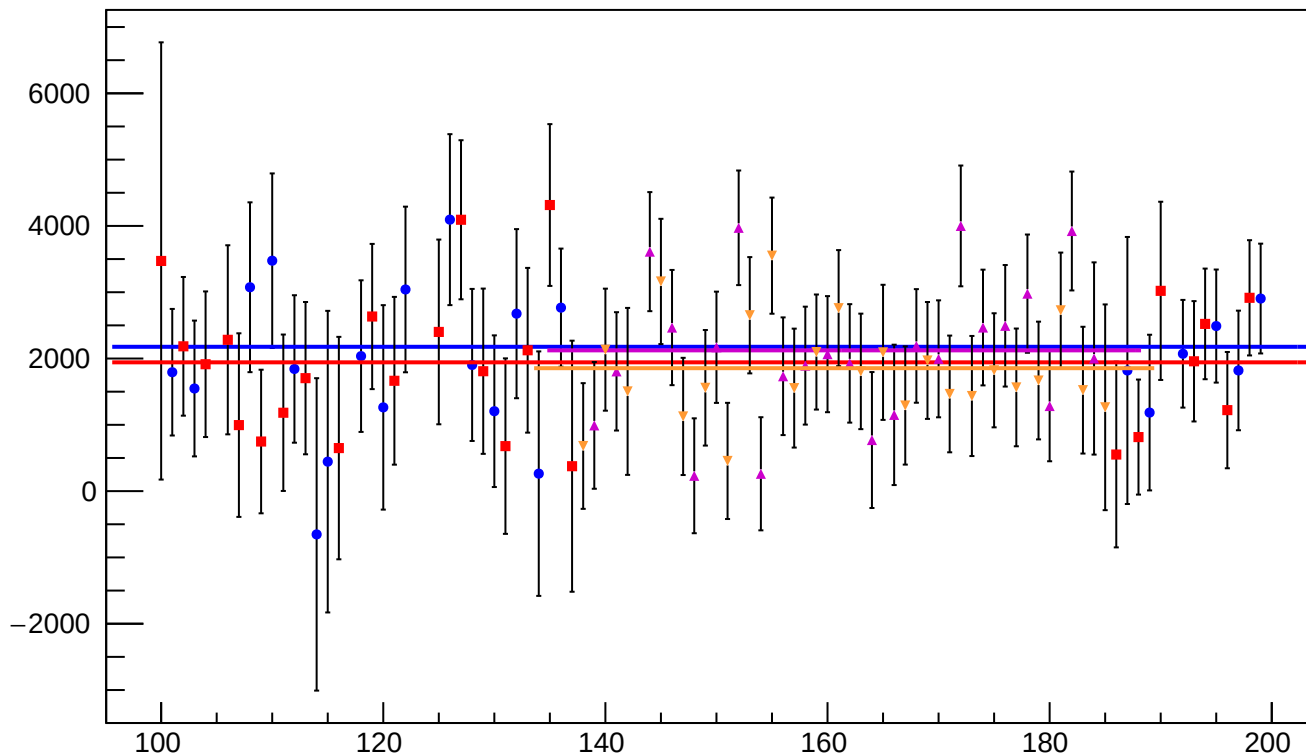


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2176.994+/-241.884

Left Out: 1854.267+/-187.405

Right Out: 1942.471+/-231.368

Left In: 2123.138+/-188.684

χ^2/NDF : 11.4/21

χ^2/NDF : 15.1/23

χ^2/NDF : 18.0/24

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2054.523+/-167.196

In: 2143.512+/-148.773

Out: 1889.210+/-145.627

All: 2013.643+/-104.068

χ^2/NDF : 48.1/46

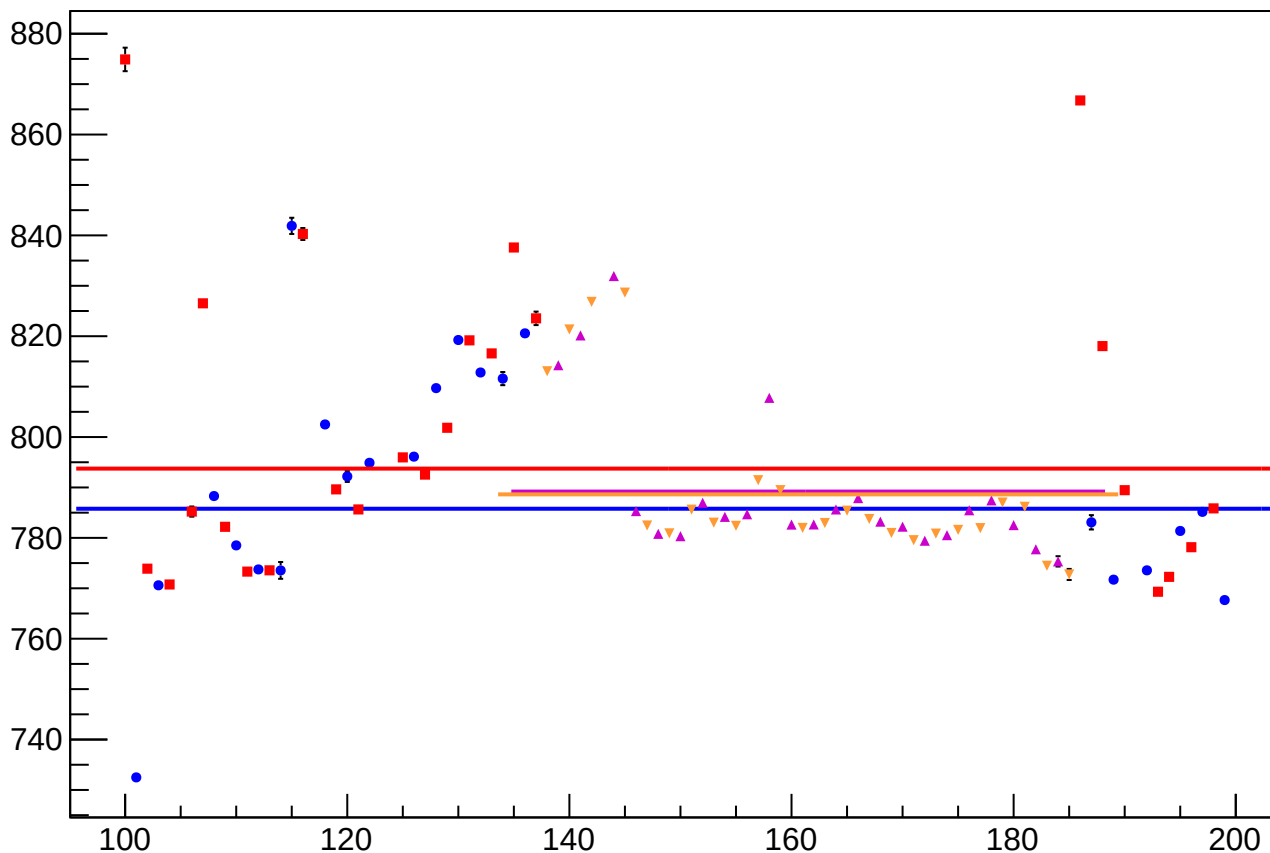
χ^2/NDF : 29.9/46

χ^2/NDF : 43.5/44

χ^2/NDF : 33.2/48

χ^2/NDF : 78.1/93

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: 793.739 $\pm$ 0.164 χ^2 /NDF: 22277.8/24

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

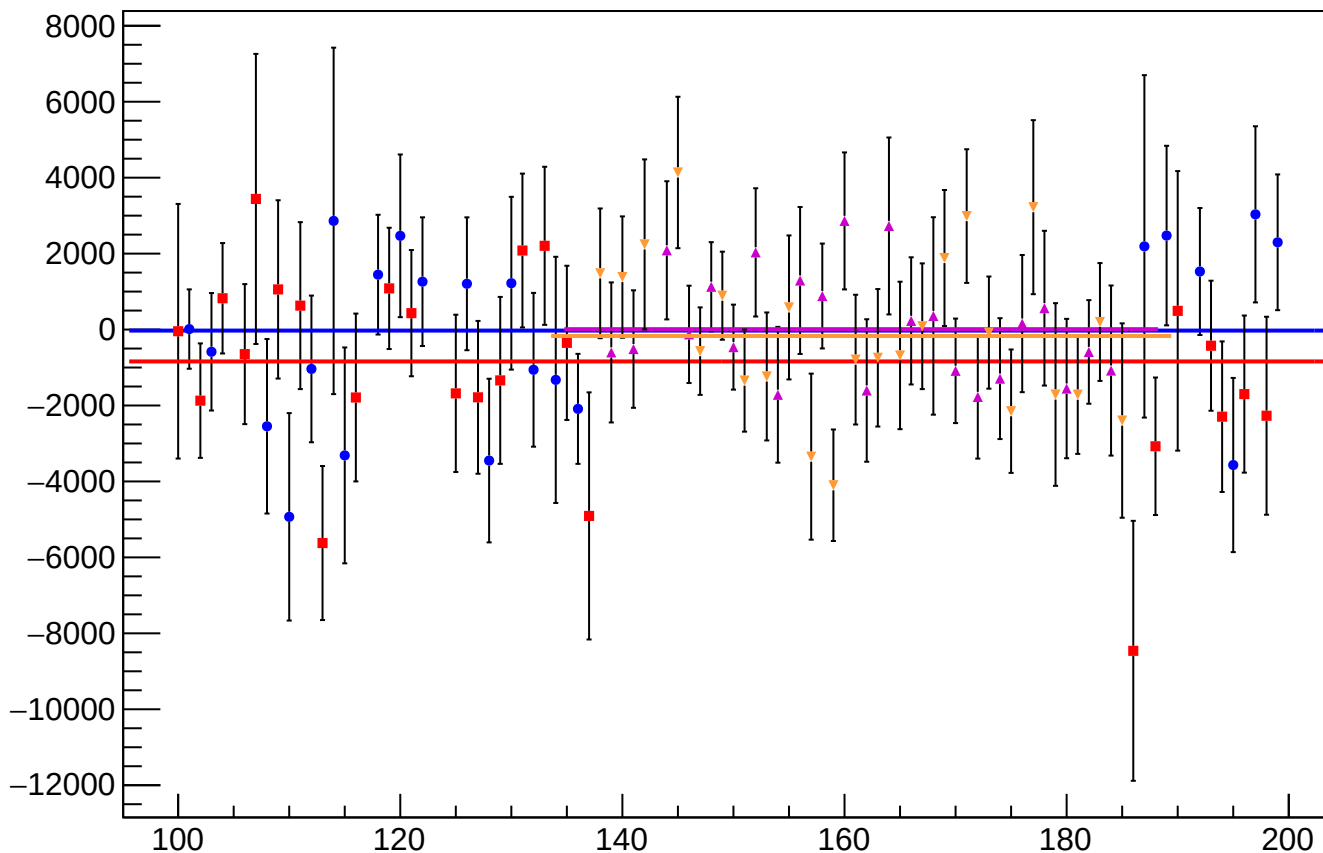
Right: 789.937 $\pm$ 0.118 χ^2 /NDF: 41029.5/46

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

Out: 790.654 $\pm$ 0.103 χ^2 /NDF: 34344.9/48

All: 789.305 $\pm$ 0.074 χ^2 /NDF: 63906.2/93

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -27.040 ± 412.029 χ^2/NDF : 23.2/21

Left Out: -169.172 ± 340.391 χ^2/NDF : 30.0/23

Right Out: -839.378 ± 411.889 χ^2/NDF : 25.9/24

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

Left: -78.858 ± 239.775 χ^2/NDF : 44.4/46

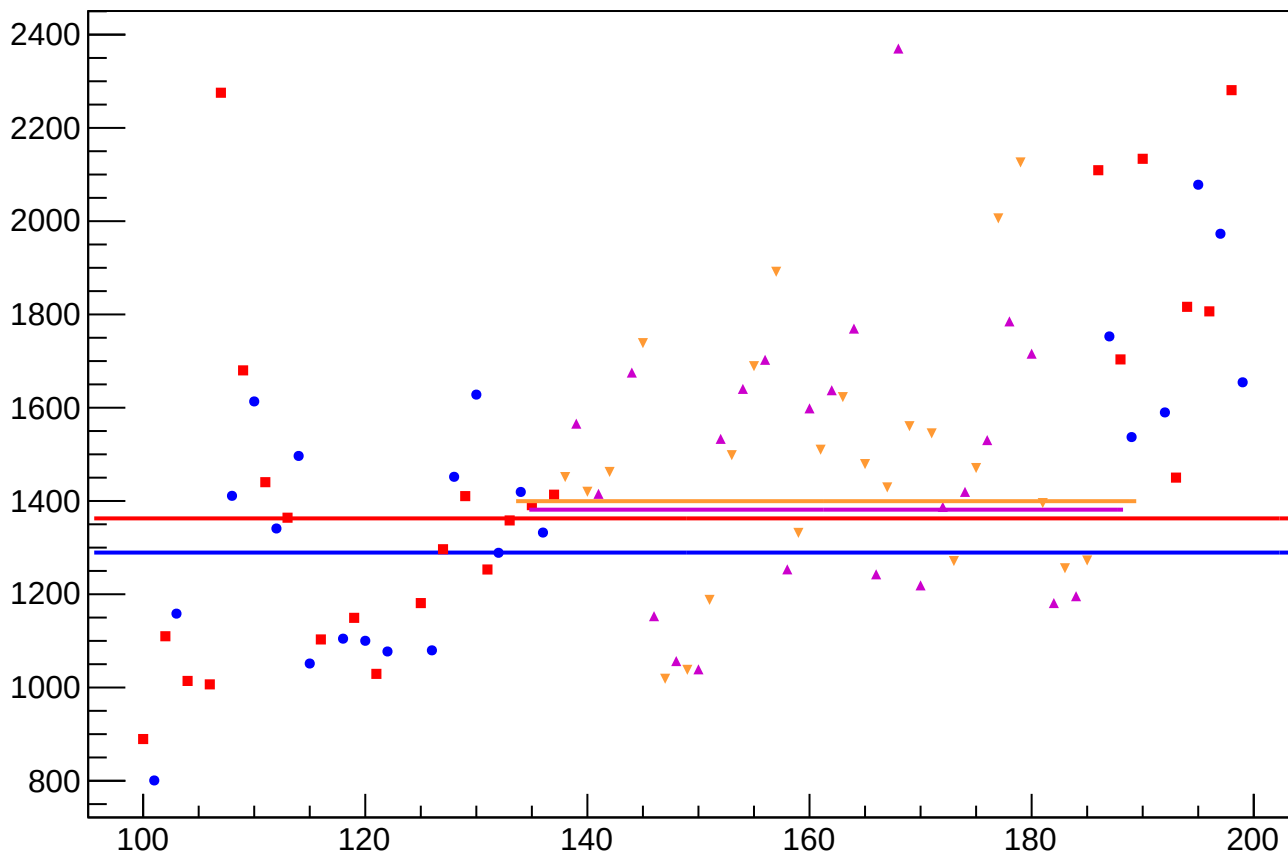
Right: -433.347 ± 291.299 χ^2/NDF : 51.1/46

In: -4.834 ± 261.234 χ^2/NDF : 37.4/44

Out: -441.148 ± 262.386 χ^2/NDF : 57.5/48

All: -222.031 ± 185.126 χ^2/NDF : 96.3/93

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: 1362.659 $\pm$ 0.291 χ^2 /NDF: 1311760.1/24

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

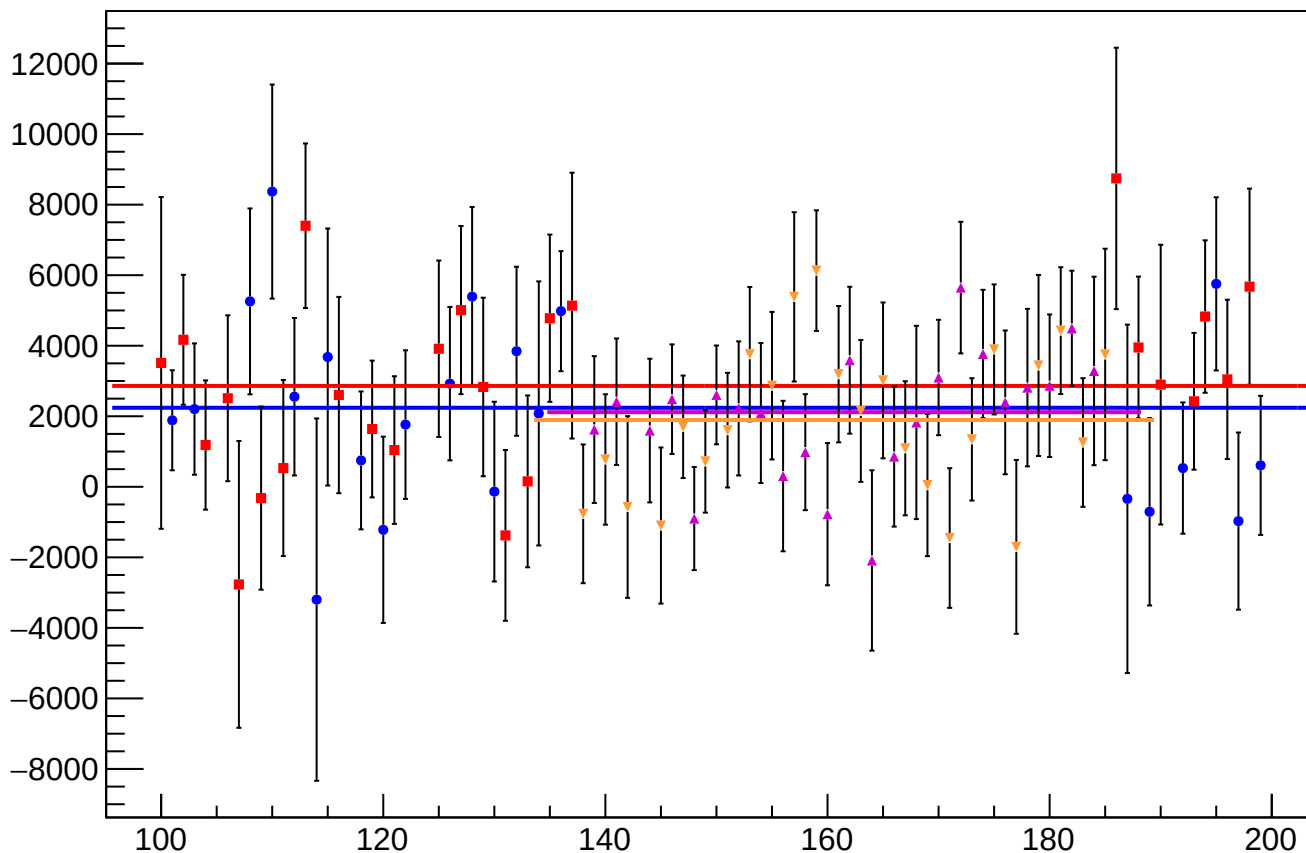
Right: 1326.029 $\pm$ 0.206 χ^2 /NDF: 2613374.4/46

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

Out: 1384.601 $\pm$ 0.186 χ^2 /NDF:2440437.6/48

All: 1364.403 $\pm$ 0.131 χ^2 /NDF: 5070101.4/93

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: 2860.389 $\pm$ 484.281 χ^2 /NDF: 21.6/24

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

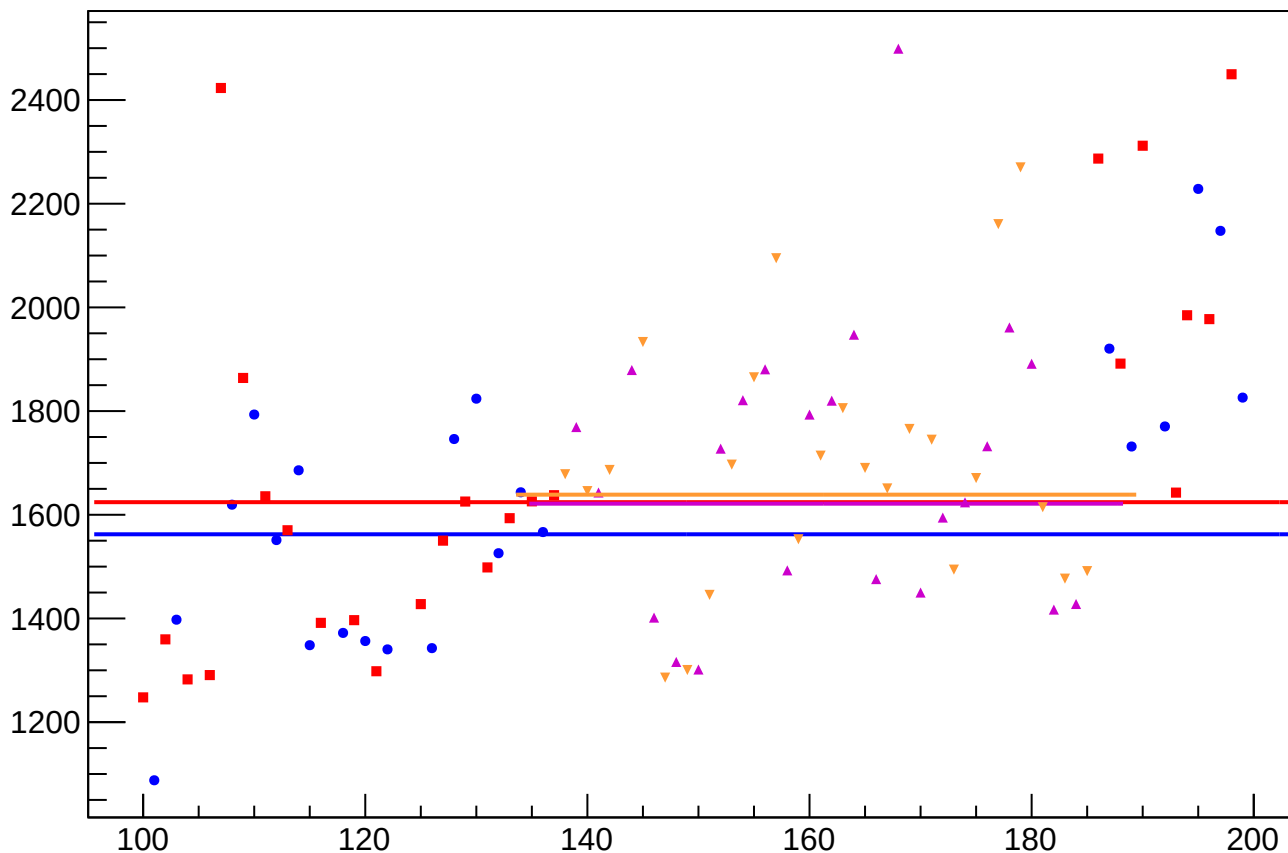
Right: 2555.004 $\pm$ 344.827 χ^2 /NDF: 43.8/46

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

Out: 2279.607 $\pm$ 306.036 χ^2 /NDF:50.0/48

All: 2222.378 $\pm$ 216.686 χ^2 /NDF: 90.2/93

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1562.370 +/- 0.347 χ^2/NDF : 701937.9/21

Left Out: 1638.806 +/- 0.279 χ^2/NDF : 671906.6/23

Right Out: 1624.305 +/- 0.342 χ^2/NDF : 809818.6/24

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

Left: 1630.070 +/- 0.197 χ^2/NDF : 1449165.3/46

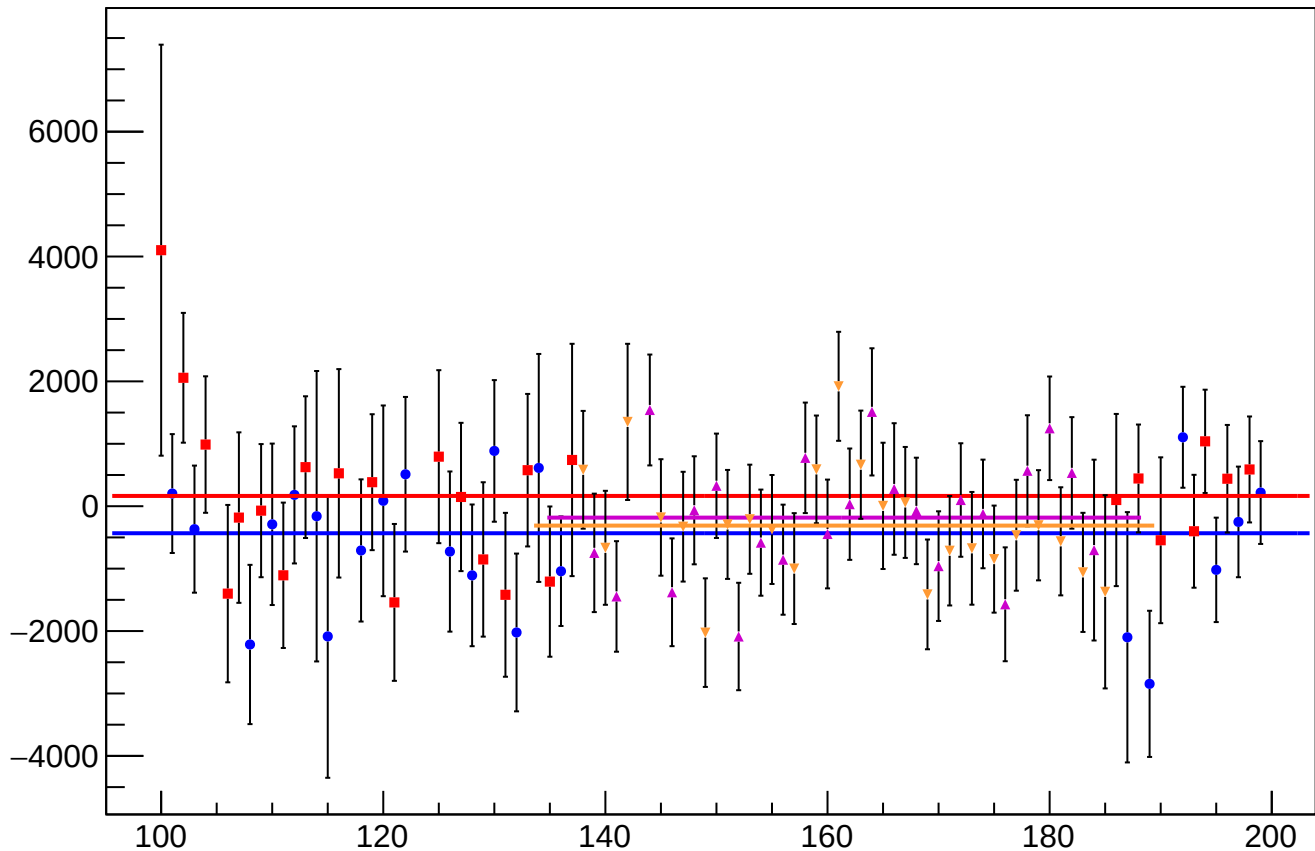
Right: 1593.771 +/- 0.244 χ^2/NDF : 1527883.5/46

In: 1598.366 +/- 0.217 χ^2/NDF : 1494873.0/44

Out: 1633.015 +/- 0.216 χ^2/NDF : 1482802.4/48

All: 1615.737 +/- 0.153 χ^2/NDF : 2990459.9/93

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -432.980 $\pm$ 239.660 χ^2/NDF : 17.9/21

Left Out: -310.563 $\pm$ 186.538 χ^2/NDF : 20.0/23

Right Out: 164.580 $\pm$ 228.955 χ^2/NDF : 16.0/24

Left In: -182.895 $\pm$ 187.817 χ^2/NDF : 26.1/22

Left: -247.165 $\pm$ 132.352 χ^2/NDF : 46.4/46

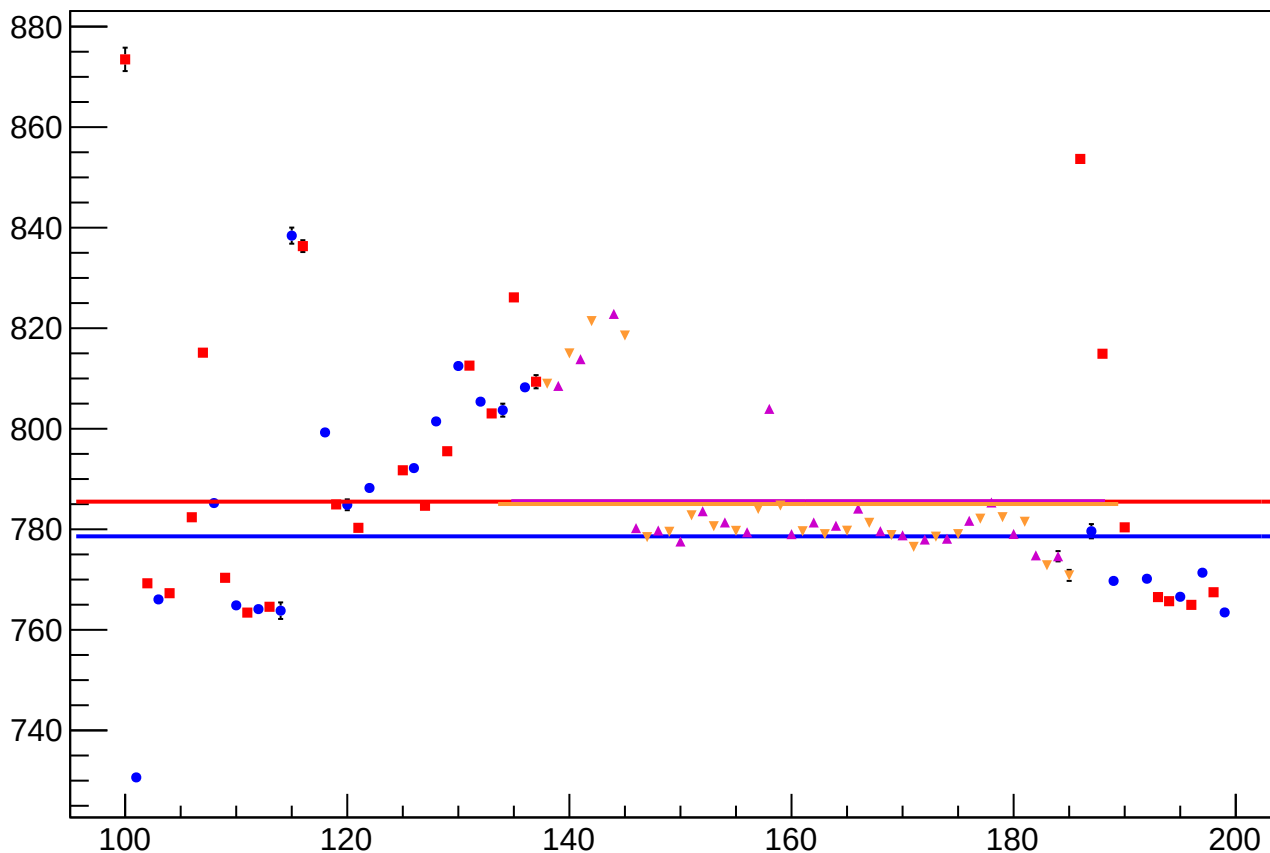
Right: -120.557 $\pm$ 165.551 χ^2/NDF : 37.2/46

In: -278.048 $\pm$ 147.830 χ^2/NDF : 44.7/44

Out: -120.998 $\pm$ 144.616 χ^2/NDF : 38.7/48

All: -197.798 $\pm$ 103.377 χ^2/NDF : 83.9/93

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: 785.501 $\pm$ 0.162 χ^2 /NDF: 22454.7/24

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

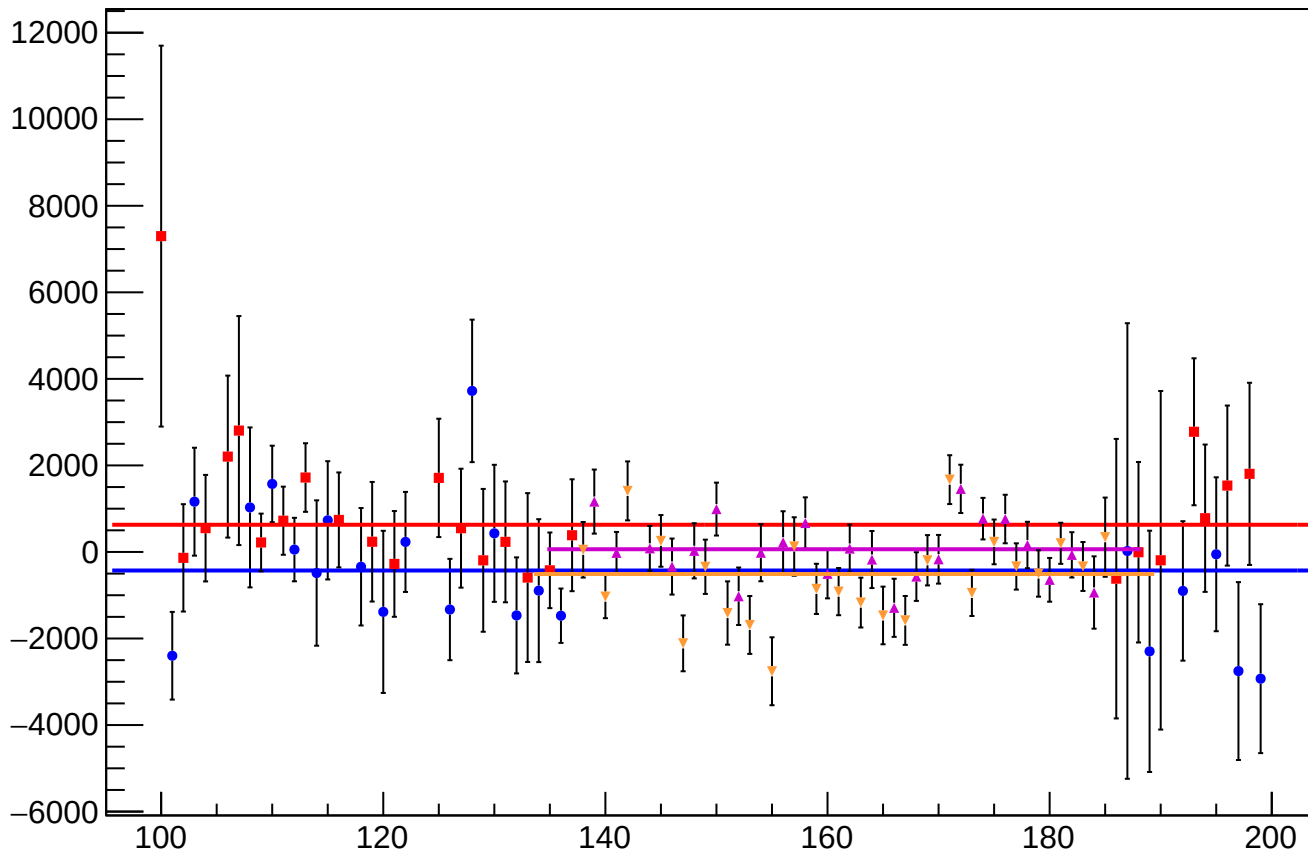
Right: 782.207 $\pm$ 0.117 χ^2 /NDF: 39549.0/46

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

Out: 785.218 $\pm$ 0.102 χ^2 /NDF: 31827.7/48

All: 784.100 $\pm$ 0.073 χ^2 /NDF: 58728.0/93

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -428.644 $\pm$ 268.126 χ^2/NDF : 27.6/21

Left Out: -509.311 $\pm$ 121.190 χ^2/NDF :60.5/23

Right Out: 628.583 $\pm$ 258.309 χ^2/NDF : 12.3/24

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

Left: -225.283 $\pm$ 85.995 χ^2/NDF : 100.4/46

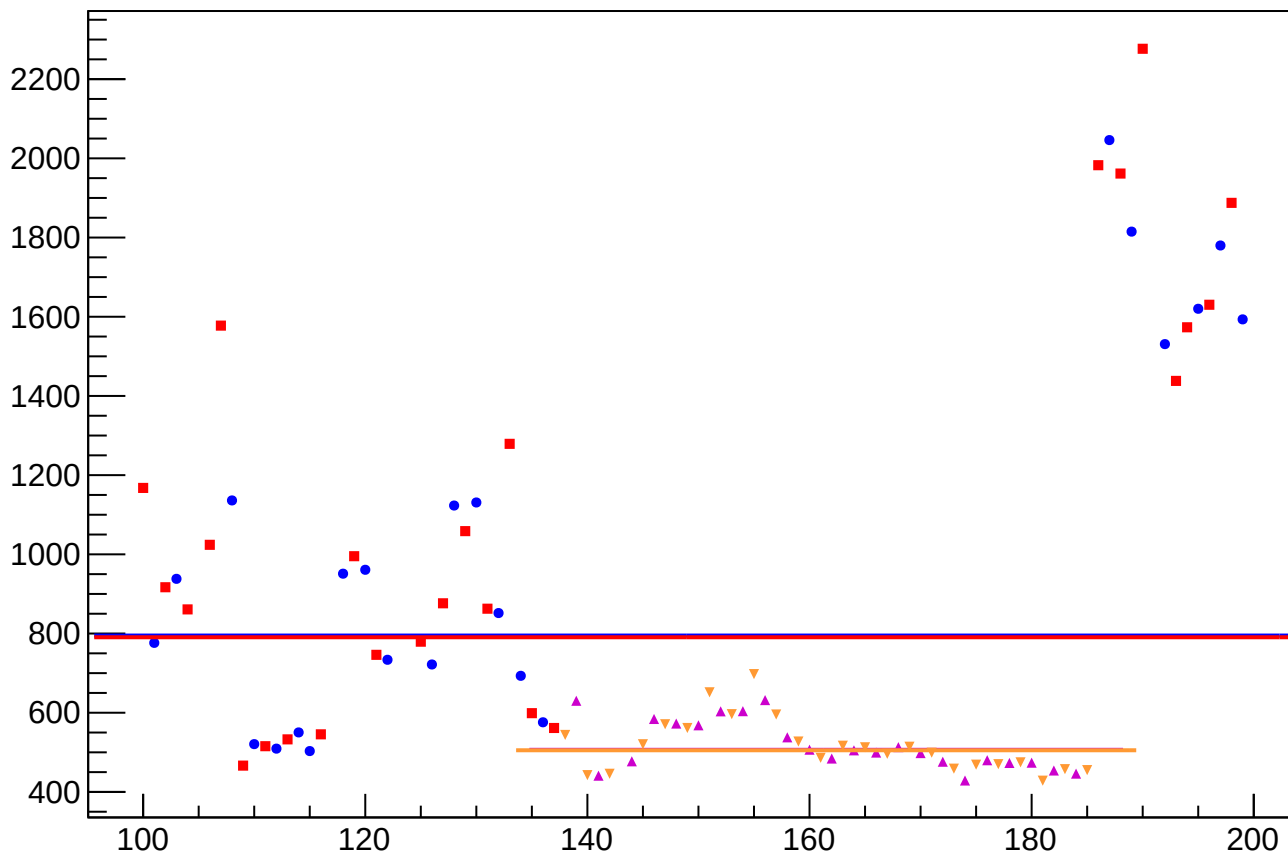
Right: 119.678 $\pm$ 186.026 χ^2/NDF : 47.9/46

In: -21.573 $\pm$ 111.080 χ^2/NDF :59.1/44

Out: -304.026 $\pm$ 109.715 χ^2/NDF :88.7/48

All: -164.545 $\pm$ 78.058 χ^2/NDF : 151.1/93

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: 790.581+/-0.183 χ^2/NDF : 4536649.8/24

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

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

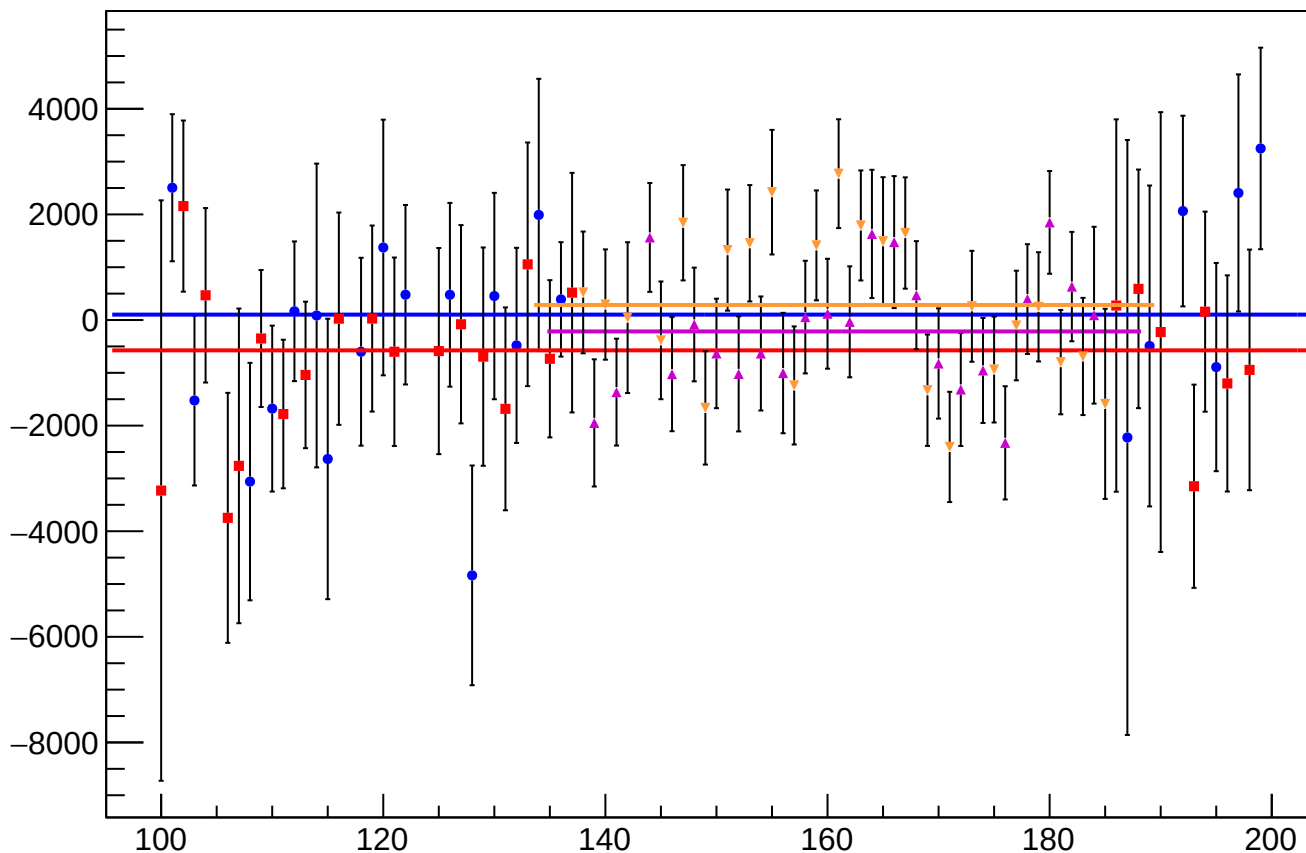
Right: 792.671+/-0.132 χ^2/NDF : 7859350.7/46

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

Out: 556.701+/-0.078 χ^2/NDF : 7022734.3/48

All: 556.307+/-0.055 χ^2/NDF : 12700172.4/93

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: -574.669 $\pm$ 384.281 χ^2 /NDF: 10.4/24

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

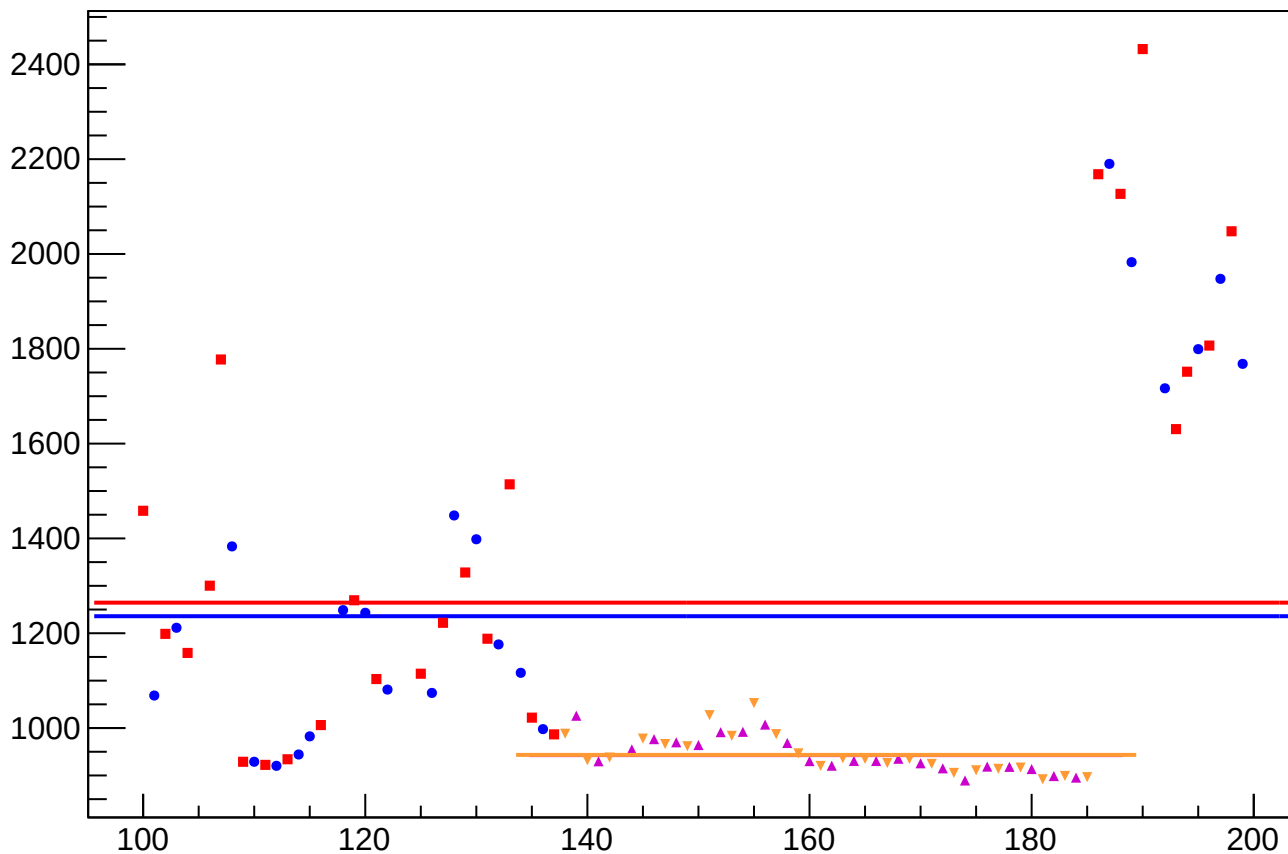
Right: -243.993 $\pm$ 274.861 χ^2 /NDF: 32.6/46

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

Out: 66.539 $\pm$ 193.766 χ^2 /NDF:52.4/48

All: -34.356 $\pm$ 137.689 χ^2 /NDF: 98.5/93

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1235.896 $\pm$ 0.278 χ^2 /NDF: 1278081.9/21

Left Out: 943.351 $\pm$ 0.159 χ^2 /NDF: 60365.2/23

Right Out: 1264.521 $\pm$ 0.272 χ^2 /NDF: 1774269.1/24

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

Left: 943.140 $\pm$ 0.112 χ^2 /NDF: 108771.7/46

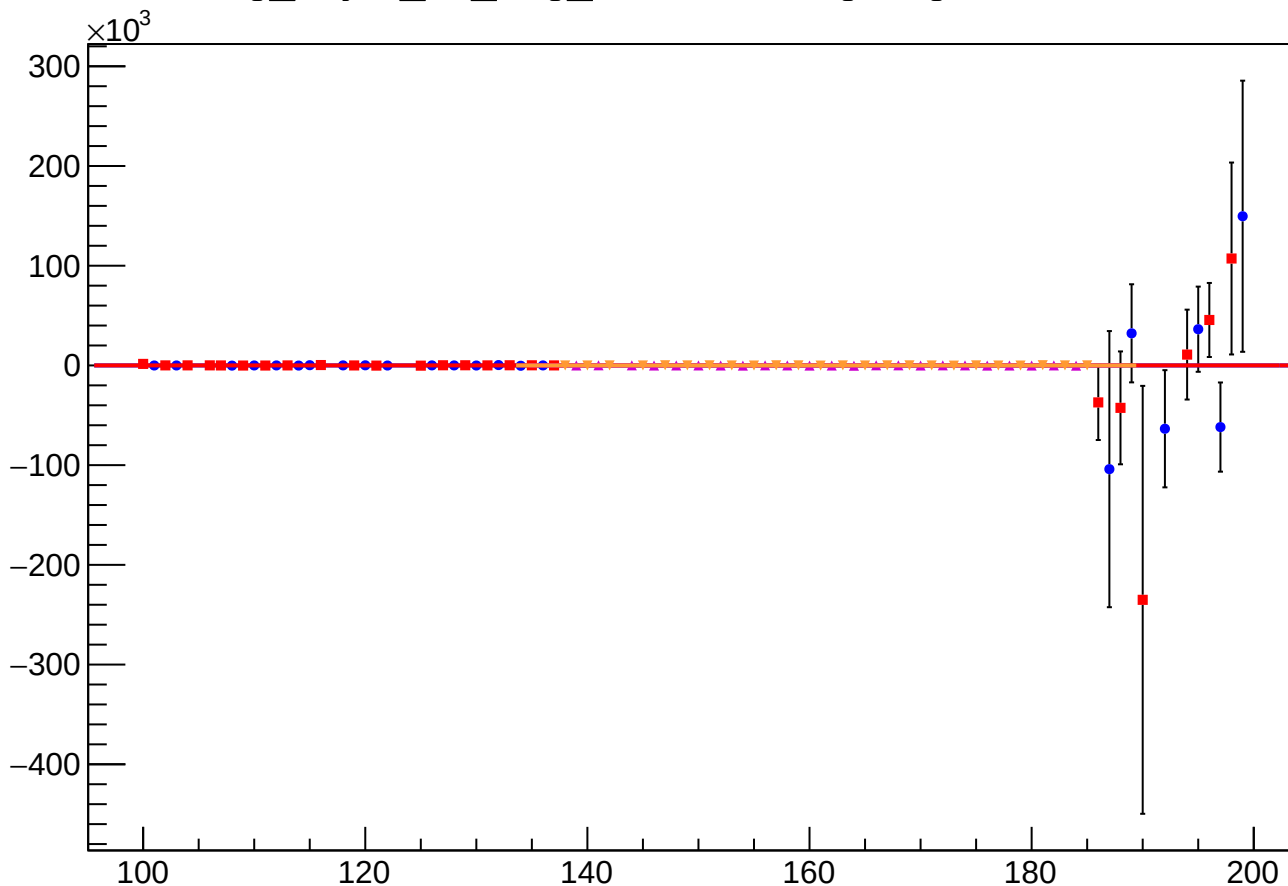
Right: 1250.541 $\pm$ 0.194 χ^2 /NDF: 3057771.1/46

In: 1015.457 $\pm$ 0.138 χ^2 /NDF: 2161499.8/44

Out: 1025.007 $\pm$ 0.137 χ^2 /NDF: 2876468.9/48

All: 1020.279 $\pm$ 0.097 χ^2 /NDF: 5040374.0/93

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.563 ± 30.032 χ^2/NDF : 22.0/21

Left Out: 3.710 ± 21.467 χ^2/NDF : 22.4/23

Right Out: 31.759 ± 30.492 χ^2/NDF : 22.3/23

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

Left: -9.538 ± 15.221 χ^2/NDF : 45.7/46

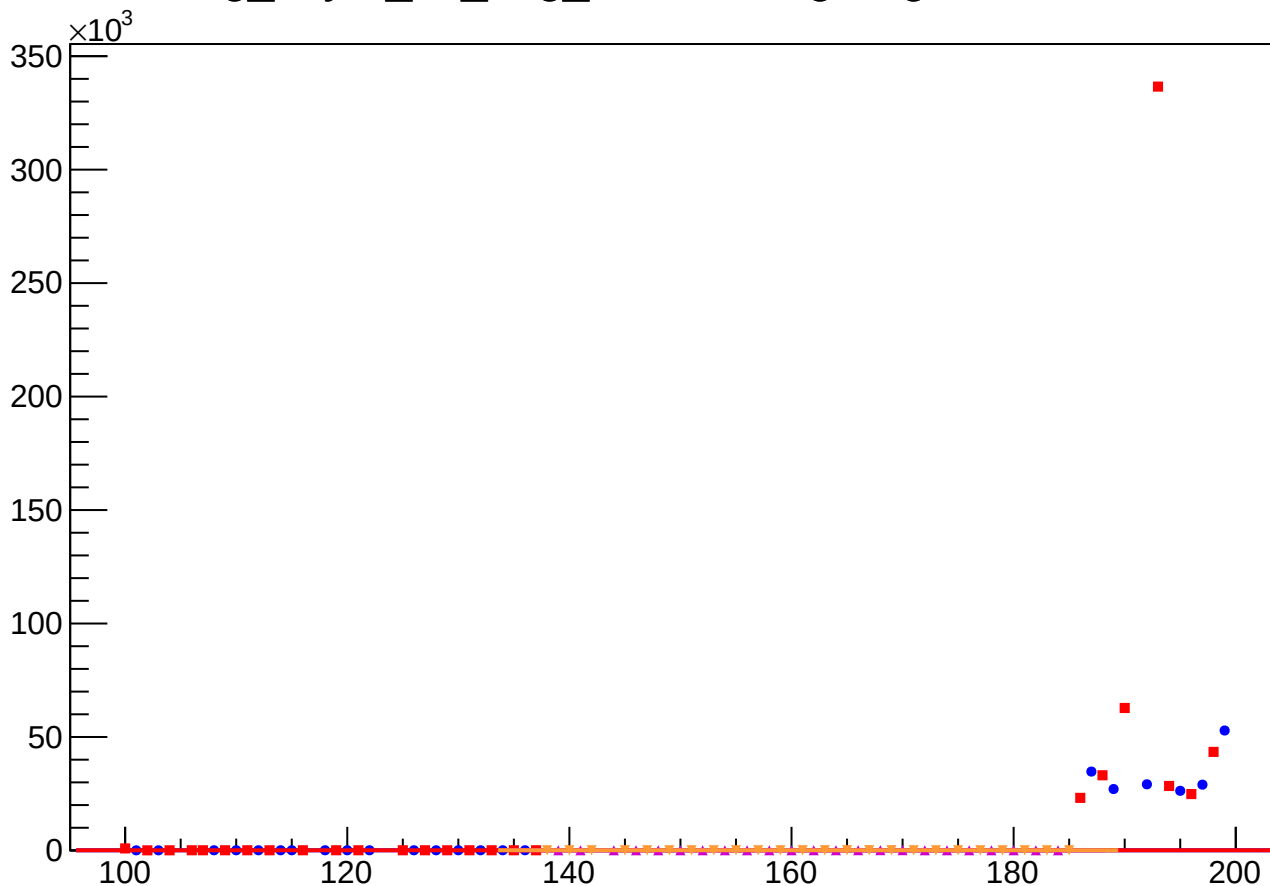
Right: 7.739 ± 21.397 χ^2/NDF : 45.5/45

In: -20.422 ± 17.527 χ^2/NDF : 44.5/44

Out: 13.006 ± 17.553 χ^2/NDF : 45.4/47

All: -3.733 ± 12.403 χ^2/NDF : 91.7/92

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: 79.432 $\pm$ 0.022 χ^2 /NDF: 4185355.4/24

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

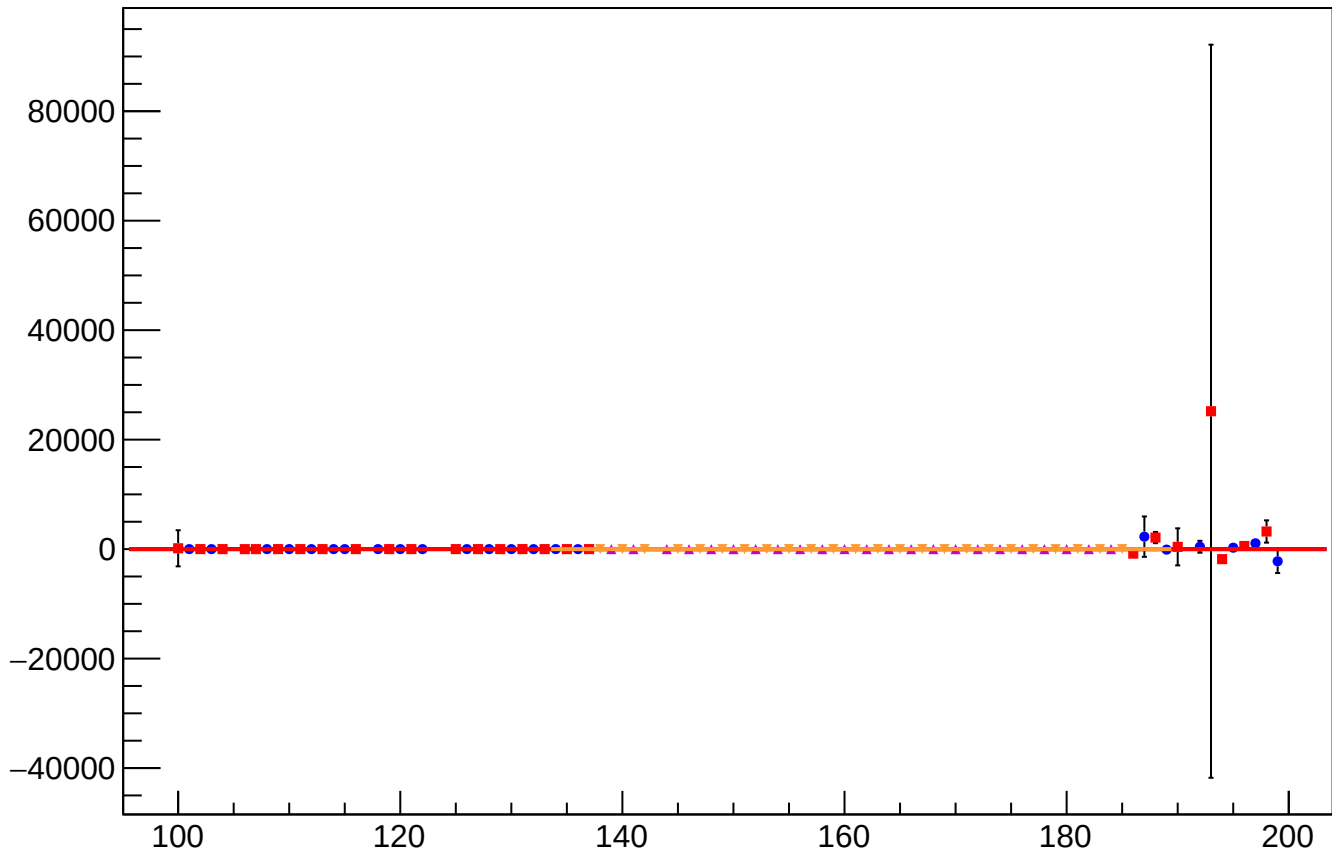
Right: 77.742 $\pm$ 0.015 χ^2 /NDF: 7783052.8/46

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

Out: 86.292 $\pm$ 0.012 χ^2 /NDF: 4803045.1/48

All: 85.645 $\pm$ 0.009 χ^2 /NDF: 9168803.9/93

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: 0.039 ± 0.525 χ^2/NDF : 22.8/24

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

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

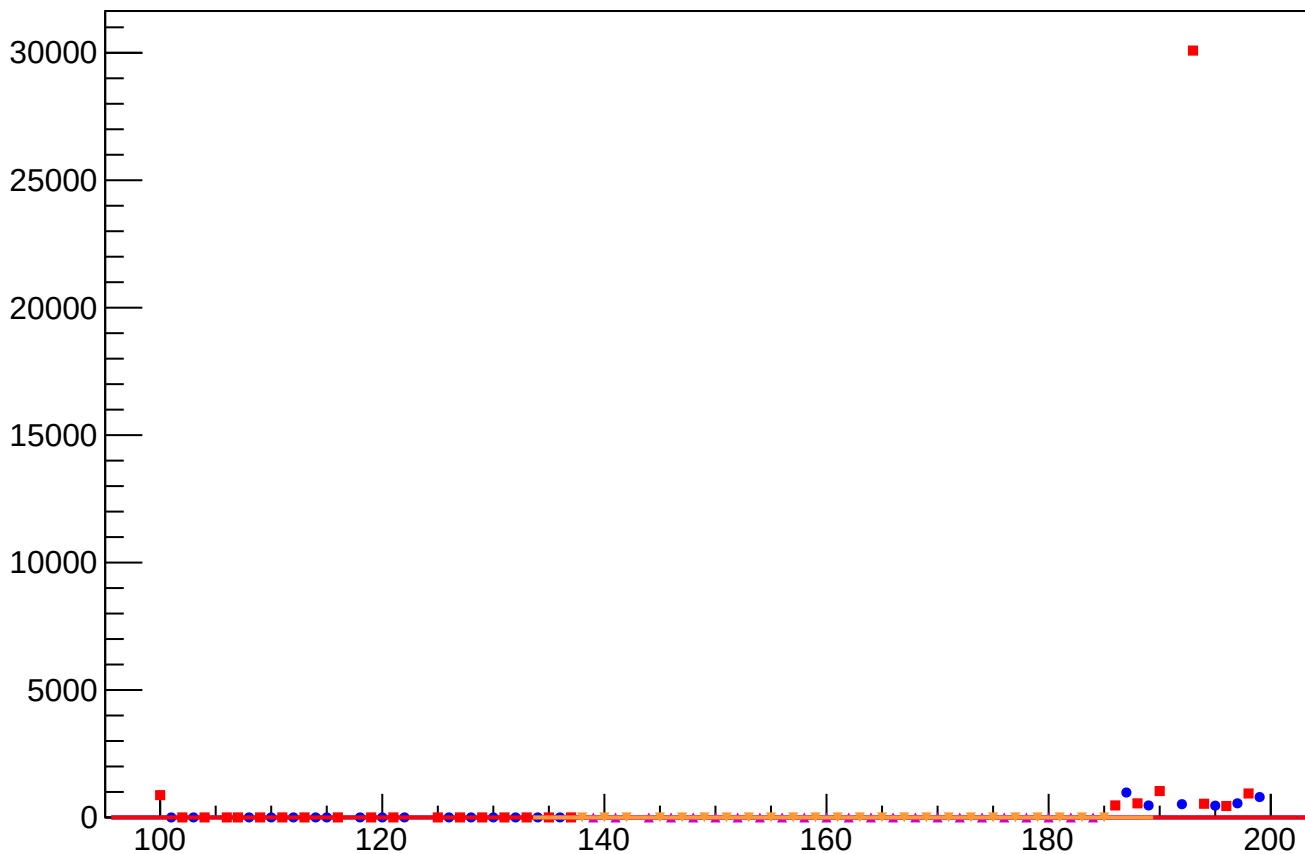
Right: -0.133 ± 0.363 χ^2/NDF : 47.0/46

In: -0.433 ± 0.306 χ^2/NDF : 50.5/44

Out: 0.096 ± 0.306 χ^2/NDF : 44.1/48

All: -0.168 ± 0.217 χ^2/NDF : 96.1/93

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 : 4291537.2/24

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

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

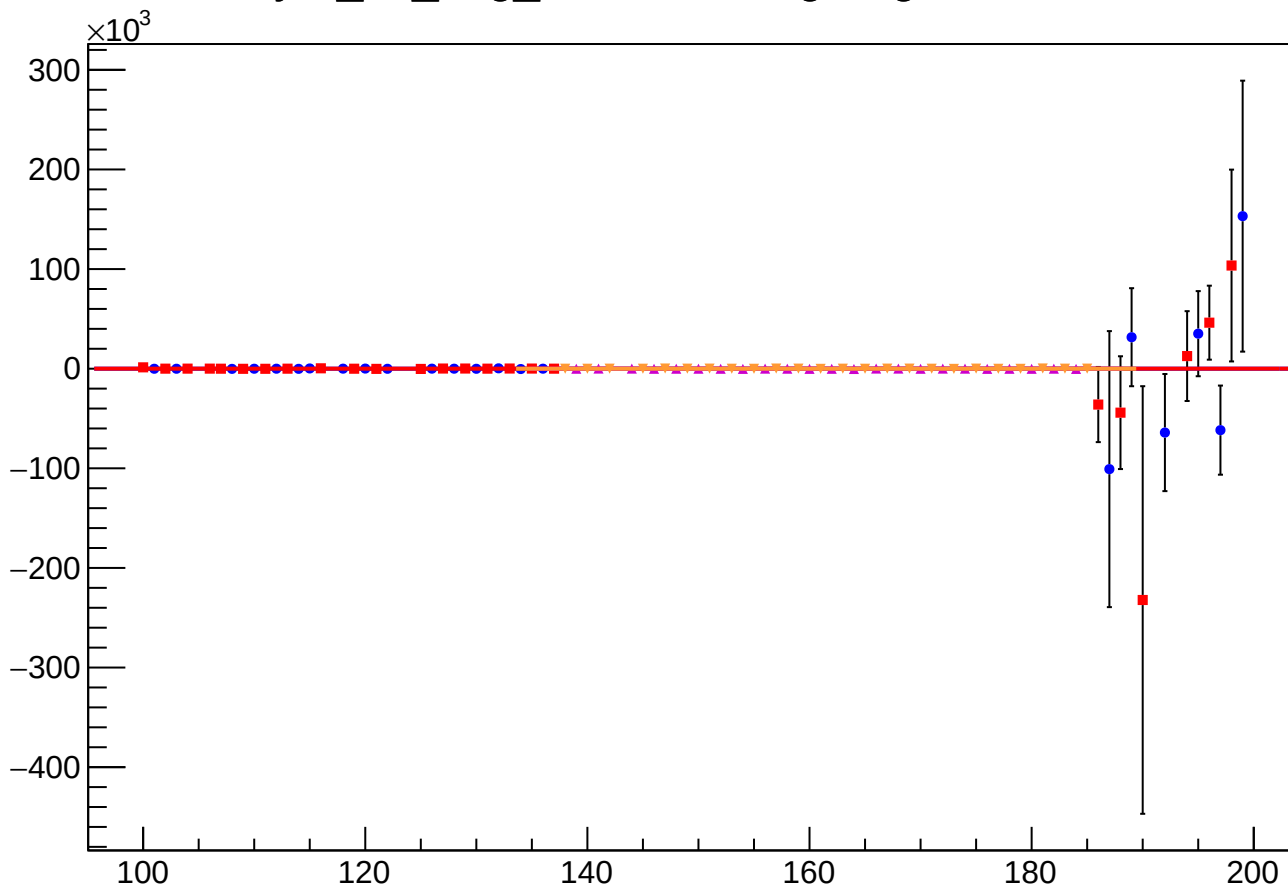
Right: 1.204+/-0.000 χ^2/NDF : 7619834.3/46

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

Out: 1.358+/-0.000 χ^2/NDF : 5384650.5/48

All: 1.349+/-0.000 χ^2/NDF : 10118052.5/93

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: 32.039 ± 30.500 χ^2/NDF : 22.3/23

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

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

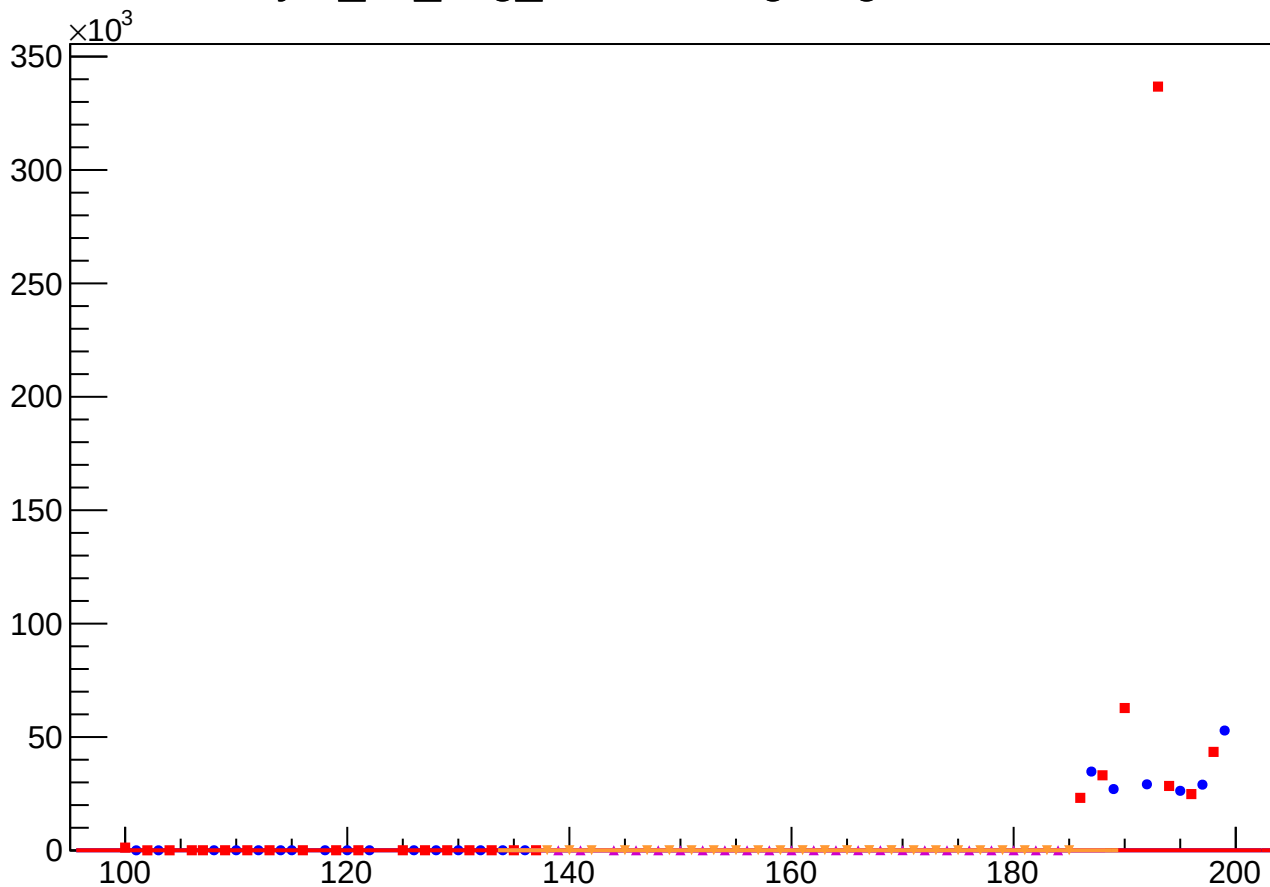
Right: 8.416 ± 21.402 χ^2/NDF : 45.6/45

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

Out: 12.956 ± 17.559 χ^2/NDF : 44.9/47

All: -3.416 ± 12.407 χ^2/NDF : 91.3/92

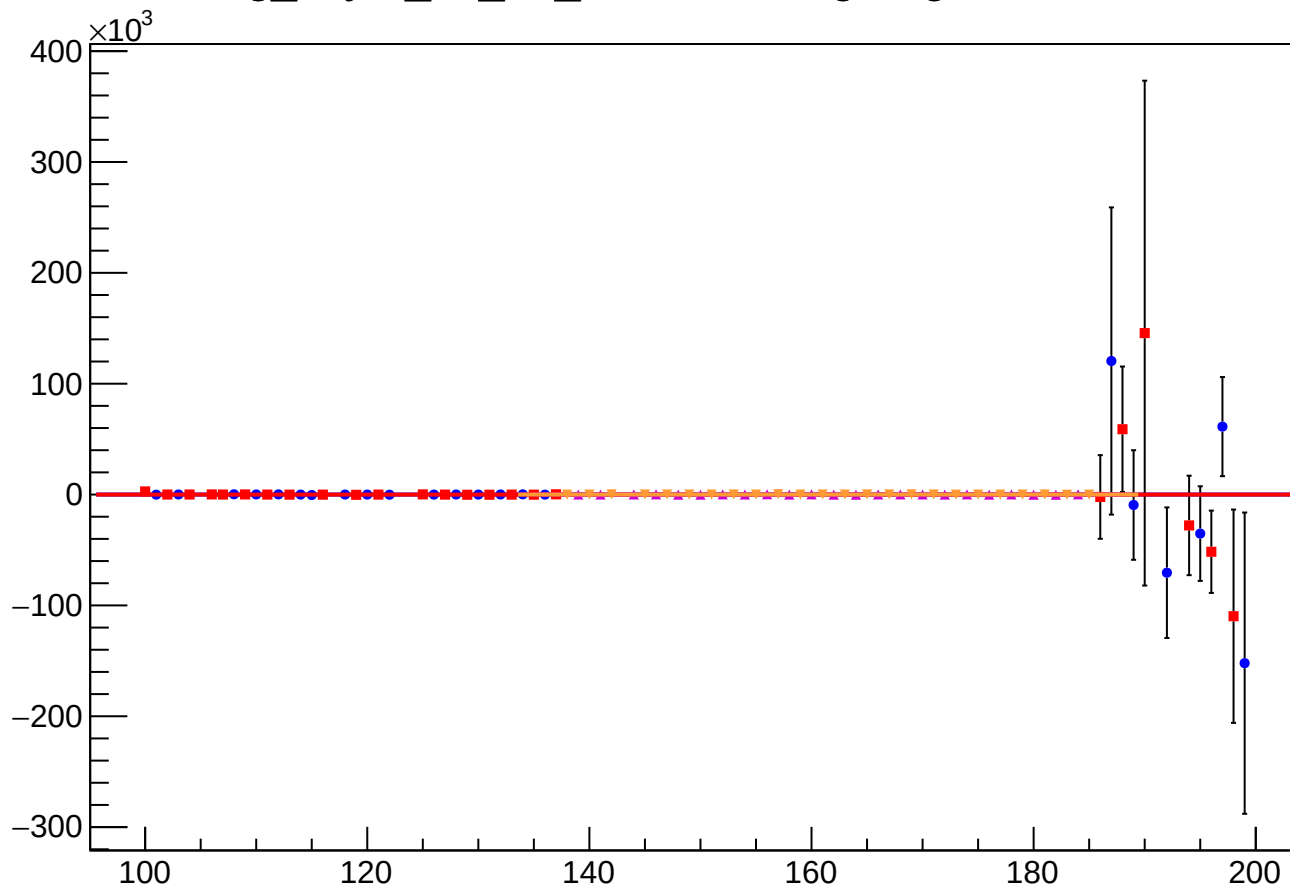
asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.122 $\pm$ 0.021 χ^2 /NDF: 3585646.1/21
 Left Out: 89.719 $\pm$ 0.015 χ^2 /NDF: 467023.5/23
 Right Out: 79.435 $\pm$ 0.022 χ^2 /NDF: 4191941.6/24
 Left In: 89.622 $\pm$ 0.015 χ^2 /NDF: 509391.8/22

Left: 89.671 $\pm$ 0.011 χ^2 /NDF: 976435.5/46
 Right: 77.753 $\pm$ 0.015 χ^2 /NDF: 7789569.9/46
 In: 85.024 $\pm$ 0.012 χ^2 /NDF: 4361390.0/44
 Out: 86.311 $\pm$ 0.012 χ^2 /NDF: 4810976.0/48
 All: 85.666 $\pm$ 0.009 χ^2 /NDF: 9177748.1/93

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: -25.814 ± 30.473 $\chi^2/\text{NDF}: 17.9/23$

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

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

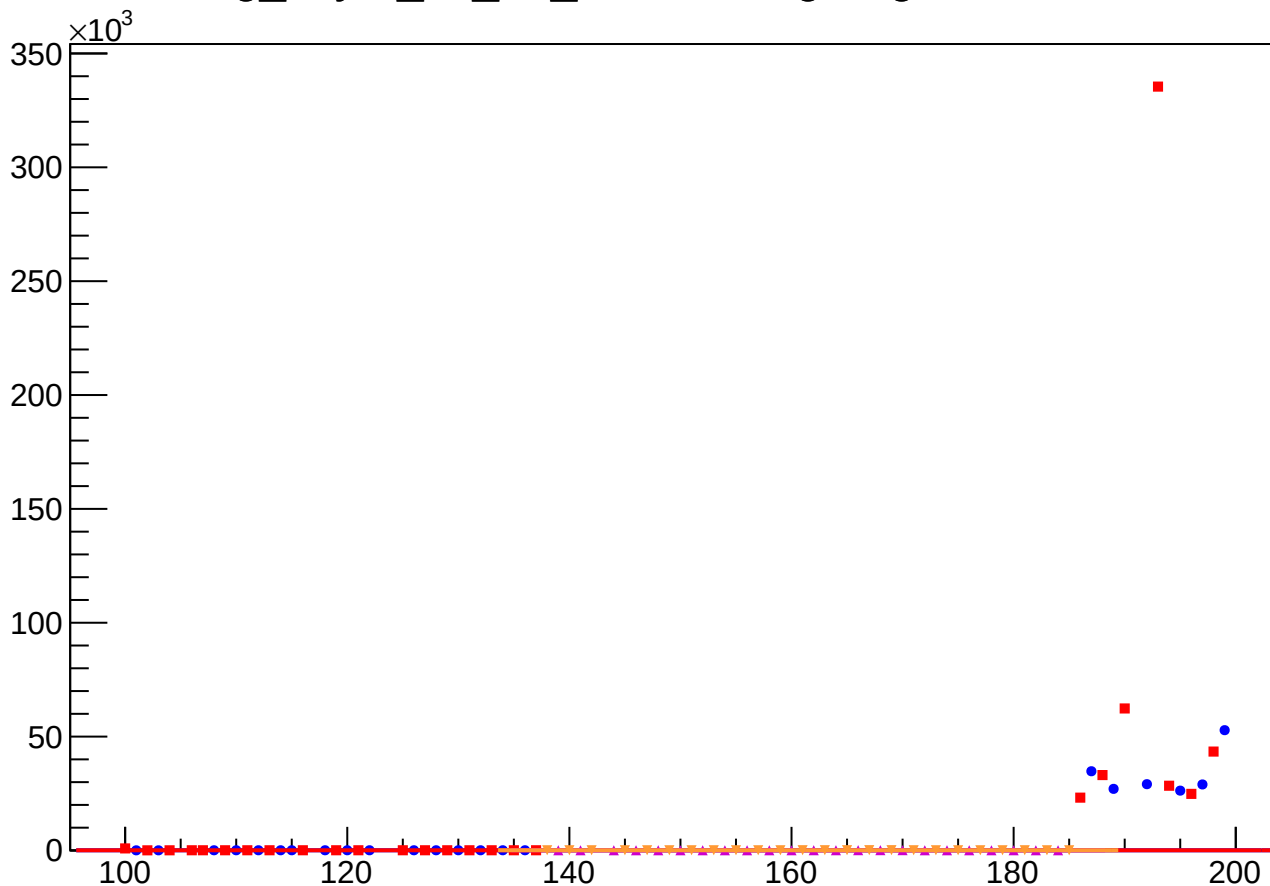
Right: -8.599 ± 21.383 $\chi^2/\text{NDF}: 38.6/45$

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

Out: 1.642 ± 17.552 $\chi^2/\text{NDF}: 36.3/47$

All: 16.529 ± 12.403 $\chi^2/\text{NDF}: 90.1/92$

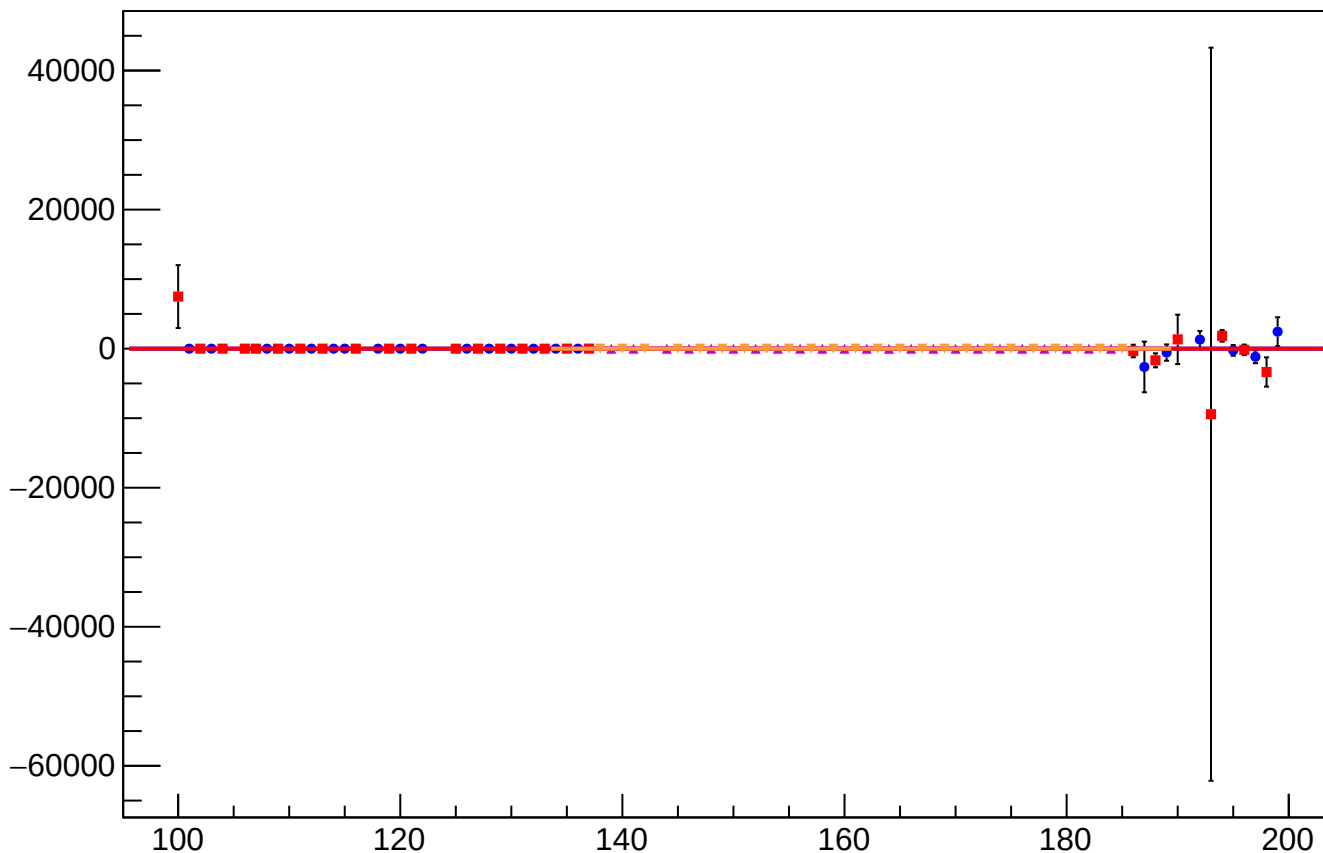
reg_asym_ds_dd_rms vs Slug, Sign Corrected



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: 79.383 $\pm$ 0.022 χ^2 /NDF: 4184799.9/24
 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: 7781532.5/46
 In: 84.997 $\pm$ 0.012 χ^2 /NDF: 4365261.3/44
 Out: 86.285 $\pm$ 0.012 χ^2 /NDF: 4803434.6/48
 All: 85.640 $\pm$ 0.009 χ^2 /NDF: 9174086.2/93

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 $\pm$ 0.531 χ^2 /NDF: 16.9/21

Left Out: -0.516 $\pm$ 0.391 χ^2 /NDF:20.7/23

Right Out: 0.347 $\pm$ 0.549 χ^2 /NDF: 24.0/24

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

Left: -0.293 $\pm$ 0.276 χ^2 /NDF: 41.7/46

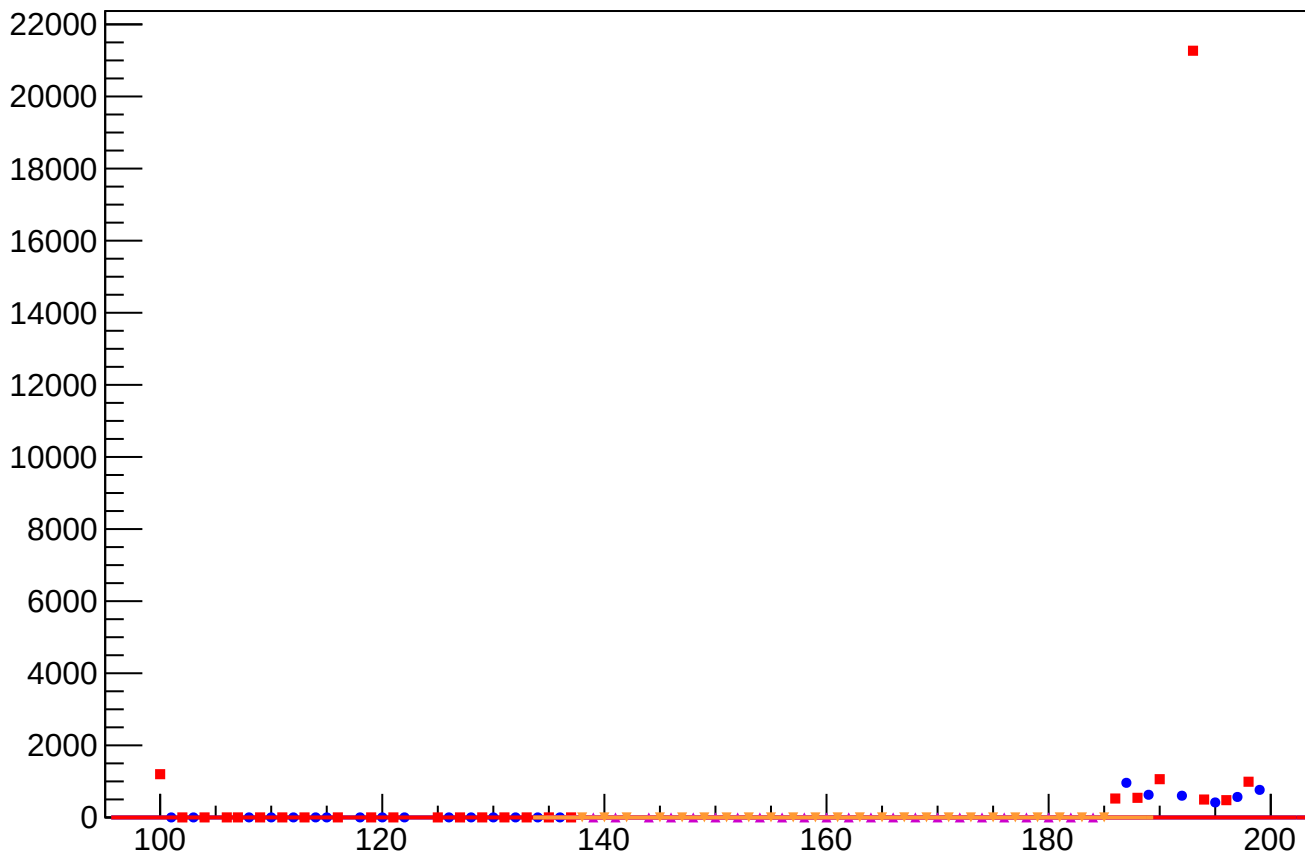
Right: 0.628 $\pm$ 0.382 χ^2 /NDF: 41.4/46

In: 0.266 $\pm$ 0.315 χ^2 /NDF:39.4/44

Out: -0.225 $\pm$ 0.318 χ^2 /NDF:46.4/48

All: 0.023 $\pm$ 0.224 χ^2 /NDF: 86.9/93

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 : 4249767.2/24

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

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

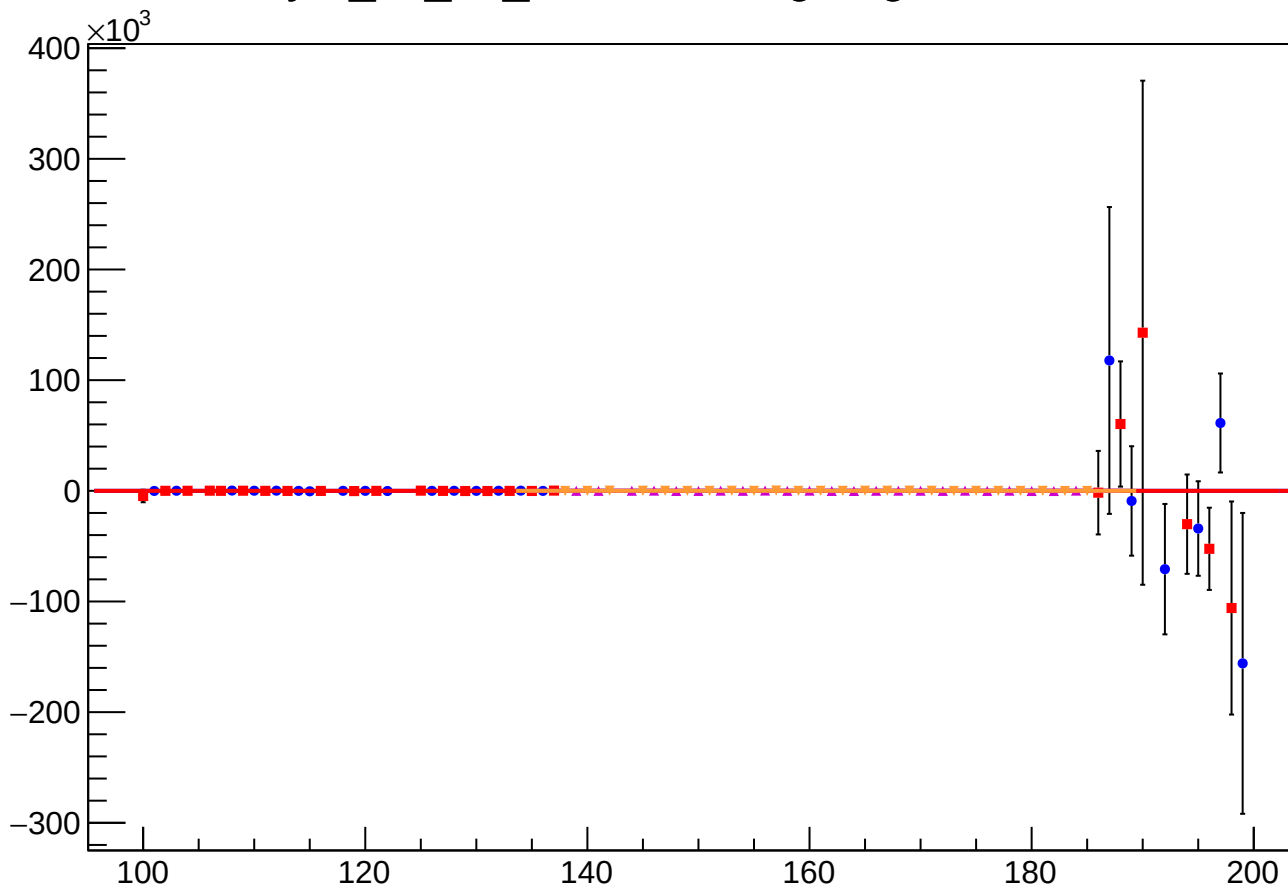
Right: 1.274+/-0.000 χ^2/NDF : 7700669.5/46

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

Out: 1.418+/-0.000 χ^2/NDF :5509168.9/48

All: 1.400+/-0.000 χ^2/NDF : 10236695.5/93

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.393+/-30.020 χ^2/NDF : 19.9/21

Left Out: 15.770+/-21.479 χ^2/NDF :17.1/23

Right Out: -26.425+/-30.482 χ^2/NDF : 18.2/23

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

Left: 29.758+/-15.231 χ^2/NDF : 49.0/46

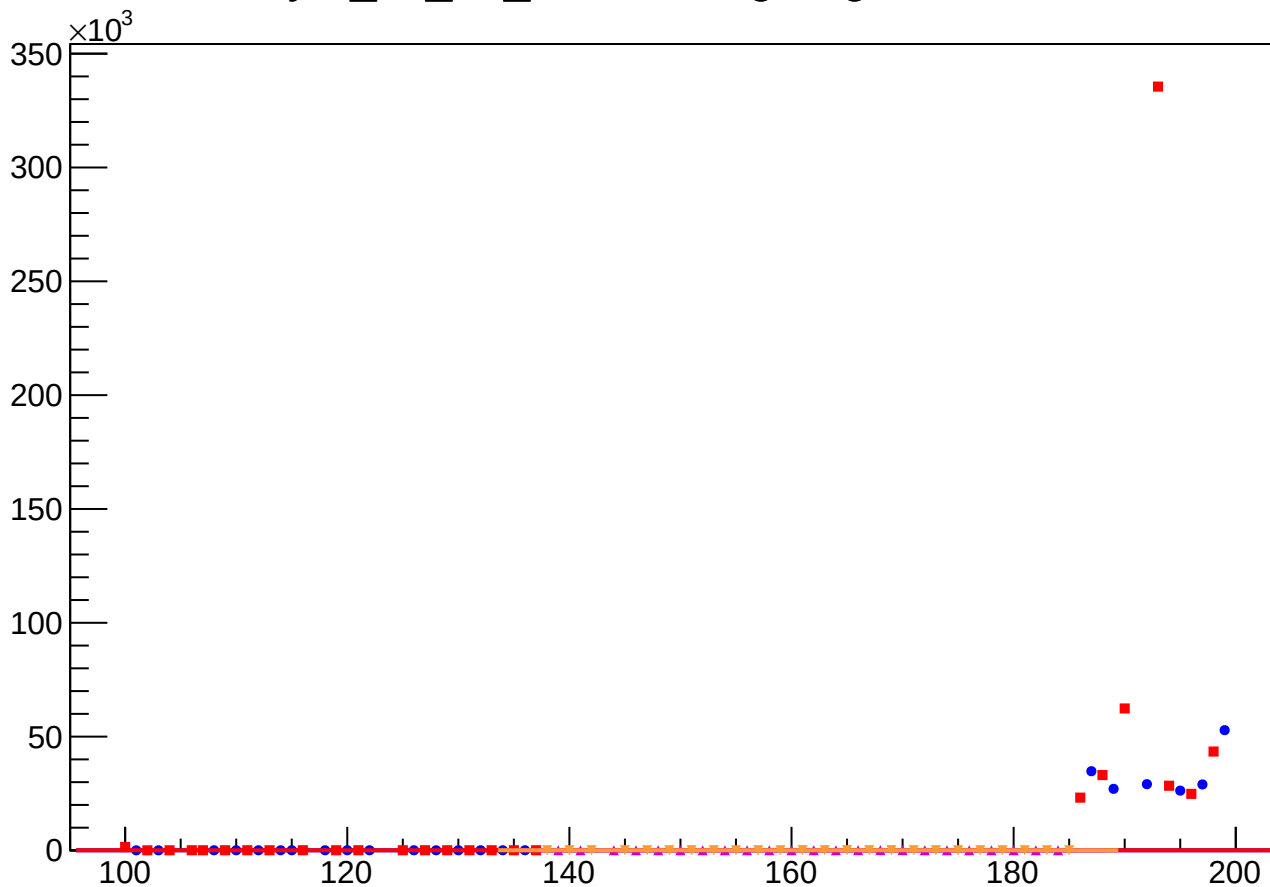
Right: -9.258+/-21.389 χ^2/NDF : 38.7/45

In: 31.450+/-17.533 χ^2/NDF :52.0/44

Out: 1.770+/-17.558 χ^2/NDF :36.5/47

All: 16.631+/-12.407 χ^2/NDF : 90.0/92

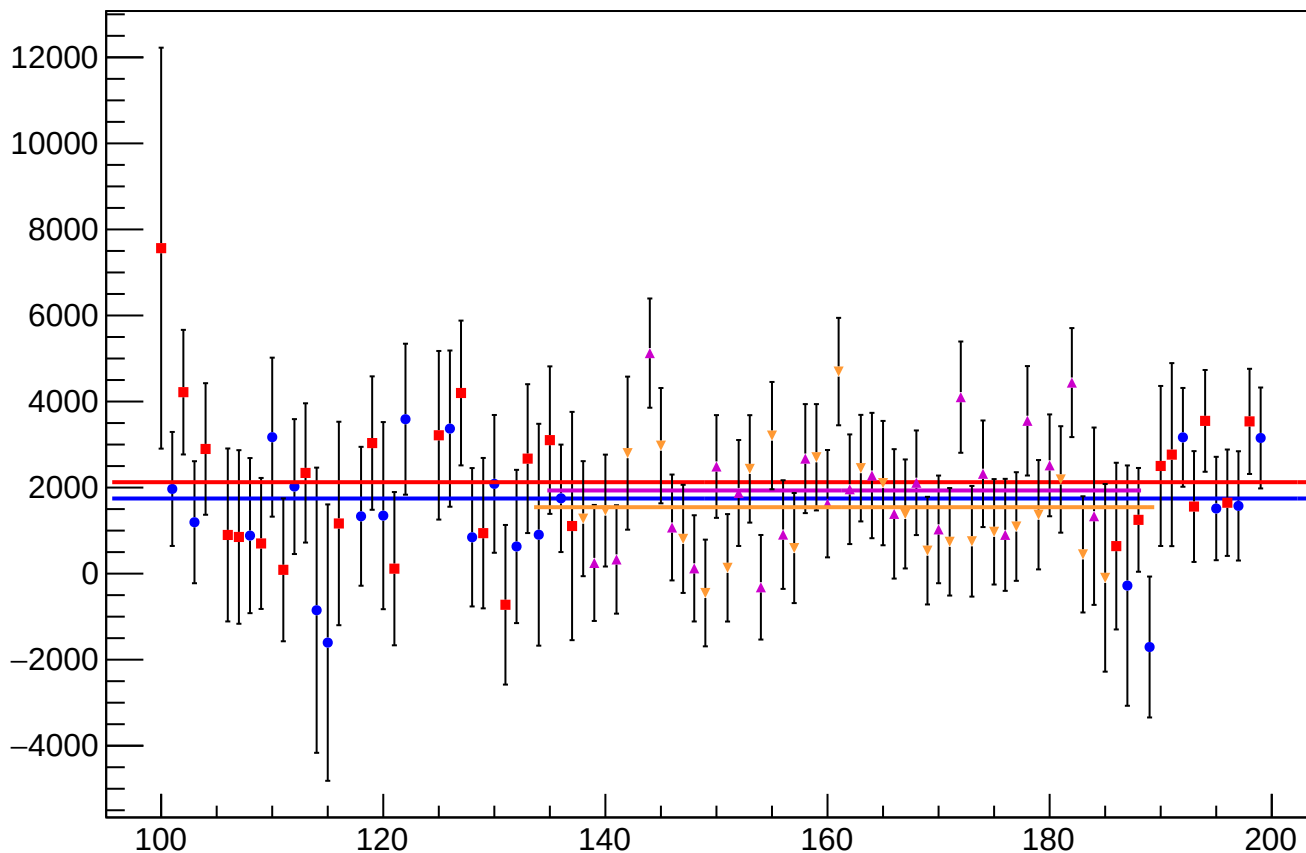
asym_ds_dd_rms vs Slug, Sign Corrected



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: 79.380 $\pm$ 0.022 χ^2 /NDF: 4194101.1/24
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: 77.701 $\pm$ 0.015 χ^2 /NDF: 7790746.6/46
In: 85.022 $\pm$ 0.012 χ^2 /NDF: 4366256.9/44
Out: 86.302 $\pm$ 0.012 χ^2 /NDF: 4814309.5/48
All: 85.661 $\pm$ 0.009 χ^2 /NDF: 9185893.5/93

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1746.160 $\pm$ 339.653 χ^2/NDF : 13.6/21

Left Out: 1544.102 $\pm$ 266.270 χ^2/NDF : 20.0/23

Right Out: 2125.305 $\pm$ 321.370 χ^2/NDF : 18.3/25

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

Left: 1737.287 $\pm$ 188.892 χ^2/NDF : 48.0/46

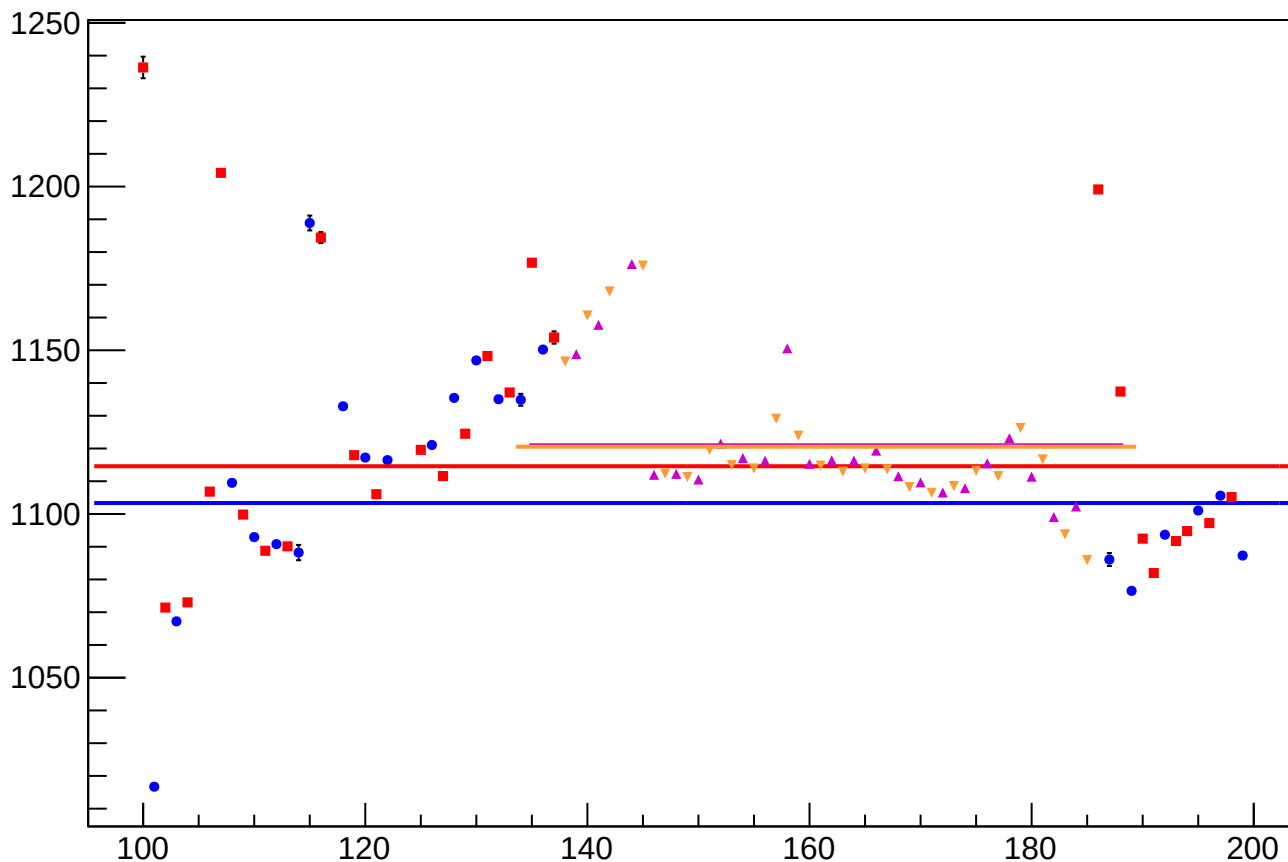
Right: 1946.212 $\pm$ 233.439 χ^2/NDF : 32.5/47

In: 1861.307 $\pm$ 210.396 χ^2/NDF : 40.8/44

Out: 1780.682 $\pm$ 205.036 χ^2/NDF : 40.2/49

All: 1819.955 $\pm$ 146.841 χ^2/NDF : 81.0/94

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1103.351 $\pm$ 0.240 χ^2 /NDF: 19752.8/21

Left Out: 1120.543 $\pm$ 0.188 χ^2 /NDF:10252.7/23

Right Out: 1114.588 $\pm$ 0.227 χ^2 /NDF: 22658.5/25

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

Left: 1120.765 $\pm$ 0.134 χ^2 /NDF: 19897.3/46

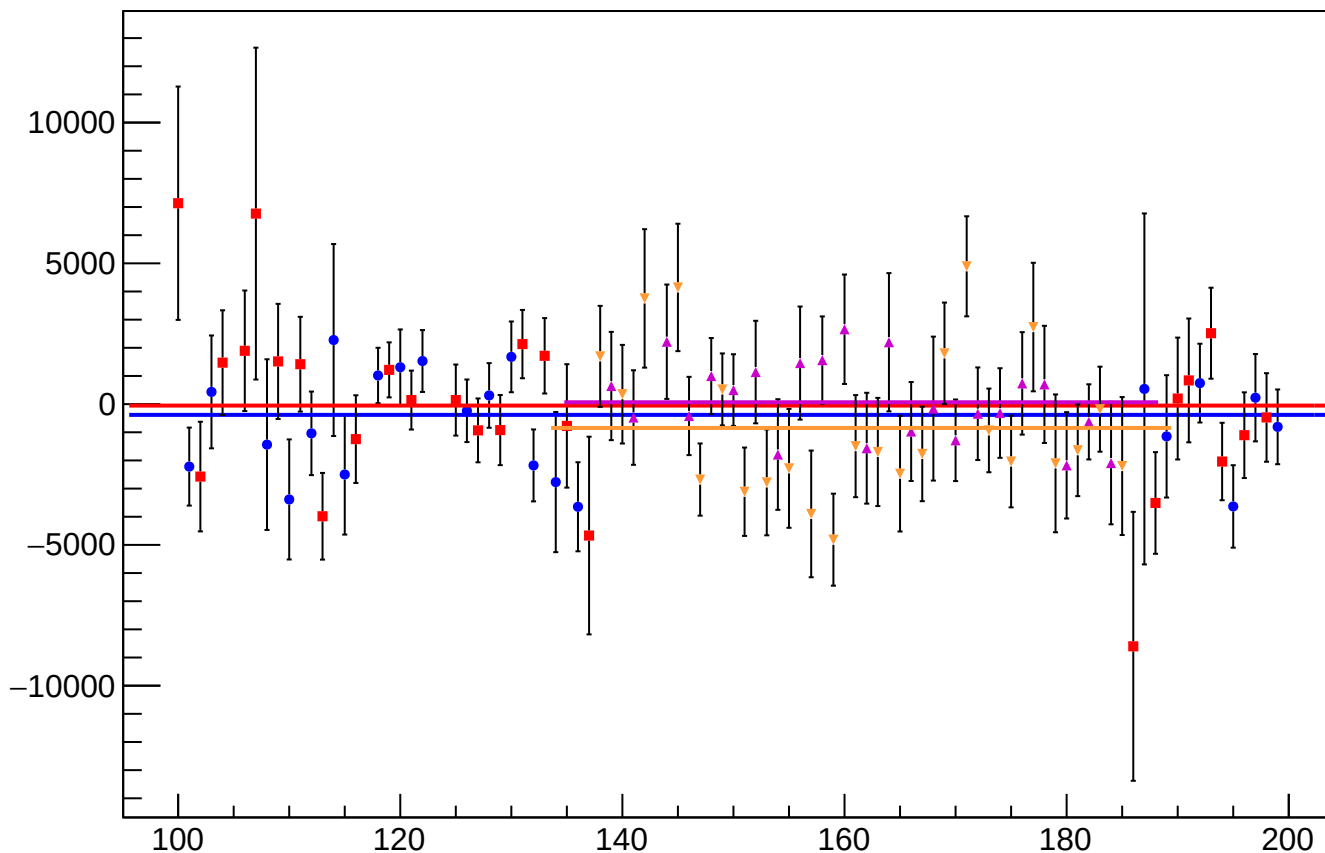
Right: 1109.280 $\pm$ 0.165 χ^2 /NDF: 43566.3/47

In: 1114.222 $\pm$ 0.149 χ^2 /NDF:32719.1/44

Out: 1118.119 $\pm$ 0.145 χ^2 /NDF:33318.4/49

All: 1116.221 $\pm$ 0.104 χ^2 /NDF: 66389.3/94

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -382.141+/-318.619 χ^2/NDF : 28.7/21

Left Out: -845.009+/-361.141 χ^2/NDF :43.2/23

Right Out: -51.632+/-310.981 χ^2/NDF : 37.9/25

Left In: 65.738+/-358.785 χ^2/NDF :12.1/22

Left: -386.655+/-254.528 χ^2/NDF : 58.6/46

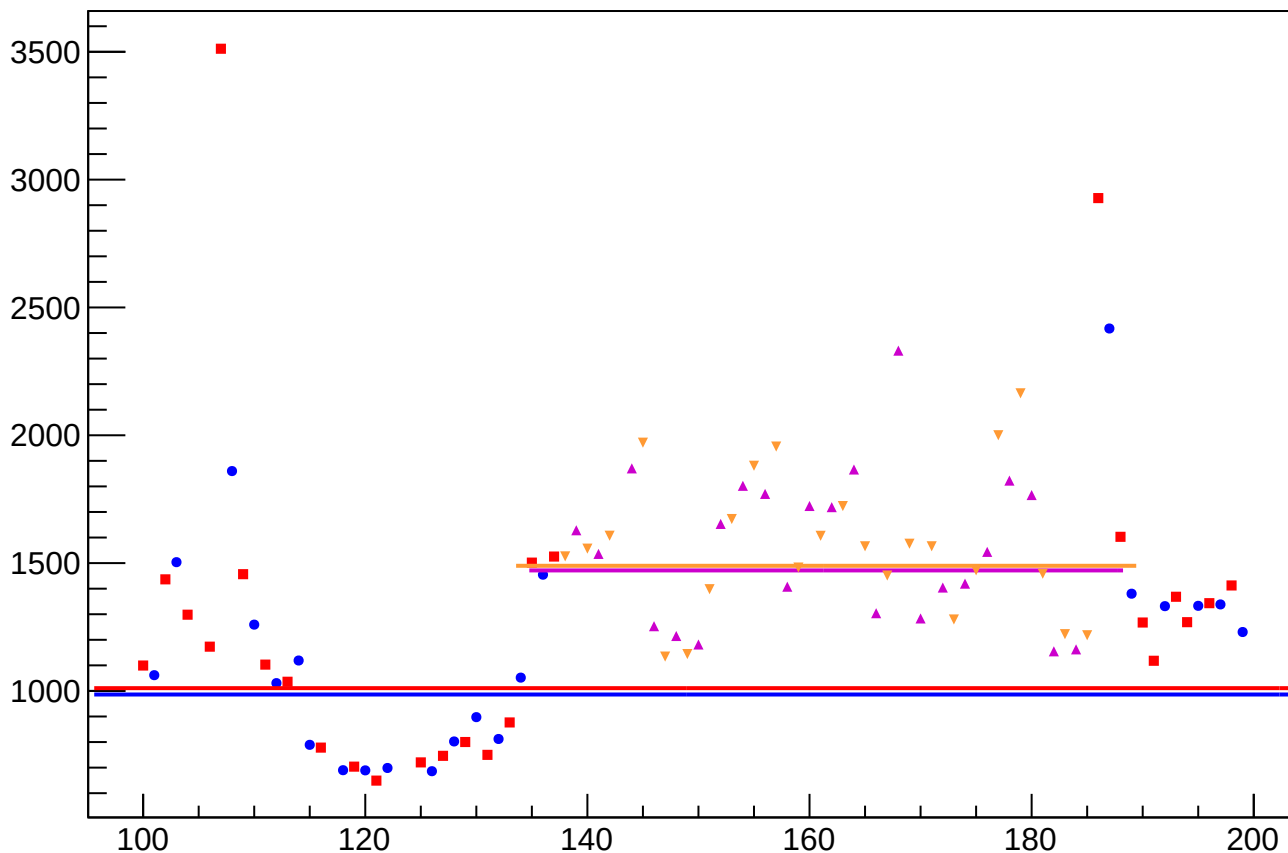
Right: -212.878+/-222.548 χ^2/NDF : 67.1/47

In: -184.665+/-238.238 χ^2/NDF :41.7/44

Out: -389.439+/-235.652 χ^2/NDF :83.9/49

All: -288.170+/-167.538 χ^2/NDF : 125.9/94

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: 1010.832+/-0.220 χ^2/NDF : 2590786.3/25

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

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

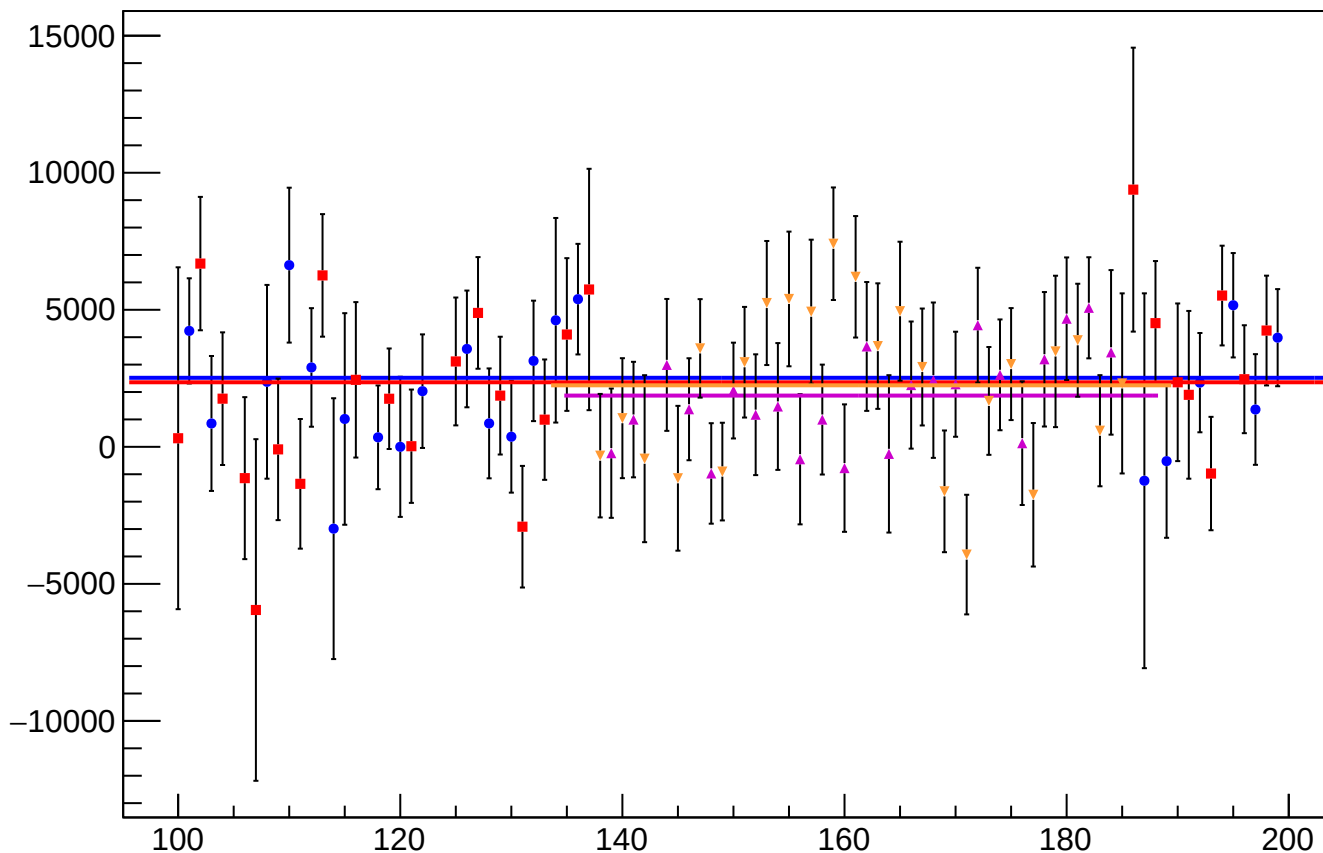
Right: 998.720+/-0.157 χ^2/NDF : 4370900.8/47

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

Out: 1214.644+/-0.167 χ^2/NDF : 5617610.0/49

All: 1207.412+/-0.118 χ^2/NDF : 10547150.1/9

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: 2355.348 $\pm$ 475.363 χ^2 /NDF: 32.3/25

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

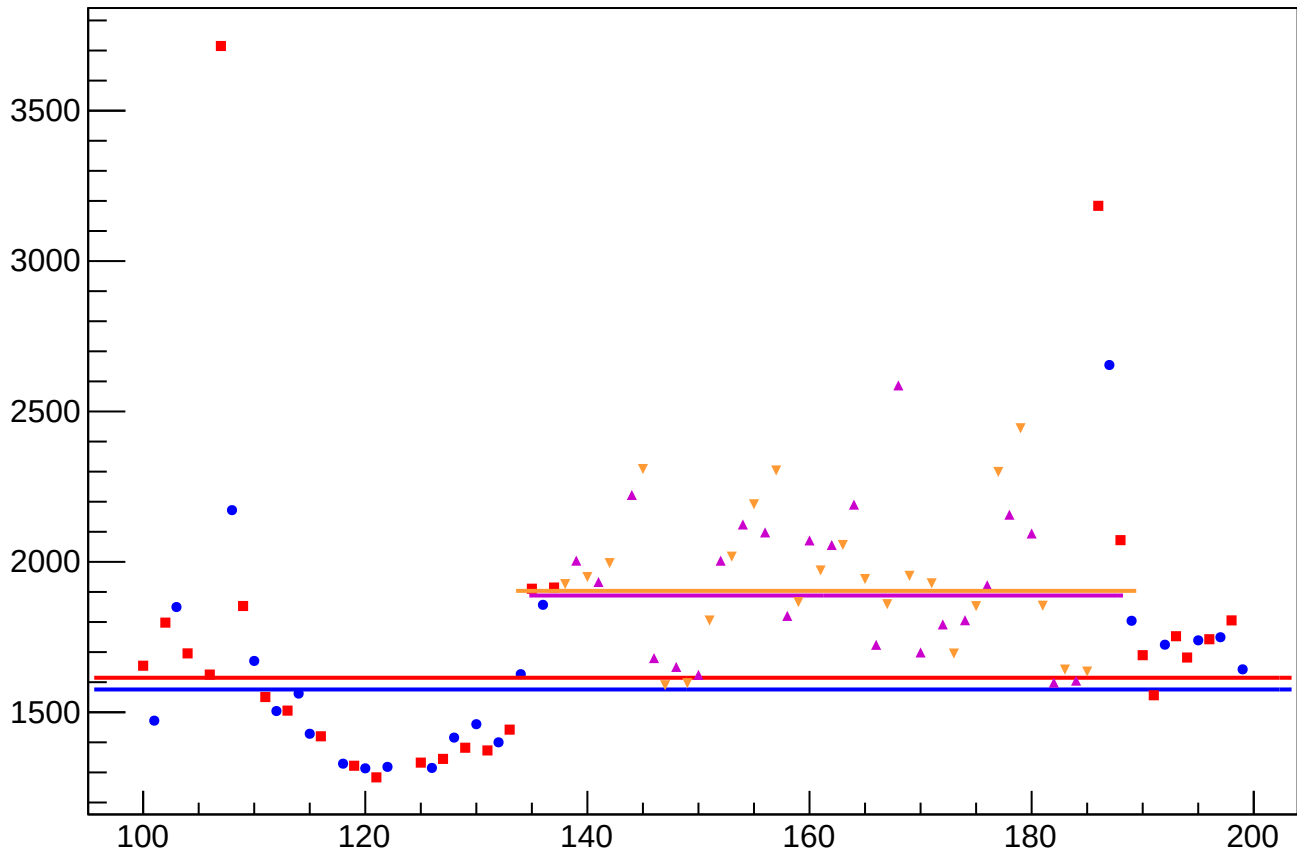
Right: 2434.530 $\pm$ 341.299 χ^2 /NDF: 48.5/47

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

Out: 2297.634 $\pm$ 329.251 χ^2 /NDF:70.9/49

All: 2234.870 $\pm$ 234.375 χ^2 /NDF: 102.9/94

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: 1614.741 $\pm$ 0.336 χ^2/NDF : 836858.7/25

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

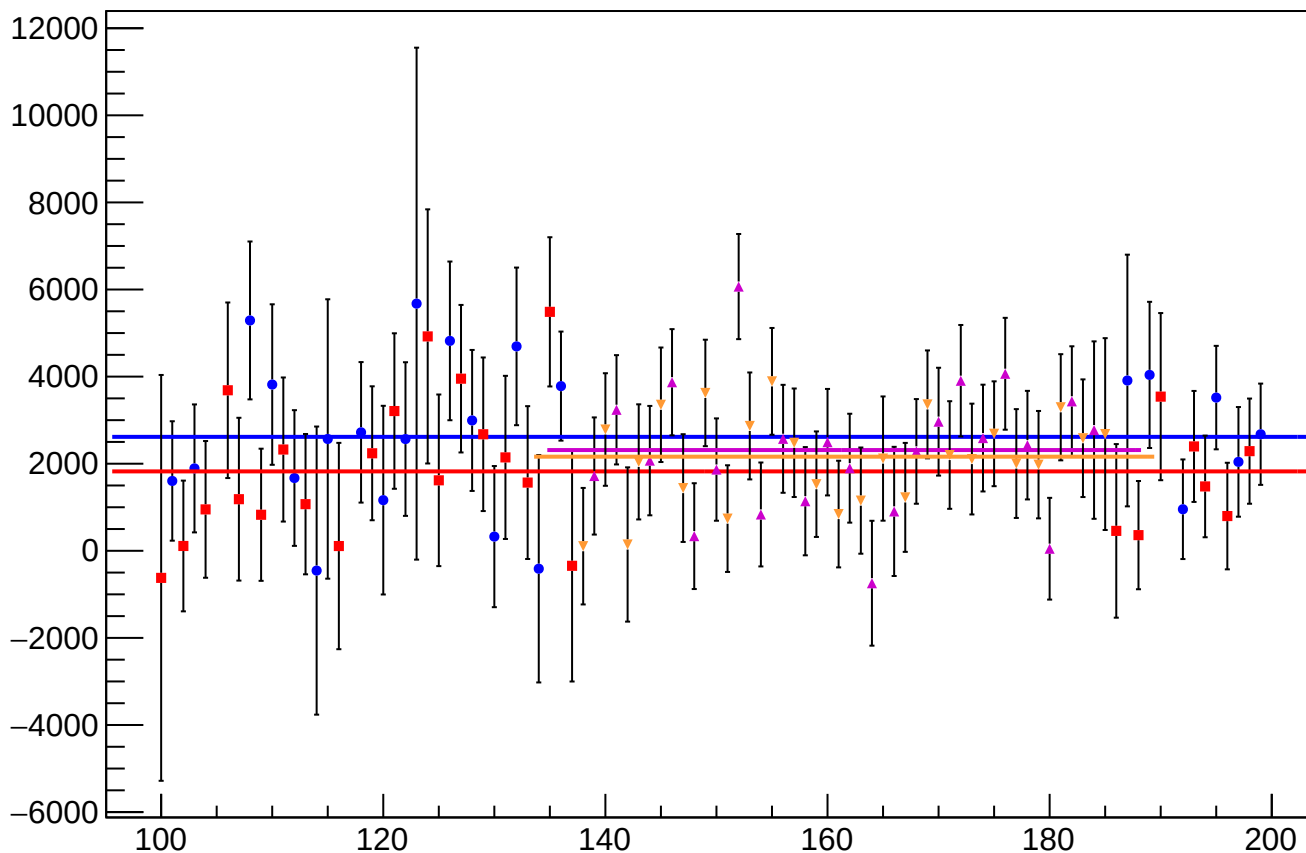
Right: 1595.856 $\pm$ 0.241 χ^2/NDF : 1234284.1/47

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

Out: 1765.013 $\pm$ 0.233 χ^2/NDF : 1682810.2/49

All: 1754.371 $\pm$ 0.166 χ^2/NDF : 3018221.2/94

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: 1823.463 $\pm$ 323.777 χ^2 /NDF: 16.8/25

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

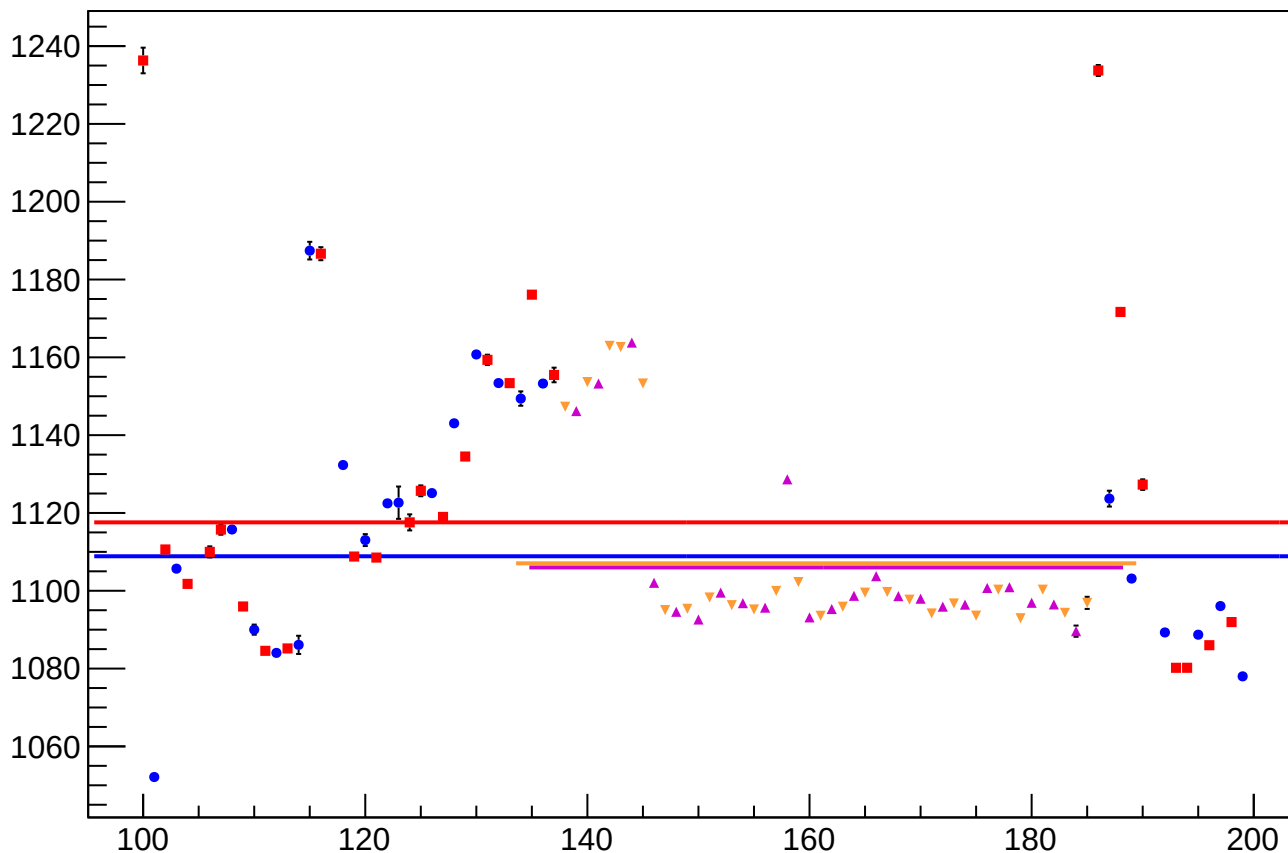
Right: 2199.801 $\pm$ 234.711 χ^2 /NDF: 35.9/48

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

Out: 2030.474 $\pm$ 201.543 χ^2 /NDF:32.6/50

All: 2221.838 $\pm$ 145.044 χ^2 /NDF: 82.4/96

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: 1117.584 $\pm$ 0.229 χ^2 /NDF: 26824.6/25

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

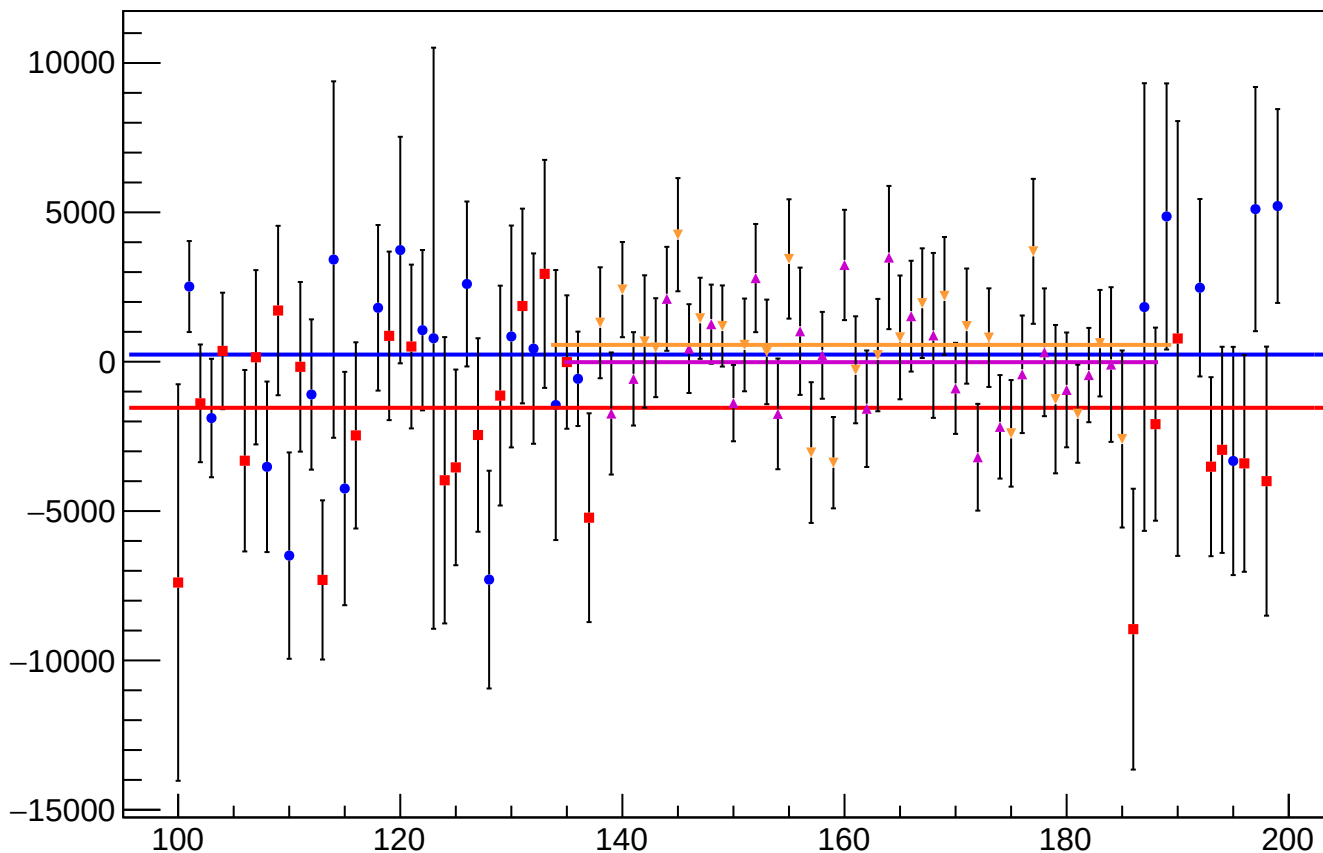
Right: 1113.448 $\pm$ 0.166 χ^2 /NDF: 43707.2/48

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

Out: 1111.136 $\pm$ 0.143 χ^2 /NDF:43295.1/50

All: 1109.179 $\pm$ 0.103 χ^2 /NDF: 71521.4/96

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: -1543.063 $\pm$ 602.860 χ^2 /NDF: 18.6/25

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

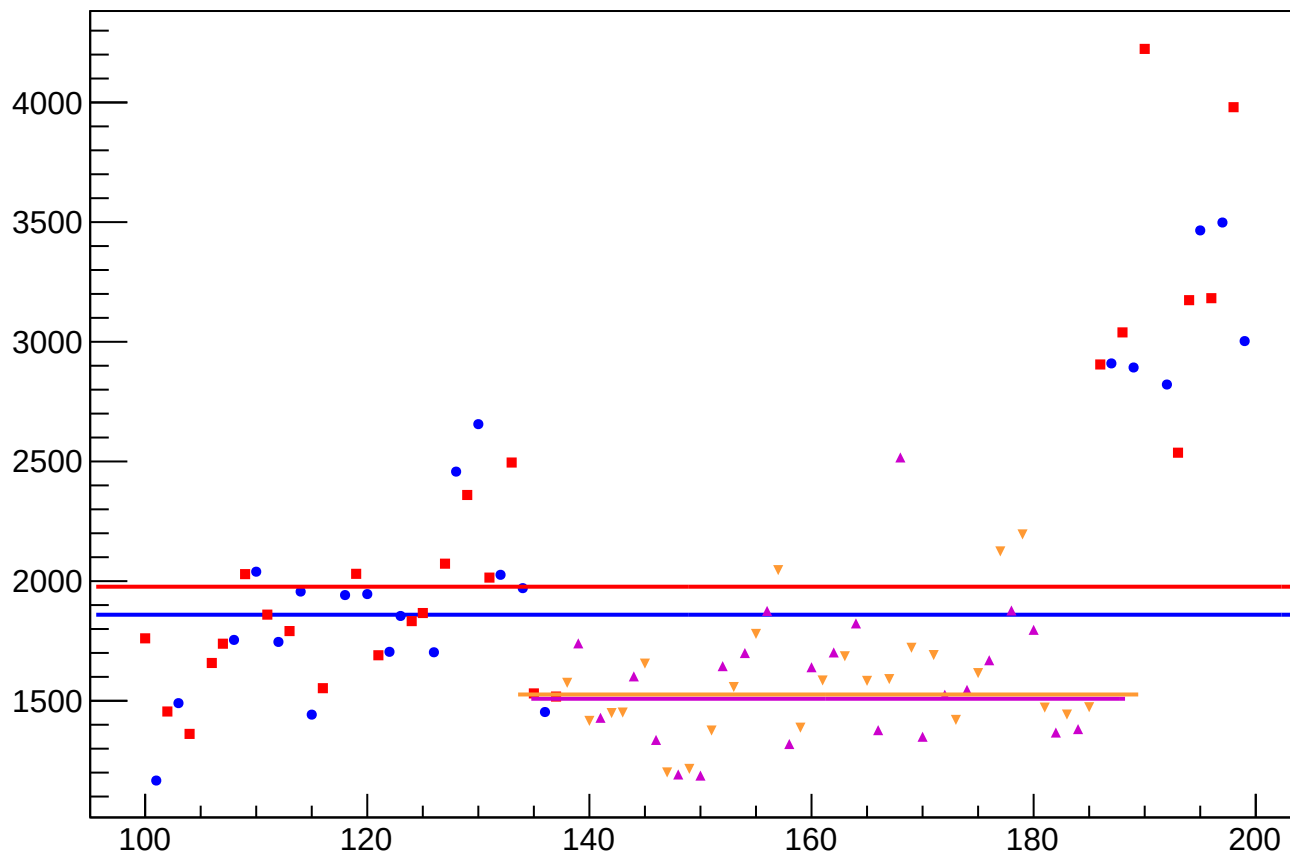
Right: -656.553 $\pm$ 427.347 χ^2 /NDF: 46.7/48

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

Out: 7.566 $\pm$ 309.655 χ^2 /NDF:54.3/50

All: 29.840 $\pm$ 220.414 χ^2 /NDF: 98.4/96

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1859.647+/-0.428

χ^2/NDF : 2098942.9/22

Left Out: 1526.391+/-0.255

χ^2/NDF : 753714.4/24

Right Out: 1976.742+/-0.426

χ^2/NDF : 2040574.2/25

Left In: 1508.581+/-0.259

χ^2/NDF : 931684.8/22

Left: 1517.632+/-0.182

χ^2/NDF : 1687794.7/47

Right: 1918.486+/-0.302

χ^2/NDF : 4177055.3/48

In: 1602.762+/-0.222

χ^2/NDF : 3521984.7/45

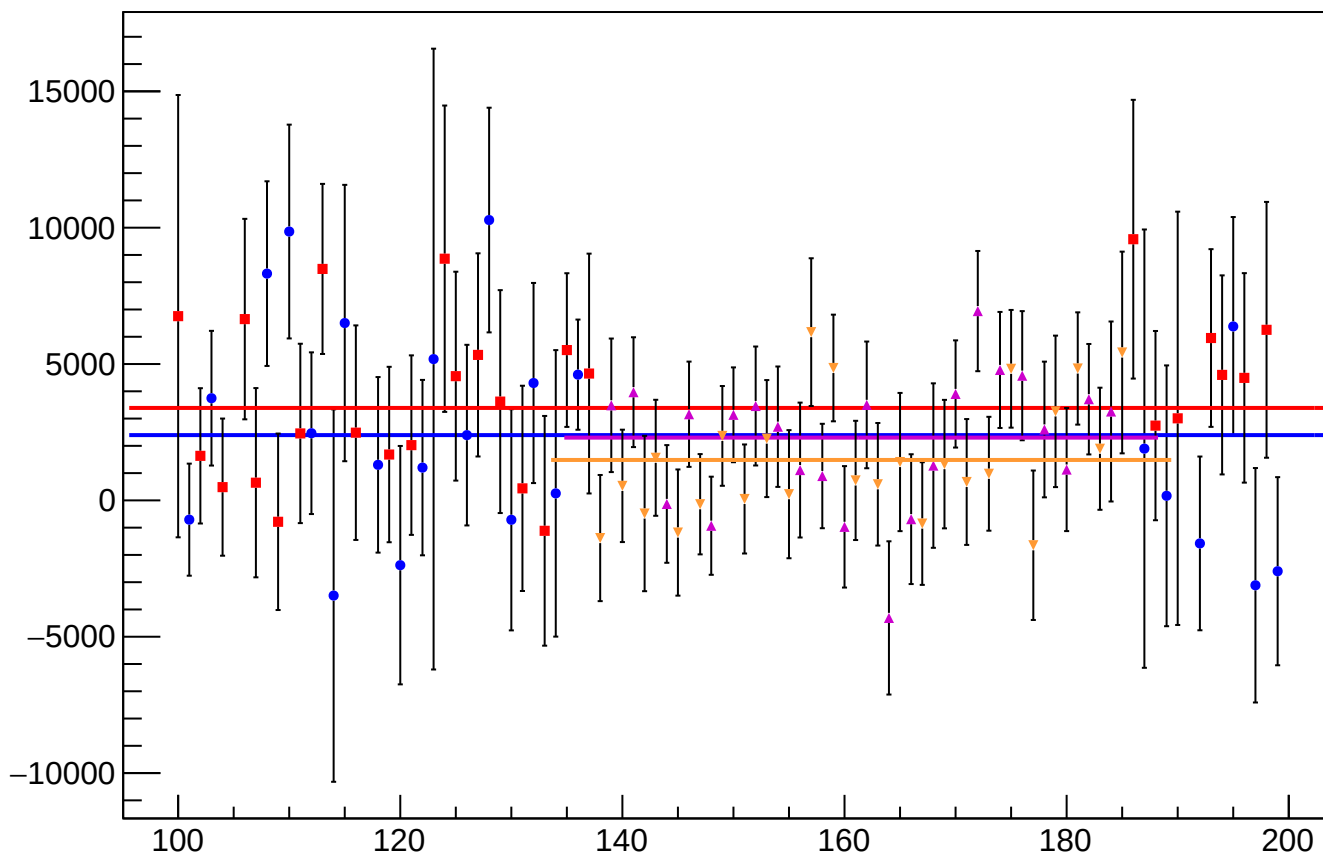
Out: 1645.207+/-0.219

χ^2/NDF : 3615921.7/50

All: 1624.268+/-0.156

χ^2/NDF : 7156444.2/96

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: 3390.077 $\pm$ 708.008 χ^2 /NDF: 14.8/25

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

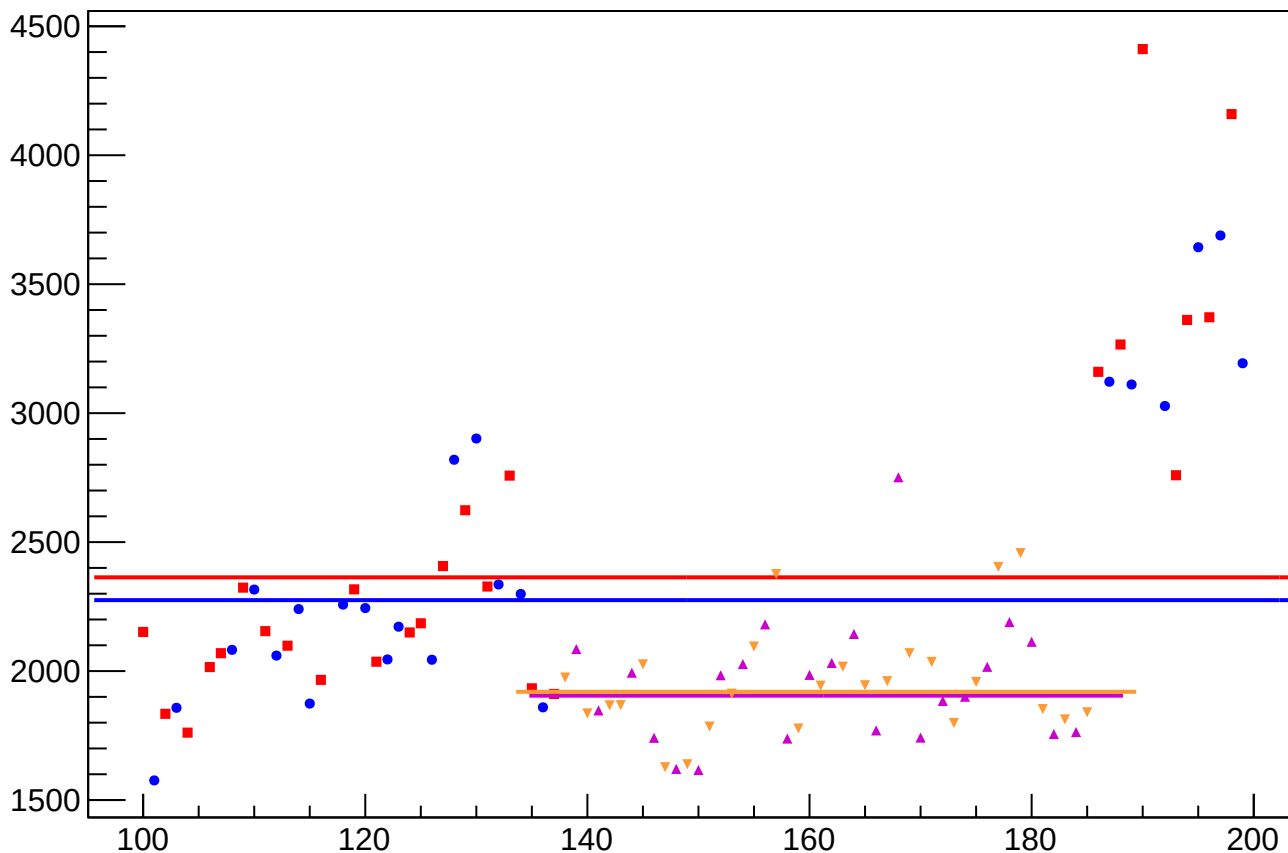
Right: 2903.451 $\pm$ 506.375 χ^2 /NDF: 40.3/48

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

Out: 2031.249 $\pm$ 379.771 χ^2 /NDF:40.9/50

All: 2176.425 $\pm$ 271.320 χ^2 /NDF: 90.5/96

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: 2363.406+/-0.501 χ^2/NDF : 1343900.9/25

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

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

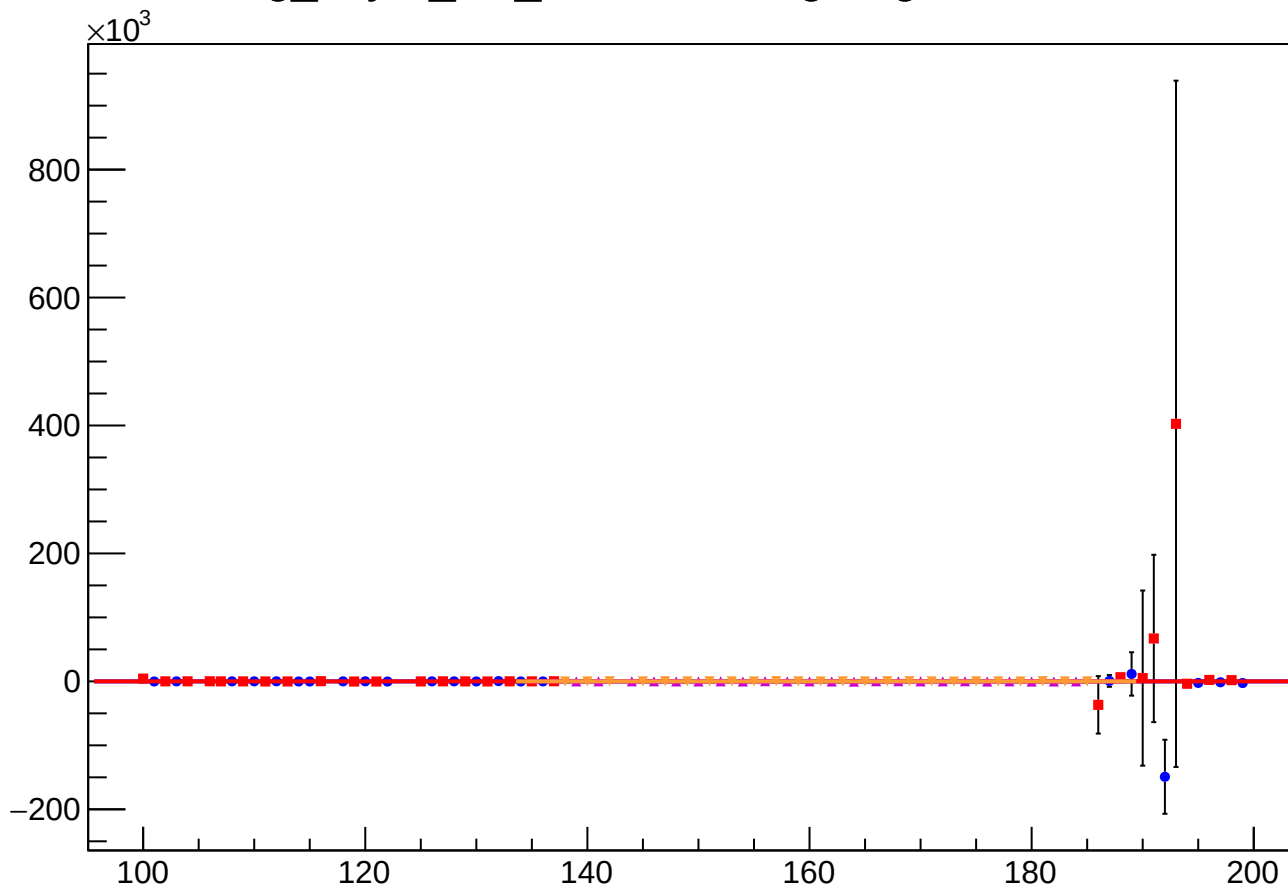
Right: 2320.235+/-0.358 χ^2/NDF : 2651546.3/48

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

Out: 2047.385+/-0.269 χ^2/NDF : 2269532.5/50

All: 2029.437+/-0.192 χ^2/NDF : 4391423.8/96

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.266 ± 36.767 χ^2/NDF : 24.1/21

Left Out: 12.260 ± 26.260 χ^2/NDF : 35.9/23

Right Out: 1.944 ± 36.752 χ^2/NDF : 17.4/25

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

Left: 18.503 ± 18.598 χ^2/NDF : 72.4/46

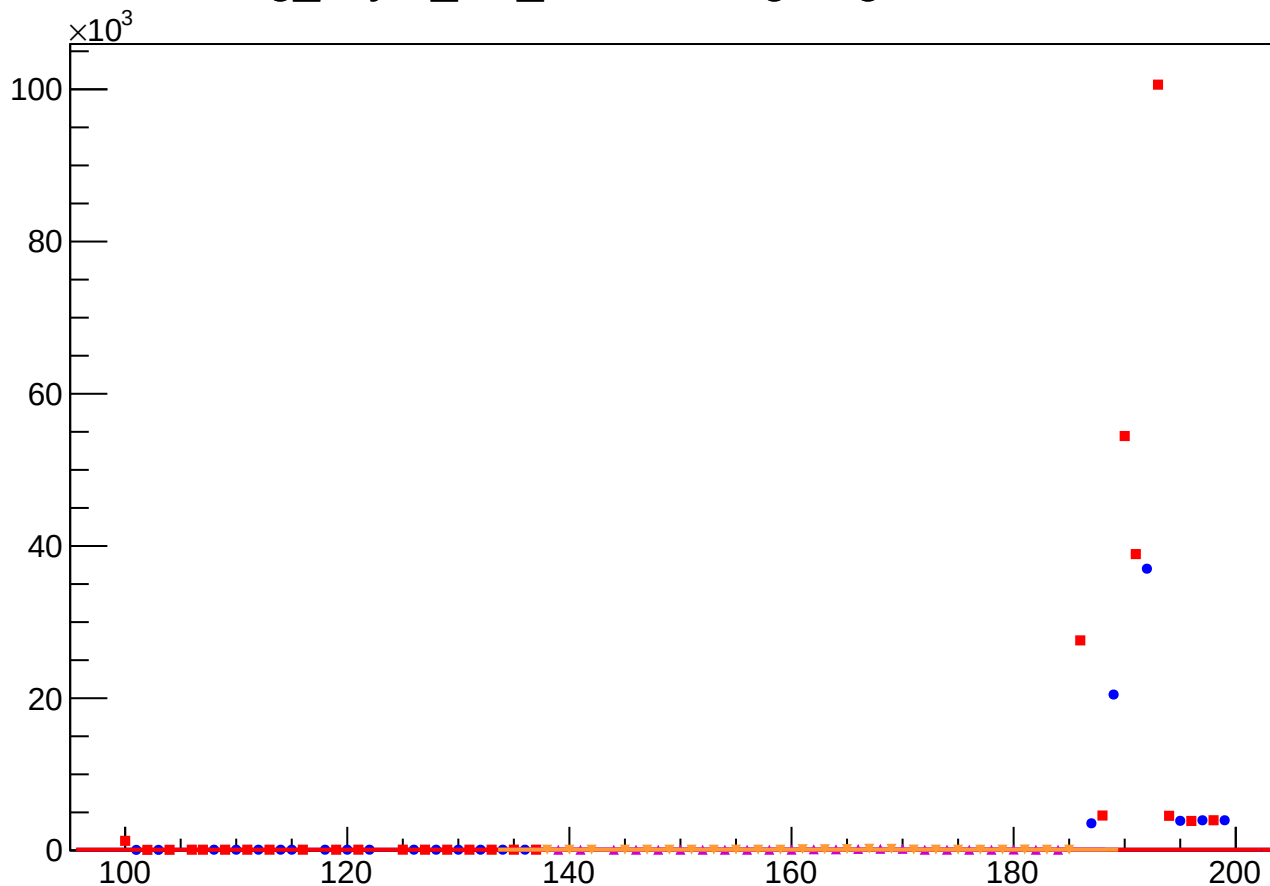
Right: 0.340 ± 25.993 χ^2/NDF : 41.5/47

In: 15.949 ± 21.414 χ^2/NDF : 60.8/44

Out: 8.773 ± 21.366 χ^2/NDF : 53.4/49

All: 12.353 ± 15.125 χ^2/NDF : 114.2/94

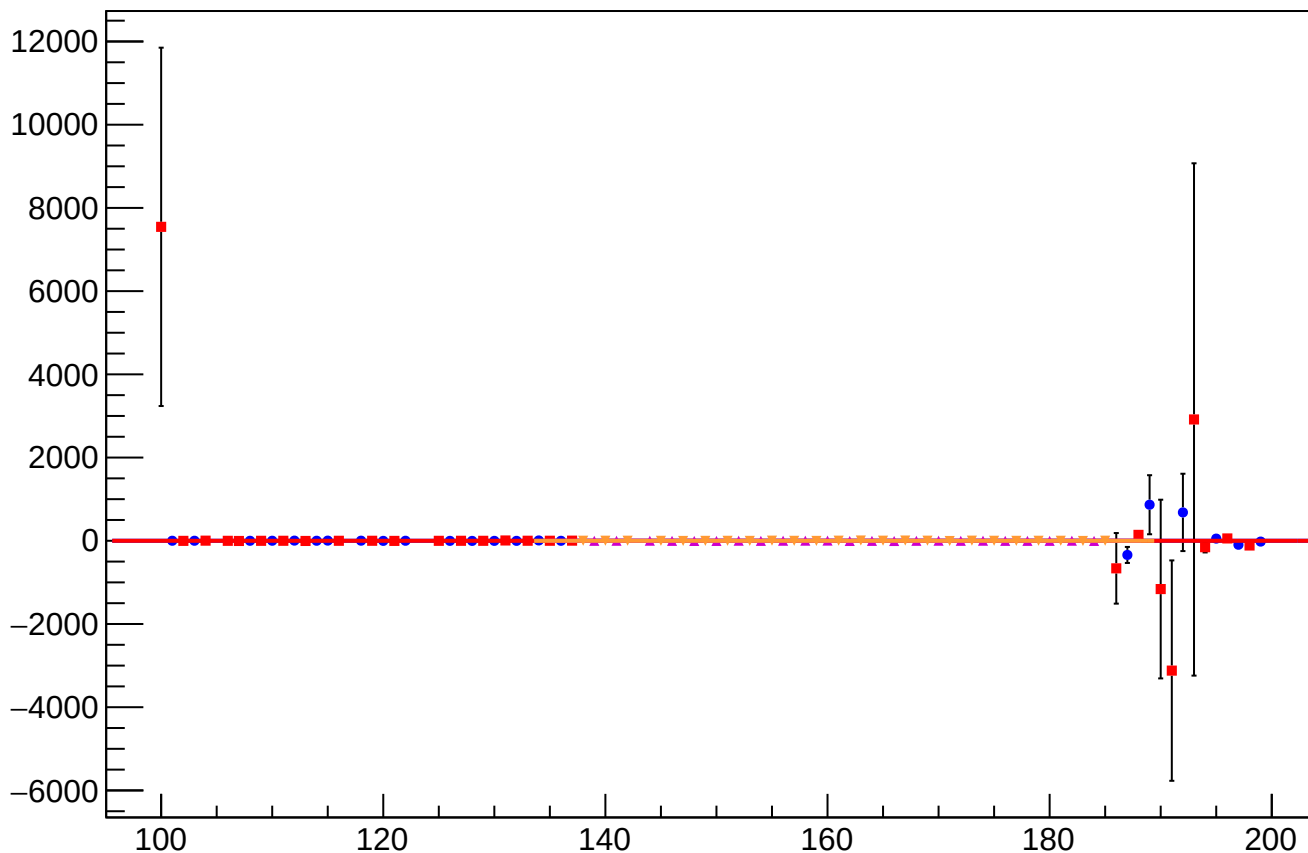
reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.963 $\pm$ 0.026 χ^2 /NDF: 6664104.6/21
 Left Out: 108.059 $\pm$ 0.019 χ^2 /NDF:1434979.3/23
 Right Out: 97.240 $\pm$ 0.026 χ^2 /NDF: 6762786.9/25
 Left In: 107.672 $\pm$ 0.019 χ^2 /NDF:1491034.7/22

Left: 107.867 $\pm$ 0.013 χ^2 /NDF: 2926230.6/46
 Right: 96.102 $\pm$ 0.018 χ^2 /NDF: 13430728.8/47
 In: 103.361 $\pm$ 0.015 χ^2 /NDF:8313046.2/44
 Out: 104.403 $\pm$ 0.015 χ^2 /NDF:8312507.8/49
 All: 103.883 $\pm$ 0.011 χ^2 /NDF: 16627925.2/94

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: -0.347+/-0.644 χ^2/NDF : 29.4/25

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

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

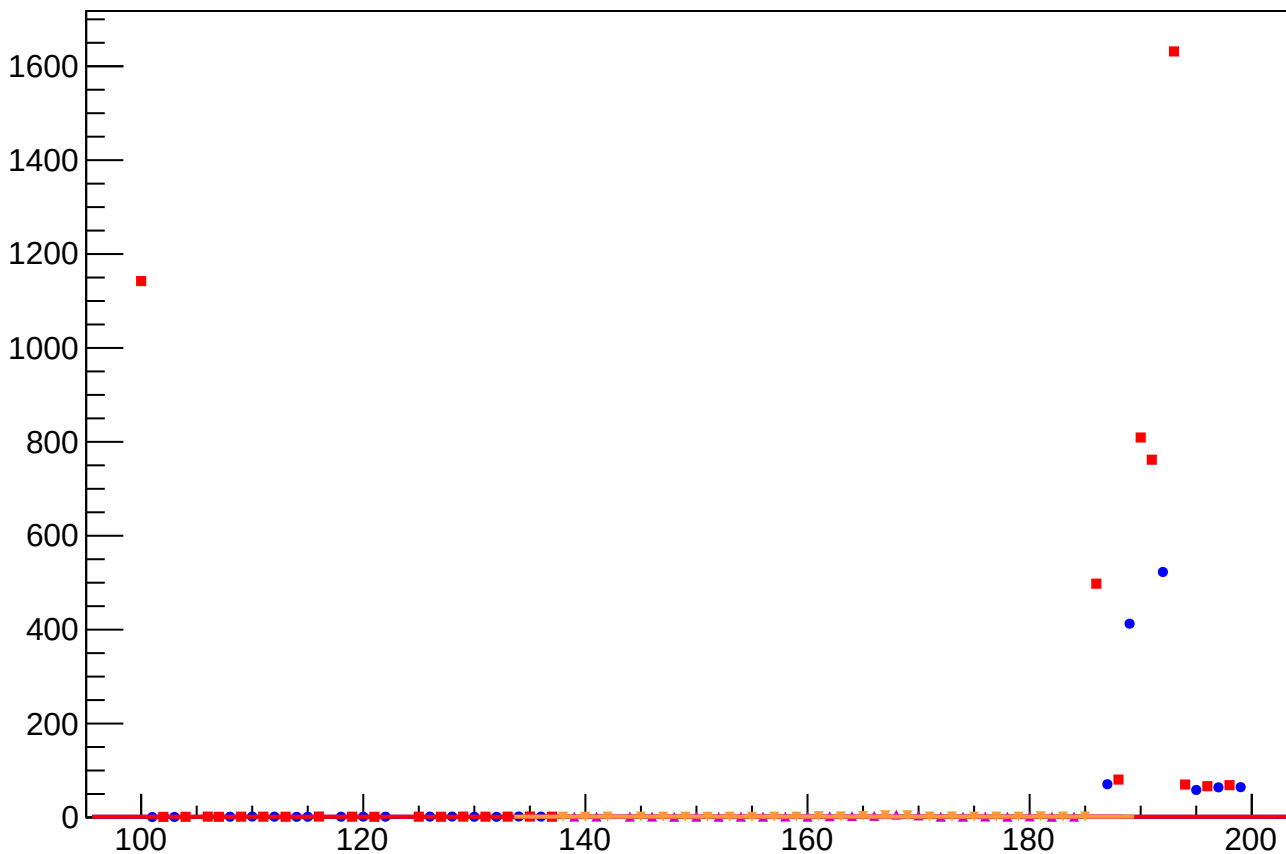
Right: 0.034+/-0.445 χ^2/NDF : 47.7/47

In: 0.105+/-0.381 χ^2/NDF : 42.9/44

Out: -0.468+/-0.382 χ^2/NDF : 60.0/49

All: -0.181+/-0.270 χ^2/NDF : 104.0/94

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: 1.569+/-0.000 χ^2/NDF : 6060622.2/25

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

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

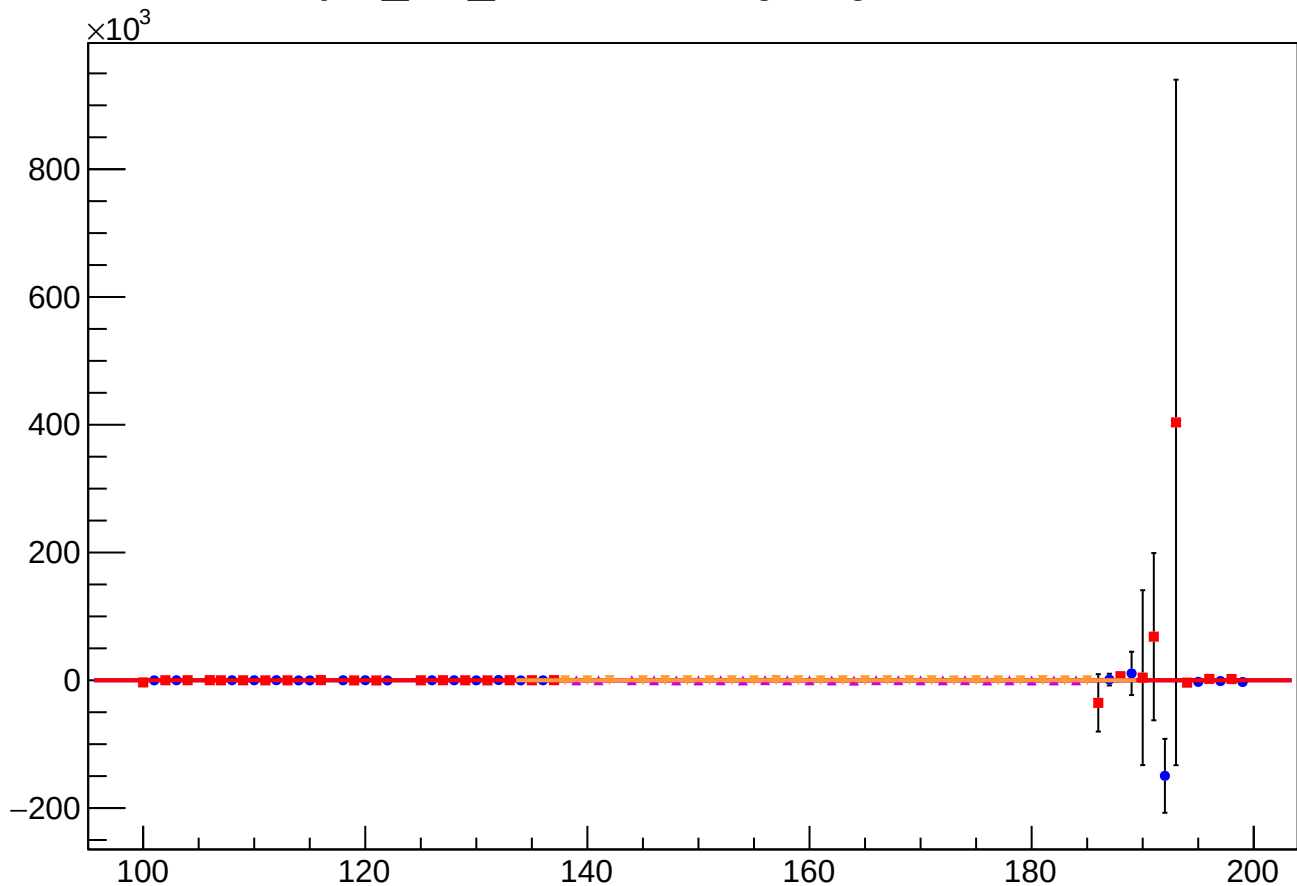
Right: 1.498+/-0.000 χ^2/NDF : 12301866.5/47

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

Out: 1.700+/-0.000 χ^2/NDF :7788593.3/49

All: 1.681+/-0.000 χ^2/NDF : 16357416.4/94

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: 1.704 ± 36.762 χ^2/NDF : 16.9/25

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

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

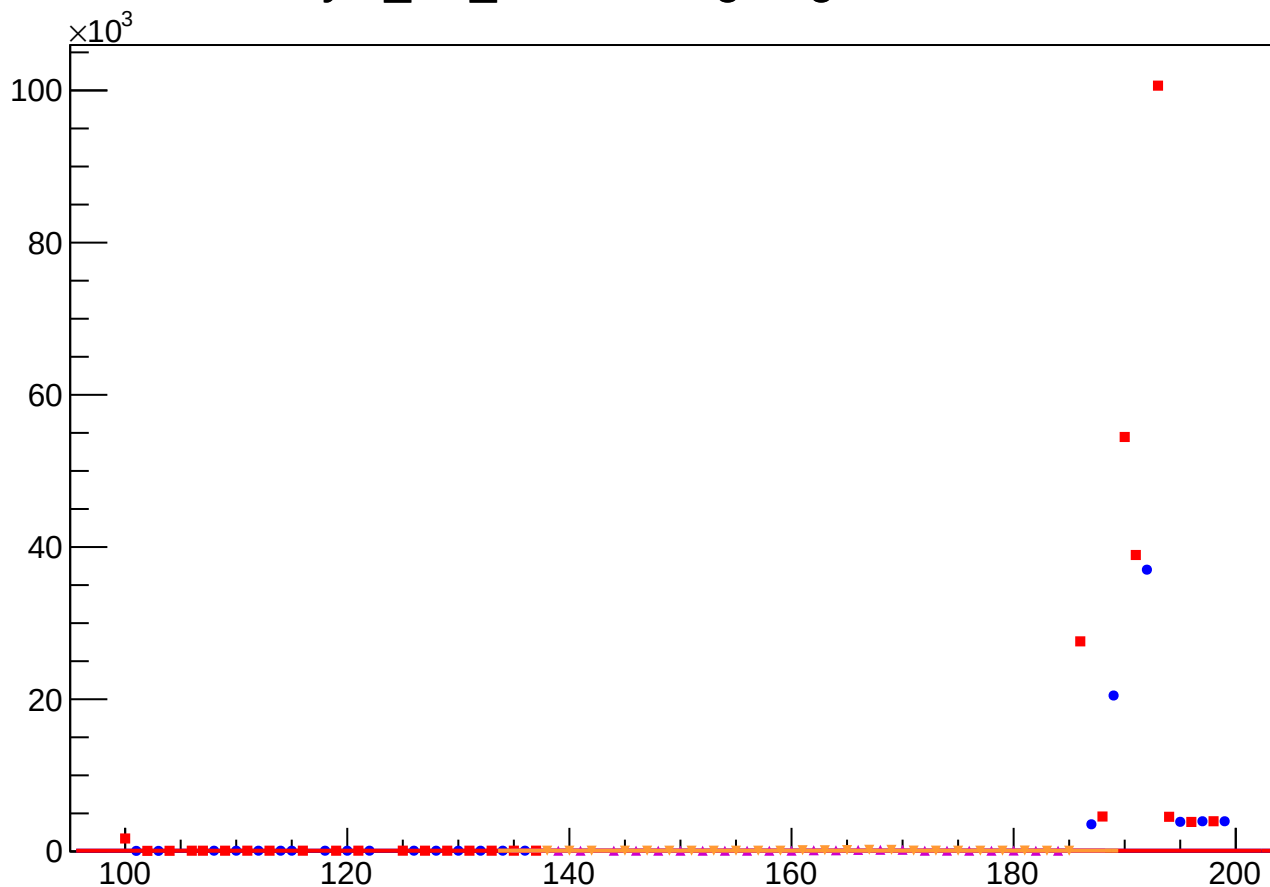
Right: 0.370 ± 26.000 χ^2/NDF : 41.1/47

In: 16.398 ± 21.420 χ^2/NDF : 60.3/44

Out: 9.147 ± 21.372 χ^2/NDF : 52.7/49

All: 12.764 ± 15.130 χ^2/NDF : 113.0/94

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: 97.249 $\pm$ 0.026 χ^2 /NDF: 6767998.2/25

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

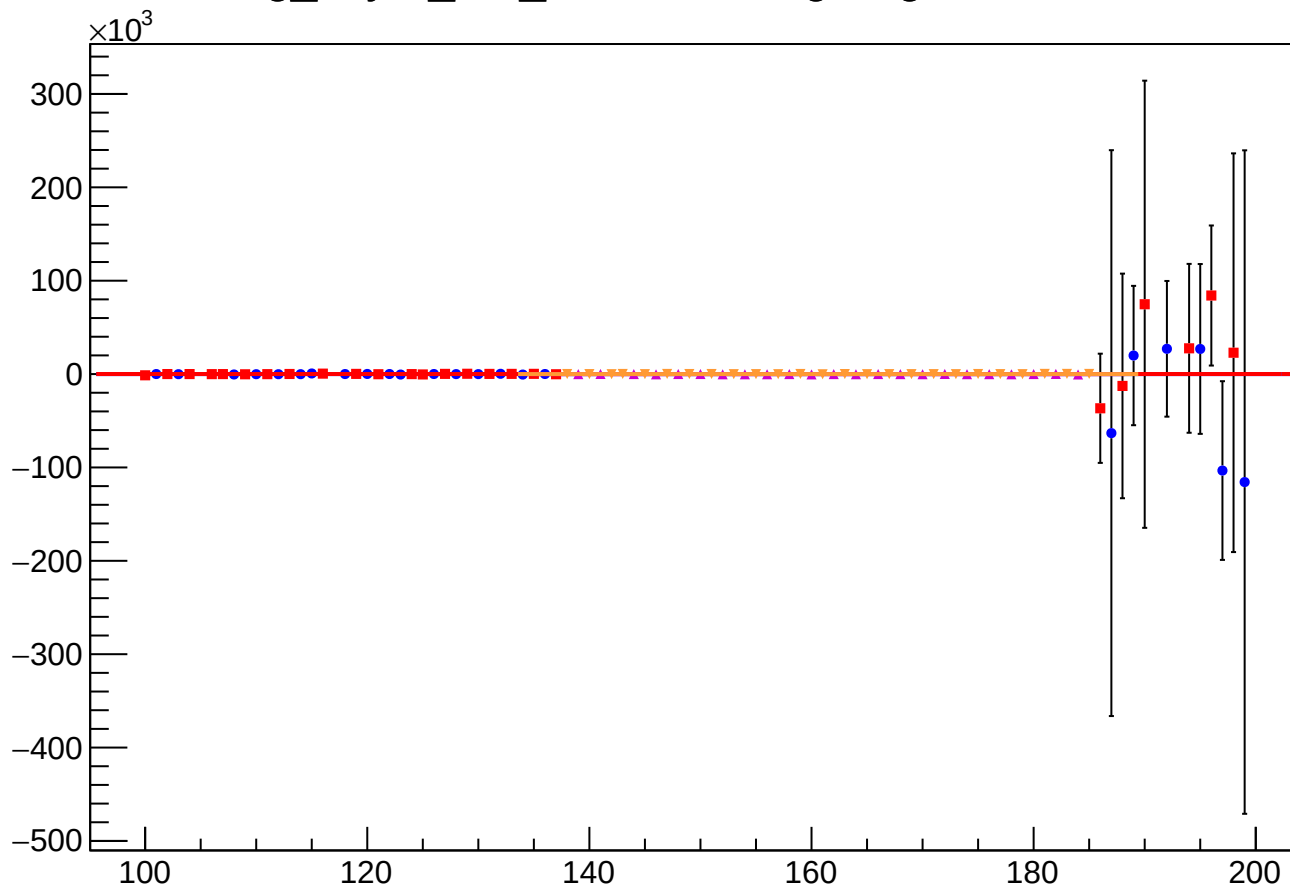
Right: 96.119 $\pm$ 0.018 χ^2 /NDF: 13435882.1/47

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

Out: 104.426 $\pm$ 0.015 χ^2 /NDF: 8319504.7/49

All: 103.909 $\pm$ 0.011 χ^2 /NDF: 16636266.2/94

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.799 ± 46.841 $\chi^2/\text{NDF}: 16.0/22$

Left Out: -12.829 ± 32.063 $\chi^2/\text{NDF}: 12.0/24$

Right Out: 53.404 ± 47.775 $\chi^2/\text{NDF}: 17.3/24$

Left In: -65.335 ± 32.944 $\chi^2/\text{NDF}: 19.3/22$

Left: -38.371 ± 22.977 $\chi^2/\text{NDF}: 32.6/47$

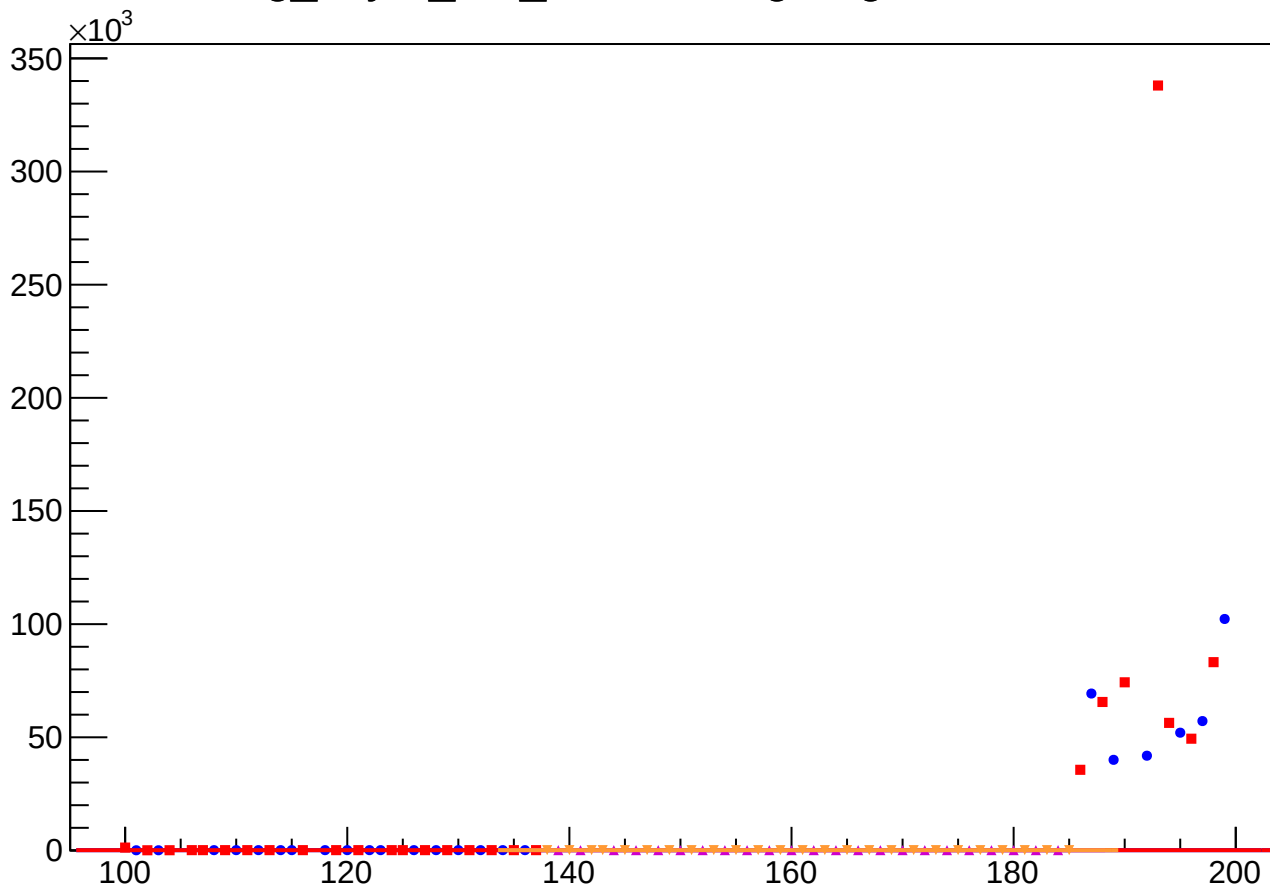
Right: 12.511 ± 33.447 $\chi^2/\text{NDF}: 34.7/47$

In: -52.582 ± 26.947 $\chi^2/\text{NDF}: 35.8/45$

Out: 7.739 ± 26.623 $\chi^2/\text{NDF}: 30.6/49$

All: -22.057 ± 18.939 $\chi^2/\text{NDF}: 68.9/95$

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: 124.808 $\pm$ 0.034 χ^2 /NDF: 4475885.4/25

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

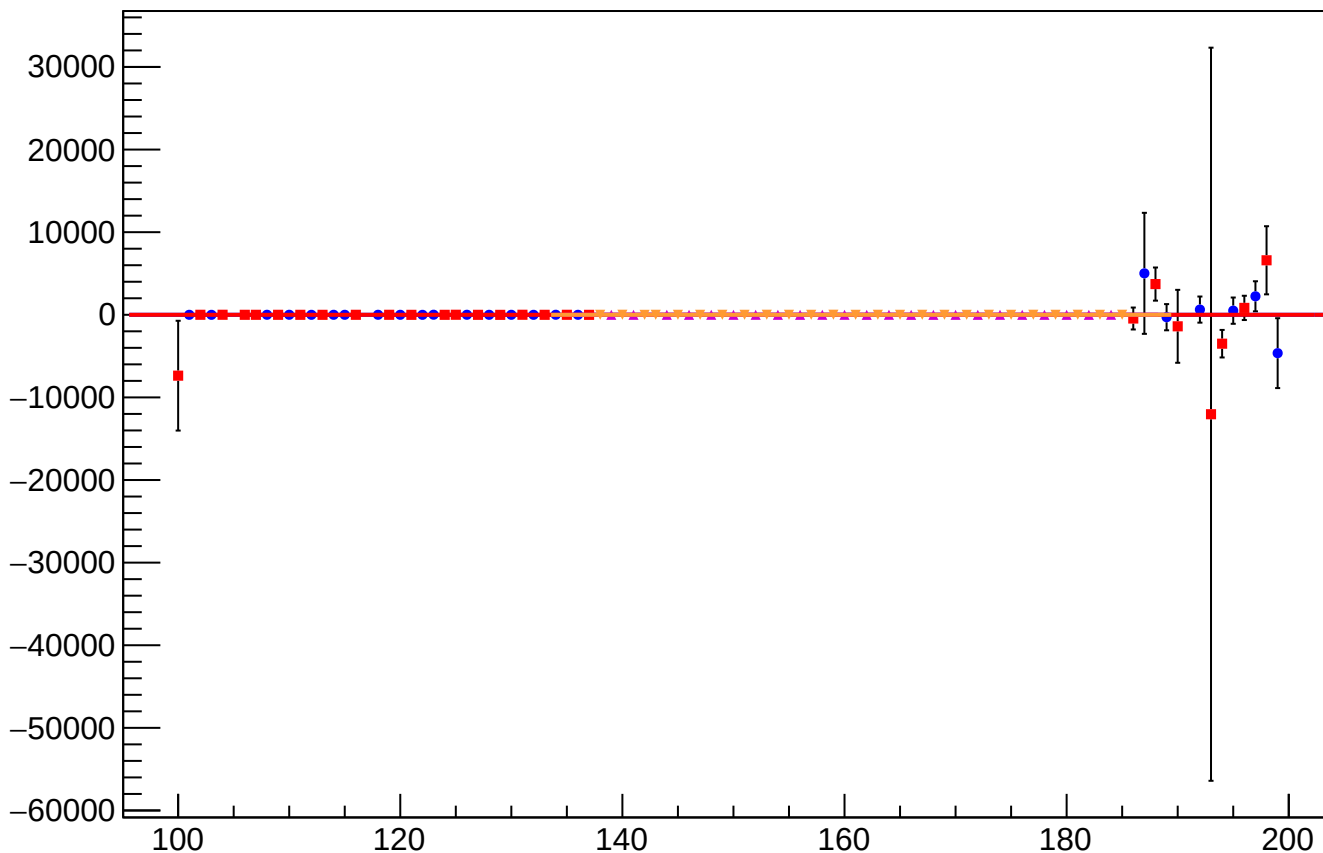
Right: 121.252 $\pm$ 0.024 χ^2 /NDF: 8468951.9/48

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

Out: 133.804 $\pm$ 0.019 χ^2 /NDF: 4579196.0/50

All: 132.515 $\pm$ 0.013 χ^2 /NDF: 8803728.8/96

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 $\chi^2/\text{NDF}: 15.7/22$

Left Out: 0.490 ± 0.572 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.638 ± 0.852 $\chi^2/\text{NDF}: 25.7/25$

Left In: 0.290 ± 0.579 $\chi^2/\text{NDF}: 20.7/22$

Left: 0.391 ± 0.407 $\chi^2/\text{NDF}: 49.7/47$

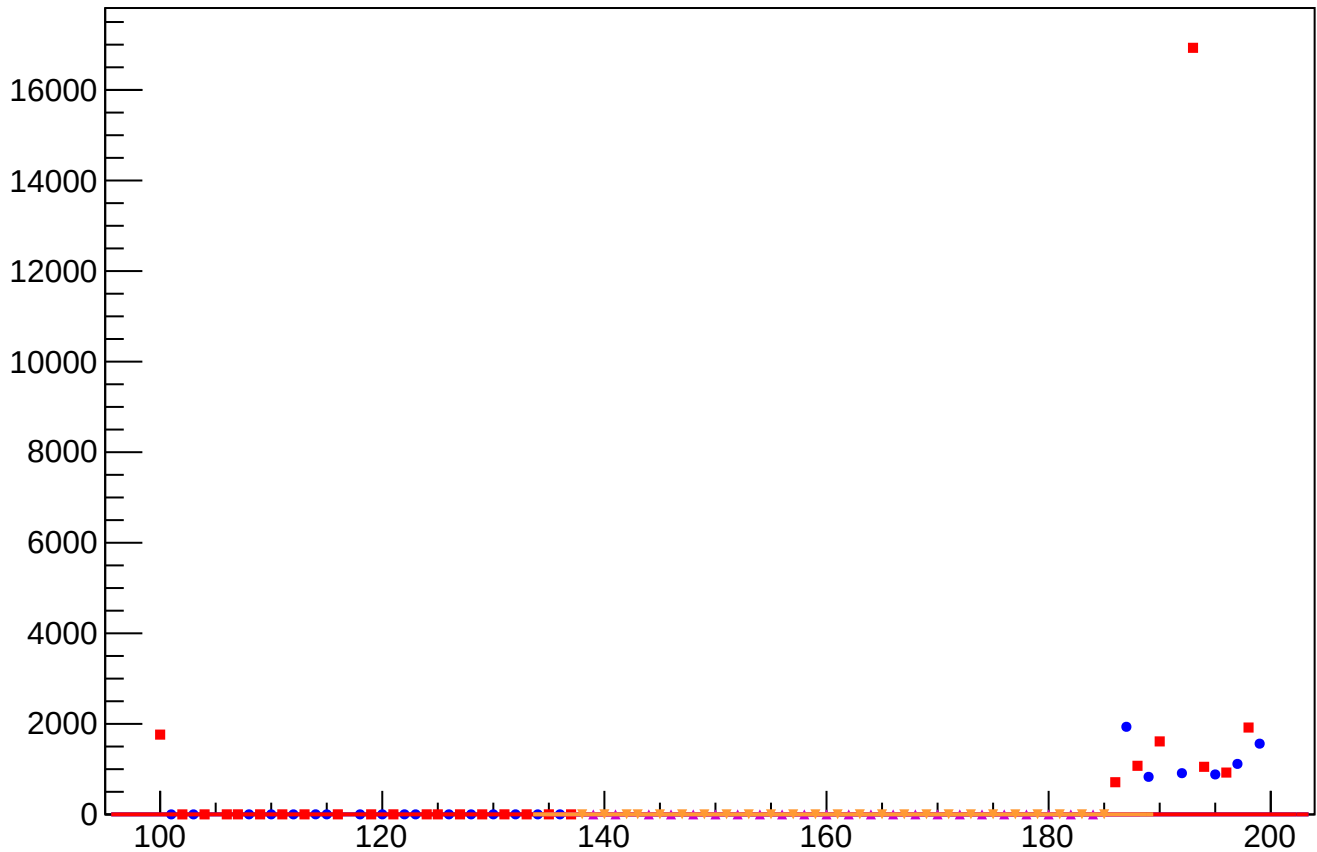
Right: -0.680 ± 0.587 $\chi^2/\text{NDF}: 41.4/48$

In: -0.051 ± 0.471 $\chi^2/\text{NDF}: 37.4/45$

Out: 0.139 ± 0.475 $\chi^2/\text{NDF}: 55.9/50$

All: 0.043 ± 0.334 $\chi^2/\text{NDF}: 93.4/96$

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.866 $\pm$ 0.001 χ^2 /NDF: 3475716.2/22

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

Right Out: 2.065 $\pm$ 0.001 χ^2 /NDF: 4245619.6/25

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

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

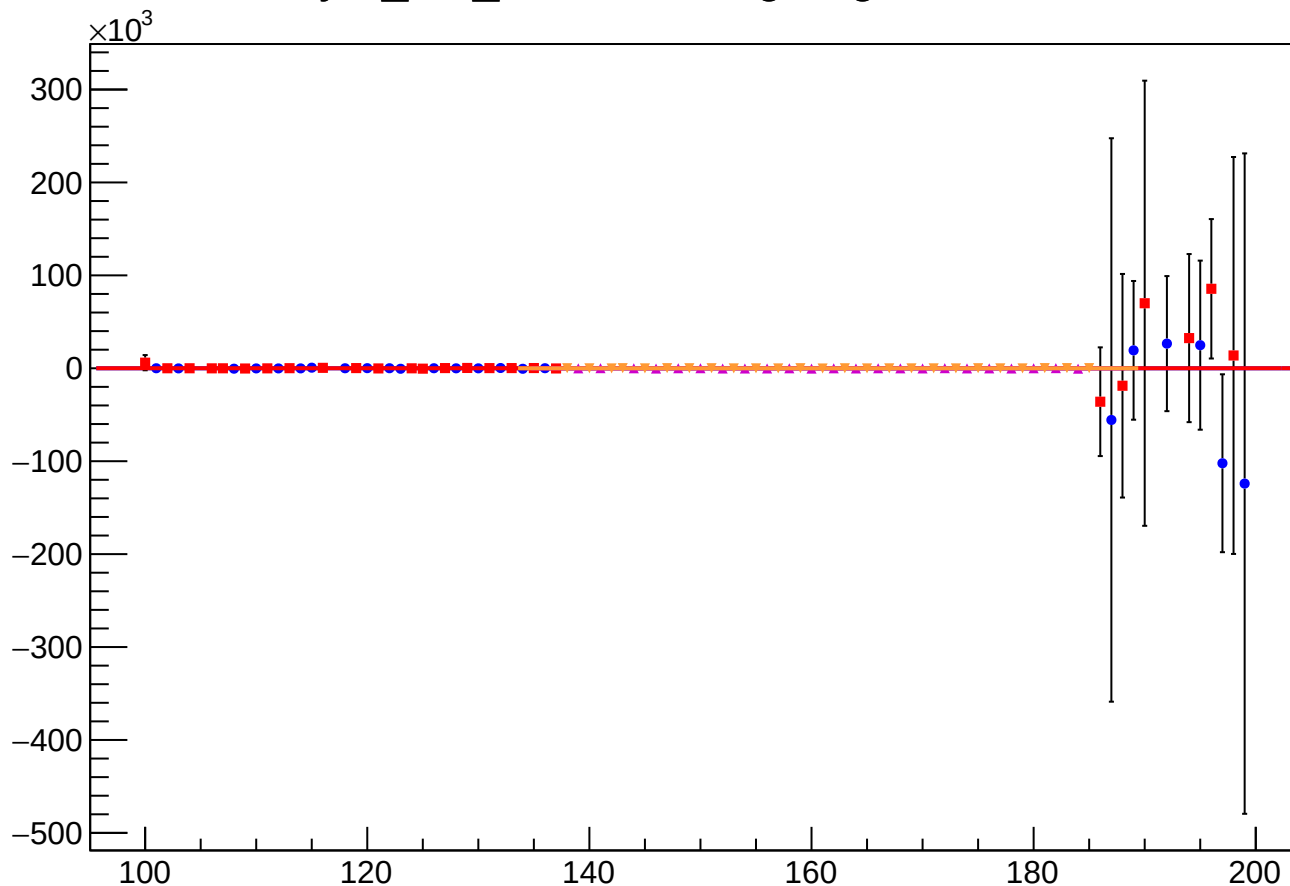
Right: 1.960 $\pm$ 0.000 χ^2 /NDF: 7778338.5/48

In: 2.082 $\pm$ 0.000 χ^2 /NDF:4201848.4/45

Out: 2.201 $\pm$ 0.000 χ^2 /NDF:4694351.9/50

All: 2.141 $\pm$ 0.000 χ^2 /NDF: 8958665.7/96

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.062 ± 46.854 $\chi^2/\text{NDF}: 16.1/22$

Left Out: -13.383 ± 32.072 $\chi^2/\text{NDF}: 11.8/24$

Right Out: 54.306 ± 47.789 $\chi^2/\text{NDF}: 18.0/24$

Left In: -65.231 ± 32.953 $\chi^2/\text{NDF}: 19.4/22$

Left: -38.605 ± 22.983 $\chi^2/\text{NDF}: 32.4/47$

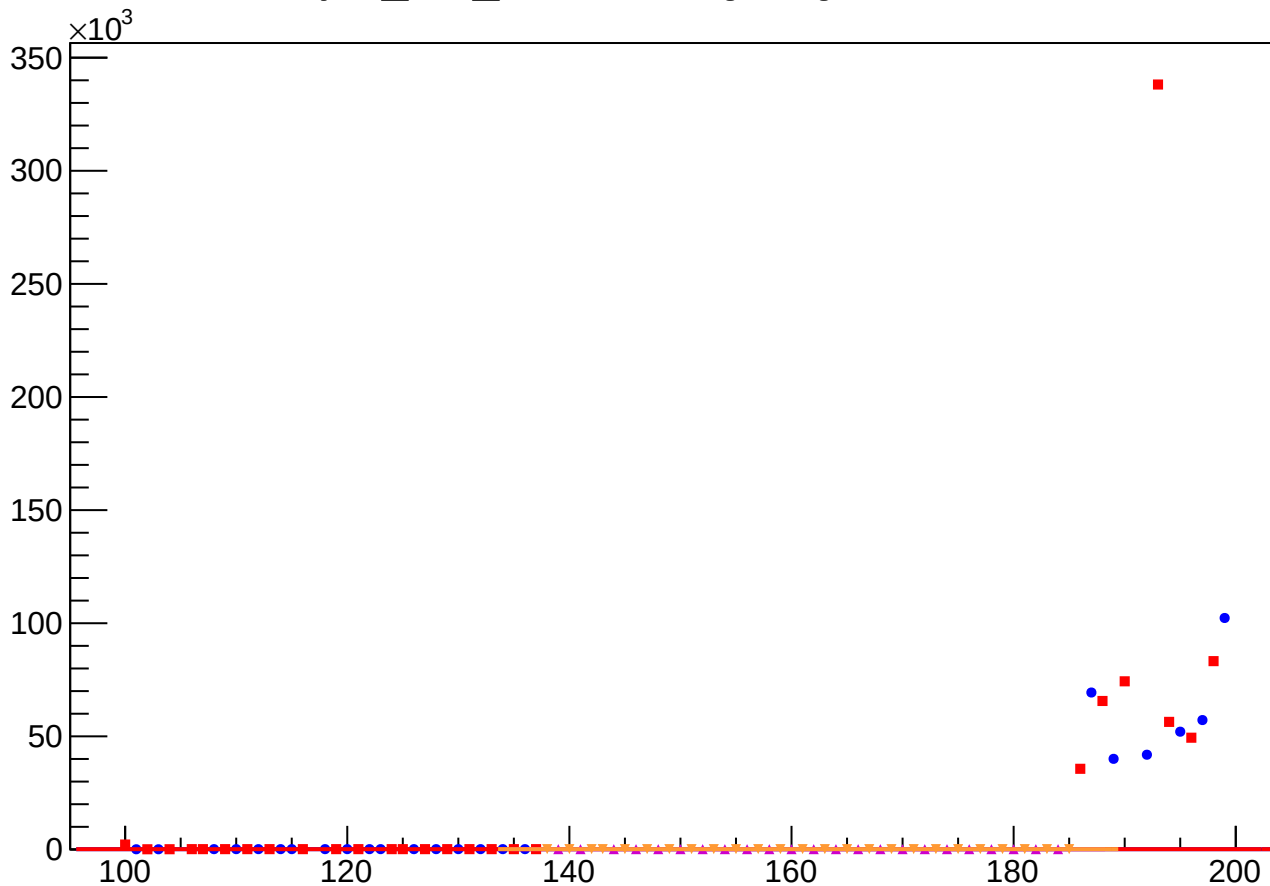
Right: 13.838 ± 33.456 $\chi^2/\text{NDF}: 35.5/47$

In: -51.937 ± 26.954 $\chi^2/\text{NDF}: 35.9/45$

Out: 7.636 ± 26.631 $\chi^2/\text{NDF}: 31.2/49$

All: -21.791 ± 18.944 $\chi^2/\text{NDF}: 69.5/95$

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: 124.797 $\pm$ 0.034 χ^2 /NDF: 4486522.9/25

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

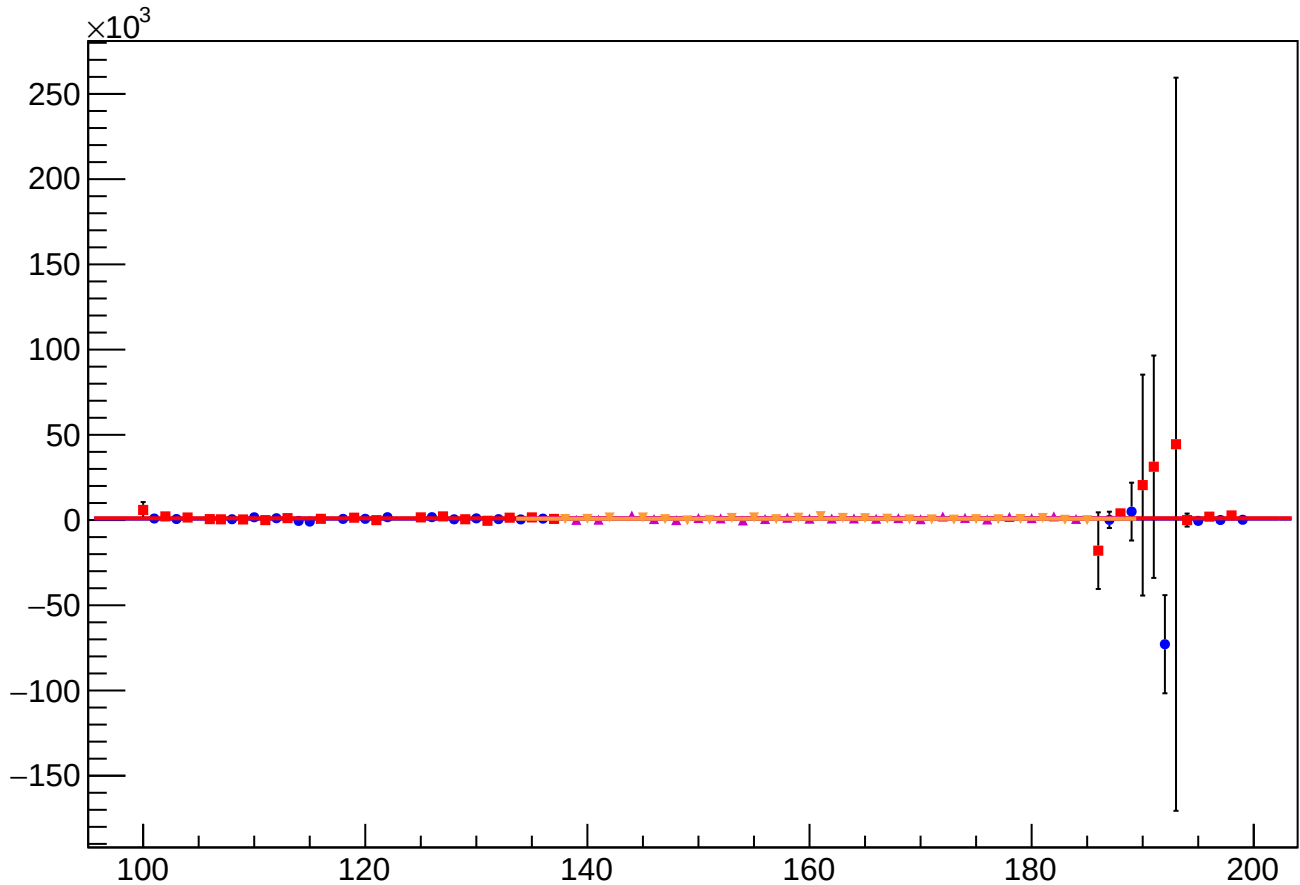
Right: 121.262 $\pm$ 0.024 χ^2 /NDF: 8479389.6/48

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

Out: 133.828 $\pm$ 0.019 χ^2 /NDF: 4590555.3/50

All: 132.545 $\pm$ 0.013 χ^2 /NDF: 8815101.8/96

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: 1032.331 $\pm$ 210.494 χ^2/NDF : 17.0/25

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

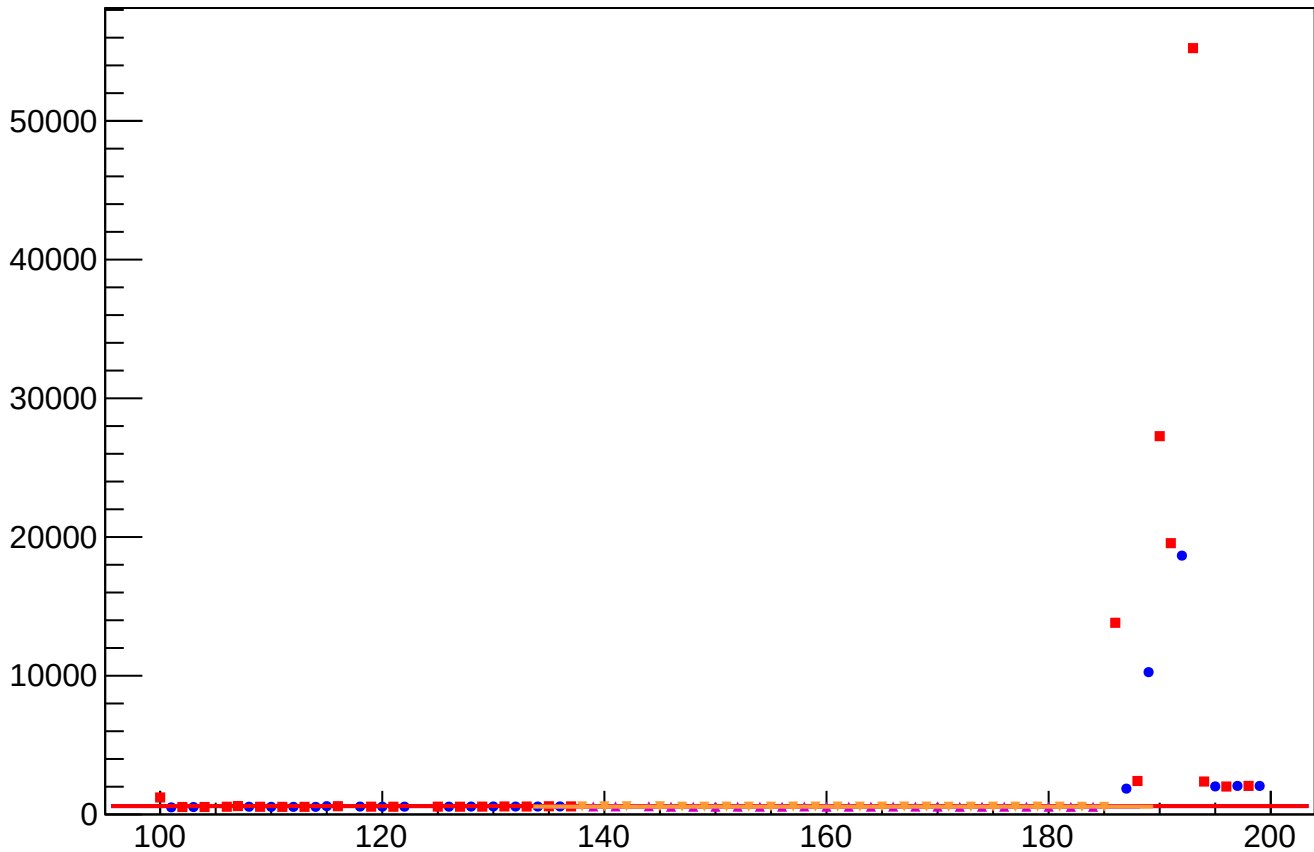
Right: 926.170 $\pm$ 149.896 χ^2/NDF : 29.9/47

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

Out: 855.920 $\pm$ 113.071 χ^2/NDF : 37.2/49

All: 892.371 $\pm$ 80.302 χ^2/NDF : 77.6/94

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: 605.138+/-0.149 χ^2/NDF : 4303794.3/25

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

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

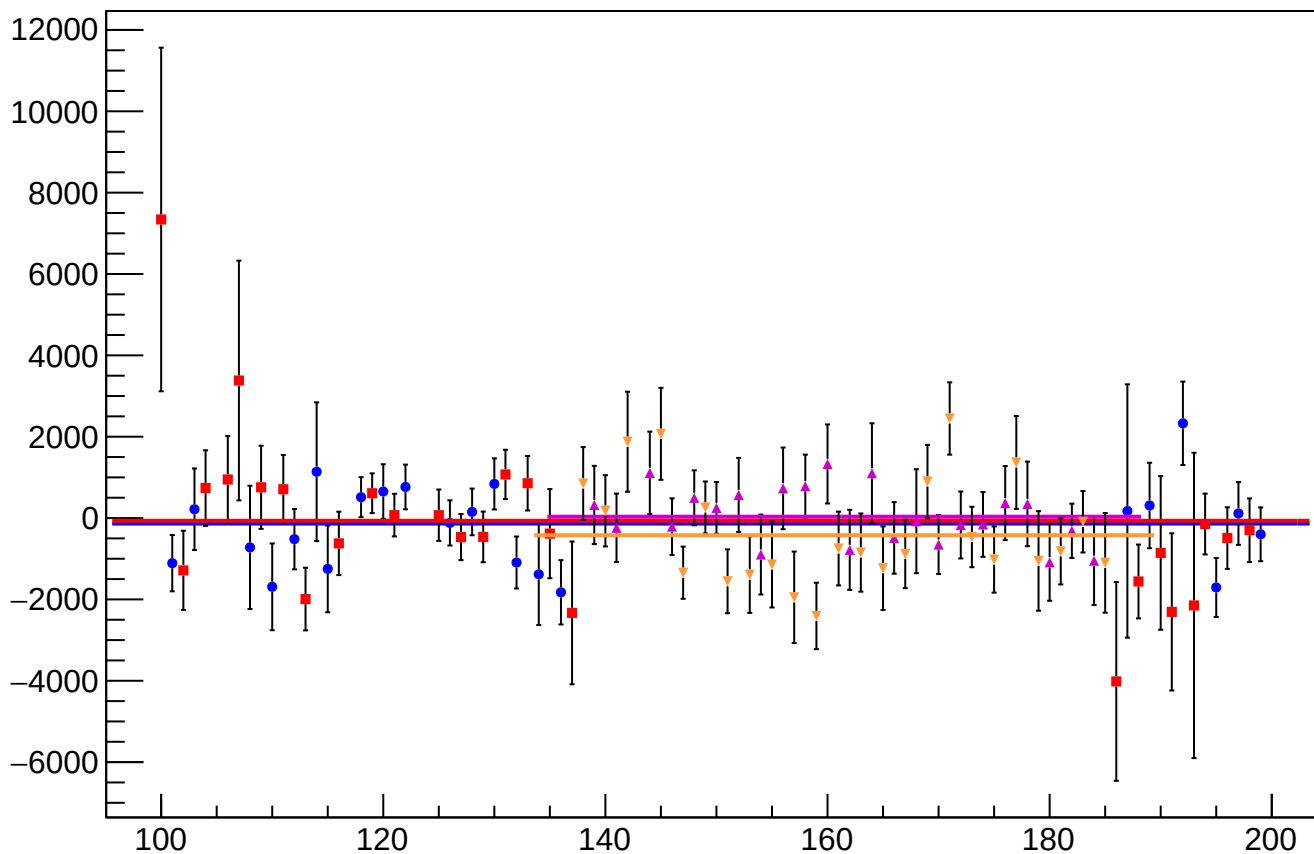
Right: 603.495+/-0.106 χ^2/NDF : 8429991.6/47

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

Out: 575.972+/-0.080 χ^2/NDF : 4367358.7/49

All: 575.522+/-0.057 χ^2/NDF : 8546488.2/94

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: -68.677+/-161.673 χ^2/NDF : 33.6/25

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

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

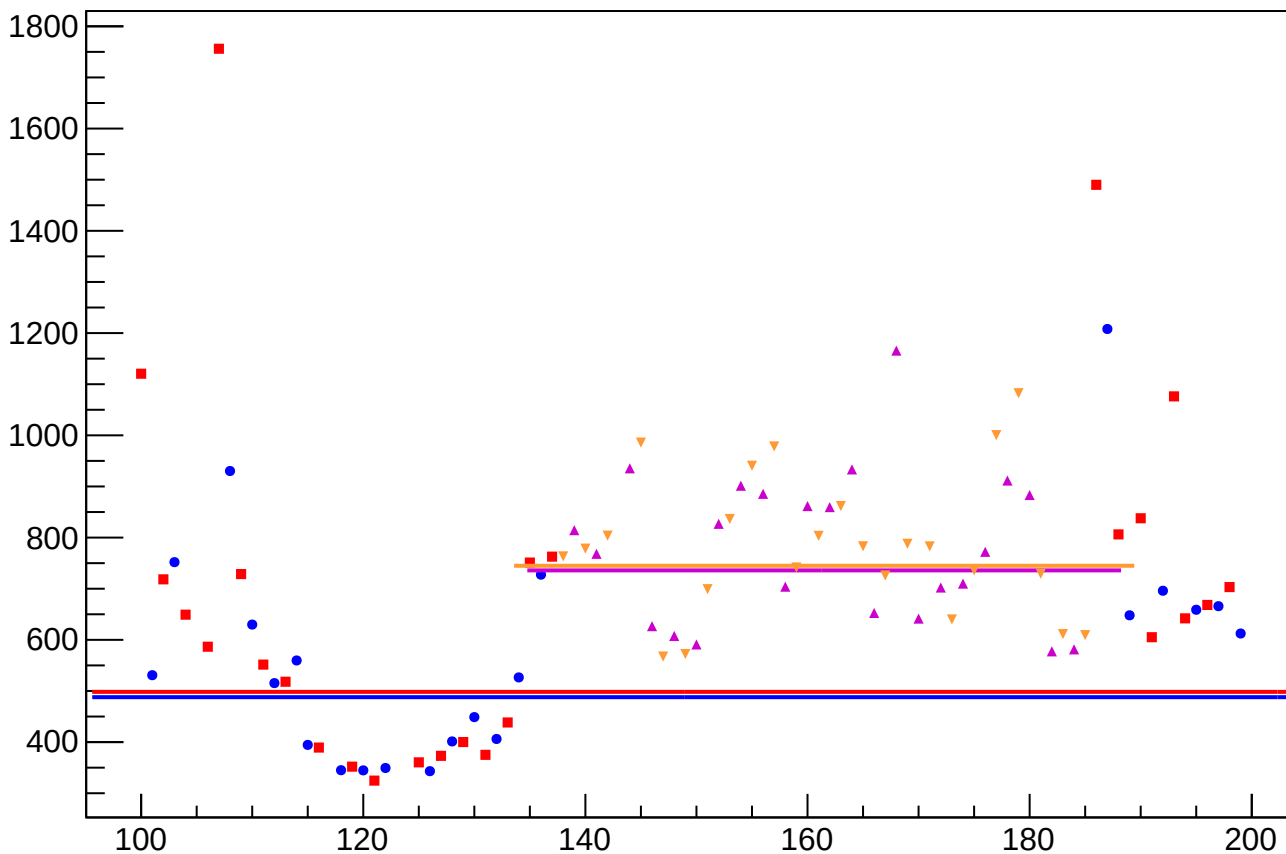
Right: -101.845+/-114.193 χ^2/NDF : 67.2/47

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

Out: -226.154+/-120.461 χ^2/NDF : 78.9/49

All: -142.780+/-85.001 χ^2/NDF : 126.0/94

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: 498.265+/-0.114 χ^2/NDF : 2608052.1/25

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

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

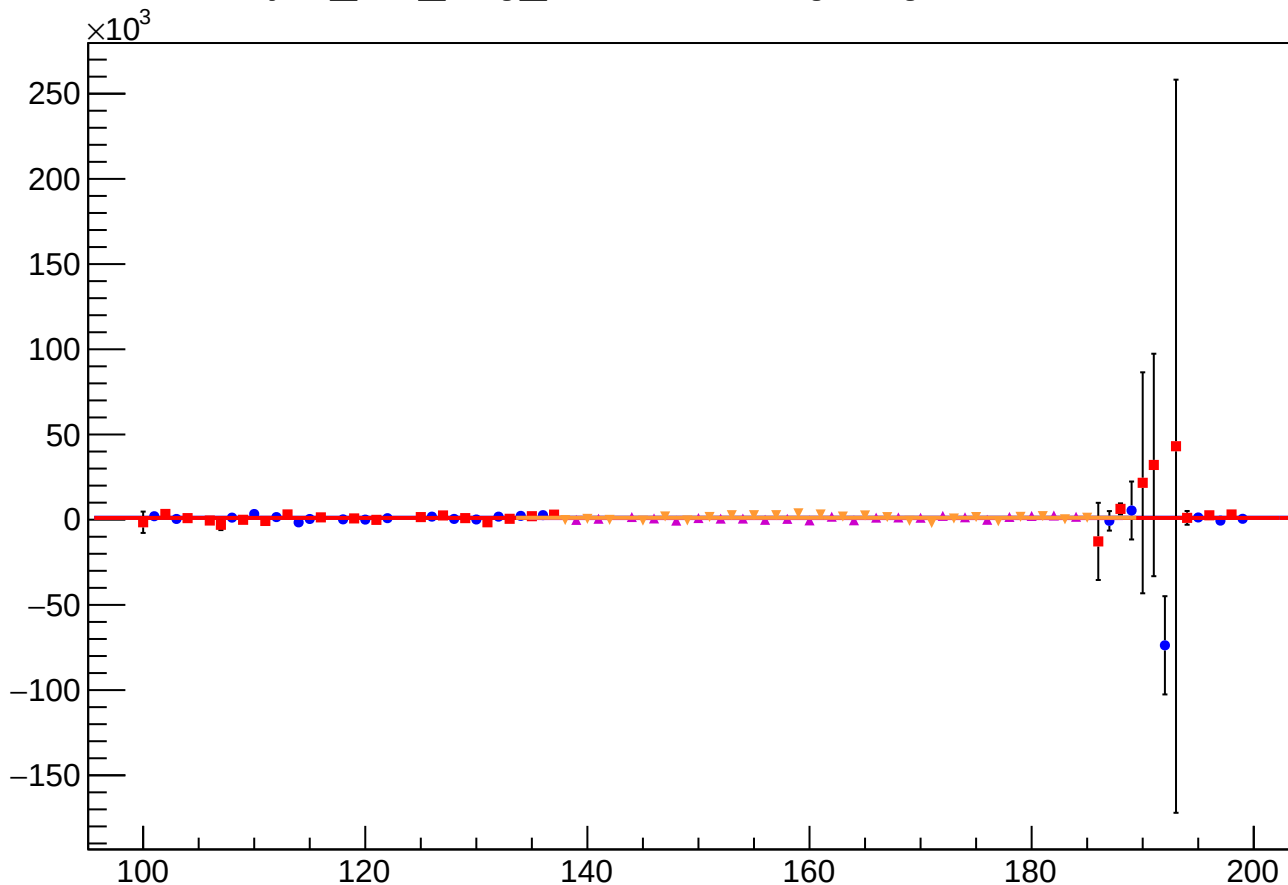
Right: 493.060+/-0.081 χ^2/NDF : 4304575.5/47

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

Out: 607.983+/-0.085 χ^2/NDF :5687531.8/49

All: 603.331+/-0.060 χ^2/NDF : 10603692.3/94

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: 1039.284 $\pm$ 287.998 χ^2 /NDF: 27.8/25

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

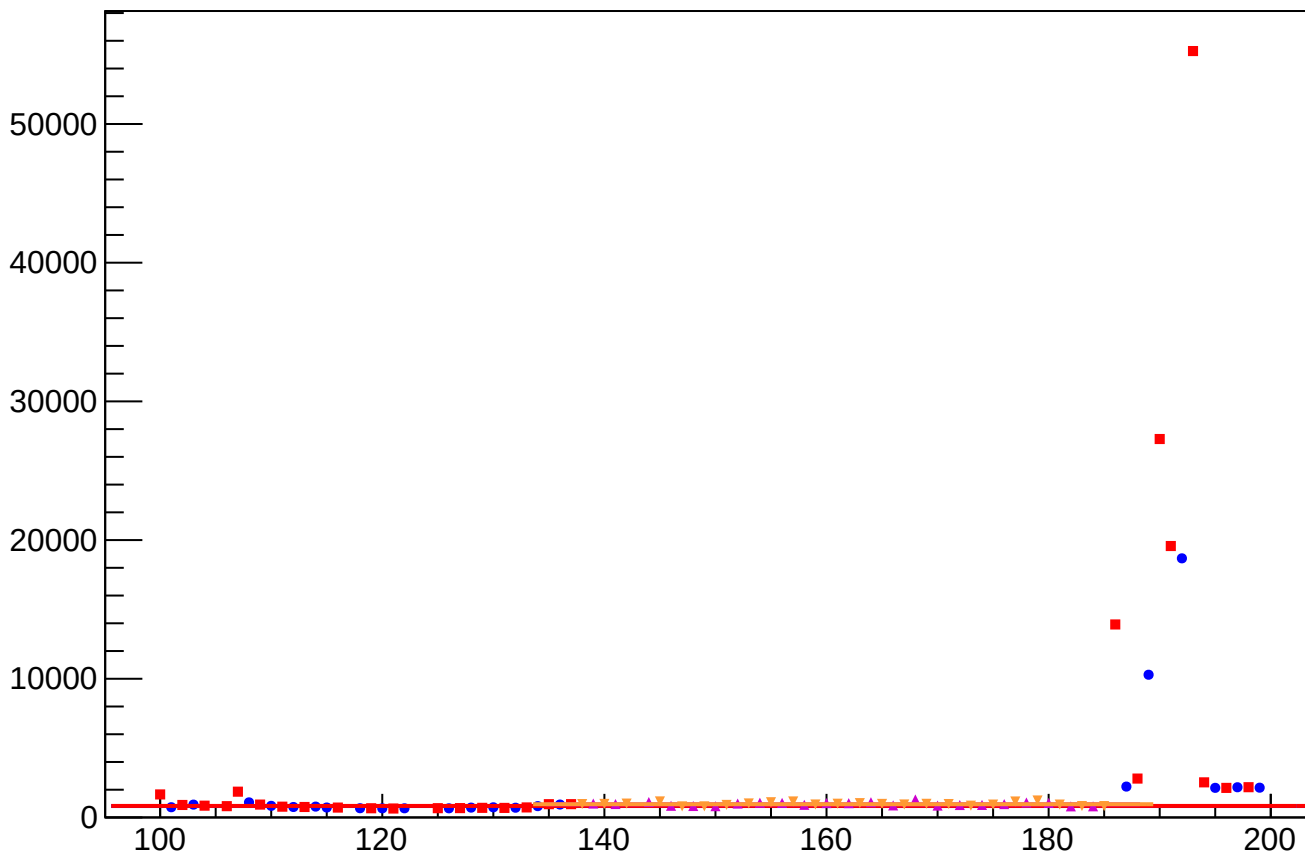
Right: 1096.076 $\pm$ 204.008 χ^2 /NDF: 47.1/47

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

Out: 1099.757 $\pm$ 179.163 χ^2 /NDF:66.7/49

All: 1061.379 $\pm$ 126.688 χ^2 /NDF: 101.1/94

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: 830.601+/-0.204 χ^2/NDF : 4244756.1/25

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

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

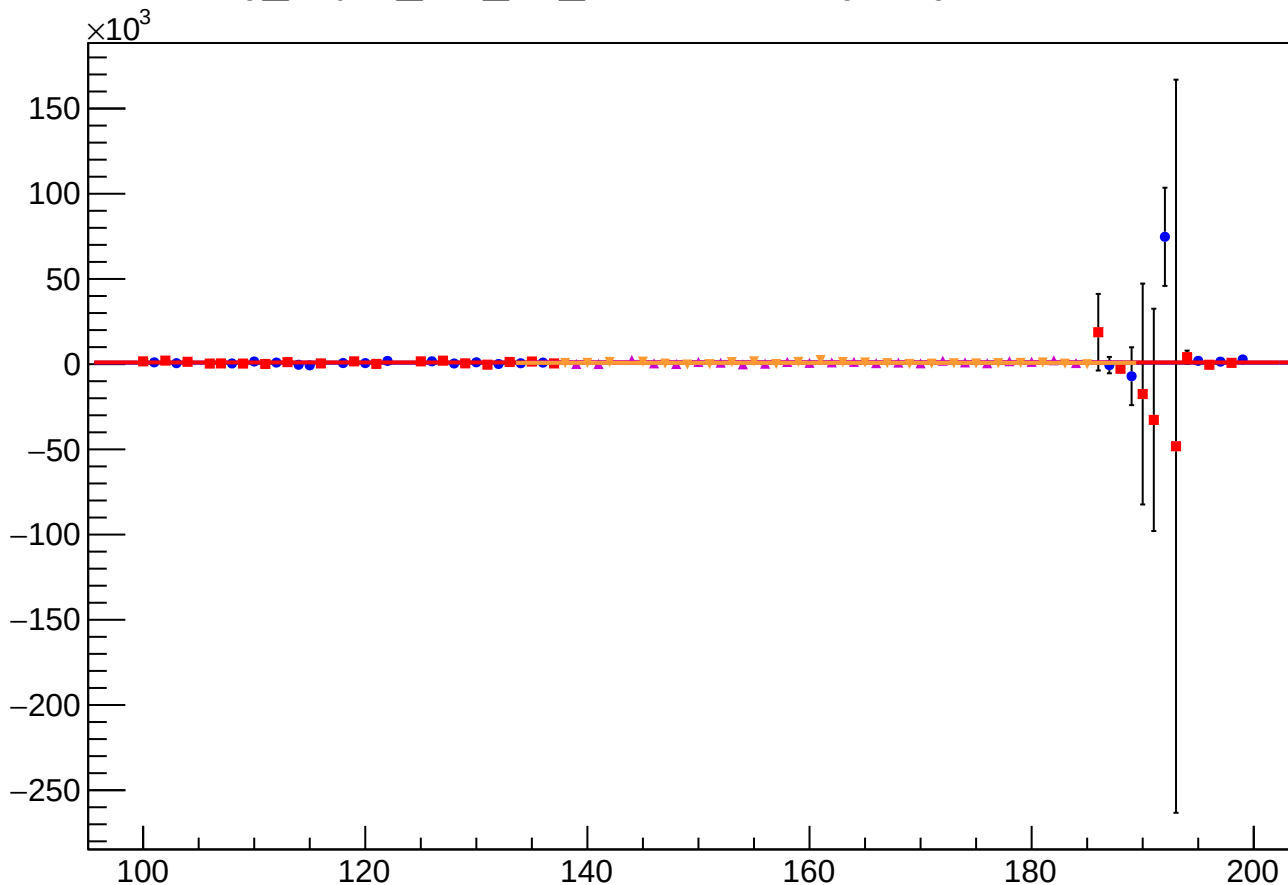
Right: 827.319+/-0.144 χ^2/NDF : 7987846.7/47

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

Out: 906.448+/-0.127 χ^2/NDF : 4931198.1/49

All: 902.963+/-0.090 χ^2/NDF : 9398085.9/94

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 878.554 $\pm$ 213.356 χ^2/NDF : 14.0/21

Left Out: 757.642 $\pm$ 133.942 χ^2/NDF : 21.0/23

Right Out: 1000.150 $\pm$ 205.658 χ^2/NDF : 16.1/25

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

Left: 857.420 $\pm$ 95.022 χ^2/NDF : 49.0/46

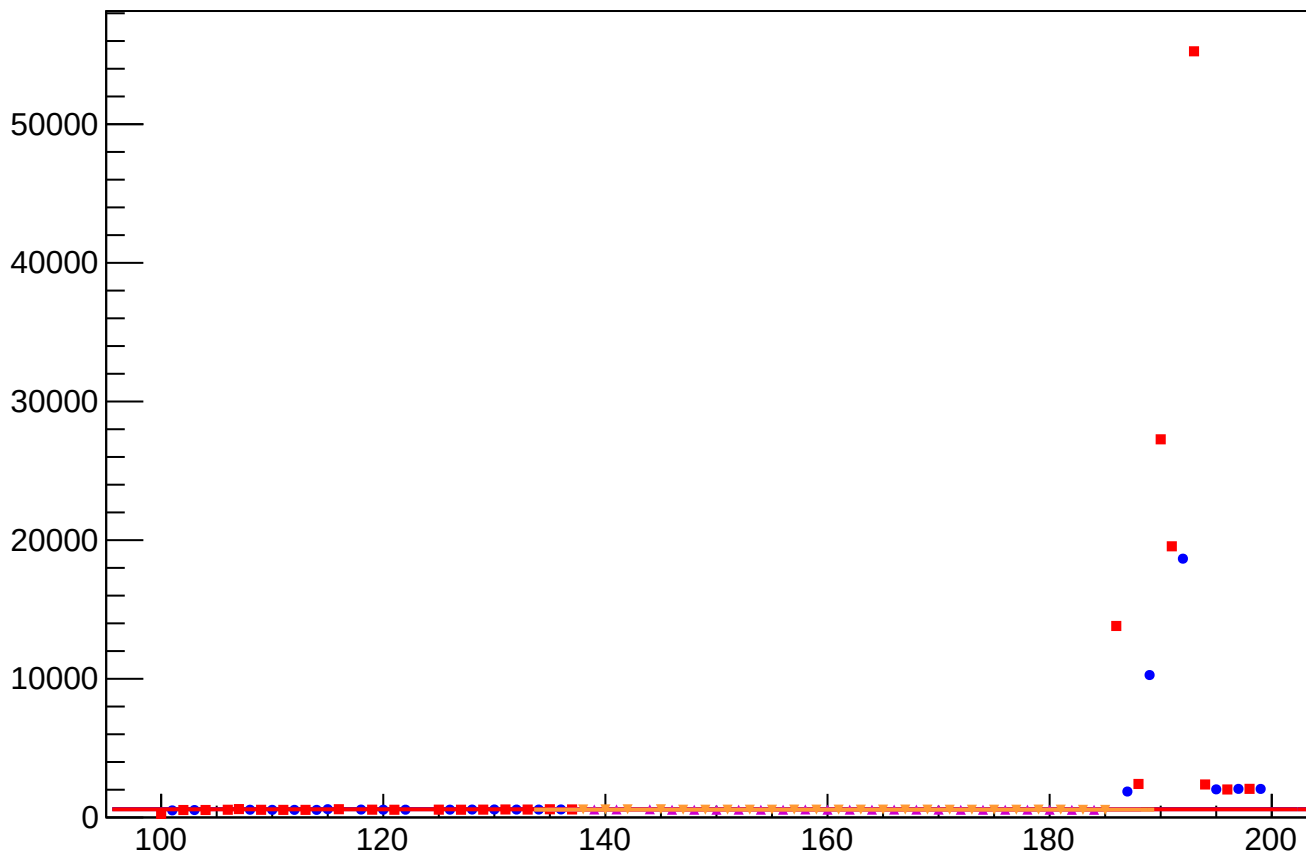
Right: 941.585 $\pm$ 148.069 χ^2/NDF : 30.3/47

In: 935.698 $\pm$ 113.975 χ^2/NDF : 41.0/44

Out: 829.870 $\pm$ 112.237 χ^2/NDF : 38.1/49

All: 881.971 $\pm$ 79.971 χ^2/NDF : 79.5/94

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 601.277+/-0.151 χ^2/NDF : 4131729.7/21

Left Out: 563.675+/-0.095 χ^2/NDF : 9542.9/23

Right Out: 587.264+/-0.145 χ^2/NDF : 4526155.0/25

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

Left: 563.803+/-0.067 χ^2/NDF : 18751.3/46

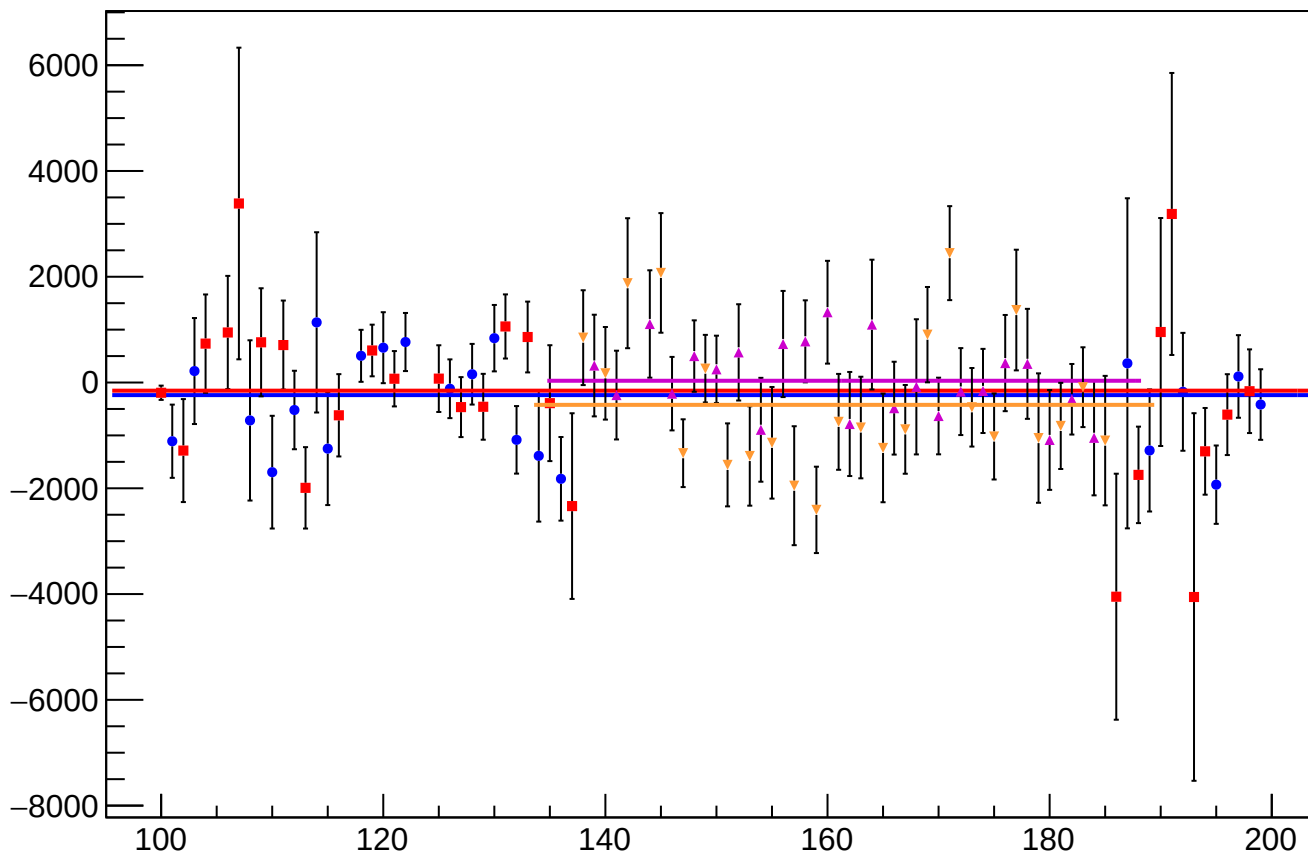
Right: 594.013+/-0.105 χ^2/NDF : 8662356.9/47

In: 574.591+/-0.081 χ^2/NDF : 4184719.1/44

Out: 570.700+/-0.079 χ^2/NDF : 4554174.1/49

All: 572.616+/-0.057 χ^2/NDF : 8740076.1/94

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -238.158 ± 162.238 χ^2/NDF : 29.3/21

Left Out: -422.324 ± 180.531 χ^2/NDF : 43.3/23

Right Out: -154.011 ± 103.924 χ^2/NDF : 35.2/25

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

Left: -193.010 ± 127.237 χ^2/NDF : 58.6/46

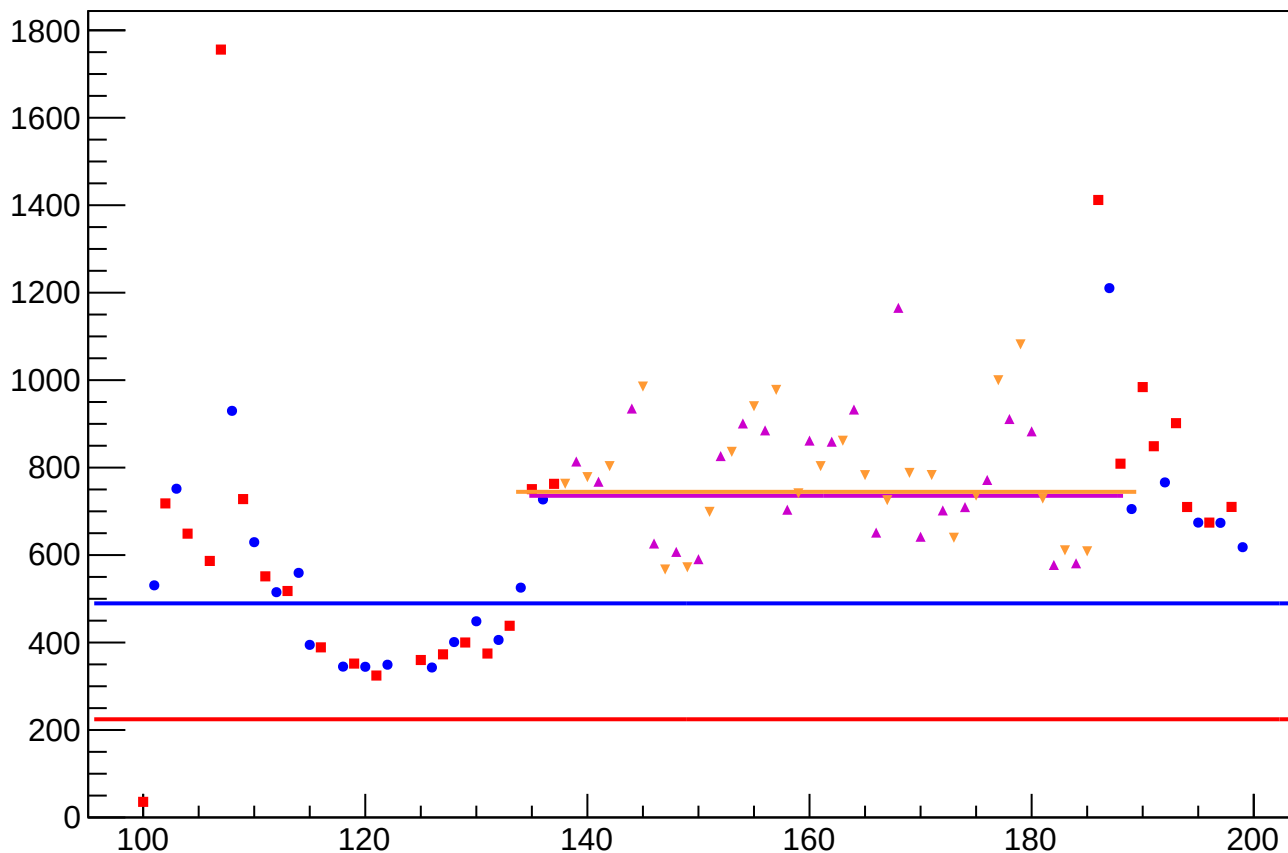
Right: -178.493 ± 87.510 χ^2/NDF : 64.7/47

In: -115.986 ± 120.317 χ^2/NDF : 42.7/44

Out: -220.794 ± 90.067 χ^2/NDF : 80.1/49

All: -183.155 ± 72.103 χ^2/NDF : 123.3/94

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: 224.512 $\pm$ 0.073 χ^2 /NDF: 12279935.2/25

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

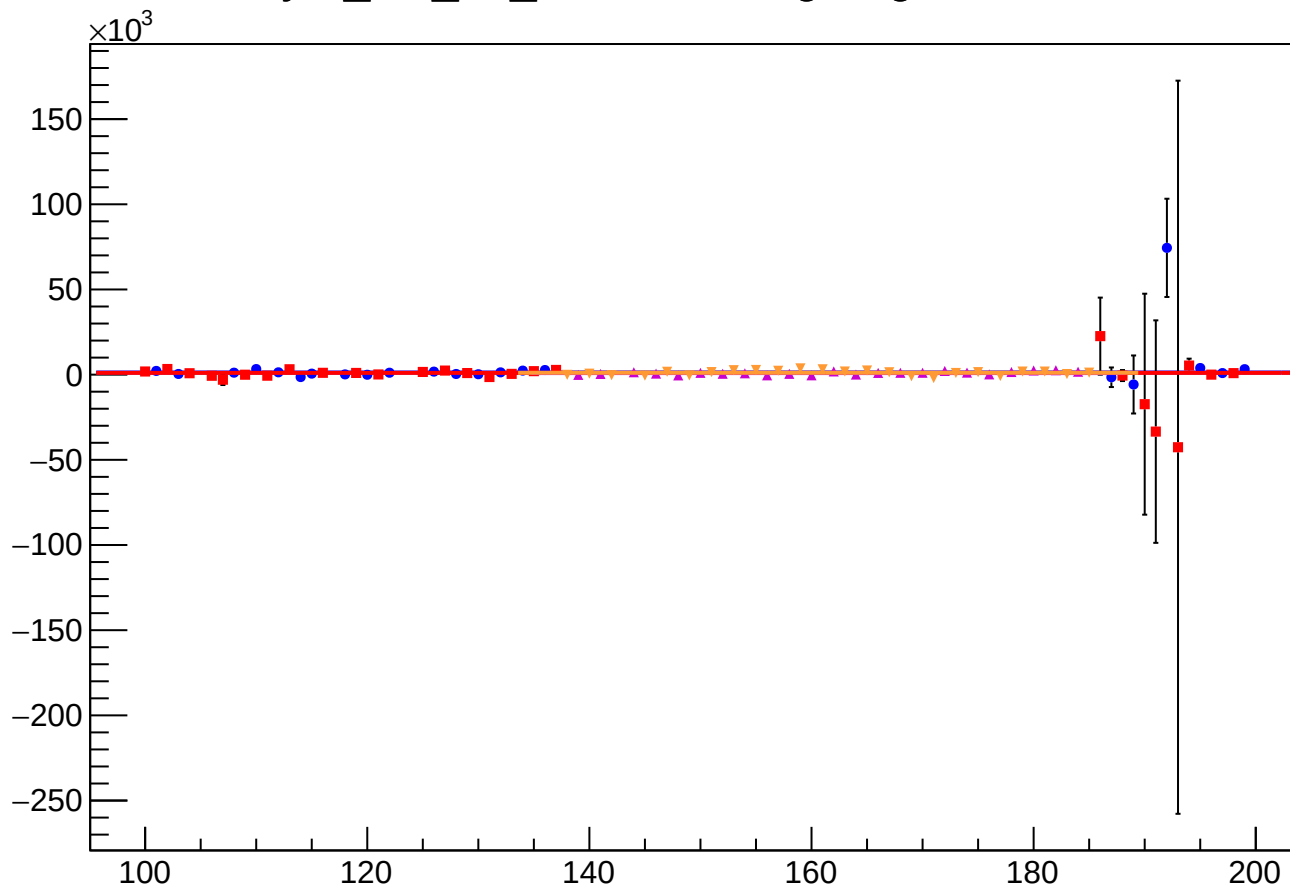
Right: 301.620 $\pm$ 0.062 χ^2 /NDF: 17851517.1/47

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

Out: 353.961 $\pm$ 0.064 χ^2 /NDF: 25756809.7/49

All: 442.408 $\pm$ 0.051 χ^2 /NDF: 36089214.2/94

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: 1042.678 $\pm$ 276.195 χ^2/NDF : 25.3/25

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

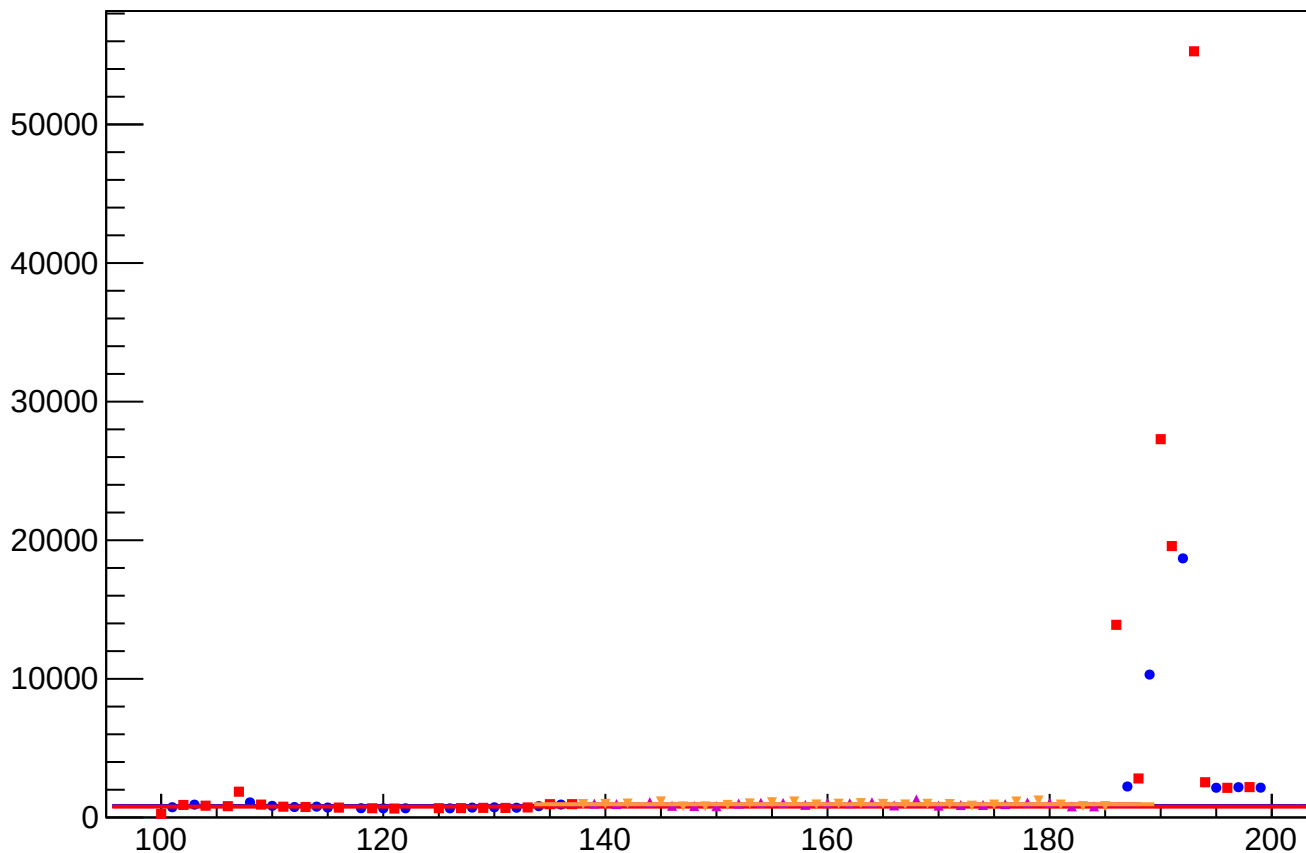
Right: 1144.026 $\pm$ 199.632 χ^2/NDF : 46.1/47

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

Out: 1079.736 $\pm$ 176.150 χ^2/NDF : 63.6/49

All: 1066.365 $\pm$ 125.575 χ^2/NDF : 100.0/94

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: 781.776+/-0.195 χ^2/NDF : 4858150.4/25

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

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

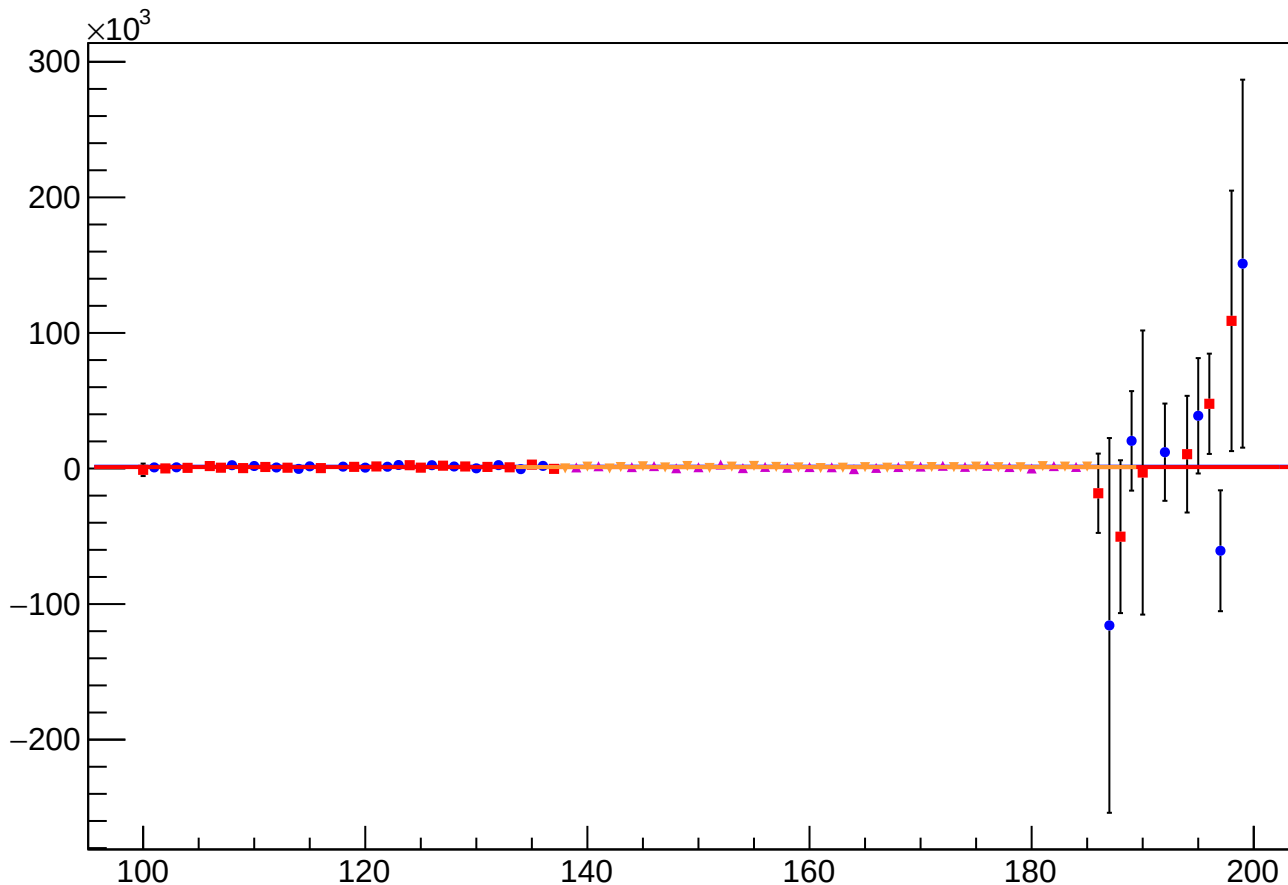
Right: 801.635+/-0.141 χ^2/NDF : 8631458.9/47

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

Out: 883.817+/-0.125 χ^2/NDF : 5778528.8/49

All: 891.235+/-0.089 χ^2/NDF : 10260952.3/94

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1324.722 $\pm$ 218.586 χ^2 /NDF: 17.8/22

Left Out: 1073.626 $\pm$ 129.690 χ^2 /NDF:15.1/24

Right Out: 1041.036 $\pm$ 212.065 χ^2 /NDF: 17.7/24

Left In: 1123.857 $\pm$ 133.163 χ^2 /NDF:30.0/22

Left: 1098.077 $\pm$ 92.908 χ^2 /NDF: 45.2/47

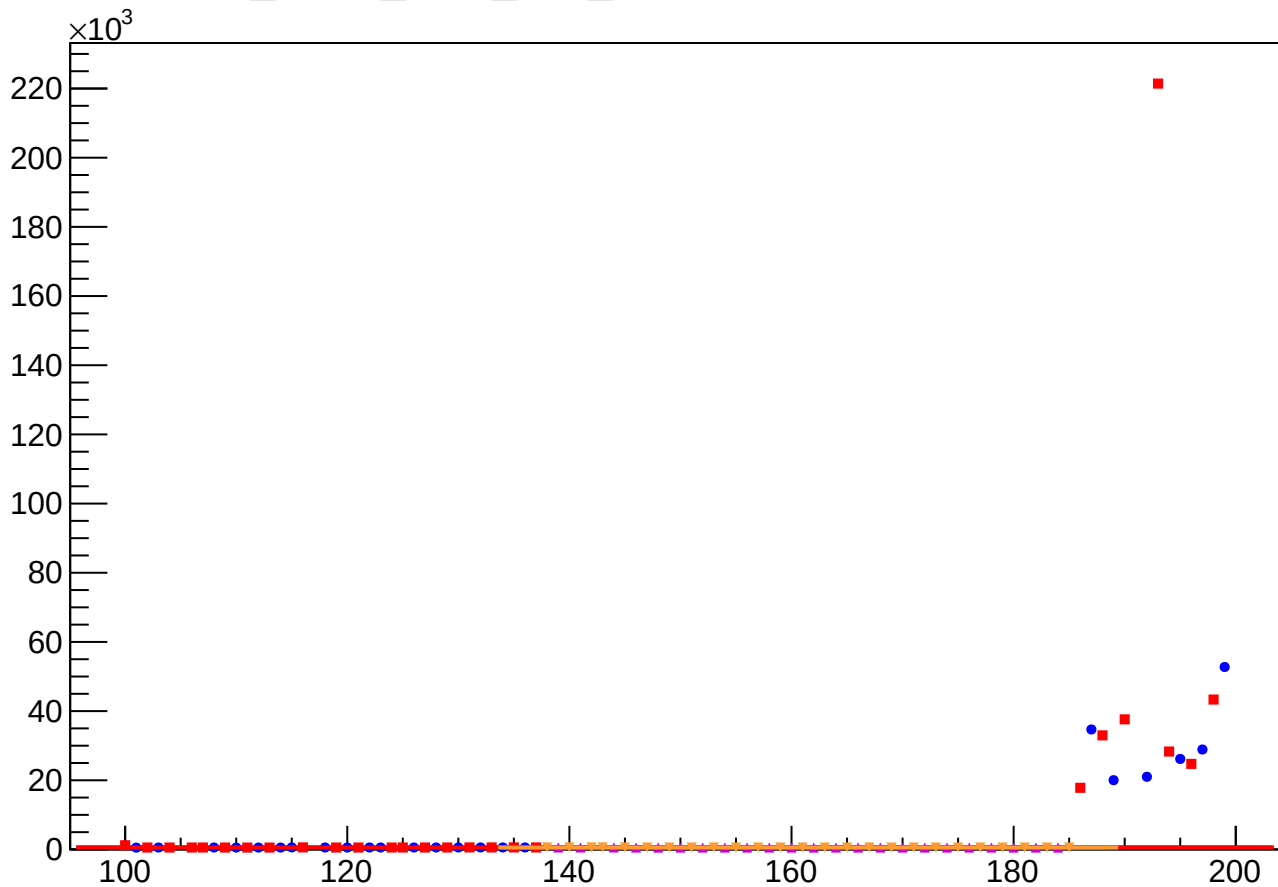
Right: 1178.585 $\pm$ 152.206 χ^2 /NDF: 36.3/47

In: 1178.226 $\pm$ 113.722 χ^2 /NDF:48.4/45

Out: 1064.755 $\pm$ 110.640 χ^2 /NDF:32.8/49

All: 1119.932 $\pm$ 79.302 χ^2 /NDF: 81.8/95

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: 568.579 $\pm$ 0.150 χ^2 /NDF: 3923369.2/25

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

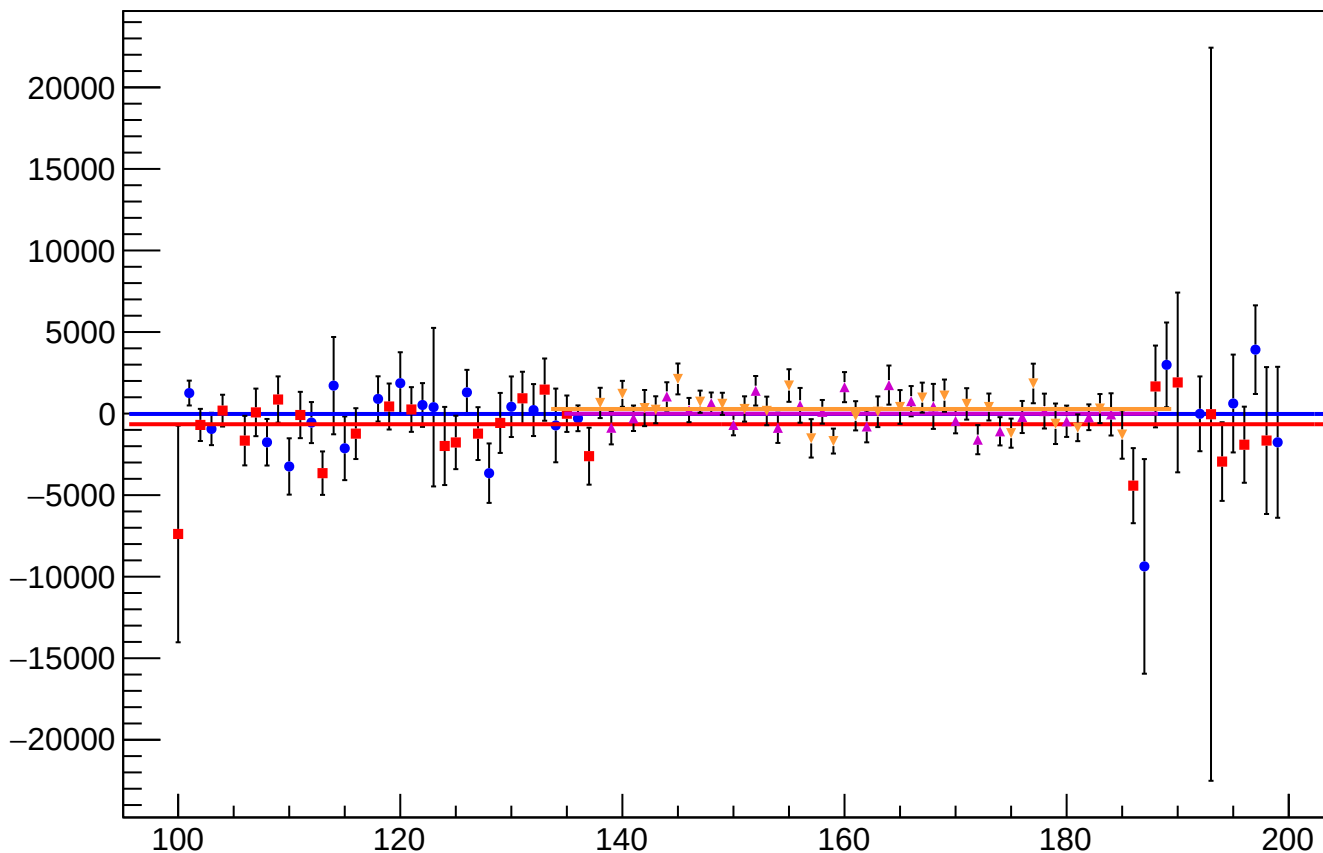
Right: 567.614 $\pm$ 0.108 χ^2 /NDF: 7163524.2/48

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

Out: 560.541 $\pm$ 0.078 χ^2 /NDF:3942070.3/50

All: 560.070 $\pm$ 0.056 χ^2 /NDF: 7196248.9/96

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -23.383 $\pm$ 317.265 χ^2/NDF : 22.8/22

Left Out: 281.875 $\pm$ 180.423 χ^2/NDF : 26.7/24

Right Out: -652.836 $\pm$ 319.328 χ^2/NDF : 19.6/25

Left In: -8.211 $\pm$ 183.382 χ^2/NDF : 20.2/22

Left: 139.190 $\pm$ 128.612 χ^2/NDF : 48.2/47

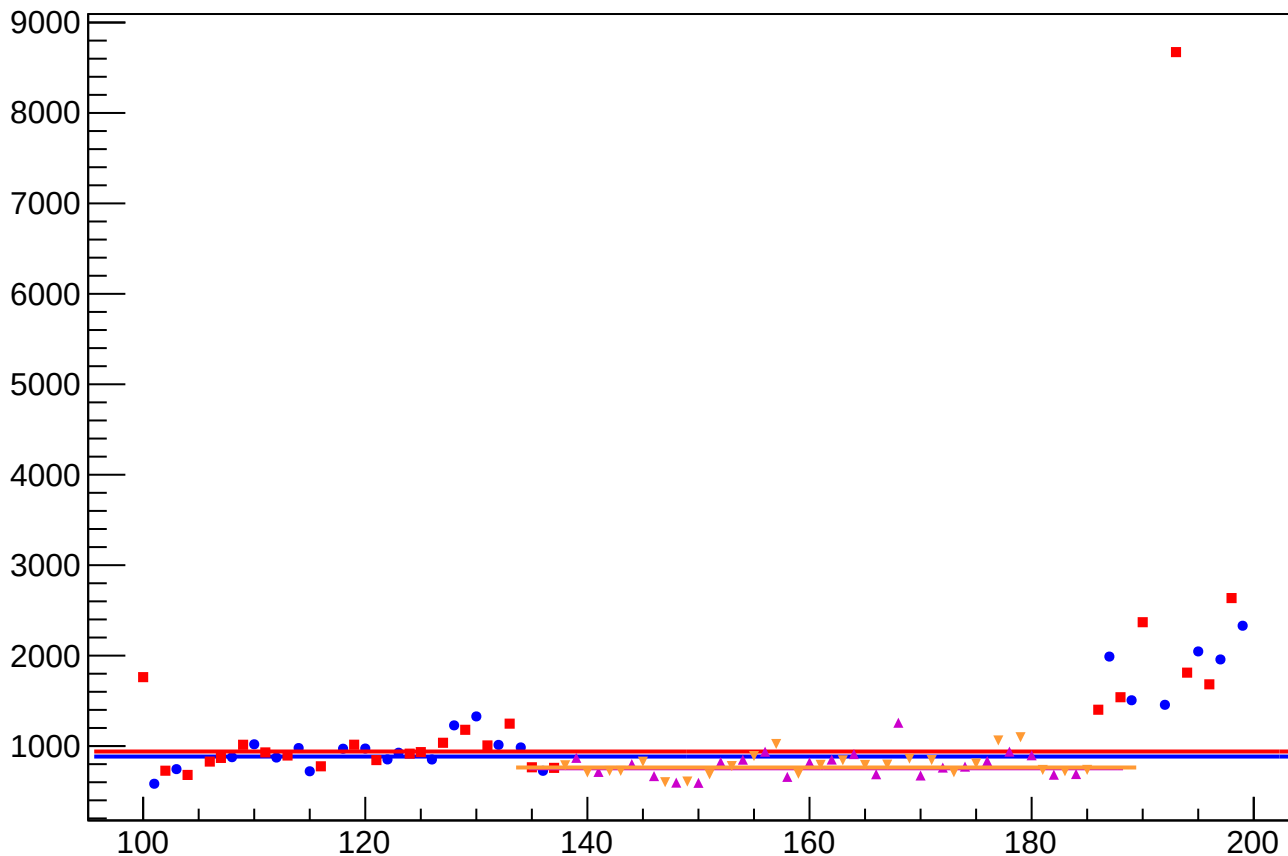
Right: -336.069 $\pm$ 225.066 χ^2/NDF : 44.4/48

In: -12.011 $\pm$ 158.768 χ^2/NDF : 42.9/45

Out: 55.688 $\pm$ 157.084 χ^2/NDF : 52.9/50

All: 22.200 $\pm$ 111.666 χ^2/NDF : 95.9/96

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 883.964 $\pm$ 0.224 χ^2 /NDF: 1780584.5/22

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

Right Out: 939.839 $\pm$ 0.226 χ^2 /NDF: 1809099.8/25

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

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

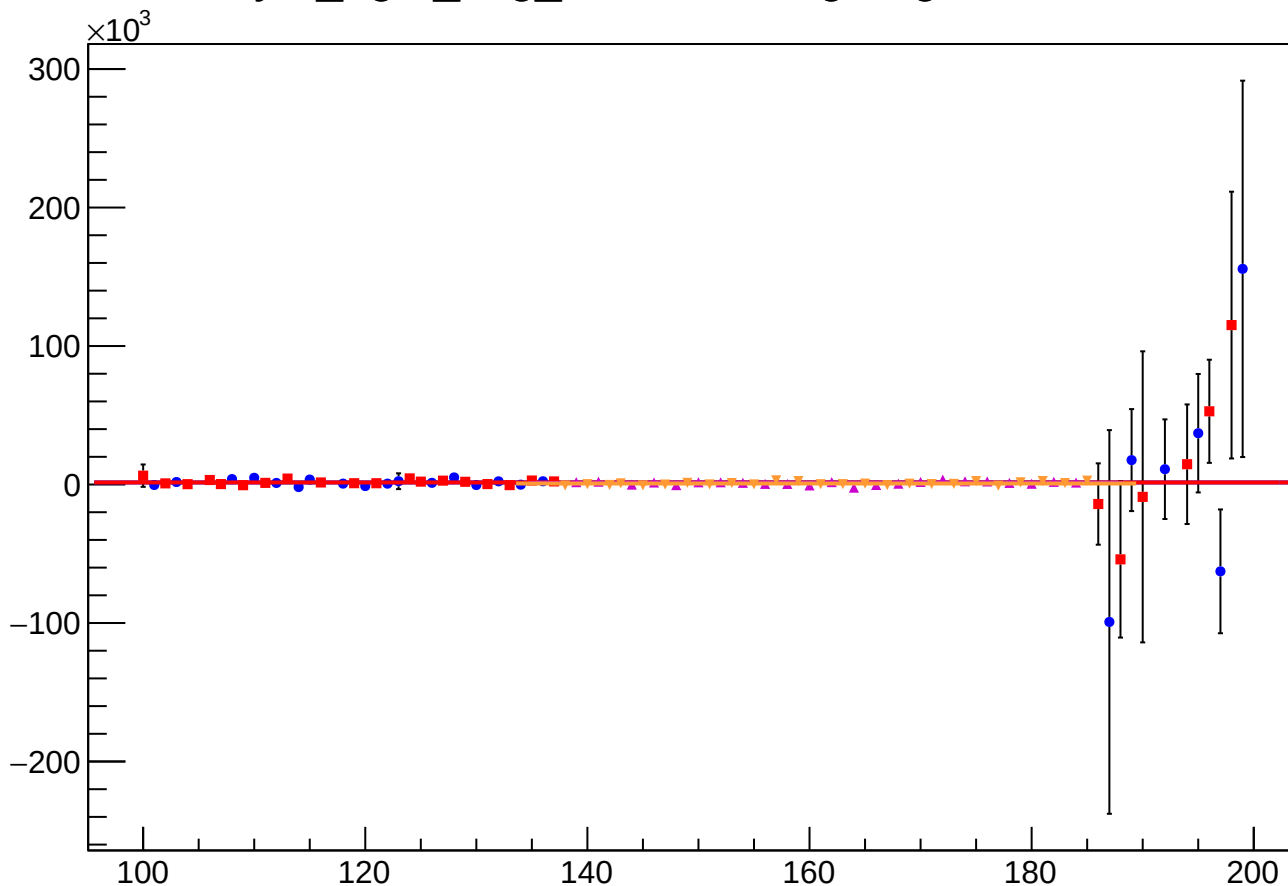
Right: 911.720 $\pm$ 0.159 χ^2 /NDF: 3620499.8/48

