: 366.660 $\pm$ 176.630 χ^2 /NDF: 5.3/8

Left In: 110.341 $\pm$ 90.084 χ^2 /NDF:29.2/22

Left: -120.751 $\pm$ 62.747 χ^2 /NDF: 70.2/47

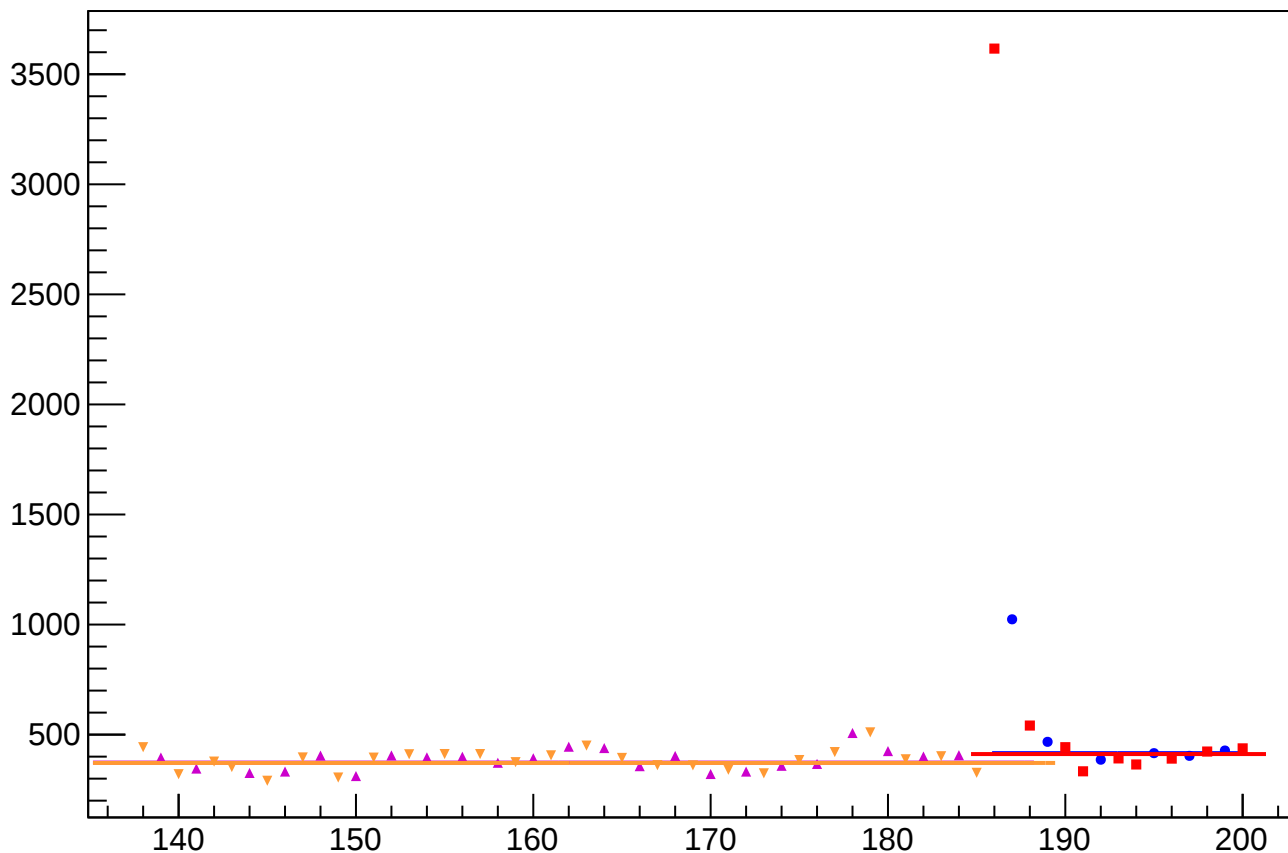
Right: 14.228 $\pm$ 135.851 χ^2 /NDF: 16.3/14

In: 17.992 $\pm$ 82.943 χ^2 /NDF:37.4/28

Out: -199.698 $\pm$ 78.371 χ^2 /NDF:46.3/33

All: -97.018 $\pm$ 56.964 χ^2 /NDF: 87.4/62

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 415.808+/-0.150 χ^2/NDF : 128408.1/5

Left Out: 371.356+/-0.062 χ^2/NDF : 604070.6/24

Right Out: 411.691+/-0.125 χ^2/NDF : 749391.4/8

Left In: 372.938+/-0.064 χ^2/NDF : 467340.9/22

Left: 372.123+/-0.044 χ^2/NDF : 1071729.1/47

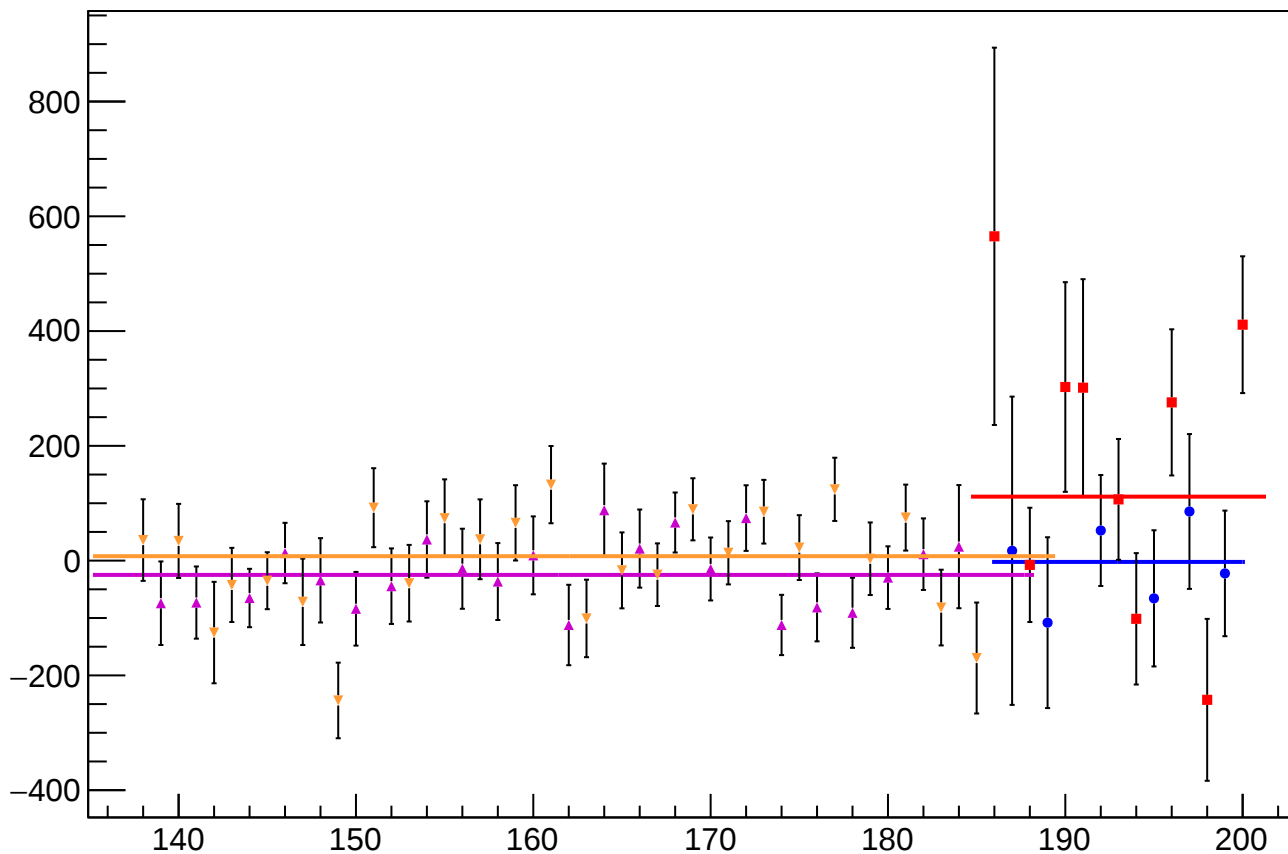
Right: 413.373+/-0.096 χ^2/NDF : 878243.4/14

In: 379.465+/-0.059 χ^2/NDF : 664714.2/28

Out: 379.297+/-0.055 χ^2/NDF : 1437223.8/33

All: 379.376+/-0.040 χ^2/NDF : 2101942.3/62

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -2.256 ± 51.607 $\chi^2/\text{NDF}: 1.6/5$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 111.495 ± 43.985 $\chi^2/\text{NDF}: 23.2/8$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

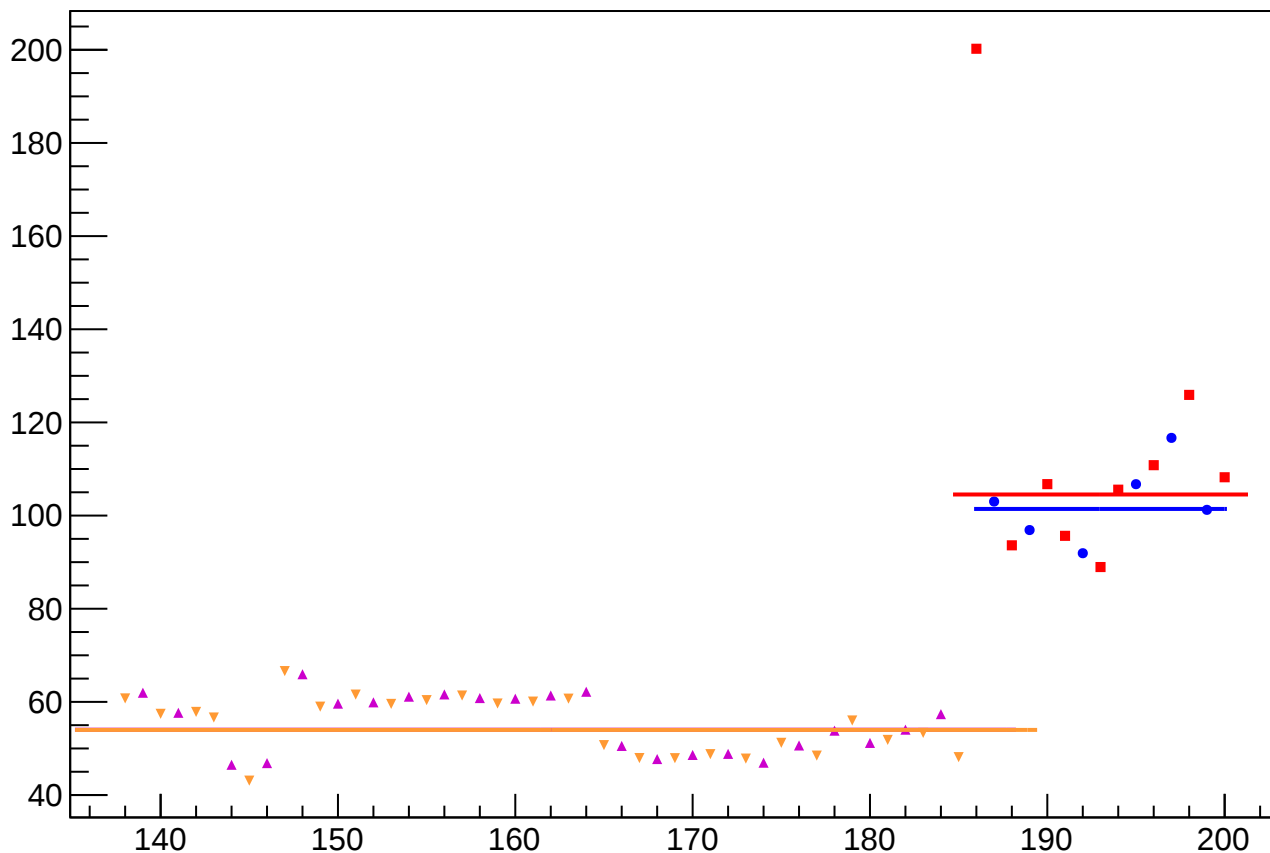
Right: 63.631 ± 33.476 $\chi^2/\text{NDF}: 27.6/14$

In: -23.531 ± 12.632 $\chi^2/\text{NDF}: 21.5/28$

Out: 15.657 ± 12.162 $\chi^2/\text{NDF}: 73.7/33$

All: -3.194 ± 8.761 $\chi^2/\text{NDF}: 100.2/62$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 101.425 $\pm$ 0.036 χ^2 /NDF: 50869.2/5

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 104.528 $\pm$ 0.031 χ^2 /NDF: 294916.6/8

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

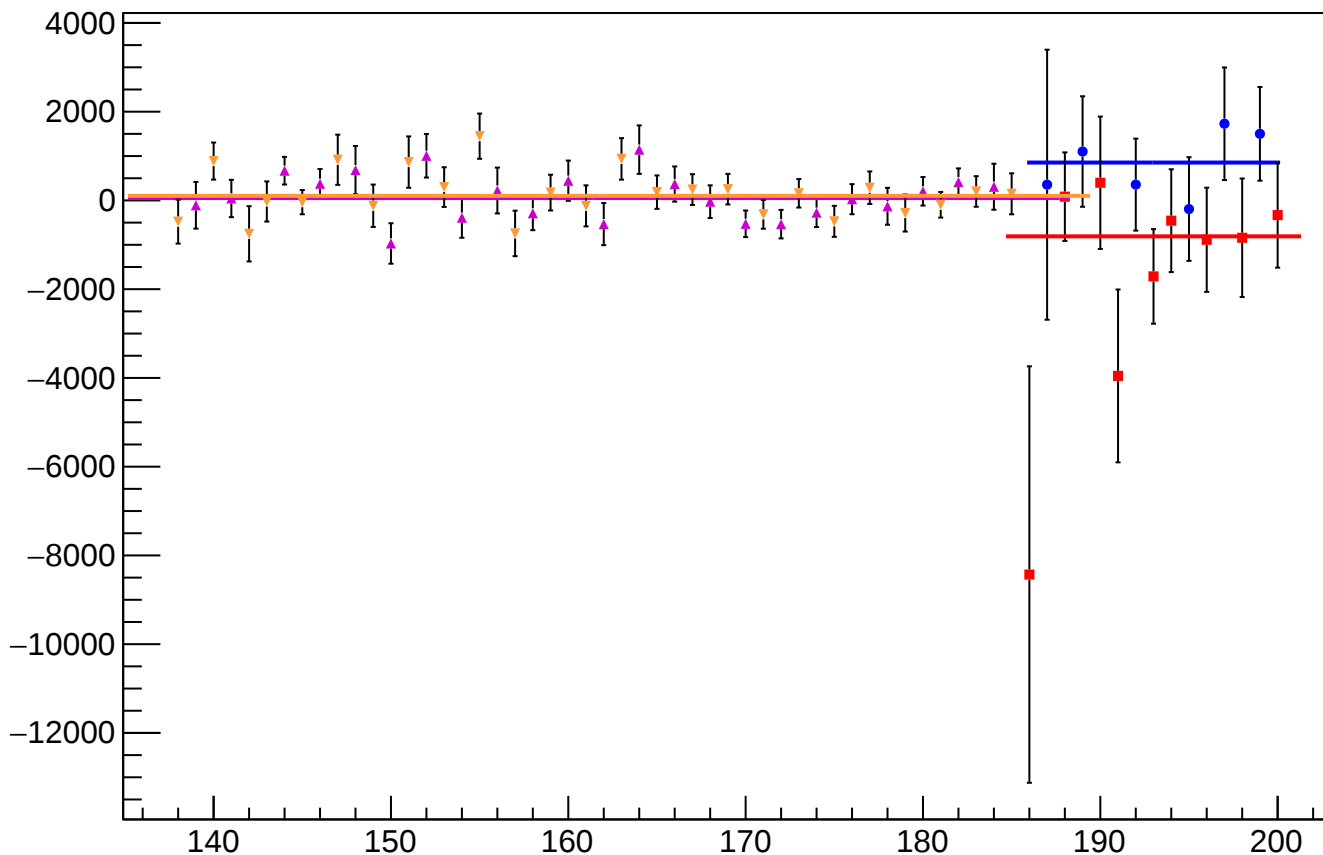
Right: 103.222 $\pm$ 0.024 χ^2 /NDF: 349972.9/14

In: 56.868 $\pm$ 0.009 χ^2 /NDF: 2080651.1/28

Out: 57.848 $\pm$ 0.009 χ^2 /NDF: 3192877.2/33

All: 57.376 $\pm$ 0.006 χ^2 /NDF: 5279780.1/62

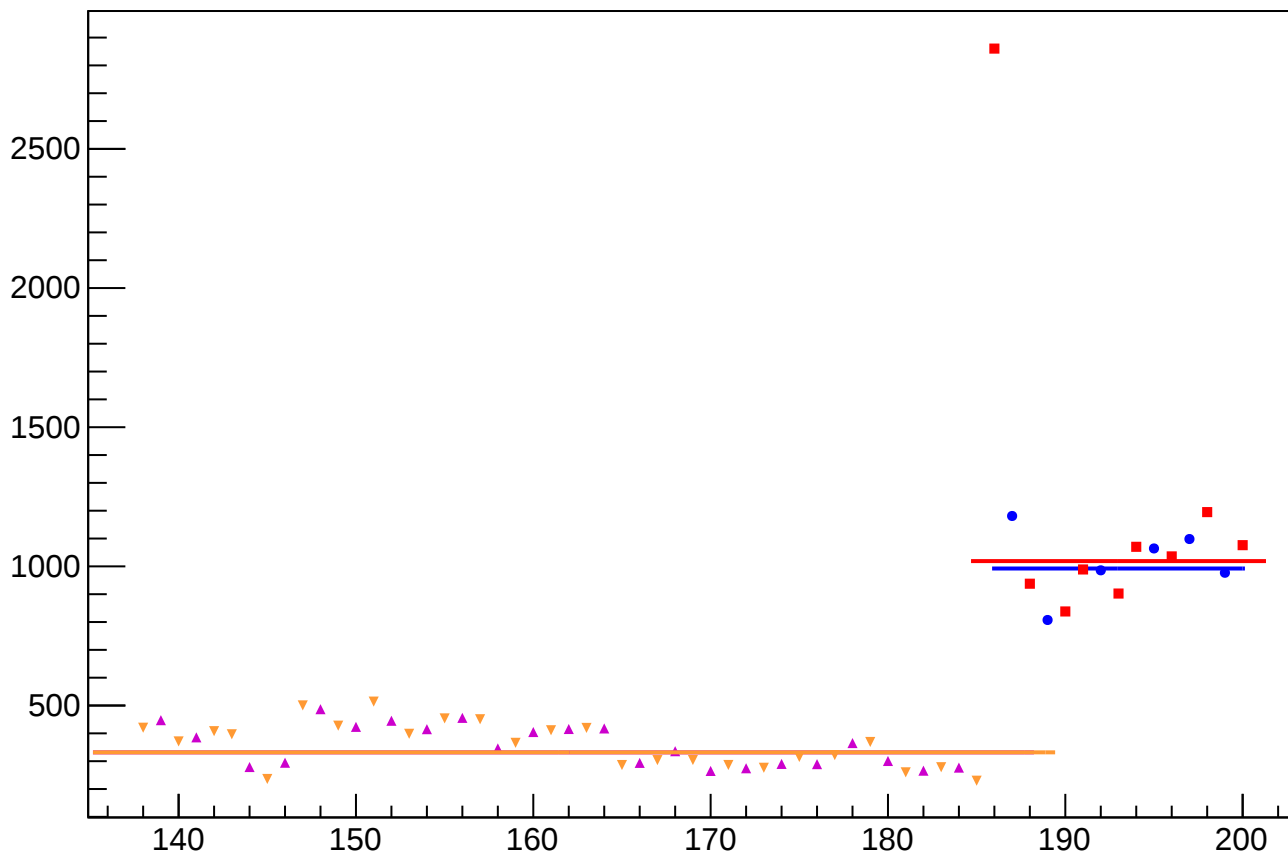
asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 853.614 $\pm$ 504.123 χ^2 /NDF: 2.0/5
 Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24
 Right Out: -809.212 $\pm$ 430.850 χ^2 /NDF: 7.7/8
 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: -107.317 $\pm$ 327.528 χ^2 /NDF: 15.9/14
 In: 73.727 $\pm$ 80.168 χ^2 /NDF:38.5/28
 Out: 73.821 $\pm$ 78.032 χ^2 /NDF:43.0/33
 All: 73.775 $\pm$ 55.917 χ^2 /NDF: 81.5/62

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 992.301+/-0.356 χ^2/NDF : 73879.8/5

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 1018.946+/-0.305 χ^2/NDF : 418815.1/8

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

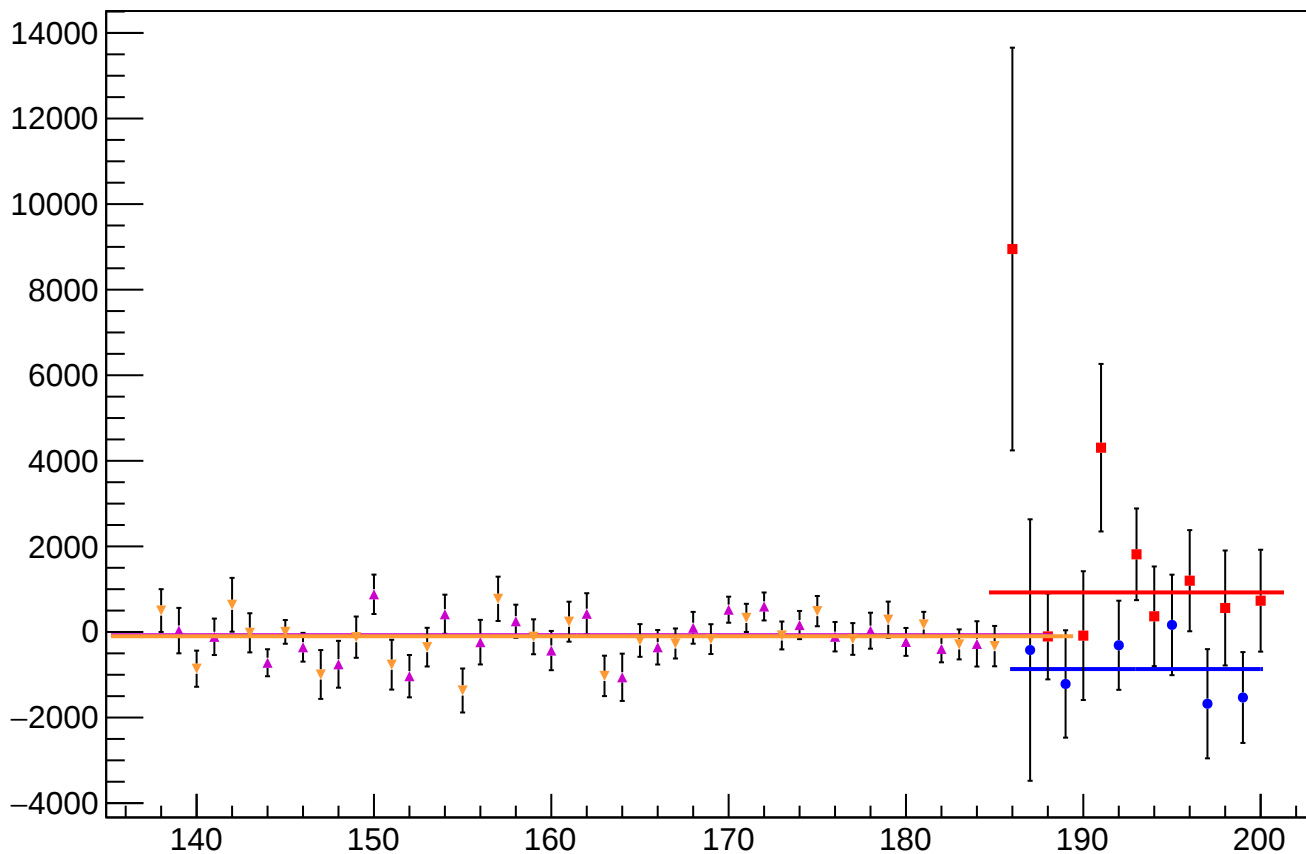
Right: 1007.699+/-0.232 χ^2/NDF : 495923.7/14

In: 348.372+/-0.057 χ^2/NDF : 4724854.9/28

Out: 354.311+/-0.055 χ^2/NDF : 7051268.0/33

All: 351.422+/-0.040 χ^2/NDF : 11781758.0/62

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -866.887 $\pm$ 506.928 χ^2/NDF : 2.0/5

Left Out: -99.785 $\pm$ 80.428 χ^2/NDF :30.7/24

Right Out: 924.177 $\pm$ 433.319 χ^2/NDF : 8.5/8

Left In: -75.579 $\pm$ 82.319 χ^2/NDF :32.1/22

Left: -87.963 $\pm$ 57.528 χ^2/NDF : 62.8/47

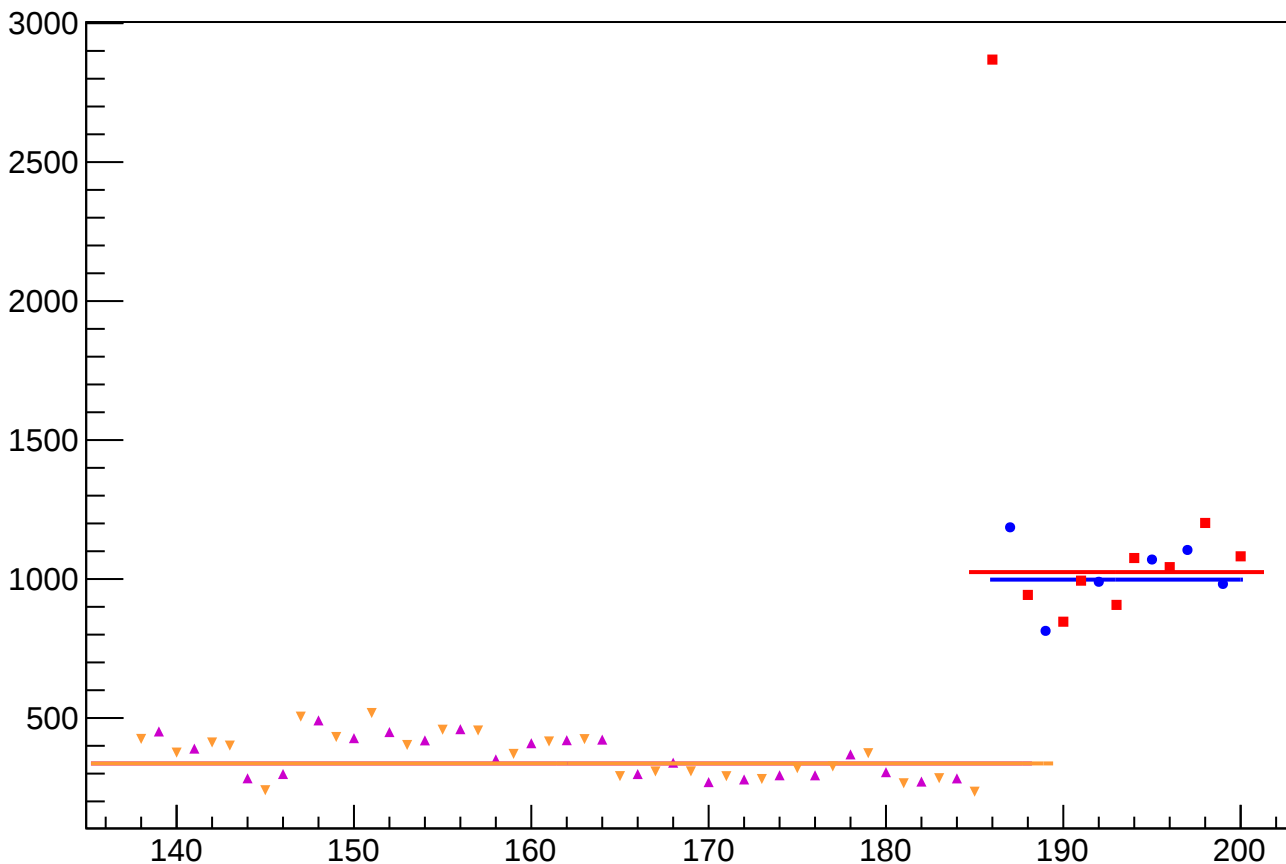
Right: 168.006 $\pm$ 329.382 χ^2/NDF : 17.6/14

In: -95.910 $\pm$ 81.254 χ^2/NDF :36.4/28

Out: -65.684 $\pm$ 79.077 χ^2/NDF :44.5/33

All: -80.386 $\pm$ 56.670 χ^2/NDF : 81.0/62

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 997.886 $\pm$ 0.358 χ^2 /NDF: 72882.3/5

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF: 1665919.4/24

Right Out: 1024.969 $\pm$ 0.306 χ^2 /NDF: 416710.5/8

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

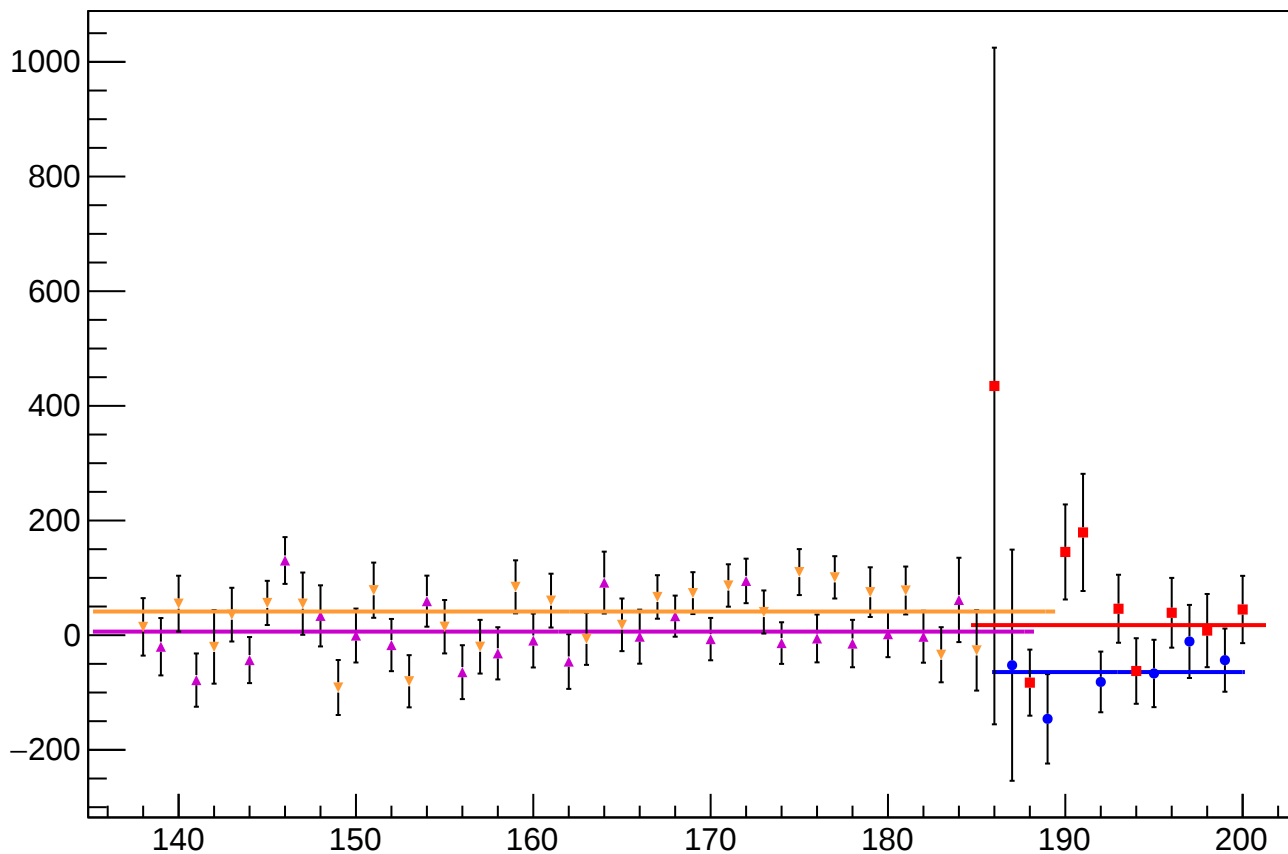
Right: 1013.535 $\pm$ 0.233 χ^2 /NDF: 492891.2/14

In: 353.433 $\pm$ 0.057 χ^2 /NDF: 4659541.9/28

Out: 359.484 $\pm$ 0.056 χ^2 /NDF: 6962403.3/33

All: 356.541 $\pm$ 0.040 χ^2 /NDF: 11627640.4/62

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -64.313 ± 26.619 $\chi^2/\text{NDF}: 2.0/5$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: 17.585 ± 22.697 $\chi^2/\text{NDF}: 11.0/8$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

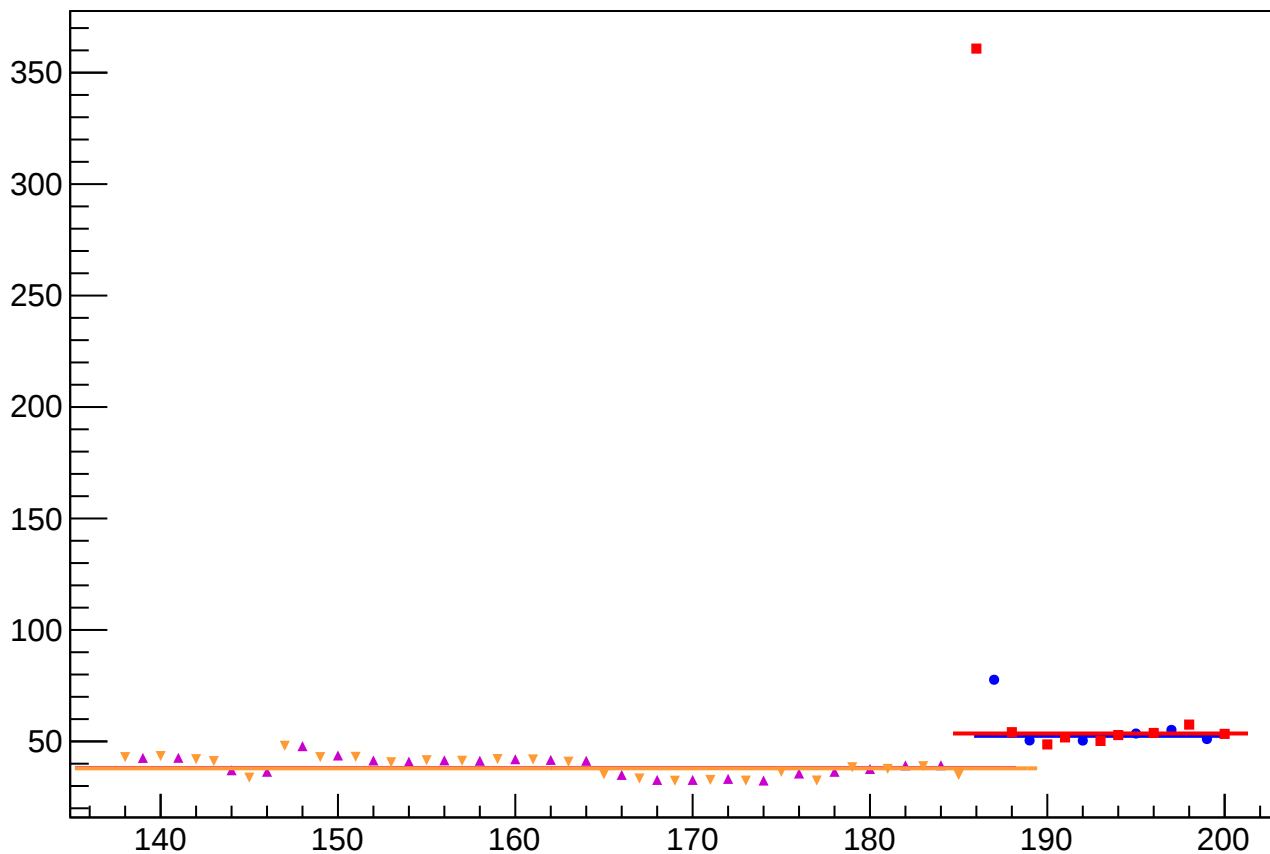
Right: -16.891 ± 17.271 $\chi^2/\text{NDF}: 18.5/14$

In: -1.239 ± 8.674 $\chi^2/\text{NDF}: 38.6/28$

Out: 38.132 ± 8.277 $\chi^2/\text{NDF}: 46.3/33$

All: 19.367 ± 5.988 $\chi^2/\text{NDF}: 95.7/62$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 52.499 $\pm$ 0.019 χ^2 /NDF: 41296.3/5

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 53.552 $\pm$ 0.016 χ^2 /NDF: 564441.7/8

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

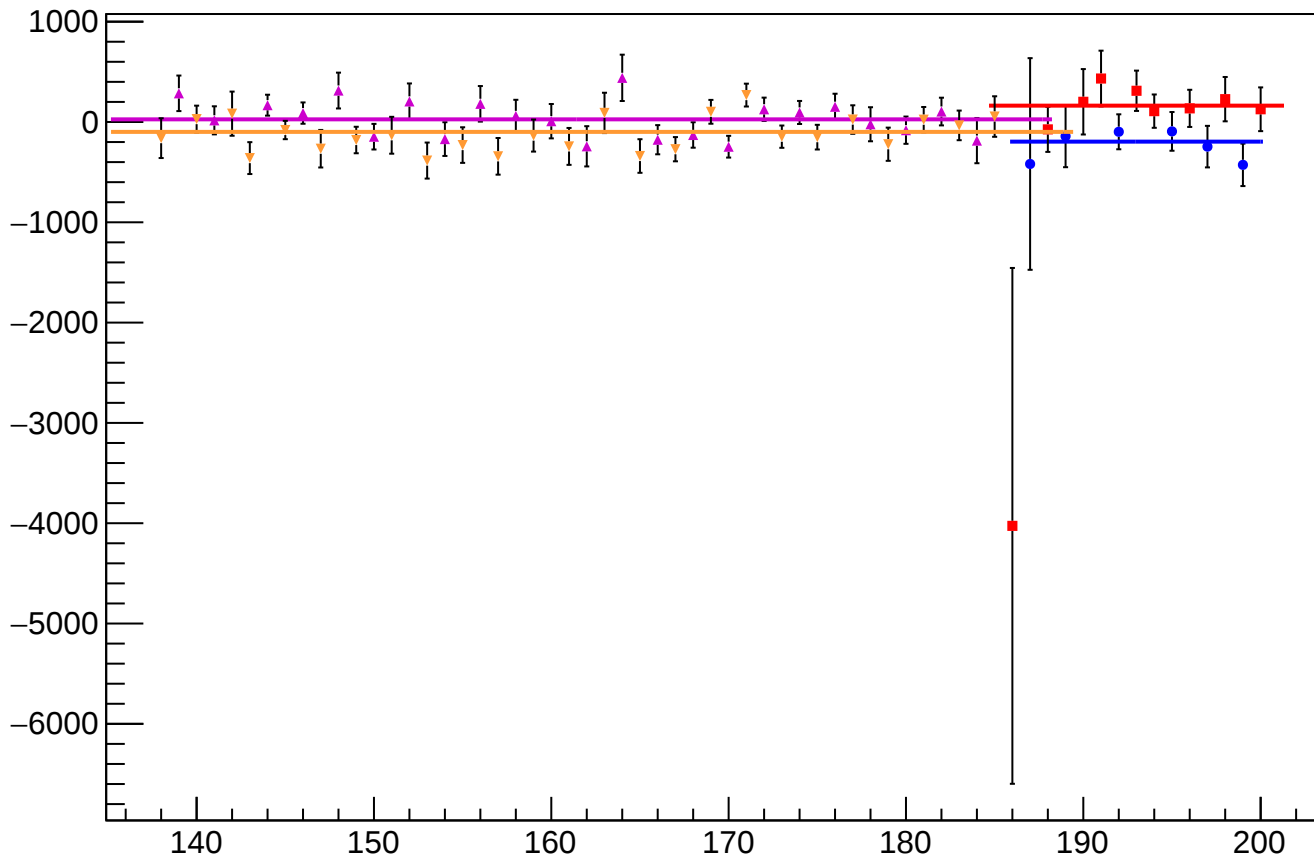
Right: 53.109 $\pm$ 0.012 χ^2 /NDF: 607552.9/14

In: 39.617 $\pm$ 0.006 χ^2 /NDF: 961590.7/28

Out: 40.003 $\pm$ 0.006 χ^2 /NDF: 1873564.2/33

All: 39.819 $\pm$ 0.004 χ^2 /NDF: 2837226.8/62

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -195.886 ± 92.528 χ^2/NDF : 1.9/5

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 162.866 ± 75.813 χ^2/NDF : 5.5/8

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

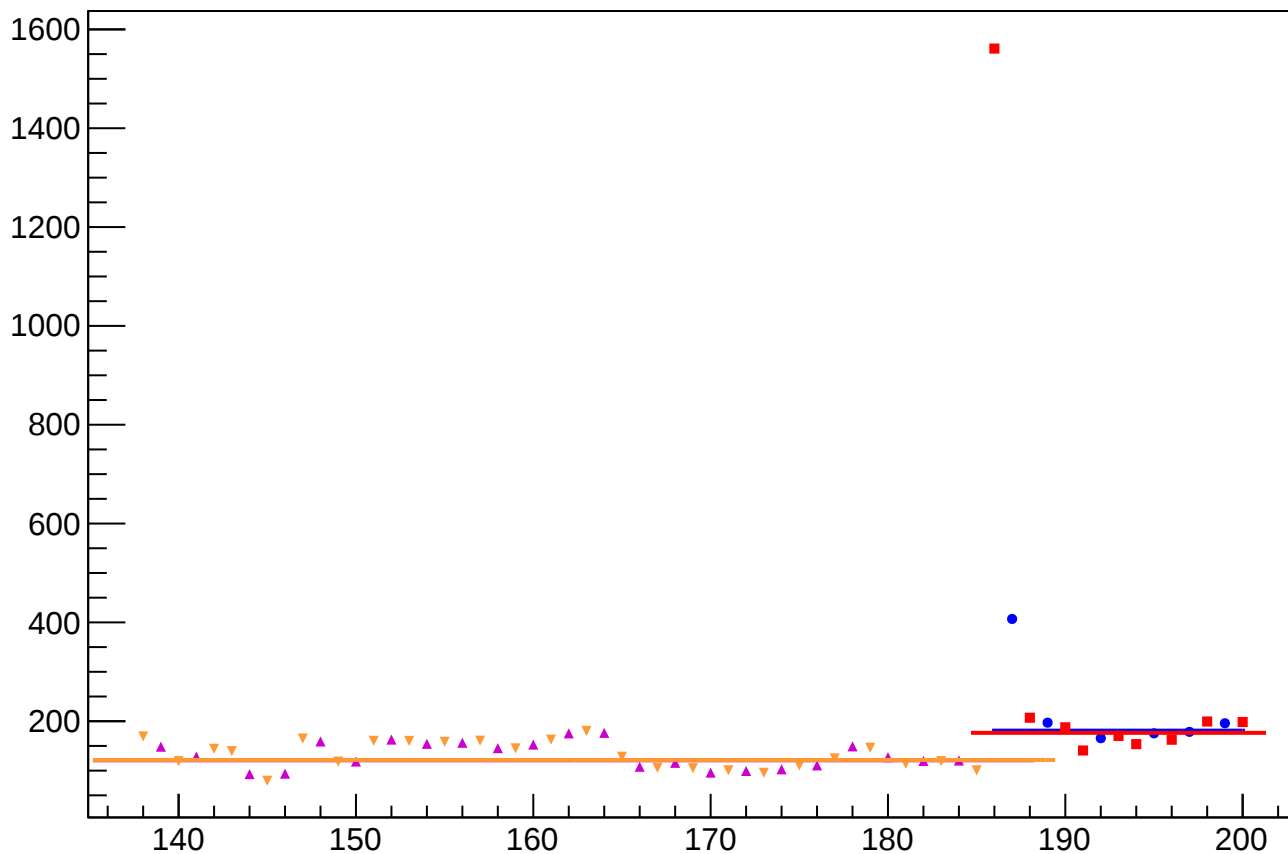
Right: 18.763 ± 58.643 χ^2/NDF : 16.4/14

In: 5.507 ± 28.258 χ^2/NDF : 37.8/28

Out: -65.157 ± 27.164 χ^2/NDF : 48.6/33

All: -31.220 ± 19.583 χ^2/NDF : 89.7/62

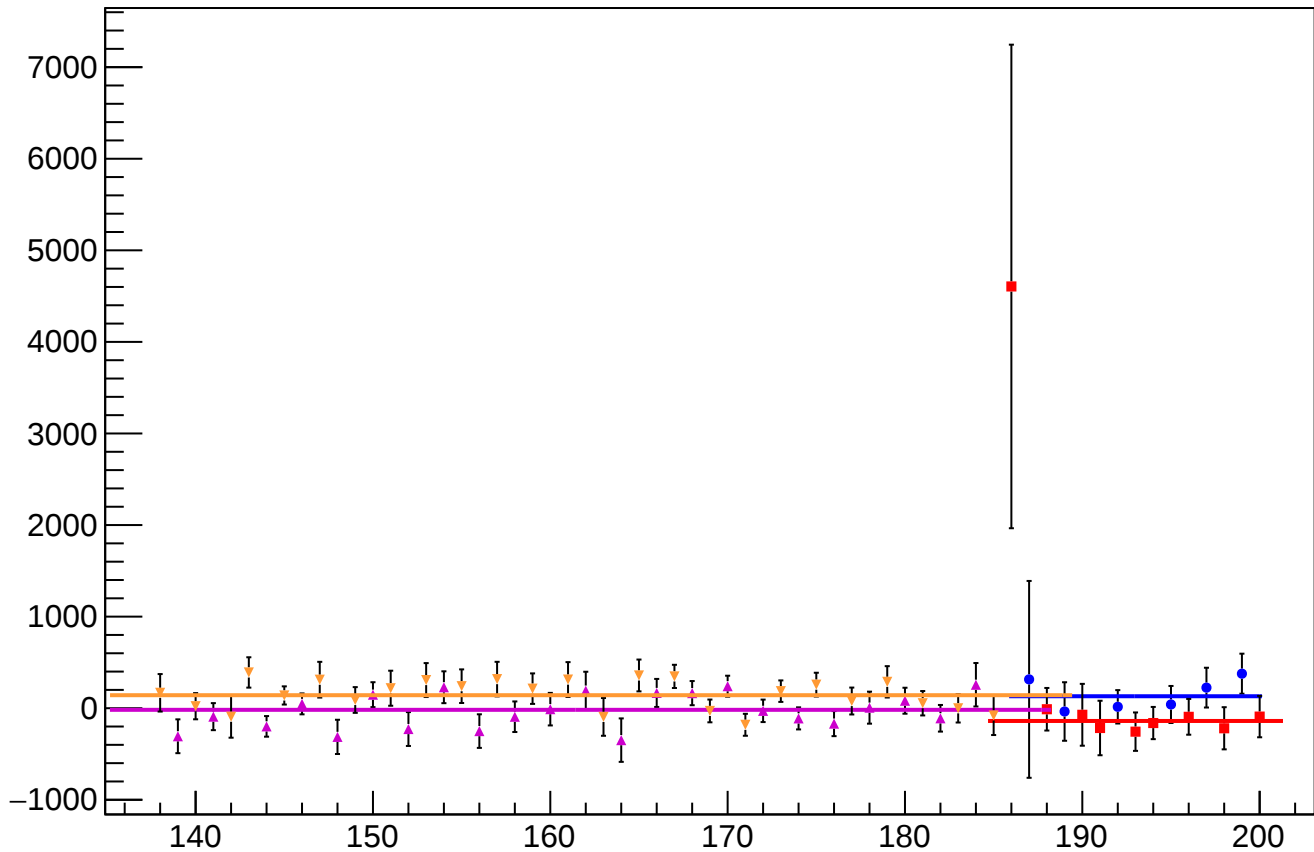
asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 180.909+/-0.065 χ^2/NDF : 124522.6/5
 Left Out: 121.592+/-0.021 χ^2/NDF : 1711423.9/24
 Right Out: 176.482+/-0.054 χ^2/NDF : 745363.2/8
 Left In: 120.927+/-0.021 χ^2/NDF : 1382861.4/22

Left: 121.266+/-0.015 χ^2/NDF : 3094797.5/47
 Right: 178.260+/-0.041 χ^2/NDF : 872624.2/14
 In: 126.521+/-0.020 χ^2/NDF : 2269461.8/28
 Out: 128.639+/-0.019 χ^2/NDF : 3370606.7/33
 All: 127.622+/-0.014 χ^2/NDF : 5645904.5/62

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 130.643 $\pm$ 96.498 χ^2 /NDF: 2.4/5

Left Out: 142.014 $\pm$ 30.574 χ^2 /NDF:26.9/24

Right Out: -139.316 $\pm$ 79.446 χ^2 /NDF: 4.2/8

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

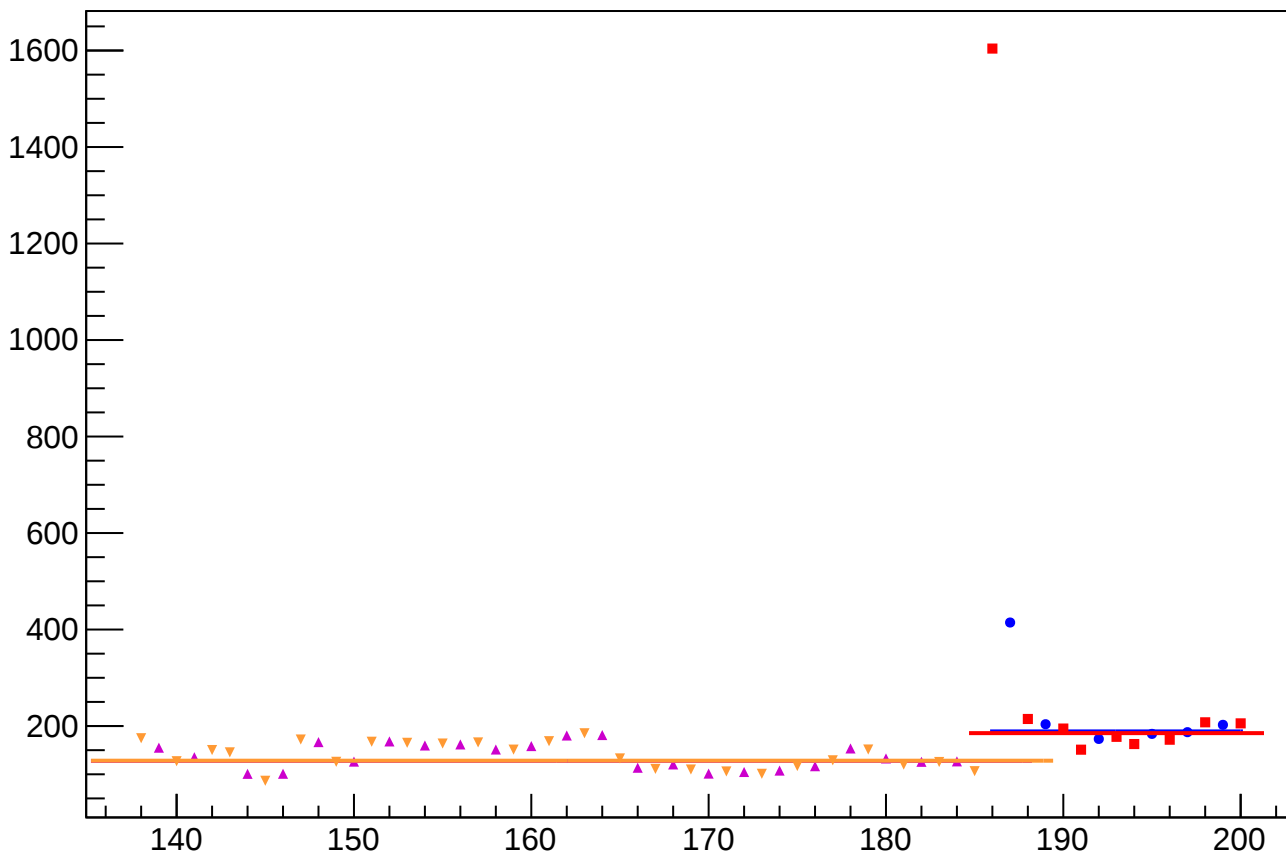
Right: -30.258 $\pm$ 61.334 χ^2 /NDF: 11.2/14

In: -3.635 $\pm$ 29.694 χ^2 /NDF:34.6/28

Out: 105.723 $\pm$ 28.534 χ^2 /NDF:42.0/33

All: 53.222 $\pm$ 20.575 χ^2 /NDF: 83.7/62

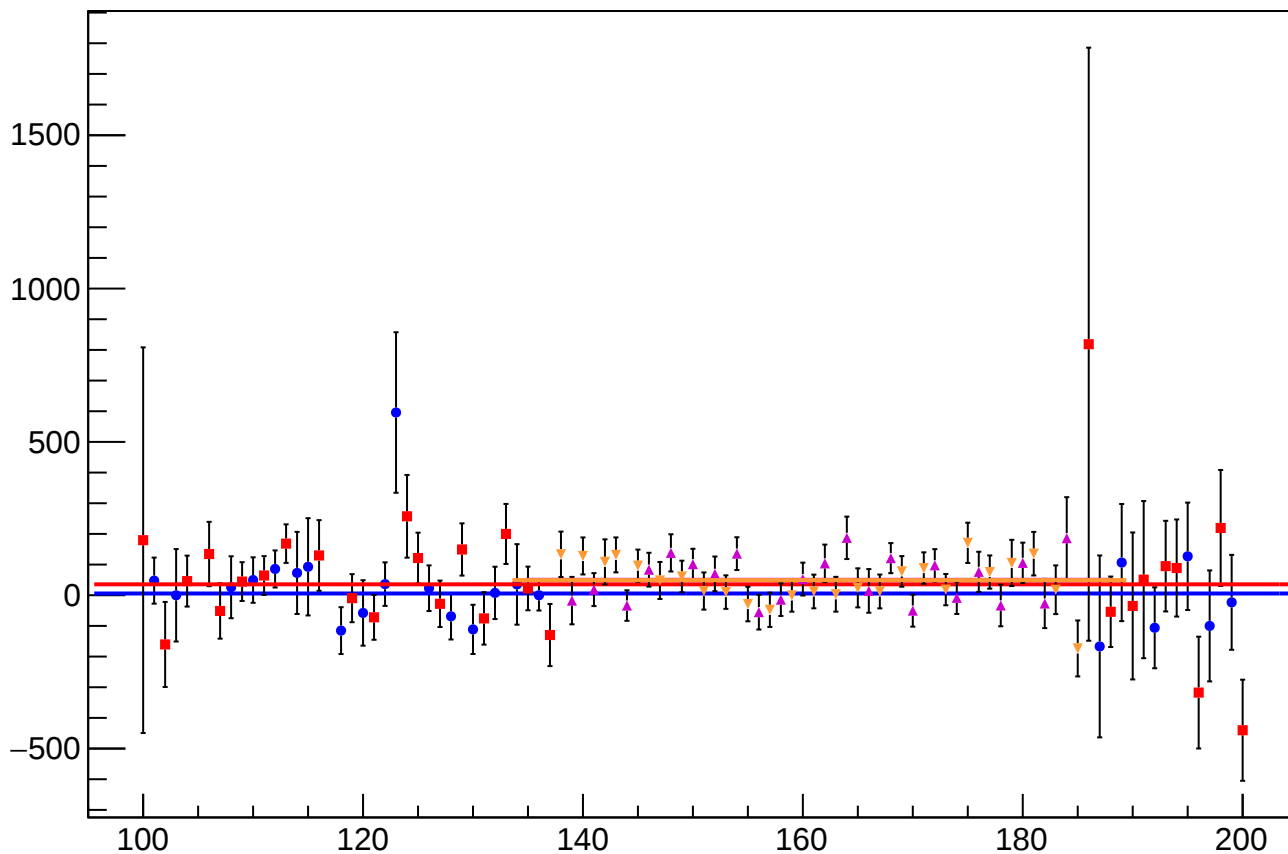
asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 188.857 $\pm$ 0.068 χ^2 /NDF: 116329.3/5
 Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF: 1532922.0/24
 Right Out: 185.309 $\pm$ 0.056 χ^2 /NDF: 717992.5/8
 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: 186.742 $\pm$ 0.043 χ^2 /NDF: 835933.7/14
 In: 133.350 $\pm$ 0.021 χ^2 /NDF: 2083008.2/28
 Out: 135.545 $\pm$ 0.020 χ^2 /NDF: 3151844.0/33
 All: 134.491 $\pm$ 0.015 χ^2 /NDF: 5240538.1/62

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 5.695+/-19.406 χ^2/NDF : 16.5/22

Left Out: 49.402+/-11.806 χ^2/NDF : 28.1/24

Right Out: 35.631+/-18.471 χ^2/NDF : 39.9/27

Left In: 50.331+/-12.253 χ^2/NDF : 32.2/22

Left: 49.849+/-8.502 χ^2/NDF : 60.3/47

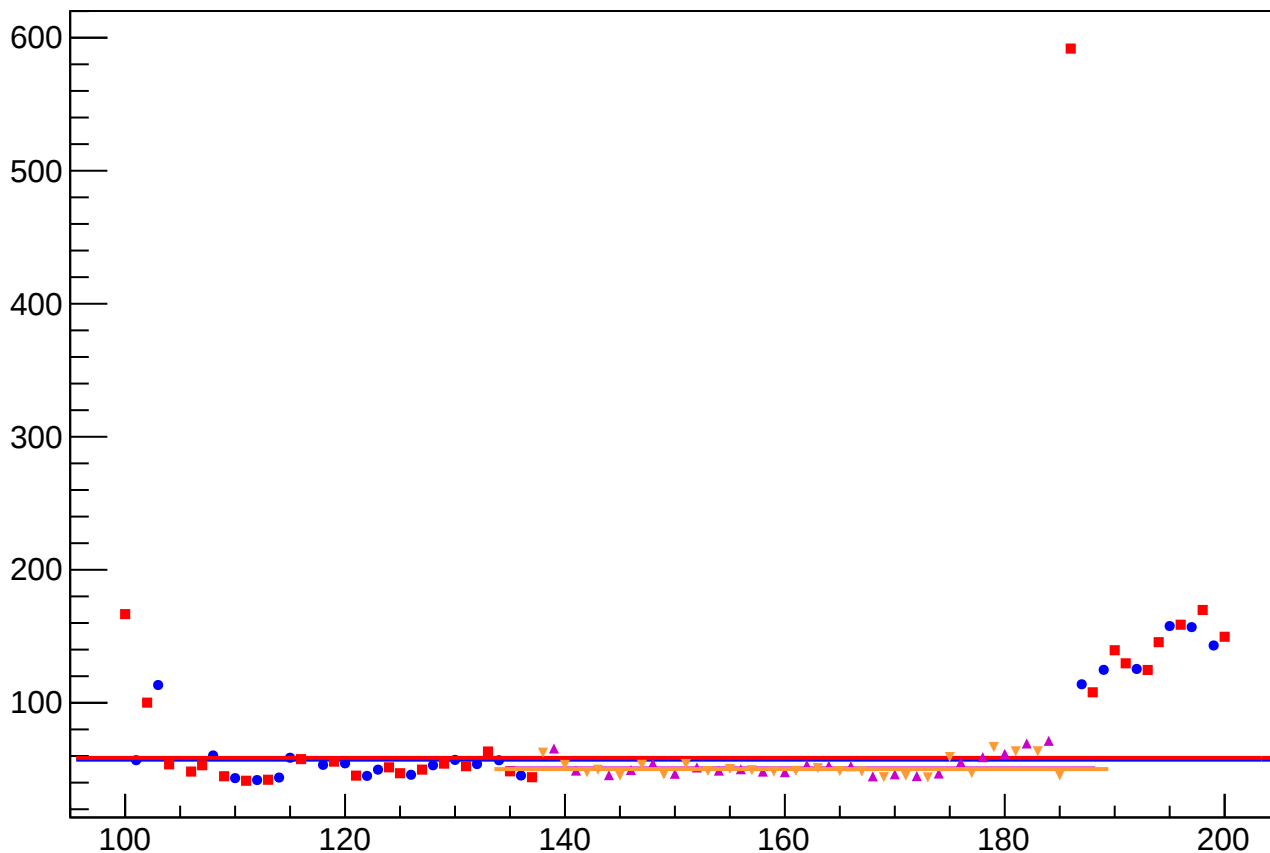
Right: 21.402+/-13.379 χ^2/NDF : 57.7/50

In: 37.608+/-10.361 χ^2/NDF : 52.5/45

Out: 45.408+/-9.947 χ^2/NDF : 68.3/52

All: 41.667+/-7.176 χ^2/NDF : 121.1/98

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 57.282 $\pm$ 0.014 χ^2 /NDF: 3472415.8/22

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 58.599 $\pm$ 0.013 χ^2 /NDF: 5161273.5/27

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

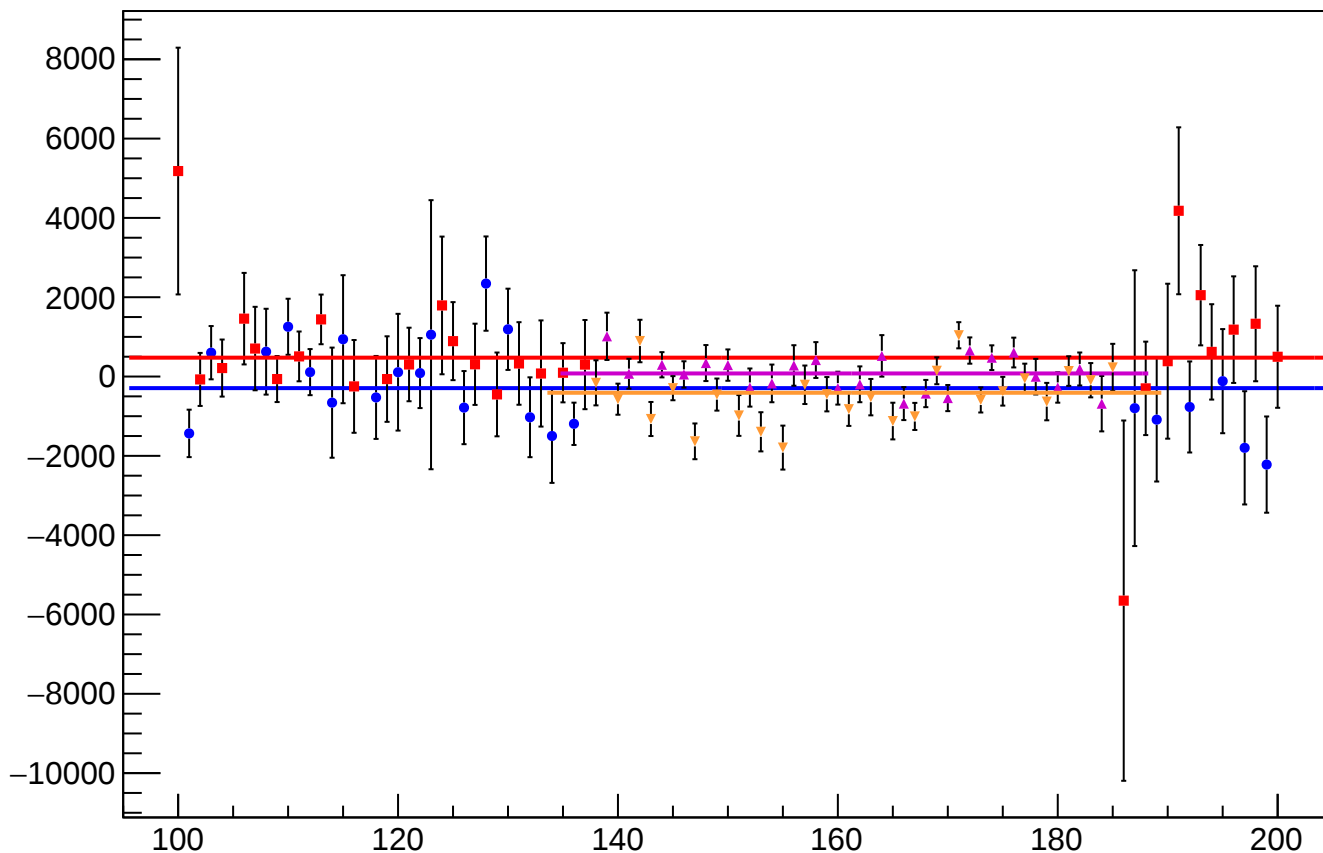
Right: 57.973 $\pm$ 0.009 χ^2 /NDF: 8638526.7/50

In: 52.564 $\pm$ 0.007 χ^2 /NDF: 4107037.8/45

Out: 52.629 $\pm$ 0.007 χ^2 /NDF: 5923320.5/52

All: 52.598 $\pm$ 0.005 χ^2 /NDF: 10030398.7/98

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -292.119 ± 197.898 $\chi^2/\text{NDF}: 28.4/22$

Left Out: -409.164 ± 82.348 $\chi^2/\text{NDF}: 61.7/24$

Right Out: 475.842 ± 188.225 $\chi^2/\text{NDF}: 17.3/27$

Left In: 77.872 ± 84.072 $\chi^2/\text{NDF}: 24.8/22$

Left: -170.691 ± 58.829 $\chi^2/\text{NDF}: 103.6/47$

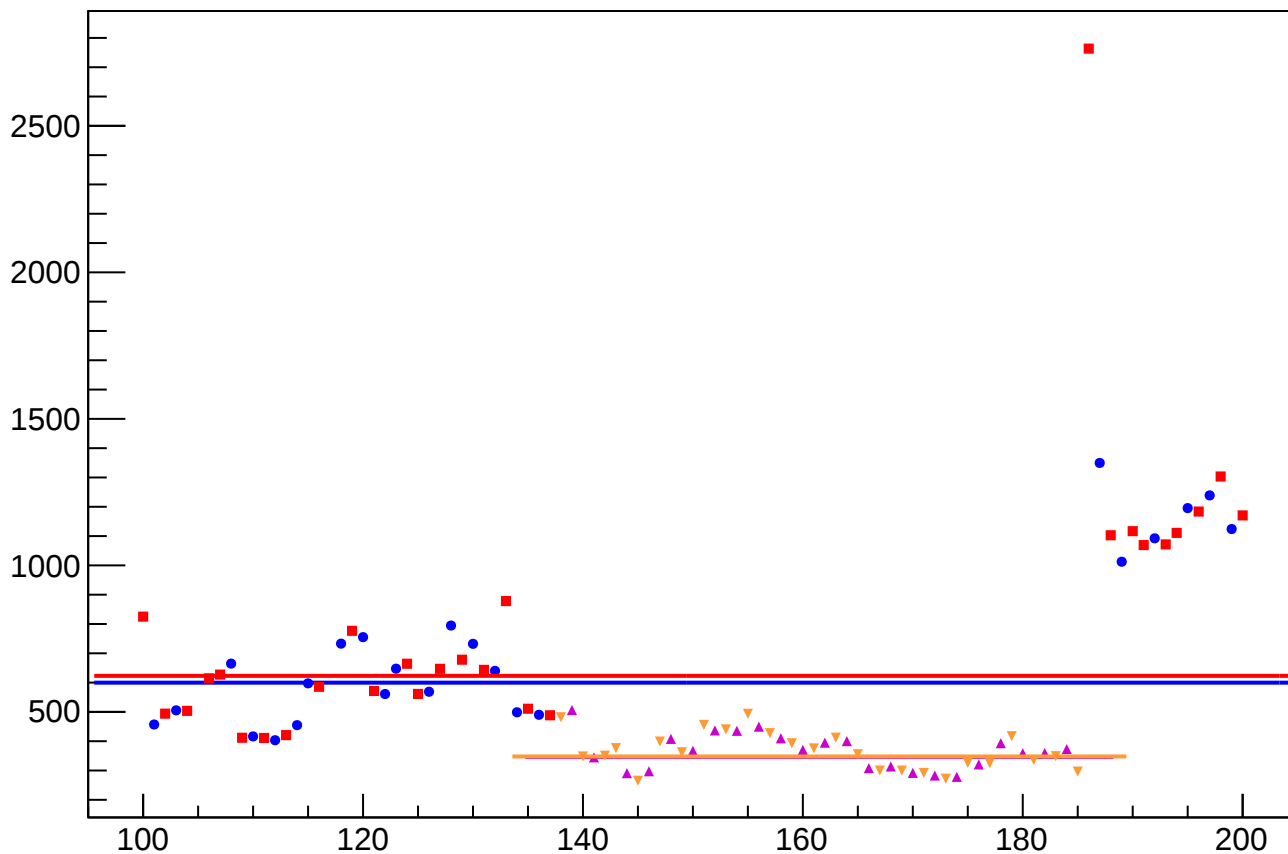
Right: 111.088 ± 136.386 $\chi^2/\text{NDF}: 53.5/50$

In: 21.306 ± 77.379 $\chi^2/\text{NDF}: 56.2/45$

Out: -266.982 ± 75.444 $\chi^2/\text{NDF}: 97.5/52$

All: -126.488 ± 54.018 $\chi^2/\text{NDF}: 160.8/98$

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 599.795 $\pm$ 0.140 χ^2 /NDF: 2583531.1/22

Left Out: 347.875 $\pm$ 0.058 χ^2 /NDF:1044096.7/24

Right Out: 623.057 $\pm$ 0.133 χ^2 /NDF: 3776212.6/27

Left In: 345.954 $\pm$ 0.059 χ^2 /NDF:900847.0/22

Left: 346.935 $\pm$ 0.042 χ^2 /NDF: 1945476.7/47

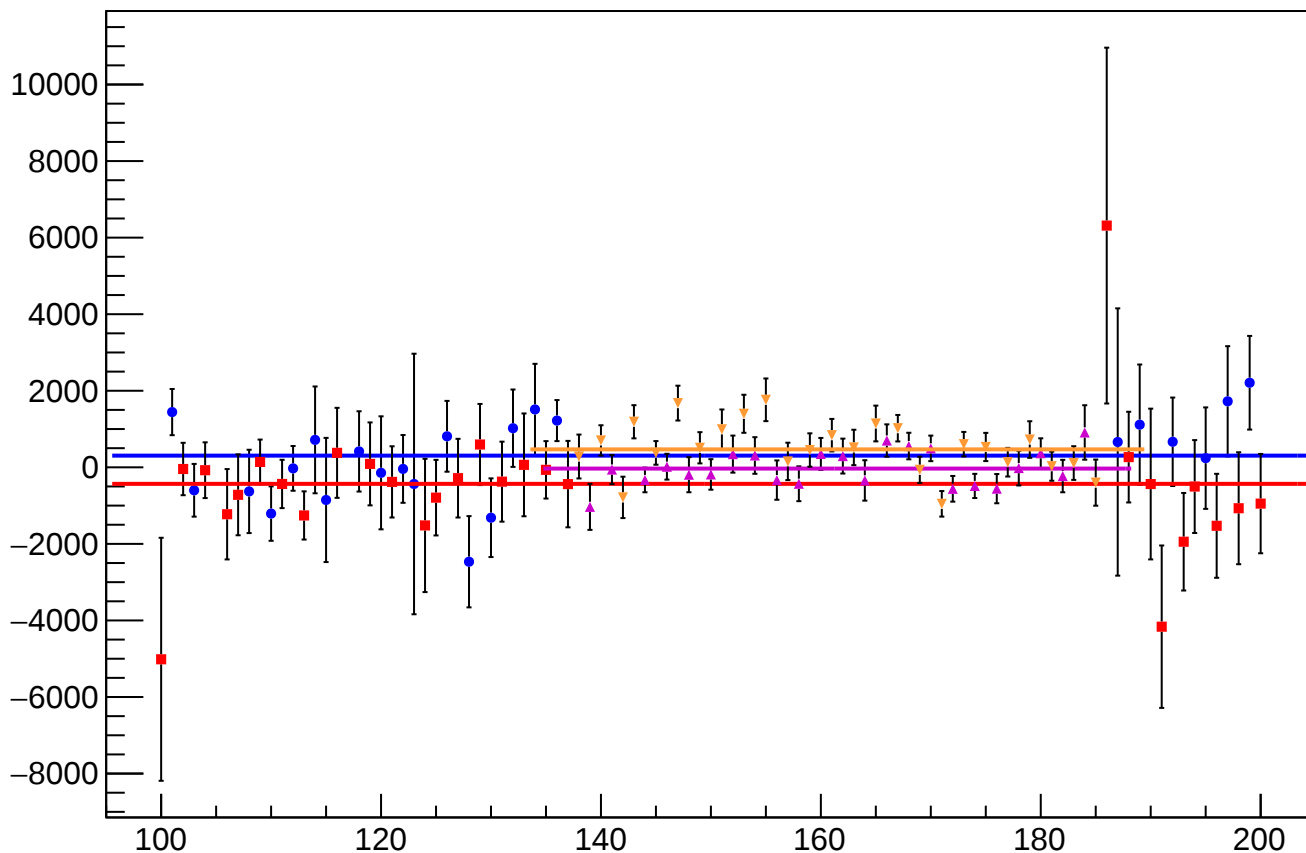
Right: 612.008 $\pm$ 0.096 χ^2 /NDF: 6374252.6/50

In: 384.763 $\pm$ 0.055 χ^2 /NDF:6271873.4/45

Out: 392.085 $\pm$ 0.053 χ^2 /NDF:8408349.6/52

All: 388.517 $\pm$ 0.038 χ^2 /NDF: 14689403.8/98

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 305.538 $\pm$ 199.312 χ^2 /NDF: 28.2/22

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -431.987 $\pm$ 189.691 χ^2 /NDF: 16.4/27

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

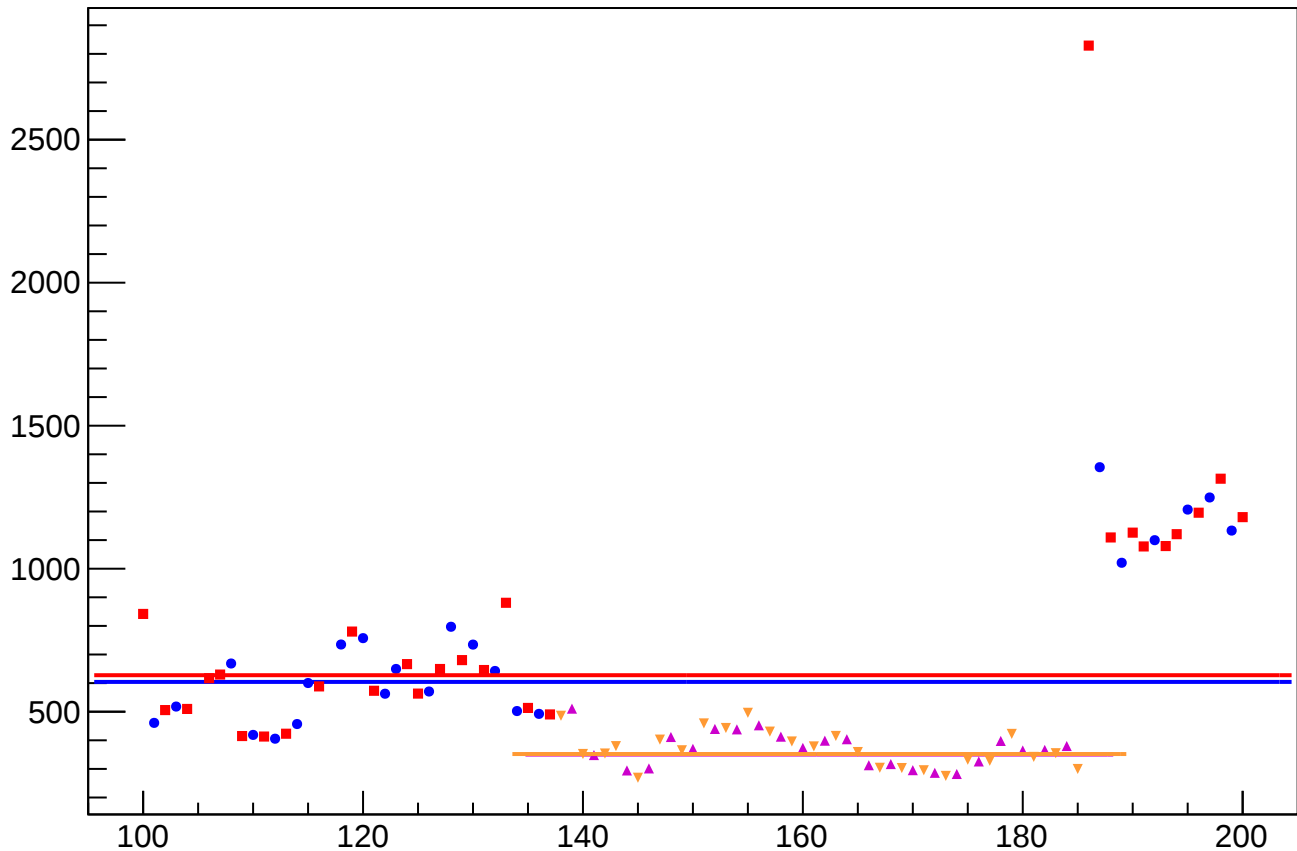
Right: -81.454 $\pm$ 137.407 χ^2 /NDF: 51.8/50

In: 19.331 $\pm$ 78.236 χ^2 /NDF:56.3/45

Out: 323.241 $\pm$ 76.267 χ^2 /NDF:92.8/52

All: 175.160 $\pm$ 54.612 χ^2 /NDF: 156.8/98

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 604.182+/-0.141 χ^2/NDF : 2578371.6/22

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 627.616+/-0.134 χ^2/NDF : 3777831.2/27

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

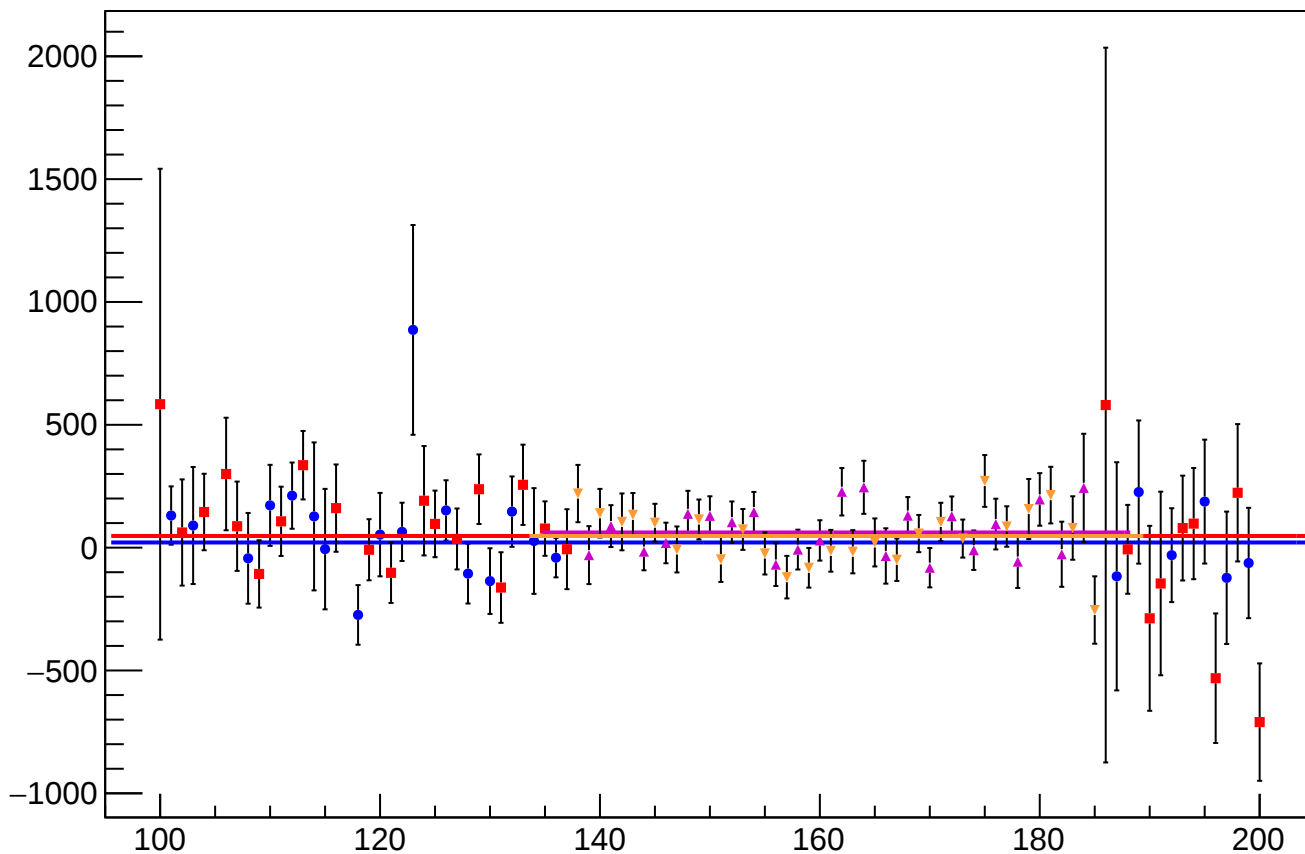
Right: 616.478+/-0.097 χ^2/NDF : 6370710.0/50

In: 389.300+/-0.055 χ^2/NDF : 6204848.5/45

Out: 396.565+/-0.054 χ^2/NDF : 8334382.0/52

All: 393.025+/-0.039 χ^2/NDF : 14548074.0/98

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 21.047 $\pm$ 32.851 χ^2 /NDF: 20.7/22

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 47.567 $\pm$ 32.322 χ^2 /NDF: 32.7/27

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

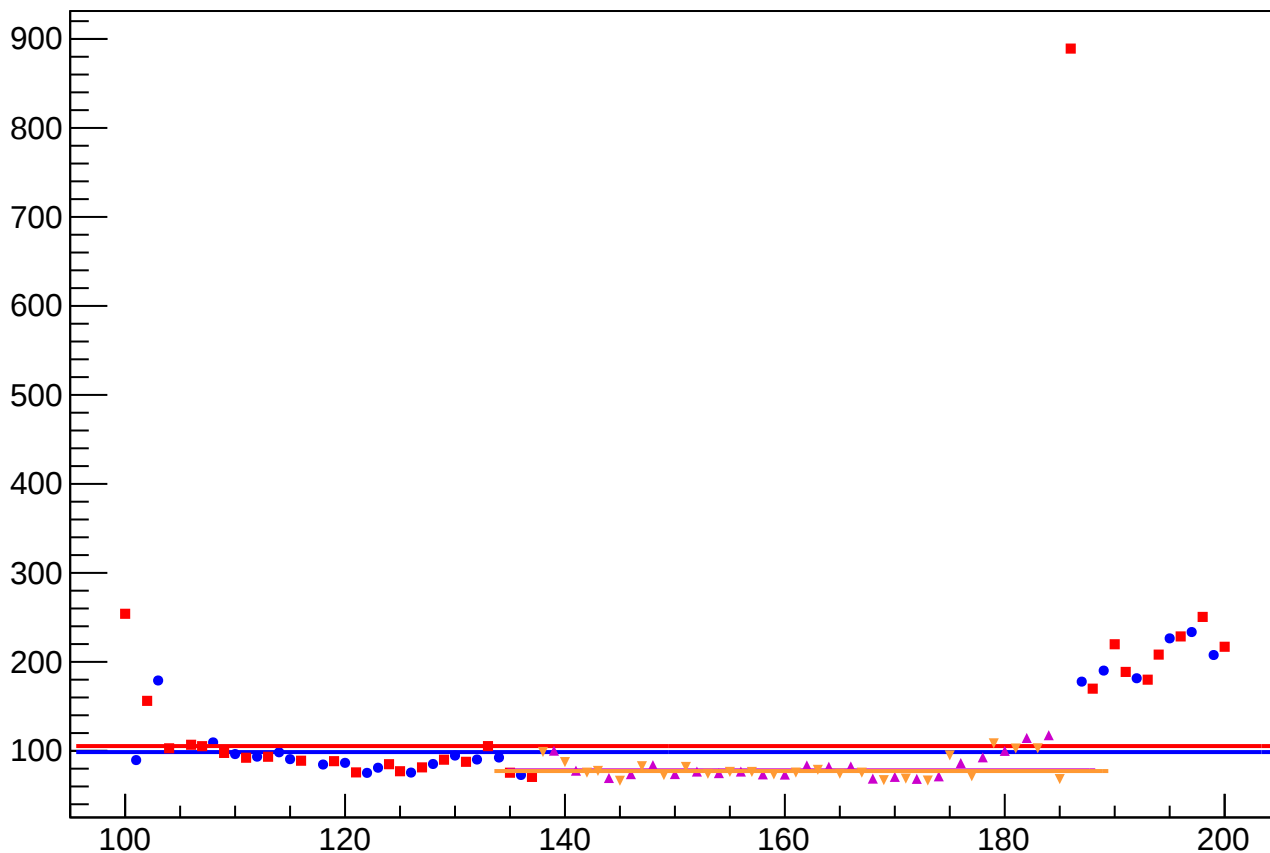
Right: 34.522 $\pm$ 23.040 χ^2 /NDF: 53.8/50

In: 51.641 $\pm$ 16.420 χ^2 /NDF:45.8/45

Out: 47.460 $\pm$ 15.894 χ^2 /NDF:62.1/52

All: 49.482 $\pm$ 11.420 χ^2 /NDF: 108.0/98

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 98.642 $\pm$ 0.023 χ^2 /NDF: 2800415.8/22

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF: 635622.3/24

Right Out: 105.390 $\pm$ 0.023 χ^2 /NDF: 4025836.5/27

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

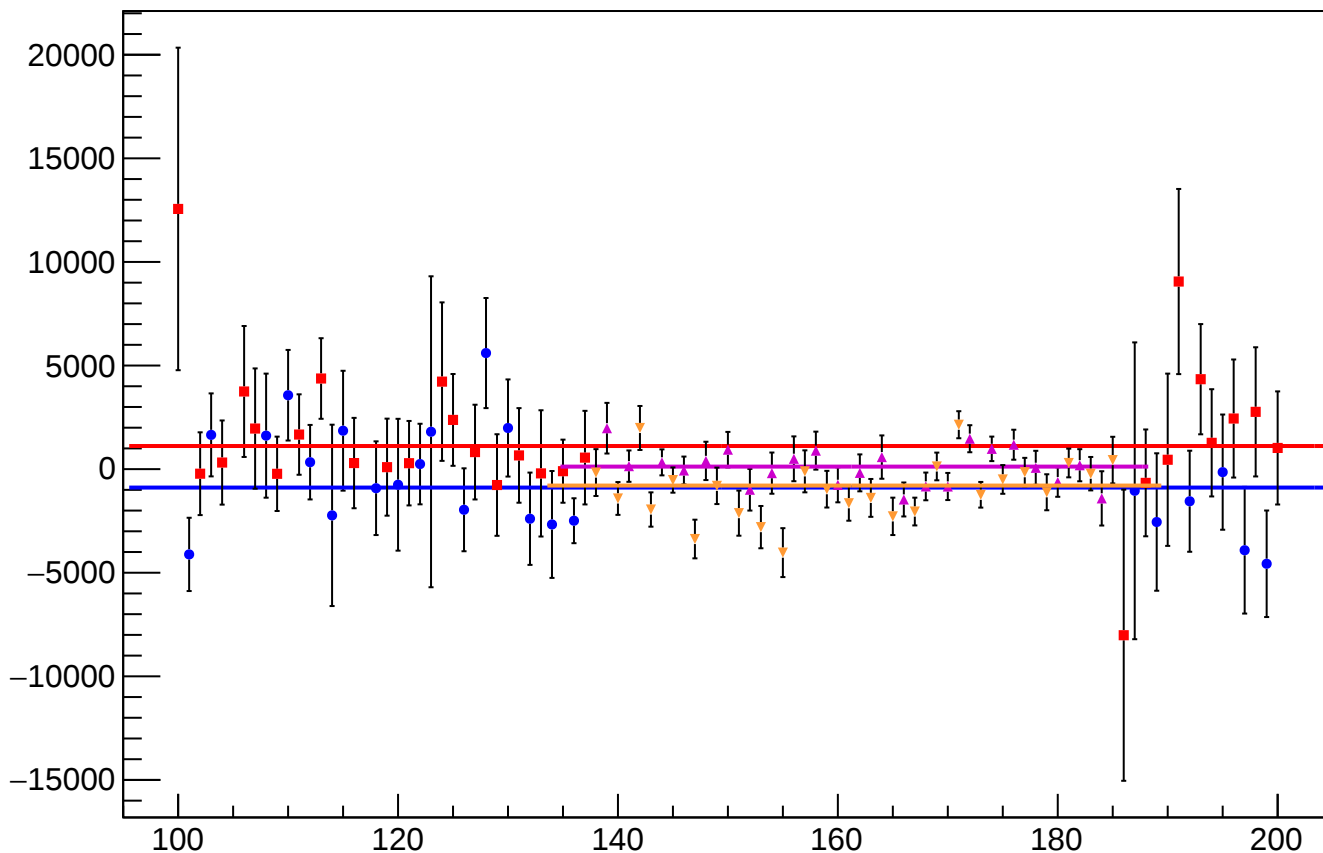
Right: 102.071 $\pm$ 0.016 χ^2 /NDF: 6869134.5/50

In: 83.261 $\pm$ 0.012 χ^2 /NDF: 3966972.3/45

Out: 84.104 $\pm$ 0.011 χ^2 /NDF: 5805467.2/52

All: 83.696 $\pm$ 0.008 χ^2 /NDF: 9775163.4/98

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -889.410 ± 477.278 $\chi^2/\text{NDF}: 26.0/22$

Left Out: -792.776 ± 162.659 $\chi^2/\text{NDF}: 66.6/24$

Right Out: 1115.773 ± 461.819 $\chi^2/\text{NDF}: 17.3/27$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

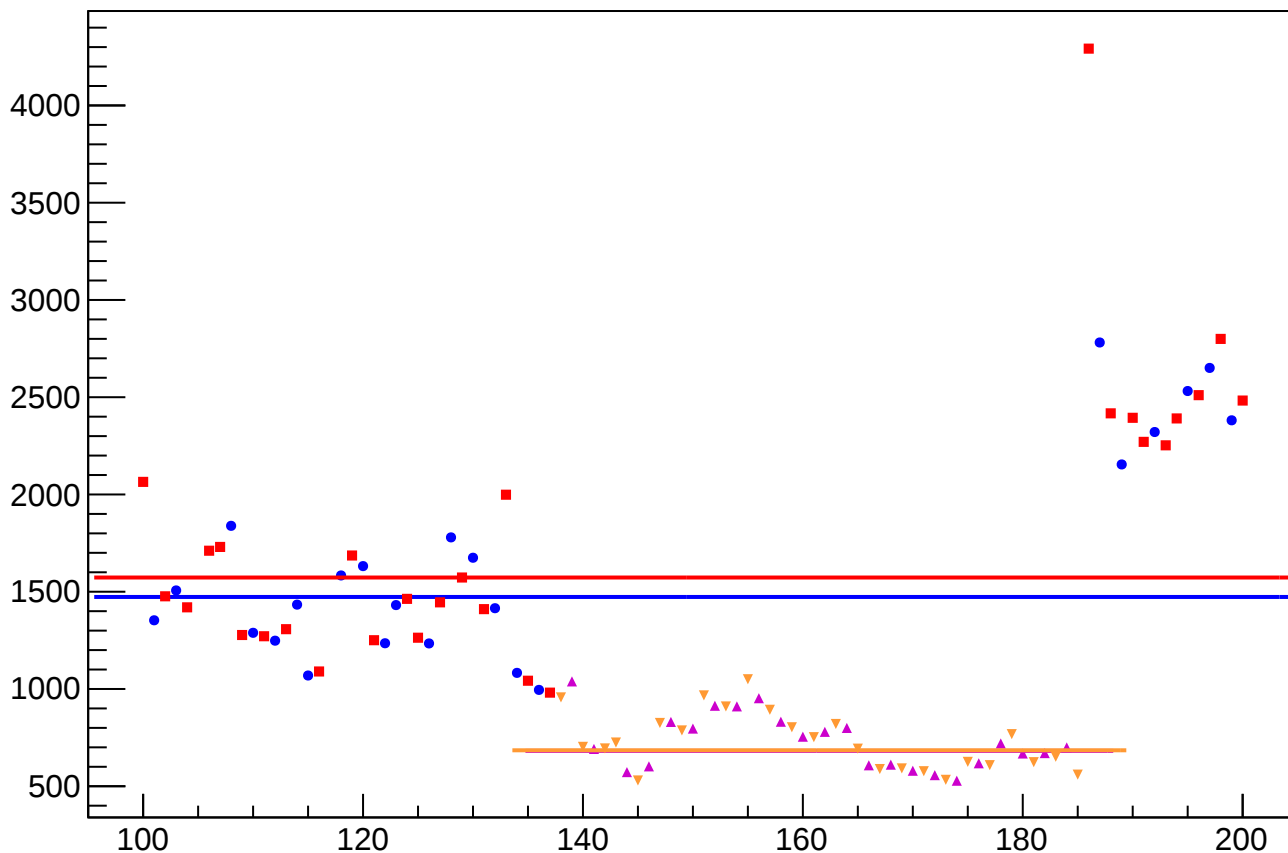
Right: 146.180 ± 331.886 $\chi^2/\text{NDF}: 52.5/50$

In: 12.804 ± 156.950 $\chi^2/\text{NDF}: 56.0/45$

Out: -582.142 ± 153.421 $\chi^2/\text{NDF}: 99.1/52$

All: -291.434 ± 109.711 $\chi^2/\text{NDF}: 162.4/98$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1473.112 $\pm$ 0.337 χ^2 /NDF: 1898838.3/22

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF: 1280146.2/24

Right Out: 1573.044 $\pm$ 0.327 χ^2 /NDF: 2522377.7/27

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

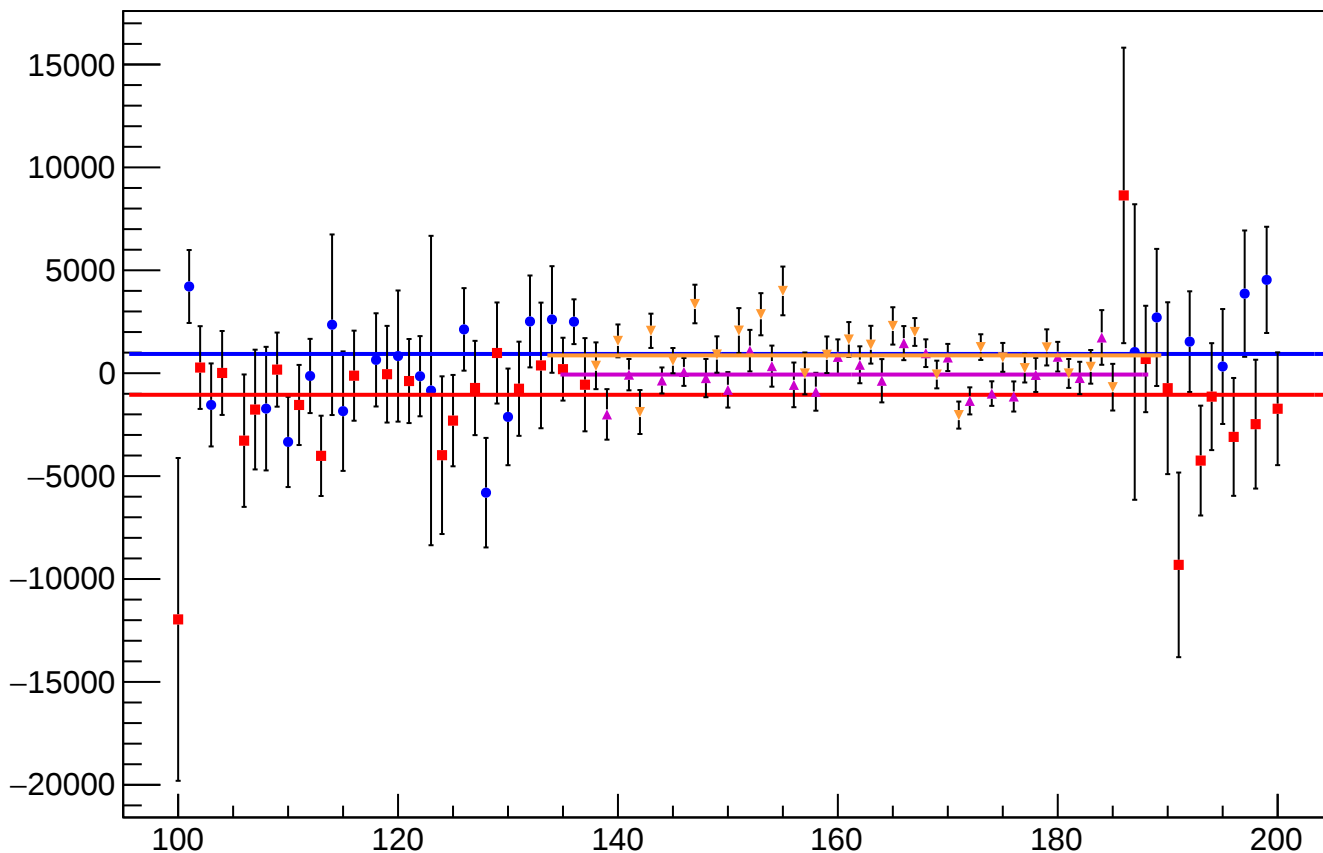
Right: 1524.723 $\pm$ 0.235 χ^2 /NDF: 4466498.9/50

In: 767.293 $\pm$ 0.111 χ^2 /NDF: 7922764.3/45

Out: 782.816 $\pm$ 0.108 χ^2 /NDF: 10384831.3/52

All: 775.231 $\pm$ 0.078 χ^2 /NDF: 18317599.6/98

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 935.322 $\pm$ 478.706 χ^2 /NDF: 26.0/22

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -1049.009 $\pm$ 463.434 χ^2 /NDF: 16.9/27

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

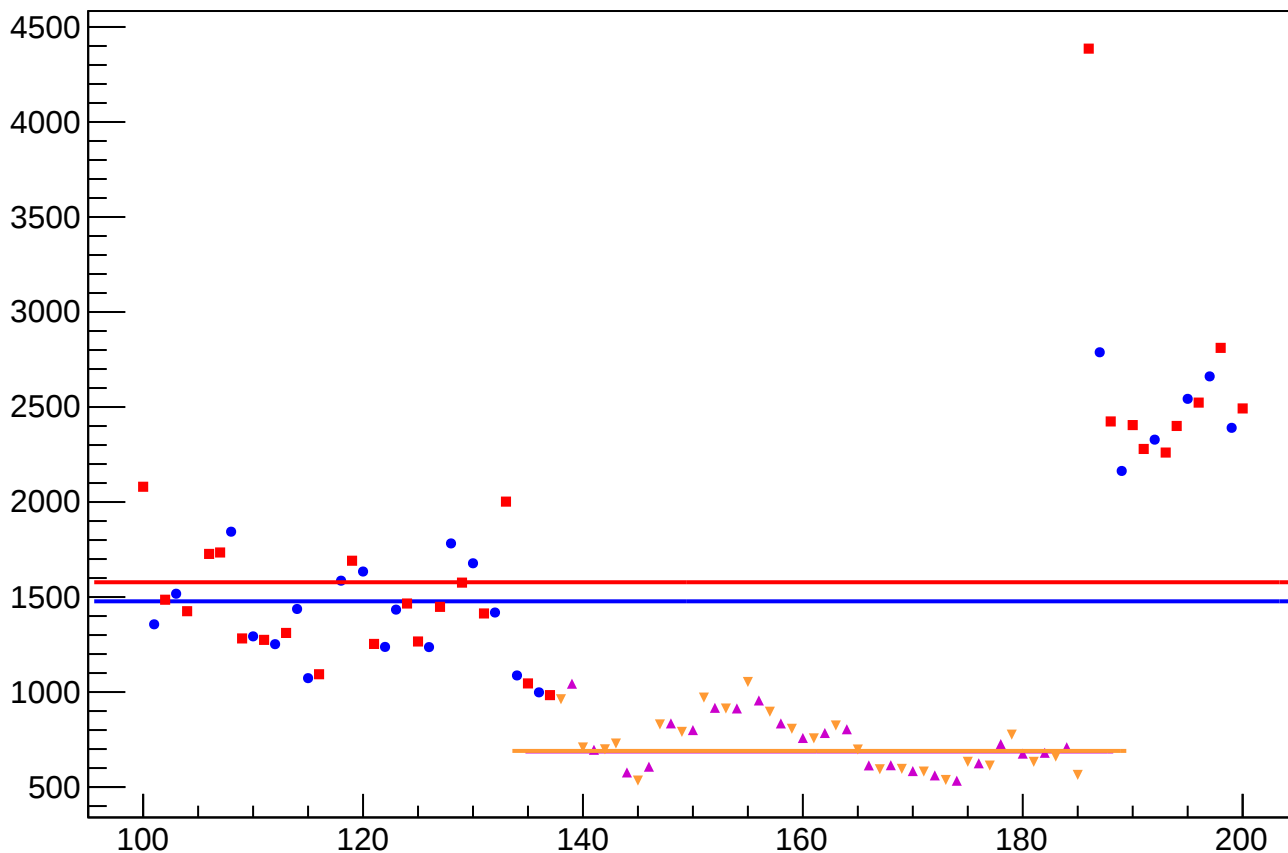
Right: -89.000 $\pm$ 332.966 χ^2 /NDF: 51.8/50

In: 43.271 $\pm$ 158.088 χ^2 /NDF:56.3/45

Out: 652.778 $\pm$ 154.509 χ^2 /NDF:95.0/52

All: 355.003 $\pm$ 110.498 χ^2 /NDF: 158.8/98

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1477.433+/-0.338 χ^2/NDF : 1901342.8/22

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1577.811+/-0.328 χ^2/NDF : 2534580.3/27

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

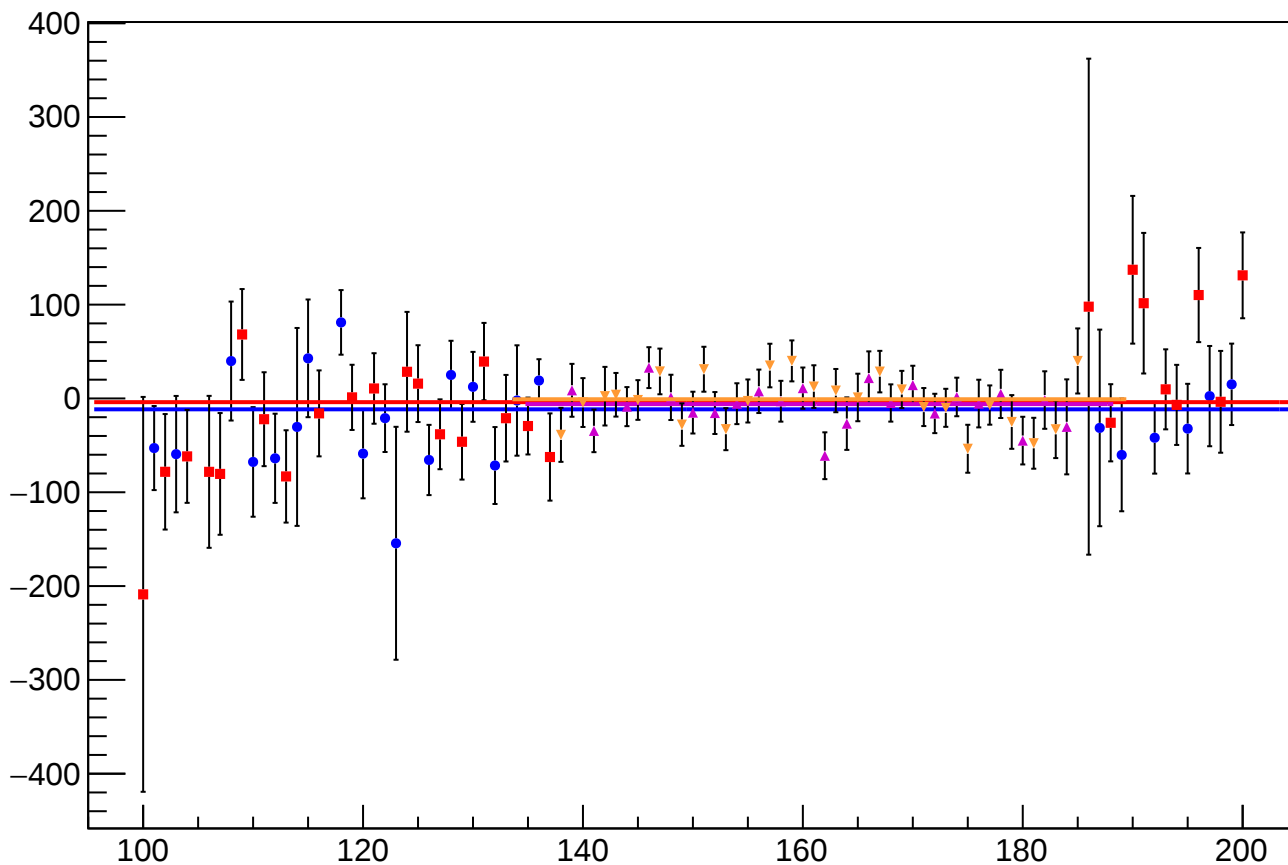
Right: 1529.249+/-0.235 χ^2/NDF : 4481316.9/50

In: 773.397+/-0.112 χ^2/NDF : 7856547.2/45

Out: 788.833+/-0.109 χ^2/NDF : 10314401.3/52

All: 781.291+/-0.078 χ^2/NDF : 18180701.0/98

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -11.606 ± 9.294 χ^2/NDF : 24.1/22

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: -3.955 ± 8.987 χ^2/NDF : 36.8/27

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

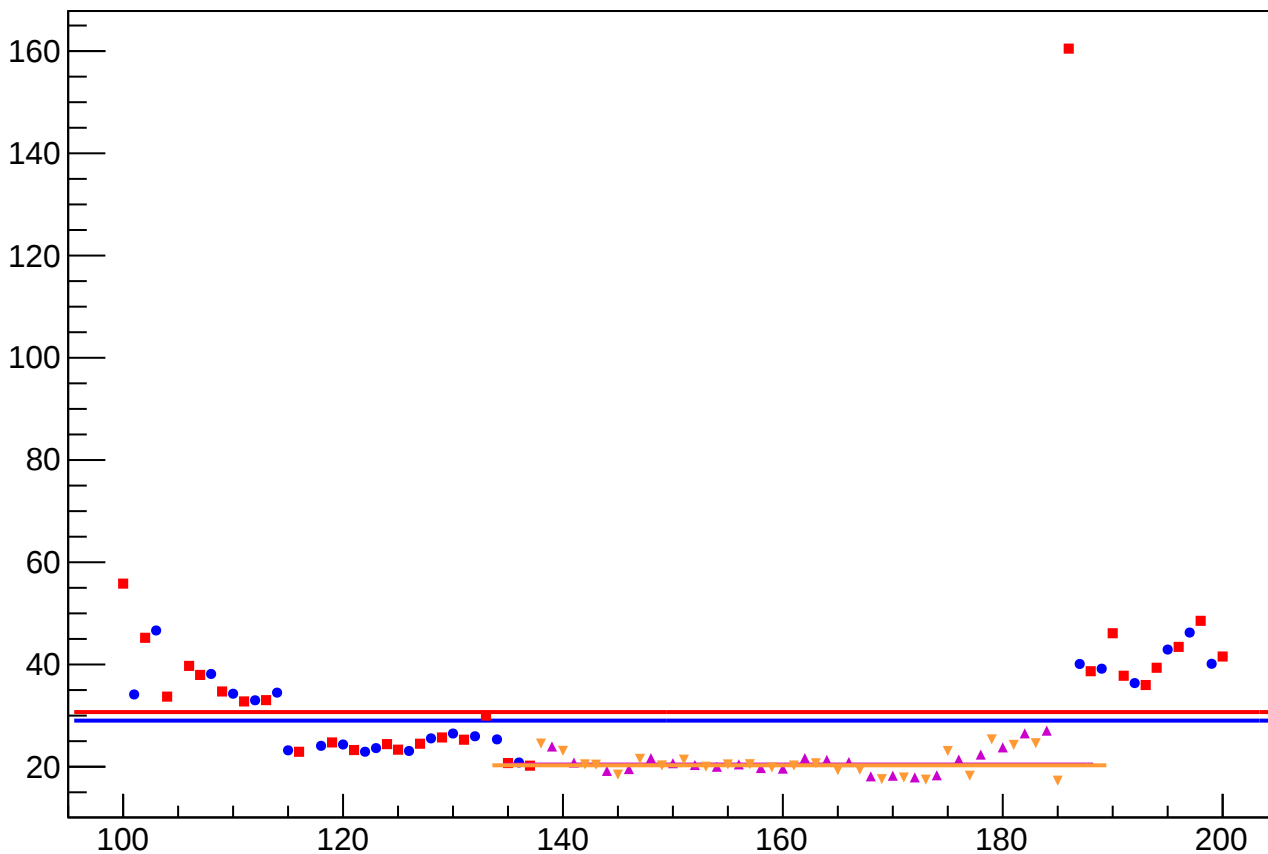
Right: -7.652 ± 6.461 χ^2/NDF : 61.2/50

In: -7.262 ± 4.352 χ^2/NDF : 41.3/45

Out: -1.539 ± 4.207 χ^2/NDF : 64.8/52

All: -4.303 ± 3.025 χ^2/NDF : 106.9/98

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 29.019+/-0.007 χ^2/NDF : 1420361.5/22

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 30.695+/-0.006 χ^2/NDF : 2159583.6/27

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

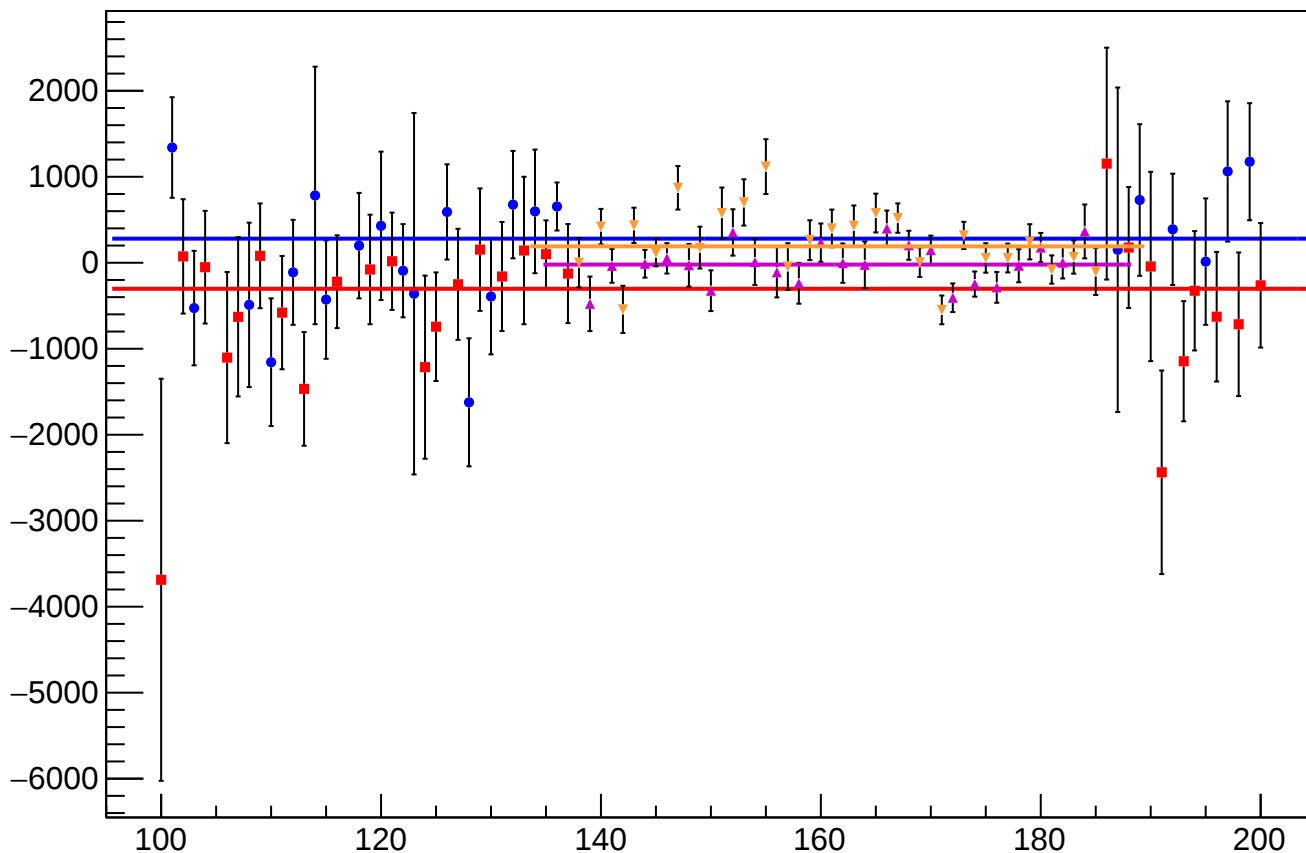
Right: 29.885+/-0.005 χ^2/NDF : 3613552.3/50

In: 22.308+/-0.003 χ^2/NDF : 3079413.1/45

Out: 22.561+/-0.003 χ^2/NDF : 4664457.1/52

All: 22.439+/-0.002 χ^2/NDF : 7747356.7/98

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 280.502 ± 134.841 $\chi^2/\text{NDF}: 24.6/22$

Left Out: 190.867 ± 41.314 $\chi^2/\text{NDF}: 67.9/24$

Right Out: -302.491 ± 131.687 $\chi^2/\text{NDF}: 17.4/27$

Left In: -20.998 ± 42.291 $\chi^2/\text{NDF}: 27.7/22$

Left: 87.410 ± 29.553 $\chi^2/\text{NDF}: 108.4/47$

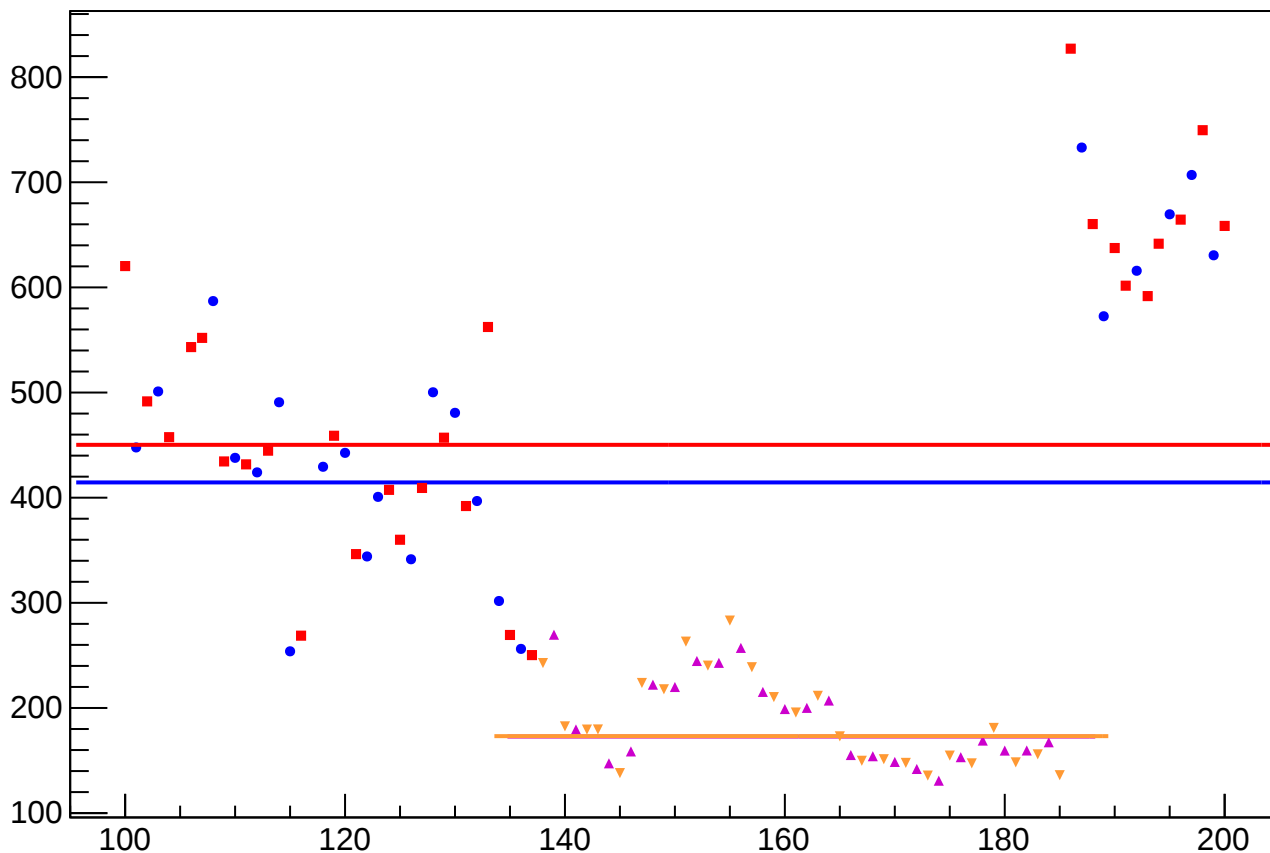
Right: -17.892 ± 94.212 $\chi^2/\text{NDF}: 51.6/50$

In: 6.003 ± 40.353 $\chi^2/\text{NDF}: 56.9/45$

Out: 146.659 ± 39.419 $\chi^2/\text{NDF}: 98.0/52$

All: 77.977 ± 28.198 $\chi^2/\text{NDF}: 161.2/98$

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 414.512 $\pm$ 0.095 χ^2 /NDF: 2046717.0/22

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 450.266 $\pm$ 0.093 χ^2 /NDF: 2366629.7/27

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

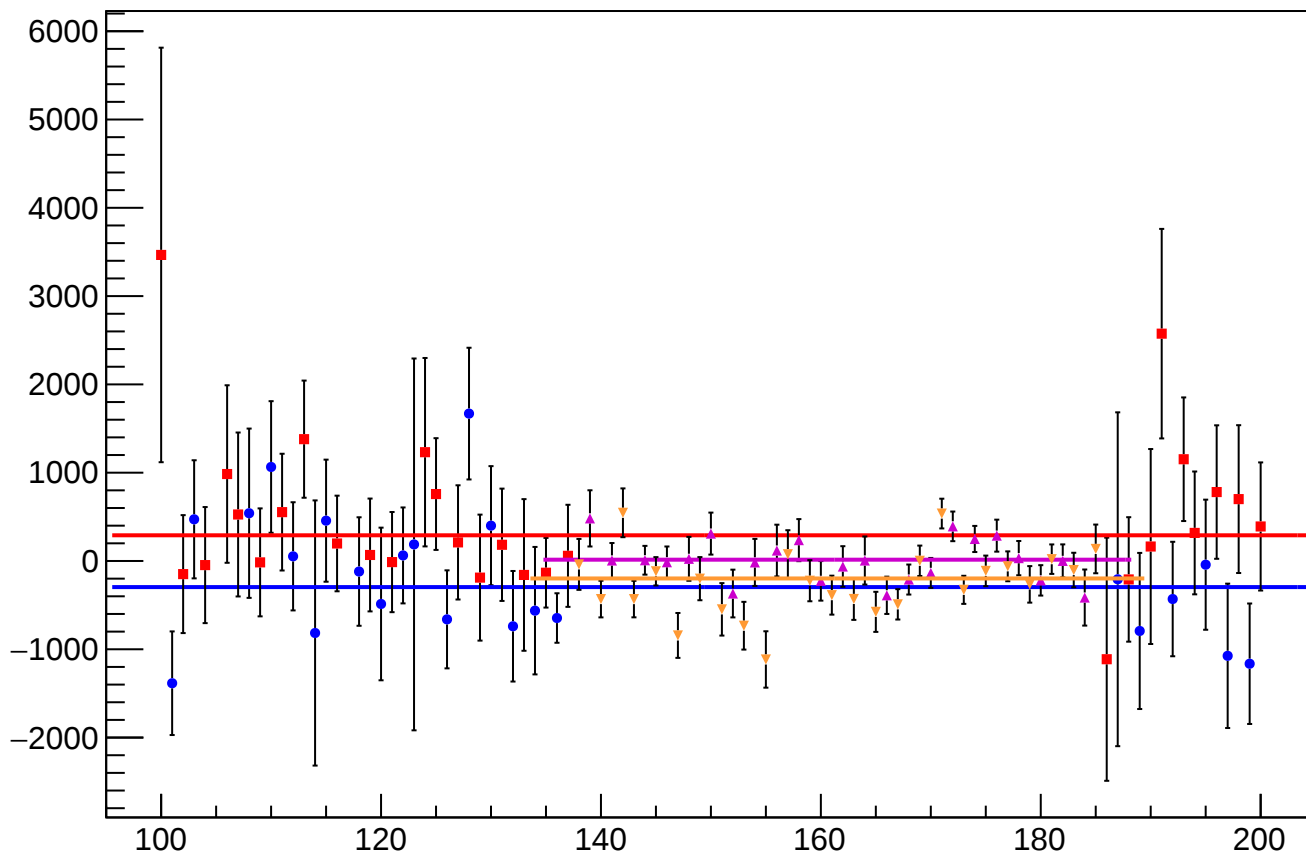
Right: 432.812 $\pm$ 0.067 χ^2 /NDF: 4485317.5/50

In: 194.472 $\pm$ 0.029 χ^2 /NDF:9268618.2/45

Out: 198.036 $\pm$ 0.028 χ^2 /NDF:11987414.7/52

All: 196.296 $\pm$ 0.020 χ^2 /NDF: 21264013.3/98

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -295.701 ± 135.215 χ^2/NDF : 24.7/22

Left Out: -197.918 ± 41.638 χ^2/NDF : 64.3/24

Right Out: 290.914 ± 132.080 χ^2/NDF : 17.5/27

Left In: 14.616 ± 42.629 χ^2/NDF : 27.7/22

Left: -94.151 ± 29.787 χ^2/NDF : 104.7/47

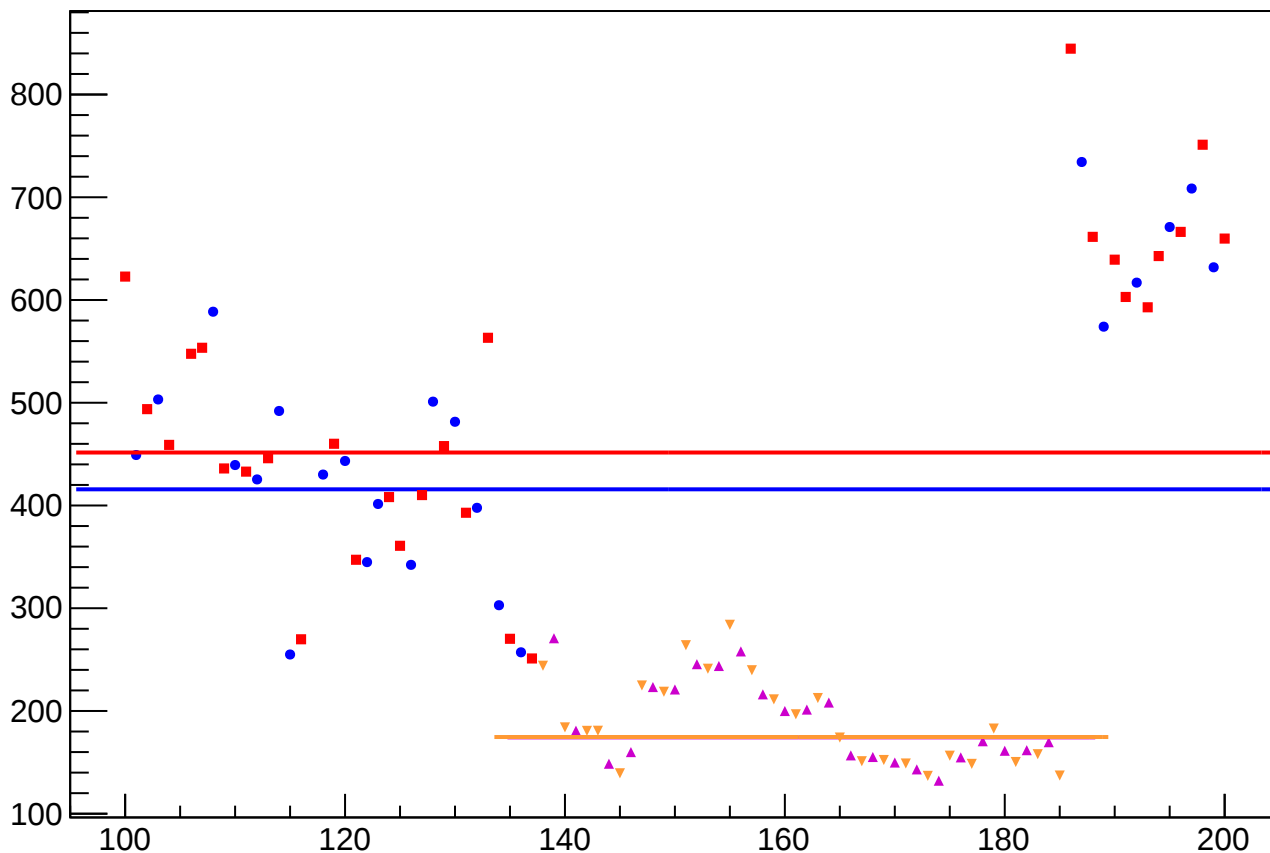
Right: 4.488 ± 94.483 χ^2/NDF : 51.8/50

In: -13.440 ± 40.657 χ^2/NDF : 57.2/45

Out: -153.728 ± 39.712 χ^2/NDF : 94.2/52

All: -85.234 ± 28.409 χ^2/NDF : 157.5/98

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 415.736 $\pm$ 0.096 χ^2 /NDF: 2040777.4/22

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF: 1531999.5/24

Right Out: 451.558 $\pm$ 0.093 χ^2 /NDF: 2370019.3/27

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

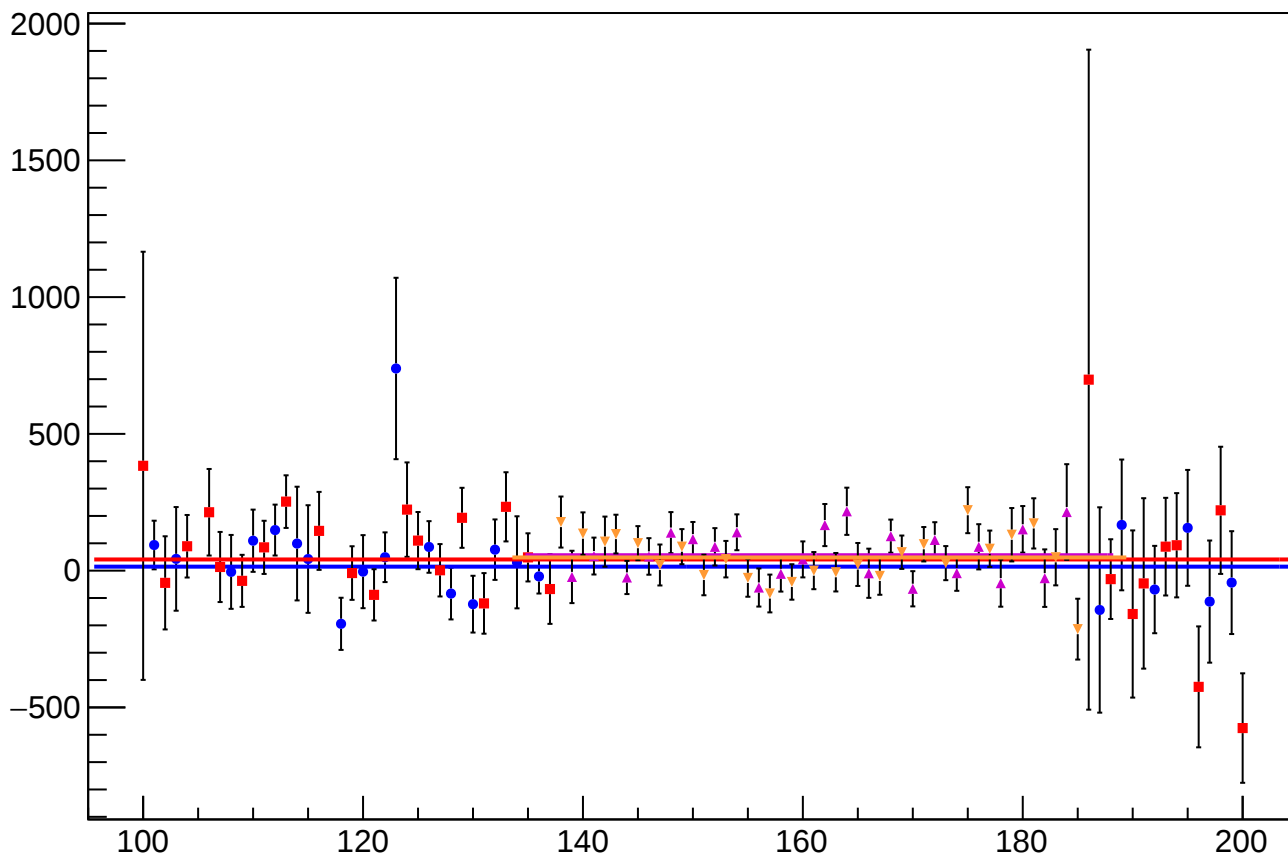
Right: 434.067 $\pm$ 0.067 χ^2 /NDF: 4482629.6/50

In: 196.117 $\pm$ 0.029 χ^2 /NDF: 9186117.2/45

Out: 199.680 $\pm$ 0.028 χ^2 /NDF: 11898286.7/52

All: 197.941 $\pm$ 0.020 χ^2 /NDF: 21092264.3/98

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 14.622 $\pm$ 25.223 χ^2 /NDF: 19.3/22

Left Out: 48.233 $\pm$ 14.616 χ^2 /NDF:29.3/24

Right Out: 40.914 $\pm$ 24.627 χ^2 /NDF: 34.8/27

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

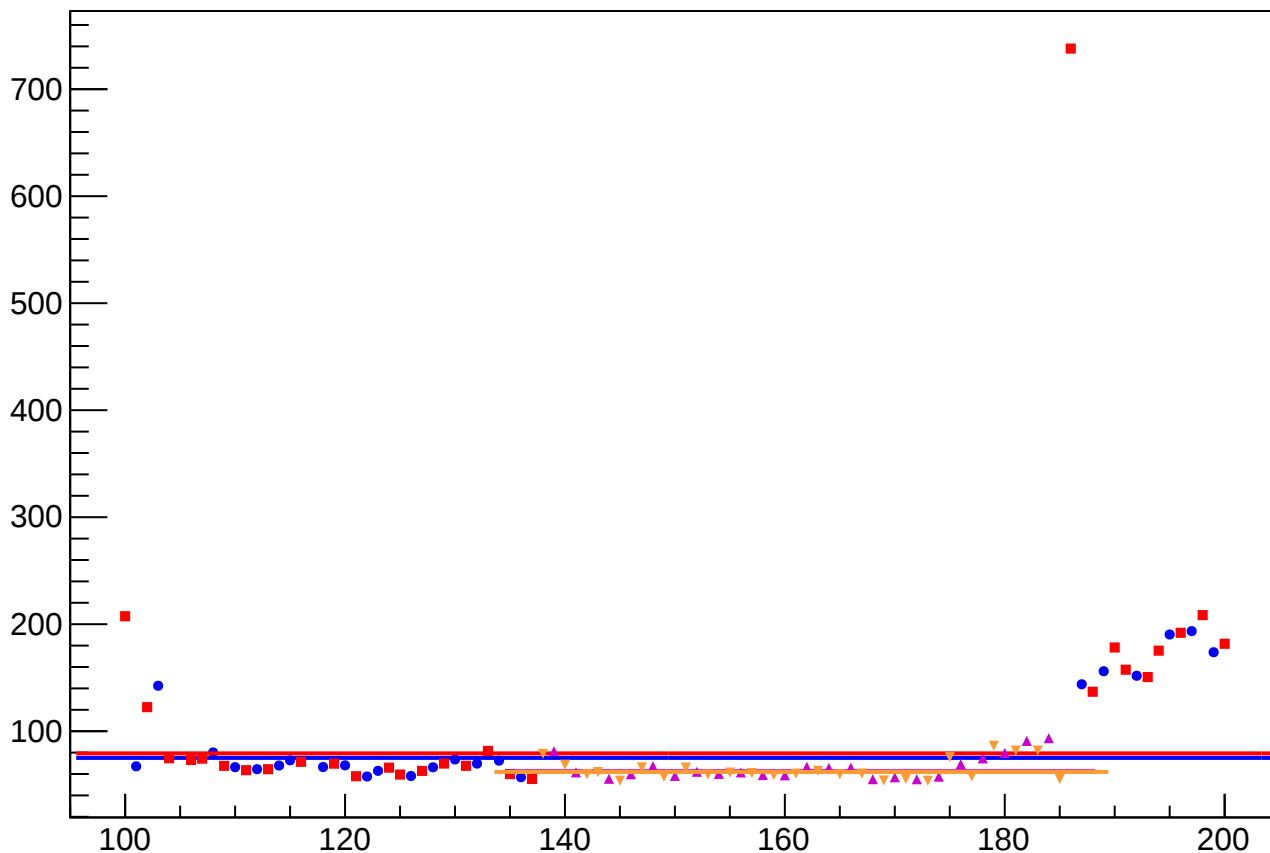
Right: 28.082 $\pm$ 17.621 χ^2 /NDF: 54.7/50

In: 45.292 $\pm$ 13.008 χ^2 /NDF:48.8/45

Out: 46.326 $\pm$ 12.569 χ^2 /NDF:64.1/52

All: 45.827 $\pm$ 9.039 χ^2 /NDF: 112.9/98

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 75.058+/-0.018 χ^2/NDF : 3129187.9/22

Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24

Right Out: 79.274+/-0.017 χ^2/NDF : 4529946.6/27

Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47

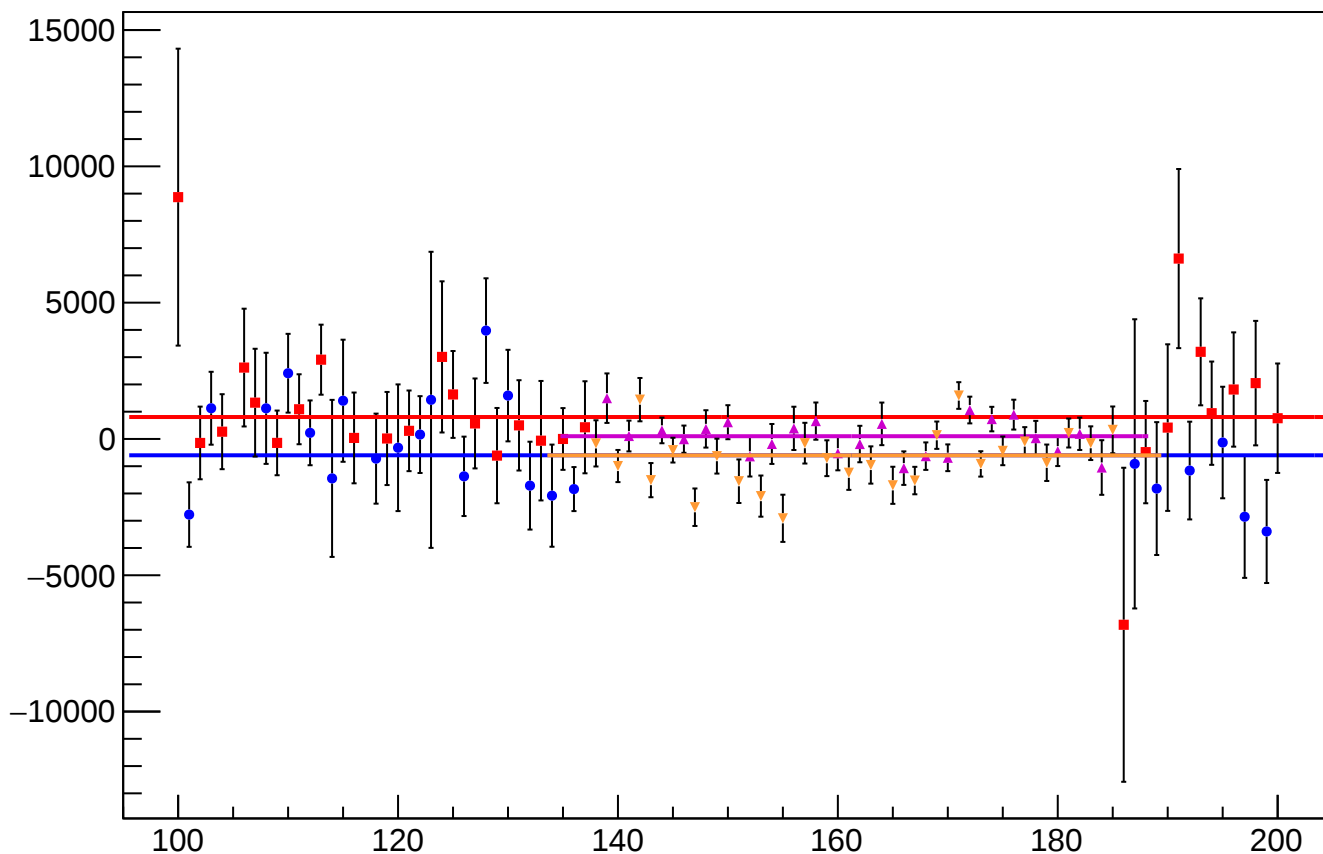
Right: 77.216+/-0.012 χ^2/NDF : 7687737.2/50

In: 65.918+/-0.009 χ^2/NDF : 4062445.9/45

Out: 66.460+/-0.009 χ^2/NDF : 5867143.8/52

All: 66.198+/-0.006 χ^2/NDF : 9931382.6/98

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -599.252+/-340.108 χ^2/NDF : 26.6/22

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 804.547+/-327.529 χ^2/NDF : 17.3/27

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

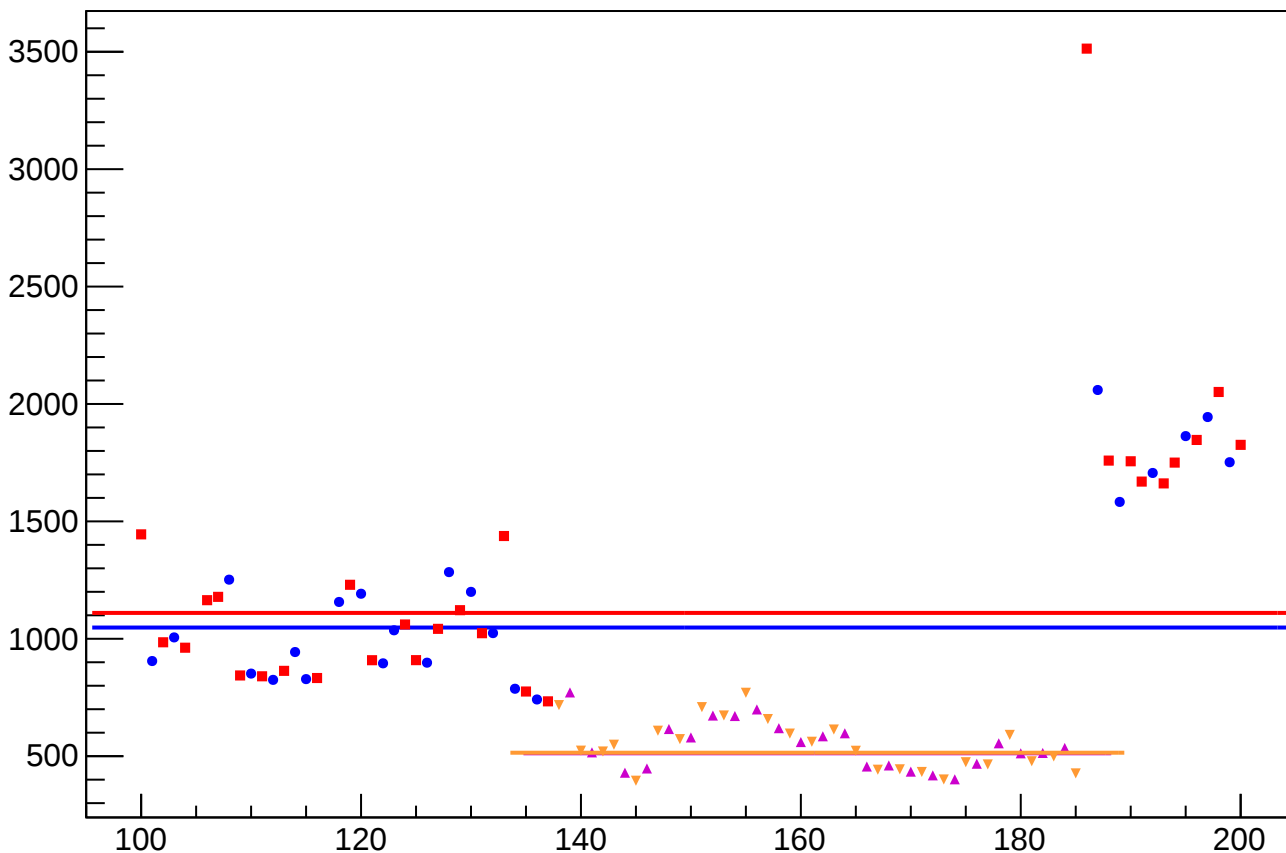
Right: 129.087+/-235.920 χ^2/NDF : 52.7/50

In: 17.592+/-117.099 χ^2/NDF : 55.8/45

Out: -429.881+/-114.424 χ^2/NDF : 98.8/52

All: -211.314+/-81.839 χ^2/NDF : 162.1/98

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1047.870+/-0.240 χ^2/NDF : 1968227.5/22

Left Out: 514.758+/-0.086 χ^2/NDF :1194945.9/24

Right Out: 1110.142+/-0.232 χ^2/NDF : 2739841.7/27

Left In: 512.199+/-0.088 χ^2/NDF :1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

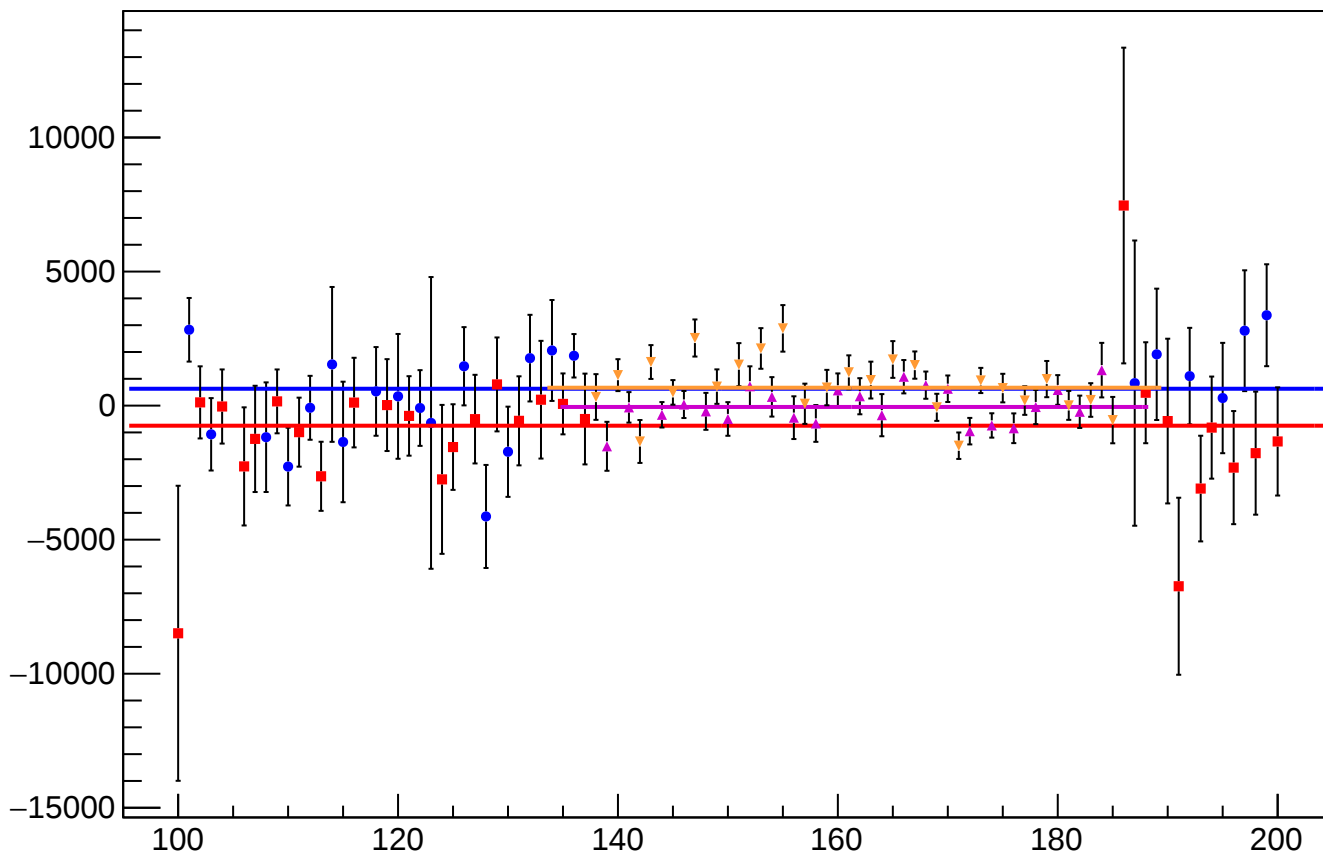
Right: 1080.179+/-0.167 χ^2/NDF : 4742856.2/50

In: 575.699+/-0.083 χ^2/NDF :7382667.3/45

Out: 587.424+/-0.081 χ^2/NDF :9737023.1/52

All: 581.697+/-0.058 χ^2/NDF : 17129947.9/98

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 629.098+/-341.339 χ^2/NDF : 26.6/22

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -749.332+/-328.909 χ^2/NDF : 16.7/27

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

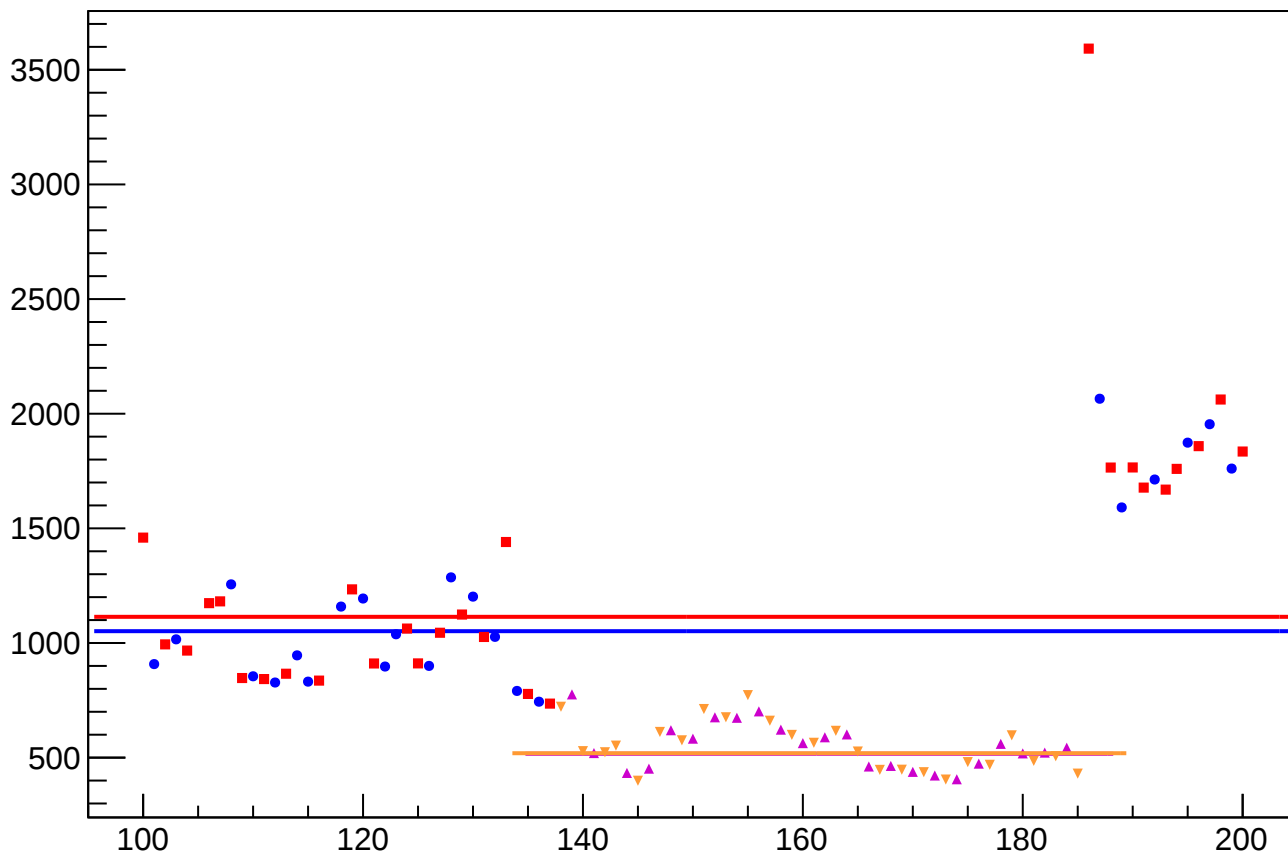
Right: -85.673+/-236.846 χ^2/NDF : 51.7/50

In: 31.146+/-118.043 χ^2/NDF : 56.1/45

Out: 493.416+/-115.327 χ^2/NDF : 94.5/52

All: 267.659+/-82.492 χ^2/NDF : 158.5/98

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1051.551+/-0.241 χ^2/NDF : 1972637.1/22

Left Out: 519.254+/-0.087 χ^2/NDF : 1172411.1/24

Right Out: 1114.176+/-0.233 χ^2/NDF : 2753673.0/27

Left In: 516.792+/-0.089 χ^2/NDF : 1021374.1/22

Left: 518.049+/-0.062 χ^2/NDF : 2194176.4/47

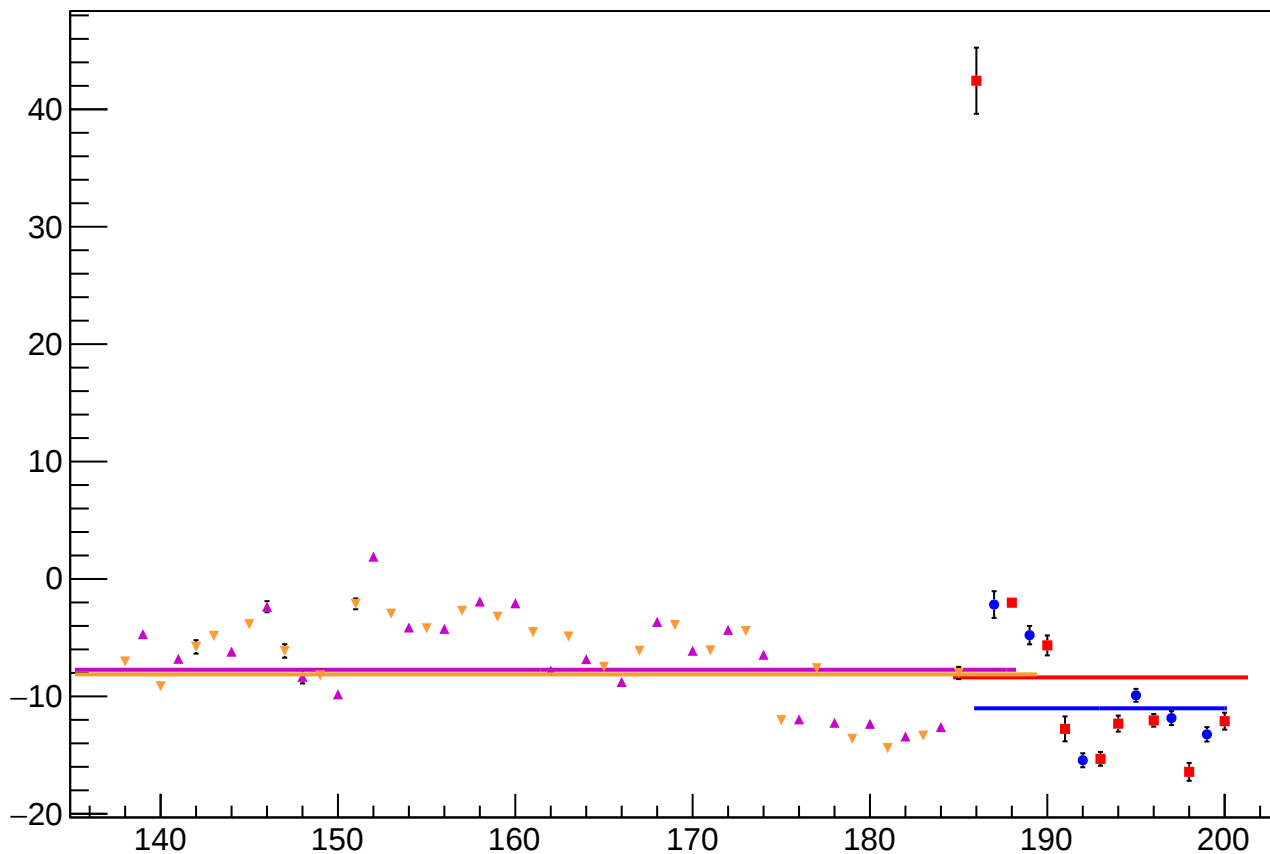
Right: 1084.024+/-0.167 χ^2/NDF : 4761218.7/50

In: 580.745+/-0.083 χ^2/NDF : 7315732.4/45

Out: 592.397+/-0.082 χ^2/NDF : 9664937.8/52

All: 586.707+/-0.058 χ^2/NDF : 16990640.0/98

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.015 ± 0.267 $\chi^2/\text{NDF}: 198.0/5$

Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$

Right Out: -8.383 ± 0.206 $\chi^2/\text{NDF}: 1070.7/8$

Left In: -7.732 ± 0.069 $\chi^2/\text{NDF}: 3719.0/22$

Left: -7.934 ± 0.048 $\chi^2/\text{NDF}: 7371.4/47$

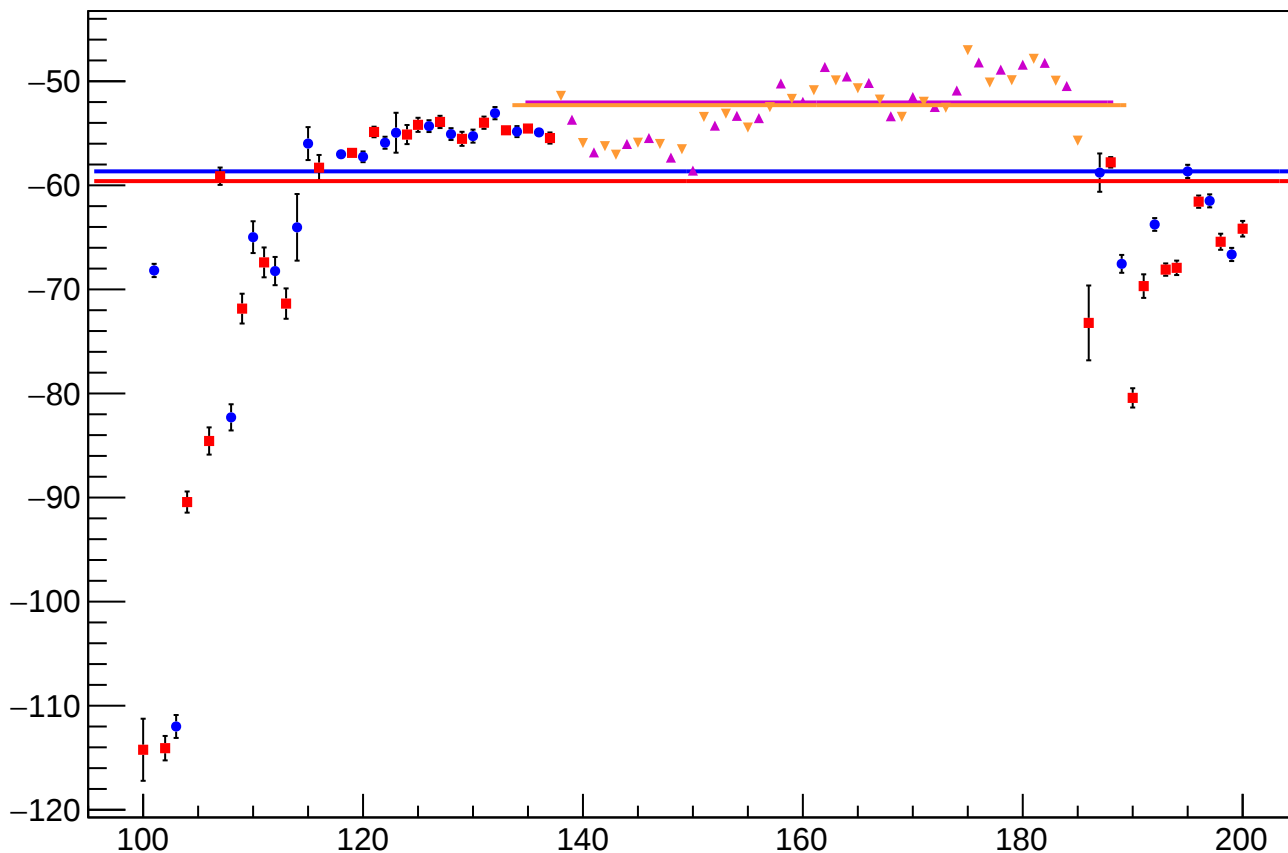
Right: -9.366 ± 0.163 $\chi^2/\text{NDF}: 1329.5/14$

In: -7.936 ± 0.067 $\chi^2/\text{NDF}: 4058.6/28$

Out: -8.152 ± 0.064 $\chi^2/\text{NDF}: 4707.6/33$

All: -8.048 ± 0.046 $\chi^2/\text{NDF}: 8771.6/62$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.657 $\pm$ 0.128 χ^2 /NDF: 3871.5/22

Left Out: -52.297 $\pm$ 0.055 χ^2 /NDF:2657.5/24

Right Out: -59.595 $\pm$ 0.123 χ^2 /NDF: 5937.4/27

Left In: -52.038 $\pm$ 0.057 χ^2 /NDF:3180.4/22

Left: -52.172 $\pm$ 0.040 χ^2 /NDF: 5848.6/47

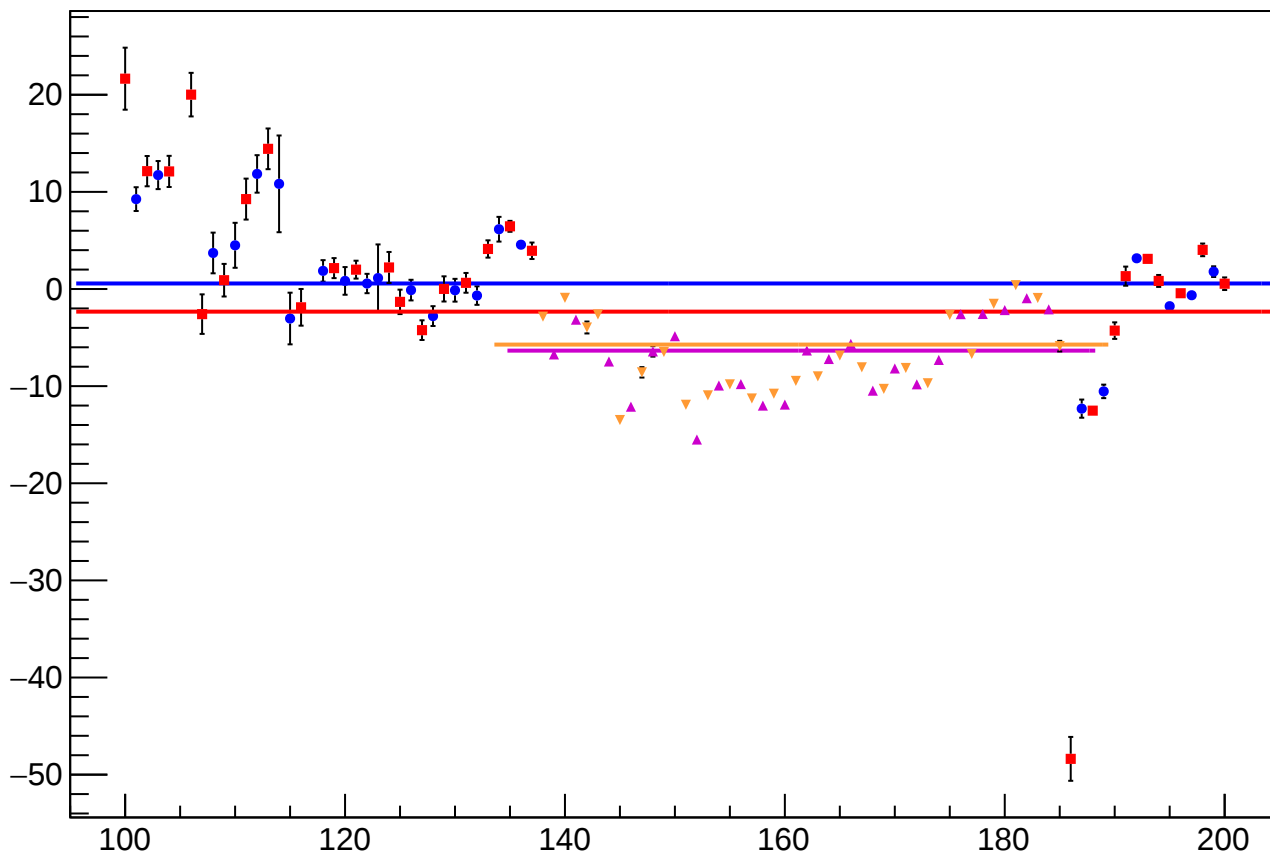
Right: -59.146 $\pm$ 0.089 χ^2 /NDF: 9836.7/50

In: -53.132 $\pm$ 0.052 χ^2 /NDF:9268.1/45

Out: -53.513 $\pm$ 0.050 χ^2 /NDF:11523.7/52

All: -53.330 $\pm$ 0.036 χ^2 /NDF: 20819.5/98

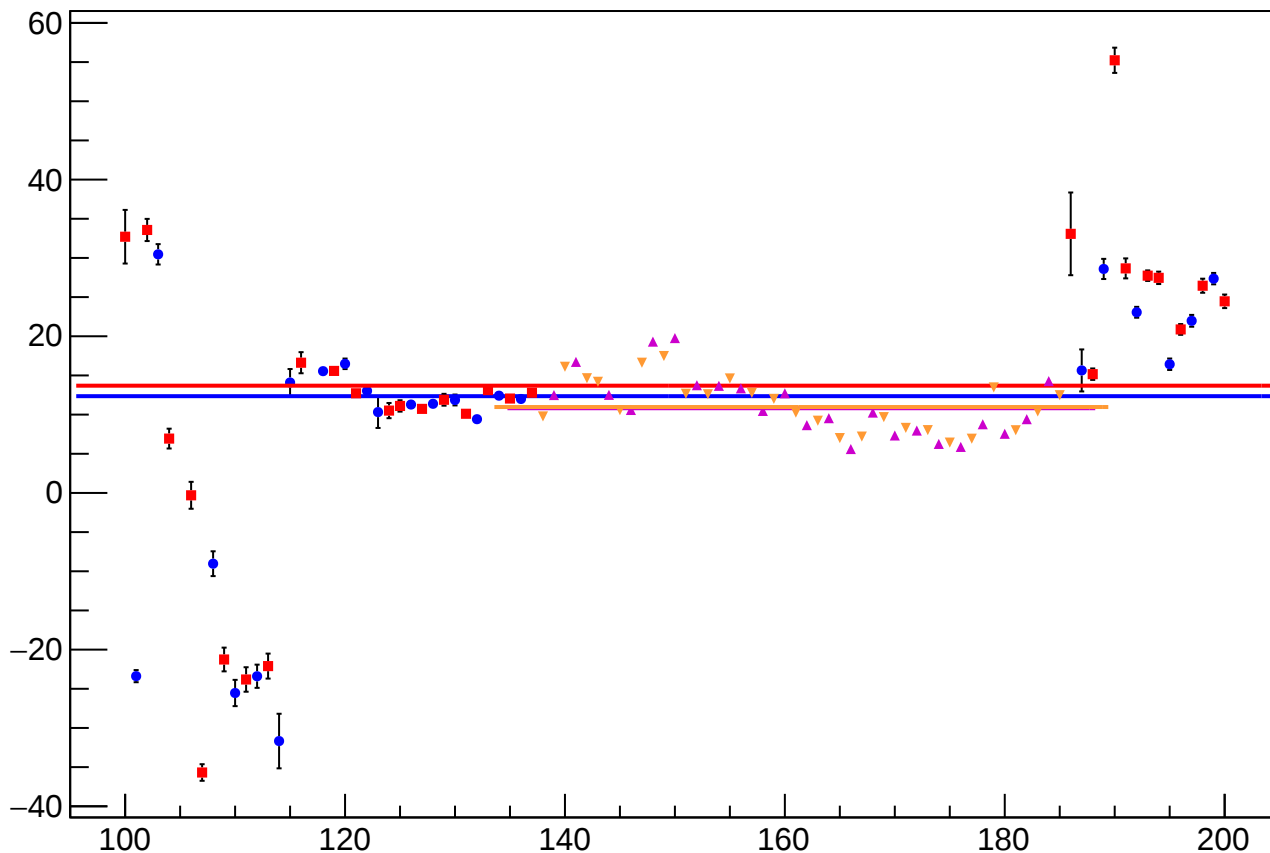
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.570 ± 0.173 χ^2/NDF : 792.6/22
 Left Out: -5.722 ± 0.068 χ^2/NDF : 3983.0/24
 Right Out: -2.330 ± 0.147 χ^2/NDF : 2944.3/27
 Left In: -6.344 ± 0.069 χ^2/NDF : 3383.7/22

Left: -6.028 ± 0.048 χ^2/NDF : 7408.5/47
 Right: -1.108 ± 0.112 χ^2/NDF : 3900.3/50
 In: -5.400 ± 0.064 χ^2/NDF : 5562.7/45
 Out: -5.131 ± 0.061 χ^2/NDF : 7366.0/52
 All: -5.260 ± 0.044 χ^2/NDF : 12937.9/98

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.353+/-0.144 χ^2/NDF : 4881.2/22

Left Out: 10.967+/-0.061 χ^2/NDF : 2637.7/24

Right Out: 13.692+/-0.141 χ^2/NDF : 6269.5/27

Left In: 10.813+/-0.063 χ^2/NDF : 3546.8/22

Left: 10.892+/-0.044 χ^2/NDF : 6187.5/47

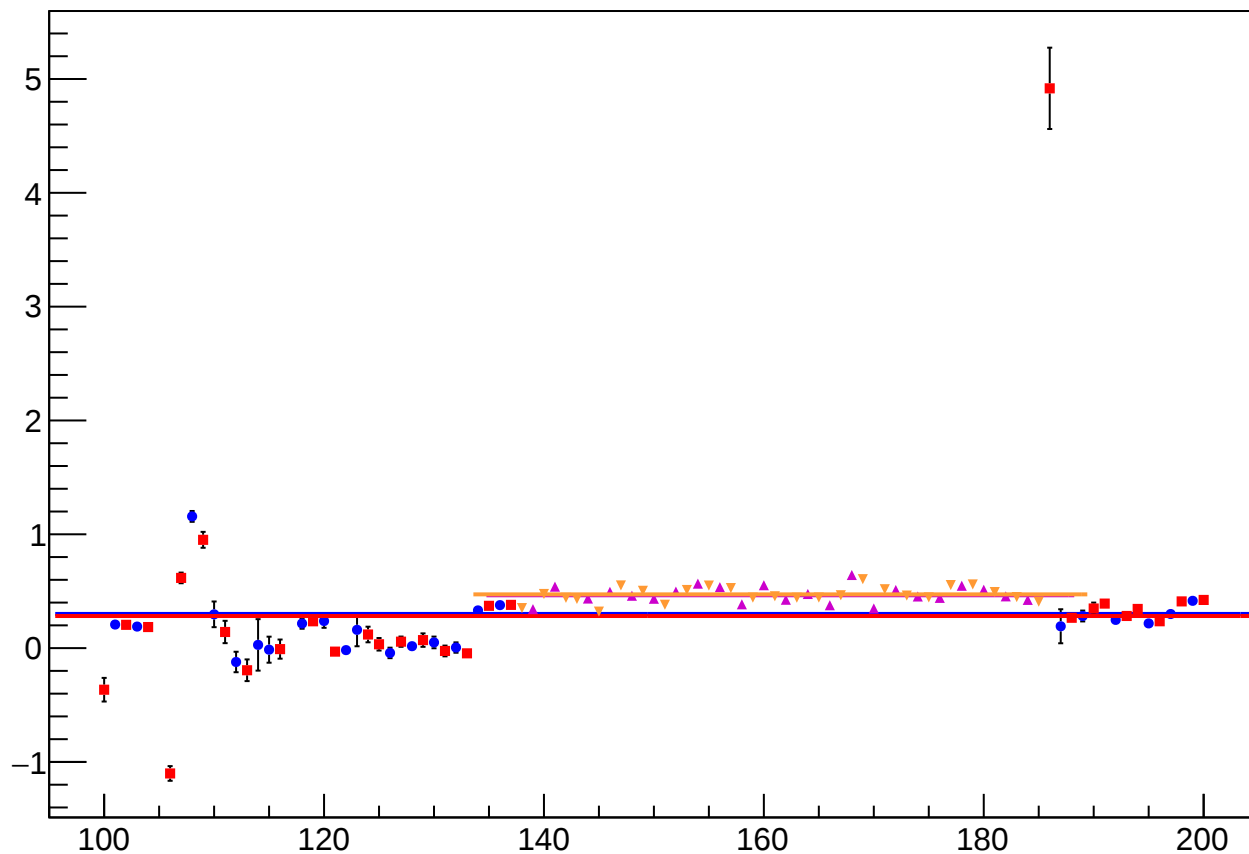
Right: 13.037+/-0.101 χ^2/NDF : 11194.9/50

In: 11.062+/-0.058 χ^2/NDF : 8523.9/45

Out: 11.402+/-0.056 χ^2/NDF : 9221.5/52

All: 11.236+/-0.040 χ^2/NDF : 17763.2/98

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.300 $\pm$ 0.007 χ^2 /NDF: 698.4/22

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF:519.0/24

Right Out: 0.282 $\pm$ 0.006 χ^2 /NDF: 1255.7/27

Left In: 0.464 $\pm$ 0.003 χ^2 /NDF:733.1/22

Left: 0.468 $\pm$ 0.002 χ^2 /NDF: 1256.2/47

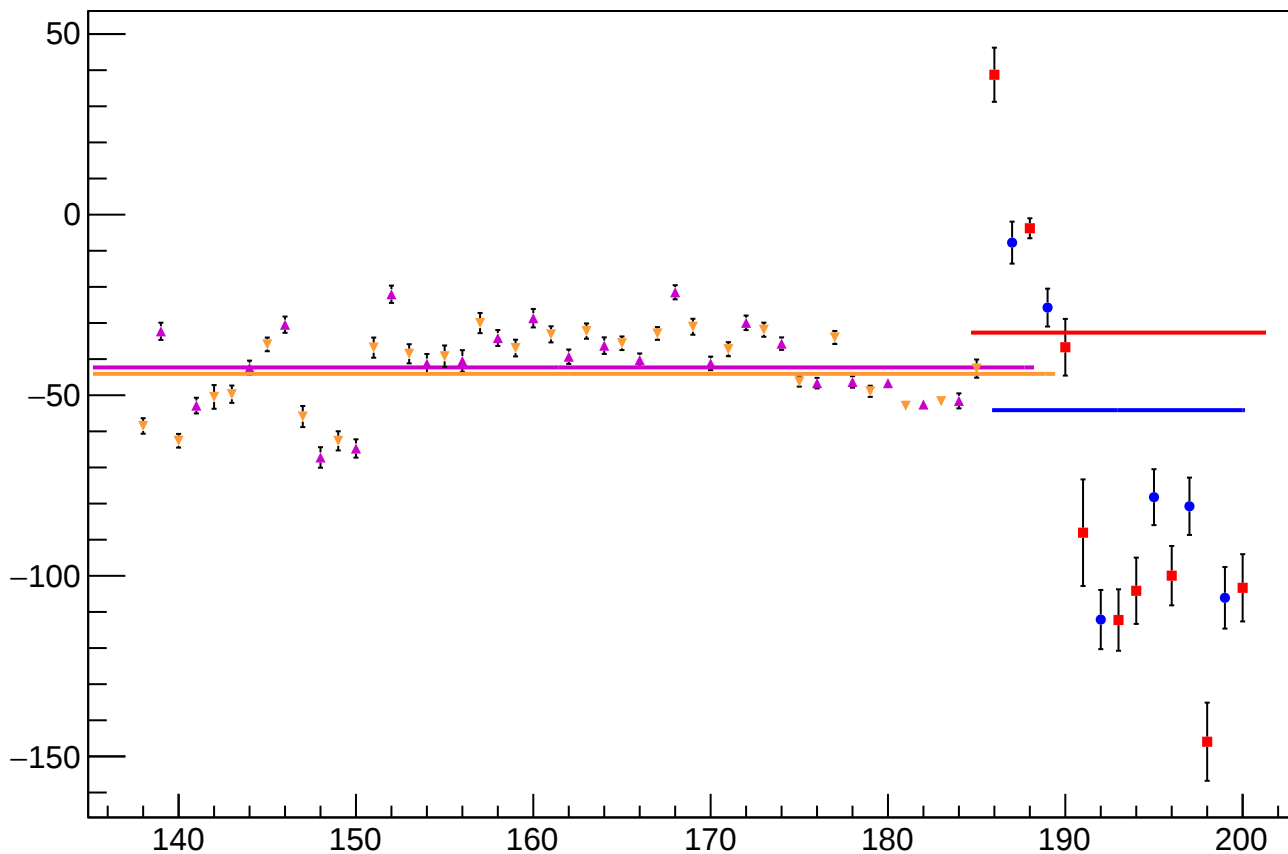
Right: 0.291 $\pm$ 0.005 χ^2 /NDF: 1958.1/50

In: 0.439 $\pm$ 0.003 χ^2 /NDF:1965.3/45

Out: 0.441 $\pm$ 0.003 χ^2 /NDF:2543.2/52

All: 0.440 $\pm$ 0.002 χ^2 /NDF: 4509.0/98

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -54.134 ± 2.804 χ^2/NDF : 201.2/5

Left Out: -44.077 ± 0.389 χ^2/NDF : 632.6/24

Right Out: -32.663 ± 2.085 χ^2/NDF : 596.6/8

Left In: -42.304 ± 0.399 χ^2/NDF : 640.6/22

Left: -43.214 ± 0.278 χ^2/NDF : 1283.3/47

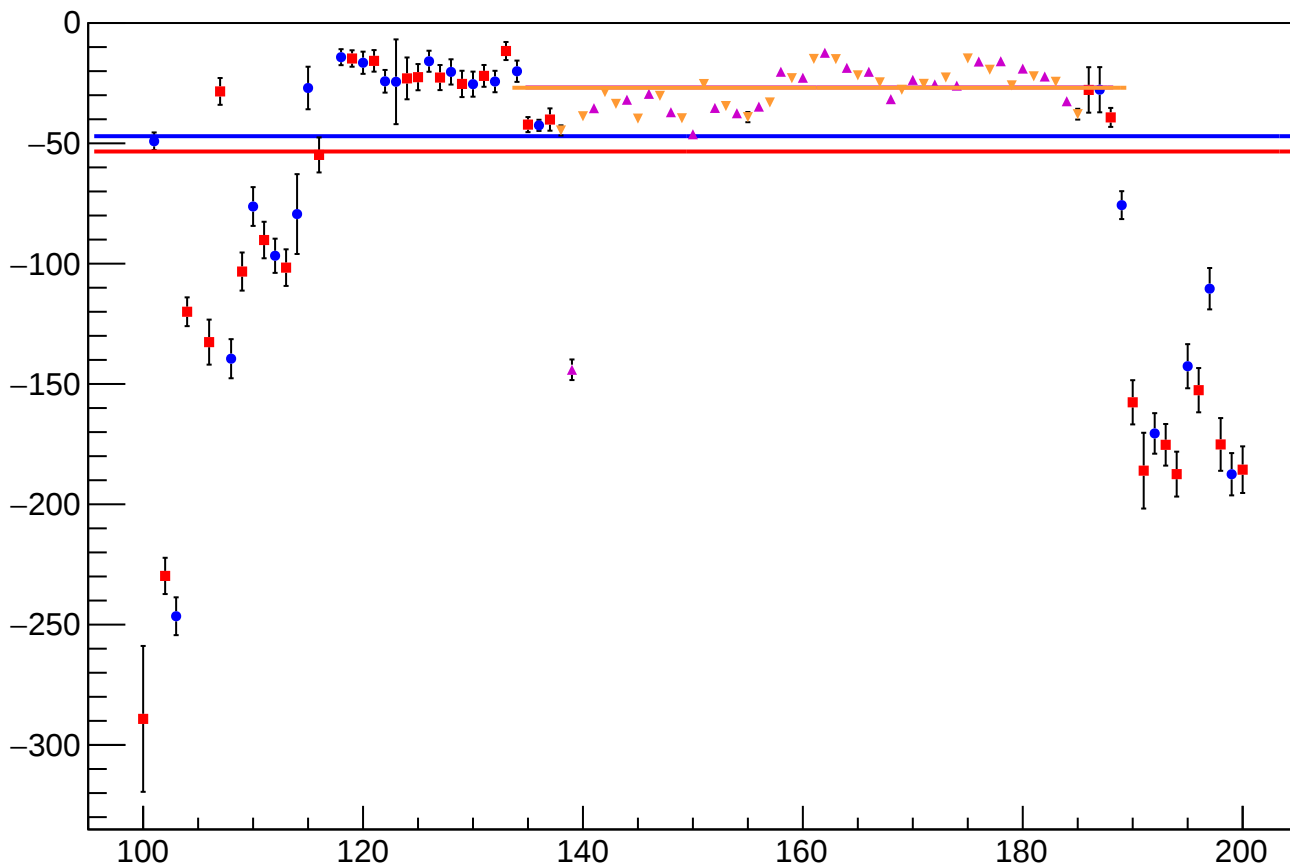
Right: -40.310 ± 1.673 χ^2/NDF : 835.5/14

In: -42.539 ± 0.395 χ^2/NDF : 859.3/28

Out: -43.694 ± 0.382 χ^2/NDF : 1258.1/33

All: -43.136 ± 0.275 χ^2/NDF : 2121.8/62

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -47.033 ± 1.085 $\chi^2/\text{NDF}: 1835.0/22$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -53.393 ± 1.099 $\chi^2/\text{NDF}: 2475.8/27$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

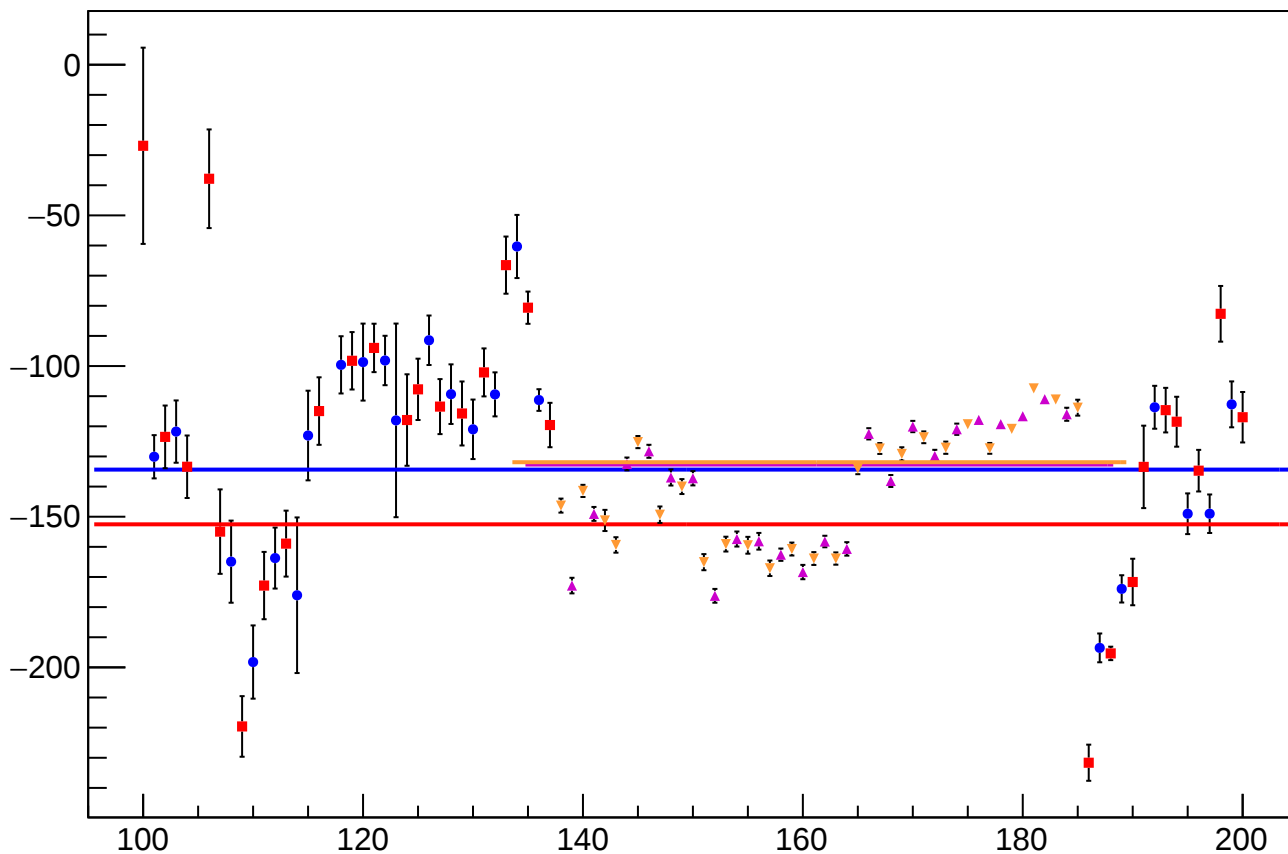
Right: -50.171 ± 0.772 $\chi^2/\text{NDF}: 4327.8/50$

In: -28.455 ± 0.312 $\chi^2/\text{NDF}: 3549.5/45$

Out: -28.928 ± 0.304 $\chi^2/\text{NDF}: 3643.4/52$

All: -28.698 ± 0.218 $\chi^2/\text{NDF}: 7194.1/98$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -134.366+/-1.569 χ^2/NDF : 481.7/22

Left Out: -131.912+/-0.391 χ^2/NDF : 2439.3/24

Right Out: -152.526+/-1.367 χ^2/NDF : 1274.5/27

Left In: -132.690+/-0.399 χ^2/NDF : 2480.2/22

Left: -132.293+/-0.280 χ^2/NDF : 4921.5/47

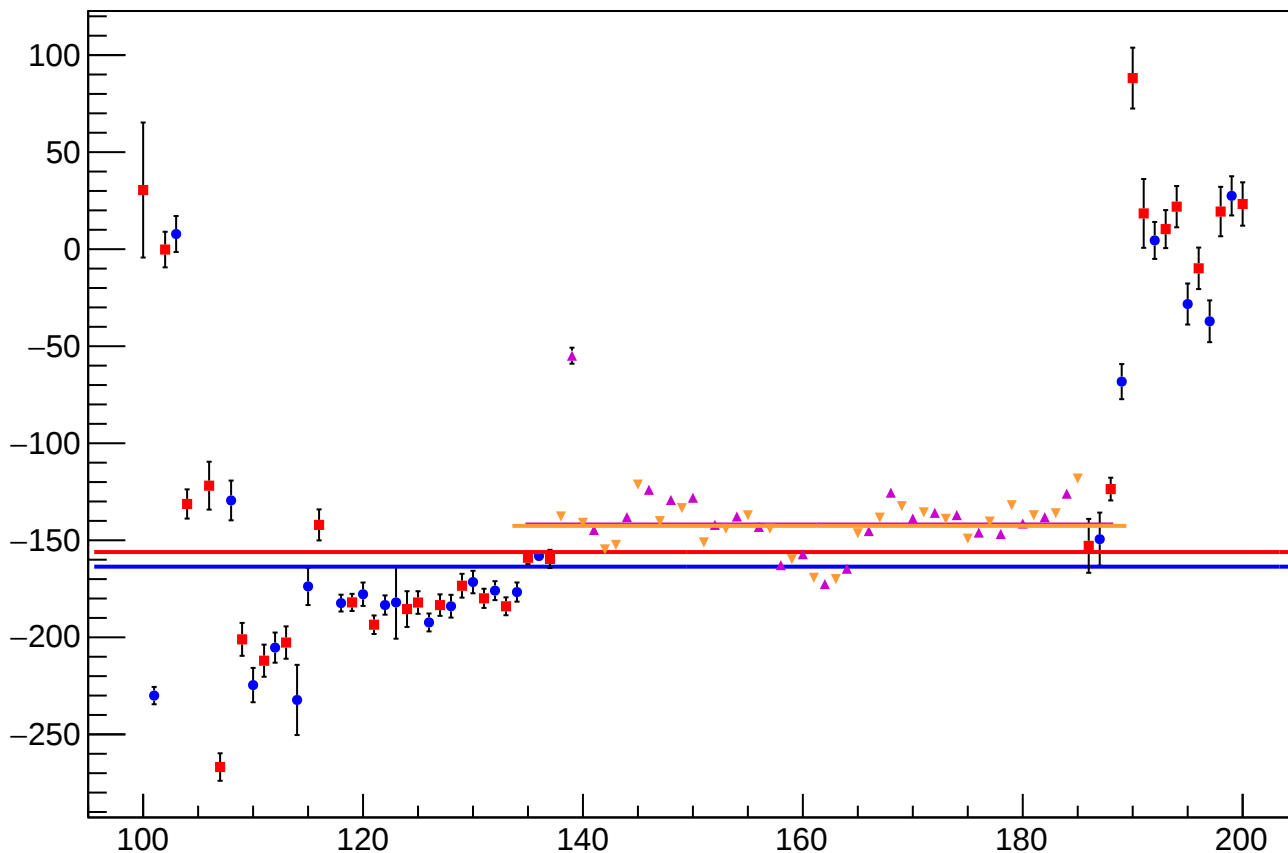
Right: -144.690+/-1.031 χ^2/NDF : 1832.3/50

In: -132.792+/-0.387 χ^2/NDF : 2963.0/45

Out: -133.475+/-0.376 χ^2/NDF : 3924.0/52

All: -133.143+/-0.270 χ^2/NDF : 6888.5/98

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -163.588 ± 1.224 χ^2/NDF : 1861.1/22

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -156.051 ± 1.264 χ^2/NDF : 2482.0/27

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

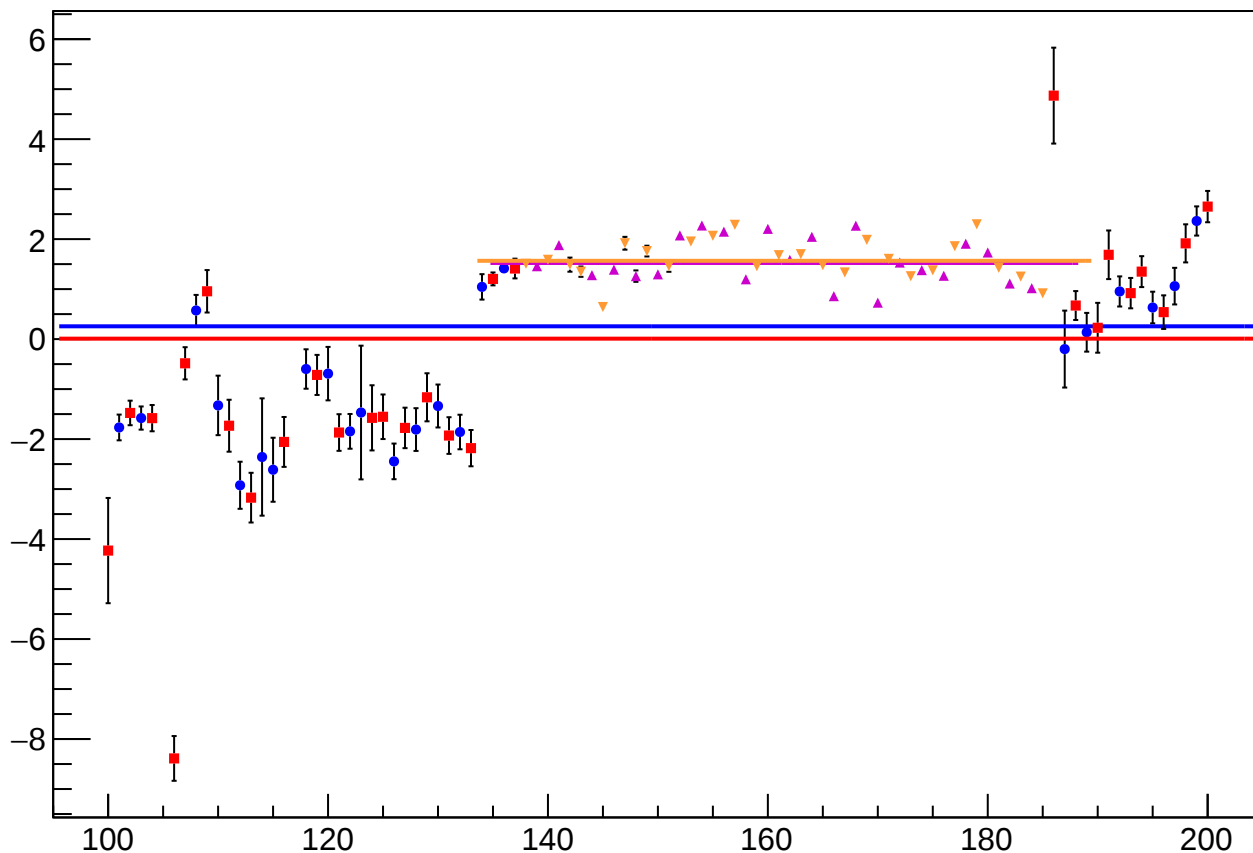
Right: -159.942 ± 0.879 χ^2/NDF : 4361.4/50

In: -143.620 ± 0.349 χ^2/NDF : 3695.0/45

Out: -143.544 ± 0.341 χ^2/NDF : 3735.2/52

All: -143.581 ± 0.244 χ^2/NDF : 7430.2/98

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.256 $\pm$ 0.061 χ^2 /NDF: 596.7/22

Left Out: 1.566 $\pm$ 0.016 χ^2 /NDF:542.8/24

Right Out: 0.009 $\pm$ 0.061 χ^2 /NDF: 961.2/27

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

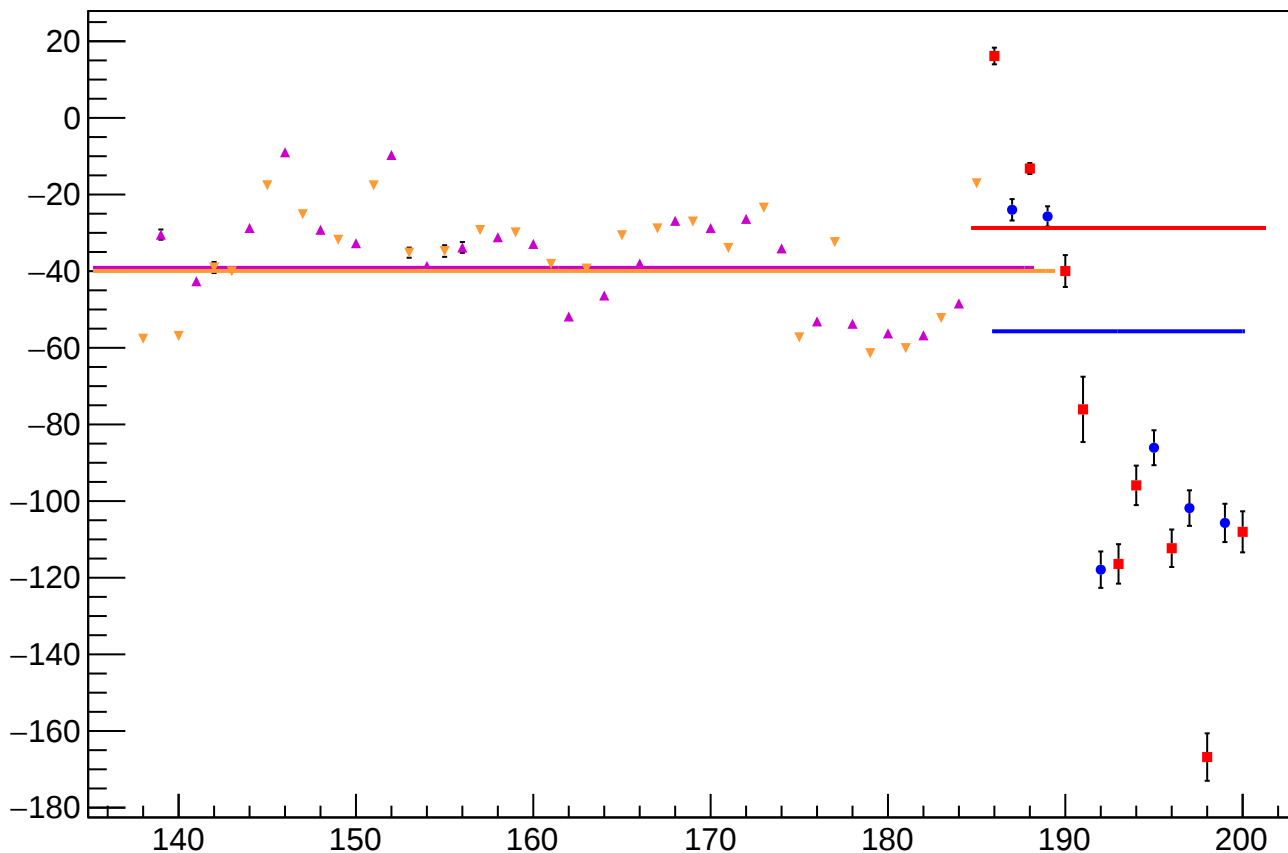
Right: 0.134 $\pm$ 0.043 χ^2 /NDF: 1566.0/50

In: 1.436 $\pm$ 0.016 χ^2 /NDF:1739.0/45

Out: 1.465 $\pm$ 0.016 χ^2 /NDF:2104.3/52

All: 1.451 $\pm$ 0.011 χ^2 /NDF: 3845.0/98

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -55.687 ± 1.490 $\chi^2/\text{NDF}: 672.4/5$

Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$

Right Out: -28.724 ± 1.029 $\chi^2/\text{NDF}: 2049.2/8$

Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

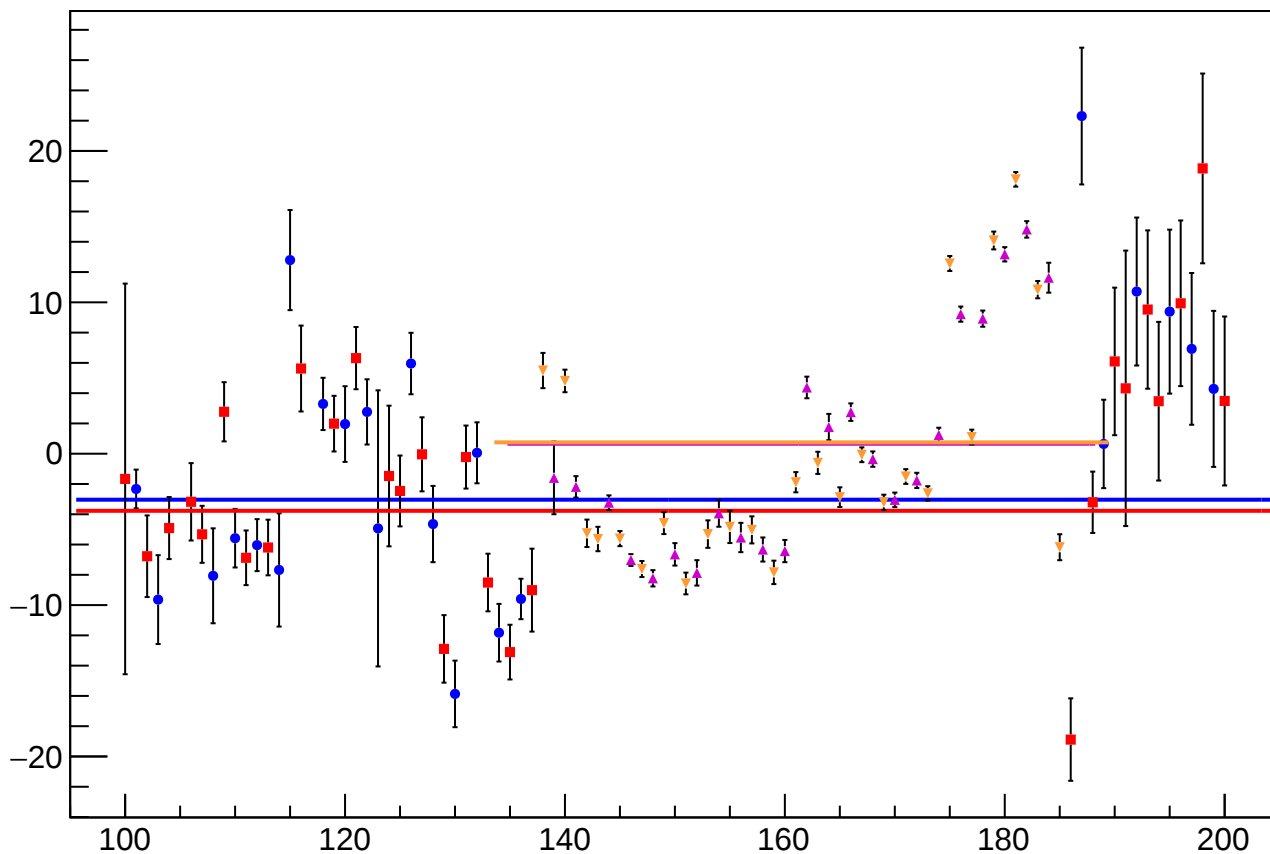
Right: -37.433 ± 0.847 $\chi^2/\text{NDF}: 2943.4/14$

In: -39.314 ± 0.154 $\chi^2/\text{NDF}: 9329.0/28$

Out: -39.692 ± 0.152 $\chi^2/\text{NDF}: 11971.9/33$

All: -39.506 ± 0.108 $\chi^2/\text{NDF}: 21303.9/62$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.038 ± 0.480 $\chi^2/\text{NDF}: 216.0/22$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.771 ± 0.473 $\chi^2/\text{NDF}: 187.3/27$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

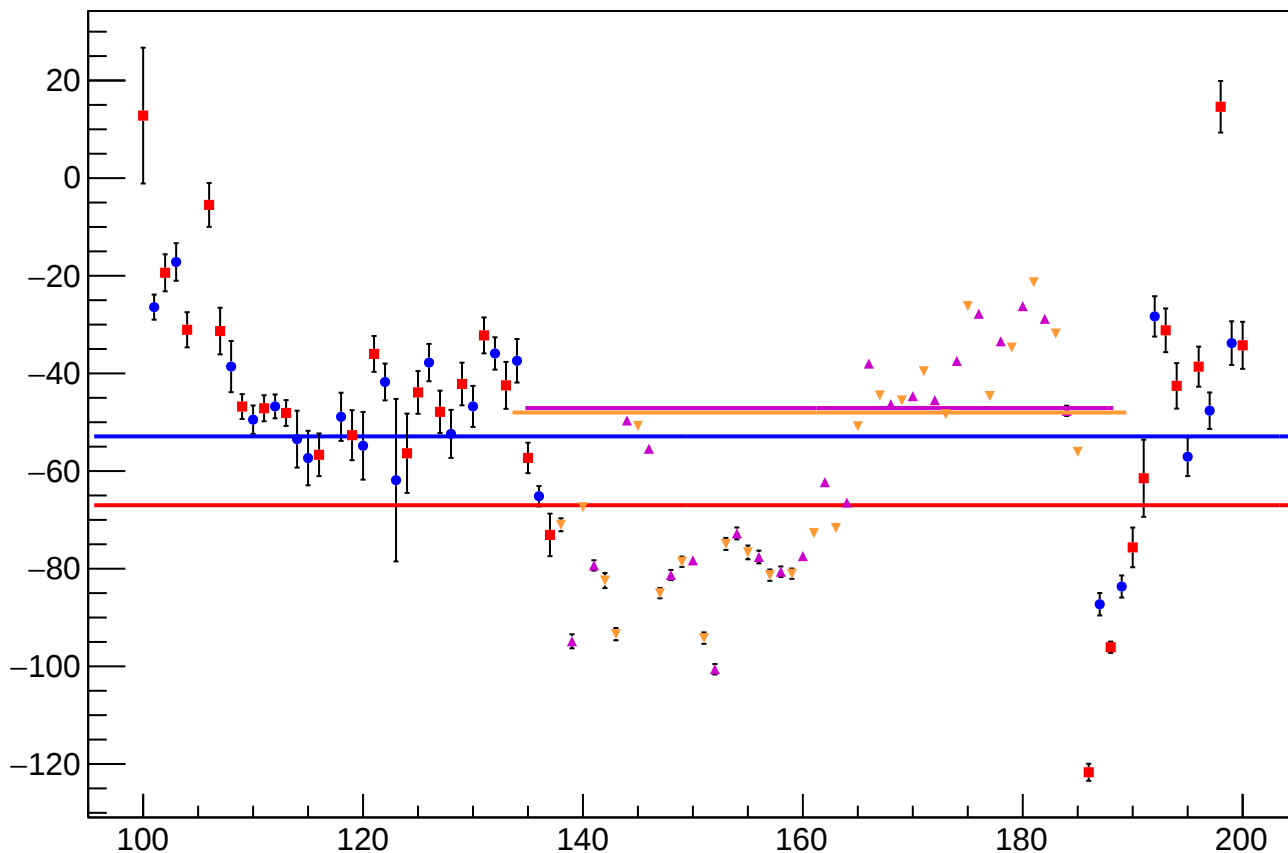
Right: -3.411 ± 0.337 $\chi^2/\text{NDF}: 404.4/50$