In: 786.621 $\pm$ 0.112 χ^2 /NDF: 2963594.6/45

Out: 805.857 $\pm$ 0.111 χ^2 /NDF: 3027287.9/50

All: 796.341 $\pm$ 0.079 χ^2 /NDF: 6005718.5/96

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: 1490.964 $\pm$ 400.624 χ^2 /NDF: 16.7/24

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

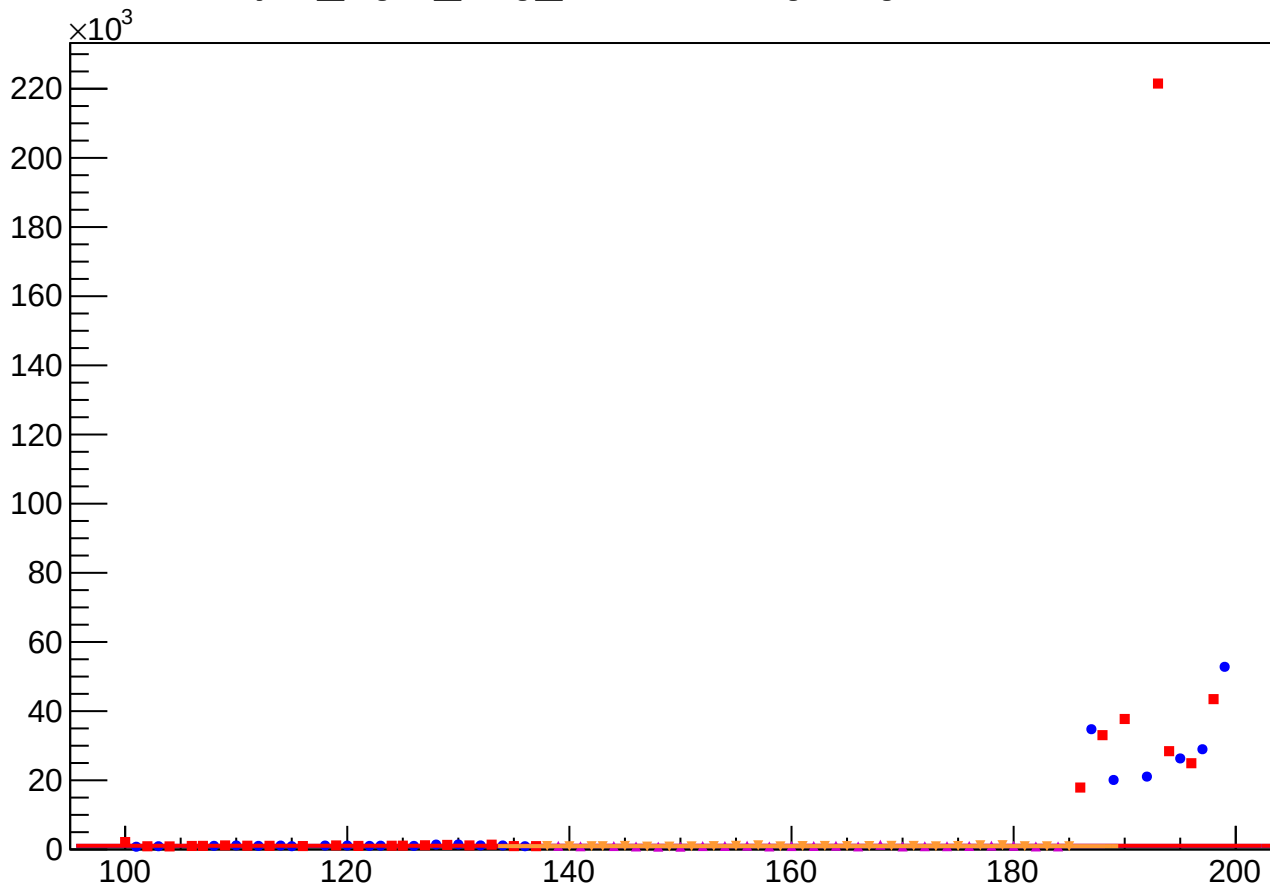
Right: 1495.233 $\pm$ 283.973 χ^2 /NDF: 38.6/47

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

Out: 920.450 $\pm$ 196.532 χ^2 /NDF: 40.9/49

All: 1066.268 $\pm$ 140.092 χ^2 /NDF: 89.9/95

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: 1069.235 $\pm$ 0.283 χ^2 /NDF: 3970749.7/25

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

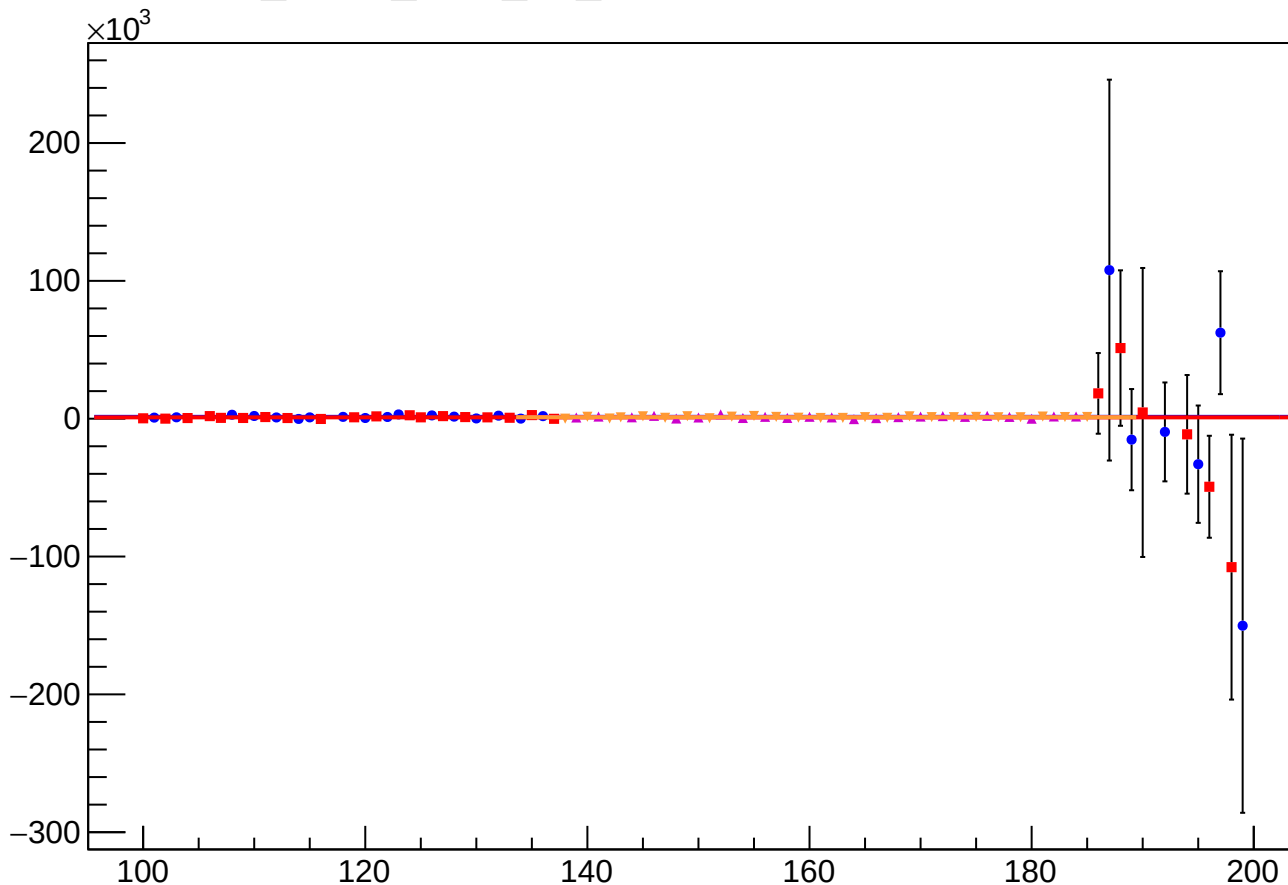
Right: 1050.800 $\pm$ 0.201 χ^2 /NDF: 7428988.6/48

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

Out: 988.001 $\pm$ 0.139 χ^2 /NDF:4441979.7/50

All: 980.982 $\pm$ 0.099 χ^2 /NDF: 8396217.7/96

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.843 $\pm$ 218.841 χ^2 /NDF: 16.7/22

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

Right Out: 964.622 $\pm$ 208.601 χ^2 /NDF: 16.6/24

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

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

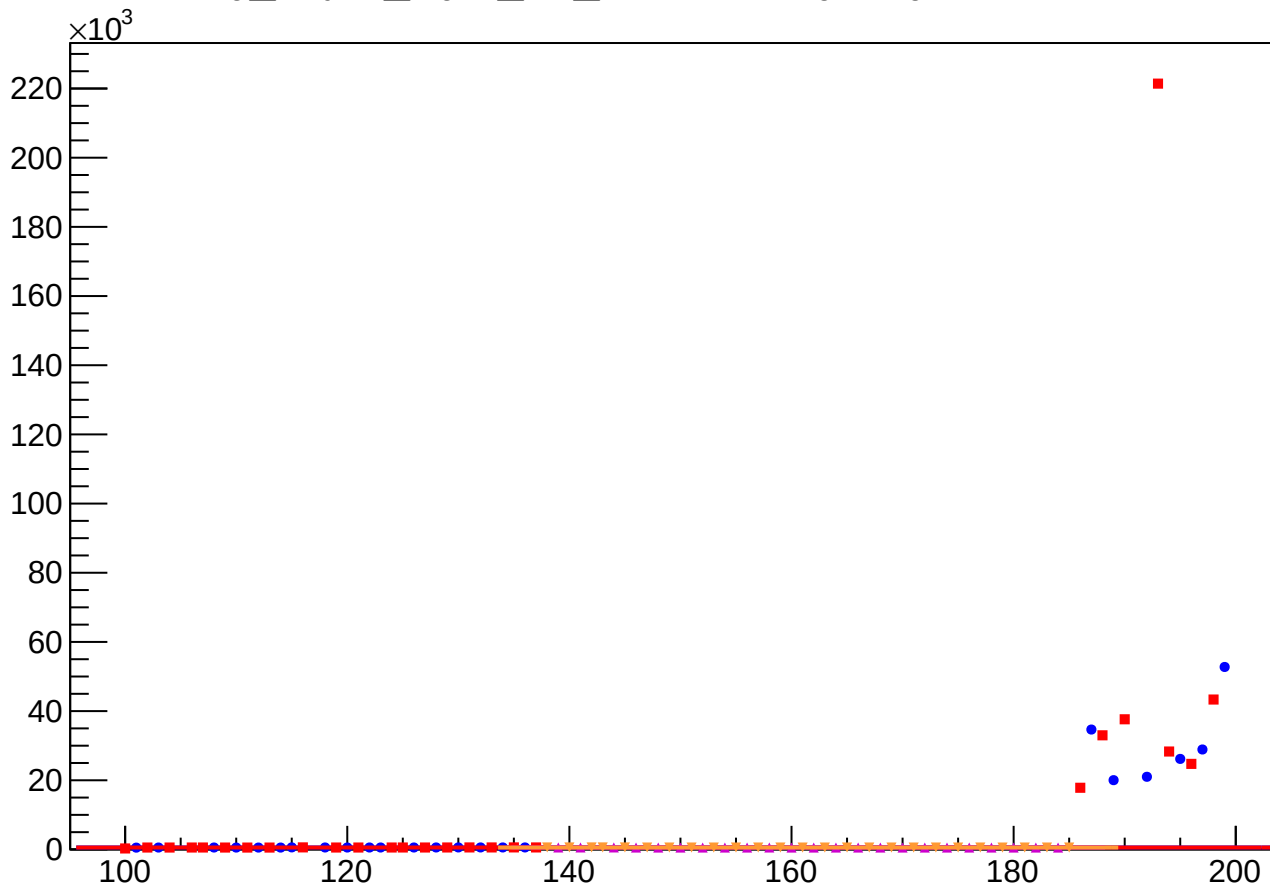
Right: 1145.629 $\pm$ 150.993 χ^2 /NDF: 34.8/47

In: 1231.531 $\pm$ 113.852 χ^2 /NDF:49.2/45

Out: 1053.286 $\pm$ 110.220 χ^2 /NDF:31.8/49

All: 1139.520 $\pm$ 79.190 χ^2 /NDF: 82.2/95

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: 557.609 $\pm$ 0.148 χ^2 /NDF: 4009816.3/25

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

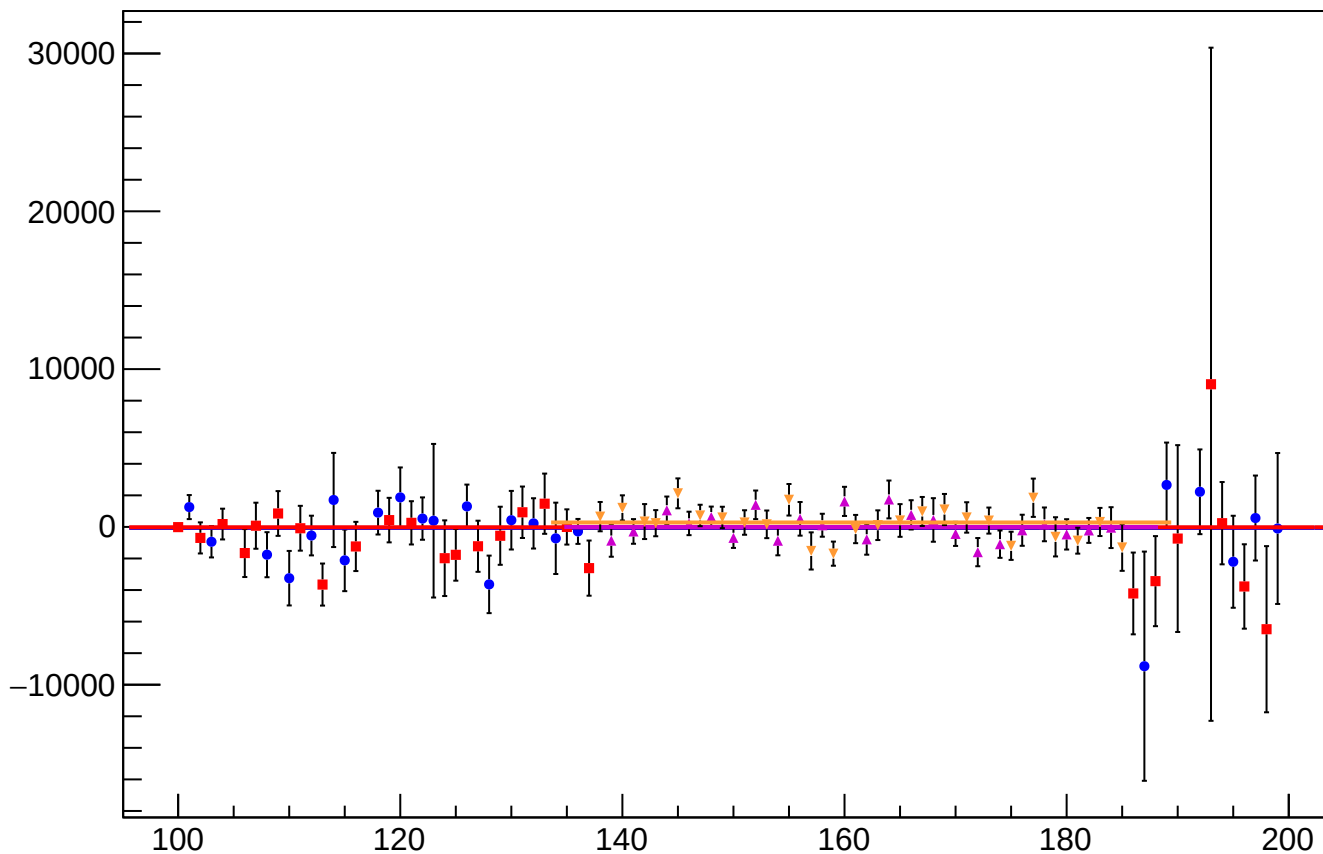
Right: 562.198 $\pm$ 0.107 χ^2 /NDF: 7252009.1/48

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

Out: 557.962 $\pm$ 0.078 χ^2 /NDF:4024609.5/50

All: 559.049 $\pm$ 0.056 χ^2 /NDF: 7279285.3/96

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: -22.756 ± 38.937 χ^2/NDF : 23.6/25

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

Left: 139.424 ± 128.663 χ^2/NDF : 48.2/47

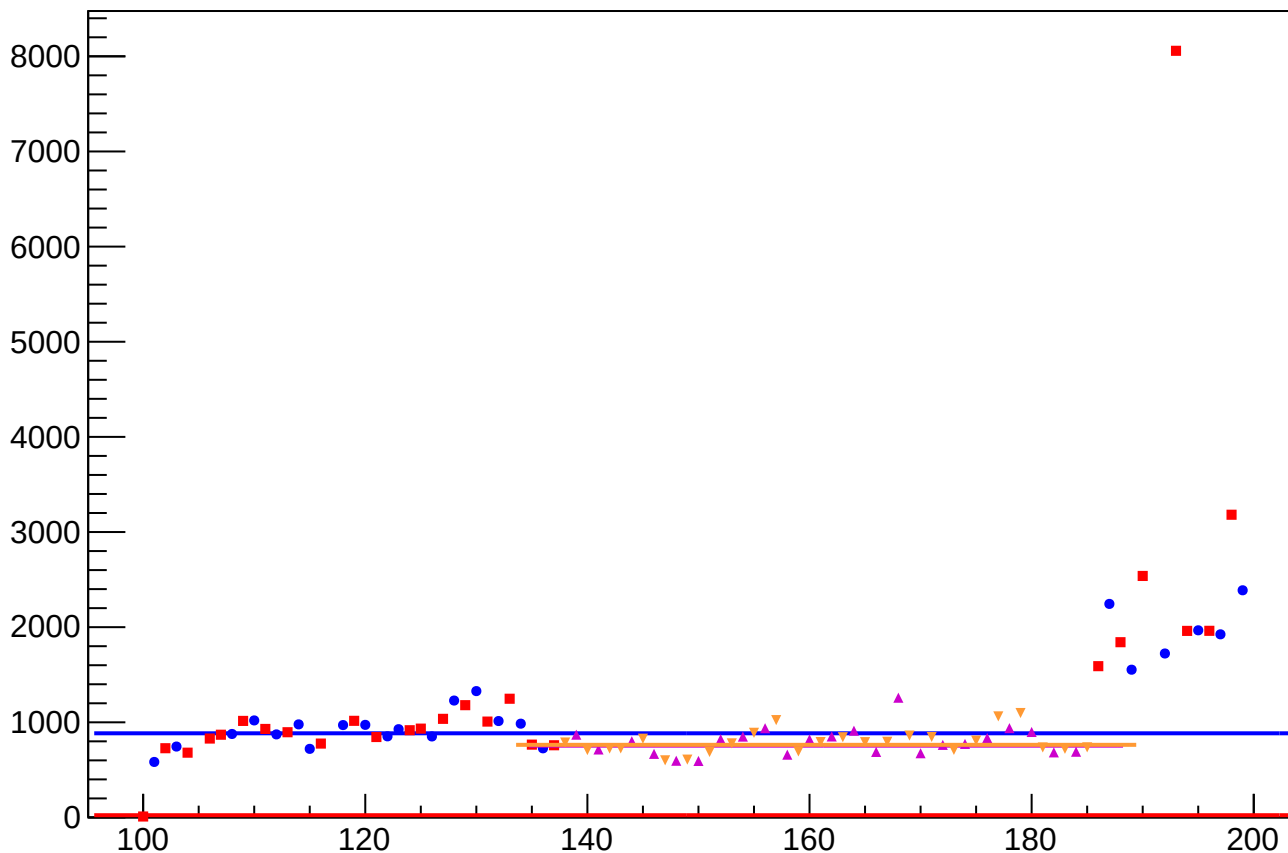
Right: -23.357 ± 38.649 χ^2/NDF : 44.5/48

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

Out: -9.229 ± 38.061 χ^2/NDF : 53.1/50

All: -9.885 ± 37.015 χ^2/NDF : 94.1/96

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 884.538 $\pm$ 0.225 χ^2 /NDF: 1838451.3/22

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

Right Out: 23.616 $\pm$ 0.028 χ^2 /NDF: 18546967.1/25

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

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

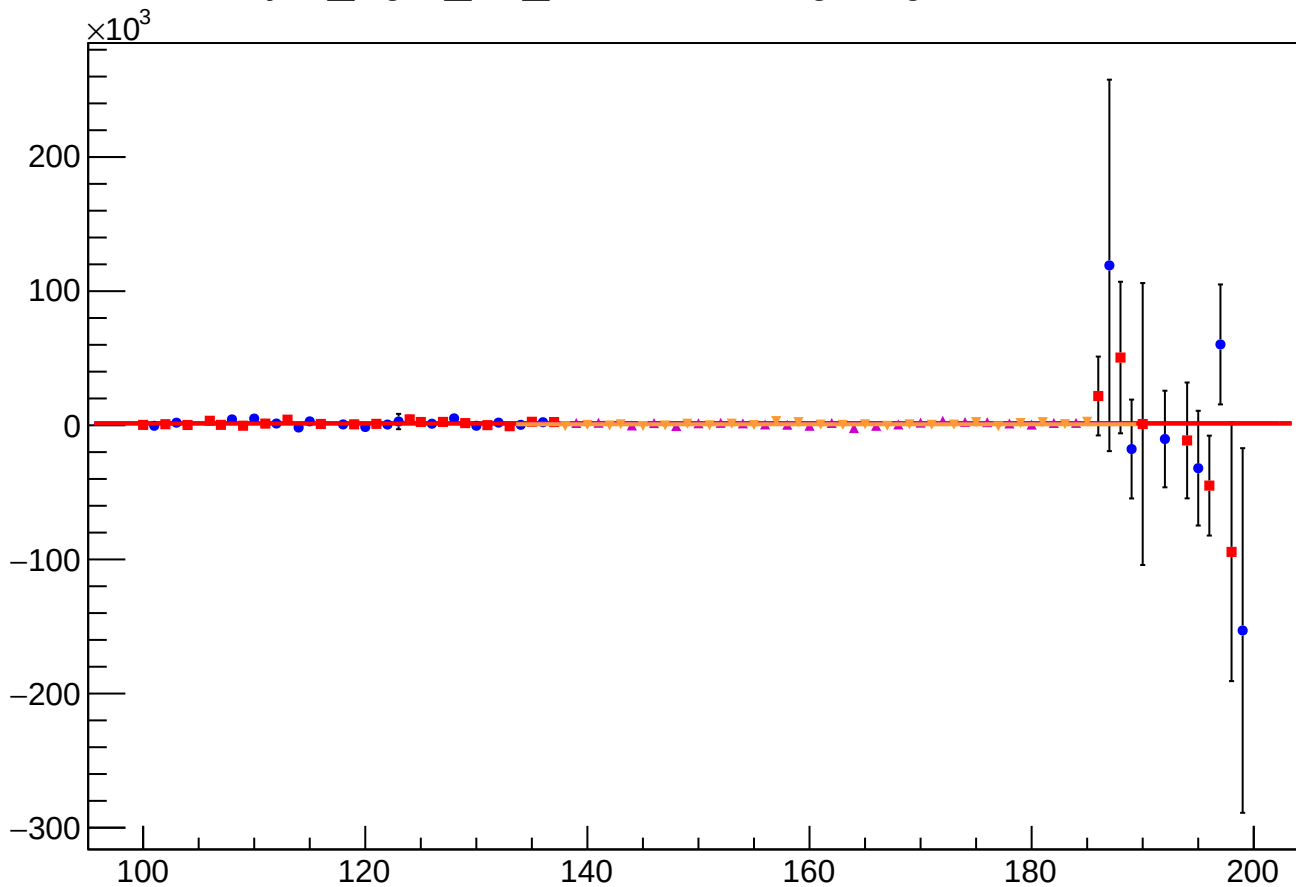
Right: 36.309 $\pm$ 0.027 χ^2 /NDF: 34800923.7/48

In: 786.917 $\pm$ 0.112 χ^2 /NDF: 3020613.2/45

Out: 56.514 $\pm$ 0.027 χ^2 /NDF: 51402034.4/50

All: 96.119 $\pm$ 0.026 χ^2 /NDF: 94360626.8/96

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1517.157+/-402.803 χ^2/NDF : 22.5/22

Left Out: 742.825+/-225.658 χ^2/NDF : 20.2/24

Right Out: 1285.947+/-376.601 χ^2/NDF : 16.2/24

Left In: 1176.288+/-230.229 χ^2/NDF : 24.2/22

Left: 955.211+/-161.156 χ^2/NDF : 46.3/47

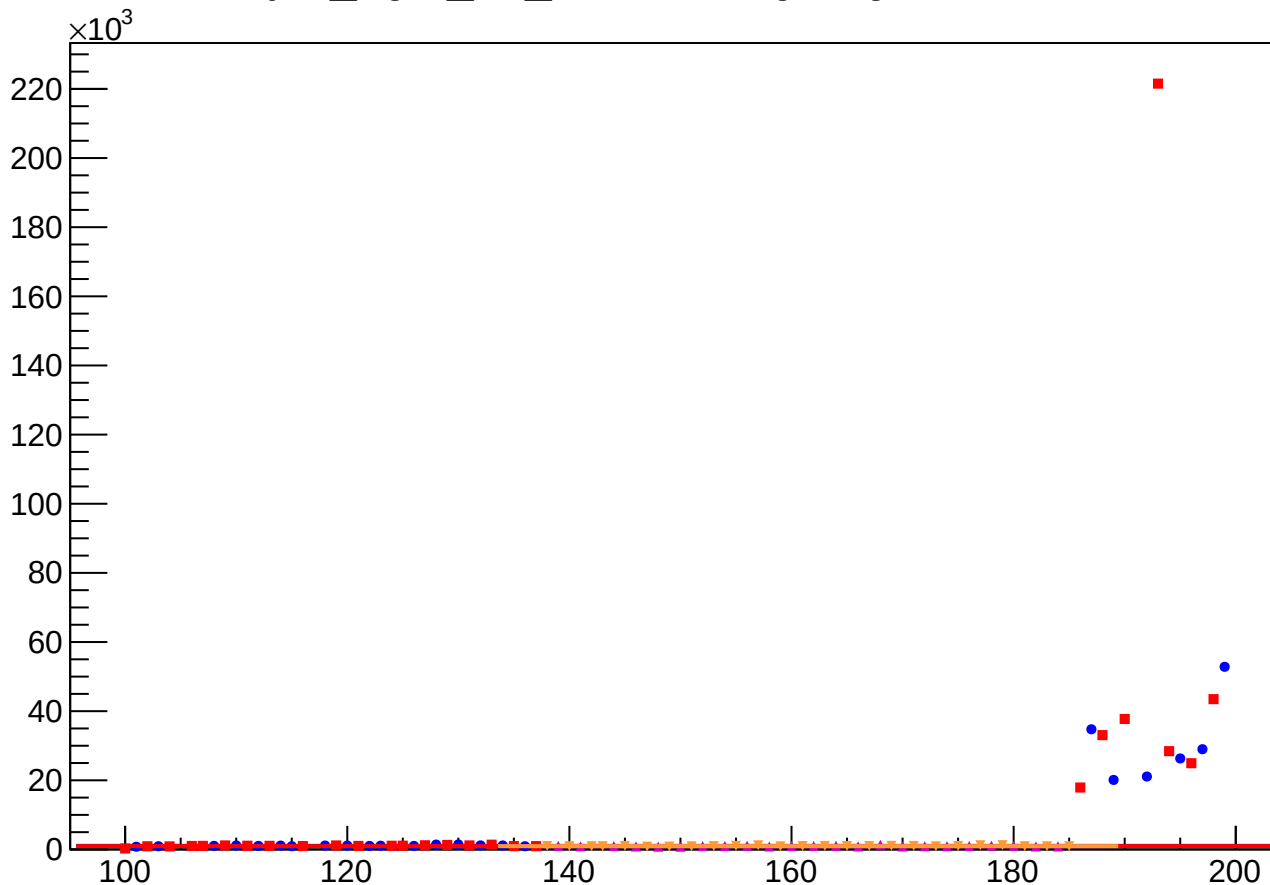
Right: 1393.788+/-275.094 χ^2/NDF : 38.9/47

In: 1260.225+/-199.883 χ^2/NDF : 47.3/45

Out: 886.309+/-193.569 χ^2/NDF : 38.0/49

All: 1067.268+/-139.052 χ^2/NDF : 87.1/95

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: 974.199 $\pm$ 0.266 χ^2 /NDF: 4833571.6/25

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

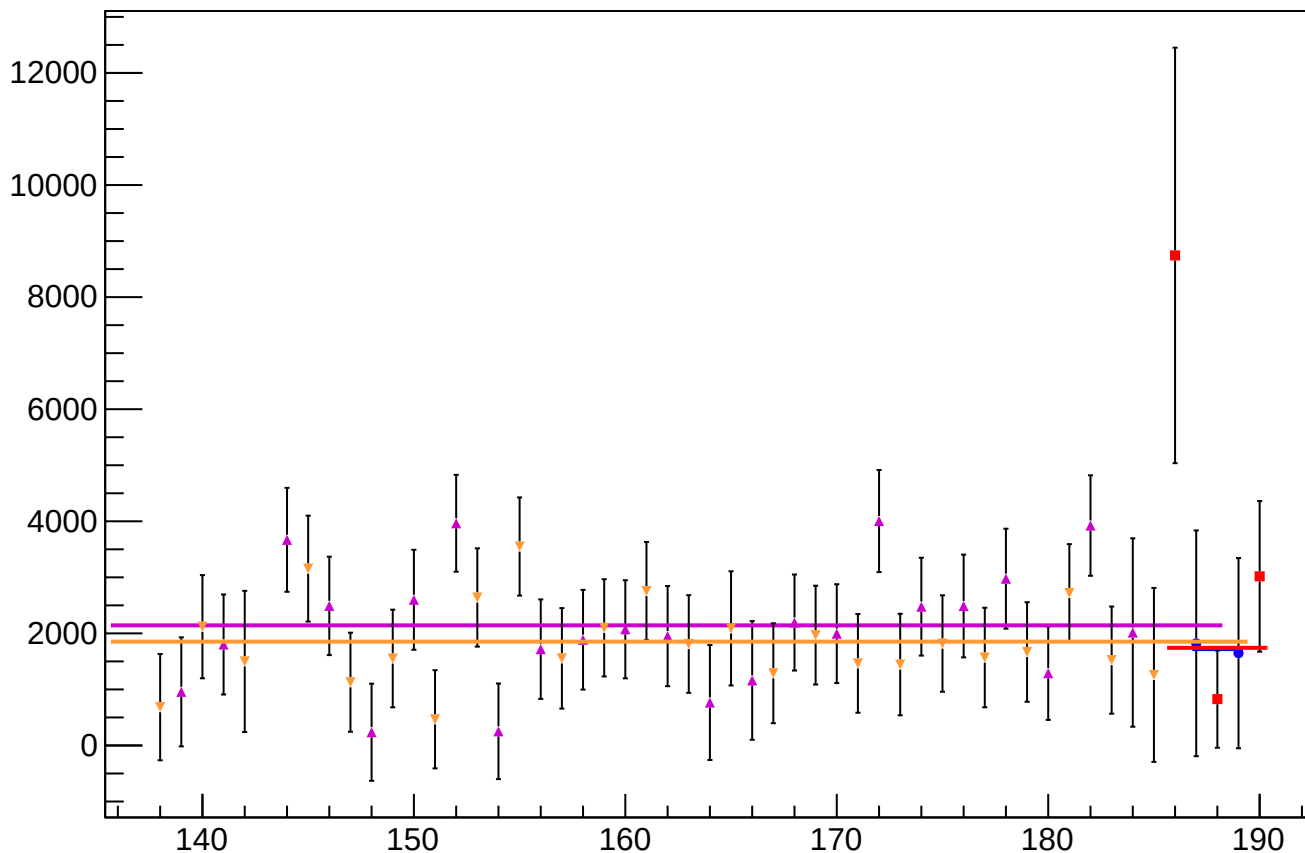
Right: 1001.514 $\pm$ 0.195 χ^2 /NDF: 8306080.3/48

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

Out: 965.794 $\pm$ 0.137 χ^2 /NDF:5197763.4/50

All: 969.958 $\pm$ 0.098 χ^2 /NDF: 9148402.8/96

cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 1720.097 $\pm$ 1297.686 χ^2 /NDF: 0.0/1

Left Out: 1852.926 $\pm$ 187.412 χ^2 /NDF:15.0/23

Right Out: 1742.386 $\pm$ 715.276 χ^2 /NDF: 5.6/2

Left In: 2143.254 $\pm$ 190.144 χ^2 /NDF:32.4/22

Left: 1995.990 $\pm$ 133.476 χ^2 /NDF: 48.5/46

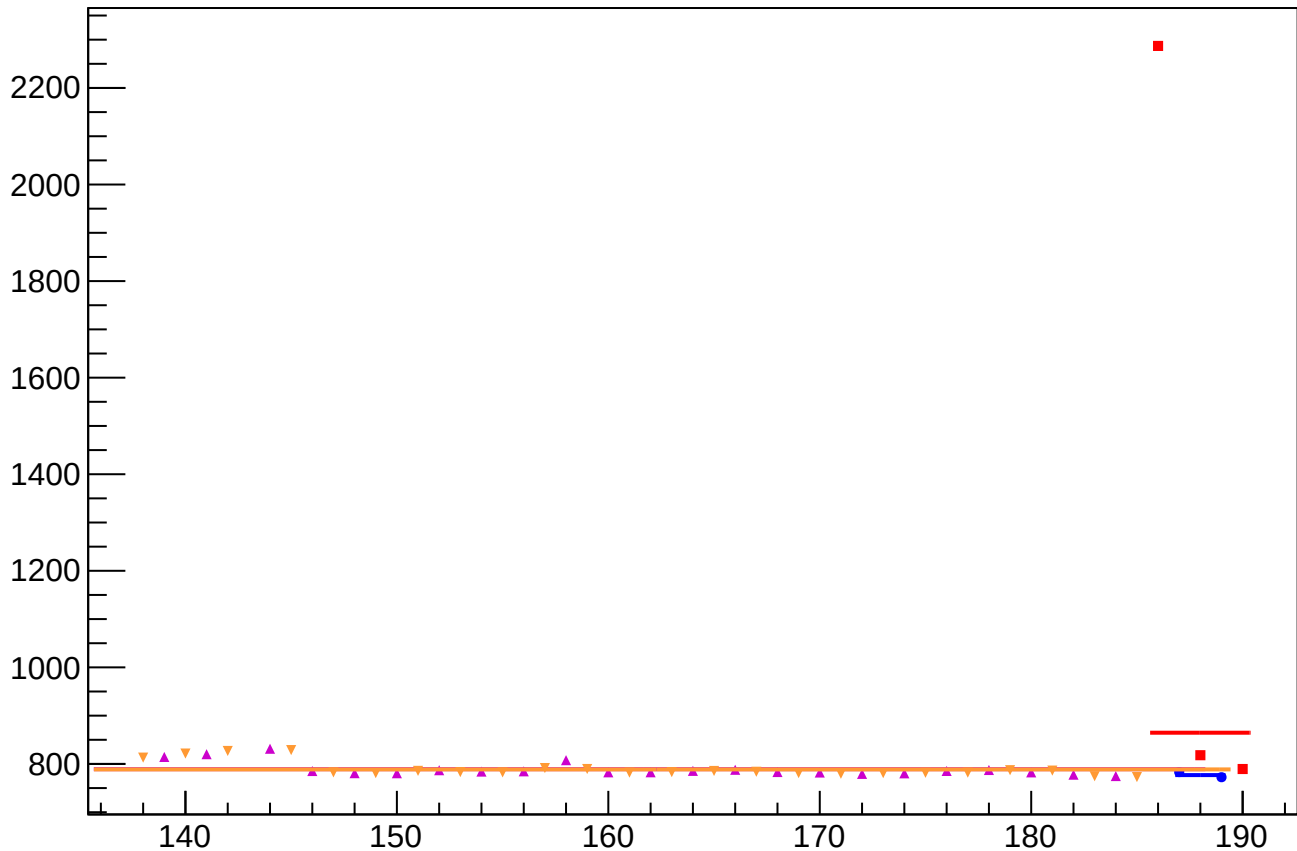
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

In: 2134.360 $\pm$ 188.135 χ^2 /NDF:32.5/24

Out: 1845.825 $\pm$ 181.293 χ^2 /NDF:20.6/26

All: 1984.750 $\pm$ 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

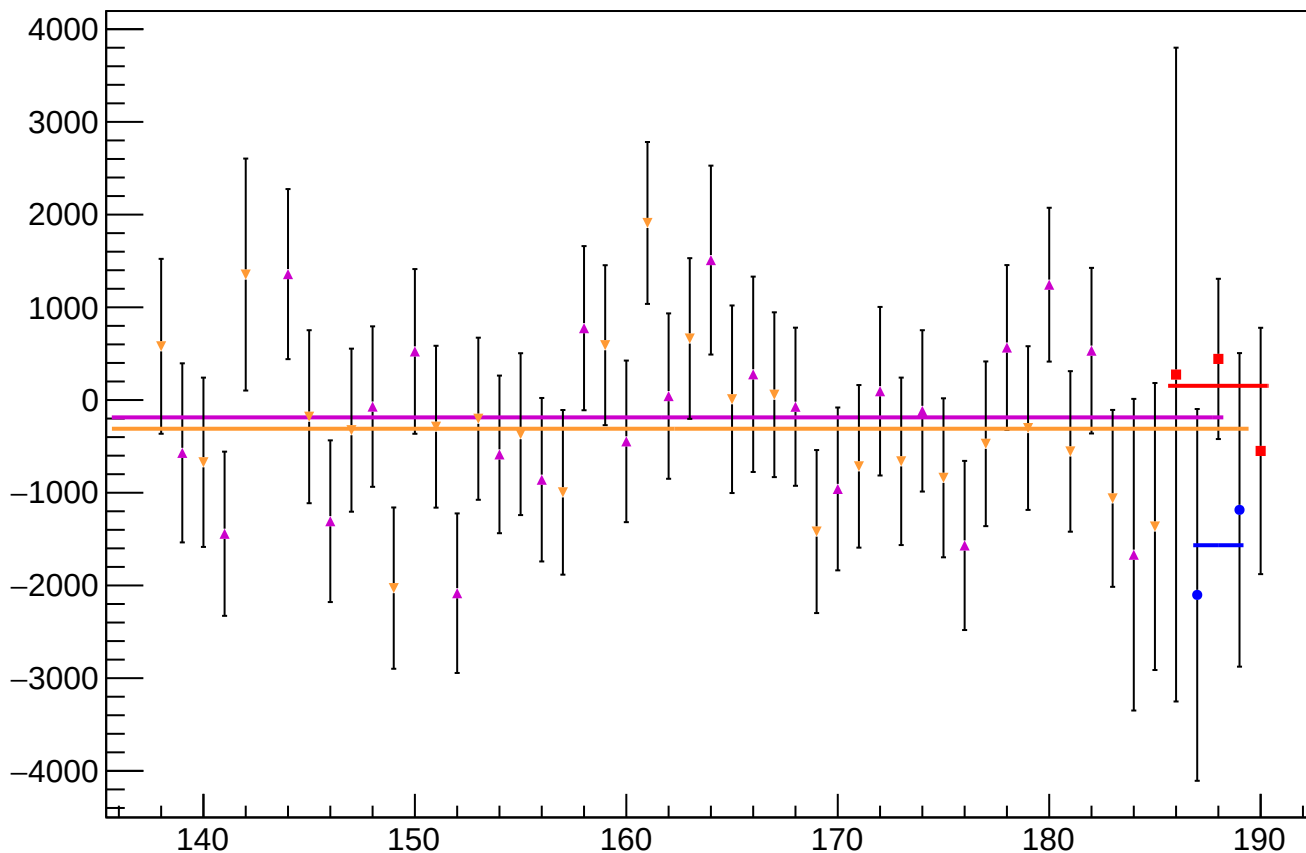
Right: 844.207 $\pm$ 0.443 χ^2 /NDF: 313539.0/4

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

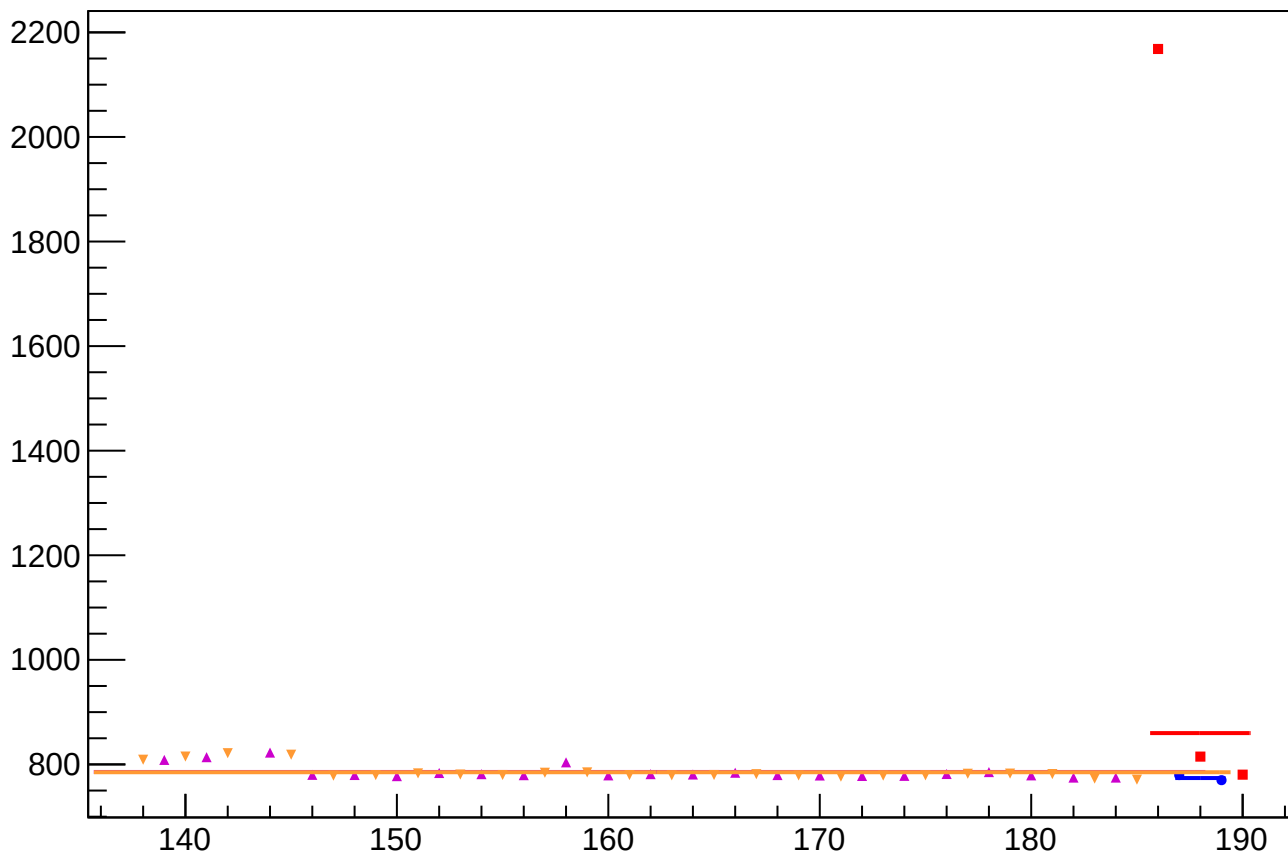
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

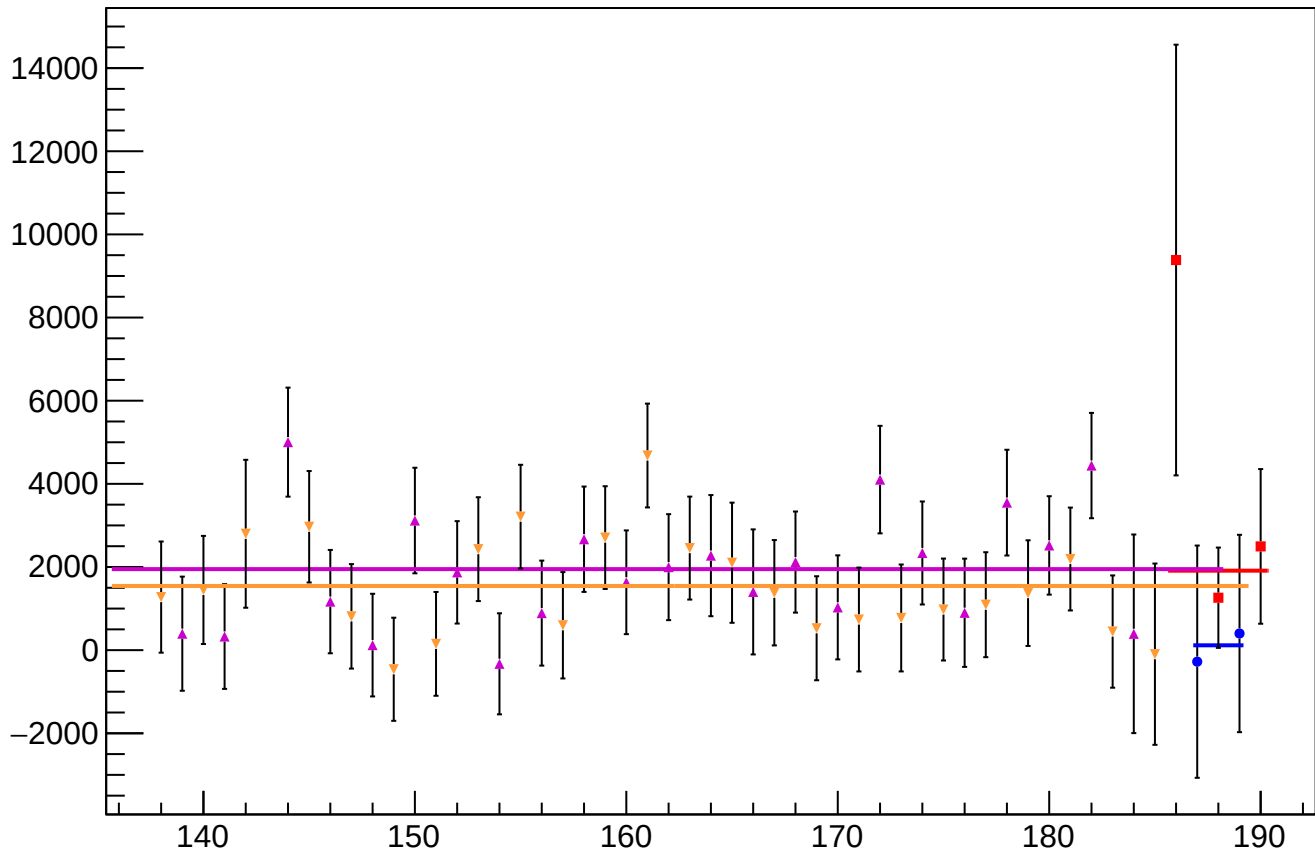
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

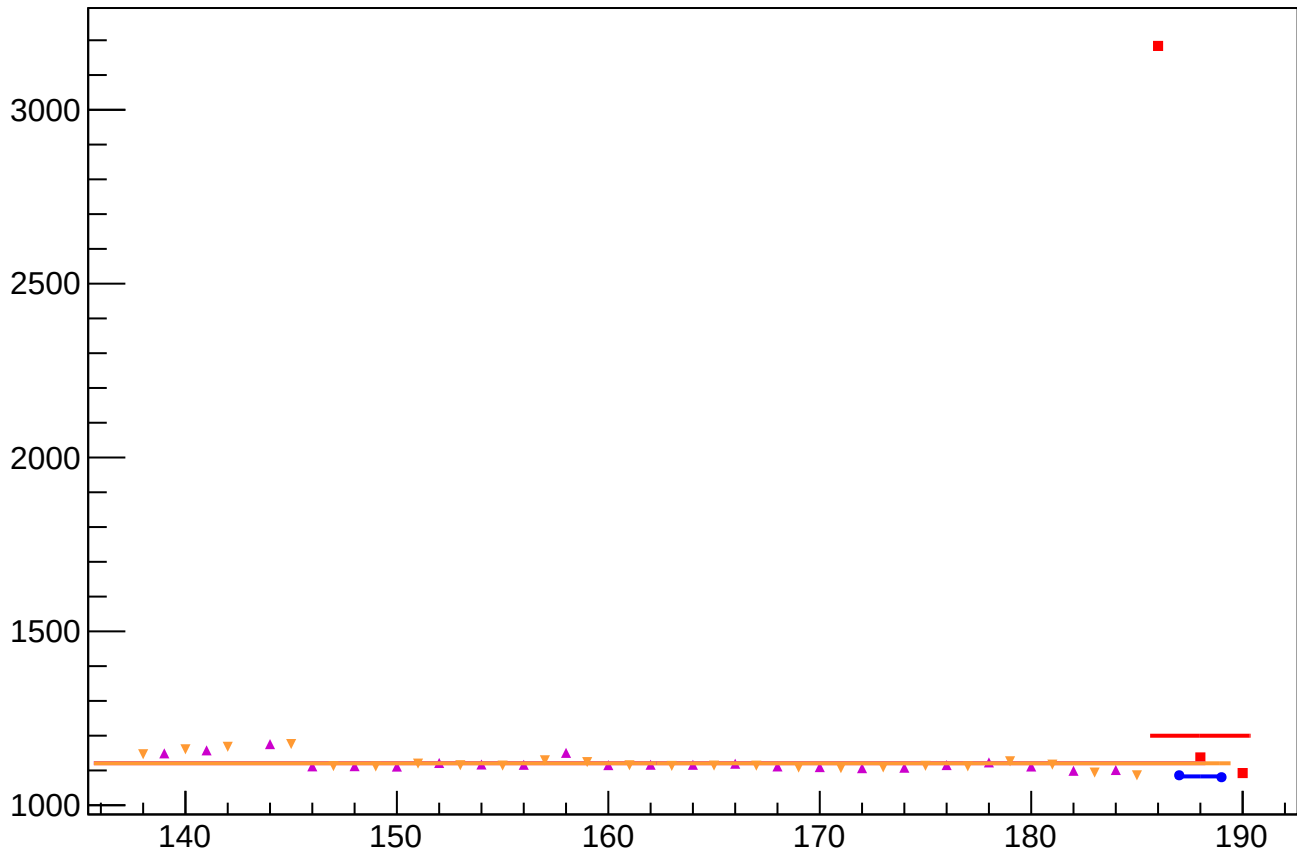
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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 $\pm$ 1.279 χ^2 /NDF: 4.6/1

Left Out: 1120.578 $\pm$ 0.188 χ^2 /NDF:10264.0/23

Right Out: 1199.844 $\pm$ 0.702 χ^2 /NDF: 305356.1/2

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

Left: 1120.775 $\pm$ 0.134 χ^2 /NDF: 19525.9/46

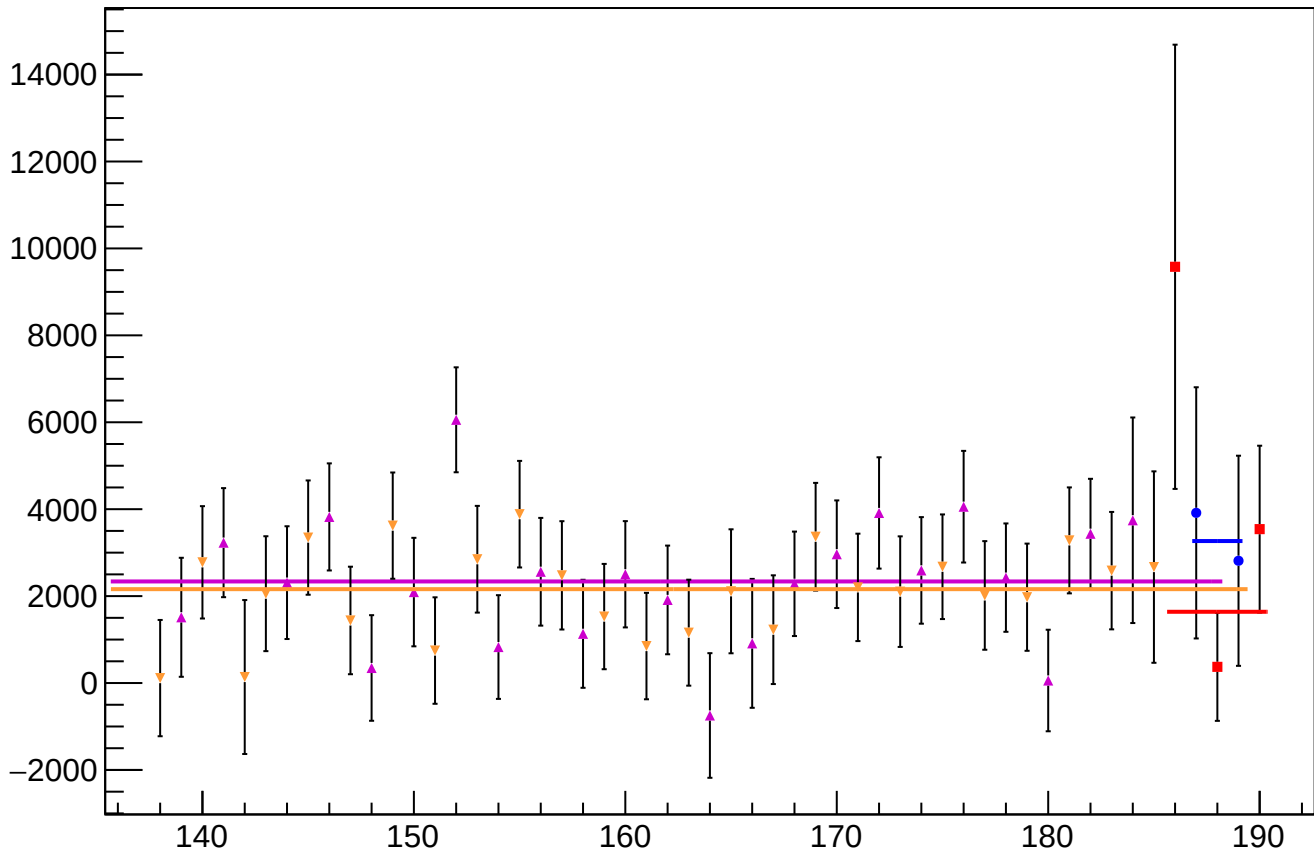
Right: 1172.741 $\pm$ 0.616 χ^2 /NDF: 311788.3/4

In: 1120.146 $\pm$ 0.189 χ^2 /NDF:10132.9/24

Out: 1125.893 $\pm$ 0.182 χ^2 /NDF:327503.8/26

All: 1123.129 $\pm$ 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

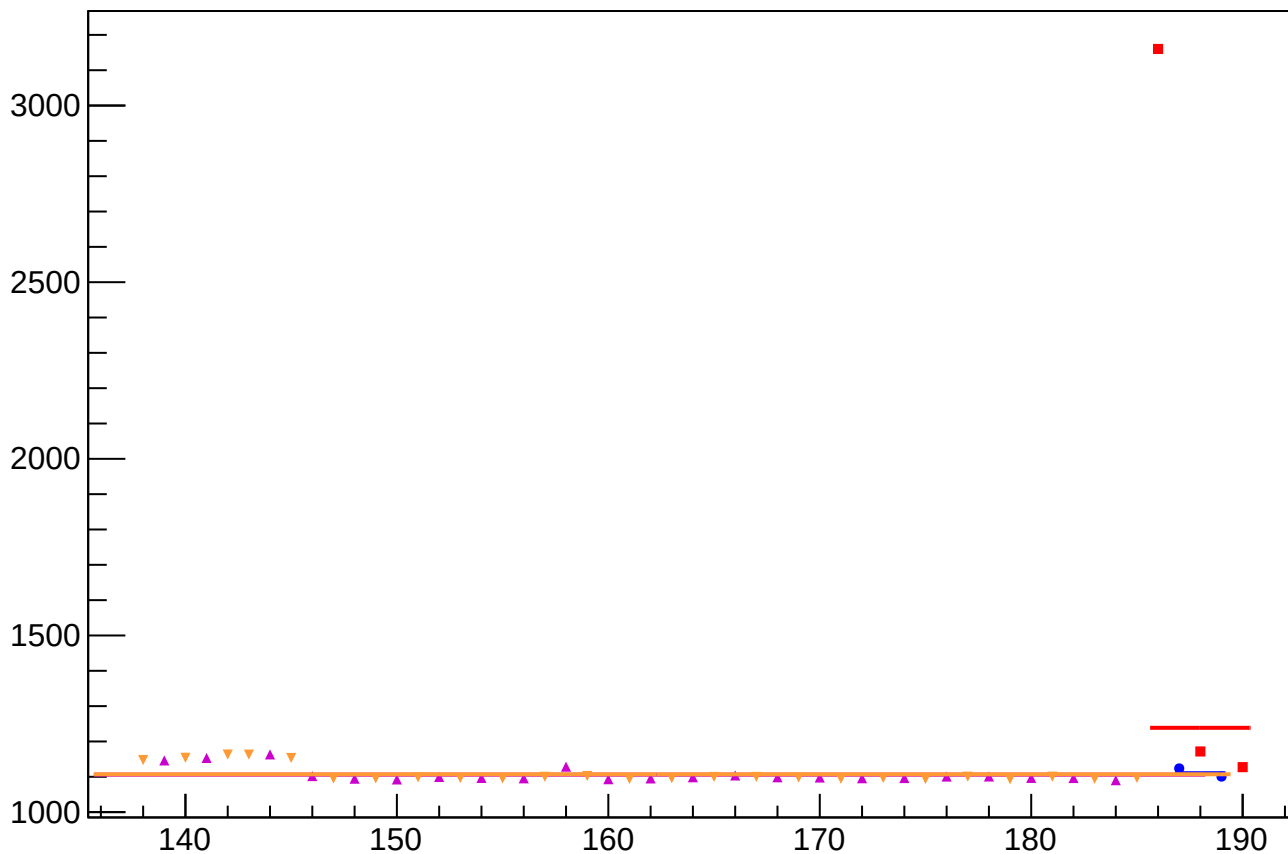
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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+/-1.311 χ^2/NDF : 75.3/1

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

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

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

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

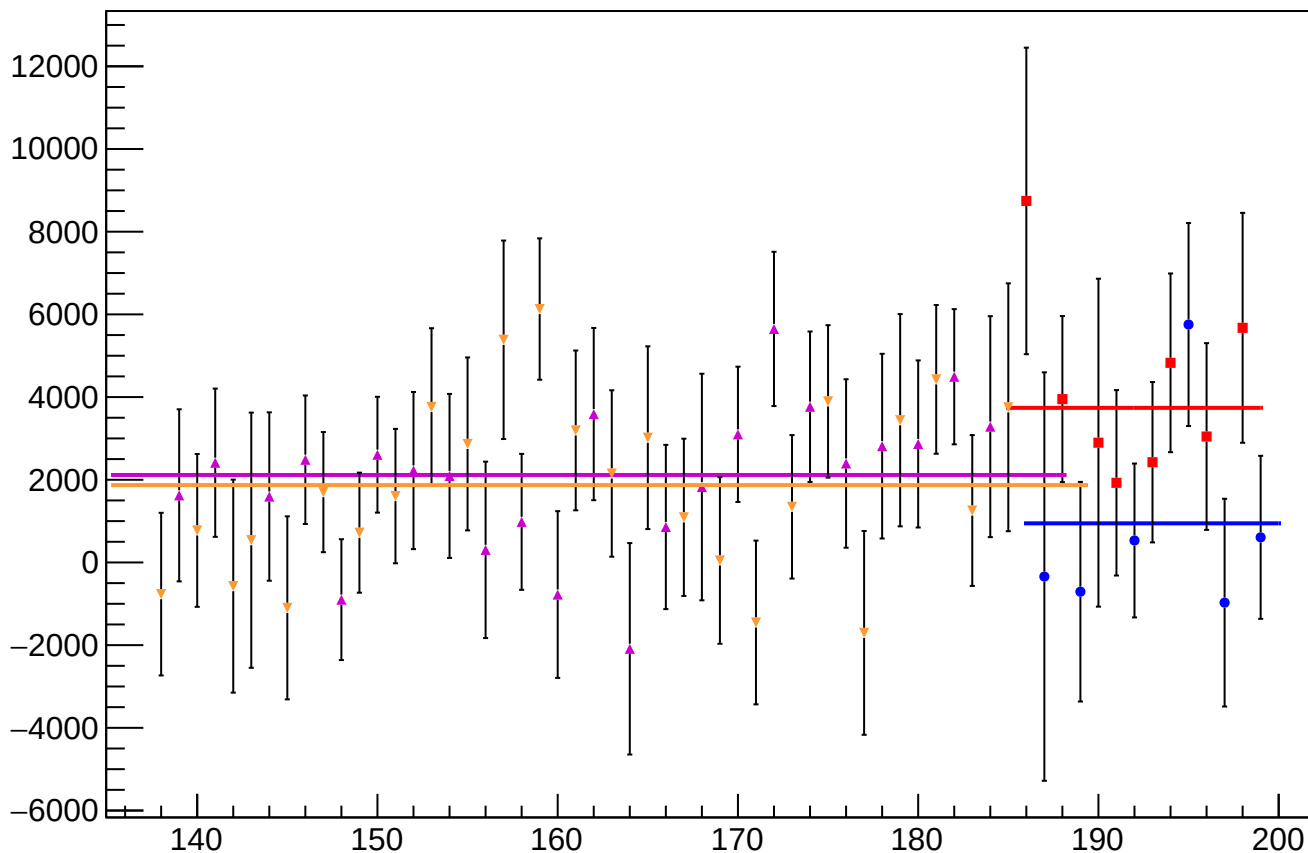
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



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

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

Right Out: 3739.565 +/- 848.675 χ^2/NDF : 3.8/7

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

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

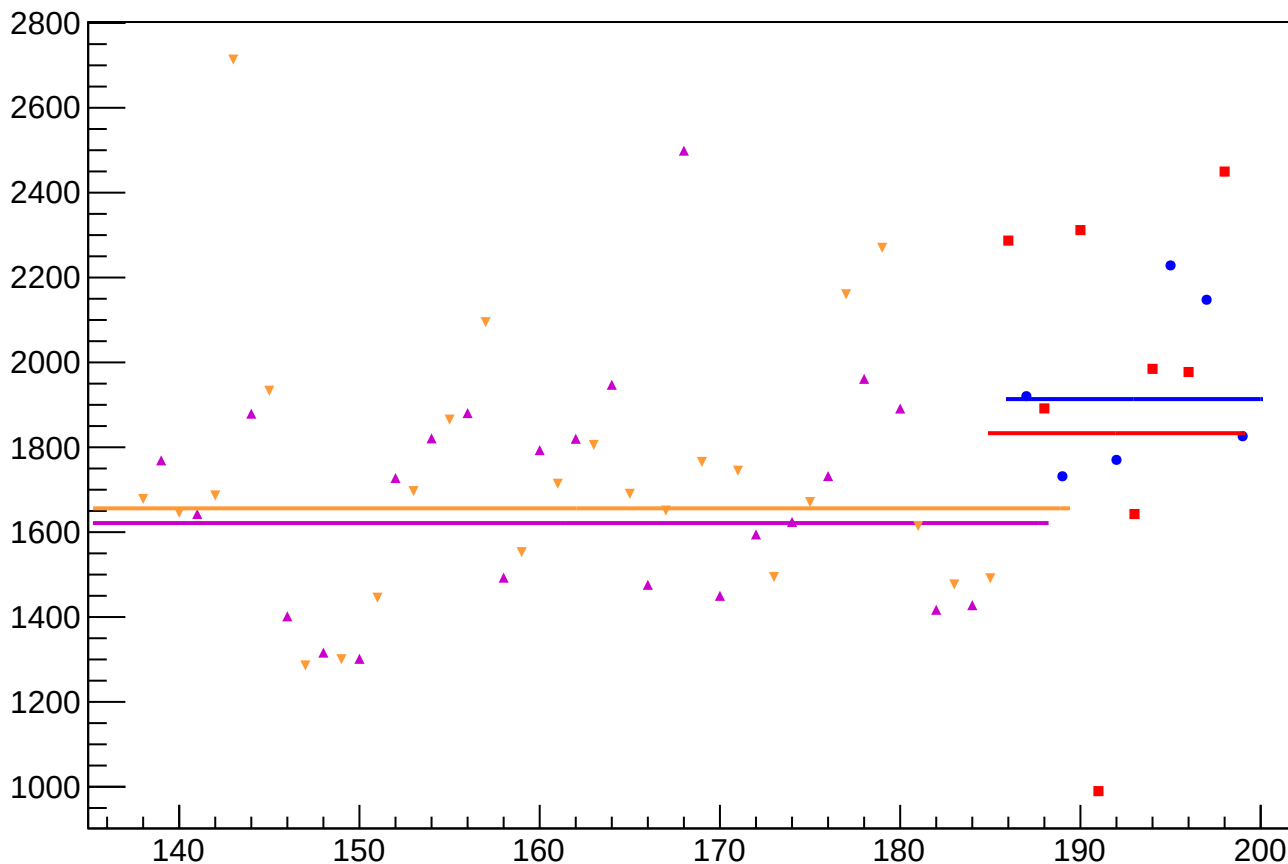
Right: 2534.612 +/- 639.990 χ^2/NDF : 13.5/13

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

Out: 2199.647 +/- 355.635 χ^2/NDF : 33.9/32

All: 2079.068 +/- 254.539 χ^2/NDF : 59.2/61

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: 1833.207 $\pm$ 0.600 χ^2 /NDF: 479386.0/7

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

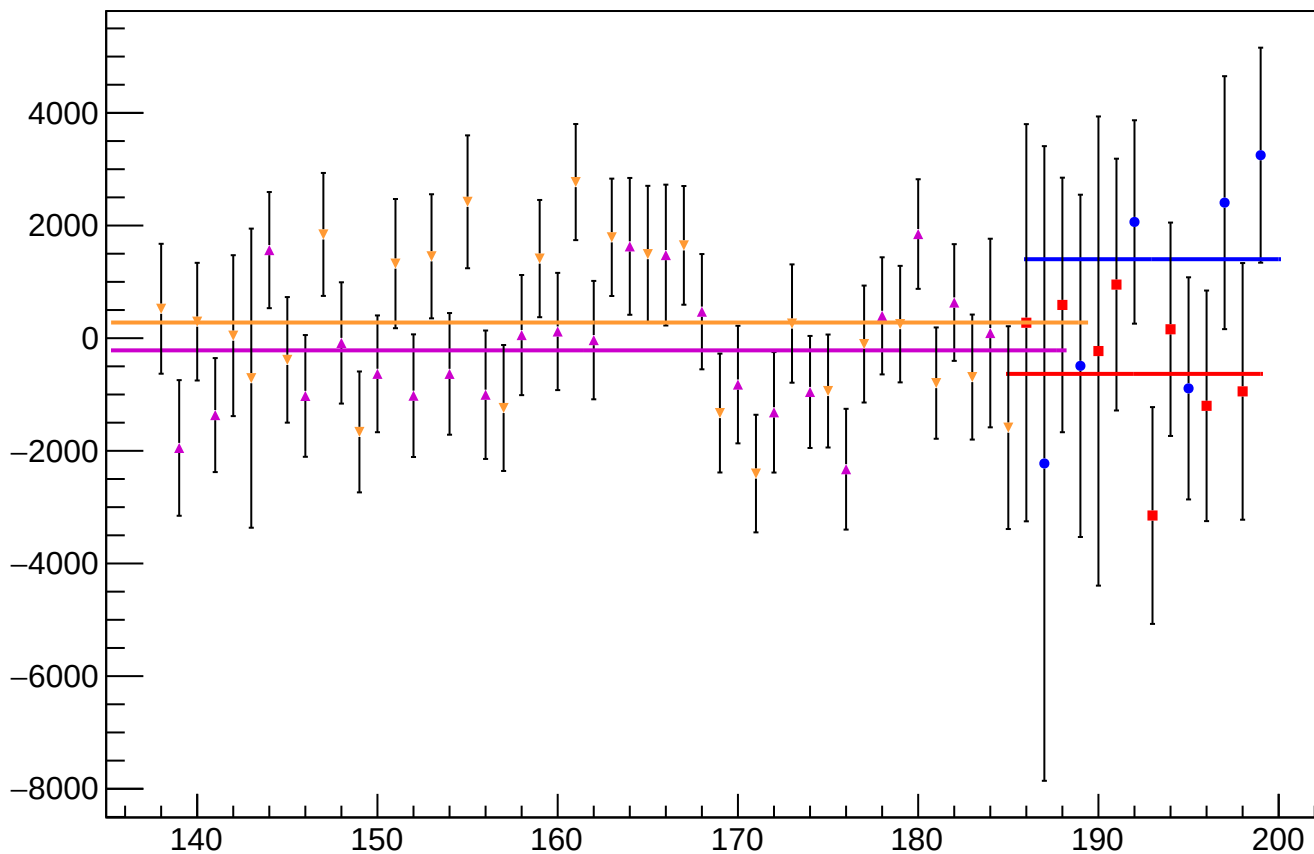
Right: 1867.862 $\pm$ 0.453 χ^2 /NDF: 562581.8/13

In: 1662.284 $\pm$ 0.258 χ^2 /NDF: 1005374.5/28

Out: 1687.216 $\pm$ 0.251 χ^2 /NDF: 1461748.9/32

All: 1675.056 $\pm$ 0.180 χ^2 /NDF: 2471917.6/63

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: -633.701 $\pm$ 812.709 χ^2 /NDF: 2.8/7

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

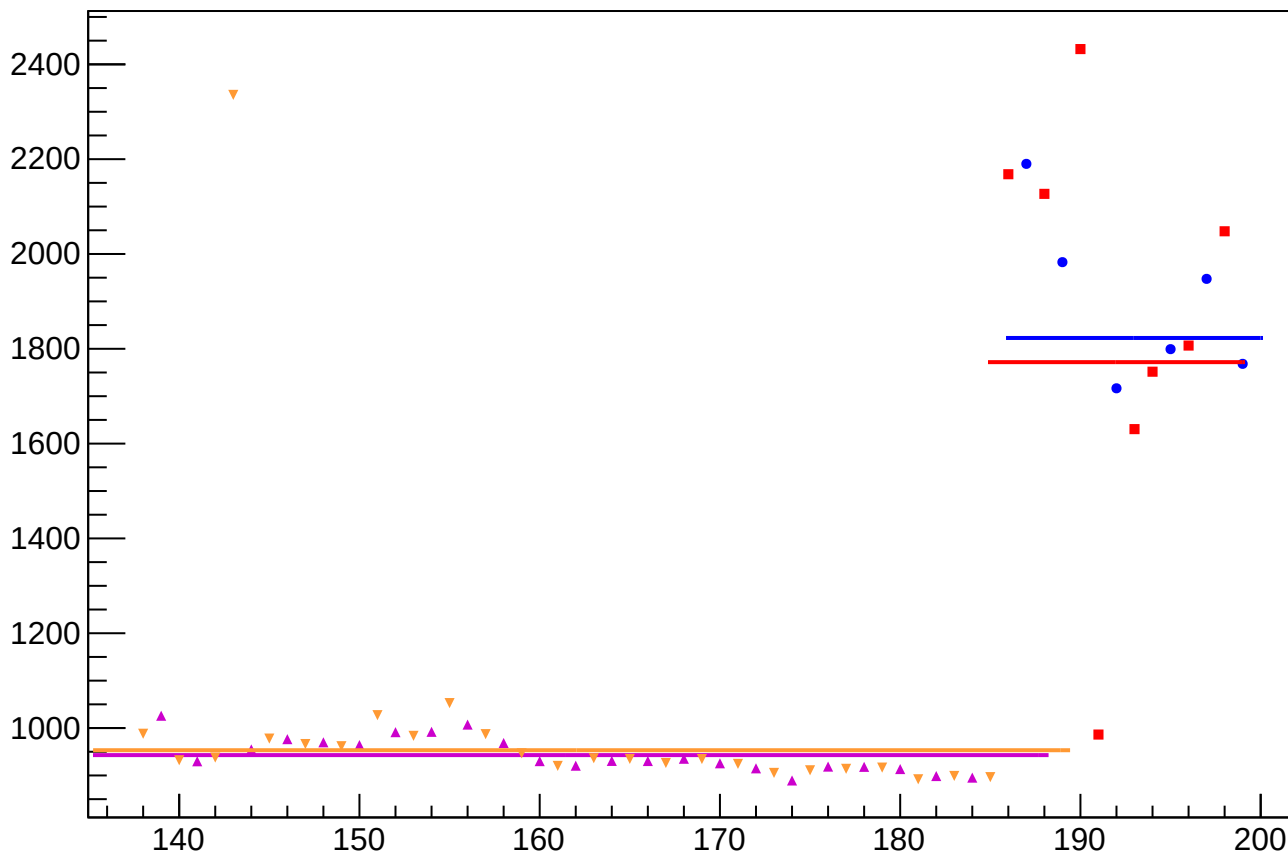
Right: 256.577 $\pm$ 609.650 χ^2 /NDF: 9.0/13

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

Out: 213.938 $\pm$ 215.572 χ^2 /NDF:42.4/32

All: 47.400 $\pm$ 153.677 χ^2 /NDF: 74.4/61

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: 1771.849 $\pm$ 0.575 χ^2/NDF : 412884.1/7

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

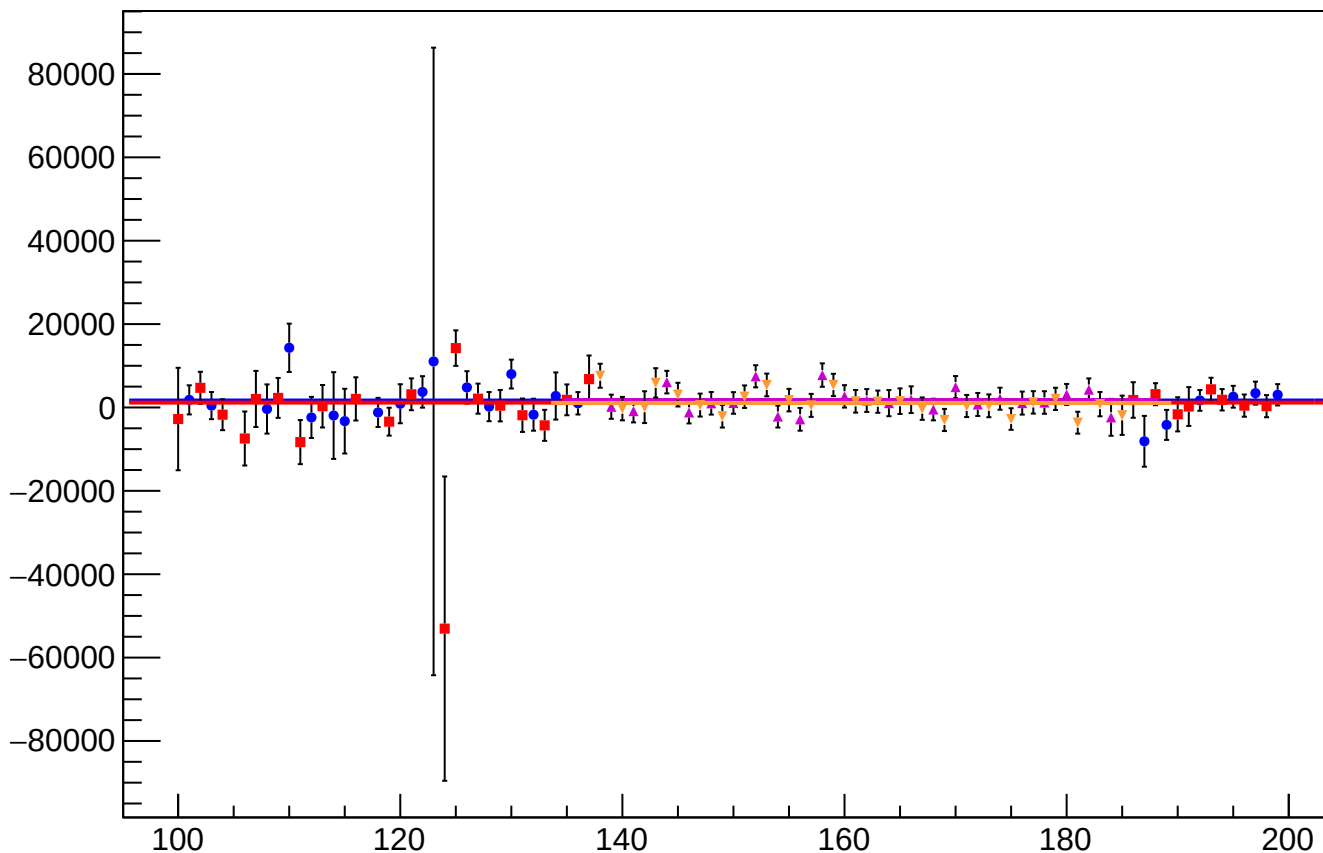
Right: 1794.147 $\pm$ 0.431 χ^2/NDF : 445368.3/13

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

Out: 1010.818 $\pm$ 0.152 χ^2/NDF : 2905618.7/32

All: 1001.877 $\pm$ 0.109 χ^2/NDF : 4708980.3/63

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1666.494 $\pm$ 775.139 χ^2 /NDF: 18.3/22

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

Right Out: 1167.821 $\pm$ 741.946 χ^2 /NDF: 27.0/26

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

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

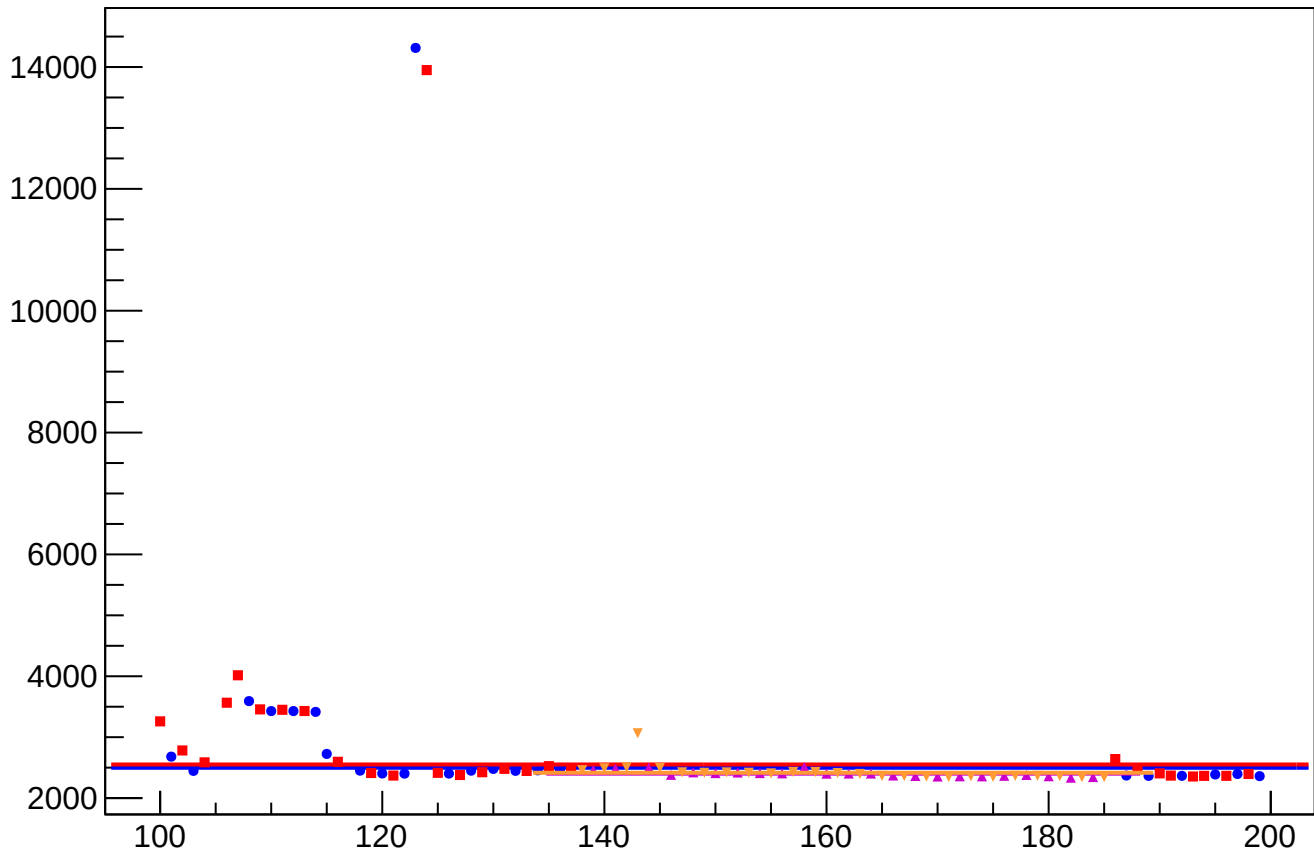
Right: 1406.252 $\pm$ 535.986 χ^2 /NDF: 45.5/49

In: 1737.762 $\pm$ 462.274 χ^2 /NDF: 42.4/45

Out: 1110.930 $\pm$ 449.003 χ^2 /NDF: 50.6/51

All: 1415.219 $\pm$ 322.083 χ^2 /NDF: 93.9/97

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2498.135 $\pm$ 0.548 χ^2 /NDF: 290261.0/22

Left Out: 2416.019 $\pm$ 0.399 χ^2 /NDF: 82636.1/24

Right Out: 2551.827 $\pm$ 0.525 χ^2 /NDF: 606152.8/26

Left In: 2401.422 $\pm$ 0.407 χ^2 /NDF: 13747.6/22

Left: 2408.873 $\pm$ 0.285 χ^2 /NDF: 97039.6/47

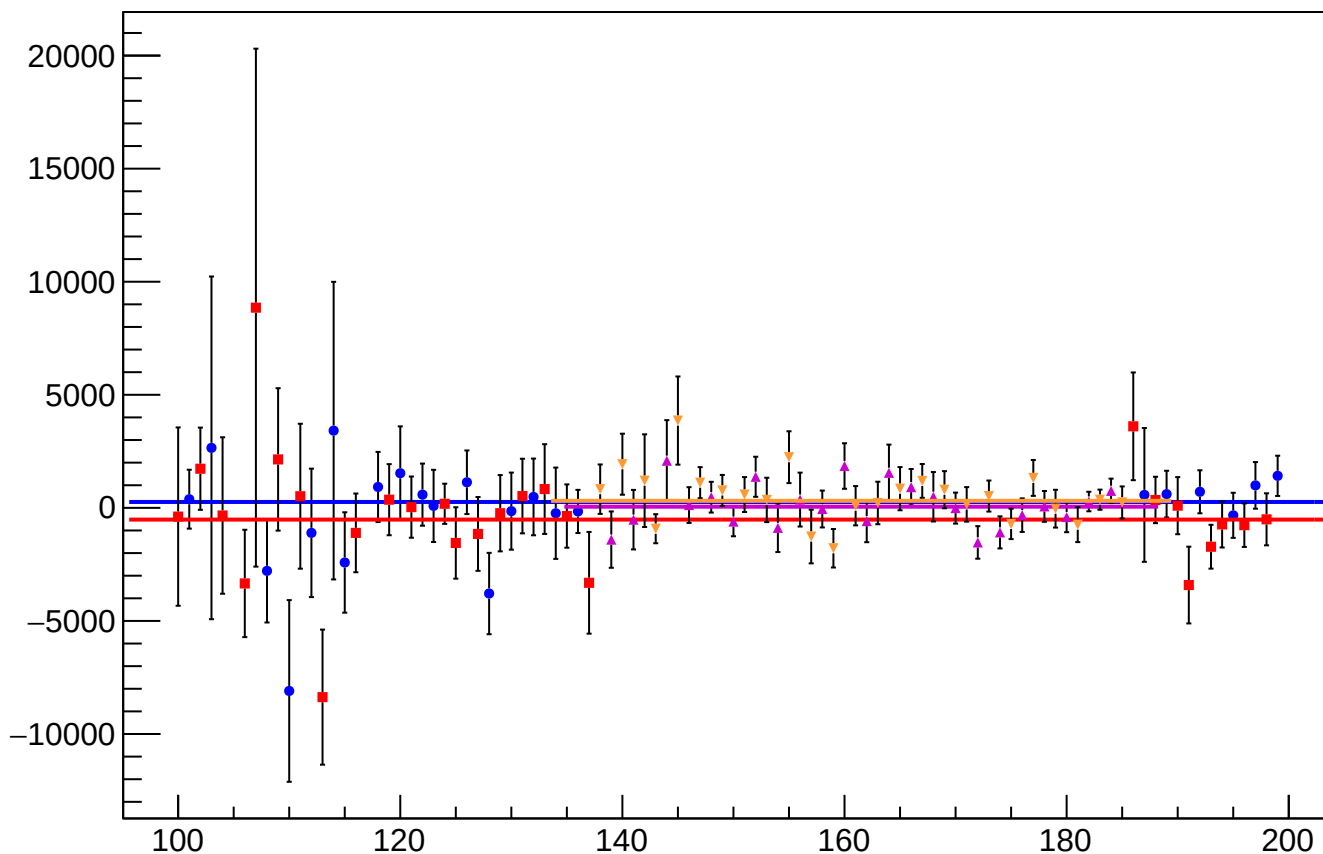
Right: 2526.155 $\pm$ 0.379 χ^2 /NDF: 901421.6/49

In: 2435.819 $\pm$ 0.327 χ^2 /NDF: 324069.8/45

Out: 2465.756 $\pm$ 0.317 χ^2 /NDF: 731256.9/51

All: 2451.223 $\pm$ 0.228 χ^2 /NDF: 1059642.7/97

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: -518.485+/-289.771 χ^2/NDF : 24.1/26

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

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

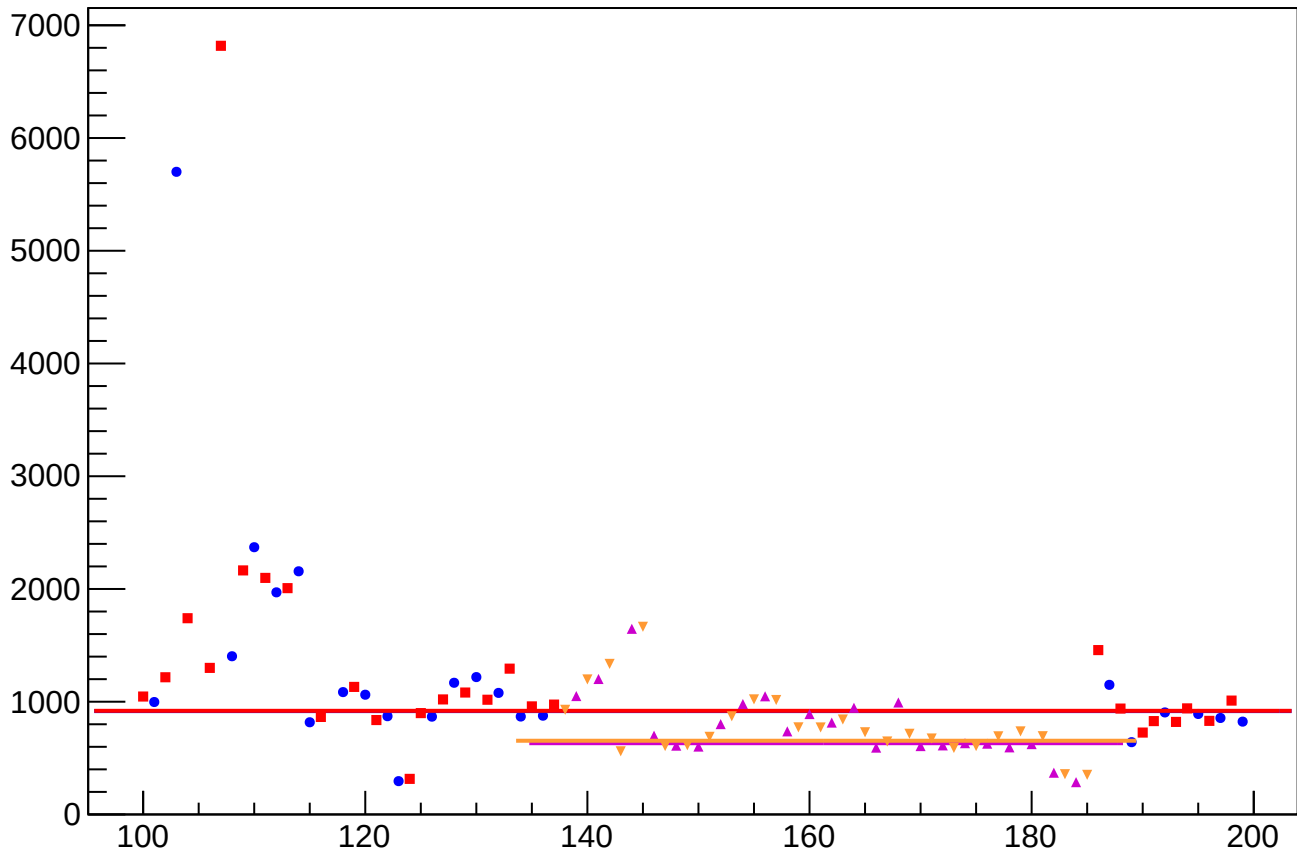
Right: -144.288+/-208.944 χ^2/NDF : 45.0/49

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

Out: 115.890+/-140.502 χ^2/NDF : 60.1/51

All: 107.204+/-100.062 χ^2/NDF : 101.8/97

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 916.748 ± 0.213 χ^2/NDF : 2158900.3/22

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

Right Out: 919.278 ± 0.205 χ^2/NDF : 2880692.9/26

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

Left: 643.002 ± 0.081 χ^2/NDF : 7215752.9/47

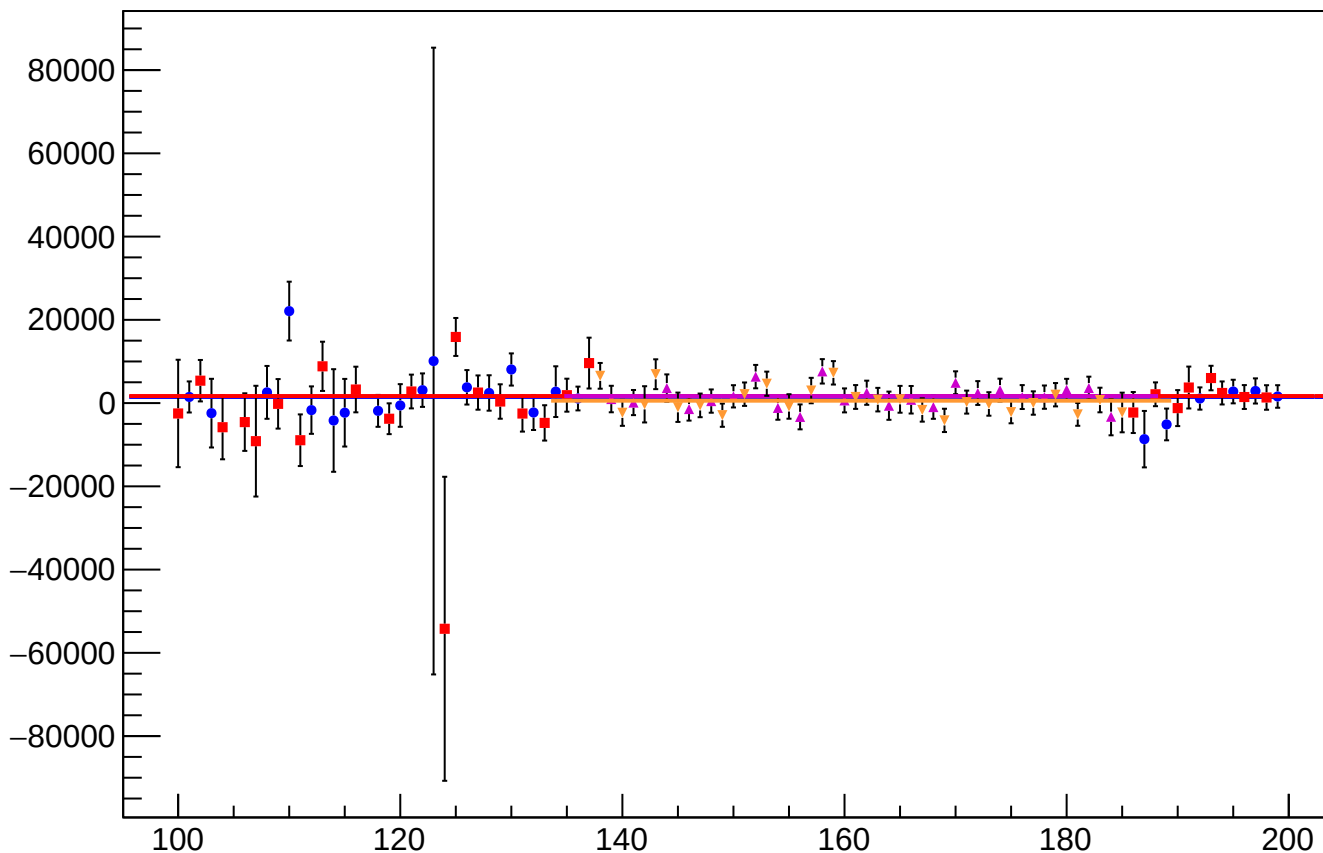
Right: 918.064 ± 0.148 χ^2/NDF : 5039666.3/49

In: 695.655 ± 0.101 χ^2/NDF : 7486034.5/45

Out: 716.216 ± 0.099 χ^2/NDF : 7419403.7/51

All: 706.083 ± 0.071 χ^2/NDF : 14926546.4/97

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: 1693.008 $\pm$ 832.085 χ^2 /NDF: 30.5/26

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

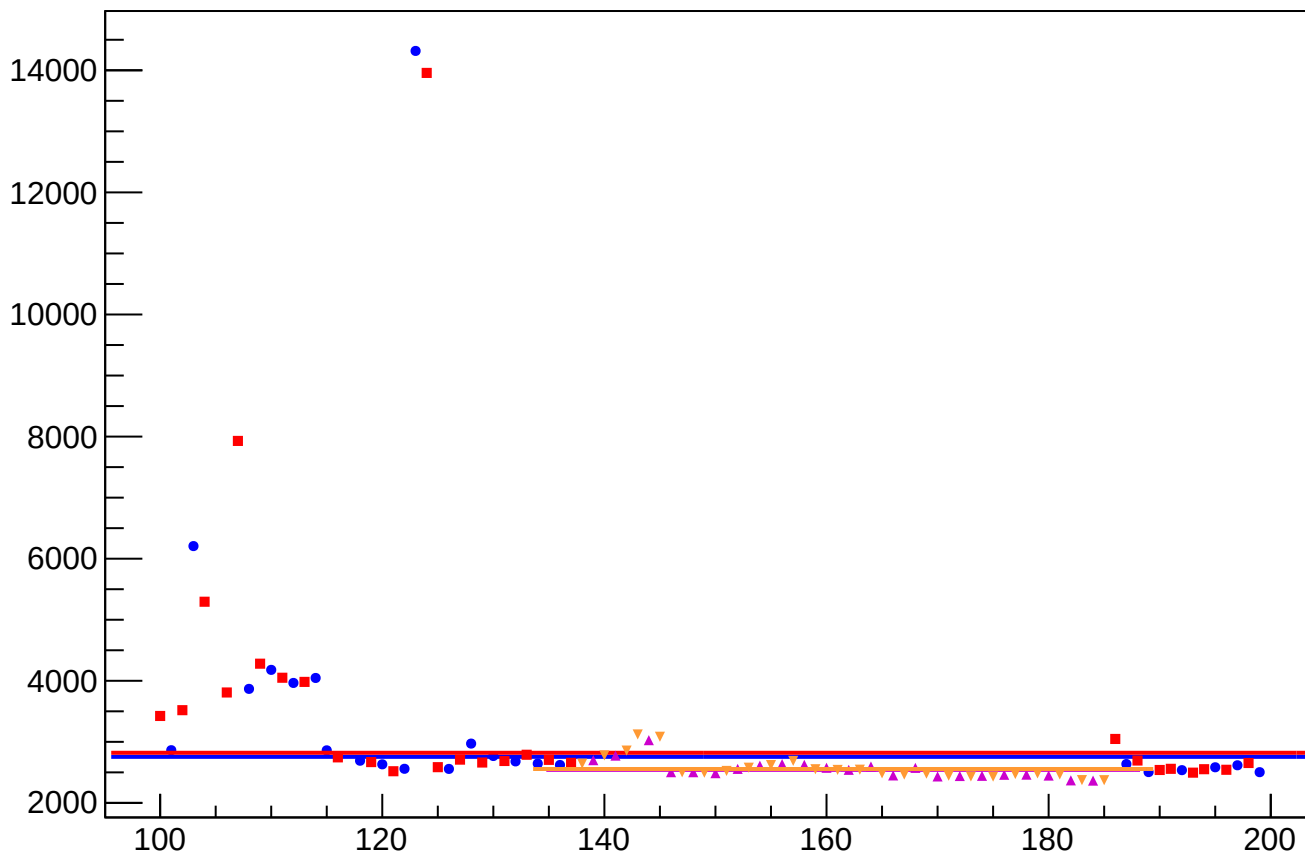
Right: 1588.654 $\pm$ 599.329 χ^2 /NDF: 51.0/49

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

Out: 958.963 $\pm$ 485.159 χ^2 /NDF:57.0/51

All: 1276.653 $\pm$ 347.637 χ^2 /NDF: 96.6/97

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: 2820.965+/-0.588 χ^2/NDF : 1168004.5/26

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

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

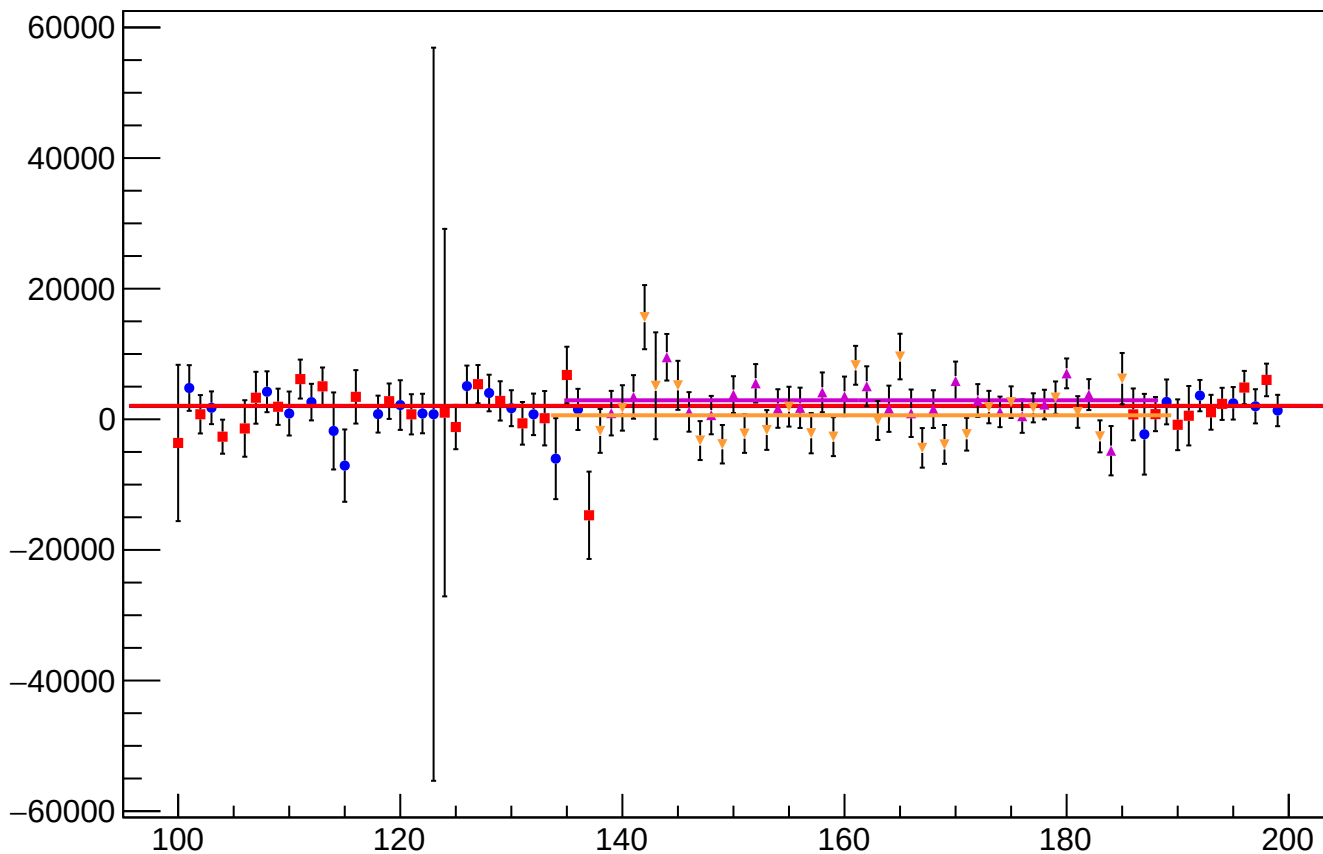
Right: 2788.901+/-0.424 χ^2/NDF : 1901571.0/49

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

Out: 2645.603+/-0.343 χ^2/NDF :1457333.6/51

All: 2629.242+/-0.246 χ^2/NDF : 2365534.4/97

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2031.149+/-662.776 χ^2/NDF : 9.2/22

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

Right Out: 2062.707+/-627.803 χ^2/NDF : 23.3/26

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

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

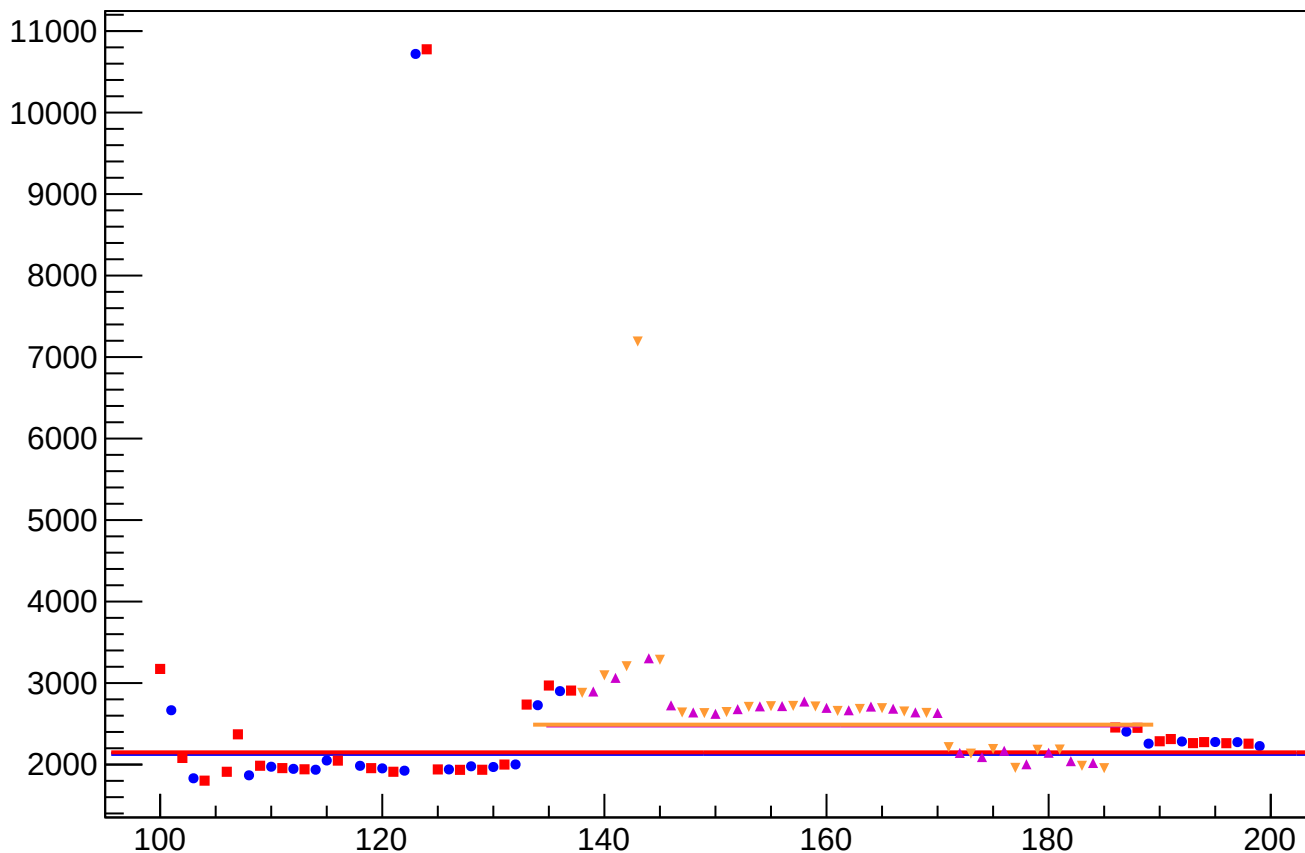
Right: 2047.783+/-455.786 χ^2/NDF : 32.4/49

In: 2513.903+/-444.673 χ^2/NDF : 27.5/45

Out: 1295.288+/-430.380 χ^2/NDF : 71.3/51

All: 1884.696+/-309.254 χ^2/NDF : 102.7/97

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: 2149.800+/-0.444 χ^2/NDF : 530274.4/26

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

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

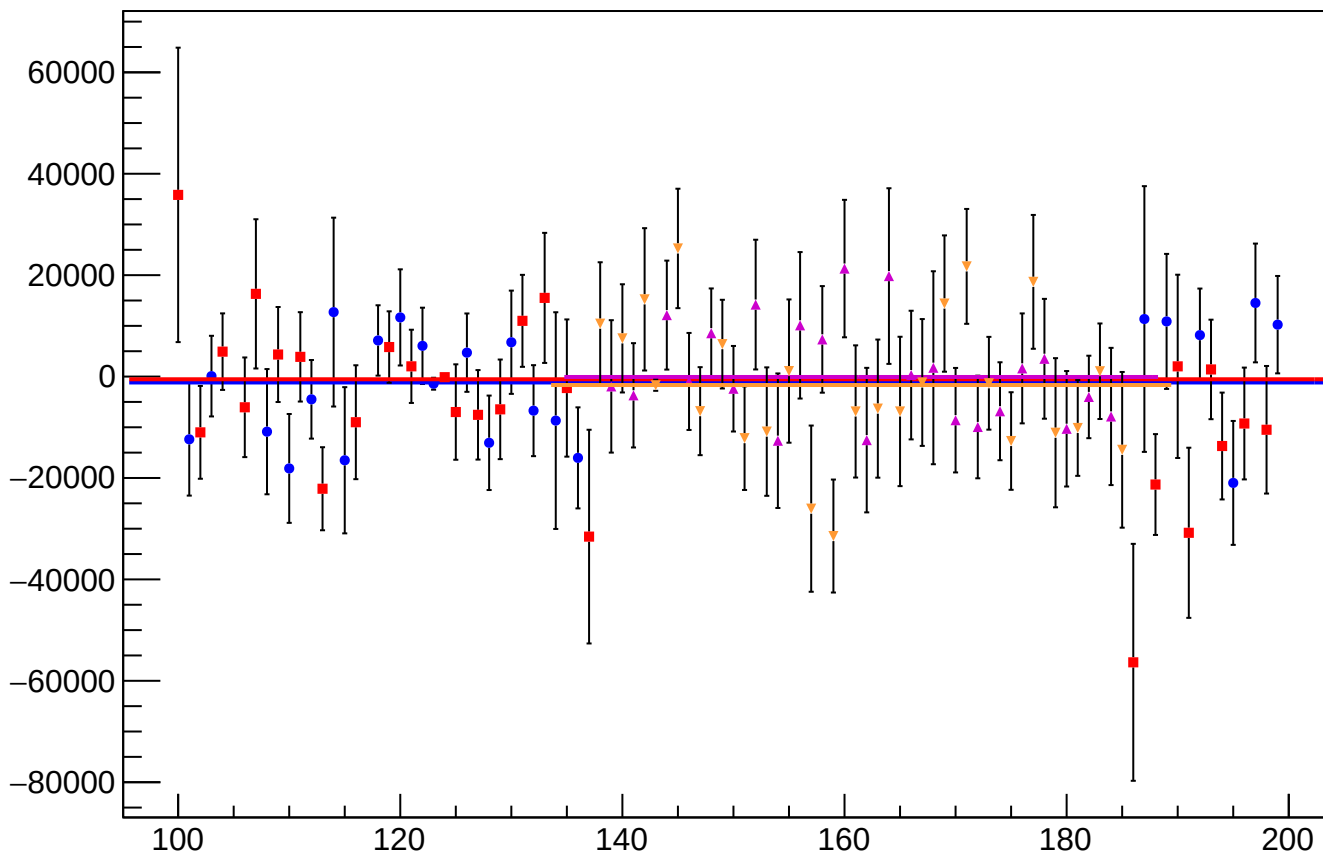
Right: 2140.763+/-0.322 χ^2/NDF : 894421.0/49

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

Out: 2329.896+/-0.304 χ^2/NDF :2204993.6/51

All: 2326.272+/-0.219 χ^2/NDF : 3541285.9/97

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: -531.876+/-686.678 χ^2/NDF : 37.4/26

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

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

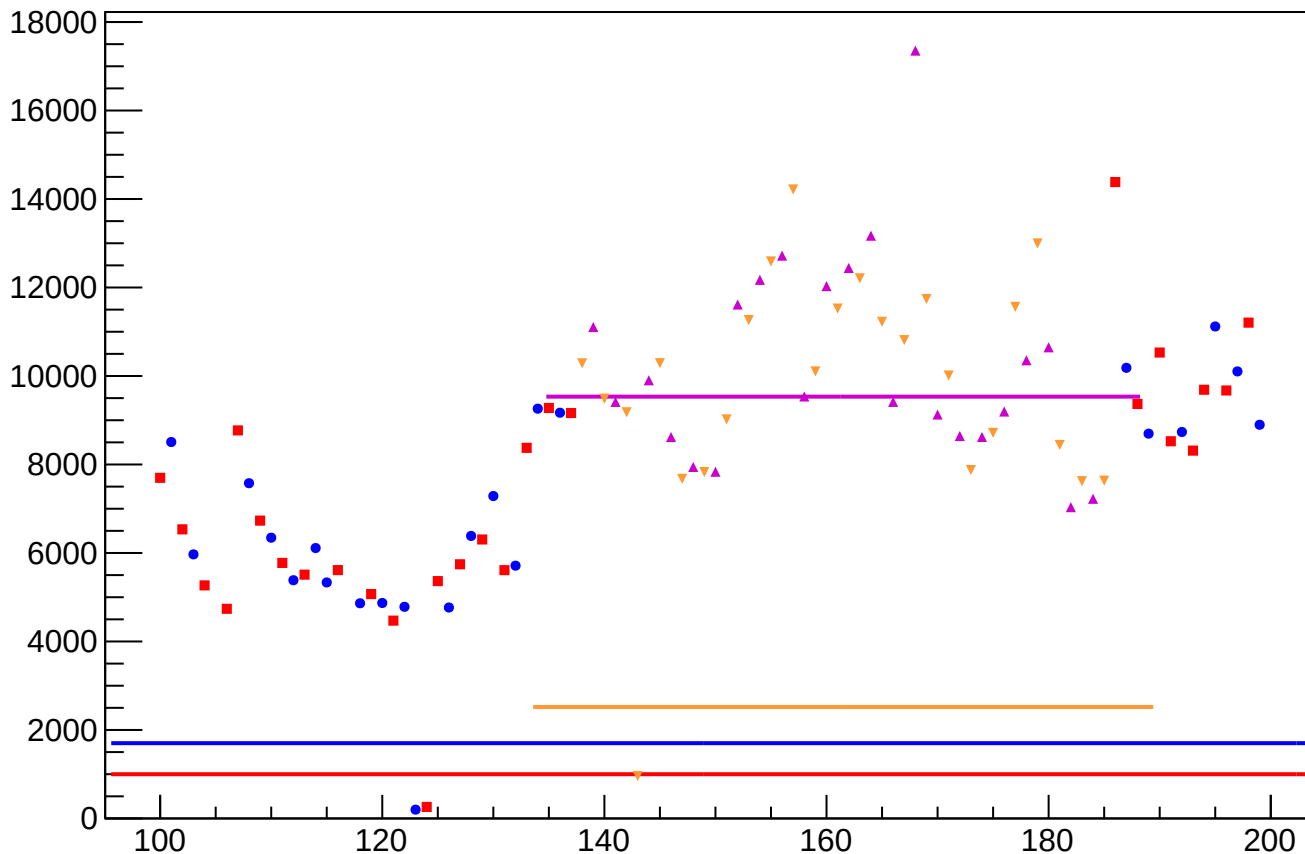
Right: -726.399+/-571.327 χ^2/NDF : 61.3/49

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

Out: -898.547+/-564.801 χ^2/NDF : 70.6/51

All: -921.944+/-484.412 χ^2/NDF : 108.3/97

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1701.572+/-0.728

χ^2/NDF : 15556632.4/22

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right Out: 999.854+/-0.486

χ^2/NDF : 19662990.0/26

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

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

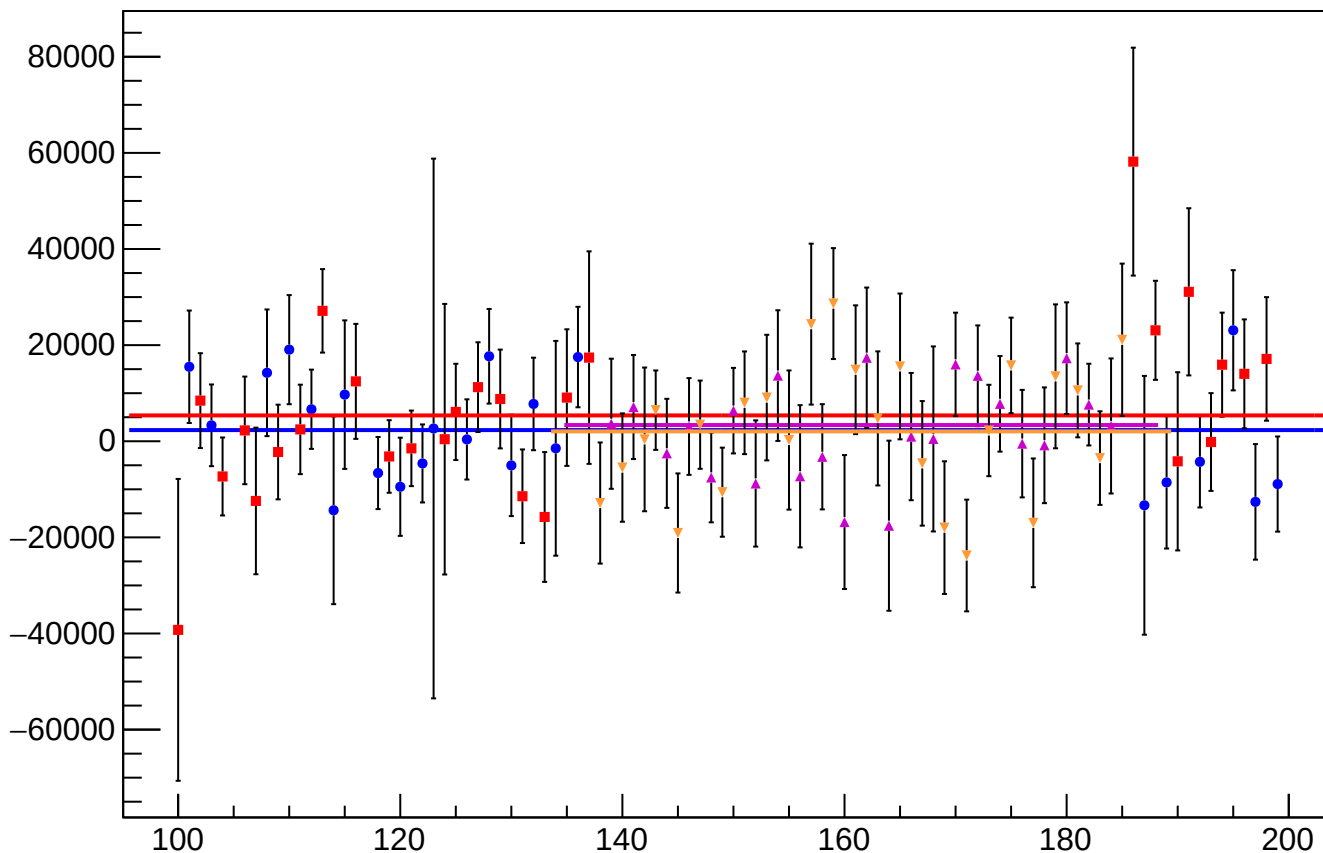
Right: 1215.808+/-0.404 χ^2/NDF : 35862379.9/49

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

Out: 1491.374+/-0.399 χ^2/NDF : 46472980.4/51

All: 1885.031+/-0.343 χ^2/NDF : 85904338.2/95

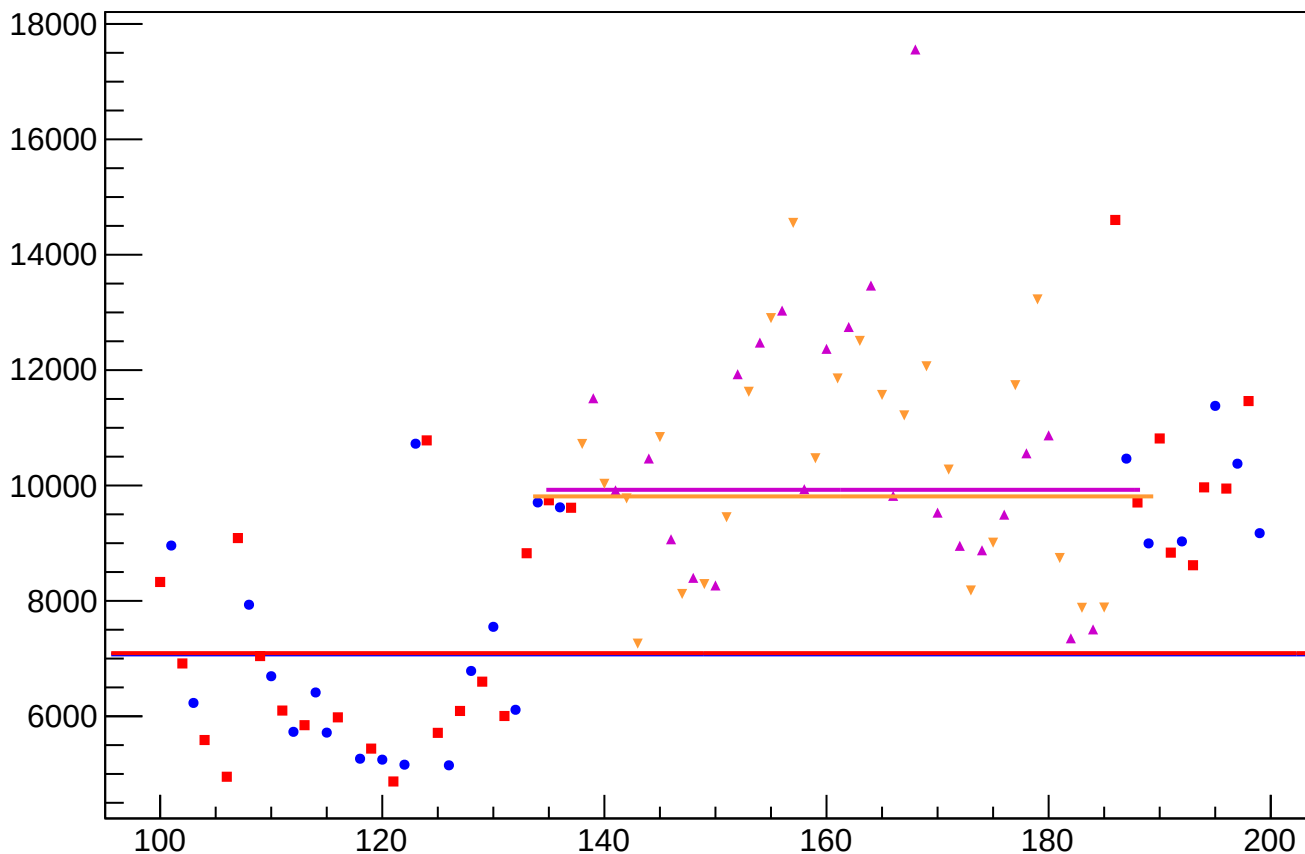
asym_atl2_mean vs Slug, Sign Corrected



Right In: 2322.976+/-2259.372 χ^2/NDF : 21.5/22
 Left Out: 2055.950+/-2333.494 χ^2/NDF :30.7/24
 Right Out: 5377.061+/-2135.839 χ^2/NDF : 34.7/26
 Left In: 3371.931+/-2423.242 χ^2/NDF :13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47
 Right: 3935.790+/-1552.101 χ^2/NDF : 57.2/49
 In: 2810.790+/-1652.515 χ^2/NDF :34.7/45
 Out: 3863.094+/-1575.517 χ^2/NDF :66.6/51
 All: 3362.028+/-1140.308 χ^2/NDF : 101.5/97

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: 7083.850+/-1.097 χ^2/NDF : 3110213.9/49

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: 7094.219+/-1.510

χ^2/NDF : 1744567.7/26

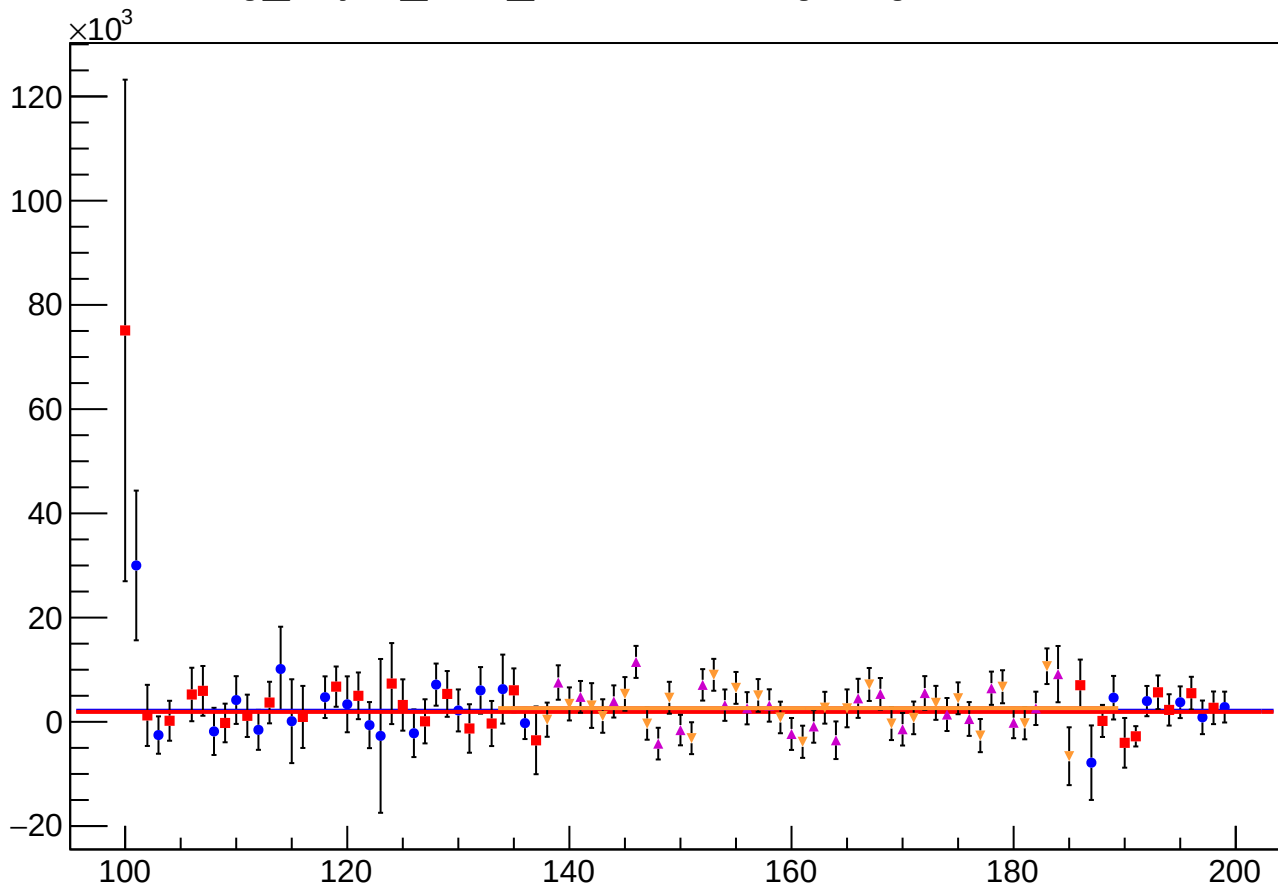
Out: 8332.671+/-1.114 χ^2/NDF : 4433650.5/51

Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

All: 8364.284+/-0.806 χ^2/NDF : 8495589.9/97

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2131.587 $\pm$ 878.645 χ^2/NDF : 16.8/22

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

Right Out: 1906.940 $\pm$ 760.416 χ^2/NDF : 21.5/26

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

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

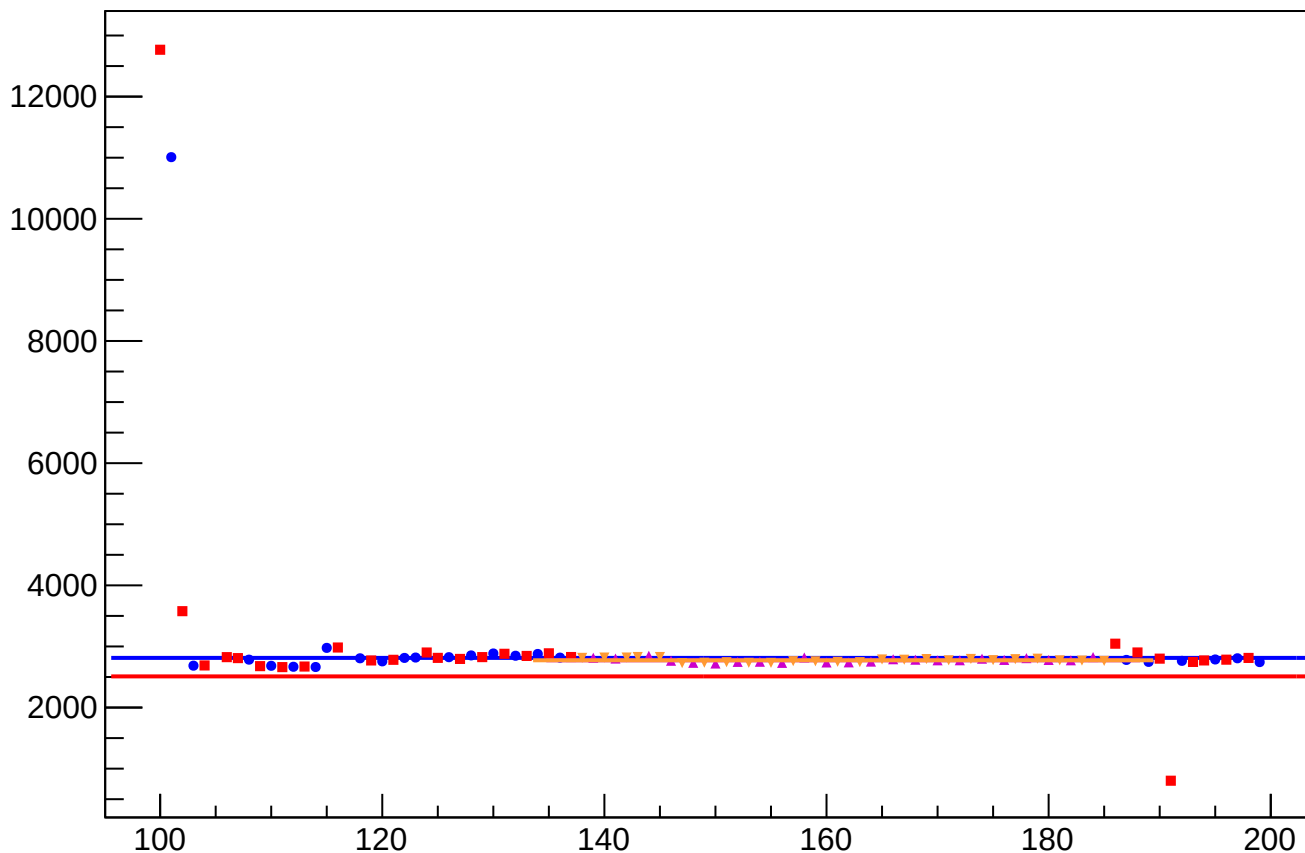
Right: 2003.143 $\pm$ 574.987 χ^2/NDF : 38.3/49

In: 2454.103 $\pm$ 530.034 χ^2/NDF : 52.2/45

Out: 2330.228 $\pm$ 492.379 χ^2/NDF : 57.1/51

All: 2387.609 $\pm$ 360.743 χ^2/NDF : 109.3/97

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: 2510.015+/-0.538 χ^2/NDF : 1953530.6/26

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

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

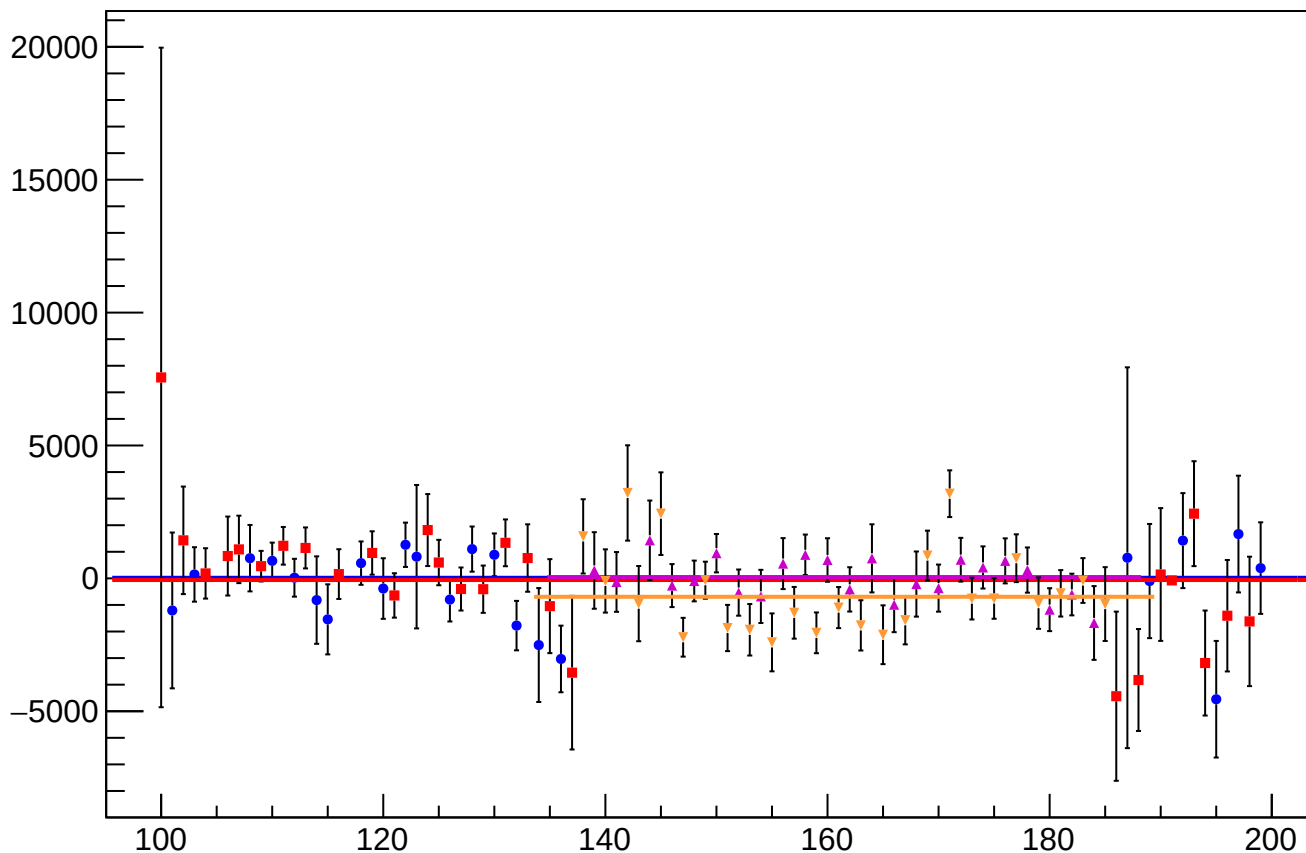
Right: 2639.720+/-0.407 χ^2/NDF : 2753040.7/49

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

Out: 2663.152+/-0.348 χ^2/NDF :2097820.7/51

All: 2721.065+/-0.255 χ^2/NDF : 2828657.8/97

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: 22.208+/-233.682 χ^2/NDF : 26.4/22

Left Out: -692.808+/-187.297 χ^2/NDF :56.0/24

Right Out: -62.897+/-37.901 χ^2/NDF : 29.2/26

Left In: 49.244+/-189.190 χ^2/NDF :13.6/22

Left: -325.512+/-133.103 χ^2/NDF : 77.4/47

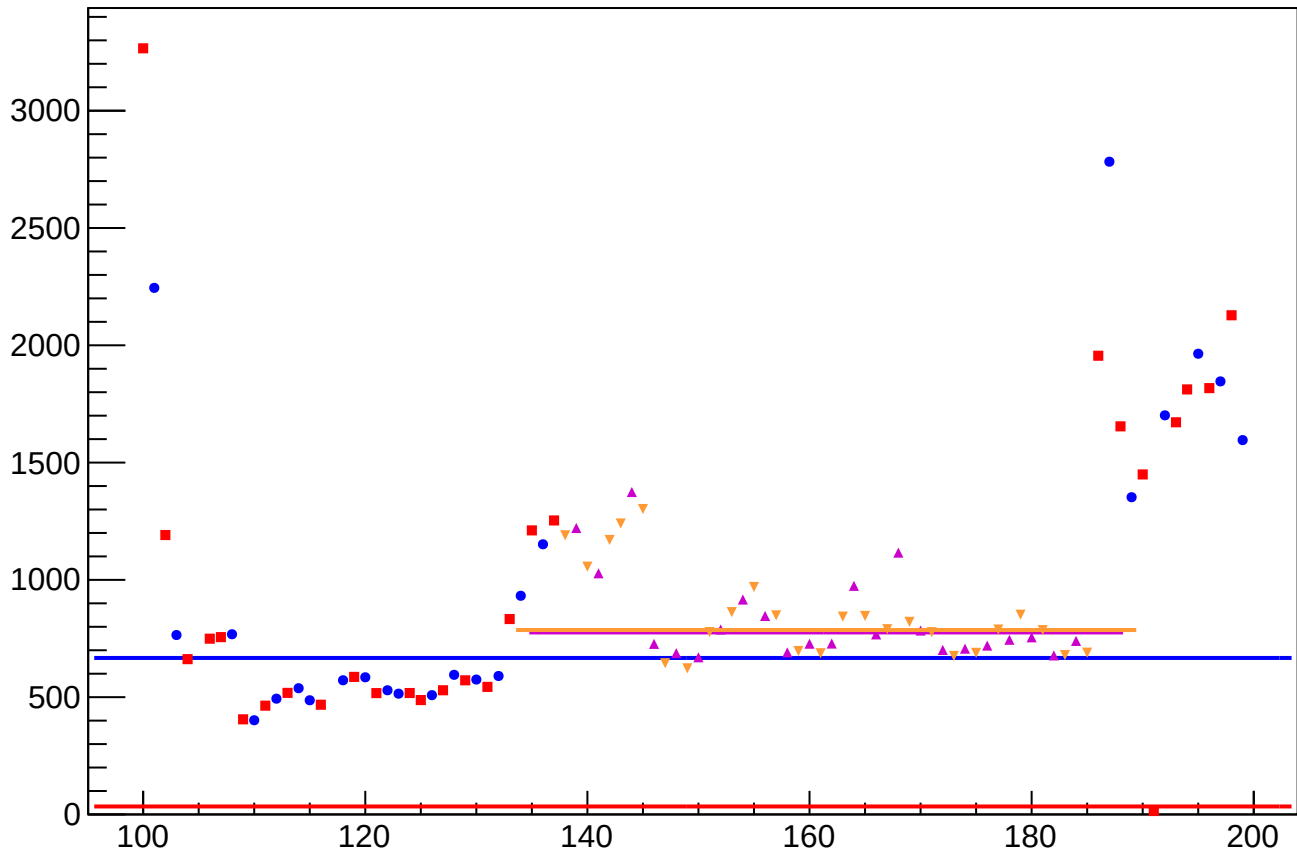
Right: -60.716+/-37.412 χ^2/NDF : 55.7/49

In: 38.539+/-147.041 χ^2/NDF :40.0/45

Out: -87.676+/-37.148 χ^2/NDF :96.1/51

All: -80.103+/-36.016 χ^2/NDF : 136.8/97

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: 34.045+/-0.027 χ^2/NDF : 21382842.9/26

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

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

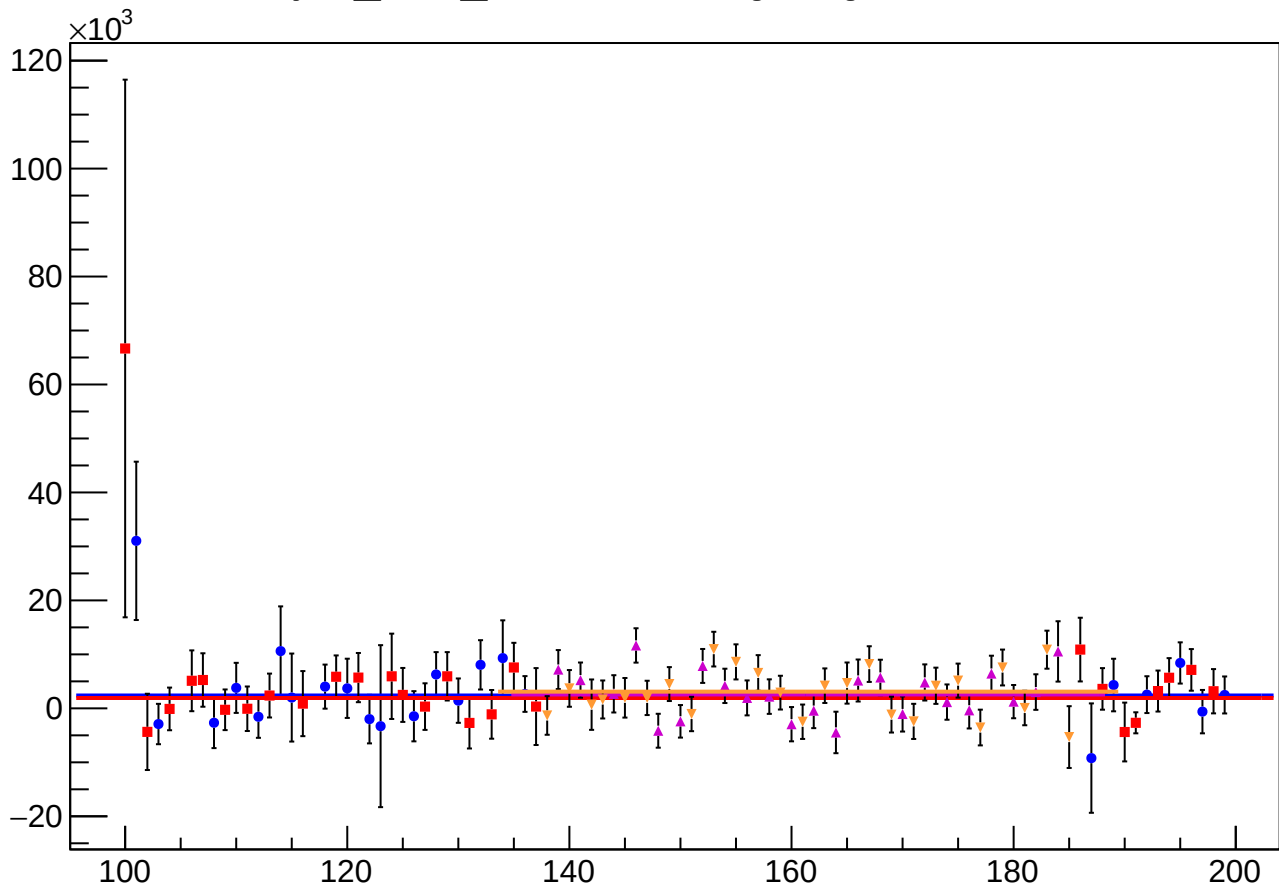
Right: 50.272+/-0.026 χ^2/NDF : 40226396.8/49

In: 732.866+/-0.104 χ^2/NDF :5857502.1/45

Out: 63.631+/-0.026 χ^2/NDF :53615254.3/51

All: 103.782+/-0.025 χ^2/NDF : 98416647.8/97

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: 1919.259 $\pm$ 824.161 χ^2 /NDF: 22.5/26

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

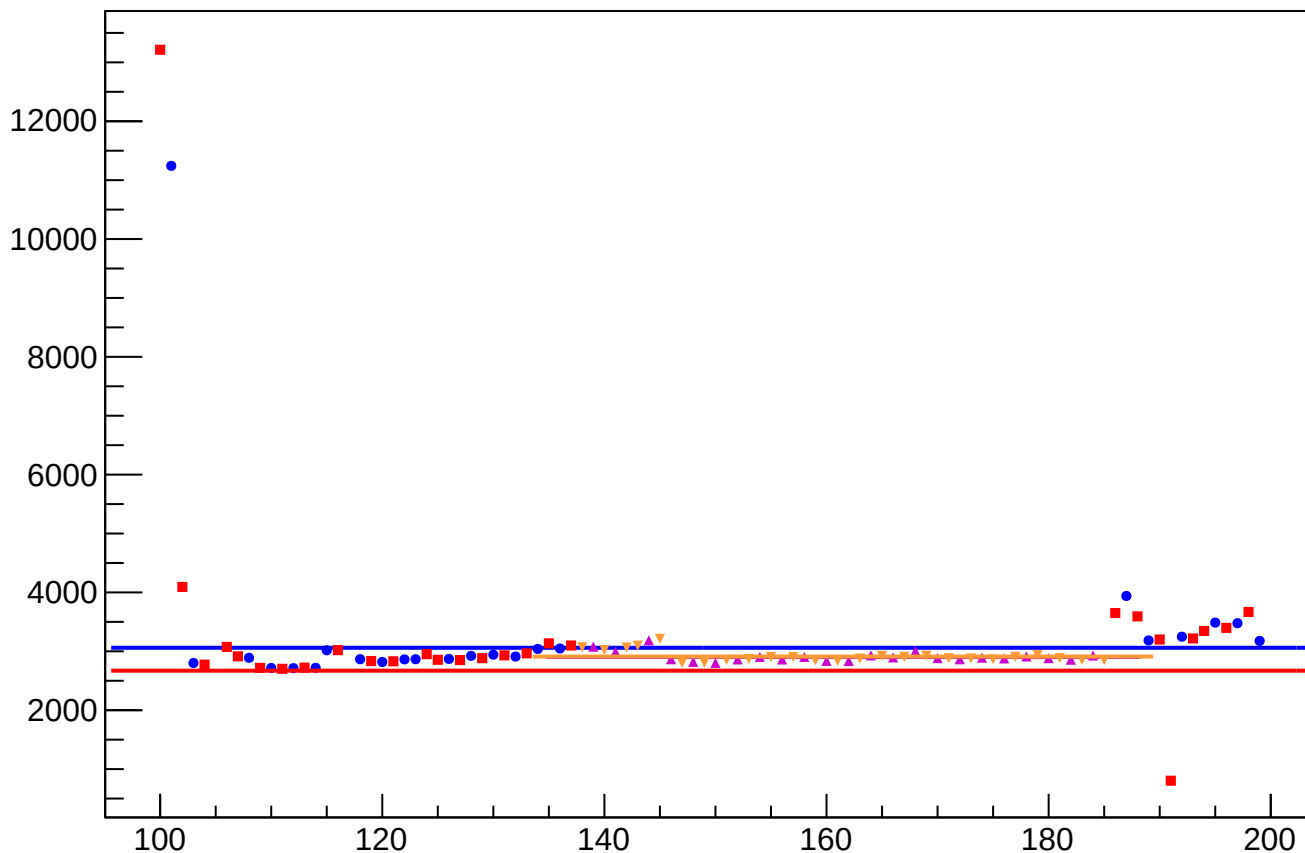
Right: 2115.657 $\pm$ 625.034 χ^2 /NDF: 41.7/49

In: 2507.085 $\pm$ 563.163 χ^2 /NDF:54.8/45

Out: 2619.927 $\pm$ 523.828 χ^2 /NDF:62.4/51

All: 2567.584 $\pm$ 383.555 χ^2 /NDF: 117.2/97

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: 2671.349+/-0.583 χ^2/NDF : 2582915.1/26

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

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

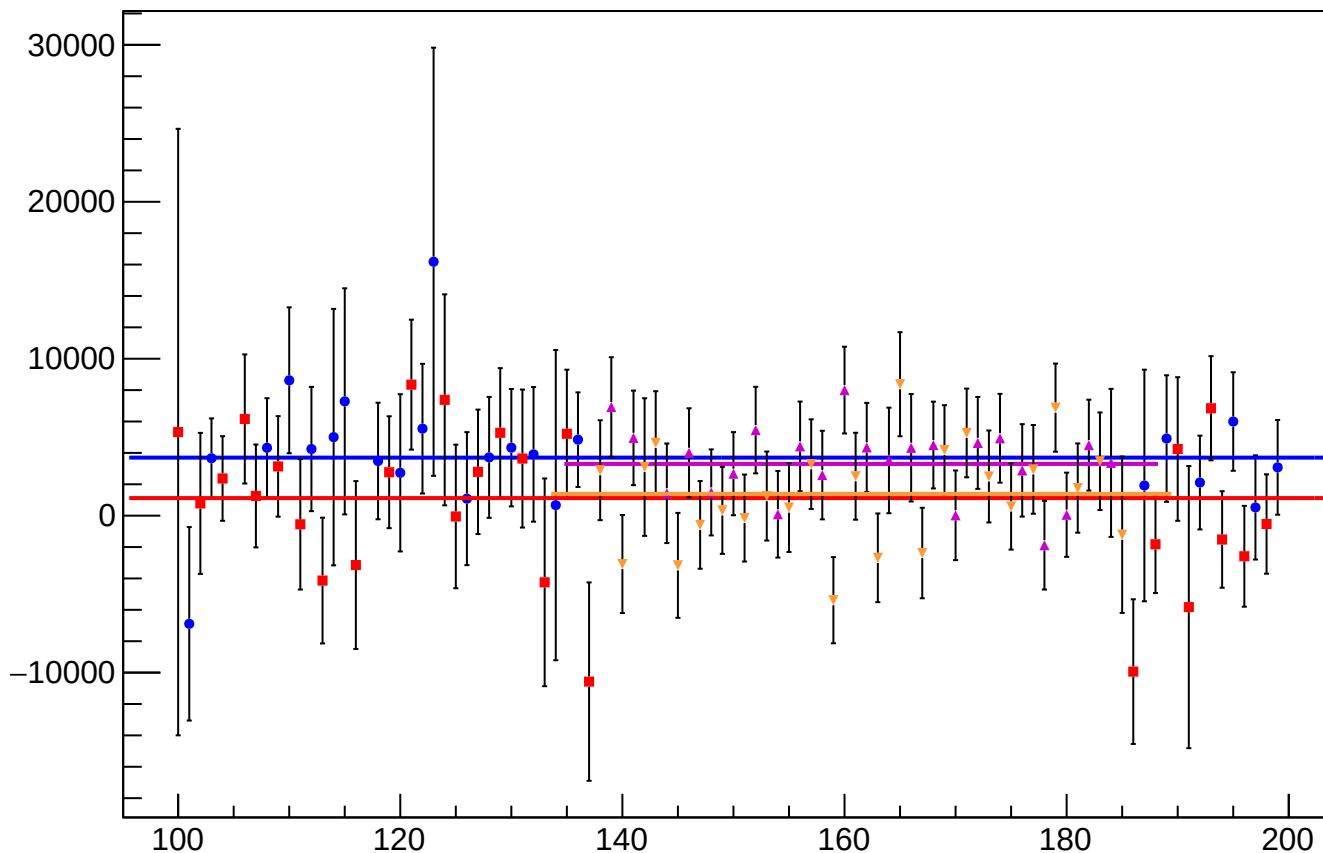
Right: 2836.485+/-0.442 χ^2/NDF : 3529992.9/49

In: 2957.434+/-0.398 χ^2/NDF : 821874.0/45

Out: 2814.322+/-0.370 χ^2/NDF : 2720542.5/51

All: 2880.706+/-0.271 χ^2/NDF : 3611662.7/97

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3698.181 $\pm$ 825.985 χ^2 /NDF: 8.1/22

Left Out: 1390.275 $\pm$ 596.516 χ^2 /NDF:29.2/24

Right Out: 1120.957 $\pm$ 769.731 χ^2 /NDF: 28.5/26

Left In: 3295.367 $\pm$ 609.991 χ^2 /NDF:14.9/22

Left: 2321.546 $\pm$ 426.485 χ^2 /NDF: 49.0/47

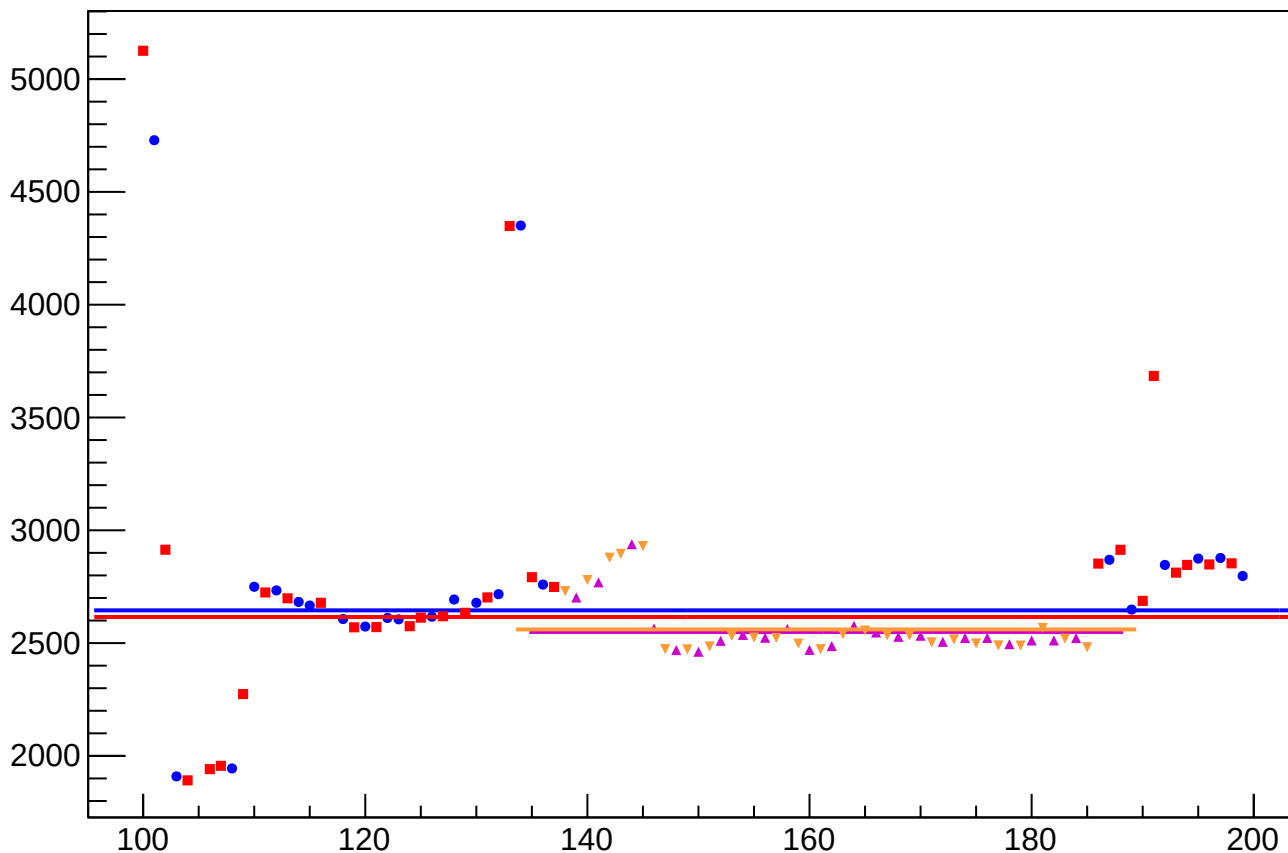
Right: 2318.825 $\pm$ 563.120 χ^2 /NDF: 41.8/49

In: 3437.525 $\pm$ 490.688 χ^2 /NDF:23.1/45

Out: 1289.220 $\pm$ 471.503 χ^2 /NDF:57.8/51

All: 2320.554 $\pm$ 339.983 χ^2 /NDF: 90.8/97

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2645.063+/-0.584 χ^2/NDF : 598215.8/22

Left Out: 2560.531+/-0.422 χ^2/NDF : 86771.4/24

Right Out: 2615.739+/-0.544 χ^2/NDF : 582746.5/26

Left In: 2548.870+/-0.431 χ^2/NDF : 55266.2/22

Left: 2554.831+/-0.302 χ^2/NDF : 142411.2/47

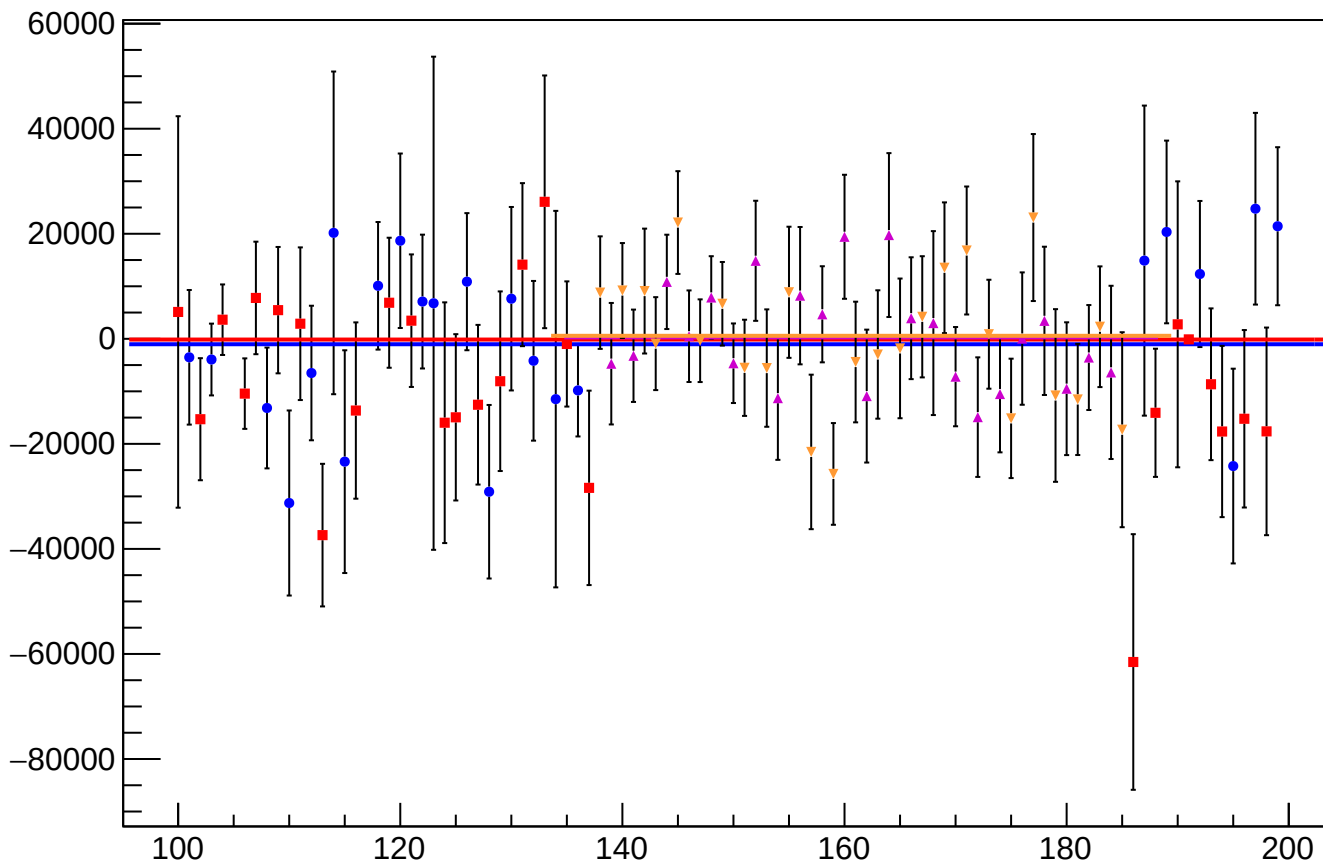
Right: 2629.369+/-0.398 χ^2/NDF : 1182311.4/49

In: 2582.818+/-0.347 χ^2/NDF : 671034.5/45

Out: 2581.247+/-0.333 χ^2/NDF : 675946.0/51

All: 2582.001+/-0.240 χ^2/NDF : 1346991.2/97

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: -139.937 $\pm$ 195.004 χ^2/NDF : 31.2/26

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

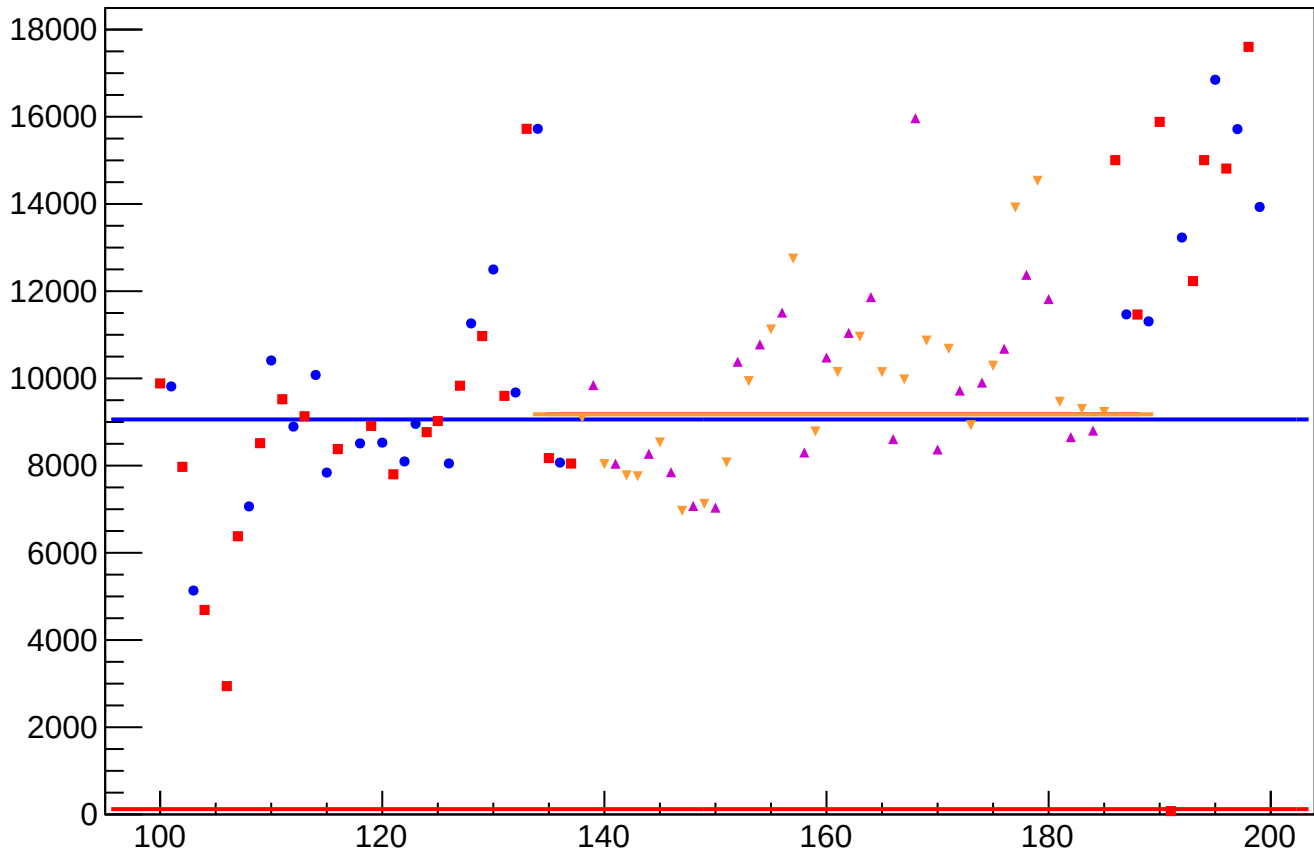
Right: -143.847 $\pm$ 194.577 χ^2/NDF : 53.6/49

In: -206.015 $\pm$ 1783.570 χ^2/NDF : 38.2/45

Out: -134.304 $\pm$ 194.232 χ^2/NDF : 59.5/51

All: -135.145 $\pm$ 193.090 χ^2/NDF : 97.7/97

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9058.590+/-2.080

χ^2/NDF : 2043988.5/22

Left Out: 9177.688+/-1.545

χ^2/NDF :1176195.8/24

Right Out: 122.172+/-0.138

χ^2/NDF : 22742330.4/26

Left In: 9181.254+/-1.586

χ^2/NDF :1236469.7/22

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Right: 161.270+/-0.138

χ^2/NDF : 43162649.5/49

In: 9136.162+/-1.261

χ^2/NDF :3282657.4/45

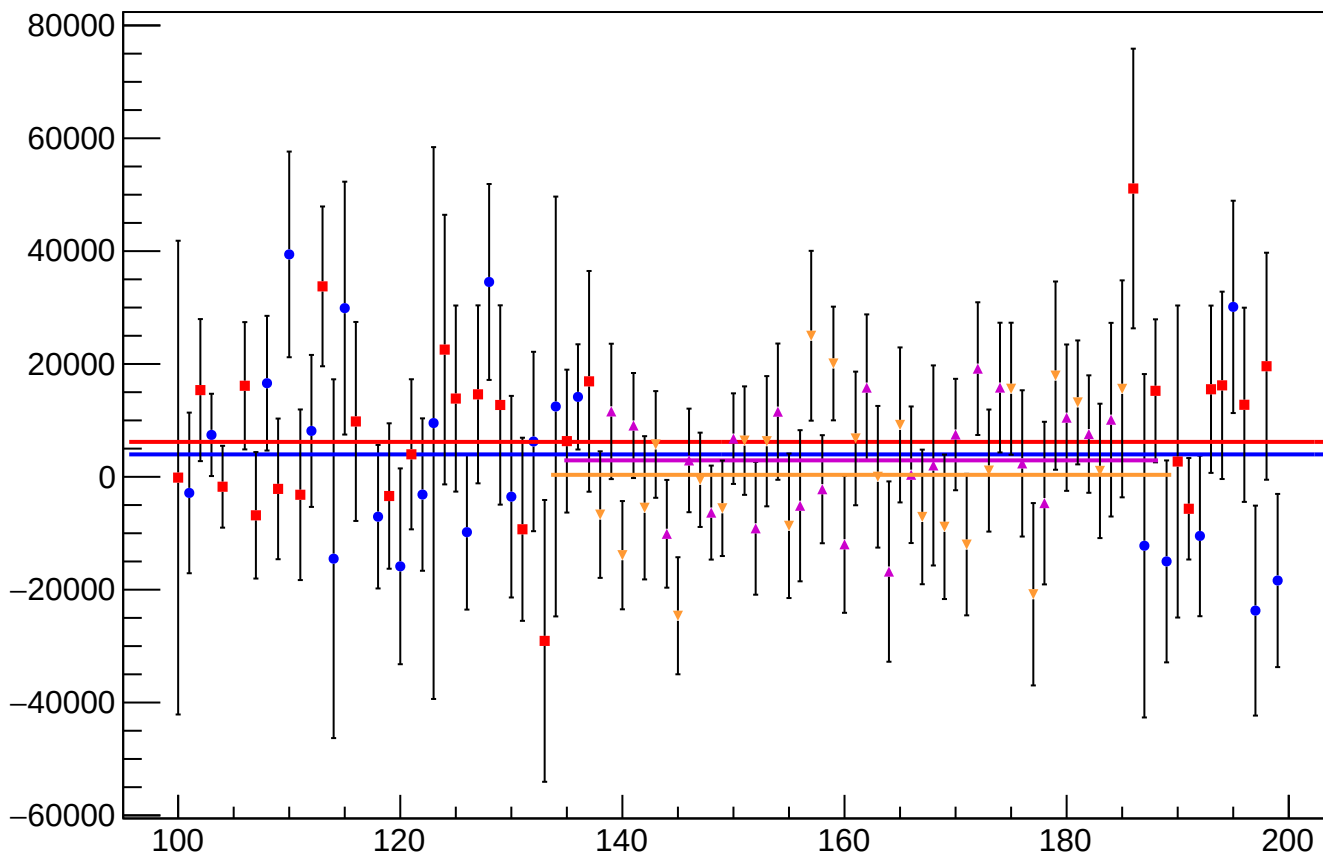
Out: 193.770+/-0.137

χ^2/NDF :58018509.6/51

All: 298.577+/-0.137

χ^2/NDF : 110987480.3/5

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: 6191.988 $\pm$ 2723.013 χ^2 /NDF: 20.3/26

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

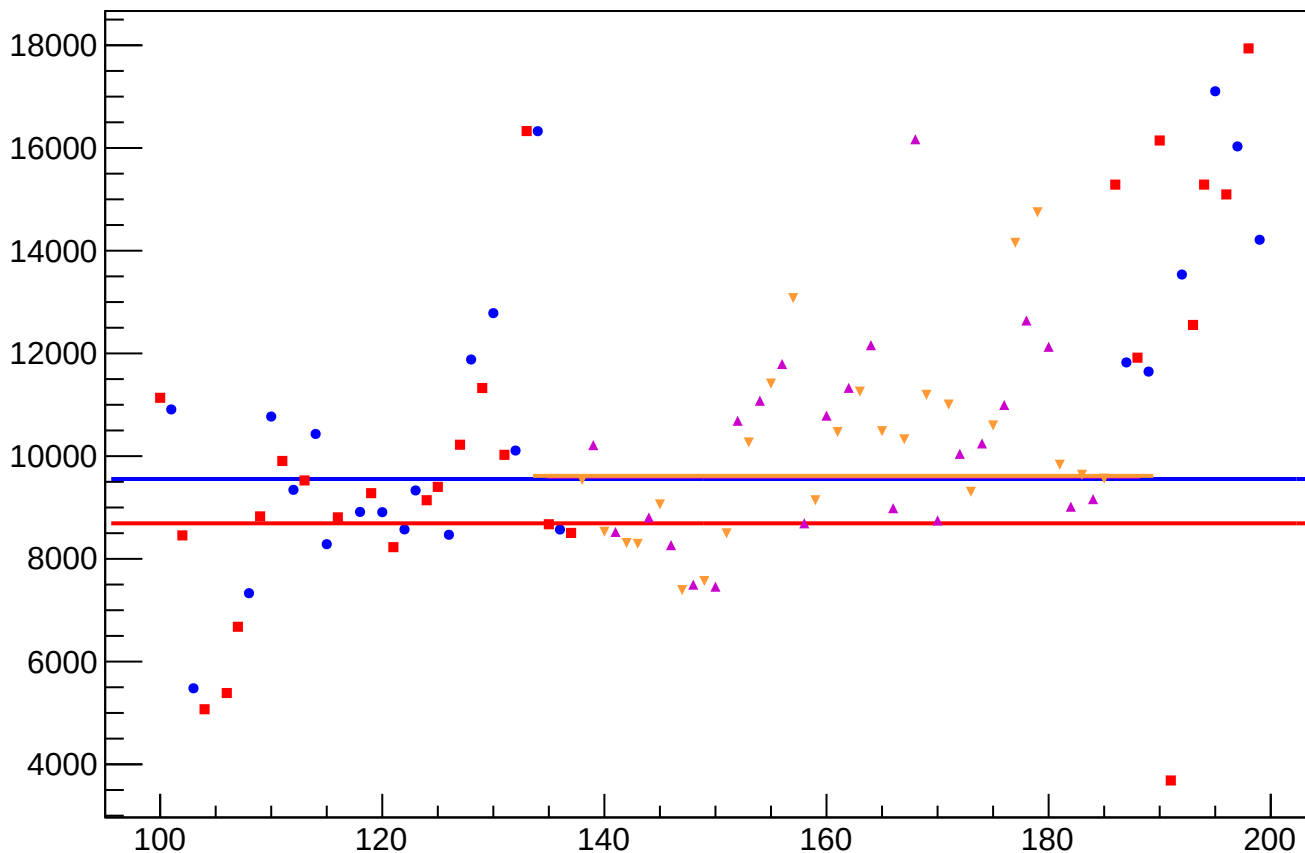
Right: 5223.777 $\pm$ 2043.027 χ^2 /NDF: 44.4/49

In: 3303.755 $\pm$ 1864.737 χ^2 /NDF:38.7/45

Out: 2763.162 $\pm$ 1748.881 χ^2 /NDF:49.3/51

All: 3016.144 $\pm$ 1275.638 χ^2 /NDF: 88.0/97

asym_atr2_rms vs Slug, Sign Corrected



Right In: 9555.092+/-2.185

χ^2/NDF : 1896196.7/22

Left: 9607.606+/-1.155

χ^2/NDF : 2093896.0/47

Left Out: 9616.245+/-1.613

χ^2/NDF : 1011665.6/24

Right: 9069.227+/-1.445

χ^2/NDF : 5208917.0/49

Right Out: 8692.007+/-1.925

χ^2/NDF : 3224897.0/26

In: 9582.714+/-1.319

χ^2/NDF : 2978619.6/45

Out: 9234.984+/-1.237

χ^2/NDF : 4371934.0/51

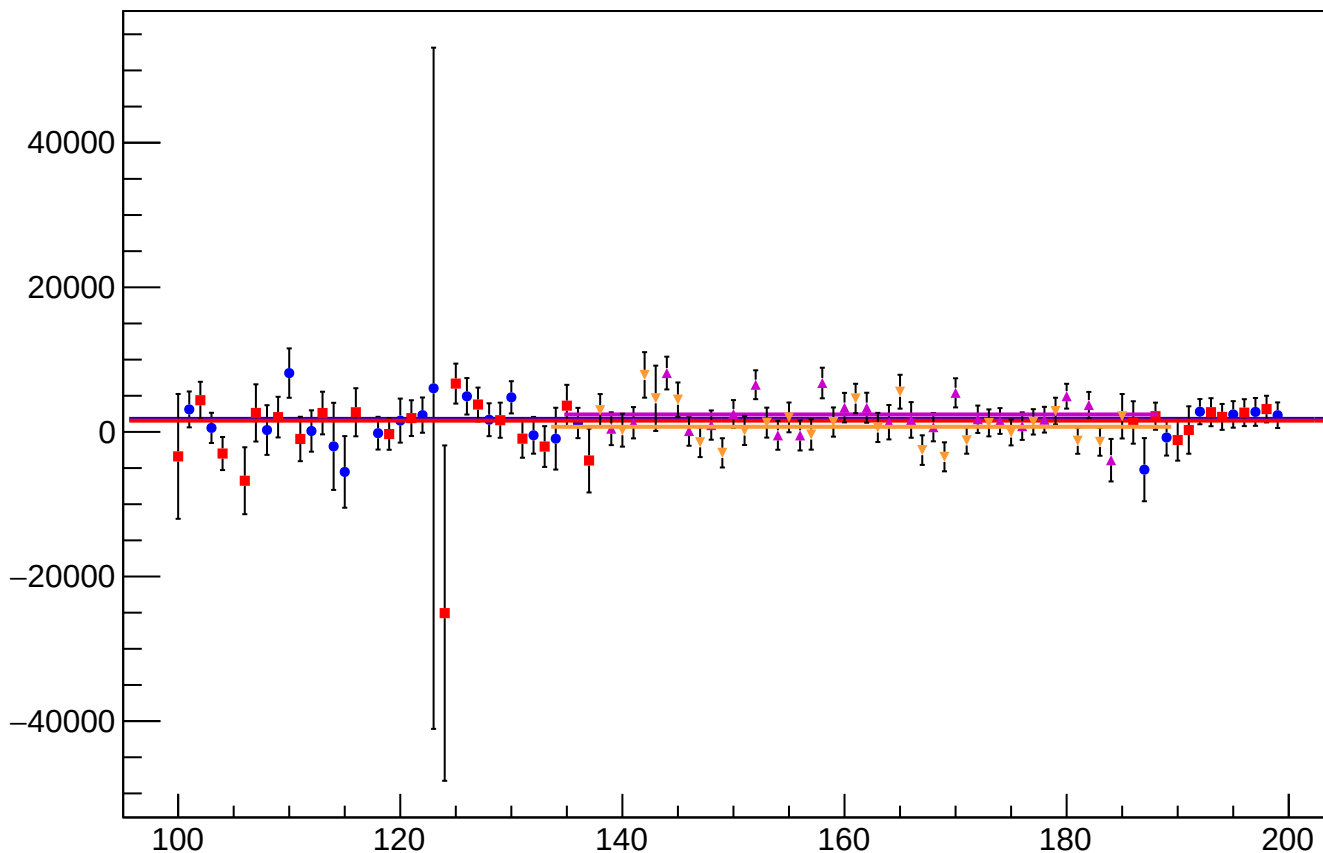
Left In: 9598.531+/-1.654

χ^2/NDF : 1082171.6/22

All: 9397.709+/-0.902

χ^2/NDF : 7387555.2/97

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1803.512 $\pm$ 524.070 χ^2 /NDF: 17.1/22

Left Out: 709.722 $\pm$ 417.377 χ^2 /NDF:34.8/24

Right Out: 1563.254 $\pm$ 500.957 χ^2 /NDF: 23.5/26

Left In: 2414.749 $\pm$ 423.472 χ^2 /NDF:34.0/22

Left: 1549.879 $\pm$ 297.262 χ^2 /NDF: 77.0/47

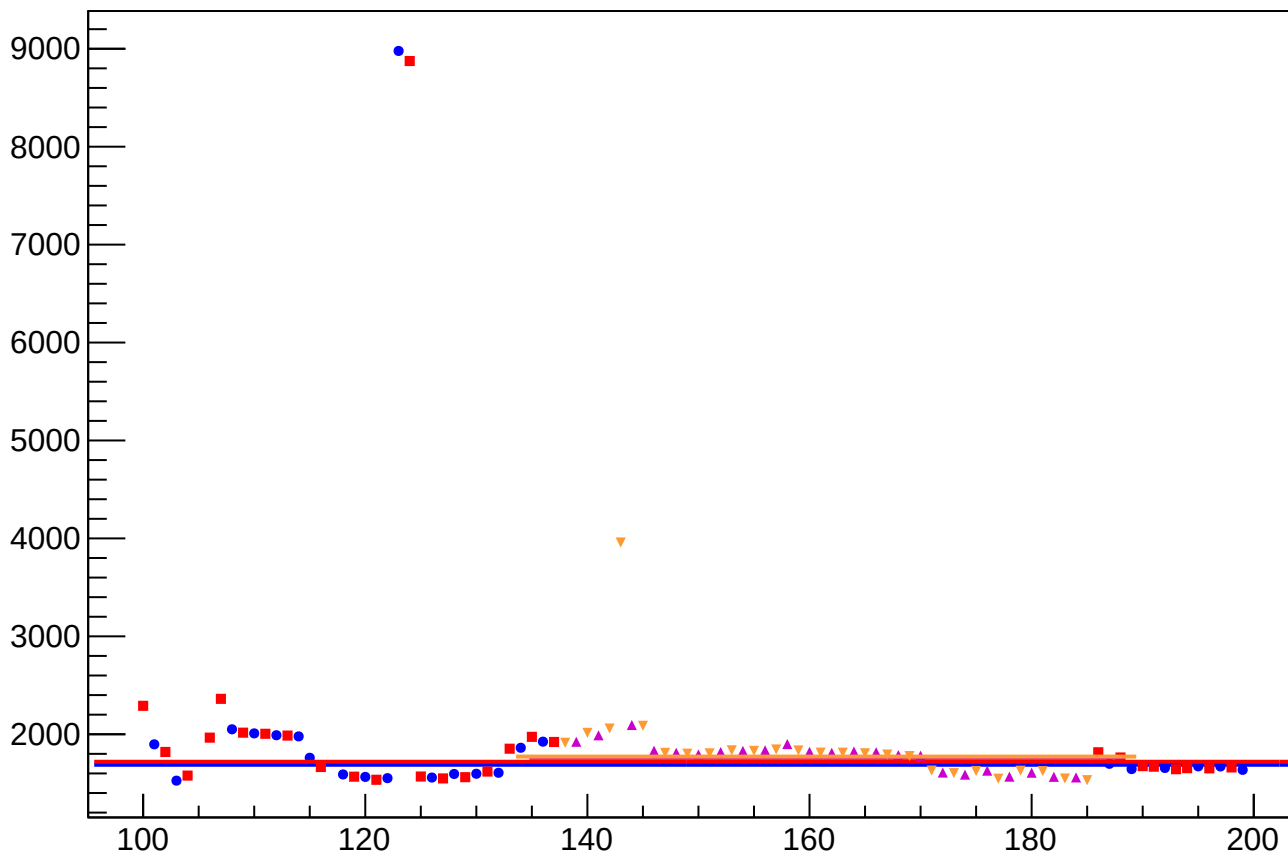
Right: 1677.968 $\pm$ 362.125 χ^2 /NDF: 40.6/49

In: 2173.301 $\pm$ 329.379 χ^2 /NDF:51.9/45

Out: 1059.445 $\pm$ 320.665 χ^2 /NDF:60.0/51

All: 1601.444 $\pm$ 229.764 χ^2 /NDF: 117.7/97

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: 1719.345+/-0.353 χ^2/NDF : 414626.7/26

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

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

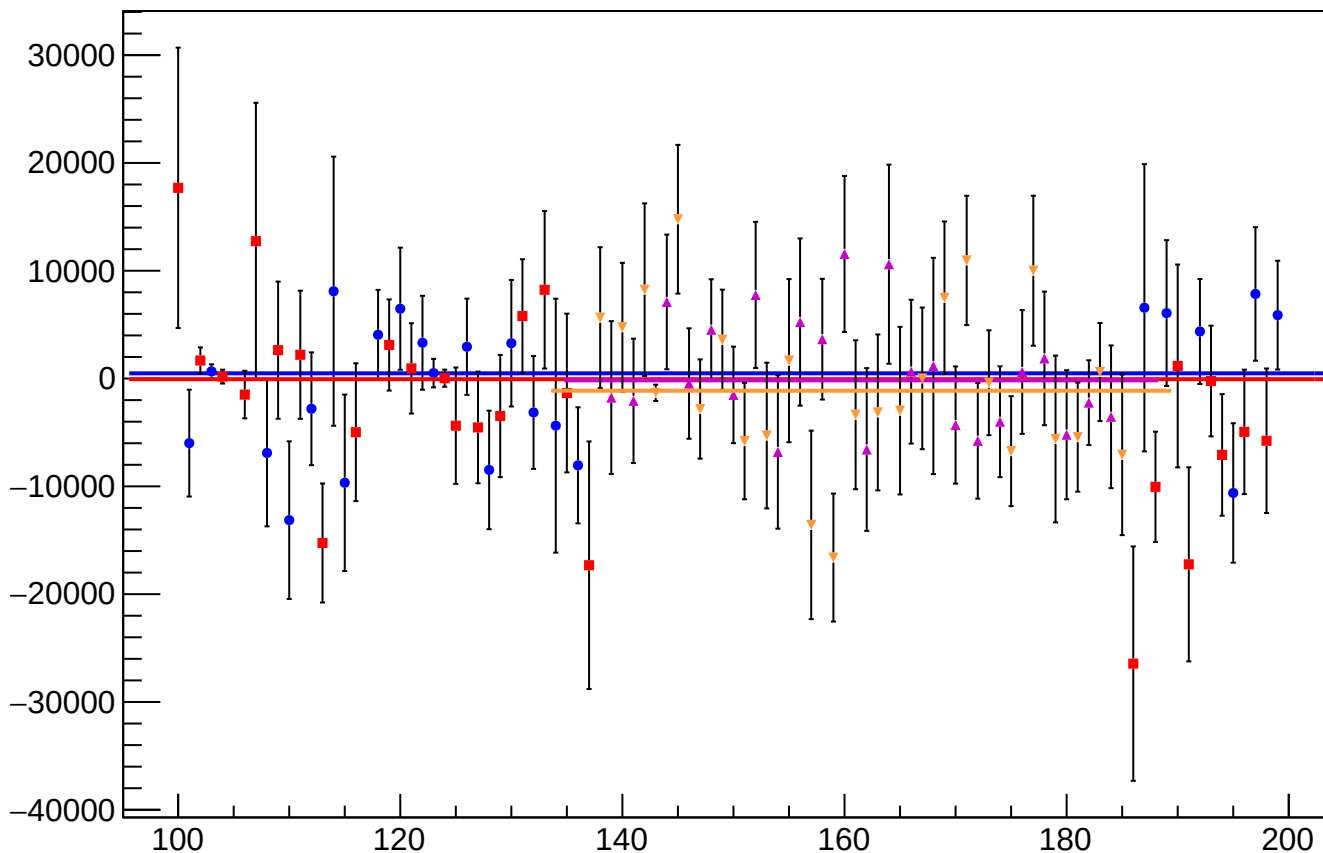
Right: 1704.686+/-0.256 χ^2/NDF : 619110.1/49

In: 1731.539+/-0.233 χ^2/NDF : 437992.1/45

Out: 1750.389+/-0.227 χ^2/NDF : 1130202.7/51

All: 1741.226+/-0.162 χ^2/NDF : 1571560.9/97

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 484.753+/-528.526 χ^2/NDF : 24.4/22

Left Out: -1129.807+/-647.600 χ^2/NDF :31.5/24

Right Out: -57.118+/-426.048 χ^2/NDF : 37.5/26

Left In: -168.182+/-1232.411 χ^2/NDF :14.2/22

Left: -921.734+/-573.272 χ^2/NDF : 46.1/47

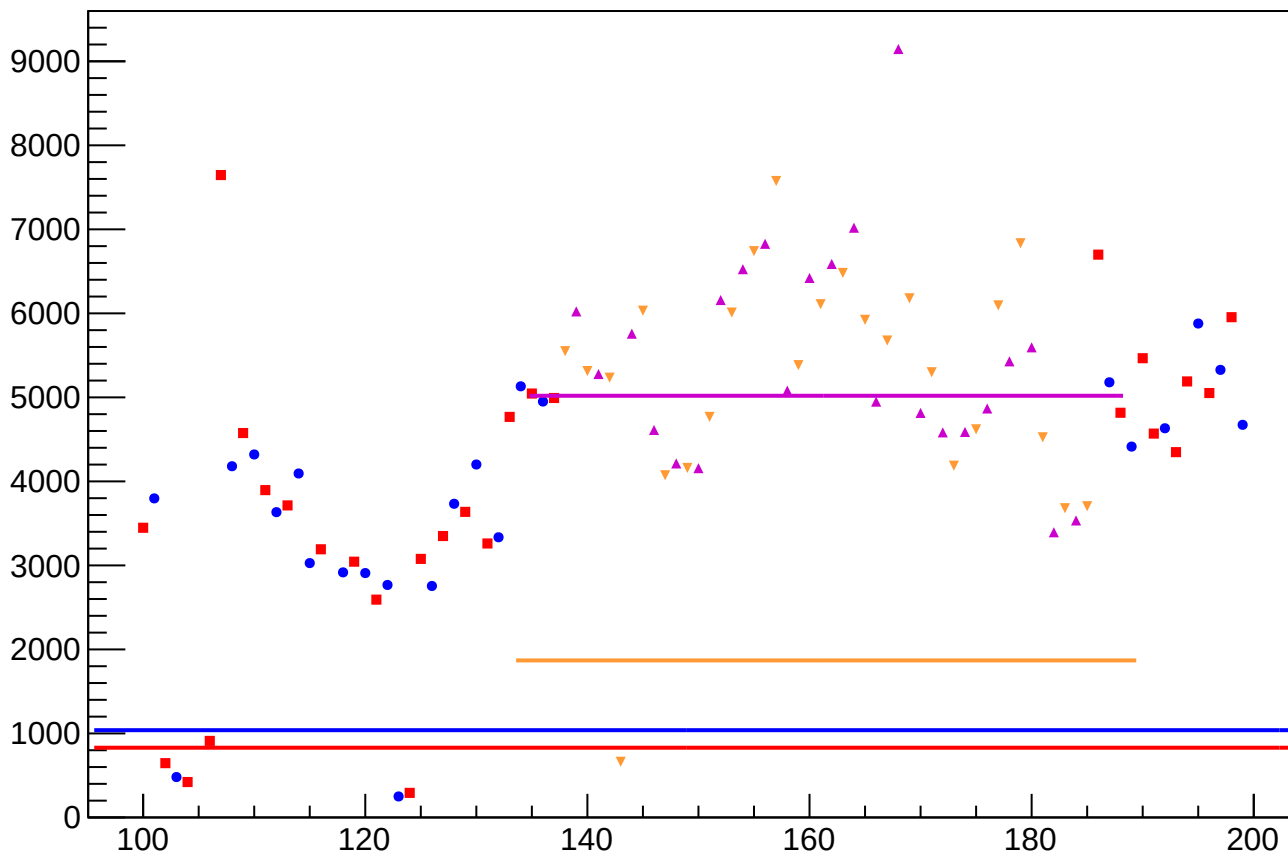
Right: 156.308+/-331.697 χ^2/NDF : 62.5/49

In: 383.322+/-485.742 χ^2/NDF :38.8/45

Out: -381.149+/-355.929 χ^2/NDF :70.9/51

All: -114.081+/-287.102 χ^2/NDF : 111.3/97

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1038.738+/-0.374

χ^2/NDF : 13248487.6/22

Left Out: 1868.983+/-0.458

χ^2/NDF : 19852416.6/24

Right Out: 830.092+/-0.301

χ^2/NDF : 15608498.9/26

Left In: 5019.114+/-0.871

χ^2/NDF : 1569031.9/22

Left: 2550.597+/-0.405

χ^2/NDF : 31661059.7/47

Right: 912.271+/-0.235

χ^2/NDF : 29045908.7/49

In: 1657.074+/-0.343

χ^2/NDF : 32439132.9/45

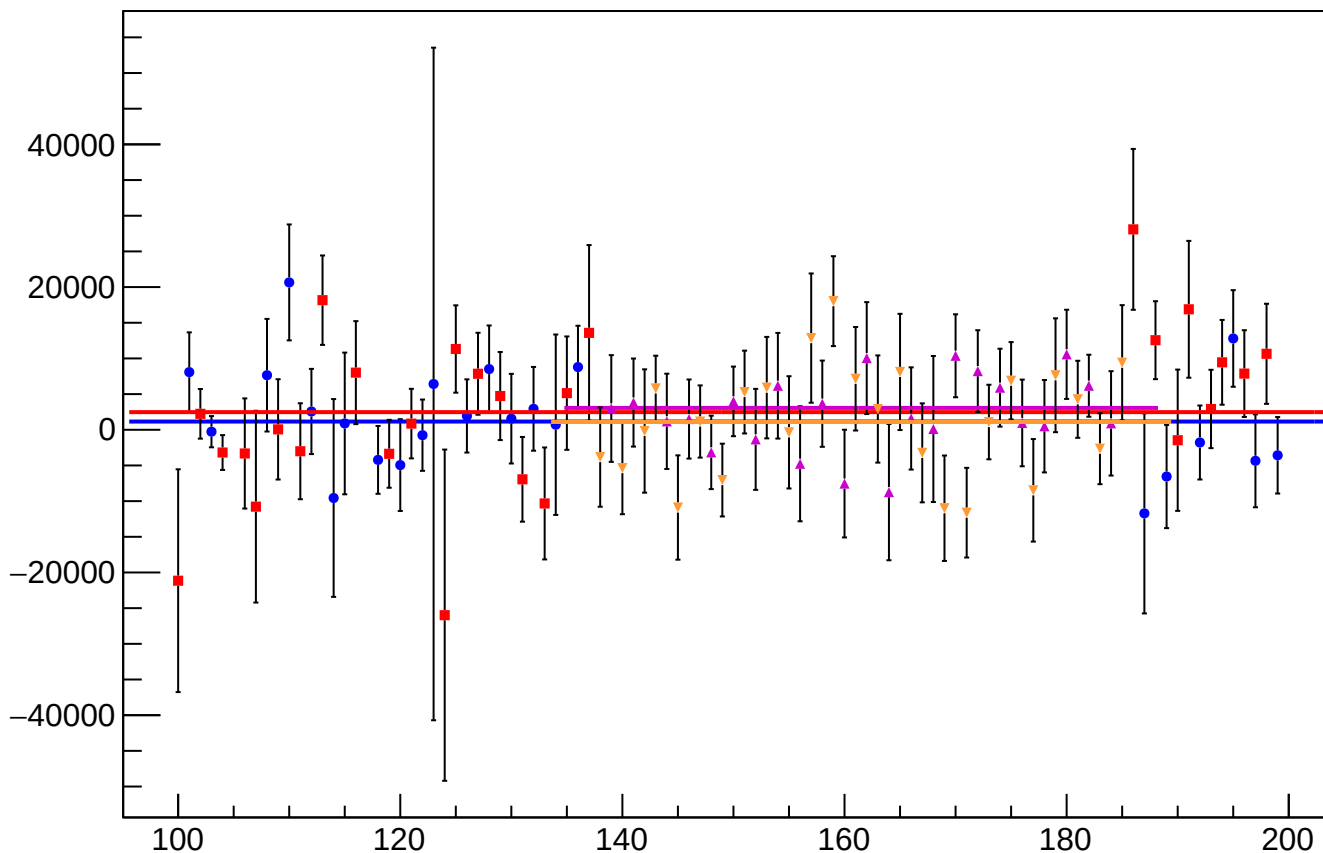
Out: 1143.914+/-0.252

χ^2/NDF : 39053161.8/51

All: 1323.187+/-0.203

χ^2/NDF : 72944642.3/95

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: 2473.314+/-1136.807 χ^2/NDF : 43.7/26

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

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

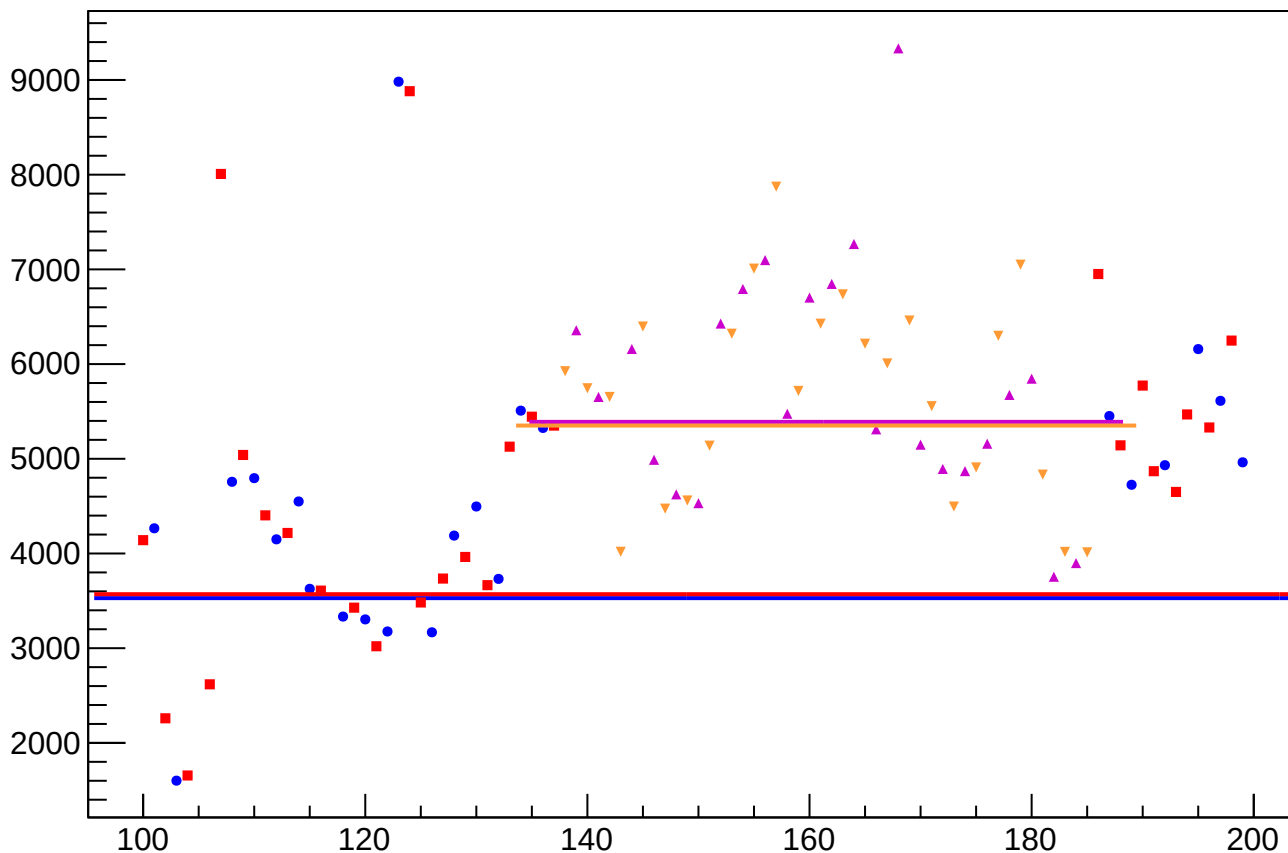
Right: 1836.654+/-817.808 χ^2/NDF : 65.8/49

In: 2001.781+/-878.102 χ^2/NDF : 35.2/45

Out: 1861.563+/-847.954 χ^2/NDF : 76.3/51

All: 1929.224+/-609.974 χ^2/NDF : 111.5/97

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3528.648 $\pm$ 0.833

χ^2 /NDF: 2971698.5/22

Left: 5369.587 $\pm$ 0.648 χ^2 /NDF: 2552263.0/47

Right: 3550.420 $\pm$ 0.575 χ^2 /NDF: 6507324.6/49

Left Out: 5350.804 $\pm$ 0.900

χ^2 /NDF: 1241497.9/24

In: 4354.508 $\pm$ 0.621 χ^2 /NDF: 6499144.8/45

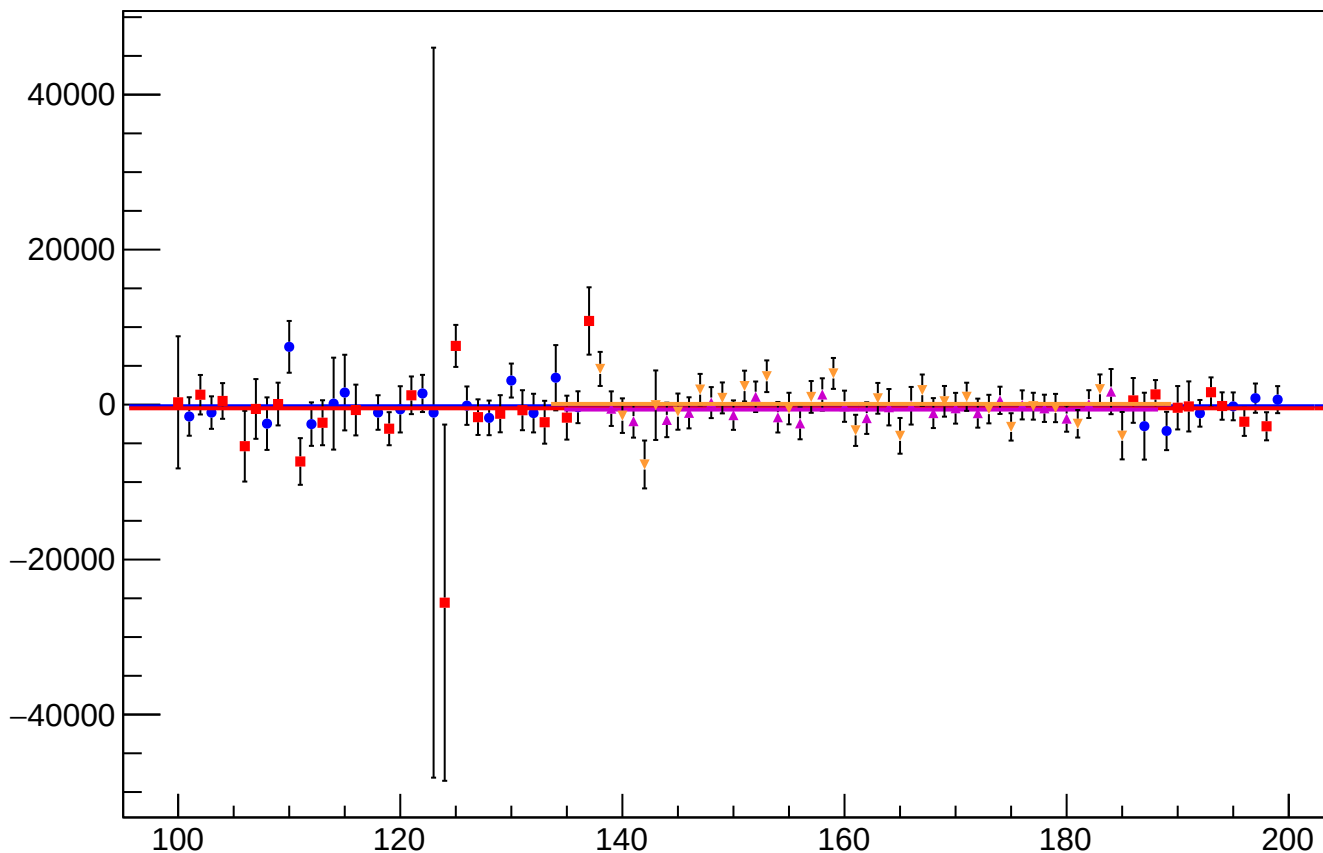
Right Out: 3570.260 $\pm$ 0.795 χ^2 /NDF: 3534319.0/26

Out: 4350.114 $\pm$ 0.596 χ^2 /NDF: 6974429.8/51

Left In: 5389.724 $\pm$ 0.932 χ^2 /NDF: 1309863.0/22

All: 4352.220 $\pm$ 0.430 χ^2 /NDF: 13473600.7/9

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -213.006 $\pm$ 516.498 χ^2 /NDF: 14.0/22

Left Out: 86.214 $\pm$ 411.530 χ^2 /NDF:36.0/24

Right Out: -479.874 $\pm$ 493.594 χ^2 /NDF: 31.9/26

Left In: -640.235 $\pm$ 417.645 χ^2 /NDF:6.2/22

Left: -271.653 $\pm$ 293.134 χ^2 /NDF: 43.7/47

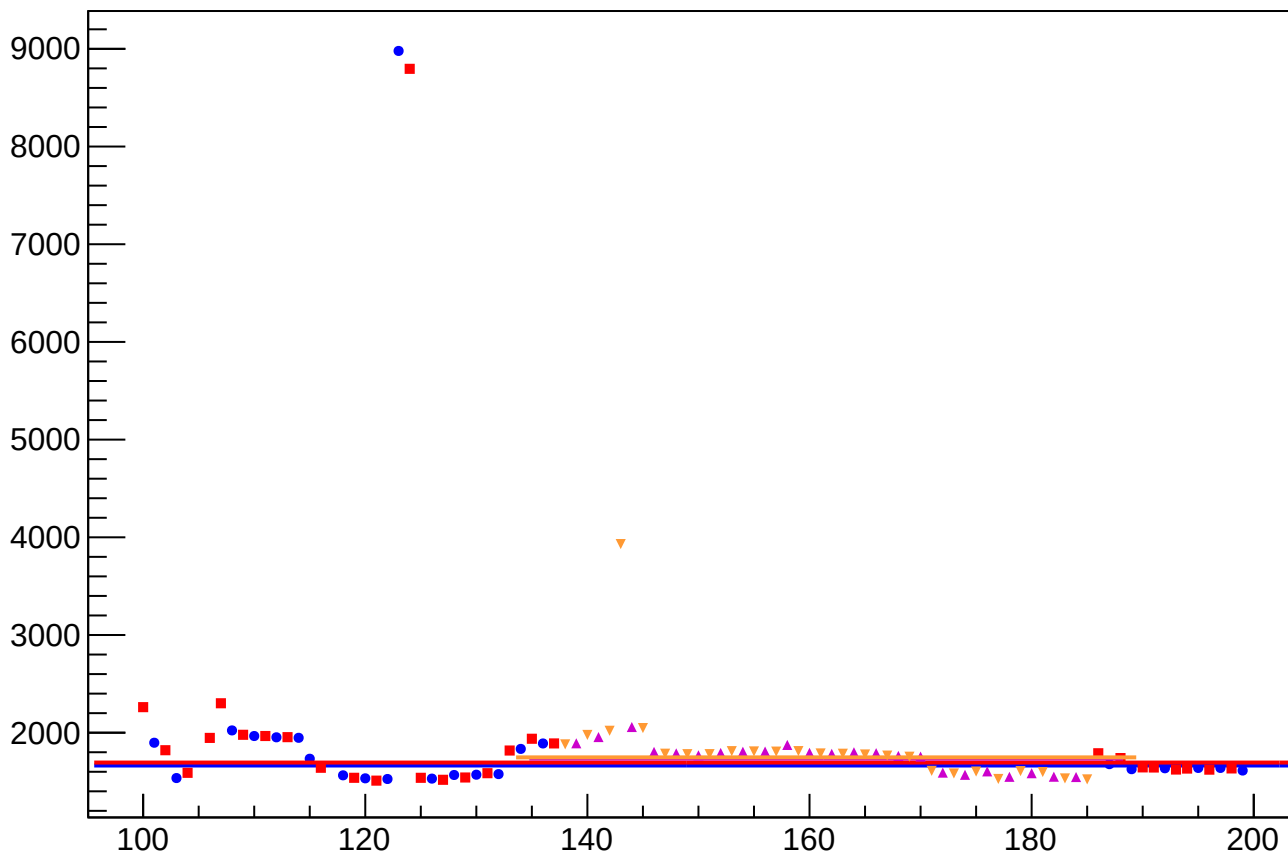
Right: -352.488 $\pm$ 356.846 χ^2 /NDF: 46.1/49

In: -471.330 $\pm$ 324.758 χ^2 /NDF:20.6/45

Out: -145.923 $\pm$ 316.083 χ^2 /NDF:68.7/51

All: -304.222 $\pm$ 226.509 χ^2 /NDF: 89.9/97

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: 1694.390+/-0.348 χ^2/NDF : 411416.0/26

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

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

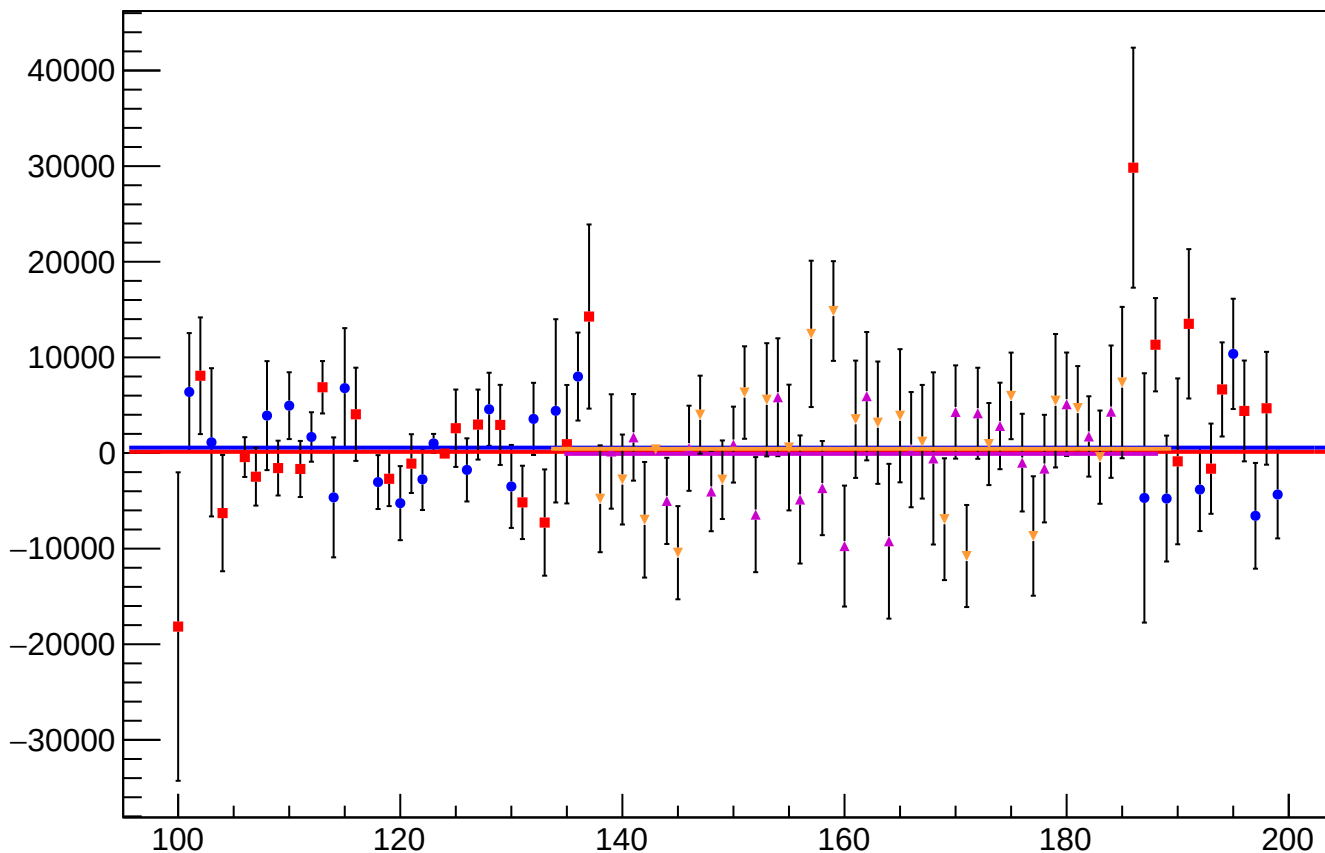
Right: 1680.018+/-0.252 χ^2/NDF : 614422.1/49

In: 1707.338+/-0.230 χ^2/NDF : 429262.2/45

Out: 1725.553+/-0.223 χ^2/NDF : 1123214.7/51

All: 1716.701+/-0.160 χ^2/NDF : 1555710.9/97

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 560.046 $\pm$ 675.169 χ^2 /NDF: 23.2/22

Left Out: 442.187 $\pm$ 440.335 χ^2 /NDF:33.9/24

Right Out: 123.559 $\pm$ 352.196 χ^2 /NDF: 38.0/26

Left In: -88.508 $\pm$ 1094.838 χ^2 /NDF:13.4/22

Left: 368.296 $\pm$ 408.531 χ^2 /NDF: 47.5/47

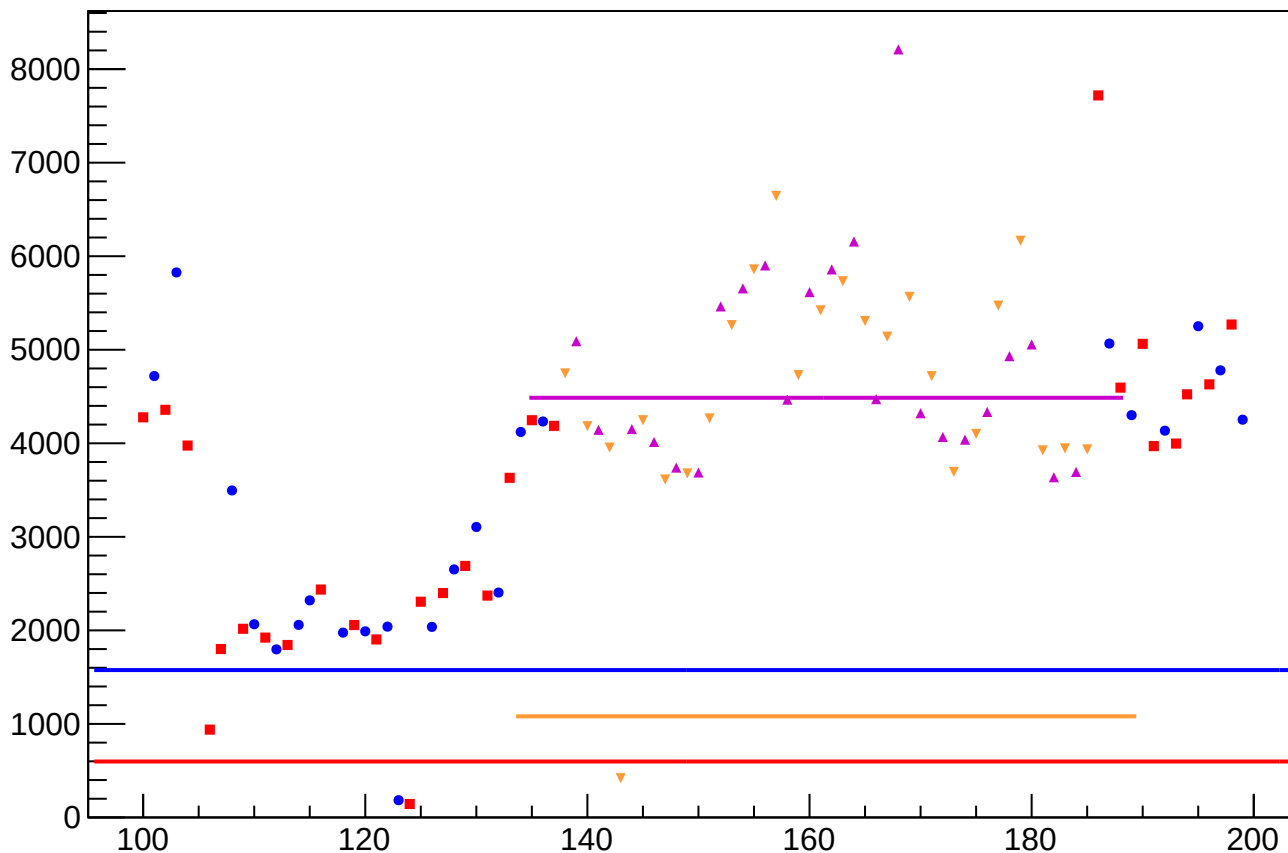
Right: 216.925 $\pm$ 312.264 χ^2 /NDF: 61.5/49

In: 381.357 $\pm$ 574.680 χ^2 /NDF:36.9/45

Out: 247.871 $\pm$ 275.041 χ^2 /NDF:72.2/51

All: 272.748 $\pm$ 248.091 χ^2 /NDF: 109.2/97

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1575.531 $\pm$ 0.477

χ^2/NDF : 10168807.4/22

Left Out: 1081.004 $\pm$ 0.311

χ^2/NDF : 24456244.2/24

Right Out: 598.099 $\pm$ 0.249

χ^2/NDF : 17957577.8/26

Left In: 4486.570 $\pm$ 0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179 $\pm$ 0.289

χ^2/NDF : 42294704.7/47

Right: 807.176 $\pm$ 0.221

χ^2/NDF : 31421372.2/49

In: 2377.579 $\pm$ 0.406

χ^2/NDF : 21594013.8/45

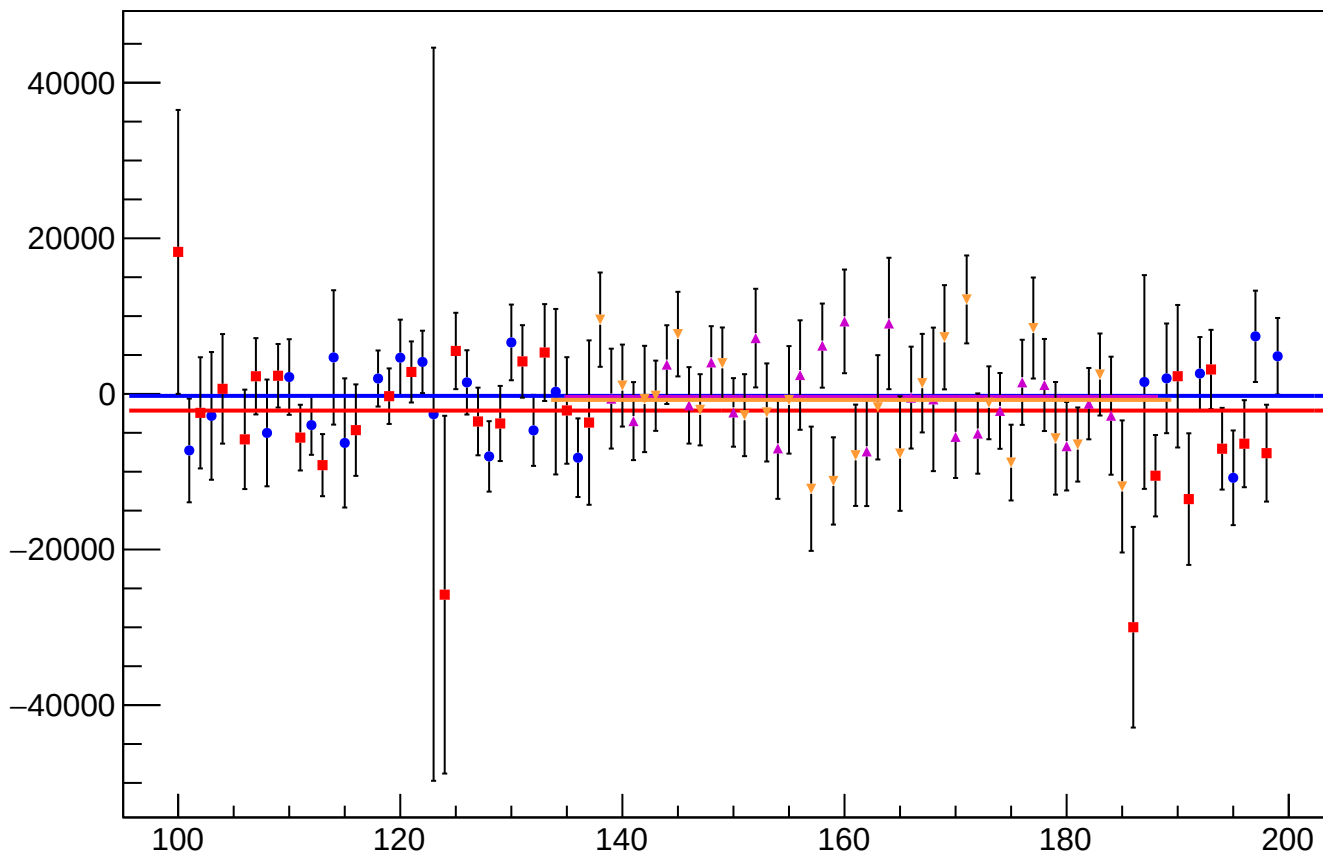
Out: 786.503 $\pm$ 0.194

χ^2/NDF : 43880762.1/51

All: 1083.028 $\pm$ 0.175

χ^2/NDF : 77948264.7/95

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: -2142.779 ± 1052.762 χ^2/NDF : 29.1/26

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

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

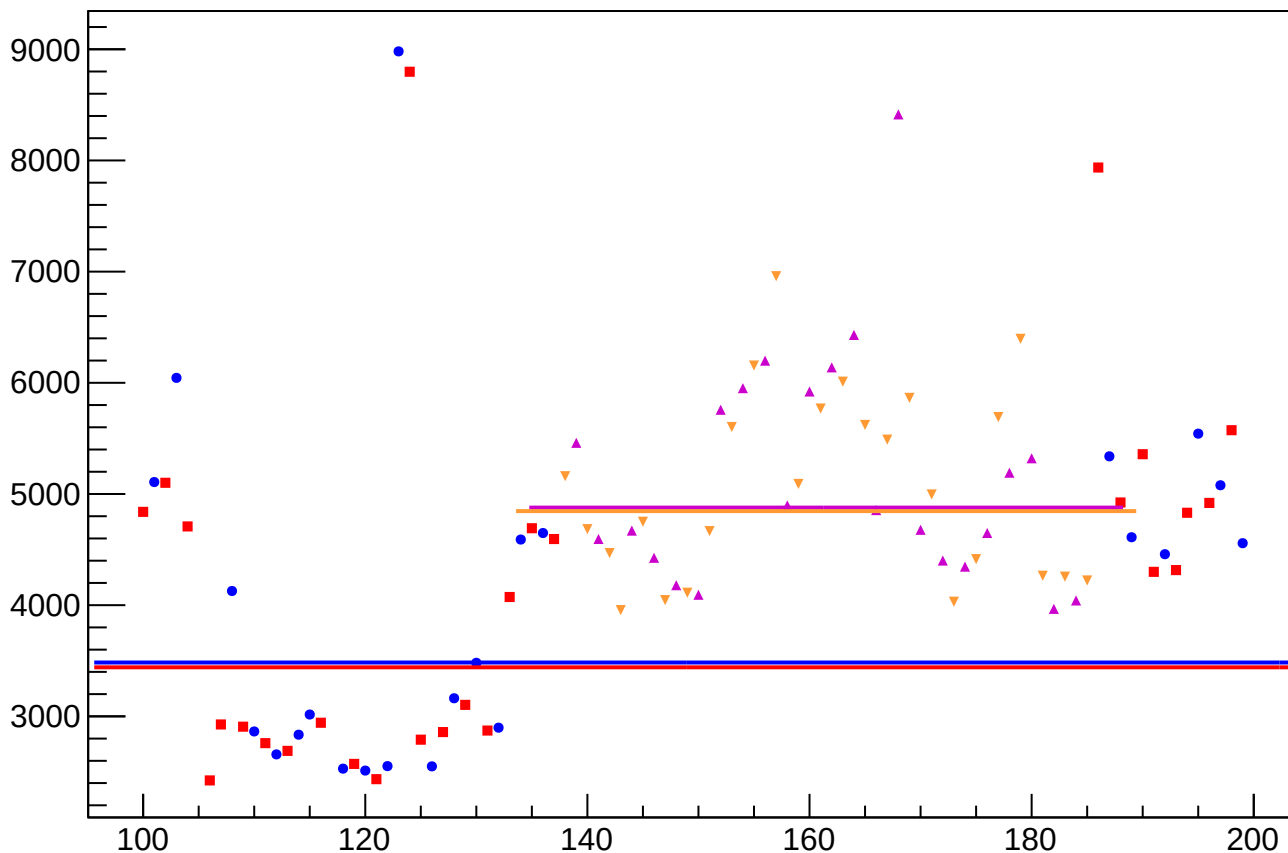
Right: -1258.862 ± 768.115 χ^2/NDF : 51.8/49

In: -317.091 ± 815.623 χ^2/NDF : 35.3/45

Out: -1513.488 ± 775.709 χ^2/NDF : 59.9/51

All: -945.279 ± 562.090 χ^2/NDF : 96.3/97

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3484.269 $\pm$ 0.794 χ^2/NDF : 1747513.4/22

Left Out: 4845.779 $\pm$ 0.811 χ^2/NDF : 909173.9/24

Right Out: 3440.995 $\pm$ 0.737 χ^2/NDF : 2131465.0/26

Left In: 4877.456 $\pm$ 0.839 χ^2/NDF : 958623.2/22

Left: 4861.089 $\pm$ 0.583 χ^2/NDF : 1868533.9/47

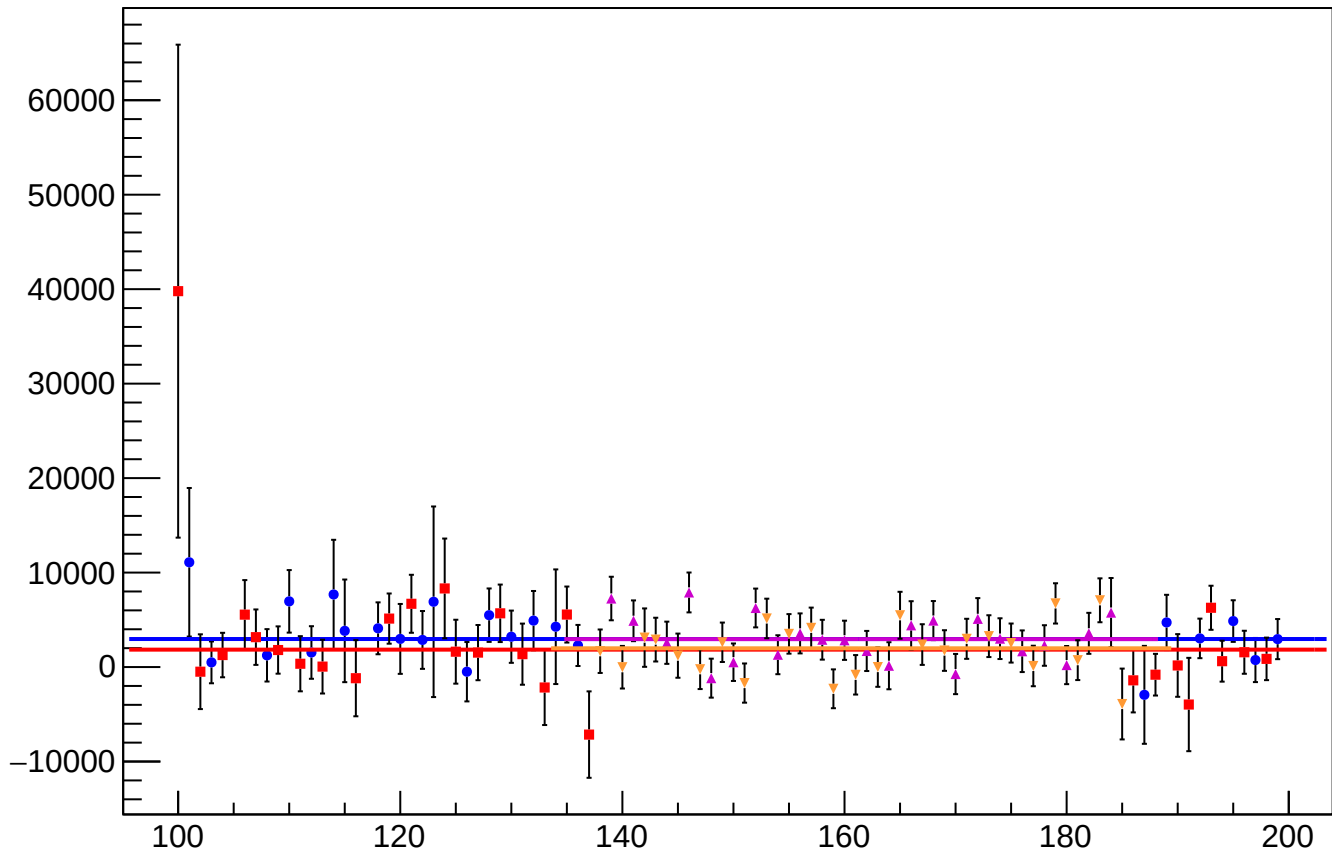
Right: 3461.021 $\pm$ 0.540 χ^2/NDF : 3880573.3/49

In: 4142.833 $\pm$ 0.577 χ^2/NDF : 4160639.9/45

Out: 4076.251 $\pm$ 0.546 χ^2/NDF : 4682949.6/51

All: 4107.696 $\pm$ 0.396 χ^2/NDF : 8850623.1/97

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2967.612 $\pm$ 614.613 χ^2 /NDF: 11.3/22

Left Out: 1985.469 $\pm$ 443.190 χ^2 /NDF:32.4/24

Right Out: 1843.432 $\pm$ 574.761 χ^2 /NDF: 26.7/26

Left In: 2955.900 $\pm$ 454.551 χ^2 /NDF:28.4/22

Left: 2458.406 $\pm$ 317.323 χ^2 /NDF: 63.2/47

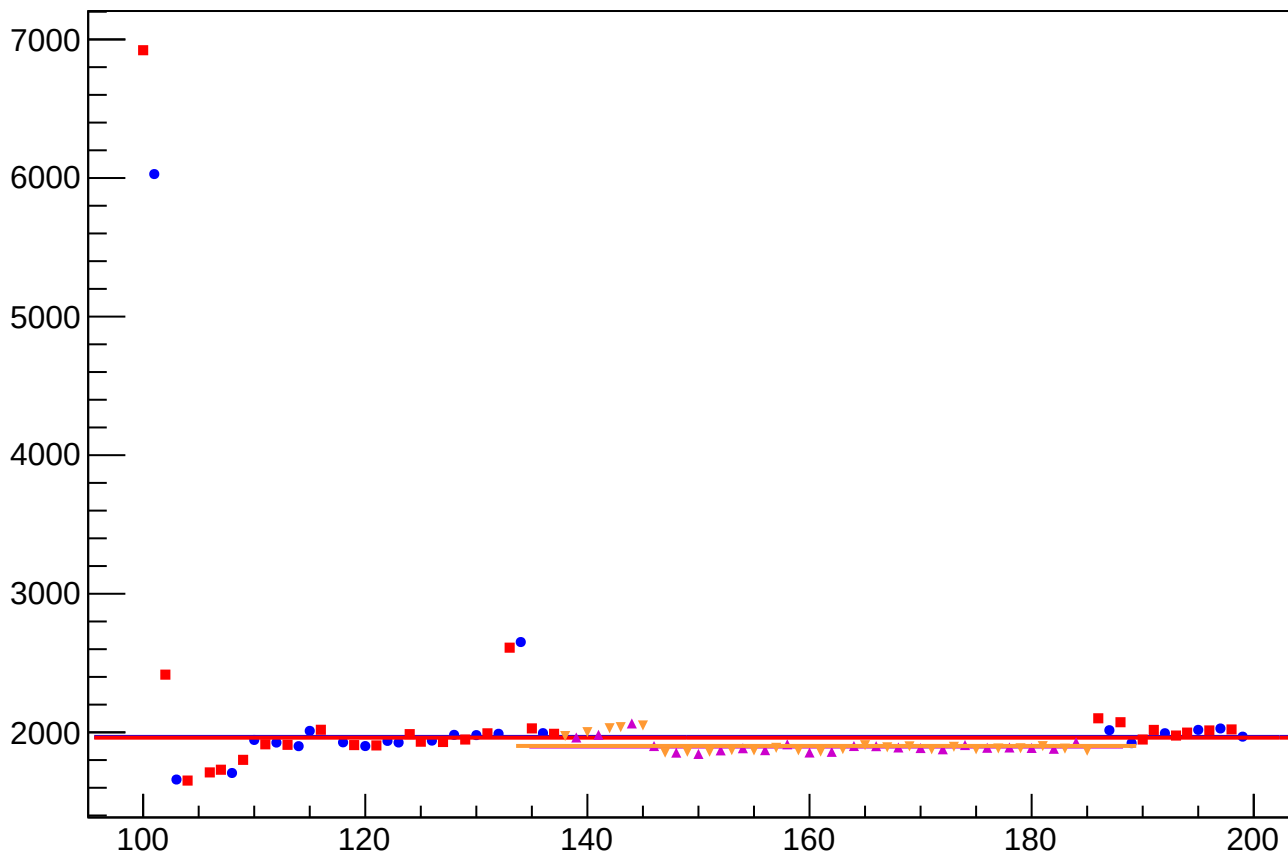
Right: 2367.896 $\pm$ 419.800 χ^2 /NDF: 39.8/49

In: 2960.041 $\pm$ 365.462 χ^2 /NDF:39.7/45

Out: 1932.507 $\pm$ 350.968 χ^2 /NDF:59.2/51

All: 2425.495 $\pm$ 253.141 χ^2 /NDF: 103.0/97

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: 1961.559+/-0.406 χ^2/NDF : 234517.2/26

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

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

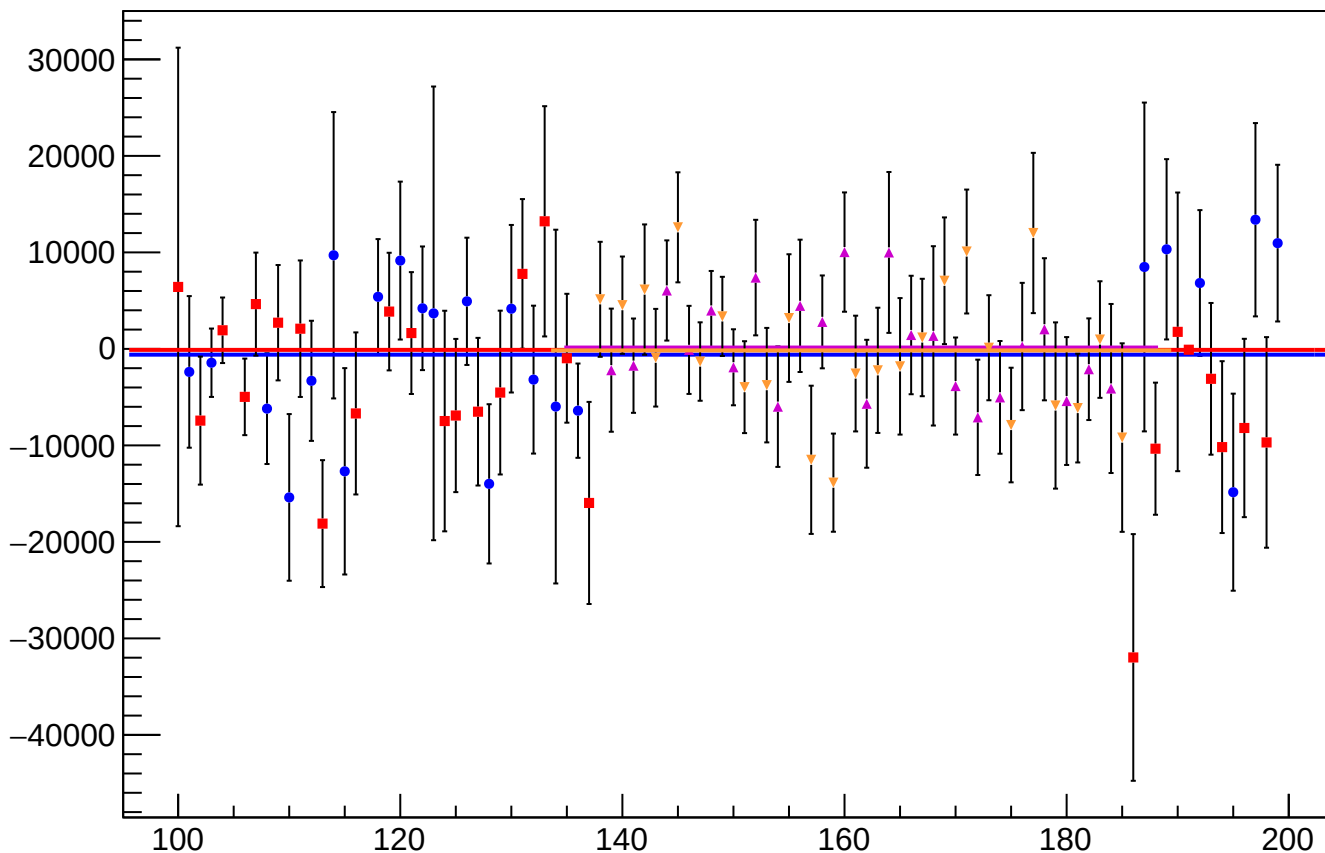
Right: 1964.101+/-0.297 χ^2/NDF : 856122.8/49

In: 1922.051+/-0.258 χ^2/NDF : 659261.9/45

Out: 1924.175+/-0.248 χ^2/NDF : 278508.8/51

All: 1923.156+/-0.179 χ^2/NDF : 937805.9/97

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: -102.240+/-109.593 χ^2/NDF : 31.1/26

Left In: 139.000+/-1190.889 χ^2/NDF : 14.7/22

Left: -12.420+/-833.090 χ^2/NDF : 44.2/47

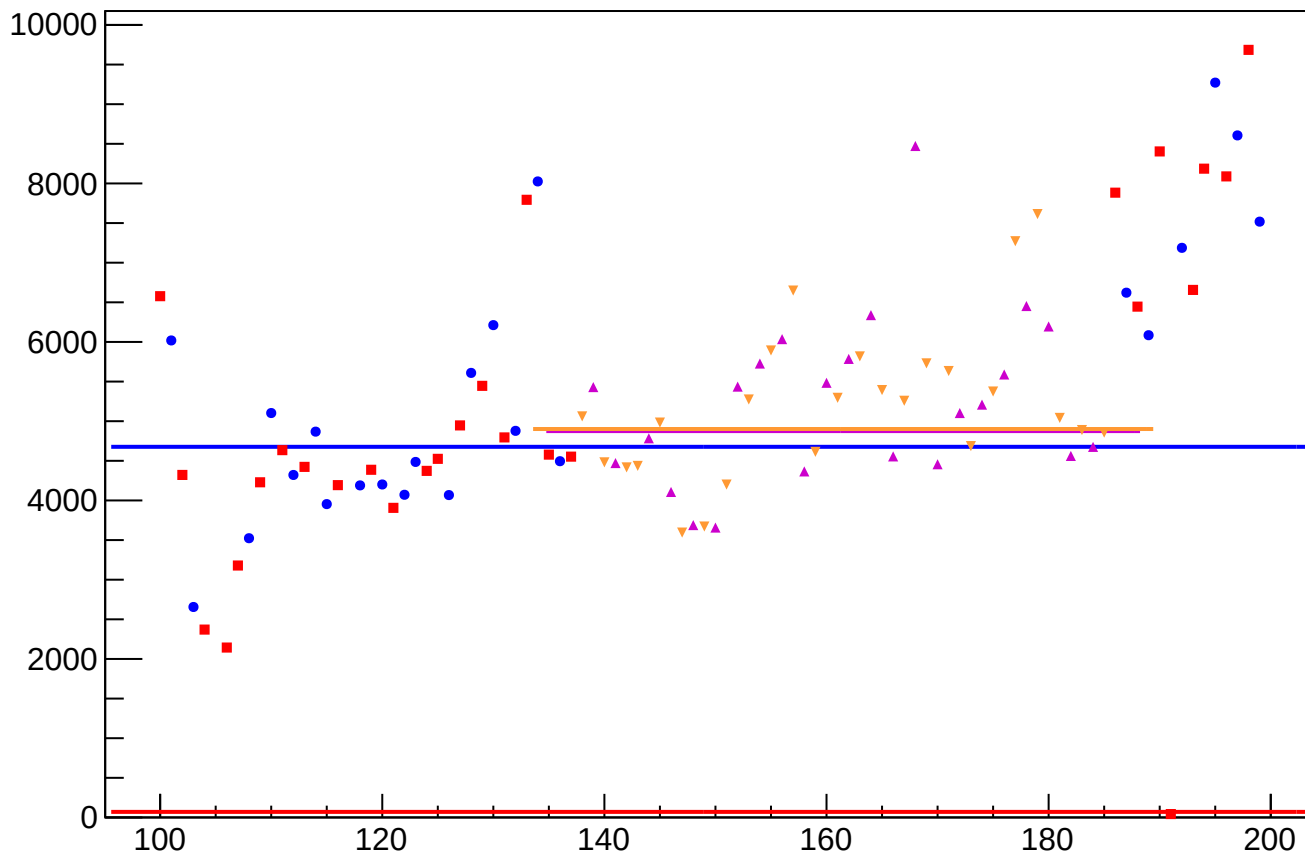
Right: -104.774+/-109.312 χ^2/NDF : 53.9/49

In: -139.284+/-939.482 χ^2/NDF : 37.6/45

Out: -102.724+/-109.112 χ^2/NDF : 60.5/51

All: -103.211+/-108.383 χ^2/NDF : 98.2/97

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: 70.314+/-0.077 χ^2/NDF : 22788978.2/26

Left In: 4875.112+/-0.842 χ^2/NDF : 1229198.0/22

Left: 4888.513+/-0.589 χ^2/NDF : 2366610.1/47

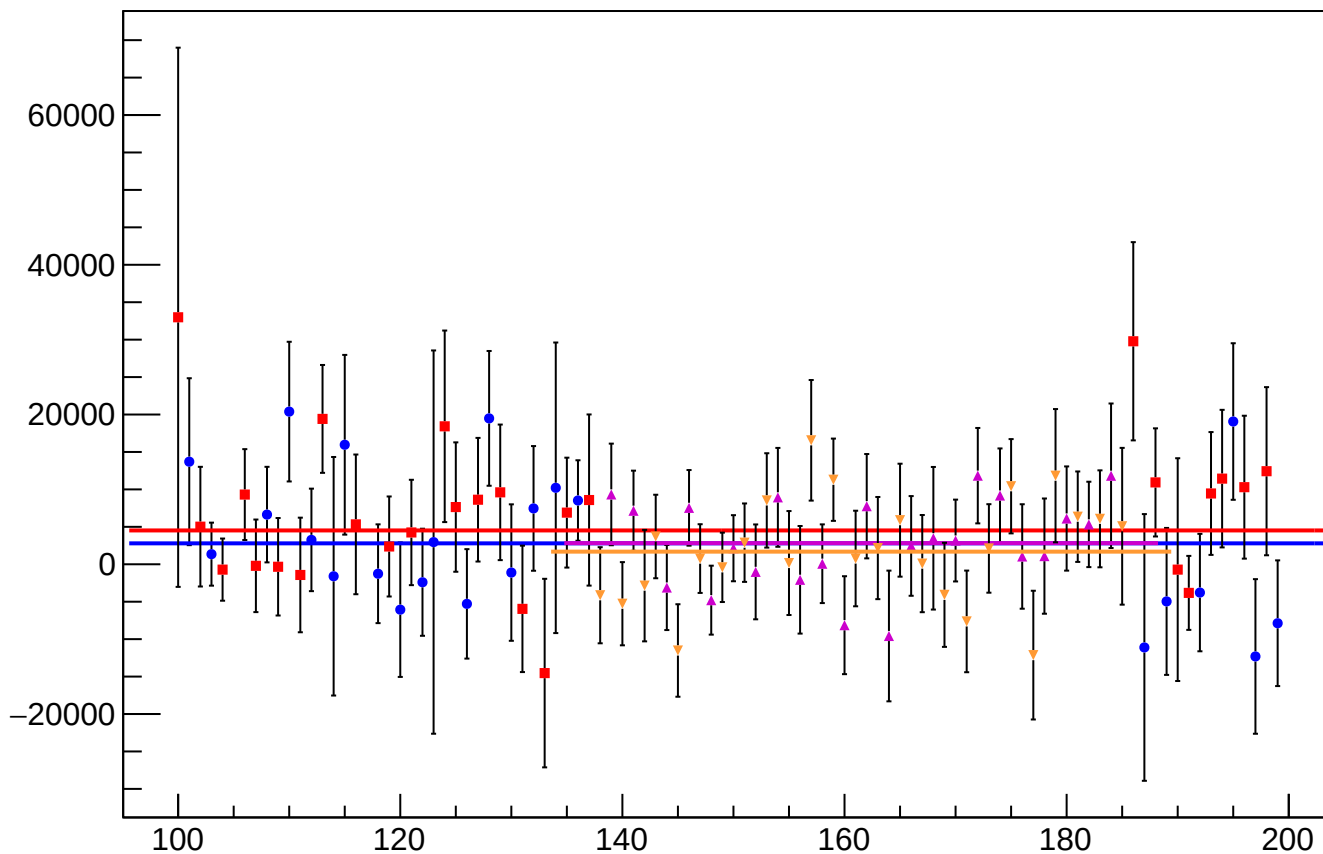
Right: 93.865+/-0.077 χ^2/NDF : 43129922.9/49

In: 4800.216+/-0.664 χ^2/NDF : 3525401.9/45

Out: 112.629+/-0.077 χ^2/NDF : 57967487.1/51

All: 175.016+/-0.077 χ^2/NDF : 110621284.6/51

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2794.552+/-1698.616 χ^2/NDF : 22.7/22

Left Out: 1686.531+/-1261.650 χ^2/NDF : 25.4/24

Right Out: 4519.109+/-1489.492 χ^2/NDF : 24.1/26

Left In: 2824.078+/-1288.414 χ^2/NDF : 18.0/22

Left: 2243.367+/-901.435 χ^2/NDF : 43.8/47

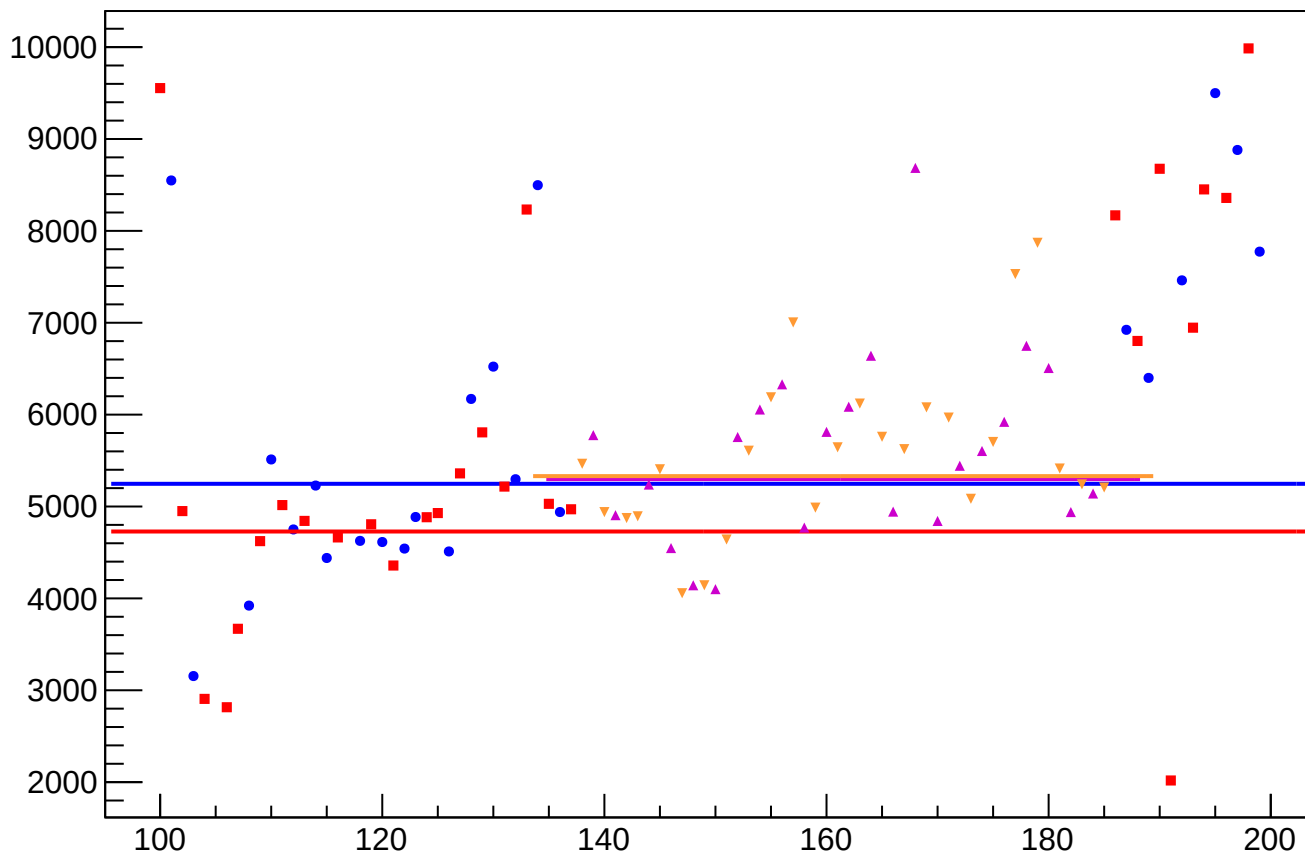
Right: 3769.468+/-1119.910 χ^2/NDF : 47.4/49

In: 2813.295+/-1026.524 χ^2/NDF : 40.7/45

Out: 2869.832+/-962.709 χ^2/NDF : 51.6/51

All: 2843.376+/-702.215 χ^2/NDF : 92.3/97

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: 4727.948+/-1.049 χ^2/NDF : 3171142.6/26

Left In: 5298.329+/-0.911 χ^2/NDF : 956021.6/22

Left: 5314.867+/-0.637 χ^2/NDF : 1824728.8/47

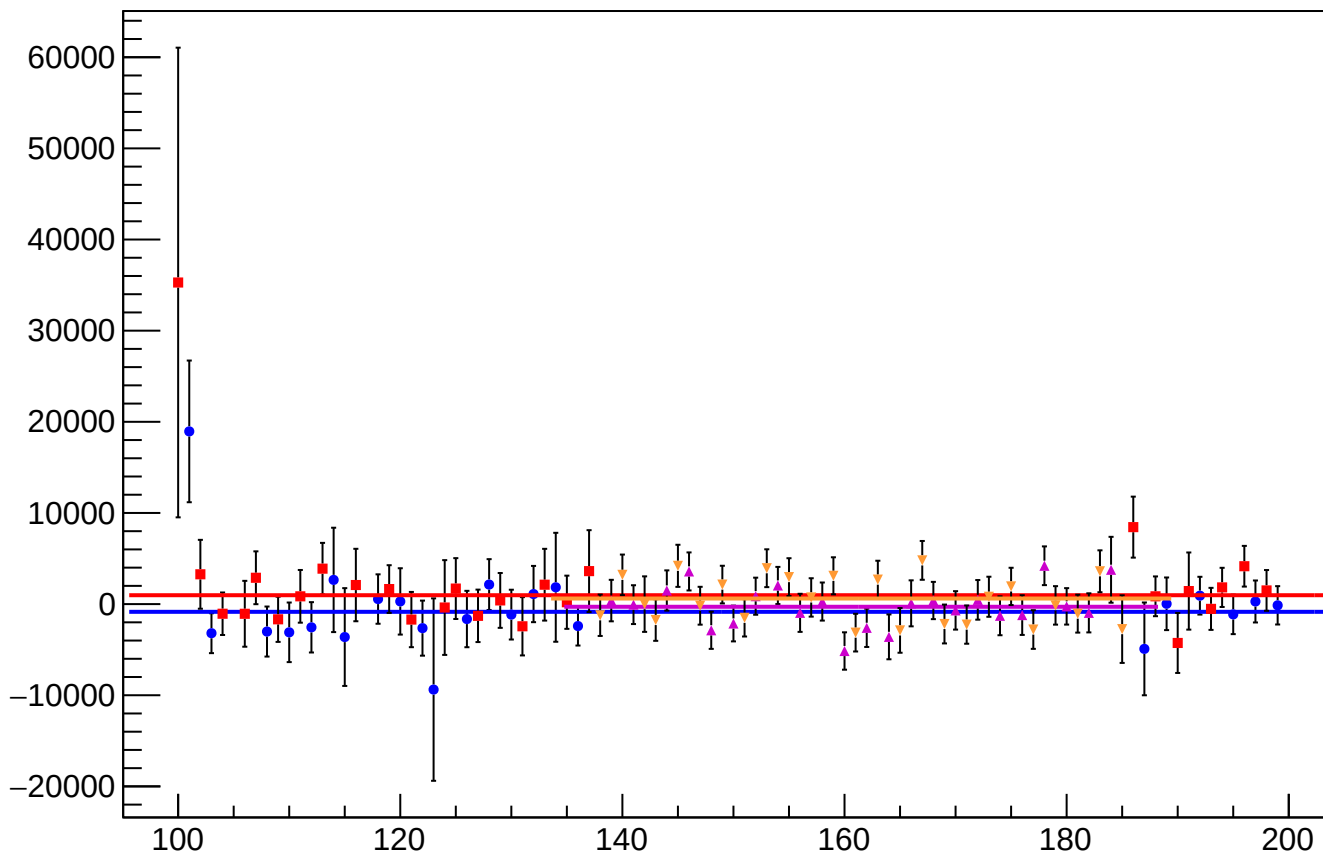
Right: 4952.508+/-0.790 χ^2/NDF : 5209786.1/49

In: 5279.615+/-0.726 χ^2/NDF : 2889815.5/45

Out: 5077.648+/-0.680 χ^2/NDF : 4230877.7/51

All: 5171.977+/-0.496 χ^2/NDF : 7161954.3/97

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -847.442 ± 606.704 $\chi^2/\text{NDF}: 15.4/22$

Left Out: 612.314 ± 438.264 $\chi^2/\text{NDF}: 32.7/24$

Right Out: 974.475 ± 566.423 $\chi^2/\text{NDF}: 19.4/26$

Left In: -293.009 ± 449.575 $\chi^2/\text{NDF}: 23.6/22$

Left: 171.185 ± 313.822 $\chi^2/\text{NDF}: 58.4/47$

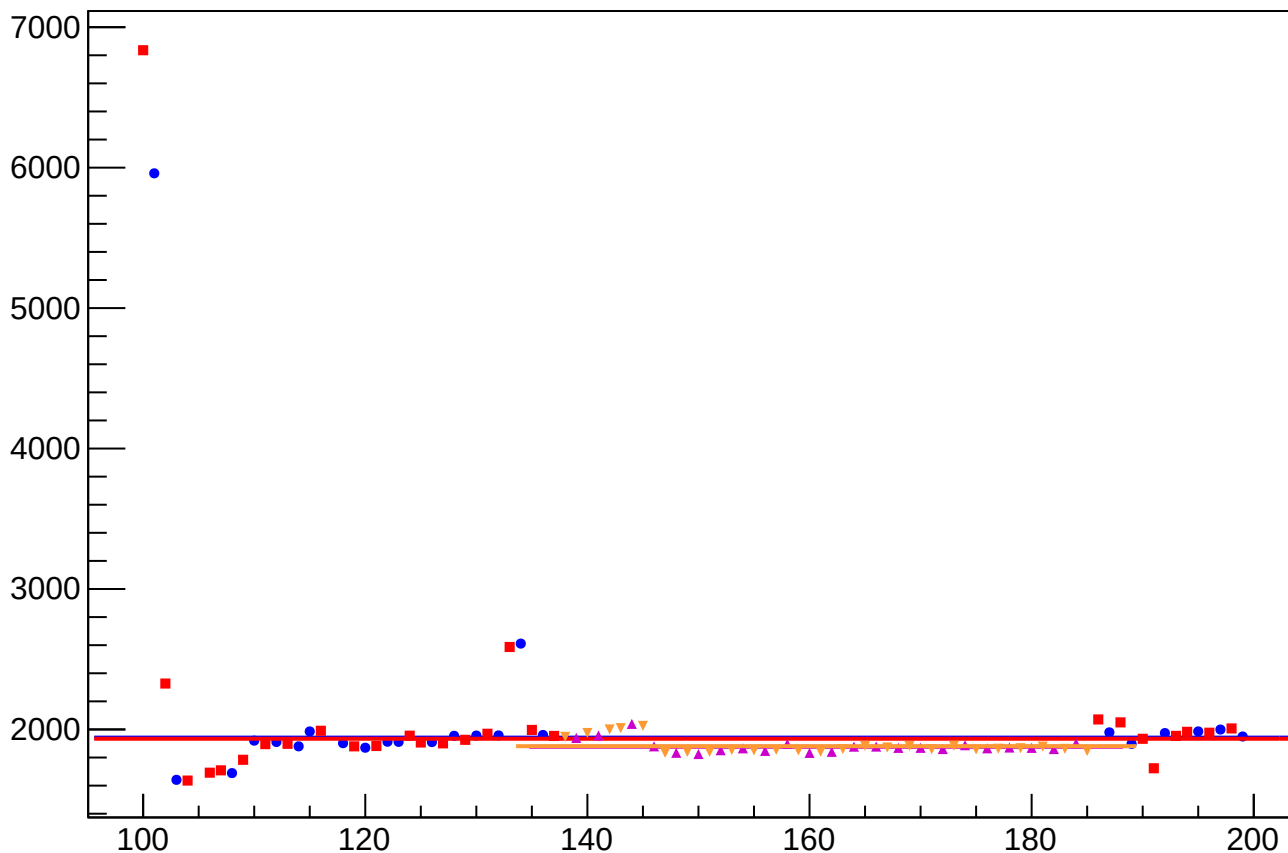
Right: 126.002 ± 414.030 $\chi^2/\text{NDF}: 39.6/49$

In: -489.535 ± 361.213 $\chi^2/\text{NDF}: 39.6/45$

Out: 747.937 ± 346.622 $\chi^2/\text{NDF}: 52.3/51$

All: 154.698 ± 250.098 $\chi^2/\text{NDF}: 98.0/97$

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: 1933.743 $\pm$ 0.400 χ^2 /NDF: 233351.8/26

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

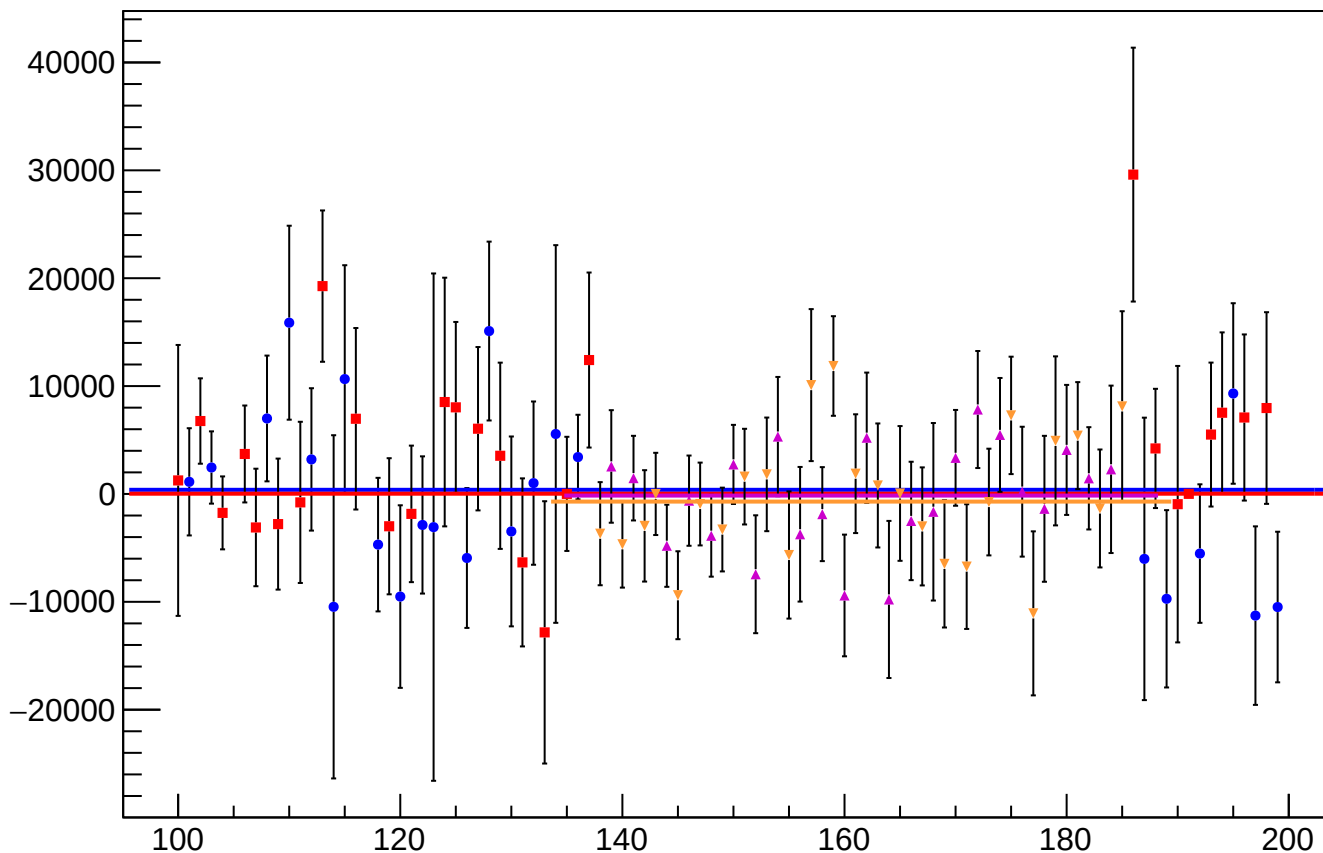
Right: 1937.489 $\pm$ 0.293 χ^2 /NDF: 853393.6/49

In: 1899.765 $\pm$ 0.255 χ^2 /NDF: 655224.0/45

Out: 1900.665 $\pm$ 0.245 χ^2 /NDF: 272952.2/51

All: 1900.234 $\pm$ 0.177 χ^2 /NDF: 928182.7/97

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: 22.400 ± 85.819 χ^2/NDF : 29.7/26

Left In: -150.495 ± 1053.655 χ^2/NDF : 16.9/22

Left: -438.806 ± 732.011 χ^2/NDF : 44.2/47

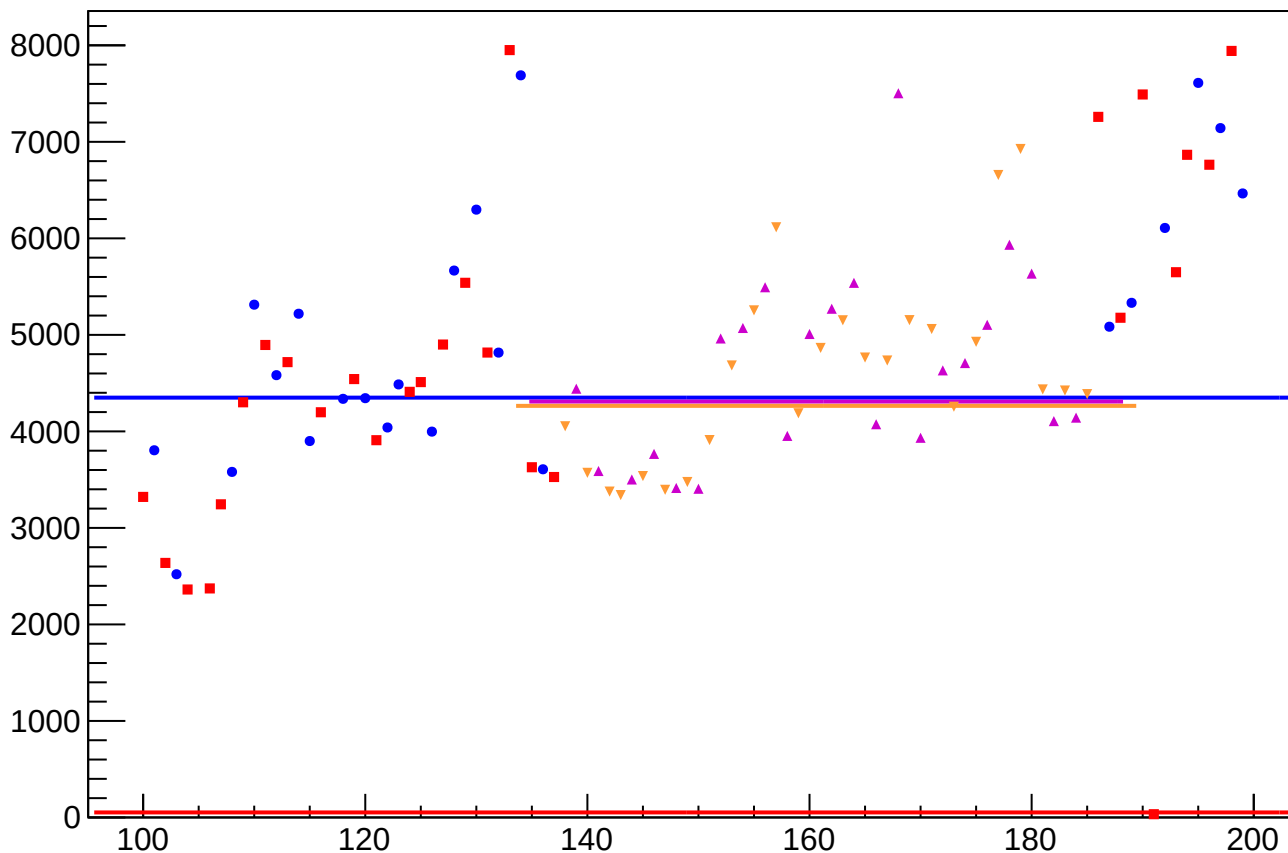
Right: 23.741 ± 85.660 χ^2/NDF : 51.5/49

In: 41.572 ± 843.353 χ^2/NDF : 38.7/45

Out: 17.245 ± 85.516 χ^2/NDF : 57.3/51

All: 17.492 ± 85.079 χ^2/NDF : 96.0/97

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: 52.041+/-0.061 χ^2/NDF : 22922087.6/26

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

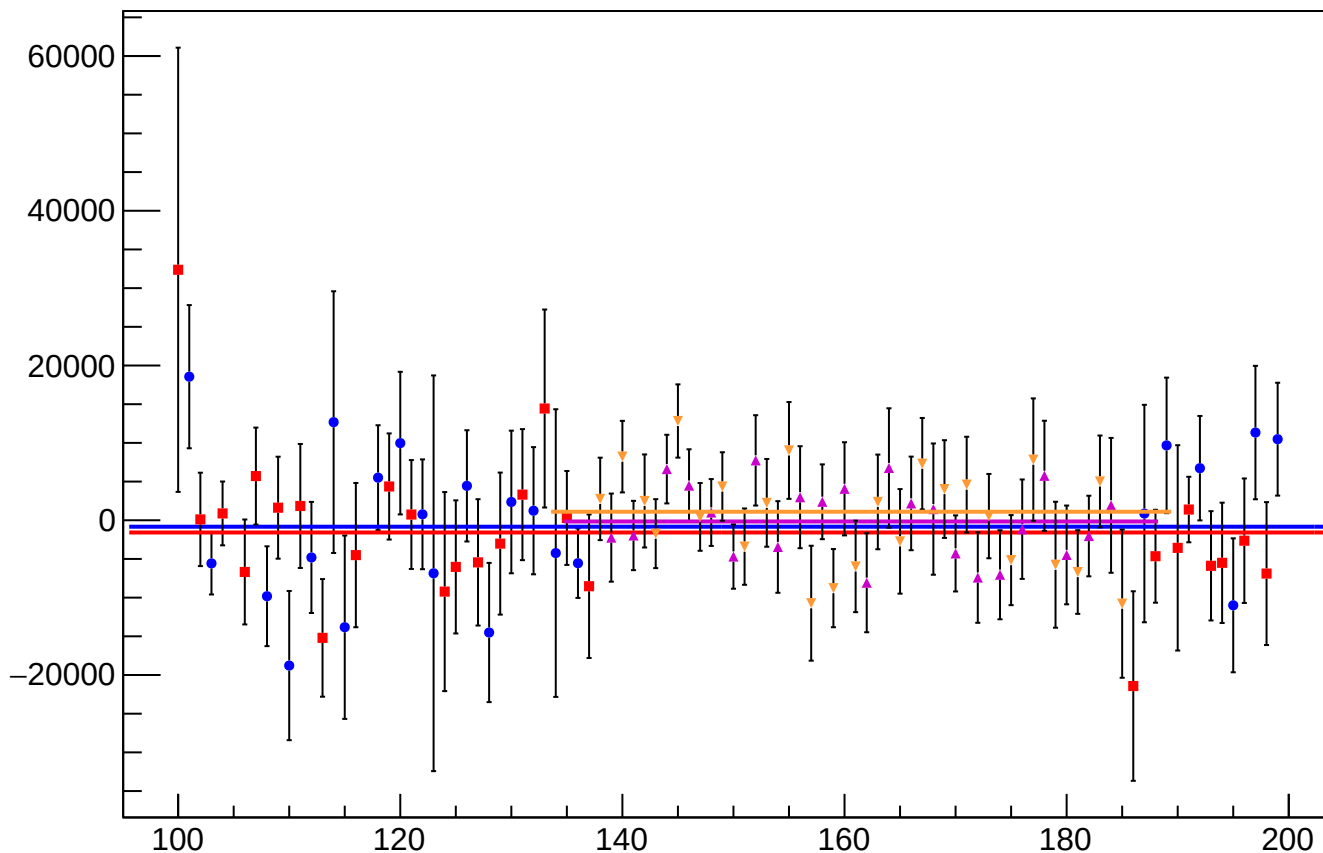
Right: 67.974+/-0.061 χ^2/NDF : 43418661.2/49

In: 4323.666+/-0.596 χ^2/NDF : 3208137.6/45

Out: 81.782+/-0.060 χ^2/NDF : 58298583.6/51

All: 124.953+/-0.060 χ^2/NDF : 111589205.6/51

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -834.139 ± 1601.799 $\chi^2/\text{NDF}: 28.3/22$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -1580.111 ± 1402.399 $\chi^2/\text{NDF}: 16.1/26$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

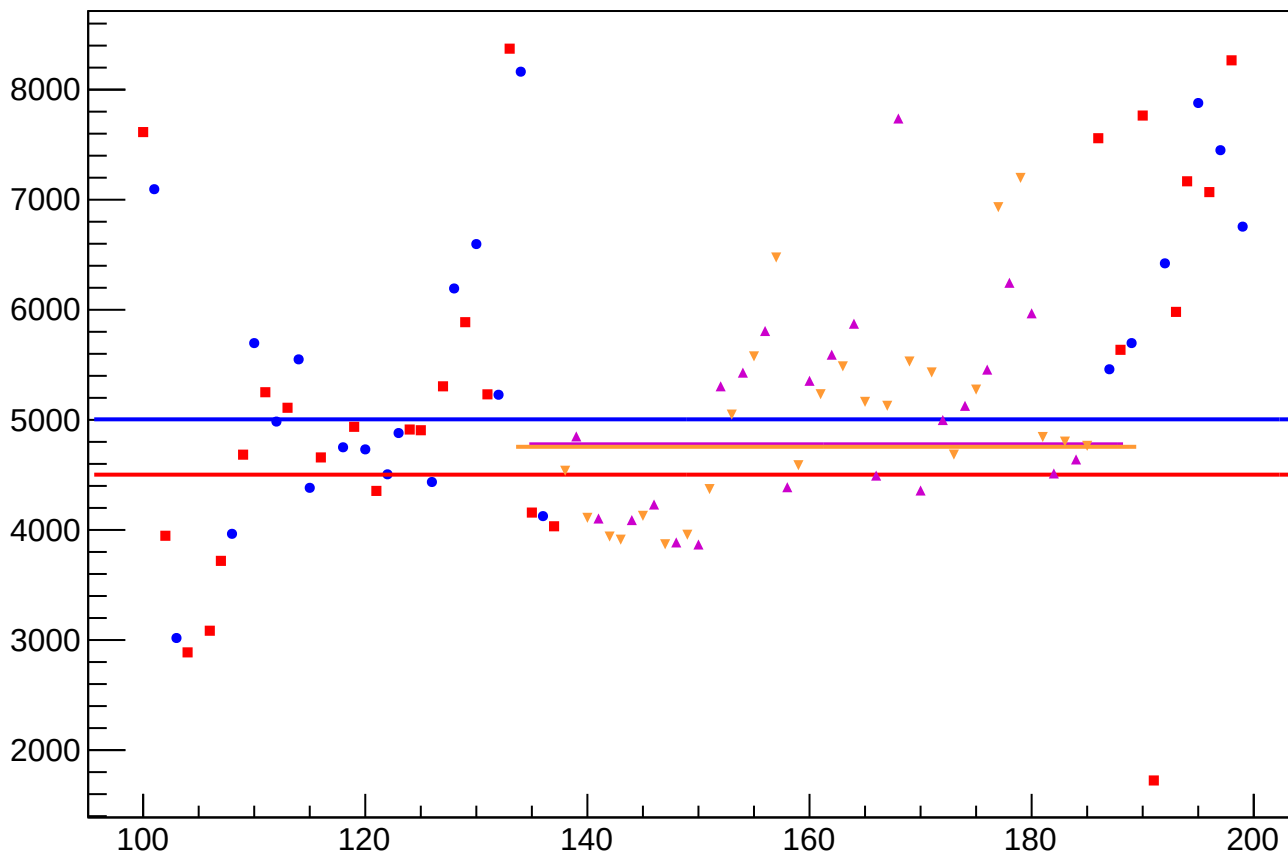
Right: -1256.421 ± 1055.143 $\chi^2/\text{NDF}: 44.6/49$

In: -391.452 ± 940.312 $\chi^2/\text{NDF}: 44.0/45$

Out: 50.055 ± 878.325 $\chi^2/\text{NDF}: 46.9/51$

All: -155.667 ± 641.865 $\chi^2/\text{NDF}: 91.0/97$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5004.834+/-1.133 χ^2/NDF : 1517217.0/22

Left Out: 4755.383+/-0.797 χ^2/NDF : 953328.0/24

Right Out: 4502.311+/-0.988 χ^2/NDF : 2840088.2/26

Left In: 4777.831+/-0.821 χ^2/NDF : 950291.2/22

Left: 4766.265+/-0.572 χ^2/NDF : 1904004.1/47

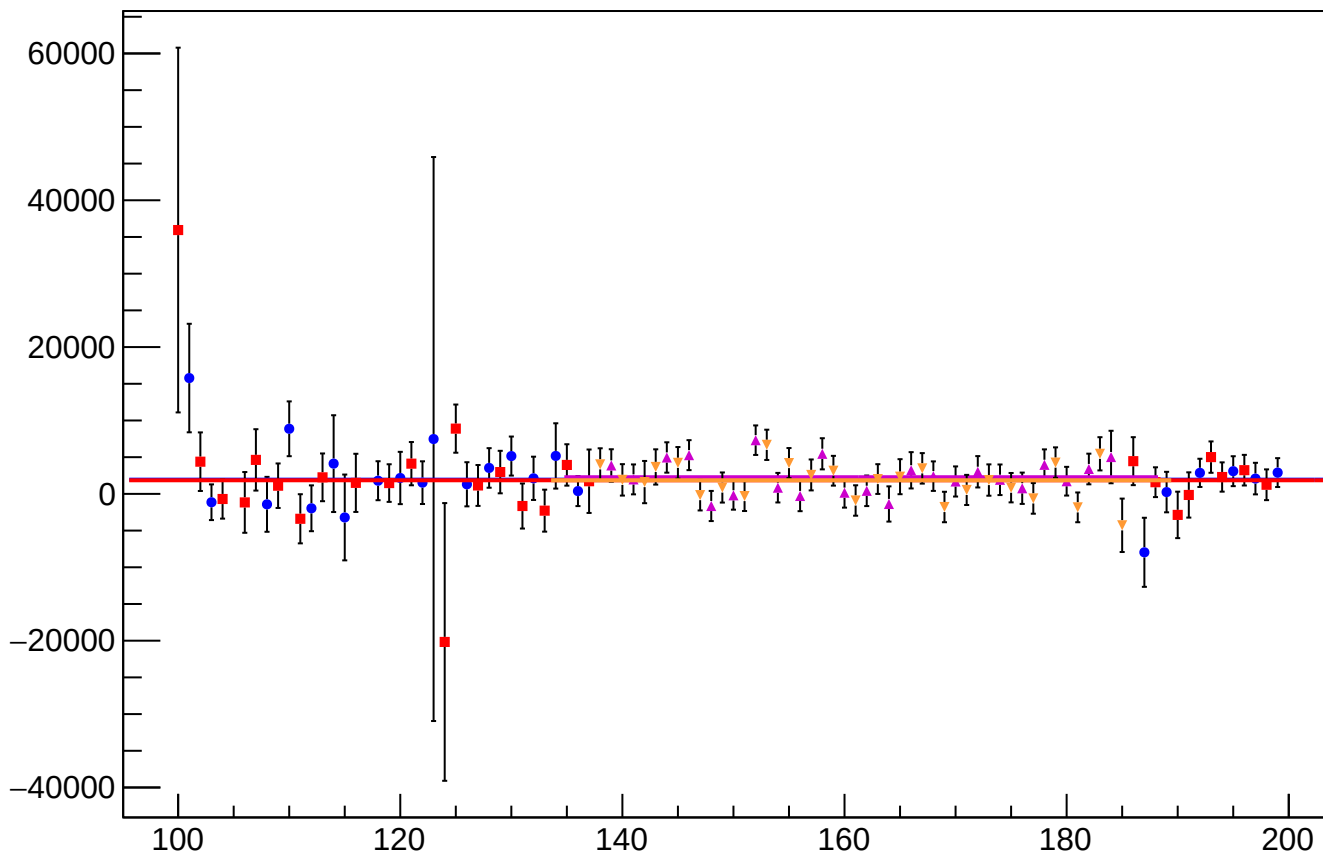
Right: 4719.418+/-0.744 χ^2/NDF : 4469106.8/49

In: 4856.058+/-0.665 χ^2/NDF : 2493833.8/45

Out: 4655.651+/-0.620 χ^2/NDF : 3833182.8/51

All: 4748.882+/-0.454 χ^2/NDF : 6375601.2/97

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1937.266 $\pm$ 599.532 χ^2 /NDF: 20.4/22

Left Out: 1856.570 $\pm$ 430.977 χ^2 /NDF:30.0/24

Right Out: 1853.658 $\pm$ 562.142 χ^2 /NDF: 23.5/26

Left In: 2268.464 $\pm$ 441.710 χ^2 /NDF:26.9/22

Left: 2057.452 $\pm$ 308.471 χ^2 /NDF: 57.3/47

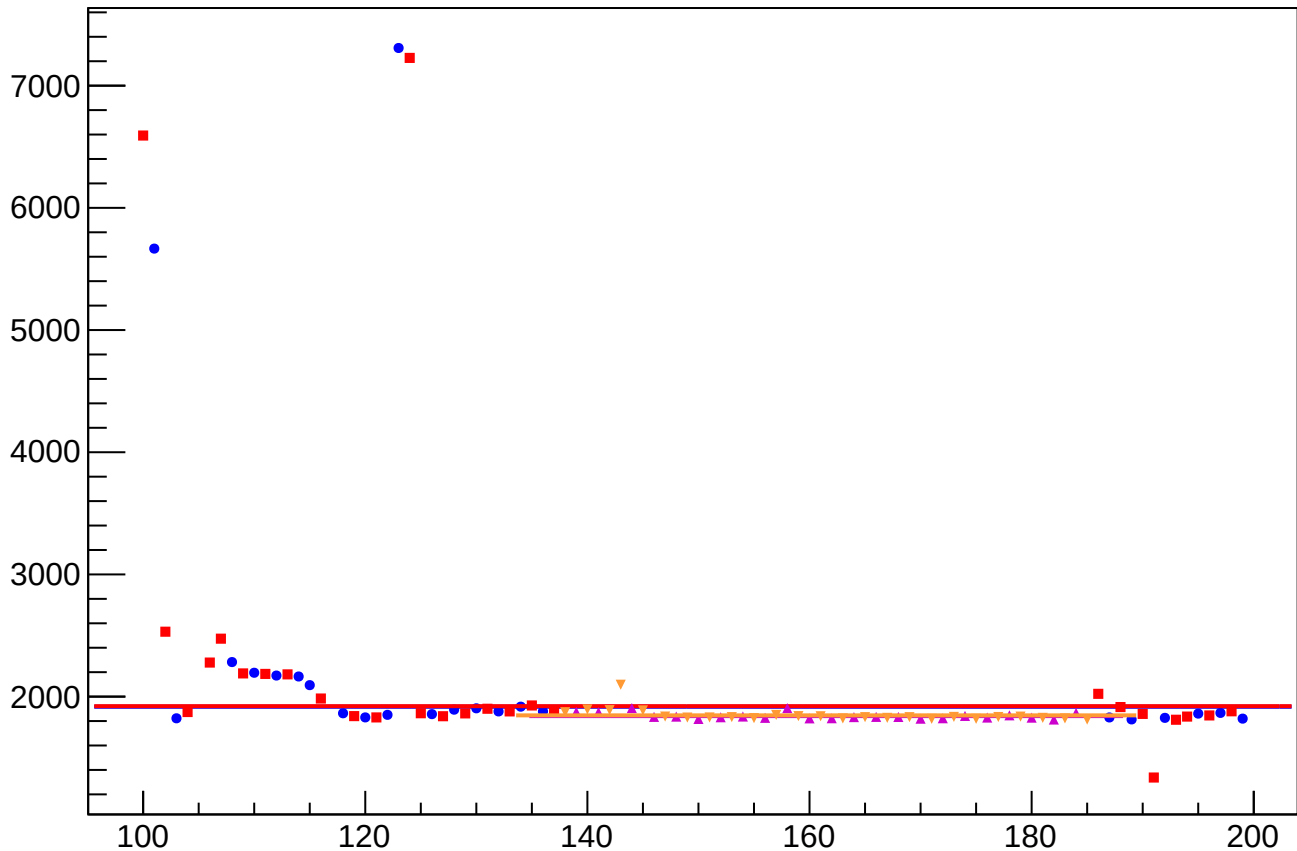
Right: 1892.774 $\pm$ 410.076 χ^2 /NDF: 43.9/49

In: 2151.938 $\pm$ 355.616 χ^2 /NDF:47.5/45

Out: 1855.492 $\pm$ 342.025 χ^2 /NDF:53.5/51

All: 1997.942 $\pm$ 246.513 χ^2 /NDF: 101.3/97

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: 1921.777+/-0.397 χ^2/NDF : 461366.8/26

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

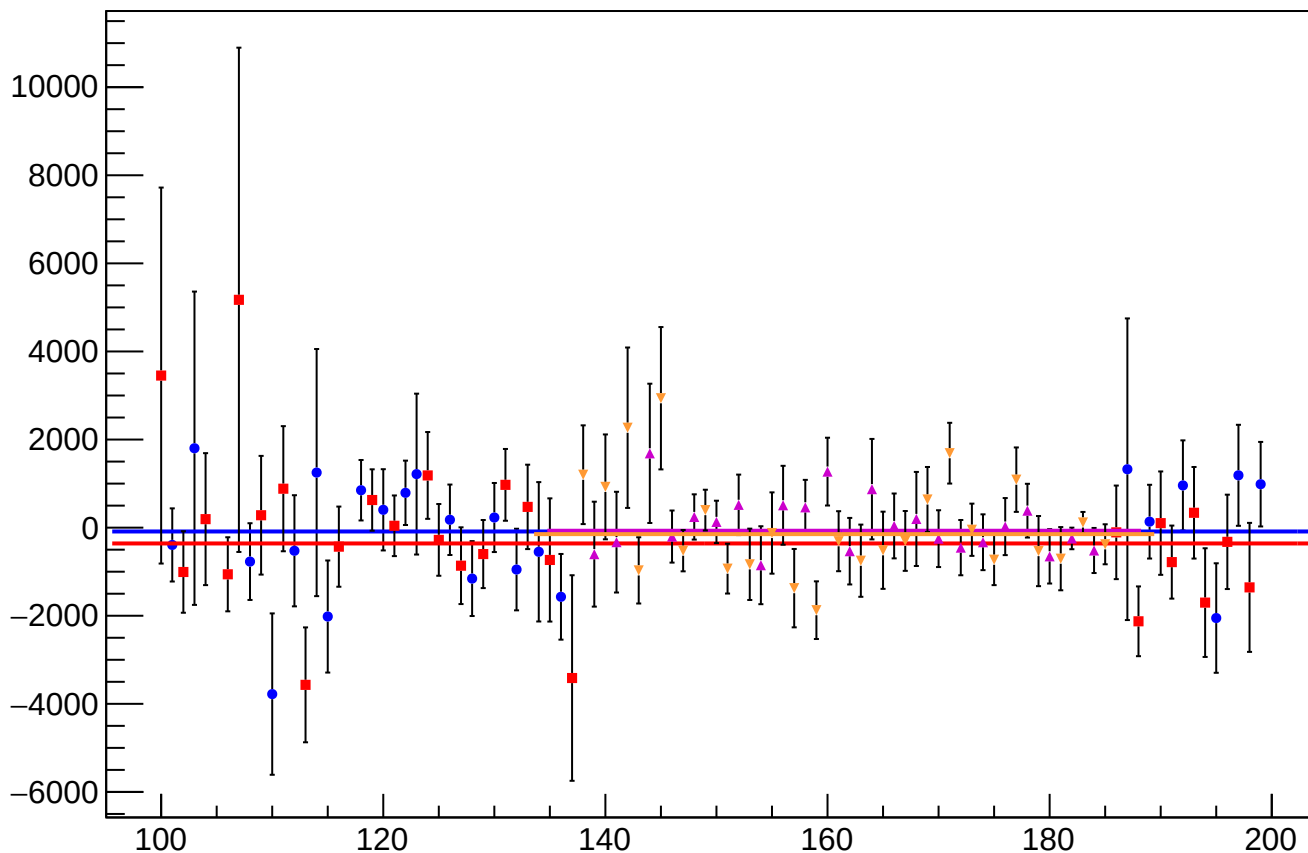
Right: 1919.609+/-0.290 χ^2/NDF : 1087218.4/49

In: 1867.492+/-0.251 χ^2/NDF : 653690.2/45

Out: 1874.431+/-0.242 χ^2/NDF : 511196.2/51

All: 1871.097+/-0.174 χ^2/NDF : 1165281.9/97

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: -358.852 ± 194.170 χ^2/NDF : 28.1/26

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

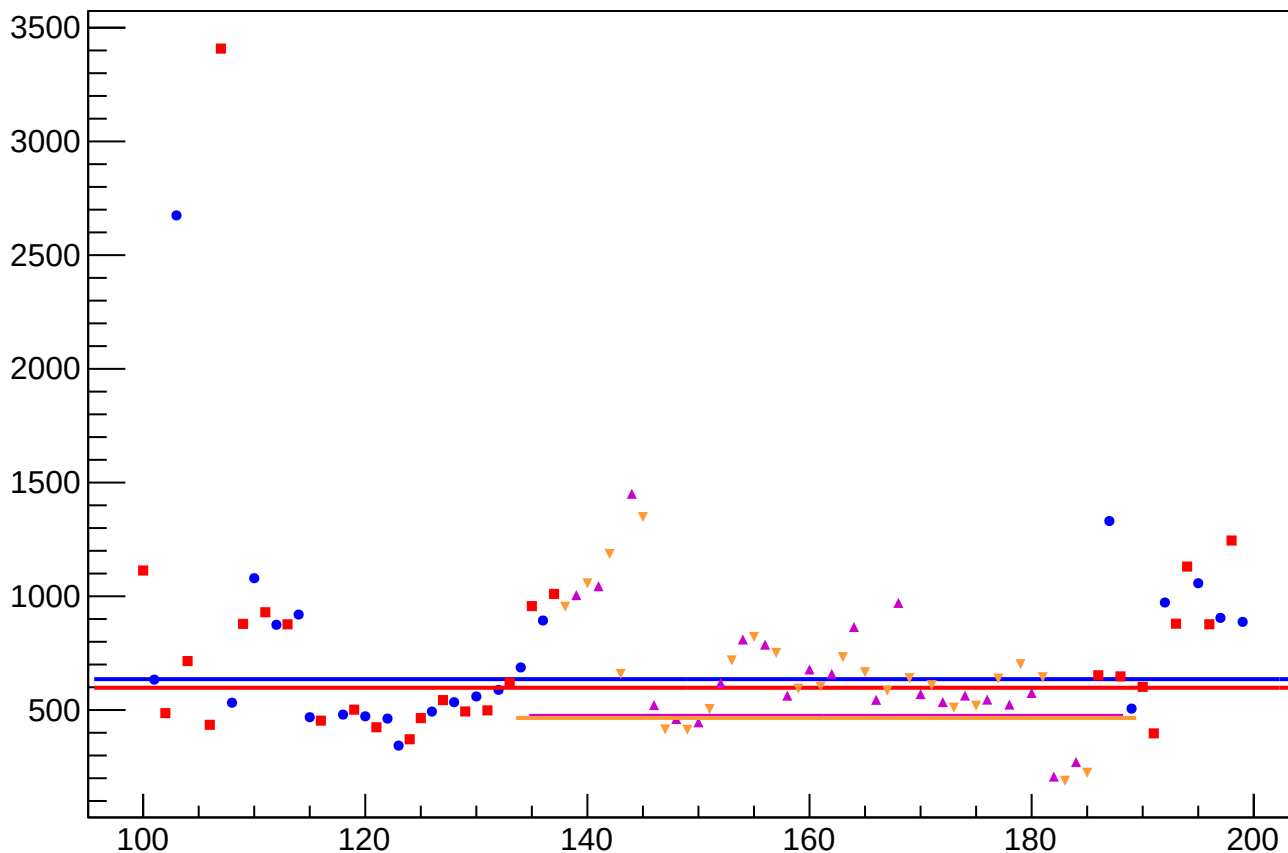
Right: -235.100 ± 143.337 χ^2/NDF : 52.2/49

In: -74.667 ± 108.615 χ^2/NDF : 35.6/45

Out: -206.951 ± 103.292 χ^2/NDF : 66.6/51

All: -144.130 ± 74.850 χ^2/NDF : 102.9/97

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 635.725+/-0.150 χ^2/NDF : 2343787.9/22

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 597.835+/-0.137 χ^2/NDF : 2737009.4/26

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

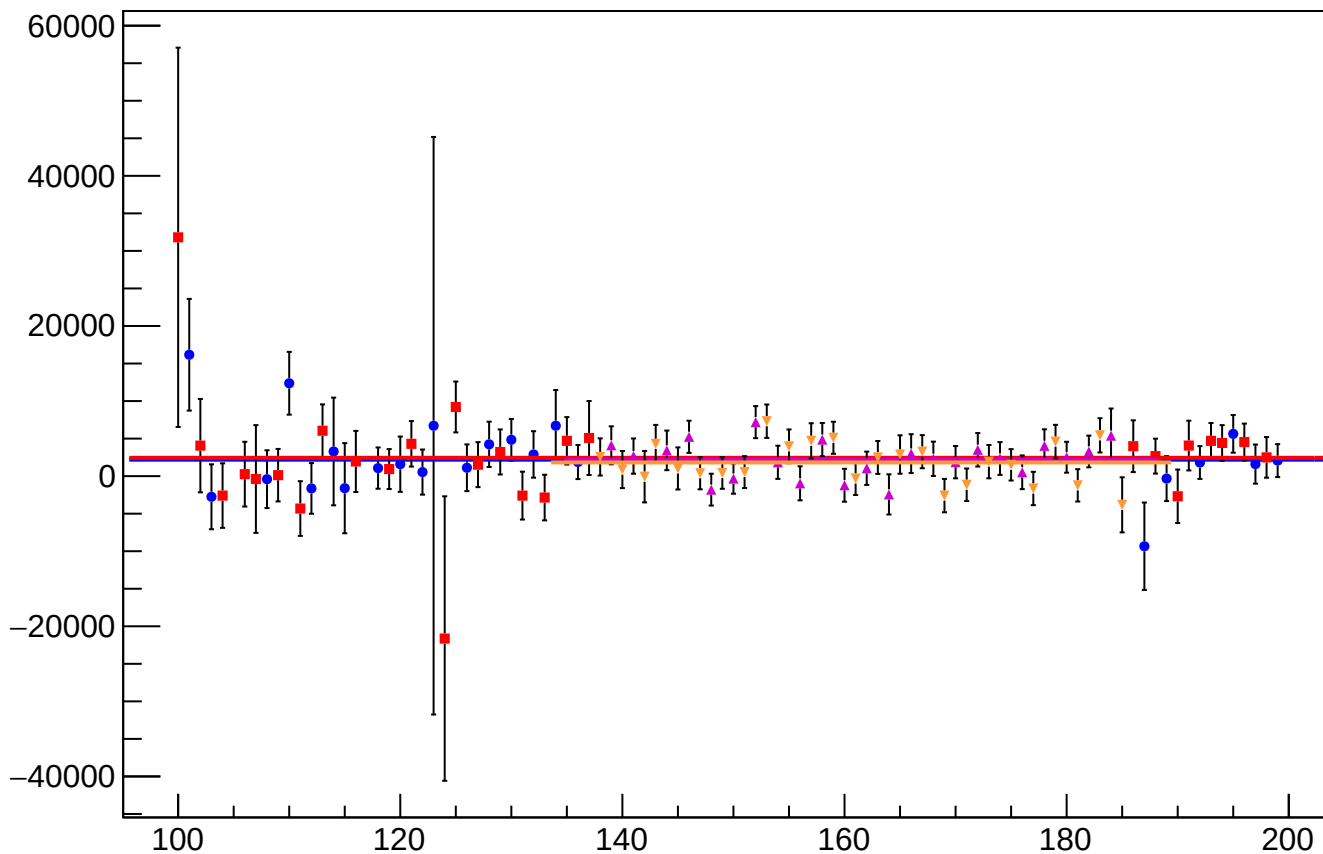
Right: 615.077+/-0.101 χ^2/NDF : 5115452.8/49

In: 516.451+/-0.077 χ^2/NDF : 9369959.6/45

Out: 502.648+/-0.073 χ^2/NDF : 10493478.3/51

All: 509.203+/-0.053 χ^2/NDF : 19880398.3/97

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: 2439.694+/-637.504 χ^2/NDF : 25.8/26

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

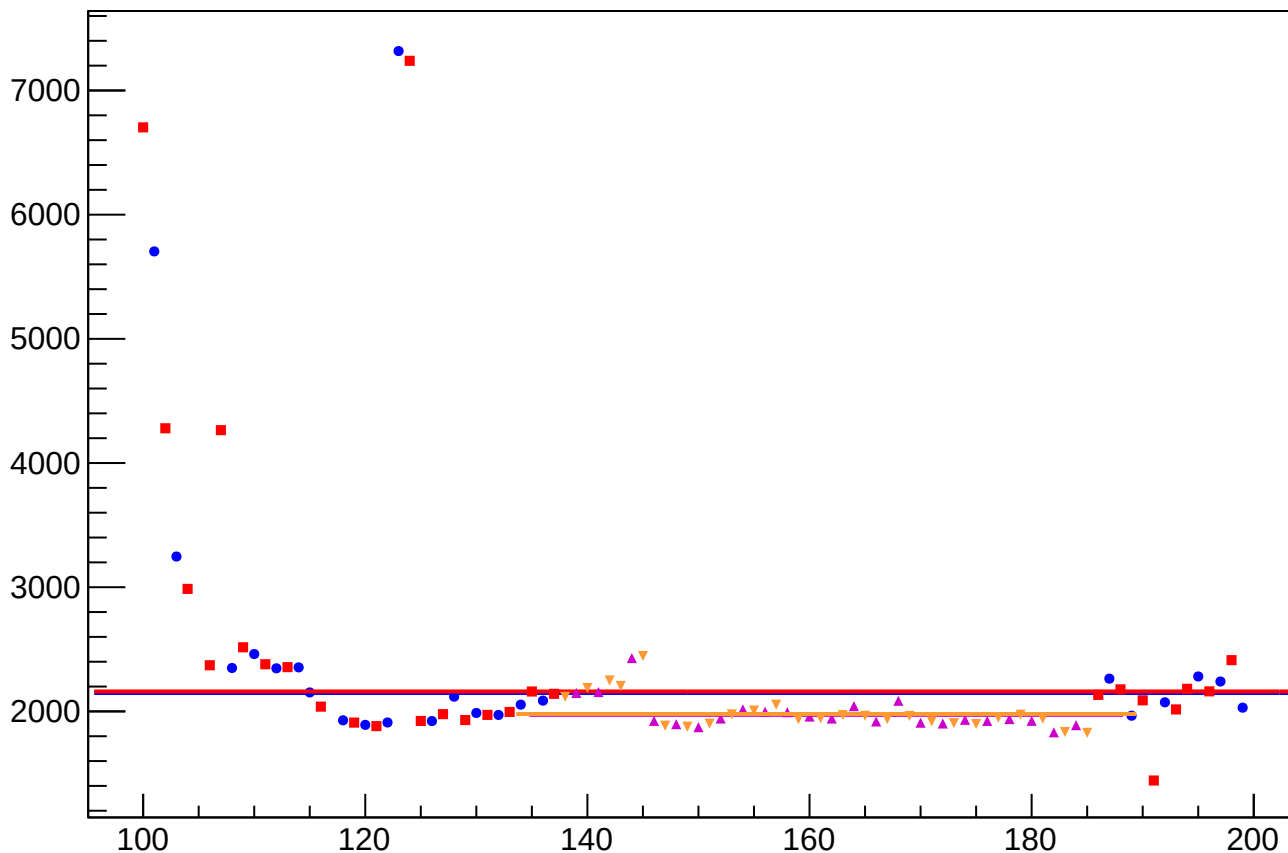
Right: 2323.651+/-463.223 χ^2/NDF : 48.4/49

In: 2203.397+/-387.791 χ^2/NDF : 47.8/45

Out: 2036.471+/-374.461 χ^2/NDF : 58.5/51

All: 2117.016+/-269.373 χ^2/NDF : 106.4/97

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: 2160.599 $\pm$ 0.451 χ^2 /NDF: 923603.8/26

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

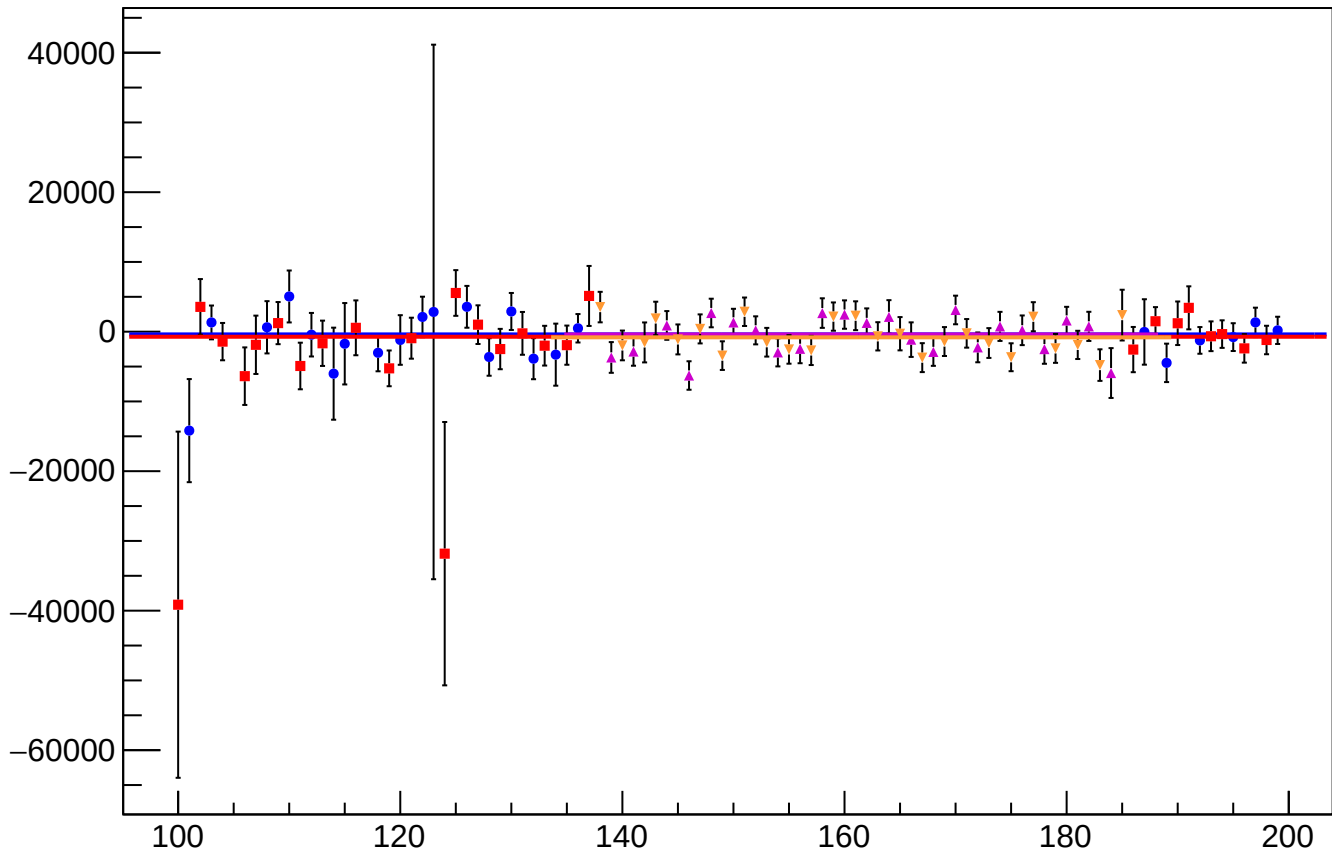
Right: 2154.897 $\pm$ 0.328 χ^2 /NDF: 1657144.2/49

In: 2030.506 $\pm$ 0.274 χ^2 /NDF:941218.4/45

Out: 2041.654 $\pm$ 0.265 χ^2 /NDF:1169203.4/51

All: 2036.275 $\pm$ 0.190 χ^2 /NDF: 2111277.2/97

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: -724.638+/-558.623 χ^2/NDF : 24.8/26

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

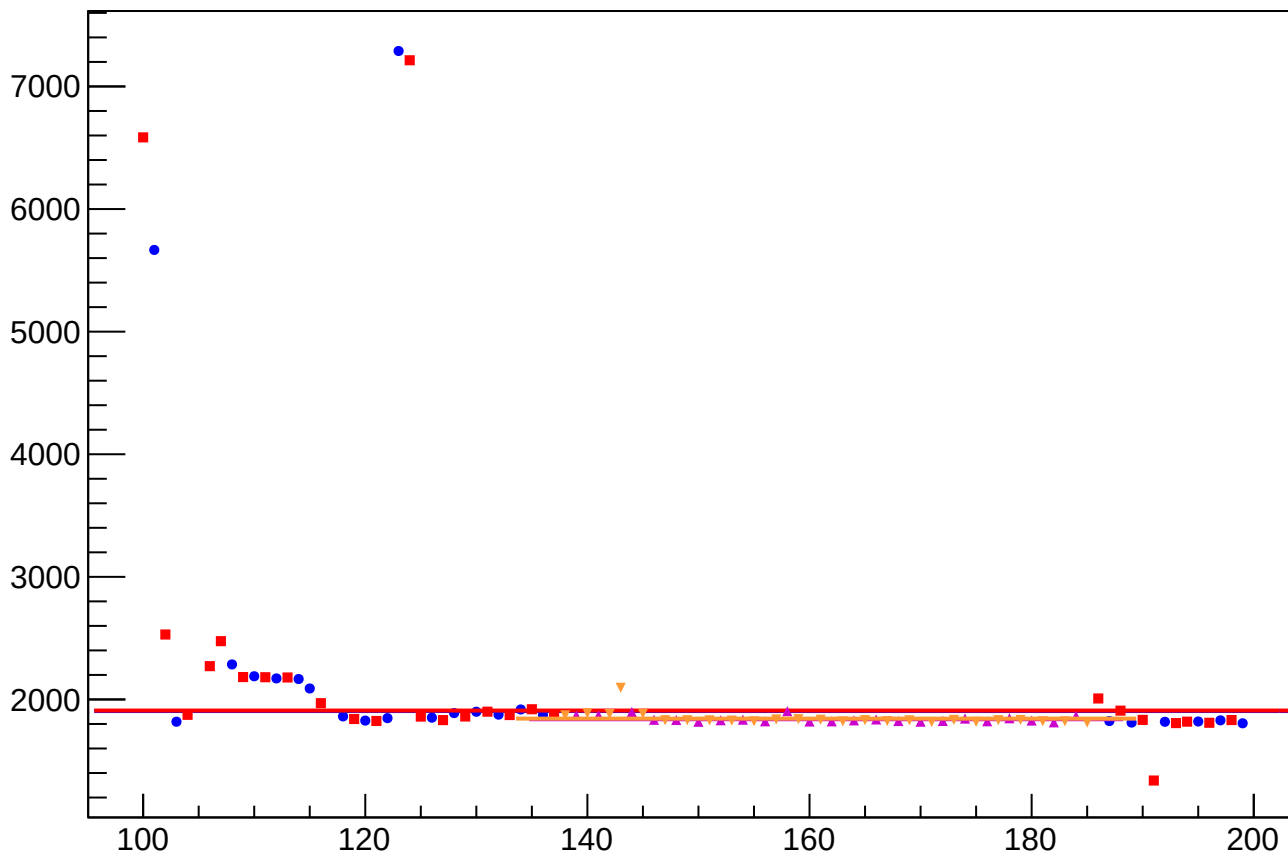
Right: -567.519+/-407.583 χ^2/NDF : 43.6/49

In: -395.210+/-354.635 χ^2/NDF : 53.1/45

Out: -777.230+/-340.894 χ^2/NDF : 52.7/51

All: -593.765+/-245.763 χ^2/NDF : 106.4/97

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: 1909.522+/-0.395 χ^2/NDF : 467588.0/26

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

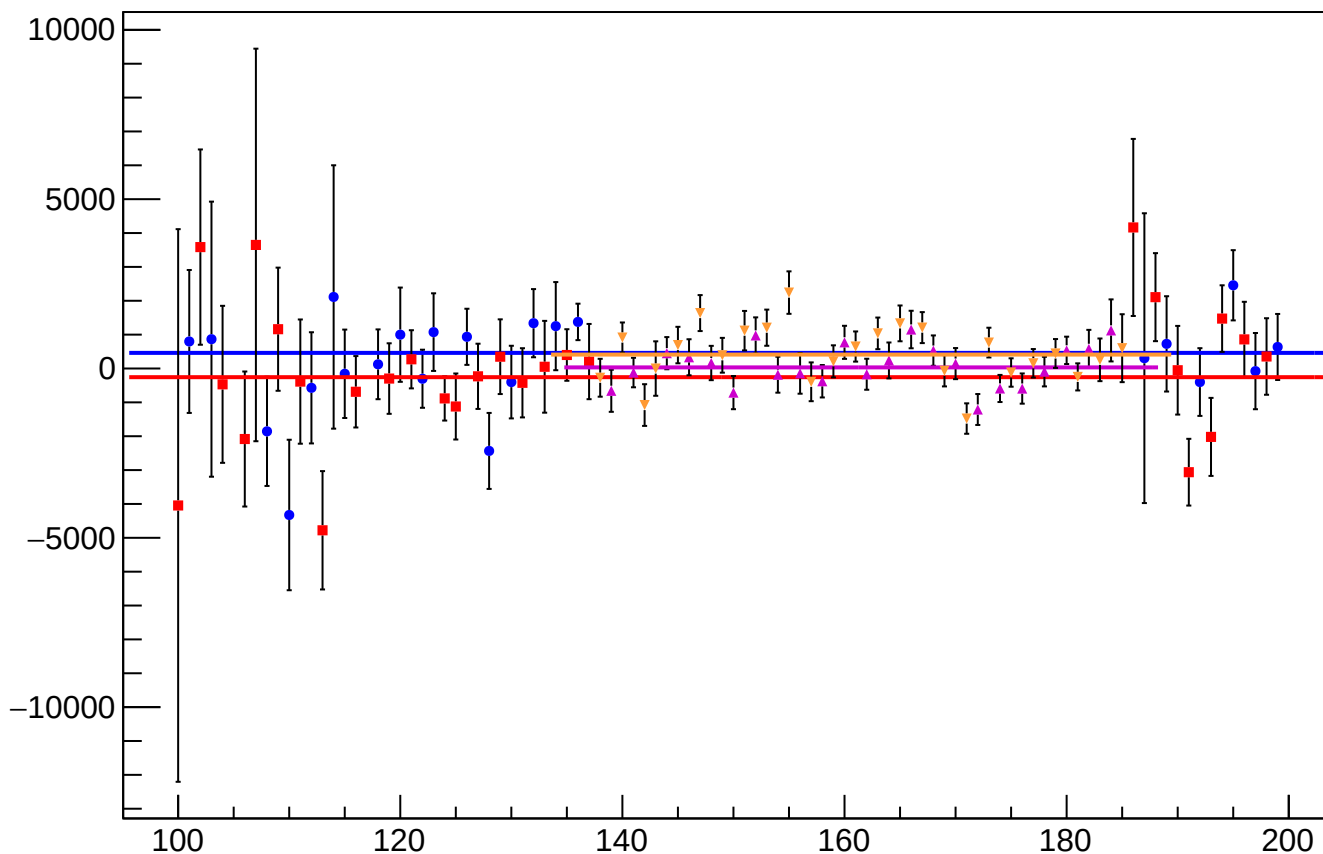
Right: 1907.641+/-0.288 χ^2/NDF : 1101749.4/49

In: 1862.293+/-0.251 χ^2/NDF : 656720.0/45

Out: 1868.241+/-0.241 χ^2/NDF : 511857.5/51

All: 1865.384+/-0.174 χ^2/NDF : 1168869.9/97

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: -256.400 $\pm$ 224.883 χ^2 /NDF: 35.2/26

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

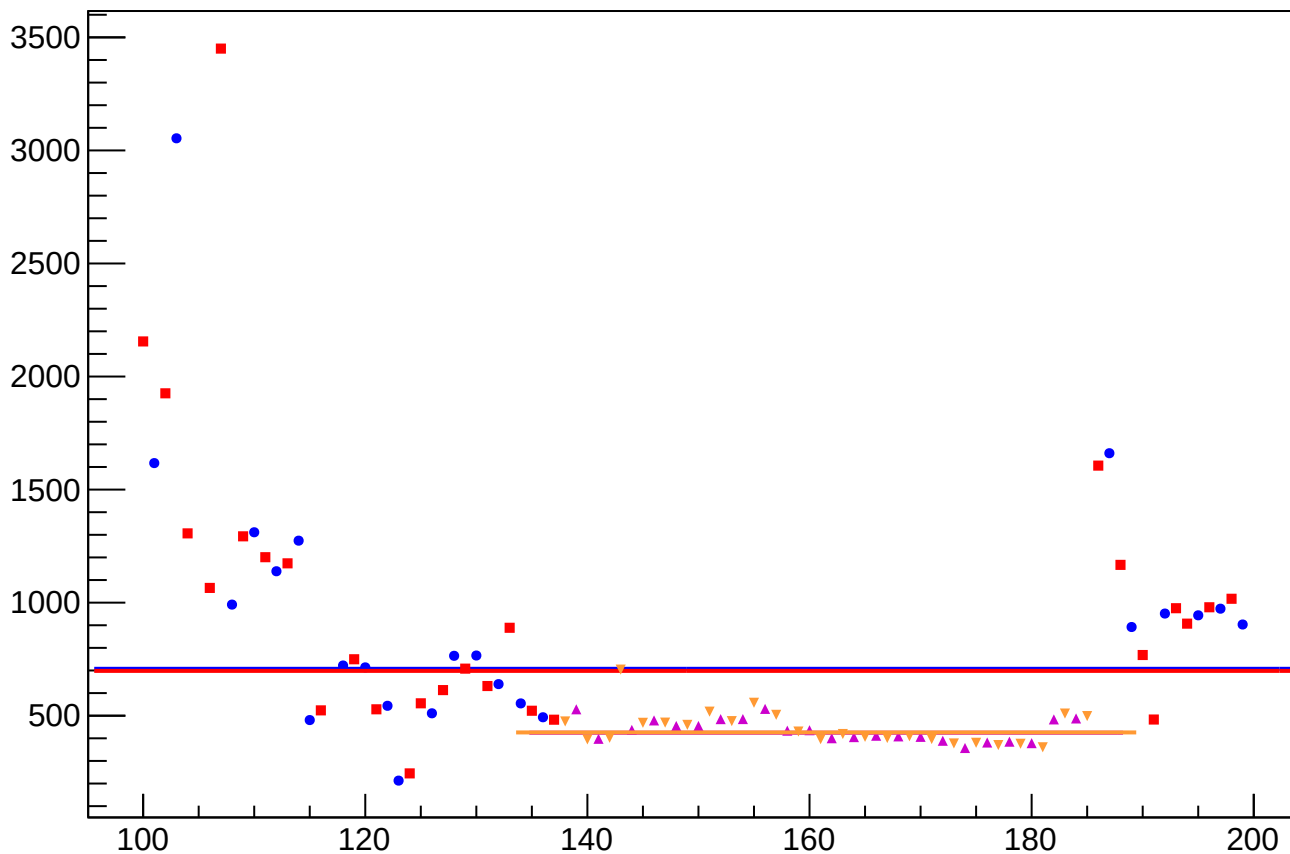
Right: 85.149 $\pm$ 162.802 χ^2 /NDF: 65.3/49

In: 100.405 $\pm$ 93.940 χ^2 /NDF:60.8/45

Out: 300.038 $\pm$ 91.721 χ^2 /NDF:103.7/51

All: 202.608 $\pm$ 65.627 χ^2 /NDF: 166.8/97

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: 698.225 $\pm$ 0.159 χ^2 /NDF: 4081719.6/26

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

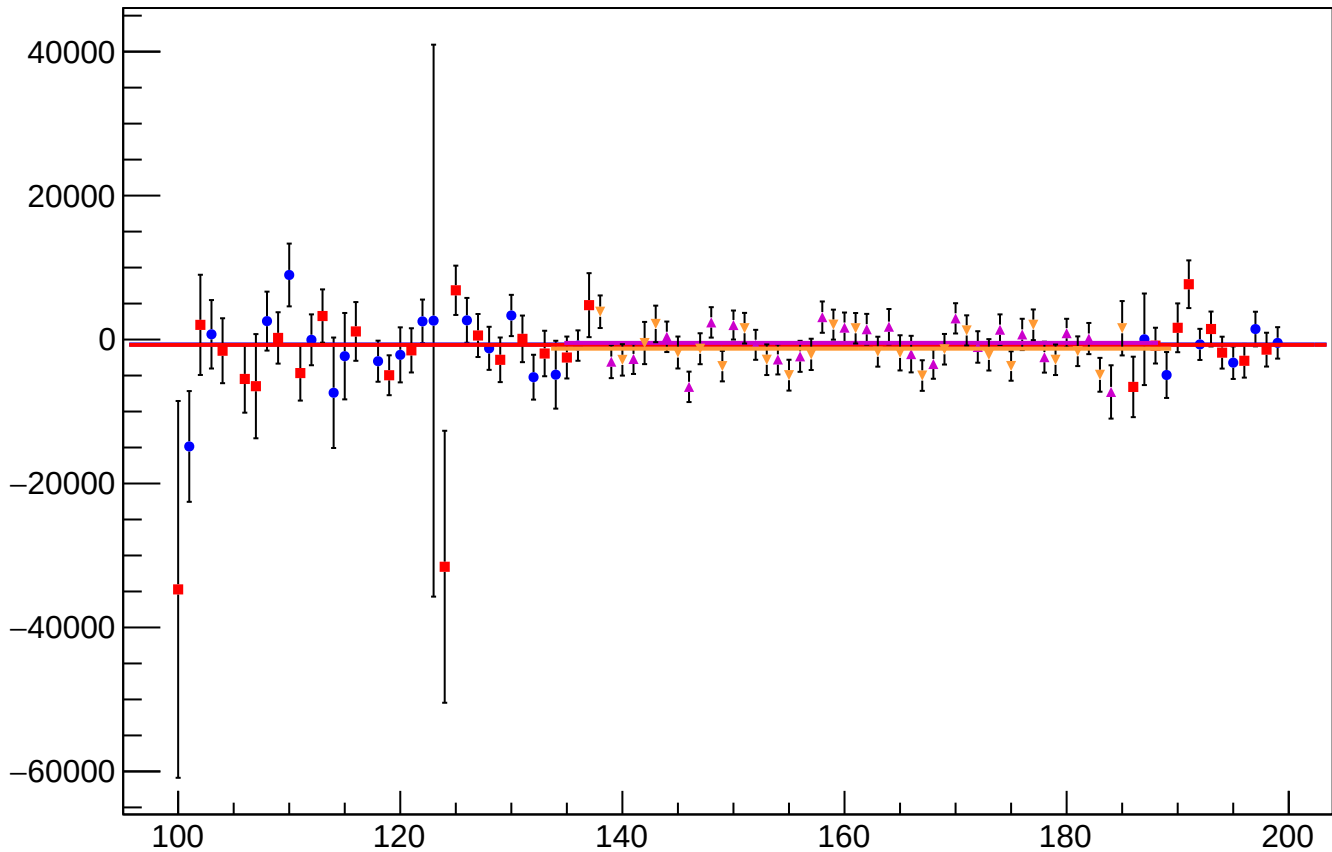
Right: 702.594 $\pm$ 0.115 χ^2 /NDF: 7046138.0/49

In: 469.444 $\pm$ 0.066 χ^2 /NDF:5770827.0/45

Out: 471.307 $\pm$ 0.065 χ^2 /NDF:7257492.0/51

All: 470.398 $\pm$ 0.046 χ^2 /NDF: 13028721.7/97

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -686.354+/-670.666 χ^2/NDF : 21.7/22

Left Out: -1267.885+/-443.219 χ^2/NDF :30.8/24

Right Out: -738.739+/-638.297 χ^2/NDF : 29.7/26

Left In: -462.599+/-453.947 χ^2/NDF :32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

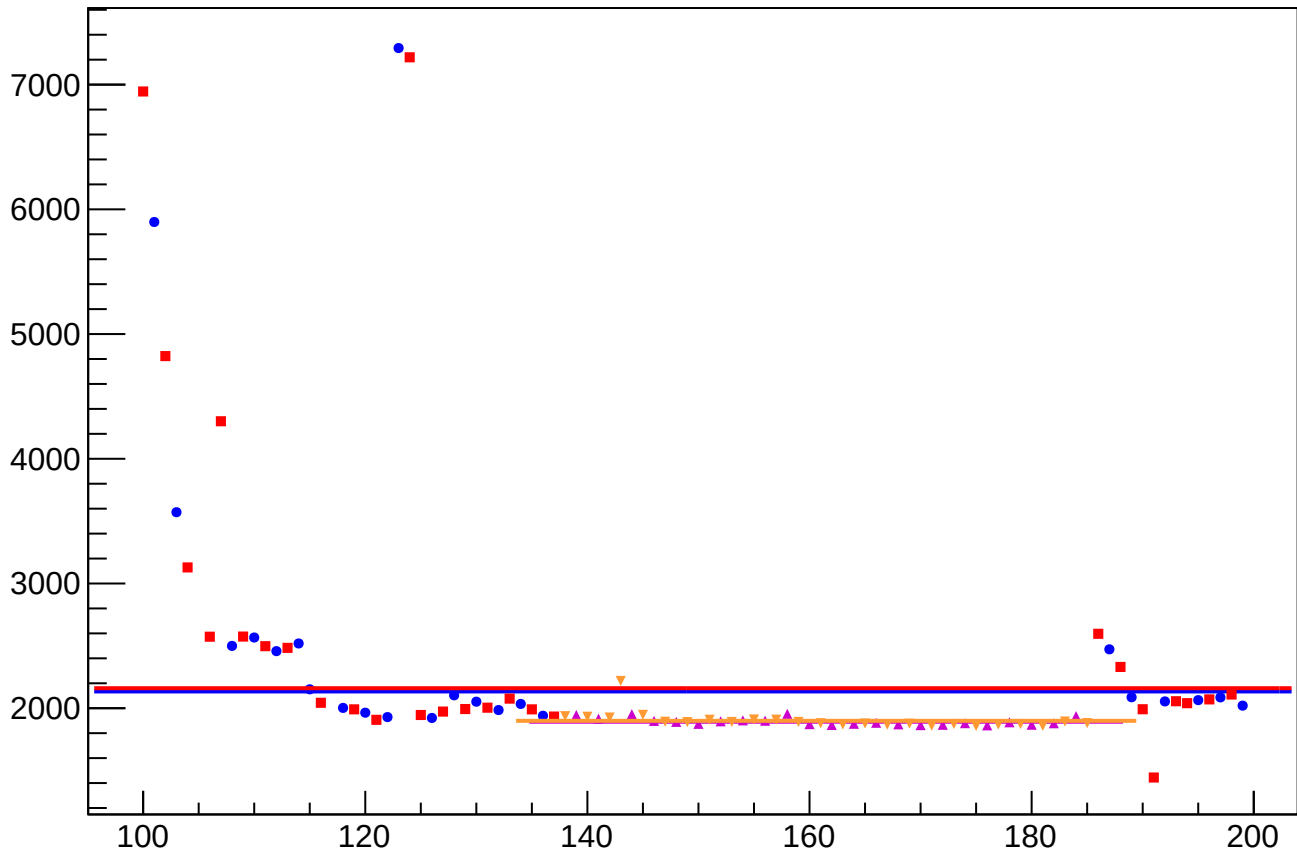
Right: -713.841+/-462.364 χ^2/NDF : 51.4/49

In: -532.902+/-375.929 χ^2/NDF :54.4/45

Out: -1095.749+/-364.058 χ^2/NDF :60.9/51

All: -823.352+/-261.524 χ^2/NDF : 116.5/97

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: 2160.433+/-0.451 χ^2/NDF : 1048491.3/26

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

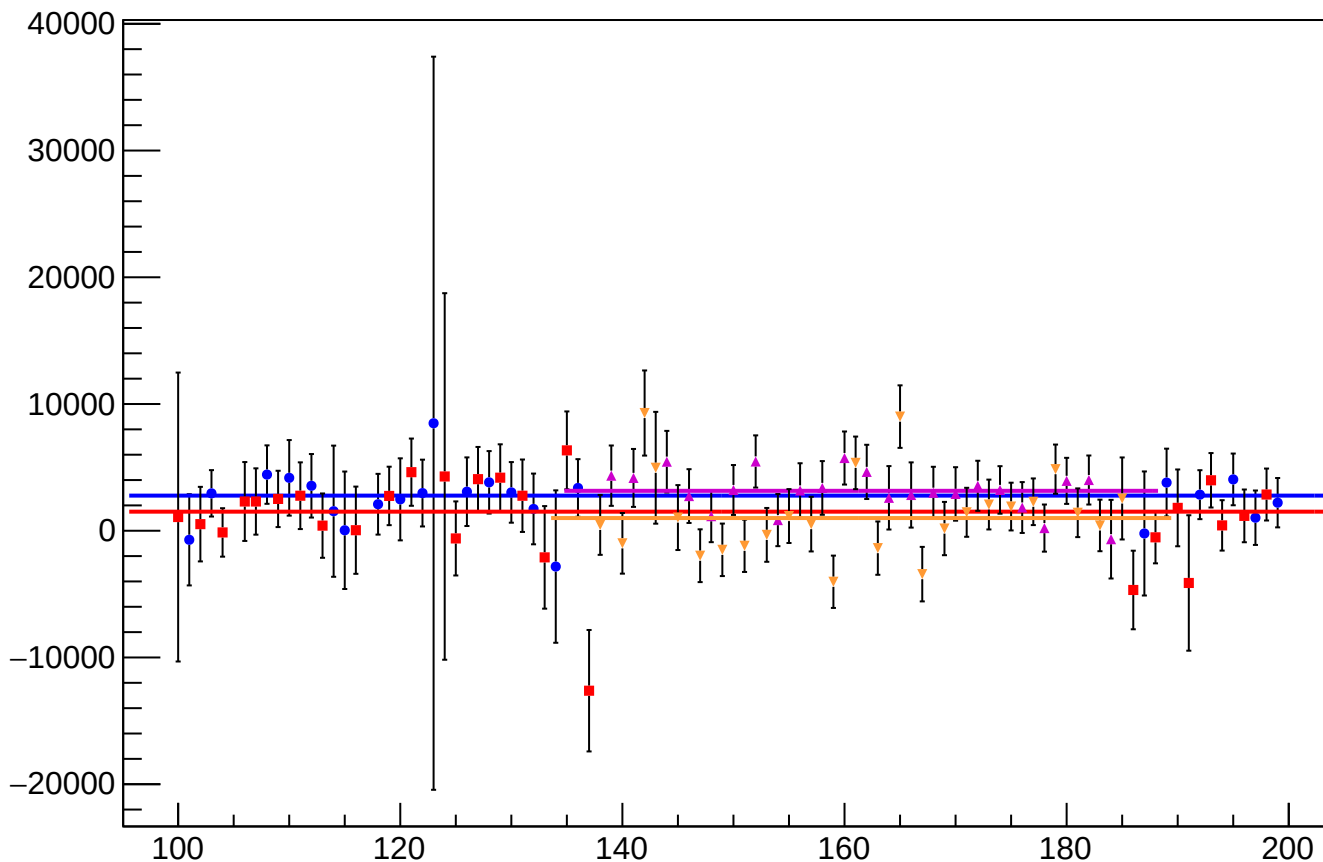
Right: 2148.079+/-0.327 χ^2/NDF : 1873109.9/49

In: 1967.963+/-0.266 χ^2/NDF : 1010154.9/45

Out: 1984.021+/-0.257 χ^2/NDF : 1313603.9/51

All: 1976.249+/-0.185 χ^2/NDF : 2325641.9/97

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: 1505.959 ± 517.041 χ^2/NDF : 26.4/26

Left In: 3150.437 ± 441.145 χ^2/NDF : 11.8/22

Left: 2061.387 ± 309.830 χ^2/NDF : 68.5/47

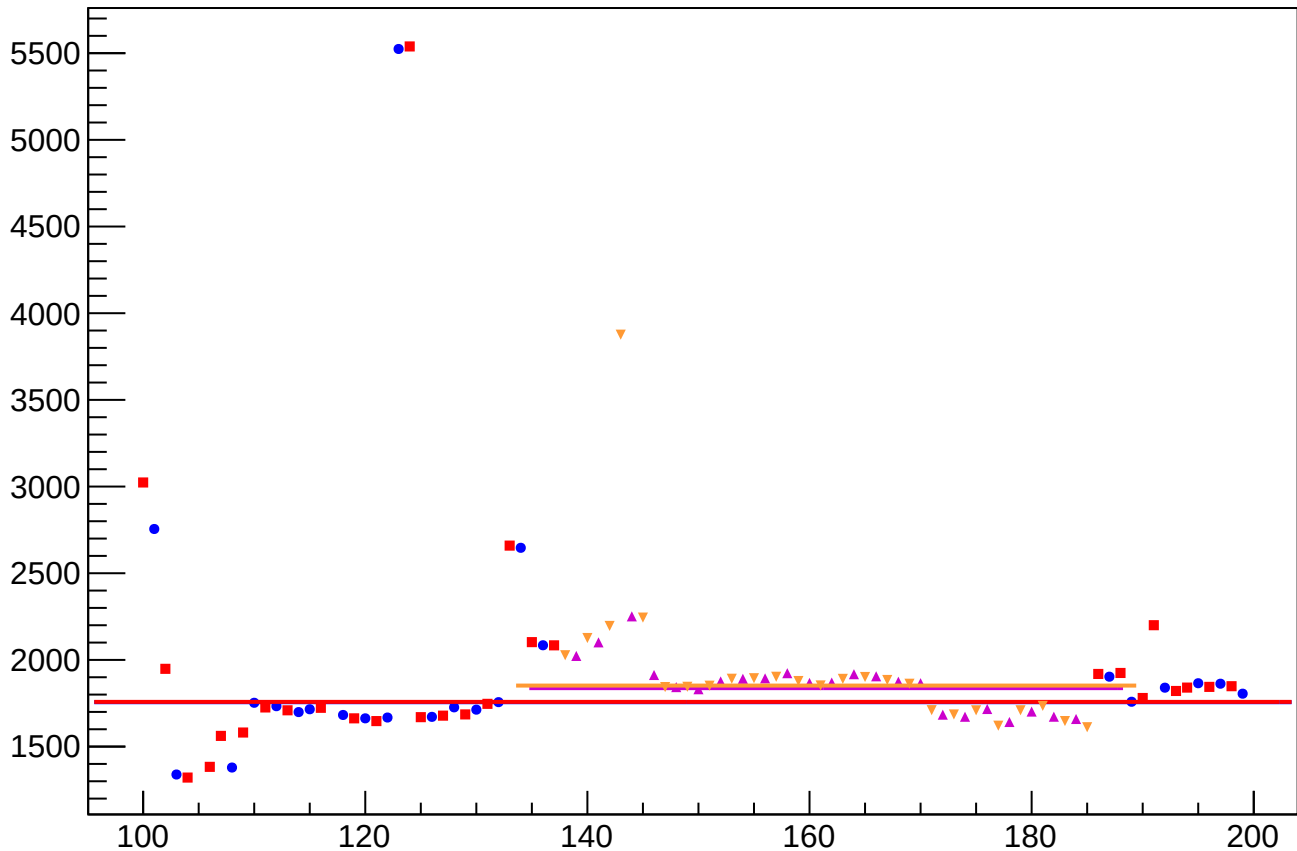
Right: 2102.227 ± 376.087 χ^2/NDF : 34.5/49

In: 3001.704 ± 343.647 χ^2/NDF : 17.4/45

Out: 1210.579 ± 332.975 χ^2/NDF : 71.6/51

All: 2077.899 ± 239.133 χ^2/NDF : 103.0/97

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: 1757.932 $\pm$ 0.366 χ^2 /NDF: 519035.7/26

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

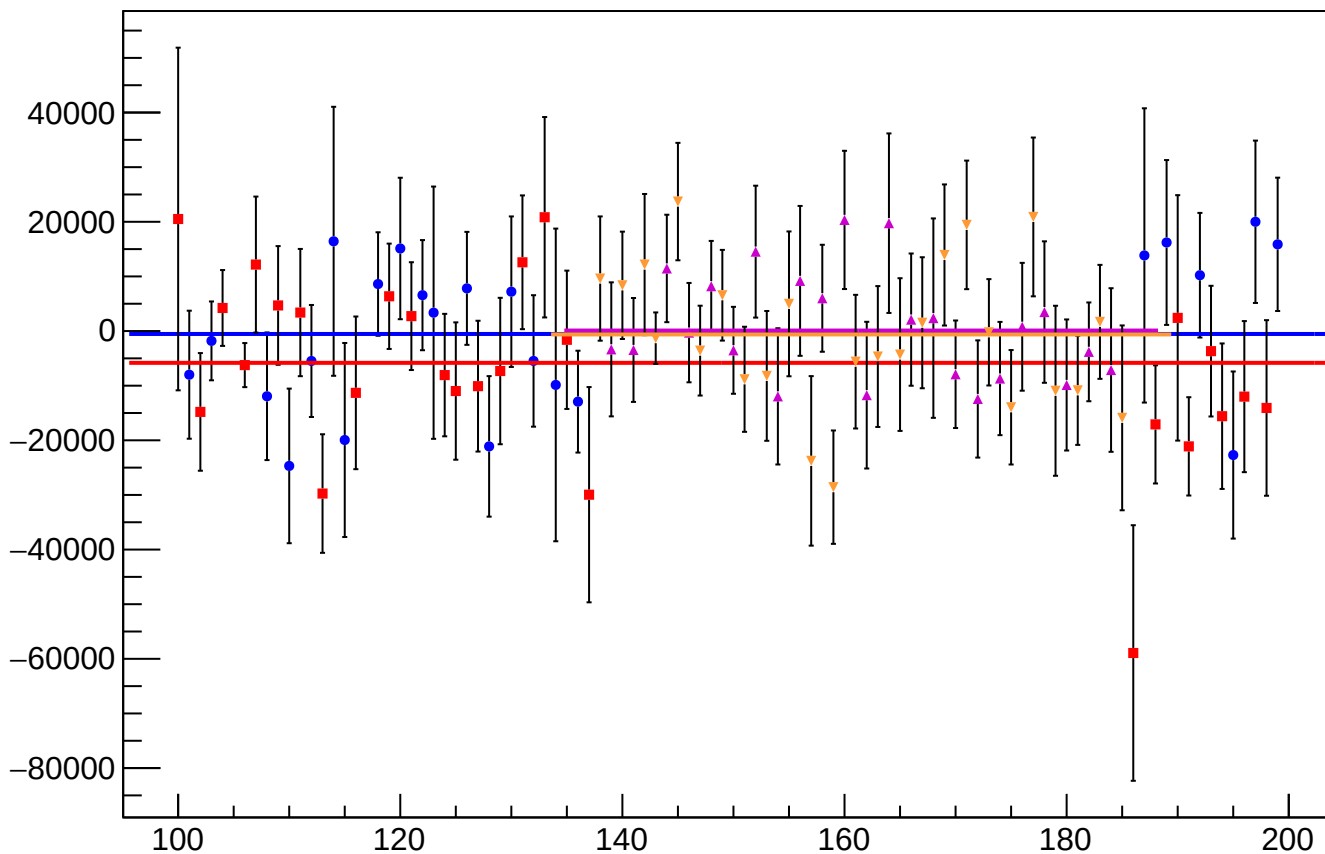
Right: 1756.987 $\pm$ 0.266 χ^2 /NDF: 976689.3/49

In: 1805.215 $\pm$ 0.243 χ^2 /NDF: 684811.3/45

Out: 1812.962 $\pm$ 0.235 χ^2 /NDF: 1206701.3/51

All: 1809.211 $\pm$ 0.169 χ^2 /NDF: 1892036.8/97

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: -5818.403 $\pm$ 2038.944 χ^2 /NDF: 31.1/26

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

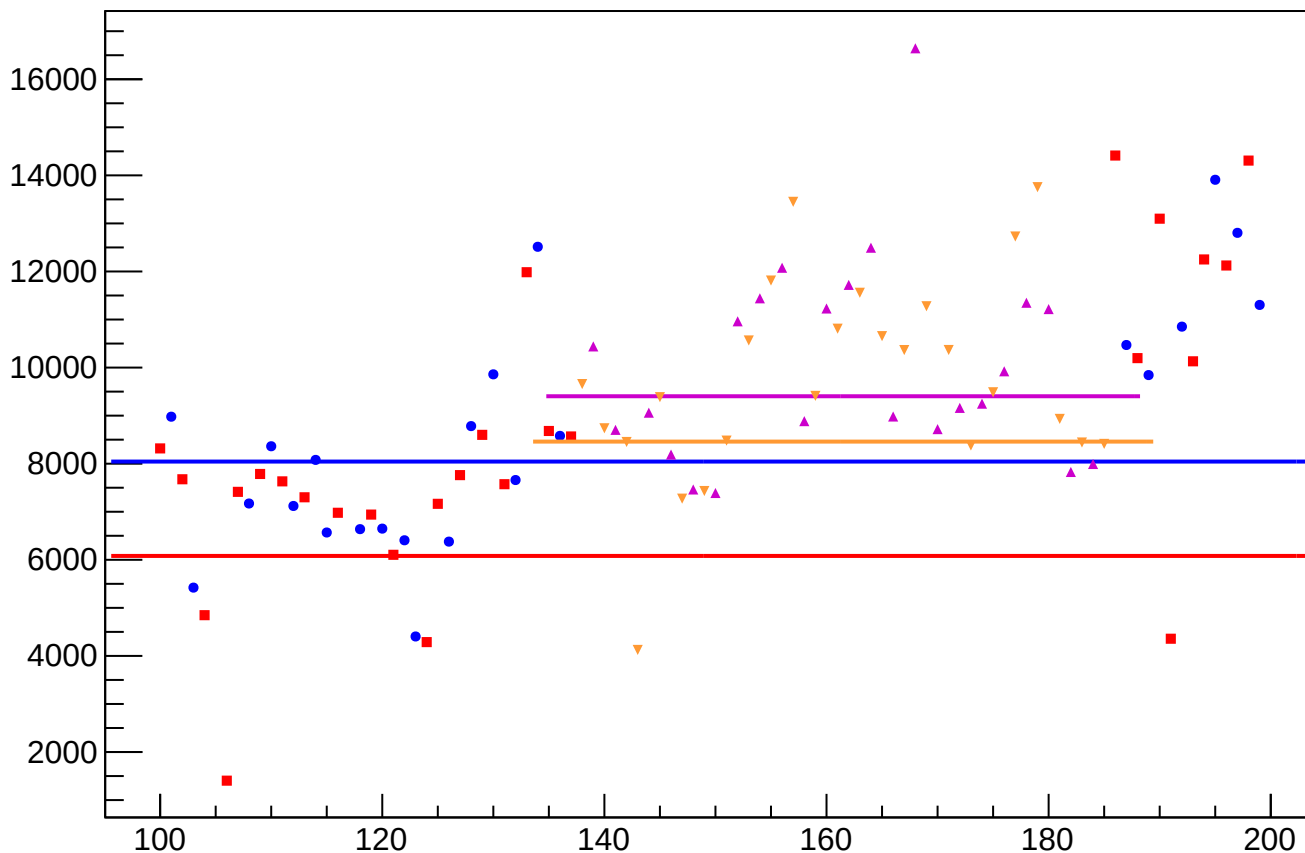
Right: -3778.715 $\pm$ 1597.634 χ^2 /NDF: 56.7/49

In: -184.976 $\pm$ 1711.725 χ^2 /NDF:37.6/45

Out: -3257.786 $\pm$ 1452.498 χ^2 /NDF:64.5/51

All: -1971.441 $\pm$ 1107.503 χ^2 /NDF: 103.9/97

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8044.343+/-1.818 χ^2/NDF : 1447339.6/22

Left Out: 8459.960+/-1.463 χ^2/NDF : 3087200.5/24

Right Out: 6080.659+/-1.442 χ^2/NDF : 5869066.5/26

Left In: 9403.481+/-1.622 χ^2/NDF : 1142646.9/22

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

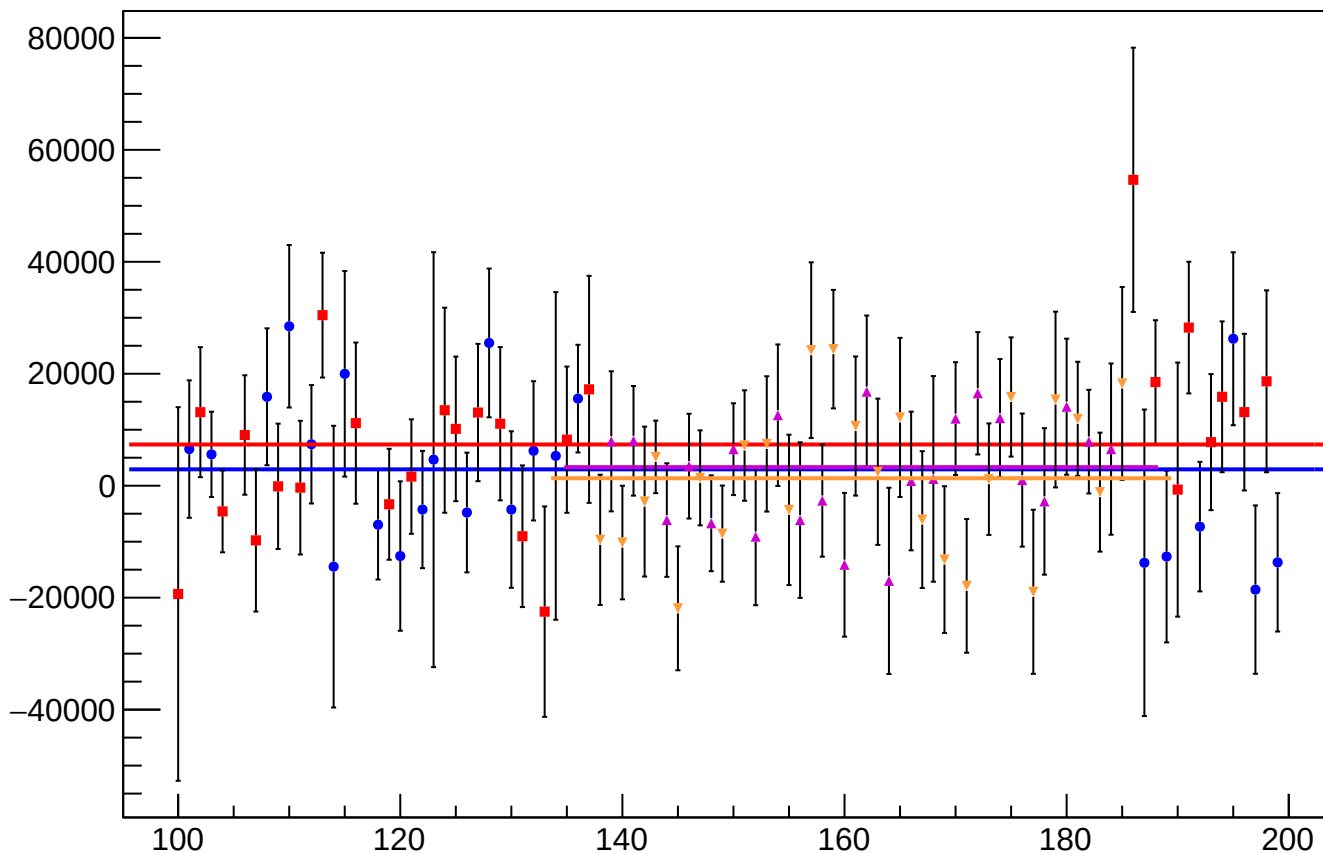
Right: 6838.709+/-1.130 χ^2/NDF : 8032531.3/49

In: 8801.195+/-1.210 χ^2/NDF : 2901140.7/45

Out: 7252.508+/-1.027 χ^2/NDF : 10297612.1/51

All: 7900.822+/-0.783 χ^2/NDF : 14150558.0/9

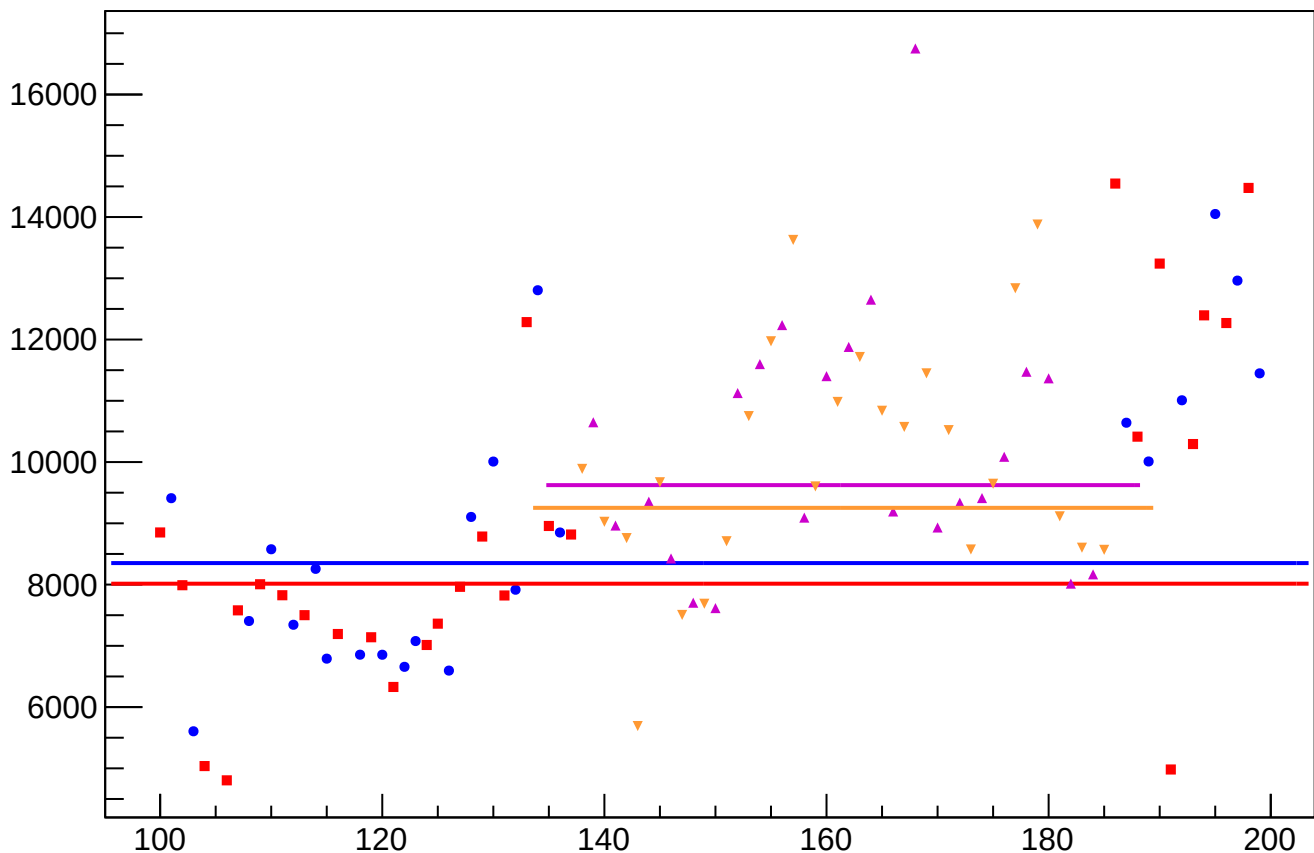
asym_at2_avg_mean vs Slug, Sign Corrected



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: 7361.929 $\pm$ 2437.887 χ^2 /NDF: 26.4/26
 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: 5339.950 $\pm$ 1798.643 χ^2 /NDF: 50.5/49
 In: 3145.690 $\pm$ 1760.159 χ^2 /NDF:36.3/45
 Out: 4057.520 $\pm$ 1638.875 χ^2 /NDF:57.8/51
 All: 3634.099 $\pm$ 1199.447 χ^2 /NDF: 94.2/97

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: 8014.426 $\pm$ 1.724 χ^2/NDF : 2002685.2/26

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

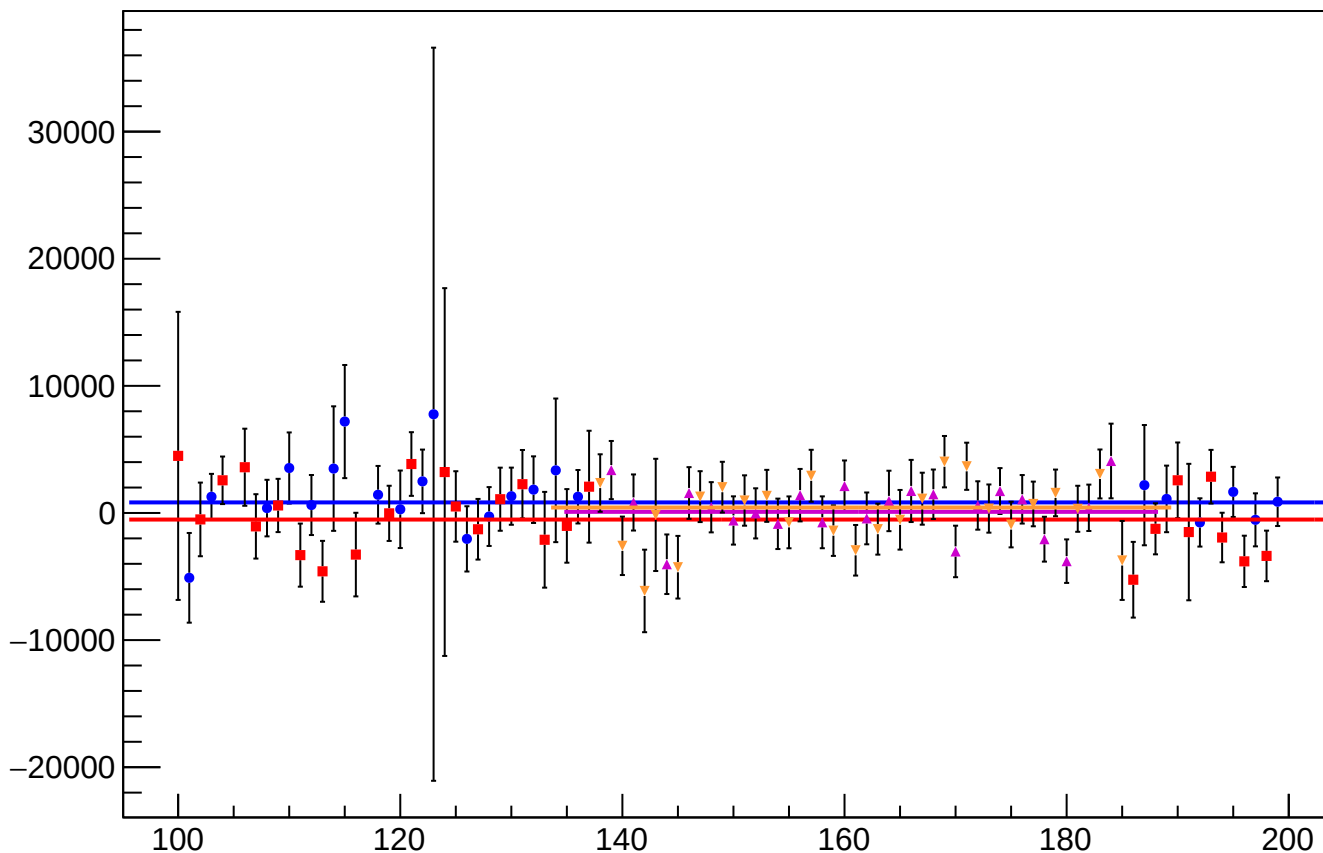
Right: 8167.757 $\pm$ 1.272 χ^2/NDF : 3337497.4/49

In: 9068.165 $\pm$ 1.245 χ^2/NDF : 2644483.4/45

Out: 8693.040 $\pm$ 1.159 χ^2/NDF : 3883189.5/51

All: 8867.228 $\pm$ 0.848 χ^2/NDF : 6576332.7/97

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 830.432 ± 525.478 $\chi^2/\text{NDF}: 10.1/22$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -518.035 ± 496.715 $\chi^2/\text{NDF}: 27.0/26$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

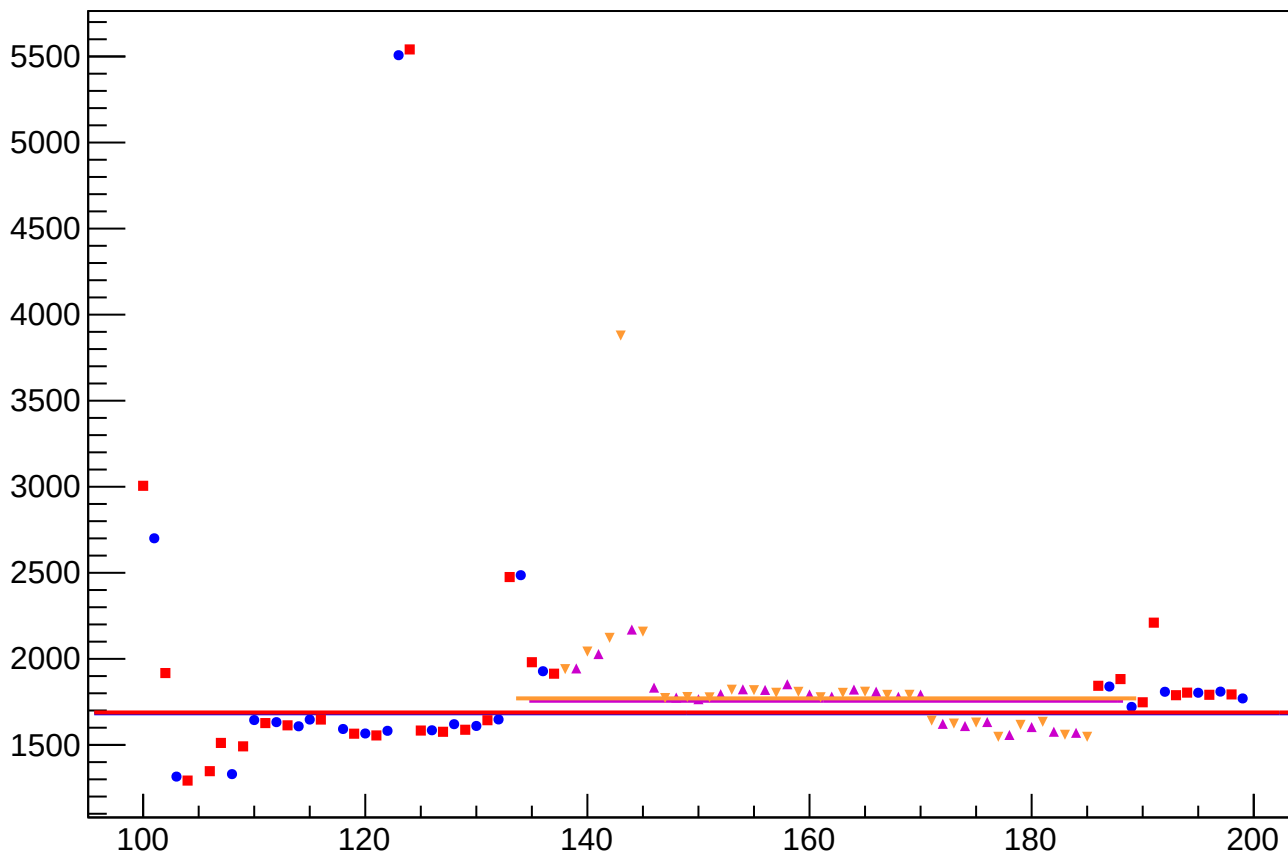
Right: 118.285 ± 360.970 $\chi^2/\text{NDF}: 40.5/49$

In: 379.279 ± 329.012 $\chi^2/\text{NDF}: 32.3/45$

Out: 38.428 ± 319.095 $\chi^2/\text{NDF}: 57.8/51$

All: 203.639 ± 229.060 $\chi^2/\text{NDF}: 90.6/97$

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: 1688.562 $\pm$ 0.351 χ^2 /NDF: 529284.4/26

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

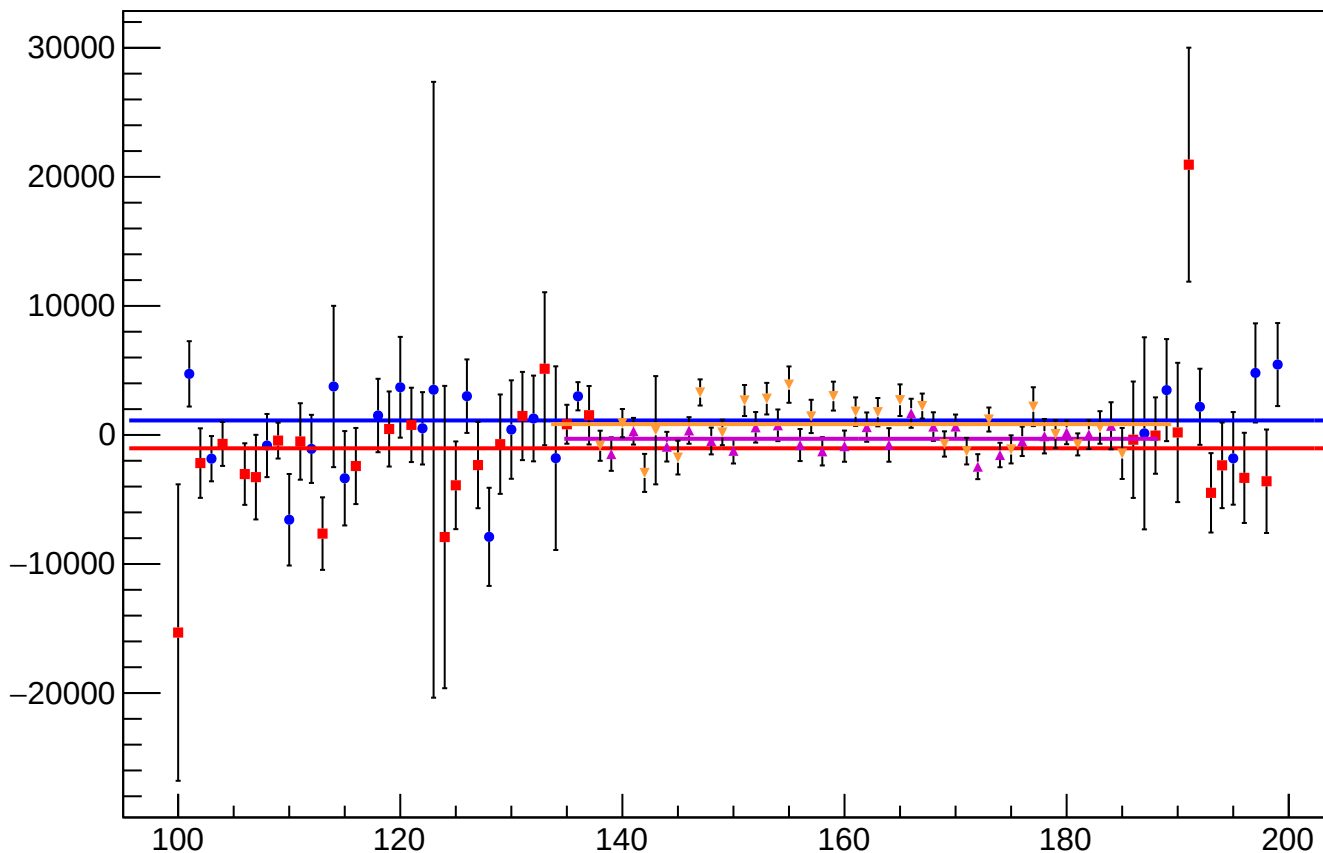
Right: 1686.276 $\pm$ 0.255 χ^2 /NDF: 980307.6/49

In: 1728.042 $\pm$ 0.233 χ^2 /NDF: 697417.2/45

Out: 1736.616 $\pm$ 0.226 χ^2 /NDF: 1260694.2/51

All: 1732.461 $\pm$ 0.162 χ^2 /NDF: 1958811.3/97

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: -1034.159+/-540.848 χ^2/NDF : 23.5/26

Left In: -298.801+/-231.400 χ^2/NDF : 18.3/22

Left: 272.574+/-163.293 χ^2/NDF : 84.9/47

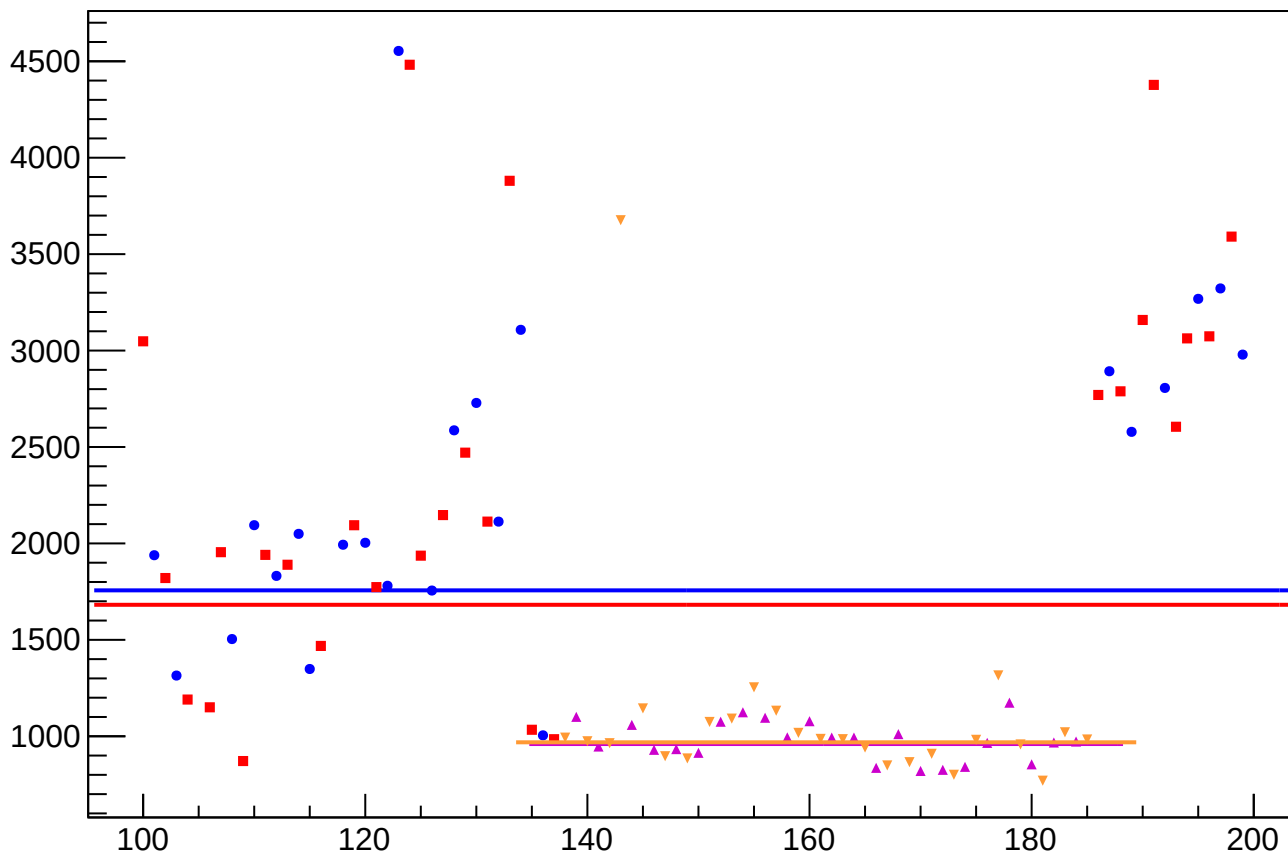
Right: -36.807+/-396.682 χ^2/NDF : 57.1/49

In: -105.442+/-215.106 χ^2/NDF : 49.7/45

Out: 551.437+/-212.019 χ^2/NDF : 88.0/51

All: 227.745+/-151.000 χ^2/NDF : 142.5/97

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: 1681.738+/-0.382 χ^2/NDF : 4204449.1/26

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

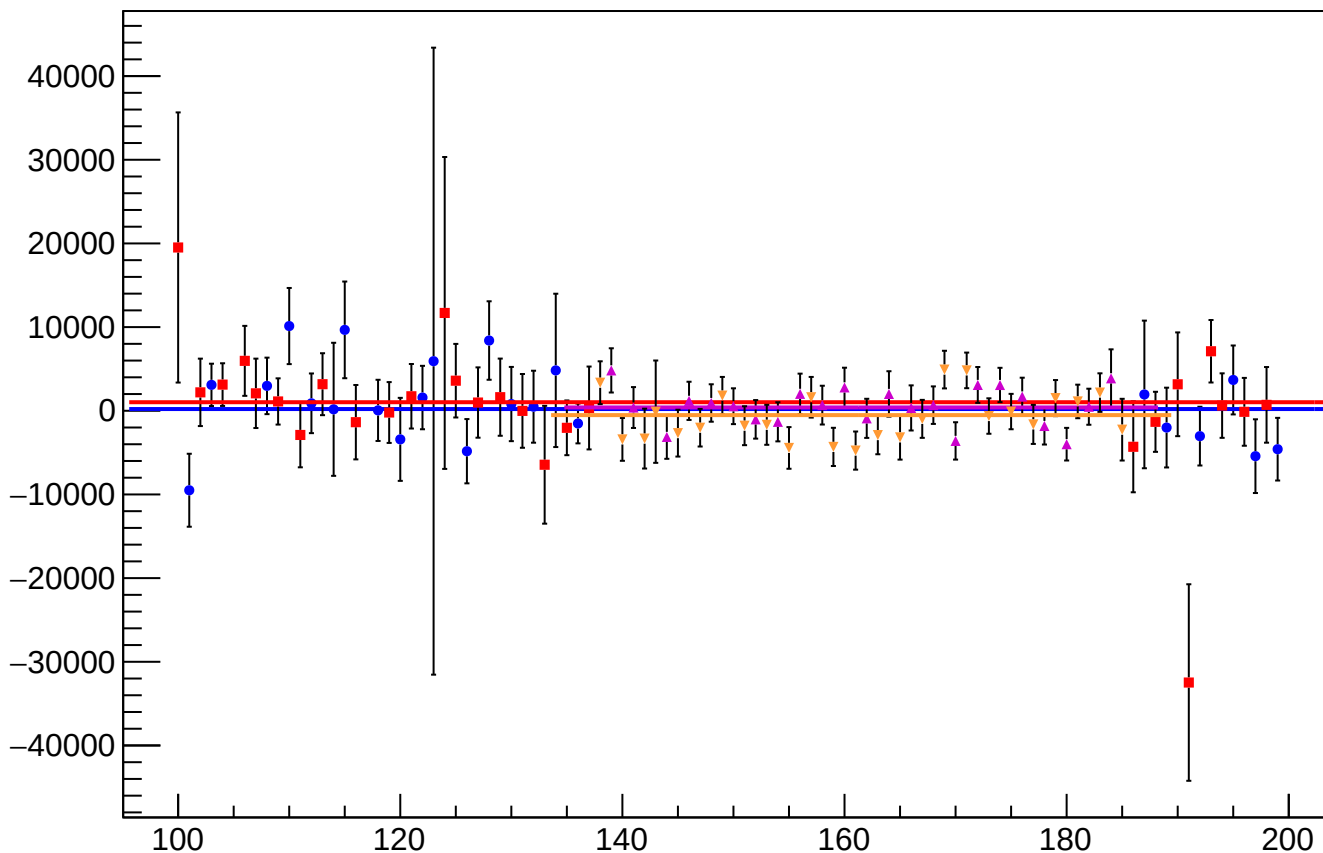
Right: 1716.333+/-0.280 χ^2/NDF : 7106747.1/49

In: 1068.065+/-0.152 χ^2/NDF : 6477811.7/45

Out: 1078.285+/-0.150 χ^2/NDF : 8540051.2/51

All: 1073.249+/-0.107 χ^2/NDF : 15020152.6/99

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: 1023.078+/-801.516 χ^2/NDF : 20.5/26

Left In: 397.398+/-485.048 χ^2/NDF :21.8/22

Left: -63.533+/-341.714 χ^2/NDF : 57.7/47

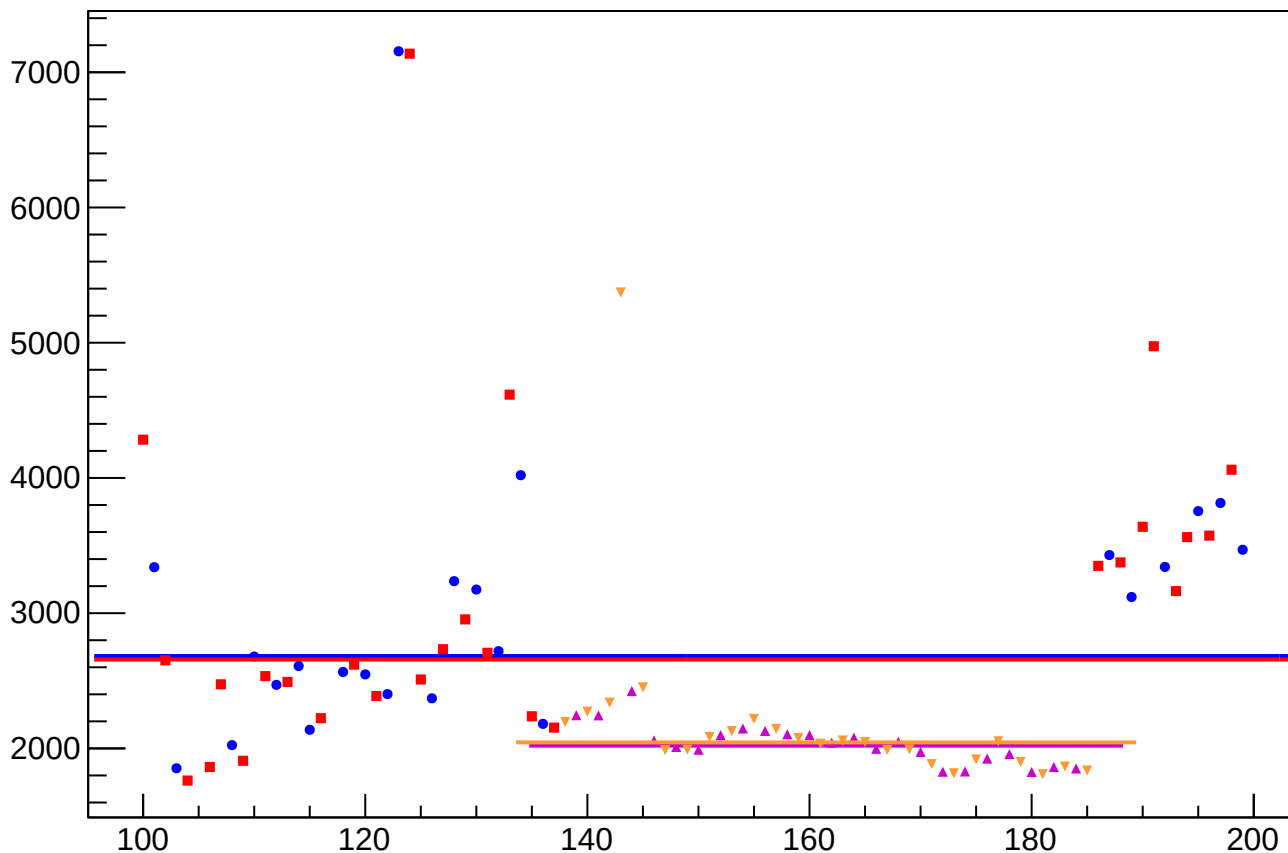
Right: 639.602+/-583.413 χ^2/NDF : 46.7/49

In: 350.816+/-421.383 χ^2/NDF :47.6/45

Out: -109.142+/-412.740 χ^2/NDF :57.3/51

All: 116.071+/-294.859 χ^2/NDF : 105.5/97

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2683.191+/-0.602 χ^2/NDF : 1059126.9/22

Left Out: 2044.722+/-0.340 χ^2/NDF : 788703.5/24

Right Out: 2657.174+/-0.567 χ^2/NDF : 1542593.0/26

Left In: 2020.802+/-0.343 χ^2/NDF : 173502.0/22

Left: 2032.850+/-0.242 χ^2/NDF : 964655.5/47

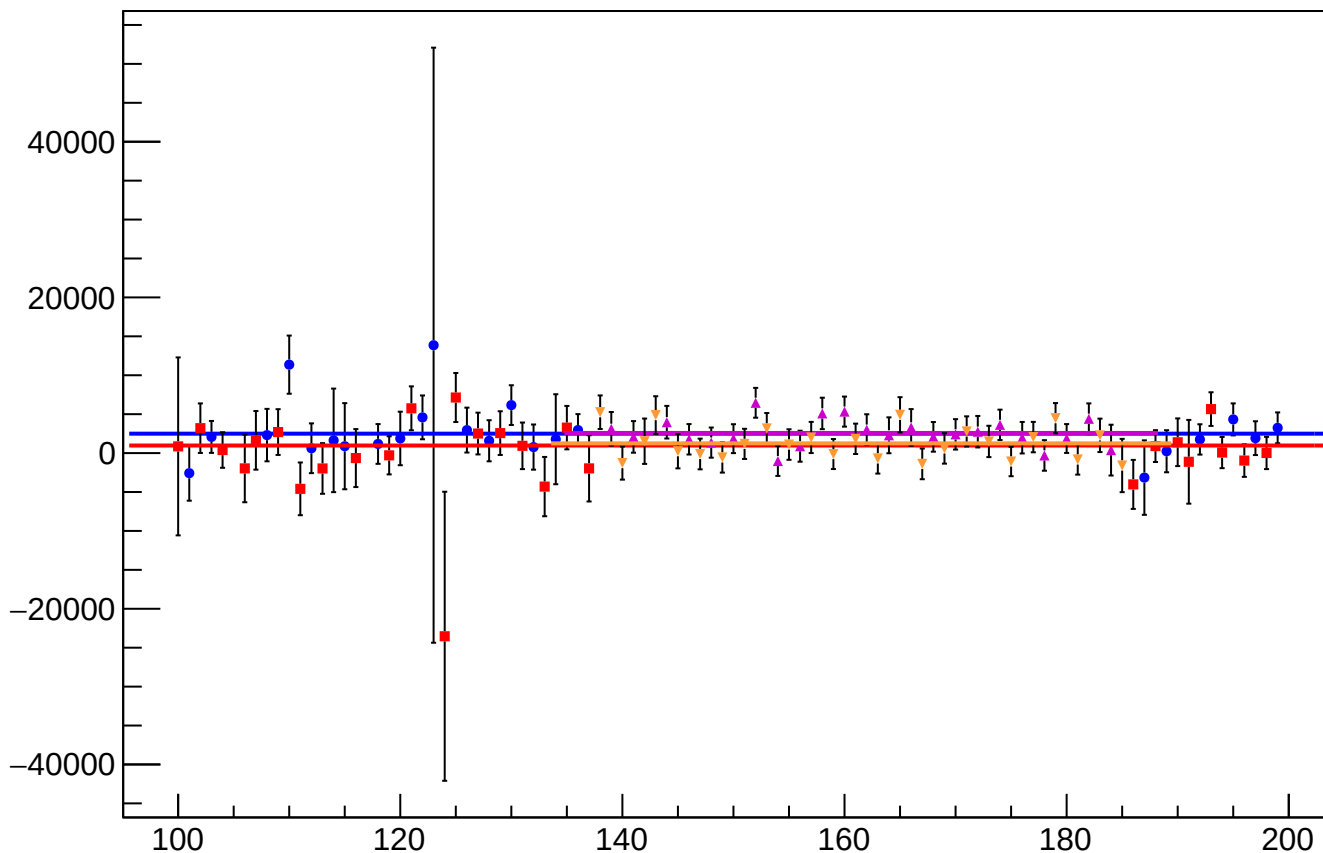
Right: 2669.407+/-0.413 χ^2/NDF : 2602710.7/49

In: 2183.274+/-0.298 χ^2/NDF : 2147488.4/45

Out: 2207.129+/-0.292 χ^2/NDF : 3189394.7/51

All: 2195.448+/-0.208 χ^2/NDF : 5340154.2/97

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: 973.945+/-557.038 χ^2/NDF : 26.2/26

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

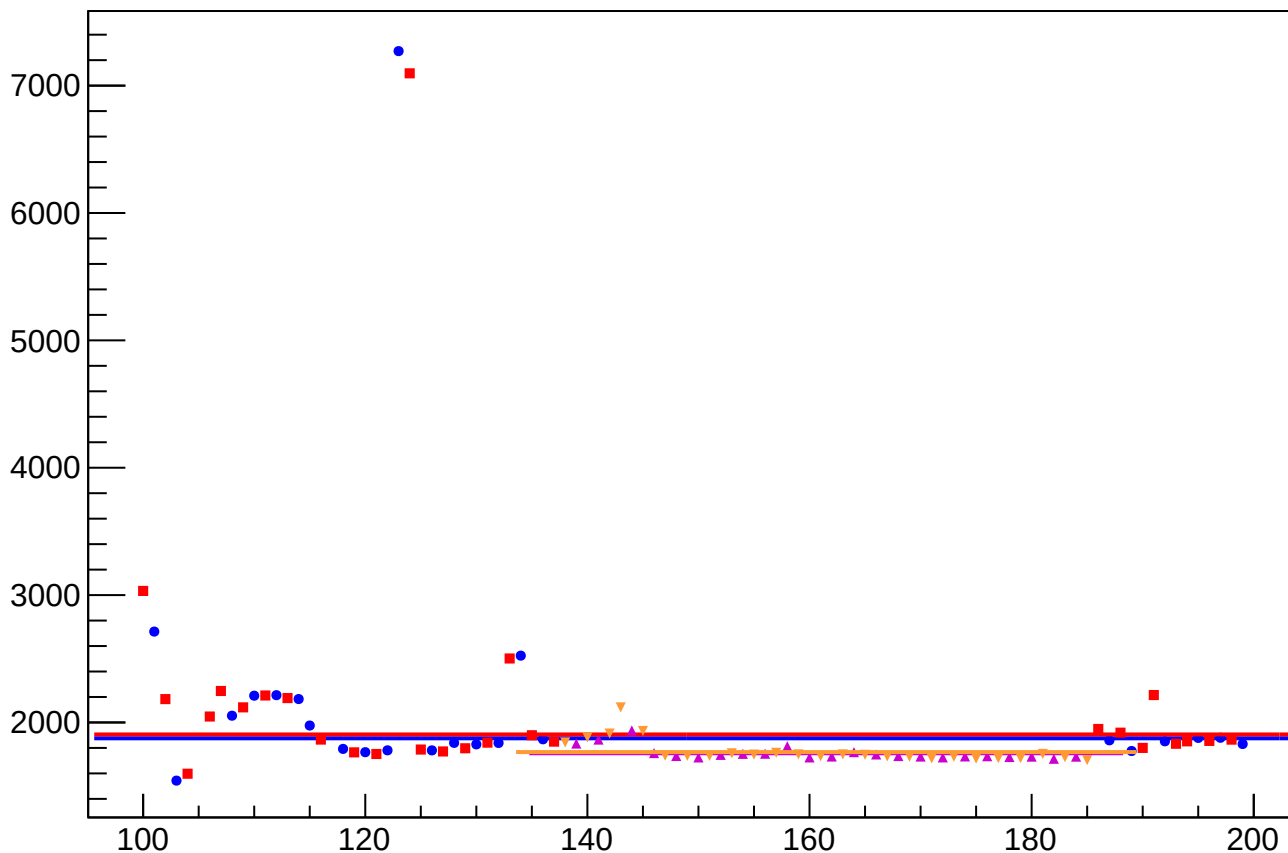
Right: 1700.930+/-402.545 χ^2/NDF : 44.7/49

In: 2555.524+/-341.458 χ^2/NDF : 32.5/45

Out: 1152.183+/-331.494 χ^2/NDF : 49.3/51

All: 1833.081+/-237.846 χ^2/NDF : 90.5/97

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: 1905.757+/-0.394 χ^2/NDF : 377405.6/26

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

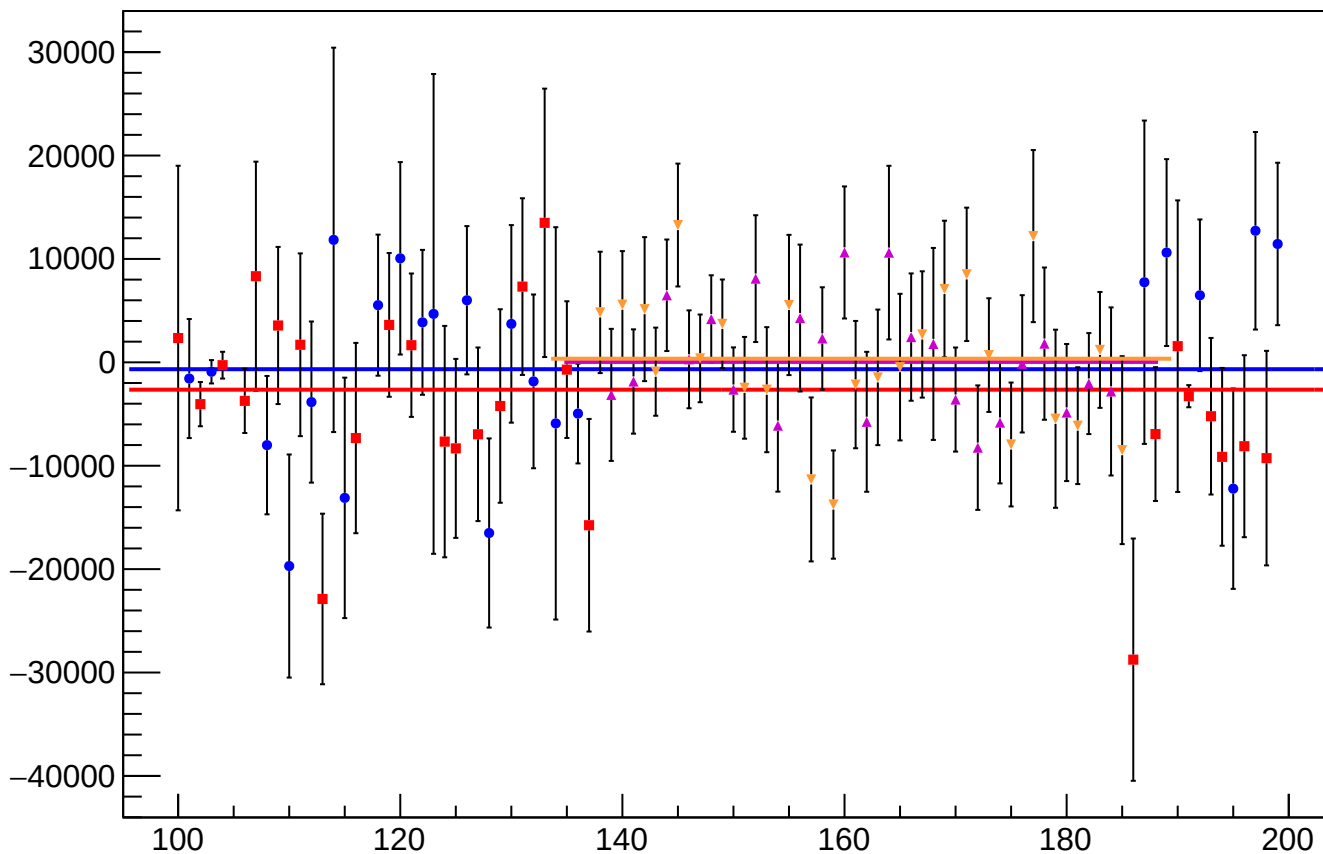
Right: 1891.342+/-0.285 χ^2/NDF : 673027.6/49

In: 1798.463+/-0.241 χ^2/NDF : 376027.3/45

Out: 1816.530+/-0.234 χ^2/NDF : 534726.3/51

All: 1807.767+/-0.168 χ^2/NDF : 913637.1/97

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Left: 200.813+/-840.276 χ^2/NDF : 43.9/47

Right: -1960.533+/-559.678 χ^2/NDF : 51.4/49

In: -394.437+/-747.693 χ^2/NDF : 38.5/45

Out: -1868.424+/-595.493 χ^2/NDF : 58.9/51

All: -1296.335+/-465.809 χ^2/NDF : 99.8/97

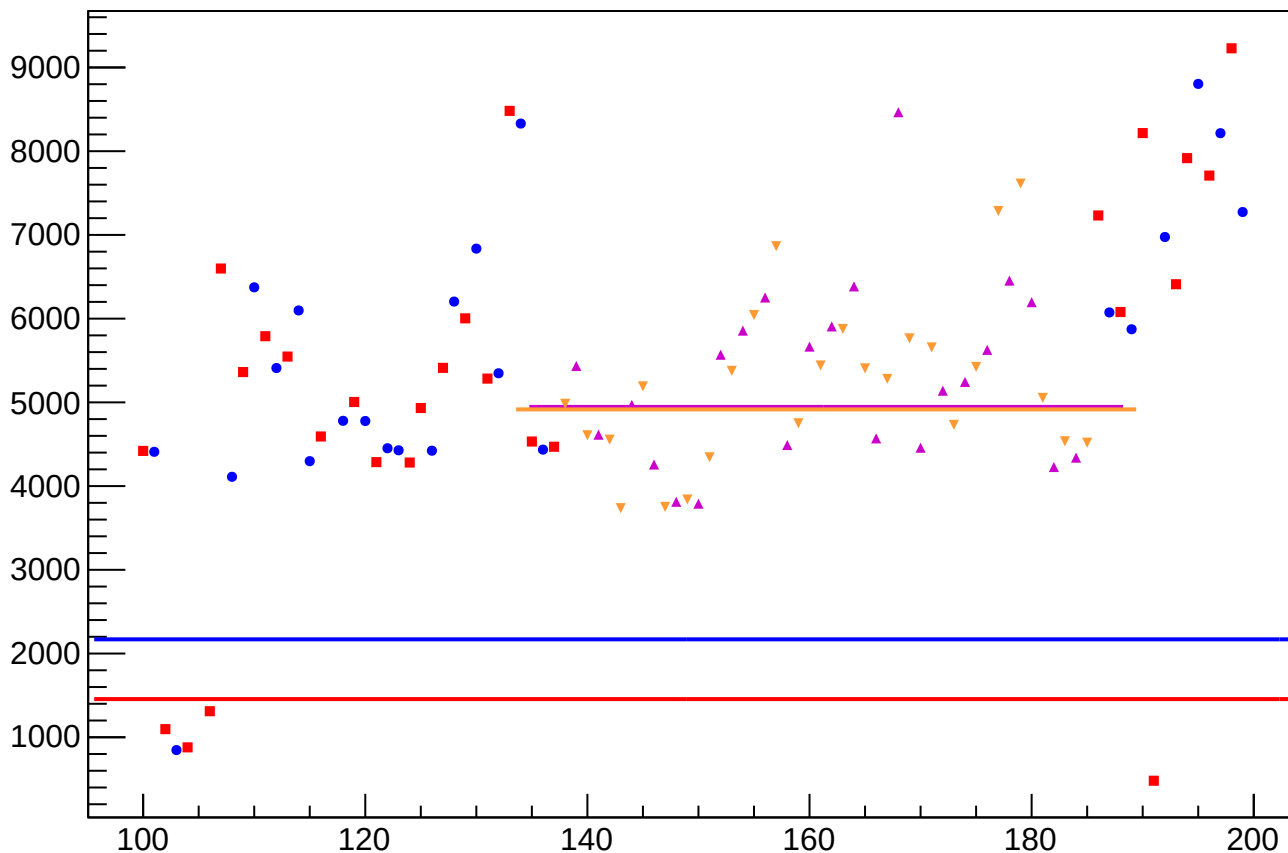
Right In: -664.979+/-952.204 χ^2/NDF : 22.3/22

Left Out: 351.227+/-1170.051 χ^2/NDF : 27.8/24

Right Out: -2644.357+/-691.791 χ^2/NDF : 26.2/26

Left In: 40.618+/-1207.491 χ^2/NDF : 16.0/22

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: 1702.492+/-0.396

χ^2/NDF : 25587866.1/49

Right Out: 1455.950+/-0.489

χ^2/NDF : 14245249.5/26

In: 3234.057+/-0.529

χ^2/NDF : 18314333.3/45

Out: 2352.156+/-0.421

χ^2/NDF : 28390215.5/51

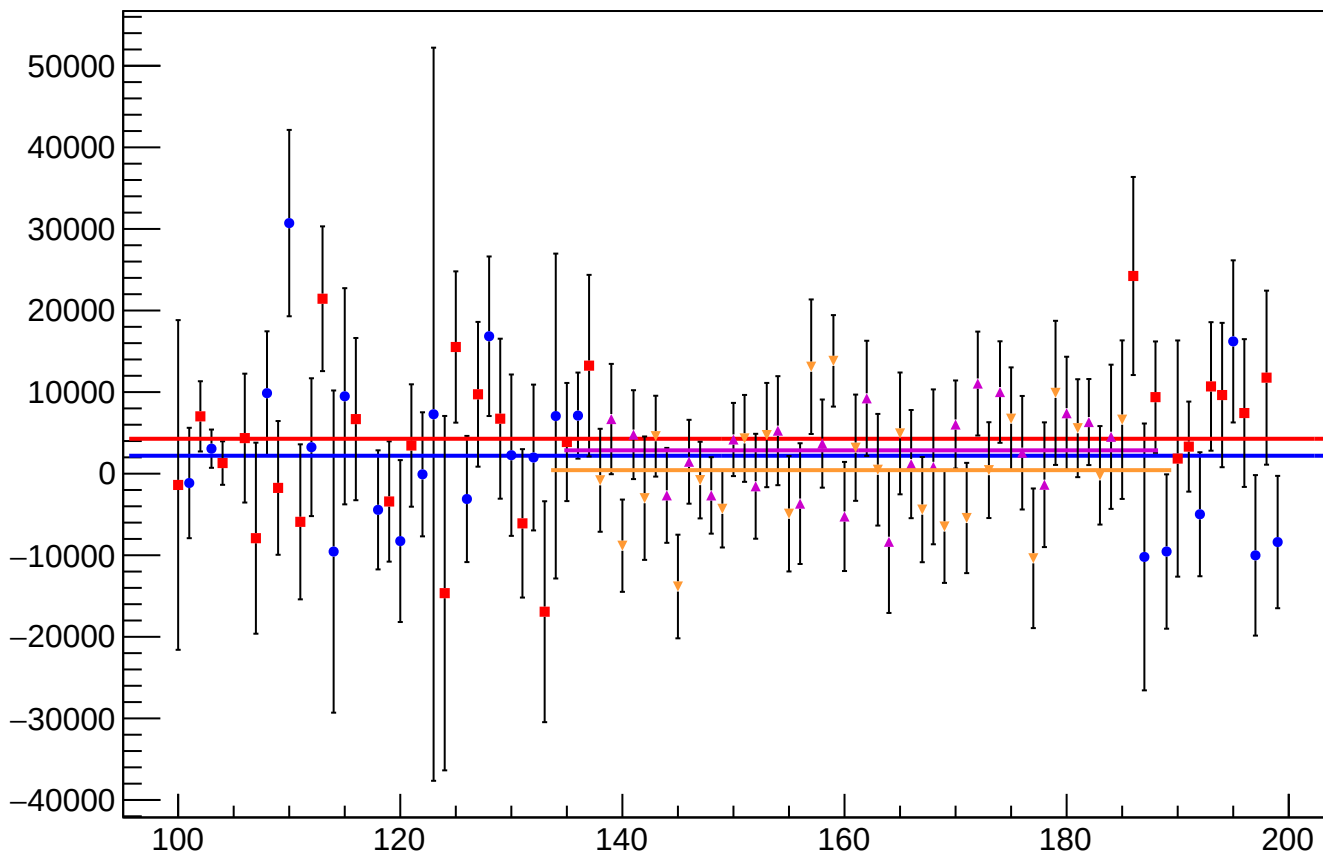
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2694.442+/-0.329

χ^2/NDF : 48407045.6/9

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: 4278.115+/-1410.788 χ^2/NDF : 21.4/26

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

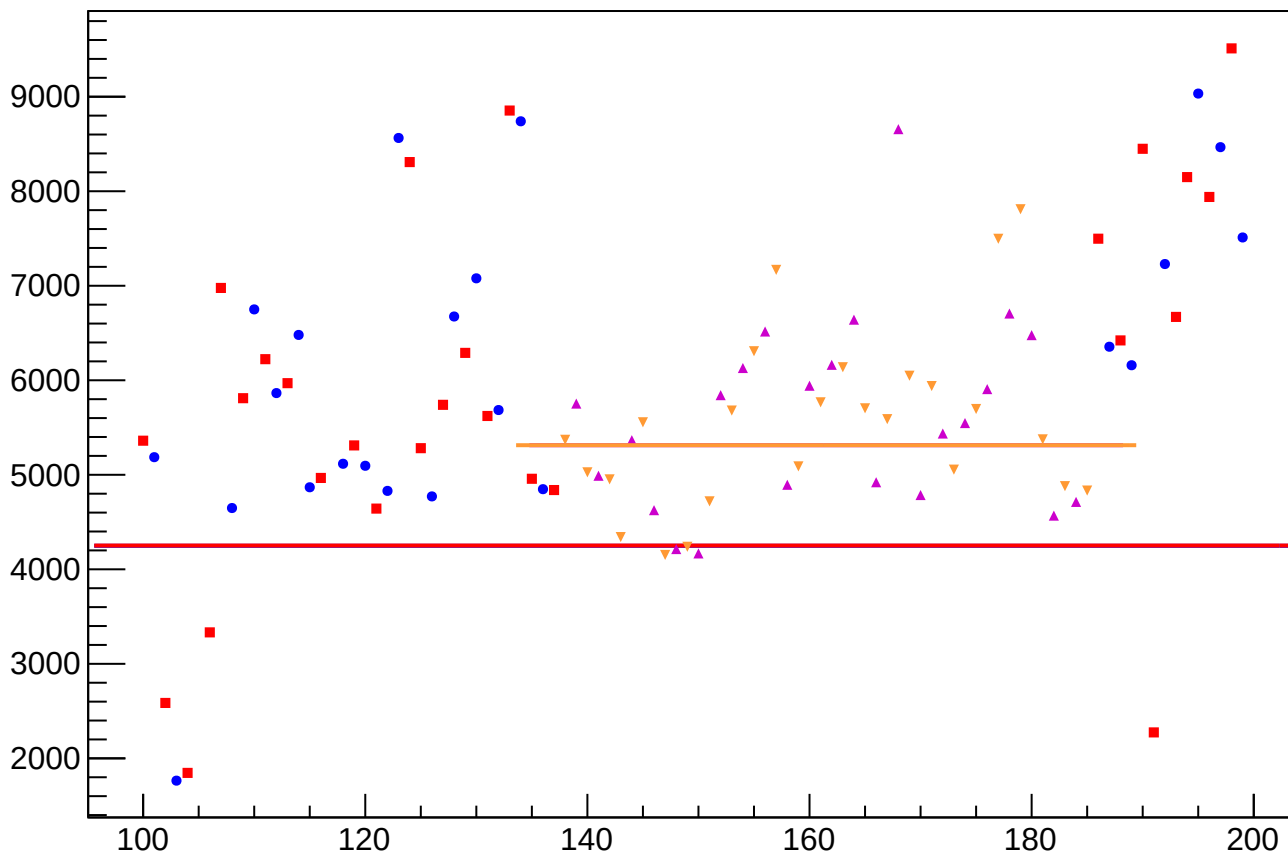
Right: 3290.512+/-1022.520 χ^2/NDF : 44.7/49

In: 2574.470+/-974.616 χ^2/NDF : 35.2/45

Out: 2135.364+/-939.043 χ^2/NDF : 52.7/51

All: 2346.757+/-676.230 χ^2/NDF : 88.0/97

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: 4251.411+/-0.992 χ^2/NDF : 5068774.9/26

Left In: 5312.861+/-0.914 χ^2/NDF : 957400.7/22

Left: 5312.937+/-0.637 χ^2/NDF : 1851770.5/47

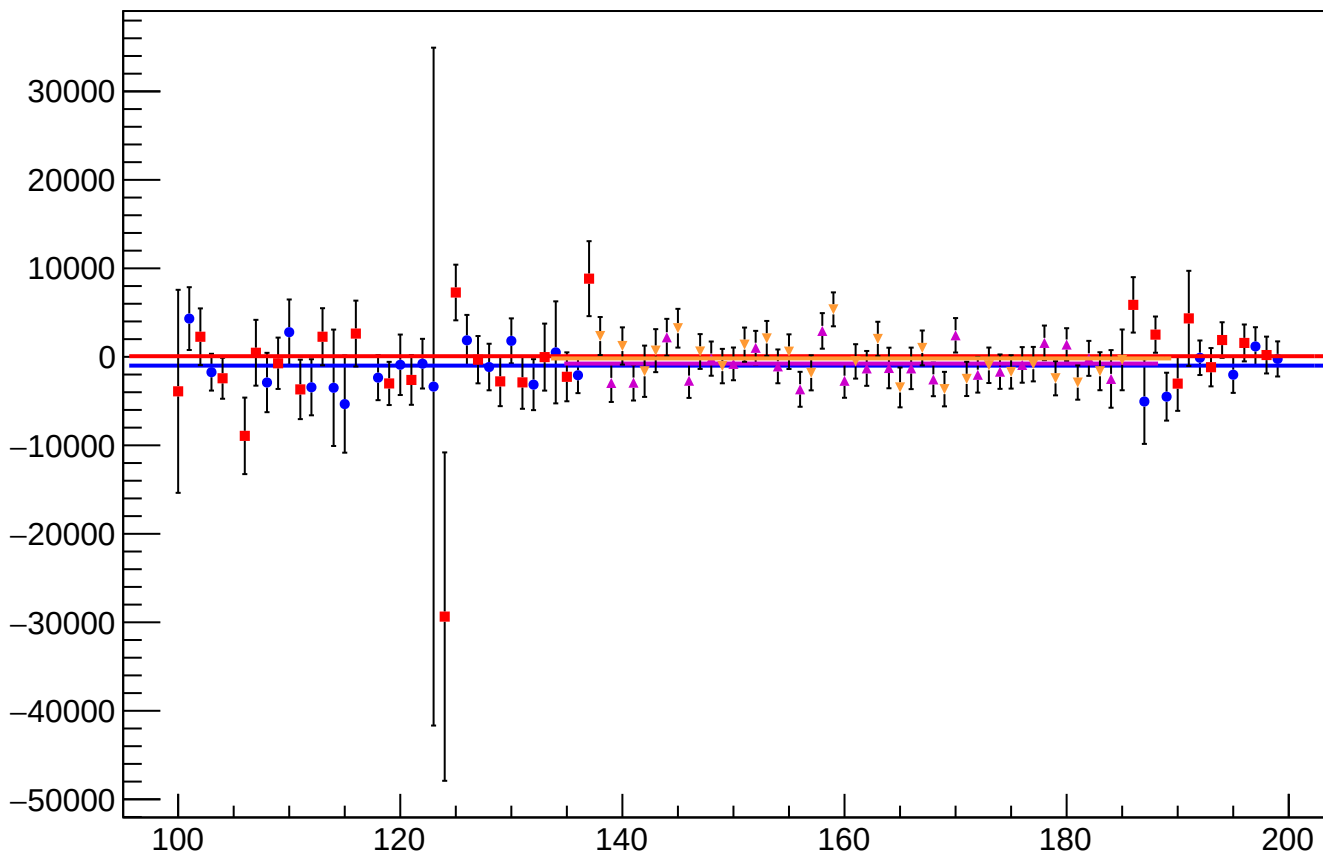
Right: 4250.166+/-0.721 χ^2/NDF : 9682252.2/49

In: 4853.973+/-0.689 χ^2/NDF : 6155621.8/45

Out: 4839.974+/-0.662 χ^2/NDF : 6597499.4/51

All: 4846.697+/-0.478 χ^2/NDF : 12753335.7/99

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -992.530 ± 581.342 $\chi^2/\text{NDF}: 12.5/22$

Left Out: -179.794 ± 410.976 $\chi^2/\text{NDF}: 29.3/24$

Right Out: 72.946 ± 556.342 $\chi^2/\text{NDF}: 33.8/26$

Left In: -759.753 ± 419.905 $\chi^2/\text{NDF}: 20.3/22$

Left: -463.542 ± 293.710 $\chi^2/\text{NDF}: 50.5/47$

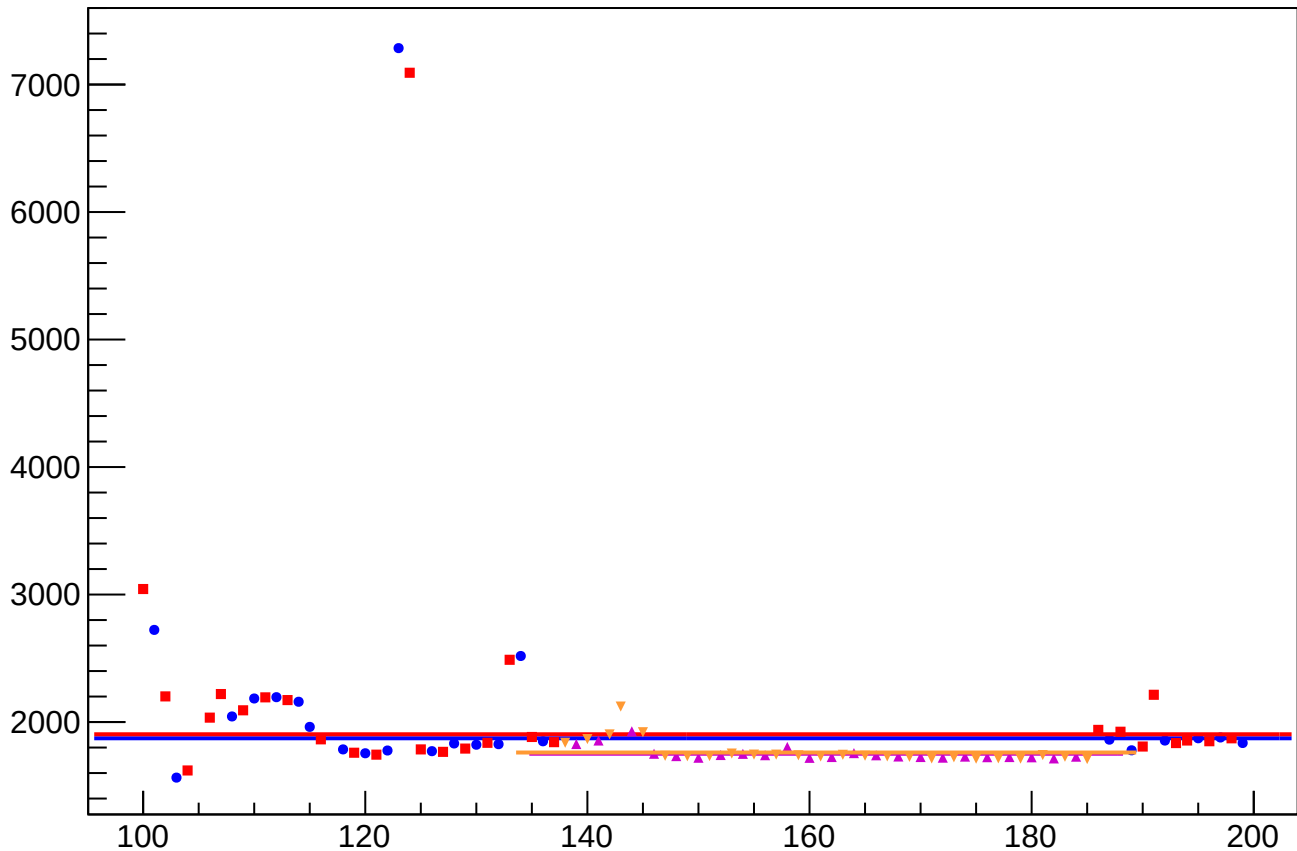
Right: -436.391 ± 401.941 $\chi^2/\text{NDF}: 48.1/49$

In: -839.561 ± 340.395 $\chi^2/\text{NDF}: 32.9/45$

Out: -90.566 ± 330.563 $\chi^2/\text{NDF}: 63.2/51$

All: -454.091 ± 237.143 $\chi^2/\text{NDF}: 98.6/97$

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: 1904.136 $\pm$ 0.393 χ^2 /NDF: 365202.7/26

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

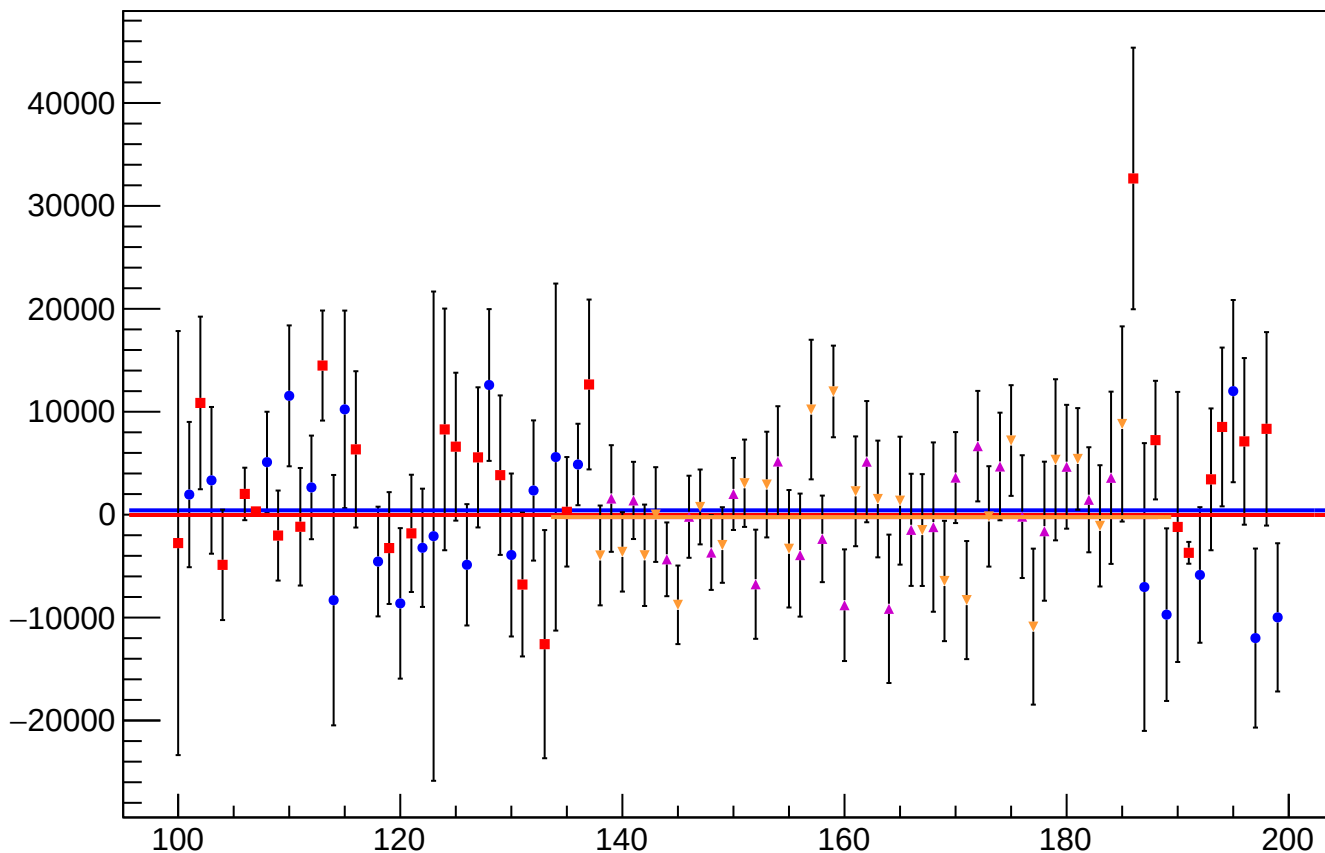
Right: 1889.106 $\pm$ 0.284 χ^2 /NDF: 651494.3/49

In: 1792.988 $\pm$ 0.241 χ^2 /NDF: 368981.0/45

Out: 1811.650 $\pm$ 0.234 χ^2 /NDF: 528309.7/51

All: 1802.595 $\pm$ 0.168 χ^2 /NDF: 900385.5/97

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 420.434+/-1435.132 χ^2/NDF : 22.1/22

Left Out: -235.806+/-1005.144 χ^2/NDF : 28.9/24

Right Out: -32.297+/-413.321 χ^2/NDF : 42.6/26

Left In: -239.224+/-1028.883 χ^2/NDF : 15.3/22

Left: -237.475+/-718.990 χ^2/NDF : 44.2/47

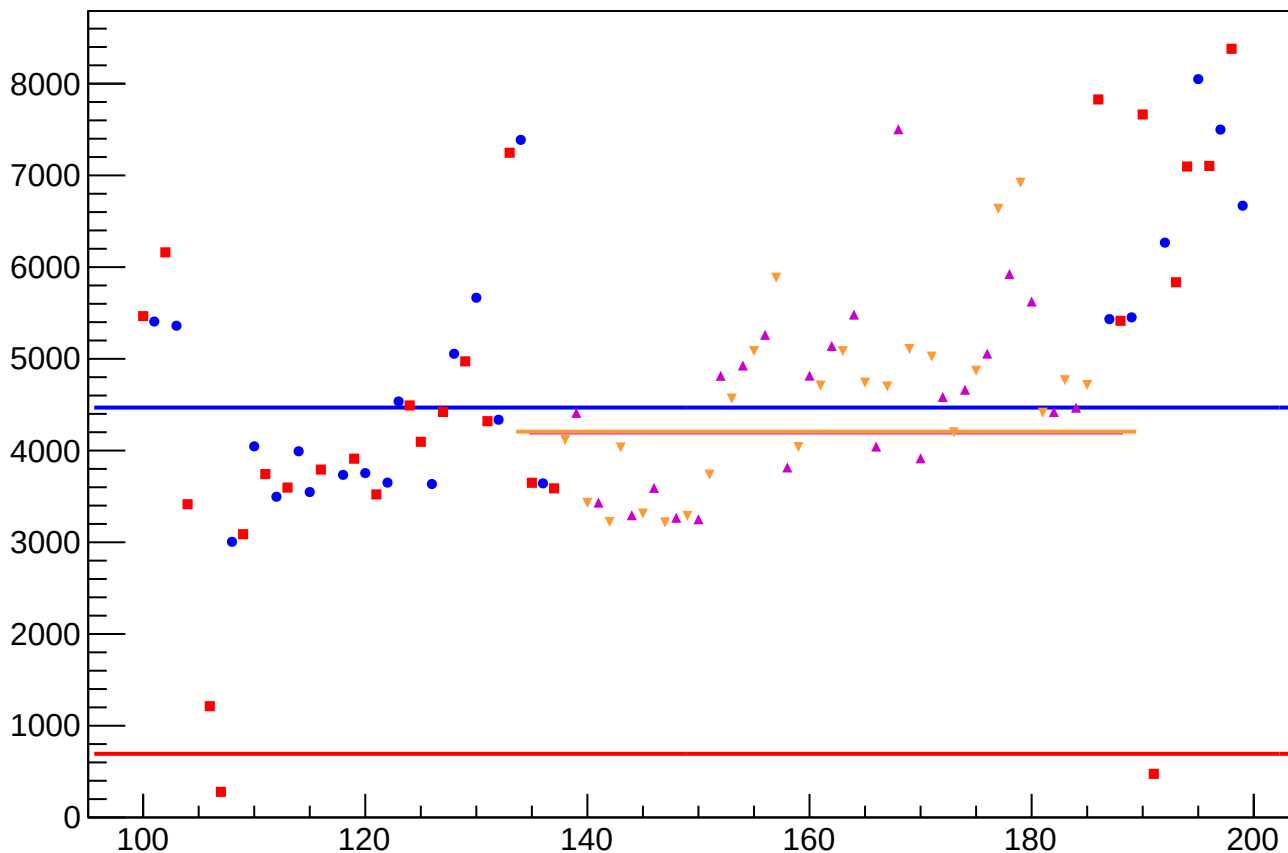
Right: 2.379+/-397.177 χ^2/NDF : 64.8/49

In: -15.276+/-836.191 χ^2/NDF : 37.6/45

Out: -61.731+/-382.264 χ^2/NDF : 71.5/51

All: -53.701+/-347.659 χ^2/NDF : 109.1/97

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: 982.871+/-0.281

χ^2/NDF : 32409467.5/49

Right Out: 693.735+/-0.292

χ^2/NDF : 17995333.5/26

In: 4289.429+/-0.591

χ^2/NDF : 3154071.6/45

Out: 1201.739+/-0.270

χ^2/NDF : 40326671.7/51

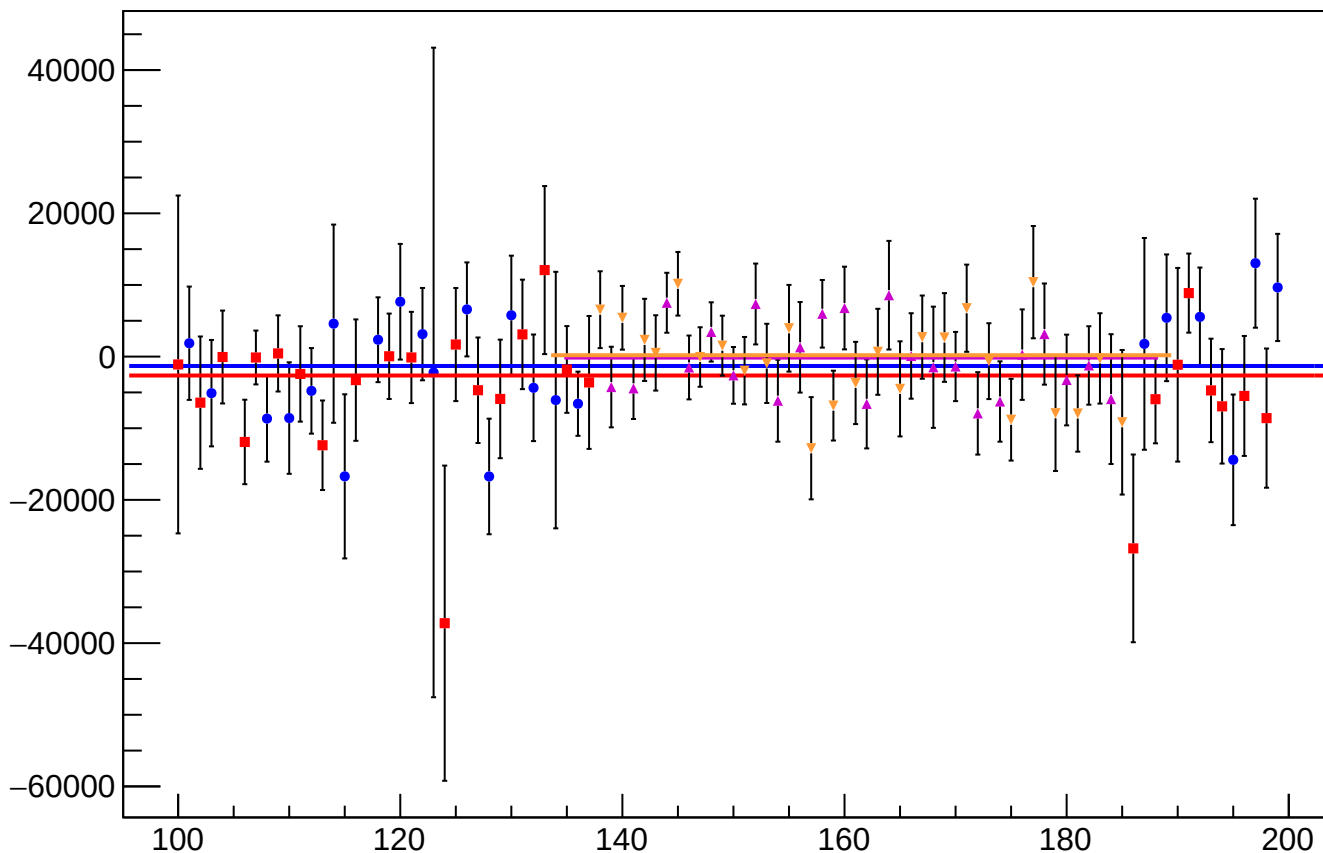
Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

All: 1735.478+/-0.246

χ^2/NDF : 66036897.2/9

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1309.969 $\pm$ 1596.546 χ^2/NDF : 23.0/22

Left Out: 189.721 $\pm$ 1106.851 χ^2/NDF : 25.0/24

Right Out: -2638.218 $\pm$ 1371.327 χ^2/NDF : 20.5/26

Left In: -137.477 $\pm$ 1129.656 χ^2/NDF : 18.6/22

Left: 29.458 $\pm$ 790.601 χ^2/NDF : 43.6/47

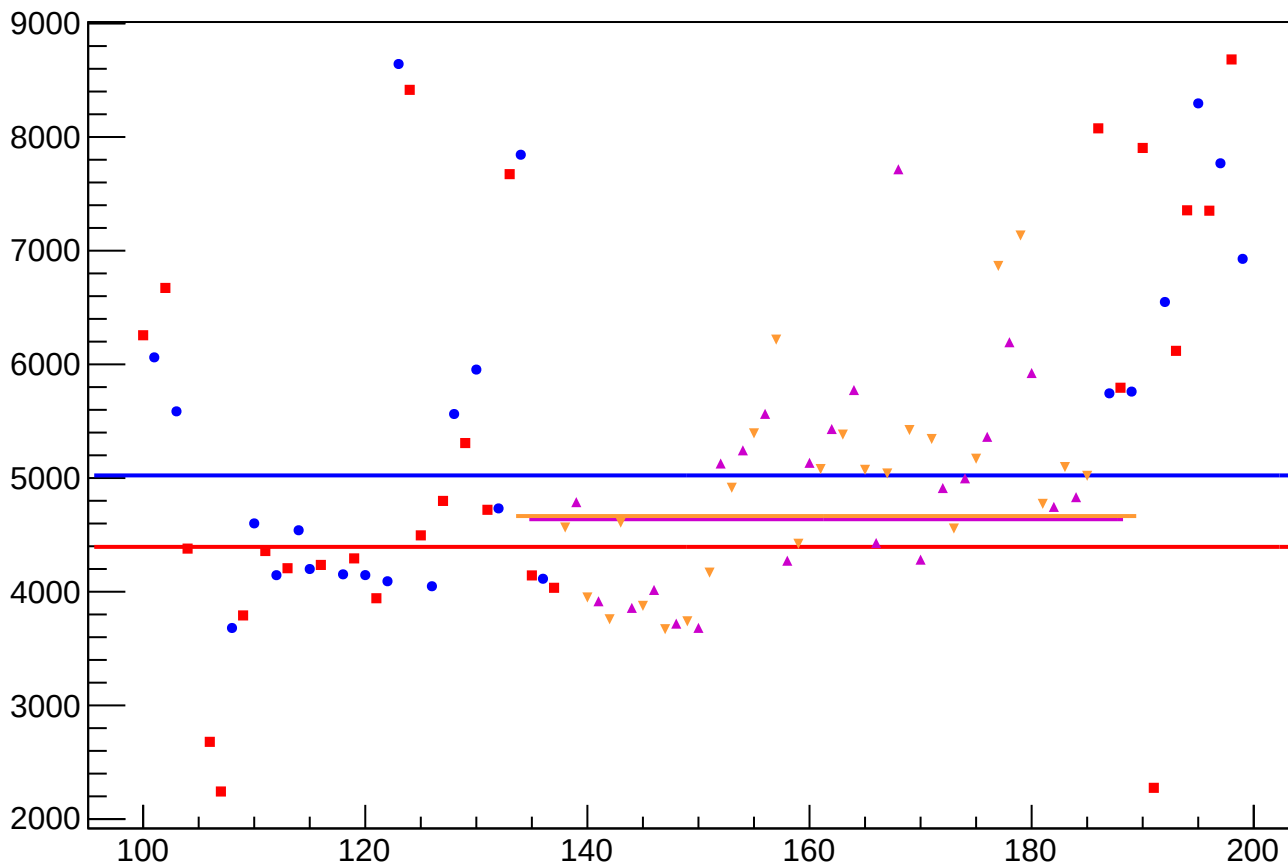
Right: -2074.311 $\pm$ 1040.268 χ^2/NDF : 43.9/49

In: -528.643 $\pm$ 922.162 χ^2/NDF : 42.0/45

Out: -925.845 $\pm$ 861.298 χ^2/NDF : 48.0/51

All: -740.784 $\pm$ 629.448 χ^2/NDF : 90.1/97

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5023.108+/-1.129

χ^2/NDF : 1232056.7/22

Left Out: 4665.620+/-0.783

χ^2/NDF : 1017235.0/24

Right Out: 4394.485+/-0.965

χ^2/NDF : 3011037.0/26

Left In: 4637.777+/-0.799

χ^2/NDF : 1065217.2/22

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

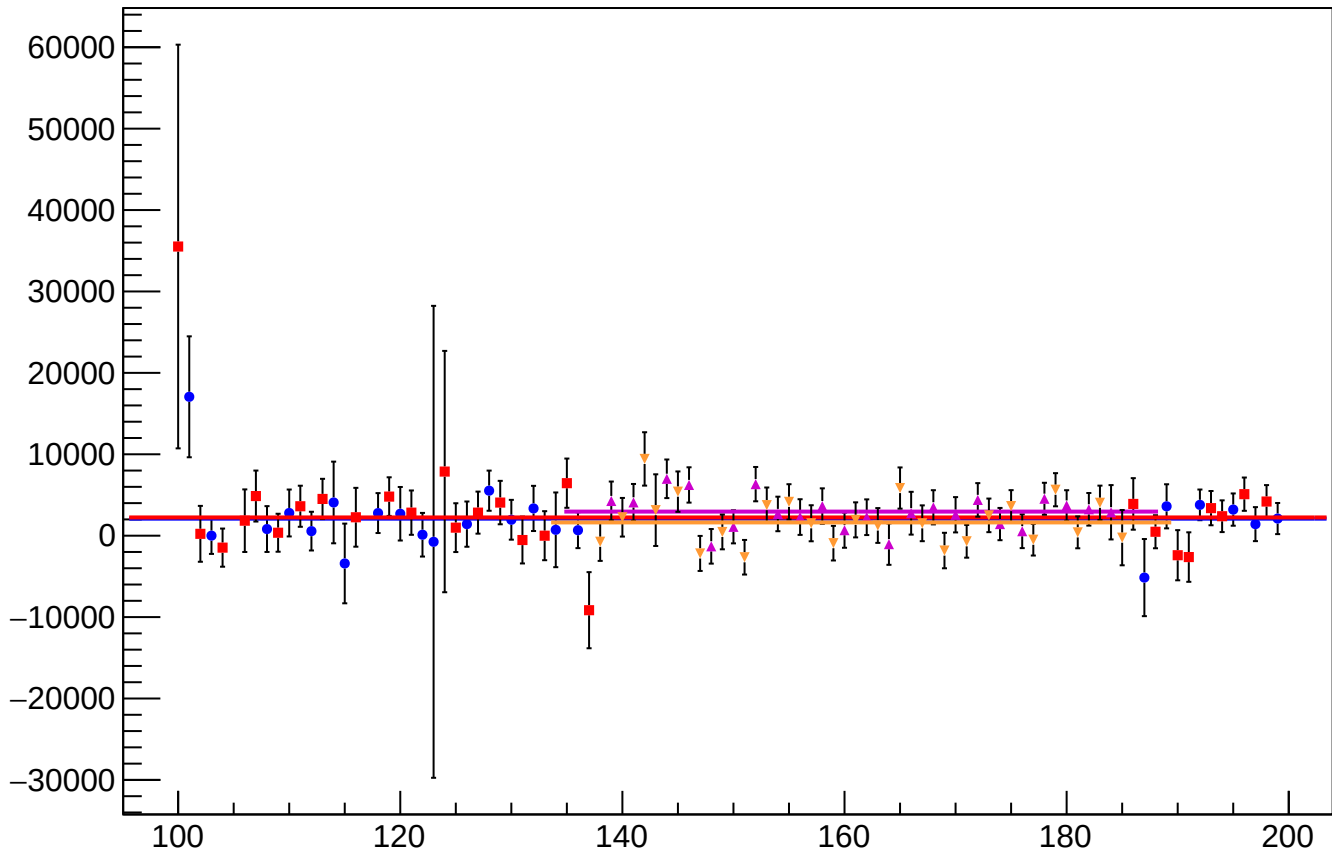
Right: 4659.872+/-0.734 χ^2/NDF : 4422255.7/49

In: 4766.331+/-0.652 χ^2/NDF : 2374908.6/45

Out: 4558.031+/-0.608 χ^2/NDF : 4075893.4/51

All: 4654.881+/-0.445 χ^2/NDF : 6505400.9/97

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: 2241.313 $\pm$ 523.065 χ^2 /NDF: 27.6/26

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

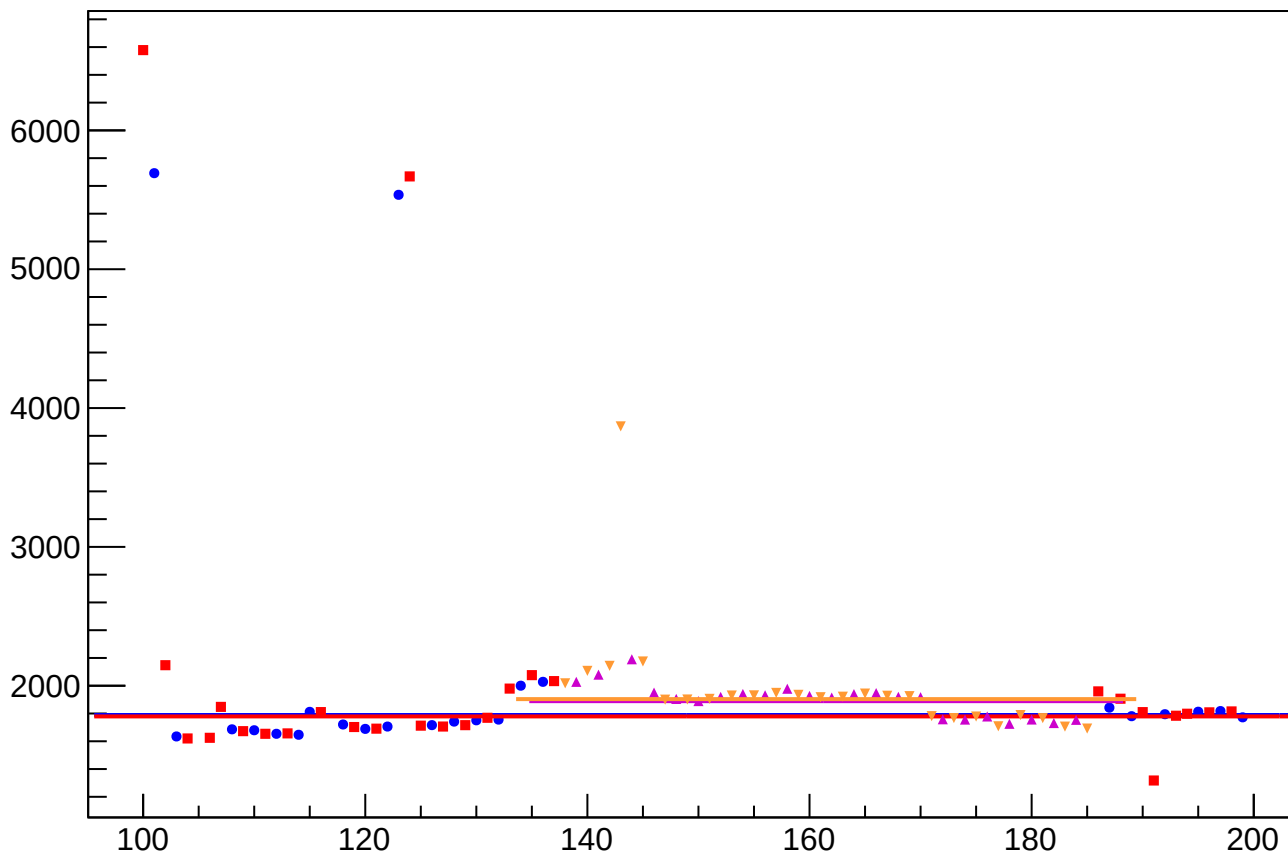
Right: 2172.425 $\pm$ 382.340 χ^2 /NDF: 41.9/49

In: 2615.960 $\pm$ 352.585 χ^2 /NDF: 36.1/45

Out: 1888.077 $\pm$ 339.846 χ^2 /NDF: 63.8/51

All: 2238.631 $\pm$ 244.687 χ^2 /NDF: 102.2/97

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1789.041+/-0.396 χ^2/NDF : 645851.5/22

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1778.991+/-0.368 χ^2/NDF : 368552.2/26

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

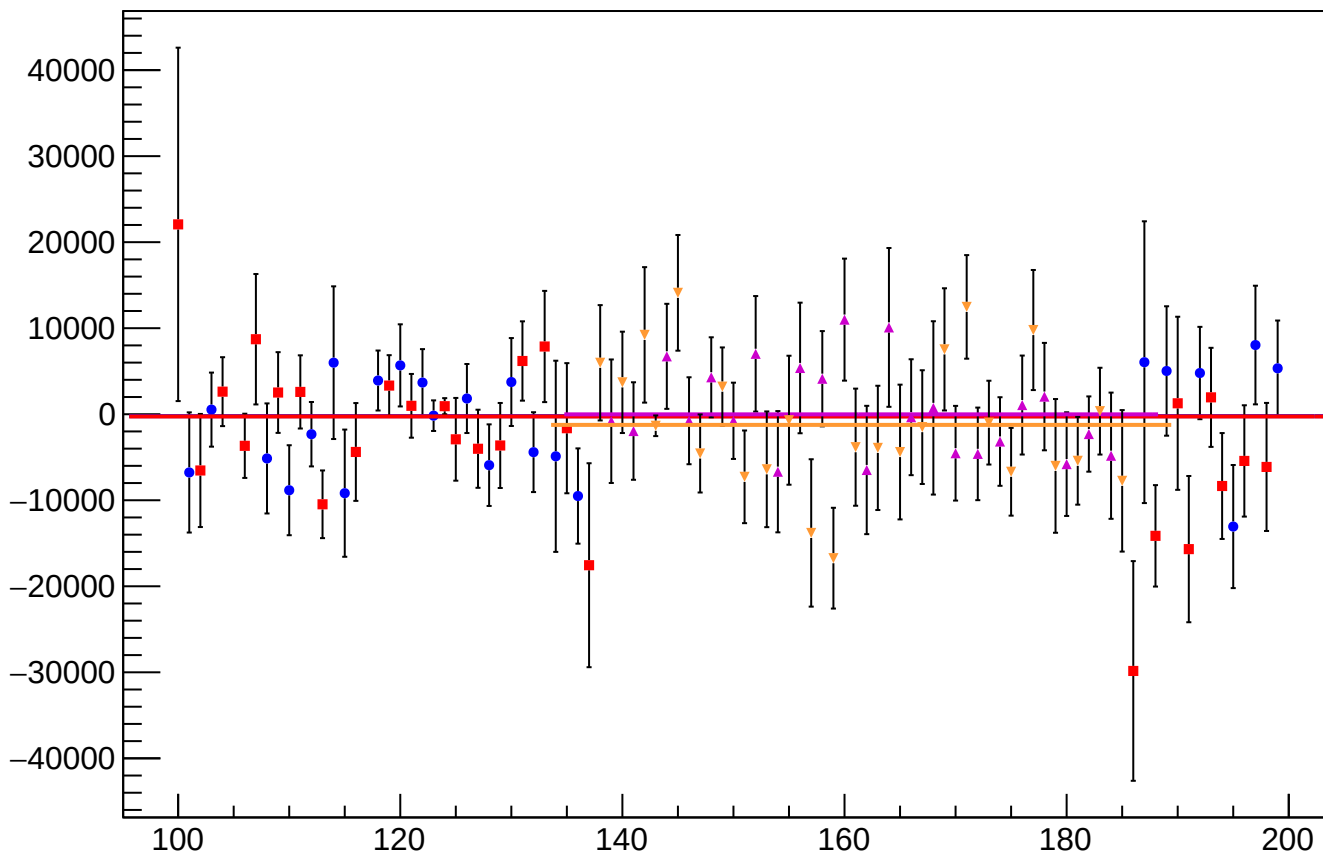
Right: 1783.651+/-0.270 χ^2/NDF : 1014748.8/49

In: 1849.369+/-0.249 χ^2/NDF : 810661.6/45

Out: 1850.764+/-0.240 χ^2/NDF : 976043.4/51

All: 1850.093+/-0.173 χ^2/NDF : 1786721.3/97

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -225.439 $\pm$ 950.219 χ^2 /NDF: 23.7/22

Left Out: -1239.833 $\pm$ 865.201 χ^2 /NDF:33.9/24

Right Out: -260.564 $\pm$ 697.576 χ^2 /NDF: 40.2/26

Left In: -15.863 $\pm$ 1243.317 χ^2 /NDF:13.2/22

Left: -840.501 $\pm$ 710.172 χ^2 /NDF: 47.8/47

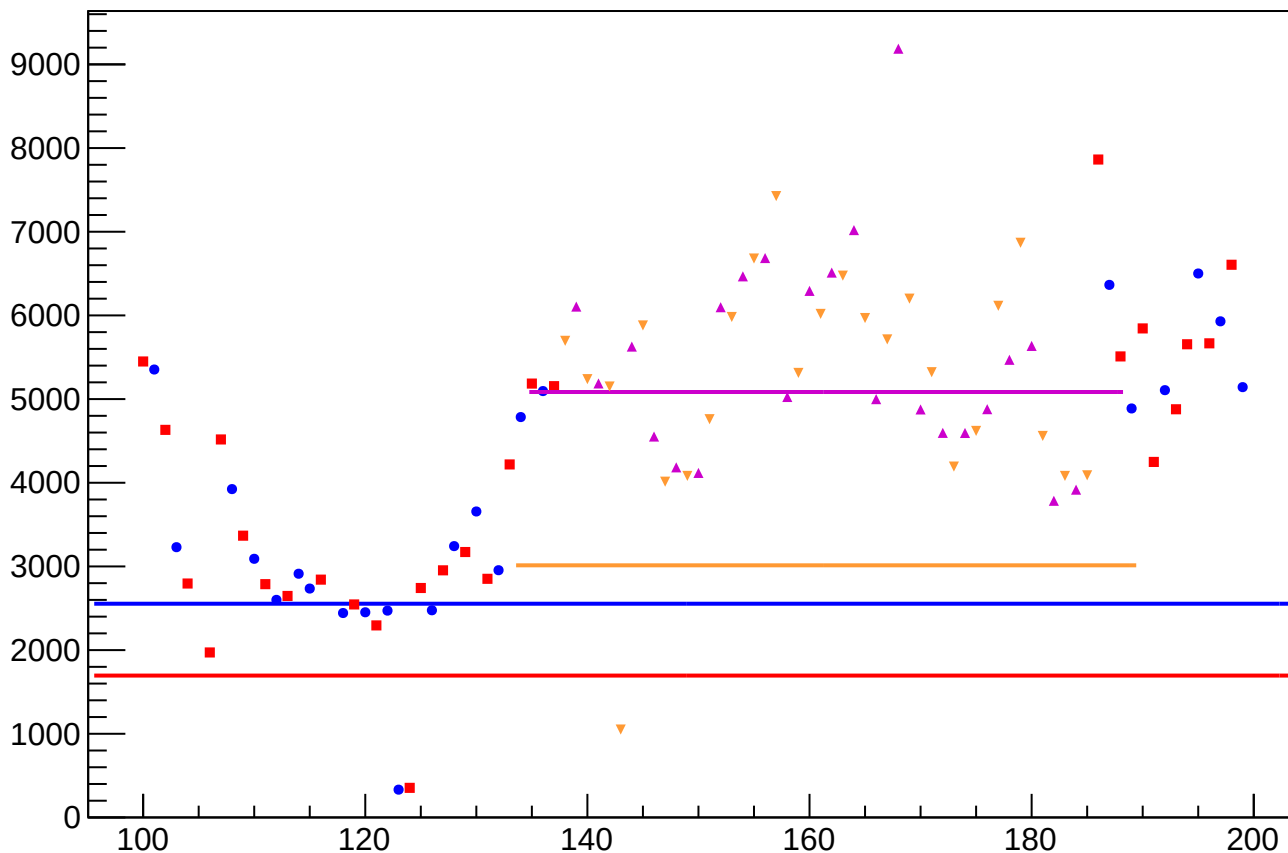
Right: -248.263 $\pm$ 562.318 χ^2 /NDF: 63.9/49

In: -148.163 $\pm$ 754.976 χ^2 /NDF:37.0/45

Out: -646.355 $\pm$ 543.054 χ^2 /NDF:74.9/51

All: -476.485 $\pm$ 440.853 χ^2 /NDF: 112.1/97

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2554.361+/-0.672 χ^2/NDF : 6542916.7/22

Left Out: 3013.268+/-0.612 χ^2/NDF : 12270753.9/24

Right Out: 1695.649+/-0.493 χ^2/NDF : 12114468.2/26

Left In: 5084.645+/-0.879 χ^2/NDF : 1303587.7/22

Left: 3689.075+/-0.502 χ^2/NDF : 17314385.8/47

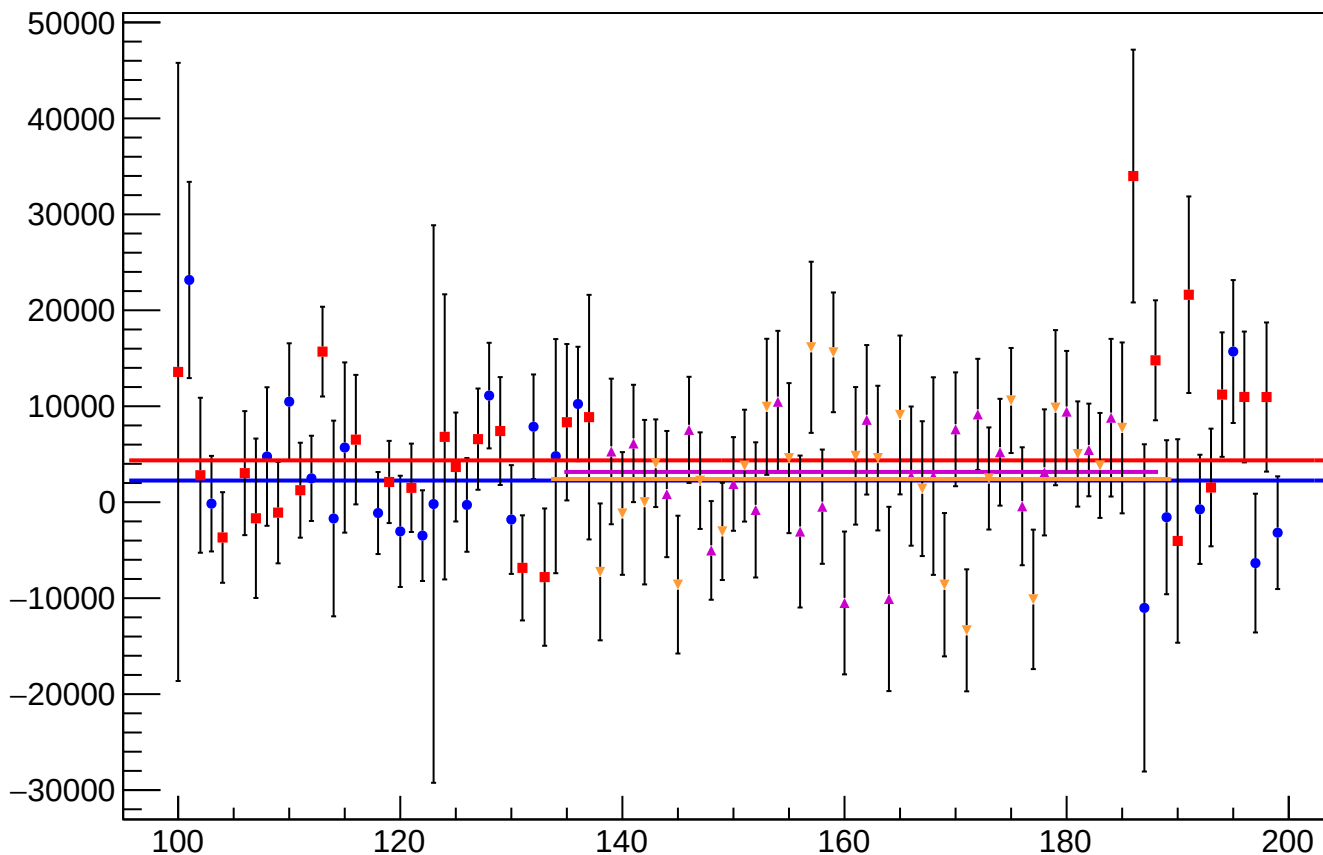
Right: 1996.370+/-0.398 χ^2/NDF : 19718731.7/49

In: 3487.339+/-0.534 χ^2/NDF : 13075560.2/45

Out: 2214.737+/-0.384 χ^2/NDF : 27196330.5/51

All: 2648.662+/-0.312 χ^2/NDF : 44016888.7/95

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2257.604+/-1301.671 χ^2/NDF : 22.5/22

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 4359.770+/-1229.904 χ^2/NDF : 33.9/26

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

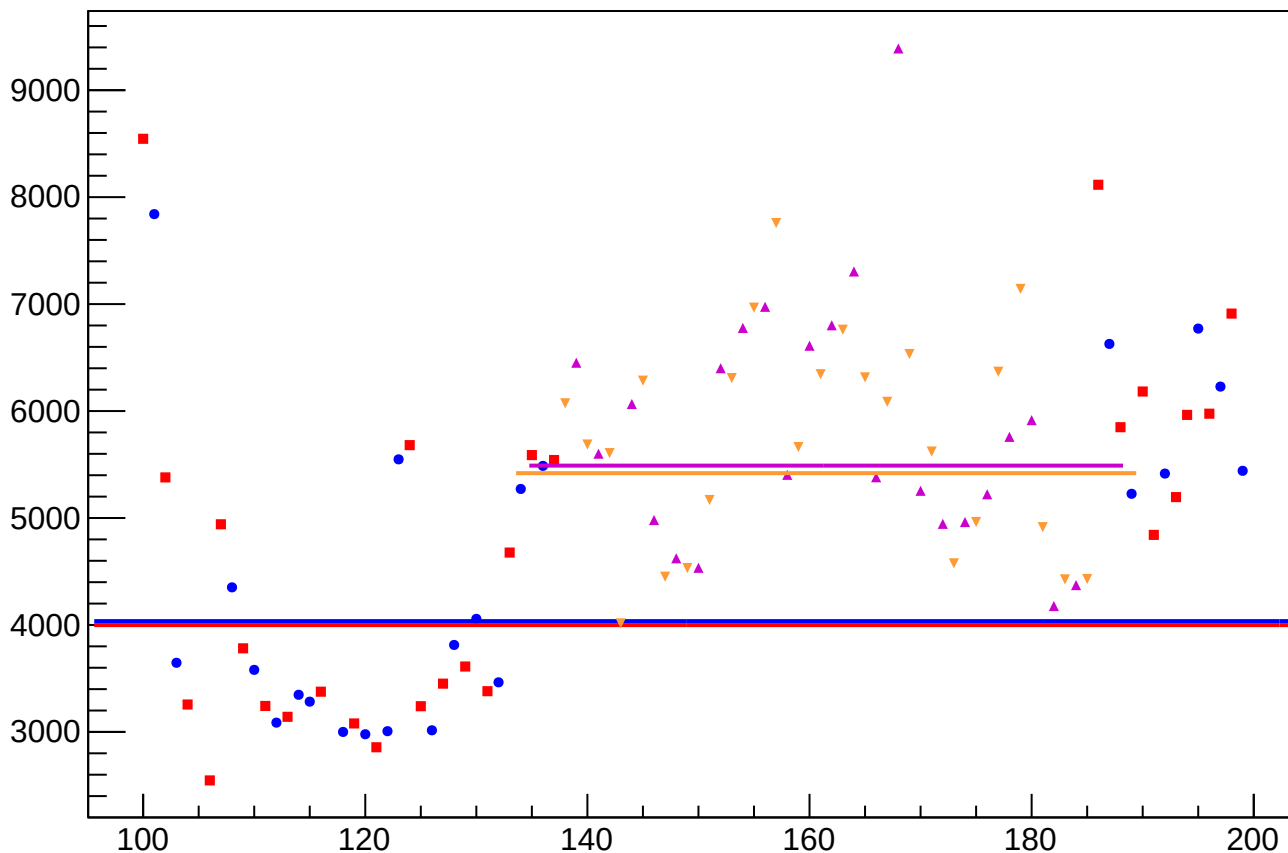
Right: 3368.233+/-893.968 χ^2/NDF : 57.8/49

In: 2693.407+/-932.788 χ^2/NDF : 38.2/45

Out: 3432.145+/-889.002 χ^2/NDF : 65.0/51

All: 3080.521+/-643.542 χ^2/NDF : 103.6/97

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: 3998.738+/-0.860 χ^2/NDF : 2106191.3/26

Left In: 5489.885+/-0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

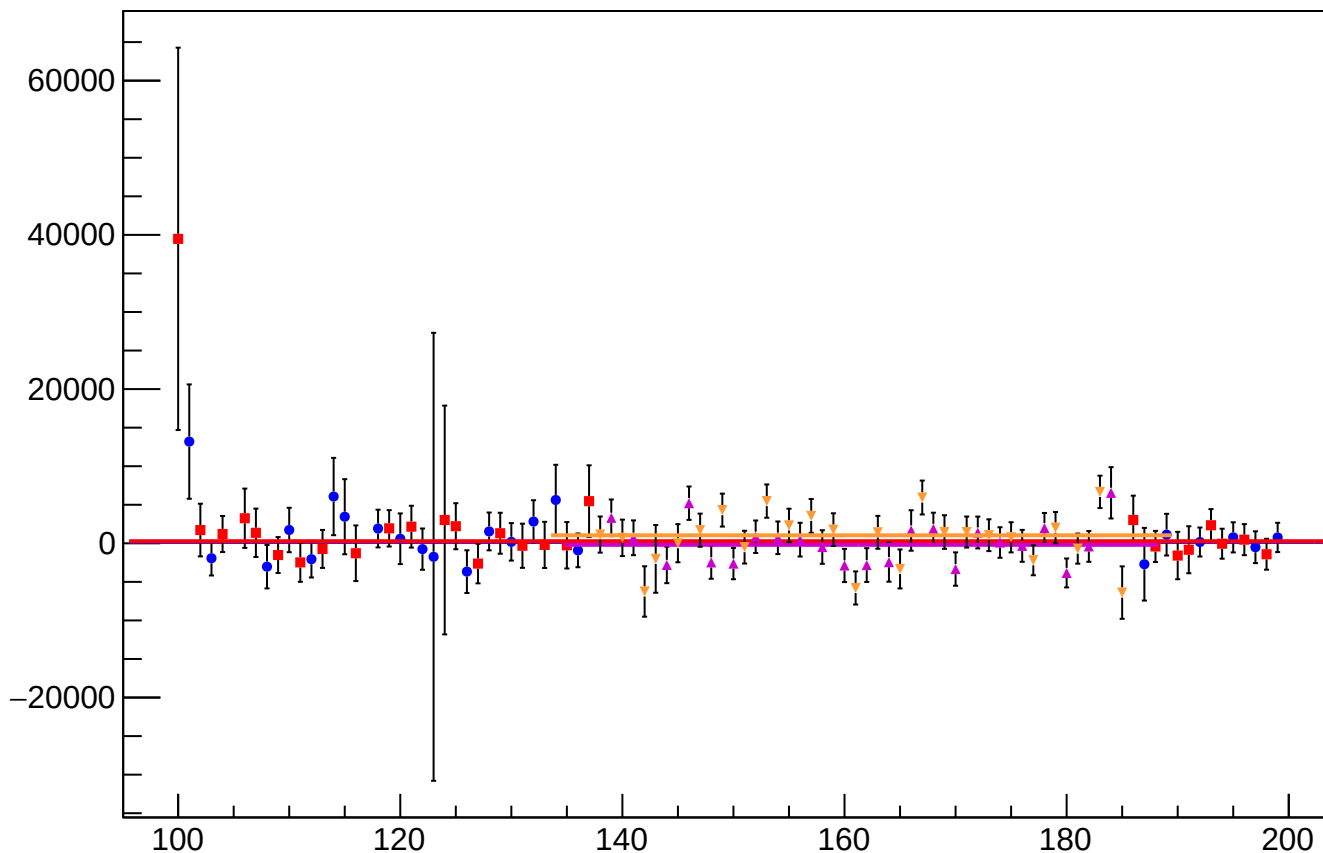
Right: 4016.099+/-0.628 χ^2/NDF : 3838312.5/49

In: 4743.263+/-0.660 χ^2/NDF : 4009429.8/45

Out: 4669.189+/-0.625 χ^2/NDF : 4503856.8/51

All: 4704.230+/-0.454 χ^2/NDF : 8519932.4/97

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: 268.037 $\pm$ 520.816 χ^2 /NDF: 13.0/26

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

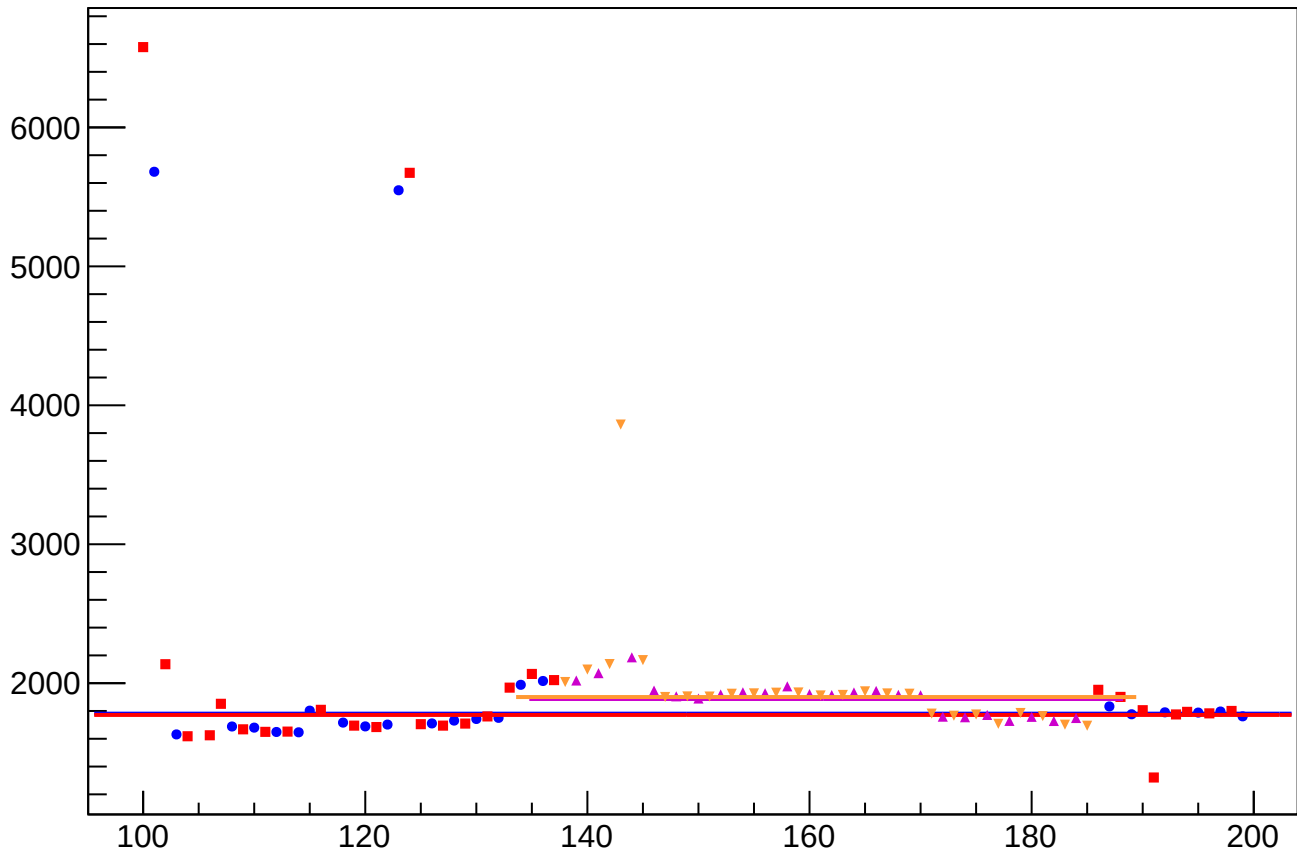
Right: 230.554 $\pm$ 380.616 χ^2 /NDF: 27.6/49

In: -41.039 $\pm$ 351.623 χ^2 /NDF:44.8/45

Out: 713.918 $\pm$ 338.871 χ^2 /NDF:62.8/51

All: 350.378 $\pm$ 244.001 χ^2 /NDF: 110.0/97

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: 1771.597+/-0.367 χ^2/NDF : 365229.0/26

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

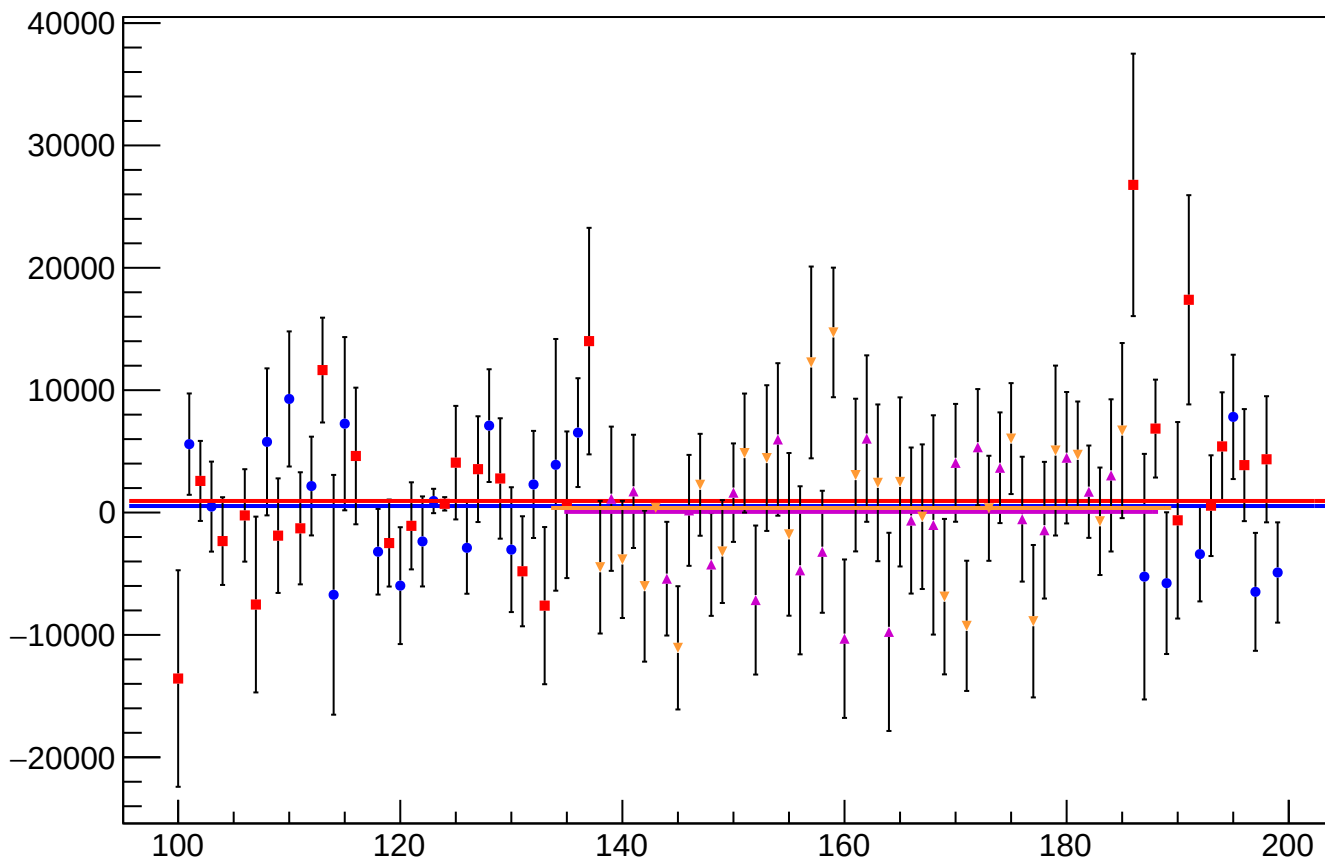
Right: 1775.800+/-0.269 χ^2/NDF : 1009168.3/49

In: 1844.338+/-0.249 χ^2/NDF : 810483.7/45

Out: 1845.560+/-0.239 χ^2/NDF : 973869.0/51

All: 1844.972+/-0.172 χ^2/NDF : 1784365.2/97

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 532.527+/-705.312 χ^2/NDF : 24.1/22

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 946.023+/-471.911 χ^2/NDF : 33.9/26

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

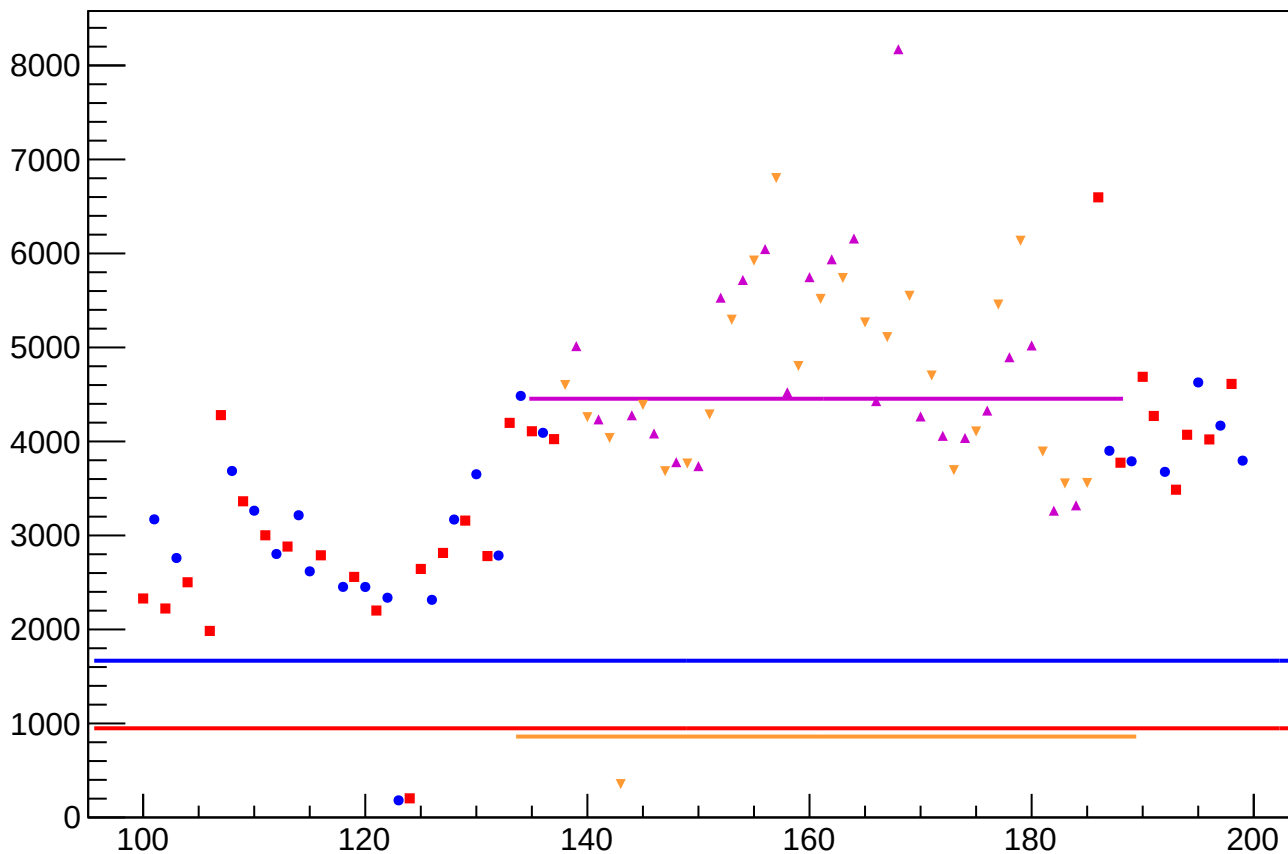
Right: 818.156+/-392.216 χ^2/NDF : 58.3/49

In: 391.011+/-592.137 χ^2/NDF :38.8/45

Out: 600.056+/-296.948 χ^2/NDF :65.6/51

All: 558.048+/-265.441 χ^2/NDF : 104.5/97

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1667.436 $\pm$ 0.499 χ^2 /NDF: 9868391.2/22

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 948.536 $\pm$ 0.334 χ^2 /NDF: 15845152.4/26

Left In: 4454.402 $\pm$ 0.771 χ^2 /NDF: 1349758.1/22

Left: 1253.867 $\pm$ 0.255 χ^2 /NDF: 47056303.3/47

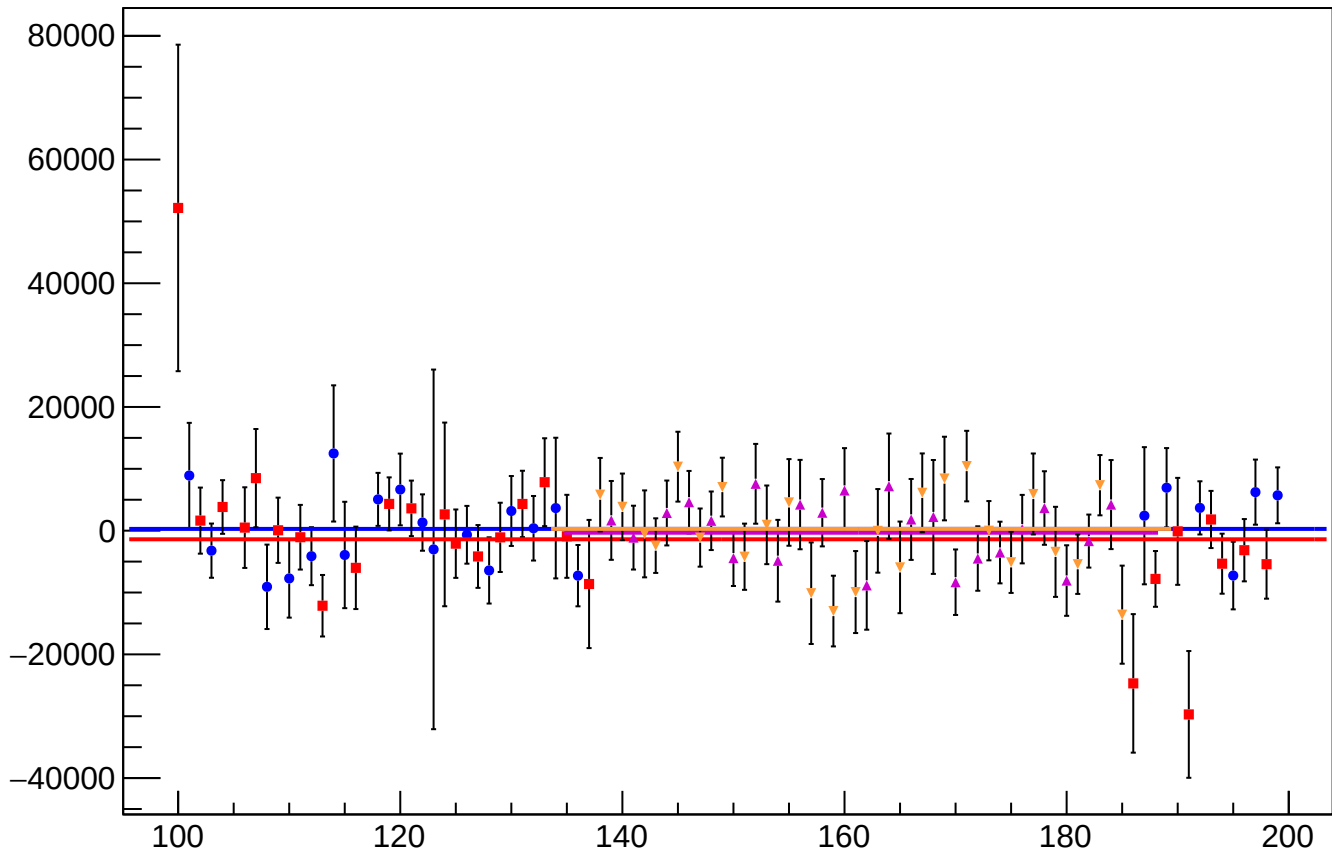
Right: 1170.845 $\pm$ 0.277 χ^2 /NDF: 27148818.7/49

In: 2490.081 $\pm$ 0.419 χ^2 /NDF: 20435594.2/45

Out: 895.385 $\pm$ 0.210 χ^2 /NDF: 42227259.4/51

All: 1215.841 $\pm$ 0.188 χ^2 /NDF: 74253690.3/99

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: -1395.097 ± 1115.653 χ^2/NDF : 35.3/26

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

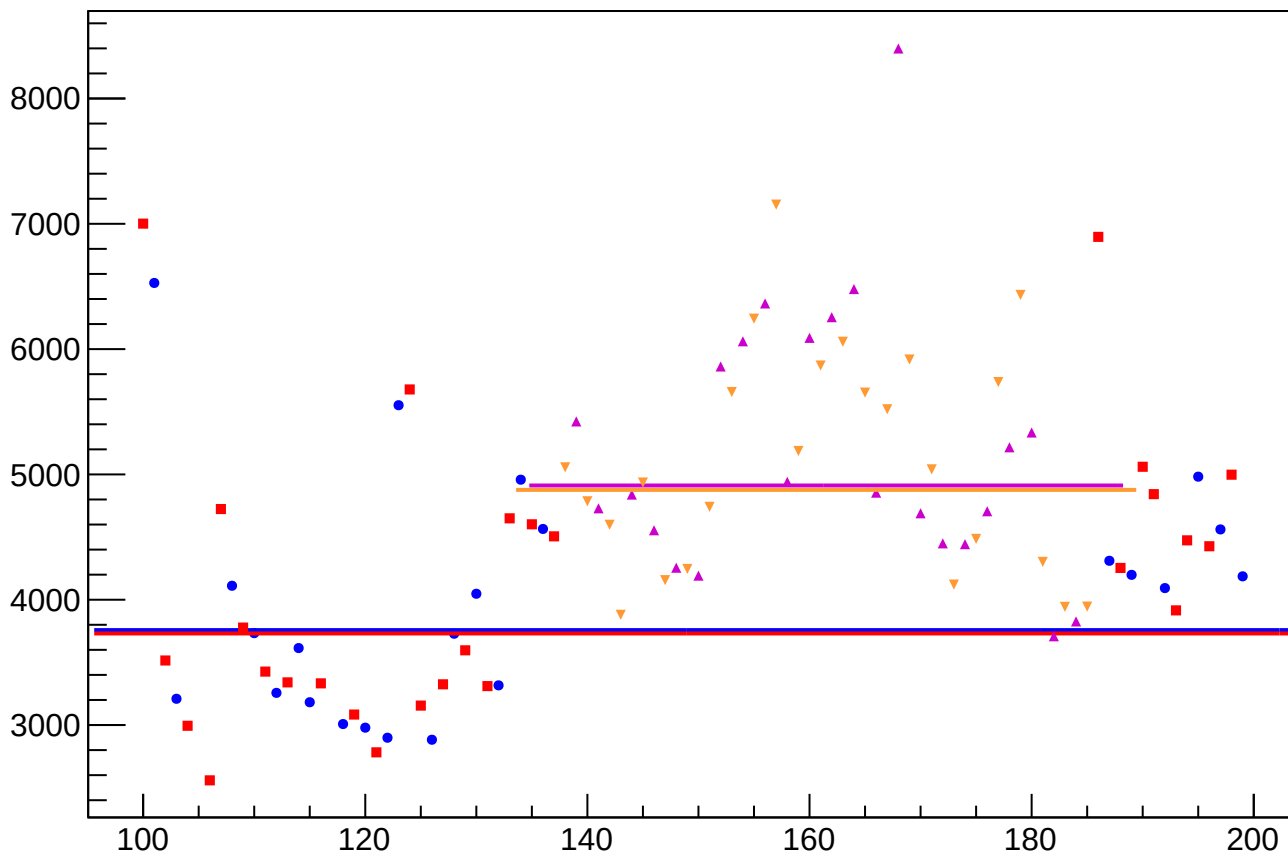
Right: -603.882 ± 811.469 χ^2/NDF : 57.0/49

In: -20.273 ± 840.868 χ^2/NDF : 35.5/45

Out: -582.765 ± 802.576 χ^2/NDF : 68.8/51

All: -314.618 ± 580.572 χ^2/NDF : 104.5/97

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: 3730.818 $\pm$ 0.782 χ^2 /NDF: 999522.1/26

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

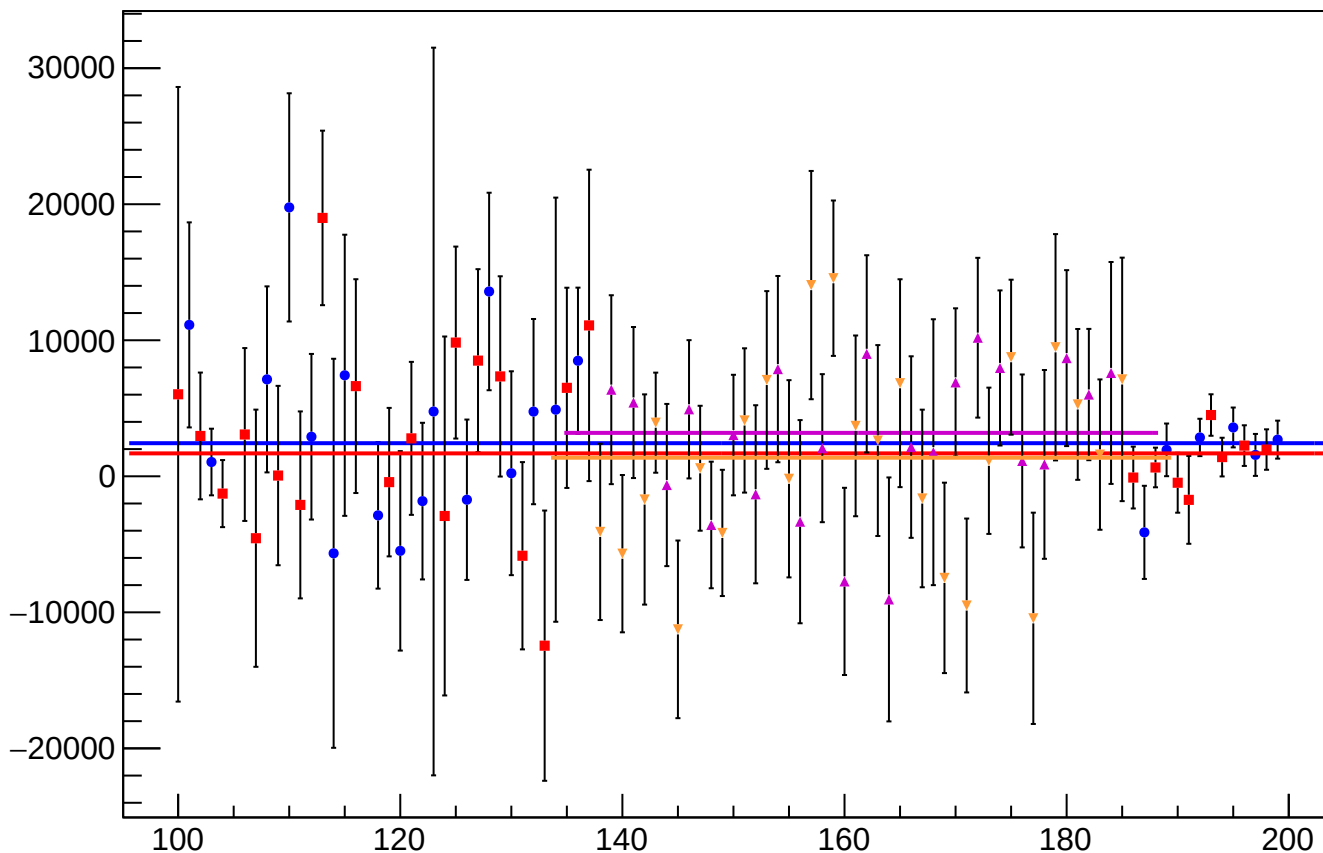
Right: 3743.270 $\pm$ 0.571 χ^2 /NDF: 1813161.3/49

In: 4327.945 $\pm$ 0.595 χ^2 /NDF: 2797916.6/45

Out: 4278.370 $\pm$ 0.565 χ^2 /NDF: 2998839.2/51

All: 4301.884 $\pm$ 0.409 χ^2 /NDF: 5800410.1/97

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: 1684.262+/-549.350 χ^2/NDF : 24.5/26

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

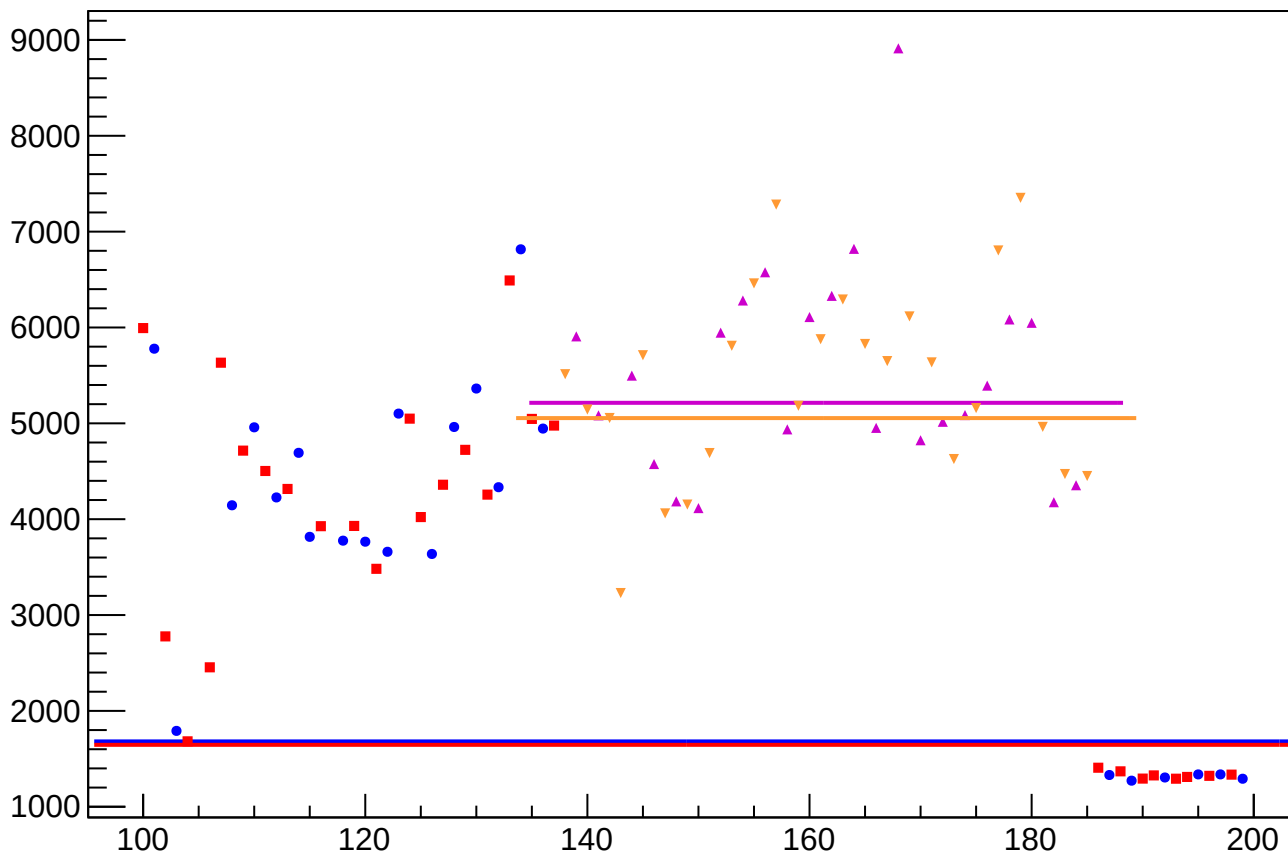
Right: 2024.405+/-405.962 χ^2/NDF : 44.1/49

In: 2572.831+/-544.400 χ^2/NDF : 33.1/45

Out: 1629.435+/-499.946 χ^2/NDF : 52.5/51

All: 2061.049+/-368.230 χ^2/NDF : 87.2/97

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1681.637 $\pm$ 0.426 χ^2 /NDF: 5412445.0/22

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF:1437224.7/24

Right Out: 1646.062 $\pm$ 0.388 χ^2 /NDF: 5410238.9/26

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF:1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

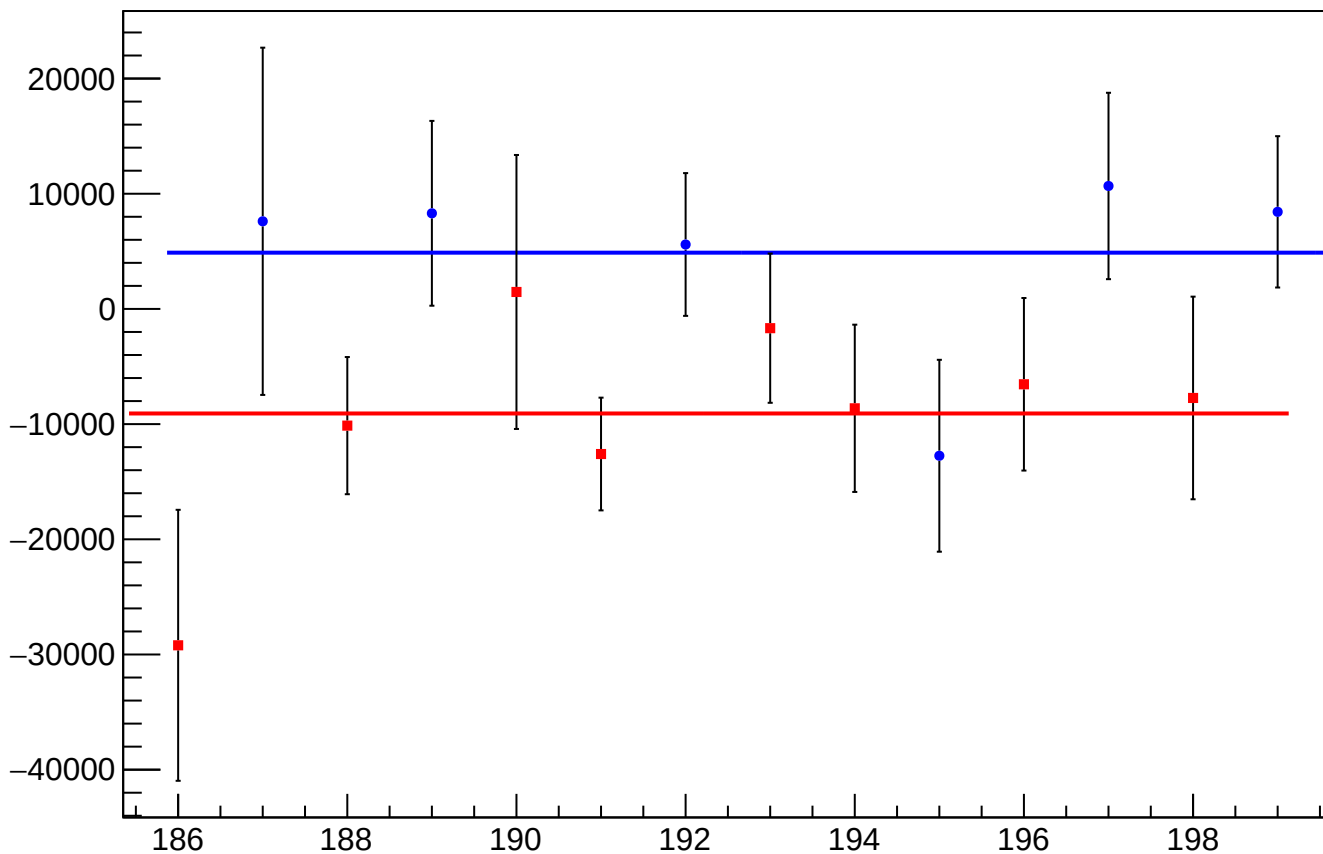
Right: 1662.184 $\pm$ 0.287 χ^2 /NDF: 10826495.8/49

In: 2330.707 $\pm$ 0.385 χ^2 /NDF:19094705.0/45

Out: 2230.165 $\pm$ 0.353 χ^2 /NDF:20080928.4/51

All: 2276.104 $\pm$ 0.260 χ^2 /NDF: 39212680.9/95

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: -9076.474+/-2517.359 χ^2/NDF : 5.7/7

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

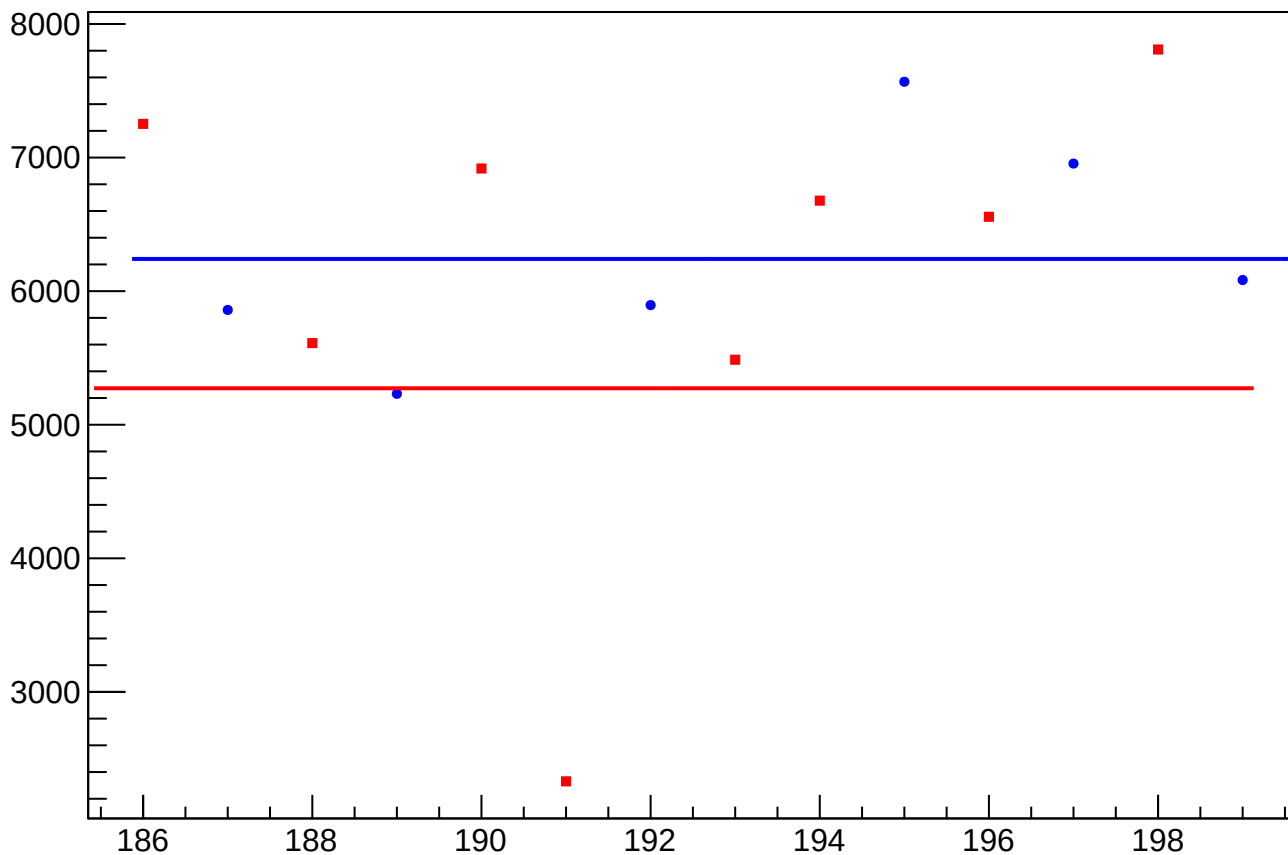
Right: -3699.613+/-1973.942 χ^2/NDF : 23.1/13

In: 4884.437+/-3180.730 χ^2/NDF : 5.5/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -3699.613+/-1973.942 χ^2/NDF : 23.1/13

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: 5273.030+/-1.780 χ^2/NDF : 1126412.7/7

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

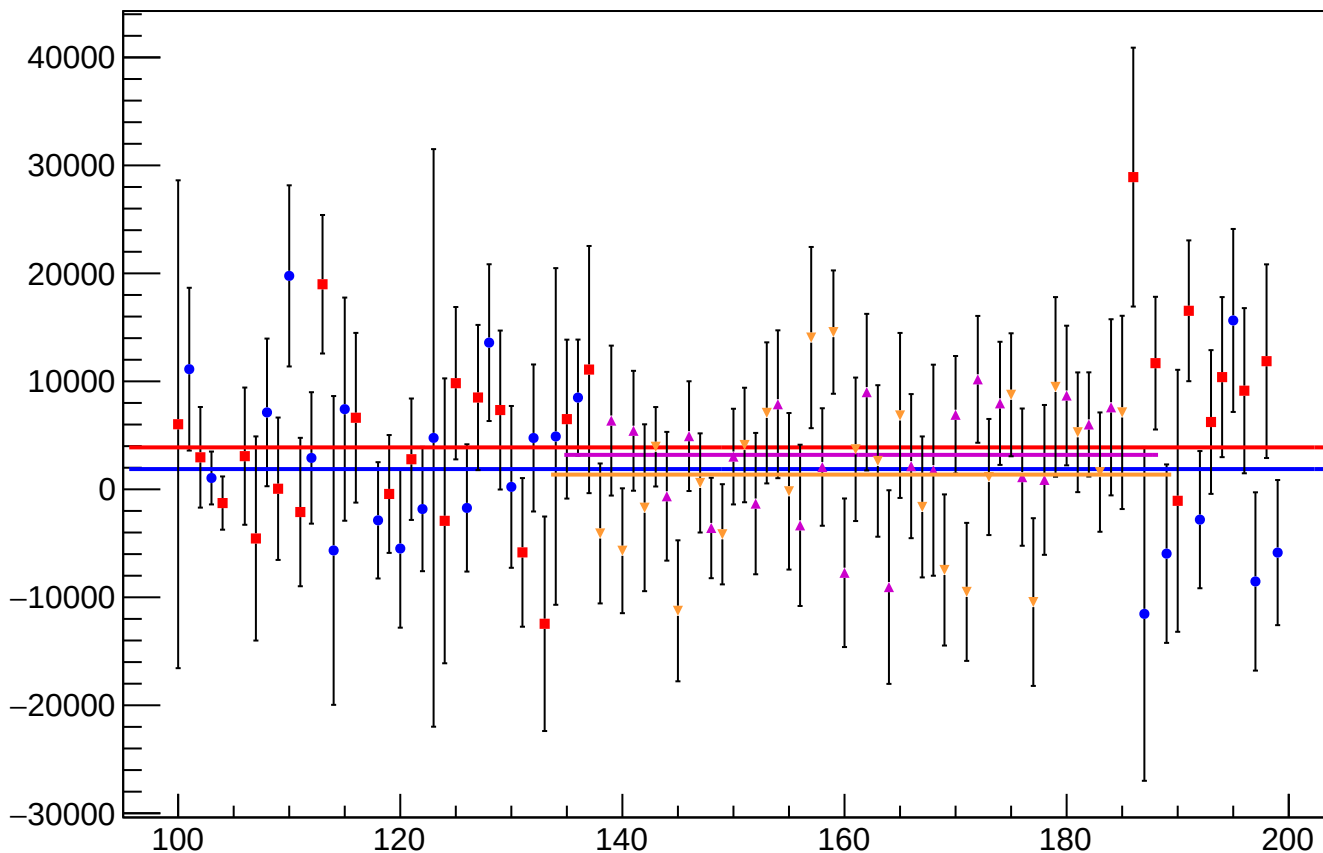
Right: 5645.922+/-1.396 χ^2/NDF : 1346987.2/13

In: 6241.237+/-2.249 χ^2/NDF : 106630.4/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5645.922+/-1.396 χ^2/NDF : 1346987.2/13

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: 3884.857+/-1234.493 χ^2/NDF : 31.6/26

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

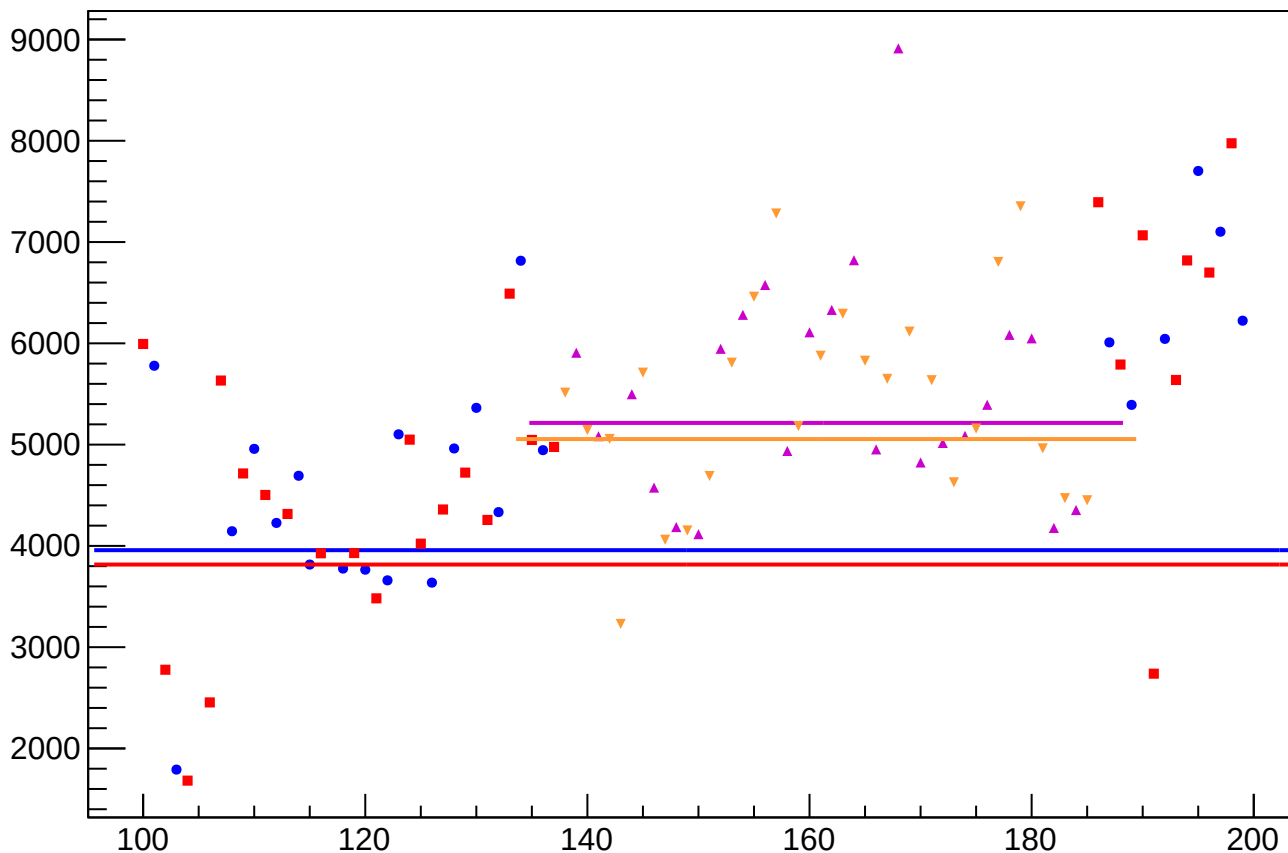
Right: 2954.584+/-904.514 χ^2/NDF : 54.9/49

In: 2563.585+/-918.214 χ^2/NDF : 36.6/45

Out: 2595.834+/-862.766 χ^2/NDF : 61.7/51

All: 2580.713+/-628.756 χ^2/NDF : 98.3/97

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 Out: 5054.711 $\pm$ 0.853 χ^2/NDF : 1437224.7/24

Right Out: 3815.864 $\pm$ 0.867 χ^2/NDF : 3962648.3/26

Left In: 5214.120 $\pm$ 0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2/NDF : 2506291.2/47

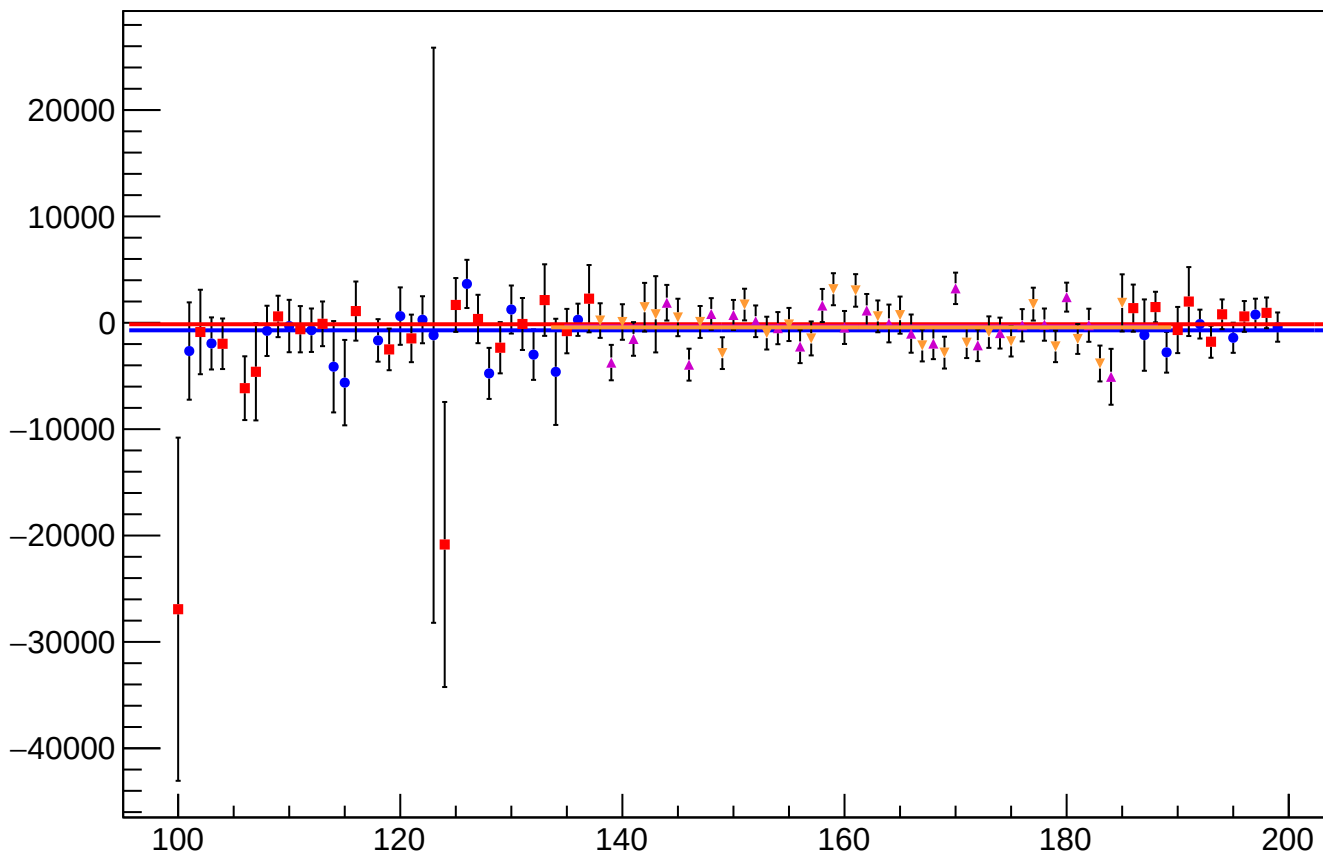
Right: 3881.015 $\pm$ 0.637 χ^2/NDF : 7183887.9/49

In: 4614.412 $\pm$ 0.649 χ^2/NDF : 5195769.9/45

Out: 4445.066 $\pm$ 0.608 χ^2/NDF : 6437969.5/51

All: 4524.169 $\pm$ 0.444 χ^2/NDF : 11669992.2/51

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: -137.257 $\pm$ 418.464 χ^2 /NDF: 20.2/26

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

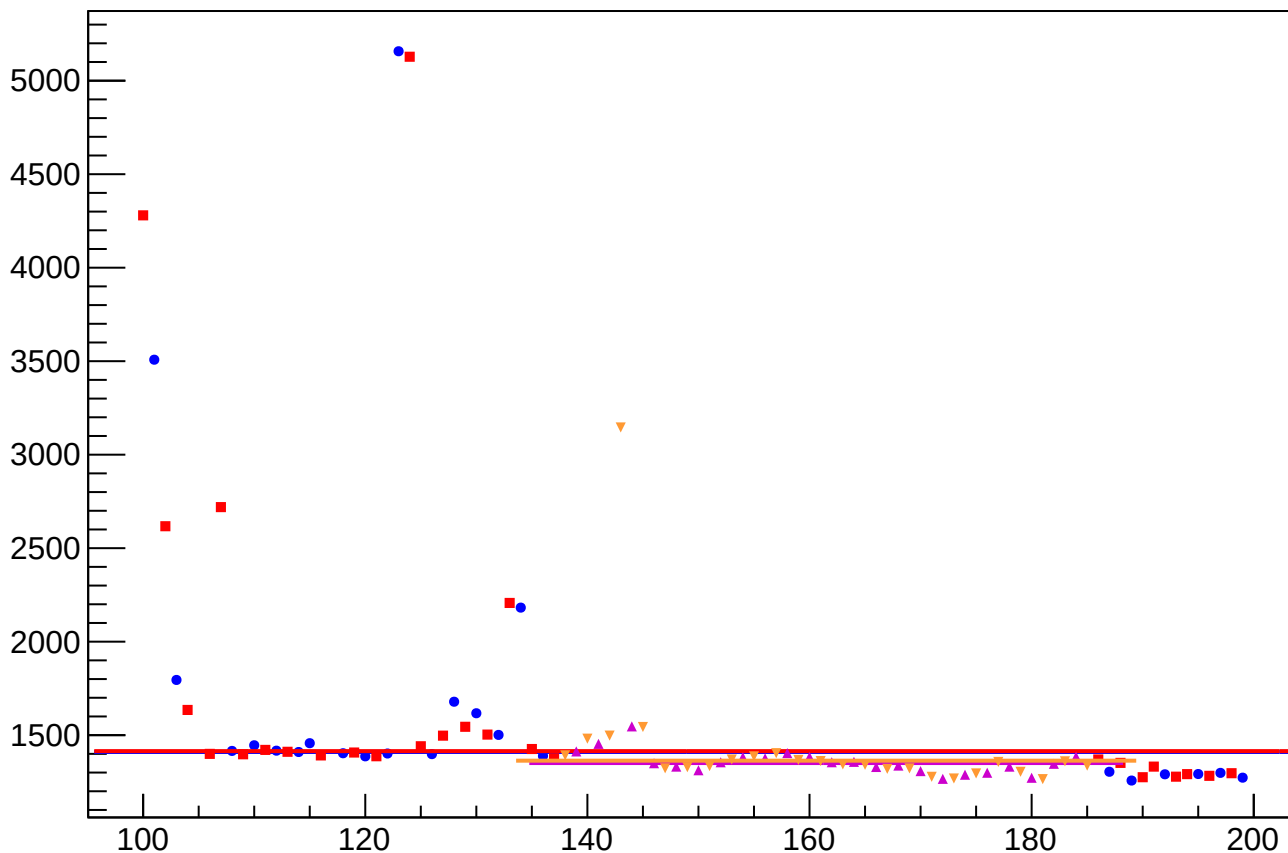
Right: -406.618 $\pm$ 304.053 χ^2 /NDF: 36.2/49

In: -470.995 $\pm$ 261.617 χ^2 /NDF:49.4/45

Out: -322.831 $\pm$ 254.465 χ^2 /NDF:53.5/51

All: -394.860 $\pm$ 182.410 χ^2 /NDF: 103.1/97

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: 1414.643+/-0.296 χ^2/NDF : 780055.3/26

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

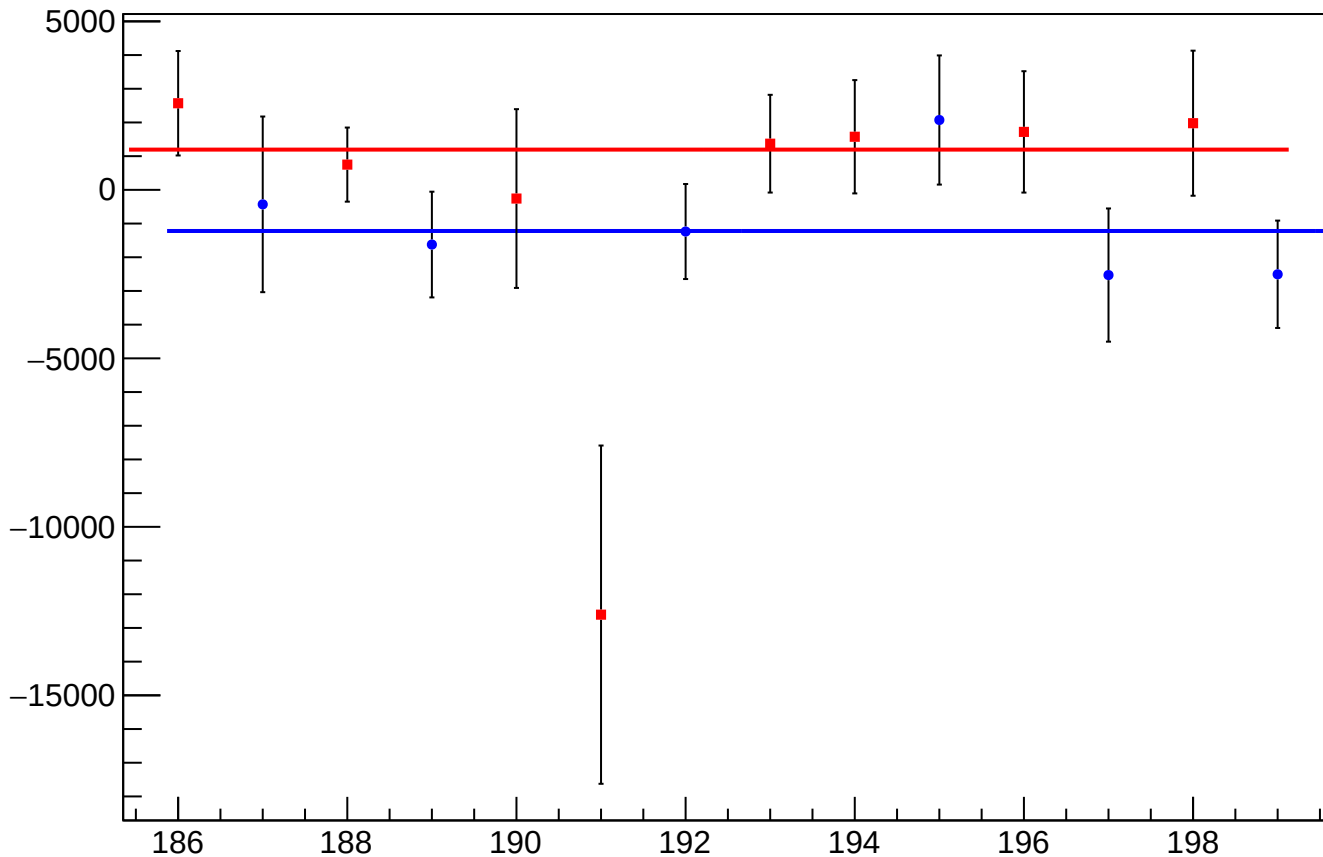
Right: 1412.499+/-0.215 χ^2/NDF : 1457954.8/49

In: 1371.596+/-0.185 χ^2/NDF : 768209.7/45

Out: 1382.450+/-0.180 χ^2/NDF : 1374063.8/51

All: 1377.174+/-0.129 χ^2/NDF : 2144042.4/97

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: 1194.393+/-599.901 χ^2/NDF : 9.1/7

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

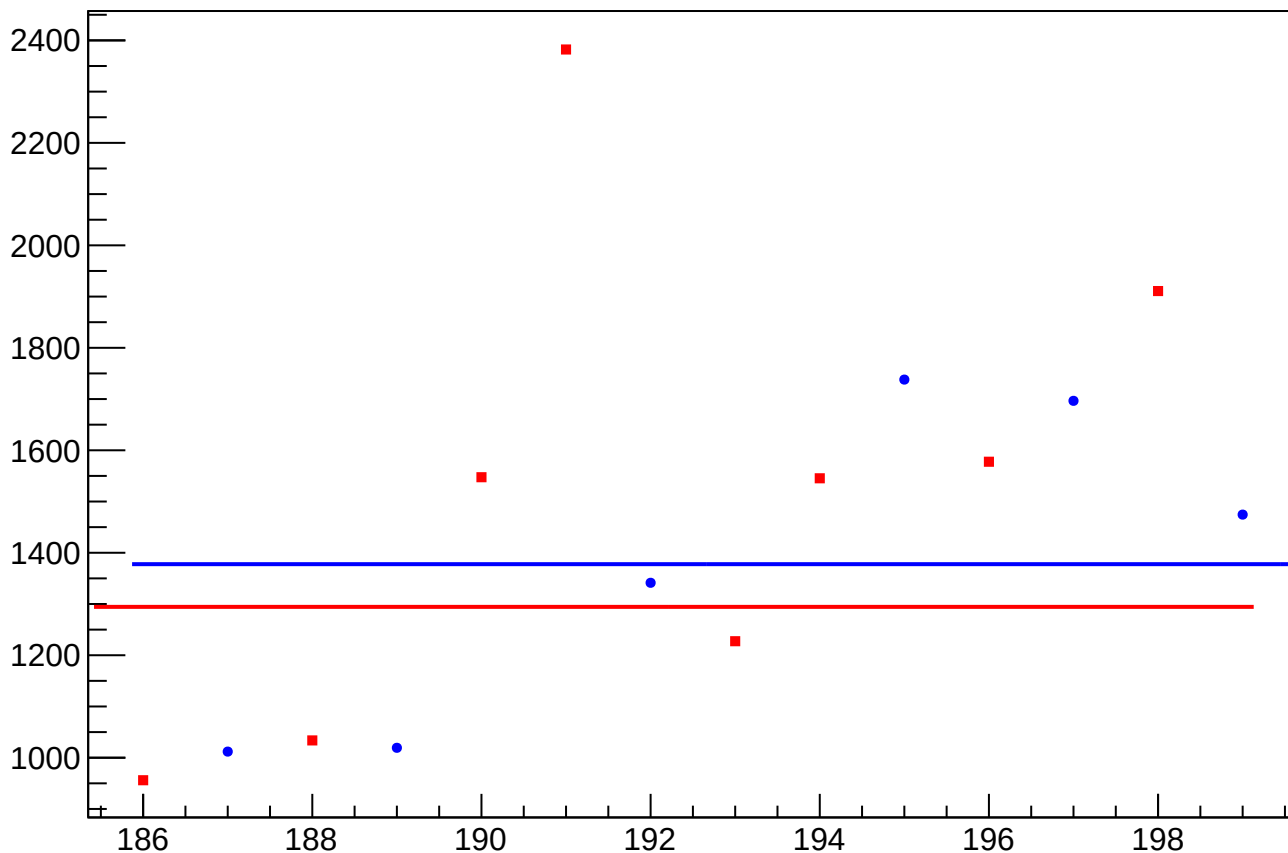
Right: 189.899+/-458.458 χ^2/NDF : 20.0/13

In: -1220.470+/-710.840 χ^2/NDF : 4.2/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 189.899+/-458.458 χ^2/NDF : 20.0/13

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: 1294.415+/-0.424 χ^2/NDF : 582176.8/7

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

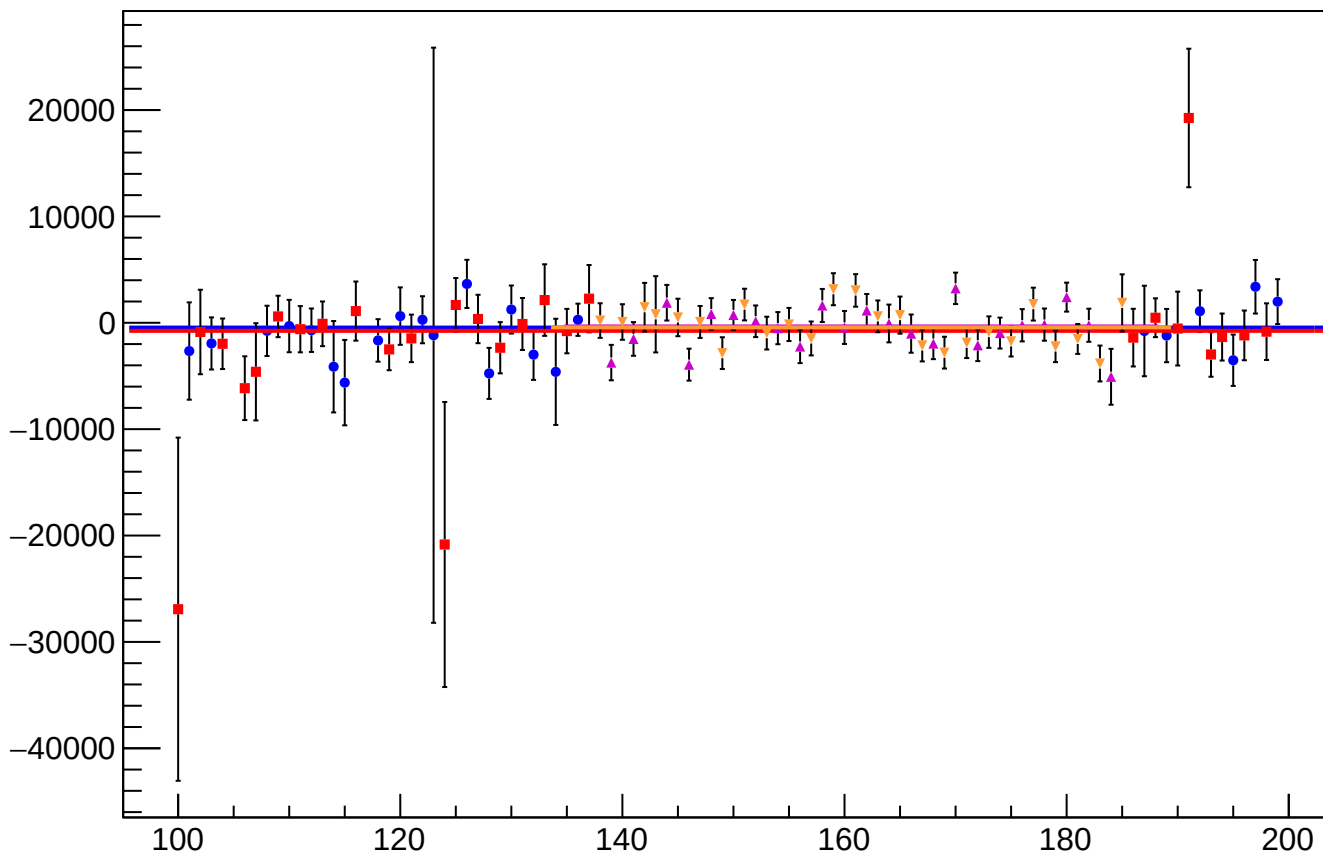
Right: 1329.079+/-0.324 χ^2/NDF : 873443.8/13

In: 1377.748+/-0.503 χ^2/NDF : 275213.9/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1329.079+/-0.324 χ^2/NDF : 873443.8/13

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: -756.175+/-493.348 χ^2/NDF : 25.5/26

Left In: -343.737+/-324.368 χ^2/NDF : 33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

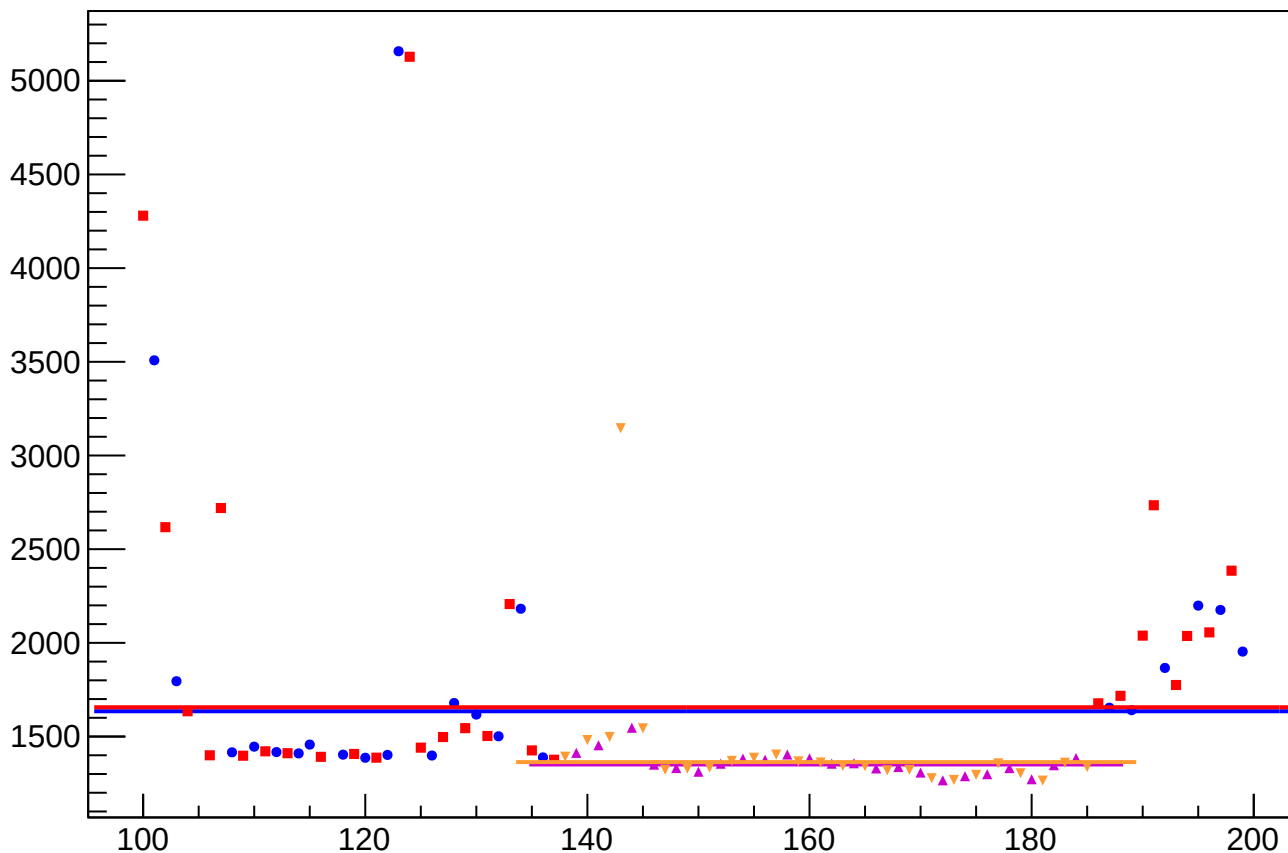
Right: -609.450+/-356.606 χ^2/NDF : 44.5/49

In: -373.521+/-274.624 χ^2/NDF : 52.6/45

Out: -528.026+/-268.789 χ^2/NDF : 58.9/51

All: -452.432+/-192.092 χ^2/NDF : 111.7/97

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: 1656.317+/-0.349 χ^2/NDF : 1078425.5/26

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

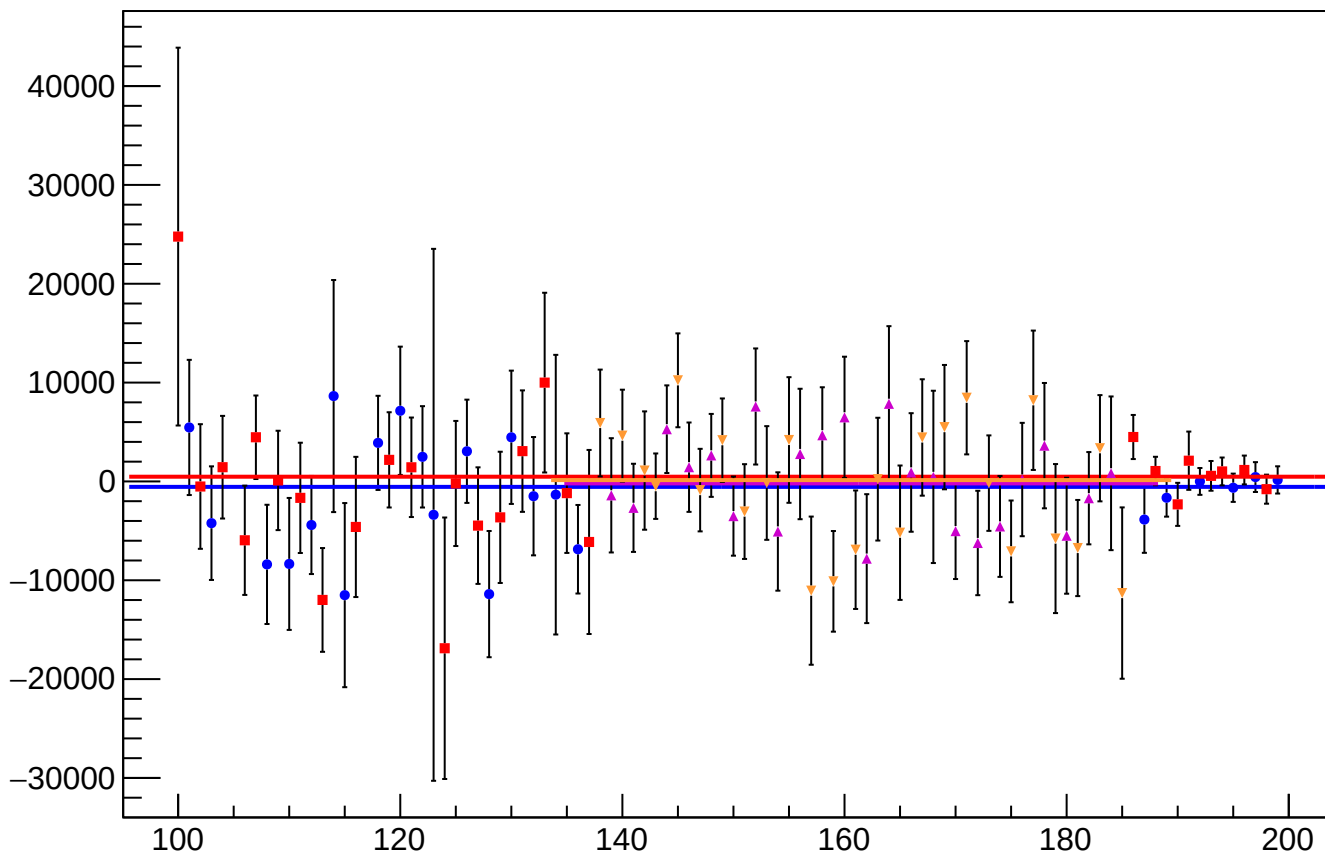
Right: 1646.090+/-0.252 χ^2/NDF : 1965625.0/49

In: 1431.334+/-0.194 χ^2/NDF : 1386703.8/45

Out: 1450.462+/-0.190 χ^2/NDF : 2148869.2/51

All: 1441.104+/-0.136 χ^2/NDF : 3540528.5/97

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -550.891 ± 598.307 χ^2/NDF : 17.6/22

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: 477.373 ± 541.289 χ^2/NDF : 21.5/26