In: 0.428 ± 0.120 $\chi^2/\text{NDF}: 3609.3/45$

Out: 0.457 ± 0.120 $\chi^2/\text{NDF}: 4243.7/52$

All: 0.443 ± 0.085 $\chi^2/\text{NDF}: 7853.0/98$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.900 ± 0.725 χ^2/NDF : 774.1/22

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -66.998 ± 0.611 χ^2/NDF : 3037.4/27

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

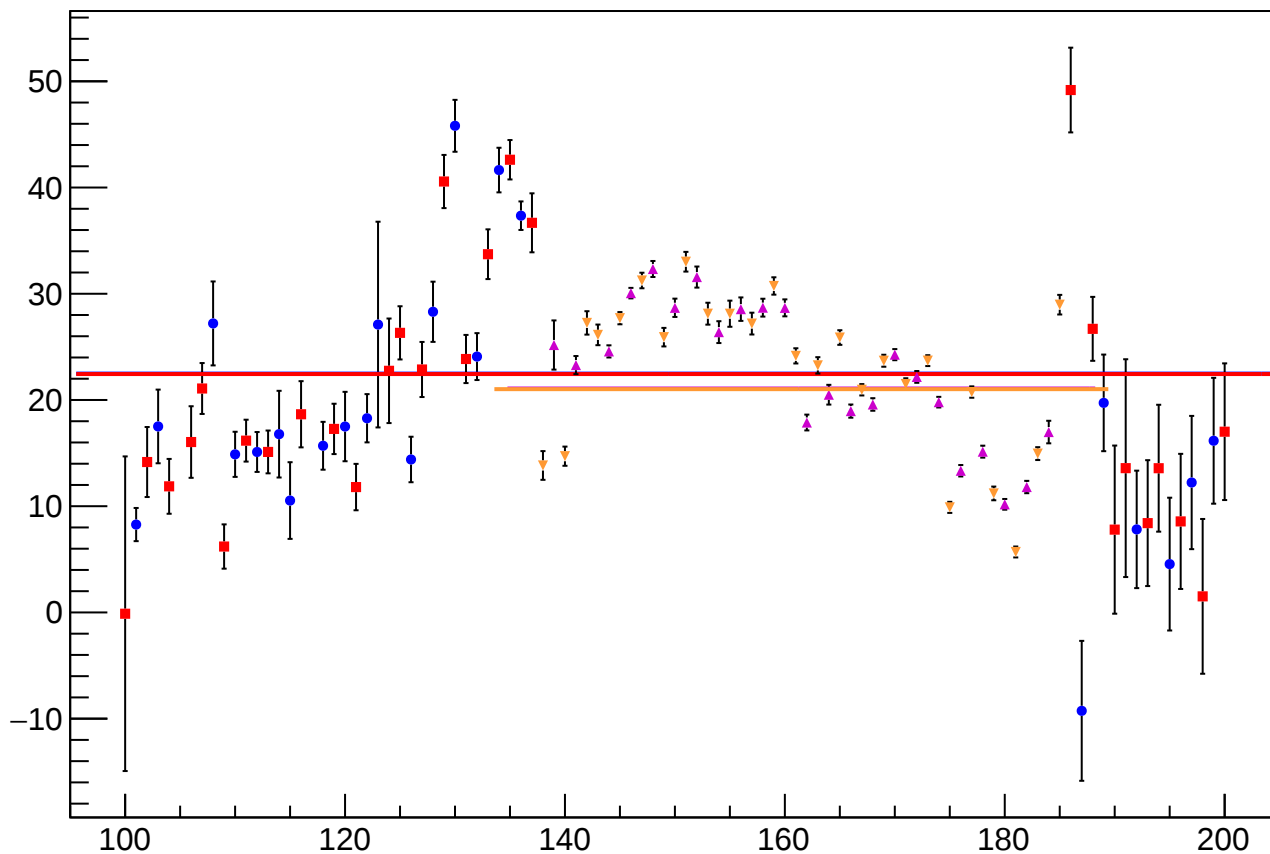
Right: -61.136 ± 0.467 χ^2/NDF : 4032.7/50

In: -47.340 ± 0.152 χ^2/NDF : 16350.9/45

Out: -49.150 ± 0.150 χ^2/NDF : 20894.5/52

All: -48.257 ± 0.107 χ^2/NDF : 37317.3/98

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.482 $\pm$ 0.544 χ^2 /NDF: 501.2/22

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.441 $\pm$ 0.545 χ^2 /NDF: 439.0/27

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

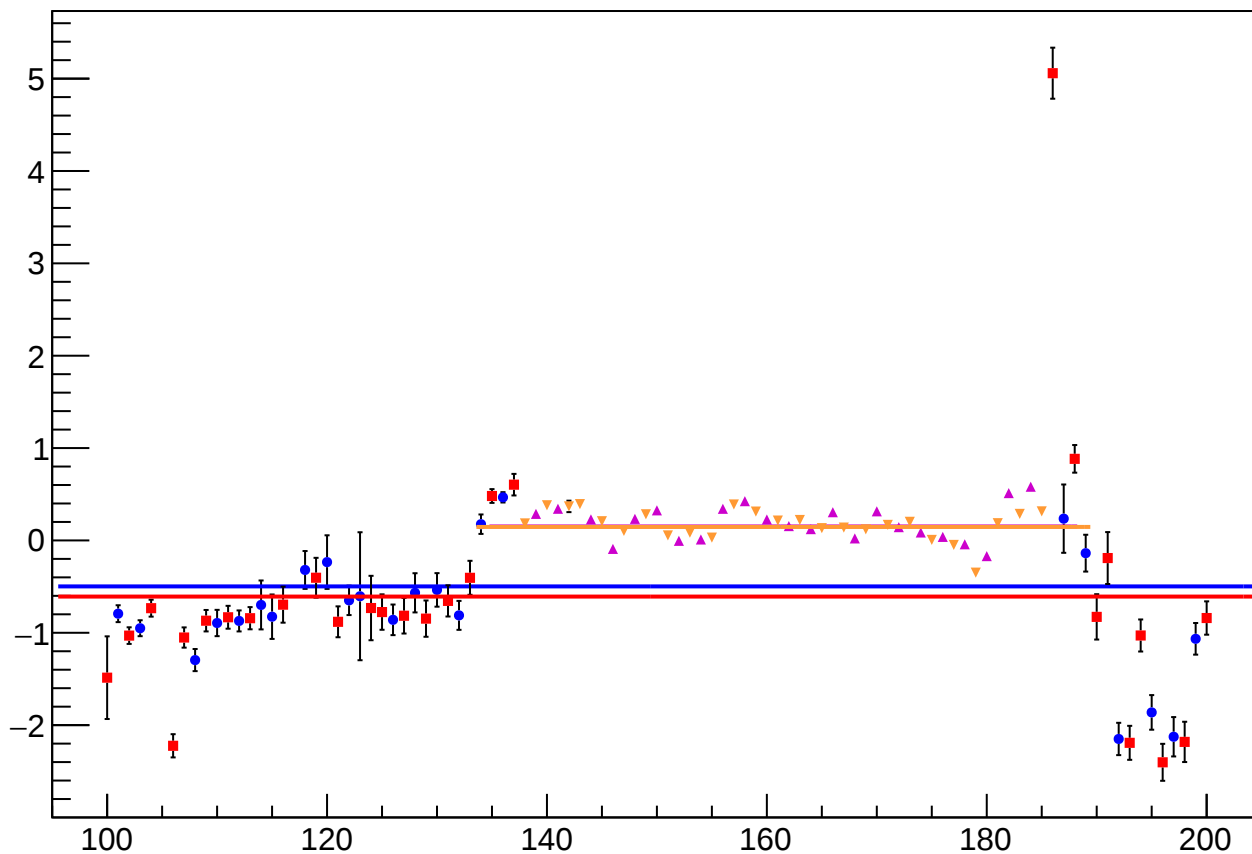
Right: 22.461 $\pm$ 0.385 χ^2 /NDF: 940.2/50

In: 21.165 $\pm$ 0.135 χ^2 /NDF:2680.6/45

Out: 21.106 $\pm$ 0.135 χ^2 /NDF:3244.6/52

All: 21.136 $\pm$ 0.095 χ^2 /NDF: 5925.4/98

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.498 ± 0.028 χ^2/NDF : 672.6/22

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.608 ± 0.028 χ^2/NDF : 1288.1/27

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

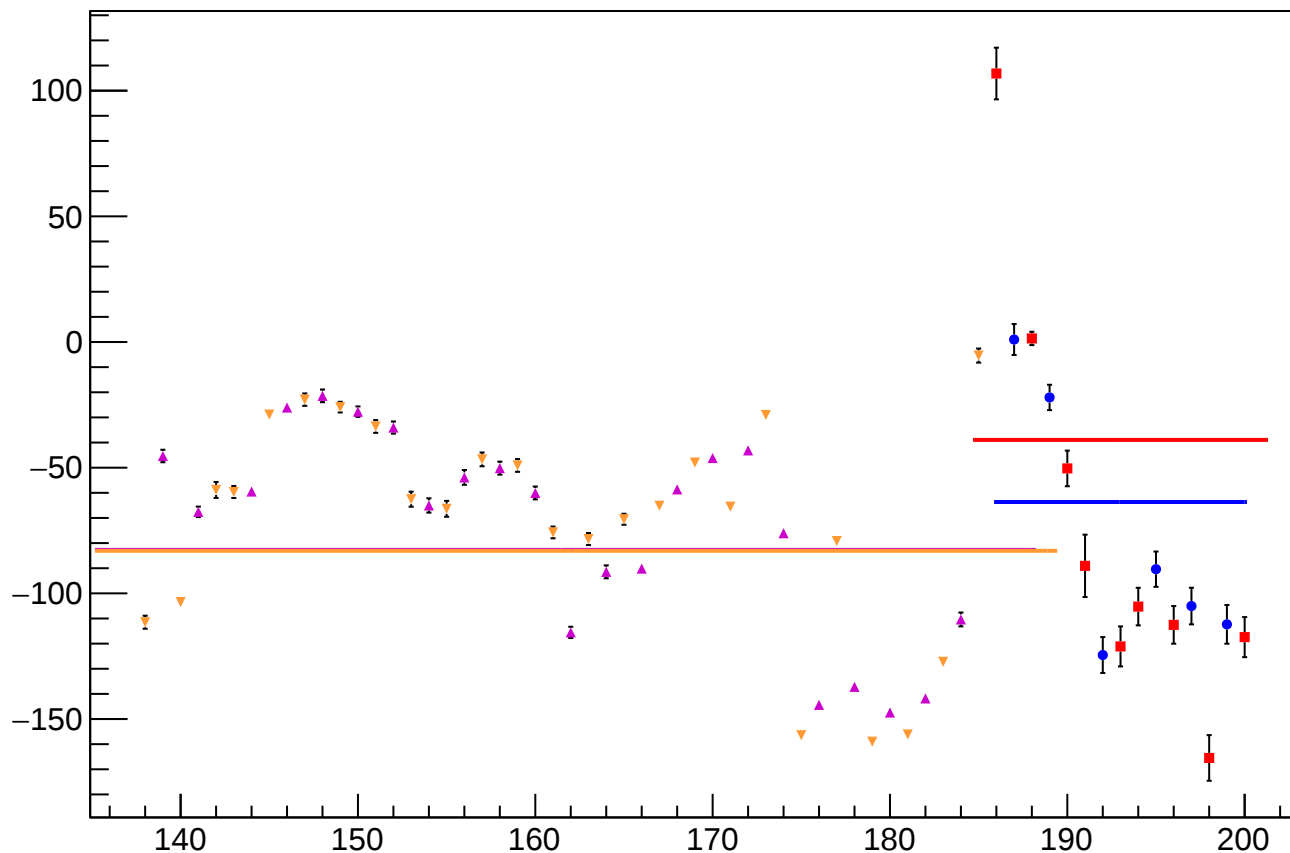
Right: -0.554 ± 0.020 χ^2/NDF : 1968.5/50

In: 0.120 ± 0.006 χ^2/NDF : 2042.9/45

Out: 0.108 ± 0.006 χ^2/NDF : 2610.8/52

All: 0.114 ± 0.004 χ^2/NDF : 4655.4/98

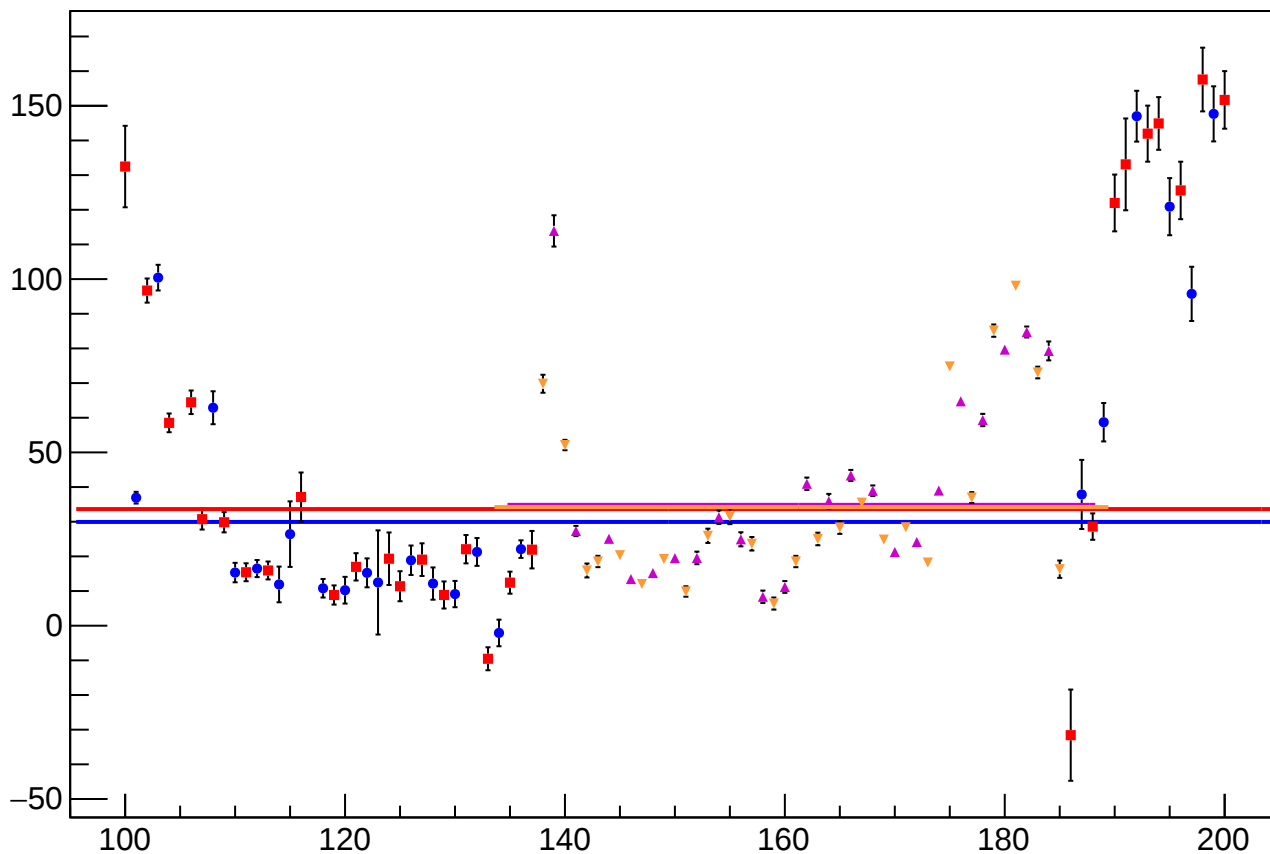
reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -63.648 $\pm$ 2.661 χ^2 /NDF: 337.5/5
 Left Out: -83.068 $\pm$ 0.406 χ^2 /NDF:13817.3/24
 Right Out: -38.940 $\pm$ 1.971 χ^2 /NDF: 1024.0/8
 Left In: -82.711 $\pm$ 0.415 χ^2 /NDF:10841.4/22

Left: -82.893 $\pm$ 0.290 χ^2 /NDF: 24659.1/47
 Right: -47.696 $\pm$ 1.584 χ^2 /NDF: 1417.2/14
 In: -82.258 $\pm$ 0.410 χ^2 /NDF:11229.0/28
 Out: -81.270 $\pm$ 0.398 χ^2 /NDF:15322.0/33
 All: -81.749 $\pm$ 0.286 χ^2 /NDF: 26553.9/62

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 29.938 $\pm$ 0.780 χ^2 /NDF: 1417.5/22

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF: 6192.6/24

Right Out: 33.652 $\pm$ 0.769 χ^2 /NDF: 2169.2/27

Left In: 34.870 $\pm$ 0.329 χ^2 /NDF: 4716.1/22

Left: 34.535 $\pm$ 0.230 χ^2 /NDF: 10910.7/47

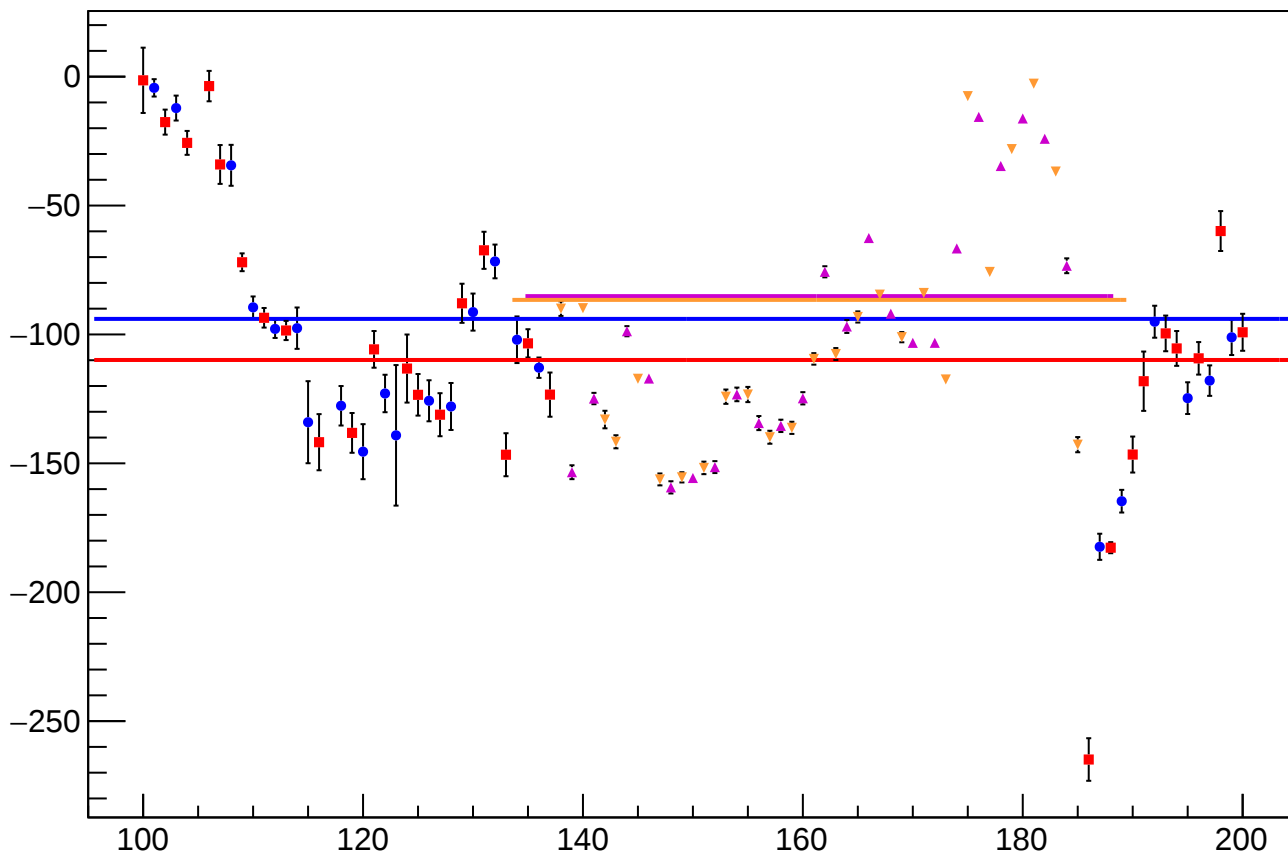
Right: 31.822 $\pm$ 0.548 χ^2 /NDF: 3598.2/50

In: 34.125 $\pm$ 0.303 χ^2 /NDF: 6167.6/45

Out: 34.135 $\pm$ 0.296 χ^2 /NDF: 8362.2/52

All: 34.130 $\pm$ 0.212 χ^2 /NDF: 14529.8/98

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -93.969 ± 1.204 χ^2/NDF : 1791.3/22

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -109.905 ± 1.048 χ^2/NDF : 3017.9/27

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

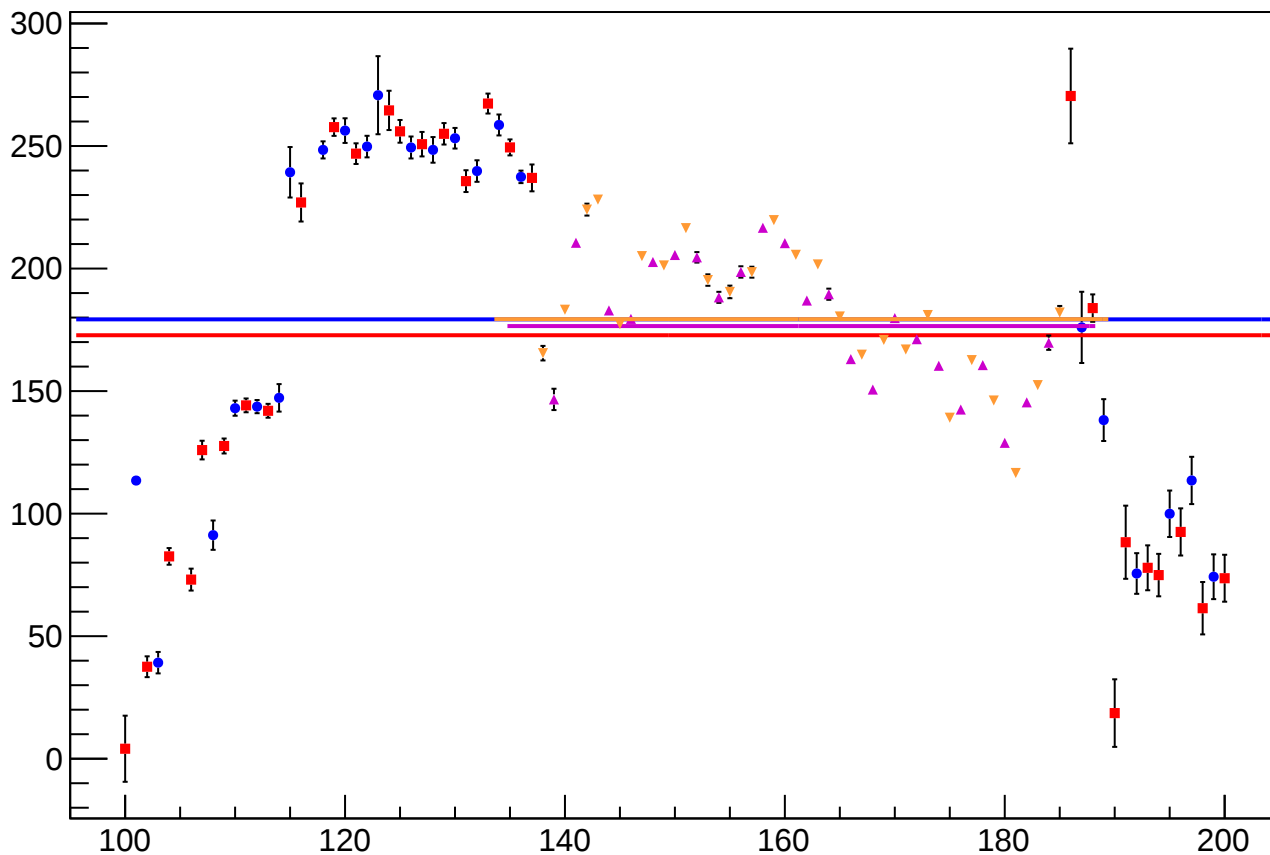
Right: -103.034 ± 0.791 χ^2/NDF : 4908.8/50

In: -86.072 ± 0.392 χ^2/NDF : 14680.7/45

Out: -89.666 ± 0.381 χ^2/NDF : 17962.7/52

All: -87.924 ± 0.273 χ^2/NDF : 32686.7/98

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 179.270 ± 0.895 $\chi^2/\text{NDF}: 5767.0/22$

Left Out: 179.359 ± 0.362 $\chi^2/\text{NDF}: 5982.2/24$

Right Out: 172.791 ± 0.888 $\chi^2/\text{NDF}: 7073.6/27$

Left In: 176.531 ± 0.371 $\chi^2/\text{NDF}: 4426.0/22$

Left: 177.980 ± 0.259 $\chi^2/\text{NDF}: 10438.0/47$

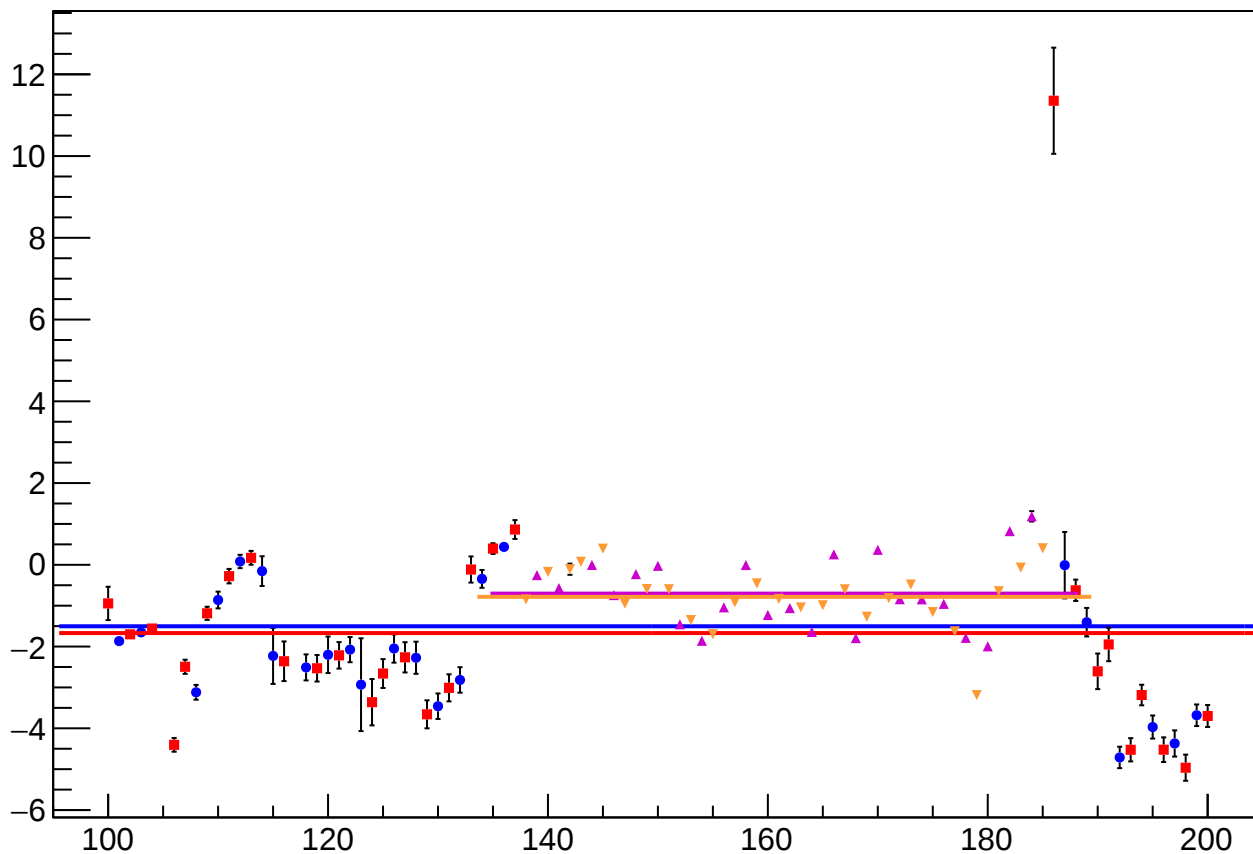
Right: 176.003 ± 0.630 $\chi^2/\text{NDF}: 12867.0/50$

In: 176.933 ± 0.343 $\chi^2/\text{NDF}: 10200.9/45$

Out: 178.423 ± 0.335 $\chi^2/\text{NDF}: 13102.8/52$

All: 177.695 ± 0.240 $\chi^2/\text{NDF}: 23313.4/98$

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.504 ± 0.045 $\chi^2/\text{NDF}: 1038.9/22$

Left Out: -0.783 ± 0.017 $\chi^2/\text{NDF}: 1771.6/24$

Right Out: -1.670 ± 0.042 $\chi^2/\text{NDF}: 1468.2/27$

Left In: -0.705 ± 0.017 $\chi^2/\text{NDF}: 2407.7/22$

Left: -0.745 ± 0.012 $\chi^2/\text{NDF}: 4190.3/47$

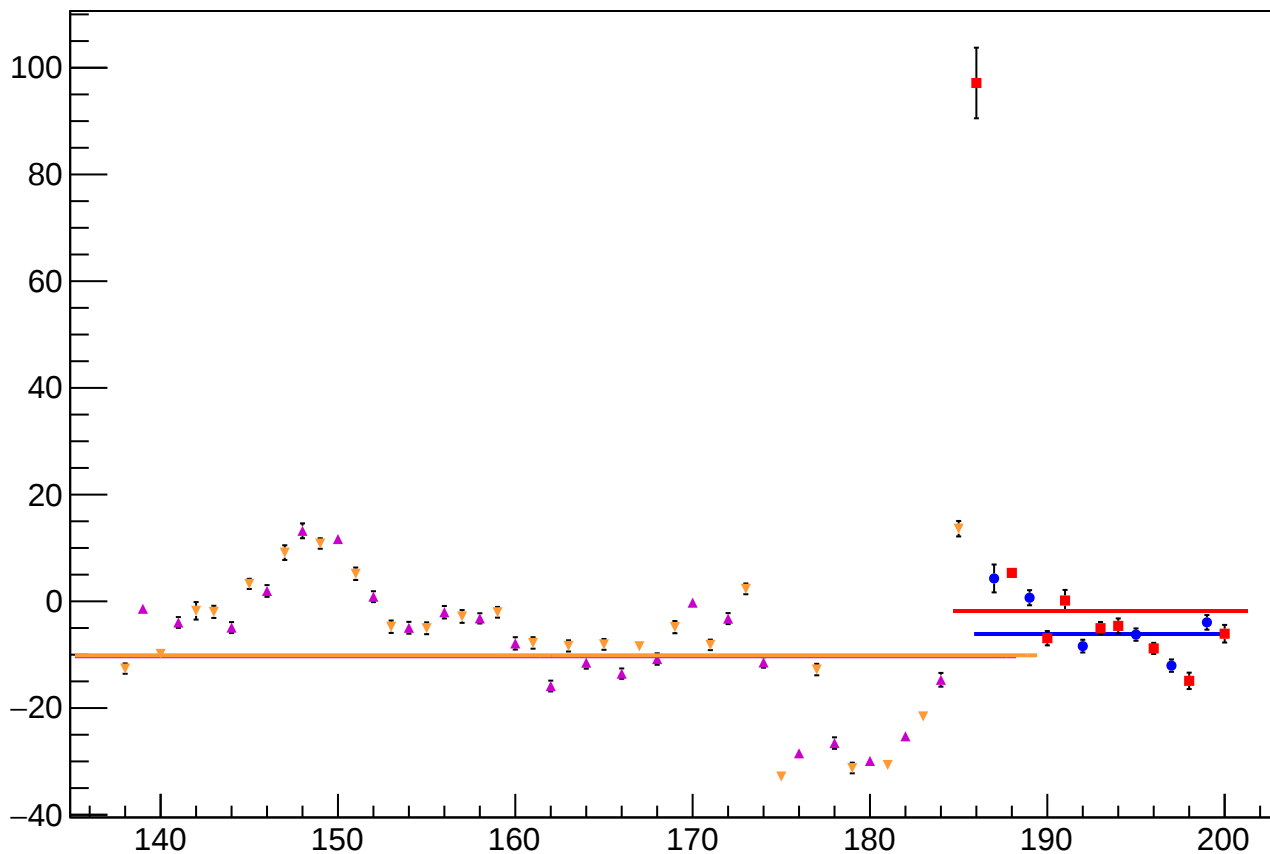
Right: -1.593 ± 0.031 $\chi^2/\text{NDF}: 2514.3/50$

In: -0.803 ± 0.016 $\chi^2/\text{NDF}: 3721.4/45$

Out: -0.903 ± 0.015 $\chi^2/\text{NDF}: 3624.0/52$

All: -0.854 ± 0.011 $\chi^2/\text{NDF}: 7365.7/98$

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.123 ± 0.546 $\chi^2/\text{NDF}: 71.0/5$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -1.812 ± 0.400 $\chi^2/\text{NDF}: 499.4/8$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

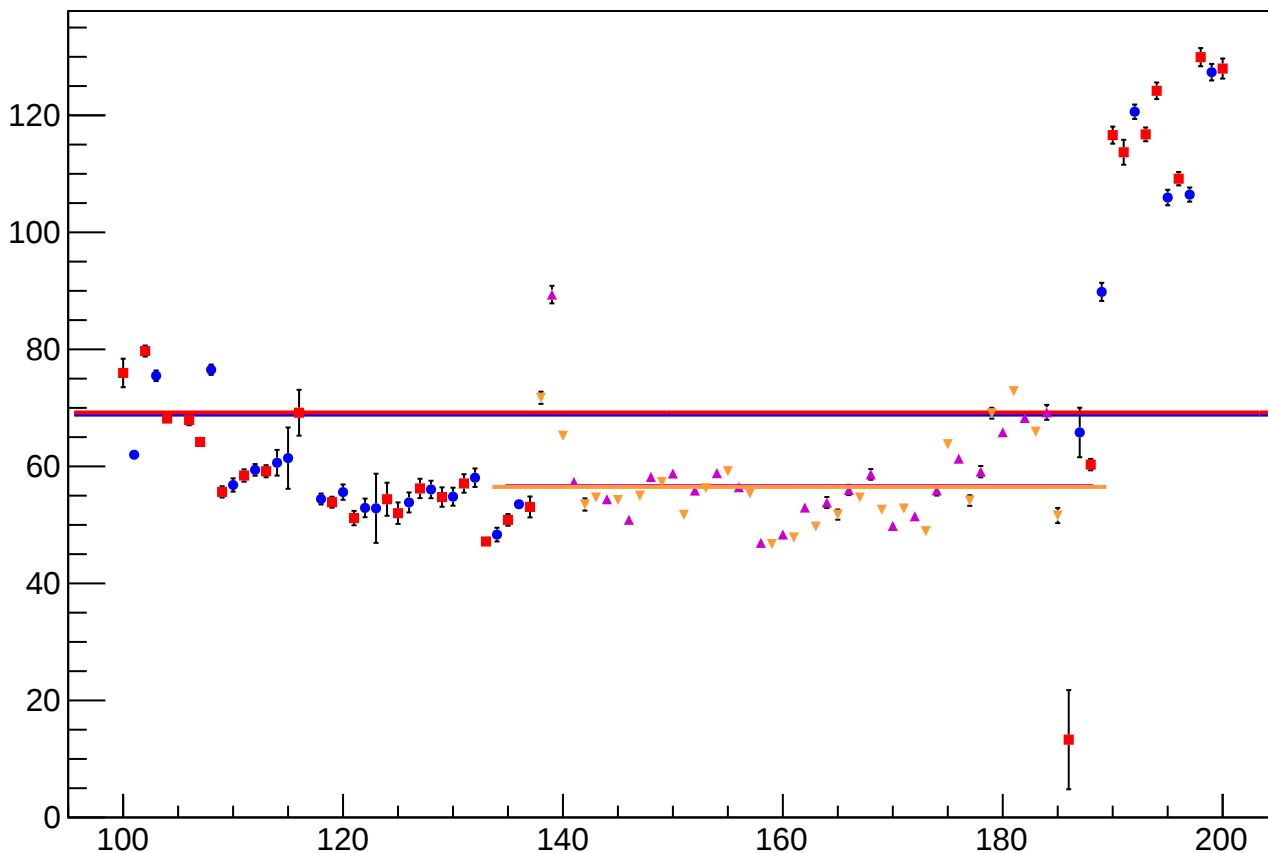
Right: -3.321 ± 0.323 $\chi^2/\text{NDF}: 611.0/14$

In: -9.773 ± 0.192 $\chi^2/\text{NDF}: 3573.1/28$

Out: -8.441 ± 0.180 $\chi^2/\text{NDF}: 4980.8/33$

All: -9.063 ± 0.131 $\chi^2/\text{NDF}: 8579.5/62$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 68.850+/-0.240 χ^2/NDF : 7307.2/22

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 69.213+/-0.219 χ^2/NDF : 11546.9/27

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

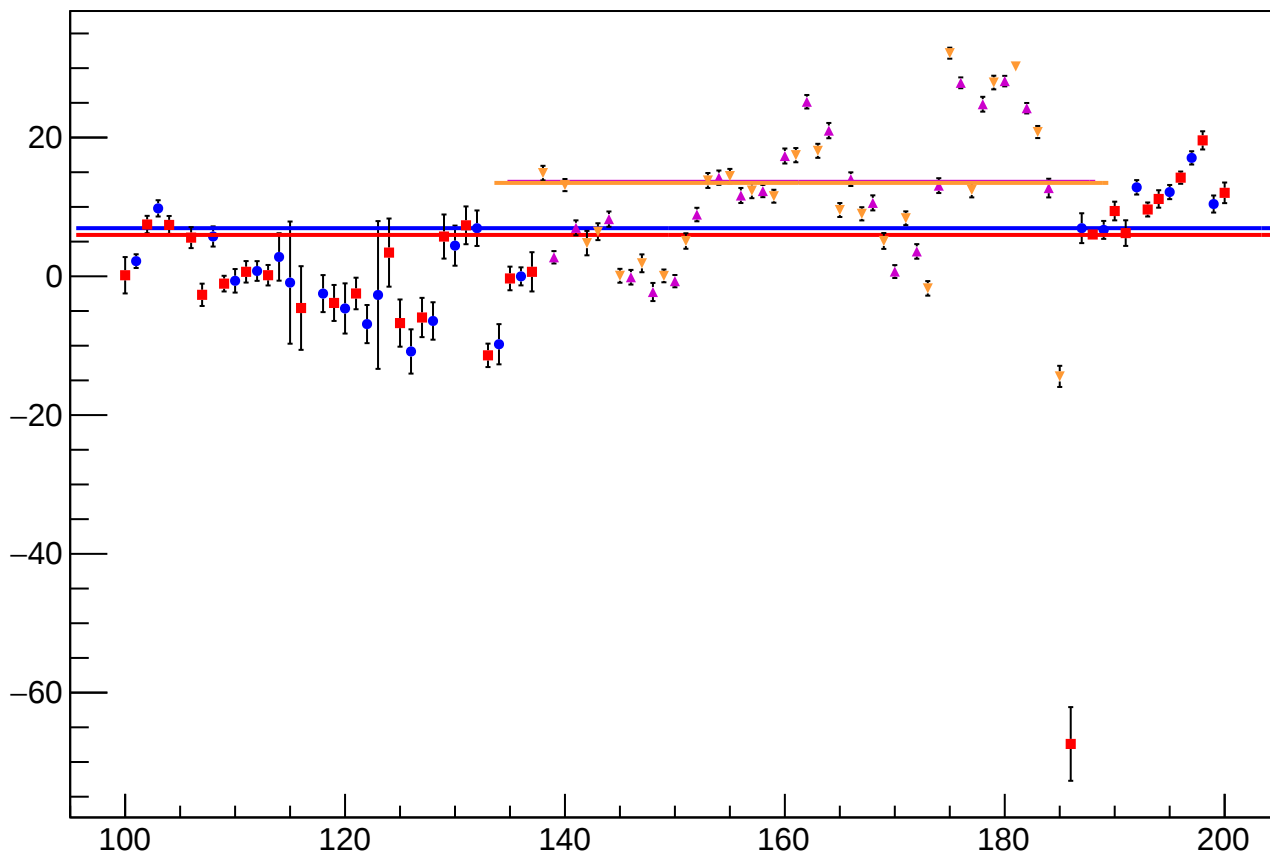
Right: 69.048+/-0.162 χ^2/NDF : 18855.3/50

In: 60.551+/-0.136 χ^2/NDF :10669.4/45

Out: 60.868+/-0.129 χ^2/NDF :15717.6/52

All: 60.718+/-0.094 χ^2/NDF : 26389.8/98

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.938 ± 0.330 χ^2/NDF : 415.9/22

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 5.964 ± 0.267 χ^2/NDF : 728.0/27

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

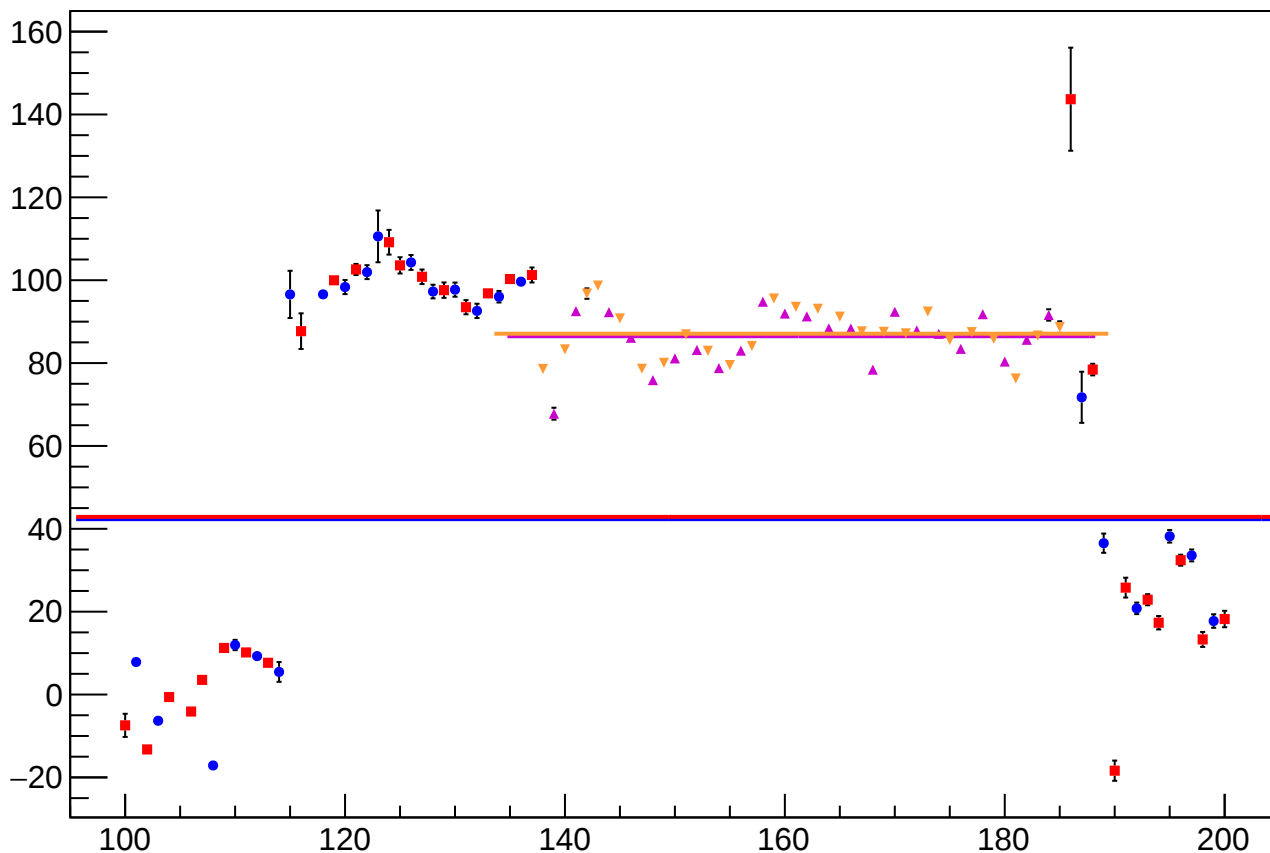
Right: 6.349 ± 0.207 χ^2/NDF : 1149.1/50

In: 11.766 ± 0.174 χ^2/NDF : 3027.5/45

Out: 10.738 ± 0.161 χ^2/NDF : 3967.4/52

All: 11.212 ± 0.118 χ^2/NDF : 7013.8/98

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.330 $\pm$ 0.280 χ^2 /NDF: 25308.0/22

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.878 $\pm$ 0.260 χ^2 /NDF: 30680.6/27

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

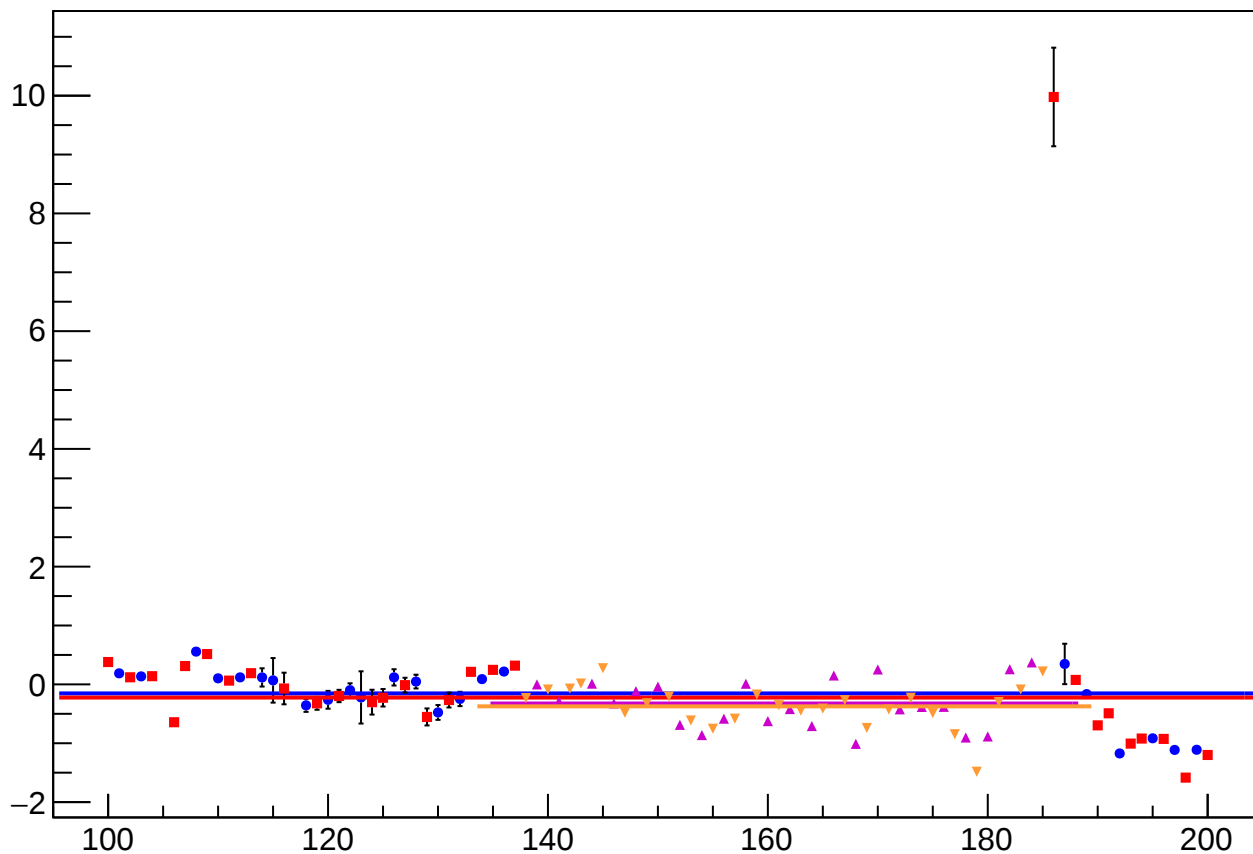
Right: 42.625 $\pm$ 0.190 χ^2 /NDF: 55990.6/50

In: 73.093 $\pm$ 0.154 χ^2 /NDF:43656.3/45

Out: 72.826 $\pm$ 0.147 χ^2 /NDF:51425.9/52

All: 72.953 $\pm$ 0.107 χ^2 /NDF: 95083.7/98

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.154 ± 0.012 χ^2/NDF : 2546.5/22

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.224 ± 0.011 χ^2/NDF : 3218.5/27

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

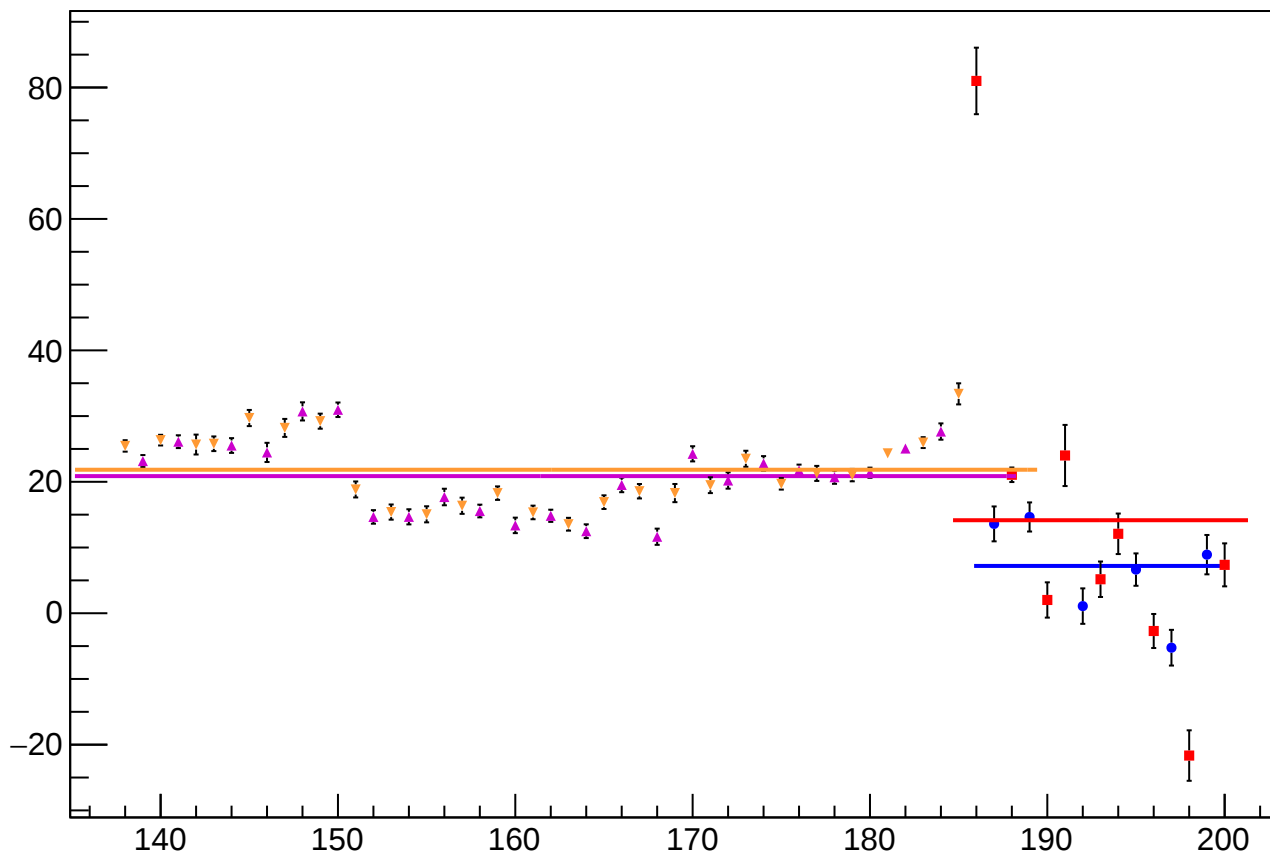
Right: -0.193 ± 0.008 χ^2/NDF : 5784.5/50

In: -0.269 ± 0.007 χ^2/NDF : 4972.5/45

Out: -0.318 ± 0.006 χ^2/NDF : 5011.6/52

All: -0.295 ± 0.005 χ^2/NDF : 10011.6/98

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.199 ± 1.057 $\chi^2/\text{NDF}: 43.6/5$

Left Out: 21.836 ± 0.210 $\chi^2/\text{NDF}: 524.3/24$

Right Out: 14.153 ± 0.792 $\chi^2/\text{NDF}: 383.4/8$

Left In: 20.866 ± 0.217 $\chi^2/\text{NDF}: 576.9/22$

Left: 21.366 ± 0.151 $\chi^2/\text{NDF}: 1111.6/47$

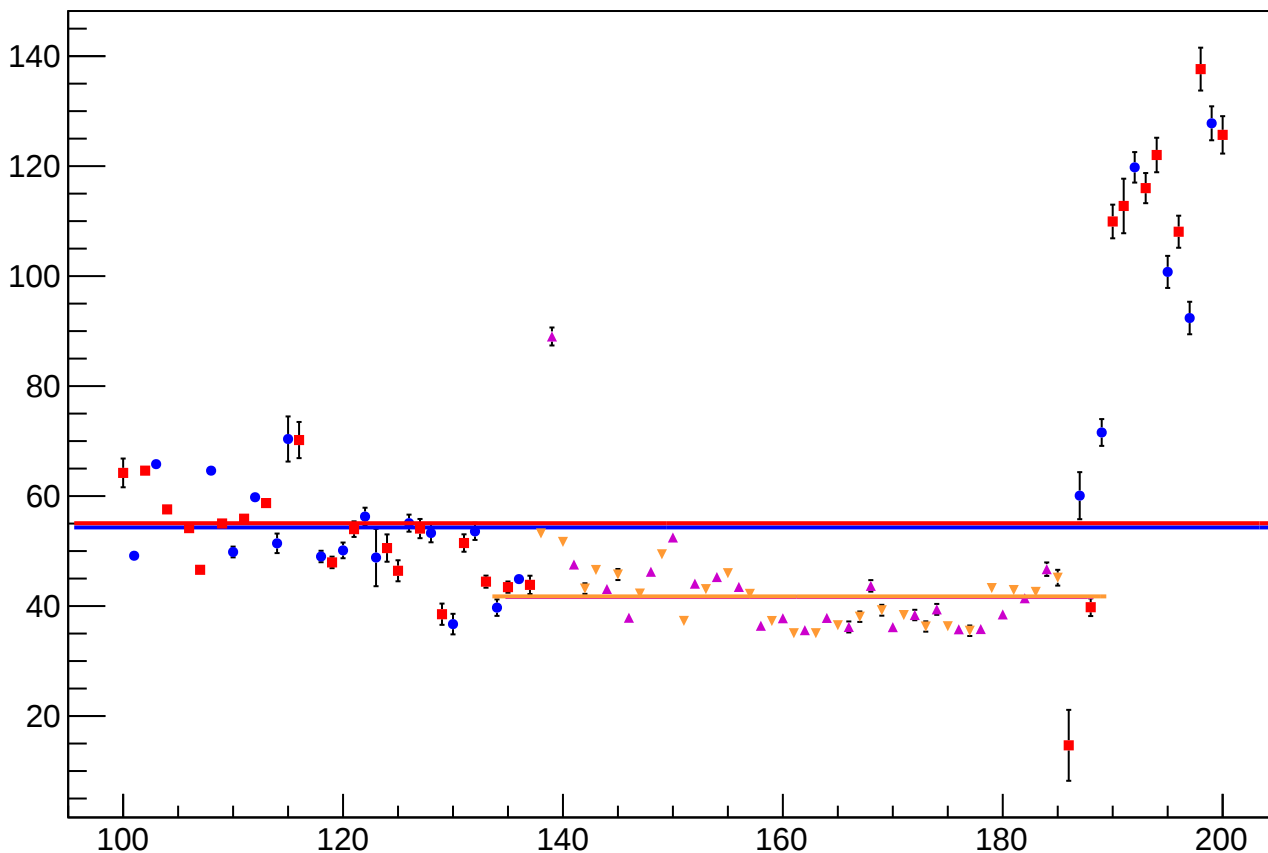
Right: 11.651 ± 0.634 $\chi^2/\text{NDF}: 454.8/14$

In: 20.315 ± 0.212 $\chi^2/\text{NDF}: 781.0/28$

Out: 21.333 ± 0.203 $\chi^2/\text{NDF}: 995.7/33$

All: 20.847 ± 0.147 $\chi^2/\text{NDF}: 1788.7/62$

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 54.298+/-0.208 χ^2/NDF : 2832.4/22

Left Out: 41.757+/-0.165 χ^2/NDF :1015.7/24

Right Out: 55.065+/-0.221 χ^2/NDF : 3682.4/27

Left In: 41.643+/-0.174 χ^2/NDF :1611.0/22

Left: 41.703+/-0.120 χ^2/NDF : 2626.9/47

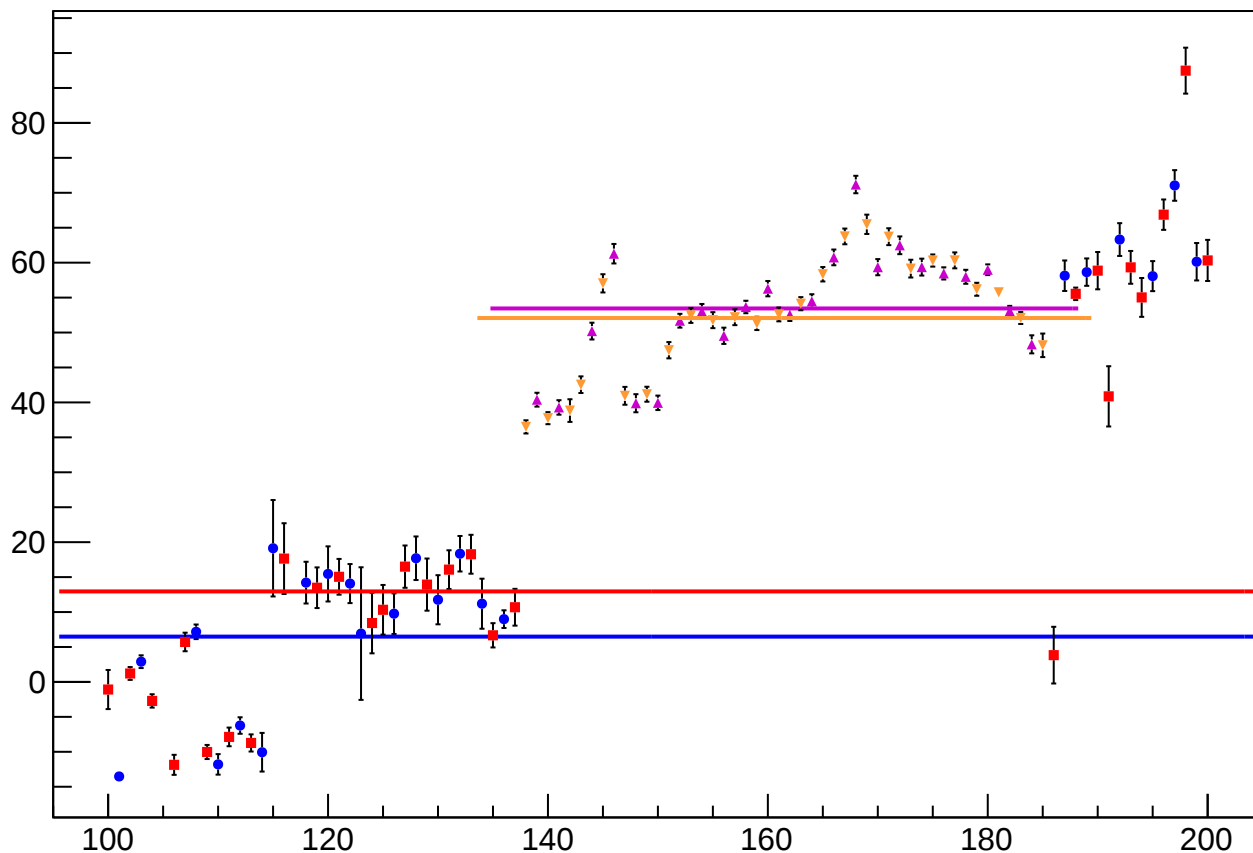
Right: 54.658+/-0.151 χ^2/NDF : 6521.1/50

In: 46.849+/-0.133 χ^2/NDF :6624.9/45

Out: 46.537+/-0.132 χ^2/NDF :7024.5/52

All: 46.692+/-0.094 χ^2/NDF : 13652.2/98

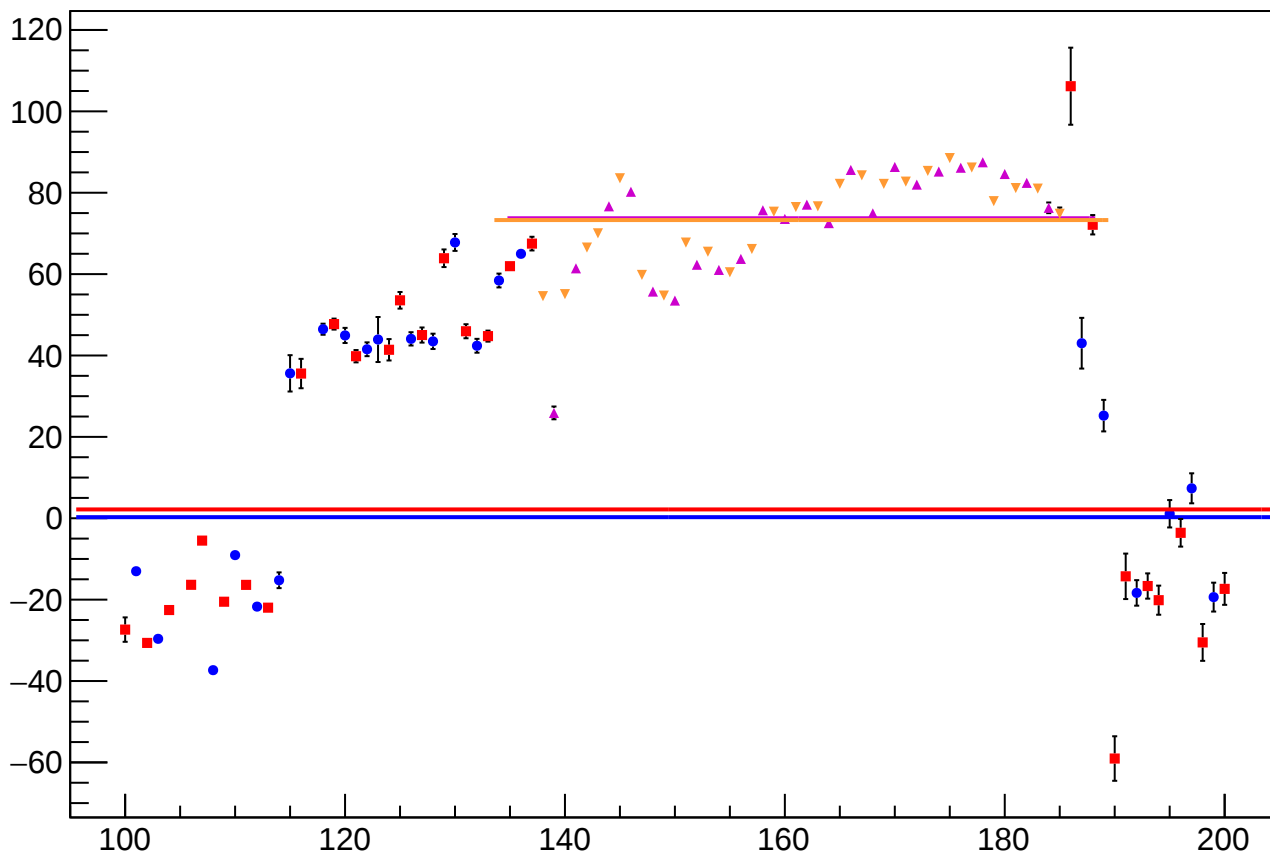
reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.484 ± 0.338 $\chi^2/\text{NDF}: 5128.0/22$
 Left Out: 52.076 ± 0.210 $\chi^2/\text{NDF}: 1450.9/24$
 Right Out: 12.952 ± 0.328 $\chi^2/\text{NDF}: 6509.4/27$
 Left In: 53.447 ± 0.215 $\chi^2/\text{NDF}: 1169.0/22$

Left: 52.744 ± 0.150 $\chi^2/\text{NDF}: 2640.6/47$
 Right: 9.813 ± 0.236 $\chi^2/\text{NDF}: 11825.5/50$
 In: 39.905 ± 0.182 $\chi^2/\text{NDF}: 20010.4/45$
 Out: 40.725 ± 0.177 $\chi^2/\text{NDF}: 18030.0/52$
 All: 40.326 ± 0.127 $\chi^2/\text{NDF}: 38050.9/98$

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.269 ± 0.244 χ^2/NDF : 18378.3/22

Left Out: 73.284 ± 0.187 χ^2/NDF : 3144.2/24

Right Out: 2.171 ± 0.261 χ^2/NDF : 16686.0/27

Left In: 73.730 ± 0.194 χ^2/NDF : 3775.8/22

Left: 73.498 ± 0.135 χ^2/NDF : 6922.7/47

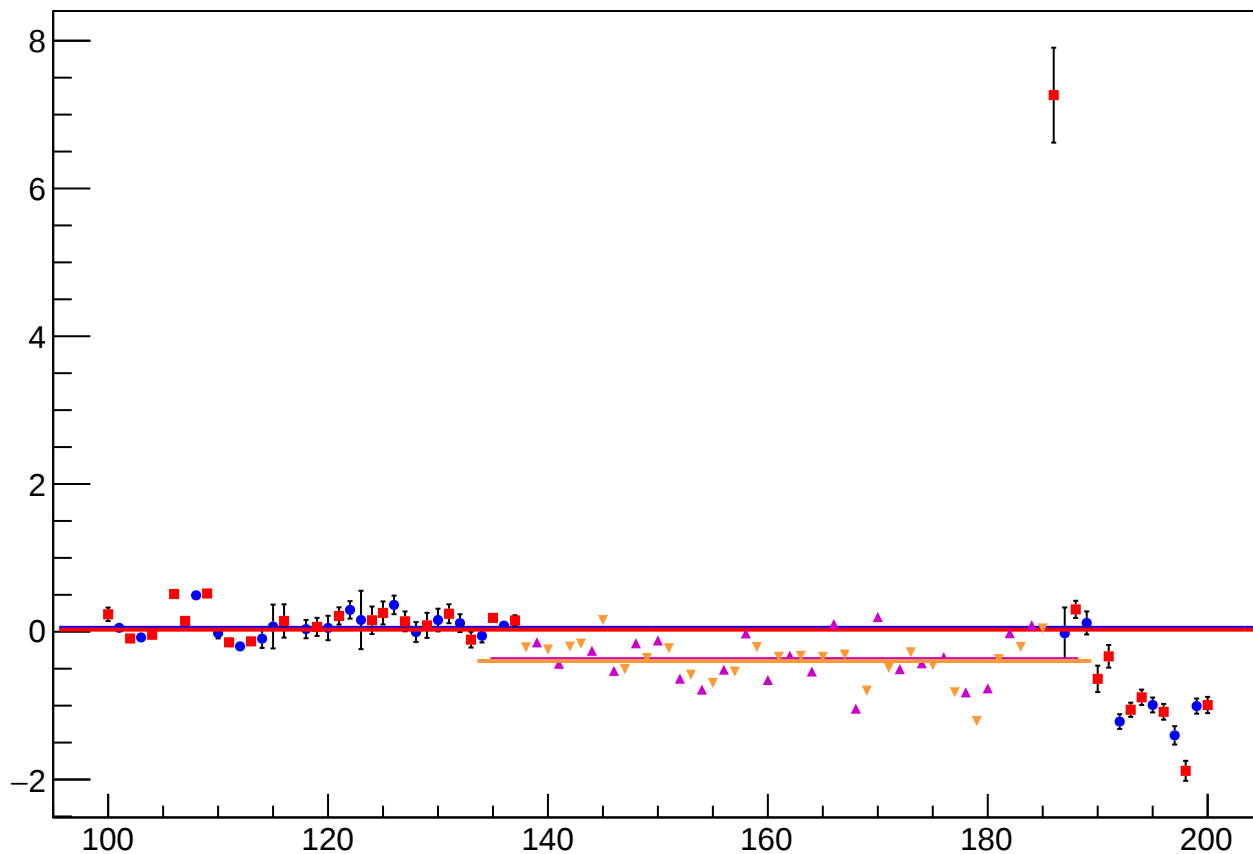
Right: 1.158 ± 0.178 χ^2/NDF : 35092.5/50

In: 45.275 ± 0.152 χ^2/NDF : 77503.2/45

Out: 49.182 ± 0.152 χ^2/NDF : 68925.2/52

All: 47.231 ± 0.107 χ^2/NDF : 146758.5/98

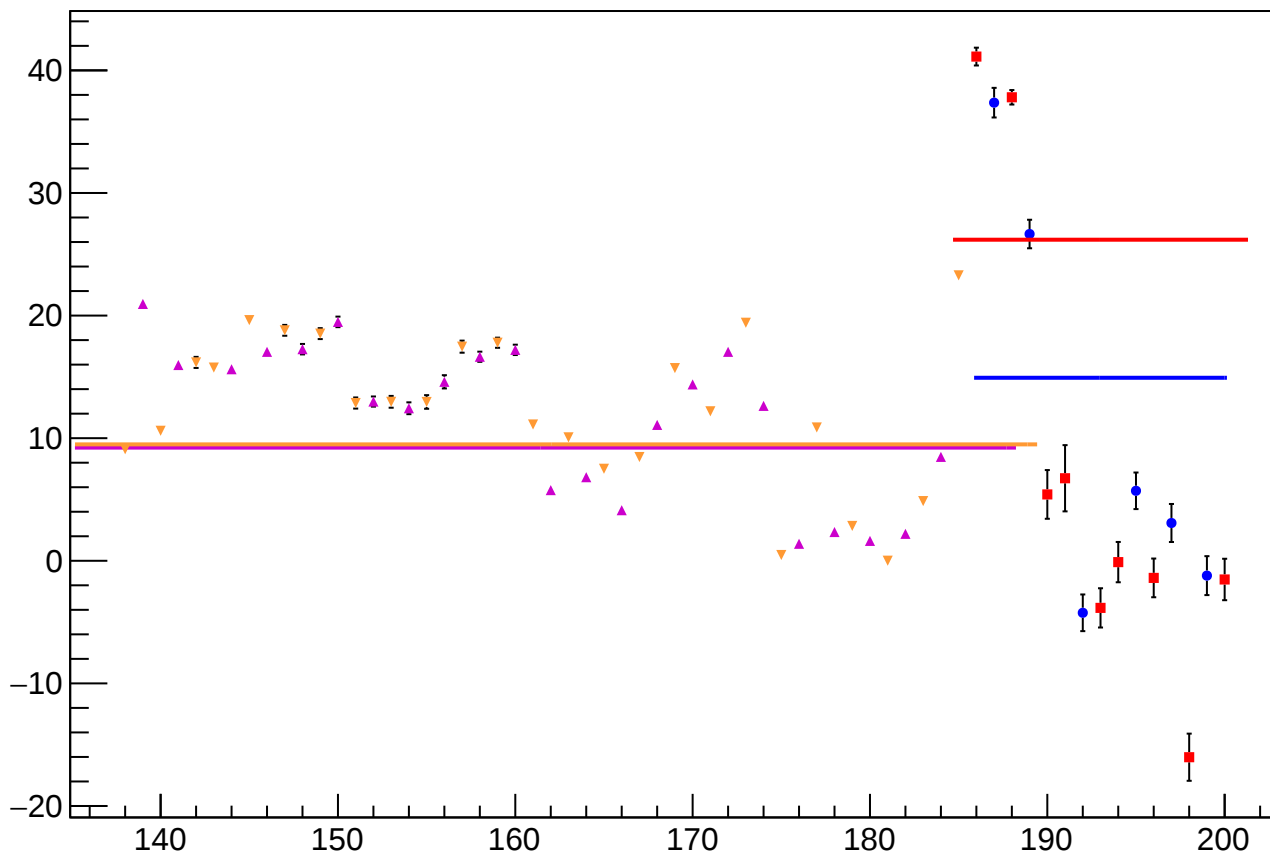
reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.053 ± 0.011 $\chi^2/\text{NDF}: 937.0/22$
 Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$
 Right Out: 0.029 ± 0.011 $\chi^2/\text{NDF}: 1170.1/27$
 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: 0.041 ± 0.008 $\chi^2/\text{NDF}: 2109.7/50$
 In: -0.203 ± 0.007 $\chi^2/\text{NDF}: 3186.0/45$
 Out: -0.229 ± 0.007 $\chi^2/\text{NDF}: 3085.3/52$
 All: -0.217 ± 0.005 $\chi^2/\text{NDF}: 6278.8/98$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.928 ± 0.565 χ^2/NDF : 810.7/5

Left Out: 9.495 ± 0.061 χ^2/NDF : 12609.1/24

Right Out: 26.189 ± 0.380 χ^2/NDF : 2633.5/8

Left In: 9.231 ± 0.063 χ^2/NDF : 10736.2/22

Left: 9.367 ± 0.044 χ^2/NDF : 23354.3/47

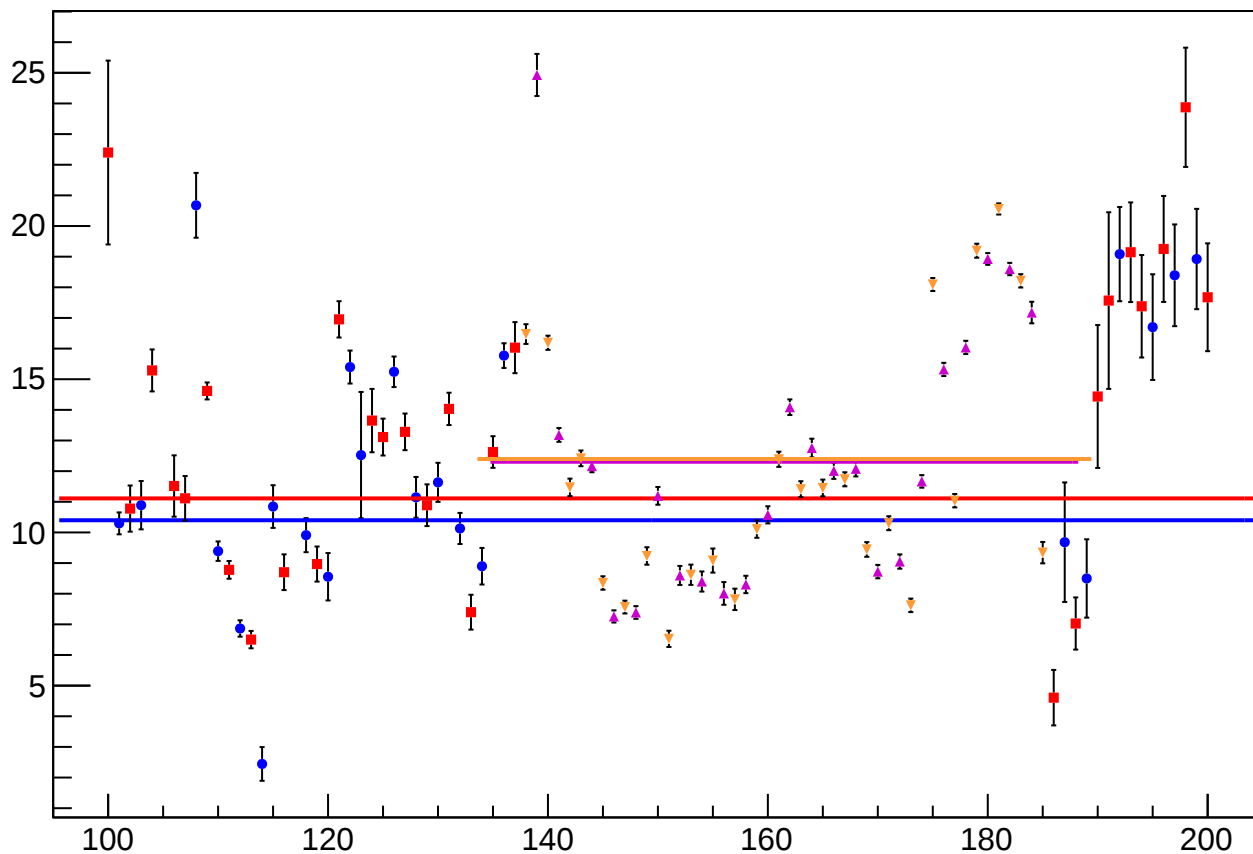
Right: 22.682 ± 0.315 χ^2/NDF : 3717.8/14

In: 9.301 ± 0.063 χ^2/NDF : 11647.3/28

Out: 9.918 ± 0.060 χ^2/NDF : 17124.7/33

All: 9.620 ± 0.044 χ^2/NDF : 28822.2/62

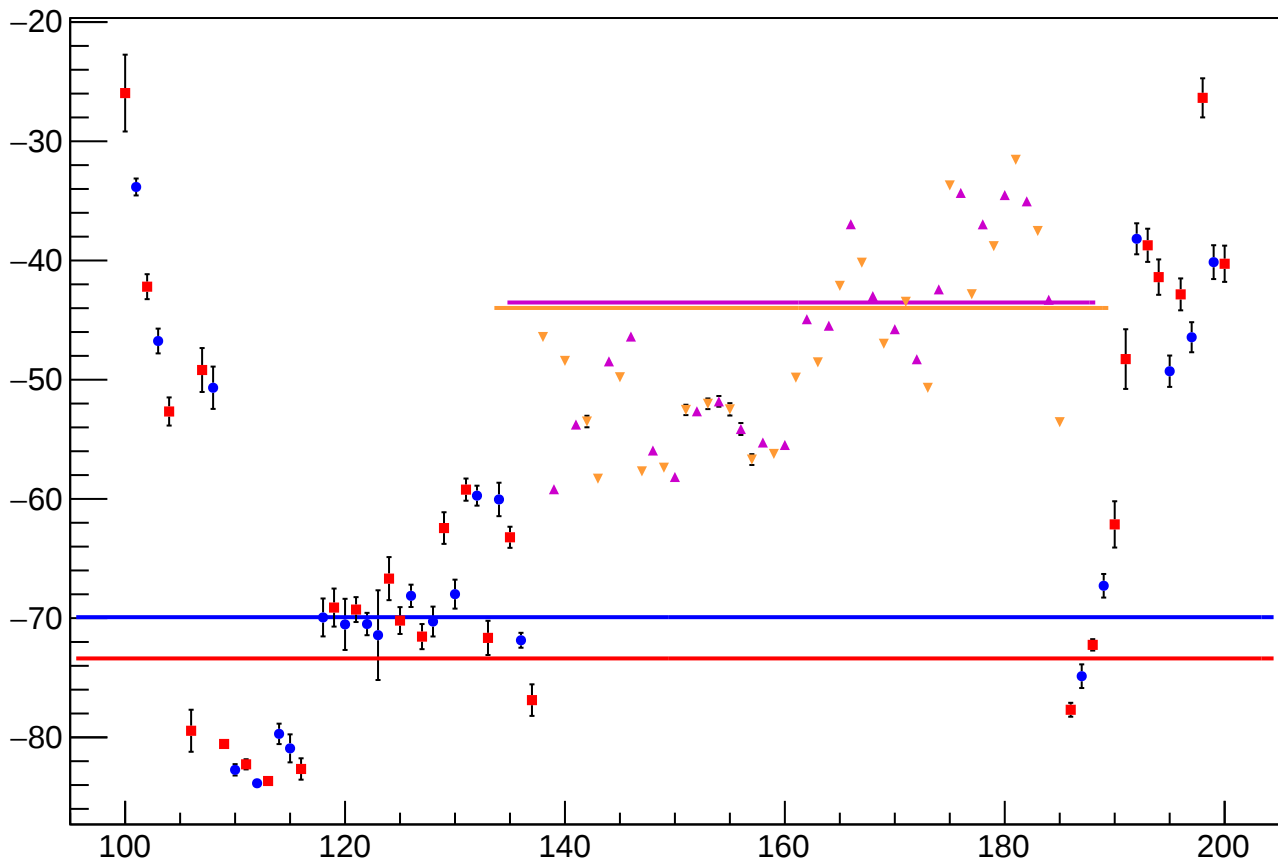
reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.397 ± 0.118 $\chi^2/\text{NDF}: 965.6/22$
 Left Out: 12.397 ± 0.050 $\chi^2/\text{NDF}: 7542.8/24$
 Right Out: 11.110 ± 0.113 $\chi^2/\text{NDF}: 1015.9/27$
 Left In: 12.307 ± 0.051 $\chi^2/\text{NDF}: 5601.8/22$

Left: 12.353 ± 0.036 $\chi^2/\text{NDF}: 13146.3/47$
 Right: 10.768 ± 0.082 $\chi^2/\text{NDF}: 2000.6/50$
 In: 12.003 ± 0.047 $\chi^2/\text{NDF}: 6788.9/45$
 Out: 12.189 ± 0.045 $\chi^2/\text{NDF}: 8667.3/52$
 All: 12.099 ± 0.033 $\chi^2/\text{NDF}: 15464.3/98$

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -69.919 ± 0.183 $\chi^2/\text{NDF}: 7355.9/22$

Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$

Right Out: -73.380 ± 0.157 $\chi^2/\text{NDF}: 6767.5/27$

Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$

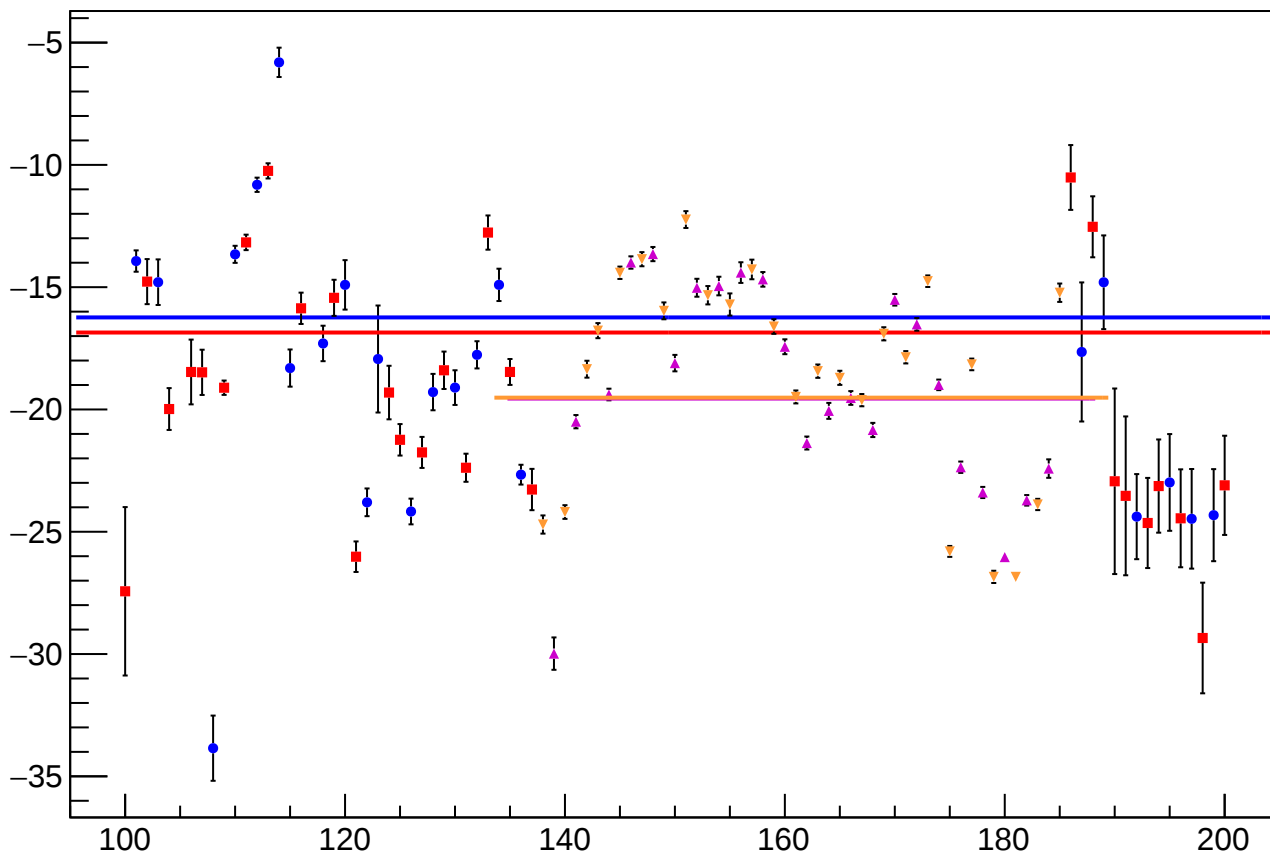
Right: -71.916 ± 0.119 $\chi^2/\text{NDF}: 14328.8/50$

In: -46.334 ± 0.060 $\chi^2/\text{NDF}: 41129.1/45$

Out: -47.938 ± 0.058 $\chi^2/\text{NDF}: 54826.6/52$

All: -47.167 ± 0.042 $\chi^2/\text{NDF}: 96328.5/98$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.237 ± 0.131 $\chi^2/\text{NDF}: 1691.1/22$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -16.854 ± 0.126 $\chi^2/\text{NDF}: 1336.4/27$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

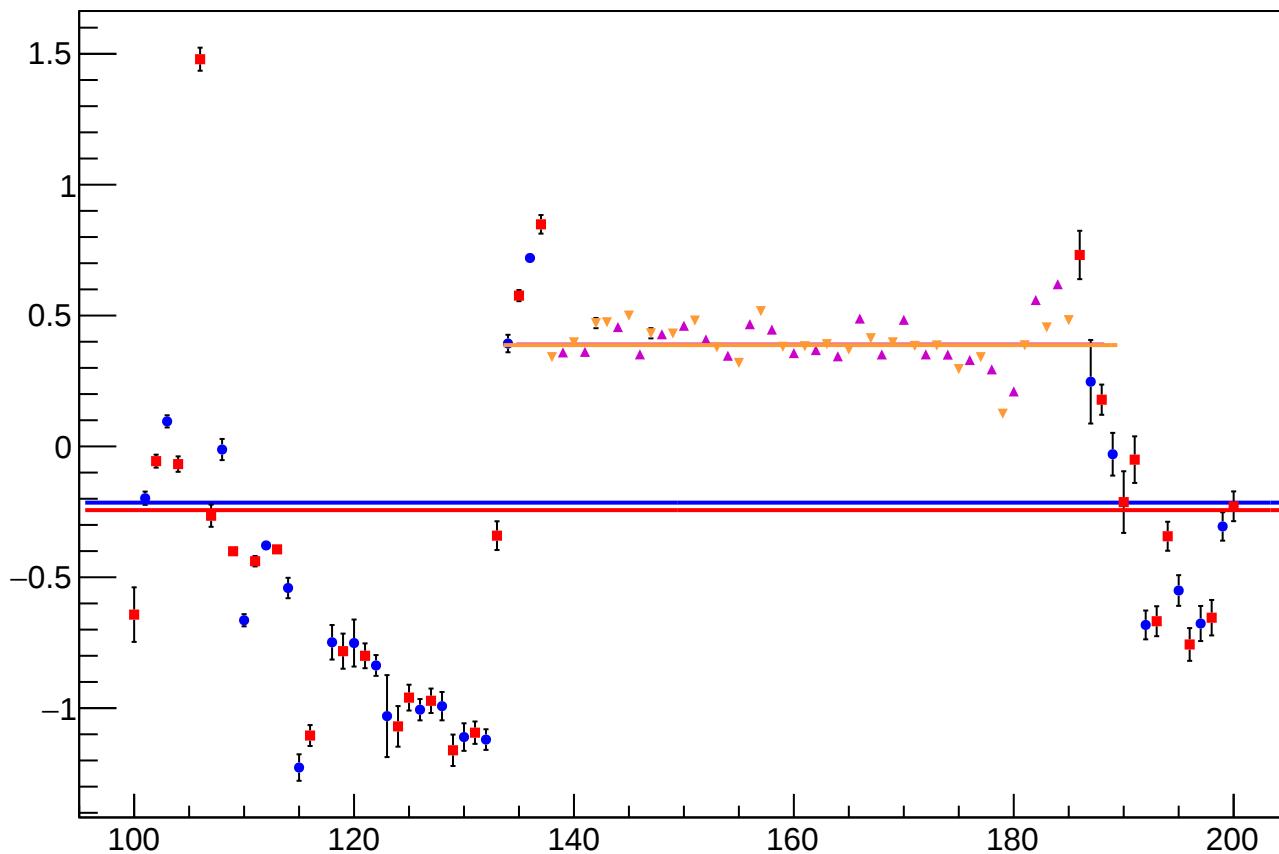
Right: -16.559 ± 0.091 $\chi^2/\text{NDF}: 3039.0/50$

In: -19.022 ± 0.053 $\chi^2/\text{NDF}: 6540.1/45$

Out: -19.079 ± 0.051 $\chi^2/\text{NDF}: 8230.0/52$

All: -19.051 ± 0.037 $\chi^2/\text{NDF}: 14770.7/98$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.215 ± 0.007 χ^2/NDF : 6491.8/22

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.243 ± 0.007 χ^2/NDF : 6509.2/27

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

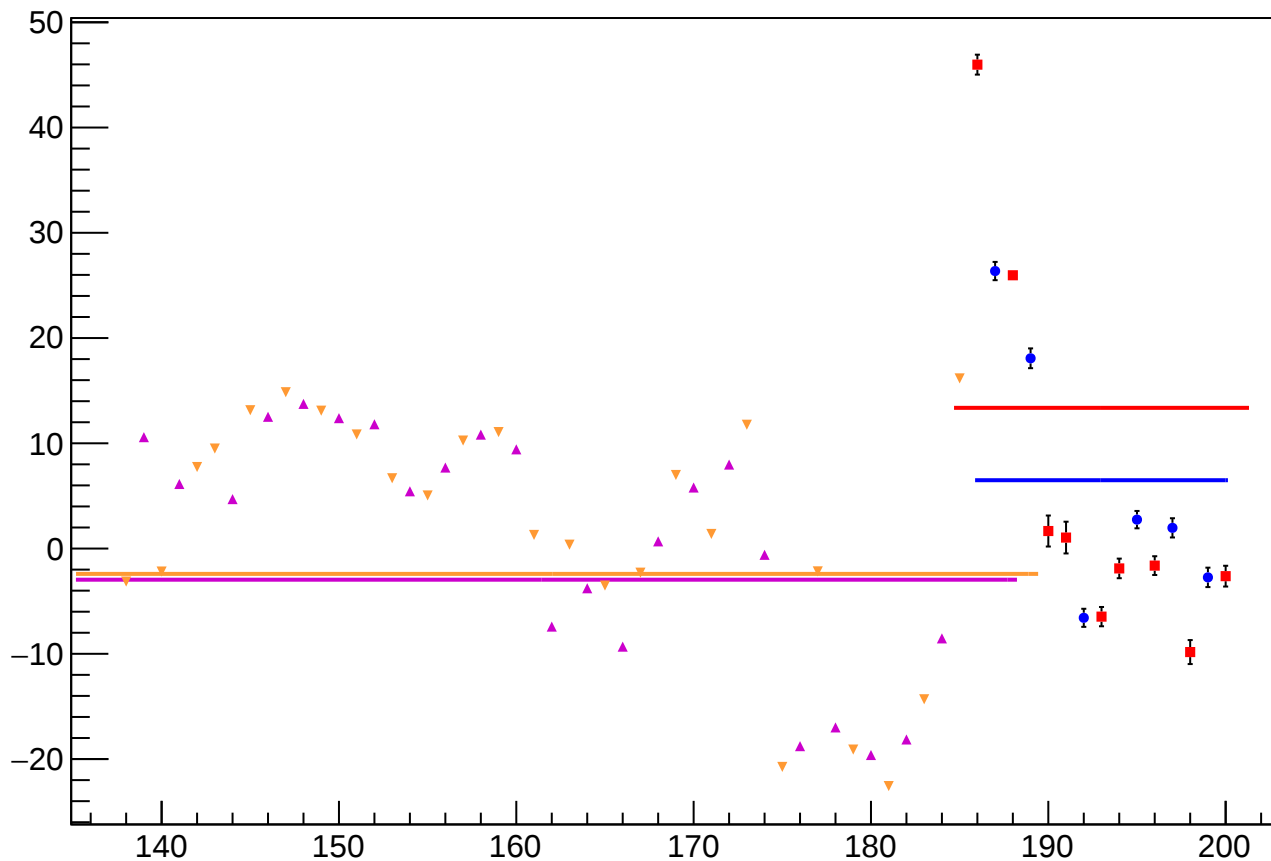
Right: -0.230 ± 0.005 χ^2/NDF : 13009.2/50

In: 0.320 ± 0.002 χ^2/NDF : 13846.2/45

Out: 0.310 ± 0.002 χ^2/NDF : 14968.5/52

All: 0.315 ± 0.002 χ^2/NDF : 28823.6/98

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.493 ± 0.361 $\chi^2/\text{NDF}: 1052.9/5$

Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$

Right Out: 13.369 ± 0.279 $\chi^2/\text{NDF}: 3878.3/8$

Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$

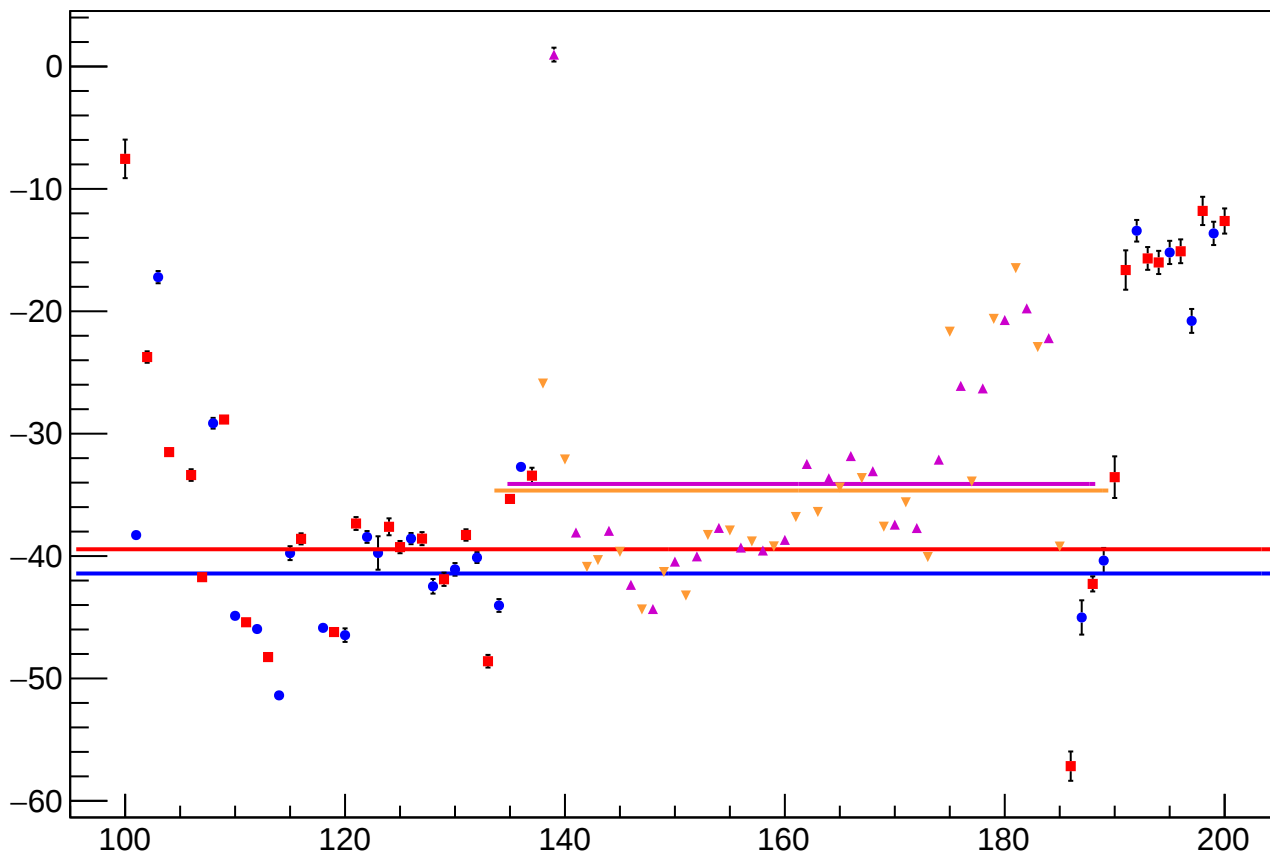
Right: 10.805 ± 0.221 $\chi^2/\text{NDF}: 5158.3/14$

In: -2.746 ± 0.054 $\chi^2/\text{NDF}: 47644.3/28$

Out: -1.861 ± 0.052 $\chi^2/\text{NDF}: 63341.5/33$

All: -2.284 ± 0.037 $\chi^2/\text{NDF}: 111125.2/62$

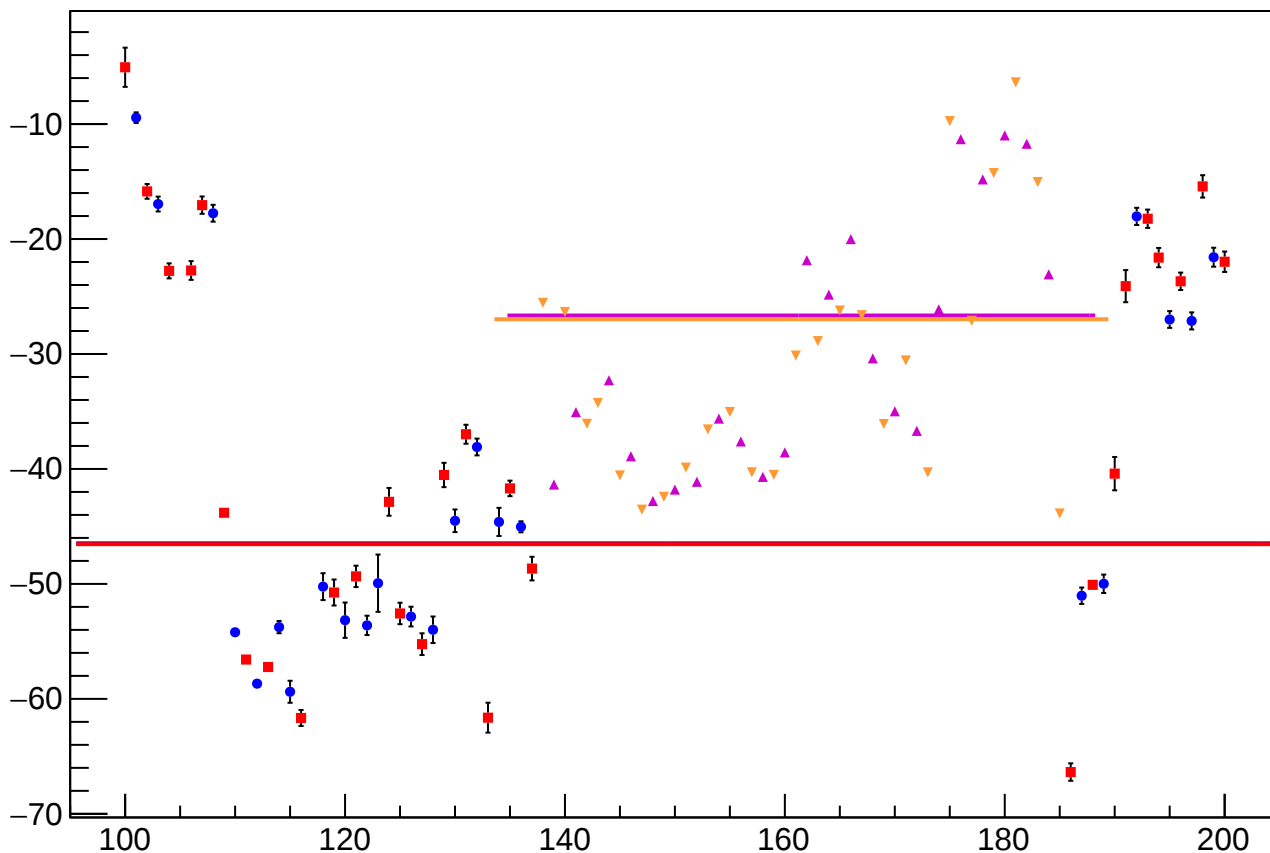
reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -41.424 ± 0.077 χ^2/NDF : 9713.0/22
 Left Out: -34.646 ± 0.042 χ^2/NDF : 34674.7/24
 Right Out: -39.444 ± 0.071 χ^2/NDF : 14990.4/27
 Left In: -34.108 ± 0.044 χ^2/NDF : 29052.8/22

Left: -34.390 ± 0.030 χ^2/NDF : 63806.0/47
 Right: -40.359 ± 0.052 χ^2/NDF : 25061.3/50
 In: -35.915 ± 0.038 χ^2/NDF : 45603.6/45
 Out: -35.877 ± 0.036 χ^2/NDF : 53049.7/52
 All: -35.895 ± 0.026 χ^2/NDF : 98653.8/98

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.473 $\pm$ 0.116 χ^2 /NDF: 18796.3/22

Left Out: -26.978 $\pm$ 0.053 χ^2 /NDF: 49361.1/24

Right Out: -46.543 $\pm$ 0.098 χ^2 /NDF: 17846.4/27

Left In: -26.654 $\pm$ 0.055 χ^2 /NDF: 42106.8/22

Left: -26.821 $\pm$ 0.038 χ^2 /NDF: 91485.8/47

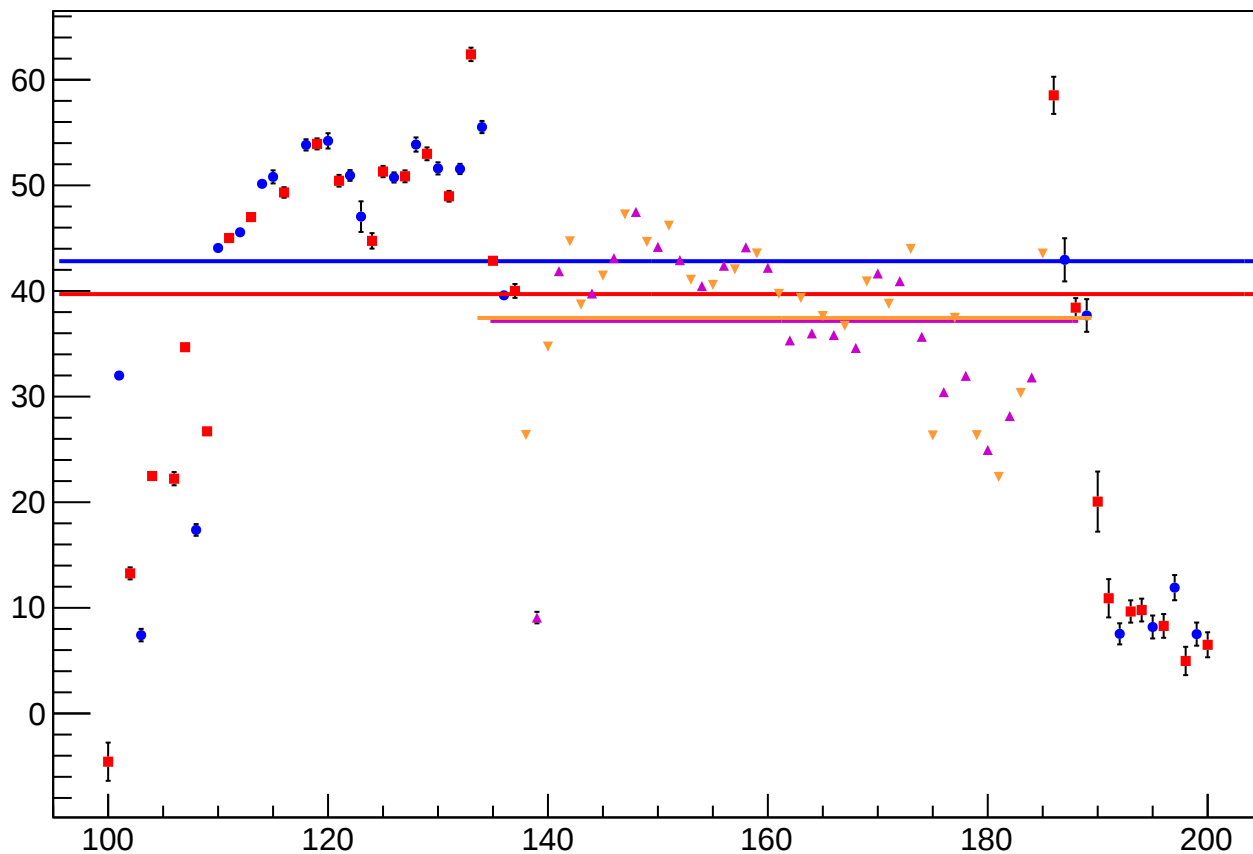
Right: -46.514 $\pm$ 0.075 χ^2 /NDF: 36642.9/50

In: -30.298 $\pm$ 0.050 χ^2 /NDF: 84834.4/45

Out: -31.460 $\pm$ 0.047 χ^2 /NDF: 98205.1/52

All: -30.914 $\pm$ 0.034 χ^2 /NDF: 183330.3/98

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.822 $\pm$ 0.086 χ^2 /NDF: 14658.5/22

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 39.706 $\pm$ 0.079 χ^2 /NDF: 21914.7/27

Left In: 37.169 $\pm$ 0.049 χ^2 /NDF:17236.9/22

Left: 37.314 $\pm$ 0.034 χ^2 /NDF: 38824.1/47

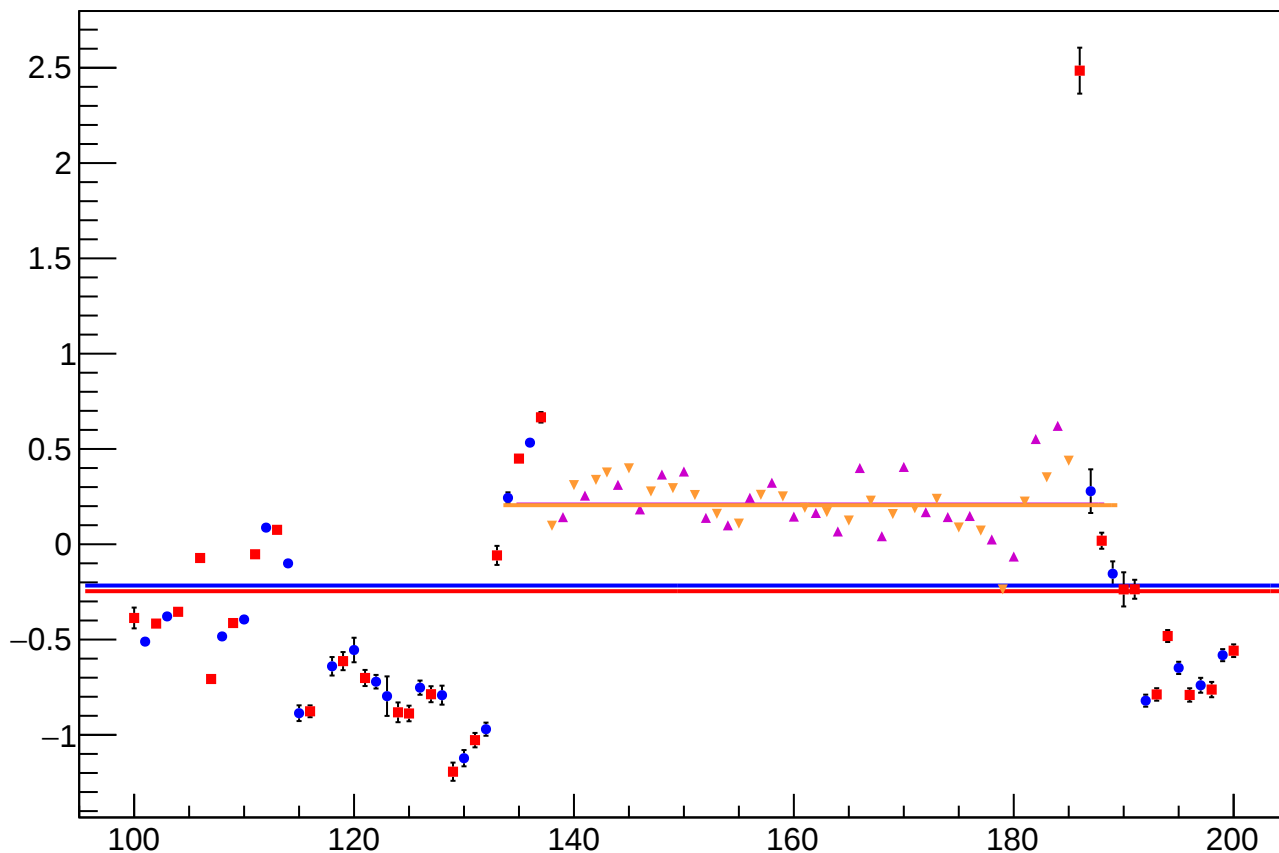
Right: 41.133 $\pm$ 0.058 χ^2 /NDF: 37289.3/50

In: 38.573 $\pm$ 0.043 χ^2 /NDF:35164.0/45

Out: 38.043 $\pm$ 0.040 χ^2 /NDF:44090.8/52

All: 38.293 $\pm$ 0.029 χ^2 /NDF: 79336.0/98

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.217 ± 0.005 χ^2/NDF : 8298.7/22

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.246 ± 0.004 χ^2/NDF : 8832.4/27

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

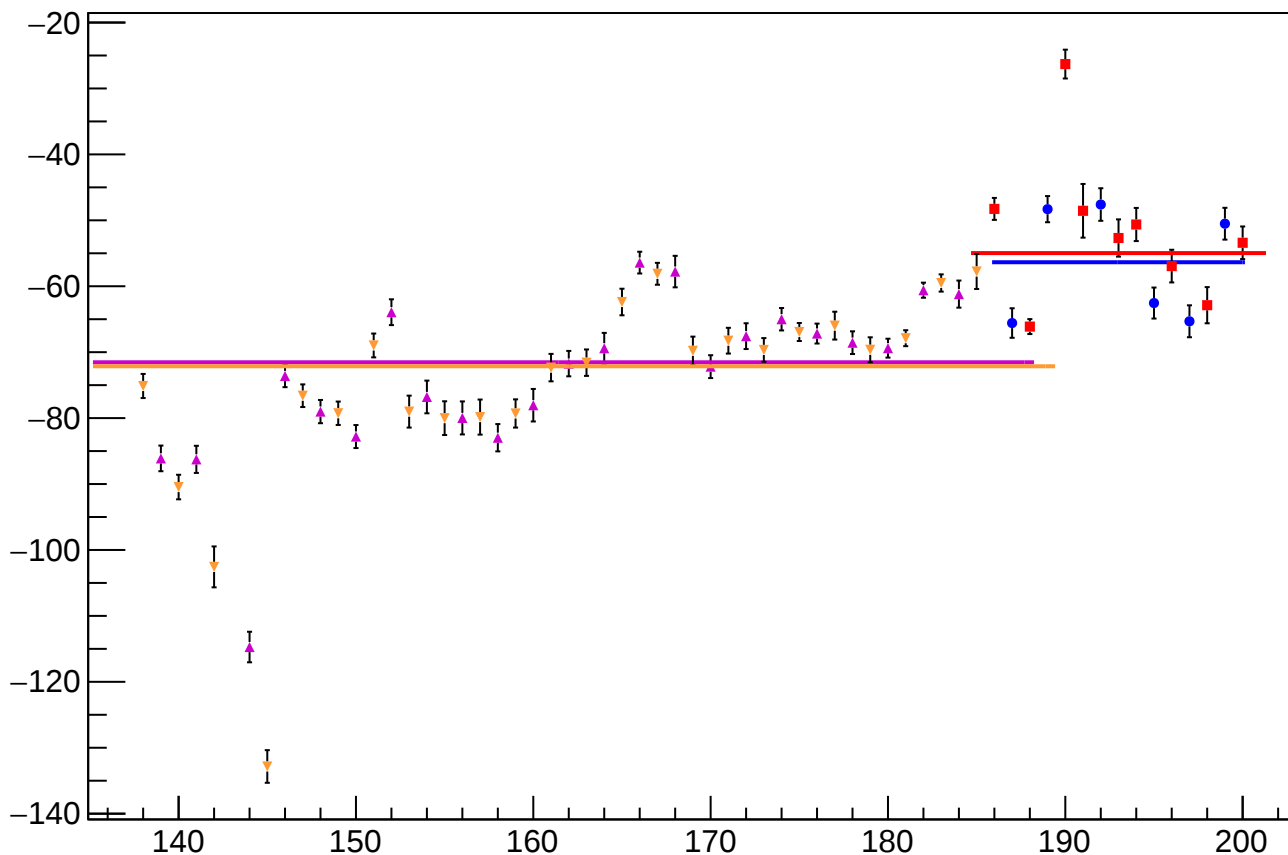
Right: -0.233 ± 0.003 χ^2/NDF : 17154.1/50

In: 0.128 ± 0.002 χ^2/NDF : 20197.4/45

Out: 0.106 ± 0.002 χ^2/NDF : 22104.5/52

All: 0.116 ± 0.001 χ^2/NDF : 42361.9/98

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected

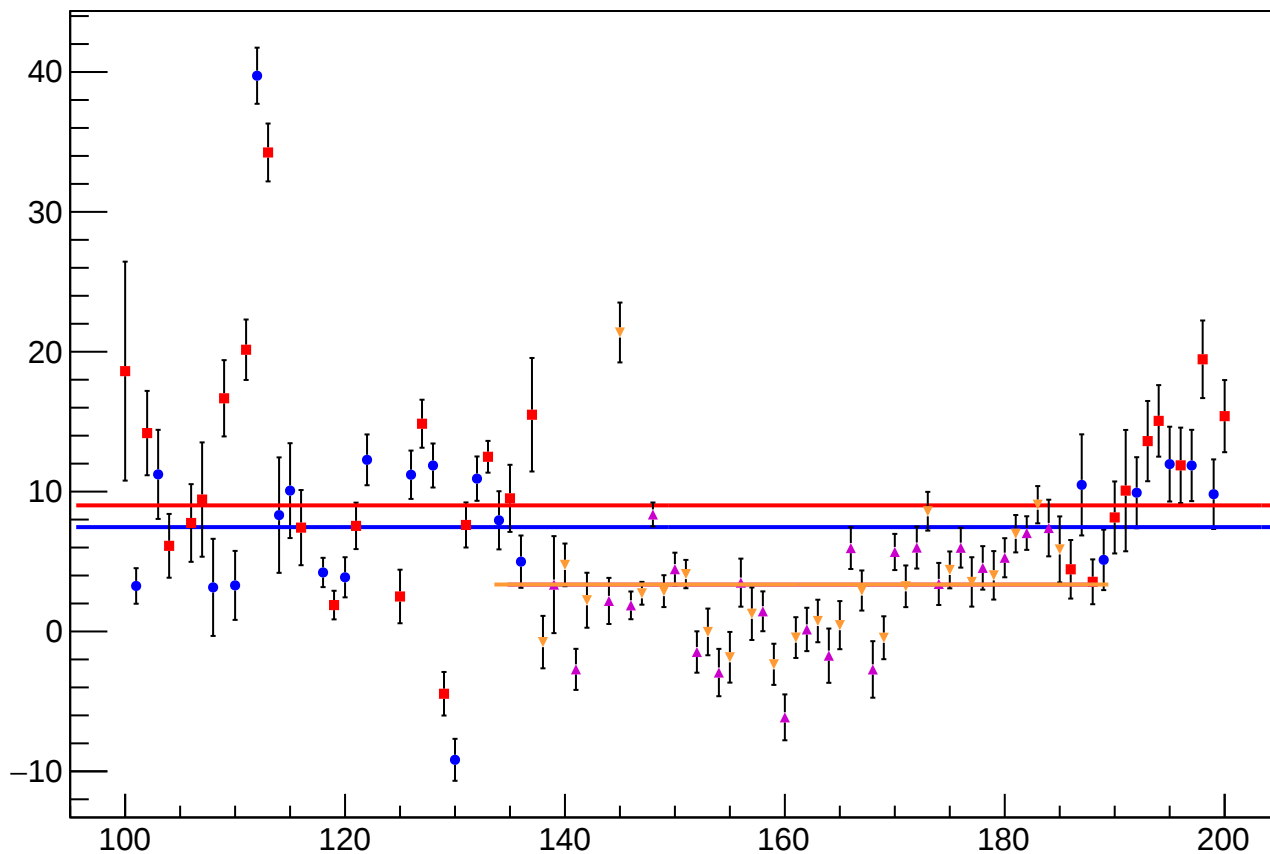


Right In: -56.358 ± 0.936 $\chi^2/\text{NDF}: 72.5/5$
 Left Out: -72.138 ± 0.383 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -54.969 ± 0.682 $\chi^2/\text{NDF}: 300.2/8$
 Left In: -71.534 ± 0.382 $\chi^2/\text{NDF}: 851.4/22$

Left: -71.835 ± 0.270 $\chi^2/\text{NDF}: 1974.0/46$
 Right: -55.451 ± 0.551 $\chi^2/\text{NDF}: 374.1/14$
 In: -69.371 ± 0.353 $\chi^2/\text{NDF}: 1149.2/28$
 Out: -68.025 ± 0.334 $\chi^2/\text{NDF}: 1903.2/32$

All: -68.660 ± 0.243 $\chi^2/\text{NDF}: 3060.1/61$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.461 ± 0.406 χ^2/NDF : 450.6/21

Left Out: 3.357 ± 0.295 χ^2/NDF : 167.7/23

Right Out: 9.015 ± 0.393 χ^2/NDF : 396.0/26

Left In: 3.349 ± 0.298 χ^2/NDF : 163.5/22

Left: 3.353 ± 0.210 χ^2/NDF : 331.2/46

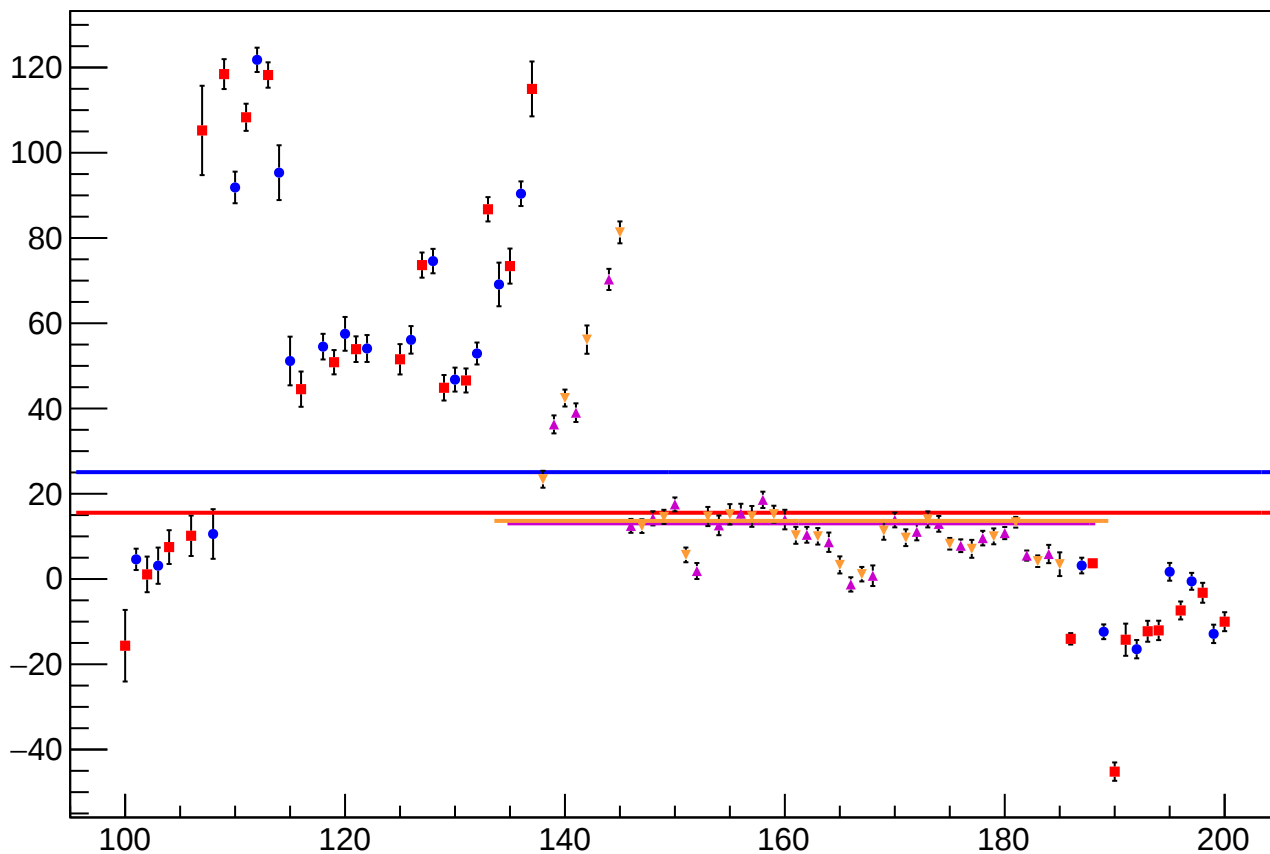
Right: 8.264 ± 0.282 χ^2/NDF : 854.1/48

In: 4.789 ± 0.240 χ^2/NDF : 680.7/44

Out: 5.396 ± 0.236 χ^2/NDF : 696.4/50

All: 5.098 ± 0.168 χ^2/NDF : 1380.4/95

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.072 $\pm$ 0.581 χ^2 /NDF: 4696.9/21

Left Out: 13.632 $\pm$ 0.382 χ^2 /NDF:1300.0/23

Right Out: 15.545 $\pm$ 0.476 χ^2 /NDF: 7241.0/26

Left In: 13.058 $\pm$ 0.380 χ^2 /NDF:1024.7/22

Left: 13.344 $\pm$ 0.269 χ^2 /NDF: 2325.9/46

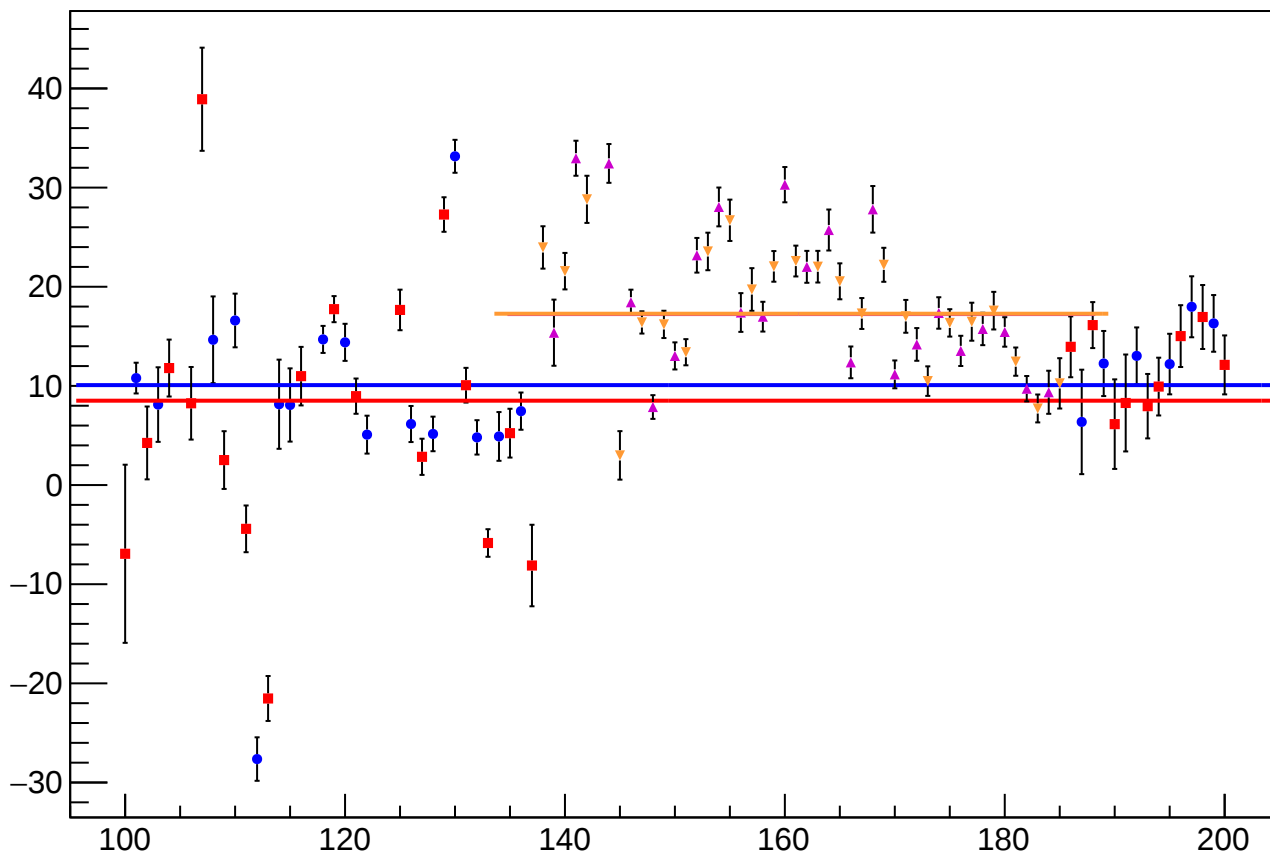
Right: 19.377 $\pm$ 0.368 χ^2 /NDF: 12098.9/48

In: 16.658 $\pm$ 0.318 χ^2 /NDF:6021.5/44

Out: 14.381 $\pm$ 0.298 χ^2 /NDF:8550.9/50

All: 15.446 $\pm$ 0.217 χ^2 /NDF: 14599.7/95

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.079 $\pm$ 0.473 χ^2 /NDF: 562.3/21

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF:243.9/23

Right Out: 8.508 $\pm$ 0.463 χ^2 /NDF: 598.1/26

Left In: 17.245 $\pm$ 0.339 χ^2 /NDF:440.8/22

Left: 17.262 $\pm$ 0.239 χ^2 /NDF: 684.6/46

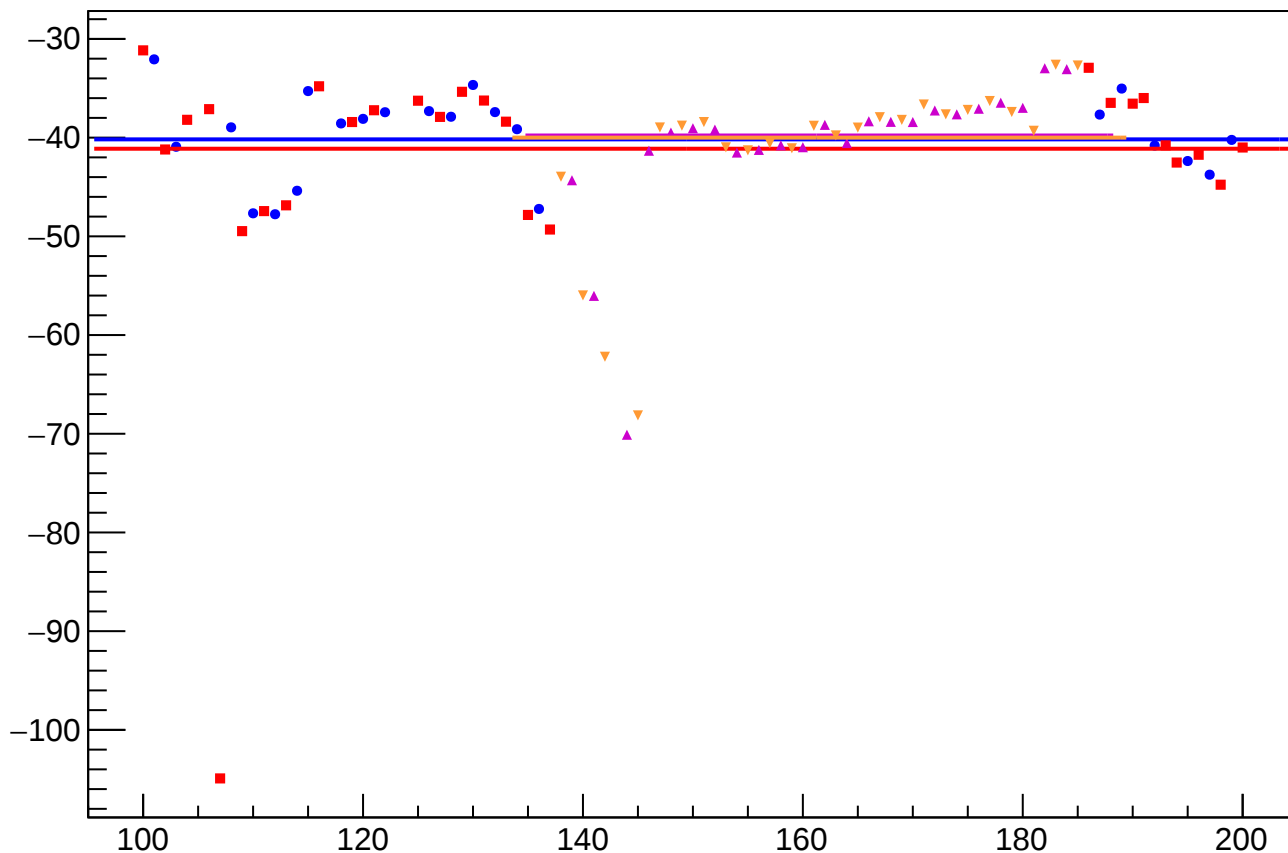
Right: 9.277 $\pm$ 0.331 χ^2 /NDF: 1166.0/48

In: 14.811 $\pm$ 0.276 χ^2 /NDF:1154.5/44

Out: 14.241 $\pm$ 0.273 χ^2 /NDF:1076.5/50

All: 14.523 $\pm$ 0.194 χ^2 /NDF: 2233.2/95

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.176 ± 0.025 χ^2/NDF : 29794.5/21

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -41.125 ± 0.023 χ^2/NDF : 102438.1/26

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

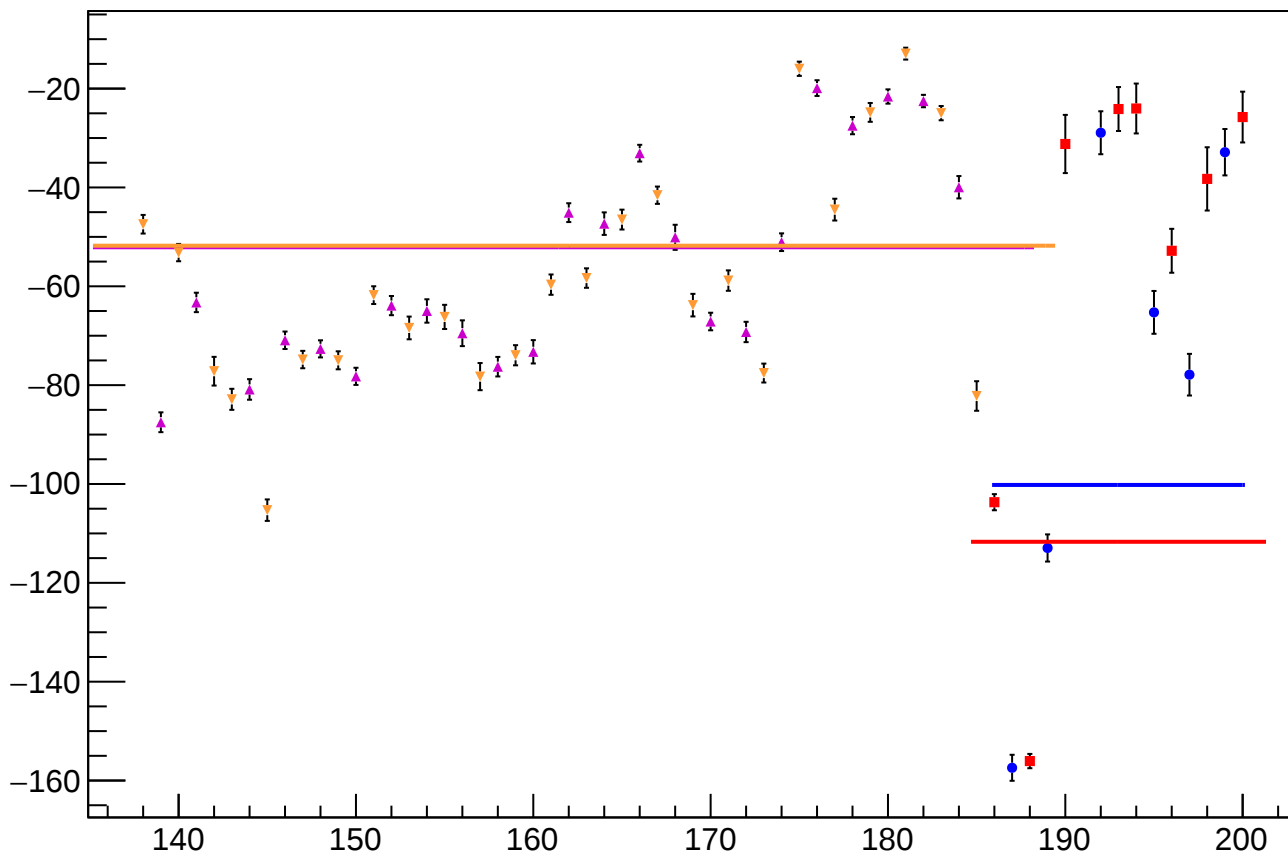
Right: -40.686 ± 0.017 χ^2/NDF : 132999.8/48

In: -39.894 ± 0.013 χ^2/NDF : 174463.3/44

Out: -40.352 ± 0.013 χ^2/NDF : 276302.4/50

All: -40.127 ± 0.009 χ^2/NDF : 451371.2/95

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -100.192 $\pm$ 1.436 χ^2 /NDF: 1062.3/5

Left Out: -51.787 $\pm$ 0.383 χ^2 /NDF: 4164.8/24

Right Out: -111.693 $\pm$ 0.960 χ^2 /NDF: 2429.2/7

Left In: -52.104 $\pm$ 0.389 χ^2 /NDF: 3280.2/22

Left: -51.943 $\pm$ 0.273 χ^2 /NDF: 7445.3/47

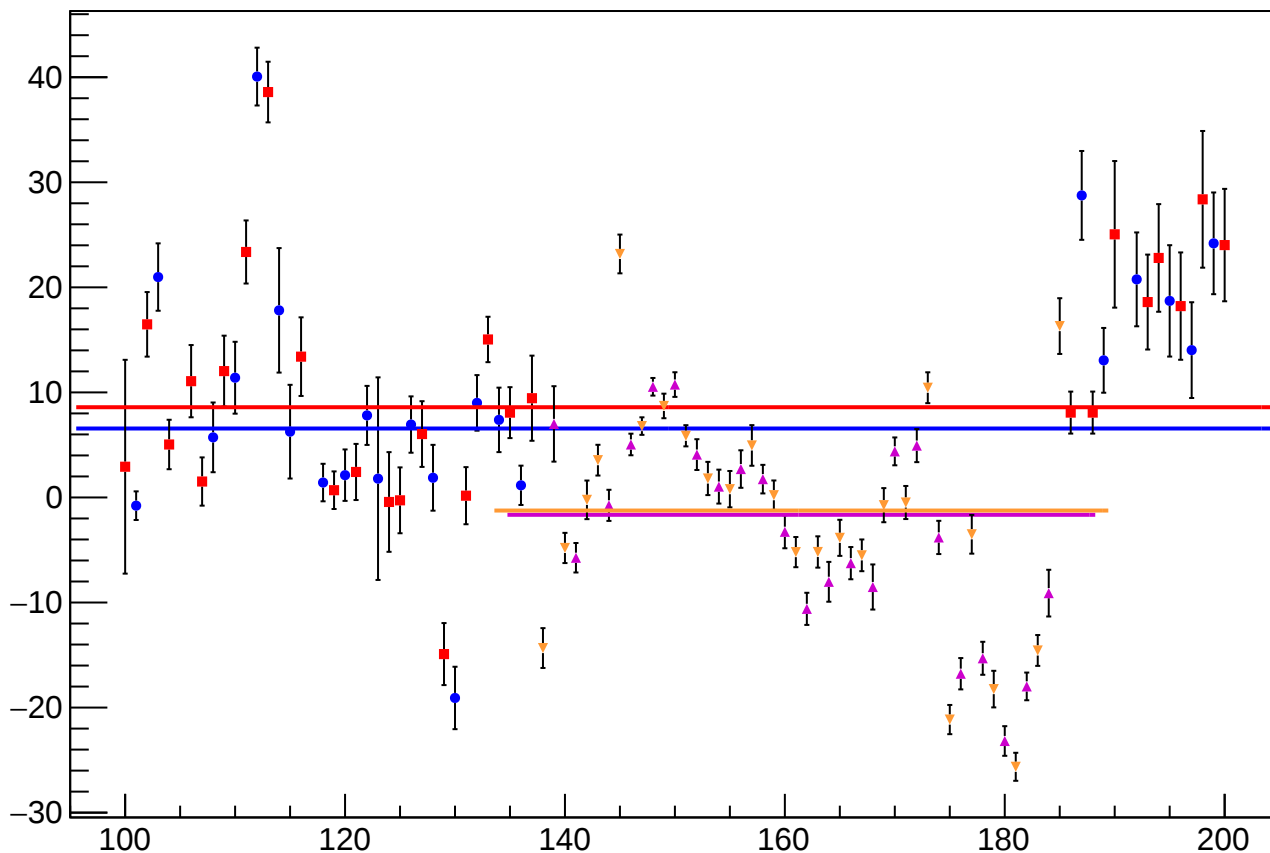
Right: -108.143 $\pm$ 0.798 χ^2 /NDF: 3535.8/13

In: -55.385 $\pm$ 0.375 χ^2 /NDF: 5386.9/28

Out: -60.003 $\pm$ 0.355 χ^2 /NDF: 9956.0/32

All: -57.819 $\pm$ 0.258 χ^2 /NDF: 15422.7/61

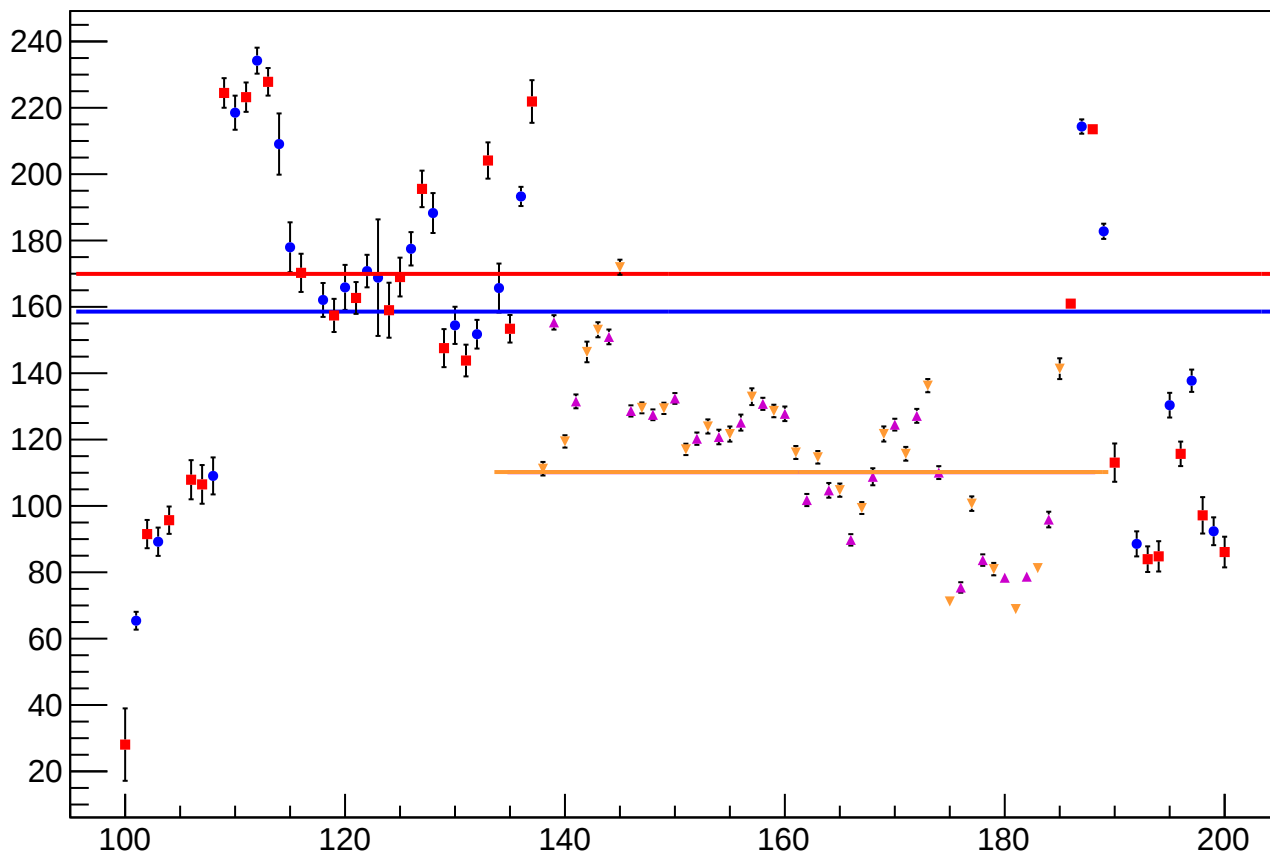
reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.563 ± 0.590 $\chi^2/\text{NDF}: 364.5/22$
 Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$
 Right Out: 8.589 ± 0.571 $\chi^2/\text{NDF}: 312.6/26$
 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: 7.609 ± 0.411 $\chi^2/\text{NDF}: 683.2/49$
 In: 0.036 ± 0.268 $\chi^2/\text{NDF}: 1610.4/45$
 Out: 0.788 ± 0.260 $\chi^2/\text{NDF}: 1870.2/51$
 All: 0.423 ± 0.186 $\chi^2/\text{NDF}: 3484.7/97$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 158.573 ± 0.832 $\chi^2/\text{NDF}: 3753.1/22$

Left Out: 110.213 ± 0.382 $\chi^2/\text{NDF}: 4593.7/24$

Right Out: 169.939 ± 0.653 $\chi^2/\text{NDF}: 4864.5/26$

Left In: 110.171 ± 0.386 $\chi^2/\text{NDF}: 3702.6/22$

Left: 110.192 ± 0.272 $\chi^2/\text{NDF}: 8296.2/47$

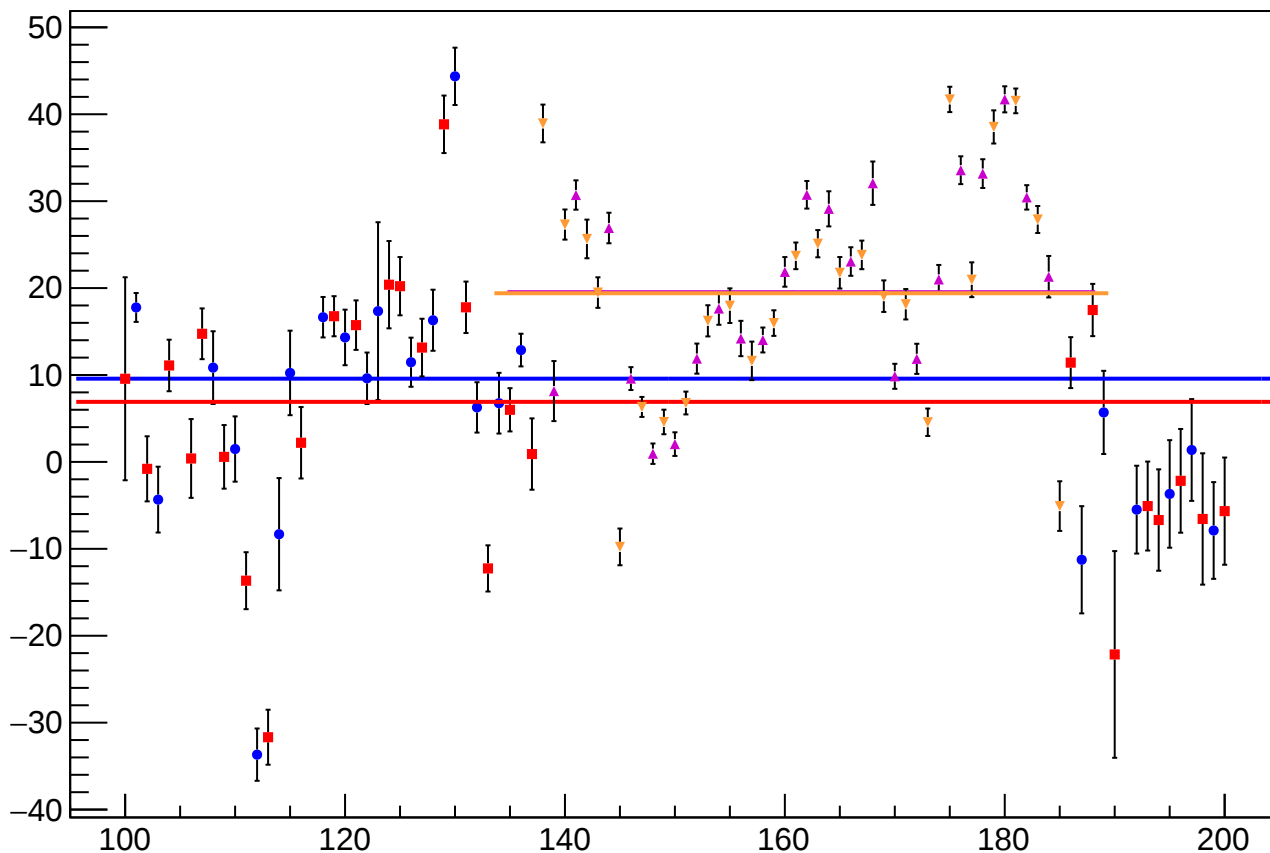
Right: 165.608 ± 0.513 $\chi^2/\text{NDF}: 8733.2/49$

In: 118.747 ± 0.350 $\chi^2/\text{NDF}: 10242.0/45$

Out: 125.456 ± 0.330 $\chi^2/\text{NDF}: 15696.0/51$

All: 122.303 ± 0.240 $\chi^2/\text{NDF}: 26132.7/97$

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.577 ± 0.686 $\chi^2/\text{NDF}: 426.8/22$

Left Out: 19.405 ± 0.335 $\chi^2/\text{NDF}: 1453.4/24$

Right Out: 6.910 ± 0.681 $\chi^2/\text{NDF}: 464.6/26$

Left In: 19.530 ± 0.342 $\chi^2/\text{NDF}: 1181.3/22$

Left: 19.466 ± 0.239 $\chi^2/\text{NDF}: 2634.8/47$

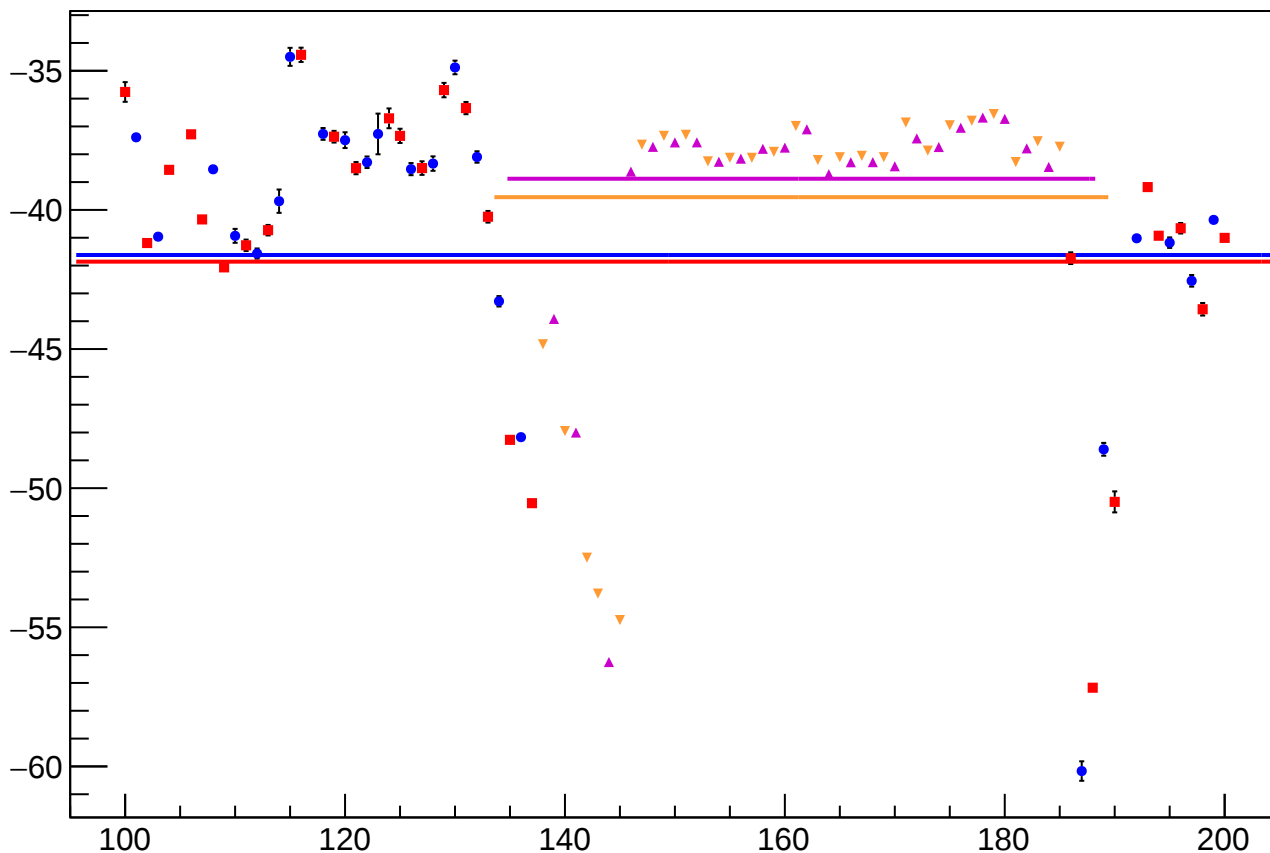
Right: 8.232 ± 0.483 $\chi^2/\text{NDF}: 899.1/49$

In: 17.546 ± 0.306 $\chi^2/\text{NDF}: 1776.5/45$

Out: 16.973 ± 0.300 $\chi^2/\text{NDF}: 2189.3/51$

All: 17.254 ± 0.215 $\chi^2/\text{NDF}: 3967.6/97$

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.620 $\pm$ 0.035 χ^2 /NDF: 16398.6/22

Left Out: -39.542 $\pm$ 0.016 χ^2 /NDF: 92024.1/24

Right Out: -41.859 $\pm$ 0.033 χ^2 /NDF: 22640.4/26

Left In: -38.880 $\pm$ 0.016 χ^2 /NDF: 53409.9/22

Left: -39.214 $\pm$ 0.011 χ^2 /NDF: 146312.0/47

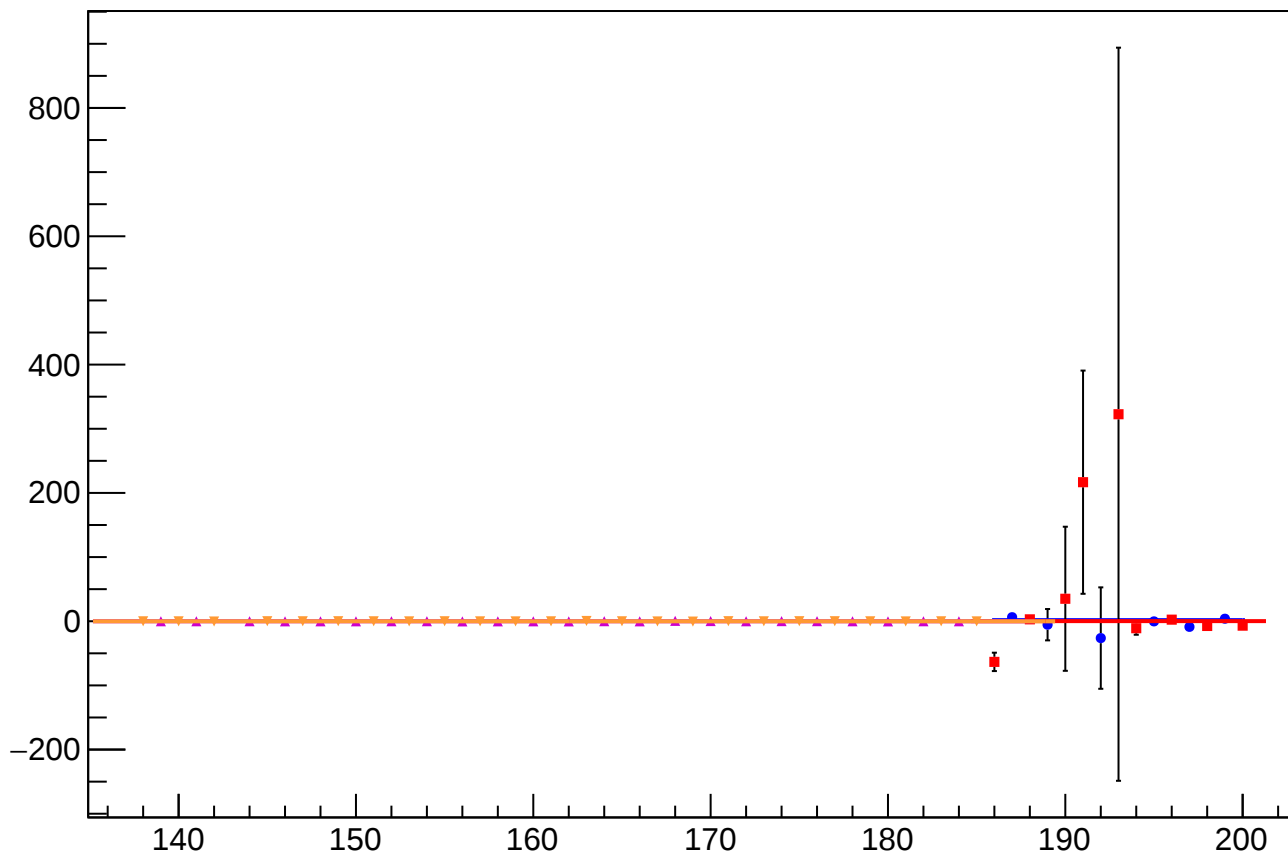
Right: -41.744 $\pm$ 0.024 χ^2 /NDF: 39063.5/49

In: -39.351 $\pm$ 0.014 χ^2 /NDF: 74940.9/45

Out: -39.961 $\pm$ 0.014 χ^2 /NDF: 118588.8/51

All: -39.660 $\pm$ 0.010 χ^2 /NDF: 194434.2/97

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.723+/-2.090 χ^2/NDF : 7.8/5

Left Out: -0.089+/-0.022 χ^2/NDF : 39.7/23

Right Out: 0.191+/-1.650 χ^2/NDF : 28.0/8

Left In: -0.026+/-0.022 χ^2/NDF : 33.3/22

Left: -0.057+/-0.016 χ^2/NDF : 77.1/46

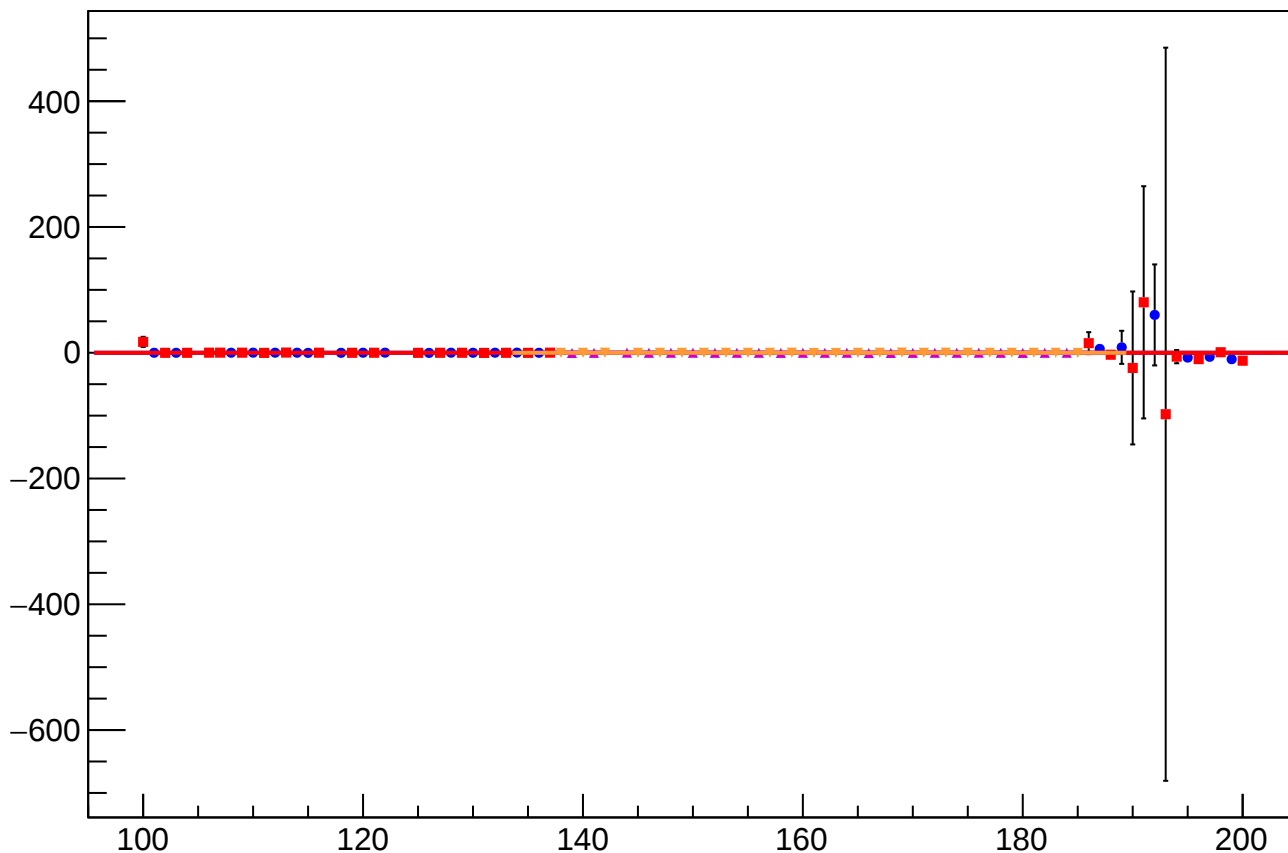
Right: 0.779+/-1.295 χ^2/NDF : 36.1/14

In: -0.025+/-0.022 χ^2/NDF : 41.8/28

Out: -0.088+/-0.022 χ^2/NDF : 67.7/32

All: -0.057+/-0.016 χ^2/NDF : 113.6/61

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 21.2/21

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.051 ± 0.029 χ^2/NDF : 34.8/26

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

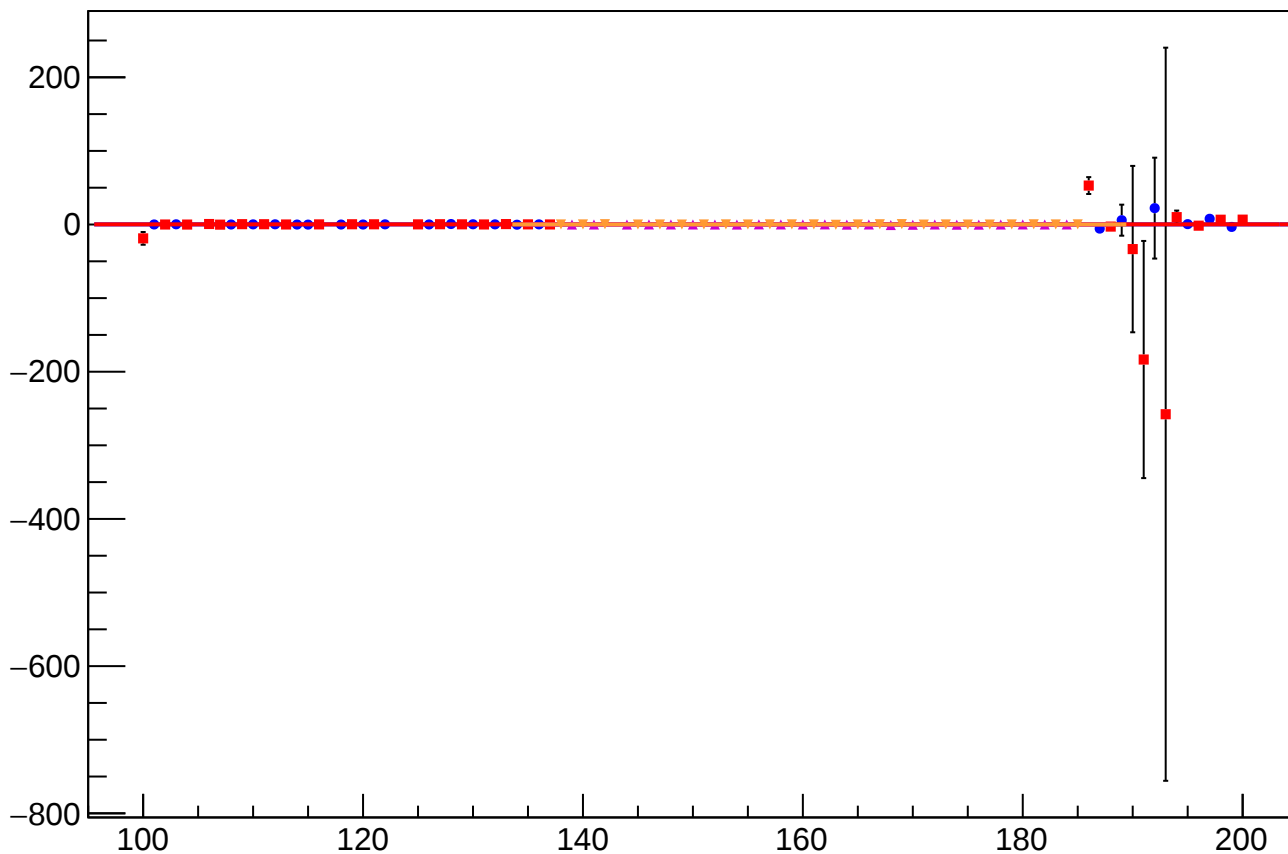
Right: -0.026 ± 0.020 χ^2/NDF : 57.5/48

In: -0.038 ± 0.015 χ^2/NDF : 55.2/44

Out: -0.073 ± 0.015 χ^2/NDF : 61.5/50

All: -0.056 ± 0.011 χ^2/NDF : 119.3/95

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.173 $\pm$ 0.053 χ^2 /NDF: 22.5/21

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.235 $\pm$ 0.054 χ^2 /NDF: 52.3/26

Left In: 0.020 $\pm$ 0.022 χ^2 /NDF:35.6/22

Left: 0.051 $\pm$ 0.016 χ^2 /NDF: 77.8/46

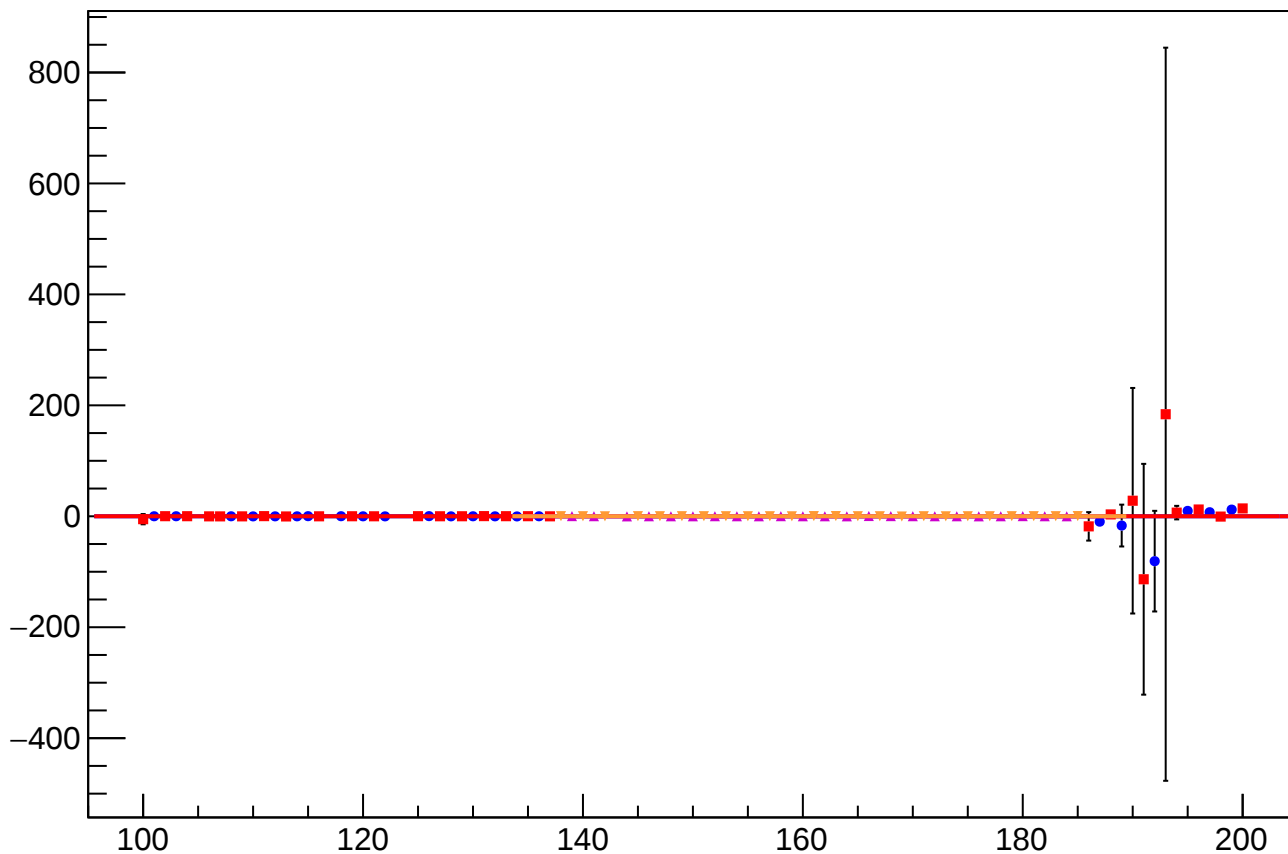
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 75.5/48

In: 0.043 $\pm$ 0.020 χ^2 /NDF:65.2/44

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:97.6/50

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 167.2/95

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.033 $\chi^2/\text{NDF}: 23.4/21$

Left Out: 0.105 ± 0.020 $\chi^2/\text{NDF}: 29.5/23$

Right Out: 0.058 ± 0.034 $\chi^2/\text{NDF}: 29.0/26$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.088 ± 0.014 $\chi^2/\text{NDF}: 62.5/46$

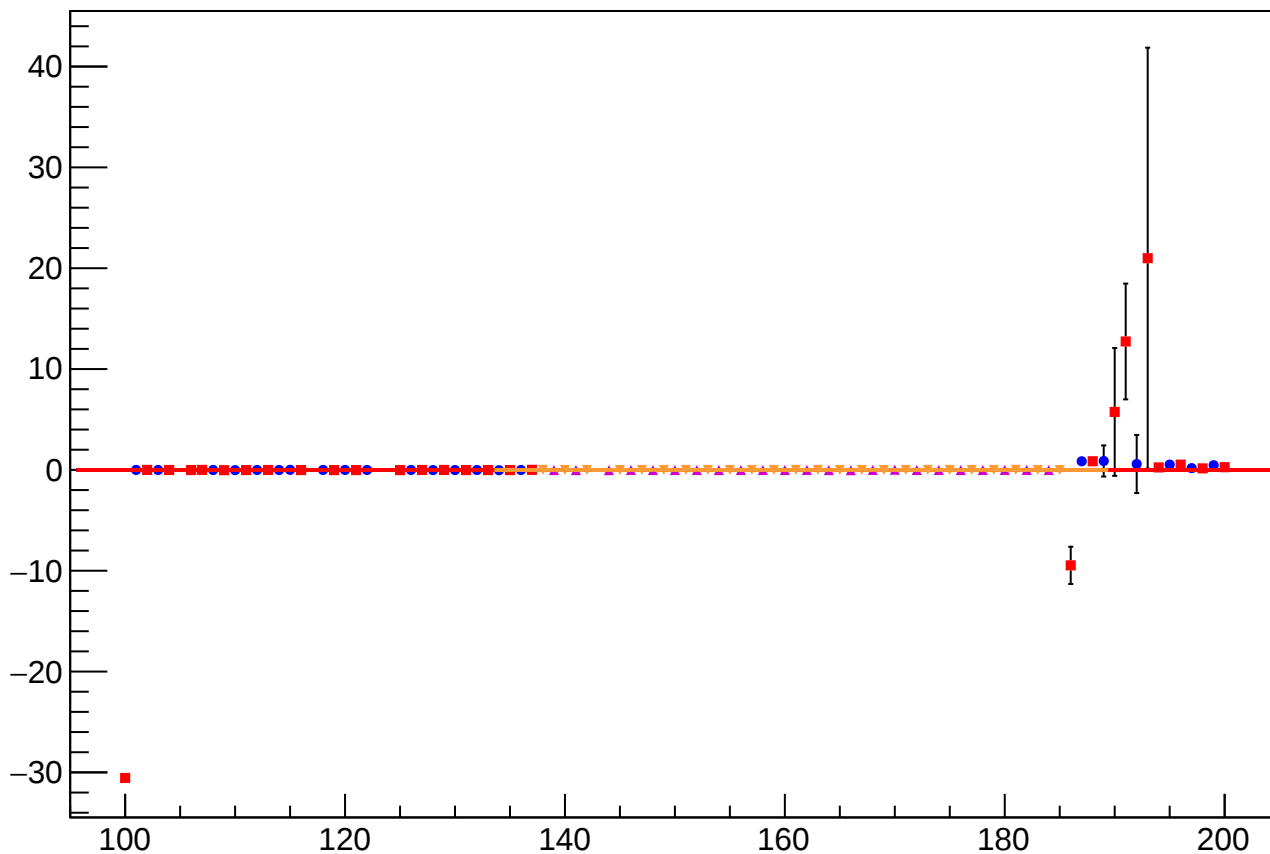
Right: 0.025 ± 0.024 $\chi^2/\text{NDF}: 54.2/48$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 58.5/44$

Out: 0.093 ± 0.017 $\chi^2/\text{NDF}: 59.9/50$

All: 0.071 ± 0.012 $\chi^2/\text{NDF}: 121.9/95$

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 31.2/21

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11945.7/26

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

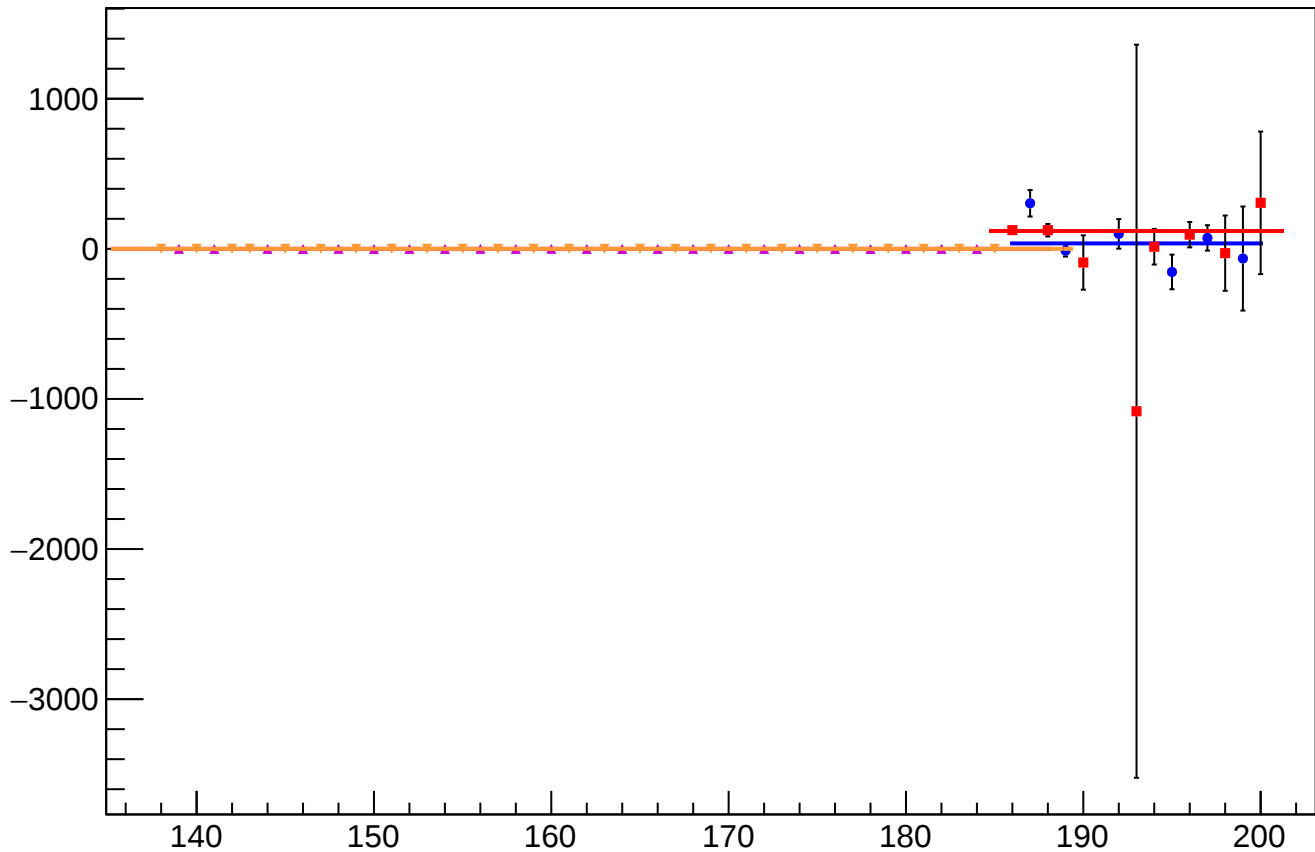
Right: -0.012 ± 0.001 χ^2/NDF : 11977.0/48

In: -0.009 ± 0.001 χ^2/NDF : 74.3/44

Out: -0.009 ± 0.001 χ^2/NDF : 11979.7/50

All: -0.009 ± 0.001 χ^2/NDF : 12054.3/95

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 36.202 $\pm$ 30.197 χ^2 /NDF: 14.1/5

Left Out: 0.017 $\pm$ 0.027 χ^2 /NDF:30.9/24

Right Out: 119.057 $\pm$ 16.526 χ^2 /NDF: 3.1/7

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

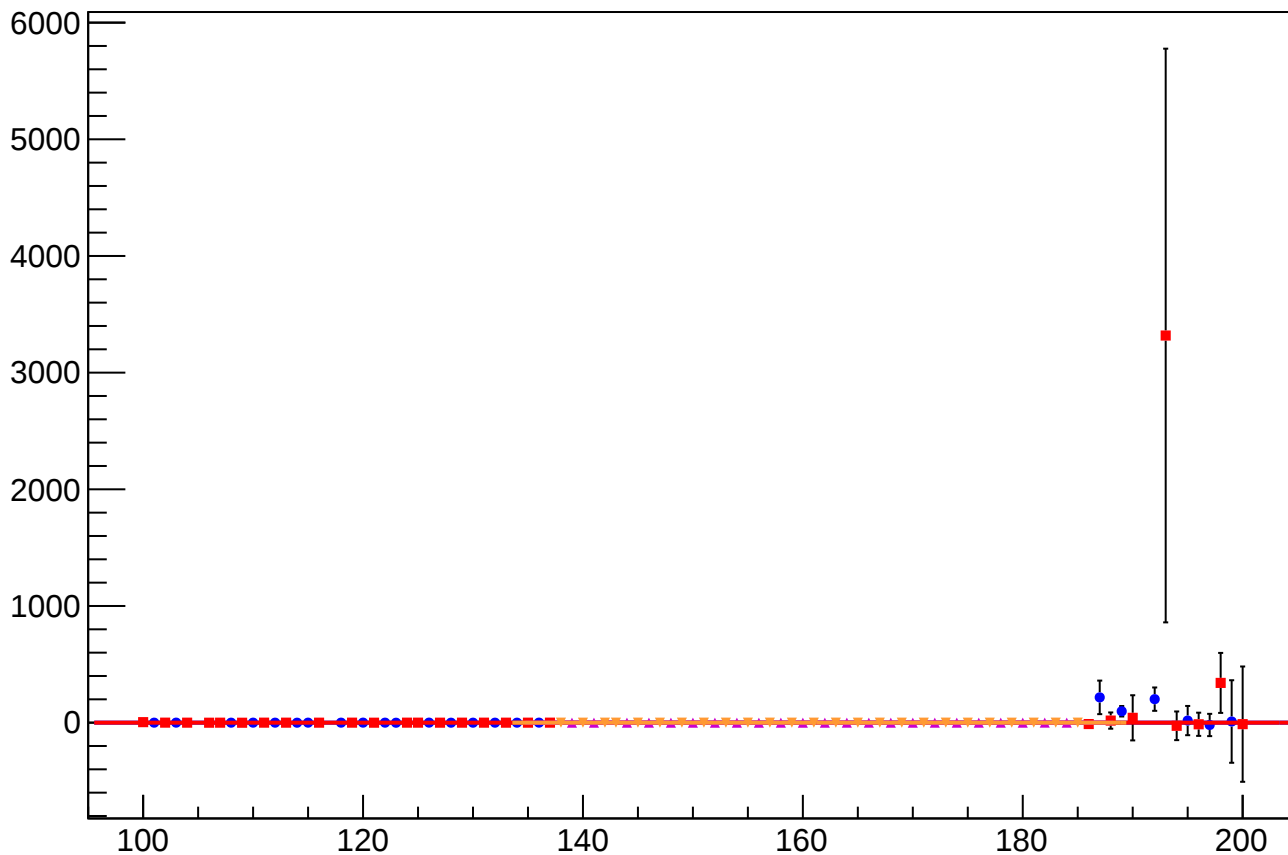
Right: 99.961 $\pm$ 14.497 χ^2 /NDF: 22.9/13

In: 0.002 $\pm$ 0.028 χ^2 /NDF:44.5/28

Out: 0.018 $\pm$ 0.027 χ^2 /NDF:85.9/32

All: 0.010 $\pm$ 0.019 χ^2 /NDF: 130.6/61

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 34.1/22$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 22.5/26$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

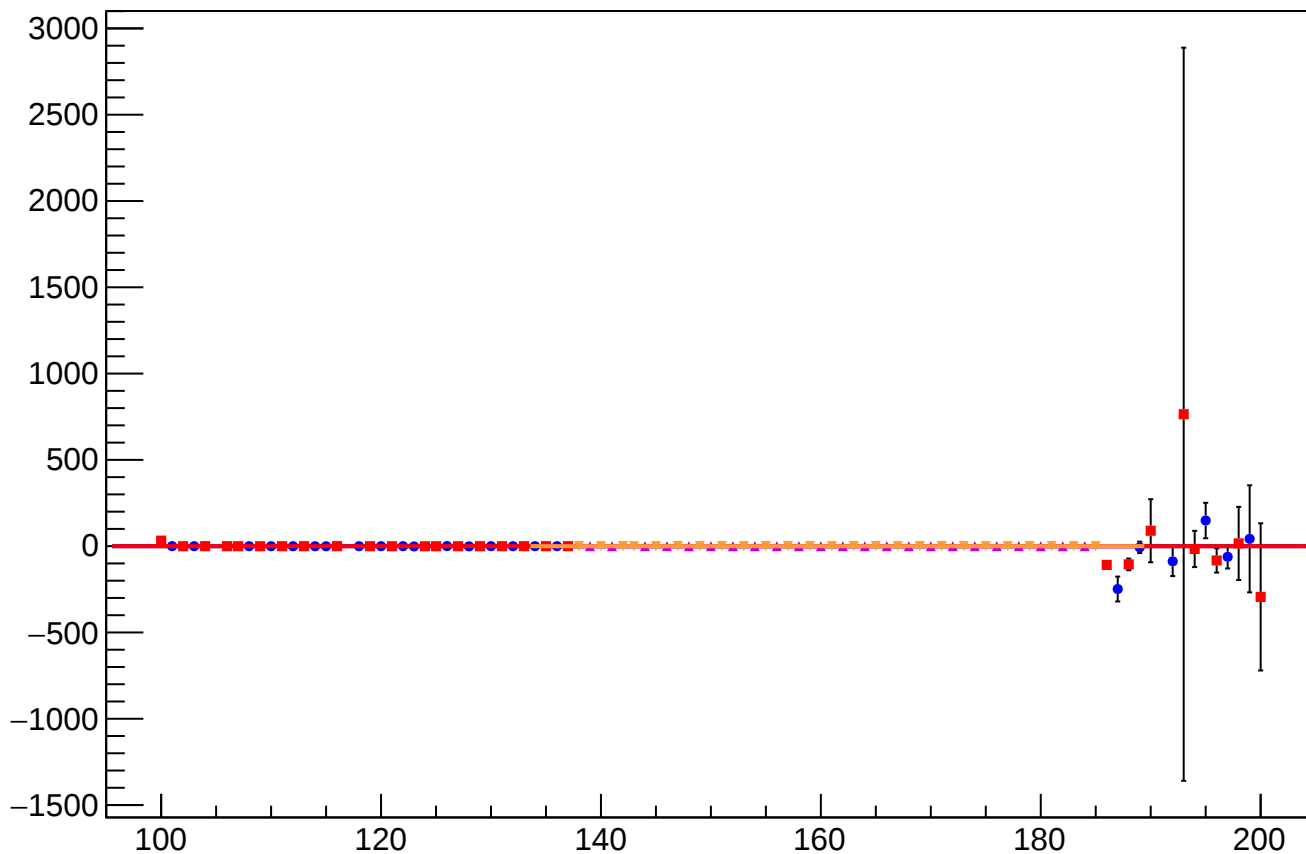
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 59.9/49$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 84.4/45$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 49.0/51$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 133.7/97$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 40.6/22$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 78.1/26$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

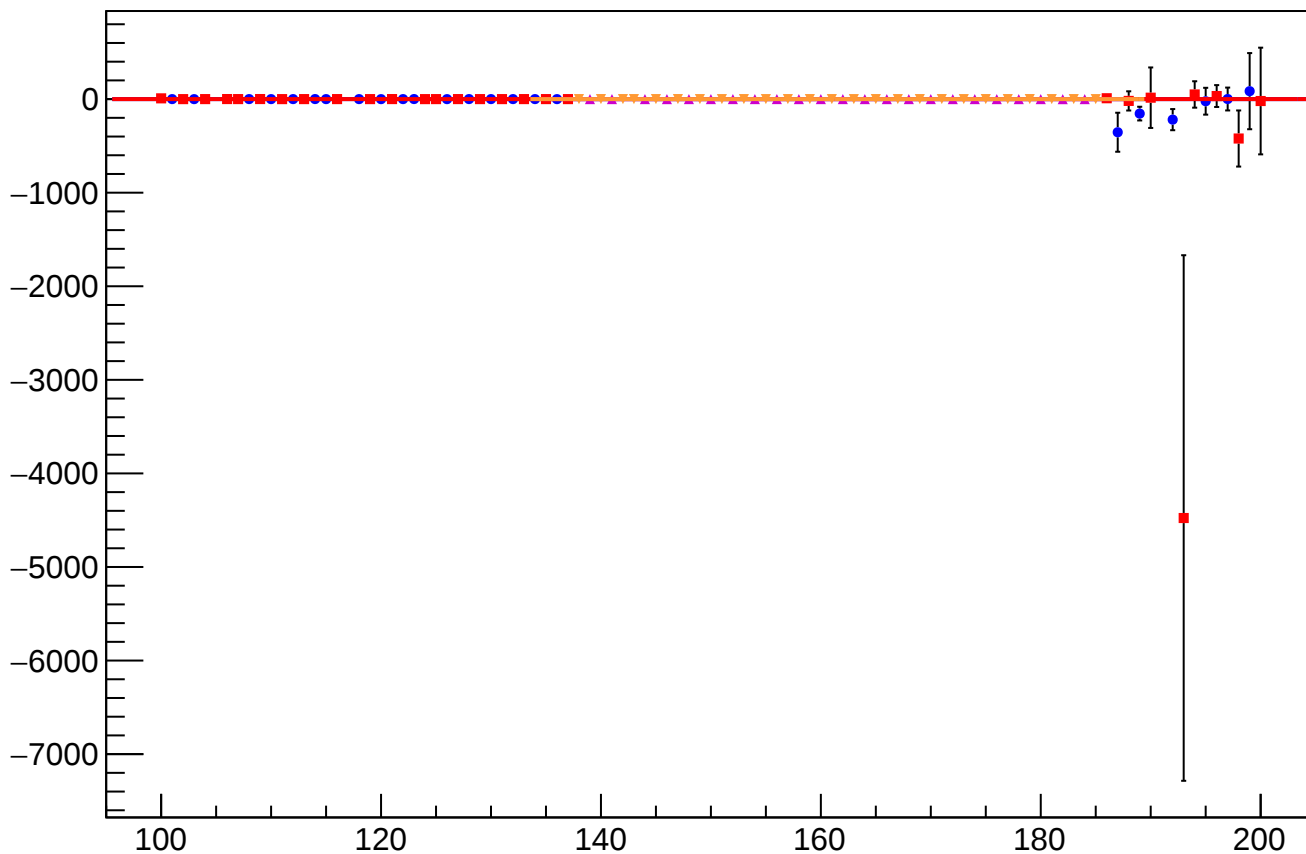
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 118.8/49$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 71.1/45$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 111.0/51$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 182.1/97$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018+/-0.043 χ^2/NDF : 32.8/22

Left Out: 0.063+/-0.024 χ^2/NDF : 24.6/24

Right Out: 0.144+/-0.045 χ^2/NDF : 21.6/26

Left In: 0.069+/-0.025 χ^2/NDF : 51.8/22

Left: 0.066+/-0.017 χ^2/NDF : 76.5/47

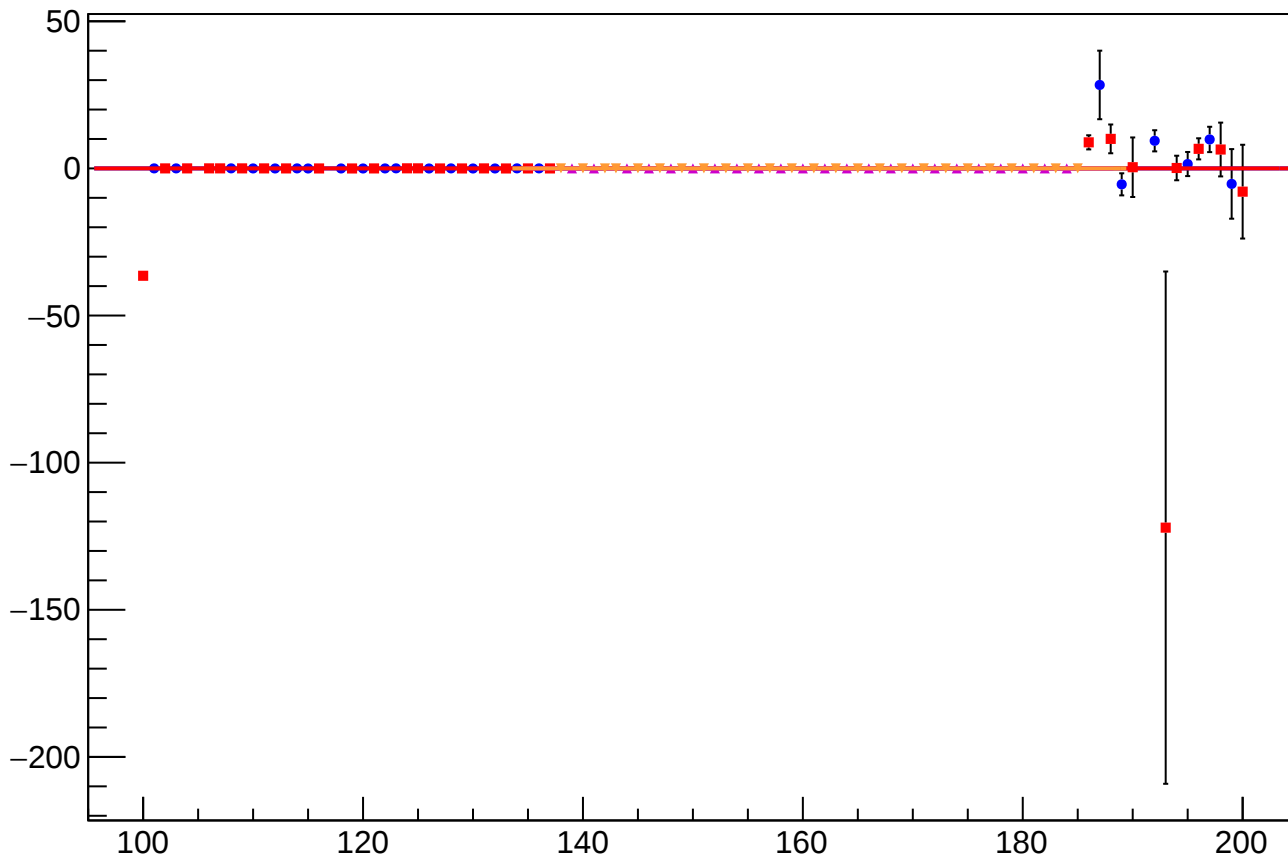
Right: 0.077+/-0.031 χ^2/NDF : 58.5/49

In: 0.056+/-0.021 χ^2/NDF : 85.7/45

Out: 0.081+/-0.021 χ^2/NDF : 48.8/51

All: 0.069+/-0.015 χ^2/NDF : 135.1/97

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 50.9/22

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10473.1/26

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

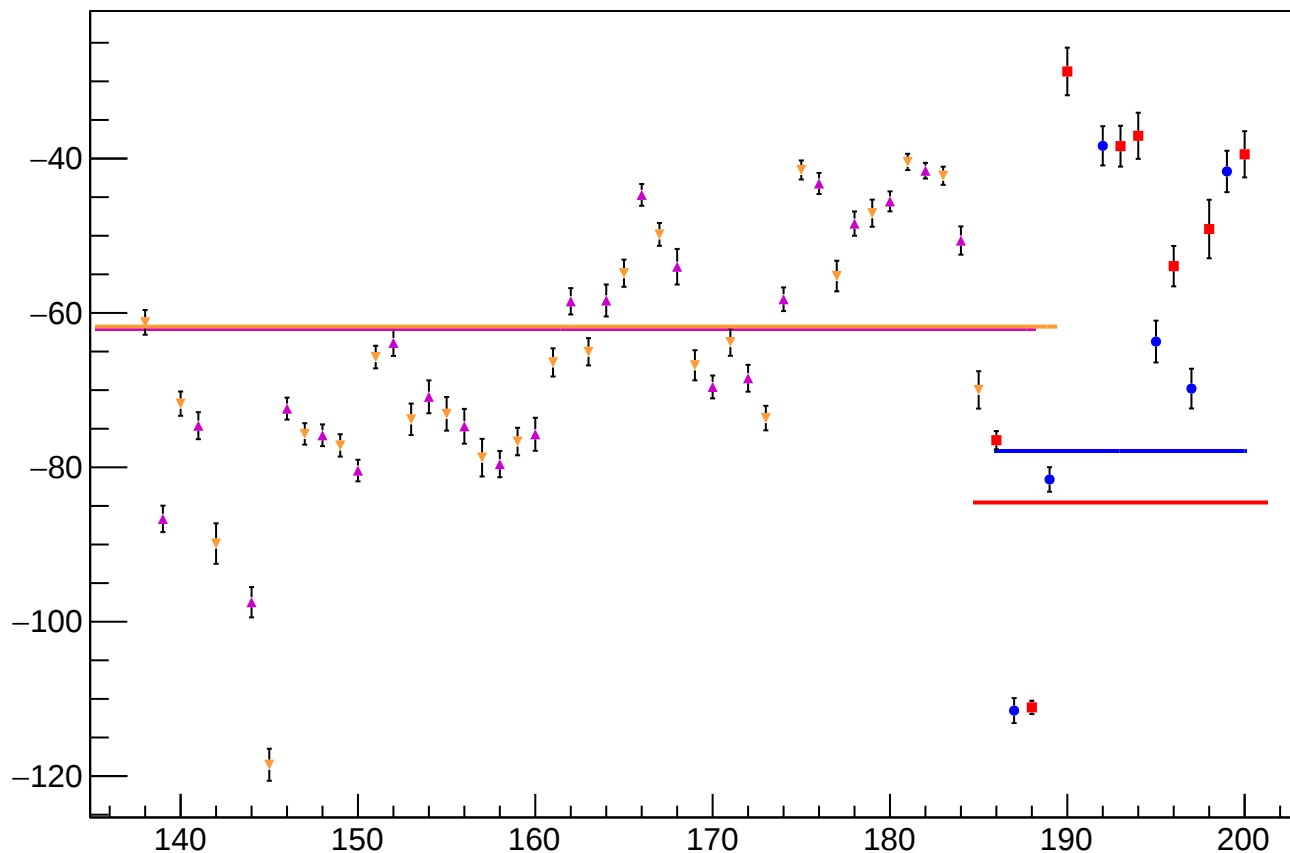
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10524.0/49

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 75.3/45

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10508.3/51

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10583.8/97

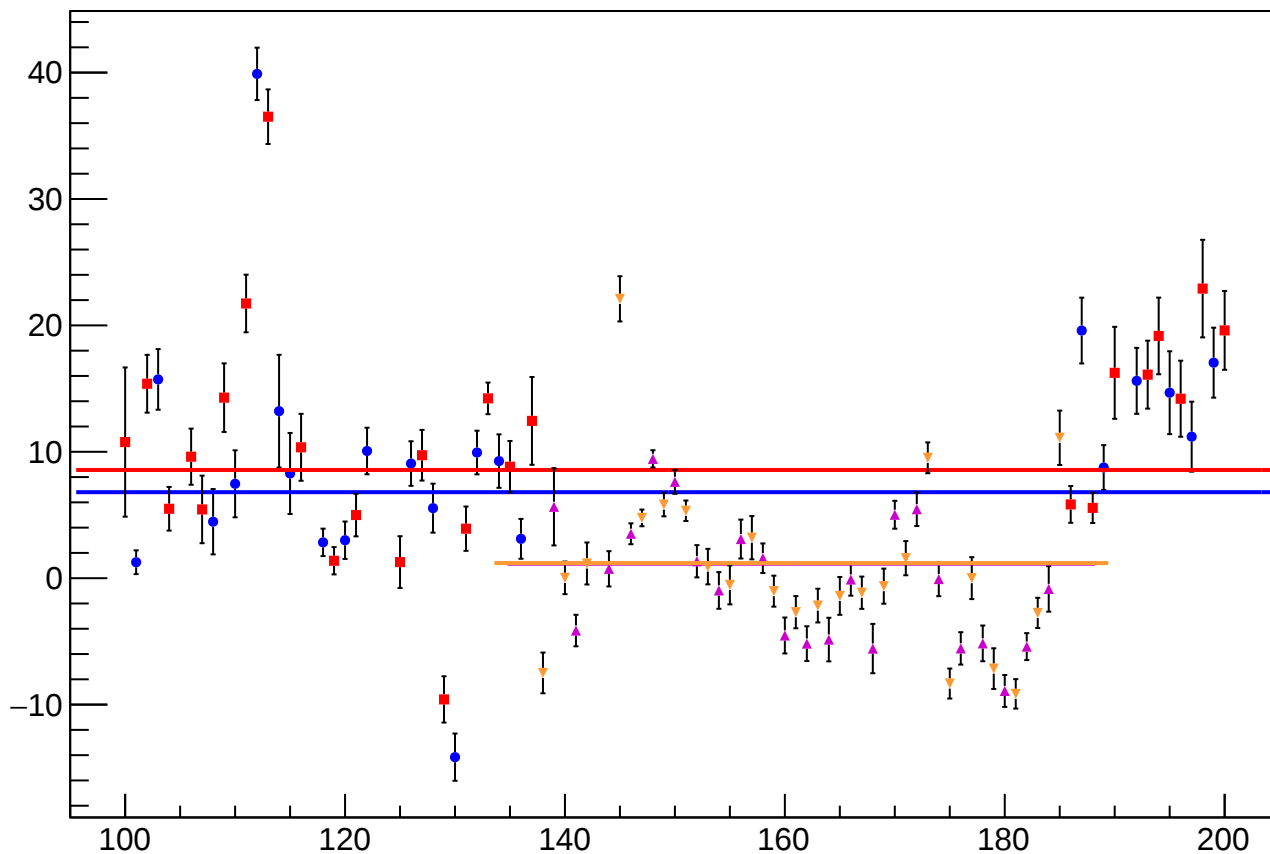
reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -77.883 ± 0.857 $\chi^2/\text{NDF}: 899.6/5$
 Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$
 Right Out: -84.555 ± 0.603 $\chi^2/\text{NDF}: 2326.9/7$
 Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$
 Right: -82.345 ± 0.493 $\chi^2/\text{NDF}: 3267.0/13$
 In: -64.138 ± 0.310 $\chi^2/\text{NDF}: 3387.2/28$
 Out: -67.112 ± 0.292 $\chi^2/\text{NDF}: 5923.4/31$
 All: -65.713 ± 0.213 $\chi^2/\text{NDF}: 9359.4/60$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.805 ± 0.396 $\chi^2/\text{NDF}: 526.4/21$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 8.563 ± 0.388 $\chi^2/\text{NDF}: 472.8/25$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

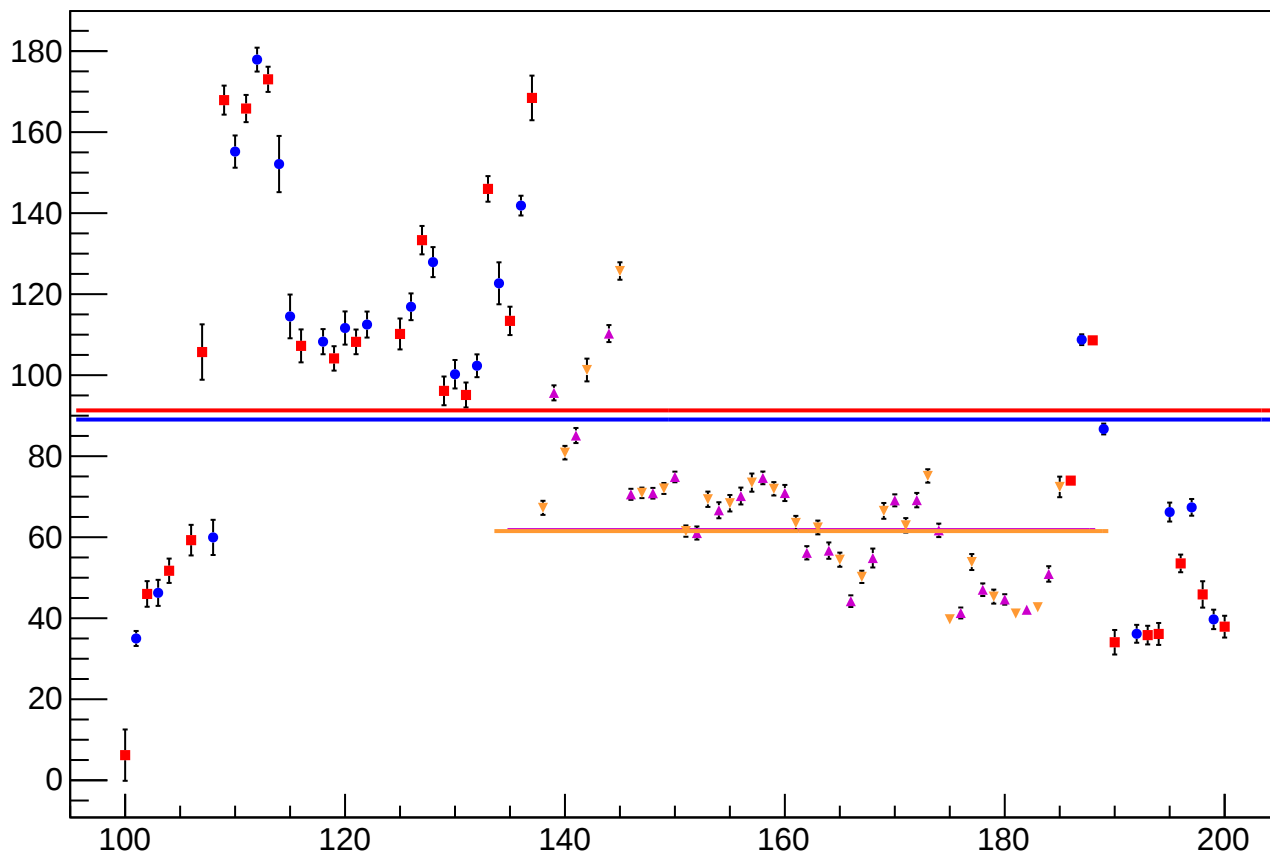
Right: 7.702 ± 0.277 $\chi^2/\text{NDF}: 1009.3/47$

In: 2.809 ± 0.215 $\chi^2/\text{NDF}: 1133.7/44$

Out: 3.391 ± 0.212 $\chi^2/\text{NDF}: 1252.3/49$

All: 3.104 ± 0.151 $\chi^2/\text{NDF}: 2389.7/94$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 89.048 $\pm$ 0.539 χ^2 /NDF: 4633.7/21

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF: 2606.0/23

Right Out: 91.305 $\pm$ 0.426 χ^2 /NDF: 6250.1/25

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF: 2418.2/22

Left: 61.638 $\pm$ 0.234 χ^2 /NDF: 5024.5/46

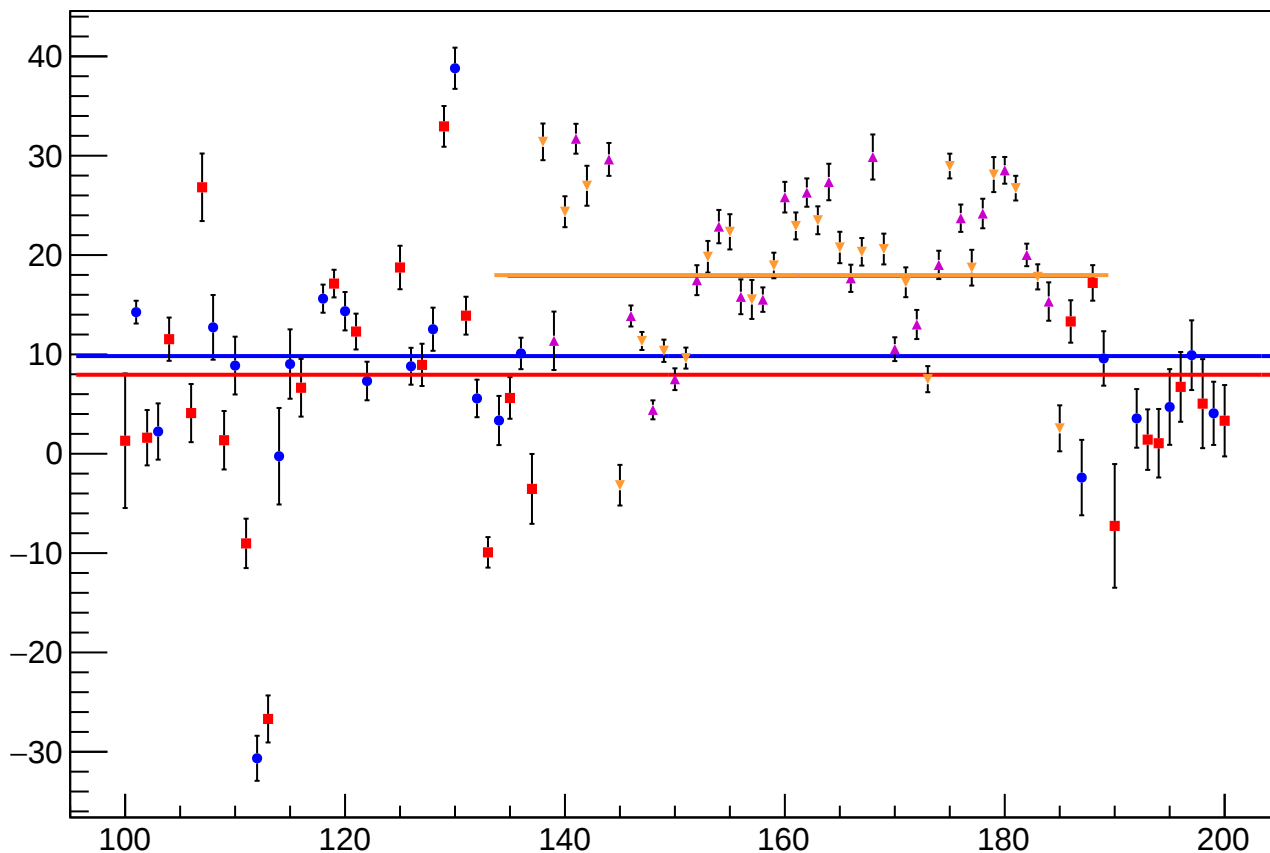
Right: 90.438 $\pm$ 0.334 χ^2 /NDF: 10894.6/47

In: 69.193 $\pm$ 0.281 χ^2 /NDF: 8914.2/44

Out: 72.778 $\pm$ 0.262 χ^2 /NDF: 11895.2/49

All: 71.113 $\pm$ 0.192 χ^2 /NDF: 20896.3/94

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.831 ± 0.467 $\chi^2/\text{NDF}: 599.5/21$

Left Out: 17.980 ± 0.291 $\chi^2/\text{NDF}: 674.4/23$

Right Out: 7.951 ± 0.466 $\chi^2/\text{NDF}: 737.2/25$

Left In: 17.916 ± 0.292 $\chi^2/\text{NDF}: 726.5/22$

Left: 17.948 ± 0.206 $\chi^2/\text{NDF}: 1400.9/46$

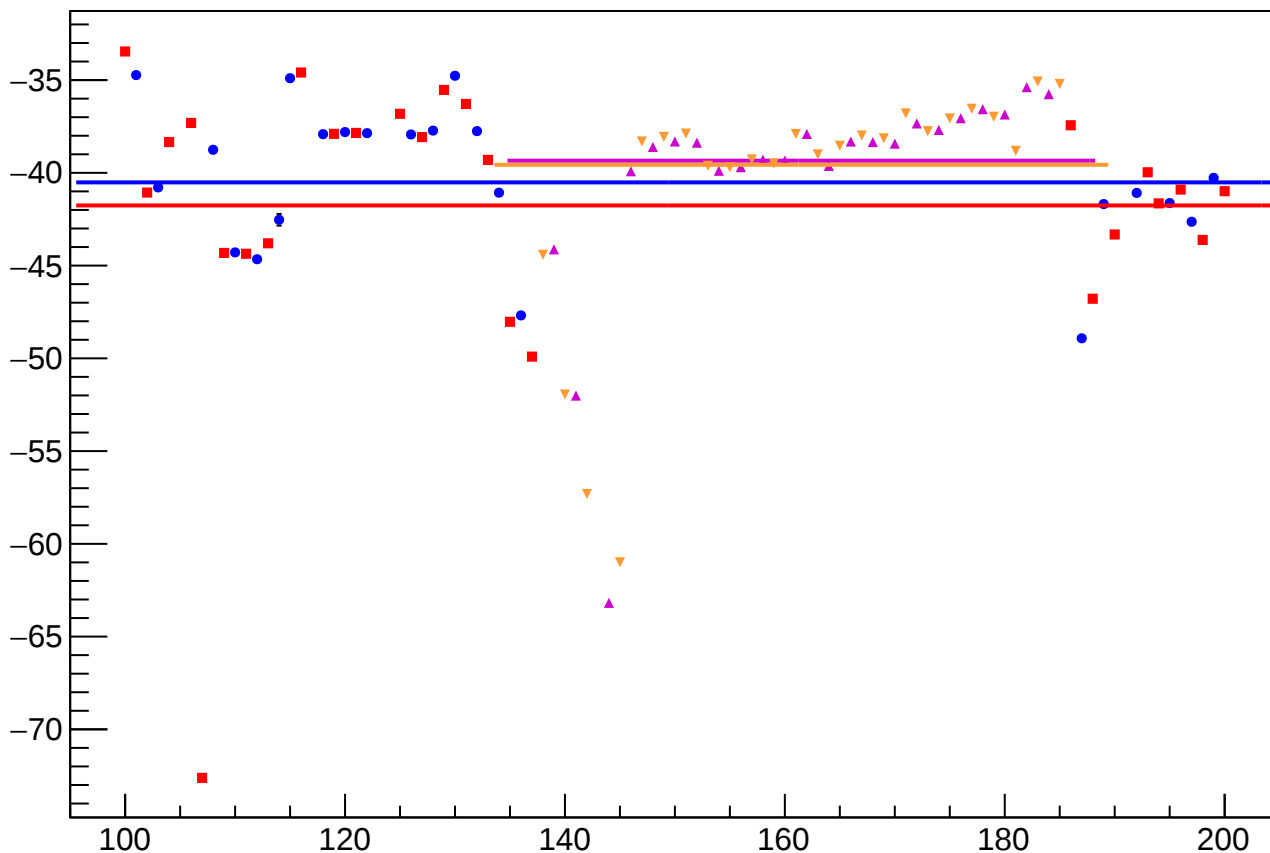
Right: 8.891 ± 0.330 $\chi^2/\text{NDF}: 1344.8/47$

In: 15.636 ± 0.248 $\chi^2/\text{NDF}: 1541.7/44$

Out: 15.171 ± 0.247 $\chi^2/\text{NDF}: 1744.5/49$

All: 15.403 ± 0.175 $\chi^2/\text{NDF}: 3287.9/94$

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.515 ± 0.024 $\chi^2/\text{NDF}: 27331.0/21$

Left Out: -39.566 ± 0.014 $\chi^2/\text{NDF}: 141198.7/23$

Right Out: -41.758 ± 0.023 $\chi^2/\text{NDF}: 66232.5/25$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$

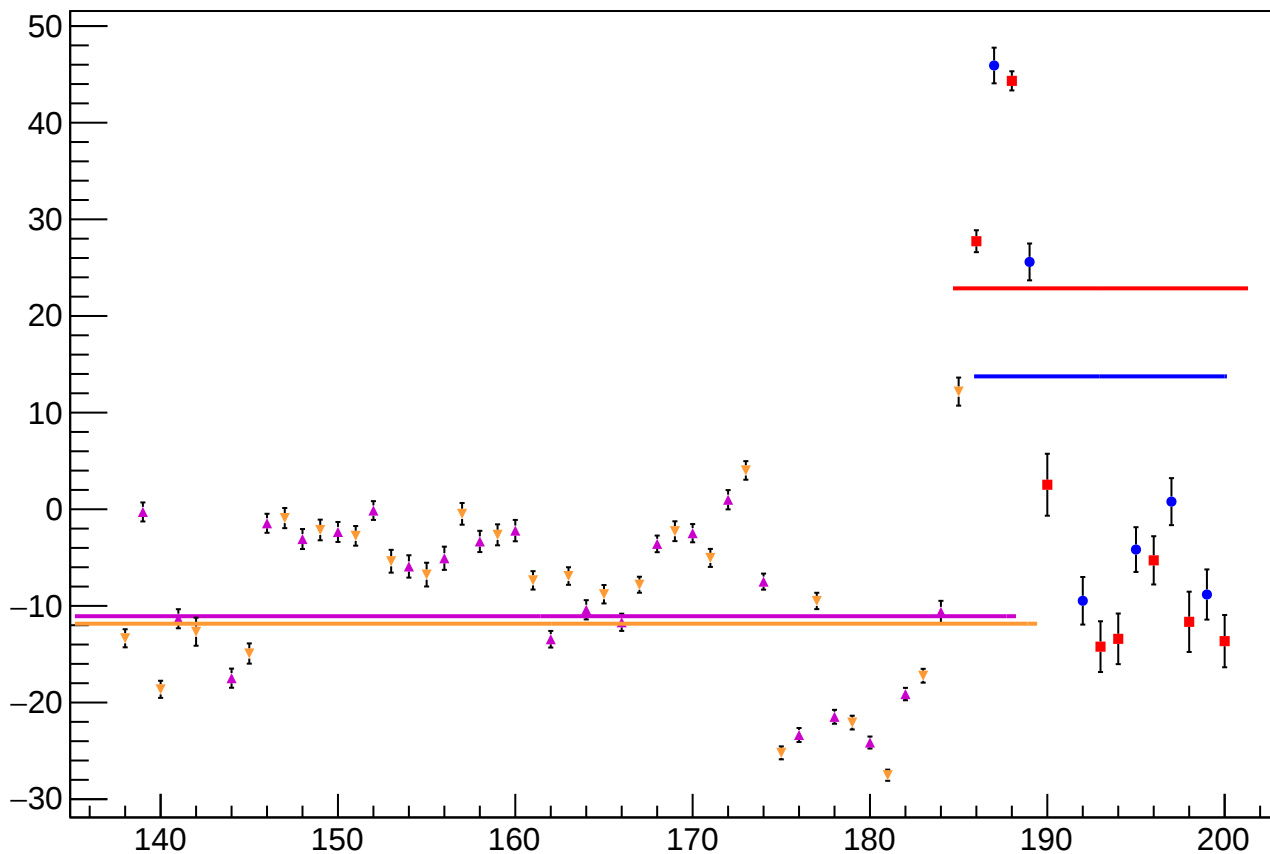
Right: -41.163 ± 0.017 $\chi^2/\text{NDF}: 94936.3/47$

In: -39.624 ± 0.012 $\chi^2/\text{NDF}: 145721.9/44$

Out: -40.134 ± 0.012 $\chi^2/\text{NDF}: 214033.0/49$

All: -39.880 ± 0.008 $\chi^2/\text{NDF}: 360682.6/94$

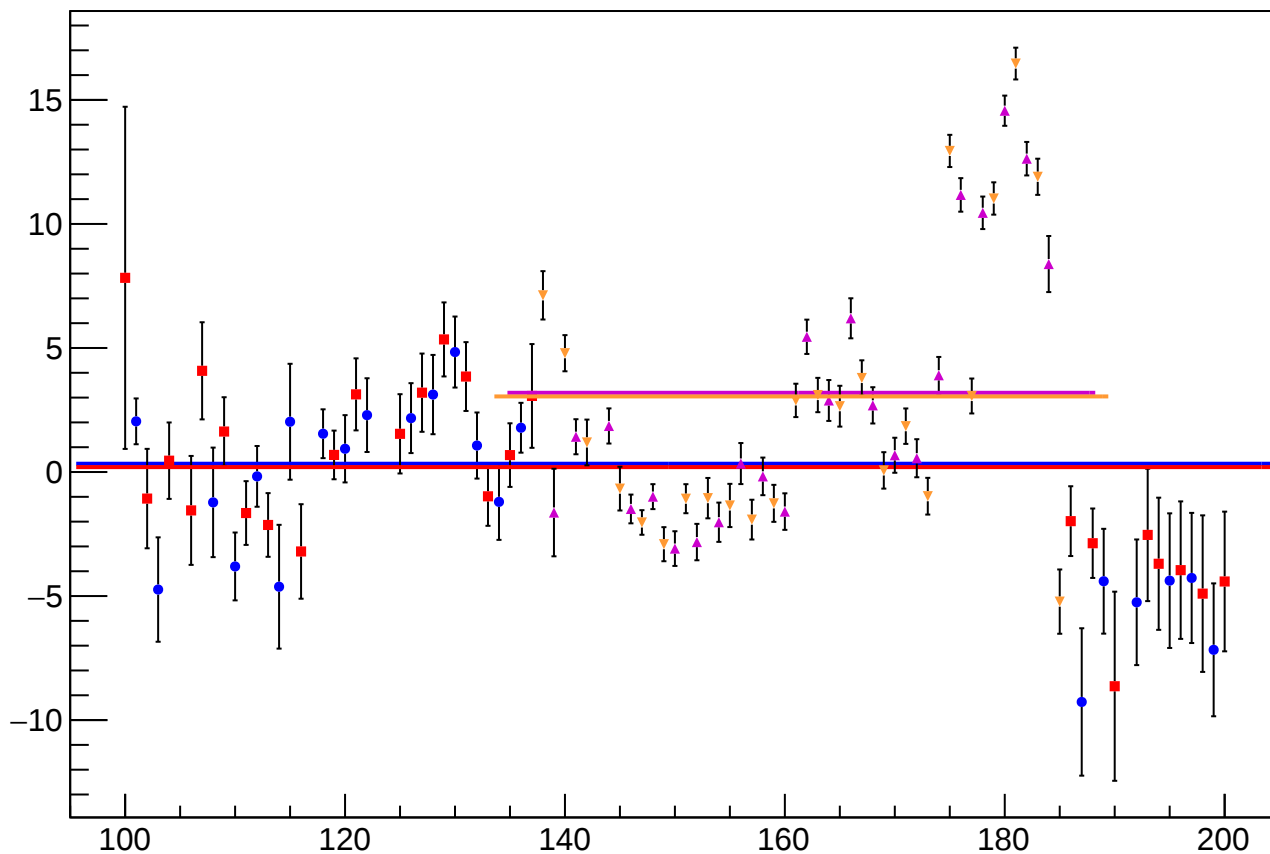
reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.750 ± 0.899 $\chi^2/\text{NDF}: 595.5/5$
 Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$
 Right Out: 22.858 ± 0.622 $\chi^2/\text{NDF}: 1351.7/7$
 Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$
 Right: 19.909 ± 0.511 $\chi^2/\text{NDF}: 2016.6/13$
 In: -10.027 ± 0.184 $\chi^2/\text{NDF}: 3430.7/28$
 Out: -8.971 ± 0.179 $\chi^2/\text{NDF}: 6946.6/31$
 All: -9.484 ± 0.128 $\chi^2/\text{NDF}: 10394.2/60$

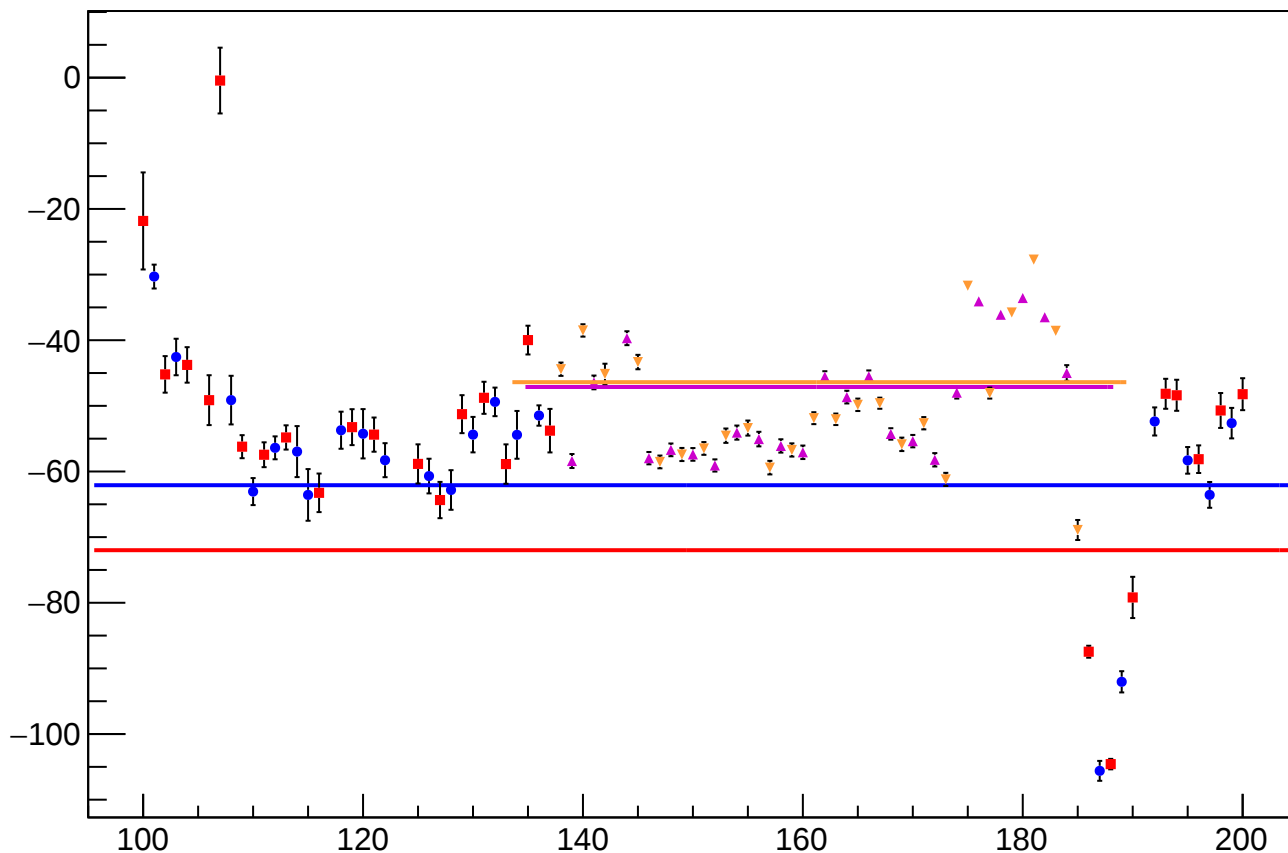
reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.334 ± 0.325 χ^2/NDF : 79.3/21
 Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23
 Right Out: 0.198 ± 0.321 χ^2/NDF : 69.6/25
 Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46
 Right: 0.265 ± 0.228 χ^2/NDF : 149.0/47
 In: 2.693 ± 0.136 χ^2/NDF : 1438.0/44
 Out: 2.548 ± 0.134 χ^2/NDF : 1591.9/49
 All: 2.619 ± 0.096 χ^2/NDF : 3030.5/94

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.091 ± 0.479 χ^2/NDF : 1697.5/21

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -71.992 ± 0.395 χ^2/NDF : 3620.3/25

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

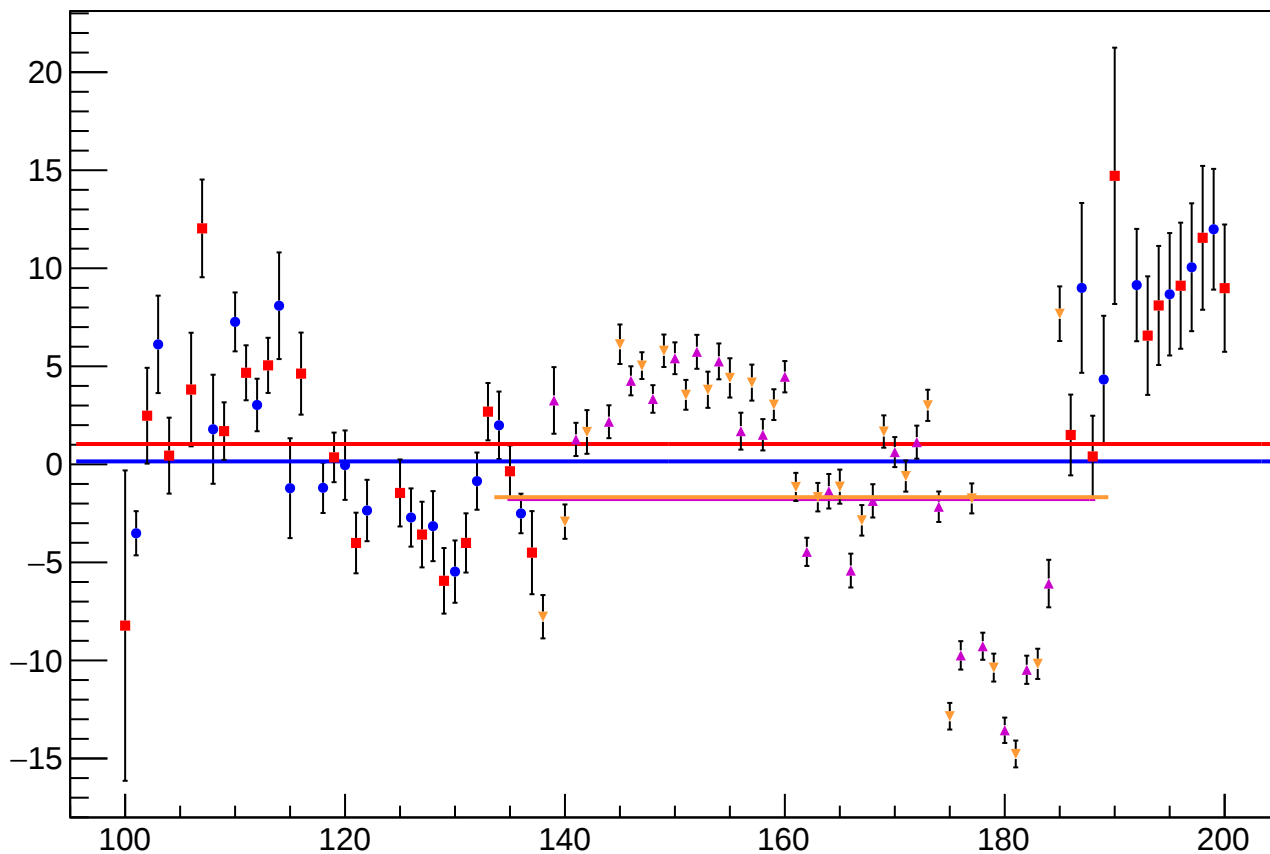
Right: -67.984 ± 0.305 χ^2/NDF : 5572.3/47

In: -49.111 ± 0.174 χ^2/NDF : 5060.5/44

Out: -51.063 ± 0.169 χ^2/NDF : 10342.2/49

All: -50.119 ± 0.121 χ^2/NDF : 15467.5/94

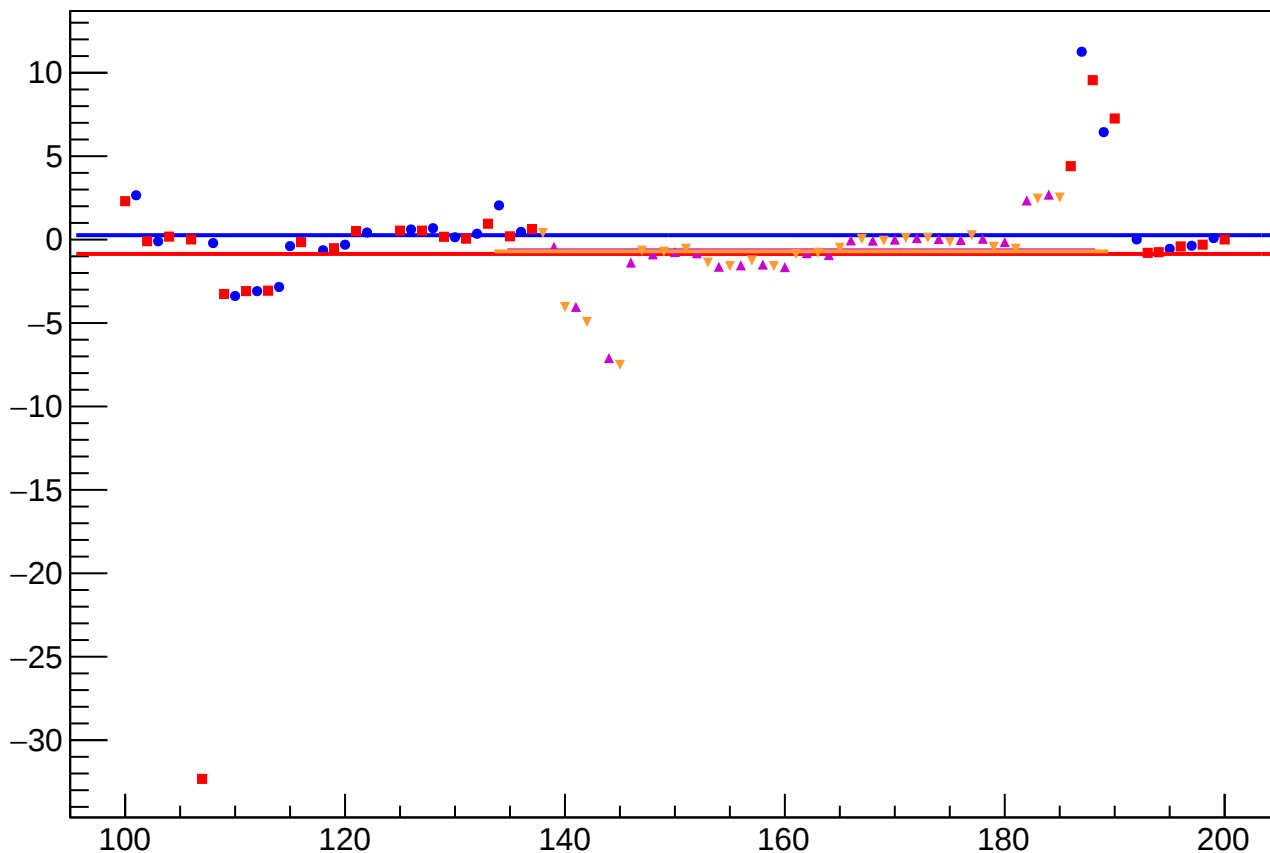
reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.151 ± 0.372 χ^2/NDF : 131.6/21
 Left Out: -1.675 ± 0.167 χ^2/NDF : 1483.8/23
 Right Out: 1.037 ± 0.372 χ^2/NDF : 132.5/25
 Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.723 ± 0.119 χ^2/NDF : 2735.2/46
 Right: 0.593 ± 0.263 χ^2/NDF : 266.9/47
 In: -1.442 ± 0.154 χ^2/NDF : 1405.0/44
 Out: -1.221 ± 0.152 χ^2/NDF : 1660.5/49
 All: -1.330 ± 0.108 χ^2/NDF : 3066.5/94

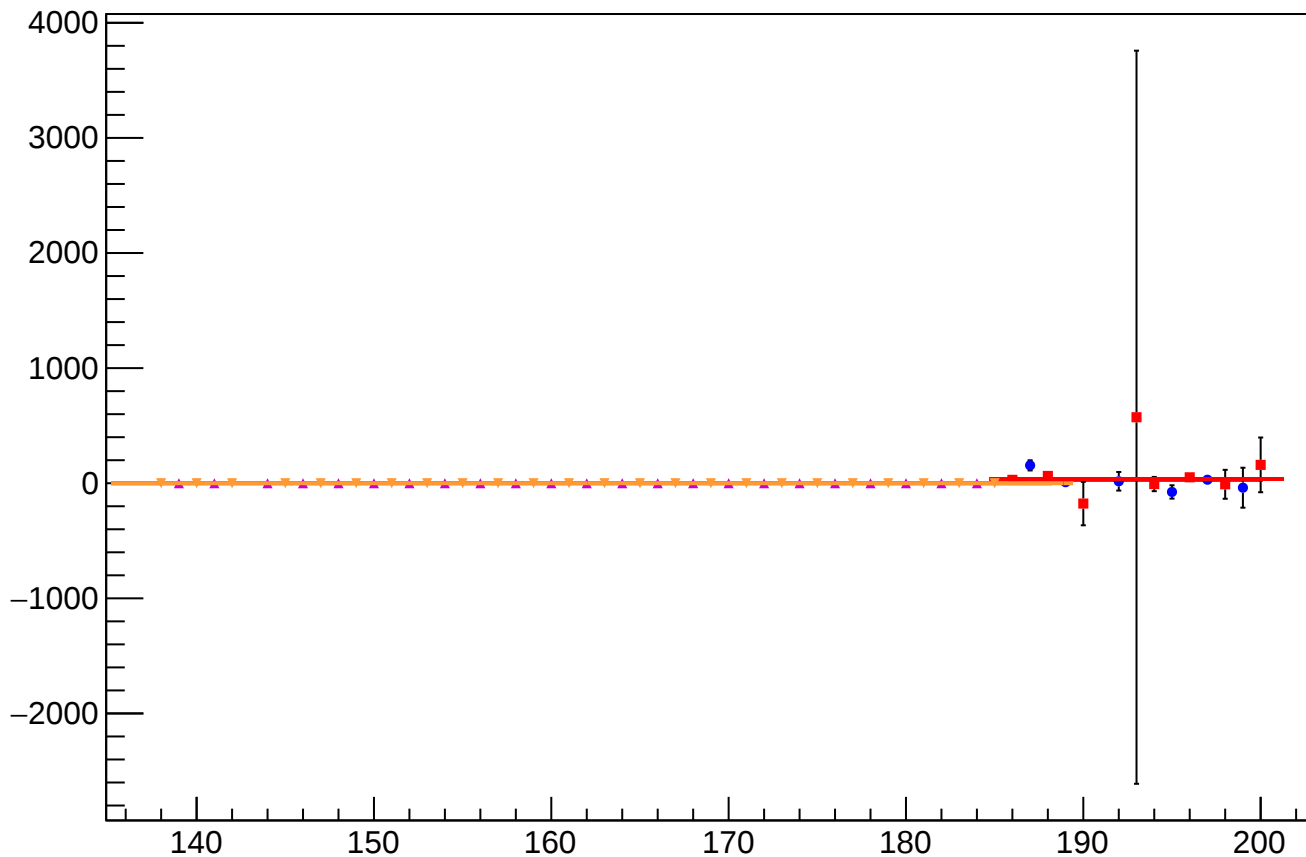
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.265 $\pm$ 0.019 χ^2 /NDF: 9231.8/21
 Left Out: -0.702 $\pm$ 0.008 χ^2 /NDF: 53834.9/23
 Right Out: -0.858 $\pm$ 0.019 χ^2 /NDF: 92388.3/25
 Left In: -0.644 $\pm$ 0.008 χ^2 /NDF: 44169.2/22

Left: -0.673 $\pm$ 0.005 χ^2 /NDF: 98032.6/46
 Right: -0.311 $\pm$ 0.014 χ^2 /NDF: 103338.8/47
 In: -0.521 $\pm$ 0.007 χ^2 /NDF: 55298.3/44
 Out: -0.724 $\pm$ 0.007 χ^2 /NDF: 146281.8/49
 All: -0.623 $\pm$ 0.005 χ^2 /NDF: 201986.5/94

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 30.644+/-18.822 χ^2/NDF : 12.1/5

Left Out: -0.037+/-0.018 χ^2/NDF : 35.4/23

Right Out: 36.946+/-9.970 χ^2/NDF : 4.3/7

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.024+/-0.013 χ^2/NDF : 71.7/46

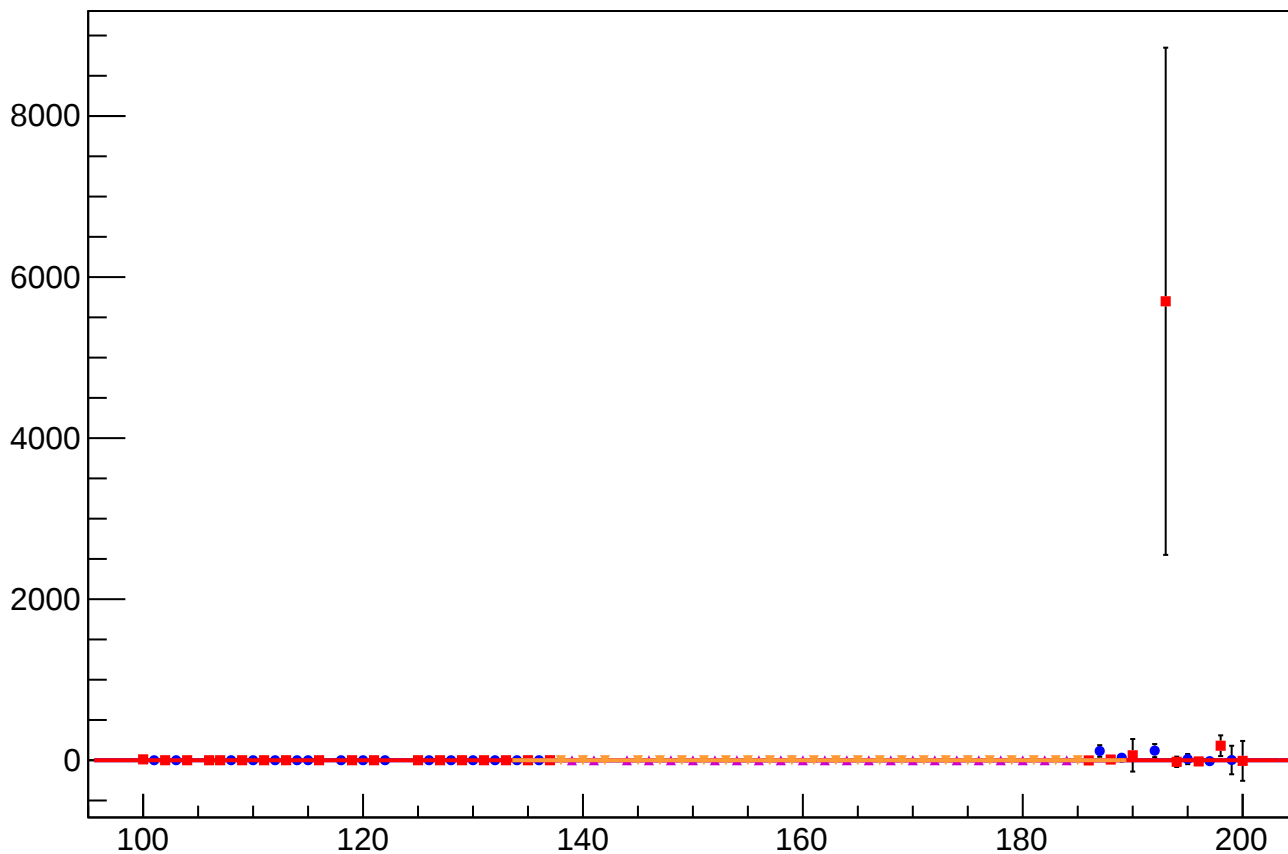
Right: 35.565+/-8.811 χ^2/NDF : 16.5/13

In: -0.010+/-0.018 χ^2/NDF : 49.9/28

Out: -0.037+/-0.018 χ^2/NDF : 53.5/31

All: -0.024+/-0.013 χ^2/NDF : 104.5/60

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 $\chi^2/\text{NDF}: 17.8/21$

Left Out: -0.073 ± 0.014 $\chi^2/\text{NDF}: 27.8/23$

Right Out: -0.088 ± 0.025 $\chi^2/\text{NDF}: 18.5/25$

Left In: -0.064 ± 0.014 $\chi^2/\text{NDF}: 41.1/22$

Left: -0.068 ± 0.010 $\chi^2/\text{NDF}: 69.1/46$

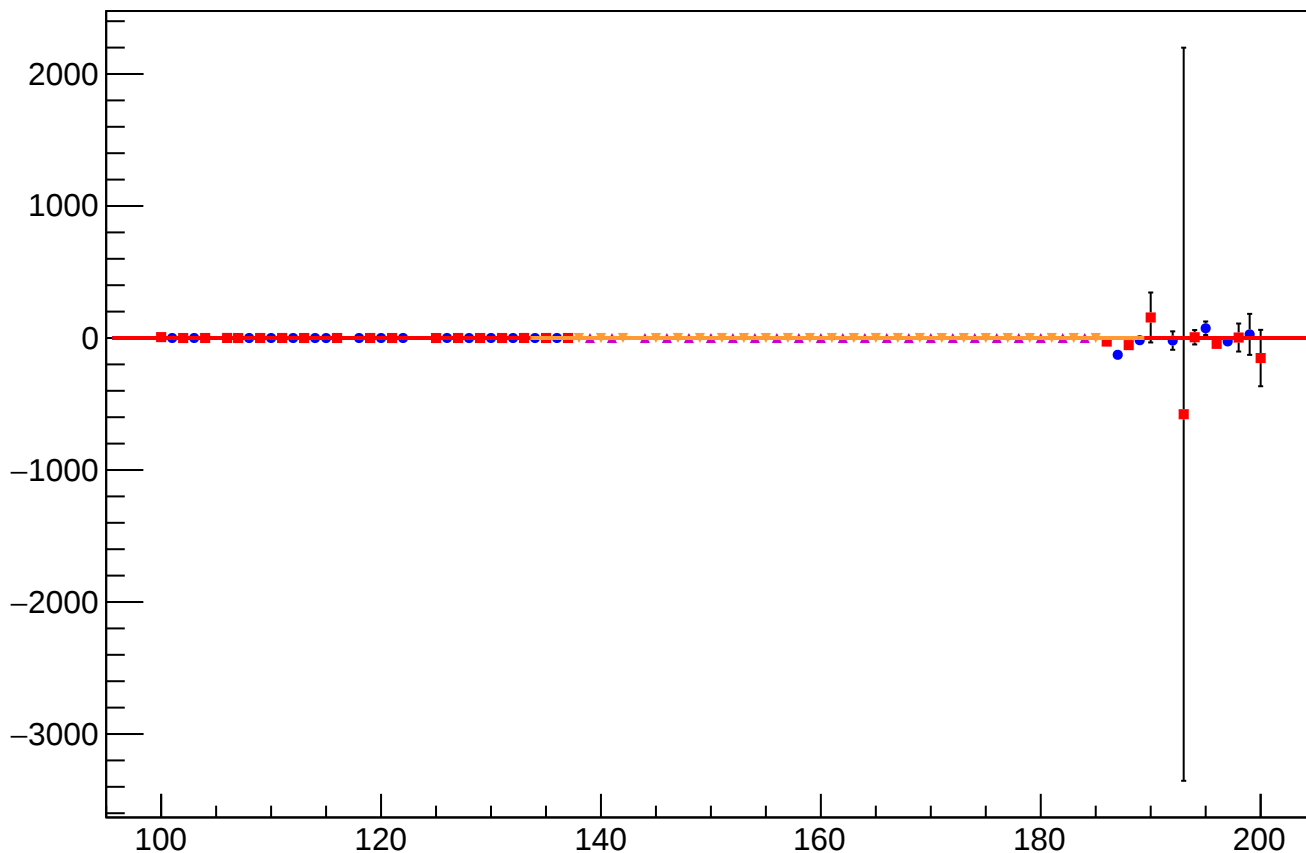
Right: -0.049 ± 0.017 $\chi^2/\text{NDF}: 41.1/47$

In: -0.050 ± 0.012 $\chi^2/\text{NDF}: 62.2/44$

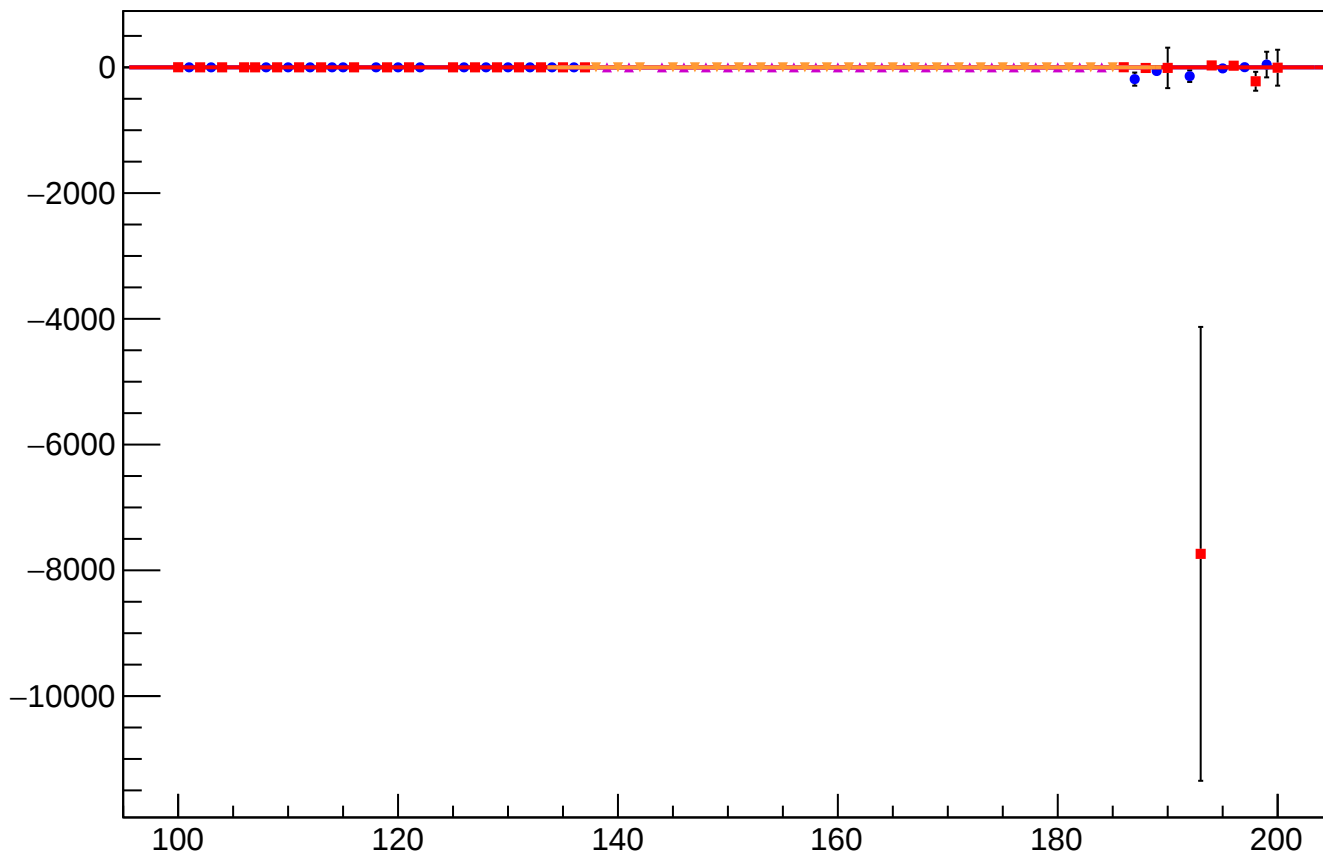
Out: -0.076 ± 0.012 $\chi^2/\text{NDF}: 46.6/49$

All: -0.063 ± 0.009 $\chi^2/\text{NDF}: 111.1/94$

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 18.6/21

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF: 27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 15.3/25

Left In: 0.070 $\pm$ 0.016 χ^2 /NDF: 44.8/22

Left: 0.078 $\pm$ 0.011 χ^2 /NDF: 73.1/46

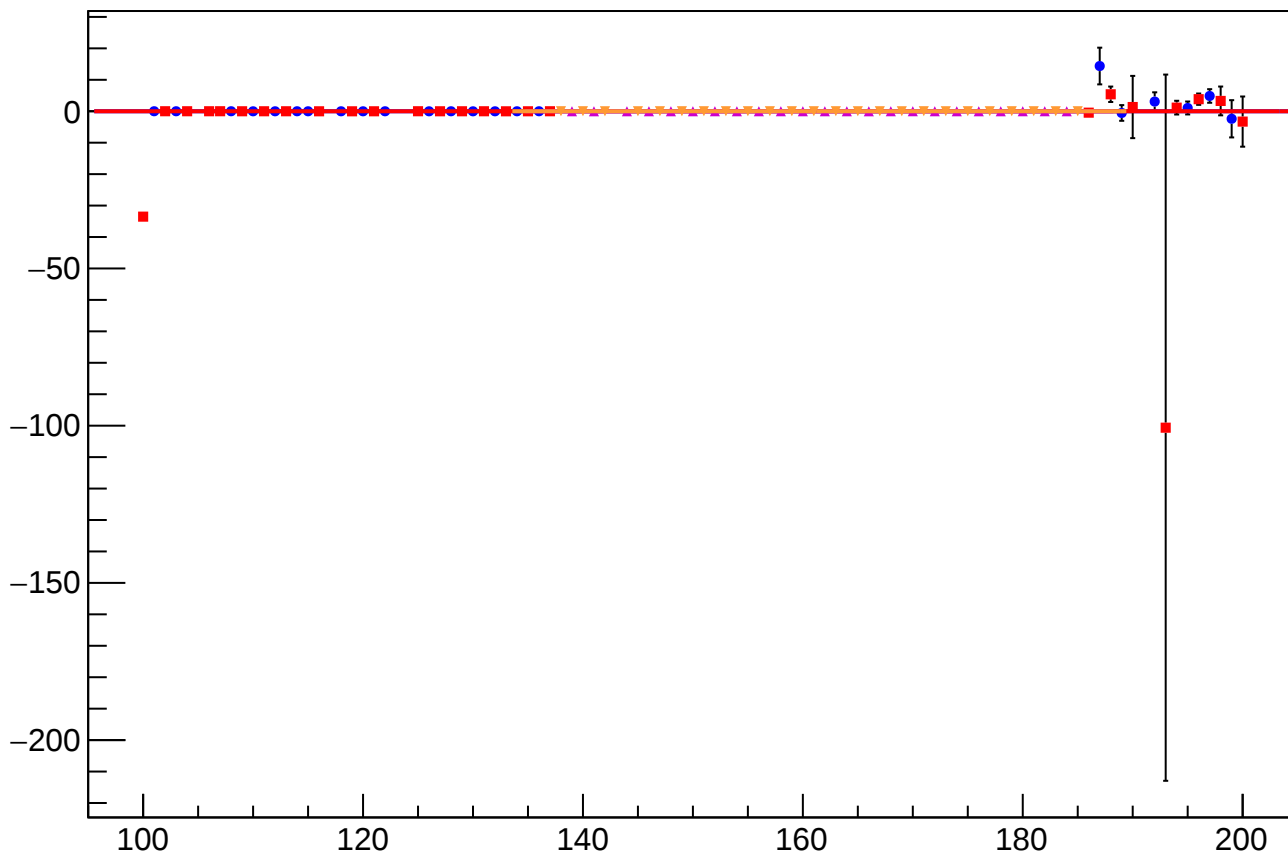
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 39.9/47

In: 0.053 $\pm$ 0.014 χ^2 /NDF: 67.2/44

Out: 0.091 $\pm$ 0.014 χ^2 /NDF: 43.4/49

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 114.1/94

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005+/-0.001 χ^2/NDF : 34.2/21

Left Out: 0.000+/-0.001 χ^2/NDF : 23.6/23

Right Out: -0.006+/-0.001 χ^2/NDF : 26520.2/25

Left In: 0.000+/-0.001 χ^2/NDF : 22.3/22

Left: 0.000+/-0.001 χ^2/NDF : 45.9/46

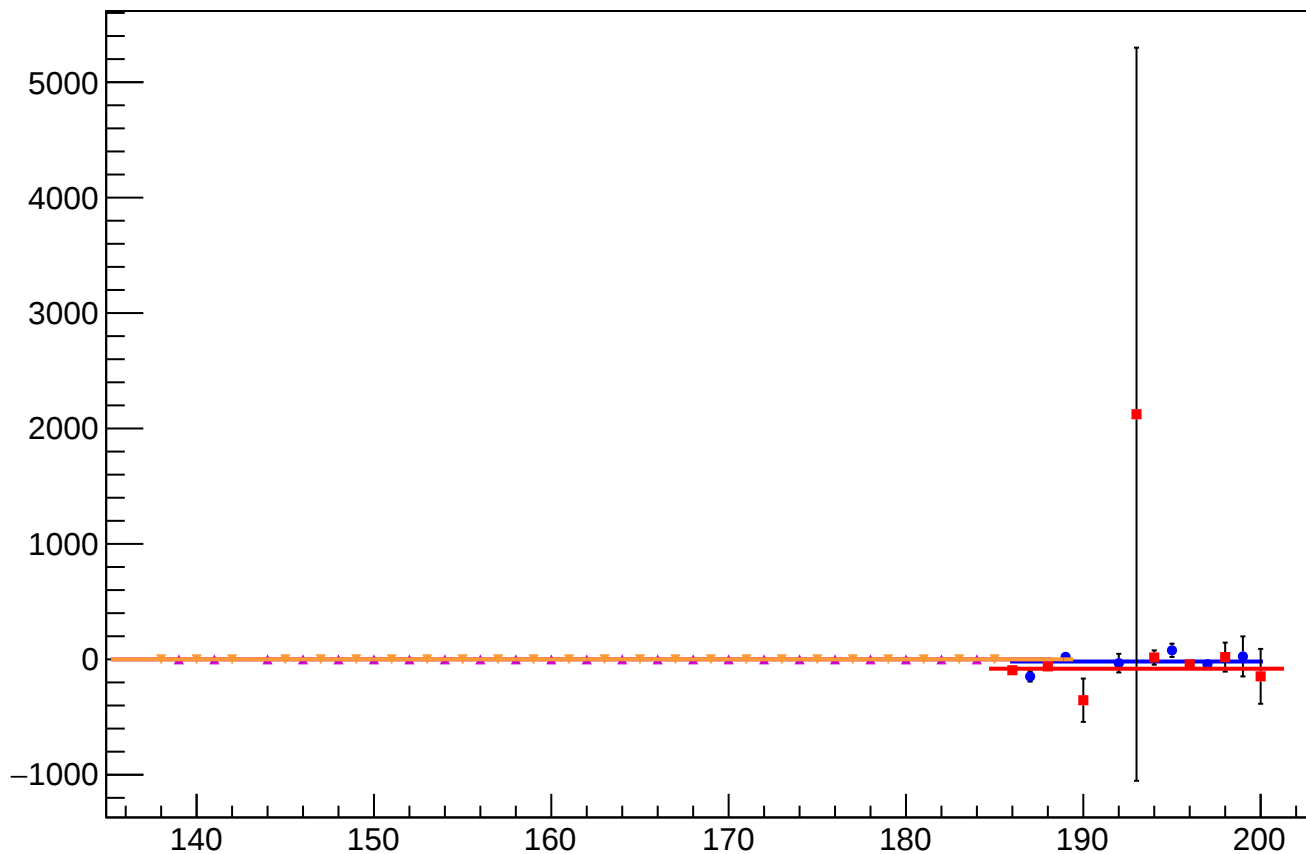
Right: -0.006+/-0.001 χ^2/NDF : 26554.5/47

In: -0.001+/-0.001 χ^2/NDF : 68.2/44

Out: -0.001+/-0.001 χ^2/NDF : 26558.9/49

All: -0.001+/-0.000 χ^2/NDF : 26627.2/94

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.805 ± 18.812 χ^2/NDF : 13.9/5

Left Out: -0.052 ± 0.018 χ^2/NDF : 37.3/23

Right Out: -81.254 ± 9.973 χ^2/NDF : 8.7/7

Left In: -0.009 ± 0.018 χ^2/NDF : 35.1/22

Left: -0.031 ± 0.013 χ^2/NDF : 75.3/46

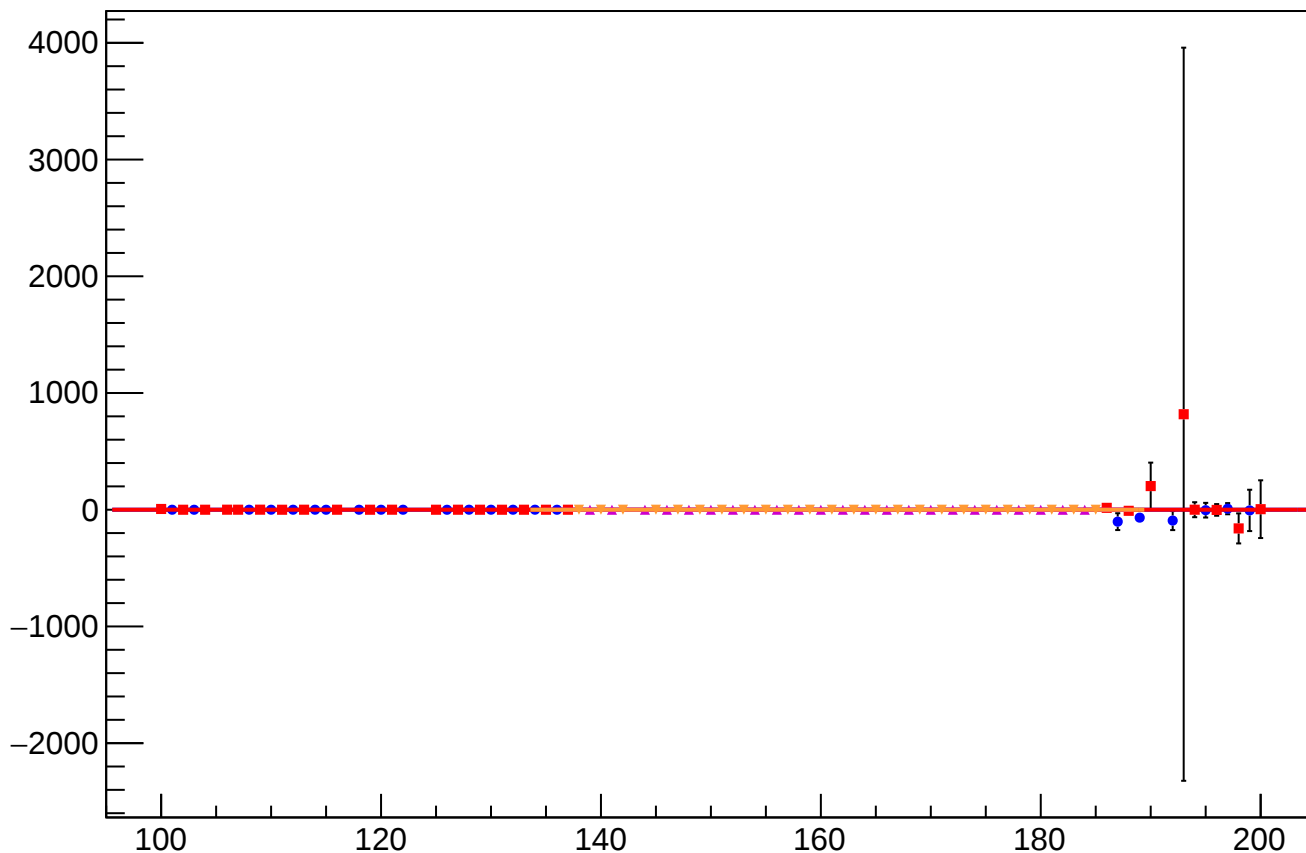
Right: -67.553 ± 8.811 χ^2/NDF : 31.2/13

In: -0.009 ± 0.018 χ^2/NDF : 50.0/28

Out: -0.052 ± 0.018 χ^2/NDF : 112.4/31

All: -0.031 ± 0.013 χ^2/NDF : 165.2/60

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.023 χ^2/NDF : 33.0/21

Left Out: -0.011+/-0.014 χ^2/NDF : 29.6/23

Right Out: 0.037+/-0.025 χ^2/NDF : 32.6/25

Left In: 0.005+/-0.014 χ^2/NDF : 49.6/22

Left: -0.003+/-0.010 χ^2/NDF : 79.7/46

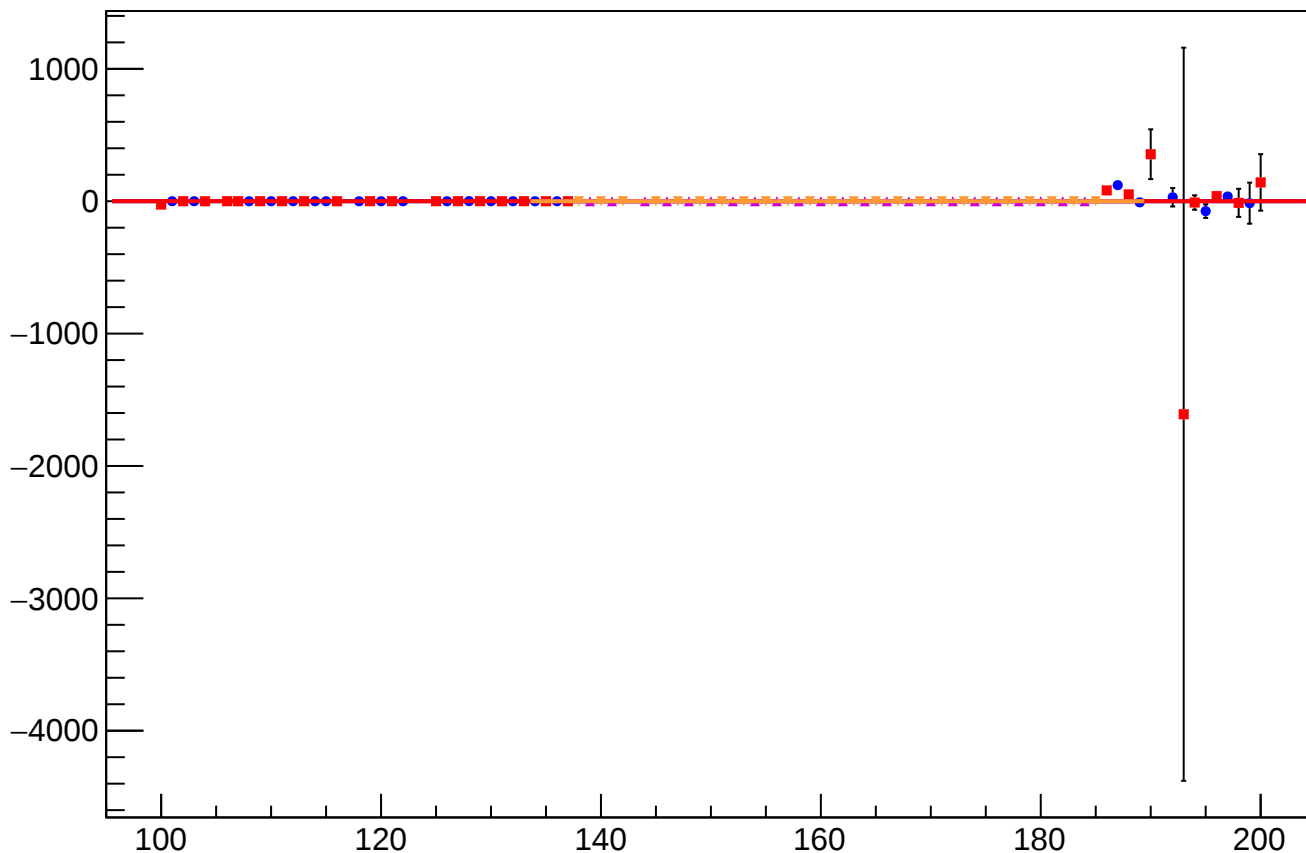
Right: 0.021+/-0.017 χ^2/NDF : 66.3/47

In: 0.006+/-0.012 χ^2/NDF : 82.6/44

Out: 0.001+/-0.012 χ^2/NDF : 64.9/49

All: 0.003+/-0.009 χ^2/NDF : 147.6/94

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 44.5/21

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 107.5/25

Left In: 0.020 $\pm$ 0.018 χ^2 /NDF:35.8/22

Left: 0.034 $\pm$ 0.013 χ^2 /NDF: 72.4/46

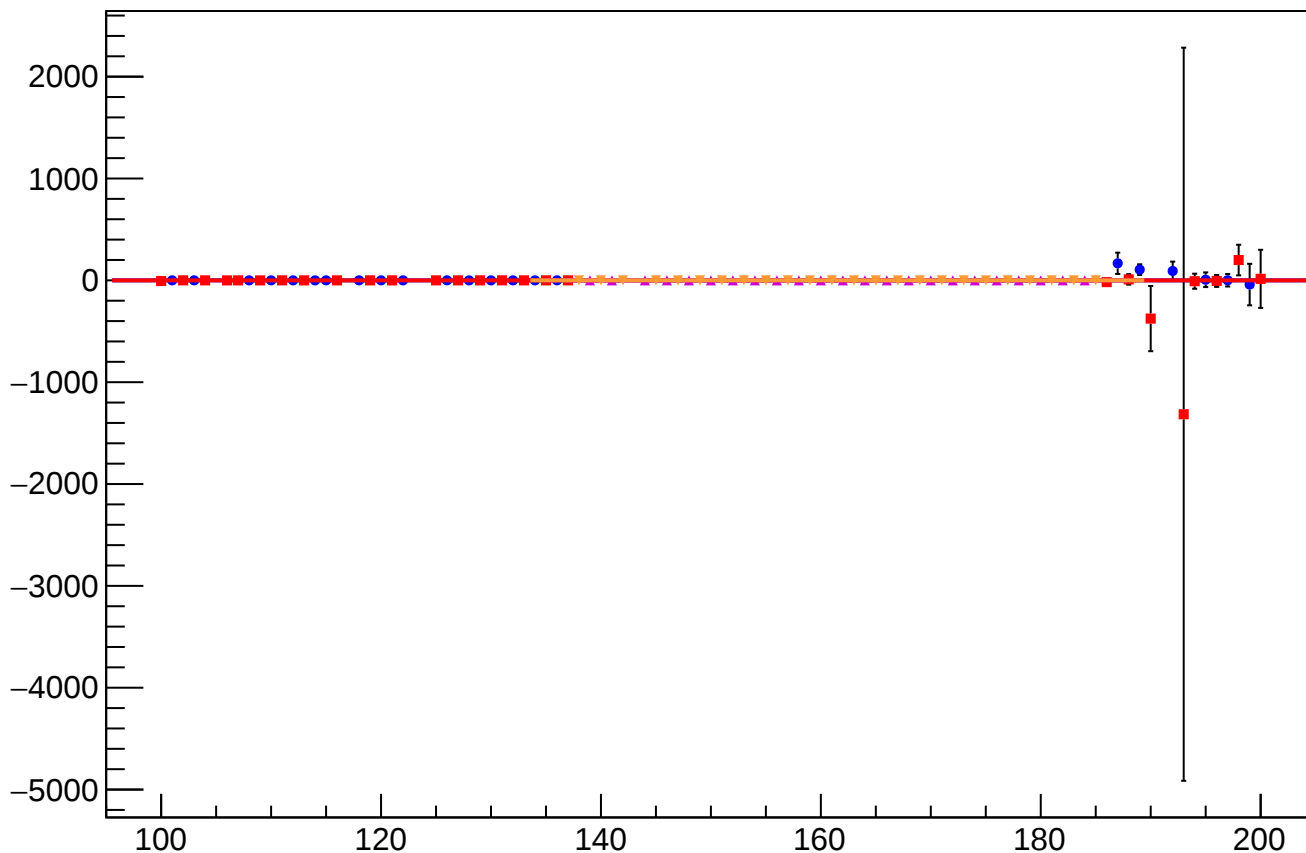
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 152.4/47

In: 0.040 $\pm$ 0.017 χ^2 /NDF:89.0/44

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:152.4/49

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 242.8/94

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 32.3/21

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 30.2/25

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

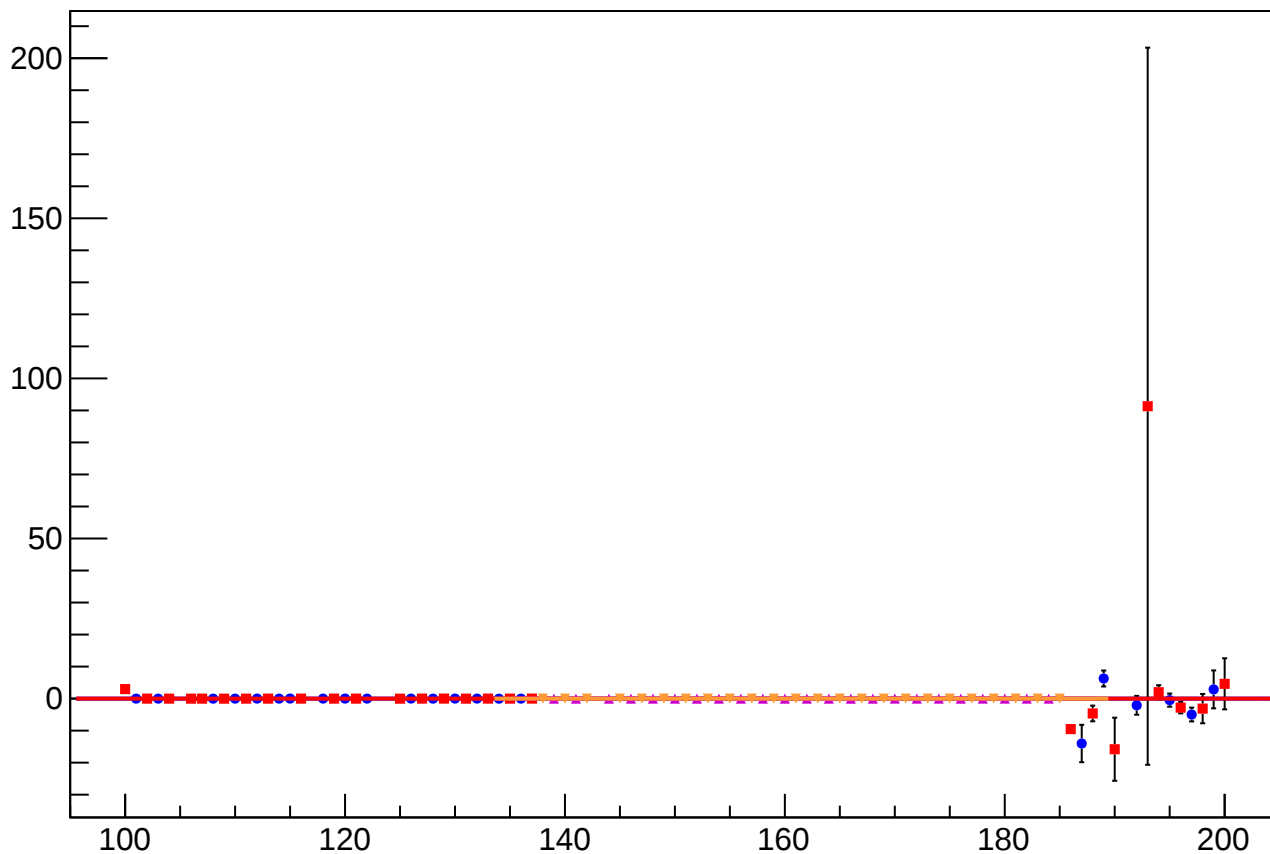
Right: -0.027 ± 0.020 χ^2/NDF : 63.4/47

In: 0.002 ± 0.014 χ^2/NDF : 82.7/44

Out: 0.005 ± 0.014 χ^2/NDF : 67.8/49

All: 0.004 ± 0.010 χ^2/NDF : 150.5/94

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2/NDF : 45.6/21

Left Out: -0.008+/-0.001 χ^2/NDF : 32.0/23

Right Out: -0.006+/-0.001 χ^2/NDF : 213.7/25

Left In: -0.009+/-0.001 χ^2/NDF : 37.2/22

Left: -0.008+/-0.001 χ^2/NDF : 69.4/46

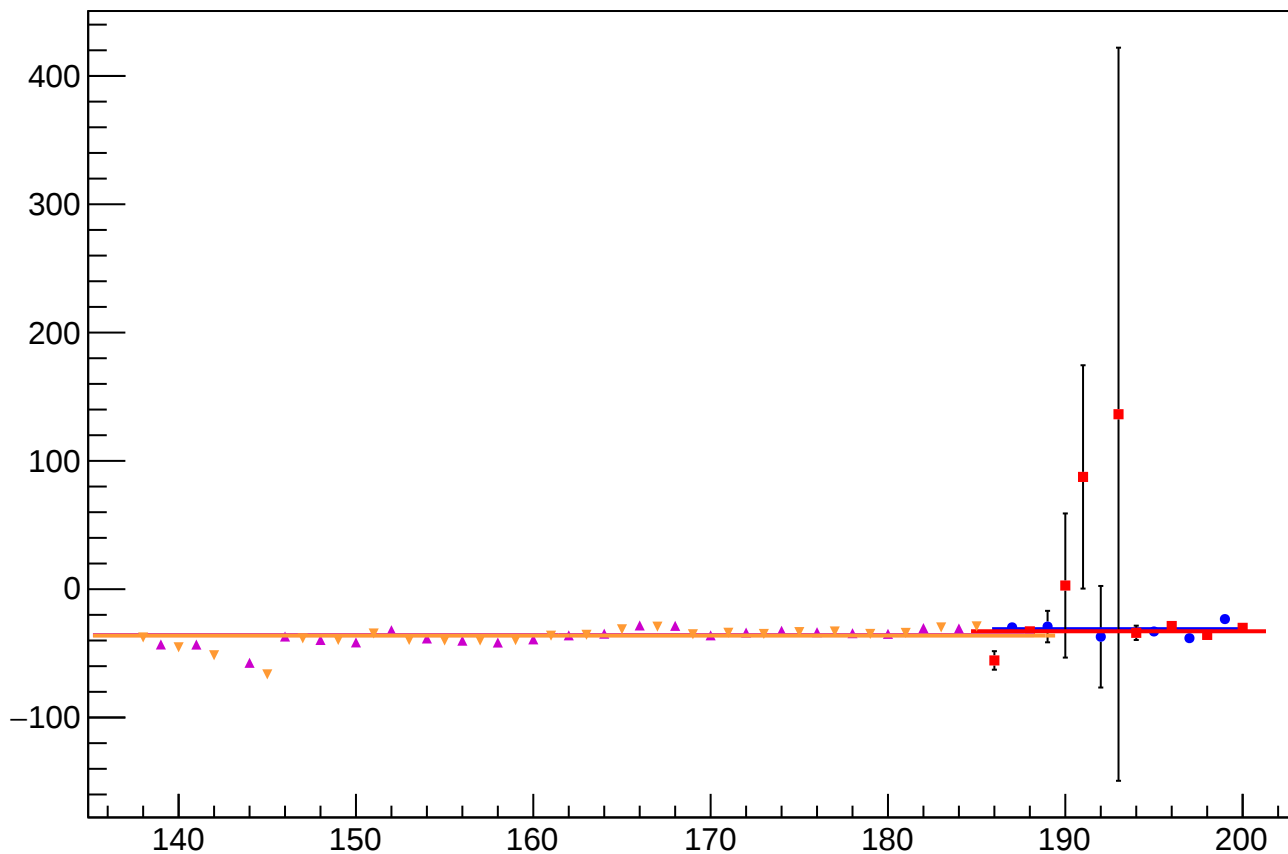
Right: -0.006+/-0.001 χ^2/NDF : 259.4/47

In: -0.008+/-0.001 χ^2/NDF : 85.4/44

Out: -0.008+/-0.001 χ^2/NDF : 247.8/49

All: -0.008+/-0.000 χ^2/NDF : 333.4/94

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.156 ± 1.228 $\chi^2/\text{NDF}: 14.0/5$

Left Out: -36.120 ± 0.192 $\chi^2/\text{NDF}: 1114.9/23$

Right Out: -32.795 ± 0.963 $\chi^2/\text{NDF}: 16.1/8$

Left In: -35.779 ± 0.191 $\chi^2/\text{NDF}: 854.1/22$

Left: -35.949 ± 0.136 $\chi^2/\text{NDF}: 1970.6/46$

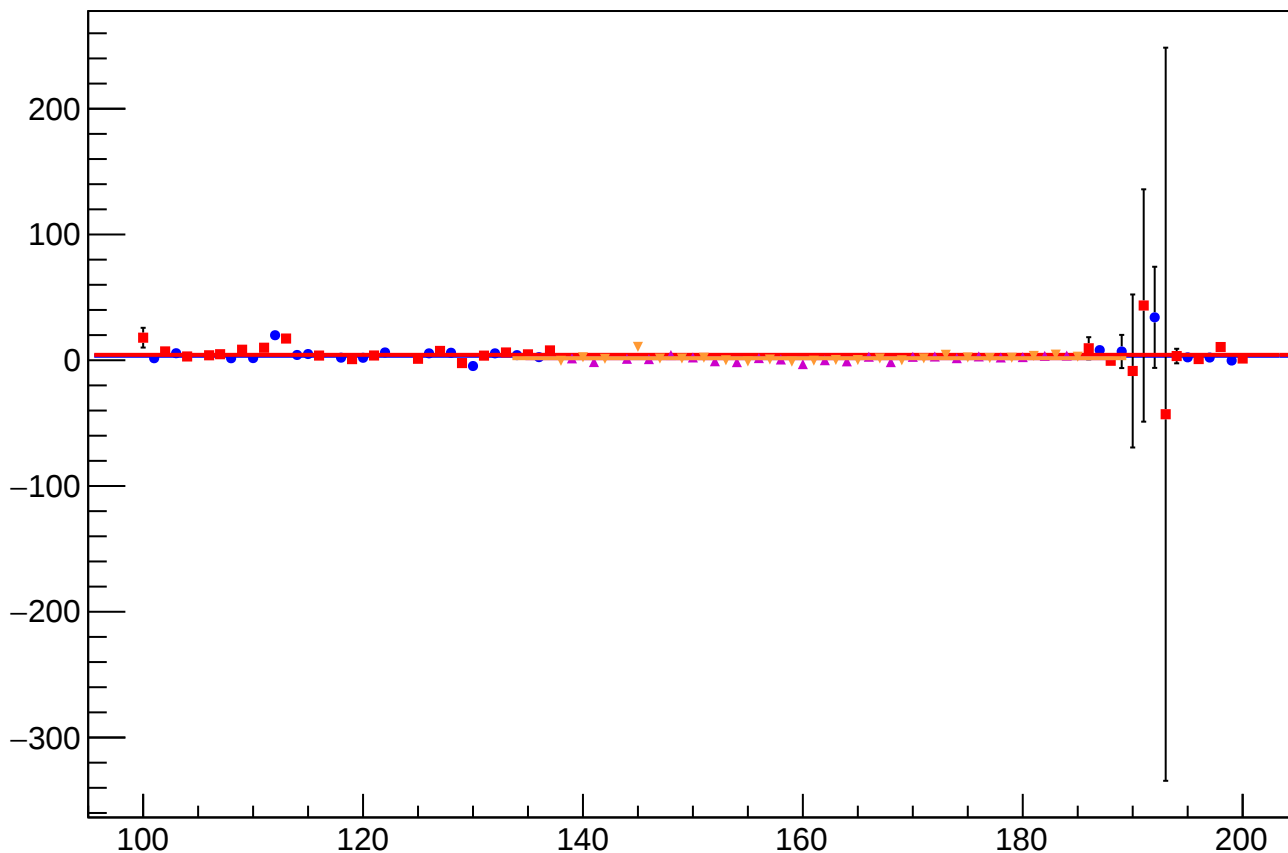
Right: -32.171 ± 0.758 $\chi^2/\text{NDF}: 31.2/14$

In: -35.670 ± 0.189 $\chi^2/\text{NDF}: 881.9/28$

Out: -35.993 ± 0.188 $\chi^2/\text{NDF}: 1142.5/32$

All: -35.832 ± 0.133 $\chi^2/\text{NDF}: 2025.8/61$

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.546 $\pm$ 0.218 χ^2 /NDF: 444.5/21

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.308 $\pm$ 0.222 χ^2 /NDF: 365.4/26

Left In: 1.641 $\pm$ 0.150 χ^2 /NDF:163.2/22

Left: 1.638 $\pm$ 0.105 χ^2 /NDF: 329.7/46

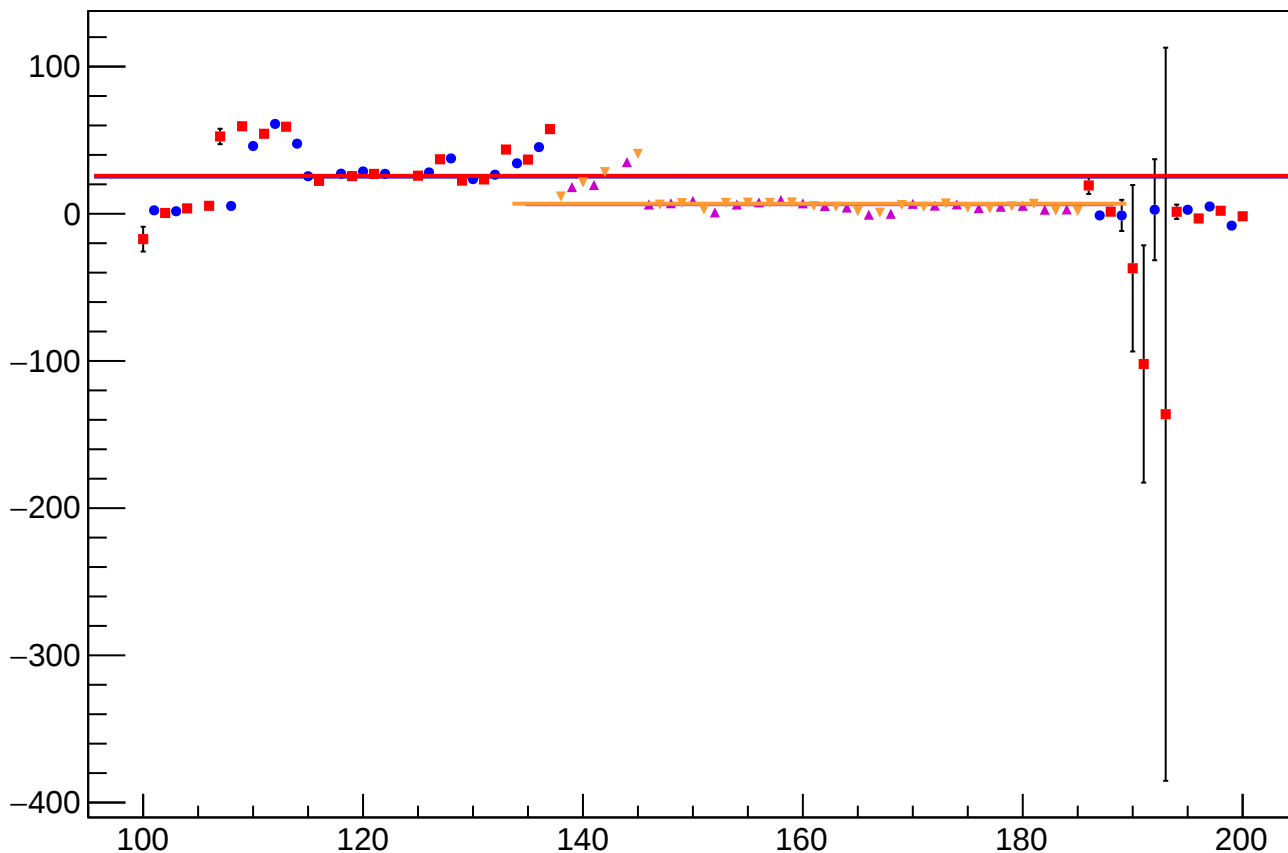
Right: 3.921 $\pm$ 0.156 χ^2 /NDF: 815.9/48

In: 2.249 $\pm$ 0.123 χ^2 /NDF:659.5/44

Out: 2.456 $\pm$ 0.123 χ^2 /NDF:632.5/50

All: 2.353 $\pm$ 0.087 χ^2 /NDF: 1293.5/95

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.287+/-0.389 χ^2 /NDF: 2206.2/21

Left Out: 6.866+/-0.191 χ^2 /NDF:1295.7/23

Right Out: 25.757+/-0.374 χ^2 /NDF: 2920.5/26

Left In: 6.537+/-0.190 χ^2 /NDF:1025.1/22

Left: 6.700+/-0.135 χ^2 /NDF: 2322.3/46

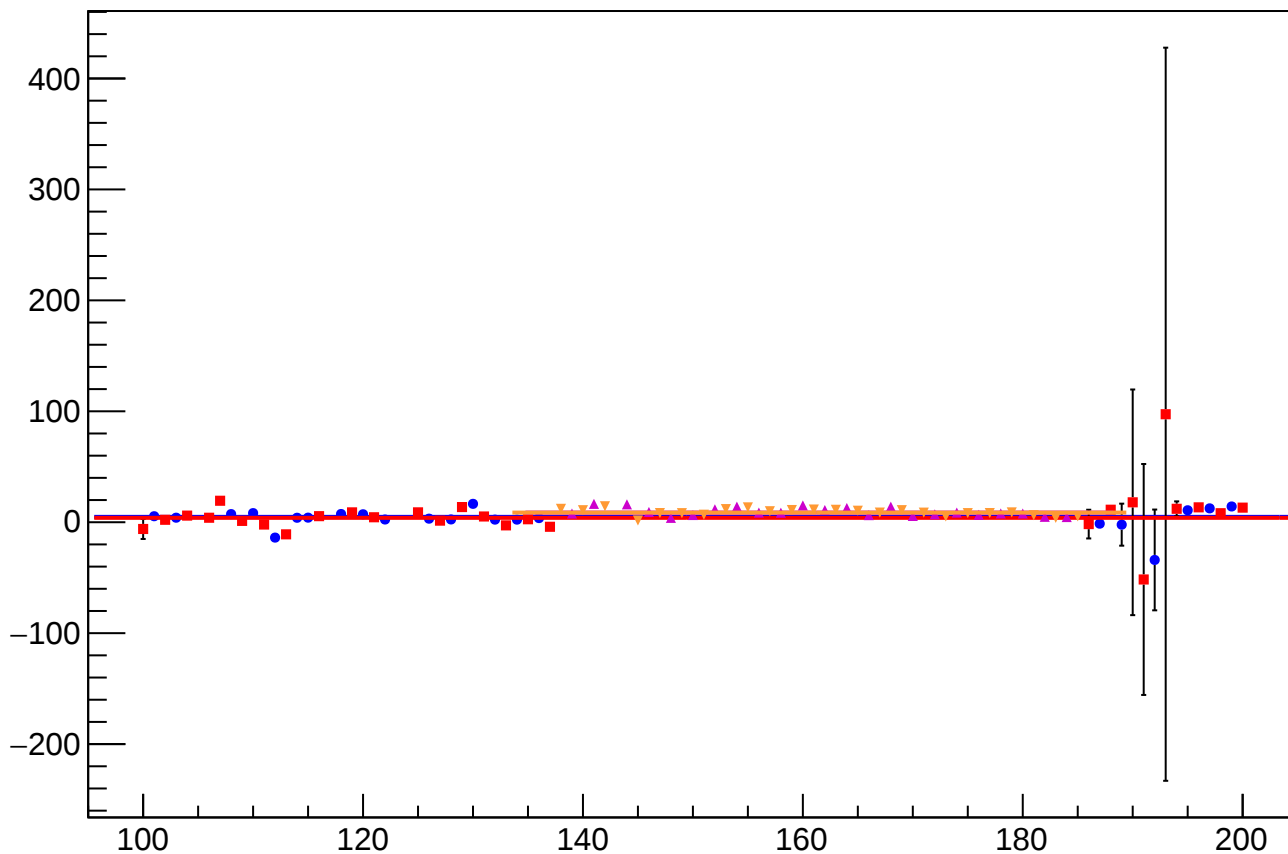
Right: 25.531+/-0.270 χ^2 /NDF: 5127.5/48

In: 10.157+/-0.171 χ^2 /NDF:5104.3/44

Out: 10.791+/-0.170 χ^2 /NDF:6240.7/50

All: 10.475+/-0.121 χ^2 /NDF: 11352.0/95

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.837 $\pm$ 0.252 χ^2 /NDF: 562.8/21

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.965 $\pm$ 0.256 χ^2 /NDF: 587.1/26

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.681 $\pm$ 0.120 χ^2 /NDF: 677.7/46

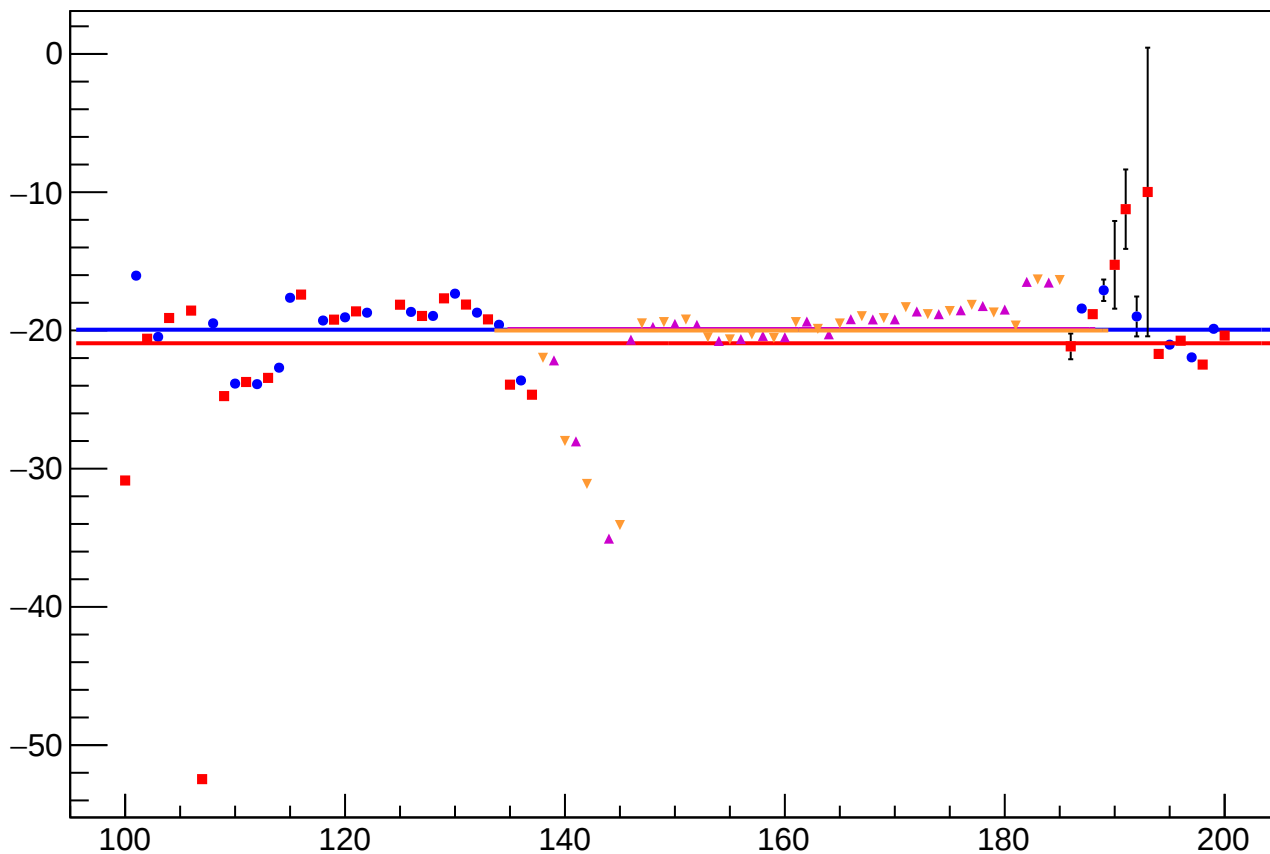
Right: 4.407 $\pm$ 0.180 χ^2 /NDF: 1155.8/48

In: 7.470 $\pm$ 0.141 χ^2 /NDF:1158.1/44

Out: 7.259 $\pm$ 0.141 χ^2 /NDF:1065.9/50

All: 7.364 $\pm$ 0.100 χ^2 /NDF: 2225.1/95

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.947 ± 0.015 χ^2/NDF : 26443.6/21

Left Out: -20.006 ± 0.008 χ^2/NDF : 171763.9/23

Right Out: -20.928 ± 0.015 χ^2/NDF : 94437.3/26

Left In: -19.898 ± 0.008 χ^2/NDF : 144191.9/22

Left: -19.951 ± 0.006 χ^2/NDF : 316049.4/46

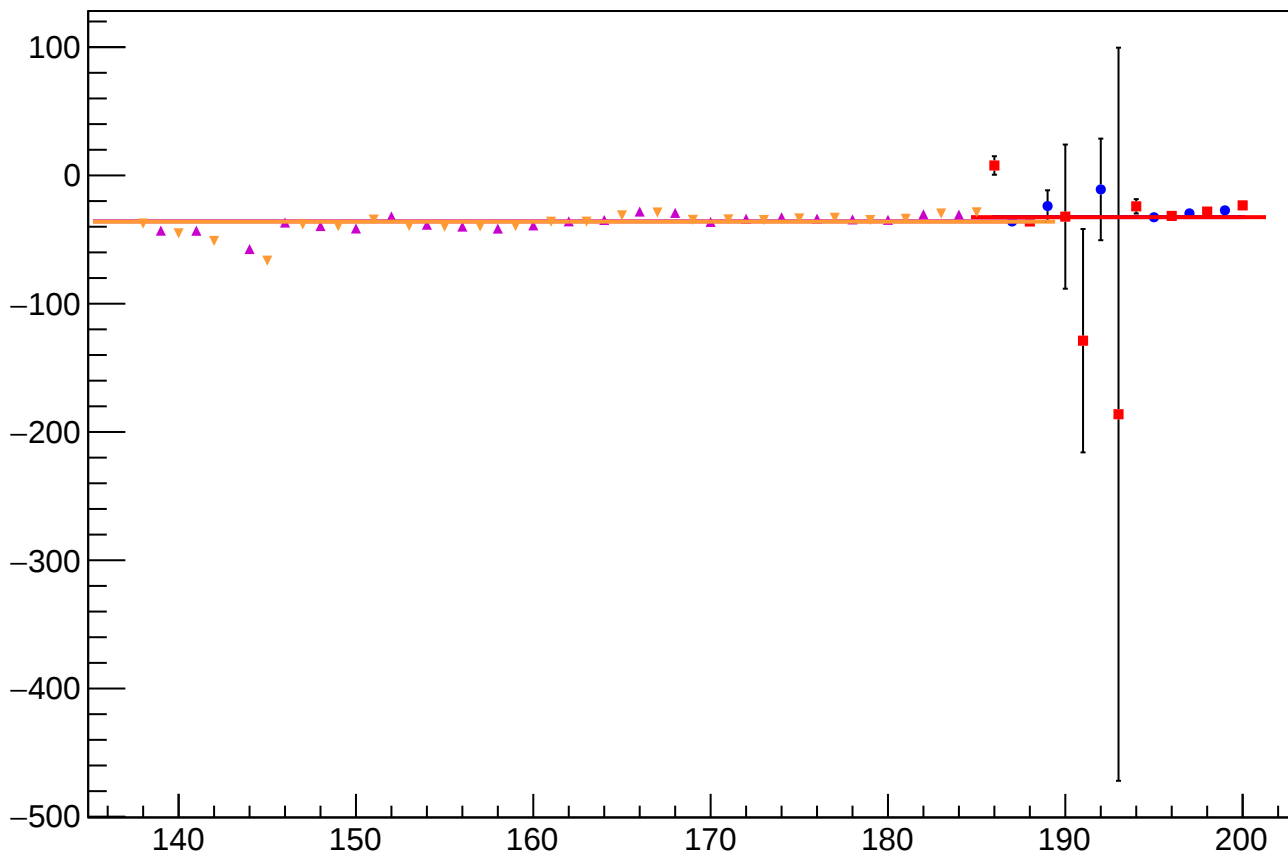
Right: -20.439 ± 0.011 χ^2/NDF : 122965.1/48

In: -19.908 ± 0.007 χ^2/NDF : 170643.8/44

Out: -20.202 ± 0.007 χ^2/NDF : 269109.0/50

All: -20.054 ± 0.005 χ^2/NDF : 440635.7/95

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.472 ± 1.232 $\chi^2/\text{NDF}: 8.0/5$

Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$

Right Out: -32.536 ± 0.966 $\chi^2/\text{NDF}: 52.9/8$

Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$

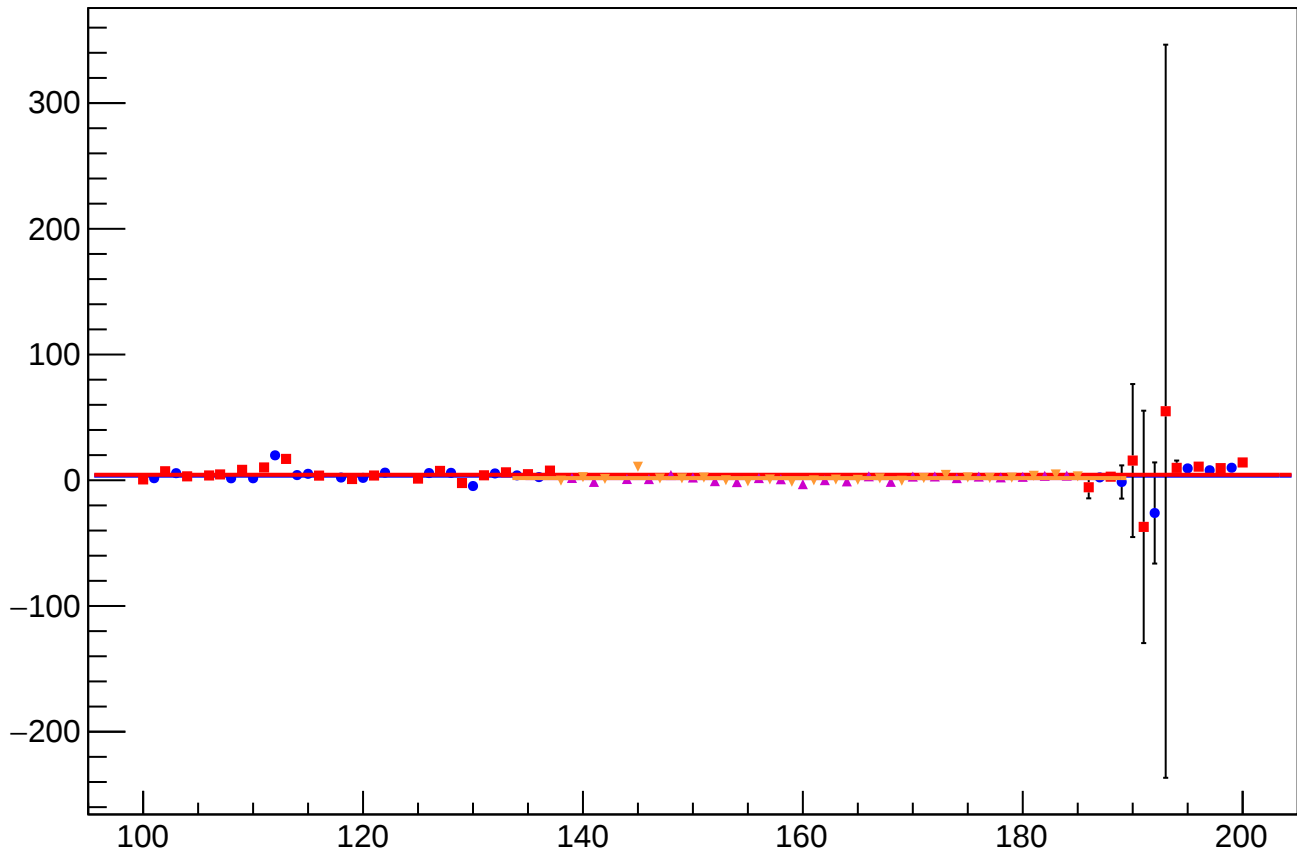
Right: -32.512 ± 0.760 $\chi^2/\text{NDF}: 60.9/14$

In: -35.689 ± 0.189 $\chi^2/\text{NDF}: 857.6/28$

Out: -35.898 ± 0.188 $\chi^2/\text{NDF}: 1186.8/32$

All: -35.794 ± 0.133 $\chi^2/\text{NDF}: 2045.0/61$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.631 $\pm$ 0.218 χ^2 /NDF: 447.4/21

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.382 $\pm$ 0.218 χ^2 /NDF: 370.0/26

Left In: 1.705 $\pm$ 0.149 χ^2 /NDF:163.0/22

Left: 1.714 $\pm$ 0.105 χ^2 /NDF: 331.1/46

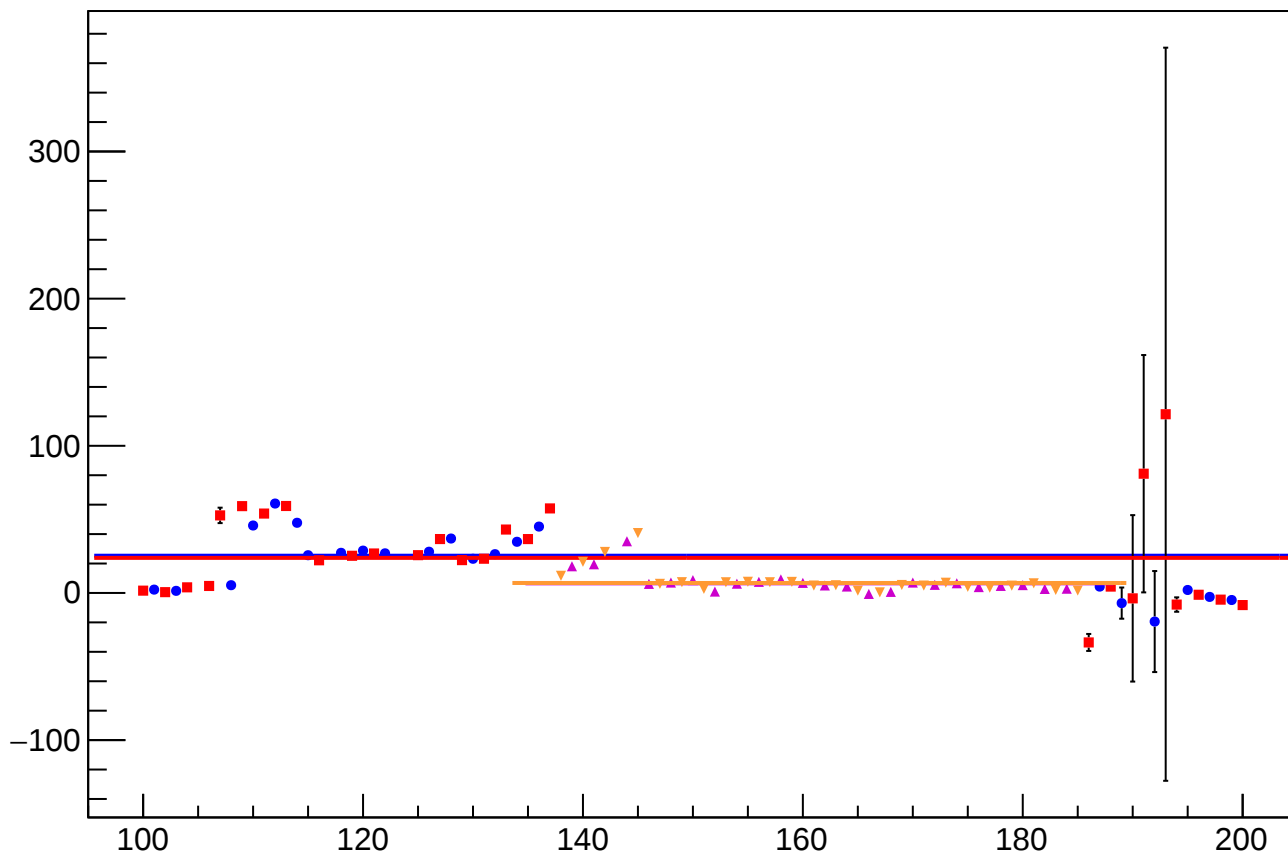
Right: 4.006 $\pm$ 0.154 χ^2 /NDF: 823.3/48

In: 2.319 $\pm$ 0.123 χ^2 /NDF:663.3/44

Out: 2.559 $\pm$ 0.122 χ^2 /NDF:639.9/50

All: 2.440 $\pm$ 0.087 χ^2 /NDF: 1305.2/95

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.303 $\pm$ 0.389 χ^2/NDF : 2141.3/21

Left Out: 6.779 $\pm$ 0.191 χ^2/NDF :1297.7/23

Right Out: 23.846 $\pm$ 0.360 χ^2/NDF : 3227.4/26

Left In: 6.532 $\pm$ 0.190 χ^2/NDF :1018.2/22

Left: 6.655 $\pm$ 0.135 χ^2/NDF : 2316.7/46

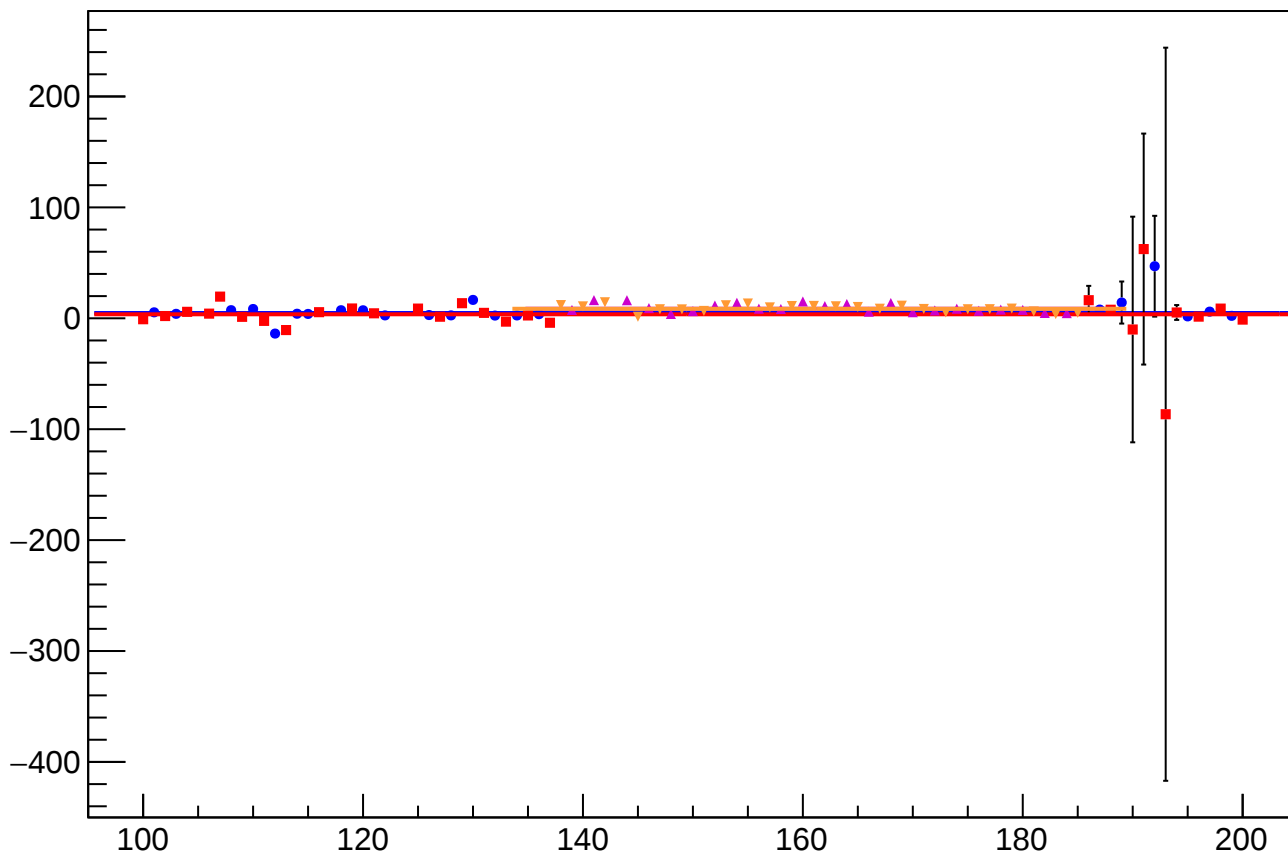
Right: 24.517 $\pm$ 0.264 χ^2/NDF : 5376.3/48

In: 10.154 $\pm$ 0.171 χ^2/NDF :5037.4/44

Out: 10.543 $\pm$ 0.169 χ^2/NDF :6280.7/50

All: 10.351 $\pm$ 0.120 χ^2/NDF : 11320.7/95

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.743 $\pm$ 0.252 χ^2 /NDF: 545.9/21

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF: 245.5/23

Right Out: 3.607 $\pm$ 0.252 χ^2 /NDF: 577.5/26

Left In: 8.585 $\pm$ 0.170 χ^2 /NDF: 441.8/22

Left: 8.585 $\pm$ 0.120 χ^2 /NDF: 687.3/46

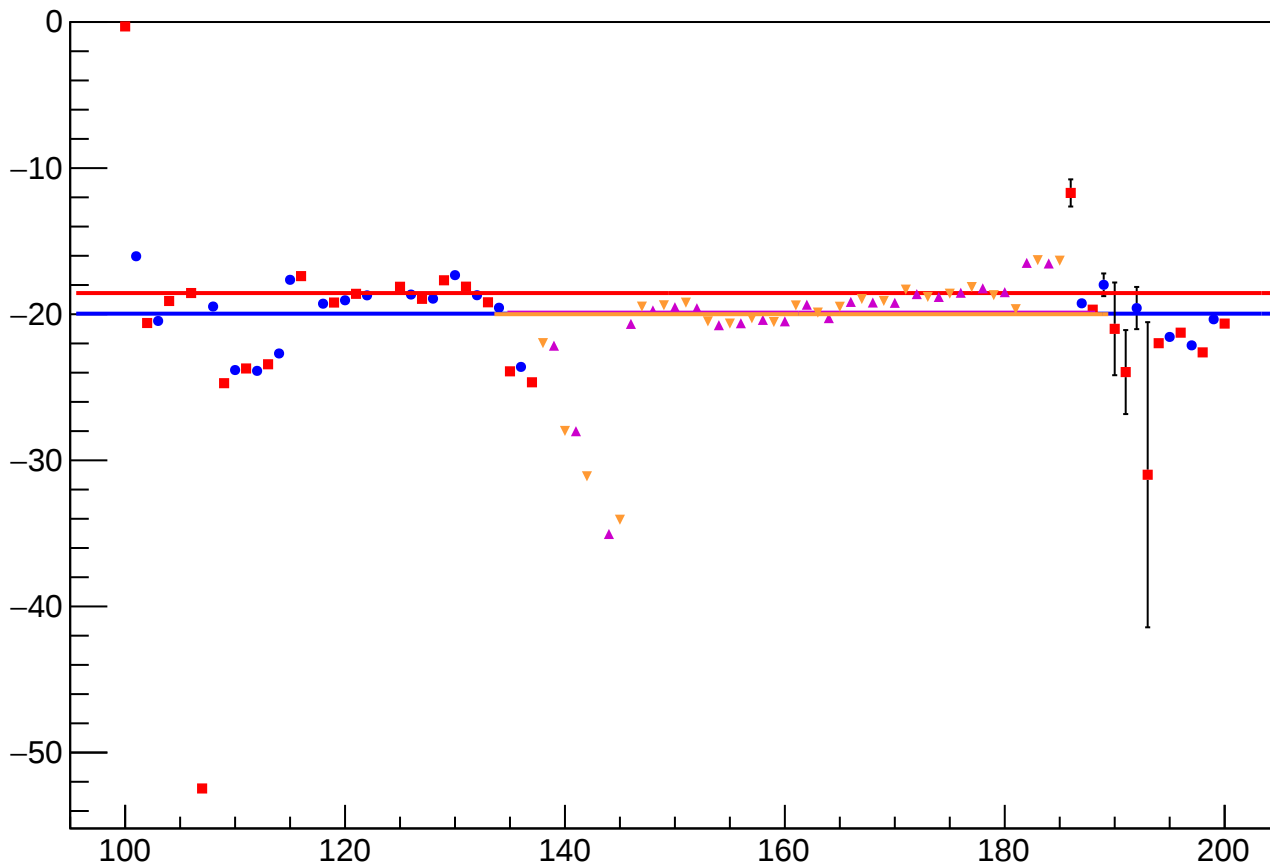
Right: 4.174 $\pm$ 0.178 χ^2 /NDF: 1133.6/48

In: 7.383 $\pm$ 0.141 χ^2 /NDF: 1147.3/44

Out: 7.040 $\pm$ 0.140 χ^2 /NDF: 1092.8/50

All: 7.211 $\pm$ 0.099 χ^2 /NDF: 2243.1/95

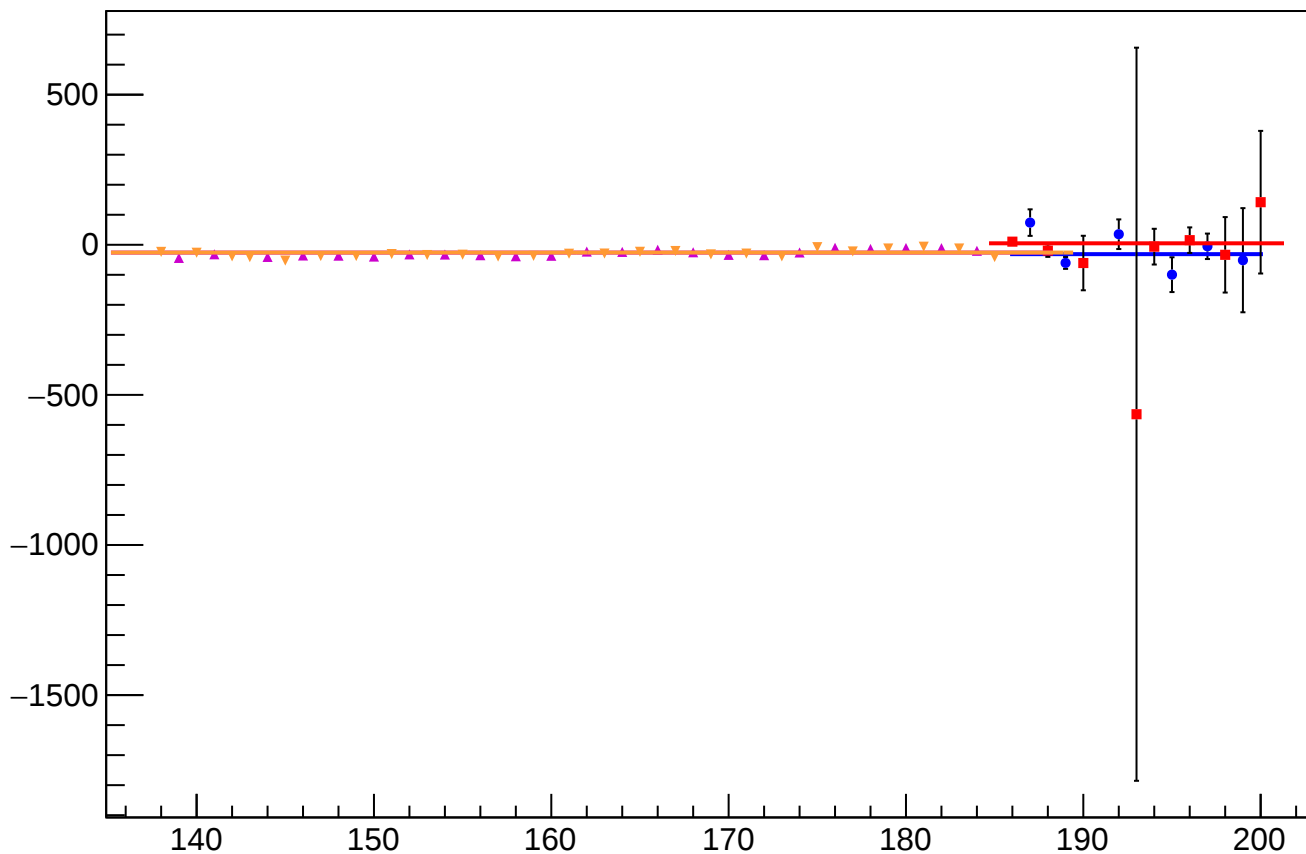
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.961 ± 0.015 $\chi^2/\text{NDF}: 26576.2/21$
 Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$
 Right Out: -18.552 ± 0.014 $\chi^2/\text{NDF}: 303646.0/26$
 Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.944 ± 0.006 $\chi^2/\text{NDF}: 316093.4/46$
 Right: -19.214 ± 0.010 $\chi^2/\text{NDF}: 334784.6/48$
 In: -19.905 ± 0.007 $\chi^2/\text{NDF}: 170648.6/44$
 Out: -19.661 ± 0.007 $\chi^2/\text{NDF}: 483431.2/50$
 All: -19.782 ± 0.005 $\chi^2/\text{NDF}: 654701.8/95$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected

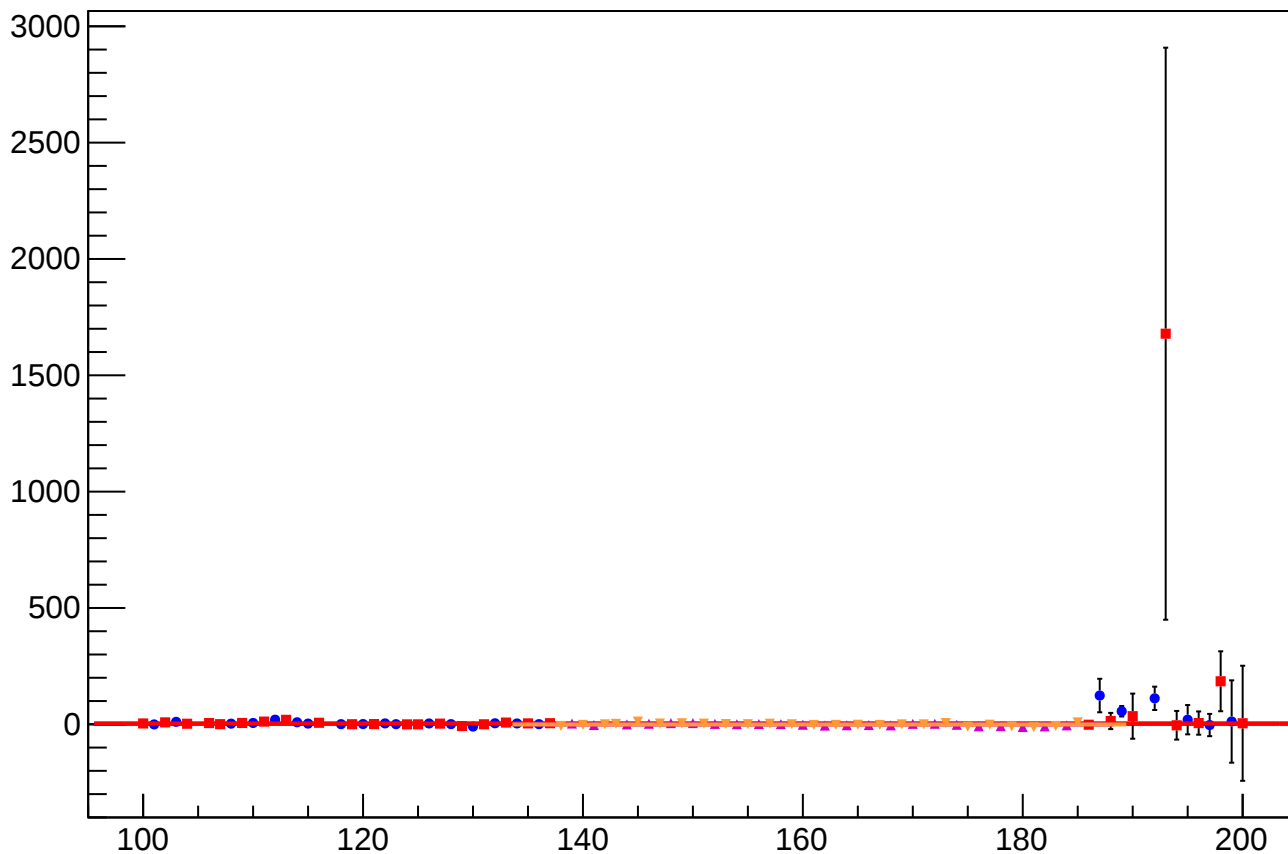


Right In: -31.202 ± 15.140 χ^2/NDF : 11.4/5
 Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24
 Right Out: 4.902 ± 8.292 χ^2/NDF : 3.0/7
 Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47
 Right: -3.429 ± 7.273 χ^2/NDF : 18.8/13
 In: -26.053 ± 0.195 χ^2/NDF : 3291.0/28
 Out: -25.868 ± 0.192 χ^2/NDF : 4174.7/32

All: -25.959 ± 0.137 χ^2/NDF : 7466.2/61

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.472 ± 0.315 χ^2/NDF : 307.7/22

Left Out: -0.654 ± 0.146 χ^2/NDF : 1320.8/24

Right Out: 3.712 ± 0.327 χ^2/NDF : 273.4/26

Left In: -0.863 ± 0.150 χ^2/NDF : 1066.5/22

Left: -0.756 ± 0.105 χ^2/NDF : 2388.3/47

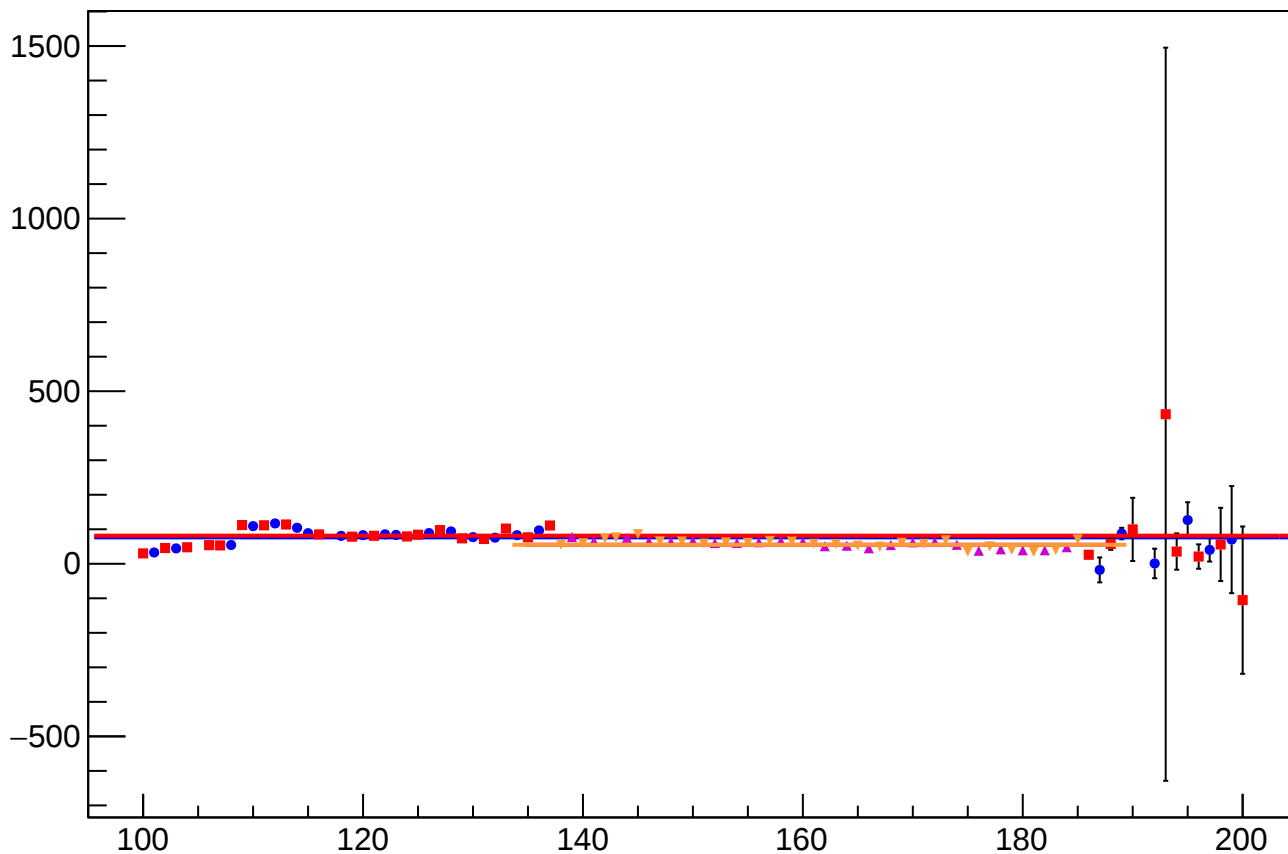
Right: 3.069 ± 0.227 χ^2/NDF : 588.5/49

In: -0.243 ± 0.136 χ^2/NDF : 1465.6/45

Out: 0.075 ± 0.133 χ^2/NDF : 1743.1/51

All: -0.082 ± 0.095 χ^2/NDF : 3211.4/97

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.526 $\pm$ 0.576 χ^2 /NDF: 2265.2/22

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.493 $\pm$ 0.591 χ^2 /NDF: 1631.3/26

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

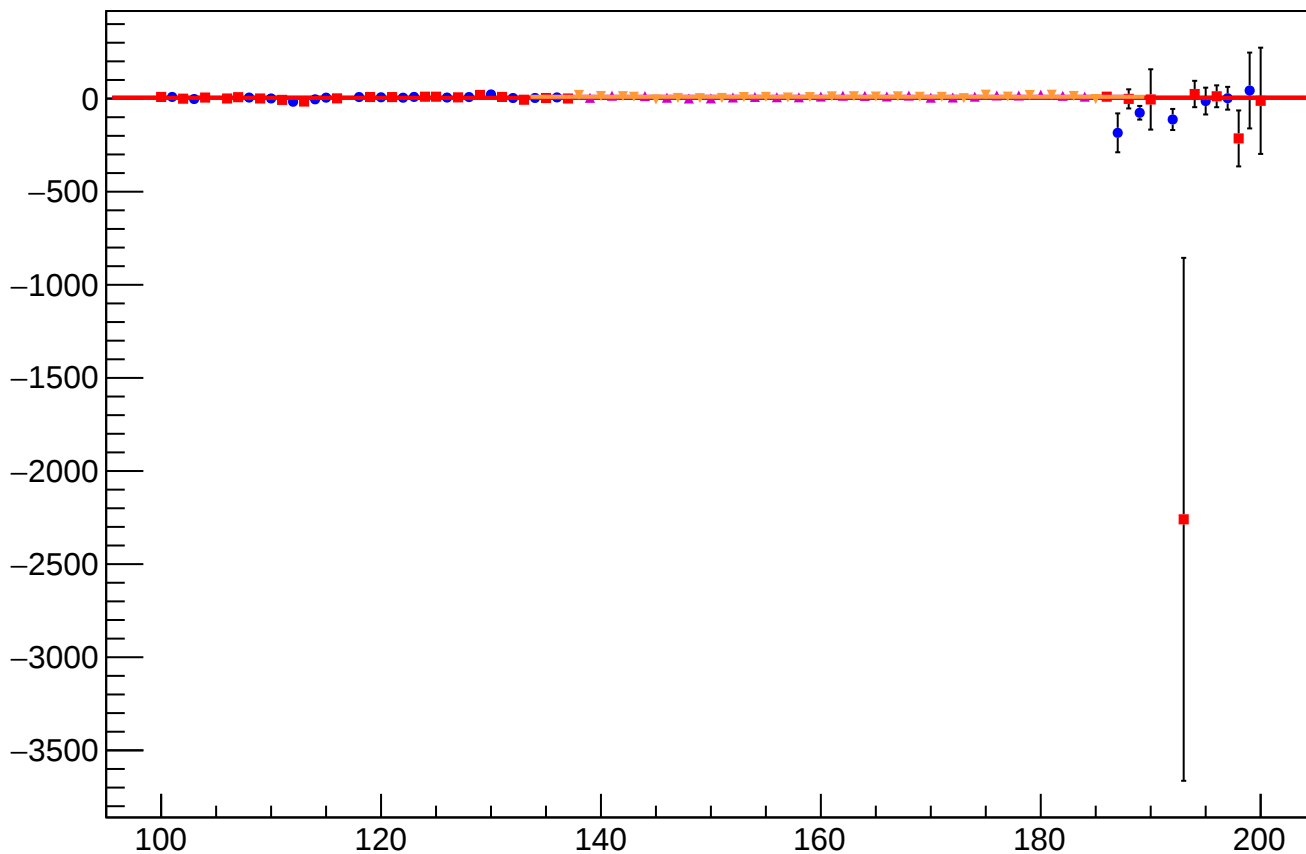
Right: 78.949 $\pm$ 0.412 χ^2 /NDF: 3932.7/49

In: 57.243 $\pm$ 0.183 χ^2 /NDF: 7213.6/45

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8018.2/51

All: 57.427 $\pm$ 0.129 χ^2 /NDF: 15233.8/97

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.413 $\pm$ 0.361 χ^2 /NDF: 398.3/22

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.584 $\pm$ 0.375 χ^2 /NDF: 426.6/26

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

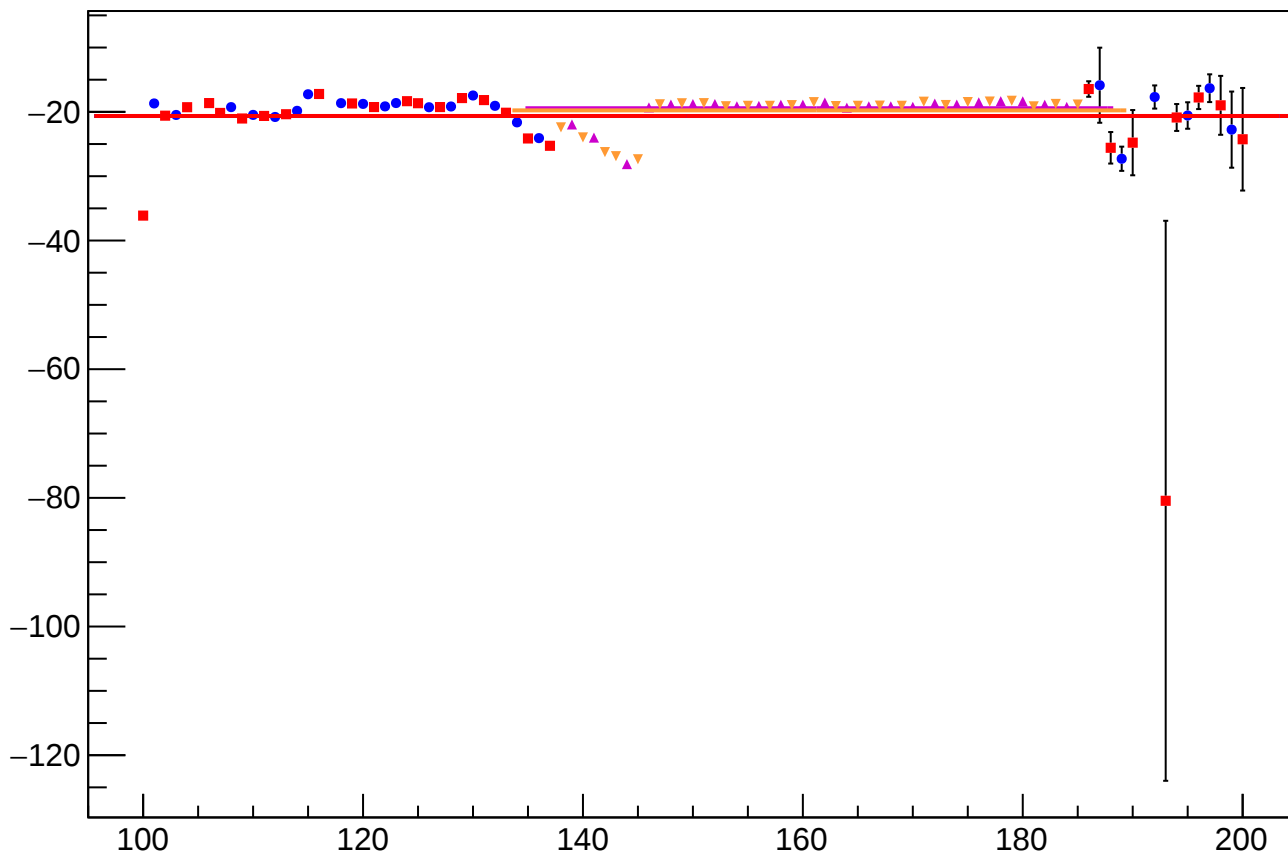
Right: 4.535 $\pm$ 0.260 χ^2 /NDF: 837.2/49

In: 8.993 $\pm$ 0.155 χ^2 /NDF:1677.8/45

Out: 8.713 $\pm$ 0.153 χ^2 /NDF:2100.7/51

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3780.1/97

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12444.1/22

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.639 $\pm$ 0.019 χ^2 /NDF: 13807.4/26

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

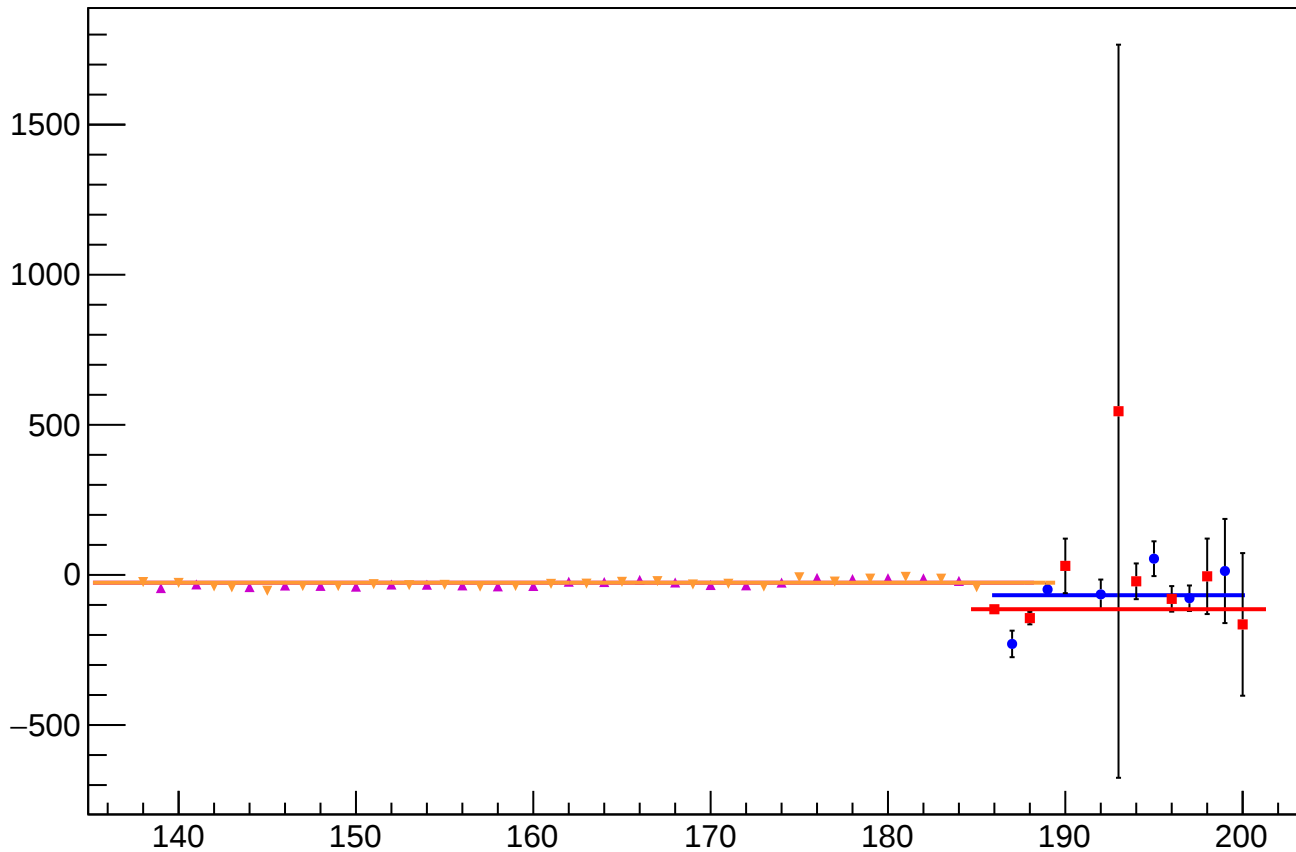
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26251.6/49

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68952.6/45

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107148.0/51

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176829.3/97

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -67.606 ± 15.152 χ^2/NDF : 19.1/5

Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24

Right Out: -114.235 ± 8.298 χ^2/NDF : 8.7/7

Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47

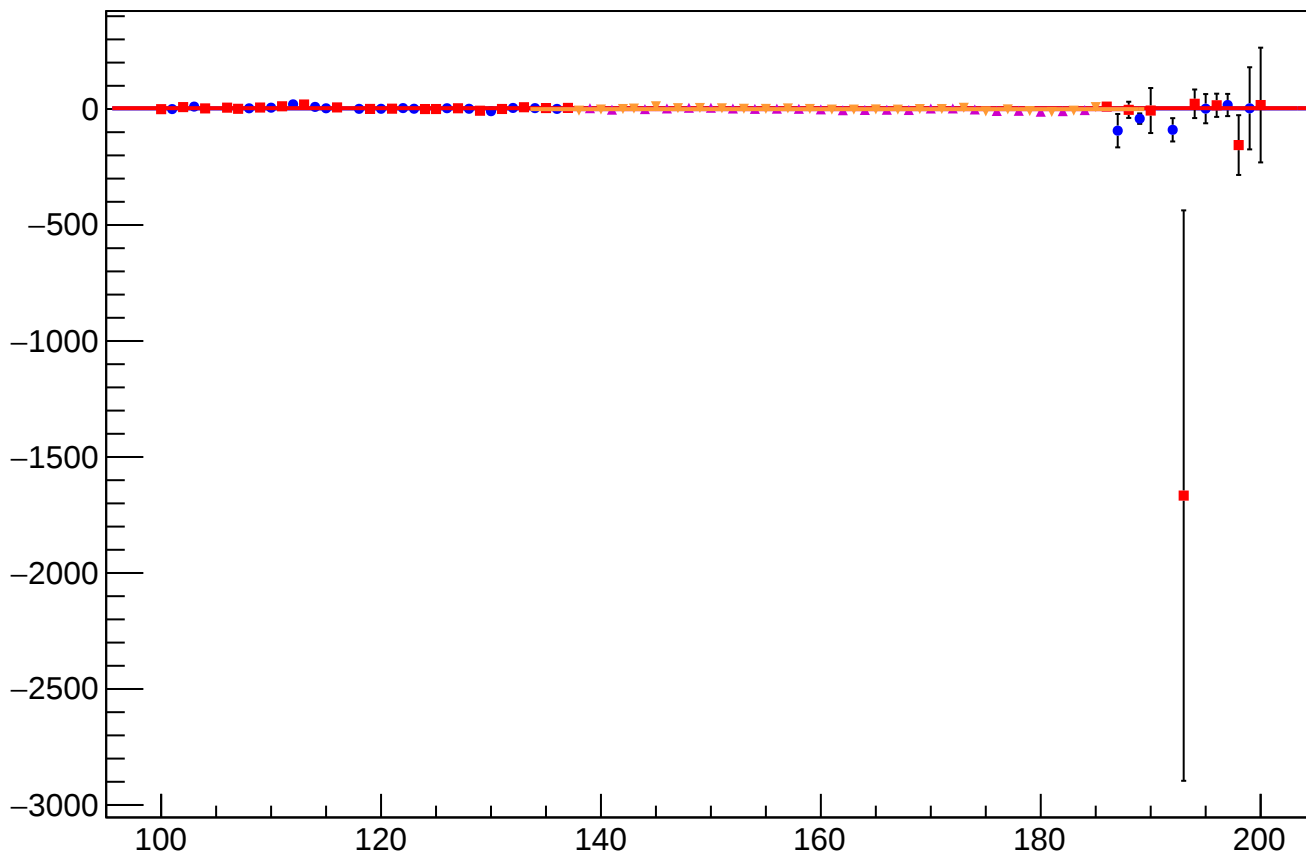
Right: -103.477 ± 7.278 χ^2/NDF : 35.1/13

In: -26.053 ± 0.195 χ^2/NDF : 3273.4/28

Out: -25.946 ± 0.192 χ^2/NDF : 4249.5/32

All: -25.999 ± 0.137 χ^2/NDF : 7523.1/61

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.442 ± 0.315 χ^2/NDF : 301.4/22

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.596 ± 0.318 χ^2/NDF : 284.0/26

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

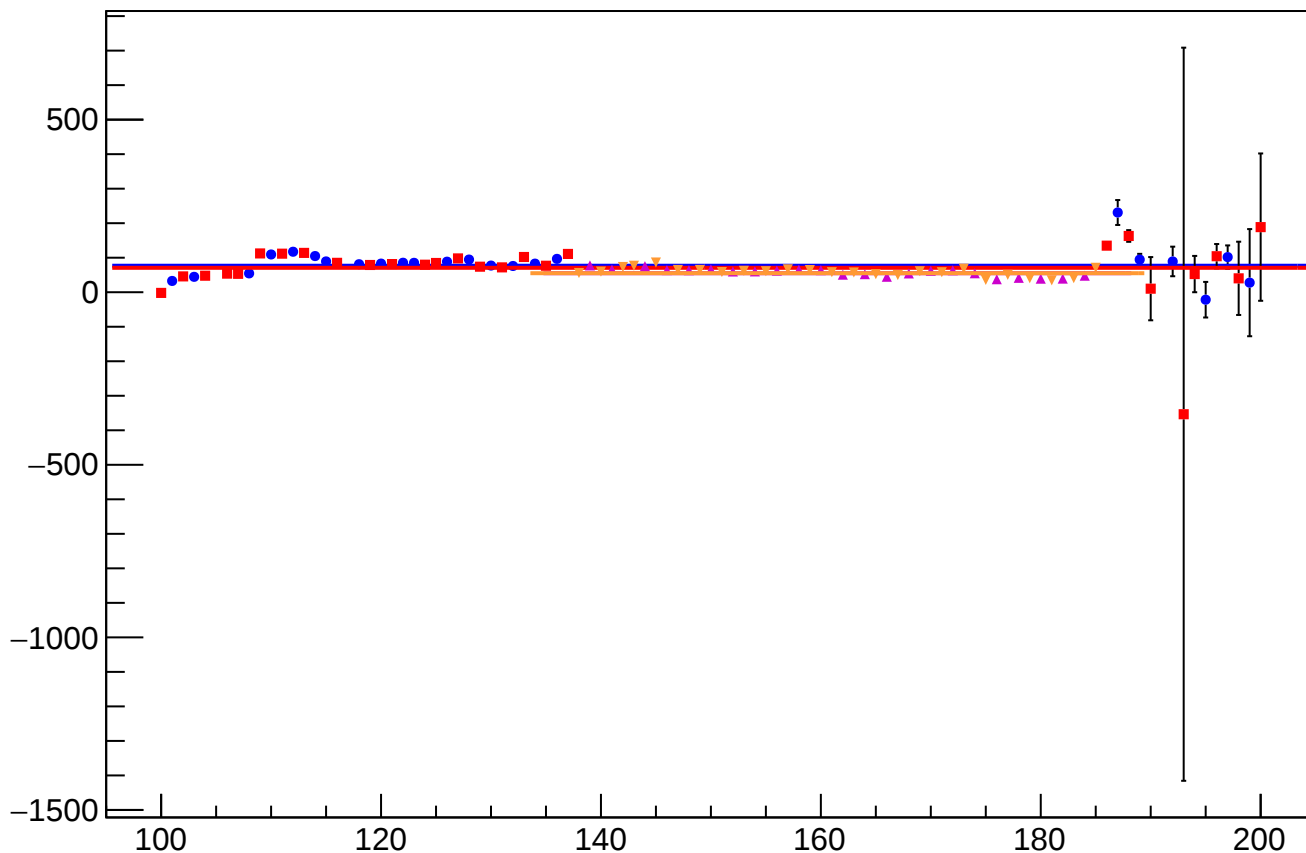
Right: 3.013 ± 0.224 χ^2/NDF : 592.0/49

In: -0.193 ± 0.136 χ^2/NDF : 1493.6/45

Out: 0.136 ± 0.133 χ^2/NDF : 1738.1/51

All: -0.025 ± 0.095 χ^2/NDF : 3234.8/97

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.732 $\pm$ 0.577 χ^2 /NDF: 2288.6/22

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.755 $\pm$ 0.549 χ^2 /NDF: 4491.2/26

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

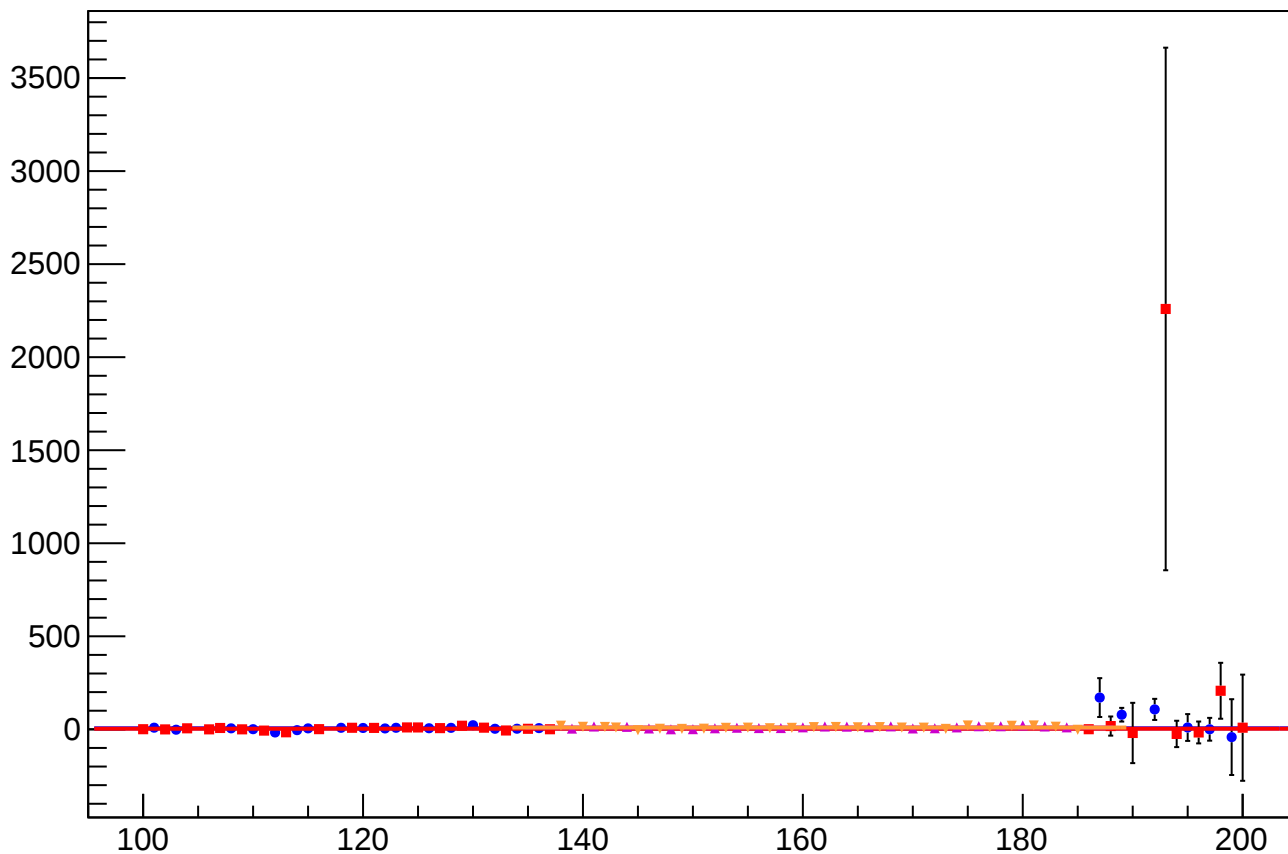
Right: 73.595 $\pm$ 0.397 χ^2 /NDF: 6836.1/49

In: 57.286 $\pm$ 0.184 χ^2 /NDF: 7218.6/45

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9775.9/51

All: 57.045 $\pm$ 0.129 χ^2 /NDF: 16998.0/97

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.441 $\pm$ 0.361 χ^2 /NDF: 393.9/22

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.279 $\pm$ 0.365 χ^2 /NDF: 429.9/26

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

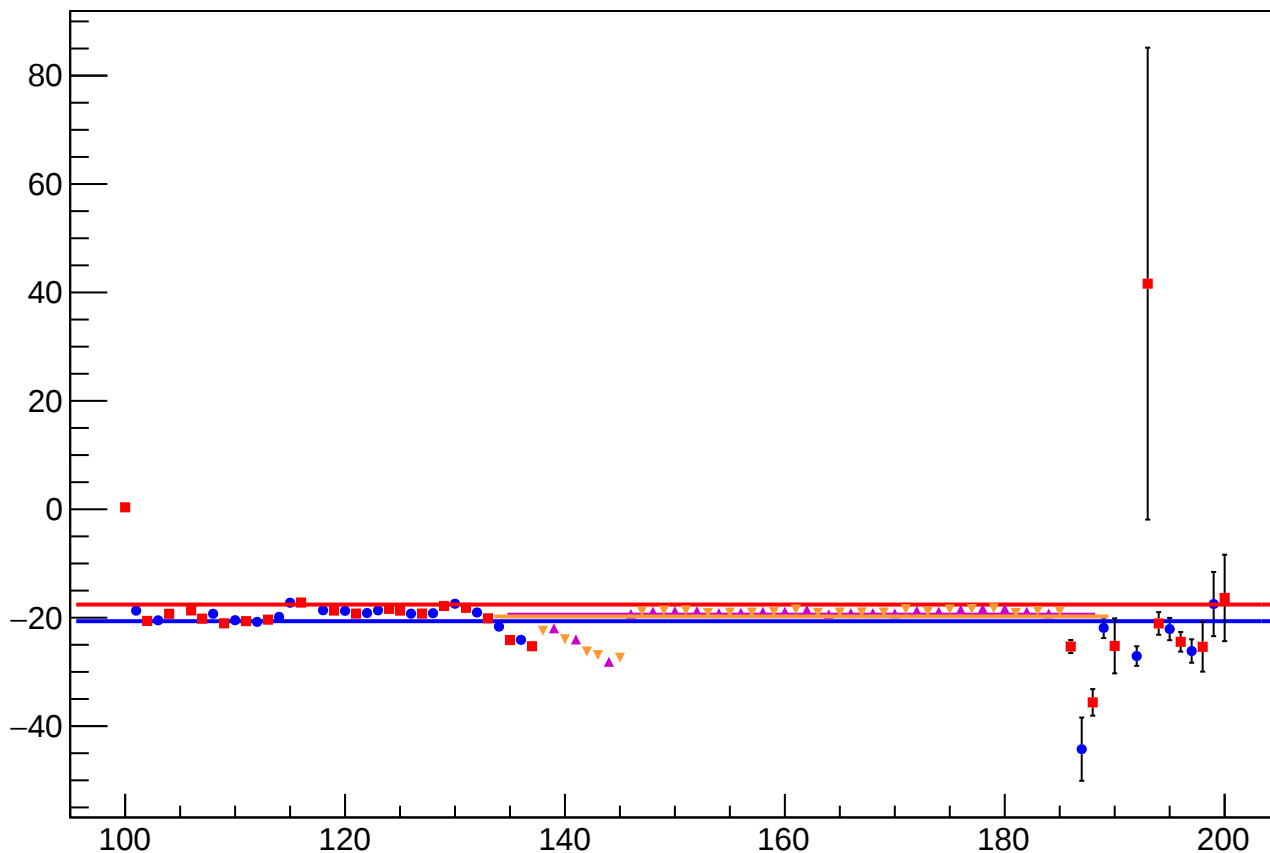
Right: 4.373 $\pm$ 0.257 χ^2 /NDF: 841.5/49

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1700.6/45

Out: 8.561 $\pm$ 0.153 χ^2 /NDF:2124.1/51

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3827.8/97

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 $\pm$ 0.019 χ^2 /NDF: 12499.5/22

Left Out: -19.775 $\pm$ 0.008 χ^2 /NDF: 91510.1/24

Right Out: -17.575 $\pm$ 0.018 χ^2 /NDF: 178437.7/26

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

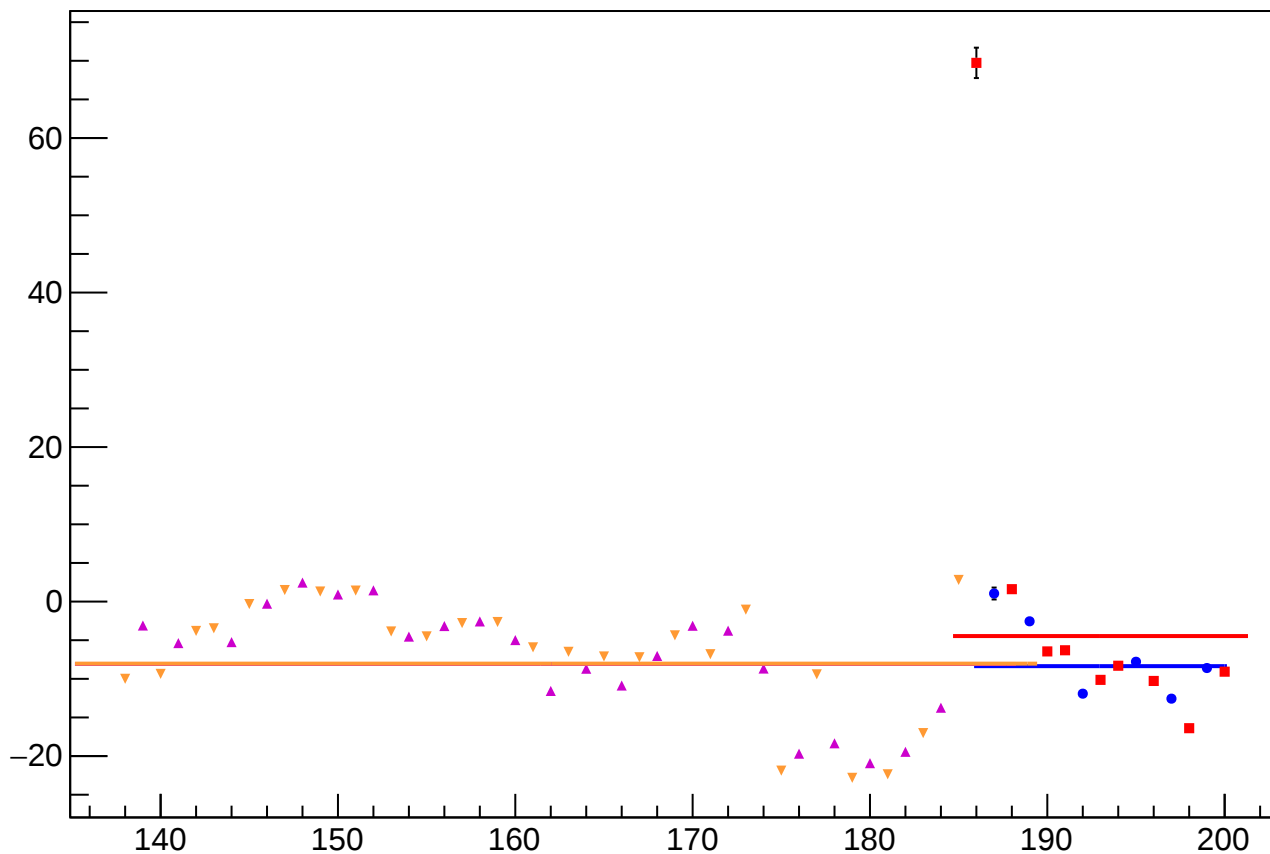
Right: -19.003 $\pm$ 0.013 χ^2 /NDF: 204410.7/49

In: -19.618 $\pm$ 0.007 χ^2 /NDF: 68921.9/45

Out: -19.422 $\pm$ 0.007 χ^2 /NDF: 282427.8/51

All: -19.518 $\pm$ 0.005 χ^2 /NDF: 351713.0/97

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.358 ± 0.171 $\chi^2/\text{NDF}: 583.6/5$
 Left Out: -8.034 ± 0.070 $\chi^2/\text{NDF}: 12568.0/24$
 Right Out: -4.464 ± 0.121 $\chi^2/\text{NDF}: 3827.3/8$
 Left In: -8.078 ± 0.072 $\chi^2/\text{NDF}: 10541.6/22$

Left: -8.055 ± 0.050 $\chi^2/\text{NDF}: 23109.8/47$

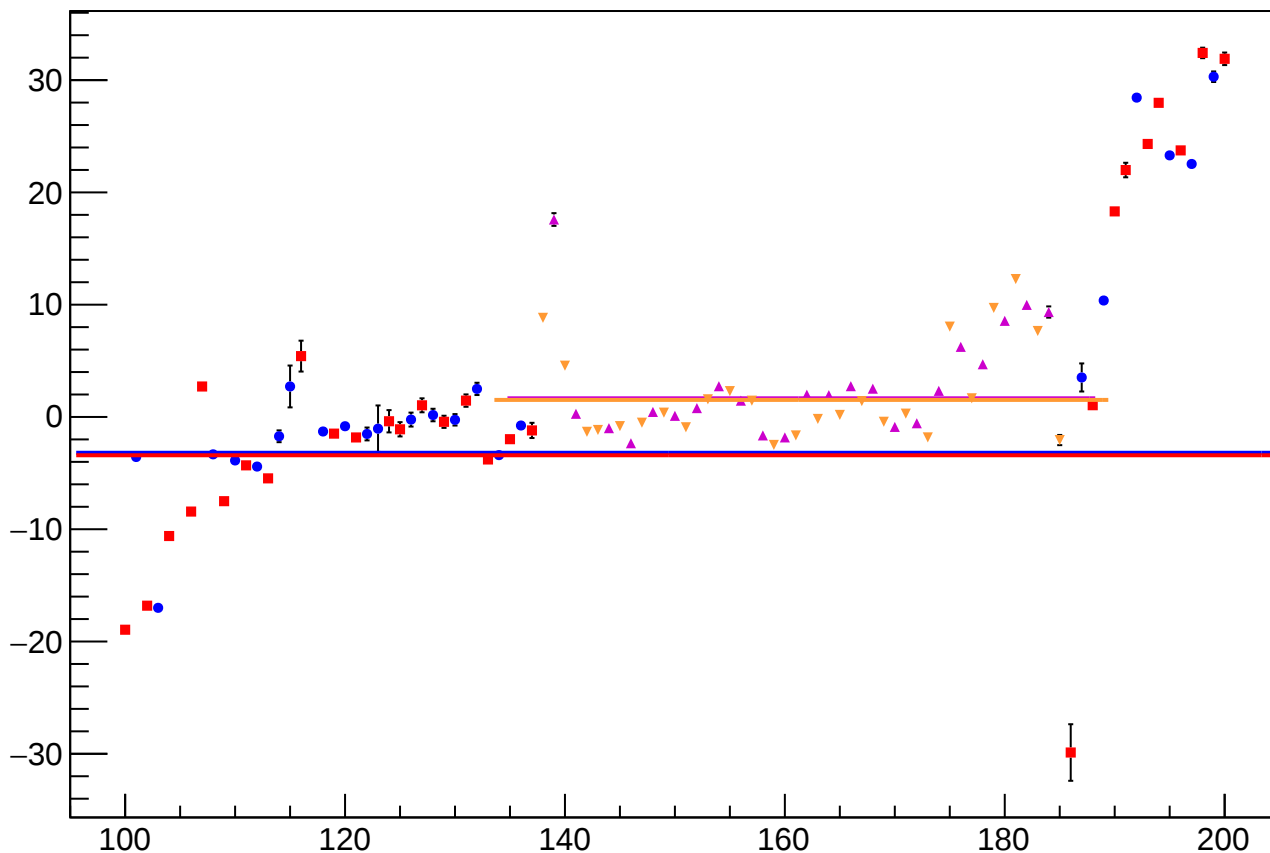
Right: -5.765 ± 0.099 $\chi^2/\text{NDF}: 4754.4/14$

In: -8.120 ± 0.066 $\chi^2/\text{NDF}: 11127.4/28$

Out: -7.138 ± 0.061 $\chi^2/\text{NDF}: 17042.5/33$

All: -7.587 ± 0.045 $\chi^2/\text{NDF}: 28288.9/62$

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.190 ± 0.053 χ^2/NDF : 31571.5/22

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -3.412 ± 0.055 χ^2/NDF : 45871.2/27

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

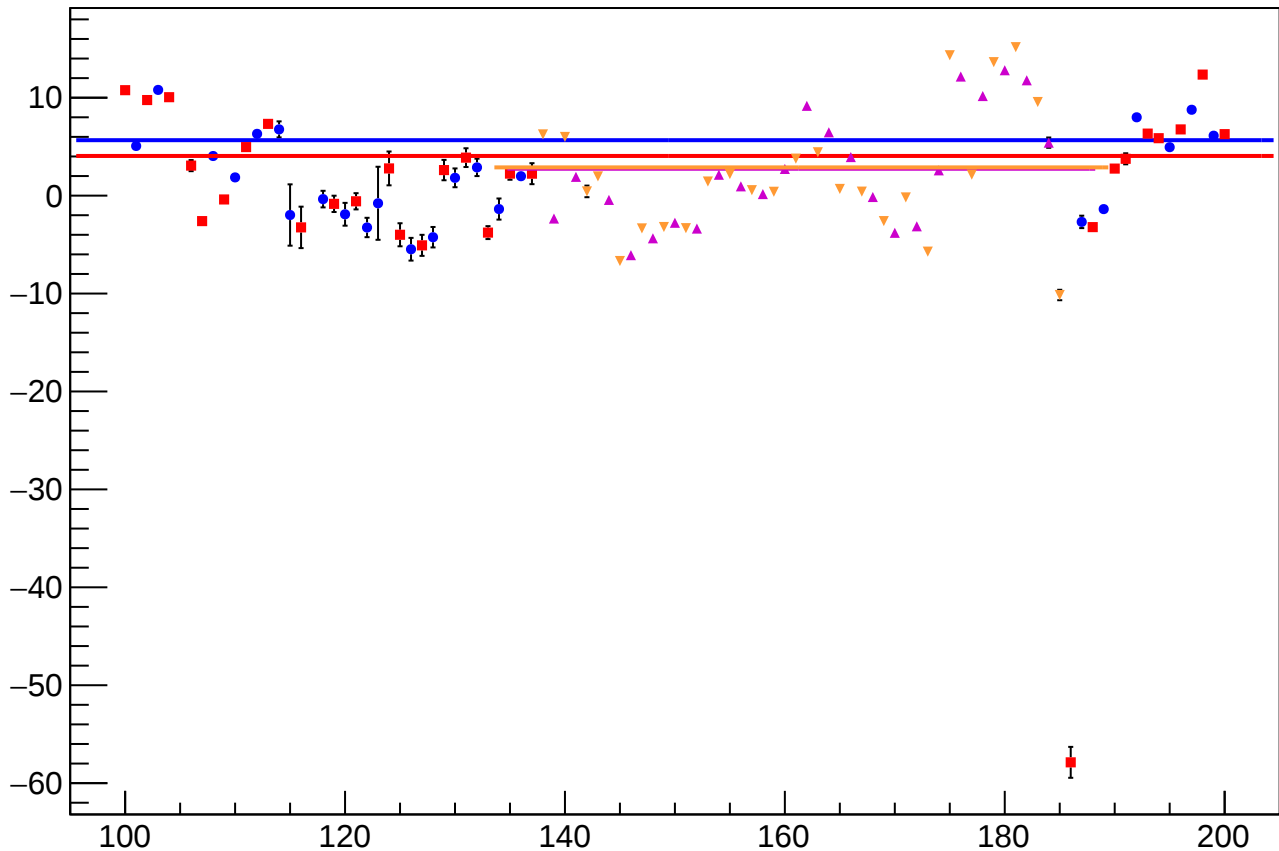
Right: -3.296 ± 0.038 χ^2/NDF : 77451.2/50

In: -0.938 ± 0.039 χ^2/NDF : 39548.3/45

Out: -0.932 ± 0.039 χ^2/NDF : 54806.4/52

All: -0.935 ± 0.027 χ^2/NDF : 94354.7/98

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.662 ± 0.077 $\chi^2/\text{NDF}: 2148.2/22$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 4.052 ± 0.069 $\chi^2/\text{NDF}: 7622.8/27$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

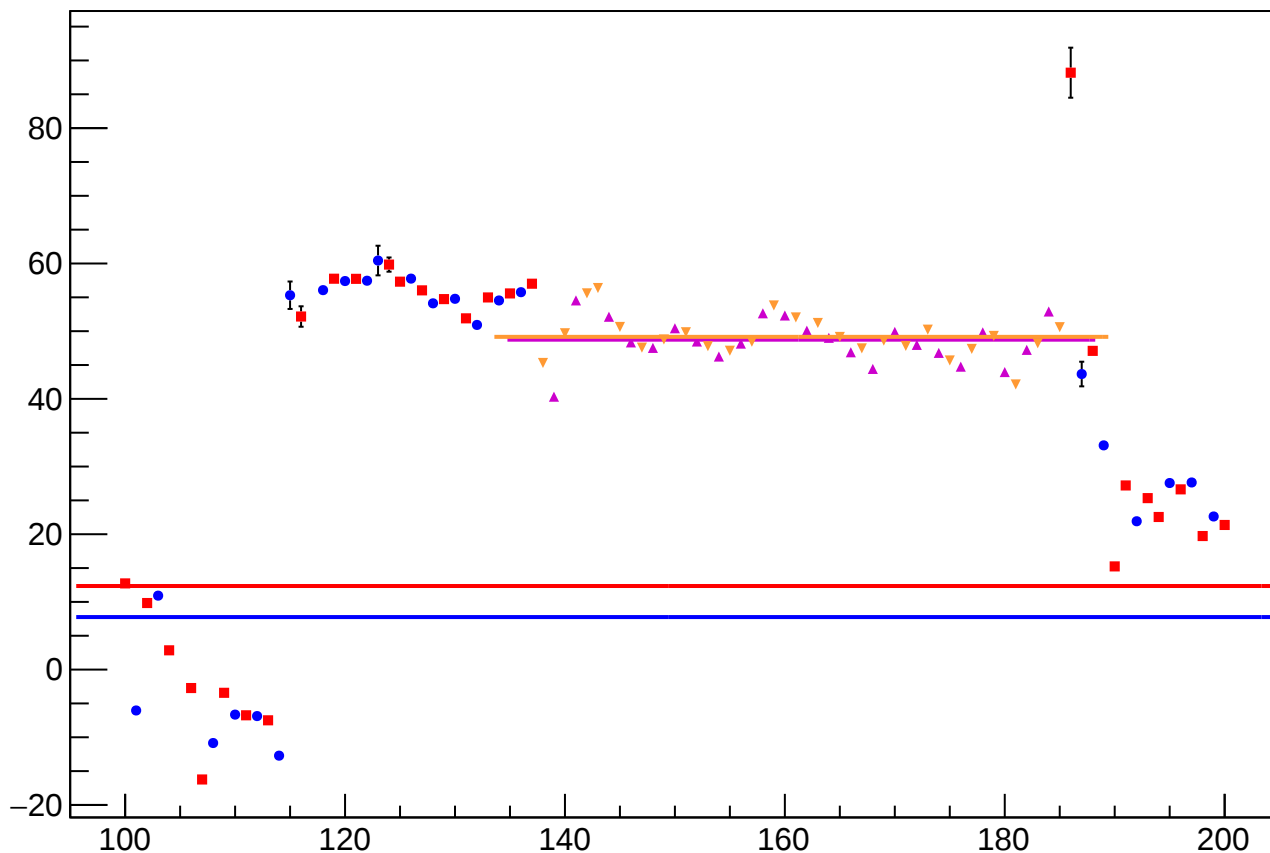
Right: 4.776 ± 0.052 $\chi^2/\text{NDF}: 10012.5/50$

In: 4.097 ± 0.052 $\chi^2/\text{NDF}: 10103.8/45$

Out: 3.475 ± 0.049 $\chi^2/\text{NDF}: 16655.6/52$

All: 3.768 ± 0.036 $\chi^2/\text{NDF}: 26834.3/98$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.761 ± 0.062 $\chi^2/\text{NDF}: 128297.1/22$

Left Out: 49.163 ± 0.062 $\chi^2/\text{NDF}: 2259.9/24$

Right Out: 12.348 ± 0.065 $\chi^2/\text{NDF}: 133687.7/27$

Left In: 48.744 ± 0.064 $\chi^2/\text{NDF}: 2097.7/22$

Left: 48.960 ± 0.044 $\chi^2/\text{NDF}: 4380.0/47$

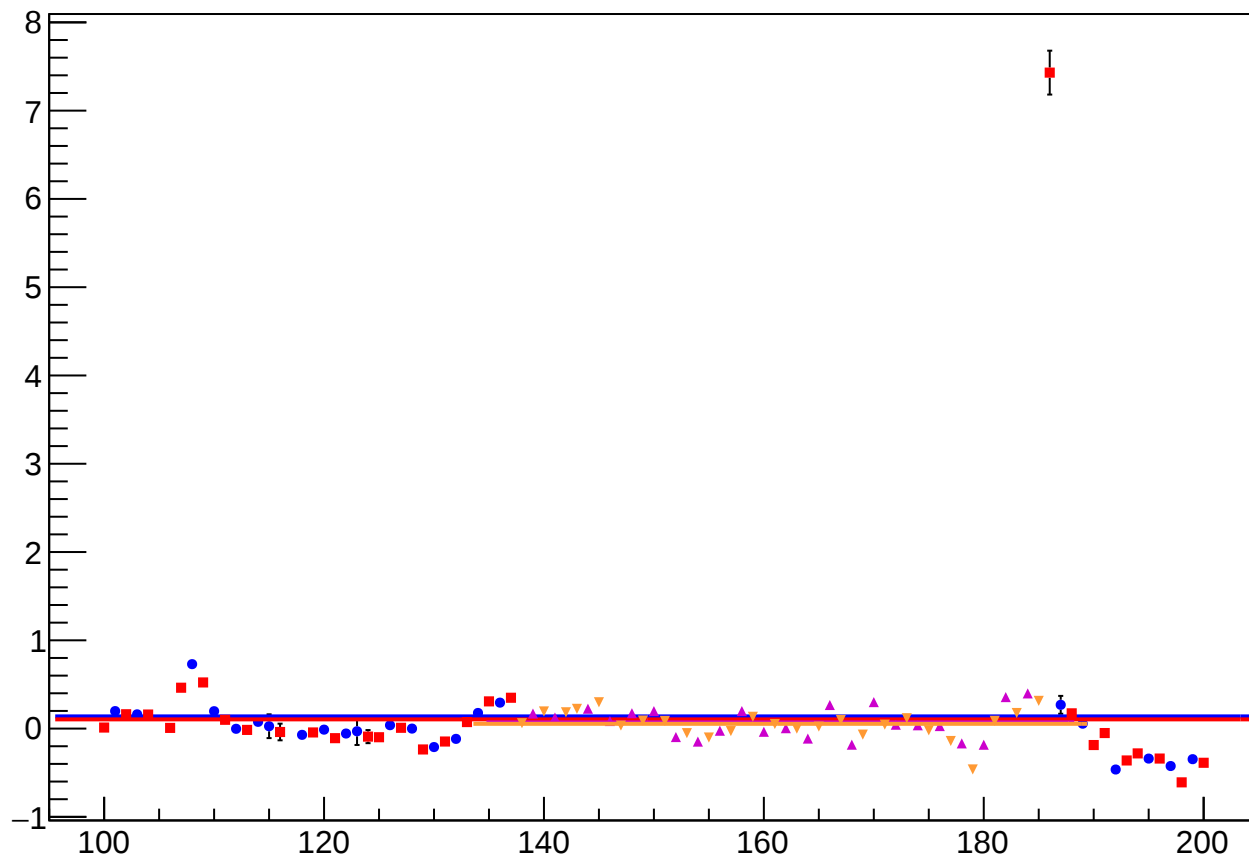
Right: 9.951 ± 0.045 $\chi^2/\text{NDF}: 264573.4/50$

In: 27.778 ± 0.045 $\chi^2/\text{NDF}: 341712.3/45$

Out: 31.754 ± 0.045 $\chi^2/\text{NDF}: 304085.7/52$

All: 29.754 ± 0.032 $\chi^2/\text{NDF}: 649754.4/98$

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.138 $\pm$ 0.003 χ^2/NDF : 10067.3/22

Left Out: 0.054 $\pm$ 0.003 χ^2/NDF : 2379.8/24

Right Out: 0.104 $\pm$ 0.002 χ^2/NDF : 10211.8/27

Left In: 0.070 $\pm$ 0.003 χ^2/NDF : 3233.8/22

Left: 0.062 $\pm$ 0.002 χ^2/NDF : 5630.0/47

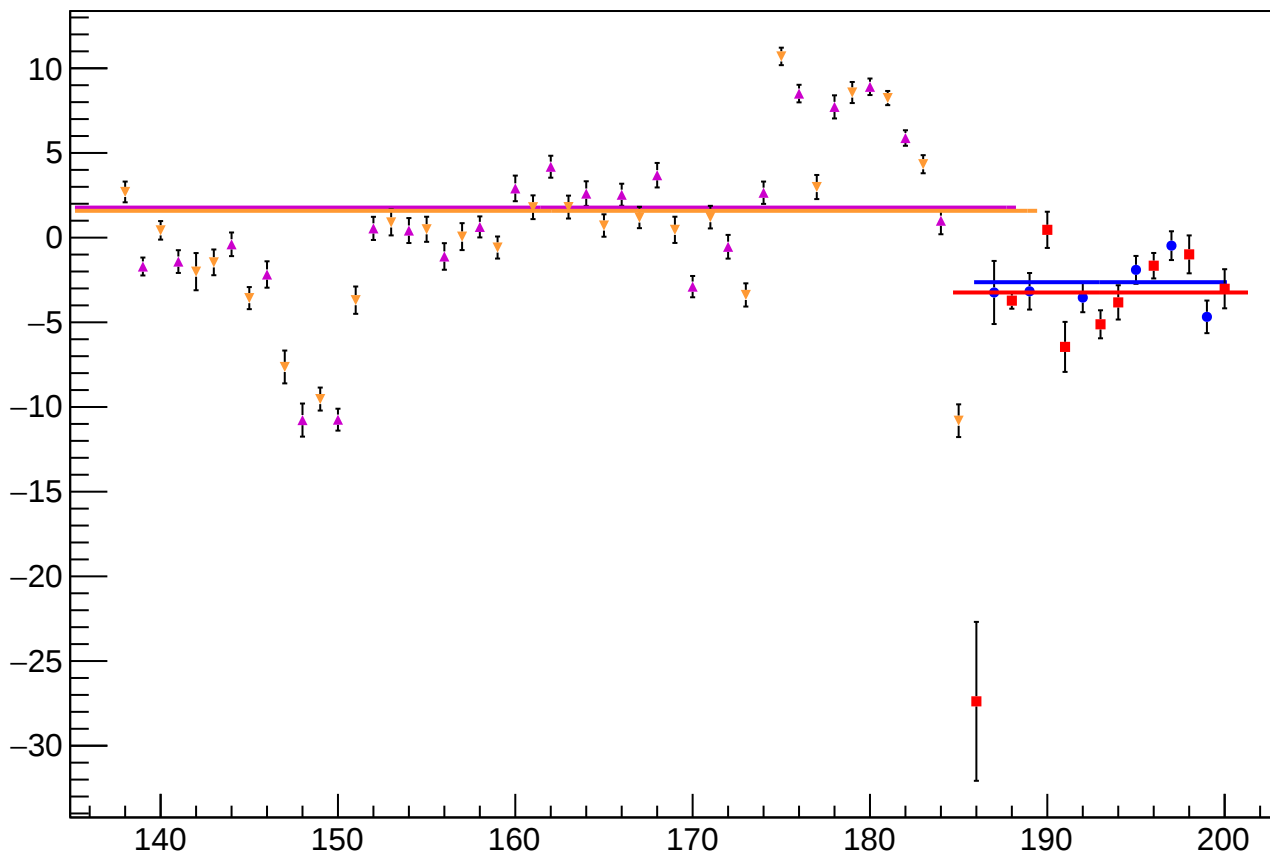
Right: 0.120 $\pm$ 0.002 χ^2/NDF : 20369.5/50

In: 0.108 $\pm$ 0.002 χ^2/NDF : 13610.8/45

Out: 0.083 $\pm$ 0.002 χ^2/NDF : 12773.7/52

All: 0.095 $\pm$ 0.001 χ^2/NDF : 26472.6/98

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.631 ± 0.394 χ^2/NDF : 13.2/5

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -3.239 ± 0.295 χ^2/NDF : 58.2/8

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

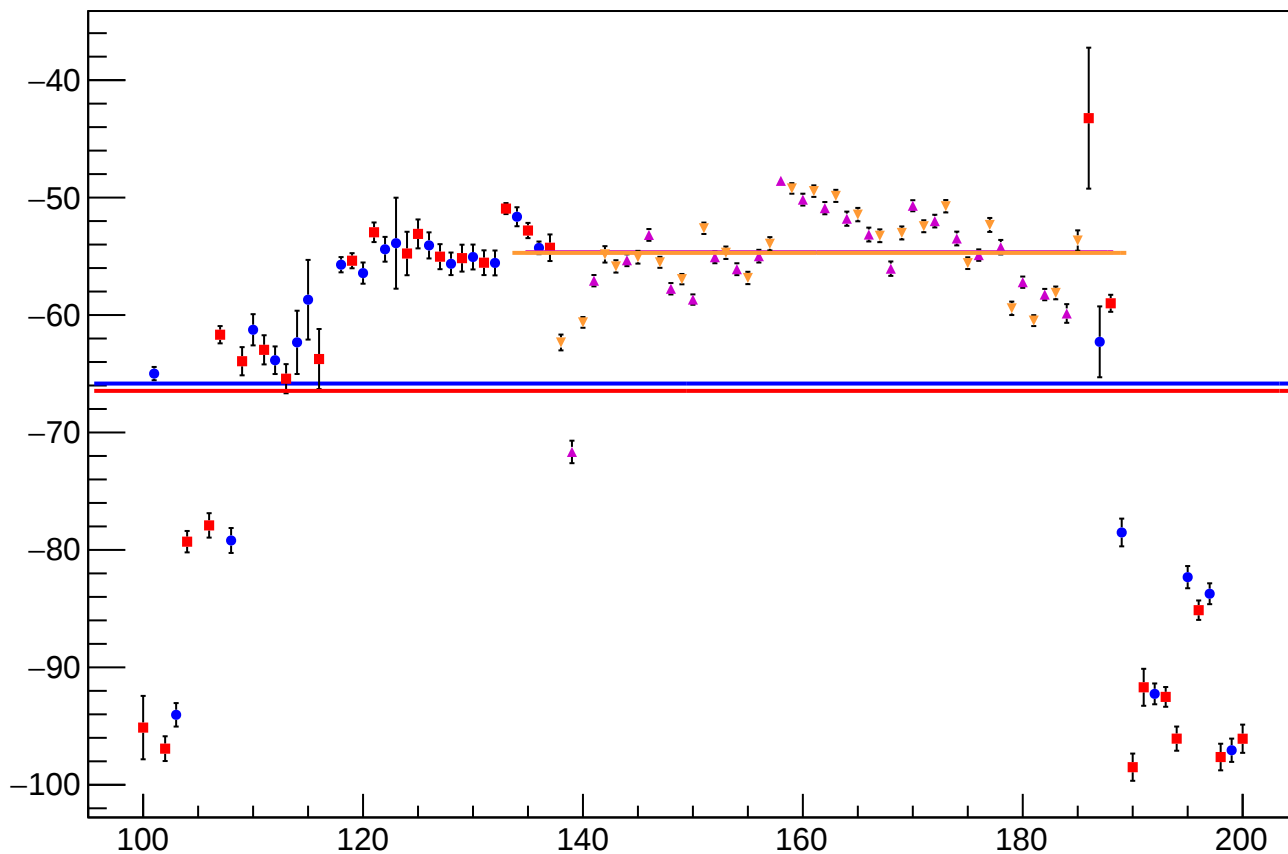
Right: -3.021 ± 0.236 χ^2/NDF : 72.9/14

In: 1.310 ± 0.128 χ^2/NDF : 1422.2/28

Out: 0.770 ± 0.121 χ^2/NDF : 1739.9/33

All: 1.025 ± 0.088 χ^2/NDF : 3171.5/62

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -65.834 ± 0.199 $\chi^2/\text{NDF}: 5352.5/22$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -66.458 ± 0.181 $\chi^2/\text{NDF}: 8822.5/27$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

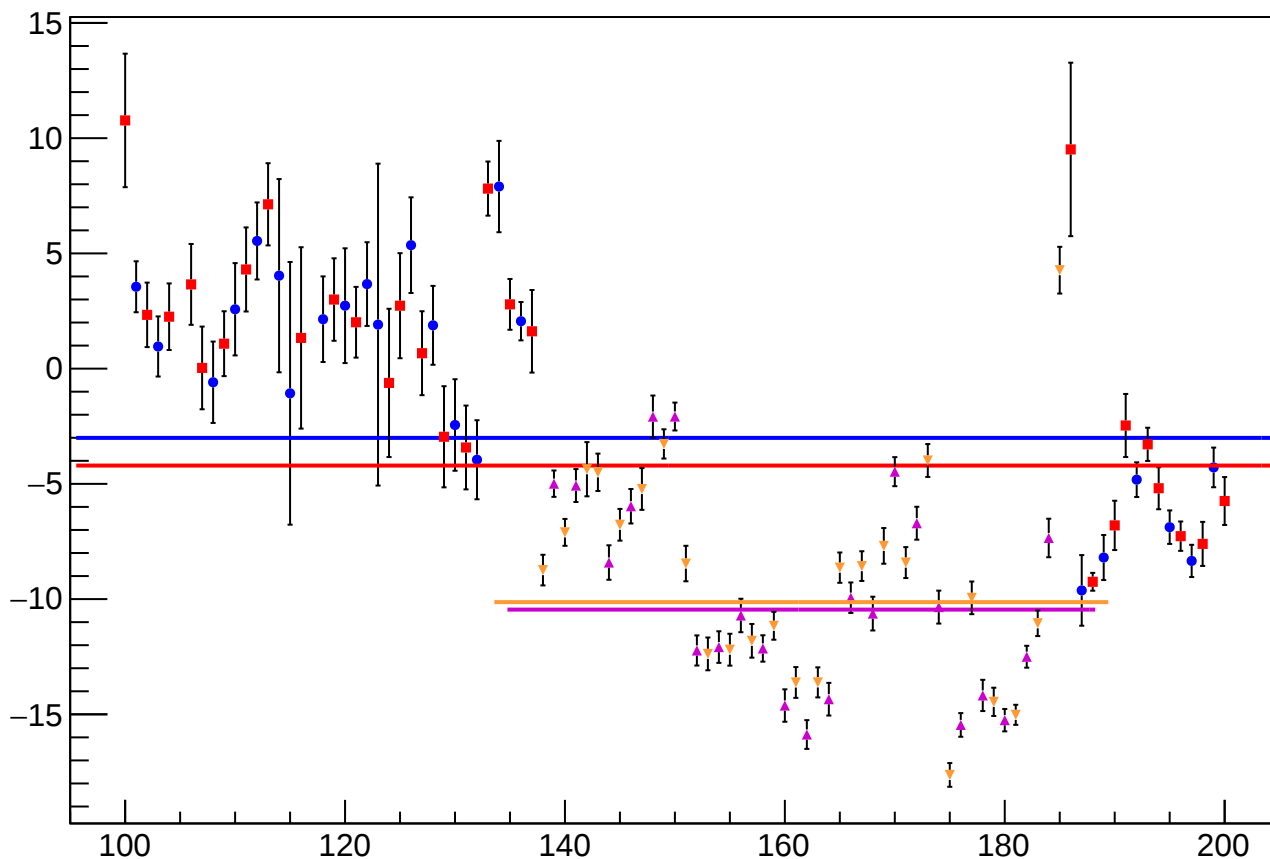
Right: -66.176 ± 0.134 $\chi^2/\text{NDF}: 14180.4/50$

In: -57.257 ± 0.096 $\chi^2/\text{NDF}: 8849.1/45$

Out: -57.700 ± 0.091 $\chi^2/\text{NDF}: 13096.9/52$

All: -57.490 ± 0.066 $\chi^2/\text{NDF}: 21957.2/98$

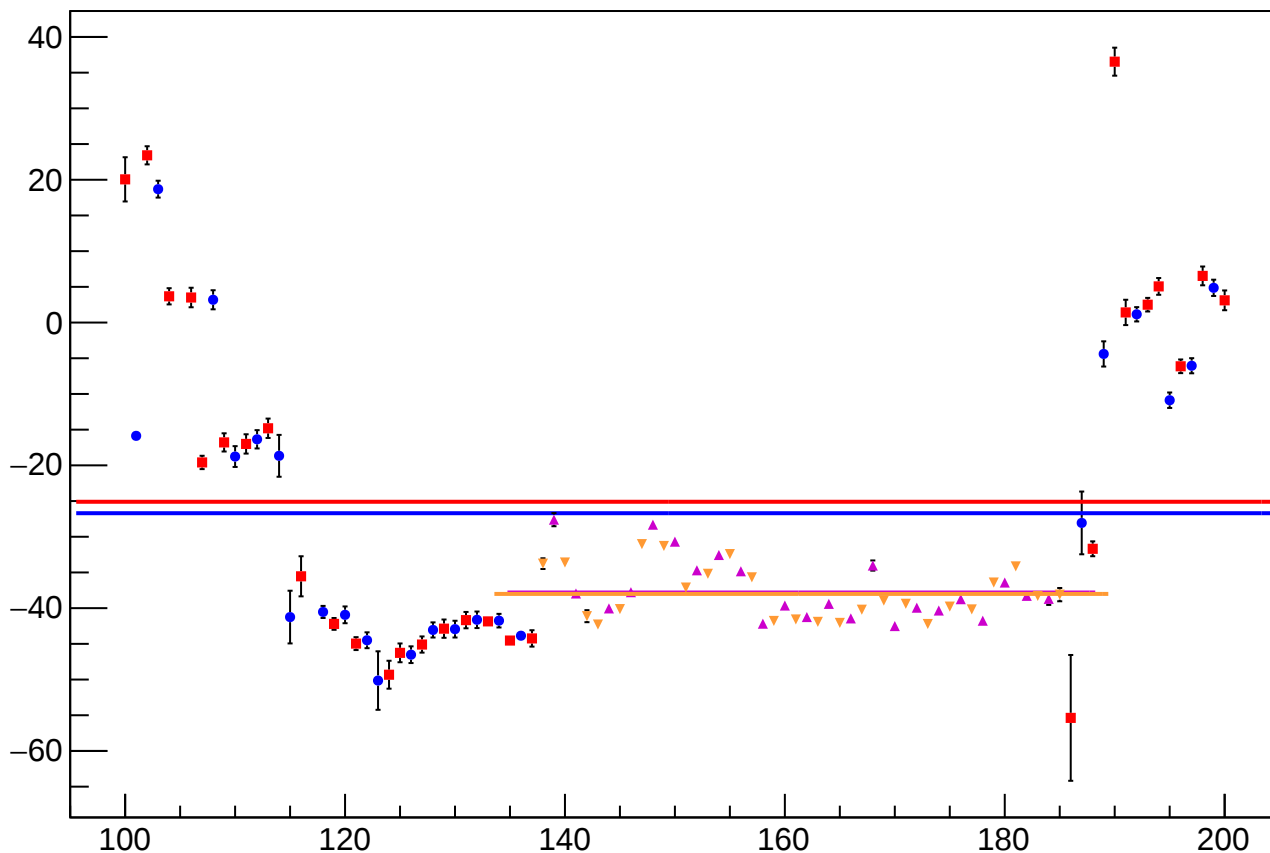
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.005 ± 0.262 $\chi^2/\text{NDF}: 343.8/22$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -4.206 ± 0.211 $\chi^2/\text{NDF}: 609.9/27$
 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: -3.732 ± 0.164 $\chi^2/\text{NDF}: 966.5/50$
 In: -8.897 ± 0.120 $\chi^2/\text{NDF}: 1987.4/45$
 Out: -8.454 ± 0.112 $\chi^2/\text{NDF}: 2228.8/52$
 All: -8.662 ± 0.082 $\chi^2/\text{NDF}: 4223.4/98$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -26.702 ± 0.229 $\chi^2/\text{NDF}: 7478.9/22$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -25.099 ± 0.212 $\chi^2/\text{NDF}: 11109.5/27$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

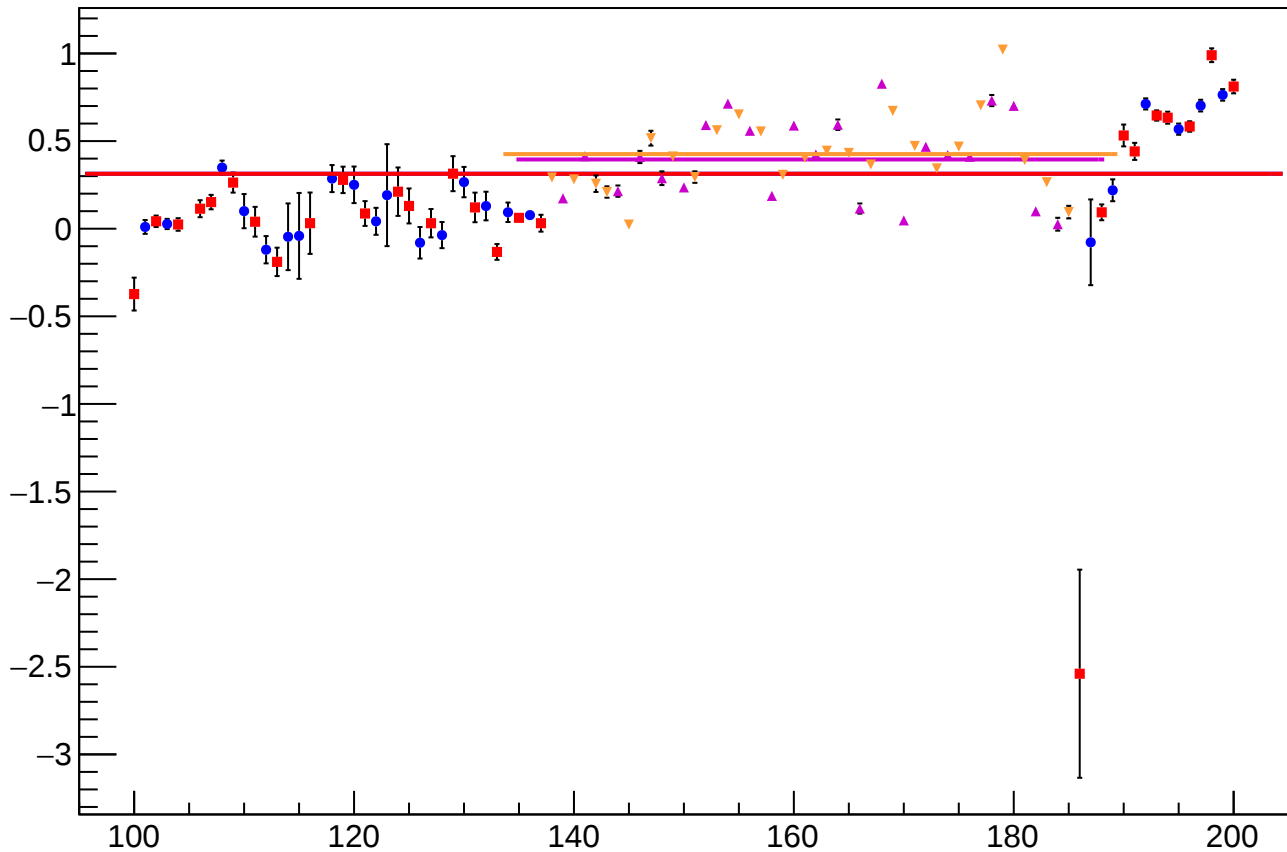
Right: -25.840 ± 0.155 $\chi^2/\text{NDF}: 18614.8/50$

In: -35.338 ± 0.108 $\chi^2/\text{NDF}: 10353.9/45$

Out: -34.920 ± 0.104 $\chi^2/\text{NDF}: 14880.5/52$

All: -35.121 ± 0.075 $\chi^2/\text{NDF}: 25242.2/98$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.314 $\pm$ 0.010 χ^2 /NDF: 934.5/22

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.313 $\pm$ 0.009 χ^2 /NDF: 1349.0/27

Left In: 0.395 $\pm$ 0.005 χ^2 /NDF:1798.2/22

Left: 0.411 $\pm$ 0.004 χ^2 /NDF: 3118.1/47

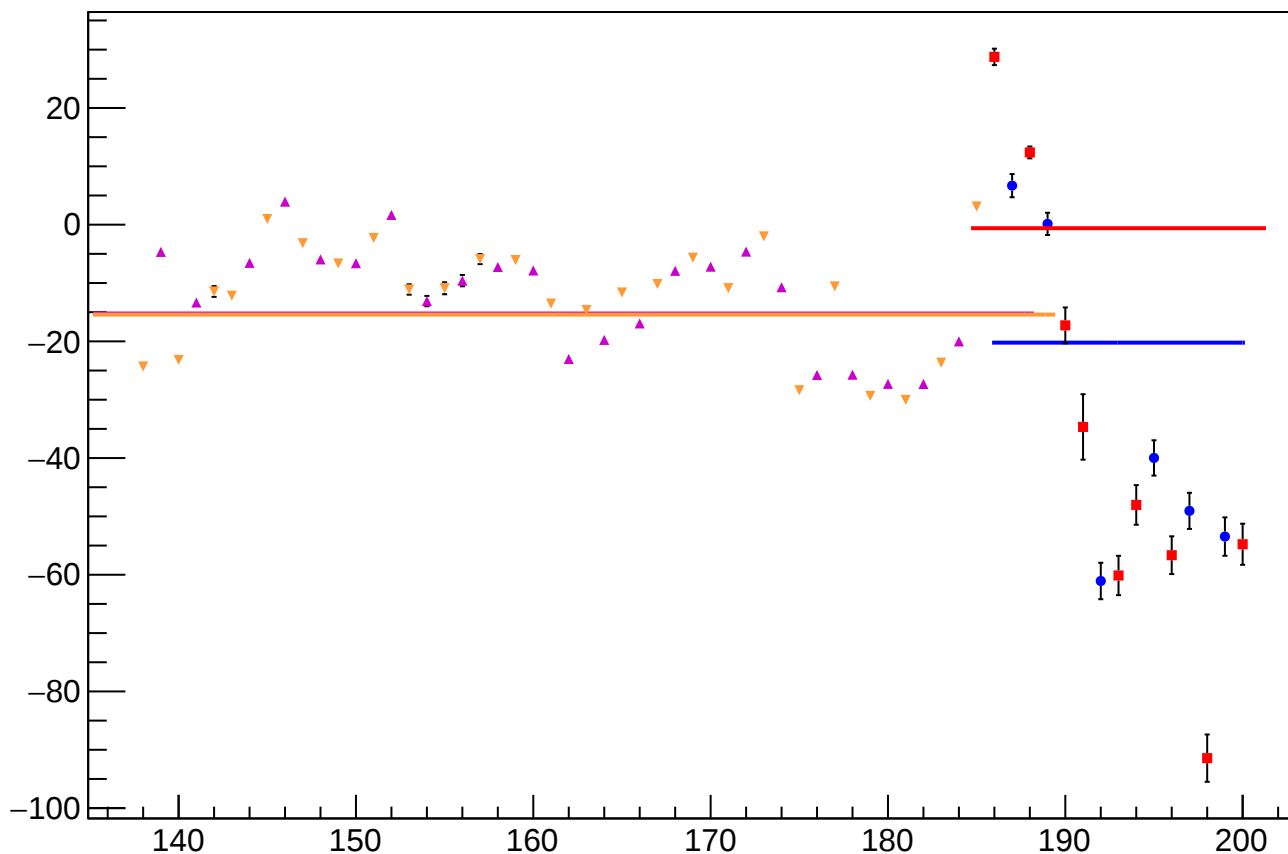
Right: 0.313 $\pm$ 0.007 χ^2 /NDF: 2283.6/50

In: 0.376 $\pm$ 0.005 χ^2 /NDF:2784.8/45

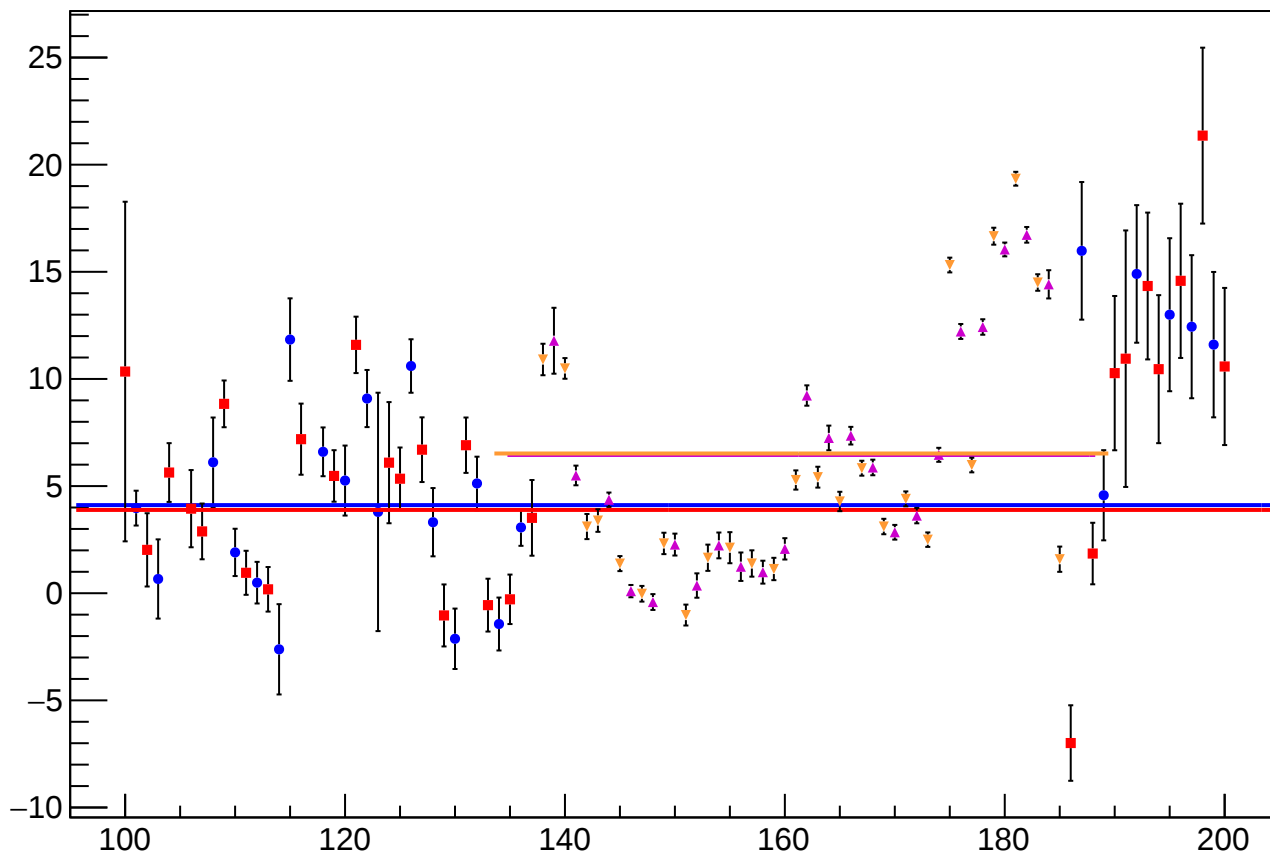
Out: 0.396 $\pm$ 0.005 χ^2 /NDF:2767.9/52

All: 0.387 $\pm$ 0.003 χ^2 /NDF: 5561.8/98

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.112 ± 0.301 $\chi^2/\text{NDF}: 179.3/22$

Left Out: 6.521 ± 0.085 $\chi^2/\text{NDF}: 4985.2/24$

Right Out: 3.887 ± 0.298 $\chi^2/\text{NDF}: 221.5/27$

Left In: 6.452 ± 0.086 $\chi^2/\text{NDF}: 3948.0/22$

Left: 6.487 ± 0.061 $\chi^2/\text{NDF}: 8933.5/47$

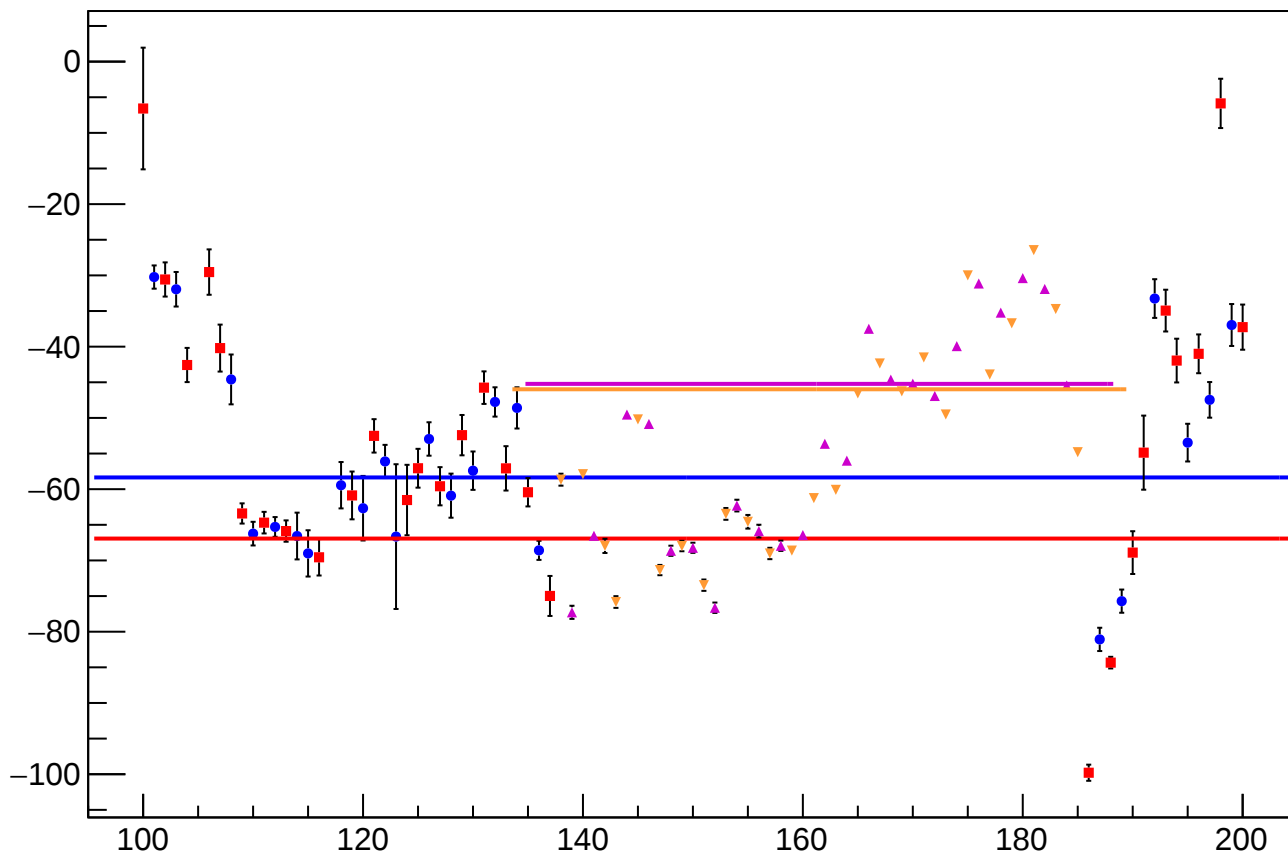
Right: 3.999 ± 0.212 $\chi^2/\text{NDF}: 401.1/50$

In: 6.275 ± 0.083 $\chi^2/\text{NDF}: 4183.1/45$

Out: 6.321 ± 0.082 $\chi^2/\text{NDF}: 5278.9/52$

All: 6.298 ± 0.058 $\chi^2/\text{NDF}: 9462.1/98$

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -58.353 ± 0.462 $\chi^2/\text{NDF}: 1069.2/22$

Left Out: -45.982 ± 0.106 $\chi^2/\text{NDF}: 17360.1/24$

Right Out: -66.930 ± 0.394 $\chi^2/\text{NDF}: 2778.0/27$

Left In: -45.222 ± 0.107 $\chi^2/\text{NDF}: 15600.2/22$

Left: -45.605 ± 0.075 $\chi^2/\text{NDF}: 32985.7/47$

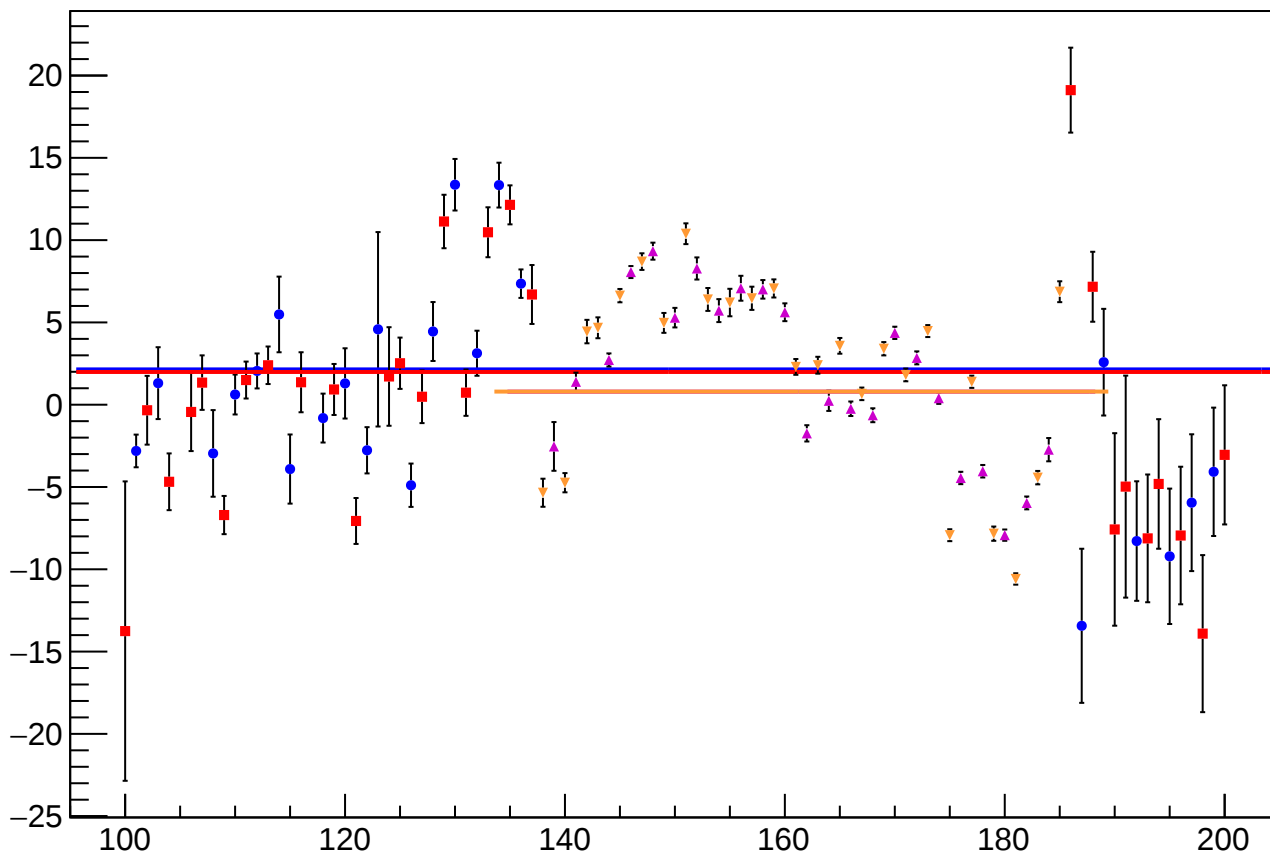
Right: -63.319 ± 0.300 $\chi^2/\text{NDF}: 4046.6/50$