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

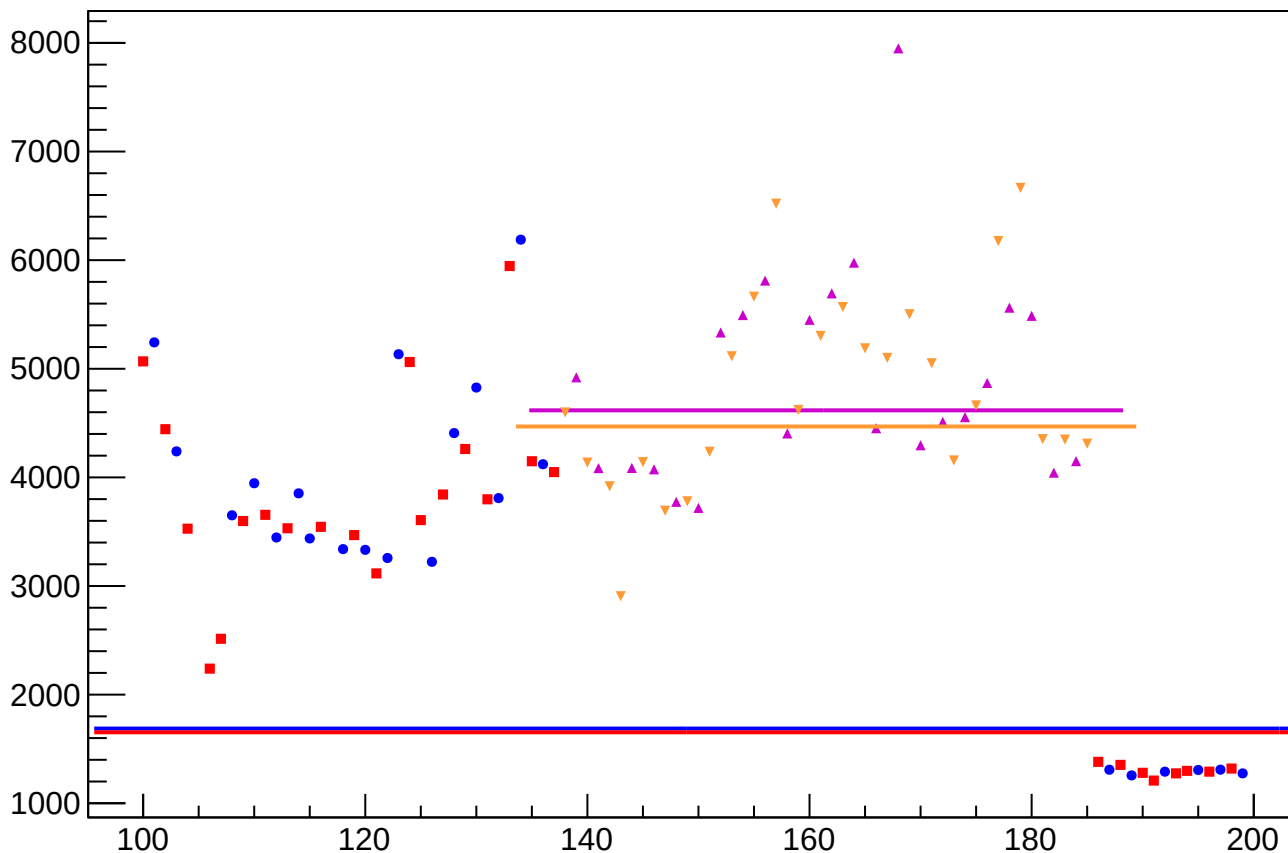
Right: 14.560 ± 401.397 χ^2/NDF : 40.7/49

In: -473.405 ± 528.092 χ^2/NDF : 32.4/45

Out: 406.558 ± 482.591 χ^2/NDF : 49.7/51

All: 6.112 ± 356.245 χ^2/NDF : 83.6/97

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: 1653.154 $\pm$ 0.382 χ^2 /NDF: 5007551.8/26

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

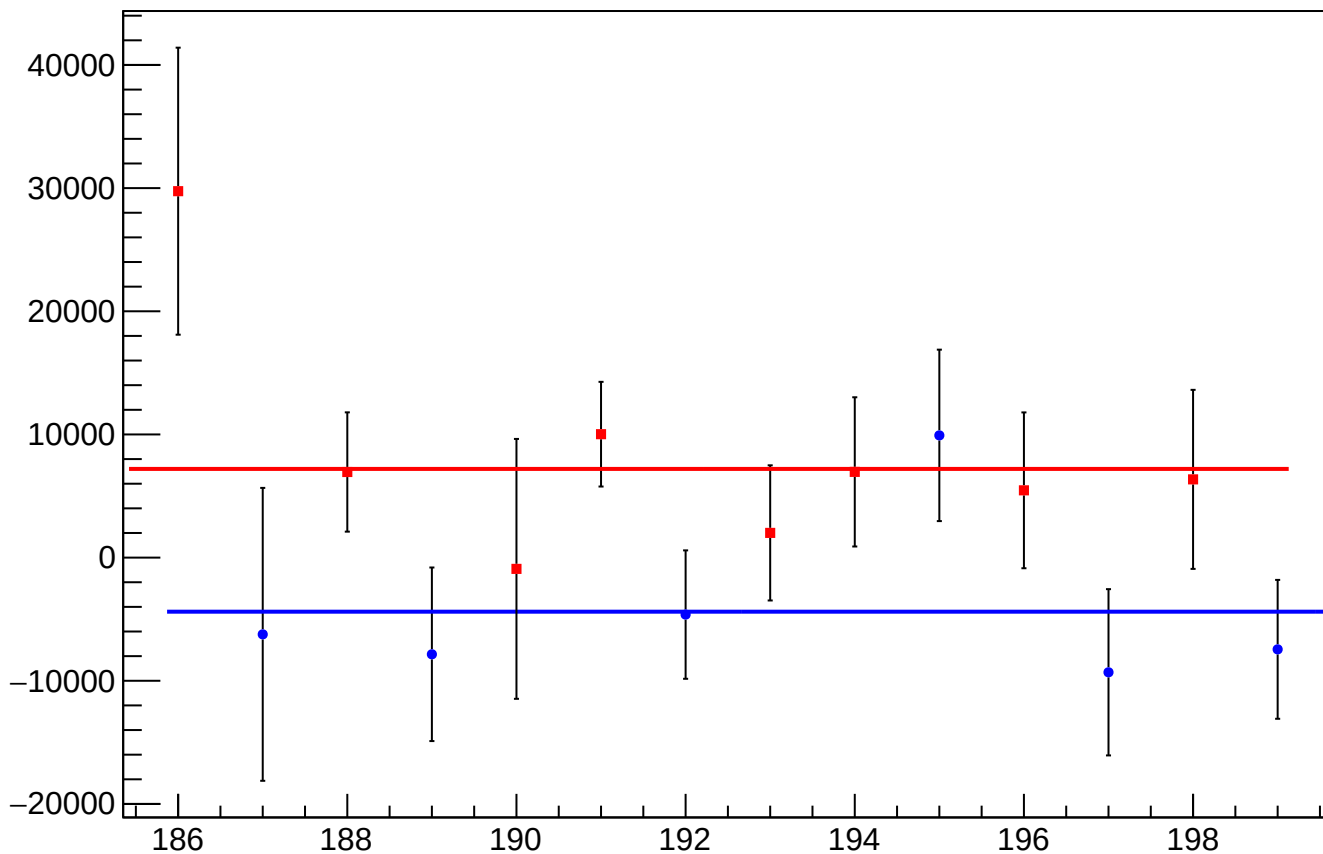
Right: 1668.635 $\pm$ 0.284 χ^2 /NDF: 10125824.3/49

In: 2334.882 $\pm$ 0.373 χ^2 /NDF:16709202.9/45

Out: 2229.353 $\pm$ 0.341 χ^2 /NDF:17492919.0/51

All: 2277.317 $\pm$ 0.252 χ^2 /NDF: 34245687.2/95

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: 7201.372+/-2138.146 χ^2/NDF : 5.8/7

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

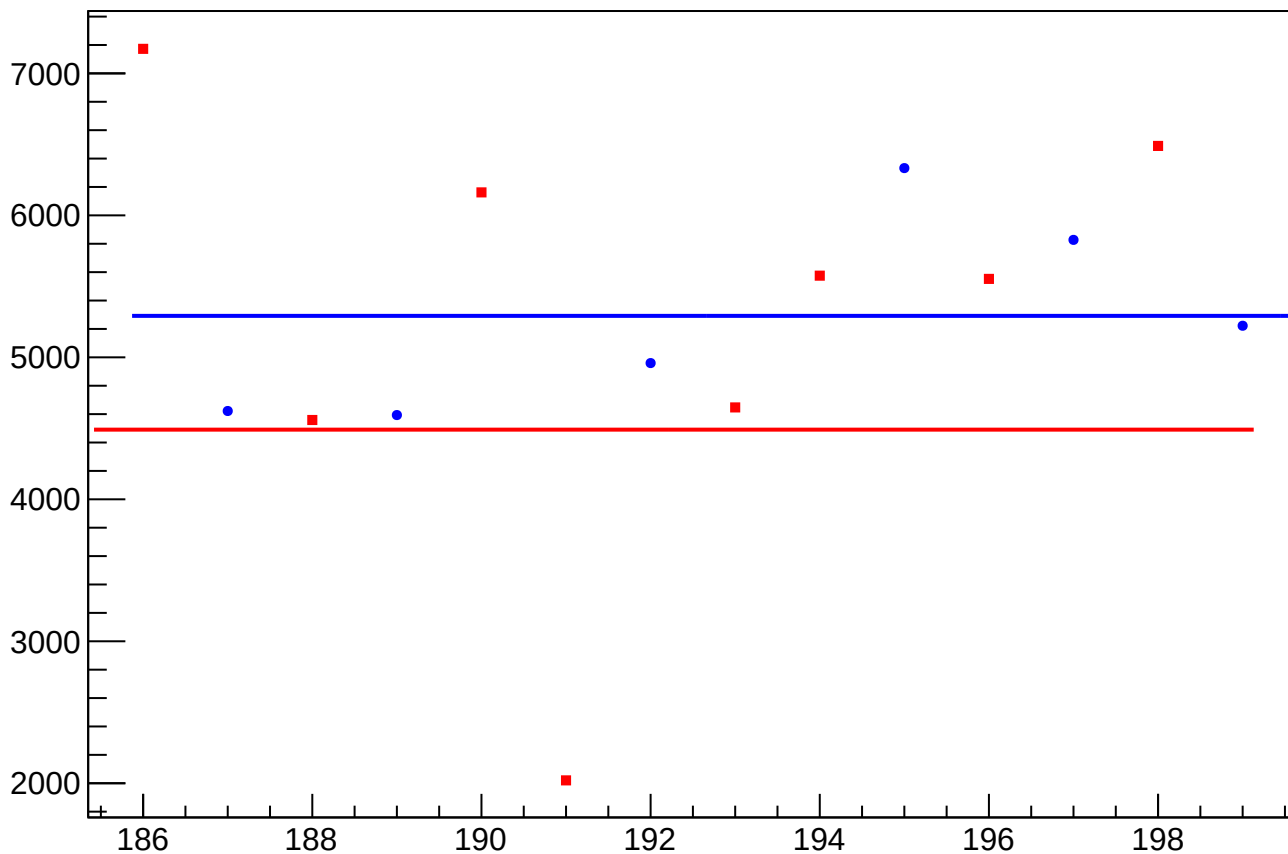
Right: 2716.126+/-1674.131 χ^2/NDF : 22.5/13

In: -4390.263+/-2691.341 χ^2/NDF :5.3/5

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 2716.126+/-1674.131 χ^2/NDF : 22.5/13

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: 4490.705+/-1.512 χ^2/NDF : 1105604.2/7

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

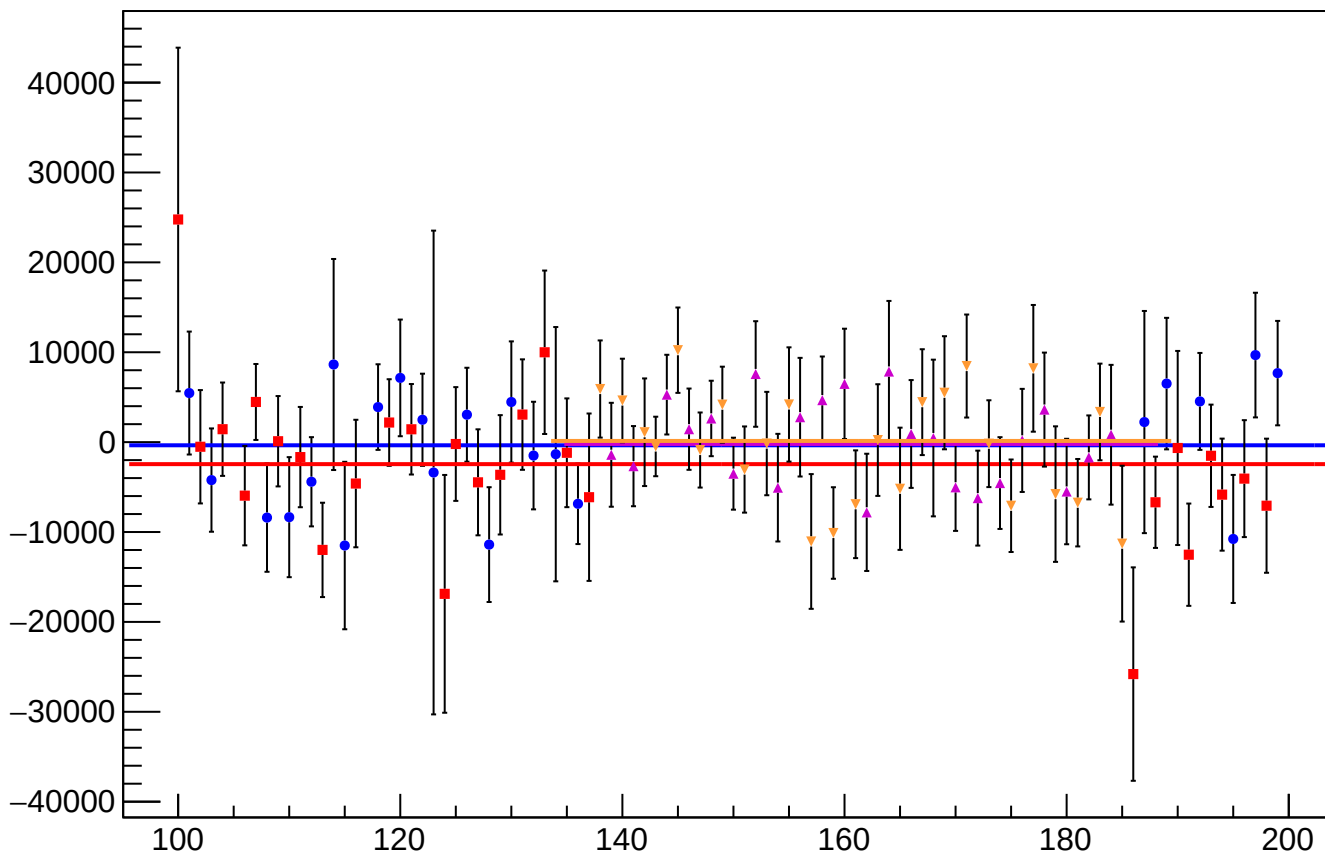
Right: 4800.795+/-1.184 χ^2/NDF : 1306078.4/13

In: 5292.100+/-1.903 χ^2/NDF : 91759.2/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4800.795+/-1.184 χ^2/NDF : 1306078.4/13

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: -2447.238+/-1189.067 χ^2/NDF : 23.8/26

Left In: -200.182+/-1123.499 χ^2/NDF : 14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

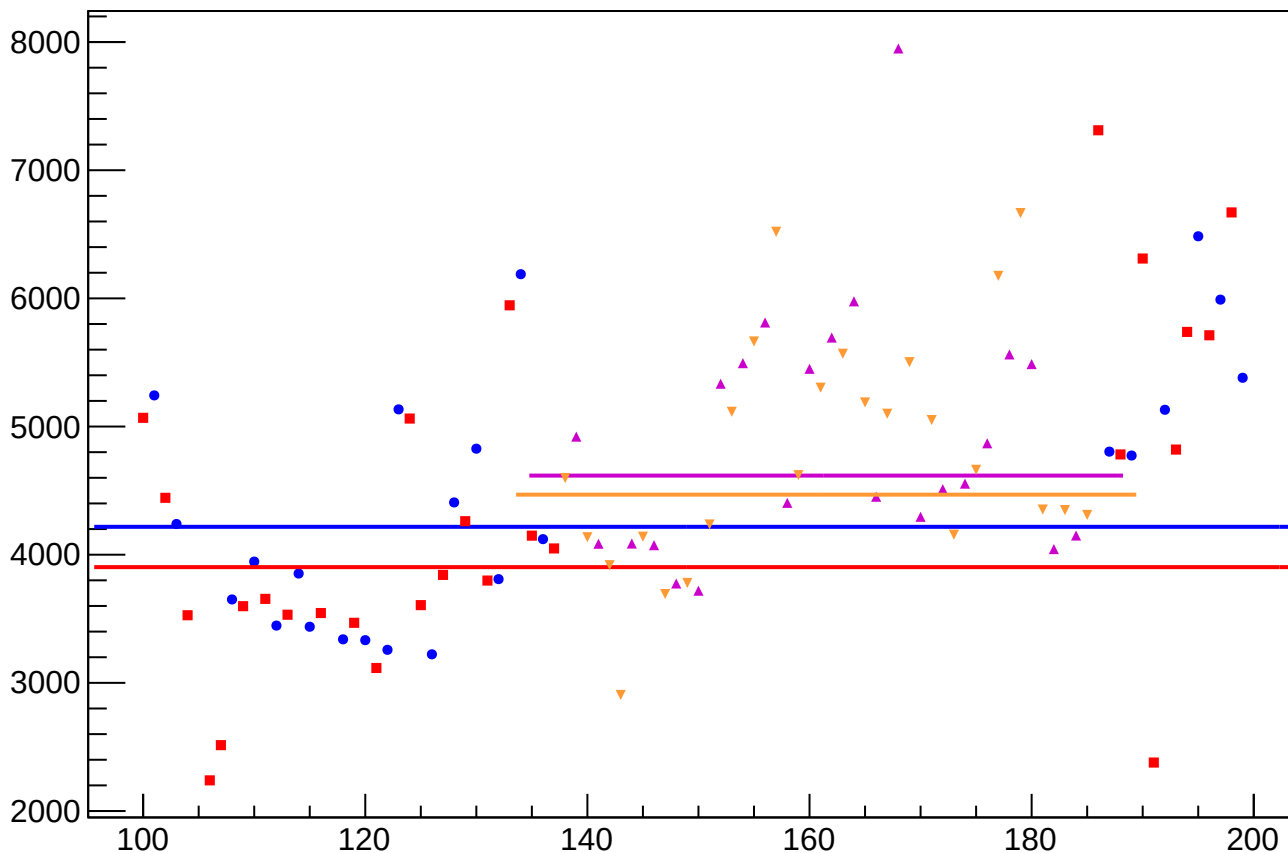
Right: -1517.057+/-886.944 χ^2/NDF : 48.7/49

In: -262.640+/-858.712 χ^2/NDF : 38.2/45

Out: -1016.653+/-793.542 χ^2/NDF : 54.5/51

All: -669.341+/-582.798 χ^2/NDF : 93.2/97

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4217.506+/-0.942 χ^2/NDF : 934212.6/22

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 3903.025+/-0.835 χ^2/NDF : 1829538.8/26

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

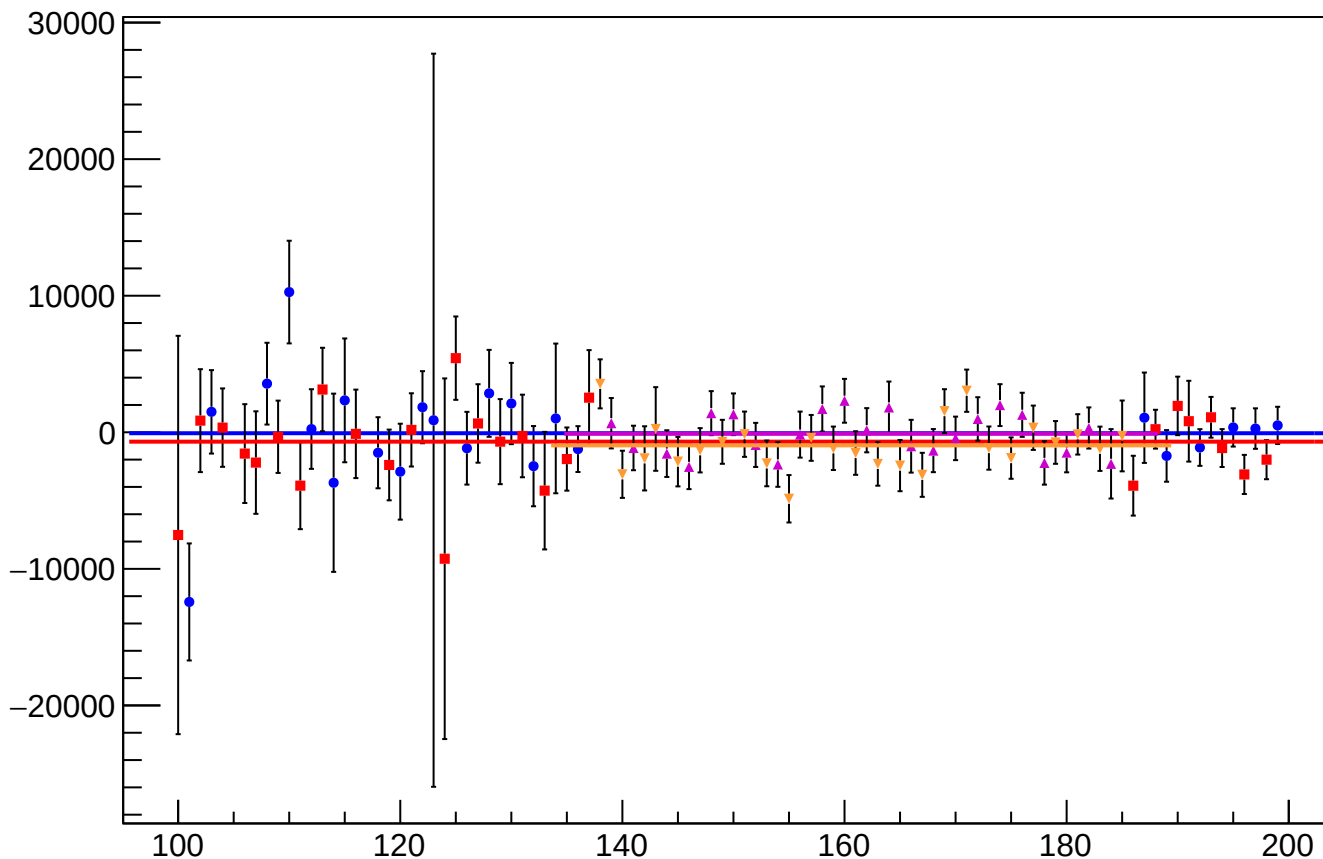
Right: 4041.479+/-0.625 χ^2/NDF : 2826186.6/49

In: 4451.051+/-0.607 χ^2/NDF : 2039118.7/45

Out: 4214.759+/-0.559 χ^2/NDF : 3462919.0/51

All: 4323.243+/-0.411 χ^2/NDF : 5583950.0/97

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: -685.967 ± 455.231 $\chi^2/\text{NDF}: 20.0/26$

Left In: -107.512 ± 343.663 $\chi^2/\text{NDF}: 19.5/22$

Left: -538.150 ± 241.520 $\chi^2/\text{NDF}: 51.1/47$

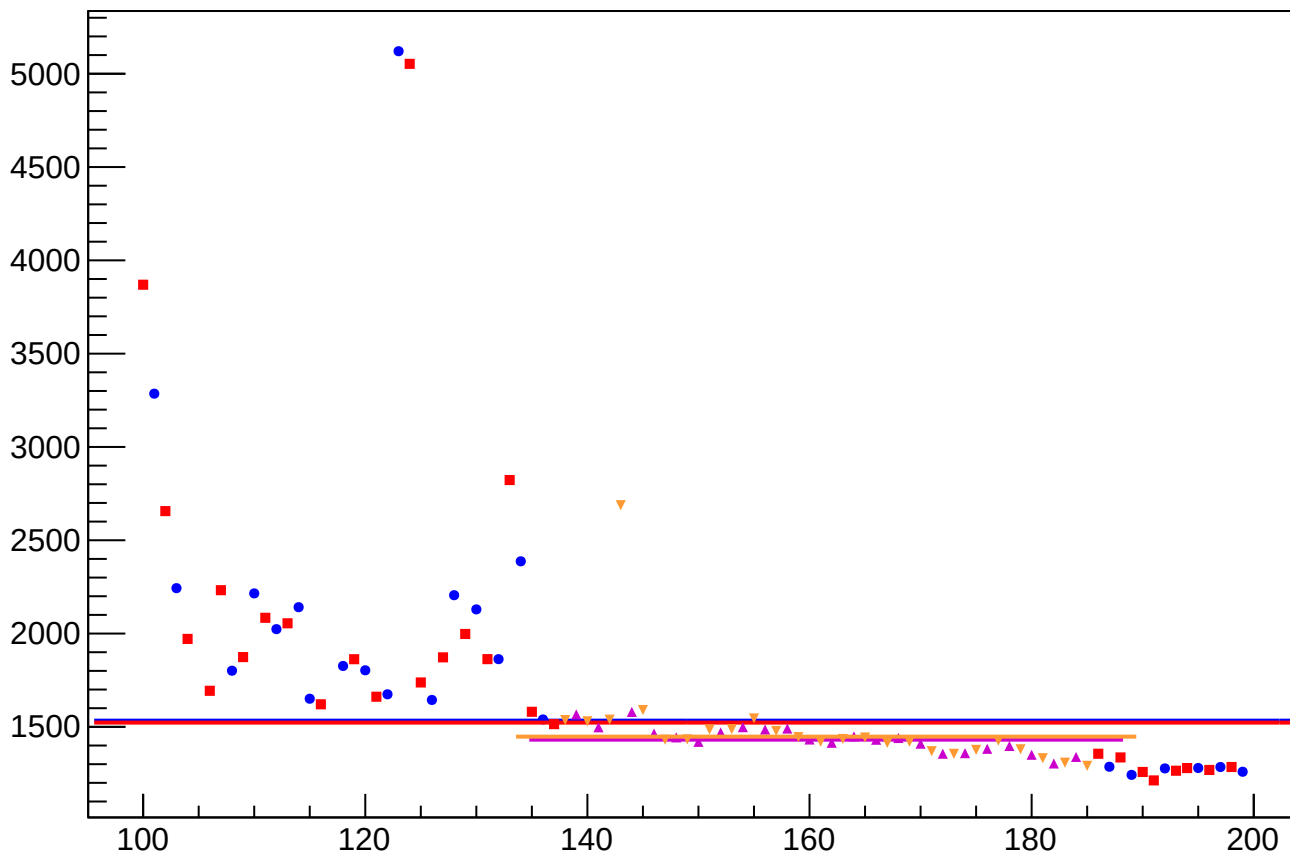
Right: -398.796 ± 332.959 $\chi^2/\text{NDF}: 45.0/49$

In: -94.572 ± 281.028 $\chi^2/\text{NDF}: 43.7/45$

Out: -861.040 ± 272.149 $\chi^2/\text{NDF}: 48.7/51$

All: -490.106 ± 195.502 $\chi^2/\text{NDF}: 96.2/97$

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: 1522.874+/-0.322 χ^2/NDF : 1333062.7/26

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

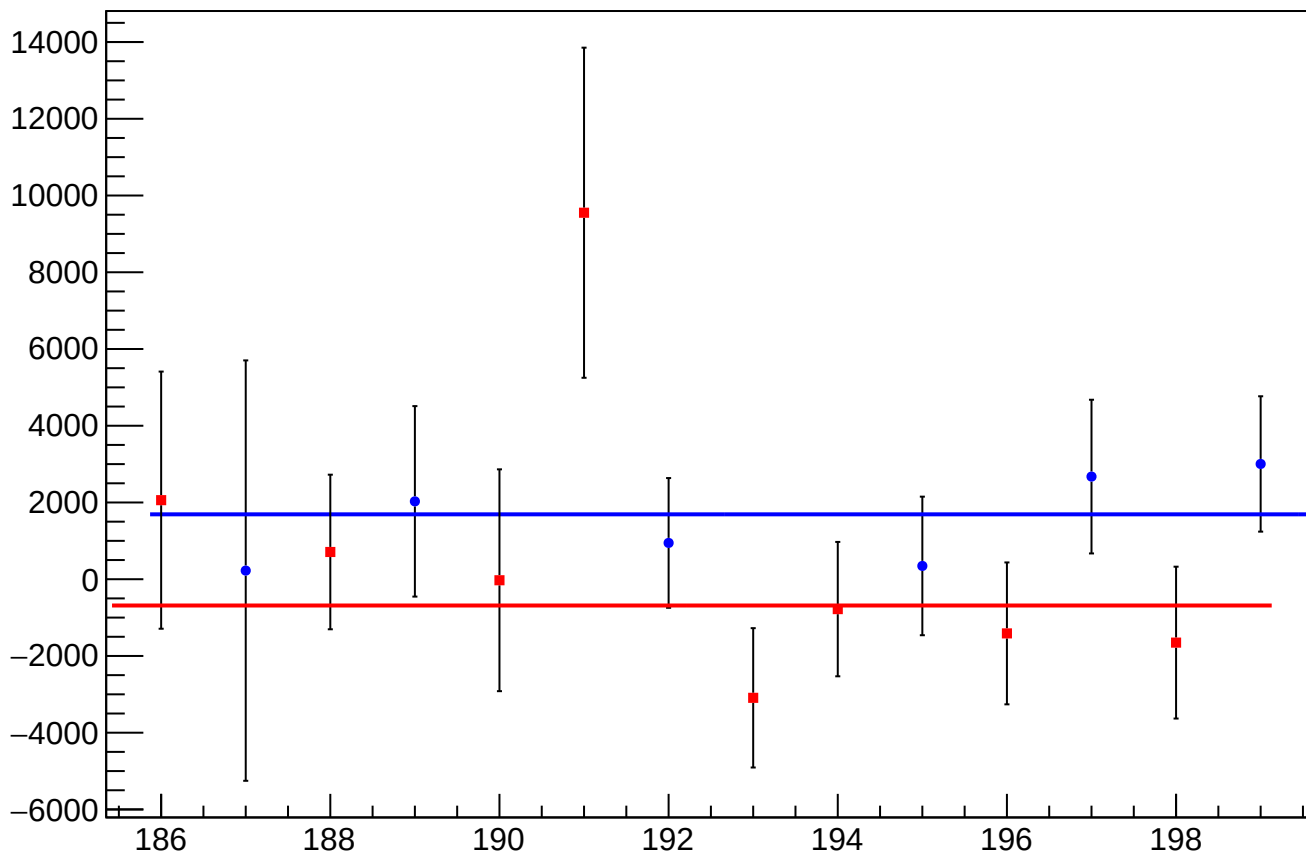
Right: 1527.718+/-0.235 χ^2/NDF : 2592483.4/49

In: 1465.193+/-0.199 χ^2/NDF : 1392243.3/45

Out: 1474.474+/-0.192 χ^2/NDF : 1787499.8/51

All: 1469.982+/-0.138 χ^2/NDF : 3180868.7/97

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: -684.911+/-770.048 χ^2/NDF : 9.0/7

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

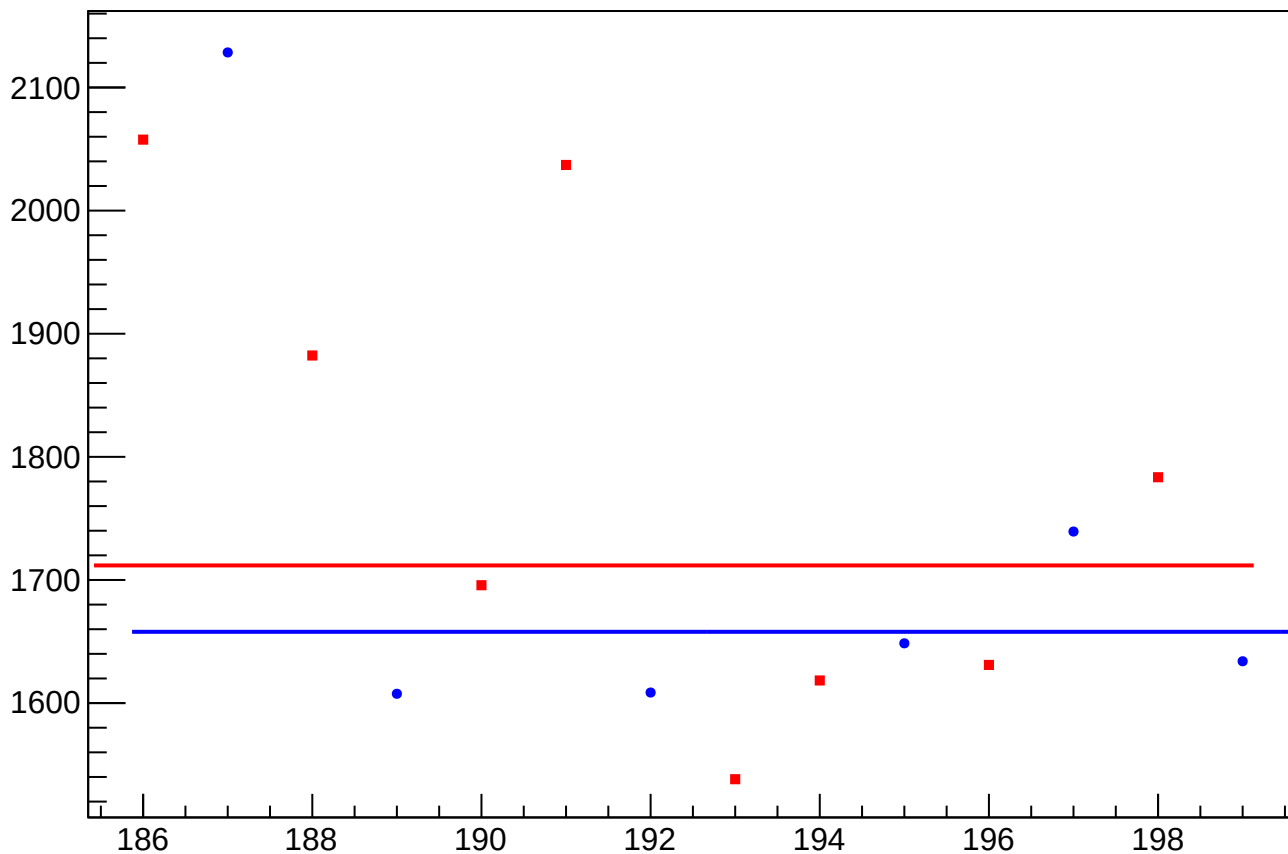
Right: 402.404+/-567.113 χ^2/NDF : 15.0/13

In: 1691.108+/-838.333 χ^2/NDF : 1.6/5

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 402.404+/-567.113 χ^2/NDF : 15.0/13

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: 1711.811+/-0.545 χ^2/NDF : 77551.8/7

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

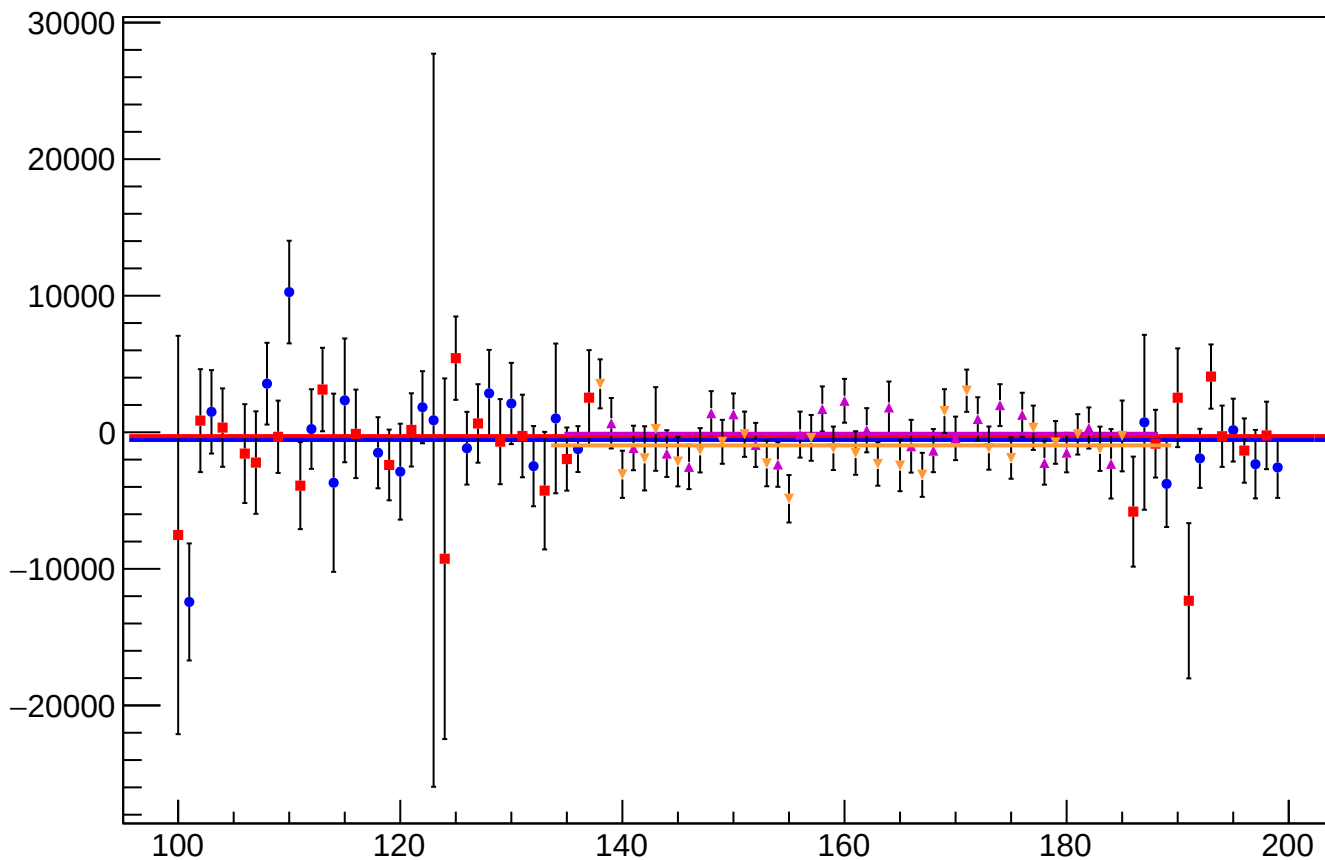
Right: 1687.138+/-0.401 χ^2/NDF : 103046.8/13

In: 1657.896+/-0.593 χ^2/NDF :21008.4/5

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 1687.138+/-0.401 χ^2/NDF : 103046.8/13

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: -279.642+/-587.156 χ^2/NDF : 20.8/26

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

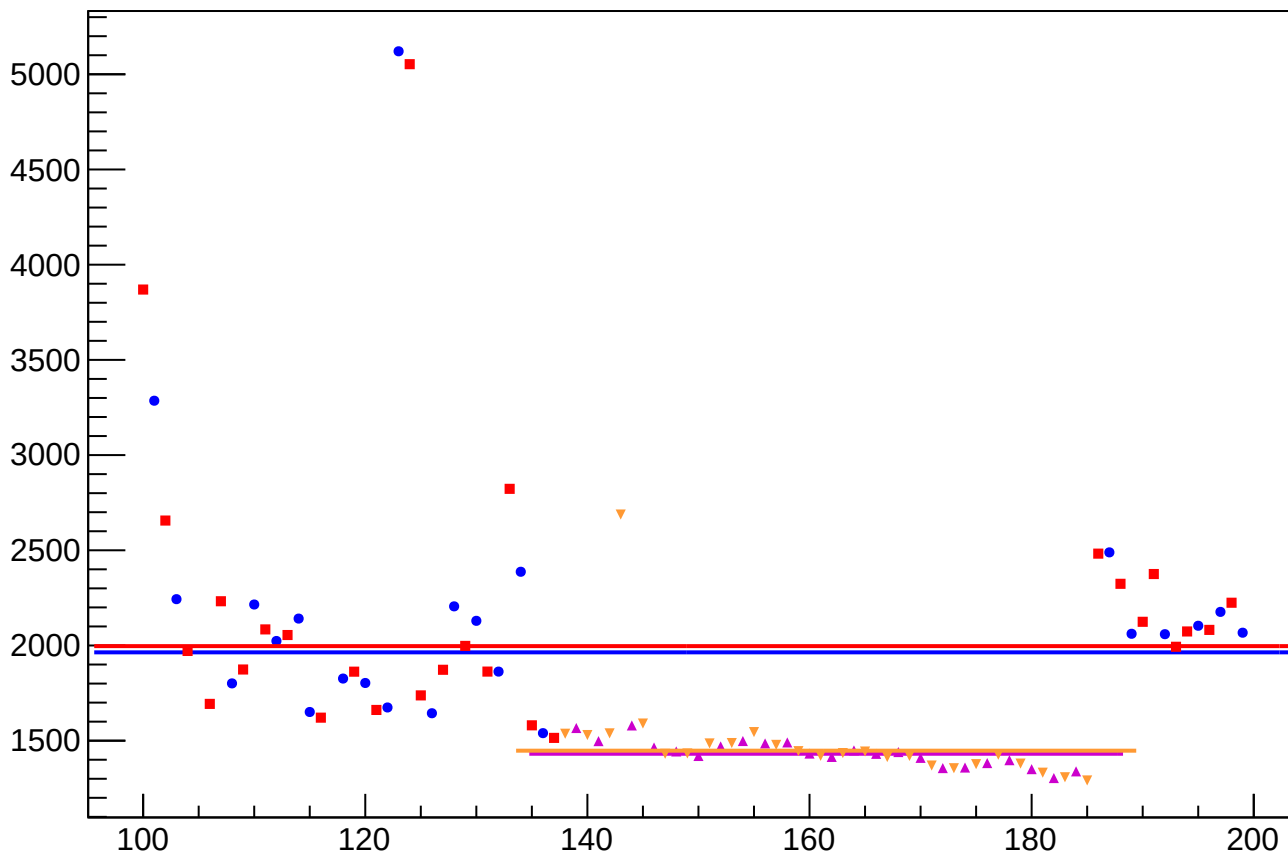
Right: -414.103+/-424.418 χ^2/NDF : 46.9/49

In: -215.694+/-299.907 χ^2/NDF : 45.8/45

Out: -788.341+/-293.904 χ^2/NDF : 50.3/51

All: -507.806+/-209.912 χ^2/NDF : 98.0/97

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: 1996.663 $\pm$ 0.415 χ^2 /NDF: 589566.8/26

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

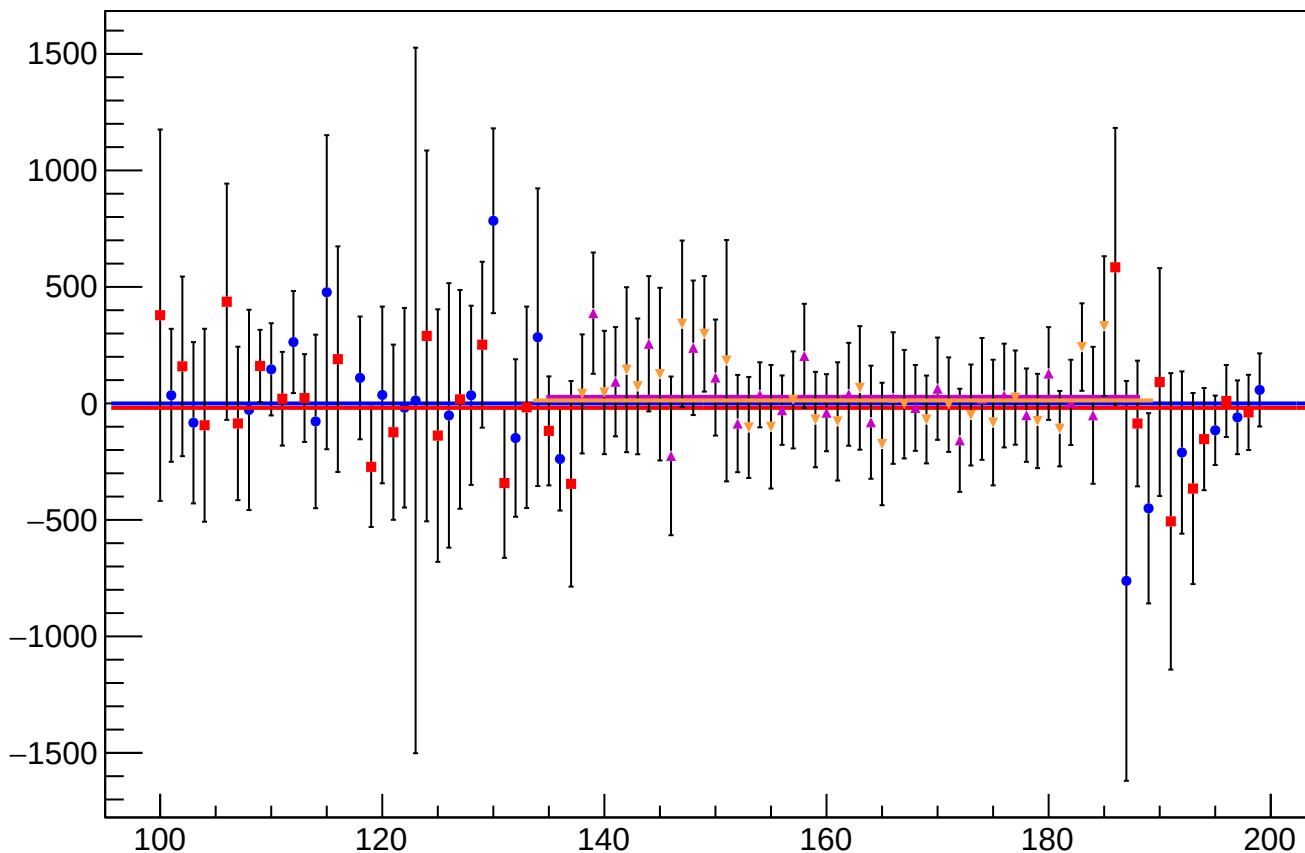
Right: 1981.054 $\pm$ 0.300 χ^2 /NDF: 1121600.9/49

In: 1558.425 $\pm$ 0.212 χ^2 /NDF: 1749190.7/45

Out: 1585.138 $\pm$ 0.208 χ^2 /NDF: 2319772.1/51

All: 1572.052 $\pm$ 0.148 χ^2 /NDF: 4077056.8/97

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: -19.183 ± 54.711 $\chi^2/\text{NDF}: 9.4/26$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

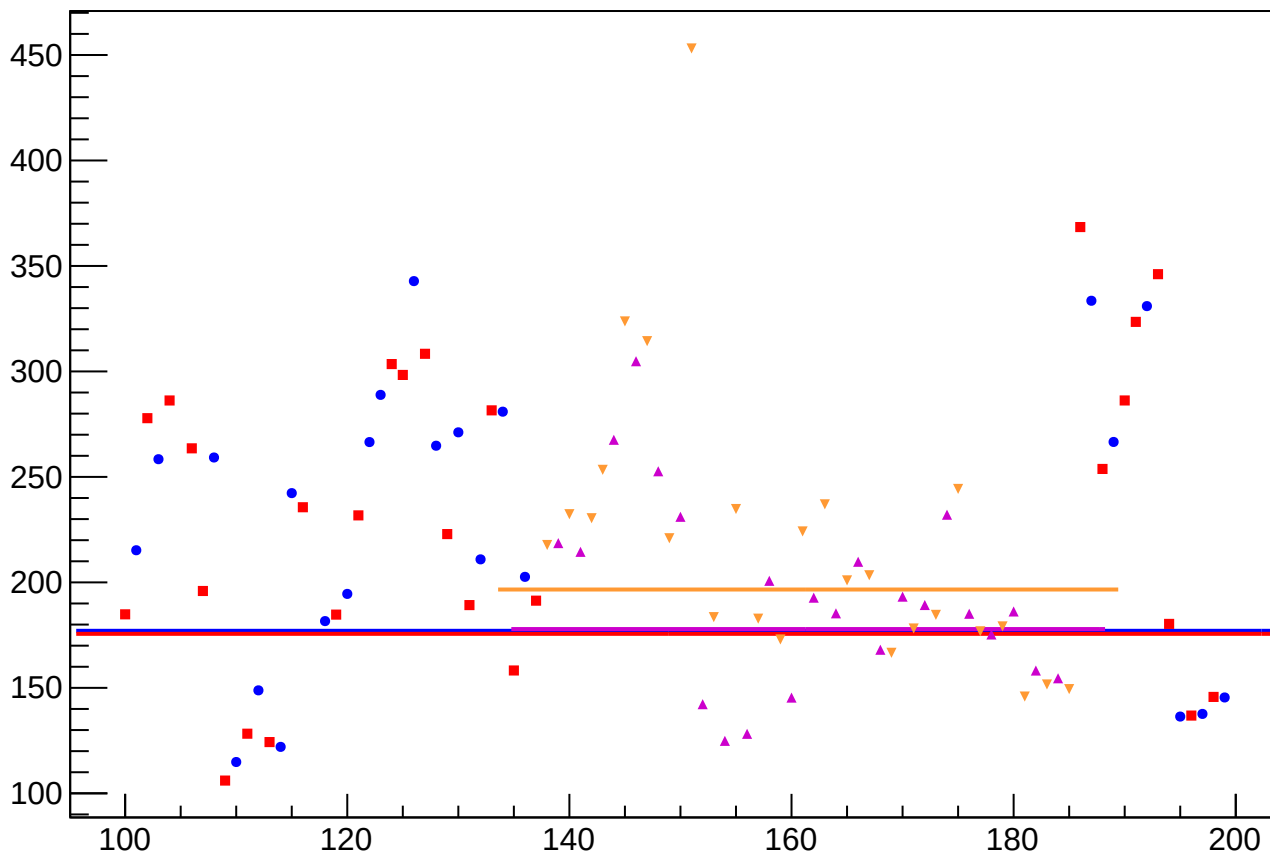
Right: -10.255 ± 39.775 $\chi^2/\text{NDF}: 21.0/49$

In: 17.461 ± 35.301 $\chi^2/\text{NDF}: 18.2/45$

Out: -1.045 ± 35.862 $\chi^2/\text{NDF}: 17.2/51$

All: 8.353 ± 25.158 $\chi^2/\text{NDF}: 35.6/97$

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: 175.611 $\pm$ 0.039 χ^2 /NDF: 2704911.1/26

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

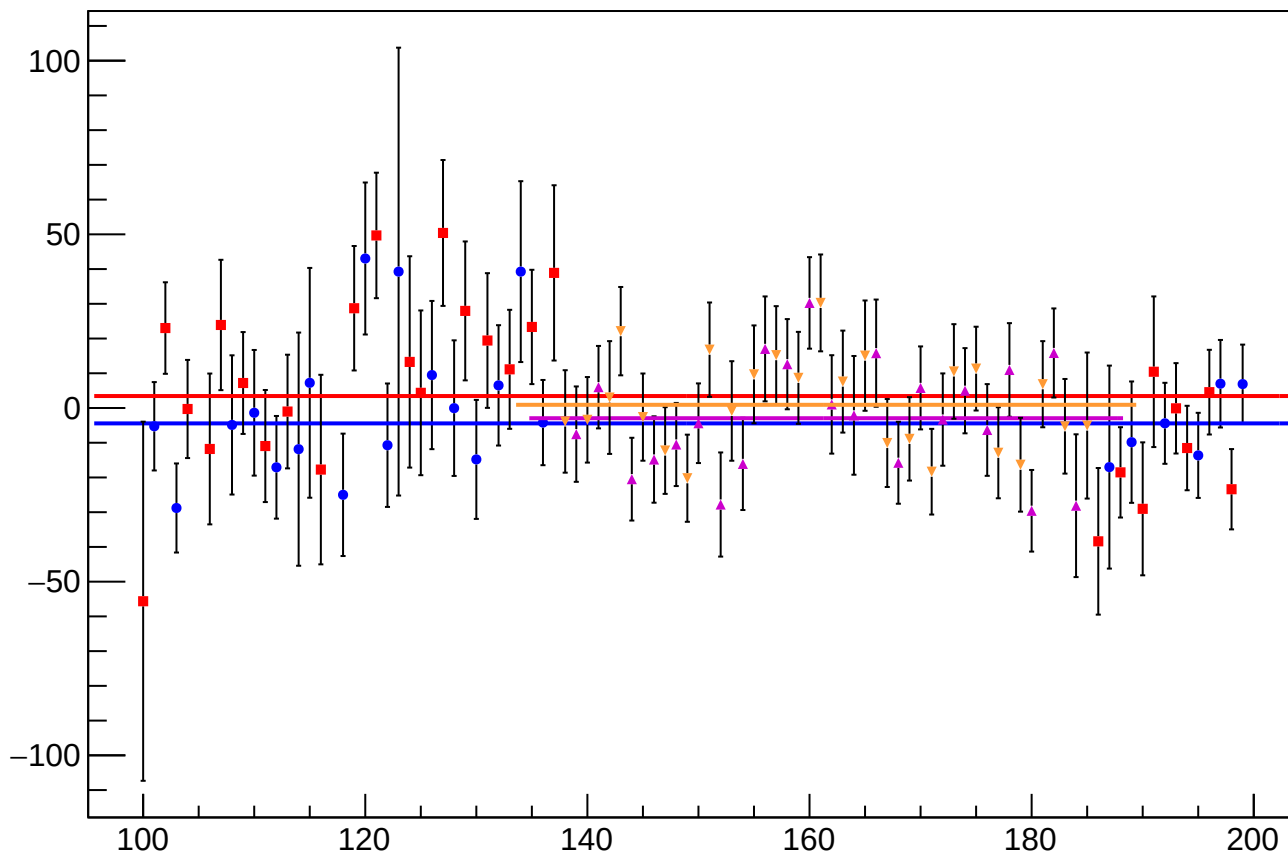
Right: 176.286 $\pm$ 0.028 χ^2 /NDF: 4715098.2/49

In: 177.567 $\pm$ 0.025 χ^2 /NDF:3653890.5/45

Out: 187.593 $\pm$ 0.025 χ^2 /NDF:4666614.2/51

All: 182.501 $\pm$ 0.018 χ^2 /NDF: 8399894.6/97

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: 3.445 ± 3.249 $\chi^2/\text{NDF}: 43.0/26$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

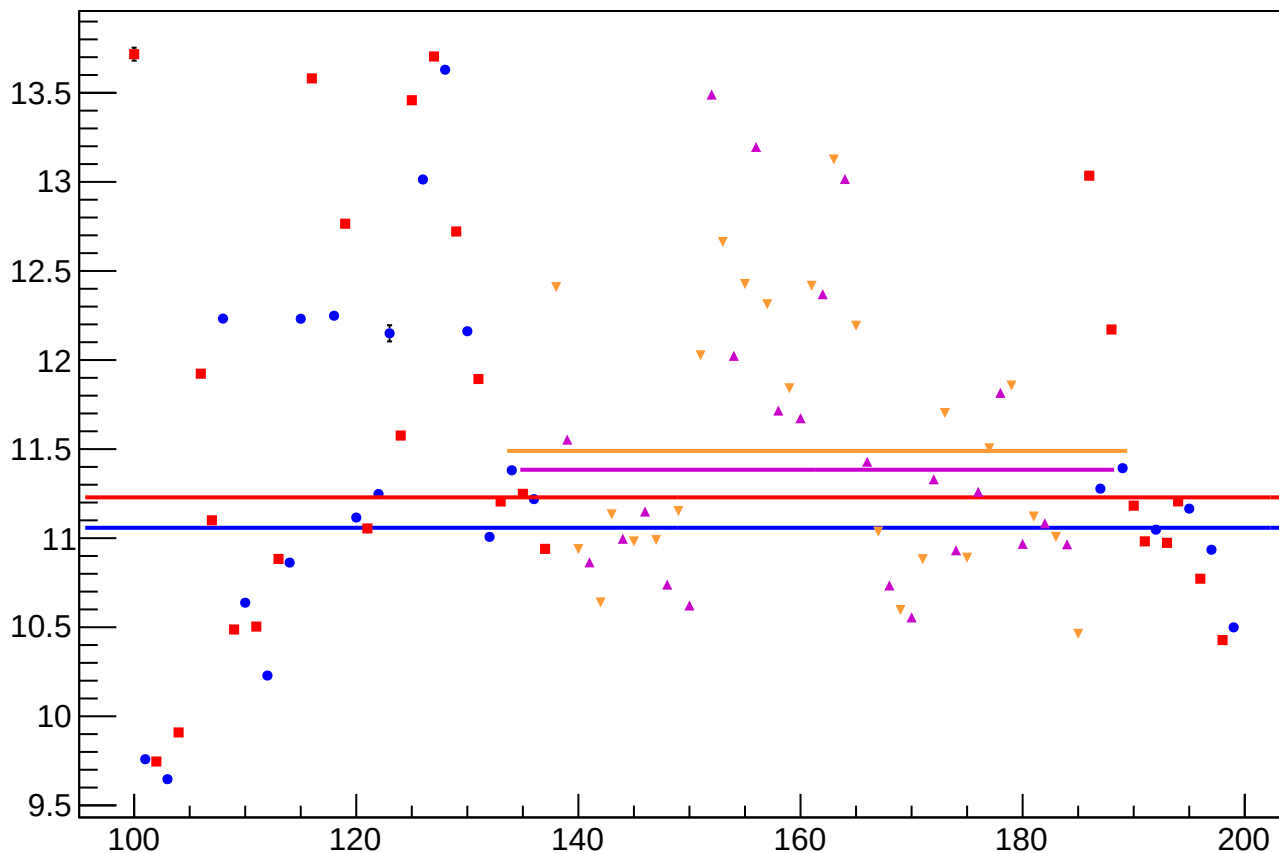
Right: -0.282 ± 2.358 $\chi^2/\text{NDF}: 63.7/49$

In: -3.523 ± 2.143 $\chi^2/\text{NDF}: 49.1/45$

Out: 1.950 ± 2.075 $\chi^2/\text{NDF}: 67.4/51$

All: -0.699 ± 1.491 $\chi^2/\text{NDF}: 119.8/97$

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: 11.229 $\pm$ 0.002 χ^2 /NDF: 187410.3/26

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

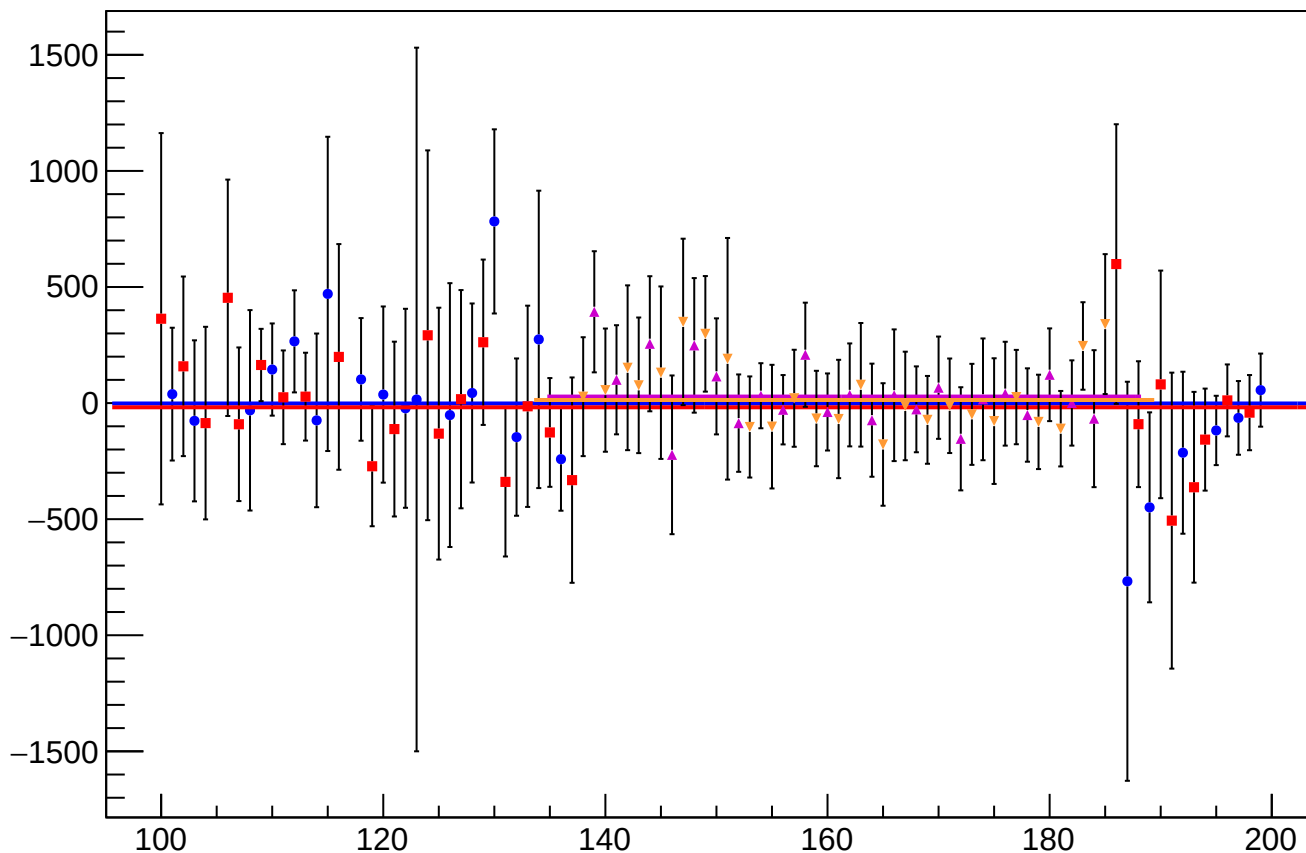
Right: 11.148 $\pm$ 0.002 χ^2 /NDF: 328385.8/49

In: 11.257 $\pm$ 0.002 χ^2 /NDF:299162.9/45

Out: 11.383 $\pm$ 0.001 χ^2 /NDF:327429.7/51

All: 11.322 $\pm$ 0.001 χ^2 /NDF: 630199.0/97

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: -18.163 ± 54.866 $\chi^2/\text{NDF}: 9.5/26$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

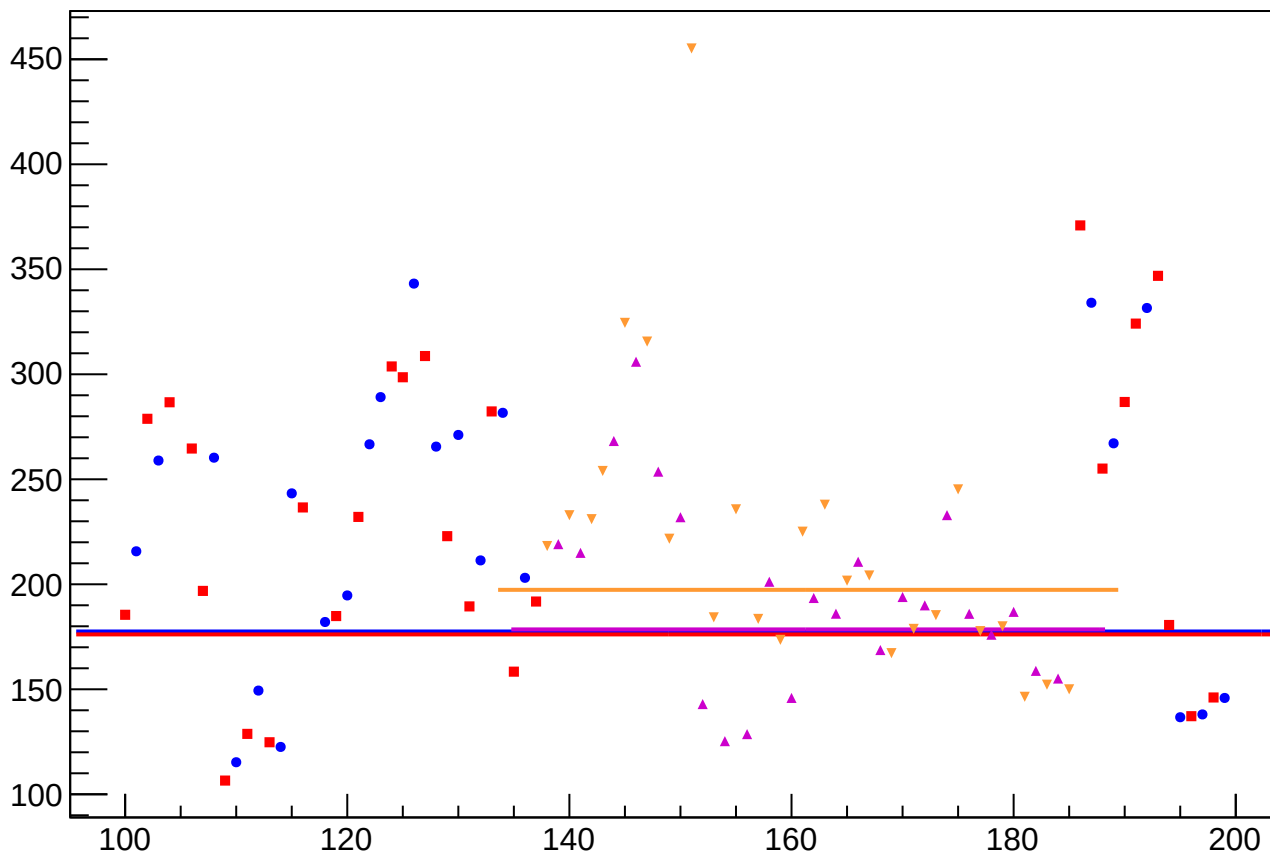
Right: -10.414 ± 39.883 $\chi^2/\text{NDF}: 21.1/49$

In: 16.977 ± 35.414 $\chi^2/\text{NDF}: 18.3/45$

Out: -0.219 ± 35.981 $\chi^2/\text{NDF}: 17.6/51$

All: 8.516 ± 25.240 $\chi^2/\text{NDF}: 36.0/97$

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: 176.129 $\pm$ 0.039 χ^2 /NDF: 2700368.3/26

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

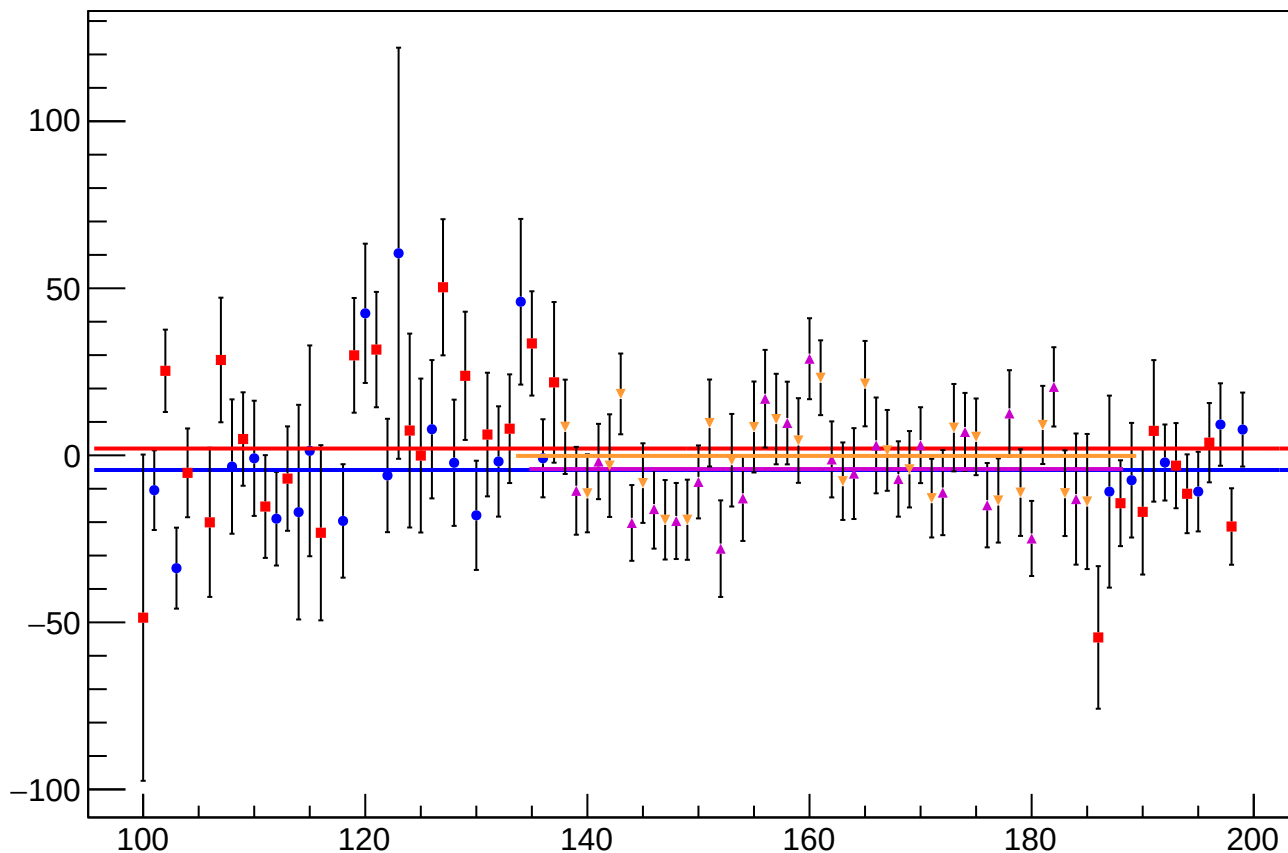
Right: 176.787 $\pm$ 0.028 χ^2 /NDF: 4705072.4/49

In: 178.145 $\pm$ 0.025 χ^2 /NDF:3646761.2/45

Out: 188.226 $\pm$ 0.025 χ^2 /NDF:4661789.3/51

All: 183.105 $\pm$ 0.018 χ^2 /NDF: 8388300.5/97

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: 2.036 ± 3.142 $\chi^2/\text{NDF}: 43.3/26$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

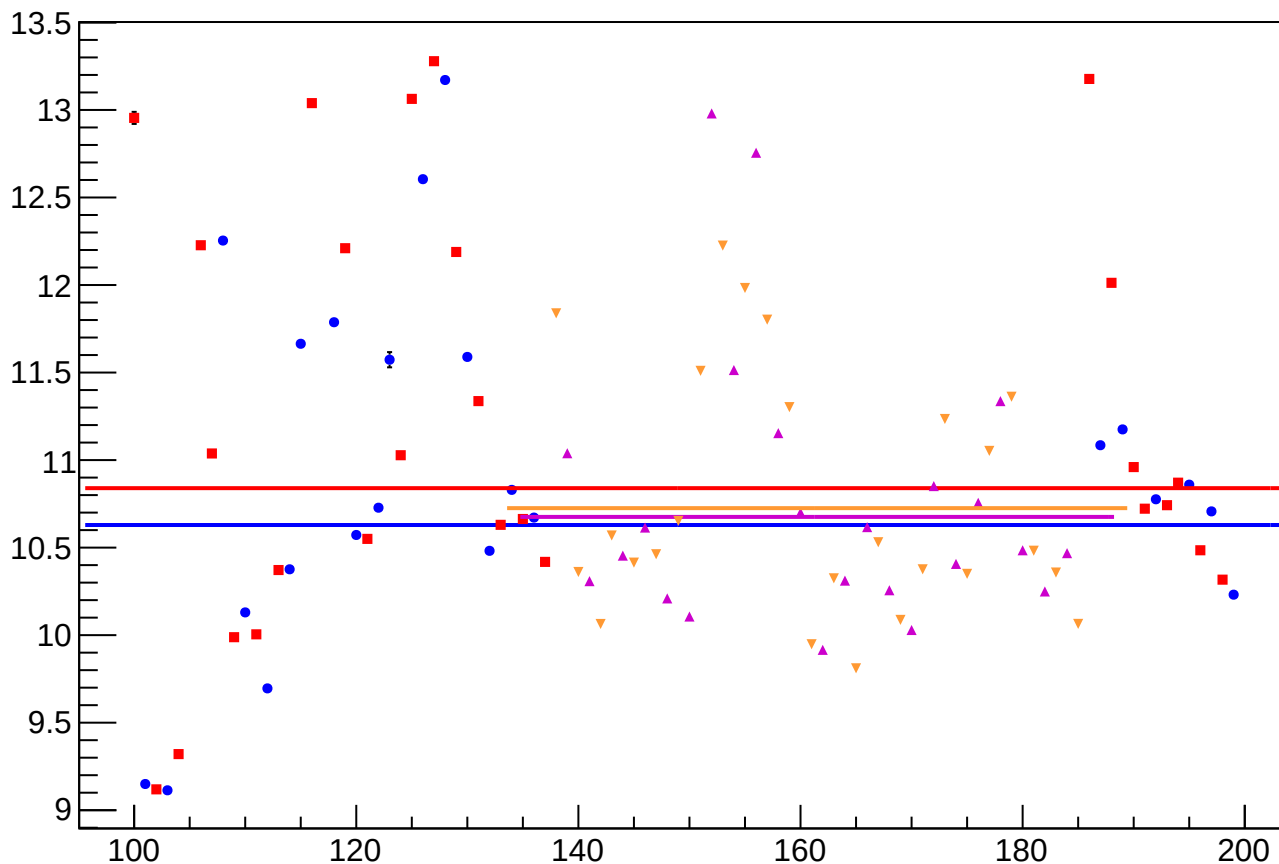
Right: -1.018 ± 2.276 $\chi^2/\text{NDF}: 67.9/49$

In: -4.213 ± 2.031 $\chi^2/\text{NDF}: 54.1/45$

Out: 0.694 ± 1.966 $\chi^2/\text{NDF}: 68.0/51$

All: -1.680 ± 1.413 $\chi^2/\text{NDF}: 125.1/97$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.629 $\pm$ 0.002 χ^2/NDF : 165699.6/22

Left Out: 10.725 $\pm$ 0.002 χ^2/NDF : 132170.8/24

Right Out: 10.840 $\pm$ 0.002 χ^2/NDF : 226066.7/26

Left In: 10.675 $\pm$ 0.002 χ^2/NDF : 145938.2/22

Left: 10.701 $\pm$ 0.001 χ^2/NDF : 278494.3/47

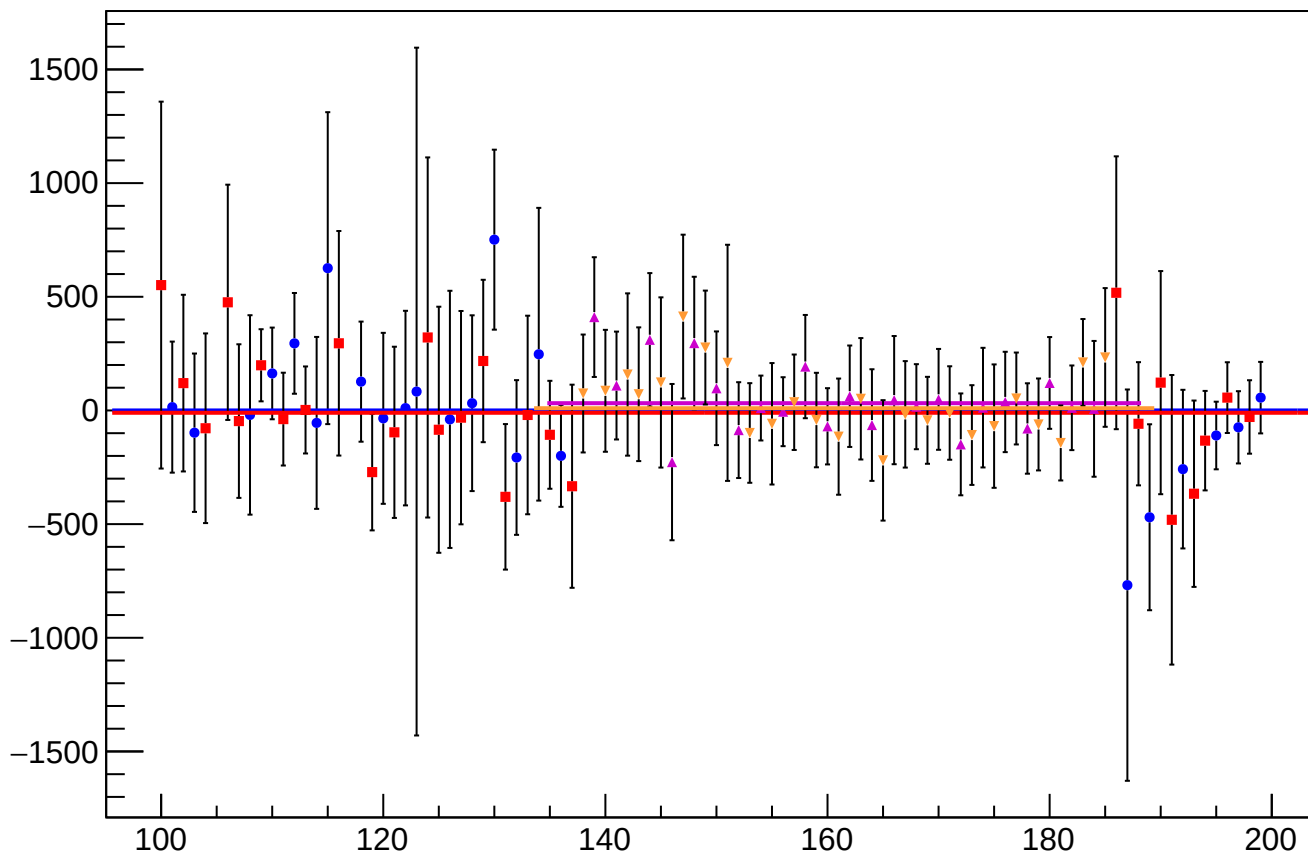
Right: 10.740 $\pm$ 0.002 χ^2/NDF : 396033.8/49

In: 10.658 $\pm$ 0.001 χ^2/NDF : 311882.2/45

Out: 10.770 $\pm$ 0.001 χ^2/NDF : 359843.9/51

All: 10.716 $\pm$ 0.001 χ^2/NDF : 674880.7/97

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -0.009 ± 58.245 $\chi^2/\text{NDF}: 12.1/22$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -10.207 ± 55.179 $\chi^2/\text{NDF}: 10.1/26$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

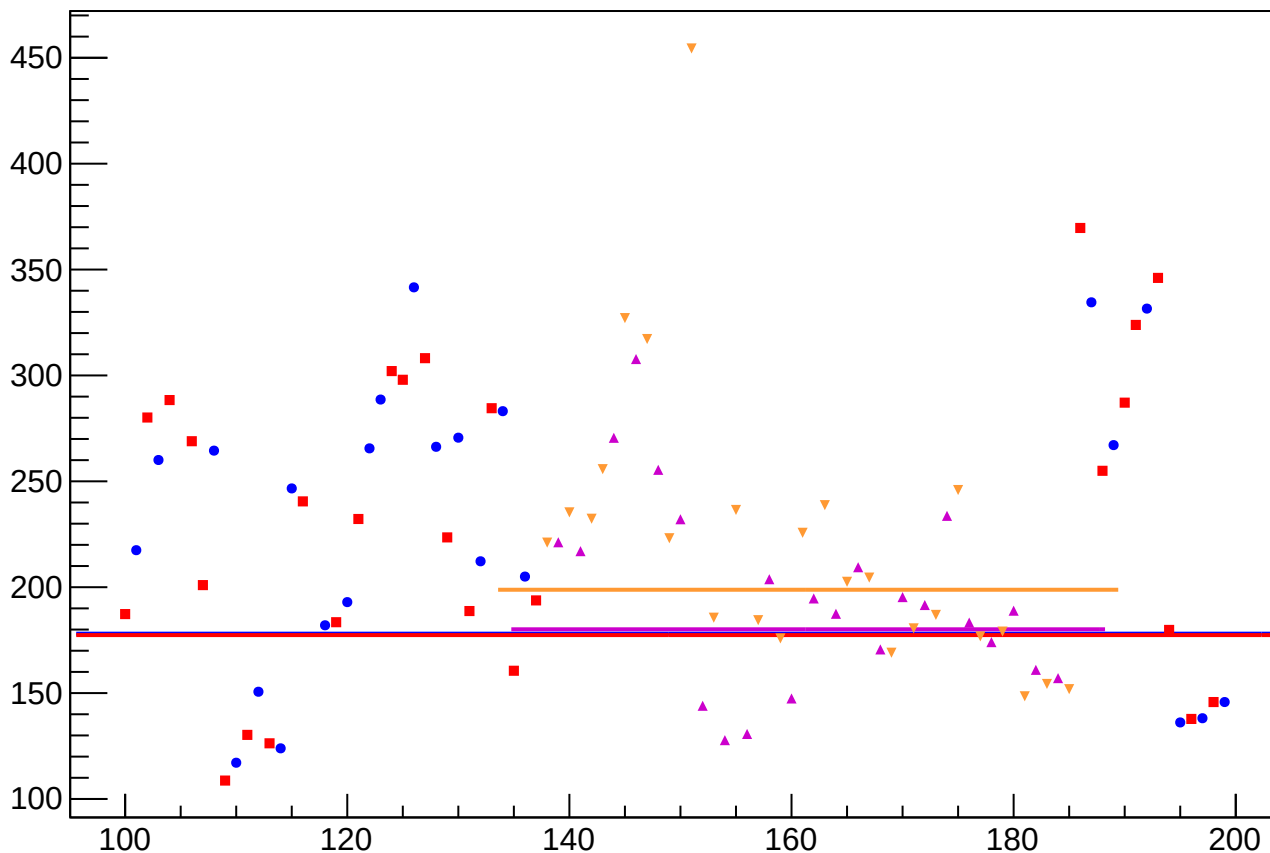
Right: -5.383 ± 40.057 $\chi^2/\text{NDF}: 22.2/49$

In: 20.015 ± 35.629 $\chi^2/\text{NDF}: 19.5/45$

Out: 1.187 ± 36.206 $\chi^2/\text{NDF}: 17.7/51$

All: 10.752 ± 25.395 $\chi^2/\text{NDF}: 37.3/97$

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: 177.392 $\pm$ 0.039 χ^2 /NDF: 2647832.4/26

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

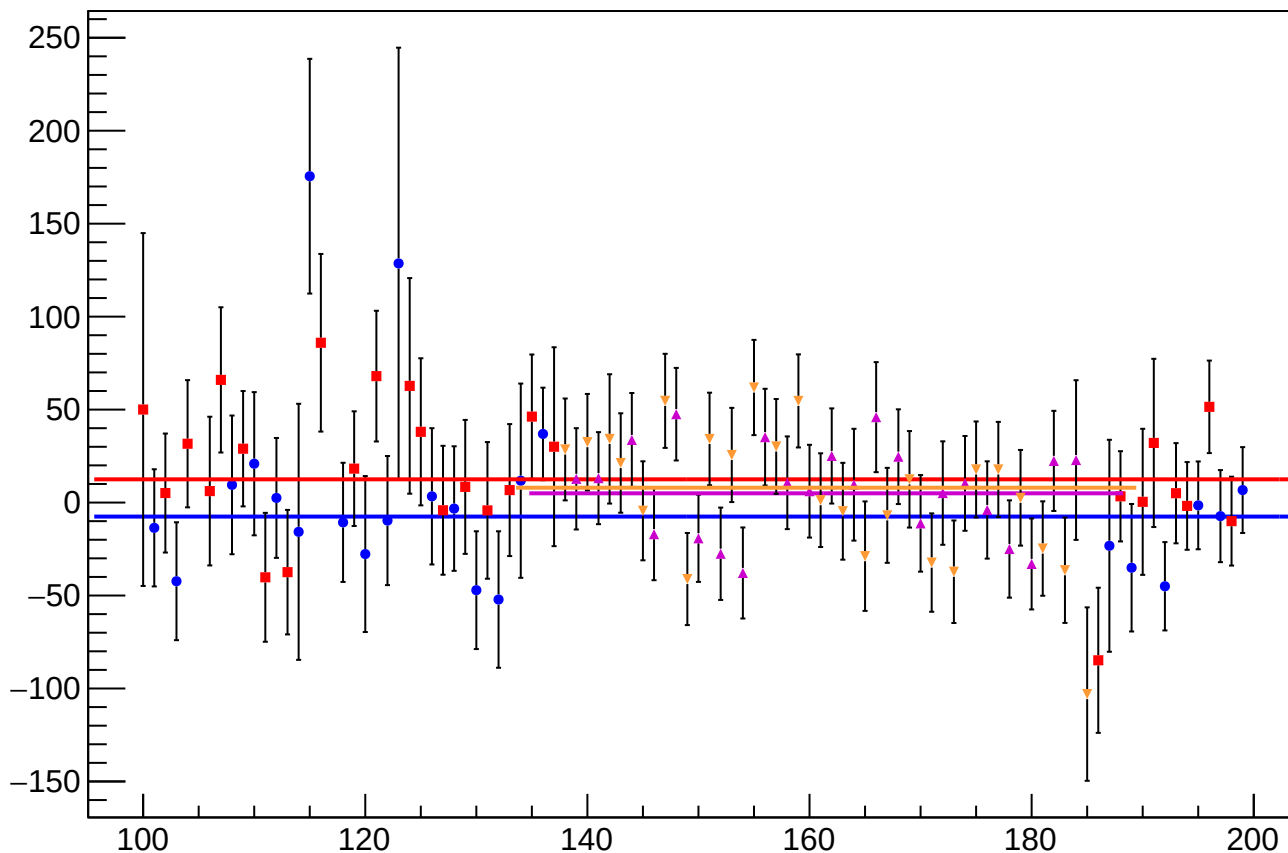
Right: 177.707 $\pm$ 0.028 χ^2 /NDF: 4646653.9/49

In: 179.350 $\pm$ 0.025 χ^2 /NDF:3594101.3/45

Out: 189.583 $\pm$ 0.026 χ^2 /NDF:4582385.2/51

All: 184.384 $\pm$ 0.018 χ^2 /NDF: 8257654.5/97

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -7.536 ± 6.925 χ^2/NDF : 22.3/22

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 12.495 ± 6.505 χ^2/NDF : 25.3/26

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

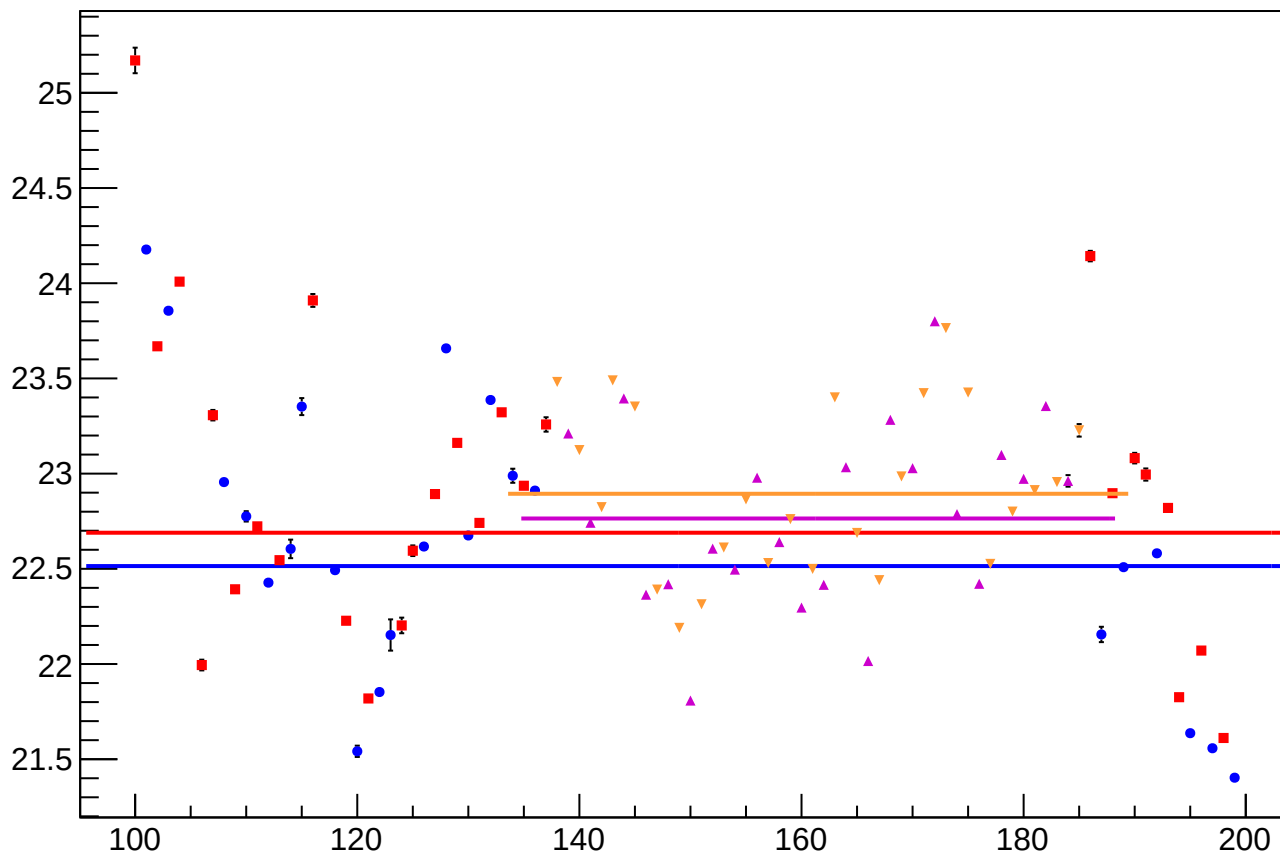
Right: 3.106 ± 4.741 χ^2/NDF : 52.0/49

In: 0.195 ± 4.280 χ^2/NDF : 44.7/45

Out: 9.798 ± 4.121 χ^2/NDF : 63.1/51

All: 5.178 ± 2.969 χ^2/NDF : 110.4/97

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: 22.690+/-0.005 χ^2/NDF : 23299.1/26

Left In: 22.764+/-0.004 χ^2/NDF :14665.7/22

Left: 22.831+/-0.003 χ^2/NDF : 28317.3/47

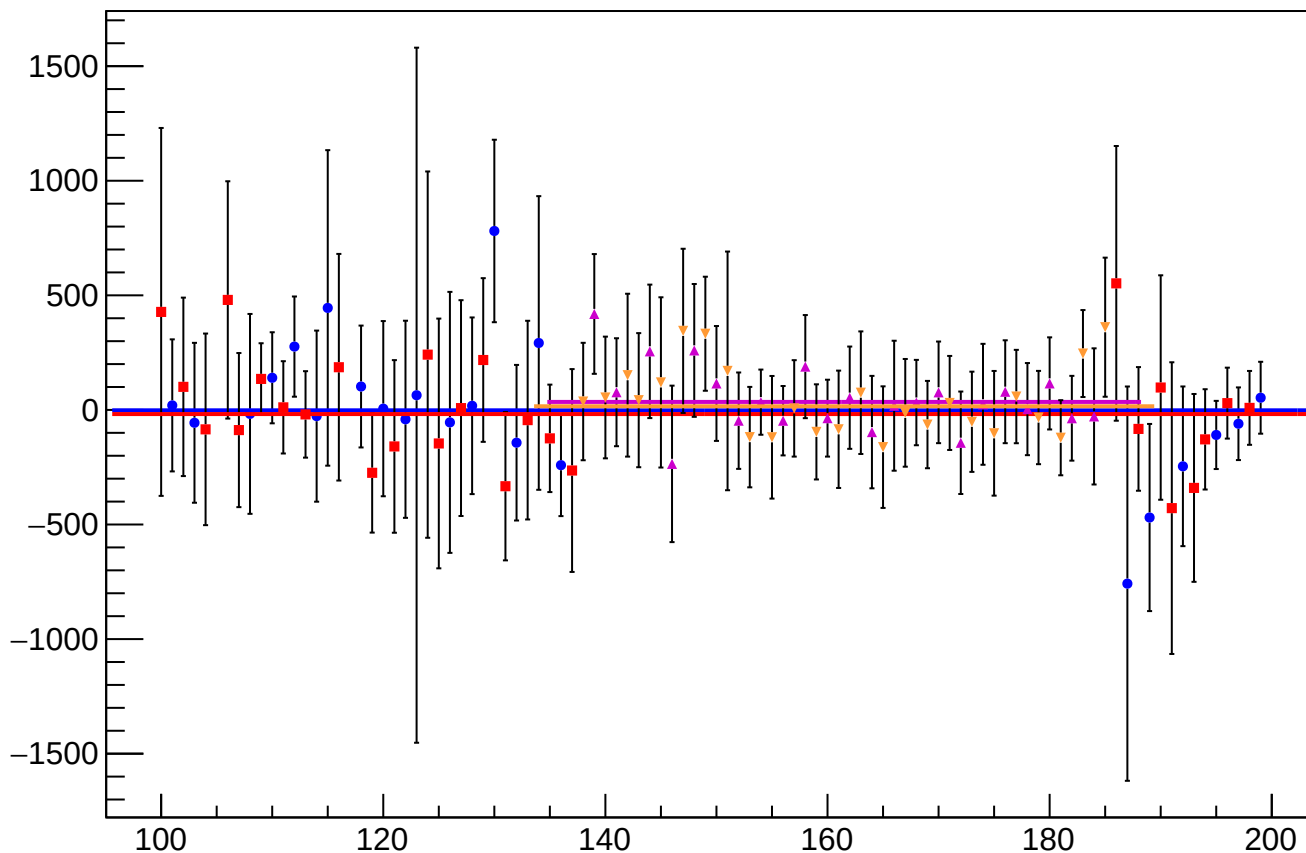
Right: 22.607+/-0.003 χ^2/NDF : 50367.9/49

In: 22.669+/-0.003 χ^2/NDF :42663.7/45

Out: 22.812+/-0.003 χ^2/NDF :37553.3/51

All: 22.743+/-0.002 χ^2/NDF : 81378.0/97

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: -18.095 ± 54.881 $\chi^2/\text{NDF}: 8.2/26$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

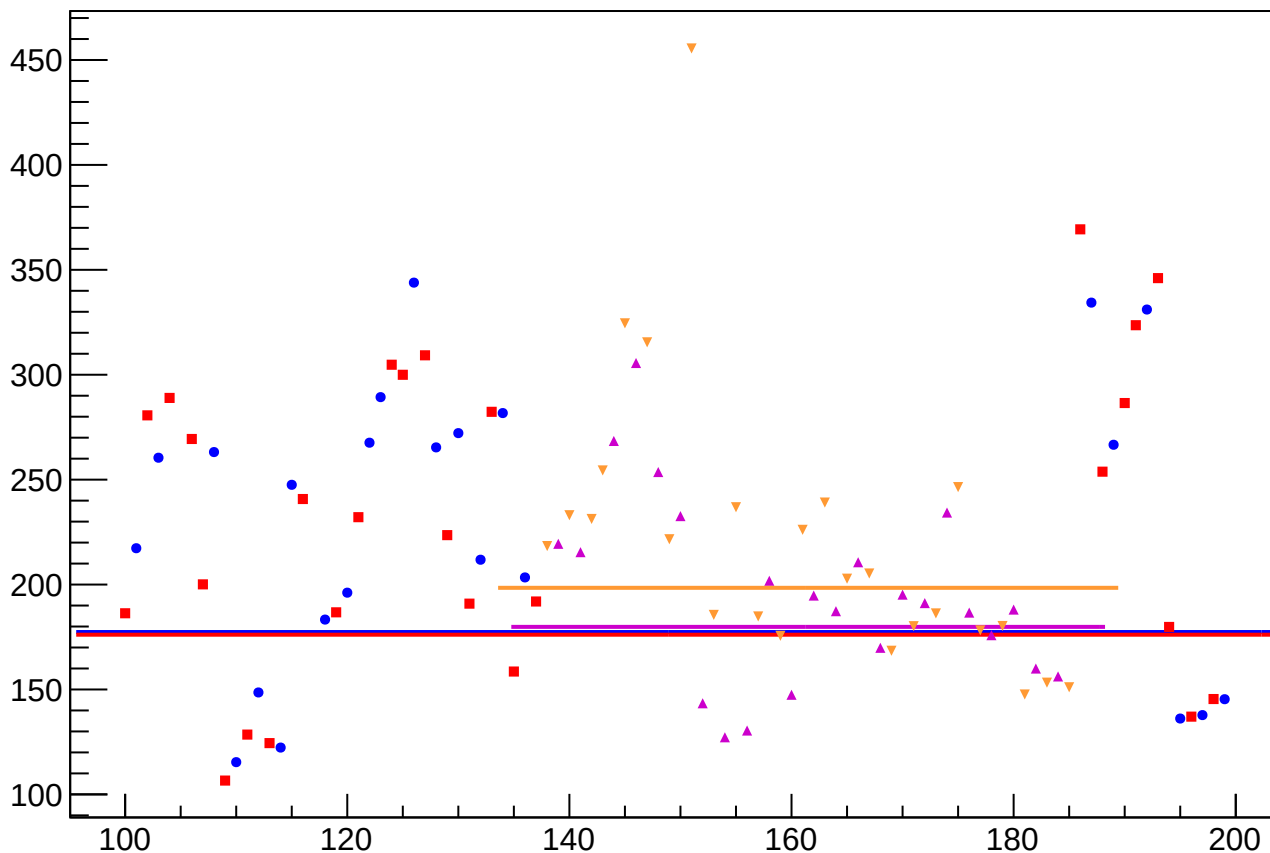
Right: -10.378 ± 39.885 $\chi^2/\text{NDF}: 19.7/49$

In: 21.174 ± 35.554 $\chi^2/\text{NDF}: 18.4/45$

Out: 1.204 ± 36.087 $\chi^2/\text{NDF}: 16.8/51$

All: 11.337 ± 25.327 $\chi^2/\text{NDF}: 35.3/97$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.377 $\pm$ 0.041 χ^2 /NDF: 2030769.4/22

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 176.106 $\pm$ 0.039 χ^2 /NDF: 2723310.1/26

Left In: 179.839 $\pm$ 0.032 χ^2 /NDF:1588834.3/22

Left: 188.558 $\pm$ 0.023 χ^2 /NDF: 3510745.5/47

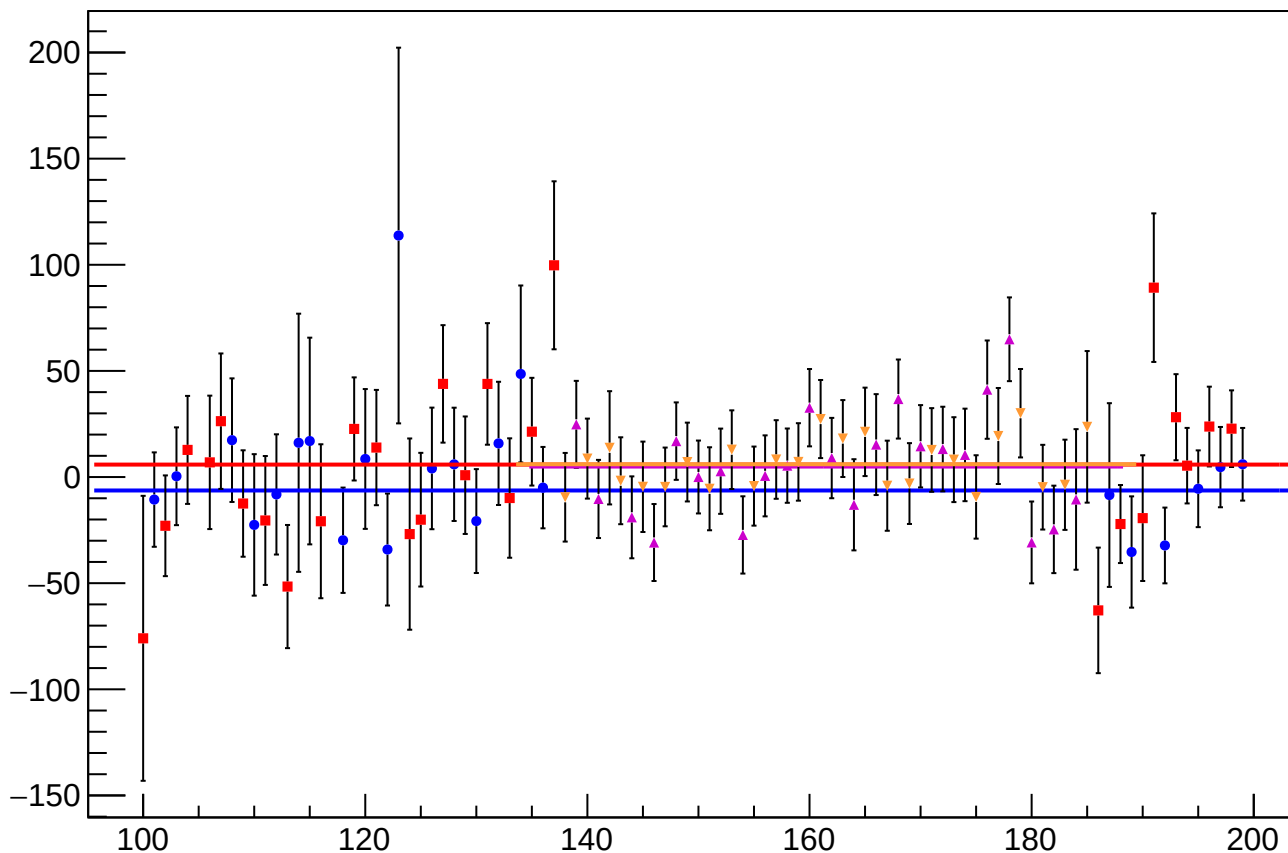
Right: 176.706 $\pm$ 0.028 χ^2 /NDF: 4754585.3/49

In: 178.916 $\pm$ 0.025 χ^2 /NDF:3621851.6/45

Out: 188.789 $\pm$ 0.026 χ^2 /NDF:4672915.3/51

All: 183.779 $\pm$ 0.018 χ^2 /NDF: 8370732.2/97

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: 5.868 $\pm$ 5.028 χ^2 /NDF: 38.1/26

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

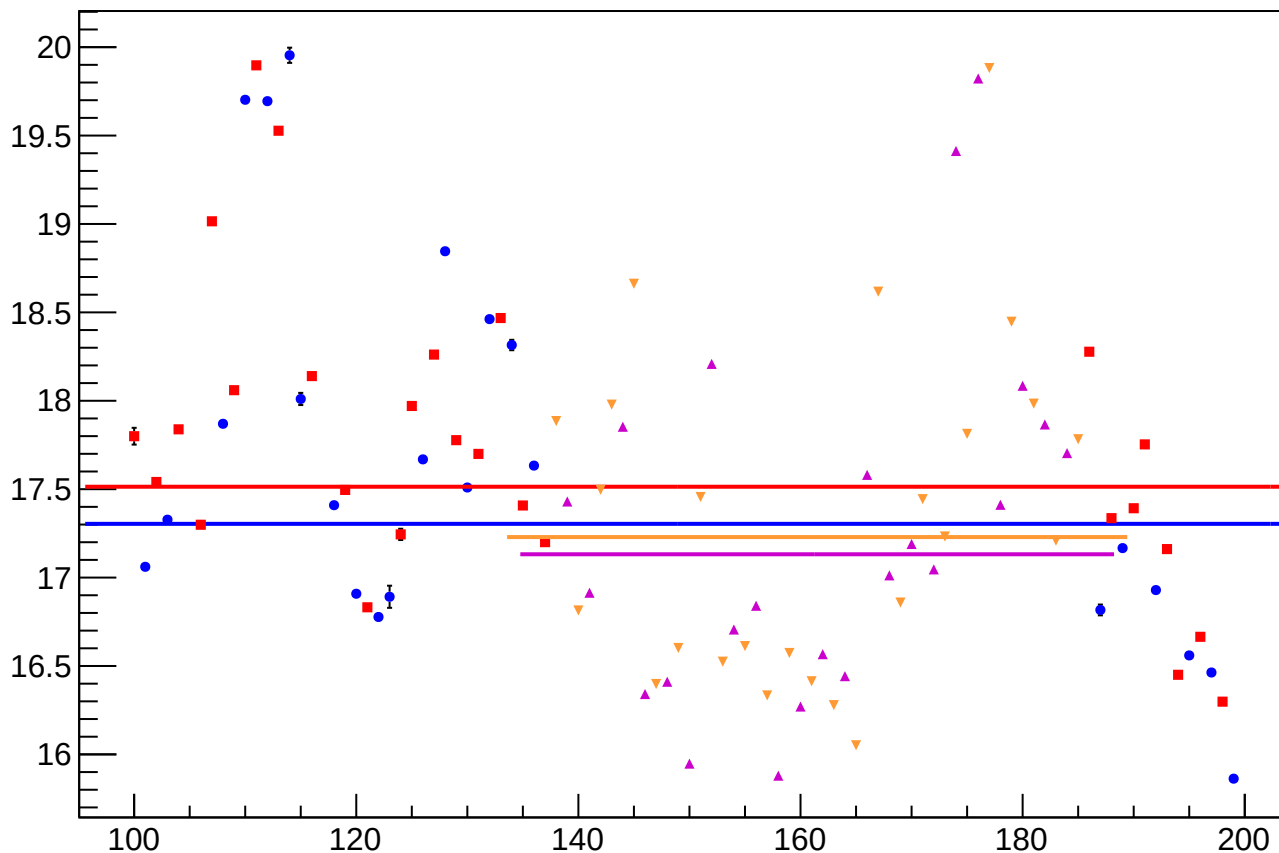
Right: 0.124 $\pm$ 3.657 χ^2 /NDF: 53.5/49

In: 0.742 $\pm$ 3.253 χ^2 /NDF: 50.3/45

Out: 5.961 $\pm$ 3.138 χ^2 /NDF: 46.2/51

All: 3.445 $\pm$ 2.259 χ^2 /NDF: 97.8/97

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.304 $\pm$ 0.004 χ^2 /NDF: 65790.7/22

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 17.514 $\pm$ 0.004 χ^2 /NDF: 56883.5/26

Left In: 17.132 $\pm$ 0.003 χ^2 /NDF:103997.3/22

Left: 17.182 $\pm$ 0.002 χ^2 /NDF: 203195.4/47

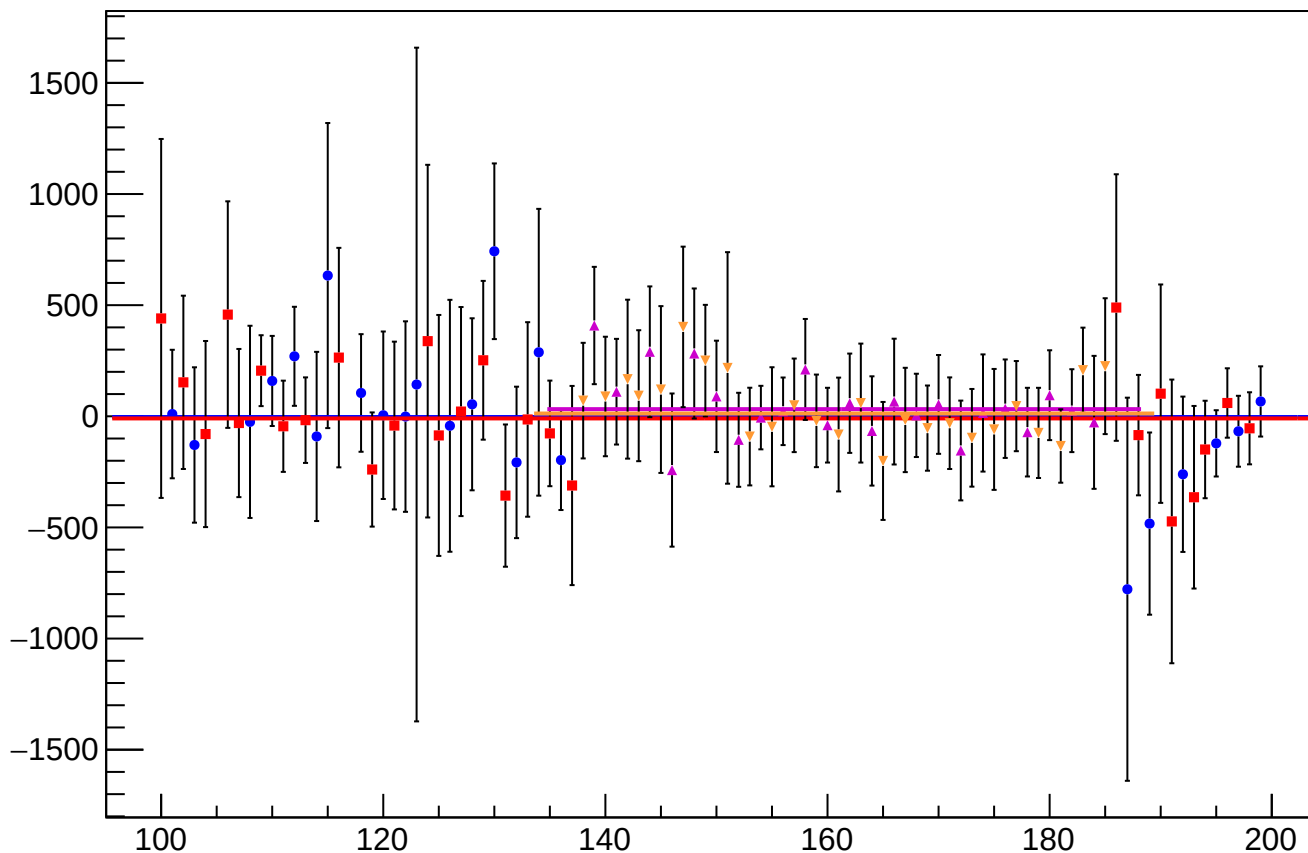
Right: 17.415 $\pm$ 0.003 χ^2 /NDF: 124316.3/49

In: 17.196 $\pm$ 0.002 χ^2 /NDF:171096.2/45

Out: 17.340 $\pm$ 0.002 χ^2 /NDF:159423.1/51

All: 17.271 $\pm$ 0.002 χ^2 /NDF: 332551.6/97

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: -9.605 ± 55.311 $\chi^2/\text{NDF}: 9.6/26$

Left In: 32.159 ± 45.131 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.940 ± 32.908 $\chi^2/\text{NDF}: 13.9/47$

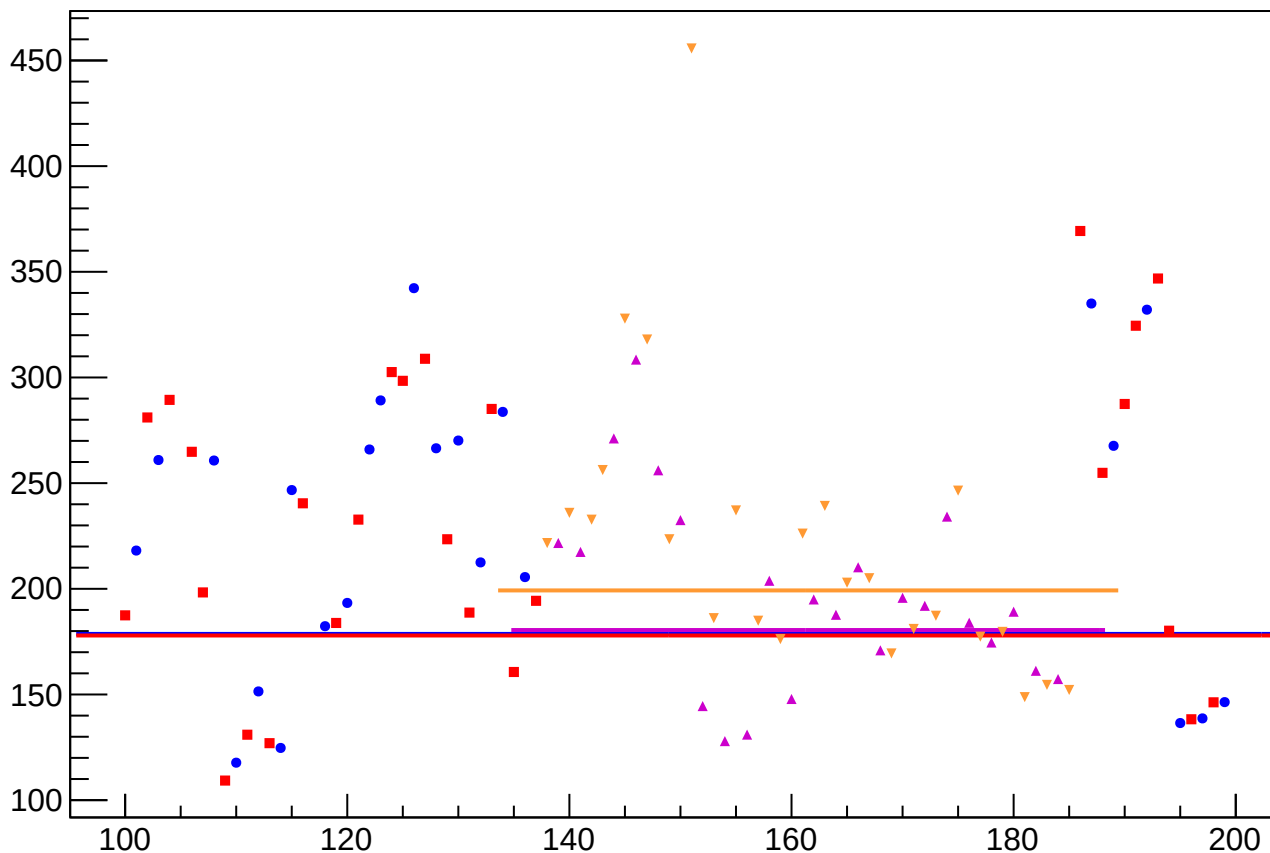
Right: -6.637 ± 40.163 $\chi^2/\text{NDF}: 21.5/49$

In: 18.894 ± 35.713 $\chi^2/\text{NDF}: 19.2/45$

Out: 2.970 ± 36.289 $\chi^2/\text{NDF}: 16.5/51$

All: 11.060 ± 25.454 $\chi^2/\text{NDF}: 35.7/97$

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: 177.915 $\pm$ 0.039 χ^2 /NDF: 2623605.3/26

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

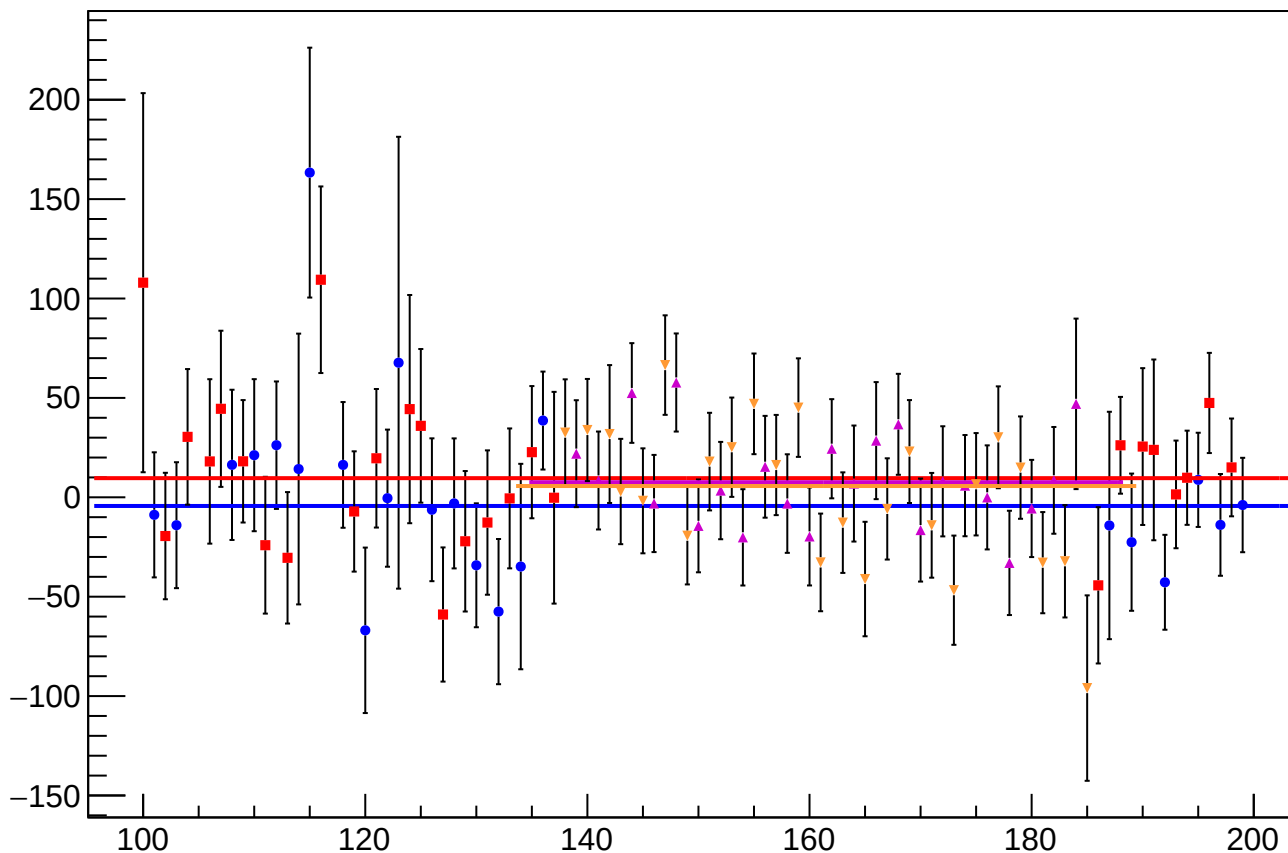
Right: 178.265 $\pm$ 0.028 χ^2 /NDF: 4604249.7/49

In: 179.807 $\pm$ 0.025 χ^2 /NDF:3575499.5/45

Out: 190.061 $\pm$ 0.026 χ^2 /NDF:4557038.6/51

All: 184.852 $\pm$ 0.018 χ^2 /NDF: 8213665.4/97

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: 9.628 ± 6.498 χ^2/NDF : 21.9/26

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

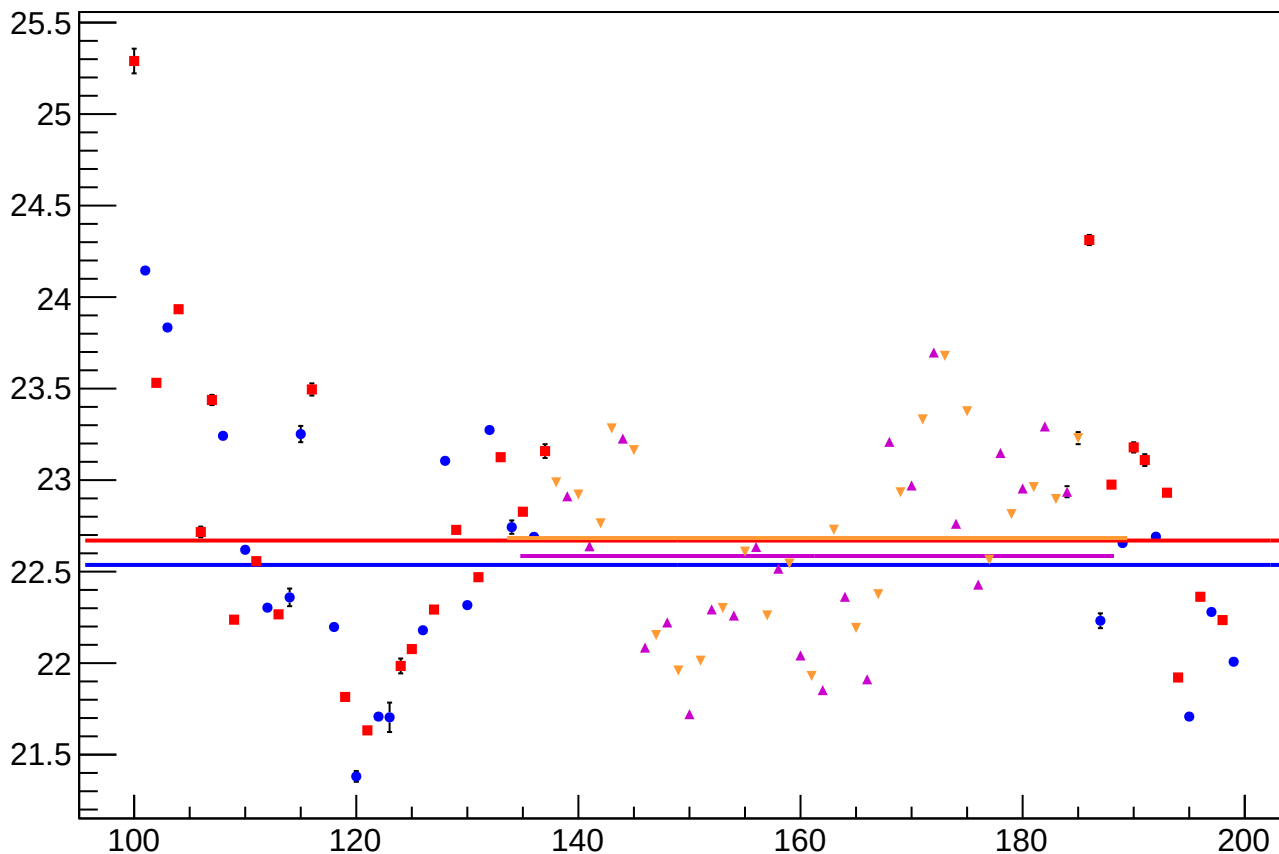
Right: 3.084 ± 4.740 χ^2/NDF : 45.9/49

In: 3.076 ± 4.260 χ^2/NDF : 42.0/45

Out: 7.245 ± 4.097 χ^2/NDF : 58.6/51

All: 5.242 ± 2.953 χ^2/NDF : 101.0/97

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.537 $\pm$ 0.005 χ^2 /NDF: 18331.1/22

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF: 16318.1/24

Right Out: 22.670 $\pm$ 0.005 χ^2 /NDF: 20239.1/26

Left In: 22.585 $\pm$ 0.004 χ^2 /NDF: 18087.5/22

Left: 22.635 $\pm$ 0.003 χ^2 /NDF: 34743.7/47

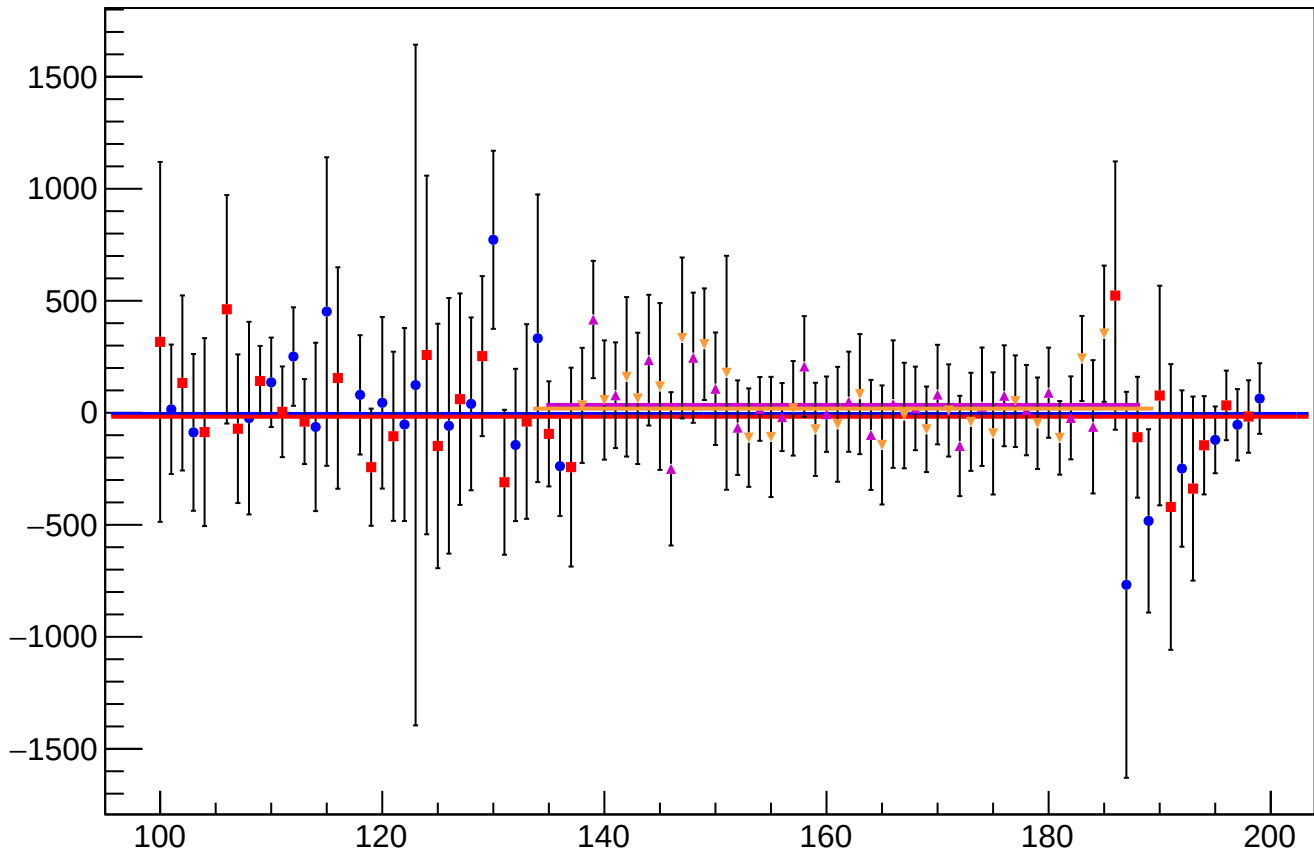
Right: 22.608 $\pm$ 0.003 χ^2 /NDF: 38963.4/49

In: 22.567 $\pm$ 0.003 χ^2 /NDF: 36479.9/45

Out: 22.678 $\pm$ 0.003 χ^2 /NDF: 36562.5/51

All: 22.625 $\pm$ 0.002 χ^2 /NDF: 73749.8/97

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: -17.576 ± 55.015 $\chi^2/\text{NDF}: 7.6/26$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

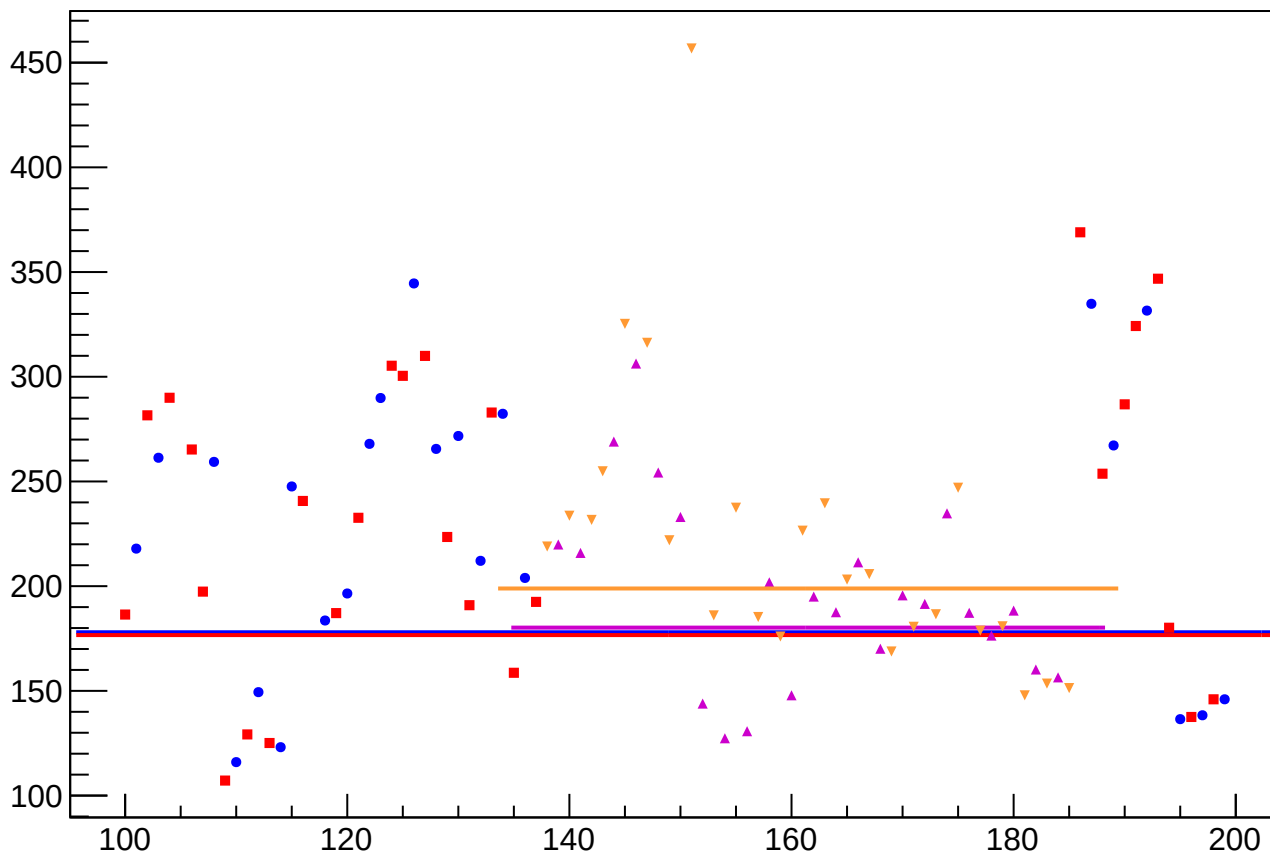
Right: -11.716 ± 39.992 $\chi^2/\text{NDF}: 19.1/49$

In: 19.992 ± 35.639 $\chi^2/\text{NDF}: 18.0/45$

Out: 2.981 ± 36.171 $\chi^2/\text{NDF}: 15.5/51$

All: 11.612 ± 25.387 $\chi^2/\text{NDF}: 33.6/97$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.983+/-0.041 χ^2/NDF : 2011927.1/22

Left Out: 198.891+/-0.034 χ^2/NDF : 1762454.6/24

Right Out: 176.641+/-0.039 χ^2/NDF : 2698059.4/26

Left In: 180.207+/-0.032 χ^2/NDF : 1589005.4/22

Left: 188.959+/-0.023 χ^2/NDF : 3512499.2/47

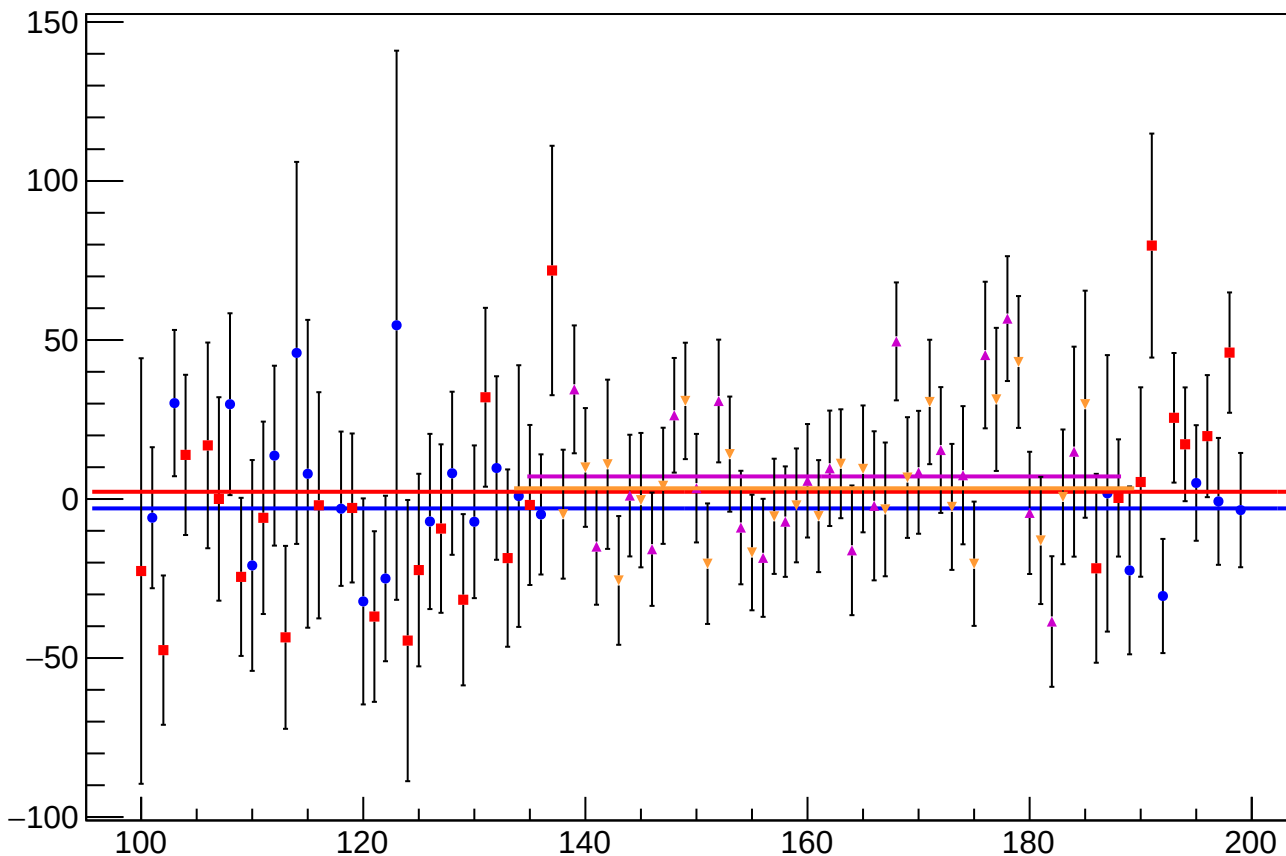
Right: 177.274+/-0.028 χ^2/NDF : 4710547.6/49

In: 179.374+/-0.025 χ^2/NDF : 3602757.7/45

Out: 189.273+/-0.026 χ^2/NDF : 4646229.5/51

All: 184.250+/-0.018 χ^2/NDF : 8324986.9/97

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.954 ± 5.334 $\chi^2/\text{NDF}: 10.3/22$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 2.276 ± 5.018 $\chi^2/\text{NDF}: 33.1/26$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

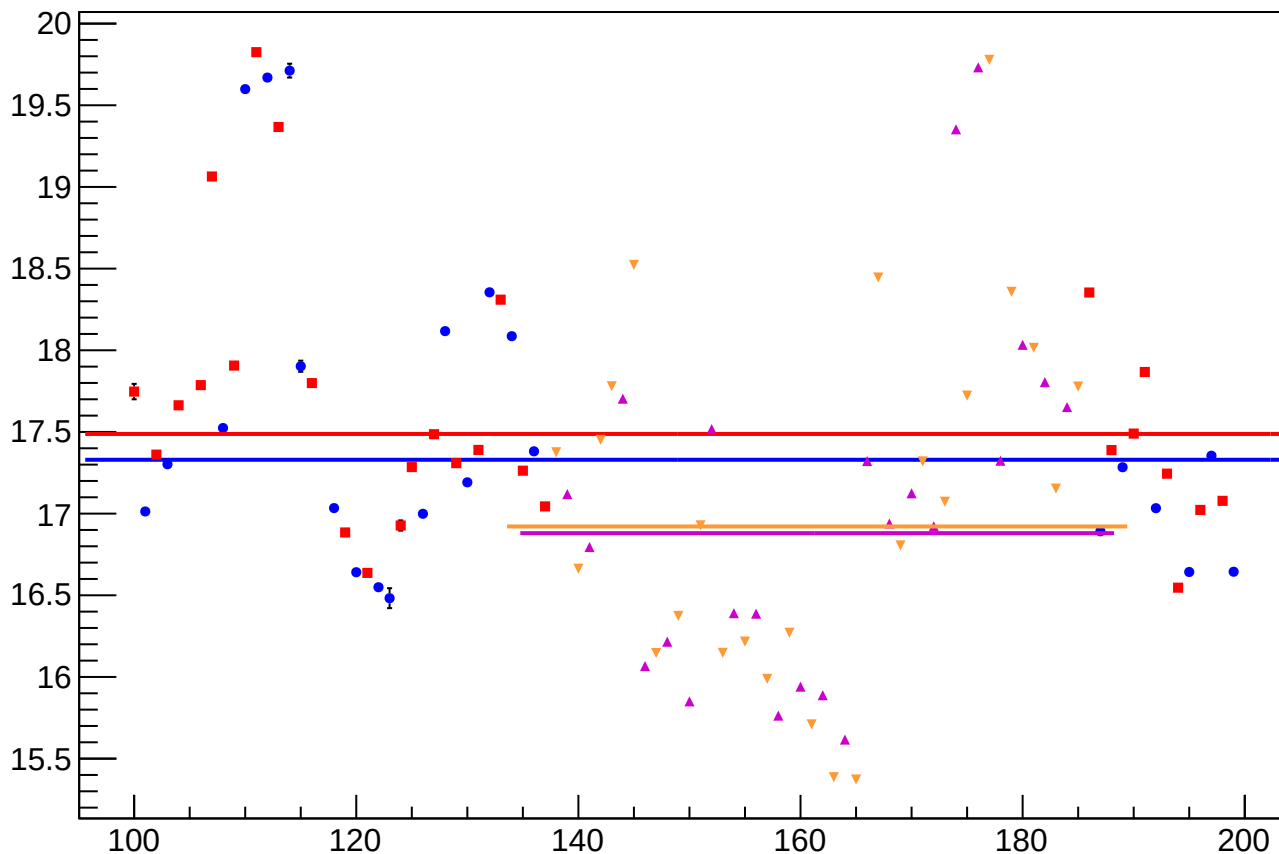
Right: -0.179 ± 3.655 $\chi^2/\text{NDF}: 43.9/49$

In: 3.426 ± 3.224 $\chi^2/\text{NDF}: 45.1/45$

Out: 2.953 ± 3.102 $\chi^2/\text{NDF}: 52.0/51$

All: 3.180 ± 2.236 $\chi^2/\text{NDF}: 97.0/97$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.330 $\pm$ 0.004 χ^2 /NDF: 42166.9/22

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.488 $\pm$ 0.004 χ^2 /NDF: 42345.9/26

Left In: 16.880 $\pm$ 0.003 χ^2 /NDF:121736.1/22

Left: 16.901 $\pm$ 0.002 χ^2 /NDF: 260831.8/47

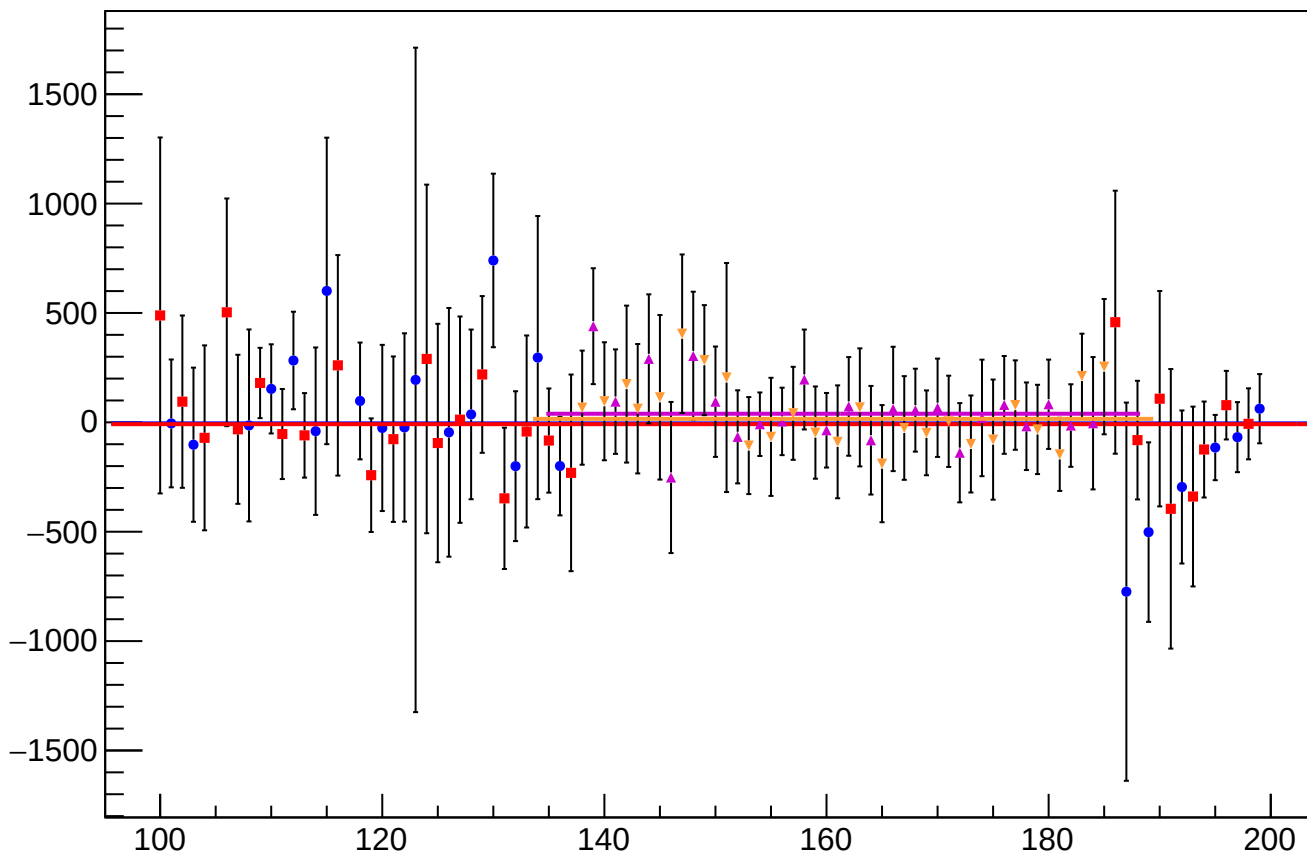
Right: 17.414 $\pm$ 0.003 χ^2 /NDF: 85444.1/49

In: 17.045 $\pm$ 0.002 χ^2 /NDF:172905.8/45

Out: 17.138 $\pm$ 0.002 χ^2 /NDF:197069.6/51

All: 17.093 $\pm$ 0.002 χ^2 /NDF: 370844.8/97

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: -8.402 ± 55.587 $\chi^2/\text{NDF}: 8.4/26$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

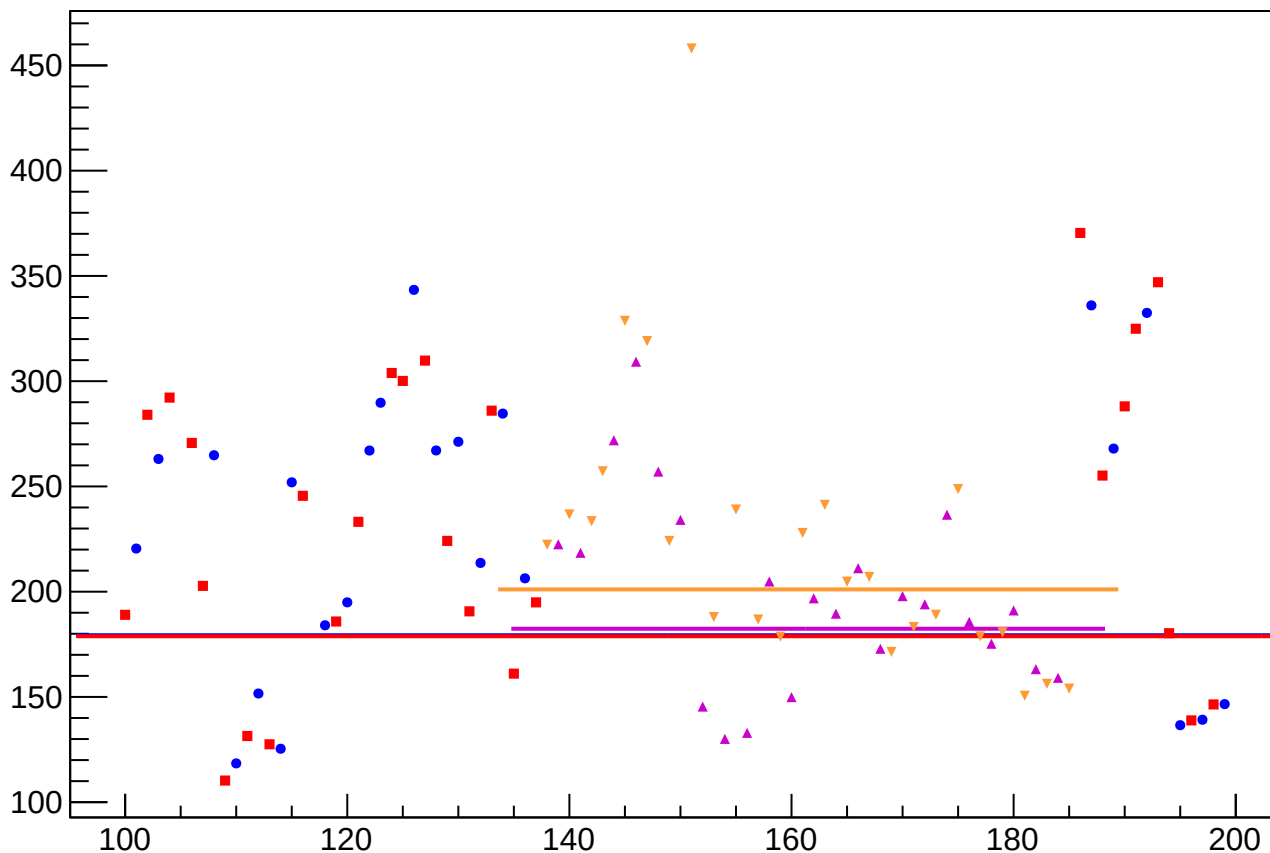
Right: -6.644 ± 40.342 $\chi^2/\text{NDF}: 20.3/49$

In: 22.785 ± 35.983 $\chi^2/\text{NDF}: 19.2/45$

Out: 5.435 ± 36.546 $\chi^2/\text{NDF}: 15.9/51$

All: 14.245 ± 25.641 $\chi^2/\text{NDF}: 35.1/97$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 179.309+/-0.041 χ^2/NDF : 1992702.7/22

Left Out: 201.091+/-0.034 χ^2/NDF :1731069.1/24

Right Out: 178.829+/-0.039 χ^2/NDF : 2627275.2/26

Left In: 182.396+/-0.032 χ^2/NDF :1548907.7/22

Left: 191.161+/-0.023 χ^2/NDF : 3437793.2/47

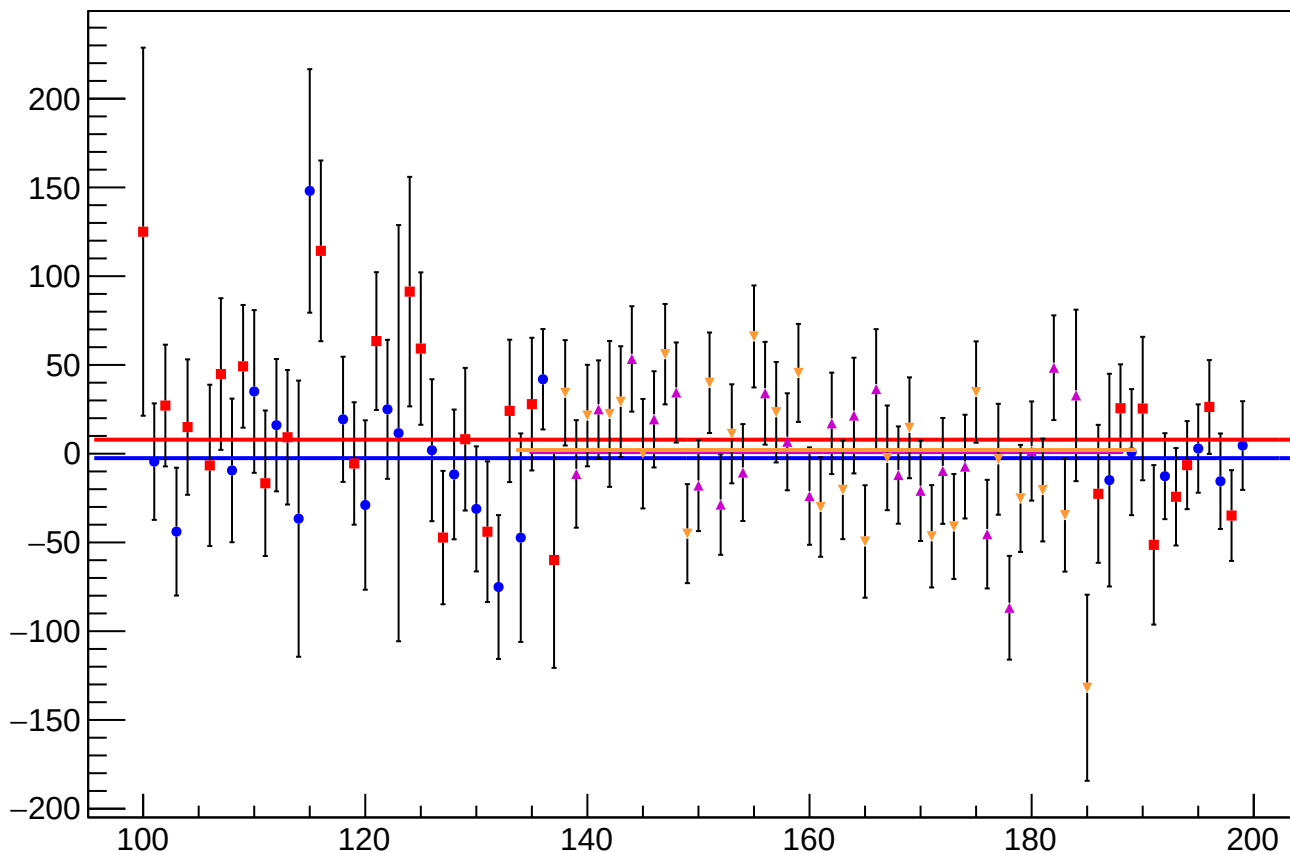
Right: 179.056+/-0.029 χ^2/NDF : 4620048.6/49

In: 181.234+/-0.025 χ^2/NDF :3545065.2/45

Out: 191.468+/-0.026 χ^2/NDF :4540465.4/51

All: 186.271+/-0.018 χ^2/NDF : 8165169.7/97

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: 7.899 ± 7.009 χ^2/NDF : 27.5/26

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

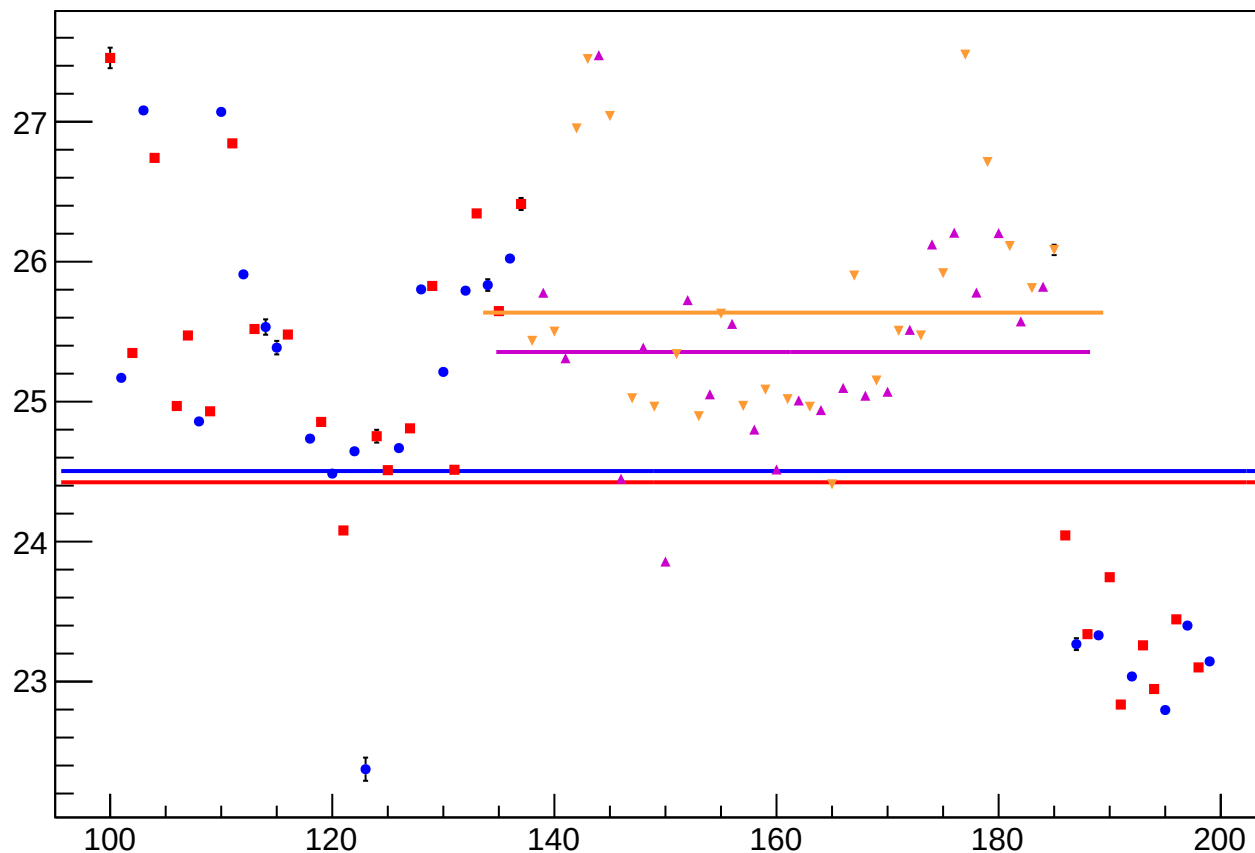
Right: 3.075 ± 5.135 χ^2/NDF : 44.6/49

In: -0.442 ± 4.729 χ^2/NDF : 43.3/45

Out: 4.512 ± 4.545 χ^2/NDF : 67.4/51

All: 2.133 ± 3.277 χ^2/NDF : 111.2/97

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: 24.424 $\pm$ 0.005 χ^2 /NDF: 59939.0/26

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

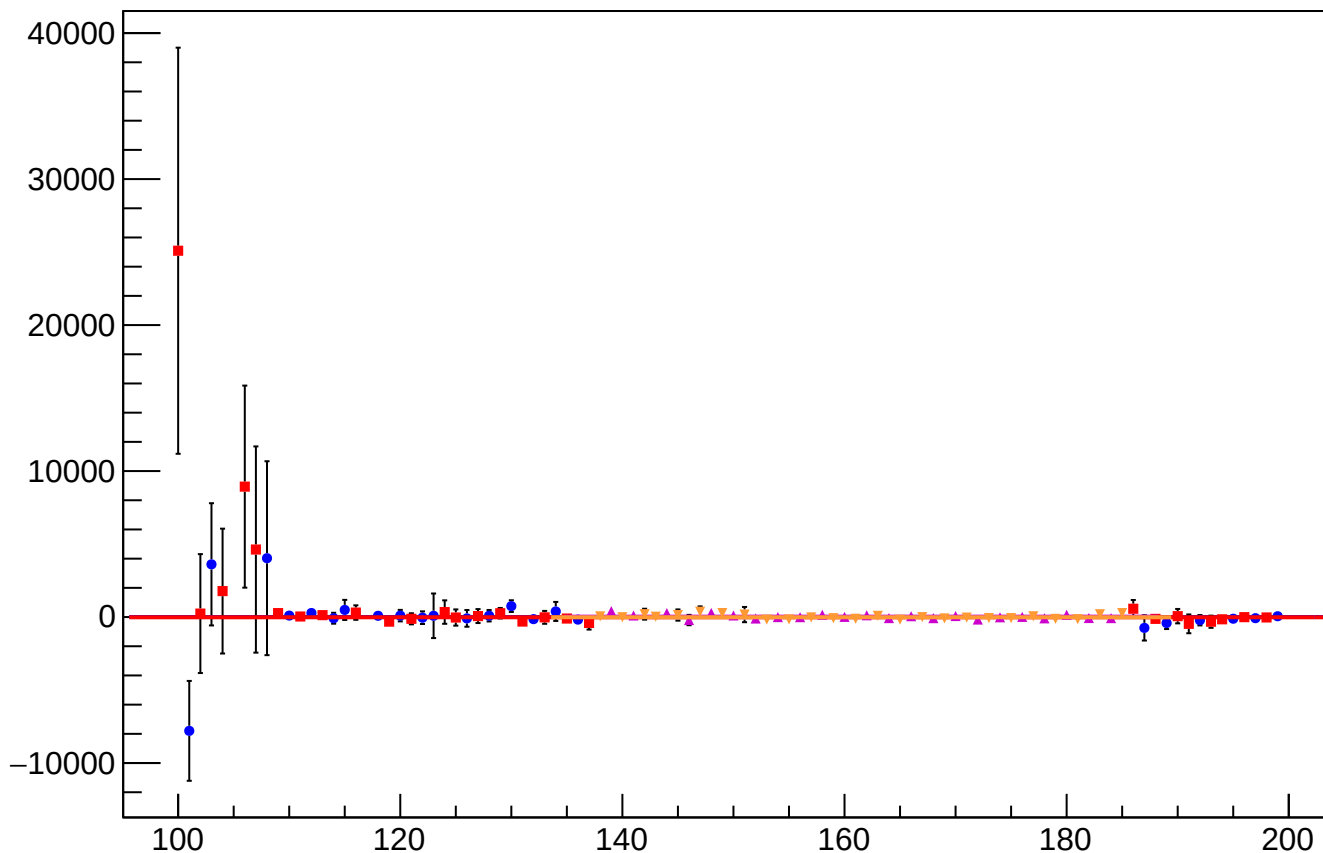
Right: 24.461 $\pm$ 0.004 χ^2 /NDF: 123132.2/49

In: 25.021 $\pm$ 0.003 χ^2 /NDF: 108268.7/45

Out: 25.126 $\pm$ 0.003 χ^2 /NDF: 129743.5/51

All: 25.076 $\pm$ 0.002 χ^2 /NDF: 238532.3/97

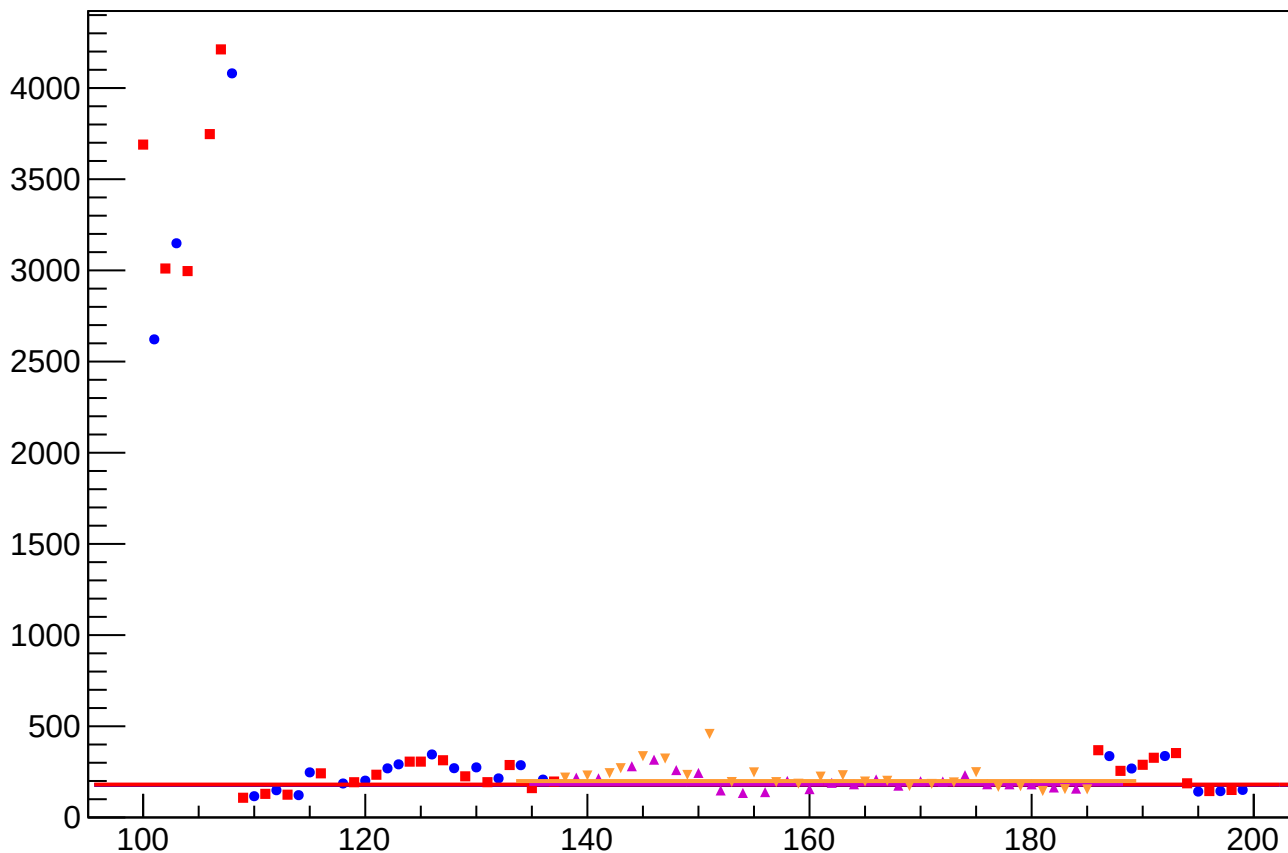
asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



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: -14.915+/-60.434 χ^2/NDF : 14.7/26
 Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47
 Right: -6.529+/-43.371 χ^2/NDF : 31.3/49
 In: 18.233+/-36.937 χ^2/NDF : 24.1/45
 Out: -13.635+/-37.690 χ^2/NDF : 22.6/51
 All: 2.621+/-26.381 χ^2/NDF : 47.1/97

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 178.039 $\pm$ 0.044 χ^2 /NDF: 4435520.5/22

Left Out: 199.536 $\pm$ 0.034 χ^2 /NDF:1880548.8/24

Right Out: 180.248 $\pm$ 0.043 χ^2 /NDF: 5270190.0/26

Left In: 184.031 $\pm$ 0.032 χ^2 /NDF:1423454.3/22

Left: 191.398 $\pm$ 0.024 χ^2 /NDF: 3412539.0/47

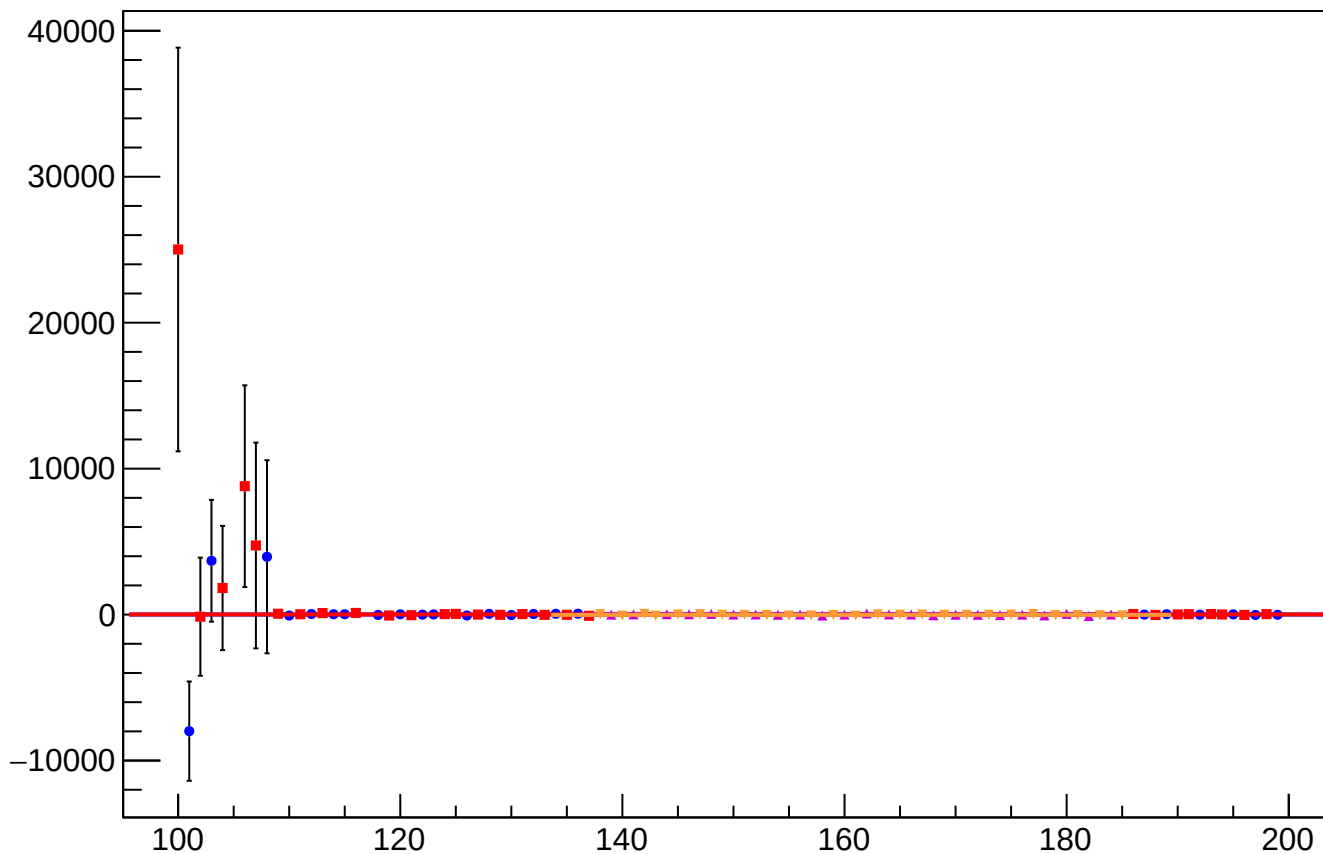
Right: 179.176 $\pm$ 0.031 χ^2 /NDF: 9707006.3/49

In: 181.924 $\pm$ 0.026 χ^2 /NDF:5870979.7/45

Out: 192.033 $\pm$ 0.027 χ^2 /NDF:7275223.3/51

All: 186.876 $\pm$ 0.019 χ^2 /NDF: 13219605.5/97

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.112 ± 9.189 $\chi^2/\text{NDF}: 20.9/22$

Left Out: -17.580 ± 6.694 $\chi^2/\text{NDF}: 22.3/24$

Right Out: 10.854 ± 8.721 $\chi^2/\text{NDF}: 28.6/26$

Left In: 1.038 ± 6.880 $\chi^2/\text{NDF}: 32.4/22$

Left: -8.527 ± 4.798 $\chi^2/\text{NDF}: 58.5/47$

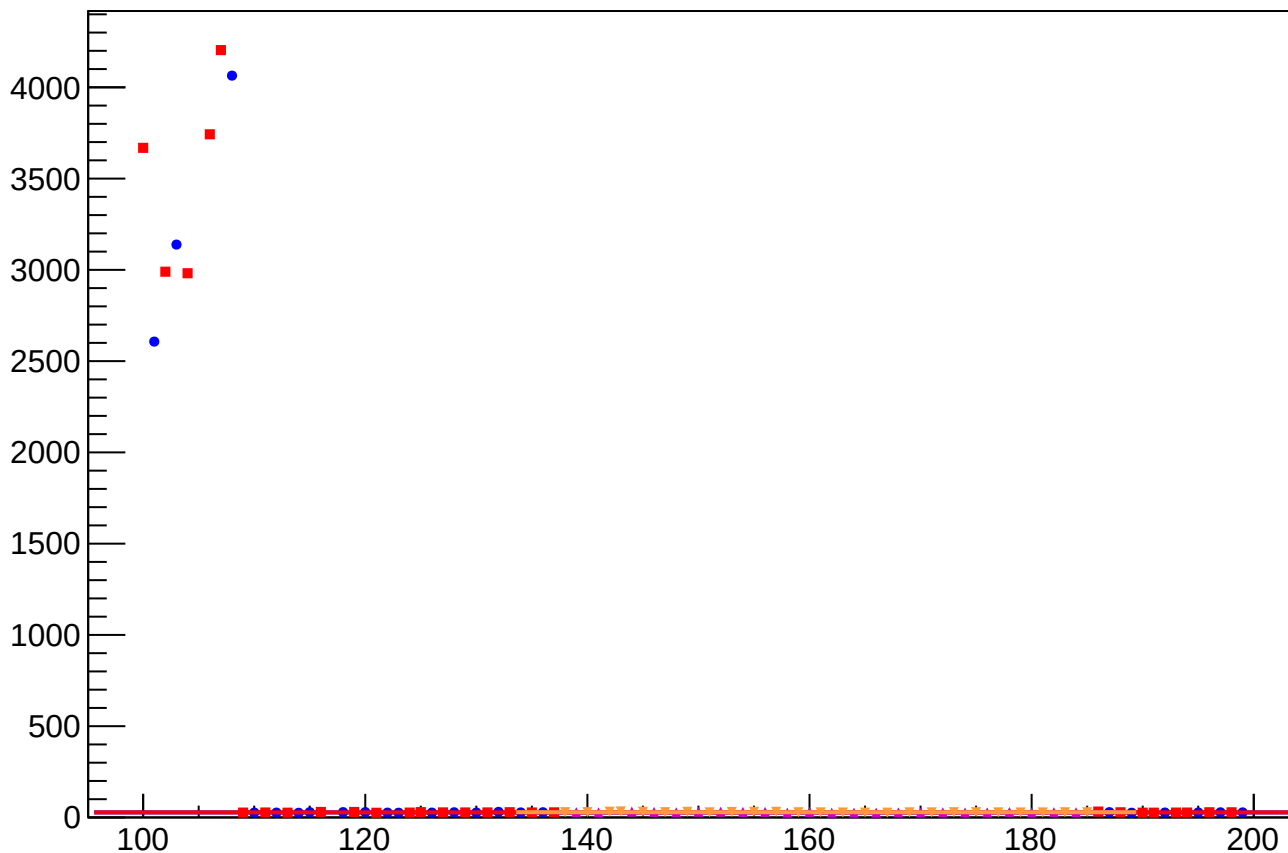
Right: 8.133 ± 6.326 $\chi^2/\text{NDF}: 49.6/49$

In: 2.501 ± 5.508 $\chi^2/\text{NDF}: 53.4/45$

Out: -7.040 ± 5.310 $\chi^2/\text{NDF}: 57.6/51$

All: -2.443 ± 3.823 $\chi^2/\text{NDF}: 112.5/97$

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: 27.741 $\pm$ 0.006 χ^2 /NDF: 3500693.8/26

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

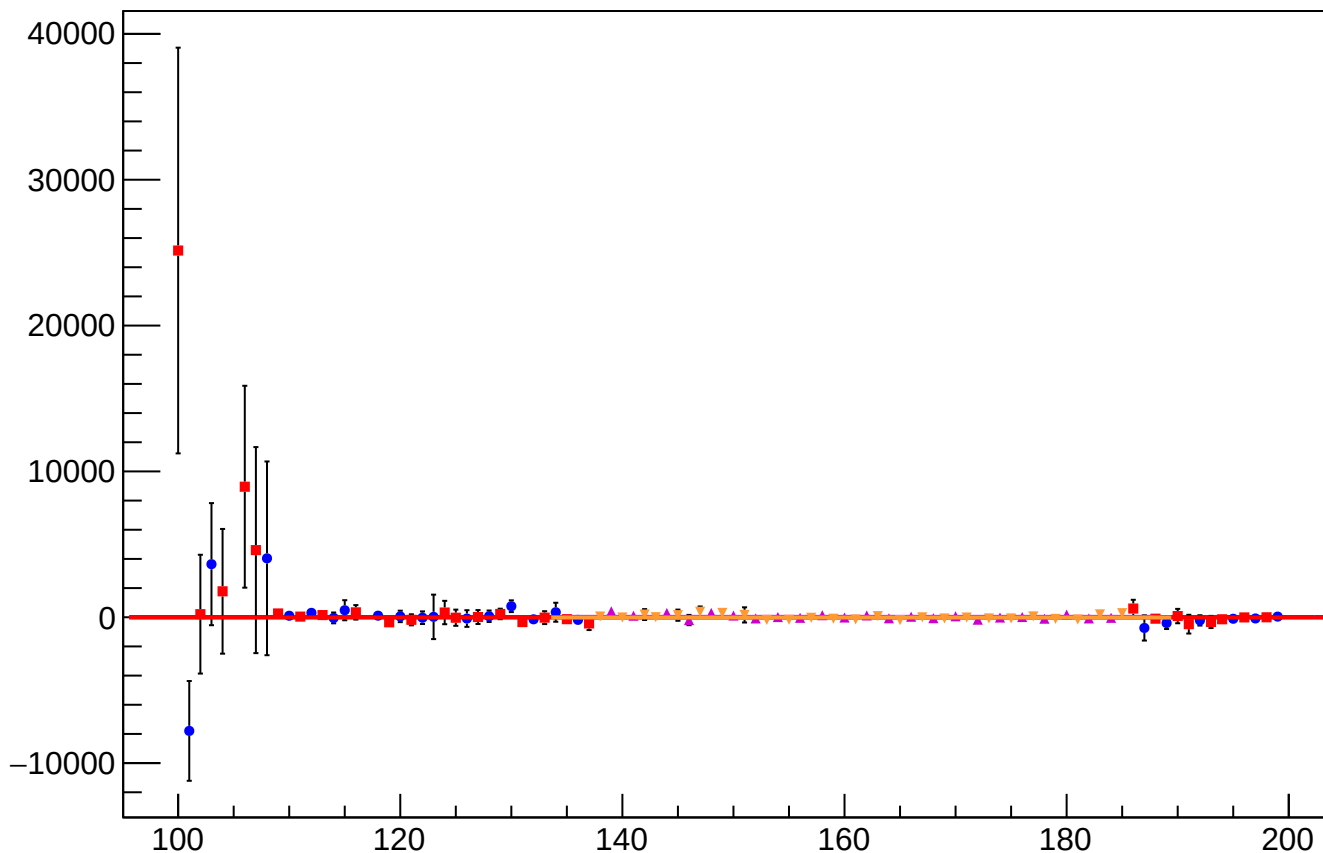
Right: 27.699 $\pm$ 0.004 χ^2 /NDF: 6535540.2/49

In: 28.306 $\pm$ 0.004 χ^2 /NDF: 3175286.7/45

Out: 28.339 $\pm$ 0.004 χ^2 /NDF: 3626092.8/51

All: 28.323 $\pm$ 0.003 χ^2 /NDF: 6801415.5/97

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: -14.640+/-60.259 χ^2/NDF : 15.4/26

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

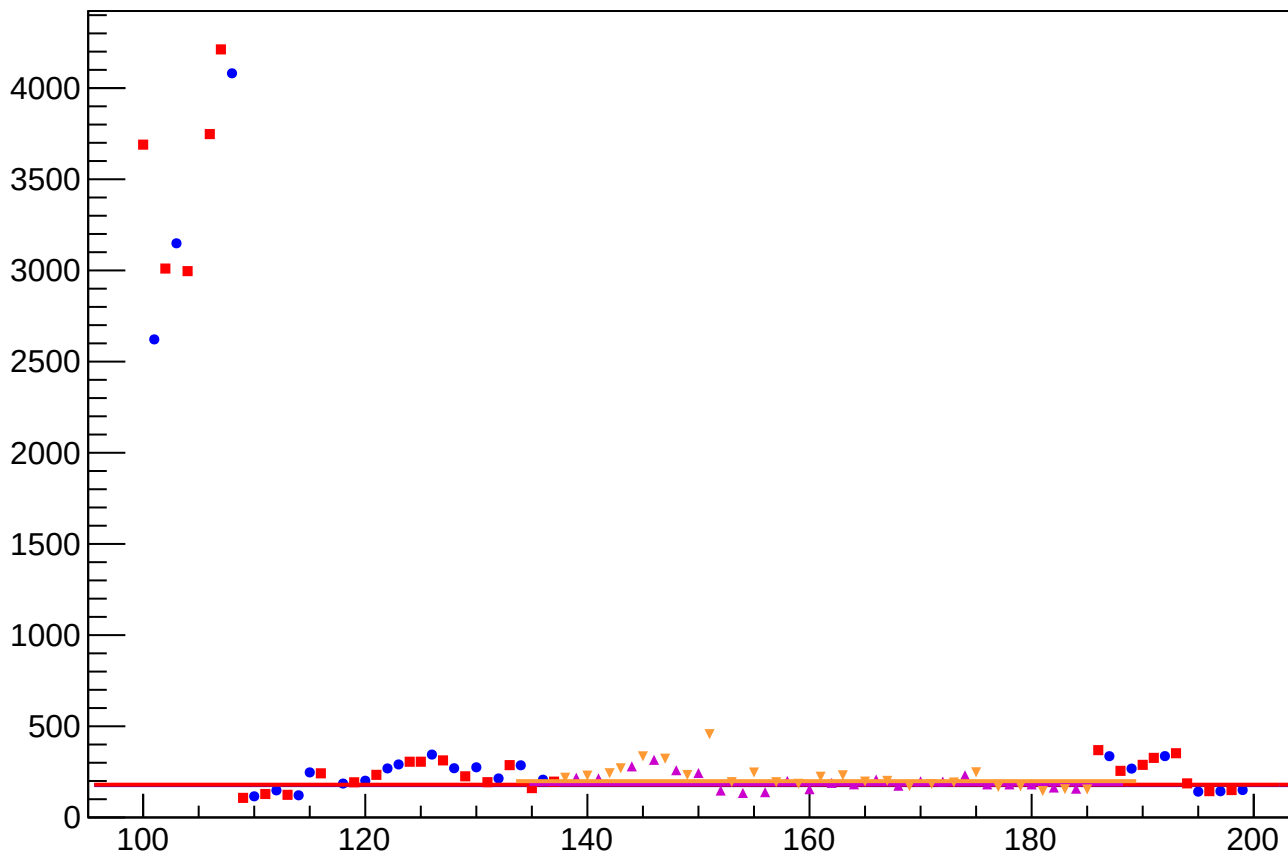
Right: -5.081+/-43.240 χ^2/NDF : 32.1/49

In: 19.280+/-36.848 χ^2/NDF : 24.5/45

Out: -15.154+/-37.597 χ^2/NDF : 24.1/51

All: 2.409+/-26.316 χ^2/NDF : 49.1/97

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: 179.639 $\pm$ 0.043 χ^2 /NDF: 5288295.4/26

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

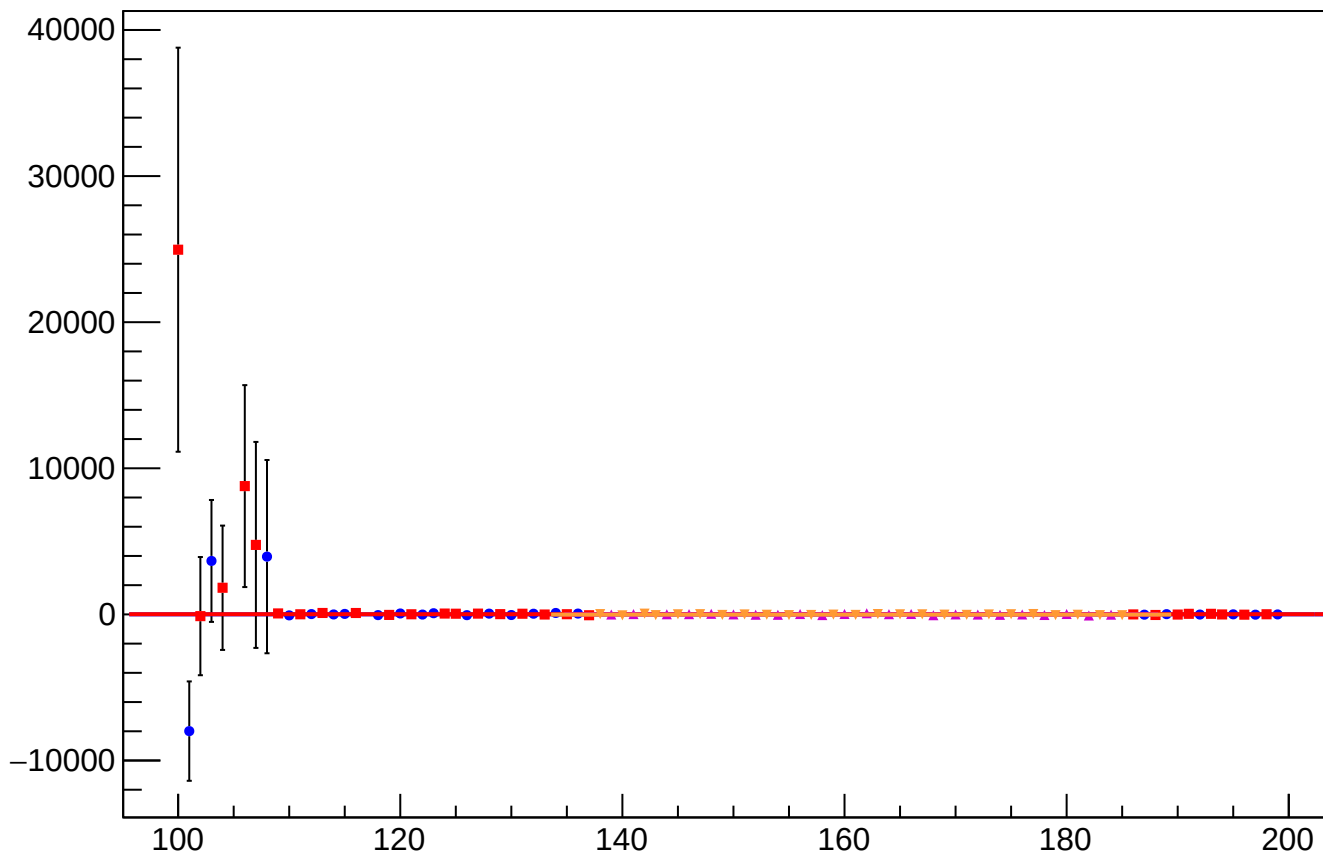
Right: 178.558 $\pm$ 0.031 χ^2 /NDF: 9738752.7/49

In: 181.463 $\pm$ 0.026 χ^2 /NDF:5885185.4/45

Out: 191.520 $\pm$ 0.027 χ^2 /NDF:7295960.9/51

All: 186.391 $\pm$ 0.019 χ^2 /NDF: 13254146.6/97

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: 13.417+/-8.735 χ^2/NDF : 23.8/26

Left In: -0.702+/-6.909 χ^2/NDF :26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

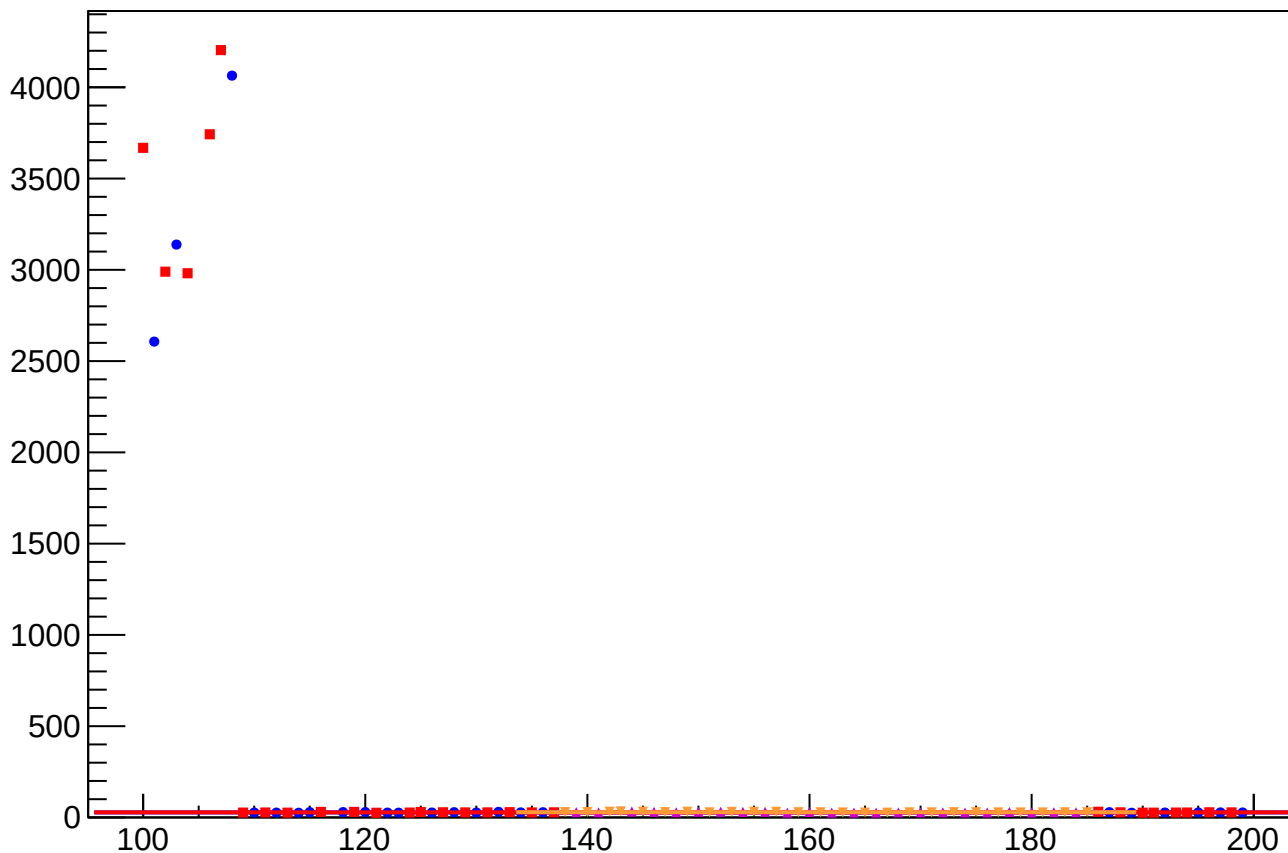
Right: 8.234+/-6.332 χ^2/NDF : 48.5/49

In: 0.452+/-5.523 χ^2/NDF :50.4/45

Out: -4.432+/-5.328 χ^2/NDF :47.9/51

All: -2.078+/-3.835 χ^2/NDF : 98.7/97

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: 27.786 $\pm$ 0.006 χ^2 /NDF: 3497755.4/26

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

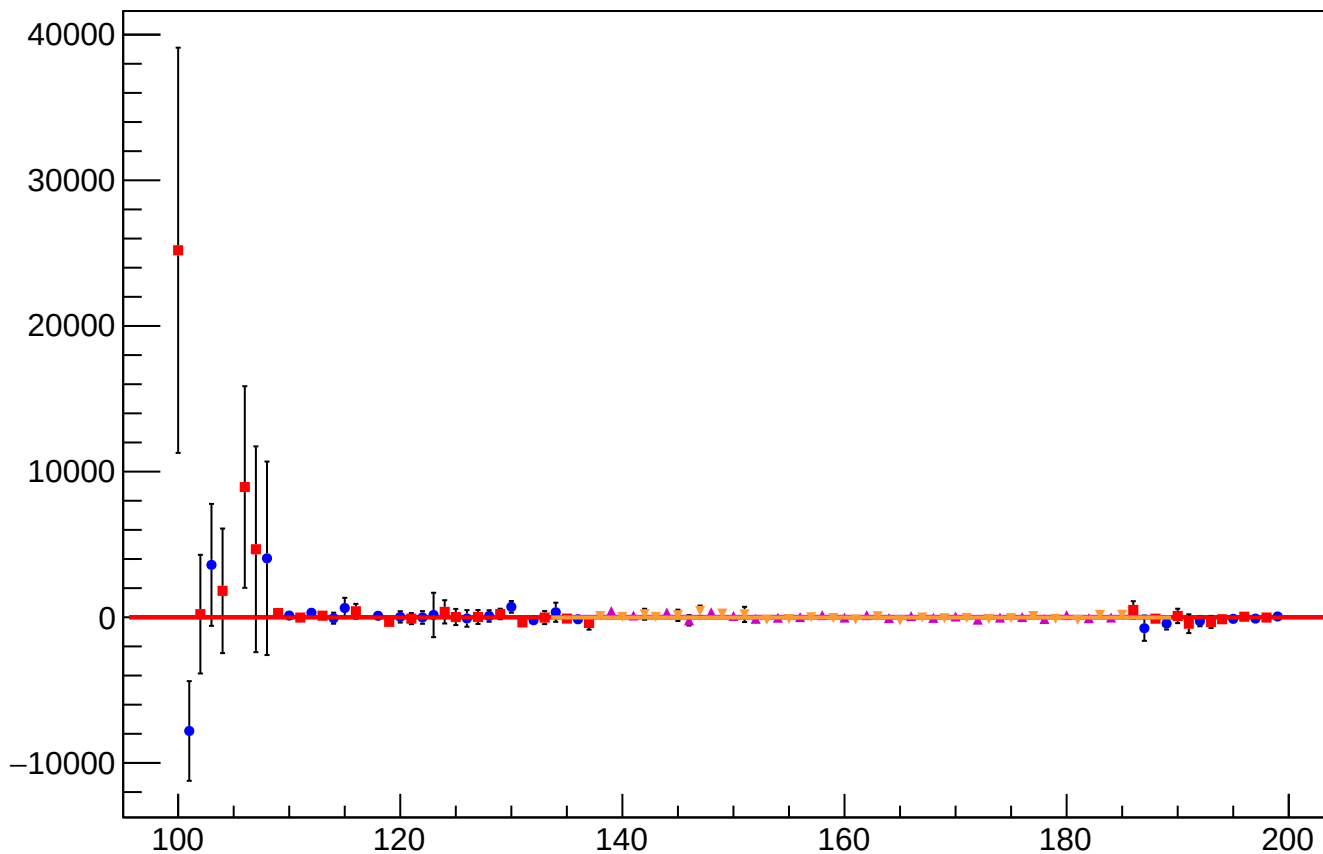
Right: 27.727 $\pm$ 0.004 χ^2 /NDF: 6535022.1/49

In: 28.384 $\pm$ 0.004 χ^2 /NDF: 3185831.7/45

Out: 28.431 $\pm$ 0.004 χ^2 /NDF: 3637069.2/51

All: 28.408 $\pm$ 0.003 χ^2 /NDF: 6822975.6/97

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: -11.181+/-60.834 χ^2/NDF : 14.6/26

Left In: 31.170+/-46.359 χ^2/NDF : 8.2/22

Left: 8.955+/-33.574 χ^2/NDF : 16.6/47

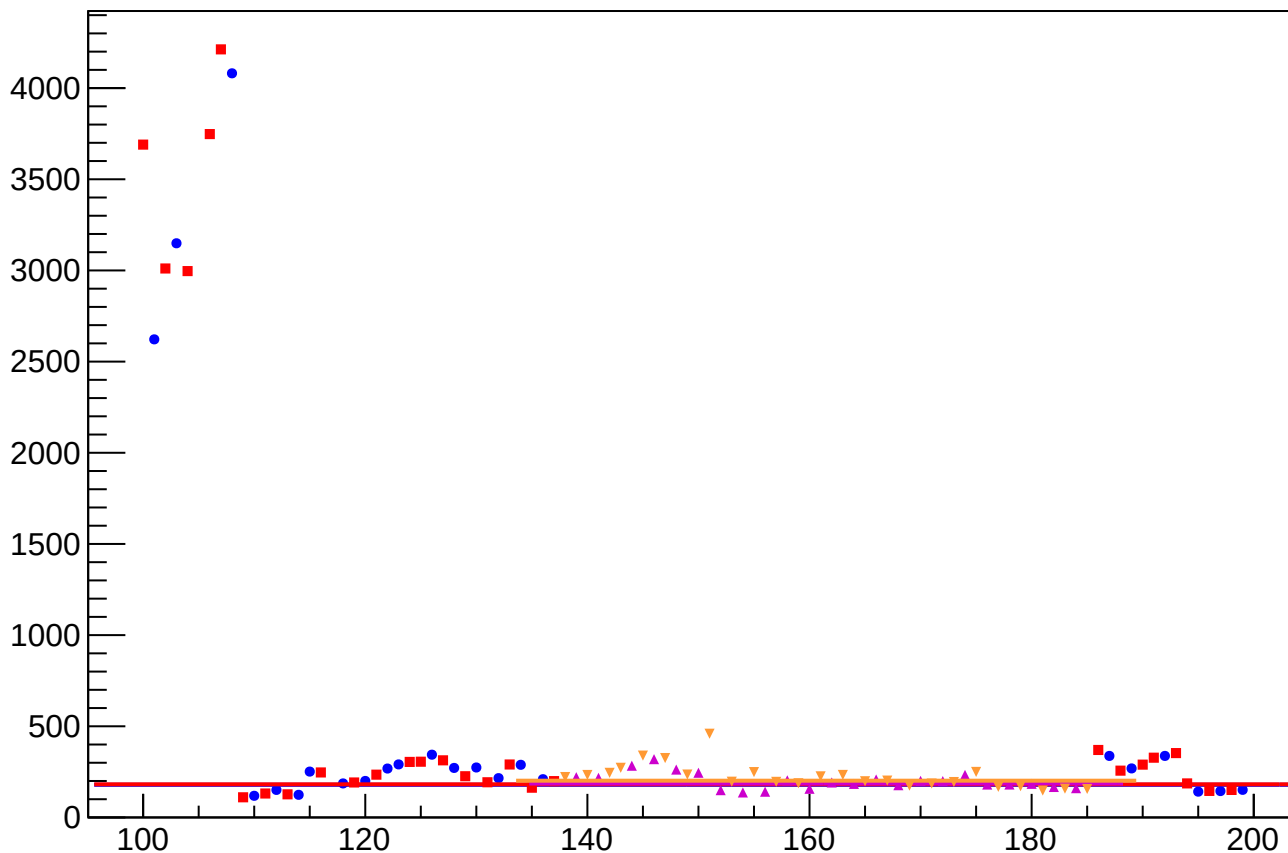
Right: -3.725+/-43.621 χ^2/NDF : 31.8/49

In: 21.602+/-37.252 χ^2/NDF : 25.4/45

Out: -13.843+/-38.013 χ^2/NDF : 22.6/51

All: 4.238+/-26.606 χ^2/NDF : 48.5/97

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: 181.726 $\pm$ 0.043 χ^2 /NDF: 5219444.7/26

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

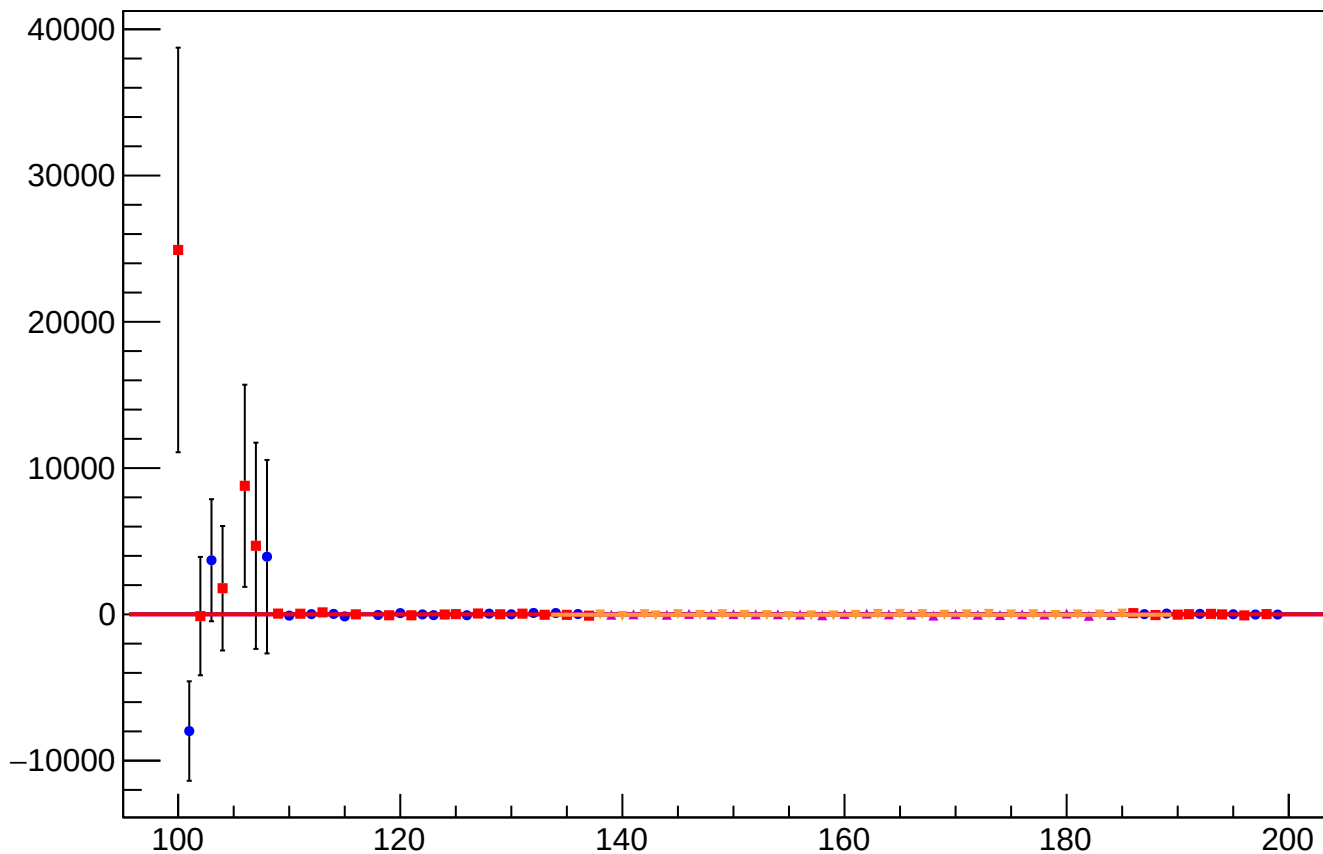
Right: 180.409 $\pm$ 0.031 χ^2 /NDF: 9635290.6/49

In: 183.594 $\pm$ 0.026 χ^2 /NDF:5821826.3/45

Out: 193.840 $\pm$ 0.027 χ^2 /NDF:7207010.3/51

All: 188.614 $\pm$ 0.019 χ^2 /NDF: 13102958.8/97

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.460+/-11.209 χ^2/NDF : 22.4/22

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 2.741+/-10.634 χ^2/NDF : 30.0/26

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

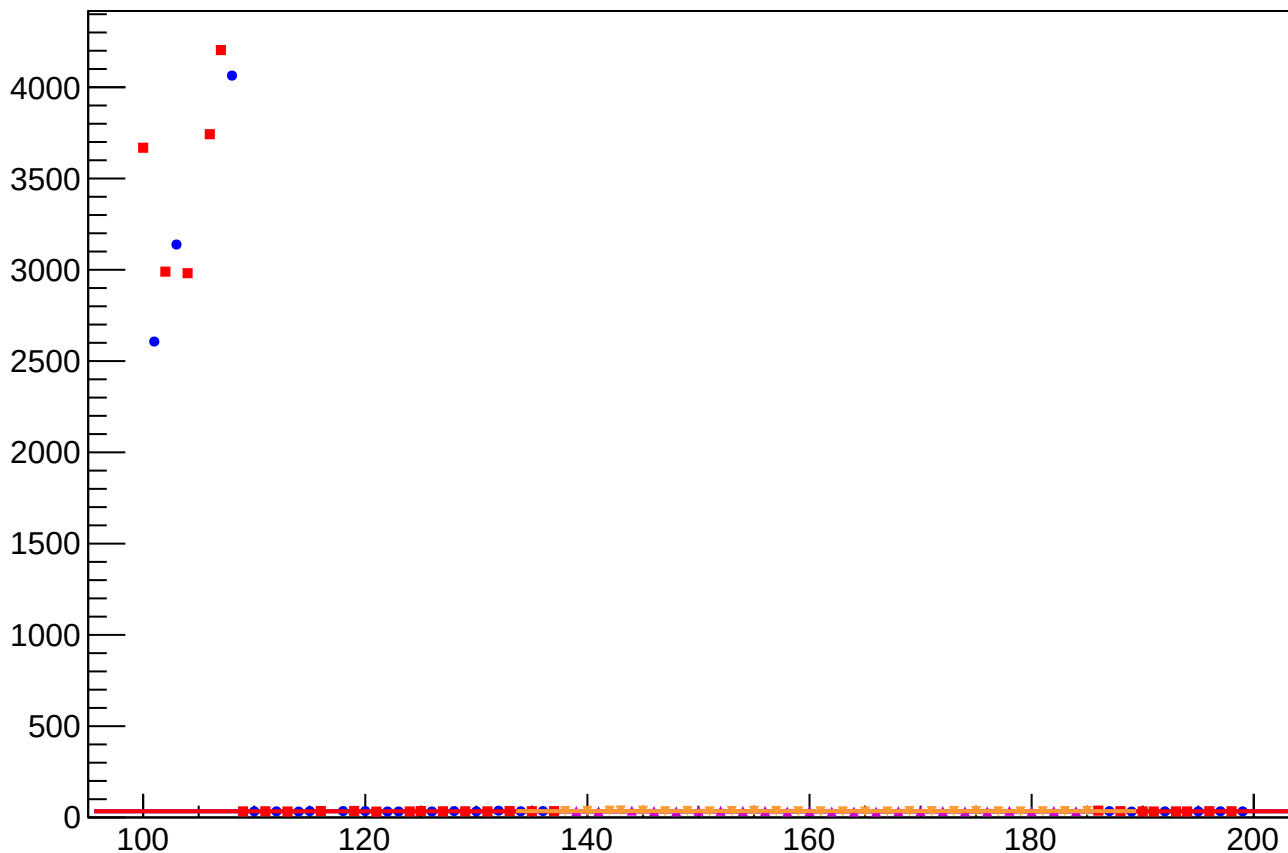
Right: 5.924+/-7.715 χ^2/NDF : 52.6/49

In: -0.518+/-6.675 χ^2/NDF : 44.7/45

Out: -13.830+/-6.426 χ^2/NDF : 59.7/51

All: -7.427+/-4.629 χ^2/NDF : 106.5/97

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: 33.883 $\pm$ 0.008 χ^2 /NDF: 3462392.9/26

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

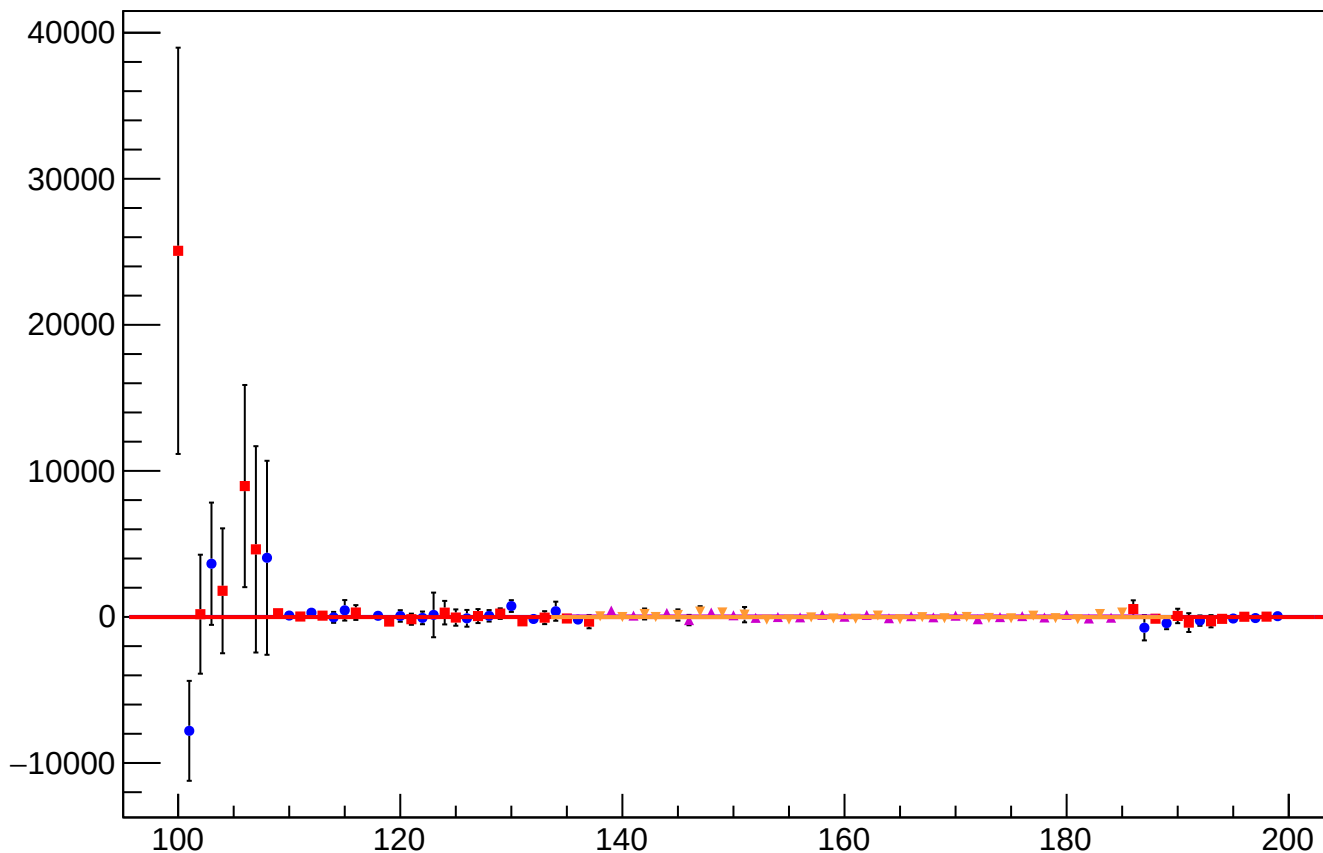
Right: 33.822 $\pm$ 0.005 χ^2 /NDF: 6474182.6/49

In: 34.355 $\pm$ 0.005 χ^2 /NDF: 3080851.5/45

Out: 34.347 $\pm$ 0.005 χ^2 /NDF: 3526351.0/51

All: 34.351 $\pm$ 0.003 χ^2 /NDF: 6607204.1/97

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: -11.395 ± 60.549 $\chi^2/\text{NDF}: 13.3/26$

Left In: 34.127 ± 46.296 $\chi^2/\text{NDF}: 7.4/22$

Left: 13.656 ± 33.526 $\chi^2/\text{NDF}: 16.5/47$

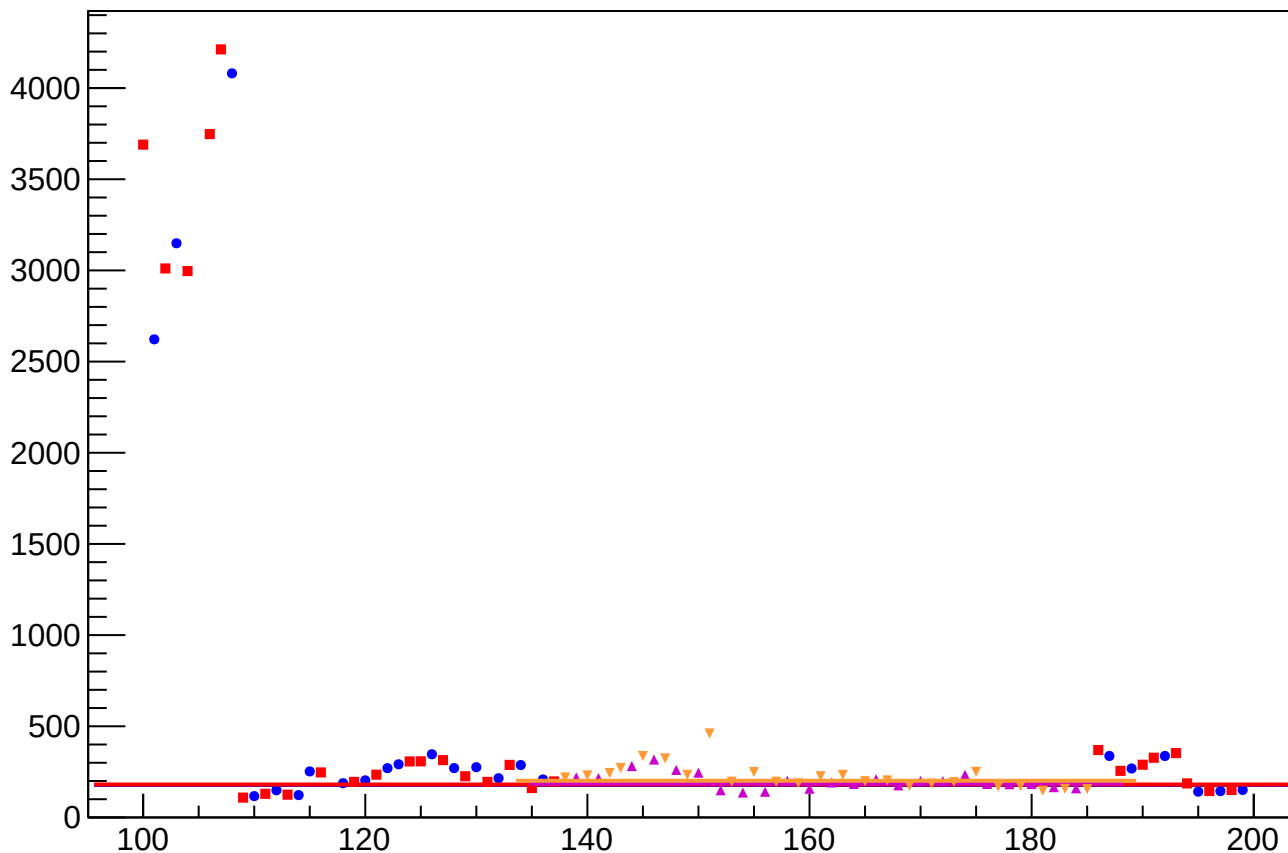
Right: -5.750 ± 43.447 $\chi^2/\text{NDF}: 29.9/49$

In: 22.091 ± 37.176 $\chi^2/\text{NDF}: 24.2/45$

Out: -9.888 ± 37.908 $\chi^2/\text{NDF}: 21.9/51$

All: 6.414 ± 26.542 $\chi^2/\text{NDF}: 46.5/97$

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: 180.596+/-0.043 χ^2/NDF : 5272861.7/26

Left In: 185.854+/-0.033 χ^2/NDF :1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

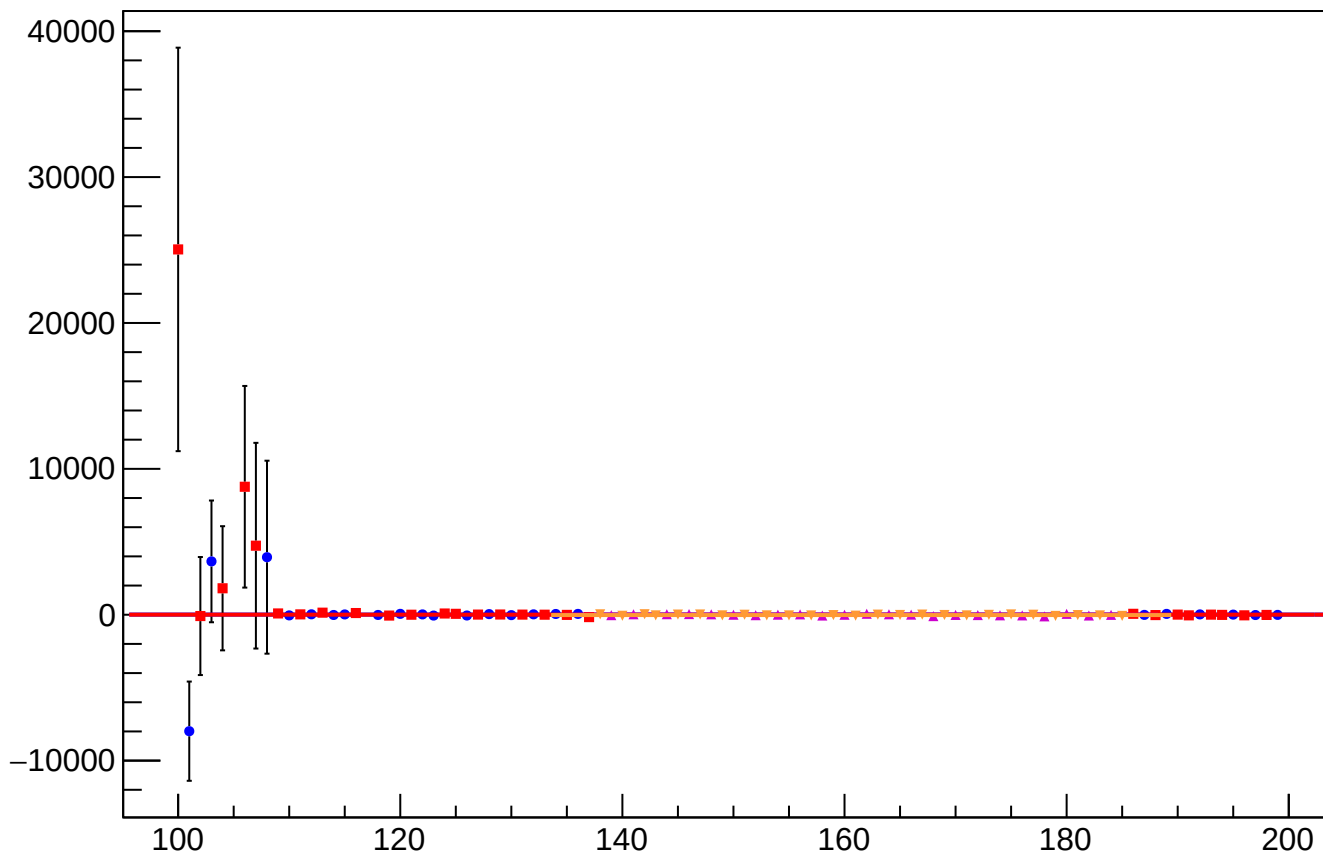
Right: 179.472+/-0.031 χ^2/NDF : 9718909.2/49

In: 183.163+/-0.026 χ^2/NDF :5845414.7/45

Out: 193.183+/-0.027 χ^2/NDF :7266123.5/51

All: 188.075+/-0.019 χ^2/NDF : 13182756.7/97

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: 5.237+/-9.654 χ^2/NDF : 34.2/26

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

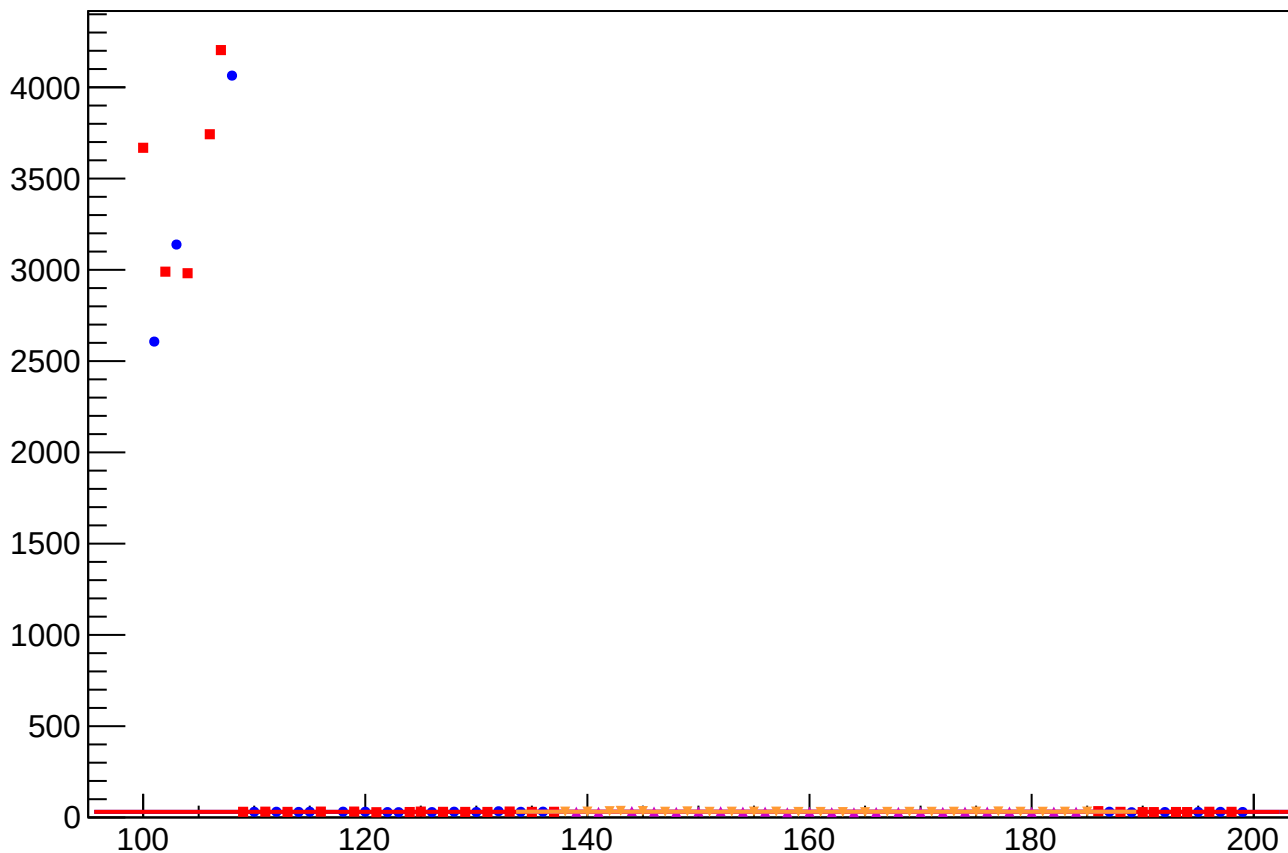
Right: 7.642+/-7.002 χ^2/NDF : 51.5/49

In: -0.170+/-6.062 χ^2/NDF : 57.1/45

Out: -12.579+/-5.843 χ^2/NDF : 58.3/51

All: -6.603+/-4.207 χ^2/NDF : 117.6/97

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: 30.731+/-0.007 χ^2/NDF : 3475769.8/26

Left In: 31.484+/-0.005 χ^2/NDF : 87981.1/22

Left: 31.483+/-0.004 χ^2/NDF : 170418.5/47

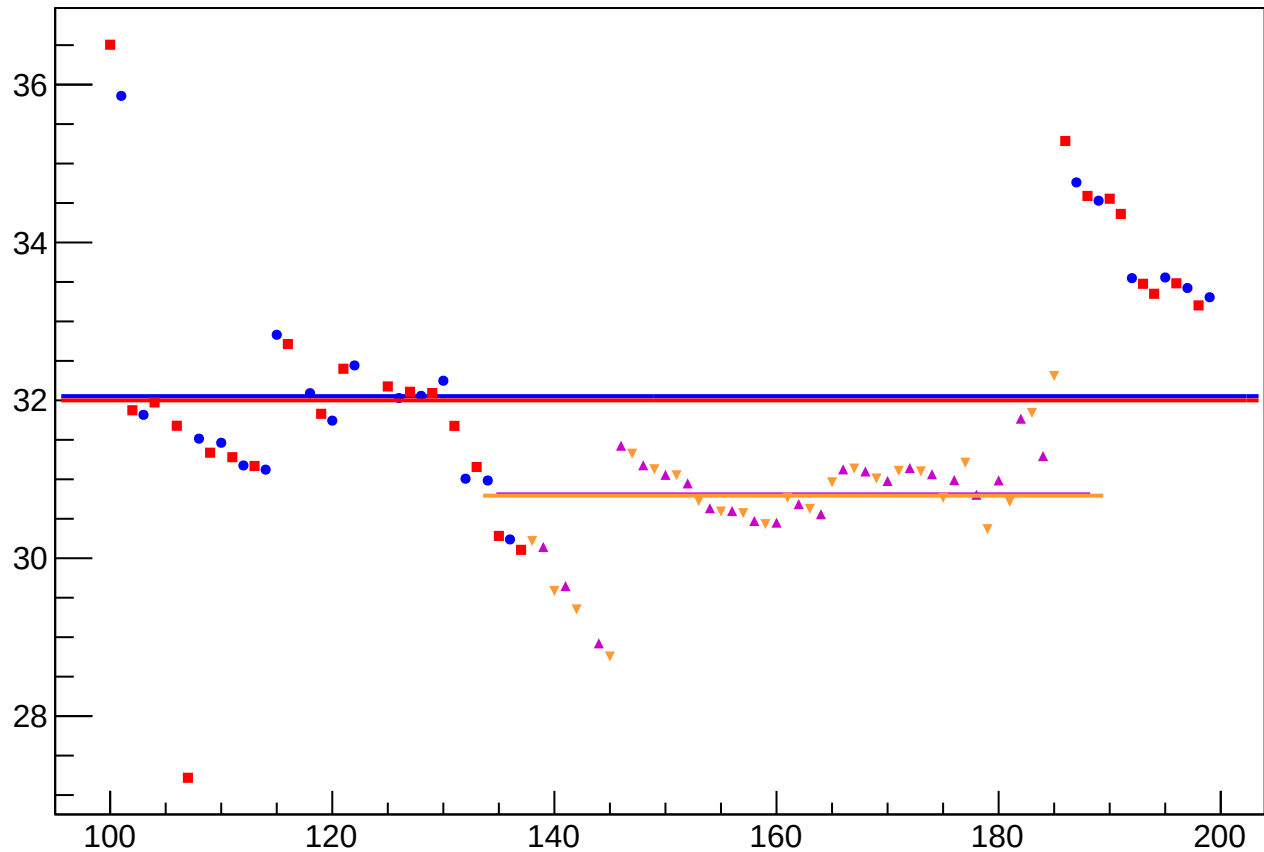
Right: 30.680+/-0.005 χ^2/NDF : 6500767.4/49

In: 31.179+/-0.004 χ^2/NDF : 3122099.9/45

Out: 31.207+/-0.004 χ^2/NDF : 3565873.8/51

All: 31.193+/-0.003 χ^2/NDF : 6687995.8/97

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: 32.000+/-0.000 χ^2/NDF : 1936631376.6/25

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000 χ^2/NDF : 1829591088.1/46

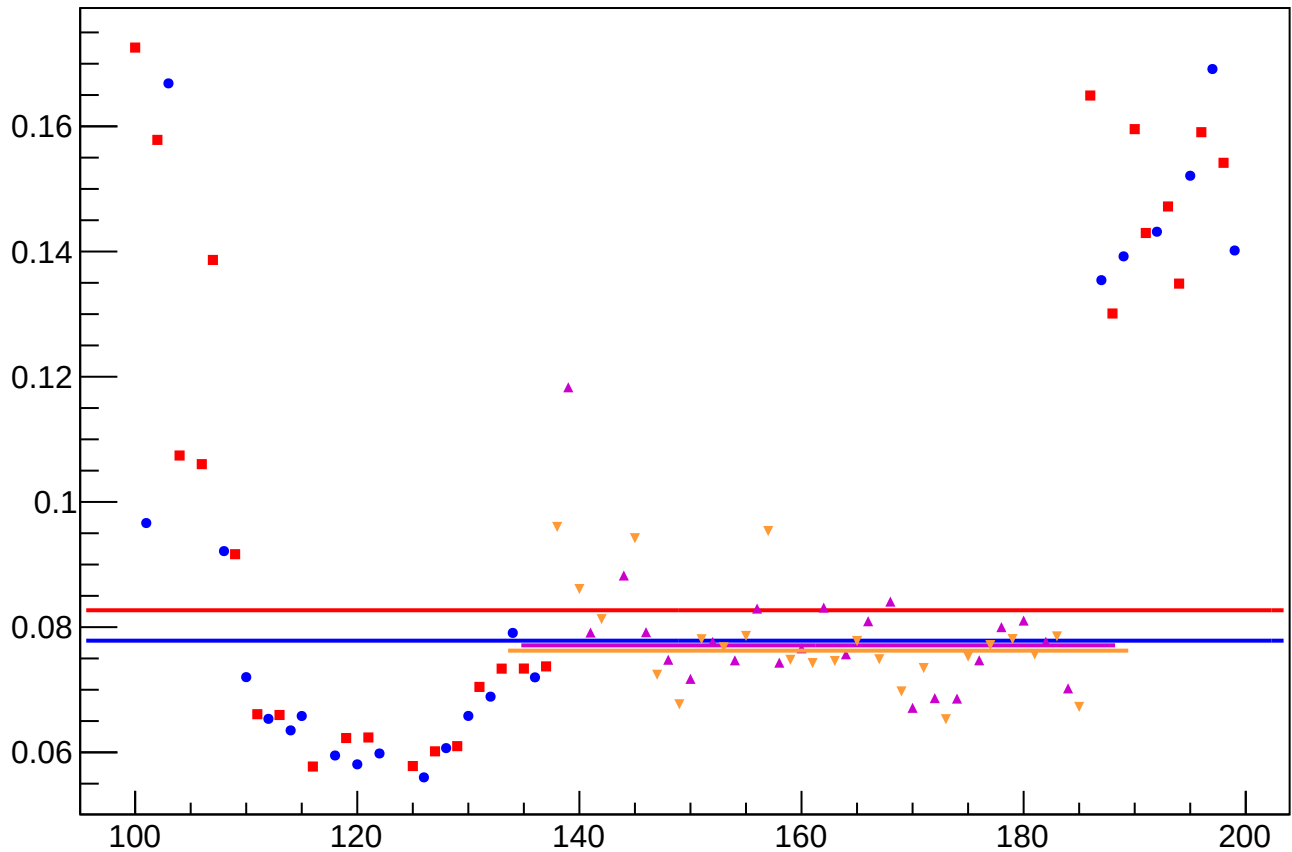
Right: 32.027+/-0.000 χ^2/NDF : 4034305382.0/47

In: 31.242+/-0.000 χ^2/NDF : 4351819448.3/44

Out: 31.203+/-0.000 χ^2/NDF : 4309691728.6/49

All: 31.222+/-0.000 χ^2/NDF : 8664658205.1/99

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: 0.083+/-0.000 χ^2/NDF : 3059283.8/25

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

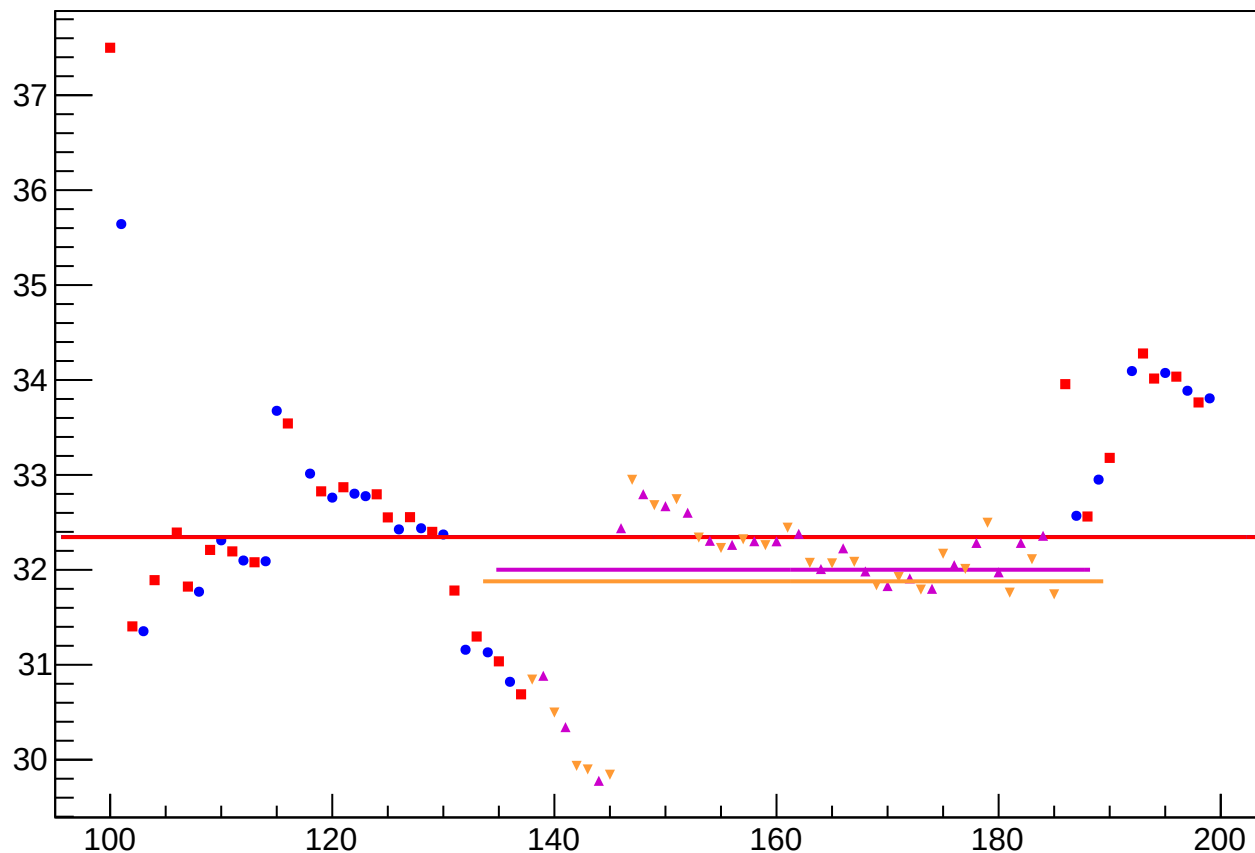
Right: 0.080+/-0.000 χ^2/NDF : 5688813.5/47

In: 0.077+/-0.000 χ^2/NDF : 2922943.8/44

Out: 0.078+/-0.000 χ^2/NDF : 3415075.0/49

All: 0.078+/-0.000 χ^2/NDF : 6342896.1/94

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: 32.345+/-0.000 χ^2/NDF : 705013116.3/25

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

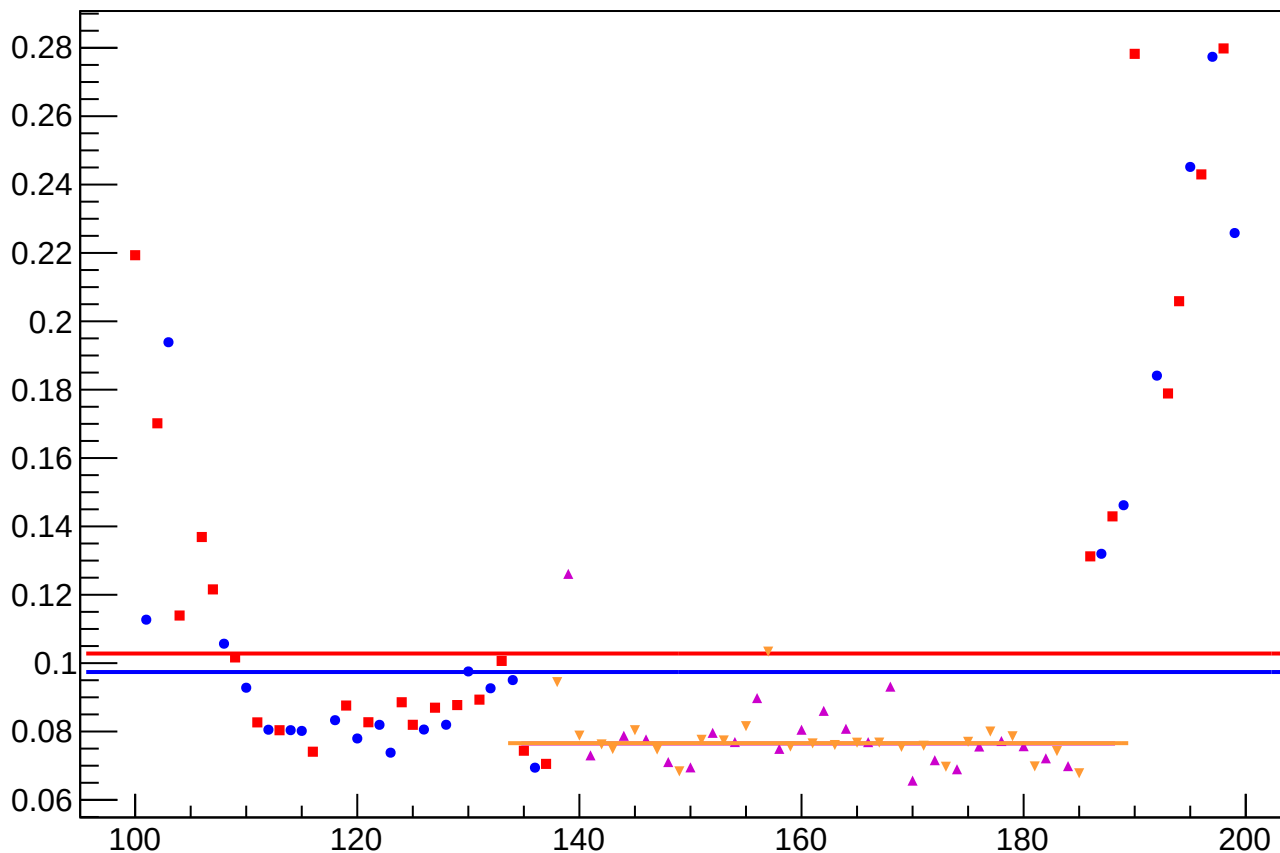
Right: 32.346+/-0.000 χ^2/NDF : 1908162834.0/48

In: 32.085+/-0.000 χ^2/NDF : 2693187006.8/45

Out: 31.990+/-0.000 χ^2/NDF : 2829203825.1/50

All: 32.036+/-0.000 χ^2/NDF : 5539102419.9/99

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: 0.103 $\pm$ 0.000 χ^2 /NDF: 3022037.7/25

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

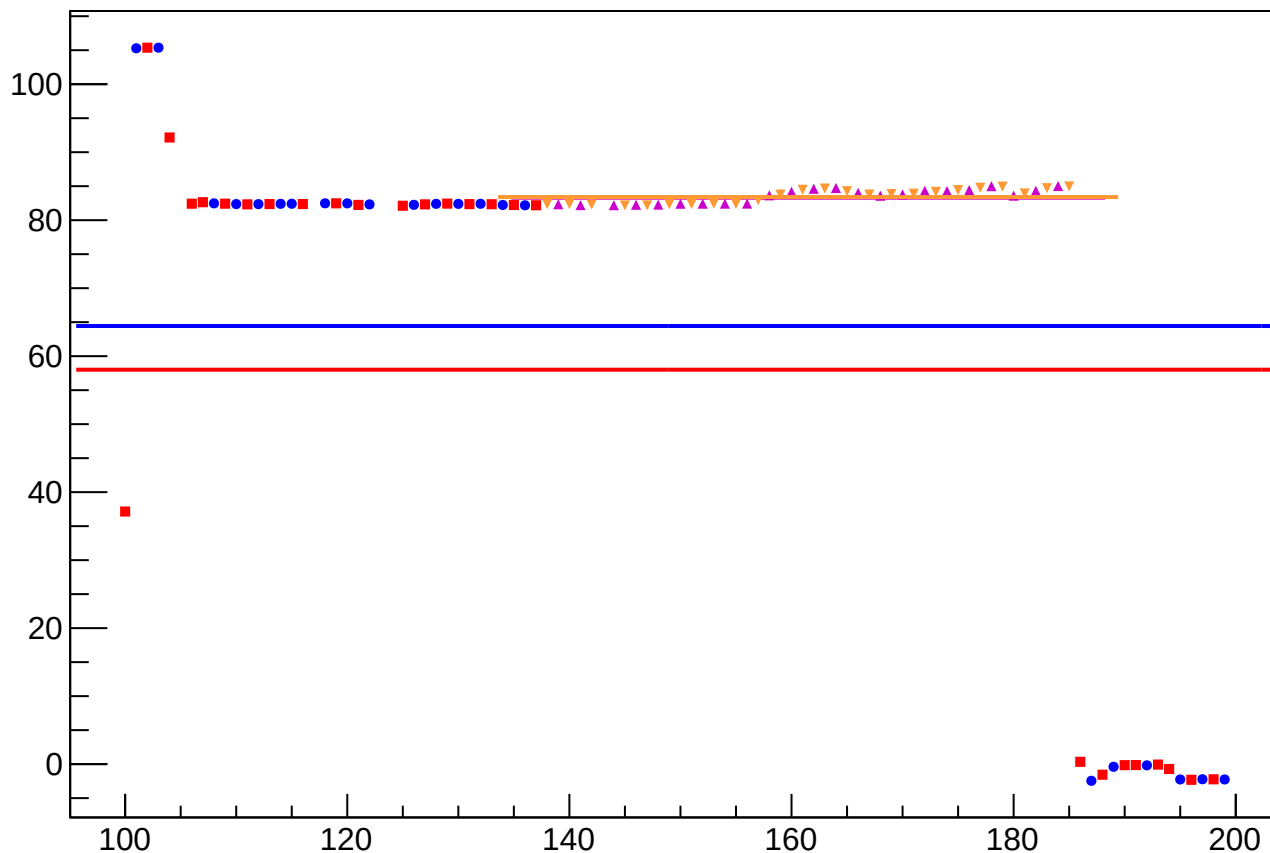
Right: 0.100 $\pm$ 0.000 χ^2 /NDF: 6019807.2/48

In: 0.082 $\pm$ 0.000 χ^2 /NDF:3984332.8/45

Out: 0.083 $\pm$ 0.000 χ^2 /NDF:4169175.0/50

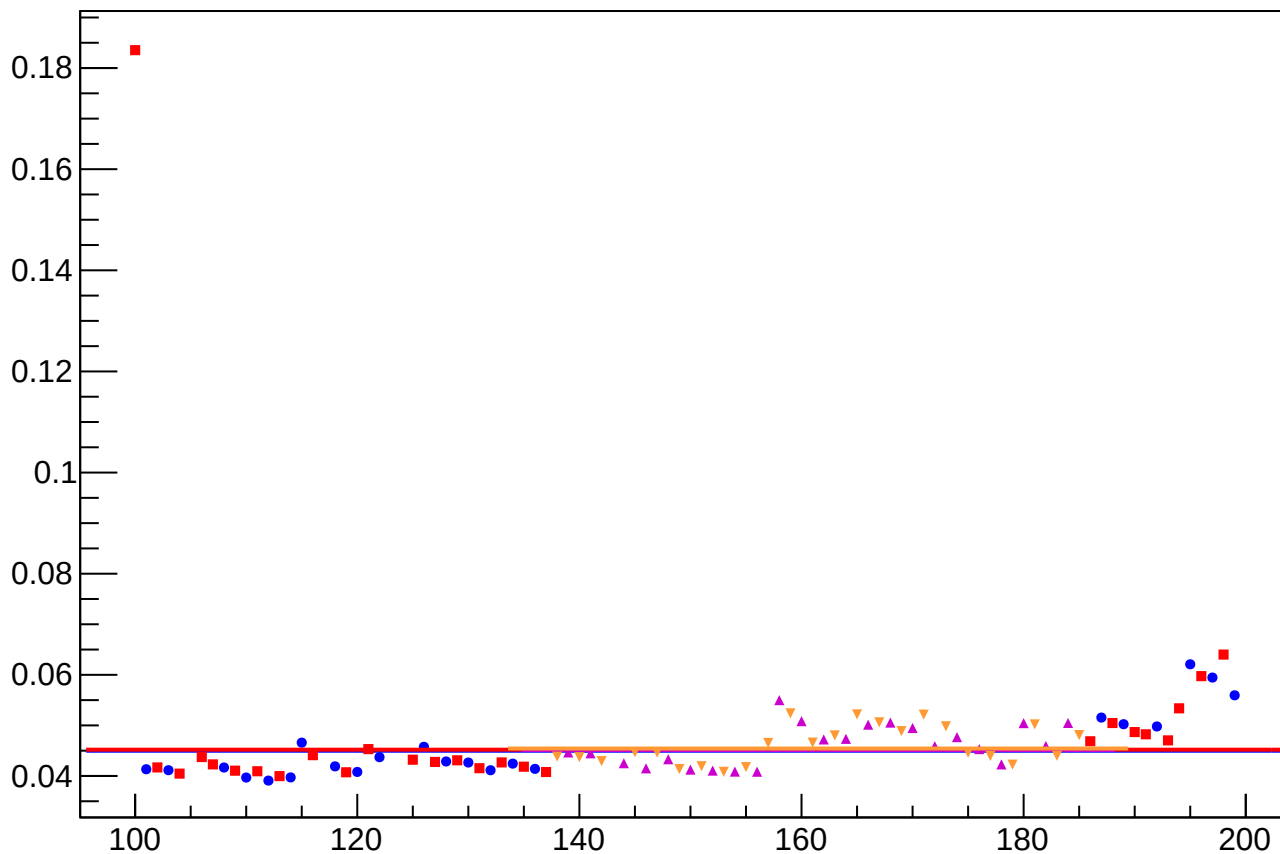
All: 0.082 $\pm$ 0.000 χ^2 /NDF: 8159337.0/96

yield_dsl_mean vs Slug, Sign Corrected



Right In: 64.435 $\pm$ 0.000	χ^2 /NDF: 7570838403263.8/21	Left: 83.355 $\pm$ 0.000	χ^2 /NDF: 17213898269.1/46
Left Out: 83.402 $\pm$ 0.000	χ^2 /NDF: 8756634444.3/23	Right: 61.027 $\pm$ 0.000	χ^2 /NDF: 16848421763409.9/24
Right Out: 58.013 $\pm$ 0.000	χ^2 /NDF: 9167818205039.6/25	In: 76.209 $\pm$ 0.000	χ^2 /NDF: 8694022927927.2/44
Left In: 83.309 $\pm$ 0.000	χ^2 /NDF: 8421247810.9/22	Out: 73.088 $\pm$ 0.000	χ^2 /NDF: 11346572177120.0/44
		All: 74.613 $\pm$ 0.000	χ^2 /NDF: 2010700791921.1/100

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: 0.045+/-0.000 χ^2/NDF : 466490.8/25

Left In: 0.045+/-0.000 χ^2/NDF : 242885.4/22

Left: 0.045+/-0.000 χ^2/NDF : 450258.5/46

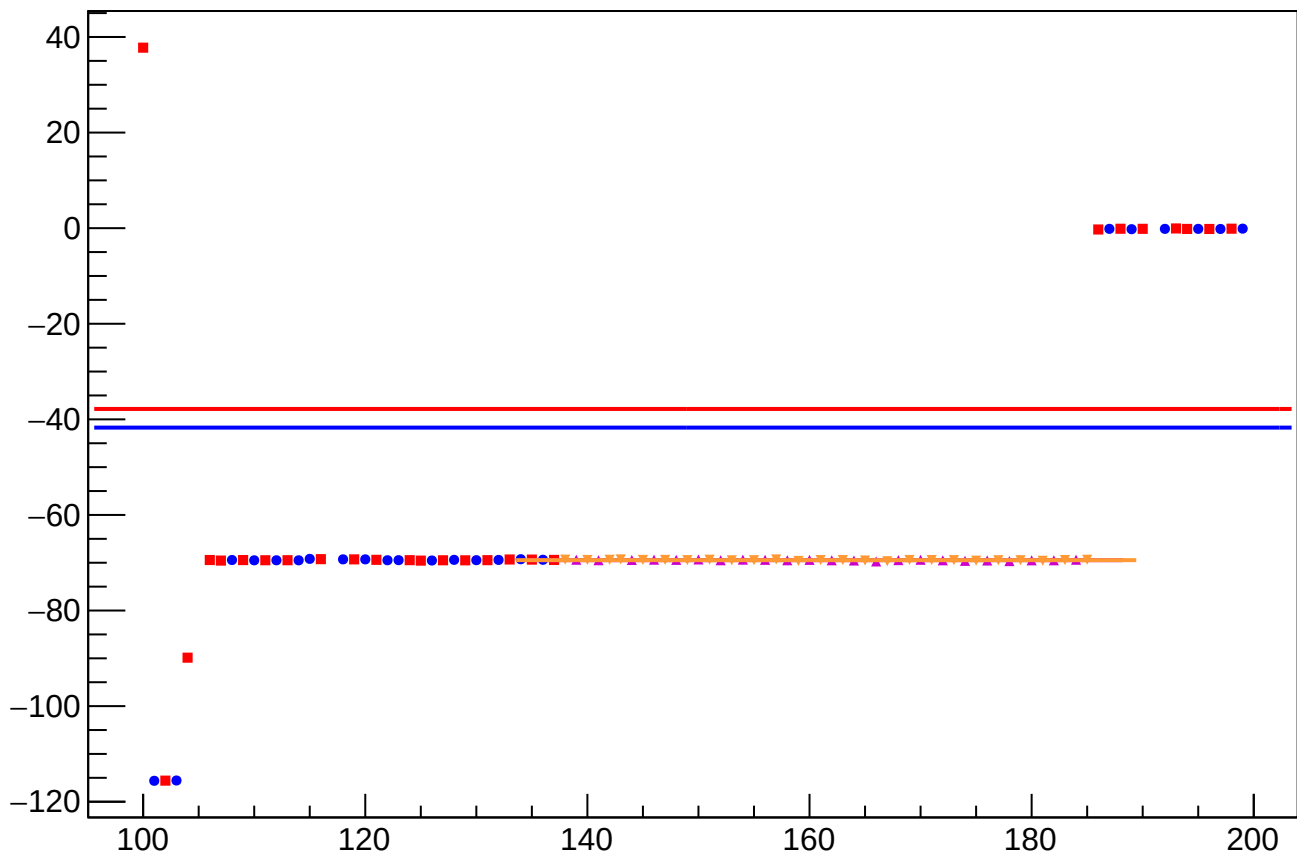
Right: 0.045+/-0.000 χ^2/NDF : 867127.1/47

In: 0.045+/-0.000 χ^2/NDF : 643440.5/44

Out: 0.045+/-0.000 χ^2/NDF : 673543.4/49

All: 0.045+/-0.000 χ^2/NDF : 1317830.6/94

yield_dsr_mean vs Slug, Sign Corrected



Right In: -41.727 $\pm$ 0.000

χ^2 /NDF: 5759955317293.6/22

Left: -69.460 $\pm$ 0.000

χ^2 /NDF: 102399164.0/47

Left Out: -69.461 $\pm$ 0.000

χ^2 /NDF: 49572401.9/24

Right: -39.647 $\pm$ 0.000

χ^2 /NDF: 11736660128343.6

Right Out: -37.824 $\pm$ 0.000

χ^2 /NDF: 5948035510831.5/25

In: -58.554 $\pm$ 0.000

χ^2 /NDF: 7408049228381.6/45

Out: -56.533 $\pm$ 0.000

χ^2 /NDF: 8332722820599.9/5

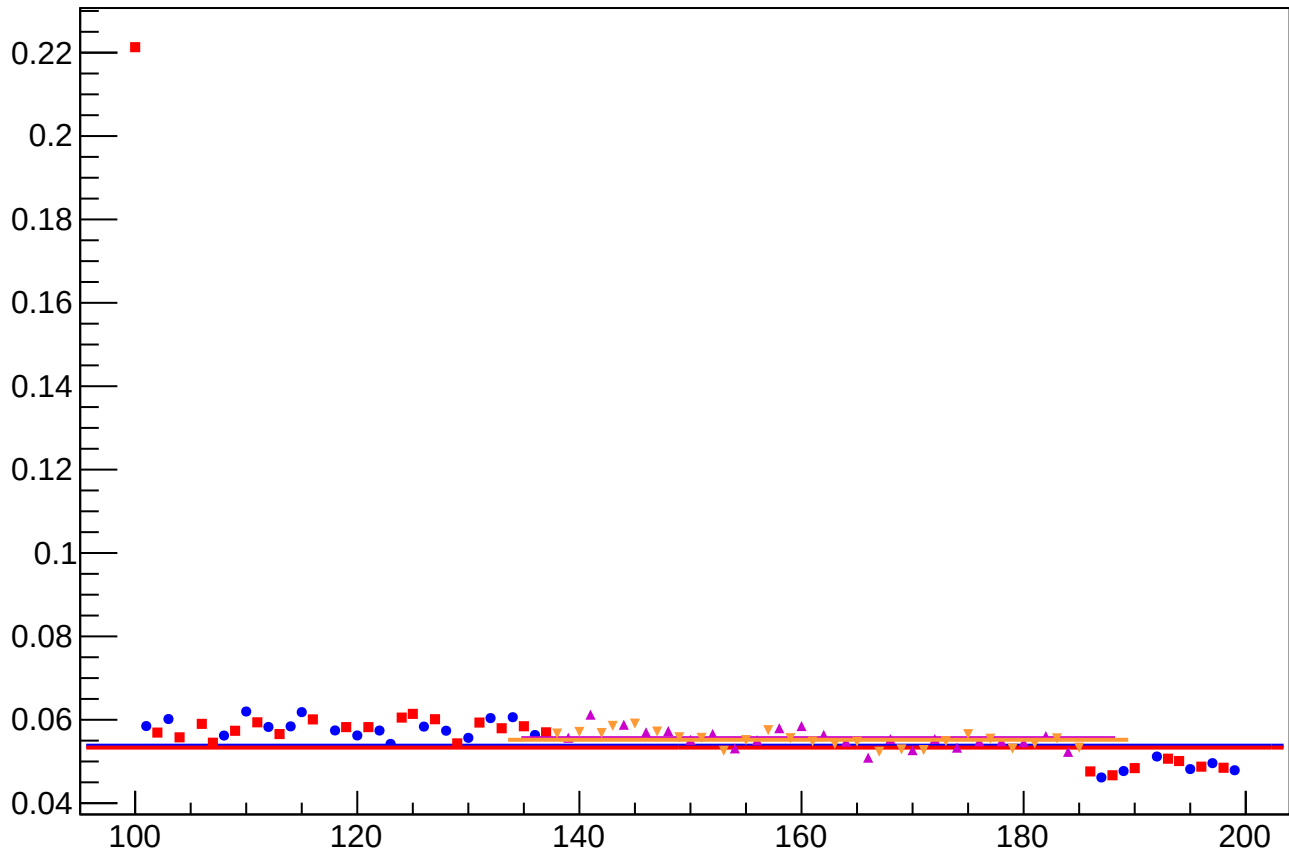
Left In: -69.458 $\pm$ 0.000

χ^2 /NDF: 52798704.3/22

All: -57.496 $\pm$ 0.000

χ^2 /NDF: 157599582496

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 : 265668.4/25

Left In: 0.056+/-0.000 χ^2/NDF : 52190.5/22

Left: 0.055+/-0.000 χ^2/NDF : 91784.6/47

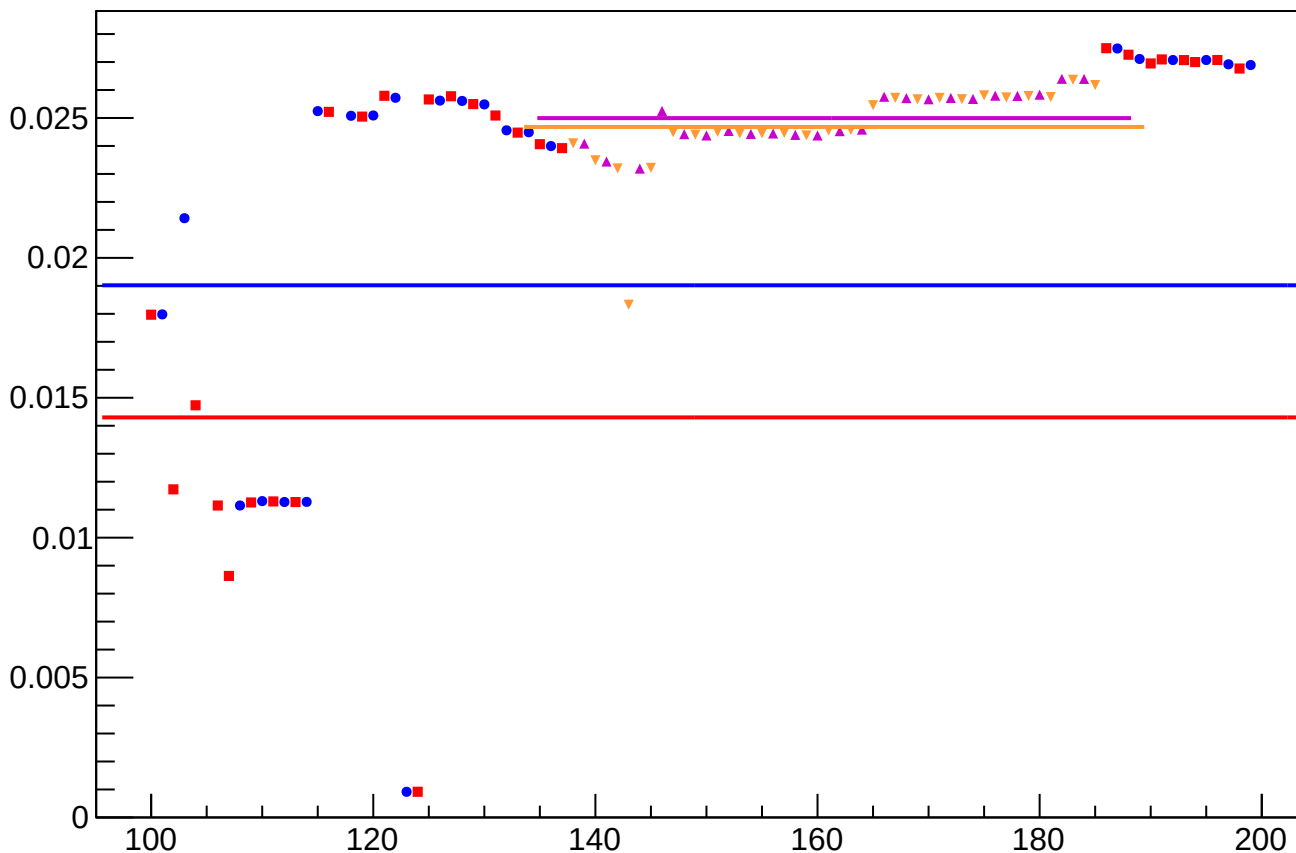
Right: 0.054+/-0.000 χ^2/NDF : 430725.2/48

In: 0.055+/-0.000 χ^2/NDF : 230411.0/45

Out: 0.054+/-0.000 χ^2/NDF : 321262.7/50

All: 0.055+/-0.000 χ^2/NDF : 553516.7/96

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.019 $\pm$ 0.000 χ^2 /NDF: 161900350745.4/22

Left Out: 0.025 $\pm$ 0.000 χ^2 /NDF: 9641065555.8/24

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 346724237485.9/26

Left In: 0.025 $\pm$ 0.000 χ^2 /NDF: 2462473687.7/22

Left: 0.025 $\pm$ 0.000 χ^2 /NDF: 12284812437.7/47

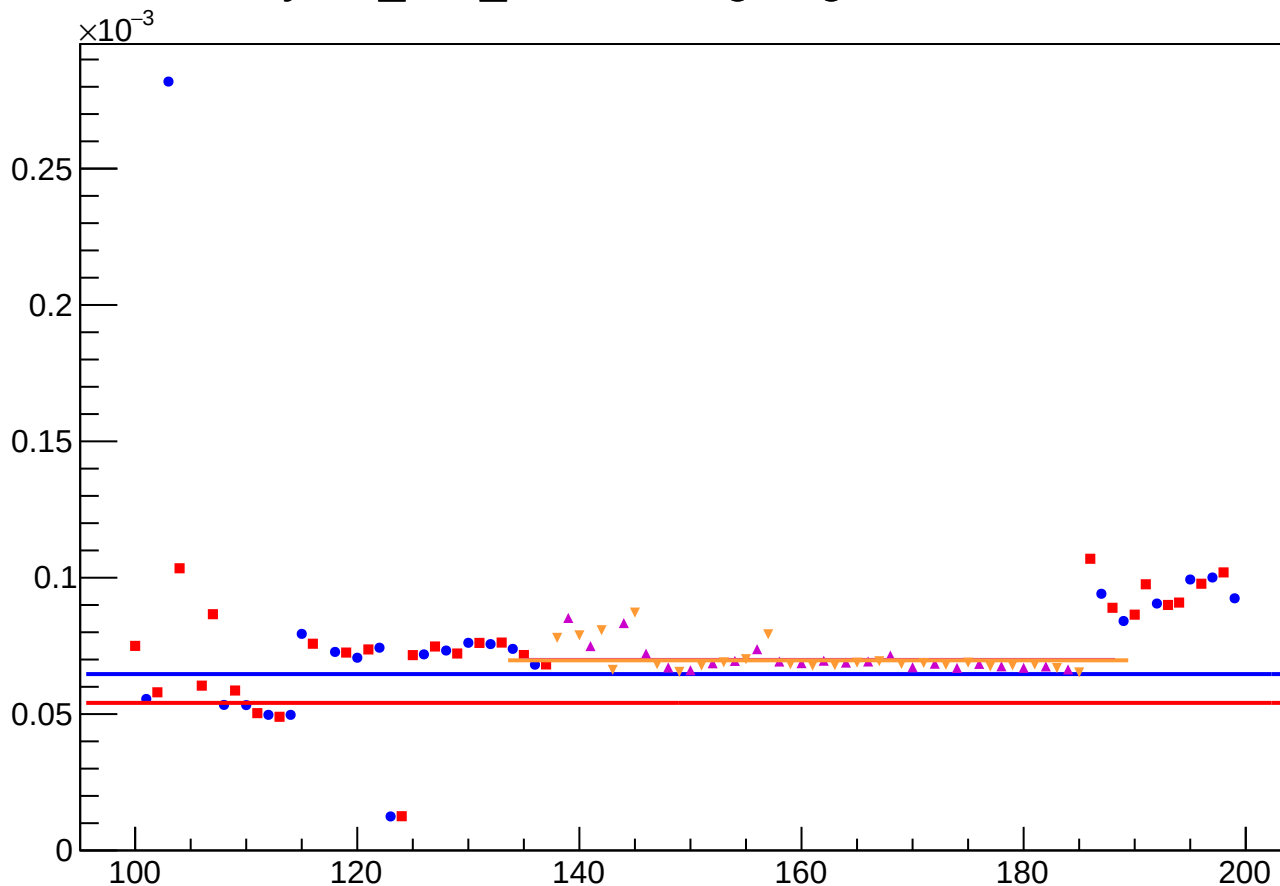
Right: 0.016 $\pm$ 0.000 χ^2 /NDF: 536136558749.0/49