In: -45.892 ± 0.104 $\chi^2/\text{NDF}: 17435.6/45$

Out: -47.401 ± 0.103 $\chi^2/\text{NDF}: 22771.5/52$

All: -46.660 ± 0.073 $\chi^2/\text{NDF}: 40313.3/98$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.145 ± 0.340 χ^2/NDF : 276.6/22

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.990 ± 0.341 χ^2/NDF : 346.3/27

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

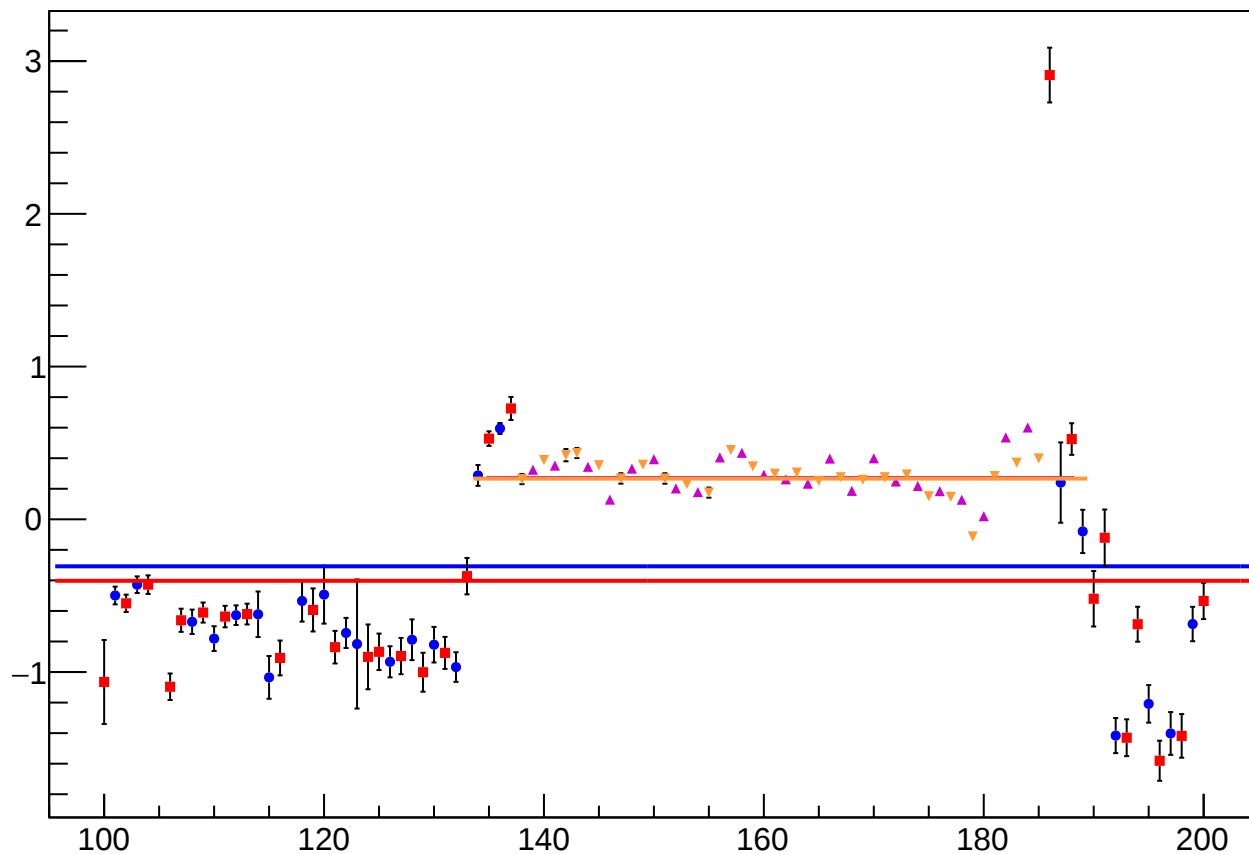
Right: 2.068 ± 0.241 χ^2/NDF : 623.0/50

In: 0.893 ± 0.093 χ^2/NDF : 2983.8/45

Out: 0.884 ± 0.092 χ^2/NDF : 4117.6/52

All: 0.889 ± 0.065 χ^2/NDF : 7101.4/98

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.308 ± 0.018 χ^2/NDF : 1198.8/22

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.403 ± 0.017 χ^2/NDF : 1479.8/27

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

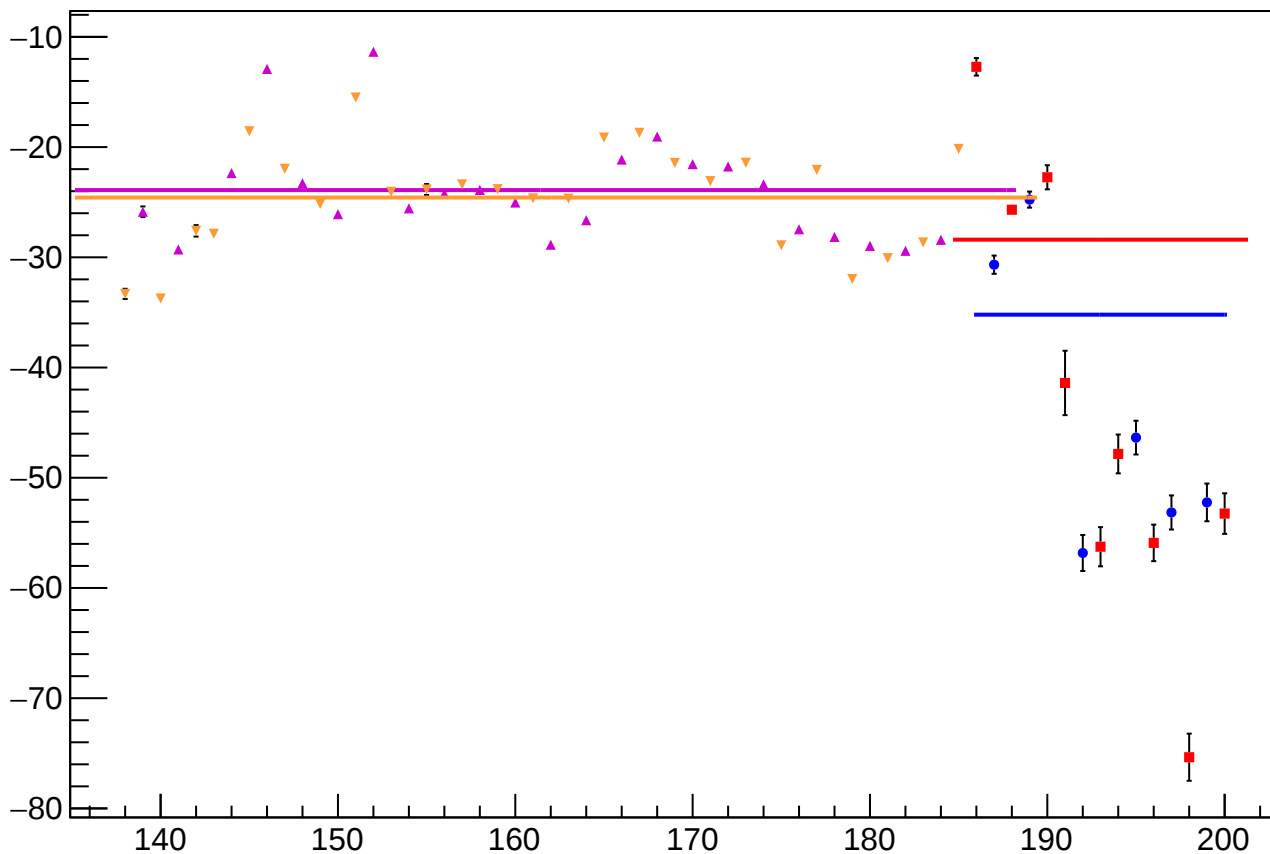
Right: -0.356 ± 0.012 χ^2/NDF : 2692.9/50

In: 0.237 ± 0.004 χ^2/NDF : 3153.8/45

Out: 0.227 ± 0.004 χ^2/NDF : 3560.6/52

All: 0.232 ± 0.003 χ^2/NDF : 6716.9/98

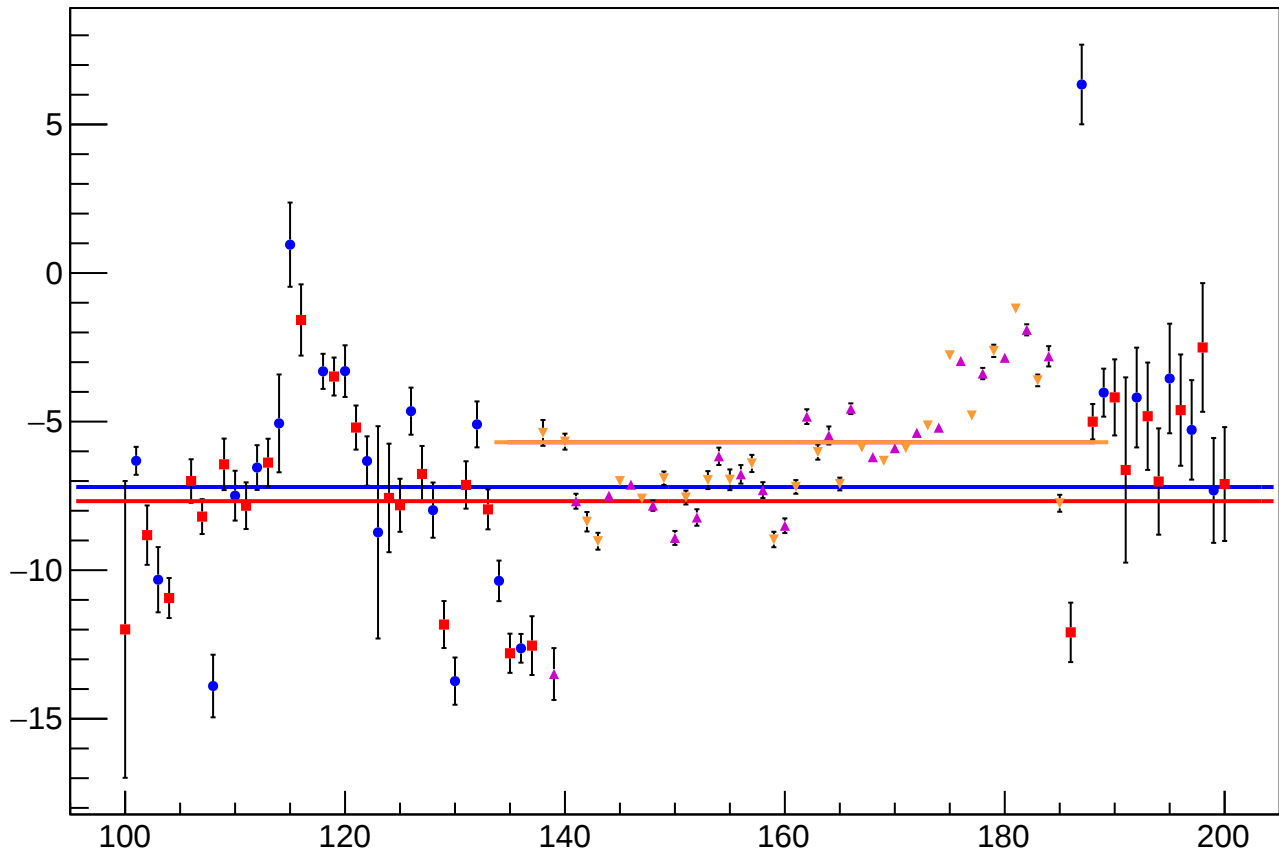
reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -35.204 ± 0.452 χ^2/NDF : 696.5/5
 Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24
 Right Out: -28.398 ± 0.325 χ^2/NDF : 1784.6/8
 Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47
 Right: -30.721 ± 0.264 χ^2/NDF : 2630.5/14
 In: -24.044 ± 0.051 χ^2/NDF : 10469.0/28
 Out: -24.669 ± 0.050 χ^2/NDF : 10509.7/33
 All: -24.359 ± 0.036 χ^2/NDF : 21055.1/62

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.202 ± 0.177 χ^2/NDF : 512.3/22

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.677 ± 0.170 χ^2/NDF : 284.1/27

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

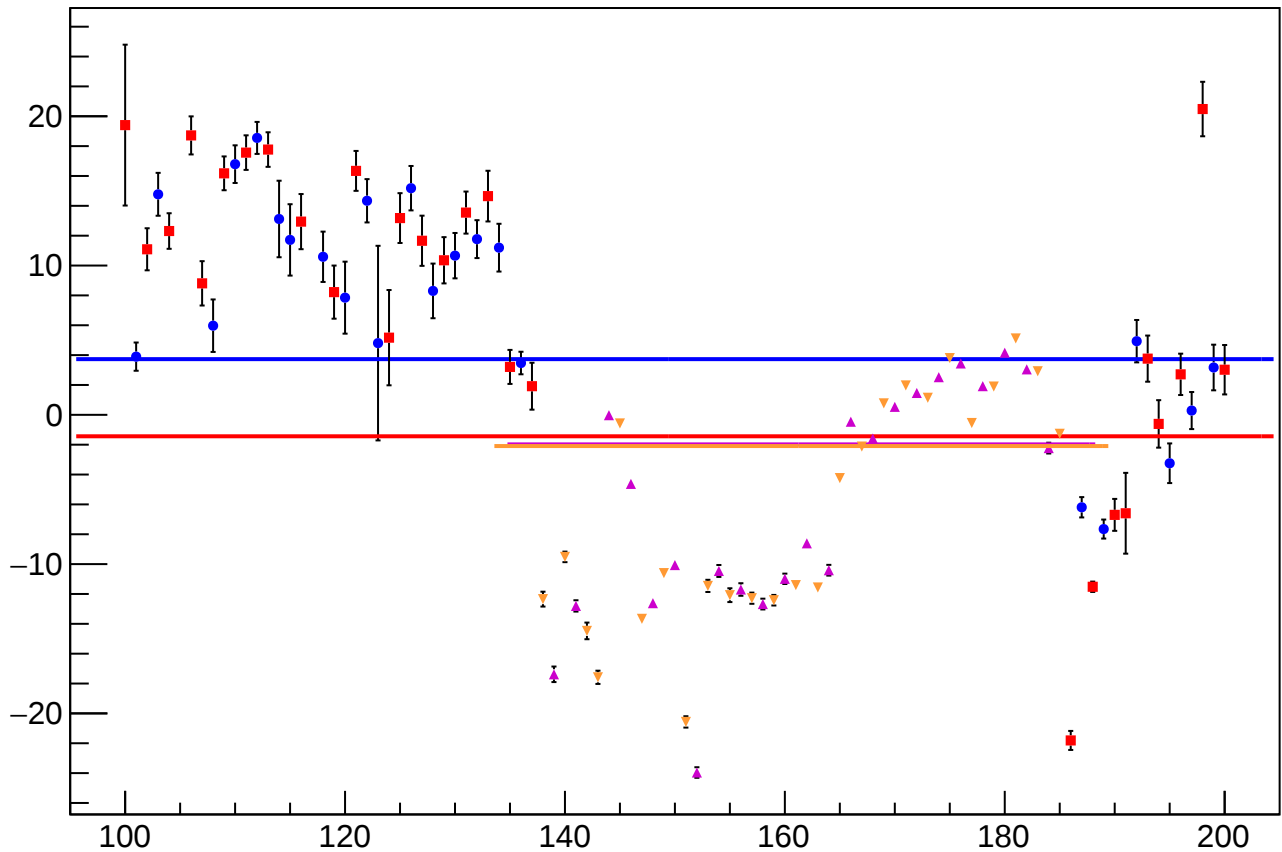
Right: -7.450 ± 0.122 χ^2/NDF : 800.2/50

In: -5.772 ± 0.040 χ^2/NDF : 2890.8/45

Out: -5.804 ± 0.040 χ^2/NDF : 2671.7/52

All: -5.788 ± 0.028 χ^2/NDF : 5562.8/98

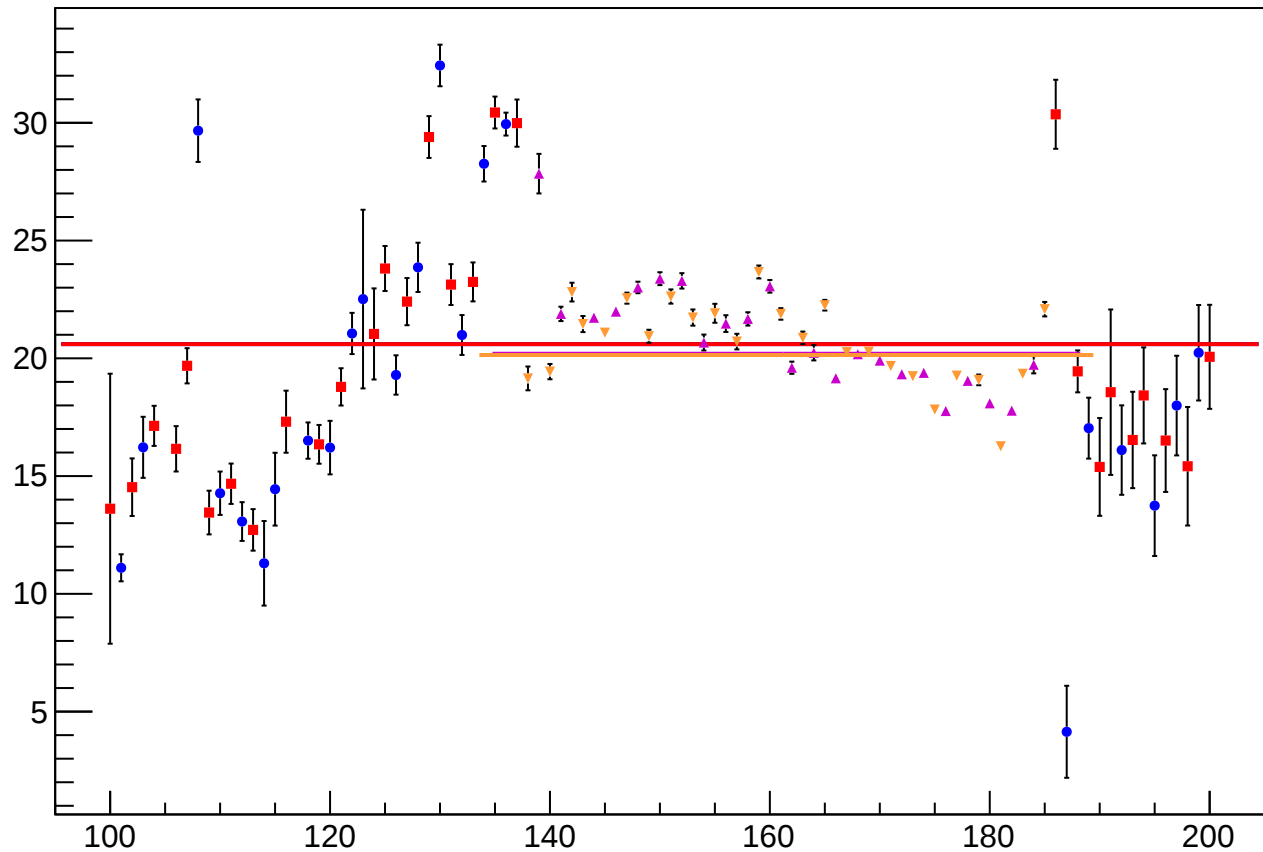
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 3.730 ± 0.254 $\chi^2/\text{NDF}: 1174.0/22$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.438 ± 0.209 $\chi^2/\text{NDF}: 4073.0/27$
 Left In: -1.980 ± 0.051 $\chi^2/\text{NDF}: 15382.3/22$

Left: -2.036 ± 0.036 $\chi^2/\text{NDF}: 31690.0/47$
 Right: 0.652 ± 0.162 $\chi^2/\text{NDF}: 5493.5/50$
 In: -1.757 ± 0.050 $\chi^2/\text{NDF}: 17042.0/45$
 Out: -2.055 ± 0.050 $\chi^2/\text{NDF}: 20387.5/52$
 All: -1.907 ± 0.035 $\chi^2/\text{NDF}: 37447.1/98$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.605 $\pm$ 0.203 χ^2 /NDF: 1309.8/22

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.602 $\pm$ 0.200 χ^2 /NDF: 787.4/27

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

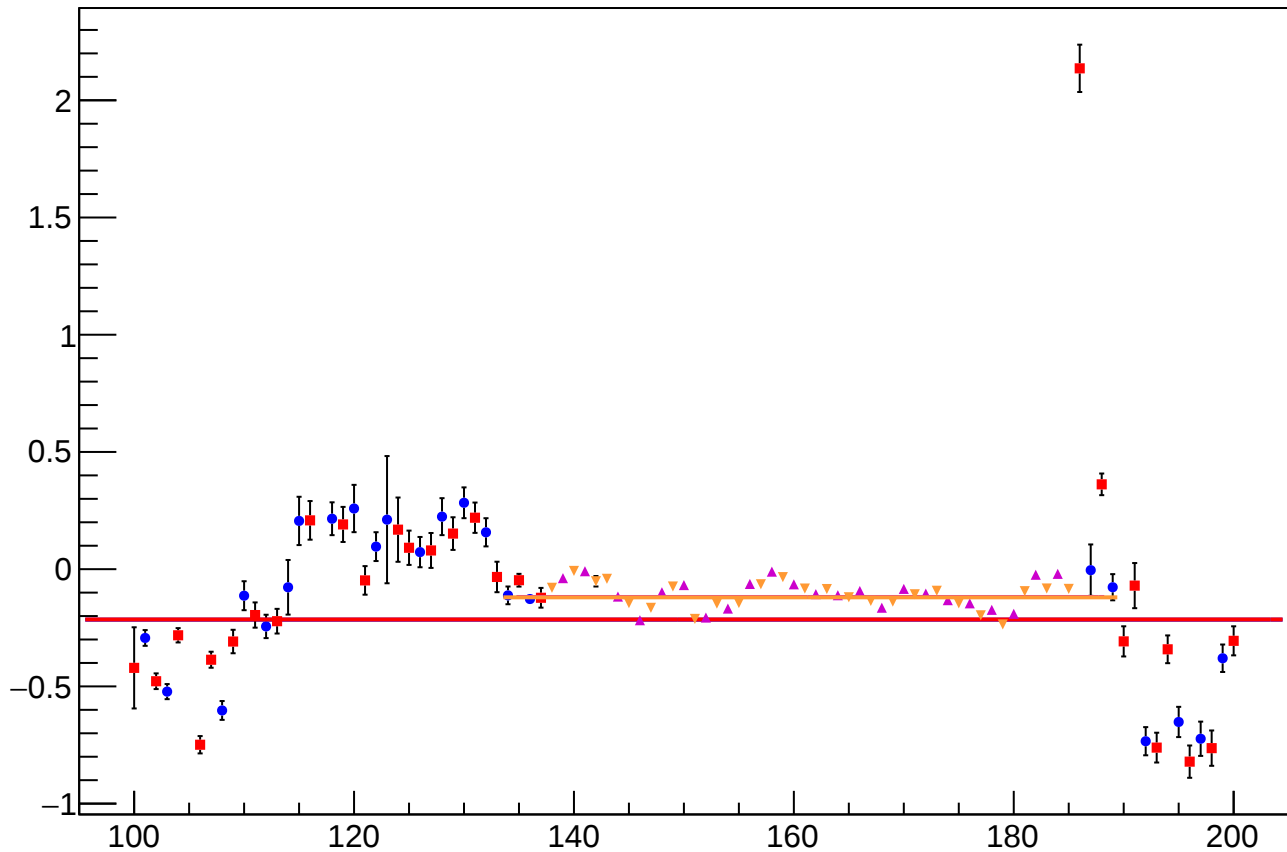
Right: 20.603 $\pm$ 0.142 χ^2 /NDF: 2097.2/50

In: 20.214 $\pm$ 0.045 χ^2 /NDF:2761.1/45

Out: 20.164 $\pm$ 0.045 χ^2 /NDF:2211.5/52

All: 20.189 $\pm$ 0.032 χ^2 /NDF: 4973.2/98

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.215 ± 0.010 χ^2/NDF : 658.1/22

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.215 ± 0.010 χ^2/NDF : 1447.5/27

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

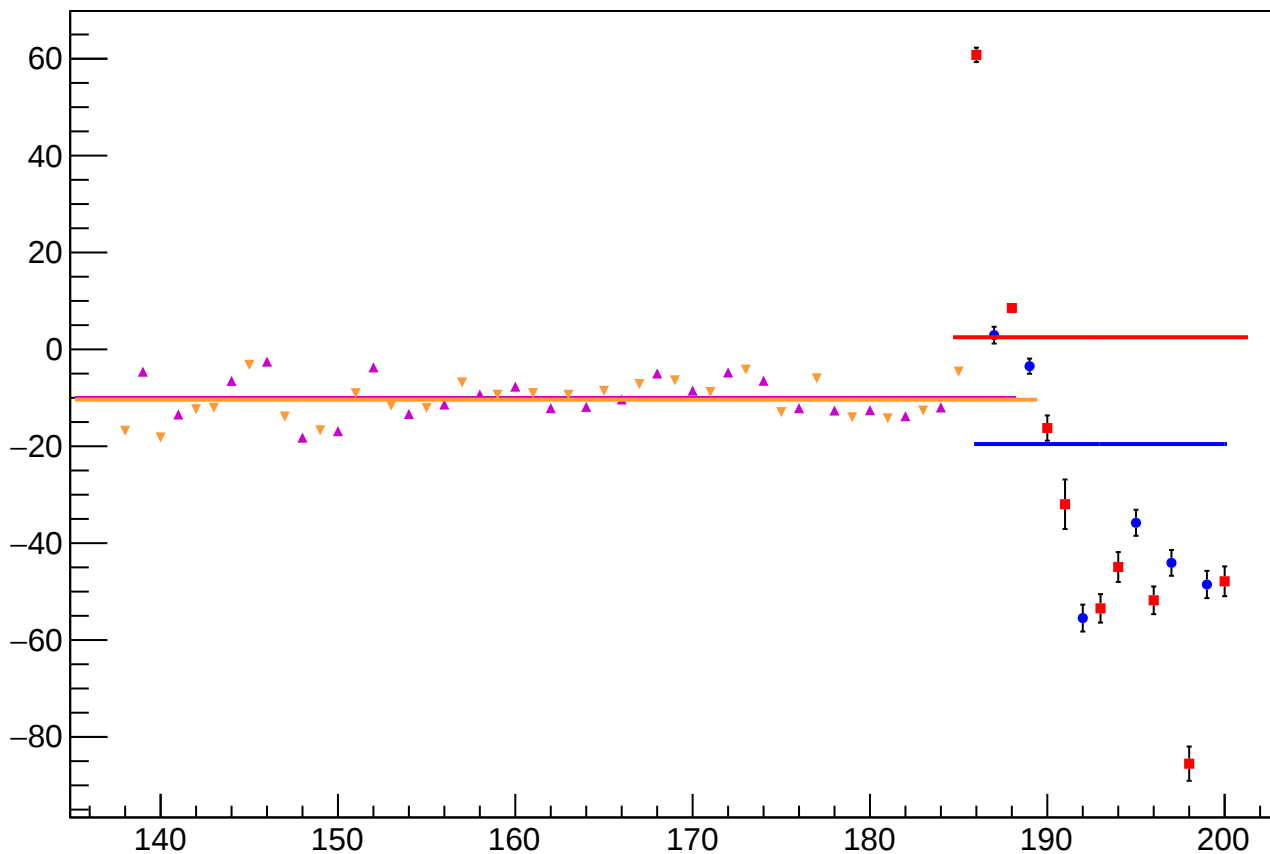
Right: -0.215 ± 0.007 χ^2/NDF : 2105.6/50

In: -0.123 ± 0.002 χ^2/NDF : 1463.8/45

Out: -0.124 ± 0.002 χ^2/NDF : 2066.7/52

All: -0.123 ± 0.001 χ^2/NDF : 3530.9/98

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected

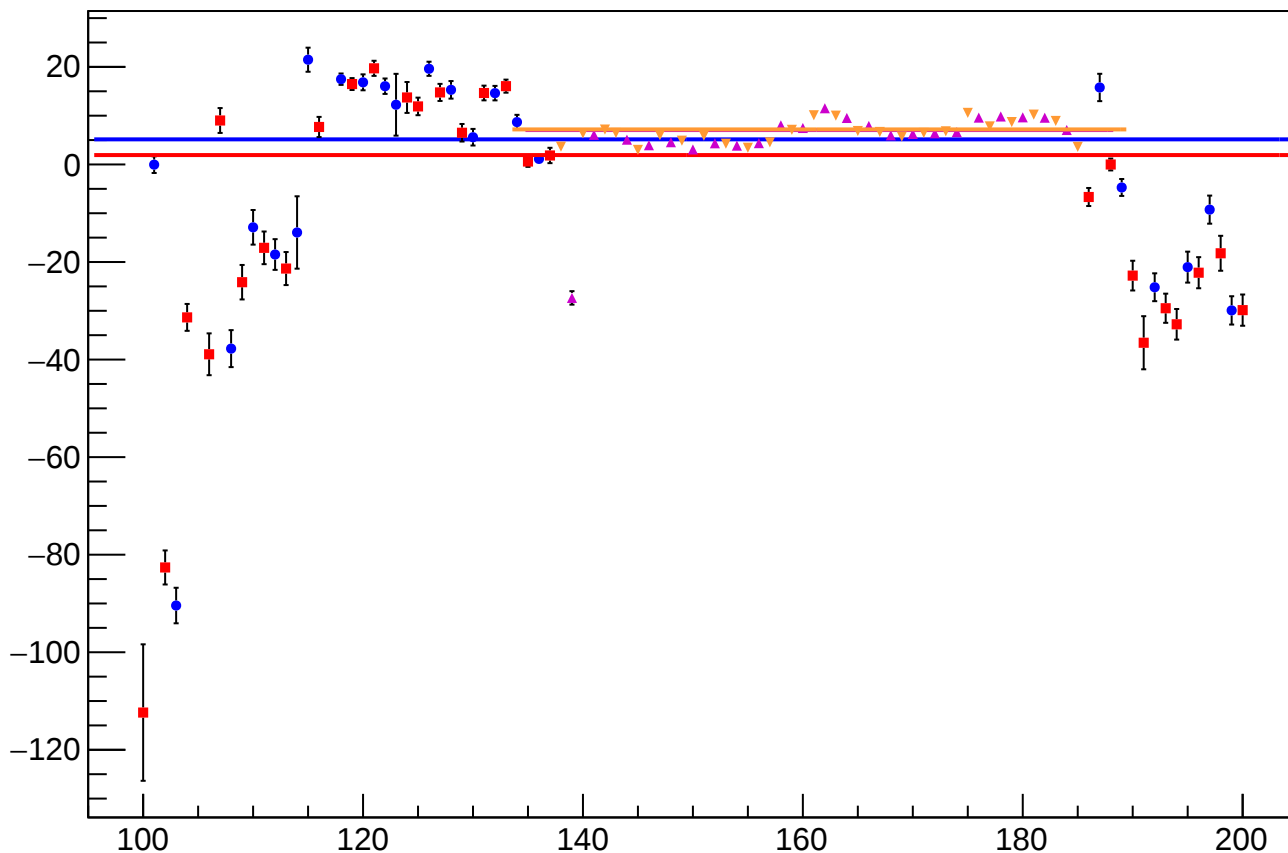


Right In: -19.541 ± 0.885 χ^2/NDF : 668.4/5
 Left Out: -10.391 ± 0.088 χ^2/NDF : 2111.6/24
 Right Out: 2.502 ± 0.630 χ^2/NDF : 3530.8/8
 Left In: -10.036 ± 0.090 χ^2/NDF : 1758.7/22

Left: -10.217 ± 0.063 χ^2/NDF : 3878.3/47
 Right: -4.902 ± 0.513 χ^2/NDF : 4610.8/14
 In: -10.132 ± 0.089 χ^2/NDF : 2541.1/28
 Out: -10.145 ± 0.087 χ^2/NDF : 6053.6/33

All: -10.138 ± 0.062 χ^2/NDF : 8594.8/62

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.145 $\pm$ 0.379 χ^2 /NDF: 1772.3/22

Left Out: 7.184 $\pm$ 0.073 χ^2 /NDF: 917.3/24

Right Out: 1.924 $\pm$ 0.381 χ^2 /NDF: 2162.4/27

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

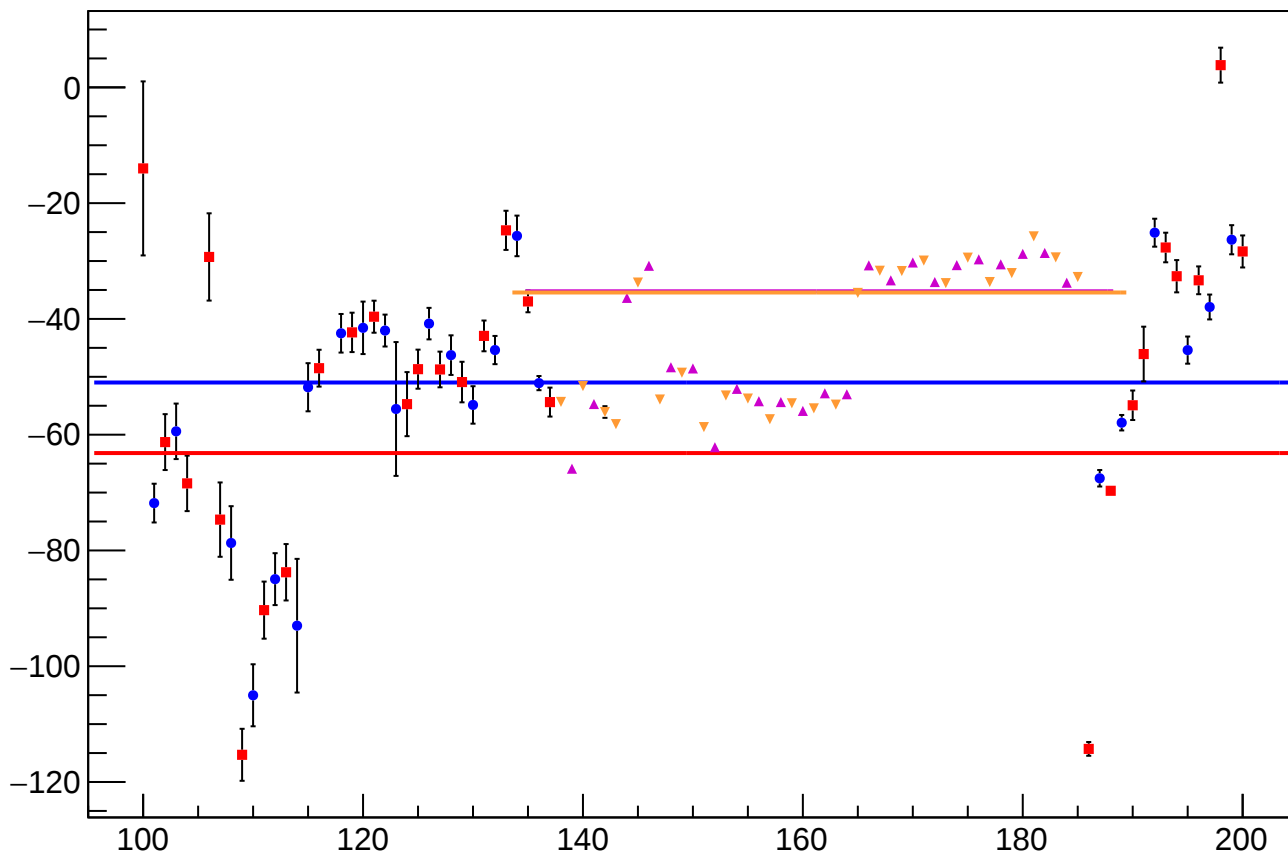
Right: 3.543 $\pm$ 0.269 χ^2 /NDF: 3970.6/50

In: 6.982 $\pm$ 0.073 χ^2 /NDF: 3332.6/45

Out: 6.996 $\pm$ 0.072 χ^2 /NDF: 3263.4/52

All: 6.989 $\pm$ 0.051 χ^2 /NDF: 6595.9/98

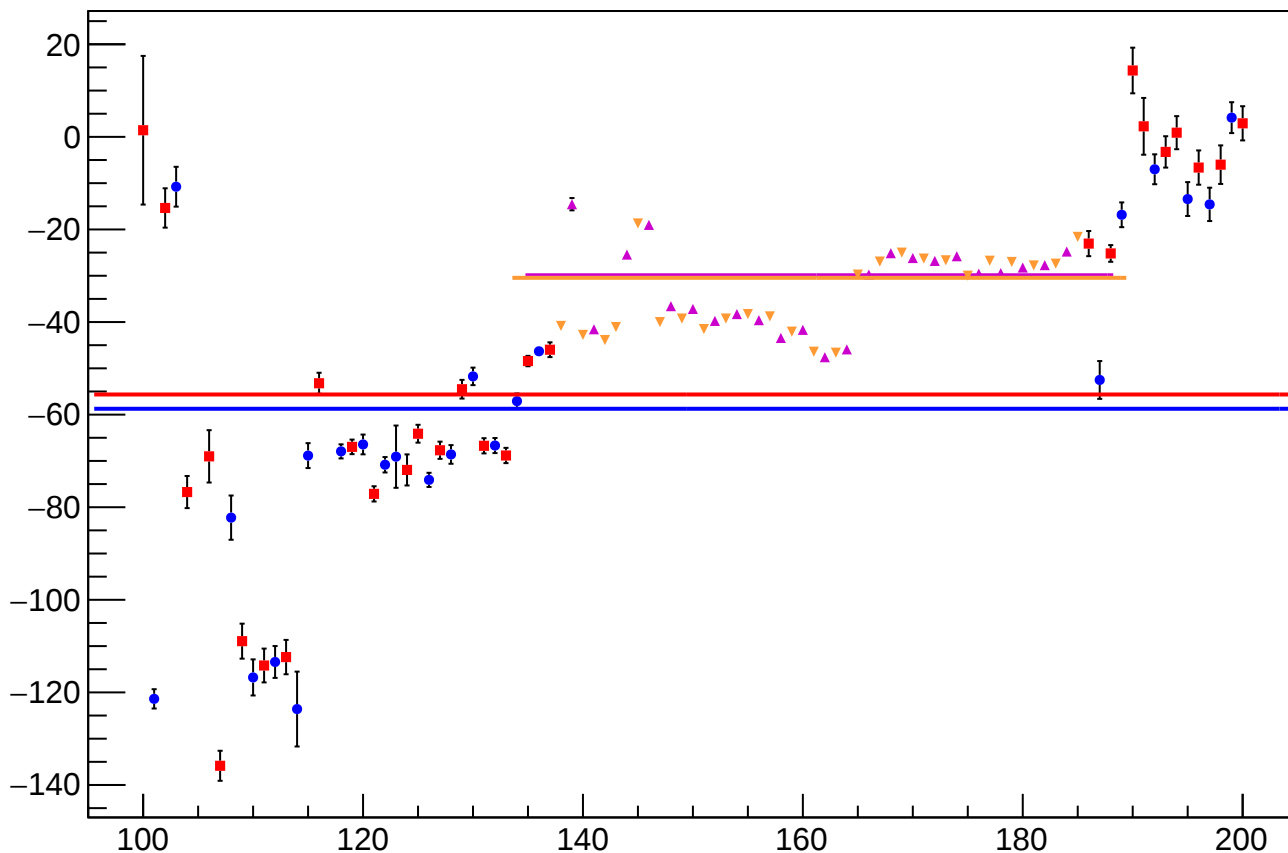
reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -50.986 ± 0.527 χ^2/NDF : 745.3/22
 Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24
 Right Out: -63.175 ± 0.436 χ^2/NDF : 3881.4/27
 Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47
 Right: -58.218 ± 0.336 χ^2/NDF : 4943.9/50
 In: -35.676 ± 0.089 χ^2/NDF : 13216.3/45
 Out: -36.542 ± 0.087 χ^2/NDF : 20543.3/52
 All: -36.117 ± 0.062 χ^2/NDF : 33808.0/98

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -58.733 ± 0.427 $\chi^2/\text{NDF}: 3282.2/22$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -55.649 ± 0.441 $\chi^2/\text{NDF}: 3721.0/27$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

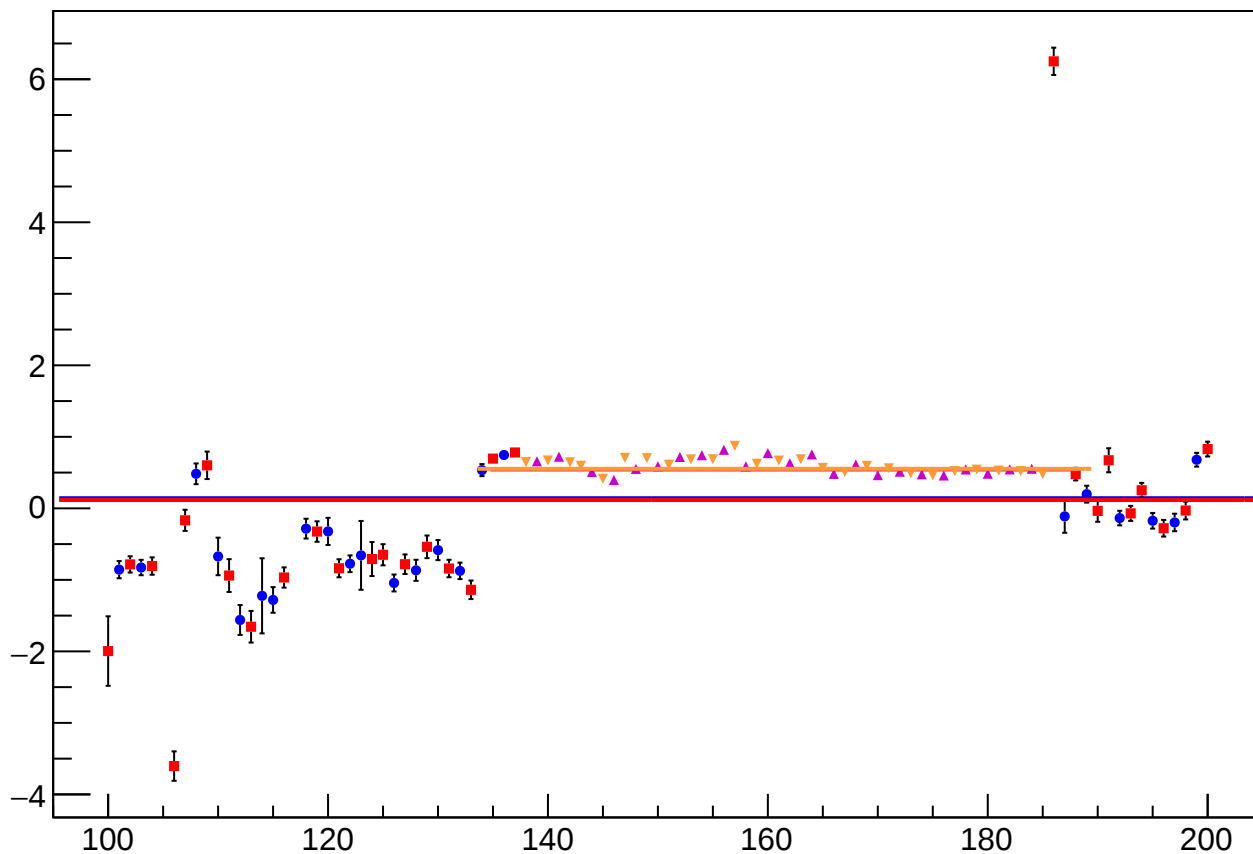
Right: -57.240 ± 0.307 $\chi^2/\text{NDF}: 7028.5/50$

In: -30.933 ± 0.081 $\chi^2/\text{NDF}: 14801.0/45$

Out: -31.282 ± 0.080 $\chi^2/\text{NDF}: 15052.5/52$

All: -31.110 ± 0.057 $\chi^2/\text{NDF}: 29862.9/98$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.142 $\pm$ 0.021 χ^2 /NDF: 1043.5/22

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.116 $\pm$ 0.022 χ^2 /NDF: 2327.4/27

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

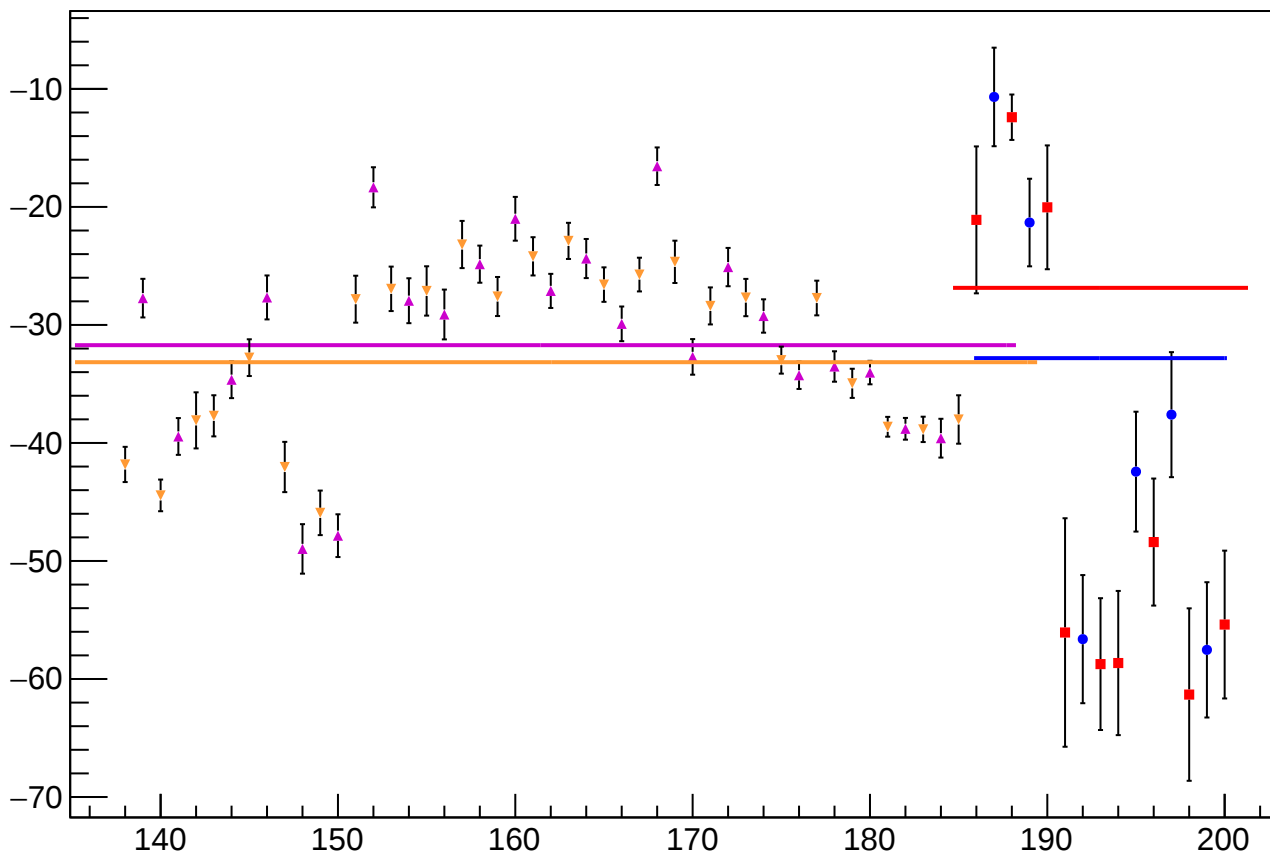
Right: 0.129 $\pm$ 0.015 χ^2 /NDF: 3371.6/50

In: 0.532 $\pm$ 0.004 χ^2 /NDF:2040.1/45

Out: 0.541 $\pm$ 0.004 χ^2 /NDF:3257.2/52

All: 0.536 $\pm$ 0.003 χ^2 /NDF: 5300.2/98

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.813 ± 1.929 χ^2/NDF : 79.9/5

Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24

Right Out: -26.858 ± 1.443 χ^2/NDF : 186.8/8

Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47

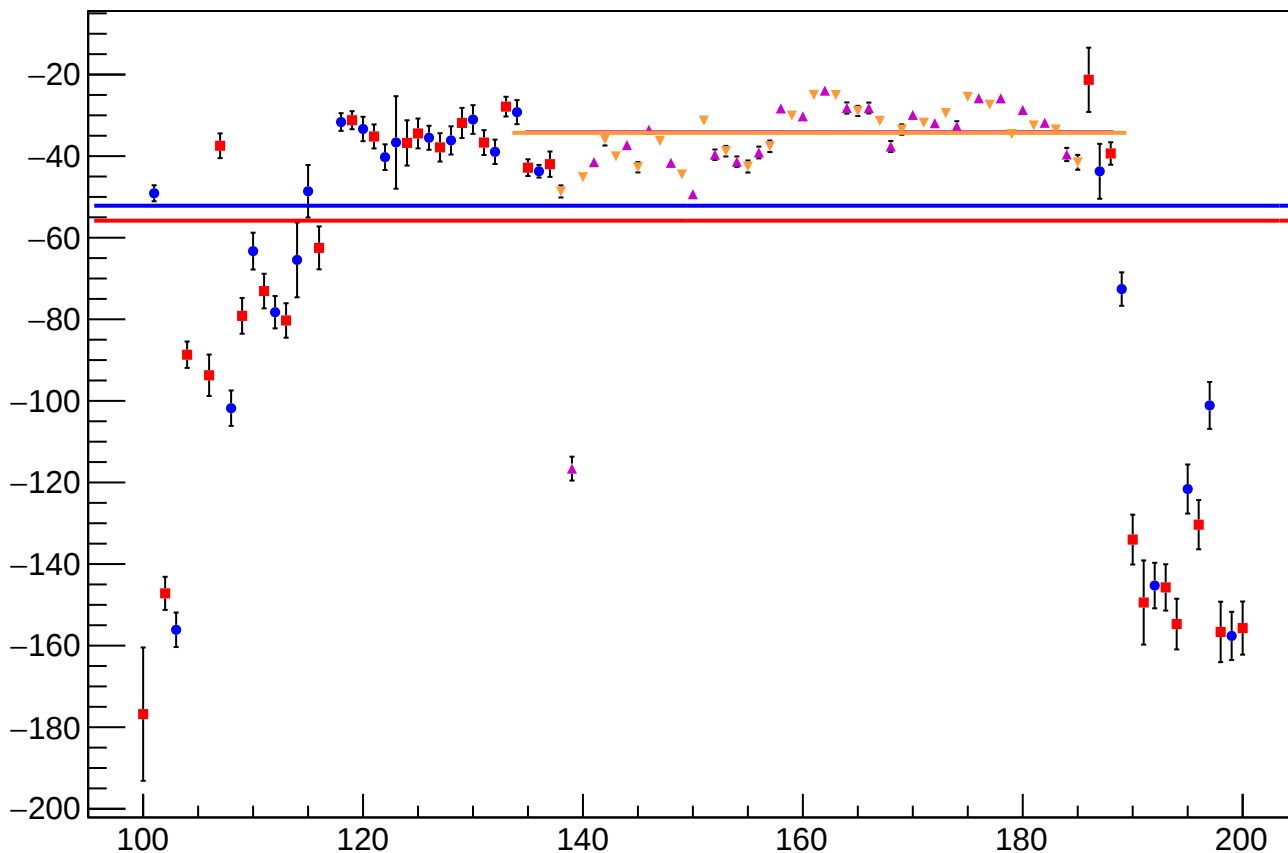
Right: -28.993 ± 1.155 χ^2/NDF : 272.8/14

In: -31.742 ± 0.305 χ^2/NDF : 622.5/28

Out: -32.895 ± 0.294 χ^2/NDF : 705.2/33

All: -32.340 ± 0.212 χ^2/NDF : 1335.1/62

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -52.158 ± 0.694 $\chi^2/\text{NDF}: 1963.2/22$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -55.822 ± 0.703 $\chi^2/\text{NDF}: 2737.7/27$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

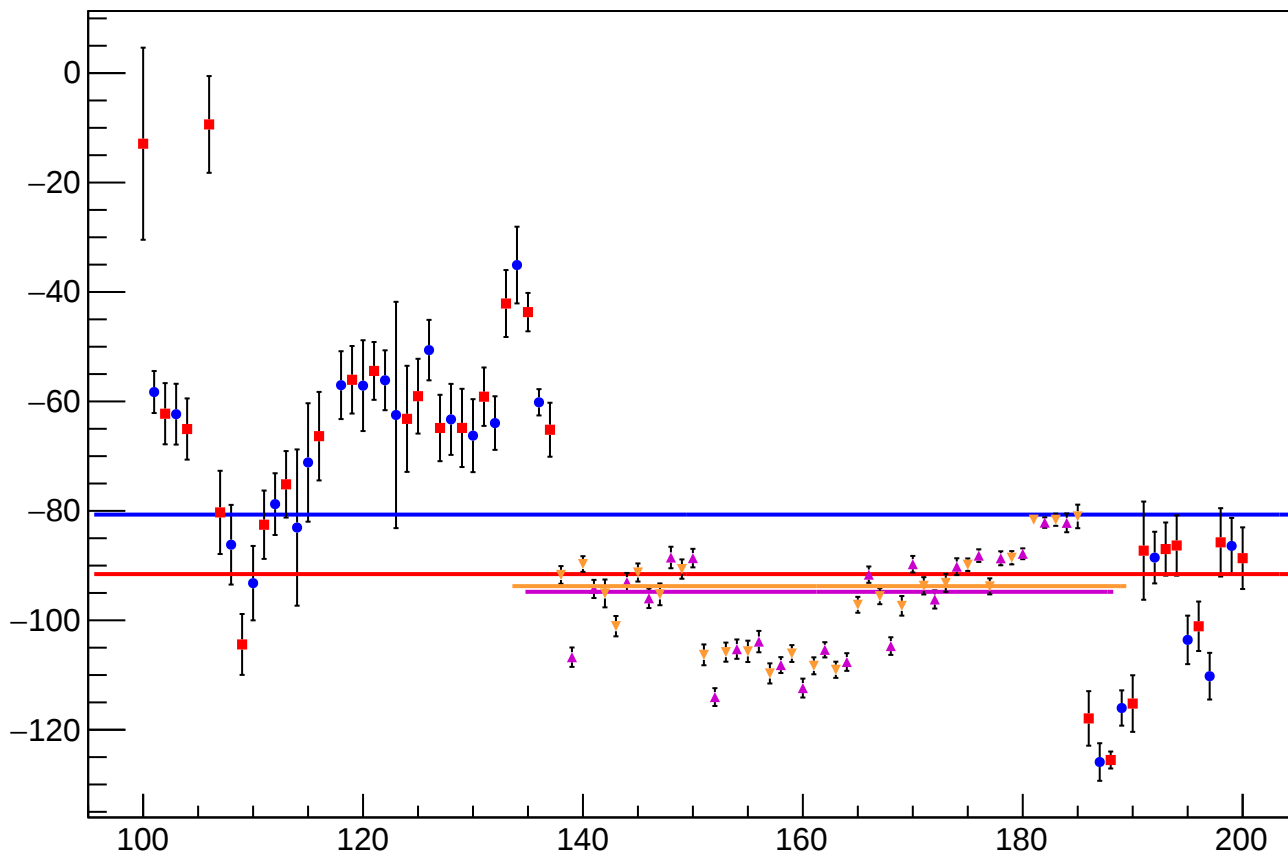
Right: -53.966 ± 0.494 $\chi^2/\text{NDF}: 4714.6/50$

In: -36.224 ± 0.236 $\chi^2/\text{NDF}: 4011.1/45$

Out: -36.558 ± 0.228 $\chi^2/\text{NDF}: 4271.5/52$

All: -36.396 ± 0.164 $\chi^2/\text{NDF}: 8283.7/98$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -80.680 ± 1.028 χ^2/NDF : 634.3/22

Left Out: -93.754 ± 0.302 χ^2/NDF : 883.1/24

Right Out: -91.553 ± 0.909 χ^2/NDF : 1183.7/27

Left In: -94.796 ± 0.308 χ^2/NDF : 974.7/22

Left: -94.264 ± 0.216 χ^2/NDF : 1863.6/47

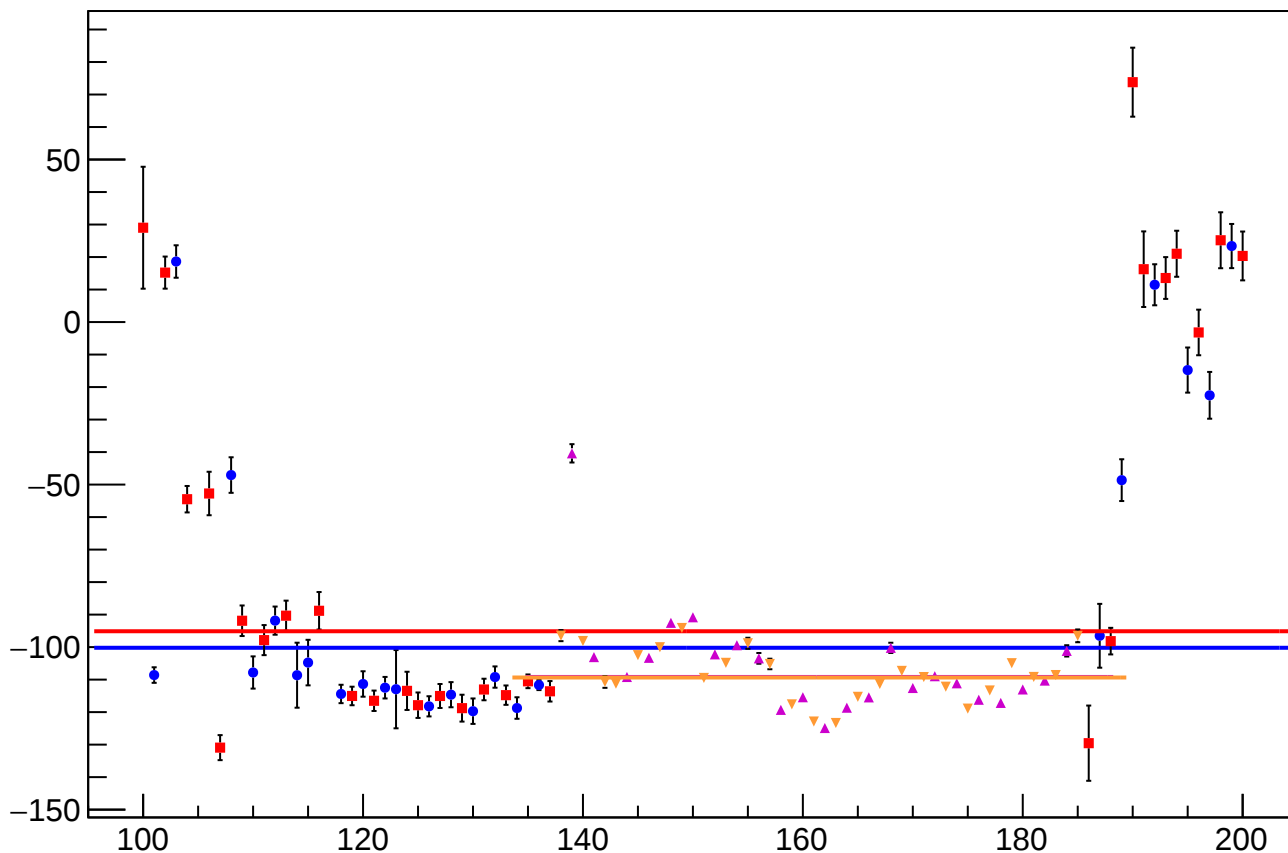
Right: -86.782 ± 0.681 χ^2/NDF : 1880.8/50

In: -93.630 ± 0.295 χ^2/NDF : 1782.0/45

Out: -93.536 ± 0.286 χ^2/NDF : 2072.1/52

All: -93.581 ± 0.206 χ^2/NDF : 3854.1/98

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -100.204 ± 0.787 χ^2/NDF : 1870.6/22

Left Out: -109.351 ± 0.271 χ^2/NDF : 826.8/24

Right Out: -95.121 ± 0.810 χ^2/NDF : 2646.8/27

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

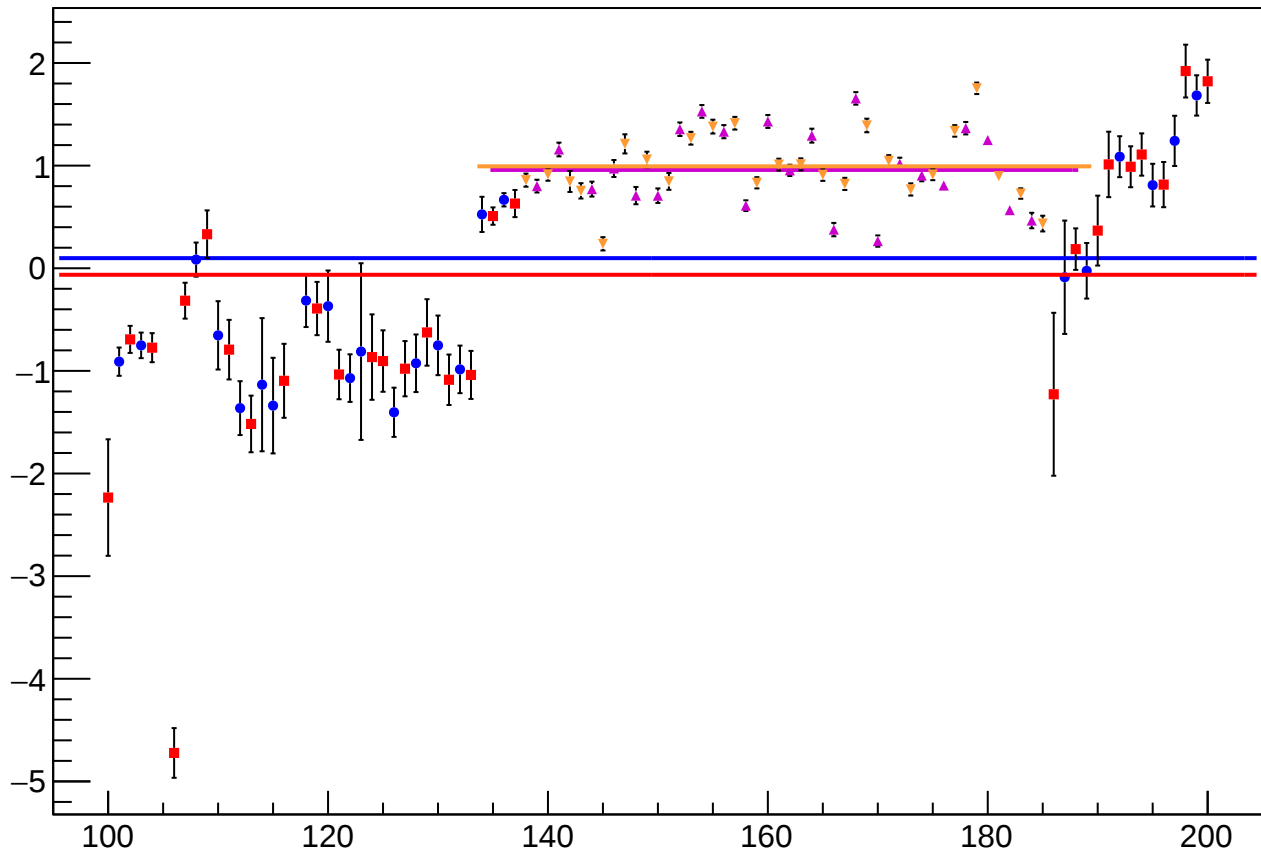
Right: -97.737 ± 0.565 χ^2/NDF : 4537.6/50

In: -108.175 ± 0.264 χ^2/NDF : 3487.3/45

Out: -107.918 ± 0.257 χ^2/NDF : 3751.0/52

All: -108.043 ± 0.184 χ^2/NDF : 7238.8/98

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.098 ± 0.039 χ^2/NDF : 469.6/22

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: -0.064 ± 0.039 χ^2/NDF : 864.1/27

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

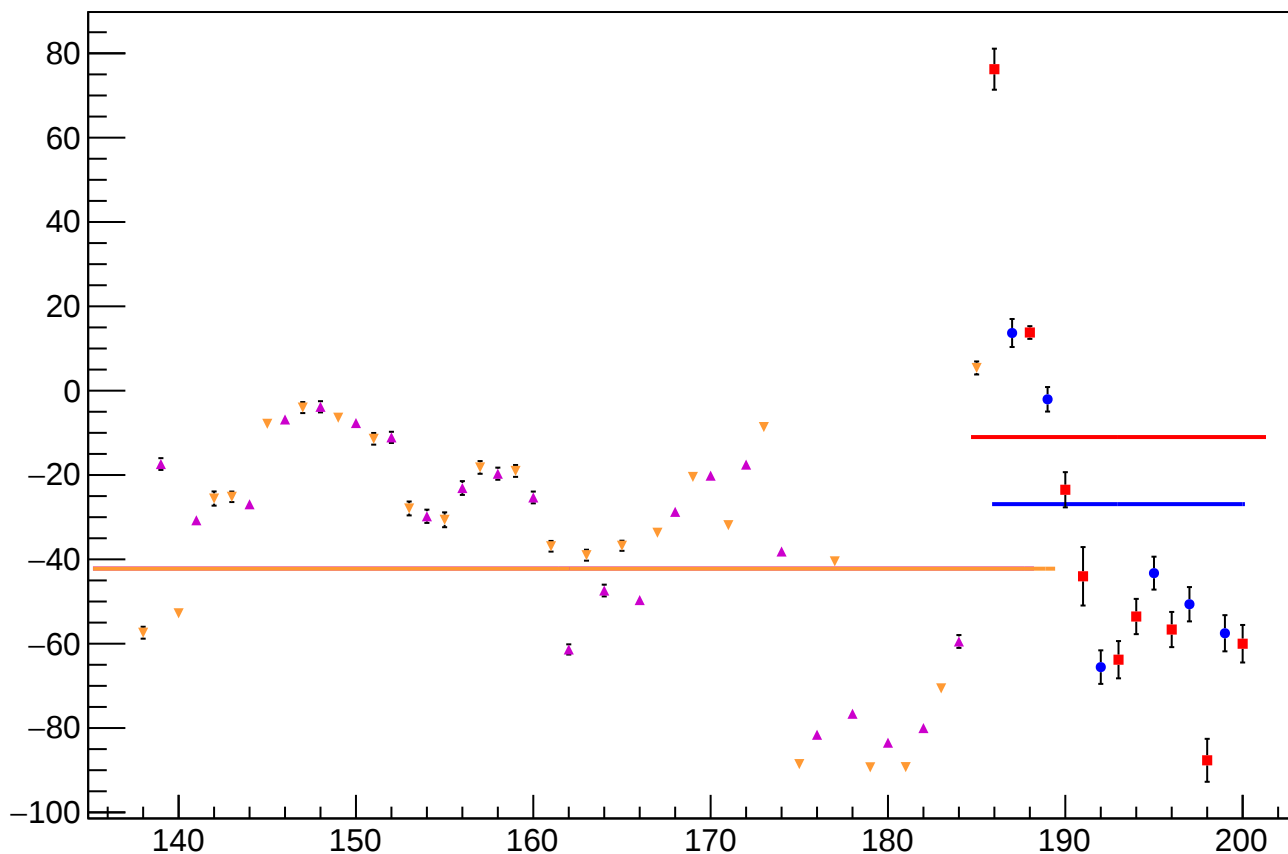
Right: 0.017 ± 0.027 χ^2/NDF : 1342.5/50

In: 0.875 ± 0.012 χ^2/NDF : 1809.1/45

Out: 0.895 ± 0.012 χ^2/NDF : 2177.9/52

All: 0.885 ± 0.008 χ^2/NDF : 3988.4/98

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -26.905 ± 1.487 $\chi^2/\text{NDF}: 419.2/5$

Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$

Right Out: -10.999 ± 1.108 $\chi^2/\text{NDF}: 1336.7/8$

Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$

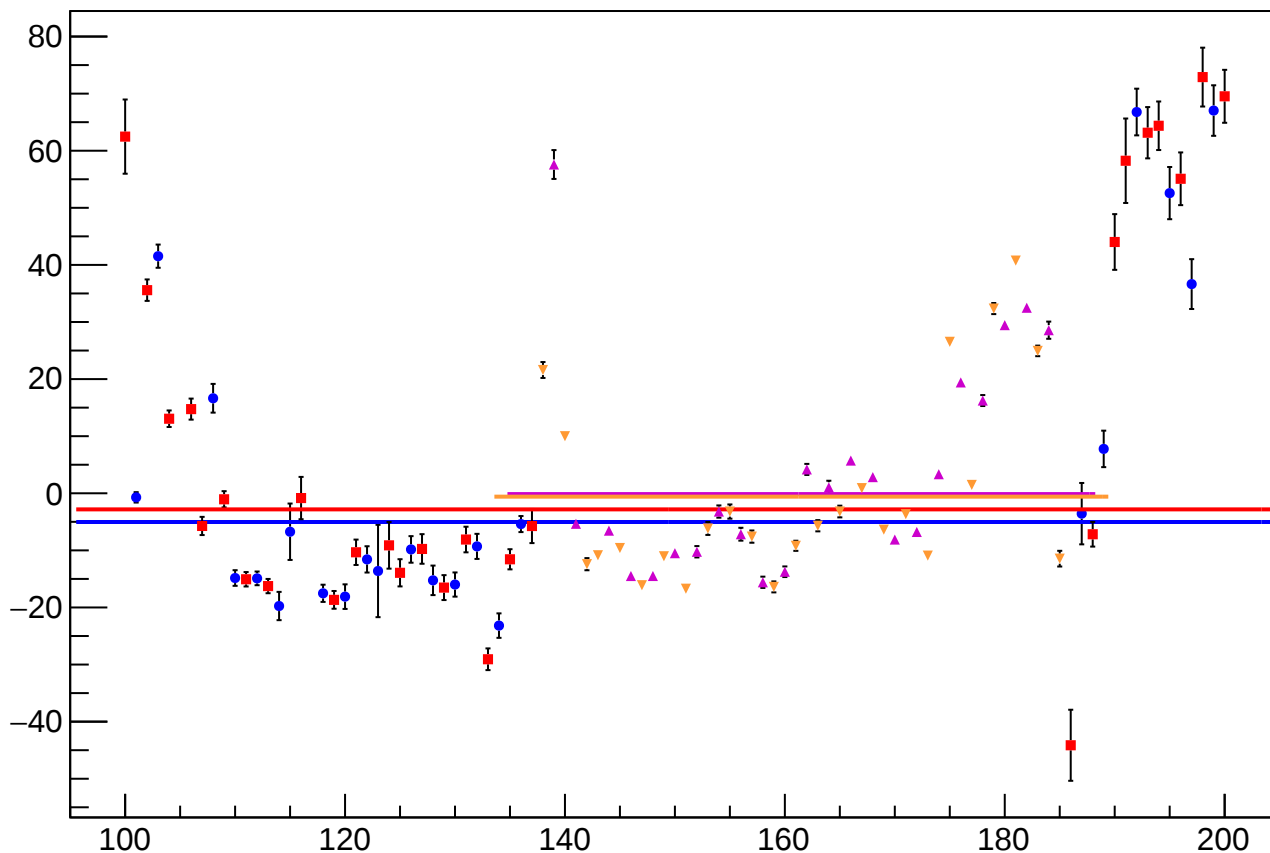
Right: -16.677 ± 0.888 $\chi^2/\text{NDF}: 1829.5/14$

In: -41.828 ± 0.224 $\chi^2/\text{NDF}: 15098.2/28$

Out: -41.007 ± 0.218 $\chi^2/\text{NDF}: 20409.3/33$

All: -41.405 ± 0.156 $\chi^2/\text{NDF}: 35514.4/62$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected

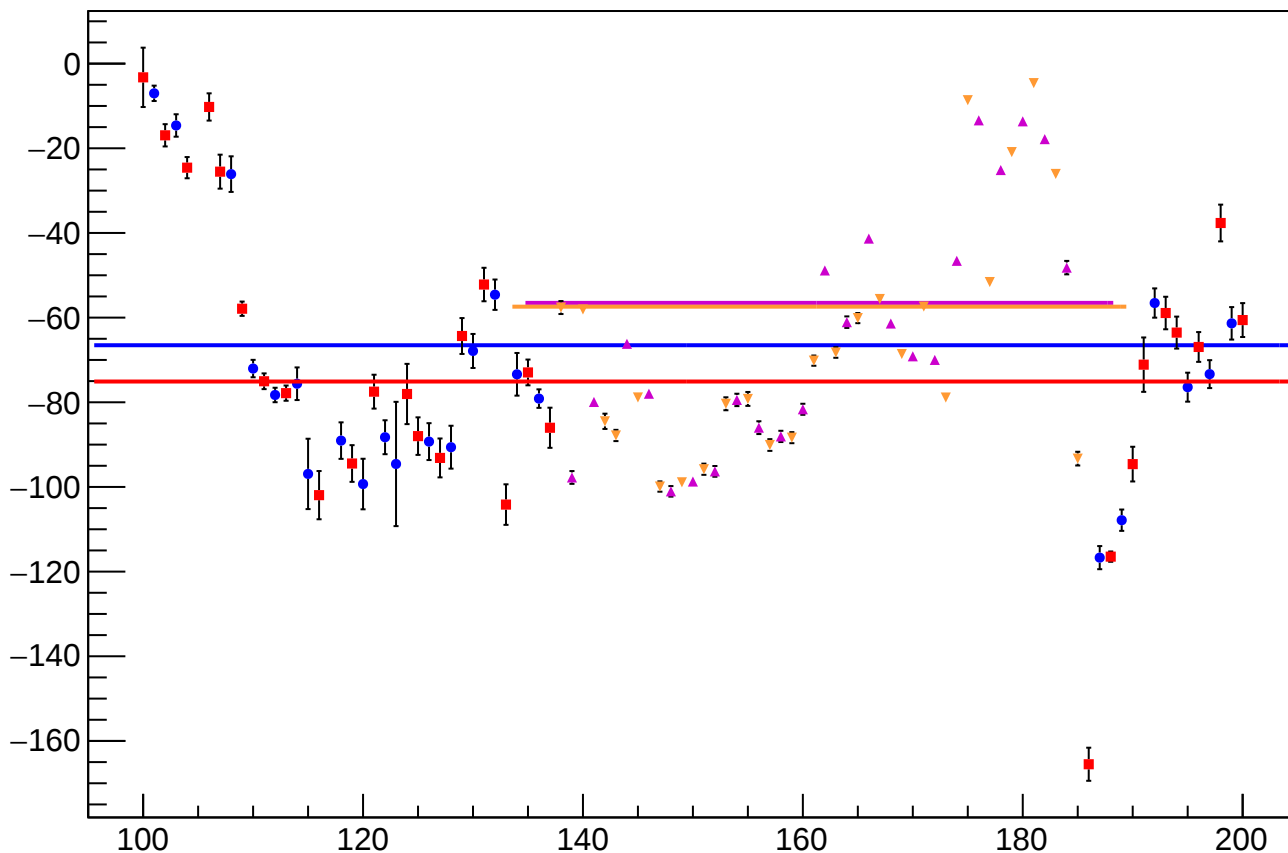


Right In: -5.030 ± 0.418 $\chi^2/\text{NDF}: 1853.0/22$
 Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$
 Right Out: -2.820 ± 0.410 $\chi^2/\text{NDF}: 2642.4/27$
 Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$
 Right: -3.903 ± 0.292 $\chi^2/\text{NDF}: 4509.7/50$
 In: -0.901 ± 0.165 $\chi^2/\text{NDF}: 8831.2/45$
 Out: -0.932 ± 0.160 $\chi^2/\text{NDF}: 11418.5/52$

All: -0.917 ± 0.115 $\chi^2/\text{NDF}: 20249.7/98$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.524 ± 0.644 χ^2/NDF : 2438.9/22

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -75.096 ± 0.562 χ^2/NDF : 3645.3/27

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

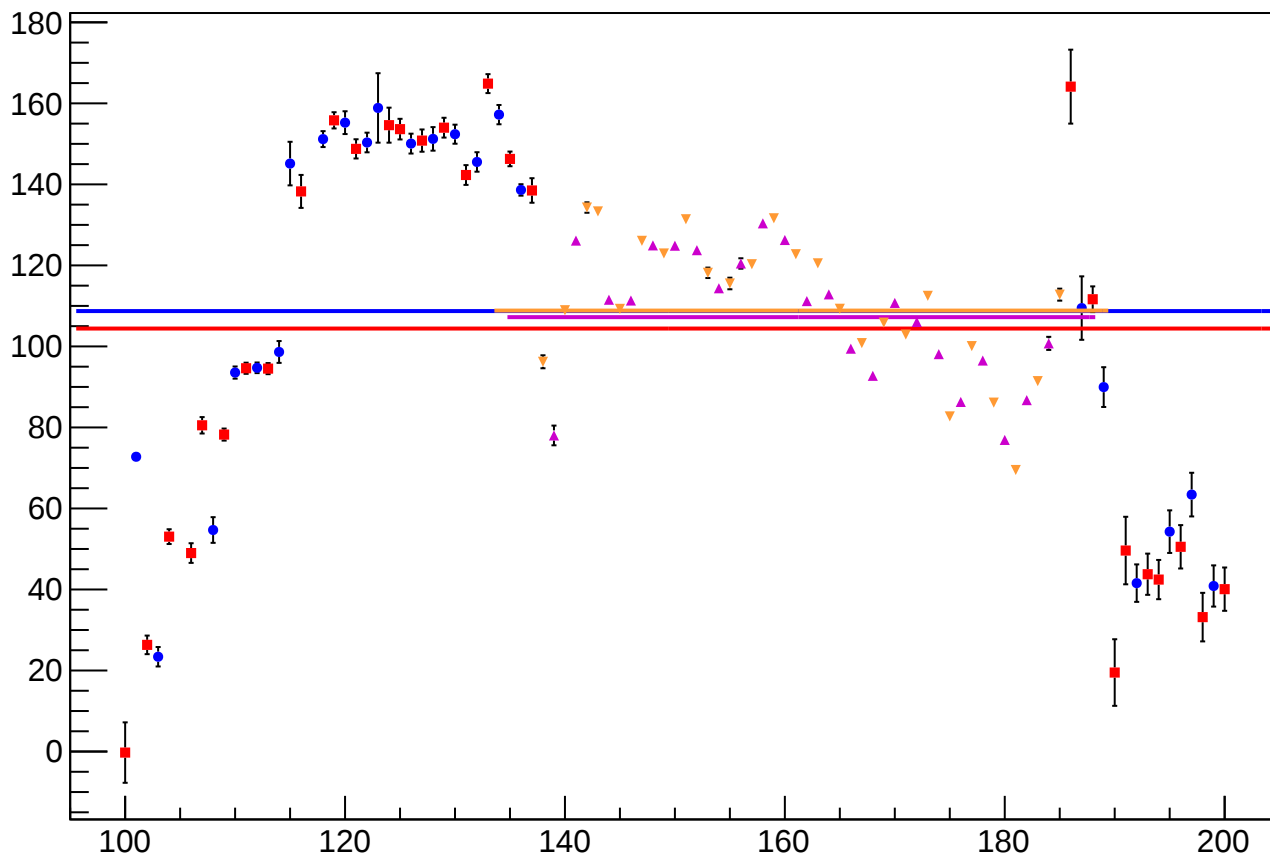
Right: -71.391 ± 0.423 χ^2/NDF : 6184.9/50

In: -57.625 ± 0.214 χ^2/NDF : 19006.2/45

Out: -59.824 ± 0.207 χ^2/NDF : 23105.2/52

All: -58.760 ± 0.149 χ^2/NDF : 42165.8/98

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 108.725 $\pm$ 0.478 χ^2 /NDF: 6469.2/22

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 104.411 $\pm$ 0.471 χ^2 /NDF: 7966.6/27

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

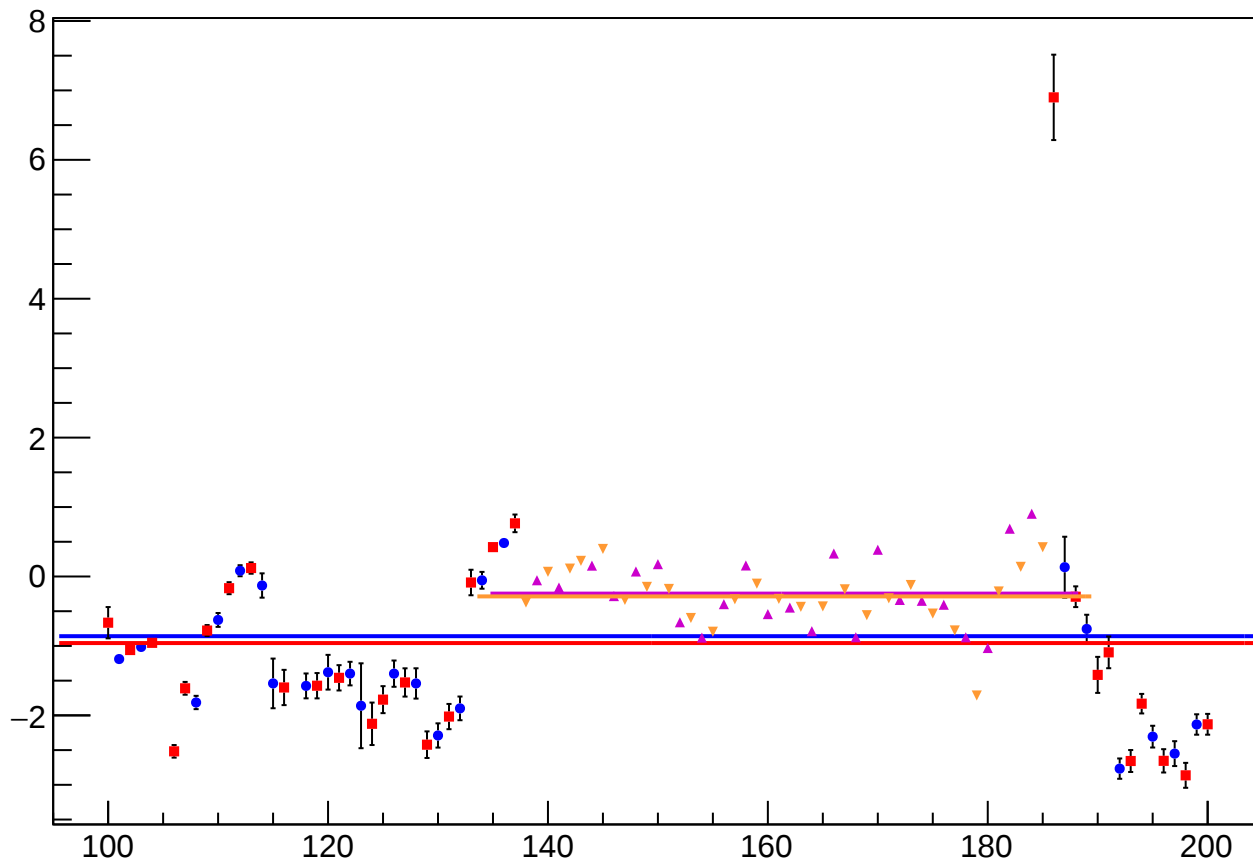
Right: 106.536 $\pm$ 0.335 χ^2 /NDF: 14477.1/50

In: 107.453 $\pm$ 0.186 χ^2 /NDF: 12042.8/45

Out: 108.183 $\pm$ 0.182 χ^2 /NDF: 15442.3/52

All: 107.827 $\pm$ 0.130 χ^2 /NDF: 27493.0/98

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.860 ± 0.024 χ^2/NDF : 1455.7/22

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.959 ± 0.023 χ^2/NDF : 1953.5/27

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

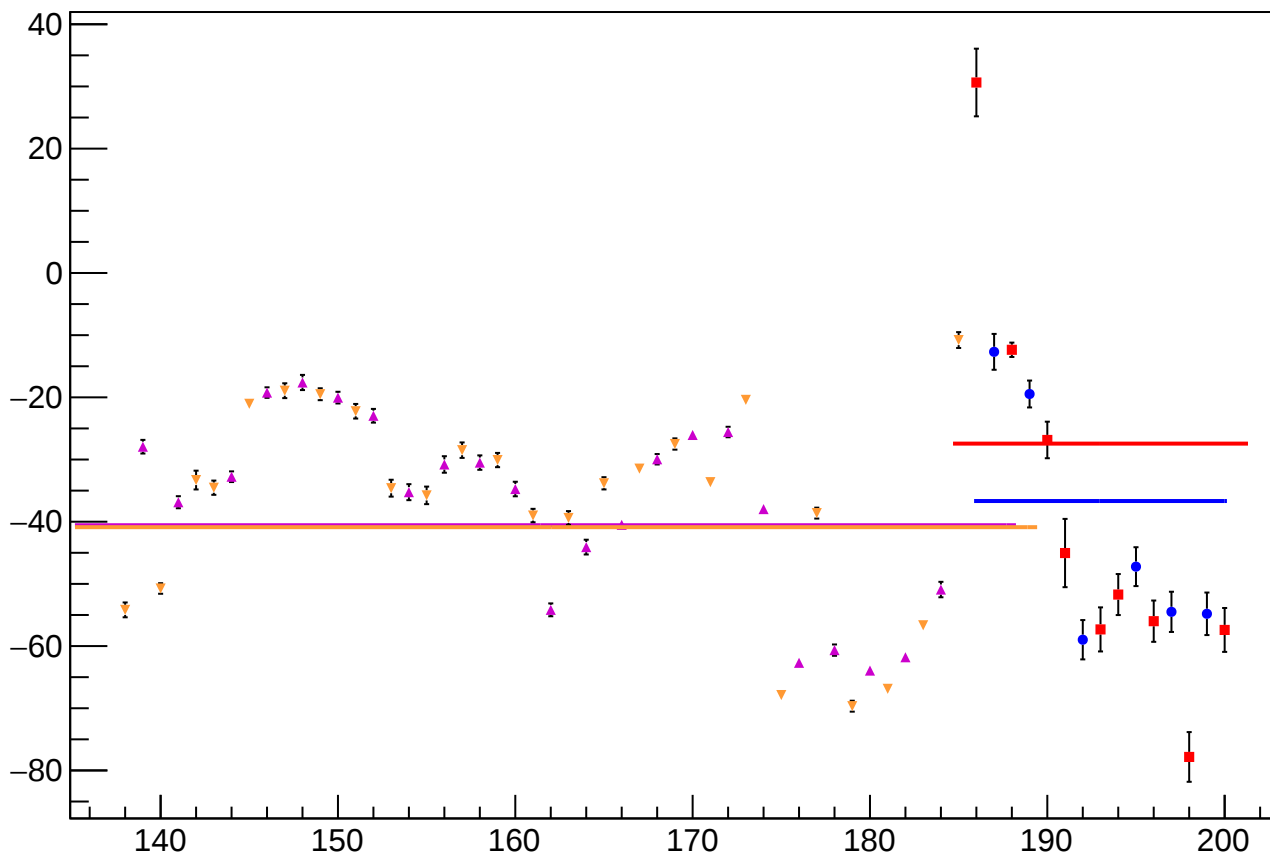
Right: -0.913 ± 0.017 χ^2/NDF : 3418.2/50

In: -0.324 ± 0.009 χ^2/NDF : 4803.6/45

Out: -0.380 ± 0.008 χ^2/NDF : 4769.9/52

All: -0.353 ± 0.006 χ^2/NDF : 9595.2/98

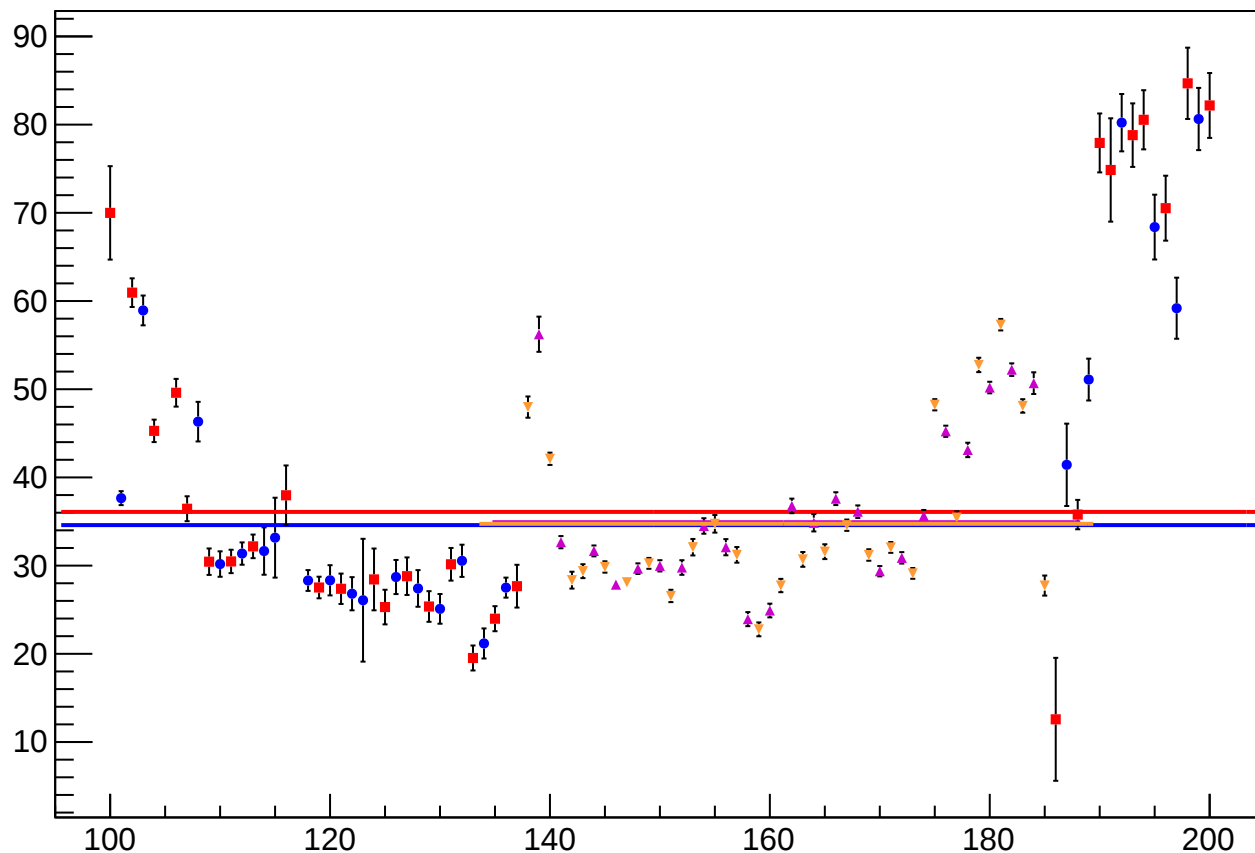
reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -36.673 ± 1.180 χ^2/NDF : 252.3/5
 Left Out: -40.880 ± 0.186 χ^2/NDF : 9123.2/24
 Right Out: -27.440 ± 0.865 χ^2/NDF : 725.0/8
 Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47
 Right: -30.664 ± 0.698 χ^2/NDF : 1017.1/14
 In: -40.469 ± 0.187 χ^2/NDF : 7217.6/28
 Out: -40.285 ± 0.182 χ^2/NDF : 10079.1/33
 All: -40.374 ± 0.131 χ^2/NDF : 17297.2/62

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 34.593+/-0.362 χ^2/NDF : 1039.0/22

Left Out: 34.741+/-0.147 χ^2/NDF : 3693.2/24

Right Out: 36.089+/-0.357 χ^2/NDF : 1751.0/27

Left In: 34.922+/-0.152 χ^2/NDF : 2672.9/22

Left: 34.829+/-0.106 χ^2/NDF : 6366.8/47

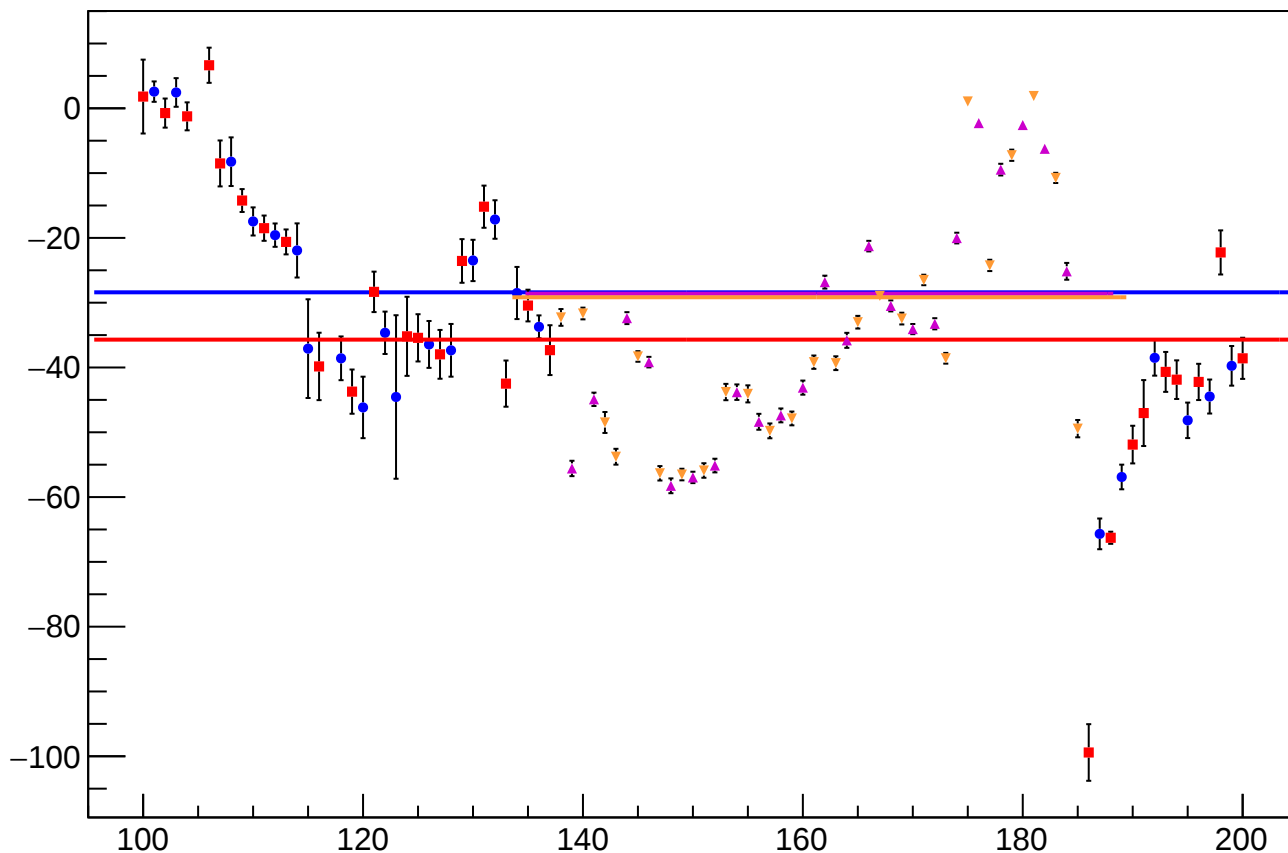
Right: 35.351+/-0.254 χ^2/NDF : 2798.6/50

In: 34.873+/-0.140 χ^2/NDF : 3712.6/45

Out: 34.937+/-0.136 χ^2/NDF : 5456.3/52

All: 34.906+/-0.098 χ^2/NDF : 9169.0/98

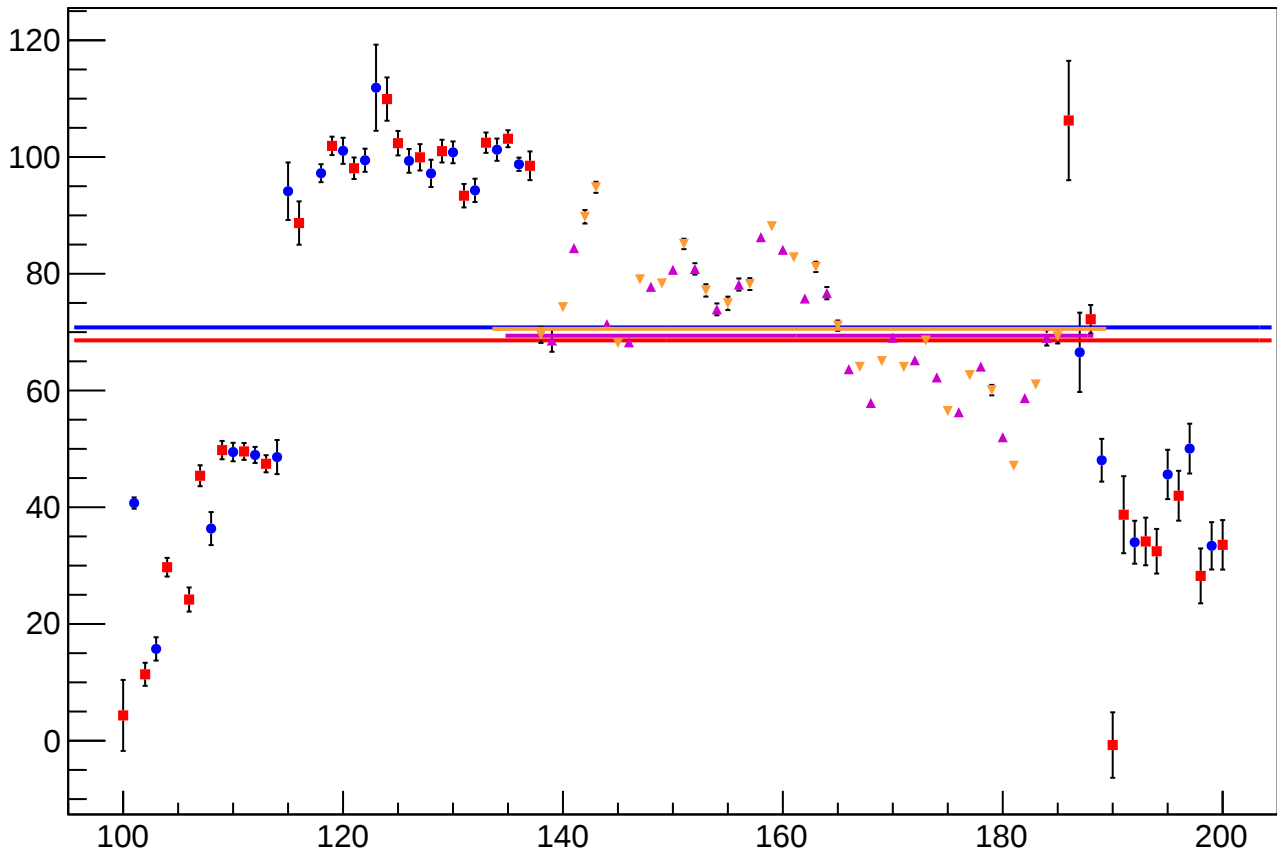
reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -28.399 ± 0.558 $\chi^2/\text{NDF}: 1316.8/22$
 Left Out: -29.163 ± 0.187 $\chi^2/\text{NDF}: 10126.0/24$
 Right Out: -35.700 ± 0.483 $\chi^2/\text{NDF}: 2552.5/27$
 Left In: -28.616 ± 0.190 $\chi^2/\text{NDF}: 9040.9/22$

Left: -28.894 ± 0.133 $\chi^2/\text{NDF}: 19171.1/47$
 Right: -32.577 ± 0.365 $\chi^2/\text{NDF}: 3967.3/50$
 In: -28.594 ± 0.180 $\chi^2/\text{NDF}: 10357.9/45$
 Out: -30.017 ± 0.174 $\chi^2/\text{NDF}: 12838.1/52$
 All: -29.327 ± 0.125 $\chi^2/\text{NDF}: 23228.2/98$

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 70.810 $\pm$ 0.416 χ^2 /NDF: 4971.7/22

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF:4589.1/24

Right Out: 68.589 $\pm$ 0.414 χ^2 /NDF: 6050.8/27

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

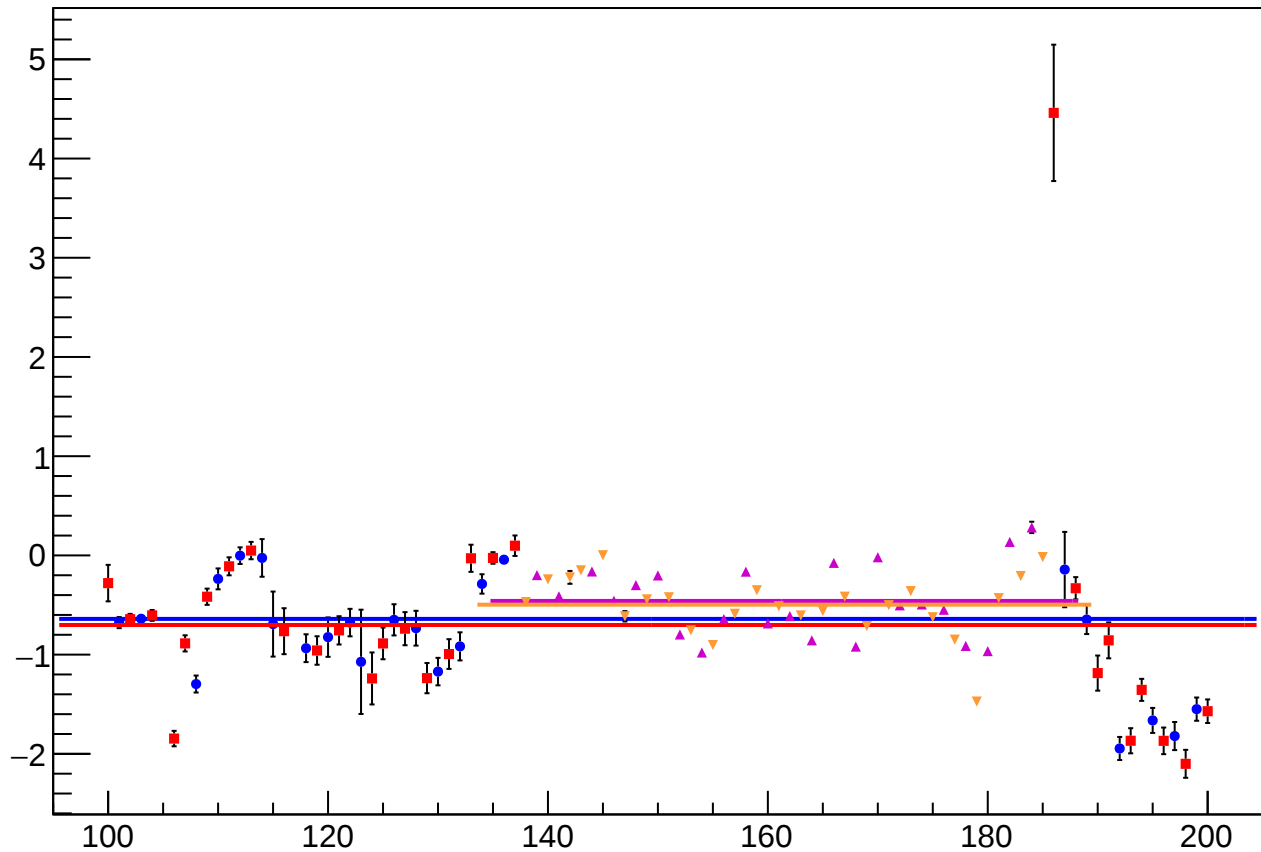
Right: 69.694 $\pm$ 0.294 χ^2 /NDF: 11036.8/50

In: 69.591 $\pm$ 0.158 χ^2 /NDF:8303.6/45

Out: 70.289 $\pm$ 0.154 χ^2 /NDF:10659.4/52

All: 69.947 $\pm$ 0.110 χ^2 /NDF: 18973.1/98

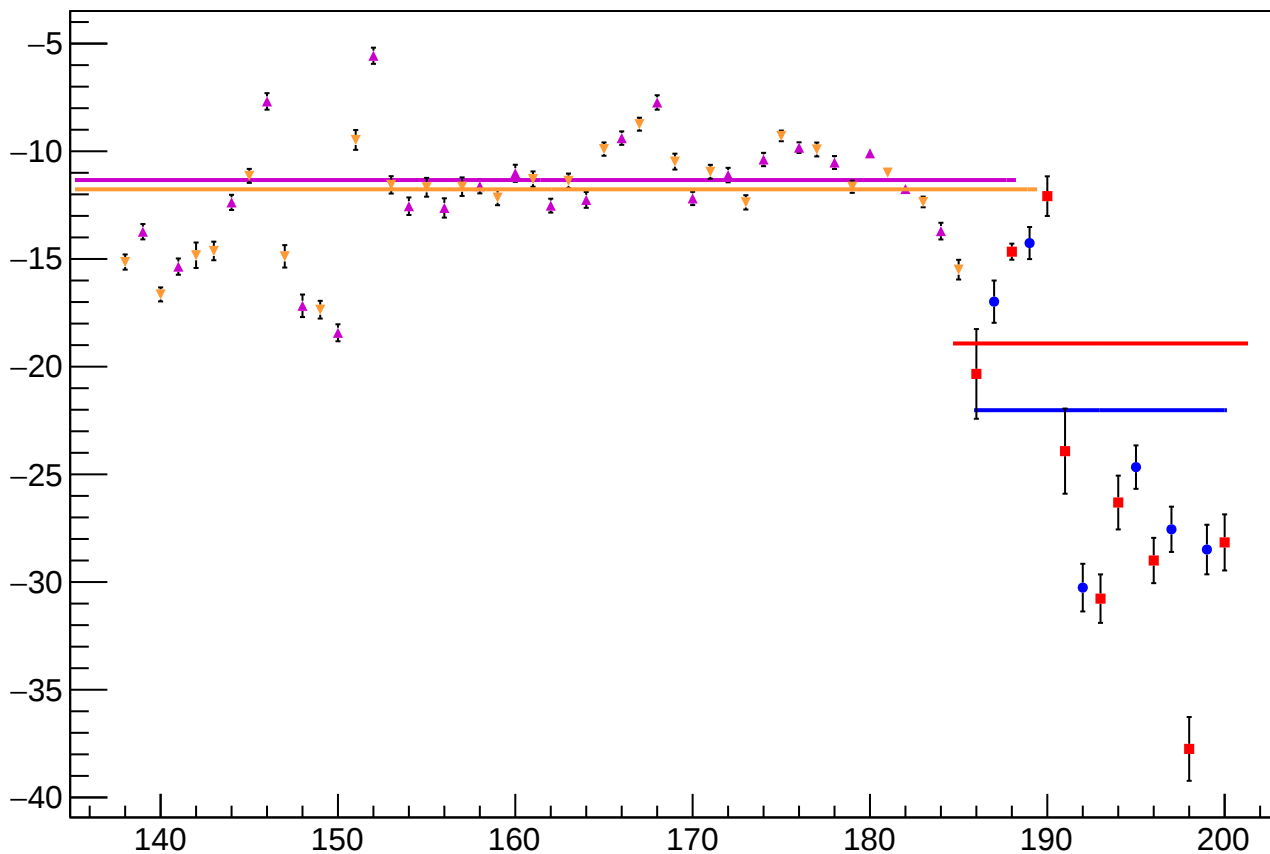
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.640 ± 0.021 χ^2/NDF : 665.6/22
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.701 ± 0.019 χ^2/NDF : 1025.1/27
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.673 ± 0.014 χ^2/NDF : 1695.4/50
 In: -0.481 ± 0.007 χ^2/NDF : 2690.7/45
 Out: -0.524 ± 0.007 χ^2/NDF : 2570.4/52
 All: -0.503 ± 0.005 χ^2/NDF : 5279.0/98

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -22.021 ± 0.398 χ^2/NDF : 256.4/5
 Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24
 Right Out: -18.923 ± 0.286 χ^2/NDF : 642.8/8
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47
 Right: -19.974 ± 0.232 χ^2/NDF : 939.2/14
 In: -11.639 ± 0.067 χ^2/NDF : 2224.8/28
 Out: -12.137 ± 0.065 χ^2/NDF : 2259.4/33

All: -11.896 ± 0.047 χ^2/NDF : 4512.6/62

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.942 ± 0.144 $\chi^2/\text{NDF}: 1809.2/22$

Left Out: -30.212 ± 0.054 $\chi^2/\text{NDF}: 734.0/24$

Right Out: -35.270 ± 0.139 $\chi^2/\text{NDF}: 2376.1/27$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

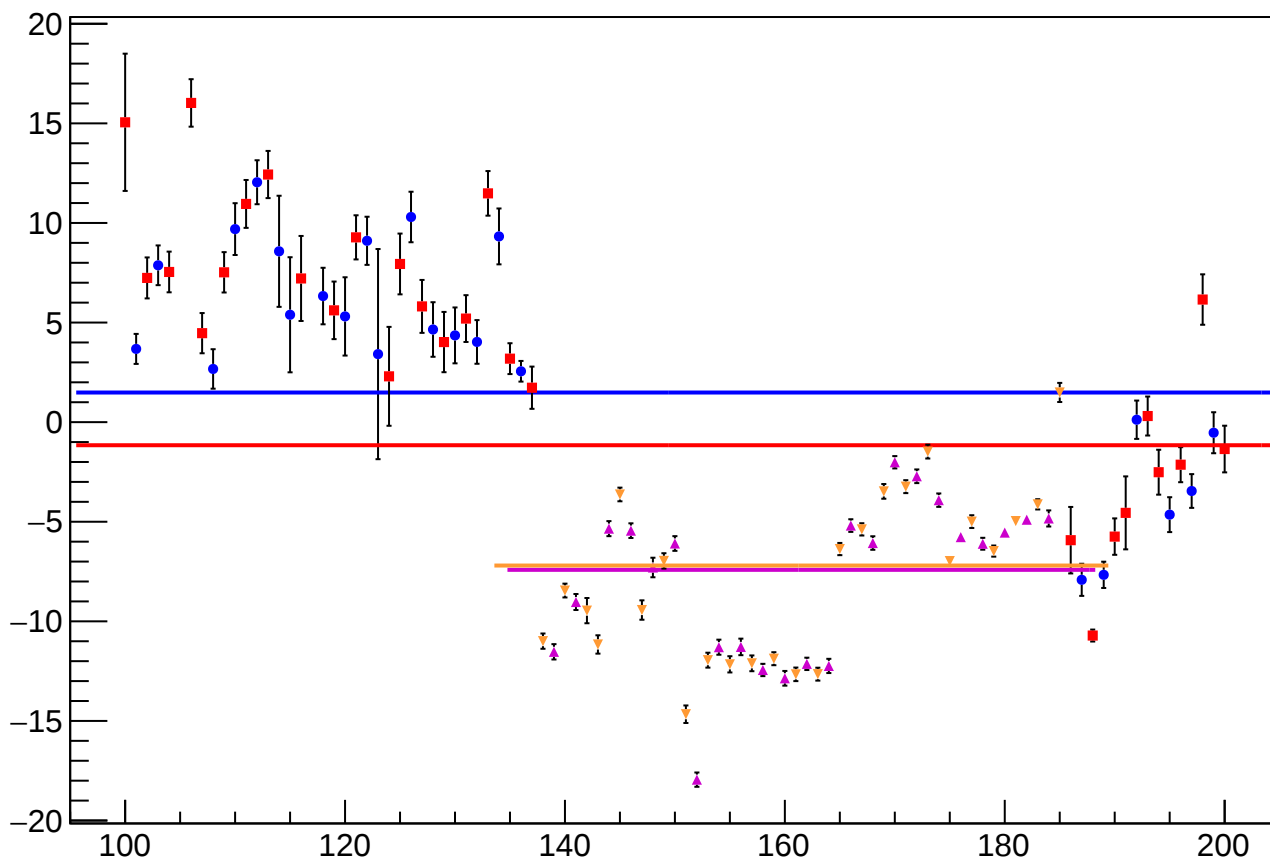
Right: -35.112 ± 0.100 $\chi^2/\text{NDF}: 4188.0/50$

In: -30.746 ± 0.052 $\chi^2/\text{NDF}: 4008.5/45$

Out: -30.871 ± 0.050 $\chi^2/\text{NDF}: 4259.9/52$

All: -30.811 ± 0.036 $\chi^2/\text{NDF}: 8271.5/98$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.487 ± 0.212 $\chi^2/\text{NDF}: 761.9/22$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -1.159 ± 0.181 $\chi^2/\text{NDF}: 2193.3/27$
 Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$
 Right: -0.047 ± 0.138 $\chi^2/\text{NDF}: 3045.3/50$
 In: -6.589 ± 0.065 $\chi^2/\text{NDF}: 5481.5/45$
 Out: -6.471 ± 0.063 $\chi^2/\text{NDF}: 6214.3/52$
 All: -6.528 ± 0.045 $\chi^2/\text{NDF}: 11697.6/98$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.640 ± 0.164 χ^2/NDF : 2485.6/22

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -3.709 ± 0.163 χ^2/NDF : 2867.2/27

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

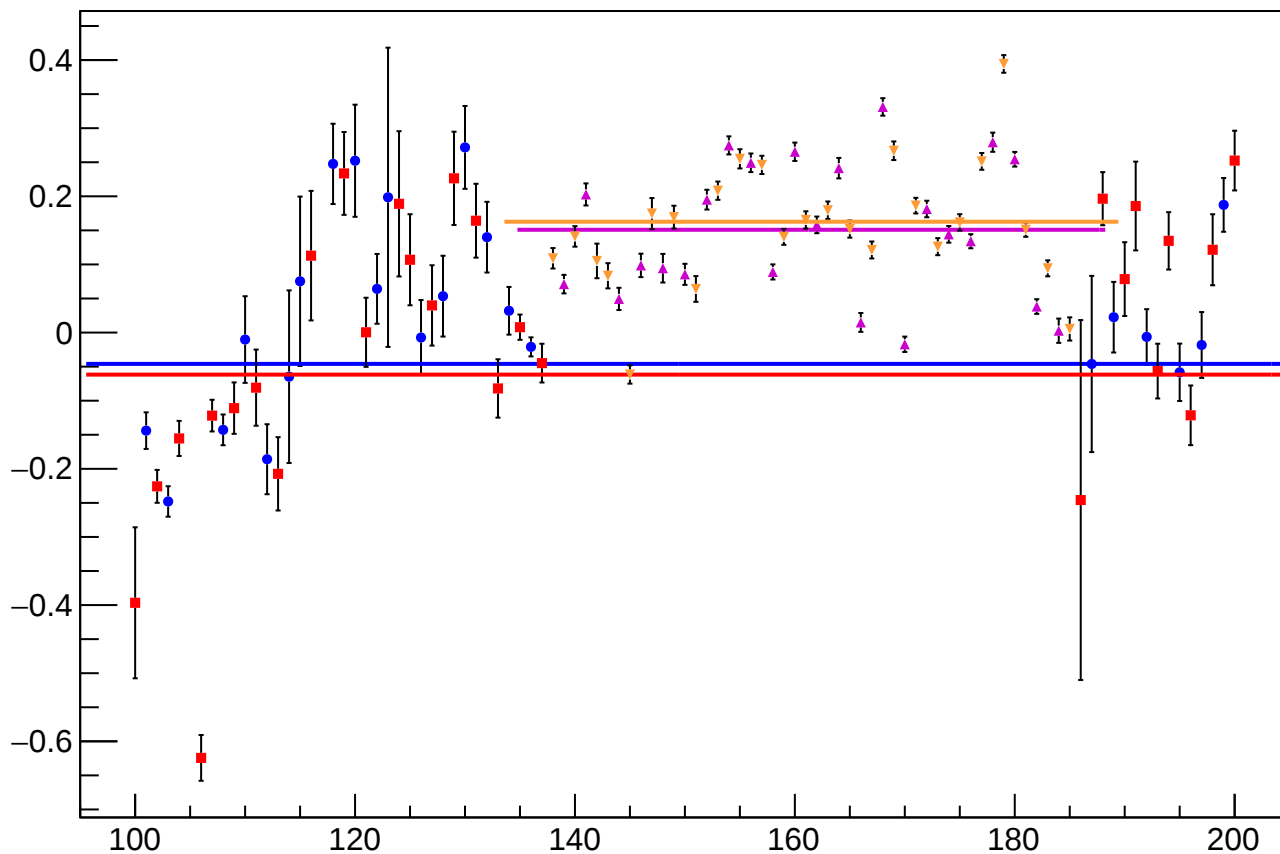
Right: -4.170 ± 0.116 χ^2/NDF : 5369.0/50

In: -8.374 ± 0.058 χ^2/NDF : 4609.8/45

Out: -8.336 ± 0.056 χ^2/NDF : 4666.7/52

All: -8.355 ± 0.040 χ^2/NDF : 9276.7/98

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.046 ± 0.008 χ^2/NDF : 255.6/22

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.062 ± 0.007 χ^2/NDF : 610.5/27

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

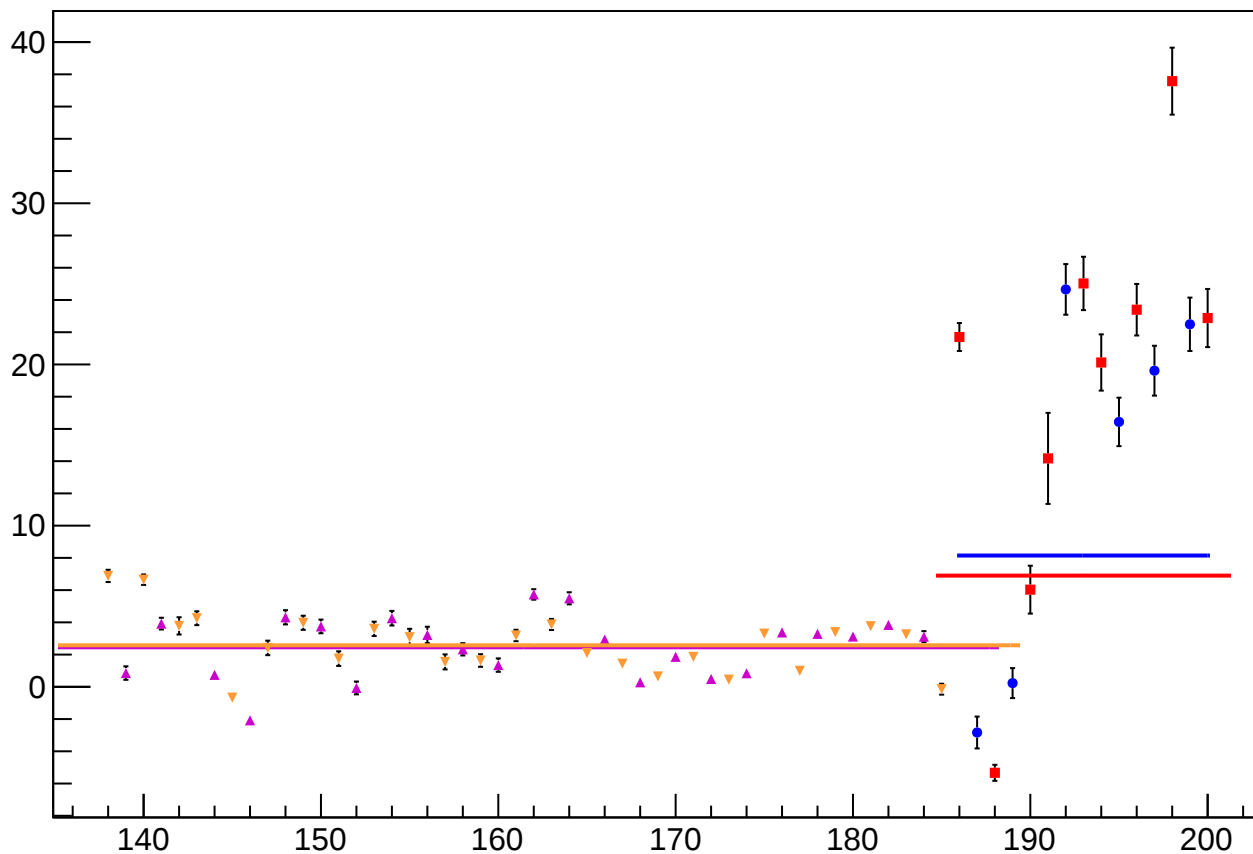
Right: -0.054 ± 0.005 χ^2/NDF : 868.2/50

In: 0.128 ± 0.003 χ^2/NDF : 2119.5/45

Out: 0.136 ± 0.003 χ^2/NDF : 2422.9/52

All: 0.132 ± 0.002 χ^2/NDF : 4547.1/98

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.145+/-0.512 χ^2/NDF : 466.7/5

Left Out: 2.577+/-0.058 χ^2/NDF :867.5/24

Right Out: 6.899+/-0.363 χ^2/NDF : 1486.7/8

Left In: 2.452+/-0.059 χ^2/NDF :871.3/22

Left: 2.516+/-0.042 χ^2/NDF : 1741.0/47

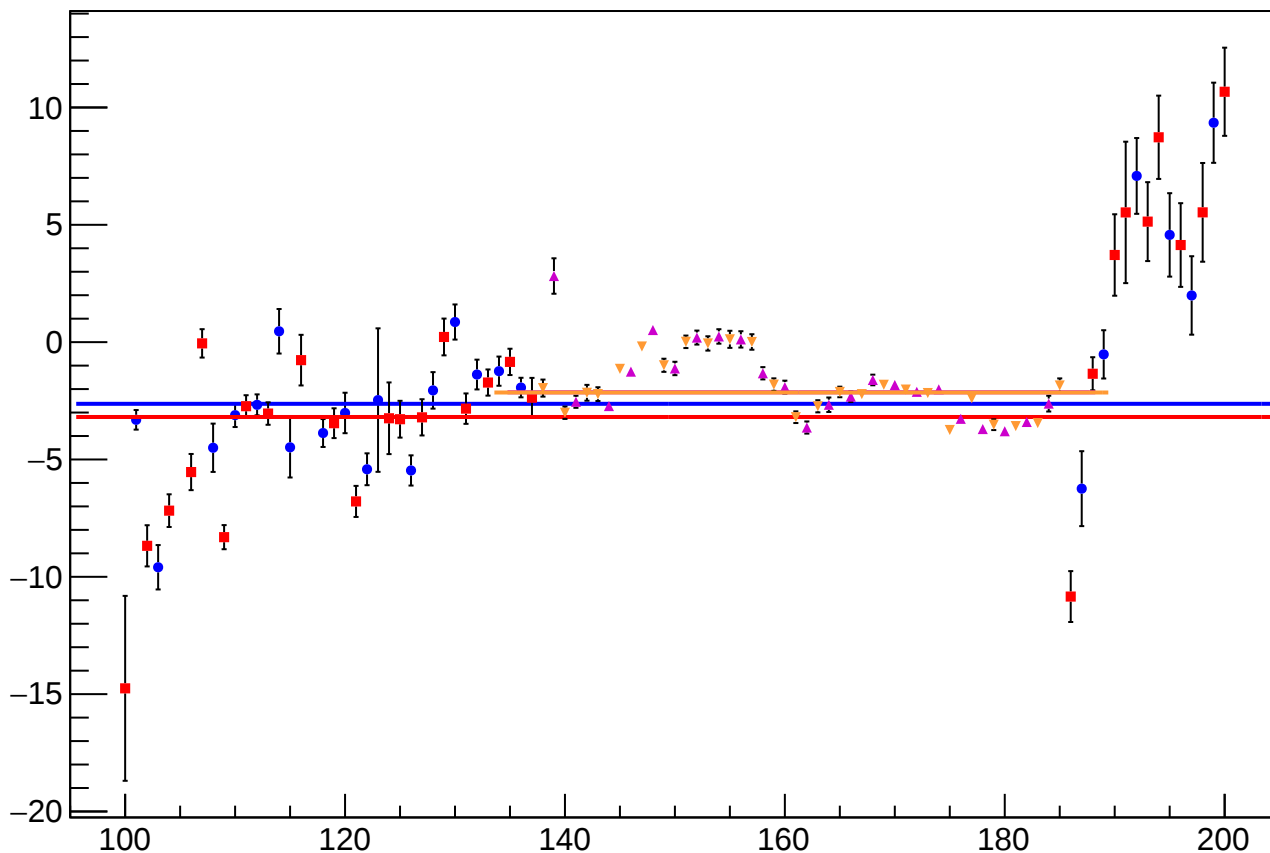
Right: 7.316+/-0.296 χ^2/NDF : 1957.3/14

In: 2.528+/-0.059 χ^2/NDF :1459.8/28

Out: 2.685+/-0.058 χ^2/NDF :2492.5/33

All: 2.608+/-0.041 χ^2/NDF : 3955.9/62

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.628 ± 0.150 $\chi^2/\text{NDF}: 267.3/22$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -3.189 ± 0.147 $\chi^2/\text{NDF}: 535.4/27$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

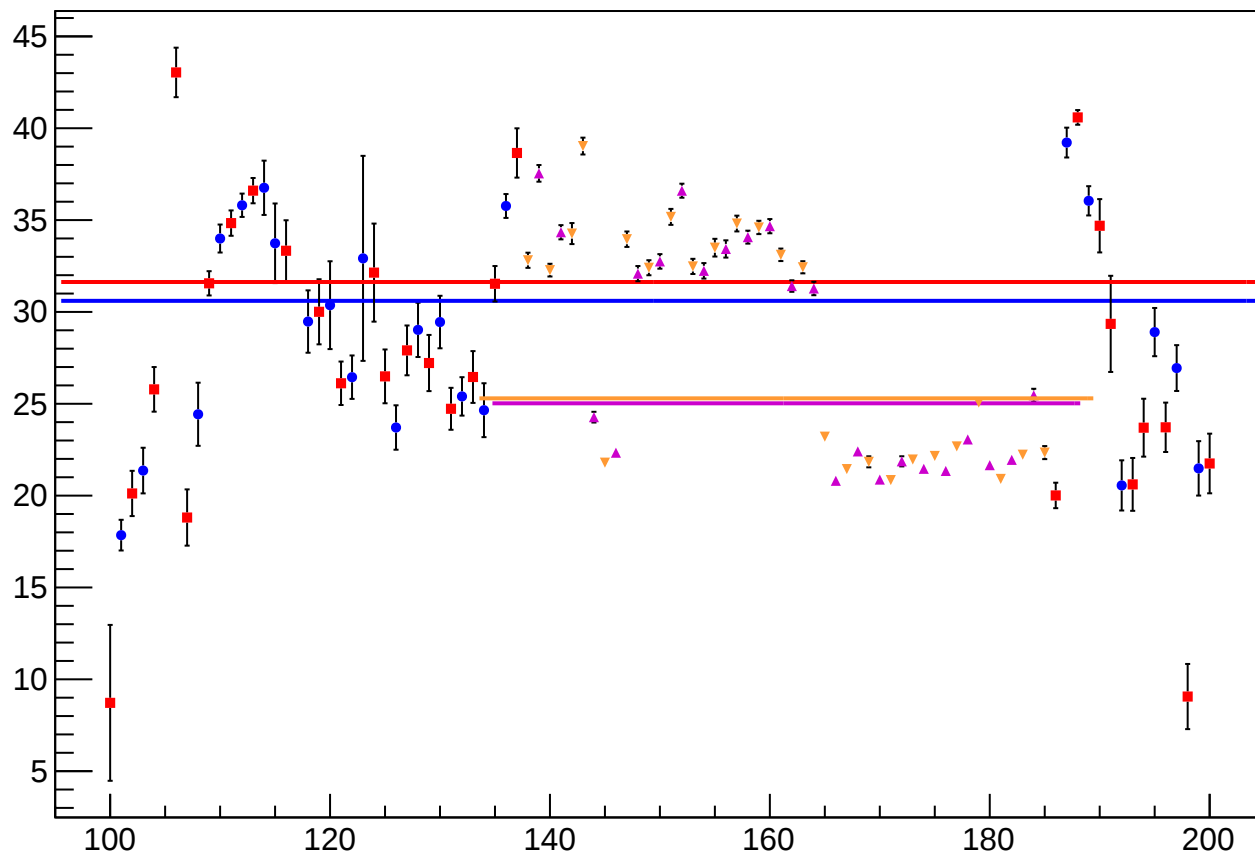
Right: -2.915 ± 0.105 $\chi^2/\text{NDF}: 809.8/50$

In: -2.183 ± 0.046 $\chi^2/\text{NDF}: 968.2/45$

Out: -2.245 ± 0.045 $\chi^2/\text{NDF}: 1154.6/52$

All: -2.215 ± 0.032 $\chi^2/\text{NDF}: 2123.8/98$

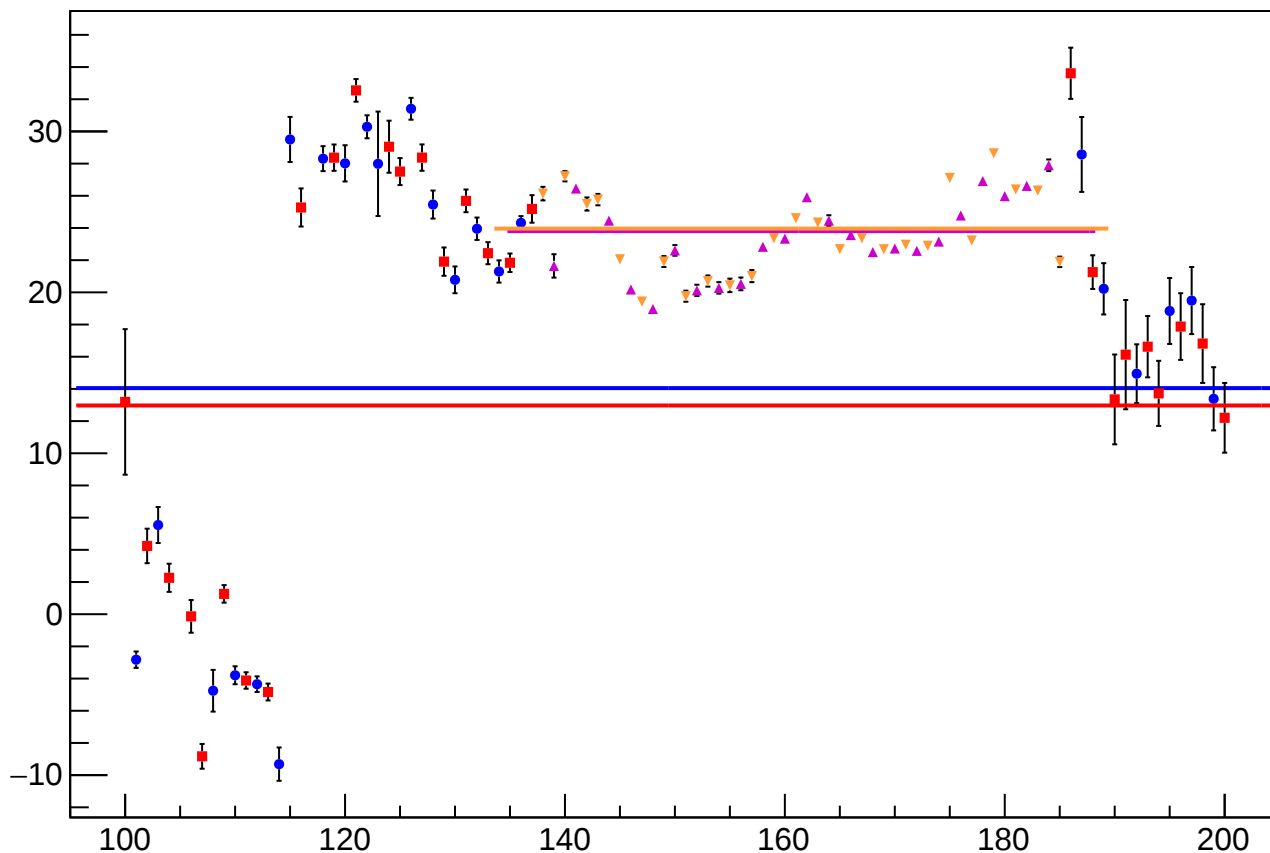
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.604 $\pm$ 0.228 χ^2 /NDF: 821.1/22
 Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24
 Right Out: 31.630 $\pm$ 0.197 χ^2 /NDF: 1589.4/27
 Left In: 25.025 $\pm$ 0.060 χ^2 /NDF:7610.5/22

Left: 25.162 $\pm$ 0.042 χ^2 /NDF: 15893.3/47
 Right: 31.192 $\pm$ 0.149 χ^2 /NDF: 2422.1/50
 In: 25.382 $\pm$ 0.058 χ^2 /NDF:8992.3/45
 Out: 25.816 $\pm$ 0.056 χ^2 /NDF:10812.9/52
 All: 25.604 $\pm$ 0.040 χ^2 /NDF: 19834.1/98

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.049 $\pm$ 0.169 χ^2 /NDF: 7343.0/22

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 12.970 $\pm$ 0.167 χ^2 /NDF: 7207.5/27

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

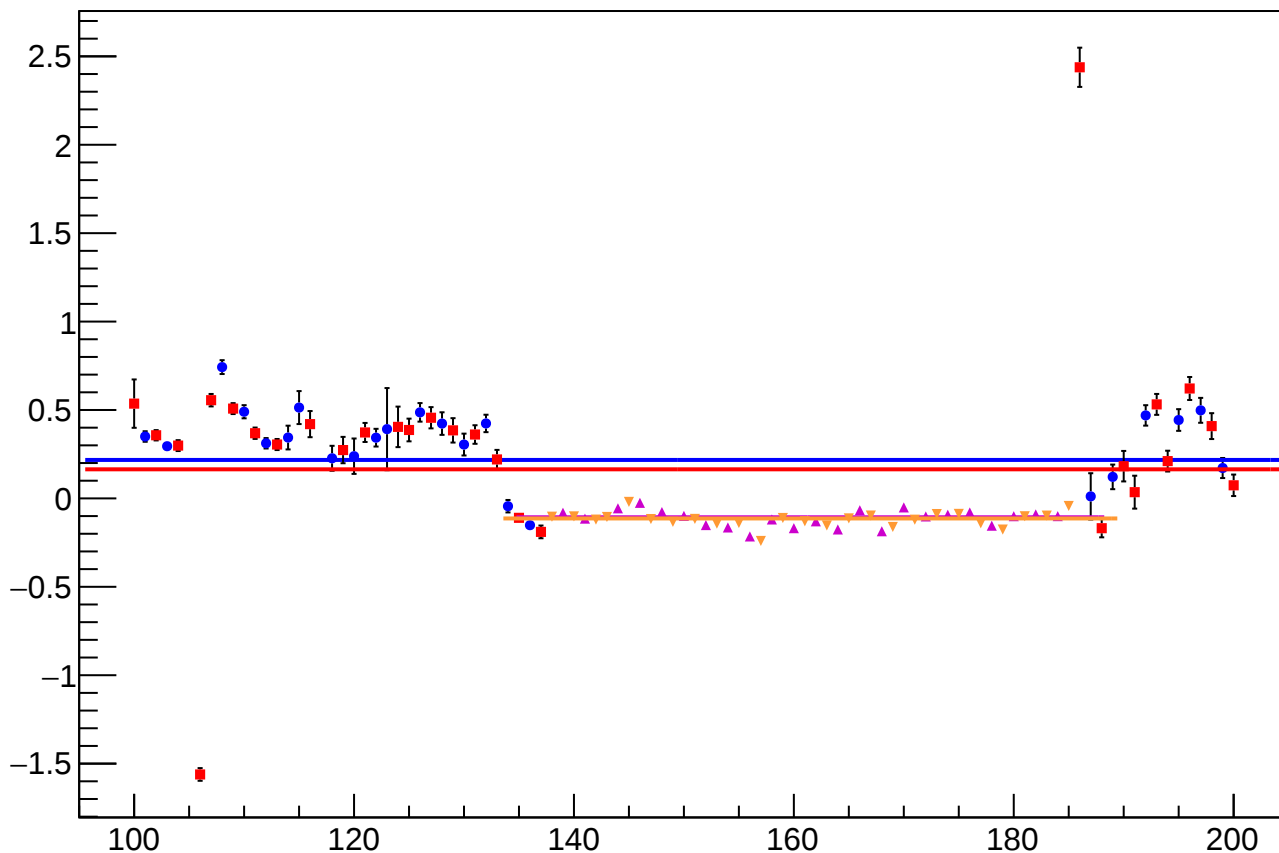
Right: 13.505 $\pm$ 0.119 χ^2 /NDF: 14571.1/50

In: 22.900 $\pm$ 0.051 χ^2 /NDF:12127.5/45

Out: 22.955 $\pm$ 0.051 χ^2 /NDF:13046.8/52

All: 22.928 $\pm$ 0.036 χ^2 /NDF: 25174.9/98

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.217 $\pm$ 0.009 χ^2 /NDF: 901.8/22

Left Out: -0.113 $\pm$ 0.002 χ^2 /NDF: 291.0/24

Right Out: 0.164 $\pm$ 0.009 χ^2 /NDF: 3586.6/27

Left In: -0.107 $\pm$ 0.002 χ^2 /NDF: 321.8/22

Left: -0.110 $\pm$ 0.002 χ^2 /NDF: 616.6/47

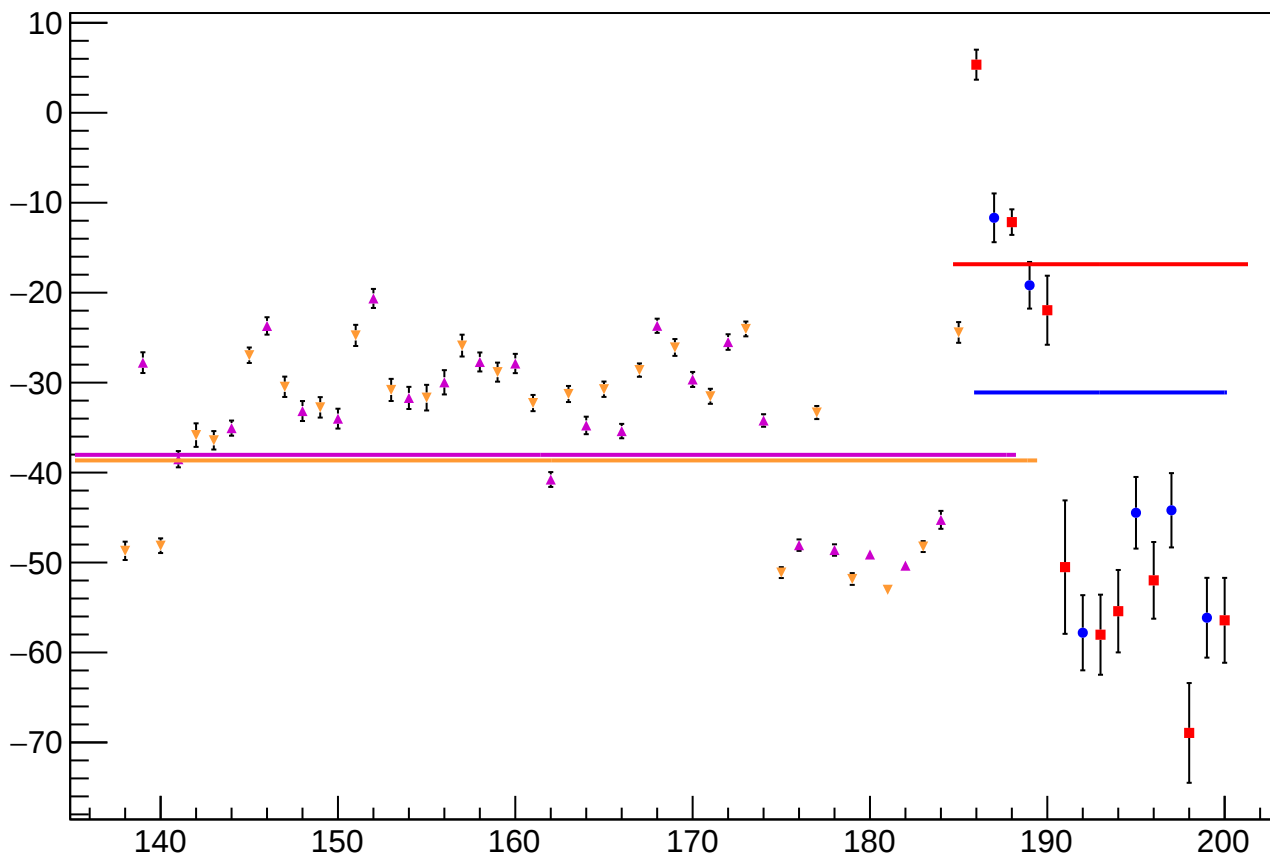
Right: 0.190 $\pm$ 0.006 χ^2 /NDF: 4507.0/50

In: -0.084 $\pm$ 0.002 χ^2 /NDF: 2462.5/45

Out: -0.093 $\pm$ 0.002 χ^2 /NDF: 4859.9/52

All: -0.088 $\pm$ 0.002 χ^2 /NDF: 7330.1/98

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected

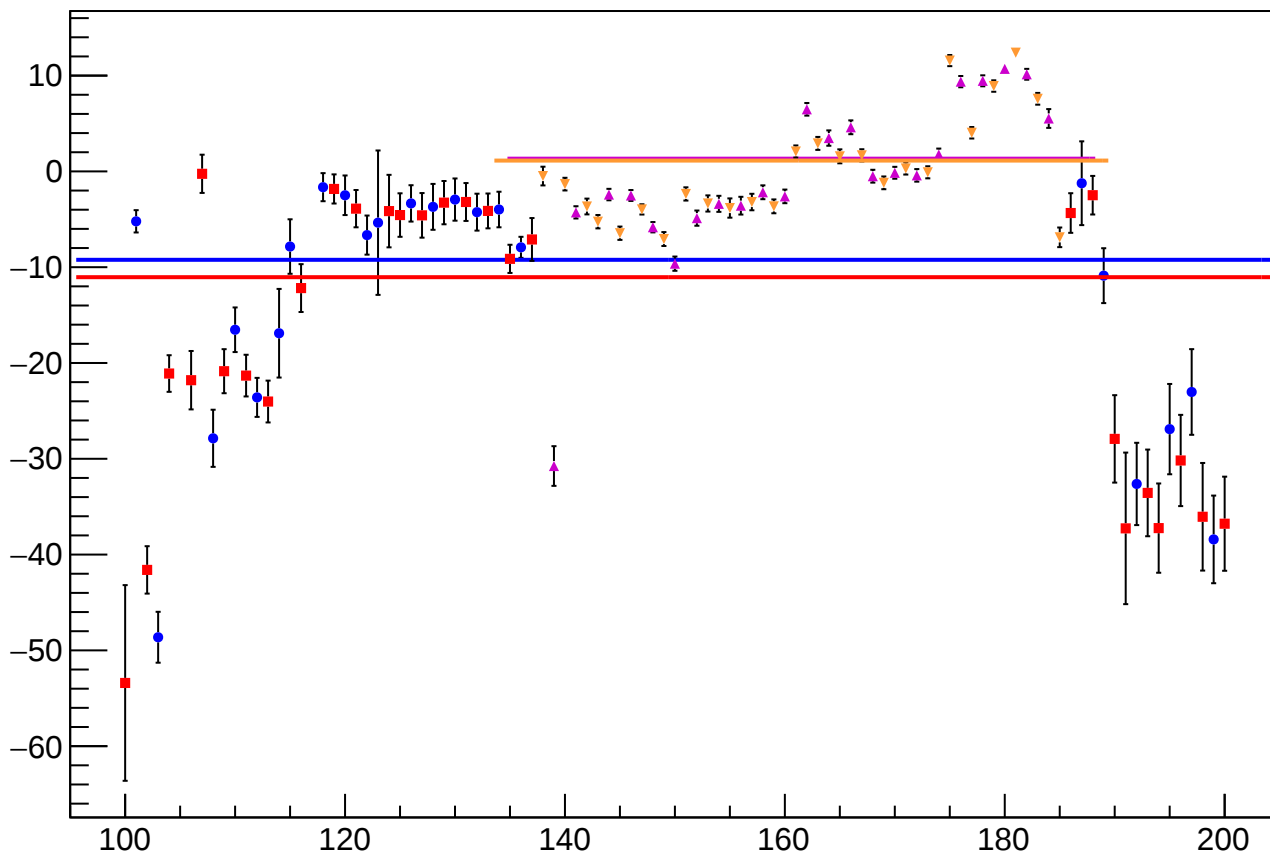


Right In: -31.093 ± 1.394 $\chi^2/\text{NDF}: 166.5/5$
 Left Out: -38.650 ± 0.169 $\chi^2/\text{NDF}: 4077.2/24$
 Right Out: -16.837 ± 0.924 $\chi^2/\text{NDF}: 593.0/8$
 Left In: -38.027 ± 0.173 $\chi^2/\text{NDF}: 3091.9/22$

Left: -38.346 ± 0.121 $\chi^2/\text{NDF}: 7175.7/47$
 Right: -21.190 ± 0.770 $\chi^2/\text{NDF}: 832.1/14$
 In: -37.922 ± 0.172 $\chi^2/\text{NDF}: 3282.8/28$
 Out: -37.943 ± 0.166 $\chi^2/\text{NDF}: 5209.1/33$

All: -37.933 ± 0.120 $\chi^2/\text{NDF}: 8491.9/62$

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.229 ± 0.449 $\chi^2/\text{NDF}: 509.5/22$

Left Out: 1.130 ± 0.136 $\chi^2/\text{NDF}: 1799.3/24$

Right Out: -11.043 ± 0.452 $\chi^2/\text{NDF}: 604.4/27$

Left In: 1.329 ± 0.140 $\chi^2/\text{NDF}: 2048.0/22$

Left: 1.227 ± 0.097 $\chi^2/\text{NDF}: 3848.4/47$

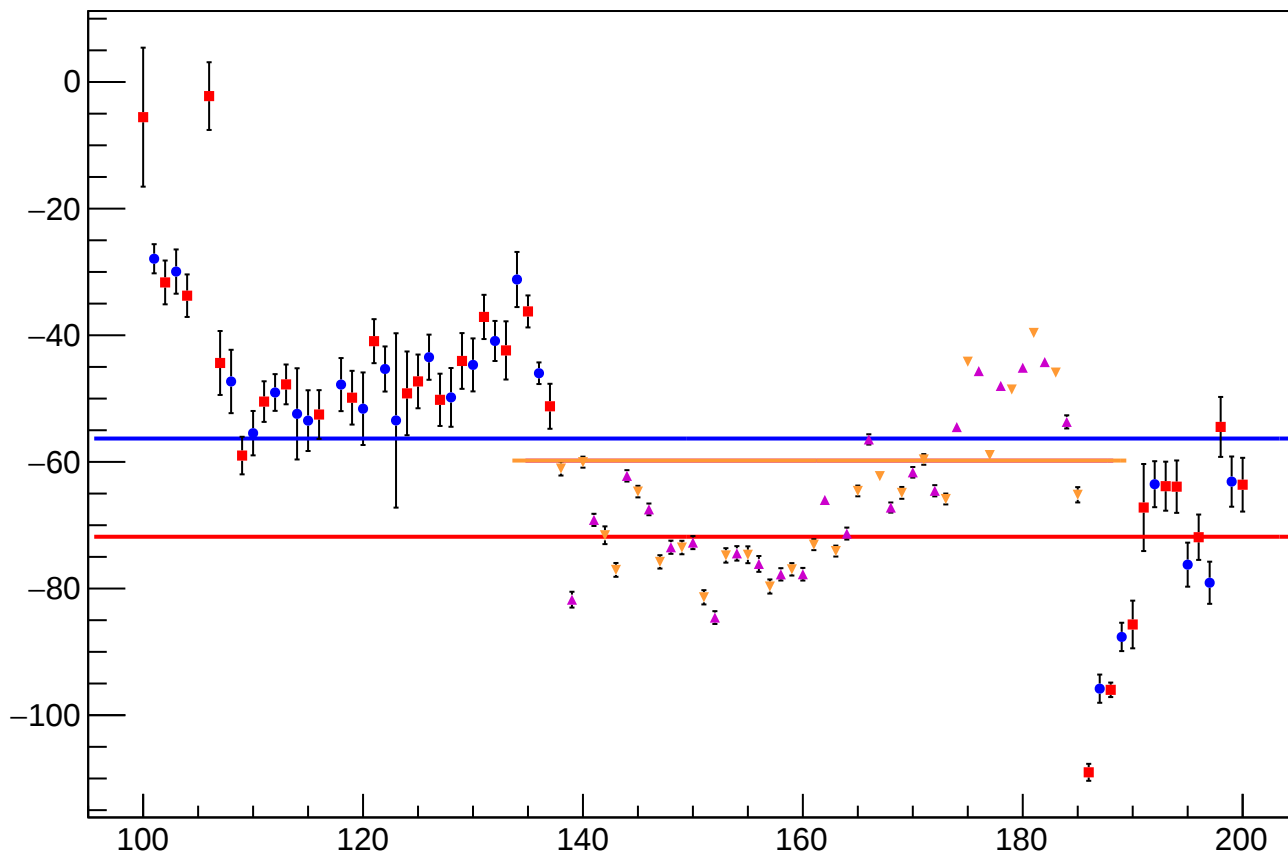
Right: -10.130 ± 0.318 $\chi^2/\text{NDF}: 1122.0/50$

In: 0.395 ± 0.134 $\chi^2/\text{NDF}: 3062.0/45$

Out: 0.120 ± 0.130 $\chi^2/\text{NDF}: 3068.7/52$

All: 0.254 ± 0.093 $\chi^2/\text{NDF}: 6132.9/98$

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -56.308 ± 0.684 χ^2/NDF : 946.7/22

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -71.820 ± 0.573 χ^2/NDF : 2492.2/27

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

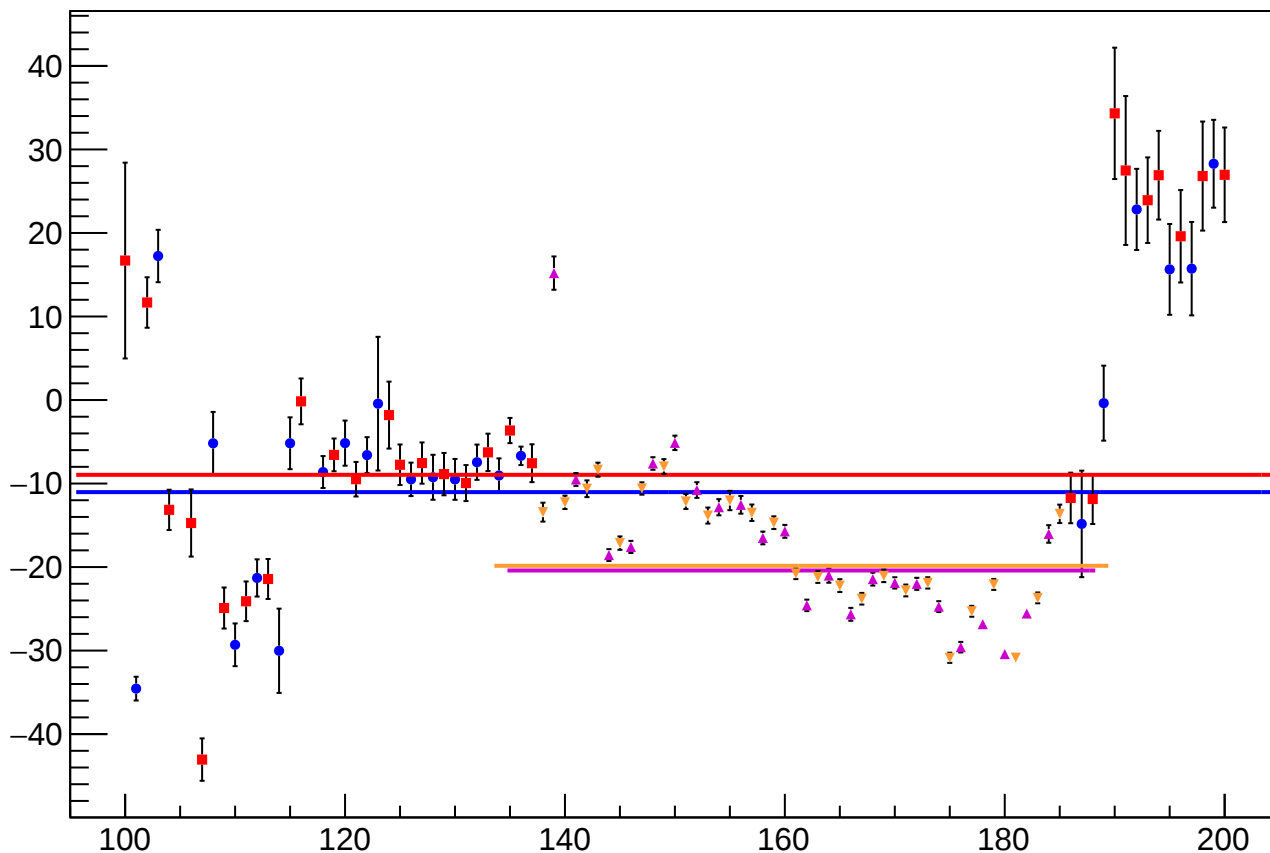
Right: -65.421 ± 0.439 χ^2/NDF : 3740.8/50

In: -59.592 ± 0.168 χ^2/NDF : 6188.7/45

Out: -60.762 ± 0.163 χ^2/NDF : 8734.6/52

All: -60.194 ± 0.117 χ^2/NDF : 14948.3/98

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -11.028 ± 0.509 χ^2/NDF : 637.8/22

Left Out: -19.847 ± 0.153 χ^2/NDF : 1931.3/24

Right Out: -8.956 ± 0.523 χ^2/NDF : 609.2/27

Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47

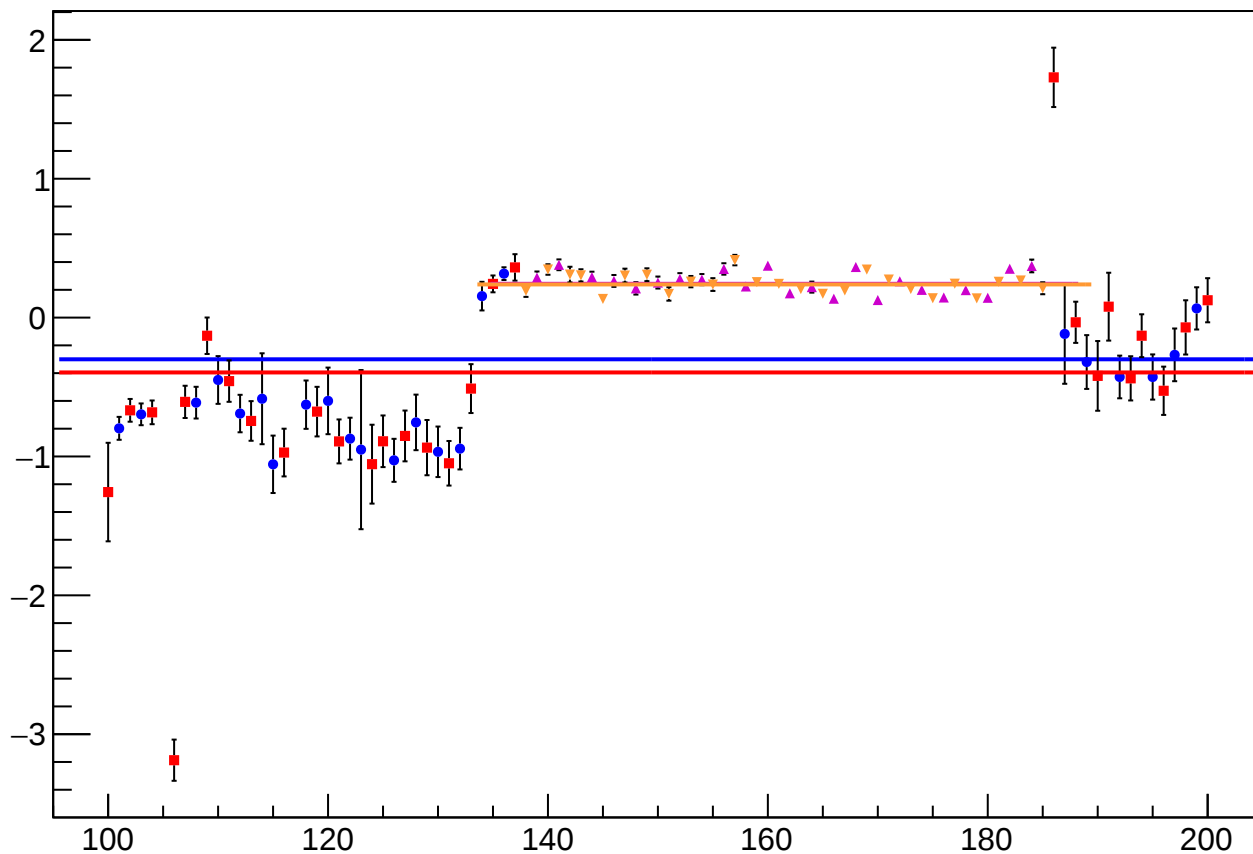
Right: -10.020 ± 0.365 χ^2/NDF : 1255.2/50

In: -19.597 ± 0.150 χ^2/NDF : 3250.5/45

Out: -18.990 ± 0.147 χ^2/NDF : 2940.7/52

All: -19.287 ± 0.105 χ^2/NDF : 6199.5/98

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.300 ± 0.026 χ^2/NDF : 379.1/22

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.395 ± 0.026 χ^2/NDF : 762.3/27

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

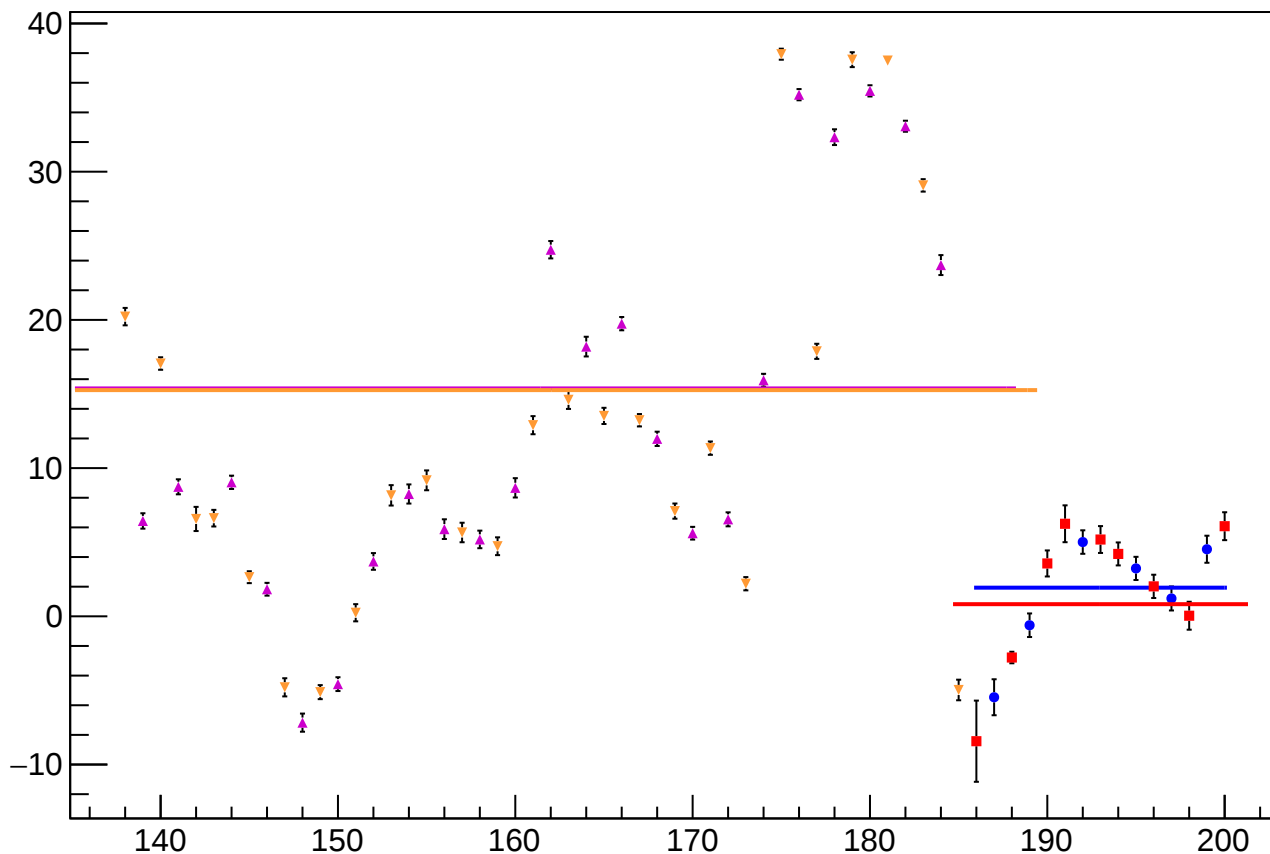
Right: -0.348 ± 0.018 χ^2/NDF : 1148.1/50

In: 0.204 ± 0.007 χ^2/NDF : 928.7/45

Out: 0.195 ± 0.007 χ^2/NDF : 1416.7/52

All: 0.200 ± 0.005 χ^2/NDF : 2346.3/98

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.933 ± 0.349 χ^2/NDF : 74.0/5

Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24

Right Out: 0.819 ± 0.254 χ^2/NDF : 202.4/8

Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47

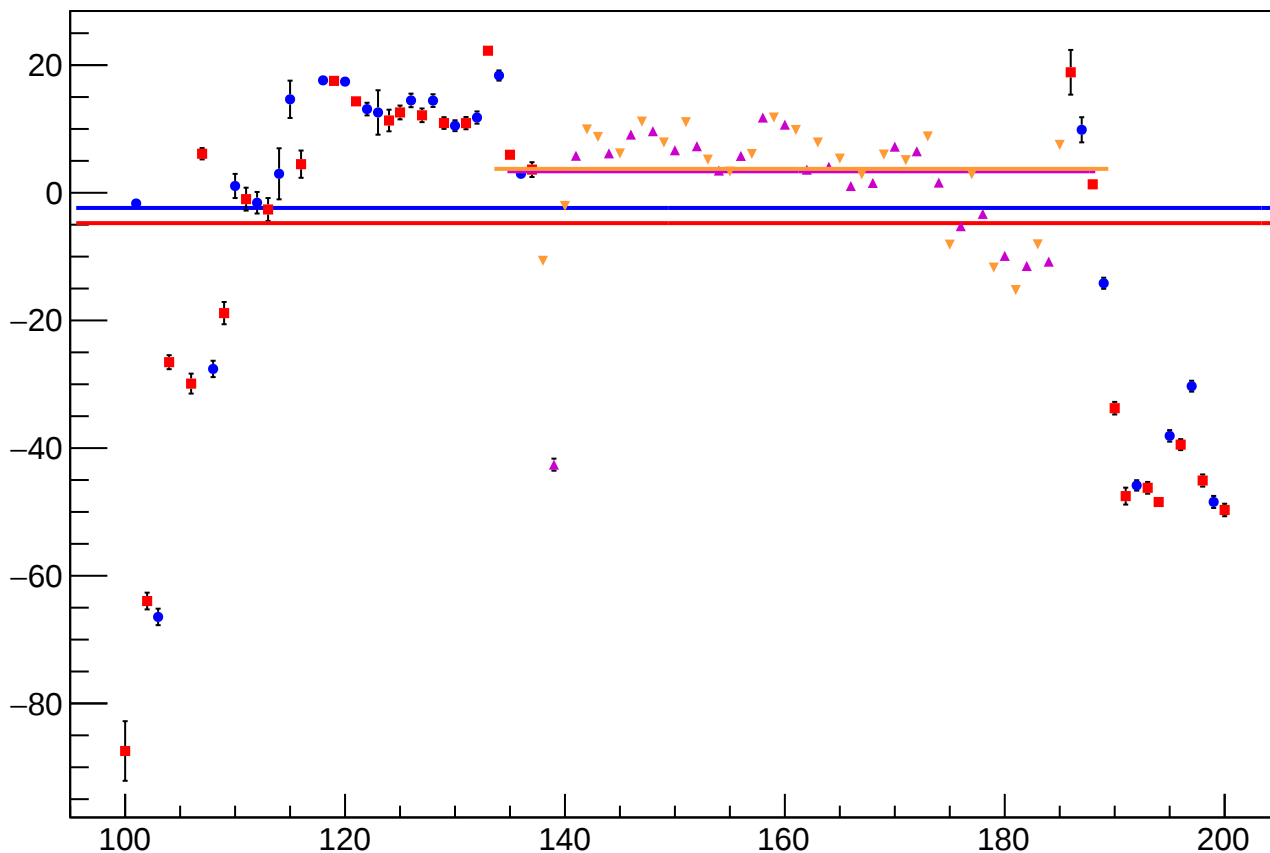
Right: 1.206 ± 0.206 χ^2/NDF : 283.1/14

In: 14.304 ± 0.099 χ^2/NDF : 17708.7/28

Out: 13.314 ± 0.093 χ^2/NDF : 22164.5/33

All: 13.783 ± 0.068 χ^2/NDF : 39926.3/62

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.376 ± 0.190 $\chi^2/\text{NDF}: 15549.0/22$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -4.756 ± 0.174 $\chi^2/\text{NDF}: 23276.0/27$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

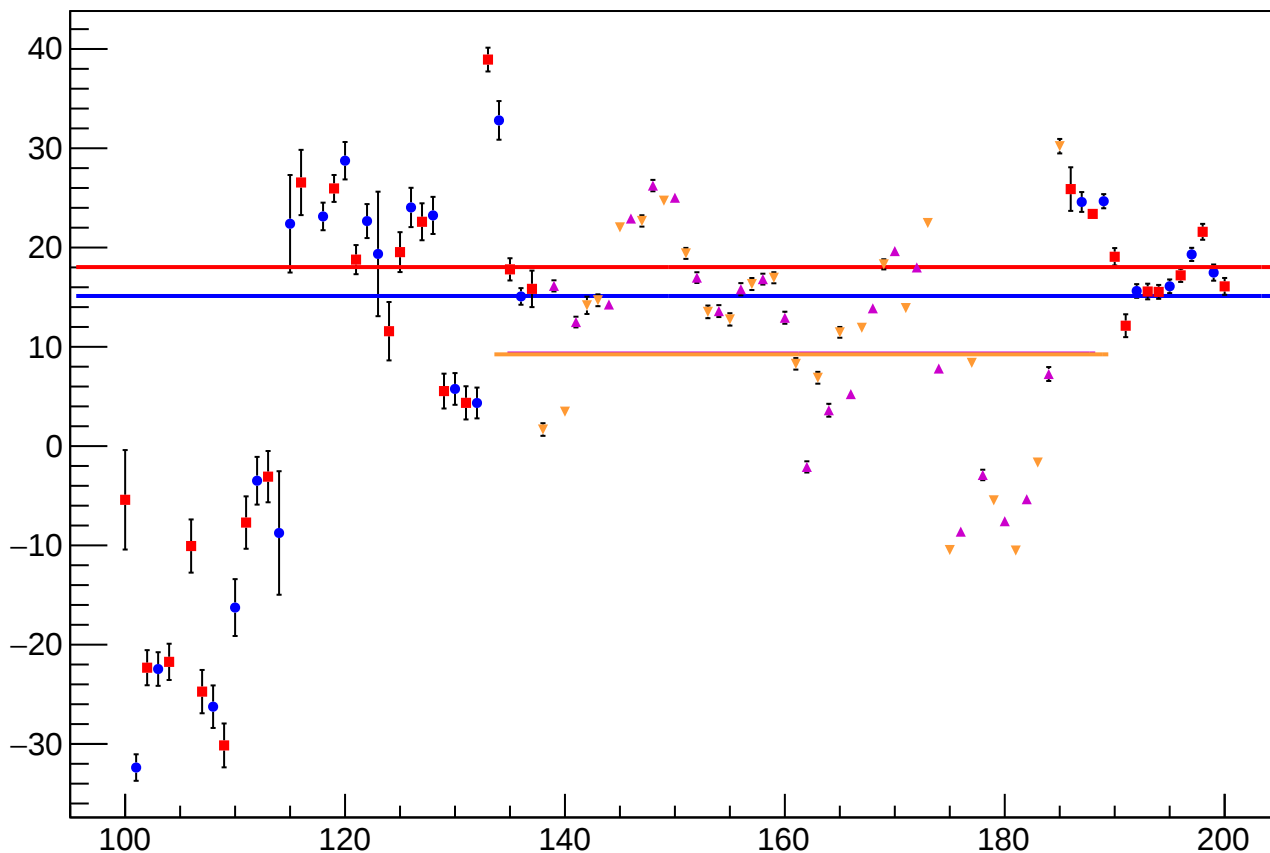
Right: -3.667 ± 0.128 $\chi^2/\text{NDF}: 38910.5/50$

In: 2.475 ± 0.075 $\chi^2/\text{NDF}: 24850.5/45$

Out: 2.303 ± 0.072 $\chi^2/\text{NDF}: 34501.3/52$

All: 2.385 ± 0.052 $\chi^2/\text{NDF}: 59354.6/98$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.121+/-0.245 χ^2/NDF : 2958.0/22

Left Out: 9.242+/-0.101 χ^2/NDF :13633.2/24

Right Out: 18.032+/-0.193 χ^2/NDF : 3002.0/27

Left In: 9.328+/-0.103 χ^2/NDF :11968.5/22

Left: 9.284+/-0.072 χ^2/NDF : 25602.0/47

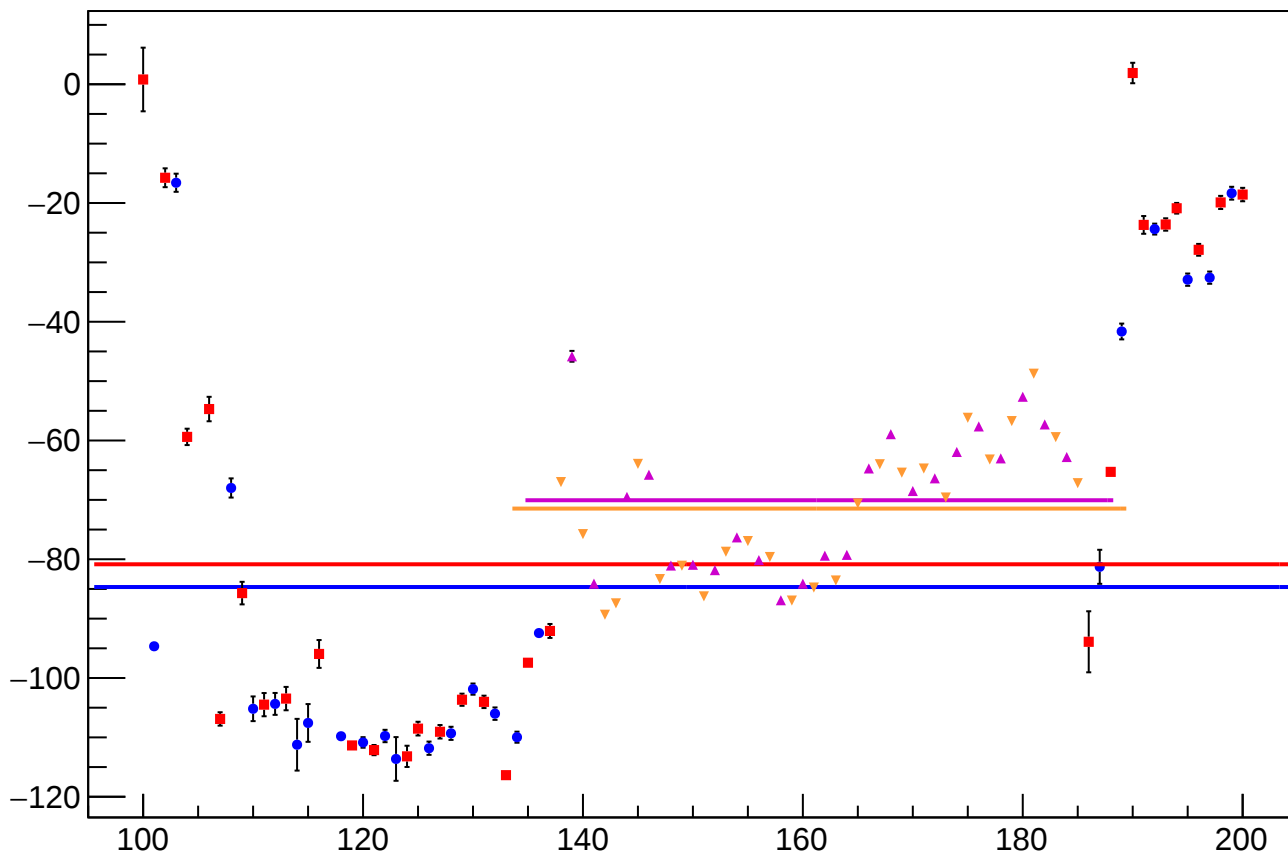
Right: 16.920+/-0.152 χ^2/NDF : 6047.1/50

In: 10.191+/-0.095 χ^2/NDF :15401.7/45

Out: 11.133+/-0.089 χ^2/NDF :18267.7/52

All: 10.689+/-0.065 χ^2/NDF : 33721.8/98

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -84.677 ± 0.221 χ^2/NDF : 22565.5/22

Left Out: -71.465 ± 0.089 χ^2/NDF : 16409.7/24

Right Out: -80.847 ± 0.206 χ^2/NDF : 34248.5/27

Left In: -70.061 ± 0.092 χ^2/NDF : 13058.5/22

Left: -70.782 ± 0.064 χ^2/NDF : 29588.5/47

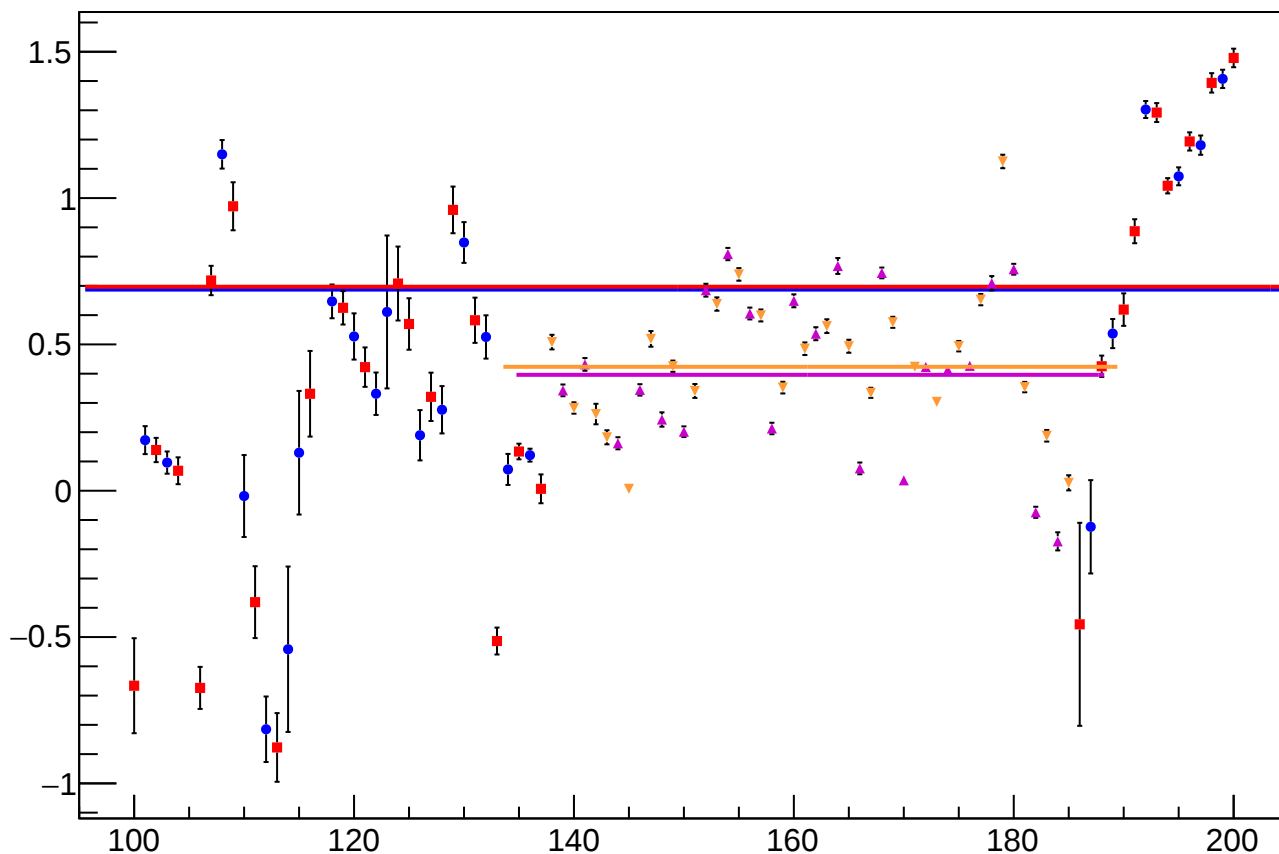
Right: -82.630 ± 0.151 χ^2/NDF : 56974.4/50

In: -72.208 ± 0.085 χ^2/NDF : 39354.1/45

Out: -72.945 ± 0.082 χ^2/NDF : 52399.5/52

All: -72.589 ± 0.059 χ^2/NDF : 91792.8/98

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.687 ± 0.010 χ^2/NDF : 2962.6/22

Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24

Right Out: 0.697 ± 0.009 χ^2/NDF : 4370.6/27

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

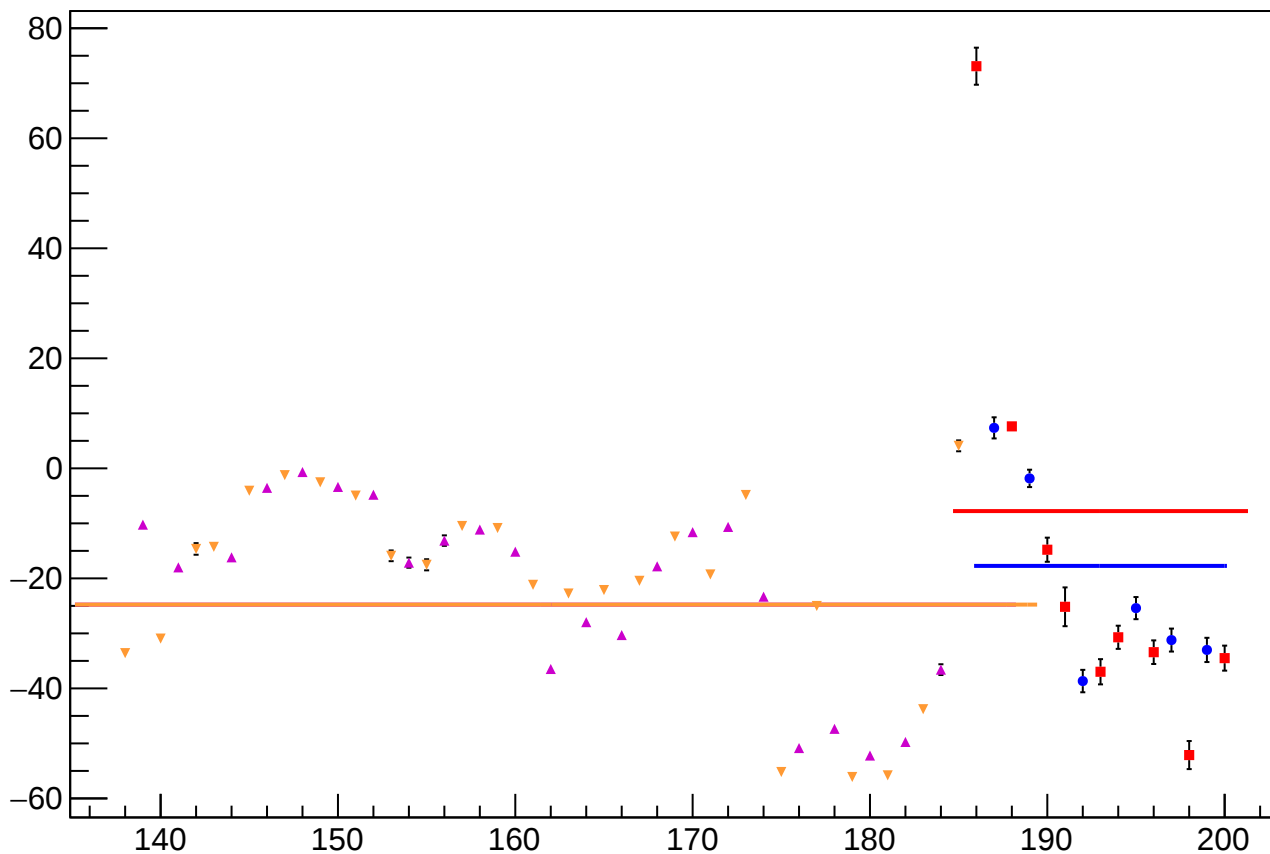
Right: 0.693 ± 0.007 χ^2/NDF : 7333.7/50

In: 0.439 ± 0.004 χ^2/NDF : 7742.4/45

Out: 0.471 ± 0.004 χ^2/NDF : 8030.8/52

All: 0.456 ± 0.003 χ^2/NDF : 15807.9/98

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.731 ± 0.792 $\chi^2/\text{NDF}: 482.0/5$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -7.768 ± 0.586 $\chi^2/\text{NDF}: 1845.1/8$
 Left In: -24.775 ± 0.143 $\chi^2/\text{NDF}: 14807.4/22$

Left: -24.772 ± 0.100 $\chi^2/\text{NDF}: 33126.2/47$

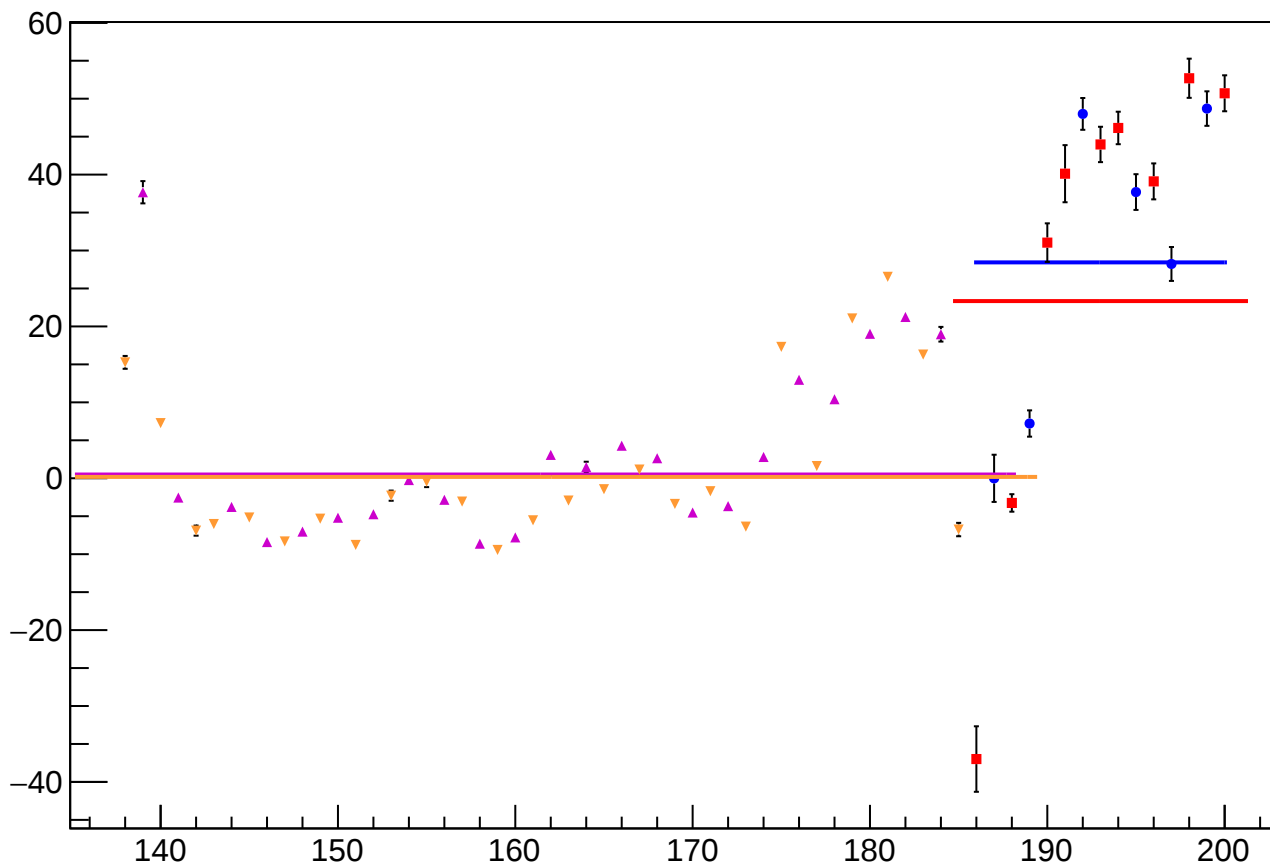
Right: -11.291 ± 0.471 $\chi^2/\text{NDF}: 2429.4/14$

In: -24.553 ± 0.140 $\chi^2/\text{NDF}: 15366.0/28$

Out: -23.857 ± 0.136 $\chi^2/\text{NDF}: 20961.5/33$

All: -24.193 ± 0.098 $\chi^2/\text{NDF}: 36340.2/62$

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 28.436 ± 0.898 χ^2/NDF : 416.0/5

Left Out: 0.177 ± 0.109 χ^2/NDF : 8295.6/24

Right Out: 23.339 ± 0.718 χ^2/NDF : 1256.1/8

Left In: 0.493 ± 0.112 χ^2/NDF : 6555.4/22

Left: 0.330 ± 0.078 χ^2/NDF : 14855.0/47

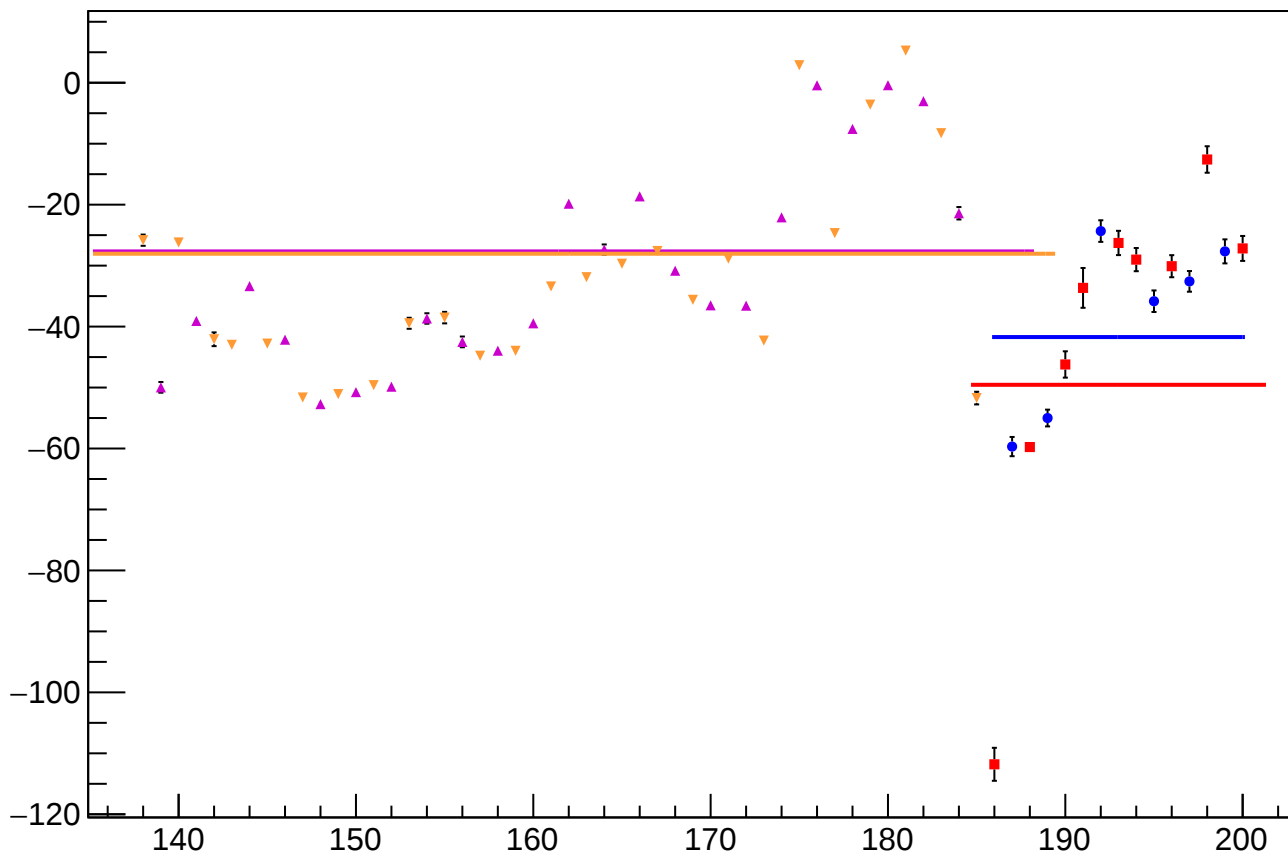
Right: 25.325 ± 0.561 χ^2/NDF : 1691.7/14

In: 0.922 ± 0.111 χ^2/NDF : 7924.2/28

Out: 0.695 ± 0.107 χ^2/NDF : 10569.9/33

All: 0.804 ± 0.077 χ^2/NDF : 18496.3/62

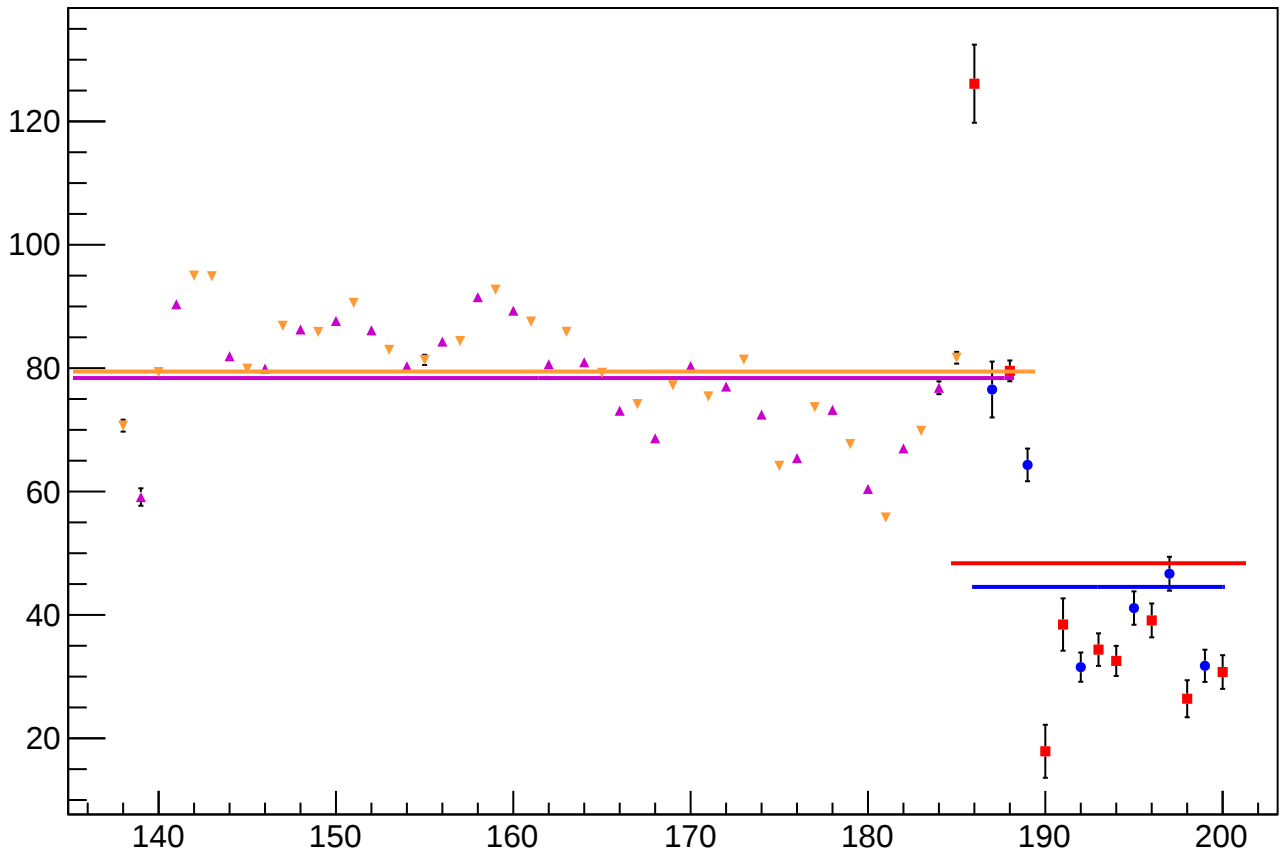
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.718 ± 0.678 χ^2/NDF : 409.9/5
 Left Out: -28.050 ± 0.140 χ^2/NDF : 17144.5/24
 Right Out: -49.550 ± 0.493 χ^2/NDF : 1581.6/8
 Left In: -27.666 ± 0.142 χ^2/NDF : 15003.2/22

Left: -27.862 ± 0.100 χ^2/NDF : 32151.3/47
 Right: -46.842 ± 0.399 χ^2/NDF : 2078.8/14
 In: -28.260 ± 0.139 χ^2/NDF : 15824.2/28
 Out: -29.652 ± 0.135 χ^2/NDF : 20486.1/33
 All: -28.980 ± 0.097 χ^2/NDF : 36362.0/62

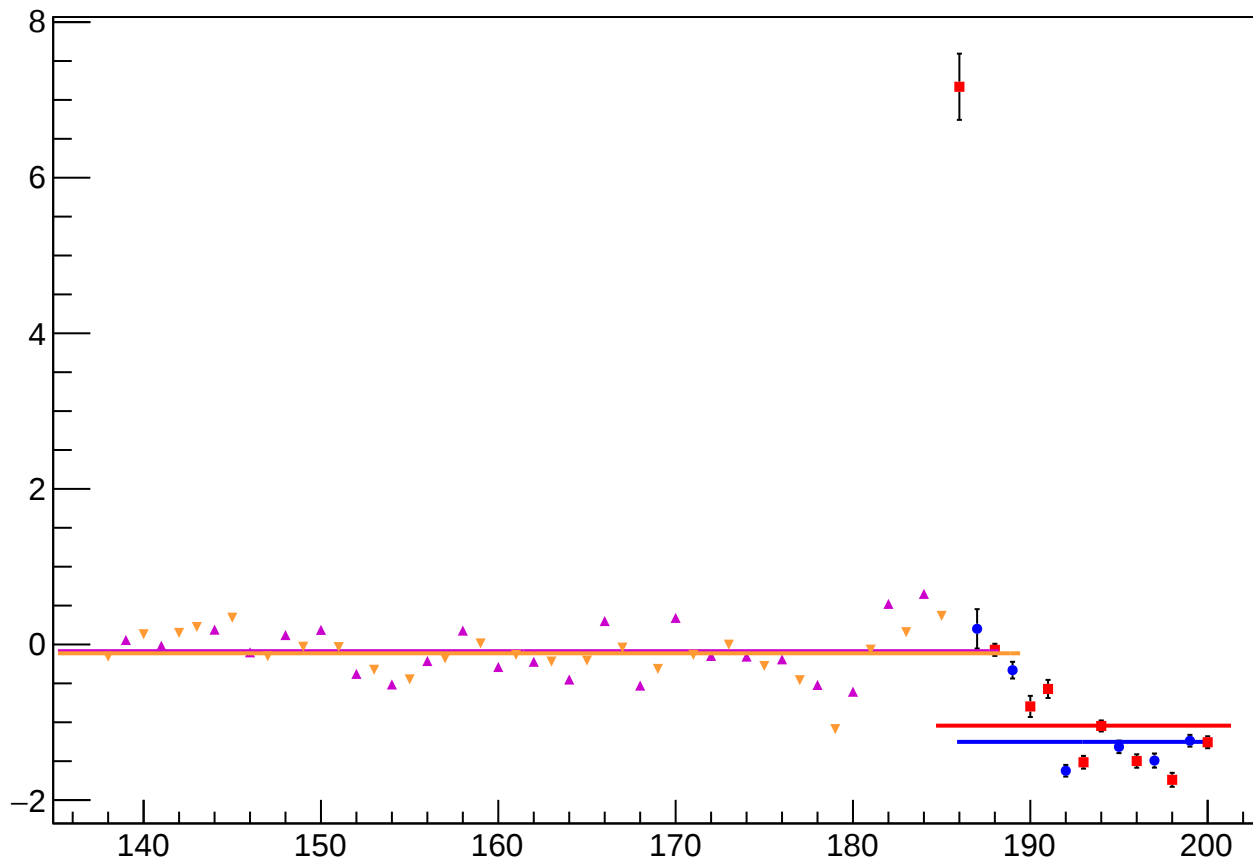
reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 44.542 ± 1.128 $\chi^2/\text{NDF}: 161.9/5$
 Left Out: 79.456 ± 0.123 $\chi^2/\text{NDF}: 6077.1/24$
 Right Out: 48.377 ± 0.922 $\chi^2/\text{NDF}: 725.6/8$
 Left In: 78.396 ± 0.127 $\chi^2/\text{NDF}: 4707.3/22$

Left: 78.941 ± 0.088 $\chi^2/\text{NDF}: 10820.4/47$
 Right: 46.841 ± 0.714 $\chi^2/\text{NDF}: 894.5/14$
 In: 77.974 ± 0.126 $\chi^2/\text{NDF}: 5758.2/28$
 Out: 78.911 ± 0.122 $\chi^2/\text{NDF}: 7918.7/33$
 All: 78.457 ± 0.088 $\chi^2/\text{NDF}: 13705.4/62$

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.252 ± 0.037 χ^2/NDF : 138.8/5

Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24

Right Out: -1.043 ± 0.030 χ^2/NDF : 677.7/8

Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47

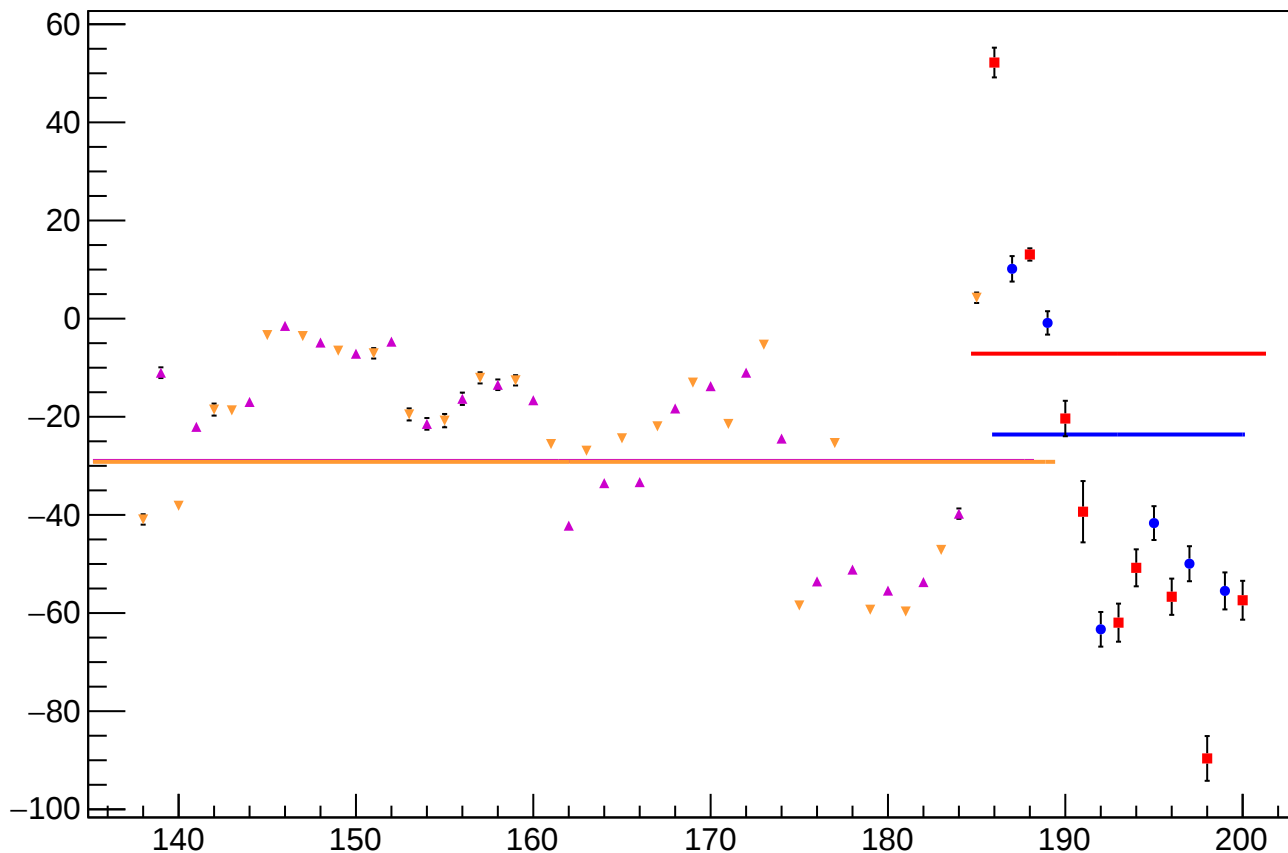
Right: -1.128 ± 0.024 χ^2/NDF : 835.4/14

In: -0.114 ± 0.006 χ^2/NDF : 4241.1/28

Out: -0.144 ± 0.006 χ^2/NDF : 3880.0/33

All: -0.130 ± 0.004 χ^2/NDF : 8135.5/62

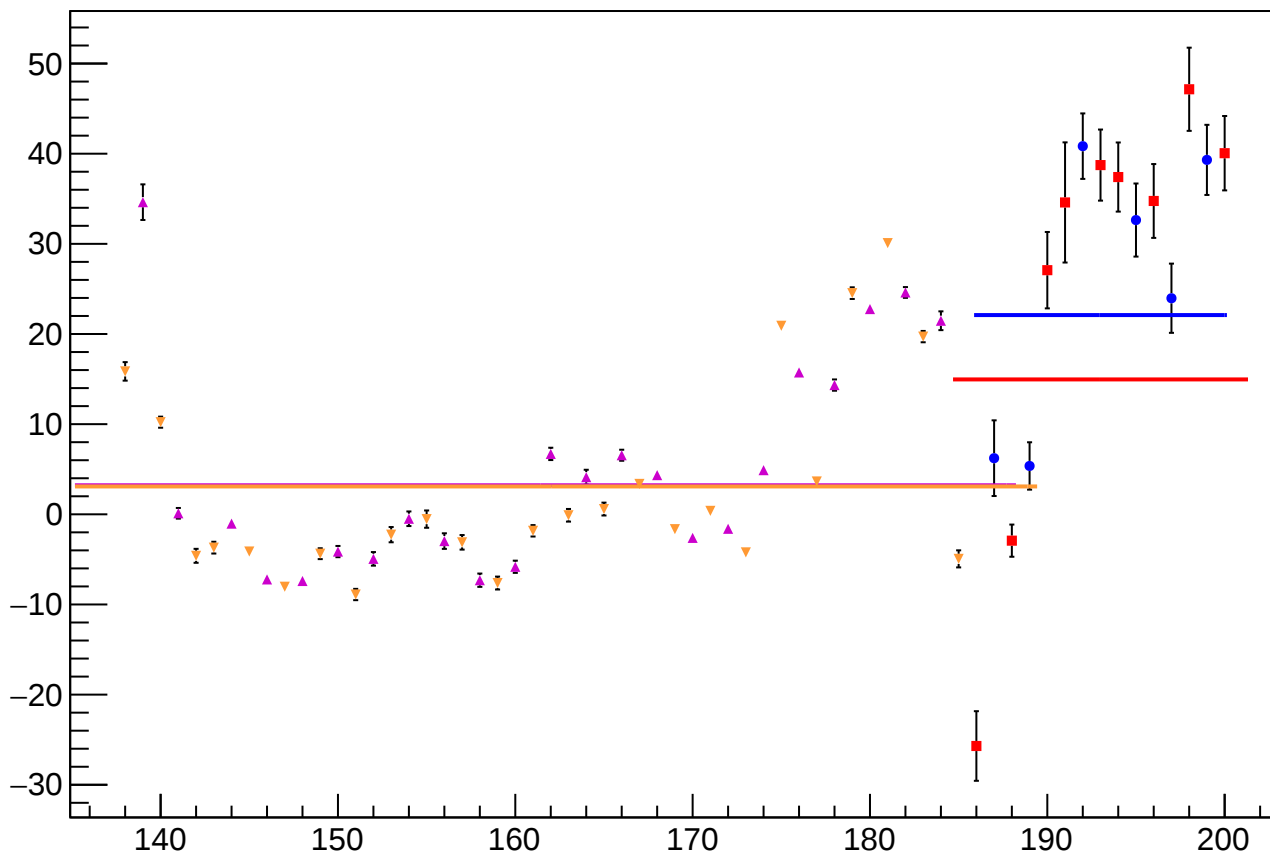
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.614 ± 1.253 $\chi^2/\text{NDF}: 539.7/5$
 Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$
 Right Out: -7.138 ± 0.924 $\chi^2/\text{NDF}: 1685.8/8$
 Left In: -29.003 ± 0.160 $\chi^2/\text{NDF}: 13416.8/22$

Left: -29.093 ± 0.112 $\chi^2/\text{NDF}: 30329.6/47$
 Right: -12.944 ± 0.744 $\chi^2/\text{NDF}: 2337.5/14$
 In: -28.916 ± 0.159 $\chi^2/\text{NDF}: 13974.7/28$
 Out: -28.564 ± 0.155 $\chi^2/\text{NDF}: 19151.1/33$
 All: -28.736 ± 0.111 $\chi^2/\text{NDF}: 33128.3/62$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 22.100 $\pm$ 1.455 χ^2 /NDF: 108.1/5

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: 14.962 $\pm$ 1.149 χ^2 /NDF: 407.9/8

Left In: 3.221 $\pm$ 0.127 χ^2 /NDF:6237.6/22

Left: 3.155 $\pm$ 0.089 χ^2 /NDF: 14322.2/47

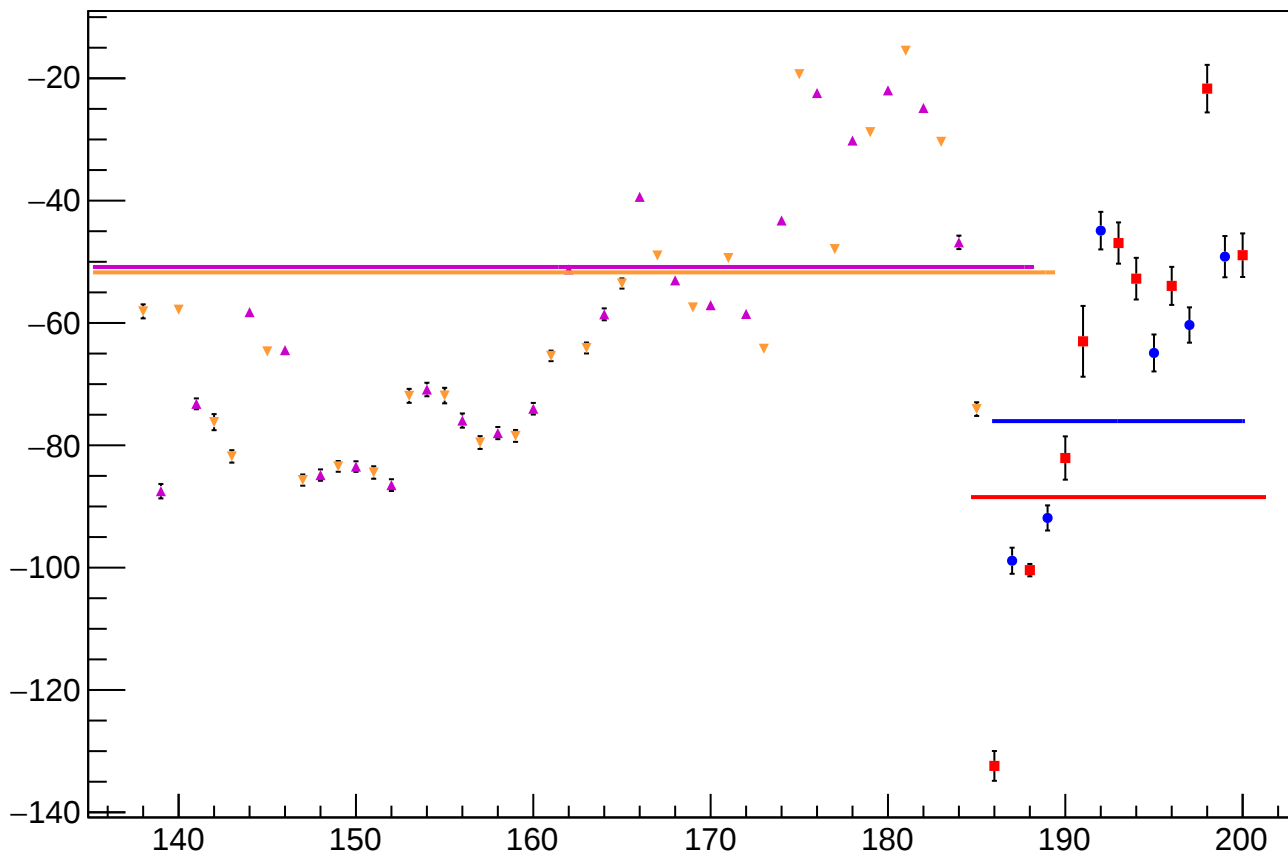
Right: 17.705 $\pm$ 0.902 χ^2 /NDF: 530.8/14

In: 3.364 $\pm$ 0.126 χ^2 /NDF:6512.8/28

Out: 3.228 $\pm$ 0.124 χ^2 /NDF:8597.4/33

All: 3.294 $\pm$ 0.088 χ^2 /NDF: 15110.7/62

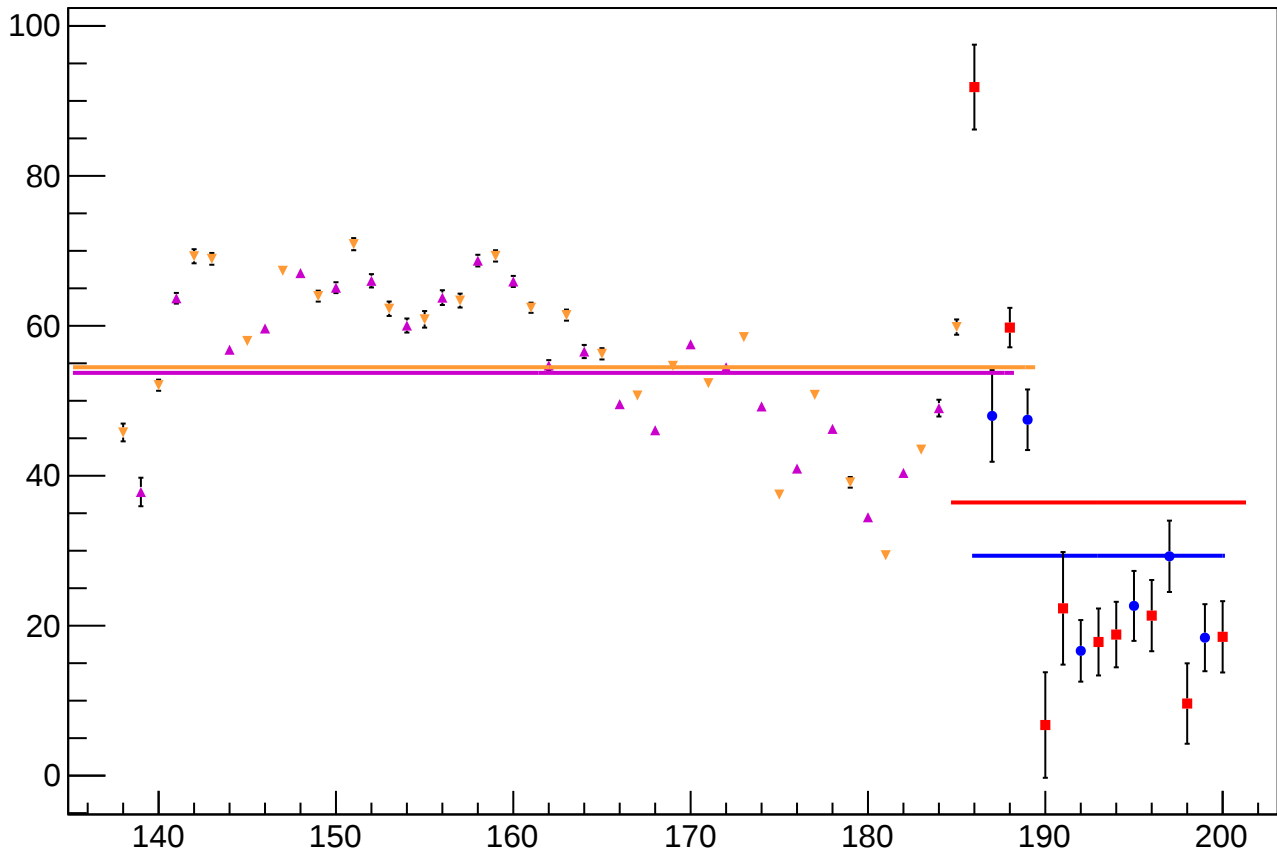
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.043 ± 1.066 $\chi^2/\text{NDF}: 383.5/5$
 Left Out: -51.729 ± 0.158 $\chi^2/\text{NDF}: 19538.0/24$
 Right Out: -88.467 ± 0.772 $\chi^2/\text{NDF}: 1291.1/8$
 Left In: -50.844 ± 0.160 $\chi^2/\text{NDF}: 17272.0/22$

Left: -51.293 ± 0.112 $\chi^2/\text{NDF}: 36825.5/47$
 Right: -84.194 ± 0.625 $\chi^2/\text{NDF}: 1763.7/14$
 In: -51.400 ± 0.158 $\chi^2/\text{NDF}: 18202.2/28$
 Out: -53.205 ± 0.155 $\chi^2/\text{NDF}: 23004.7/33$
 All: -52.324 ± 0.111 $\chi^2/\text{NDF}: 41273.4/62$

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 29.331 $\pm$ 1.865 χ^2 /NDF: 47.0/5

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF:6266.9/24

Right Out: 36.436 $\pm$ 1.509 χ^2 /NDF: 278.7/8

Left In: 53.724 $\pm$ 0.143 χ^2 /NDF:4585.7/22

Left: 54.107 $\pm$ 0.100 χ^2 /NDF: 10866.7/47

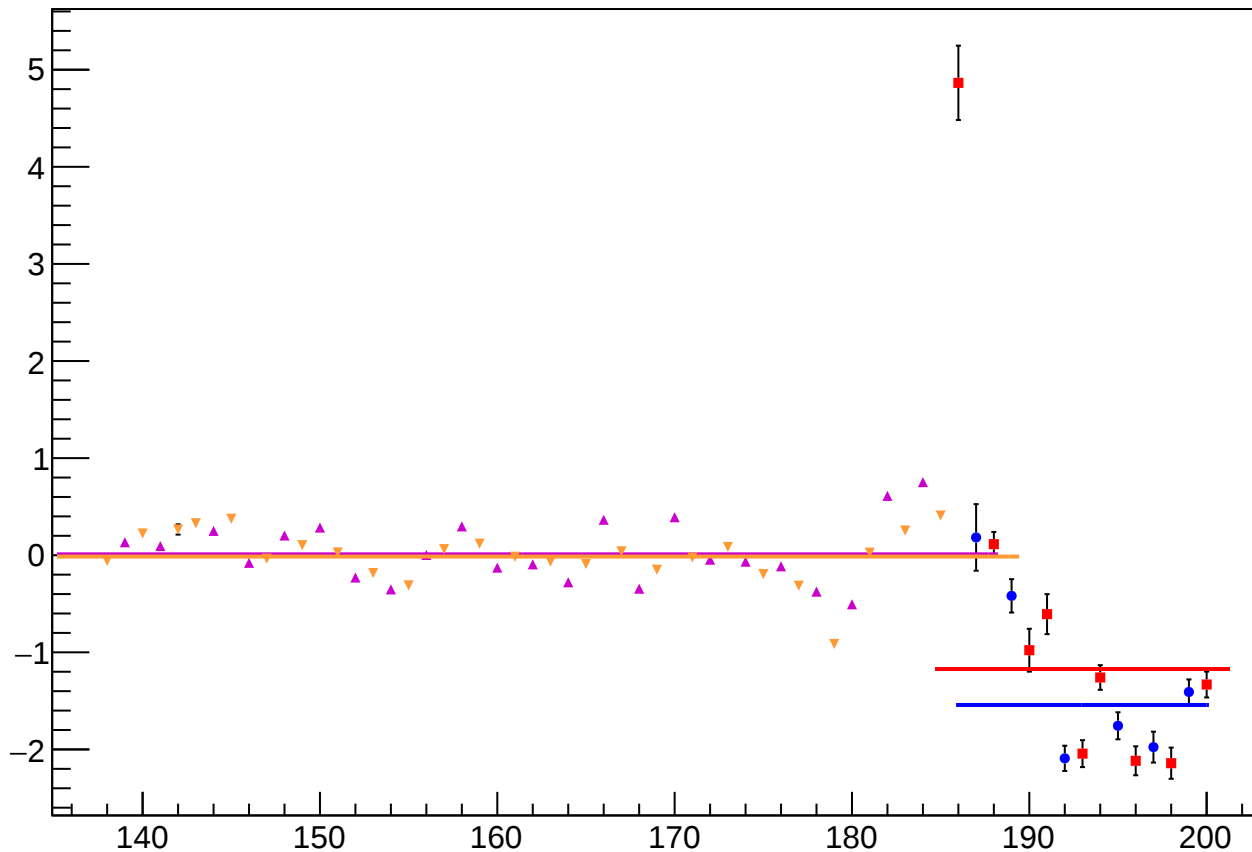
Right: 33.626 $\pm$ 1.173 χ^2 /NDF: 334.5/14

In: 53.581 $\pm$ 0.143 χ^2 /NDF:4802.7/28

Out: 54.322 $\pm$ 0.140 χ^2 /NDF:6687.3/33

All: 53.959 $\pm$ 0.100 χ^2 /NDF: 11503.8/62

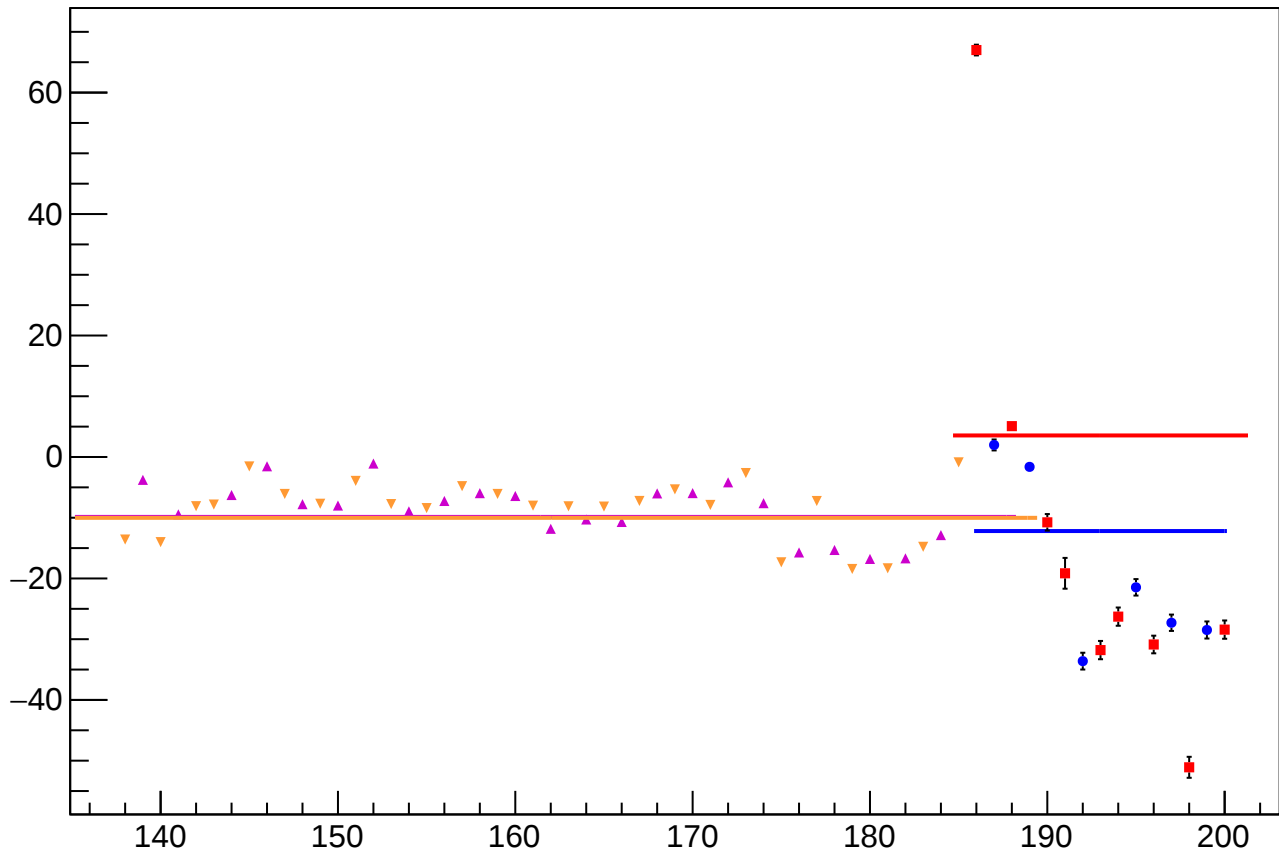
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.542 ± 0.063 $\chi^2/\text{NDF}: 96.9/5$
 Left Out: -0.014 ± 0.006 $\chi^2/\text{NDF}: 1654.7/24$
 Right Out: -1.172 ± 0.052 $\chi^2/\text{NDF}: 479.2/8$
 Left In: 0.009 ± 0.007 $\chi^2/\text{NDF}: 2220.5/22$

Left: -0.003 ± 0.005 $\chi^2/\text{NDF}: 3881.4/47$
 Right: -1.323 ± 0.040 $\chi^2/\text{NDF}: 596.6/14$
 In: -0.008 ± 0.007 $\chi^2/\text{NDF}: 2918.6/28$
 Out: -0.031 ± 0.006 $\chi^2/\text{NDF}: 2620.3/33$
 All: -0.020 ± 0.005 $\chi^2/\text{NDF}: 5545.5/62$

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.193 ± 0.456 χ^2/NDF : 956.7/5

Left Out: -10.017 ± 0.051 χ^2/NDF : 12552.8/24

Right Out: 3.547 ± 0.331 χ^2/NDF : 8302.9/8

Left In: -9.865 ± 0.051 χ^2/NDF : 9345.4/22

Left: -9.942 ± 0.036 χ^2/NDF : 21902.5/47

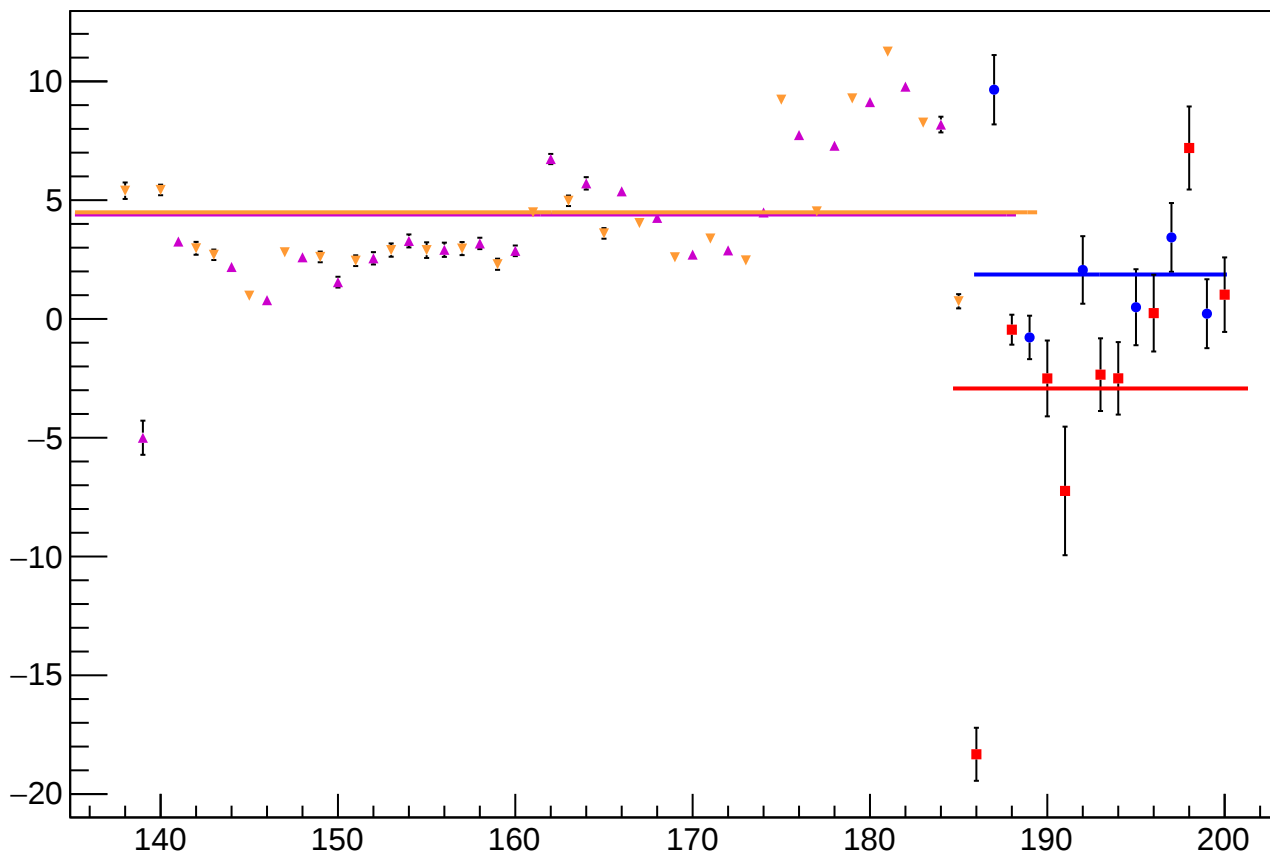
Right: -1.882 ± 0.268 χ^2/NDF : 10040.7/14

In: -9.895 ± 0.051 χ^2/NDF : 10327.8/28

Out: -9.706 ± 0.050 χ^2/NDF : 22499.0/33

All: -9.798 ± 0.036 χ^2/NDF : 32833.8/62

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.871 ± 0.534 $\chi^2/\text{NDF}: 40.0/5$

Left Out: 4.489 ± 0.041 $\chi^2/\text{NDF}: 4832.3/24$

Right Out: -2.927 ± 0.415 $\chi^2/\text{NDF}: 252.3/8$

Left In: 4.396 ± 0.041 $\chi^2/\text{NDF}: 4230.4/22$

Left: 4.443 ± 0.029 $\chi^2/\text{NDF}: 9065.3/47$

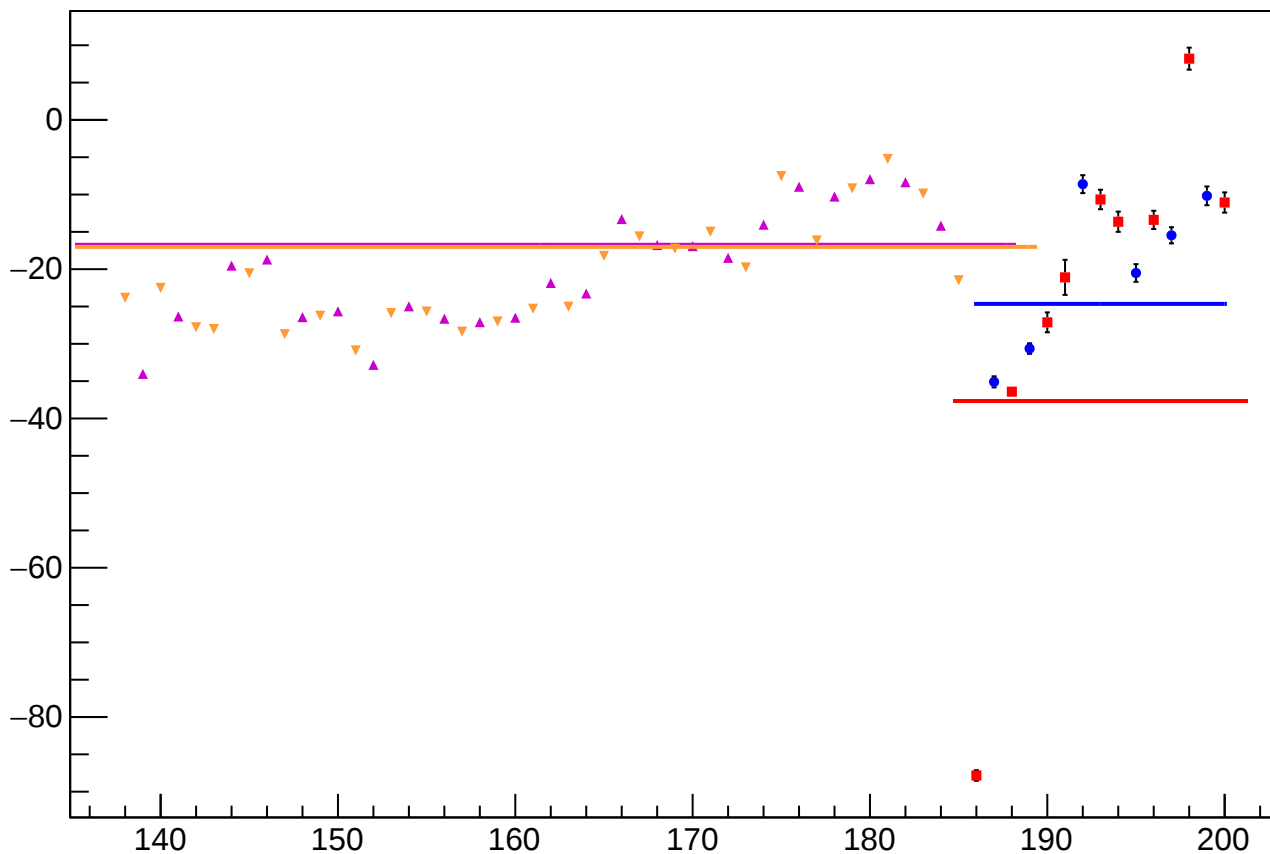
Right: -1.124 ± 0.328 $\chi^2/\text{NDF}: 342.6/14$

In: 4.381 ± 0.041 $\chi^2/\text{NDF}: 4292.6/28$

Out: 4.418 ± 0.040 $\chi^2/\text{NDF}: 5401.5/33$

All: 4.400 ± 0.029 $\chi^2/\text{NDF}: 9694.5/62$

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -24.648 ± 0.386 $\chi^2/\text{NDF}: 665.0/5$

Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$

Right Out: -37.659 ± 0.275 $\chi^2/\text{NDF}: 7593.3/8$

Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$

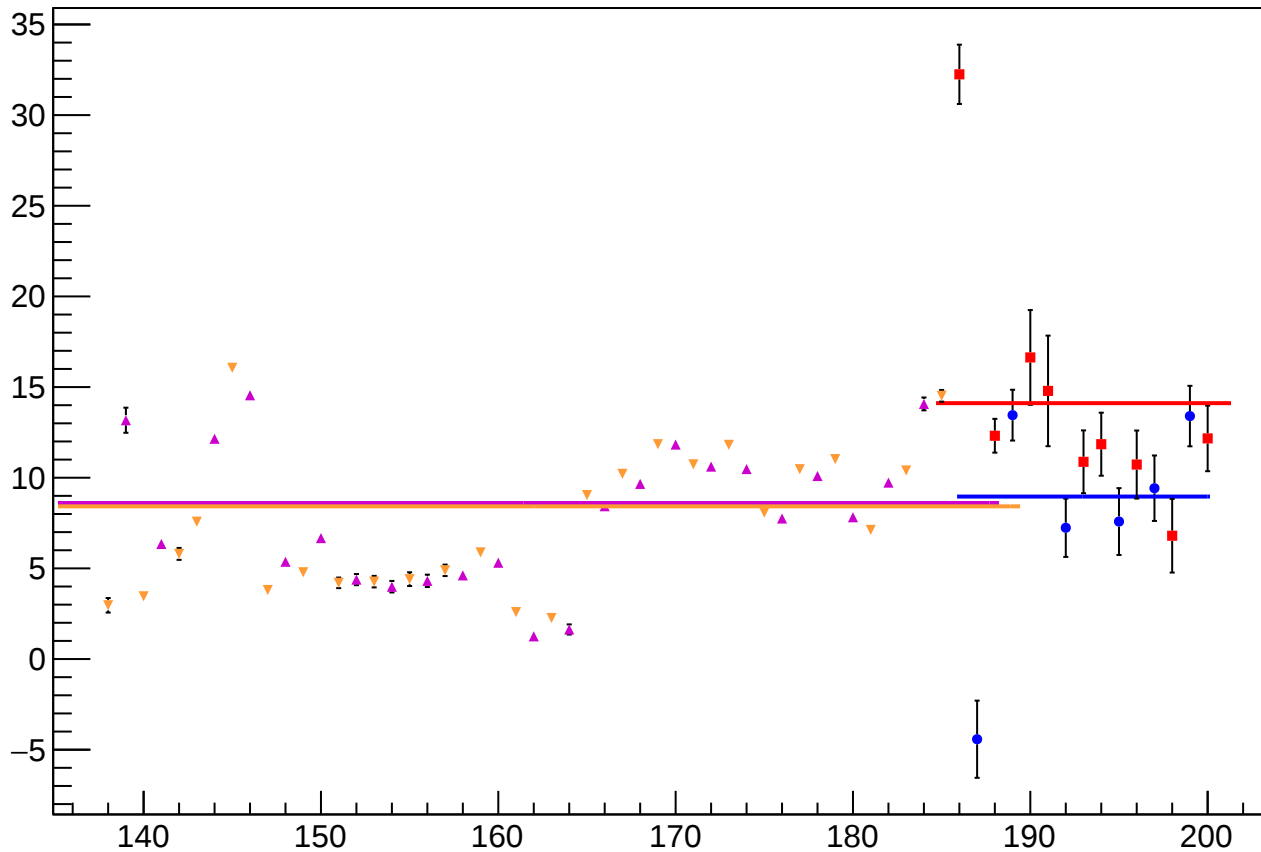
Right: -33.288 ± 0.224 $\chi^2/\text{NDF}: 9012.4/14$

In: -16.870 ± 0.051 $\chi^2/\text{NDF}: 19855.2/28$

Out: -17.699 ± 0.050 $\chi^2/\text{NDF}: 35154.2/33$

All: -17.292 ± 0.036 $\chi^2/\text{NDF}: 55143.3/62$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.962 ± 0.694 χ^2/NDF : 58.7/5

Left Out: 8.422 ± 0.046 χ^2/NDF : 6470.1/24

Right Out: 14.113 ± 0.552 χ^2/NDF : 150.3/8

Left In: 8.606 ± 0.046 χ^2/NDF : 5504.2/22

Left: 8.513 ± 0.032 χ^2/NDF : 11982.4/47

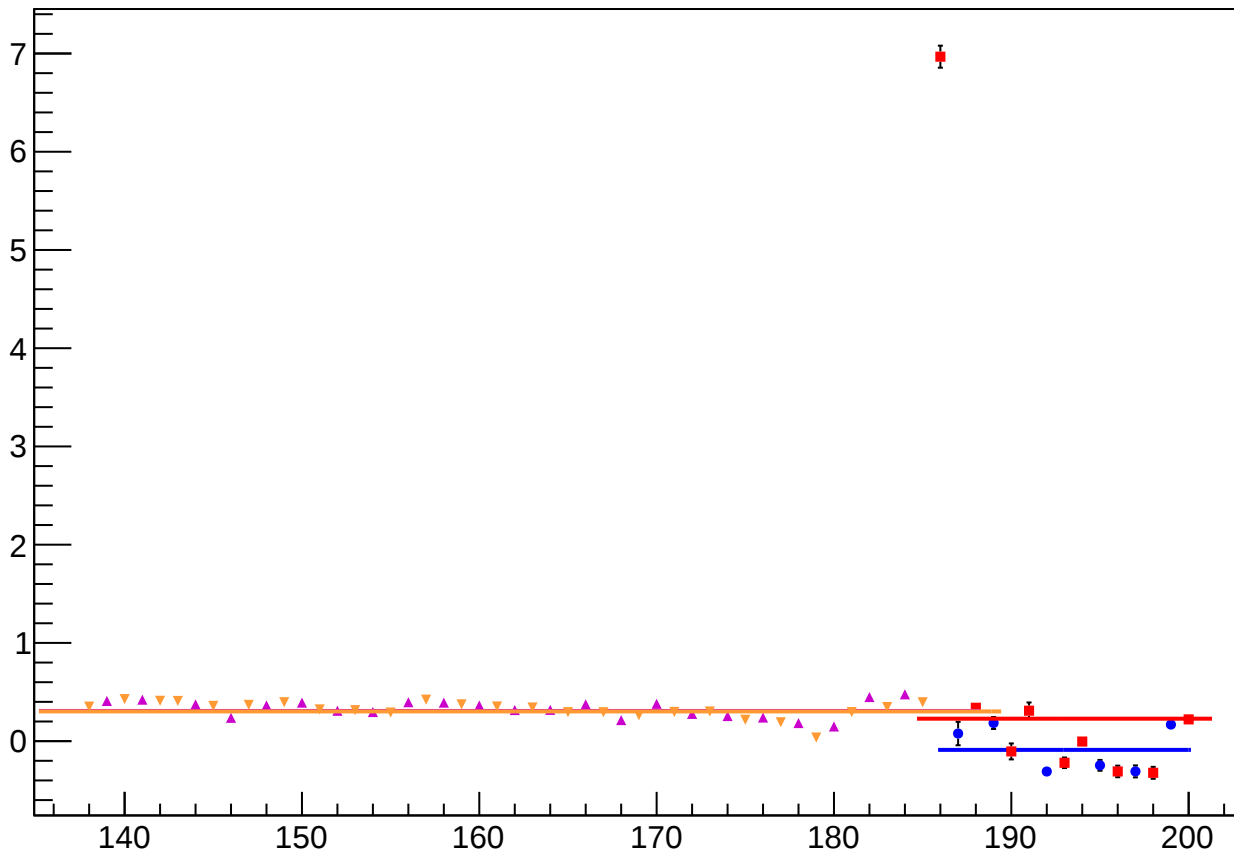
Right: 12.114 ± 0.432 χ^2/NDF : 242.7/14

In: 8.608 ± 0.046 χ^2/NDF : 5563.2/28

Out: 8.460 ± 0.045 χ^2/NDF : 6725.8/33

All: 8.533 ± 0.032 χ^2/NDF : 12294.2/62

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.089 ± 0.024 χ^2/NDF : 90.4/5

Left Out: 0.302 ± 0.002 χ^2/NDF : 1590.9/24

Right Out: 0.229 ± 0.020 χ^2/NDF : 3887.7/8

Left In: 0.307 ± 0.002 χ^2/NDF : 1699.5/22

Left: 0.305 ± 0.001 χ^2/NDF : 3293.0/47

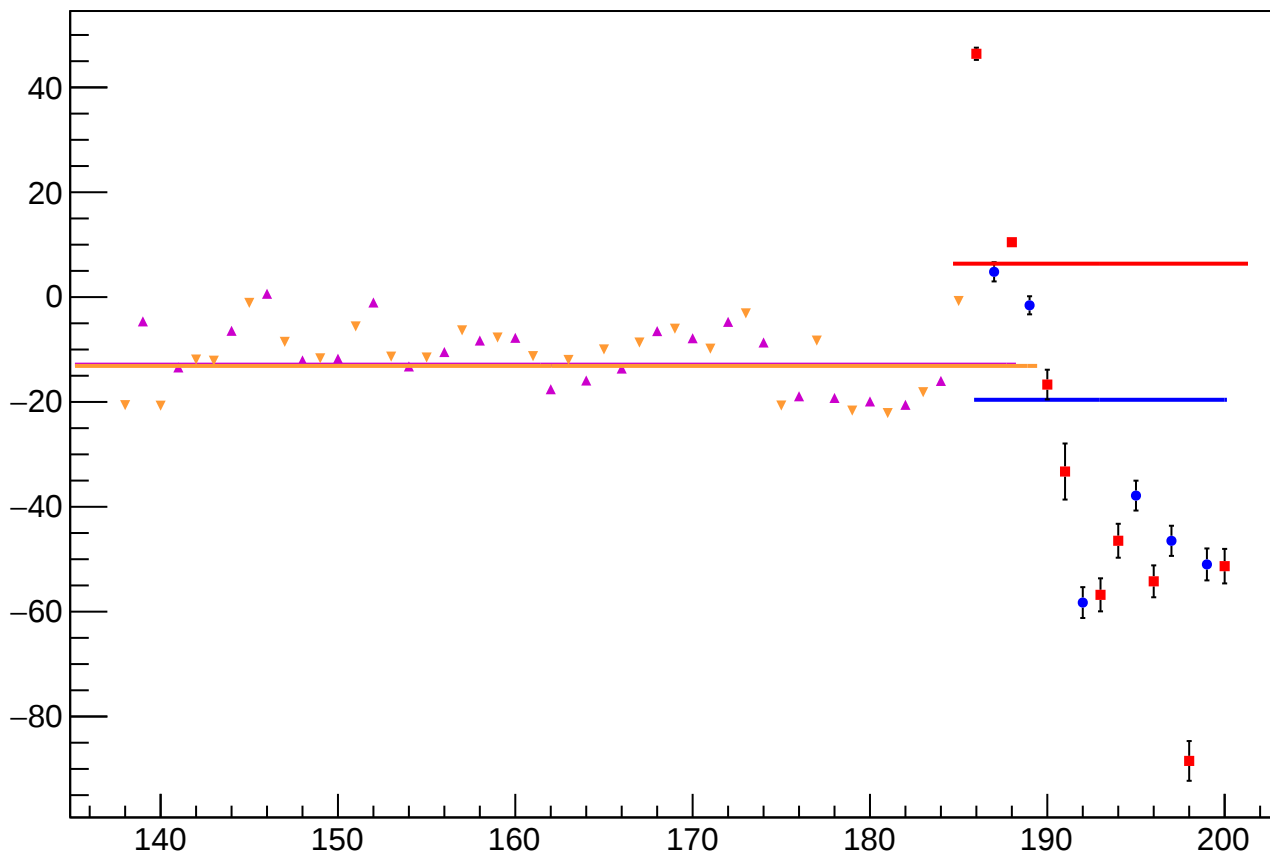
Right: 0.099 ± 0.015 χ^2/NDF : 4082.9/14

In: 0.304 ± 0.002 χ^2/NDF : 2062.9/28

Out: 0.302 ± 0.002 χ^2/NDF : 5492.4/33

All: 0.303 ± 0.001 χ^2/NDF : 7555.9/62

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.587 ± 0.953 χ^2/NDF : 694.7/5
 Left Out: -13.125 ± 0.094 χ^2/NDF : 5977.6/24
 Right Out: 6.375 ± 0.631 χ^2/NDF : 3316.5/8
 Left In: -12.885 ± 0.095 χ^2/NDF : 4776.2/22

Left: -13.007 ± 0.067 χ^2/NDF : 10757.0/47

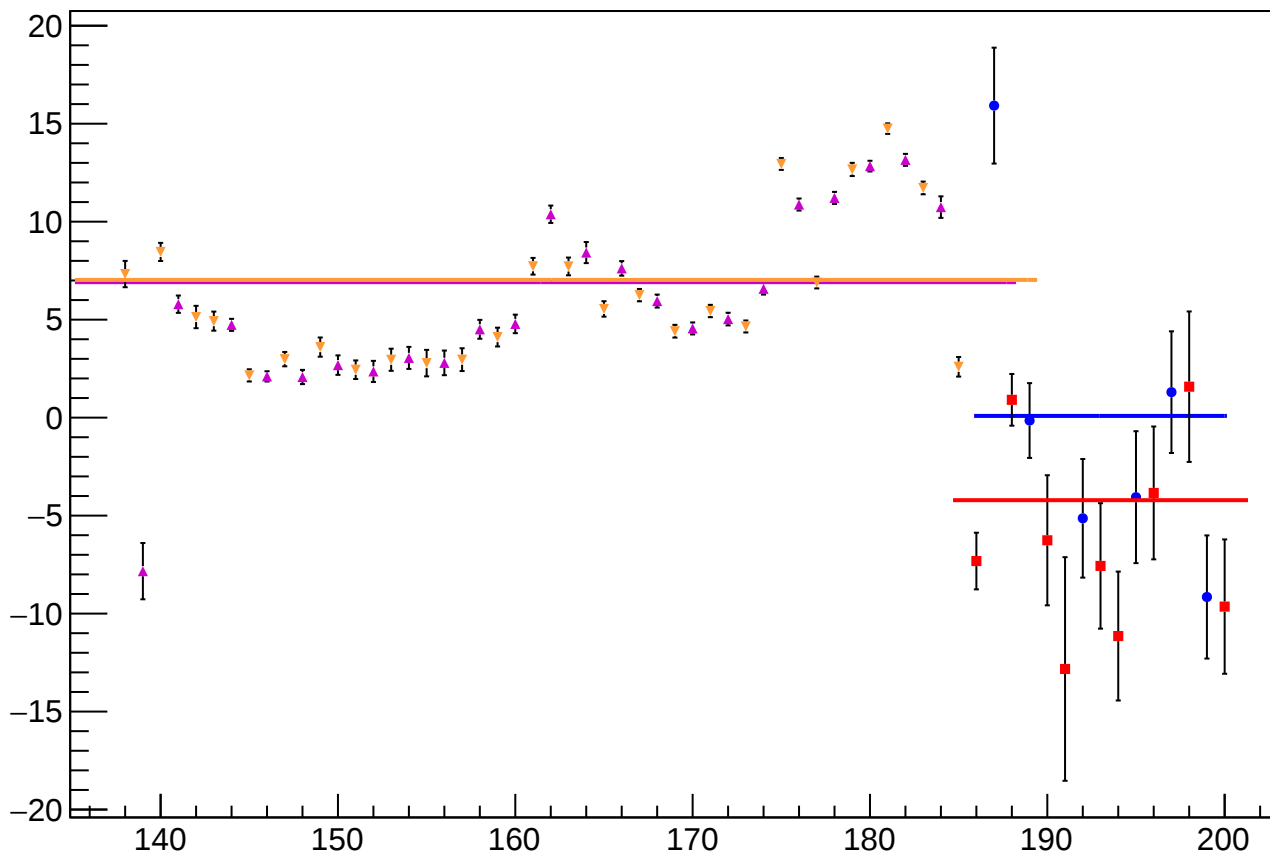
Right: -1.542 ± 0.526 χ^2/NDF : 4527.3/14

In: -12.952 ± 0.095 χ^2/NDF : 5519.8/28

Out: -12.705 ± 0.093 χ^2/NDF : 10228.5/33

All: -12.825 ± 0.066 χ^2/NDF : 15751.8/62

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.088 ± 1.124 $\chi^2/\text{NDF}: 42.0/5$

Left Out: 7.028 ± 0.077 $\chi^2/\text{NDF}: 2665.3/24$

Right Out: -4.213 ± 0.790 $\chi^2/\text{NDF}: 32.7/8$

Left In: 6.914 ± 0.078 $\chi^2/\text{NDF}: 2428.2/22$

Left: 6.971 ± 0.055 $\chi^2/\text{NDF}: 5094.6/47$

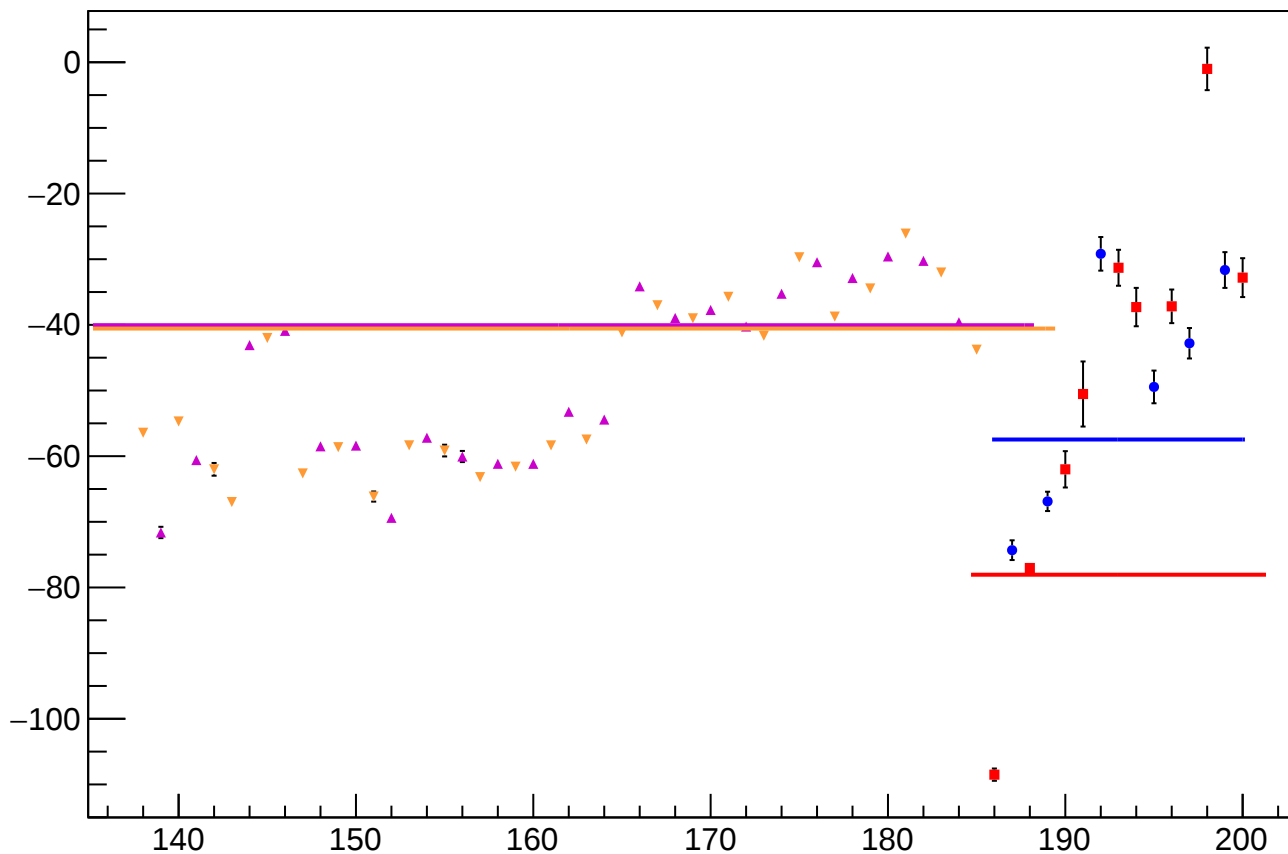
Right: -2.792 ± 0.646 $\chi^2/\text{NDF}: 84.5/14$

In: 6.881 ± 0.078 $\chi^2/\text{NDF}: 2506.9/28$

Out: 6.921 ± 0.077 $\chi^2/\text{NDF}: 2898.8/33$

All: 6.902 ± 0.055 $\chi^2/\text{NDF}: 5405.8/62$

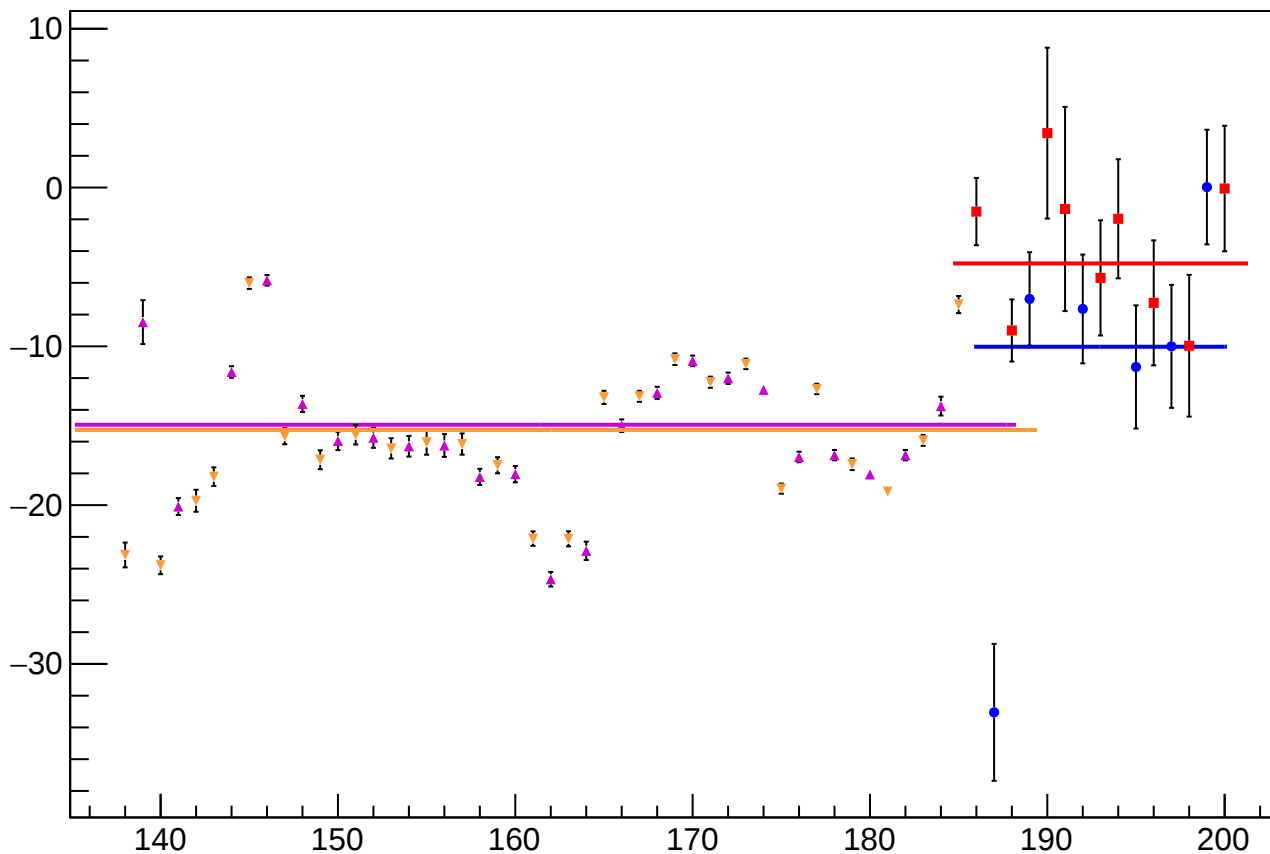
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.462 ± 0.806 $\chi^2/\text{NDF}: 428.9/5$
 Left Out: -40.563 ± 0.095 $\chi^2/\text{NDF}: 15637.6/24$
 Right Out: -78.055 ± 0.520 $\chi^2/\text{NDF}: 2667.2/8$
 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: -72.003 ± 0.437 $\chi^2/\text{NDF}: 3556.8/14$
 In: -40.295 ± 0.095 $\chi^2/\text{NDF}: 14816.0/28$
 Out: -41.767 ± 0.093 $\chi^2/\text{NDF}: 23334.2/33$
 All: -41.045 ± 0.067 $\chi^2/\text{NDF}: 38272.5/62$

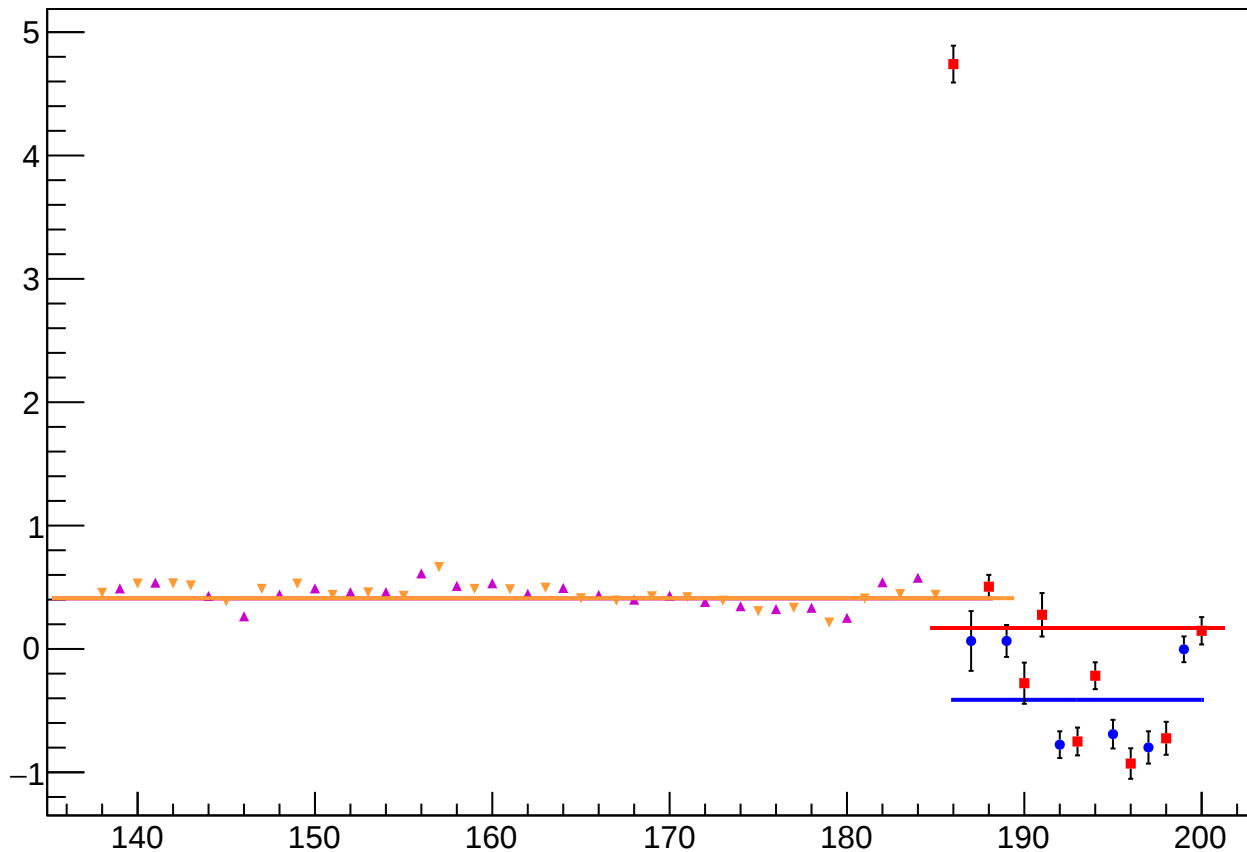
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.025 ± 1.467 χ^2/NDF : 37.9/5
 Left Out: -15.266 ± 0.086 χ^2/NDF : 2595.5/24
 Right Out: -4.776 ± 1.073 χ^2/NDF : 13.4/8
 Left In: -14.936 ± 0.087 χ^2/NDF : 2199.7/22

Left: -15.103 ± 0.061 χ^2/NDF : 4802.4/47
 Right: -6.604 ± 0.866 χ^2/NDF : 59.7/14
 In: -14.919 ± 0.087 χ^2/NDF : 2248.8/28
 Out: -15.199 ± 0.086 χ^2/NDF : 2703.9/33
 All: -15.061 ± 0.061 χ^2/NDF : 4958.0/62

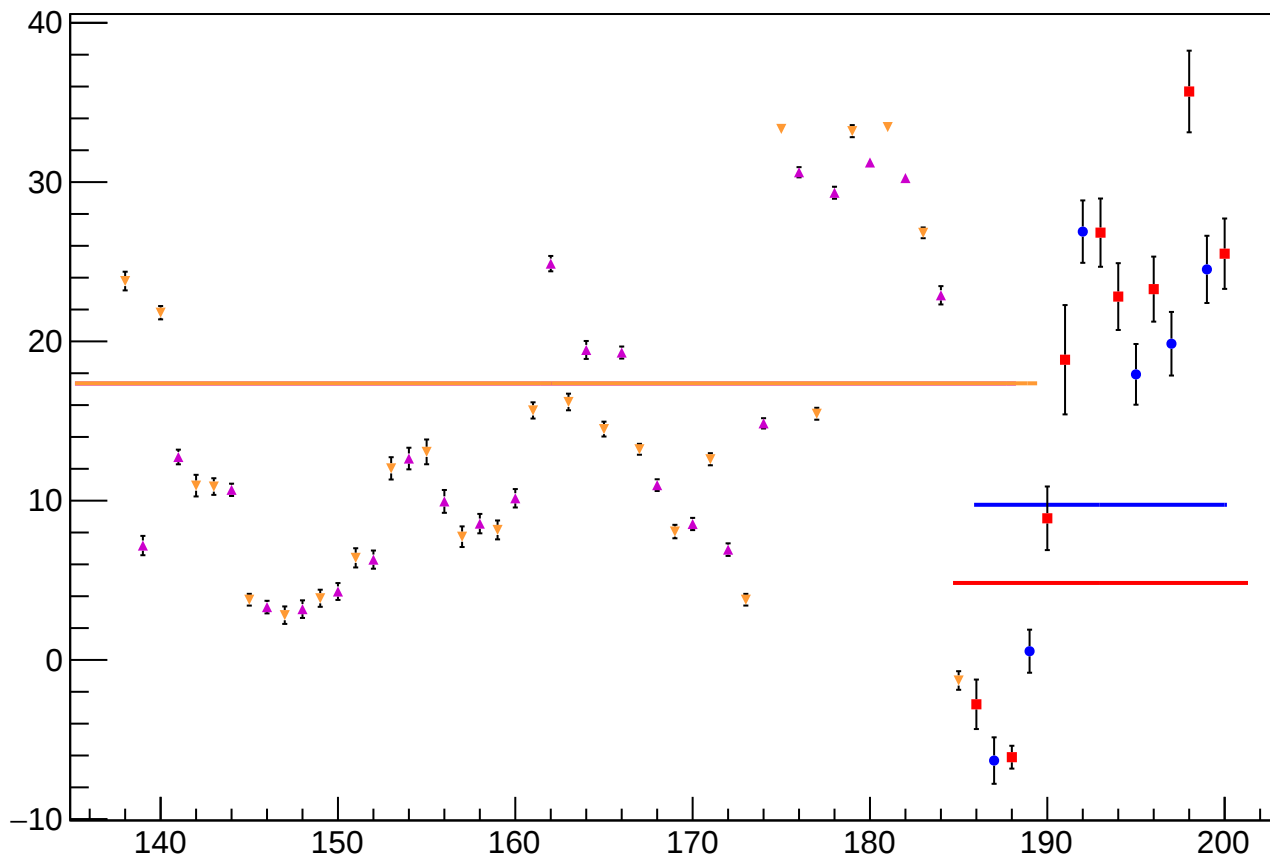
reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.412 ± 0.051 $\chi^2/\text{NDF}: 58.6/5$
 Left Out: 0.411 ± 0.004 $\chi^2/\text{NDF}: 428.7/24$
 Right Out: 0.170 ± 0.041 $\chi^2/\text{NDF}: 1159.4/8$
 Left In: 0.409 ± 0.004 $\chi^2/\text{NDF}: 557.8/22$

Left: 0.410 ± 0.003 $\chi^2/\text{NDF}: 986.7/47$
 Right: -0.061 ± 0.032 $\chi^2/\text{NDF}: 1297.0/14$
 In: 0.404 ± 0.004 $\chi^2/\text{NDF}: 875.6/28$
 Out: 0.409 ± 0.004 $\chi^2/\text{NDF}: 1622.1/33$
 All: 0.407 ± 0.003 $\chi^2/\text{NDF}: 2498.5/62$

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.741 ± 0.702 $\chi^2/\text{NDF}: 337.2/5$

Left Out: 17.367 ± 0.087 $\chi^2/\text{NDF}: 16337.6/24$

Right Out: 4.833 ± 0.517 $\chi^2/\text{NDF}: 770.8/8$

Left In: 17.355 ± 0.089 $\chi^2/\text{NDF}: 12745.1/22$

Left: 17.361 ± 0.062 $\chi^2/\text{NDF}: 29082.8/47$

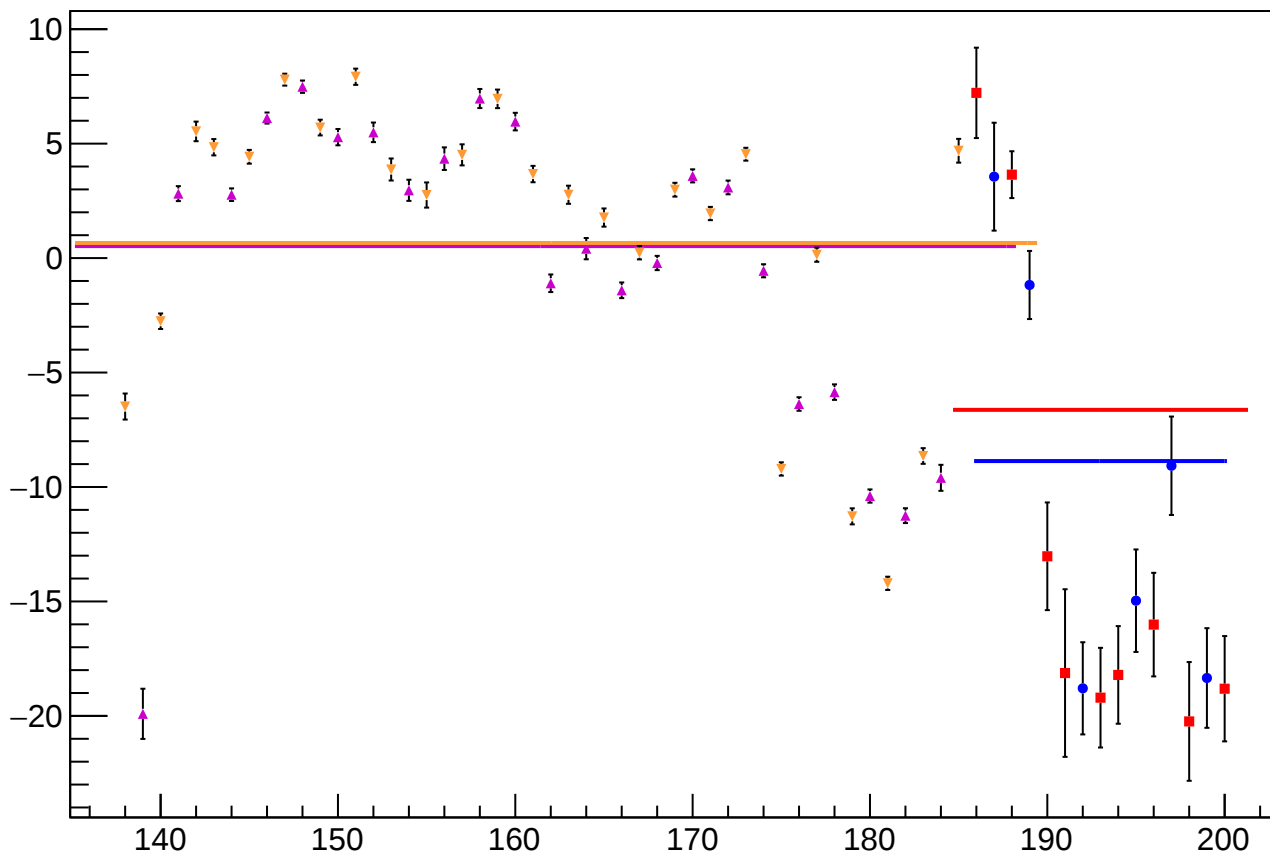
Right: 6.559 ± 0.416 $\chi^2/\text{NDF}: 1139.7/14$

In: 17.235 ± 0.088 $\chi^2/\text{NDF}: 13198.1/28$

Out: 17.022 ± 0.086 $\chi^2/\text{NDF}: 17679.6/33$

All: 17.125 ± 0.062 $\chi^2/\text{NDF}: 30880.7/62$

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.867 $\pm$ 0.815 χ^2 /NDF: 105.2/5

Left Out: 0.661 $\pm$ 0.069 χ^2 /NDF:8553.9/24

Right Out: -6.630 $\pm$ 0.641 χ^2 /NDF: 302.9/8

Left In: 0.524 $\pm$ 0.071 χ^2 /NDF:6729.7/22

Left: 0.594 $\pm$ 0.050 χ^2 /NDF: 15285.5/47

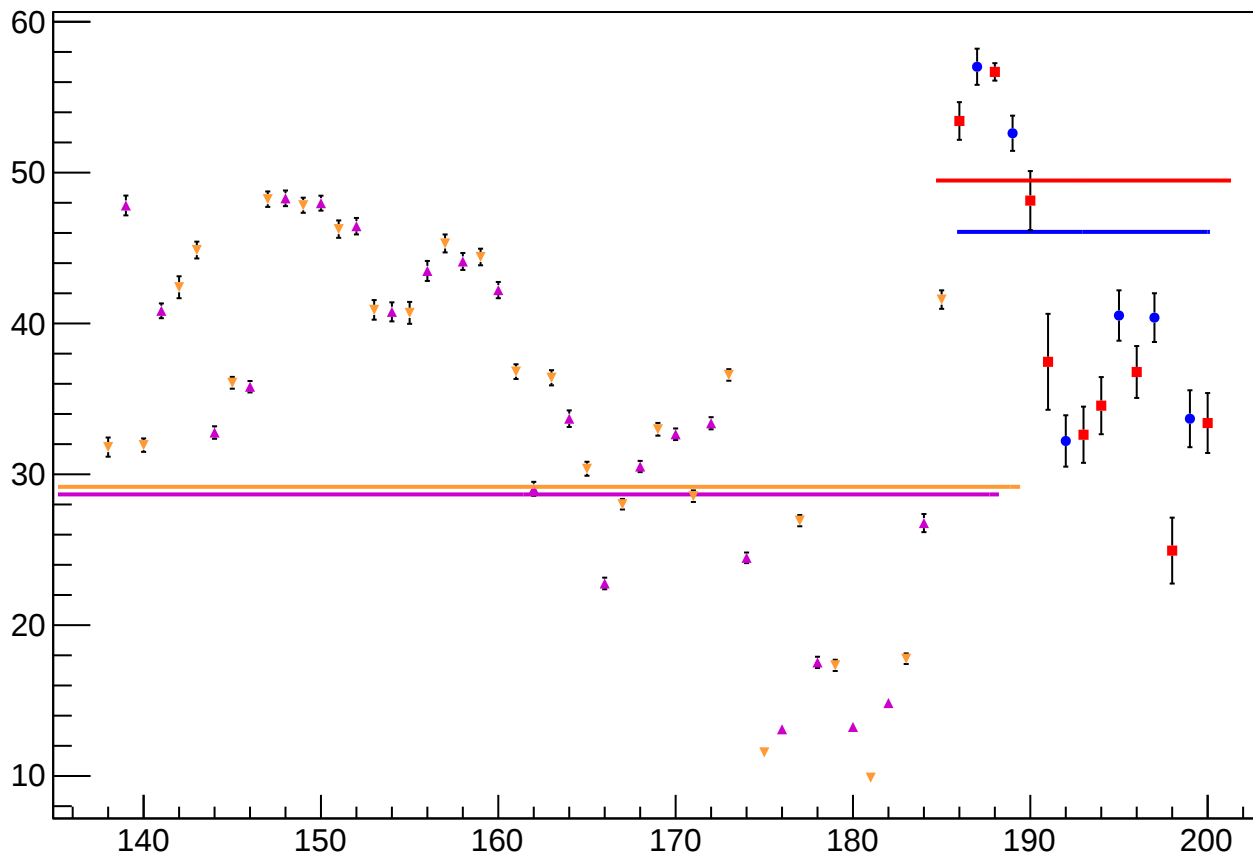
Right: -7.485 $\pm$ 0.504 χ^2 /NDF: 412.8/14

In: 0.454 $\pm$ 0.071 χ^2 /NDF:6966.7/28

Out: 0.576 $\pm$ 0.069 χ^2 /NDF:8984.5/33

All: 0.516 $\pm$ 0.049 χ^2 /NDF: 15952.7/62

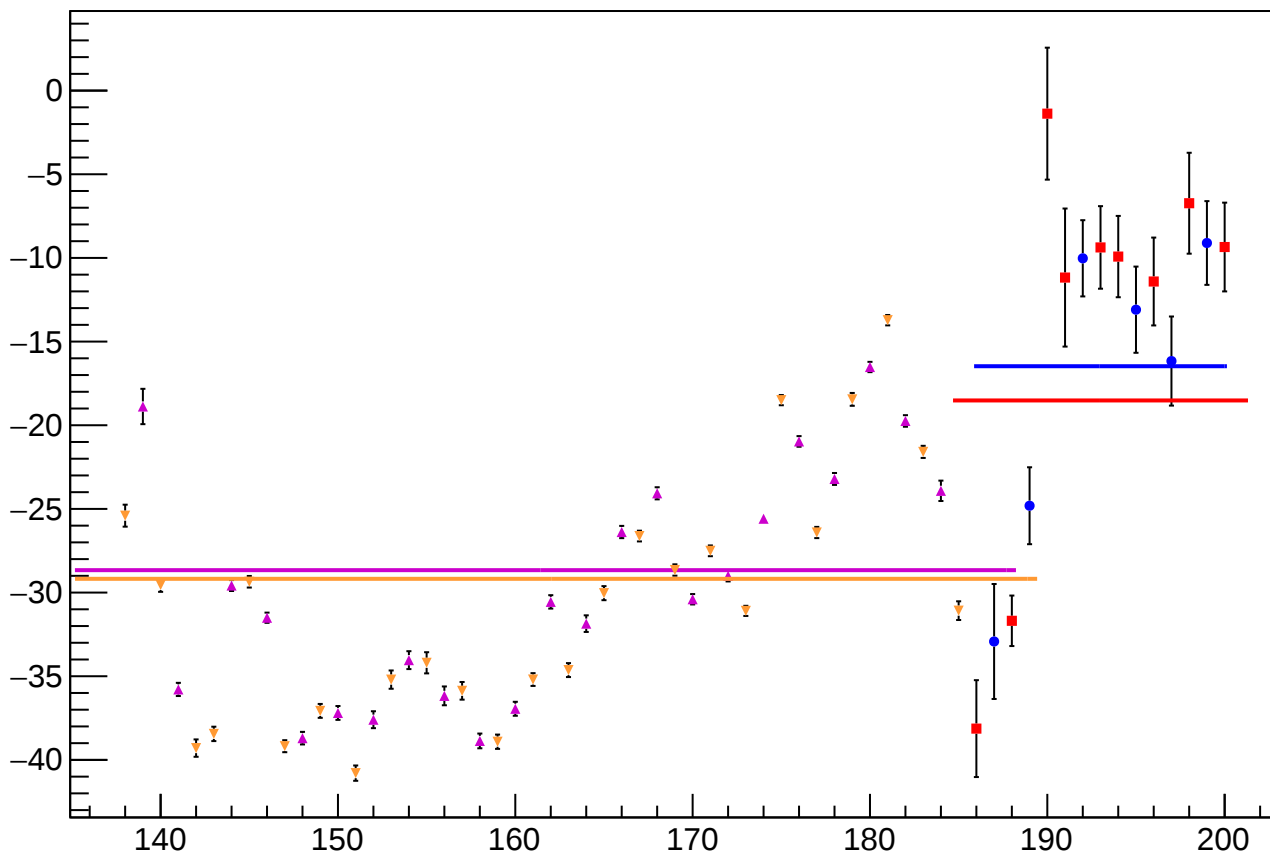
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 46.071 $\pm$ 0.598 χ^2 /NDF: 247.5/5
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 49.477 $\pm$ 0.432 χ^2 /NDF: 569.5/8
 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: 48.308 $\pm$ 0.350 χ^2 /NDF: 838.3/14
 In: 29.045 $\pm$ 0.088 χ^2 /NDF:17923.6/28
 Out: 29.976 $\pm$ 0.086 χ^2 /NDF:21665.3/33
 All: 29.522 $\pm$ 0.062 χ^2 /NDF: 39646.0/62

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



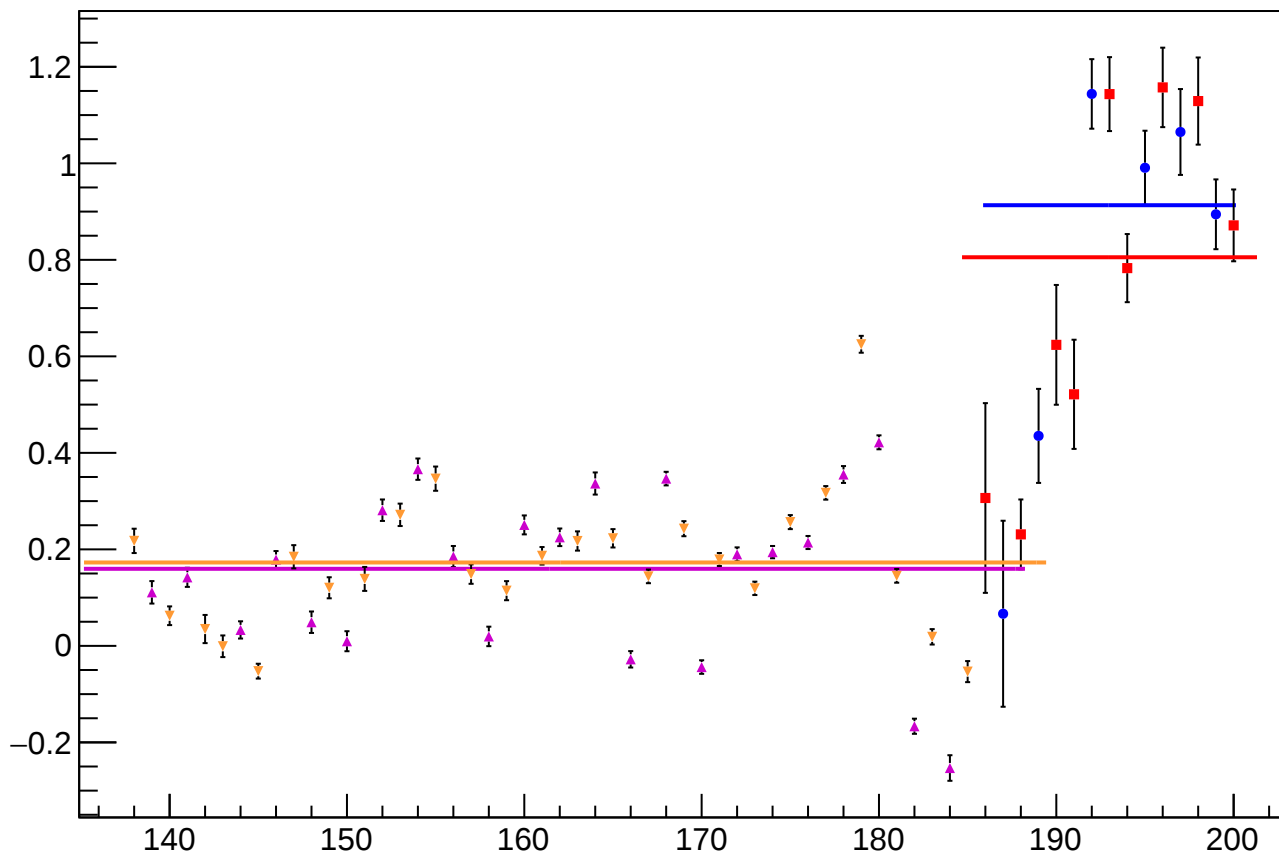
Right In: -16.473 ± 1.044 $\chi^2/\text{NDF}: 54.5/5$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -18.518 ± 0.841 $\chi^2/\text{NDF}: 204.9/8$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -17.712 ± 0.655 $\chi^2/\text{NDF}: 261.8/14$

In: -28.589 ± 0.080 $\chi^2/\text{NDF}: 6860.2/28$
 Out: -29.087 ± 0.078 $\chi^2/\text{NDF}: 9445.4/33$

All: -28.844 ± 0.056 $\chi^2/\text{NDF}: 16325.6/62$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.913 $\pm$ 0.035 χ^2 /NDF: 57.6/5

Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24

Right Out: 0.805 $\pm$ 0.029 χ^2 /NDF: 129.4/8

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

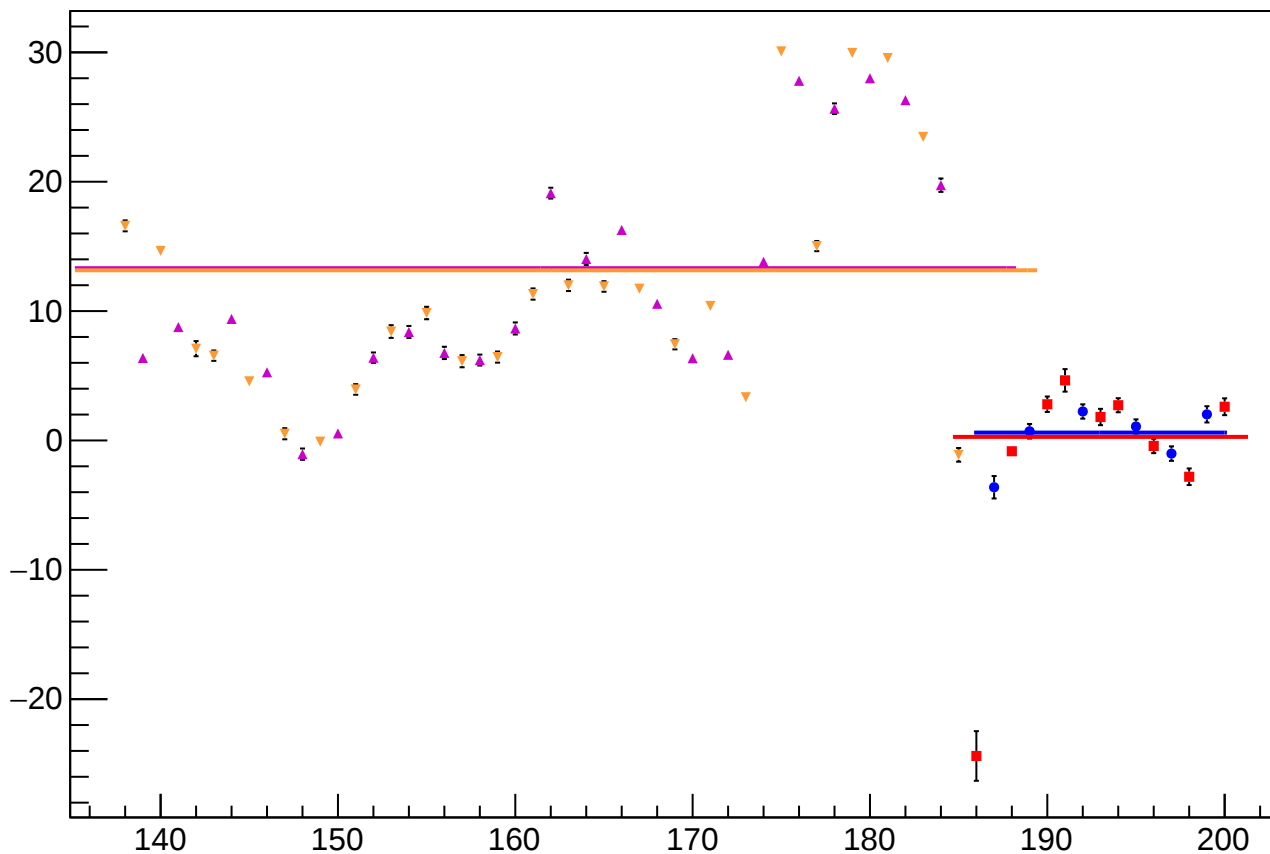
Right: 0.849 $\pm$ 0.022 χ^2 /NDF: 192.6/14

In: 0.168 $\pm$ 0.004 χ^2 /NDF:2571.5/28

Out: 0.182 $\pm$ 0.004 χ^2 /NDF:2073.6/33

All: 0.175 $\pm$ 0.003 χ^2 /NDF: 4653.2/62

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.607 $\pm$ 0.244 χ^2 /NDF: 46.6/5

Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24

Right Out: 0.275 $\pm$ 0.180 χ^2 /NDF: 287.2/8

Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47

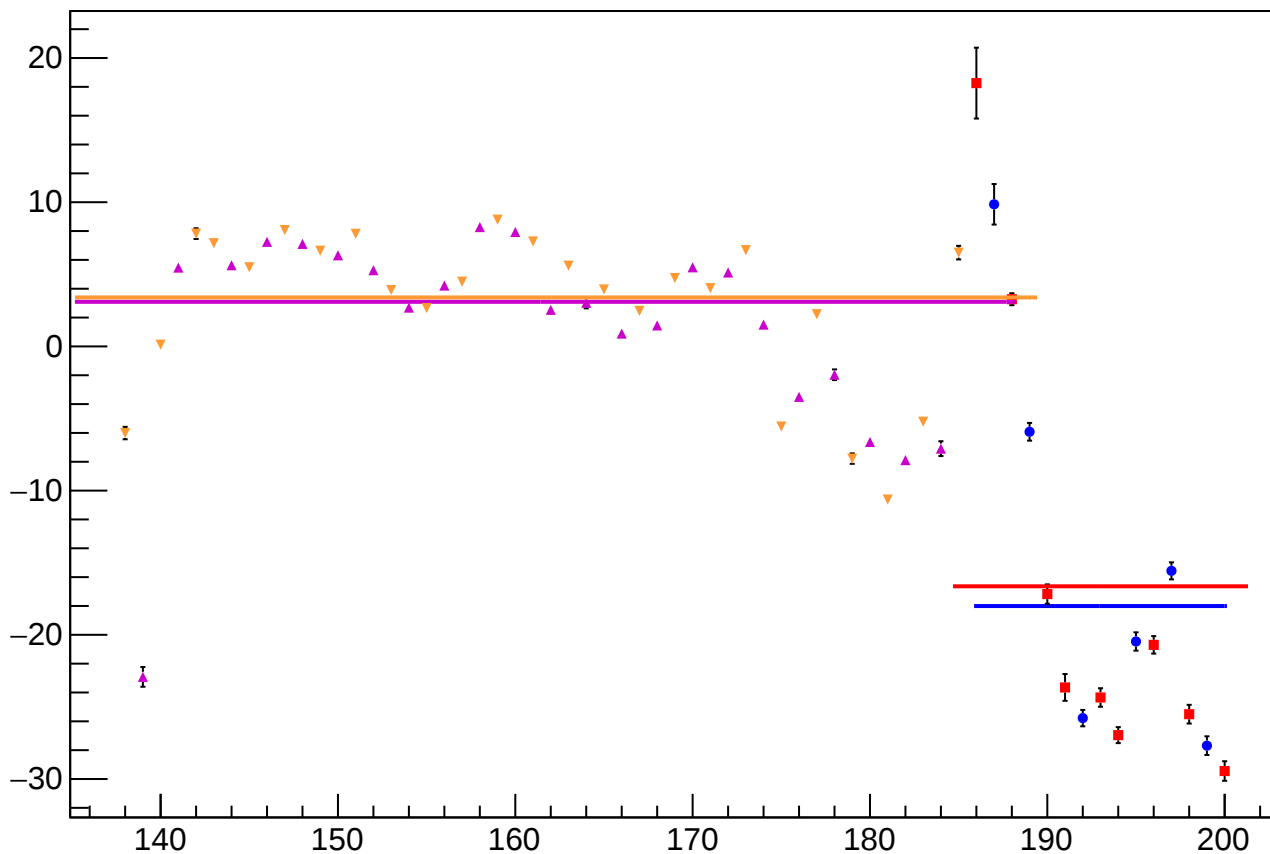
Right: 0.392 $\pm$ 0.145 χ^2 /NDF: 335.0/14

In: 12.164 $\pm$ 0.074 χ^2 /NDF:16485.1/28

Out: 11.238 $\pm$ 0.069 χ^2 /NDF:21725.7/33

All: 11.674 $\pm$ 0.050 χ^2 /NDF: 38294.6/62

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -18.006 ± 0.268 $\chi^2/\text{NDF}: 1222.3/5$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -16.637 ± 0.212 $\chi^2/\text{NDF}: 3647.9/8$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

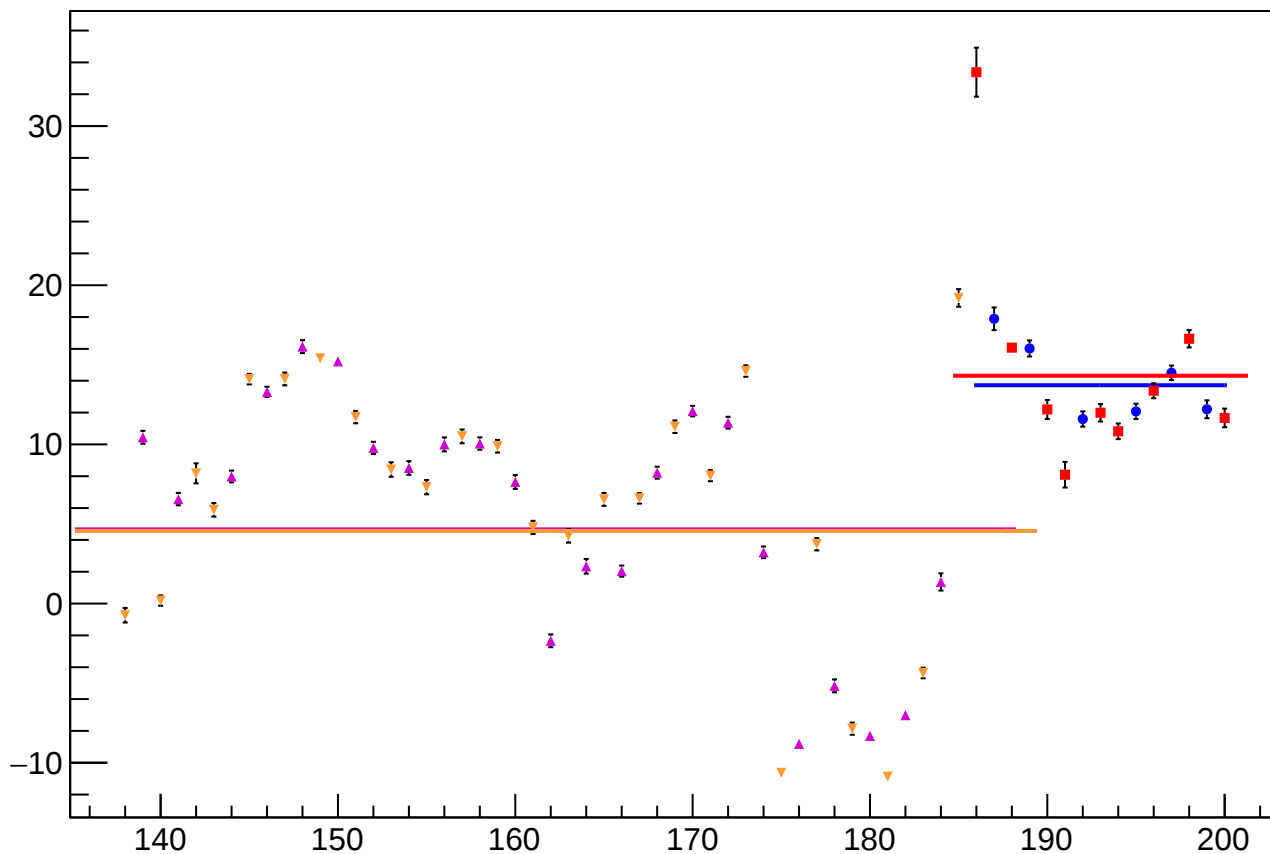
Right: -17.164 ± 0.166 $\chi^2/\text{NDF}: 4886.3/14$

In: 2.063 ± 0.059 $\chi^2/\text{NDF}: 14243.6/28$

Out: 1.979 ± 0.056 $\chi^2/\text{NDF}: 20077.4/33$

All: 2.019 ± 0.041 $\chi^2/\text{NDF}: 34322.1/62$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.717+/-0.212 χ^2/NDF : 95.9/5

Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24

Right Out: 14.314+/-0.154 χ^2/NDF : 395.9/8

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

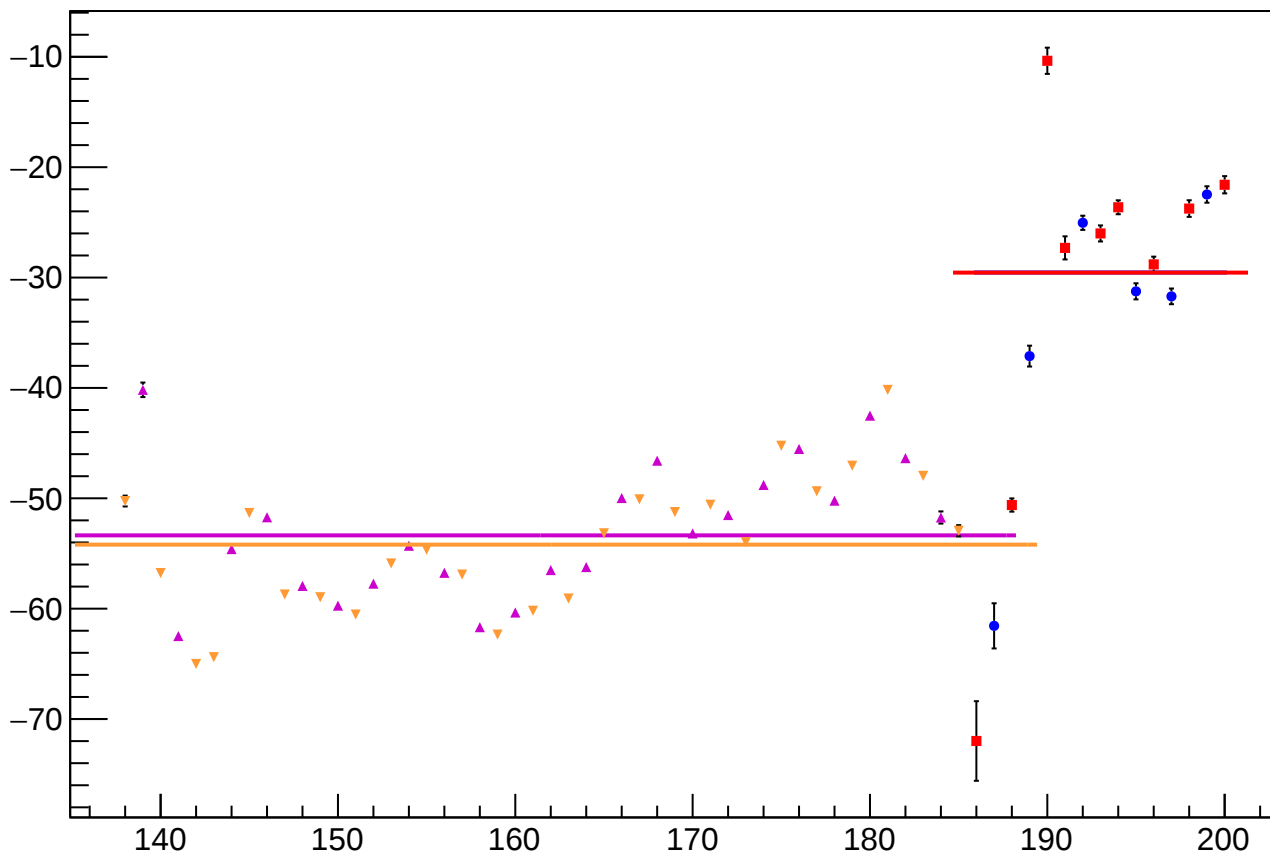
Right: 14.107+/-0.125 χ^2/NDF : 497.0/14

In: 5.715+/-0.072 χ^2/NDF :12993.5/28

Out: 6.445+/-0.068 χ^2/NDF :17222.1/33

All: 6.104+/-0.049 χ^2/NDF : 30270.1/62

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.543 ± 0.325 $\chi^2/\text{NDF}: 462.7/5$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -29.552 ± 0.264 $\chi^2/\text{NDF}: 1915.8/8$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

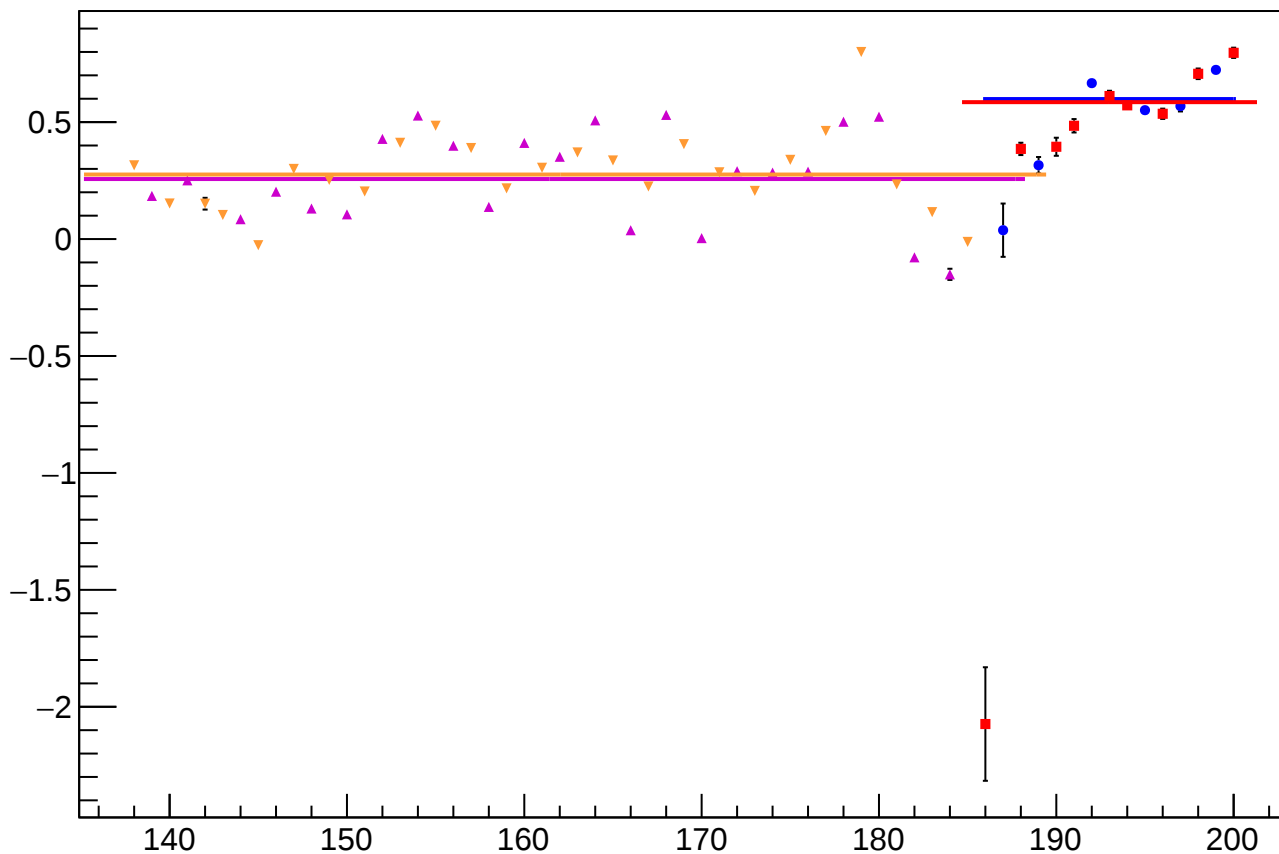
Right: -29.548 ± 0.205 $\chi^2/\text{NDF}: 2378.5/14$

In: -52.349 ± 0.067 $\chi^2/\text{NDF}: 12472.2/28$

Out: -52.736 ± 0.064 $\chi^2/\text{NDF}: 18549.7/33$

All: -52.550 ± 0.046 $\chi^2/\text{NDF}: 31039.2/62$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.599 ± 0.010 χ^2/NDF : 140.4/5

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.585 ± 0.008 χ^2/NDF : 342.8/8

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

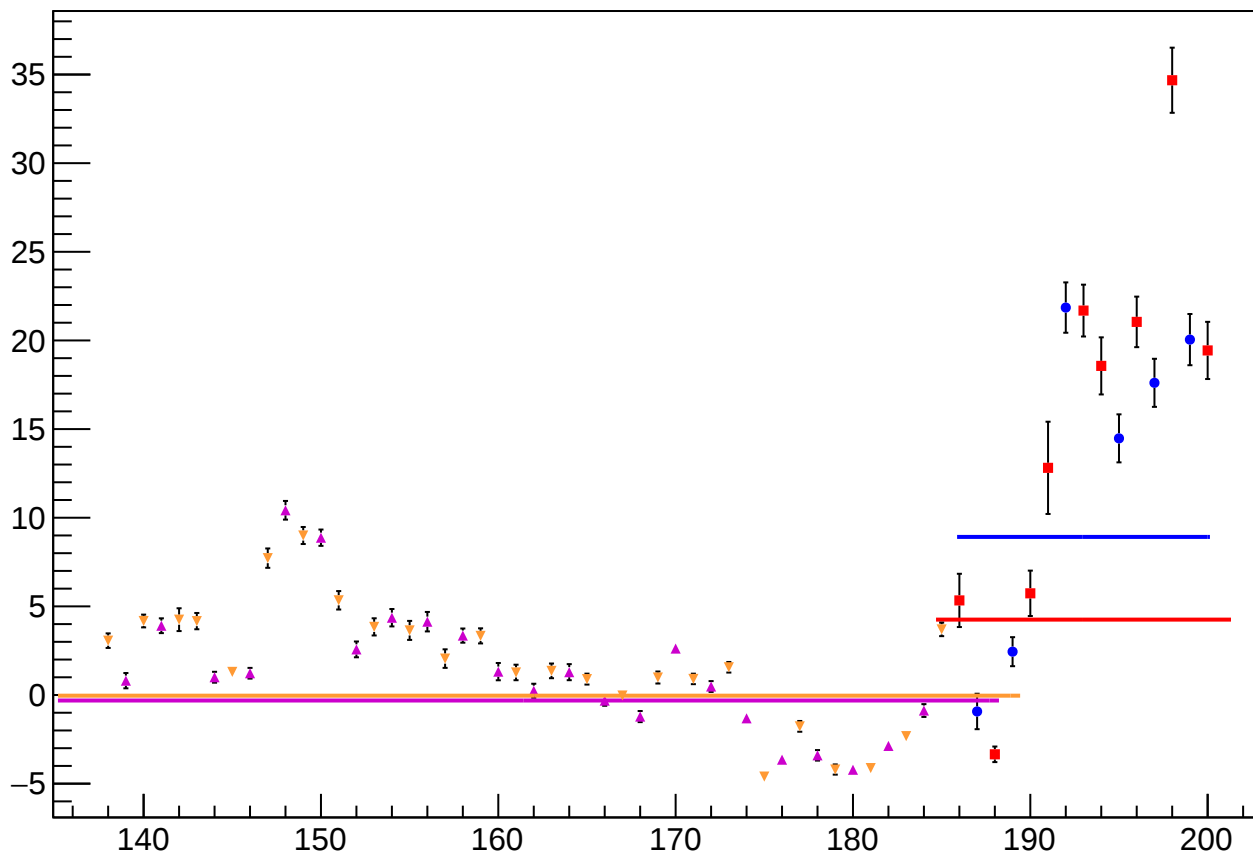
Right: 0.591 ± 0.006 χ^2/NDF : 484.1/14

In: 0.285 ± 0.003 χ^2/NDF : 4784.8/28

Out: 0.312 ± 0.003 χ^2/NDF : 4181.7/33

All: 0.299 ± 0.002 χ^2/NDF : 9009.4/62

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.918 ± 0.468 χ^2/NDF : 359.8/5

Left Out: -0.037 ± 0.066 χ^2/NDF : 2637.7/24

Right Out: 4.253 ± 0.345 χ^2/NDF : 1035.2/8

Left In: -0.310 ± 0.067 χ^2/NDF : 2250.5/22

Left: -0.171 ± 0.047 χ^2/NDF : 4896.5/47

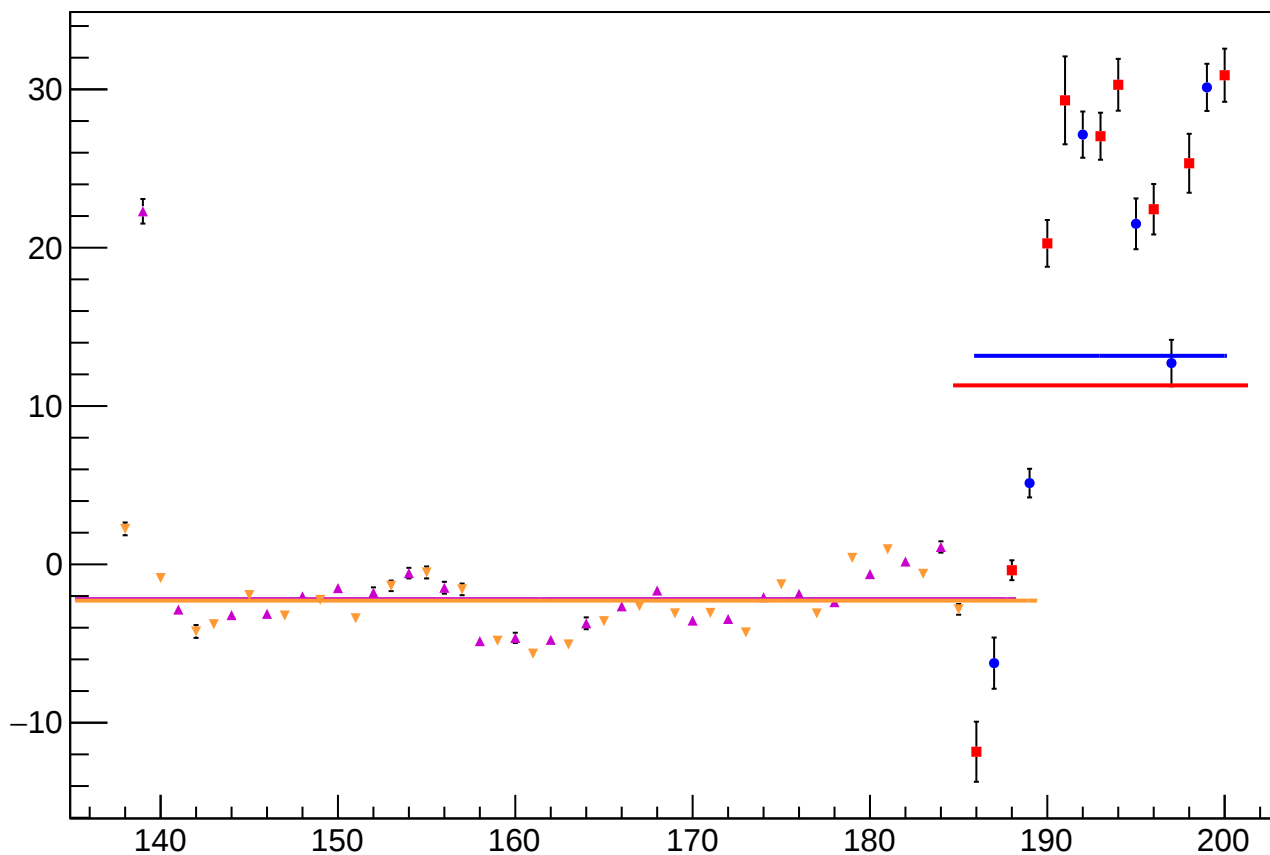
Right: 5.892 ± 0.278 χ^2/NDF : 1459.4/14

In: -0.123 ± 0.067 χ^2/NDF : 2990.5/28

Out: 0.115 ± 0.065 χ^2/NDF : 3822.3/33

All: -0.001 ± 0.046 χ^2/NDF : 6819.4/62

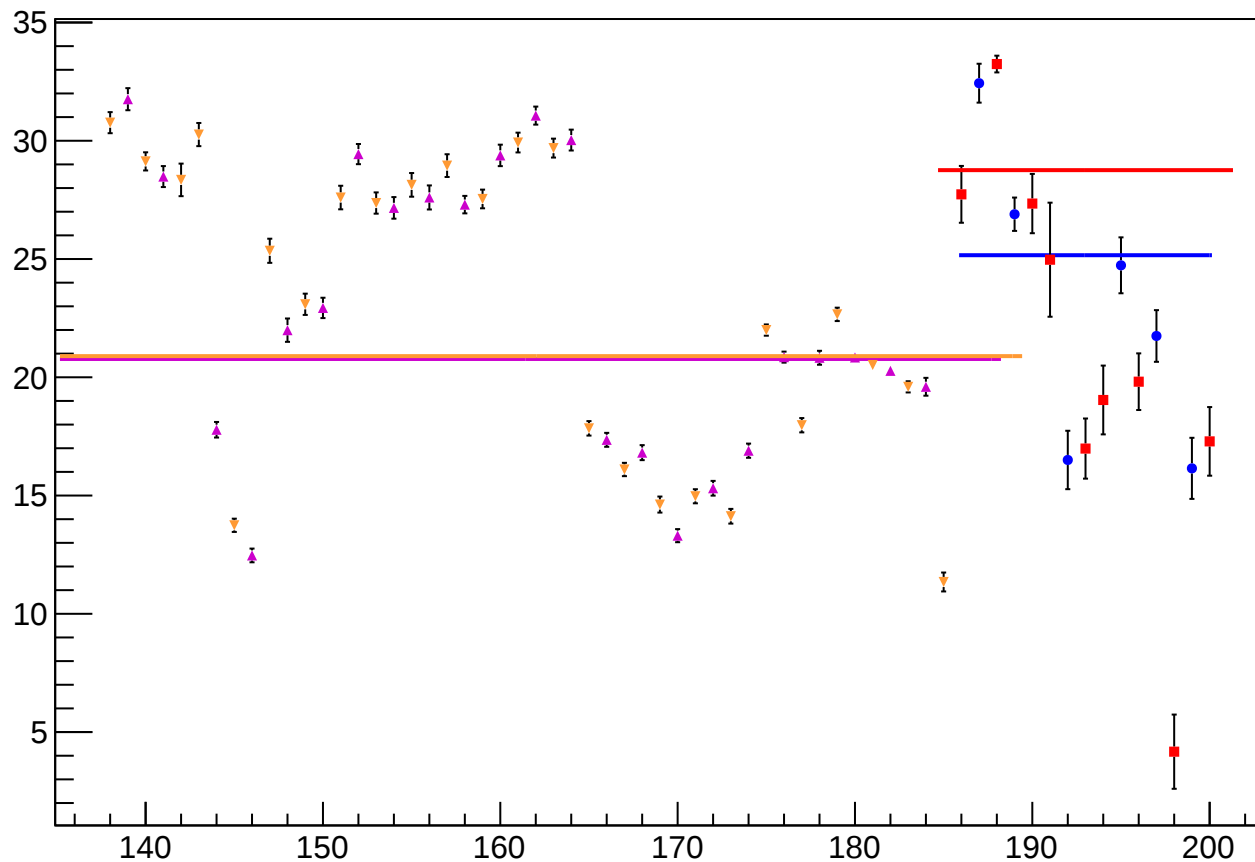
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.172 ± 0.544 $\chi^2/\text{NDF}: 471.1/5$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 11.304 ± 0.436 $\chi^2/\text{NDF}: 1061.8/8$
 Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$
 Right: 12.034 ± 0.340 $\chi^2/\text{NDF}: 1540.0/14$
 In: -2.042 ± 0.055 $\chi^2/\text{NDF}: 2934.5/28$
 Out: -2.081 ± 0.054 $\chi^2/\text{NDF}: 3157.7/33$
 All: -2.062 ± 0.038 $\chi^2/\text{NDF}: 6092.5/62$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.161 $\pm$ 0.398 χ^2 /NDF: 192.1/5

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 28.758 $\pm$ 0.287 χ^2 /NDF: 659.2/8

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

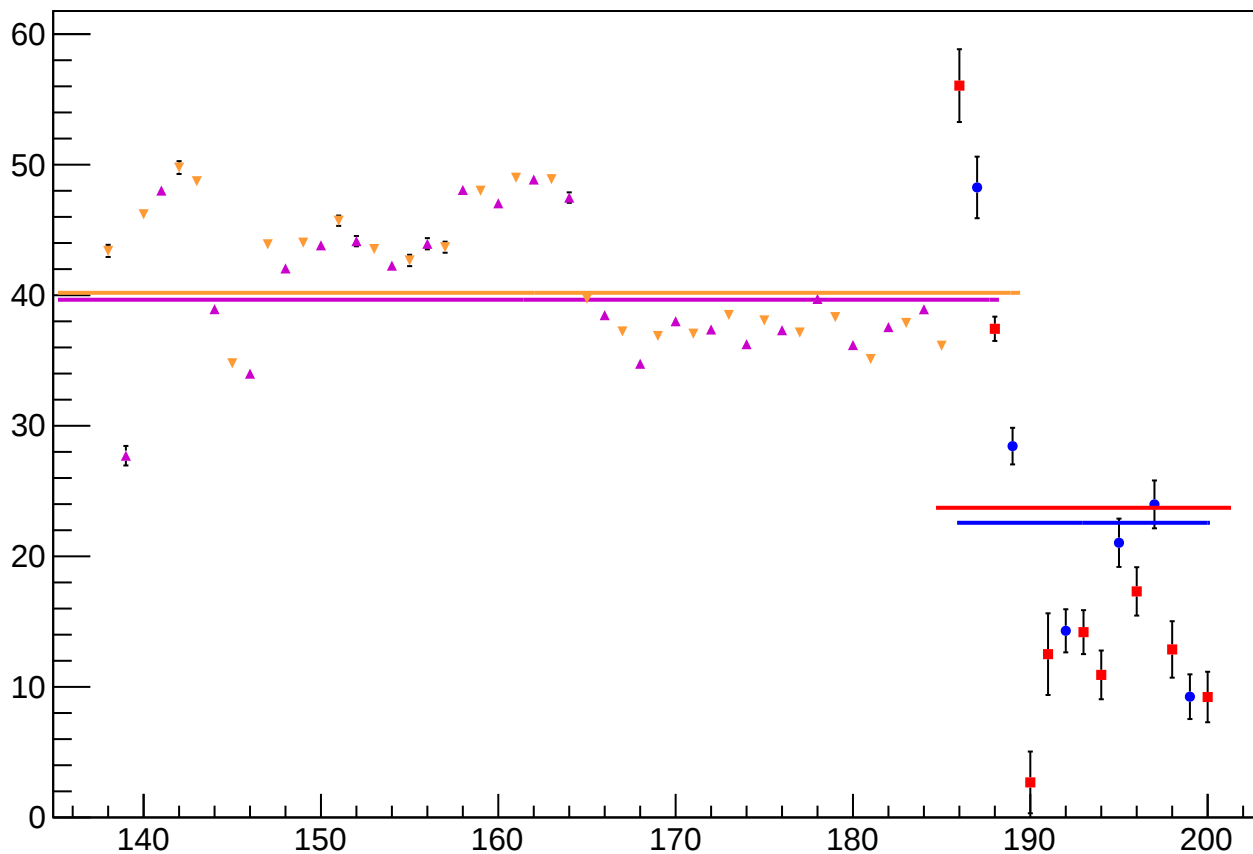
Right: 27.529 $\pm$ 0.233 χ^2 /NDF: 904.9/14

In: 20.897 $\pm$ 0.067 χ^2 /NDF:6237.8/28

Out: 21.297 $\pm$ 0.065 χ^2 /NDF:8027.5/33

All: 21.102 $\pm$ 0.046 χ^2 /NDF: 14283.8/62

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.570 $\pm$ 0.710 χ^2 /NDF: 223.1/5

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 23.720 $\pm$ 0.579 χ^2 /NDF: 616.0/8

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

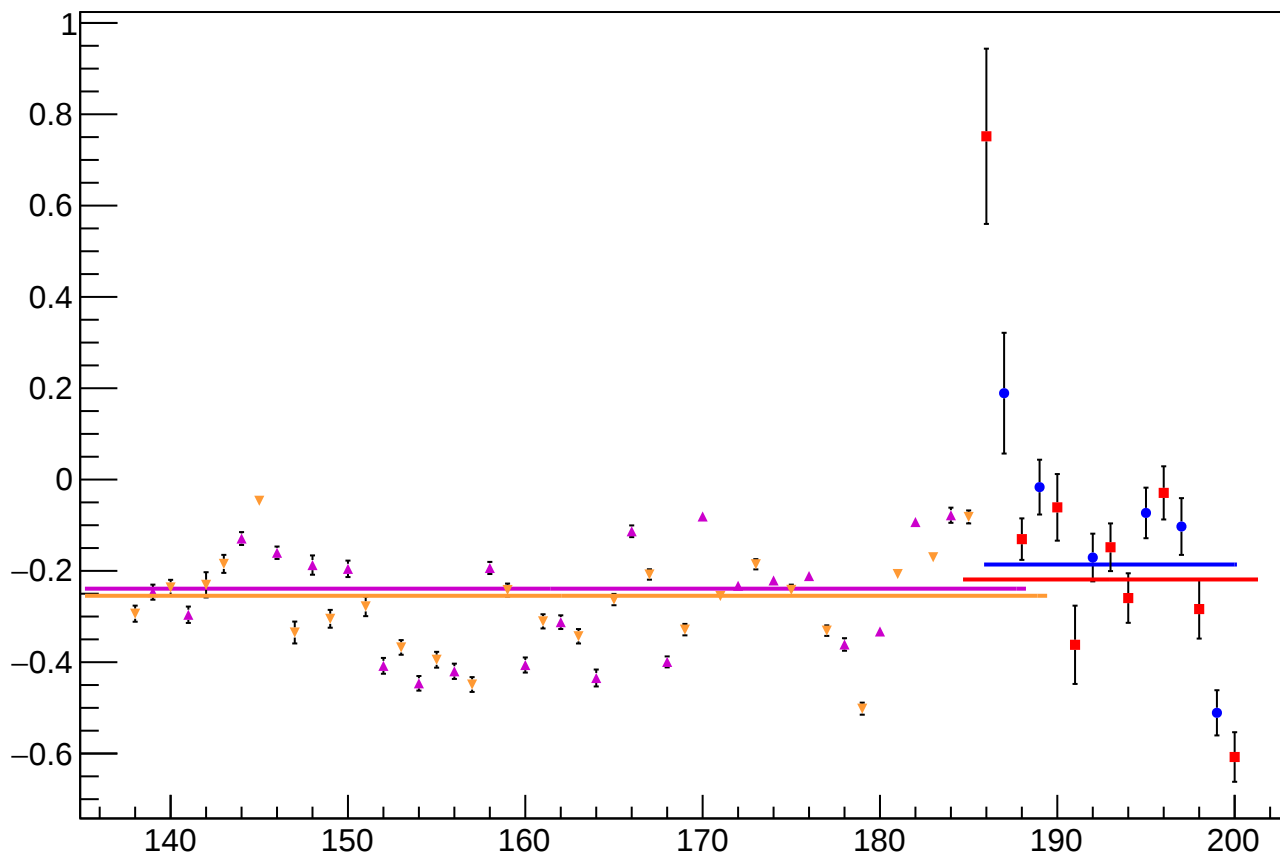
Right: 23.260 $\pm$ 0.449 χ^2 /NDF: 840.7/14

In: 39.528 $\pm$ 0.061 χ^2 /NDF: 6097.1/28

Out: 40.009 $\pm$ 0.060 χ^2 /NDF: 7347.6/33

All: 39.773 $\pm$ 0.043 χ^2 /NDF: 13476.2/62

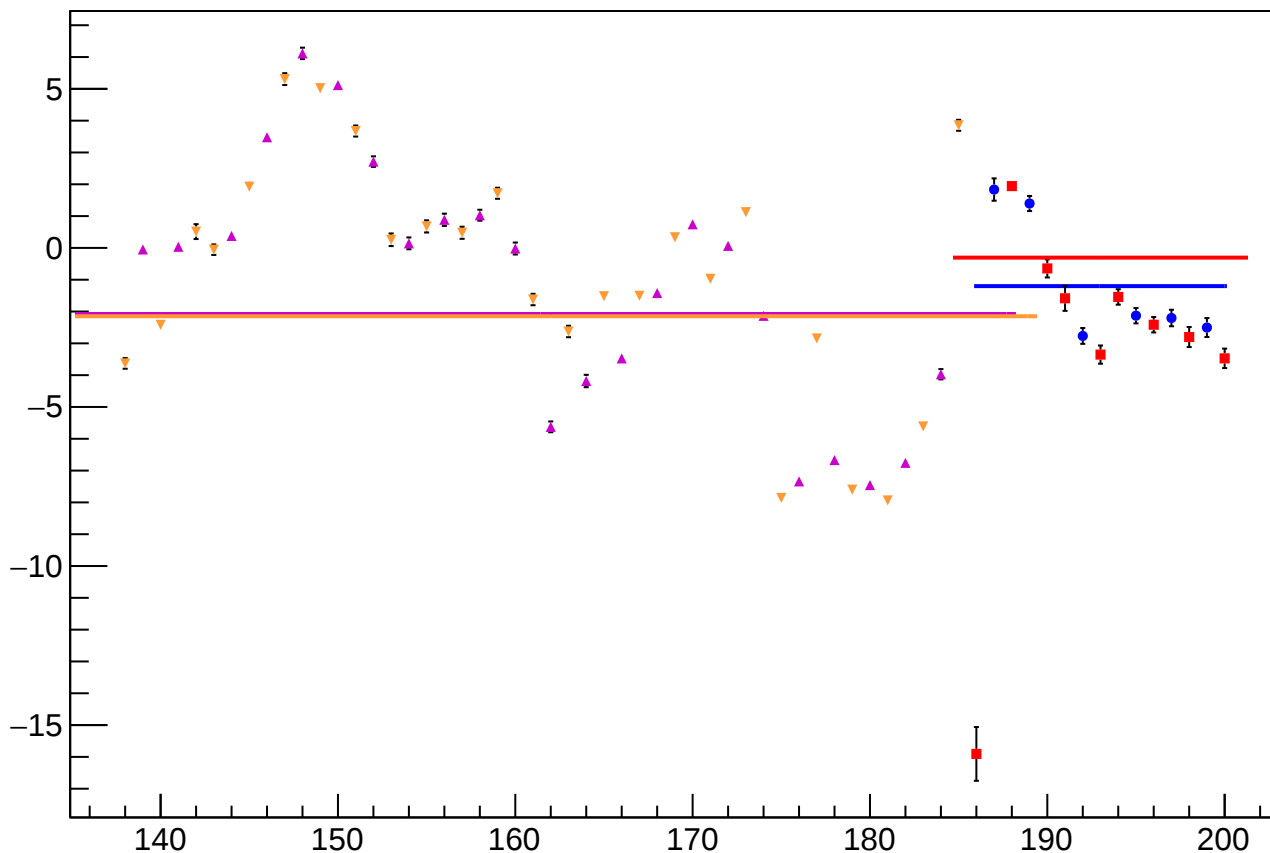
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.186 ± 0.024 χ^2/NDF : 65.1/5
 Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24
 Right Out: -0.219 ± 0.020 χ^2/NDF : 102.1/8
 Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47
 Right: -0.205 ± 0.016 χ^2/NDF : 168.3/14
 In: -0.238 ± 0.003 χ^2/NDF : 1820.3/28
 Out: -0.254 ± 0.003 χ^2/NDF : 1525.6/33
 All: -0.246 ± 0.002 χ^2/NDF : 3362.0/62

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

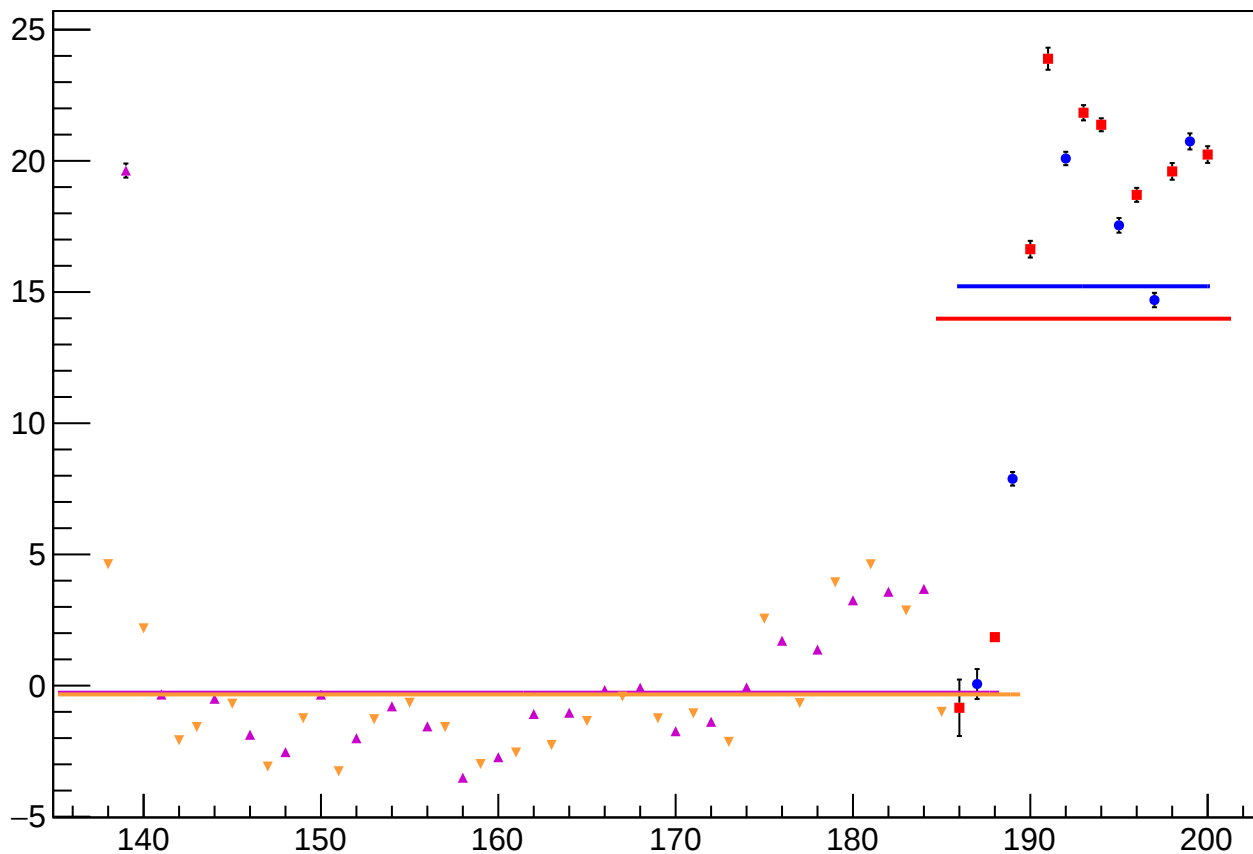


Right In: -1.201 ± 0.108 χ^2/NDF : 282.9/5
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.305 ± 0.077 χ^2/NDF : 1157.2/8
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.604 ± 0.063 χ^2/NDF : 1485.7/14
 In: -2.030 ± 0.025 χ^2/NDF : 23590.6/28
 Out: -1.963 ± 0.024 χ^2/NDF : 26213.3/33

All: -1.995 ± 0.018 χ^2/NDF : 49807.5/62

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.219+/-0.120 χ^2/NDF : 2266.5/5

Left Out: -0.335+/-0.021 χ^2/NDF : 12596.1/24

Right Out: 13.985+/-0.093 χ^2/NDF : 9095.5/8

Left In: -0.269+/-0.021 χ^2/NDF : 13323.1/22

Left: -0.303+/-0.015 χ^2/NDF : 25924.2/47

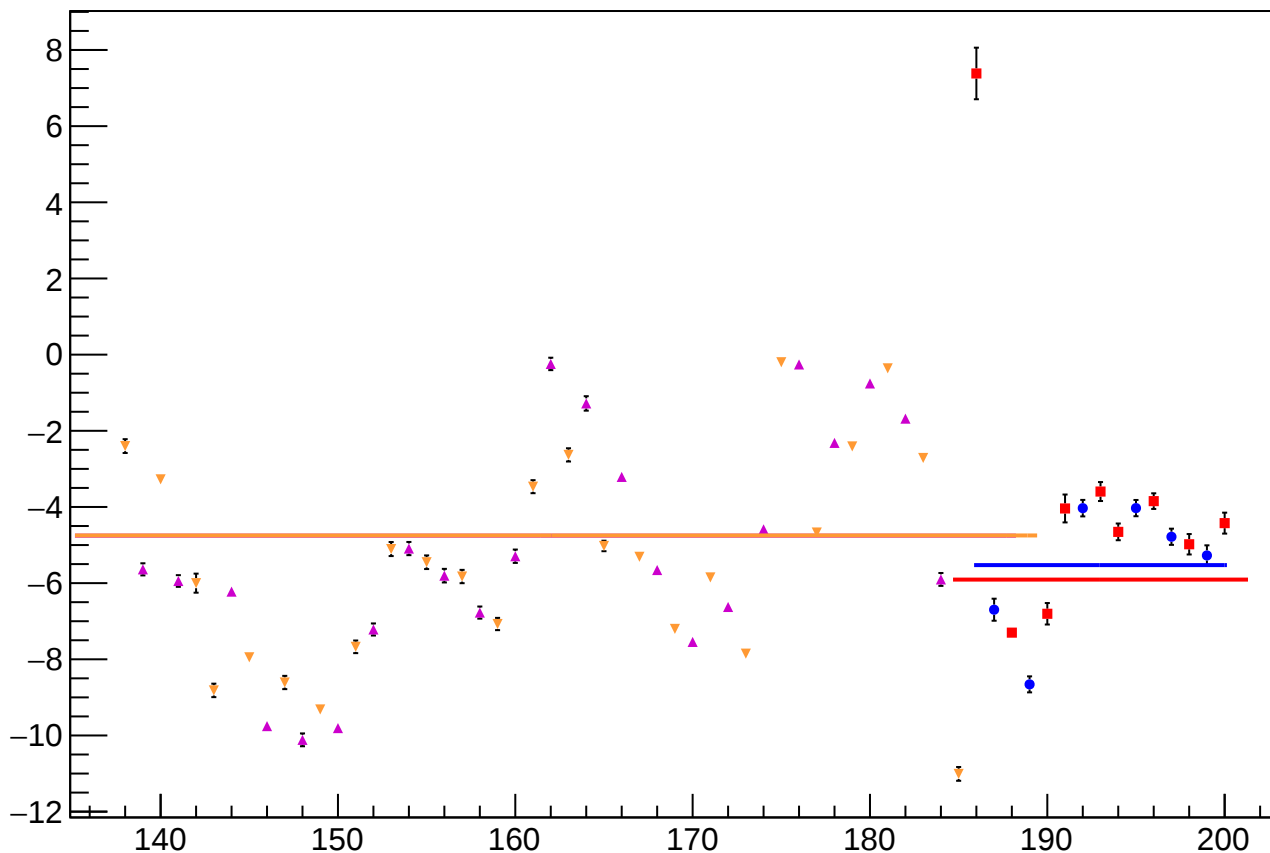
Right: 14.447+/-0.073 χ^2/NDF : 11428.6/14

In: 0.191+/-0.021 χ^2/NDF : 31855.5/28

Out: 0.339+/-0.020 χ^2/NDF : 44492.2/33

All: 0.267+/-0.014 χ^2/NDF : 76374.2/62

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

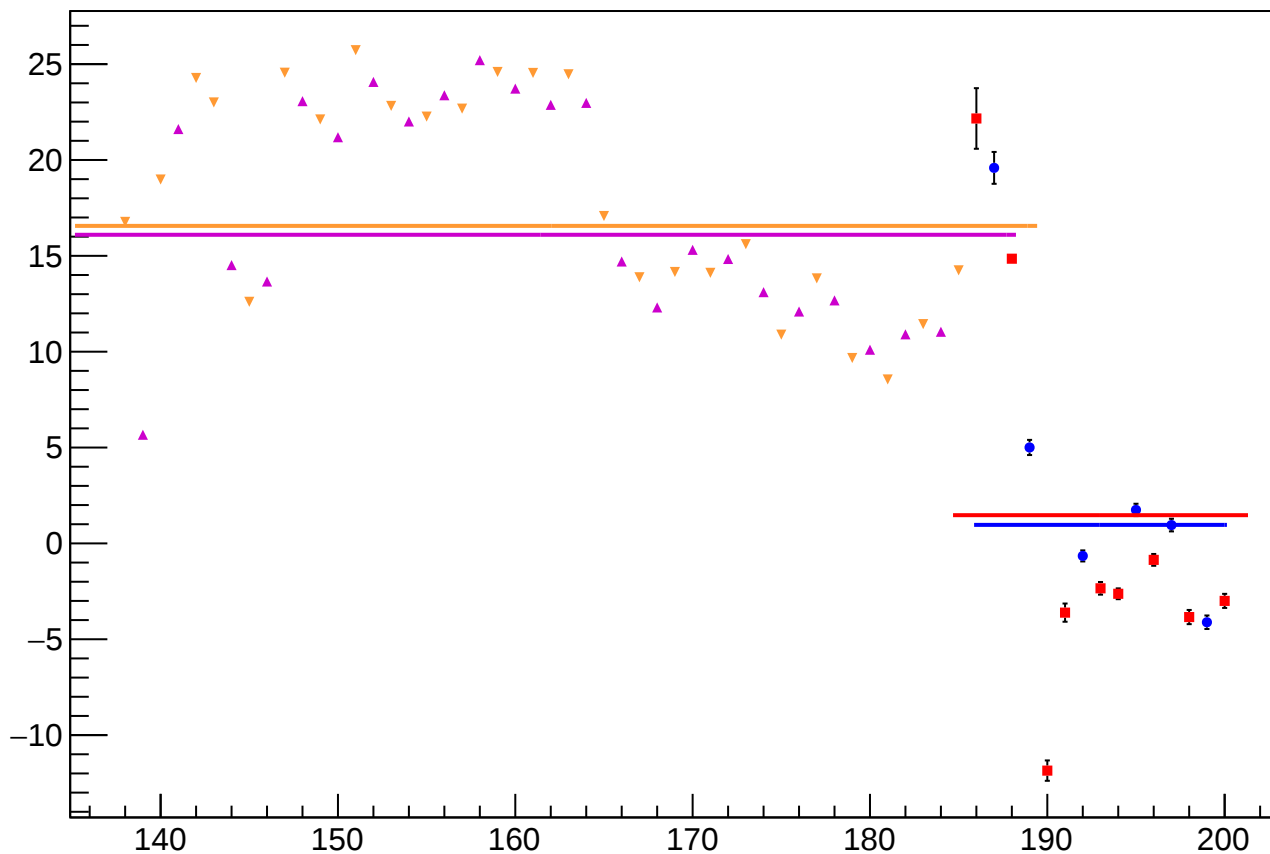


Right In: -5.526 ± 0.094 $\chi^2/\text{NDF}: 348.3/5$
 Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$
 Right Out: -5.907 ± 0.065 $\chi^2/\text{NDF}: 927.1/8$
 Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$
 Right: -5.783 ± 0.053 $\chi^2/\text{NDF}: 1286.5/14$
 In: -4.809 ± 0.025 $\chi^2/\text{NDF}: 14530.8/28$
 Out: -4.906 ± 0.024 $\chi^2/\text{NDF}: 14491.1/33$

All: -4.860 ± 0.017 $\chi^2/\text{NDF}: 29029.7/62$

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.966 ± 0.146 $\chi^2/\text{NDF}: 850.8/5$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 1.472 ± 0.117 $\chi^2/\text{NDF}: 4941.6/8$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

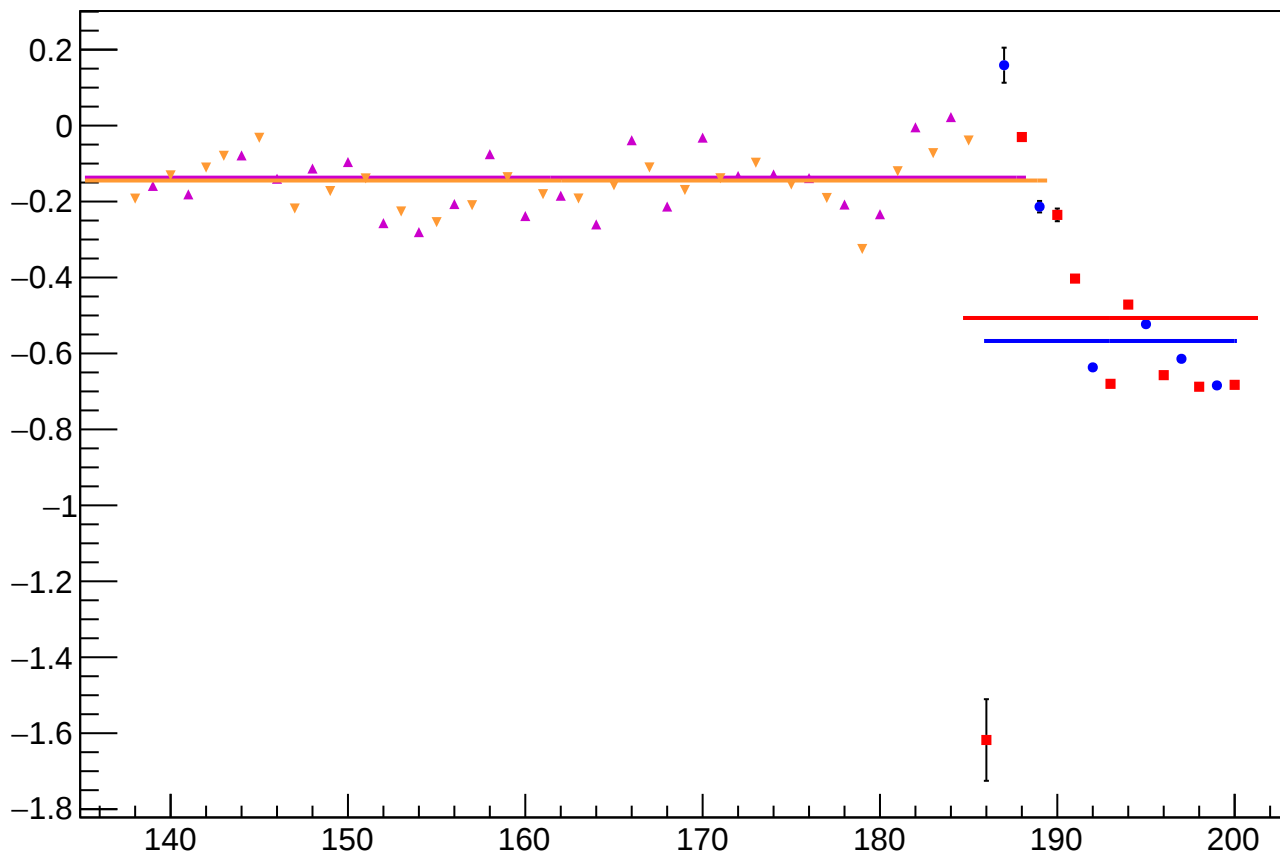
Right: 1.276 ± 0.091 $\chi^2/\text{NDF}: 5799.7/14$

In: 15.716 ± 0.023 $\chi^2/\text{NDF}: 53610.8/28$

Out: 15.990 ± 0.023 $\chi^2/\text{NDF}: 74933.2/33$

All: 15.856 ± 0.016 $\chi^2/\text{NDF}: 128614.9/62$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.567 ± 0.005 $\chi^2/\text{NDF}: 1024.4/5$

Left Out: -0.145 ± 0.001 $\chi^2/\text{NDF}: 3769.7/24$

Right Out: -0.507 ± 0.004 $\chi^2/\text{NDF}: 3633.4/8$

Left In: -0.137 ± 0.001 $\chi^2/\text{NDF}: 5392.6/22$

Left: -0.141 ± 0.001 $\chi^2/\text{NDF}: 9187.6/47$

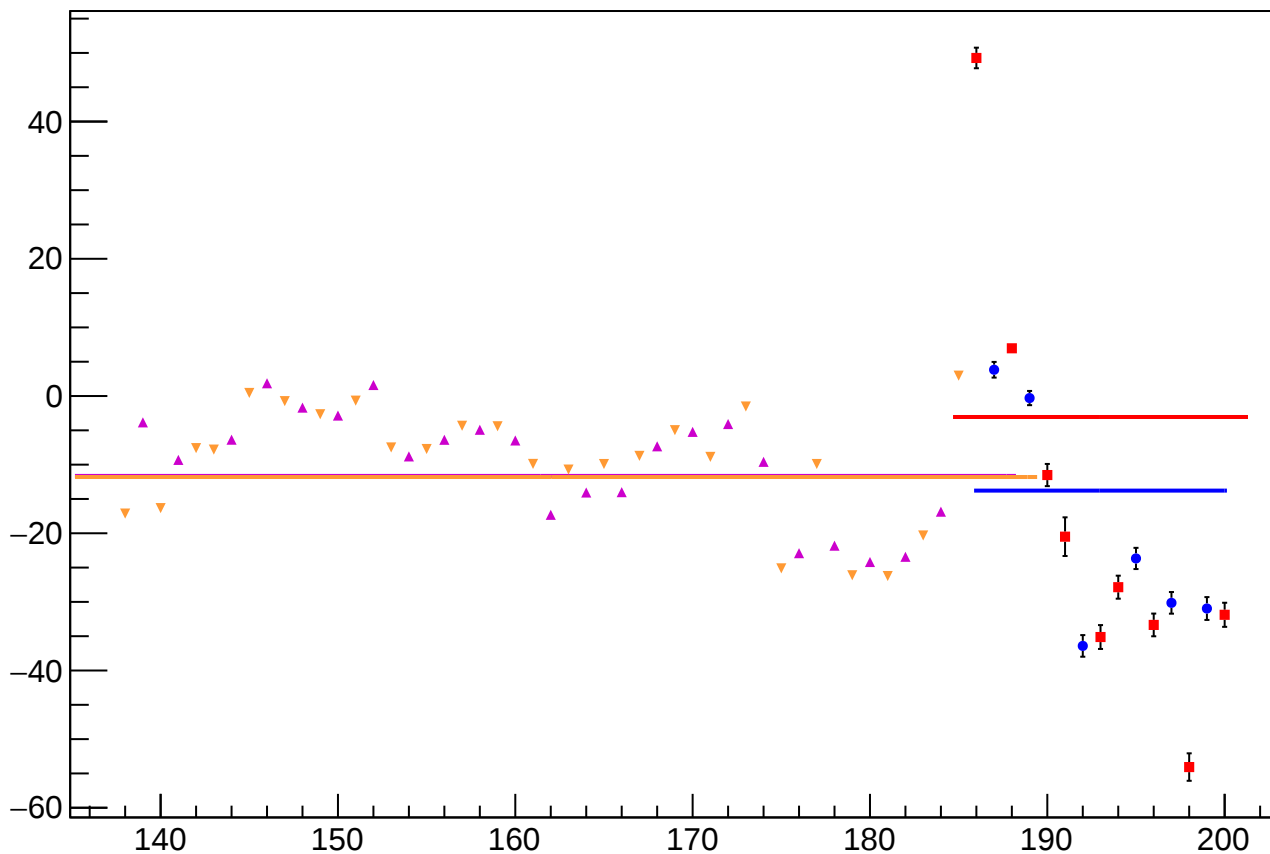
Right: -0.530 ± 0.003 $\chi^2/\text{NDF}: 4760.9/14$

In: -0.159 ± 0.001 $\chi^2/\text{NDF}: 14552.4/28$

Out: -0.171 ± 0.001 $\chi^2/\text{NDF}: 16080.1/33$

All: -0.165 ± 0.001 $\chi^2/\text{NDF}: 30706.1/62$

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.783 ± 0.552 $\chi^2/\text{NDF}: 868.1/5$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -3.055 ± 0.407 $\chi^2/\text{NDF}: 3443.4/8$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$

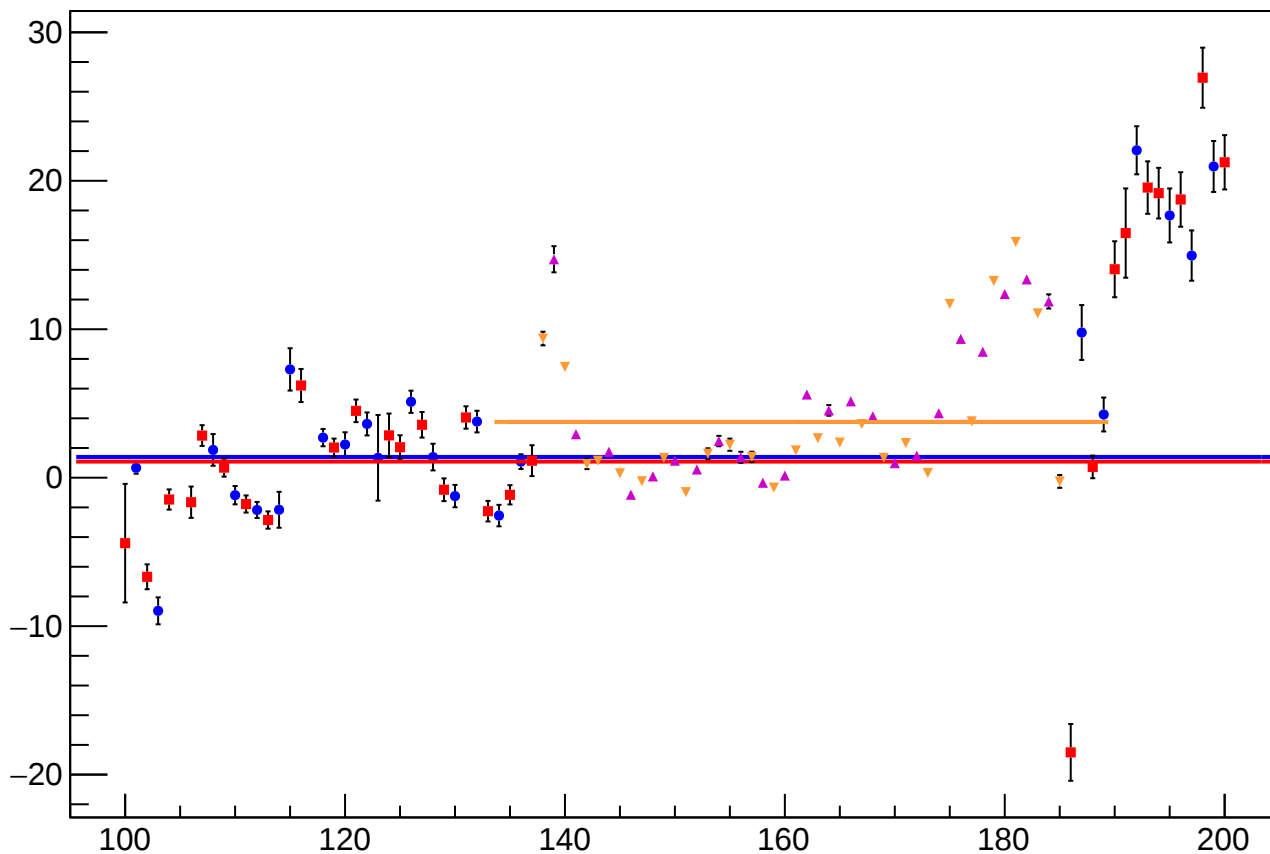
Right: -6.828 ± 0.327 $\chi^2/\text{NDF}: 4556.3/14$

In: -11.677 ± 0.071 $\chi^2/\text{NDF}: 15004.1/28$

Out: -11.548 ± 0.069 $\chi^2/\text{NDF}: 21200.8/33$

All: -11.611 ± 0.050 $\chi^2/\text{NDF}: 36206.6/62$

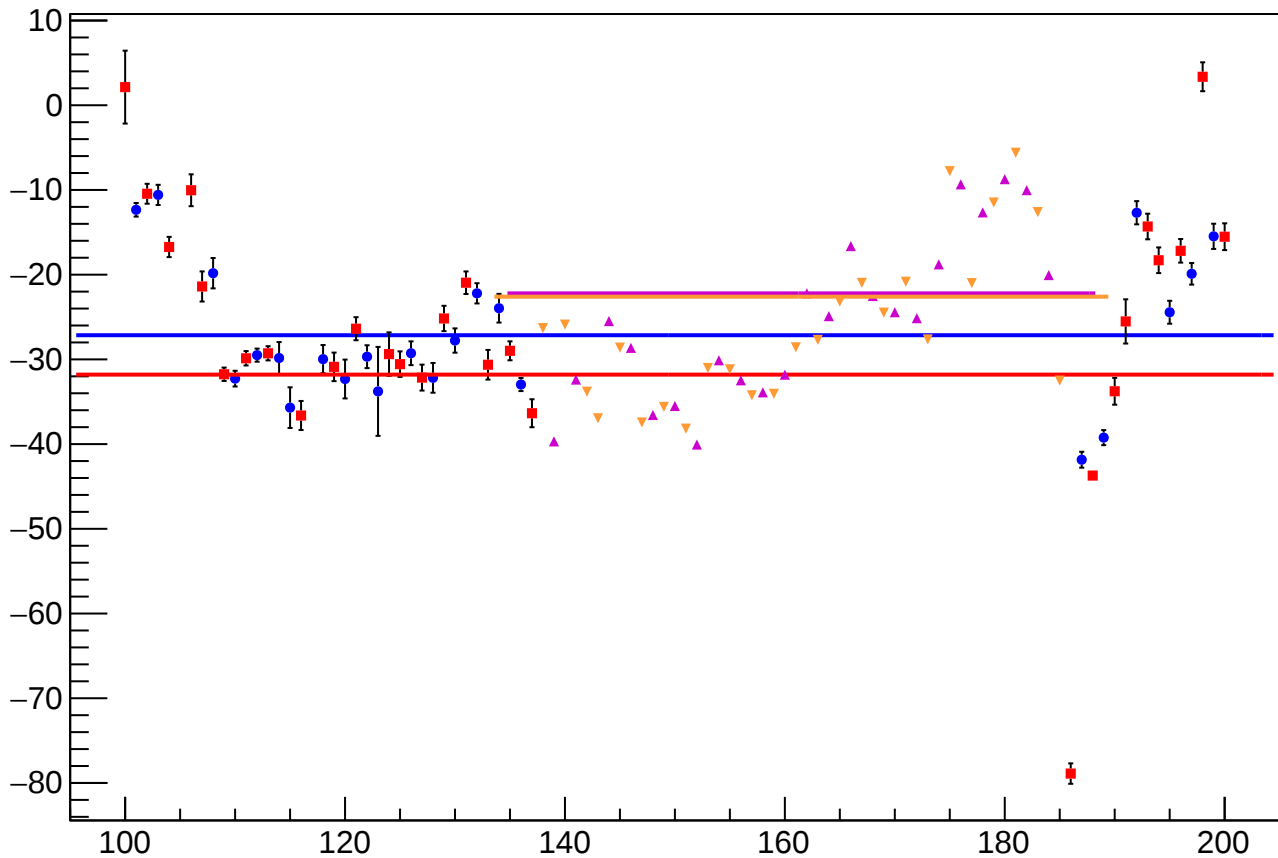
reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.397 ± 0.165 $\chi^2/\text{NDF}: 776.1/22$
 Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$
 Right Out: 1.086 ± 0.165 $\chi^2/\text{NDF}: 1074.0/27$
 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: 1.242 ± 0.117 $\chi^2/\text{NDF}: 1851.9/50$
 In: 3.508 ± 0.054 $\chi^2/\text{NDF}: 6589.0/45$
 Out: 3.486 ± 0.053 $\chi^2/\text{NDF}: 8759.2/52$
 All: 3.497 ± 0.038 $\chi^2/\text{NDF}: 15348.3/98$

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -27.147 ± 0.253 $\chi^2/\text{NDF}: 1345.0/22$

Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$

Right Out: -31.798 ± 0.224 $\chi^2/\text{NDF}: 4004.4/27$

Left In: -22.209 ± 0.072 $\chi^2/\text{NDF}: 17627.4/22$

Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

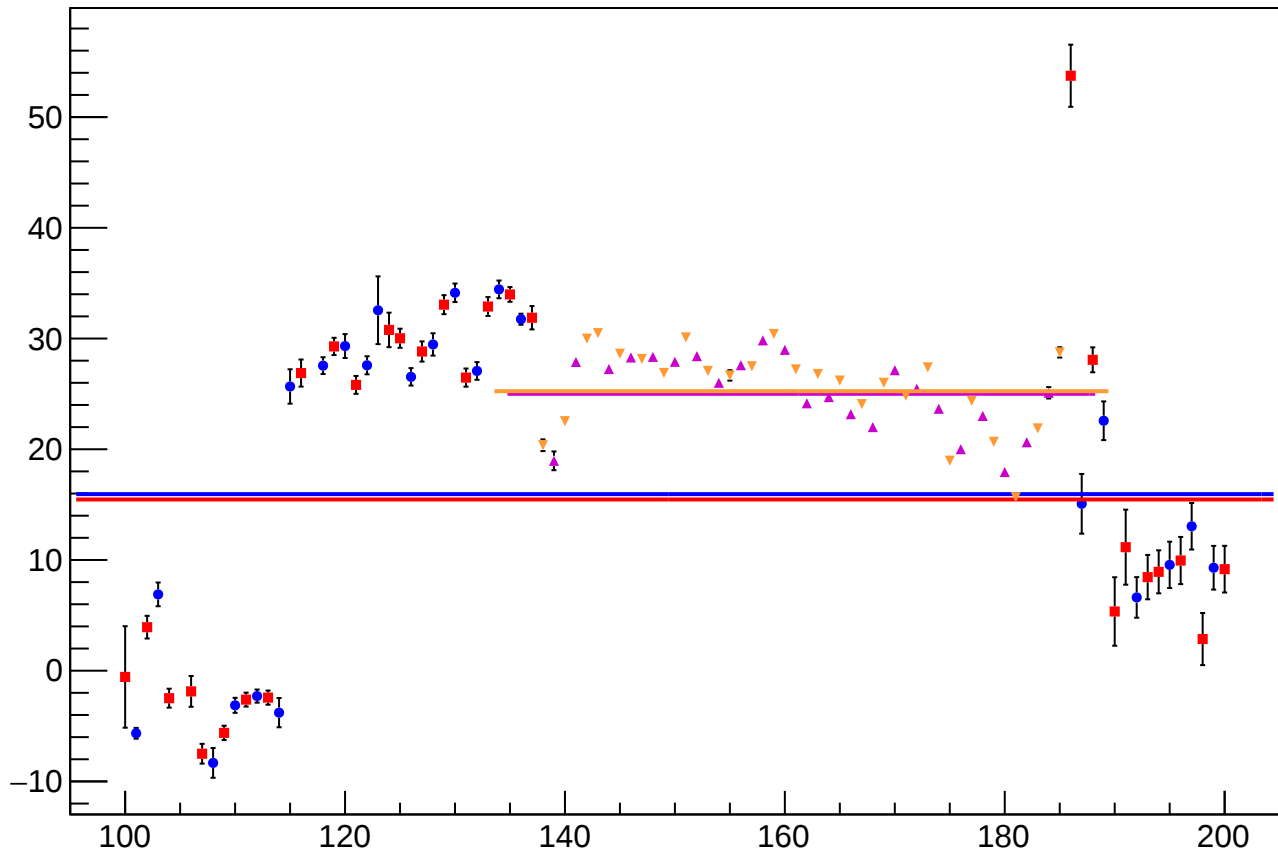
Right: -29.758 ± 0.168 $\chi^2/\text{NDF}: 5538.7/50$

In: -22.574 ± 0.069 $\chi^2/\text{NDF}: 19324.2/45$

Out: -23.432 ± 0.067 $\chi^2/\text{NDF}: 25473.0/52$

All: -23.012 ± 0.048 $\chi^2/\text{NDF}: 44876.3/98$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.946 $\pm$ 0.187 χ^2 /NDF: 7605.8/22

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.463 $\pm$ 0.189 χ^2 /NDF: 7654.3/27

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

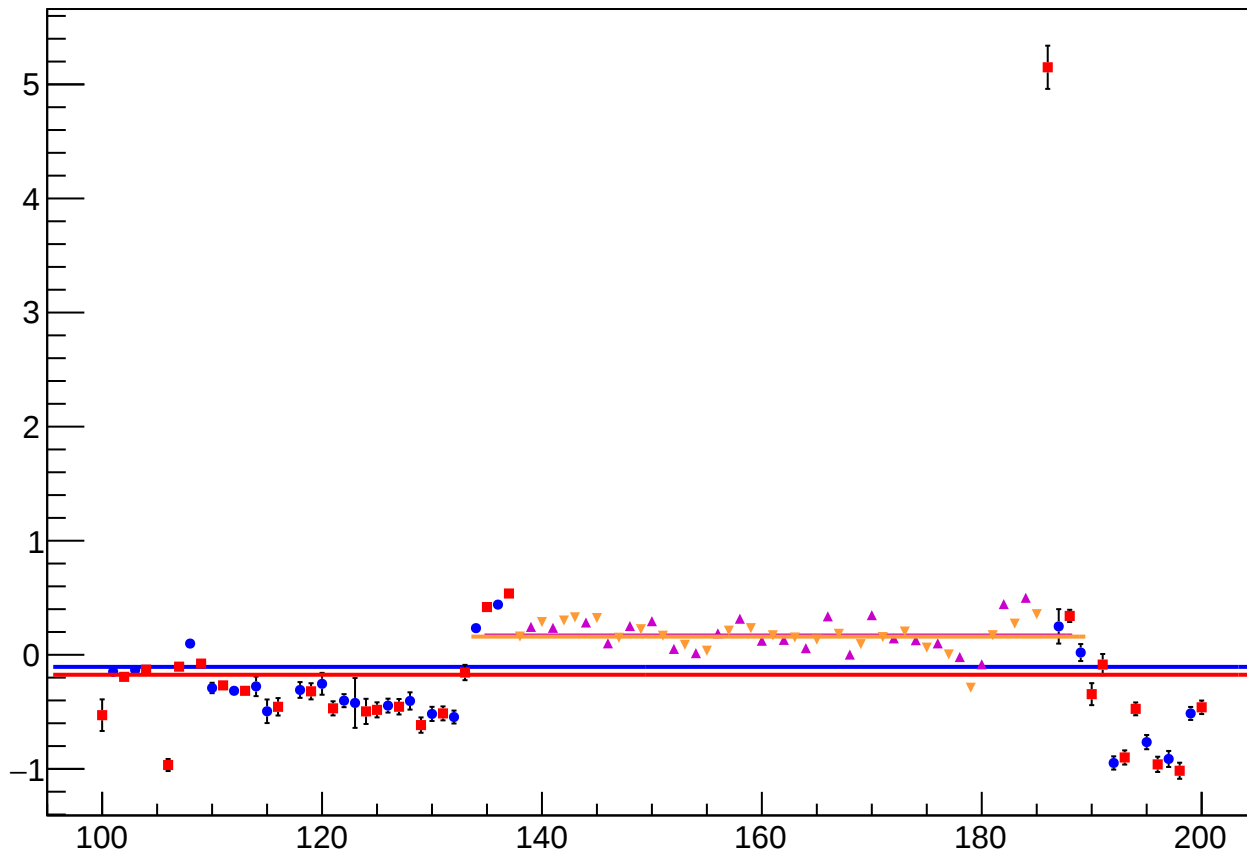
Right: 15.707 $\pm$ 0.133 χ^2 /NDF: 15263.4/50

In: 24.066 $\pm$ 0.060 χ^2 /NDF:12424.0/45

Out: 24.277 $\pm$ 0.059 χ^2 /NDF:13847.1/52

All: 24.173 $\pm$ 0.042 χ^2 /NDF: 26277.3/98

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.106 ± 0.010 χ^2/NDF : 1573.0/22

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.175 ± 0.009 χ^2/NDF : 2530.9/27

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

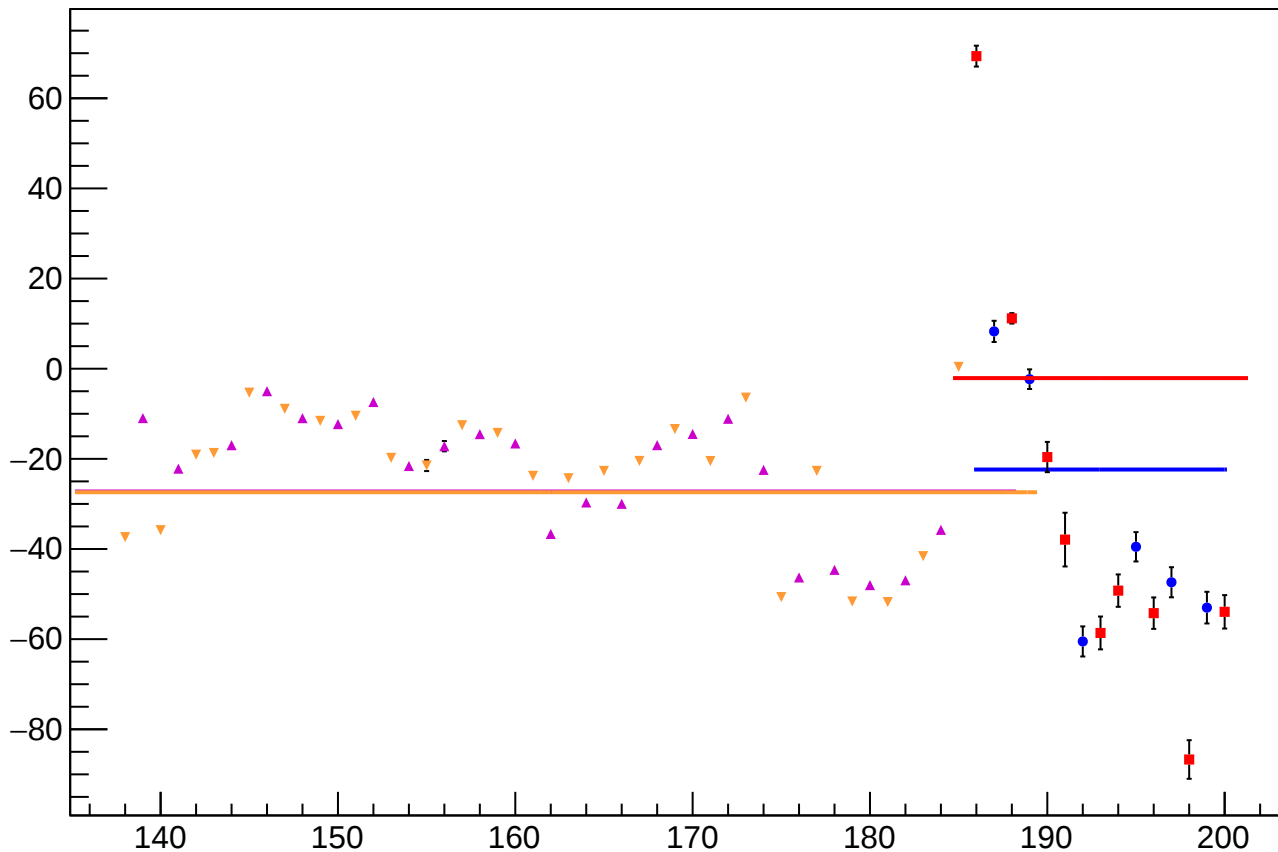
Right: -0.141 ± 0.007 χ^2/NDF : 4129.9/50

In: 0.146 ± 0.003 χ^2/NDF : 4728.4/45

Out: 0.131 ± 0.003 χ^2/NDF : 5536.7/52

All: 0.139 ± 0.002 χ^2/NDF : 10279.5/98

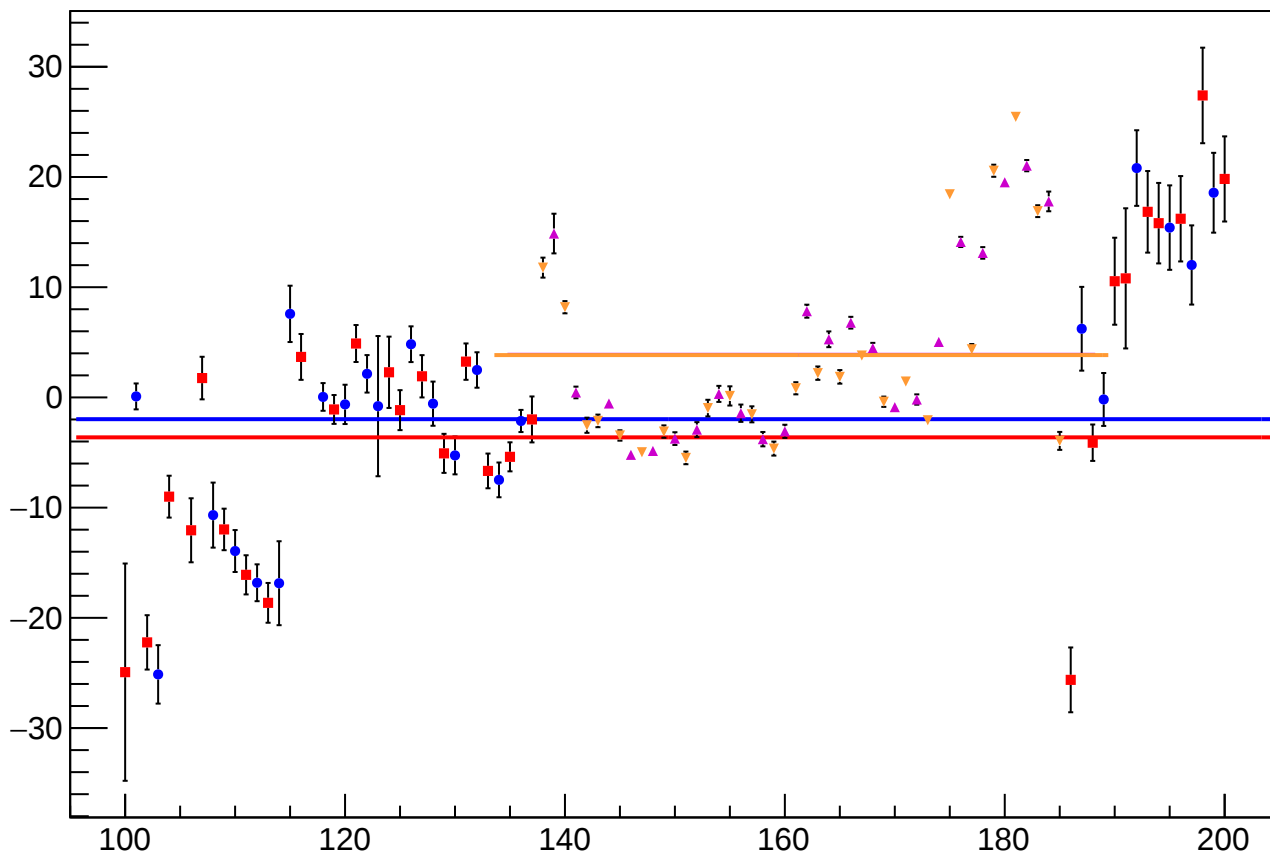
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -22.369 ± 1.157 $\chi^2/\text{NDF}: 545.4/5$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -2.086 ± 0.843 $\chi^2/\text{NDF}: 2366.2/8$
 Left In: -27.243 ± 0.139 $\chi^2/\text{NDF}: 11305.2/22$

Left: -27.327 ± 0.098 $\chi^2/\text{NDF}: 26156.4/47$
 Right: -9.118 ± 0.681 $\chi^2/\text{NDF}: 3112.3/14$
 In: -27.173 ± 0.138 $\chi^2/\text{NDF}: 11868.1/28$
 Out: -26.758 ± 0.135 $\chi^2/\text{NDF}: 18095.7/33$
 All: -26.961 ± 0.097 $\chi^2/\text{NDF}: 29968.4/62$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.974 ± 0.394 χ^2/NDF : 403.6/22

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -3.623 ± 0.396 χ^2/NDF : 550.7/27

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

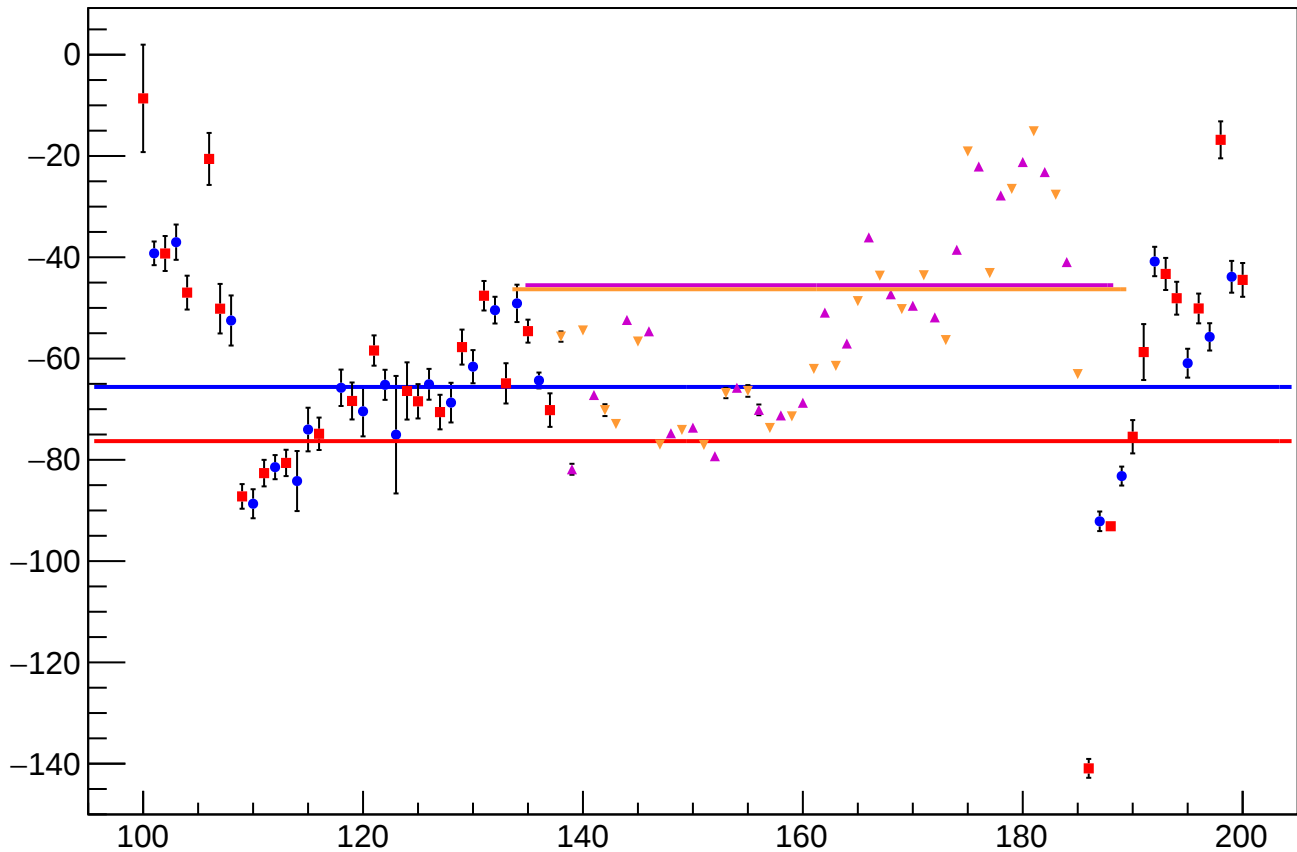
Right: -2.795 ± 0.279 χ^2/NDF : 963.1/50

In: 3.435 ± 0.107 χ^2/NDF : 6031.4/45

Out: 3.313 ± 0.105 χ^2/NDF : 7820.7/52

All: 3.373 ± 0.075 χ^2/NDF : 13852.8/98

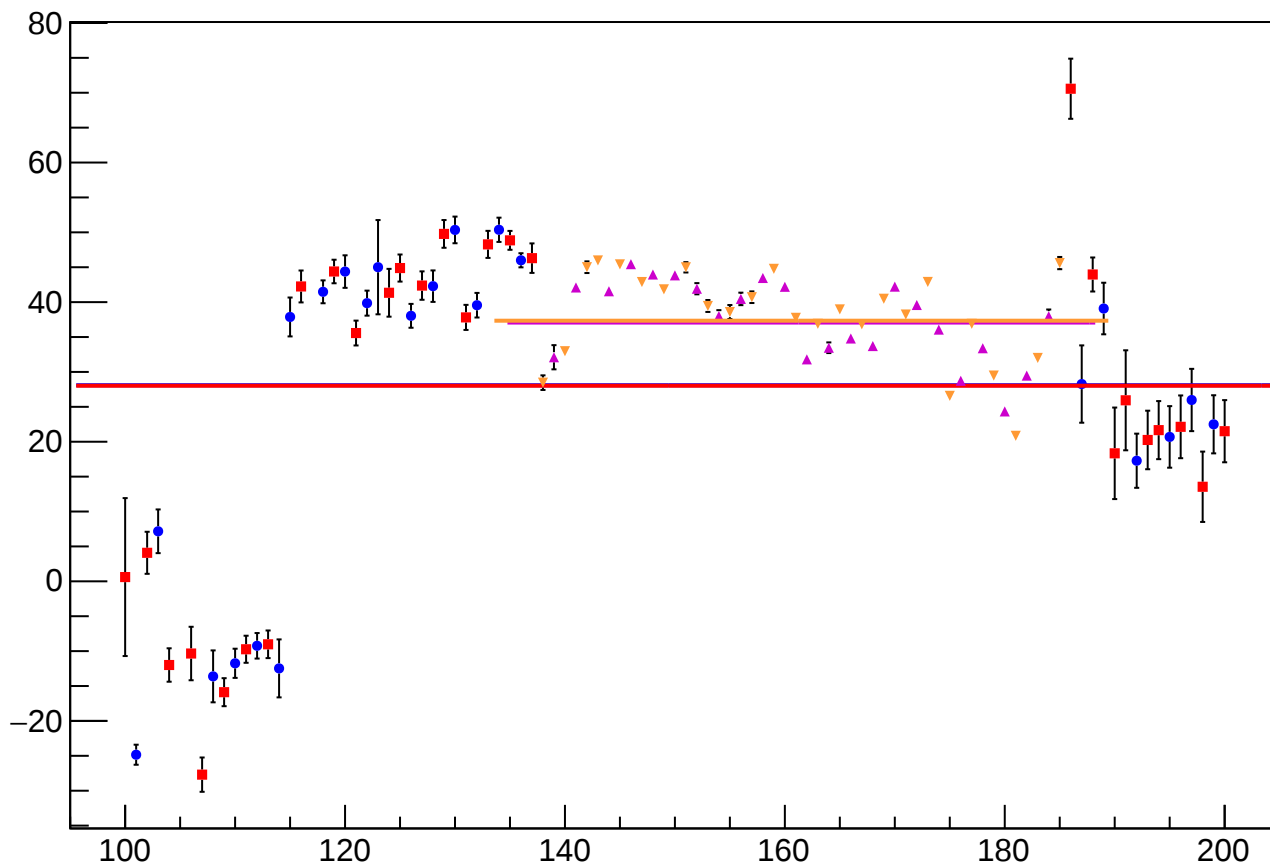
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.609 ± 0.592 χ^2/NDF : 795.9/22
 Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24
 Right Out: -76.307 ± 0.514 χ^2/NDF : 2844.9/27
 Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47
 Right: -71.715 ± 0.388 χ^2/NDF : 3827.1/50
 In: -46.582 ± 0.136 χ^2/NDF : 19411.2/45
 Out: -48.336 ± 0.133 χ^2/NDF : 26160.1/52
 All: -47.477 ± 0.095 χ^2/NDF : 45656.1/98

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.095 ± 0.445 χ^2/NDF : 3332.5/22

Left Out: 37.340 ± 0.123 χ^2/NDF : 3149.1/24

Right Out: 28.023 ± 0.453 χ^2/NDF : 3193.6/27

Left In: 37.074 ± 0.125 χ^2/NDF : 2397.3/22

Left: 37.209 ± 0.088 χ^2/NDF : 5548.7/47

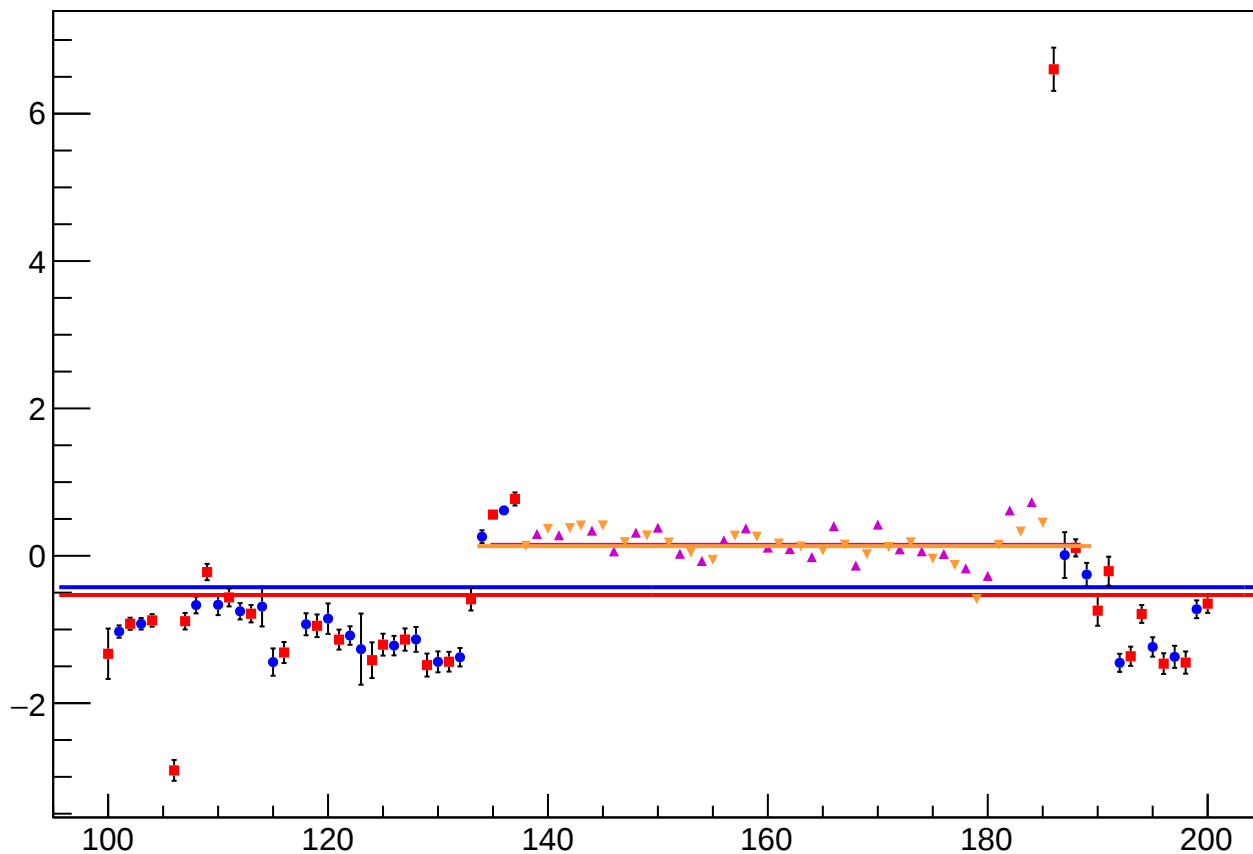
Right: 28.059 ± 0.318 χ^2/NDF : 6526.1/50

In: 36.417 ± 0.120 χ^2/NDF : 6106.4/45

Out: 36.702 ± 0.119 χ^2/NDF : 6736.2/52

All: 36.562 ± 0.085 χ^2/NDF : 12845.4/98

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.426 ± 0.023 χ^2/NDF : 1184.3/22

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.532 ± 0.023 χ^2/NDF : 1912.1/27

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

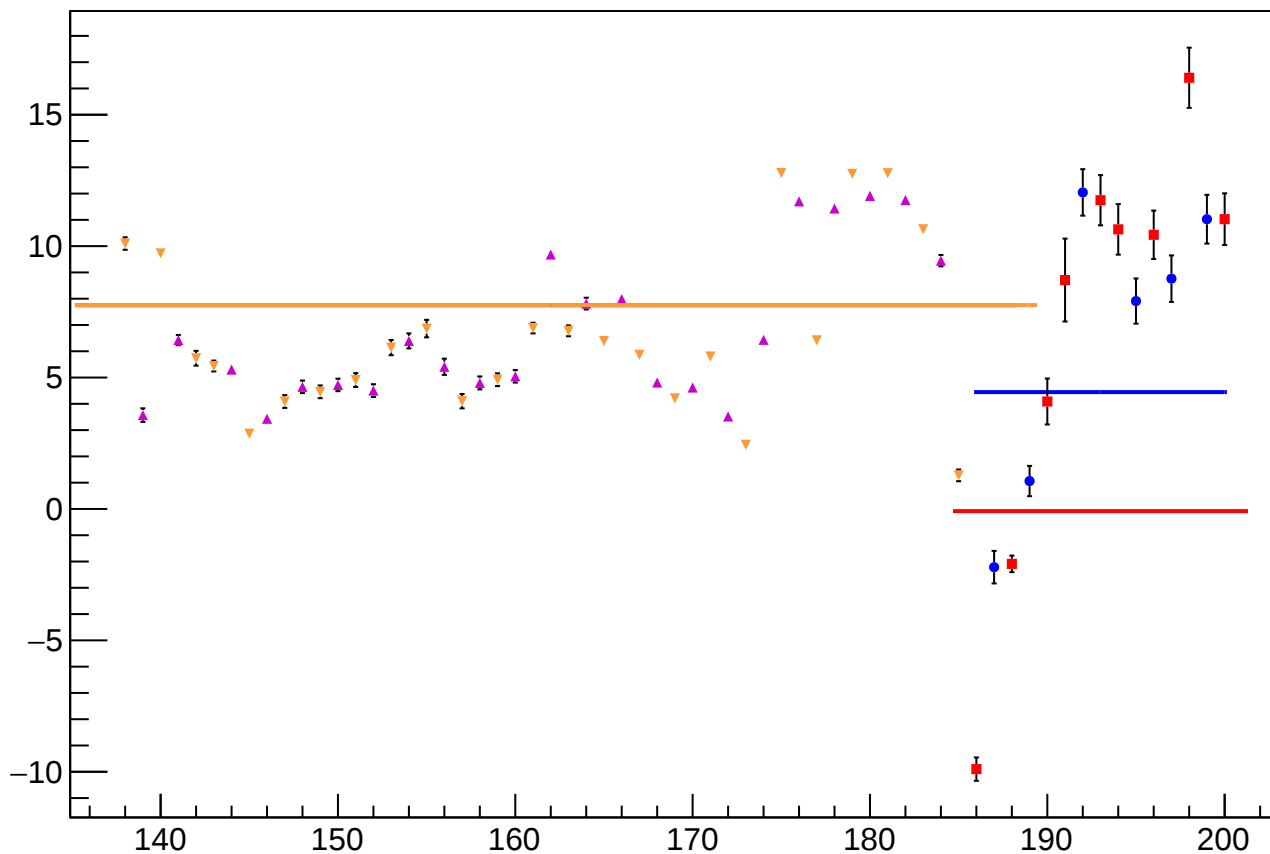
Right: -0.480 ± 0.016 χ^2/NDF : 3107.2/50

In: 0.115 ± 0.006 χ^2/NDF : 3576.3/45

Out: 0.093 ± 0.005 χ^2/NDF : 4136.7/52

All: 0.104 ± 0.004 χ^2/NDF : 7720.9/98

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.446+/-0.306 χ^2/NDF : 314.4/5

Left Out: 7.757+/-0.034 χ^2/NDF :11728.6/24

Right Out: -0.082+/-0.213 χ^2/NDF : 1325.9/8

Left In: 7.753+/-0.035 χ^2/NDF :8345.2/22

Left: 7.755+/-0.025 χ^2/NDF : 20073.8/47

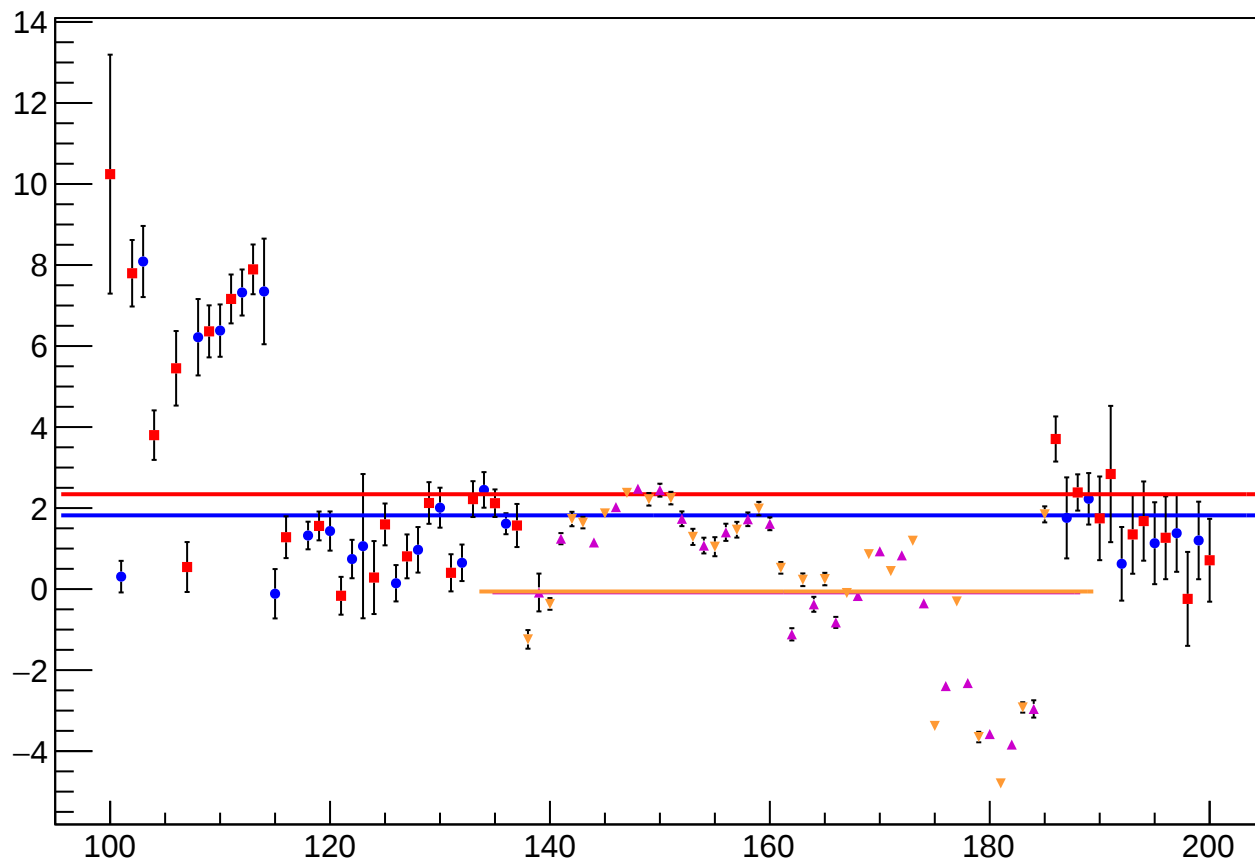
Right: 1.397+/-0.175 χ^2/NDF : 1787.8/14

In: 7.710+/-0.035 χ^2/NDF :8774.9/28

Out: 7.559+/-0.034 χ^2/NDF :14374.4/33

All: 7.632+/-0.024 χ^2/NDF : 23159.0/62

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.820 ± 0.111 $\chi^2/\text{NDF}: 296.6/22$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.342 ± 0.111 $\chi^2/\text{NDF}: 352.1/27$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

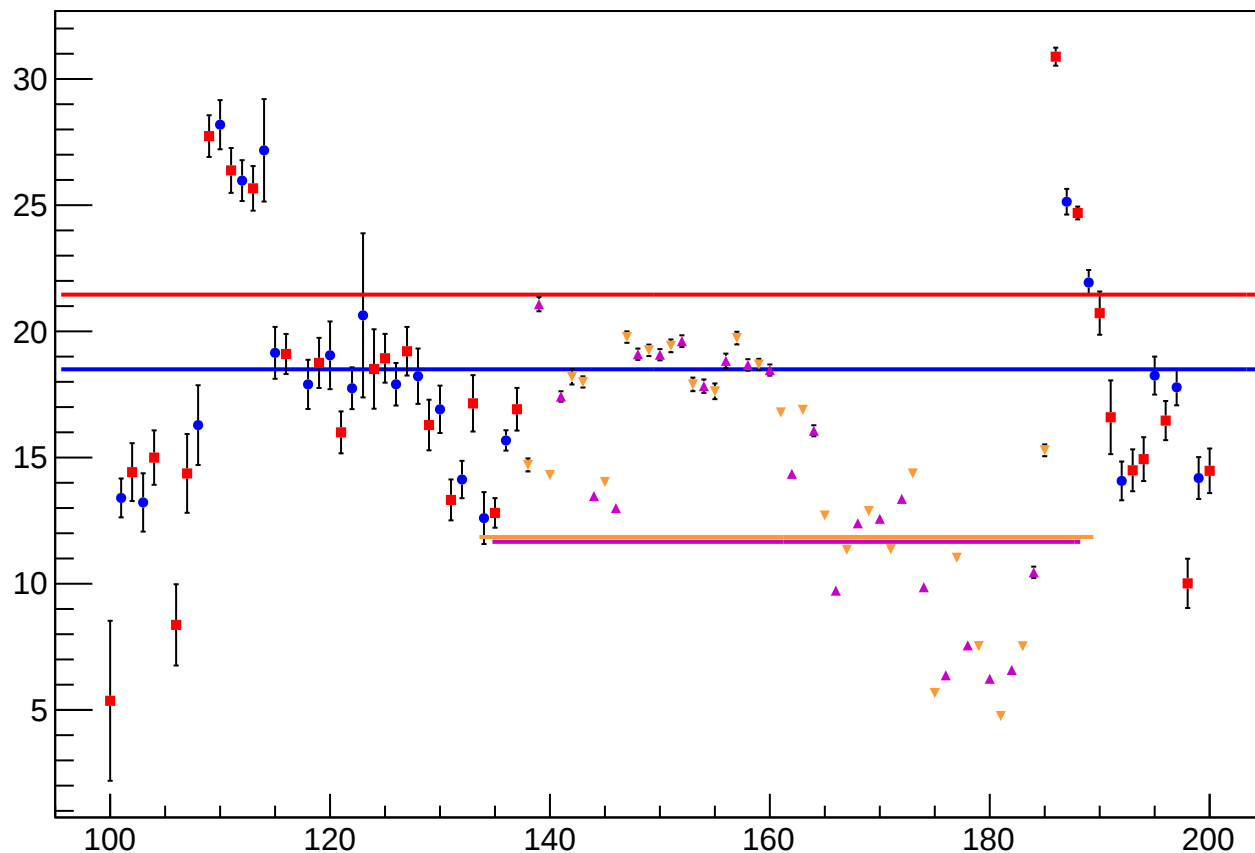
Right: 2.081 ± 0.079 $\chi^2/\text{NDF}: 659.7/50$

In: 0.034 ± 0.027 $\chi^2/\text{NDF}: 5549.3/45$

Out: 0.081 ± 0.027 $\chi^2/\text{NDF}: 6858.6/52$

All: 0.058 ± 0.019 $\chi^2/\text{NDF}: 12409.4/98$

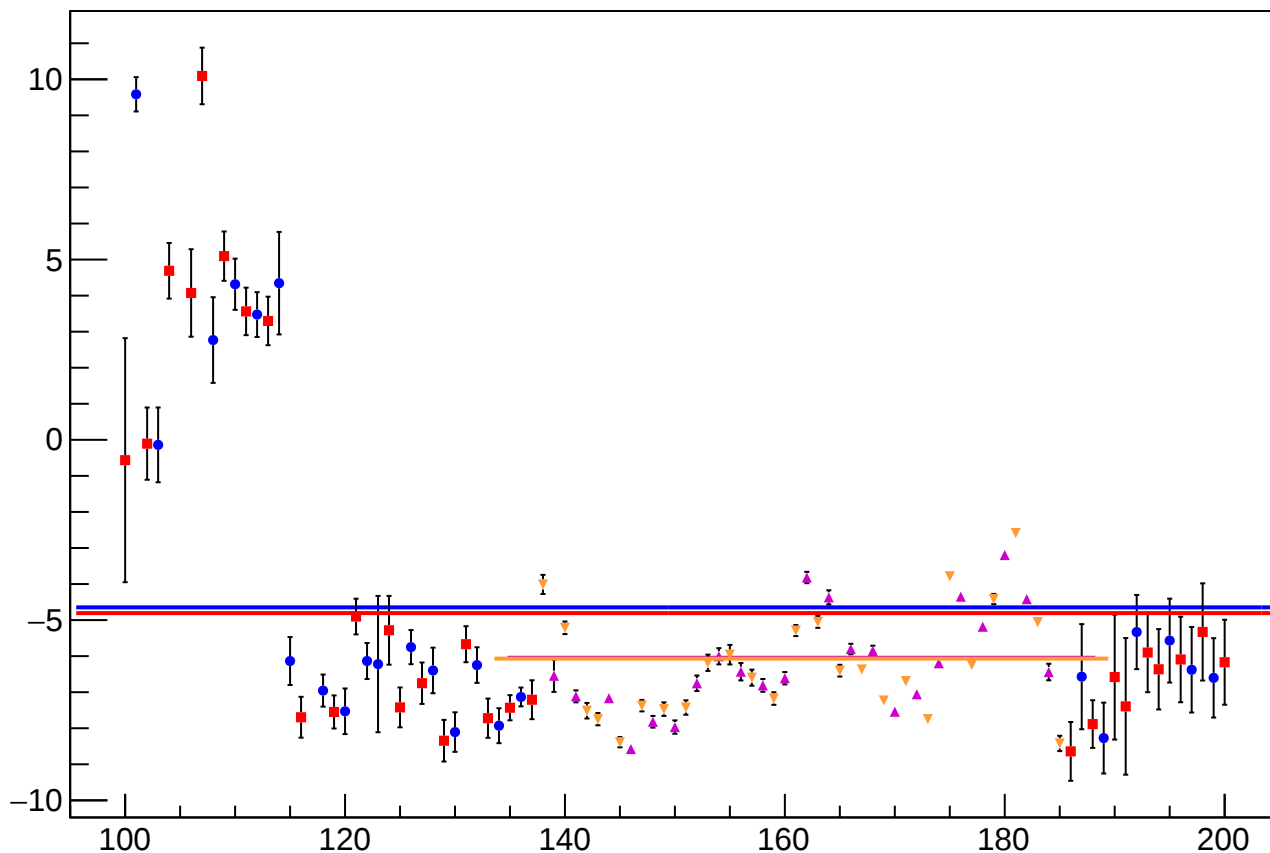
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.497 ± 0.165 χ^2/NDF : 671.0/22
 Left Out: 11.853 ± 0.035 χ^2/NDF : 19149.4/24
 Right Out: 21.456 ± 0.138 χ^2/NDF : 2000.6/27
 Left In: 11.660 ± 0.035 χ^2/NDF : 16710.2/22

Left: 11.758 ± 0.025 χ^2/NDF : 35874.9/47
 Right: 20.238 ± 0.106 χ^2/NDF : 2861.7/50
 In: 11.958 ± 0.034 χ^2/NDF : 19028.9/45
 Out: 12.426 ± 0.034 χ^2/NDF : 25722.8/52
 All: 12.197 ± 0.024 χ^2/NDF : 44845.9/98

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.647 ± 0.126 χ^2/NDF : 1605.9/22

Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24

Right Out: -4.806 ± 0.128 χ^2/NDF : 1399.2/27

Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47

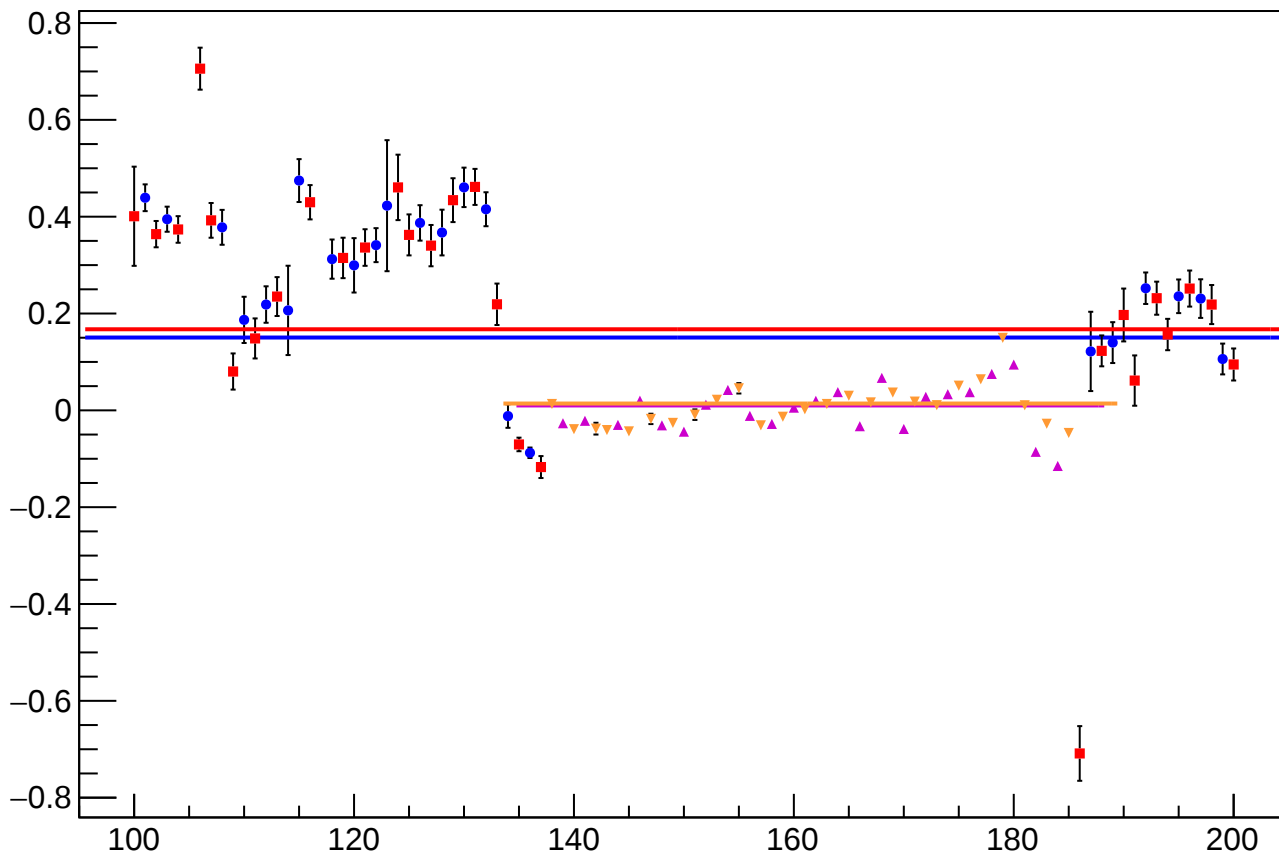
Right: -4.725 ± 0.090 χ^2/NDF : 3005.9/50

In: -5.961 ± 0.031 χ^2/NDF : 4016.0/45

Out: -5.998 ± 0.030 χ^2/NDF : 4162.9/52

All: -5.980 ± 0.022 χ^2/NDF : 8179.6/98

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.150 $\pm$ 0.006 χ^2 /NDF: 1081.1/22

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.167 $\pm$ 0.006 χ^2 /NDF: 1265.6/27

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

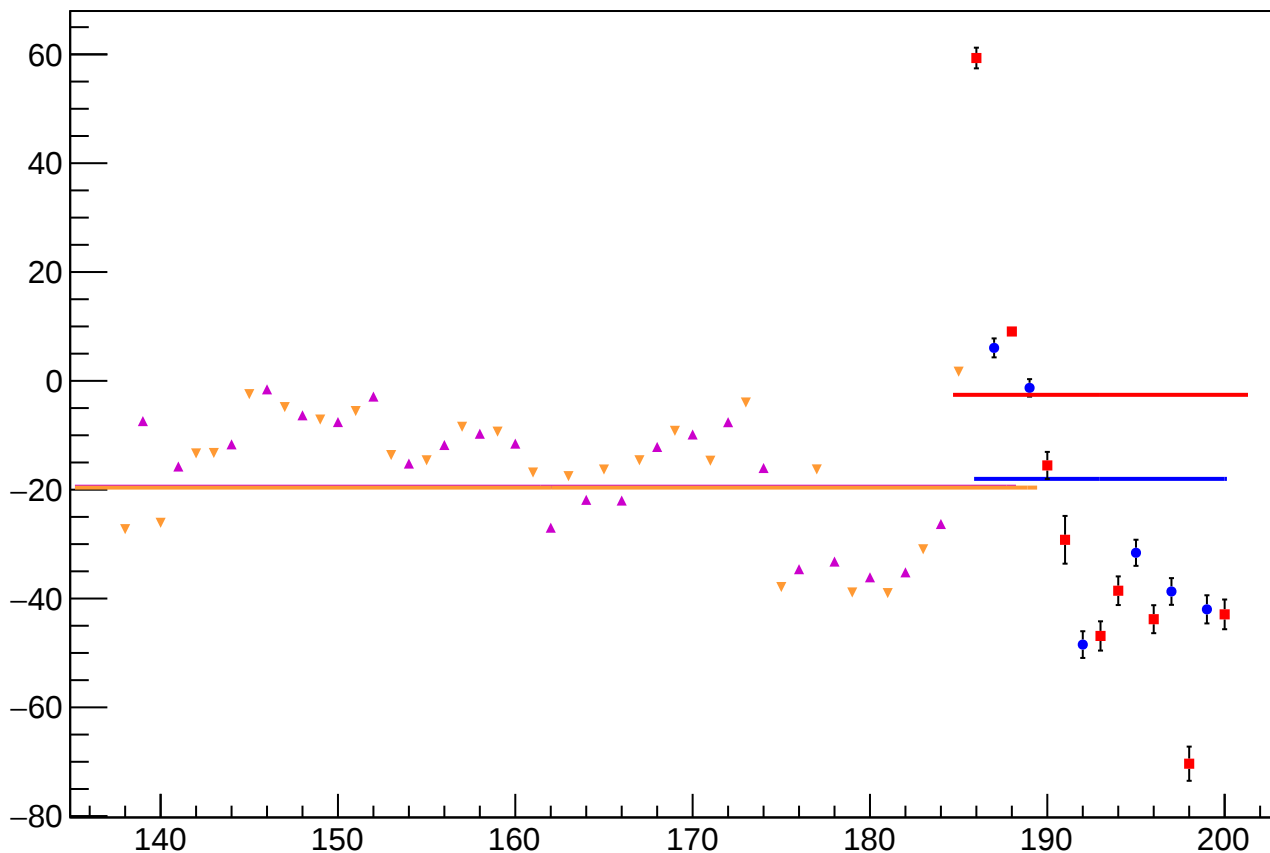
Right: 0.159 $\pm$ 0.005 χ^2 /NDF: 2350.2/50