In: 0.023 $\pm$ 0.000 χ^2 /NDF: 211593217167.4/45

Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 533802718233.8/51

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 767157004189.6

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 : 5810962.7/26

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

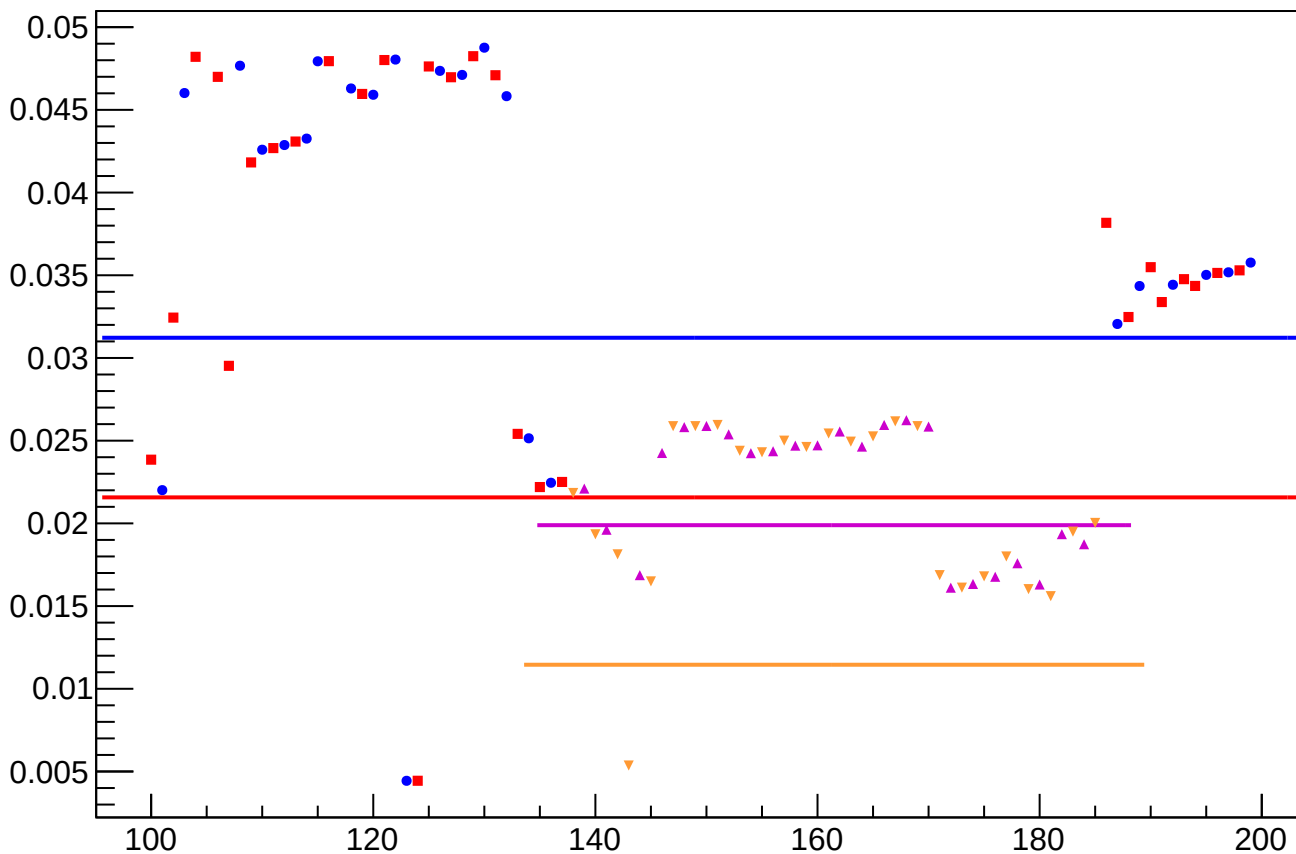
Right: 0.000+/-0.000 χ^2/NDF : 9037576.8/49

In: 0.000+/-0.000 χ^2/NDF :3151997.0/45

Out: 0.000+/-0.000 χ^2/NDF :6771178.5/51

All: 0.000+/-0.000 χ^2/NDF : 10082345.1/97

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 : 68398418845.2/49

Right Out: 0.022+/-0.000

χ^2/NDF : 42480381897.9/26

In: 0.022+/-0.000

χ^2/NDF : 33853519910.0/45

Out: 0.013+/-0.000

χ^2/NDF : 94195626470.5/51

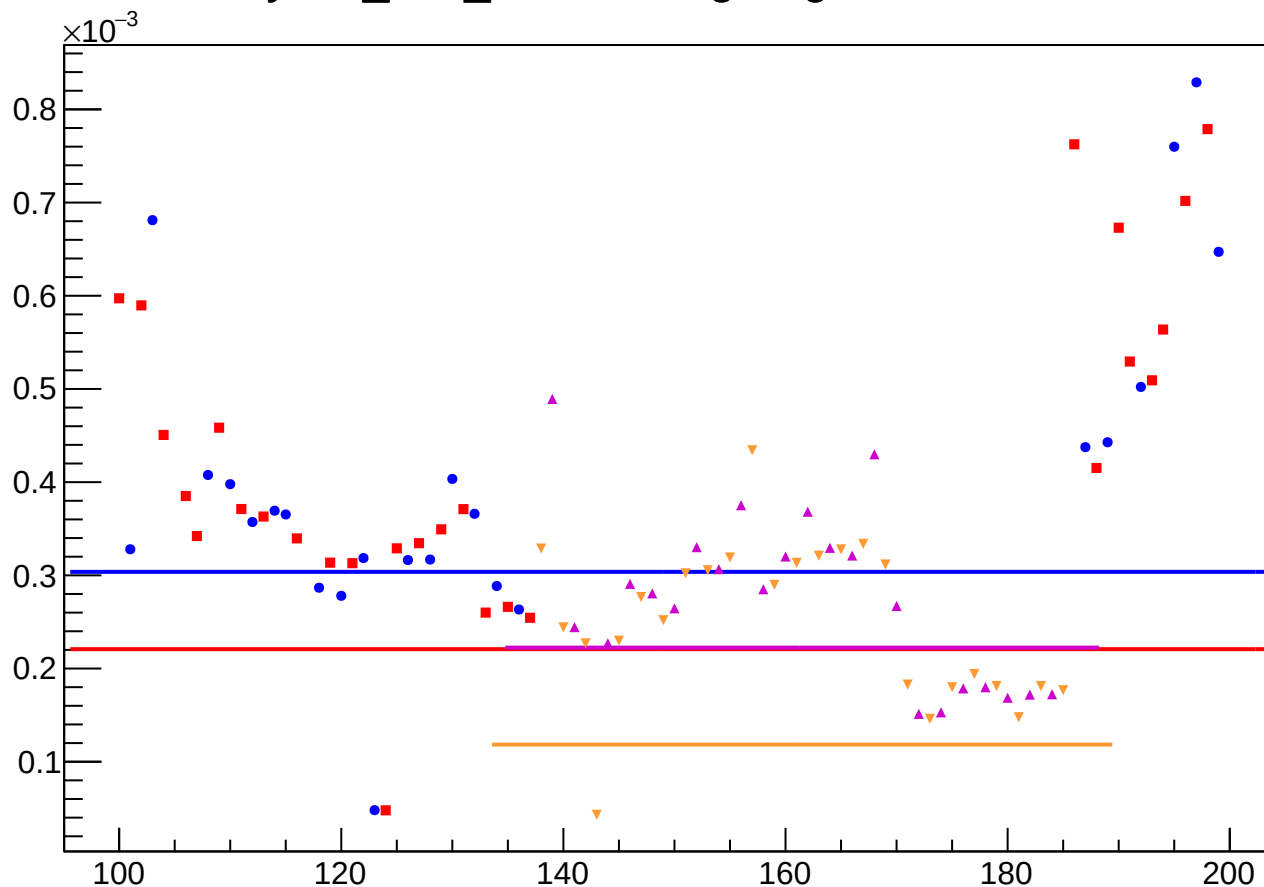
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 150594953665.4

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 : 9476586.0/26

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

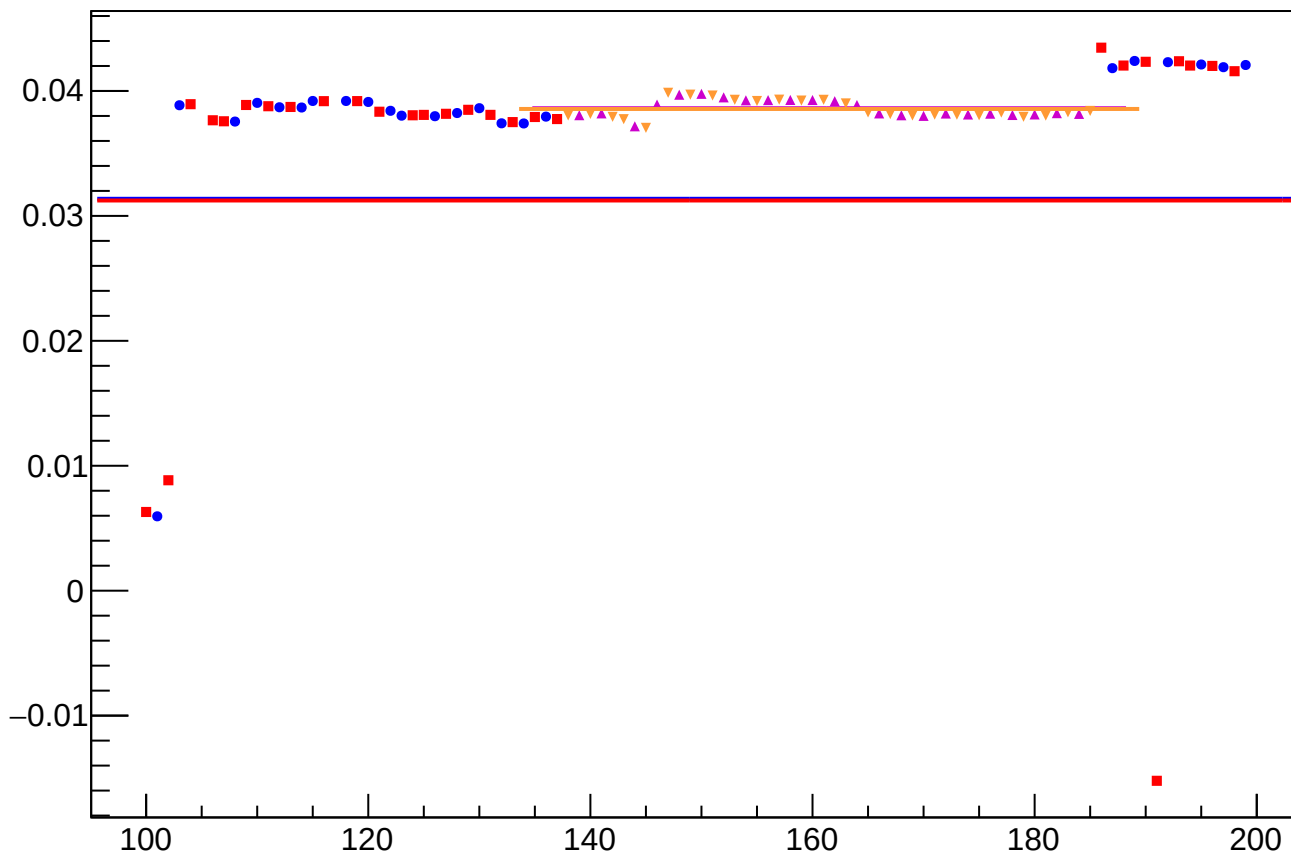
Right: 0.000+/-0.000 χ^2/NDF : 14752518.0/49

In: 0.000+/-0.000 χ^2/NDF :8705014.2/45

Out: 0.000+/-0.000 χ^2/NDF :25378321.7/51

All: 0.000+/-0.000 χ^2/NDF : 39883651.2/97

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 : 278930991086.6/49

Right Out: 0.031+/-0.000

χ^2/NDF : 172733373267.4/26

In: 0.036+/-0.000

χ^2/NDF : 125221027810.5/45

Out: 0.036+/-0.000

χ^2/NDF : 193432103058.6/51

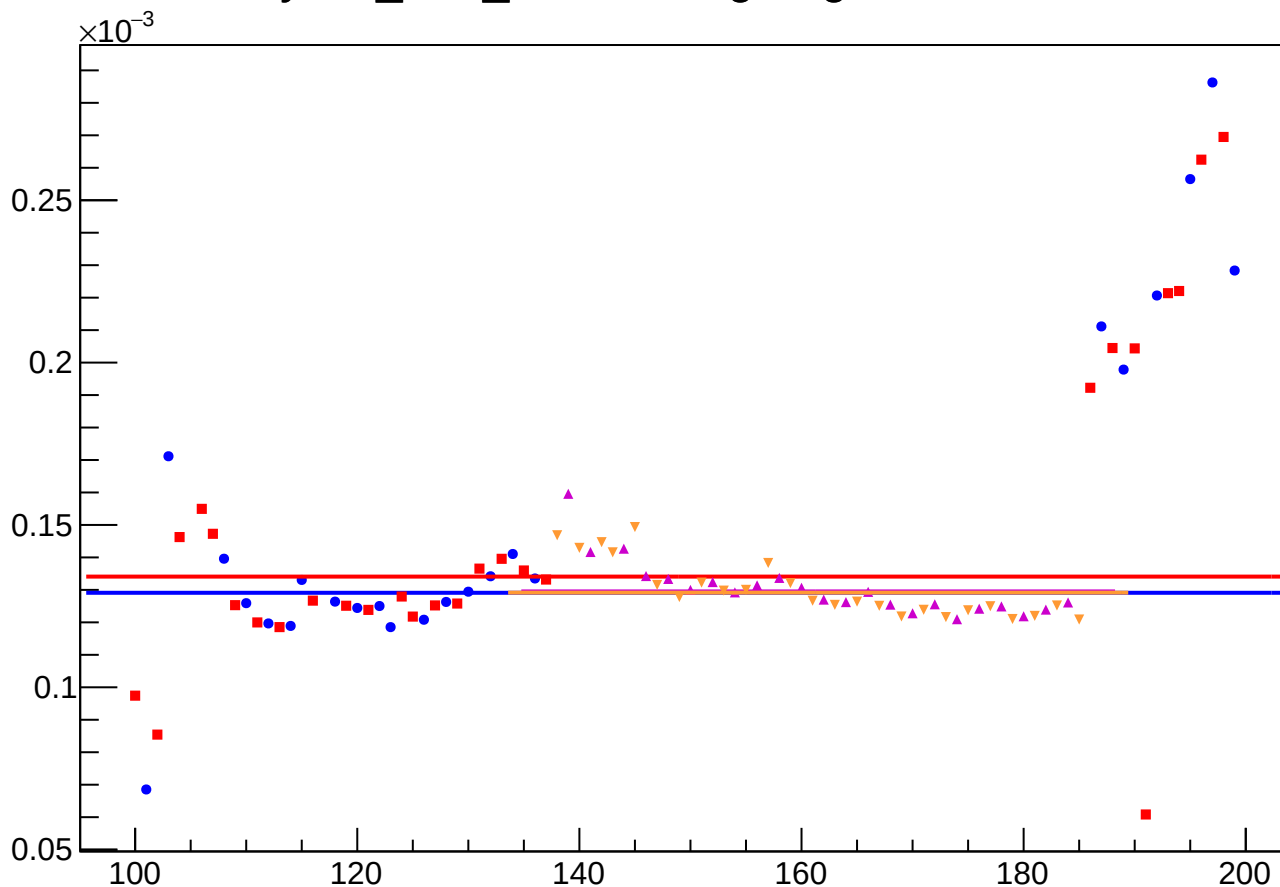
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.036+/-0.000

χ^2/NDF : 318659779871.5

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 : 2478950.9/26

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

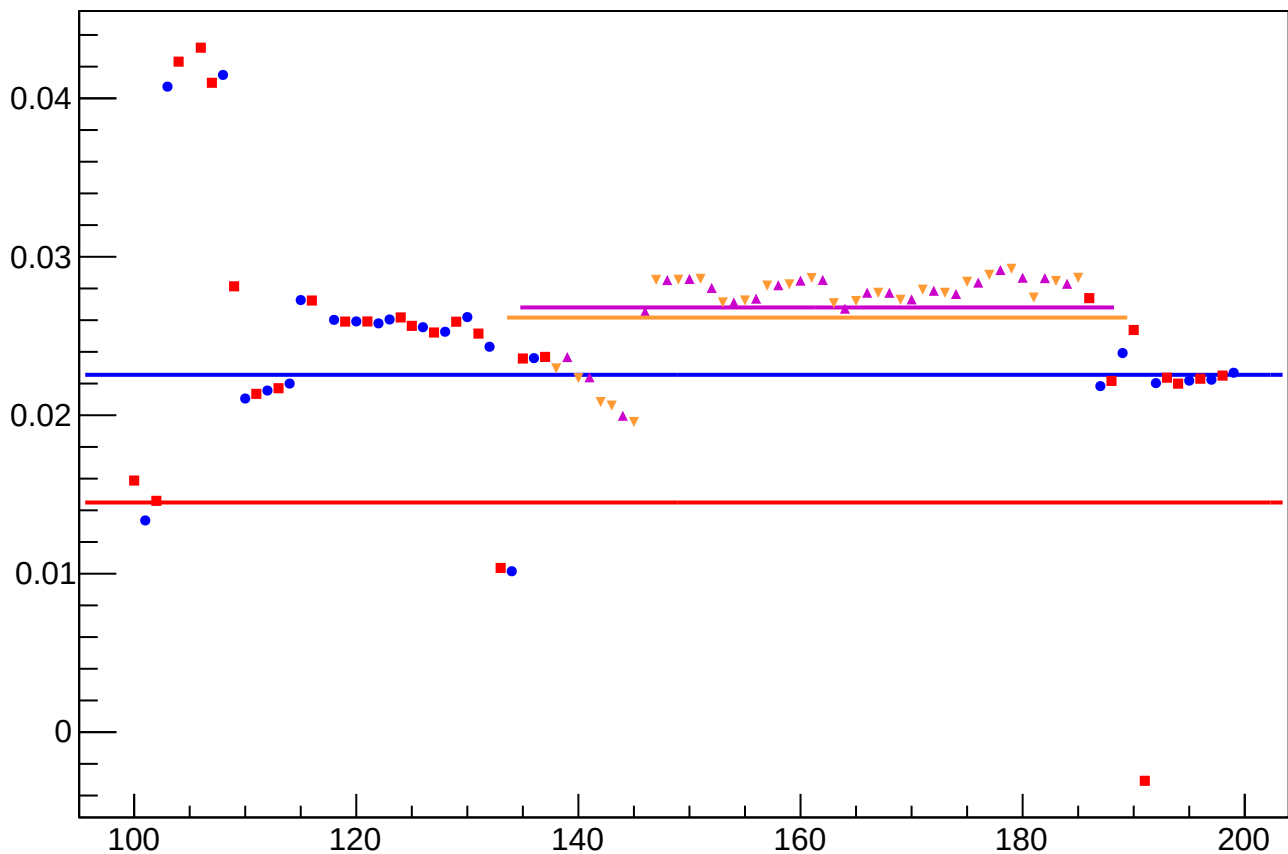
Right: 0.000+/-0.000 χ^2/NDF : 5088270.3/49

In: 0.000+/-0.000 χ^2/NDF :2710339.2/45

Out: 0.000+/-0.000 χ^2/NDF :2627625.3/51

All: 0.000+/-0.000 χ^2/NDF : 5341513.4/97

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4244177566.4/22

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.014+/-0.000 χ^2/NDF : 30723488033.3/26

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

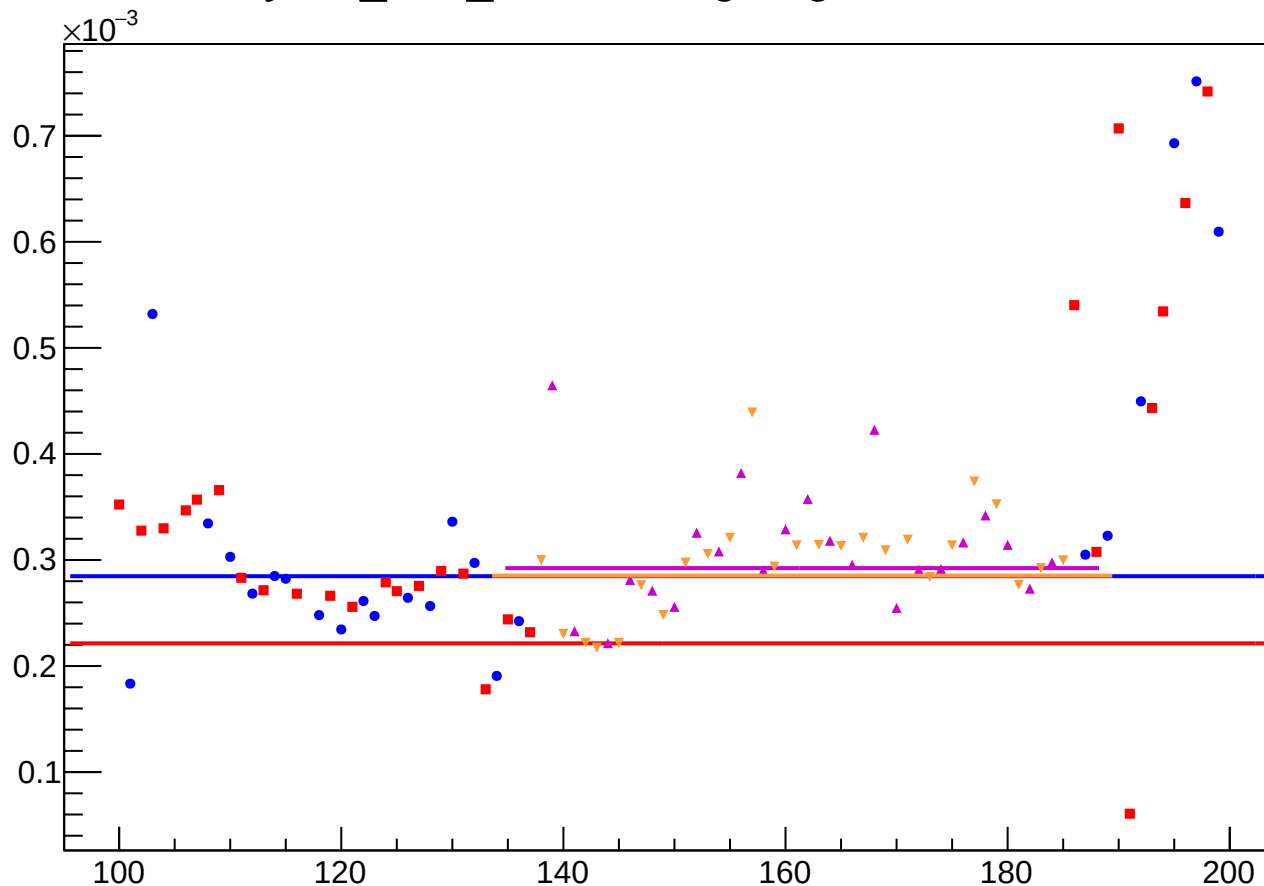
Right: 0.018+/-0.000 χ^2/NDF : 39047904395.5/49

In: 0.025+/-0.000 χ^2/NDF : 6779376416.8/45

Out: 0.021+/-0.000 χ^2/NDF : 44859834961.2/51

All: 0.023+/-0.000 χ^2/NDF : 54525862476.0/9

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 : 6568224.6/26

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

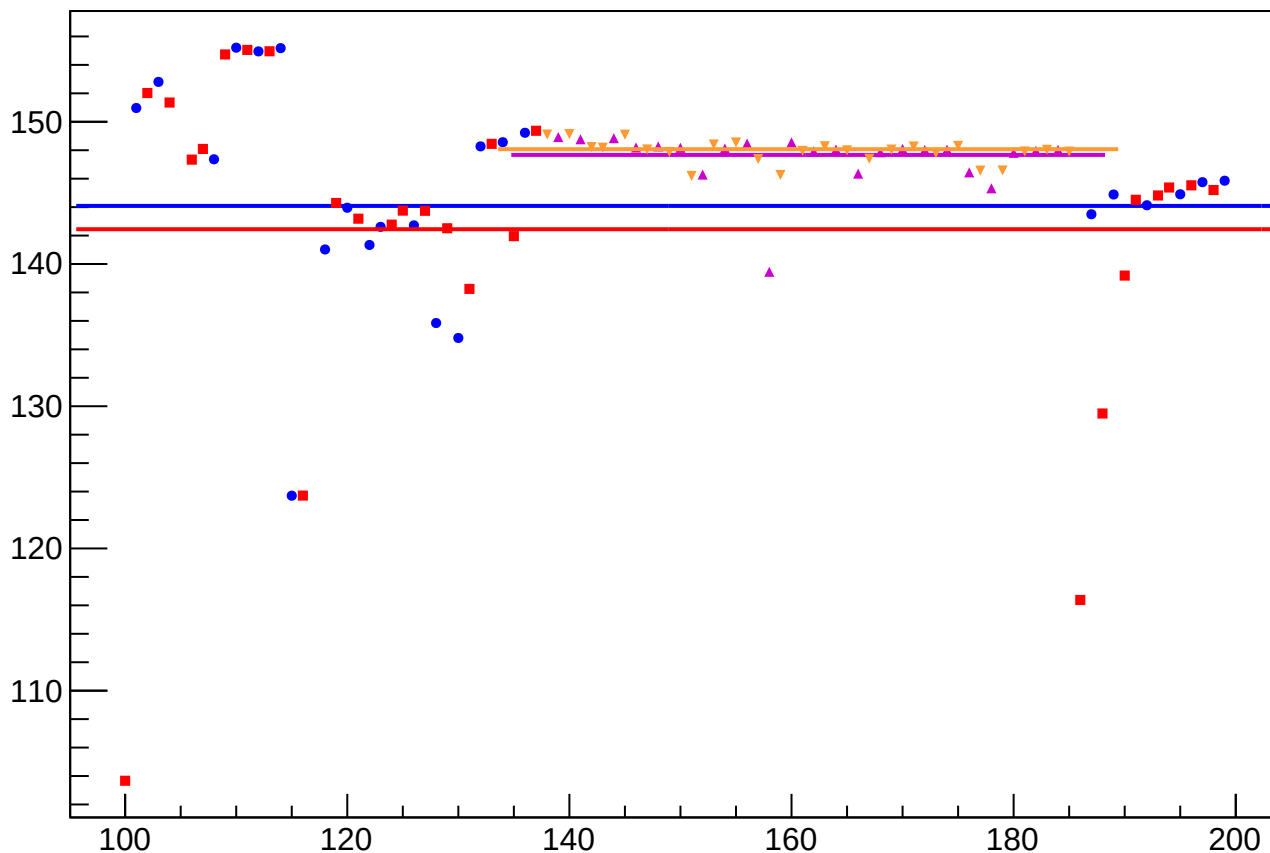
Right: 0.000+/-0.000 χ^2/NDF : 9669603.3/49

In: 0.000+/-0.000 χ^2/NDF :3504527.3/45

Out: 0.000+/-0.000 χ^2/NDF :8104555.7/51

All: 0.000+/-0.000 χ^2/NDF : 11946195.7/97

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: 142.446 $\pm$ 0.000 χ^2 /NDF: 7351639814.5/26

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

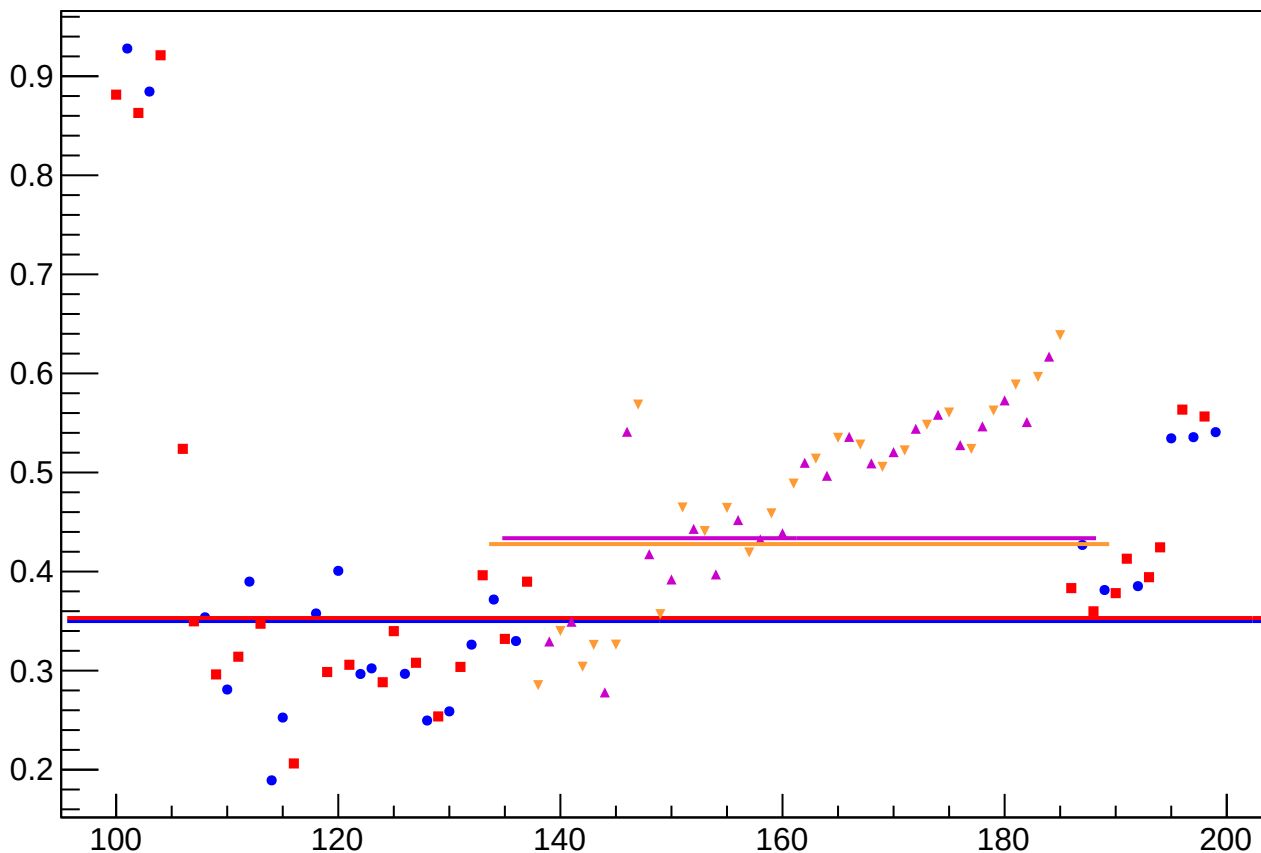
Right: 143.209 $\pm$ 0.000 χ^2 /NDF: 10928680441.4/49

In: 146.034 $\pm$ 0.000 χ^2 /NDF: 4325111233.6/45

Out: 145.410 $\pm$ 0.000 χ^2 /NDF: 8807607908.8/51

All: 145.706 $\pm$ 0.000 χ^2 /NDF: 13165292747.0

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: 0.353+/-0.000 χ^2/NDF : 1827348.8/26

Left In: 0.434+/-0.000 χ^2/NDF :1496343.5/22

Left: 0.431+/-0.000 χ^2/NDF : 3396308.8/47

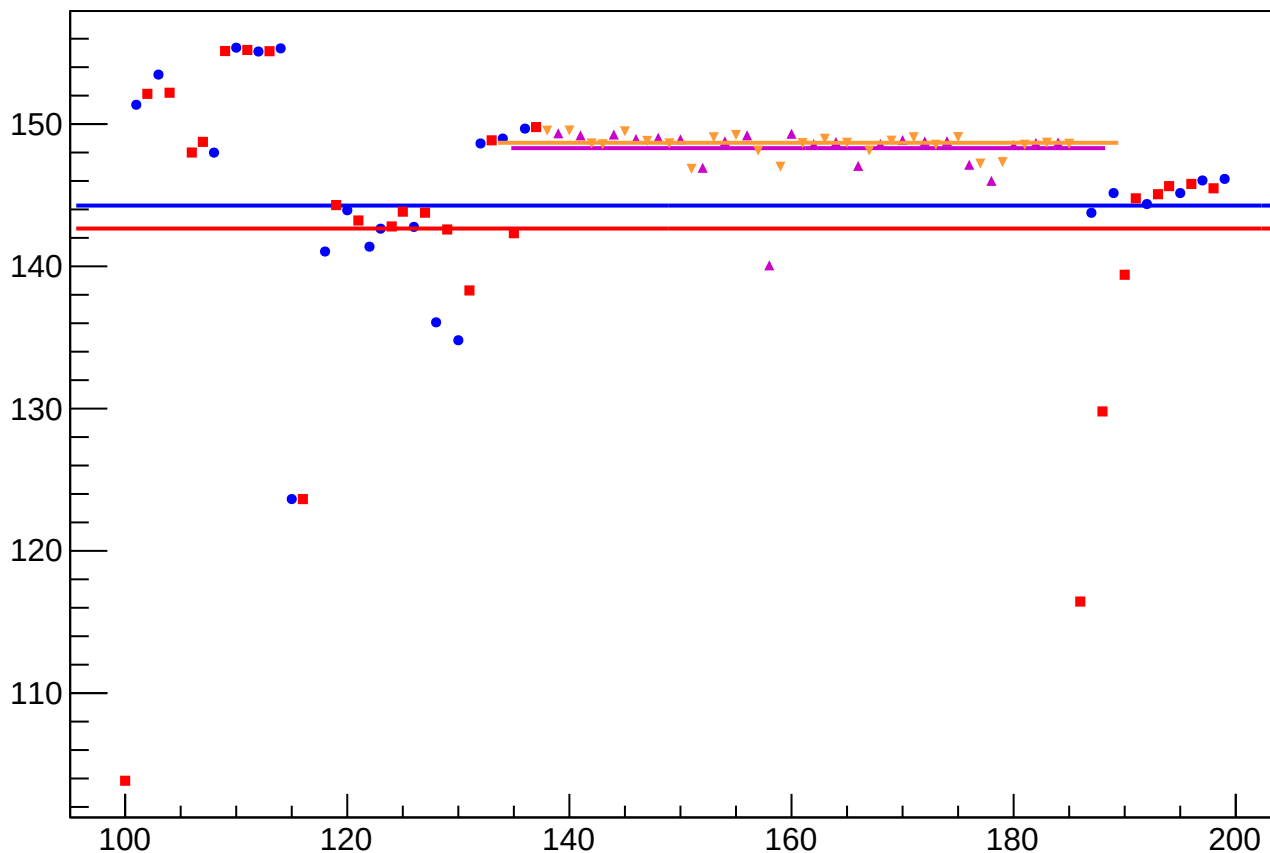
Right: 0.352+/-0.000 χ^2/NDF : 3793900.3/49

In: 0.396+/-0.000 χ^2/NDF :4014014.5/45

Out: 0.392+/-0.000 χ^2/NDF :4213375.5/51

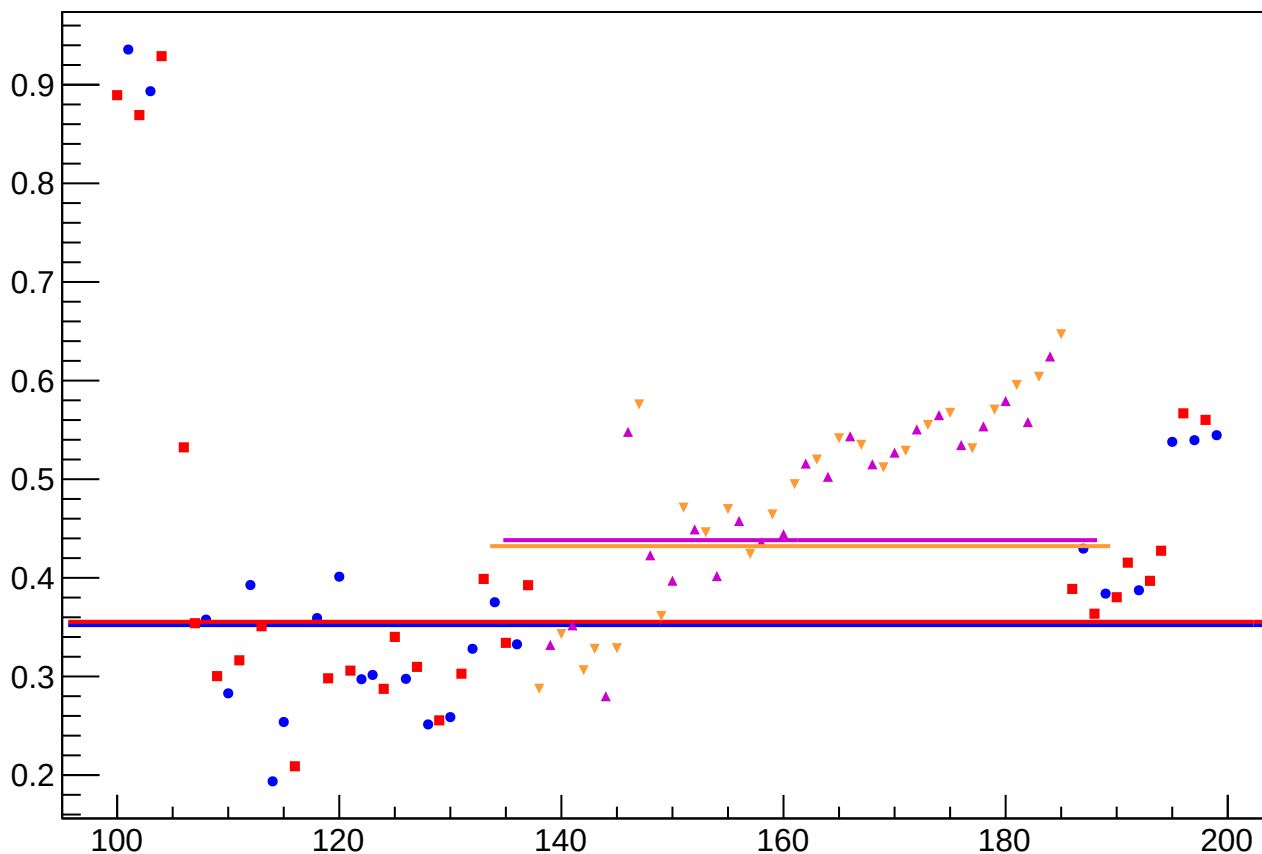
All: 0.394+/-0.000 χ^2/NDF : 8228994.8/97

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: 143.410 $\pm$ 0.000	χ^2 /NDF: 10917507841.7/49
Right Out: 142.658 $\pm$ 0.000	χ^2 /NDF: 7297733981.3/26	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: 145.822 $\pm$ 0.000	χ^2 /NDF: 8918437722.0/51
		All: 146.123 $\pm$ 0.000	χ^2 /NDF: 13437143853.0/100

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: 0.355 $\pm$ 0.000 χ^2 /NDF: 1831961.1/26

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

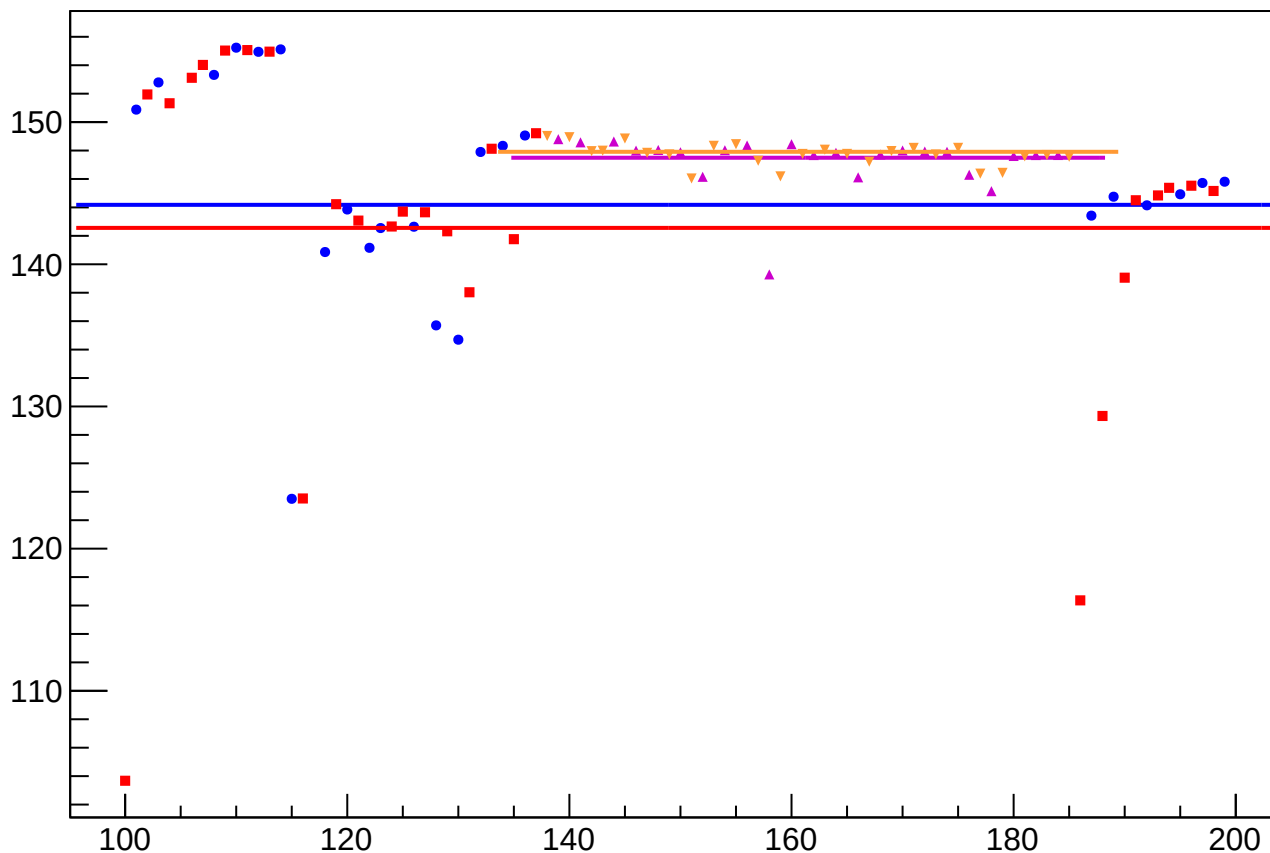
Right: 0.354 $\pm$ 0.000 χ^2 /NDF: 3803004.3/49

In: 0.399 $\pm$ 0.000 χ^2 /NDF:4067829.7/45

Out: 0.396 $\pm$ 0.000 χ^2 /NDF:4268550.0/51

All: 0.397 $\pm$ 0.000 χ^2 /NDF: 8337871.5/97

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.181 $\pm$ 0.000 χ^2 /NDF: 3681941982.7/22

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.560 $\pm$ 0.000 χ^2 /NDF: 7735827387.6/26

Left In: 147.493 $\pm$ 0.000 χ^2 /NDF: 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2 /NDF: 416149781.4/47

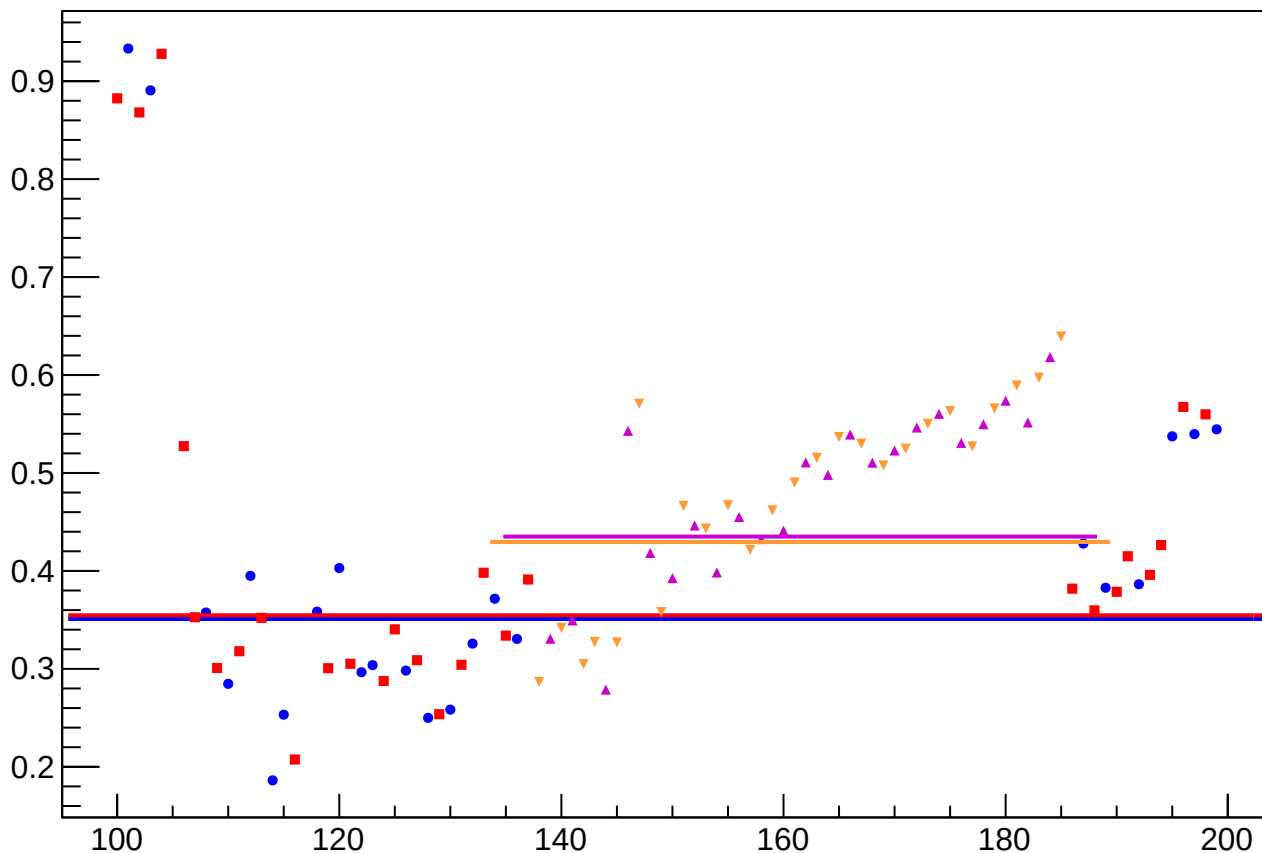
Right: 143.315 $\pm$ 0.000 χ^2 /NDF: 11518937228.9/49

In: 145.982 $\pm$ 0.000 χ^2 /NDF: 4455791717.0/45

Out: 145.380 $\pm$ 0.000 χ^2 /NDF: 9046627026.9/51

All: 145.666 $\pm$ 0.000 χ^2 /NDF: 13532511409.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.351+/-0.000 χ^2/NDF : 1990074.5/22

Left Out: 0.430+/-0.000 χ^2/NDF :1895701.4/24

Right Out: 0.355+/-0.000 χ^2/NDF : 1831074.2/26

Left In: 0.435+/-0.000 χ^2/NDF :1502712.5/22

Left: 0.432+/-0.000 χ^2/NDF : 3401133.5/47

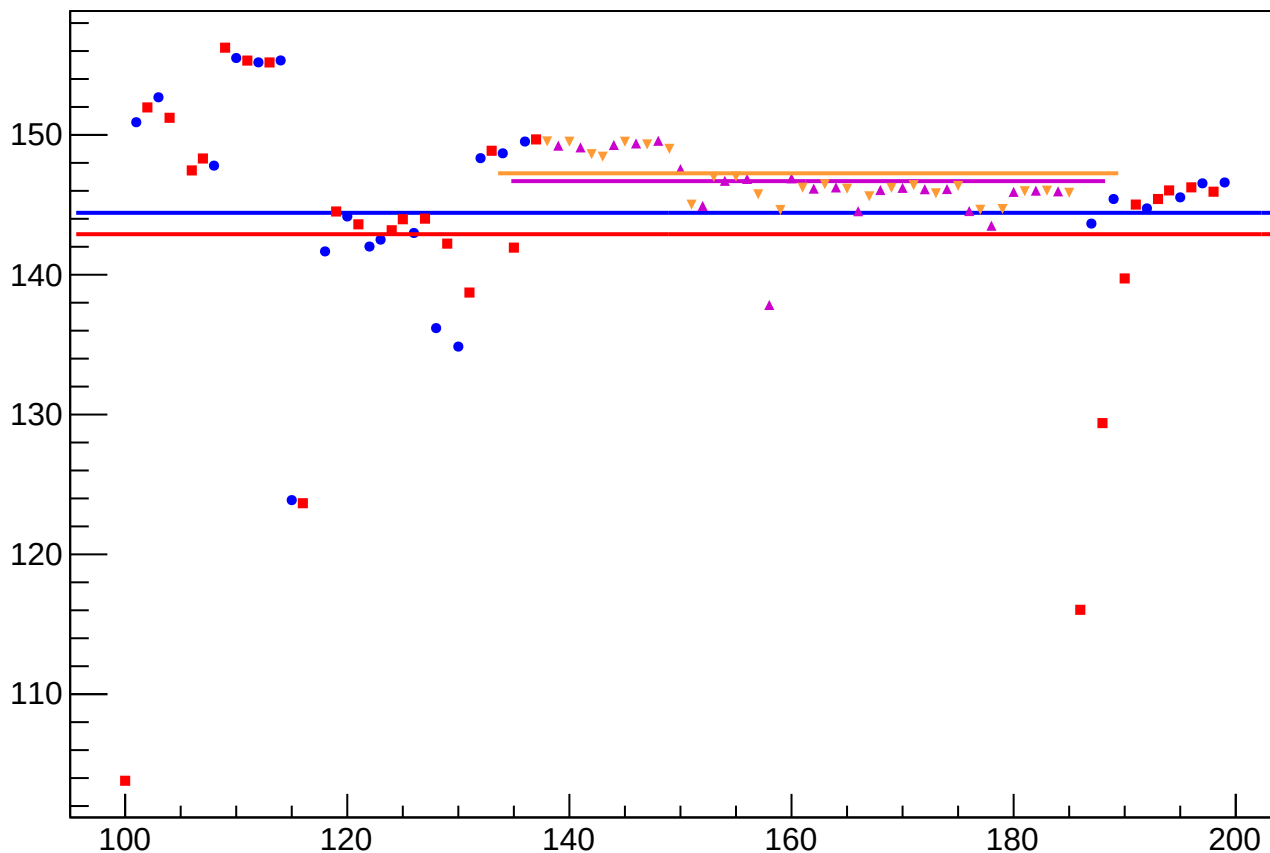
Right: 0.353+/-0.000 χ^2/NDF : 3822237.4/49

In: 0.397+/-0.000 χ^2/NDF :4047106.3/45

Out: 0.394+/-0.000 χ^2/NDF :4213888.1/51

All: 0.395+/-0.000 χ^2/NDF : 8262073.4/97

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: 142.900 $\pm$ 0.000 χ^2 /NDF: 7057381304.4/26

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

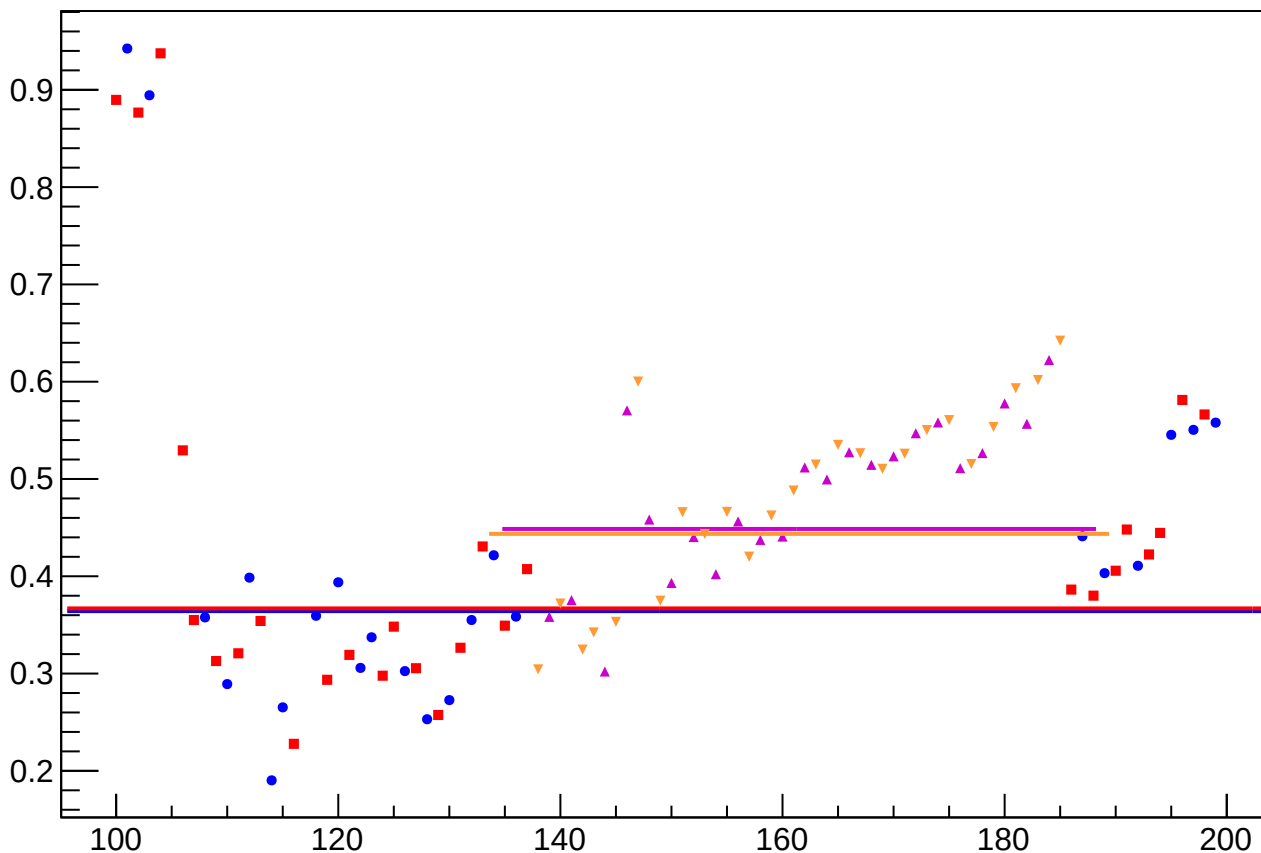
Right: 143.610 $\pm$ 0.000 χ^2 /NDF: 10338020678.0/49

In: 145.675 $\pm$ 0.000 χ^2 /NDF: 3943684964.6/45

Out: 145.212 $\pm$ 0.000 χ^2 /NDF: 8094296224.0/51

All: 145.432 $\pm$ 0.000 χ^2 /NDF: 12054688337.0/100

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: 0.367 $\pm$ 0.000 χ^2 /NDF: 1800952.5/26

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

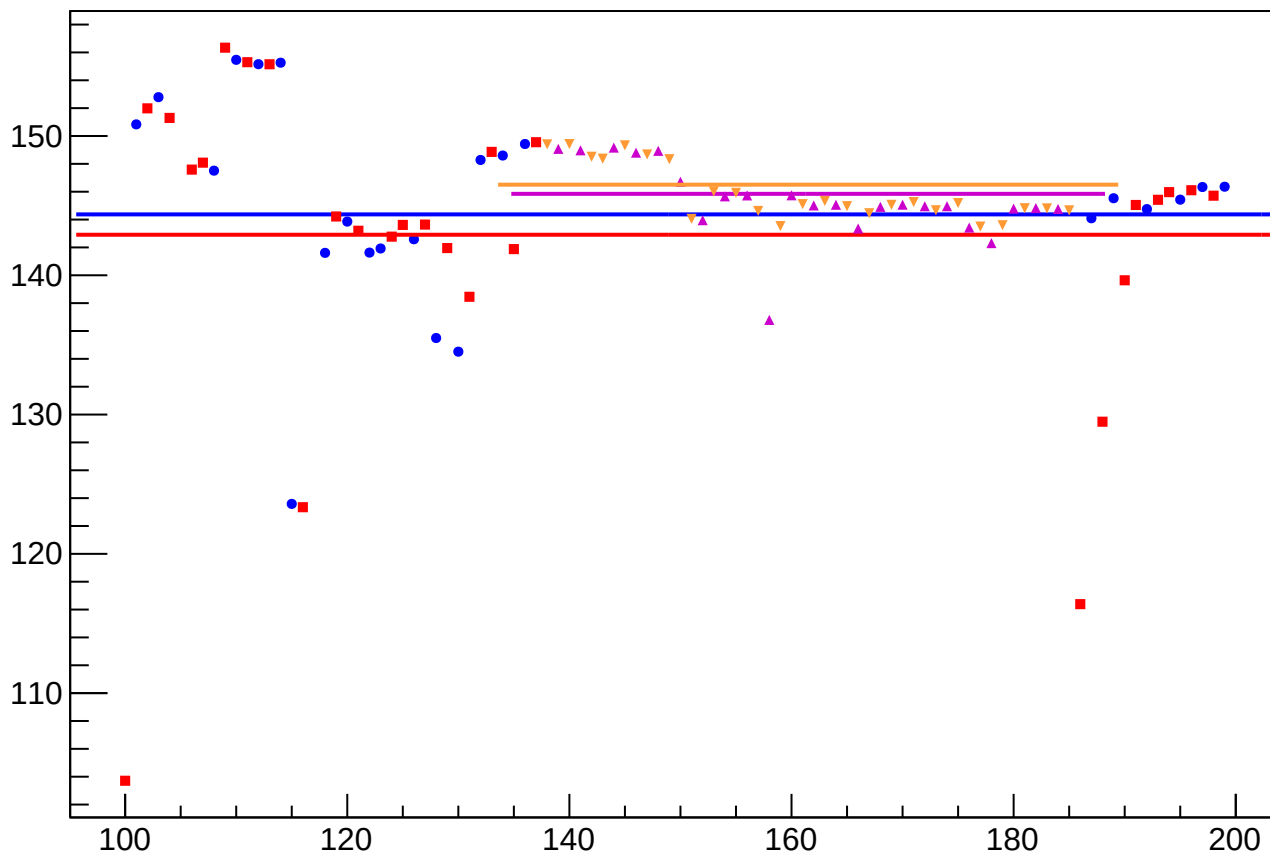
Right: 0.366 $\pm$ 0.000 χ^2 /NDF: 3751952.0/49

In: 0.411 $\pm$ 0.000 χ^2 /NDF:3606687.2/45

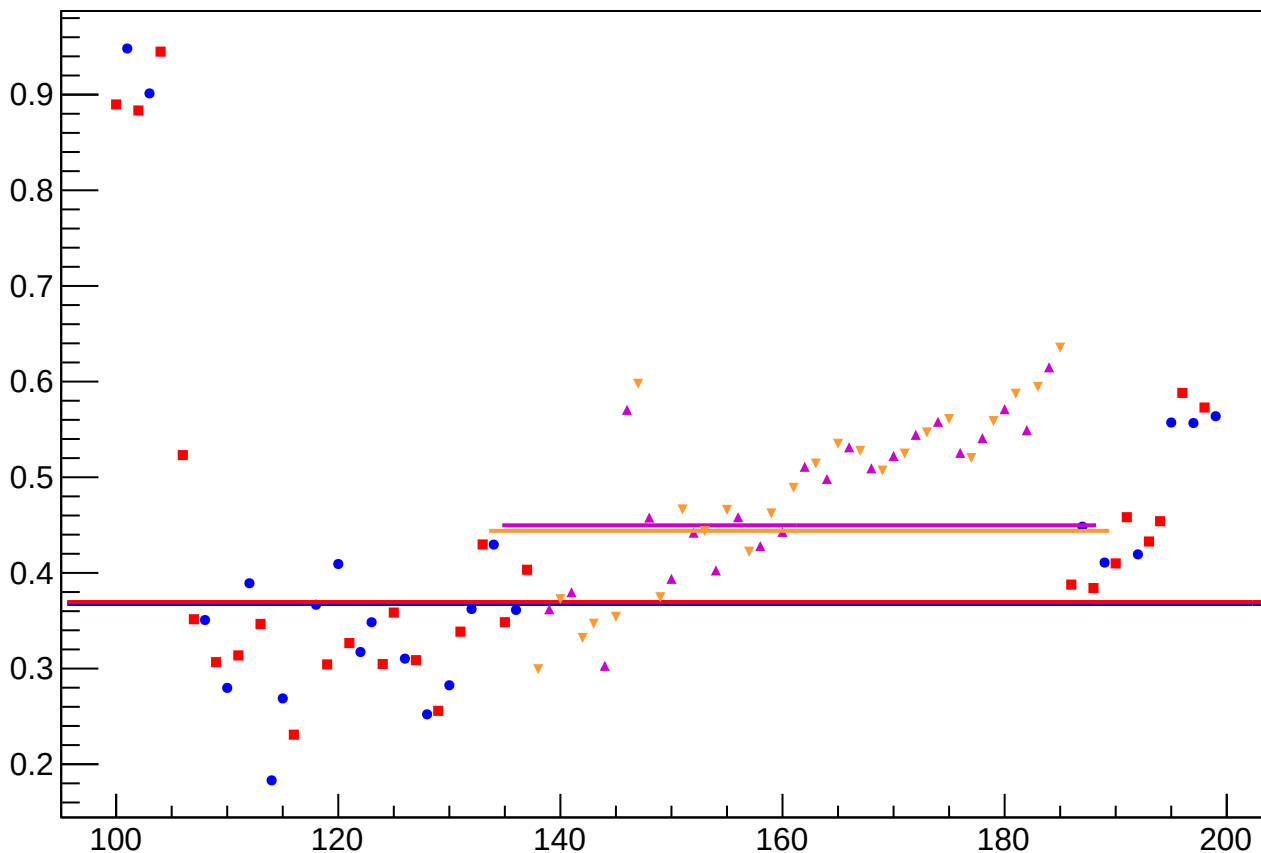
Out: 0.408 $\pm$ 0.000 χ^2 /NDF:3764245.4/51

All: 0.409 $\pm$ 0.000 χ^2 /NDF: 7372334.9/97

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.368+/-0.000 χ^2/NDF : 1987897.8/22

Left Out: 0.444+/-0.000 χ^2/NDF :1463293.5/24

Right Out: 0.370+/-0.000 χ^2/NDF : 1816806.9/26

Left In: 0.450+/-0.000 χ^2/NDF :1105405.0/22

Left: 0.447+/-0.000 χ^2/NDF : 2571486.5/47

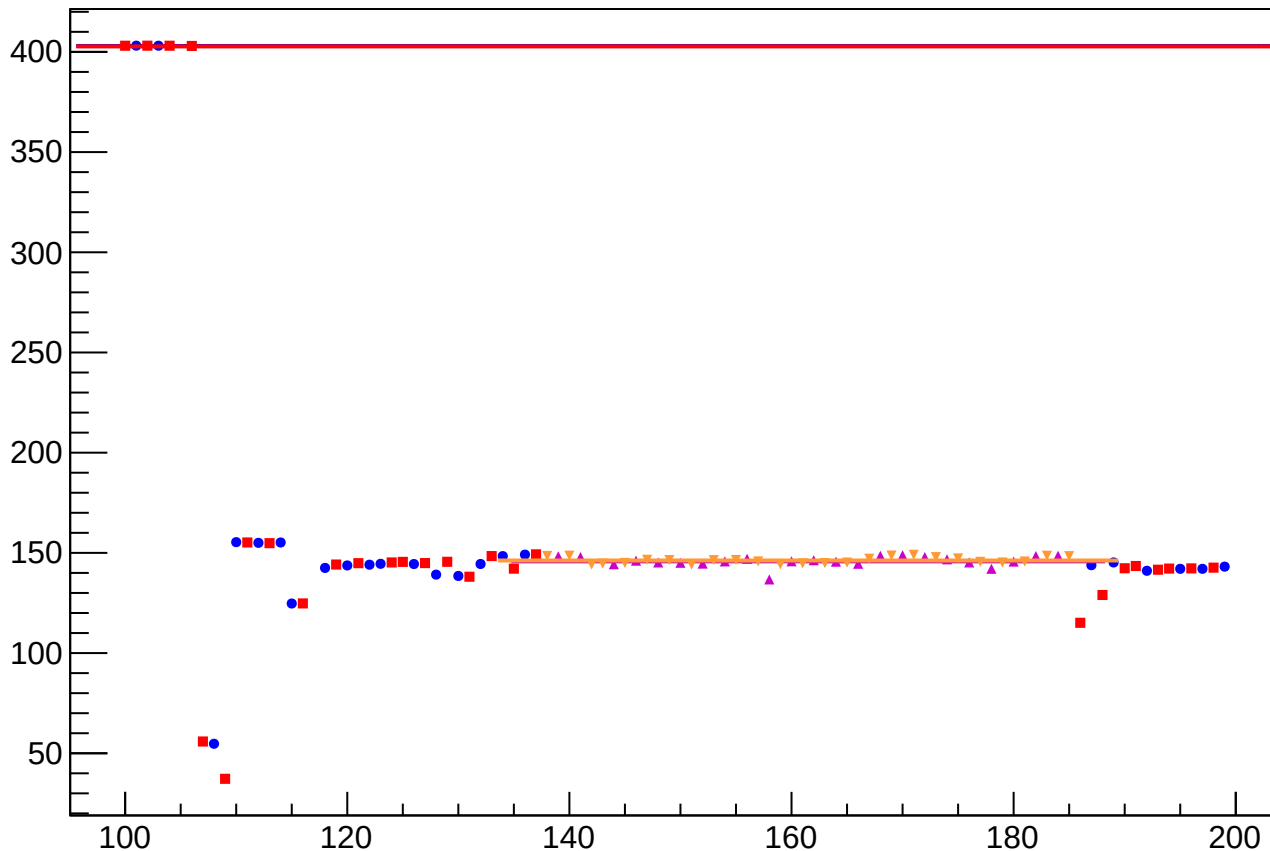
Right: 0.369+/-0.000 χ^2/NDF : 3804995.4/49

In: 0.413+/-0.000 χ^2/NDF :3582545.5/45

Out: 0.409+/-0.000 χ^2/NDF :3727861.7/51

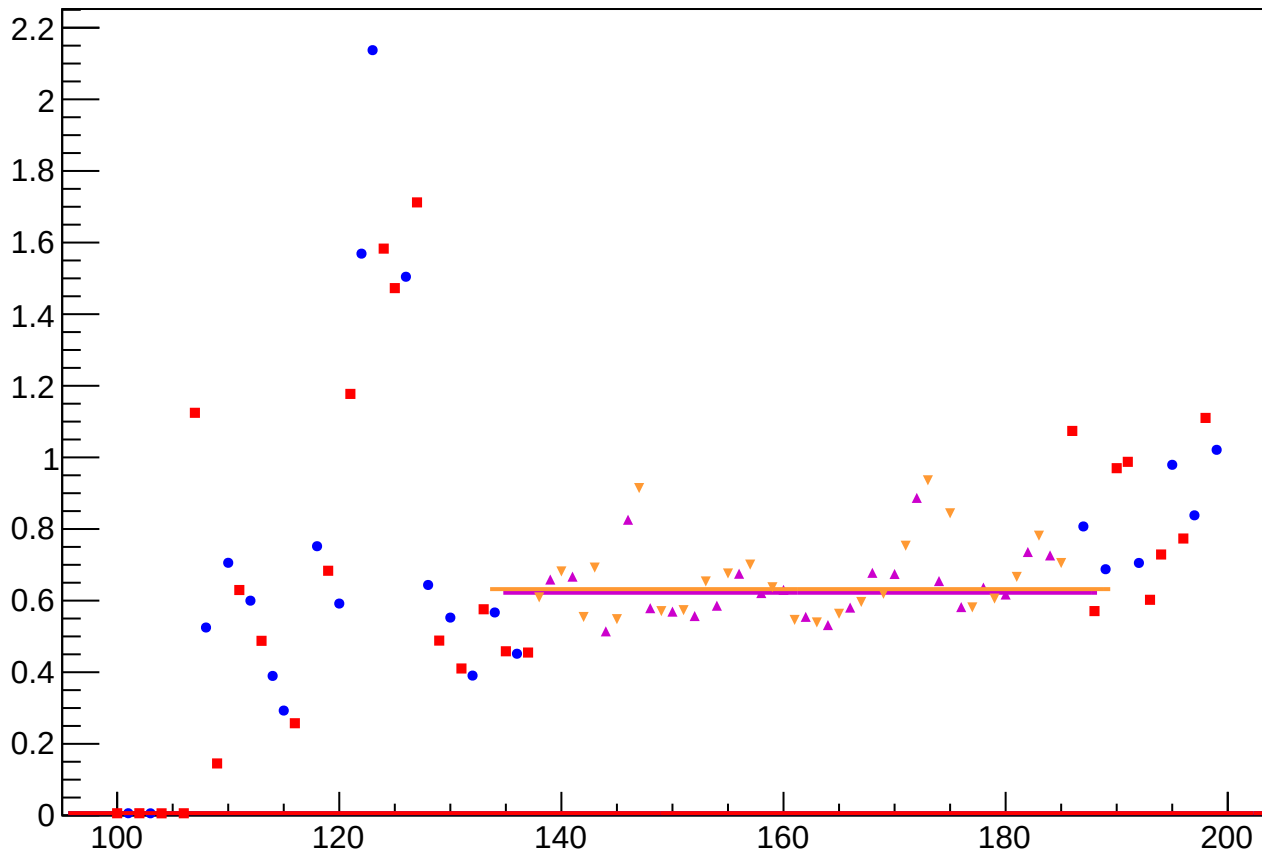
All: 0.411+/-0.000 χ^2/NDF : 7312552.7/97

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: 402.825+/-0.000	χ^2/NDF : 5036652267335.7
Right Out: 402.741+/-0.000	χ^2/NDF : 3646688415465.9/26	In: 402.628+/-0.000	χ^2/NDF : 3738793204813.2/45
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.479+/-0.000	χ^2/NDF : 6014997867837.8/5
		All: 402.549+/-0.000	χ^2/NDF : 975415896446

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 : 17279107.9/26

Left In: 0.622+/-0.000 χ^2/NDF : 404479.0/22

Left: 0.627+/-0.000 χ^2/NDF : 1022337.9/47

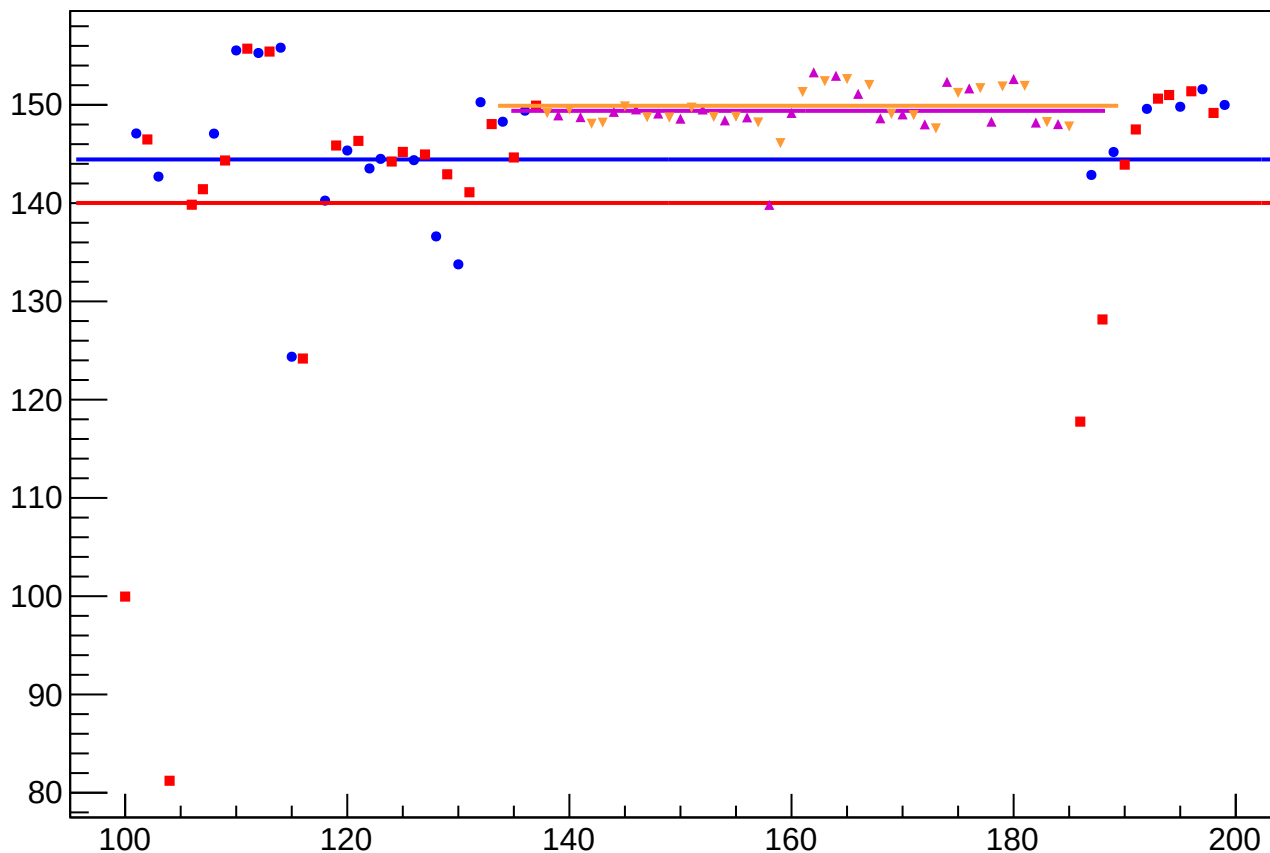
Right: 0.006+/-0.000 χ^2/NDF : 32252699.0/49

In: 0.007+/-0.000 χ^2/NDF : 42294279.5/45

Out: 0.007+/-0.000 χ^2/NDF : 46063651.2/51

All: 0.007+/-0.000 χ^2/NDF : 88357967.3/97

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: 141.885 $\pm$ 0.000

χ^2 /NDF: 4390146726.3/49

Right Out: 140.016 $\pm$ 0.000

χ^2 /NDF: 2985310559.0/26

In: 148.130 $\pm$ 0.000

χ^2 /NDF: 1954128198.1/45

Out: 146.895 $\pm$ 0.000

χ^2 /NDF: 4665244406.1/51

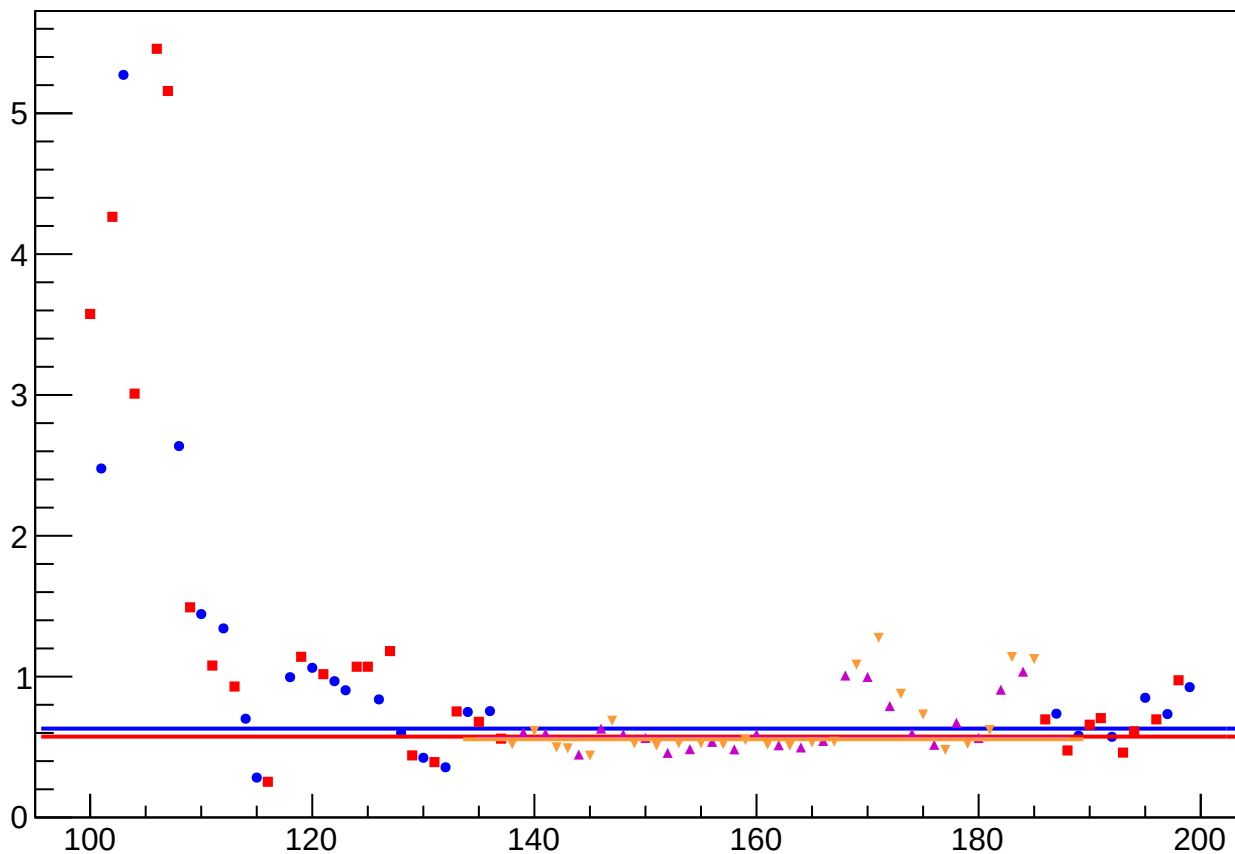
Left In: 149.391 $\pm$ 0.000

χ^2 /NDF: 437129920.4/22

All: 147.470 $\pm$ 0.000

χ^2 /NDF: 6671436250.0

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.631+/-0.000 χ^2/NDF : 3798659.8/22

Left Out: 0.555+/-0.000 χ^2/NDF : 1773380.1/24

Right Out: 0.574+/-0.000 χ^2/NDF : 5114236.2/26

Left In: 0.562+/-0.000 χ^2/NDF : 1311075.2/22

Left: 0.559+/-0.000 χ^2/NDF : 3086646.6/47

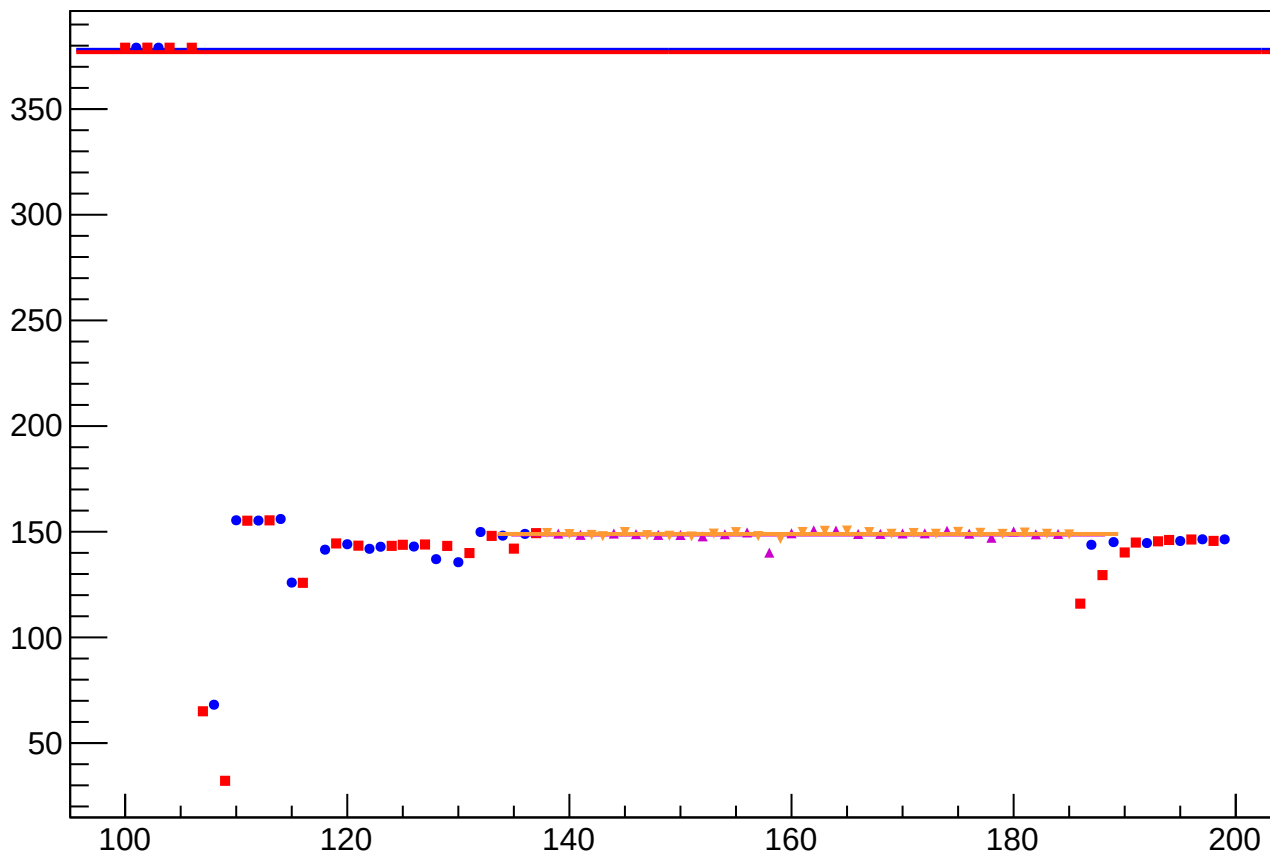
Right: 0.598+/-0.000 χ^2/NDF : 8974077.0/49

In: 0.580+/-0.000 χ^2/NDF : 5224804.2/45

Out: 0.561+/-0.000 χ^2/NDF : 6898253.8/51

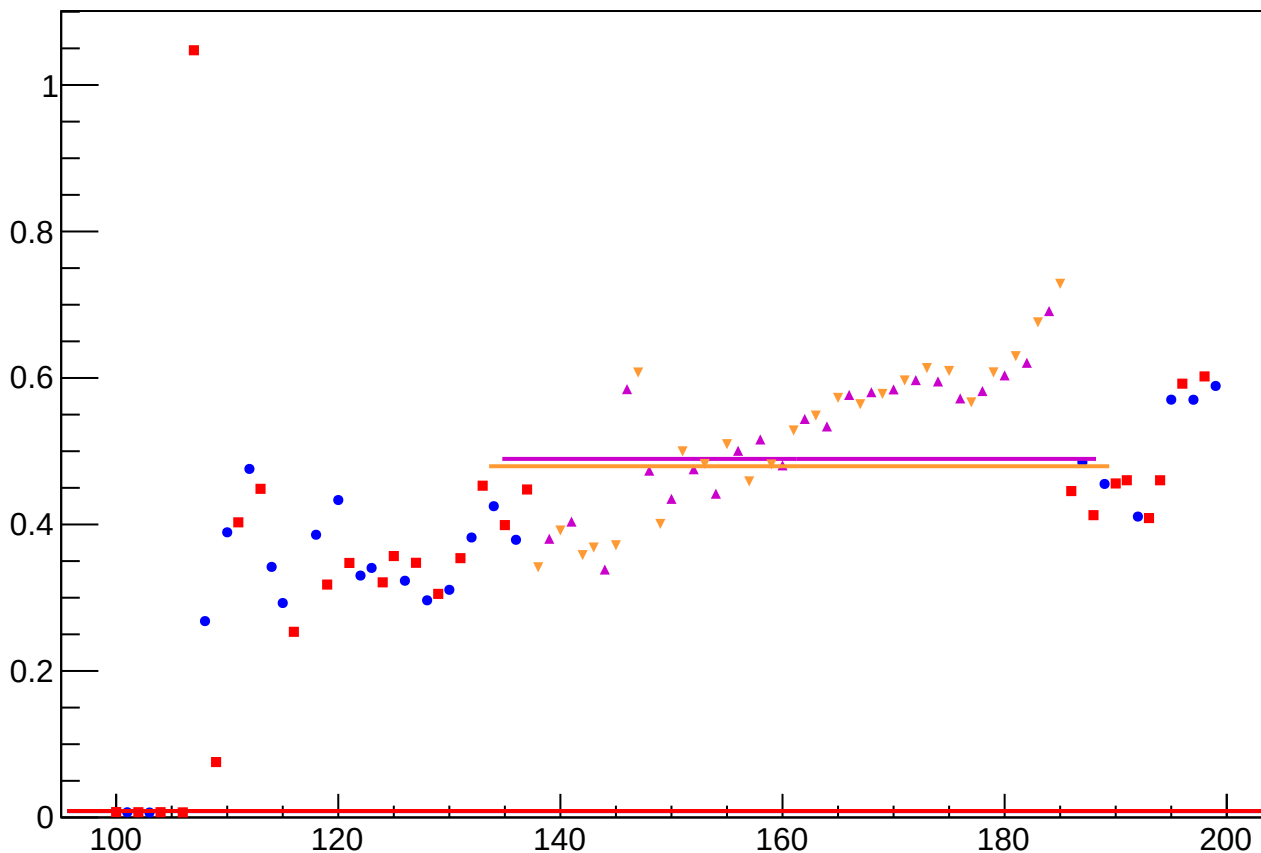
All: 0.570+/-0.000 χ^2/NDF : 12146629.7/97

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: 377.454 $\pm$ 0.000	χ^2 /NDF: 12812507495409.6
Right Out: 376.944 $\pm$ 0.000	χ^2 /NDF: 9527831173287.9/26	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: 375.827 $\pm$ 0.000	χ^2 /NDF: 13400290092436.5
		All: 376.308 $\pm$ 0.000	χ^2 /NDF: 202904352137.1

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 : 18821796.2/26

Left In: 0.490+/-0.000 χ^2/NDF :1090532.3/22

Left: 0.484+/-0.000 χ^2/NDF : 2616511.3/47

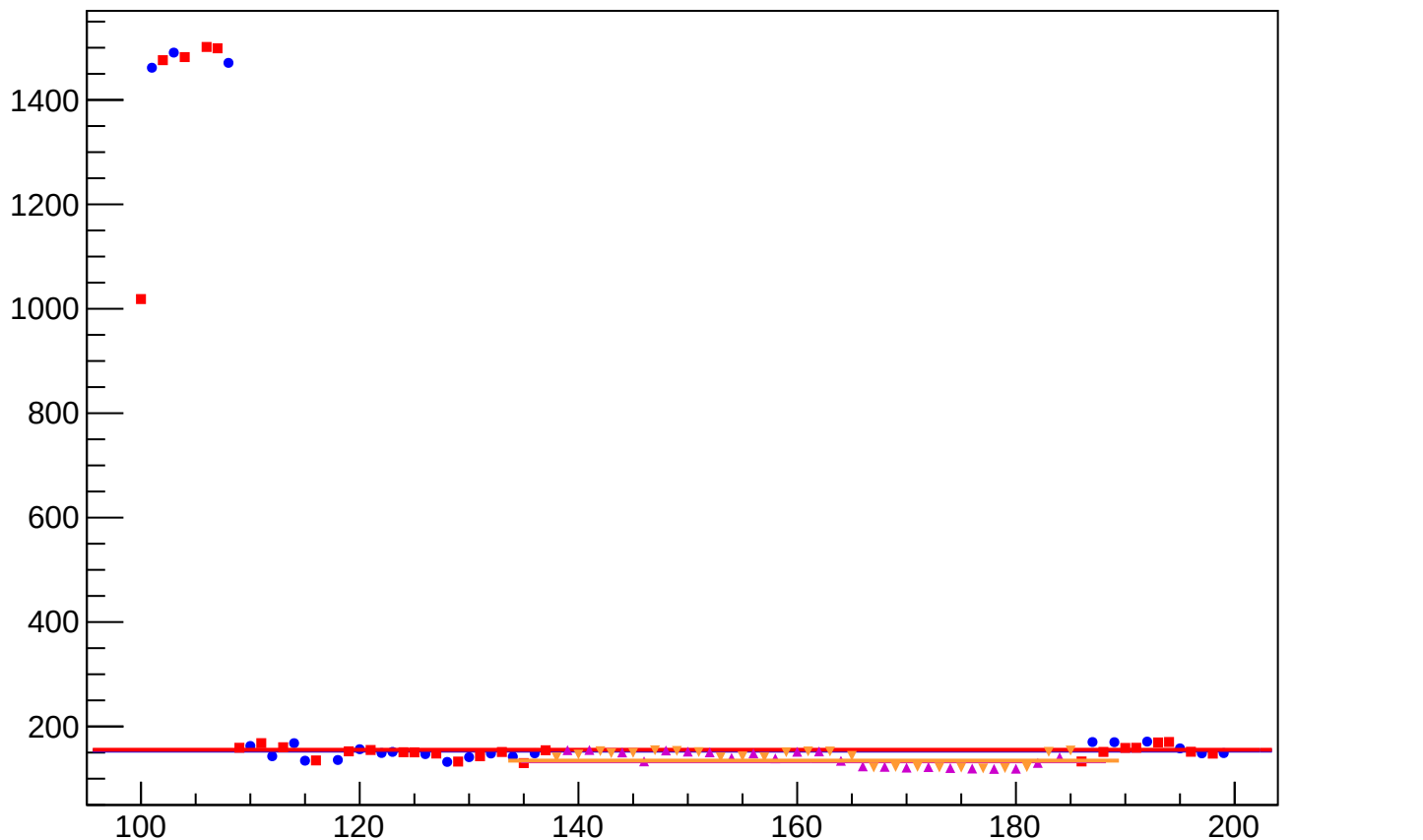
Right: 0.009+/-0.000 χ^2/NDF : 35742547.8/49

In: 0.011+/-0.000 χ^2/NDF :49715060.2/45

Out: 0.011+/-0.000 χ^2/NDF :53348192.8/51

All: 0.011+/-0.000 χ^2/NDF : 103063256.1/97

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: 155.356 $\pm$ 0.000 χ^2 /NDF: 34741688089.9/26

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

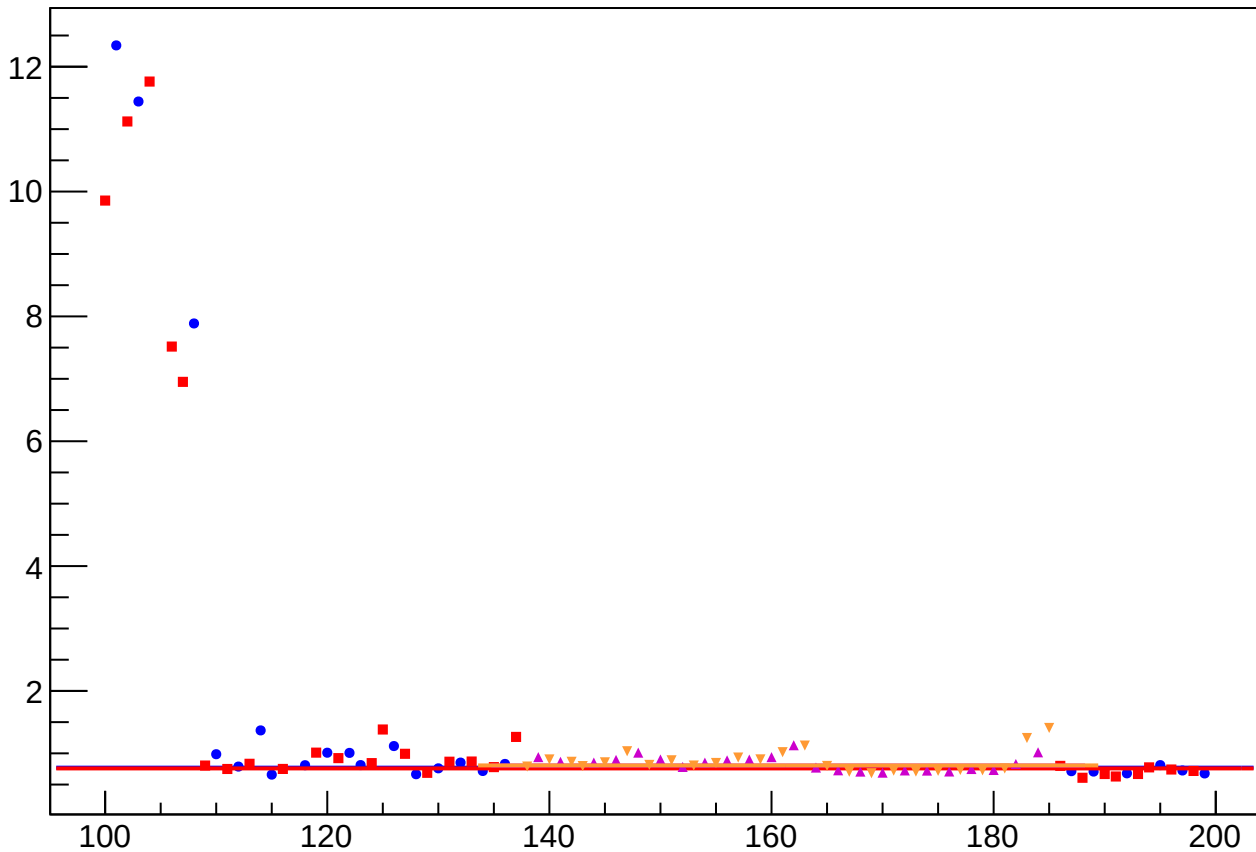
Right: 154.628 $\pm$ 0.000 χ^2 /NDF: 60238241807.0/49

In: 140.349 $\pm$ 0.000 χ^2 /NDF: 33133637456.3/45

Out: 142.501 $\pm$ 0.000 χ^2 /NDF: 43032703657.0/51

All: 141.474 $\pm$ 0.000 χ^2 /NDF: 76251148704.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.771+/-0.000 χ^2/NDF : 2804860.9/22

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.759+/-0.000 χ^2/NDF : 3130341.7/26

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

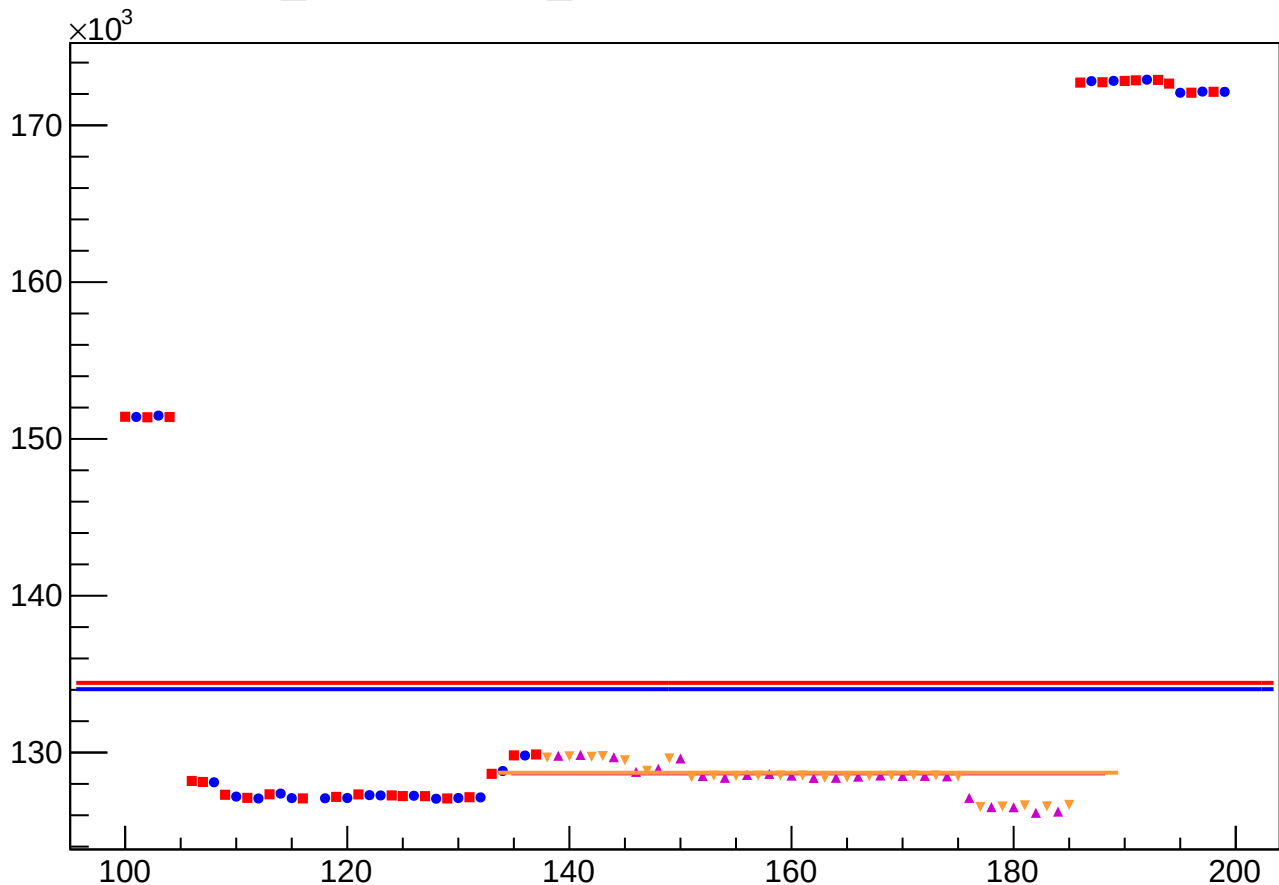
Right: 0.764+/-0.000 χ^2/NDF : 5937166.1/49

In: 0.793+/-0.000 χ^2/NDF : 3302569.4/45

Out: 0.788+/-0.000 χ^2/NDF : 3876358.6/51

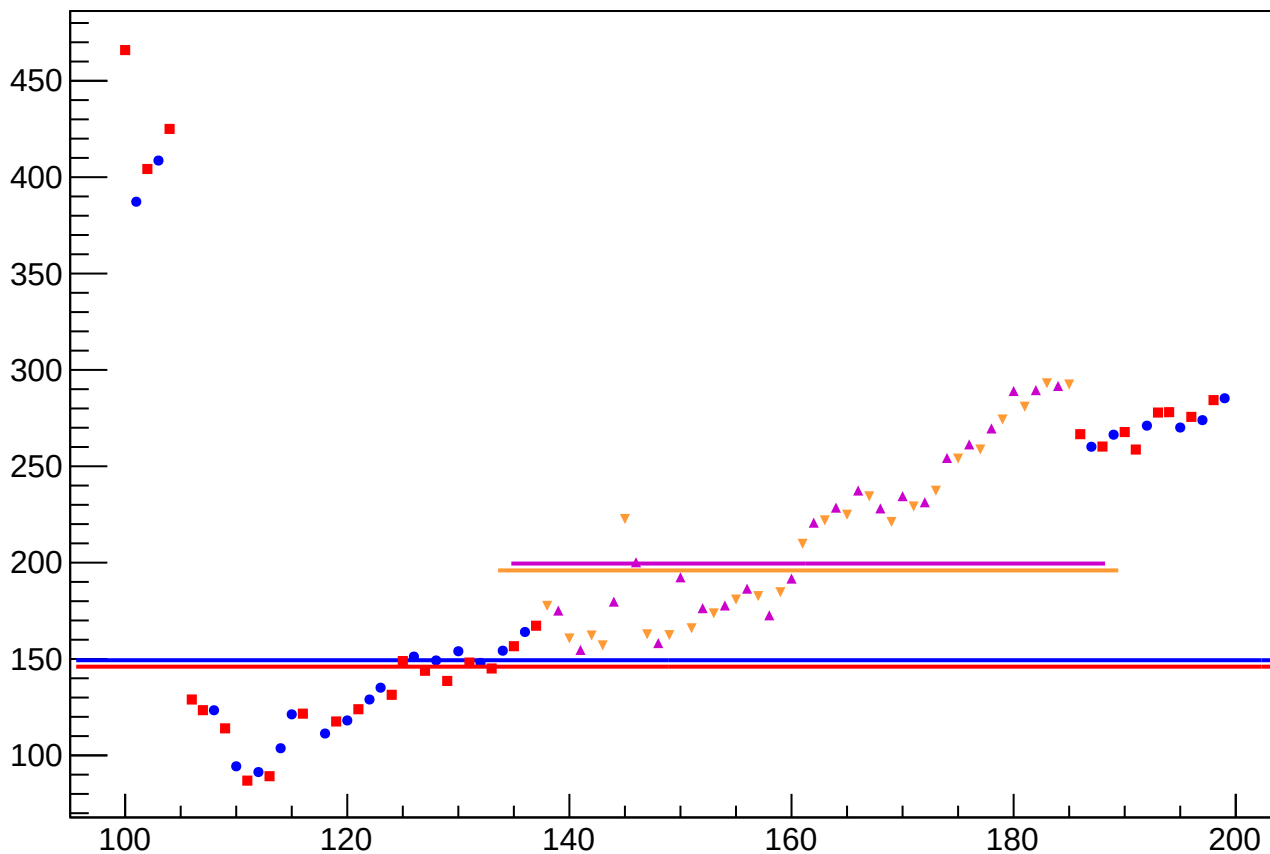
All: 0.791+/-0.000 χ^2/NDF : 7179690.4/97

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: 134444.856 $\pm$ 0.047 χ^2 /NDF: 118394005043.0/26
 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: 134260.321 $\pm$ 0.034 χ^2 /NDF: 212205695781
 In: 131249.599 $\pm$ 0.035 χ^2 /NDF: 99921406109.9/4
 Out: 131584.868 $\pm$ 0.033 χ^2 /NDF: 126302713767
 All: 131428.281 $\pm$ 0.024 χ^2 /NDF: 226272457

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: 146.026+/-0.033 χ^2/NDF : 4055662.3/26

Left In: 199.531+/-0.035 χ^2/NDF : 1175342.5/22

Left: 197.666+/-0.024 χ^2/NDF : 2497014.2/47

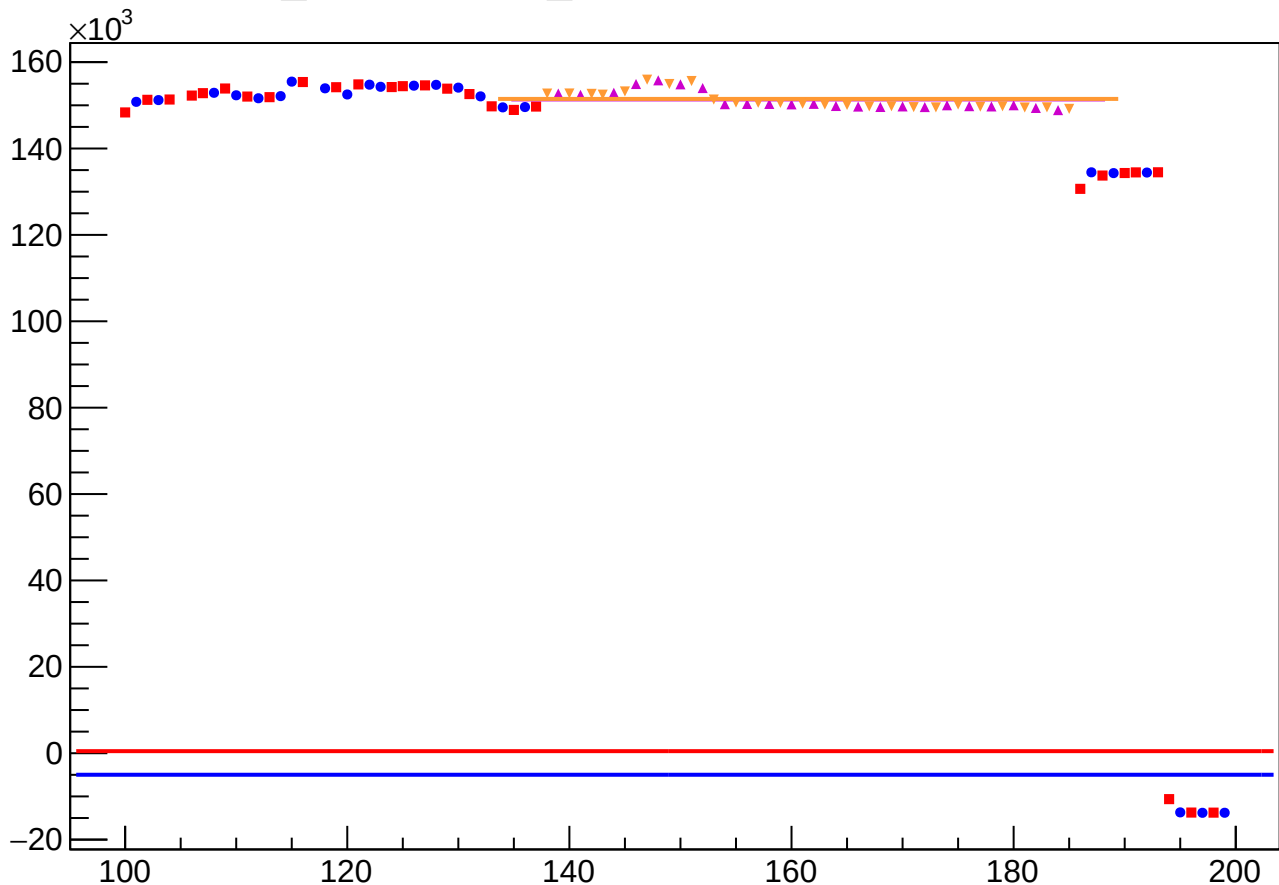
Right: 147.554+/-0.024 χ^2/NDF : 7413882.1/49

In: 175.440+/-0.025 χ^2/NDF : 5542242.9/45

Out: 170.946+/-0.023 χ^2/NDF : 6519833.5/51

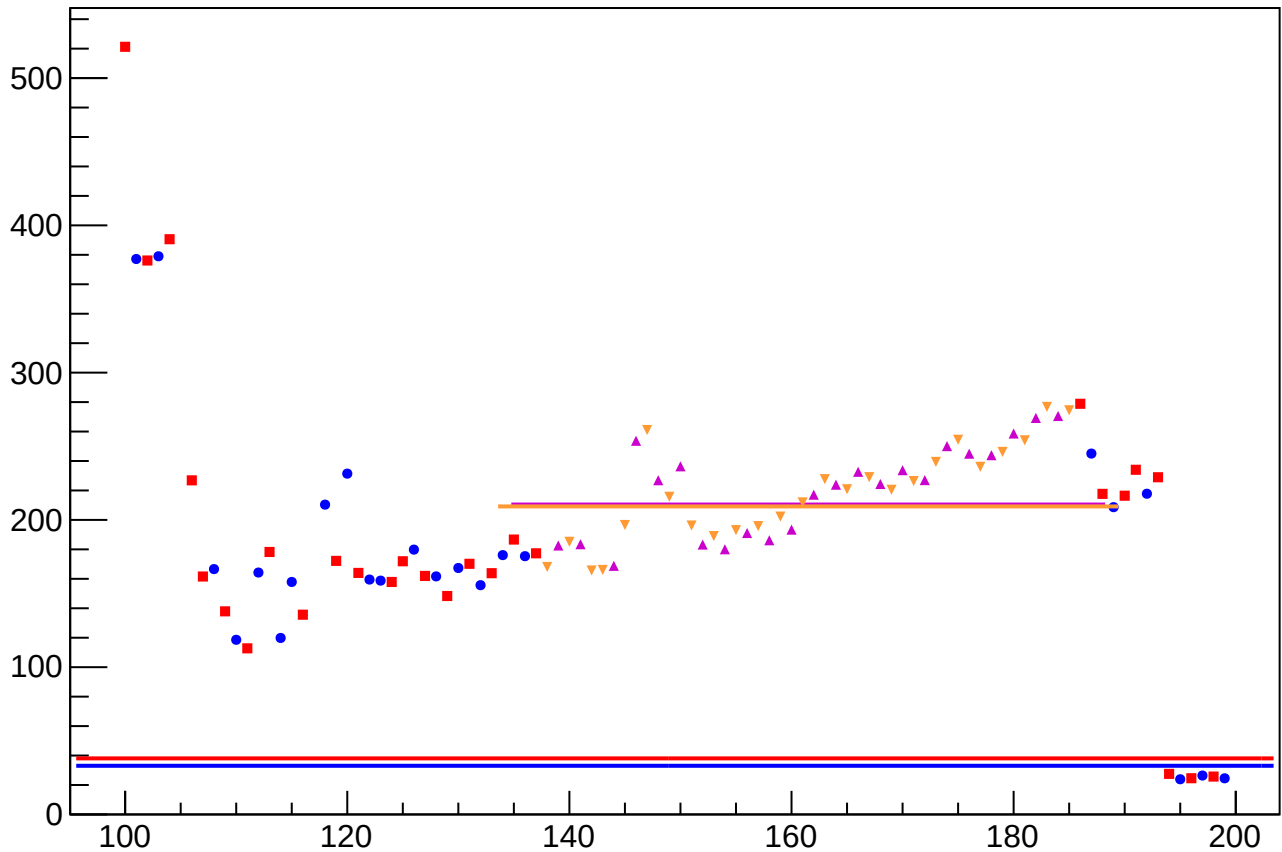
All: 173.045+/-0.017 χ^2/NDF : 12079445.2/97

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: 479.333 $\pm$ 0.017 χ^2 /NDF: 6730594909815.8/26
 Left In: 151362.440 $\pm$ 0.051 χ^2 /NDF: 1426782789.9/22
 Left: 151423.440 $\pm$ 0.036 χ^2 /NDF: 2913216467.1/22
 Right: -2568.472 $\pm$ 0.012 χ^2 /NDF: 1243800299521.4/22
 In: 8162.122 $\pm$ 0.015 χ^2 /NDF: 14186940136568.9/24
 Out: 17158.573 $\pm$ 0.016 χ^2 /NDF: 15019302123618.9/24
 All: 12204.813 $\pm$ 0.011 χ^2 /NDF: 2937109367.1/22

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 33.049 $\pm$ 0.011 χ^2 /NDF: 10990531.0/22

Left Out: 209.156 $\pm$ 0.035 χ^2 /NDF: 710094.9/24

Right Out: 38.075 $\pm$ 0.012 χ^2 /NDF: 12636594.7/26

Left In: 210.431 $\pm$ 0.036 χ^2 /NDF: 684015.0/22

Left: 209.771 $\pm$ 0.025 χ^2 /NDF: 1394750.9/47

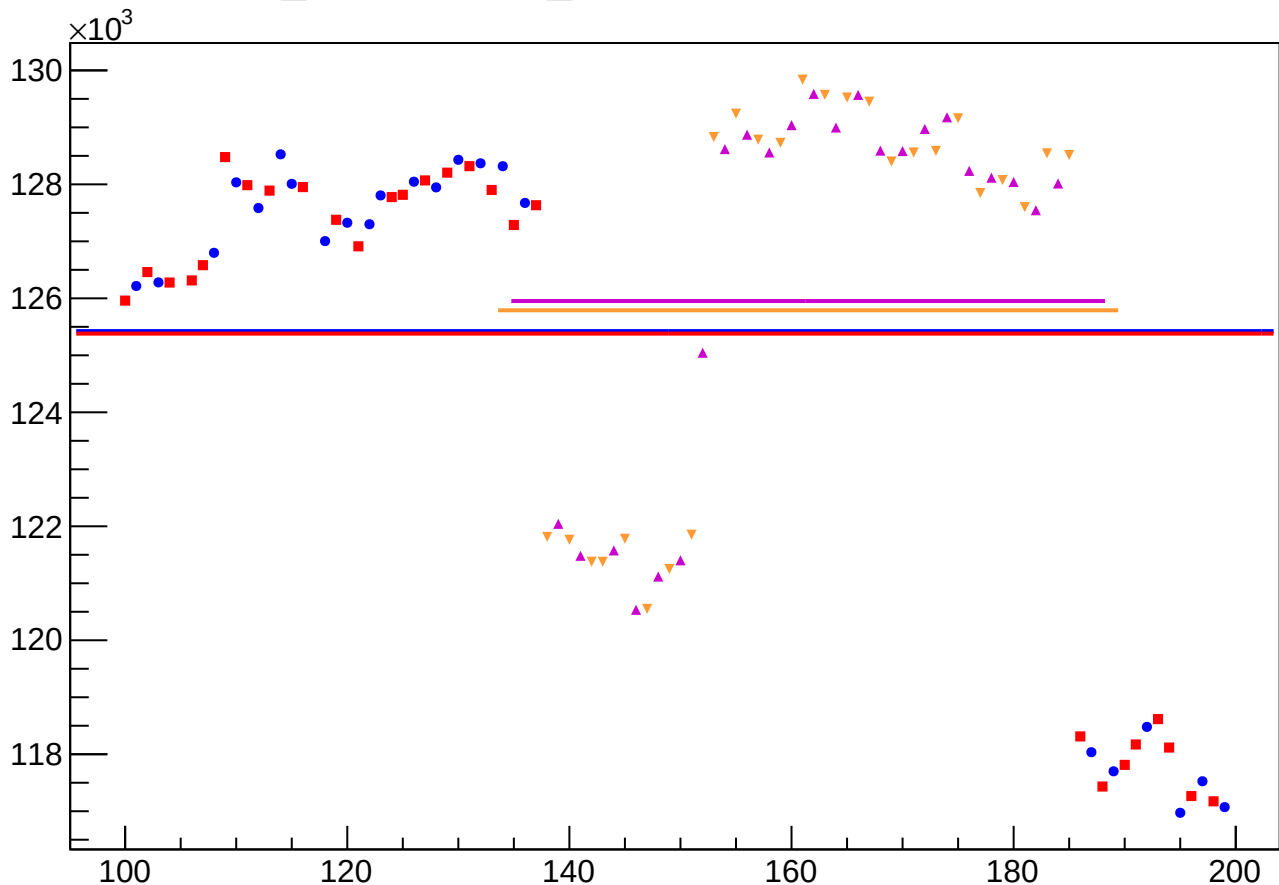
Right: 35.271 $\pm$ 0.008 χ^2 /NDF: 23719870.3/49

In: 47.964 $\pm$ 0.011 χ^2 /NDF: 33641412.3/45

Out: 56.972 $\pm$ 0.012 χ^2 /NDF: 34622249.9/51

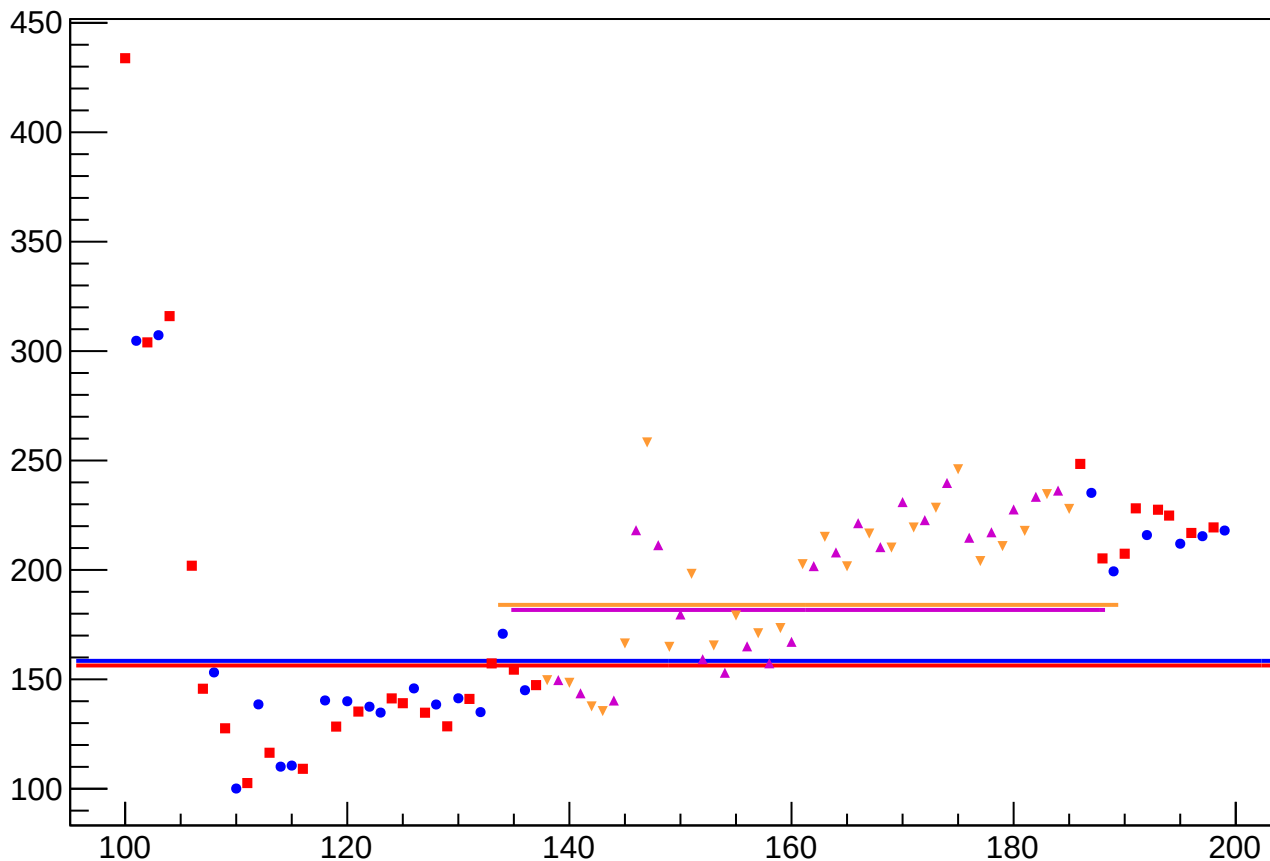
All: 52.012 $\pm$ 0.008 χ^2 /NDF: 68594245.3/97

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 125425.074 $\pm$ 0.051	χ^2 /NDF: 6939438503.3/22	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/22
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 125401.218 $\pm$ 0.035	χ^2 /NDF: 14938600338.9/24
Right Out: 125380.663 $\pm$ 0.048	χ^2 /NDF: 7998760771.3/26	In: 125725.553 $\pm$ 0.034	χ^2 /NDF: 12841224772.6/26
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 125602.107 $\pm$ 0.032	χ^2 /NDF: 14782907113.7/22
		All: 125661.245 $\pm$ 0.023	χ^2 /NDF: 276311167.5/22

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: 156.338 $\pm$ 0.034 χ^2 /NDF: 2052697.7/26

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

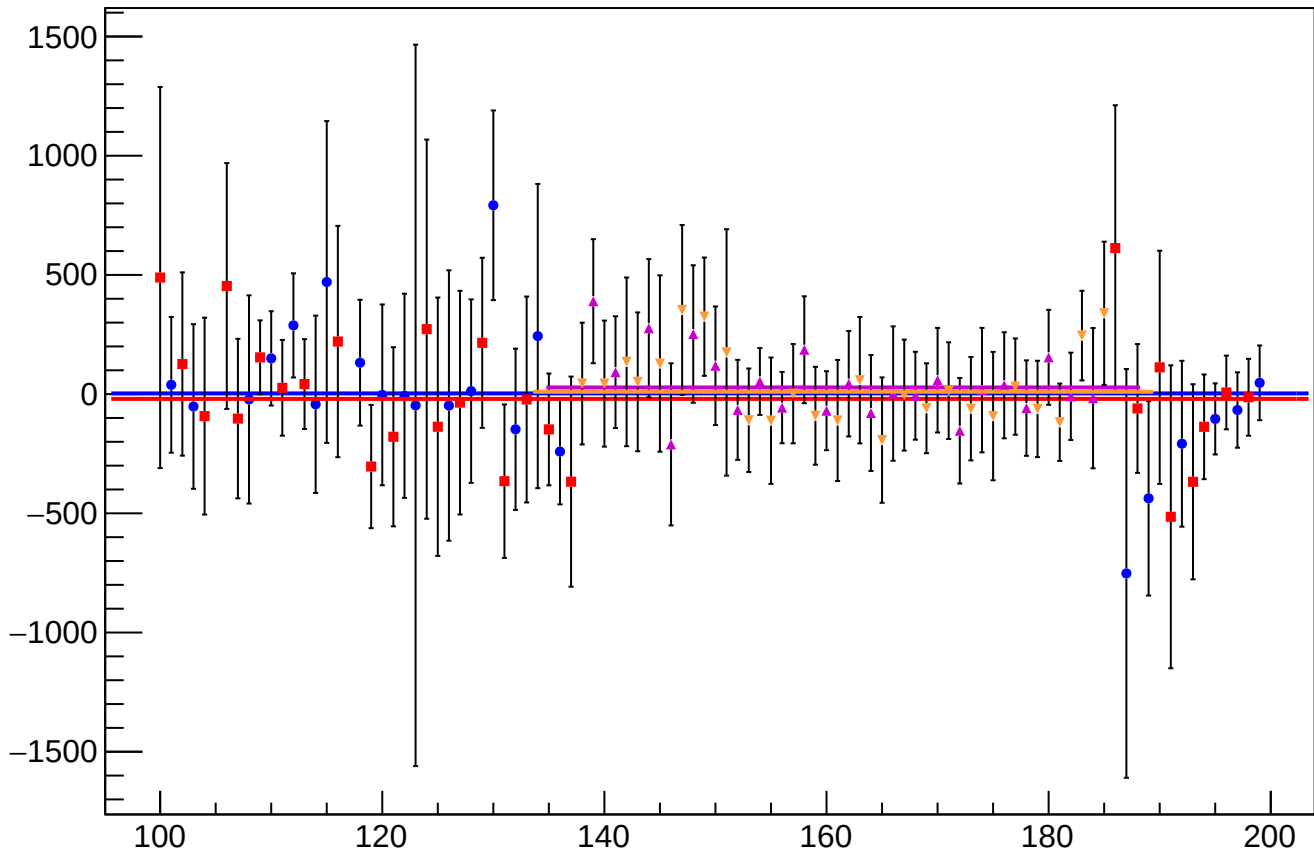
Right: 157.315 $\pm$ 0.025 χ^2 /NDF: 3577668.5/49

In: 171.704 $\pm$ 0.024 χ^2 /NDF: 2872804.7/45

Out: 171.314 $\pm$ 0.023 χ^2 /NDF: 3543668.4/51

All: 171.501 $\pm$ 0.016 χ^2 /NDF: 6416612.6/97

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: -19.987 ± 54.745 χ^2/NDF : 10.1/26

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

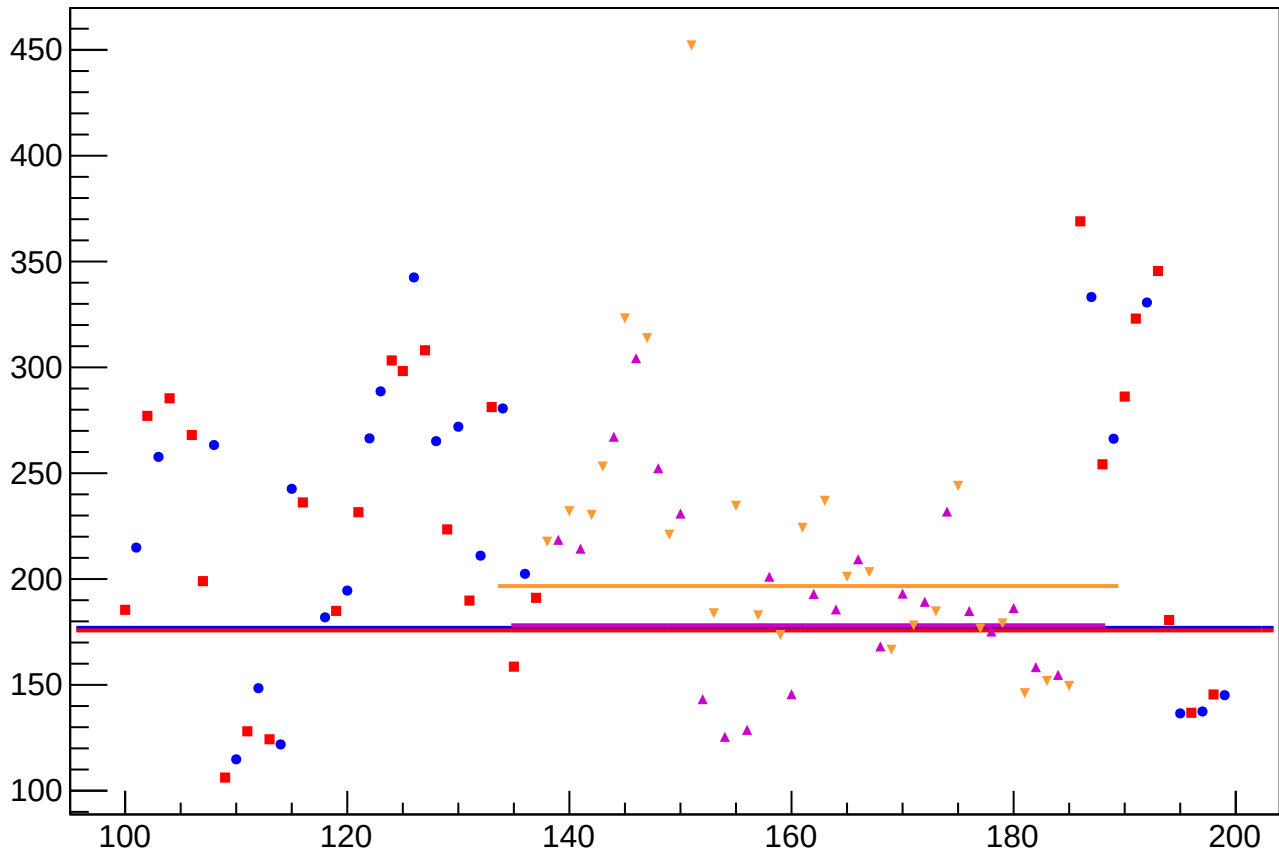
Right: -9.127 ± 39.780 χ^2/NDF : 21.8/49

In: 18.736 ± 35.319 χ^2/NDF : 18.7/45

Out: -2.831 ± 35.873 χ^2/NDF : 18.7/51

All: 8.120 ± 25.168 χ^2/NDF : 37.6/97

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: 175.732 $\pm$ 0.039 χ^2/NDF : 2709428.6/26

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

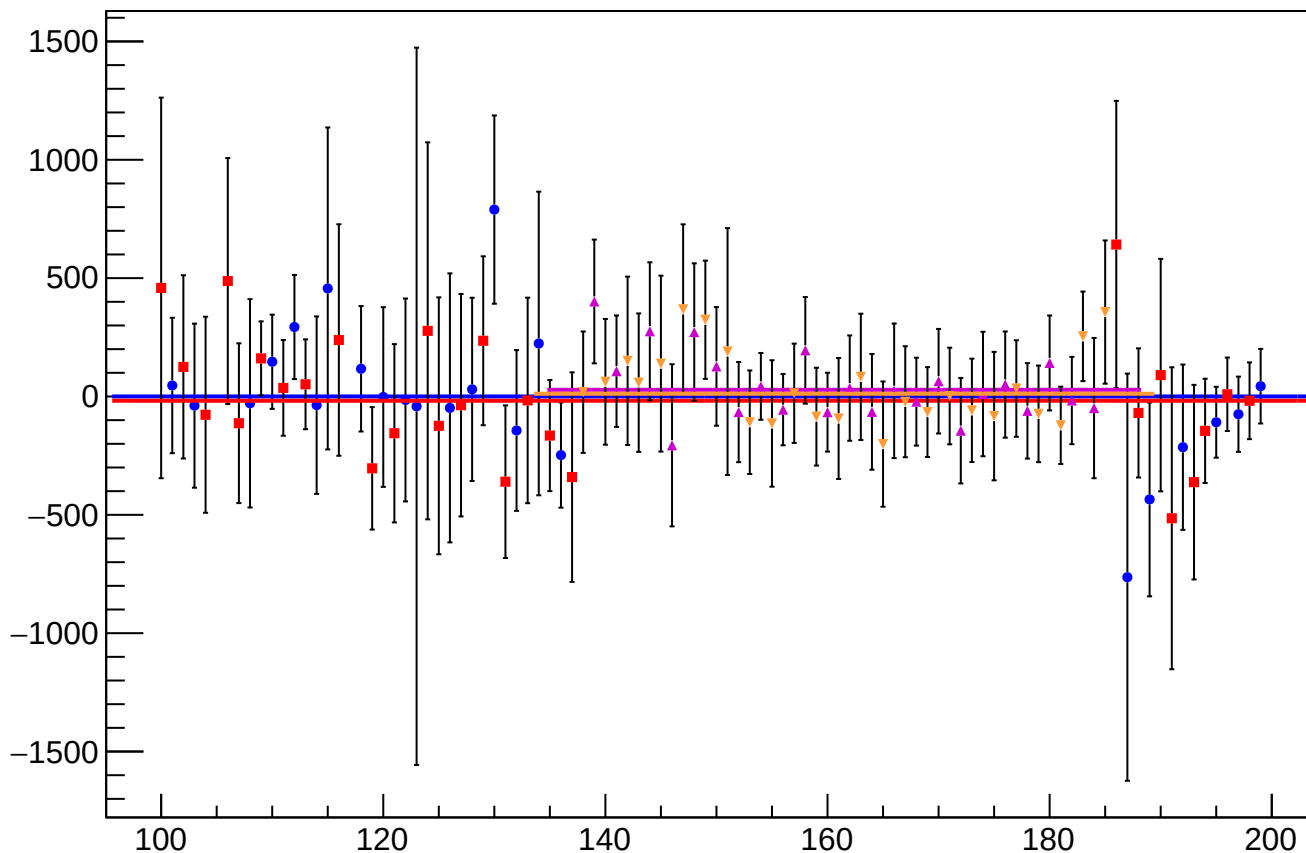
Right: 176.300 $\pm$ 0.028 χ^2/NDF : 4727018.6/49

In: 177.708 $\pm$ 0.025 χ^2/NDF : 3636668.4/45

Out: 187.686 $\pm$ 0.025 χ^2/NDF : 4659268.5/51

All: 182.620 $\pm$ 0.018 χ^2/NDF : 8374516.0/97

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: -17.962 ± 55.033 χ^2/NDF : 10.3/26

Left In: 28.280 ± 44.863 χ^2/NDF : 7.1/22

Left: 20.415 ± 32.718 χ^2/NDF : 16.0/47

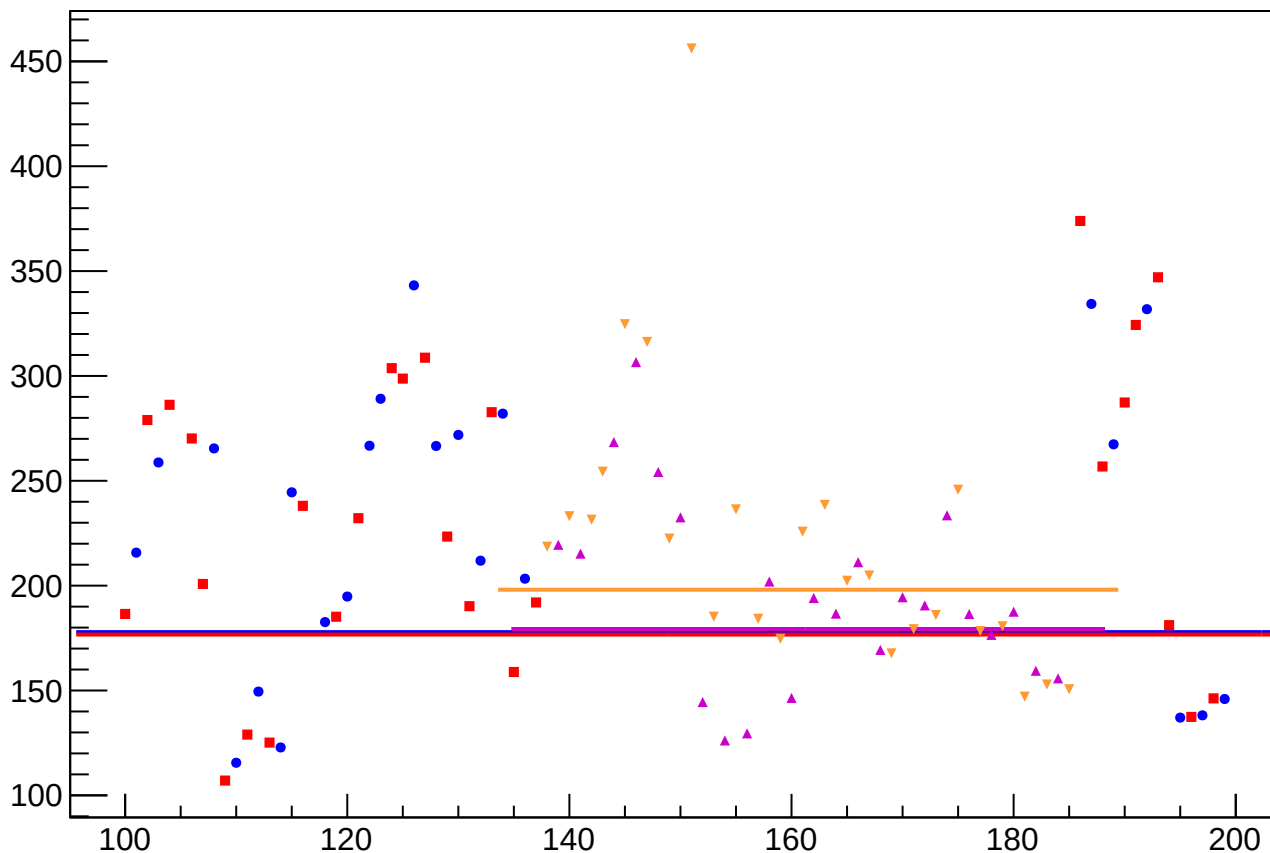
Right: -9.437 ± 39.981 χ^2/NDF : 22.0/49

In: 17.769 ± 35.528 χ^2/NDF : 18.9/45

Out: -1.187 ± 36.096 χ^2/NDF : 19.3/51

All: 8.441 ± 25.321 χ^2/NDF : 38.4/97

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: 176.680 $\pm$ 0.039 χ^2 /NDF: 2703273.1/26

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

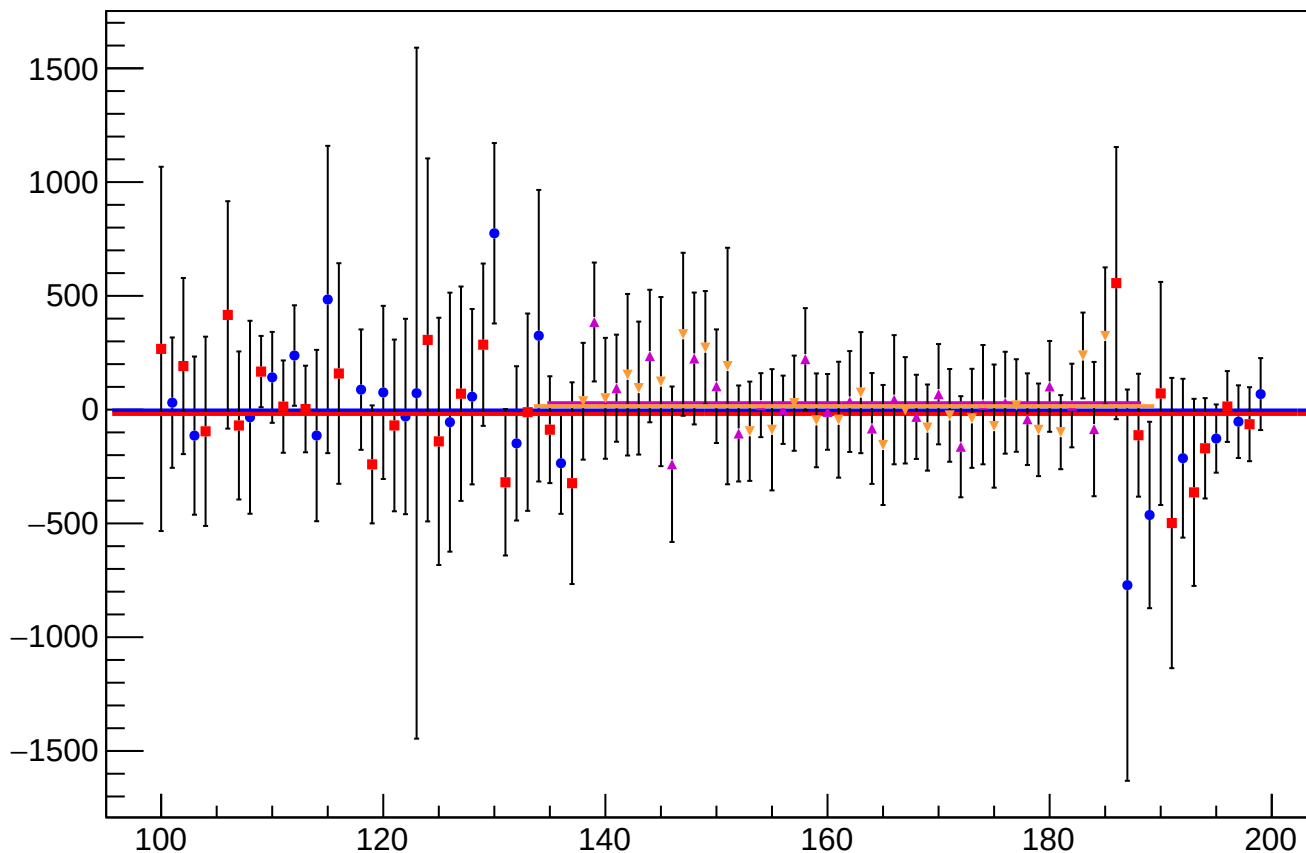
Right: 177.225 $\pm$ 0.028 χ^2 /NDF: 4711283.8/49

In: 178.769 $\pm$ 0.025 χ^2 /NDF:3626682.0/45

Out: 188.861 $\pm$ 0.026 χ^2 /NDF:4653783.9/51

All: 183.735 $\pm$ 0.018 χ^2 /NDF: 8359886.6/97

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -3.668 ± 58.256 $\chi^2/\text{NDF}: 11.4/22$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -18.938 ± 55.010 $\chi^2/\text{NDF}: 8.9/26$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

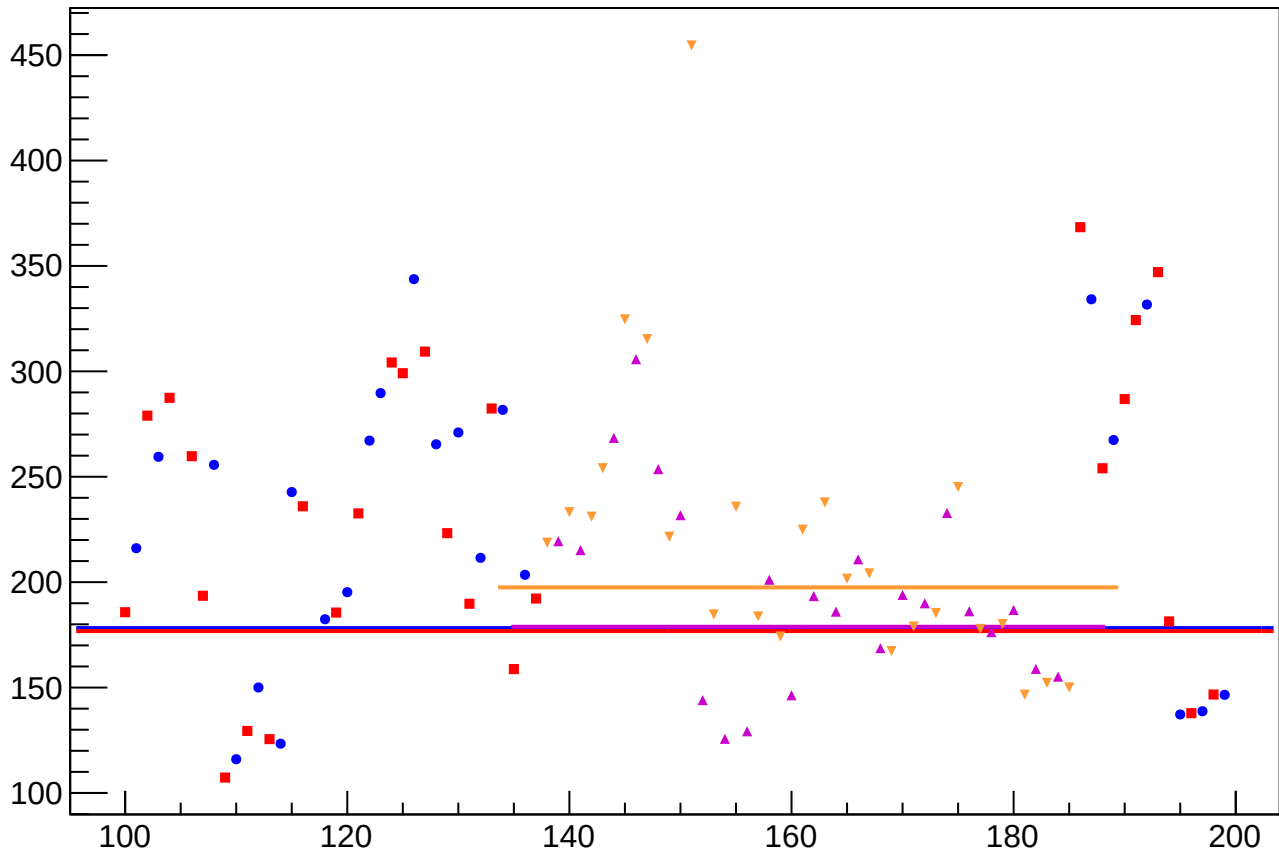
Right: -11.740 ± 39.996 $\chi^2/\text{NDF}: 20.4/49$

In: 16.424 ± 35.485 $\chi^2/\text{NDF}: 18.0/45$

Out: 0.686 ± 36.036 $\chi^2/\text{NDF}: 16.1/51$

All: 8.676 ± 25.284 $\chi^2/\text{NDF}: 34.2/97$

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: 176.783 $\pm$ 0.039 χ^2 /NDF: 2659617.0/26

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

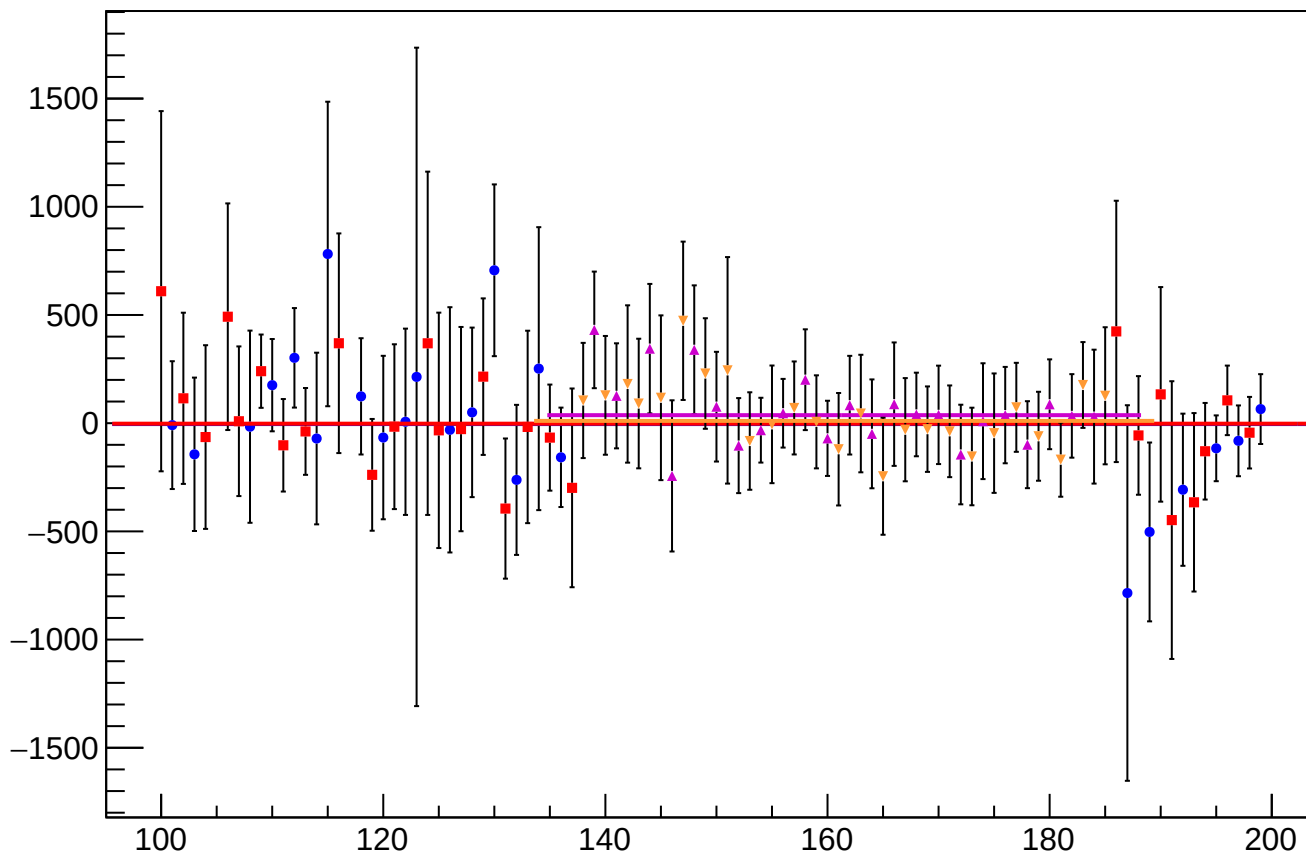
Right: 177.455 $\pm$ 0.028 χ^2 /NDF: 4636961.0/49

In: 178.603 $\pm$ 0.025 χ^2 /NDF:3599124.5/45

Out: 188.625 $\pm$ 0.025 χ^2 /NDF:4606197.6/51

All: 183.537 $\pm$ 0.018 χ^2 /NDF: 8283867.9/97

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: -2.358 ± 56.829 $\chi^2/\text{NDF}: 10.5/26$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

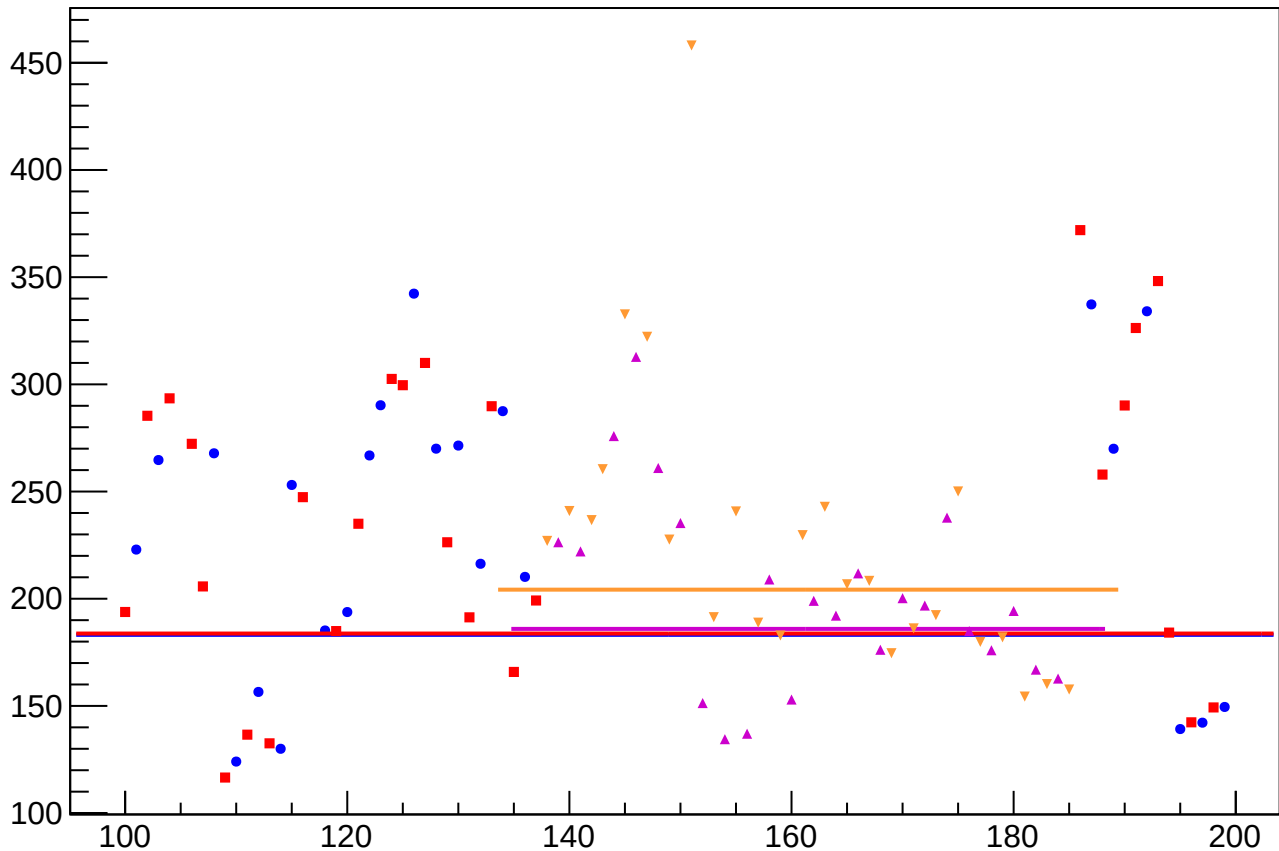
Right: -3.190 ± 41.167 $\chi^2/\text{NDF}: 23.0/49$

In: 21.542 ± 36.619 $\chi^2/\text{NDF}: 20.7/45$

Out: 5.011 ± 37.195 $\chi^2/\text{NDF}: 18.0/51$

All: 13.406 ± 26.095 $\chi^2/\text{NDF}: 38.8/97$

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: 183.761+/-0.040 χ^2/NDF : 2444451.0/26

Left In: 185.931+/-0.033 χ^2/NDF : 1460065.0/22

Left: 194.540+/-0.024 χ^2/NDF : 3282383.3/47

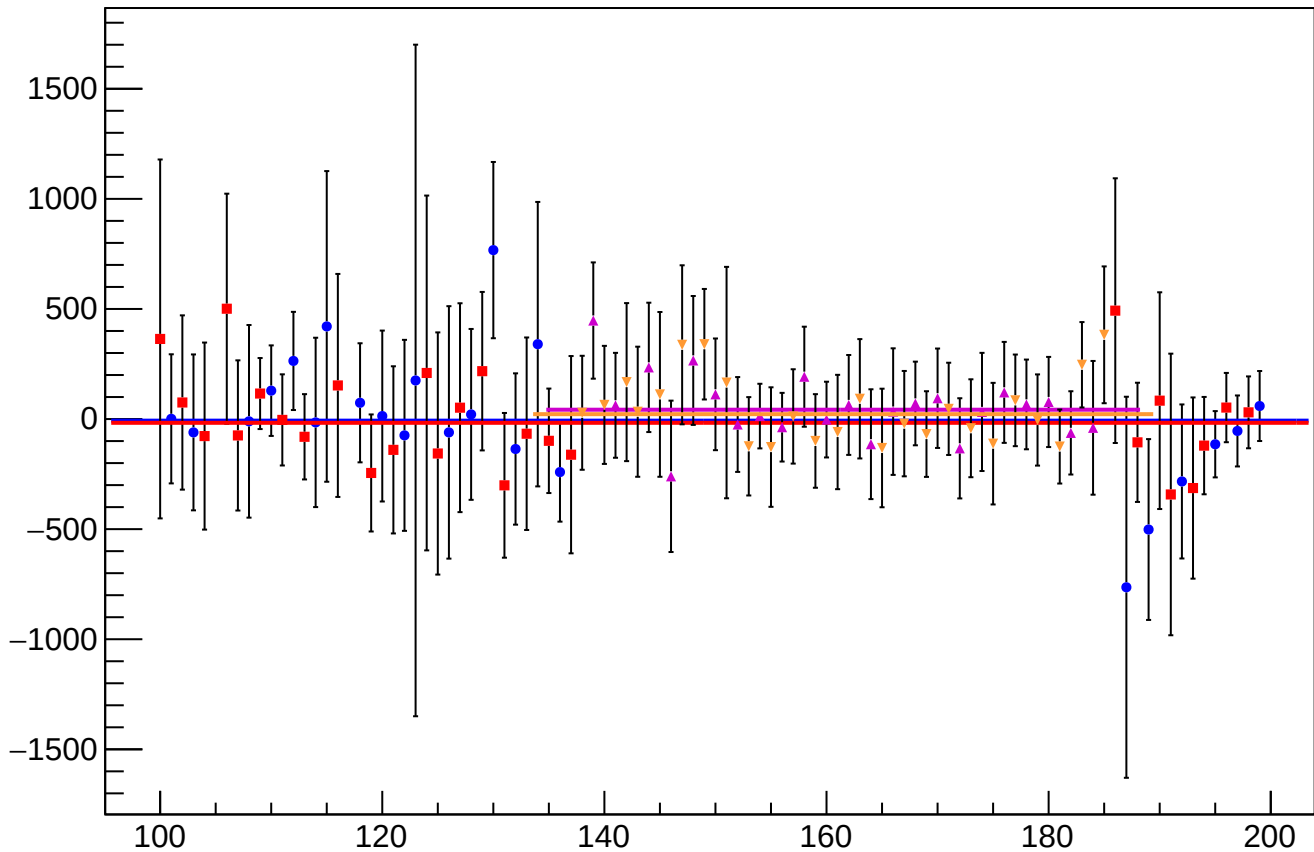
Right: 183.470+/-0.029 χ^2/NDF : 4334483.1/49

In: 184.885+/-0.026 χ^2/NDF : 3352695.0/45

Out: 195.465+/-0.026 χ^2/NDF : 4268523.6/51

All: 190.092+/-0.018 χ^2/NDF : 7703375.8/97

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -7.246 ± 58.967 $\chi^2/\text{NDF}: 11.3/22$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -17.034 ± 55.846 $\chi^2/\text{NDF}: 6.8/26$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

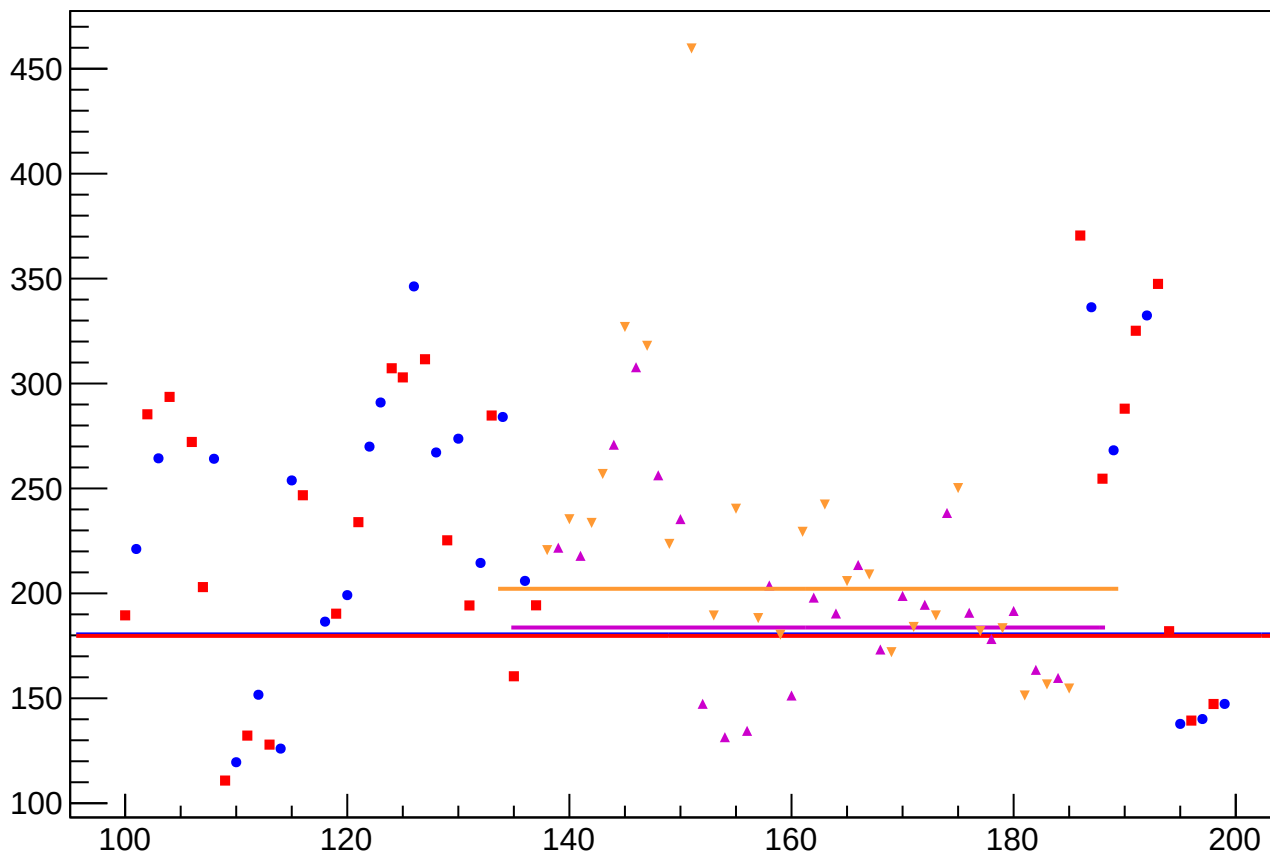
Right: -12.406 ± 40.547 $\chi^2/\text{NDF}: 18.1/49$

In: 23.717 ± 36.201 $\chi^2/\text{NDF}: 18.5/45$

Out: 5.231 ± 36.721 $\chi^2/\text{NDF}: 15.4/51$

All: 14.606 ± 25.780 $\chi^2/\text{NDF}: 34.0/97$

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: 179.752 $\pm$ 0.039 χ^2 /NDF: 2620394.3/26

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

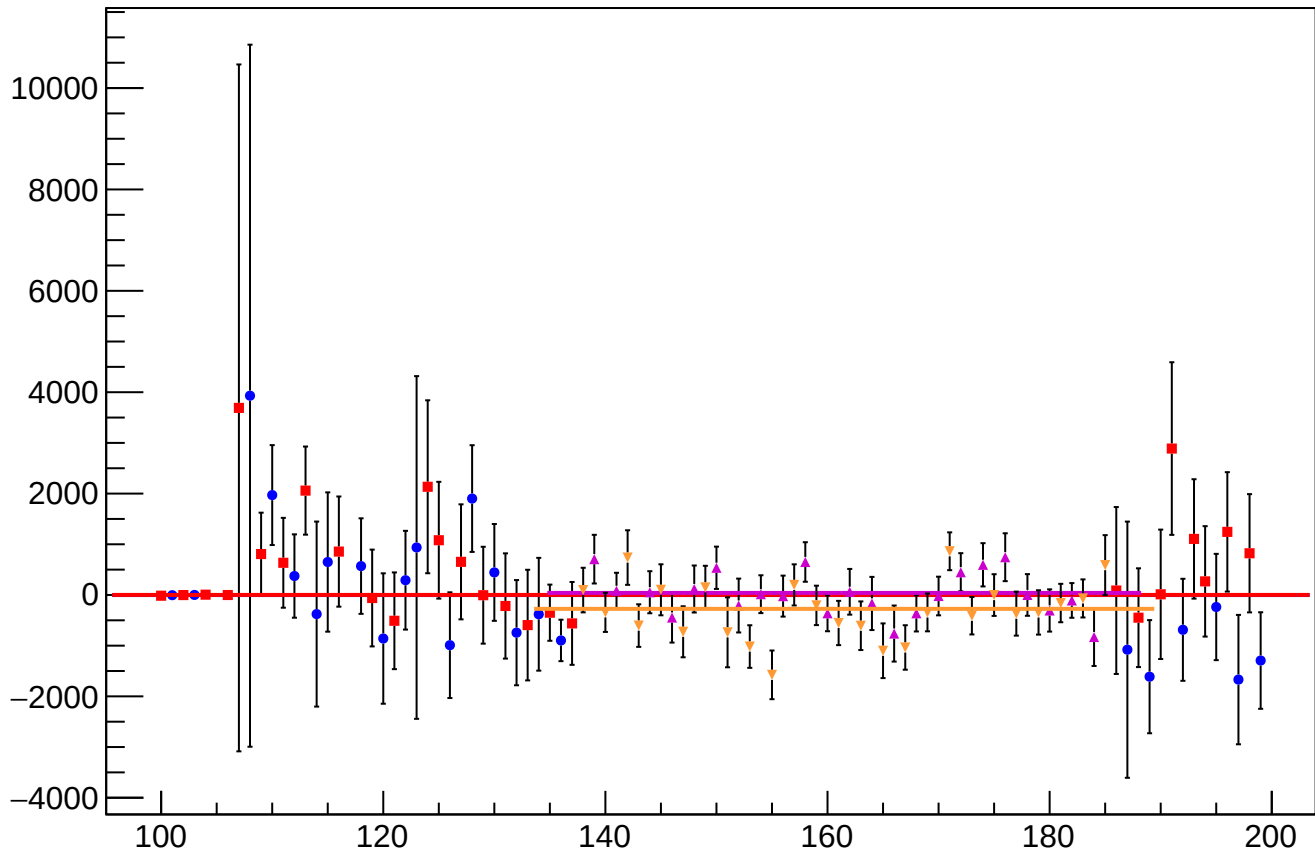
Right: 180.080 $\pm$ 0.029 χ^2 /NDF: 4595176.7/49

In: 182.494 $\pm$ 0.026 χ^2 /NDF:3474437.9/45

Out: 192.487 $\pm$ 0.026 χ^2 /NDF:4500170.3/51

All: 187.419 $\pm$ 0.018 χ^2 /NDF: 8049725.7/97

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: 0.745 ± 2.111 χ^2/NDF : 23.9/26

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

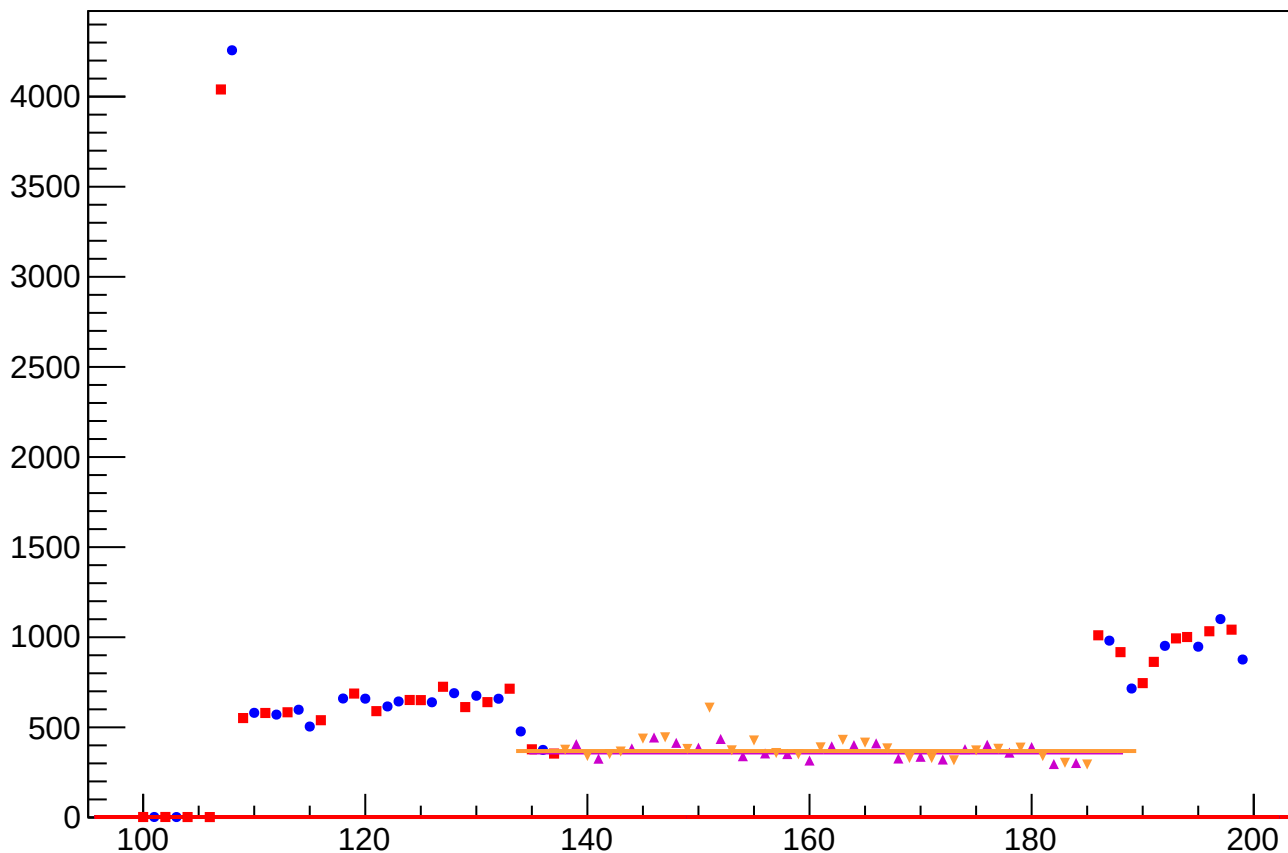
Right: -0.330 ± 1.540 χ^2/NDF : 47.7/49

In: -1.525 ± 2.251 χ^2/NDF : 43.6/45

Out: 0.583 ± 2.110 χ^2/NDF : 72.2/51

All: -0.404 ± 1.540 χ^2/NDF : 116.3/97

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.477+/-0.002 χ^2/NDF : 18356247.7/22

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.459+/-0.001 χ^2/NDF : 21015555.1/26

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

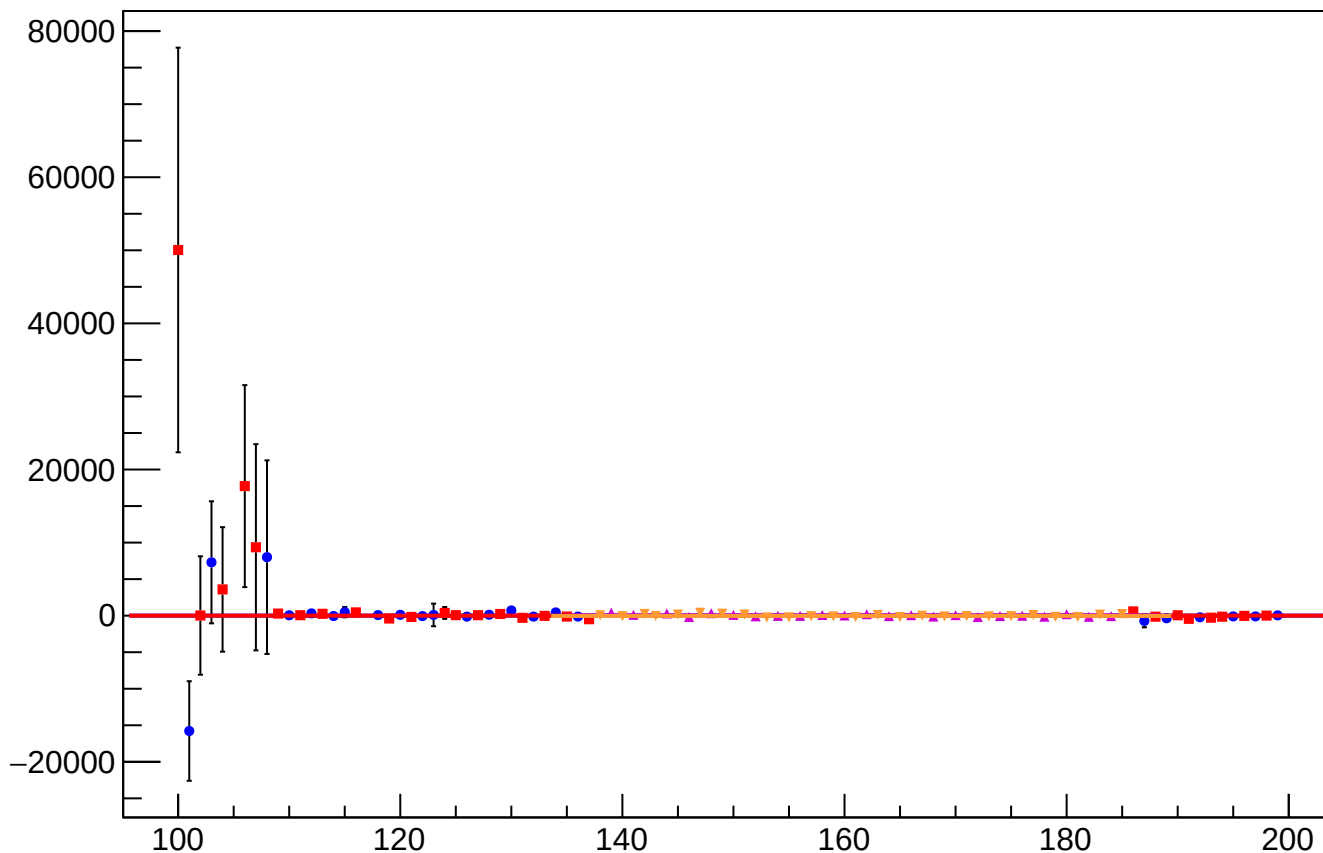
Right: 2.468+/-0.001 χ^2/NDF : 39371867.1/49

In: 2.714+/-0.002 χ^2/NDF : 52276301.6/45

Out: 2.675+/-0.001 χ^2/NDF : 57128041.5/51

All: 2.694+/-0.001 χ^2/NDF : 109404655.3/97

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 7.078+/-65.318 χ^2/NDF : 15.7/22

Left Out: -39.036+/-49.576 χ^2/NDF : 9.1/24

Right Out: -1.165+/-63.410 χ^2/NDF : 16.8/26

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

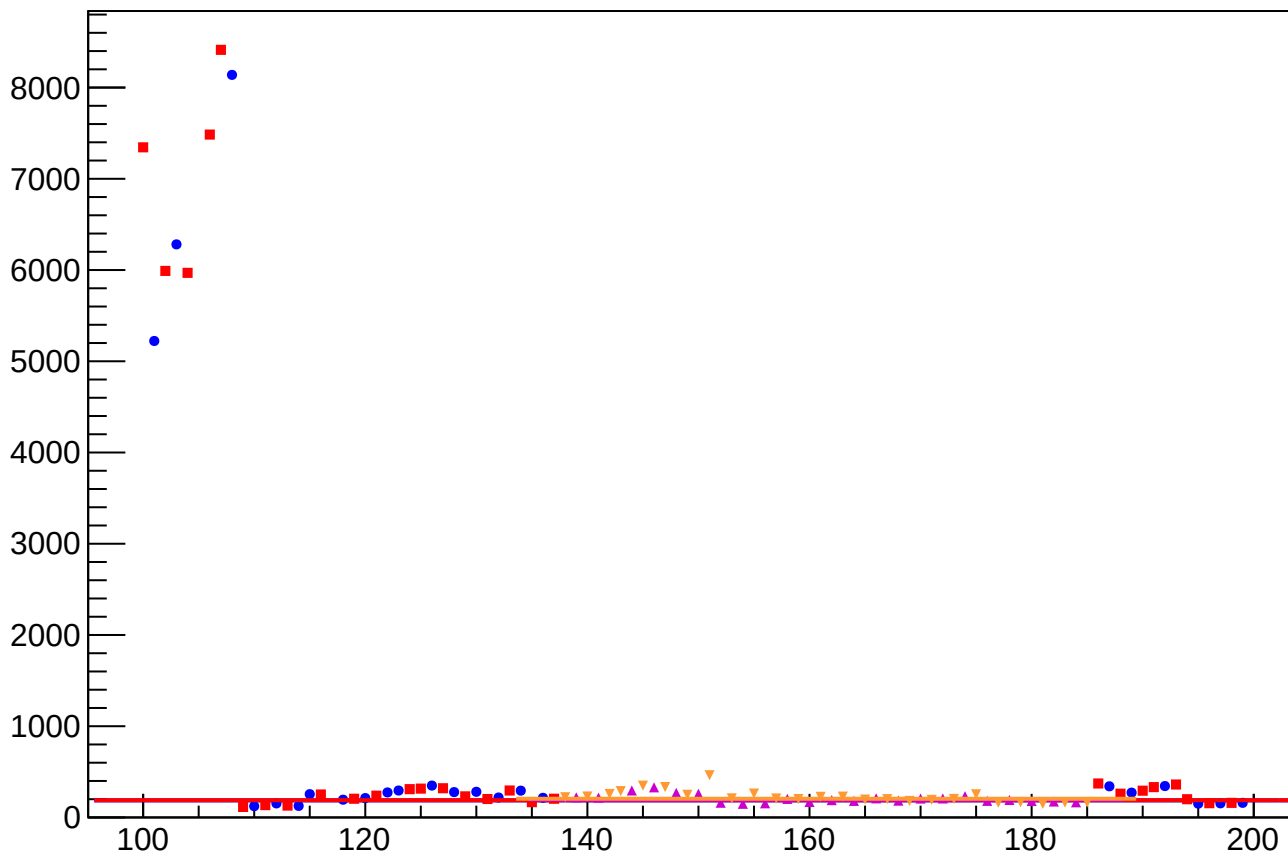
Right: 2.835+/-45.497 χ^2/NDF : 32.4/49

In: 20.697+/-38.696 χ^2/NDF : 25.3/45

Out: -24.669+/-39.056 χ^2/NDF : 26.1/51

All: -1.776+/-27.489 χ^2/NDF : 52.1/97

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 186.689 ± 0.046 $\chi^2/\text{NDF}: 4455553.7/22$

Left Out: 205.114 ± 0.035 $\chi^2/\text{NDF}: 1957484.4/24$

Right Out: 189.241 ± 0.045 $\chi^2/\text{NDF}: 5288868.1/26$

Left In: 193.616 ± 0.034 $\chi^2/\text{NDF}: 1179471.1/22$

Left: 199.183 ± 0.024 $\chi^2/\text{NDF}: 3192443.5/47$

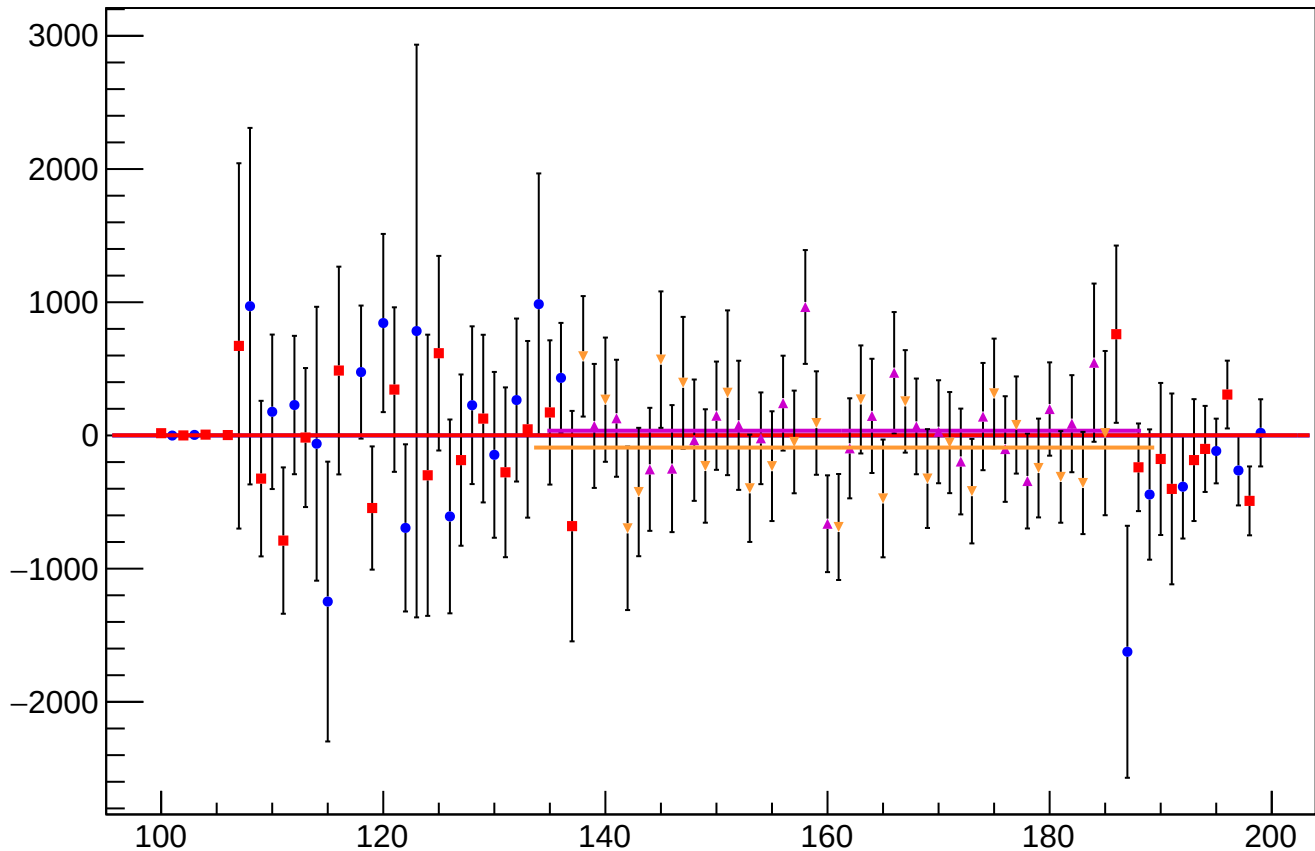
Right: 188.002 ± 0.032 $\chi^2/\text{NDF}: 9745993.5/49$

In: 191.185 ± 0.027 $\chi^2/\text{NDF}: 5649625.8/45$

Out: 199.092 ± 0.028 $\chi^2/\text{NDF}: 7324133.2/51$

All: 195.102 ± 0.019 $\chi^2/\text{NDF}: 13015127.8/97$

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.176 ± 1.736 χ^2/NDF : 16.1/22

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.306 ± 1.622 χ^2/NDF : 16.9/26

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

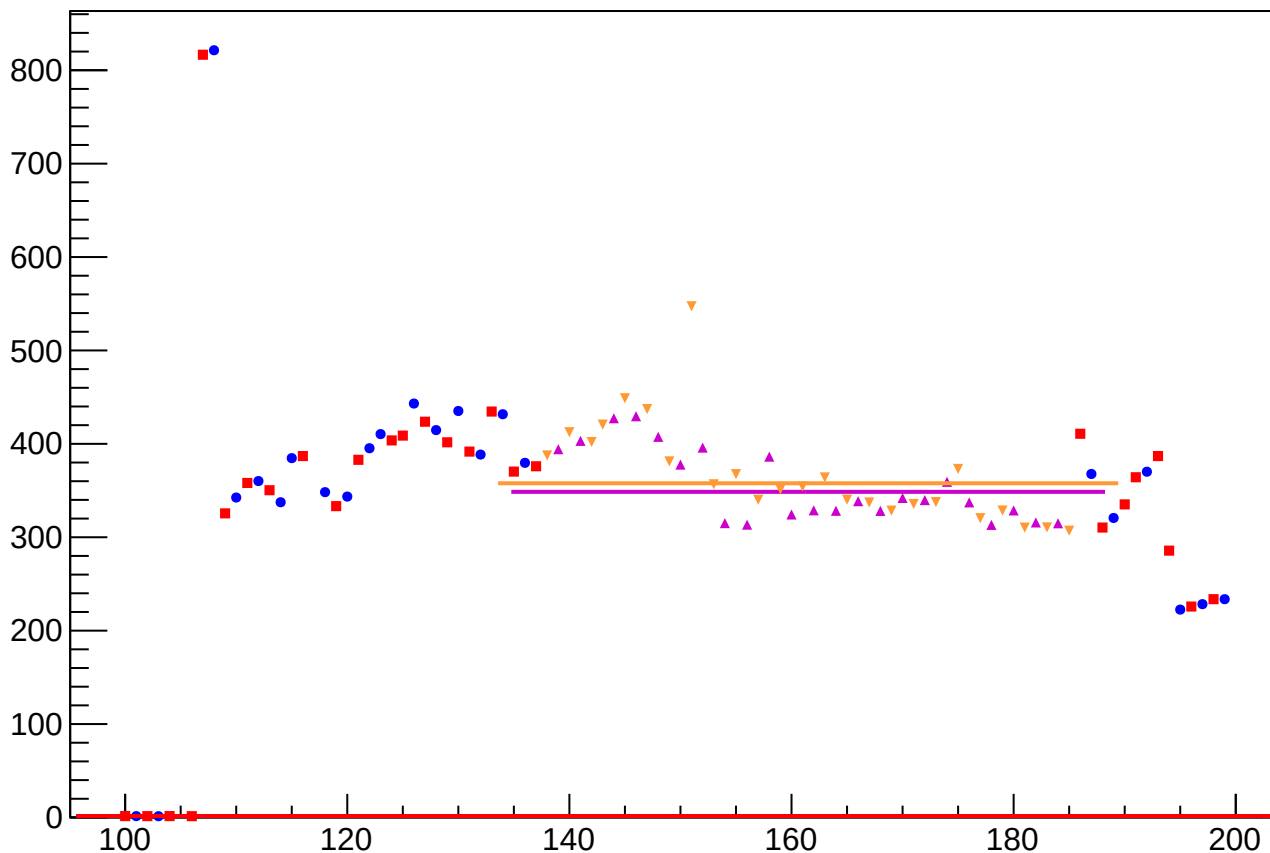
Right: 0.615 ± 1.185 χ^2/NDF : 33.3/49

In: -0.161 ± 1.736 χ^2/NDF : 29.7/45

Out: 1.272 ± 1.622 χ^2/NDF : 34.5/51

All: 0.604 ± 1.185 χ^2/NDF : 64.6/97

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: 1.496 $\pm$ 0.001 χ^2 /NDF: 20682526.5/26

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

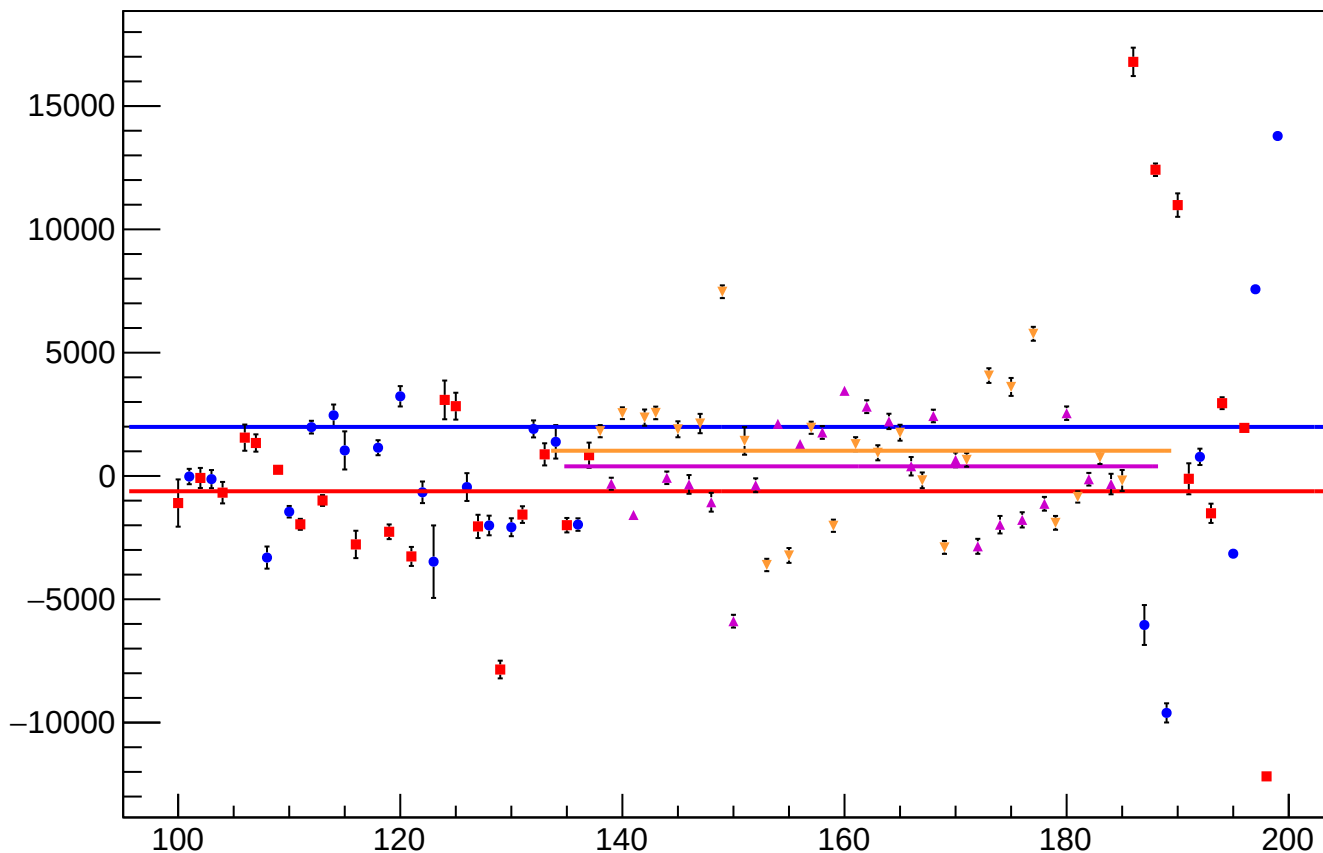
Right: 1.496 $\pm$ 0.001 χ^2 /NDF: 39249834.9/49

In: 1.644 $\pm$ 0.001 χ^2 /NDF: 52758696.2/45

Out: 1.628 $\pm$ 0.001 χ^2 /NDF: 57134163.8/51

All: 1.636 $\pm$ 0.001 χ^2 /NDF: 109892944.7/97

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: -620.169 $\pm$ 60.535 χ^2 /NDF: 9441.2/26

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

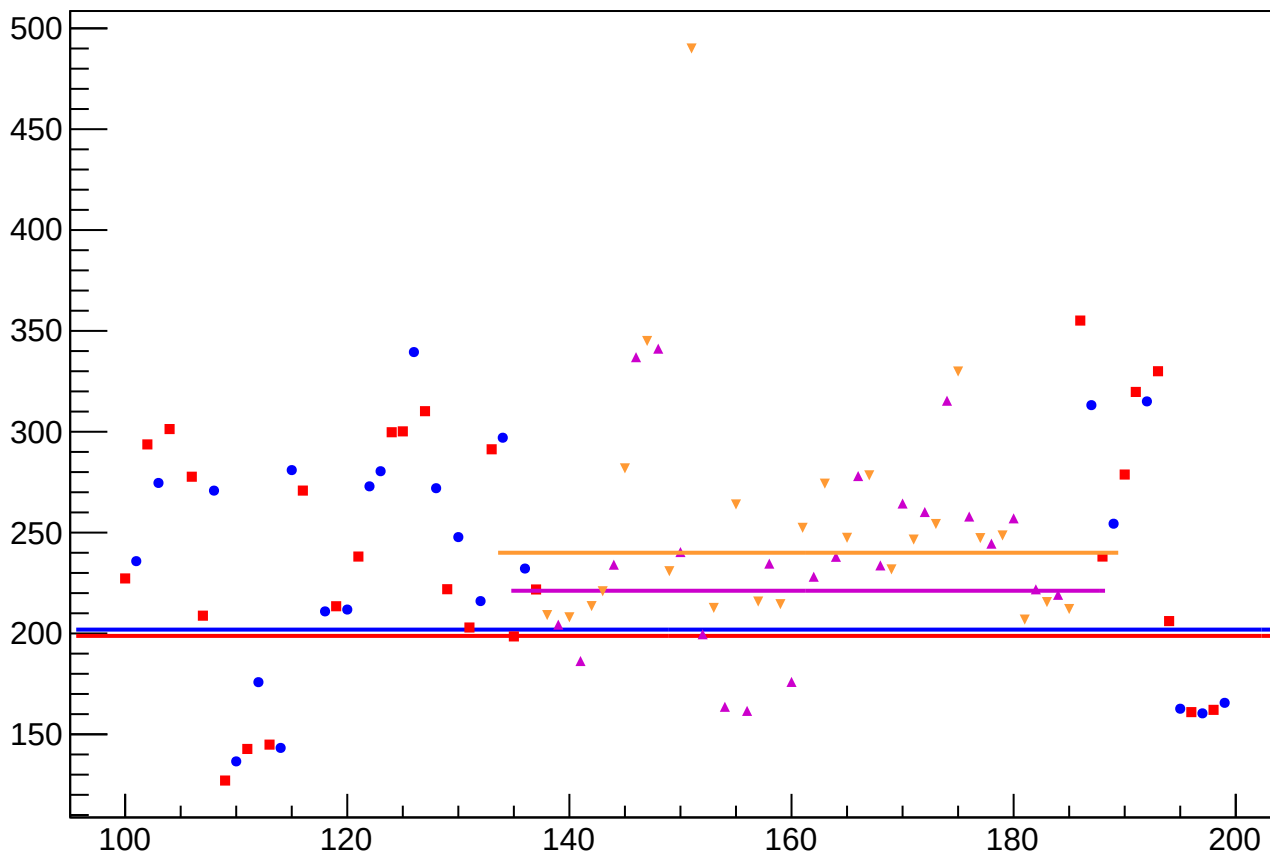
Right: 594.630 $\pm$ 44.254 χ^2 /NDF: 18399.1/49

In: 1058.084 $\pm$ 41.917 χ^2 /NDF:10031.7/45

Out: 246.180 $\pm$ 41.628 χ^2 /NDF:12139.2/51

All: 649.327 $\pm$ 29.537 χ^2 /NDF: 22359.7/97

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 201.910 $\pm$ 0.046 χ^2/NDF : 1315734.1/22

Left Out: 240.019 $\pm$ 0.041 χ^2/NDF :1002427.9/24

Right Out: 198.790 $\pm$ 0.043 χ^2/NDF : 1915053.8/26

Left In: 221.173 $\pm$ 0.039 χ^2/NDF :1342517.8/22

Left: 230.192 $\pm$ 0.028 χ^2/NDF : 2457612.6/47

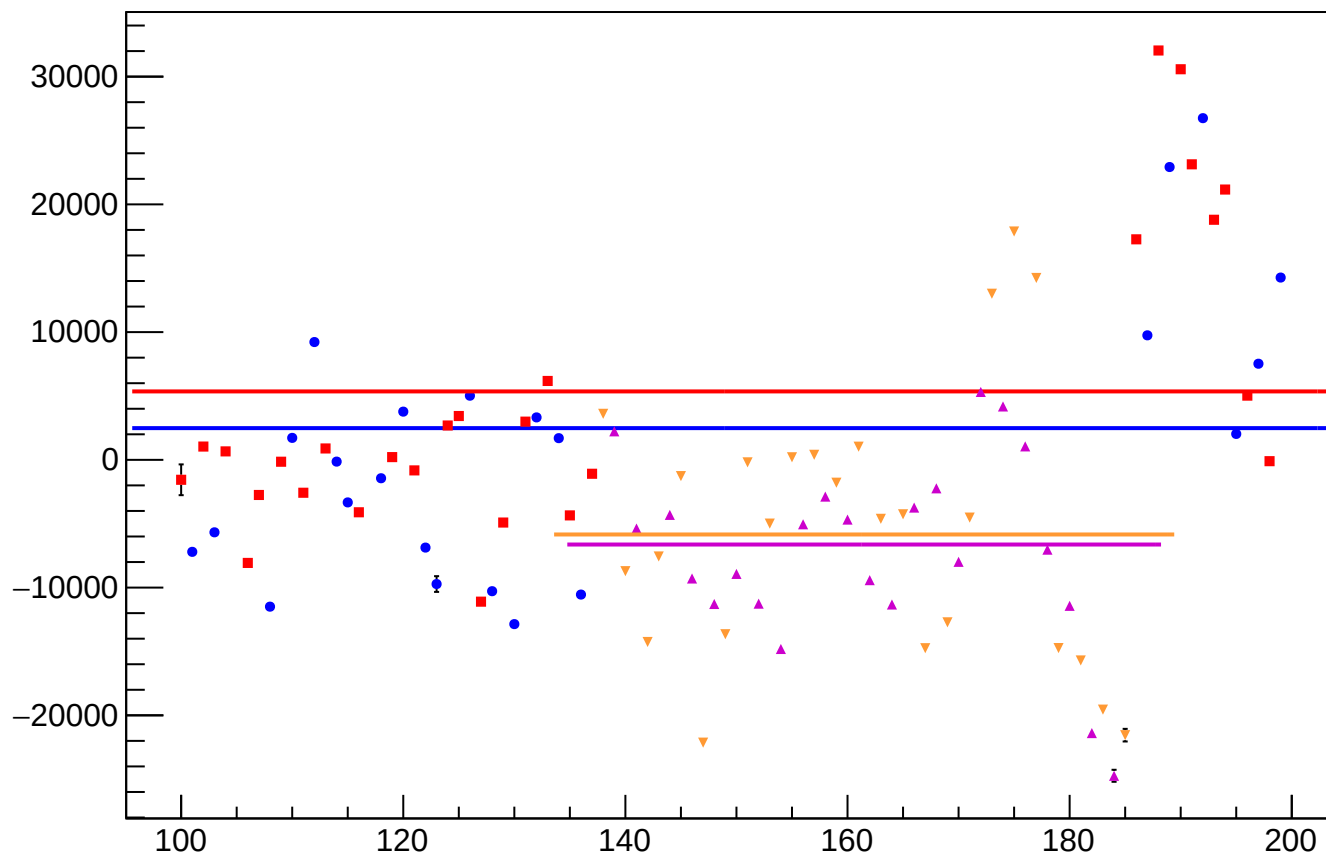
Right: 200.242 $\pm$ 0.031 χ^2/NDF : 3233261.2/49

In: 213.127 $\pm$ 0.030 χ^2/NDF :2760984.3/45

Out: 220.522 $\pm$ 0.029 χ^2/NDF :3406498.9/51

All: 216.850 $\pm$ 0.021 χ^2/NDF : 6198825.0/97

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2483.982 $\pm$ 40.225

χ^2/NDF : 77136.7/22

Left: -6220.862 $\pm$ 25.800

χ^2/NDF : 85367.5/47

Left Out: -5841.615 $\pm$ 35.848

χ^2/NDF : 63397.3/24

Right: 4030.165 $\pm$ 27.338

χ^2/NDF : 180892.0/49

Right Out: 5357.376 $\pm$ 37.268

χ^2/NDF : 101009.4/26

In: -2432.519 $\pm$ 27.295

χ^2/NDF : 126563.2/45

Out: -459.562 $\pm$ 25.836

χ^2/NDF : 211310.2/51

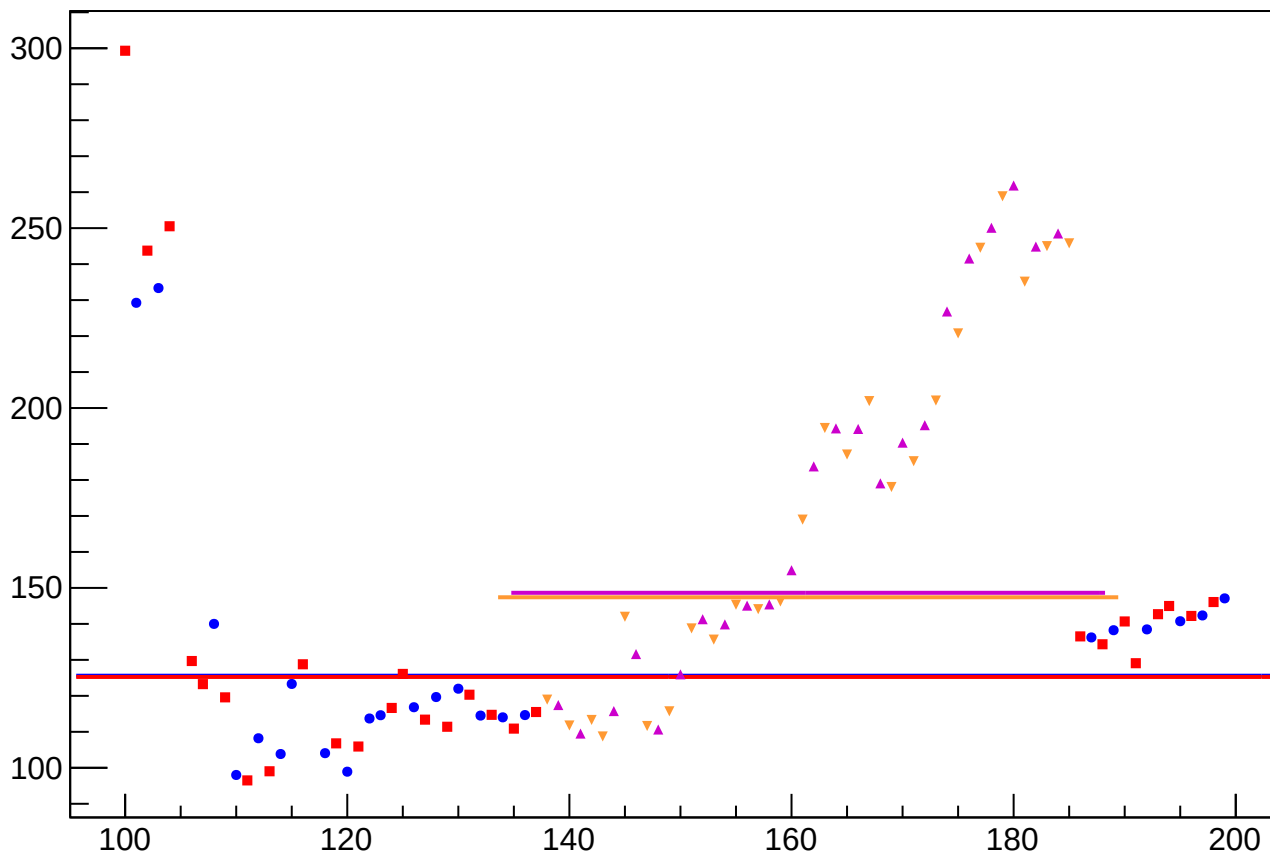
Left In: -6628.388 $\pm$ 37.160

χ^2/NDF : 21738.0/22

All: -1391.873 $\pm$ 18.763

χ^2/NDF : 340629.2/9

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 125.598 $\pm$ 0.028 χ^2 /NDF: 783626.0/22

Left Out: 147.396 $\pm$ 0.025 χ^2 /NDF: 2517097.1/24

Right Out: 125.254 $\pm$ 0.026 χ^2 /NDF: 884415.3/26

Left In: 148.642 $\pm$ 0.026 χ^2 /NDF: 2415531.9/22

Left: 147.997 $\pm$ 0.018 χ^2 /NDF: 4933793.6/47

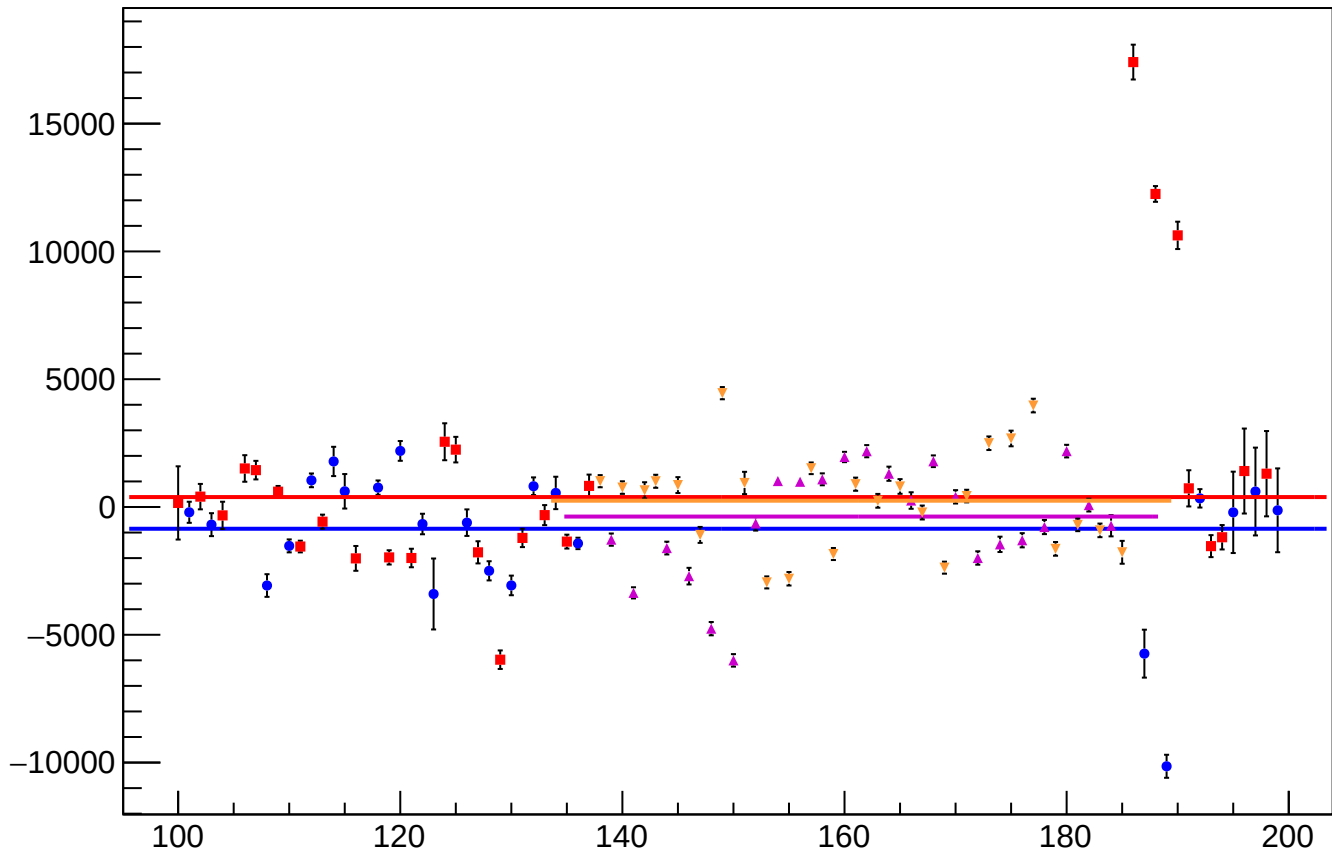
Right: 125.413 $\pm$ 0.019 χ^2 /NDF: 1668119.9/49

In: 138.031 $\pm$ 0.019 χ^2 /NDF: 3553304.2/45

Out: 136.755 $\pm$ 0.018 χ^2 /NDF: 3768207.2/51

All: 137.358 $\pm$ 0.013 χ^2 /NDF: 7323817.1/97

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -851.814 $\pm$ 84.522 χ^2/NDF : 760.5/22

Left Out: 246.120 $\pm$ 53.492 χ^2/NDF :1354.8/24

Right Out: 388.470 $\pm$ 75.286 χ^2/NDF : 3160.8/26

Left In: -374.465 $\pm$ 51.892 χ^2/NDF :1798.3/22

Left: -73.589 $\pm$ 37.246 χ^2/NDF : 3222.4/47

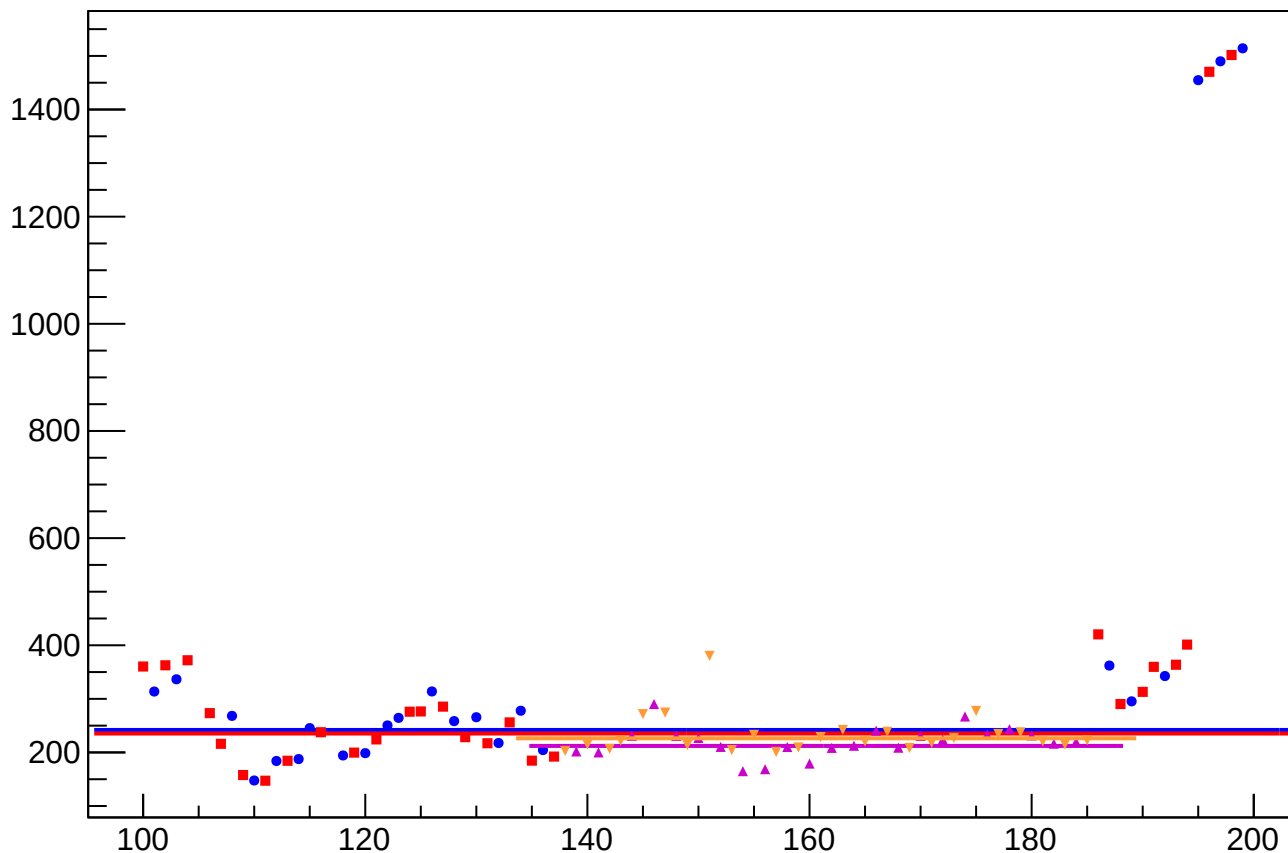
Right: -160.231 $\pm$ 56.218 χ^2/NDF : 4041.3/49

In: -505.139 $\pm$ 44.223 χ^2/NDF :2581.9/45

Out: 293.874 $\pm$ 43.606 χ^2/NDF :4518.0/51

All: -100.019 $\pm$ 31.050 χ^2/NDF : 7265.4/97

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: 235.292+/-0.053 χ^2/NDF : 4066615.7/26

Left In: 212.145+/-0.037 χ^2/NDF : 591698.6/22

Left: 219.044+/-0.026 χ^2/NDF : 1186390.8/47

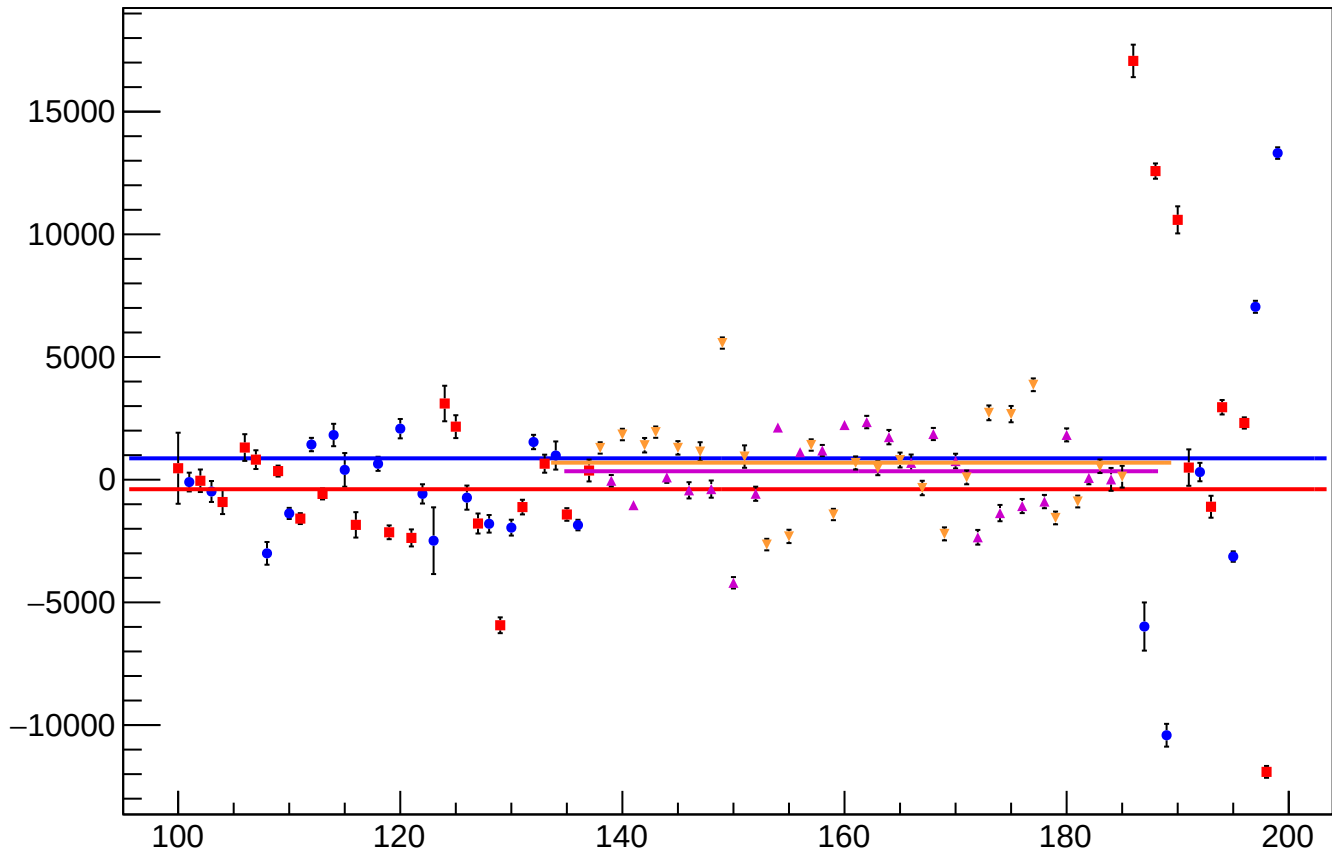
Right: 238.239+/-0.040 χ^2/NDF : 8459999.8/49

In: 220.305+/-0.031 χ^2/NDF : 5158820.8/45

Out: 229.367+/-0.031 χ^2/NDF : 4607028.5/51

All: 224.900+/-0.022 χ^2/NDF : 9808427.1/97

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: -387.985+/-65.104 χ^2/NDF : 5905.5/26

Left In: 344.578+/-52.954 χ^2/NDF :985.0/22

Left: 515.236+/-37.893 χ^2/NDF : 2428.4/47

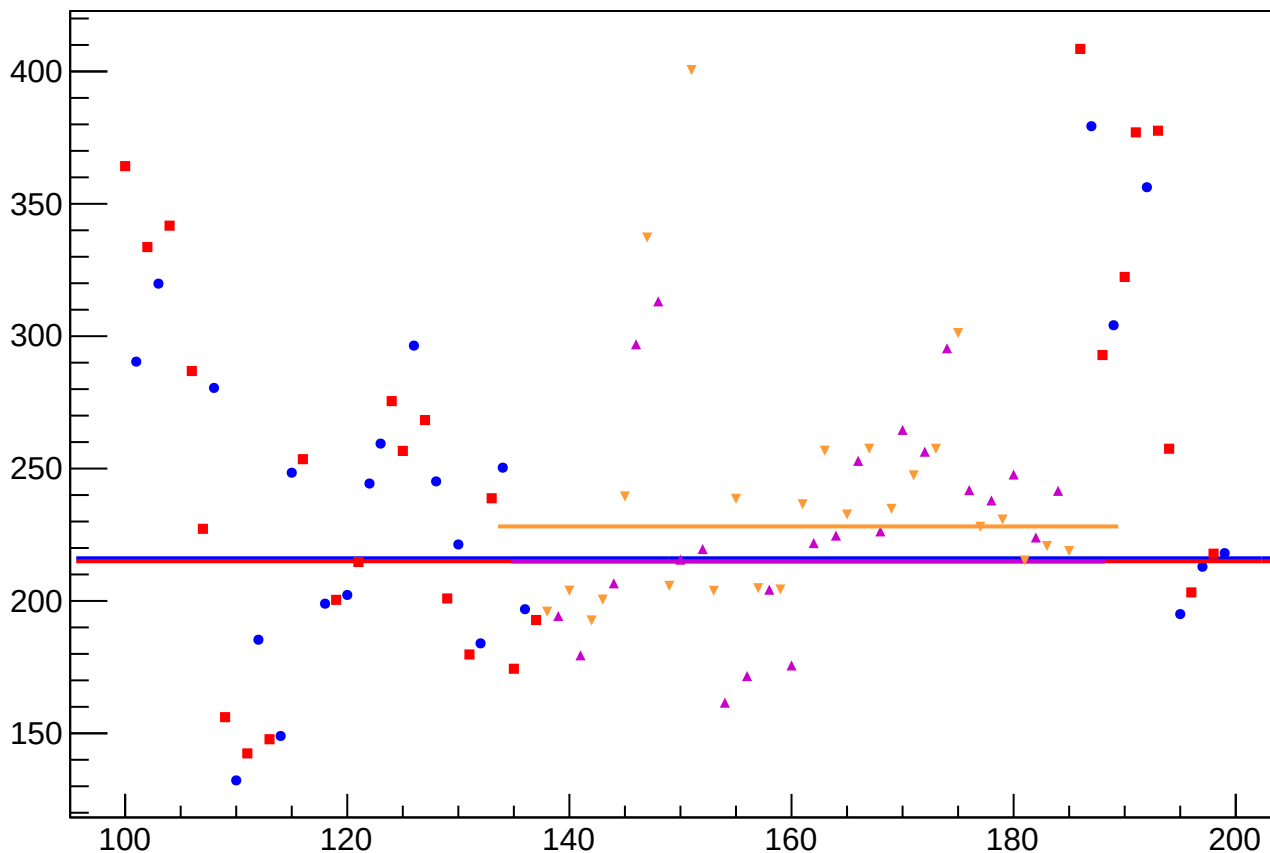
Right: 204.482+/-47.371 χ^2/NDF : 11034.2/49

In: 539.532+/-42.021 χ^2/NDF :5974.3/45

Out: 250.819+/-41.675 χ^2/NDF :7490.8/51

All: 393.982+/-29.591 χ^2/NDF : 13488.8/97

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: 214.995 $\pm$ 0.046 χ^2 /NDF: 1813587.8/26

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

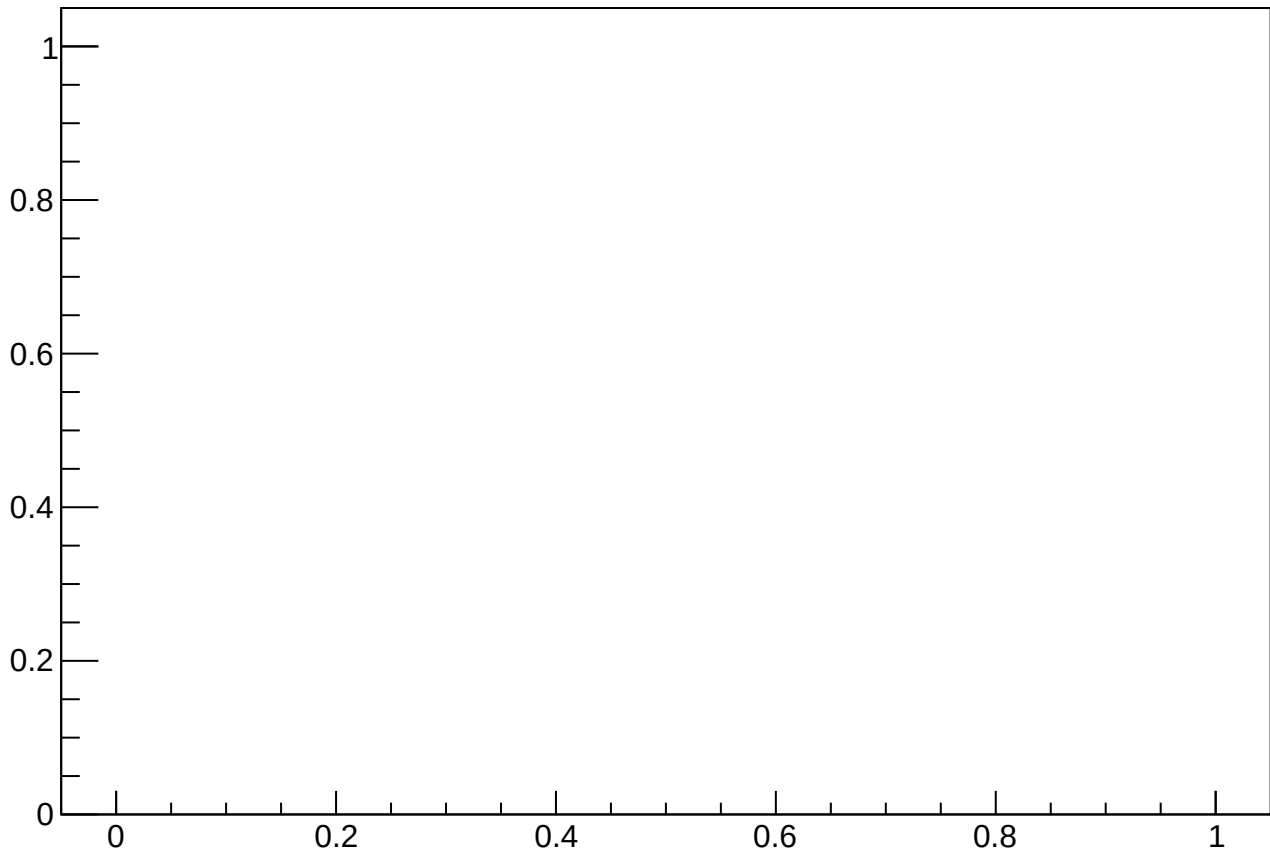
Right: 215.518 $\pm$ 0.033 χ^2 /NDF: 2956749.2/49

In: 215.333 $\pm$ 0.030 χ^2 /NDF: 2180795.4/45

Out: 222.756 $\pm$ 0.029 χ^2 /NDF: 2690135.6/51

All: 219.075 $\pm$ 0.021 χ^2 /NDF: 4902390.8/97

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

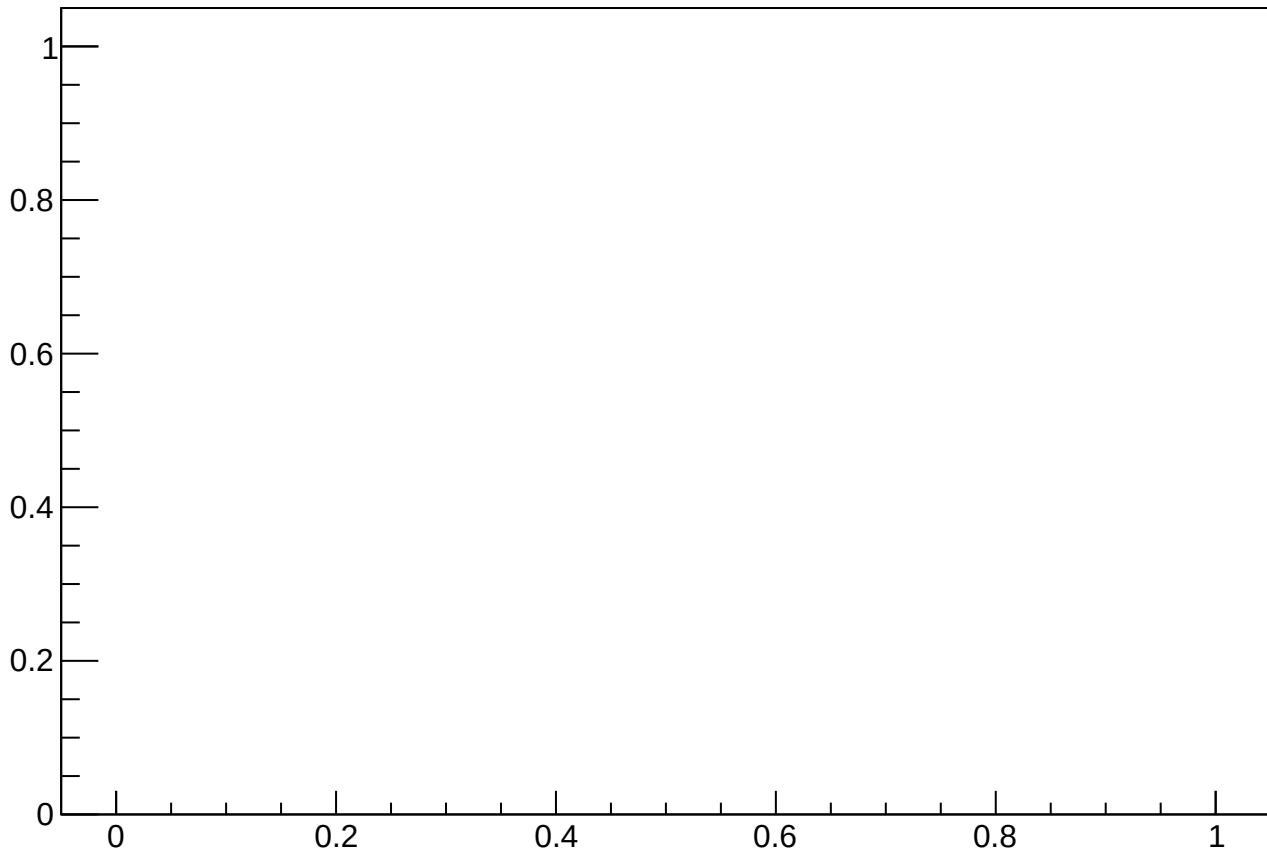
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 0.000 $\pm$ 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

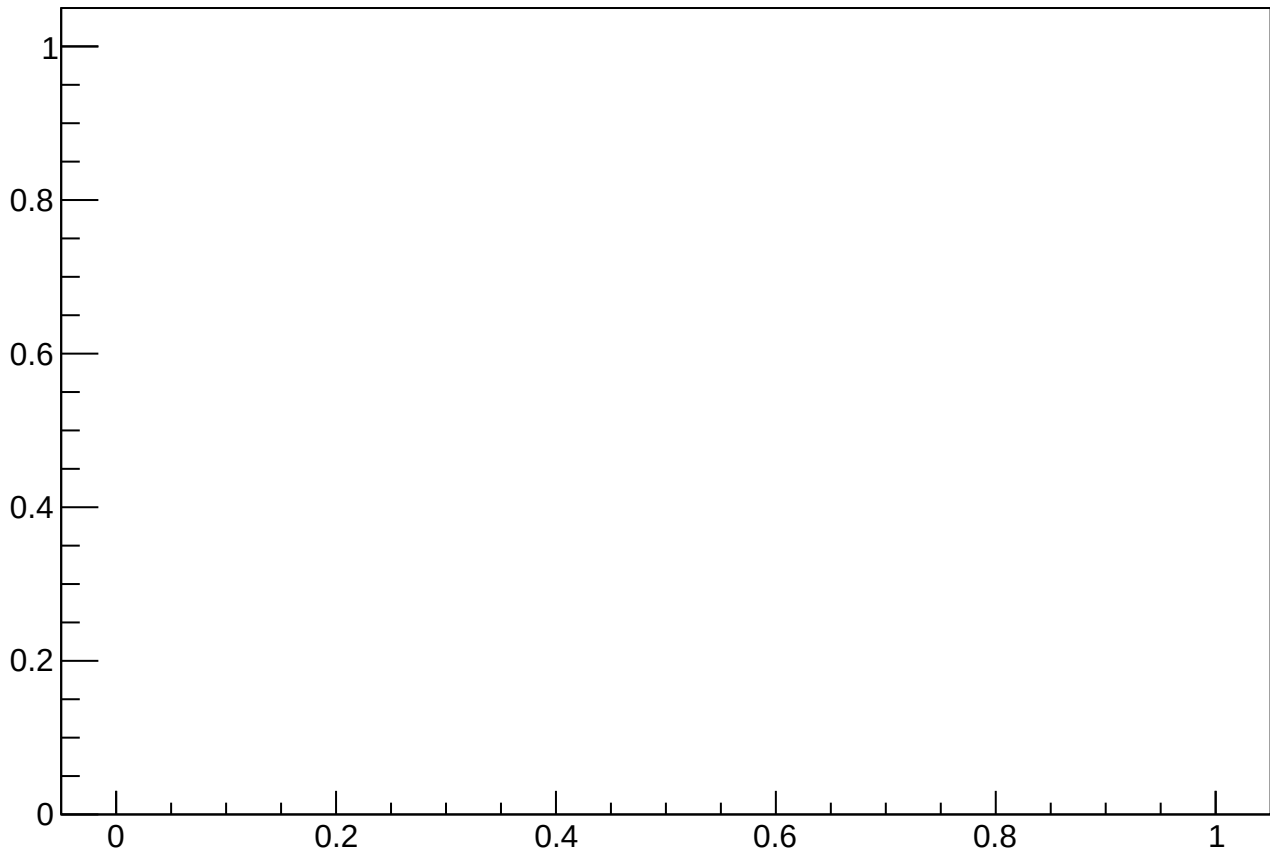
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

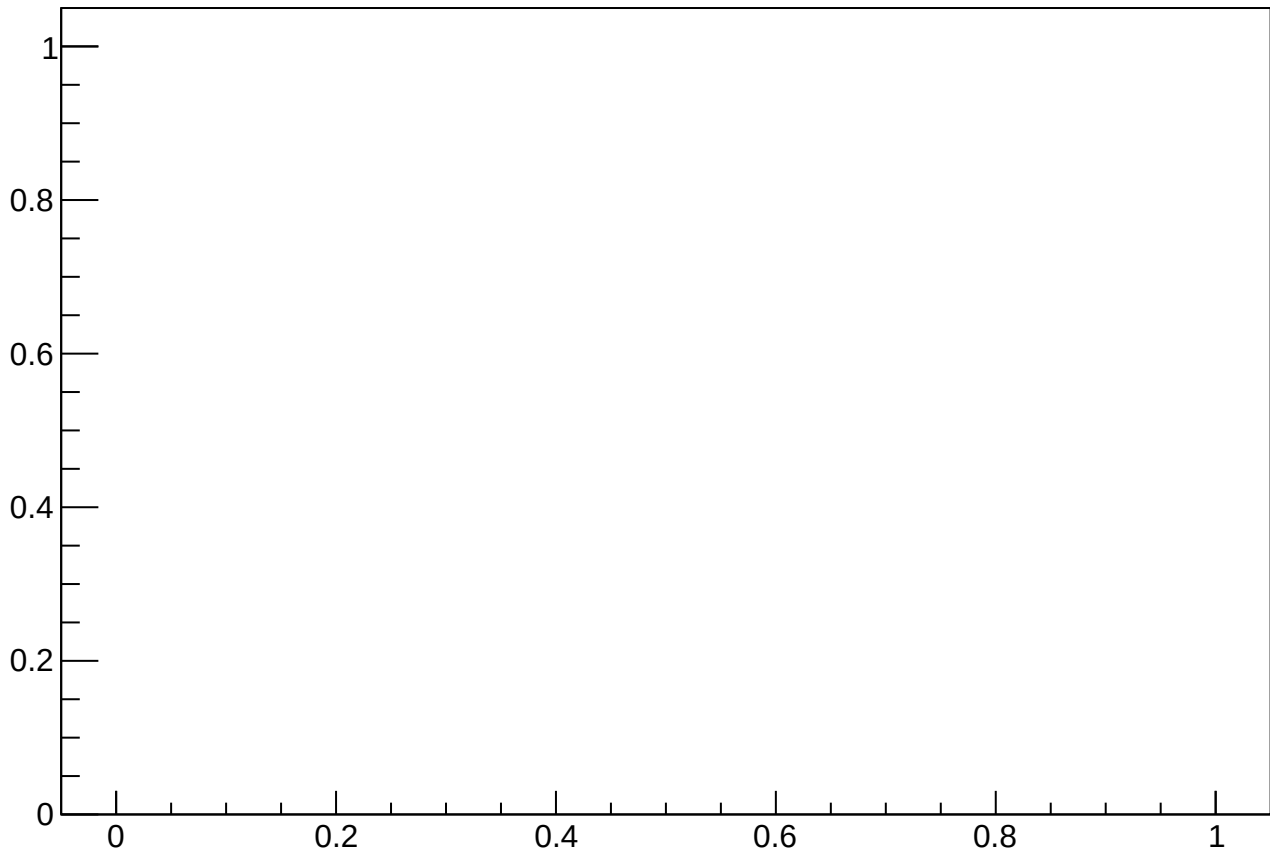
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

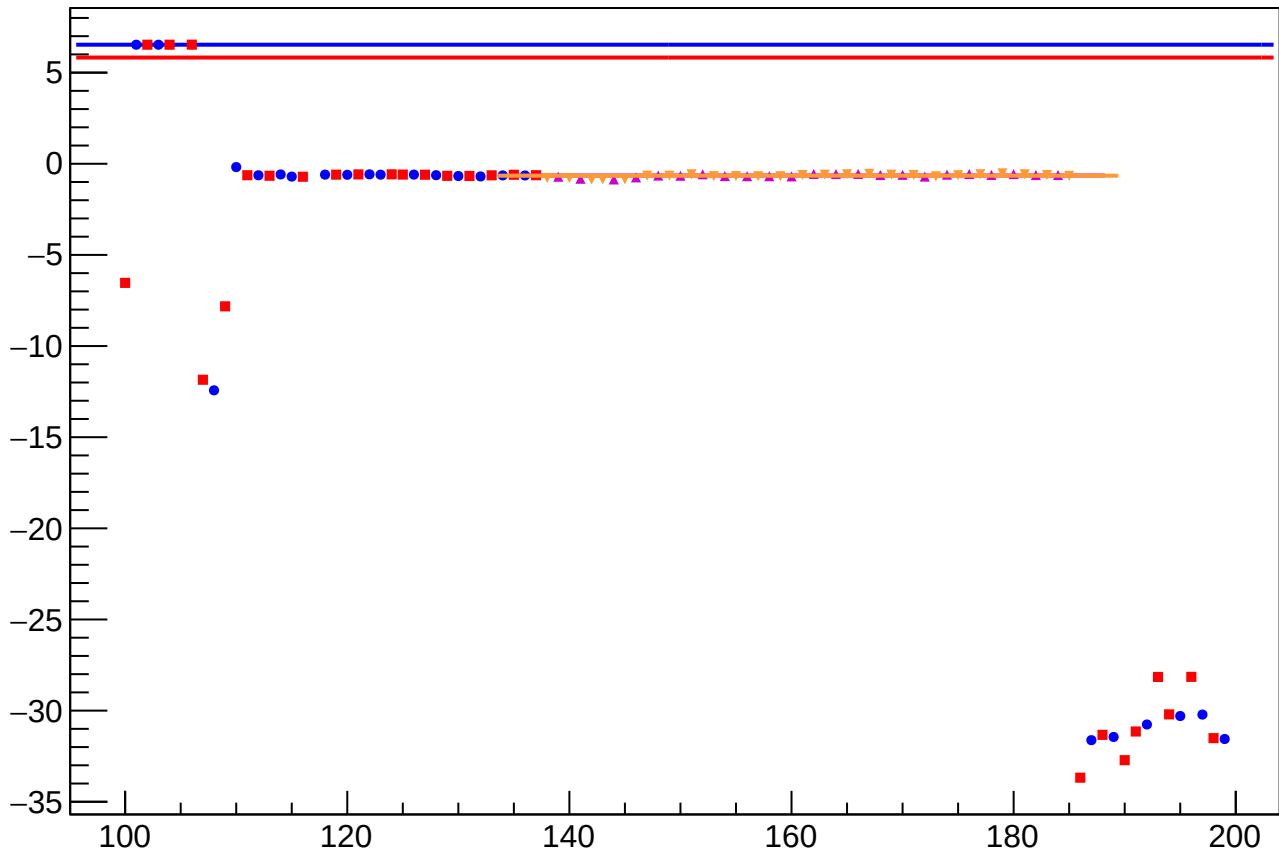
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 755962251655670.0/26

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

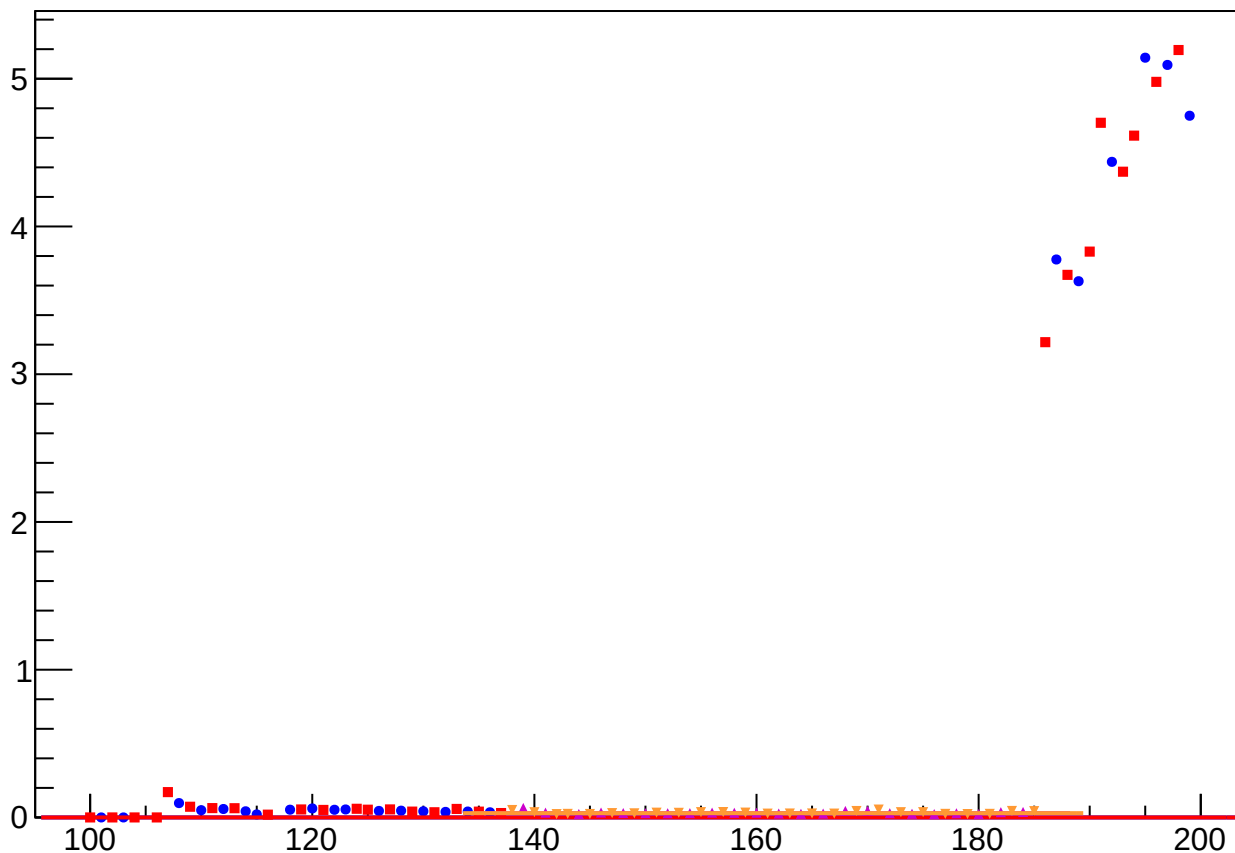
Right: 6.155+/-0.000 χ^2/NDF : 776094075295973.6/47

In: 6.530+/-0.000 χ^2/NDF : 961978112648.7/45

Out: 5.826+/-0.000 χ^2/NDF : 756673268549162.8/45

All: 6.153+/-0.000 χ^2/NDF : 77762750718337.6/92

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 : 19120976.6/26

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

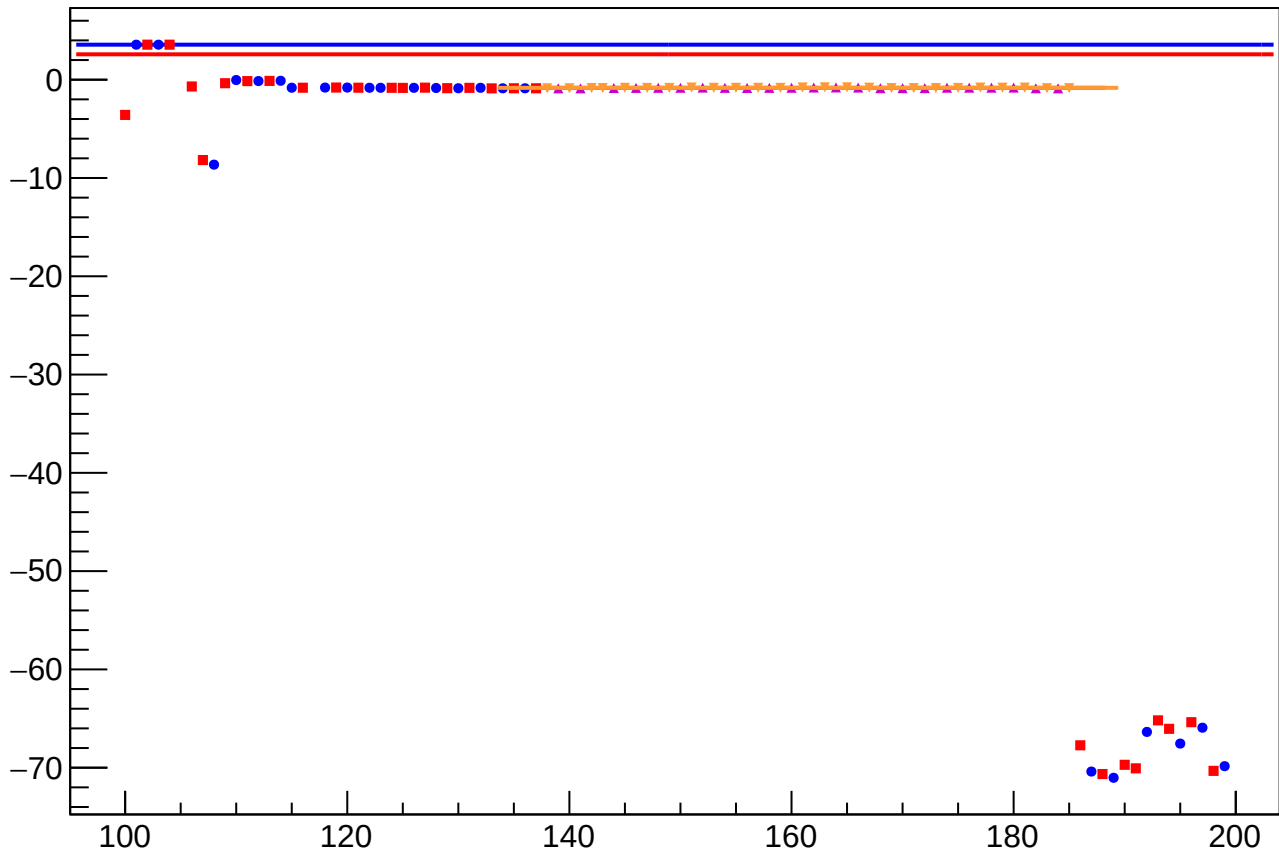
Right: 0.000+/-0.000 χ^2/NDF : 35676667.3/49

In: 0.000+/-0.000 χ^2/NDF :44733247.8/45

Out: 0.000+/-0.000 χ^2/NDF :49089016.6/51

All: 0.000+/-0.000 χ^2/NDF : 93822690.1/97

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 494089380428.3/22

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253519028823756.5/26

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

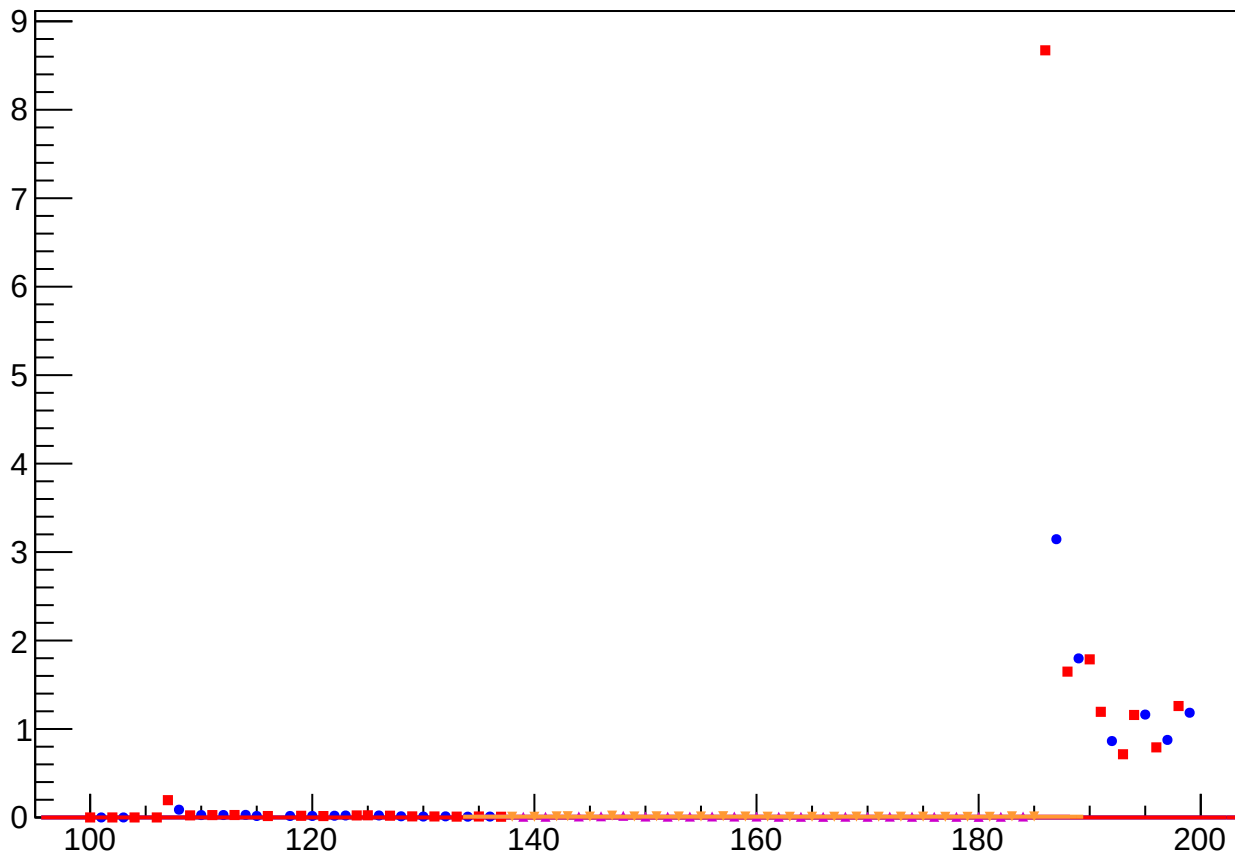
Right: 3.040+/-0.000 χ^2/NDF : 1382284249889781.0

In: 3.560+/-0.000 χ^2/NDF : 4174650395895.1/45

Out: 2.581+/-0.000 χ^2/NDF : 1255749929867743.0

All: 3.038+/-0.000 χ^2/NDF : 13880088111670

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 : 18286672.1/26

Left In: 0.009+/-0.000 χ^2/NDF : 1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

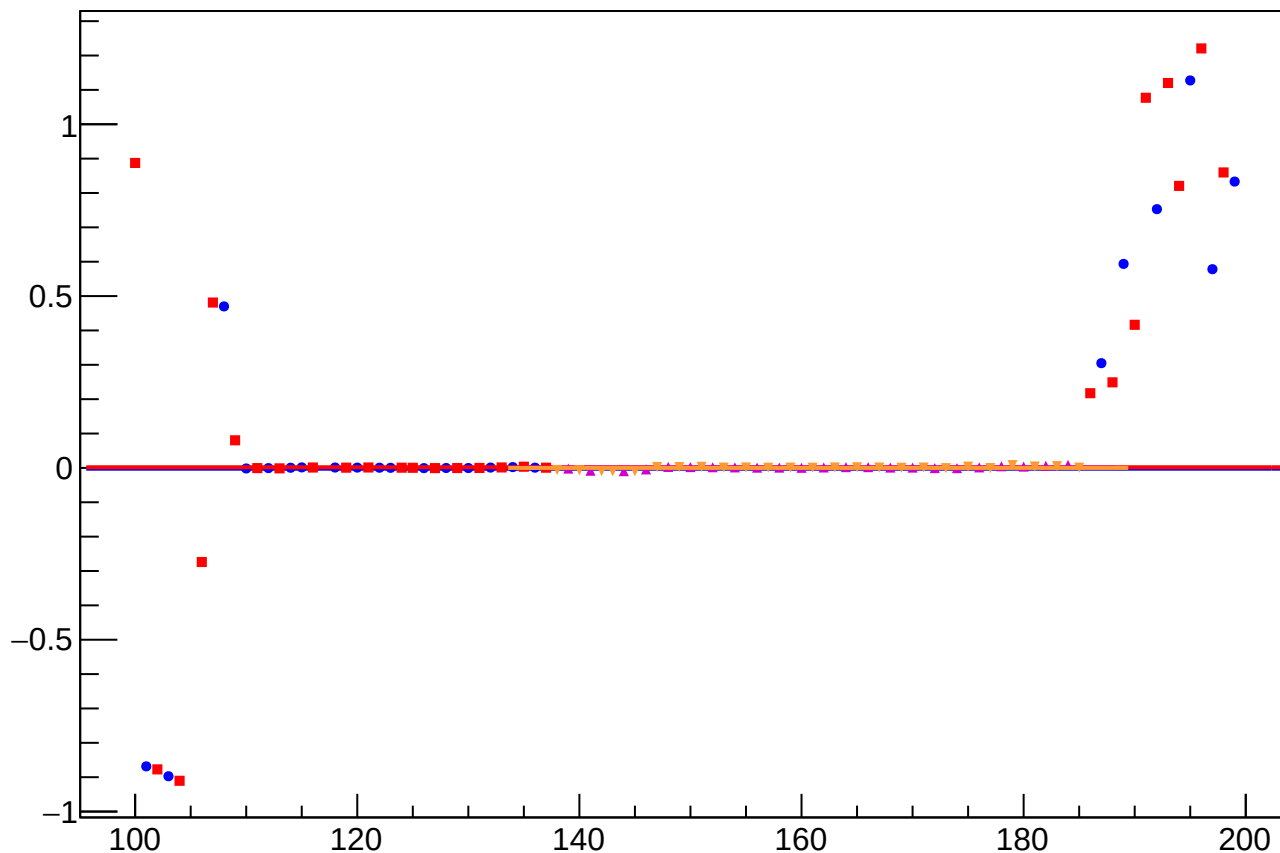
Right: 0.000+/-0.000 χ^2/NDF : 34237987.0/49

In: 0.000+/-0.000 χ^2/NDF : 45748207.4/45

Out: 0.000+/-0.000 χ^2/NDF : 49804829.3/51

All: 0.000+/-0.000 χ^2/NDF : 95553814.5/97

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9795703551.7/22

Left: 0.000+/-0.000 χ^2/NDF : 254489625.0/47

Right: -0.000+/-0.000 χ^2/NDF : 12852320704.5/49

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

In: -0.000+/-0.000 χ^2/NDF : 9908615290.5/45

Right Out: 0.002+/-0.000

χ^2/NDF : 3042470255.6/26

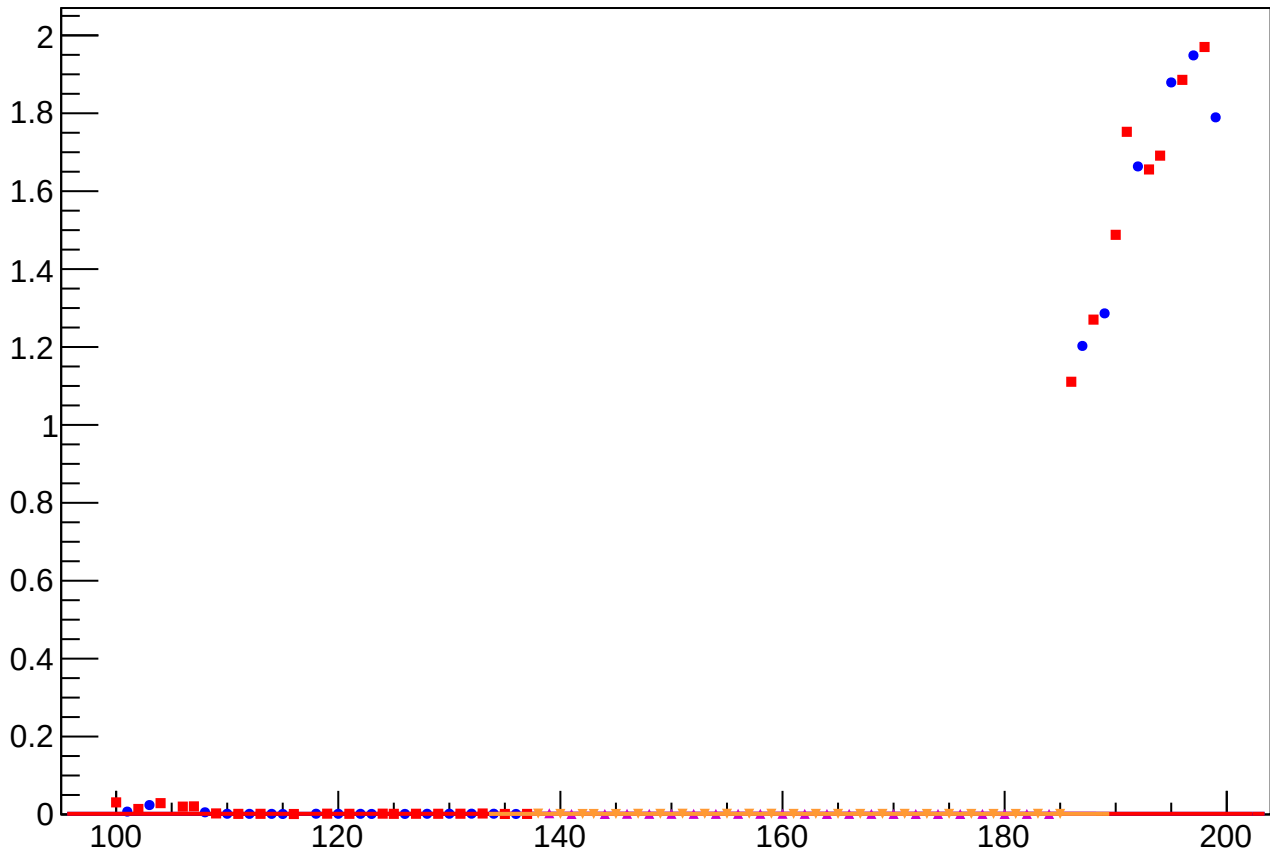
Out: 0.000+/-0.000 χ^2/NDF : 3198704718.4/51

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

All: 0.000+/-0.000 χ^2/NDF : 13107691503.1/9

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 : 12792706.7/26

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

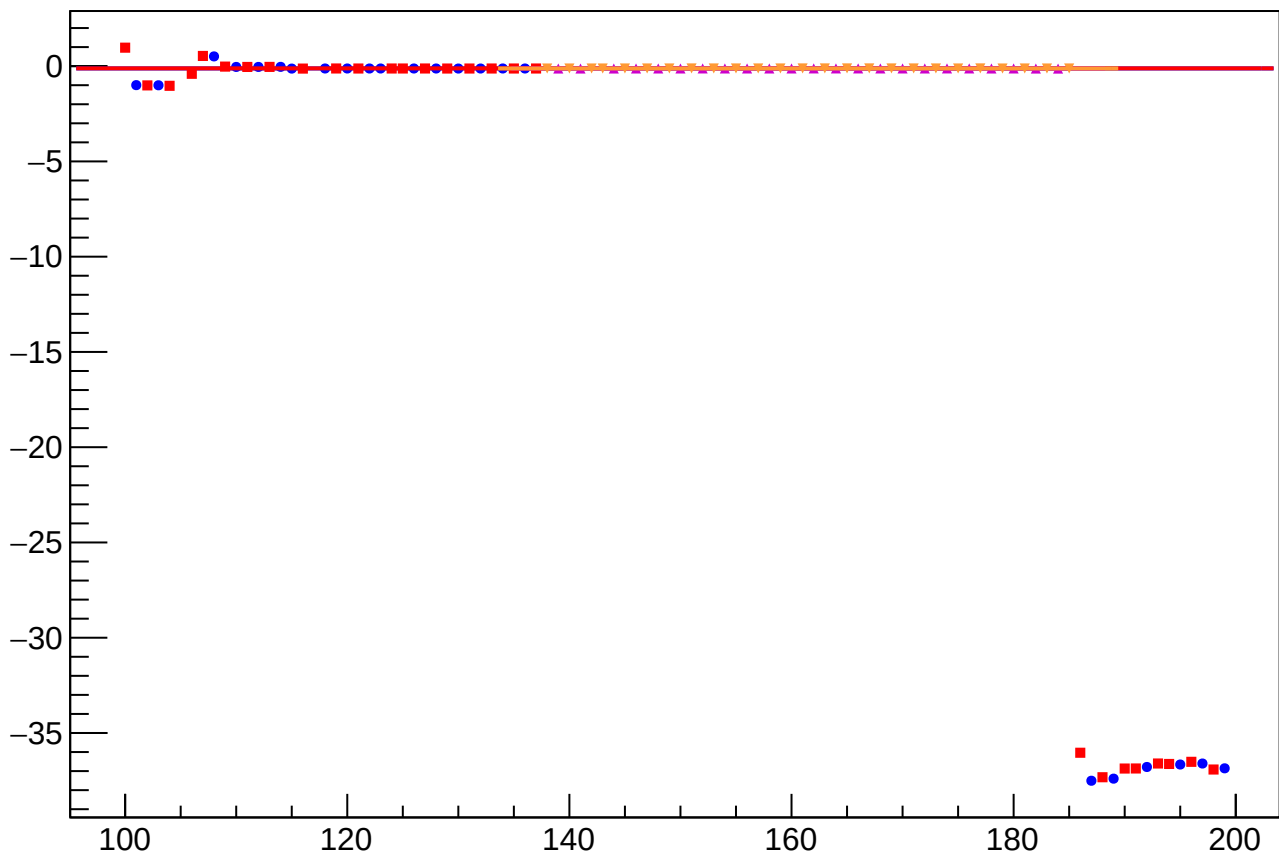
Right: 0.002+/-0.000 χ^2/NDF : 22392147.8/49

In: 0.002+/-0.000 χ^2/NDF :10302987.4/45

Out: 0.002+/-0.000 χ^2/NDF :13467002.9/51

All: 0.002+/-0.000 χ^2/NDF : 23770615.2/97

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 36080113005.6/22

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.116+/-0.000 χ^2/NDF : 43295147595.3/26

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

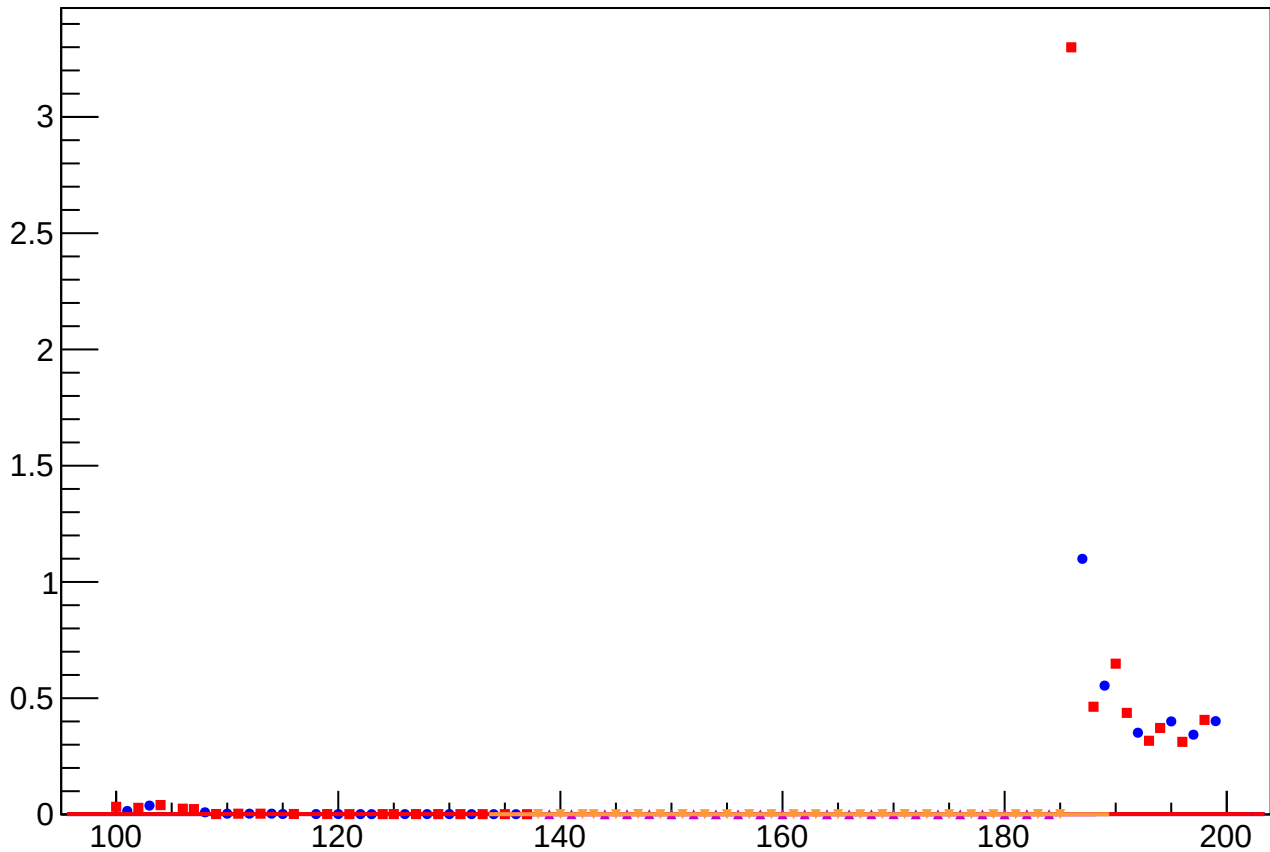
Right: -0.118+/-0.000 χ^2/NDF : 79396937001.5/49