In: 0.017 $\pm$ 0.001 χ^2 /NDF: 2748.4/45

Out: 0.021 $\pm$ 0.001 χ^2 /NDF: 2765.7/52

All: 0.019 $\pm$ 0.001 χ^2 /NDF: 5518.9/98

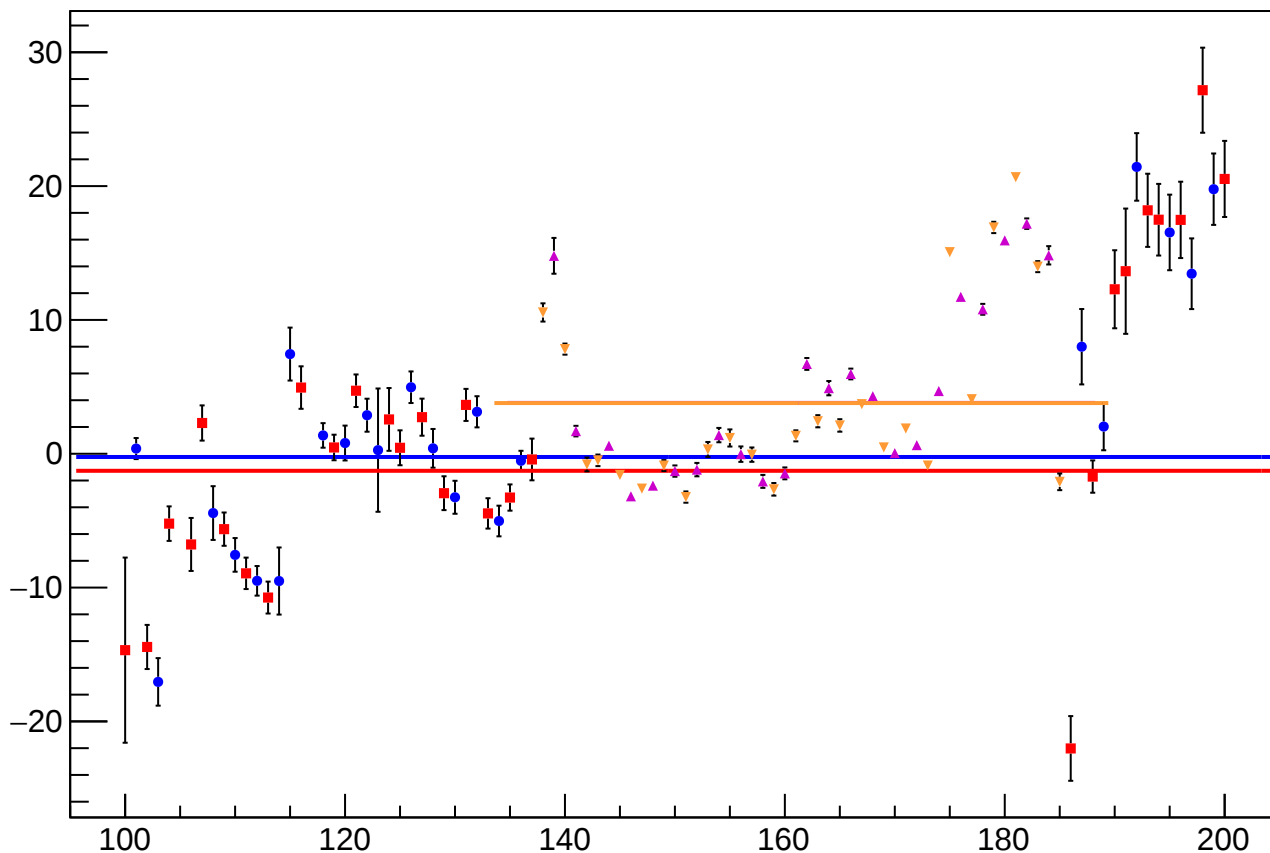
reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.011 $\pm$ 0.853 χ^2 /NDF: 642.5/5
 Left Out: -19.612 $\pm$ 0.103 χ^2 /NDF:15761.3/24
 Right Out: -2.567 $\pm$ 0.626 χ^2 /NDF: 2712.6/8
 Left In: -19.450 $\pm$ 0.105 χ^2 /NDF:12283.1/22

Left: -19.533 $\pm$ 0.074 χ^2 /NDF: 28045.6/47
 Right: -7.971 $\pm$ 0.505 χ^2 /NDF: 3568.0/14
 In: -19.429 $\pm$ 0.104 χ^2 /NDF:12928.4/28
 Out: -19.161 $\pm$ 0.102 χ^2 /NDF:19195.3/33
 All: -19.292 $\pm$ 0.073 χ^2 /NDF: 32127.1/62

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.241 ± 0.281 $\chi^2/\text{NDF}: 491.4/22$

Left Out: 3.788 ± 0.082 $\chi^2/\text{NDF}: 7150.5/24$

Right Out: -1.273 ± 0.282 $\chi^2/\text{NDF}: 684.0/27$

Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$

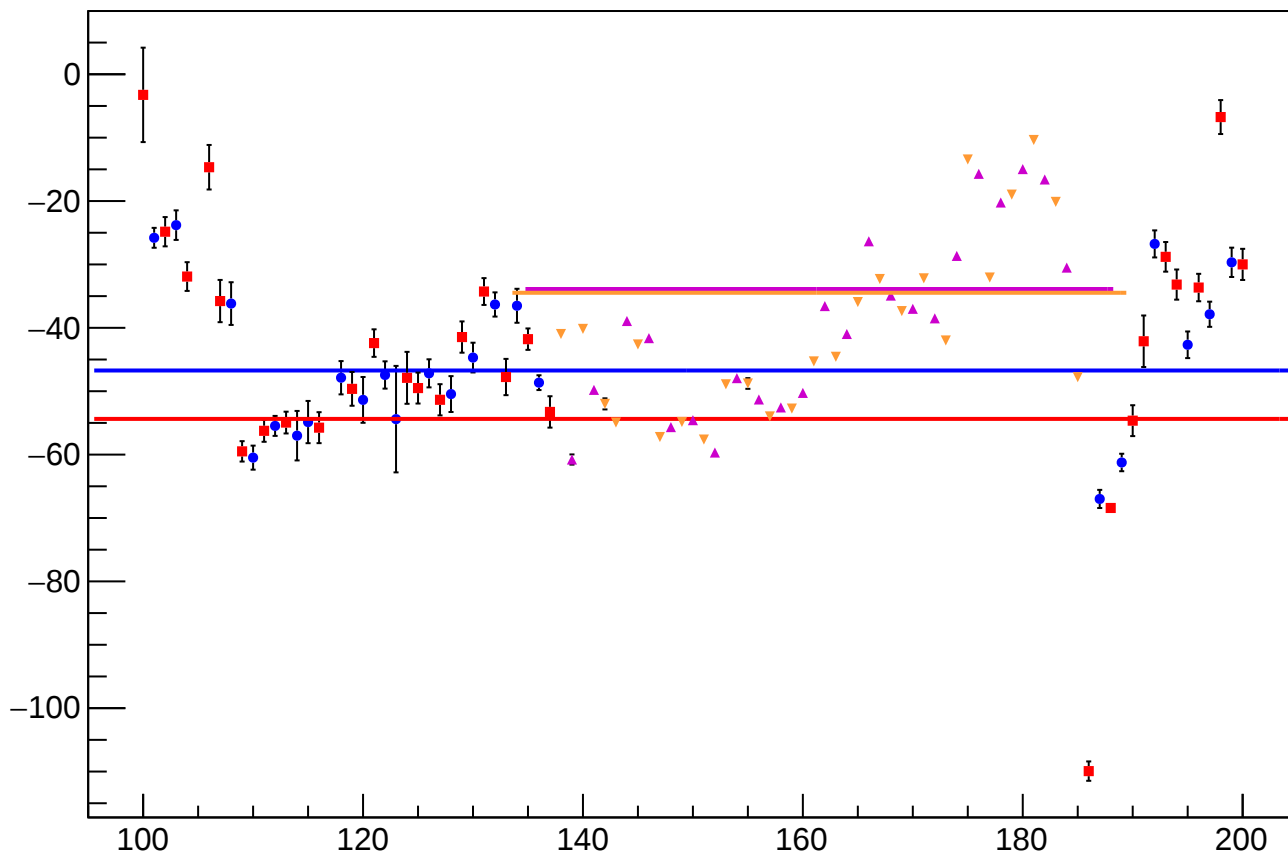
Right: -0.755 ± 0.199 $\chi^2/\text{NDF}: 1182.1/50$

In: 3.470 ± 0.080 $\chi^2/\text{NDF}: 6198.4/45$

Out: 3.394 ± 0.079 $\chi^2/\text{NDF}: 8131.0/52$

All: 3.431 ± 0.056 $\chi^2/\text{NDF}: 14329.8/98$

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.731 ± 0.425 χ^2/NDF : 909.9/22

Left Out: -34.471 ± 0.104 χ^2/NDF : 20196.3/24

Right Out: -54.368 ± 0.372 χ^2/NDF : 3158.2/27

Left In: -33.875 ± 0.105 χ^2/NDF : 17638.7/22

Left: -34.177 ± 0.074 χ^2/NDF : 37851.2/47

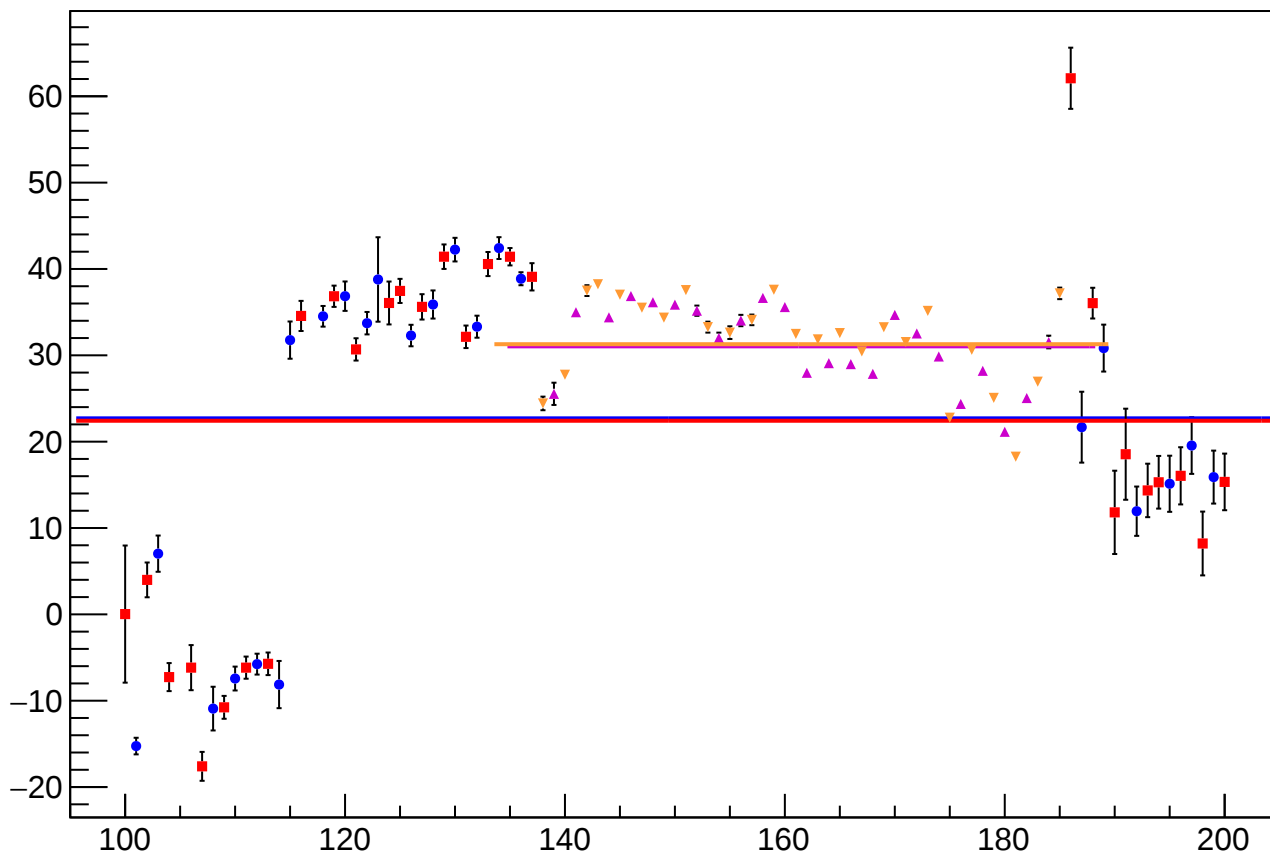
Right: -51.061 ± 0.280 χ^2/NDF : 4250.9/50

In: -34.617 ± 0.102 χ^2/NDF : 19409.4/45

Out: -35.914 ± 0.100 χ^2/NDF : 26012.1/52

All: -35.279 ± 0.072 χ^2/NDF : 45503.7/98

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.700 $\pm$ 0.318 χ^2 /NDF: 4352.1/22

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.423 $\pm$ 0.323 χ^2 /NDF: 4255.7/27

Left In: 31.039 $\pm$ 0.094 χ^2 /NDF:2480.0/22

Left: 31.165 $\pm$ 0.066 χ^2 /NDF: 5829.2/47

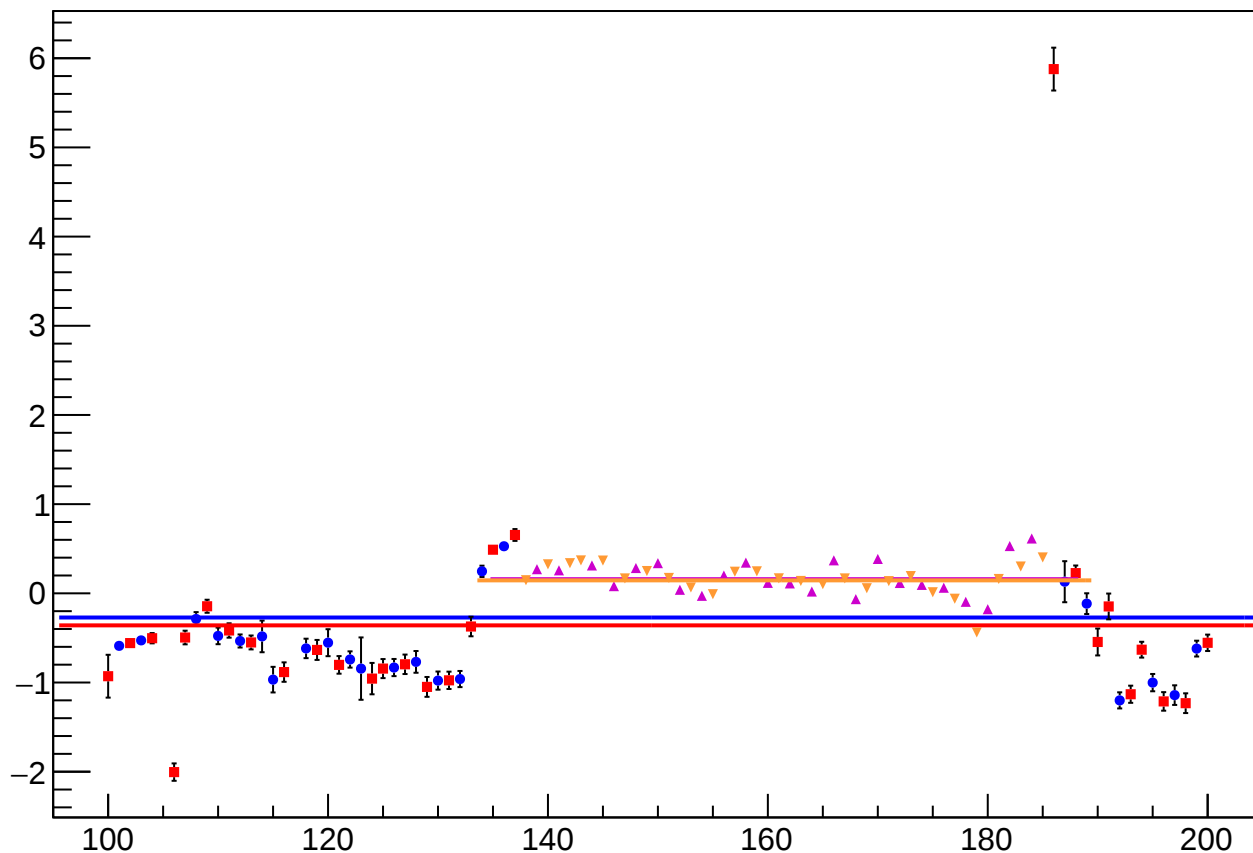
Right: 22.564 $\pm$ 0.227 χ^2 /NDF: 8608.1/50

In: 30.368 $\pm$ 0.090 χ^2 /NDF:7463.3/45

Out: 30.617 $\pm$ 0.089 χ^2 /NDF:8296.1/52

All: 30.494 $\pm$ 0.063 χ^2 /NDF: 15763.3/98

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.271 ± 0.016 χ^2/NDF : 1266.9/22

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.359 ± 0.016 χ^2/NDF : 2110.2/27

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

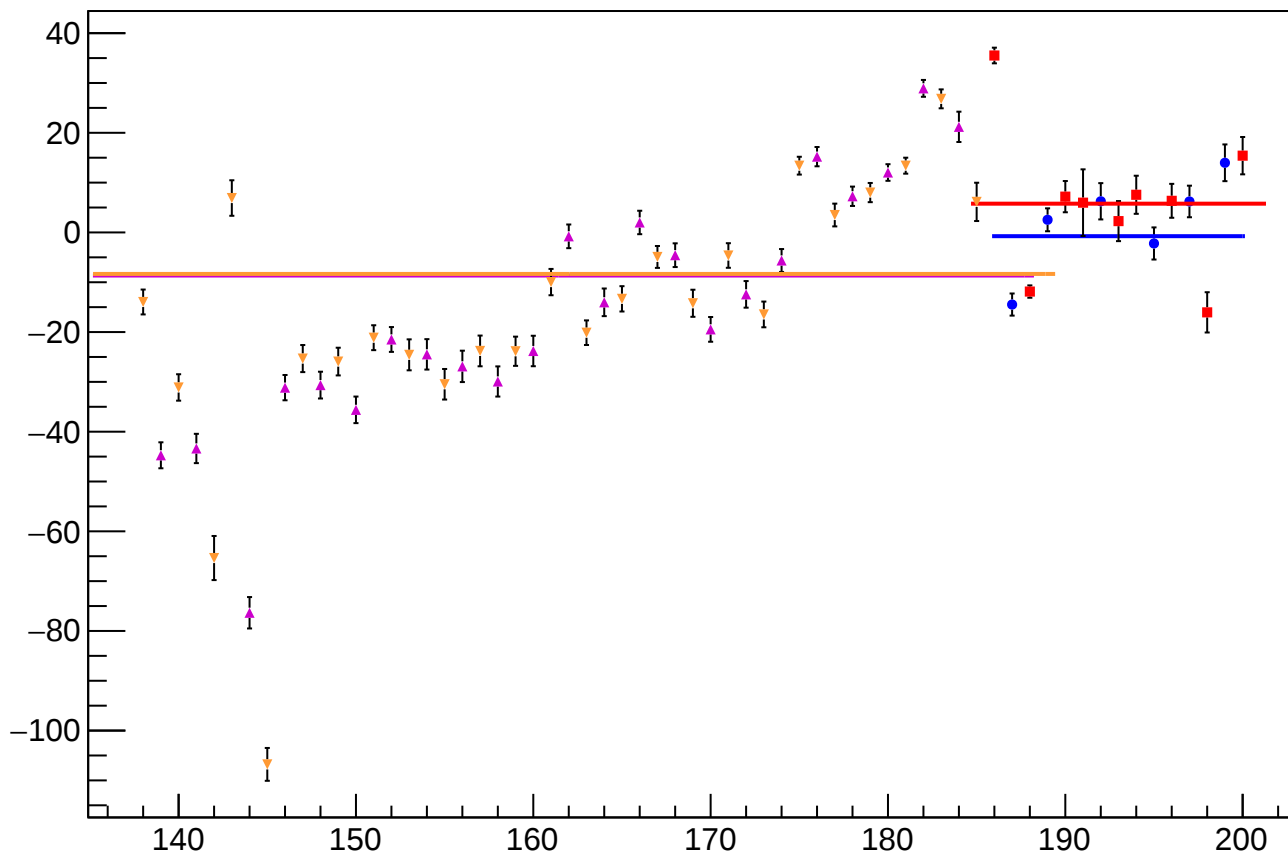
Right: -0.316 ± 0.012 χ^2/NDF : 3391.6/50

In: 0.131 ± 0.004 χ^2/NDF : 3915.7/45

Out: 0.113 ± 0.004 χ^2/NDF : 4593.1/52

All: 0.122 ± 0.003 χ^2/NDF : 8518.2/98

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



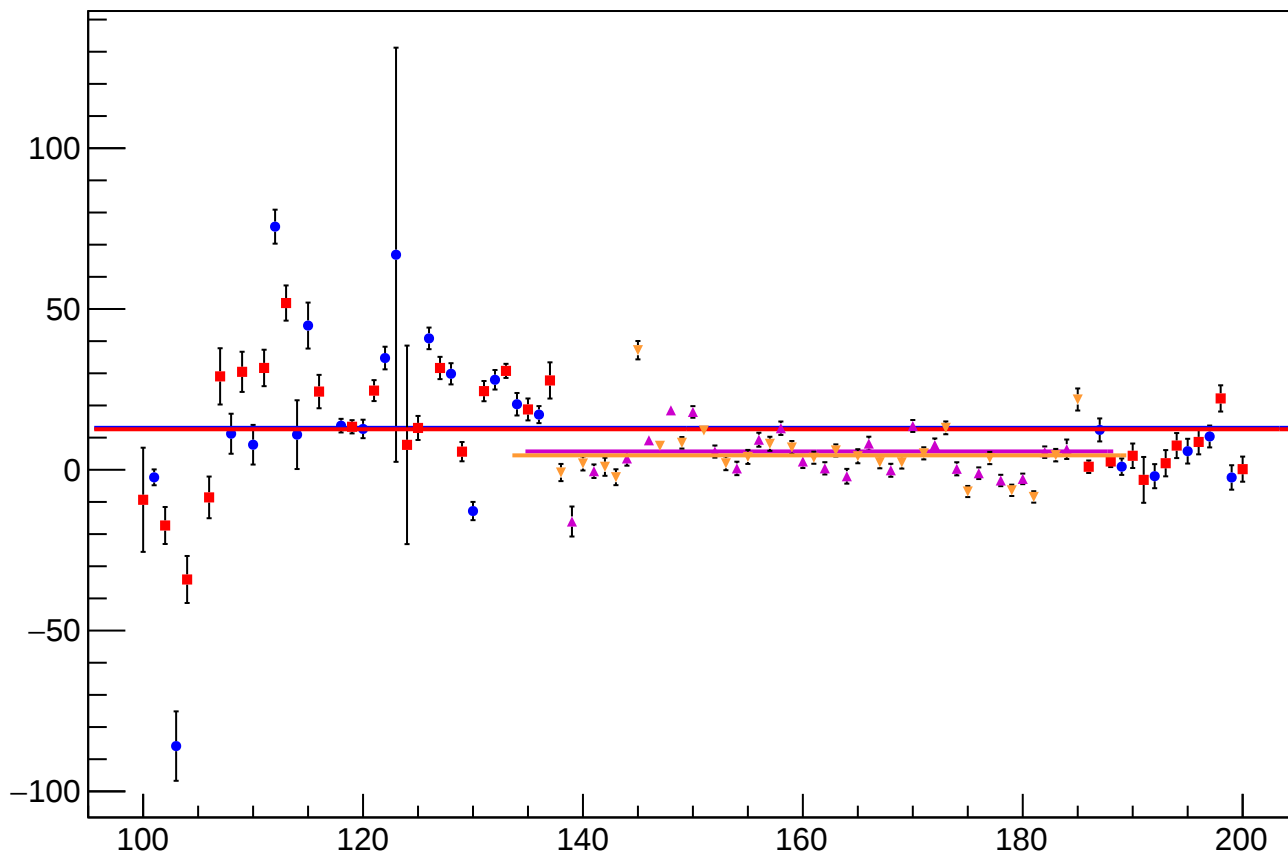
Right In: -0.753 ± 1.165 χ^2/NDF : 65.0/5
 Left Out: -8.332 ± 0.500 χ^2/NDF : 2226.2/24
 Right Out: 5.773 ± 0.809 χ^2/NDF : 598.2/8
 Left In: -8.652 ± 0.507 χ^2/NDF : 2223.8/22

Left: -8.490 ± 0.356 χ^2/NDF : 4450.2/47
 Right: 3.652 ± 0.664 χ^2/NDF : 684.3/14

In: -7.394 ± 0.465 χ^2/NDF : 2327.4/28
 Out: -4.435 ± 0.425 χ^2/NDF : 3044.6/33

All: -5.781 ± 0.314 χ^2/NDF : 5394.1/62

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.044 $\pm$ 0.730 χ^2 /NDF: 590.7/22

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF: 371.9/24

Right Out: 12.598 $\pm$ 0.667 χ^2 /NDF: 407.0/27

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

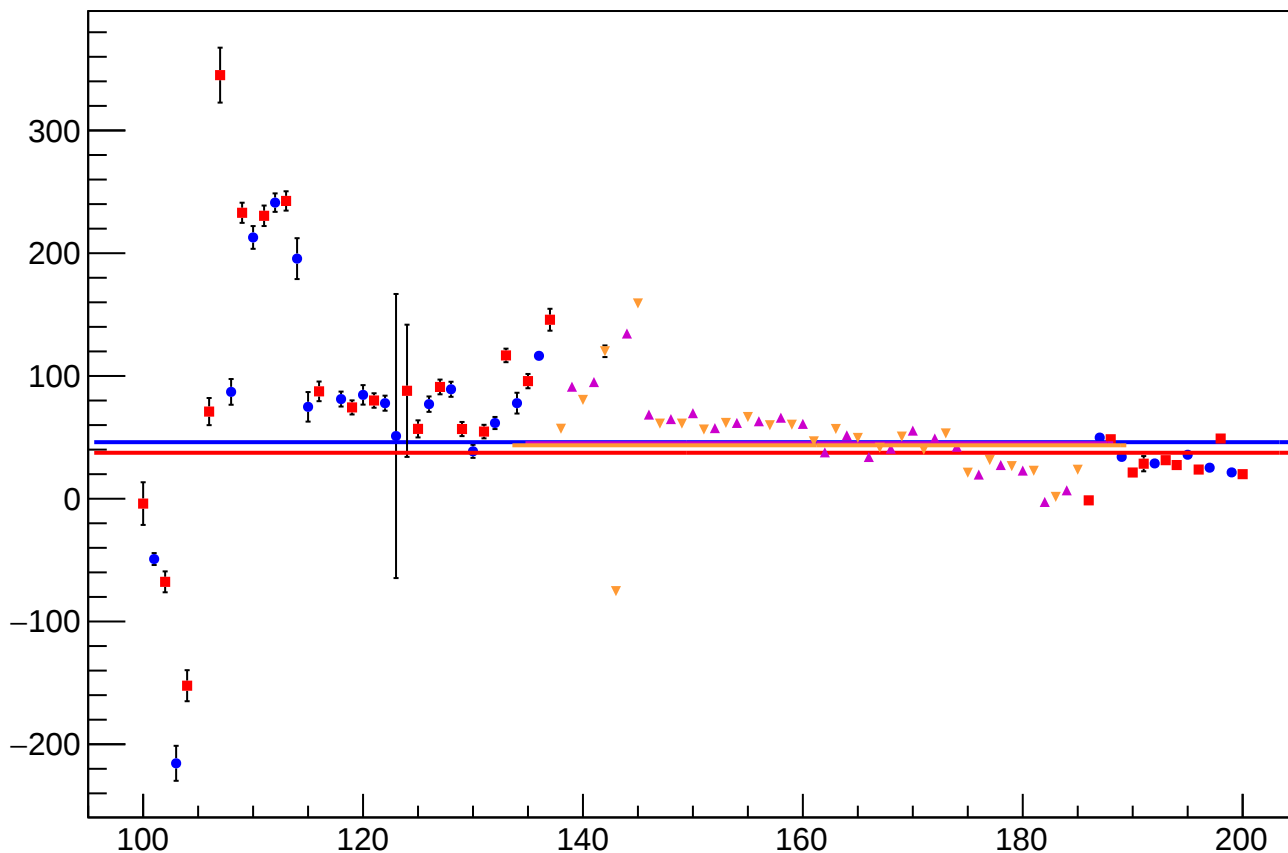
Right: 12.801 $\pm$ 0.492 χ^2 /NDF: 997.8/50

In: 7.428 $\pm$ 0.354 χ^2 /NDF: 992.1/45

Out: 6.568 $\pm$ 0.338 χ^2 /NDF: 888.8/52

All: 6.978 $\pm$ 0.244 χ^2 /NDF: 1884.0/98

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 46.071+/-0.843 χ^2/NDF : 2506.1/22

Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24

Right Out: 37.440+/-0.623 χ^2/NDF : 4233.4/27

Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47

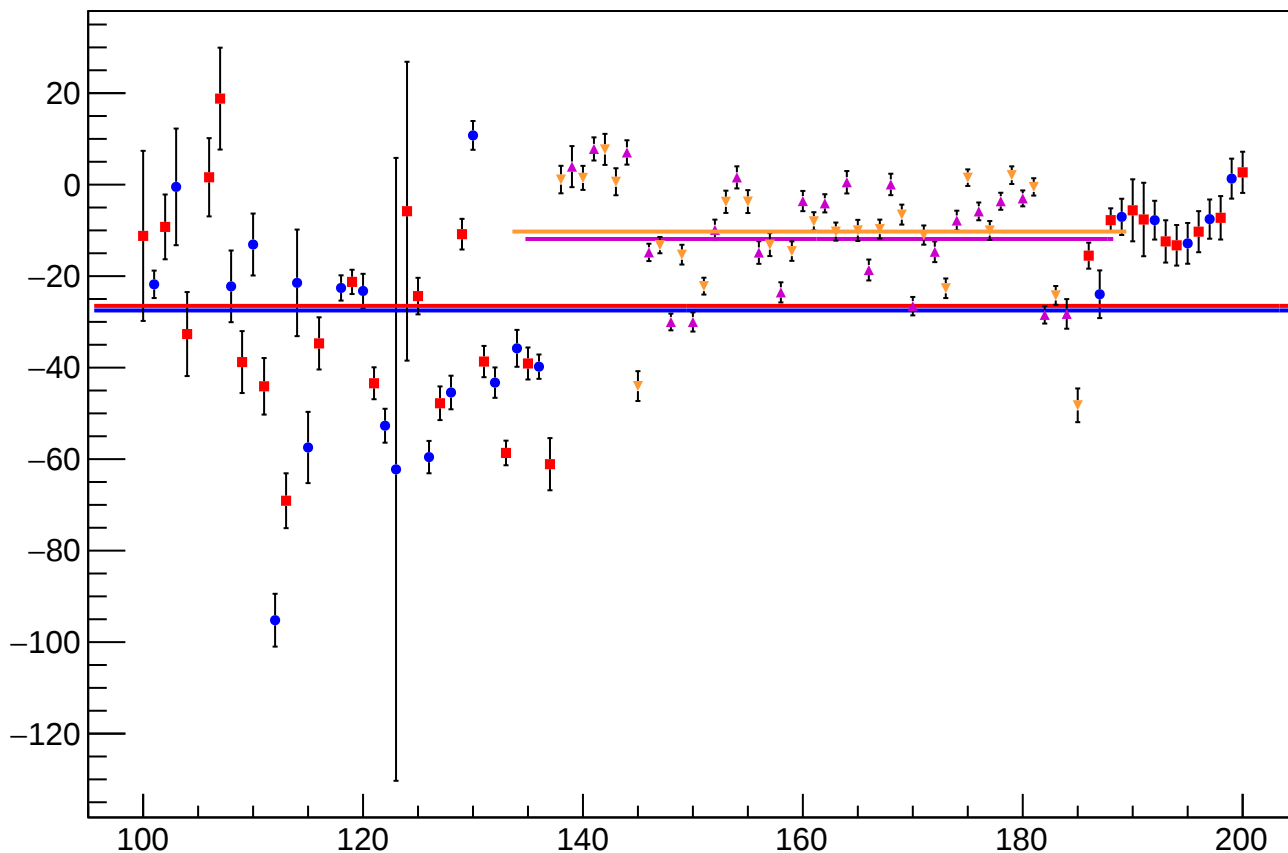
Right: 40.493+/-0.501 χ^2/NDF : 6807.2/50

In: 45.438+/-0.433 χ^2/NDF : 5555.4/45

Out: 41.152+/-0.389 χ^2/NDF : 8122.1/52

All: 43.069+/-0.289 χ^2/NDF : 13731.7/98

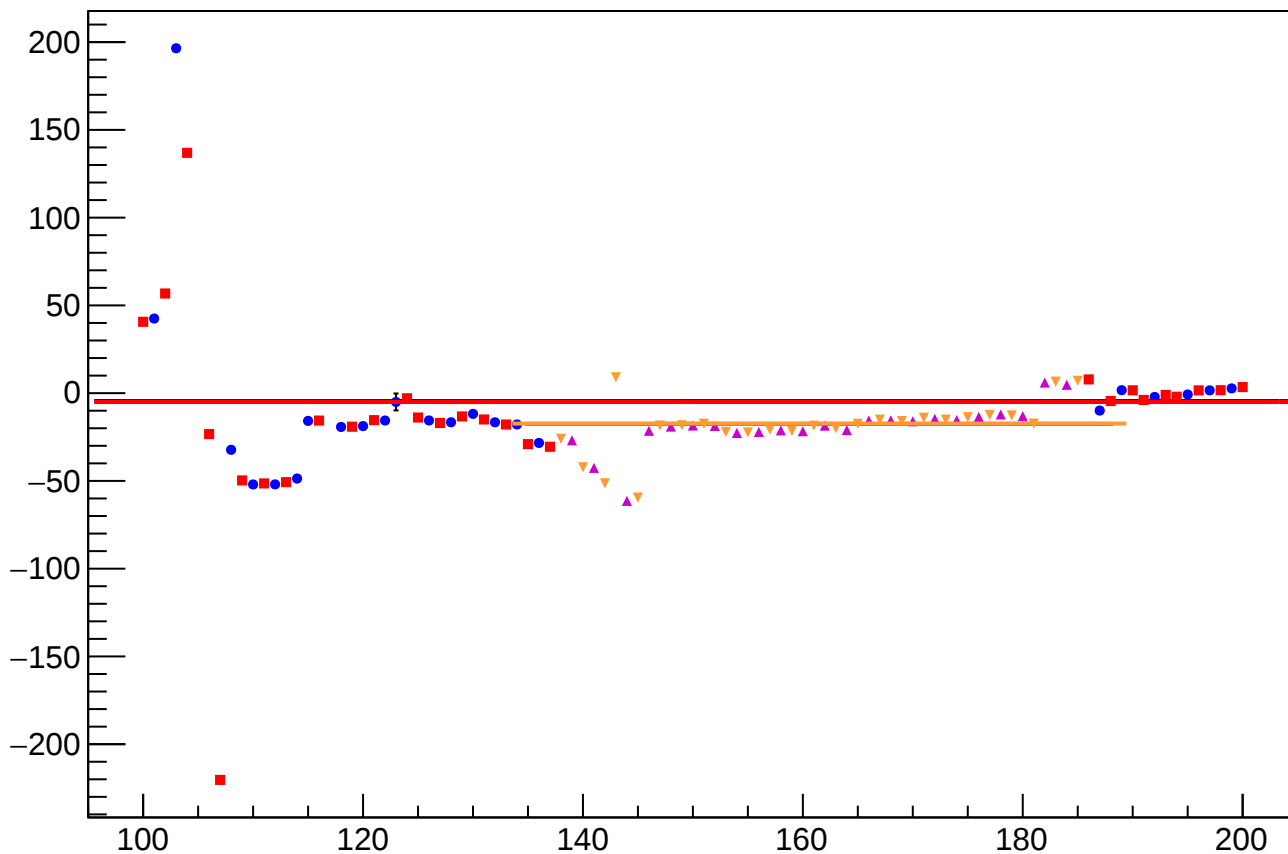
reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -27.504 ± 0.862 χ^2/NDF : 643.6/22
 Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24
 Right Out: -26.502 ± 0.816 χ^2/NDF : 559.3/27
 Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47
 Right: -26.976 ± 0.593 χ^2/NDF : 1203.7/50
 In: -15.297 ± 0.403 χ^2/NDF : 1566.8/45
 Out: -13.970 ± 0.390 χ^2/NDF : 1417.4/52
 All: -14.612 ± 0.280 χ^2/NDF : 2989.8/98

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -4.478 ± 0.043 $\chi^2/\text{NDF}: 587969.9/22$

Left Out: -17.333 ± 0.020 $\chi^2/\text{NDF}: 325197.2/24$

Right Out: -5.049 ± 0.039 $\chi^2/\text{NDF}: 590457.9/27$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

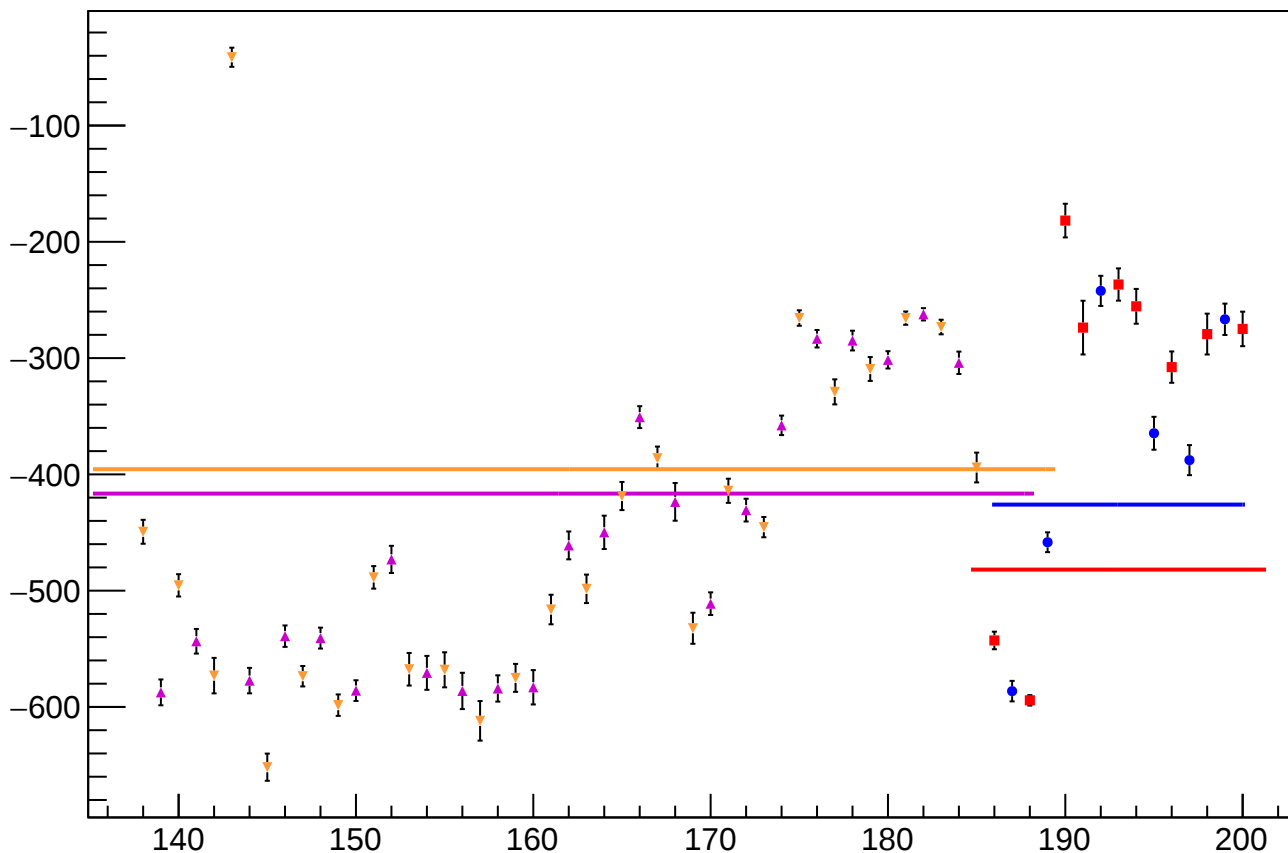
Right: -4.789 ± 0.029 $\chi^2/\text{NDF}: 1178525.3/50$

In: -15.023 ± 0.019 $\chi^2/\text{NDF}: 922304.9/45$

Out: -14.696 ± 0.018 $\chi^2/\text{NDF}: 993465.2/52$

All: -14.855 ± 0.013 $\chi^2/\text{NDF}: 1915928.7/98$

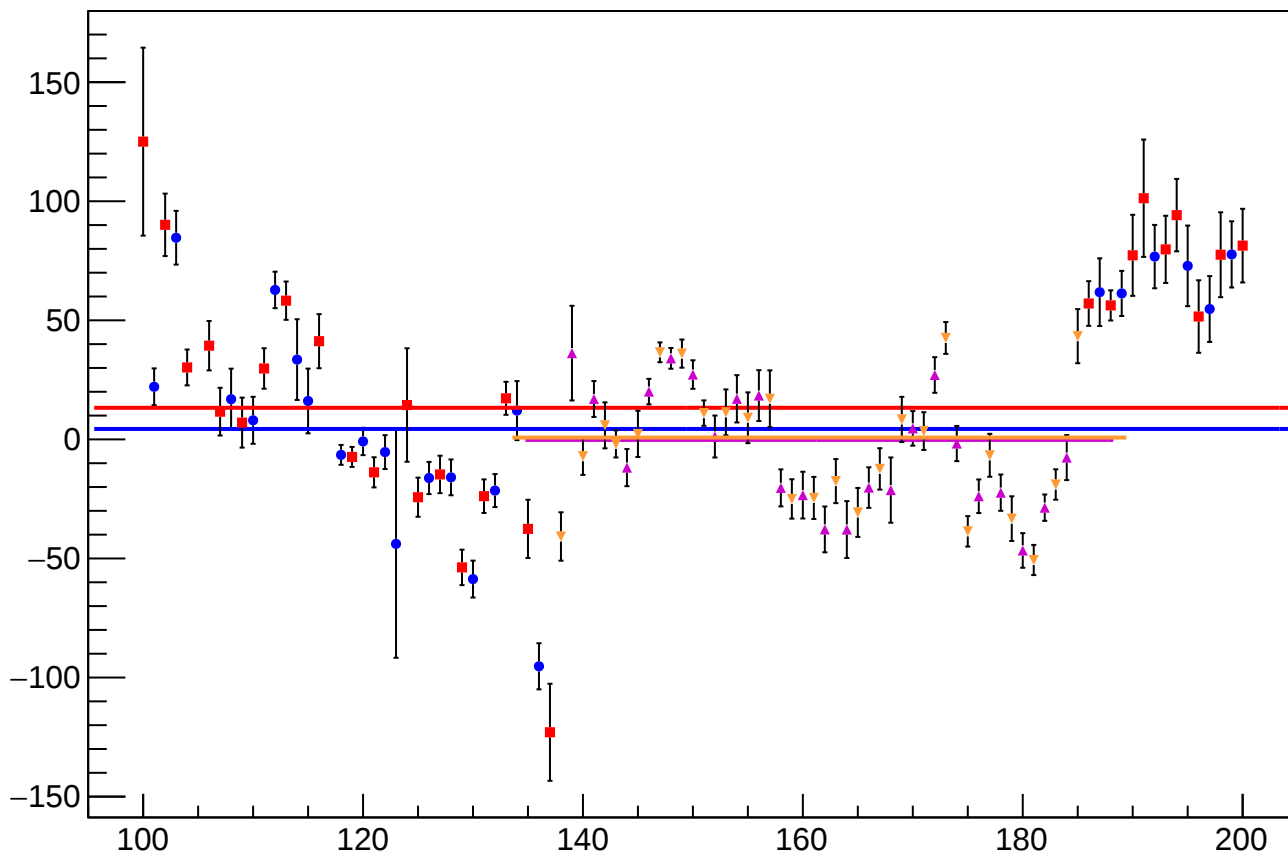
reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -425.975 ± 4.514 $\chi^2/\text{NDF}: 714.3/5$
 Left Out: -395.547 ± 1.953 $\chi^2/\text{NDF}: 5946.5/24$
 Right Out: -481.875 ± 3.214 $\chi^2/\text{NDF}: 2239.2/8$
 Left In: -416.521 ± 2.005 $\chi^2/\text{NDF}: 3917.0/22$

Left: -405.762 ± 1.399 $\chi^2/\text{NDF}: 9919.7/47$
 Right: -463.071 ± 2.618 $\chi^2/\text{NDF}: 3055.3/14$
 In: -418.079 ± 1.832 $\chi^2/\text{NDF}: 4635.0/28$
 Out: -418.838 ± 1.669 $\chi^2/\text{NDF}: 8712.6/33$
 All: -418.493 ± 1.234 $\chi^2/\text{NDF}: 13347.7/62$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.380 ± 1.811 $\chi^2/\text{NDF}: 472.0/22$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 13.282 ± 1.729 $\chi^2/\text{NDF}: 526.8/27$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

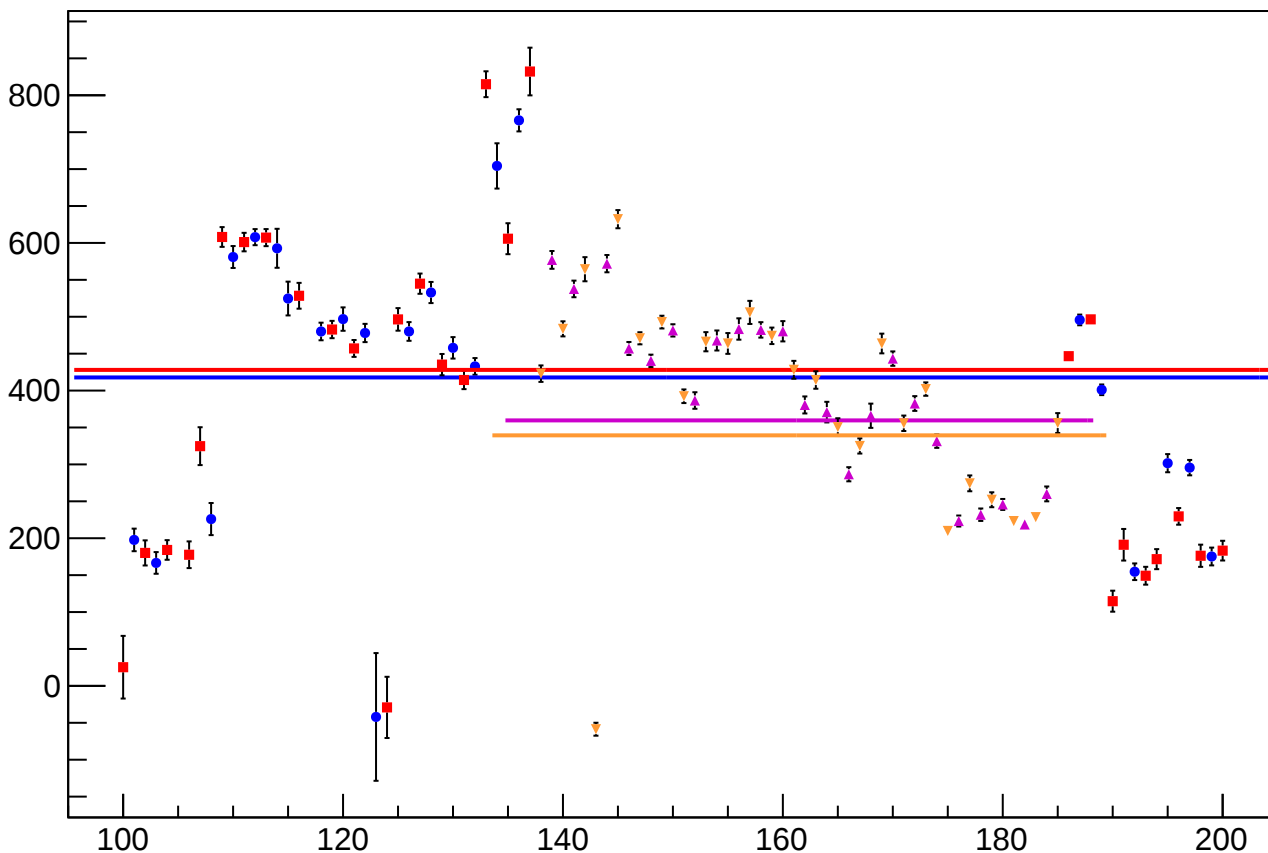
Right: 9.036 ± 1.250 $\chi^2/\text{NDF}: 1011.4/50$

In: 1.772 ± 1.188 $\chi^2/\text{NDF}: 736.4/45$

Out: 6.153 ± 1.134 $\chi^2/\text{NDF}: 906.7/52$

All: 4.065 ± 0.820 $\chi^2/\text{NDF}: 1650.2/98$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 417.785 ± 2.643 $\chi^2/\text{NDF}: 3197.0/22$

Left Out: 339.355 ± 1.963 $\chi^2/\text{NDF}: 5502.5/24$

Right Out: 428.014 ± 2.126 $\chi^2/\text{NDF}: 5246.6/27$

Left In: 359.609 ± 2.003 $\chi^2/\text{NDF}: 3398.5/22$

Left: 349.278 ± 1.402 $\chi^2/\text{NDF}: 8953.2/47$

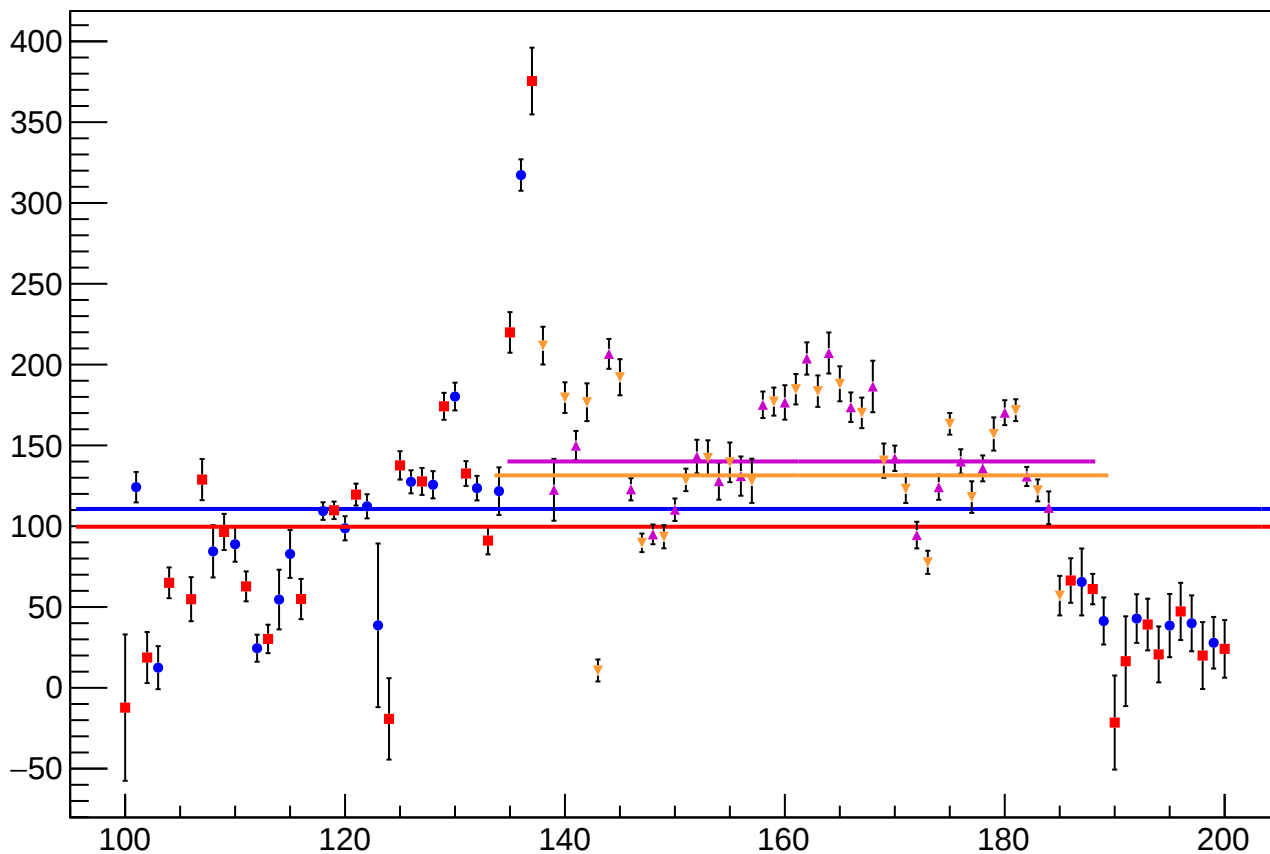
Right: 423.996 ± 1.656 $\chi^2/\text{NDF}: 8452.7/50$

In: 380.829 ± 1.596 $\chi^2/\text{NDF}: 6903.3/45$

Out: 380.152 ± 1.442 $\chi^2/\text{NDF}: 11688.1/52$

All: 380.456 ± 1.070 $\chi^2/\text{NDF}: 18591.5/98$

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 110.668 $\pm$ 2.121 χ^2 /NDF: 820.9/22

Left Out: 131.464 $\pm$ 1.728 χ^2 /NDF:809.3/24

Right Out: 99.674 $\pm$ 2.042 χ^2 /NDF: 712.4/27

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

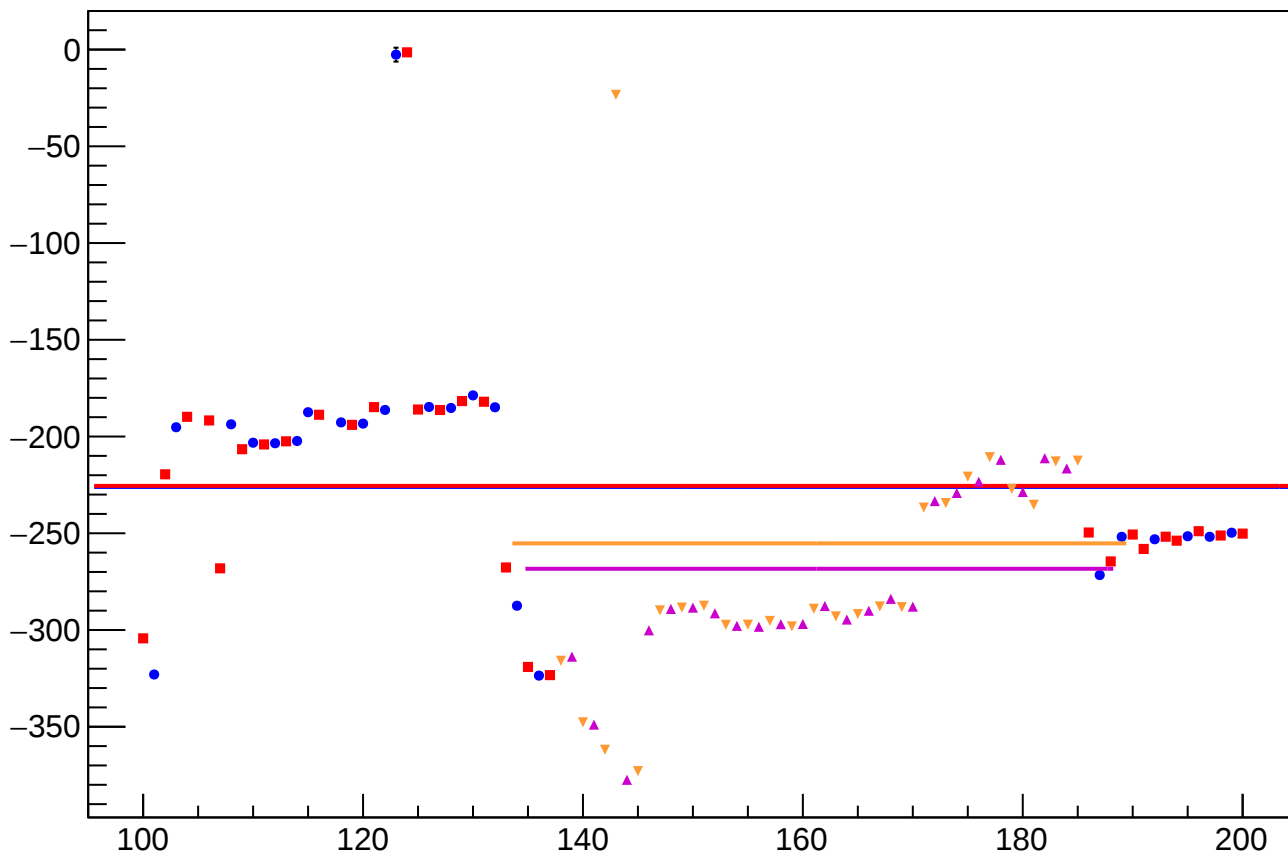
Right: 104.962 $\pm$ 1.471 χ^2 /NDF: 1547.3/50

In: 127.797 $\pm$ 1.370 χ^2 /NDF:1249.4/45

Out: 118.201 $\pm$ 1.319 χ^2 /NDF:1663.0/52

All: 122.816 $\pm$ 0.950 χ^2 /NDF: 2937.9/98

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -226.037 $\pm$ 0.118 χ^2 /NDF: 163357.1/22

Left Out: -255.232 $\pm$ 0.082 χ^2 /NDF: 728016.7/24

Right Out: -225.503 $\pm$ 0.108 χ^2 /NDF: 147089.2/27

Left In: -268.353 $\pm$ 0.084 χ^2 /NDF: 262479.3/22

Left: -261.661 $\pm$ 0.059 χ^2 /NDF: 1003051.2/47

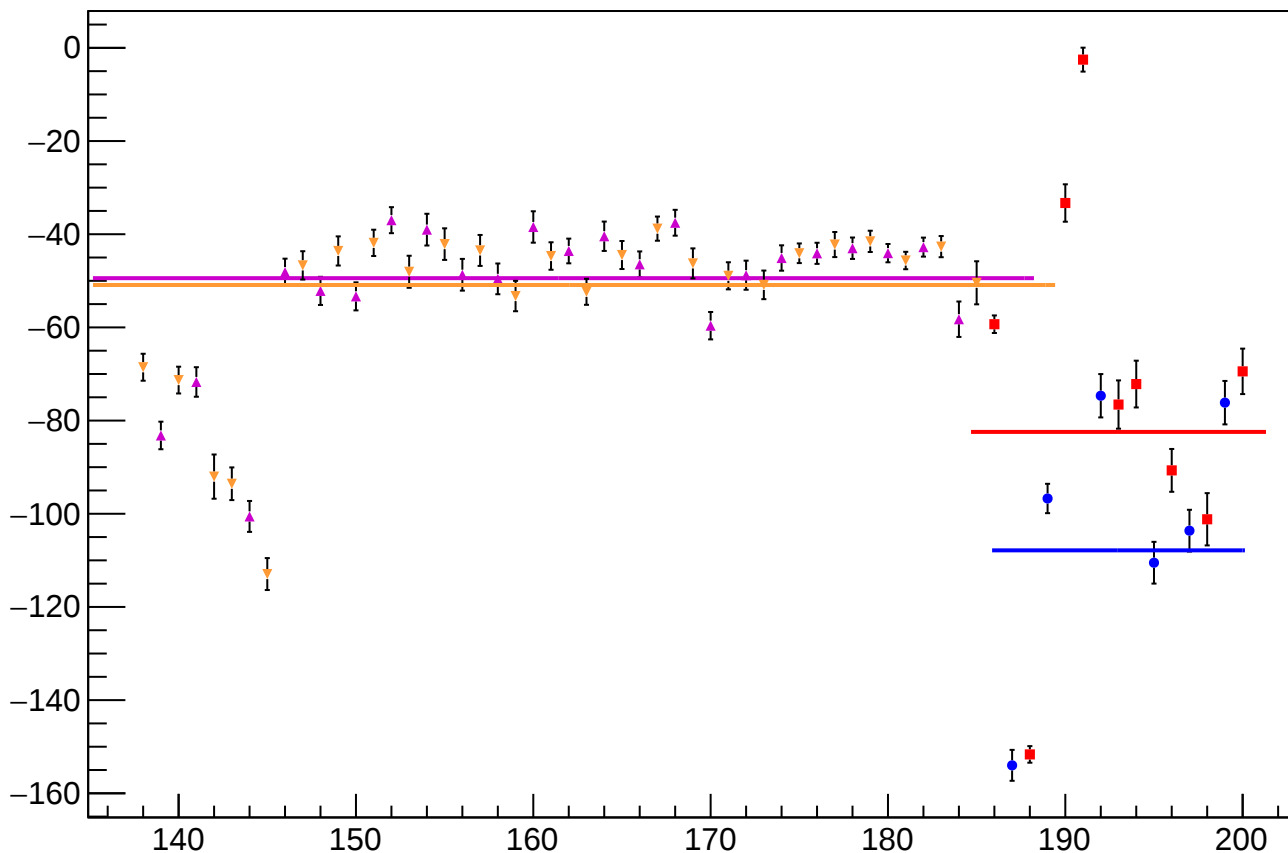
Right: -225.747 $\pm$ 0.080 χ^2 /NDF: 310457.3/50

In: -254.262 $\pm$ 0.068 χ^2 /NDF: 511106.1/45

Out: -244.409 $\pm$ 0.065 χ^2 /NDF: 923003.1/52

All: -249.119 $\pm$ 0.047 χ^2 /NDF: 1444972.9/98

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -107.853 ± 1.615 χ^2/NDF : 304.3/5

Left Out: -50.897 ± 0.573 χ^2/NDF : 761.1/24

Right Out: -82.430 ± 0.996 χ^2/NDF : 2806.5/8

Left In: -49.432 ± 0.584 χ^2/NDF : 543.4/22

Left: -50.179 ± 0.409 χ^2/NDF : 1307.8/47

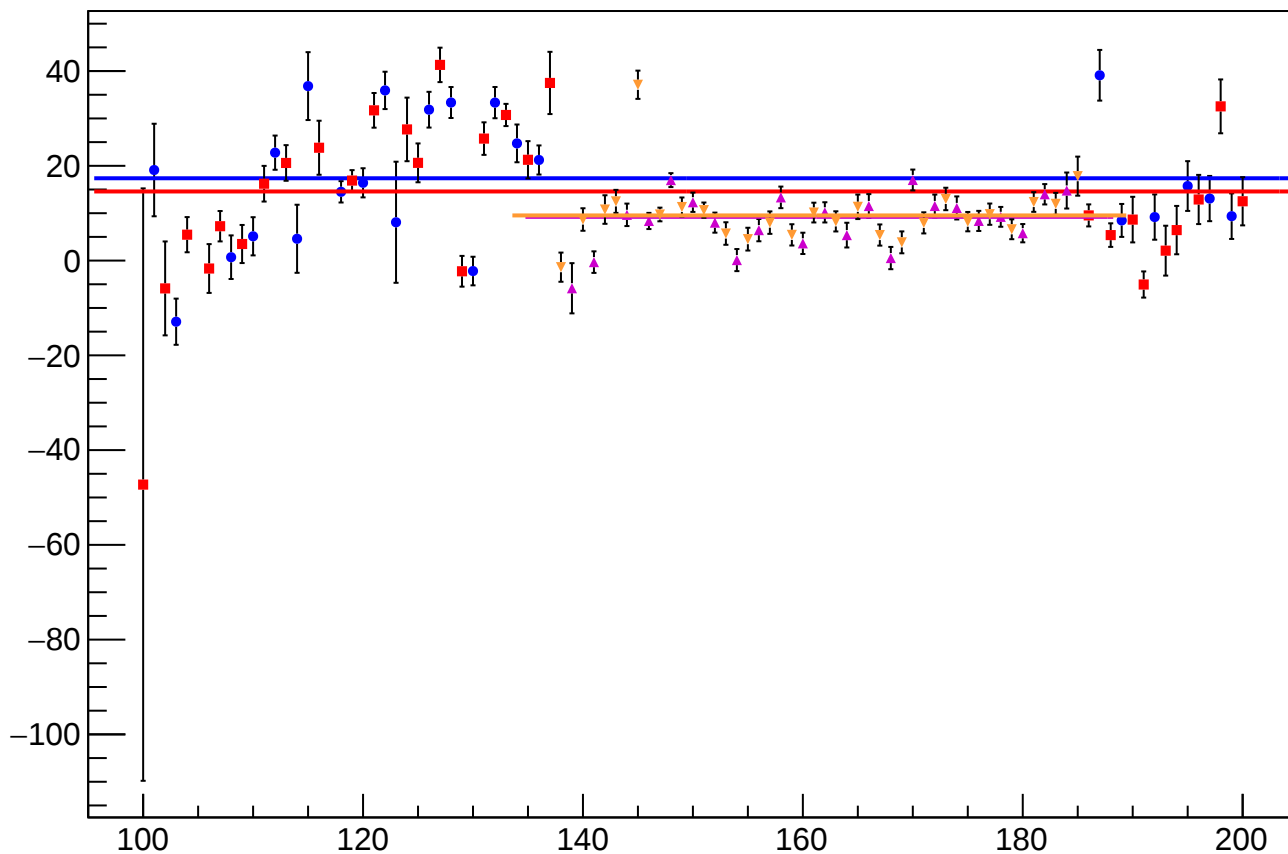
Right: -89.434 ± 0.848 χ^2/NDF : 3290.3/14

In: -56.186 ± 0.549 χ^2/NDF : 2005.0/28

Out: -58.735 ± 0.497 χ^2/NDF : 4321.0/33

All: -57.589 ± 0.368 χ^2/NDF : 6337.9/62

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.374 ± 0.825 $\chi^2/\text{NDF}: 237.0/22$

Left Out: 9.530 ± 0.446 $\chi^2/\text{NDF}: 134.4/24$

Right Out: 14.587 ± 0.700 $\chi^2/\text{NDF}: 311.4/27$

Left In: 9.231 ± 0.462 $\chi^2/\text{NDF}: 124.0/22$

Left: 9.386 ± 0.321 $\chi^2/\text{NDF}: 258.5/47$

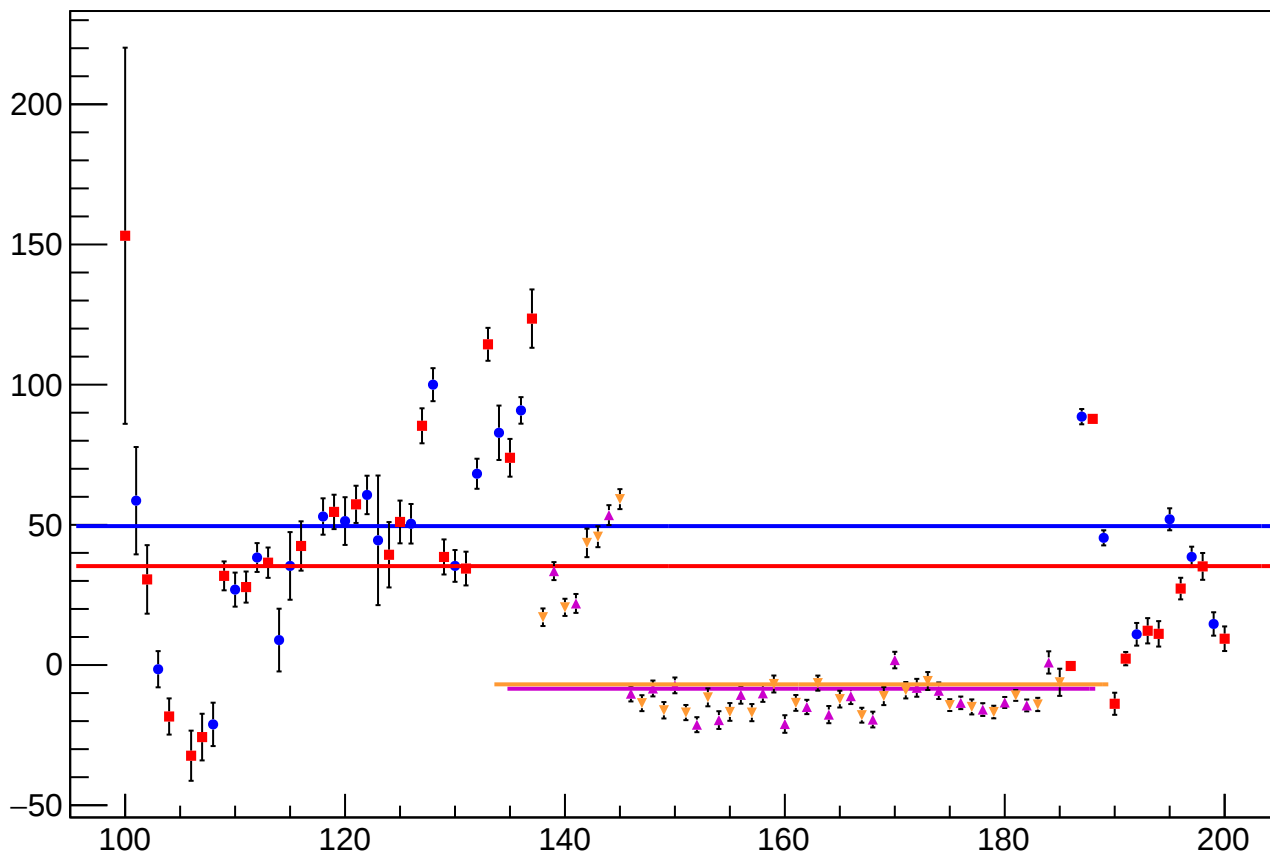
Right: 15.753 ± 0.534 $\chi^2/\text{NDF}: 555.1/50$

In: 11.173 ± 0.403 $\chi^2/\text{NDF}: 435.2/45$

Out: 10.991 ± 0.376 $\chi^2/\text{NDF}: 482.9/52$

All: 11.076 ± 0.275 $\chi^2/\text{NDF}: 918.2/98$

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 49.553 ± 1.062 $\chi^2/\text{NDF}: 740.2/22$

Left Out: -6.888 ± 0.571 $\chi^2/\text{NDF}: 914.2/24$

Right Out: 35.286 ± 0.743 $\chi^2/\text{NDF}: 2897.3/27$

Left In: -8.451 ± 0.580 $\chi^2/\text{NDF}: 688.9/22$

Left: -7.658 ± 0.407 $\chi^2/\text{NDF}: 1606.8/47$

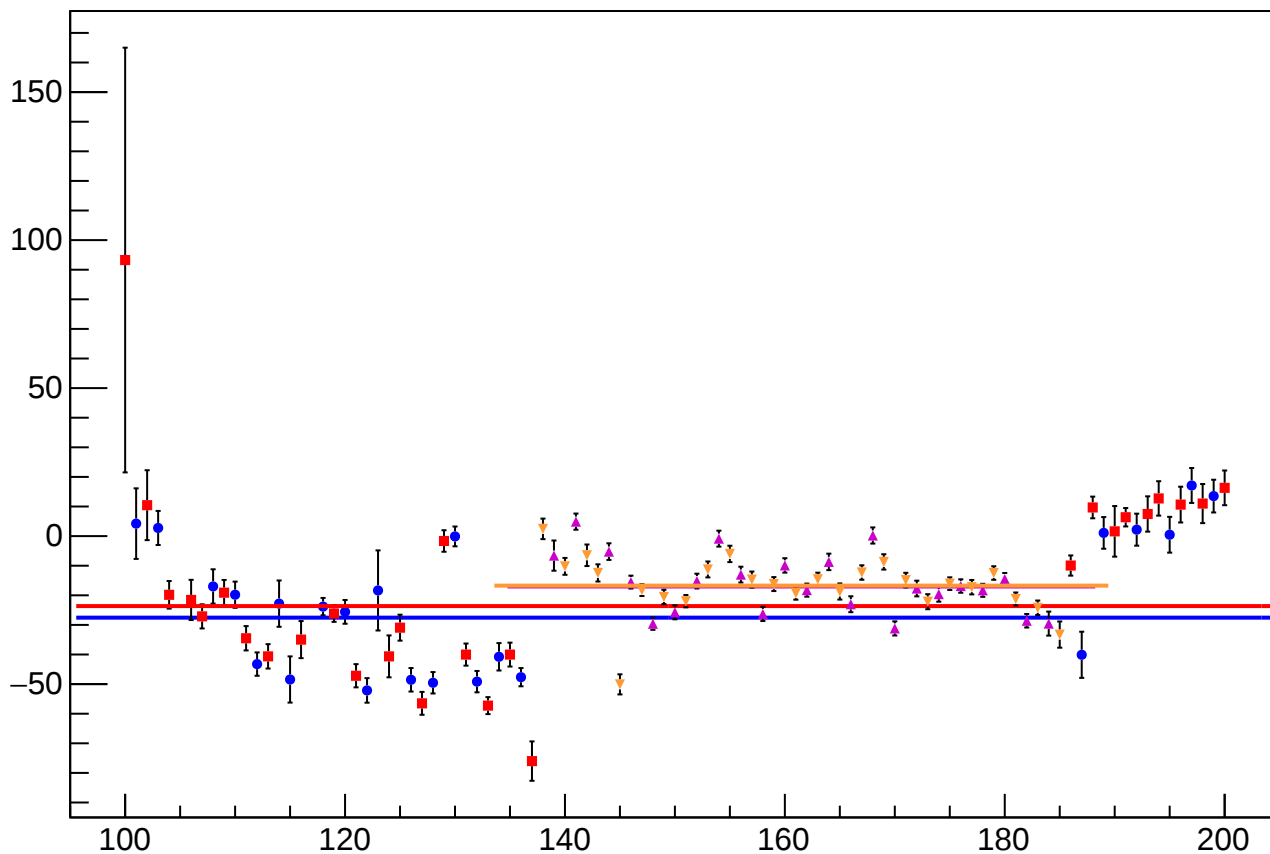
Right: 39.968 ± 0.609 $\chi^2/\text{NDF}: 3758.6/50$

In: 4.859 ± 0.509 $\chi^2/\text{NDF}: 3725.5/45$

Out: 8.781 ± 0.453 $\chi^2/\text{NDF}: 5838.5/52$

All: 7.049 ± 0.338 $\chi^2/\text{NDF}: 9597.2/98$

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -27.549 ± 0.958 χ^2/NDF : 516.4/22

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -23.638 ± 0.837 χ^2/NDF : 803.1/27

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

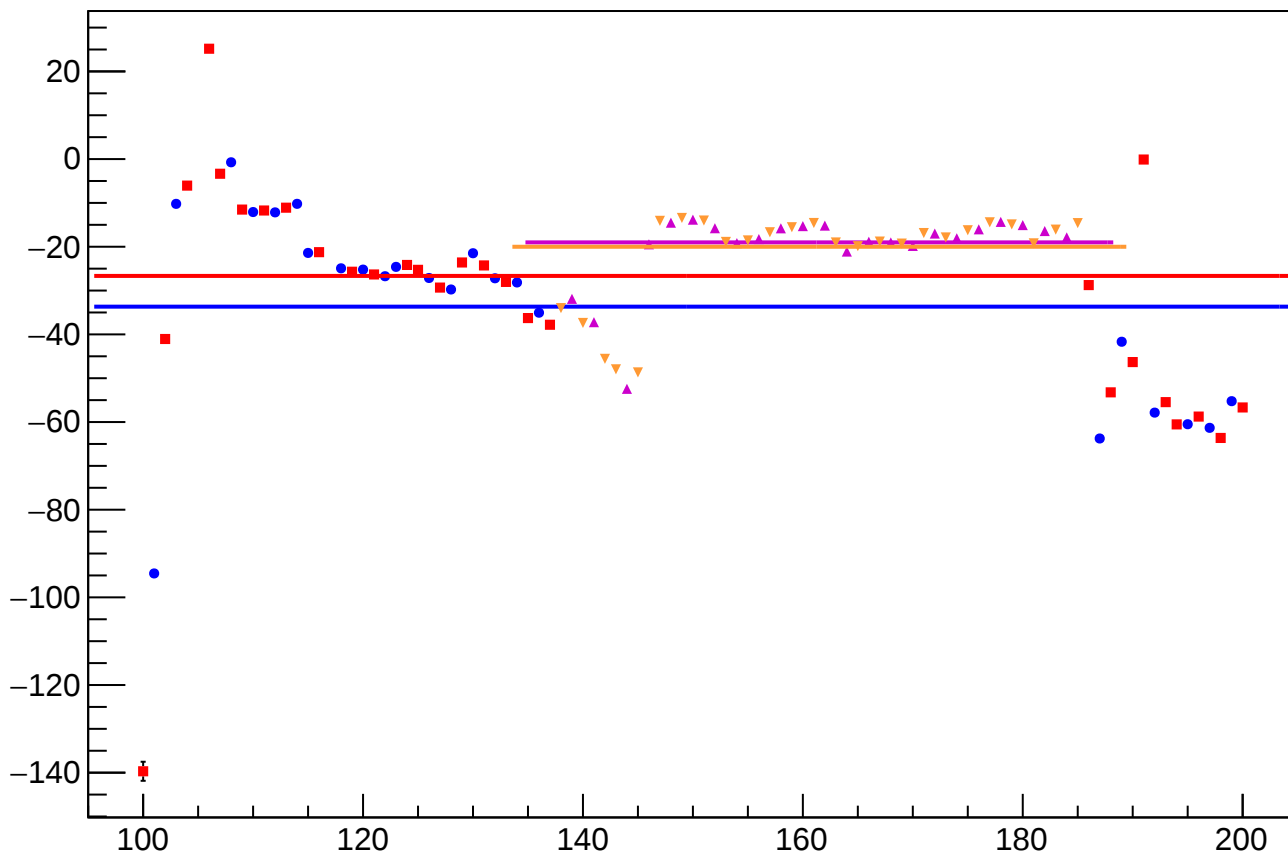
Right: -25.330 ± 0.630 χ^2/NDF : 1329.0/50

In: -19.431 ± 0.458 χ^2/NDF : 937.1/45

Out: -18.586 ± 0.433 χ^2/NDF : 1076.2/52

All: -18.985 ± 0.315 χ^2/NDF : 2015.2/98

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -33.671+/-0.048 χ^2/NDF : 177957.5/22

Left Out: -20.006+/-0.023 χ^2/NDF : 145623.8/24

Right Out: -26.659+/-0.039 χ^2/NDF : 387613.7/27

Left In: -19.007+/-0.024 χ^2/NDF : 90873.3/22

Left: -19.514+/-0.017 χ^2/NDF : 237400.2/47

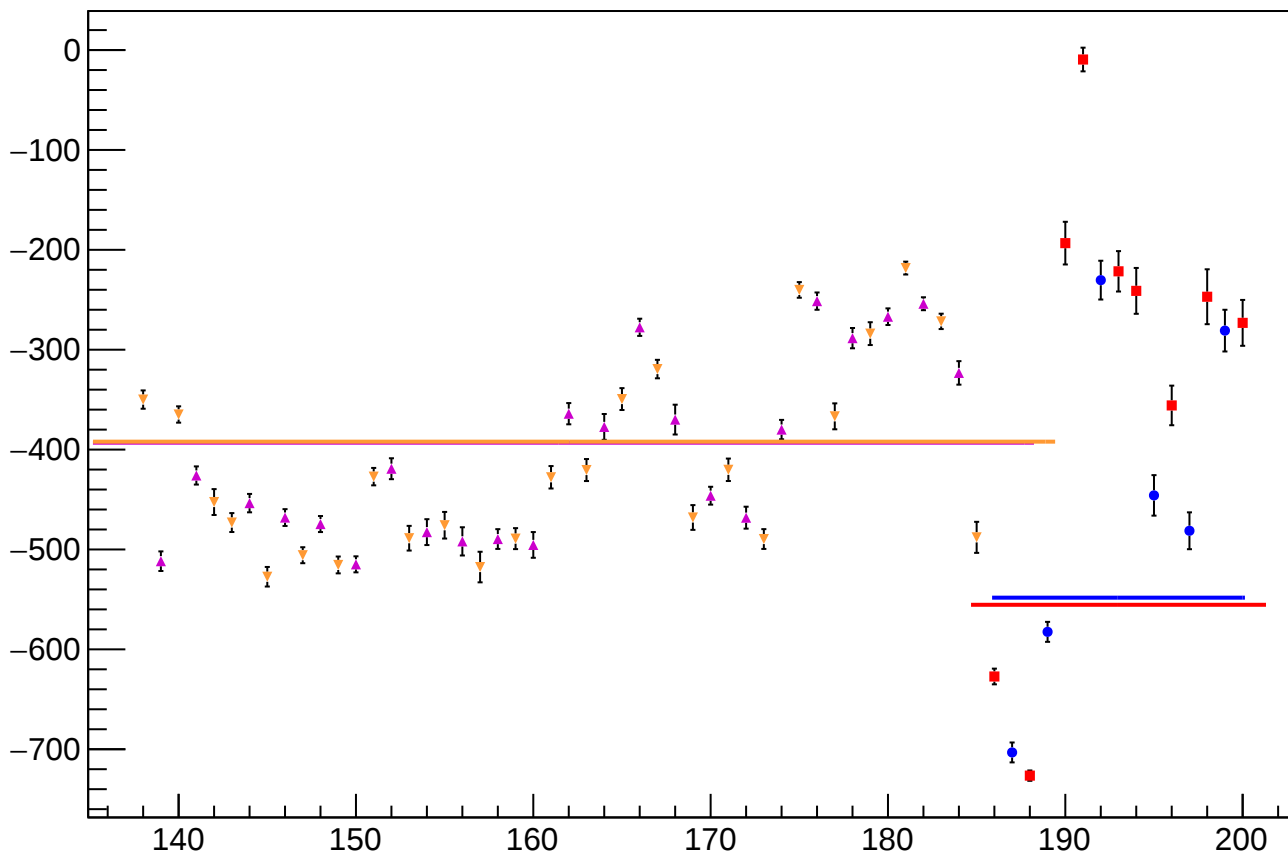
Right: -29.474+/-0.030 χ^2/NDF : 578559.6/50

In: -21.915+/-0.021 χ^2/NDF : 344907.2/45

Out: -21.757+/-0.020 χ^2/NDF : 554698.7/52

All: -21.831+/-0.015 χ^2/NDF : 899635.4/98

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -548.253+/-5.737 χ^2/NDF : 724.4/5

Left Out: -392.054+/-1.967 χ^2/NDF : 2717.2/24

Right Out: -555.389+/-3.704 χ^2/NDF : 4419.5/8

Left In: -393.113+/-2.006 χ^2/NDF : 2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

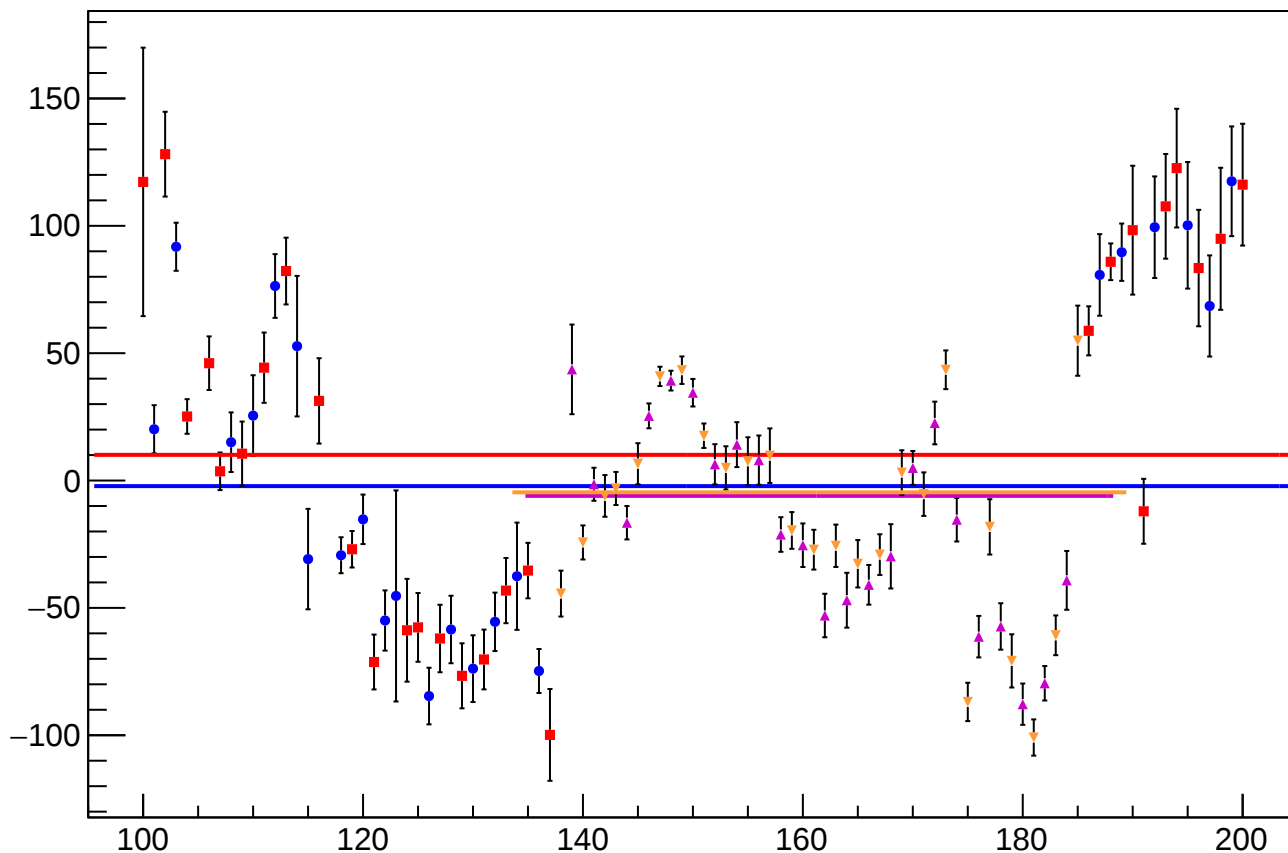
Right: -553.289+/-3.112 χ^2/NDF : 5144.9/14

In: -410.008+/-1.893 χ^2/NDF : 3629.3/28

Out: -427.968+/-1.737 χ^2/NDF : 8653.4/33

All: -419.759+/-1.280 χ^2/NDF : 12331.6/62

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.193 ± 2.618 $\chi^2/\text{NDF}: 571.0/22$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 10.084 ± 2.273 $\chi^2/\text{NDF}: 661.8/27$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

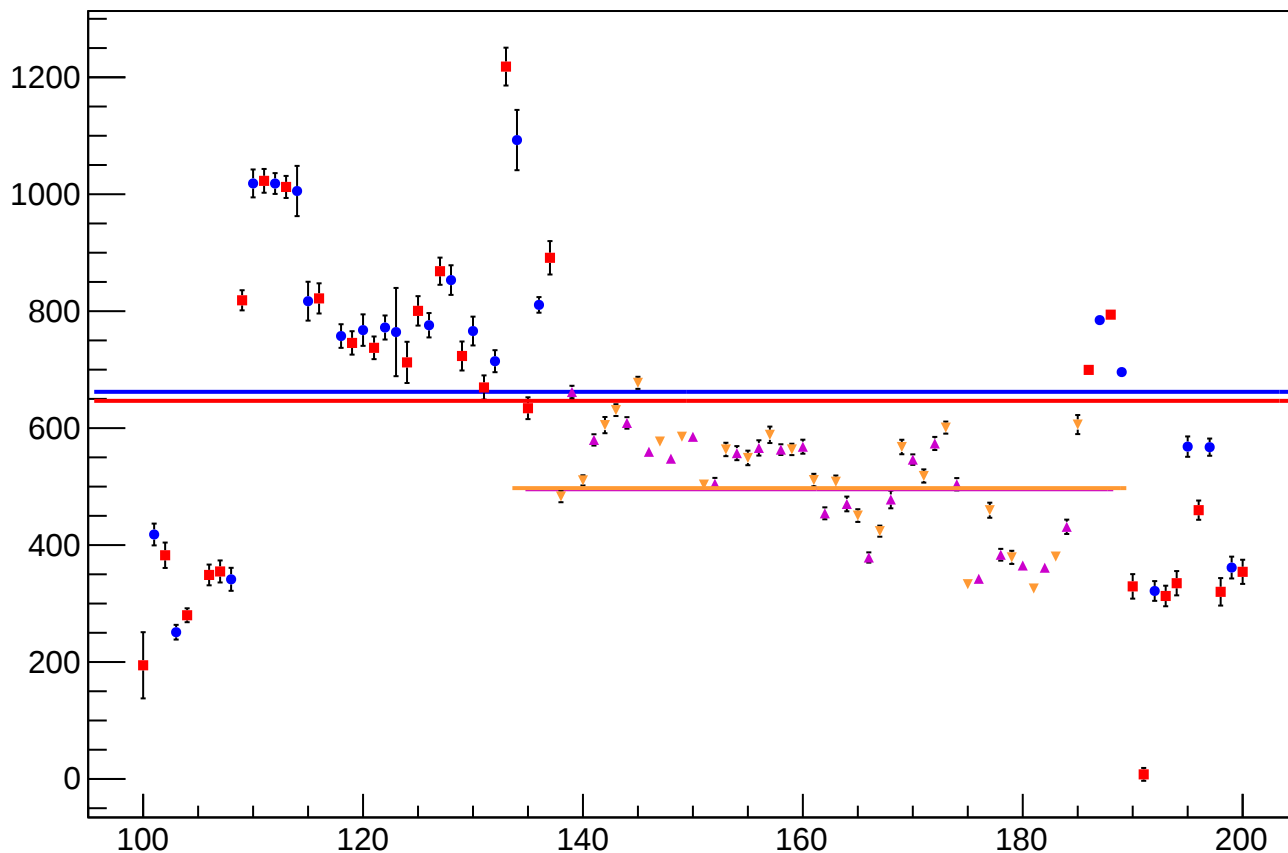
Right: 4.808 ± 1.716 $\chi^2/\text{NDF}: 1245.3/50$

In: -5.058 ± 1.312 $\chi^2/\text{NDF}: 1226.7/45$

Out: -0.318 ± 1.230 $\chi^2/\text{NDF}: 1464.3/52$

All: -2.535 ± 0.897 $\chi^2/\text{NDF}: 2697.9/98$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 662.090+/-3.481 χ^2/NDF : 3564.2/22

Left Out: 497.381+/-1.966 χ^2/NDF : 2614.6/24

Right Out: 646.652+/-2.571 χ^2/NDF : 9169.4/27

Left In: 495.454+/-1.992 χ^2/NDF : 2253.8/22

Left: 496.430+/-1.399 χ^2/NDF : 4868.9/47

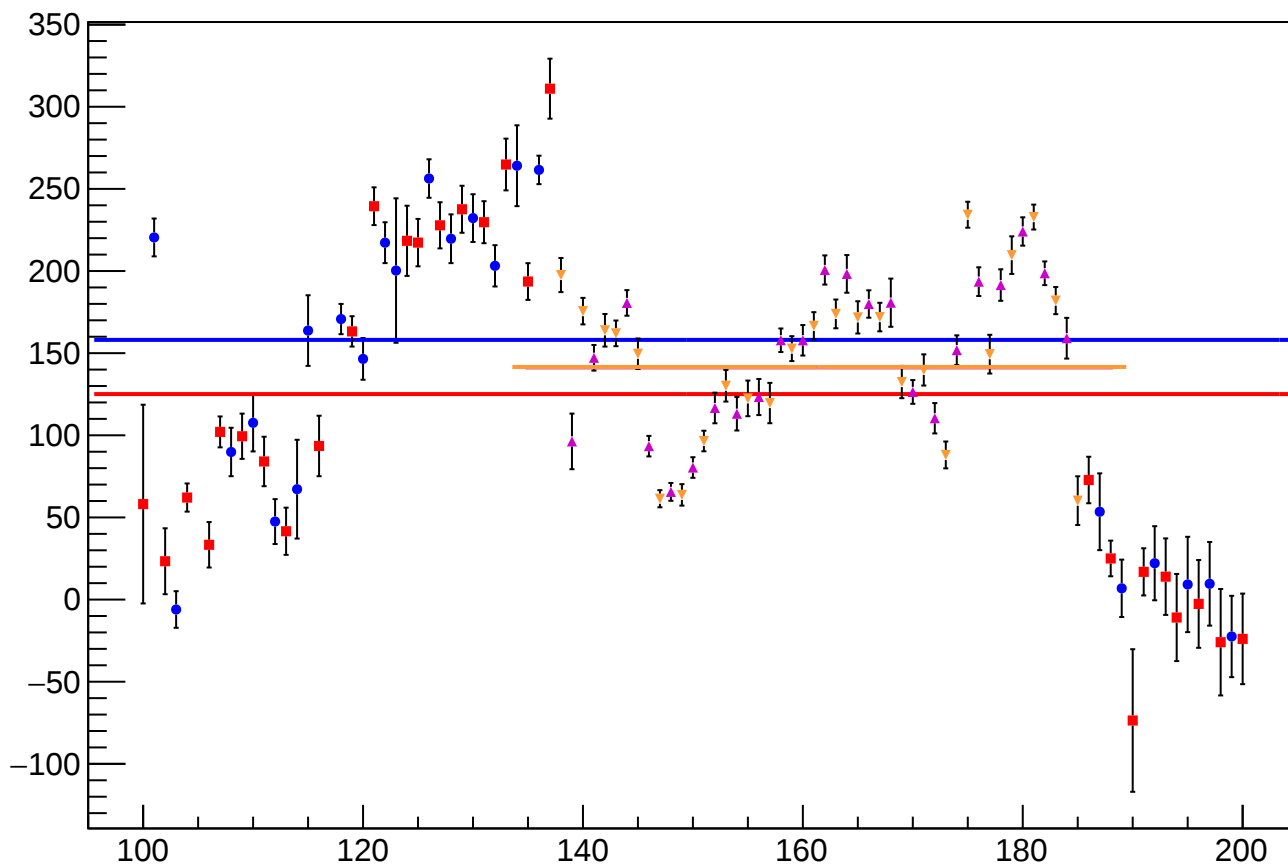
Right: 652.102+/-2.068 χ^2/NDF : 12746.4/50

In: 536.574+/-1.729 χ^2/NDF : 7544.5/45

Out: 552.456+/-1.562 χ^2/NDF : 13911.2/52

All: 545.320+/-1.159 χ^2/NDF : 21502.2/98

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 158.081 ± 3.066 $\chi^2/\text{NDF}: 909.1/22$

Left Out: 141.588 ± 1.698 $\chi^2/\text{NDF}: 959.6/24$

Right Out: 125.092 ± 2.736 $\chi^2/\text{NDF}: 1056.3/27$

Left In: 141.360 ± 1.748 $\chi^2/\text{NDF}: 741.2/22$

Left: 141.478 ± 1.218 $\chi^2/\text{NDF}: 1700.8/47$

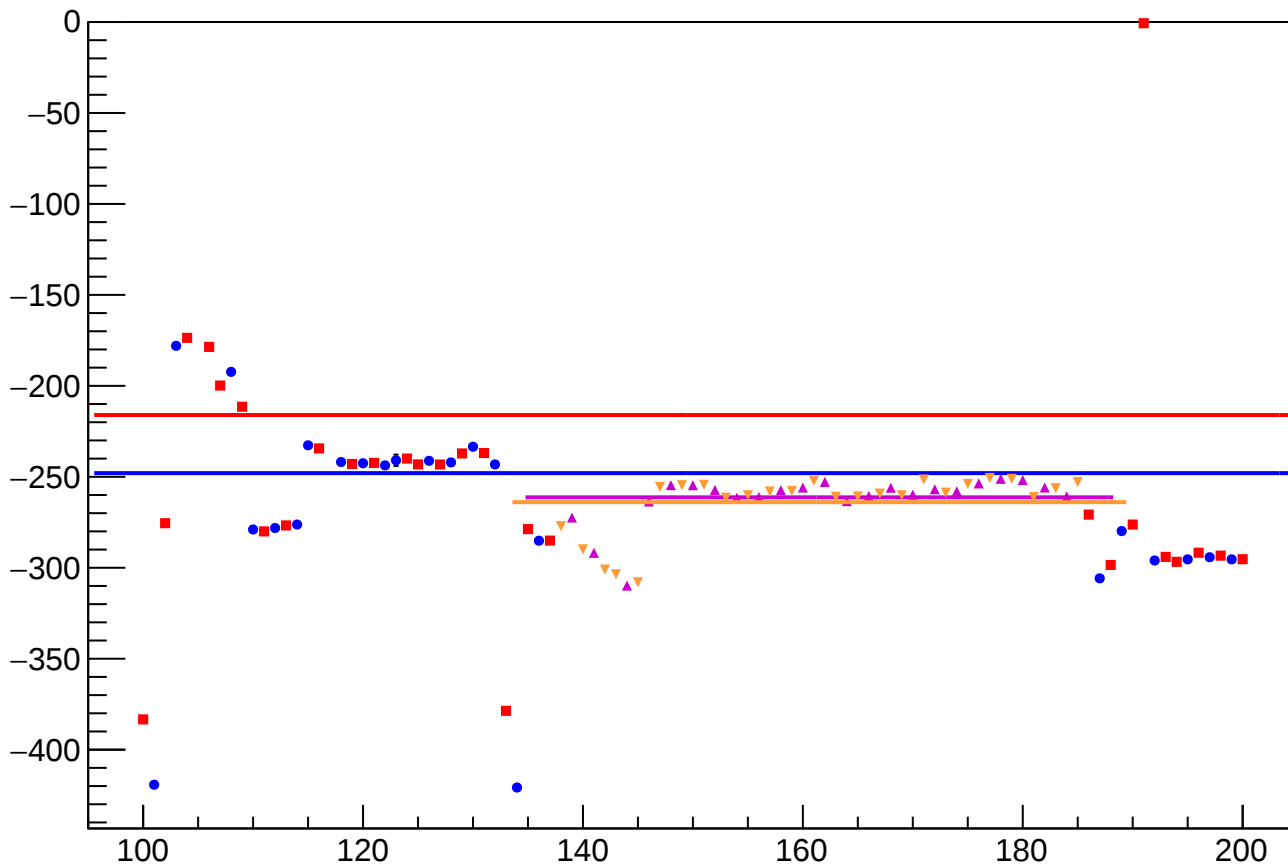
Right: 139.716 ± 2.041 $\chi^2/\text{NDF}: 2029.8/50$

In: 145.462 ± 1.519 $\chi^2/\text{NDF}: 1672.8/45$

Out: 137.000 ± 1.443 $\chi^2/\text{NDF}: 2042.1/52$

All: 141.015 ± 1.046 $\chi^2/\text{NDF}: 3731.2/98$

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -247.974+/-0.146 χ^2/NDF : 188452.6/22

Left Out: -263.943+/-0.081 χ^2/NDF : 39085.0/24

Right Out: -216.041+/-0.127 χ^2/NDF : 479518.2/27

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

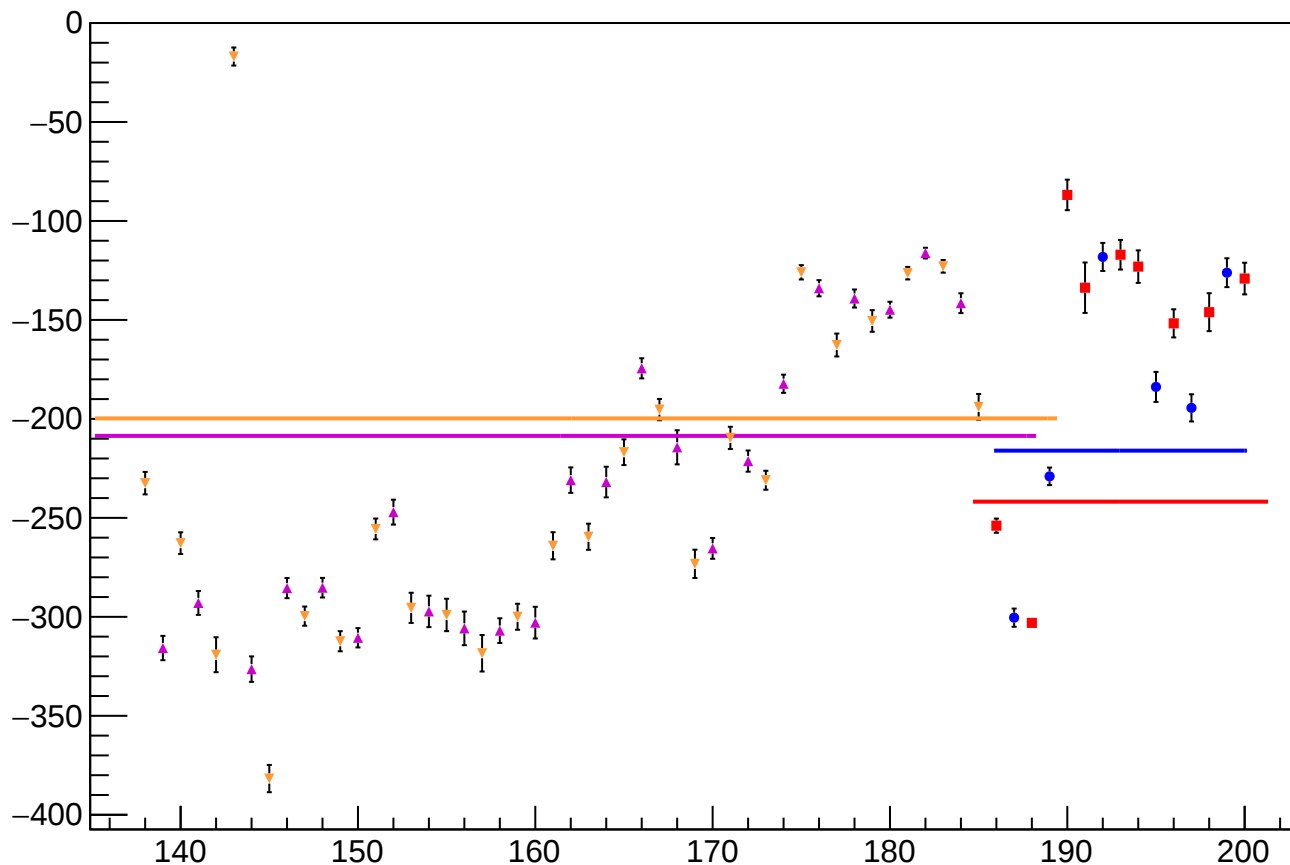
Right: -229.788+/-0.096 χ^2/NDF : 695316.3/50

In: -258.087+/-0.071 χ^2/NDF : 218139.9/45

Out: -249.985+/-0.068 χ^2/NDF : 619891.1/52

All: -253.859+/-0.049 χ^2/NDF : 844740.1/98

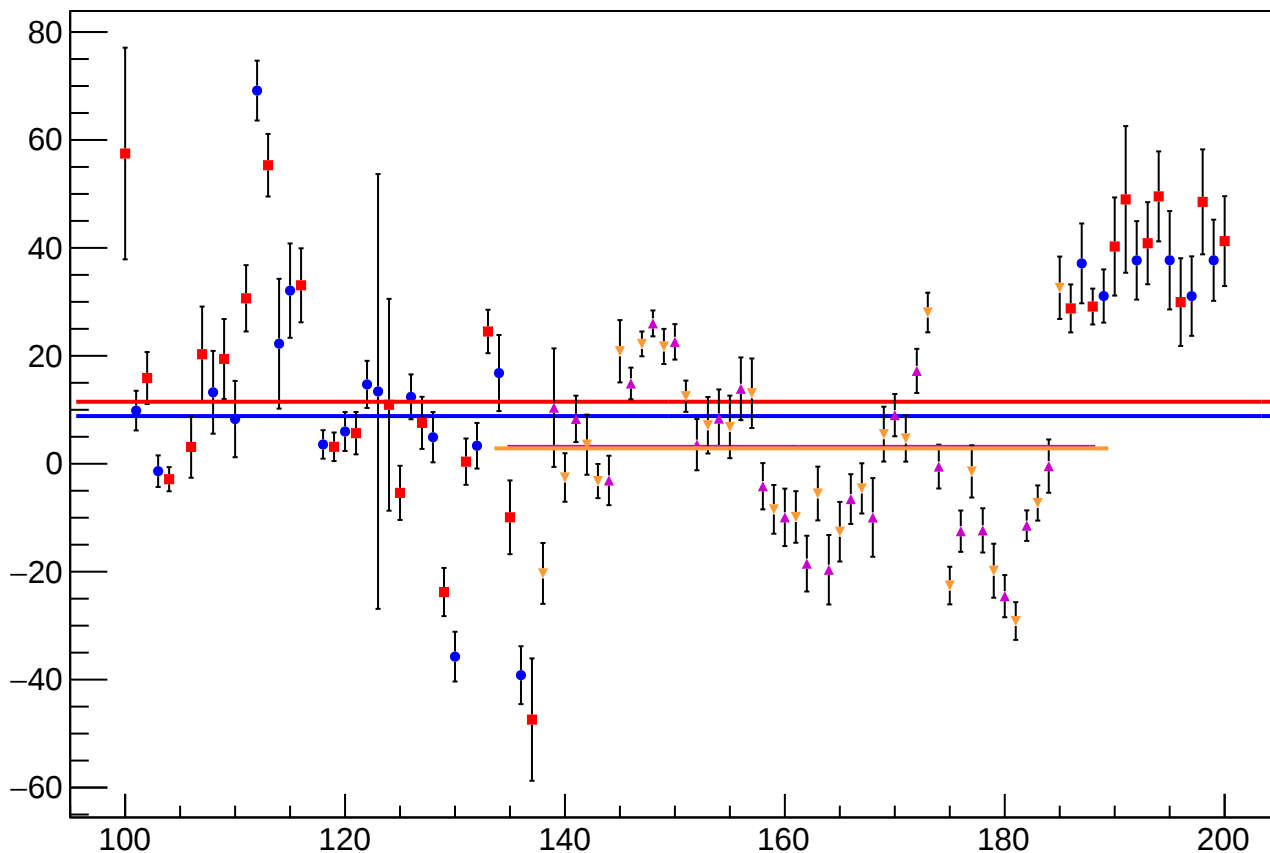
reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -216.039 $\pm$ 2.386 χ^2 /NDF: 717.5/5
 Left Out: -199.741 $\pm$ 1.061 χ^2 /NDF:6361.5/24
 Right Out: -241.812 $\pm$ 1.672 χ^2 /NDF: 2099.4/8
 Left In: -208.579 $\pm$ 1.082 χ^2 /NDF:4805.1/22

Left: -204.073 $\pm$ 0.758 χ^2 /NDF: 11200.6/47
 Right: -233.318 $\pm$ 1.369 χ^2 /NDF: 2895.1/14
 In: -209.853 $\pm$ 0.986 χ^2 /NDF:5530.7/28
 Out: -211.816 $\pm$ 0.896 χ^2 /NDF:8912.0/33
 All: -210.927 $\pm$ 0.663 χ^2 /NDF: 14444.9/62

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.835 ± 1.030 $\chi^2/\text{NDF}: 408.5/22$

Left Out: 2.853 ± 0.820 $\chi^2/\text{NDF}: 419.8/24$

Right Out: 11.491 ± 0.952 $\chi^2/\text{NDF}: 398.2/27$

Left In: 3.136 ± 0.857 $\chi^2/\text{NDF}: 319.8/22$

Left: 2.988 ± 0.592 $\chi^2/\text{NDF}: 739.7/47$

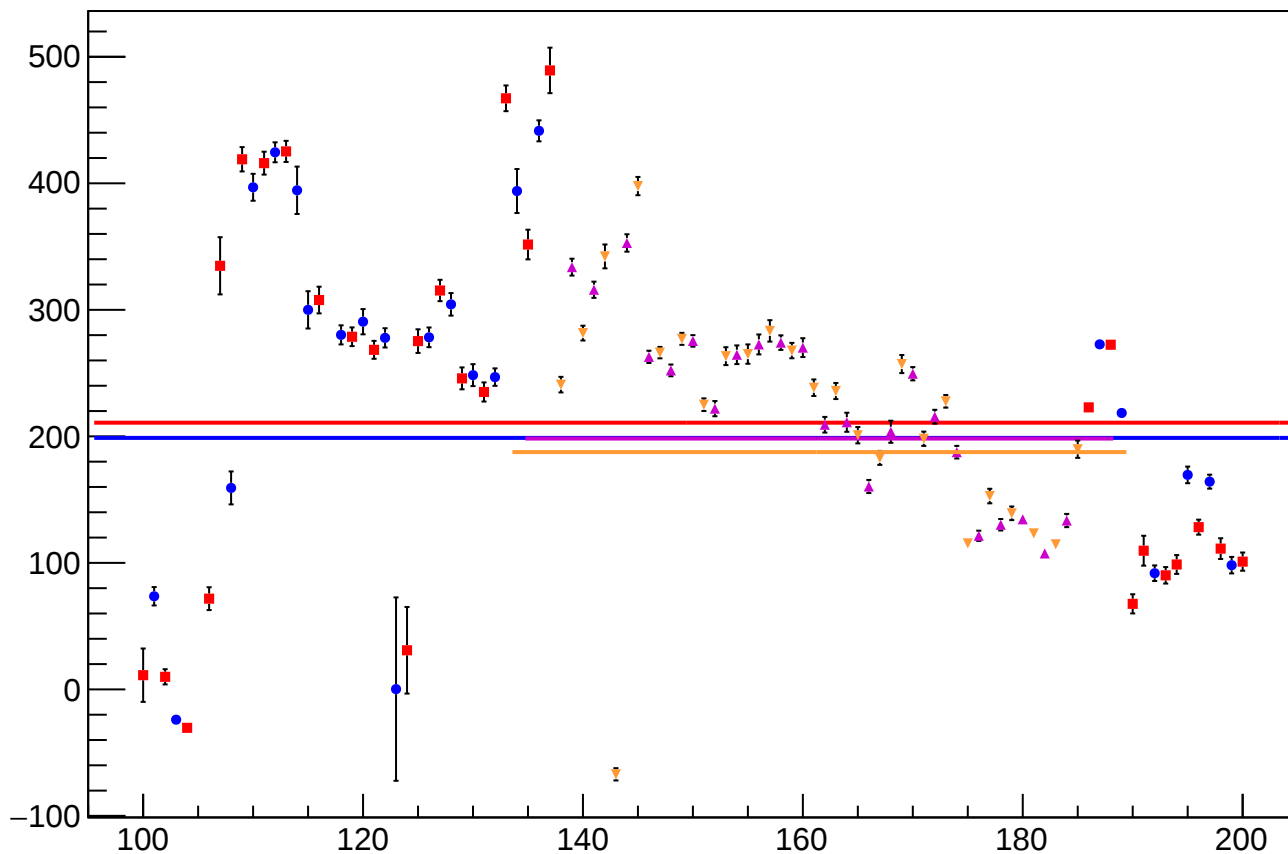
Right: 10.268 ± 0.699 $\chi^2/\text{NDF}: 810.3/50$

In: 5.465 ± 0.659 $\chi^2/\text{NDF}: 746.4/45$

Out: 6.533 ± 0.621 $\chi^2/\text{NDF}: 865.3/52$

All: 6.030 ± 0.452 $\chi^2/\text{NDF}: 1613.1/98$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 198.784 ± 1.413 $\chi^2/\text{NDF}: 7729.2/22$

Left Out: 187.565 ± 1.066 $\chi^2/\text{NDF}: 7082.0/24$

Right Out: 210.808 ± 1.122 $\chi^2/\text{NDF}: 10948.6/27$

Left In: 198.269 ± 1.082 $\chi^2/\text{NDF}: 4515.8/22$

Left: 192.839 ± 0.759 $\chi^2/\text{NDF}: 11647.5/47$

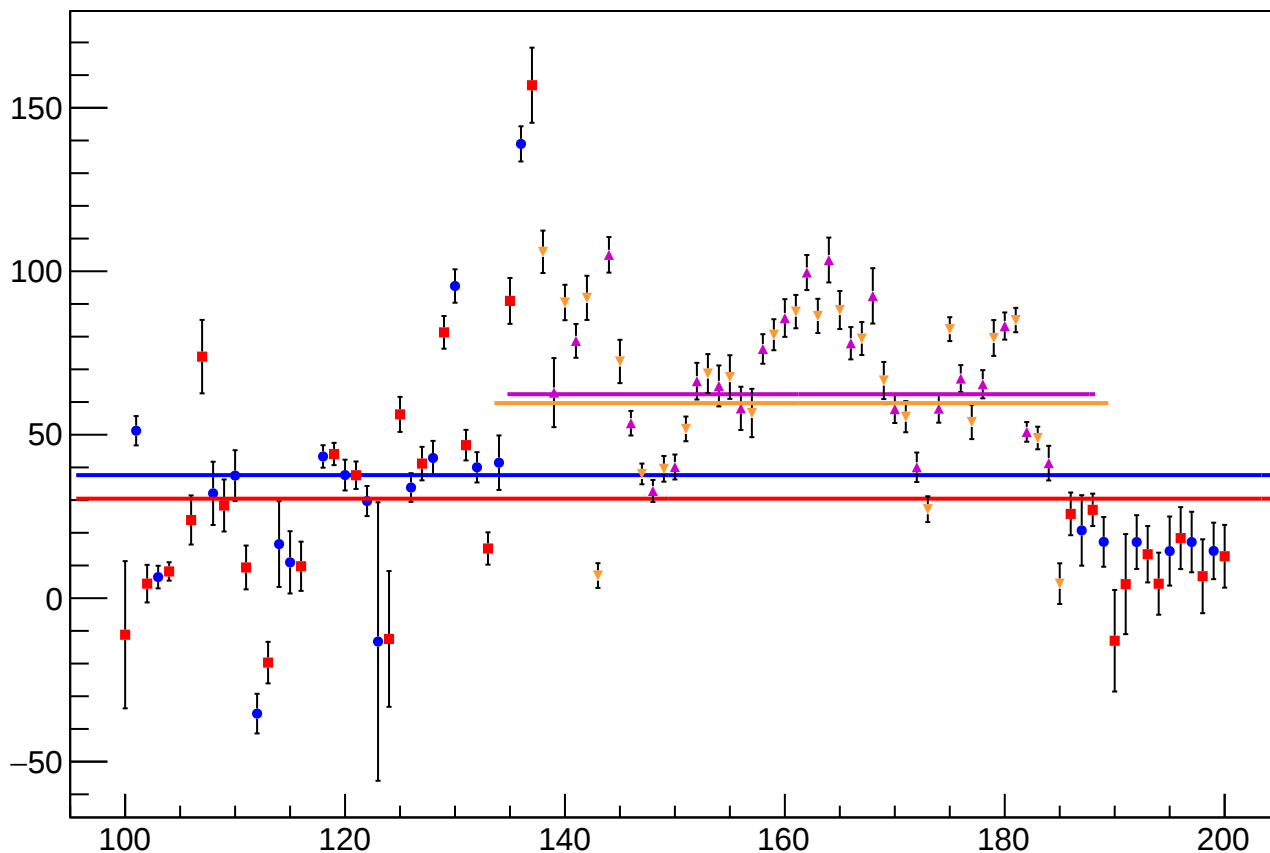
Right: 206.158 ± 0.879 $\chi^2/\text{NDF}: 18722.2/50$

In: 198.459 ± 0.859 $\chi^2/\text{NDF}: 12245.1/45$

Out: 198.592 ± 0.773 $\chi^2/\text{NDF}: 18256.2/52$

All: 198.532 ± 0.574 $\chi^2/\text{NDF}: 30501.3/98$

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 37.639 $\pm$ 1.213 χ^2 /NDF: 770.7/22

Left Out: 59.682 $\pm$ 0.941 χ^2 /NDF: 757.6/24

Right Out: 30.437 $\pm$ 1.144 χ^2 /NDF: 586.2/27

Left In: 62.400 $\pm$ 0.974 χ^2 /NDF: 406.3/22

Left: 60.993 $\pm$ 0.677 χ^2 /NDF: 1167.9/47

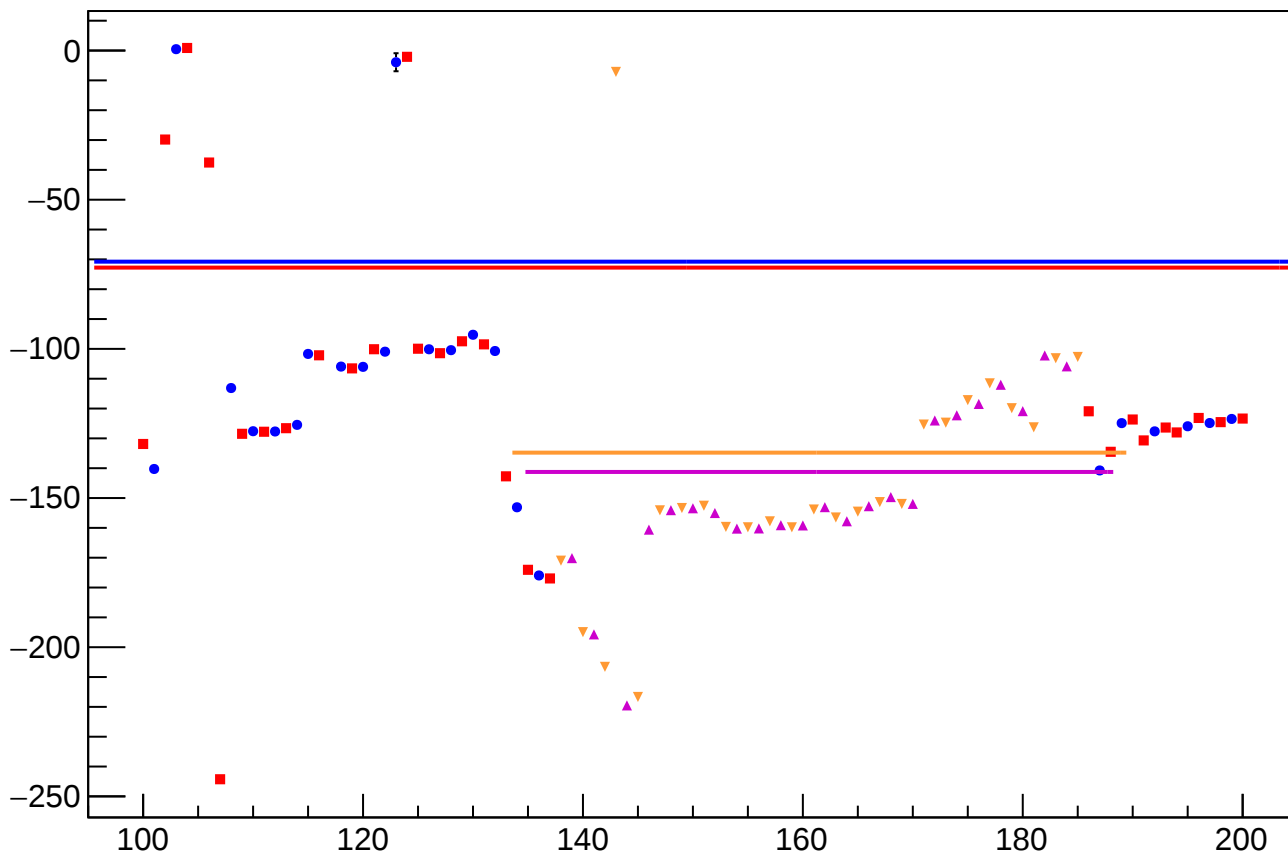
Right: 33.826 $\pm$ 0.832 χ^2 /NDF: 1375.5/50

In: 52.691 $\pm$ 0.760 χ^2 /NDF: 1430.3/45

Out: 47.880 $\pm$ 0.727 χ^2 /NDF: 1733.8/52

All: 50.179 $\pm$ 0.525 χ^2 /NDF: 3185.1/98

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -70.765+/-0.056 χ^2/NDF : 1333590.1/22

Left Out: -134.780+/-0.045 χ^2/NDF : 804747.3/24

Right Out: -72.756+/-0.052 χ^2/NDF : 1358656.8/27

Left In: -141.255+/-0.045 χ^2/NDF : 347229.8/22

Left: -137.961+/-0.032 χ^2/NDF : 1162377.9/47

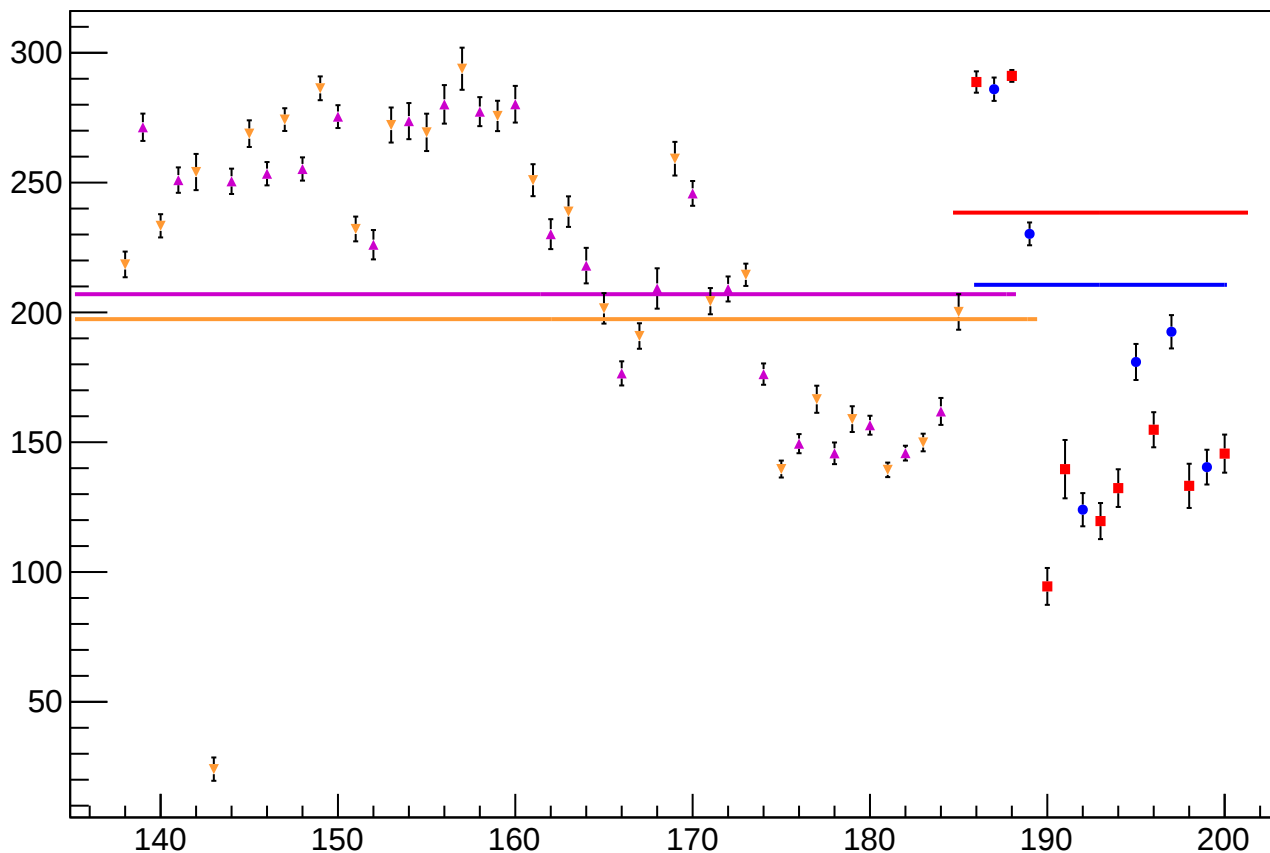
Right: -71.824+/-0.038 χ^2/NDF : 2692928.1/50

In: -113.157+/-0.035 χ^2/NDF : 2646388.4/45

Out: -108.685+/-0.034 χ^2/NDF : 2980628.0/52

All: -110.840+/-0.024 χ^2/NDF : 5635418.0/98

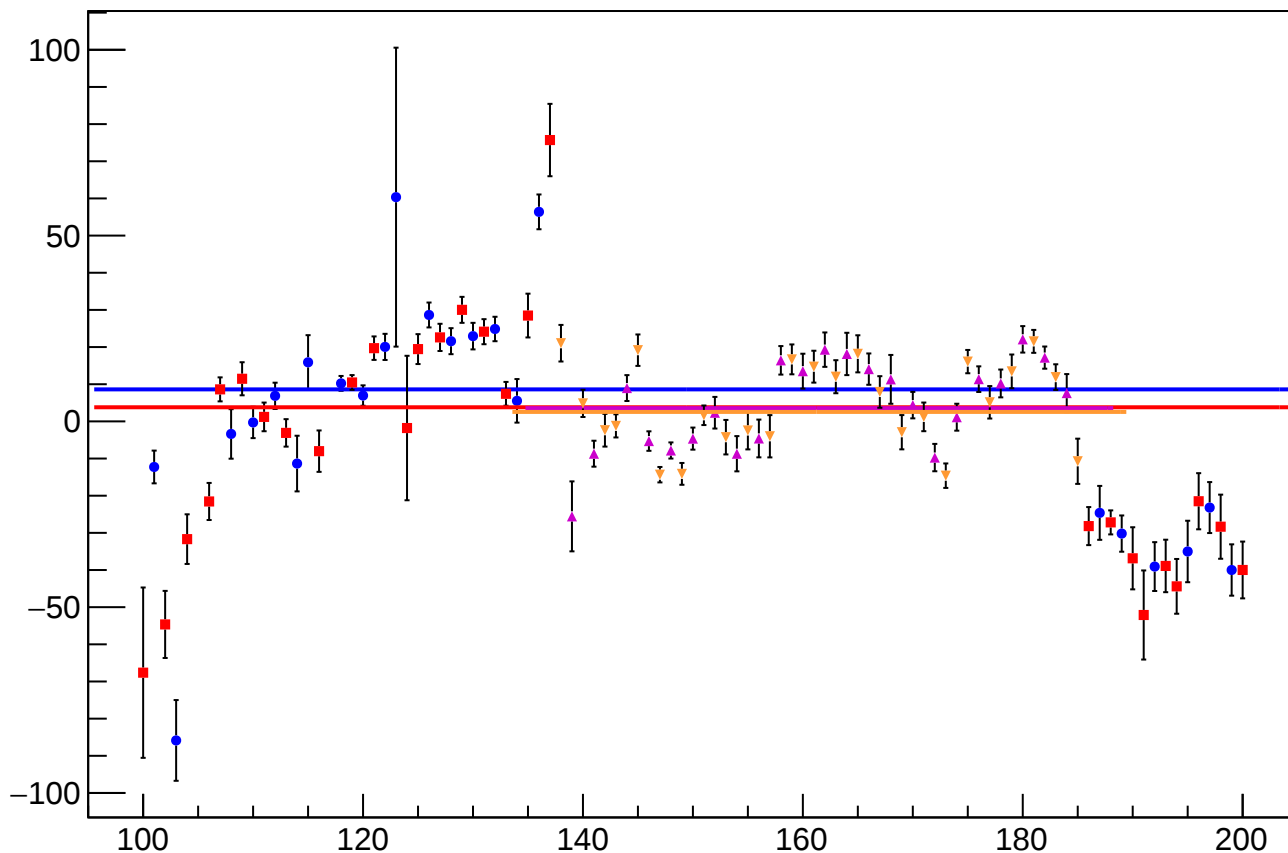
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 210.630 ± 2.277 $\chi^2/\text{NDF}: 620.1/5$
 Left Out: 197.408 ± 0.963 $\chi^2/\text{NDF}: 4384.2/24$
 Right Out: 238.435 ± 1.637 $\chi^2/\text{NDF}: 2143.6/8$
 Left In: 207.014 ± 0.990 $\chi^2/\text{NDF}: 2611.5/22$

Left: 202.077 ± 0.690 $\chi^2/\text{NDF}: 7044.1/47$
 Right: 228.962 ± 1.329 $\chi^2/\text{NDF}: 2862.0/14$
 In: 207.590 ± 0.908 $\chi^2/\text{NDF}: 3233.7/28$
 Out: 207.958 ± 0.830 $\chi^2/\text{NDF}: 6994.6/33$
 All: 207.790 ± 0.613 $\chi^2/\text{NDF}: 10228.5/62$

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.611 ± 0.885 χ^2/NDF : 557.6/22

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: 3.797 ± 0.834 χ^2/NDF : 677.0/27

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

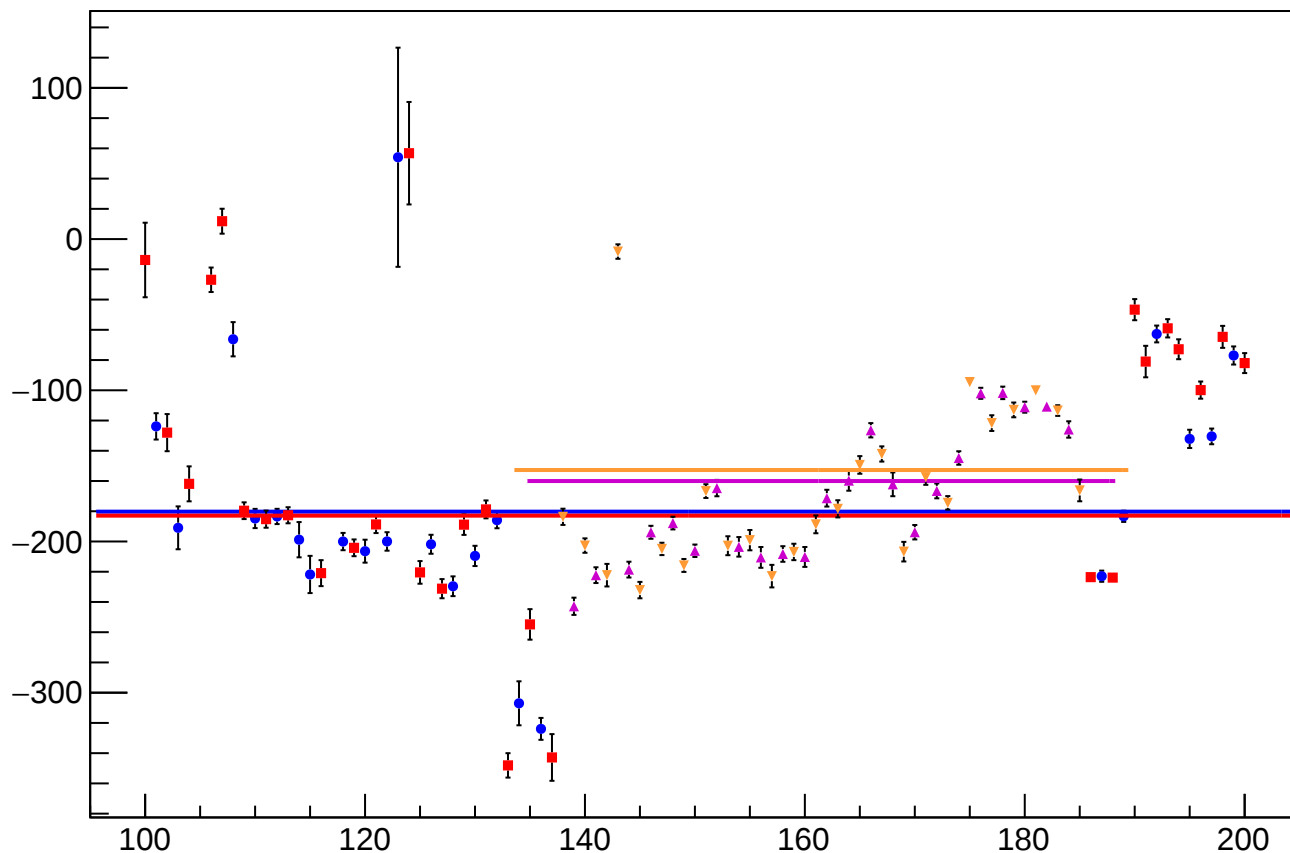
Right: 6.062 ± 0.607 χ^2/NDF : 1250.3/50

In: 5.749 ± 0.583 χ^2/NDF : 768.0/45

Out: 3.098 ± 0.554 χ^2/NDF : 953.7/52

All: 4.357 ± 0.401 χ^2/NDF : 1732.6/98

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -180.264 ± 1.314 $\chi^2/\text{NDF}: 1795.1/22$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -182.910 ± 1.062 $\chi^2/\text{NDF}: 4286.5/27$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

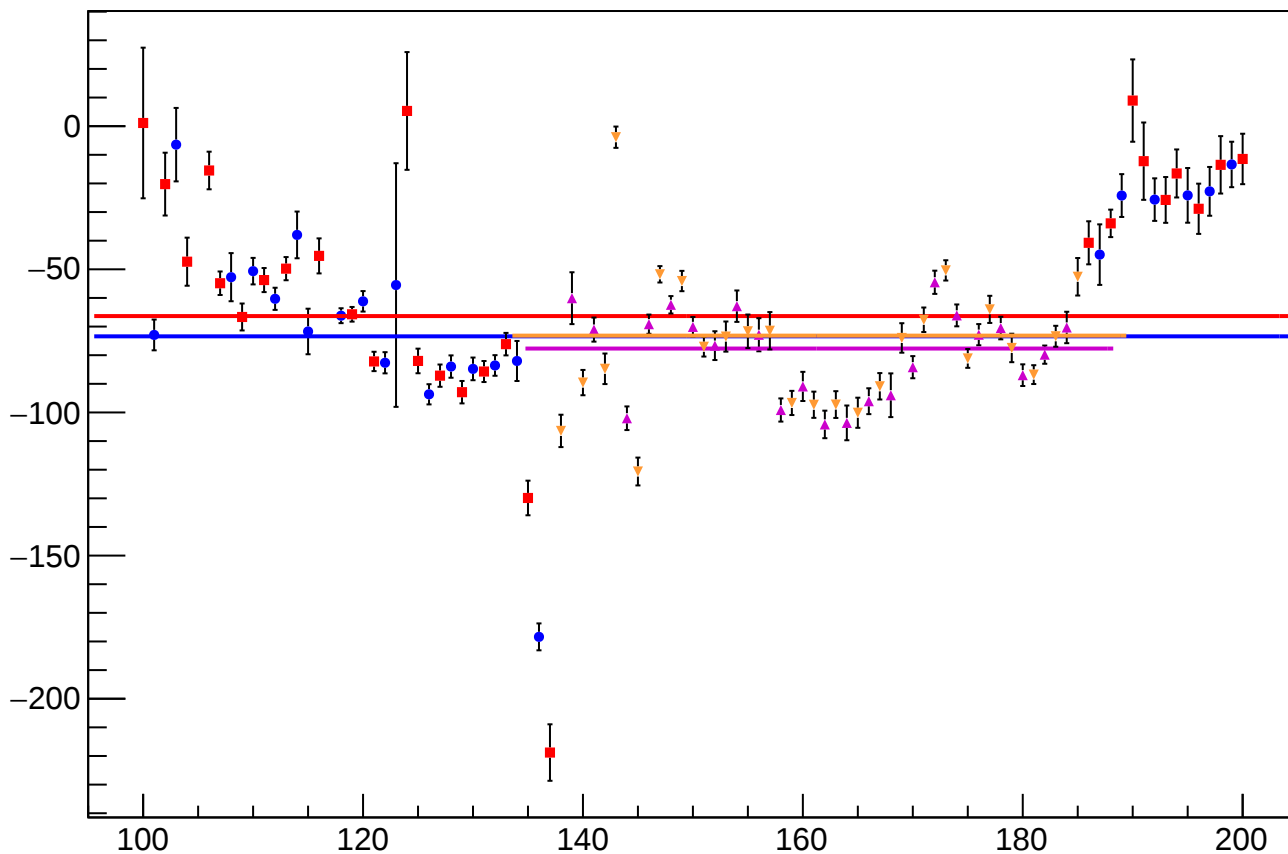
Right: -181.865 ± 0.826 $\chi^2/\text{NDF}: 6084.1/50$

In: -167.338 ± 0.790 $\chi^2/\text{NDF}: 3971.0/45$

Out: -166.417 ± 0.715 $\chi^2/\text{NDF}: 7805.8/52$

All: -166.832 ± 0.530 $\chi^2/\text{NDF}: 11777.5/98$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -73.414 ± 1.033 $\chi^2/\text{NDF}: 881.4/22$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -66.335 ± 0.982 $\chi^2/\text{NDF}: 886.4/27$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

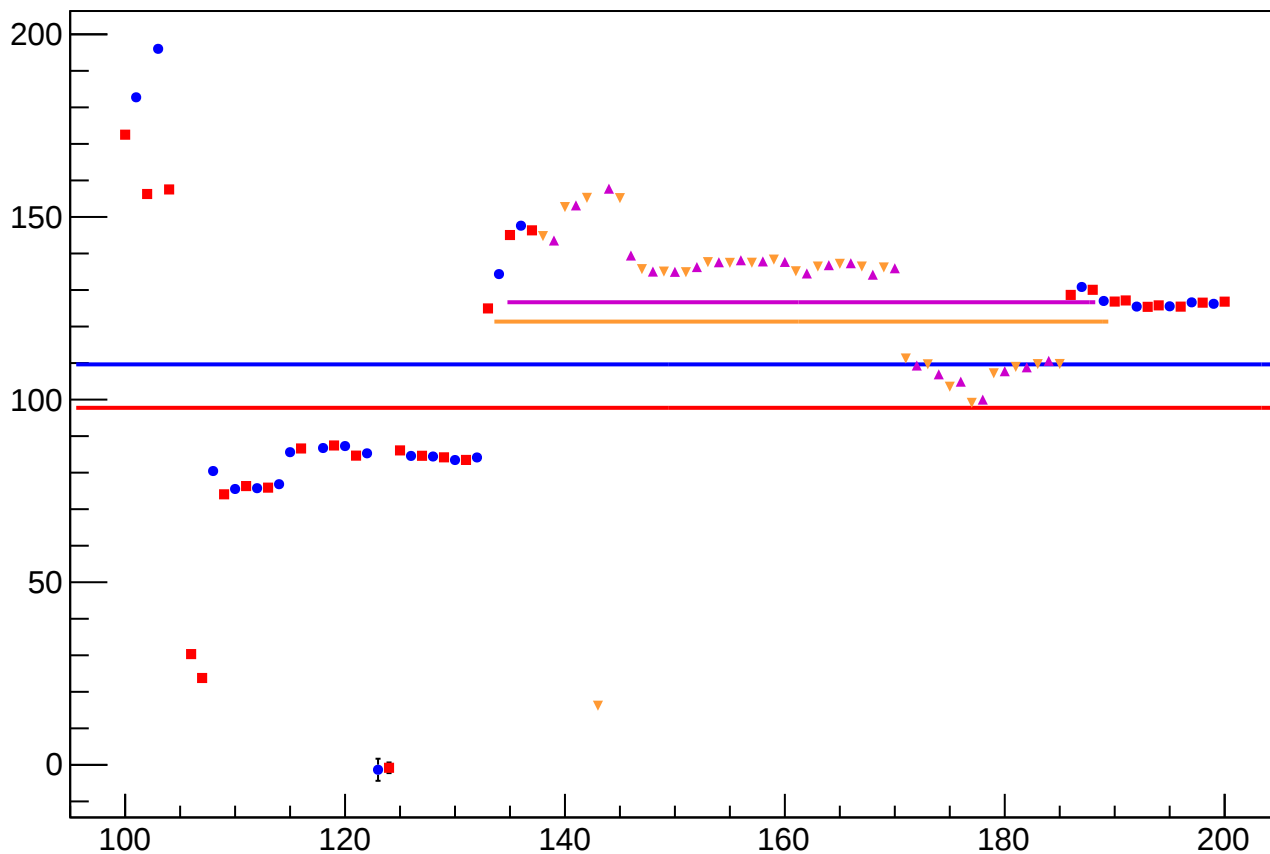
Right: -69.693 ± 0.712 $\chi^2/\text{NDF}: 1792.5/50$

In: -75.878 ± 0.671 $\chi^2/\text{NDF}: 1139.5/45$

Out: -70.233 ± 0.643 $\chi^2/\text{NDF}: 1702.7/52$

All: -72.935 ± 0.464 $\chi^2/\text{NDF}: 2879.0/98$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 109.641 $\pm$ 0.061 χ^2 /NDF: 300249.9/22

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 97.749 $\pm$ 0.053 χ^2 /NDF: 553131.0/27

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

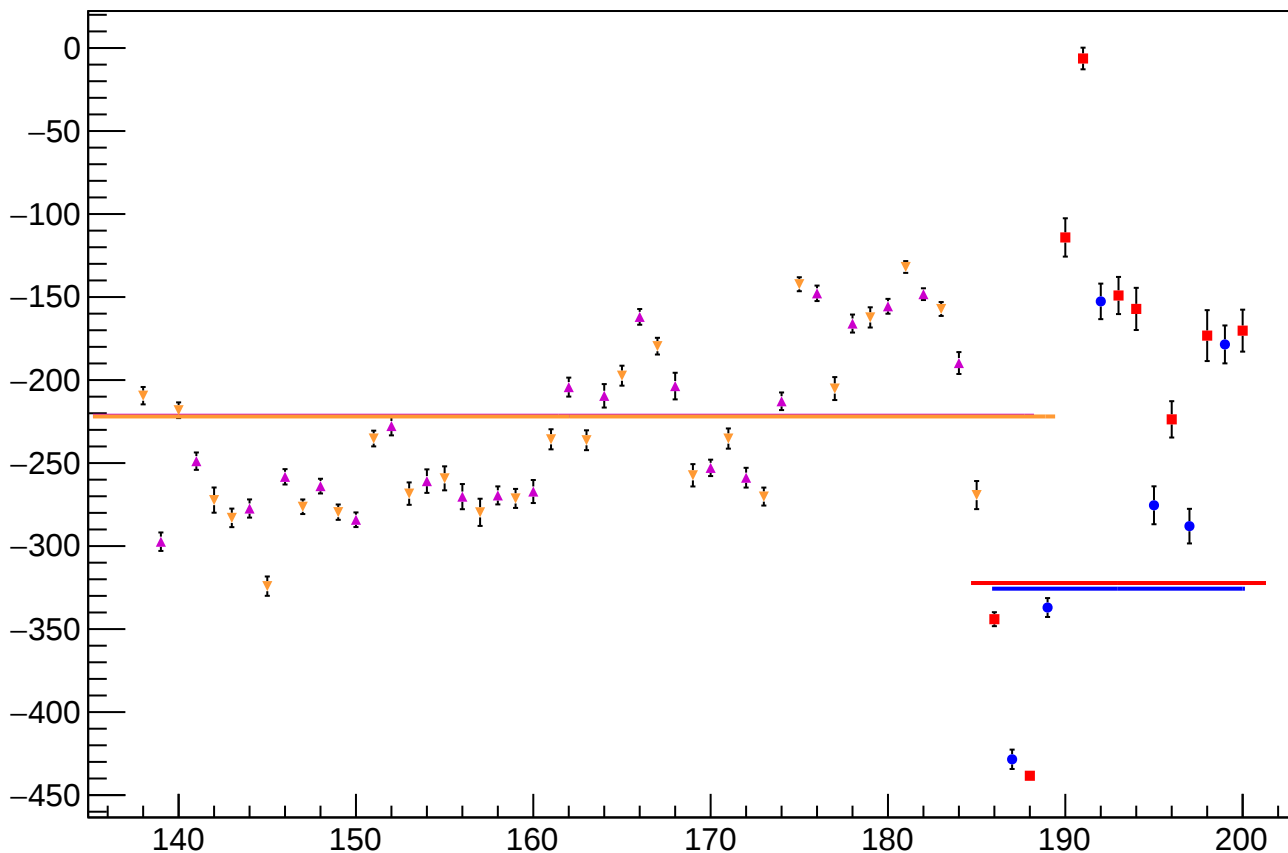
Right: 102.922 $\pm$ 0.040 χ^2 /NDF: 875069.7/50

In: 121.308 $\pm$ 0.034 χ^2 /NDF: 517182.8/45

Out: 112.759 $\pm$ 0.032 χ^2 /NDF: 1160040.7/52

All: 116.791 $\pm$ 0.023 χ^2 /NDF: 1710597.6/98

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -325.665 ± 3.270 χ^2/NDF : 774.5/5

Left Out: -221.934 ± 1.084 χ^2/NDF : 2578.4/24

Right Out: -322.247 ± 2.089 χ^2/NDF : 4892.3/8

Left In: -221.483 ± 1.102 χ^2/NDF : 2149.8/22

Left: -221.712 ± 0.773 χ^2/NDF : 4728.2/47

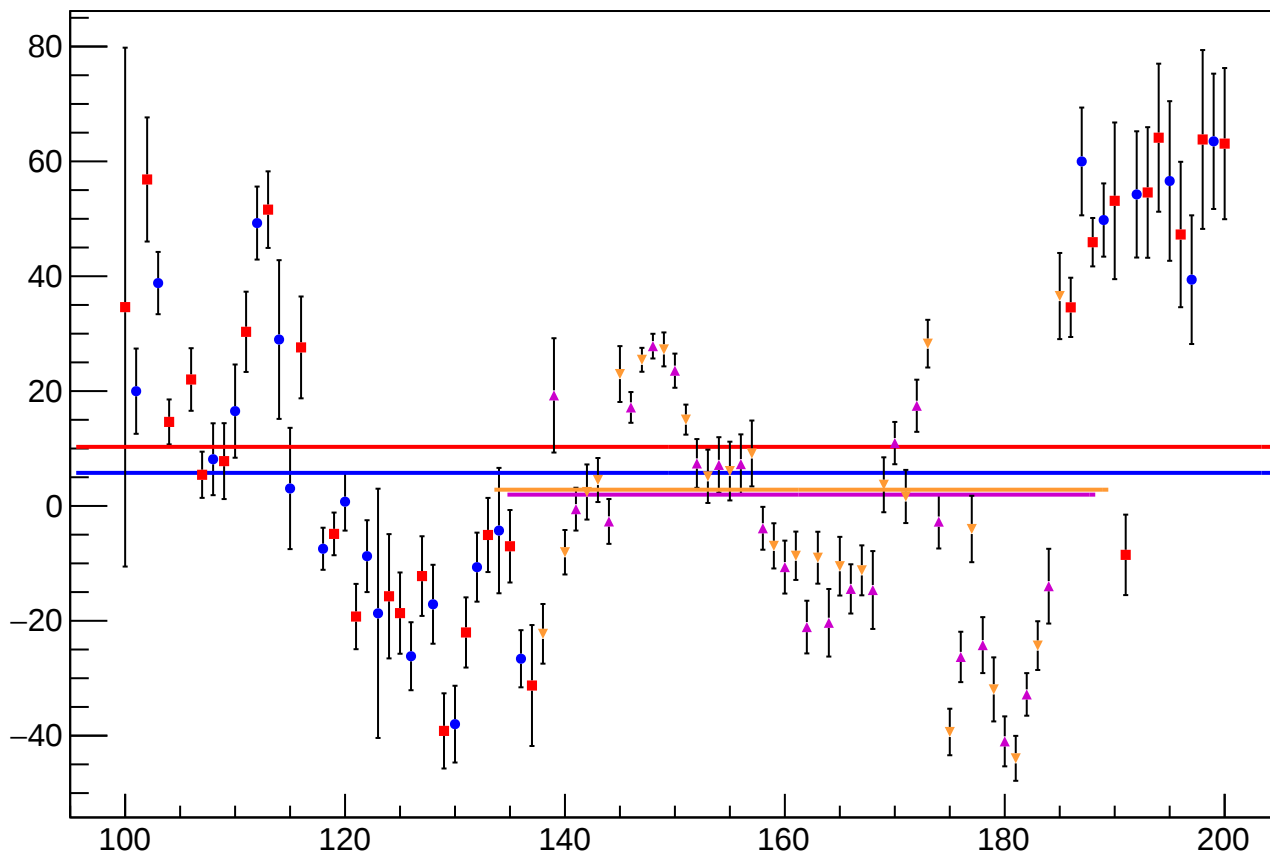
Right: -323.238 ± 1.761 χ^2/NDF : 5667.6/14

In: -232.112 ± 1.044 χ^2/NDF : 3835.7/28

Out: -243.222 ± 0.963 χ^2/NDF : 9286.6/33

All: -238.120 ± 0.708 χ^2/NDF : 13183.5/62

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.761 ± 1.434 $\chi^2/\text{NDF}: 393.7/22$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 10.289 ± 1.232 $\chi^2/\text{NDF}: 447.0/27$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

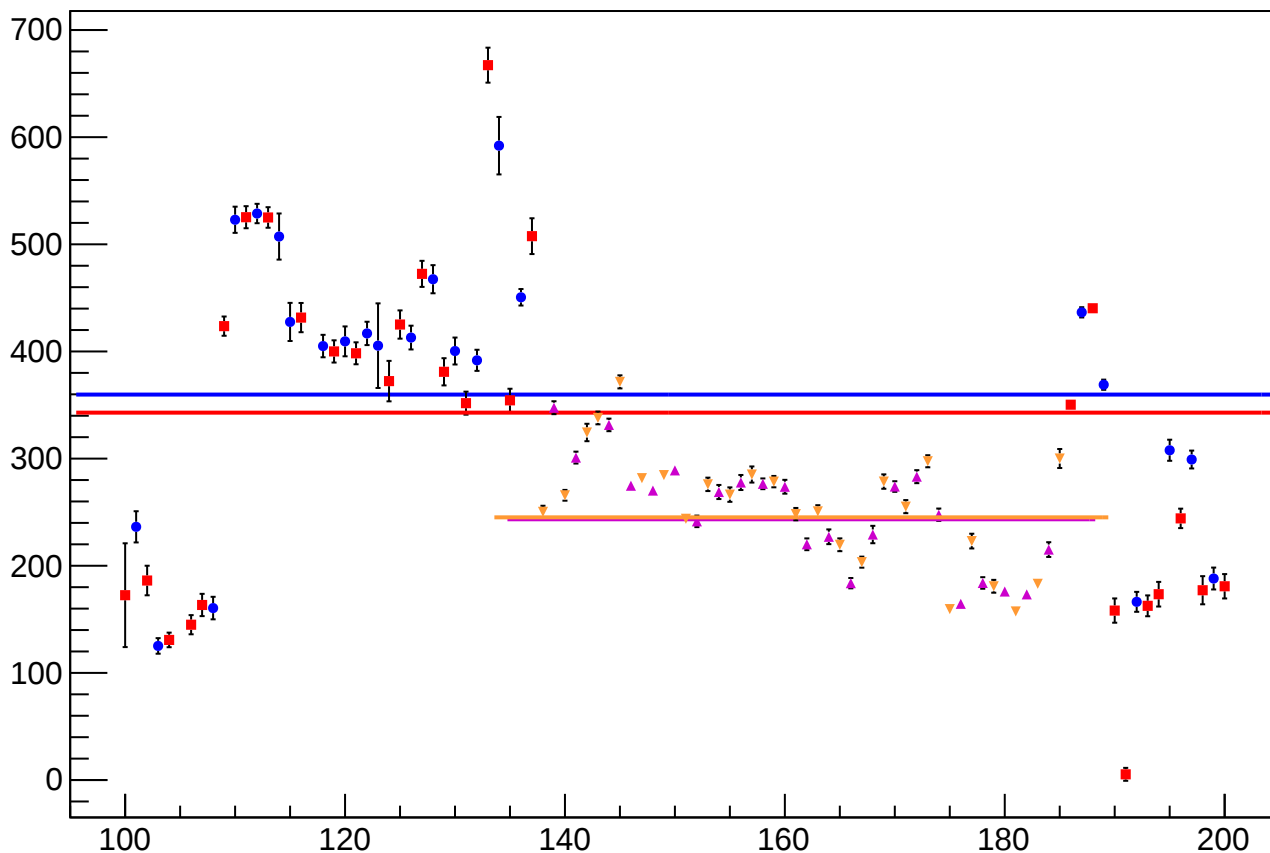
Right: 8.366 ± 0.934 $\chi^2/\text{NDF}: 846.4/50$

In: 2.929 ± 0.721 $\chi^2/\text{NDF}: 988.0/45$

Out: 5.071 ± 0.675 $\chi^2/\text{NDF}: 1159.5/52$

All: 4.071 ± 0.493 $\chi^2/\text{NDF}: 2152.2/98$

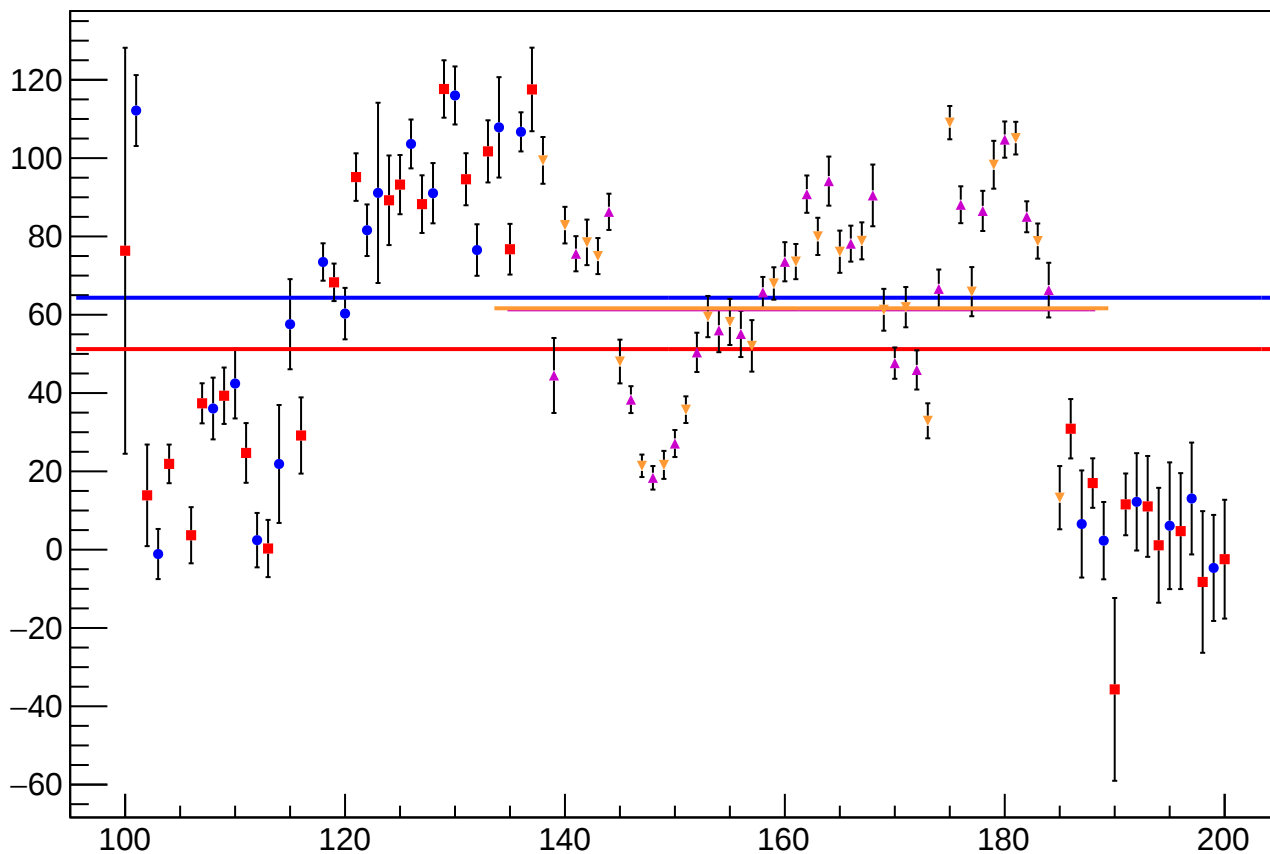
reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 359.763 $\pm$ 1.951 χ^2 /NDF: 3504.5/22
 Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24
 Right Out: 342.899 $\pm$ 1.432 χ^2 /NDF: 9447.8/27
 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: 348.803 $\pm$ 1.154 χ^2 /NDF: 13000.9/50
 In: 271.202 $\pm$ 0.954 χ^2 /NDF:8450.2/45
 Out: 280.702 $\pm$ 0.863 χ^2 /NDF:15010.2/52
 All: 276.425 $\pm$ 0.640 χ^2 /NDF: 23514.9/98

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 64.345 $\pm$ 1.676 χ^2 /NDF: 565.0/22

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF: 871.5/24

Right Out: 51.226 $\pm$ 1.478 χ^2 /NDF: 645.3/27

Left In: 61.375 $\pm$ 0.961 χ^2 /NDF: 699.7/22

Left: 61.515 $\pm$ 0.671 χ^2 /NDF: 1571.3/47

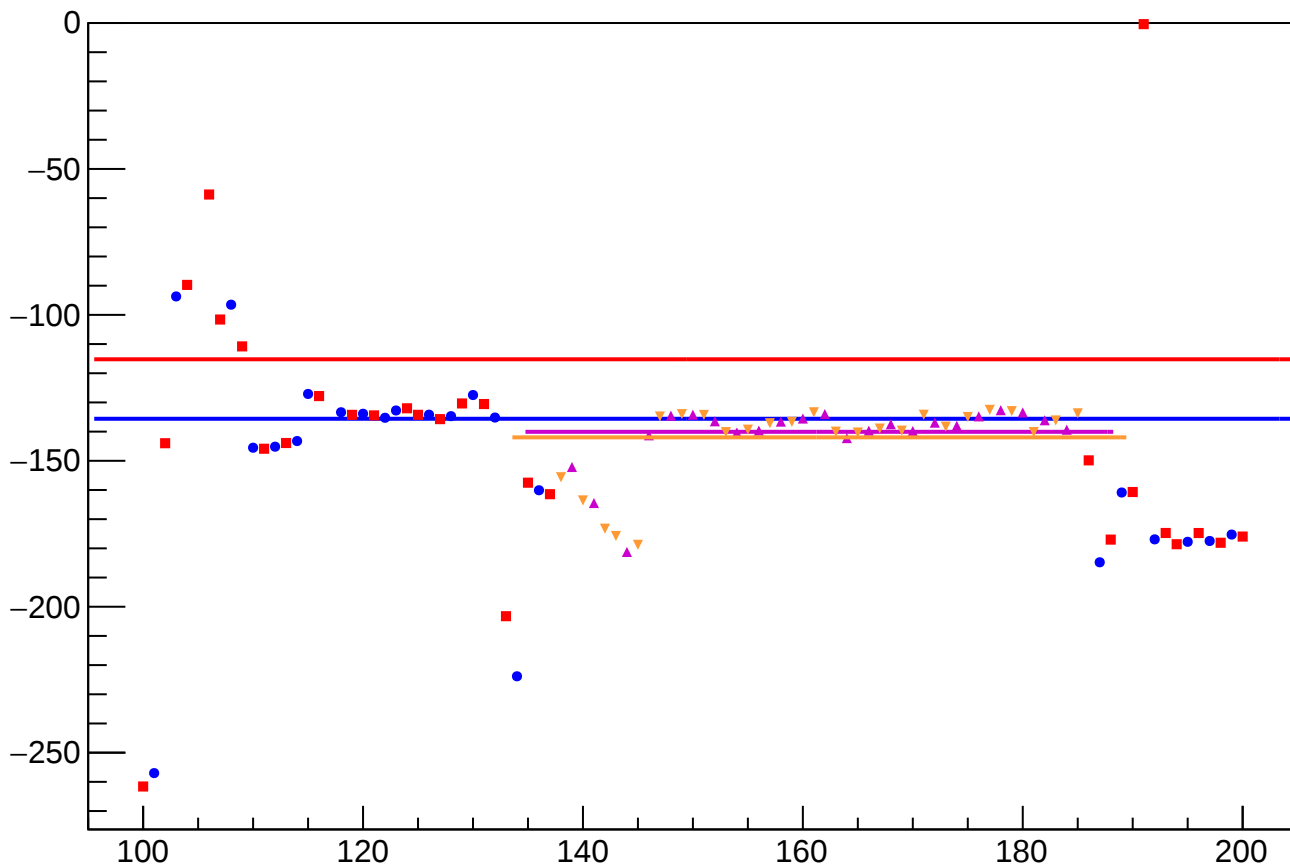
Right: 56.966 $\pm$ 1.108 χ^2 /NDF: 1244.8/50

In: 62.110 $\pm$ 0.834 χ^2 /NDF: 1267.1/45

Out: 58.663 $\pm$ 0.791 χ^2 /NDF: 1552.3/52

All: 60.296 $\pm$ 0.574 χ^2 /NDF: 2828.4/98

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -135.598 ± 0.081 χ^2/NDF : 218566.9/22

Left Out: -141.969 ± 0.045 χ^2/NDF : 80252.6/24

Right Out: -115.218 ± 0.070 χ^2/NDF : 586281.3/27

Left In: -140.068 ± 0.045 χ^2/NDF : 48030.7/22

Left: -141.025 ± 0.032 χ^2/NDF : 129181.1/47

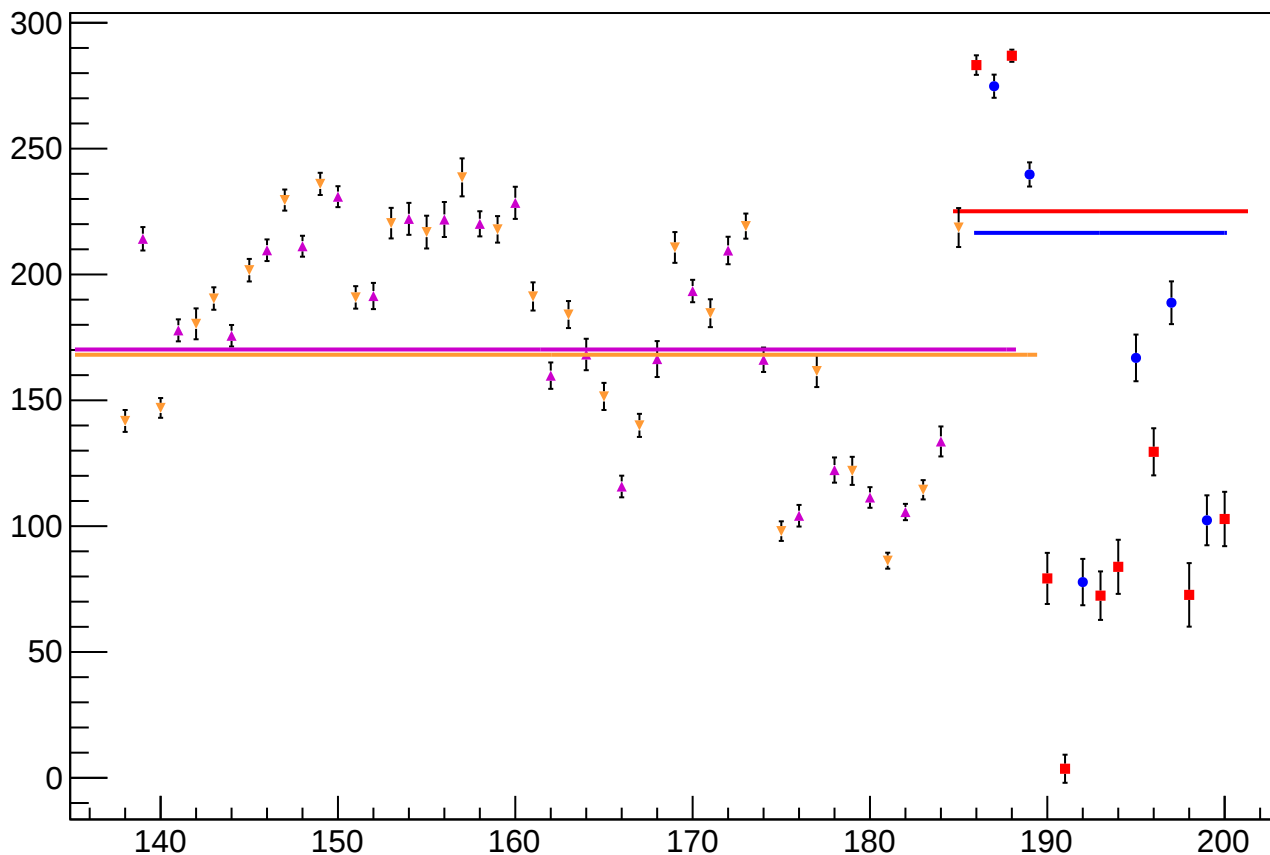
Right: -123.840 ± 0.053 χ^2/NDF : 841042.6/50

In: -139.021 ± 0.039 χ^2/NDF : 268909.4/45

Out: -134.169 ± 0.038 χ^2/NDF : 770957.9/52

All: -136.484 ± 0.027 χ^2/NDF : 1047803.1/98

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 216.536 $\pm$ 2.691 χ^2 /NDF: 582.6/5

Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24

Right Out: 225.115 $\pm$ 1.752 χ^2 /NDF: 3462.7/8

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

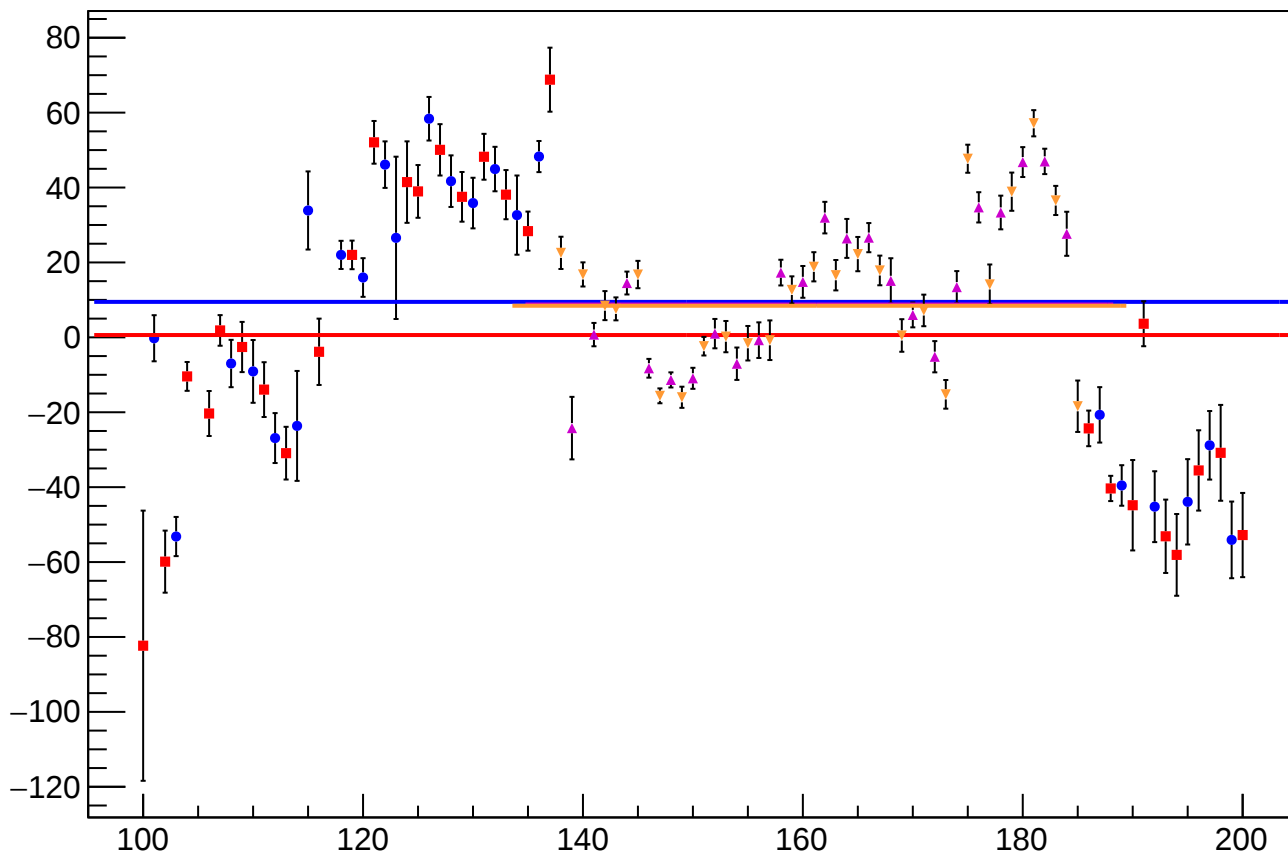
Right: 222.562 $\pm$ 1.468 χ^2 /NDF: 4052.4/14

In: 175.774 $\pm$ 0.934 χ^2 /NDF:2867.9/28

Out: 181.486 $\pm$ 0.849 χ^2 /NDF:6741.8/33

All: 178.901 $\pm$ 0.628 χ^2 /NDF: 9630.1/62

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.471 ± 1.367 χ^2/NDF : 691.5/22

Left Out: 8.436 ± 0.728 χ^2/NDF : 752.0/24

Right Out: 0.617 ± 1.174 χ^2/NDF : 816.8/27

Left In: 8.769 ± 0.758 χ^2/NDF : 626.8/22

Left: 8.596 ± 0.525 χ^2/NDF : 1379.0/47

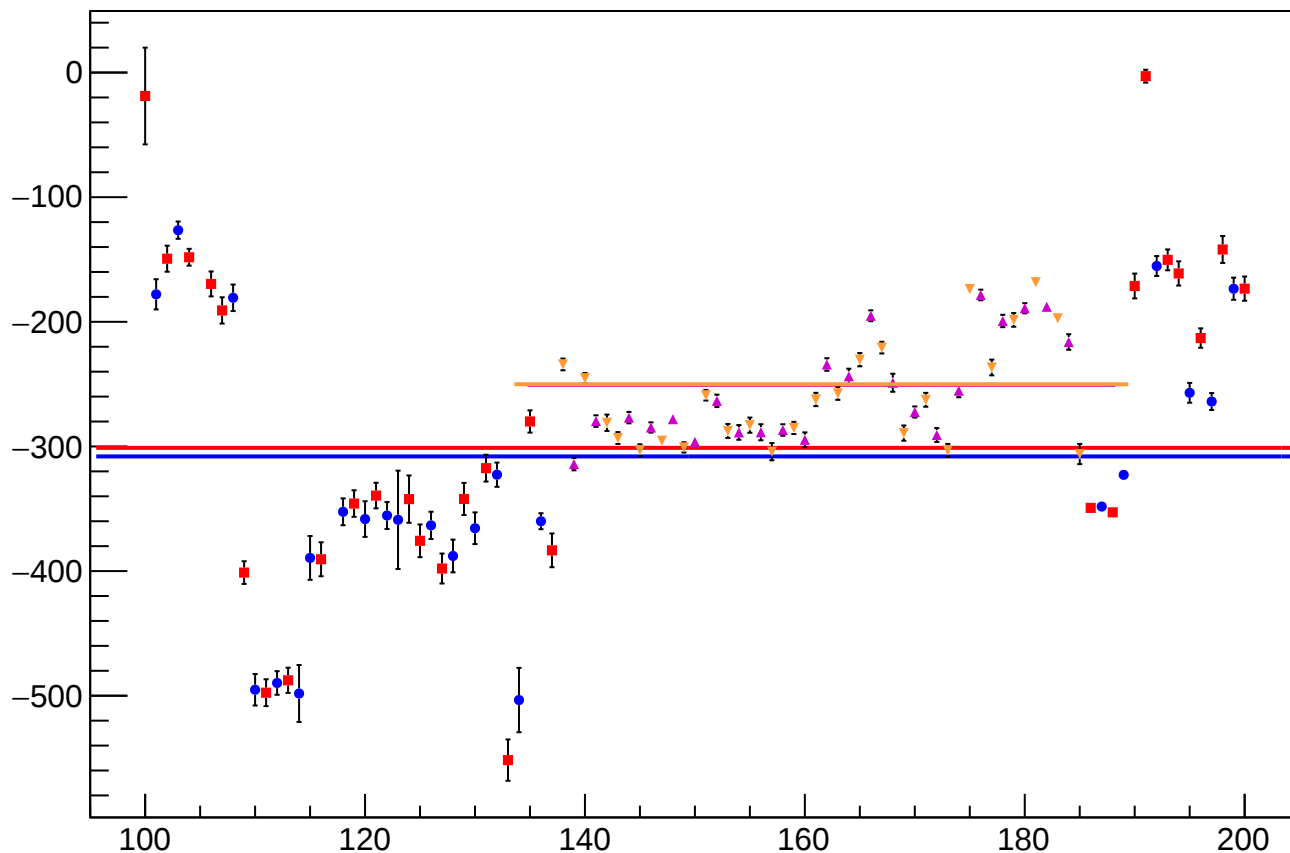
Right: 4.378 ± 0.891 χ^2/NDF : 1532.5/50

In: 8.934 ± 0.663 χ^2/NDF : 1318.5/45

Out: 6.265 ± 0.619 χ^2/NDF : 1600.9/52

All: 7.508 ± 0.452 χ^2/NDF : 2928.1/98

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -307.995 ± 1.721 χ^2/NDF : 2683.6/22

Left Out: -250.119 ± 0.972 χ^2/NDF : 2246.9/24

Right Out: -301.115 ± 1.254 χ^2/NDF : 7813.3/27

Left In: -250.628 ± 0.990 χ^2/NDF : 1937.1/22

Left: -250.369 ± 0.694 χ^2/NDF : 4184.2/47

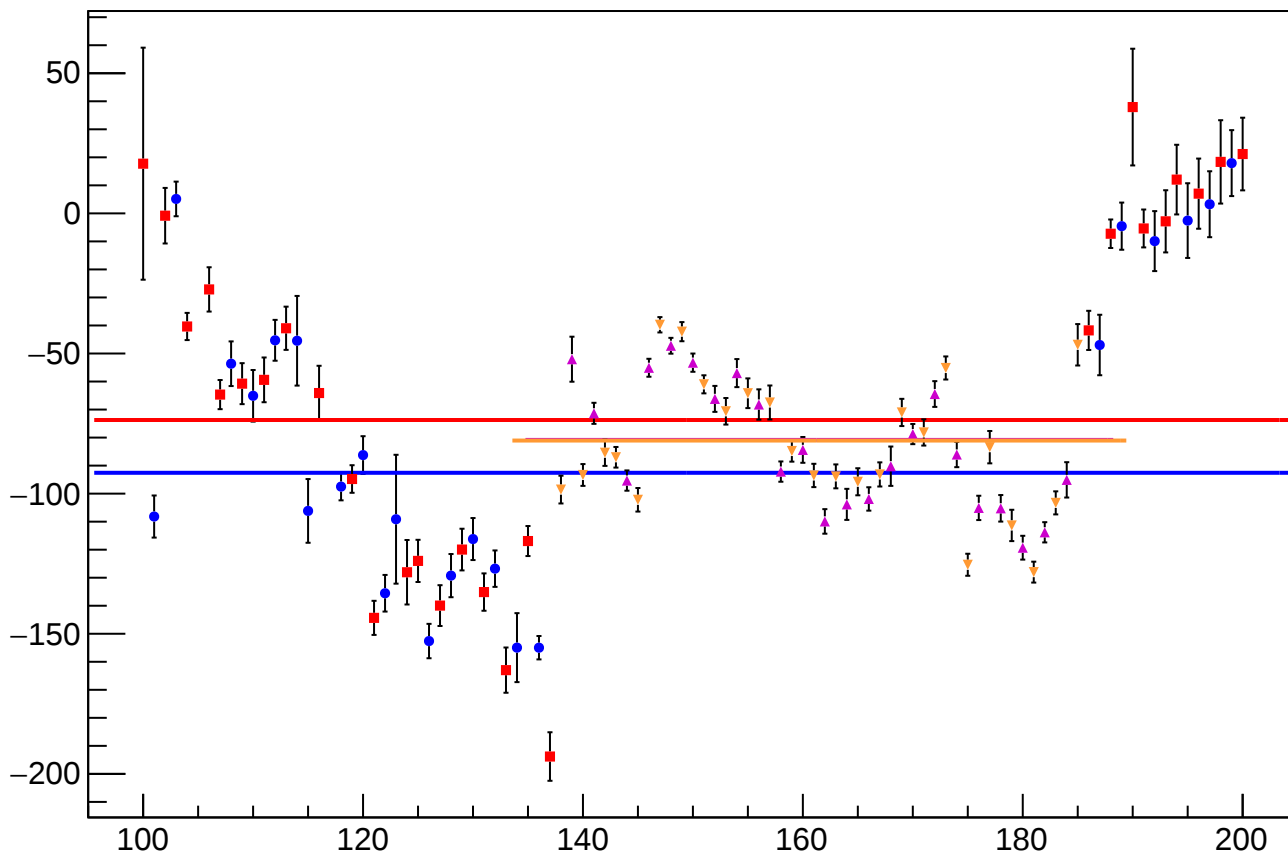
Right: -303.502 ± 1.013 χ^2/NDF : 10507.3/50

In: -264.902 ± 0.858 χ^2/NDF : 5455.5/45

Out: -269.267 ± 0.768 χ^2/NDF : 11093.1/52

All: -267.325 ± 0.573 χ^2/NDF : 16563.0/98

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -92.563 ± 1.599 $\chi^2/\text{NDF}: 1177.6/22$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -73.727 ± 1.415 $\chi^2/\text{NDF}: 1520.1/27$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

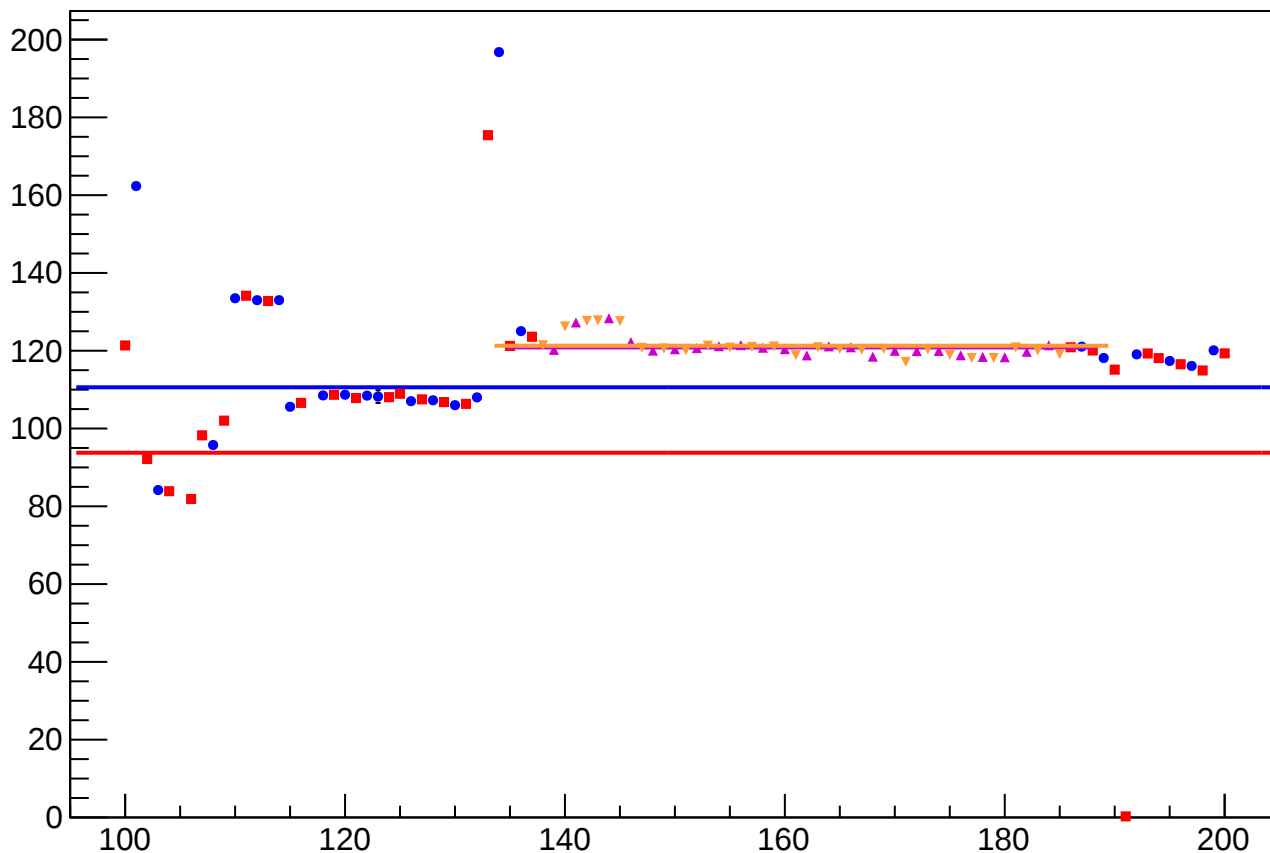
Right: -82.002 ± 1.060 $\chi^2/\text{NDF}: 2775.5/50$

In: -83.522 ± 0.765 $\chi^2/\text{NDF}: 1912.2/45$

Out: -79.137 ± 0.724 $\chi^2/\text{NDF}: 2452.9/52$

All: -81.209 ± 0.526 $\chi^2/\text{NDF}: 4382.4/98$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 110.604 $\pm$ 0.075 χ^2 /NDF: 76361.8/22

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 93.770 $\pm$ 0.064 χ^2 /NDF: 353416.5/27

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

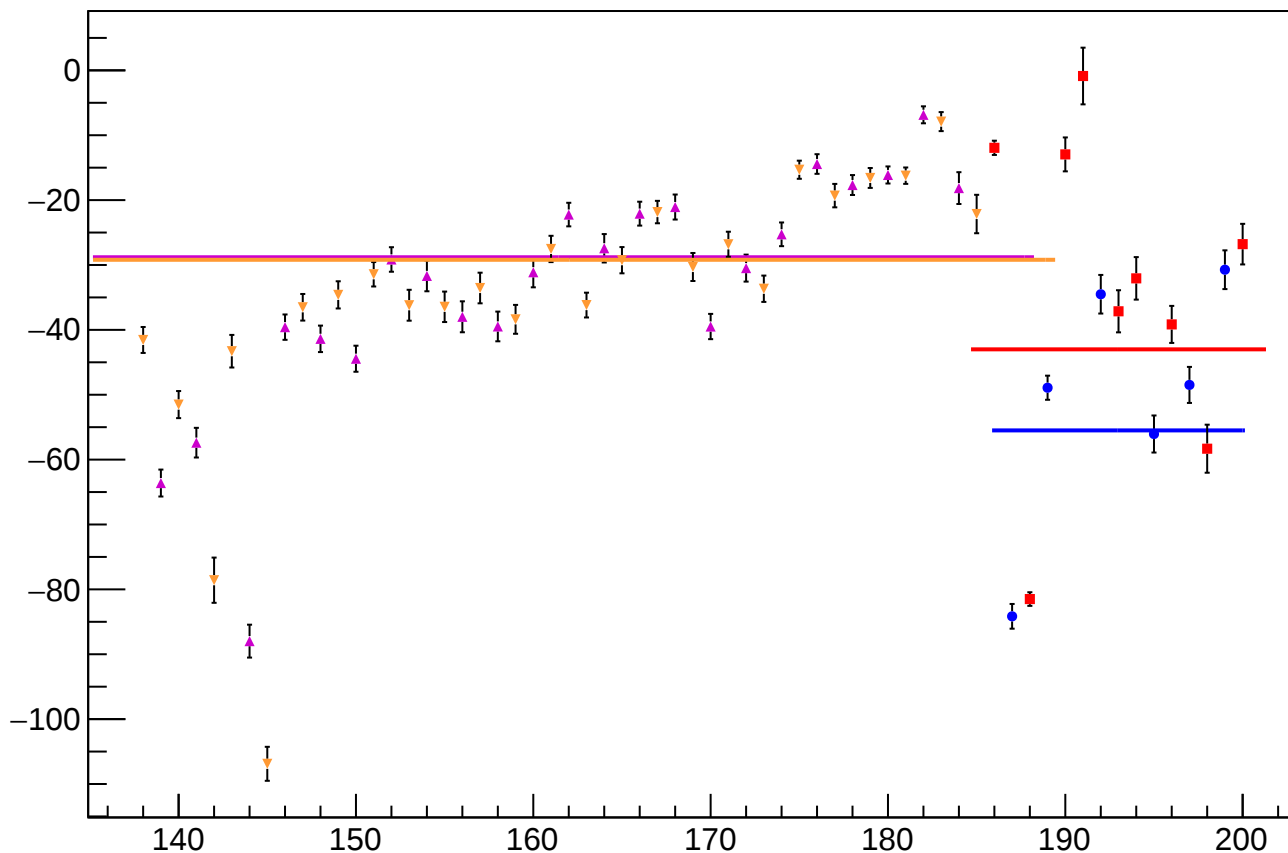
Right: 100.856 $\pm$ 0.049 χ^2 /NDF: 458568.7/50

In: 118.538 $\pm$ 0.036 χ^2 /NDF: 93982.6/45

Out: 113.590 $\pm$ 0.034 χ^2 /NDF: 489970.0/52

All: 115.938 $\pm$ 0.025 χ^2 /NDF: 593979.8/98

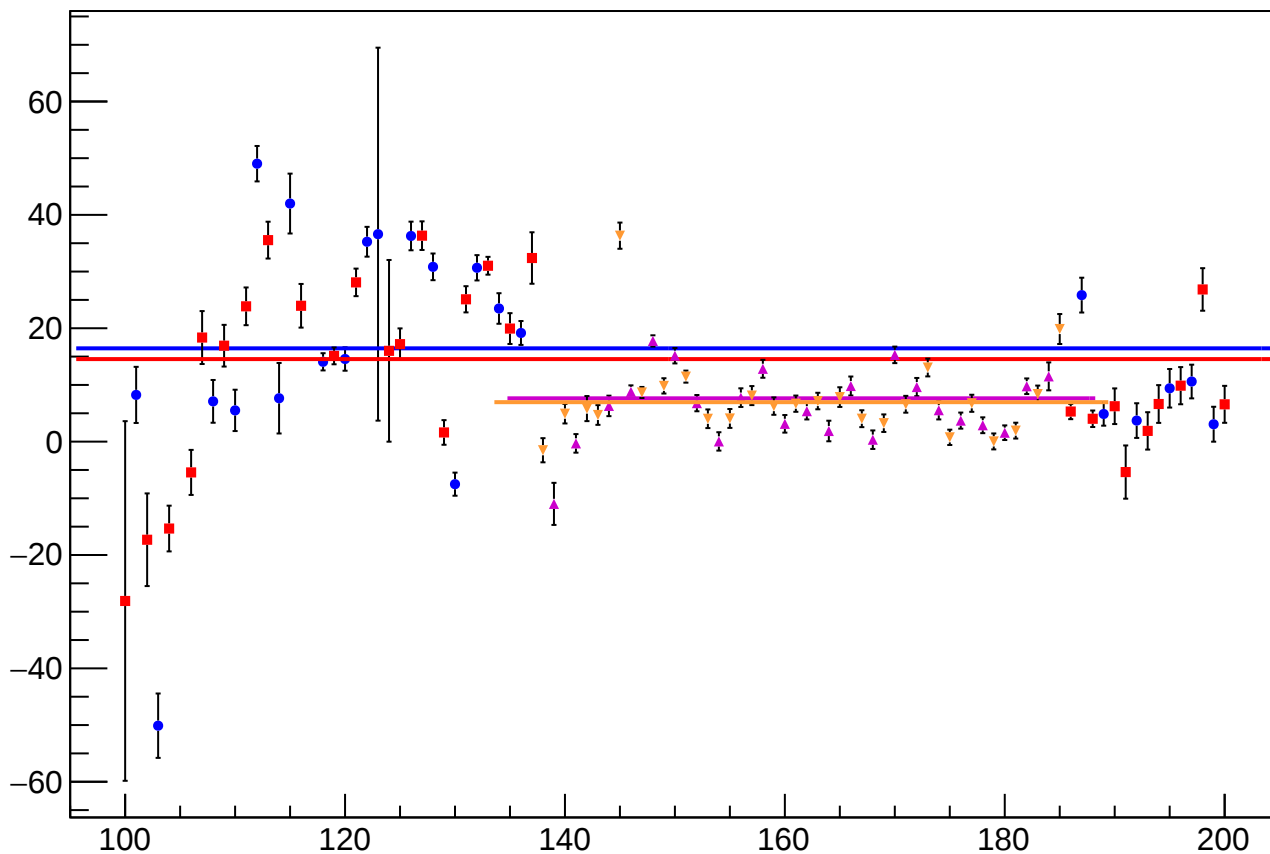
reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -55.498 ± 0.980 $\chi^2/\text{NDF}: 363.6/5$
 Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$
 Right Out: -43.003 ± 0.643 $\chi^2/\text{NDF}: 2431.2/8$
 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: -46.761 ± 0.537 $\chi^2/\text{NDF}: 2908.5/14$
 In: -32.546 ± 0.367 $\chi^2/\text{NDF}: 2765.5/28$
 Out: -32.895 ± 0.332 $\chi^2/\text{NDF}: 4650.7/33$
 All: -32.738 ± 0.246 $\chi^2/\text{NDF}: 7416.7/62$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.455 ± 0.569 χ^2/NDF : 715.7/22

Left Out: 6.960 ± 0.303 χ^2/NDF : 321.3/24

Right Out: 14.559 ± 0.498 χ^2/NDF : 609.5/27

Left In: 7.638 ± 0.313 χ^2/NDF : 337.7/22

Left: 7.287 ± 0.218 χ^2/NDF : 661.5/47

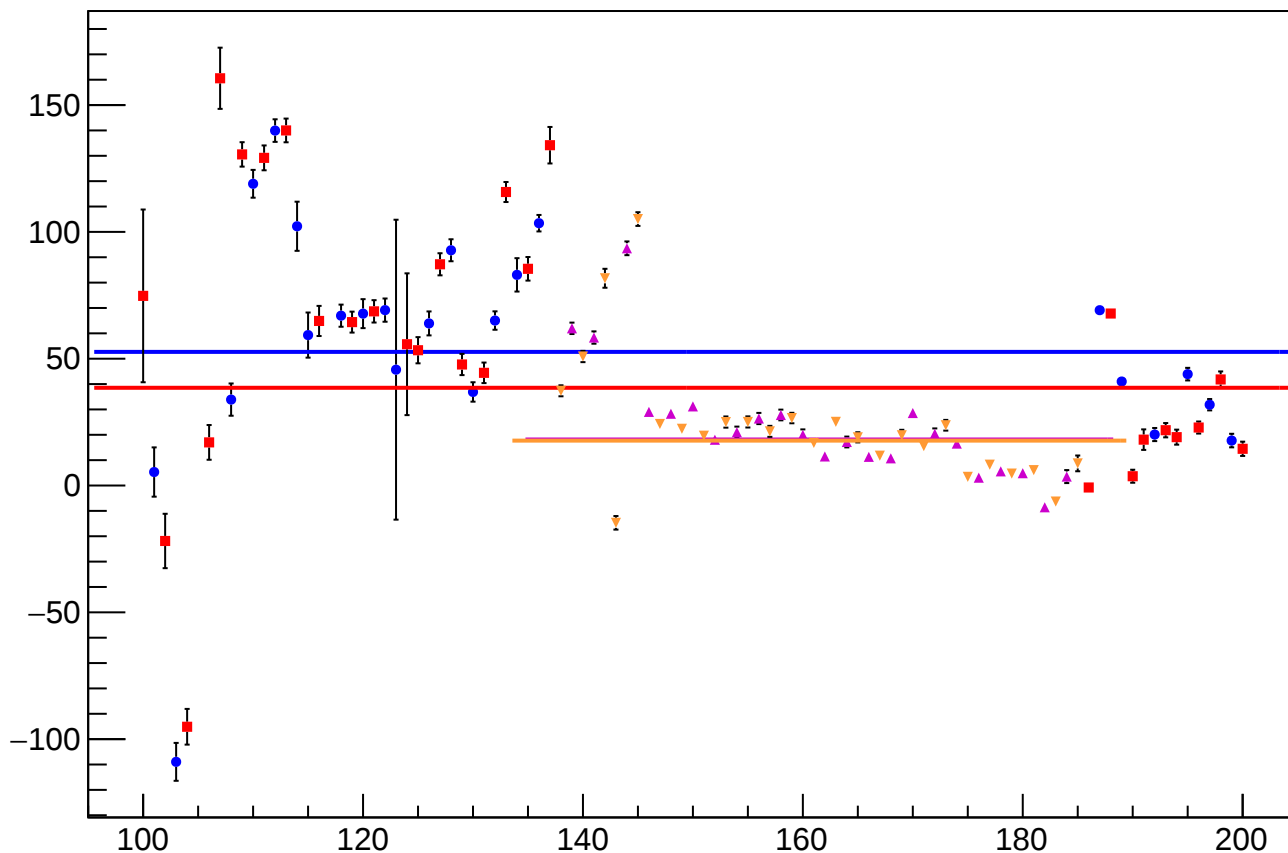
Right: 15.382 ± 0.375 χ^2/NDF : 1331.5/50

In: 9.693 ± 0.275 χ^2/NDF : 1237.7/45

Out: 9.010 ± 0.259 χ^2/NDF : 1100.5/52

All: 9.332 ± 0.188 χ^2/NDF : 2341.5/98

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 52.688 $\pm$ 0.688 χ^2 /NDF: 2068.1/22

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 38.537 $\pm$ 0.487 χ^2 /NDF: 6203.2/27

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

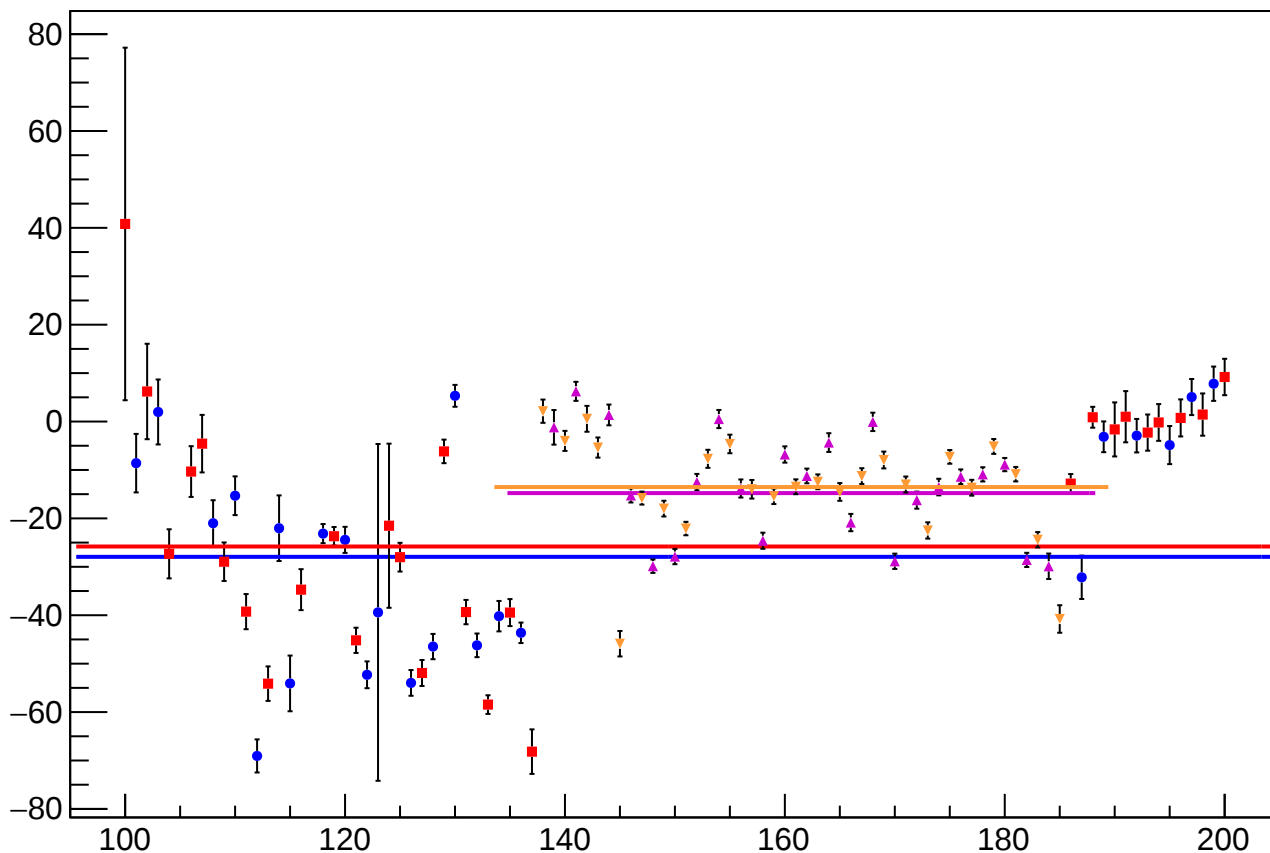
Right: 43.261 $\pm$ 0.397 χ^2 /NDF: 8553.5/50

In: 26.640 $\pm$ 0.341 χ^2 /NDF:6310.2/45

Out: 25.778 $\pm$ 0.303 χ^2 /NDF:9756.9/52

All: 26.158 $\pm$ 0.227 χ^2 /NDF: 16070.7/98

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -27.941 ± 0.667 $\chi^2/\text{NDF}: 1111.8/22$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -25.808 ± 0.607 $\chi^2/\text{NDF}: 1259.9/27$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

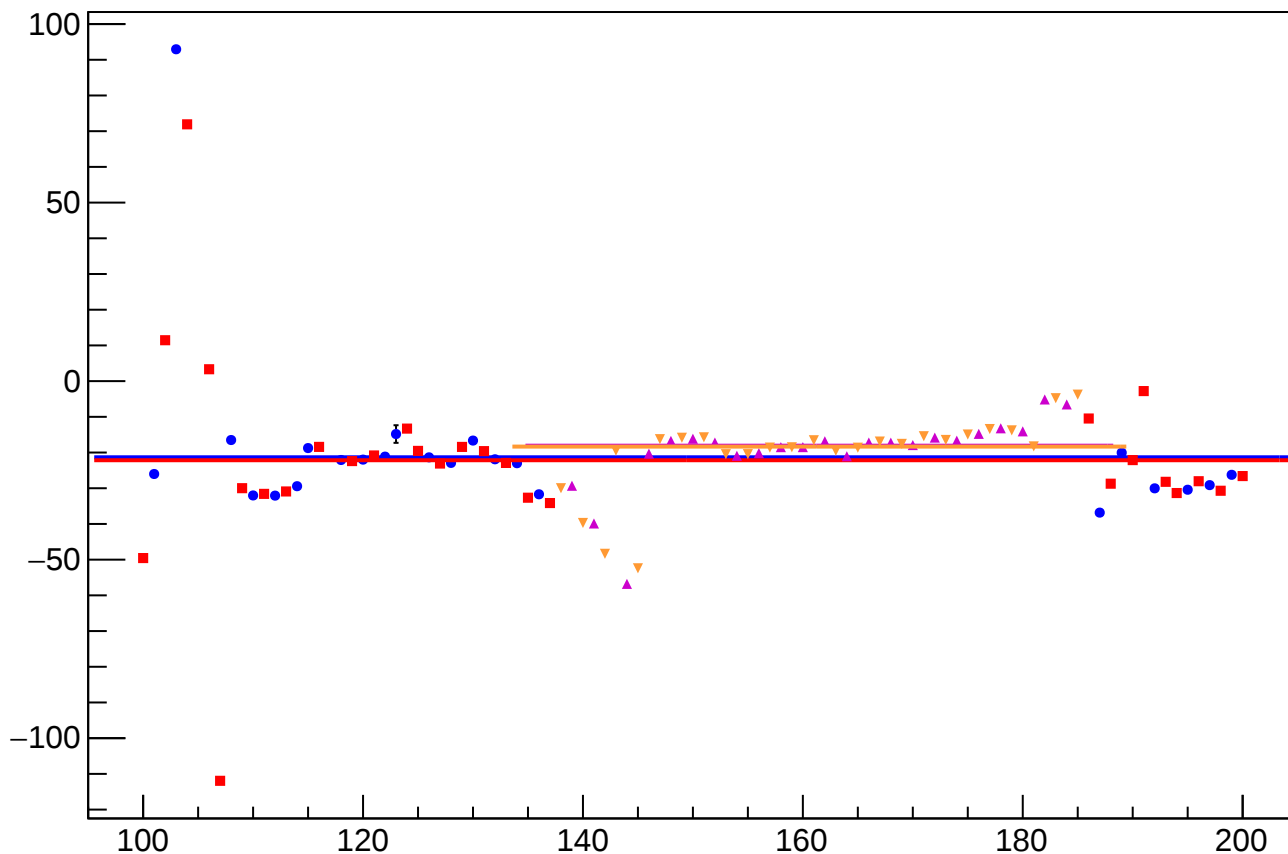
Right: -26.774 ± 0.449 $\chi^2/\text{NDF}: 2377.3/50$

In: -17.669 ± 0.313 $\chi^2/\text{NDF}: 2253.3/45$

Out: -16.513 ± 0.299 $\chi^2/\text{NDF}: 2142.1/52$

All: -17.066 ± 0.216 $\chi^2/\text{NDF}: 4402.5/98$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -21.333 ± 0.034 $\chi^2/\text{NDF}: 508738.1/22$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -22.155 ± 0.030 $\chi^2/\text{NDF}: 485643.1/27$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