In: -0.121+/-0.000 χ^2/NDF : 36133278402.5/45

Out: -0.121+/-0.000 χ^2/NDF : 43397939616.3/51

All: -0.121+/-0.000 χ^2/NDF : 79532117697.1/100

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 : 12889896.9/26

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

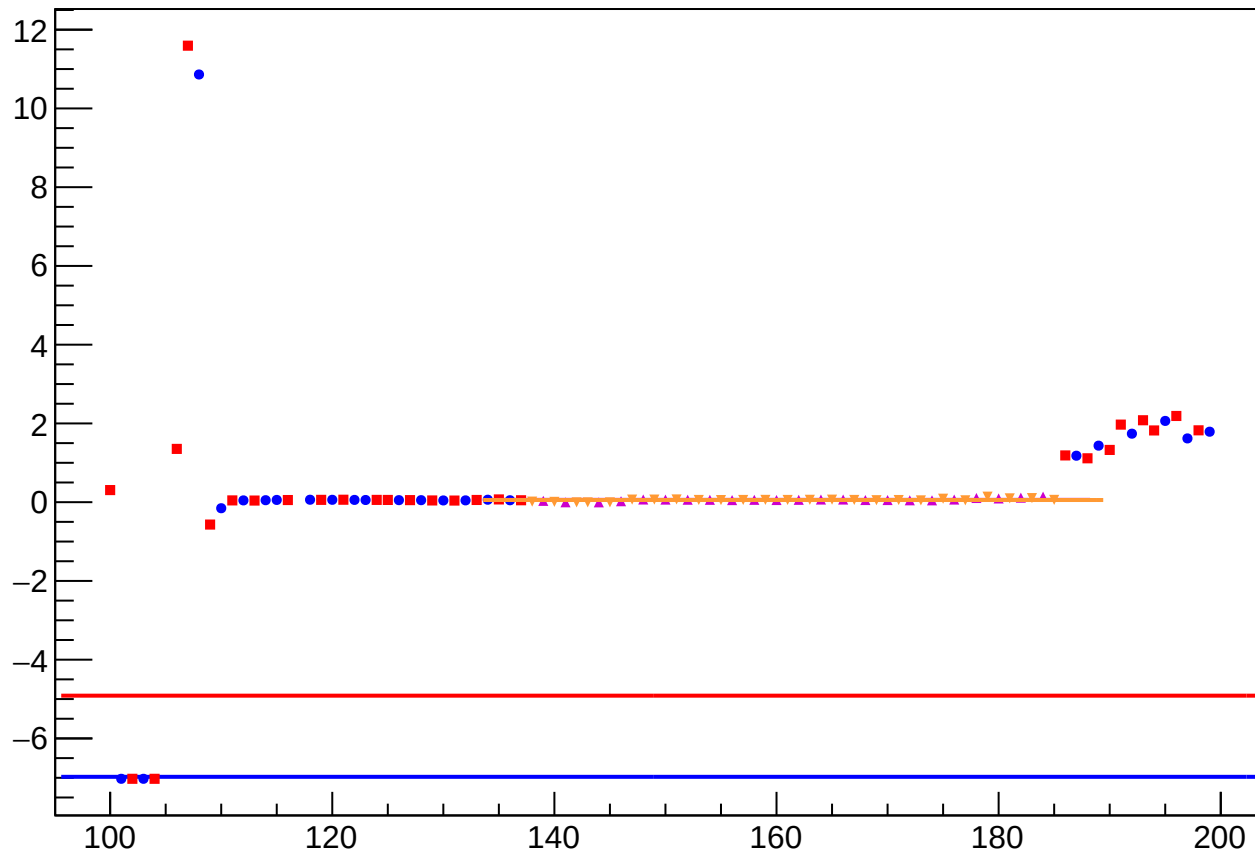
Right: 0.002+/-0.000 χ^2/NDF : 23040283.3/49

In: 0.001+/-0.000 χ^2/NDF :12259581.2/45

Out: 0.001+/-0.000 χ^2/NDF :15417749.3/51

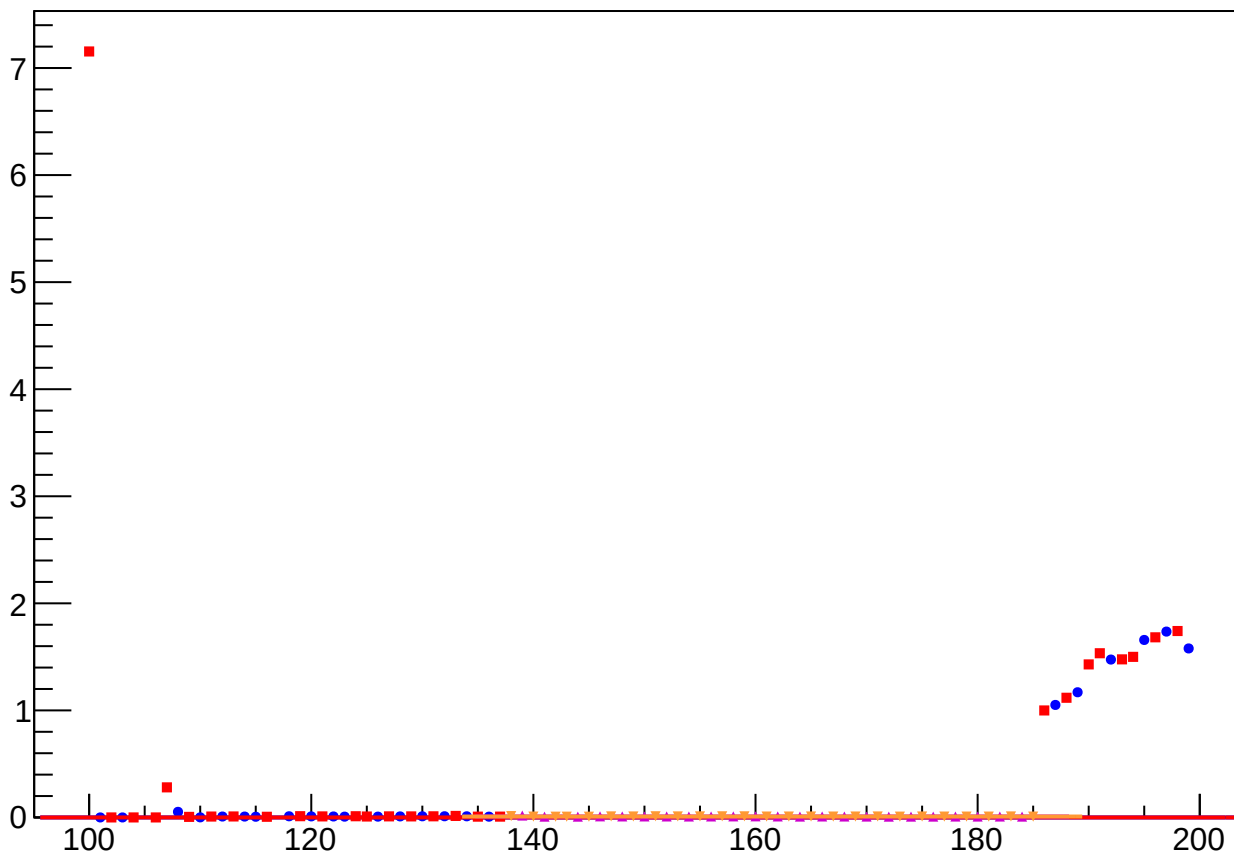
All: 0.001+/-0.000 χ^2/NDF : 27679436.6/97

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 $\chi^2/\text{NDF}: 430303432539531.8$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348641366017.9/26$ 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 $\chi^2/\text{NDF}: 370175328401226.8/26$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435813974314.0/100$

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 : 18545600.2/26

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

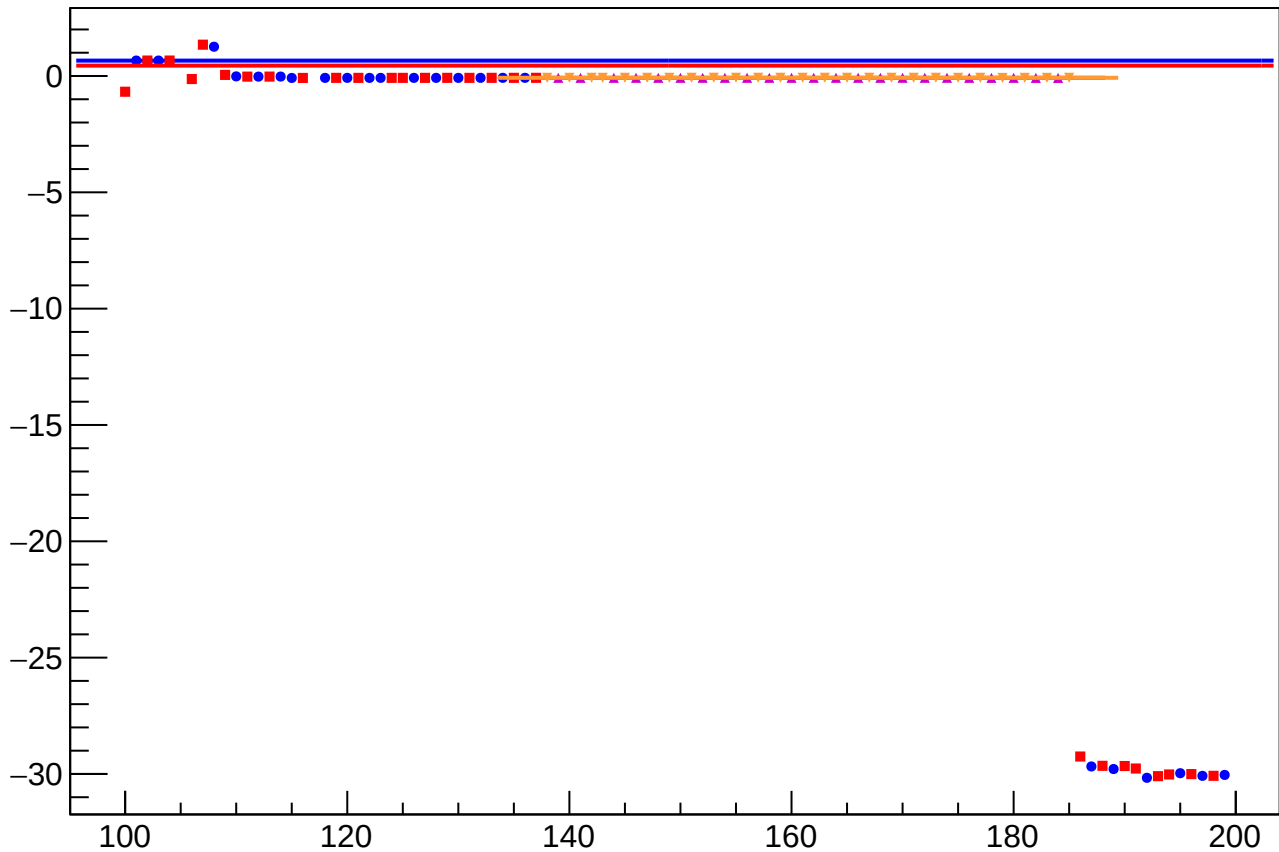
Right: 0.000+/-0.000 χ^2/NDF : 34458570.9/49

In: 0.000+/-0.000 χ^2/NDF : 43549676.6/45

Out: 0.000+/-0.000 χ^2/NDF : 47573876.9/51

All: 0.000+/-0.000 χ^2/NDF : 91124039.9/97

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 : 405454722876639.8/26

Left In: -0.077+/-0.000 χ^2/NDF : 111221084.5/22

Left: -0.078+/-0.000 χ^2/NDF : 267788024.6/47

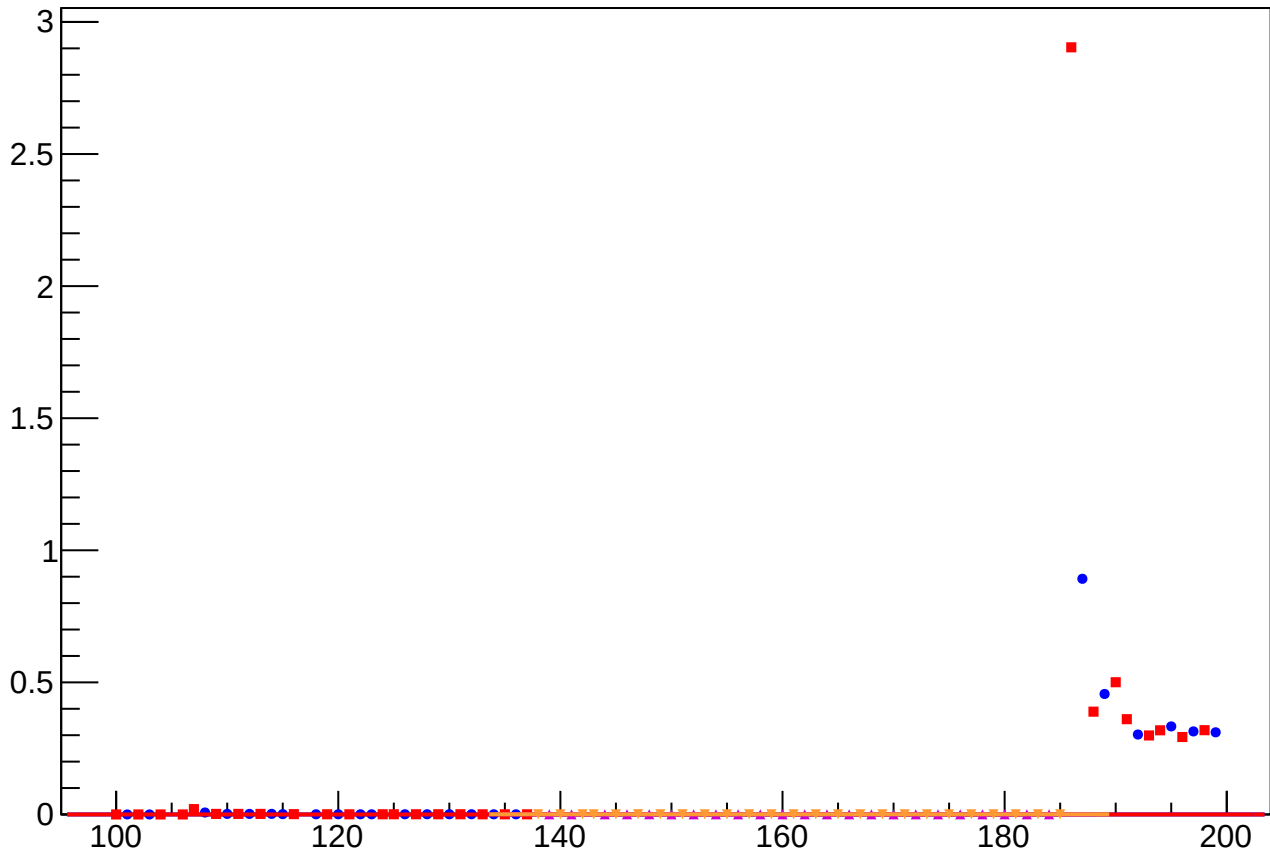
Right: 0.549+/-0.000 χ^2/NDF : 474001979759505.8/47

In: 0.647+/-0.000 χ^2/NDF : 33877988843271.5/45

Out: 0.436+/-0.000 χ^2/NDF : 420649304584678.4/45

All: 0.537+/-0.000 χ^2/NDF : 51605198174277.0/92

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 : 19077424.5/26

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

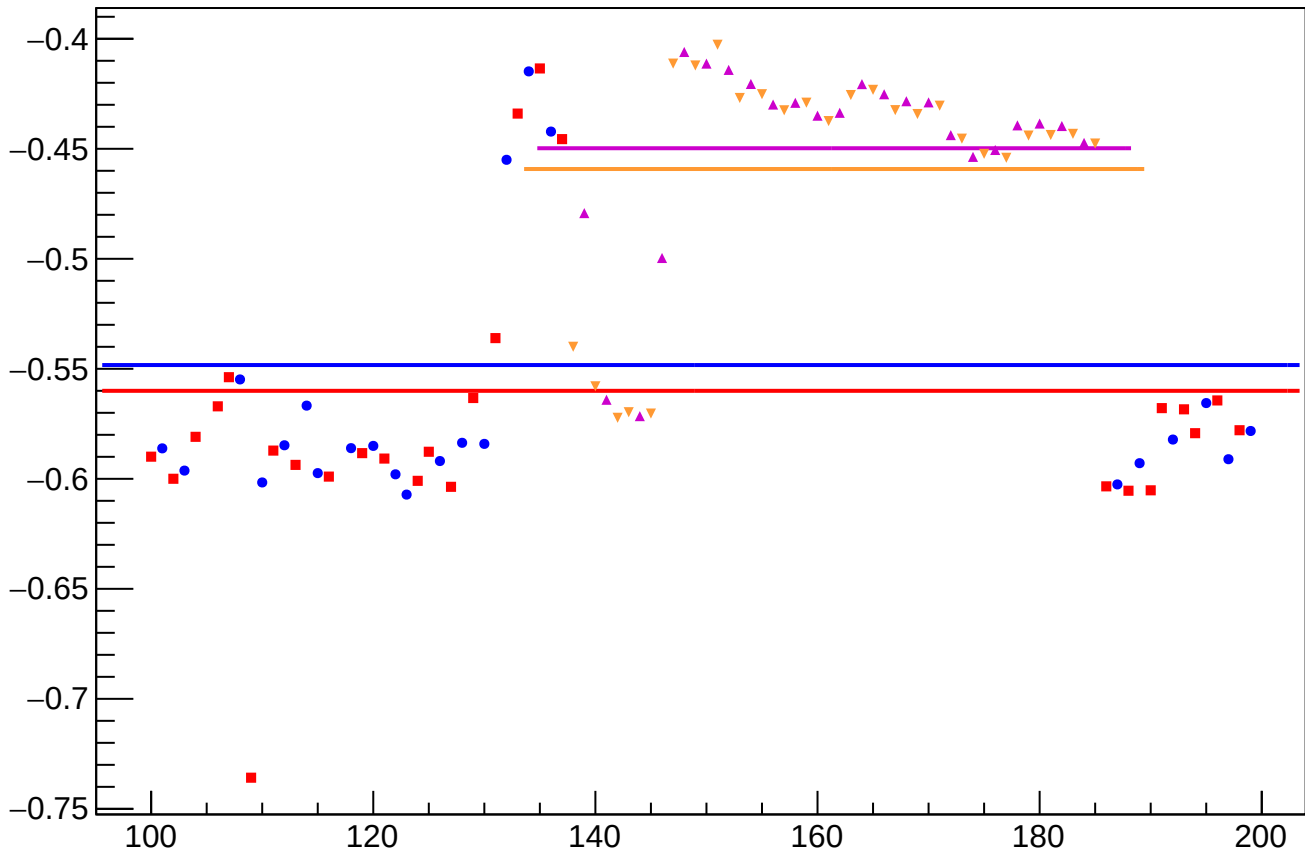
Right: 0.000+/-0.000 χ^2/NDF : 36465696.4/49

In: 0.000+/-0.000 χ^2/NDF : 48366820.2/45

Out: 0.000+/-0.000 χ^2/NDF : 51791457.8/51

All: 0.000+/-0.000 χ^2/NDF : 100158676.5/97

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 47586224.4/22

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.560+/-0.000 χ^2/NDF : 65285580.8/26

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

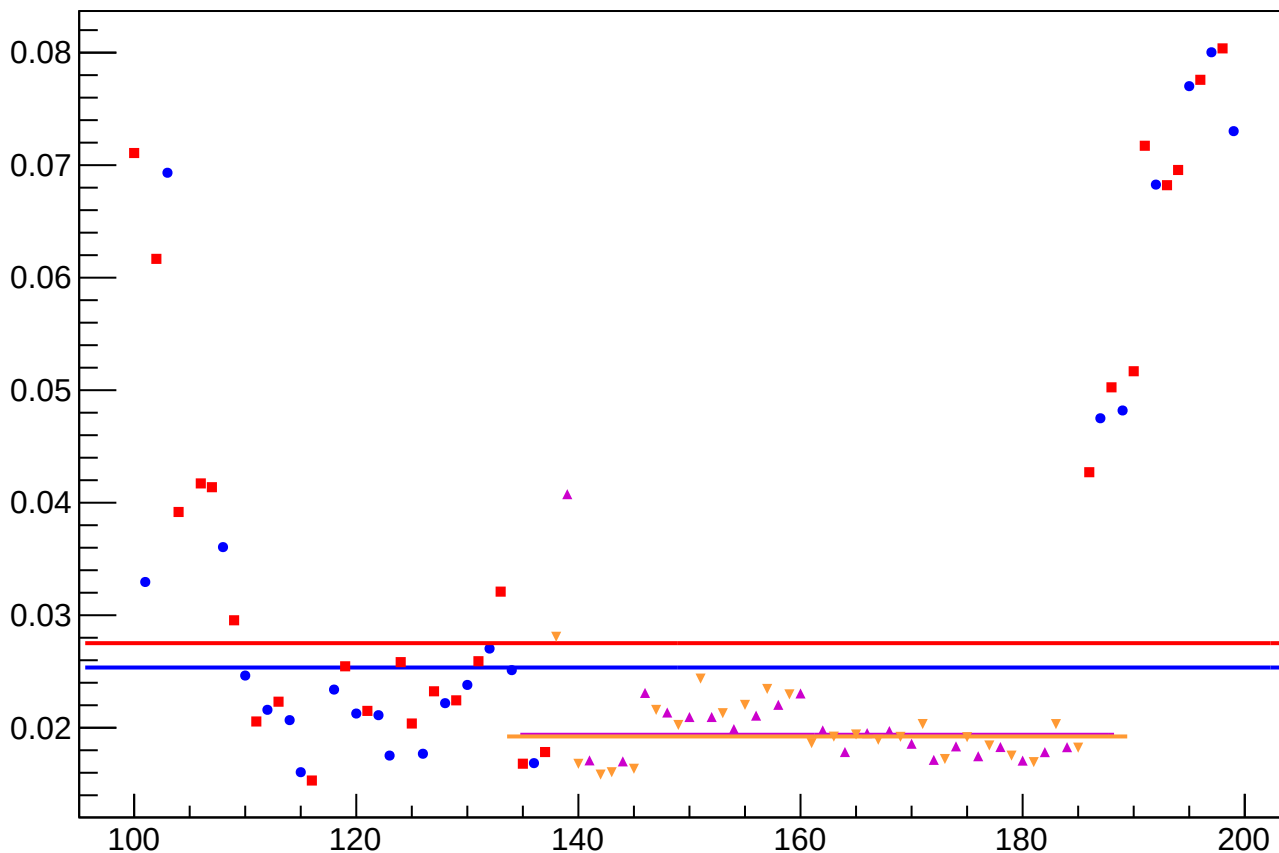
Right: -0.554+/-0.000 χ^2/NDF : 113638113.6/49

In: -0.472+/-0.000 χ^2/NDF : 207538045.5/45

Out: -0.481+/-0.000 χ^2/NDF : 267534385.4/51

All: -0.477+/-0.000 χ^2/NDF : 476878218.9/97

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 : 4726362.2/26

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

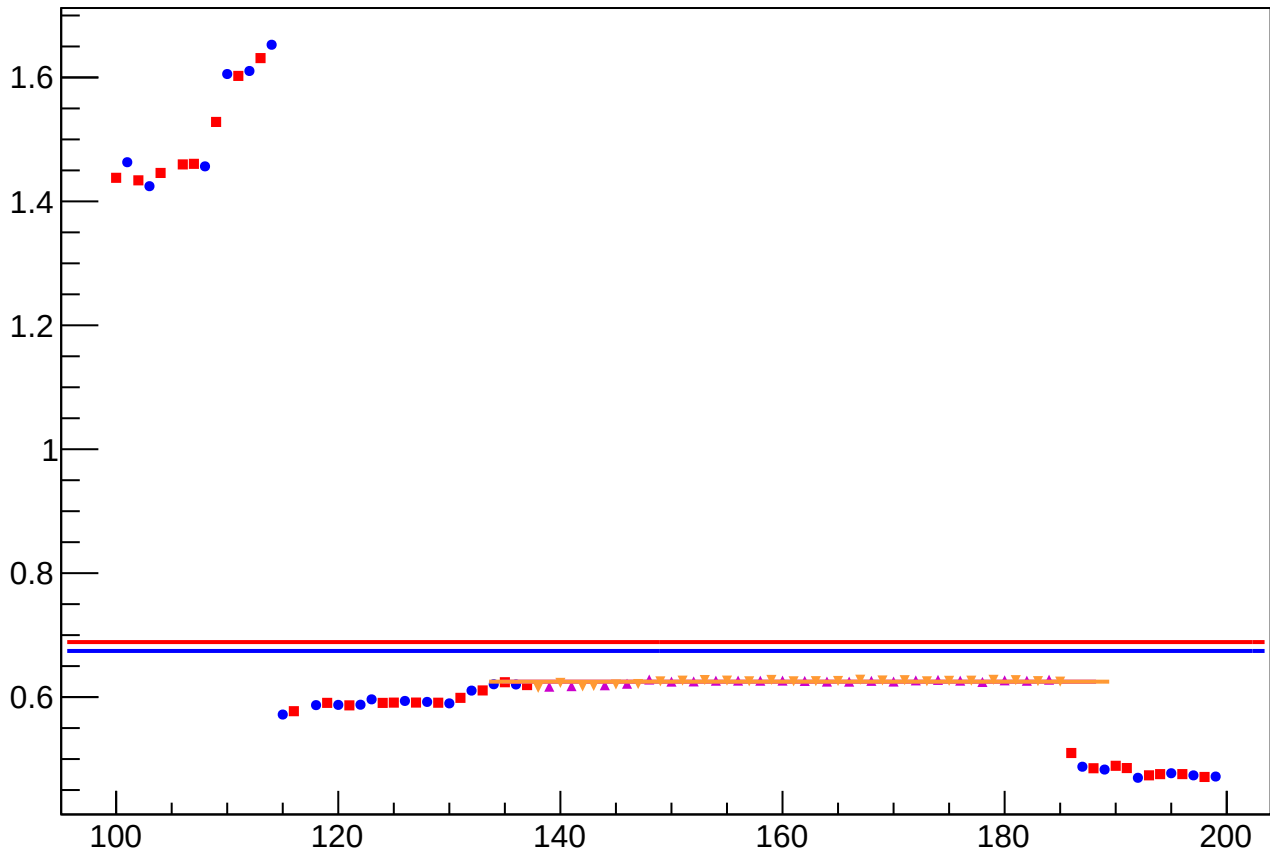
Right: 0.026+/-0.000 χ^2/NDF : 9059904.4/49

In: 0.021+/-0.000 χ^2/NDF : 5554023.4/45

Out: 0.021+/-0.000 χ^2/NDF : 6424277.2/51

All: 0.021+/-0.000 χ^2/NDF : 11981740.8/97

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.674 $\pm$ 0.000 χ^2 /NDF: 4605362305.8/22

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.689 $\pm$ 0.000 χ^2 /NDF: 5601441920.0/26

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1135039.4/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2577573.3/47

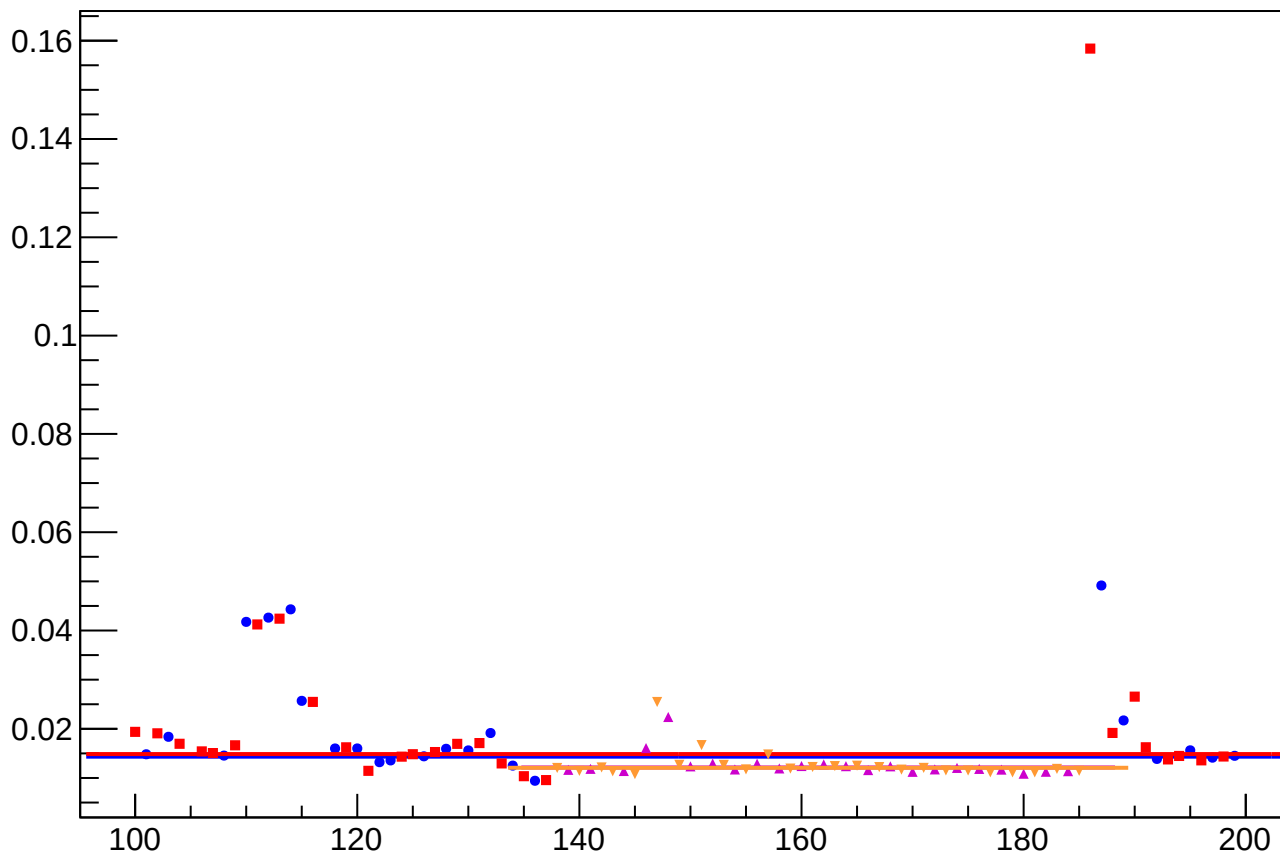
Right: 0.682 $\pm$ 0.000 χ^2 /NDF: 10211520095.7/49

In: 0.639 $\pm$ 0.000 χ^2 /NDF:4685794992.4/45

Out: 0.643 $\pm$ 0.000 χ^2 /NDF:5740947751.6/51

All: 0.641 $\pm$ 0.000 χ^2 /NDF: 10427980884.4/99

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: 2068974.0/26

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

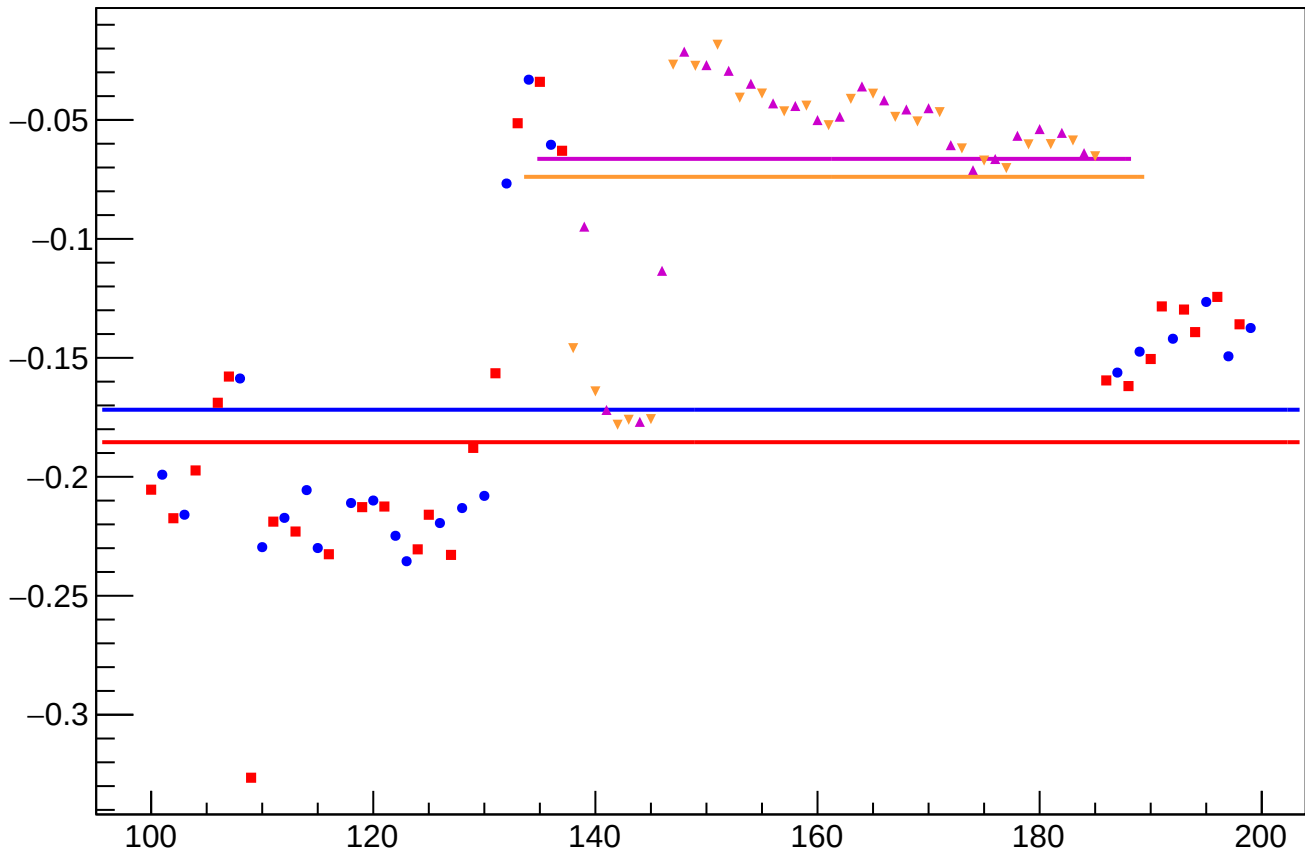
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3721418.0/49

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2440701.9/45

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3253555.7/51

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5695713.0/97

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.172 ± 0.000 $\chi^2/\text{NDF}: 67737193.5/22$

Left Out: -0.074 ± 0.000 $\chi^2/\text{NDF}: 107858881.3/24$

Right Out: -0.185 ± 0.000 $\chi^2/\text{NDF}: 83937477.6/26$

Left In: -0.066 ± 0.000 $\chi^2/\text{NDF}: 76283954.4/22$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 185261776.8/47$

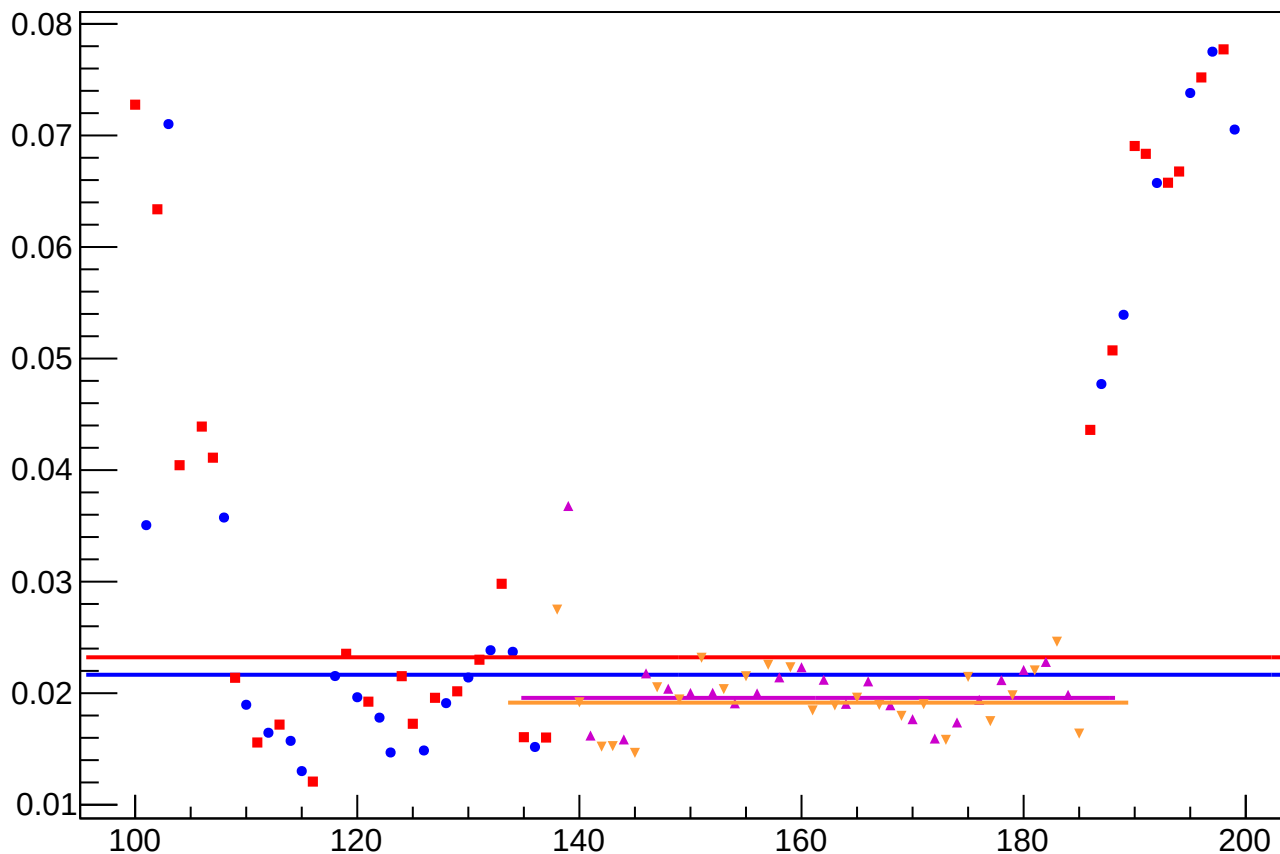
Right: -0.179 ± 0.000 $\chi^2/\text{NDF}: 153039952.7/49$

In: -0.096 ± 0.000 $\chi^2/\text{NDF}: 261304444.9/45$

Out: -0.103 ± 0.000 $\chi^2/\text{NDF}: 326294134.8/51$

All: -0.100 ± 0.000 $\chi^2/\text{NDF}: 588963555.9/97$

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: 0.023+/-0.000 χ^2/NDF : 5788411.7/26

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

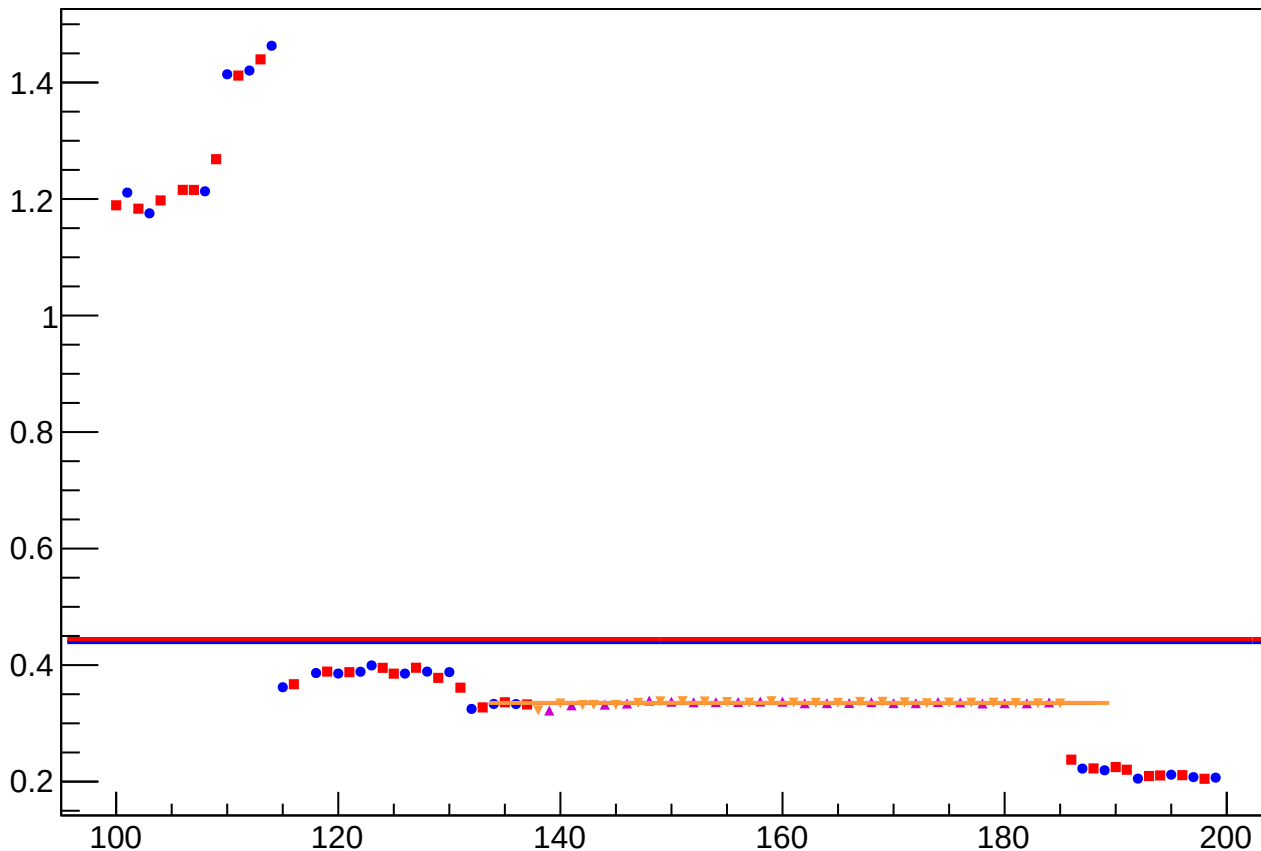
Right: 0.022+/-0.000 χ^2/NDF : 10823373.2/49

In: 0.020+/-0.000 χ^2/NDF : 5741040.1/45

Out: 0.020+/-0.000 χ^2/NDF : 6786572.8/51

All: 0.020+/-0.000 χ^2/NDF : 12527786.1/97

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: 0.445+/-0.000 χ^2/NDF : 7858681203.0/26

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

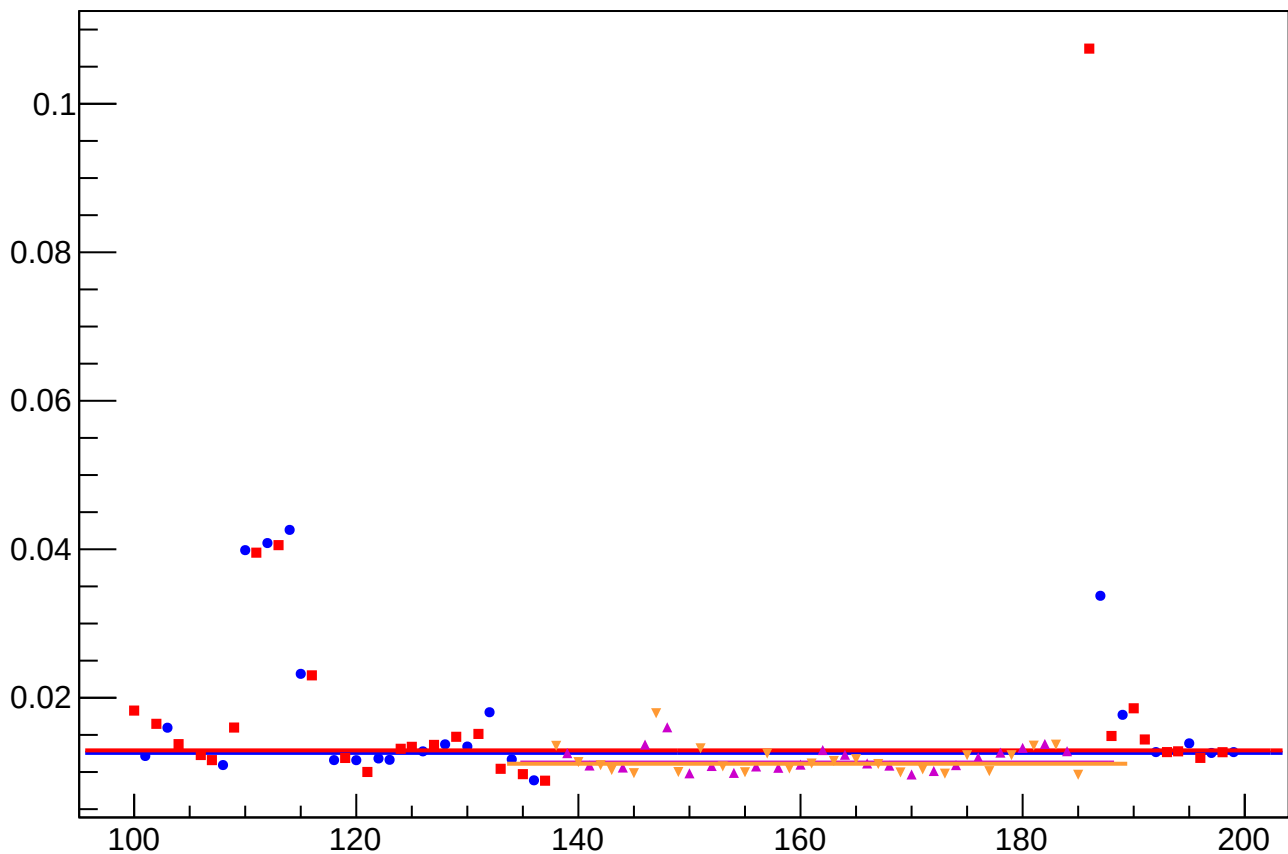
Right: 0.442+/-0.000 χ^2/NDF : 14604873090.7/49

In: 0.367+/-0.000 χ^2/NDF :7187263305.3/45

Out: 0.369+/-0.000 χ^2/NDF :8379621972.2/51

All: 0.368+/-0.000 χ^2/NDF : 15567035811.4/99

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 1508891.1/22

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:608235.7/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1928564.3/26

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:502226.7/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1113859.9/47

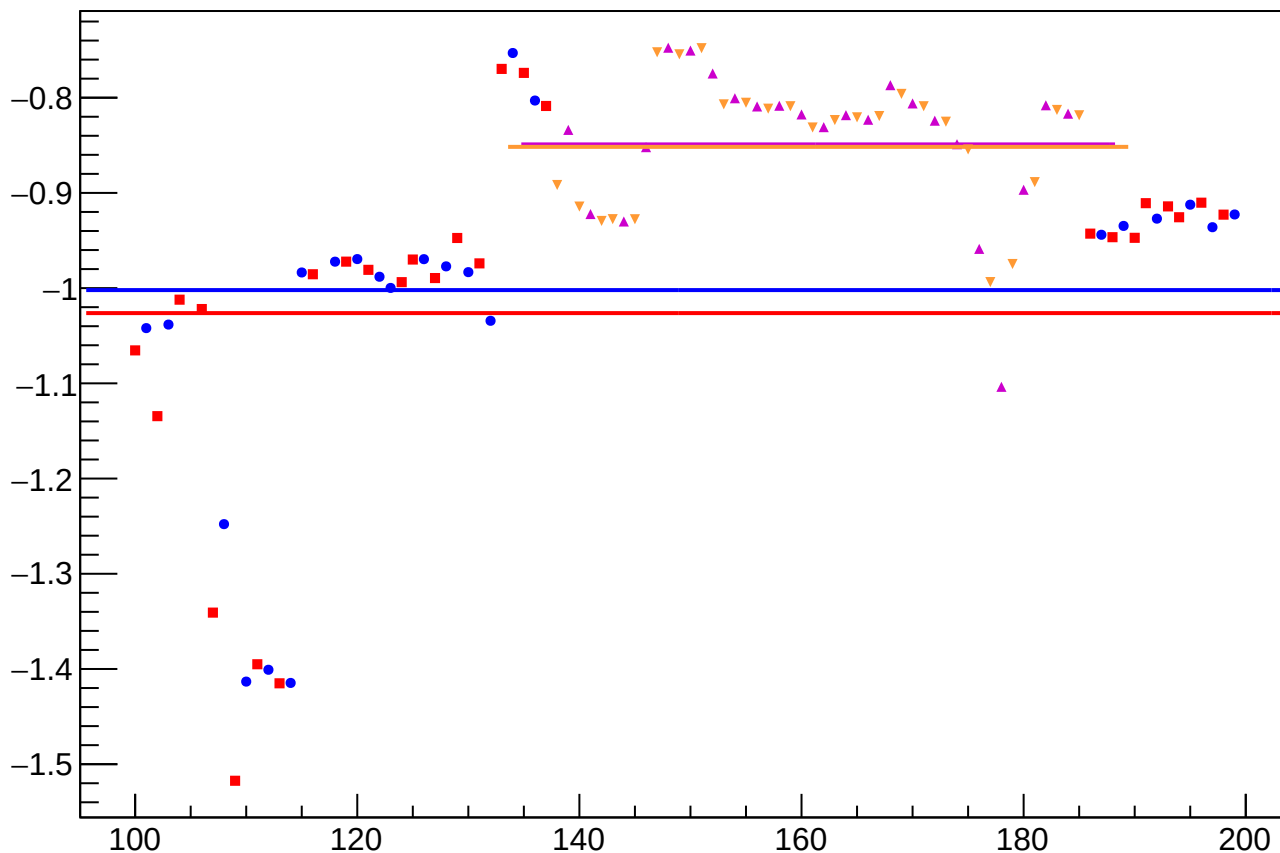
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3444250.6/49

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2148823.3/45

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2816102.6/51

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4964962.1/97

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.002 ± 0.000 χ^2/NDF : 398429052.8/22

Left Out: -0.852 ± 0.000 χ^2/NDF : 189276591.7/24

Right Out: -1.026 ± 0.000 χ^2/NDF : 548256756.4/26

Left In: -0.849 ± 0.000 χ^2/NDF : 256438306.8/22

Left: -0.850 ± 0.000 χ^2/NDF : 445849768.4/47

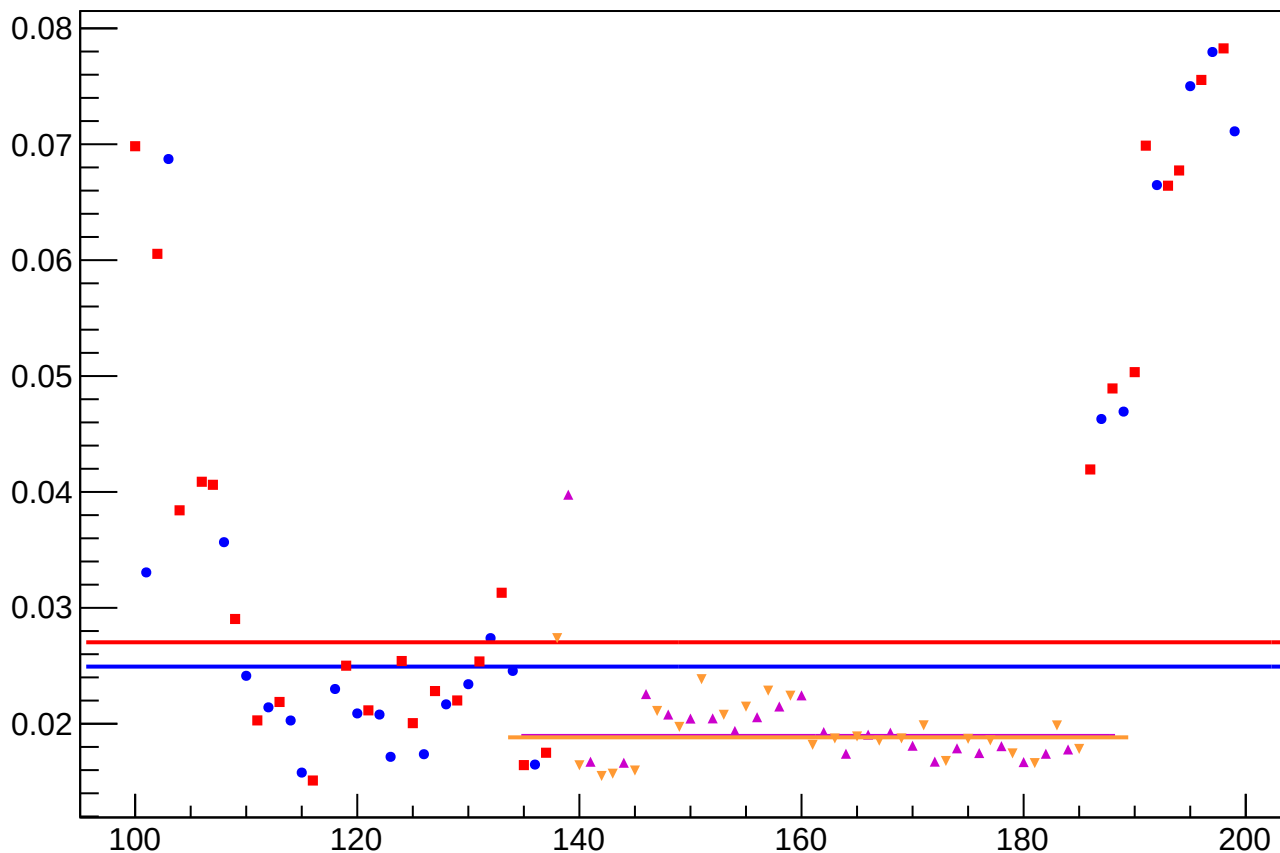
Right: -1.014 ± 0.000 χ^2/NDF : 950062861.5/49

In: -0.884 ± 0.000 χ^2/NDF : 864503853.4/45

Out: -0.889 ± 0.000 χ^2/NDF : 1012911286.6/51

All: -0.887 ± 0.000 χ^2/NDF : 1878115241.4/9

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.025 $\pm$ 0.000 χ^2/NDF : 4274210.1/22

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 490084.5/24

Right Out: 0.027 $\pm$ 0.000 χ^2/NDF : 4686562.2/26

Left In: 0.019 $\pm$ 0.000 χ^2/NDF : 645048.1/22

Left: 0.019 $\pm$ 0.000 χ^2/NDF : 1135735.6/47

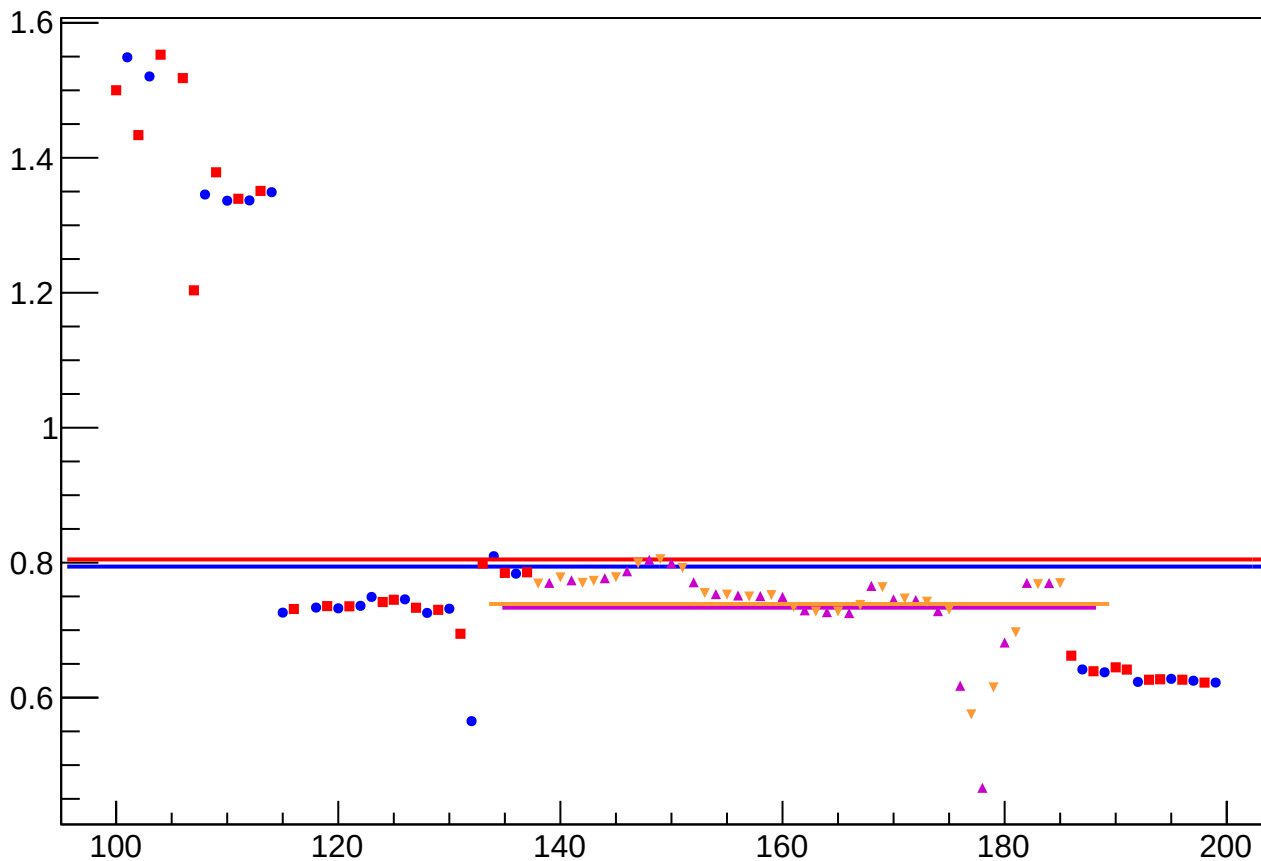
Right: 0.026 $\pm$ 0.000 χ^2/NDF : 9011665.7/49

In: 0.020 $\pm$ 0.000 χ^2/NDF : 5560155.7/45

Out: 0.021 $\pm$ 0.000 χ^2/NDF : 6392148.1/51

All: 0.020 $\pm$ 0.000 χ^2/NDF : 11956275.8/97

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.794+/-0.000 χ^2/NDF : 3146246558.9/22

Left Out: 0.739+/-0.000 χ^2/NDF :333086309.0/24

Right Out: 0.805+/-0.000 χ^2/NDF : 3446305332.5/26

Left In: 0.733+/-0.000 χ^2/NDF :570264411.7/22

Left: 0.736+/-0.000 χ^2/NDF : 905100069.4/47

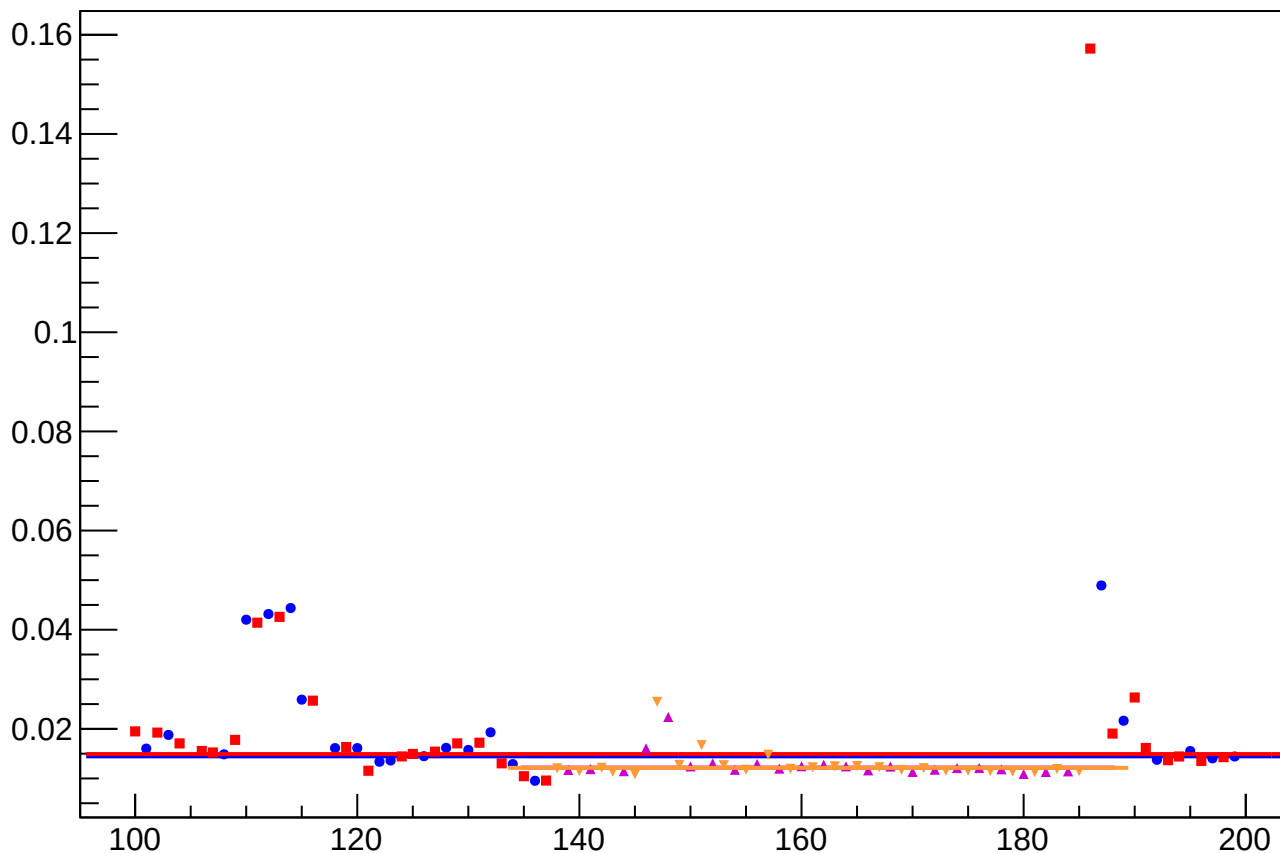
Right: 0.800+/-0.000 χ^2/NDF : 6595085093.9/49

In: 0.750+/-0.000 χ^2/NDF :3833829724.6/45

Out: 0.757+/-0.000 χ^2/NDF :3925063918.1/51

All: 0.754+/-0.000 χ^2/NDF : 7762726646.4/97

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 : 2073659.0/26

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

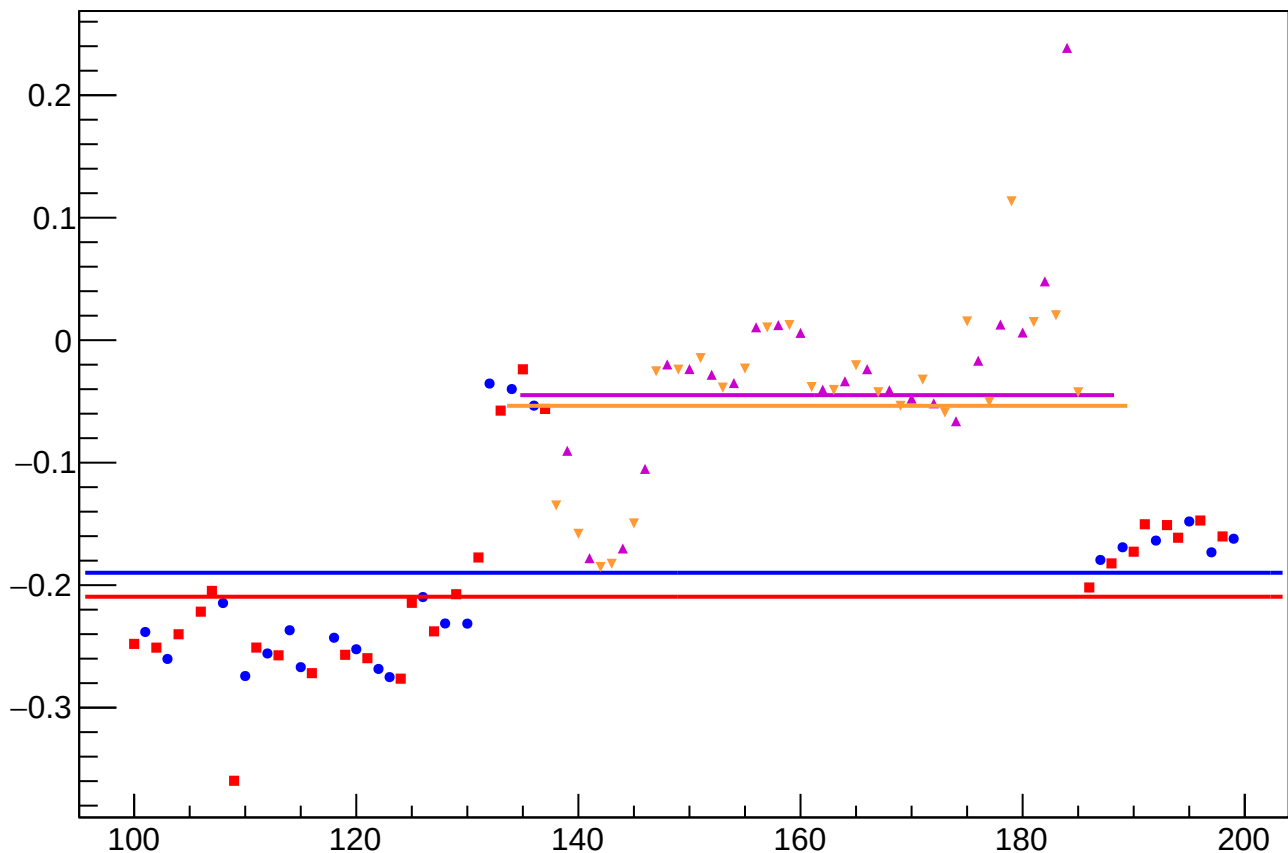
Right: 0.015+/-0.000 χ^2/NDF : 3724157.7/49

In: 0.013+/-0.000 χ^2/NDF : 2448734.6/45

Out: 0.013+/-0.000 χ^2/NDF : 3228123.9/51

All: 0.013+/-0.000 χ^2/NDF : 5678227.8/97

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190 ± 0.000 $\chi^2/\text{NDF}: 106612354.4/22$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167879648.0/24$

Right Out: -0.209 ± 0.000 $\chi^2/\text{NDF}: 112111484.3/26$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

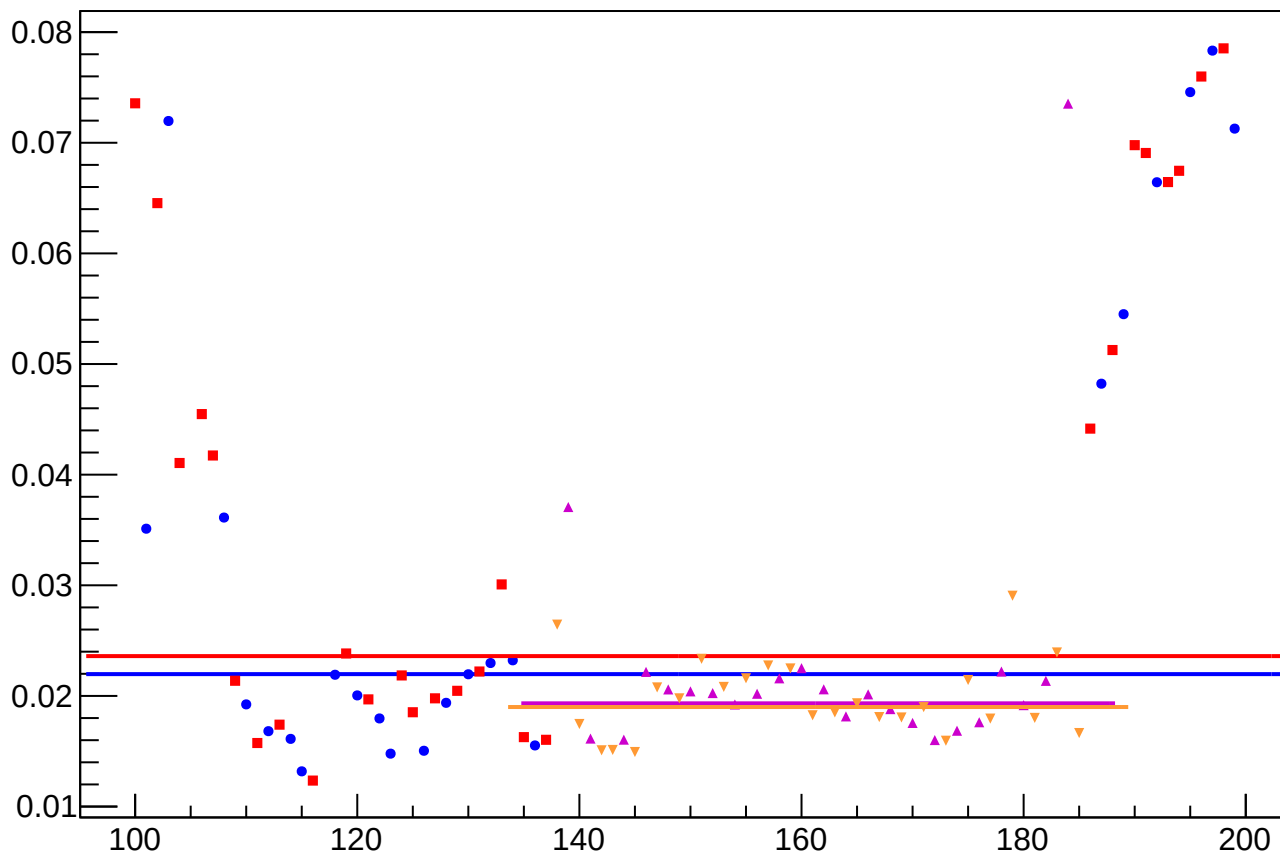
Right: -0.200 ± 0.000 $\chi^2/\text{NDF}: 221449774.2/49$

In: -0.085 ± 0.000 $\chi^2/\text{NDF}: 451222572.1/45$

Out: -0.094 ± 0.000 $\chi^2/\text{NDF}: 535448478.0/51$

All: -0.090 ± 0.000 $\chi^2/\text{NDF}: 988794003.4/97$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.000 χ^2 /NDF: 4957280.4/22

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 699267.5/24

Right Out: 0.024 $\pm$ 0.000 χ^2 /NDF: 5755910.8/26

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 892810.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1596405.3/47

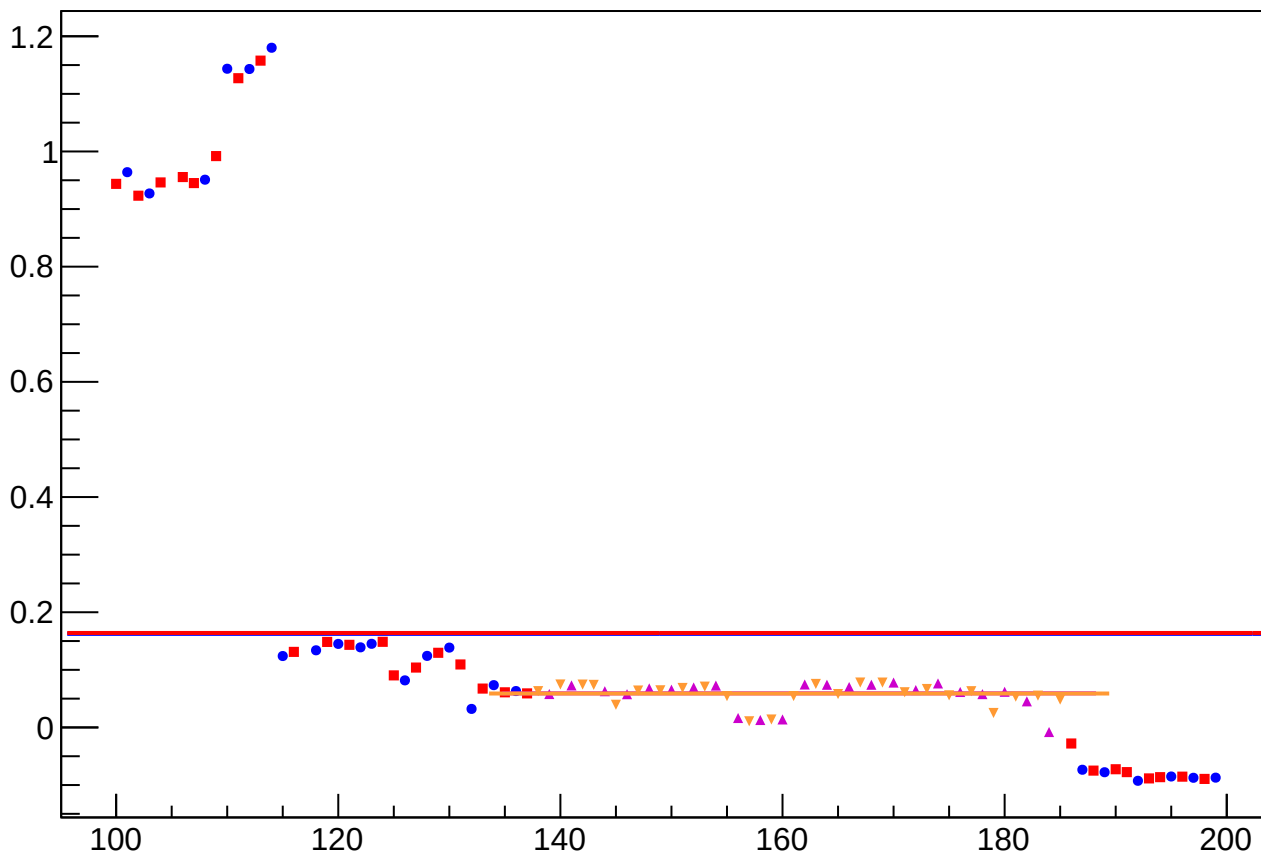
Right: 0.023 $\pm$ 0.000 χ^2 /NDF: 10750964.5/49

In: 0.020 $\pm$ 0.000 χ^2 /NDF: 5994245.2/45

Out: 0.020 $\pm$ 0.000 χ^2 /NDF: 6900801.7/51

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 12895914.4/97

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.162 $\pm$ 0.000 χ^2 /NDF: 7225148107.1/22

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46902918.4/24

Right Out: 0.164 $\pm$ 0.000 χ^2 /NDF: 8230505044.0/26

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58640898.5/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105549886.8/47

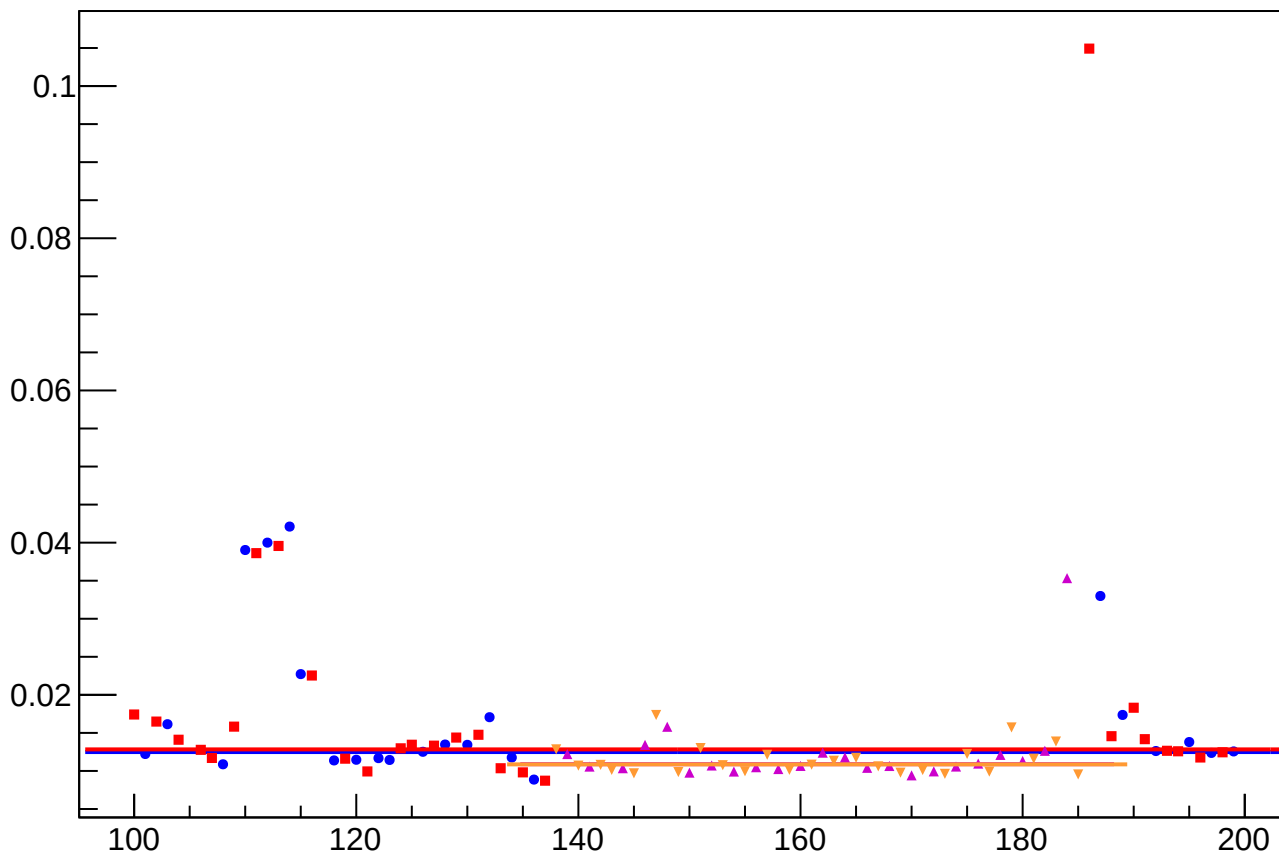
Right: 0.163 $\pm$ 0.000 χ^2 /NDF: 15455726614.3/49

In: 0.090 $\pm$ 0.000 χ^2 /NDF: 7726204181.8/45

Out: 0.091 $\pm$ 0.000 χ^2 /NDF: 8761493015.2/51

All: 0.091 $\pm$ 0.000 χ^2 /NDF: 16487709911.6/9

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: 1887585.2/26

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

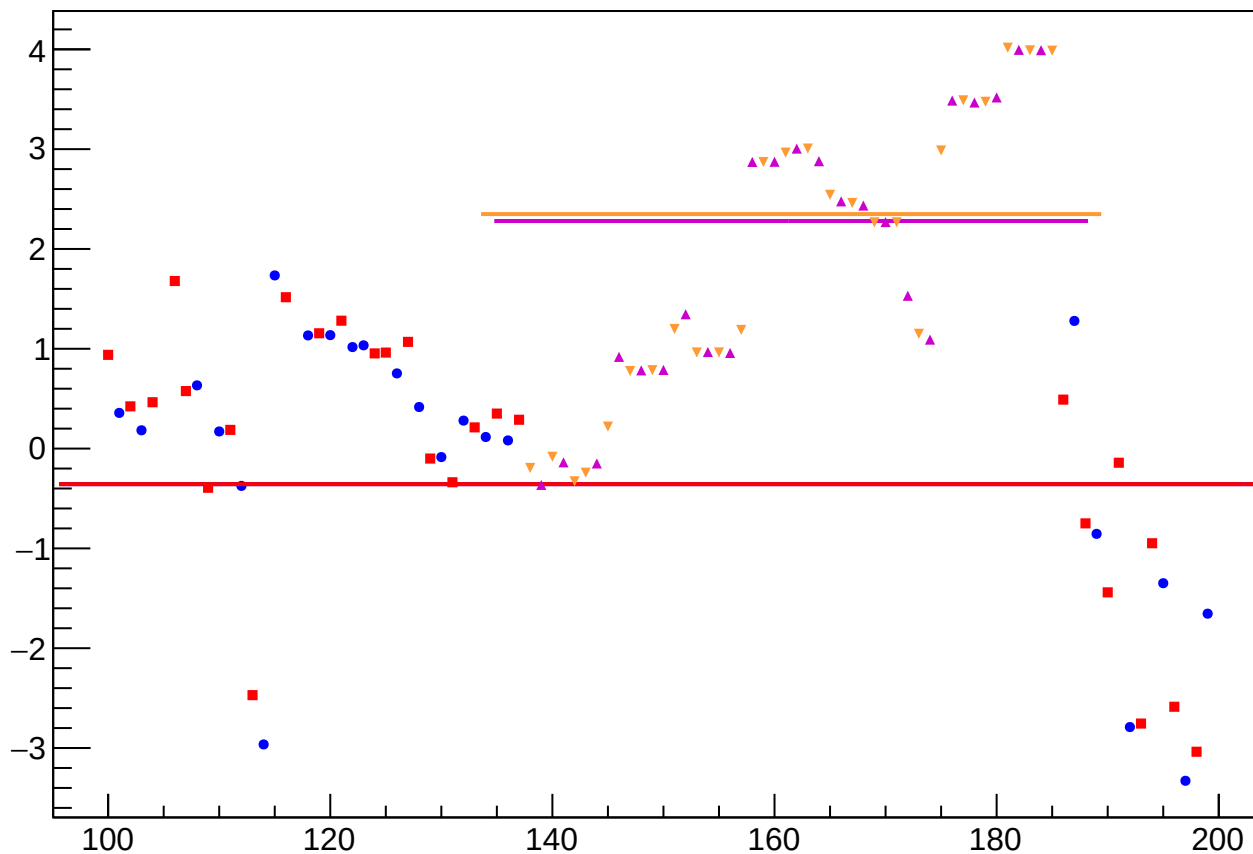
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3370975.3/49

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2215999.8/45

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2832118.2/51

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5049676.7/97

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: -0.356+/-0.000 χ^2/NDF : 5334113373.0/26

Left In: 2.280+/-0.000 χ^2/NDF : 61444254541.3/22

Left: 2.314+/-0.000 χ^2/NDF : 125168787170.9/47

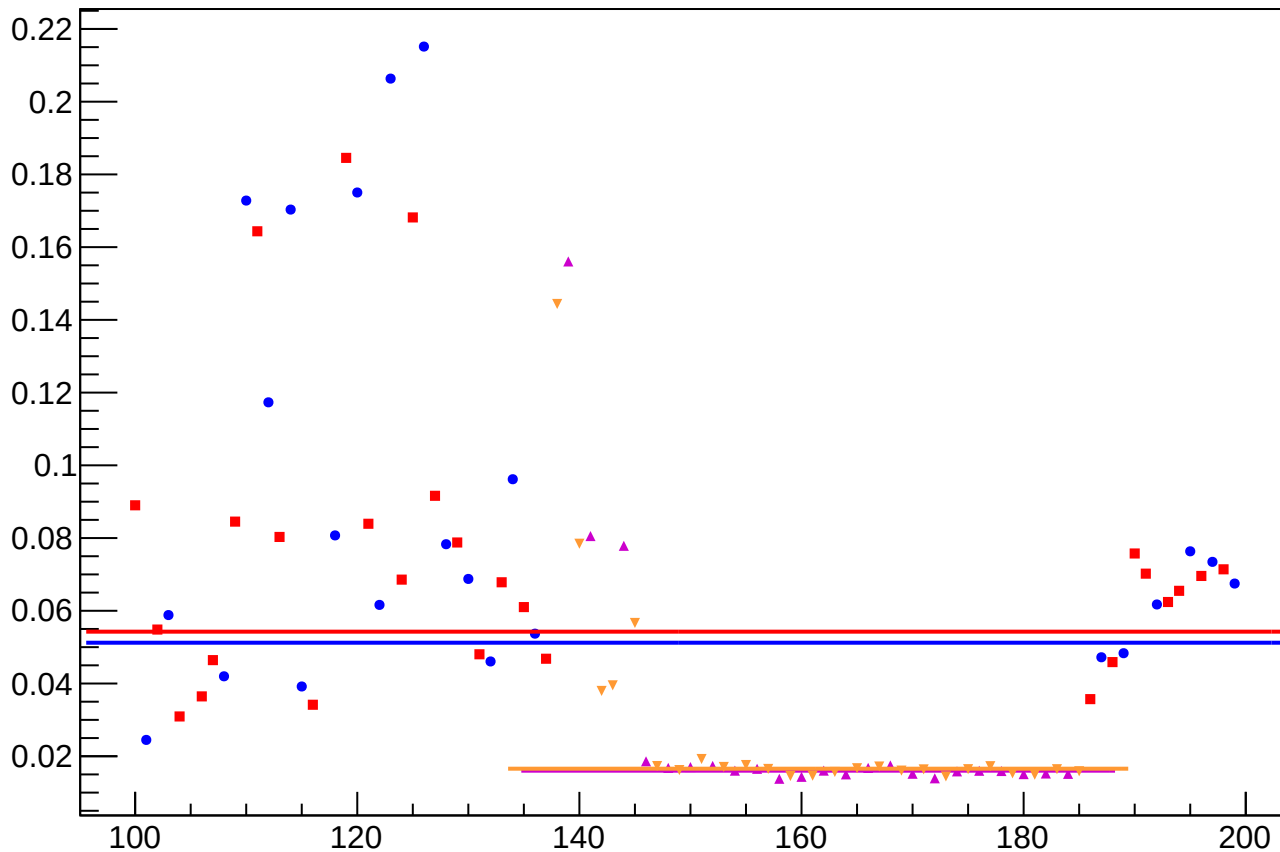
Right: -0.356+/-0.000 χ^2/NDF : 9718085405.3/49

In: 2.153+/-0.000 χ^2/NDF : 83359500767.0/45

Out: 2.204+/-0.000 χ^2/NDF : 89115546641.7/51

All: 2.178+/-0.000 χ^2/NDF : 172545410753.9

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: 0.054+/-0.000 χ^2/NDF : 2730869.8/26

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

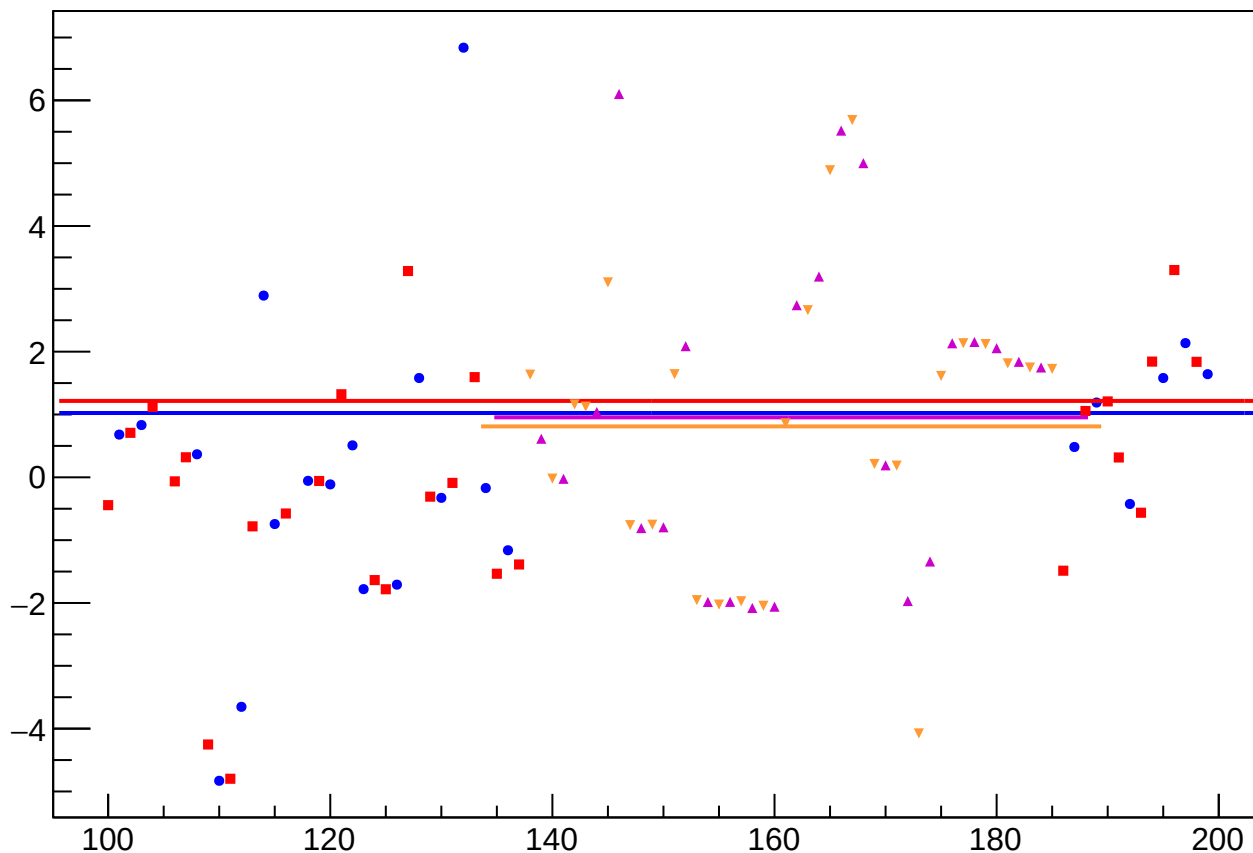
Right: 0.053+/-0.000 χ^2/NDF : 6125910.0/49

In: 0.018+/-0.000 χ^2/NDF : 12078726.4/45

Out: 0.019+/-0.000 χ^2/NDF : 13184878.0/51

All: 0.018+/-0.000 χ^2/NDF : 25305564.7/97

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: 1.124+/-0.000 χ^2/NDF : 43193048866.6/49

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: 1.216+/-0.000

χ^2/NDF : 23507563422.7/26

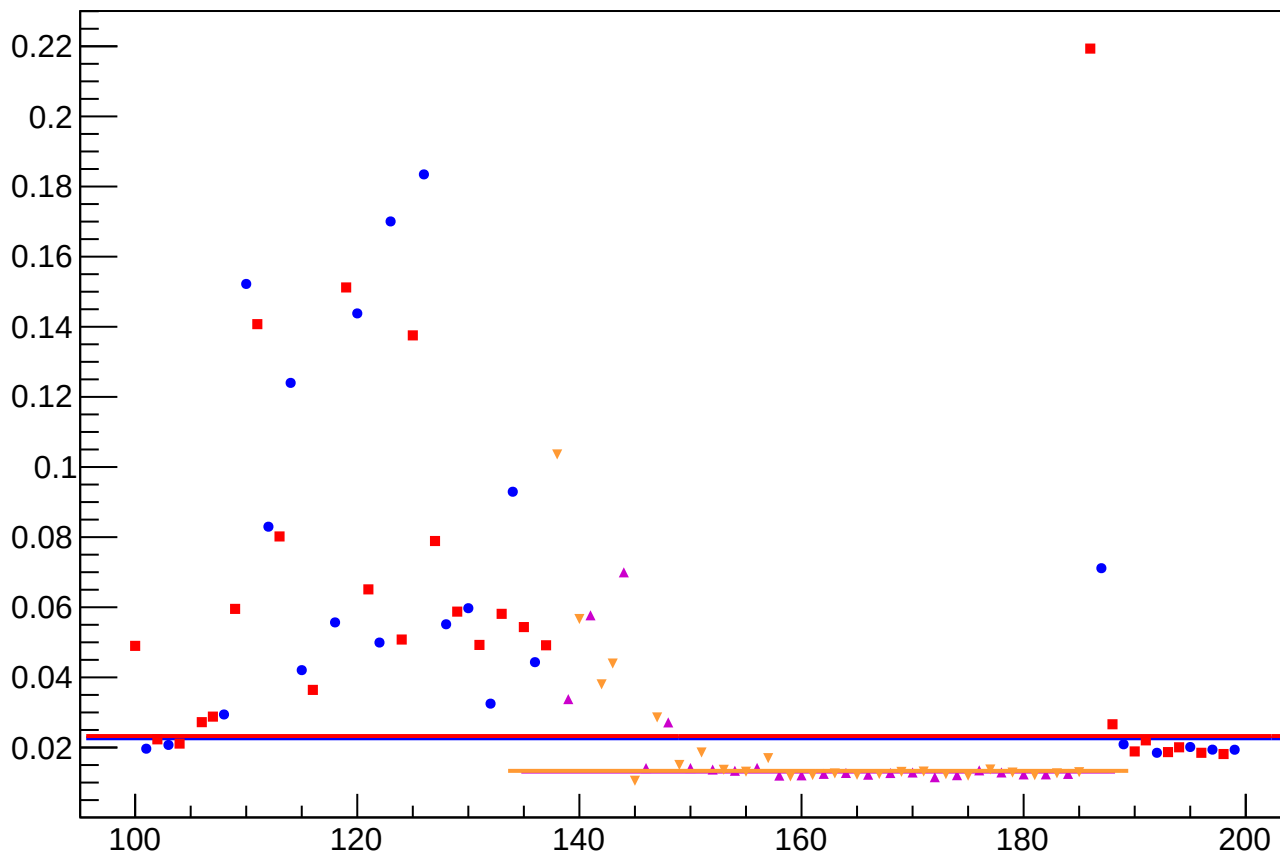
Out: 0.866+/-0.000 χ^2/NDF : 533024505509.0/51

Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

All: 0.915+/-0.000 χ^2/NDF : 1127775619806.

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 : 4694240.9/26

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

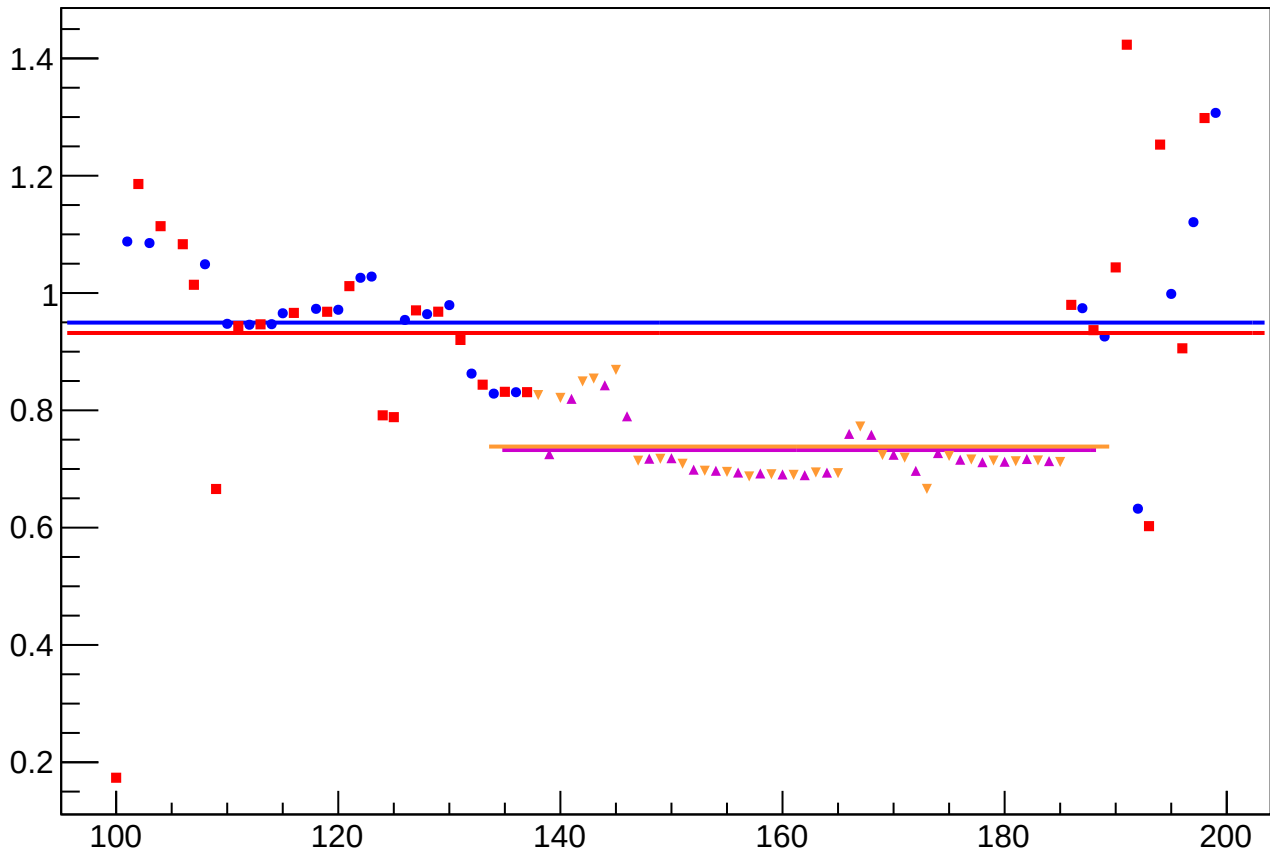
Right: 0.023+/-0.000 χ^2/NDF : 8334467.0/49

In: 0.014+/-0.000 χ^2/NDF : 7583175.9/45

Out: 0.015+/-0.000 χ^2/NDF : 9839583.9/51

All: 0.015+/-0.000 χ^2/NDF : 17435476.9/97

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: 0.932 $\pm$ 0.000 χ^2 /NDF: 729818250.2/26

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

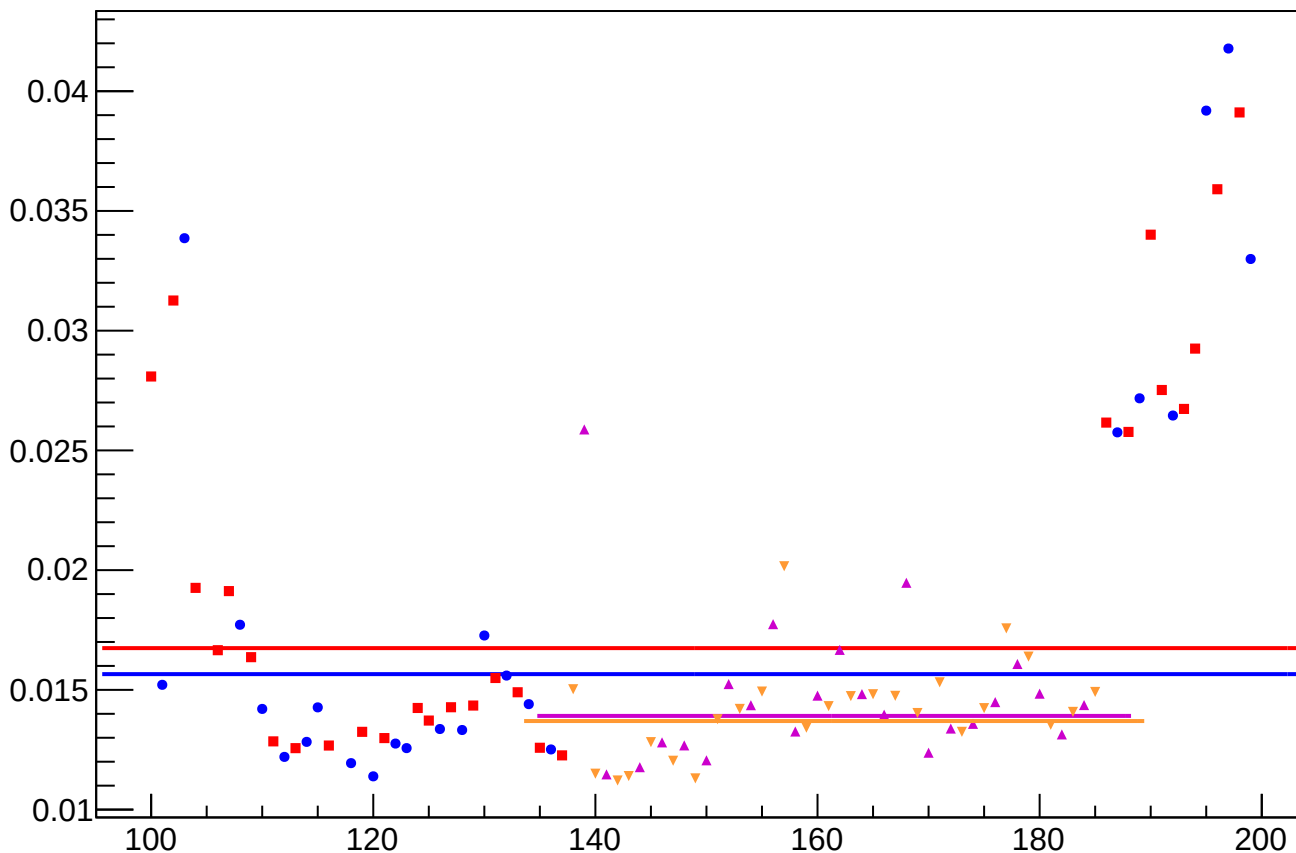
Right: 0.941 $\pm$ 0.000 χ^2 /NDF: 1148792227.3/49

In: 0.797 $\pm$ 0.000 χ^2 /NDF:1711587589.6/45

Out: 0.794 $\pm$ 0.000 χ^2 /NDF:1968142010.2/51

All: 0.795 $\pm$ 0.000 χ^2 /NDF: 3680351702.0/97

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 : 2780079.7/26

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

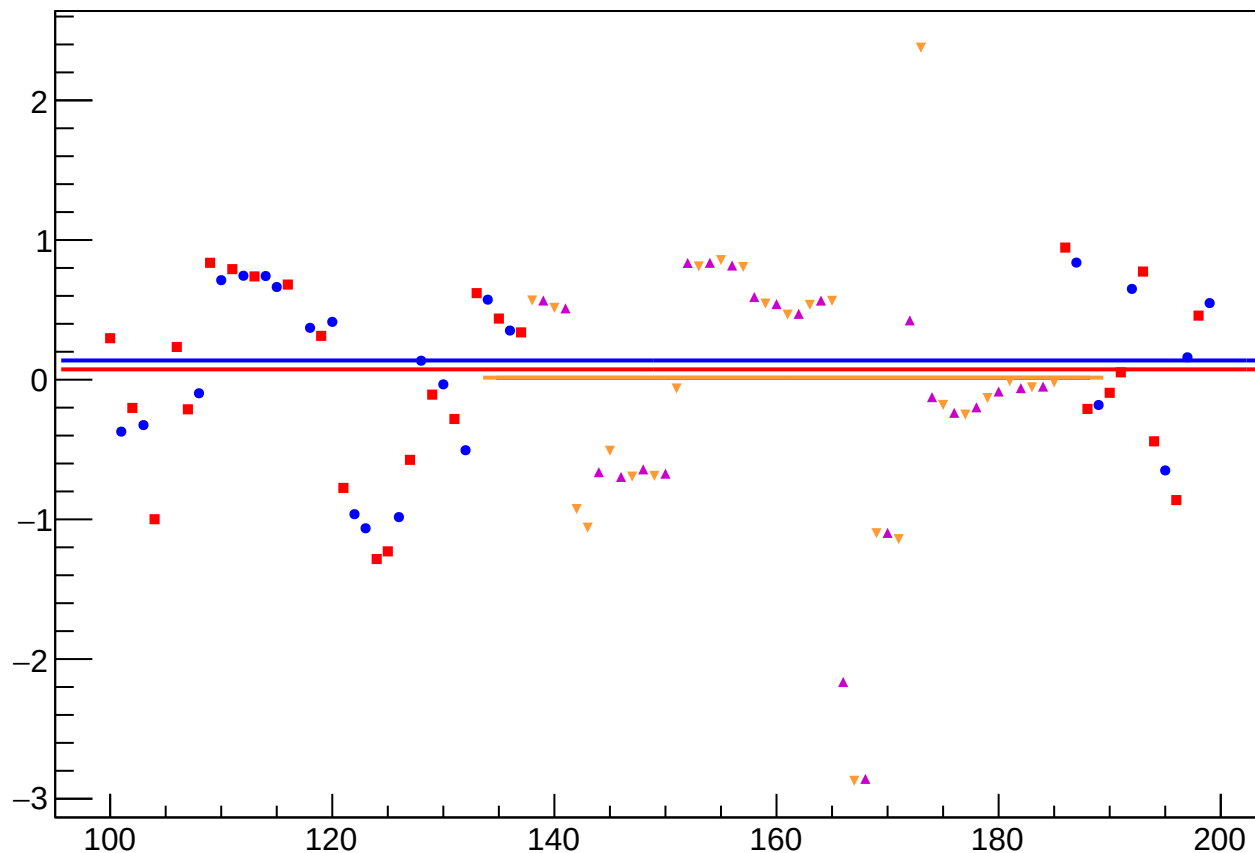
Right: 0.016+/-0.000 χ^2/NDF : 5608350.3/49

In: 0.014+/-0.000 χ^2/NDF : 3727716.3/45

Out: 0.015+/-0.000 χ^2/NDF : 3769788.5/51

All: 0.015+/-0.000 χ^2/NDF : 7499746.2/97

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: 0.103+/-0.000 χ^2/NDF : 37129195502.8/49

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: 0.074+/-0.000

χ^2/NDF : 23591235669.3/26

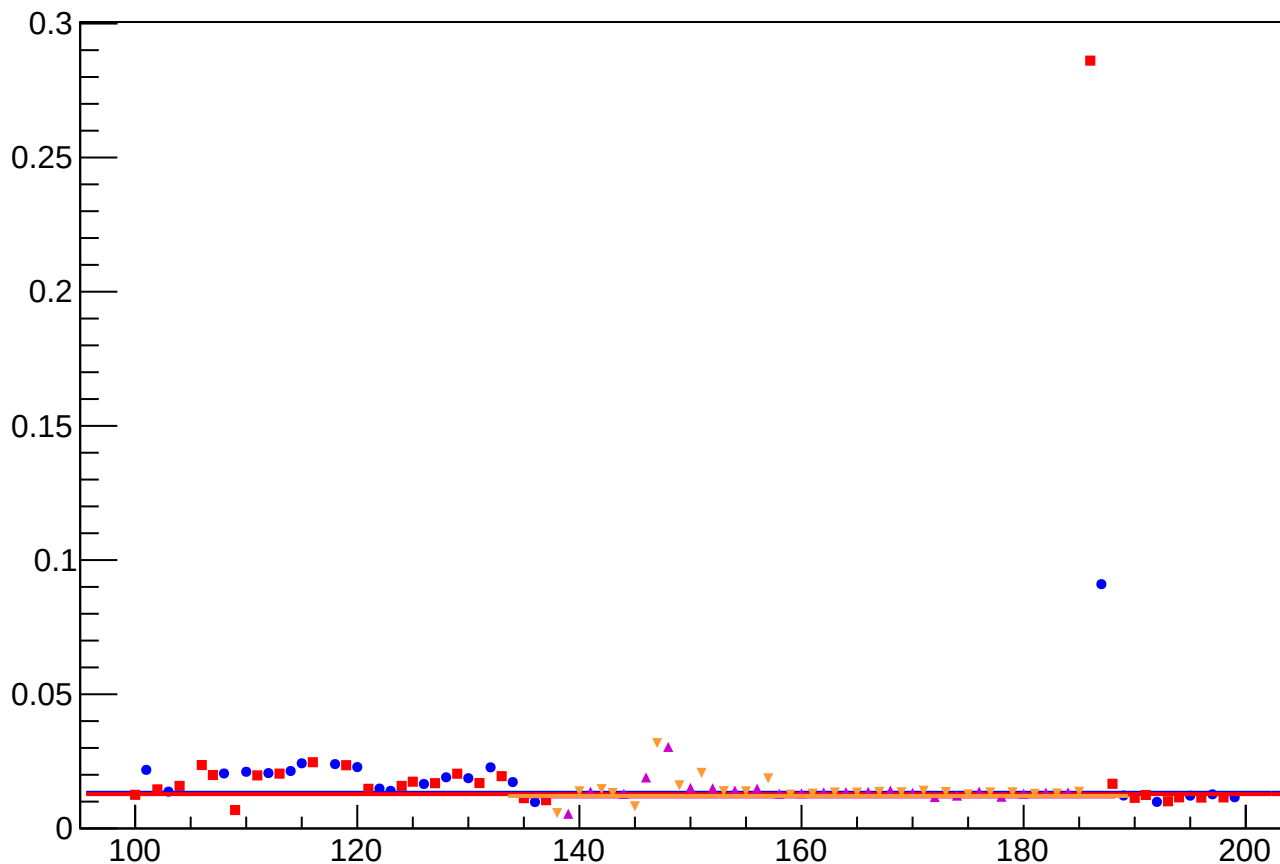
Out: 0.035+/-0.000 χ^2/NDF : 119813160574.3/51

Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

All: 0.044+/-0.000 χ^2/NDF : 213238575459.6

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 : 2500919.5/26

Left In: 0.012+/-0.000 χ^2/NDF : 3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

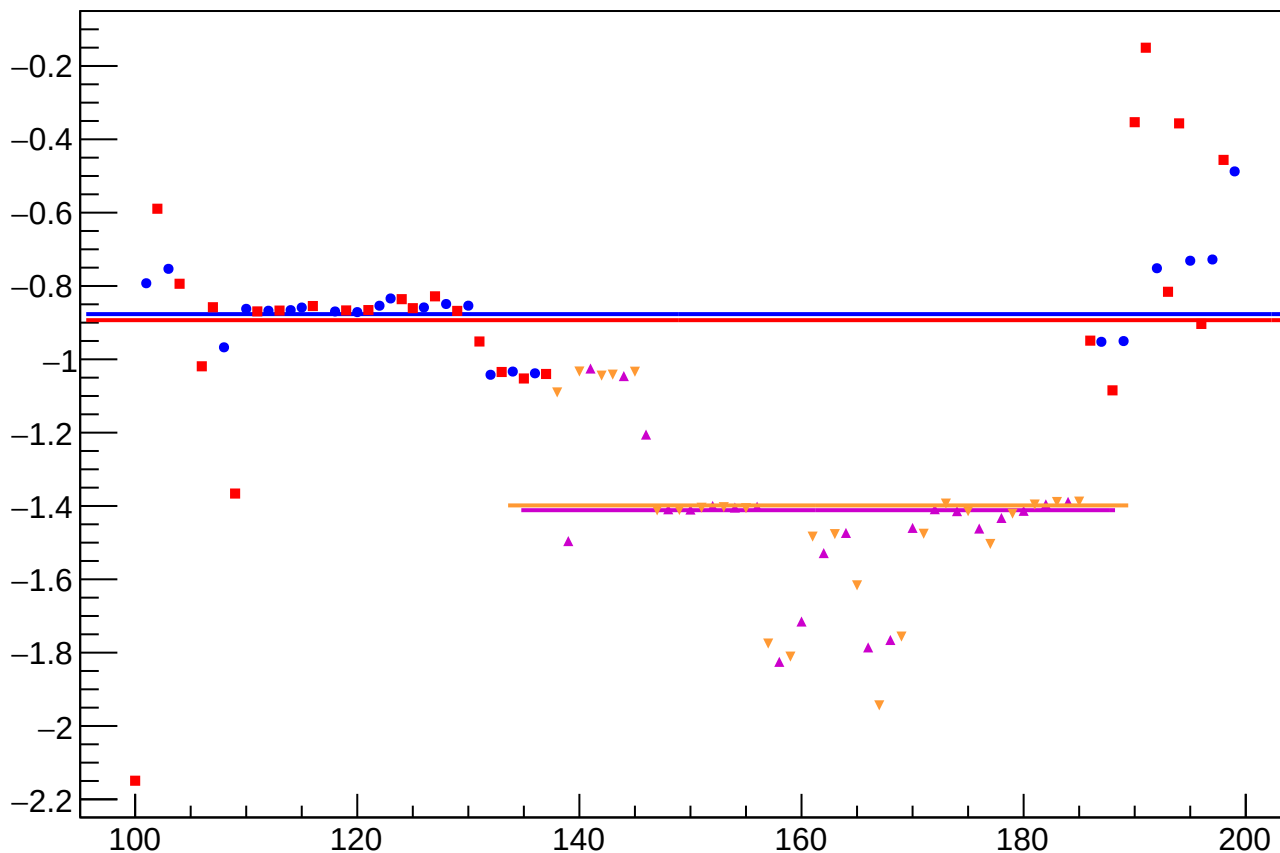
Right: 0.013+/-0.000 χ^2/NDF : 4330786.6/49

In: 0.012+/-0.000 χ^2/NDF : 5048452.7/45

Out: 0.012+/-0.000 χ^2/NDF : 5643211.3/51

All: 0.012+/-0.000 χ^2/NDF : 10691686.2/97

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: -0.893 ± 0.000 $\chi^2/\text{NDF}: 258580118.7/26$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

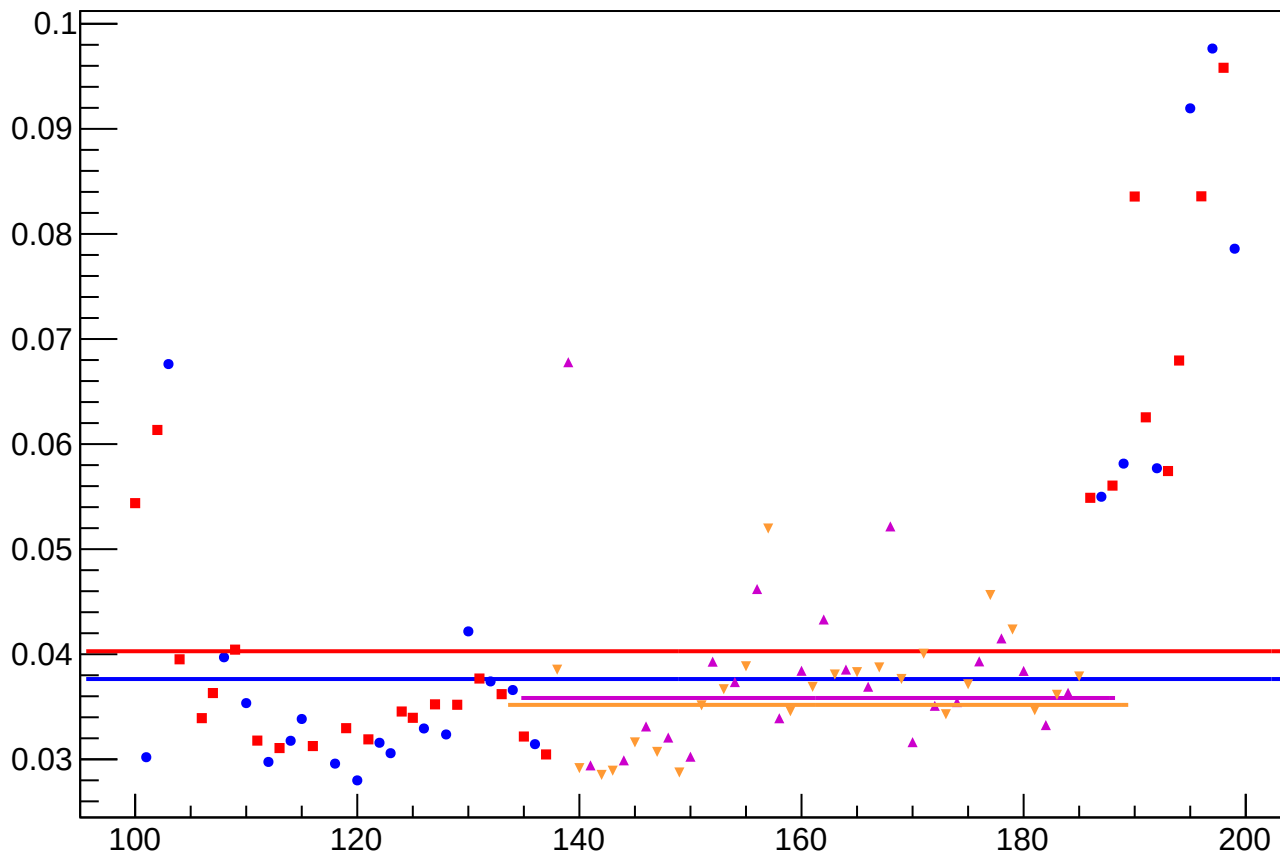
Right: -0.885 ± 0.000 $\chi^2/\text{NDF}: 328111323.2/49$

In: -1.233 ± 0.000 $\chi^2/\text{NDF}: 1722616060.6/45$

Out: -1.237 ± 0.000 $\chi^2/\text{NDF}: 2053711276.8/51$

All: -1.235 ± 0.000 $\chi^2/\text{NDF}: 3776440131.4/99$

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: 0.040 $\pm$ 0.000 χ^2 /NDF: 2288902.0/26

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

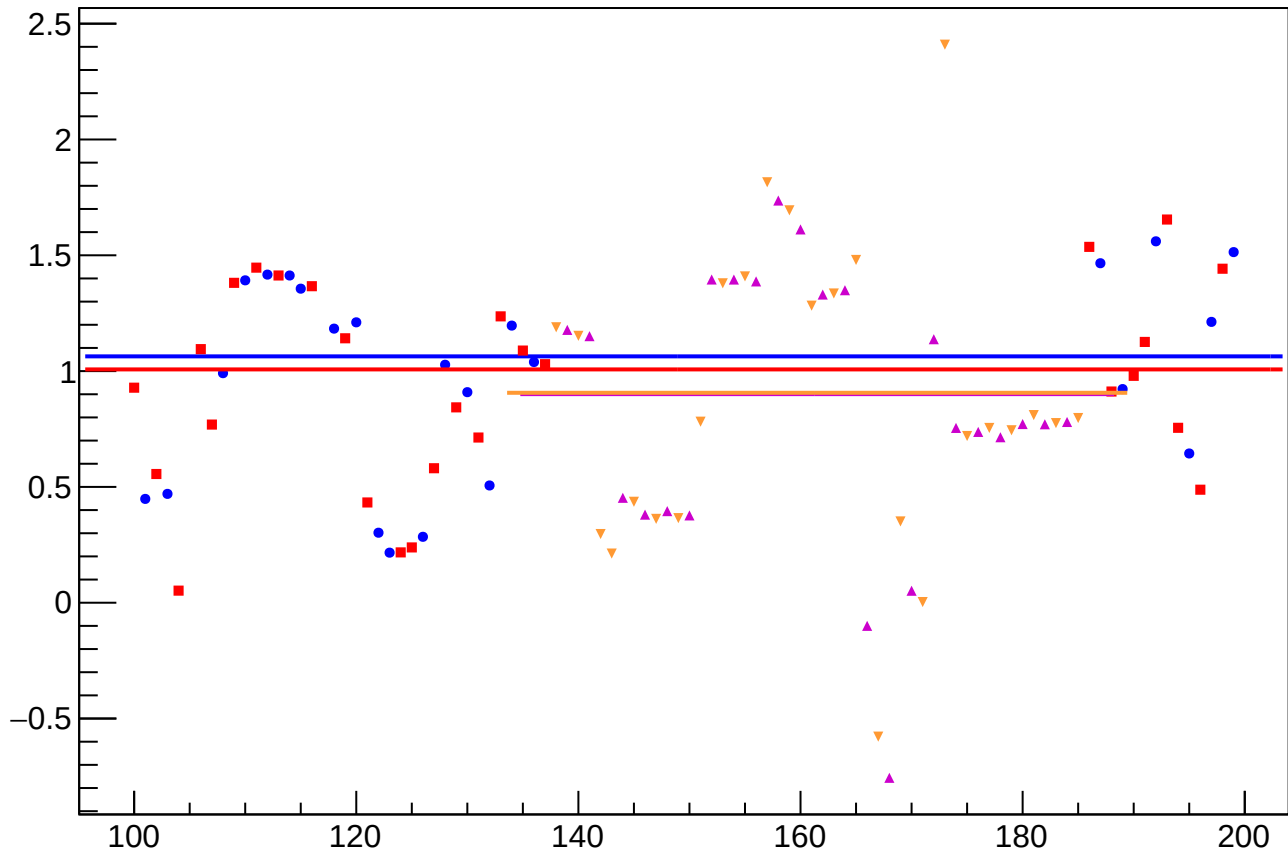
Right: 0.039 $\pm$ 0.000 χ^2 /NDF: 4782531.8/49

In: 0.036 $\pm$ 0.000 χ^2 /NDF:3368272.9/45

Out: 0.037 $\pm$ 0.000 χ^2 /NDF:3103374.3/51

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 6474258.7/97

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.064+/-0.000 χ^2/NDF : 17241216974.7/22

Left Out: 0.906+/-0.000 χ^2/NDF : 84108410196.2/24

Right Out: 1.007+/-0.000 χ^2/NDF : 21540026725.3/26

Left In: 0.901+/-0.000 χ^2/NDF : 66932223067.8/22

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

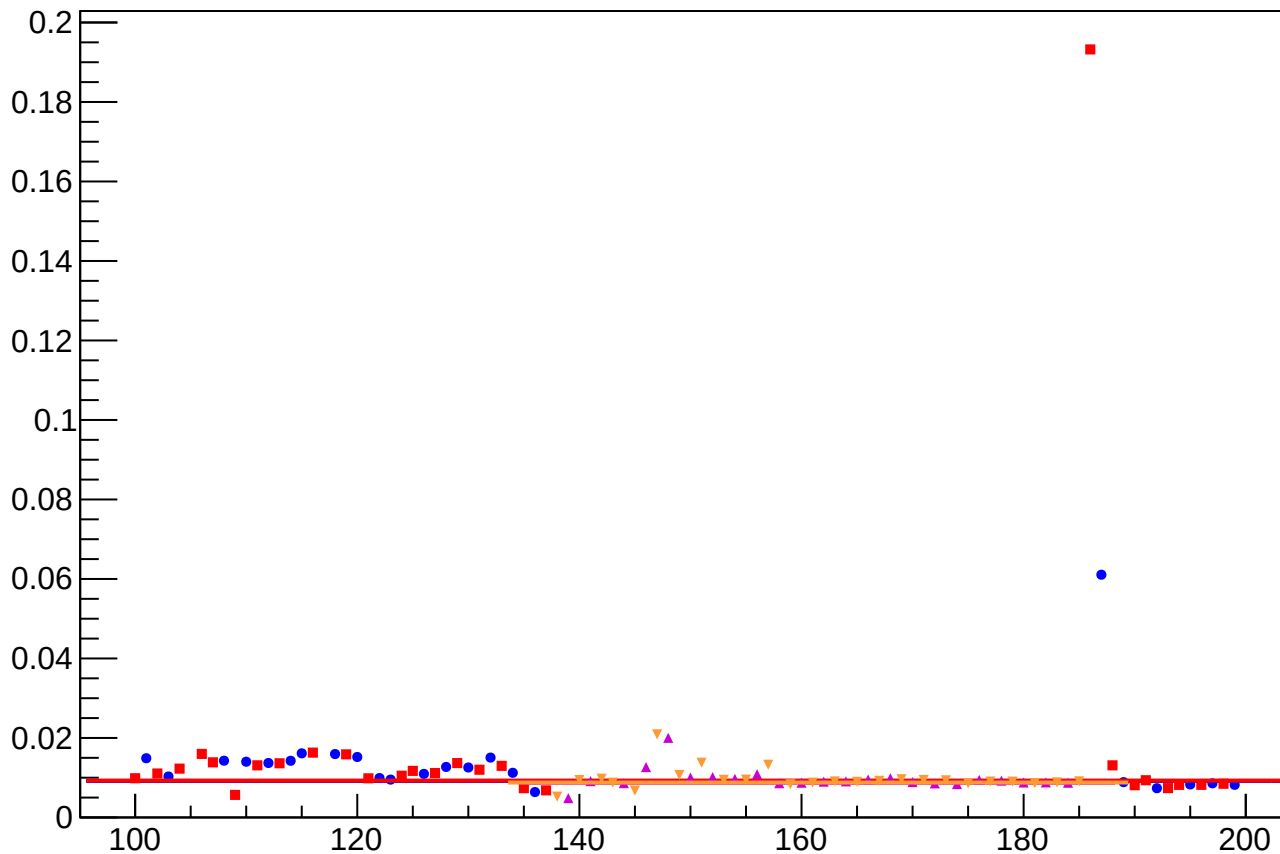
Right: 1.034+/-0.000 χ^2/NDF : 38956790699.2/49

In: 0.956+/-0.000 χ^2/NDF : 86040231758.8/45

Out: 0.941+/-0.000 χ^2/NDF : 106418521156.9/51

All: 0.948+/-0.000 χ^2/NDF : 192492483196.4

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 : 2170539.5/26

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

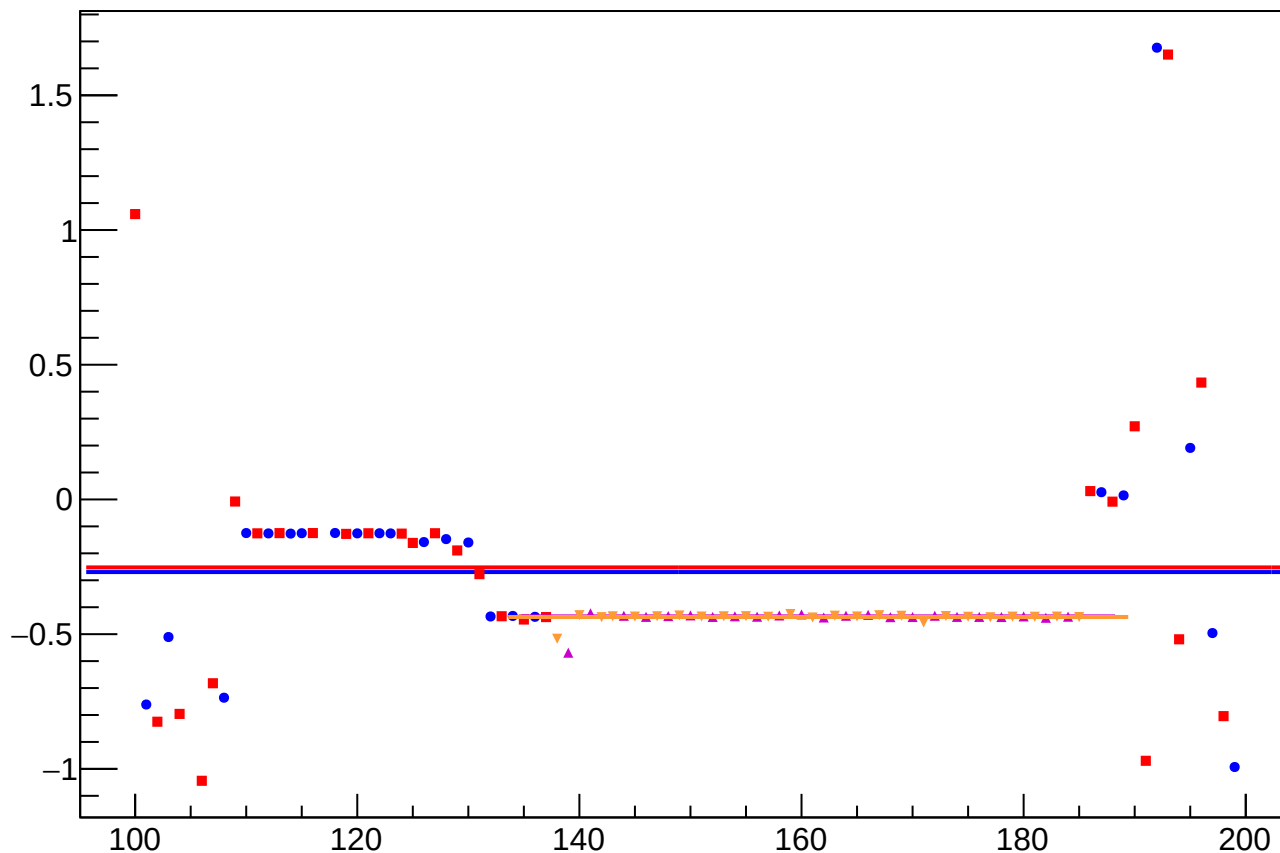
Right: 0.009+/-0.000 χ^2/NDF : 3864722.4/49

In: 0.009+/-0.000 χ^2/NDF : 3392016.0/45

Out: 0.009+/-0.000 χ^2/NDF : 3904673.2/51

All: 0.009+/-0.000 χ^2/NDF : 7297994.8/97

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: -0.252+/-0.000 χ^2/NDF : 1880612995.1/26

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

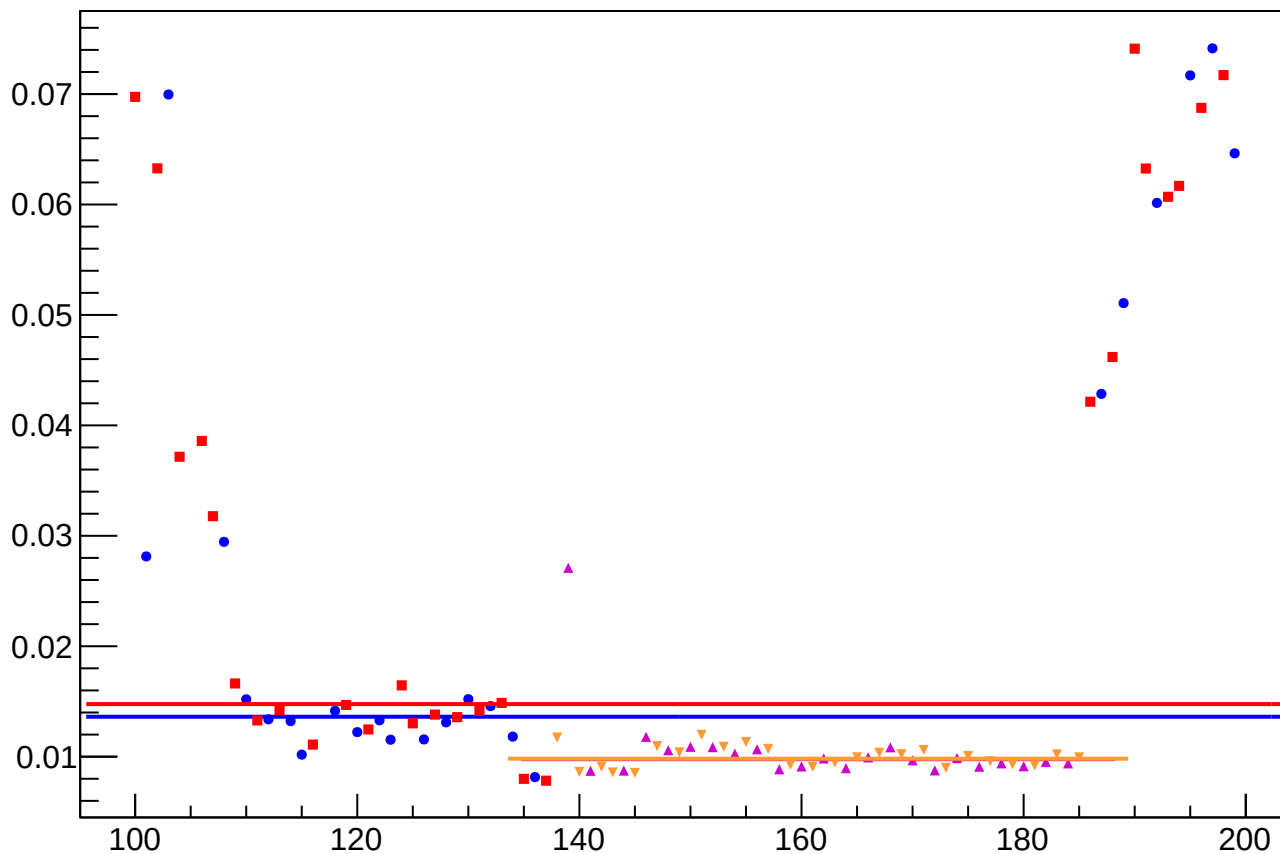
Right: -0.261+/-0.000 χ^2/NDF : 3883675474.6/49

In: -0.405+/-0.000 χ^2/NDF : 2743435529.1/45

Out: -0.407+/-0.000 χ^2/NDF : 2795120462.8/51

All: -0.406+/-0.000 χ^2/NDF : 5538723147.2/9

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 : 7669262.6/26

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

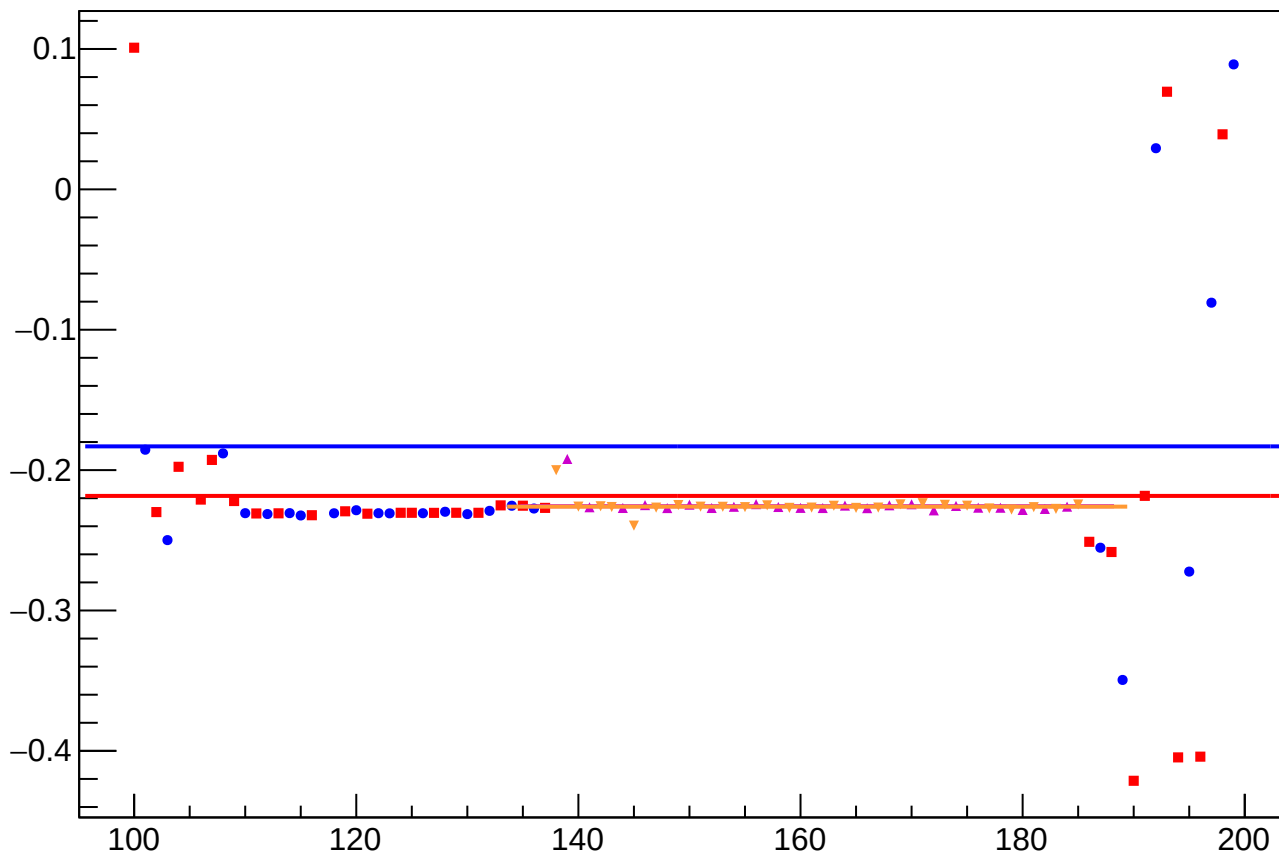
Right: 0.014 $\pm$ 0.000 χ^2/NDF : 14239074.6/49

In: 0.010 $\pm$ 0.000 χ^2/NDF : 8107282.0/45

Out: 0.011 $\pm$ 0.000 χ^2/NDF : 9219034.6/51

All: 0.011 $\pm$ 0.000 χ^2/NDF : 17331565.8/97

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.183+/-0.000

χ^2/NDF : 4190348997.9/22

Left: -0.226+/-0.000

χ^2/NDF : 34951372.2/47

Left Out: -0.226+/-0.000

χ^2/NDF : 21207366.3/24

Right: -0.201+/-0.000

χ^2/NDF : 9895425213.9/49

Right Out: -0.218+/-0.000

χ^2/NDF : 5464306540.0/26

In: -0.210+/-0.000

χ^2/NDF : 4627831861.8/45

Out: -0.223+/-0.000

χ^2/NDF : 5500262354.9/51

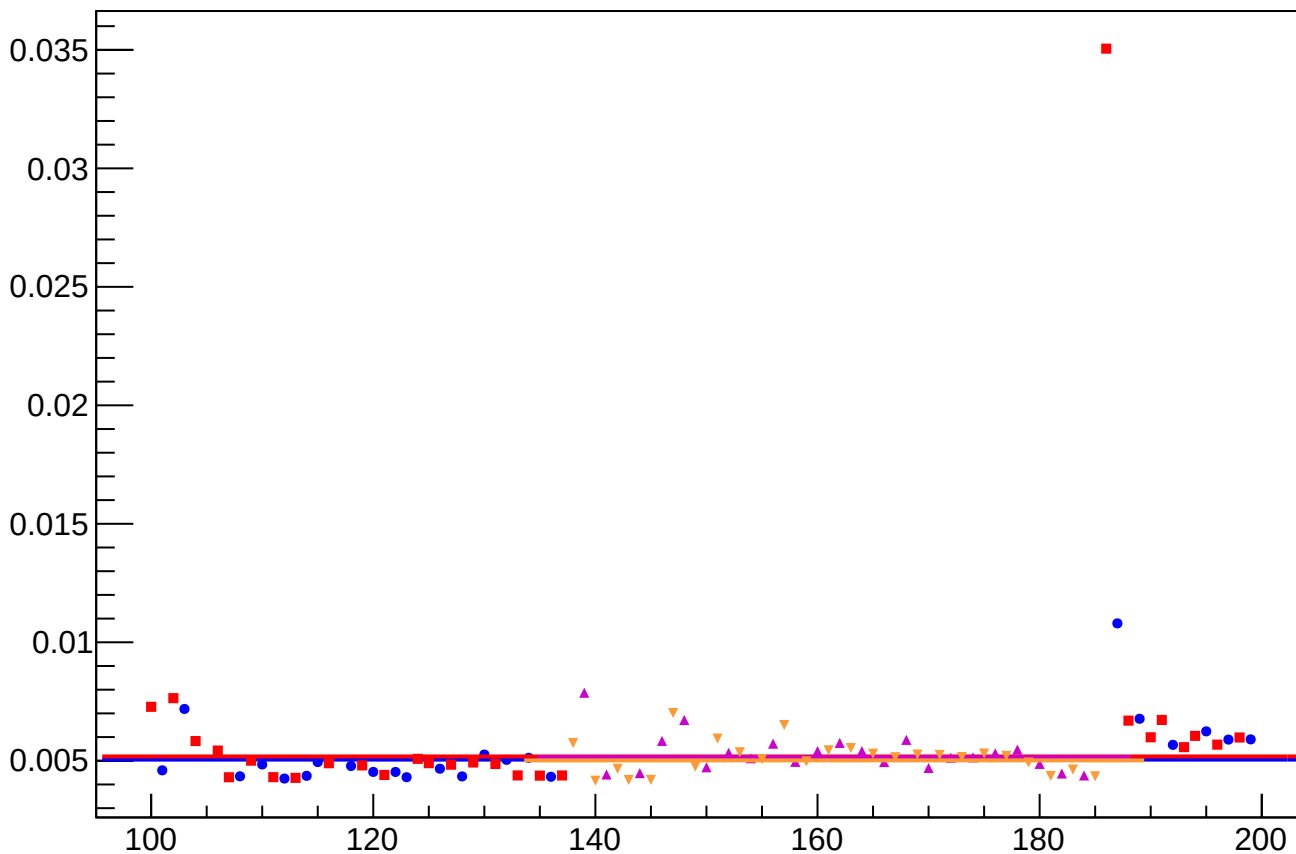
Left In: -0.226+/-0.000

χ^2/NDF : 13717302.5/22

All: -0.217+/-0.000

χ^2/NDF : 10223194961.7/100

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 : 1054136.7/26

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

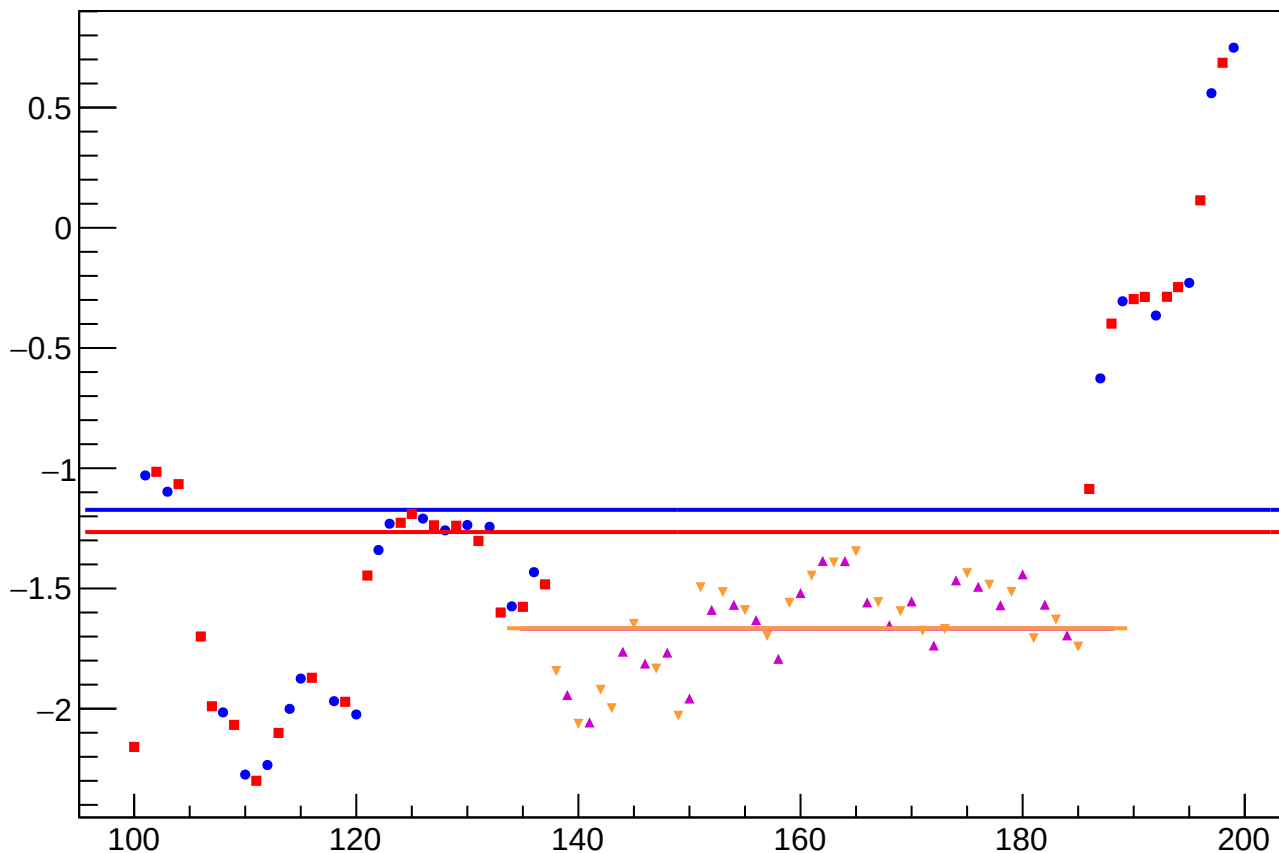
Right: 0.005+/-0.000 χ^2/NDF : 1589000.3/49

In: 0.005+/-0.000 χ^2/NDF : 1036762.2/45

Out: 0.005+/-0.000 χ^2/NDF : 1600724.5/51

All: 0.005+/-0.000 χ^2/NDF : 2638739.4/97

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.173+/-0.000 χ^2/NDF : 100403125078.5/22

Left Out: -1.666+/-0.000 χ^2/NDF : 18368038680.8/24

Right Out: -1.265+/-0.000 χ^2/NDF : 119687578286.8/26

Left In: -1.667+/-0.000 χ^2/NDF : 14615453869.3/22

Left: -1.666+/-0.000 χ^2/NDF : 32983827631.4/47

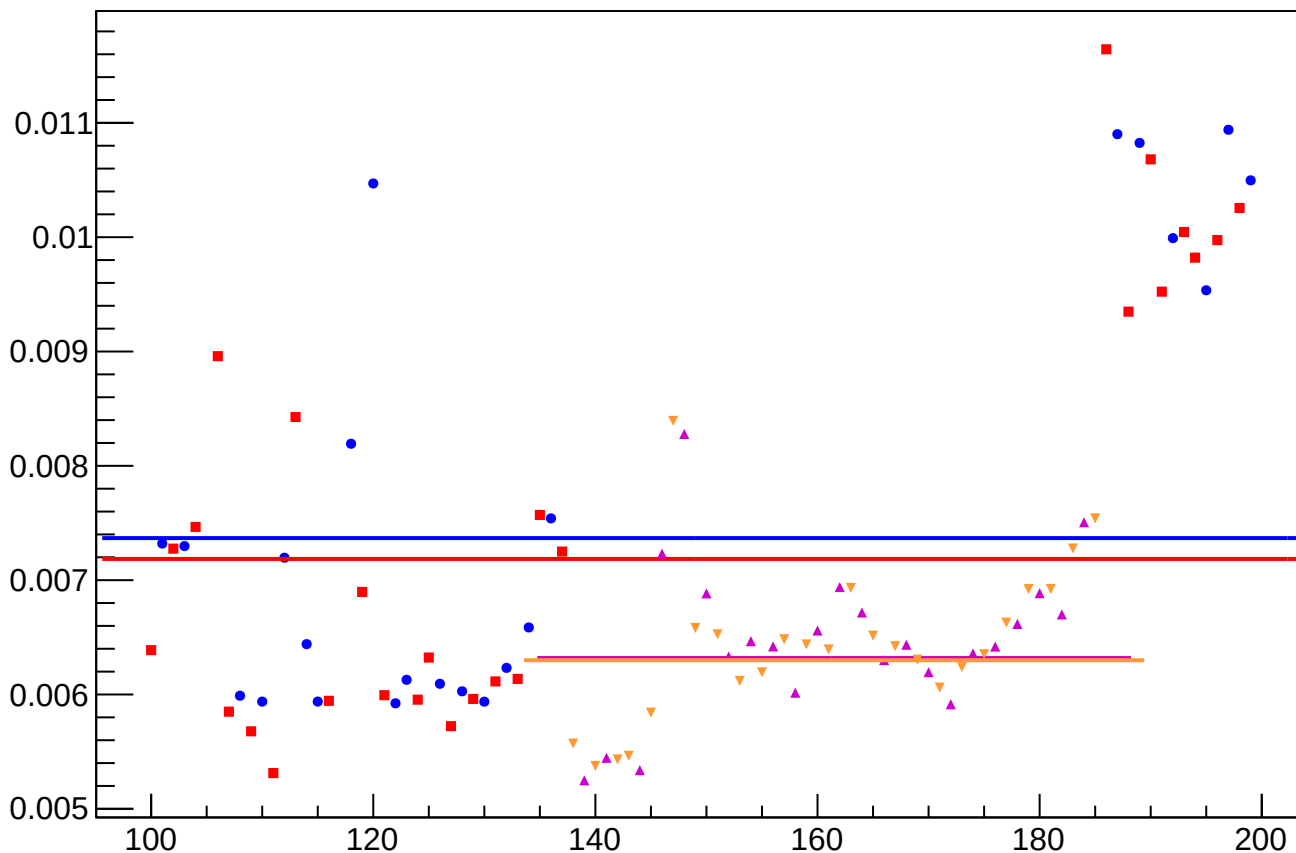
Right: -1.224+/-0.000 χ^2/NDF : 220906220643.8/49

In: -1.520+/-0.000 χ^2/NDF : 144939061903.8/45

Out: -1.536+/-0.000 χ^2/NDF : 161041871075.7/51

All: -1.528+/-0.000 χ^2/NDF : 306052307142.0

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 : 1253257.9/26

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

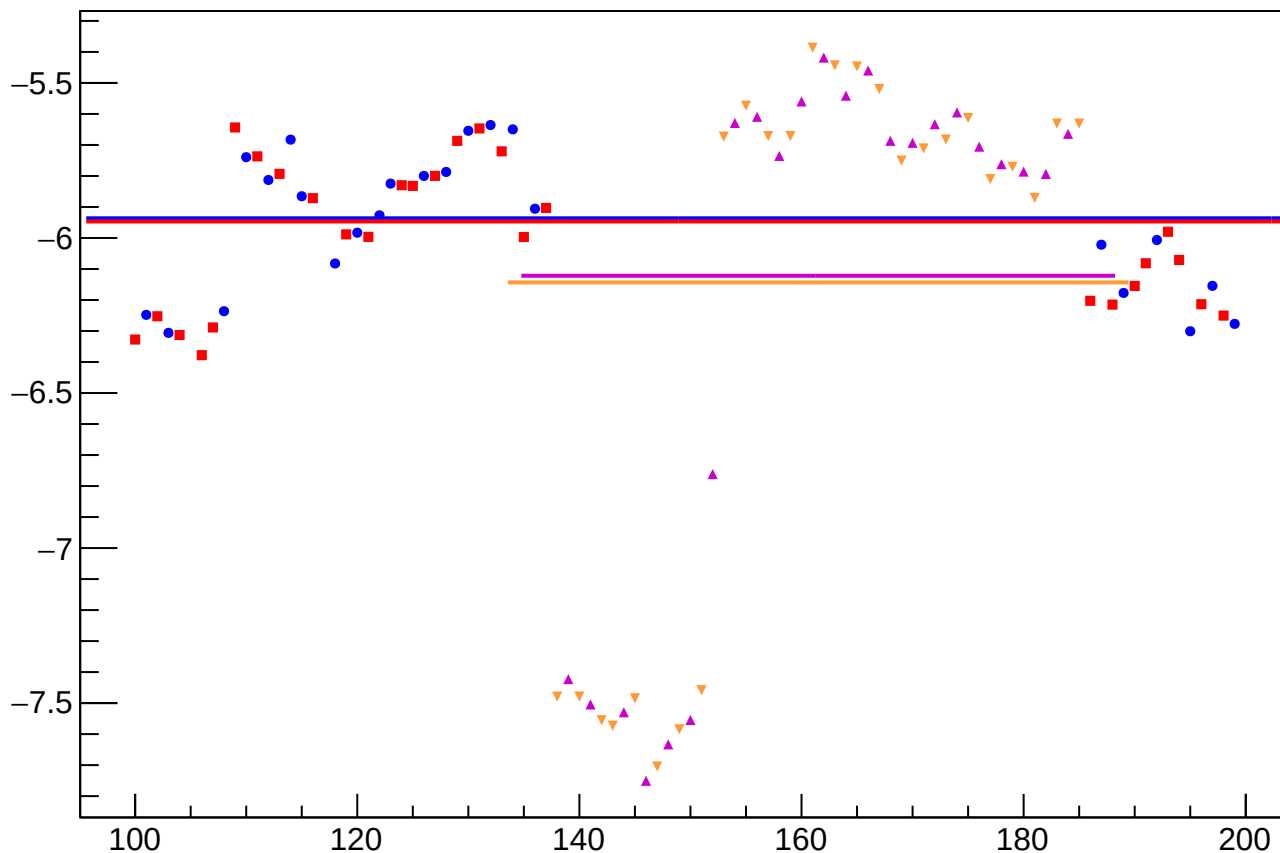
Right: 0.007+/-0.000 χ^2/NDF : 2240903.0/49

In: 0.007+/-0.000 χ^2/NDF :1585665.5/45

Out: 0.007+/-0.000 χ^2/NDF :1791406.4/51

All: 0.007+/-0.000 χ^2/NDF : 3378193.4/97

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: -5.947+/-0.000 χ^2/NDF : 14459290070.3/26

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

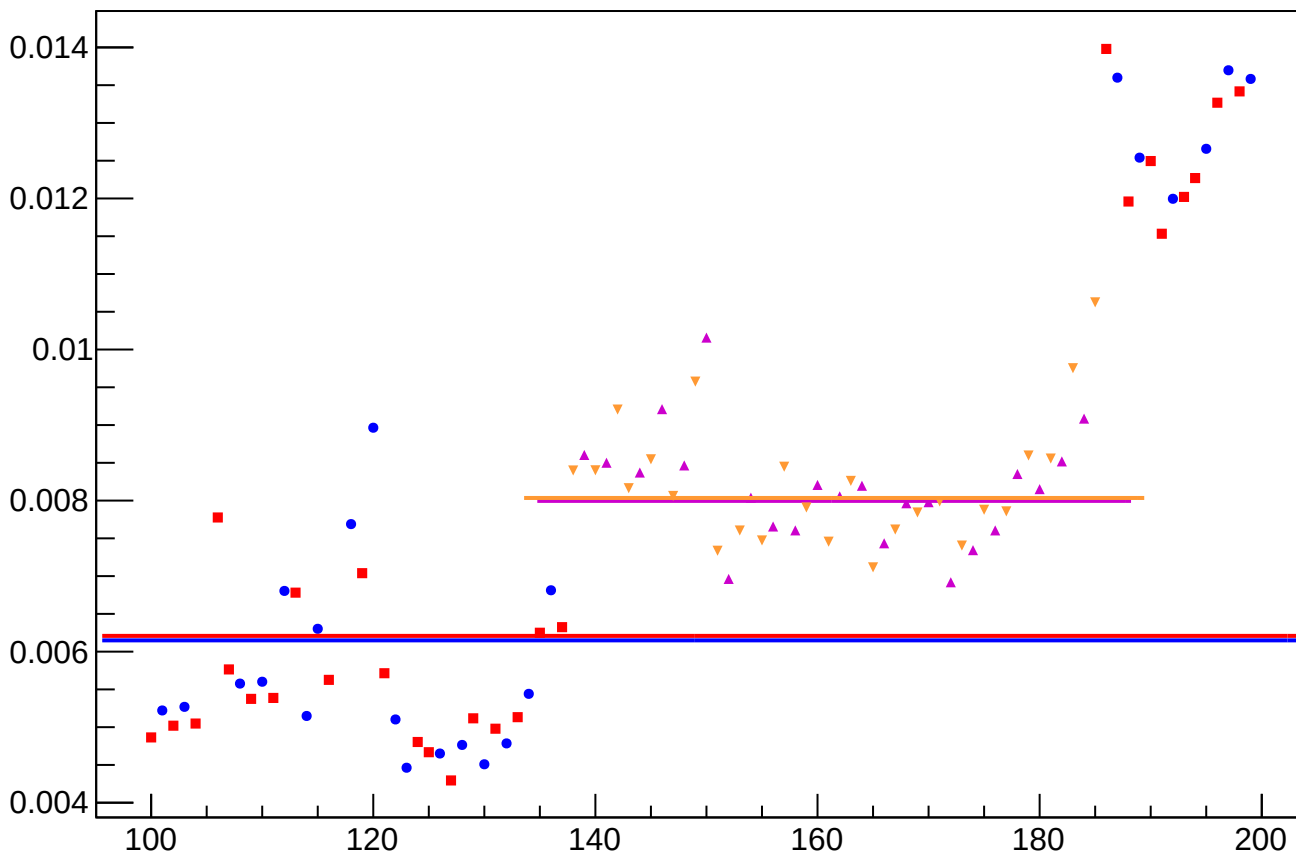
Right: -5.942+/-0.000 χ^2/NDF : 27292012903.1/49

In: -6.034+/-0.000 χ^2/NDF : 176775932574.7/45

Out: -6.046+/-0.000 χ^2/NDF : 205115719304.2/51

All: -6.040+/-0.000 χ^2/NDF : 381925961187.6

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 : 3077838.8/26

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

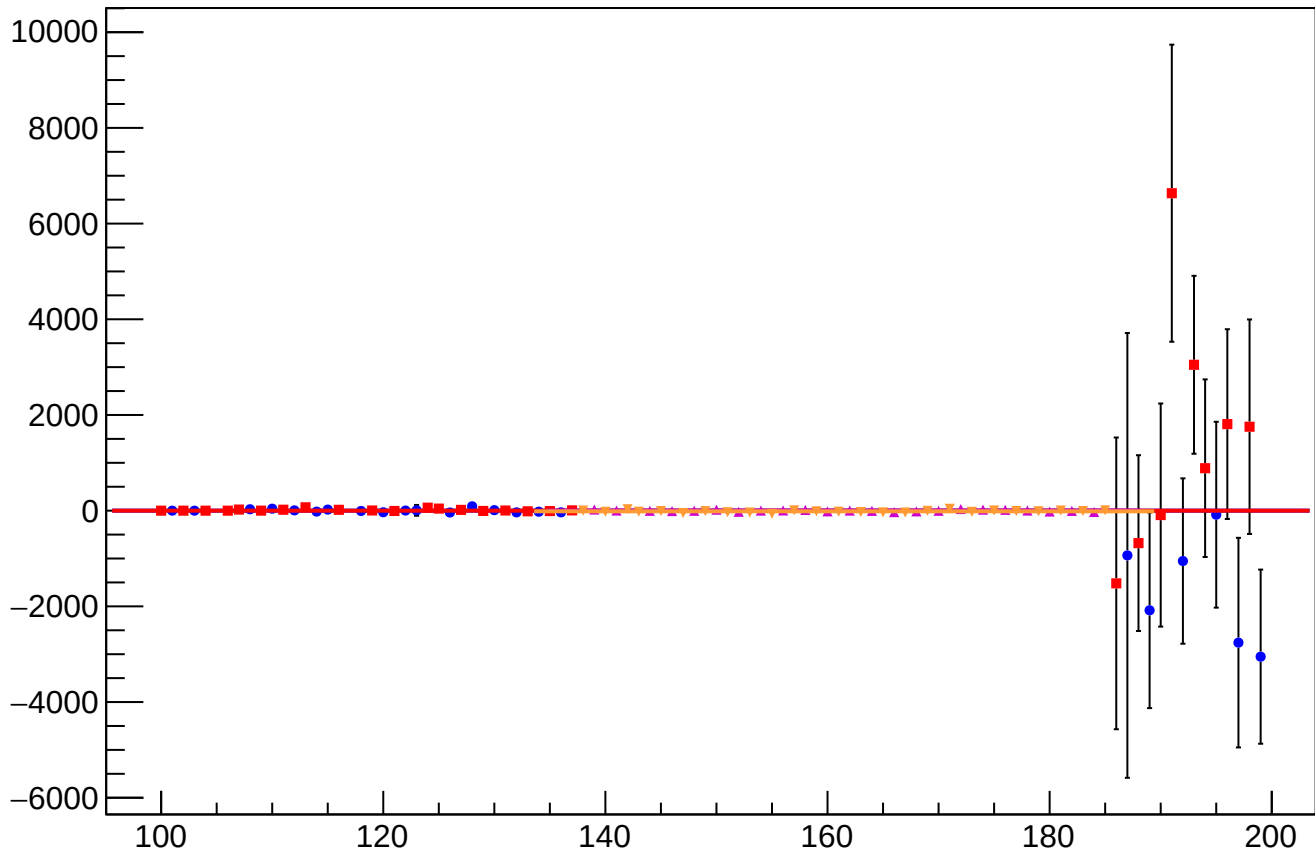
Right: 0.006+/-0.000 χ^2/NDF : 5741739.7/49

In: 0.007+/-0.000 χ^2/NDF :3687746.3/45

Out: 0.007+/-0.000 χ^2/NDF :4136051.0/51

All: 0.007+/-0.000 χ^2/NDF : 7823829.3/97

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 χ^2/NDF : 22.1/22

Left Out: -13.472 ± 2.796 χ^2/NDF : 58.5/24

Right Out: -0.003 ± 0.016 χ^2/NDF : 24.3/26

Left In: 0.489 ± 2.905 χ^2/NDF : 28.7/22

Left: -6.758 ± 2.015 χ^2/NDF : 99.2/47

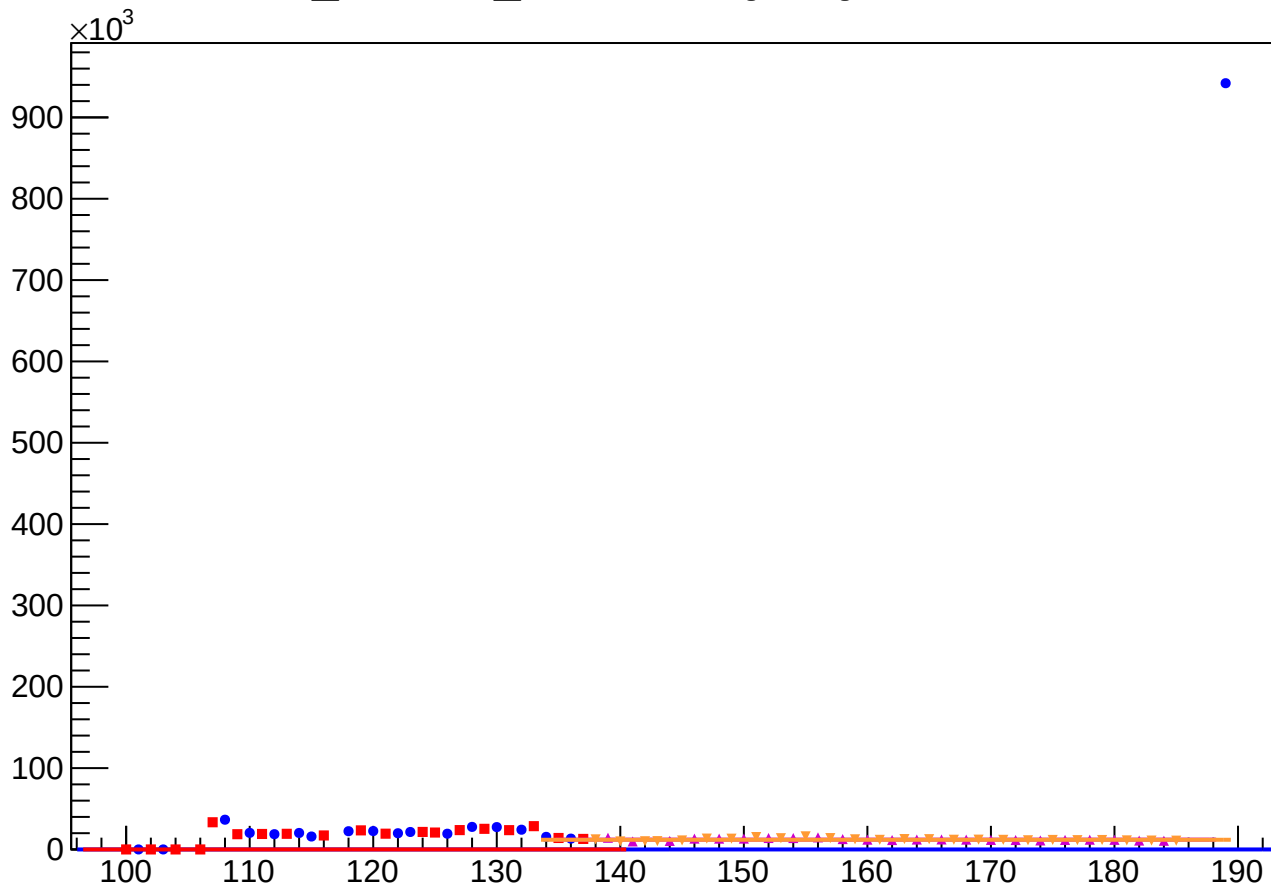
Right: 0.004 ± 0.012 χ^2/NDF : 46.9/49

In: 0.013 ± 0.017 χ^2/NDF : 50.8/45

Out: -0.004 ± 0.016 χ^2/NDF : 105.9/51

All: 0.004 ± 0.012 χ^2/NDF : 157.3/97

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.640 $\pm$ 0.012 χ^2 /NDF: 10982766.4/17

Left Out: 11909.835 $\pm$ 1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11056055.0/18

Left In: 12064.321 $\pm$ 2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125 $\pm$ 1.425 χ^2 /NDF: 850831.6/47

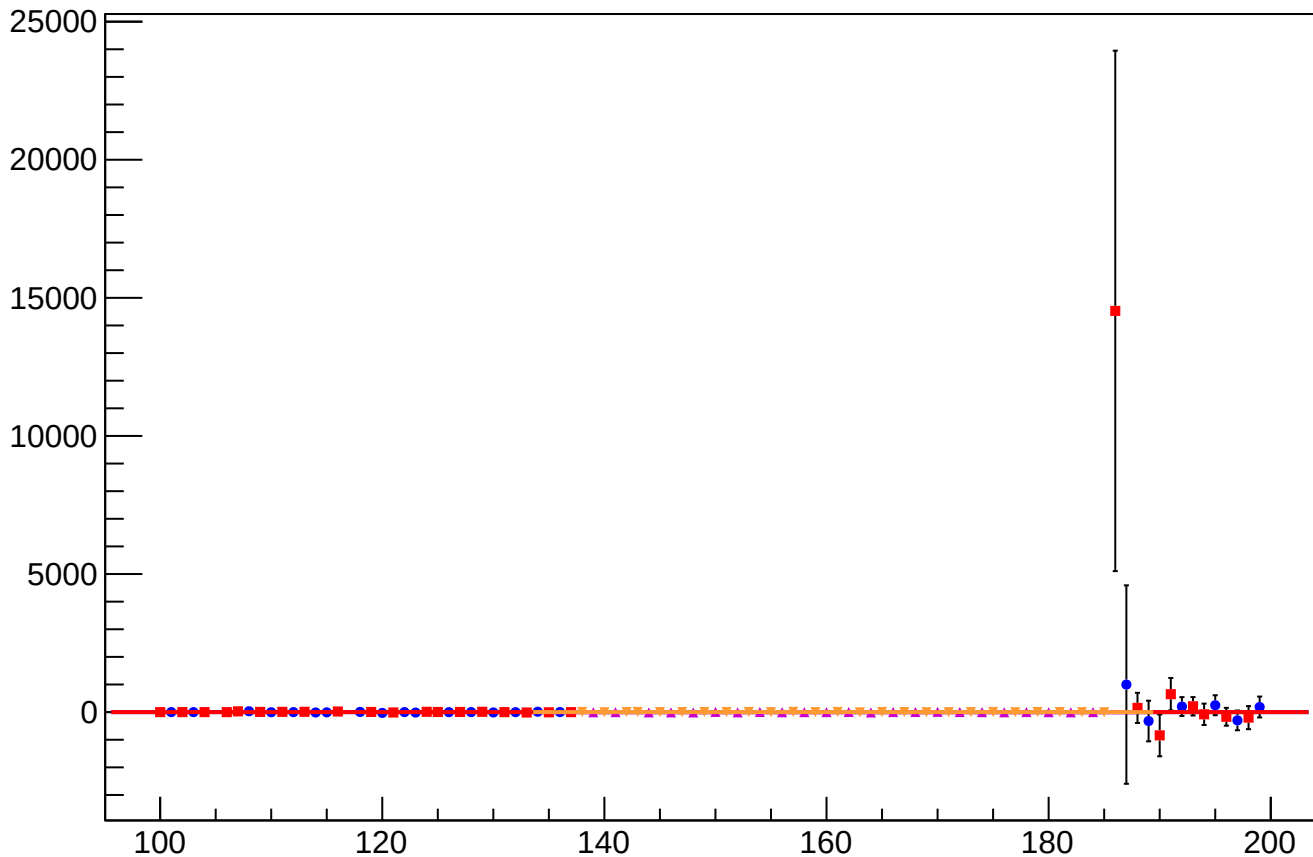
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

In: 19.069 $\pm$ 0.012 χ^2 /NDF: 45733258.4/40

Out: 18.704 $\pm$ 0.011 χ^2 /NDF: 47698495.9/43

All: 18.873 $\pm$ 0.008 χ^2 /NDF: 93432232.0/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2/NDF : 16.7/22

Left Out: 1.675 $\pm$ 1.021 χ^2/NDF : 17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2/NDF : 24.5/26

Left In: -0.843 $\pm$ 1.043 χ^2/NDF : 35.7/22

Left: 0.443 $\pm$ 0.730 χ^2/NDF : 56.5/47

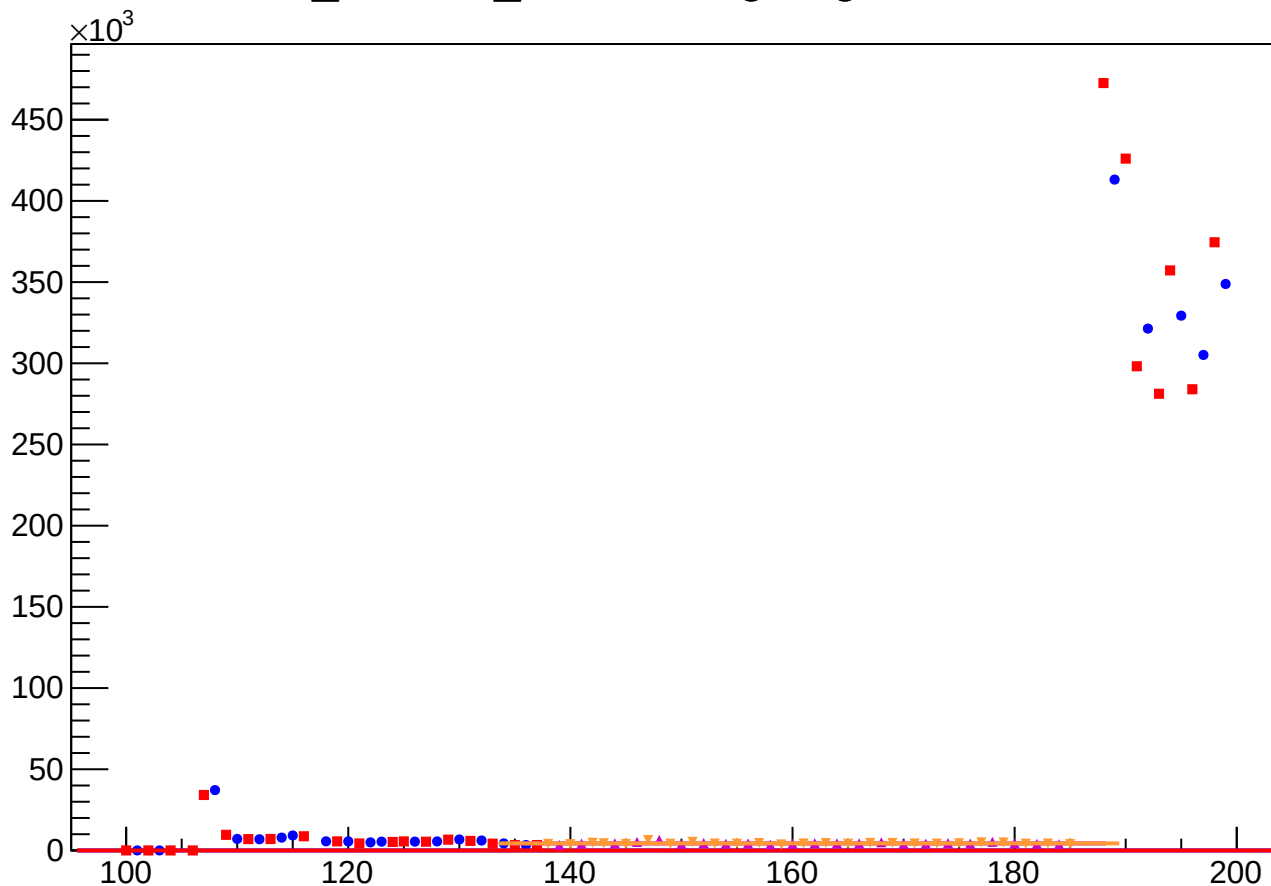
Right: -0.007 $\pm$ 0.006 χ^2/NDF : 42.5/49

In: 0.001 $\pm$ 0.009 χ^2/NDF : 53.0/45

Out: -0.014 $\pm$ 0.009 χ^2/NDF : 45.1/51

All: -0.007 $\pm$ 0.006 χ^2/NDF : 99.5/97

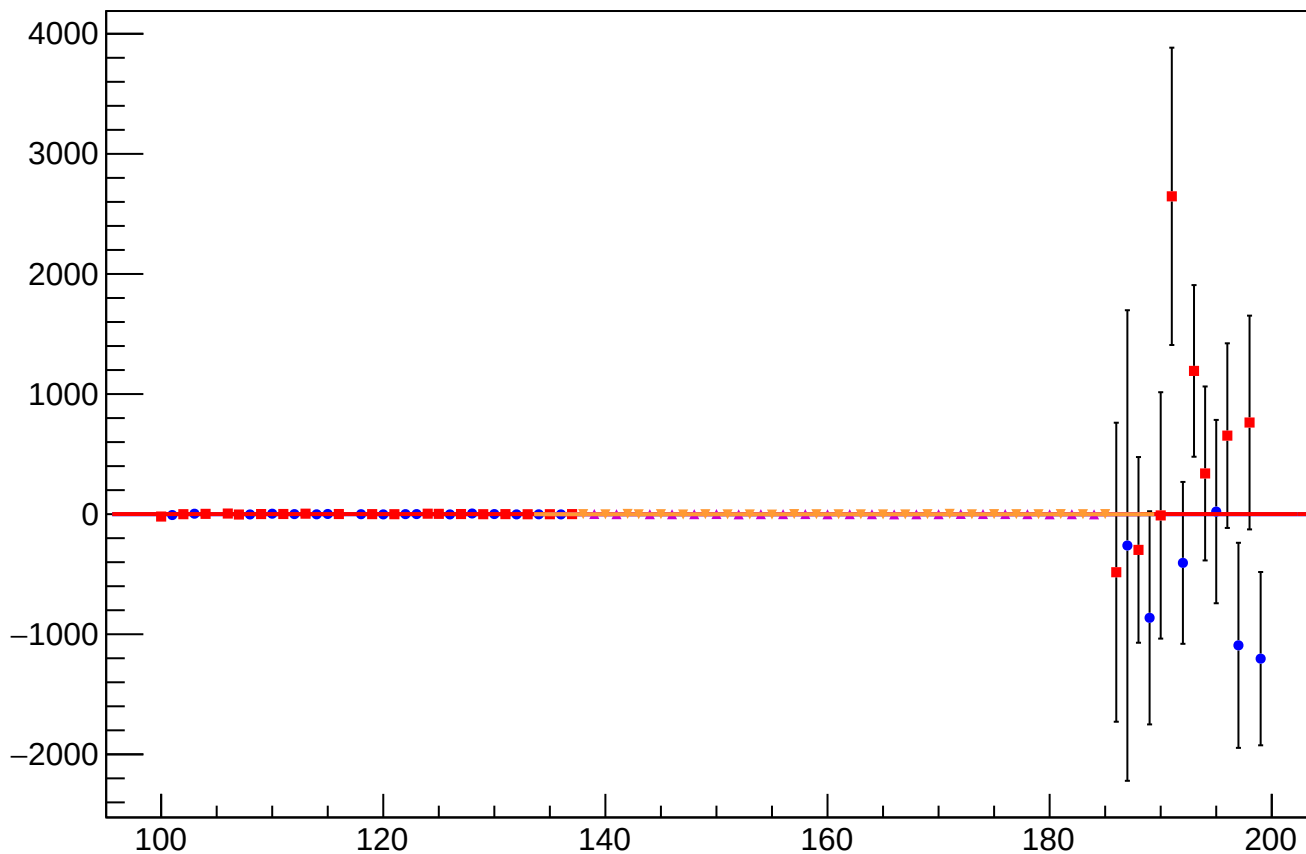
diff_cav4bY_rms vs Slug, Sign Corrected



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 : 20008610.6/25
 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 : 38138551.4/47
 In: 10.274 ± 0.007 χ^2/NDF : 52725871.0/44
 Out: 10.166 ± 0.006 χ^2/NDF : 56538327.5/50
 All: 10.217 ± 0.004 χ^2/NDF : 109264342.4/95

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 $\chi^2/\text{NDF}: 21.1/26$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

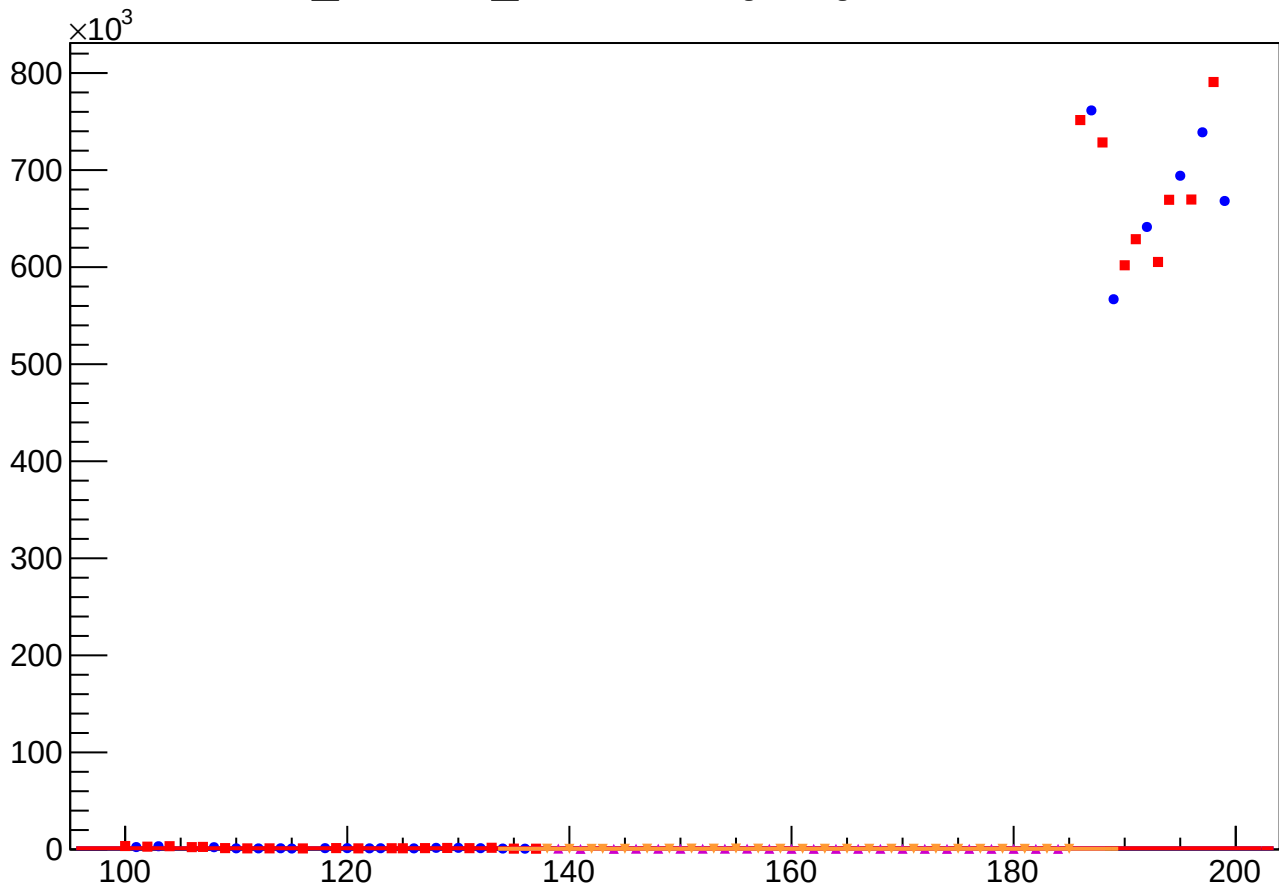
Right: 0.004 ± 0.349 $\chi^2/\text{NDF}: 53.7/49$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 59.4/45$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 87.9/51$

All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 153.8/97$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1165.576+/-0.343 χ^2/NDF : 9347478.2/22

Left Out: 700.797+/-0.116 χ^2/NDF :392521.4/24

Right Out: 1251.088+/-0.355 χ^2/NDF : 11466353.9/26

Left In: 706.950+/-0.120 χ^2/NDF :338177.1/22

Left: 703.766+/-0.084 χ^2/NDF : 732052.1/47

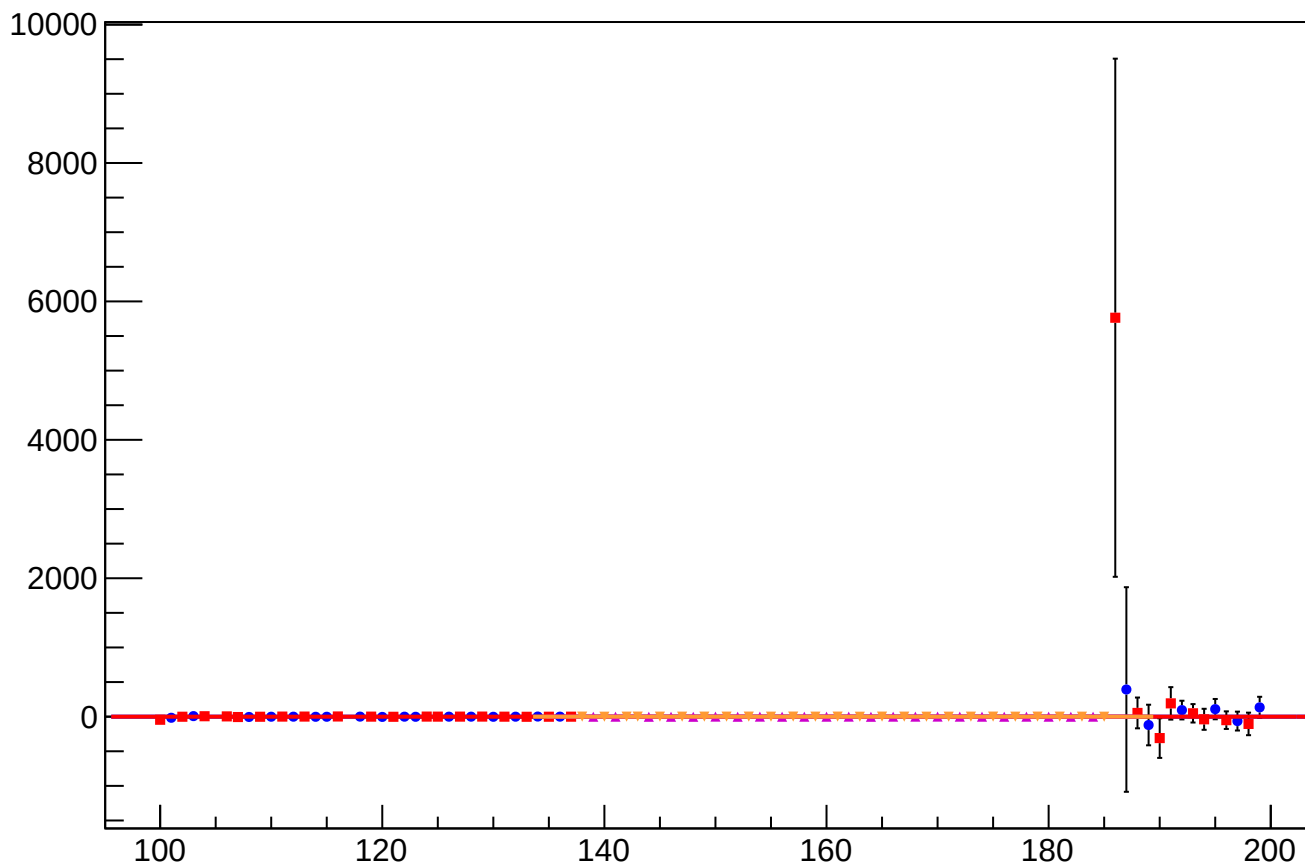
Right: 1206.853+/-0.247 χ^2/NDF : 20843841.4/49

In: 757.194+/-0.114 χ^2/NDF :11278046.5/45

Out: 754.023+/-0.110 χ^2/NDF :14028911.8/51

All: 755.565+/-0.079 χ^2/NDF : 25307359.2/97

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 : 25.7/26

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

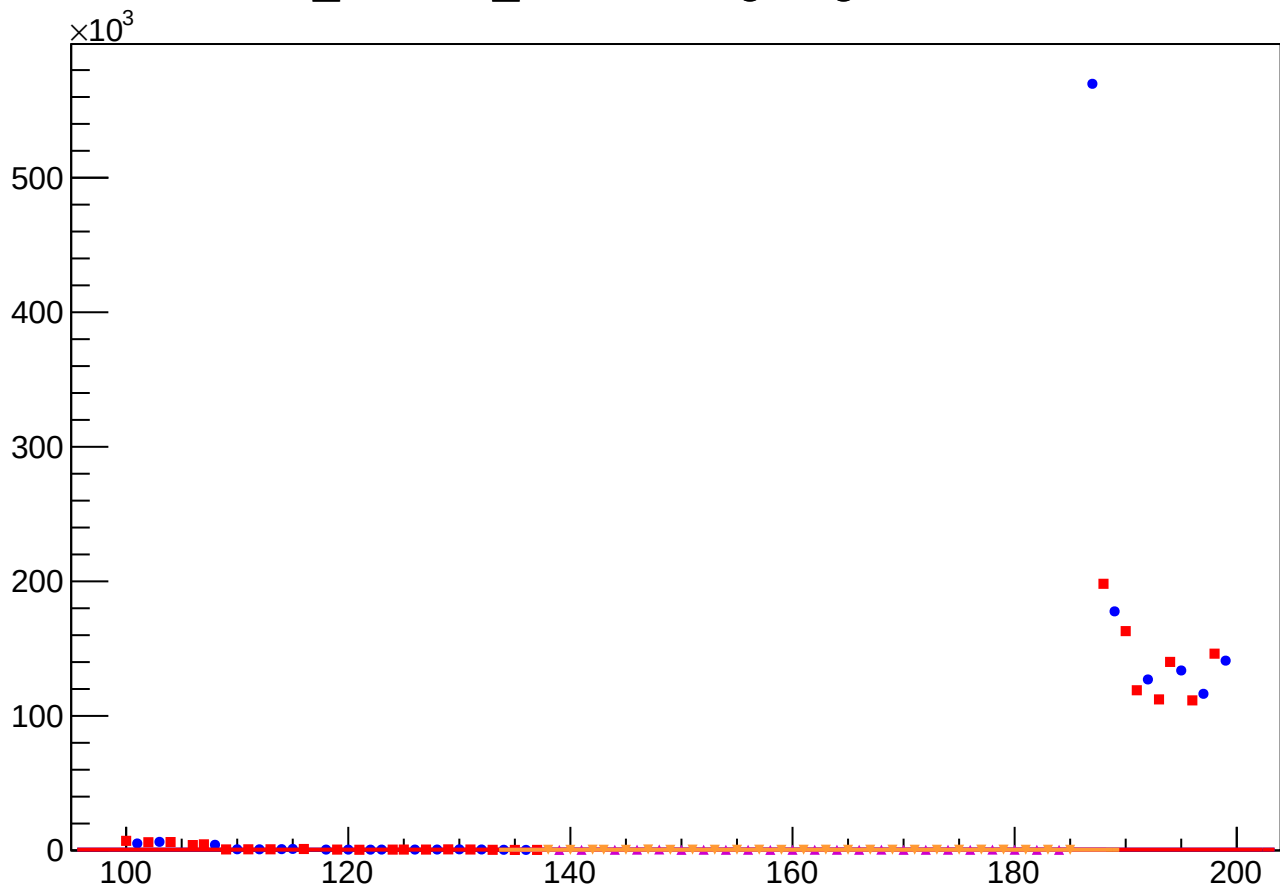
Right: -0.154 ± 0.189 χ^2/NDF : 49.2/49

In: -0.105 ± 0.114 χ^2/NDF : 58.2/45

Out: 0.151 ± 0.111 χ^2/NDF : 46.0/51

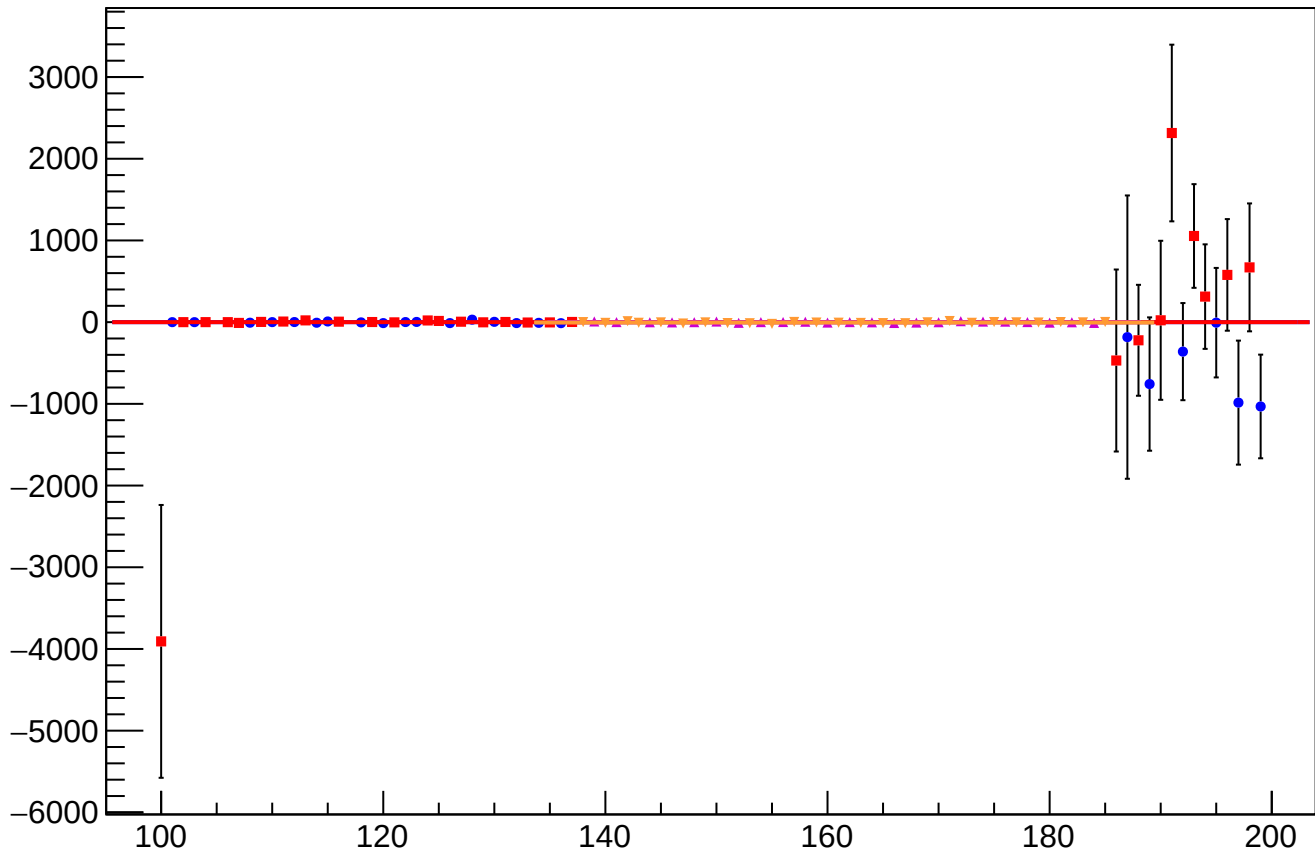
All: 0.026 ± 0.080 χ^2/NDF : 106.8/97

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: 606.226 $\pm$ 0.134	χ^2 /NDF: 23200019.7/48
Right Out: 602.020 $\pm$ 0.187	χ^2 /NDF: 12502699.7/25	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: 536.442 $\pm$ 0.079	χ^2 /NDF: 12983118.8/50
		All: 536.211 $\pm$ 0.056	χ^2 /NDF: 24309160.5/96

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2 /NDF: 21.2/22

Left Out: -4.474 $\pm$ 0.956 χ^2 /NDF: 58.2/24

Right Out: 0.027 $\pm$ 0.020 χ^2 /NDF: 26.1/26

Left In: 0.193 $\pm$ 0.990 χ^2 /NDF: 29.2/22

Left: -2.224 $\pm$ 0.688 χ^2 /NDF: 99.0/47

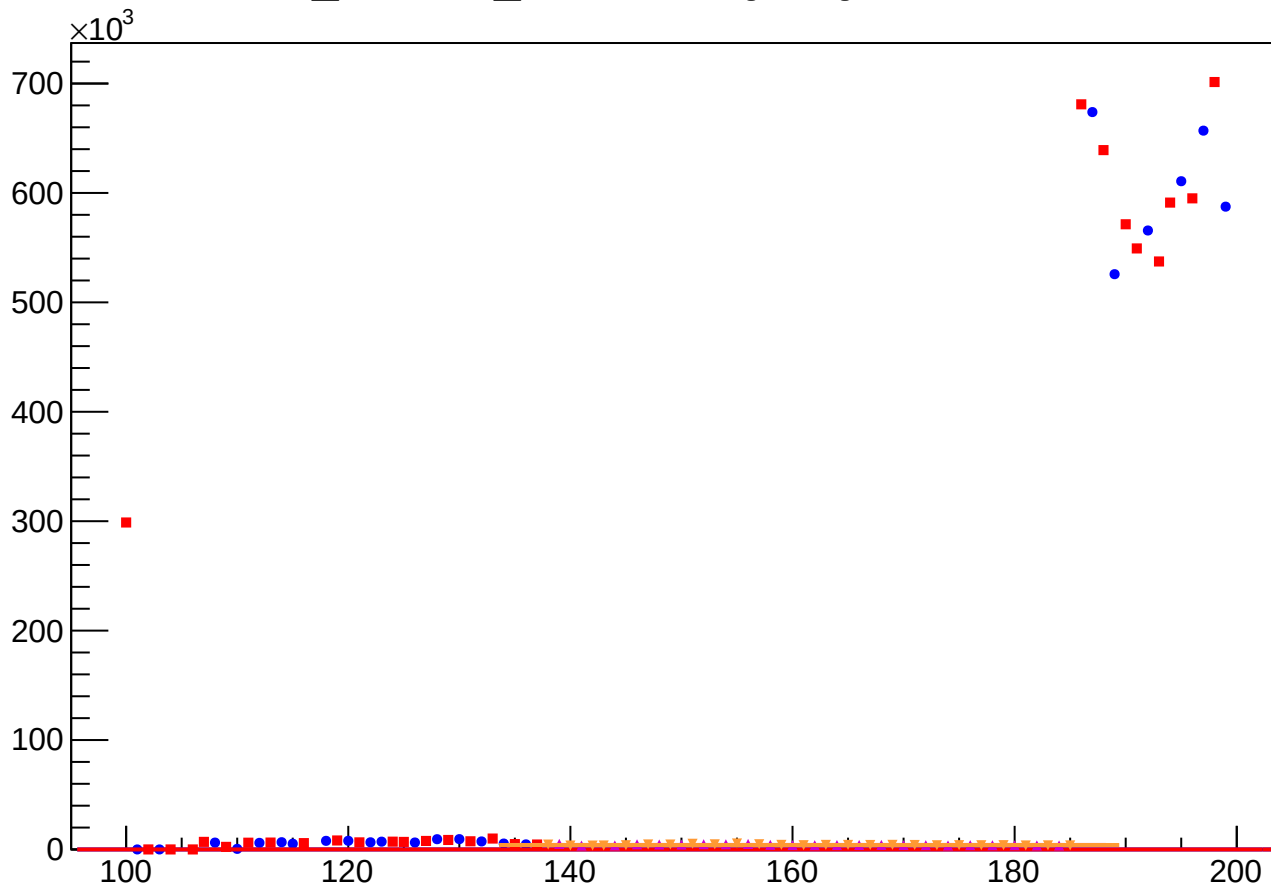
Right: 0.004 $\pm$ 0.014 χ^2 /NDF: 50.2/49

In: -0.022 $\pm$ 0.021 χ^2 /NDF: 50.5/45

Out: 0.025 $\pm$ 0.020 χ^2 /NDF: 106.5/51

All: 0.003 $\pm$ 0.014 χ^2 /NDF: 159.6/97

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: 17.270 $\pm$ 0.014 χ^2/NDF : 20729793.6/26

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

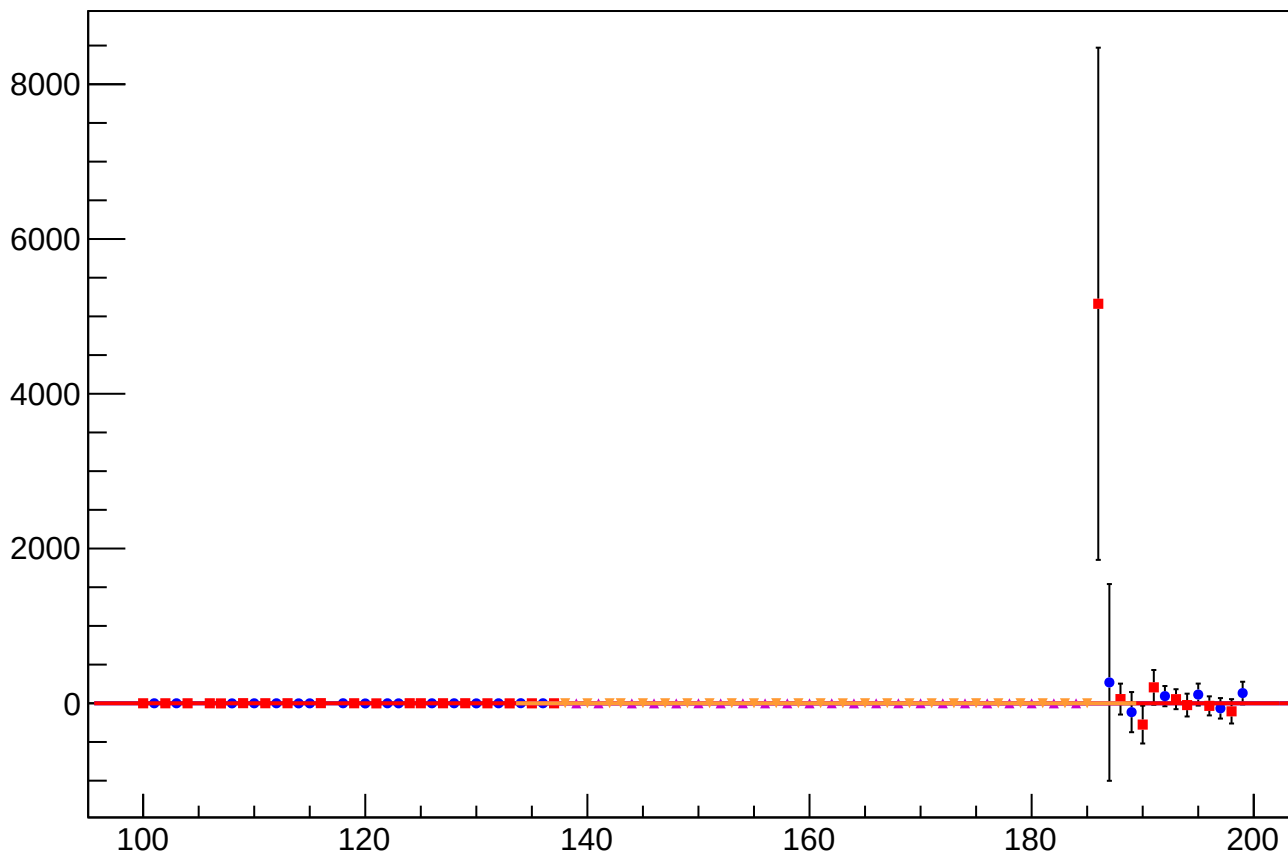
Right: 17.302 $\pm$ 0.010 χ^2/NDF : 38862880.3/49

In: 19.144 $\pm$ 0.015 χ^2/NDF : 52702276.4/45

Out: 19.007 $\pm$ 0.014 χ^2/NDF : 57182732.2/51

All: 19.072 $\pm$ 0.010 χ^2/NDF : 109885054.1/97

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 17.8/22

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 23.4/26

Left In: -0.075 $\pm$ 0.078 χ^2 /NDF:34.8/22

Left: 0.041 $\pm$ 0.055 χ^2 /NDF: 55.8/47

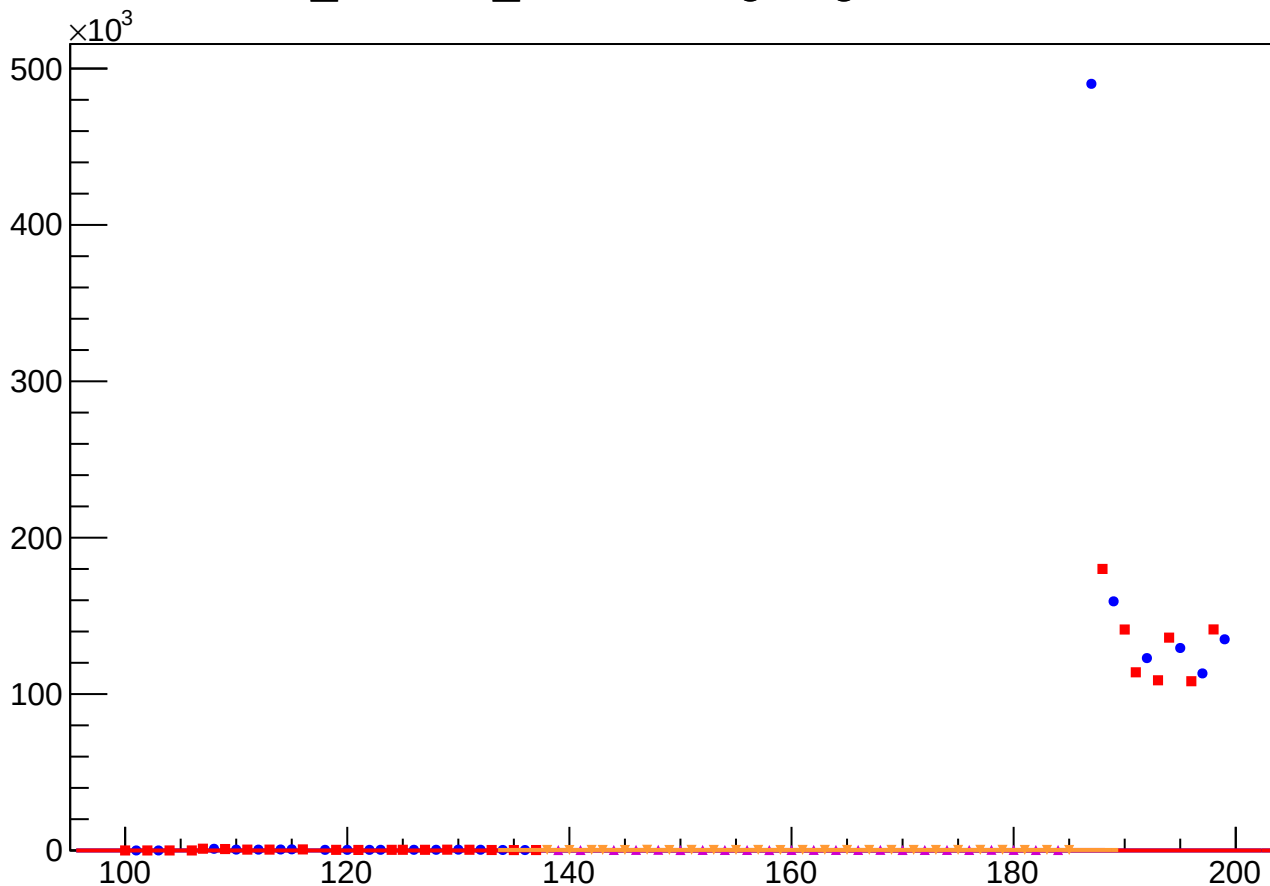
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 41.3/49

In: 0.000 $\pm$ 0.002 χ^2 /NDF:53.5/45

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:44.1/51

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 97.7/97

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: 19782532.4/25

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

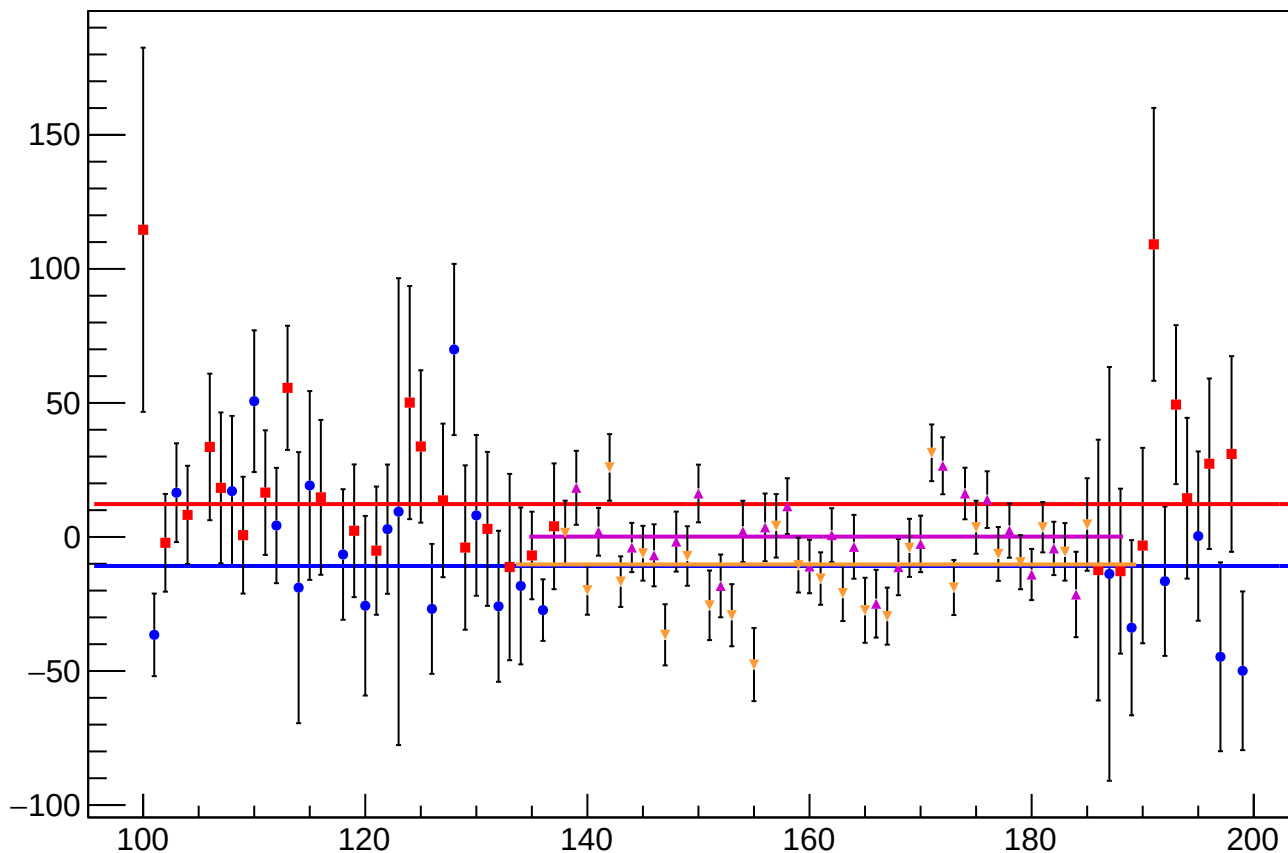
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 38301017.4/48

In: 1.914 $\pm$ 0.001 χ^2 /NDF:52921698.8/45

Out: 1.937 $\pm$ 0.001 χ^2 /NDF:56090357.1/50

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 109012193.9/96

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -10.819 ± 5.213 $\chi^2/\text{NDF}: 26.2/22$

Left Out: -10.235 ± 2.167 $\chi^2/\text{NDF}: 58.0/24$

Right Out: 12.260 ± 5.166 $\chi^2/\text{NDF}: 18.6/26$

Left In: 0.130 ± 2.242 $\chi^2/\text{NDF}: 29.8/22$

Left: -5.230 ± 1.558 $\chi^2/\text{NDF}: 98.9/47$

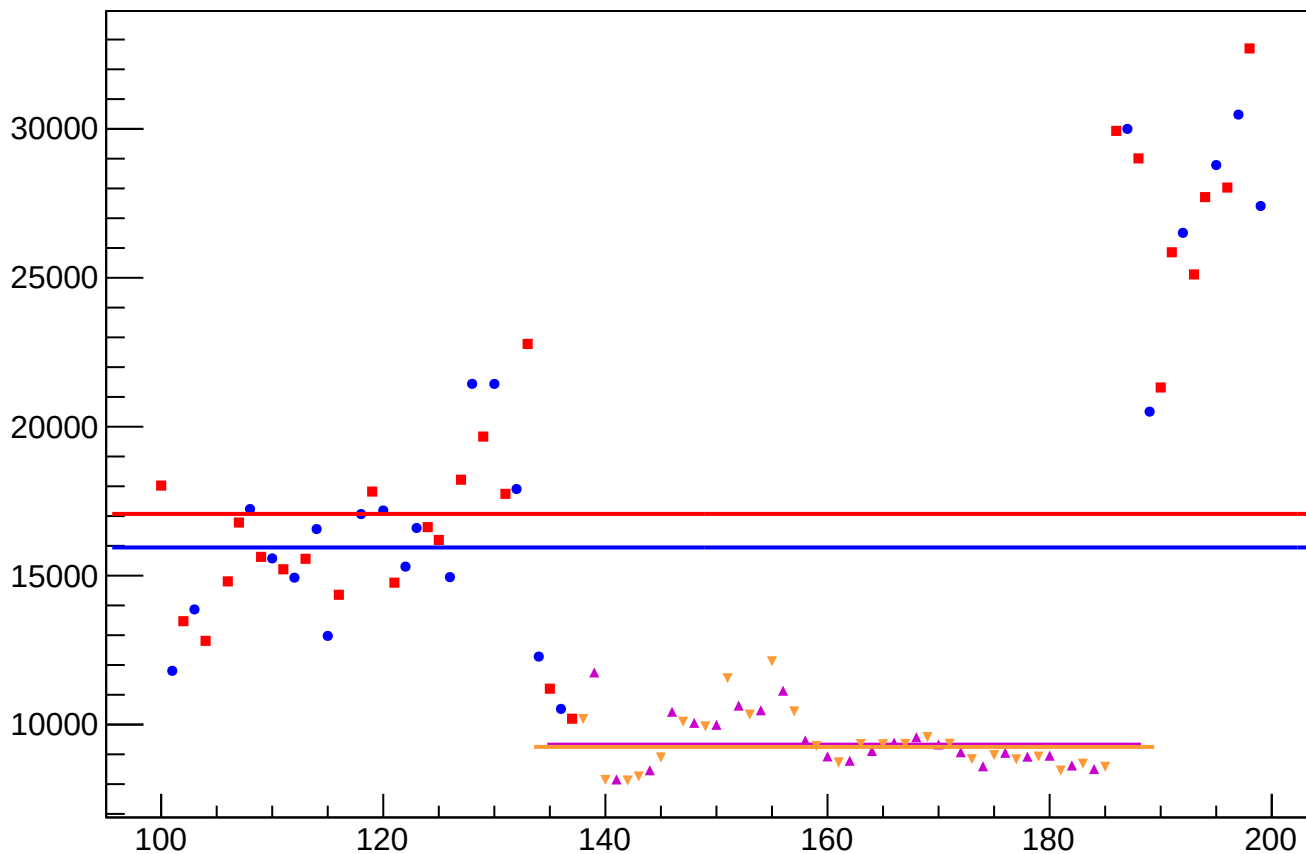
Right: 0.825 ± 3.670 $\chi^2/\text{NDF}: 54.7/49$

In: -1.579 ± 2.060 $\chi^2/\text{NDF}: 59.8/45$

Out: -6.870 ± 1.998 $\chi^2/\text{NDF}: 92.7/51$

All: -4.305 ± 1.434 $\chi^2/\text{NDF}: 155.8/97$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 15945.873 $\pm$ 3.686 χ^2 /NDF: 2182493.6/22

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 17072.815 $\pm$ 3.653 χ^2 /NDF: 2303944.7/26

Left In: 9325.112 $\pm$ 1.585 χ^2 /NDF:280927.7/22

Left: 9285.937 $\pm$ 1.102 χ^2 /NDF: 614111.7/47

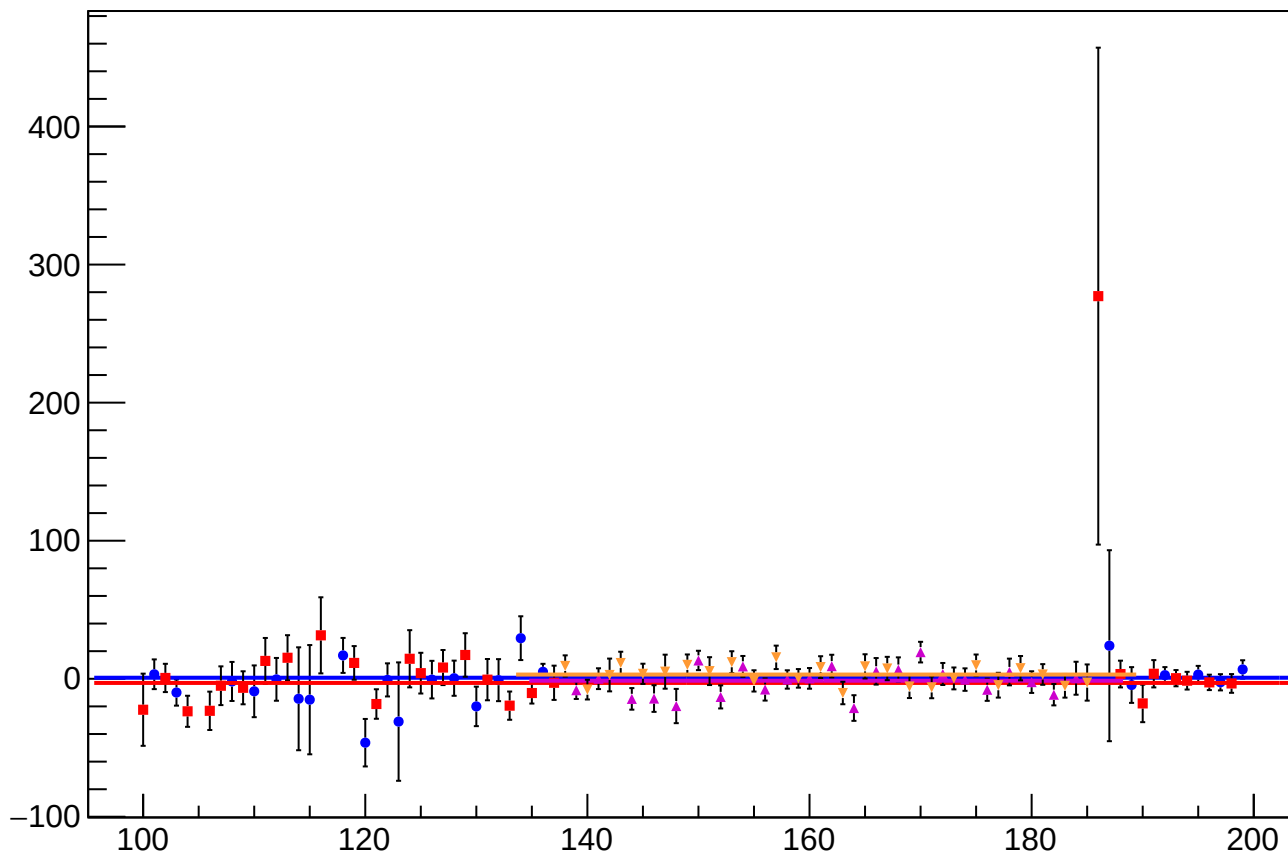
Right: 16514.454 $\pm$ 2.595 χ^2 /NDF: 4533592.4/49

In: 10358.685 $\pm$ 1.456 χ^2 /NDF:5185665.5/45

Out: 10419.609 $\pm$ 1.413 χ^2 /NDF:6536561.7/51

All: 10390.073 $\pm$ 1.014 χ^2 /NDF: 11723128.7

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 ± 2.006 $\chi^2/\text{NDF}: 25.2/26$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

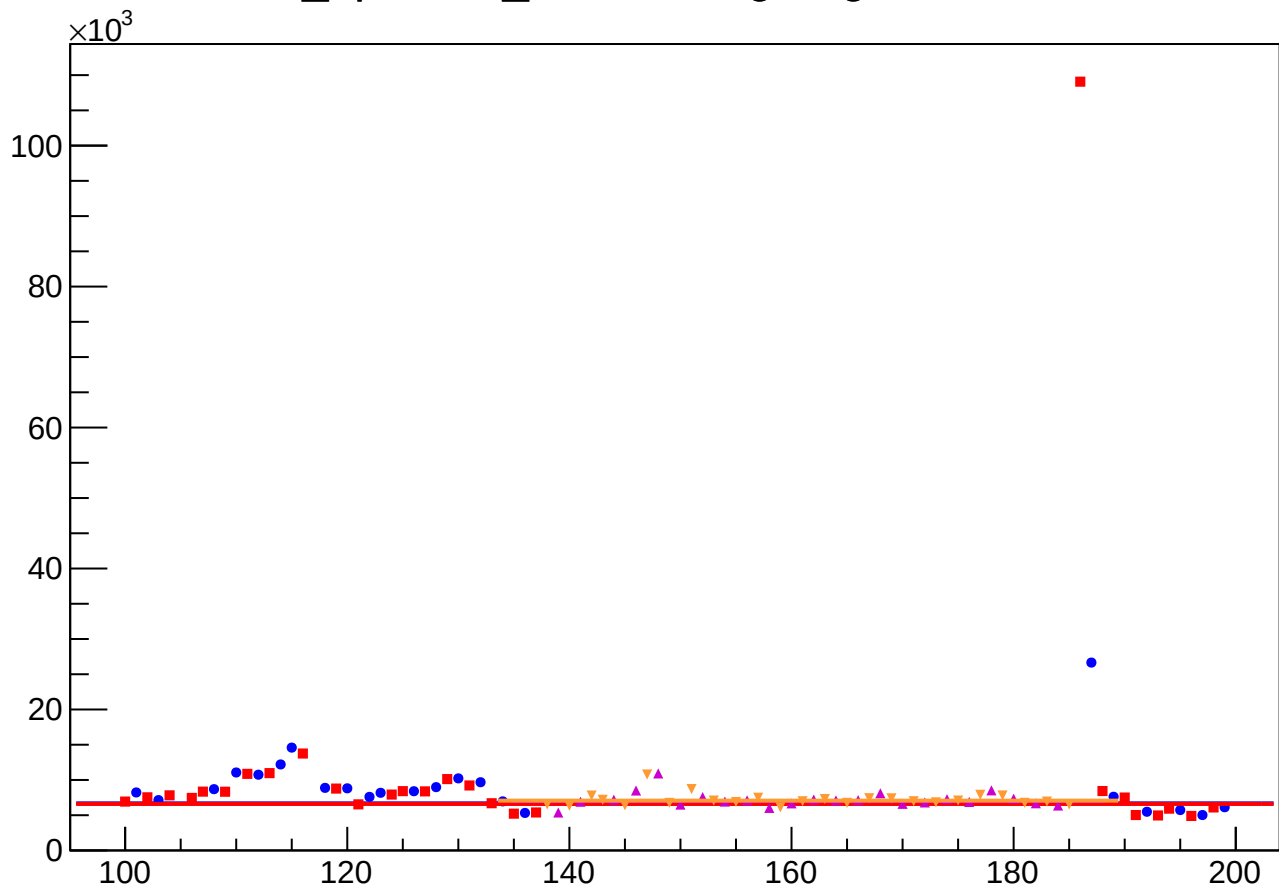
Right: -1.246 ± 1.465 $\chi^2/\text{NDF}: 46.1/49$

In: -0.566 ± 1.329 $\chi^2/\text{NDF}: 55.2/45$

Out: 0.598 ± 1.278 $\chi^2/\text{NDF}: 48.9/51$

All: 0.039 ± 0.921 $\chi^2/\text{NDF}: 104.6/97$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6680.264 $\pm$ 1.517 χ^2/NDF : 1450474.9/22

Left Out: 7066.826 $\pm$ 1.173 χ^2/NDF : 387449.8/24

Right Out: 6599.931 $\pm$ 1.418 χ^2/NDF : 2072210.0/26

Left In: 7000.532 $\pm$ 1.197 χ^2/NDF : 550029.3/22

Left: 7034.358 $\pm$ 0.838 χ^2/NDF : 939043.5/47

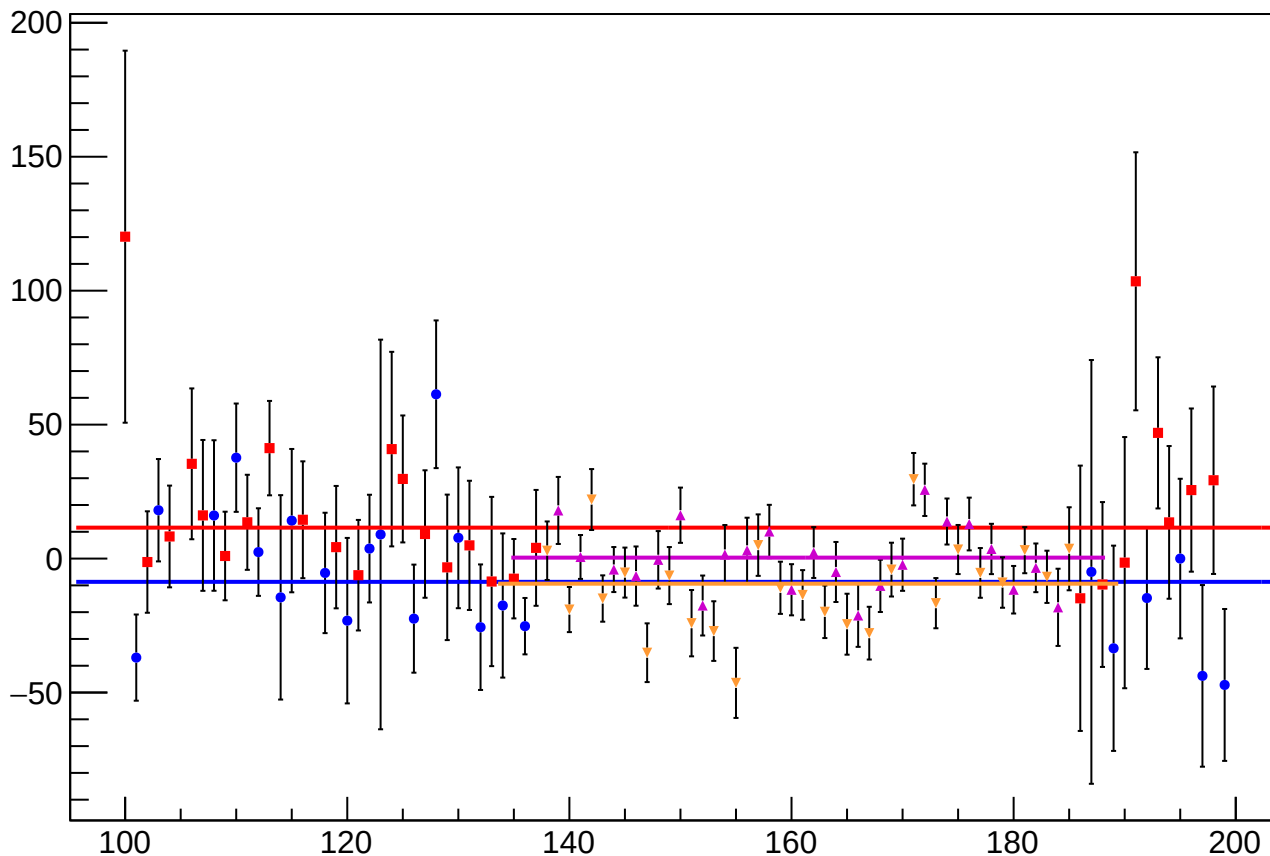
Right: 6637.404 $\pm$ 1.036 χ^2/NDF : 3524181.6/49

In: 6877.579 $\pm$ 0.940 χ^2/NDF : 2027975.2/45

Out: 6877.170 $\pm$ 0.904 χ^2/NDF : 2524018.4/51

All: 6877.367 $\pm$ 0.651 χ^2/NDF : 4551993.6/97

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: 11.548 $\pm$ 4.636 χ^2/NDF : 18.1/26

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

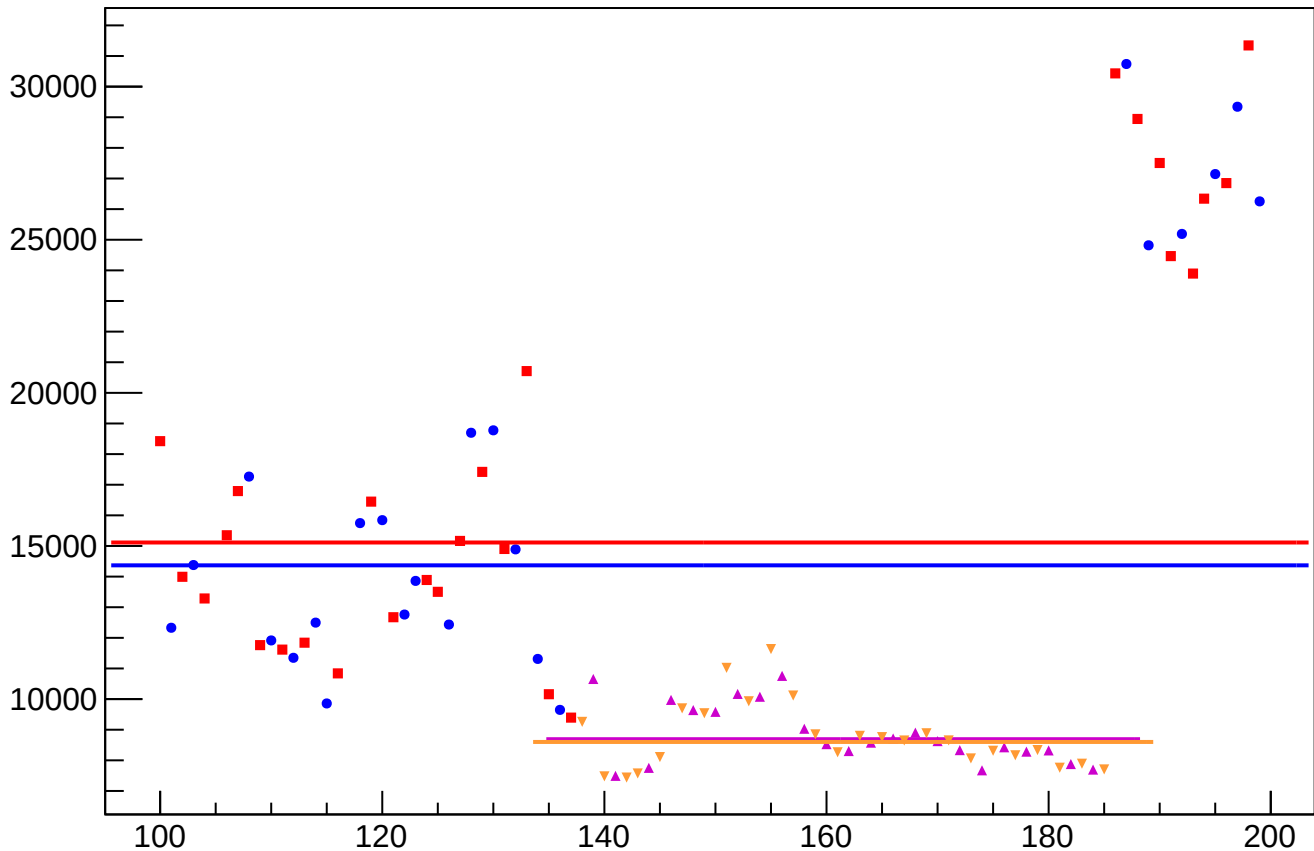
Right: 1.624 $\pm$ 3.309 χ^2/NDF : 54.3/49

In: -1.128 $\pm$ 1.913 χ^2/NDF : 59.6/45

Out: -6.044 $\pm$ 1.850 χ^2/NDF : 93.7/51

All: -3.668 $\pm$ 1.330 χ^2/NDF : 156.6/97

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: 15113.704 $\pm$ 3.278 χ^2 /NDF: 2872504.0/26

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

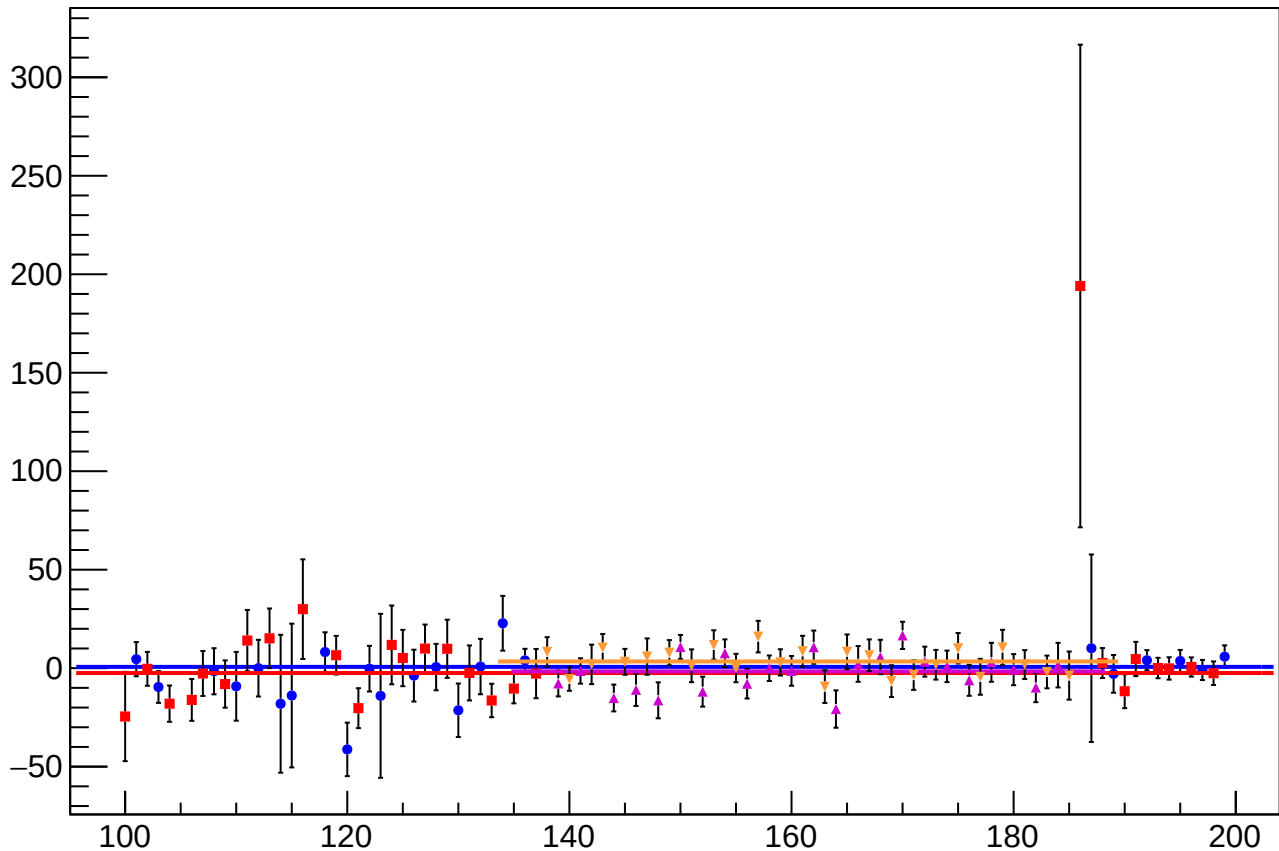
Right: 14747.736 $\pm$ 2.340 χ^2 /NDF: 5367069.5/49

In: 9620.976 $\pm$ 1.353 χ^2 /NDF: 5254388.5/45

Out: 9637.722 $\pm$ 1.308 χ^2 /NDF: 6629536.6/51

All: 9629.629 $\pm$ 0.940 χ^2 /NDF: 11884004.3/95

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.651 $\pm$ 1.903 χ^2/NDF : 20.2/22

Left Out: 3.406 $\pm$ 1.550 χ^2/NDF : 16.8/24

Right Out: -2.471 $\pm$ 1.754 χ^2/NDF : 25.8/26

Left In: -1.627 $\pm$ 1.599 χ^2/NDF : 33.5/22

Left: 0.967 $\pm$ 1.113 χ^2/NDF : 55.4/47

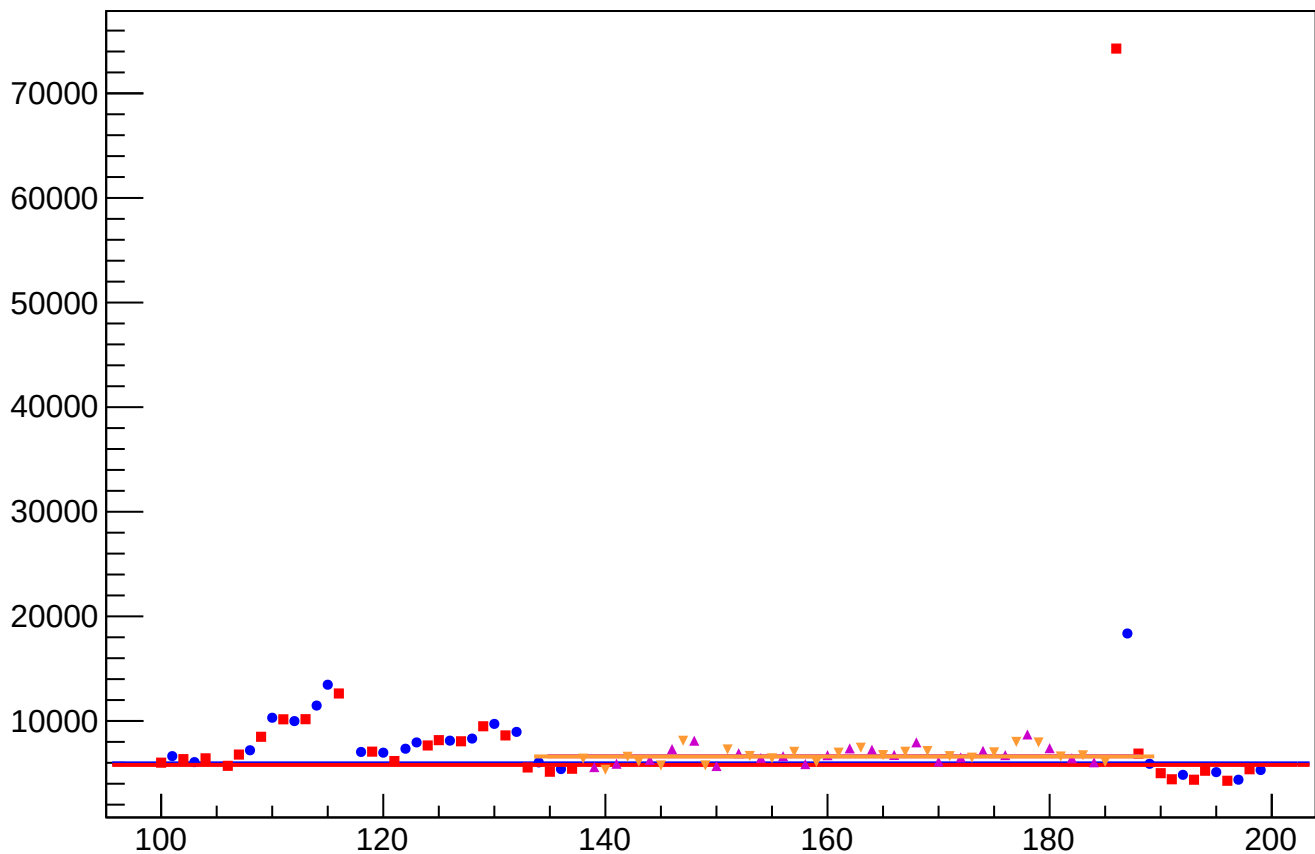
Right: -1.036 $\pm$ 1.290 χ^2/NDF : 47.4/49

In: -0.684 $\pm$ 1.224 χ^2/NDF : 54.5/45

Out: 0.829 $\pm$ 1.162 χ^2/NDF : 48.9/51

All: 0.112 $\pm$ 0.843 χ^2/NDF : 104.2/97

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5946.427+/-1.346 χ^2/NDF : 1404110.4/22

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5800.213+/-1.241 χ^2/NDF : 2107859.8/26

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

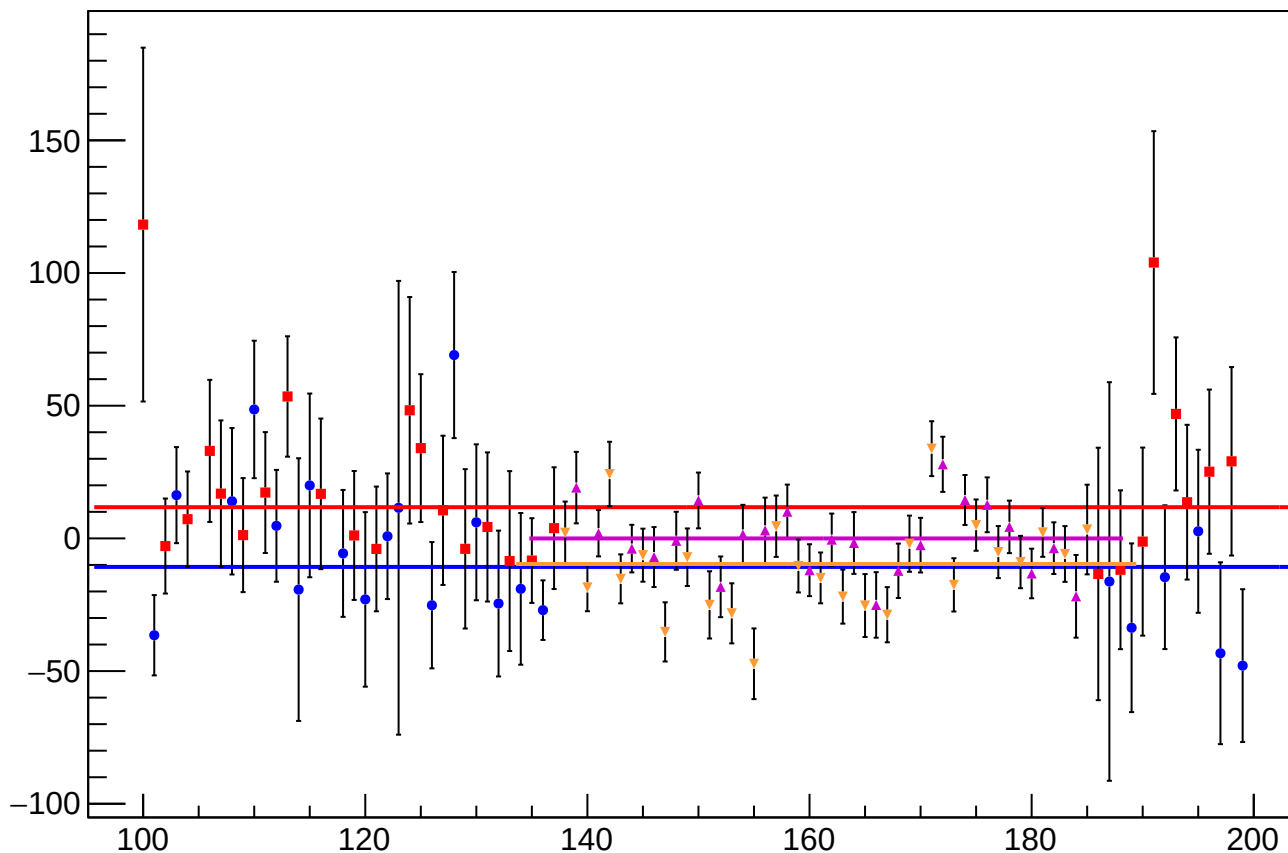
Right: 5867.389+/-0.912 χ^2/NDF : 3518352.6/49

In: 6346.294+/-0.866 χ^2/NDF : 1985054.9/45

Out: 6253.259+/-0.821 χ^2/NDF : 2743817.2/51

All: 6297.342+/-0.596 χ^2/NDF : 4734949.4/97

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -10.749 ± 5.104 $\chi^2/\text{NDF}: 26.0/22$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 11.759 ± 5.058 $\chi^2/\text{NDF}: 18.5/26$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

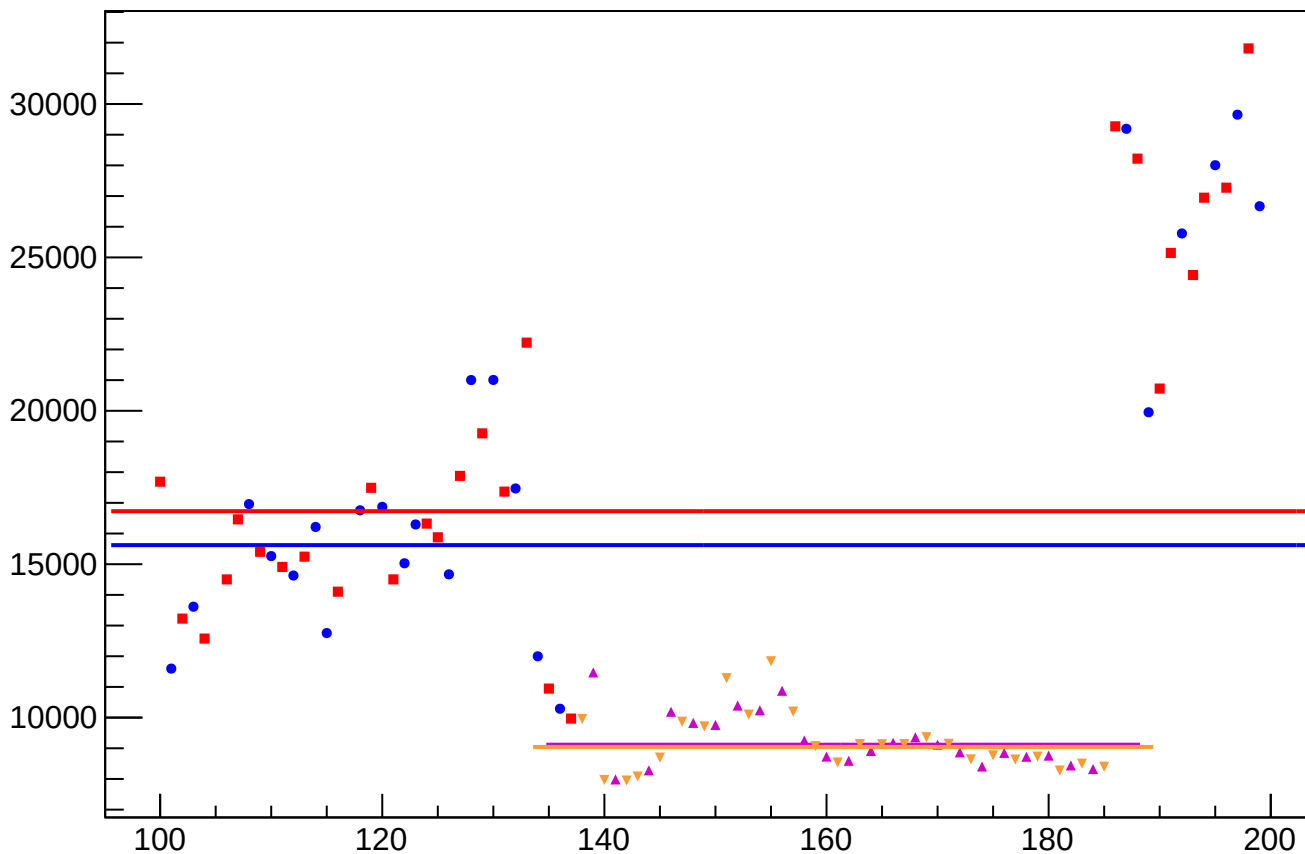
Right: 0.607 ± 3.593 $\chi^2/\text{NDF}: 54.3/49$

In: -1.690 ± 2.014 $\chi^2/\text{NDF}: 60.3/45$

Out: -6.454 ± 1.954 $\chi^2/\text{NDF}: 93.6/51$

All: -4.145 ± 1.402 $\chi^2/\text{NDF}: 156.8/97$

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: 16728.021 $\pm$ 3.577 χ^2 /NDF: 2271432.1/26

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

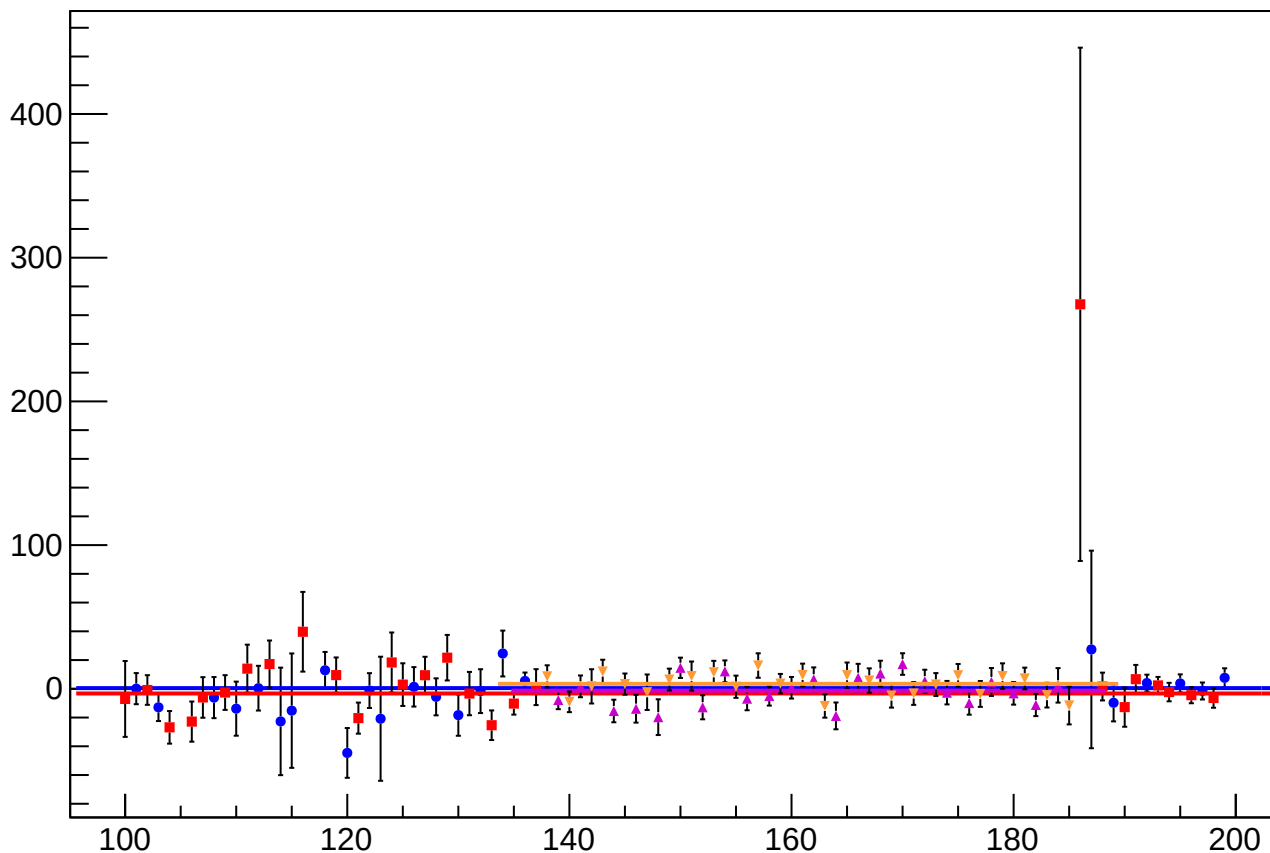
Right: 16179.885 $\pm$ 2.540 χ^2 /NDF: 4477366.8/49

In: 10129.875 $\pm$ 1.424 χ^2 /NDF:5178813.9/45

Out: 10190.125 $\pm$ 1.382 χ^2 /NDF:6527236.2/51

All: 10160.915 $\pm$ 0.992 χ^2 /NDF: 11706972.2

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.477 $\pm$ 2.155 χ^2/NDF : 18.9/22

Left Out: 3.439 $\pm$ 1.666 χ^2/NDF : 18.9/24

Right Out: -3.253 $\pm$ 2.016 χ^2/NDF : 30.5/26

Left In: -1.291 $\pm$ 1.701 χ^2/NDF : 36.5/22

Left: 1.123 $\pm$ 1.190 χ^2/NDF : 59.4/47

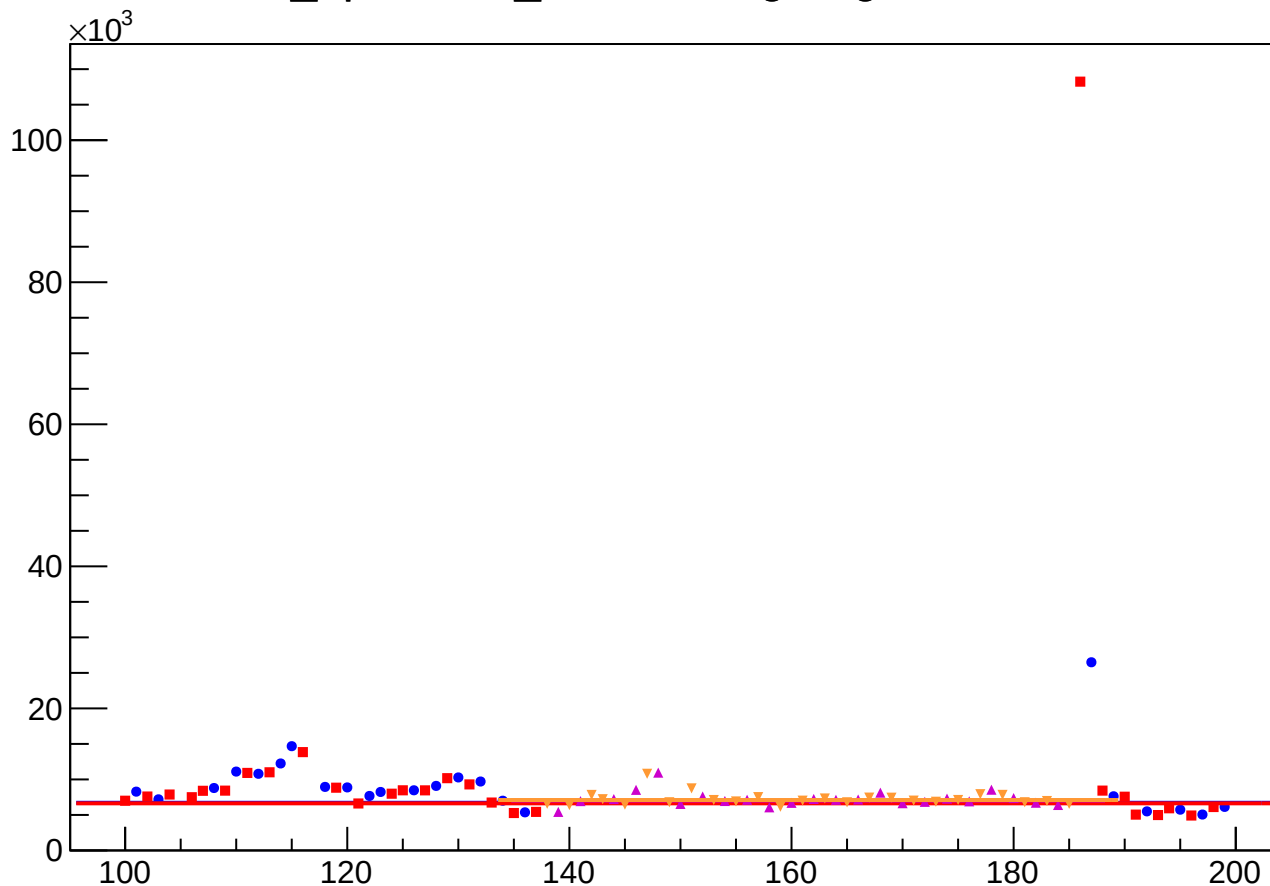
Right: -1.512 $\pm$ 1.472 χ^2/NDF : 51.0/49

In: -0.612 $\pm$ 1.335 χ^2/NDF : 55.9/45

Out: 0.723 $\pm$ 1.284 χ^2/NDF : 56.0/51

All: 0.081 $\pm$ 0.926 χ^2/NDF : 112.4/97

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6711.620 $\pm$ 1.524 χ^2/NDF : 1457499.7/22

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6634.073 $\pm$ 1.425 χ^2/NDF : 2076751.7/26

Left In: 7033.702 $\pm$ 1.203 χ^2/NDF : 541035.5/22

Left: 7066.886 $\pm$ 0.842 χ^2/NDF : 925077.6/47

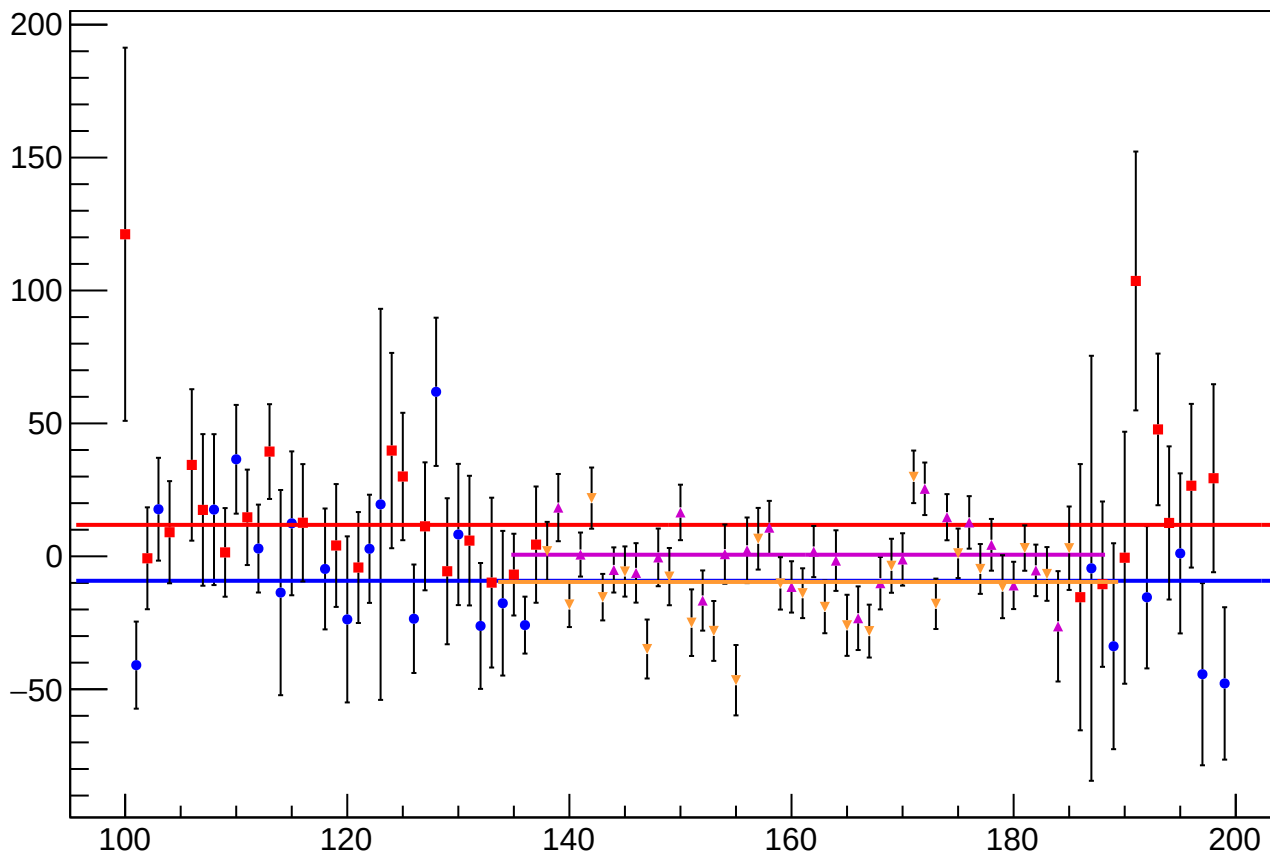
Right: 6670.259 $\pm$ 1.041 χ^2/NDF : 3535632.7/49

In: 6910.079 $\pm$ 0.944 χ^2/NDF : 2026061.4/45

Out: 6910.132 $\pm$ 0.908 χ^2/NDF : 2522440.3/51

All: 6910.106 $\pm$ 0.654 χ^2/NDF : 4548501.7/97

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: 11.832 $\pm$ 4.700 χ^2/NDF : 17.2/26

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

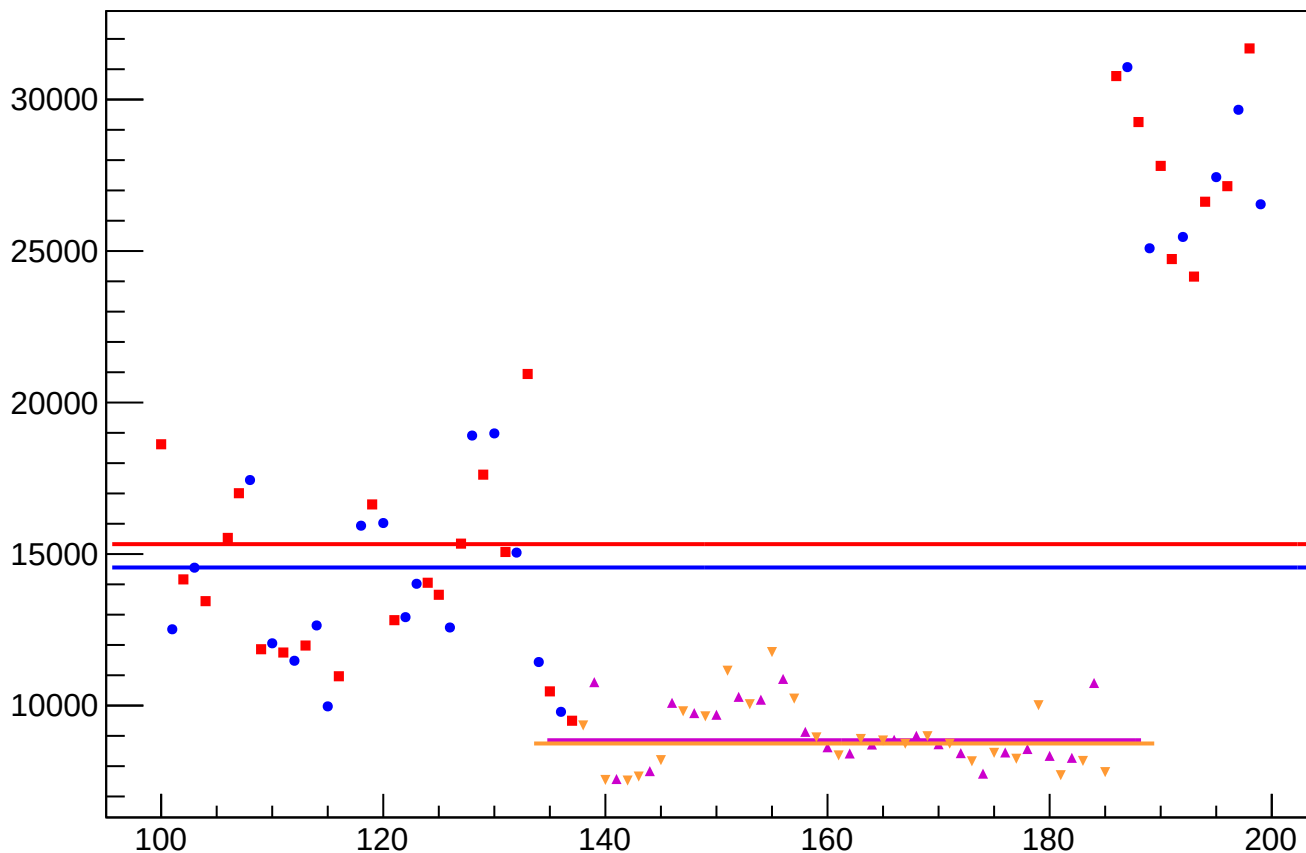
Right: 1.506 $\pm$ 3.354 χ^2/NDF : 54.5/49

In: -1.027 $\pm$ 1.950 χ^2/NDF : 60.6/45

Out: -6.188 $\pm$ 1.885 χ^2/NDF : 92.4/51

All: -3.695 $\pm$ 1.355 χ^2/NDF : 156.6/97

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: 15327.008 $\pm$ 3.323 χ^2 /NDF: 2844404.3/26

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

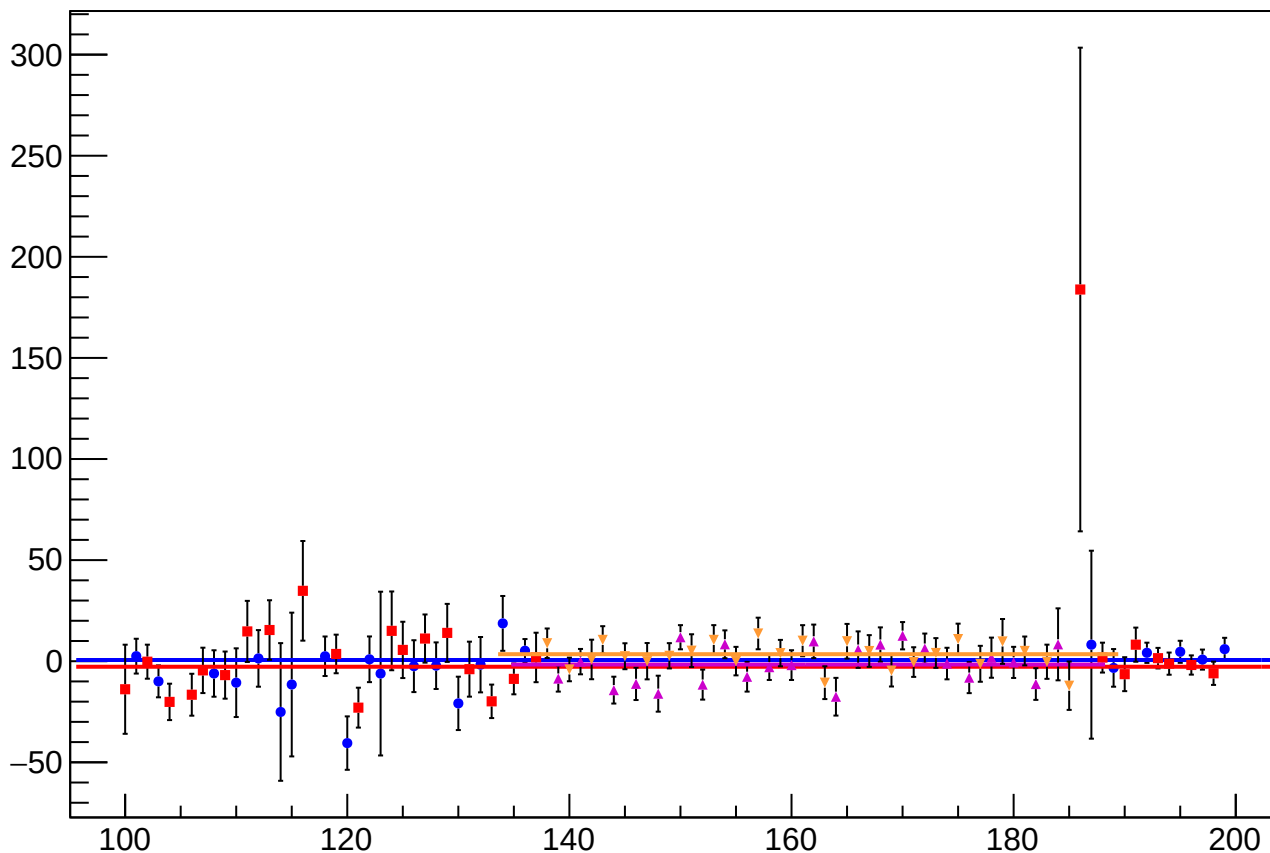
Right: 14949.039 $\pm$ 2.371 χ^2 /NDF: 5324849.2/49

In: 9801.623 $\pm$ 1.379 χ^2 /NDF:5188135.3/45

Out: 9806.218 $\pm$ 1.333 χ^2 /NDF:6596255.3/51

All: 9803.999 $\pm$ 0.958 χ^2 /NDF: 11784396.3/95

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.598 $\pm$ 1.856 χ^2/NDF : 20.4/22

Left Out: 3.473 $\pm$ 1.524 χ^2/NDF :15.8/24

Right Out: -2.734 $\pm$ 1.711 χ^2/NDF : 30.6/26

Left In: -1.638 $\pm$ 1.578 χ^2/NDF :33.7/22

Left: 1.006 $\pm$ 1.096 χ^2/NDF : 54.9/47

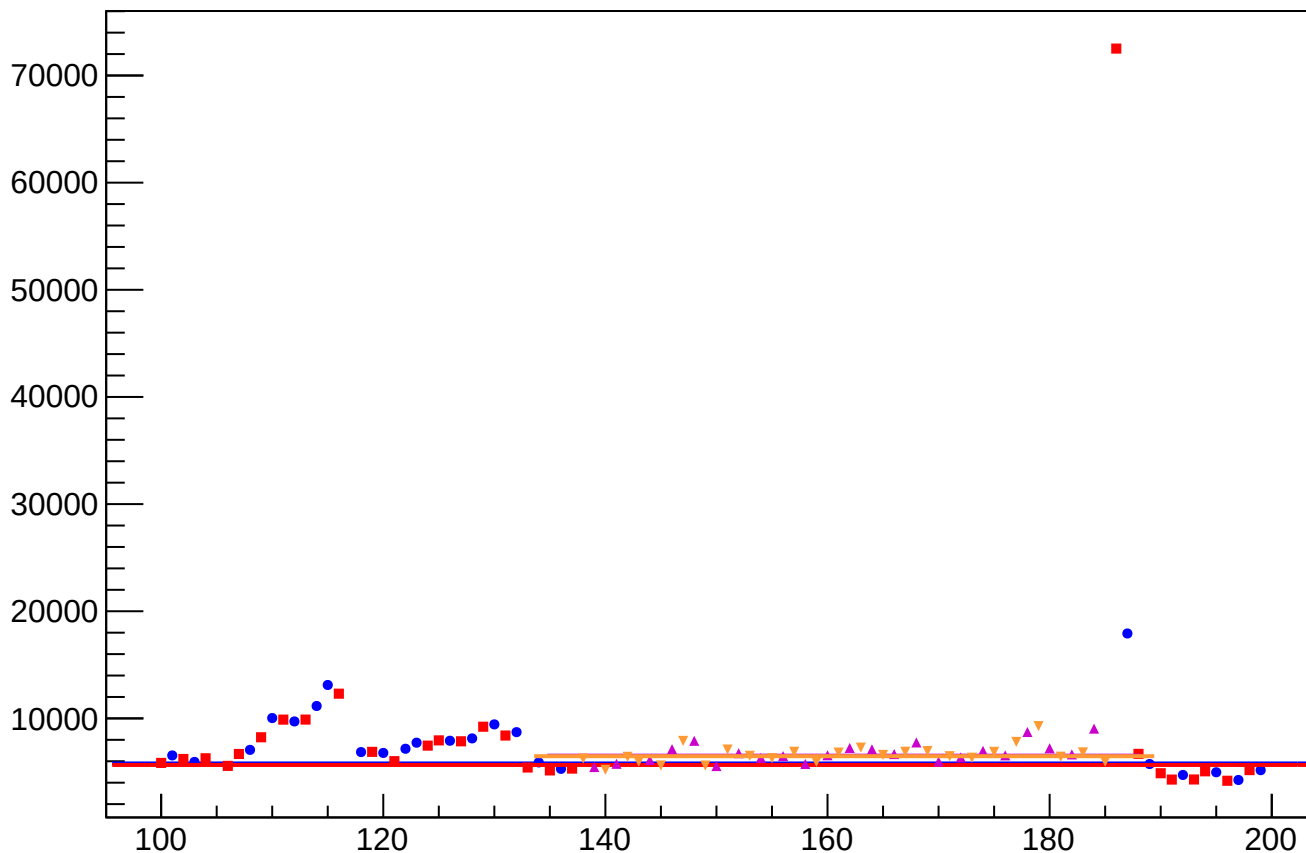
Right: -1.203 $\pm$ 1.258 χ^2/NDF : 52.8/49

In: -0.700 $\pm$ 1.202 χ^2/NDF :55.0/45

Out: 0.727 $\pm$ 1.138 χ^2/NDF :53.7/51

All: 0.053 $\pm$ 0.827 χ^2/NDF : 109.4/97

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

Right: 5718.959 $\pm$ 0.890 χ^2/NDF : 3518765.2/49

Left Out: 6471.976 $\pm$ 1.078

χ^2/NDF : 490282.9/24

In: 6216.782 $\pm$ 0.850 χ^2/NDF : 2071863.6/45

Right Out: 5654.689 $\pm$ 1.210 χ^2/NDF : 2099136.9/26

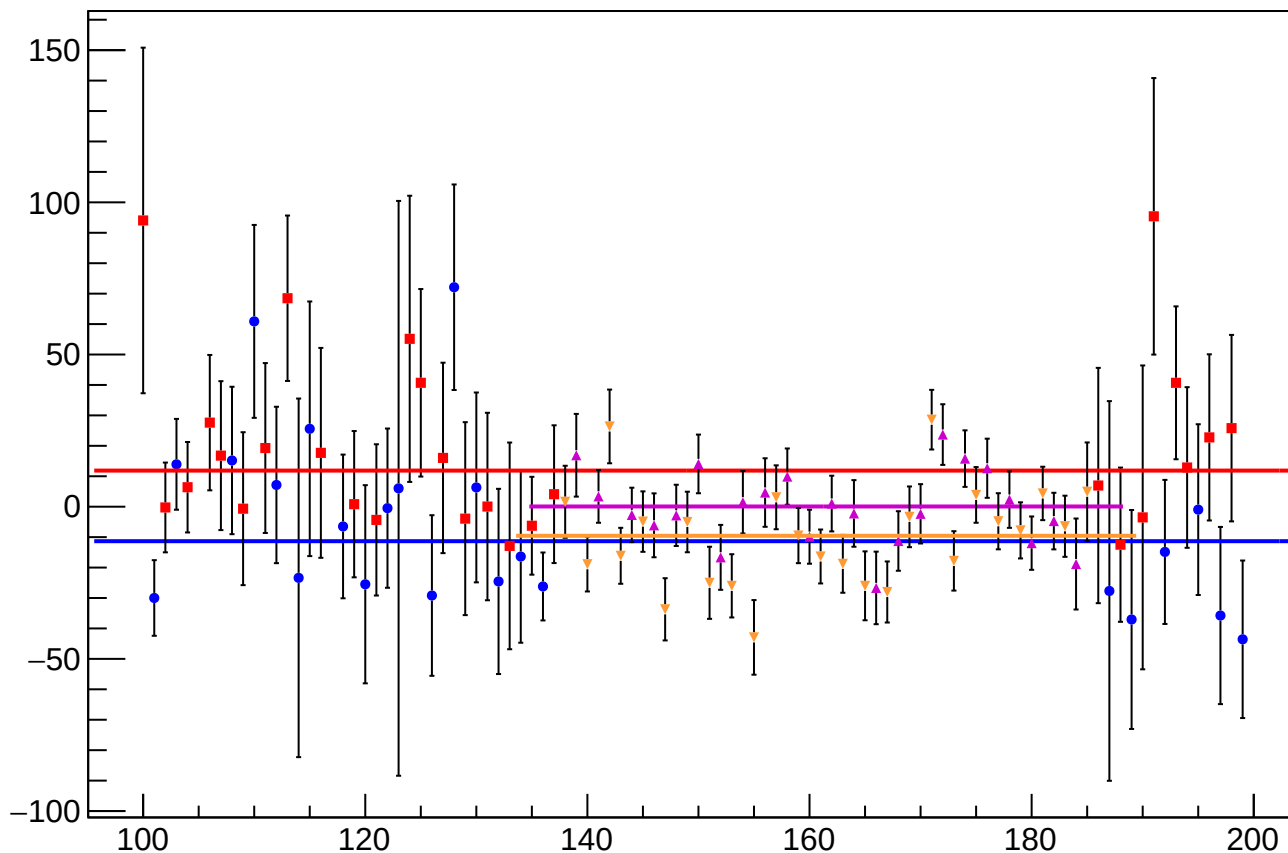
Out: 6110.419 $\pm$ 0.805 χ^2/NDF : 2843775.2/51

Left In: 6521.975 $\pm$ 1.116

χ^2/NDF : 480034.7/22

All: 6160.699 $\pm$ 0.584 χ^2/NDF : 4923894.2/97

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: 11.868 $\pm$ 4.918 χ^2/NDF : 18.9/26

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

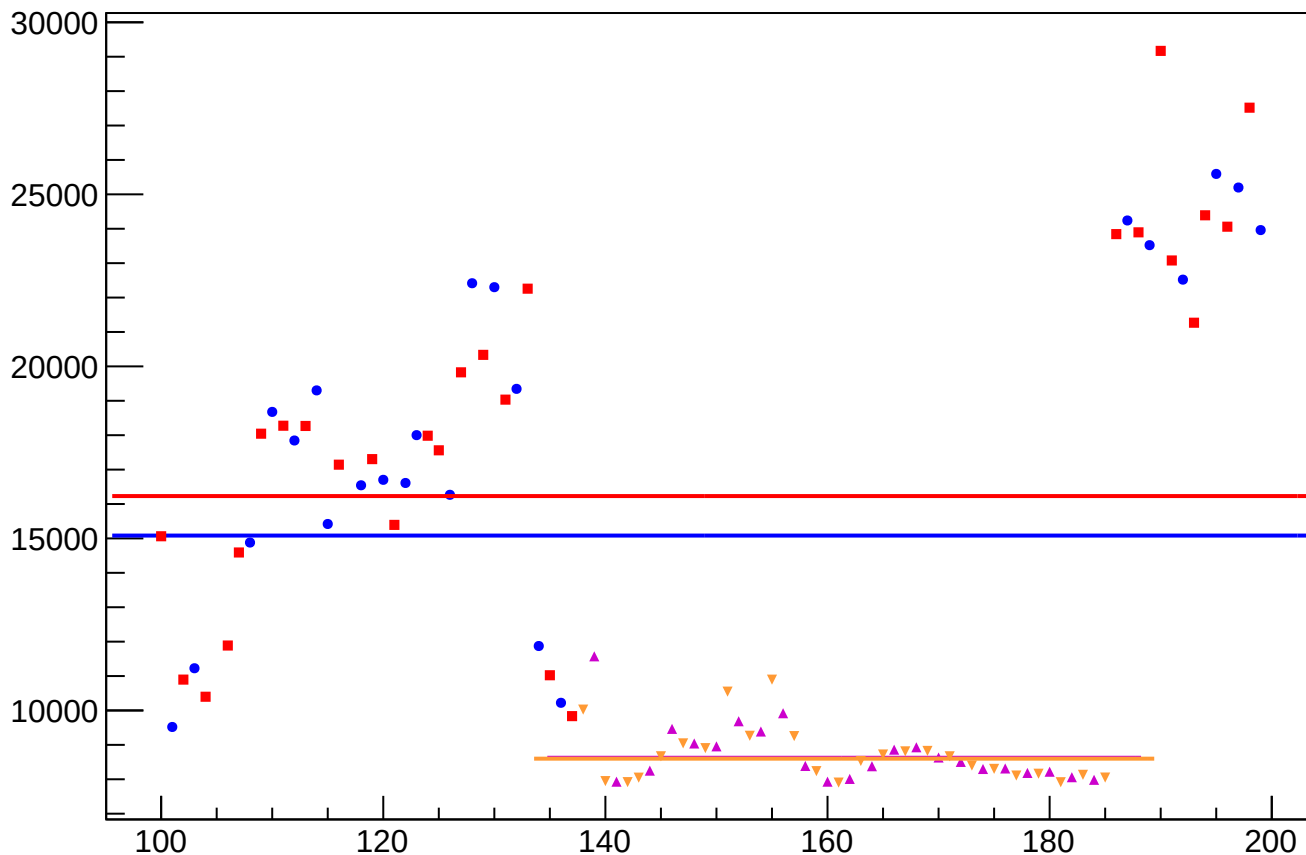
Right: 0.341 $\pm$ 3.489 χ^2/NDF : 55.2/49

In: -1.630 $\pm$ 1.912 χ^2/NDF : 59.5/45

Out: -6.483 $\pm$ 1.862 χ^2/NDF : 94.7/51

All: -4.121 $\pm$ 1.334 χ^2/NDF : 157.5/97

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: 16230.832+/-3.477 χ^2/NDF : 2359439.9/26

Left In: 8625.233+/-1.466 χ^2/NDF : 237310.9/22

Left: 8611.717+/-1.021 χ^2/NDF : 486546.6/47

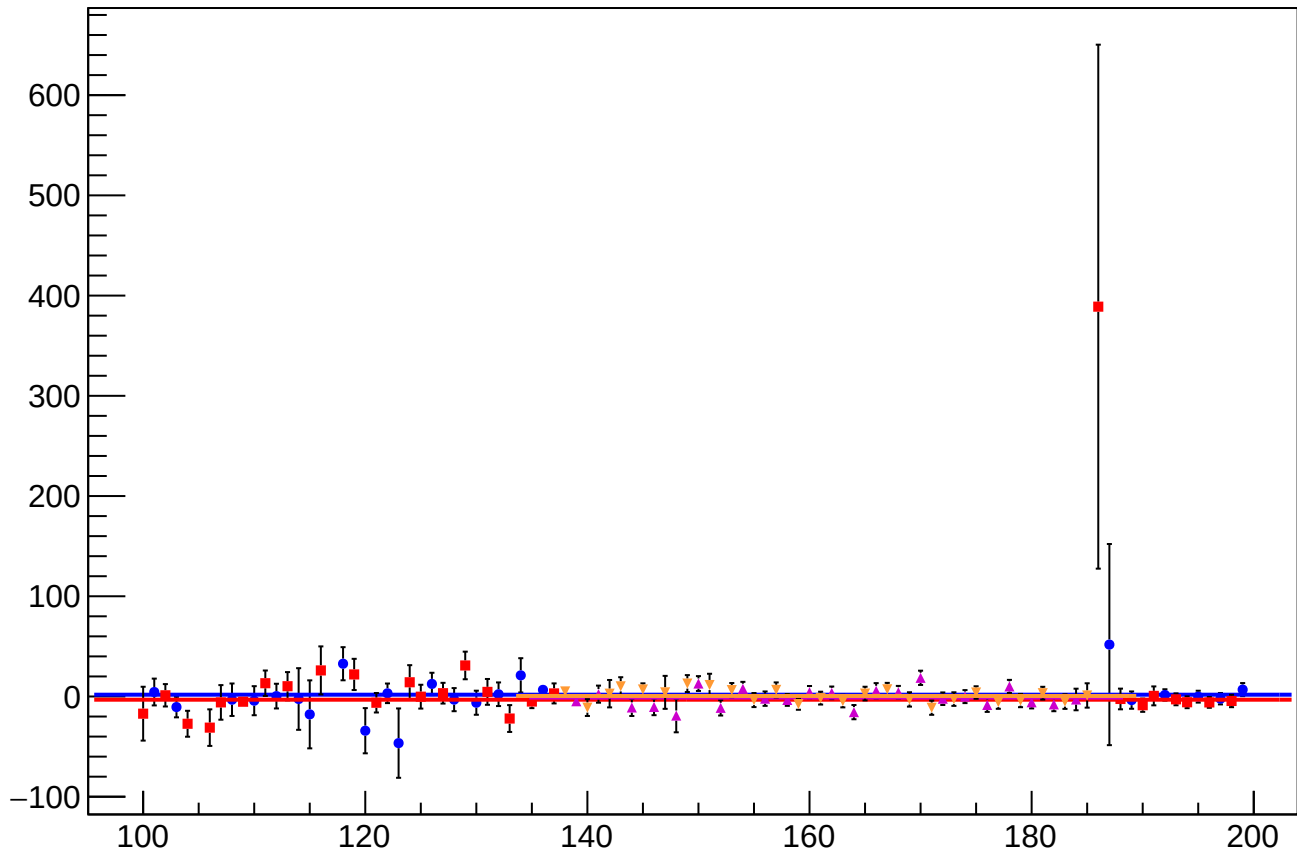
Right: 15660.595+/-2.467 χ^2/NDF : 4787336.9/49

In: 9588.689+/-1.352 χ^2/NDF : 5507438.8/45

Out: 9693.050+/-1.317 χ^2/NDF : 6734718.3/51

All: 9642.249+/-0.943 χ^2/NDF : 12245215.4/99

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.788 $\pm$ 1.968 χ^2/NDF : 16.0/22

Left Out: 0.528 $\pm$ 1.418 χ^2/NDF : 19.5/24

Right Out: -3.206 $\pm$ 1.745 χ^2/NDF : 27.3/26

Left In: -1.050 $\pm$ 1.396 χ^2/NDF : 32.5/22

Left: -0.273 $\pm$ 0.995 χ^2/NDF : 52.6/47

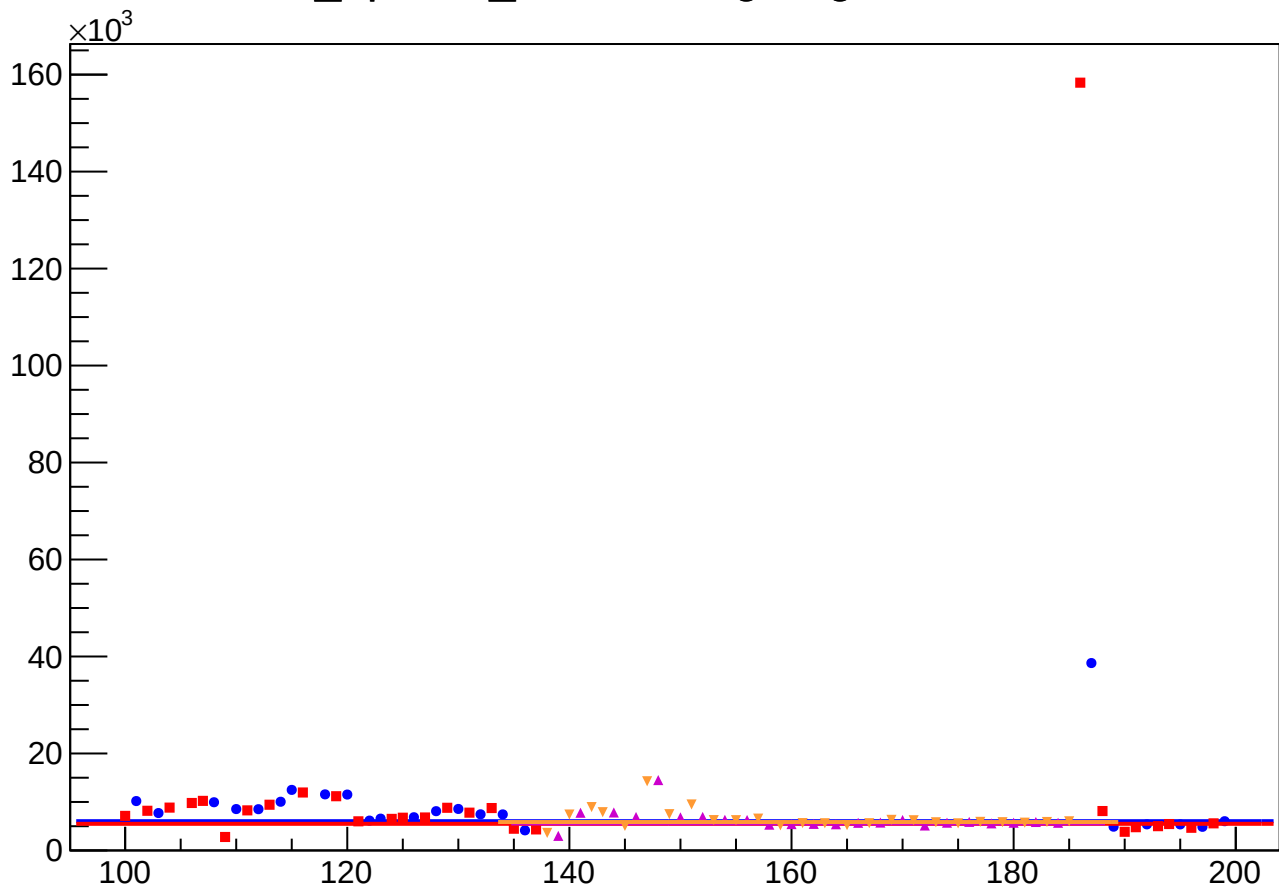
Right: -1.008 $\pm$ 1.306 χ^2/NDF : 46.8/49

In: -0.100 $\pm$ 1.138 χ^2/NDF : 49.9/45

Out: -0.957 $\pm$ 1.100 χ^2/NDF : 49.5/51

All: -0.543 $\pm$ 0.791 χ^2/NDF : 99.7/97

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6037.747 $\pm$ 1.392 χ^2/NDF : 1886274.9/22

Left Out: 5860.605 $\pm$ 1.002 χ^2/NDF : 1690049.2/24

Right Out: 5492.995 $\pm$ 1.234 χ^2/NDF : 3332961.9/26

Left In: 5571.330 $\pm$ 0.987 χ^2/NDF : 2162788.3/22

Left: 5713.698 $\pm$ 0.703 χ^2/NDF : 3895130.2/47

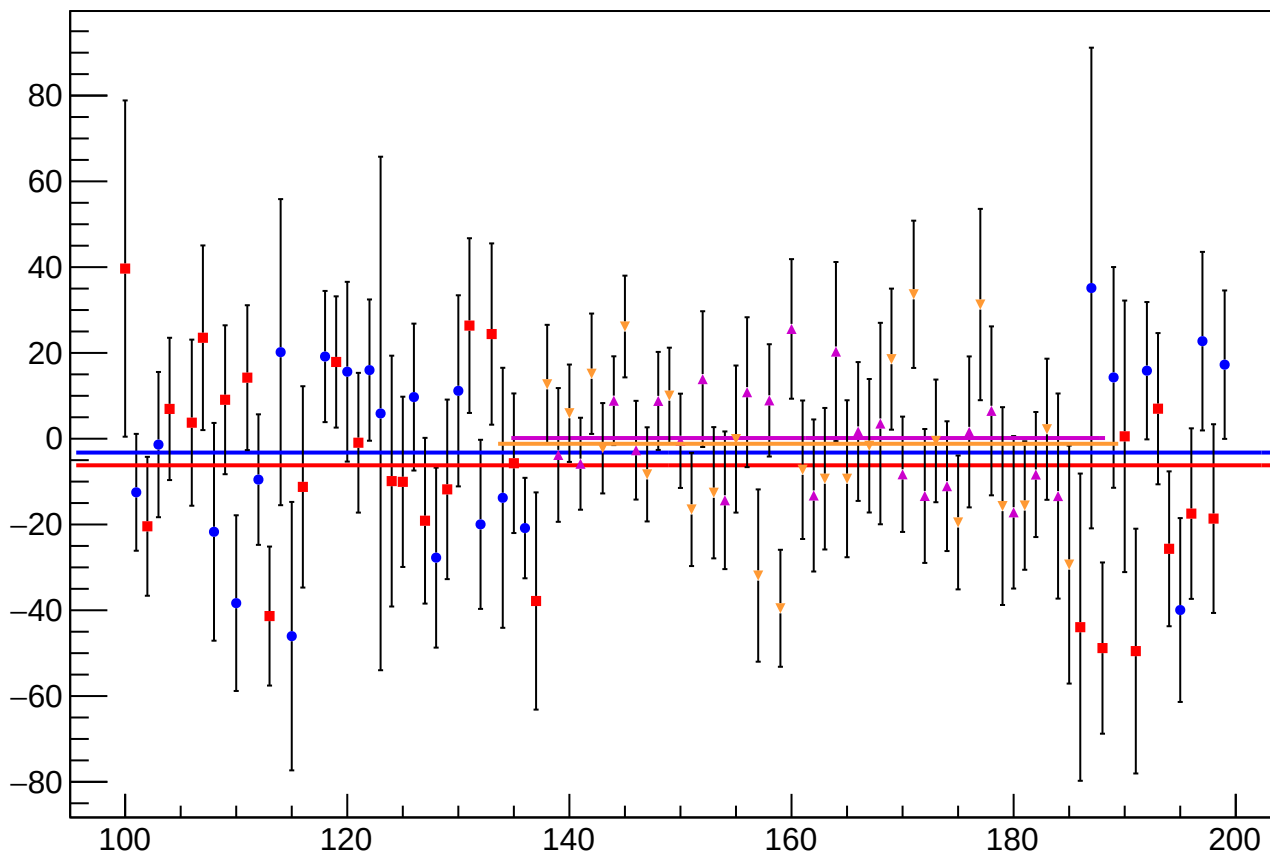
Right: 5732.686 $\pm$ 0.923 χ^2/NDF : 5305037.8/49

In: 5727.375 $\pm$ 0.805 χ^2/NDF : 4123805.3/45

Out: 5714.409 $\pm$ 0.778 χ^2/NDF : 5076496.4/51

All: 5720.670 $\pm$ 0.559 χ^2/NDF : 9200435.8/97

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.232 ± 4.027 χ^2/NDF : 24.5/22

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -6.202 ± 3.822 χ^2/NDF : 31.7/26

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

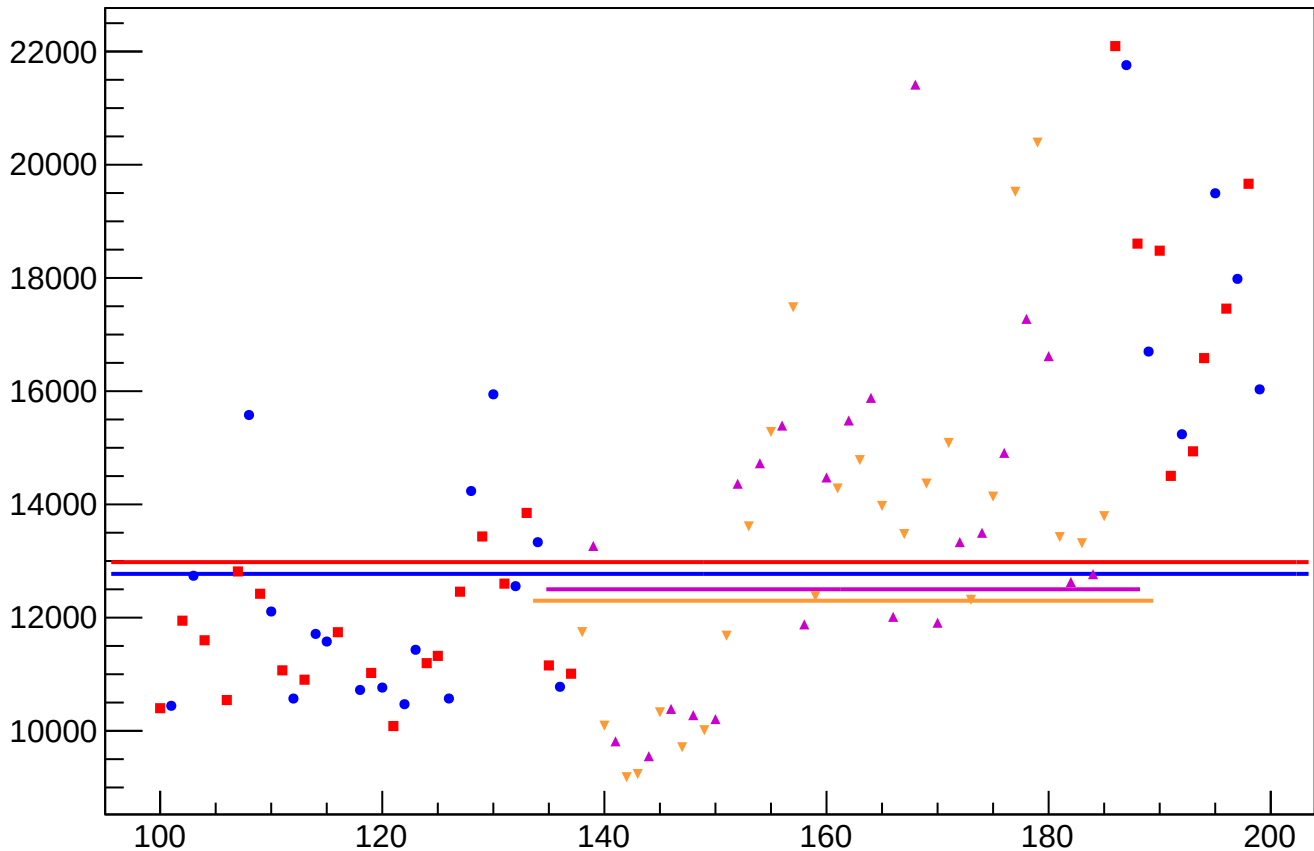
Right: -4.795 ± 2.772 χ^2/NDF : 56.4/49

In: -1.083 ± 2.435 χ^2/NDF : 36.4/45

Out: -3.048 ± 2.330 χ^2/NDF : 66.5/51

All: -2.109 ± 1.683 χ^2/NDF : 103.2/97

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: 12882.231 $\pm$ 1.960 χ^2/NDF : 1944062.8/49

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: 12552.047 $\pm$ 1.647 χ^2/NDF : 2580473.5/51

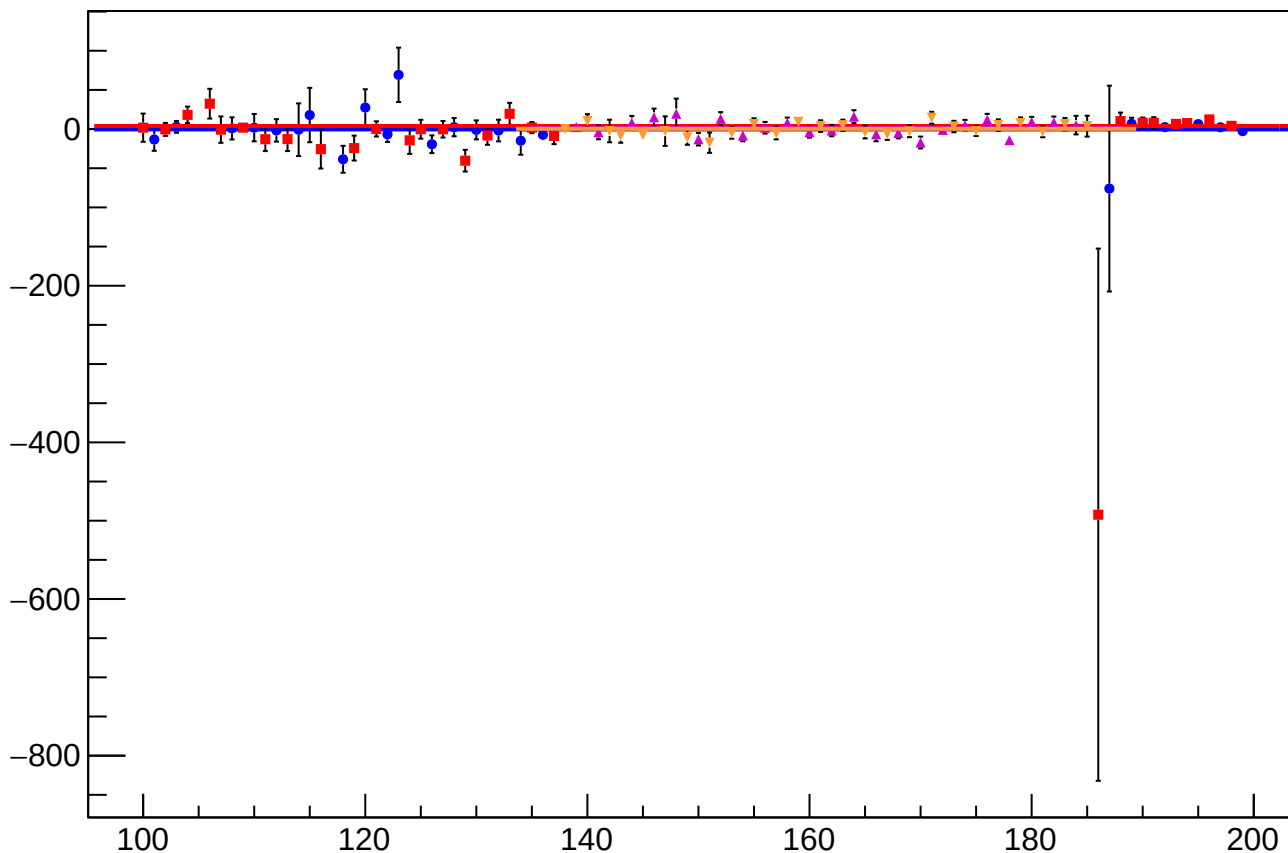
Right Out: 12980.533 $\pm$ 2.702

χ^2/NDF : 1034440.6/26

Left In: 12500.795 $\pm$ 2.162 χ^2/NDF : 1357889.1/22

All: 12575.141 $\pm$ 1.190 χ^2/NDF : 4851402.9/95

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: 3.941 ± 1.606 χ^2/NDF : 34.0/26

Left In: 1.165 ± 1.371 χ^2/NDF : 33.6/22

Left: 0.777 ± 0.991 χ^2/NDF : 52.9/47

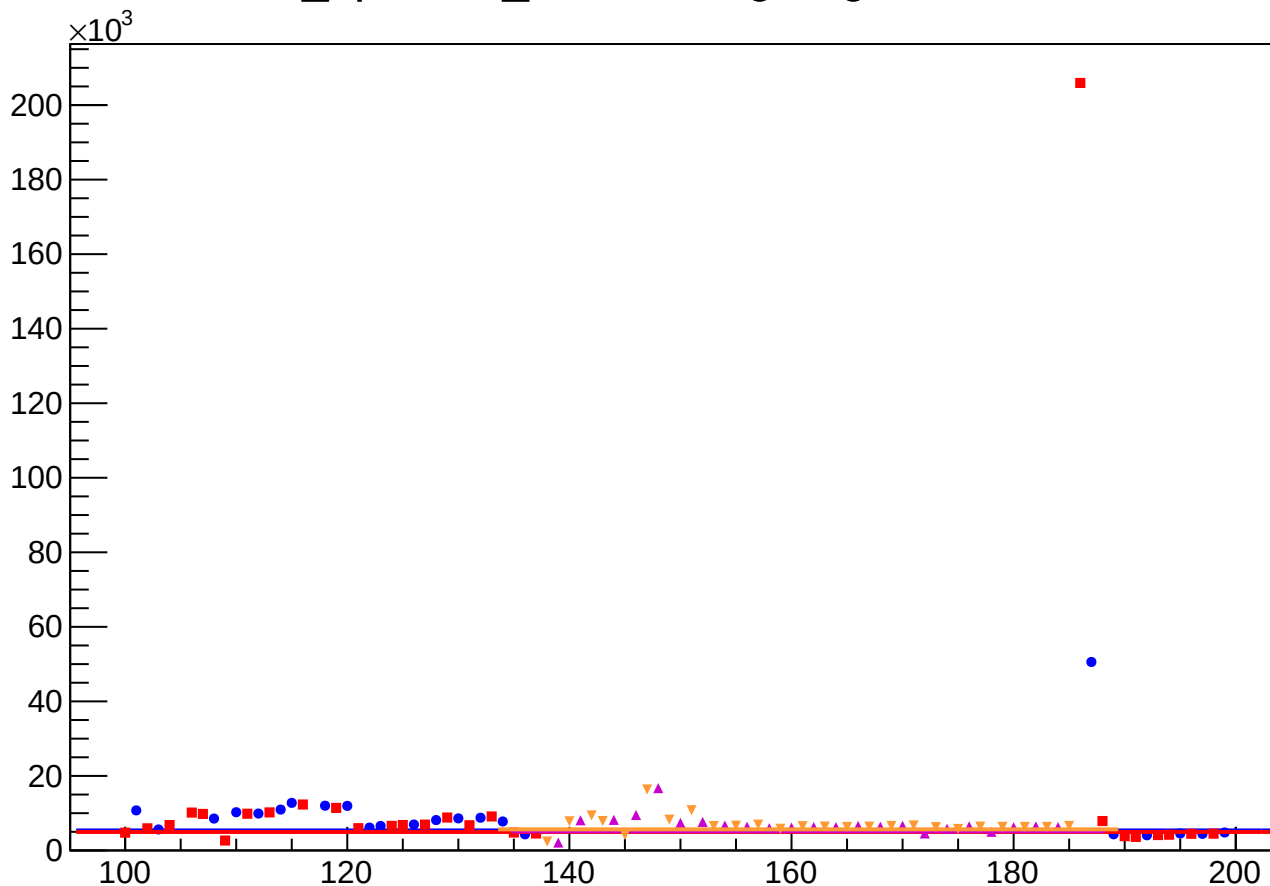
Right: 1.984 ± 1.194 χ^2/NDF : 58.9/49

In: 0.570 ± 1.088 χ^2/NDF : 55.7/45

Out: 1.944 ± 1.069 χ^2/NDF : 55.9/51

All: 1.269 ± 0.763 χ^2/NDF : 112.4/97

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5370.614+/-1.263 χ^2/NDF : 2505589.8/22

Left Out: 5659.441+/-1.014 χ^2/NDF :4128583.6/24

Right Out: 4965.030+/-1.136 χ^2/NDF : 3493196.7/26

Left In: 5137.772+/-0.970 χ^2/NDF :5495609.7/22

Left: 5387.078 ± 0.701 χ^2/NDF : 9762498.7/47

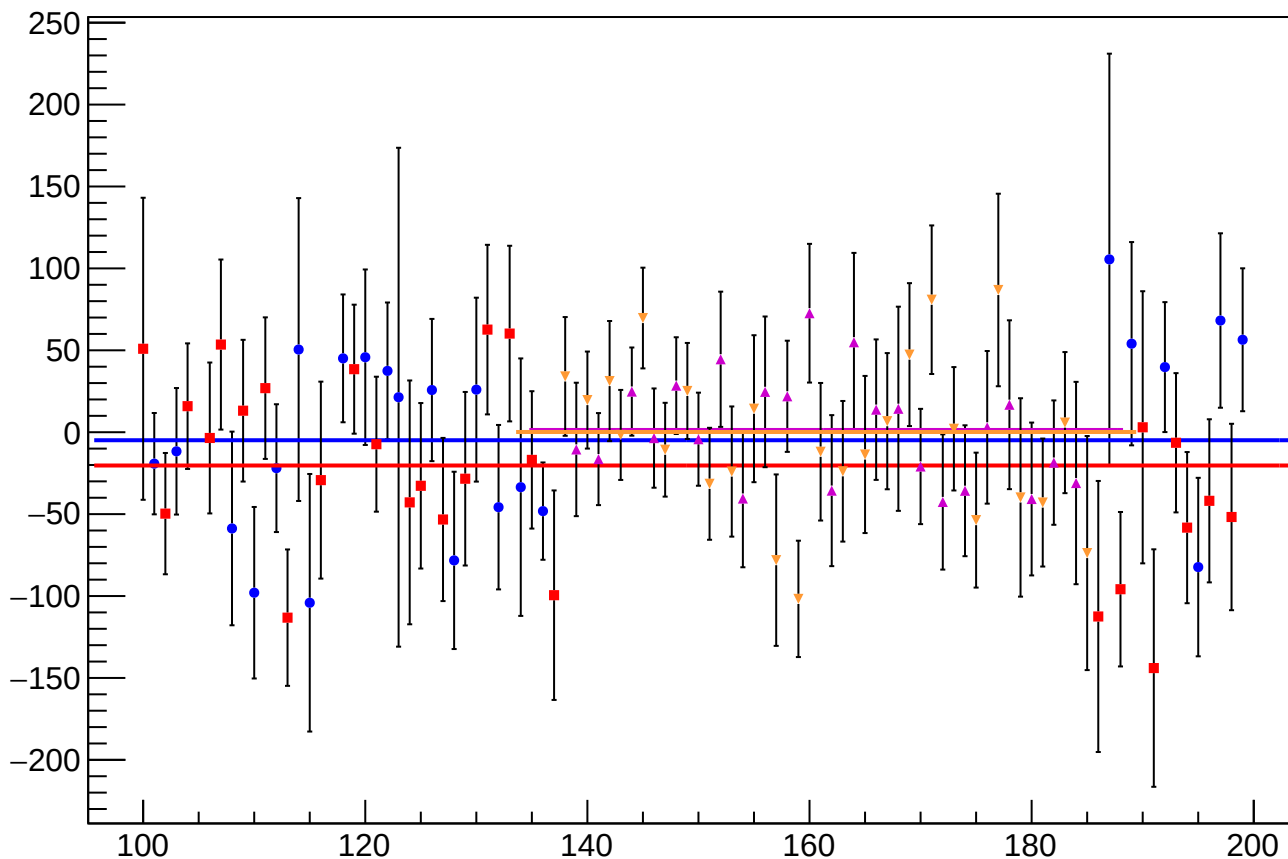
Right: 5146.316+/-0.845 χ^2/NDF : 6055791.5/49

In: 5224.103+/-0.769 χ^2/NDF :8022576.1/45

Out: 5351.570+/-0.756 χ^2/NDF :7829884.1/51

All: 5288.924+/-0.539 χ^2/NDF : 15866424.4/9

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -4.892 $\pm$ 10.009 χ^2/NDF : 24.4/22

Left Out: 0.143 $\pm$ 7.683 χ^2/NDF : 31.3/24

Right Out: -20.316 $\pm$ 9.508 χ^2/NDF : 28.4/26

Left In: 1.374 $\pm$ 7.990 χ^2/NDF : 13.3/22

Left: 0.734 $\pm$ 5.538 χ^2/NDF : 44.6/47

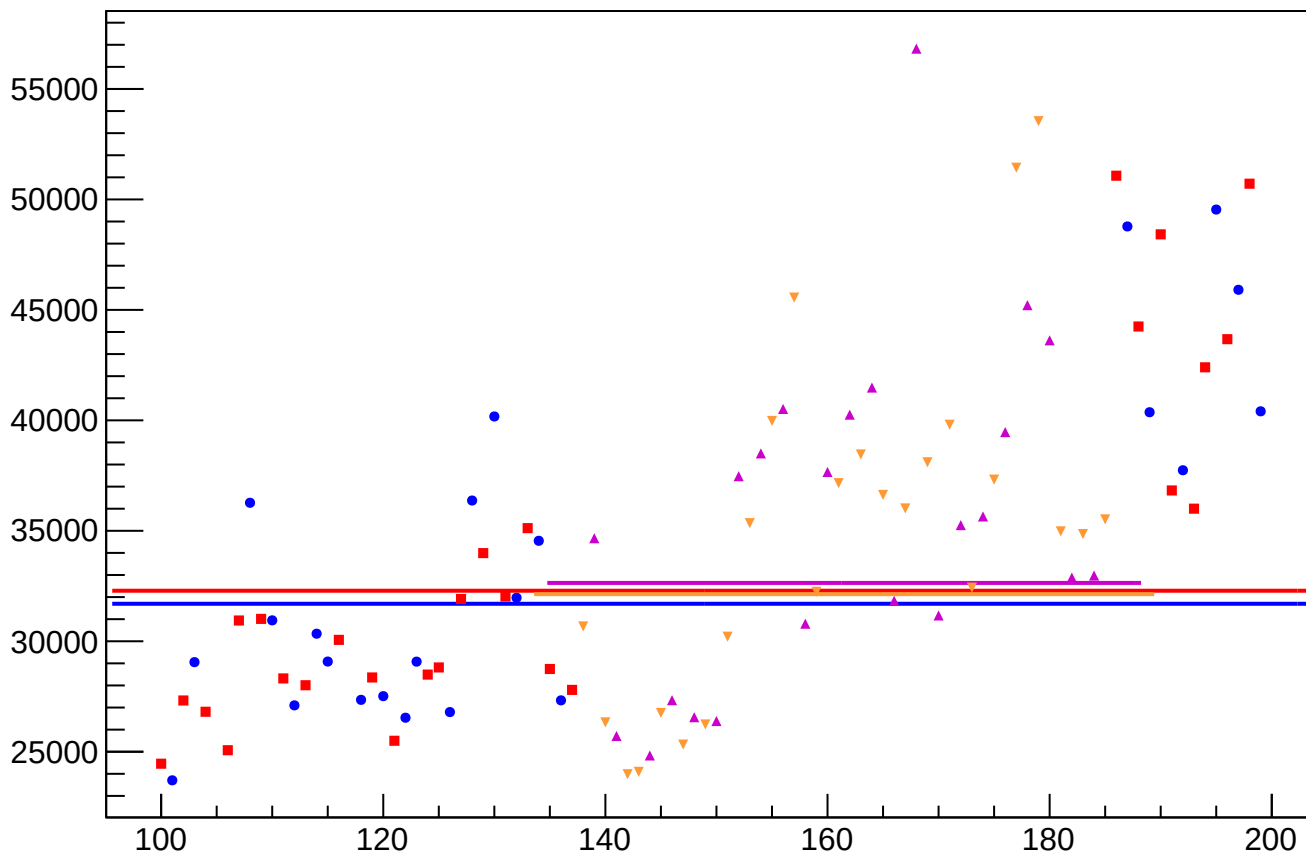
Right: -13.000 $\pm$ 6.893 χ^2/NDF : 54.0/49

In: -1.065 $\pm$ 6.245 χ^2/NDF : 37.9/45

Out: -7.940 $\pm$ 5.976 χ^2/NDF : 62.5/51

All: -4.653 $\pm$ 4.317 χ^2/NDF : 101.0/97

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: 32007.563 $\pm$ 4.874 χ^2/NDF : 1994918.8/49

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: 32193.646 $\pm$ 4.226 χ^2/NDF : 2586357.2/51

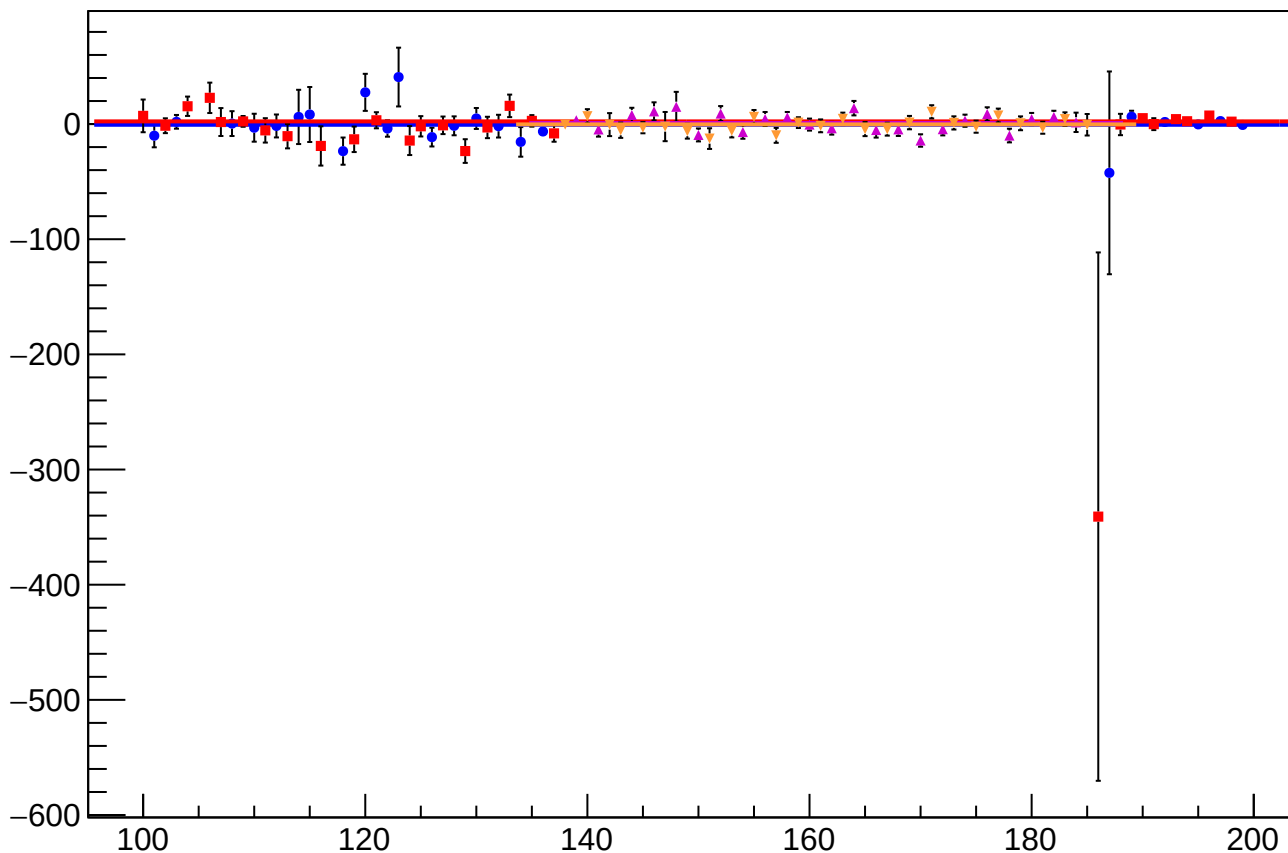
Right Out: 32287.563 $\pm$ 6.723

χ^2/NDF : 1045955.2/26

Left In: 32641.162 $\pm$ 5.650 χ^2/NDF : 1402162.4/22

All: 32231.943 $\pm$ 3.053 χ^2/NDF : 4944861.7/9

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: 2.325 ± 1.158 χ^2/NDF : 29.5/26

Left In: 0.908 ± 1.142 χ^2/NDF : 36.2/22

Left: 0.313 ± 0.818 χ^2/NDF : 54.4/47

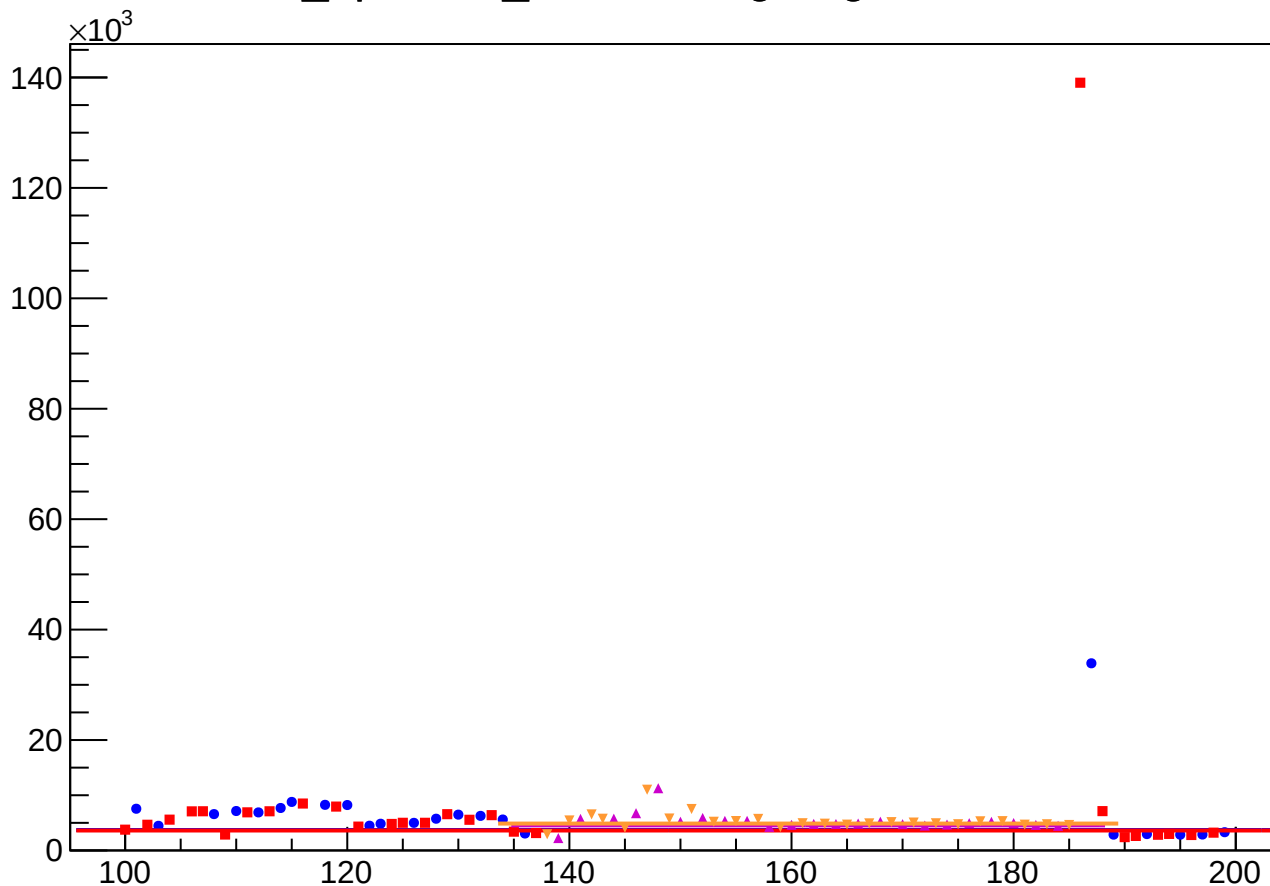
Right: 0.954 ± 0.846 χ^2/NDF : 53.6/49

In: 0.208 ± 0.840 χ^2/NDF : 58.1/45

Out: 1.021 ± 0.824 χ^2/NDF : 49.7/51

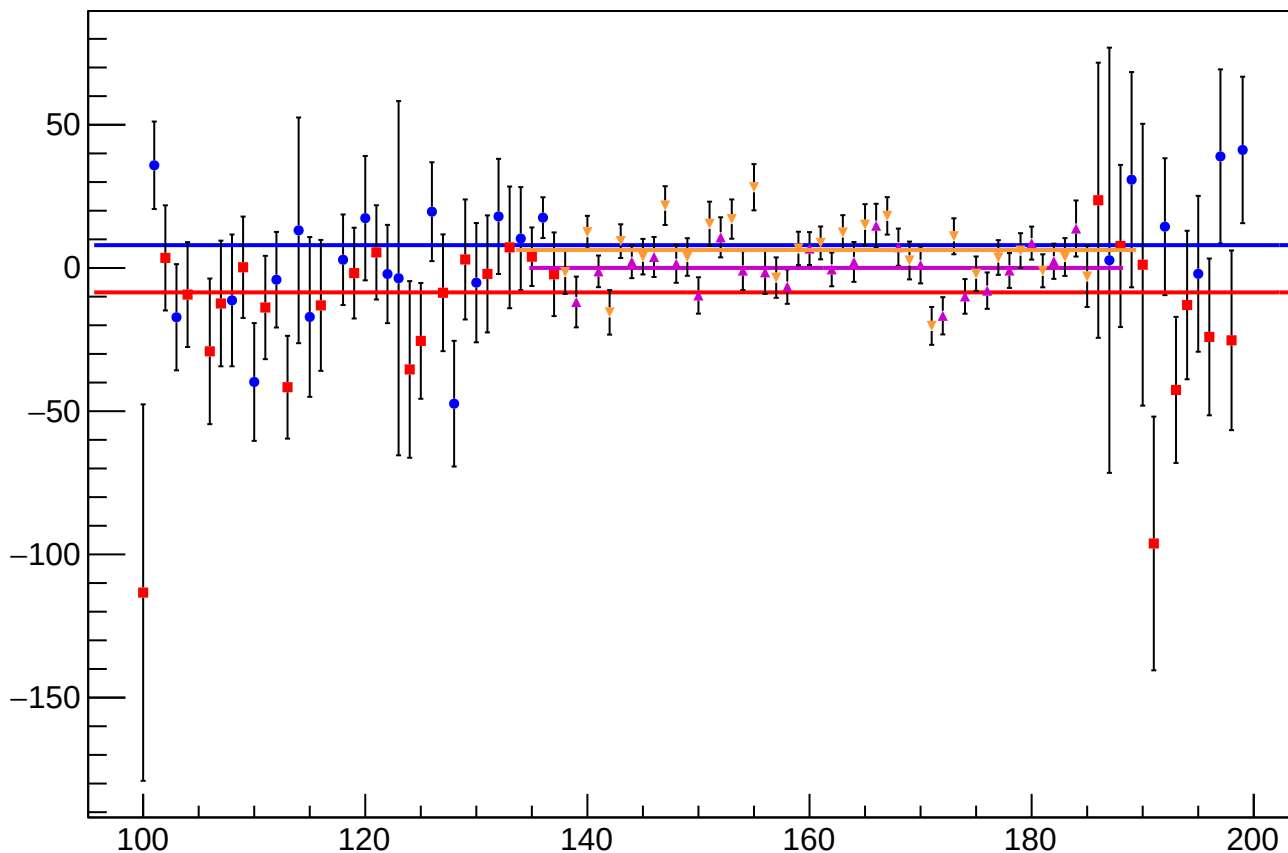
All: 0.623 ± 0.588 χ^2/NDF : 108.2/97

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: 3656.012+/-0.598	χ^2/NDF : 6299338.4/49
Right Out: 3616.557+/-0.819	χ^2/NDF : 3532778.6/26	In: 4156.850+/-0.594	χ^2/NDF : 5896799.9/45
Left In: 4544.337+/-0.808	χ^2/NDF : 2634314.4/22	Out: 4235.428+/-0.582	χ^2/NDF : 6198763.9/51
		All: 4196.891+/-0.416	χ^2/NDF : 12104488.6/95

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: -8.518 ± 3.959 χ^2/NDF : 19.6/26

Left In: 0.020 ± 1.353 χ^2/NDF : 29.9/22

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

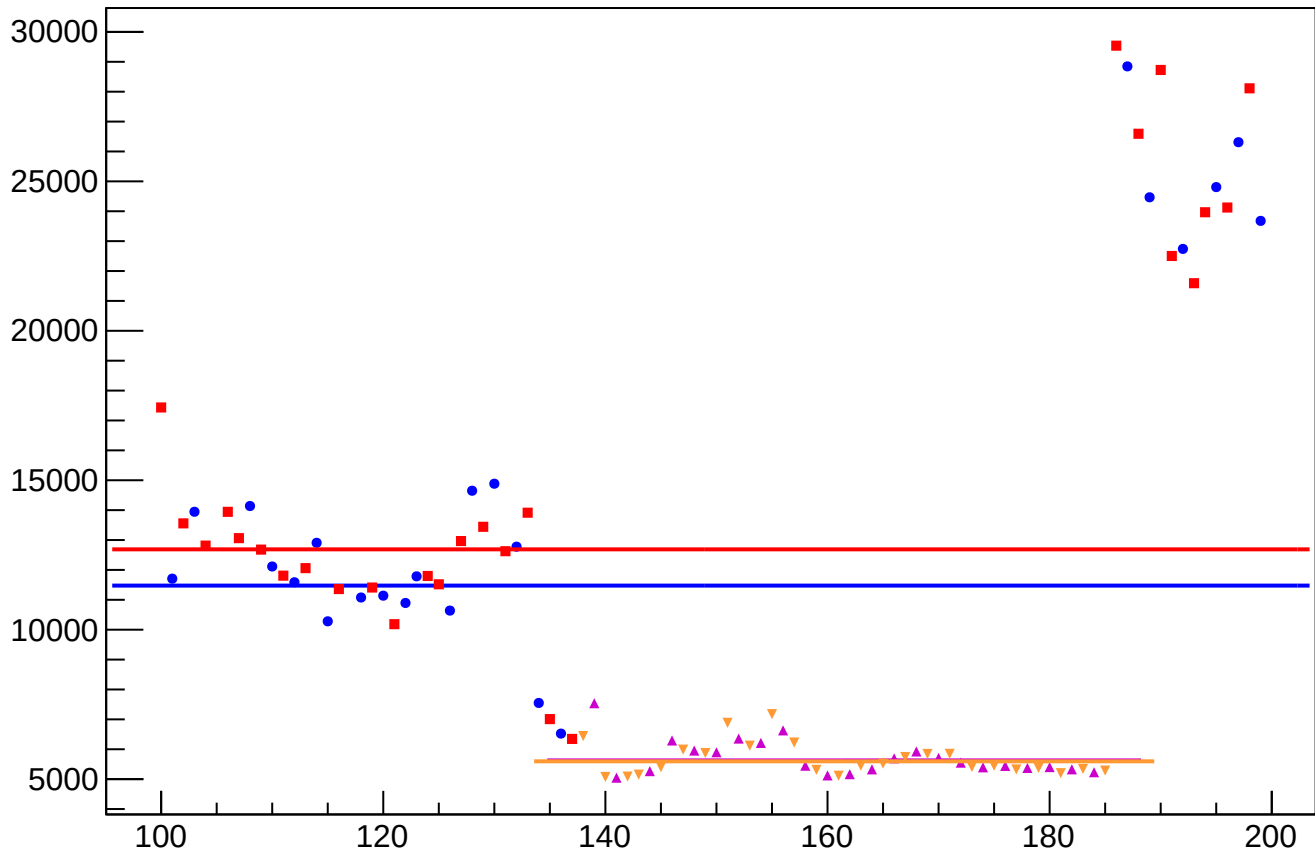
Right: -0.105 ± 2.771 χ^2/NDF : 54.3/49

In: 0.883 ± 1.278 χ^2/NDF : 59.6/45

Out: 4.833 ± 1.244 χ^2/NDF : 88.7/51

All: 2.911 ± 0.891 χ^2/NDF : 153.2/97

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: 12688.216+/-2.799 χ^2/NDF : 3600908.2/26

Left In: 5627.283+/-0.957 χ^2/NDF : 279318.7/22

Left: 5611.329+/-0.666 χ^2/NDF : 563855.6/47

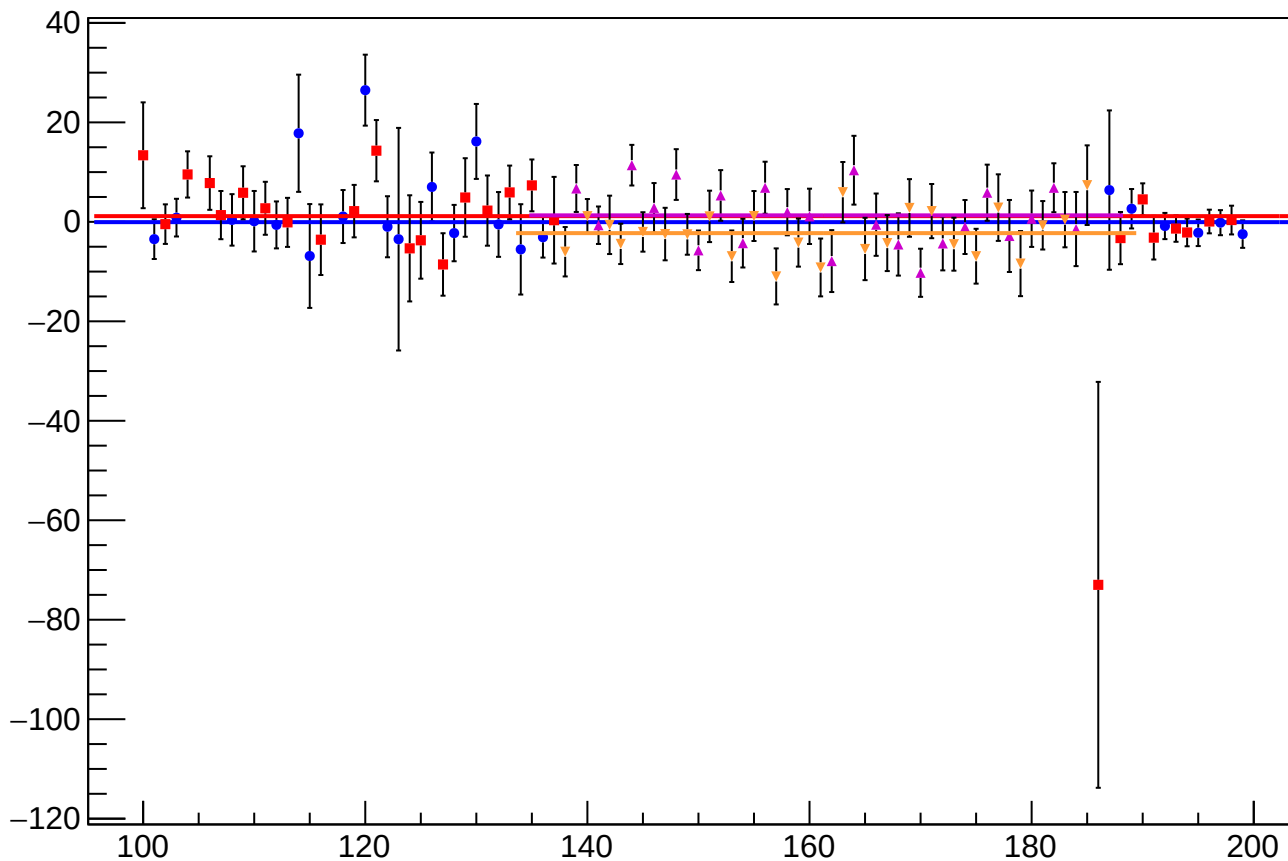
Right: 12069.577+/-1.959 χ^2/NDF : 7149787.7/49

In: 6261.385+/-0.903 χ^2/NDF : 7783329.4/45

Out: 6296.479+/-0.880 χ^2/NDF : 9669739.2/51

All: 6279.402+/-0.630 χ^2/NDF : 17453843.3/99

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: 1.148 $\pm$ 0.873 χ^2/NDF : 26.5/26

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

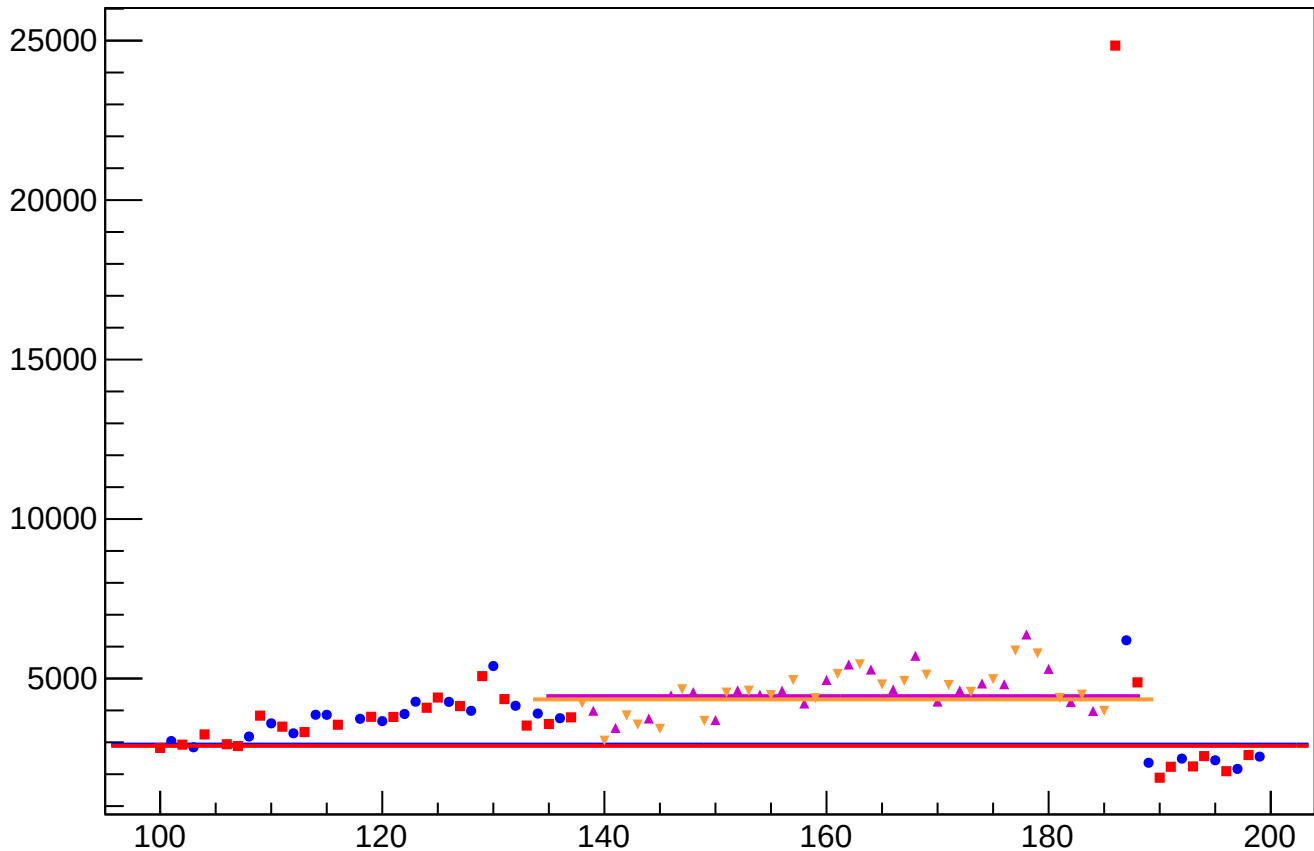
Right: 0.585 $\pm$ 0.638 χ^2/NDF : 53.7/49

In: 0.526 $\pm$ 0.706 χ^2/NDF : 58.1/45

Out: -0.280 $\pm$ 0.666 χ^2/NDF : 48.2/51

All: 0.099 $\pm$ 0.484 χ^2/NDF : 107.0/97

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: 2907.357+/-0.451

χ^2/NDF : 3428884.9/49

Right Out: 2889.016+/-0.617

χ^2/NDF : 2231610.5/26

In: 3579.748+/-0.499

χ^2/NDF : 4165489.1/45

Out: 3498.002+/-0.471

χ^2/NDF : 5561294.4/51

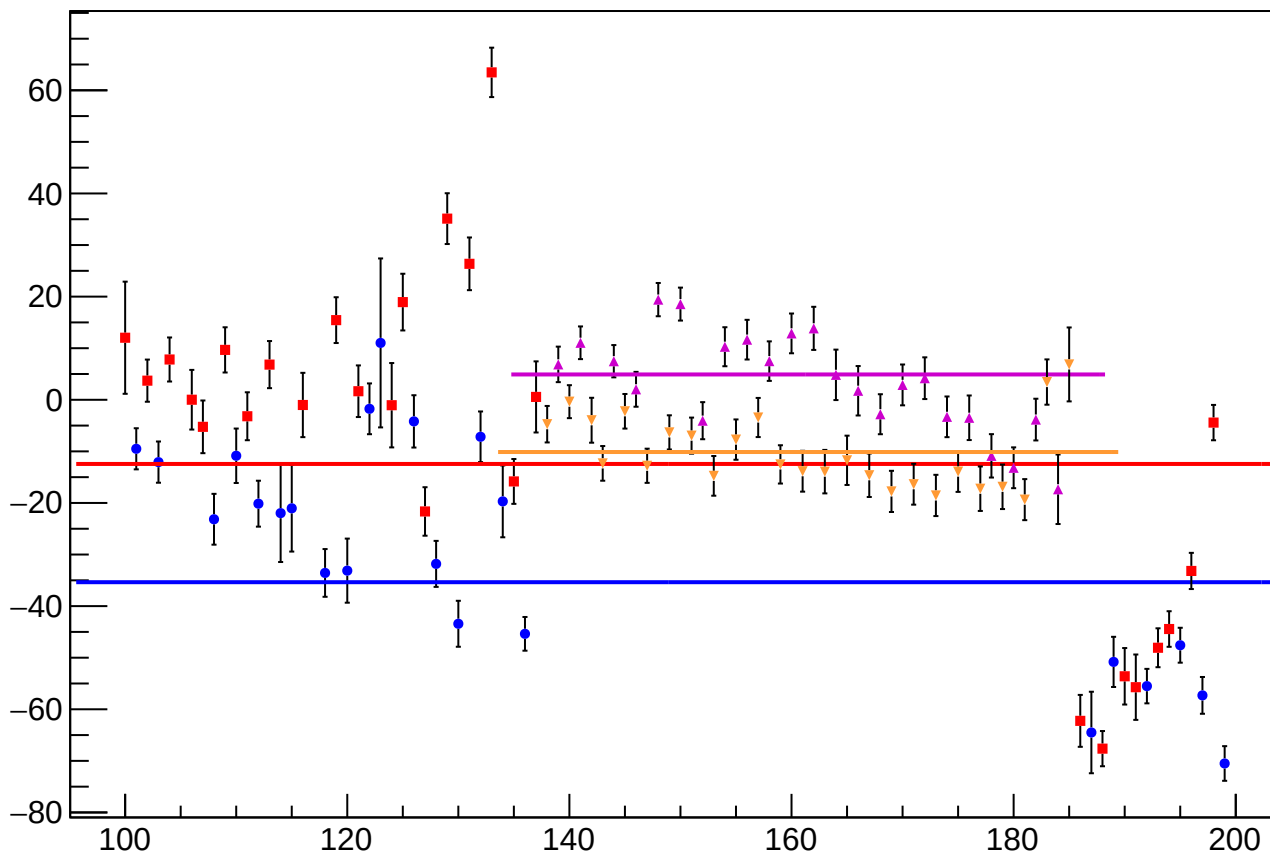
Left In: 4446.181+/-0.762

χ^2/NDF : 702797.6/22

All: 3536.498+/-0.342

χ^2/NDF : 9740986.5/97

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: -12.439±/0.895 χ^2/NDF : 1270.6/26

Left In: 4.911±/0.797 χ^2/NDF : 127.9/22

Left: -2.814±/0.556 χ^2/NDF : 378.7/47

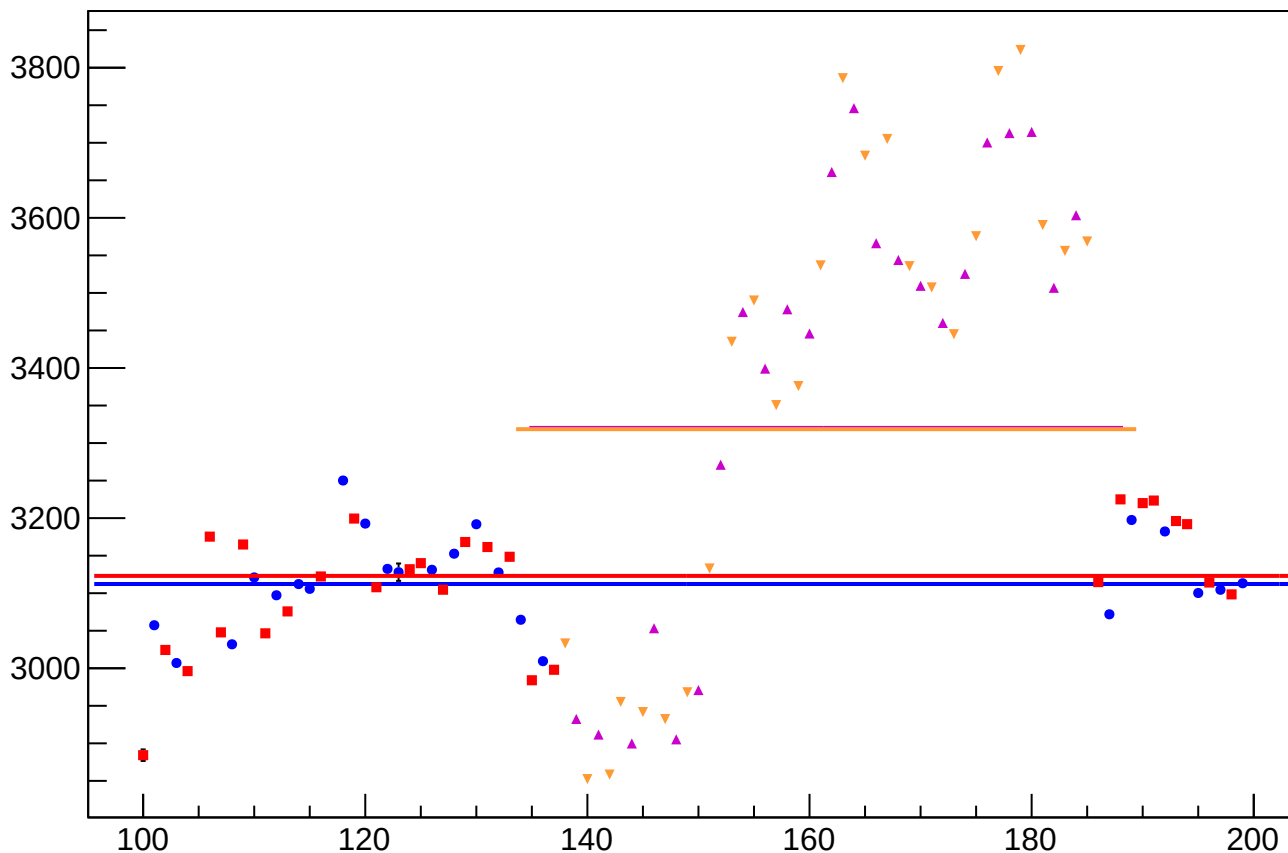
Right: -23.143±/0.653 χ^2/NDF : 2062.0/49

In: -11.604±/0.612 χ^2/NDF : 1659.6/45

Out: -11.117±/0.586 χ^2/NDF : 1342.4/51

All: -11.350±/0.423 χ^2/NDF : 3002.3/97

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: 3123.060+/-0.633 χ^2/NDF : 13719.2/26

Left In: 3320.170+/-0.564 χ^2/NDF : 287634.9/22

Left: 3319.315+/-0.393 χ^2/NDF : 625333.6/47

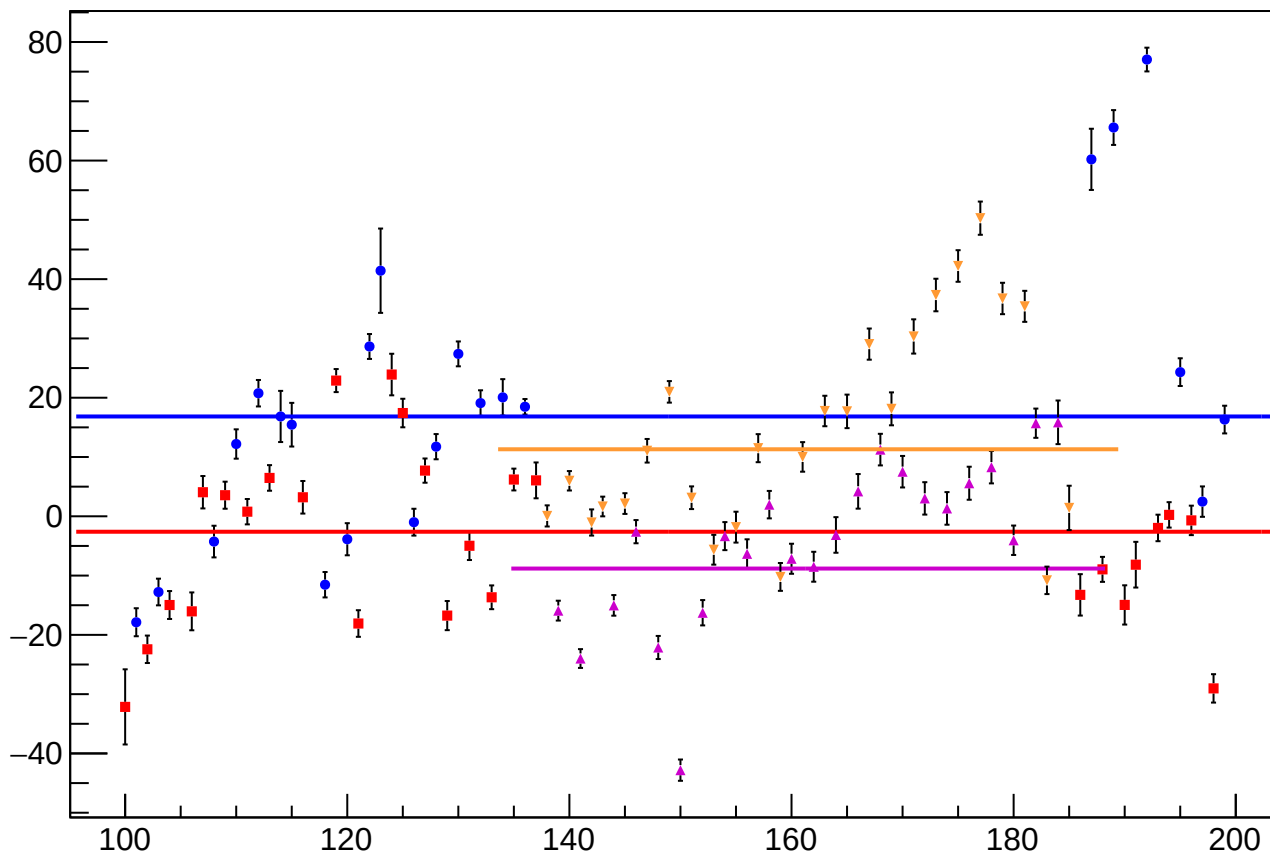
Right: 3118.010+/-0.462 χ^2/NDF : 22830.3/49

In: 3234.906+/-0.433 χ^2/NDF : 352411.5/45

Out: 3234.678+/-0.414 χ^2/NDF : 405905.3/51

All: 3234.787+/-0.299 χ^2/NDF : 758316.8/97

diff_bpm0l01Y_mean vs Slug, Sign Corrected



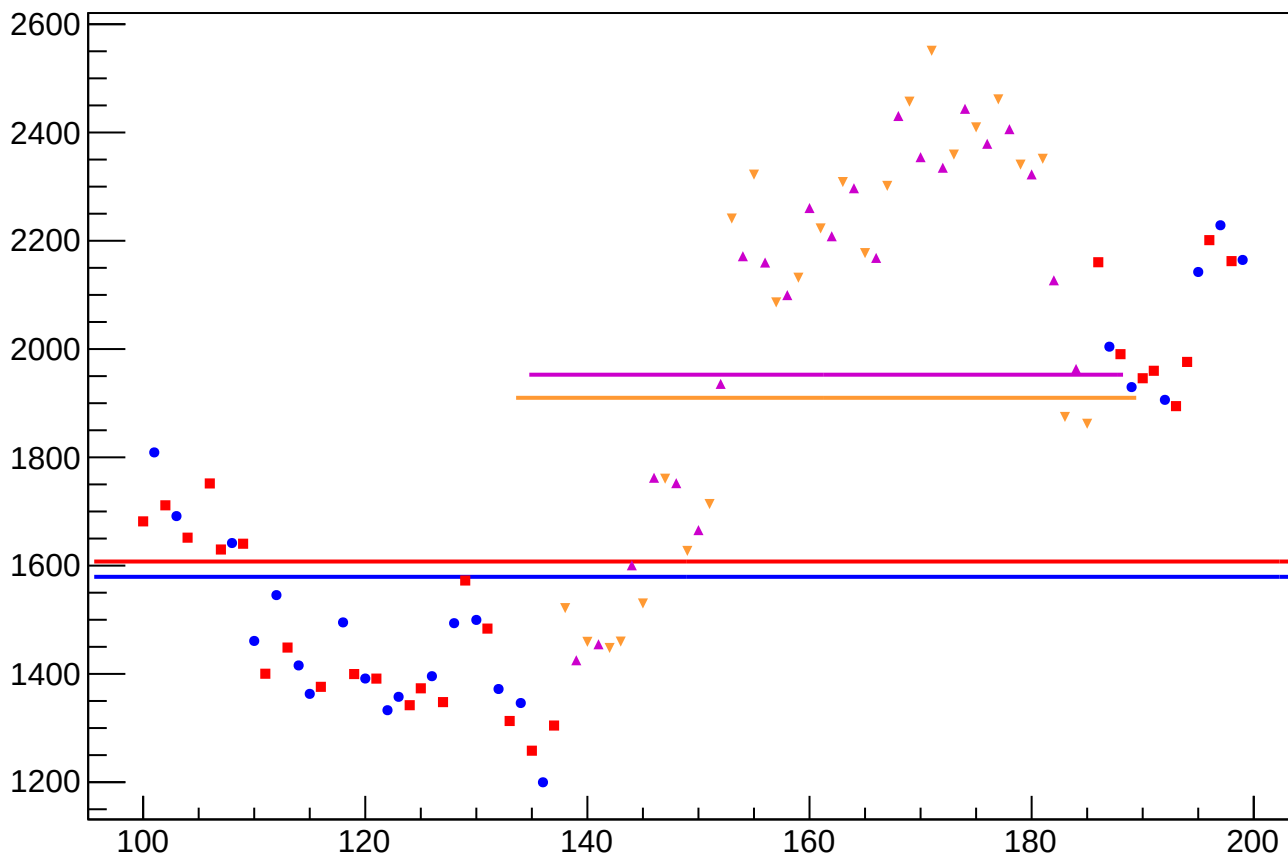
Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$
 Right: 6.586 ± 0.340 $\chi^2/\text{NDF}: 3740.5/49$

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: -2.605 ± 0.469 $\chi^2/\text{NDF}: 803.8/26$
 Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

In: 3.489 ± 0.343 $\chi^2/\text{NDF}: 4462.6/45$
 Out: 4.575 ± 0.326 $\chi^2/\text{NDF}: 2402.5/51$

All: 4.060 ± 0.236 $\chi^2/\text{NDF}: 6870.4/97$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1579.304+/-0.350 χ^2/NDF : 764684.7/22

Left Out: 1909.963+/-0.321 χ^2/NDF :1399467.7/24

Right Out: 1607.574+/-0.331 χ^2/NDF : 766106.5/26

Left In: 1952.637+/-0.336 χ^2/NDF :1065333.8/22

Left: 1930.313+/-0.232 χ^2/NDF : 2473233.3/47

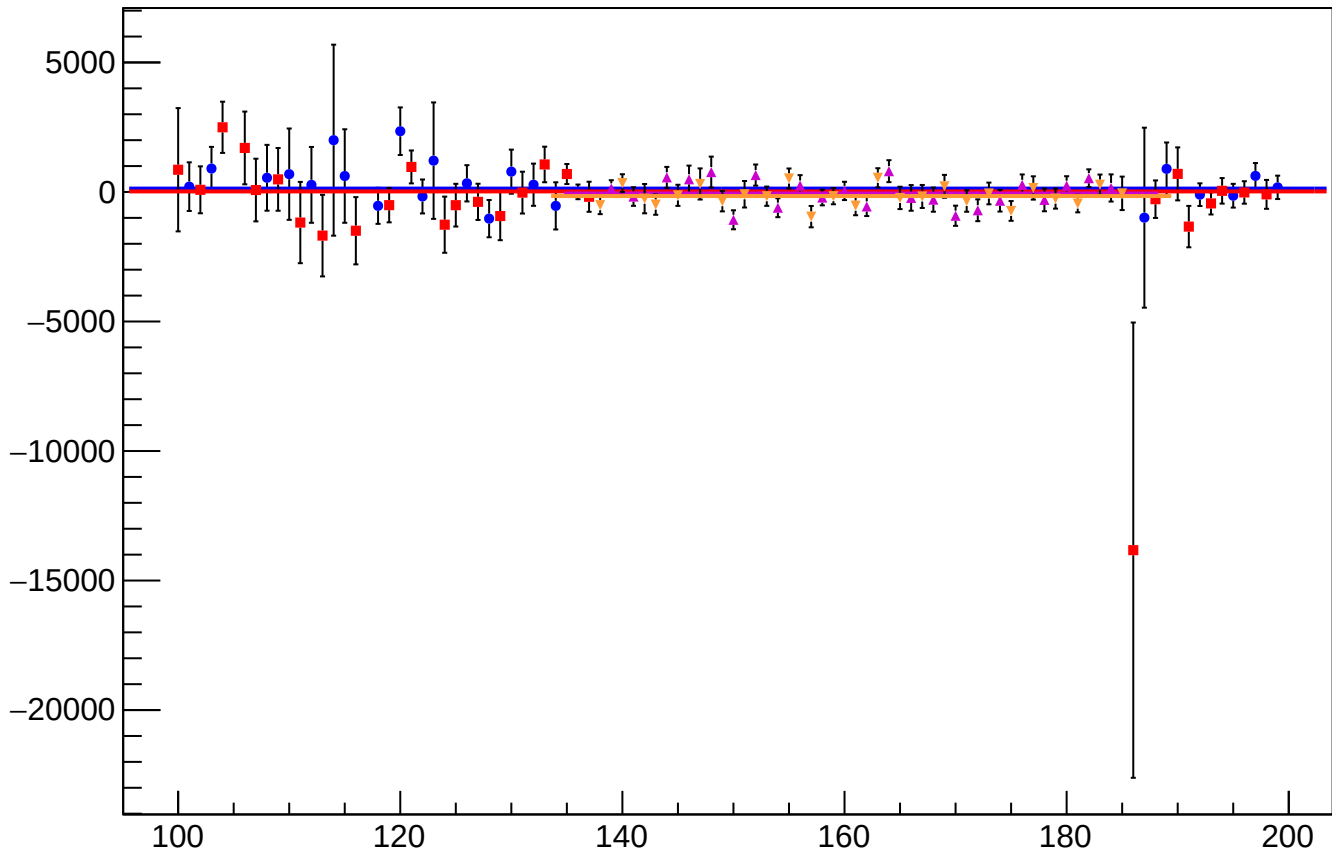
Right: 1594.210+/-0.241 χ^2/NDF : 1534229.2/49

In: 1773.562+/-0.242 χ^2/NDF :2421718.9/45

Out: 1763.664+/-0.231 χ^2/NDF :2595123.6/51

All: 1768.365+/-0.167 χ^2/NDF : 5017717.6/97

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: 21.496+/-138.896 χ^2/NDF : 29.8/26

Left In: -58.934+/-82.584 χ^2/NDF :38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

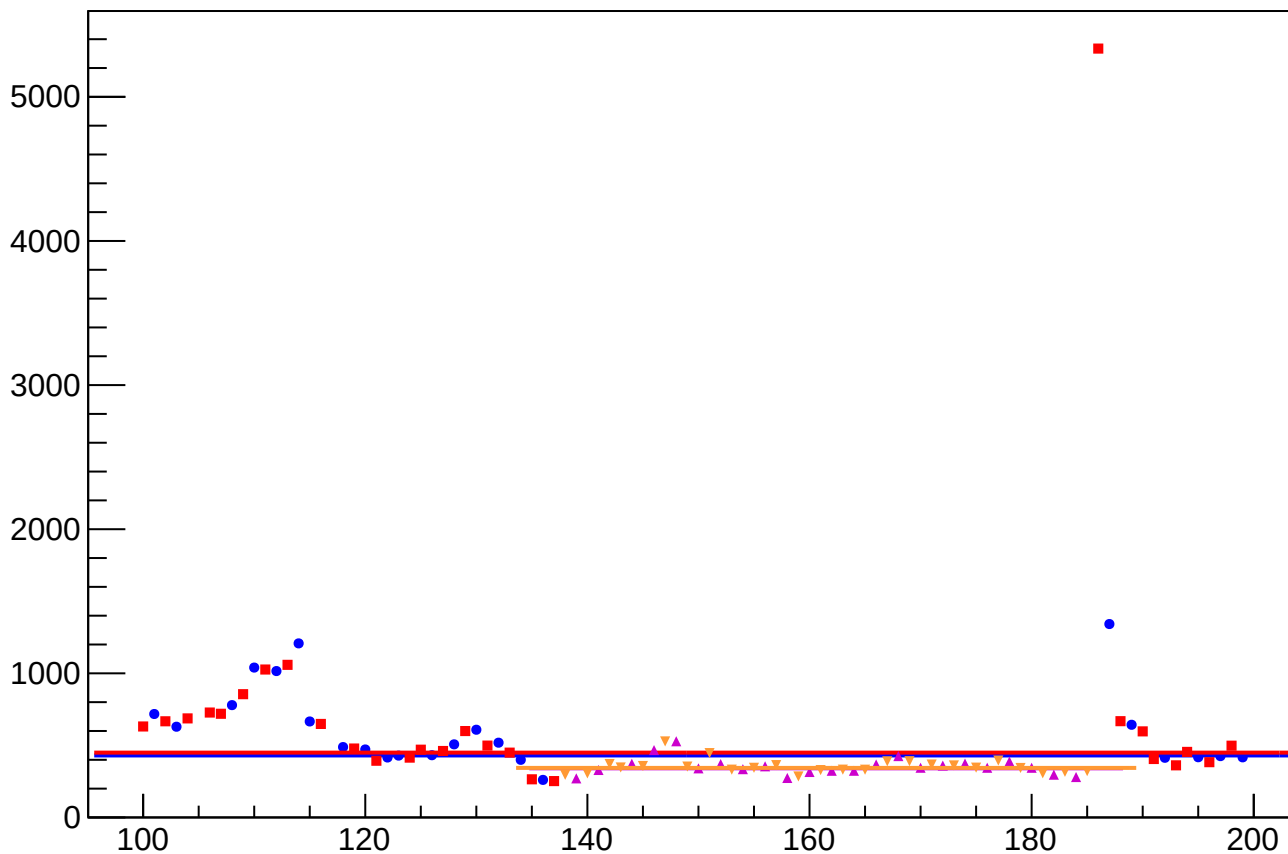
Right: 75.333+/-98.766 χ^2/NDF : 45.0/49

In: -10.301+/-71.192 χ^2/NDF :54.8/45

Out: -112.053+/-69.839 χ^2/NDF :53.1/51

All: -62.153+/-49.855 χ^2/NDF : 108.9/97

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: 449.868+/-0.098 χ^2/NDF : 3027181.2/26

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

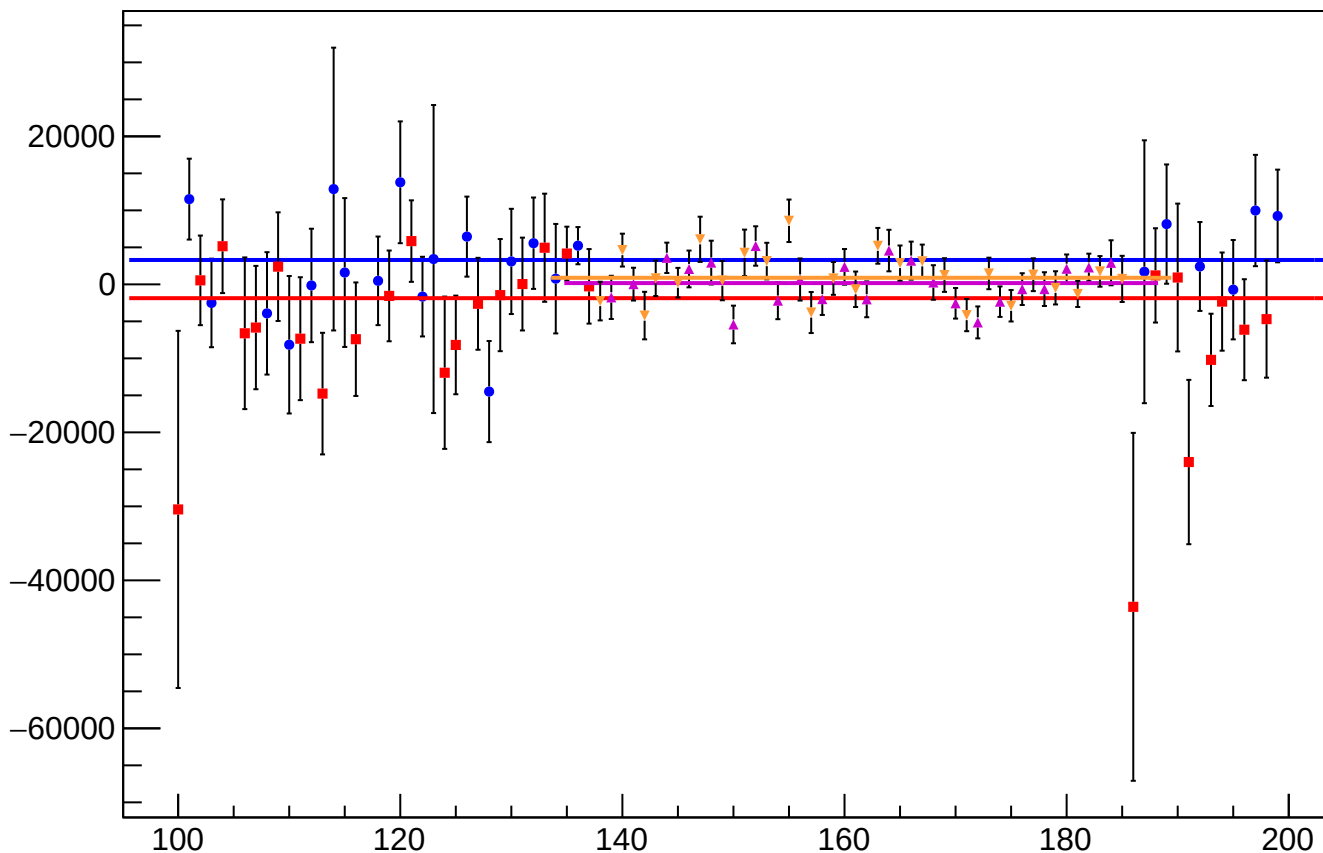
Right: 440.147+/-0.070 χ^2/NDF : 5285635.3/49

In: 363.822+/-0.050 χ^2/NDF : 3564376.8/45

Out: 370.622+/-0.049 χ^2/NDF : 4437952.8/51

All: 367.287+/-0.035 χ^2/NDF : 8011627.9/97

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3295.215 $\pm$ 1305.481 χ^2 /NDF: 19.1/22

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF: 38.0/24

Right Out: -1865.826 $\pm$ 1327.397 χ^2 /NDF: 24.4/26

Left In: 172.391 $\pm$ 488.067 χ^2 /NDF: 33.2/22

Left: 542.448 $\pm$ 339.760 χ^2 /NDF: 72.3/47

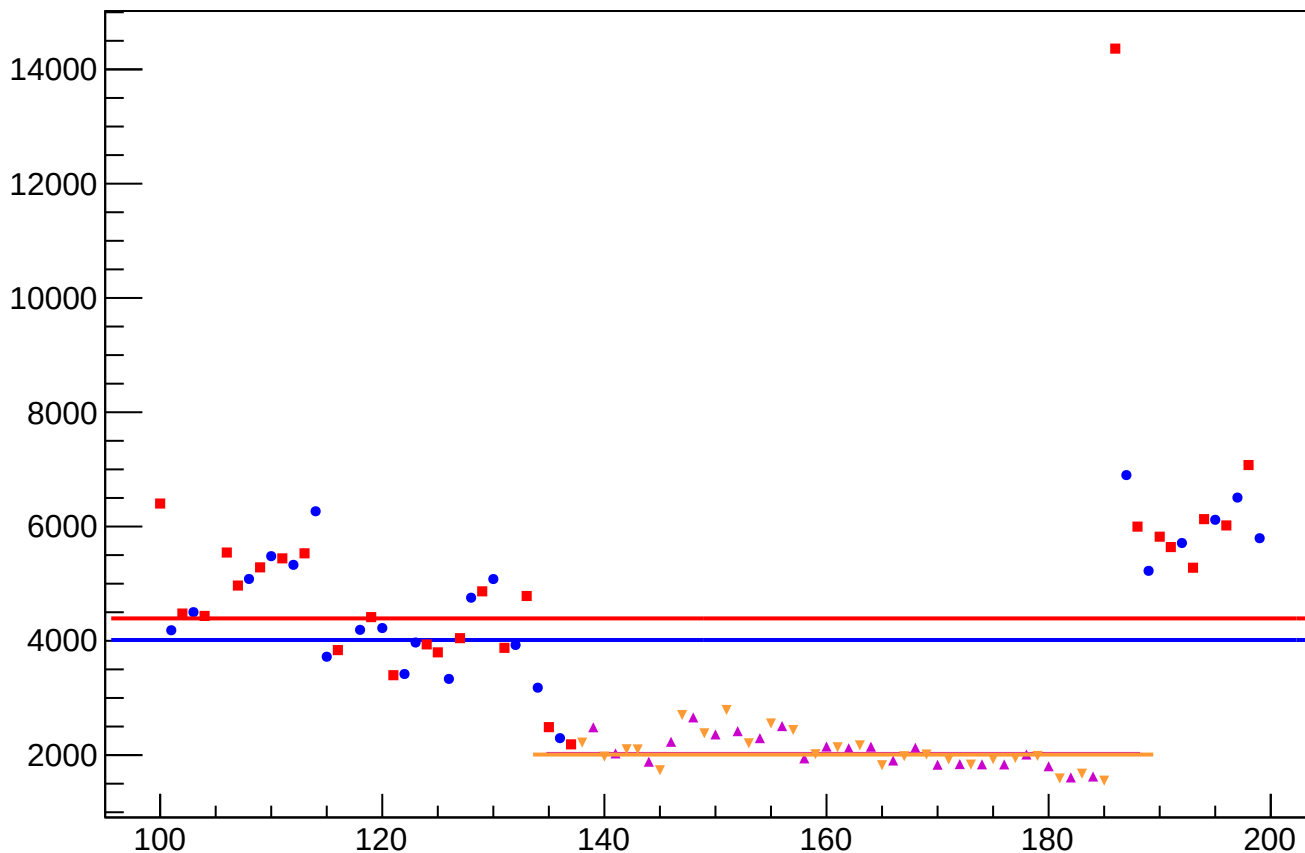
Right: 757.652 $\pm$ 930.766 χ^2 /NDF: 51.1/49

In: 555.346 $\pm$ 457.163 χ^2 /NDF: 57.3/45

Out: 579.548 $\pm$ 445.777 χ^2 /NDF: 66.2/51

All: 567.752 $\pm$ 319.161 χ^2 /NDF: 123.5/97

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4014.284+/-0.923 χ^2/NDF : 2110765.8/22

Left Out: 2009.631+/-0.335 χ^2/NDF : 709977.6/24

Right Out: 4392.133+/-0.939 χ^2/NDF : 2285232.5/26

Left In: 2020.365+/-0.345 χ^2/NDF : 573483.0/22

Left: 2014.833+/-0.240 χ^2/NDF : 1283959.2/47

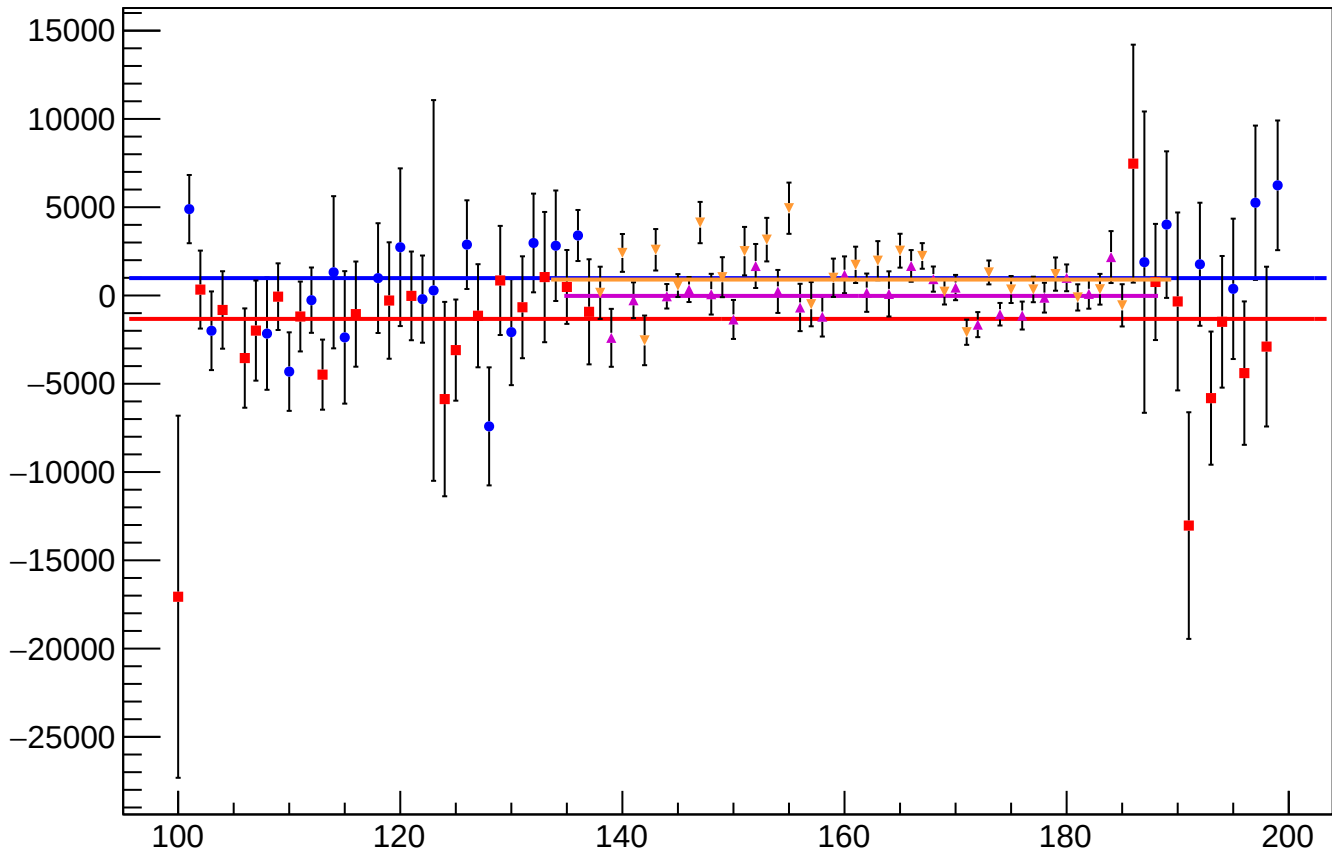
Right: 4200.063+/-0.658 χ^2/NDF : 4478375.2/49

In: 2264.882+/-0.323 χ^2/NDF : 6777666.1/45

Out: 2278.330+/-0.315 χ^2/NDF : 8711654.6/51

All: 2271.776+/-0.226 χ^2/NDF : 15490207.9/99

asym_sam3_mean vs Slug, Sign Corrected



Right In: 984.098 $\pm$ 584.768 χ^2 /NDF: 29.4/22

Left Out: 902.091 $\pm$ 185.850 χ^2 /NDF:63.5/24

Right Out: -1326.137 $\pm$ 561.856 χ^2 /NDF: 17.4/26

Left In: -23.529 $\pm$ 188.137 χ^2 /NDF:28.2/22

Left: 444.940 $\pm$ 132.217 χ^2 /NDF: 104.0/47

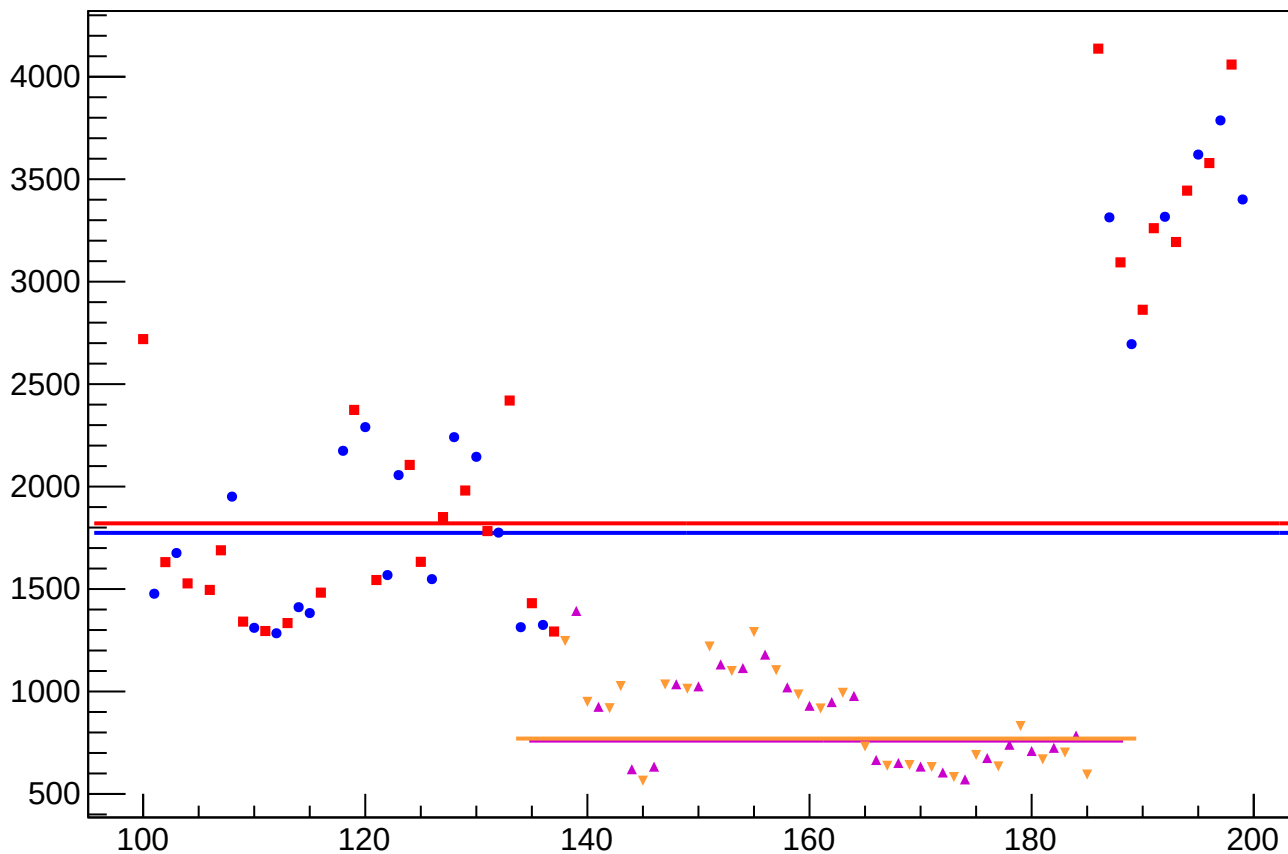
Right: -217.163 $\pm$ 405.150 χ^2 /NDF: 54.8/49

In: 70.986 $\pm$ 179.096 χ^2 /NDF:60.3/45

Out: 682.335 $\pm$ 176.448 χ^2 /NDF:95.1/51

All: 381.214 $\pm$ 125.693 χ^2 /NDF: 161.3/97

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1774.078 $\pm$ 0.413 χ^2 /NDF: 2520952.9/22

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF: 2287655.1/24

Right Out: 1820.542 $\pm$ 0.397 χ^2 /NDF: 3029739.0/26

Left In: 760.352 $\pm$ 0.133 χ^2 /NDF: 1986749.8/22

Left: 765.397 $\pm$ 0.093 χ^2 /NDF: 4277246.5/47

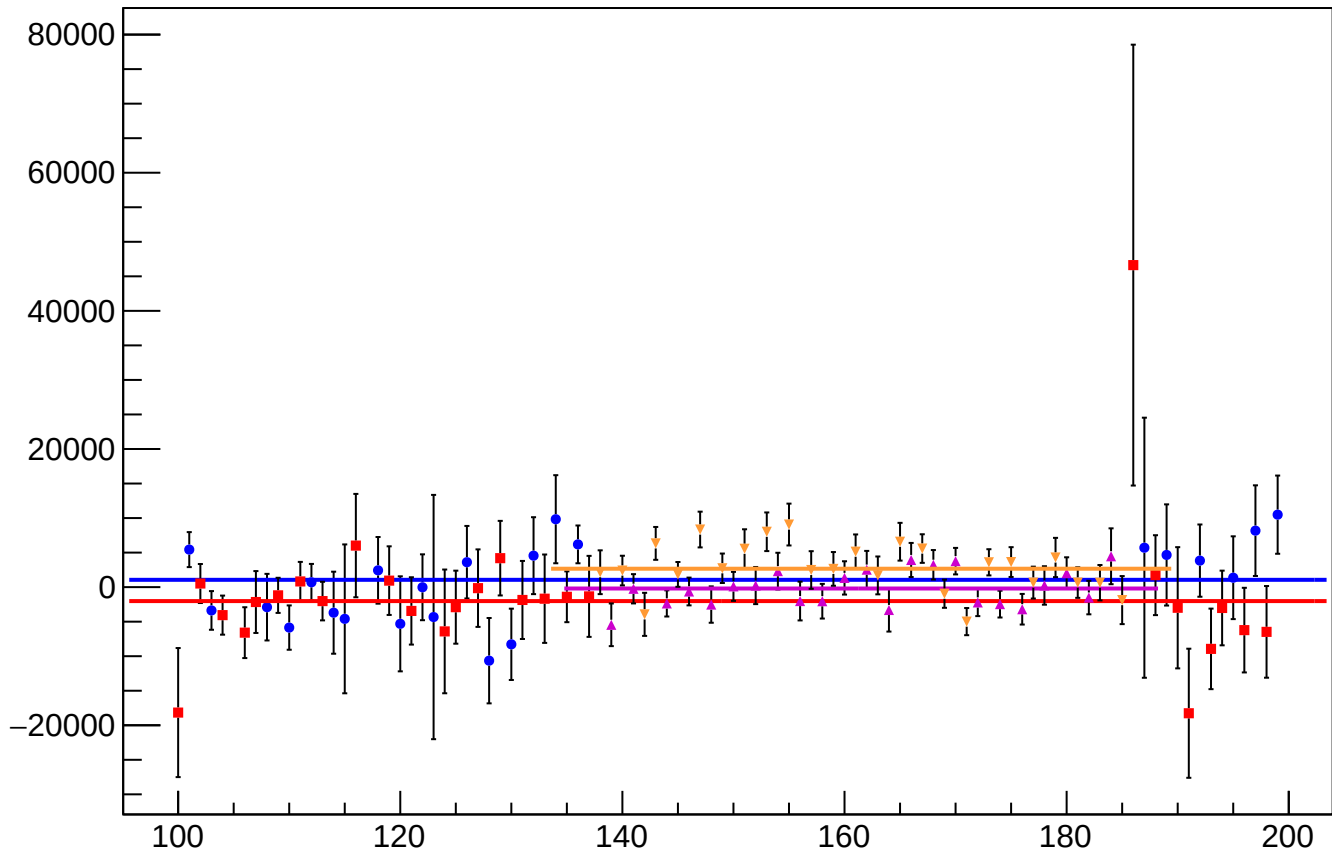
Right: 1798.238 $\pm$ 0.286 χ^2 /NDF: 5557257.8/49

In: 855.439 $\pm$ 0.127 χ^2 /NDF: 9954330.2/45

Out: 873.897 $\pm$ 0.125 χ^2 /NDF: 11616049.6/51

All: 864.806 $\pm$ 0.089 χ^2 /NDF: 21581159.0/97

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1058.560+/-934.865 χ^2/NDF : 30.3/22

Left Out: 2665.587+/-479.773 χ^2/NDF : 49.2/24

Right Out: -2020.595+/-865.465 χ^2/NDF : 18.5/26

Left In: -199.371+/-492.082 χ^2/NDF : 25.8/22

Left: 1269.388+/-343.520 χ^2/NDF : 92.4/47

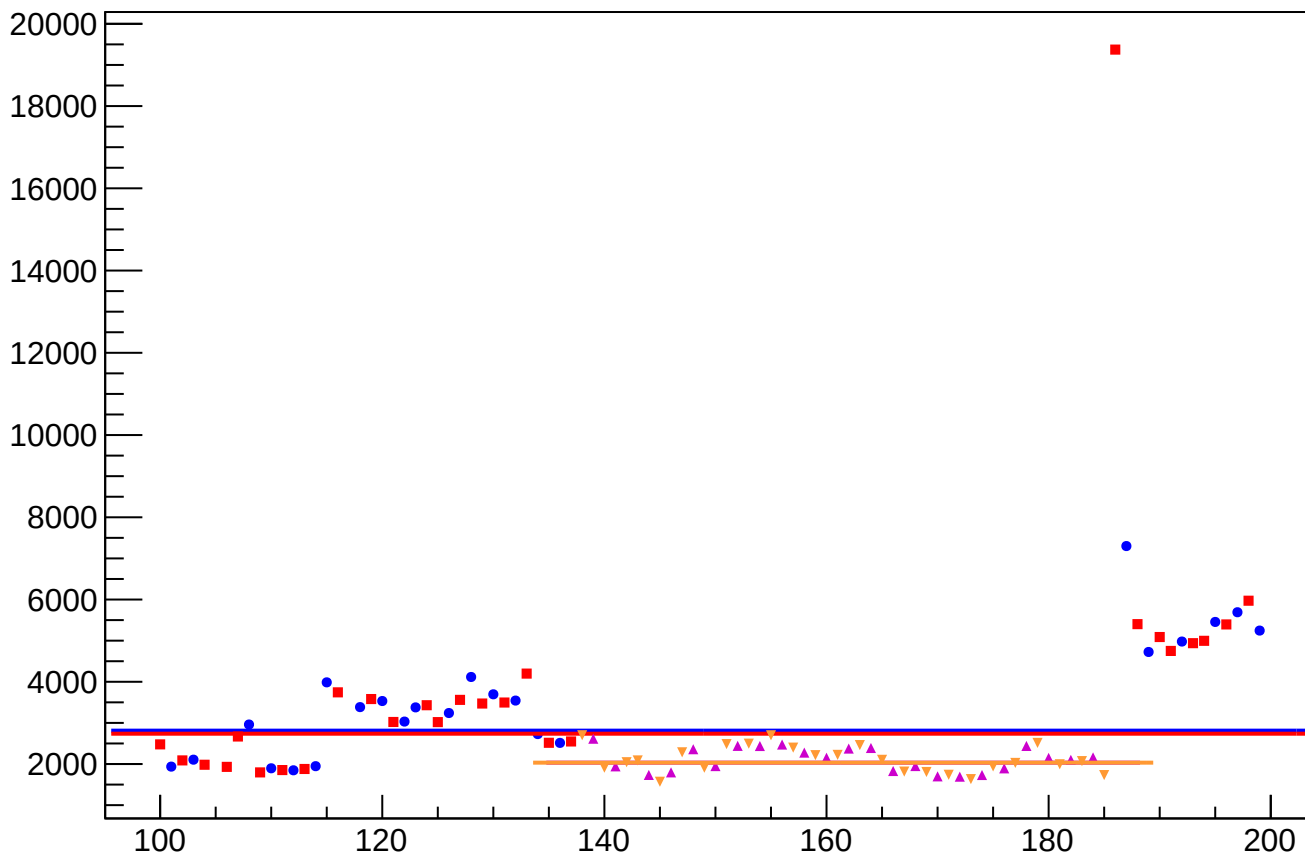
Right: -599.538+/-635.095 χ^2/NDF : 54.6/49

In: 73.541+/-435.443 χ^2/NDF : 57.5/45

Out: 1564.011+/-419.611 χ^2/NDF : 90.1/51

All: 846.364+/-302.152 χ^2/NDF : 153.7/97

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: 2737.364+/-0.612 χ^2/NDF : 4041302.6/26

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

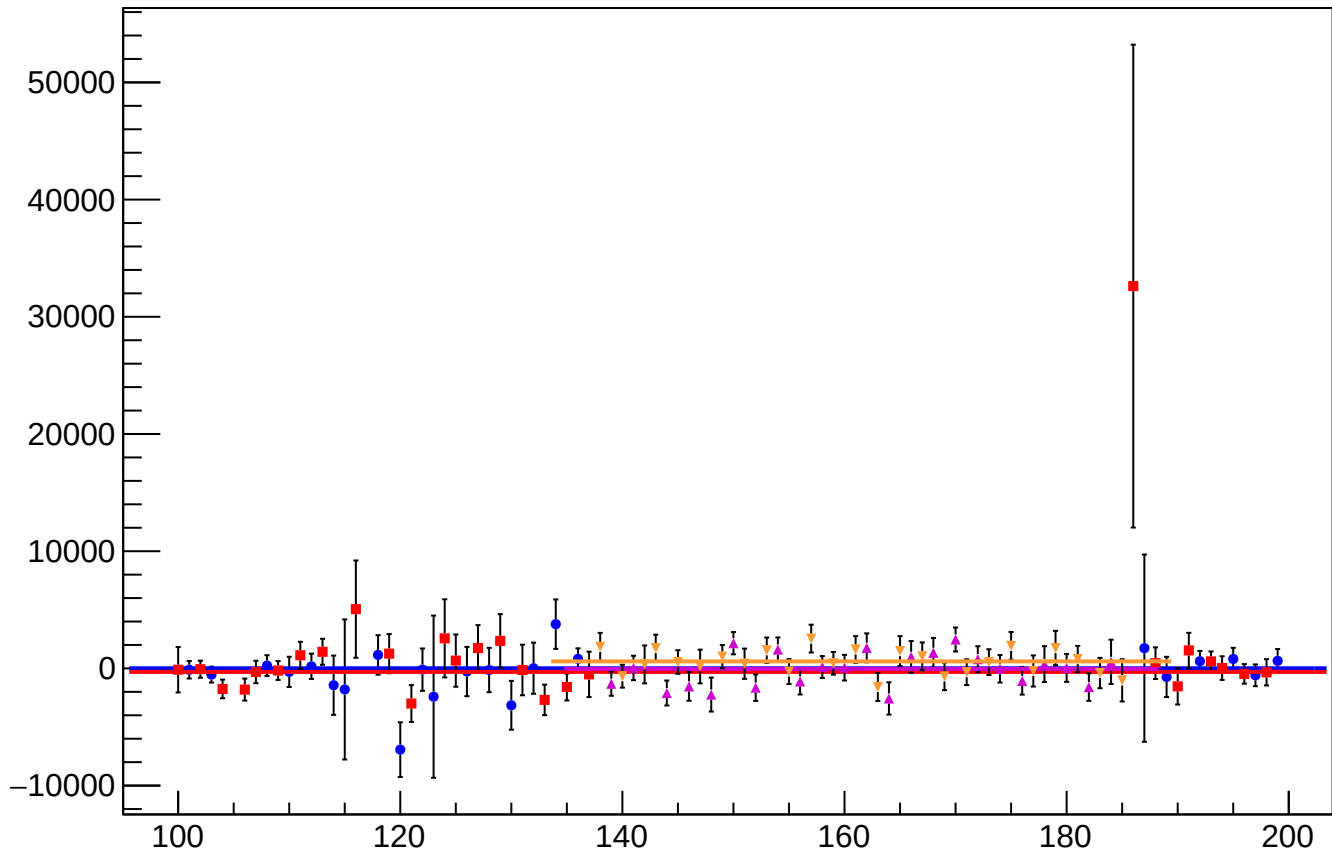
Right: 2771.724+/-0.449 χ^2/NDF : 6920997.5/49

In: 2201.696+/-0.308 χ^2/NDF : 4613495.0/45

Out: 2198.832+/-0.297 χ^2/NDF : 5877718.4/51

All: 2200.211+/-0.214 χ^2/NDF : 10491258.3/95

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: -296.004 ± 232.635 χ^2/NDF : 29.7/26

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

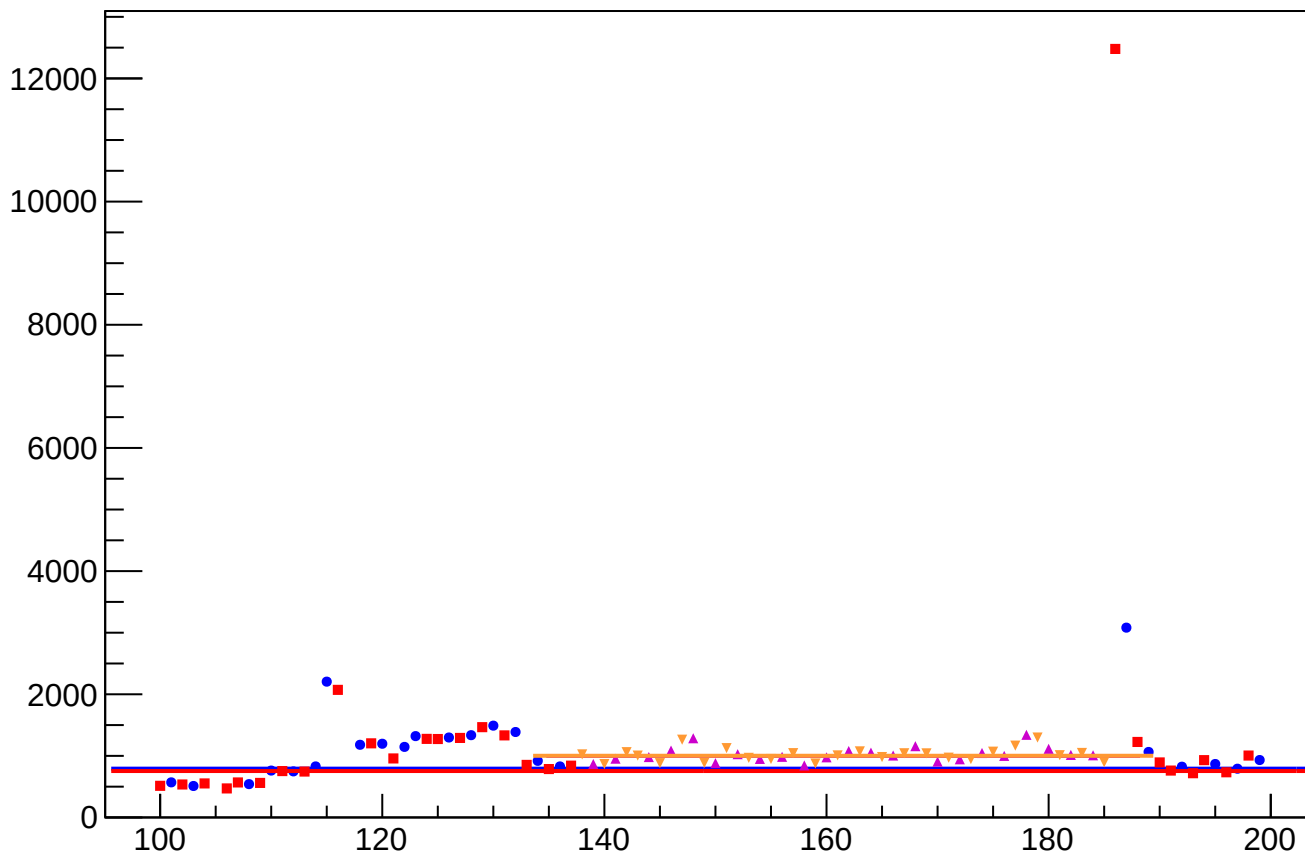
Right: -158.660 ± 172.686 χ^2/NDF : 49.6/49

In: -17.576 ± 175.951 χ^2/NDF : 55.6/45

Out: 147.531 ± 165.316 χ^2/NDF : 55.5/51

All: 70.117 ± 120.480 χ^2/NDF : 111.5/97

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: 753.769+/-0.164 χ^2/NDF : 2832100.5/26

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

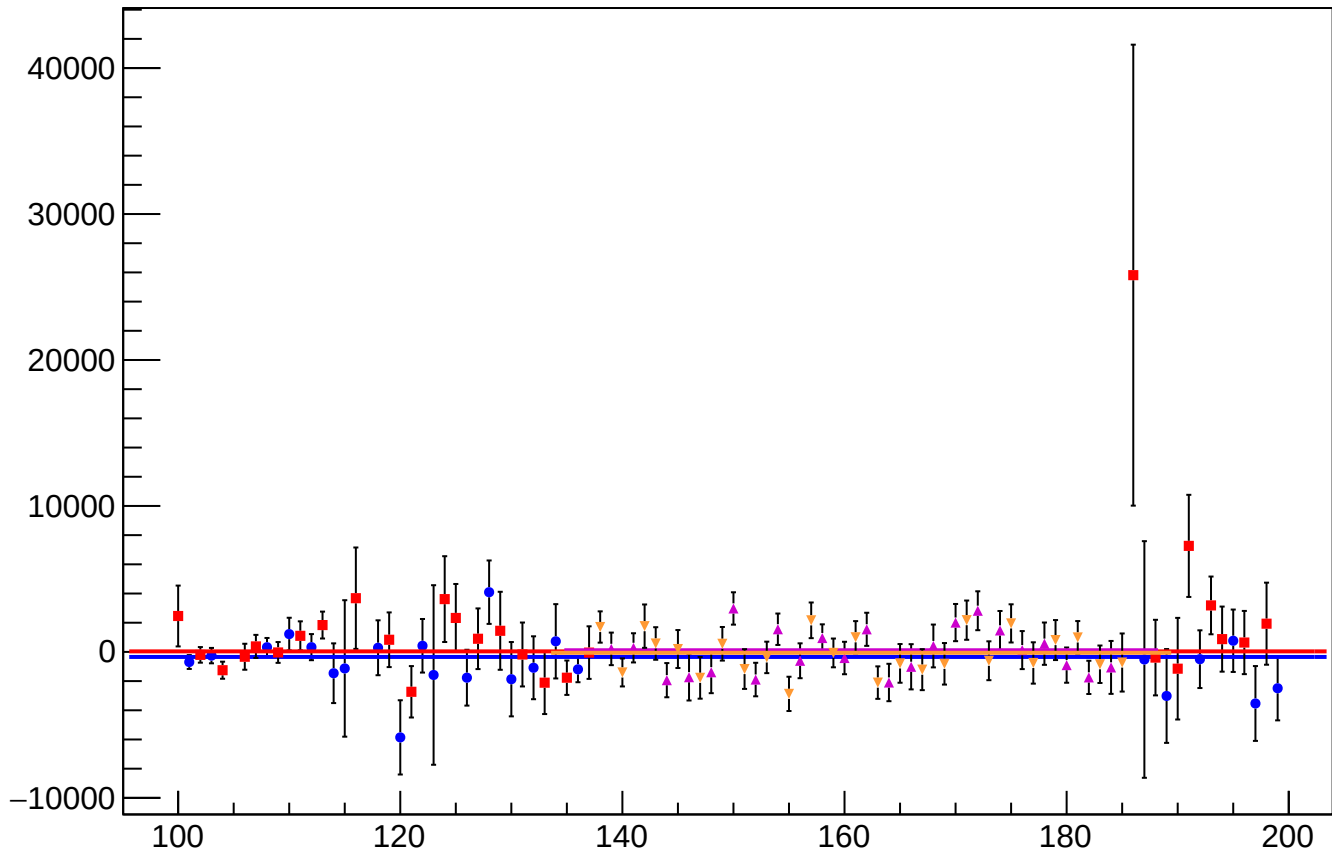
Right: 771.145+/-0.122 χ^2/NDF : 4843543.0/49

In: 902.224+/-0.124 χ^2/NDF : 3070697.1/45

Out: 876.385+/-0.117 χ^2/NDF : 4324819.2/51

All: 888.500+/-0.085 χ^2/NDF : 7418425.9/97

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: 36.139 ± 238.296 χ^2/NDF : 32.1/26

Left In: 112.398 ± 255.409 χ^2/NDF : 34.9/22

Left: 23.230 ± 177.369 χ^2/NDF : 66.1/47

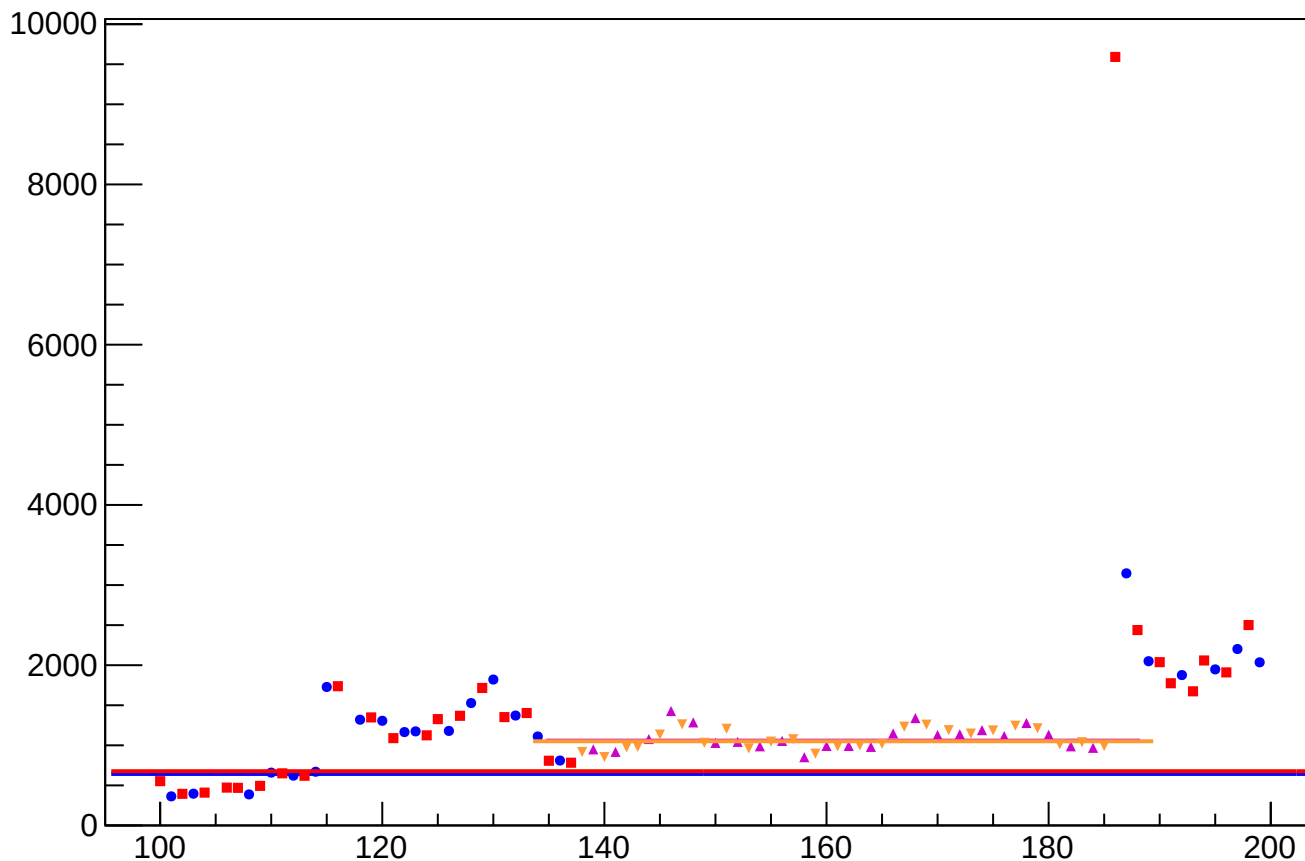
Right: -150.319 ± 170.329 χ^2/NDF : 52.6/49

In: -127.213 ± 176.261 χ^2/NDF : 55.9/45

Out: -10.220 ± 171.329 χ^2/NDF : 63.1/51

All: -67.057 ± 122.854 χ^2/NDF : 119.2/97

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: 676.930 $\pm$ 0.169 χ^2 /NDF: 7929892.9/26

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

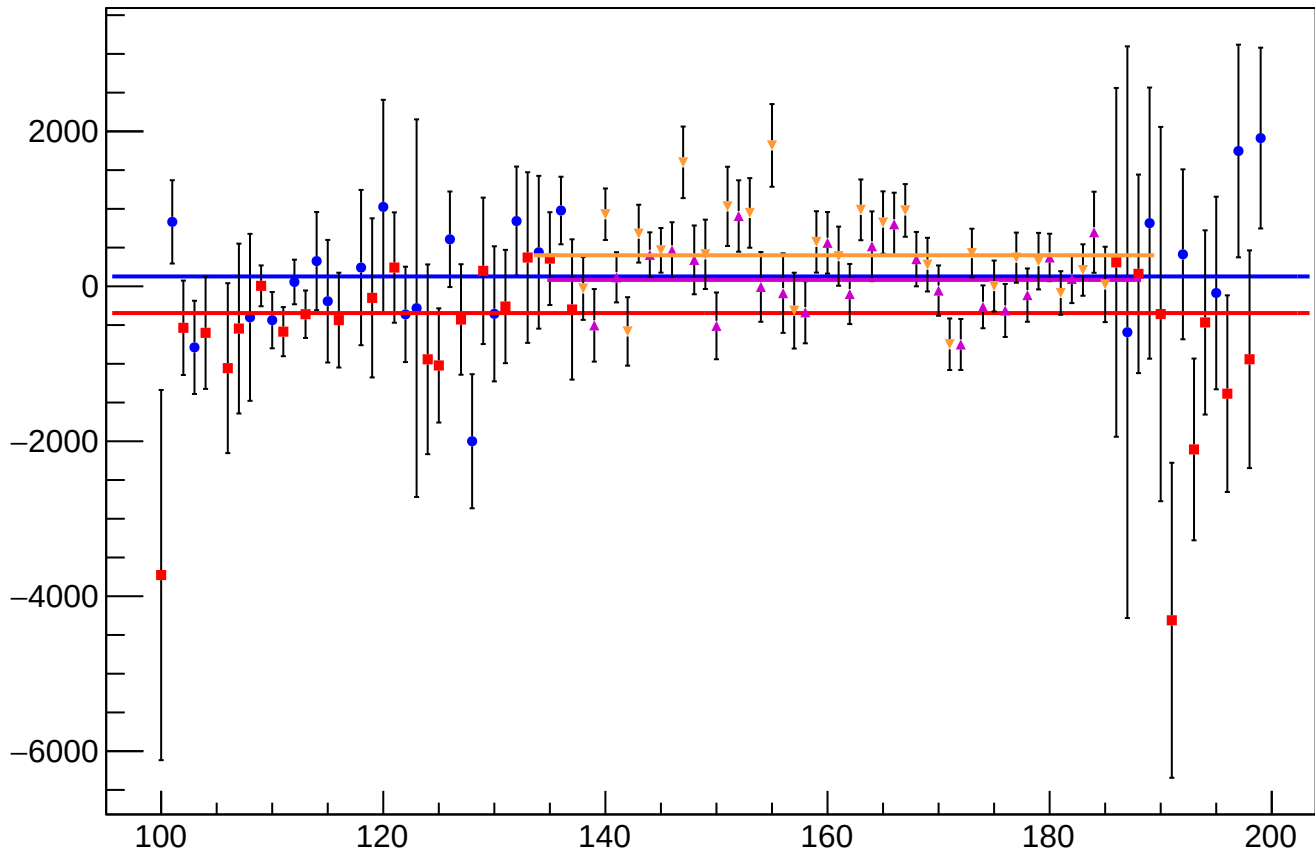
Right: 660.341 $\pm$ 0.120 χ^2 /NDF: 15011315.6/49

In: 840.698 $\pm$ 0.125 χ^2 /NDF: 10356806.1/45

Out: 857.465 $\pm$ 0.121 χ^2 /NDF: 10789342.2/51

All: 849.319 $\pm$ 0.087 χ^2 /NDF: 21155453.5/97

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: -345.015 $\pm$ 125.866 χ^2/NDF : 16.2/26

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

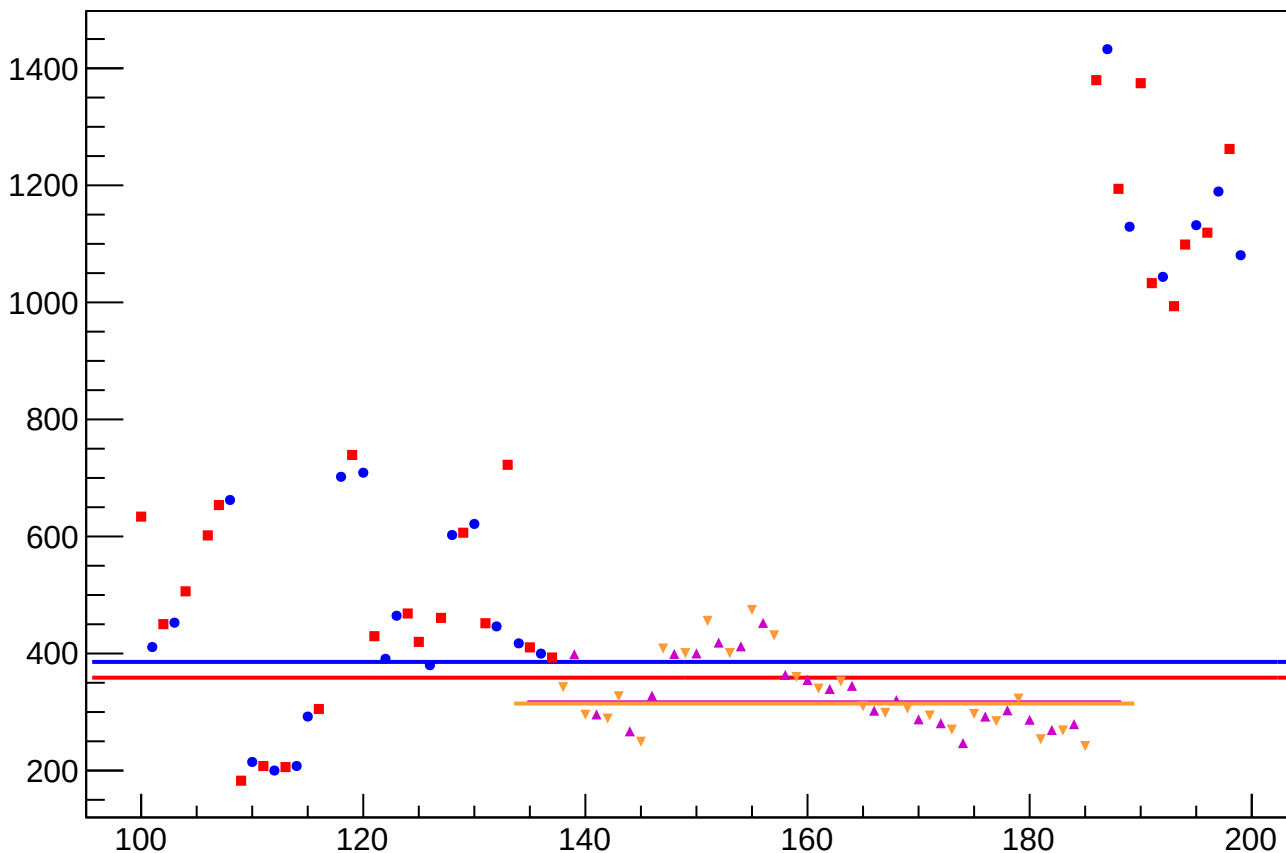
Right: -131.864 $\pm$ 93.257 χ^2/NDF : 46.5/49

In: 93.376 $\pm$ 67.275 χ^2/NDF : 53.1/45

Out: 207.260 $\pm$ 64.141 χ^2/NDF : 94.2/51

All: 153.033 $\pm$ 46.423 χ^2/NDF : 148.8/97

asym_sam7_rms vs Slug, Sign Corrected



Right In: 385.652 $\pm$ 0.098 χ^2 /NDF: 5580962.2/22

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF: 1112445.6/24

Right Out: 358.744 $\pm$ 0.089 χ^2 /NDF: 7768247.6/26

Left In: 316.647 $\pm$ 0.054 χ^2 /NDF: 920874.0/22

Left: 315.560 $\pm$ 0.038 χ^2 /NDF: 2034094.8/47

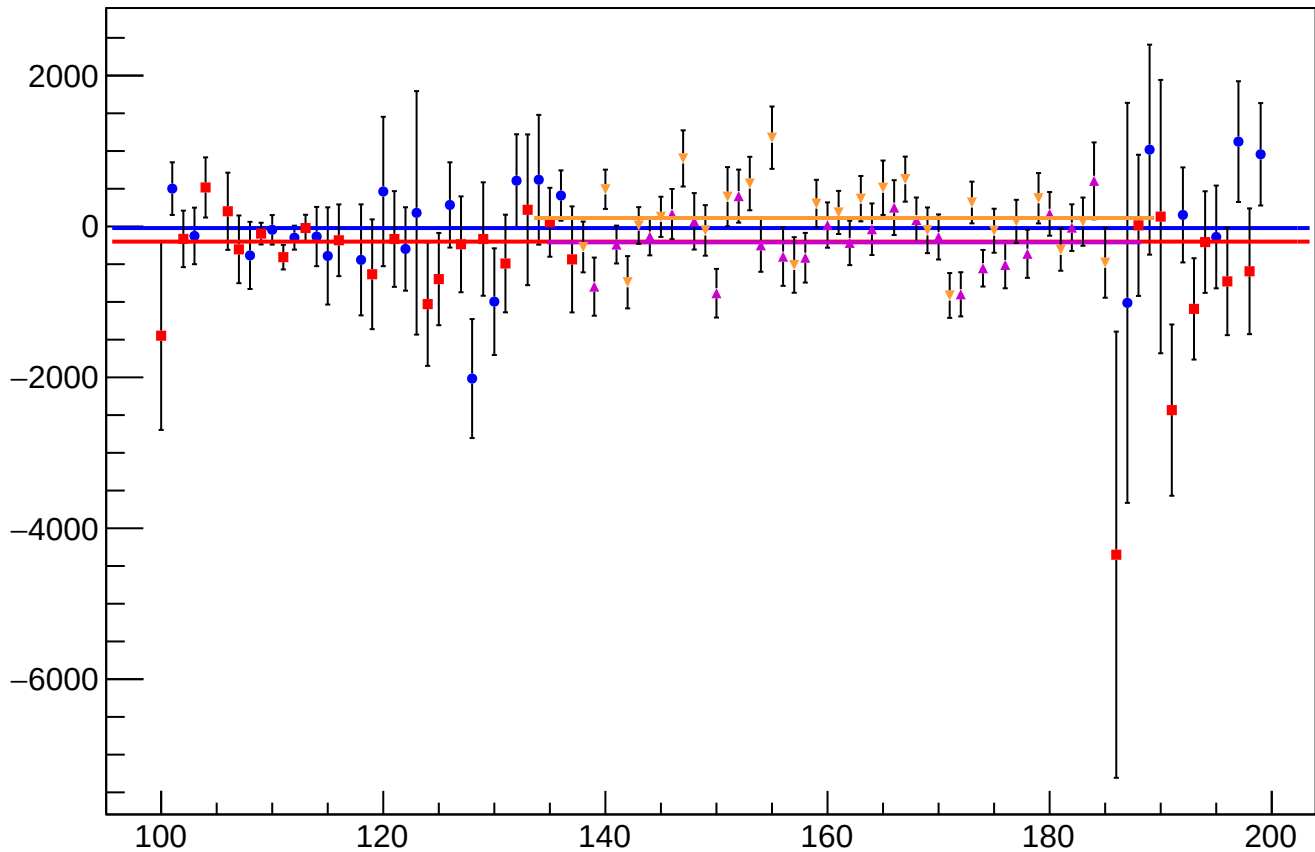
Right: 370.880 $\pm$ 0.066 χ^2 /NDF: 13390436.7/49

In: 332.844 $\pm$ 0.048 χ^2 /NDF: 6879807.6/45

Out: 326.018 $\pm$ 0.045 χ^2 /NDF: 9063328.7/51

All: 329.268 $\pm$ 0.033 χ^2 /NDF: 15953923.0/97

asym_sam8_mean vs Slug, Sign Corrected



Right In: -20.891 ± 87.489 χ^2/NDF : 21.7/22

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -200.646 ± 74.748 χ^2/NDF : 19.4/26

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

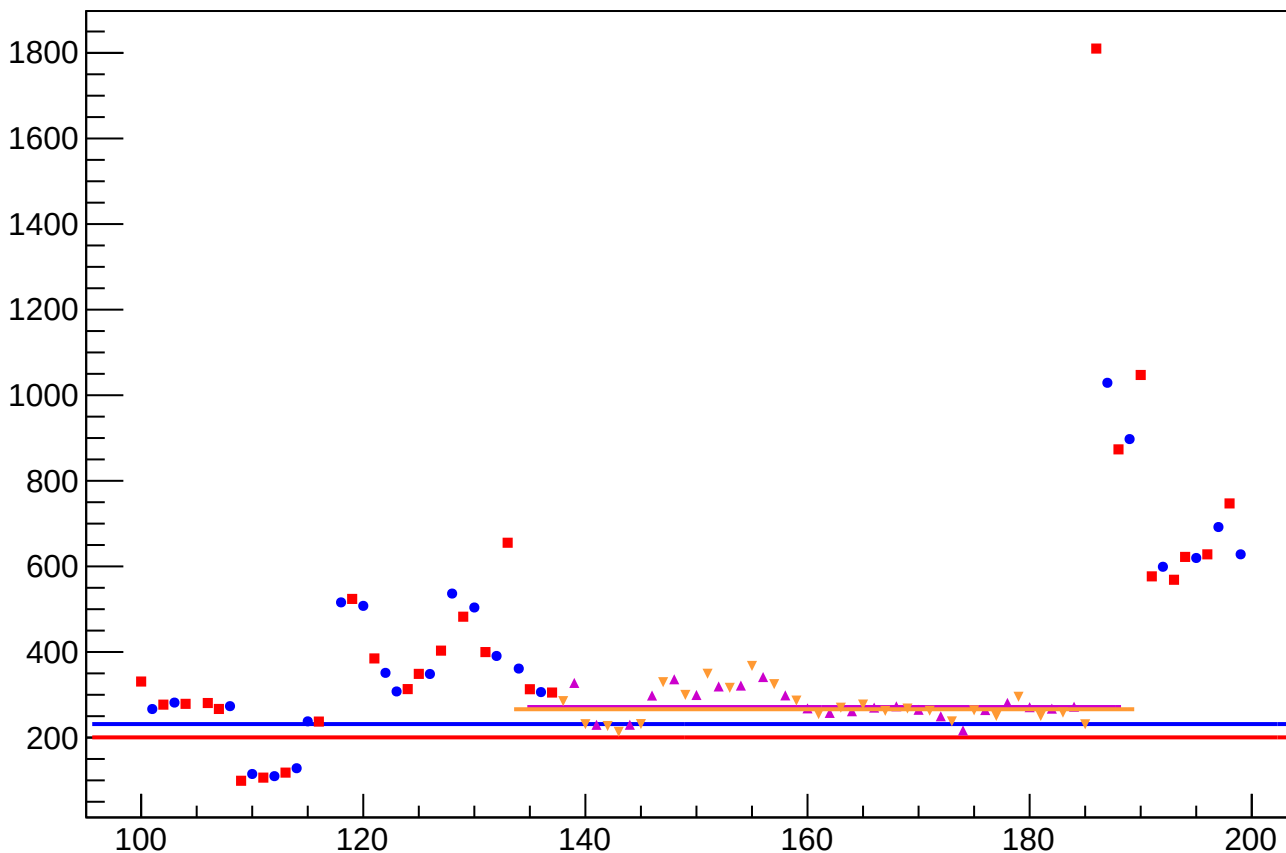
Right: -124.798 ± 56.831 χ^2/NDF : 43.6/49

In: -142.352 ± 52.439 χ^2/NDF : 53.8/45

Out: -16.847 ± 48.012 χ^2/NDF : 78.9/51

All: -74.080 ± 35.411 χ^2/NDF : 135.8/97

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: 200.463+/-0.053 χ^2/NDF : 9619031.3/26

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

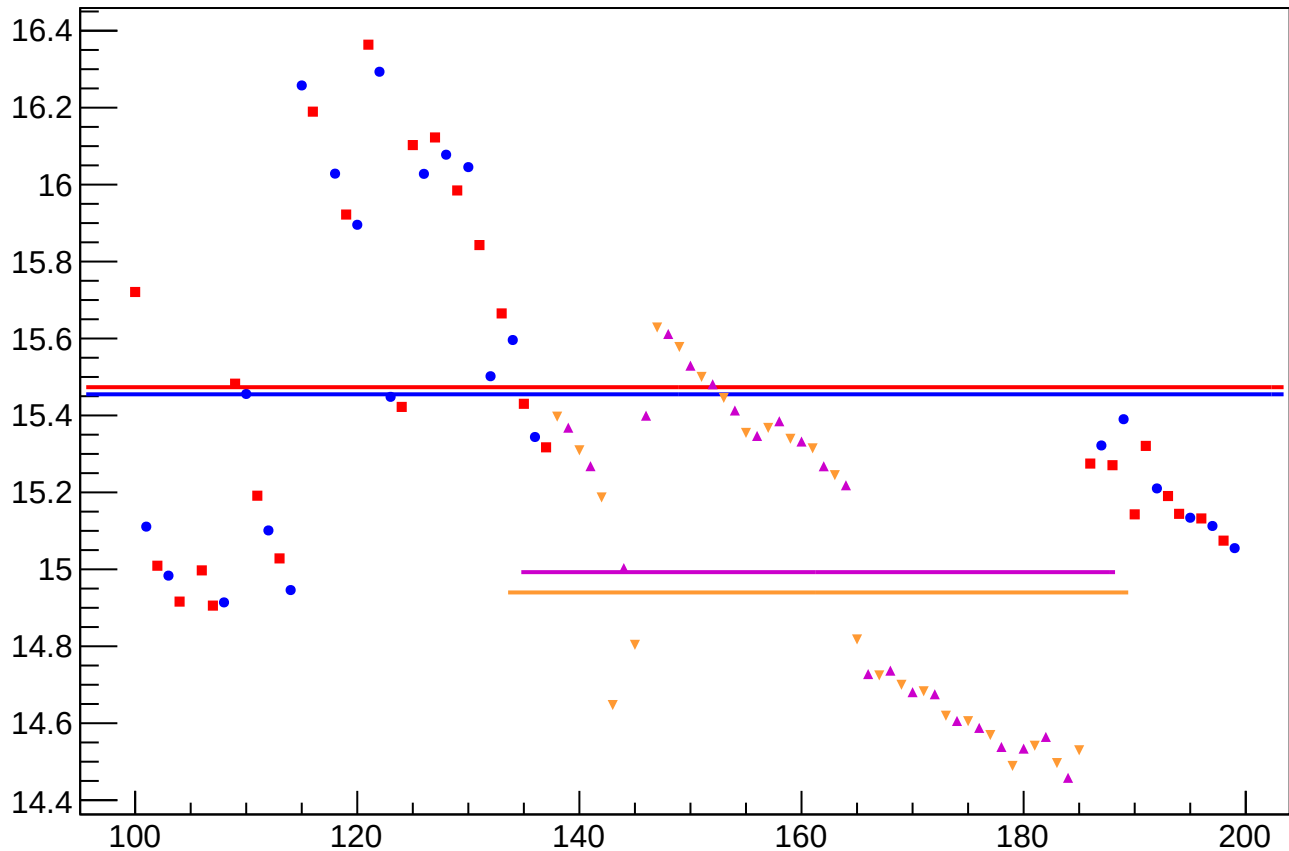
Right: 213.585+/-0.040 χ^2/NDF : 16701471.4/49

In: 257.098+/-0.037 χ^2/NDF : 7724143.9/45

Out: 239.083+/-0.034 χ^2/NDF : 11177528.5/51

All: 247.298+/-0.025 χ^2/NDF : 19030074.3/97

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: 15.473 $\pm$ 0.000 χ^2 /NDF: 8758732559.7/26

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

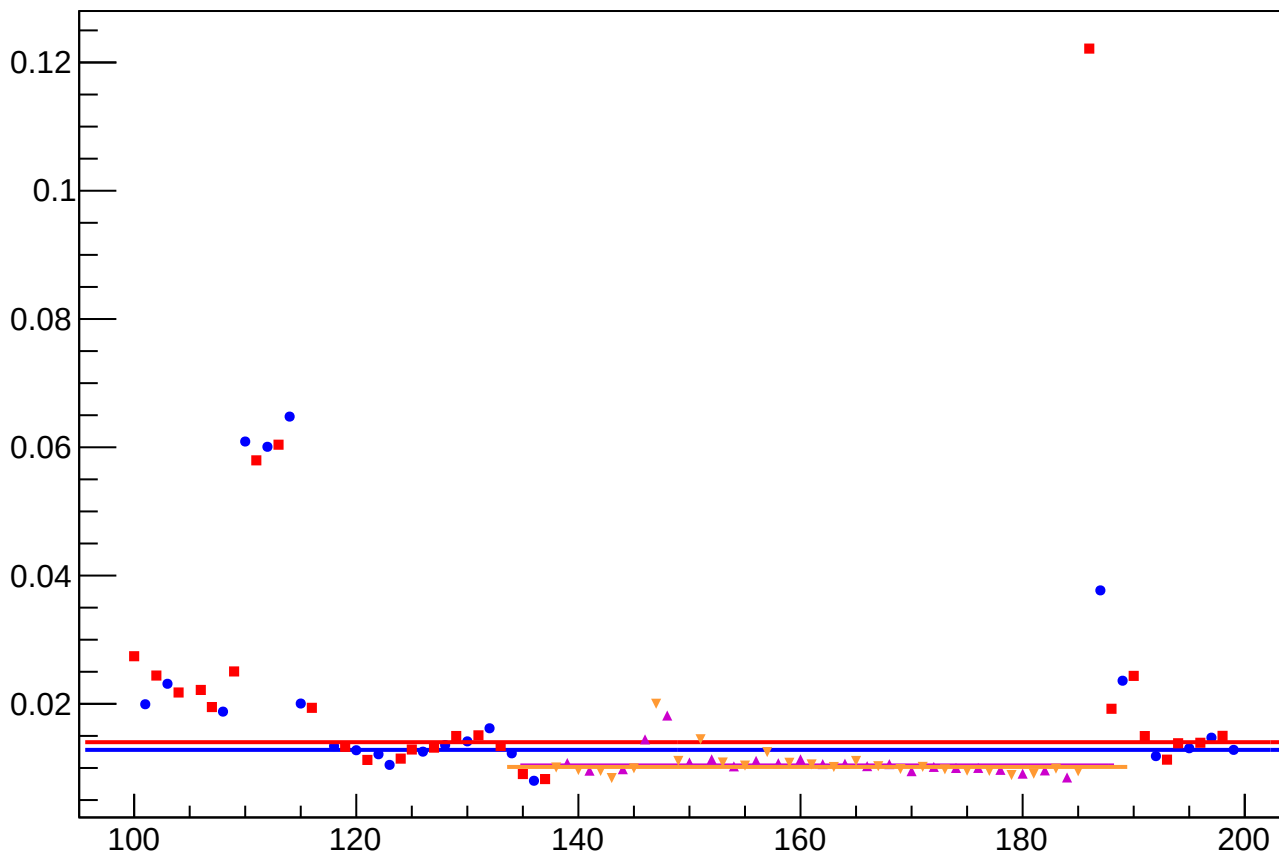
Right: 15.464 $\pm$ 0.000 χ^2 /NDF: 17548743193.0/49

In: 15.113 $\pm$ 0.000 χ^2 /NDF: 39278954489.8/45

Out: 15.063 $\pm$ 0.000 χ^2 /NDF: 43947955891.9/51

All: 15.087 $\pm$ 0.000 χ^2 /NDF: 83492594938.8

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 : 2980748.6/26

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

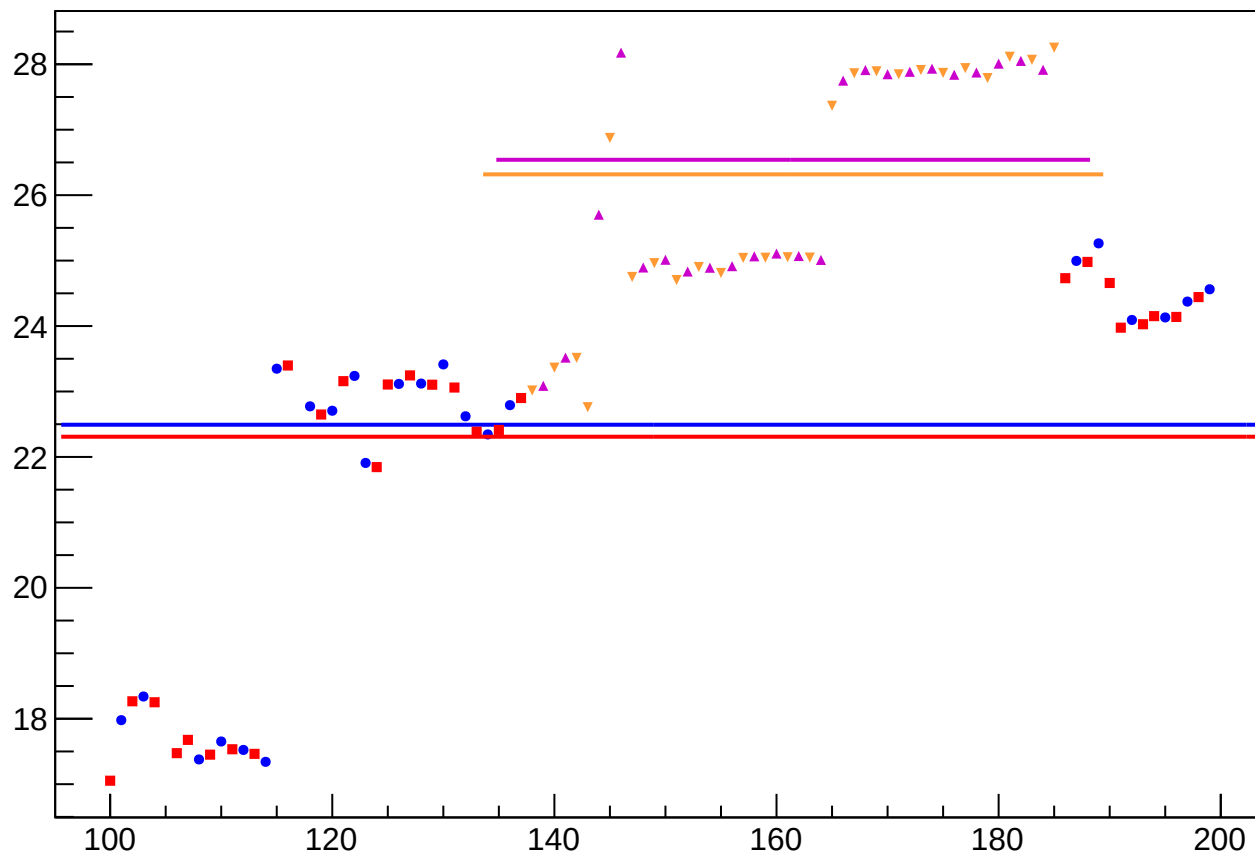
Right: 0.013+/-0.000 χ^2/NDF : 5539449.1/49

In: 0.011+/-0.000 χ^2/NDF : 3494329.0/45

Out: 0.011+/-0.000 χ^2/NDF : 4847989.6/51

All: 0.011+/-0.000 χ^2/NDF : 8342448.7/97

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.492+/-0.000

χ^2/NDF : 1076317284.5/22

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right: 22.404+/-0.000

χ^2/NDF : 2366301258.1/49

Right Out: 22.309+/-0.000

χ^2/NDF : 1284438914.0/26

In: 25.692+/-0.000

χ^2/NDF : 8832224344.9/45

Out: 25.581+/-0.000

χ^2/NDF : 10164122759.1/51

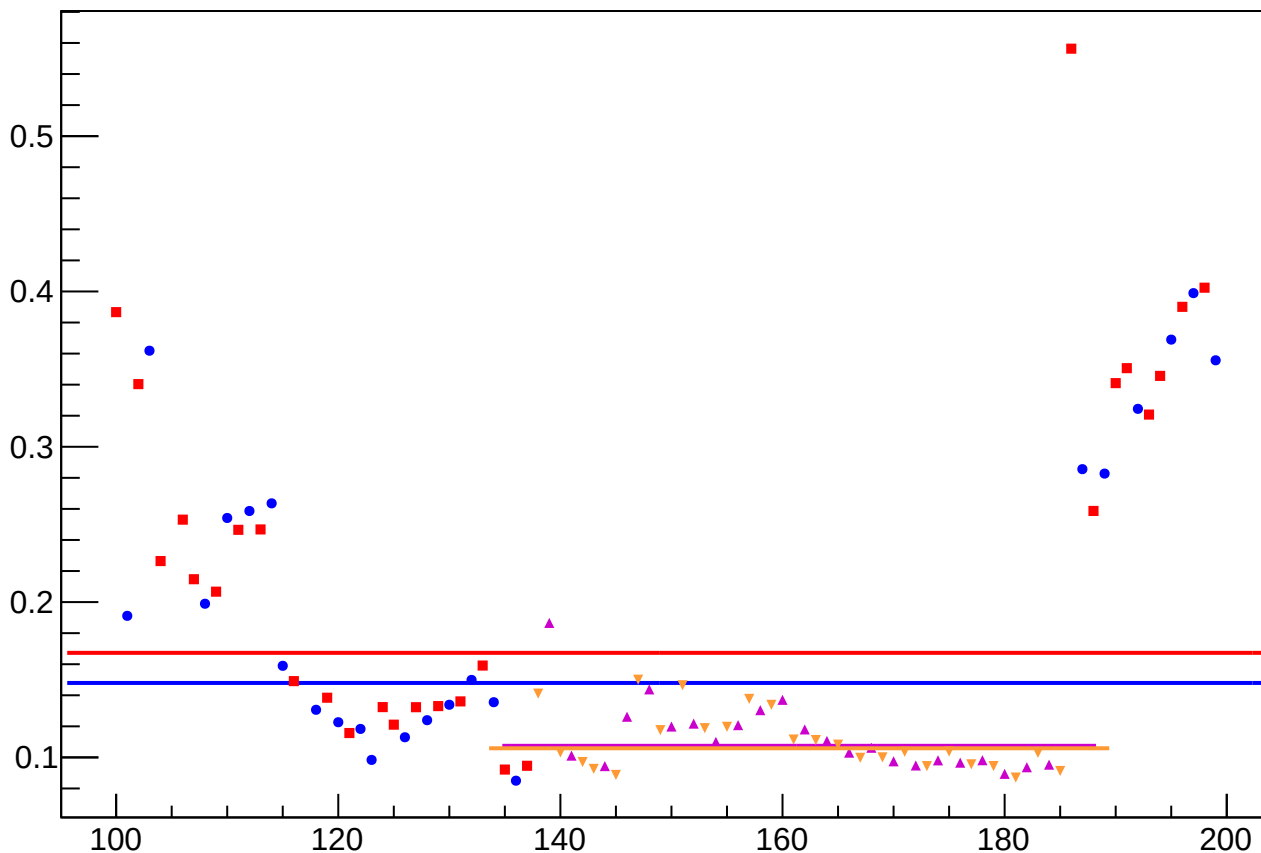
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.635+/-0.000

χ^2/NDF : 19006767186.9

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.148+/-0.000 χ^2/NDF : 4288053.8/22

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.167+/-0.000 χ^2/NDF : 4523696.6/26

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

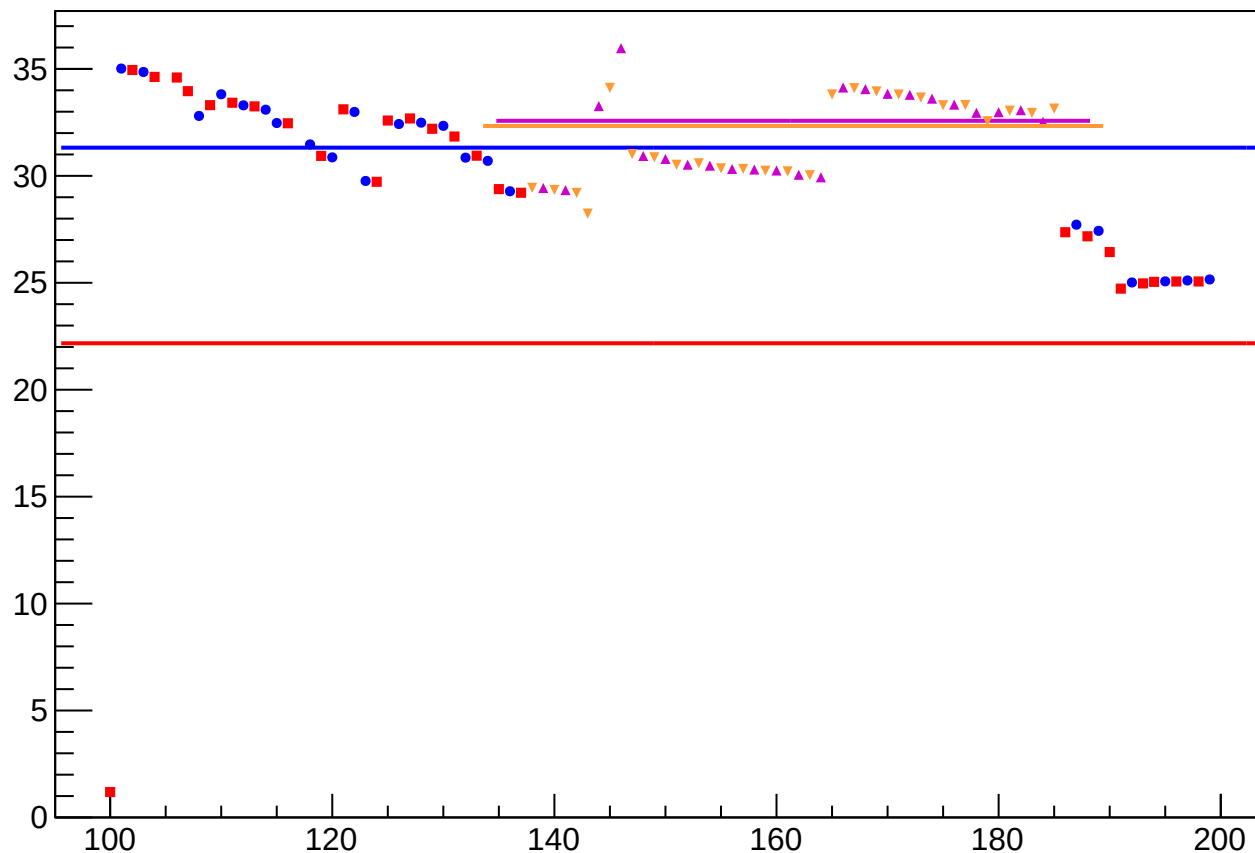
Right: 0.157+/-0.000 χ^2/NDF : 8935662.5/49

In: 0.116+/-0.000 χ^2/NDF : 5948196.3/45

Out: 0.117+/-0.000 χ^2/NDF : 7213104.9/51

All: 0.117+/-0.000 χ^2/NDF : 13163825.7/97

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

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

Right: 25.867+/-0.000

χ^2/NDF : 274422348670.7/49

Right Out: 22.172+/-0.000

χ^2/NDF : 230754553630.2/26

In: 32.364+/-0.000

χ^2/NDF : 17198526138.0/45

Out: 30.085+/-0.000

χ^2/NDF : 337080822179.5/51

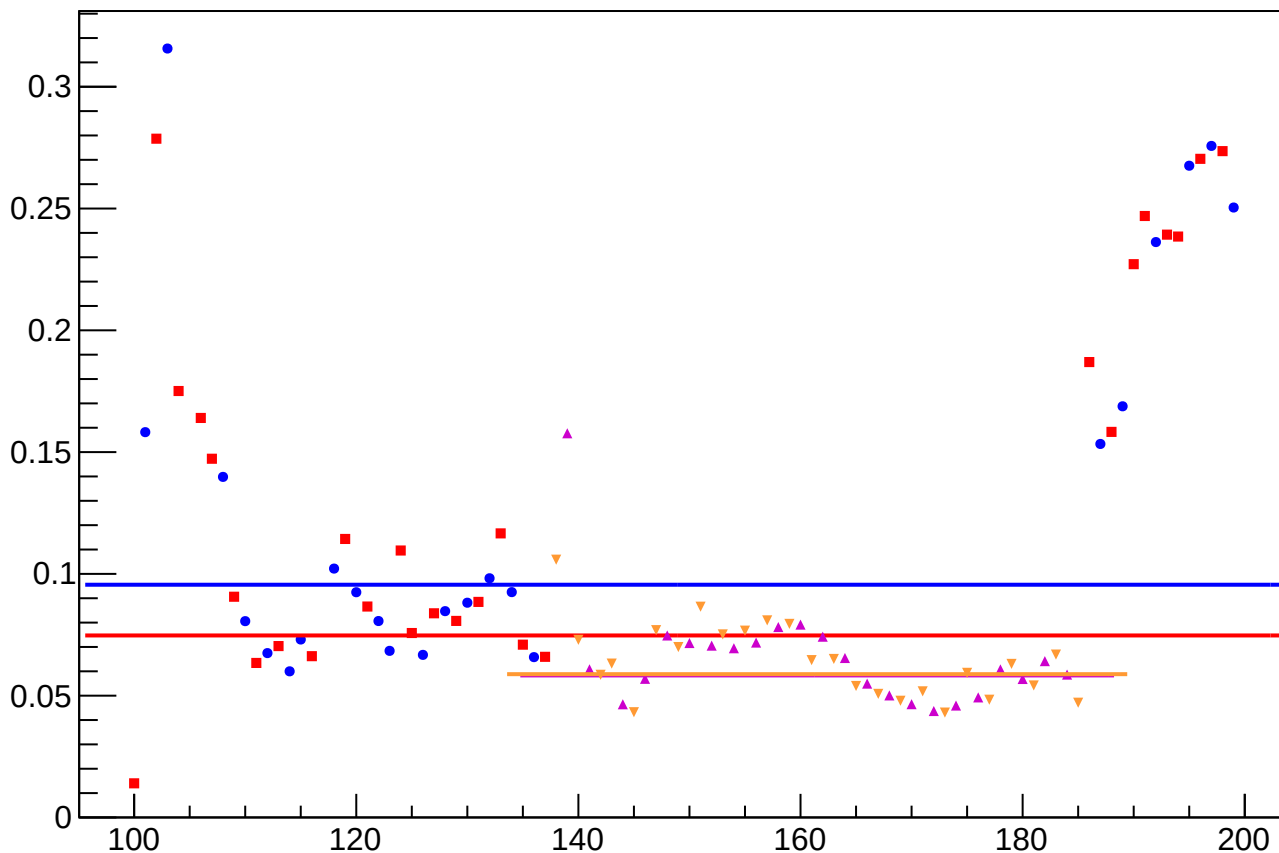
Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

All: 31.161+/-0.000

χ^2/NDF : 367183777248.0/100

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: 0.075 $\pm$ 0.000 χ^2 /NDF: 8359031.2/26

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

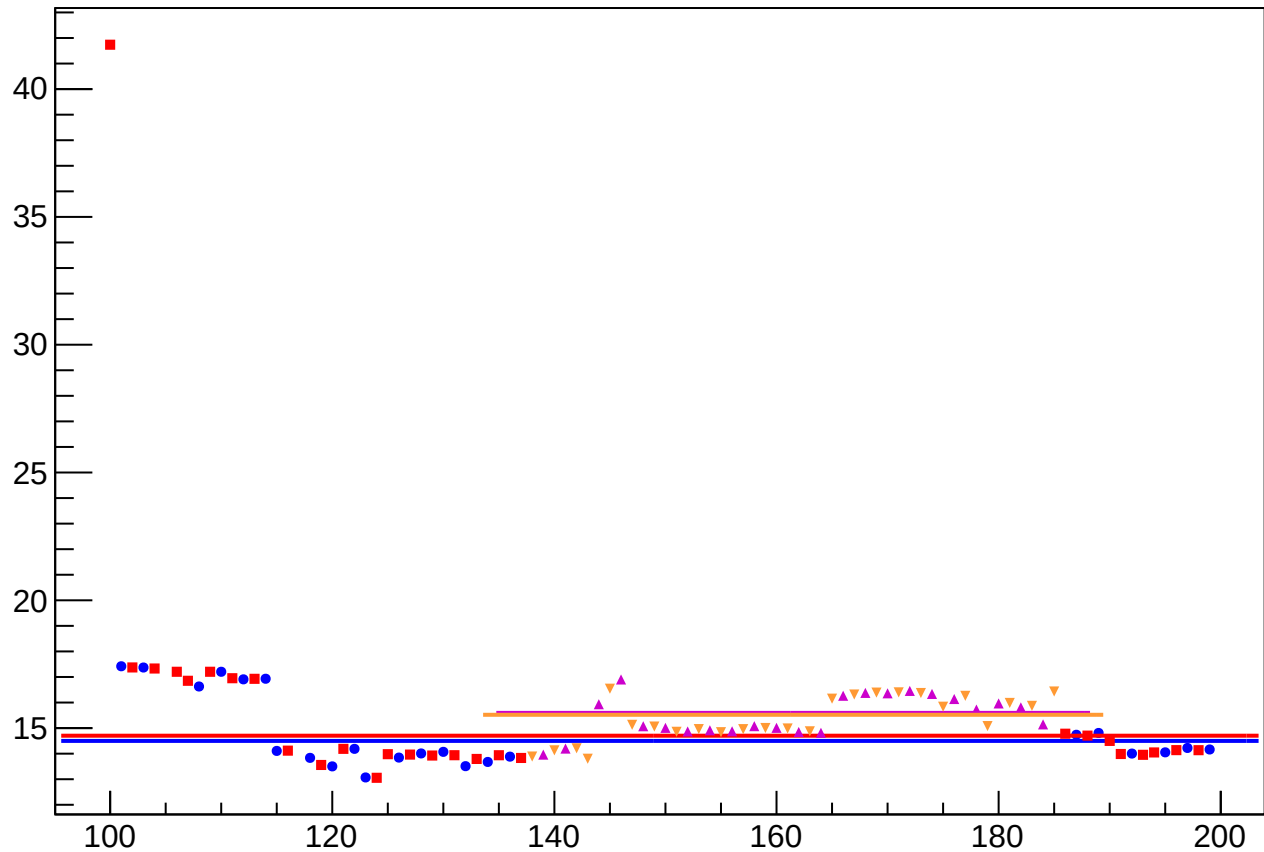
Right: 0.083 $\pm$ 0.000 χ^2 /NDF: 12961468.7/49

In: 0.065 $\pm$ 0.000 χ^2 /NDF:7540183.5/45

Out: 0.062 $\pm$ 0.000 χ^2 /NDF:10219383.0/51

All: 0.063 $\pm$ 0.000 χ^2 /NDF: 17783730.6/97

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.499+/-0.000

χ^2/NDF : 1498618781.1/22

Left Out: 15.521+/-0.000

χ^2/NDF : 2591377740.5/24

Right Out: 14.703+/-0.000

χ^2/NDF : 1936225080.0/26

Left In: 15.595+/-0.000

χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000

χ^2/NDF : 4510008259.4/47

Right: 14.599+/-0.000

χ^2/NDF : 3454109101.3/49

In: 15.359+/-0.000

χ^2/NDF : 4296193763.6/45

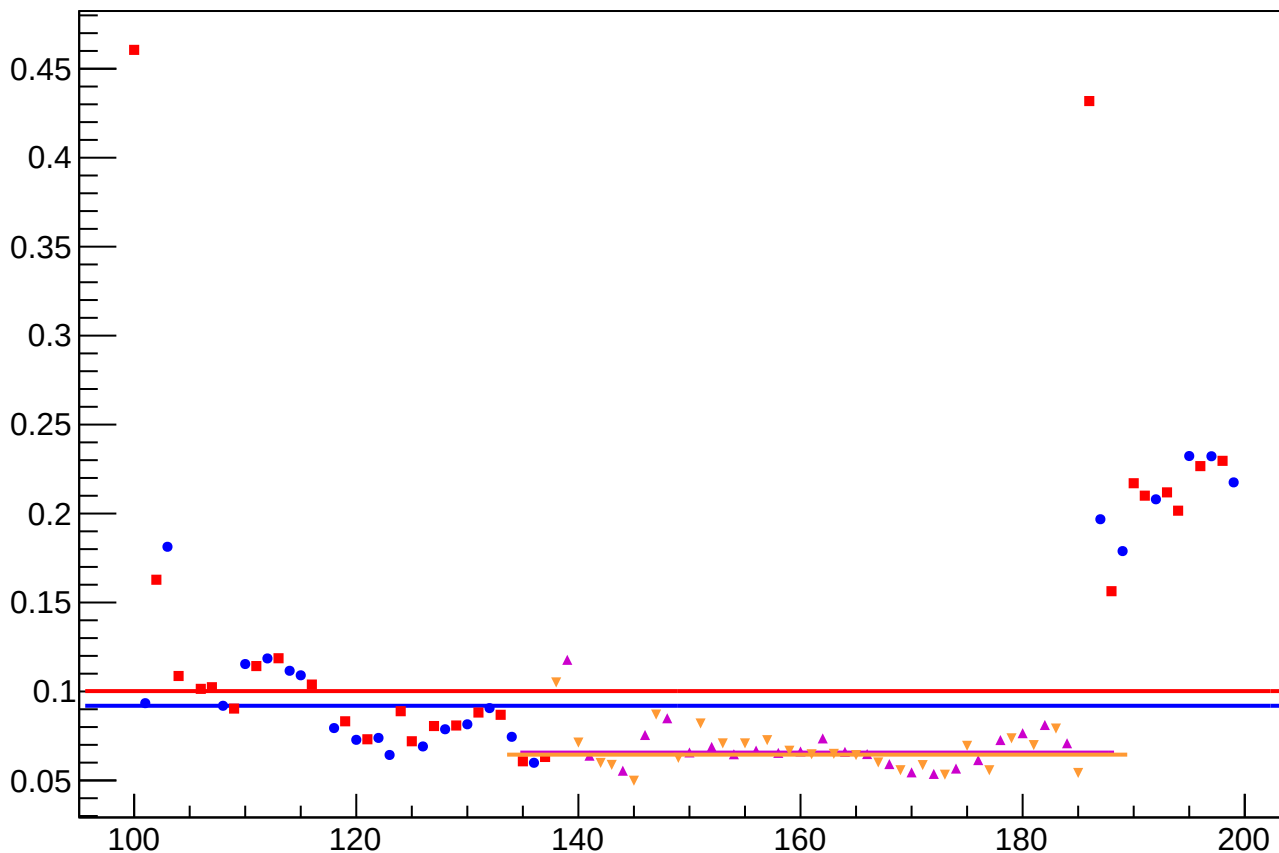
Out: 15.360+/-0.000

χ^2/NDF : 5020822671.3/51

All: 15.360+/-0.000

χ^2/NDF : 9317017982.8/93

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: 0.100 $\pm$ 0.000 χ^2/NDF : 3854398.9/26

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

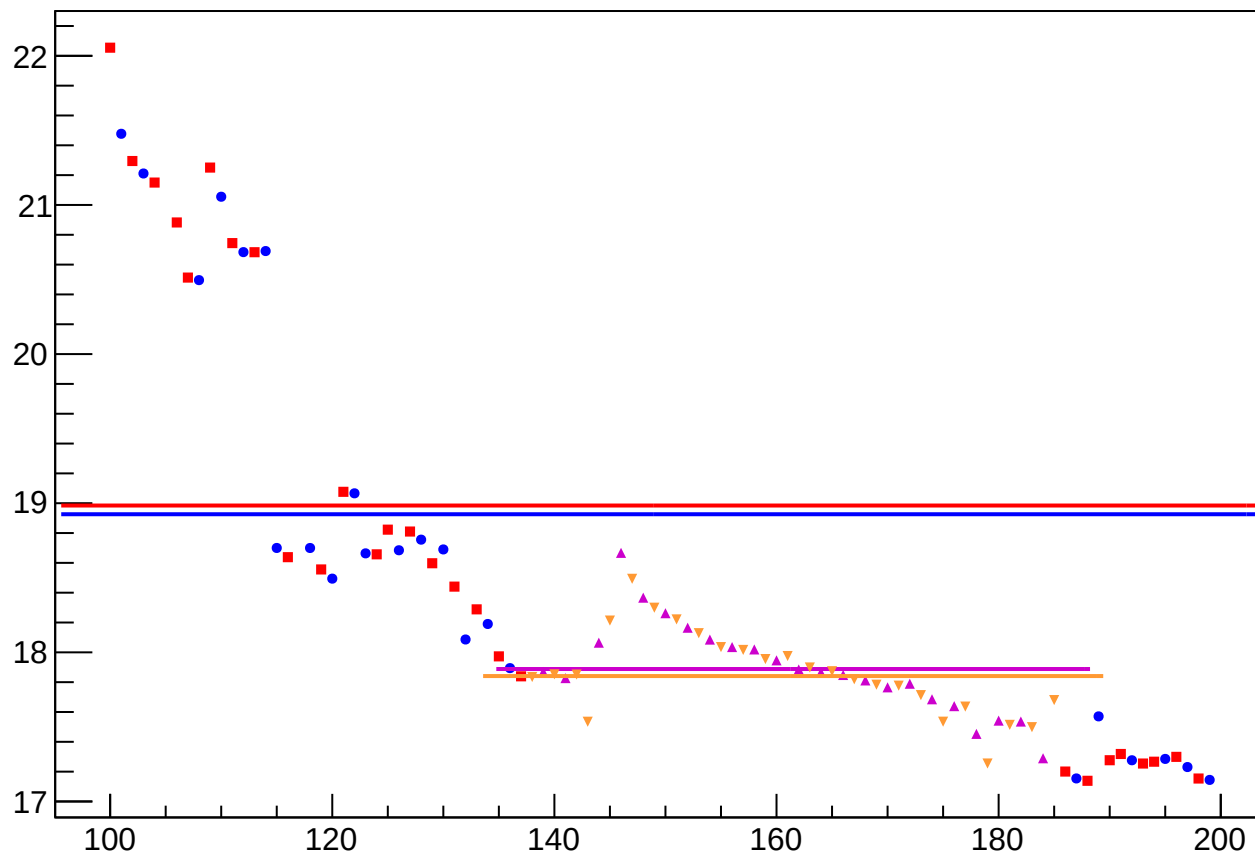
Right: 0.096 $\pm$ 0.000 χ^2/NDF : 7455452.9/49

In: 0.071 $\pm$ 0.000 χ^2/NDF : 5276534.6/45

Out: 0.072 $\pm$ 0.000 χ^2/NDF : 6494745.8/51

All: 0.071 $\pm$ 0.000 χ^2/NDF : 11771465.5/97

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.926+/-0.000 χ^2/NDF : 23473391948.5/22

Left Out: 17.841+/-0.000 χ^2/NDF : 1283287989.7/24

Right Out: 18.985+/-0.000 χ^2/NDF : 26047569783.3/26

Left In: 17.888+/-0.000 χ^2/NDF : 1203002311.3/22

Left: 17.864+/-0.000 χ^2/NDF : 2506375288.6/47

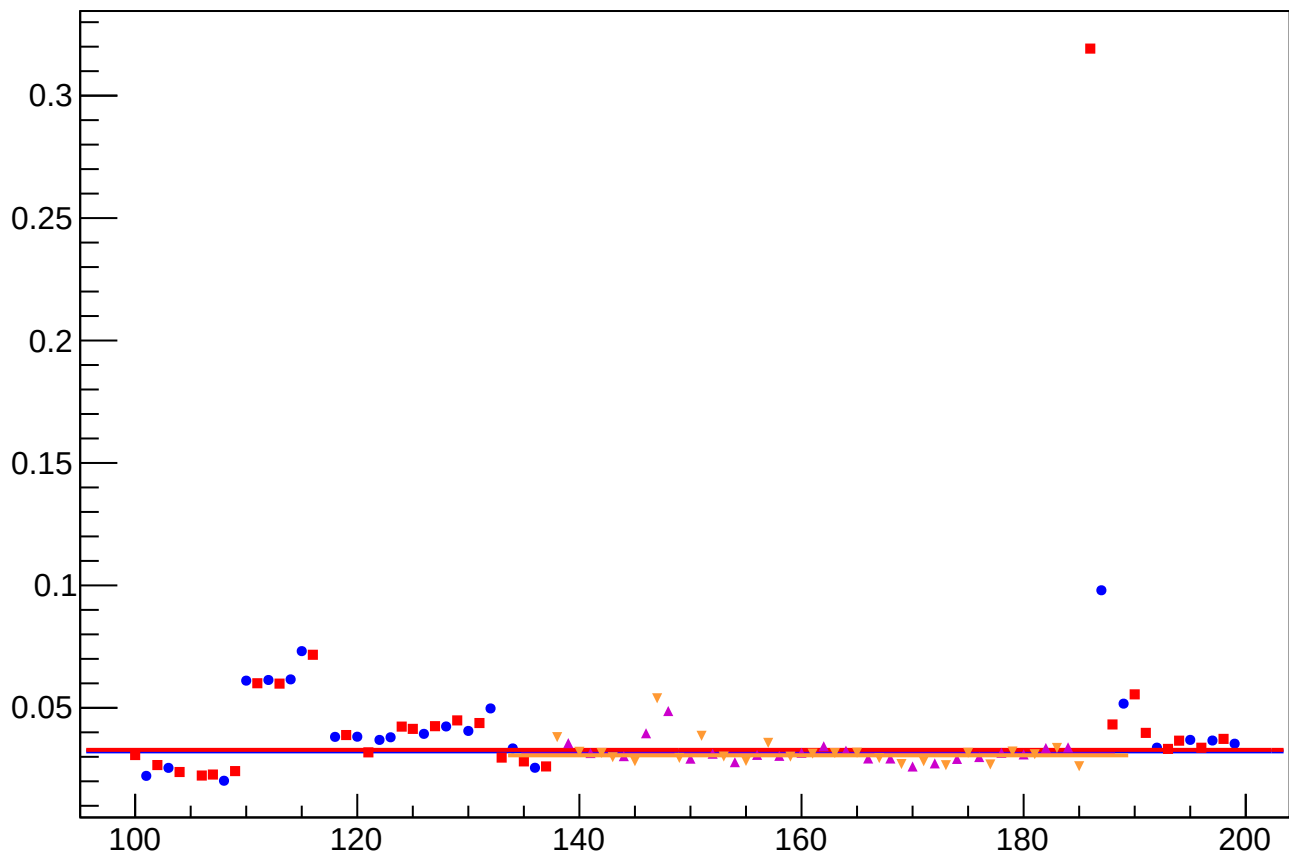
Right: 18.956+/-0.000 χ^2/NDF : 49536603271.2/49

In: 18.238+/-0.000 χ^2/NDF : 30985120318.6/45

Out: 18.227+/-0.000 χ^2/NDF : 35559024619.7/51

All: 18.232+/-0.000 χ^2/NDF : 66545877704.1

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: 2081102.5/26

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

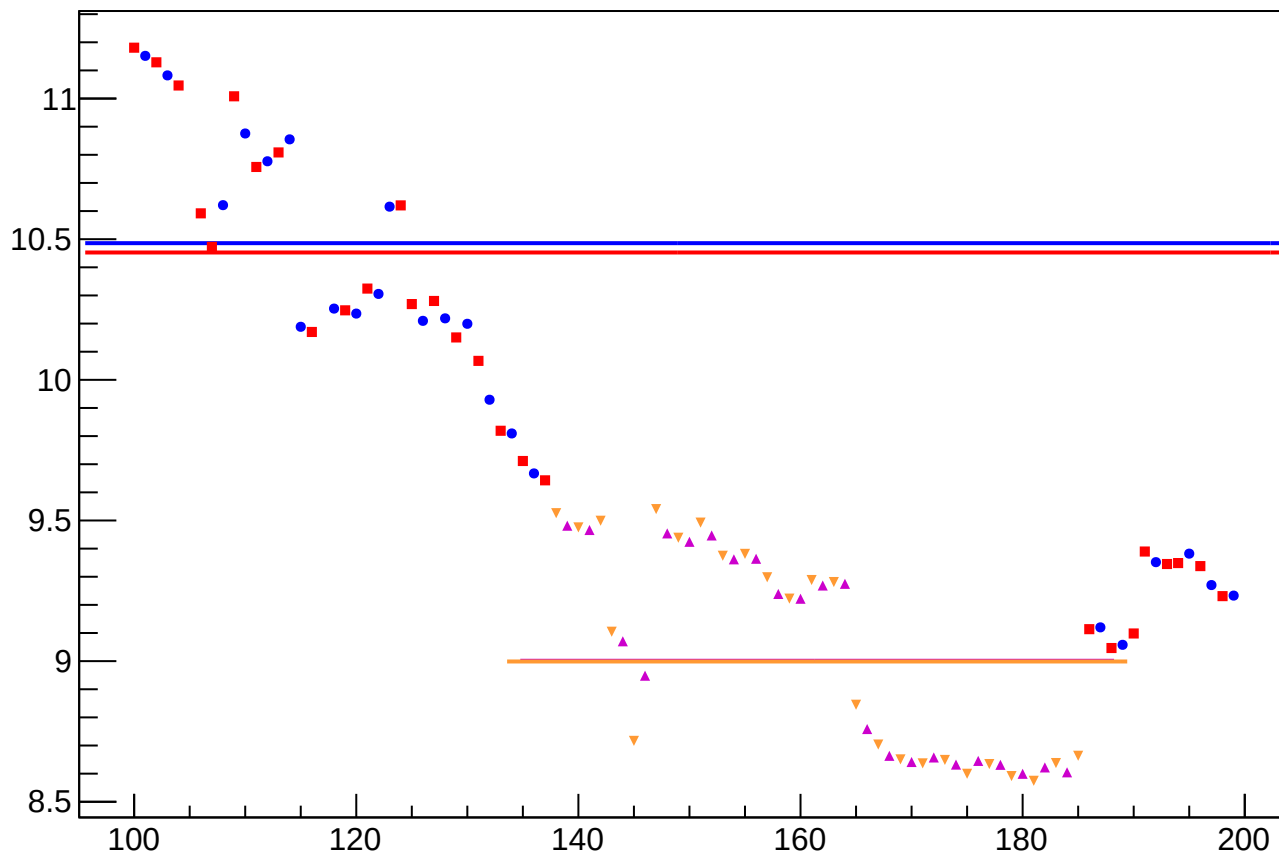
Right: 0.033 $\pm$ 0.000 χ^2 /NDF: 3758325.4/49

In: 0.031 $\pm$ 0.000 χ^2 /NDF:2147516.9/45

Out: 0.031 $\pm$ 0.000 χ^2 /NDF:2734455.5/51

All: 0.031 $\pm$ 0.000 χ^2 /NDF: 4881979.6/97

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: 10.453 $\pm$ 0.000 χ^2 /NDF: 10027402466.1/26

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

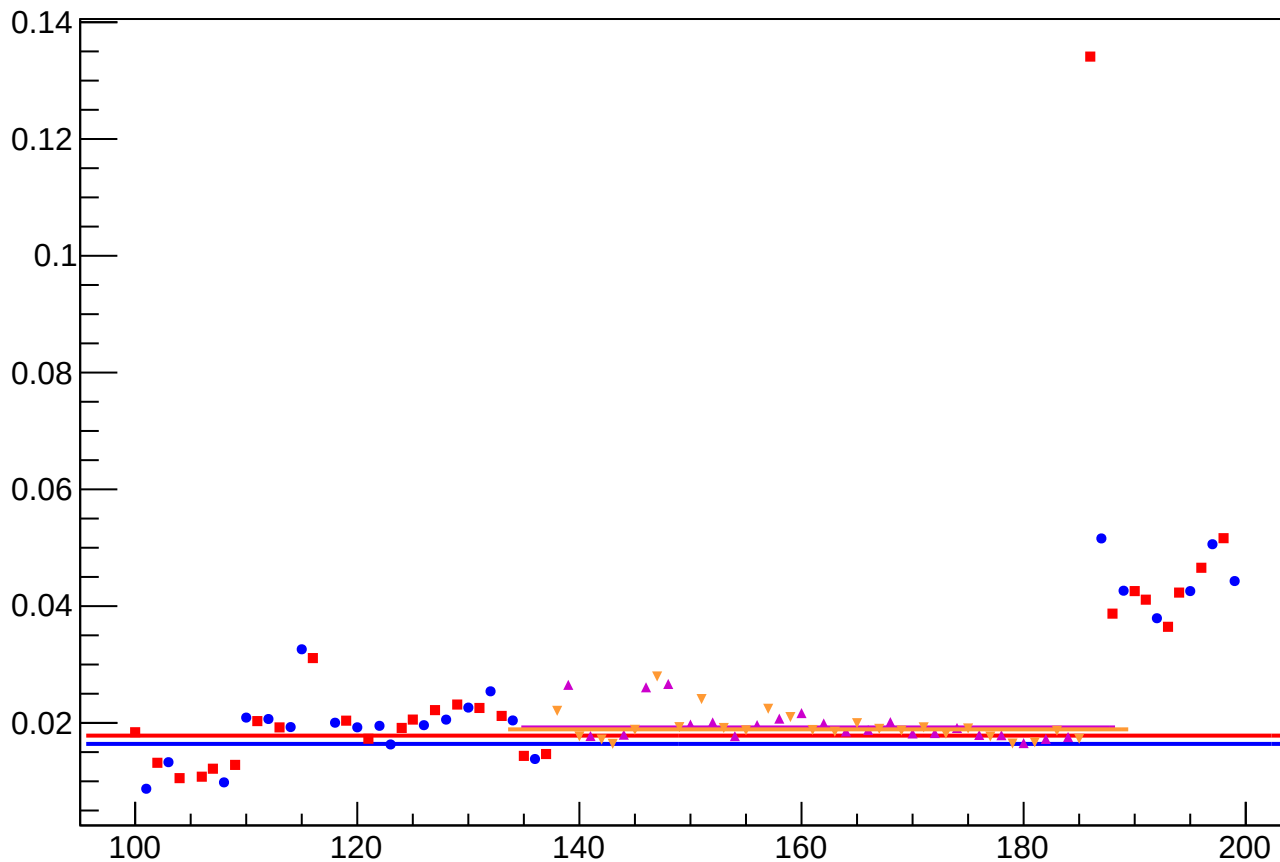
Right: 10.469 $\pm$ 0.000 χ^2 /NDF: 20806107978.8/49

In: 9.590 $\pm$ 0.000 χ^2 /NDF: 53477200277.9/45

Out: 9.540 $\pm$ 0.000 χ^2 /NDF: 53368360194.5/51

All: 9.564 $\pm$ 0.000 χ^2 /NDF: 106936843959.1

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 : 4963021.4/26

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

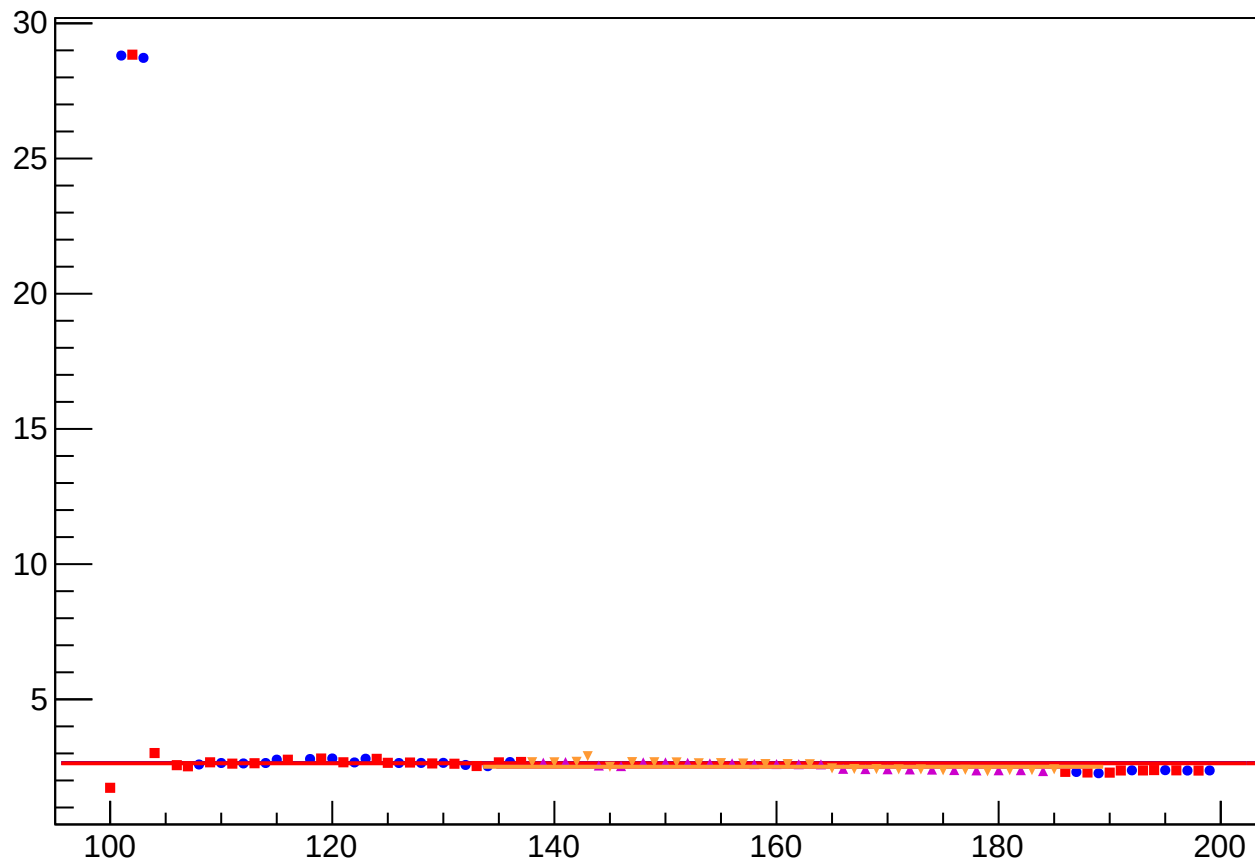
Right: 0.017+/-0.000 χ^2/NDF : 9647406.4/49

In: 0.018+/-0.000 χ^2/NDF : 5379688.2/45

Out: 0.018+/-0.000 χ^2/NDF : 5431408.0/51

All: 0.018+/-0.000 χ^2/NDF : 10822235.6/97

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.646+/-0.000 χ^2/NDF : 170837250331.3/22

Left Out: 2.507+/-0.000 χ^2/NDF : 64277969186.7/24

Right Out: 2.636+/-0.000 χ^2/NDF : 81876297714.9/26

Left In: 2.505+/-0.000 χ^2/NDF : 42893630742.5/22

Left: 2.506+/-0.000 χ^2/NDF : 107174595641.7/47

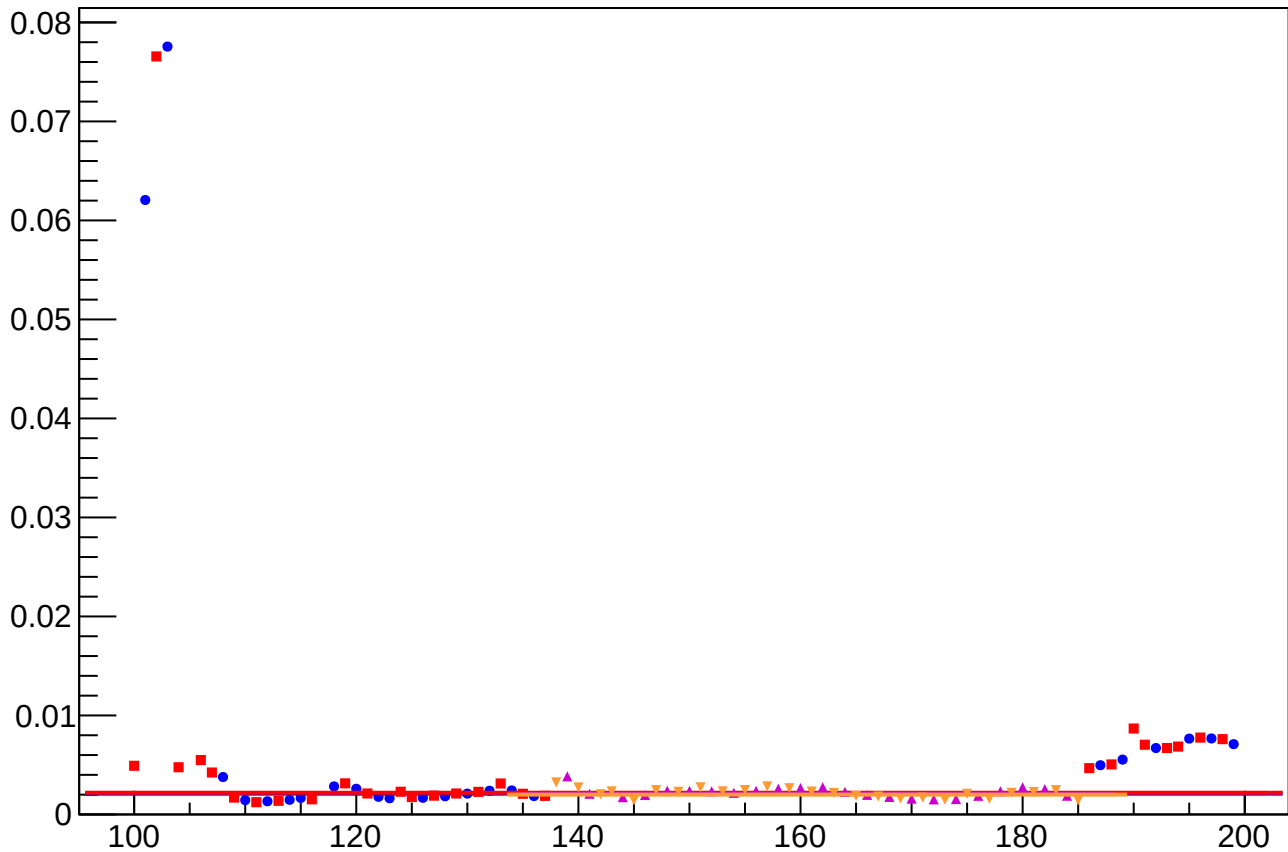
Right: 2.641+/-0.000 χ^2/NDF : 252787506187.4/49

In: 2.548+/-0.000 χ^2/NDF : 233434279684.2/45

Out: 2.545+/-0.000 χ^2/NDF : 164157962683.0/51

All: 2.546+/-0.000 χ^2/NDF : 397614492884.1

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 6604704.7/22

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1469103.5/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 7028230.7/26

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1303230.9/22

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 2781893.0/47

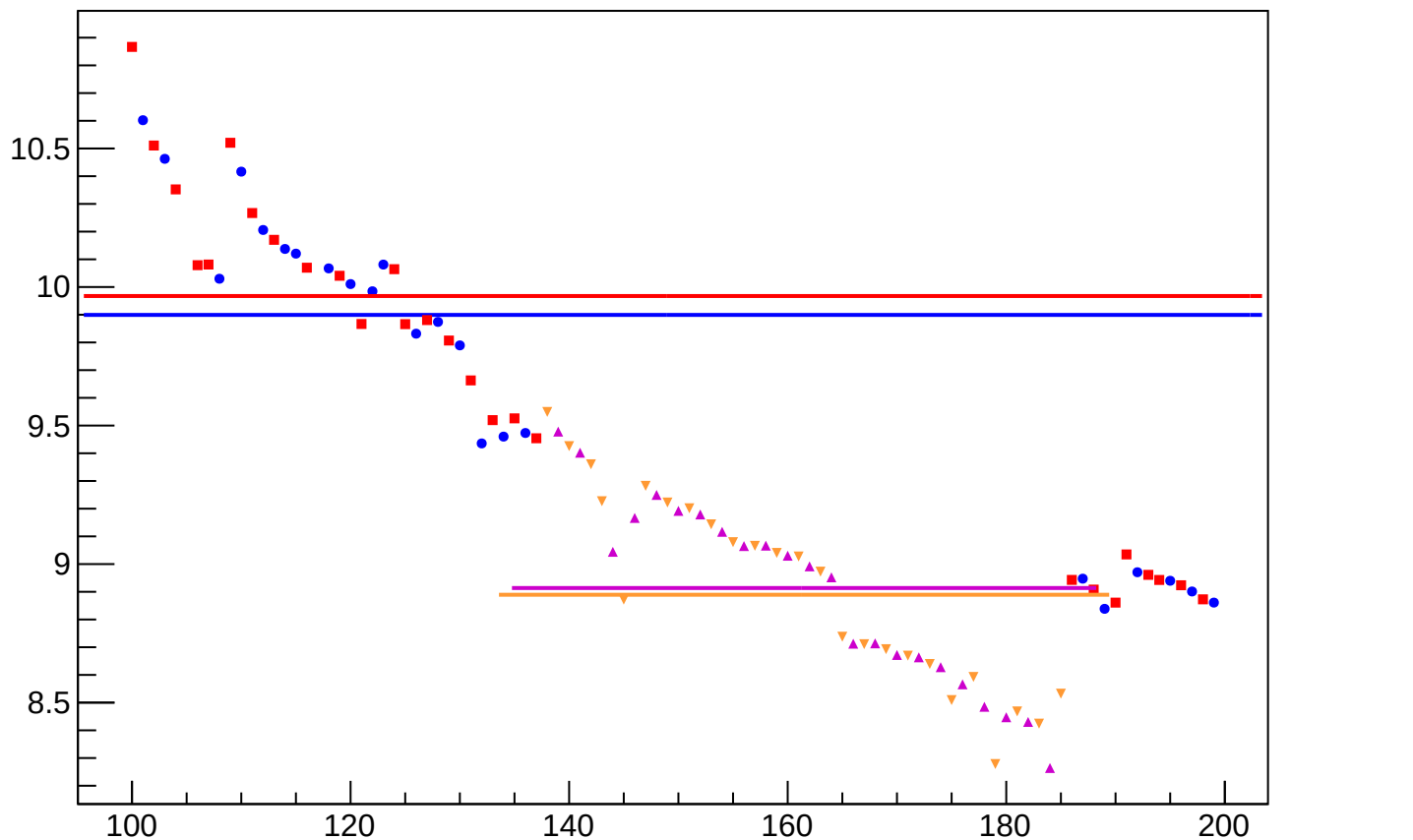
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 13645234.3/49

In: 0.002 $\pm$ 0.000 χ^2 /NDF:7911779.9/45

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:8573224.4/51

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 16485544.4/97

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.899 $\pm$ 0.000 χ^2 /NDF: 36408551497.0/22

Left Out: 8.889 $\pm$ 0.000 χ^2 /NDF: 34704694045.9/24

Right Out: 9.968 $\pm$ 0.000 χ^2 /NDF: 39824335873.2/26

Left In: 8.914 $\pm$ 0.000 χ^2 /NDF: 28497227562.7/22

Left: 8.901 $\pm$ 0.000 χ^2 /NDF: 63312247922.6/47

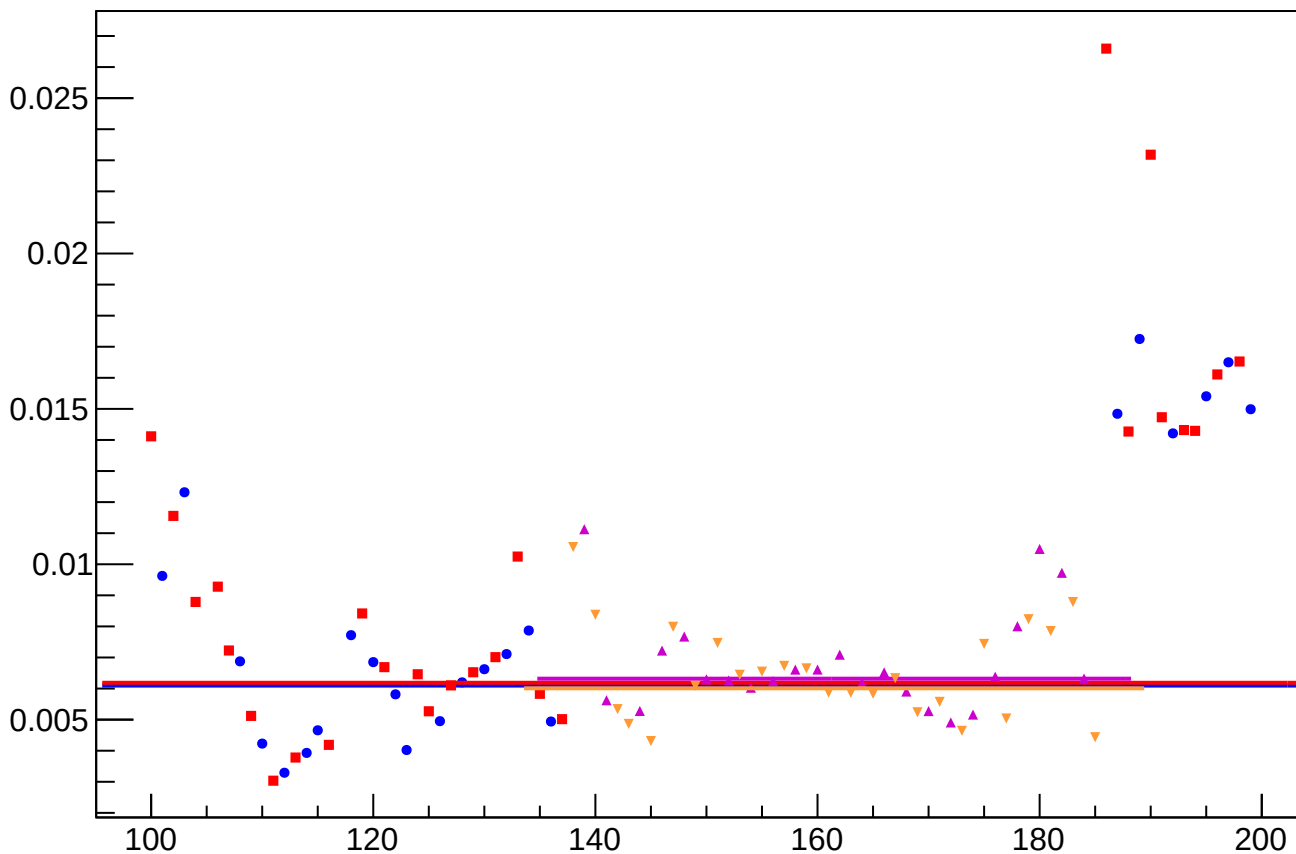
Right: 9.935 $\pm$ 0.000 χ^2 /NDF: 76708077273.9/49

In: 9.270 $\pm$ 0.000 χ^2 /NDF: 187357042314.3/45

Out: 9.261 $\pm$ 0.000 χ^2 /NDF: 235761493171.1/51

All: 9.265 $\pm$ 0.000 χ^2 /NDF: 423145794965.1

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 : 5739915.5/26

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

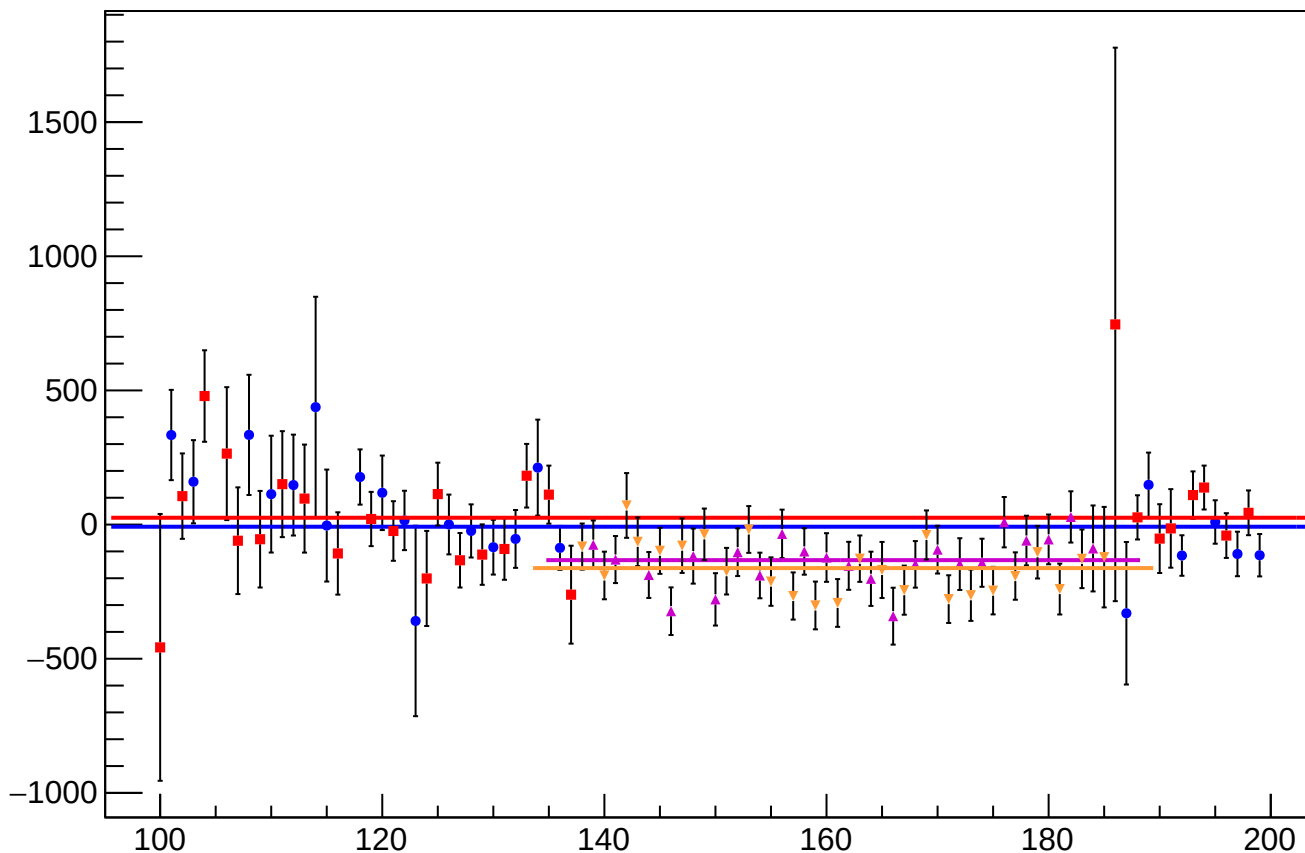
Right: 0.006+/-0.000 χ^2/NDF : 10048399.5/49

In: 0.006+/-0.000 χ^2/NDF :5406241.4/45

Out: 0.006+/-0.000 χ^2/NDF :7061168.4/51

All: 0.006+/-0.000 χ^2/NDF : 12483663.4/97

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: 25.478 ± 23.662 $\chi^2/\text{NDF}: 27.5/26$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

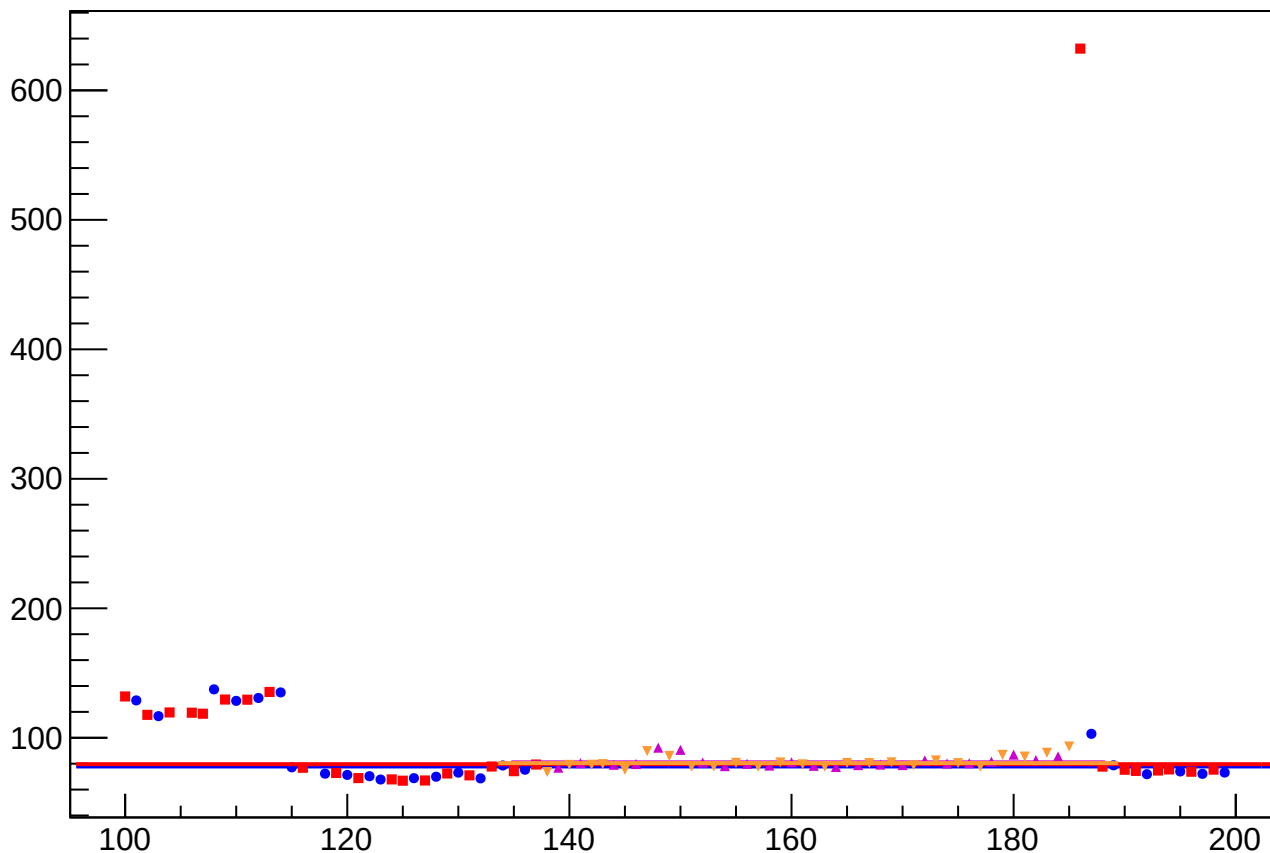
Right: 9.285 ± 17.002 $\chi^2/\text{NDF}: 55.1/49$

In: -84.417 ± 15.198 $\chi^2/\text{NDF}: 63.3/45$

Out: -89.810 ± 14.693 $\chi^2/\text{NDF}: 91.8/51$

All: -87.205 ± 10.564 $\chi^2/\text{NDF}: 155.2/97$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 77.856+/-0.017 χ^2/NDF : 875808.6/22

Left Out: 80.459+/-0.013 χ^2/NDF : 89942.2/24

Right Out: 79.611+/-0.017 χ^2/NDF : 1531893.3/26

Left In: 81.014+/-0.014 χ^2/NDF : 72250.2/22

Left: 80.727+/-0.010 χ^2/NDF : 163039.2/47

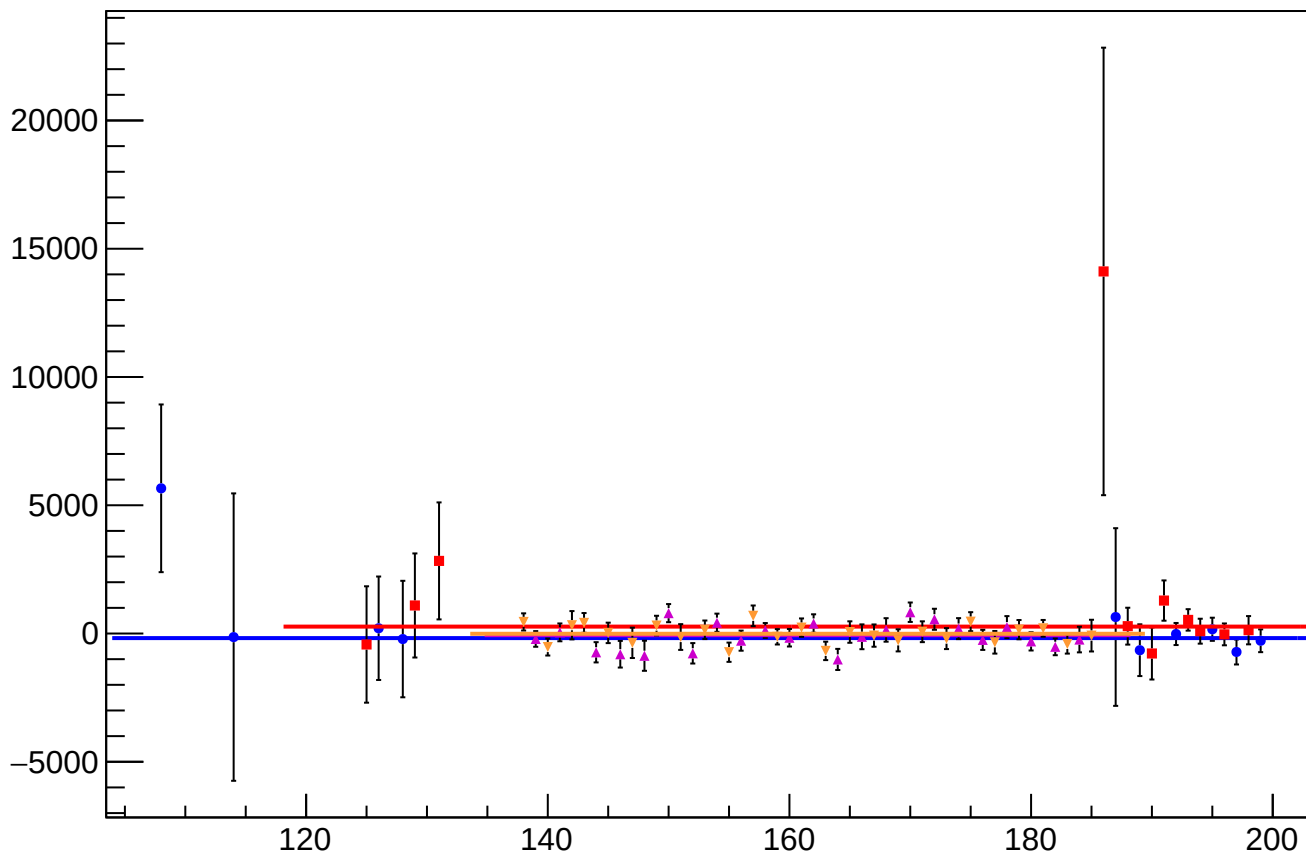
Right: 78.762+/-0.012 χ^2/NDF : 2413021.0/49

In: 79.793+/-0.011 χ^2/NDF : 968532.8/45

Out: 80.132+/-0.010 χ^2/NDF : 1623414.5/51

All: 79.968+/-0.007 χ^2/NDF : 2592459.5/97

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: 269.598 ± 204.362 χ^2/NDF : 7.9/10

Left In: -64.591 ± 80.047 χ^2/NDF : 37.4/22

Left: -36.973 ± 56.007 χ^2/NDF : 60.2/47

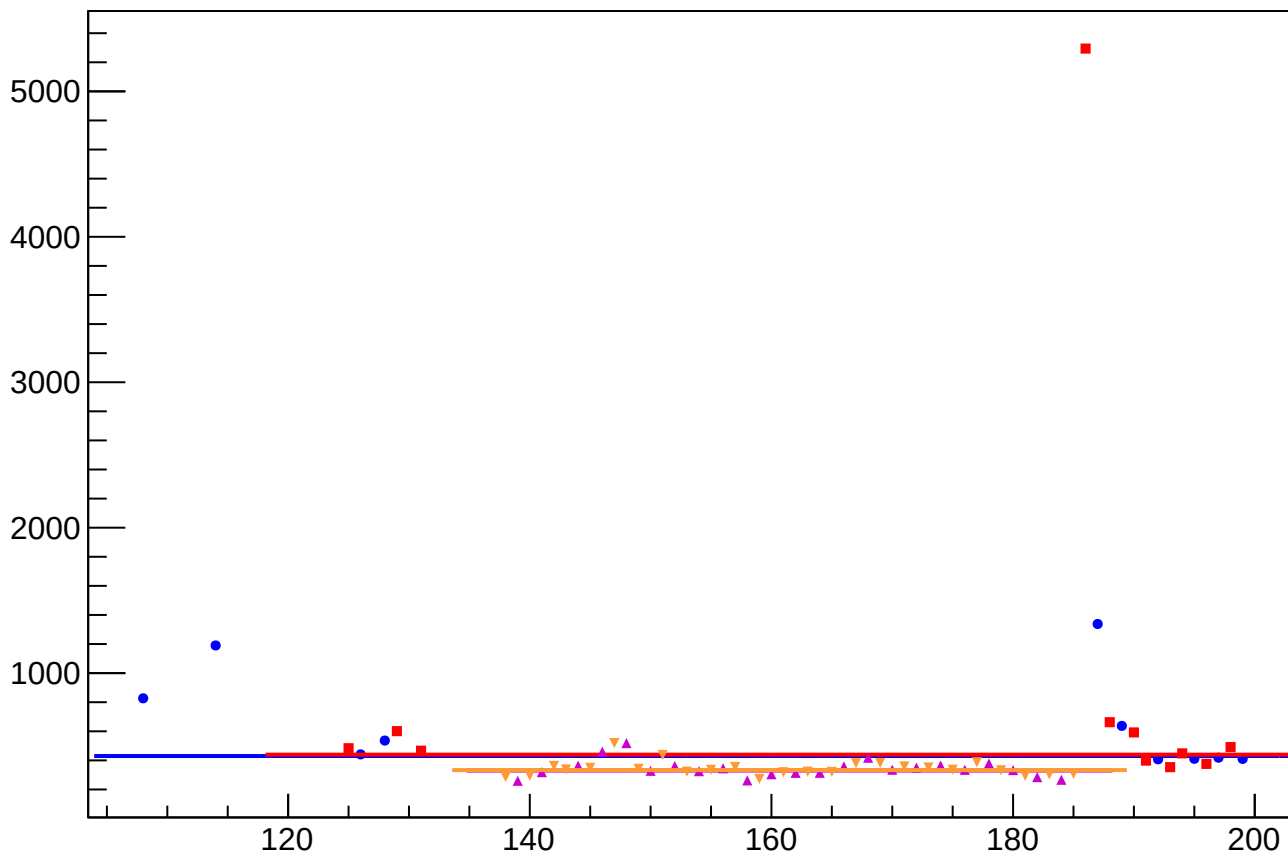
Right: 59.062 ± 148.794 χ^2/NDF : 15.6/20

In: -78.222 ± 75.103 χ^2/NDF : 43.1/32

Out: 25.439 ± 73.191 χ^2/NDF : 32.1/35

All: -25.055 ± 52.417 χ^2/NDF : 76.2/68

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: 439.389+/-0.145 χ^2/NDF : 1024322.8/10

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

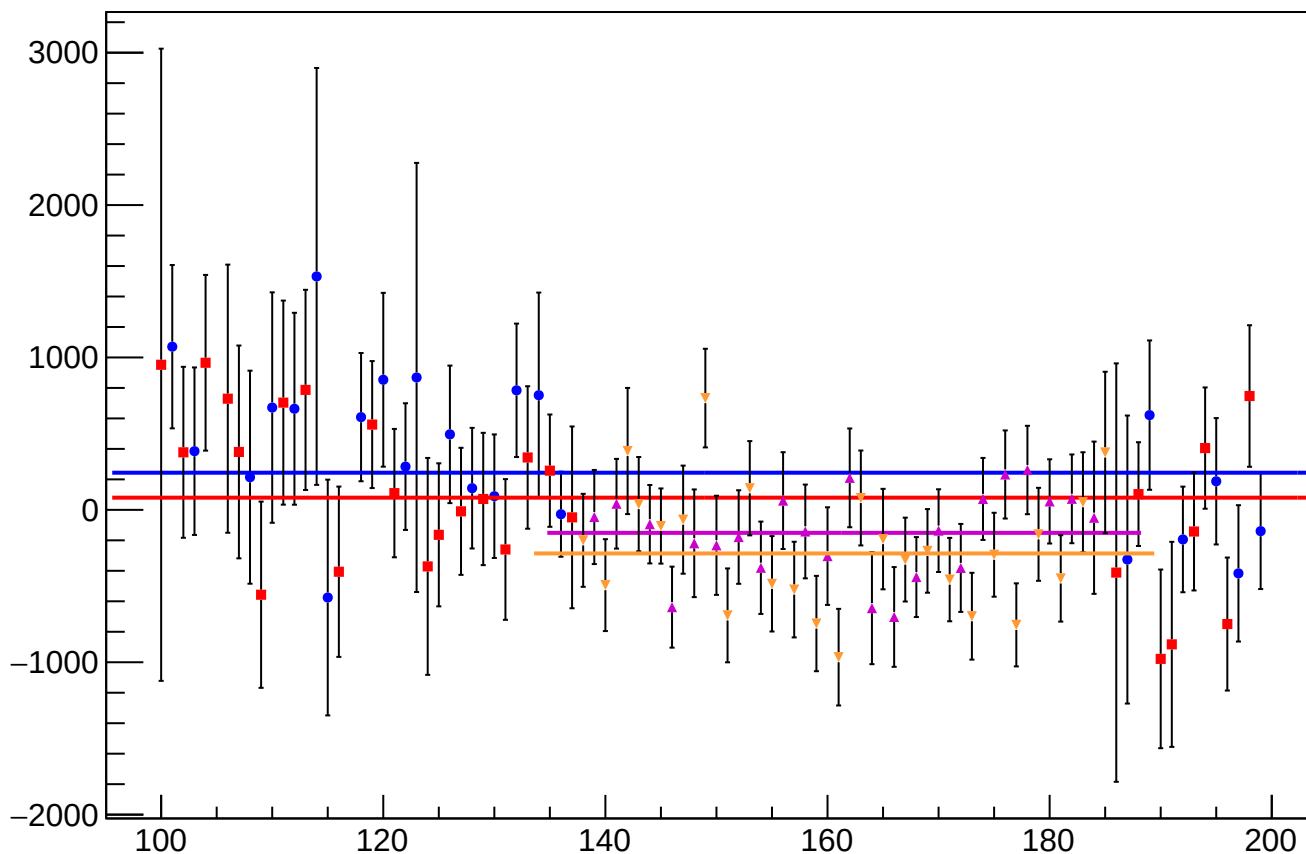
Right: 434.986+/-0.105 χ^2/NDF : 1333165.3/20

In: 341.960+/-0.053 χ^2/NDF : 1476744.8/32

Out: 346.849+/-0.052 χ^2/NDF : 2086876.6/35

All: 344.468+/-0.037 χ^2/NDF : 3567968.0/68

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 243.784 $\pm$ 100.340 χ^2/NDF : 16.7/22

Left Out: -286.030 $\pm$ 61.095 χ^2/NDF :36.6/24

Right Out: 80.026 $\pm$ 97.235 χ^2/NDF : 22.7/26

Left In: -150.920 $\pm$ 62.818 χ^2/NDF :18.7/22

Left: -220.353 $\pm$ 43.797 χ^2/NDF : 57.6/47

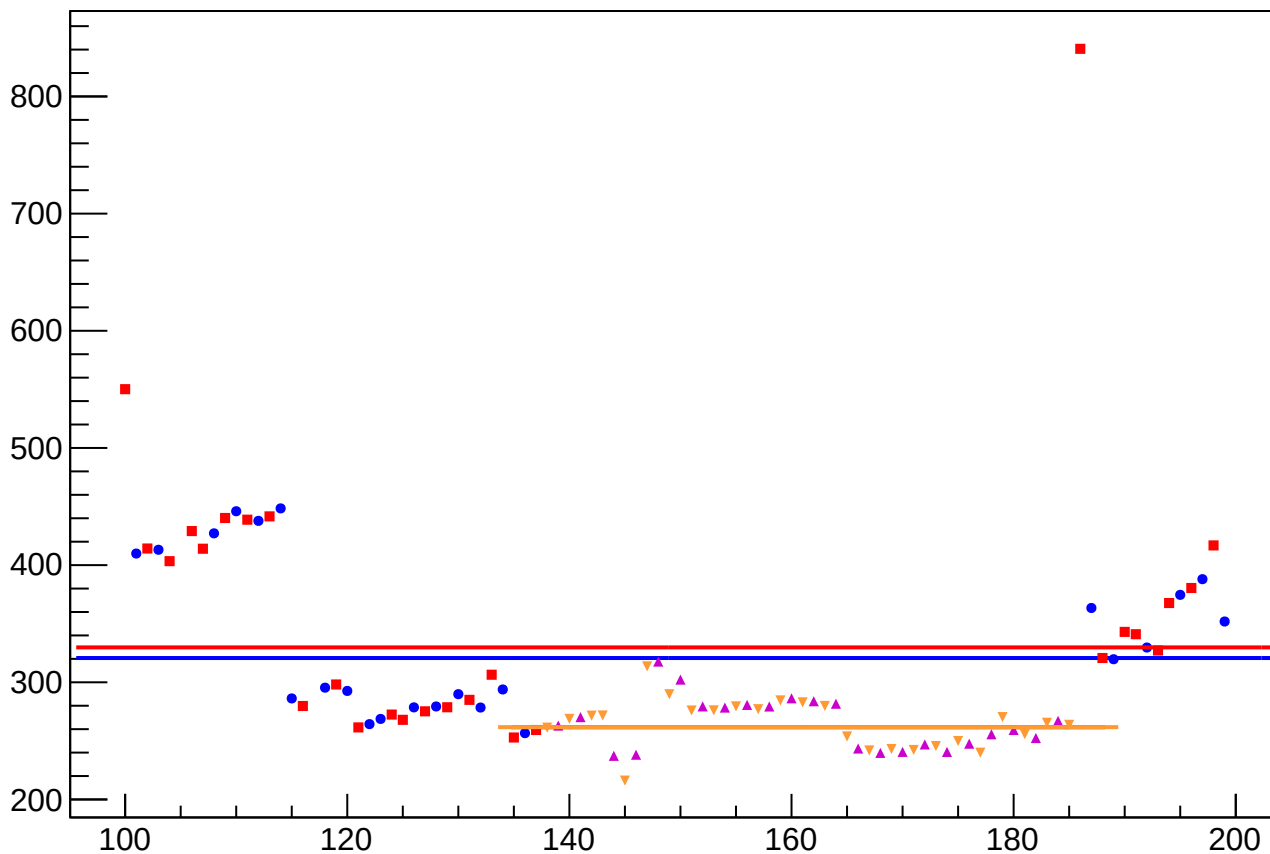
Right: 159.333 $\pm$ 69.827 χ^2/NDF : 40.7/49

In: -39.780 $\pm$ 53.244 χ^2/NDF :46.5/45

Out: -182.420 $\pm$ 51.731 χ^2/NDF :69.4/51

All: -113.156 $\pm$ 37.103 χ^2/NDF : 119.6/97

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: 329.790+/-0.069 χ^2/NDF : 1055292.8/26

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

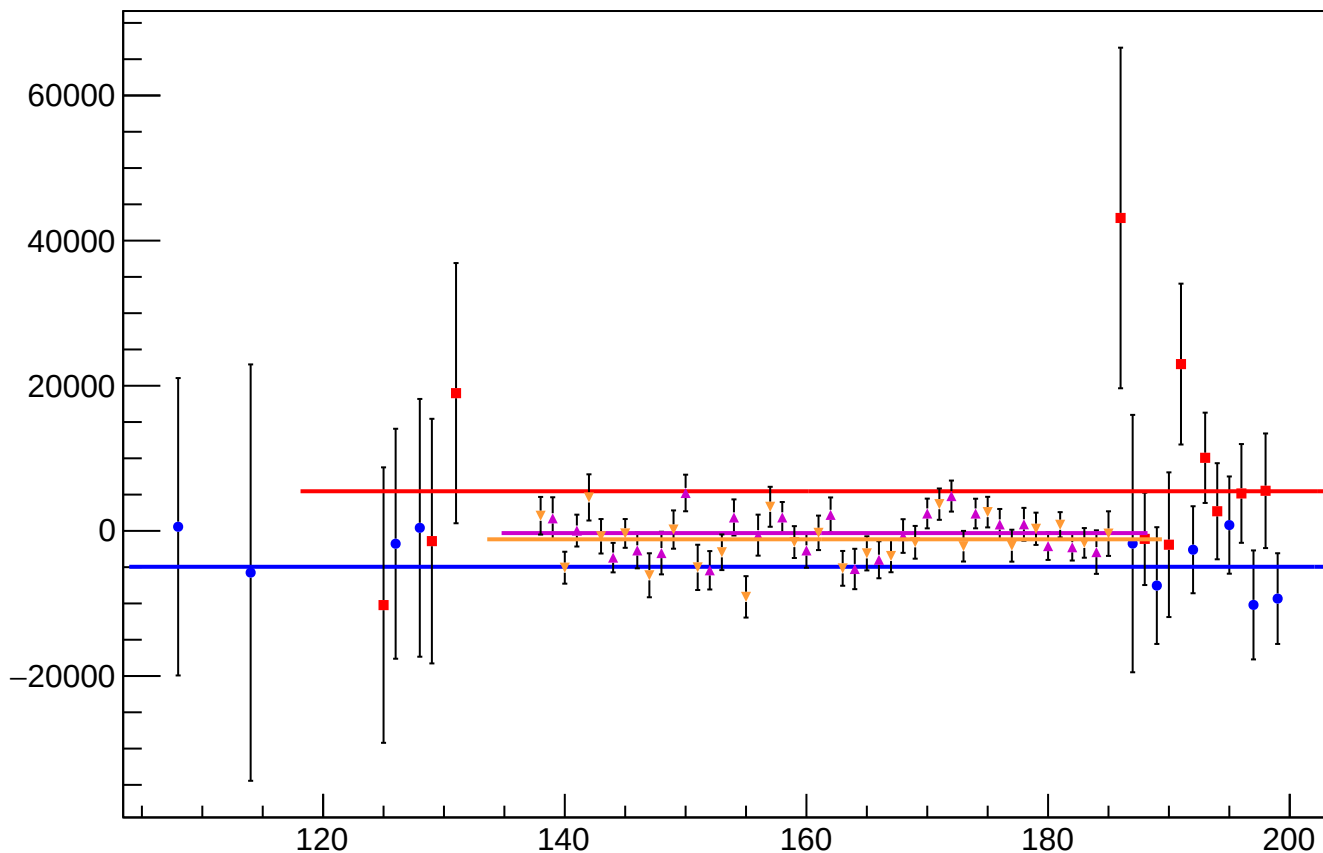
Right: 325.395+/-0.049 χ^2/NDF : 1695276.1/49

In: 278.272+/-0.038 χ^2/NDF : 1357908.2/45

Out: 280.988+/-0.037 χ^2/NDF : 1991208.9/51

All: 279.669+/-0.026 χ^2/NDF : 3351794.1/97

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -4947.745 $\pm$ 2853.498 χ^2 /NDF: 2.2/9

Left Out: -1161.443 $\pm$ 469.036 χ^2 /NDF:38.8/24

Right Out: 5460.671 $\pm$ 2668.968 χ^2 /NDF: 8.8/10

Left In: -304.366 $\pm$ 483.778 χ^2 /NDF:35.4/22

Left: -746.162 $\pm$ 336.750 χ^2 /NDF: 75.7/47

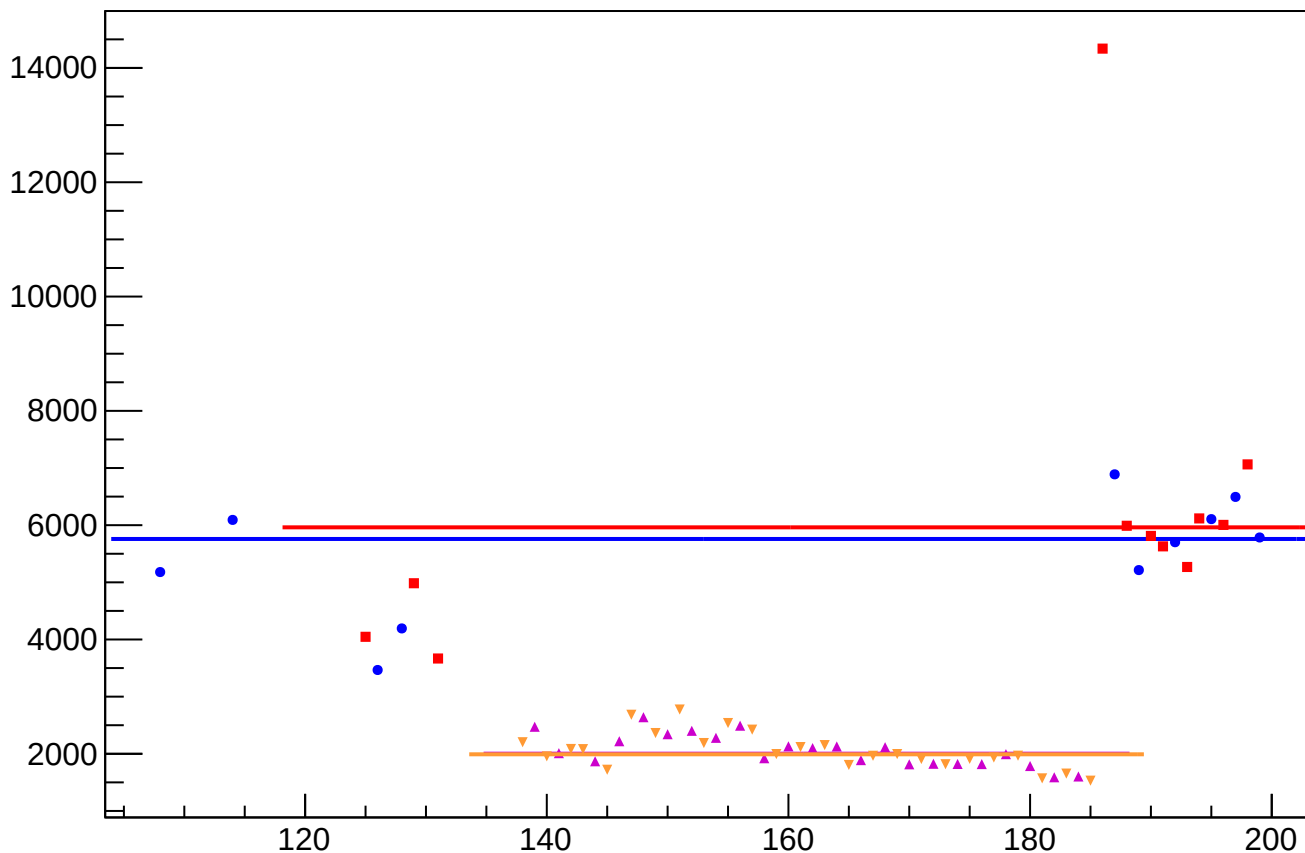
Right: 603.865 $\pm$ 1949.219 χ^2 /NDF: 18.1/20

In: -434.103 $\pm$ 476.972 χ^2 /NDF:40.2/32

Out: -963.056 $\pm$ 461.957 χ^2 /NDF:53.6/35

All: -707.036 $\pm$ 331.834 χ^2 /NDF: 94.3/68

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5758.703 ± 2.018 $\chi^2/\text{NDF}: 101337.0/9$

Left Out: 1991.105 ± 0.332 $\chi^2/\text{NDF}: 726310.6/24$

Right Out: 5962.138 ± 1.887 $\chi^2/\text{NDF}: 381845.2/10$

Left In: 2002.154 ± 0.342 $\chi^2/\text{NDF}: 585947.4/22$

Left: 1996.458 ± 0.238 $\chi^2/\text{NDF}: 1312795.7/47$

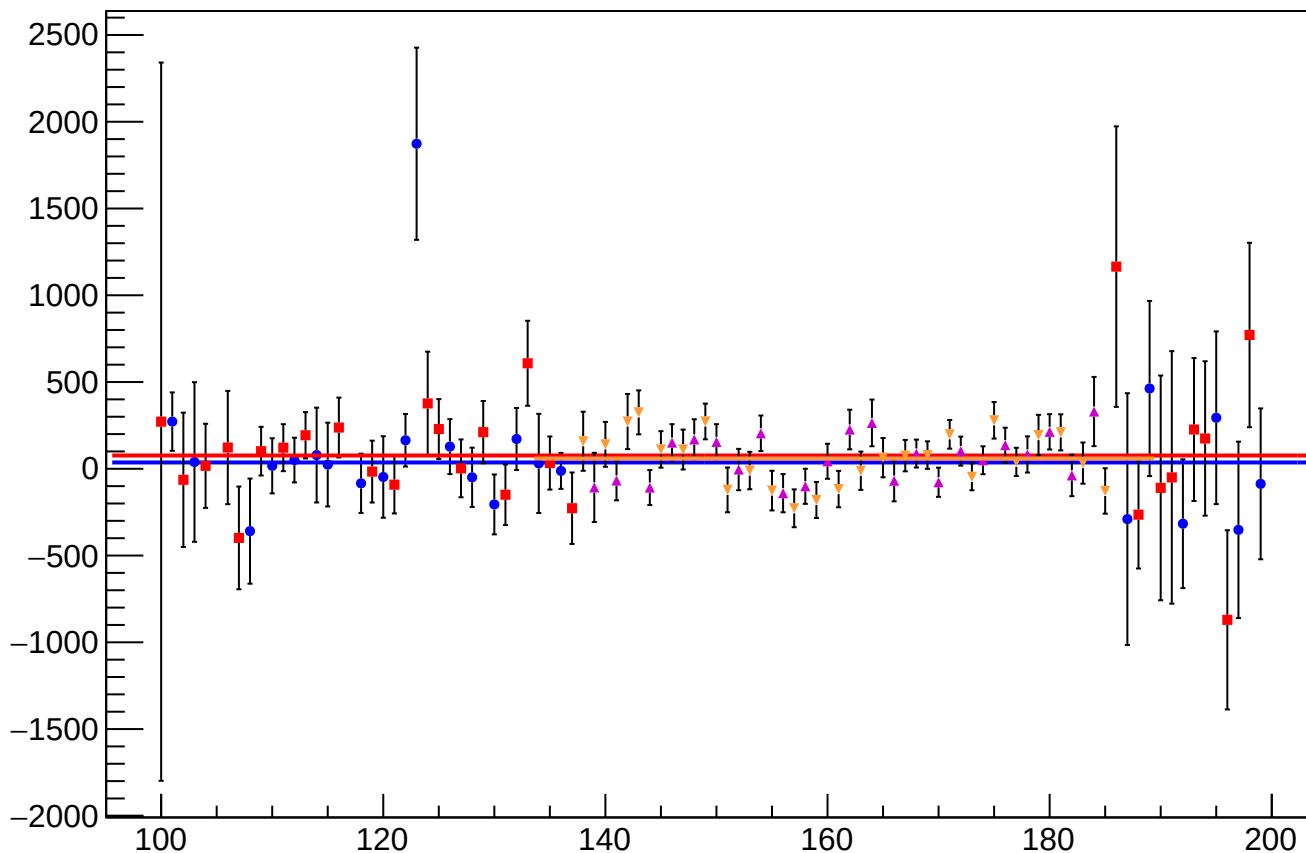
Right: 5867.210 ± 1.378 $\chi^2/\text{NDF}: 488604.2/20$

In: 2107.113 ± 0.337 $\chi^2/\text{NDF}: 4056633.2/32$

Out: 2110.070 ± 0.327 $\chi^2/\text{NDF}: 5402932.6/35$

All: 2108.639 ± 0.235 $\chi^2/\text{NDF}: 9459605.5/68$

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: 76.565 ± 41.887 χ^2/NDF : 25.5/26

Left In: 59.235 ± 21.921 χ^2/NDF : 29.4/22

Left: 59.104 ± 15.216 χ^2/NDF : 76.3/47

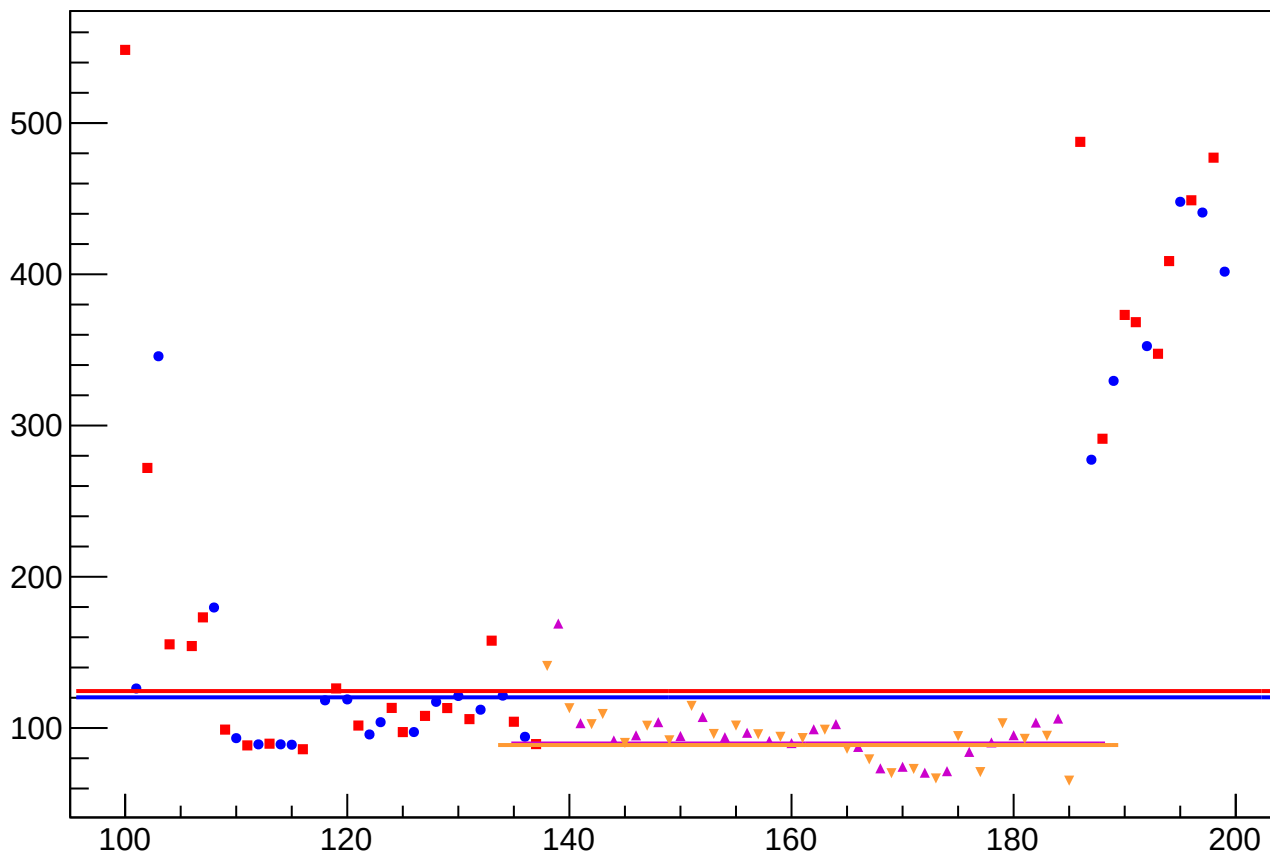
Right: 56.833 ± 29.861 χ^2/NDF : 48.1/49