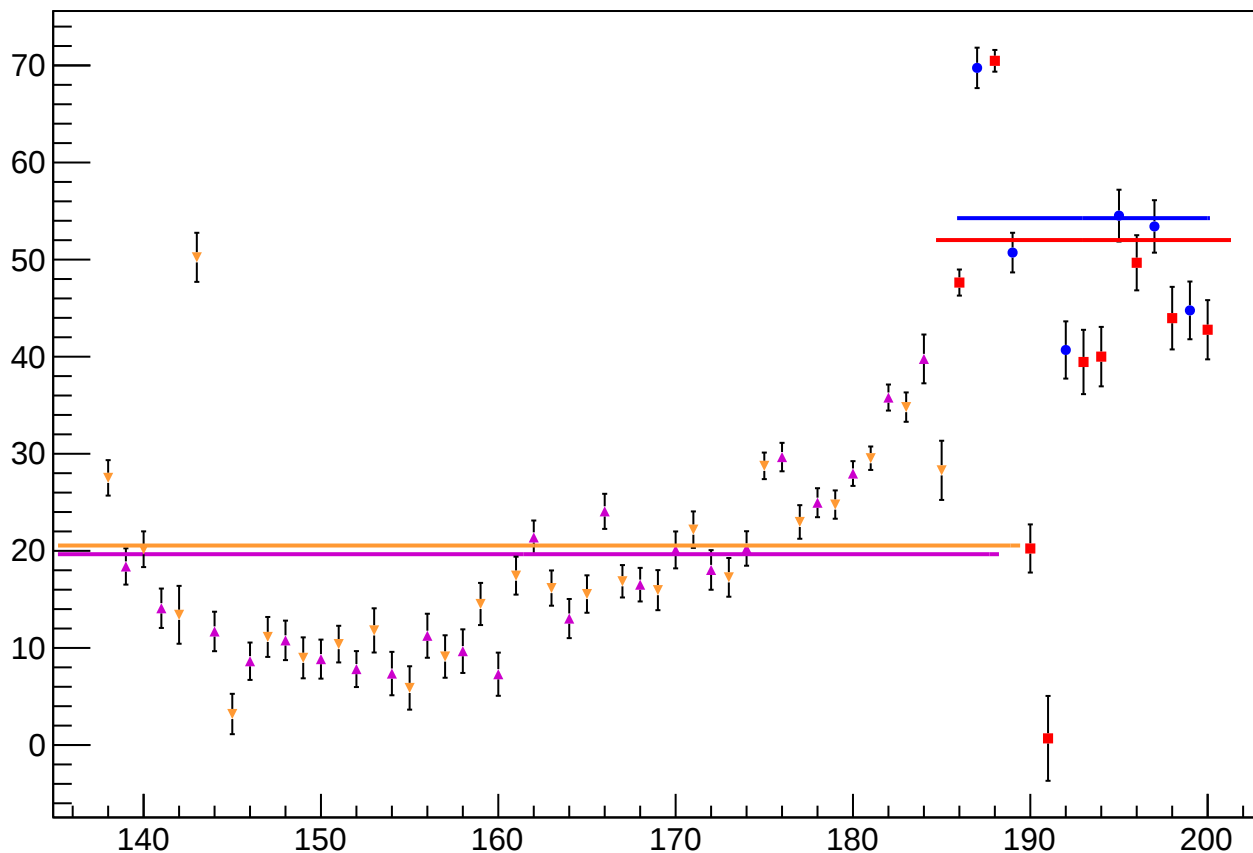
Right: -21.786 ± 0.023 $\chi^2/\text{NDF}: 994707.8/50$

In: -18.685 ± 0.015 $\chi^2/\text{NDF}: 758241.5/45$

Out: -19.147 ± 0.014 $\chi^2/\text{NDF}: 782179.0/52$

All: -18.924 ± 0.010 $\chi^2/\text{NDF}: 1540944.6/98$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 54.270 $\pm$ 1.012 χ^2 /NDF: 89.8/5

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 52.013 $\pm$ 0.691 χ^2 /NDF: 631.1/8

Left In: 19.656 $\pm$ 0.380 χ^2 /NDF: 571.8/22

Left: 20.112 $\pm$ 0.266 χ^2 /NDF: 1201.0/47

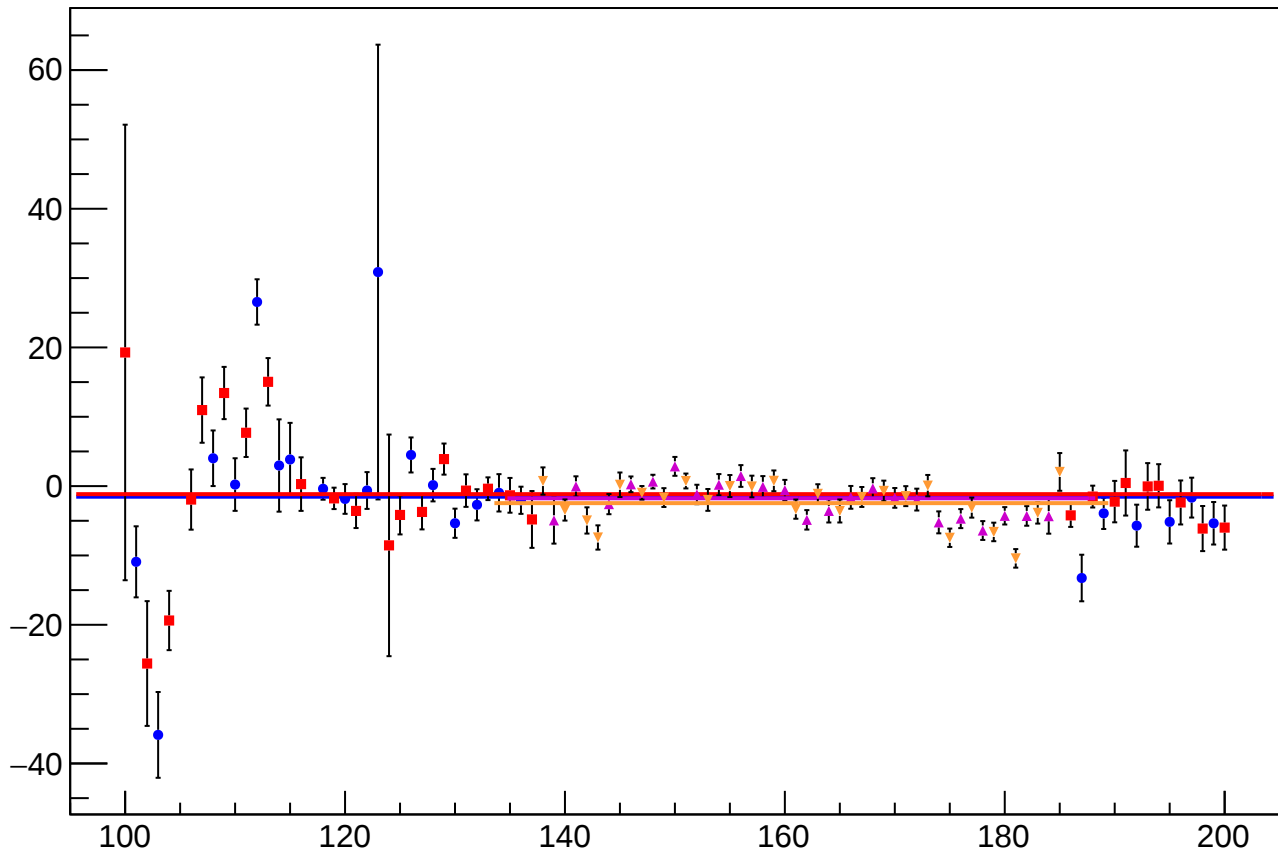
Right: 52.731 $\pm$ 0.571 χ^2 /NDF: 724.2/14

In: 23.940 $\pm$ 0.356 χ^2 /NDF: 1686.3/28

Out: 27.651 $\pm$ 0.328 χ^2 /NDF: 2862.7/33

All: 25.946 $\pm$ 0.241 χ^2 /NDF: 4607.7/62

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.525 ± 0.578 $\chi^2/\text{NDF}: 141.1/22$

Left Out: -2.455 ± 0.292 $\chi^2/\text{NDF}: 106.0/24$

Right Out: -1.161 ± 0.518 $\chi^2/\text{NDF}: 94.9/27$

Left In: -1.758 ± 0.302 $\chi^2/\text{NDF}: 67.4/22$

Left: -2.118 ± 0.210 $\chi^2/\text{NDF}: 176.1/47$

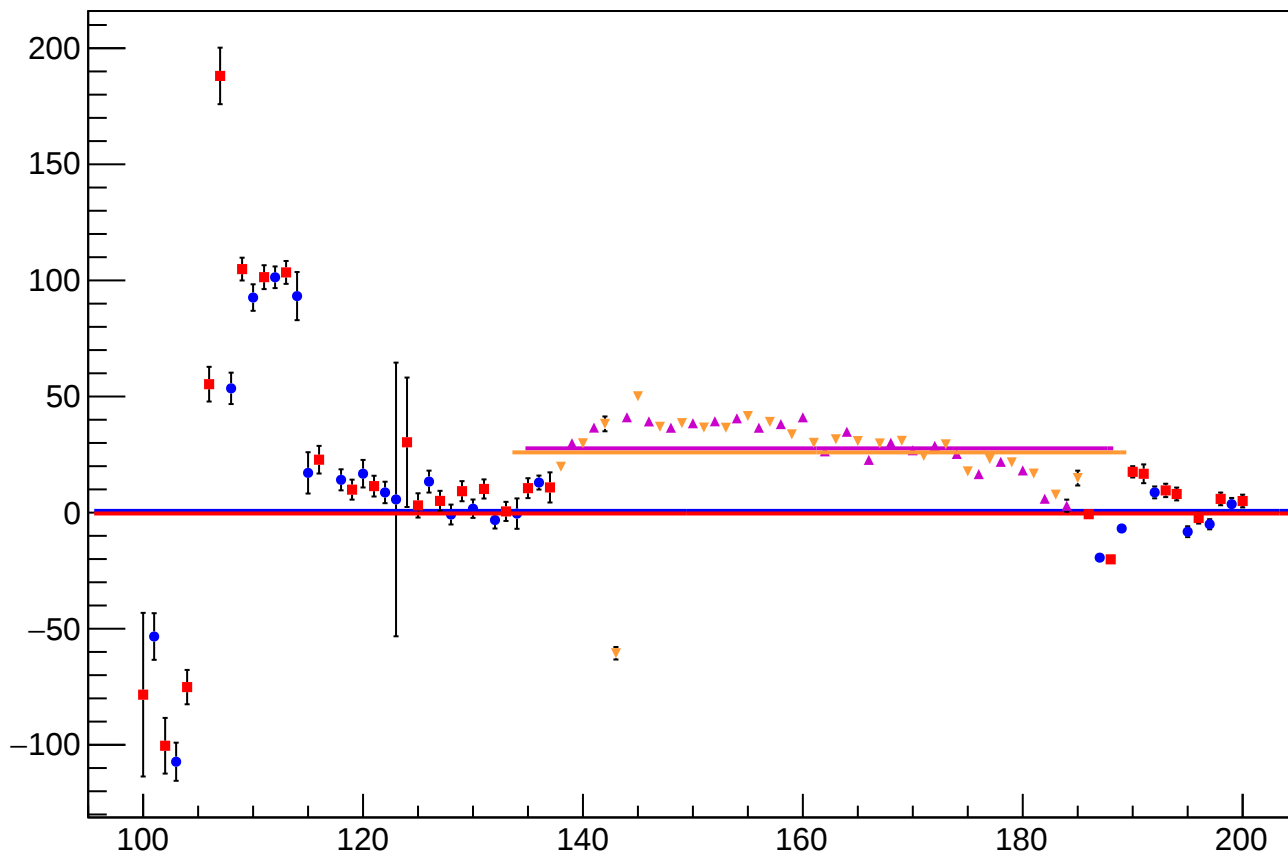
Right: -1.323 ± 0.386 $\chi^2/\text{NDF}: 236.2/50$

In: -1.708 ± 0.268 $\chi^2/\text{NDF}: 208.7/45$

Out: -2.142 ± 0.255 $\chi^2/\text{NDF}: 205.6/52$

All: -1.936 ± 0.184 $\chi^2/\text{NDF}: 415.6/98$

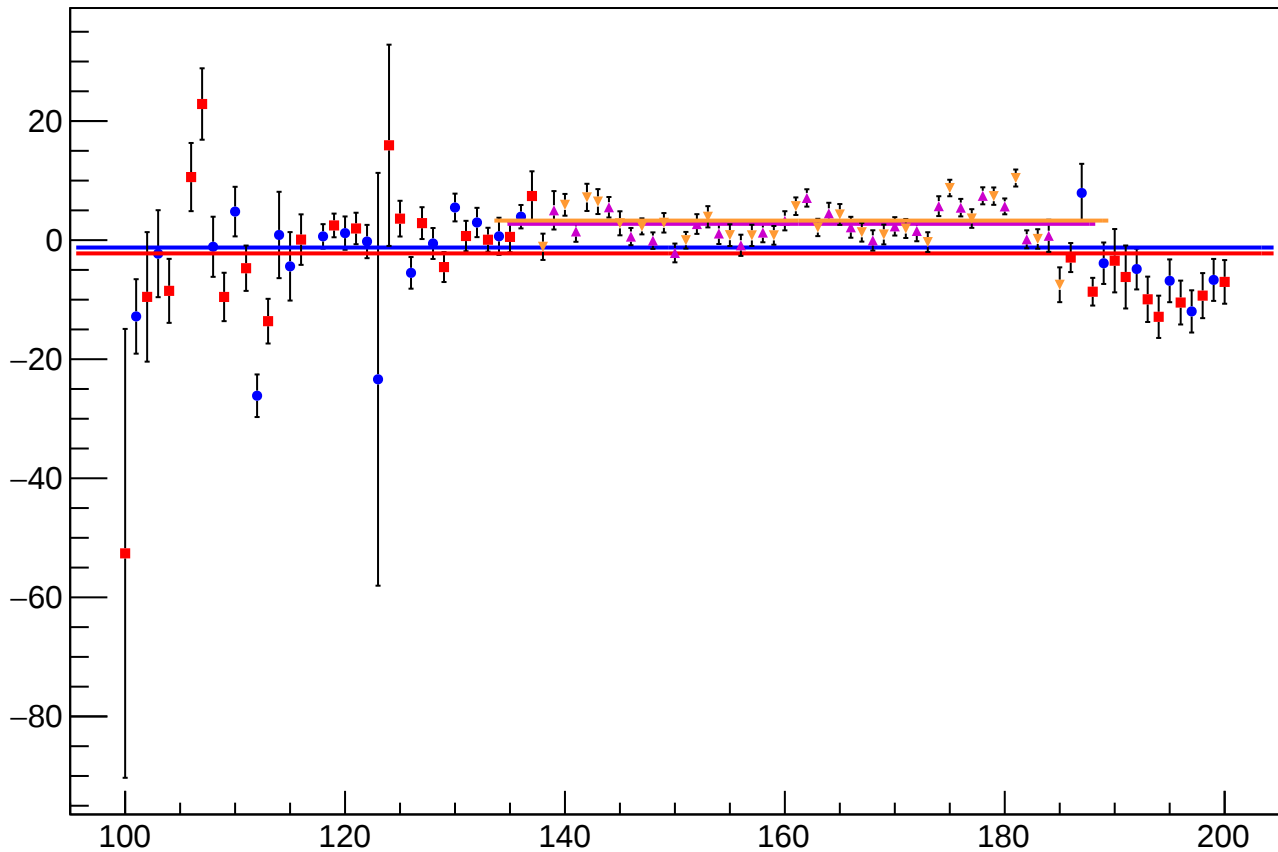
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.741 ± 0.708 $\chi^2/\text{NDF}: 1304.4/22$
 Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$
 Right Out: -0.376 ± 0.523 $\chi^2/\text{NDF}: 2403.2/27$
 Left In: 27.677 ± 0.378 $\chi^2/\text{NDF}: 803.9/22$

Left: 26.794 ± 0.265 $\chi^2/\text{NDF}: 2526.2/47$
 Right: 0.018 ± 0.420 $\chi^2/\text{NDF}: 3709.2/50$
 In: 21.694 ± 0.334 $\chi^2/\text{NDF}: 3234.8/45$
 Out: 17.080 ± 0.303 $\chi^2/\text{NDF}: 5796.2/52$
 All: 19.168 ± 0.224 $\chi^2/\text{NDF}: 9135.8/98$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.241 ± 0.673 χ^2/NDF : 96.8/22

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.230 ± 0.624 χ^2/NDF : 97.6/27

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

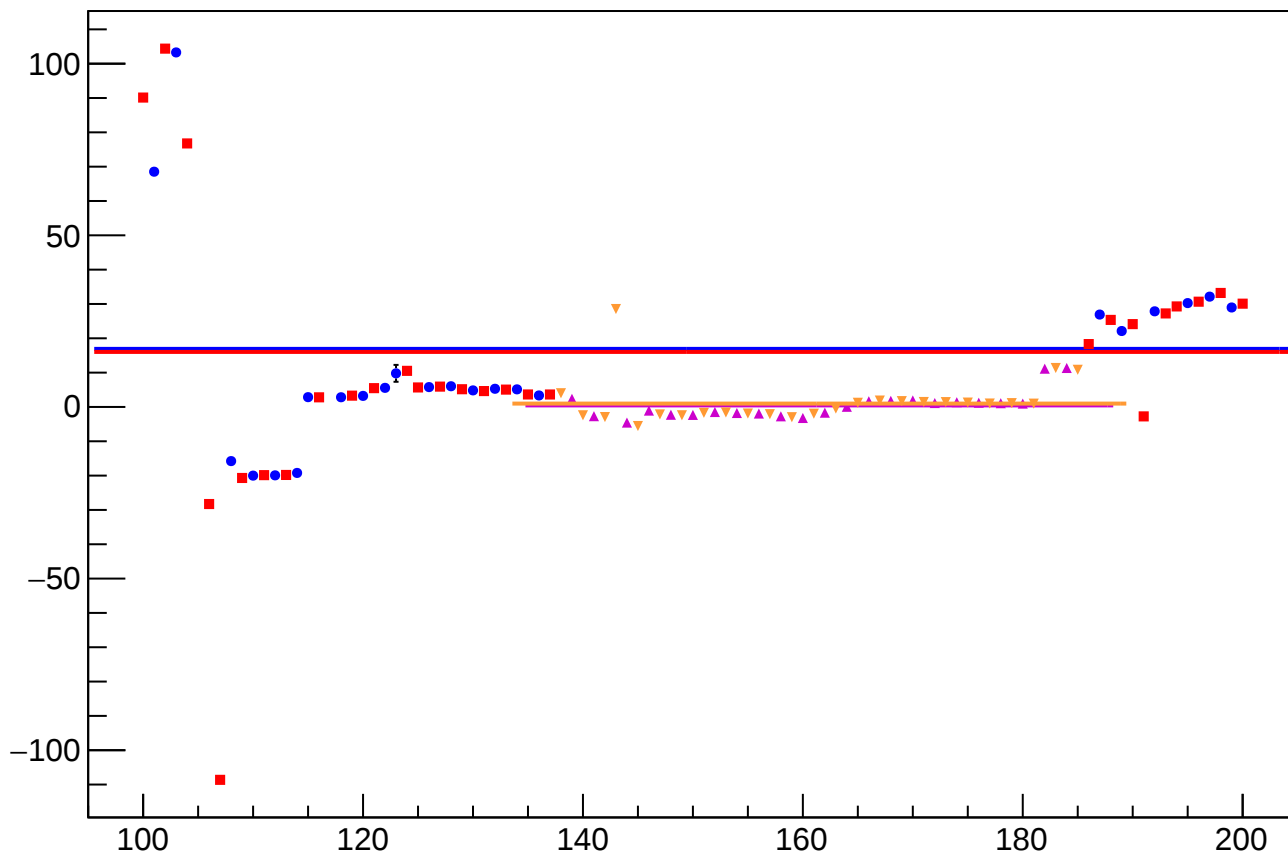
Right: -1.773 ± 0.457 χ^2/NDF : 195.6/50

In: 1.924 ± 0.304 χ^2/NDF : 189.1/45

Out: 2.070 ± 0.293 χ^2/NDF : 260.8/52

All: 2.000 ± 0.211 χ^2/NDF : 450.0/98

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 16.917 $\pm$ 0.033 χ^2 /NDF: 459113.5/22

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF: 117391.3/24

Right Out: 16.035 $\pm$ 0.030 χ^2 /NDF: 695114.2/27

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

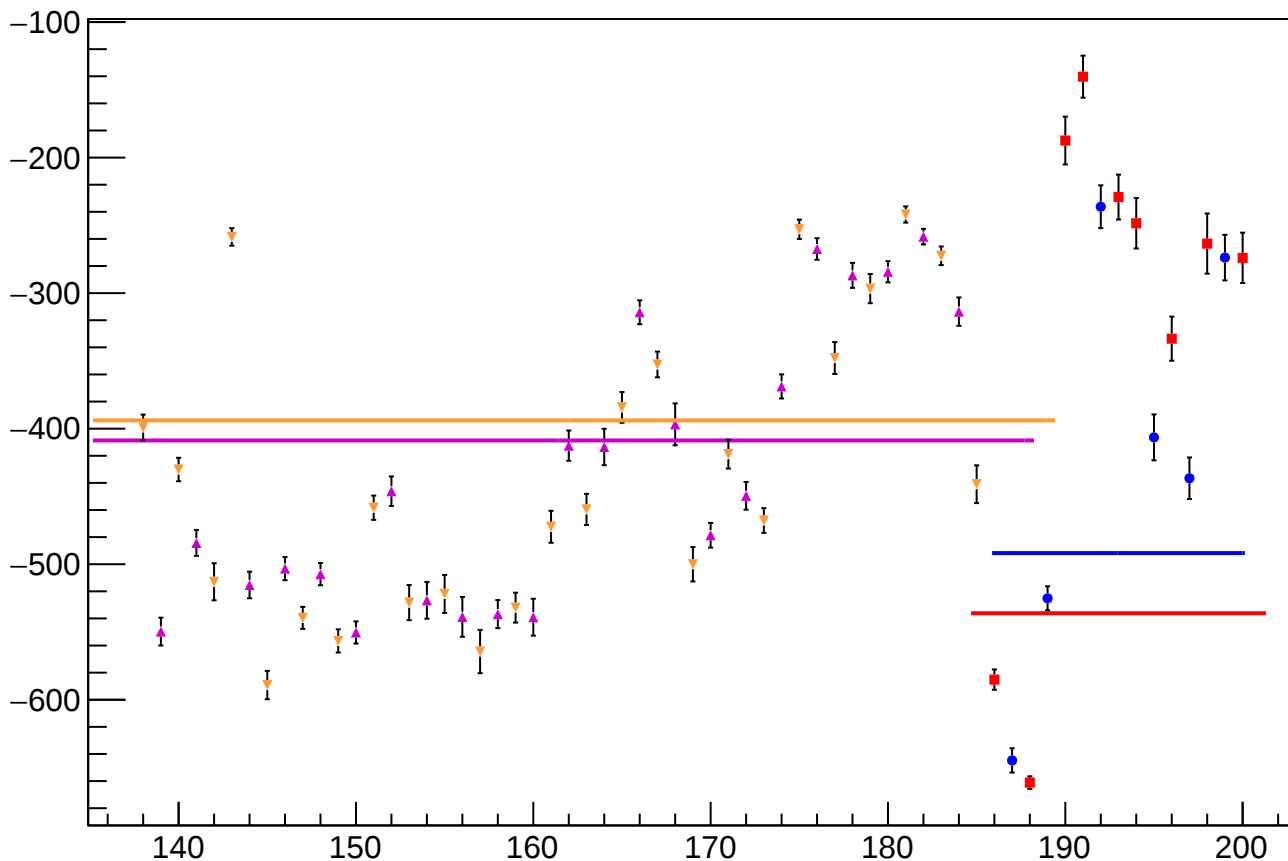
Right: 16.434 $\pm$ 0.022 χ^2 /NDF: 1154610.7/50

In: 3.352 $\pm$ 0.014 χ^2 /NDF: 710432.6/45

Out: 3.996 $\pm$ 0.014 χ^2 /NDF: 1009332.1/52

All: 3.684 $\pm$ 0.010 χ^2 /NDF: 1720852.4/98

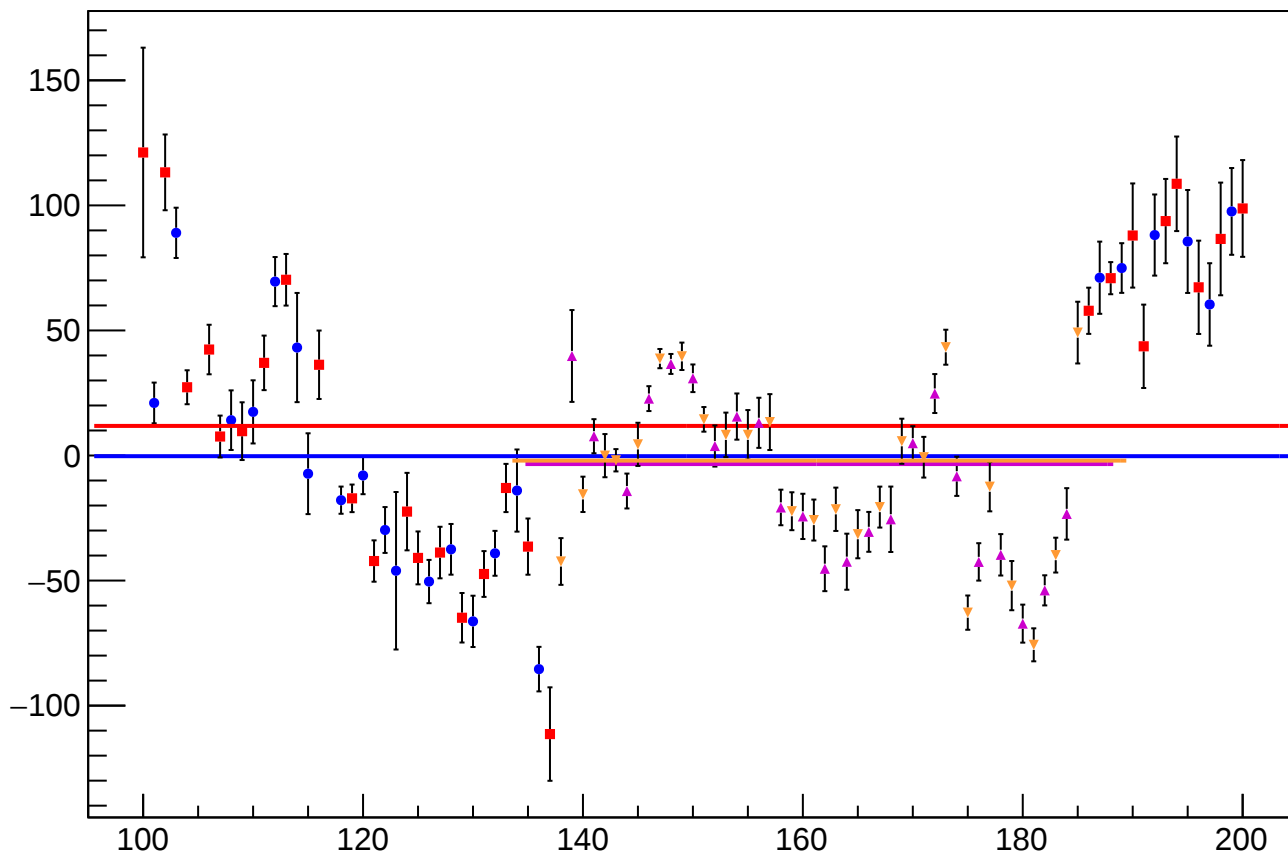
reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -491.785+/-4.972 χ^2 /NDF: 773.7/5
 Left Out: -393.871+/-1.897 χ^2 /NDF:3772.8/24
 Right Out: -536.154+/-3.375 χ^2 /NDF: 2911.7/8
 Left In: -408.696+/-1.979 χ^2 /NDF:3062.9/22

Left: -400.970+/-1.369 χ^2 /NDF: 6864.9/47
 Right: -522.155+/-2.793 χ^2 /NDF: 3740.0/14
 In: -420.061+/-1.839 χ^2 /NDF:4077.7/28
 Out: -428.025+/-1.654 χ^2 /NDF:8034.9/33
 All: -424.463+/-1.230 χ^2 /NDF: 12123.0/62

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.269 ± 2.189 χ^2/NDF : 541.5/22

Left Out: -2.037 ± 1.424 χ^2/NDF : 563.8/24

Right Out: 11.831 ± 1.995 χ^2/NDF : 618.2/27

Left In: -3.420 ± 1.520 χ^2/NDF : 451.0/22

Left: -2.683 ± 1.039 χ^2/NDF : 1015.2/47

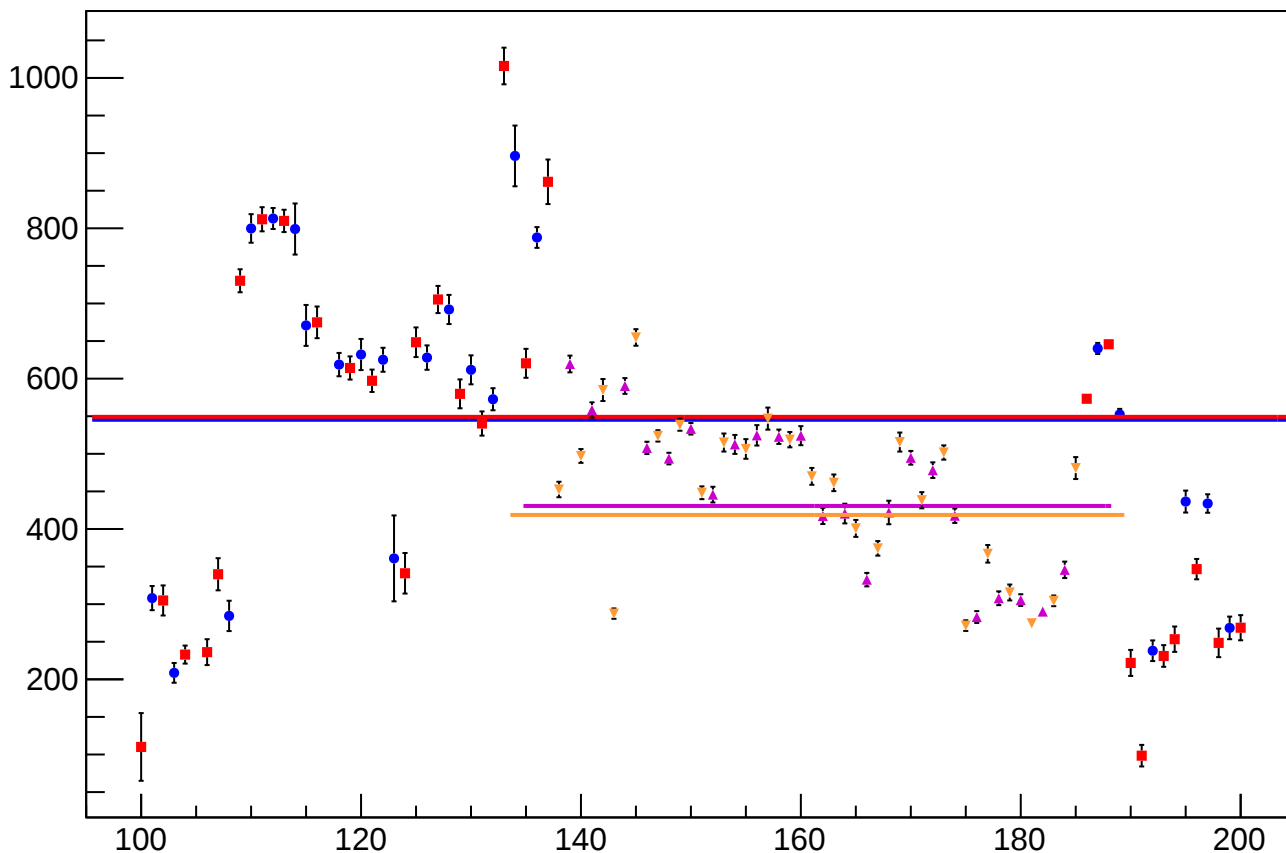
Right: 6.340 ± 1.474 χ^2/NDF : 1176.4/50

In: -2.395 ± 1.249 χ^2/NDF : 993.9/45

Out: 2.644 ± 1.159 χ^2/NDF : 1214.0/52

All: 0.312 ± 0.849 χ^2/NDF : 2216.6/98

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 545.306+/-3.010 χ^2/NDF : 3365.9/22

Left Out: 418.680+/-1.905 χ^2/NDF : 3296.5/24

Right Out: 549.204+/-2.307 χ^2/NDF : 6395.7/27

Left In: 430.640+/-1.971 χ^2/NDF : 2850.6/22

Left: 424.457+/-1.370 χ^2/NDF : 6166.1/47

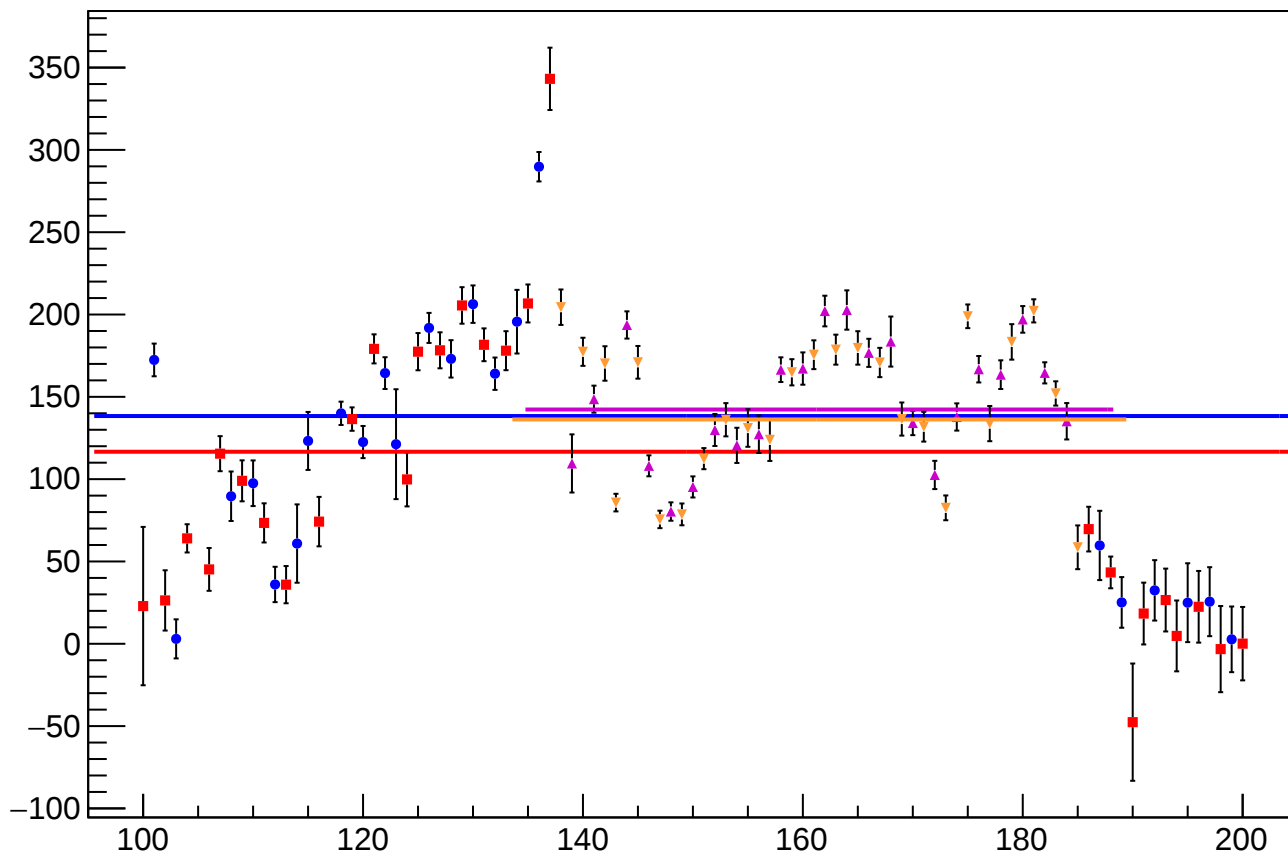
Right: 547.762+/-1.831 χ^2/NDF : 9762.6/50

In: 465.038+/-1.649 χ^2/NDF : 7232.0/45

Out: 471.600+/-1.469 χ^2/NDF : 11595.7/52

All: 468.696+/-1.097 χ^2/NDF : 18836.6/98

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 138.336 ± 2.568 $\chi^2/\text{NDF}: 854.3/22$

Left Out: 136.258 ± 1.651 $\chi^2/\text{NDF}: 758.3/24$

Right Out: 116.647 ± 2.384 $\chi^2/\text{NDF}: 862.4/27$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

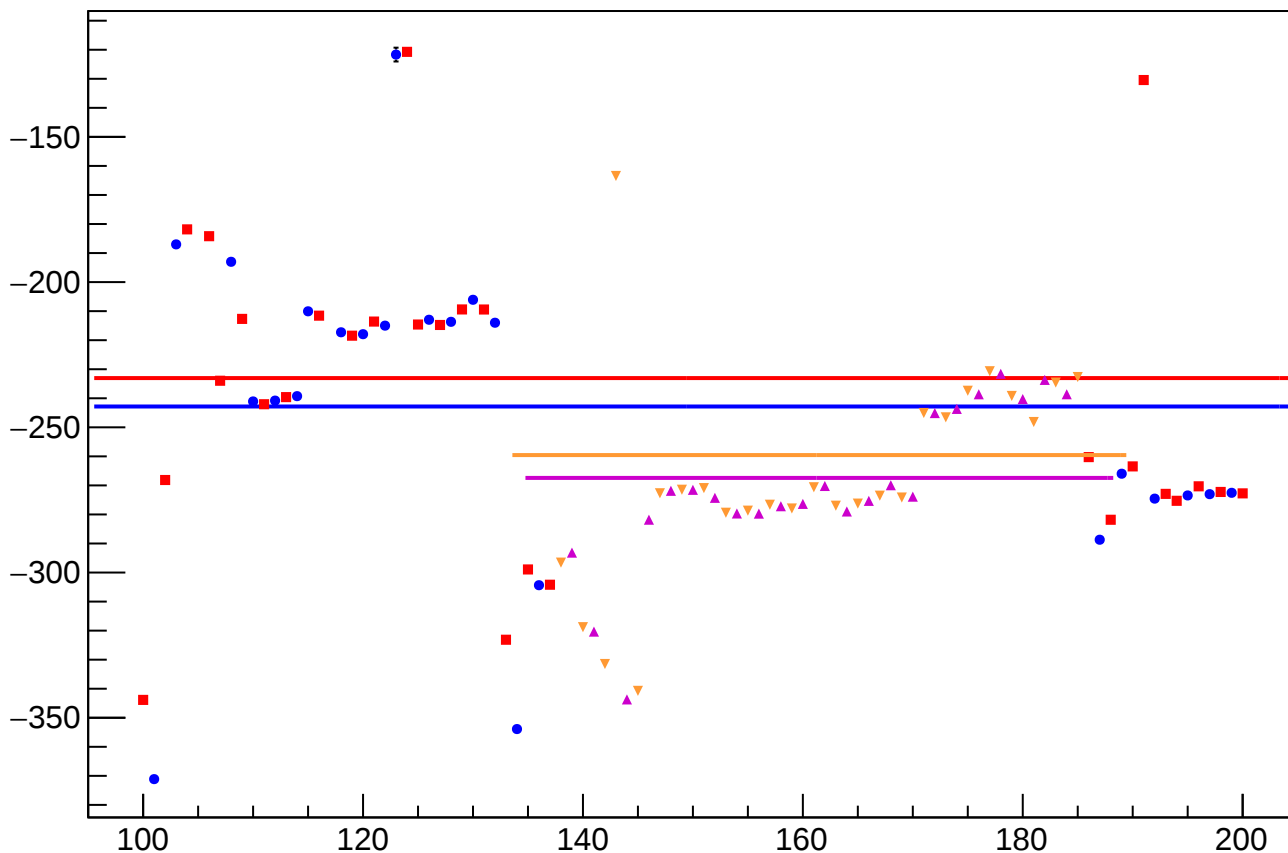
Right: 126.685 ± 1.747 $\chi^2/\text{NDF}: 1755.1/50$

In: 141.046 ± 1.443 $\chi^2/\text{NDF}: 1315.7/45$

Out: 129.900 ± 1.357 $\chi^2/\text{NDF}: 1666.4/52$

All: 135.131 ± 0.989 $\chi^2/\text{NDF}: 3013.8/98$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -242.830 ± 0.132 $\chi^2/\text{NDF}: 159697.2/22$

Left Out: -259.557 ± 0.079 $\chi^2/\text{NDF}: 238235.2/24$

Right Out: -233.046 ± 0.119 $\chi^2/\text{NDF}: 170145.0/27$

Left In: -267.417 ± 0.082 $\chi^2/\text{NDF}: 98035.5/22$

Left: -263.361 ± 0.057 $\chi^2/\text{NDF}: 341051.4/47$

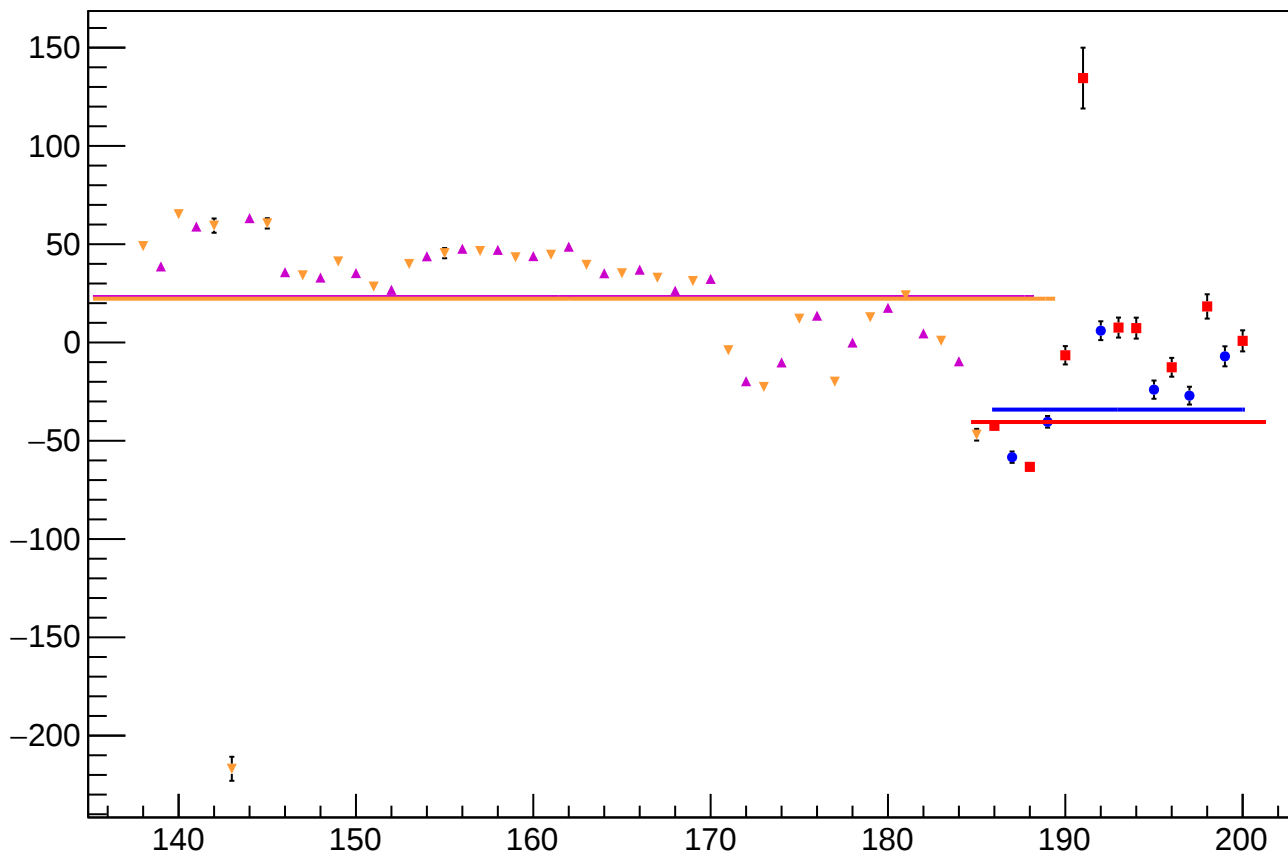
Right: -237.406 ± 0.088 $\chi^2/\text{NDF}: 332877.5/50$

In: -260.627 ± 0.069 $\chi^2/\text{NDF}: 282761.5/45$

Out: -251.392 ± 0.066 $\chi^2/\text{NDF}: 442984.5/52$

All: -255.758 ± 0.048 $\chi^2/\text{NDF}: 735059.7/98$

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -34.139 ± 1.559 $\chi^2/\text{NDF}: 180.4/5$

Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$

Right Out: -40.461 ± 1.017 $\chi^2/\text{NDF}: 748.7/8$

Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$

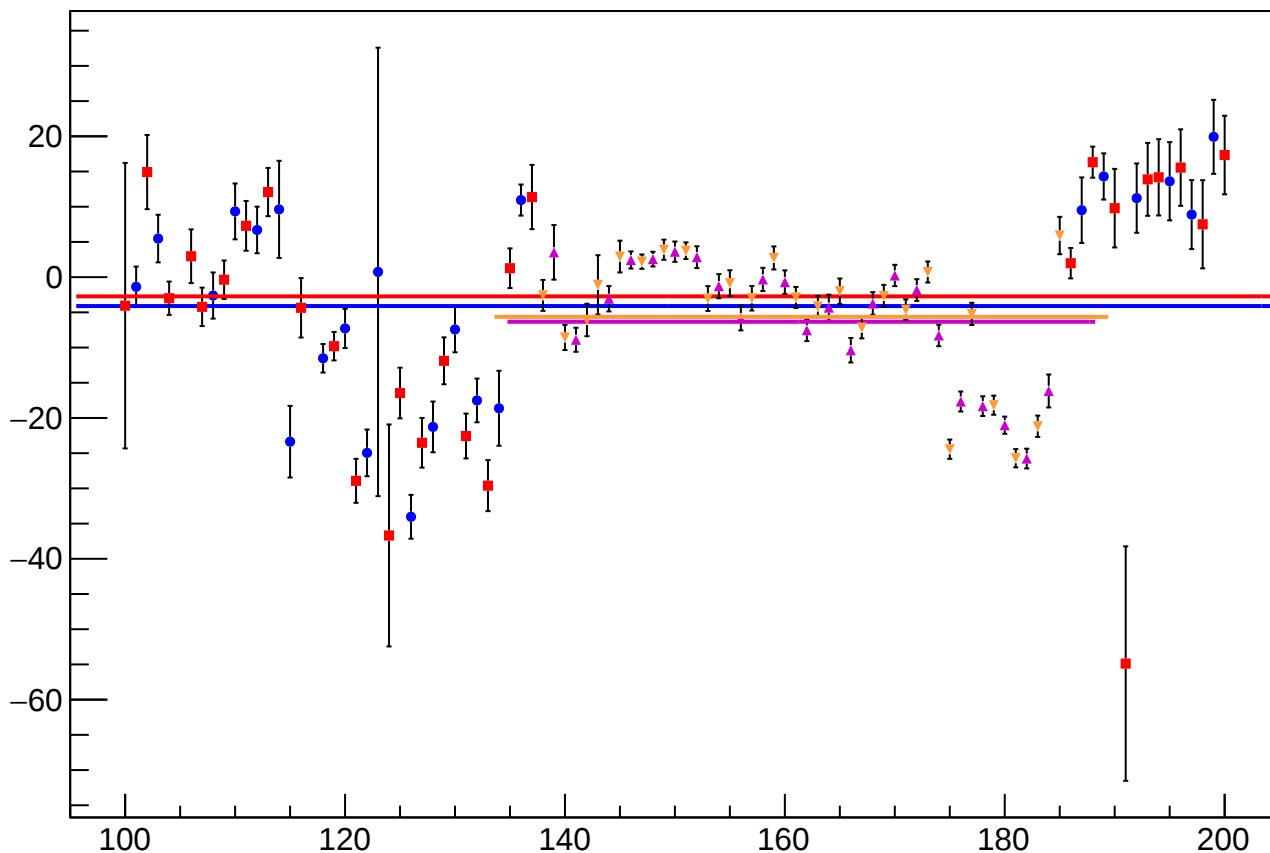
Right: -38.573 ± 0.852 $\chi^2/\text{NDF}: 940.7/14$

In: 19.573 ± 0.389 $\chi^2/\text{NDF}: 4191.6/28$

Out: 13.916 ± 0.371 $\chi^2/\text{NDF}: 9219.5/33$

All: 16.614 ± 0.268 $\chi^2/\text{NDF}: 13521.8/62$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.106 ± 0.727 $\chi^2/\text{NDF}: 380.7/22$

Left Out: -5.642 ± 0.316 $\chi^2/\text{NDF}: 893.7/24$

Right Out: -2.731 ± 0.653 $\chi^2/\text{NDF}: 431.9/27$

Left In: -6.337 ± 0.321 $\chi^2/\text{NDF}: 783.0/22$

Left: -5.983 ± 0.225 $\chi^2/\text{NDF}: 1679.1/47$

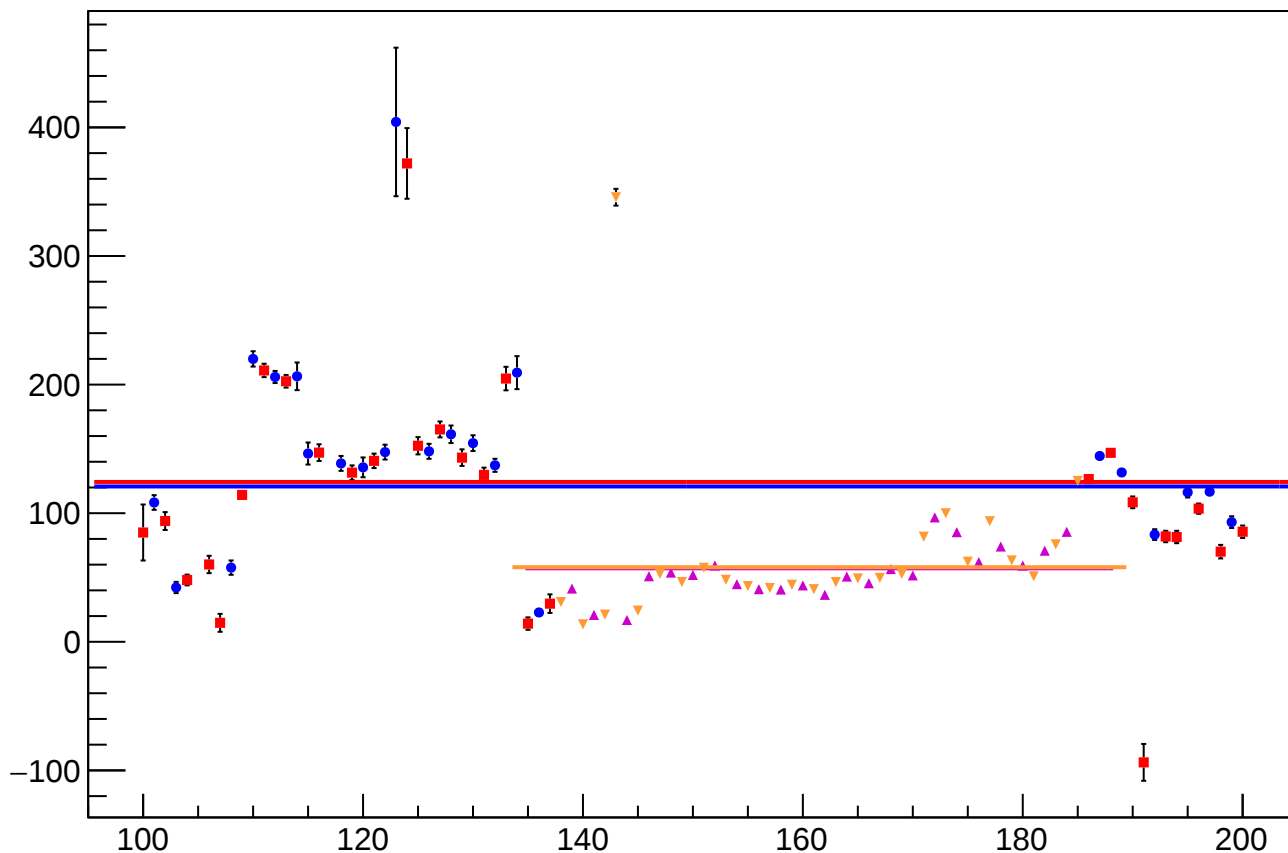
Right: -3.345 ± 0.486 $\chi^2/\text{NDF}: 814.6/50$

In: -5.973 ± 0.294 $\chi^2/\text{NDF}: 1171.5/45$

Out: -5.092 ± 0.284 $\chi^2/\text{NDF}: 1341.7/52$

All: -5.517 ± 0.204 $\chi^2/\text{NDF}: 2517.9/98$

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 120.789 $\pm$ 0.964 χ^2 /NDF: 2404.8/22

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 124.305 $\pm$ 0.713 χ^2 /NDF: 3115.3/27

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

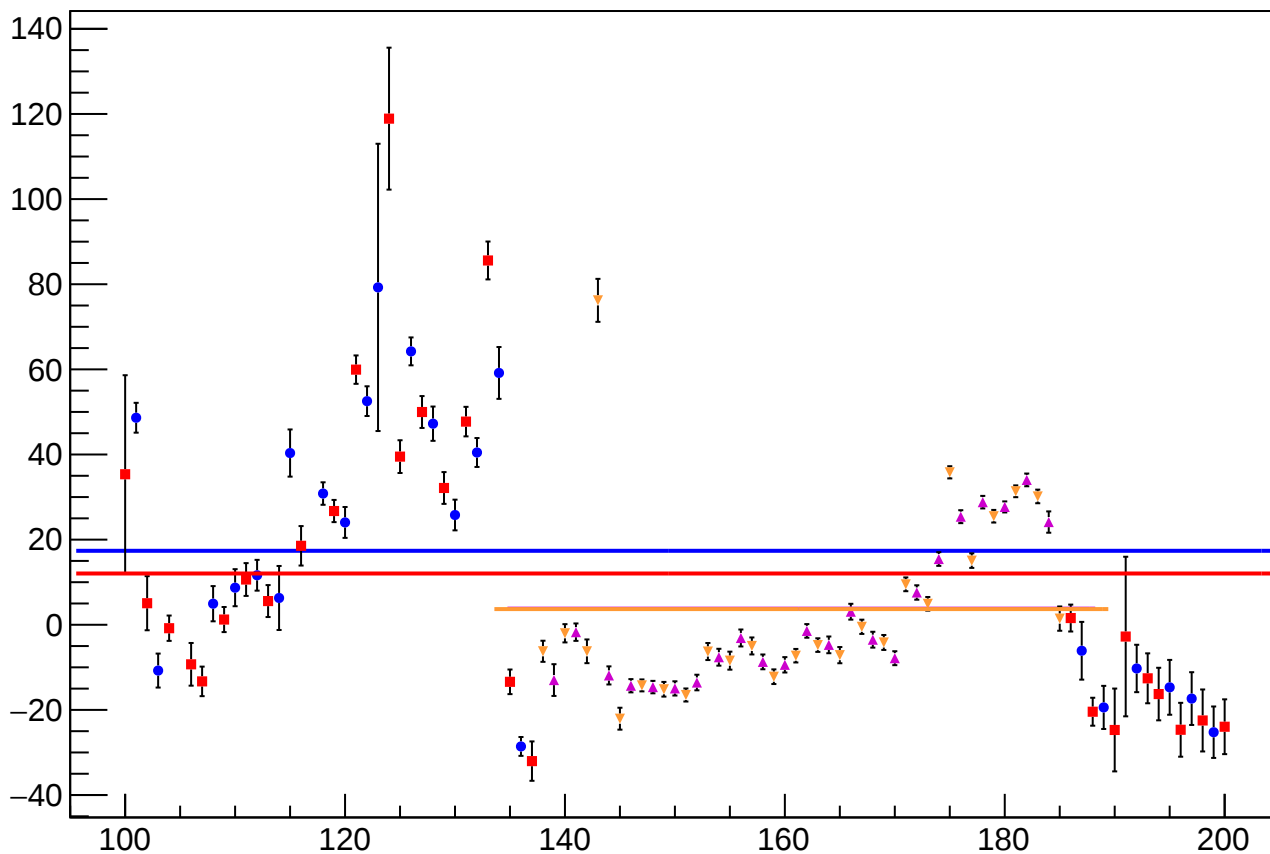
Right: 123.062 $\pm$ 0.573 χ^2 /NDF: 5528.8/50

In: 66.477 $\pm$ 0.369 χ^2 /NDF:7931.2/45

Out: 73.753 $\pm$ 0.347 χ^2 /NDF:14352.1/52

All: 70.334 $\pm$ 0.253 χ^2 /NDF: 22489.4/98

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 17.376+/-0.844 χ^2/NDF : 1282.8/22

Left Out: 3.684+/-0.357 χ^2/NDF : 2541.7/24

Right Out: 12.044+/-0.780 χ^2/NDF : 1369.4/27

Left In: 3.786+/-0.362 χ^2/NDF : 2198.8/22

Left: 3.734+/-0.254 χ^2/NDF : 4740.5/47

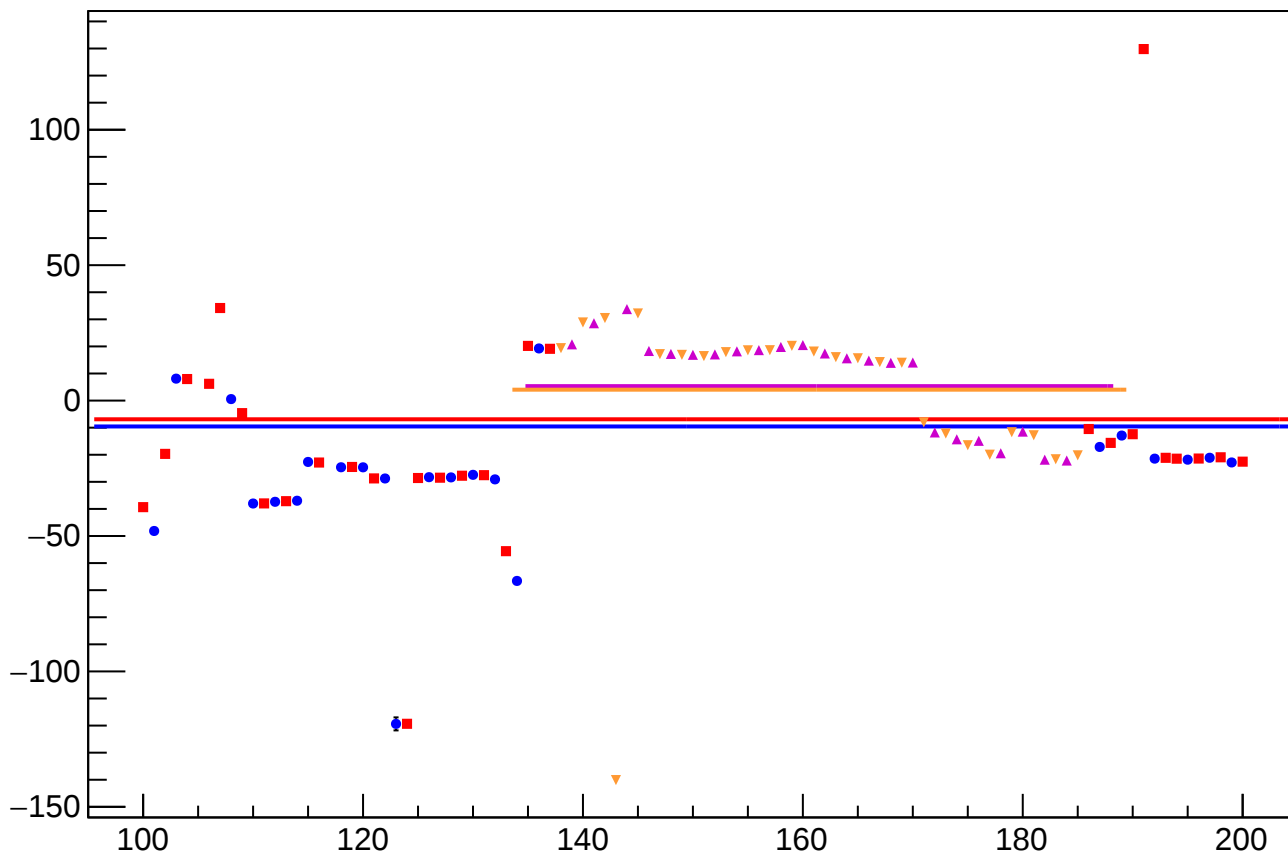
Right: 14.501+/-0.573 χ^2/NDF : 2673.7/50

In: 5.896+/-0.333 χ^2/NDF : 3700.7/45

Out: 5.130+/-0.324 χ^2/NDF : 4006.1/52

All: 5.504+/-0.232 χ^2/NDF : 7709.5/98

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -9.553 ± 0.041 χ^2/NDF : 286842.9/22

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -6.903 ± 0.038 χ^2/NDF : 376809.5/27

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

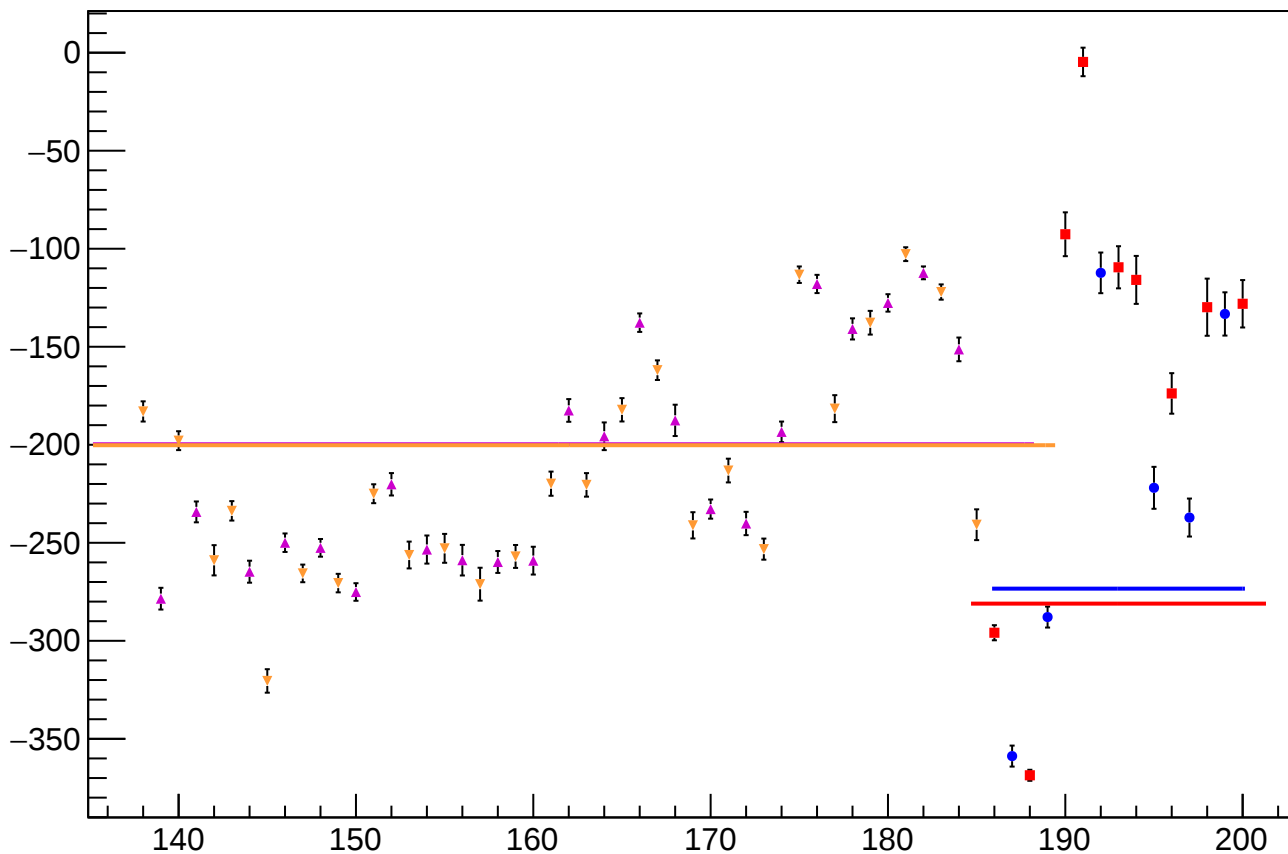
Right: -8.143 ± 0.028 χ^2/NDF : 665911.0/50

In: 3.248 ± 0.015 χ^2/NDF : 1479871.5/45

Out: 2.328 ± 0.015 χ^2/NDF : 1829232.3/52

All: 2.782 ± 0.011 χ^2/NDF : 3310950.2/98

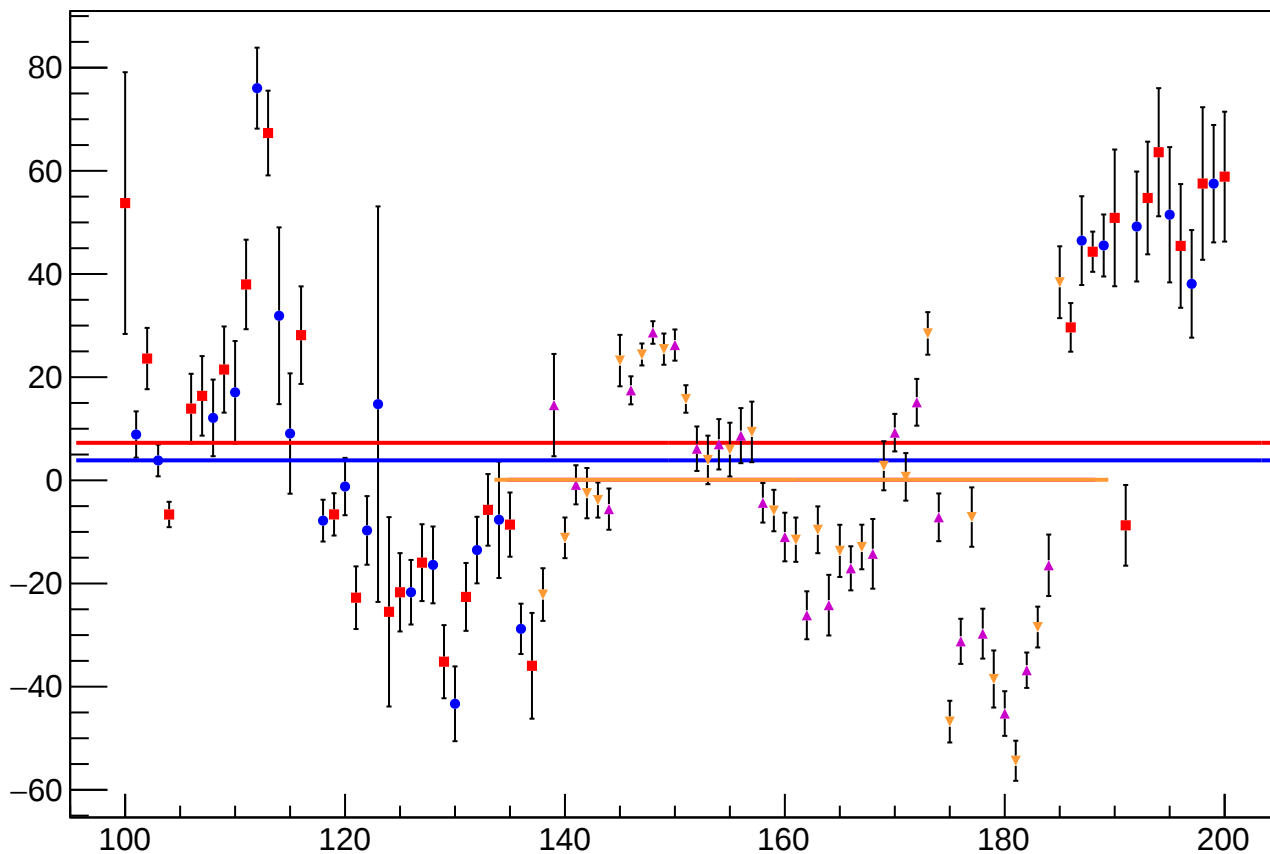
reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -273.389 ± 3.062 $\chi^2/\text{NDF}: 701.3/5$
 Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$
 Right Out: -281.030 ± 1.973 $\chi^2/\text{NDF}: 3521.5/8$
 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: -278.787 ± 1.659 $\chi^2/\text{NDF}: 4227.2/14$
 In: -208.125 ± 1.033 $\chi^2/\text{NDF}: 4182.1/28$
 Out: -218.797 ± 0.946 $\chi^2/\text{NDF}: 8038.0/33$
 All: -213.930 ± 0.698 $\chi^2/\text{NDF}: 12278.2/62$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.871 ± 1.366 χ^2/NDF : 361.4/22

Left Out: 0.109 ± 0.807 χ^2/NDF : 831.2/24

Right Out: 7.273 ± 1.215 χ^2/NDF : 472.4/27

Left In: 0.097 ± 0.838 χ^2/NDF : 715.5/22

Left: 0.103 ± 0.581 χ^2/NDF : 1546.7/47

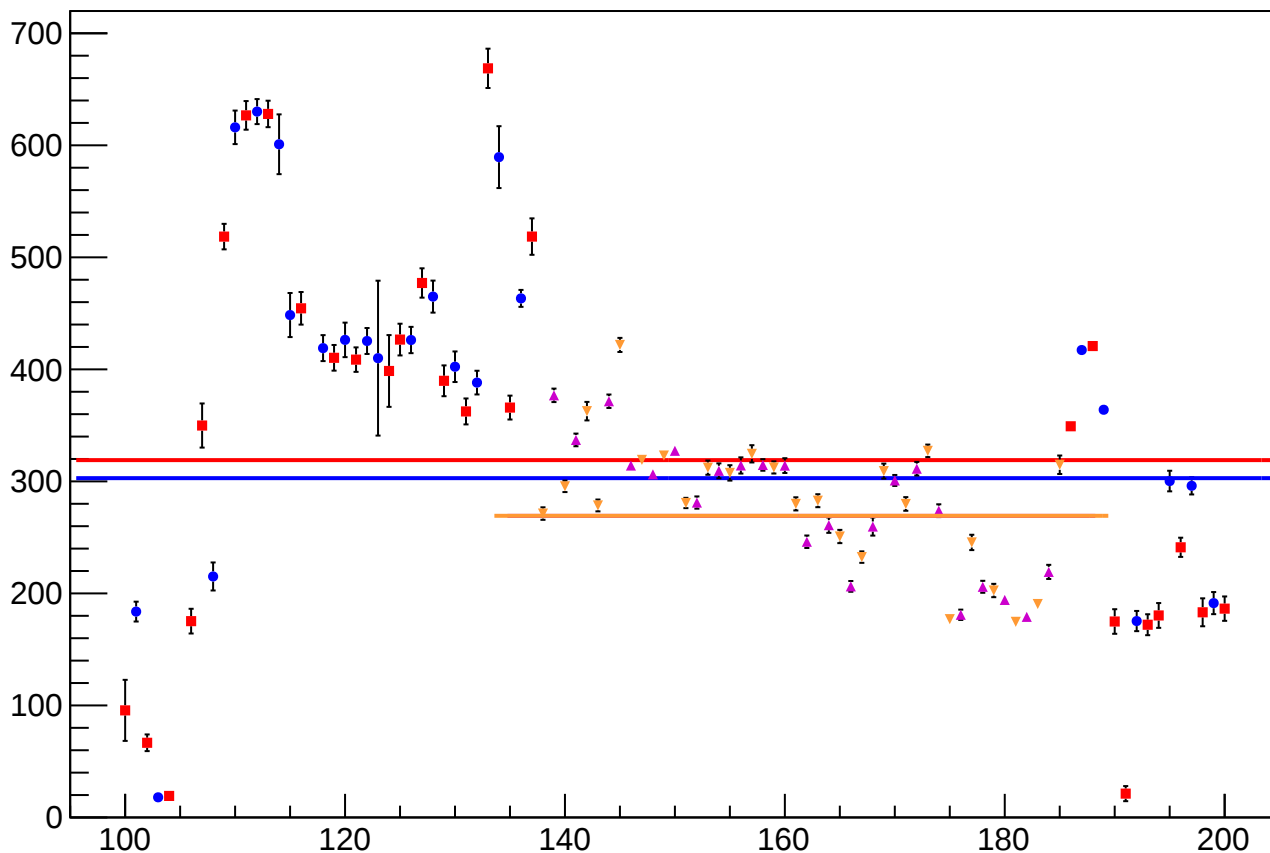
Right: 5.770 ± 0.908 χ^2/NDF : 837.2/50

In: 1.129 ± 0.714 χ^2/NDF : 1082.4/45

Out: 2.302 ± 0.672 χ^2/NDF : 1327.8/52

All: 1.751 ± 0.490 χ^2/NDF : 2411.6/98

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 302.885 $\pm$ 1.783 χ^2 /NDF: 9039.6/22

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 318.981 $\pm$ 1.354 χ^2 /NDF: 13756.5/27

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

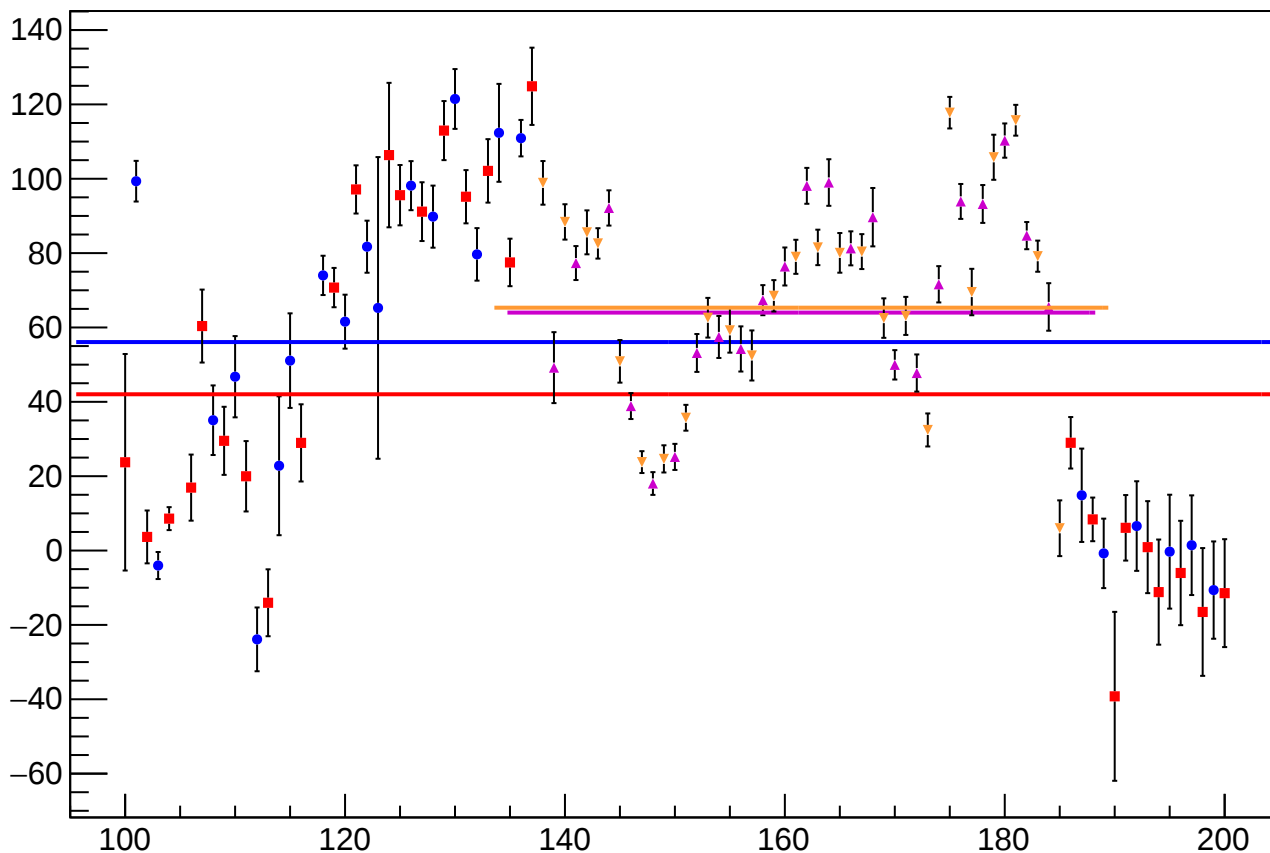
Right: 313.096 $\pm$ 1.078 χ^2 /NDF: 22847.8/50

In: 278.363 $\pm$ 0.930 χ^2 /NDF:12469.6/45

Out: 288.555 $\pm$ 0.843 χ^2 /NDF:17728.3/52

All: 283.959 $\pm$ 0.625 χ^2 /NDF: 30263.8/98

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 56.077 ± 1.606 $\chi^2/\text{NDF}: 855.4/22$

Left Out: 65.323 ± 0.935 $\chi^2/\text{NDF}: 1007.1/24$

Right Out: 42.033 ± 1.475 $\chi^2/\text{NDF}: 807.8/27$

Left In: 63.999 ± 0.963 $\chi^2/\text{NDF}: 799.5/22$

Left: 64.681 ± 0.671 $\chi^2/\text{NDF}: 1807.5/47$

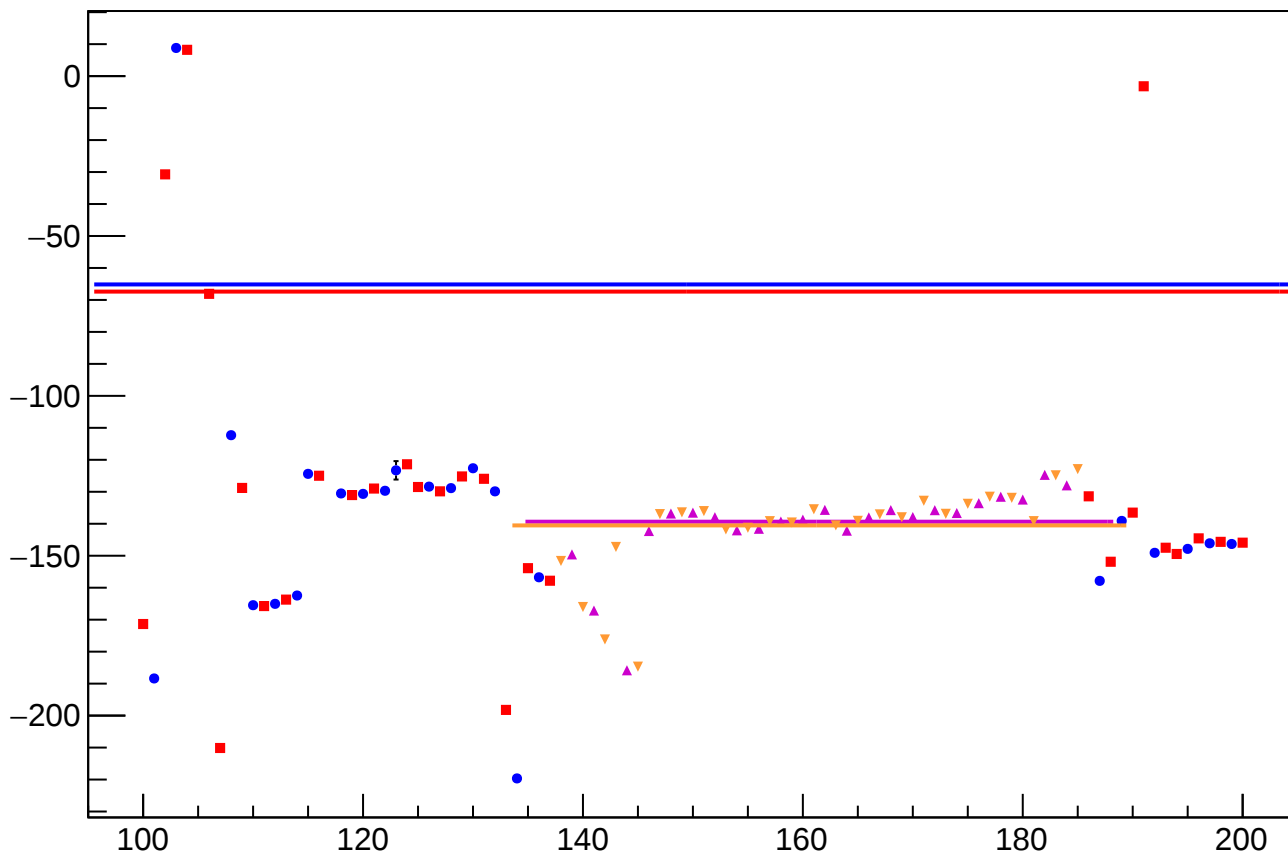
Right: 48.461 ± 1.086 $\chi^2/\text{NDF}: 1704.7/50$

In: 61.904 ± 0.826 $\chi^2/\text{NDF}: 1672.8/45$

Out: 58.653 ± 0.790 $\chi^2/\text{NDF}: 1992.7/52$

All: 60.205 ± 0.571 $\chi^2/\text{NDF}: 3673.6/98$

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -65.151 ± 0.066 $\chi^2/\text{NDF}: 1450375.0/22$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -67.391 ± 0.063 $\chi^2/\text{NDF}: 1336734.6/27$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

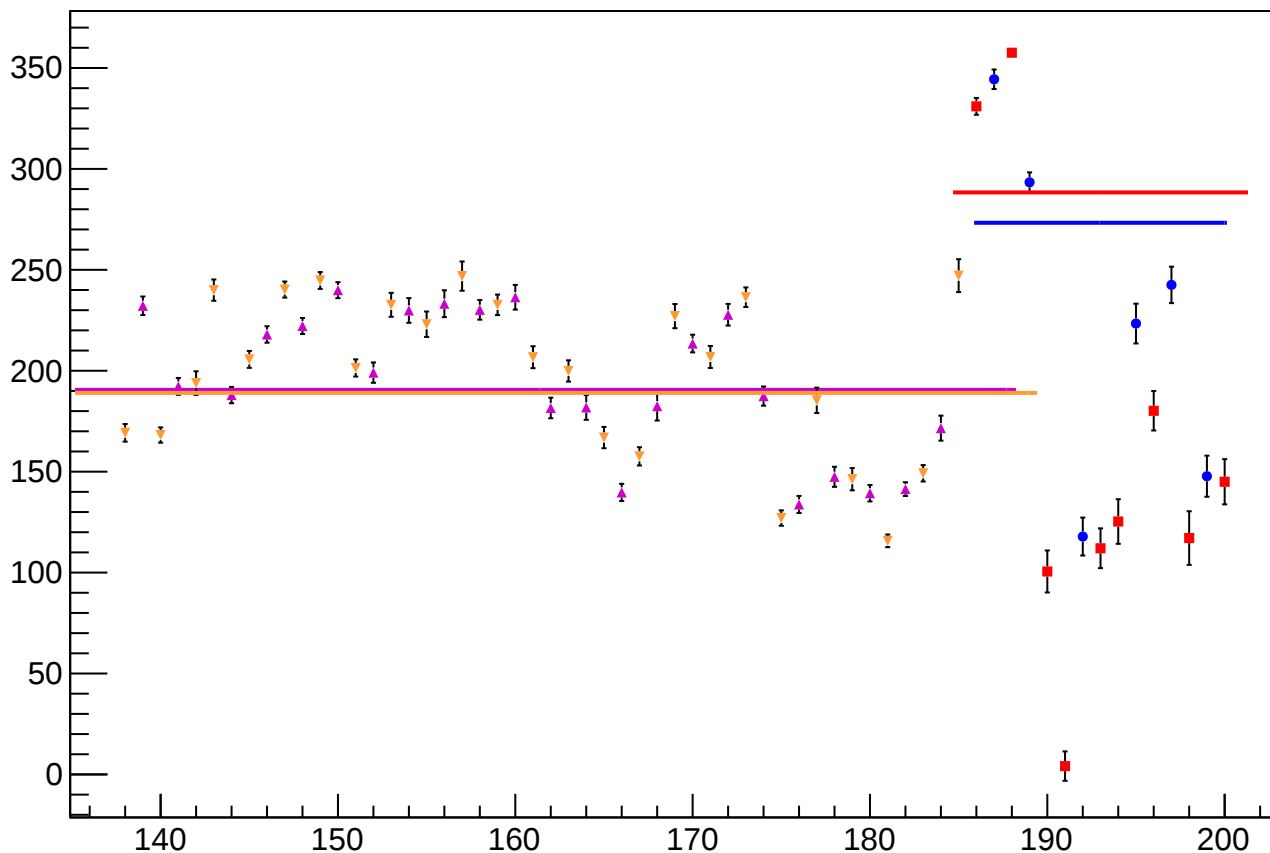
Right: -66.323 ± 0.045 $\chi^2/\text{NDF}: 2787716.8/50$

In: -115.699 ± 0.037 $\chi^2/\text{NDF}: 2379533.4/45$

Out: -116.022 ± 0.036 $\chi^2/\text{NDF}: 2316684.9/52$

All: -115.864 ± 0.026 $\chi^2/\text{NDF}: 4696256.9/98$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 273.308 ± 2.799 χ^2/NDF : 695.8/5

Left Out: 189.030 ± 0.956 χ^2/NDF : 1980.9/24

Right Out: 288.349 ± 1.863 χ^2/NDF : 3709.3/8

Left In: 190.506 ± 0.975 χ^2/NDF : 1412.7/22

Left: 189.753 ± 0.683 χ^2/NDF : 3394.8/47

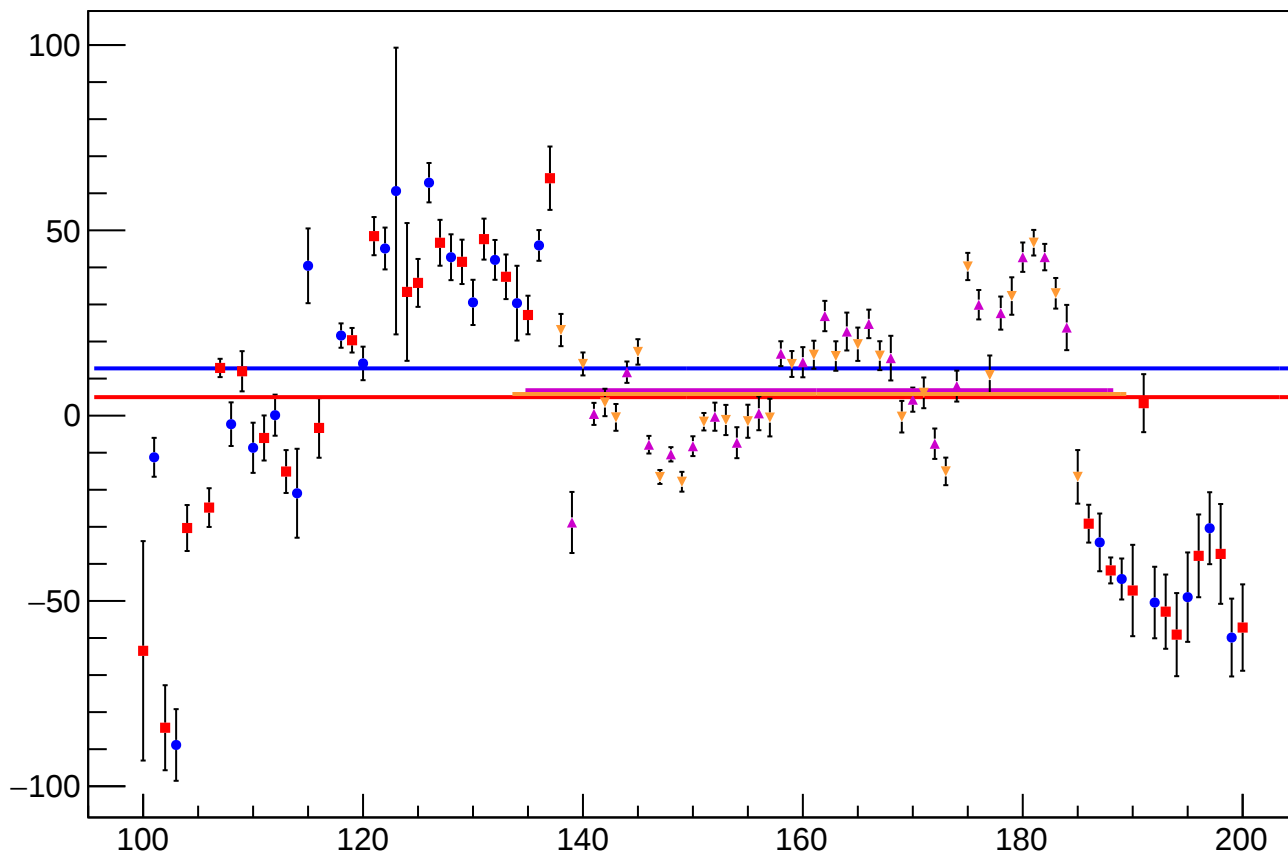
Right: 283.730 ± 1.551 χ^2/NDF : 4425.1/14

In: 199.468 ± 0.921 χ^2/NDF : 2889.0/28

Out: 209.719 ± 0.851 χ^2/NDF : 7939.2/33

All: 205.000 ± 0.625 χ^2/NDF : 10895.0/62

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.752+/-1.293 χ^2/NDF : 706.5/22

Left Out: 5.834+/-0.712 χ^2/NDF : 652.2/24

Right Out: 4.994+/-1.088 χ^2/NDF : 873.9/27

Left In: 6.862+/-0.736 χ^2/NDF : 522.7/22

Left: 6.331+/-0.512 χ^2/NDF : 1176.0/47

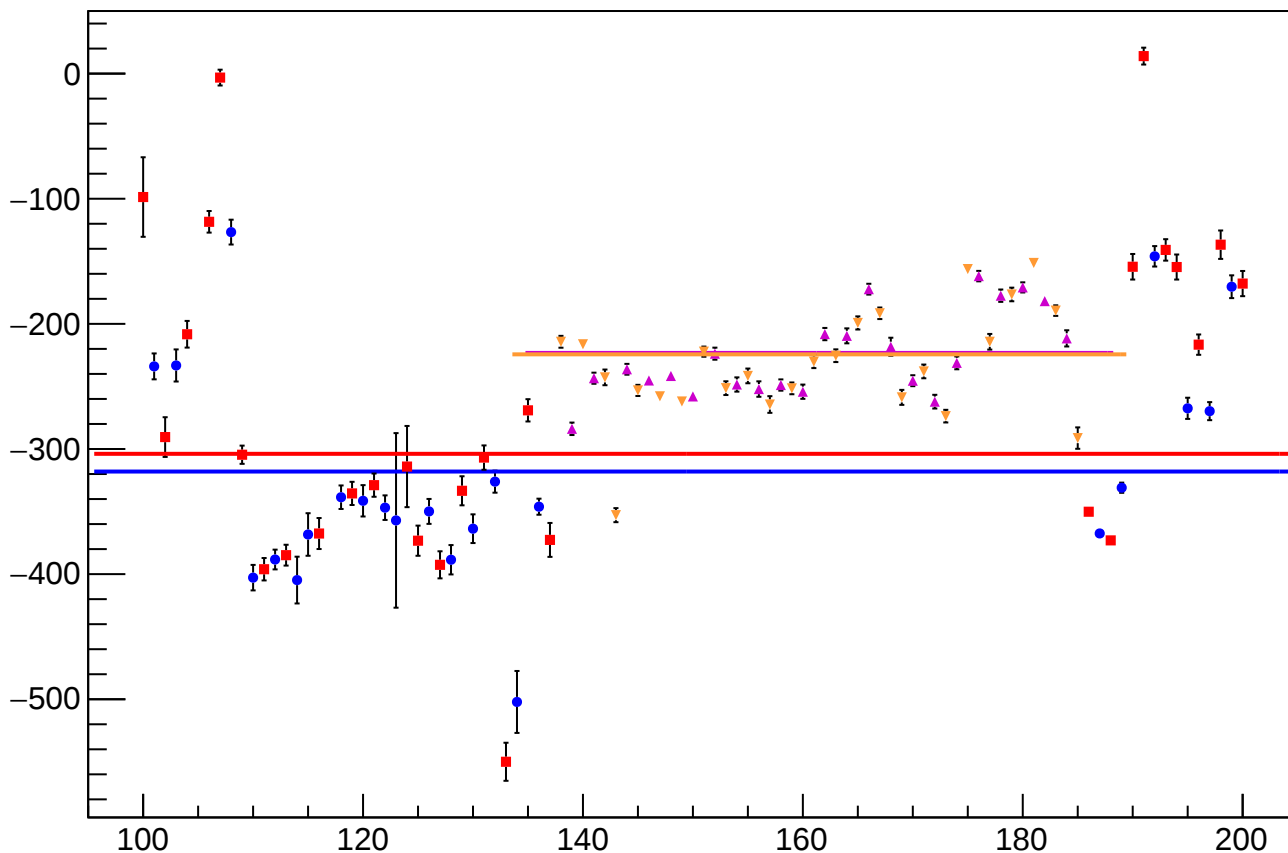
Right: 8.211+/-0.833 χ^2/NDF : 1601.4/50

In: 8.304+/-0.640 χ^2/NDF : 1244.9/45

Out: 5.582+/-0.596 χ^2/NDF : 1526.5/52

All: 6.847+/-0.436 χ^2/NDF : 2781.1/98

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -318.015 $\pm$ 1.732 χ^2 /NDF: 1767.0/22

Left Out: -224.364 $\pm$ 0.956 χ^2 /NDF:2103.2/24

Right Out: -303.857 $\pm$ 1.280 χ^2 /NDF: 8419.2/27

Left In: -223.223 $\pm$ 0.969 χ^2 /NDF:1269.3/22

Left: -223.801 $\pm$ 0.681 χ^2 /NDF: 3373.2/47

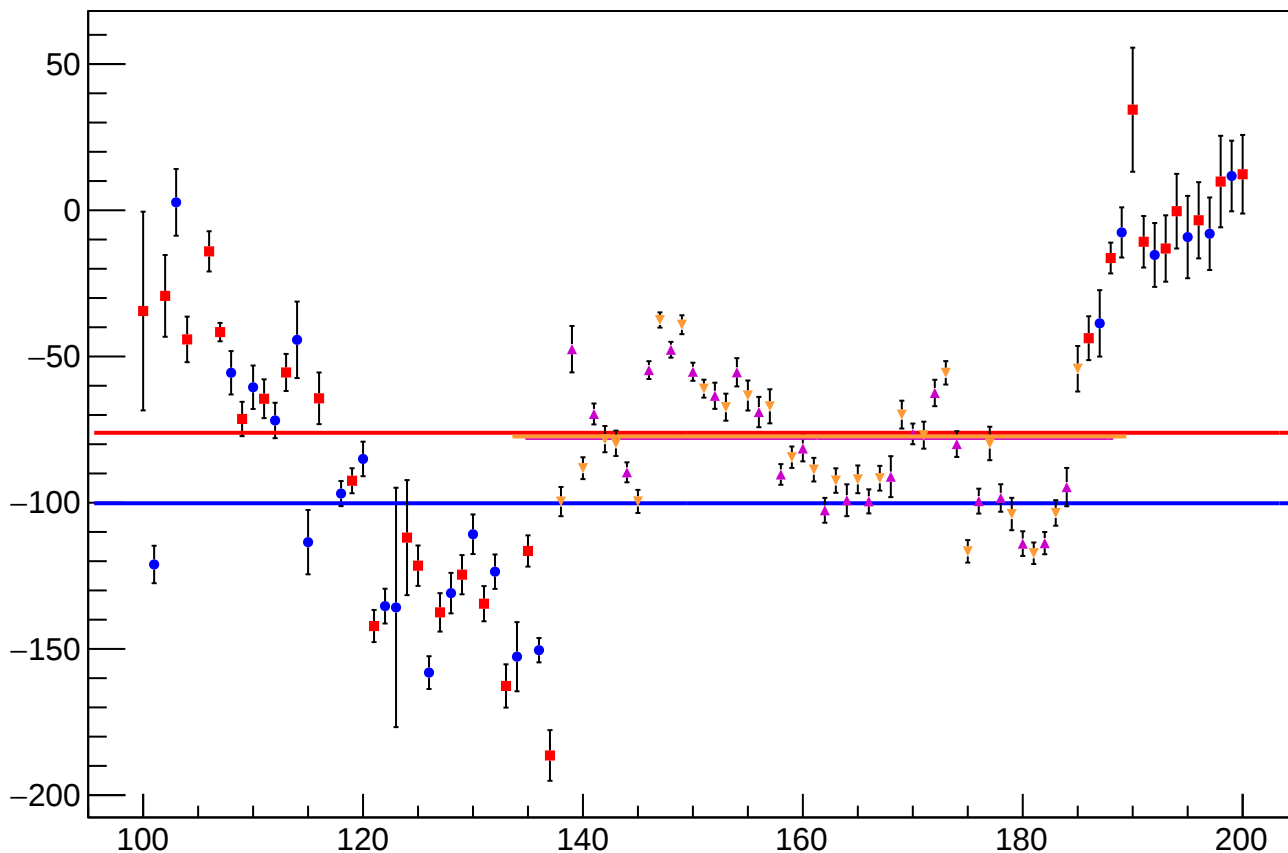
Right: -308.857 $\pm$ 1.029 χ^2 /NDF: 10229.4/50

In: -245.831 $\pm$ 0.846 χ^2 /NDF:5317.8/45

Out: -252.841 $\pm$ 0.766 χ^2 /NDF:12999.2/52

All: -249.683 $\pm$ 0.568 χ^2 /NDF: 18354.8/98

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -100.187 ± 1.510 χ^2/NDF : 940.9/22

Left Out: -77.343 ± 0.827 χ^2/NDF : 846.2/24

Right Out: -76.090 ± 1.309 χ^2/NDF : 1443.5/27

Left In: -77.838 ± 0.849 χ^2/NDF : 622.8/22

Left: -77.584 ± 0.592 χ^2/NDF : 1469.2/47

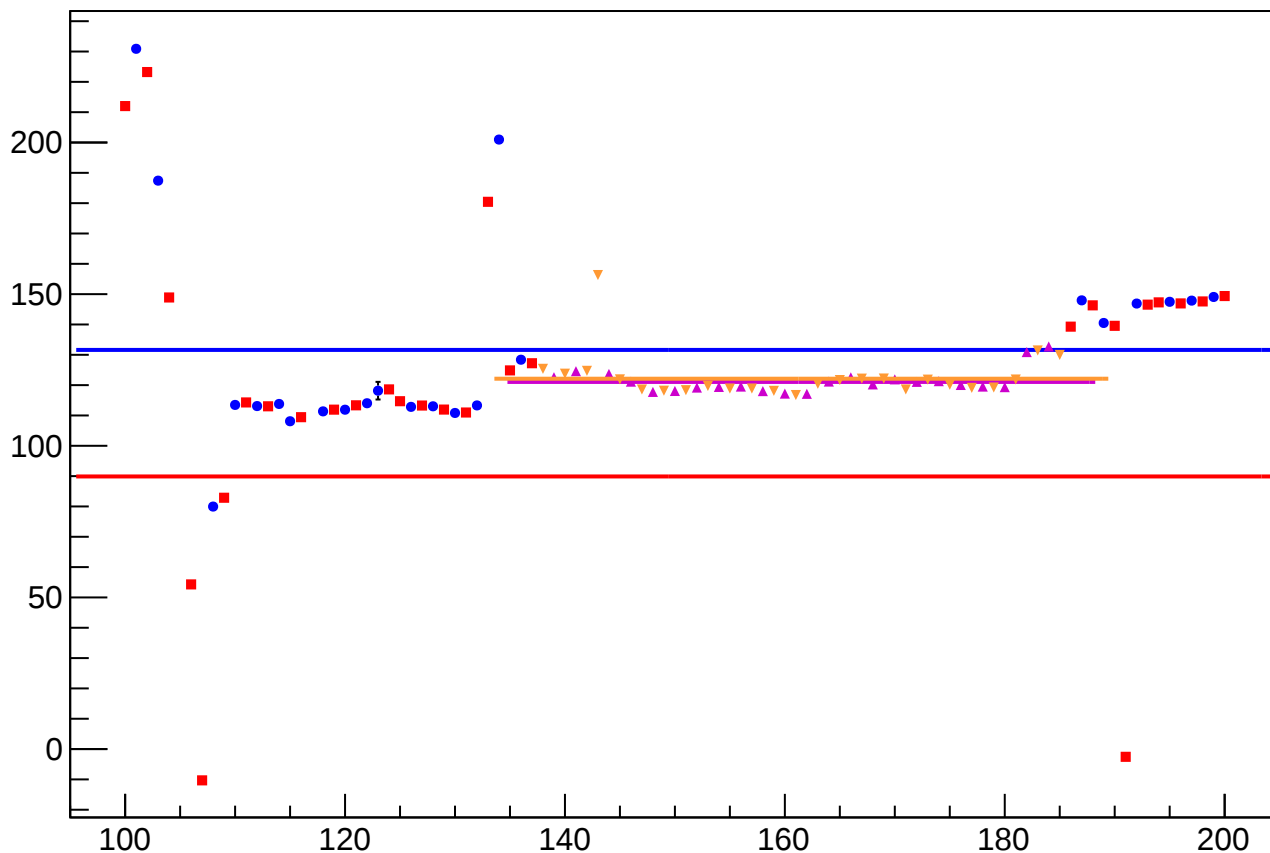
Right: -86.423 ± 0.989 χ^2/NDF : 2529.8/50

In: -83.202 ± 0.740 χ^2/NDF : 1730.1/45

Out: -76.986 ± 0.699 χ^2/NDF : 2290.4/52

All: -79.917 ± 0.508 χ^2/NDF : 4057.8/98

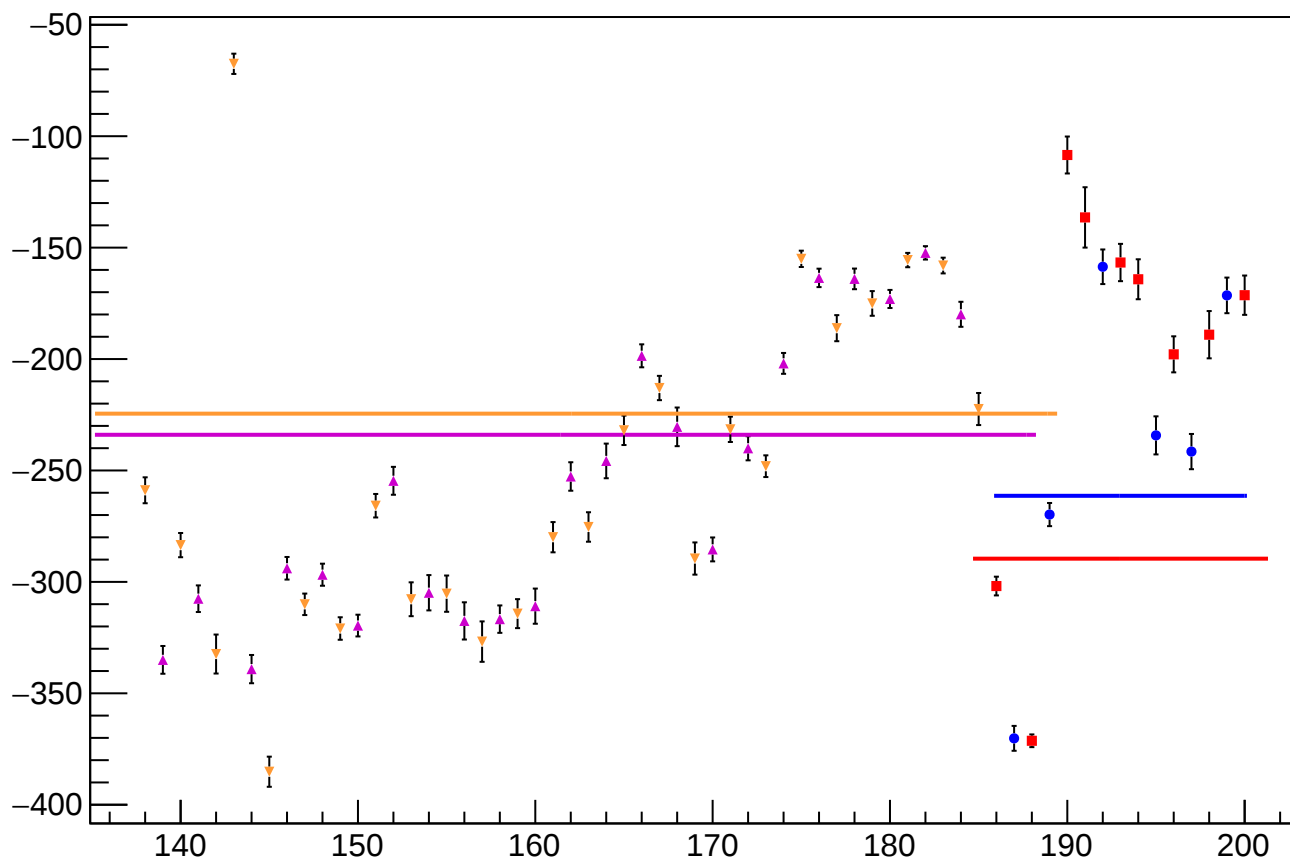
reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 131.612 $\pm$ 0.079 χ^2 /NDF: 198275.2/22
 Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF: 30480.7/24
 Right Out: 89.890 $\pm$ 0.064 χ^2 /NDF: 1083421.7/27
 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: 106.408 $\pm$ 0.050 χ^2 /NDF: 1449752.3/50
 In: 123.182 $\pm$ 0.036 χ^2 /NDF: 220429.7/45
 Out: 113.265 $\pm$ 0.034 χ^2 /NDF: 1297606.6/52
 All: 117.945 $\pm$ 0.024 χ^2 /NDF: 1559234.3/98

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -261.366+/-2.762 χ^2/NDF : 700.8/5

Left Out: -224.501+/-1.079 χ^2/NDF : 4870.6/24

Right Out: -289.577+/-1.949 χ^2/NDF : 2280.3/8

Left In: -233.988+/-1.109 χ^2/NDF : 3538.4/22

Left: -229.116+/-0.773 χ^2/NDF : 8446.6/47

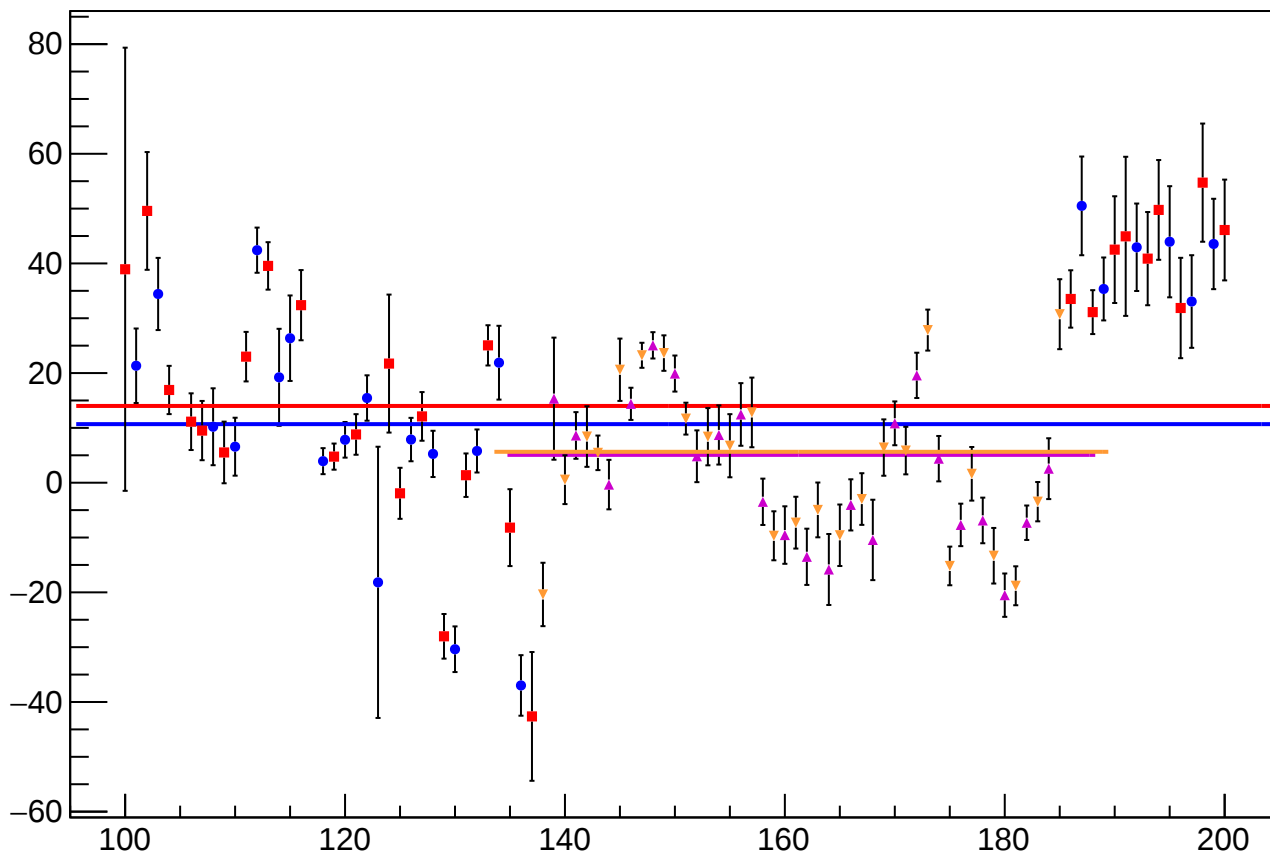
Right: -280.201+/-1.593 χ^2/NDF : 3050.7/14

In: -237.785+/-1.029 χ^2/NDF : 4323.8/28

Out: -239.768+/-0.944 χ^2/NDF : 8004.1/33

All: -238.862+/-0.696 χ^2/NDF : 12329.9/62

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.684 ± 1.045 χ^2/NDF : 358.2/22

Left Out: 5.638 ± 0.828 χ^2/NDF : 313.6/24

Right Out: 14.002 ± 0.980 χ^2/NDF : 351.5/27

Left In: 5.077 ± 0.869 χ^2/NDF : 239.7/22

Left: 5.371 ± 0.599 χ^2/NDF : 553.6/47

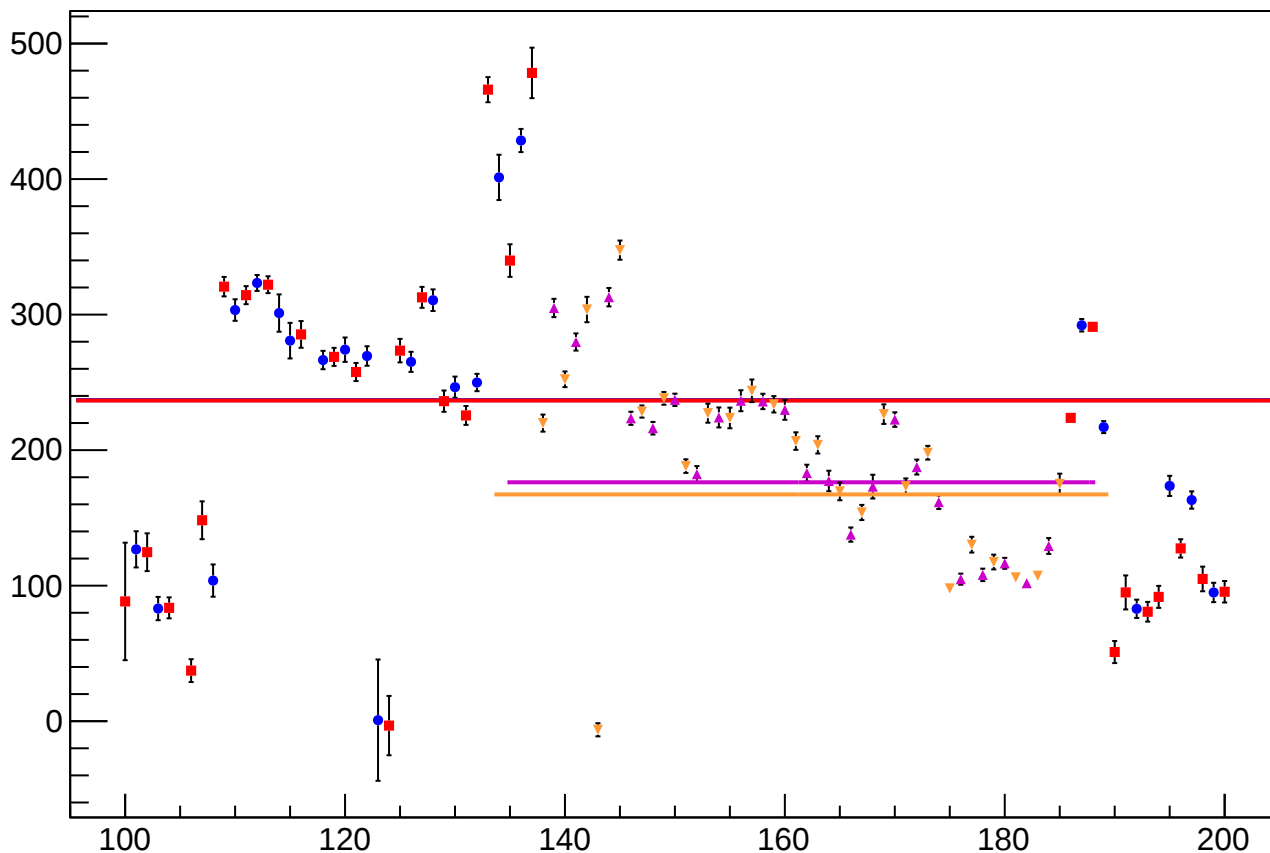
Right: 12.449 ± 0.715 χ^2/NDF : 715.1/50

In: 7.369 ± 0.668 χ^2/NDF : 614.9/45

Out: 9.122 ± 0.632 χ^2/NDF : 707.6/52

All: 8.293 ± 0.459 χ^2/NDF : 1326.2/98

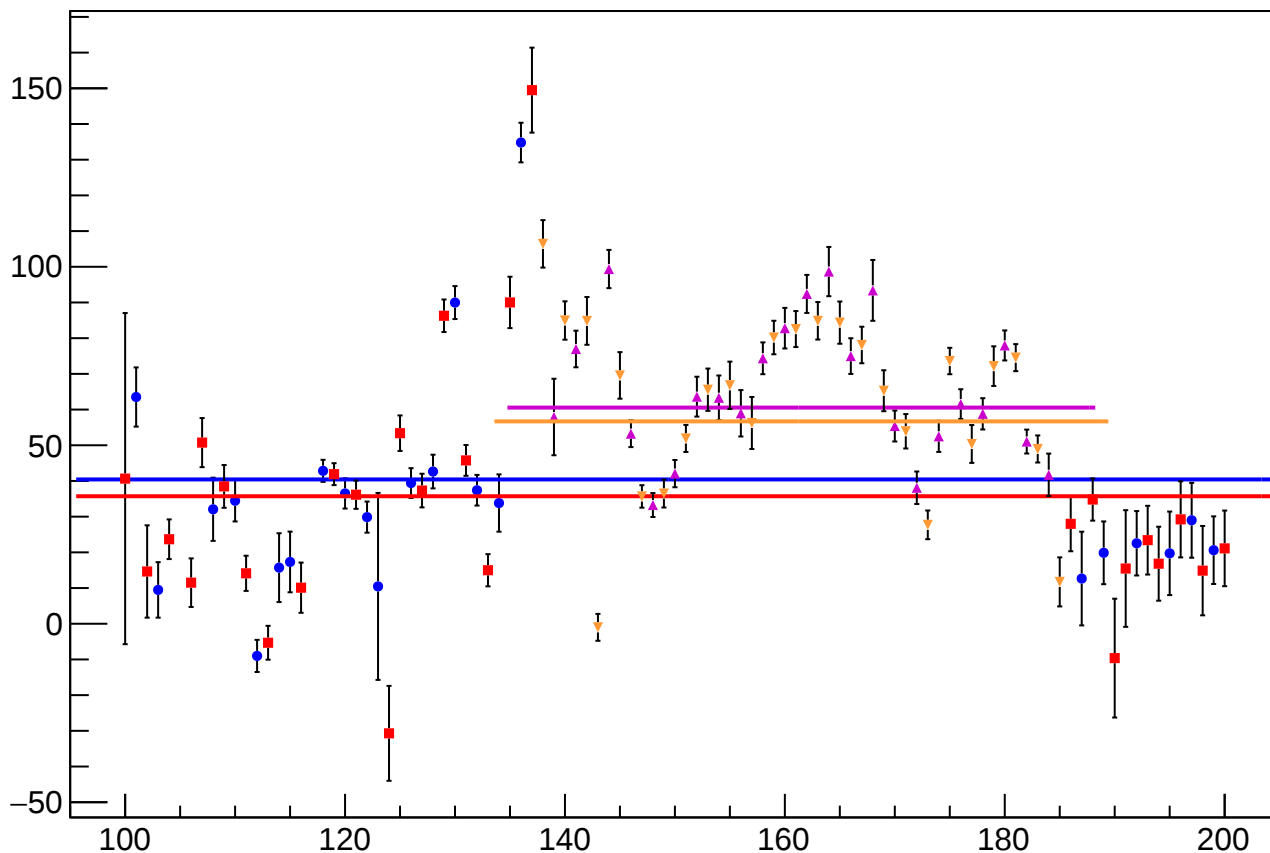
reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 236.879 ± 1.561 $\chi^2/\text{NDF}: 2906.5/22$
 Left Out: 167.327 ± 1.082 $\chi^2/\text{NDF}: 4454.5/24$
 Right Out: 236.624 ± 1.252 $\chi^2/\text{NDF}: 5459.7/27$
 Left In: 176.272 ± 1.106 $\chi^2/\text{NDF}: 3169.5/22$

Left: 171.704 ± 0.774 $\chi^2/\text{NDF}: 7657.4/47$
 Right: 236.724 ± 0.977 $\chi^2/\text{NDF}: 8366.2/50$
 In: 196.526 ± 0.902 $\chi^2/\text{NDF}: 7080.1/45$
 Out: 196.960 ± 0.819 $\chi^2/\text{NDF}: 11666.5/52$
 All: 196.764 ± 0.606 $\chi^2/\text{NDF}: 18746.7/98$

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 40.426 $\pm$ 1.220 χ^2 /NDF: 597.7/22

Left Out: 56.695 $\pm$ 0.952 χ^2 /NDF:690.4/24

Right Out: 35.719 $\pm$ 1.154 χ^2 /NDF: 492.1/27

Left In: 60.555 $\pm$ 0.990 χ^2 /NDF:335.6/22

Left: 58.548 $\pm$ 0.686 χ^2 /NDF: 1034.0/47

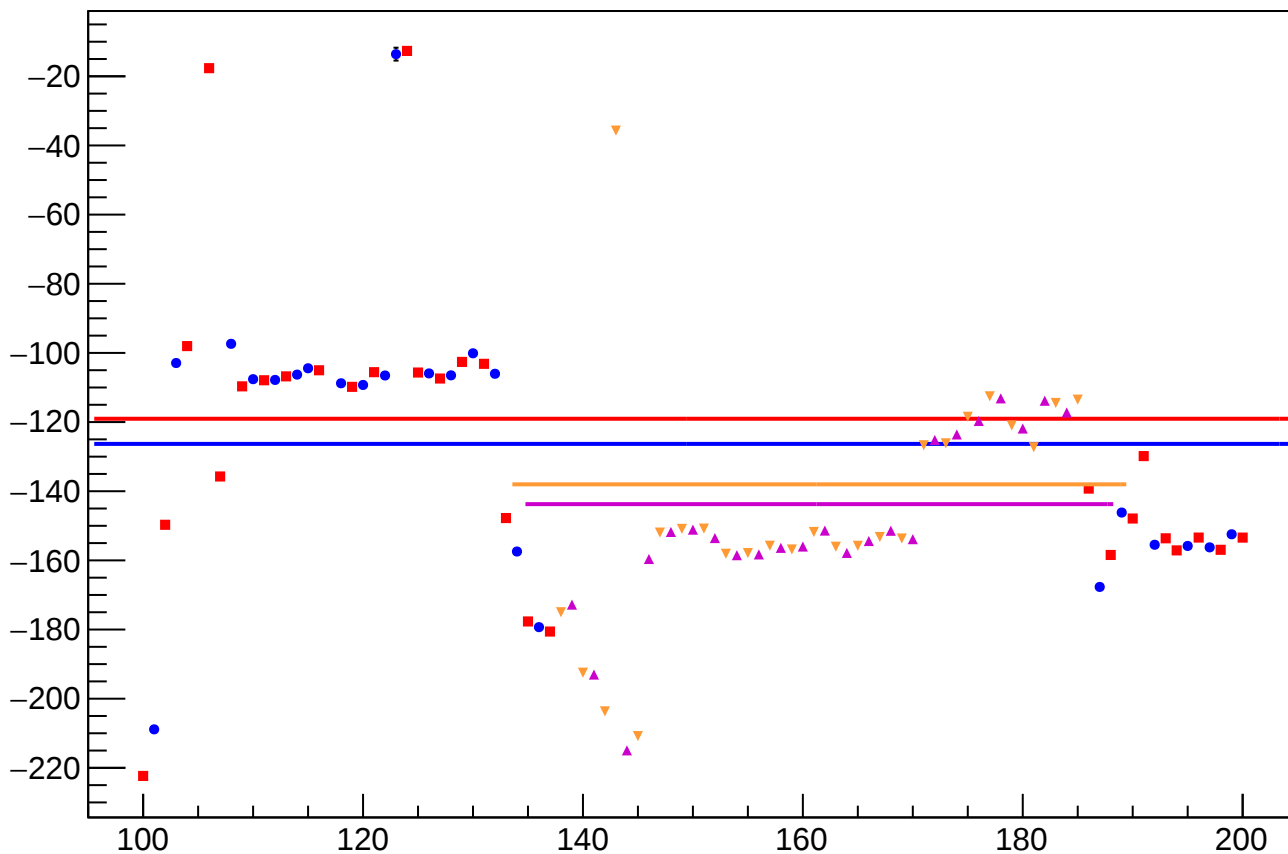
Right: 37.942 $\pm$ 0.838 χ^2 /NDF: 1097.7/50

In: 52.559 $\pm$ 0.769 χ^2 /NDF:1097.5/45

Out: 48.204 $\pm$ 0.734 χ^2 /NDF:1379.2/52

All: 50.282 $\pm$ 0.531 χ^2 /NDF: 2493.5/98

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -126.313 $\pm$ 0.069 χ^2/NDF : 193627.5/22

Left Out: -138.008 $\pm$ 0.045 χ^2/NDF : 565767.2/24

Right Out: -119.039 $\pm$ 0.062 χ^2/NDF : 443966.4/27

Left In: -143.735 $\pm$ 0.046 χ^2/NDF : 258408.3/22

Left: -140.811 $\pm$ 0.032 χ^2/NDF : 832055.2/47

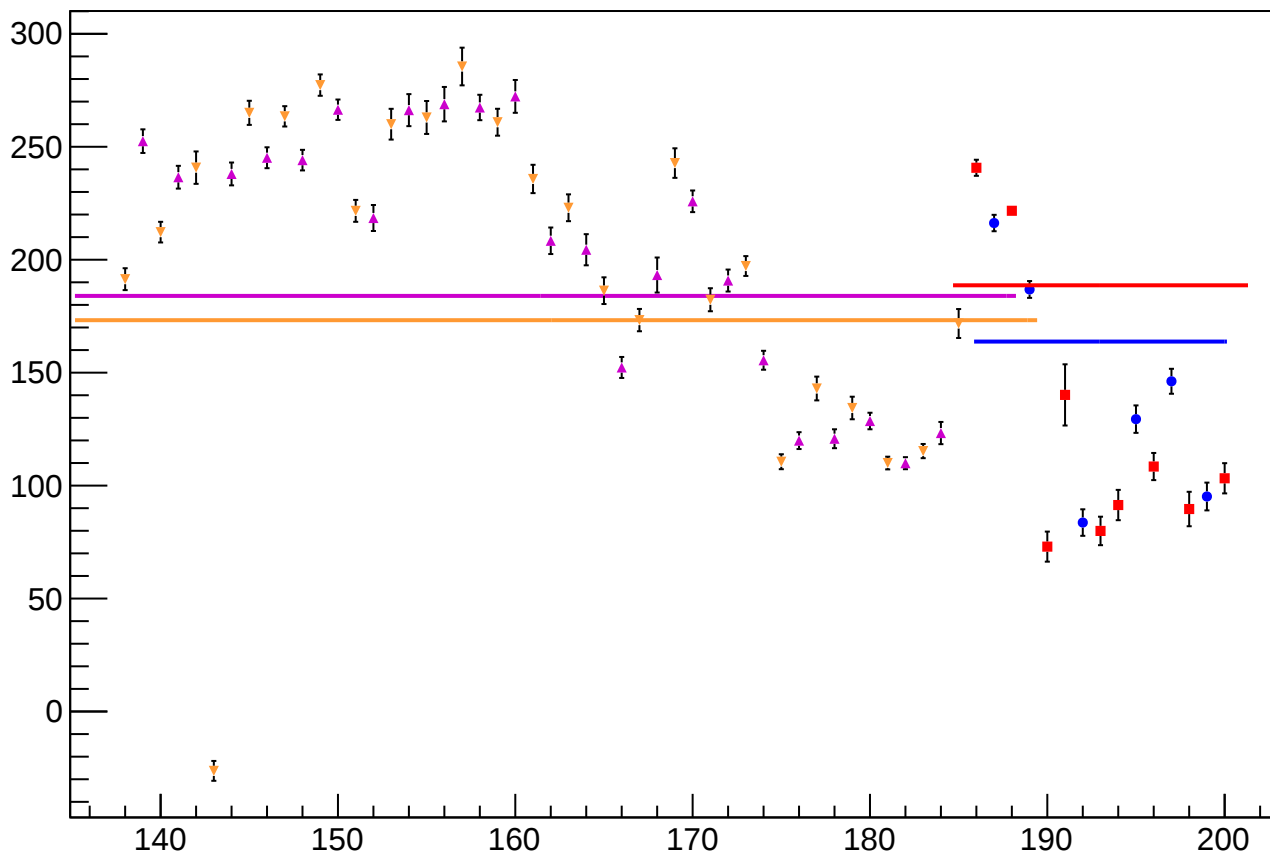
Right: -122.292 $\pm$ 0.046 χ^2/NDF : 643798.8/50

In: -138.322 $\pm$ 0.038 χ^2/NDF : 496415.6/45

Out: -131.405 $\pm$ 0.036 χ^2/NDF : 1071237.8/52

All: -134.694 $\pm$ 0.026 χ^2/NDF : 1584784.6/98

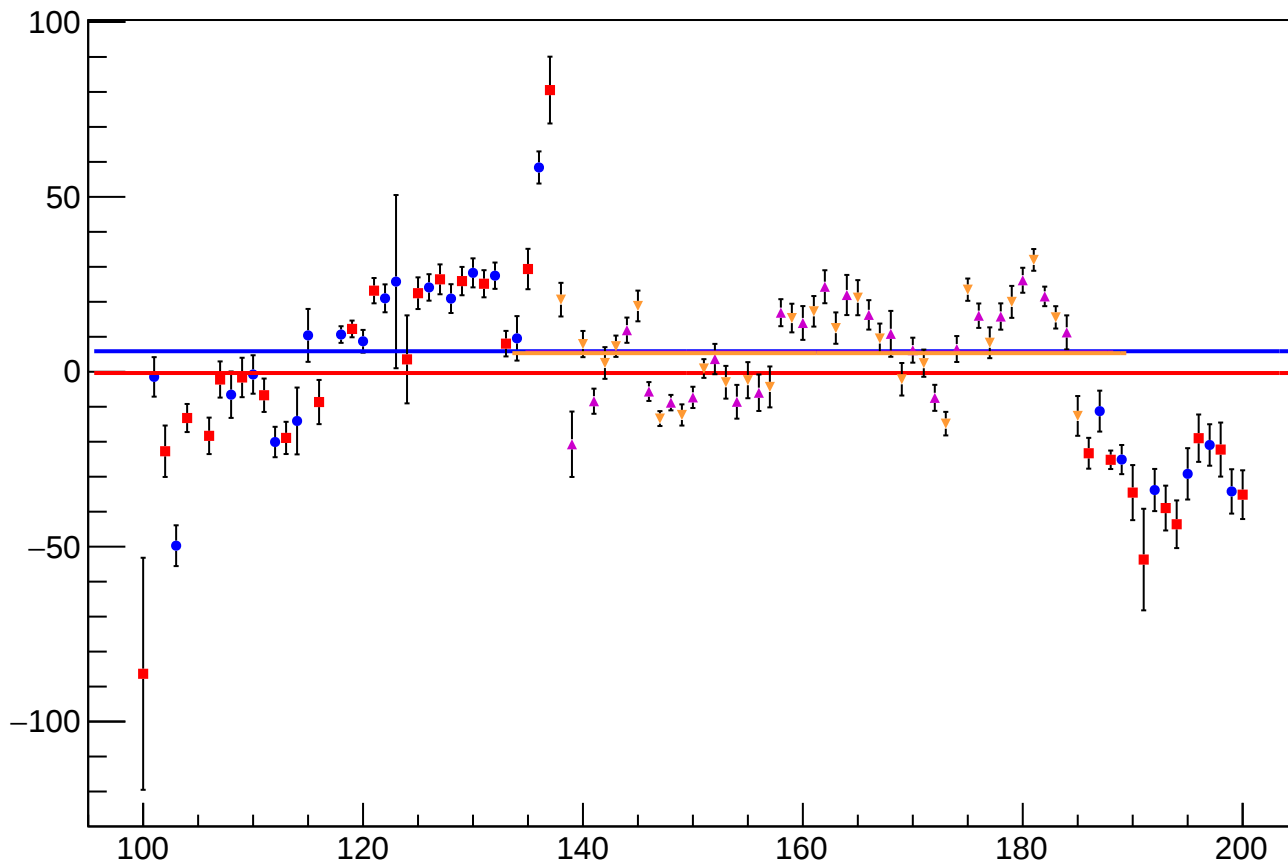
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 163.765 $\pm$ 1.948 χ^2 /NDF: 600.3/5
 Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF: 5846.0/24
 Right Out: 188.676 $\pm$ 1.401 χ^2 /NDF: 1859.5/8
 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: 180.186 $\pm$ 1.138 χ^2 /NDF: 2567.5/14
 In: 179.829 $\pm$ 0.883 χ^2 /NDF: 4299.5/28
 Out: 178.204 $\pm$ 0.795 χ^2 /NDF: 7787.8/33
 All: 178.931 $\pm$ 0.591 χ^2 /NDF: 12089.2/62

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.871 ± 0.976 χ^2/NDF : 577.9/22

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -0.358 ± 0.902 χ^2/NDF : 646.8/27

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

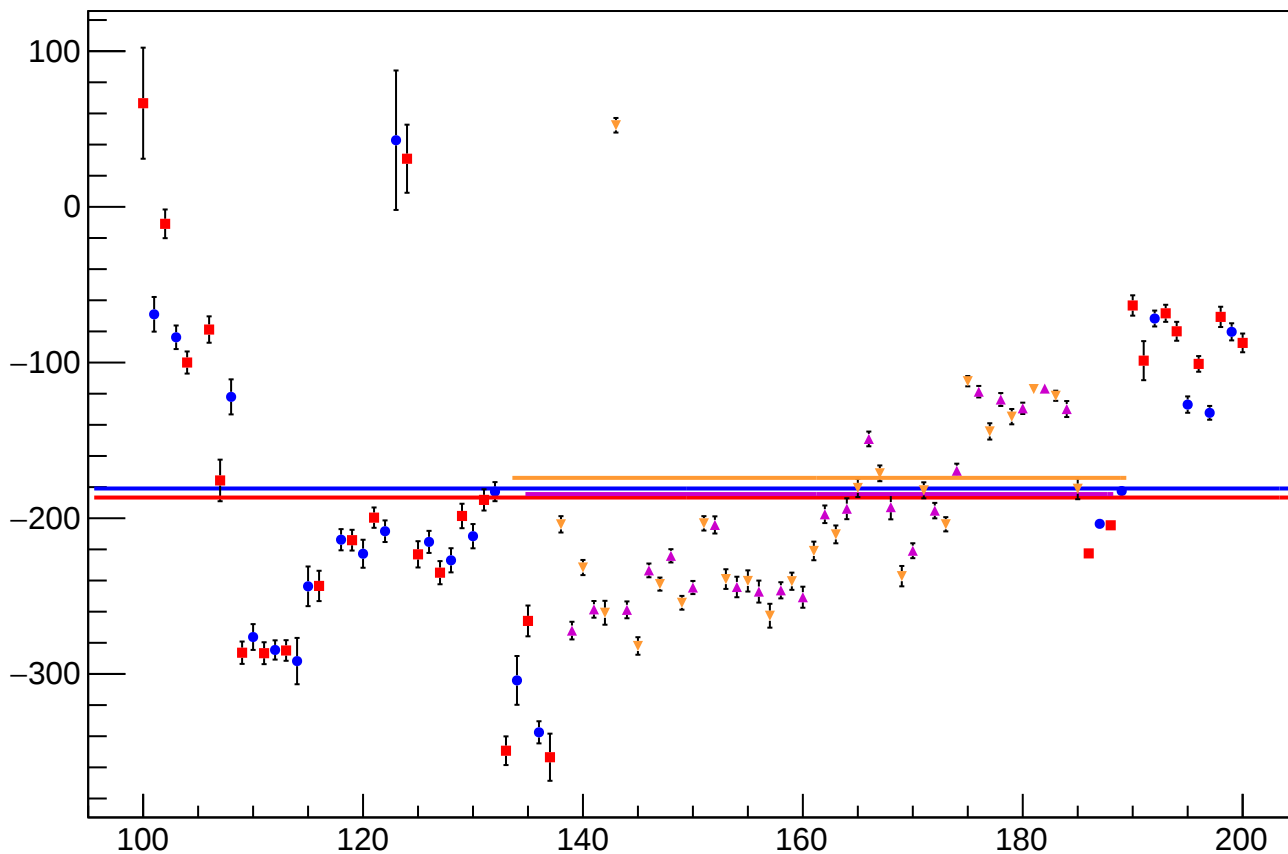
Right: 2.511 ± 0.662 χ^2/NDF : 1246.7/50

In: 5.661 ± 0.610 χ^2/NDF : 834.3/45

Out: 3.010 ± 0.575 χ^2/NDF : 1015.9/52

All: 4.258 ± 0.418 χ^2/NDF : 1860.2/98

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -180.883 ± 1.272 $\chi^2/\text{NDF}: 2569.3/22$

Left Out: -174.061 ± 0.971 $\chi^2/\text{NDF}: 5443.3/24$

Right Out: -186.693 ± 0.991 $\chi^2/\text{NDF}: 4417.0/27$

Left In: -184.456 ± 0.991 $\chi^2/\text{NDF}: 3051.6/22$

Left: -179.154 ± 0.693 $\chi^2/\text{NDF}: 8551.0/47$

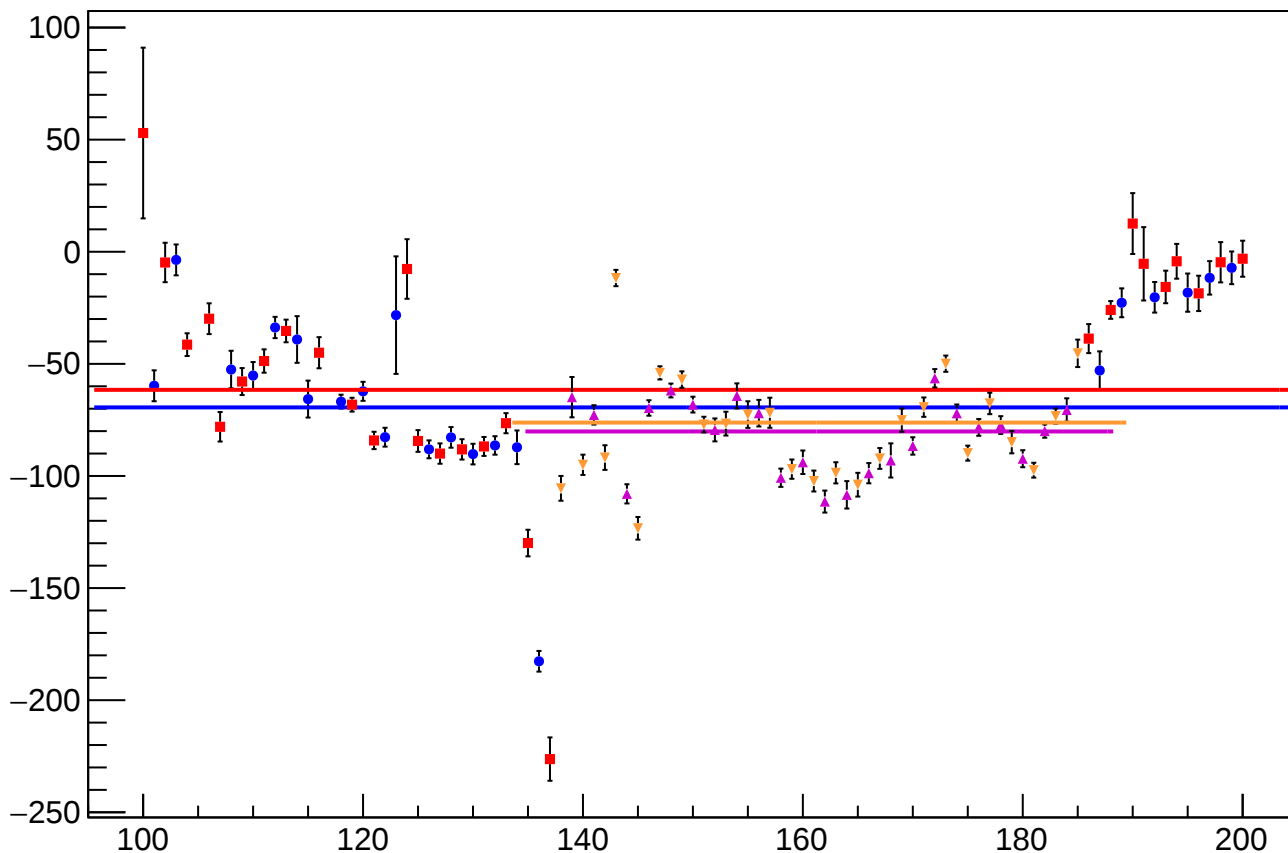
Right: -184.500 ± 0.782 $\chi^2/\text{NDF}: 6999.2/50$

In: -183.108 ± 0.782 $\chi^2/\text{NDF}: 5625.7/45$

Out: -180.249 ± 0.693 $\chi^2/\text{NDF}: 9943.1/52$

All: -181.508 ± 0.519 $\chi^2/\text{NDF}: 15576.4/98$

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -69.421 ± 1.146 $\chi^2/\text{NDF}: 1136.9/22$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -61.583 ± 1.078 $\chi^2/\text{NDF}: 1106.5/27$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

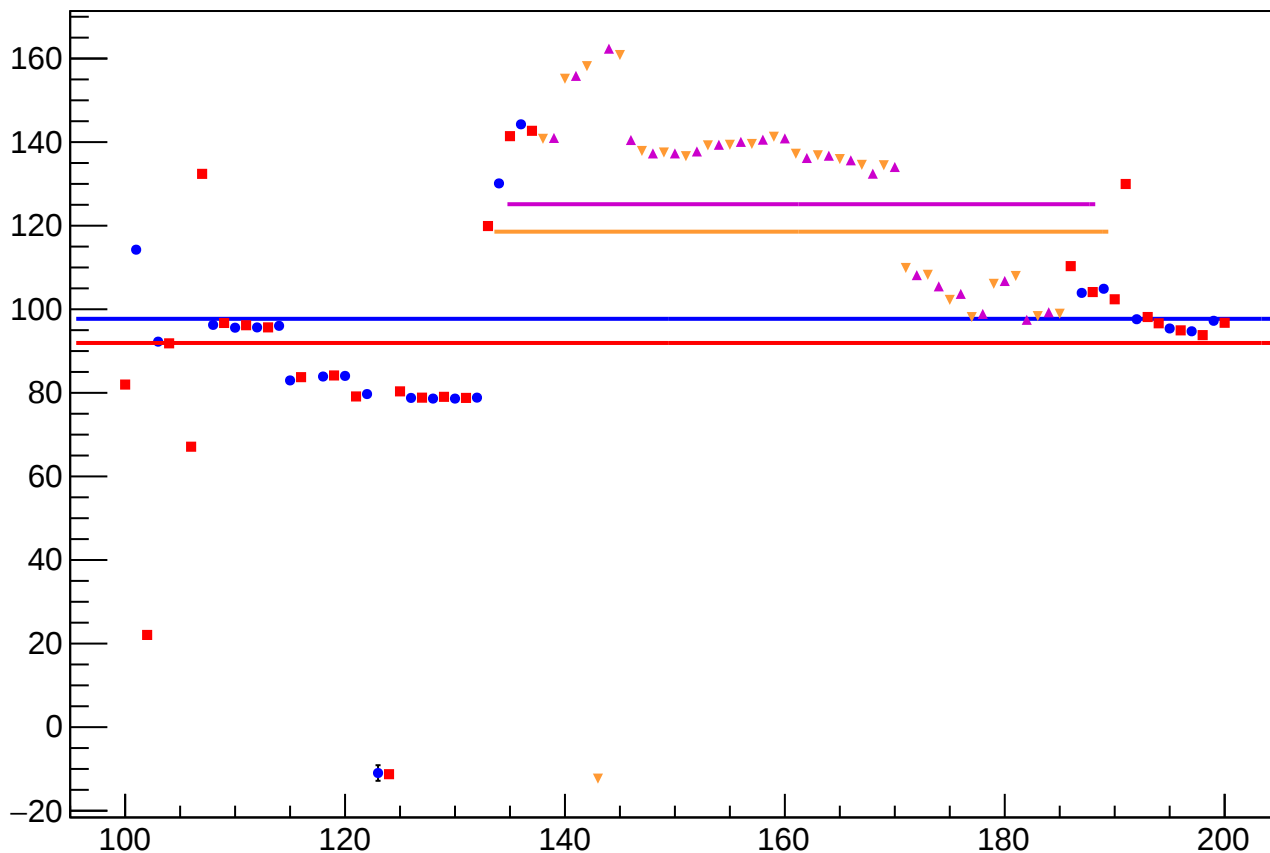
Right: -65.260 ± 0.785 $\chi^2/\text{NDF}: 2268.2/50$

In: -76.120 ± 0.702 $\chi^2/\text{NDF}: 1474.9/45$

Out: -70.524 ± 0.671 $\chi^2/\text{NDF}: 2019.9/52$

All: -73.193 ± 0.485 $\chi^2/\text{NDF}: 3528.0/98$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 97.714 $\pm$ 0.061 χ^2 /NDF: 94847.2/22

Left Out: 118.569 $\pm$ 0.040 χ^2 /NDF: 728689.7/24

Right Out: 91.935 $\pm$ 0.054 χ^2 /NDF: 240300.9/27

Left In: 125.139 $\pm$ 0.041 χ^2 /NDF: 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2 /NDF: 962526.8/47

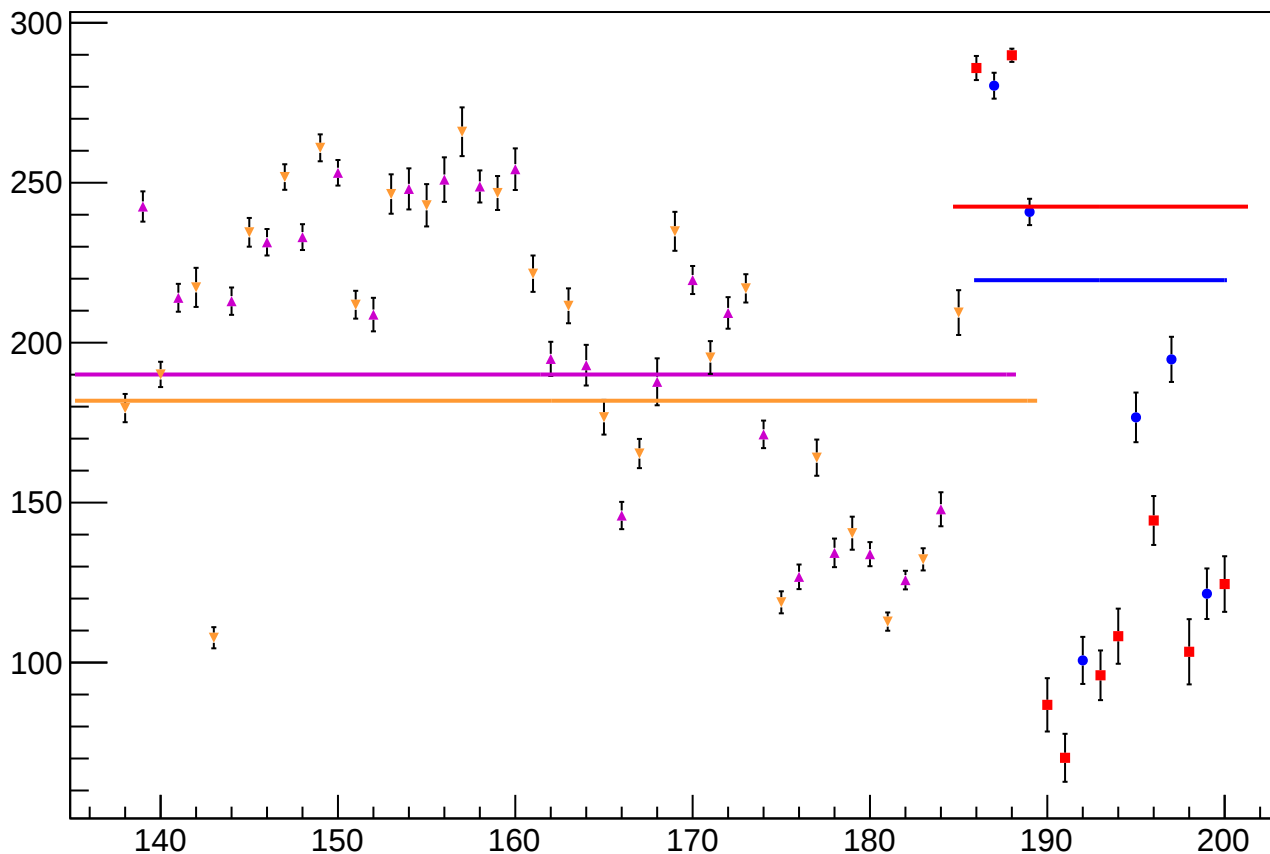
Right: 94.499 $\pm$ 0.040 χ^2 /NDF: 340214.3/50

In: 116.438 $\pm$ 0.034 χ^2 /NDF: 455798.1/45

Out: 109.001 $\pm$ 0.032 χ^2 /NDF: 1124398.9/52

All: 112.530 $\pm$ 0.023 χ^2 /NDF: 1605170.1/98

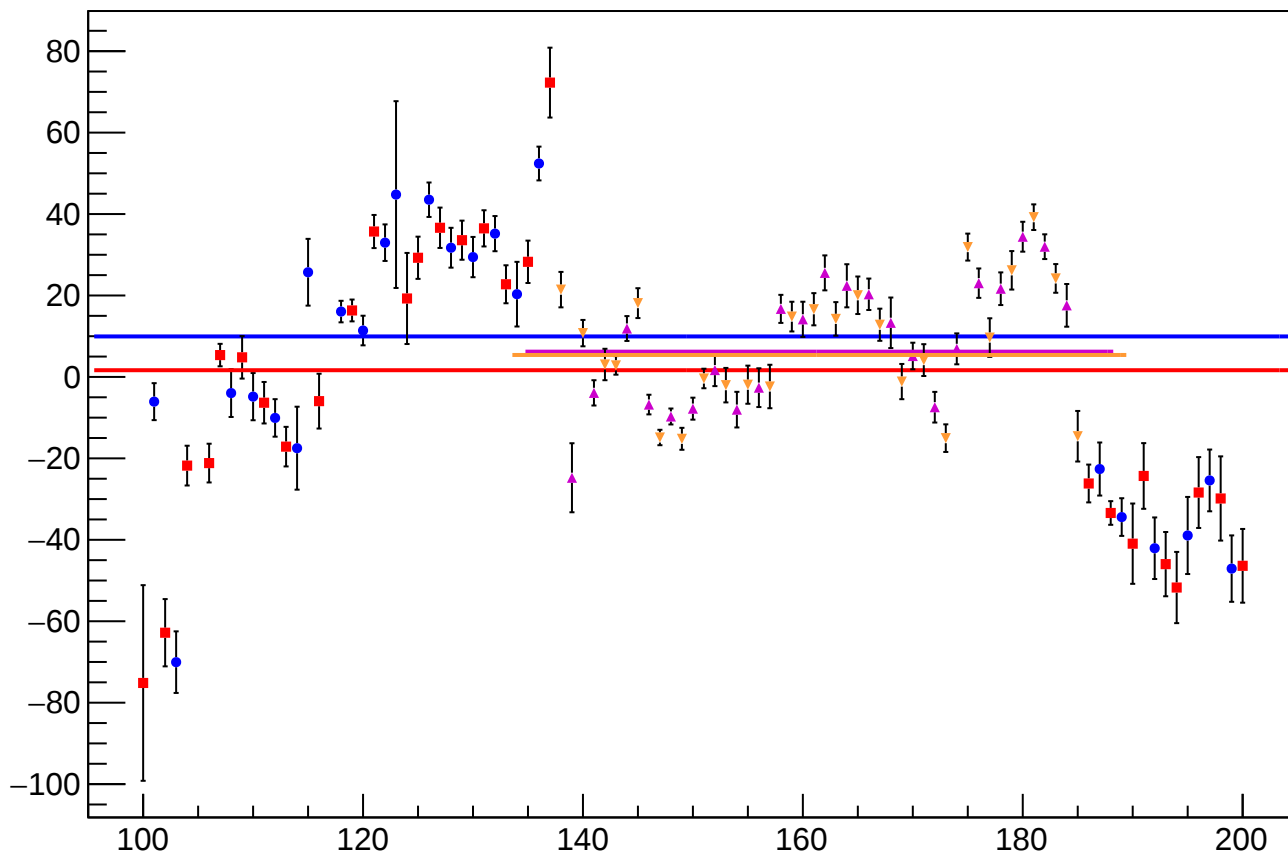
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 219.532 ± 2.286 $\chi^2/\text{NDF}: 710.2/5$
 Left Out: 181.850 ± 0.913 $\chi^2/\text{NDF}: 3303.4/24$
 Right Out: 242.527 ± 1.569 $\chi^2/\text{NDF}: 2666.5/8$
 Left In: 190.048 ± 0.953 $\chi^2/\text{NDF}: 2438.4/22$

Left: 185.775 ± 0.659 $\chi^2/\text{NDF}: 5780.3/47$
 Right: 235.168 ± 1.293 $\chi^2/\text{NDF}: 3445.5/14$
 In: 194.411 ± 0.880 $\chi^2/\text{NDF}: 3290.3/28$
 Out: 197.215 ± 0.789 $\chi^2/\text{NDF}: 7087.4/33$
 All: 195.964 ± 0.587 $\chi^2/\text{NDF}: 10383.3/62$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.945 ± 1.076 χ^2/NDF : 701.1/22

Left Out: 5.394 ± 0.688 χ^2/NDF : 526.5/24

Right Out: 1.649 ± 0.952 χ^2/NDF : 872.5/27

Left In: 6.206 ± 0.732 χ^2/NDF : 407.5/22

Left: 5.775 ± 0.501 χ^2/NDF : 934.7/47

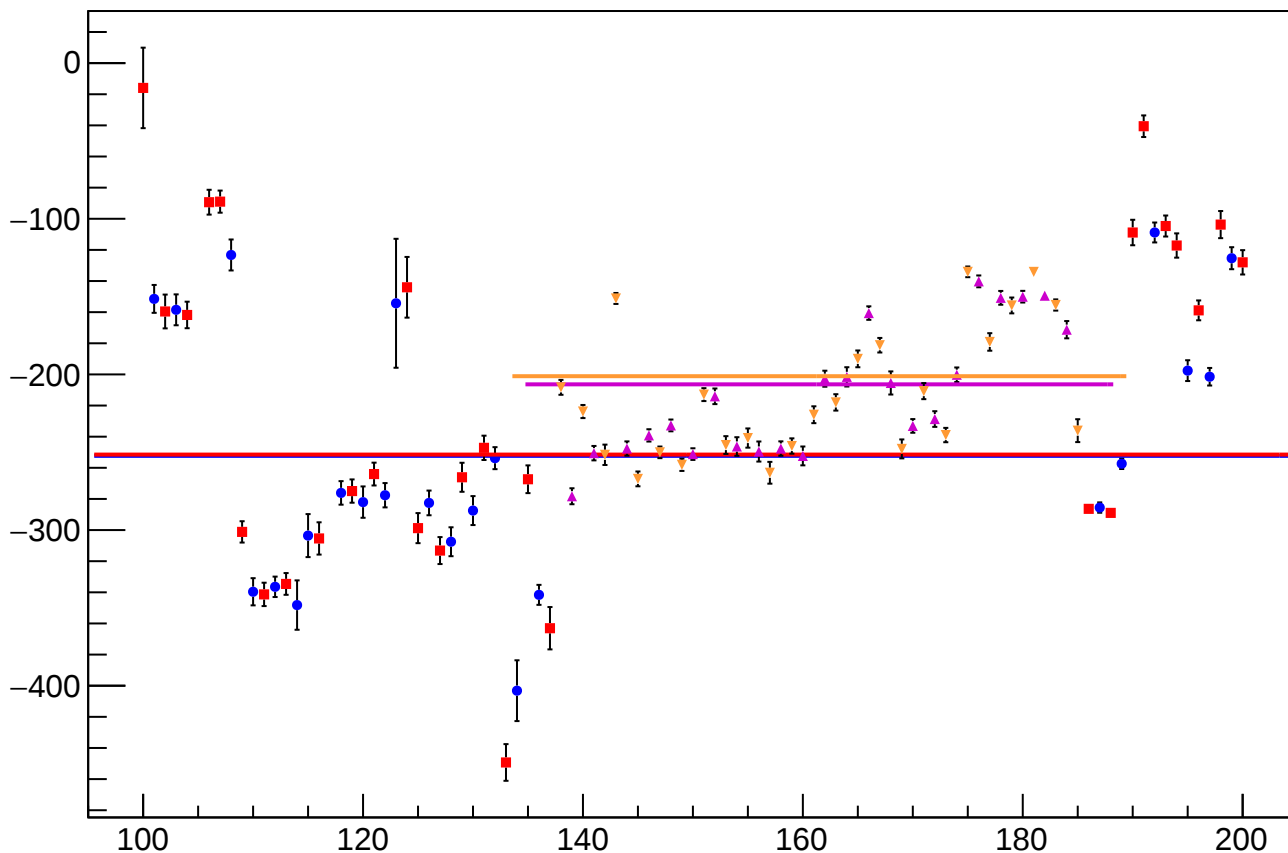
Right: 5.291 ± 0.713 χ^2/NDF : 1607.0/50

In: 7.389 ± 0.605 χ^2/NDF : 1116.9/45

Out: 4.108 ± 0.558 χ^2/NDF : 1409.2/52

All: 5.615 ± 0.410 χ^2/NDF : 2542.0/98

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -252.313 ± 1.439 $\chi^2/\text{NDF}: 2127.4/22$

Left Out: -201.144 ± 0.918 $\chi^2/\text{NDF}: 2488.8/24$

Right Out: -251.505 ± 1.087 $\chi^2/\text{NDF}: 5425.7/27$

Left In: -206.379 ± 0.950 $\chi^2/\text{NDF}: 2111.6/22$

Left: -203.672 ± 0.660 $\chi^2/\text{NDF}: 4616.1/47$

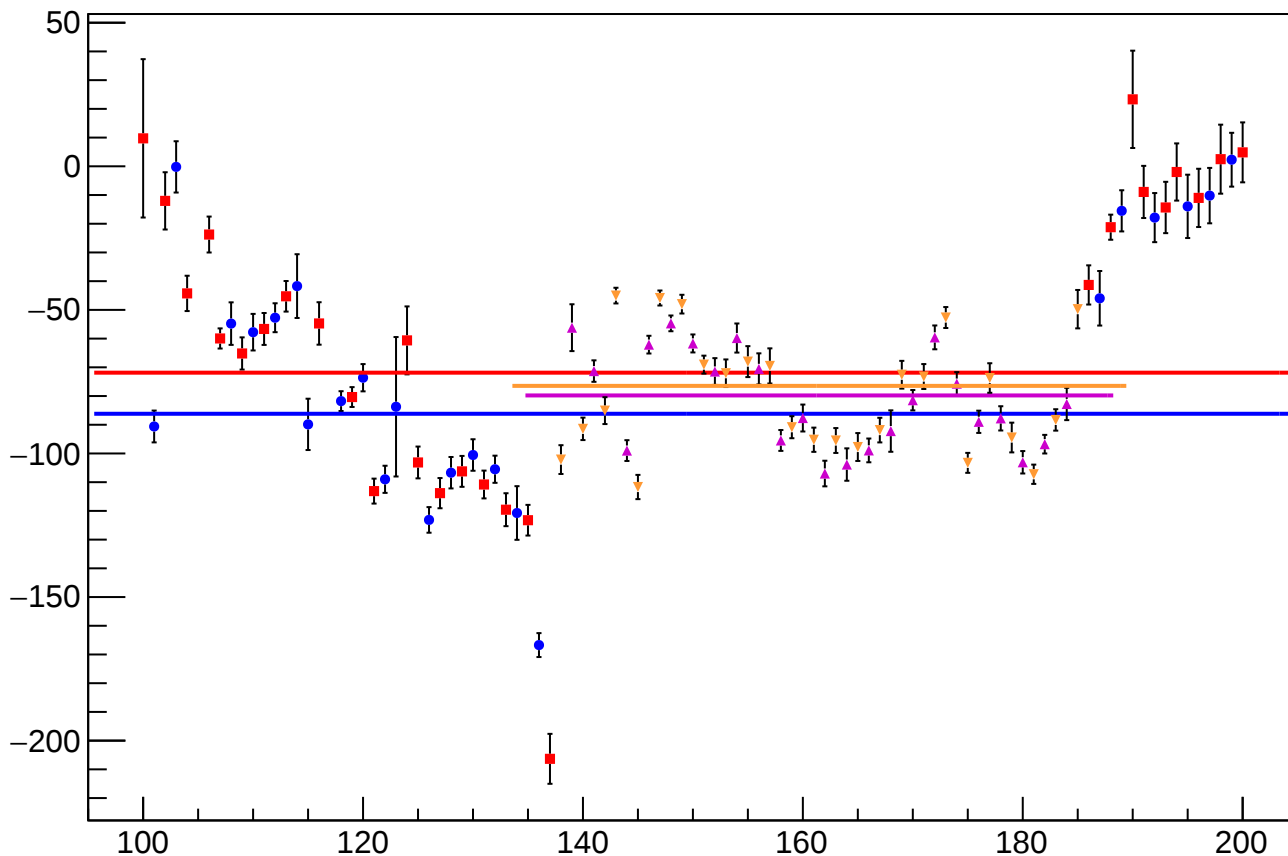
Right: -251.799 ± 0.868 $\chi^2/\text{NDF}: 7553.3/50$

In: -220.316 ± 0.793 $\chi^2/\text{NDF}: 4949.0/45$

Out: -222.094 ± 0.701 $\chi^2/\text{NDF}: 9166.9/52$

All: -221.313 ± 0.525 $\chi^2/\text{NDF}: 14118.7/98$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -86.176 ± 1.261 χ^2/NDF : 1090.6/22

Left Out: -76.460 ± 0.797 χ^2/NDF : 781.3/24

Right Out: -71.863 ± 1.140 χ^2/NDF : 1327.1/27

Left In: -79.792 ± 0.840 χ^2/NDF : 412.3/22

Left: -78.038 ± 0.578 χ^2/NDF : 1201.9/47

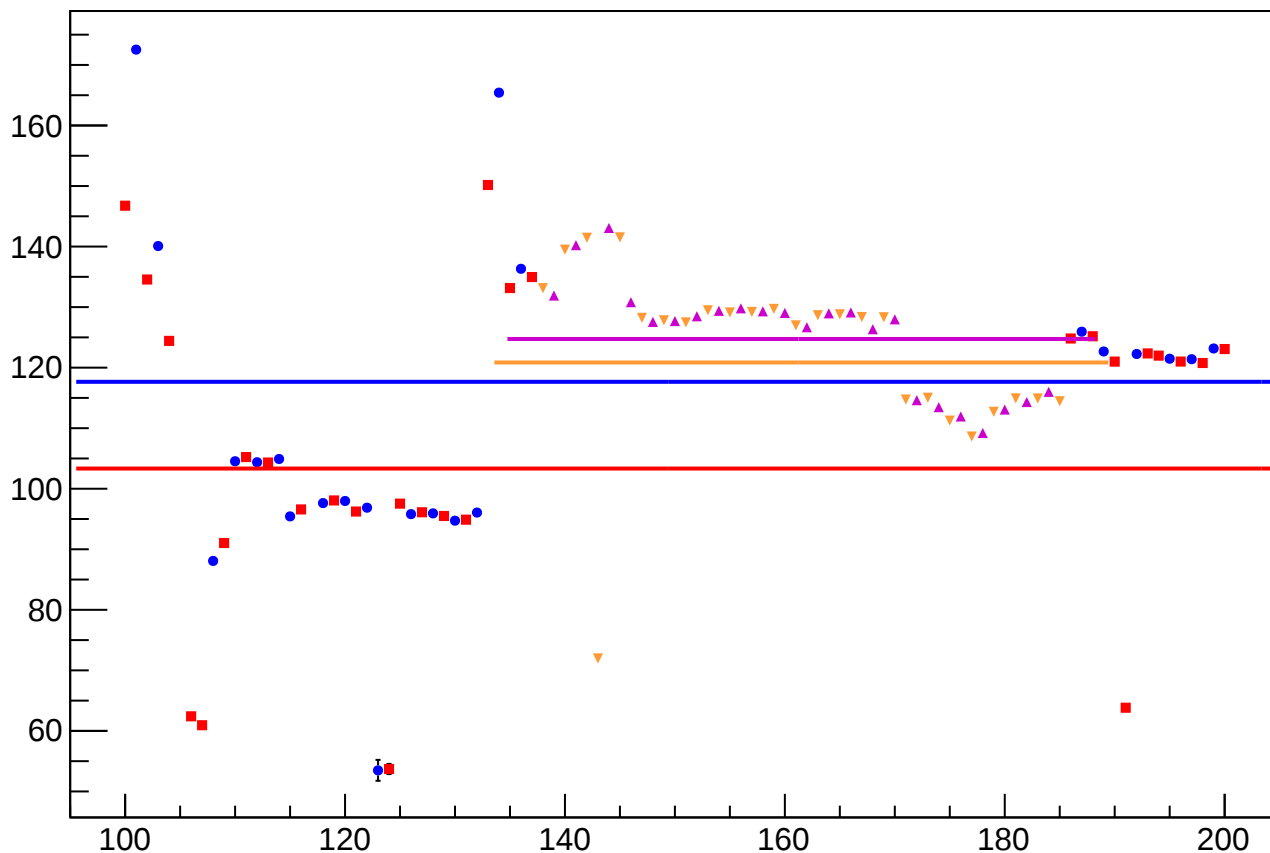
Right: -78.301 ± 0.846 χ^2/NDF : 2488.5/50

In: -81.753 ± 0.699 χ^2/NDF : 1520.6/45

Out: -74.952 ± 0.653 χ^2/NDF : 2119.3/52

All: -78.122 ± 0.477 χ^2/NDF : 3690.5/98

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 117.661 $\pm$ 0.068 χ^2 /NDF: 107511.2/22

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 103.336 $\pm$ 0.057 χ^2 /NDF: 232787.8/27

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

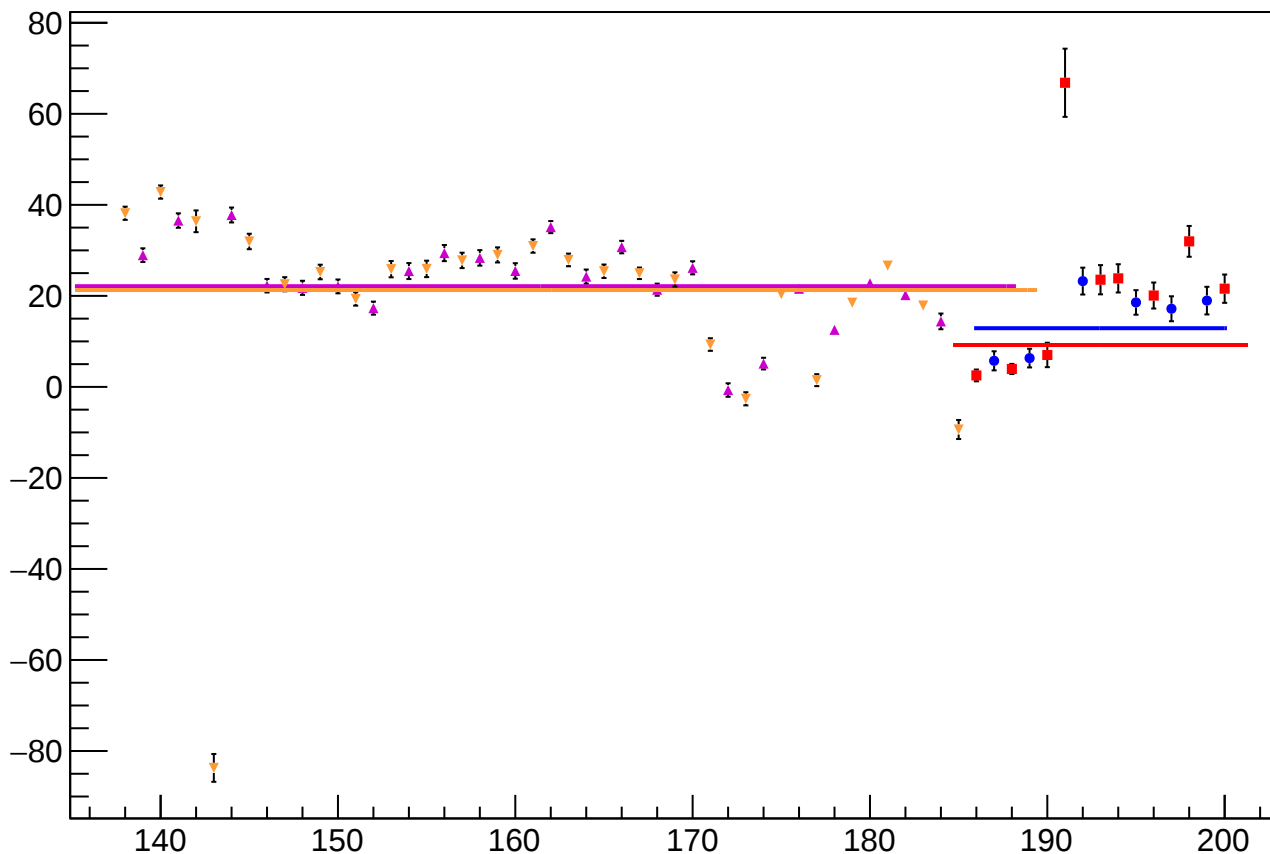
Right: 109.274 $\pm$ 0.044 χ^2 /NDF: 366561.8/50

In: 122.955 $\pm$ 0.034 χ^2 /NDF:167000.1/45

Out: 115.442 $\pm$ 0.032 χ^2 /NDF:481028.6/52

All: 118.934 $\pm$ 0.023 χ^2 /NDF: 674241.7/98

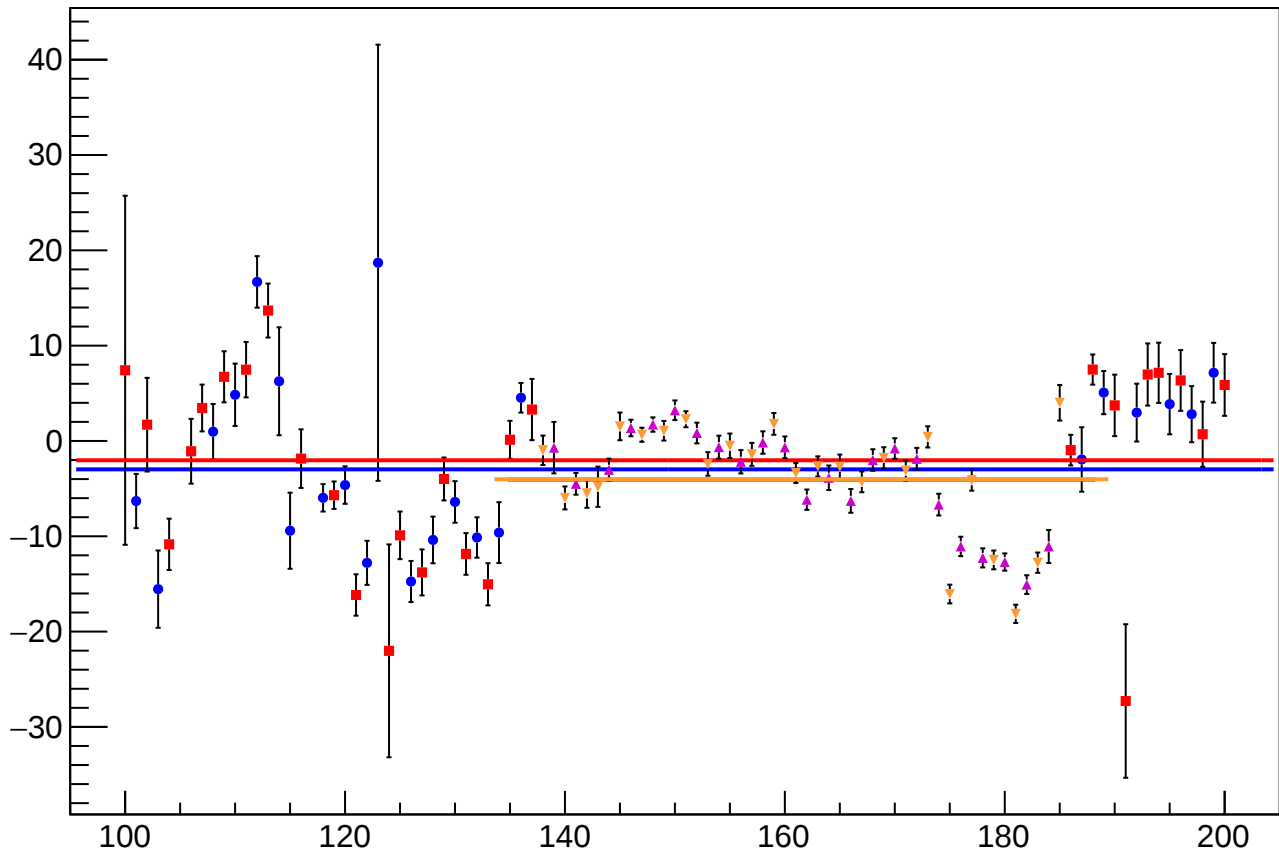
reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.896+/-1.022 χ^2/NDF : 45.0/5
 Left Out: 21.282+/-0.282 χ^2/NDF :2600.5/24
 Right Out: 9.206+/-0.695 χ^2/NDF : 226.5/8
 Left In: 22.127+/-0.285 χ^2/NDF :900.2/22

Left: 21.700+/-0.201 χ^2/NDF : 3505.2/47
 Right: 10.372+/-0.574 χ^2/NDF : 280.5/14
 In: 21.458+/-0.275 χ^2/NDF :1021.0/28
 Out: 19.568+/-0.262 χ^2/NDF :3086.5/33
 All: 20.466+/-0.190 χ^2/NDF : 4132.3/62

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.979 ± 0.528 $\chi^2/\text{NDF}: 216.6/22$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -2.028 ± 0.483 $\chi^2/\text{NDF}: 293.3/27$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

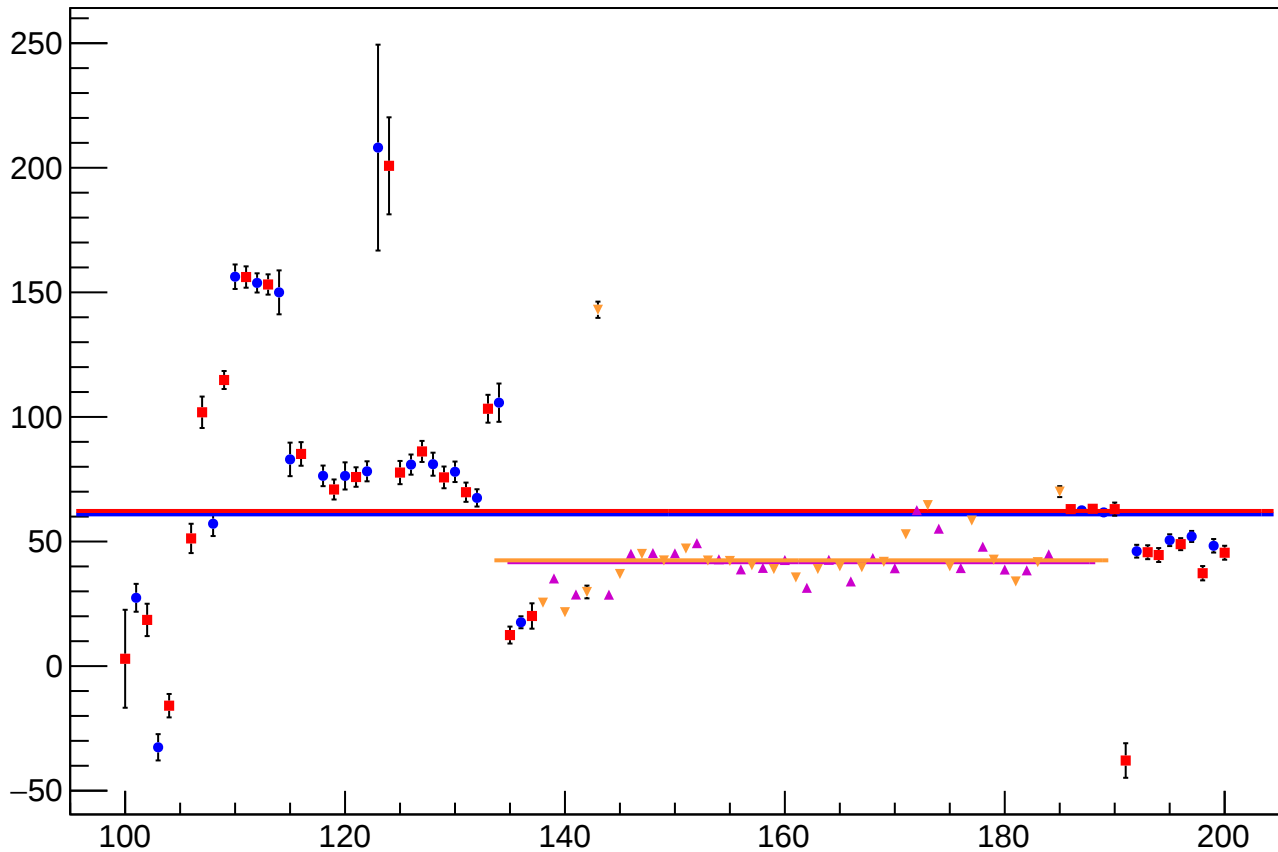
Right: -2.461 ± 0.356 $\chi^2/\text{NDF}: 511.7/50$

In: -3.889 ± 0.209 $\chi^2/\text{NDF}: 797.4/45$

Out: -3.671 ± 0.203 $\chi^2/\text{NDF}: 1041.5/52$

All: -3.776 ± 0.146 $\chi^2/\text{NDF}: 1839.4/98$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 60.895 ± 0.678 χ^2/NDF : 1989.6/22

Left Out: 42.452 ± 0.282 χ^2/NDF : 2016.0/24

Right Out: 62.262 ± 0.508 χ^2/NDF : 2475.0/27

Left In: 41.695 ± 0.284 χ^2/NDF : 630.2/22

Left: 42.077 ± 0.200 χ^2/NDF : 2649.8/47

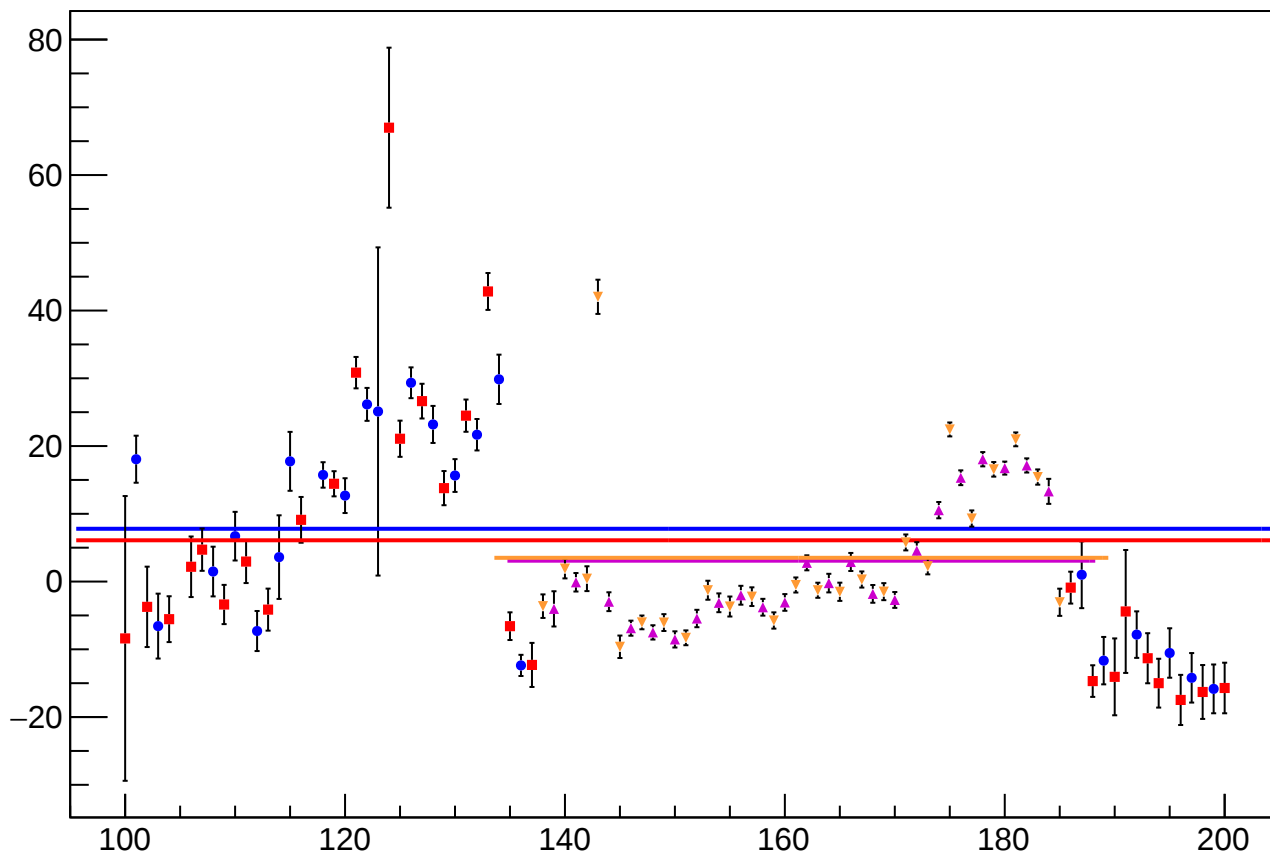
Right: 61.770 ± 0.406 χ^2/NDF : 4467.2/50

In: 44.565 ± 0.262 χ^2/NDF : 3302.4/45

Out: 47.119 ± 0.246 χ^2/NDF : 5654.2/52

All: 45.920 ± 0.180 χ^2/NDF : 9007.0/98

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.791 ± 0.611 χ^2/NDF : 661.2/22

Left Out: 3.505 ± 0.252 χ^2/NDF : 1691.3/24

Right Out: 6.091 ± 0.575 χ^2/NDF : 882.4/27

Left In: 3.081 ± 0.257 χ^2/NDF : 1265.7/22

Left: 3.297 ± 0.180 χ^2/NDF : 2958.4/47

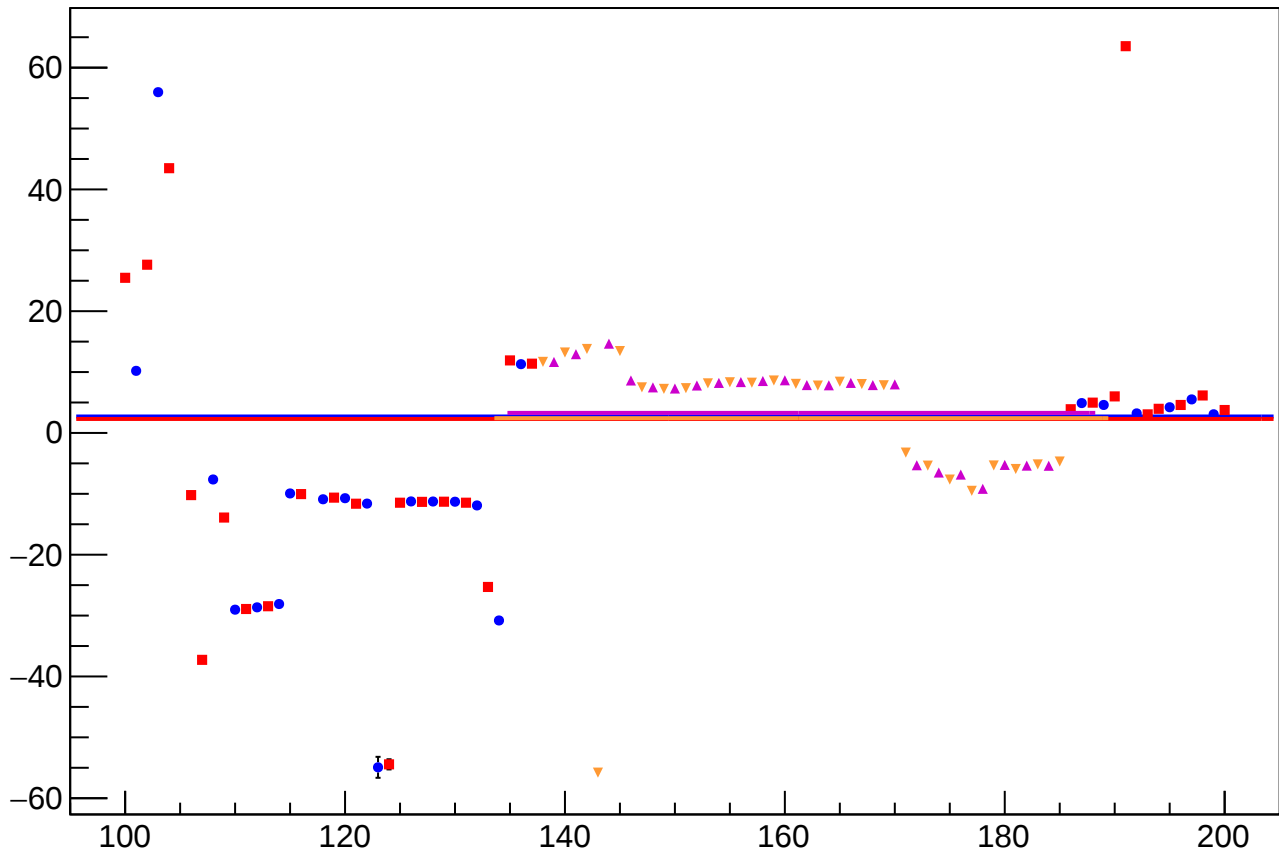
Right: 6.890 ± 0.419 χ^2/NDF : 1547.7/50

In: 3.790 ± 0.237 χ^2/NDF : 1977.5/45

Out: 3.923 ± 0.231 χ^2/NDF : 2590.6/52

All: 3.858 ± 0.165 χ^2/NDF : 4568.3/98

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.700 $\pm$ 0.030 χ^2 /NDF: 359200.5/22

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.299 $\pm$ 0.028 χ^2 /NDF: 430927.1/27

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

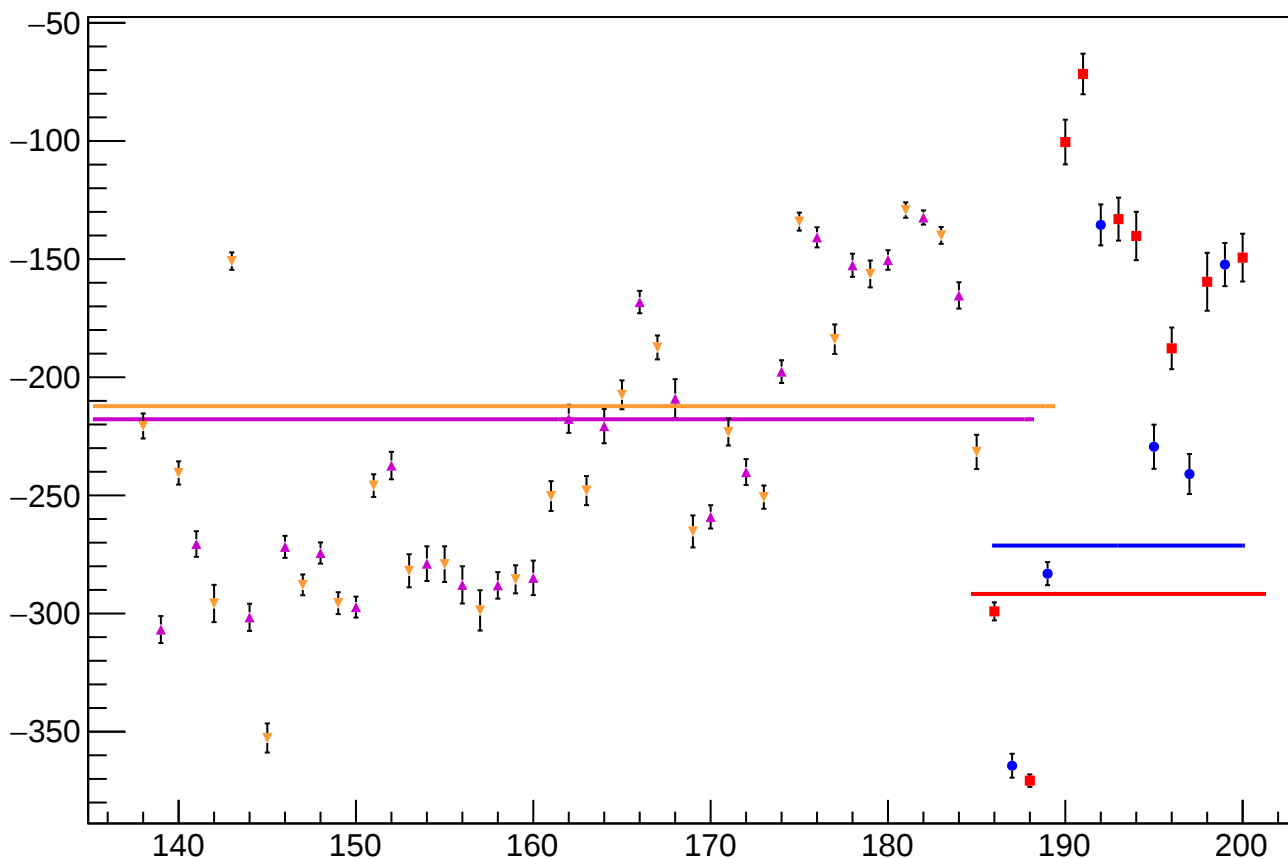
Right: 2.484 $\pm$ 0.020 χ^2 /NDF: 790223.7/50

In: 3.215 $\pm$ 0.011 χ^2 /NDF: 763862.1/45

Out: 2.407 $\pm$ 0.011 χ^2 /NDF: 1047327.1/52

All: 2.804 $\pm$ 0.008 χ^2 /NDF: 1814004.8/98

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -271.238 ± 2.759 $\chi^2/\text{NDF}: 792.0/5$

Left Out: -212.231 ± 1.029 $\chi^2/\text{NDF}: 3875.4/24$

Right Out: -291.708 ± 1.854 $\chi^2/\text{NDF}: 2959.7/8$

Left In: -217.779 ± 1.067 $\chi^2/\text{NDF}: 3448.9/22$

Left: -214.906 ± 0.741 $\chi^2/\text{NDF}: 7338.3/47$

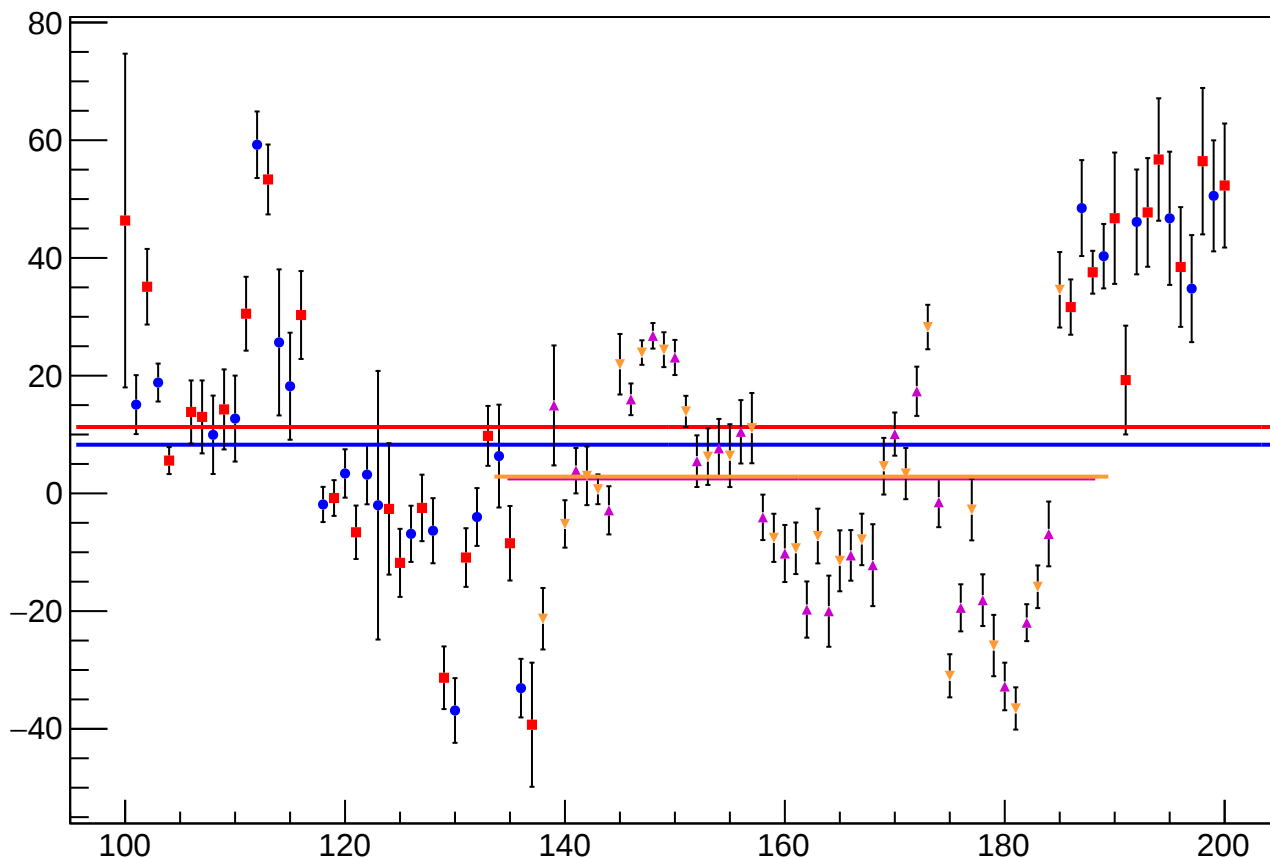
Right: -285.342 ± 1.539 $\chi^2/\text{NDF}: 3789.6/14$

In: -224.732 ± 0.995 $\chi^2/\text{NDF}: 4567.5/28$

Out: -230.966 ± 0.900 $\chi^2/\text{NDF}: 8240.2/33$

All: -228.161 ± 0.667 $\chi^2/\text{NDF}: 12829.3/62$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.269 ± 1.165 $\chi^2/\text{NDF}: 388.3/22$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 11.279 ± 1.036 $\chi^2/\text{NDF}: 411.6/27$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

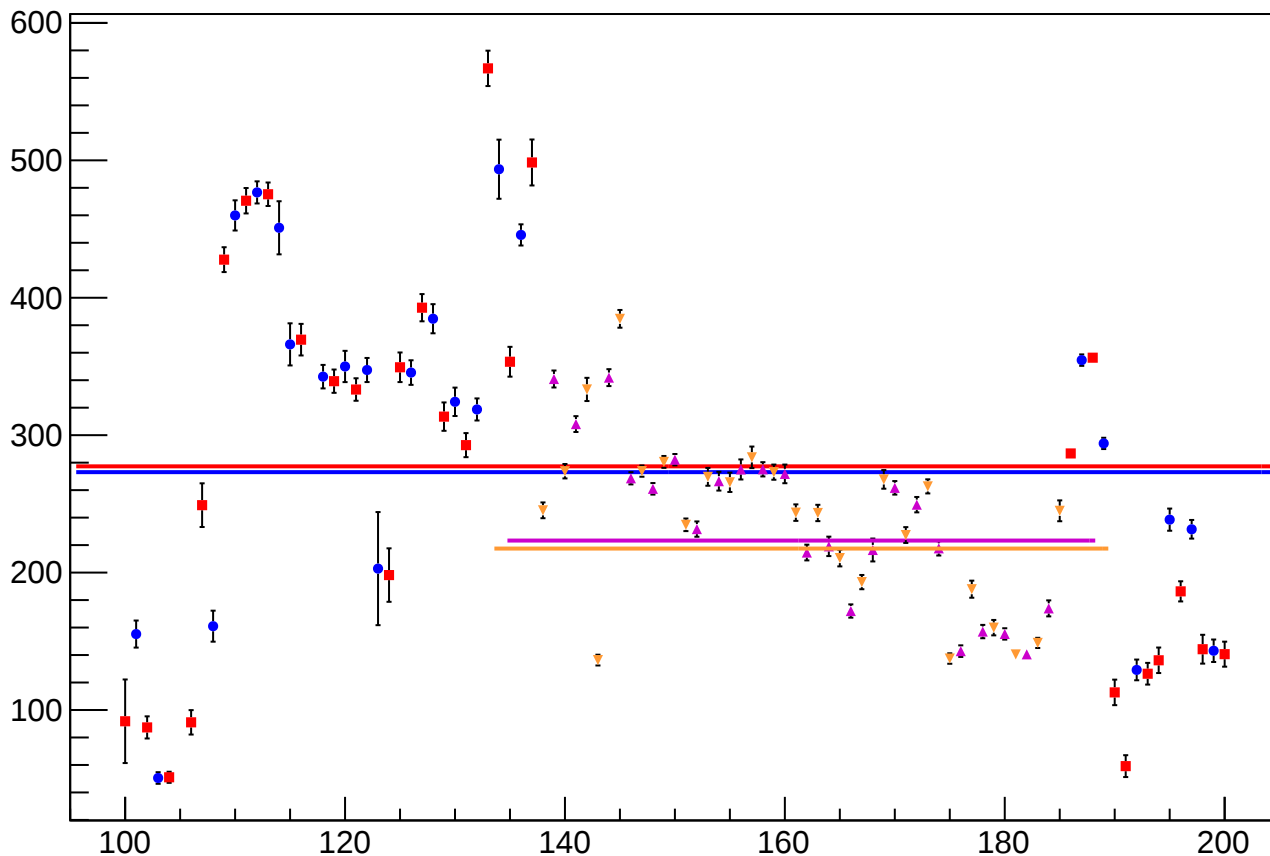
Right: 9.950 ± 0.774 $\chi^2/\text{NDF}: 803.6/50$

In: 4.445 ± 0.672 $\chi^2/\text{NDF}: 878.0/45$

Out: 5.872 ± 0.620 $\chi^2/\text{NDF}: 1036.2/52$

All: 5.215 ± 0.456 $\chi^2/\text{NDF}: 1916.7/98$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 273.089+/-1.598 χ^2/NDF : 6175.1/22

Left Out: 217.484+/-1.032 χ^2/NDF : 3769.5/24

Right Out: 277.312+/-1.231 χ^2/NDF : 10170.2/27

Left In: 223.309+/-1.062 χ^2/NDF : 3378.0/22

Left: 220.314+/-0.740 χ^2/NDF : 7163.0/47

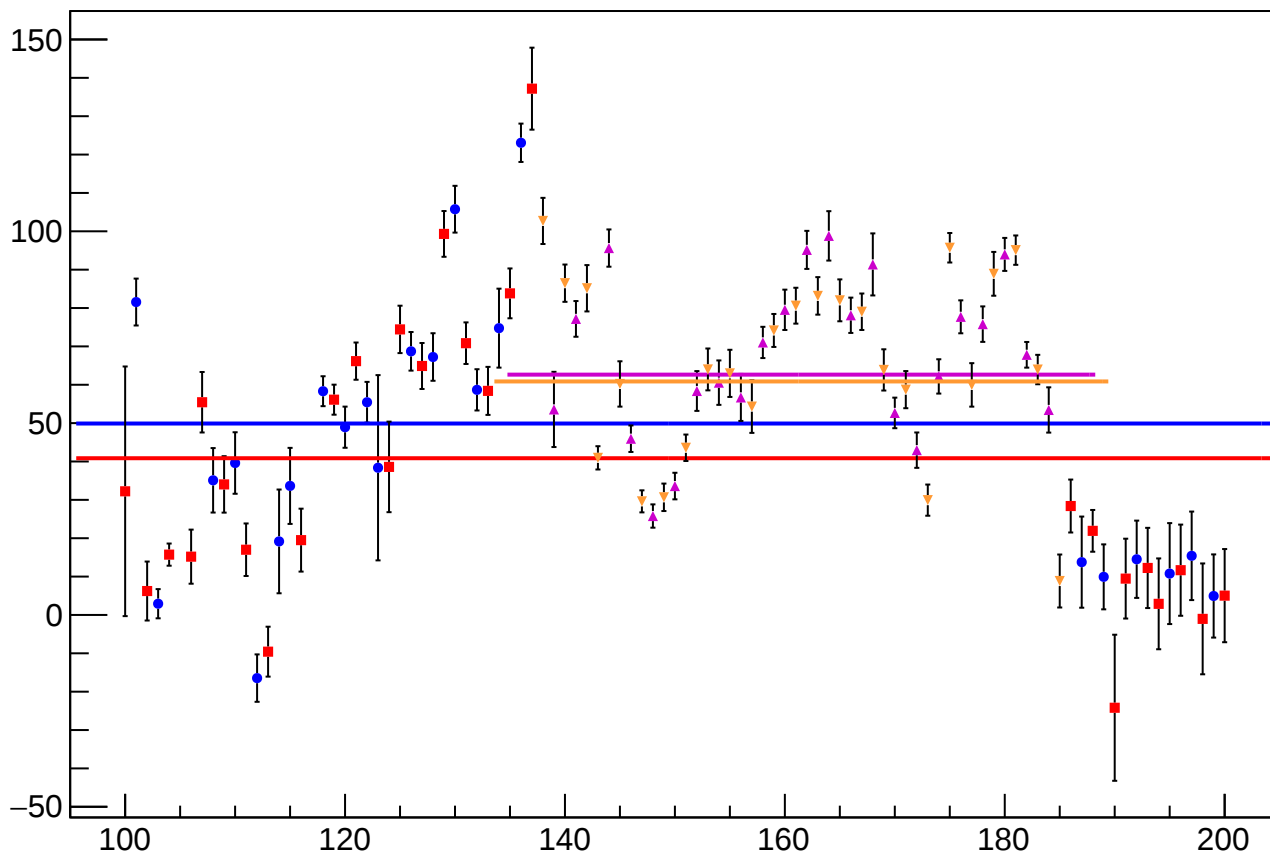
Right: 275.739+/-0.975 χ^2/NDF : 16349.7/50

In: 238.563+/-0.884 χ^2/NDF : 10226.5/45

Out: 242.196+/-0.791 χ^2/NDF : 15327.0/52

All: 240.581+/-0.590 χ^2/NDF : 25562.8/98

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 49.897 ± 1.368 $\chi^2/\text{NDF}: 720.7/22$

Left Out: 60.863 ± 0.897 $\chi^2/\text{NDF}: 731.6/24$

Right Out: 40.850 ± 1.247 $\chi^2/\text{NDF}: 617.3/27$

Left In: 62.640 ± 0.943 $\chi^2/\text{NDF}: 515.4/22$

Left: 61.707 ± 0.650 $\chi^2/\text{NDF}: 1248.9/47$

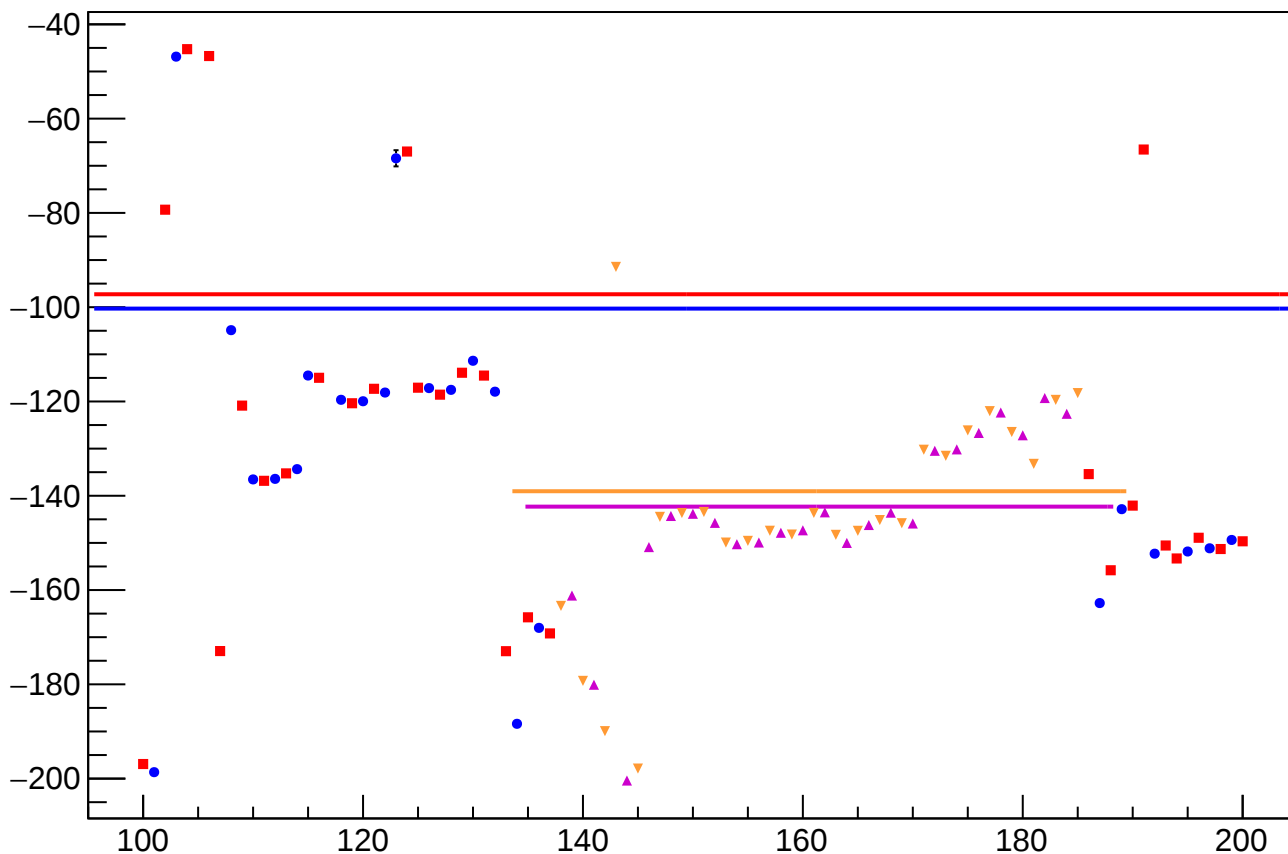
Right: 44.956 ± 0.922 $\chi^2/\text{NDF}: 1361.8/50$

In: 58.536 ± 0.776 $\chi^2/\text{NDF}: 1294.9/45$

Out: 54.042 ± 0.728 $\chi^2/\text{NDF}: 1518.7/52$

All: 56.145 ± 0.531 $\chi^2/\text{NDF}: 2831.4/98$

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -100.299+/-0.062 χ^2/NDF : 656539.6/22

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -97.256+/-0.057 χ^2/NDF : 703687.3/27

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

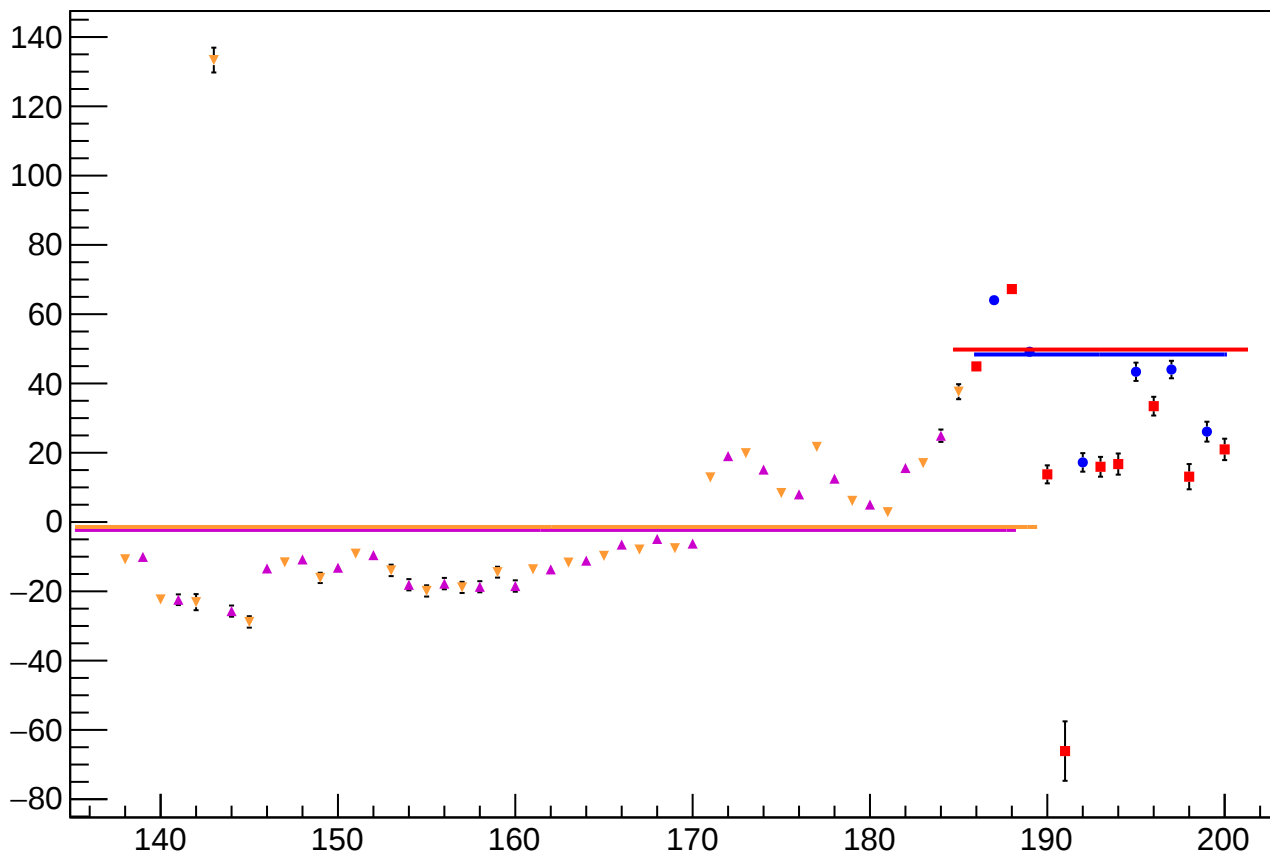
Right: -98.648+/-0.042 χ^2/NDF : 1361525.6/50

In: -128.259+/-0.036 χ^2/NDF : 1103589.4/45

Out: -123.978+/-0.034 χ^2/NDF : 1304250.0/52

All: -126.016+/-0.025 χ^2/NDF : 2415262.7/98

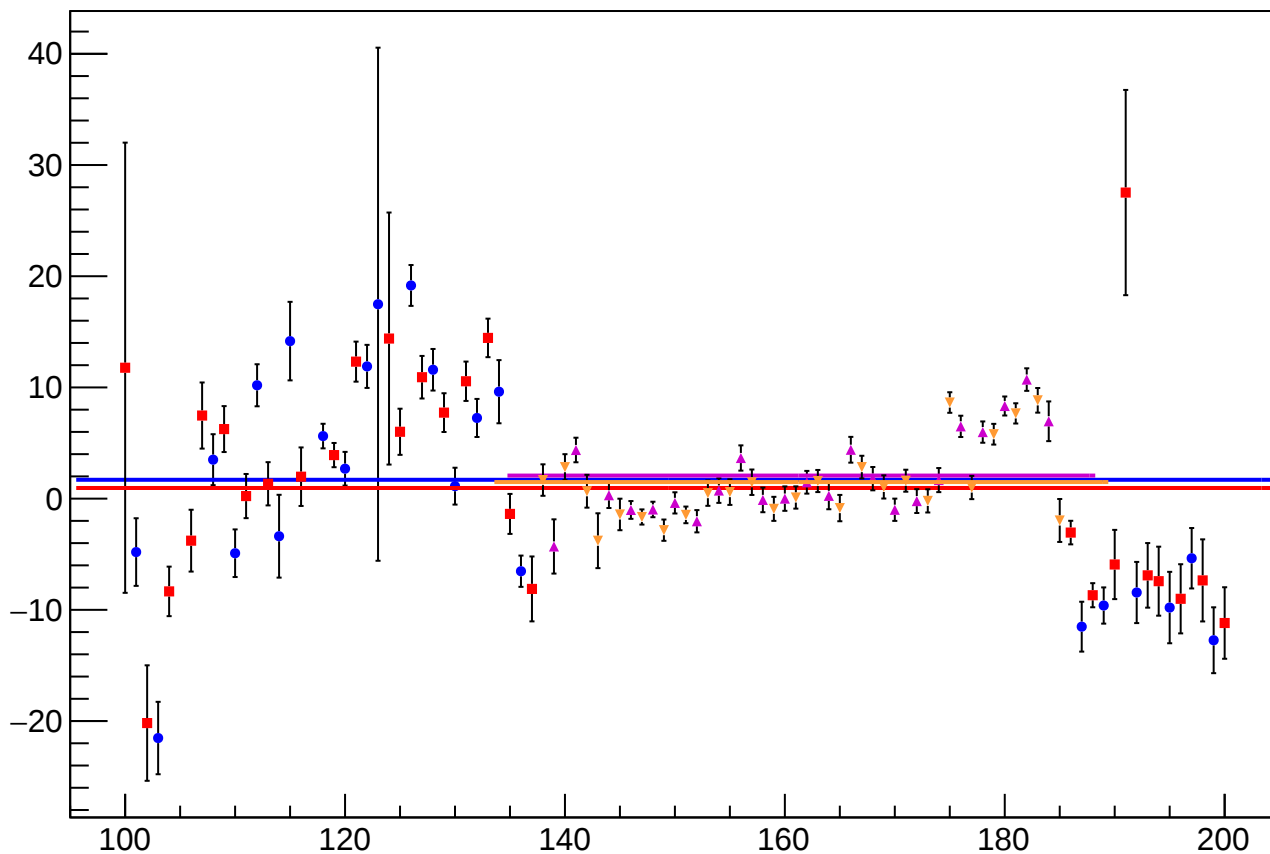
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 48.366 ± 0.804 $\chi^2/\text{NDF}: 329.2/5$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 49.788 ± 0.519 $\chi^2/\text{NDF}: 1396.2/8$
 Left In: -2.270 ± 0.271 $\chi^2/\text{NDF}: 2521.6/22$

Left: -1.844 ± 0.190 $\chi^2/\text{NDF}: 6865.5/47$
 Right: 49.369 ± 0.436 $\chi^2/\text{NDF}: 1727.6/14$
 In: 2.893 ± 0.257 $\chi^2/\text{NDF}: 6417.3/28$
 Out: 9.331 ± 0.238 $\chi^2/\text{NDF}: 13427.3/33$
 All: 6.355 ± 0.174 $\chi^2/\text{NDF}: 20183.2/62$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.695 $\pm$ 0.425 χ^2 /NDF: 452.3/22

Left Out: 1.491 $\pm$ 0.210 χ^2 /NDF:259.1/24

Right Out: 0.957 $\pm$ 0.383 χ^2 /NDF: 398.0/27

Left In: 2.075 $\pm$ 0.215 χ^2 /NDF:274.6/22

Left: 1.776 $\pm$ 0.150 χ^2 /NDF: 537.4/47

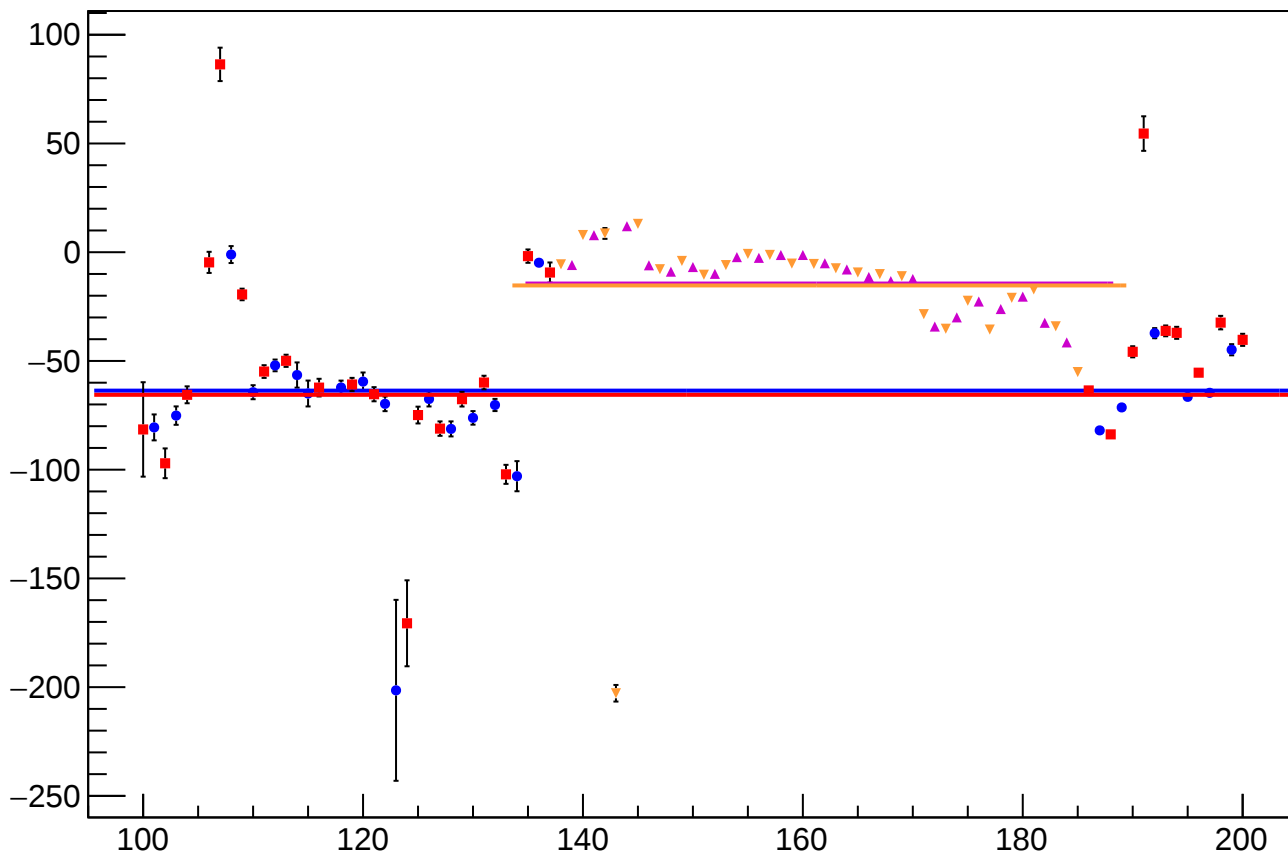
Right: 1.288 $\pm$ 0.285 χ^2 /NDF: 852.0/50

In: 1.997 $\pm$ 0.192 χ^2 /NDF:727.5/45

Out: 1.367 $\pm$ 0.184 χ^2 /NDF:658.6/52

All: 1.669 $\pm$ 0.133 χ^2 /NDF: 1391.7/98

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.647+/-0.532 χ^2/NDF : 1608.2/22

Left Out: -15.279+/-0.267 χ^2/NDF : 4820.1/24

Right Out: -65.570+/-0.380 χ^2/NDF : 3241.5/27

Left In: -14.406+/-0.269 χ^2/NDF : 2032.4/22

Left: -14.846+/-0.189 χ^2/NDF : 6857.8/47

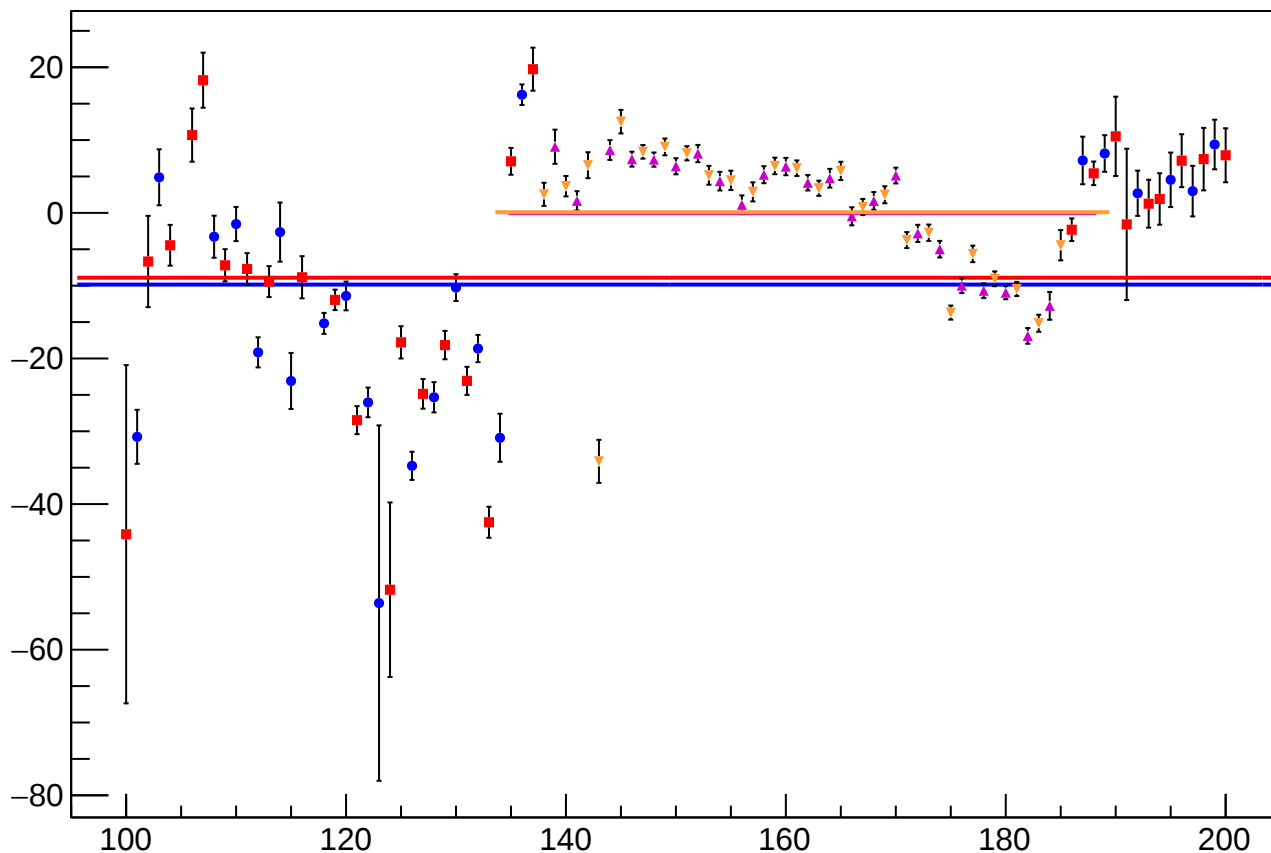
Right: -64.919+/-0.309 χ^2/NDF : 4858.4/50

In: -24.449+/-0.240 χ^2/NDF : 10469.5/45

Out: -31.870+/-0.218 χ^2/NDF : 19783.9/52

All: -28.510+/-0.162 χ^2/NDF : 30776.1/98

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -9.848 ± 0.497 χ^2/NDF : 961.0/22

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -8.907 ± 0.463 χ^2/NDF : 962.1/27

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

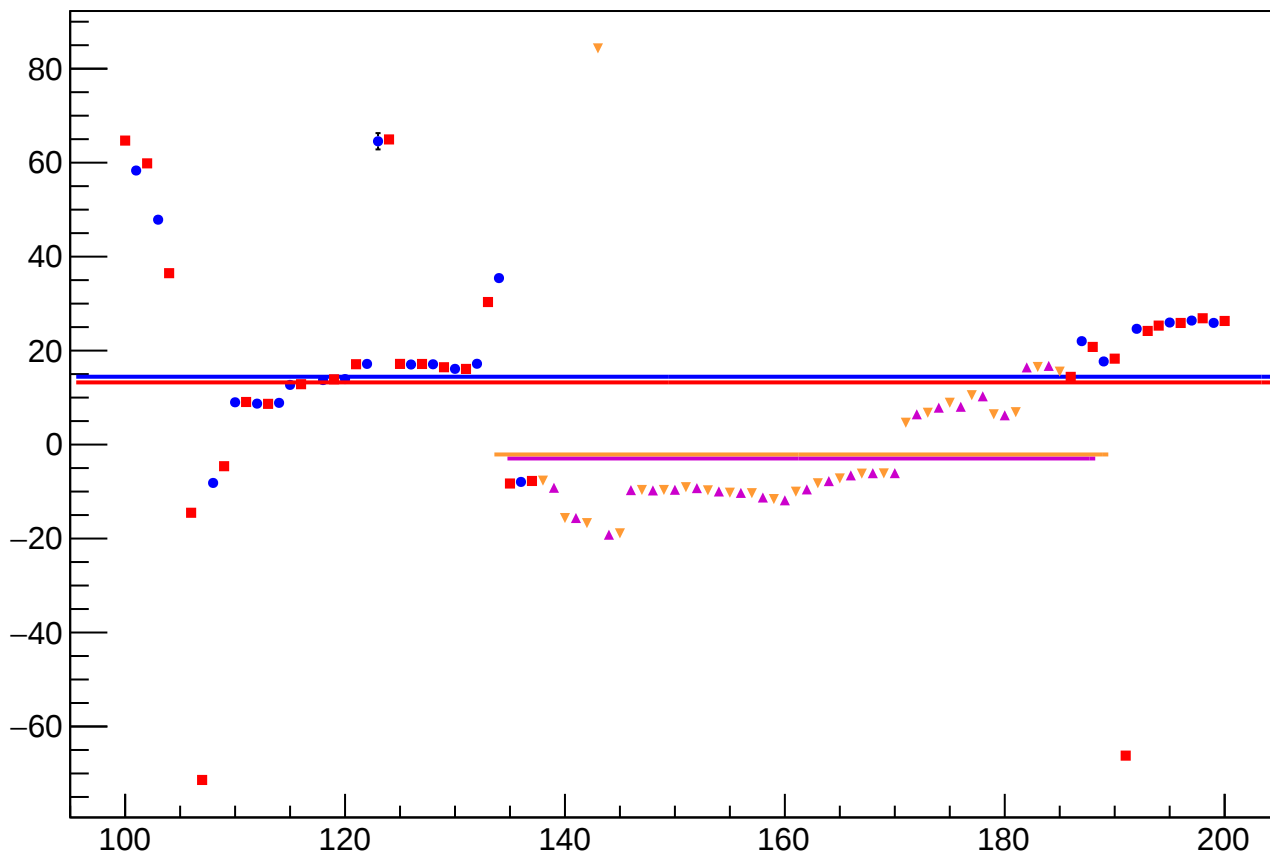
Right: -9.345 ± 0.339 χ^2/NDF : 1925.0/50

In: -1.939 ± 0.218 χ^2/NDF : 2303.6/45

Out: -1.795 ± 0.212 χ^2/NDF : 2432.6/52

All: -1.865 ± 0.152 χ^2/NDF : 4736.4/98

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 14.440+/-0.026 χ^2/NDF : 445260.9/22

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 13.232+/-0.024 χ^2/NDF : 725792.6/27

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

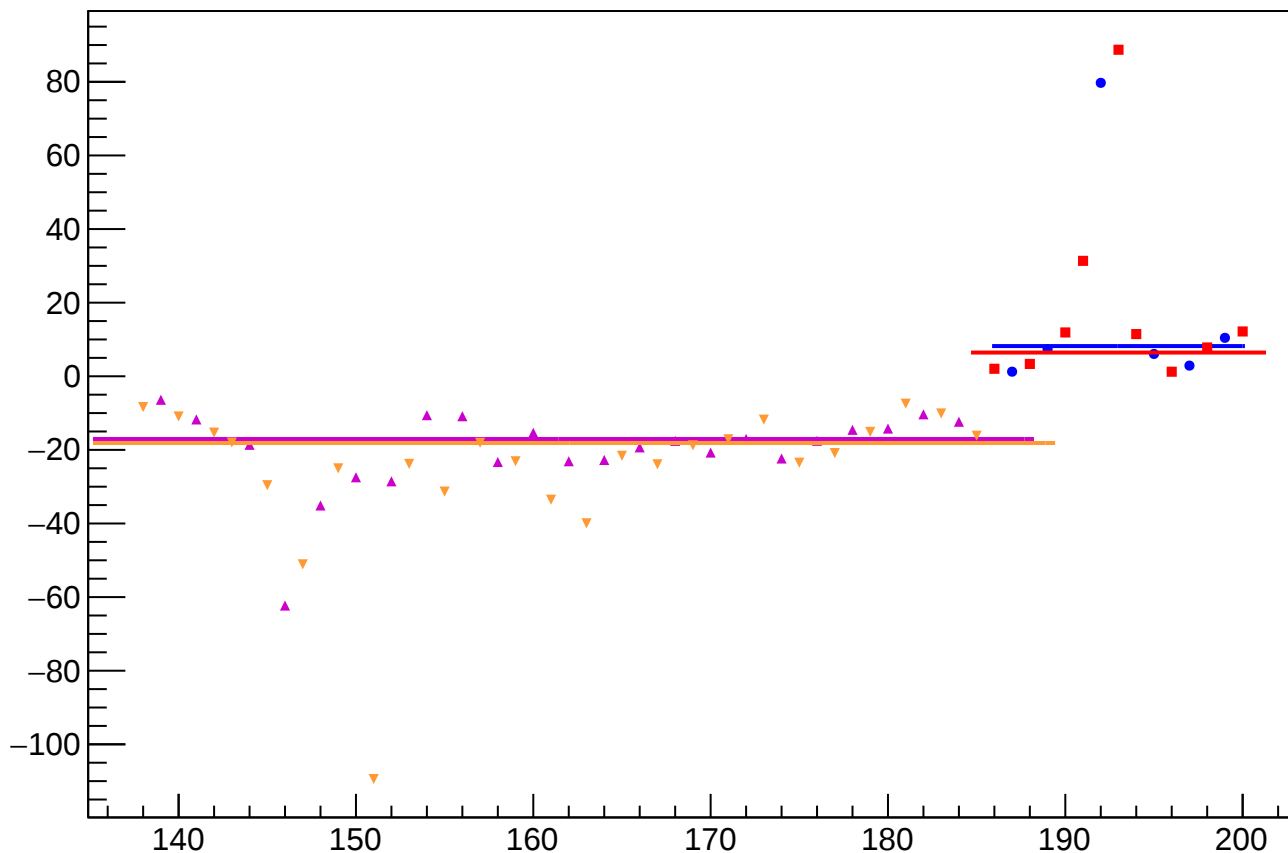
Right: 13.798+/-0.018 χ^2/NDF : 1172221.9/50

In: -0.273+/-0.010 χ^2/NDF : 1594414.4/45

Out: 0.489+/-0.010 χ^2/NDF : 2152463.7/52

All: 0.114+/-0.007 χ^2/NDF : 3749761.3/98

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.204 $\pm$ 0.090 χ^2 /NDF: 24424.1/5

Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF:88551.6/24

Right Out: 6.447 $\pm$ 0.071 χ^2 /NDF: 25592.8/8

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

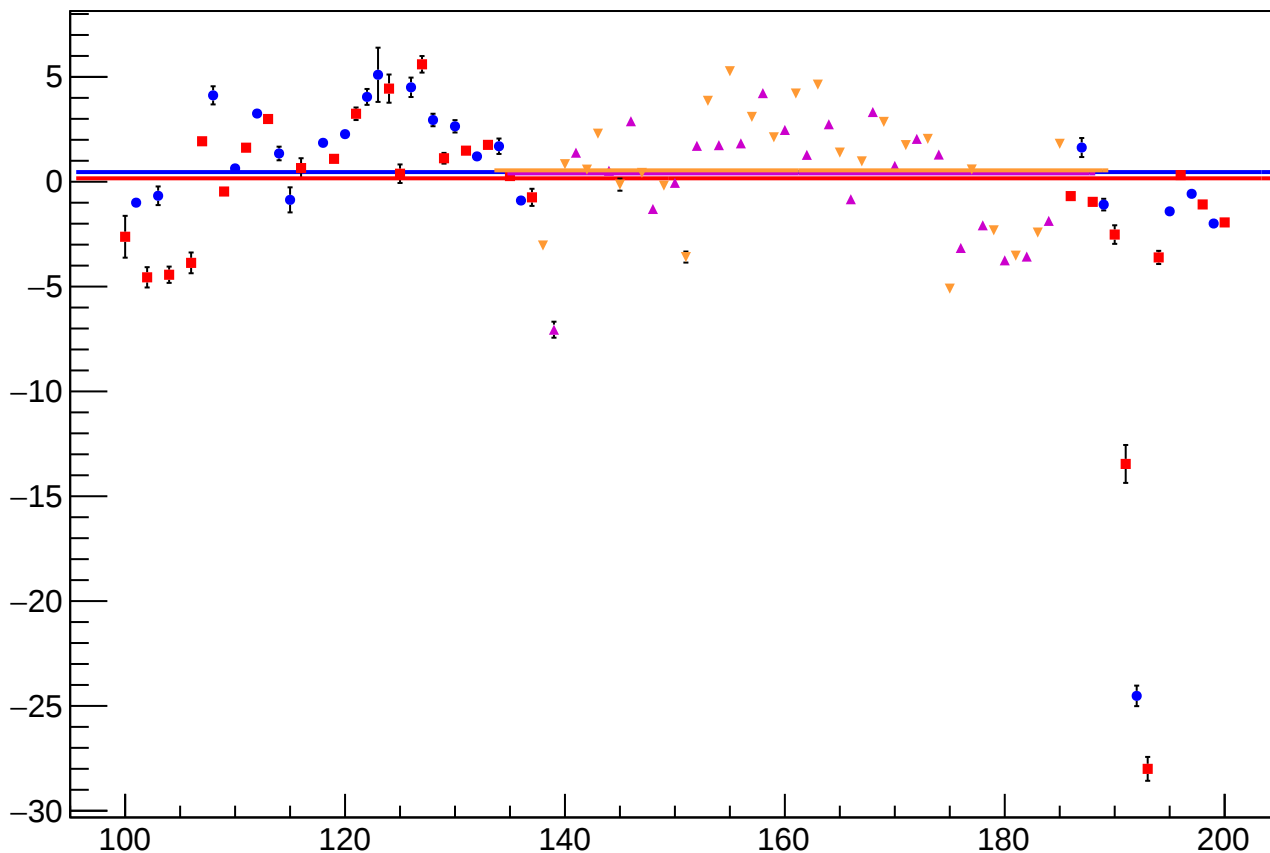
Right: 7.122 $\pm$ 0.056 χ^2 /NDF: 50253.7/14

In: -13.165 $\pm$ 0.035 χ^2 /NDF:135735.7/28

Out: -12.422 $\pm$ 0.034 χ^2 /NDF:206751.1/33

All: -12.782 $\pm$ 0.024 χ^2 /NDF: 342717.4/62

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.461 $\pm$ 0.053 χ^2 /NDF: 3749.5/22

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF:7085.3/24

Right Out: 0.163 $\pm$ 0.048 χ^2 /NDF: 4210.5/27

Left In: 0.397 $\pm$ 0.031 χ^2 /NDF:6235.6/22

Left: 0.466 $\pm$ 0.022 χ^2 /NDF: 13331.6/47

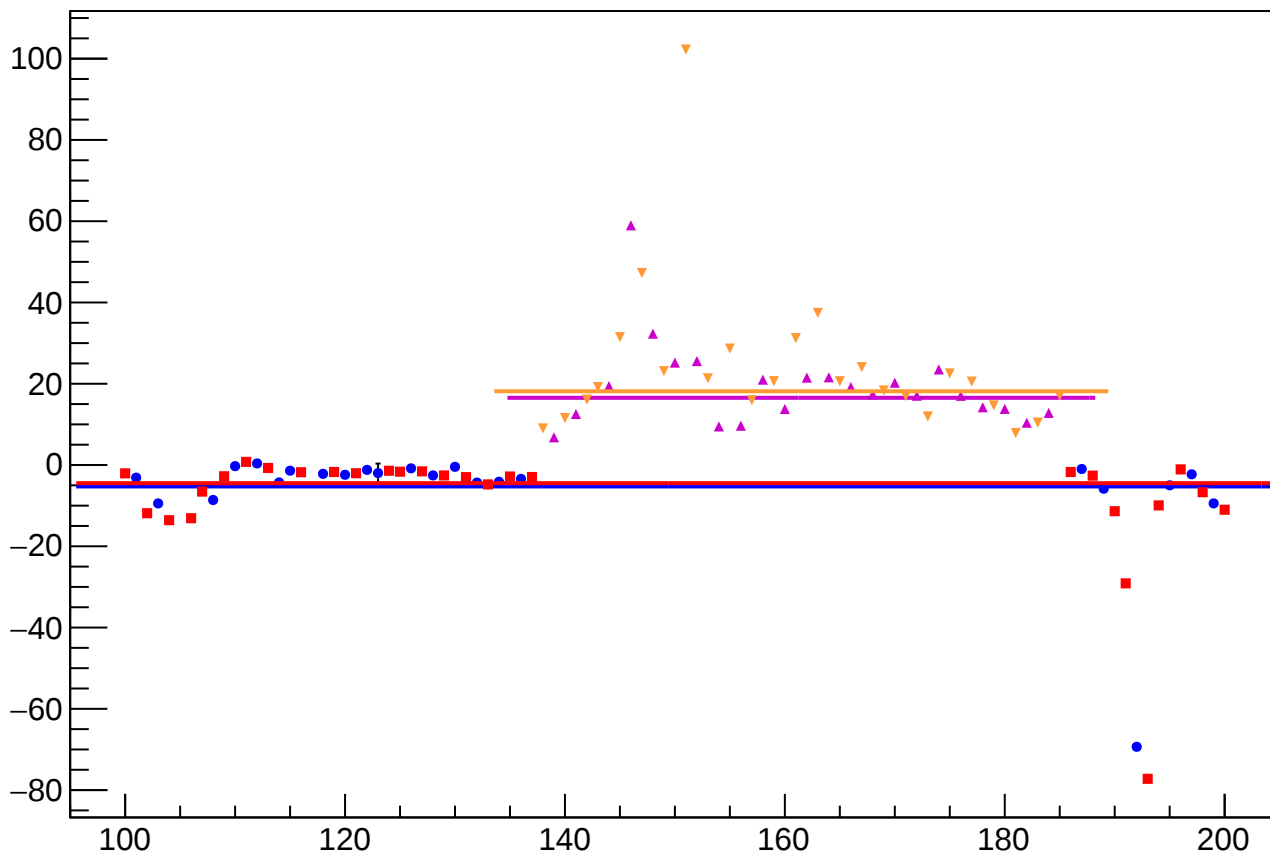
Right: 0.298 $\pm$ 0.036 χ^2 /NDF: 7977.5/50

In: 0.413 $\pm$ 0.027 χ^2 /NDF:9986.2/45

Out: 0.425 $\pm$ 0.027 χ^2 /NDF:11338.9/52

All: 0.419 $\pm$ 0.019 χ^2 /NDF: 21325.2/98

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.273 ± 0.063 $\chi^2/\text{NDF}: 26386.0/22$

Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$

Right Out: -4.472 ± 0.051 $\chi^2/\text{NDF}: 27564.5/27$

Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$

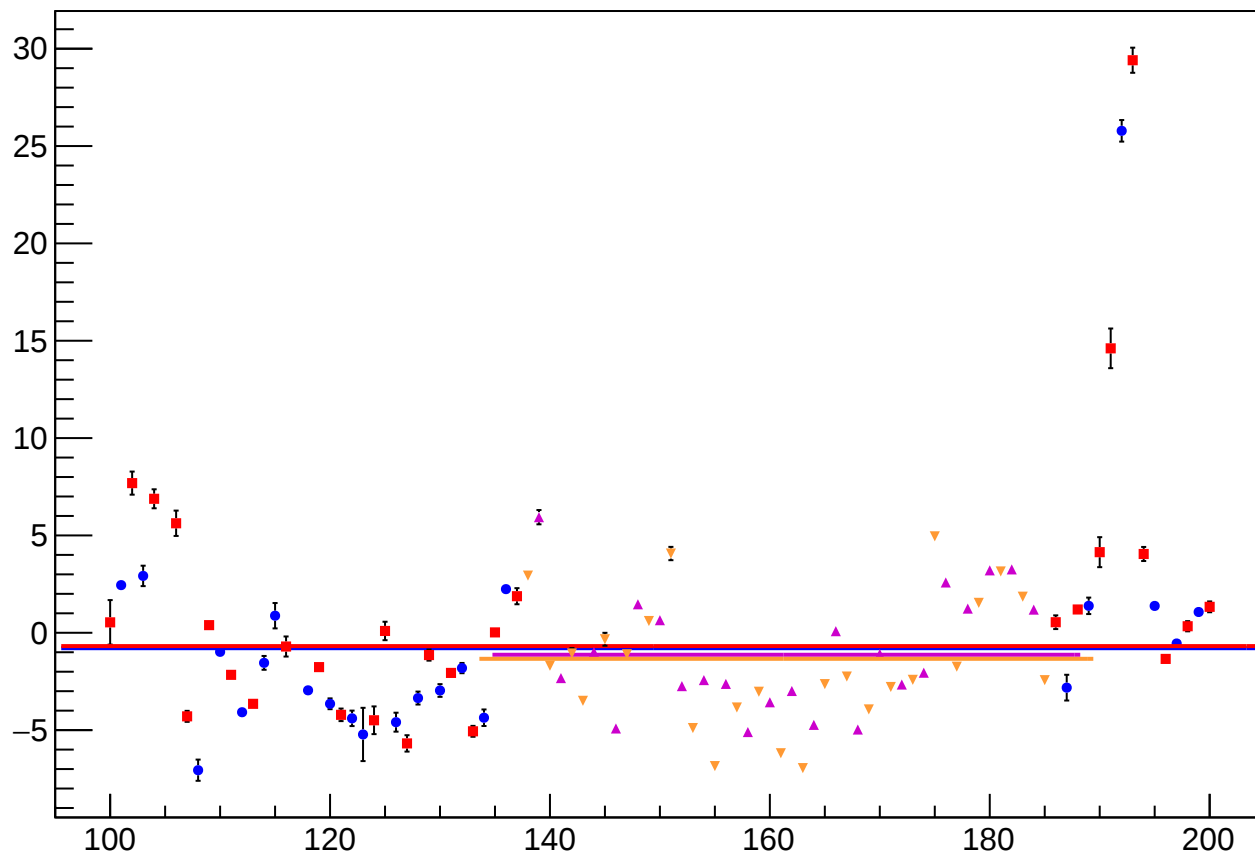
Right: -4.789 ± 0.039 $\chi^2/\text{NDF}: 54049.5/50$

In: 10.724 ± 0.032 $\chi^2/\text{NDF}: 156281.4/45$

Out: 9.693 ± 0.031 $\chi^2/\text{NDF}: 230587.5/52$

All: 10.186 ± 0.022 $\chi^2/\text{NDF}: 387399.7/98$

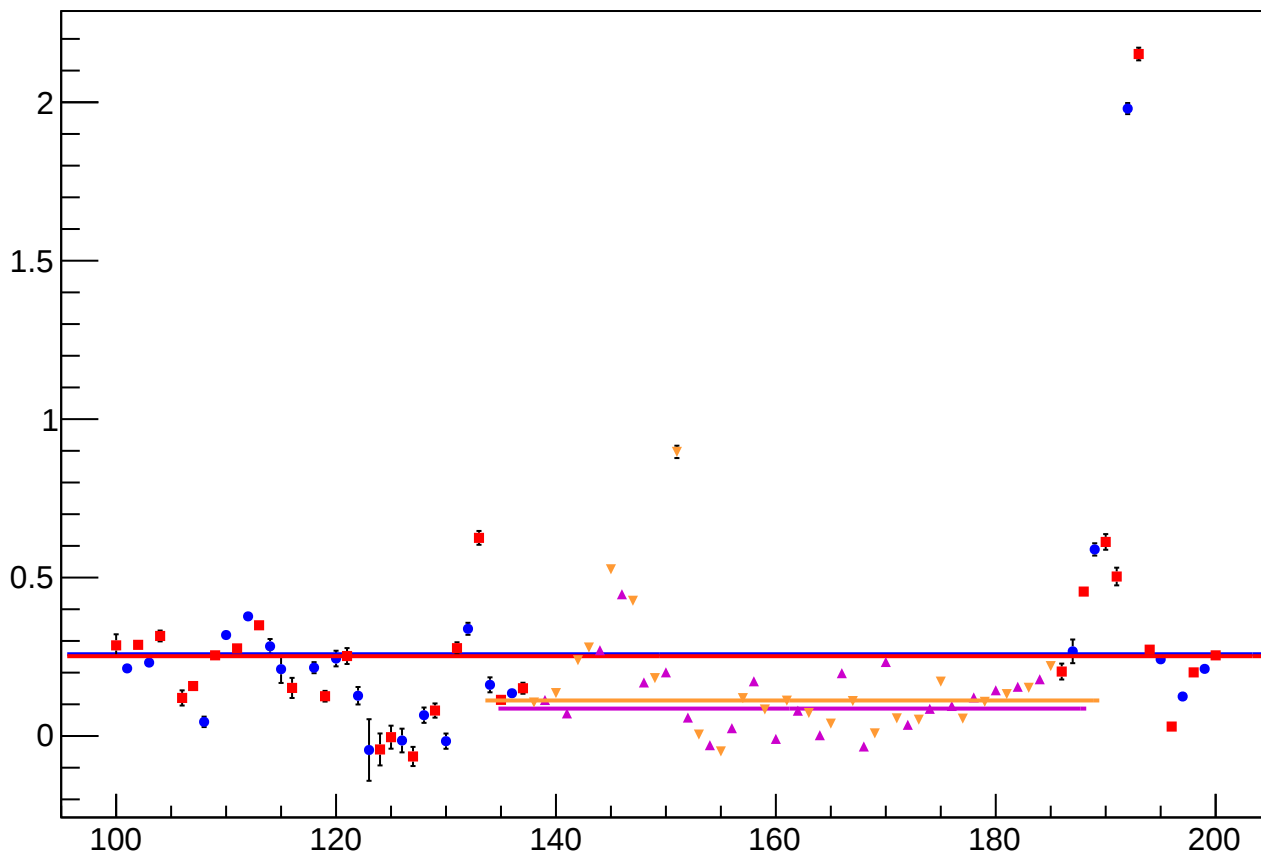
reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.792 ± 0.062 $\chi^2/\text{NDF}: 3876.9/22$
 Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$
 Right Out: -0.684 ± 0.056 $\chi^2/\text{NDF}: 4442.0/27$
 Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$
 Right: -0.733 ± 0.042 $\chi^2/\text{NDF}: 8320.6/50$
 In: -1.051 ± 0.030 $\chi^2/\text{NDF}: 10639.9/45$
 Out: -1.149 ± 0.030 $\chi^2/\text{NDF}: 12480.5/52$
 All: -1.099 ± 0.021 $\chi^2/\text{NDF}: 23125.8/98$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.258+/-0.003 χ^2/NDF : 11124.3/22

Left Out: 0.112+/-0.002 χ^2/NDF : 4503.9/24

Right Out: 0.252+/-0.003 χ^2/NDF : 11580.1/27

Left In: 0.087+/-0.002 χ^2/NDF : 3655.4/22

Left: 0.098+/-0.001 χ^2/NDF : 8295.3/47

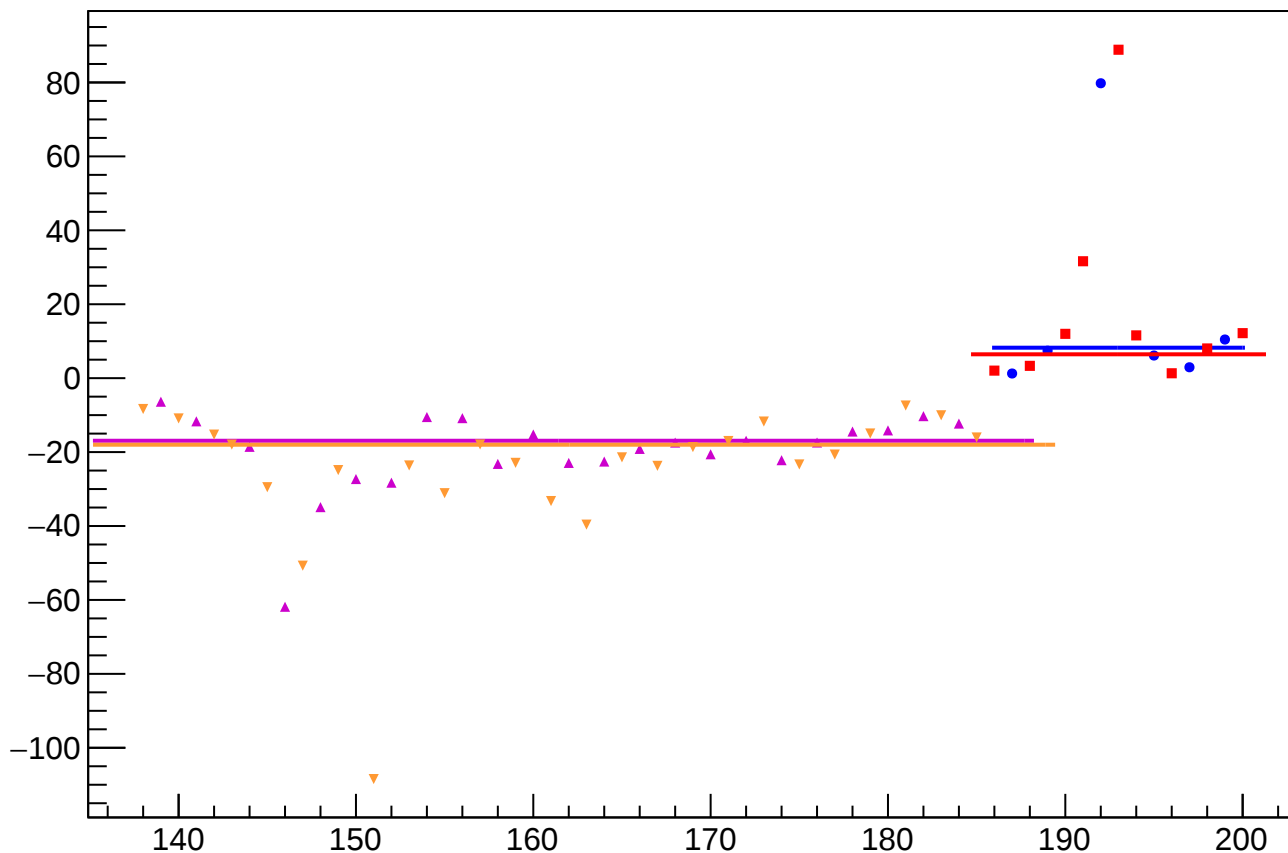
Right: 0.255+/-0.002 χ^2/NDF : 22706.9/50

In: 0.123+/-0.001 χ^2/NDF : 17546.2/45

Out: 0.150+/-0.001 χ^2/NDF : 18148.3/52

All: 0.136+/-0.001 χ^2/NDF : 35897.5/98

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.243 ± 0.089 $\chi^2/\text{NDF}: 24608.7/5$

Left Out: -18.005 ± 0.039 $\chi^2/\text{NDF}: 88391.0/24$

Right Out: 6.454 ± 0.070 $\chi^2/\text{NDF}: 25947.3/8$

Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$

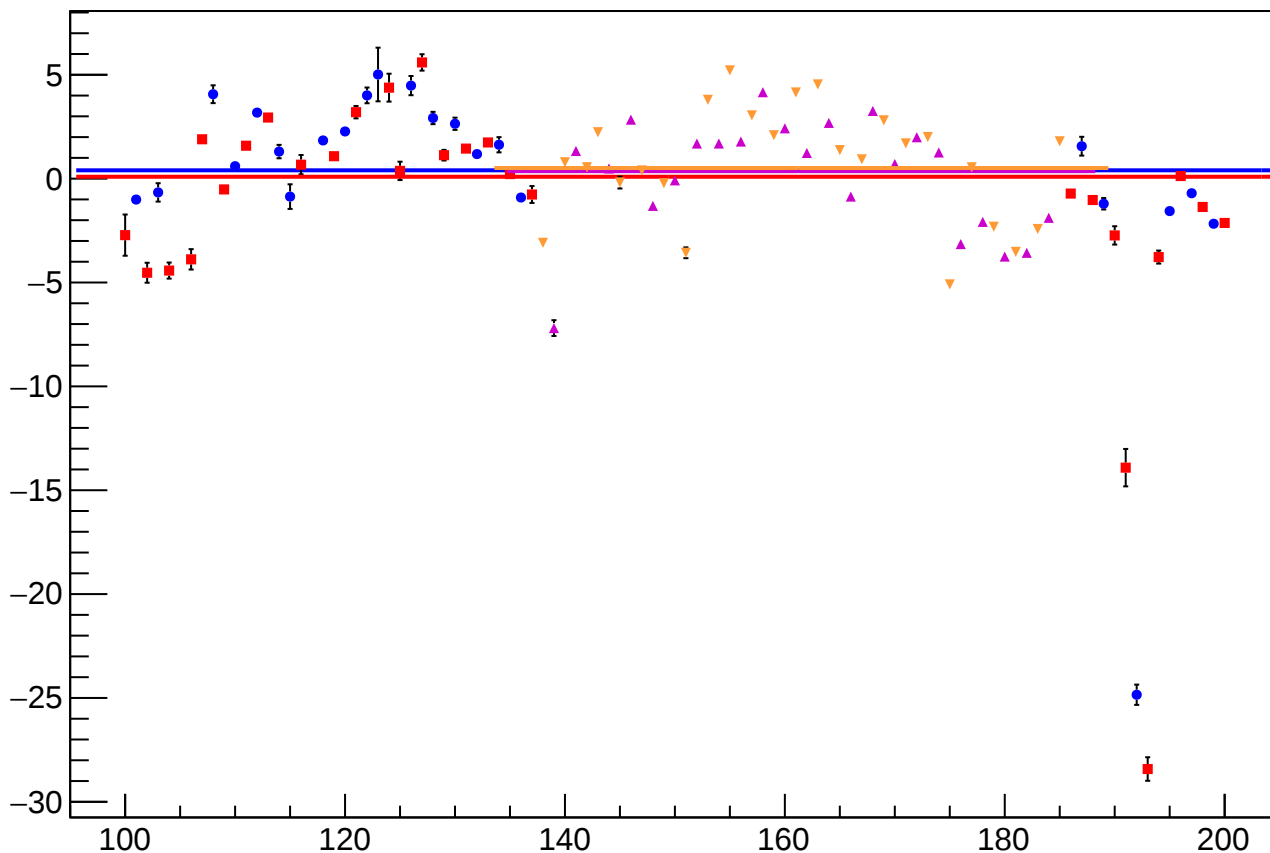
Right: 7.138 ± 0.055 $\chi^2/\text{NDF}: 50804.3/14$

In: -13.083 ± 0.035 $\chi^2/\text{NDF}: 136152.3/28$

Out: -12.313 ± 0.034 $\chi^2/\text{NDF}: 207587.0/33$

All: -12.686 ± 0.024 $\chi^2/\text{NDF}: 343990.8/62$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.402 ± 0.053 $\chi^2/\text{NDF}: 3871.1/22$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.092 ± 0.048 $\chi^2/\text{NDF}: 4371.5/27$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

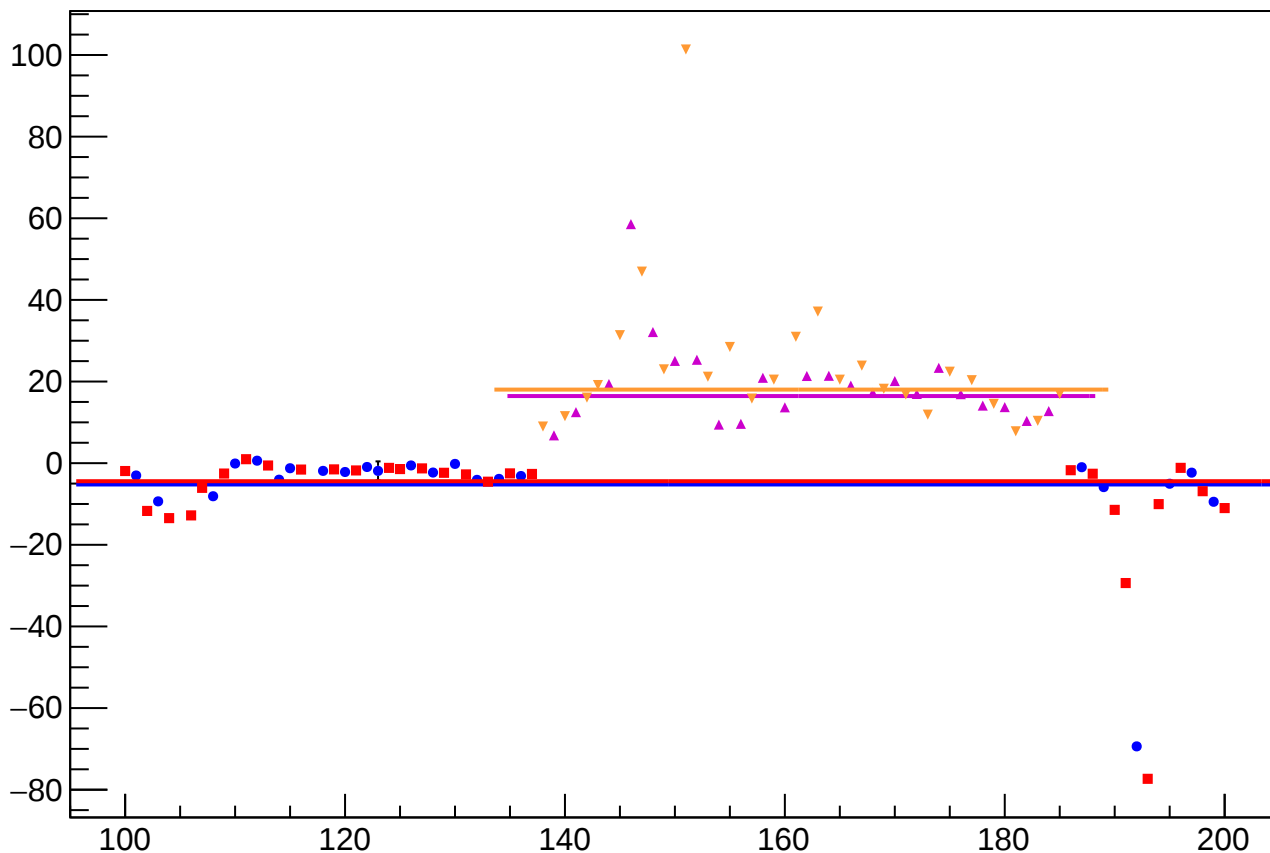
Right: 0.232 ± 0.035 $\chi^2/\text{NDF}: 8261.6/50$

In: 0.370 ± 0.026 $\chi^2/\text{NDF}: 10092.7/45$

Out: 0.381 ± 0.027 $\chi^2/\text{NDF}: 11494.9/52$

All: 0.375 ± 0.019 $\chi^2/\text{NDF}: 21587.7/98$

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.222 ± 0.062 $\chi^2/\text{NDF}: 26710.6/22$

Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$

Right Out: -4.418 ± 0.050 $\chi^2/\text{NDF}: 28030.0/27$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

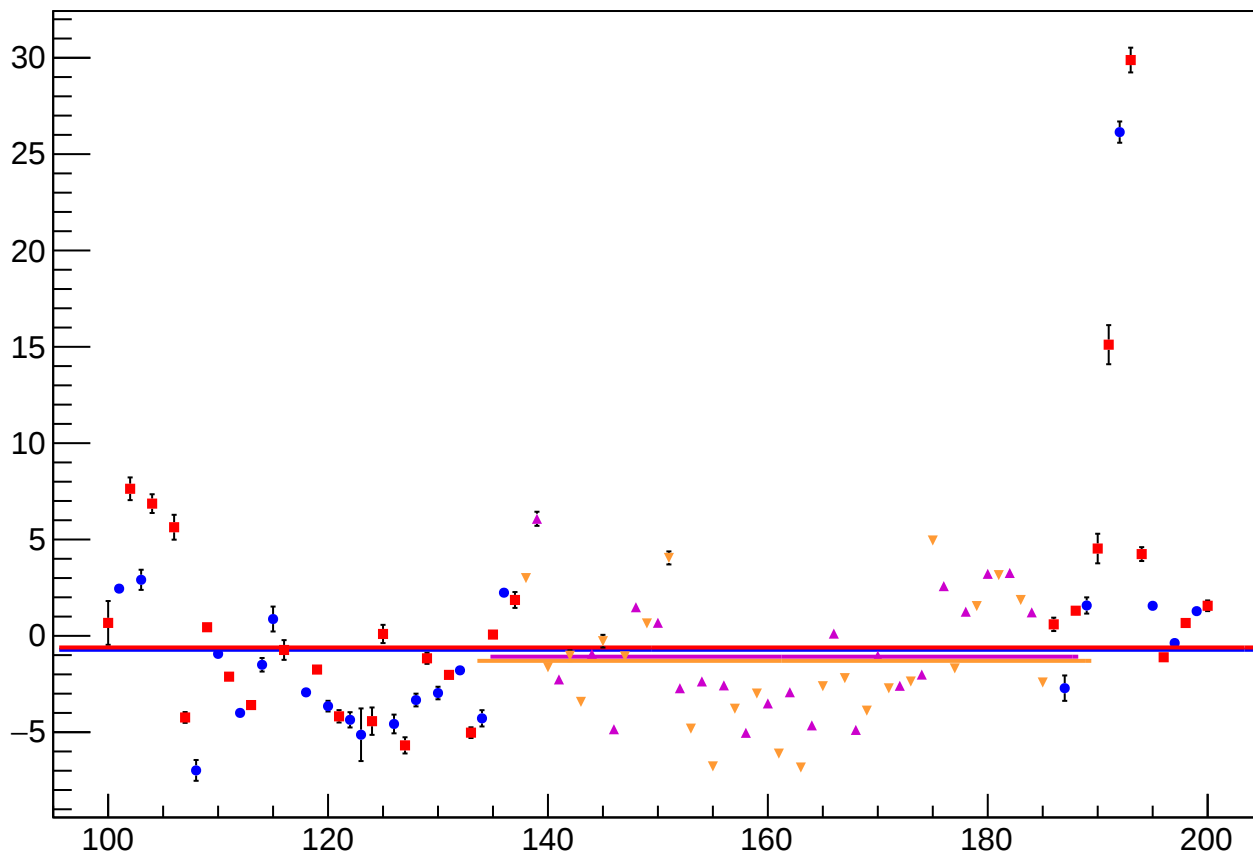
Right: -4.734 ± 0.039 $\chi^2/\text{NDF}: 54841.5/50$

In: 10.680 ± 0.032 $\chi^2/\text{NDF}: 156225.0/45$

Out: 9.627 ± 0.031 $\chi^2/\text{NDF}: 230845.5/52$

All: 10.130 ± 0.022 $\chi^2/\text{NDF}: 387631.5/98$

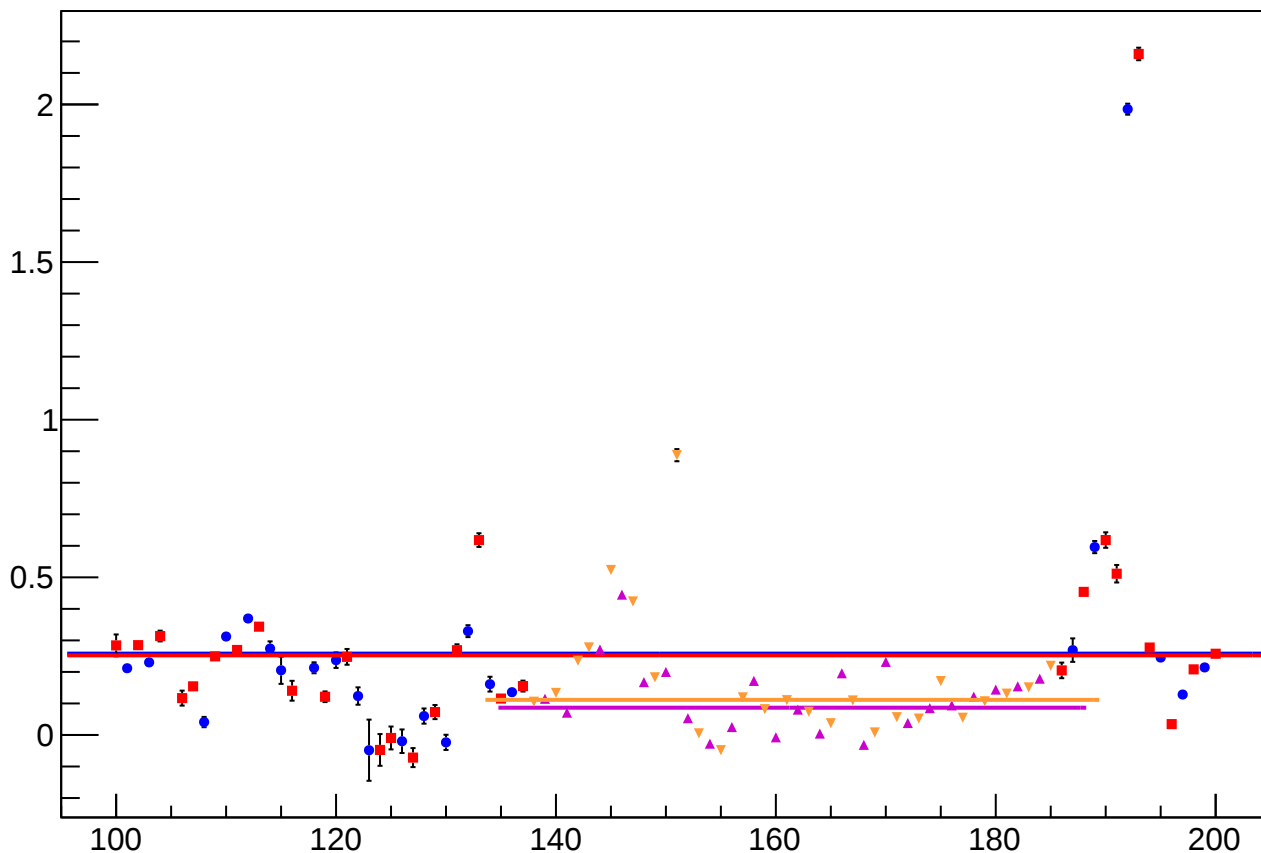
reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.723 ± 0.062 $\chi^2/\text{NDF}: 3978.4/22$
 Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$
 Right Out: -0.602 ± 0.056 $\chi^2/\text{NDF}: 4592.2/27$
 Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$
 Right: -0.657 ± 0.041 $\chi^2/\text{NDF}: 8572.7/50$
 In: -0.998 ± 0.030 $\chi^2/\text{NDF}: 10728.5/45$
 Out: -1.097 ± 0.030 $\chi^2/\text{NDF}: 12626.5/52$
 All: -1.047 ± 0.021 $\chi^2/\text{NDF}: 23360.5/98$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.258 $\pm$ 0.003 χ^2 /NDF: 11255.1/22

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.253 $\pm$ 0.003 χ^2 /NDF: 11715.1/27

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

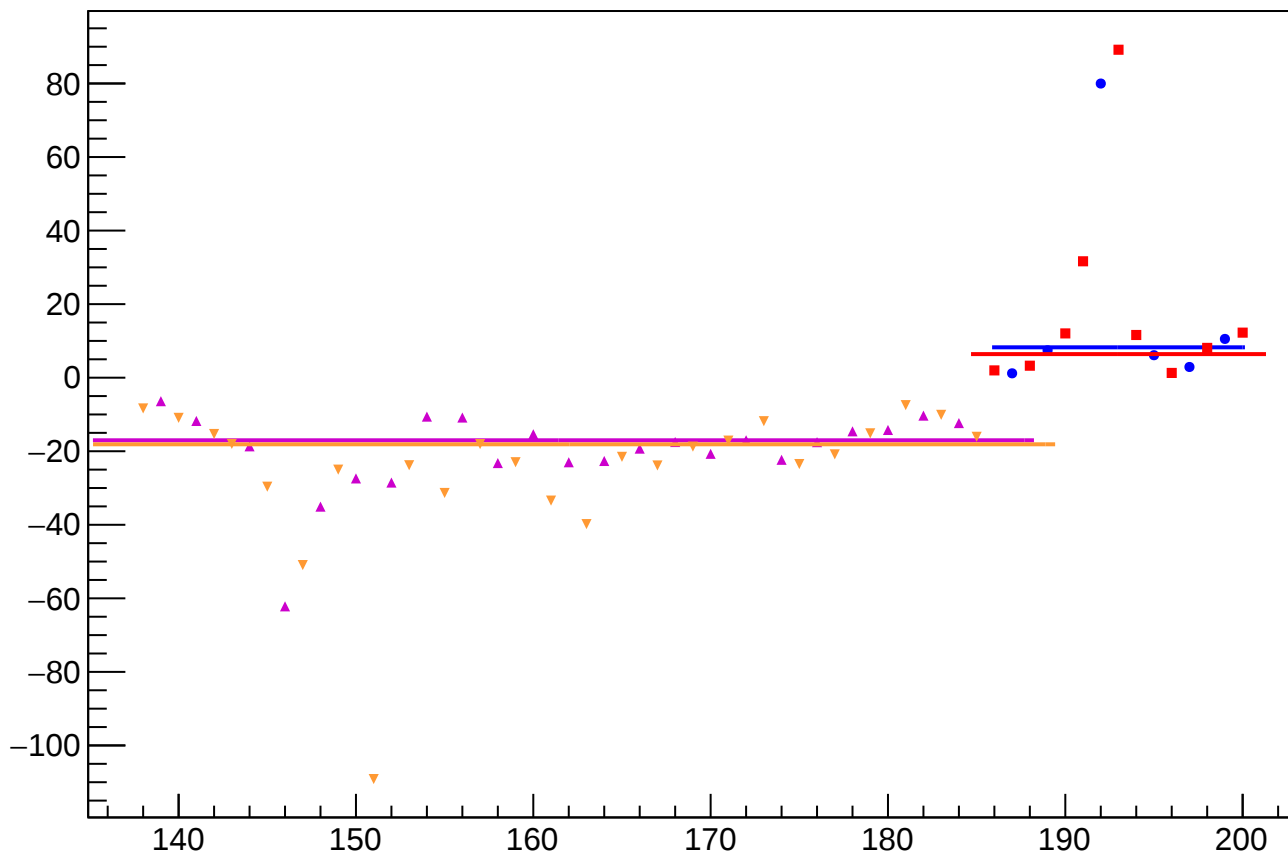
Right: 0.255 $\pm$ 0.002 χ^2 /NDF: 22972.2/50

In: 0.123 $\pm$ 0.001 χ^2 /NDF:17675.7/45

Out: 0.150 $\pm$ 0.001 χ^2 /NDF:18340.1/52

All: 0.136 $\pm$ 0.001 χ^2 /NDF: 36216.2/98

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.258 ± 0.090 $\chi^2/\text{NDF}: 24602.8/5$

Left Out: -18.112 ± 0.039 $\chi^2/\text{NDF}: 88529.7/24$

Right Out: 6.413 ± 0.070 $\chi^2/\text{NDF}: 25987.1/8$

Left In: -17.024 ± 0.038 $\chi^2/\text{NDF}: 44141.8/22$

Left: -17.557 ± 0.027 $\chi^2/\text{NDF}: 133072.9/47$

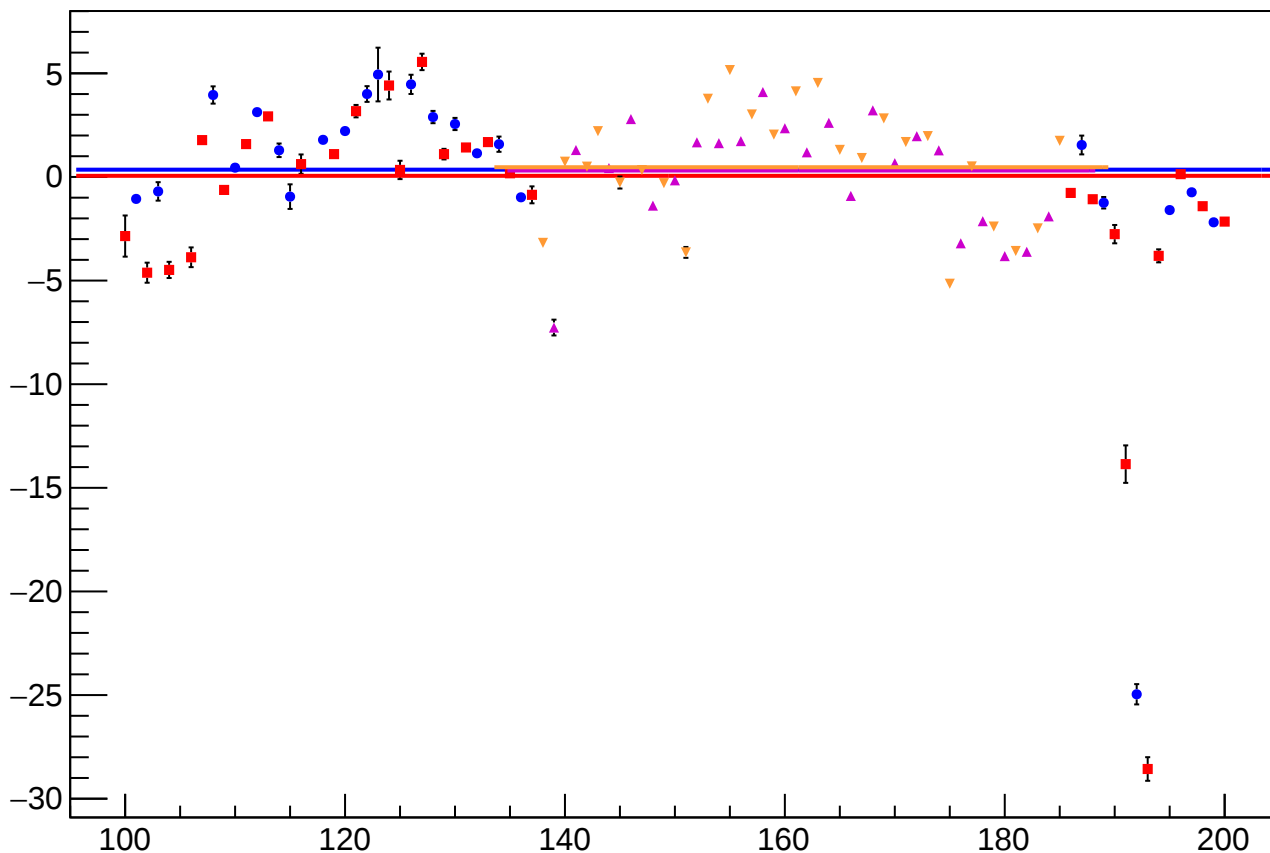
Right: 7.114 ± 0.055 $\chi^2/\text{NDF}: 50851.5/14$

In: -13.175 ± 0.035 $\chi^2/\text{NDF}: 135954.0/28$

Out: -12.383 ± 0.034 $\chi^2/\text{NDF}: 207832.0/33$

All: -12.767 ± 0.024 $\chi^2/\text{NDF}: 344049.4/62$

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.352 ± 0.053 $\chi^2/\text{NDF}: 3856.5/22$

Left Out: 0.469 ± 0.032 $\chi^2/\text{NDF}: 7093.0/24$

Right Out: 0.055 ± 0.048 $\chi^2/\text{NDF}: 4367.6/27$

Left In: 0.311 ± 0.031 $\chi^2/\text{NDF}: 6183.1/22$

Left: 0.386 ± 0.022 $\chi^2/\text{NDF}: 13288.8/47$

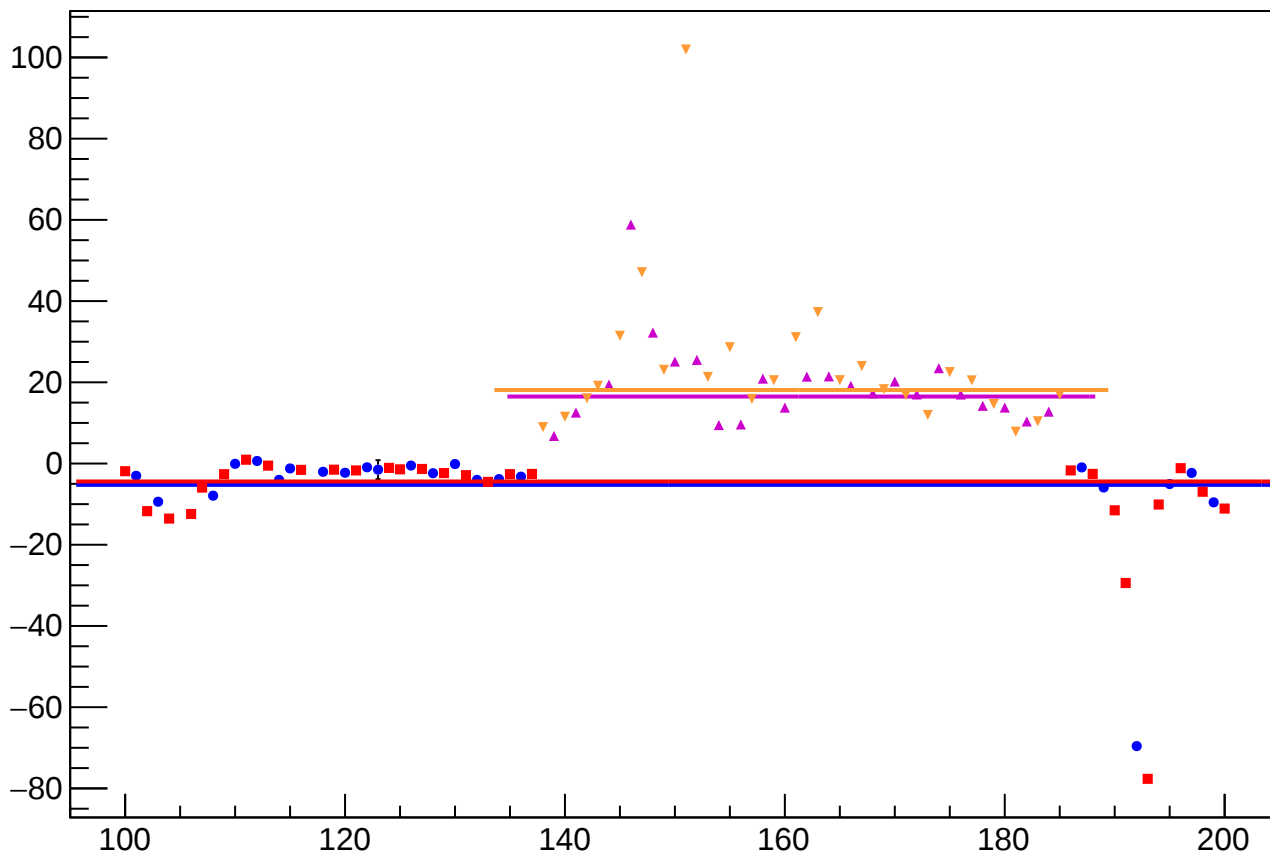
Right: 0.189 ± 0.036 $\chi^2/\text{NDF}: 8241.4/50$

In: 0.321 ± 0.027 $\chi^2/\text{NDF}: 10040.1/45$

Out: 0.340 ± 0.027 $\chi^2/\text{NDF}: 11511.9/52$

All: 0.330 ± 0.019 $\chi^2/\text{NDF}: 21552.3/98$

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.250+/-0.063 χ^2/NDF : 26701.9/22

Left Out: 18.101+/-0.039 χ^2/NDF : 77839.7/24

Right Out: -4.422+/-0.050 χ^2/NDF : 28042.8/27

Left In: 16.496+/-0.038 χ^2/NDF : 40867.3/22

Left: 17.270+/-0.027 χ^2/NDF : 119584.1/47

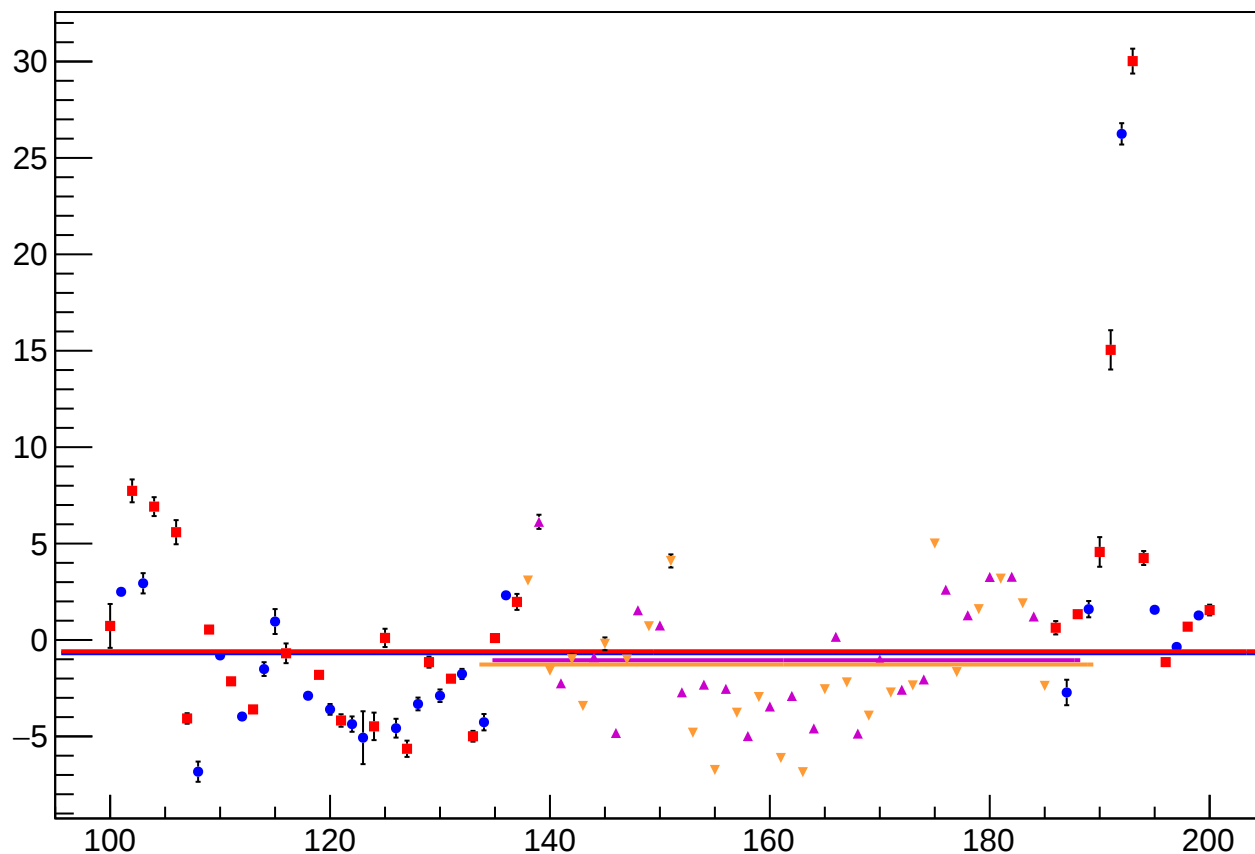
Right: -4.747+/-0.039 χ^2/NDF : 54850.7/50

In: 10.731+/-0.032 χ^2/NDF : 155981.9/45

Out: 9.652+/-0.031 χ^2/NDF : 231072.0/52

All: 10.167+/-0.022 χ^2/NDF : 387638.7/98

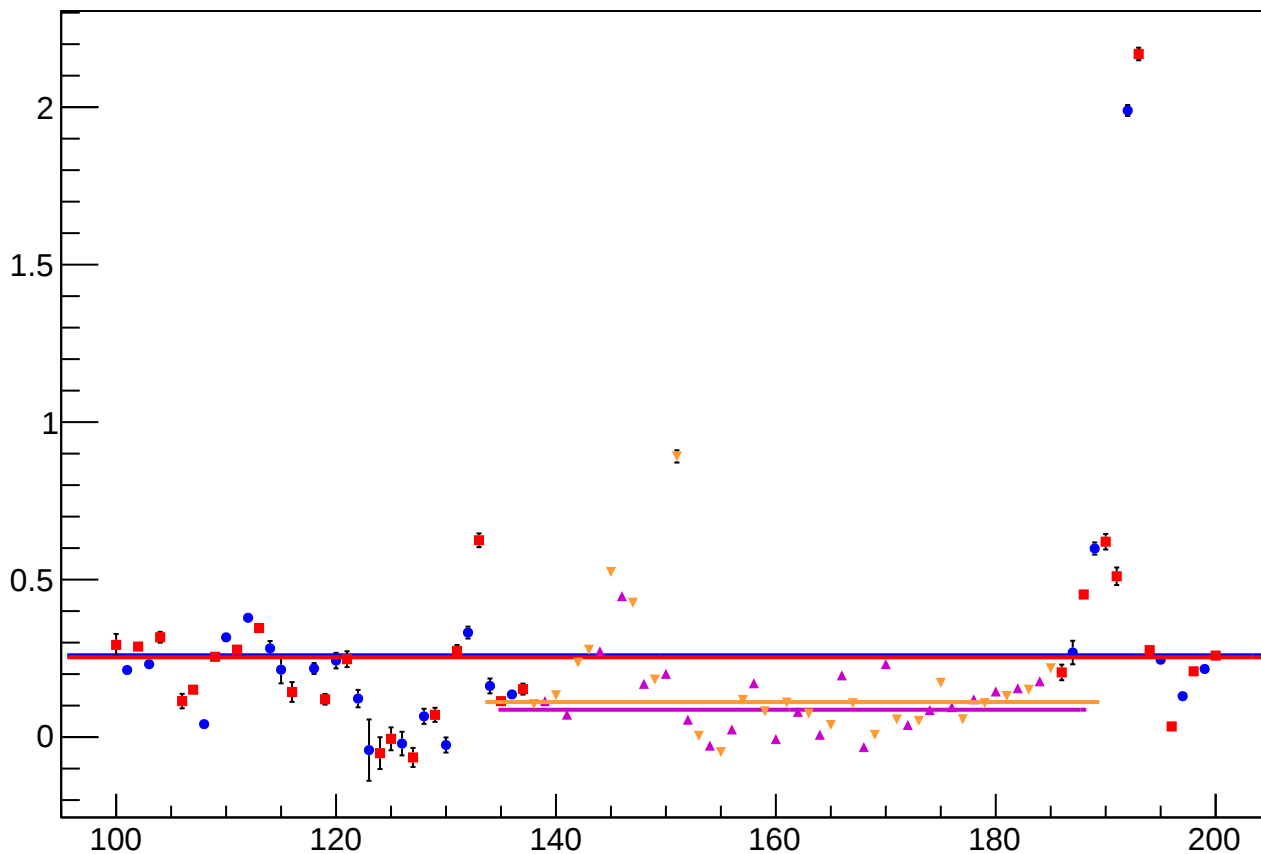
reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.687 ± 0.062 $\chi^2/\text{NDF}: 3967.9/22$
 Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$
 Right Out: -0.585 ± 0.056 $\chi^2/\text{NDF}: 4591.6/27$
 Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$
 Right: -0.631 ± 0.042 $\chi^2/\text{NDF}: 8561.0/50$
 In: -0.966 ± 0.030 $\chi^2/\text{NDF}: 10667.7/45$
 Out: -1.075 ± 0.030 $\chi^2/\text{NDF}: 12649.5/52$
 All: -1.020 ± 0.021 $\chi^2/\text{NDF}: 23323.8/98$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.260 $\pm$ 0.003 χ^2 /NDF: 11247.0/22

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.253 $\pm$ 0.003 χ^2 /NDF: 11730.8/27

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

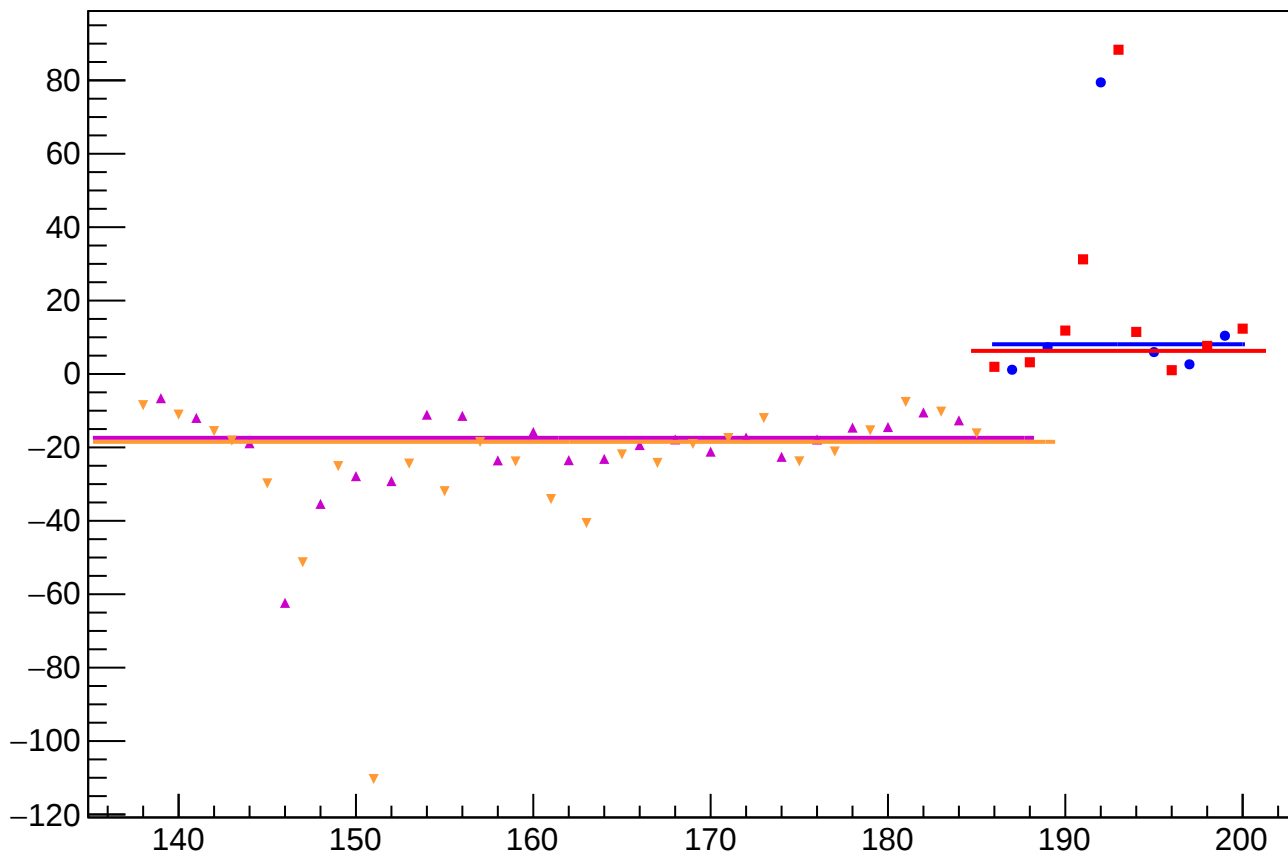
Right: 0.256 $\pm$ 0.002 χ^2 /NDF: 22980.5/50

In: 0.123 $\pm$ 0.001 χ^2 /NDF:17655.8/45

Out: 0.150 $\pm$ 0.001 χ^2 /NDF:18346.2/52

All: 0.136 $\pm$ 0.001 χ^2 /NDF: 36195.0/98

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.101+/-0.090 χ^2/NDF : 24257.4/5

Left Out: -18.479+/-0.040 χ^2/NDF : 87883.4/24

Right Out: 6.298+/-0.071 χ^2/NDF : 25520.3/8

Left In: -17.393+/-0.039 χ^2/NDF : 43178.9/22

Left: -17.926+/-0.028 χ^2/NDF : 131443.9/47

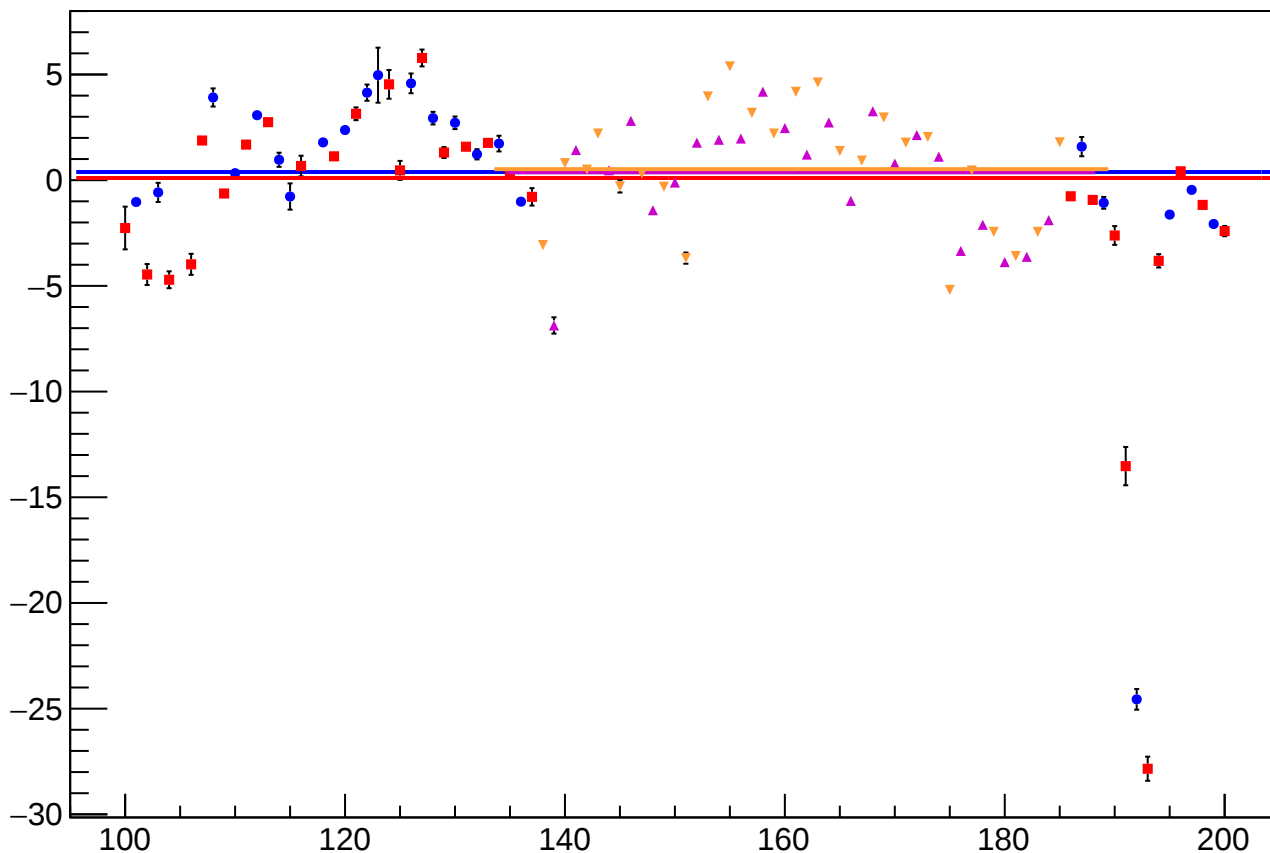
Right: 6.982+/-0.056 χ^2/NDF : 50025.2/14

In: -13.392+/-0.036 χ^2/NDF : 134645.3/28

Out: -12.521+/-0.035 χ^2/NDF : 207063.0/33

All: -12.942+/-0.025 χ^2/NDF : 342014.0/62

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.387 ± 0.054 $\chi^2/\text{NDF}: 3725.5/22$

Left Out: 0.522 ± 0.033 $\chi^2/\text{NDF}: 7055.1/24$

Right Out: 0.103 ± 0.049 $\chi^2/\text{NDF}: 4204.5/27$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

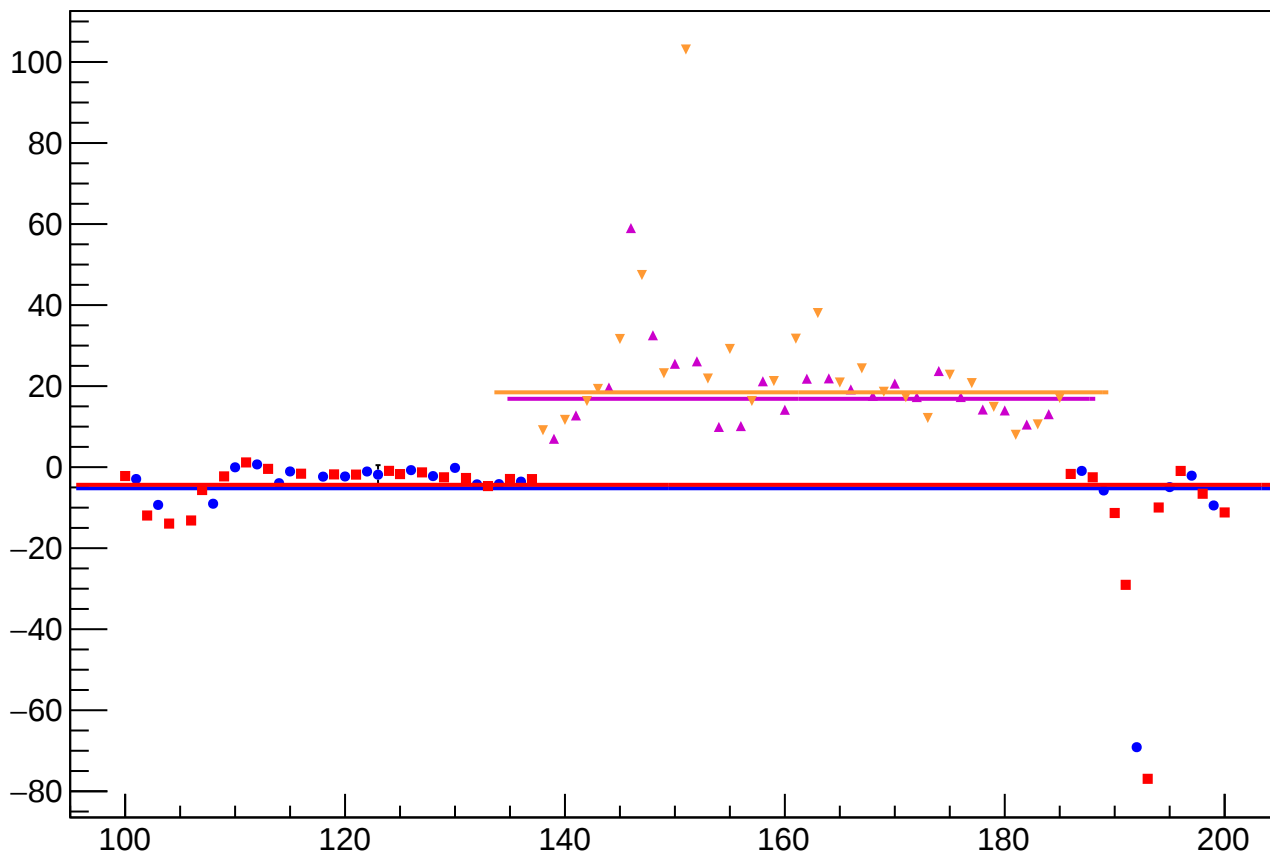
Right: 0.231 ± 0.036 $\chi^2/\text{NDF}: 7945.3/50$

In: 0.375 ± 0.027 $\chi^2/\text{NDF}: 9943.0/45$

Out: 0.390 ± 0.027 $\chi^2/\text{NDF}: 11310.2/52$

All: 0.383 ± 0.019 $\chi^2/\text{NDF}: 21253.3/98$

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.216 ± 0.063 $\chi^2/\text{NDF}: 26228.0/22$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -4.357 ± 0.051 $\chi^2/\text{NDF}: 27548.6/27$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

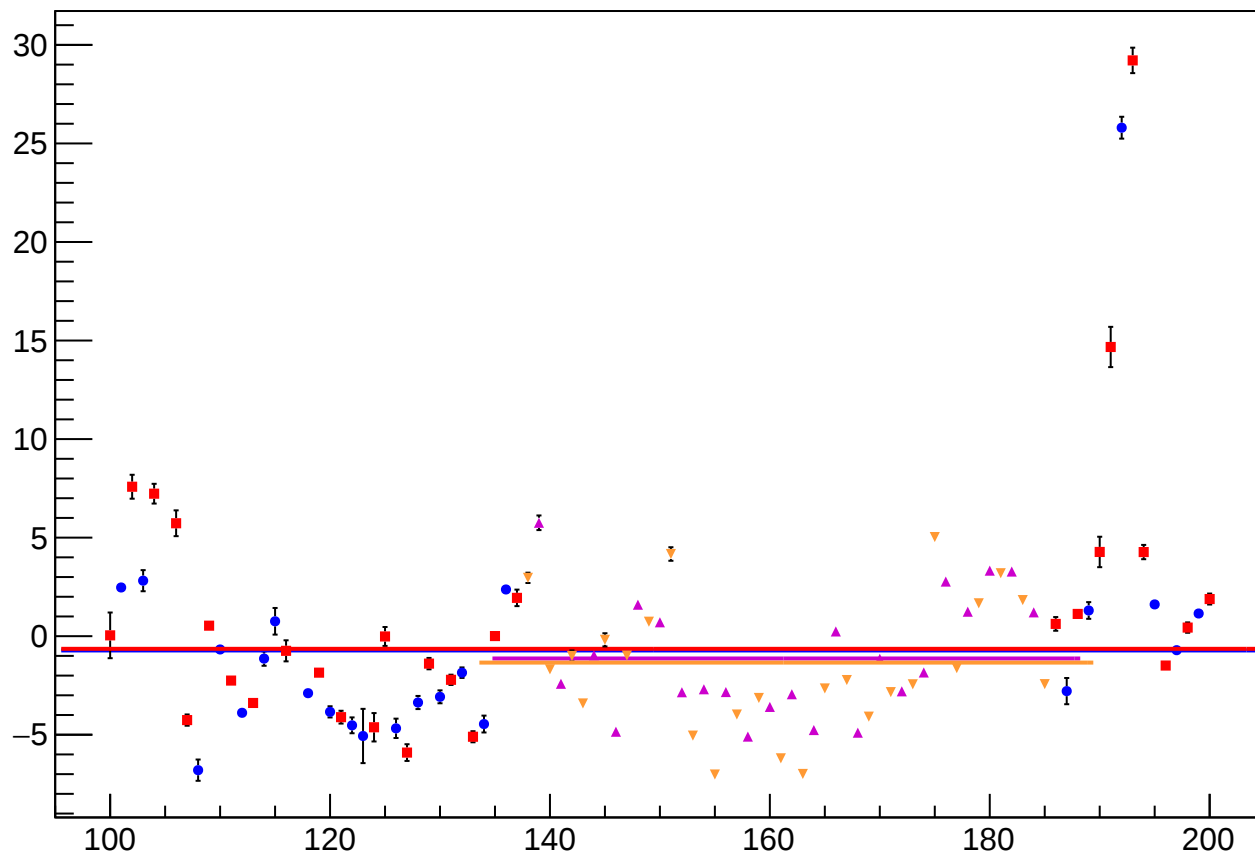
Right: -4.693 ± 0.040 $\chi^2/\text{NDF}: 53888.5/50$

In: 10.888 ± 0.033 $\chi^2/\text{NDF}: 154772.6/45$

Out: 9.750 ± 0.031 $\chi^2/\text{NDF}: 229850.2/52$

All: 10.291 ± 0.023 $\chi^2/\text{NDF}: 385249.4/98$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

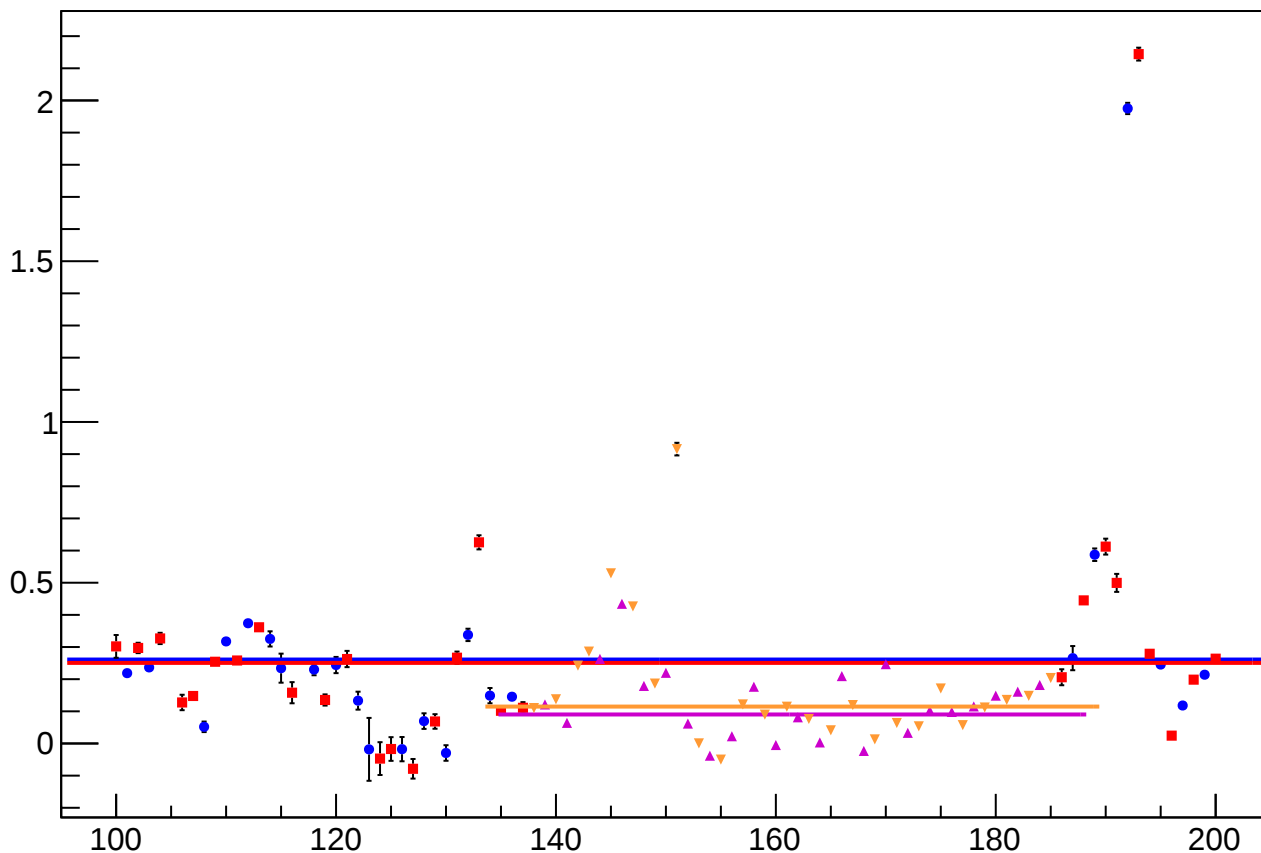


Right In: -0.724 ± 0.063 $\chi^2/\text{NDF}: 3855.4/22$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -0.642 ± 0.057 $\chi^2/\text{NDF}: 4433.9/27$
 Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$
 Right: -0.679 ± 0.042 $\chi^2/\text{NDF}: 8290.3/50$
 In: -1.036 ± 0.030 $\chi^2/\text{NDF}: 10596.2/45$
 Out: -1.137 ± 0.031 $\chi^2/\text{NDF}: 12447.1/52$

All: -1.086 ± 0.022 $\chi^2/\text{NDF}: 23048.7/98$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.261 $\pm$ 0.003 χ^2 /NDF: 10992.0/22

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.251 $\pm$ 0.003 χ^2 /NDF: 11582.7/27

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

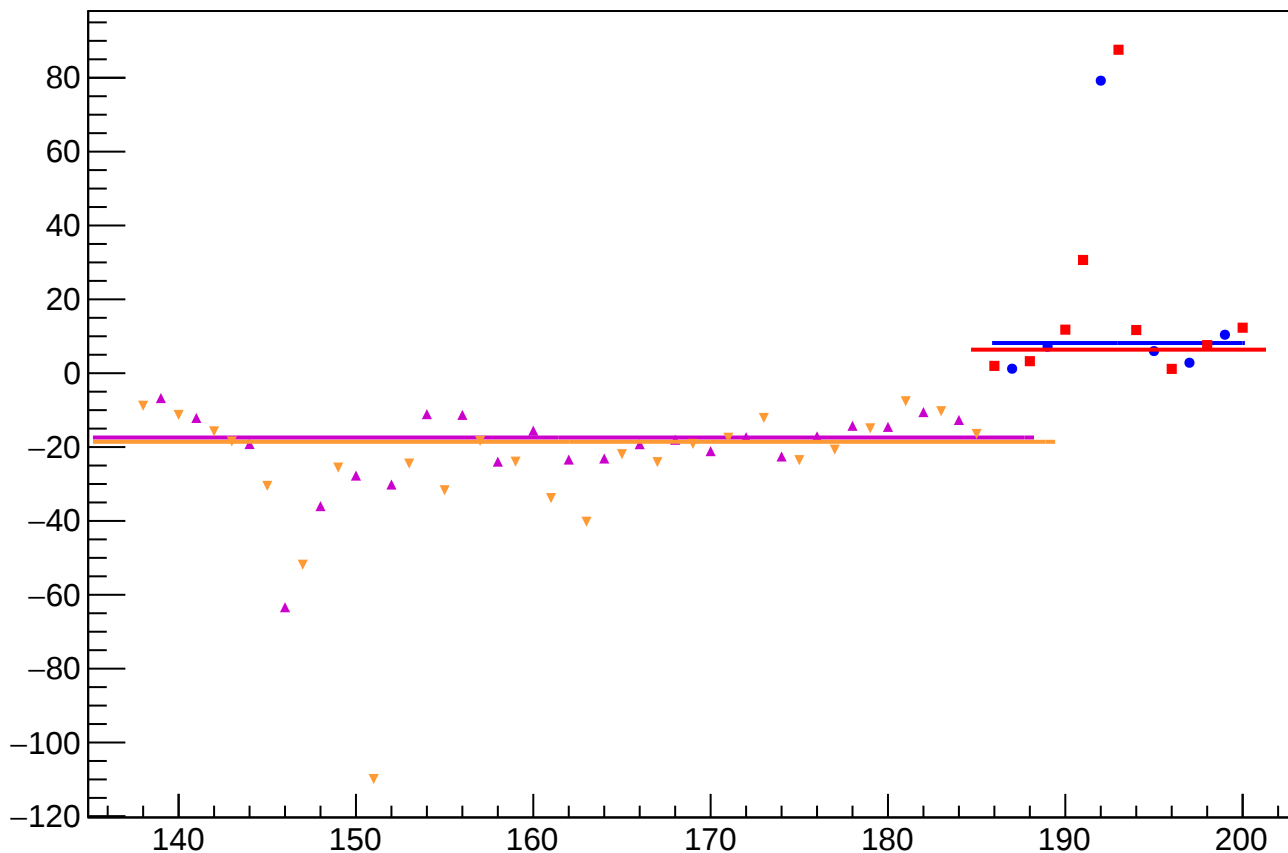
Right: 0.255 $\pm$ 0.002 χ^2 /NDF: 22581.6/50

In: 0.127 $\pm$ 0.001 χ^2 /NDF:17336.5/45

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:17915.9/52

All: 0.139 $\pm$ 0.001 χ^2 /NDF: 35419.3/98

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.177 ± 0.091 $\chi^2/\text{NDF}: 23771.4/5$

Left Out: -18.566 ± 0.040 $\chi^2/\text{NDF}: 86389.6/24$

Right Out: 6.378 ± 0.071 $\chi^2/\text{NDF}: 24856.9/8$

Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$

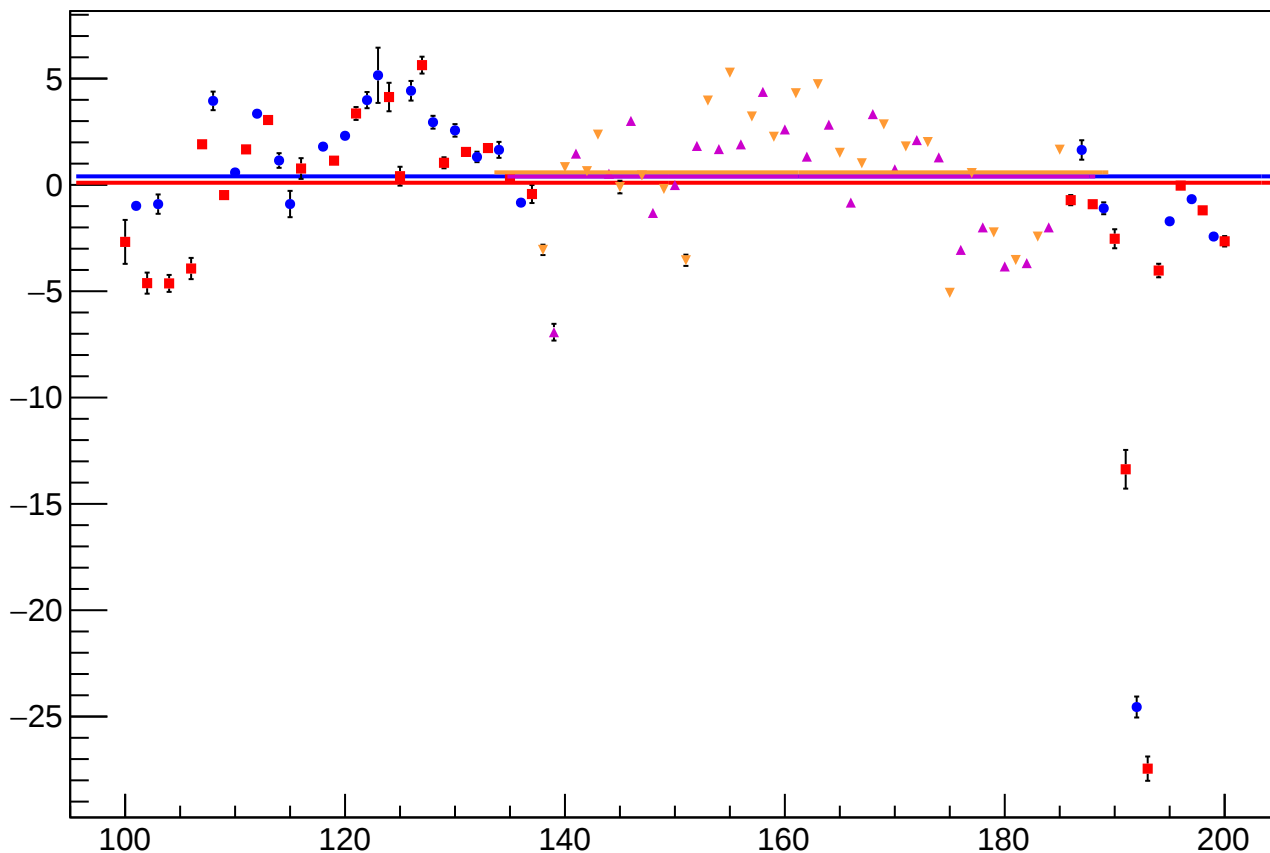
Right: 7.062 ± 0.056 $\chi^2/\text{NDF}: 48869.1/14$

In: -13.411 ± 0.036 $\chi^2/\text{NDF}: 133591.9/28$

Out: -12.594 ± 0.035 $\chi^2/\text{NDF}: 203906.4/33$

All: -12.990 ± 0.025 $\chi^2/\text{NDF}: 337762.9/62$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.401 $\pm$ 0.054 χ^2 /NDF: 3749.7/22

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF: 6796.5/24

Right Out: 0.101 $\pm$ 0.049 χ^2 /NDF: 4156.8/27

Left In: 0.394 $\pm$ 0.032 χ^2 /NDF: 6059.8/22

Left: 0.488 $\pm$ 0.023 χ^2 /NDF: 12874.6/47

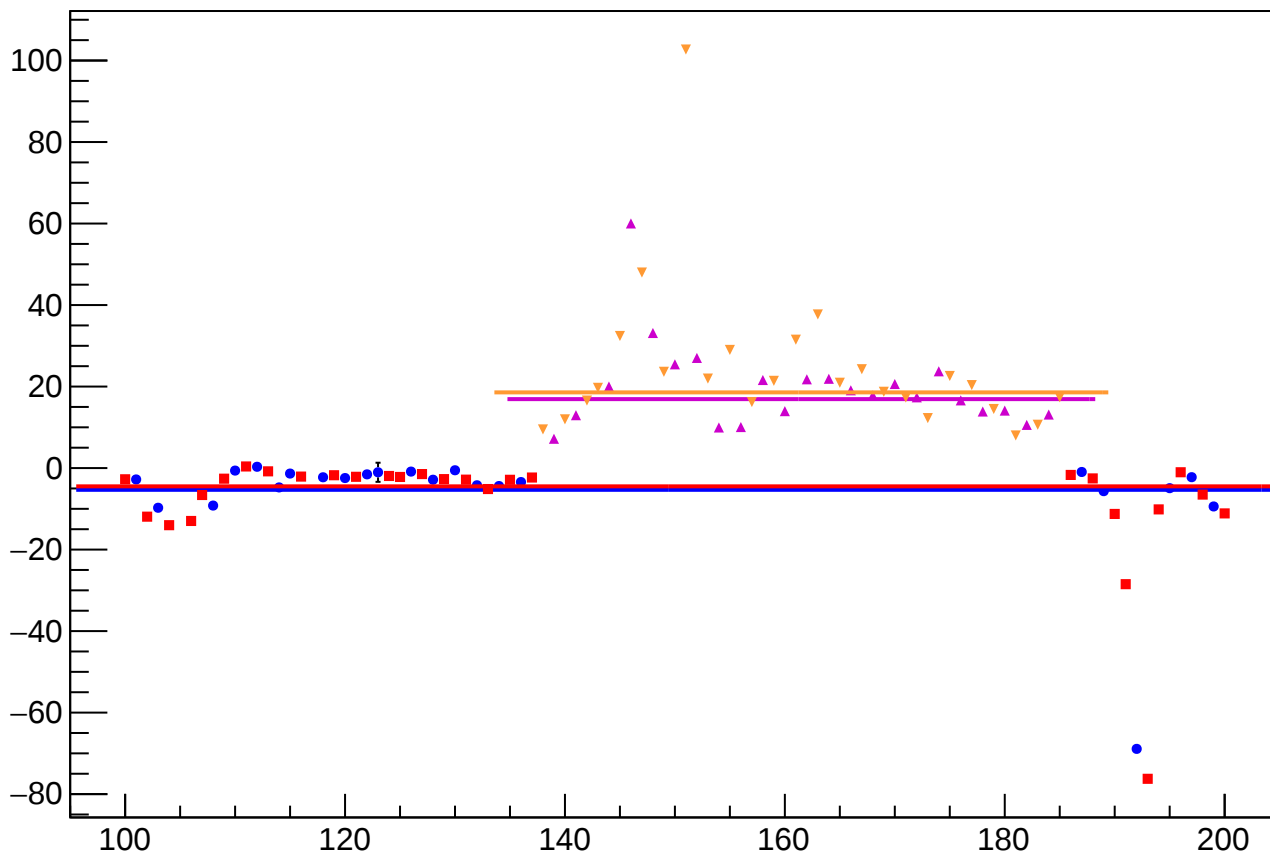
Right: 0.237 $\pm$ 0.036 χ^2 /NDF: 7923.3/50

In: 0.396 $\pm$ 0.027 χ^2 /NDF: 9809.5/45

Out: 0.438 $\pm$ 0.028 χ^2 /NDF: 11020.9/52

All: 0.417 $\pm$ 0.019 χ^2 /NDF: 20831.6/98

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.334 ± 0.064 $\chi^2/\text{NDF}: 25555.1/22$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -4.484 ± 0.052 $\chi^2/\text{NDF}: 26661.8/27$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

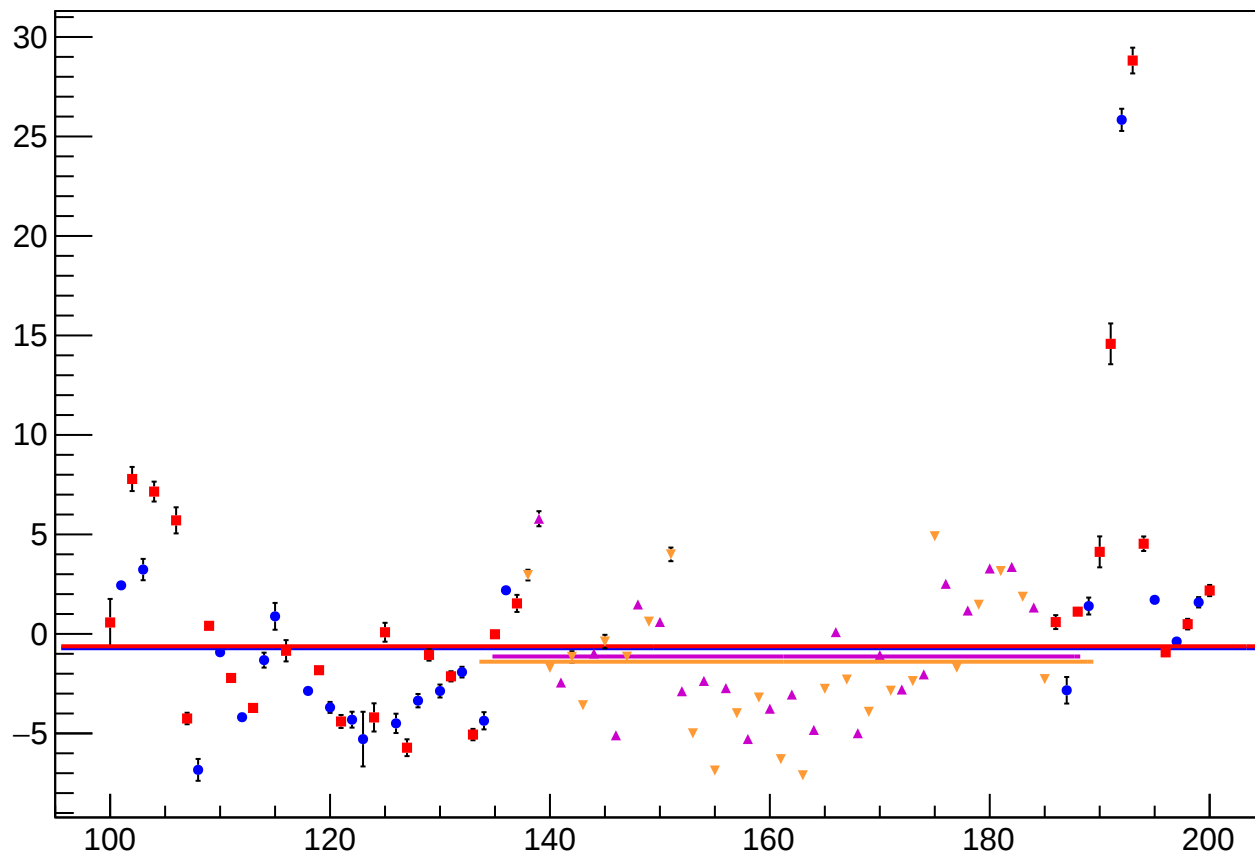
Right: -4.818 ± 0.040 $\chi^2/\text{NDF}: 52323.8/50$

In: 10.923 ± 0.033 $\chi^2/\text{NDF}: 153844.2/45$

Out: 9.828 ± 0.032 $\chi^2/\text{NDF}: 227090.6/52$

All: 10.350 ± 0.023 $\chi^2/\text{NDF}: 381503.1/98$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

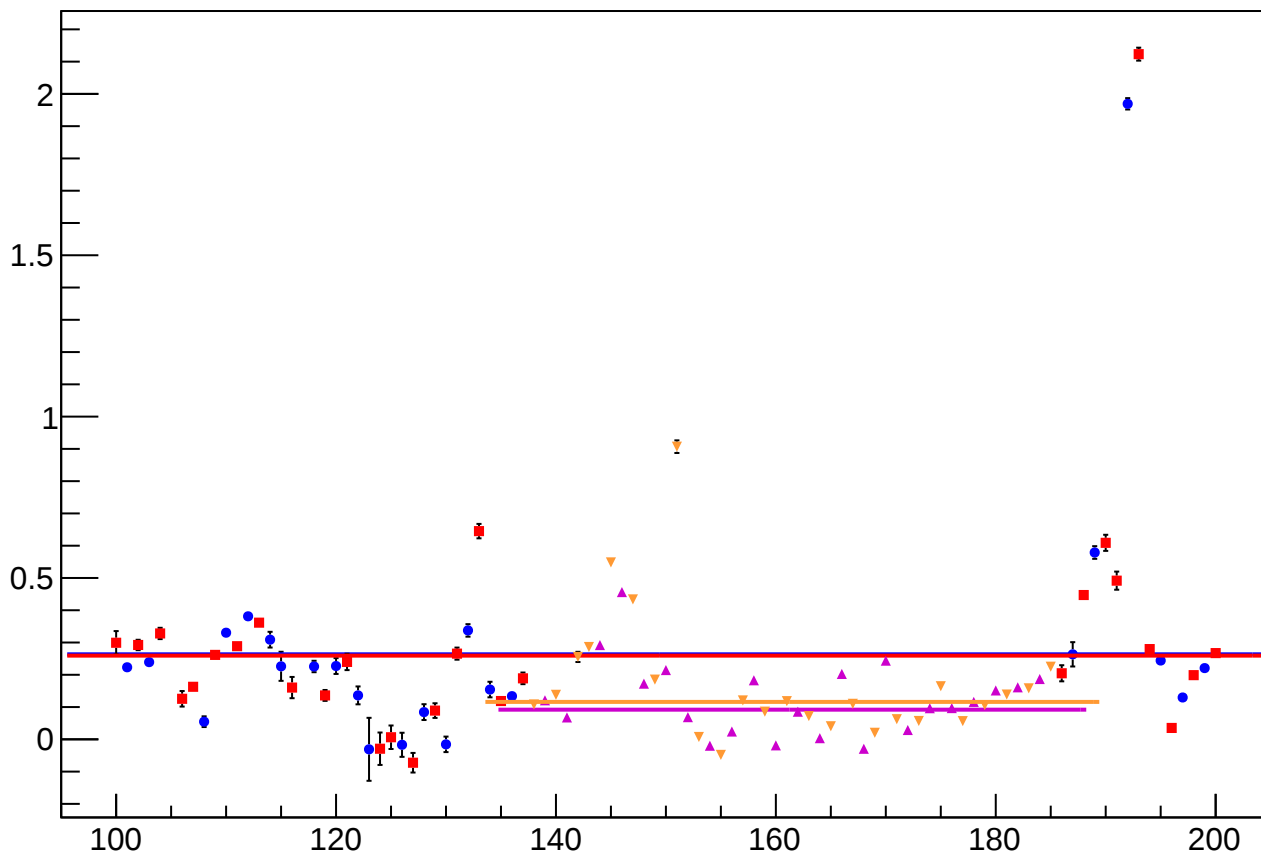


Right In: -0.720 ± 0.064 $\chi^2/\text{NDF}: 3842.2/22$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -0.621 ± 0.058 $\chi^2/\text{NDF}: 4370.8/27$
 Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$
 Right: -0.666 ± 0.043 $\chi^2/\text{NDF}: 8214.3/50$
 In: -1.037 ± 0.031 $\chi^2/\text{NDF}: 10472.5/45$
 Out: -1.173 ± 0.031 $\chi^2/\text{NDF}: 12149.4/52$

All: -1.104 ± 0.022 $\chi^2/\text{NDF}: 22631.5/98$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.263 $\pm$ 0.003 χ^2 /NDF: 10751.6/22

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.259 $\pm$ 0.003 χ^2 /NDF: 11060.6/27

Left In: 0.092 $\pm$ 0.002 χ^2 /NDF:3631.4/22

Left: 0.103 $\pm$ 0.001 χ^2 /NDF: 8207.3/47

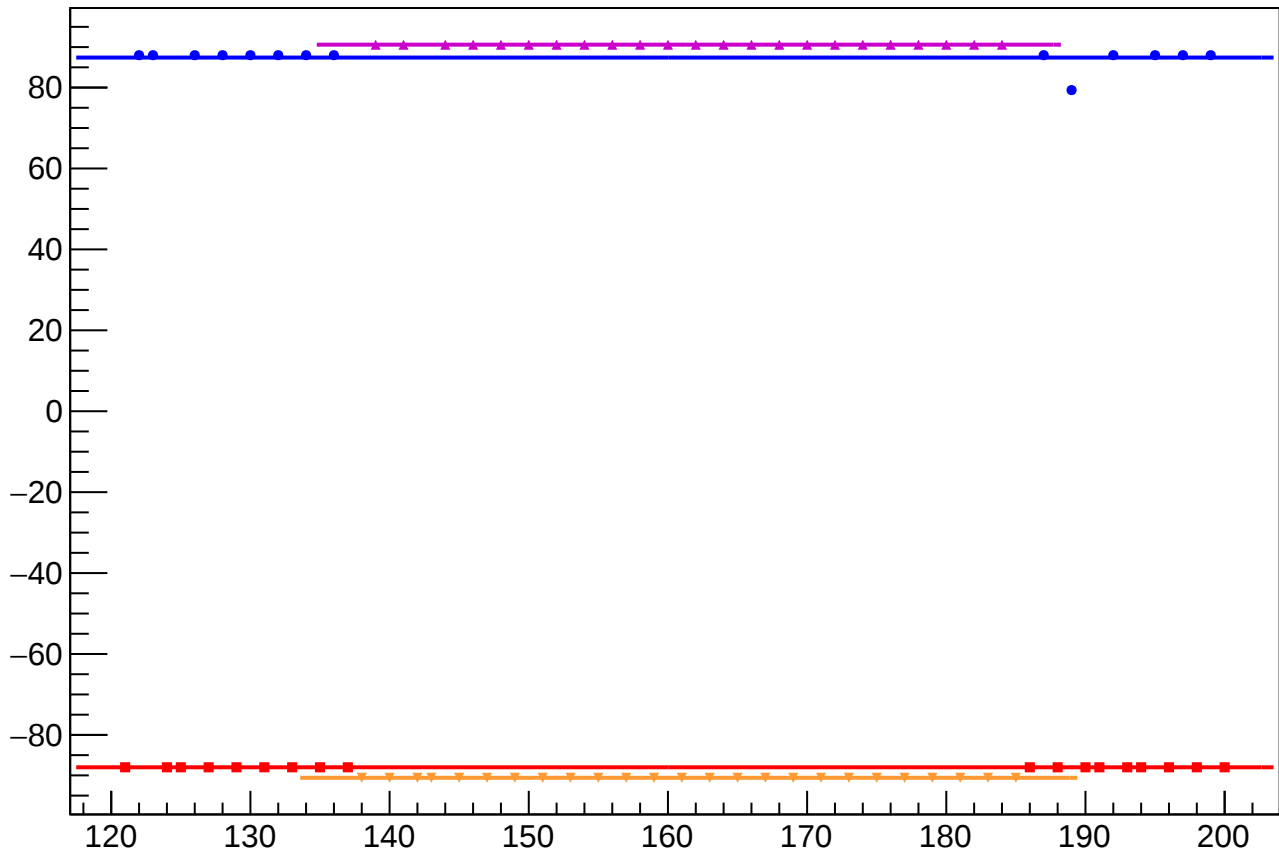
Right: 0.261 $\pm$ 0.002 χ^2 /NDF: 21813.2/50

In: 0.129 $\pm$ 0.001 χ^2 /NDF:17007.0/45

Out: 0.155 $\pm$ 0.001 χ^2 /NDF:17580.2/52

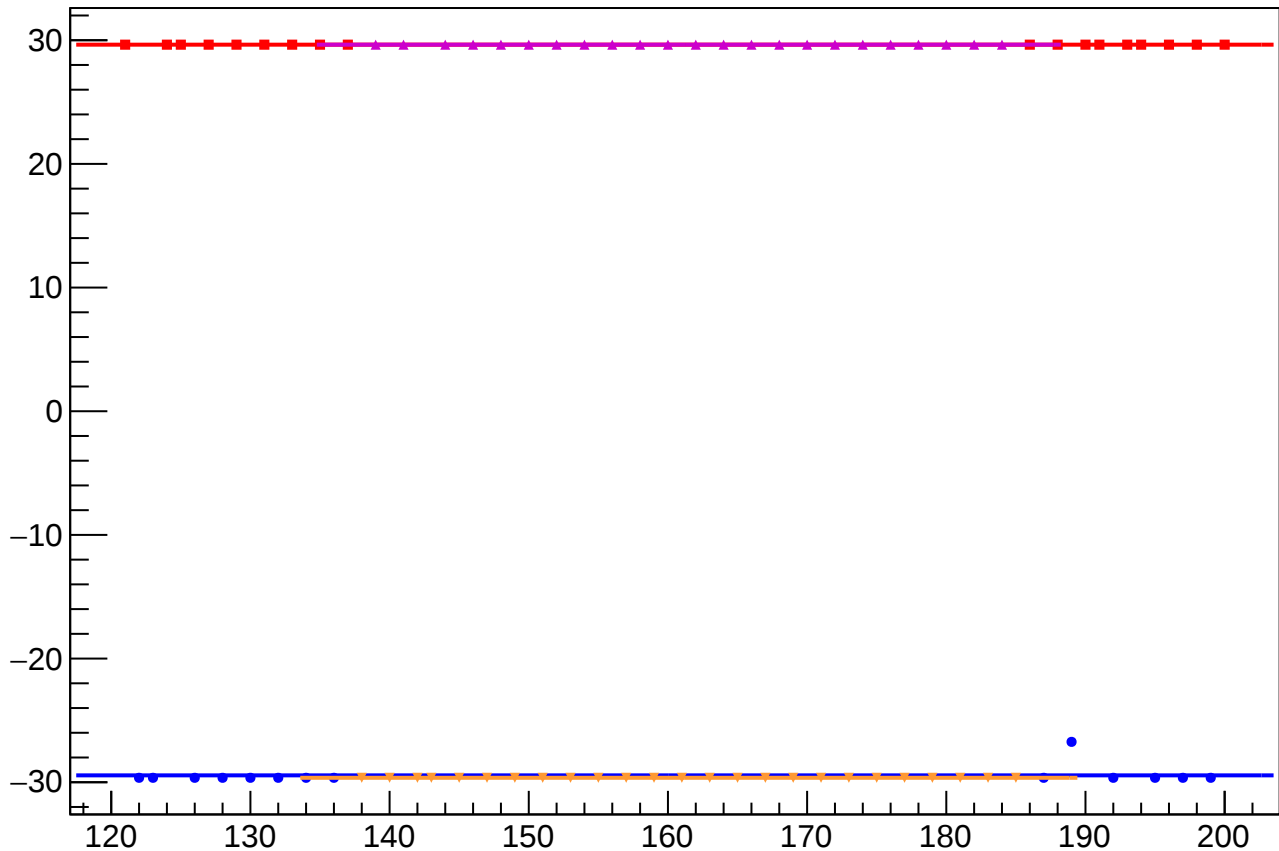
All: 0.142 $\pm$ 0.001 χ^2 /NDF: 34765.9/98

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.415+/-0.000 χ^2/NDF : 3538345360007657214568451874488320.0/13
 Left Out: -90.599+/-0.000 χ^2/NDF : 6053403.0/24
 Right Out: -88.001+/-0.000 χ^2/NDF : 1158577.9/17
 Left In: 90.599+/-0.000 χ^2/NDF : 5932436.0/22
 In: 89.666+/-0.000 χ^2/NDF : 892175442776066829
 Out: -89.750+/-0.000 χ^2/NDF : 4217409106816959
 All: -4.627+/-0.000 χ^2/NDF : 4335596602677

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.443+/-0.000

χ^2/NDF : 401425483160399233181062189285376.0/13

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641+/-0.000

χ^2/NDF : 1371986.9/17

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000

χ^2/NDF : 32668496095314519

Right: 3.213+/-0.000

χ^2/NDF : 14494333271719046

In: 12.321+/-0.000

χ^2/NDF : 185359161207802554

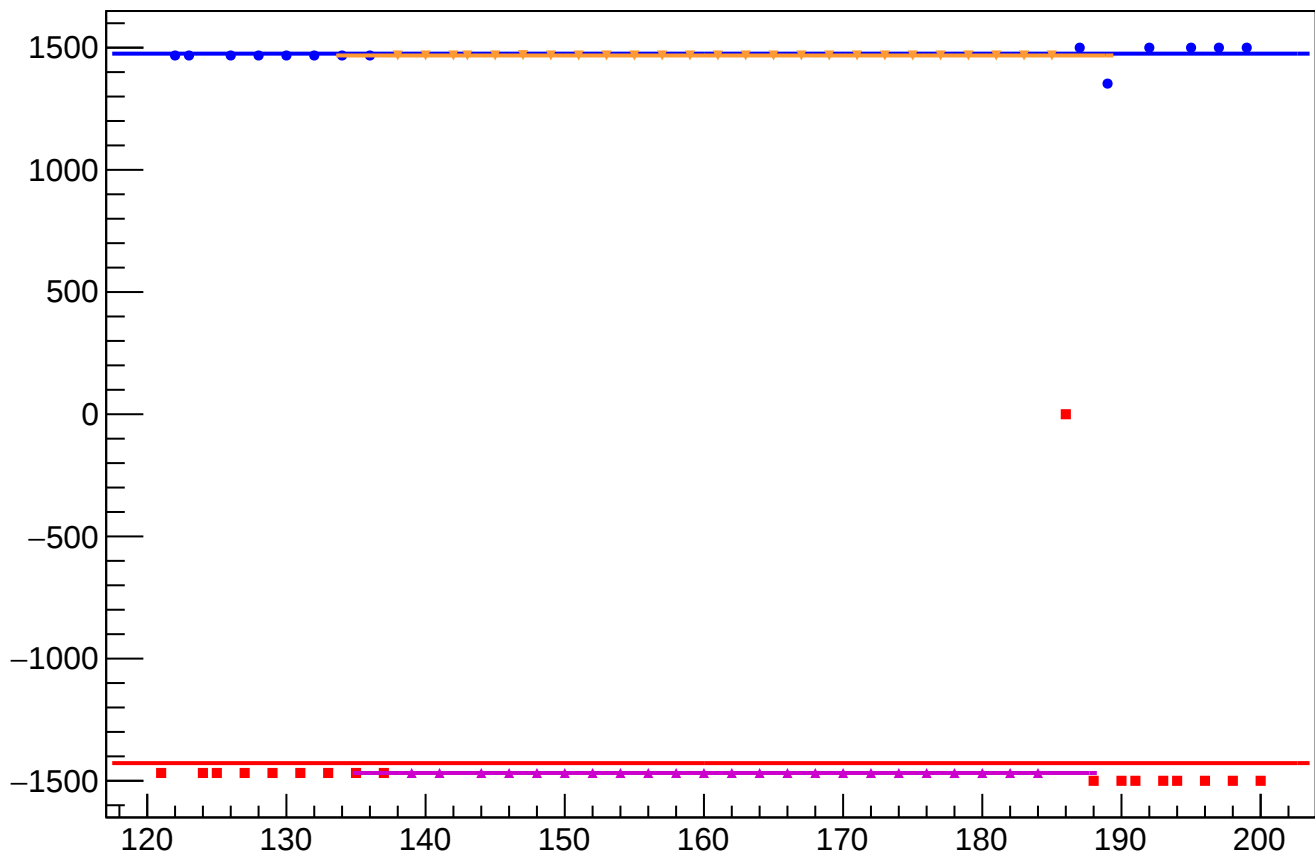
Out: -10.256+/-0.000

χ^2/NDF : 2194855567958114

All: 0.456+/-0.000

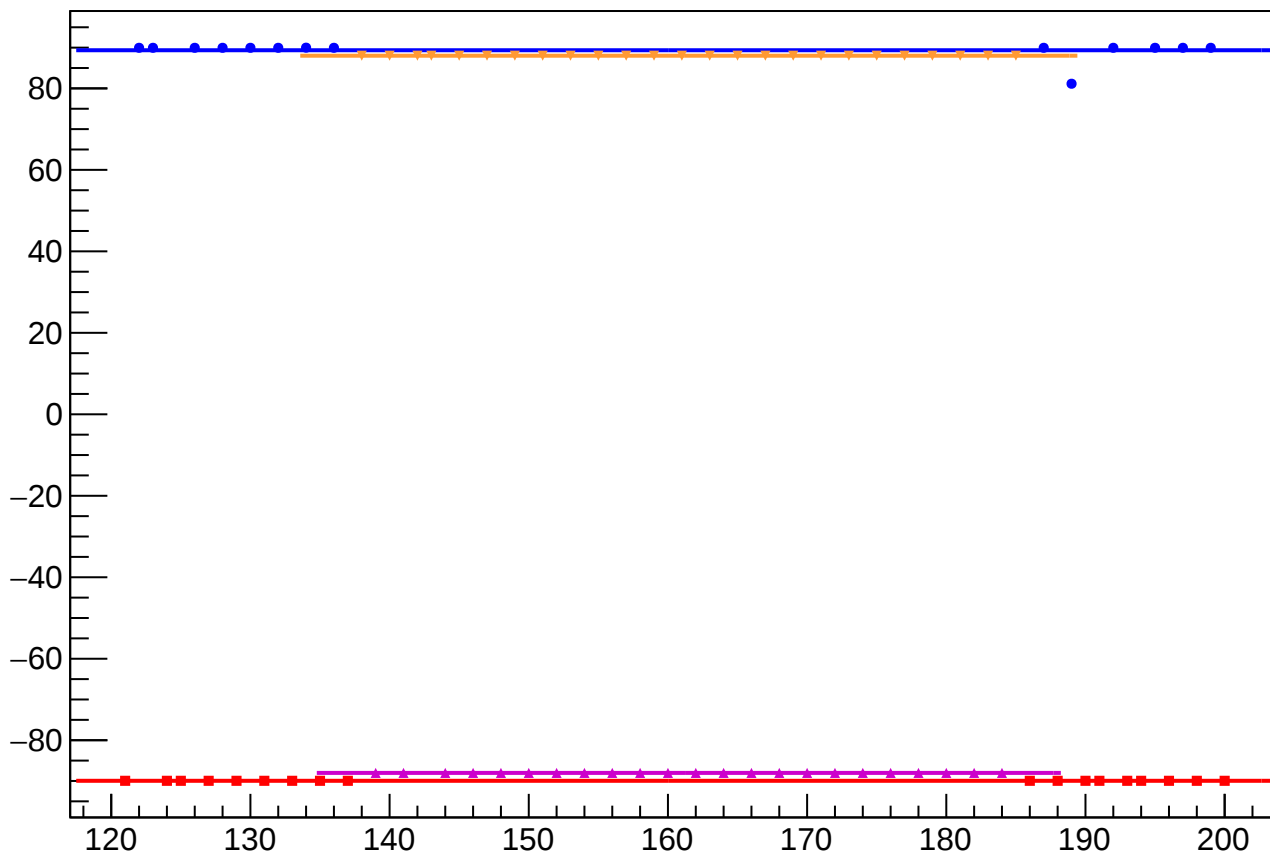
χ^2/NDF : 47348090516213

psub_pl_pos_mean vs Slug, Sign Corrected



Left: 39.085 ± 0.000 $\chi^2/\text{NDF}: 80133946076775322.0/13$
 Right: -129.068 ± 0.000 $\chi^2/\text{NDF}: 35805412283186.0/13$
 In: -605.149 ± 0.000 $\chi^2/\text{NDF}: 4600633806993894.0/24$
 Out: 521.184 ± 0.000 $\chi^2/\text{NDF}: 5317843754076709.0/17$
 All: -13.198 ± 0.000 $\chi^2/\text{NDF}: 116266491246.0/22$

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.361+/-0.000 χ^2/NDF : 3698454601282448954642109959241728.0/13

Left Out: 88.021+/-0.000 χ^2/NDF : 5326388.8/24

Right Out: -89.959+/-0.000 χ^2/NDF : 2932492.6/17

Left In: -88.021+/-0.000 χ^2/NDF : 6084099.2/22

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

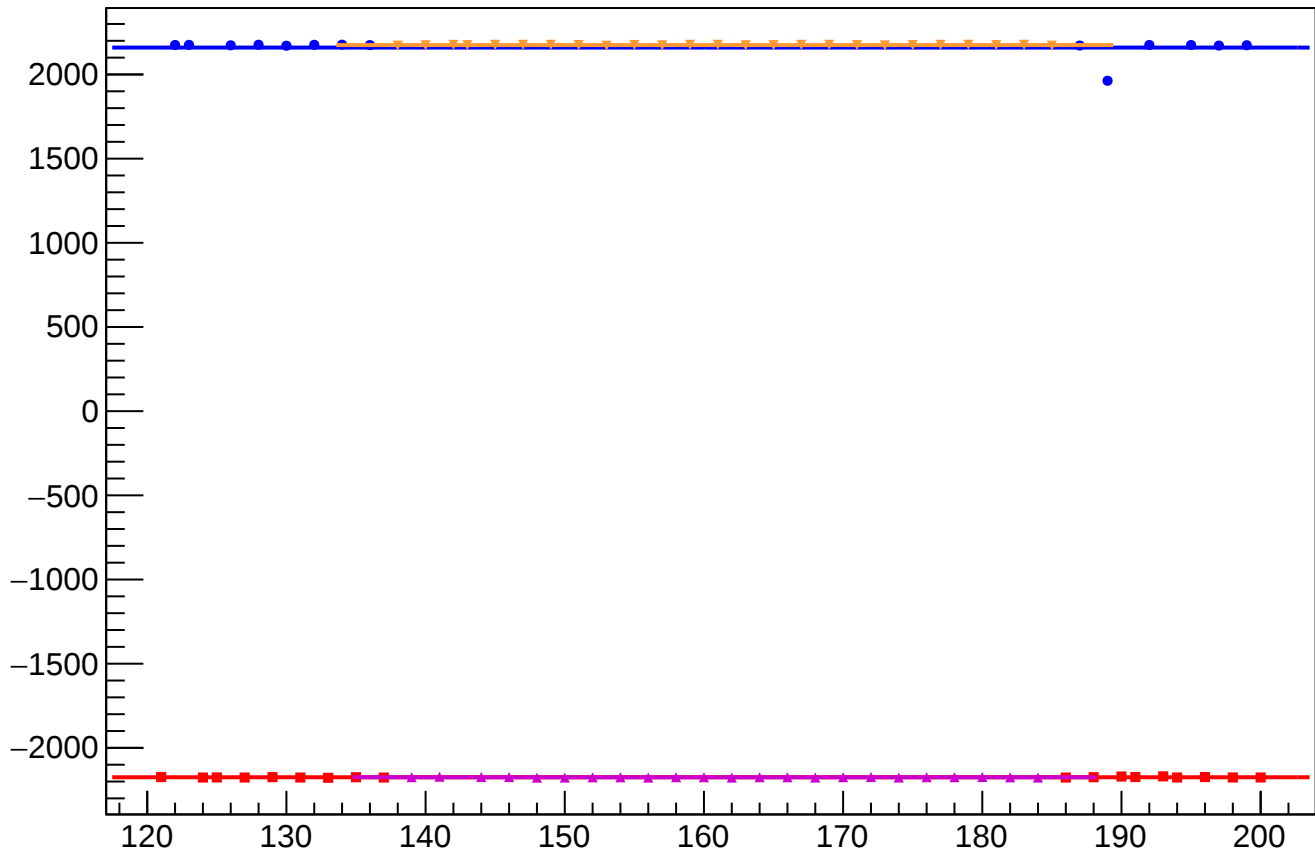
Right: -9.751+/-0.000 χ^2/NDF : 1335112454666370

In: -36.025+/-0.000 χ^2/NDF : 16706846386632558

Out: 29.823+/-0.000 χ^2/NDF : 19783874901829425

All: -1.418+/-0.000 χ^2/NDF : 4232889086192

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2159.802+/-0.000

χ^2/NDF : 2129554453218760486399371524767219712.0/13

Left Out: 2174.622+/-0.000

χ^2/NDF : 5110578135476093110874911595823104.0/24

Right Out: -2174.524+/-0.000

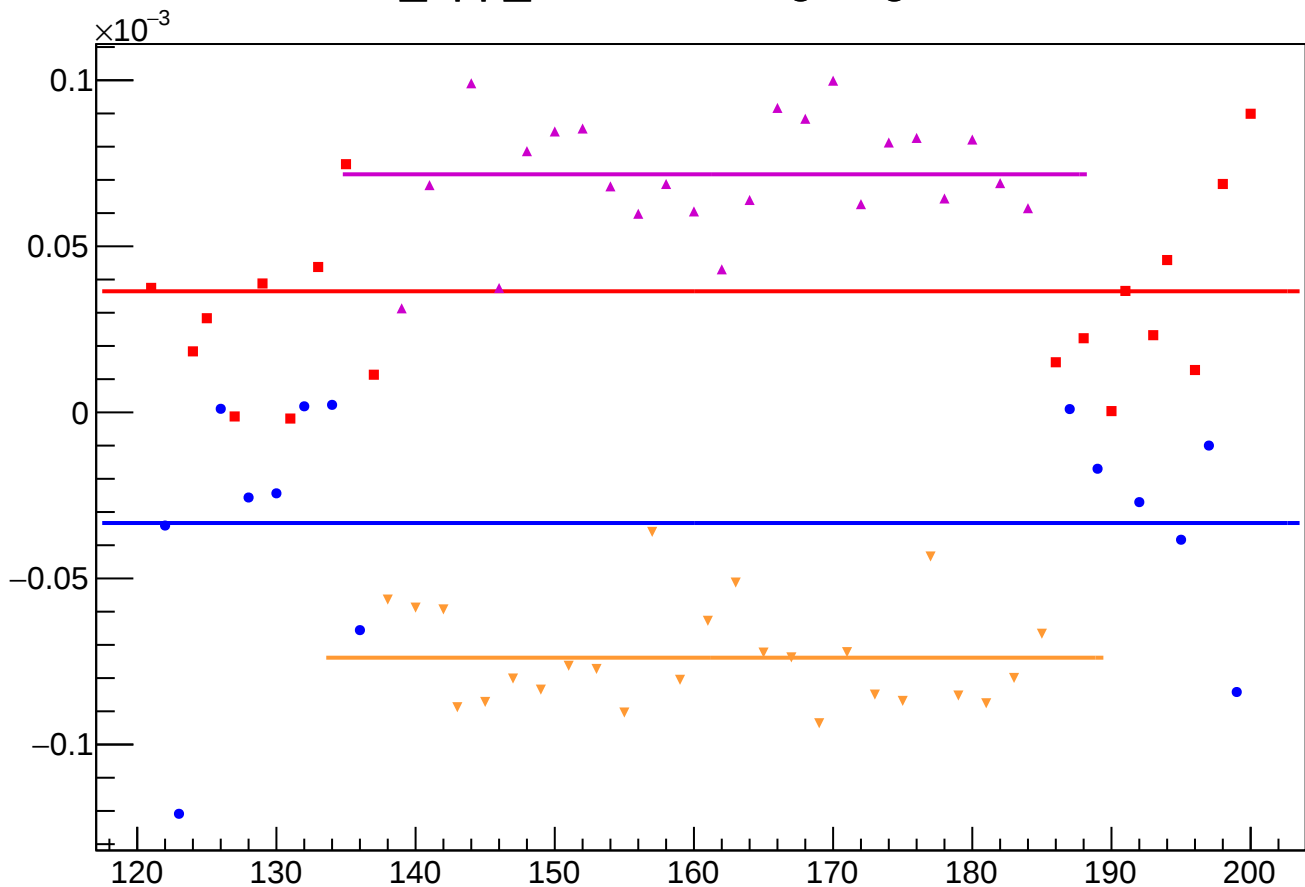
χ^2/NDF : 4381111698596969762802917579948032.0/17

Left In: -2174.539+/-0.000

χ^2/NDF : 3400742562425168967494665391570944.0/22

Left: 57.898+/-0.000 χ^2/NDF : 17583418754650851
 Right: -235.824+/-0.000 χ^2/NDF : 78000819555529
 In: -904.012+/-0.000 χ^2/NDF : 9975121254951197
 Out: 752.491+/-0.000 χ^2/NDF : 1181346622023443
 All: -33.428+/-0.000 χ^2/NDF : 254833138402

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000

$\chi^2/\text{NDF}: 563830598887660087934976.0/13$

Left: -0.000 ± 0.000

$\chi^2/\text{NDF}: 20702696564433151$

Right: 0.000 ± 0.000

$\chi^2/\text{NDF}: 32756216045362036$

Left Out: -0.000 ± 0.000

$\chi^2/\text{NDF}: 450400934180541069000704.0/24$

In: 0.000 ± 0.000

$\chi^2/\text{NDF}: 6977589587310798415$

Right Out: 0.000 ± 0.000

$\chi^2/\text{NDF}: 691133608103146051076096.0/17$

Out: -0.000 ± 0.000

$\chi^2/\text{NDF}: 87426770324722850$

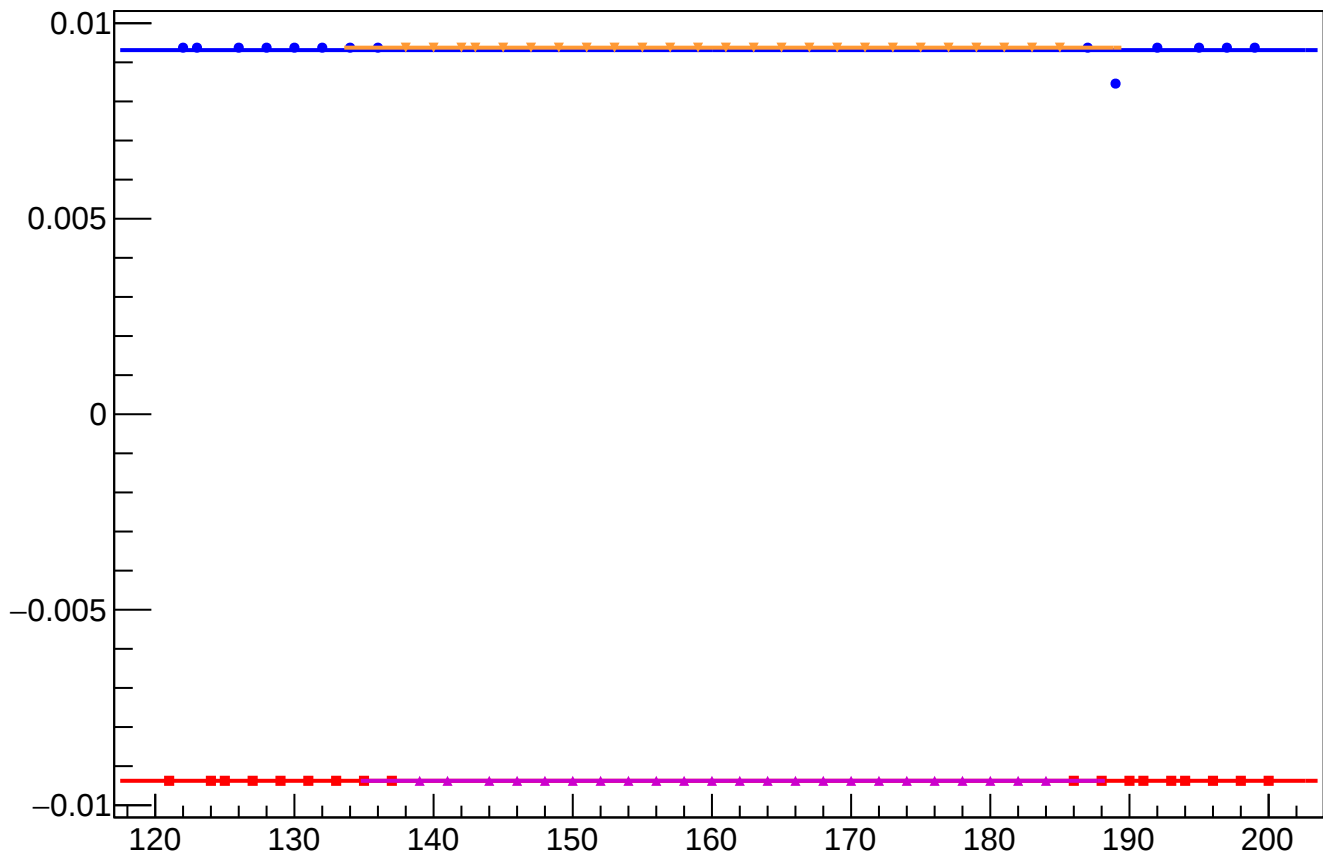
Left In: 0.000 ± 0.000

$\chi^2/\text{NDF}: 562166279020739416817664.0/22$

All: -0.000 ± 0.000

$\chi^2/\text{NDF}: 2405761580072$

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40157853254483334458769408.0/13

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/17

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1449985944999646

In: -0.004+/-0.000

χ^2/NDF : 185429832121116367

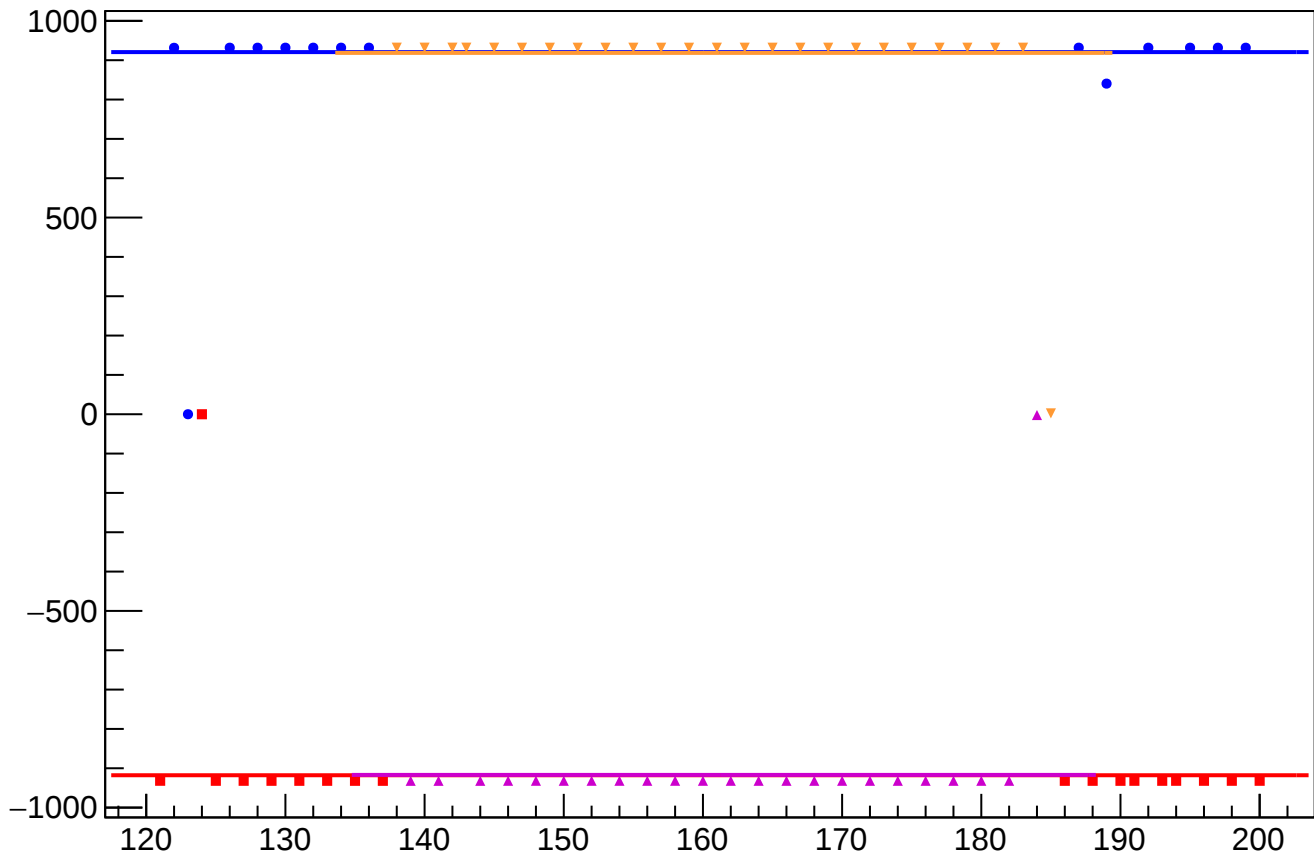
Out: 0.003+/-0.000

χ^2/NDF : 219569238900633655

All: -0.000+/-0.000

χ^2/NDF : 4736614267386

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 920.625+/-0.000

χ^2/NDF : 3804190369618180978650467391384846336.0/13

Left Out: 918.645+/-0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

Right Out: -917.748+/-0.000

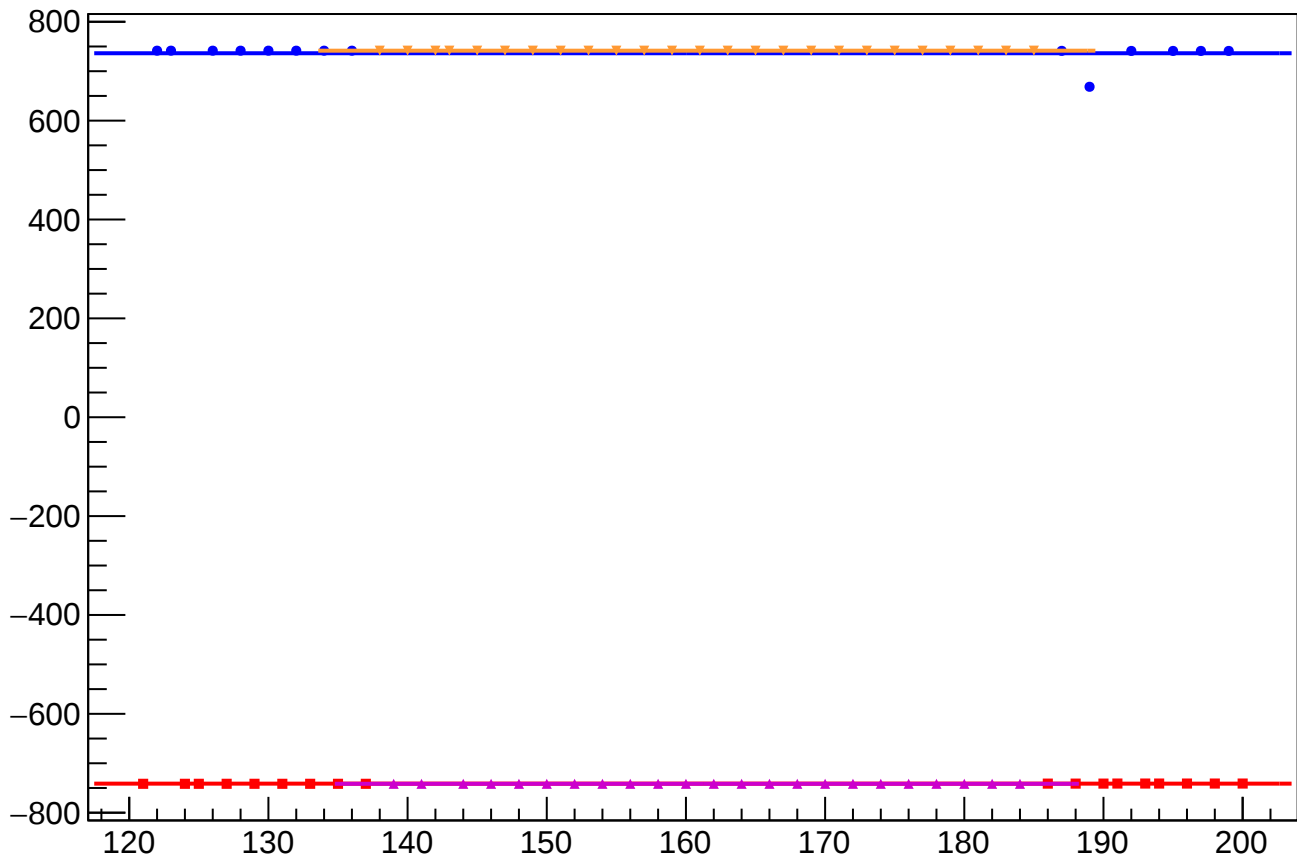
χ^2/NDF : 11971439823183225945788962182384320512.0/17

Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

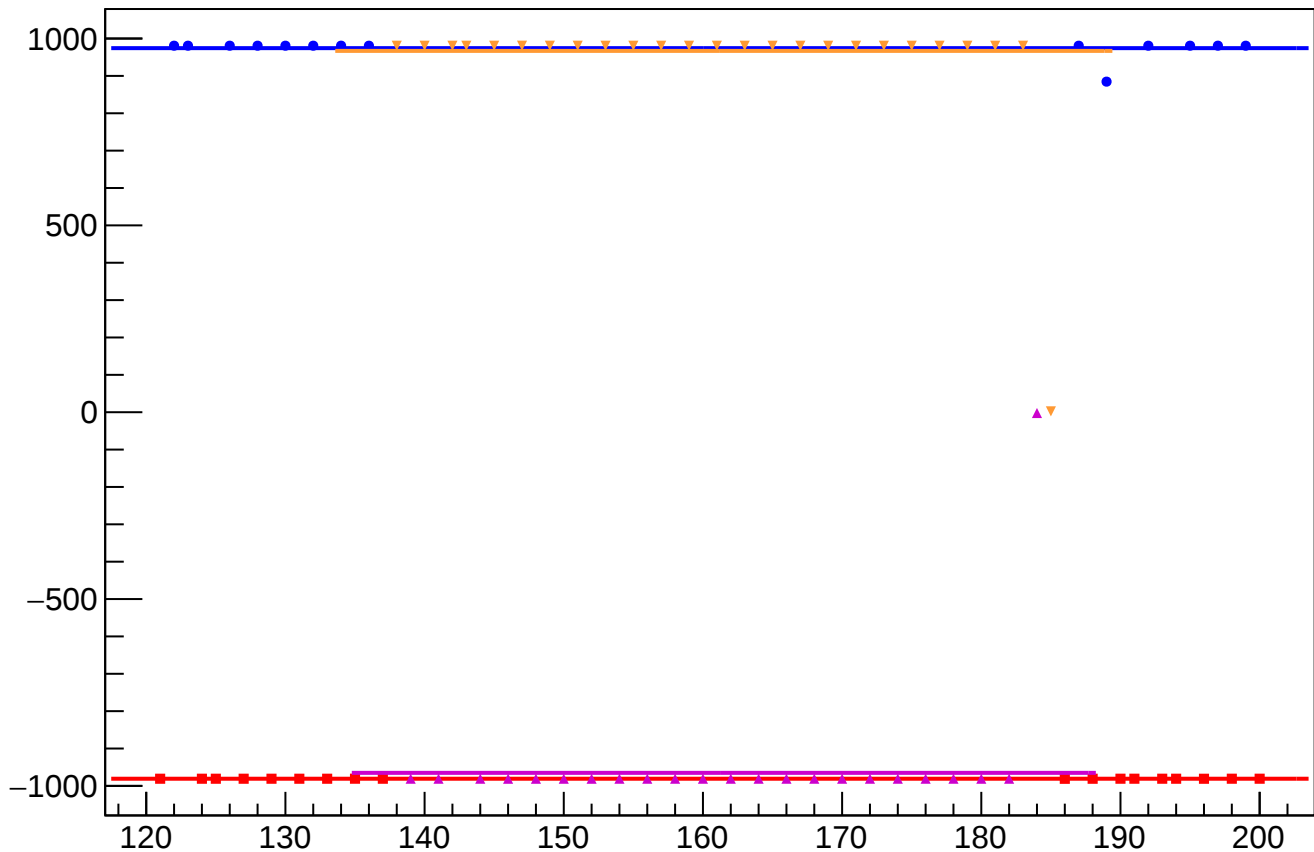
Left: 25.295+/-0.000 χ^2/NDF : 31796385721824018
 Right: -95.462+/-0.000 χ^2/NDF : 141860353400436
 In: -378.258+/-0.000 χ^2/NDF : 1820897111345526
 Out: 318.161+/-0.000 χ^2/NDF : 2141176285391926
 All: -12.251+/-0.000 χ^2/NDF : 461511315795

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 736.330+/-0.000 χ^2/NDF : 251782055934016423867229195384913920.0/13
 Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24
 Right Out: -741.222+/-0.000 χ^2/NDF : 47346207216501599857247669714944.0/17
 Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22
 All: -11.381+/-0.000 χ^2/NDF : 296254223394

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.288+/-0.000

χ^2/NDF : 439735995374896688966240975586328576.0/13

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.831+/-0.000

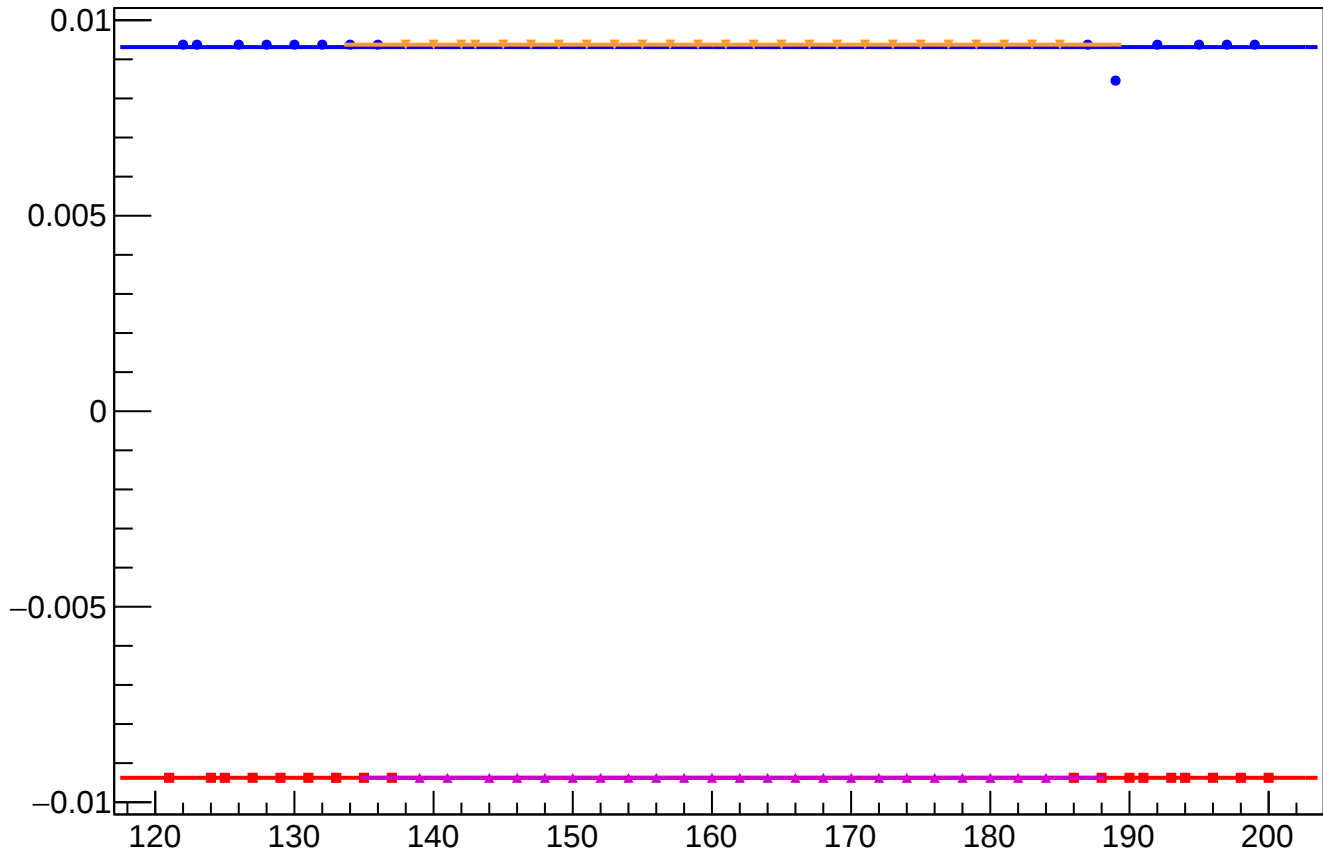
χ^2/NDF : 2905315201279300639803742093312.0/17

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: -14.717+/-0.000 χ^2/NDF : 513031605727

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40157853254483334458769408.0/13

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/17

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1449985944999646

In: -0.004+/-0.000

χ^2/NDF : 185429832121116367

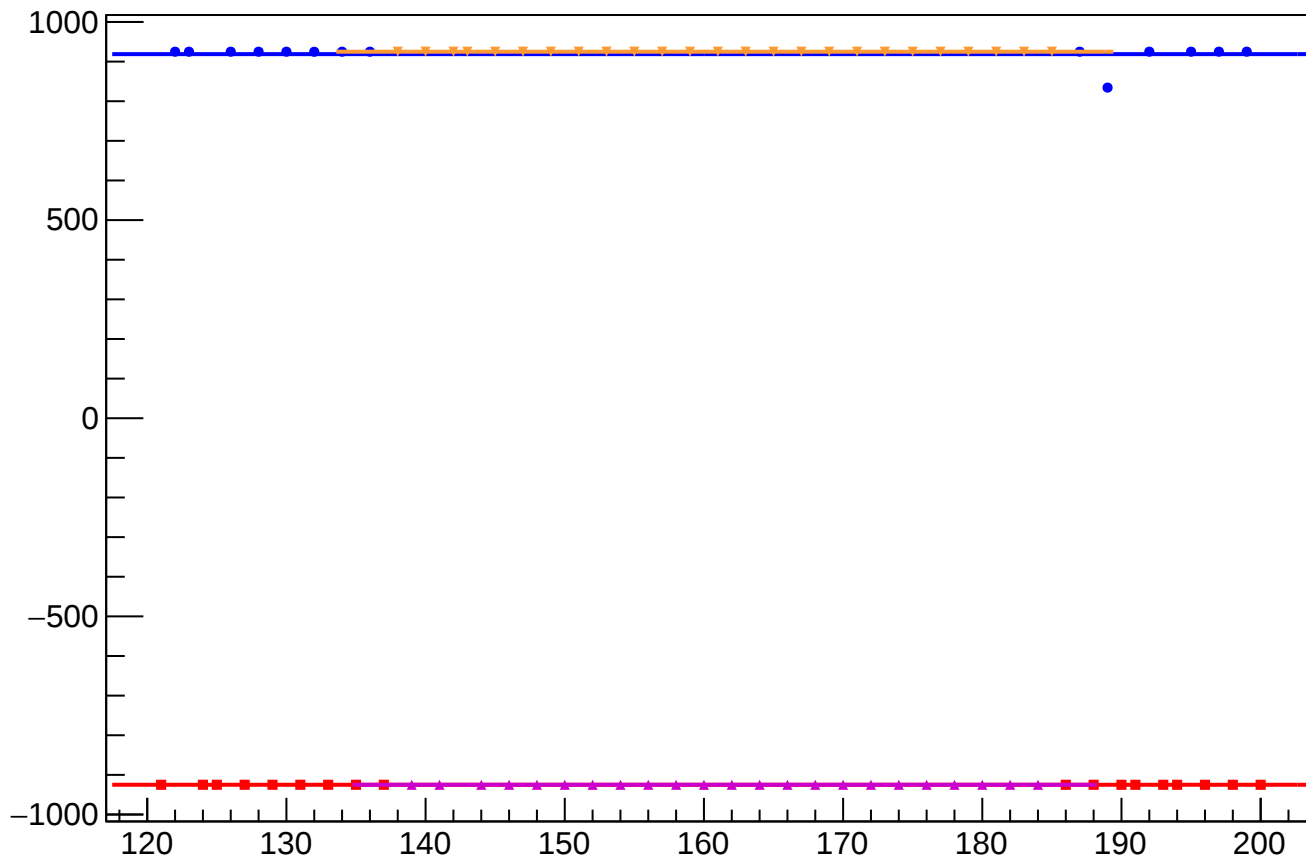
Out: 0.003+/-0.000

χ^2/NDF : 219569238900633655

All: -0.000+/-0.000

χ^2/NDF : 4736614267386

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 918.823+/-0.000 χ^2/NDF : 390522818787791618533520310389440512.0/13

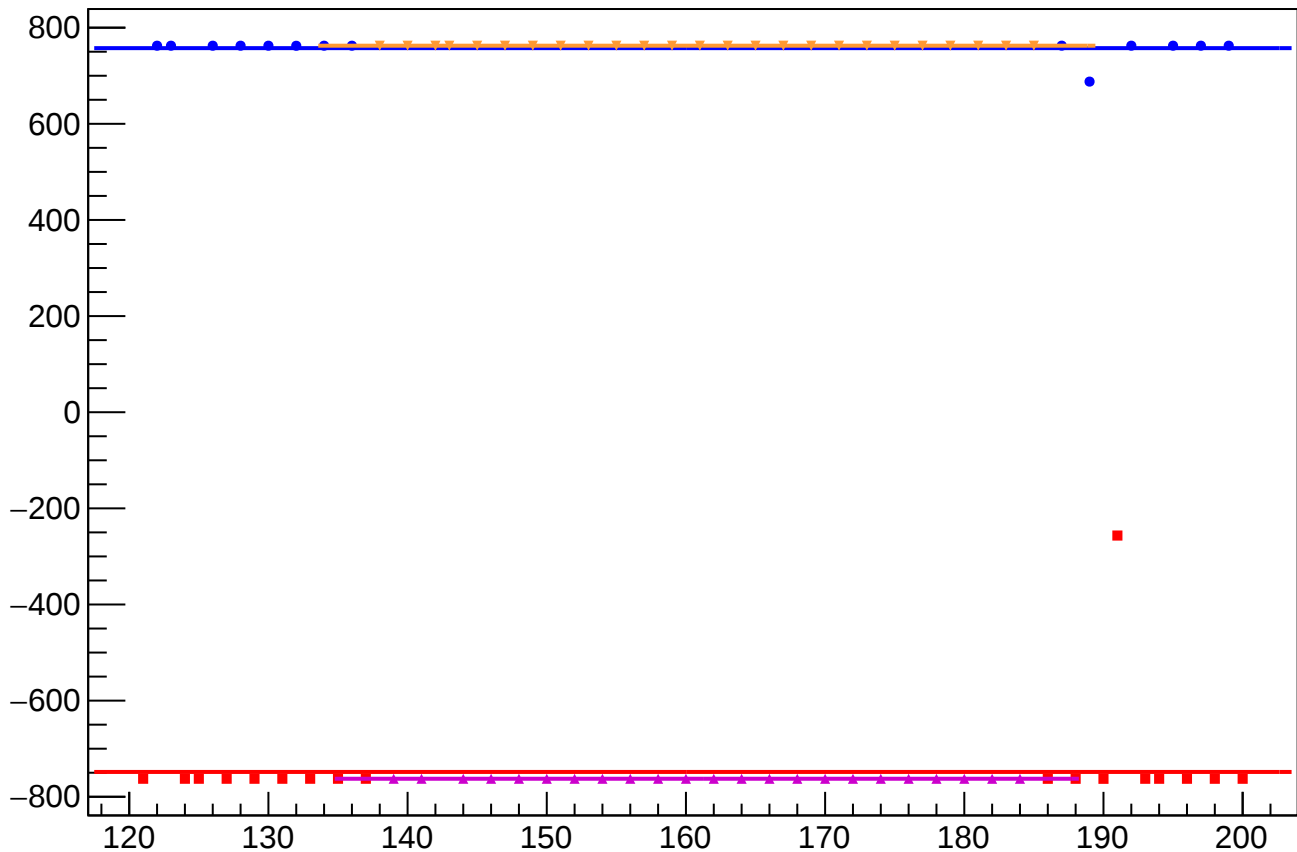
Left Out: 924.983+/-0.000 χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.993+/-0.000 χ^2/NDF : 776362329541842193364916633600.0/17

Left In: -924.983+/-0.000 χ^2/NDF : 888539224321534960792212865024.0/22

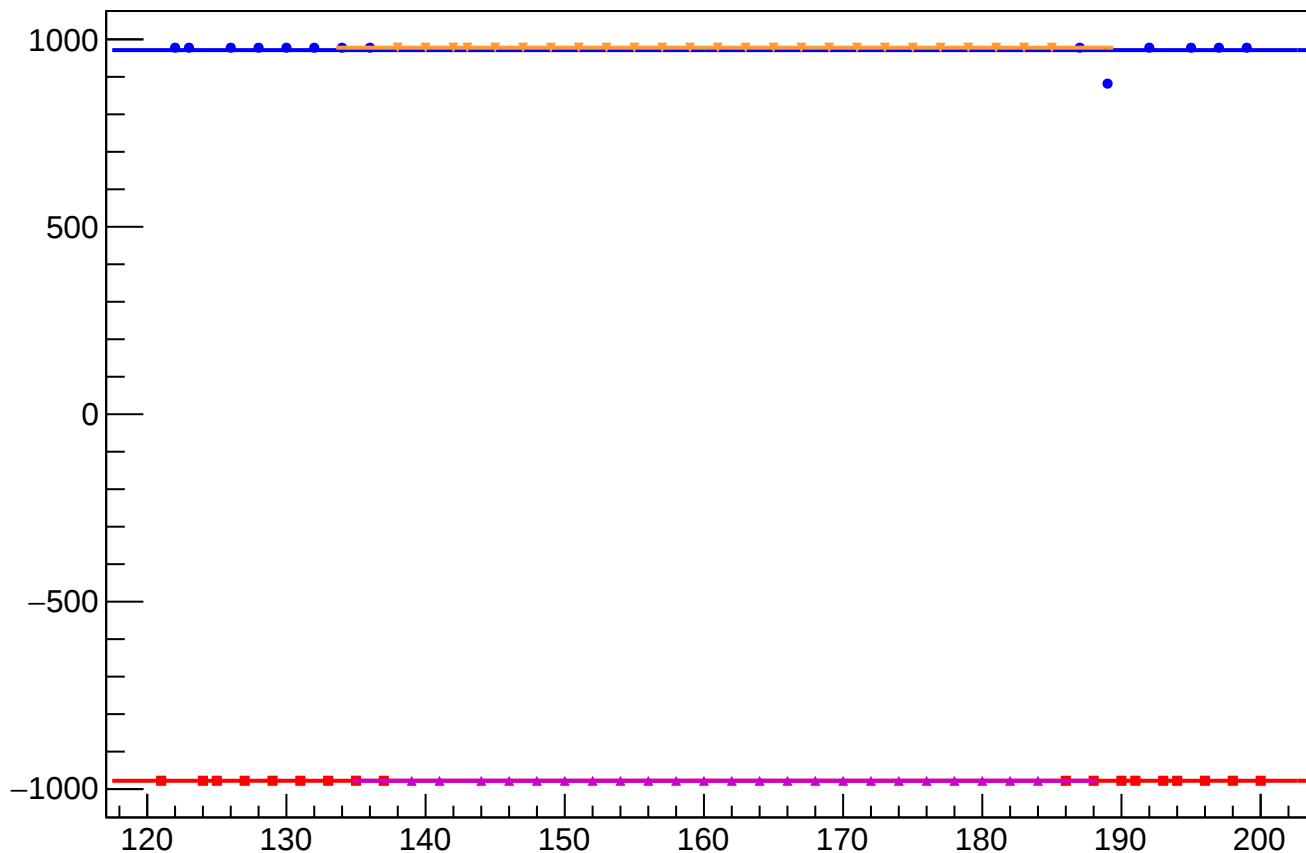
All: -14.219+/-0.000 χ^2/NDF : 461098935507

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 757.435+/-0.000 χ^2/NDF : 265234076346117557753876802112061440.0/13
 Left Out: 762.518+/-0.000 χ^2/NDF : 731741258759628909874415403008.0/24
 Right Out: -748.353+/-0.000 χ^2/NDF : 6469875895169304867817000286619172864.0/17
 Left In: -762.519+/-0.000 χ^2/NDF : 629058355419214408155297480704.0/22
 All: -9.287+/-0.000 χ^2/NDF : 3120353603981

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 971.245+/-0.000 χ^2/NDF : 436576269148420748179436968202993664.0/13

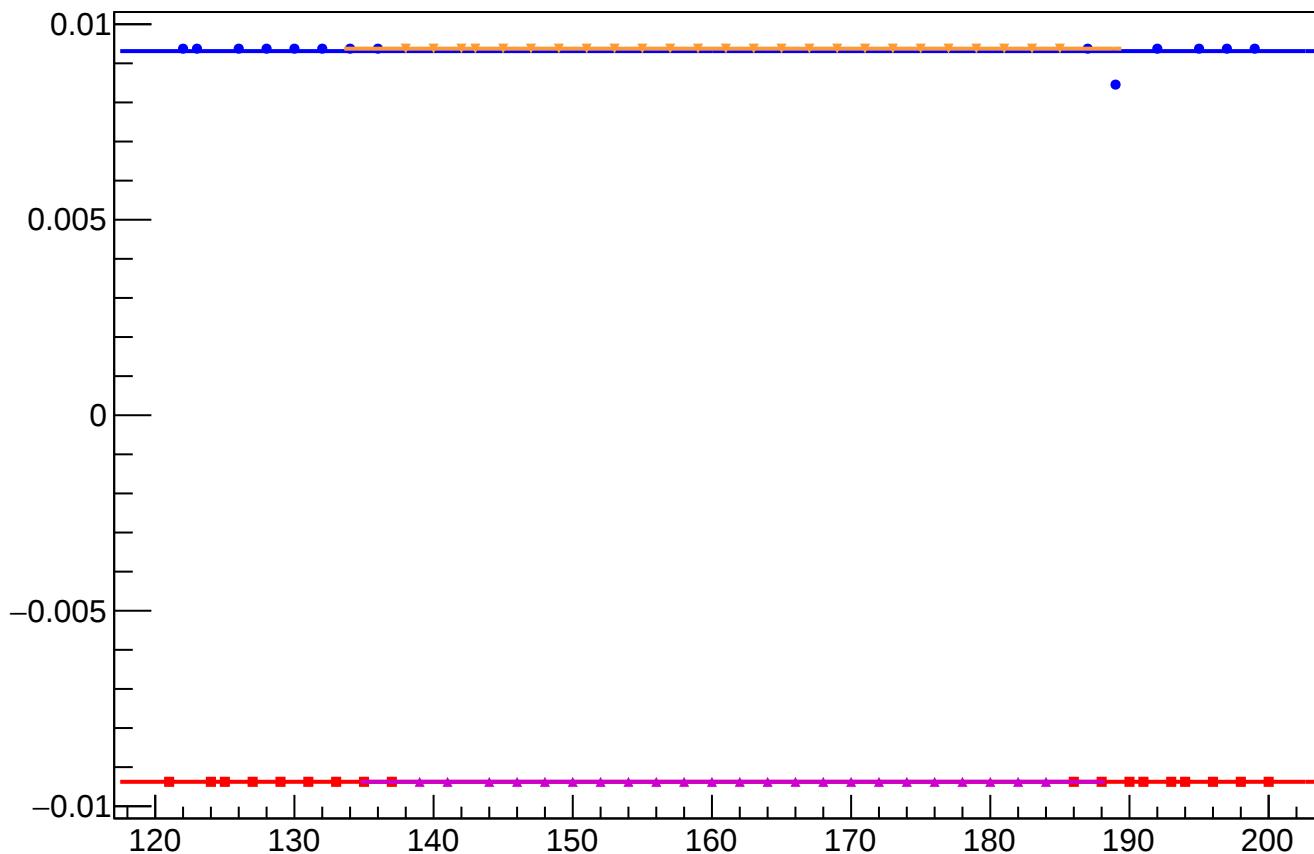
Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24

Right Out: -977.751+/-0.000 χ^2/NDF : 1762305474556793661717871591424.0/17

Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22

All: -15.027+/-0.000 χ^2/NDF : 515197121434

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40157853254483334458769408.0/13

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/17

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1449985944999646

In: -0.004+/-0.000

χ^2/NDF : 185429832121116367

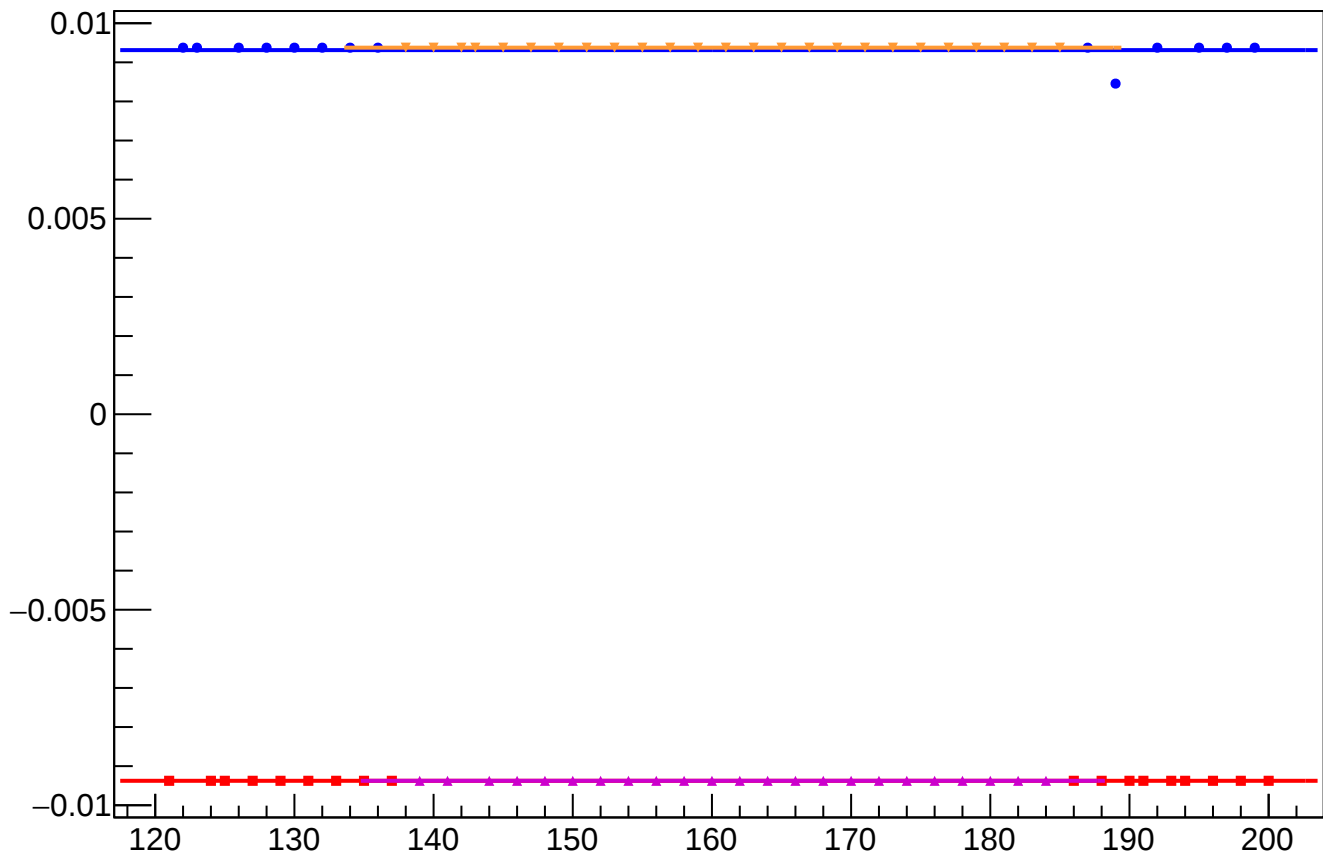
Out: 0.003+/-0.000

χ^2/NDF : 219569238900633655

All: -0.000+/-0.000

χ^2/NDF : 4736614267386

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40157853254483334458769408.0/13

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/17

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000

χ^2/NDF : 1449985944999646

In: -0.004+/-0.000

χ^2/NDF : 185429832121116367

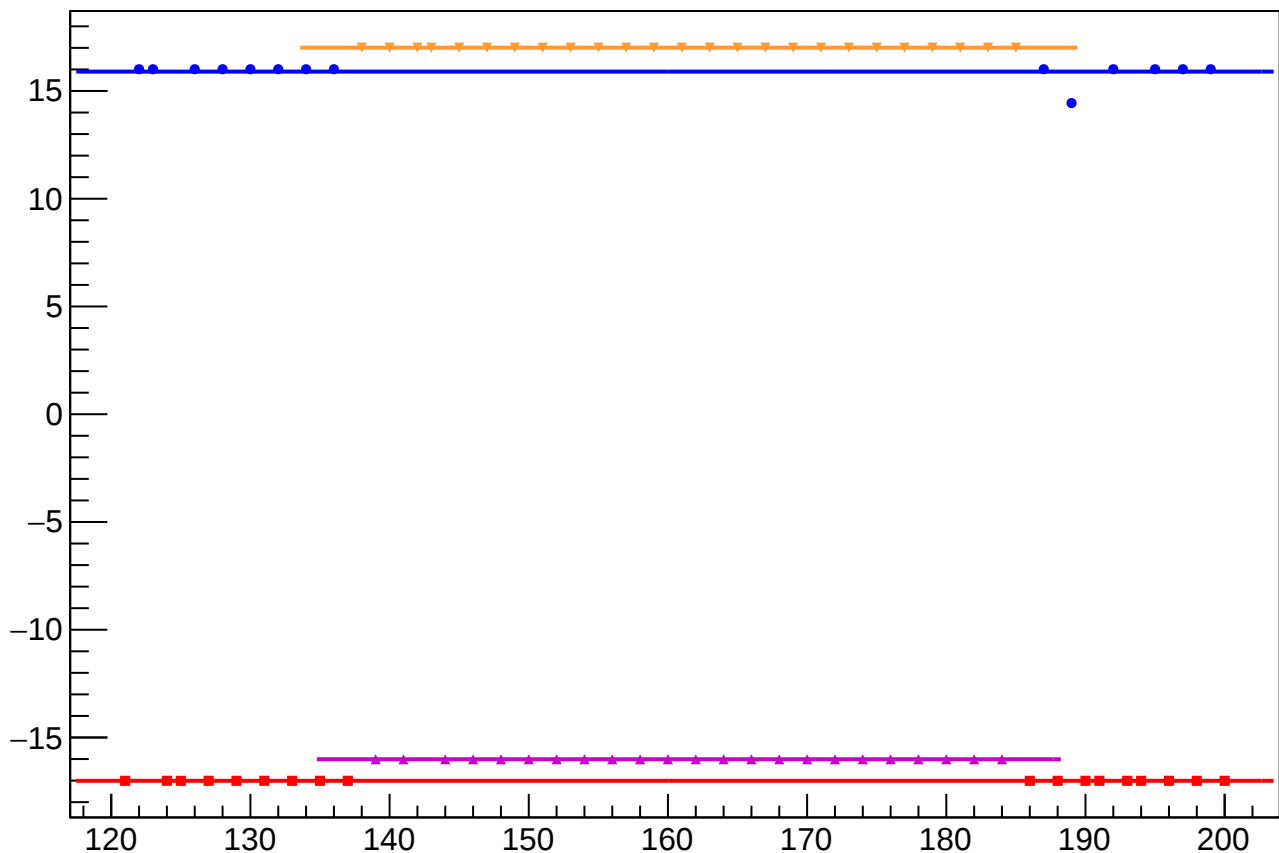
Out: 0.003+/-0.000

χ^2/NDF : 219569238900633655

All: -0.000+/-0.000

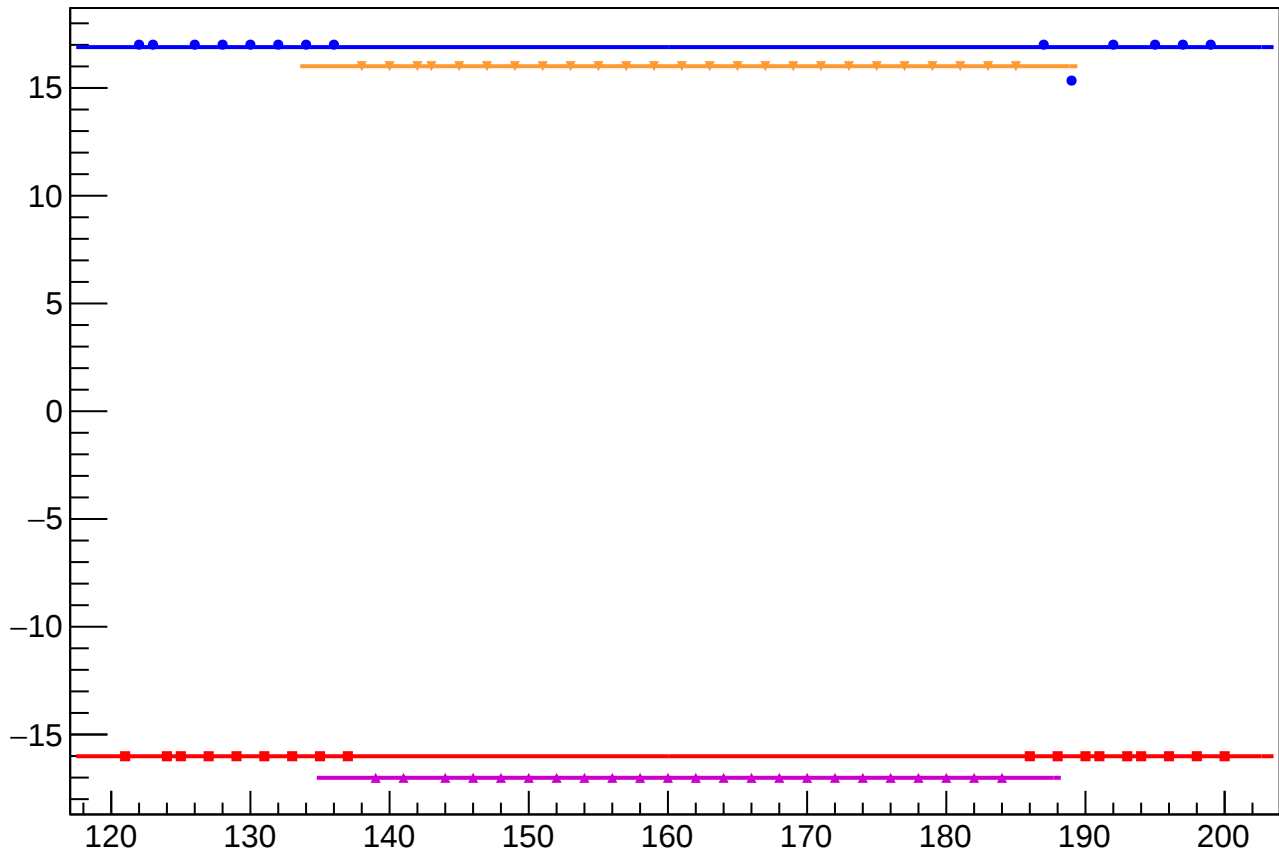
χ^2/NDF : 4736614267386

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



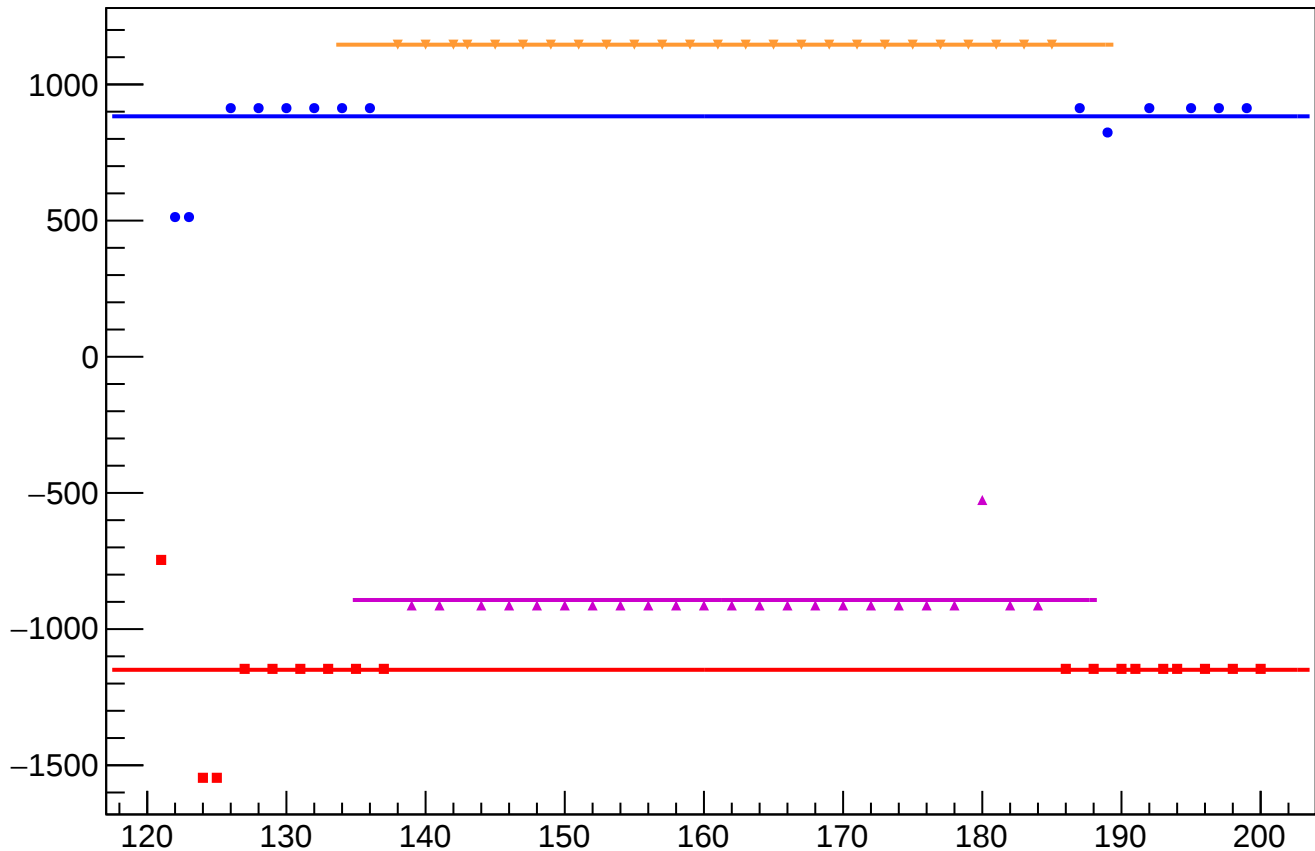
Right In: 15.899+/-0.000 χ^2/NDF : 116799363920405107476710731808768.0/13
 Left Out: 17.009+/-0.000 χ^2/NDF : 26284444608576238643052544.0/24
 Right Out: -17.009+/-0.000 χ^2/NDF : 13521441142497224035401728.0/17
 Left In: -16.009+/-0.000 χ^2/NDF : 127973174512756677672960.0/22
 All: -0.145+/-0.000 χ^2/NDF : 1392016230093

IGL1I00OD16_16_mean vs Slug, Sign Corrected



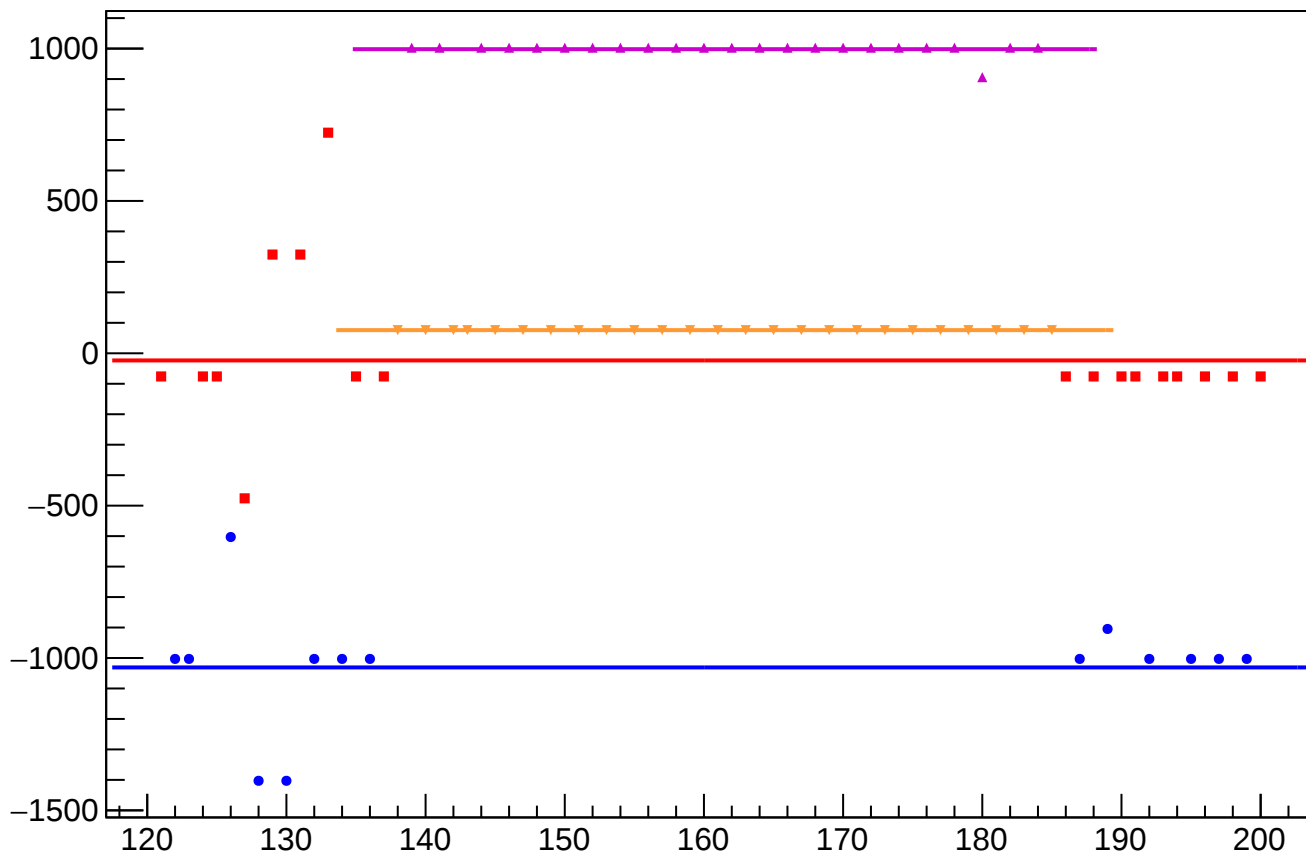
Right In: 16.896 $\pm$ 0.000	χ^2 /NDF: 132191839980310322447136424198144.0/13	Left: 0.042 $\pm$ 0.000	χ^2 /NDF: 99431233770062905
Left Out: 16.009 $\pm$ 0.000	χ^2 /NDF: 89740.8/24	Right: -1.291 $\pm$ 0.000	χ^2 /NDF: 4495749032525154
Right Out: -16.009 $\pm$ 0.000	χ^2 /NDF: 213951.7/17	In: -6.893 $\pm$ 0.000	χ^2 /NDF: 605874368826446095
Left In: -17.009 $\pm$ 0.000	χ^2 /NDF: 115033472633445654986752.0/22	Out: 5.450 $\pm$ 0.000	χ^2 /NDF: 637638186534293710
		All: -0.378 $\pm$ 0.000	χ^2 /NDF: 1445932694898

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 882.948 ± 0.000 $\chi^2/\text{NDF}: 6930695119439194472263479656368308224.0/13$
 Left Out: 1146.011 ± 0.000 $\chi^2/\text{NDF}: 8041760976861450519237885952.0/24$
 Right Out: -1149.458 ± 0.000 $\chi^2/\text{NDF}: 13749631748877392822591004728971231232.0/17$
 Left In: -893.116 ± 0.000 $\chi^2/\text{NDF}: 13219826761707982974212661987208331264.0/22$
 All: 31.082 ± 0.000 $\chi^2/\text{NDF}: 5793322901051$

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1030.932+/-0.000 χ^2/NDF : 23106385924888050694275359873739784192.0/13
 Left Out: 76.011+/-0.000 χ^2/NDF : 11003263624957134120836661248.0/24
 Right Out: -23.424+/-0.000 χ^2/NDF : 44473523336961314133920913772251185152.0/17
 Left In: 998.020+/-0.000 χ^2/NDF : 826231736084035689068445378231140352.0/22
 All: 214.190+/-0.000 χ^2/NDF : 24342277383