In: 54.459 ± 19.490 χ^2/NDF : 51.8/45

Out: 62.551 ± 18.871 χ^2/NDF : 72.5/51

All: 58.636 ± 13.557 χ^2/NDF : 124.4/97

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: 124.429 $\pm$ 0.030 χ^2/NDF : 5766693.0/26

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

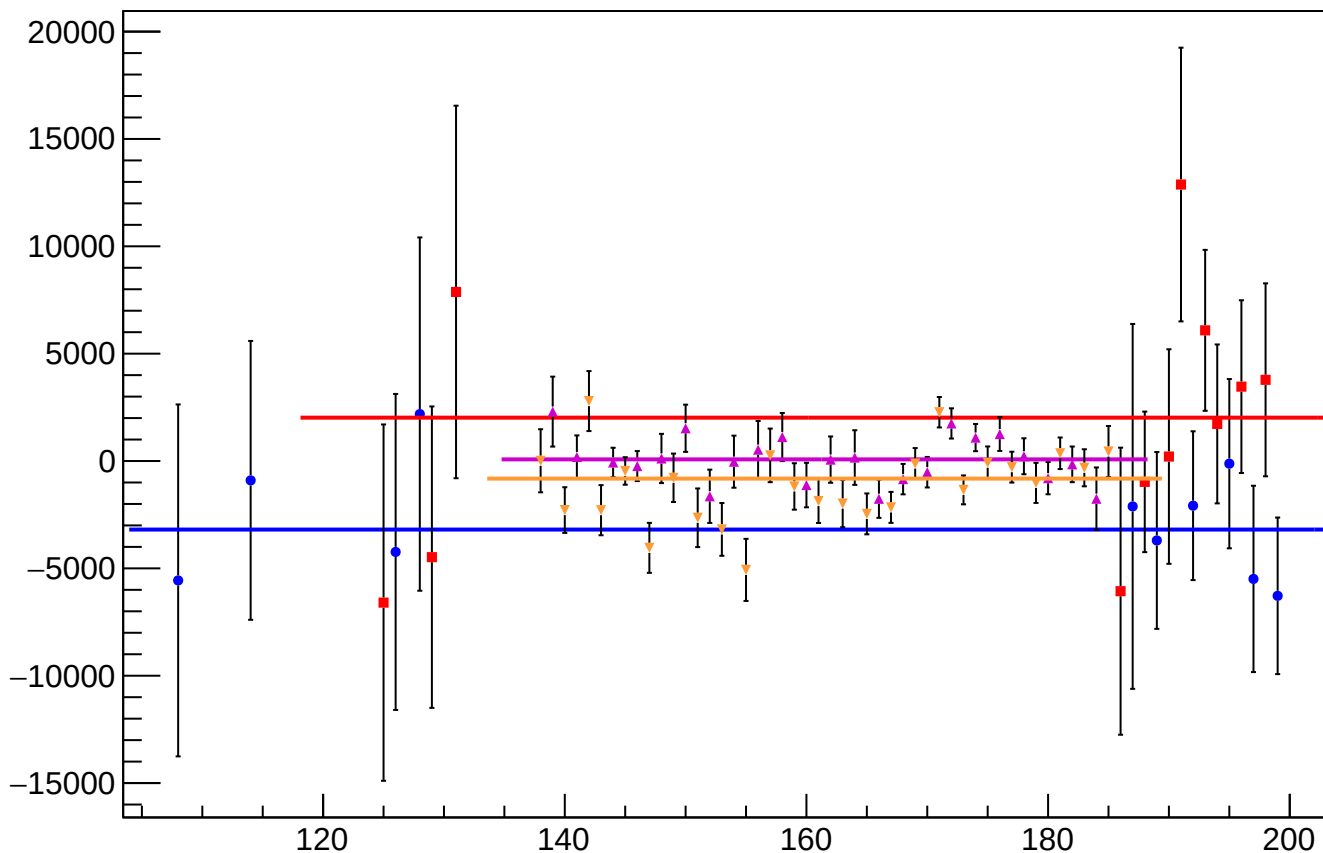
Right: 122.393 $\pm$ 0.021 χ^2/NDF : 10520425.6/49

In: 96.161 $\pm$ 0.014 χ^2/NDF :6442413.9/45

Out: 95.990 $\pm$ 0.013 χ^2/NDF :8002711.2/51

All: 96.073 $\pm$ 0.010 χ^2/NDF : 14445204.5/97

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: 2019.804 ± 1437.365 χ^2/NDF : 9.2/10

Left In: 76.204 ± 186.651 χ^2/NDF : 28.3/22

Left: -376.610 ± 131.202 χ^2/NDF : 108.1/47

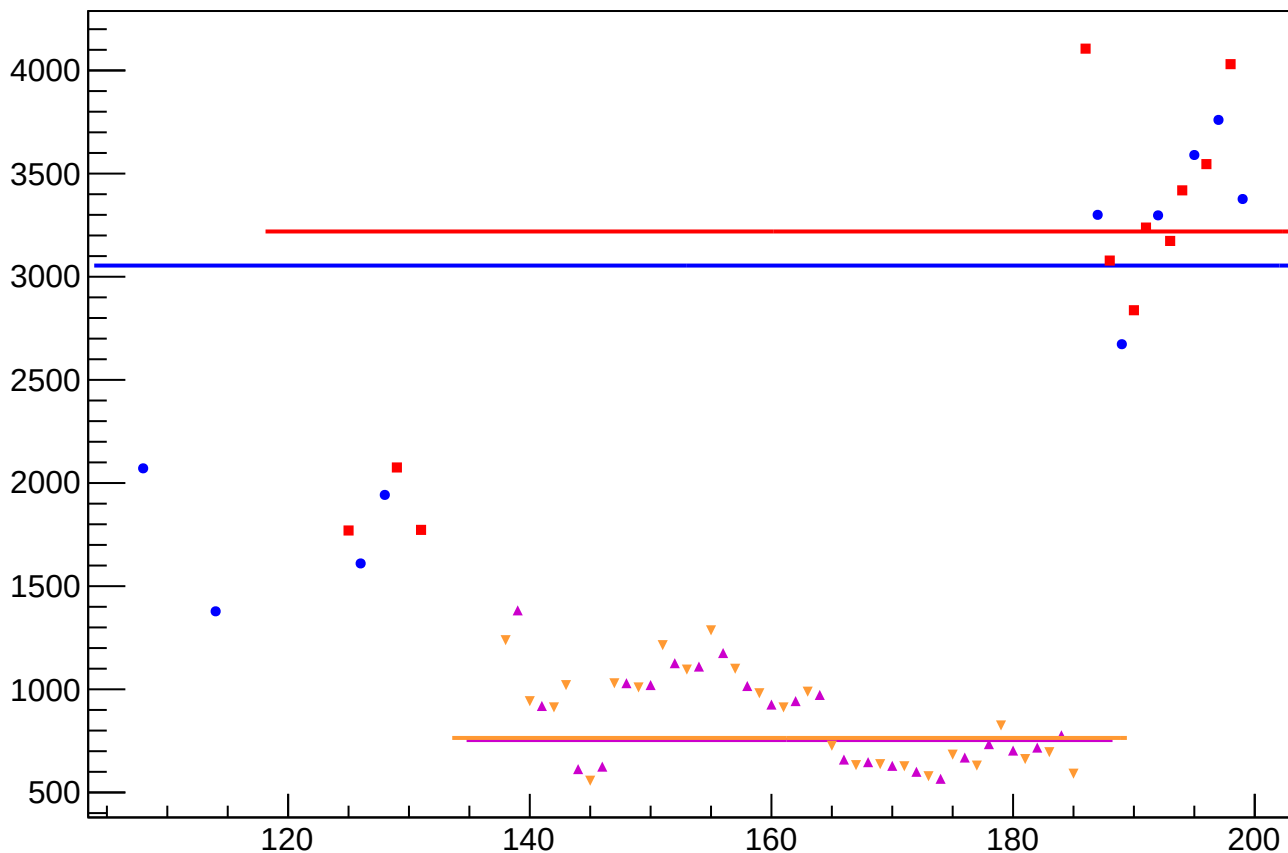
Right: -403.547 ± 1051.395 χ^2/NDF : 17.7/20

In: 29.002 ± 185.298 χ^2/NDF : 35.1/32

Out: -772.882 ± 182.963 χ^2/NDF : 81.2/35

All: -377.023 ± 130.192 χ^2/NDF : 125.8/68

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: 3219.379+/-1.016 χ^2/NDF : 304757.1/10

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

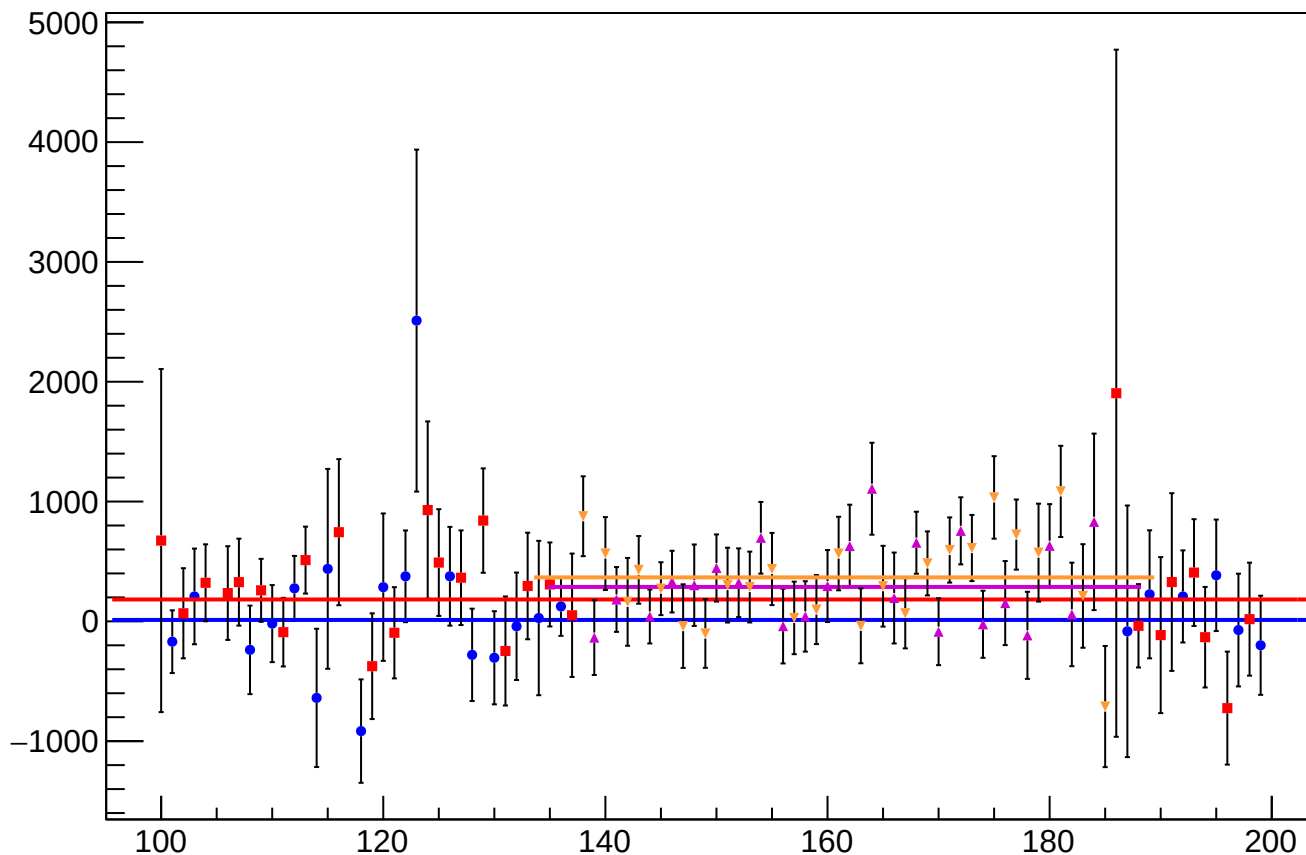
Right: 3142.565+/-0.743 χ^2/NDF : 726780.9/20

In: 787.244+/-0.131 χ^2/NDF : 6809361.8/32

Out: 804.059+/-0.129 χ^2/NDF : 8361109.9/35

All: 795.758+/-0.092 χ^2/NDF : 15178811.1/68

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 11.804 $\pm$ 84.325 χ^2/NDF : 16.1/22

Left Out: 367.028 $\pm$ 61.943 χ^2/NDF : 28.2/24

Right Out: 182.552 $\pm$ 79.501 χ^2/NDF : 16.7/26

Left In: 287.246 $\pm$ 64.141 χ^2/NDF : 23.9/22

Left: 328.527 $\pm$ 44.557 χ^2/NDF : 52.9/47

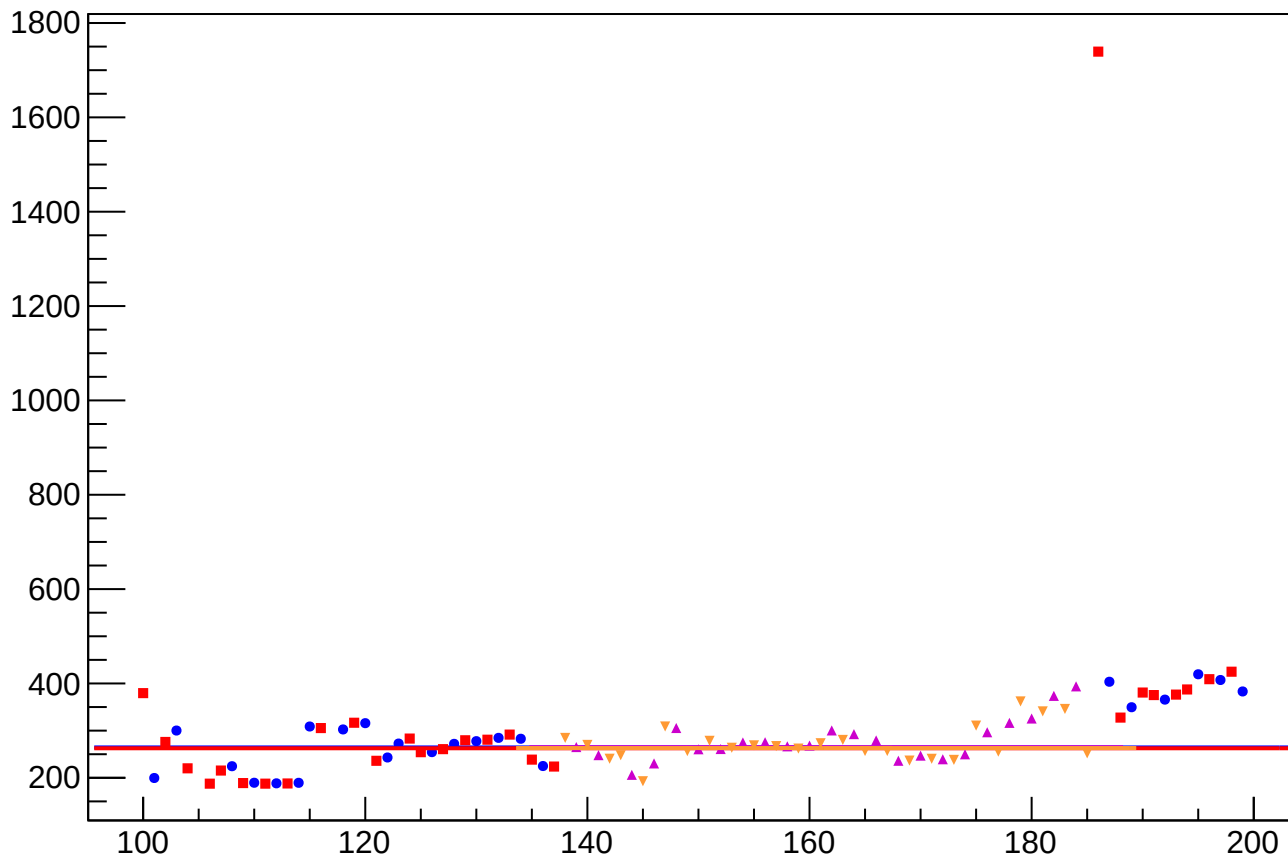
Right: 102.202 $\pm$ 57.846 χ^2/NDF : 34.9/49

In: 186.293 $\pm$ 51.051 χ^2/NDF : 46.7/45

Out: 297.341 $\pm$ 48.862 χ^2/NDF : 48.3/51

All: 244.248 $\pm$ 35.299 χ^2/NDF : 97.5/97

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: 262.590 $\pm$ 0.056 χ^2 /NDF: 2132513.4/26

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

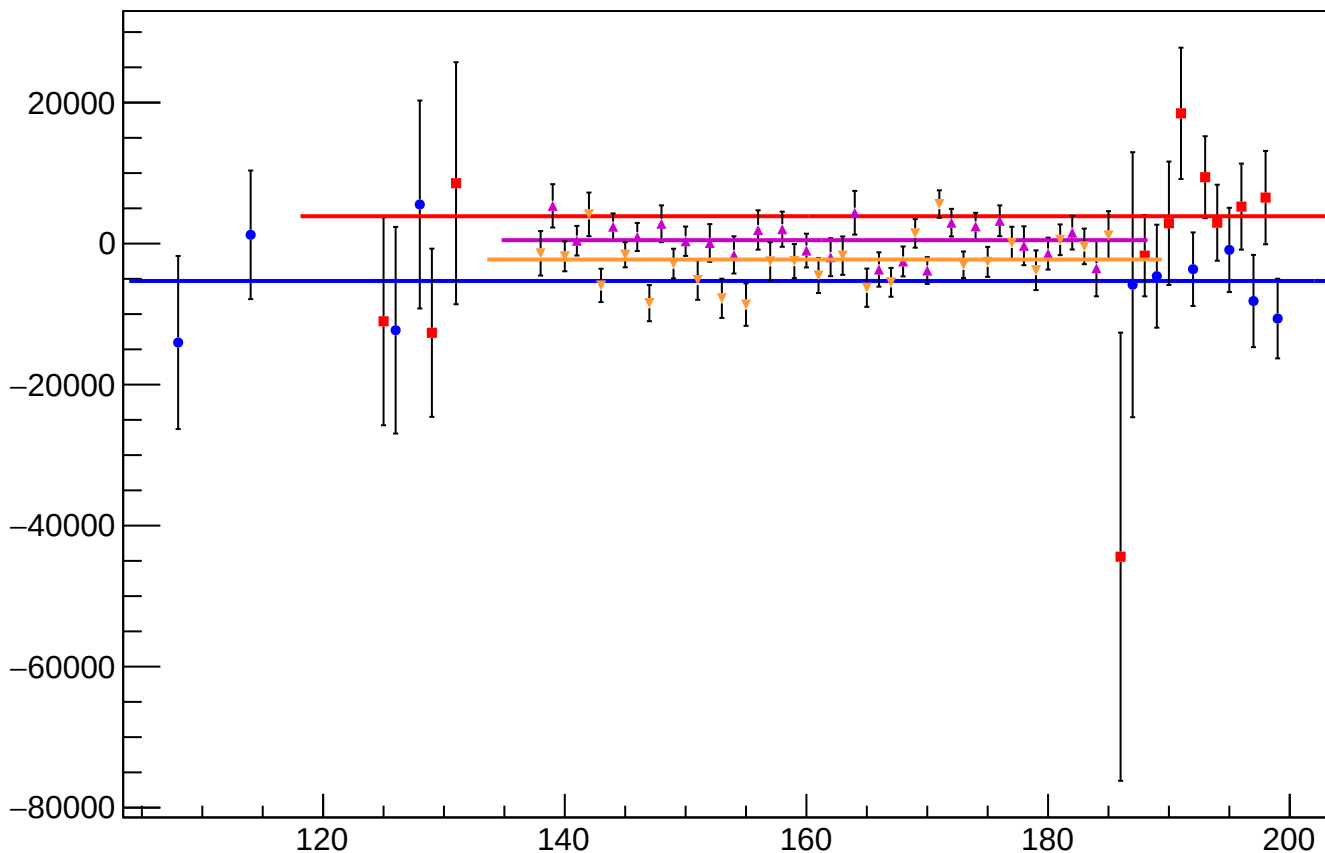
Right: 263.441 $\pm$ 0.041 χ^2 /NDF: 3494167.0/49

In: 264.730 $\pm$ 0.036 χ^2 /NDF: 1970241.2/45

Out: 262.909 $\pm$ 0.035 χ^2 /NDF: 2774791.1/51

All: 263.780 $\pm$ 0.025 χ^2 /NDF: 4746360.7/97

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -5298.053 $\pm$ 2432.498 χ^2 /NDF: 3.5/9

Left Out: -2260.196 $\pm$ 475.336 χ^2 /NDF:52.3/24

Right Out: 3880.365 $\pm$ 2329.407 χ^2 /NDF: 9.9/10

Left In: 485.590 $\pm$ 487.465 χ^2 /NDF:24.8/22

Left: -921.890 $\pm$ 340.321 χ^2 /NDF: 93.4/47

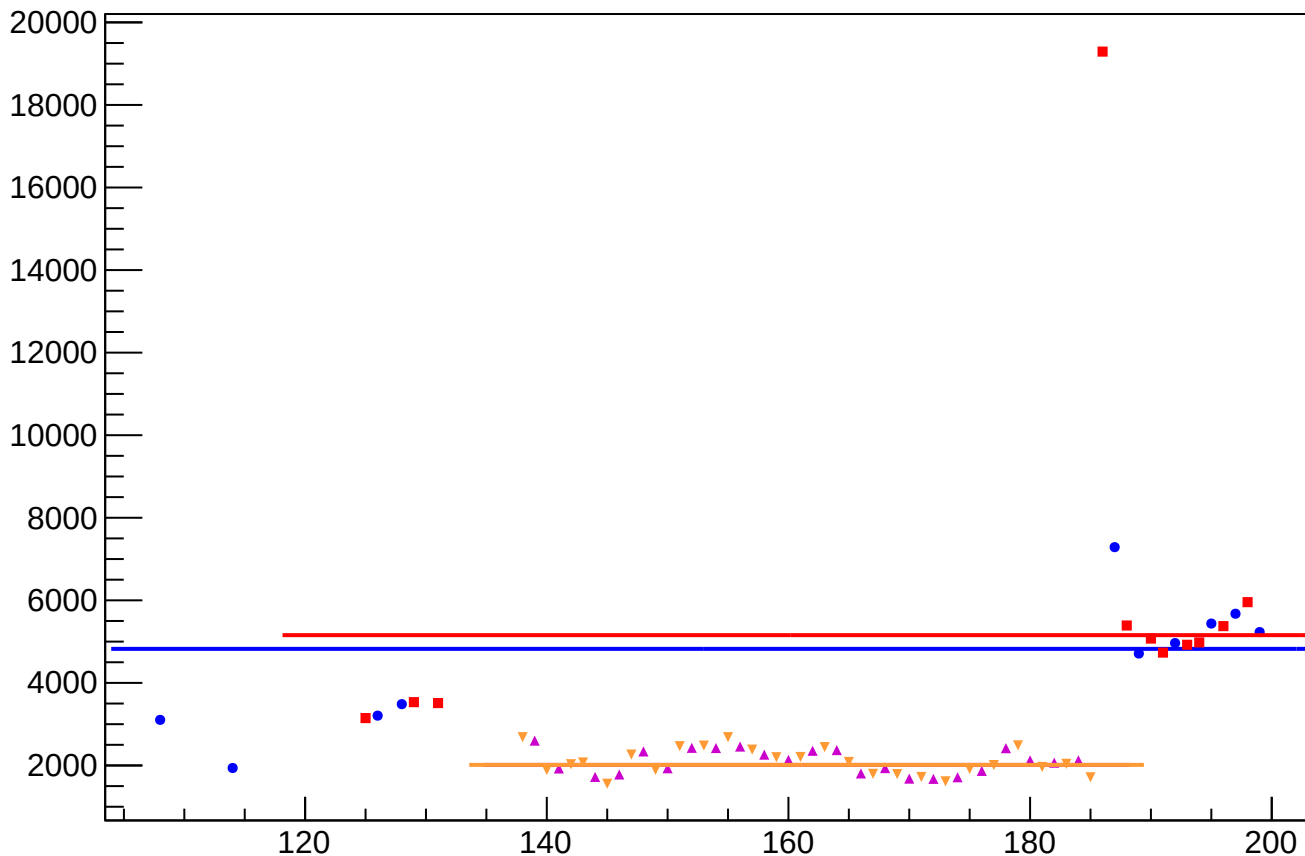
Right: -510.232 $\pm$ 1682.405 χ^2 /NDF: 20.8/20

In: 262.292 $\pm$ 477.963 χ^2 /NDF:33.7/32

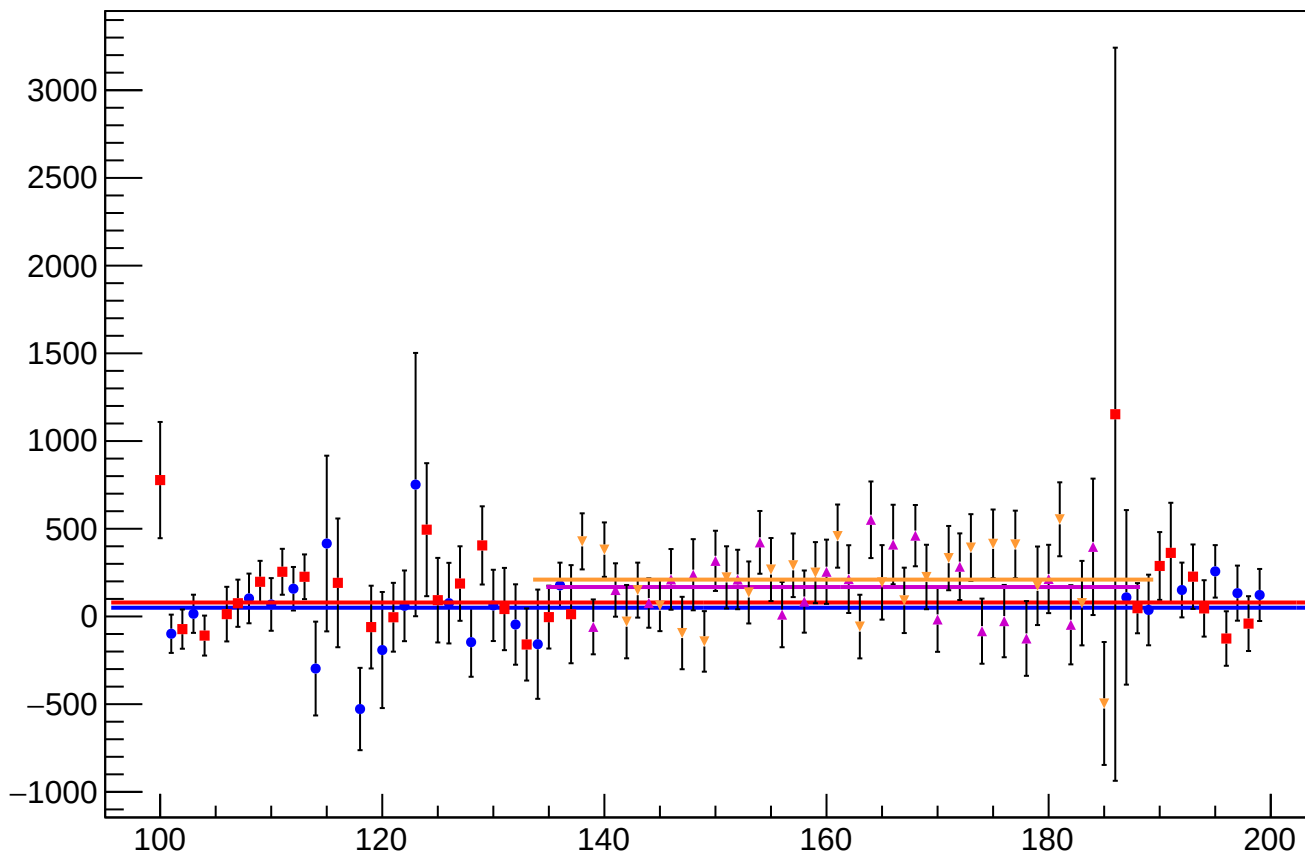
Out: -2014.725 $\pm$ 465.738 χ^2 /NDF:68.9/35

All: -905.708 $\pm$ 333.565 χ^2 /NDF: 114.2/68

asym_sam4_correction_rms vs Slug, Sign Corrected



reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 49.757 $\pm$ 36.332 χ^2 /NDF: 18.0/22

Left Out: 210.086 $\pm$ 37.093 χ^2 /NDF:27.5/24

Right Out: 79.577 $\pm$ 33.424 χ^2 /NDF: 24.6/26

Left In: 167.822 $\pm$ 38.718 χ^2 /NDF:21.1/22

Left: 189.859 $\pm$ 26.785 χ^2 /NDF: 49.3/47

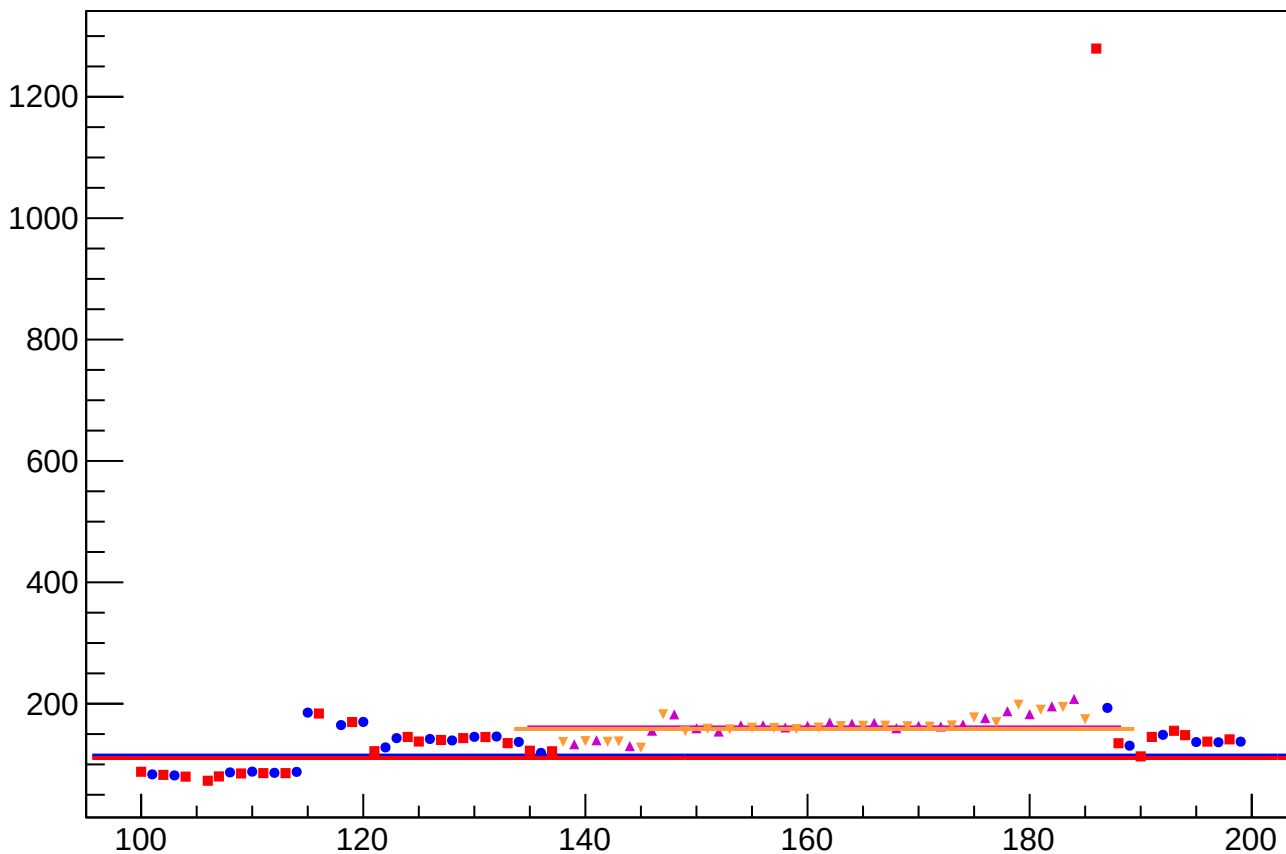
Right: 65.908 $\pm$ 24.598 χ^2 /NDF: 43.0/49

In: 105.039 $\pm$ 26.494 χ^2 /NDF:44.1/45

Out: 138.059 $\pm$ 24.830 χ^2 /NDF:59.0/51

All: 122.618 $\pm$ 18.117 χ^2 /NDF: 103.9/97

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: 110.547 $\pm$ 0.024 χ^2 /NDF: 2235991.4/26

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

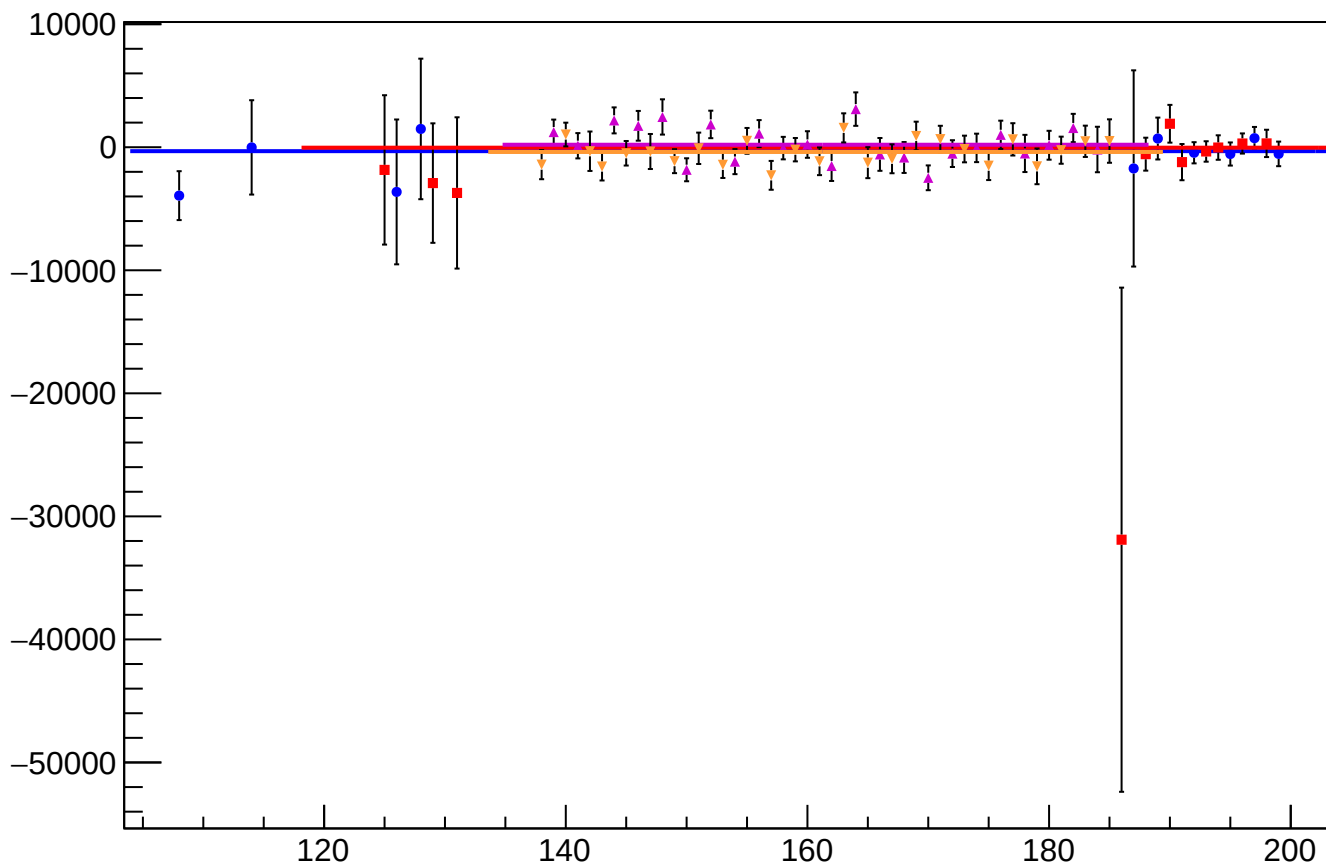
Right: 112.376 $\pm$ 0.017 χ^2 /NDF: 3501296.2/49

In: 136.268 $\pm$ 0.019 χ^2 /NDF: 3160108.3/45

Out: 132.008 $\pm$ 0.018 χ^2 /NDF: 4510373.0/51

All: 134.000 $\pm$ 0.013 χ^2 /NDF: 7698001.7/97

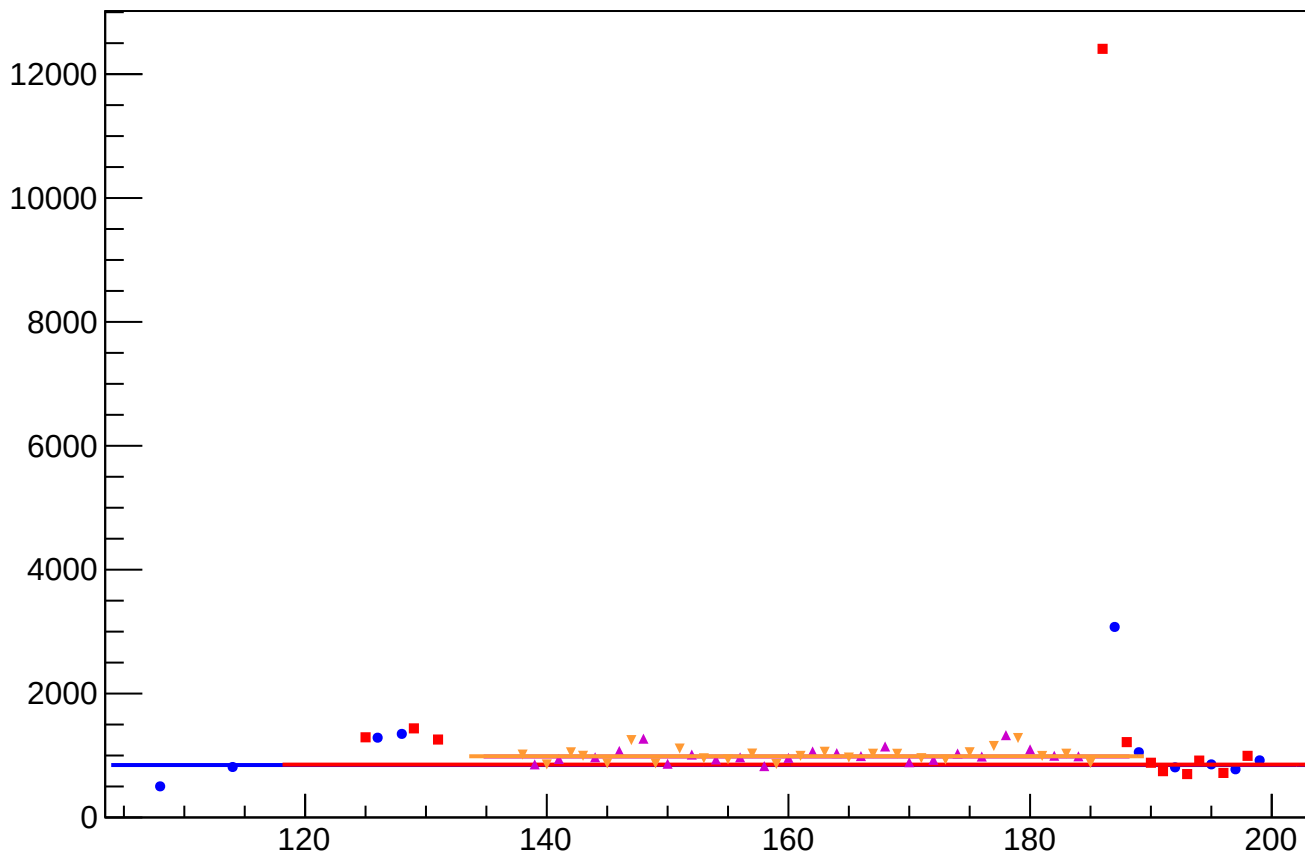
asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -319.537 ± 429.447 $\chi^2/\text{NDF}: 5.6/9$
 Left Out: -385.018 ± 231.833 $\chi^2/\text{NDF}: 18.1/24$
 Right Out: -37.059 ± 398.260 $\chi^2/\text{NDF}: 6.0/10$
 Left In: 202.234 ± 237.460 $\chi^2/\text{NDF}: 35.5/22$

Left: -98.432 ± 165.884 $\chi^2/\text{NDF}: 56.7/47$
 Right: -167.670 ± 292.016 $\chi^2/\text{NDF}: 11.8/20$
 In: 80.059 ± 207.807 $\chi^2/\text{NDF}: 42.2/32$
 Out: -296.952 ± 200.359 $\chi^2/\text{NDF}: 24.7/35$
 All: -115.324 ± 144.236 $\chi^2/\text{NDF}: 68.6/68$

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: 853.147 ± 0.282 χ^2/NDF : 1005325.7/10

Left In: 983.893 ± 0.168 χ^2/NDF : 416265.7/22

Left: 985.929 ± 0.117 χ^2/NDF : 793511.2/47

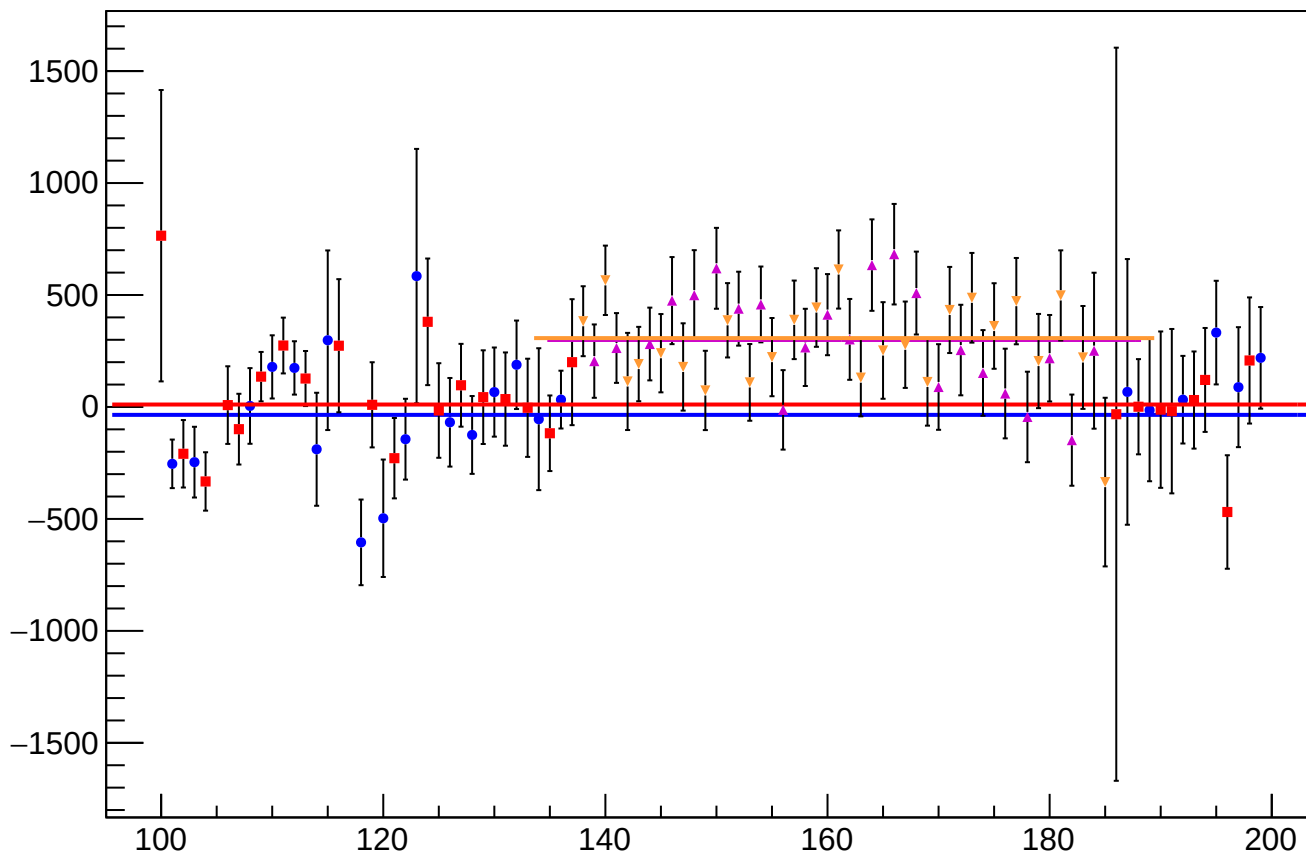
Right: 849.974 ± 0.206 χ^2/NDF : 1305204.7/20

In: 951.671 ± 0.147 χ^2/NDF : 873139.5/32

Out: 953.771 ± 0.142 χ^2/NDF : 1553222.3/35

All: 952.760 ± 0.102 χ^2/NDF : 2426467.7/68

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: 10.904 ± 36.613 $\chi^2/\text{NDF}: 27.4/26$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

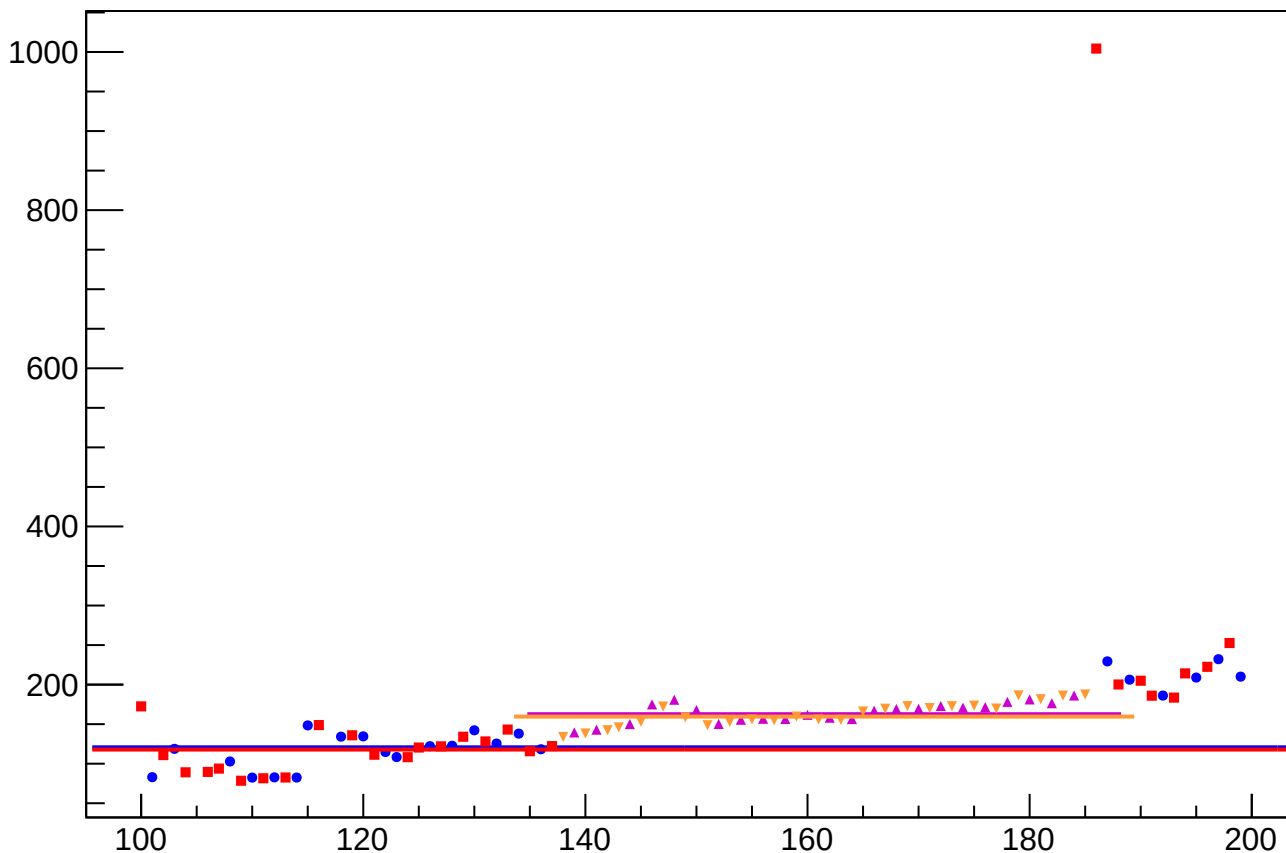
Right: -10.592 ± 26.776 $\chi^2/\text{NDF}: 60.3/49$

In: 133.010 ± 27.671 $\chi^2/\text{NDF}: 97.2/45$

Out: 156.527 ± 26.121 $\chi^2/\text{NDF}: 80.3/51$

All: 145.445 ± 18.995 $\chi^2/\text{NDF}: 178.0/97$

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: 117.892 $\pm$ 0.026 χ^2 /NDF: 3300903.0/26

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

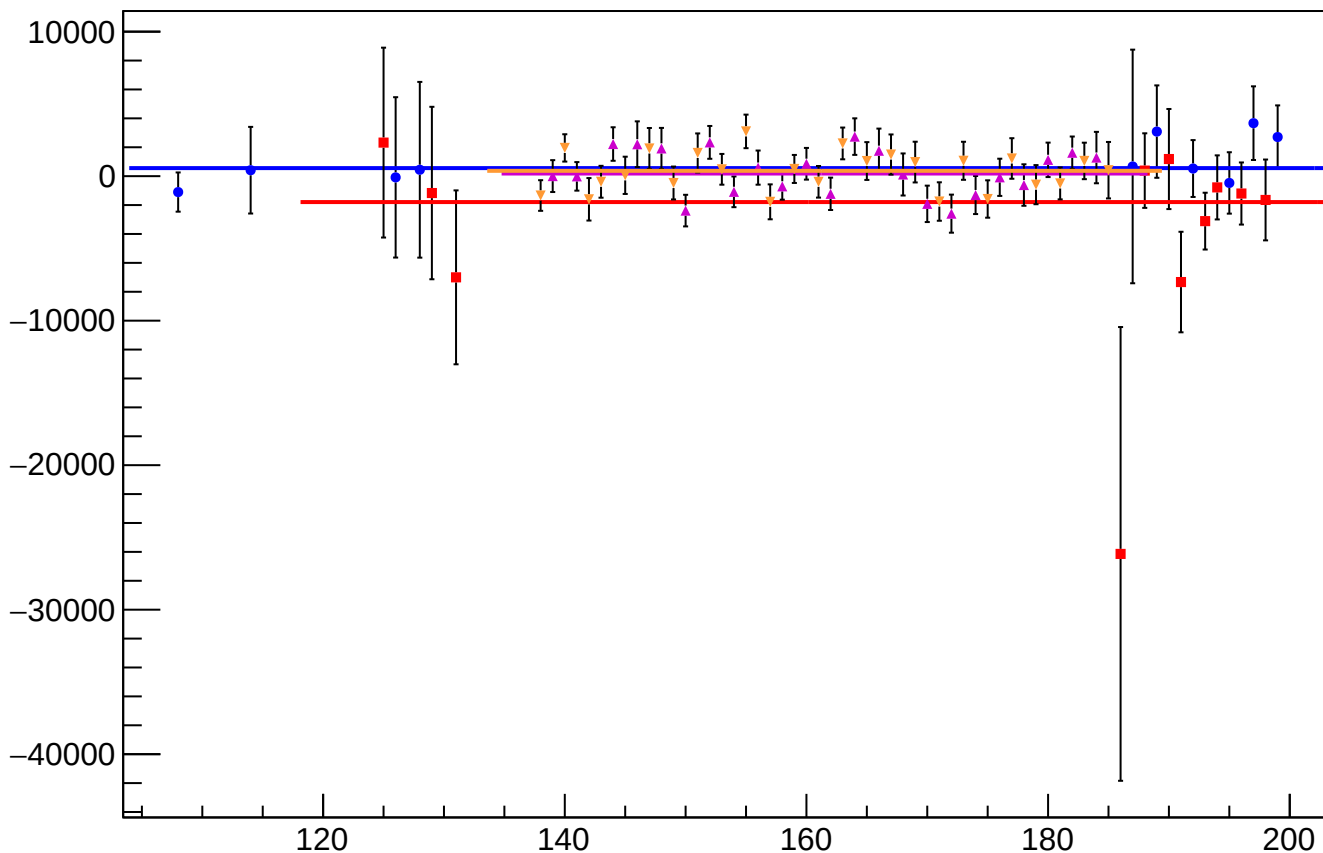
Right: 119.206 $\pm$ 0.019 χ^2 /NDF: 5410548.5/49

In: 141.795 $\pm$ 0.020 χ^2 /NDF: 3449472.3/45

Out: 138.355 $\pm$ 0.018 χ^2 /NDF: 4861090.9/51

All: 139.976 $\pm$ 0.013 χ^2 /NDF: 8326907.1/97

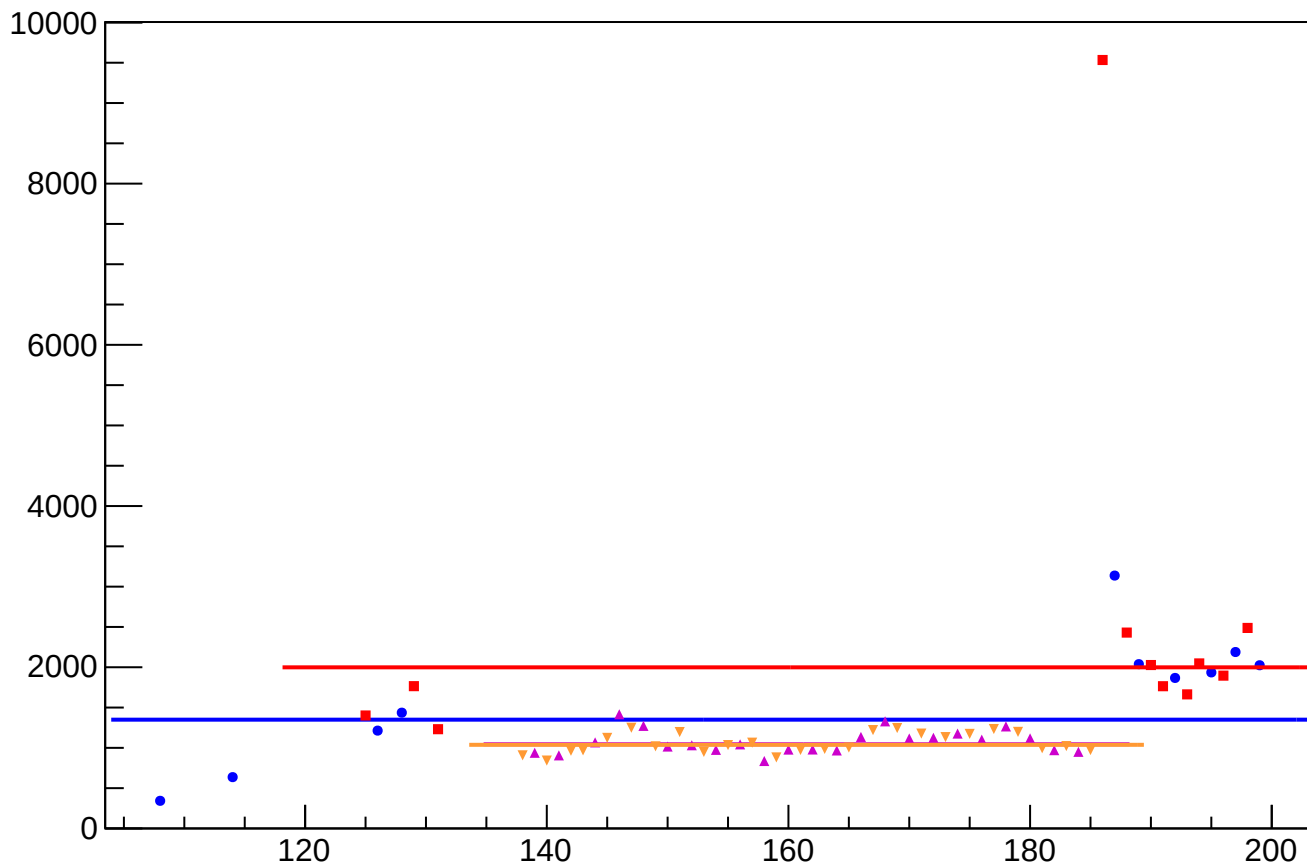
asym_sam6_correction_mean vs Slug, Sign Corrected



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: -1792.553+/-910.663 χ^2/NDF : 8.3/10
 Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47
 Right: -427.900+/-589.715 χ^2/NDF : 17.0/20
 In: 219.078+/-239.838 χ^2/NDF :41.5/32
 Out: 225.680+/-235.254 χ^2/NDF :44.0/35
 All: 222.443+/-167.947 χ^2/NDF : 85.5/68

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1349.680 $\pm$ 0.547 χ^2 /NDF: 2104386.0/9

Left Out: 1037.689 $\pm$ 0.172 χ^2 /NDF: 494981.4/24

Right Out: 1998.875 $\pm$ 0.644 χ^2 /NDF: 702764.5/10

Left In: 1044.746 $\pm$ 0.178 χ^2 /NDF: 543315.5/22

Left: 1041.093 $\pm$ 0.124 χ^2 /NDF: 1039107.0/47

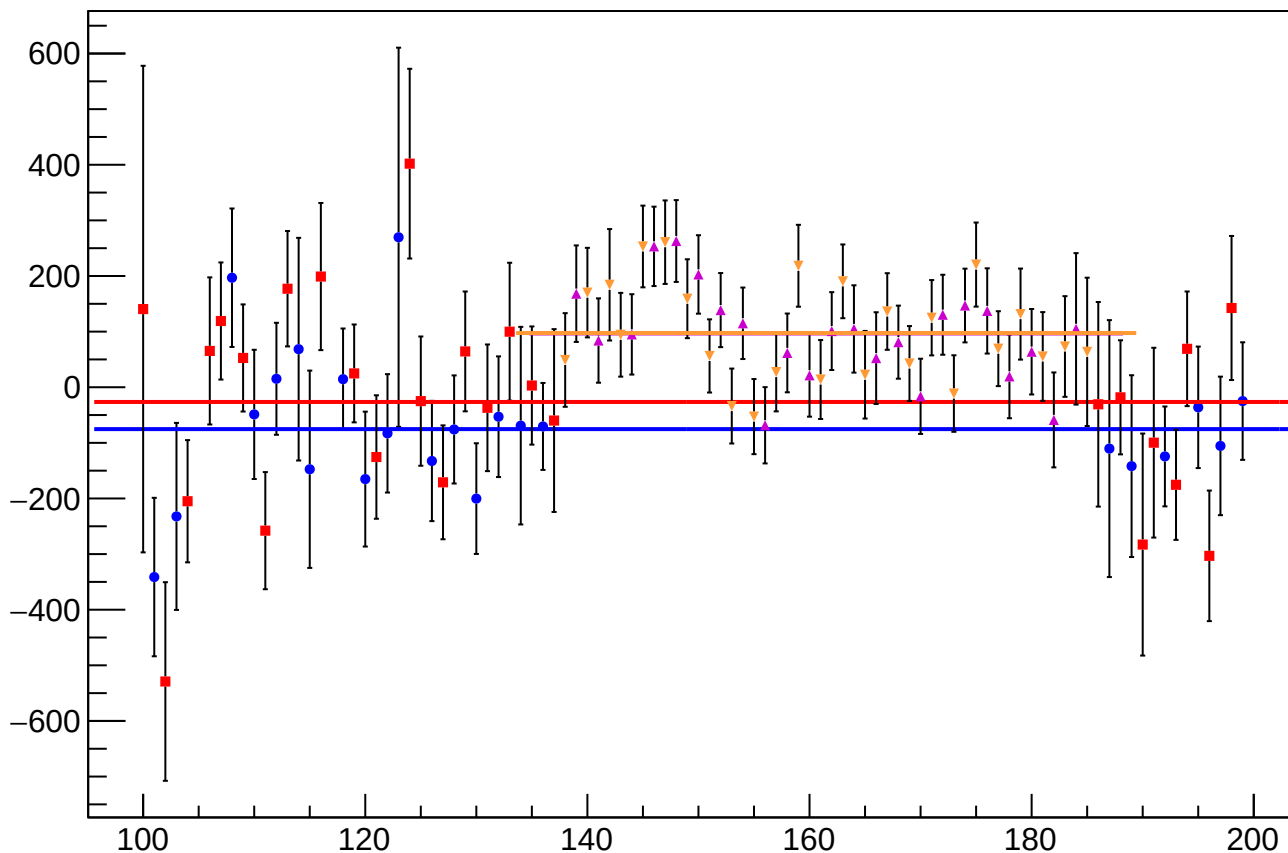
Right: 1621.915 $\pm$ 0.417 χ^2 /NDF: 3397331.3/20

In: 1074.033 $\pm$ 0.170 χ^2 /NDF: 2928390.6/32

Out: 1101.835 $\pm$ 0.166 χ^2 /NDF: 3277126.9/35

All: 1088.202 $\pm$ 0.119 χ^2 /NDF: 6219214.2/68

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -75.291 ± 24.582 χ^2/NDF : 16.0/22

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -26.478 ± 22.969 χ^2/NDF : 48.9/26

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

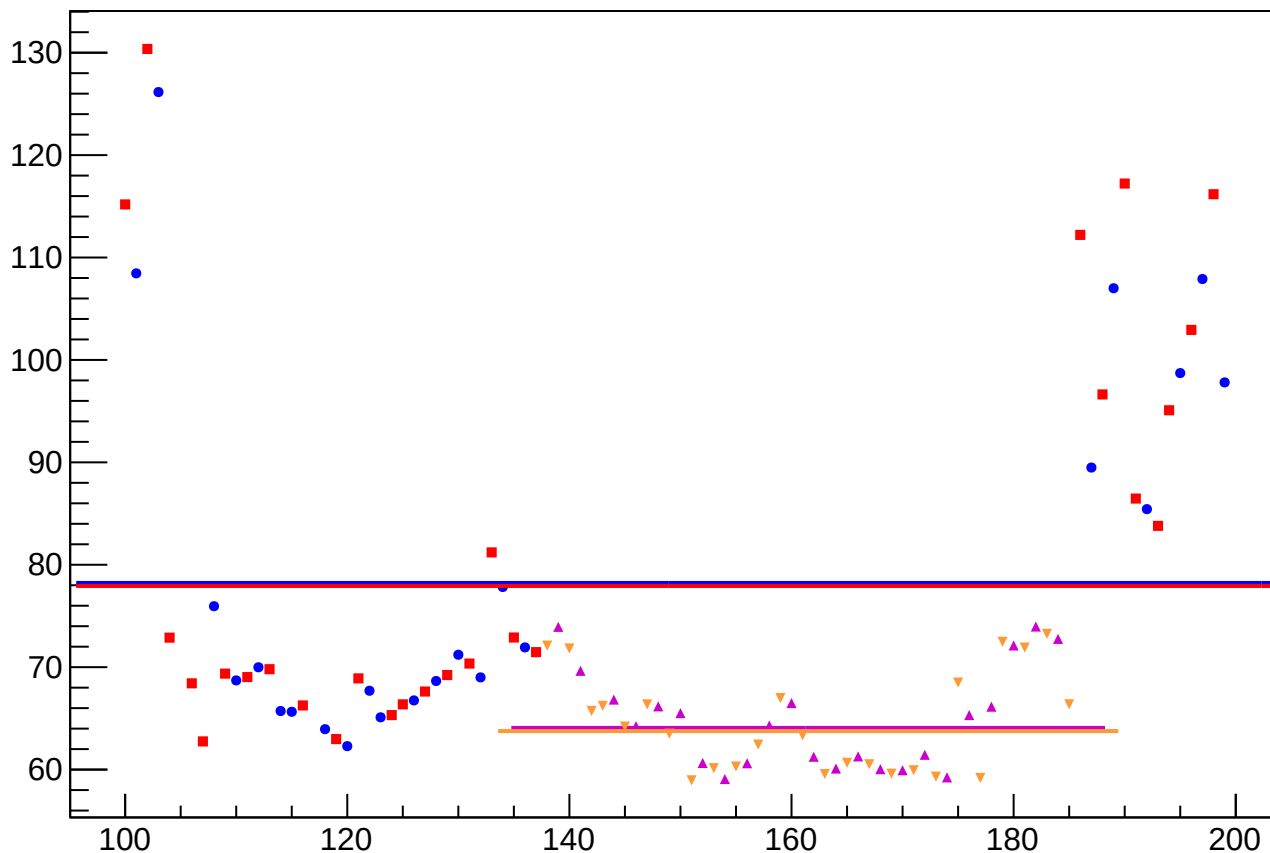
Right: -49.231 ± 16.783 χ^2/NDF : 67.0/49

In: 48.365 ± 13.032 χ^2/NDF : 80.5/45

Out: 60.813 ± 12.488 χ^2/NDF : 105.4/51

All: 54.854 ± 9.017 χ^2/NDF : 186.3/97

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 78.224 $\pm$ 0.017 χ^2 /NDF: 815669.2/22

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 77.929 $\pm$ 0.016 χ^2 /NDF: 1000006.9/26

Left In: 64.069 $\pm$ 0.011 χ^2 /NDF: 164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47

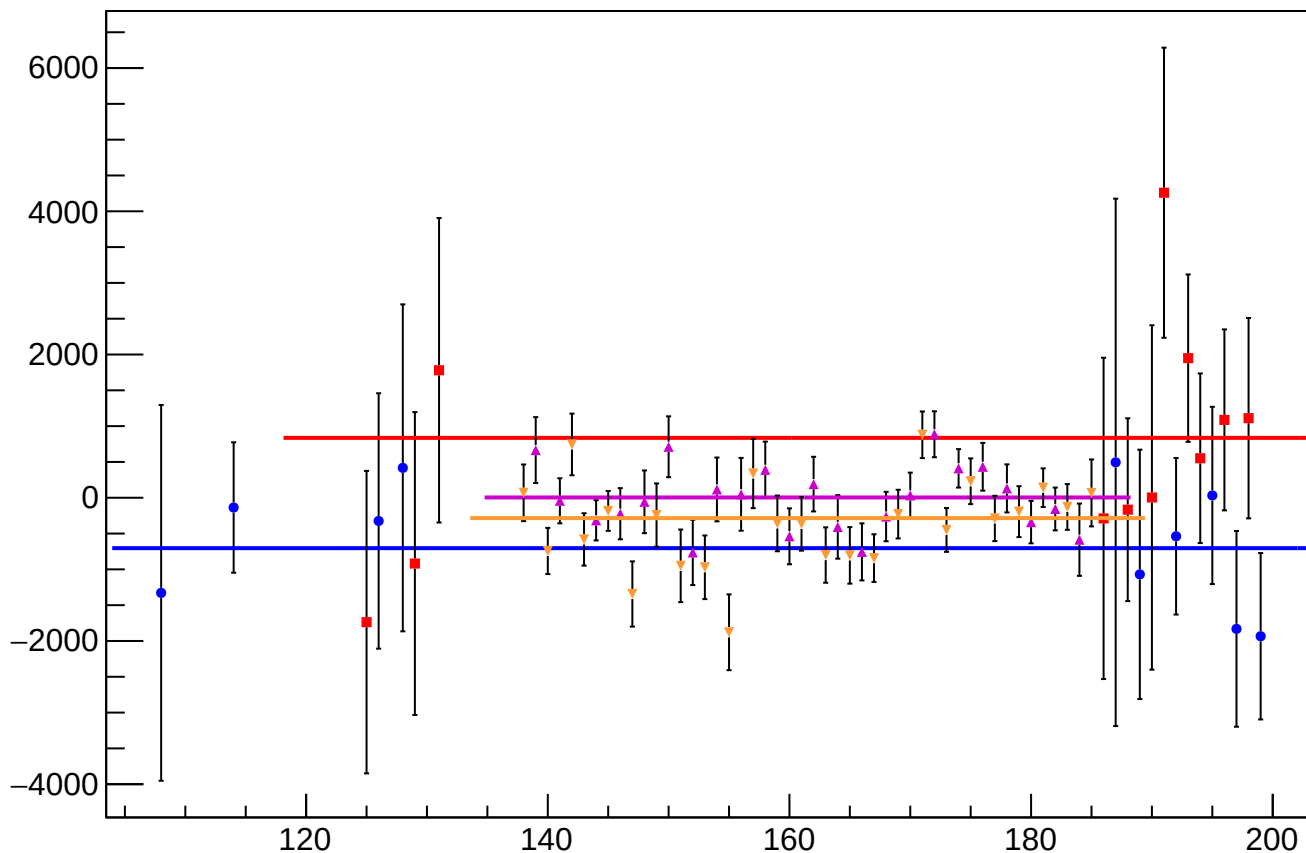
Right: 78.067 $\pm$ 0.012 χ^2 /NDF: 1815829.8/49

In: 68.047 $\pm$ 0.009 χ^2 /NDF: 1457170.7/45

Out: 67.949 $\pm$ 0.009 χ^2 /NDF: 1728837.7/51

All: 67.996 $\pm$ 0.006 χ^2 /NDF: 3186066.9/97

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -703.828 ± 445.996 χ^2/NDF : 3.1/9

Left Out: -284.304 ± 72.732 χ^2/NDF : 55.1/24

Right Out: 836.334 ± 472.426 χ^2/NDF : 7.3/10

Left In: 4.037 ± 75.084 χ^2/NDF : 32.4/22

Left: -144.720 ± 52.241 χ^2/NDF : 95.0/47

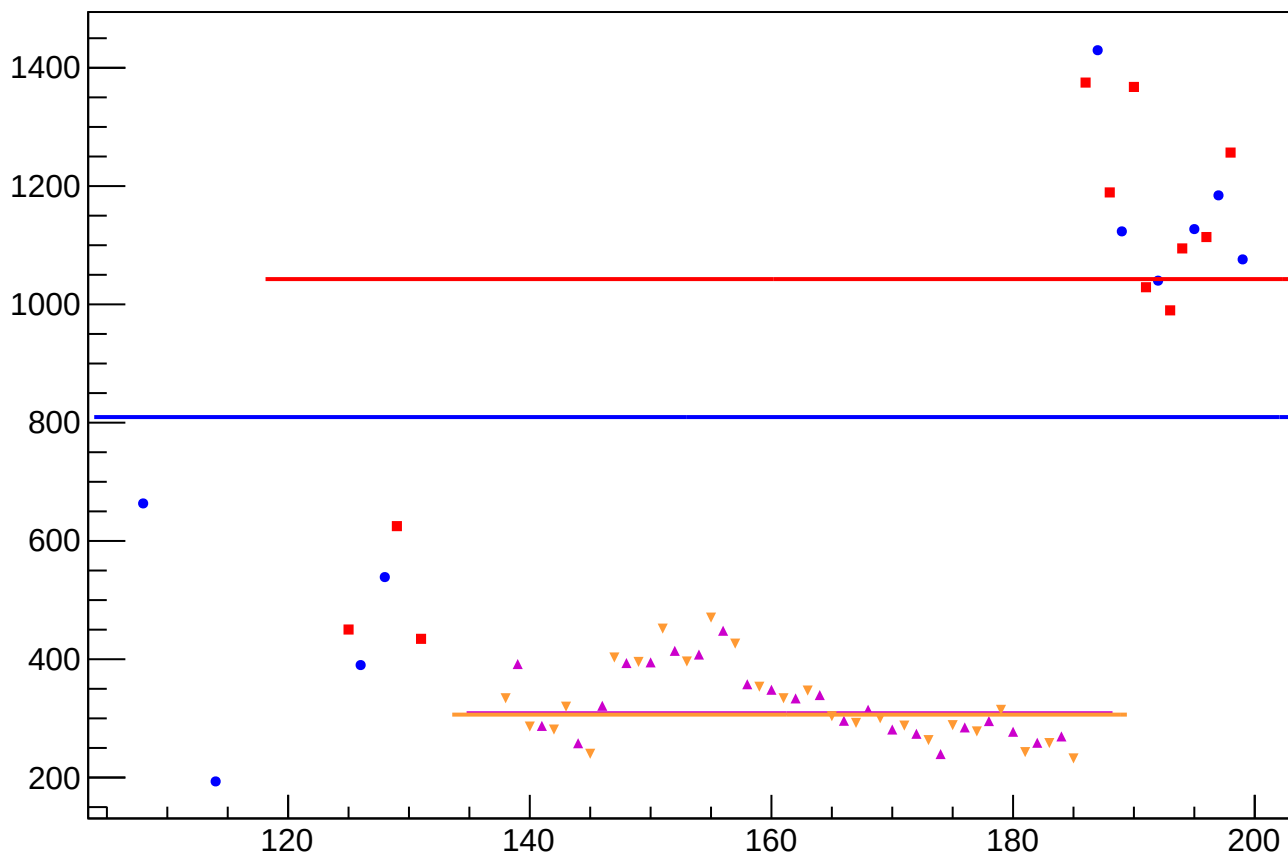
Right: 21.966 ± 324.308 χ^2/NDF : 15.9/20

In: -15.473 ± 74.042 χ^2/NDF : 37.9/32

Out: -258.357 ± 71.885 χ^2/NDF : 67.8/35

All: -140.504 ± 51.576 χ^2/NDF : 111.2/68

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: 1042.747+/-0.334 χ^2/NDF : 567062.5/10

Left In: 308.727+/-0.053 χ^2/NDF :1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

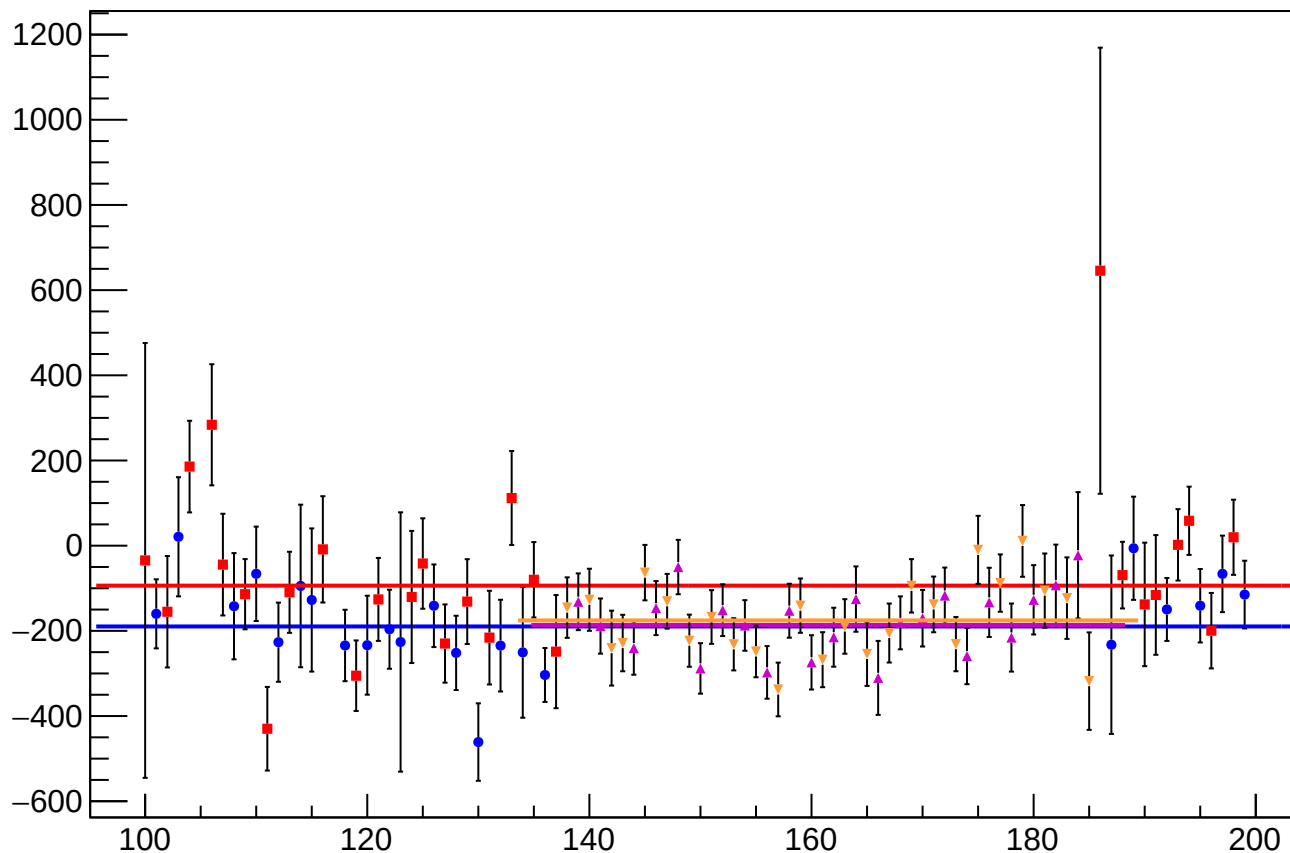
Right: 919.390+/-0.229 χ^2/NDF : 2483865.1/20

In: 322.527+/-0.052 χ^2/NDF :5113339.4/32

Out: 323.413+/-0.051 χ^2/NDF :6529484.2/35

All: 322.983+/-0.036 χ^2/NDF : 11642970.9/68

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: -93.786 ± 20.152 $\chi^2/\text{NDF}: 52.0/26$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

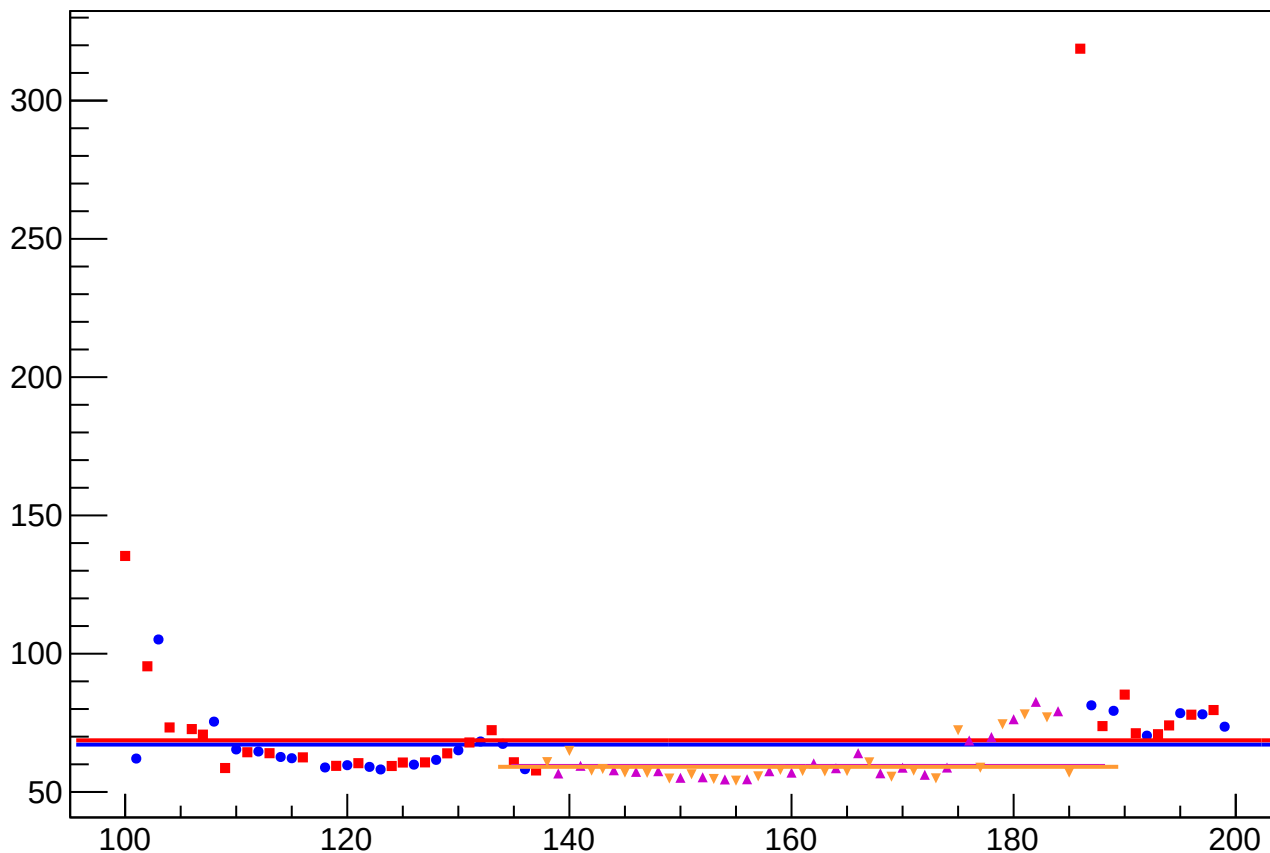
Right: -140.074 ± 14.493 $\chi^2/\text{NDF}: 86.7/49$

In: -187.207 ± 11.803 $\chi^2/\text{NDF}: 47.3/45$

Out: -149.276 ± 11.412 $\chi^2/\text{NDF}: 97.8/51$

All: -167.602 ± 8.204 $\chi^2/\text{NDF}: 150.5/97$

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: 68.683 $\pm$ 0.014 χ^2 /NDF: 830570.9/26

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

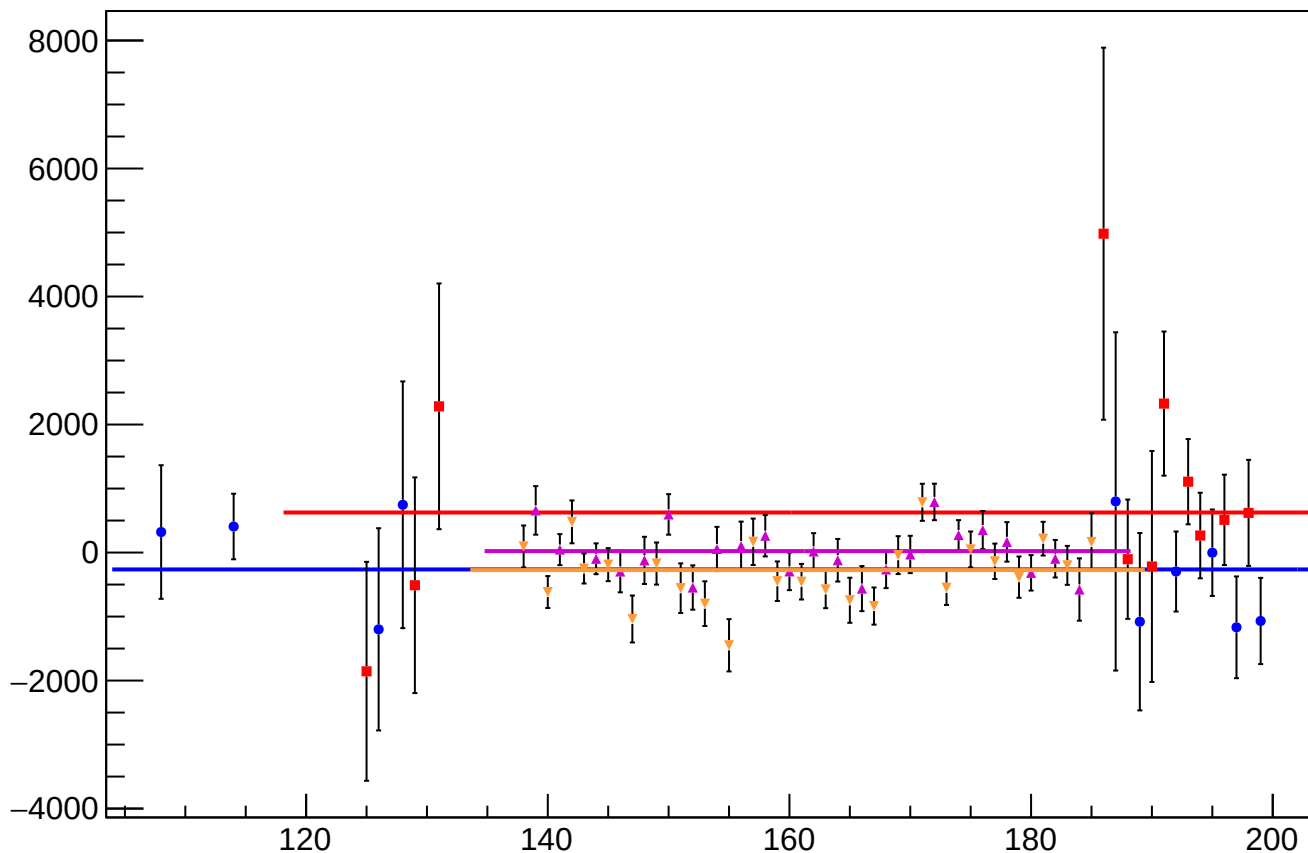
Right: 67.940 $\pm$ 0.010 χ^2 /NDF: 1220667.8/49

In: 61.886 $\pm$ 0.008 χ^2 /NDF: 944394.3/45

Out: 62.173 $\pm$ 0.008 χ^2 /NDF: 1507629.5/51

All: 62.034 $\pm$ 0.006 χ^2 /NDF: 2452631.5/97

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: 625.830 ± 297.663 $\chi^2/\text{NDF}: 9.5/10$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

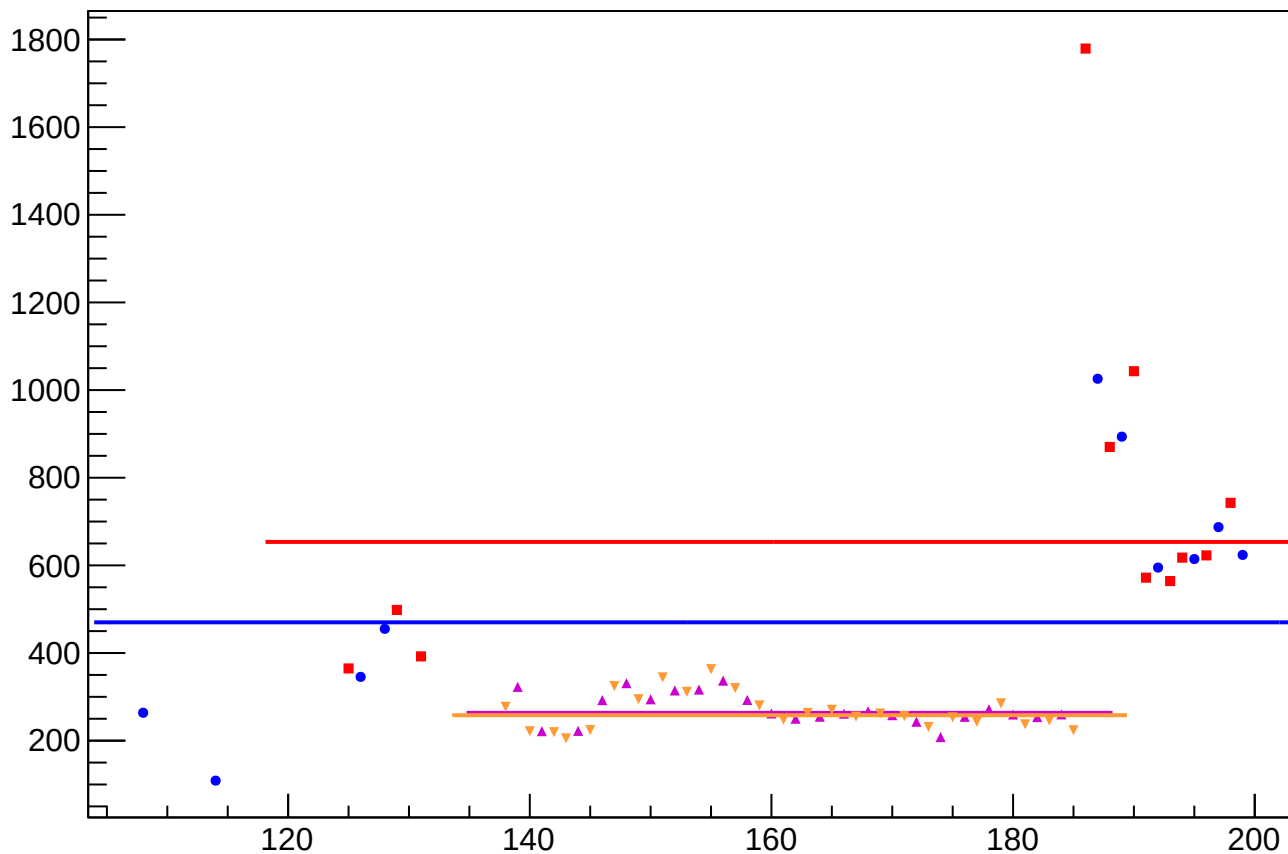
Right: 124.093 ± 196.552 $\chi^2/\text{NDF}: 20.6/20$

In: 6.639 ± 61.841 $\chi^2/\text{NDF}: 36.1/32$

Out: -238.050 ± 59.569 $\chi^2/\text{NDF}: 72.2/35$

All: -120.282 ± 42.902 $\chi^2/\text{NDF}: 116.4/68$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 470.020+/-0.185 χ^2/NDF : 1785475.0/9

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 653.546+/-0.210 χ^2/NDF : 691471.1/10

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

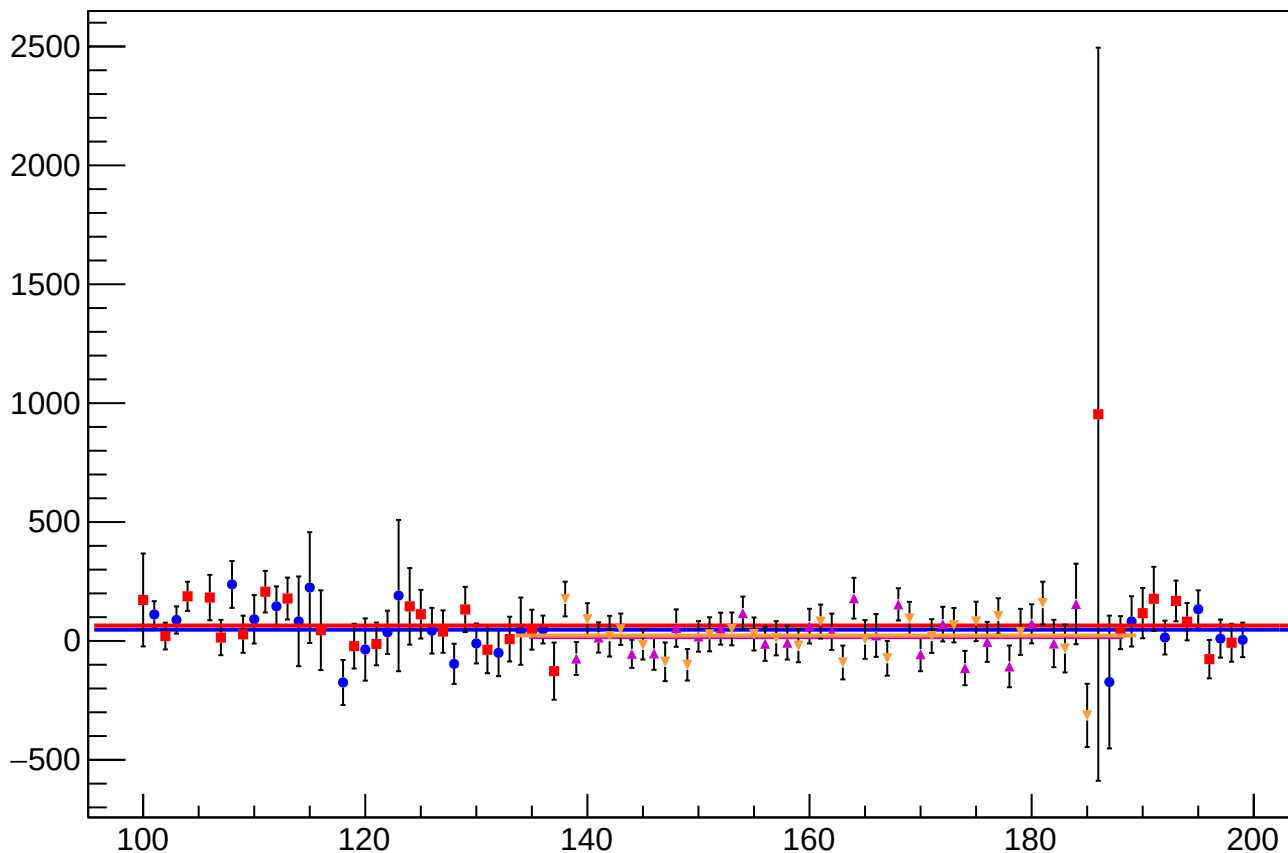
Right: 550.041+/-0.139 χ^2/NDF : 2905732.3/20

In: 274.932+/-0.044 χ^2/NDF : 3547987.9/32

Out: 273.880+/-0.042 χ^2/NDF : 4805787.8/35

All: 274.386+/-0.030 χ^2/NDF : 8354076.1/68

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: 64.950 $\pm$ 17.266 χ^2 /NDF: 25.0/26

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

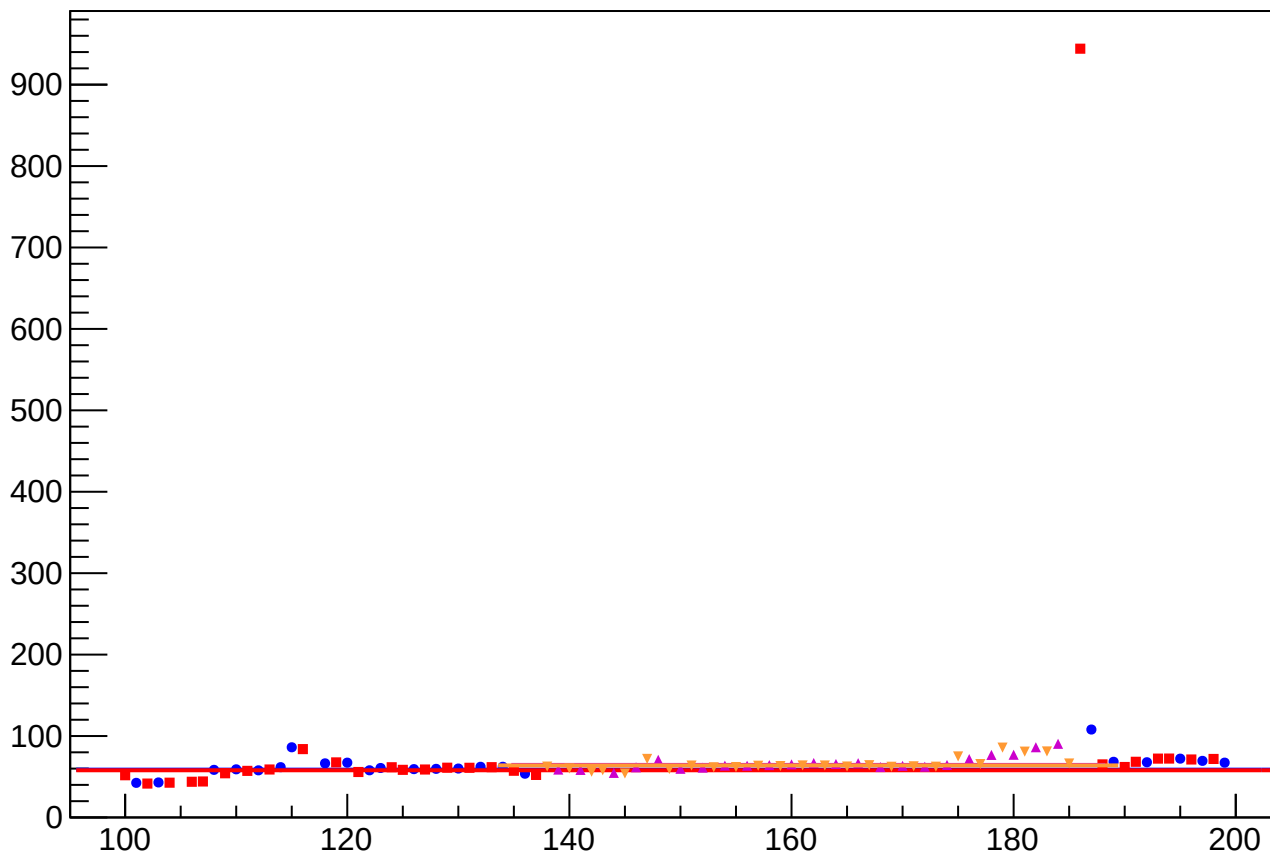
Right: 56.731 $\pm$ 12.587 χ^2 /NDF: 46.4/49

In: 29.194 $\pm$ 11.865 χ^2 /NDF:45.9/45

Out: 40.926 $\pm$ 11.310 χ^2 /NDF:57.4/51

All: 35.341 $\pm$ 8.186 χ^2 /NDF: 103.8/97

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: 57.952 $\pm$ 0.012 χ^2 /NDF: 1430333.4/26

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

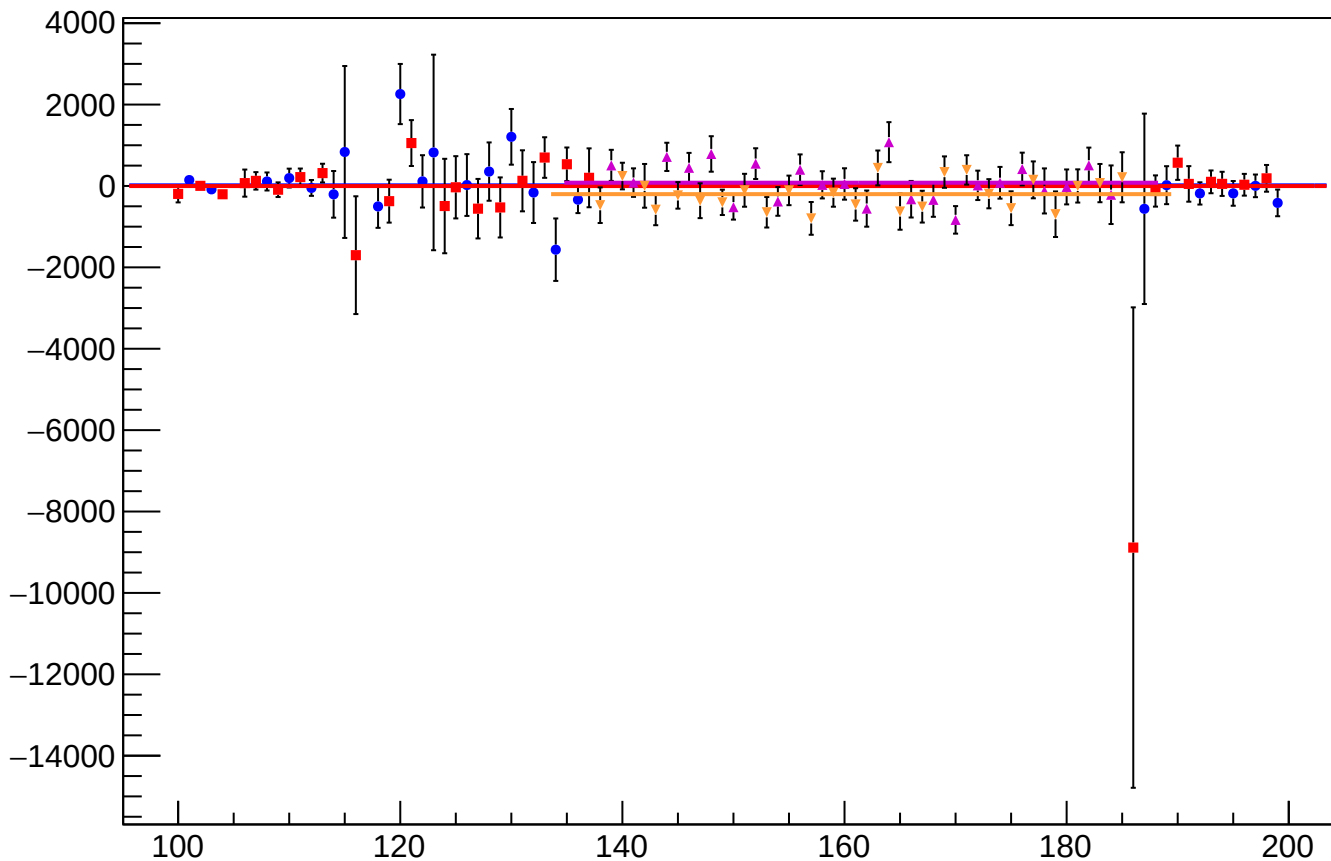
Right: 58.305 $\pm$ 0.009 χ^2 /NDF: 2056593.1/49

In: 62.094 $\pm$ 0.008 χ^2 /NDF: 1111319.8/45

Out: 61.359 $\pm$ 0.008 χ^2 /NDF: 1962186.2/51

All: 61.709 $\pm$ 0.006 χ^2 /NDF: 3077524.7/97

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: -2.706 ± 48.955 χ^2/NDF : 23.7/26

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

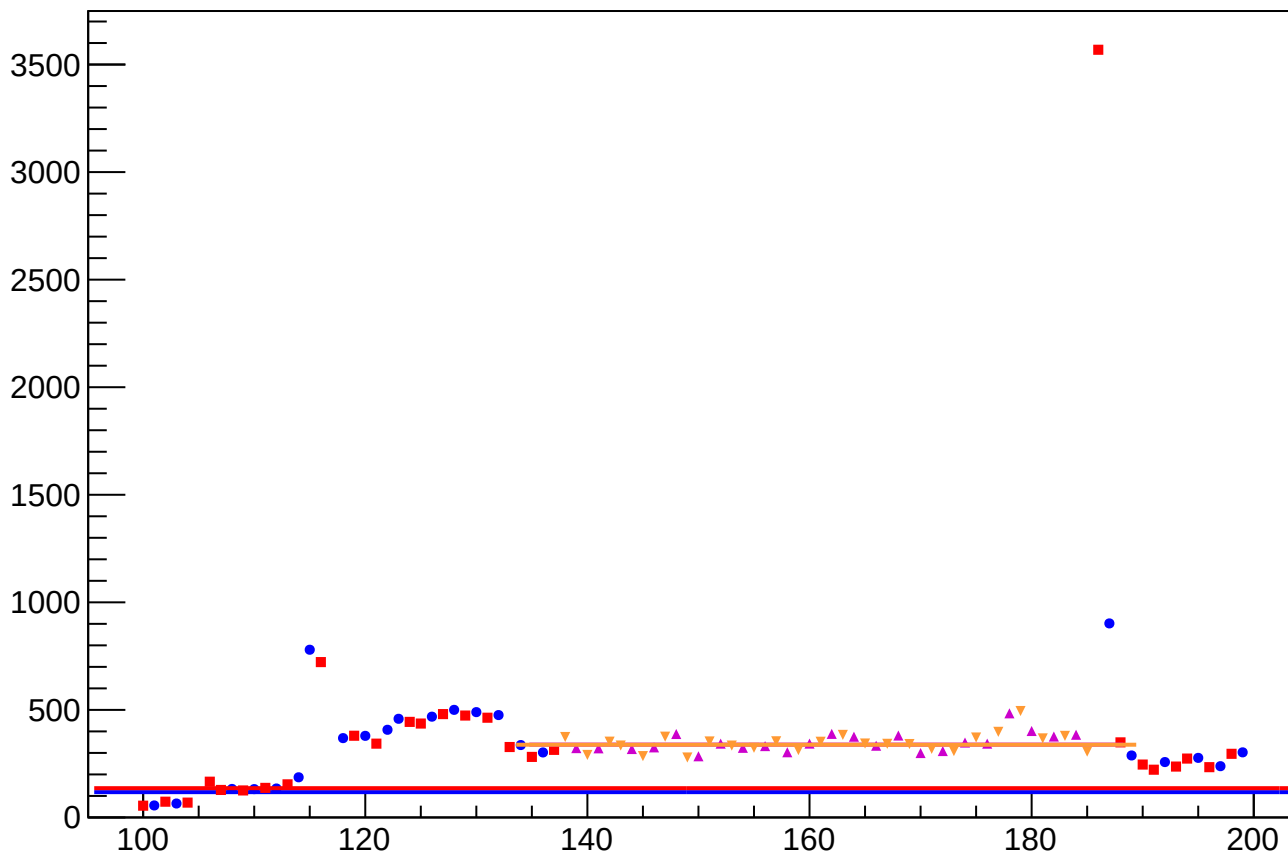
Right: 6.232 ± 34.409 χ^2/NDF : 50.5/49

In: 31.814 ± 41.636 χ^2/NDF : 60.6/45

Out: -57.200 ± 41.693 χ^2/NDF : 47.9/51

All: -12.632 ± 29.461 χ^2/NDF : 110.8/97

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: 136.108 $\pm$ 0.035 χ^2 /NDF: 8340859.6/26

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

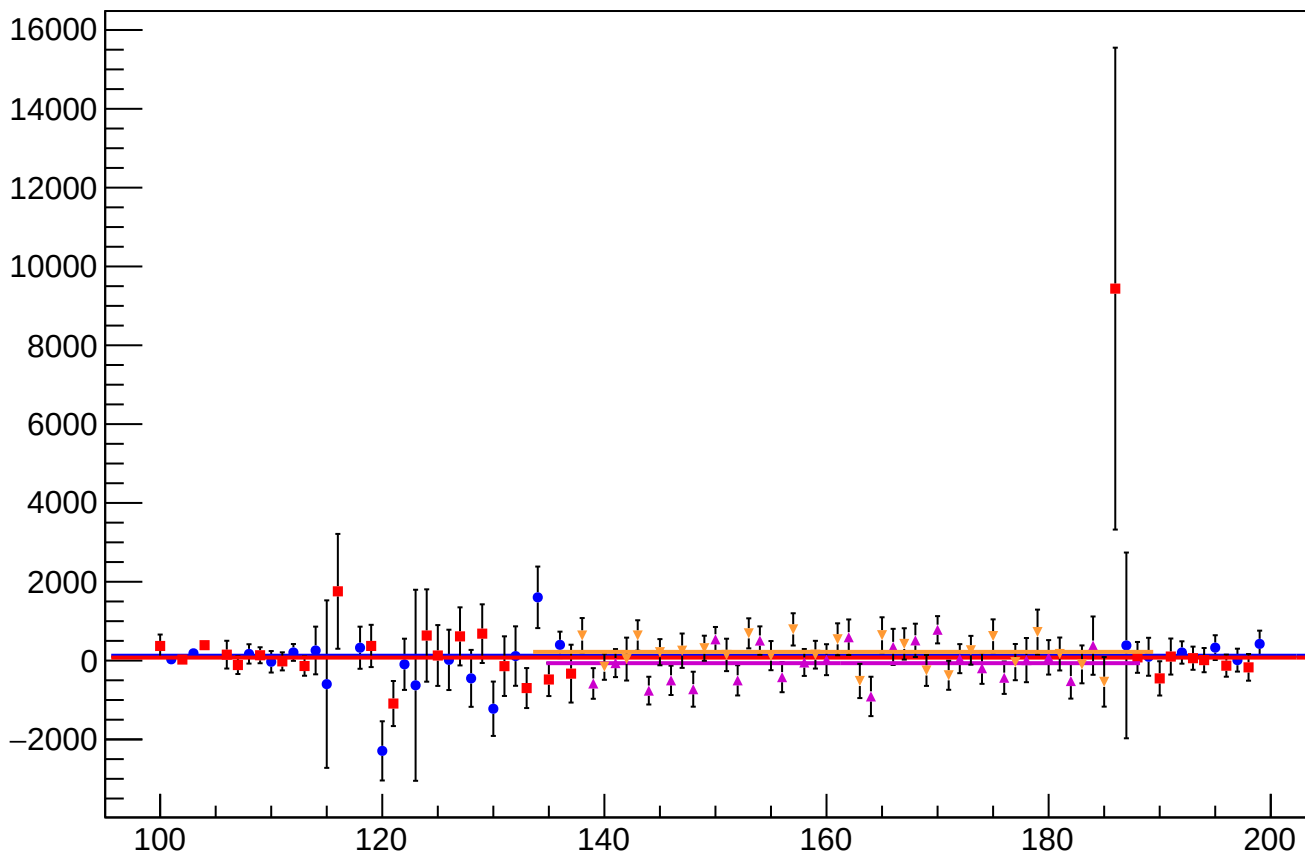
Right: 126.766 $\pm$ 0.024 χ^2 /NDF: 17187351.3/49

In: 174.905 $\pm$ 0.029 χ^2 /NDF:19951558.0/45

Out: 191.603 $\pm$ 0.029 χ^2 /NDF:18195207.7/51

All: 183.243 $\pm$ 0.021 χ^2 /NDF: 38307380.0/97

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: 76.023 $\pm$ 55.040 χ^2 /NDF: 26.4/26

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

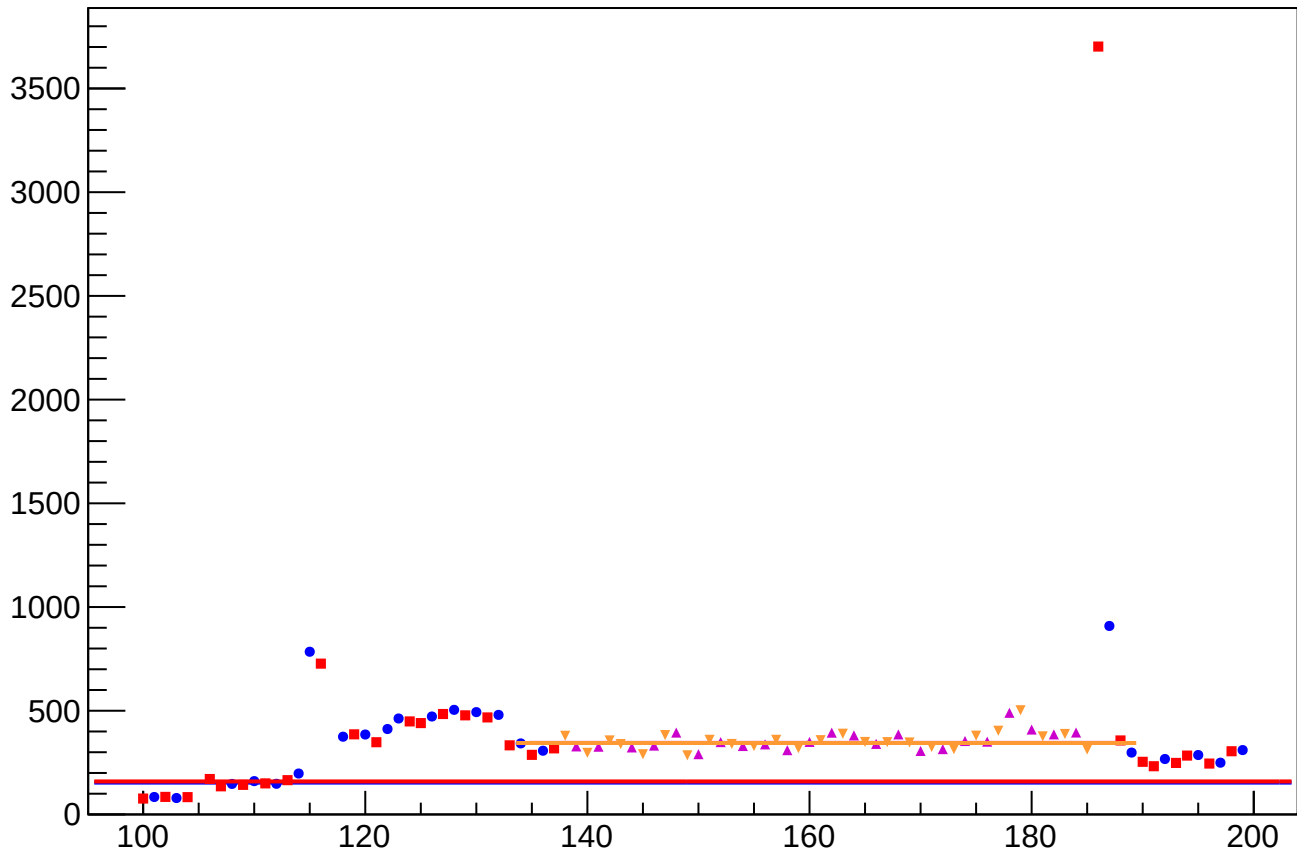
Right: 98.387 $\pm$ 39.895 χ^2 /NDF: 49.3/49

In: 61.695 $\pm$ 47.552 χ^2 /NDF:60.0/45

Out: 121.830 $\pm$ 45.528 χ^2 /NDF:48.3/51

All: 93.070 $\pm$ 32.885 χ^2 /NDF: 109.1/97

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: 159.214+/-0.039 χ^2/NDF : 7107334.2/26

Left In: 345.039+/-0.059 χ^2/NDF : 427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

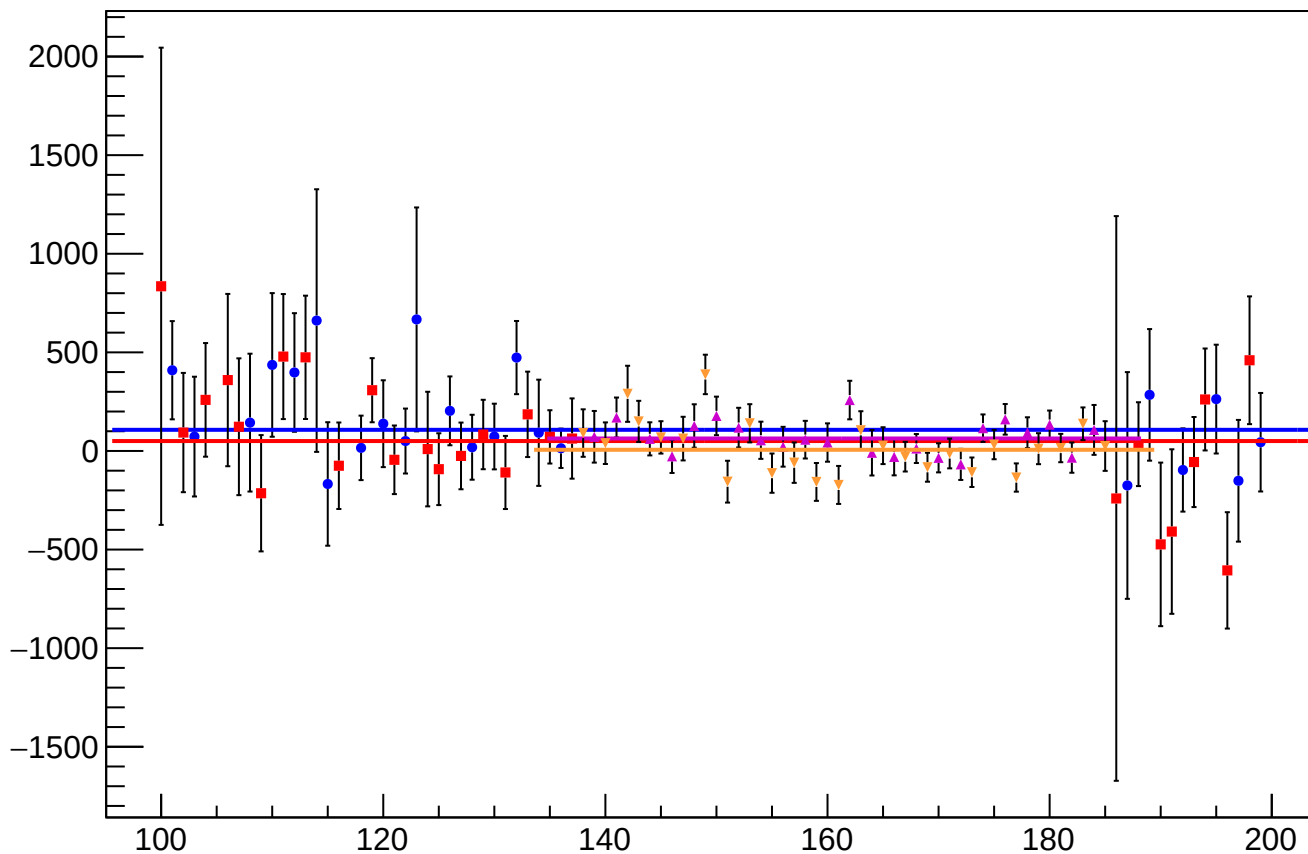
Right: 156.511+/-0.028 χ^2/NDF : 13888498.2/49

In: 215.901+/-0.034 χ^2/NDF : 14323784.4/45

Out: 217.726+/-0.032 χ^2/NDF : 14753284.4/51

All: 216.853+/-0.023 χ^2/NDF : 29078604.8/97

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: 50.256 $\pm$ 45.243 χ^2 /NDF: 21.4/26

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

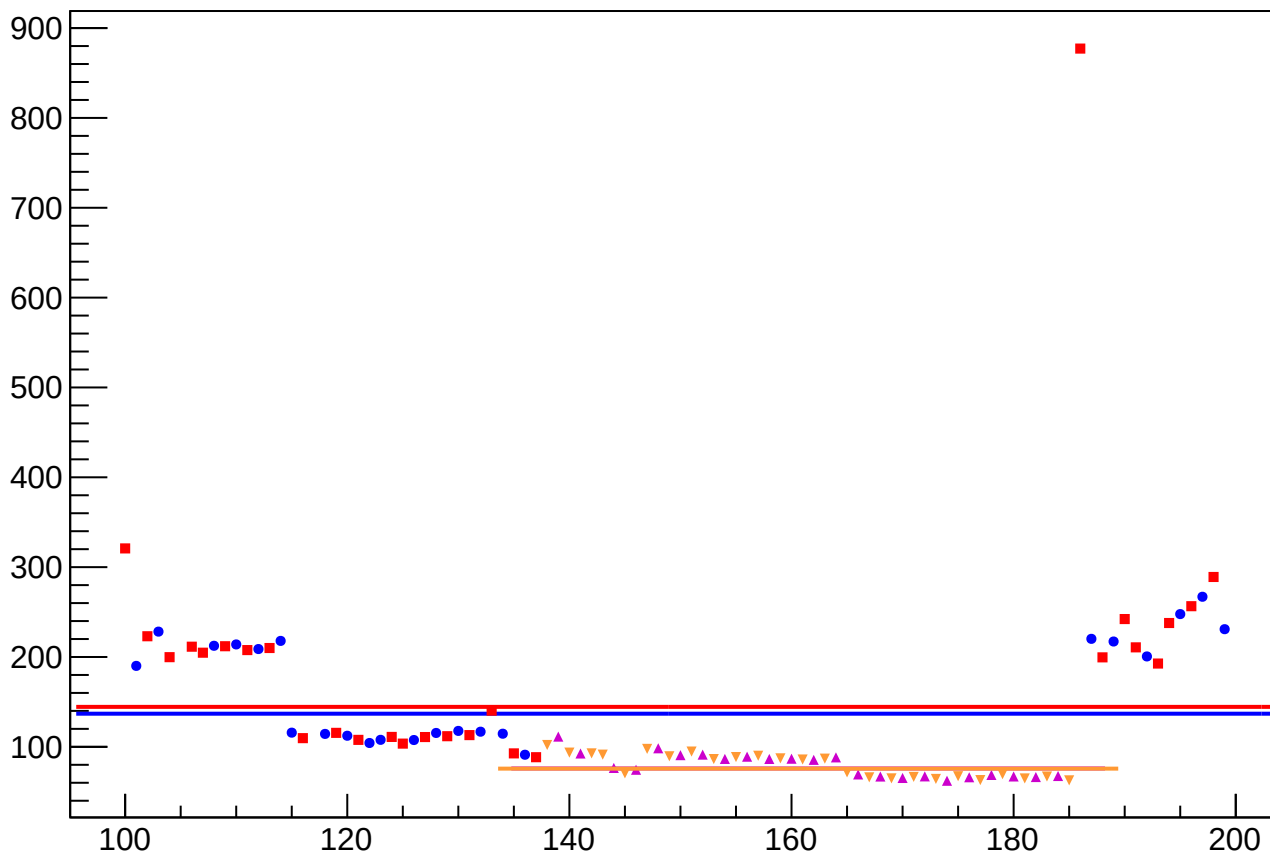
Right: 78.718 $\pm$ 32.013 χ^2 /NDF: 36.3/49

In: 69.533 $\pm$ 17.085 χ^2 /NDF:34.7/45

Out: 12.012 $\pm$ 16.653 χ^2 /NDF:68.3/51

All: 40.036 $\pm$ 11.925 χ^2 /NDF: 108.8/97

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: 144.487 $\pm$ 0.032 χ^2 /NDF: 3469043.6/26

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

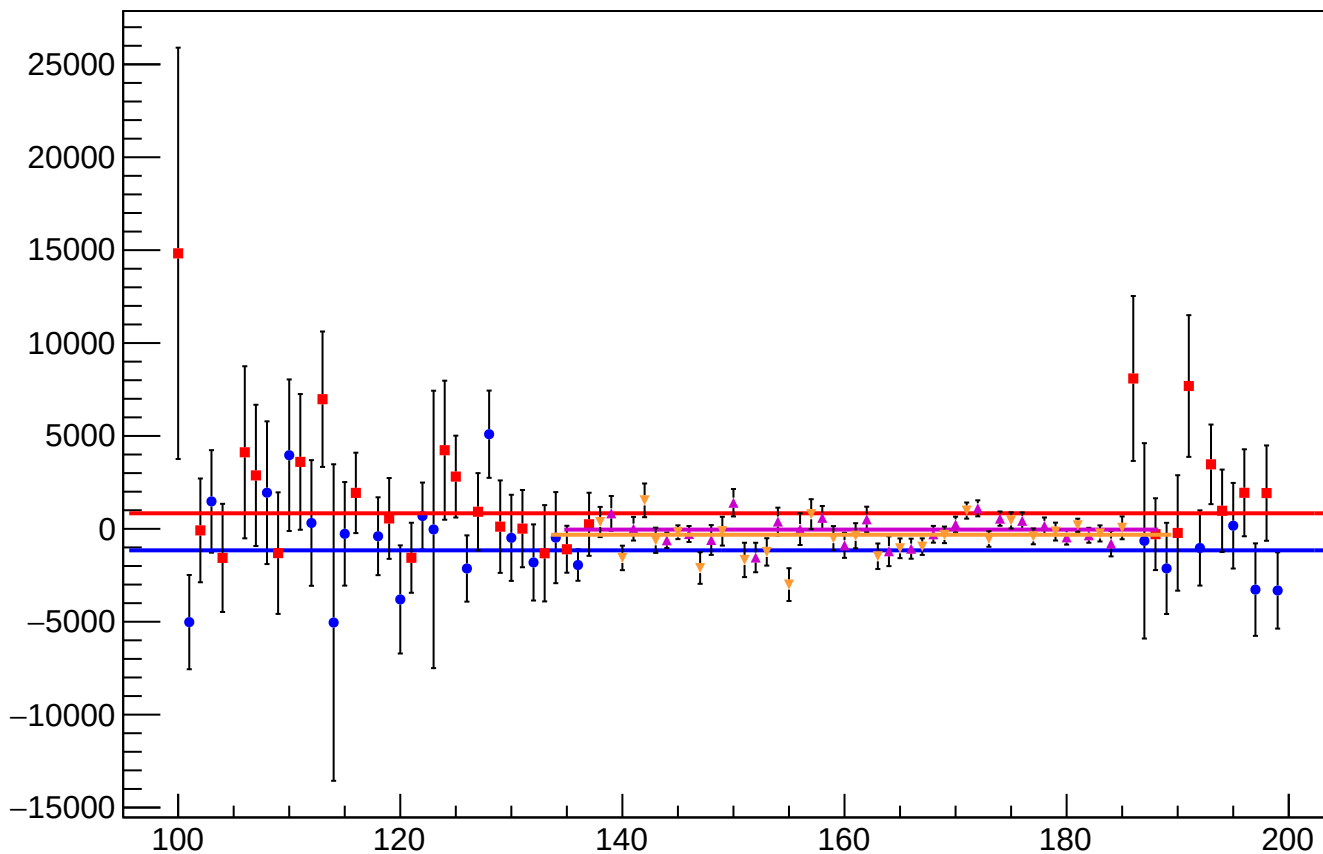
Right: 140.689 $\pm$ 0.023 χ^2 /NDF: 6127068.9/49

In: 84.580 $\pm$ 0.012 χ^2 /NDF:6568429.5/45

Out: 85.056 $\pm$ 0.012 χ^2 /NDF:8398737.1/51

All: 84.824 $\pm$ 0.008 χ^2 /NDF: 14967961.6/97

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1157.294 ± 455.166 $\chi^2/\text{NDF}: 18.8/22$

Left Out: -318.064 ± 108.014 $\chi^2/\text{NDF}: 50.0/24$

Right Out: 836.930 ± 466.679 $\chi^2/\text{NDF}: 22.2/26$

Left In: -40.473 ± 110.252 $\chi^2/\text{NDF}: 34.7/22$

Left: -182.115 ± 77.156 $\chi^2/\text{NDF}: 88.0/47$

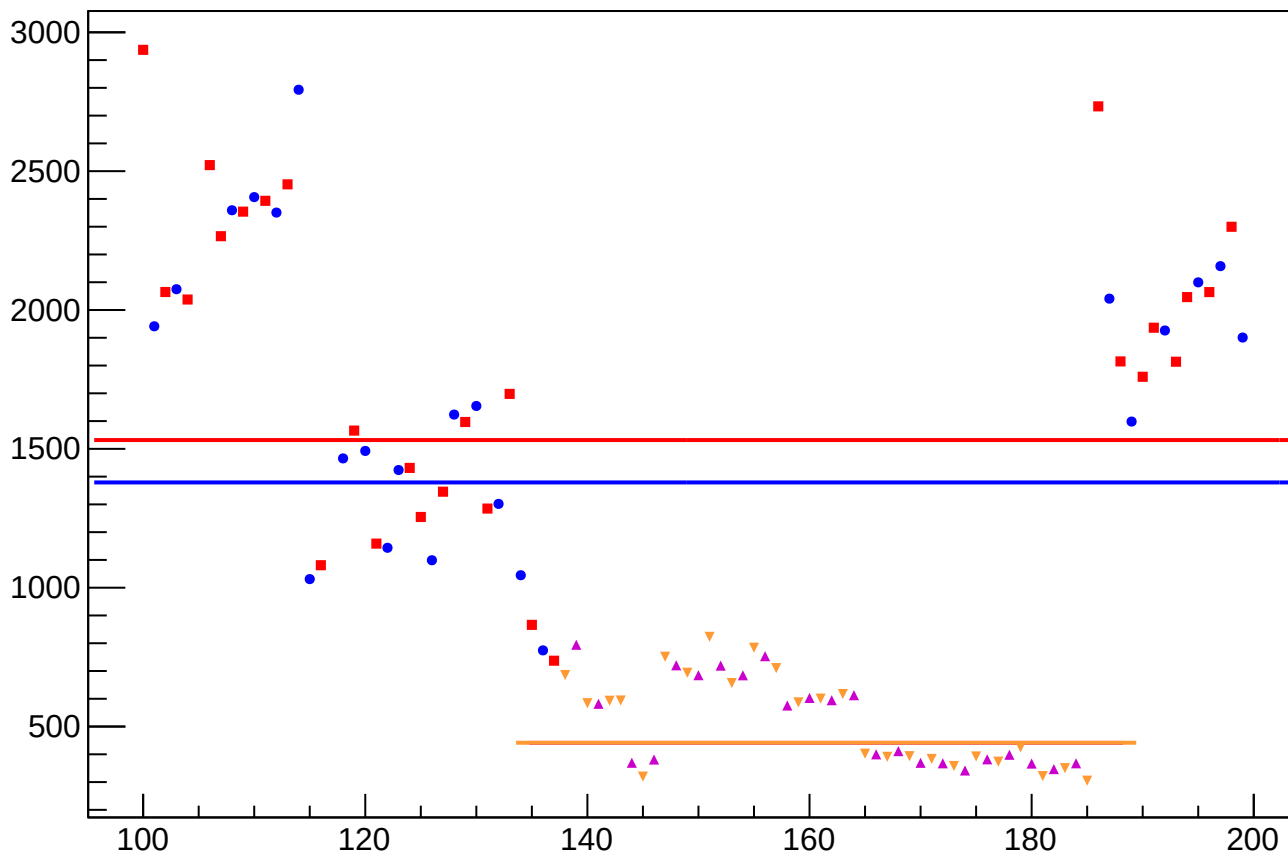
Right: -185.082 ± 325.845 $\chi^2/\text{NDF}: 50.4/49$

In: -102.368 ± 107.154 $\chi^2/\text{NDF}: 59.3/45$

Out: -259.337 ± 105.232 $\chi^2/\text{NDF}: 78.0/51$

All: -182.273 ± 75.080 $\chi^2/\text{NDF}: 138.4/97$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1379.038 $\pm$ 0.322 χ^2 /NDF: 2645489.7/22

Left Out: 441.685 $\pm$ 0.076 χ^2 /NDF:3169140.9/24

Right Out: 1531.673 $\pm$ 0.330 χ^2 /NDF: 2591240.3/26

Left In: 441.009 $\pm$ 0.078 χ^2 /NDF:2597018.1/22

Left: 441.354 $\pm$ 0.055 χ^2 /NDF: 5766197.3/47

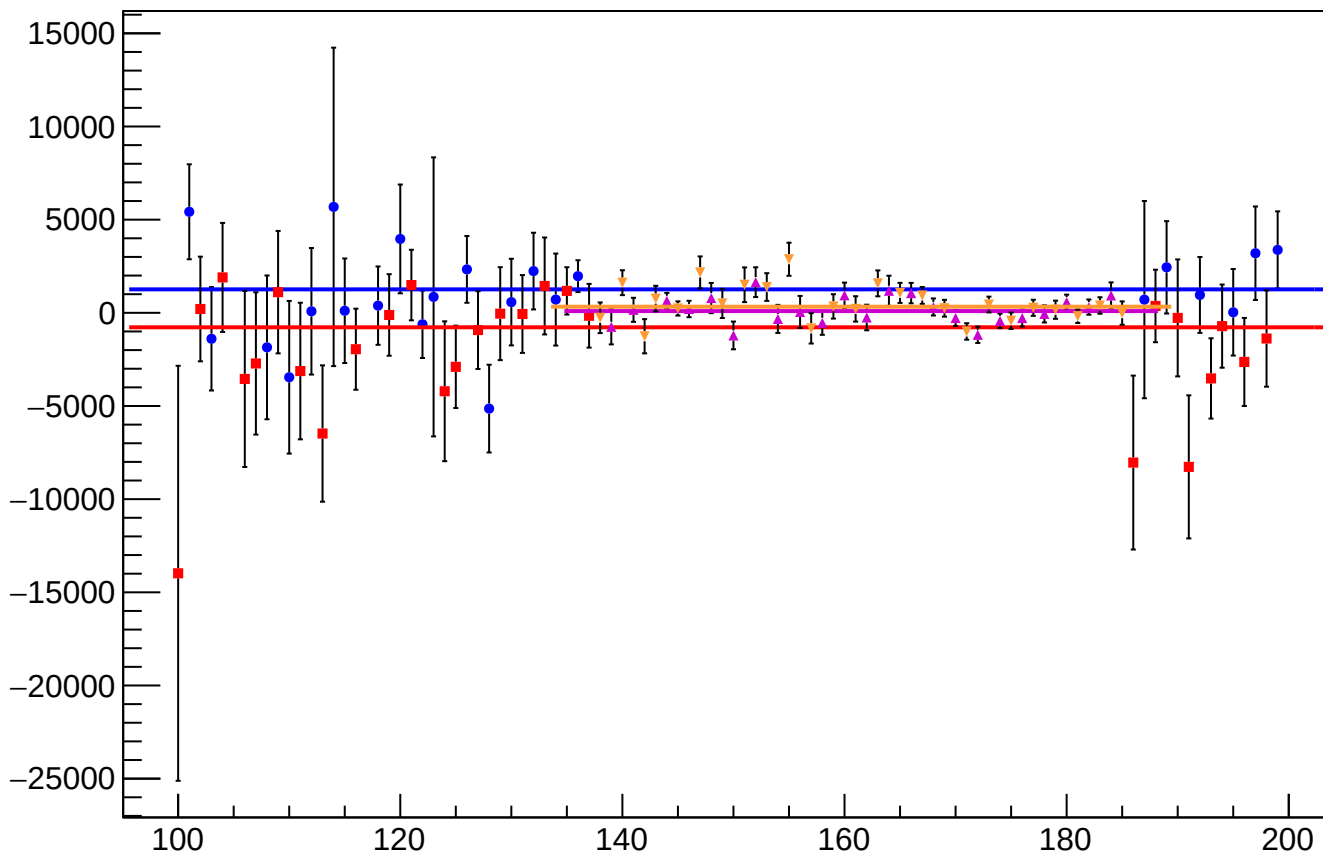
Right: 1453.450 $\pm$ 0.230 χ^2 /NDF: 5346374.4/49

In: 492.995 $\pm$ 0.076 χ^2 /NDF:13265949.5/45

Out: 497.106 $\pm$ 0.074 χ^2 /NDF:16115968.4/51

All: 495.088 $\pm$ 0.053 χ^2 /NDF: 29383416.6/97

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: -776.862 $\pm$ 469.597 χ^2 /NDF: 22.0/26

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

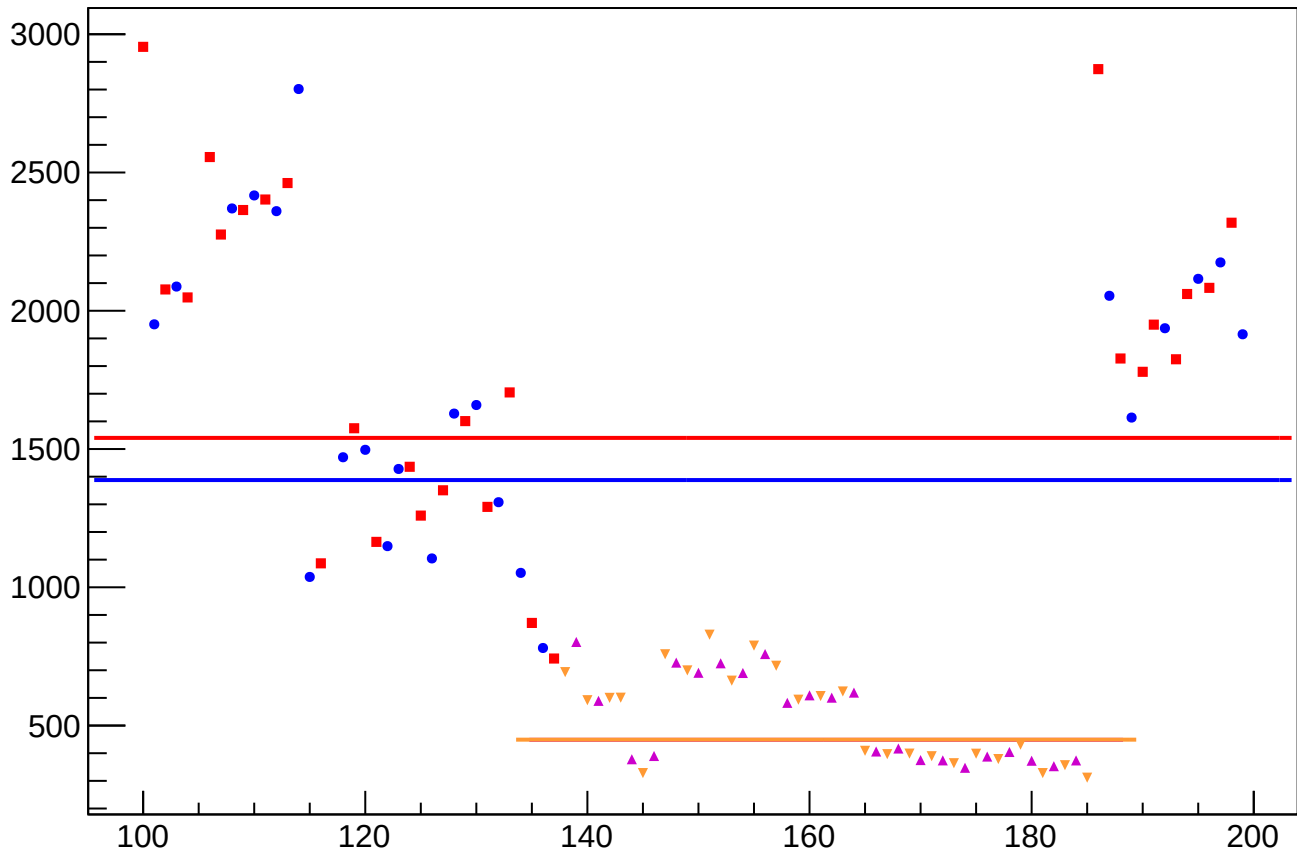
Right: 266.714 $\pm$ 327.853 χ^2 /NDF: 50.9/49

In: 159.065 $\pm$ 108.756 χ^2 /NDF: 58.7/45

Out: 271.426 $\pm$ 106.795 χ^2 /NDF: 75.0/51

All: 216.268 $\pm$ 76.199 χ^2 /NDF: 134.2/97

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1387.788+/-0.324 χ^2/NDF : 2636108.1/22

Left Out: 449.016+/-0.078 χ^2/NDF : 3090476.2/24

Right Out: 1540.270+/-0.332 χ^2/NDF : 2611643.6/26

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

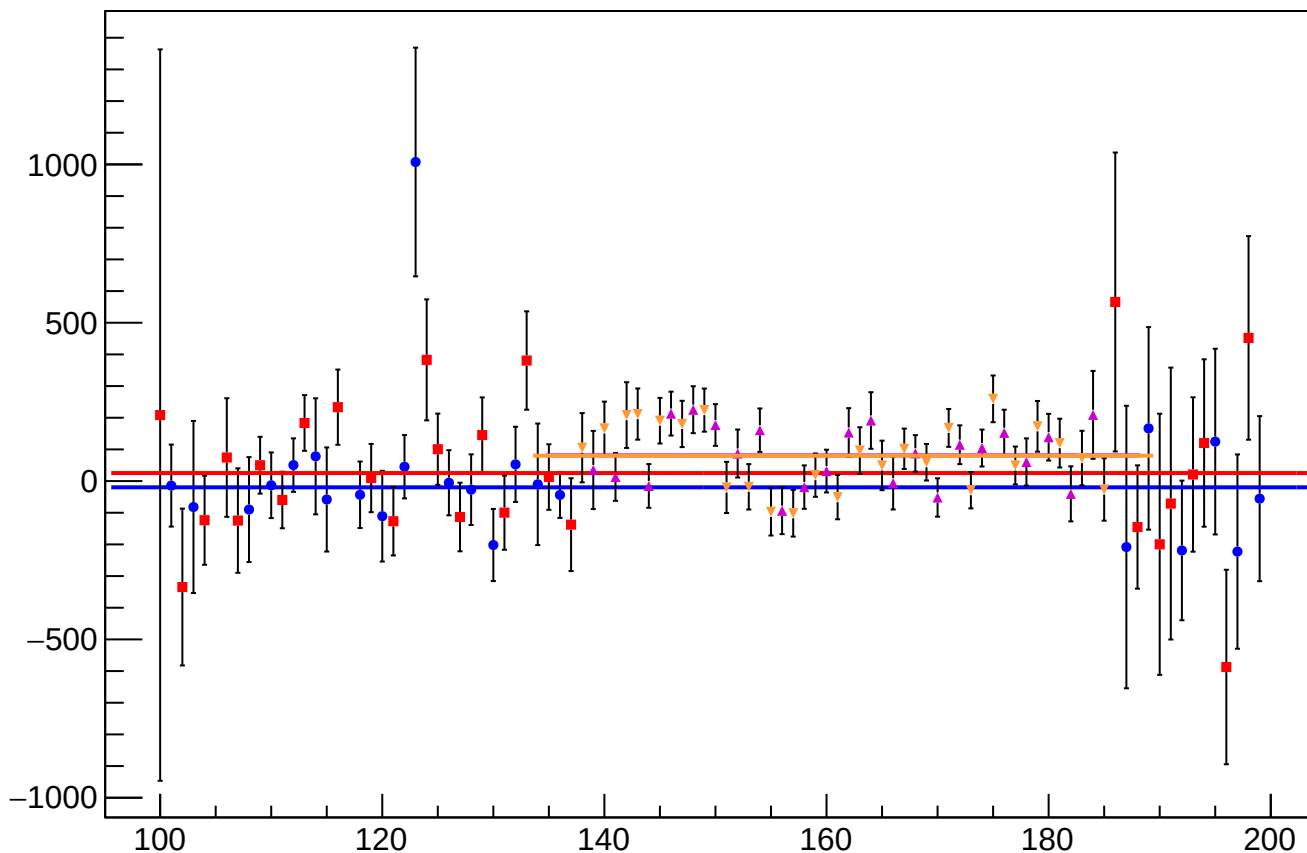
Right: 1462.112+/-0.232 χ^2/NDF : 5355838.9/49

In: 501.297+/-0.077 χ^2/NDF : 13116593.3/45

Out: 505.455+/-0.076 χ^2/NDF : 15943735.4/51

All: 503.414+/-0.054 χ^2/NDF : 29061816.7/97

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -19.741 ± 28.070 χ^2/NDF : 15.3/22

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: 25.342 ± 27.071 χ^2/NDF : 36.0/26

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

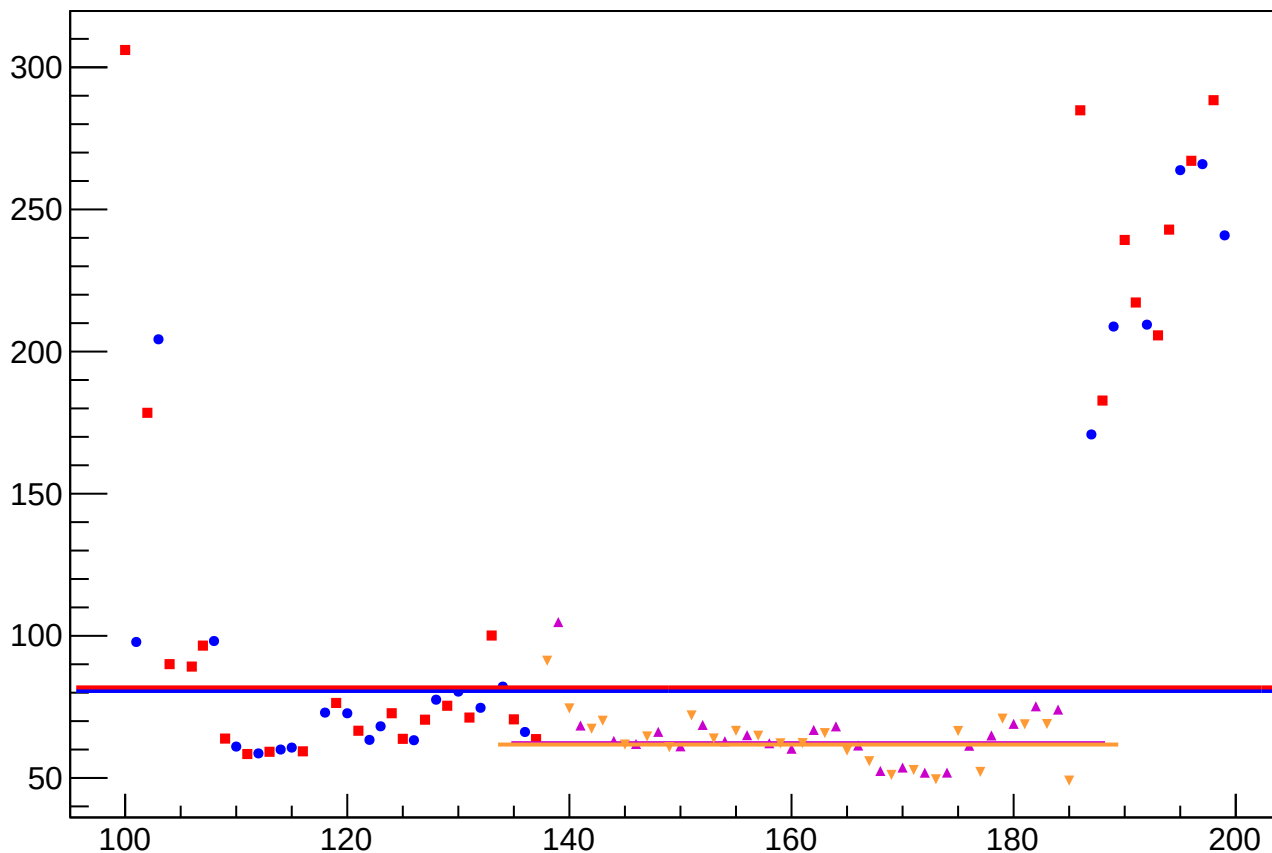
Right: 3.617 ± 19.486 χ^2/NDF : 52.6/49

In: 58.499 ± 13.302 χ^2/NDF : 60.7/45

Out: 67.826 ± 12.845 χ^2/NDF : 87.7/51

All: 63.326 ± 9.240 χ^2/NDF : 148.6/97

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: 81.862 $\pm$ 0.019 χ^2 /NDF: 5265348.9/26

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

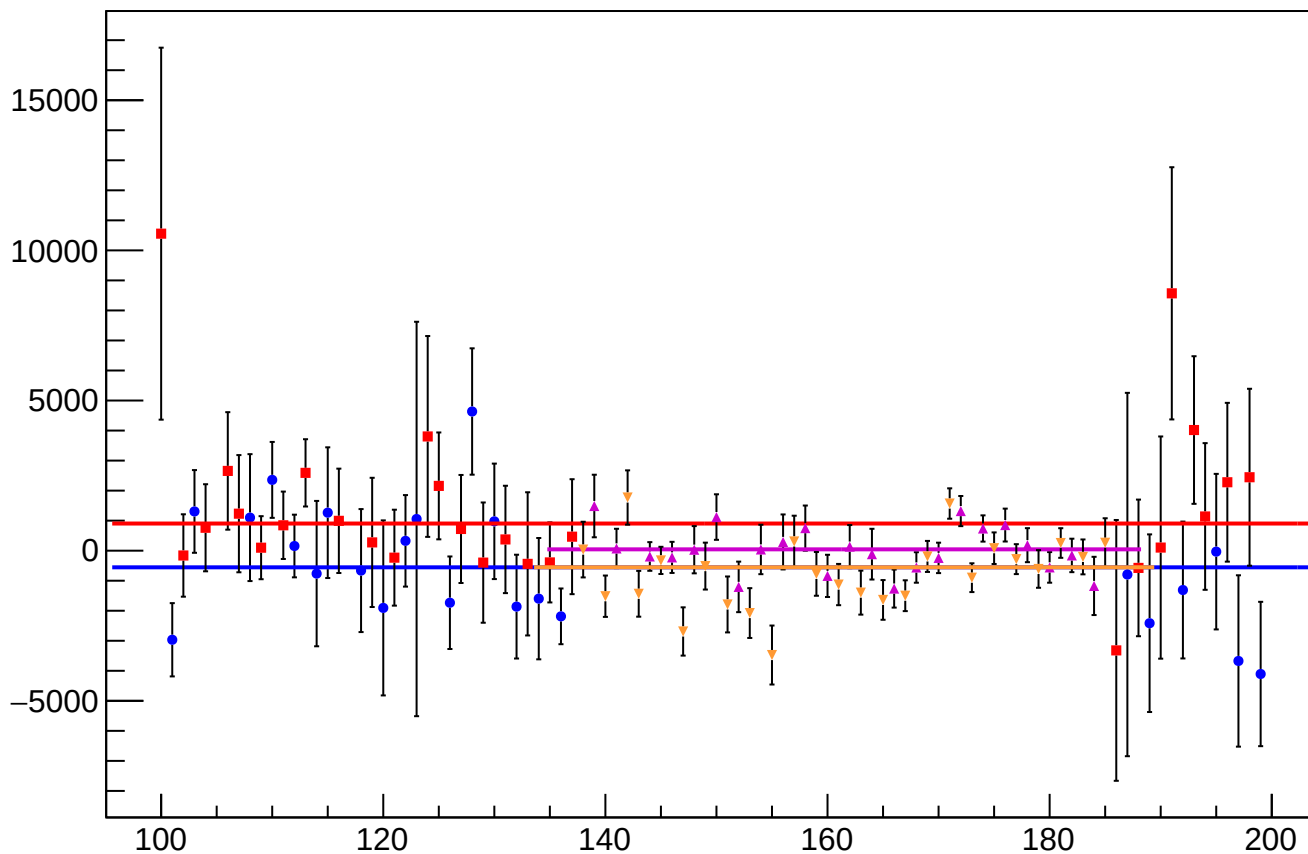
Right: 81.257 $\pm$ 0.014 χ^2 /NDF: 9575518.5/49

In: 66.372 $\pm$ 0.009 χ^2 /NDF: 5562416.7/45

Out: 66.287 $\pm$ 0.009 χ^2 /NDF: 6765302.1/51

All: 66.328 $\pm$ 0.007 χ^2 /NDF: 12327761.5/97

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: 904.040+/-348.144 χ^2/NDF : 17.3/26

Left In: 44.578+/-129.095 χ^2/NDF : 29.6/22

Left: -258.894+/-90.527 χ^2/NDF : 105.7/47

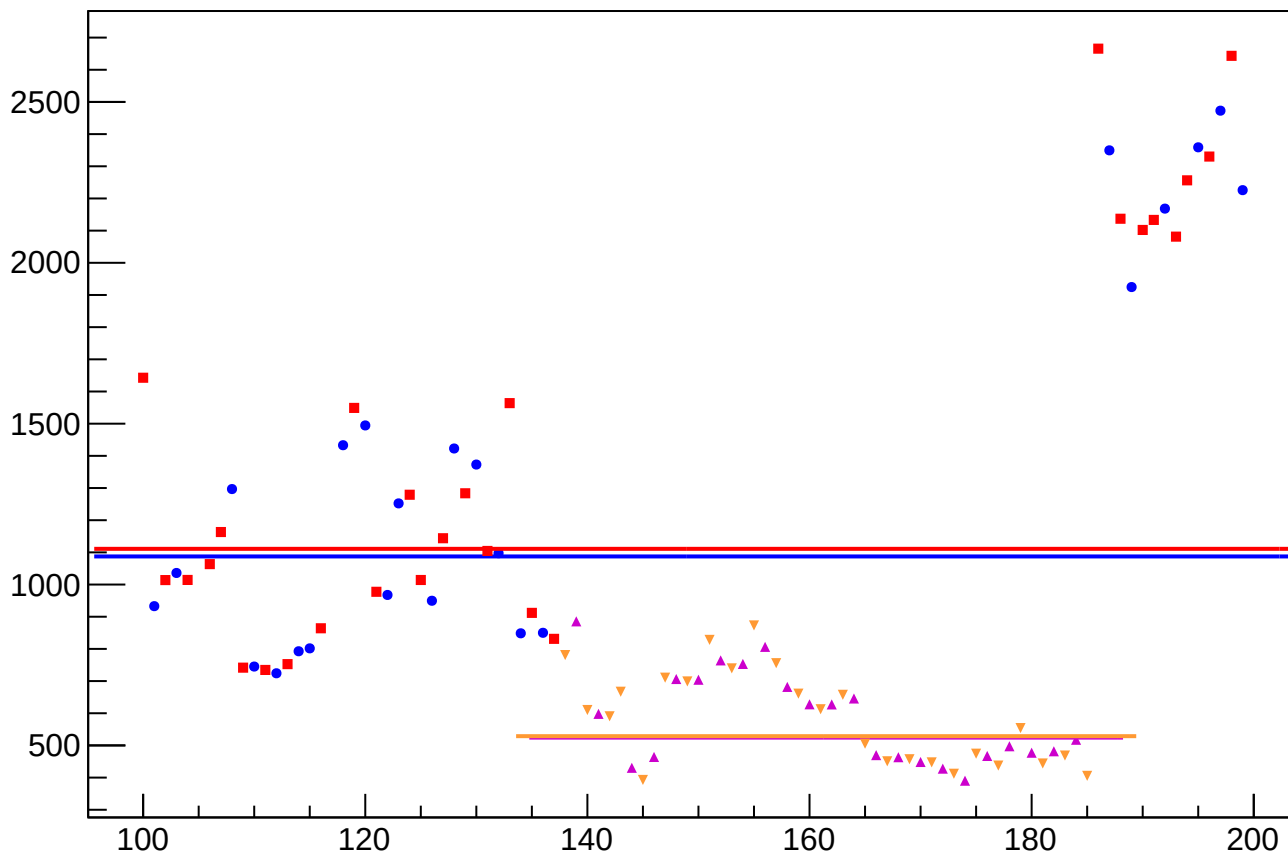
Right: 204.978+/-251.198 χ^2/NDF : 54.3/49

In: -22.714+/-121.624 χ^2/NDF : 60.6/45

Out: -381.492+/-119.294 χ^2/NDF : 98.1/51

All: -205.574+/-85.165 χ^2/NDF : 163.1/97

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: 1111.017+/-0.246 χ^2/NDF : 3680086.7/26

Left In: 524.268+/-0.091 χ^2/NDF : 1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

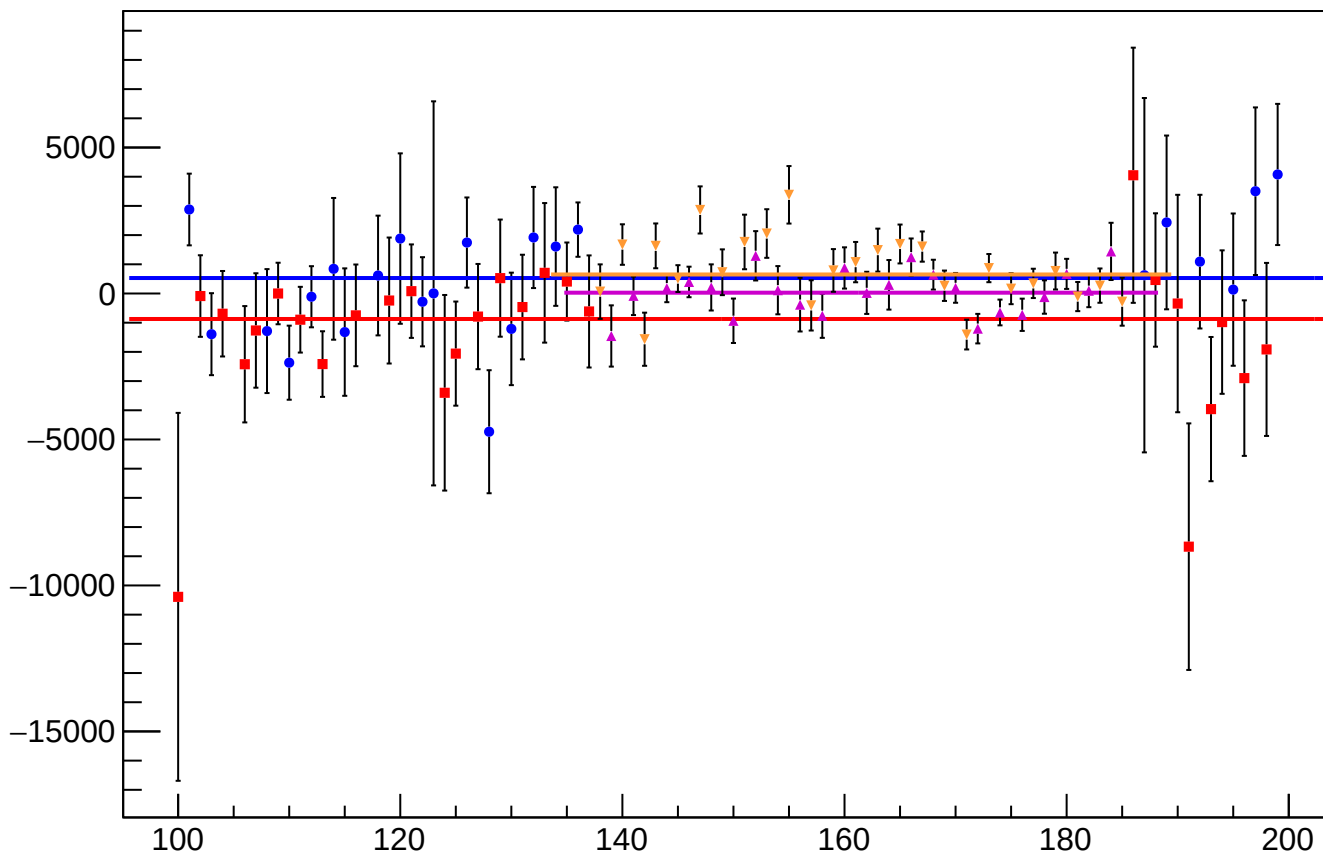
Right: 1099.674+/-0.178 χ^2/NDF : 6671281.8/49

In: 587.549+/-0.086 χ^2/NDF : 8979247.5/45

Out: 597.103+/-0.084 χ^2/NDF : 10601610.0/51

All: 592.419+/-0.060 χ^2/NDF : 19587148.3/97

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 529.803+/-364.498 χ^2/NDF : 28.6/22

Left Out: 651.560+/-127.961 χ^2/NDF :61.1/24

Right Out: -873.179+/-349.934 χ^2/NDF : 16.5/26

Left In: 27.483+/-130.127 χ^2/NDF :28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

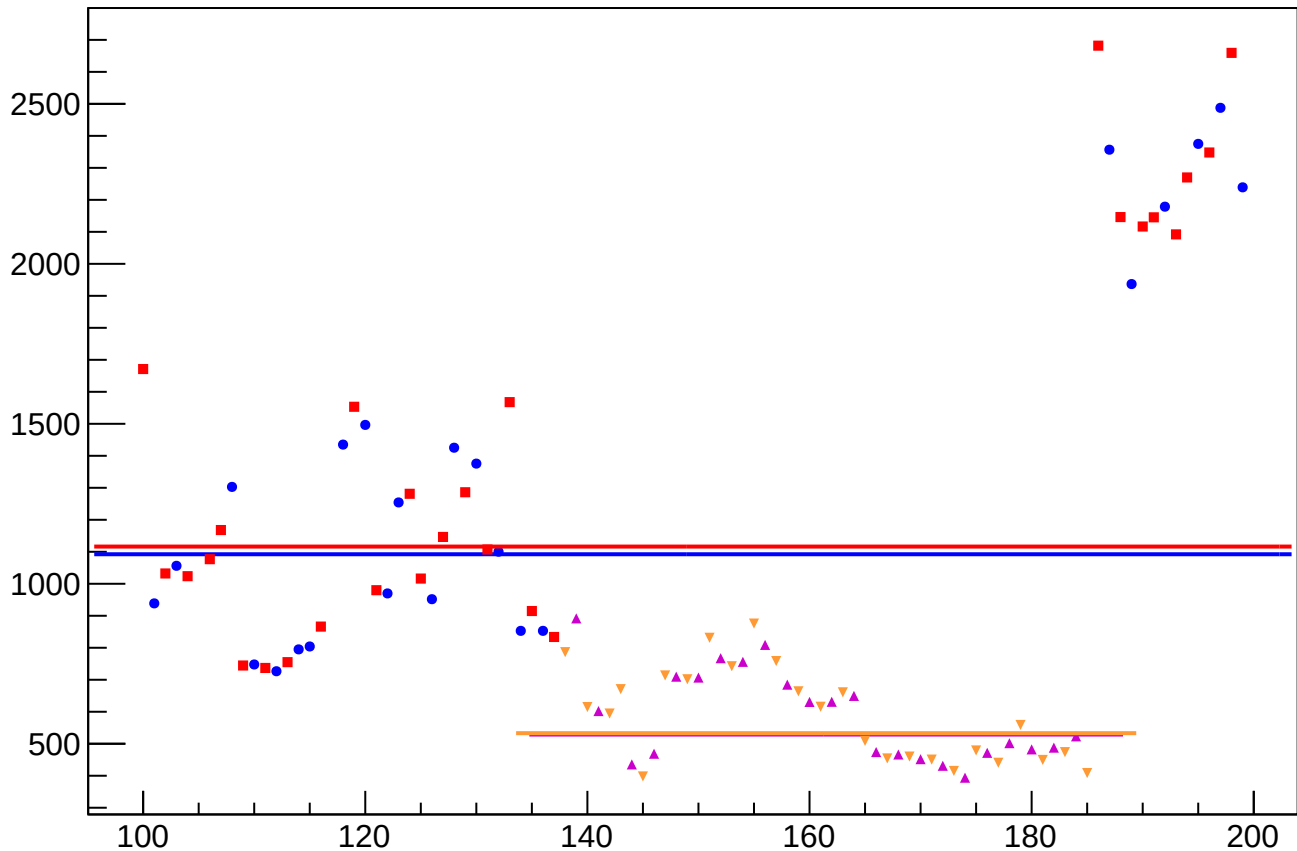
Right: -200.277+/-252.432 χ^2/NDF : 52.8/49

In: 84.267+/-122.551 χ^2/NDF :58.7/45

Out: 471.725+/-120.178 χ^2/NDF :94.4/51

All: 281.783+/-85.806 χ^2/NDF : 158.2/97

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: 1116.304+/-0.247 χ^2/NDF : 3688664.5/26

Left In: 528.694+/-0.092 χ^2/NDF :1688511.2/22

Left: 530.914+/-0.065 χ^2/NDF : 3641192.3/47

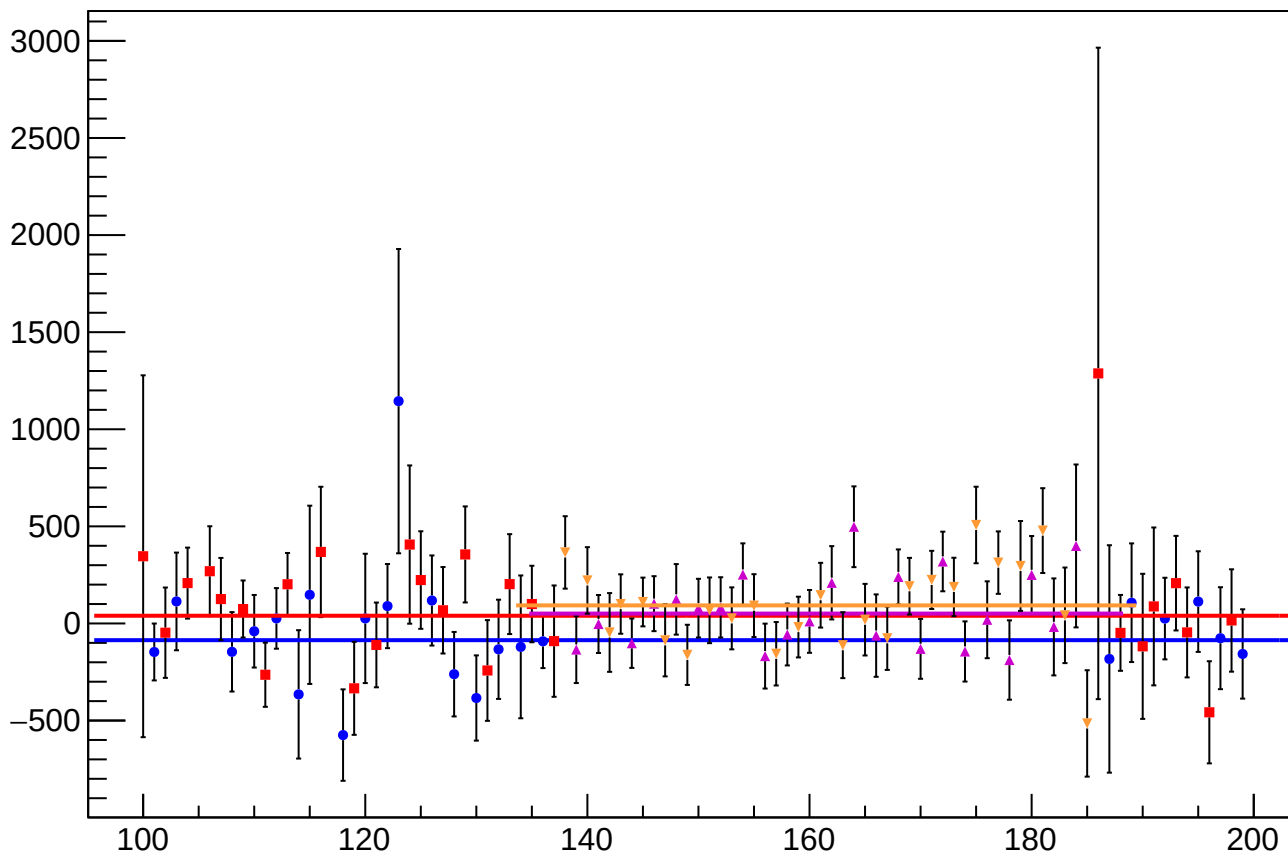
Right: 1104.788+/-0.178 χ^2/NDF : 6684754.4/49

In: 592.405+/-0.087 χ^2/NDF :8921228.4/45

Out: 601.851+/-0.085 χ^2/NDF :10540851.4/51

All: 597.220+/-0.061 χ^2/NDF : 19468136.5/97

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: 39.695 ± 45.186 χ^2/NDF : 20.6/26

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

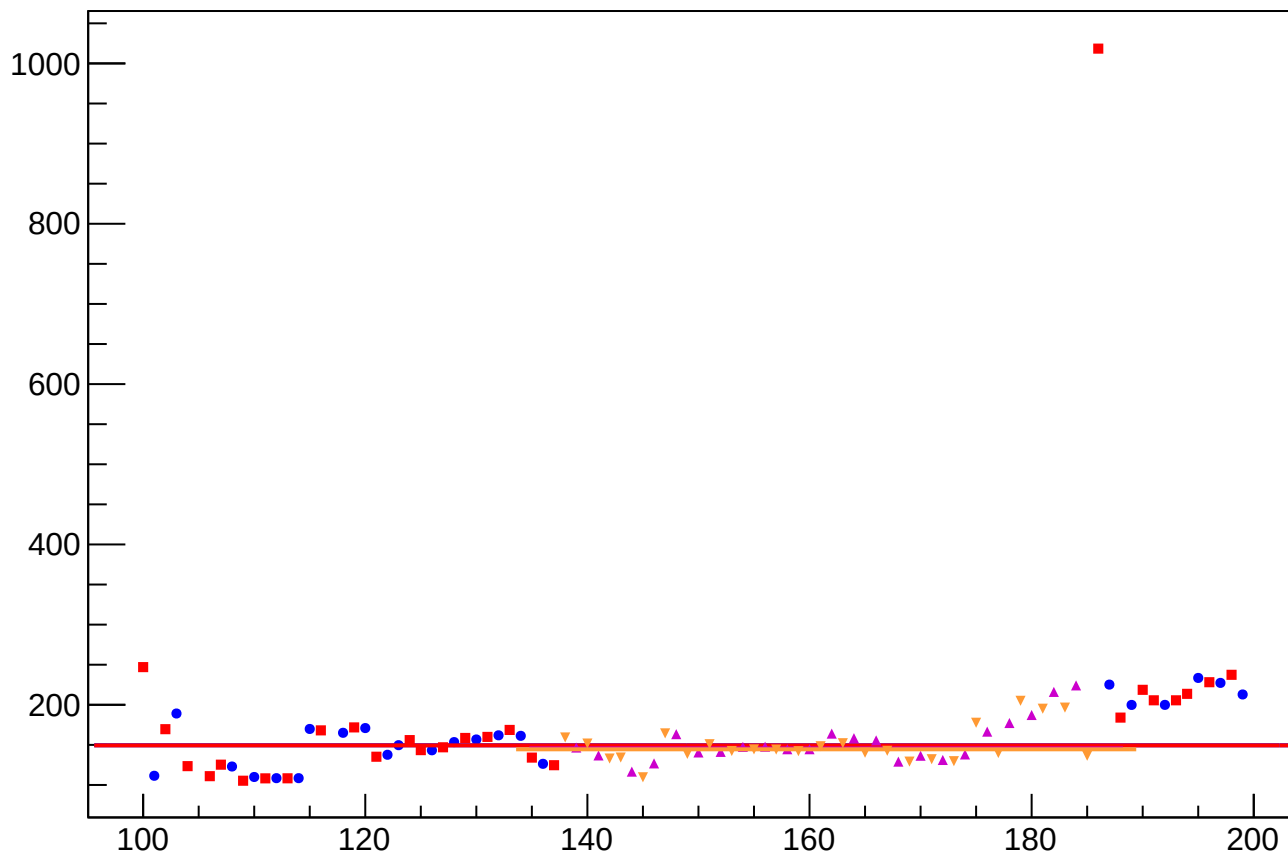
Right: -19.863 ± 32.791 χ^2/NDF : 38.9/49

In: 2.394 ± 28.356 χ^2/NDF : 43.5/45

Out: 73.688 ± 27.195 χ^2/NDF : 50.9/51

All: 39.529 ± 19.627 χ^2/NDF : 97.7/97

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 149.521 $\pm$ 0.034 χ^2 /NDF: 1311284.3/22

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 149.372 $\pm$ 0.032 χ^2 /NDF: 2040317.2/26

Left In: 145.535 $\pm$ 0.025 χ^2 /NDF: 643529.3/22

Left: 144.986 $\pm$ 0.017 χ^2 /NDF: 1314951.6/47

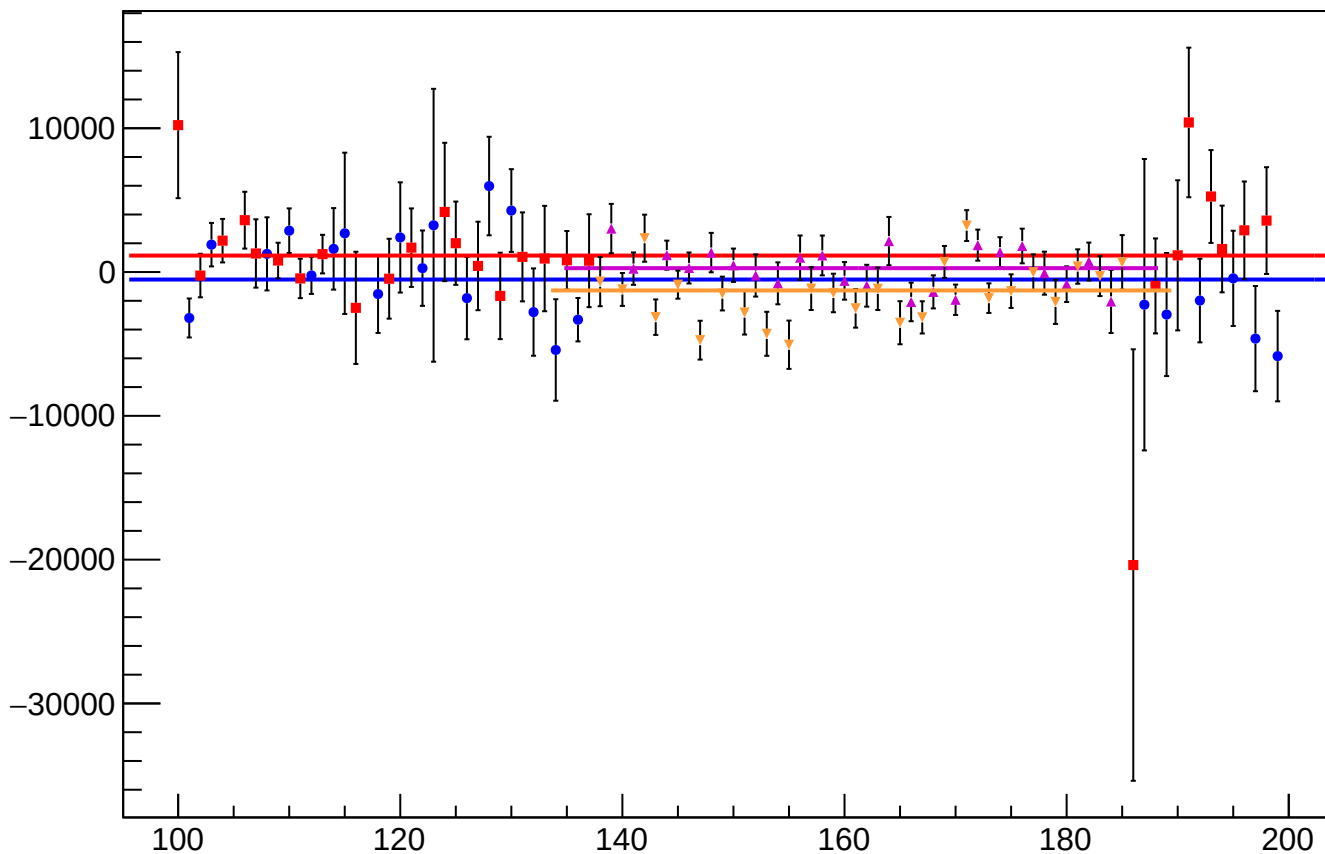
Right: 149.443 $\pm$ 0.023 χ^2 /NDF: 3351611.8/49

In: 146.946 $\pm$ 0.020 χ^2 /NDF: 1963854.0/45

Out: 146.249 $\pm$ 0.019 χ^2 /NDF: 2725783.4/51

All: 146.583 $\pm$ 0.014 χ^2 /NDF: 4690267.0/97

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: 1145.592+/-454.217 χ^2/NDF : 18.2/26

Left In: 269.952+/-266.245 χ^2/NDF : 24.3/22

Left: -525.161+/-185.759 χ^2/NDF : 97.6/47

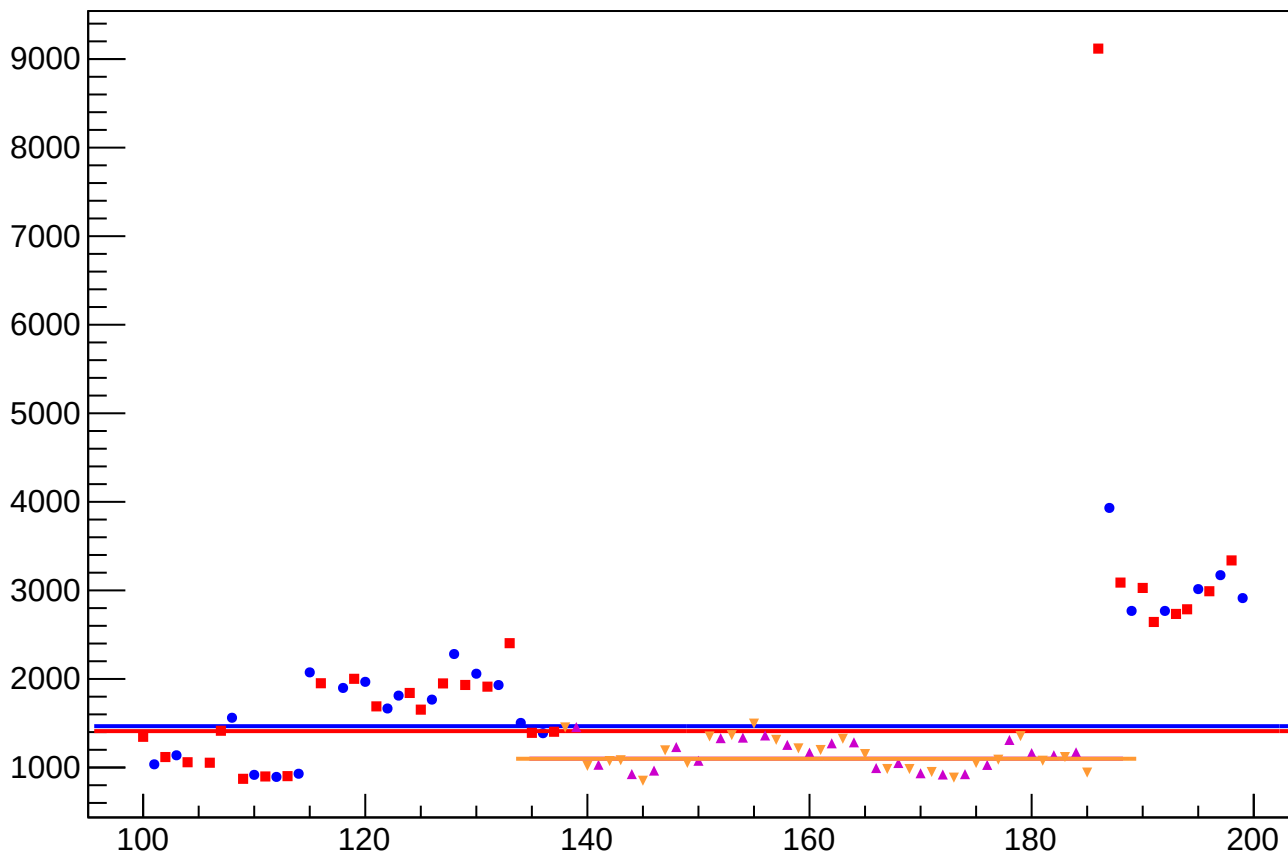
Right: 383.766+/-334.707 χ^2/NDF : 55.2/49

In: 92.440+/-234.492 χ^2/NDF : 57.1/45

Out: -683.304+/-225.189 χ^2/NDF : 95.6/51

All: -311.125+/-162.422 χ^2/NDF : 158.4/97

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1466.774 $\pm$ 0.350 χ^2 /NDF: 3413193.7/22

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1410.874 $\pm$ 0.321 χ^2 /NDF: 4767298.5/26

Left In: 1099.585 $\pm$ 0.188 χ^2 /NDF: 679896.1/22

Left: 1099.238 $\pm$ 0.131 χ^2 /NDF: 1504231.4/47

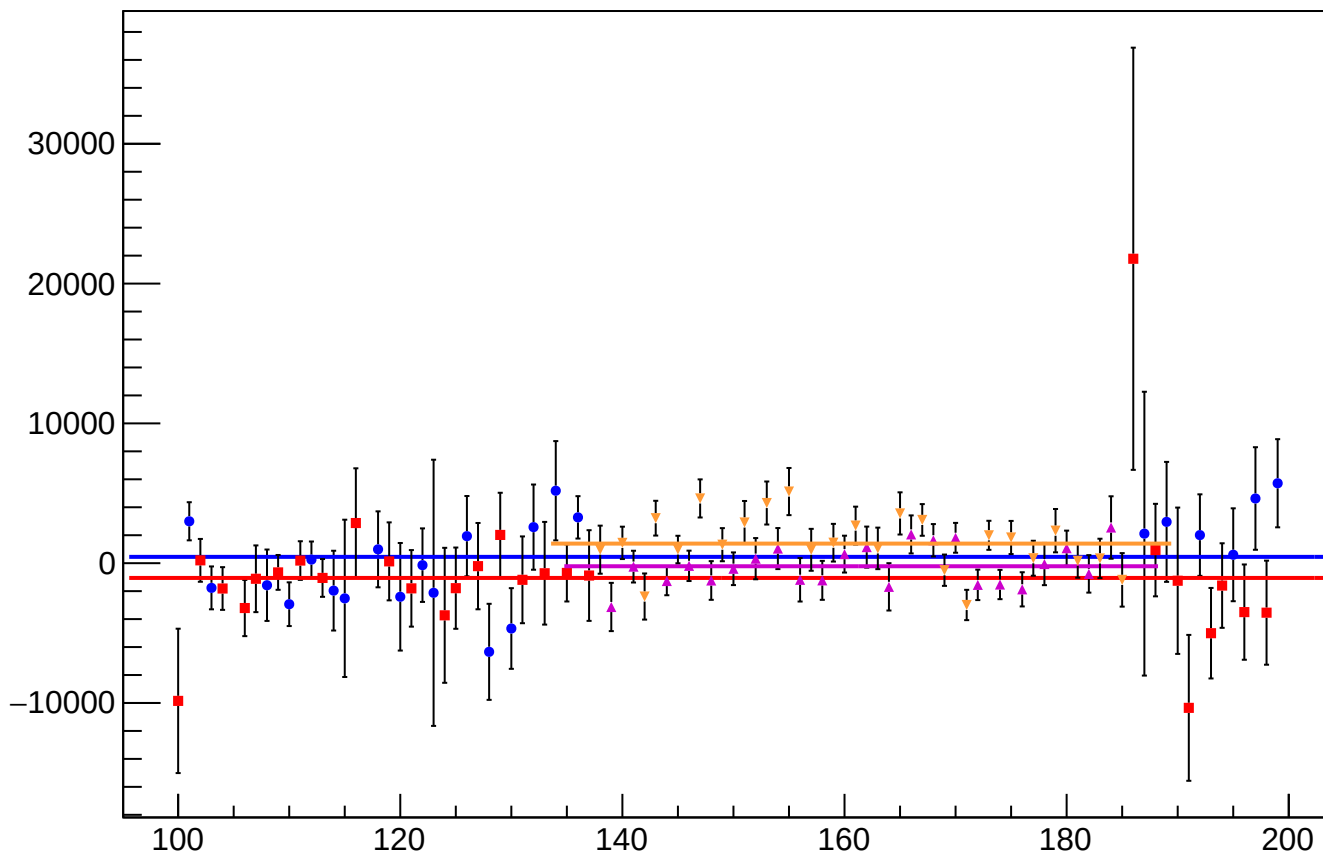
Right: 1436.420 $\pm$ 0.237 χ^2 /NDF: 8194335.6/49

In: 1181.947 $\pm$ 0.166 χ^2 /NDF: 4946357.9/45

Out: 1175.587 $\pm$ 0.159 χ^2 /NDF: 6303178.3/51

All: 1178.639 $\pm$ 0.115 χ^2 /NDF: 11250301.7/95

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 452.012+/-498.136 χ^2/NDF : 30.4/22

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1055.355+/-457.455 χ^2/NDF : 17.0/26

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

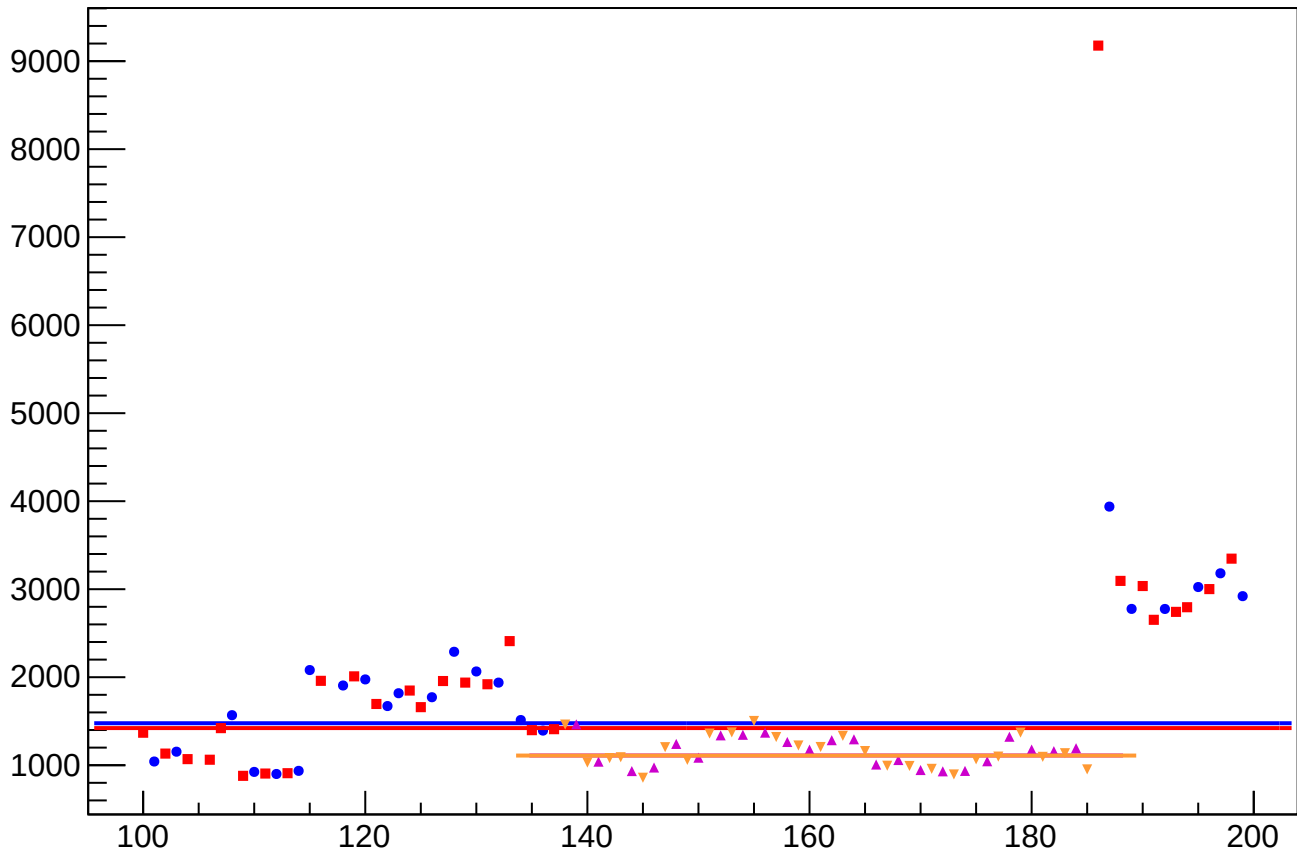
Right: -365.726+/-336.935 χ^2/NDF : 52.4/49

In: -67.935+/-236.592 χ^2/NDF : 56.8/45

Out: 794.551+/-227.224 χ^2/NDF : 90.9/51

All: 380.723+/-163.883 χ^2/NDF : 154.7/97

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: 1421.985 $\pm$ 0.323 χ^2 /NDF: 4729281.4/26

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

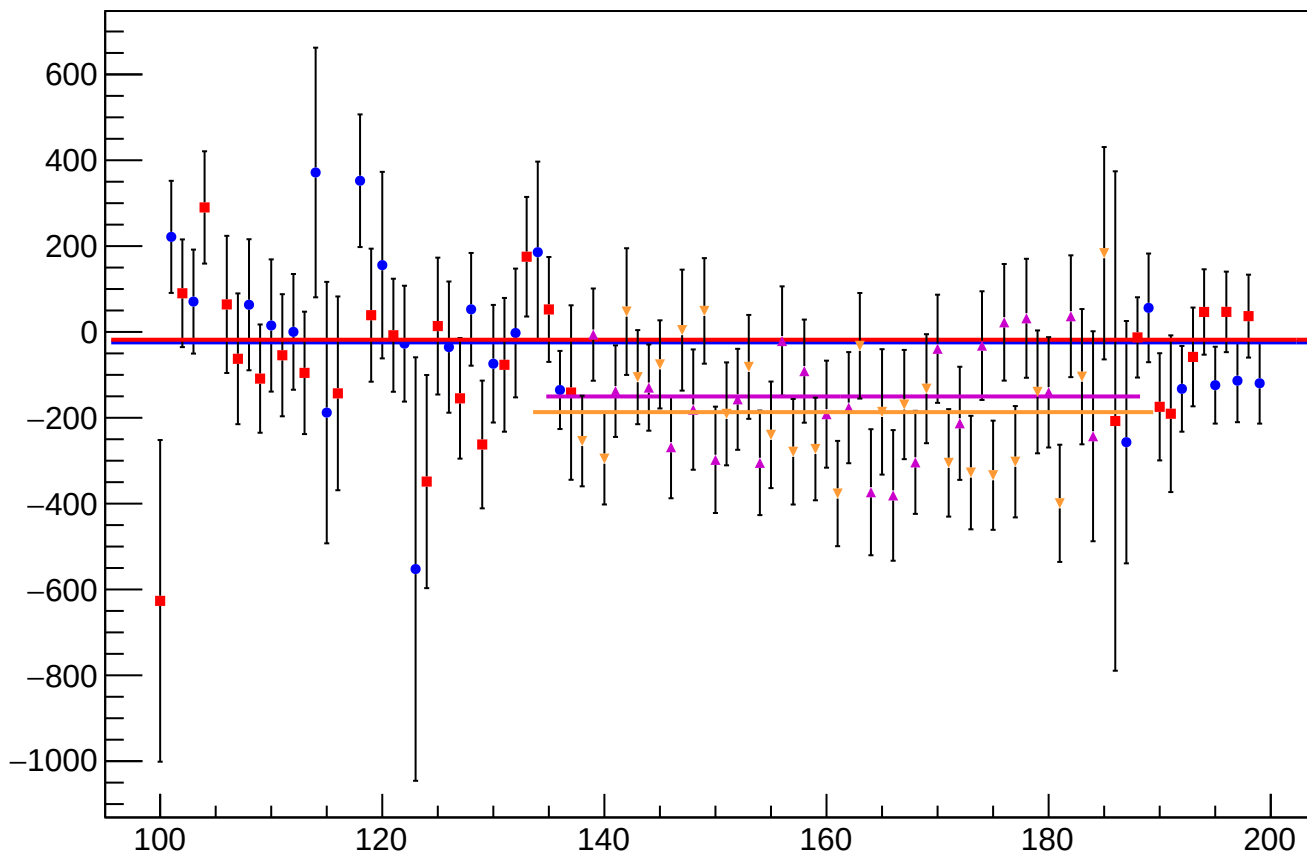
Right: 1447.153 $\pm$ 0.238 χ^2 /NDF: 8126438.6/49

In: 1193.208 $\pm$ 0.167 χ^2 /NDF: 4892059.3/45

Out: 1186.794 $\pm$ 0.161 χ^2 /NDF: 6243264.5/51

All: 1189.872 $\pm$ 0.116 χ^2 /NDF: 11136088.4/95

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: -18.140 ± 26.390 $\chi^2/\text{NDF}: 22.7/26$

Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$

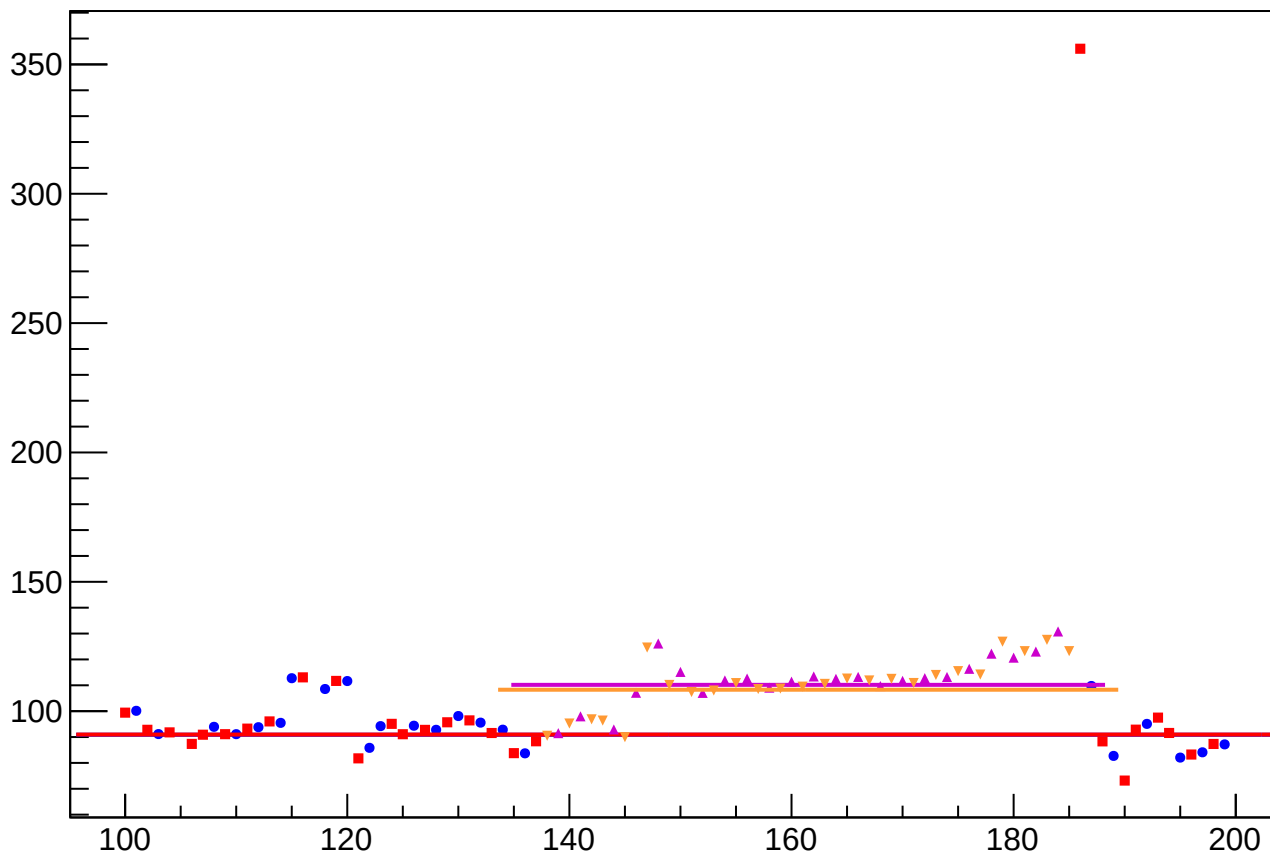
Right: -21.060 ± 19.212 $\chi^2/\text{NDF}: 45.6/49$

In: -90.981 ± 19.233 $\chi^2/\text{NDF}: 54.2/45$

Out: -106.019 ± 18.266 $\chi^2/\text{NDF}: 70.6/51$

All: -98.888 ± 13.245 $\chi^2/\text{NDF}: 125.2/97$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected

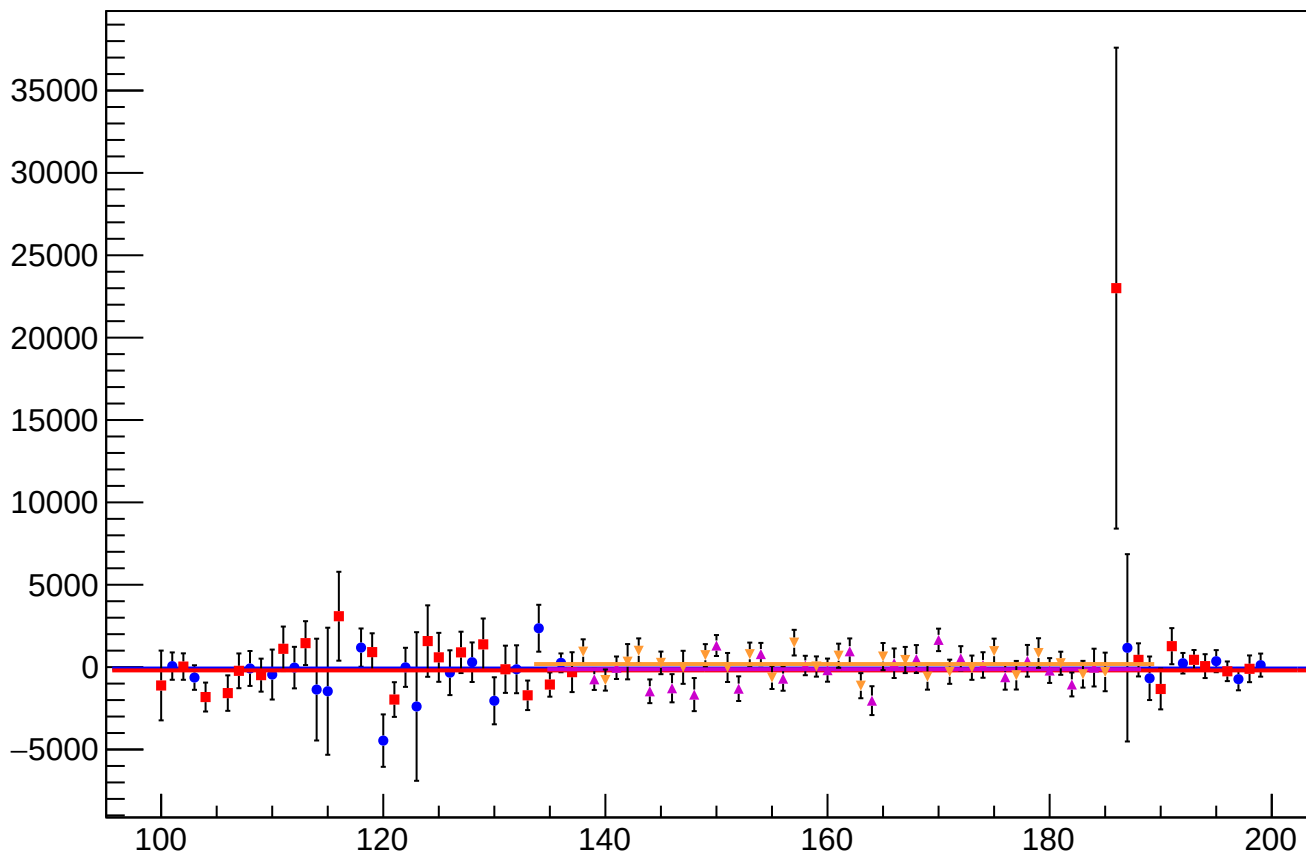


Right In: 90.882 $\pm$ 0.020 χ^2 /NDF: 144799.6/22
 Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24
 Right Out: 90.958 $\pm$ 0.019 χ^2 /NDF: 563591.7/26
 Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47
 Right: 90.923 $\pm$ 0.014 χ^2 /NDF: 708399.1/49
 In: 101.086 $\pm$ 0.014 χ^2 /NDF: 893068.7/45
 Out: 99.986 $\pm$ 0.013 χ^2 /NDF: 1343507.2/51

All: 100.508 $\pm$ 0.009 χ^2 /NDF: 2240021.0/97

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -86.266 ± 210.195 χ^2/NDF : 17.2/22

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -198.295 ± 195.152 χ^2/NDF : 27.0/26

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

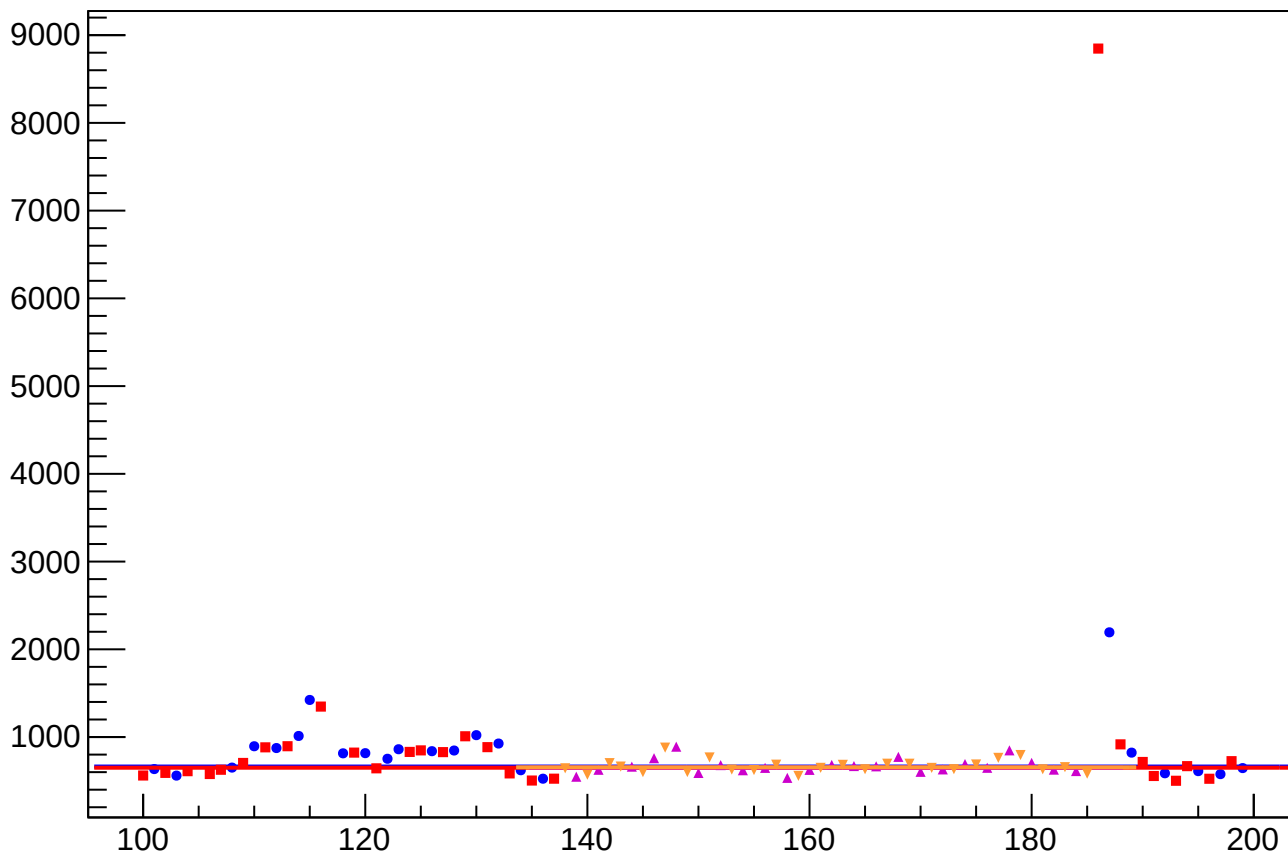
Right: -146.432 ± 143.016 χ^2/NDF : 44.3/49

In: -113.537 ± 125.865 χ^2/NDF : 53.5/45

Out: 38.525 ± 120.739 χ^2/NDF : 47.7/51

All: -34.346 ± 87.131 χ^2/NDF : 102.0/97

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: 650.505+/-0.138 χ^2/NDF : 1720946.5/26

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

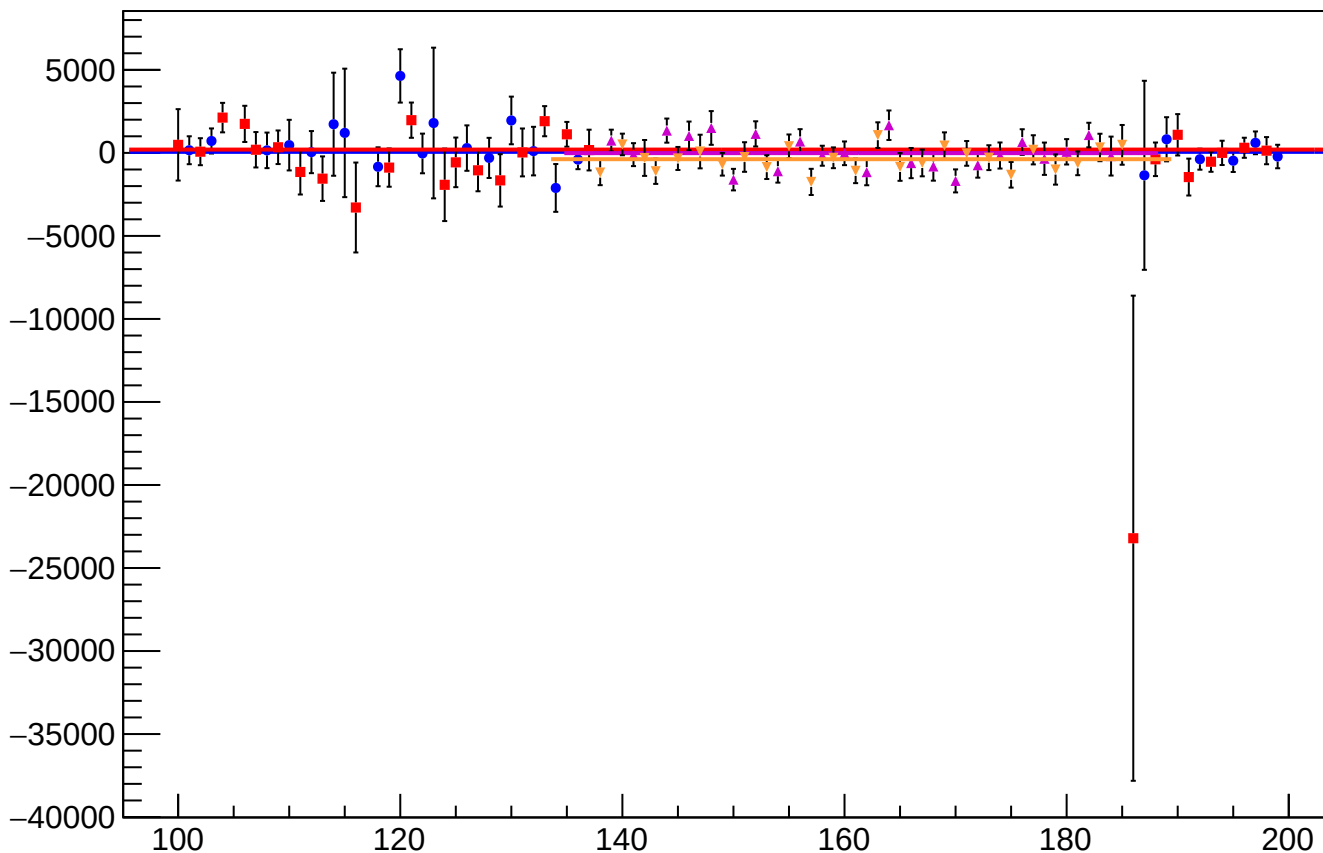
Right: 656.777+/-0.101 χ^2/NDF : 2677888.2/49

In: 655.605+/-0.089 χ^2/NDF : 1423632.2/45

Out: 653.375+/-0.085 χ^2/NDF : 2088997.3/51

All: 654.444+/-0.062 χ^2/NDF : 3512956.6/97

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: 200.104 ± 197.348 $\chi^2/\text{NDF}: 30.7/26$

Left In: -14.768 ± 159.513 $\chi^2/\text{NDF}: 37.2/22$

Left: -201.306 ± 111.491 $\chi^2/\text{NDF}: 58.7/47$

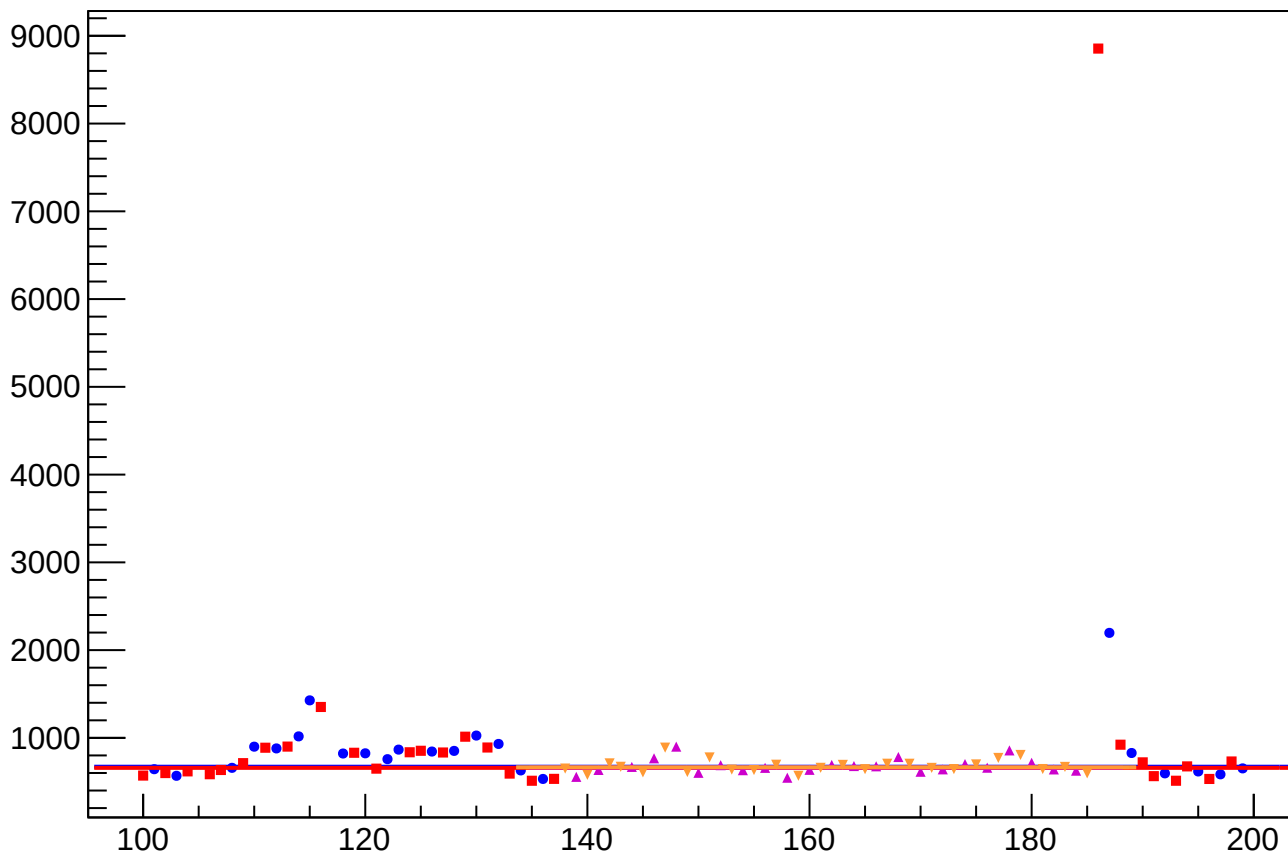
Right: 136.372 ± 144.565 $\chi^2/\text{NDF}: 48.0/49$

In: 13.126 ± 127.543 $\chi^2/\text{NDF}: 54.4/45$

Out: -156.777 ± 122.330 $\chi^2/\text{NDF}: 54.8/51$

All: -75.369 ± 88.286 $\chi^2/\text{NDF}: 110.1/97$

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: 658.500+/-0.140 χ^2/NDF : 1686528.6/26

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

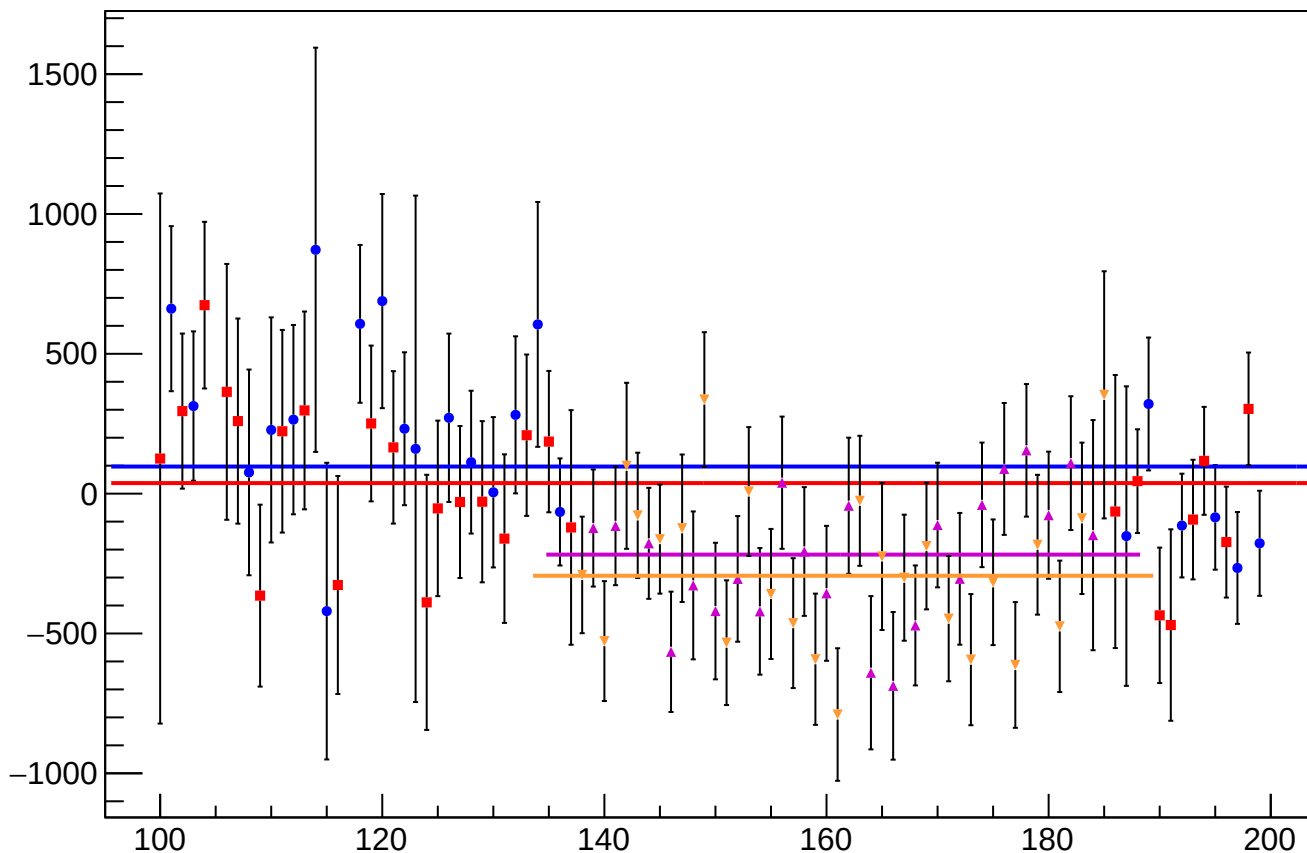
Right: 664.486+/-0.102 χ^2/NDF : 2621563.4/49

In: 664.687+/-0.090 χ^2/NDF : 1383385.9/45

Out: 662.362+/-0.087 χ^2/NDF : 2044826.5/51

All: 663.476+/-0.062 χ^2/NDF : 3428558.6/97

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected

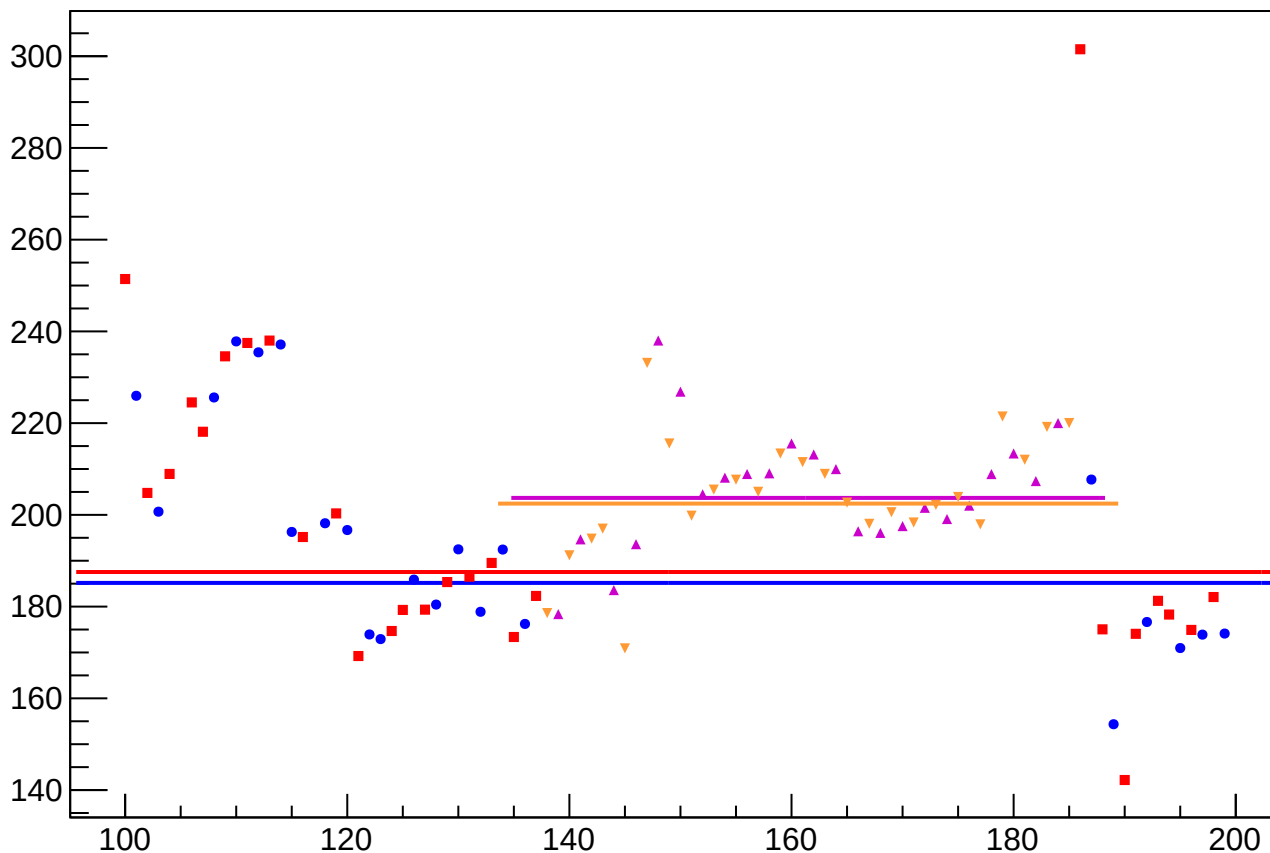


Right In: 96.891 ± 57.274 $\chi^2/\text{NDF}: 24.4/22$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 37.769 ± 54.385 $\chi^2/\text{NDF}: 22.1/26$
 Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$
 Right: 65.801 ± 39.438 $\chi^2/\text{NDF}: 47.1/49$
 In: -85.470 ± 37.153 $\chi^2/\text{NDF}: 63.2/45$
 Out: -151.220 ± 35.648 $\chi^2/\text{NDF}: 73.6/51$

All: -119.704 ± 25.723 $\chi^2/\text{NDF}: 138.5/97$

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: 187.542 $\pm$ 0.038 χ^2 /NDF: 407482.6/26

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

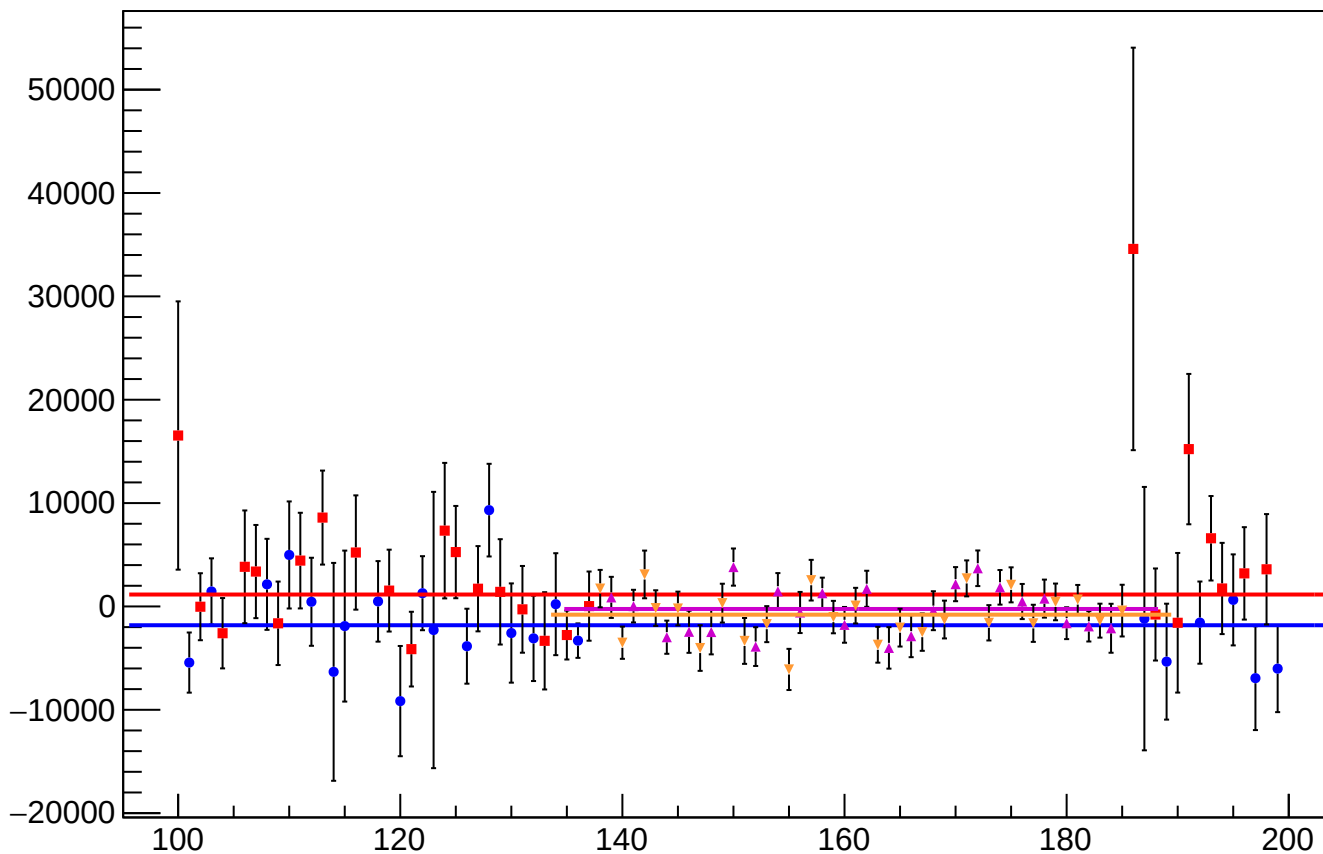
Right: 186.415 $\pm$ 0.028 χ^2 /NDF: 652146.7/49

In: 195.900 $\pm$ 0.026 χ^2 /NDF:500340.5/45

Out: 196.050 $\pm$ 0.025 χ^2 /NDF:651875.0/51

All: 195.978 $\pm$ 0.018 χ^2 /NDF: 1152232.4/97

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: 1153.294 $\pm$ 836.155 χ^2 /NDF: 24.5/26

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

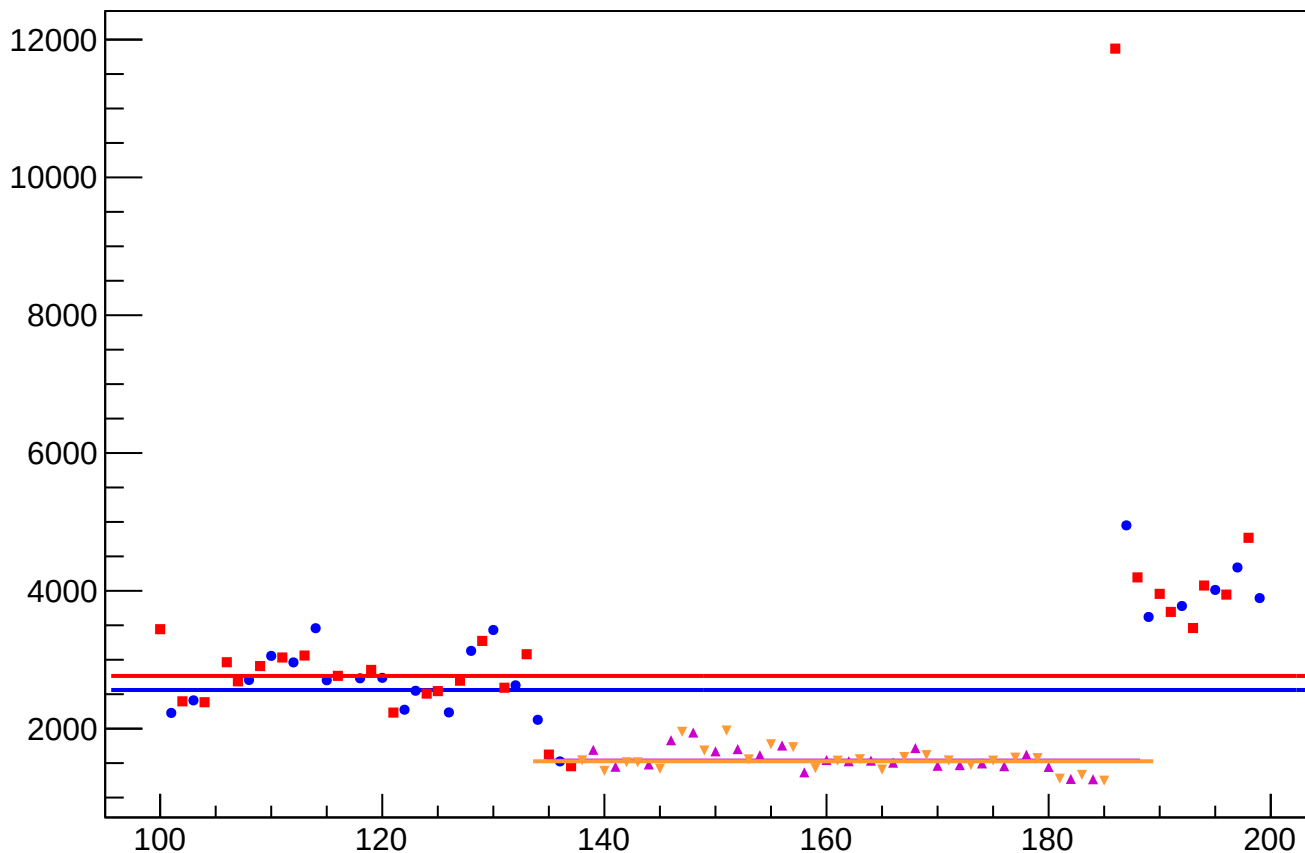
Right: -342.553 $\pm$ 589.259 χ^2 /NDF: 49.7/49

In: -505.454 $\pm$ 337.862 χ^2 /NDF: 57.6/45

Out: -494.684 $\pm$ 328.988 χ^2 /NDF: 64.8/51

All: -499.926 $\pm$ 235.705 χ^2 /NDF: 122.4/97

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: 2764.941+/-0.591 χ^2/NDF : 2328019.2/26

Left In: 1536.538+/-0.262 χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182 χ^2/NDF : 745995.2/47

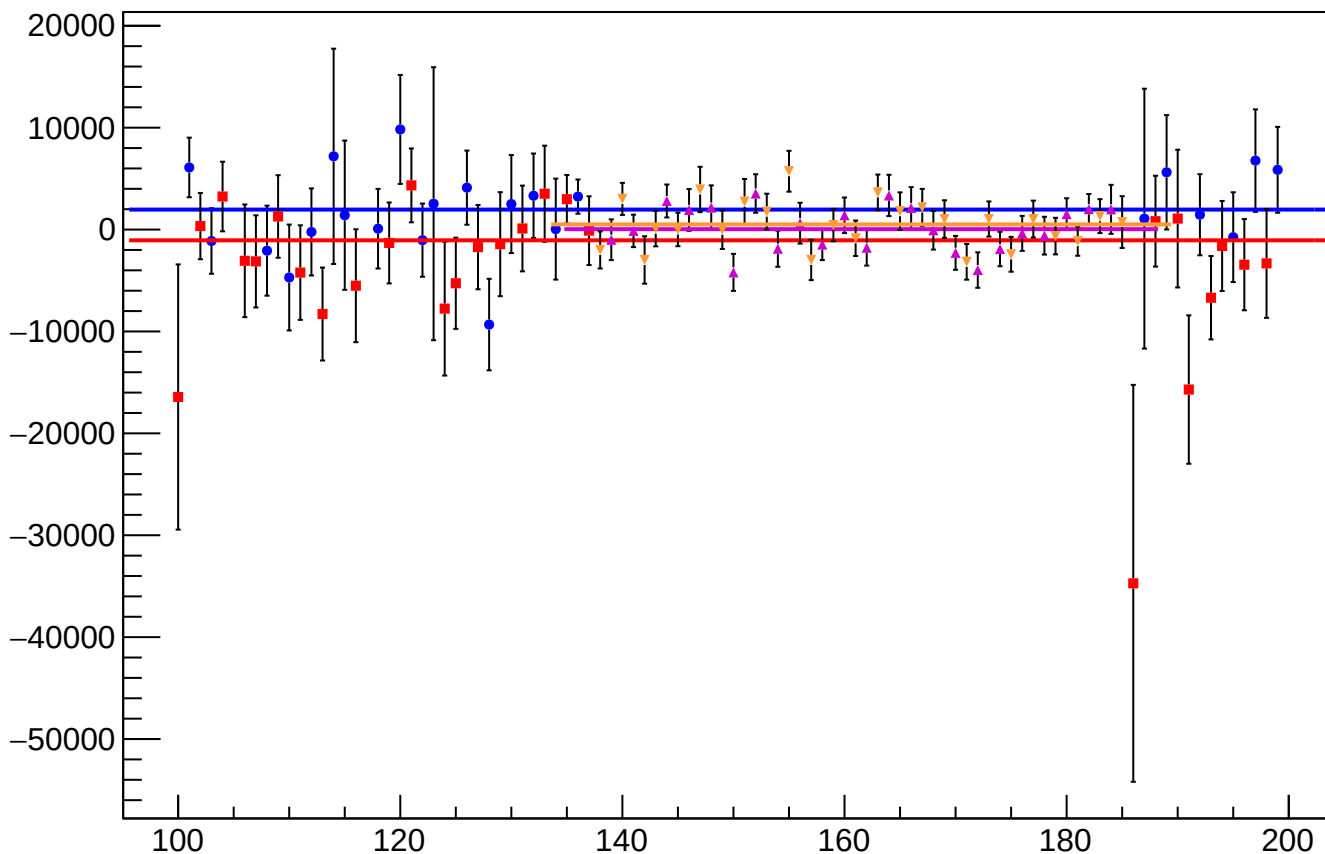
Right: 2662.380+/-0.417 χ^2/NDF : 4392657.5/49

In: 1706.098+/-0.239 χ^2/NDF : 4895558.8/45

Out: 1718.397+/-0.233 χ^2/NDF : 6429847.8/51

All: 1712.411+/-0.167 χ^2/NDF : 11326766.8/95

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1962.149+/-833.726 χ^2/NDF : 19.1/22

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -1054.729+/-839.048 χ^2/NDF : 25.3/26

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

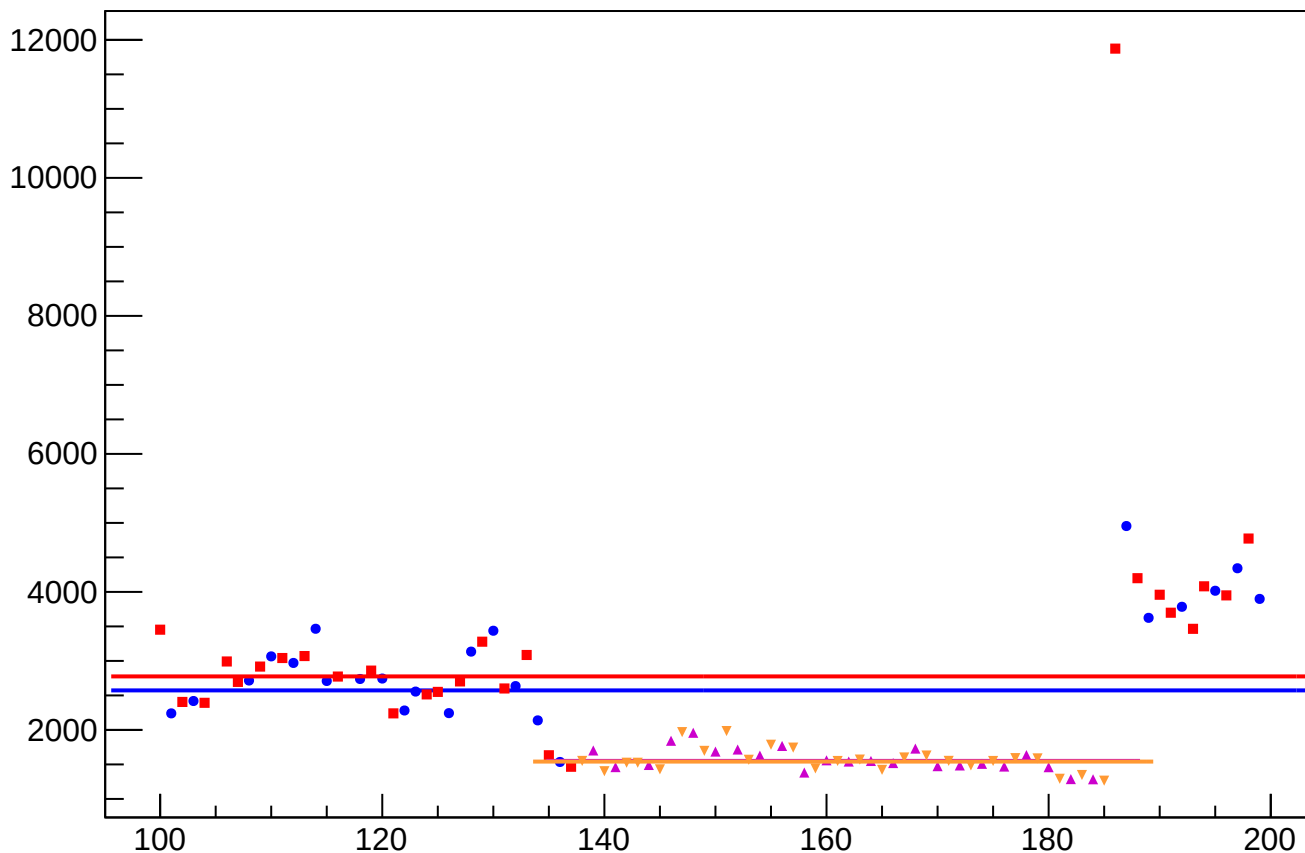
Right: 463.309+/-591.406 χ^2/NDF : 50.9/49

In: 361.008+/-340.677 χ^2/NDF : 57.1/45

Out: 263.690+/-331.743 χ^2/NDF : 63.6/51

All: 311.056+/-237.674 χ^2/NDF : 120.8/97

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: 2673.536 $\pm$ 0.418

χ^2/NDF : 4344857.5/49

Right Out: 2775.556 $\pm$ 0.593

χ^2/NDF : 2306698.4/26

In: 1721.664 $\pm$ 0.241

χ^2/NDF : 4820522.9/45

Out: 1734.211 $\pm$ 0.235

χ^2/NDF : 6340241.7/51

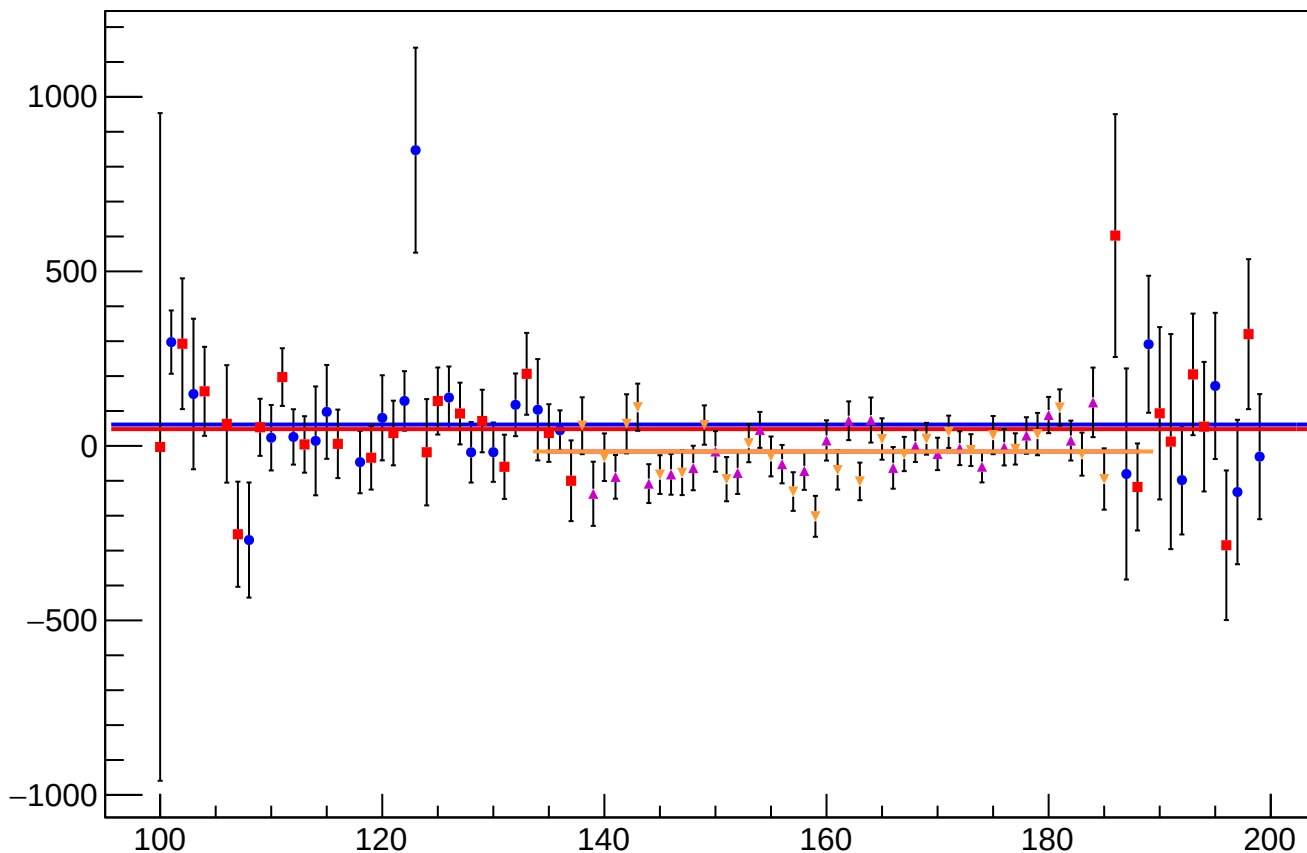
Left In: 1551.063 $\pm$ 0.264

χ^2/NDF : 338898.9/22

All: 1728.104 $\pm$ 0.168

χ^2/NDF : 11162157.0/9

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: 48.077 ± 22.470 $\chi^2/\text{NDF}: 26.2/26$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

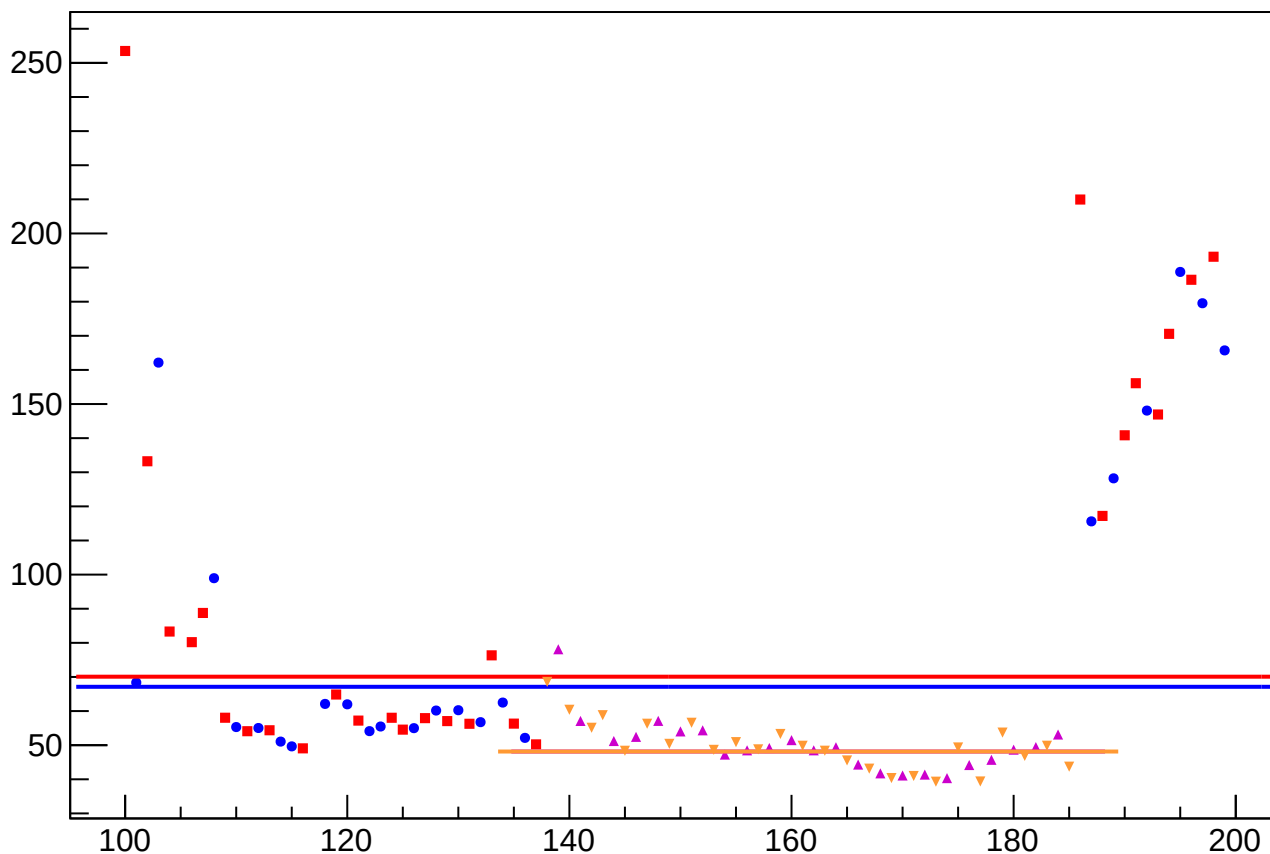
Right: 54.506 ± 16.008 $\chi^2/\text{NDF}: 54.3/49$

In: -0.173 ± 10.375 $\chi^2/\text{NDF}: 62.2/45$

Out: -3.032 ± 10.124 $\chi^2/\text{NDF}: 72.4/51$

All: -1.638 ± 7.246 $\chi^2/\text{NDF}: 134.6/97$

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 67.115 $\pm$ 0.016 χ^2/NDF : 3539617.8/22

Left Out: 48.141 $\pm$ 0.008 χ^2/NDF : 655250.3/24

Right Out: 70.077 $\pm$ 0.016 χ^2/NDF : 4150673.6/26

Left In: 48.139 $\pm$ 0.008 χ^2/NDF : 575025.5/22

Left: 48.140 $\pm$ 0.006 χ^2/NDF : 1230275.9/47

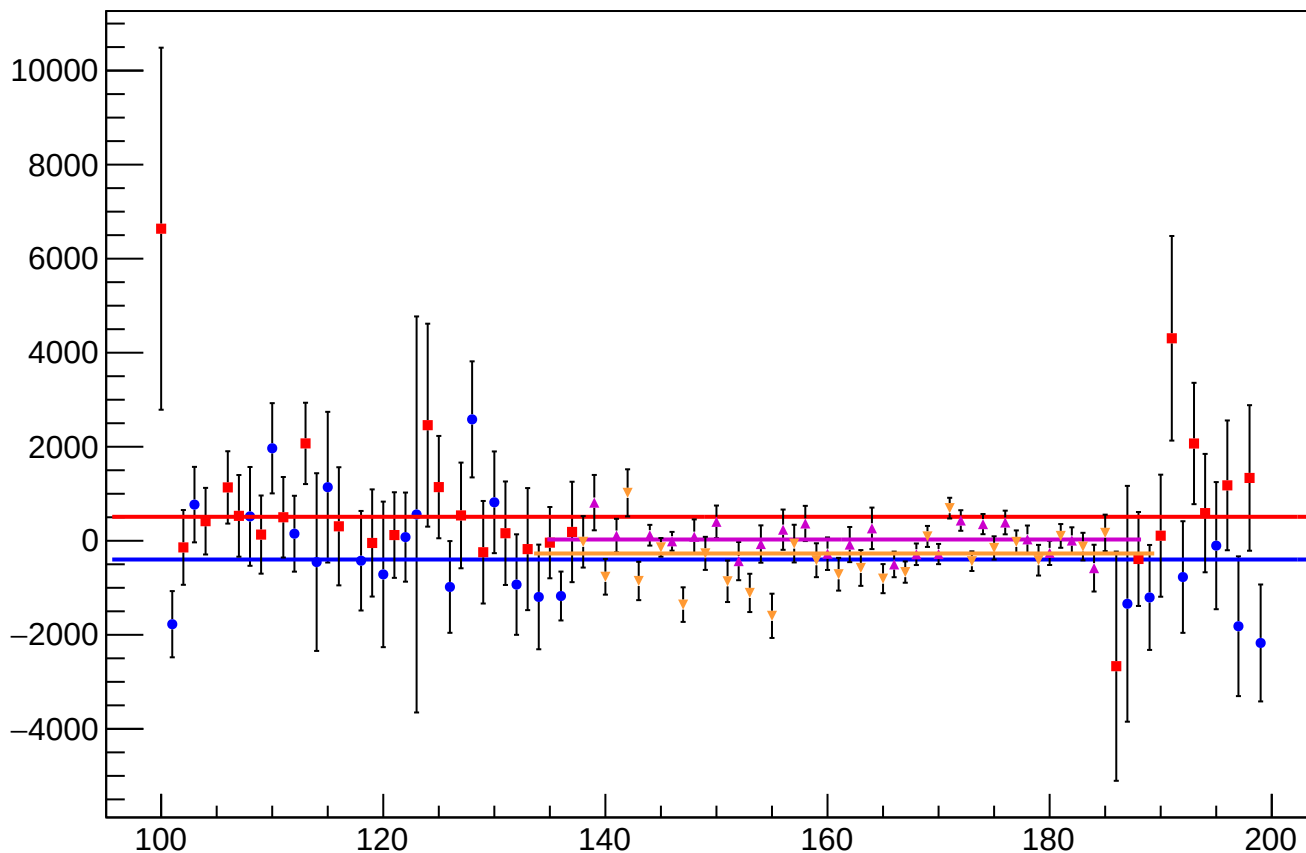
Right: 68.618 $\pm$ 0.011 χ^2/NDF : 7707412.0/49

In: 52.064 $\pm$ 0.007 χ^2/NDF : 5212275.6/45

Out: 52.594 $\pm$ 0.007 χ^2/NDF : 6325152.4/51

All: 52.335 $\pm$ 0.005 χ^2/NDF : 11540095.8/97

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: 510.021 ± 202.885 χ^2/NDF : 18.0/26

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

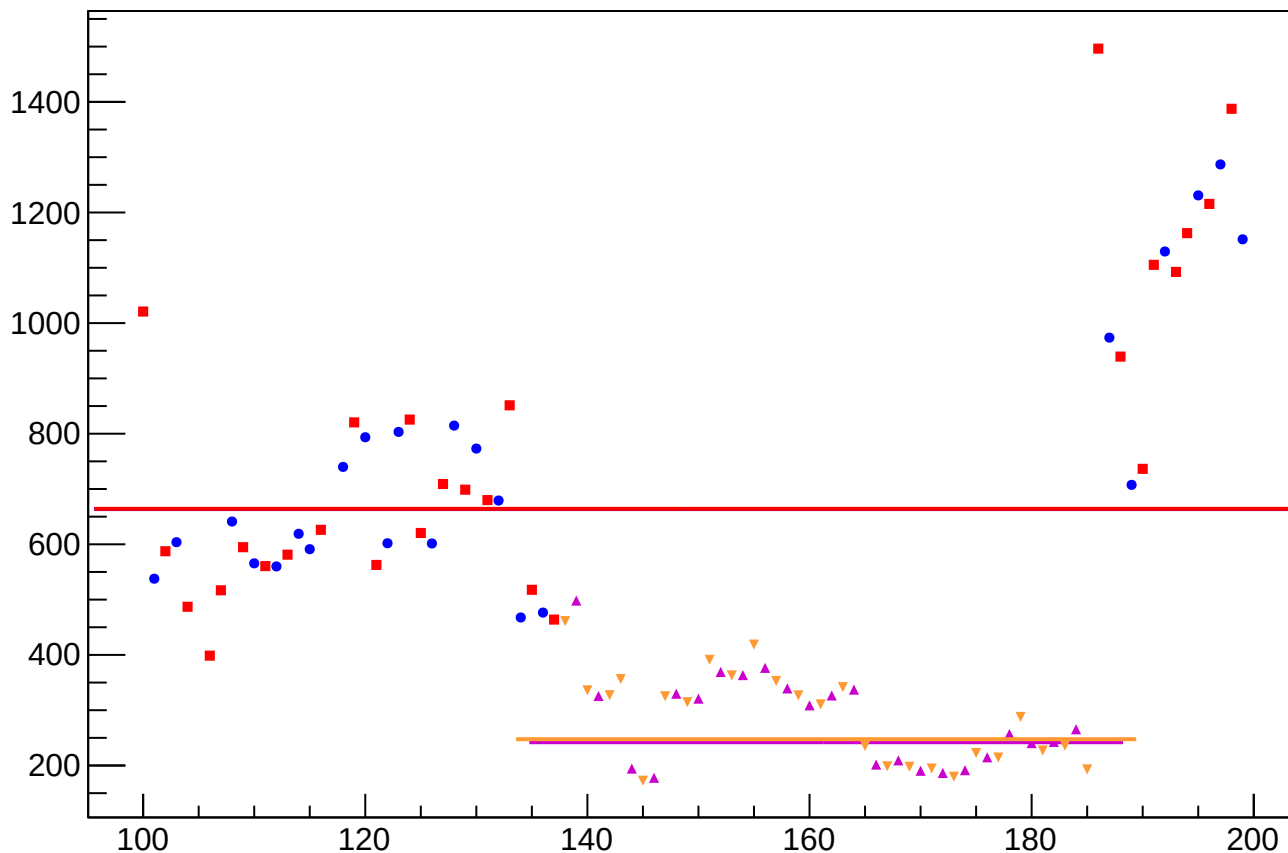
Right: 83.514 ± 147.759 χ^2/NDF : 56.2/49

In: -3.716 ± 58.188 χ^2/NDF : 57.4/45

Out: -207.122 ± 57.693 χ^2/NDF : 101.7/51

All: -106.288 ± 40.969 χ^2/NDF : 165.3/97

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 663.731 $\pm$ 0.152 χ^2 /NDF: 1903792.9/22

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF: 2780931.0/24

Right Out: 664.093 $\pm$ 0.143 χ^2 /NDF: 2552573.8/26

Left In: 242.117 $\pm$ 0.043 χ^2 /NDF: 2466108.9/22

Left: 244.855 $\pm$ 0.030 χ^2 /NDF: 5255218.1/47

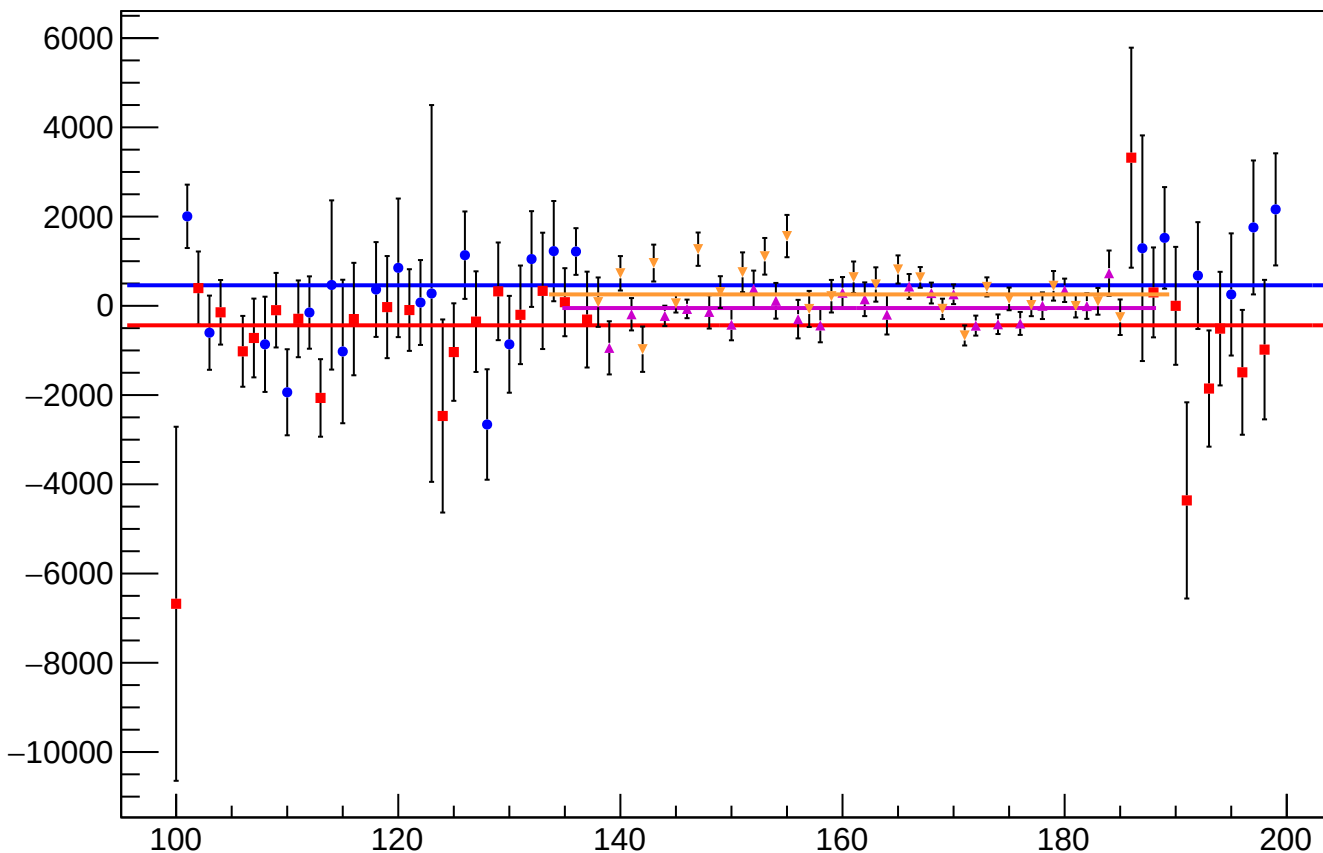
Right: 663.923 $\pm$ 0.104 χ^2 /NDF: 4456369.7/49

In: 272.821 $\pm$ 0.041 χ^2 /NDF: 11459773.5/45

Out: 281.251 $\pm$ 0.041 χ^2 /NDF: 13081487.4/51

All: 277.072 $\pm$ 0.029 χ^2 /NDF: 24562430.3/97

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: -436.924 $\pm$ 205.209 χ^2/NDF : 18.9/26

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

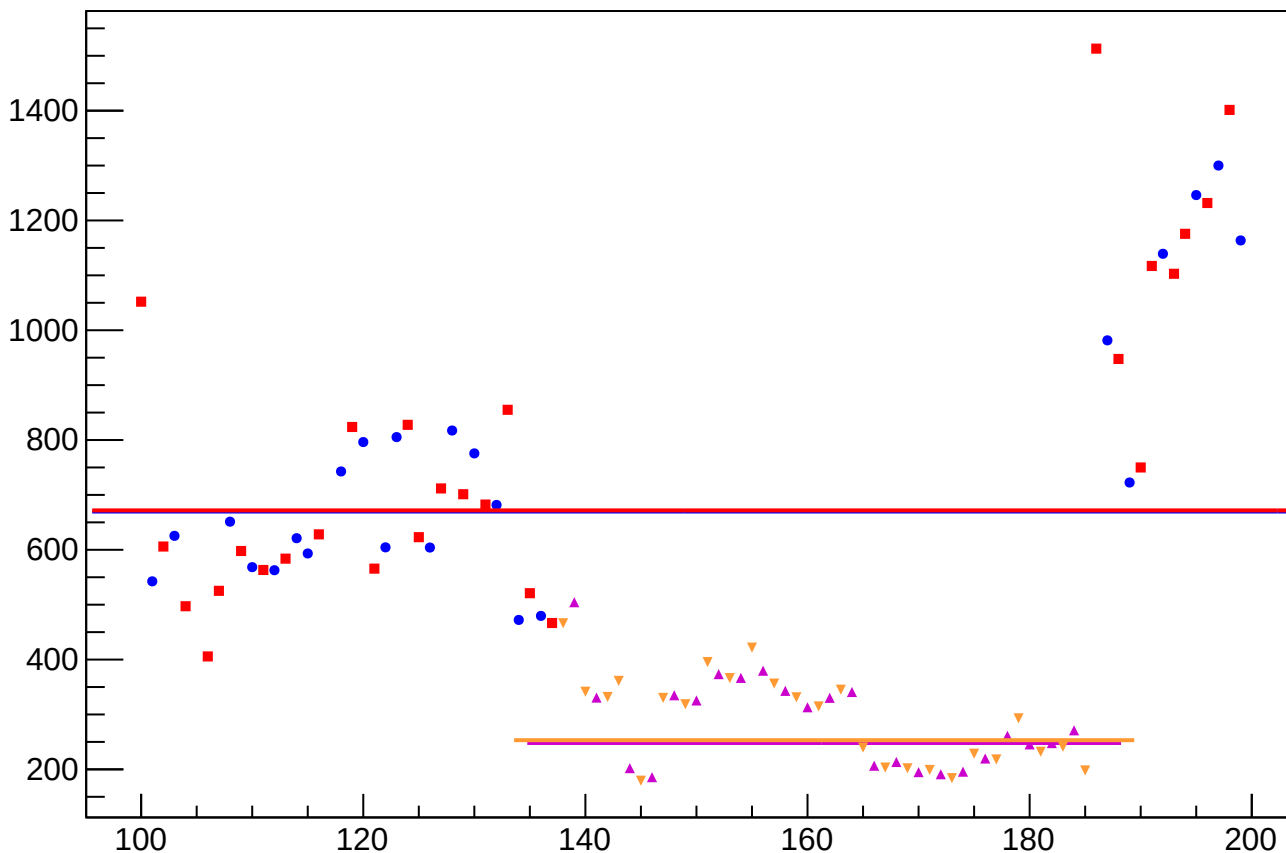
Right: -14.536 $\pm$ 149.286 χ^2/NDF : 58.4/49

In: -11.770 $\pm$ 59.432 χ^2/NDF : 63.1/45

Out: 199.028 $\pm$ 58.840 χ^2/NDF : 92.9/51

All: 94.684 $\pm$ 41.814 χ^2/NDF : 162.4/97

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: 671.798 $\pm$ 0.145 χ^2 /NDF: 2529755.2/26

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

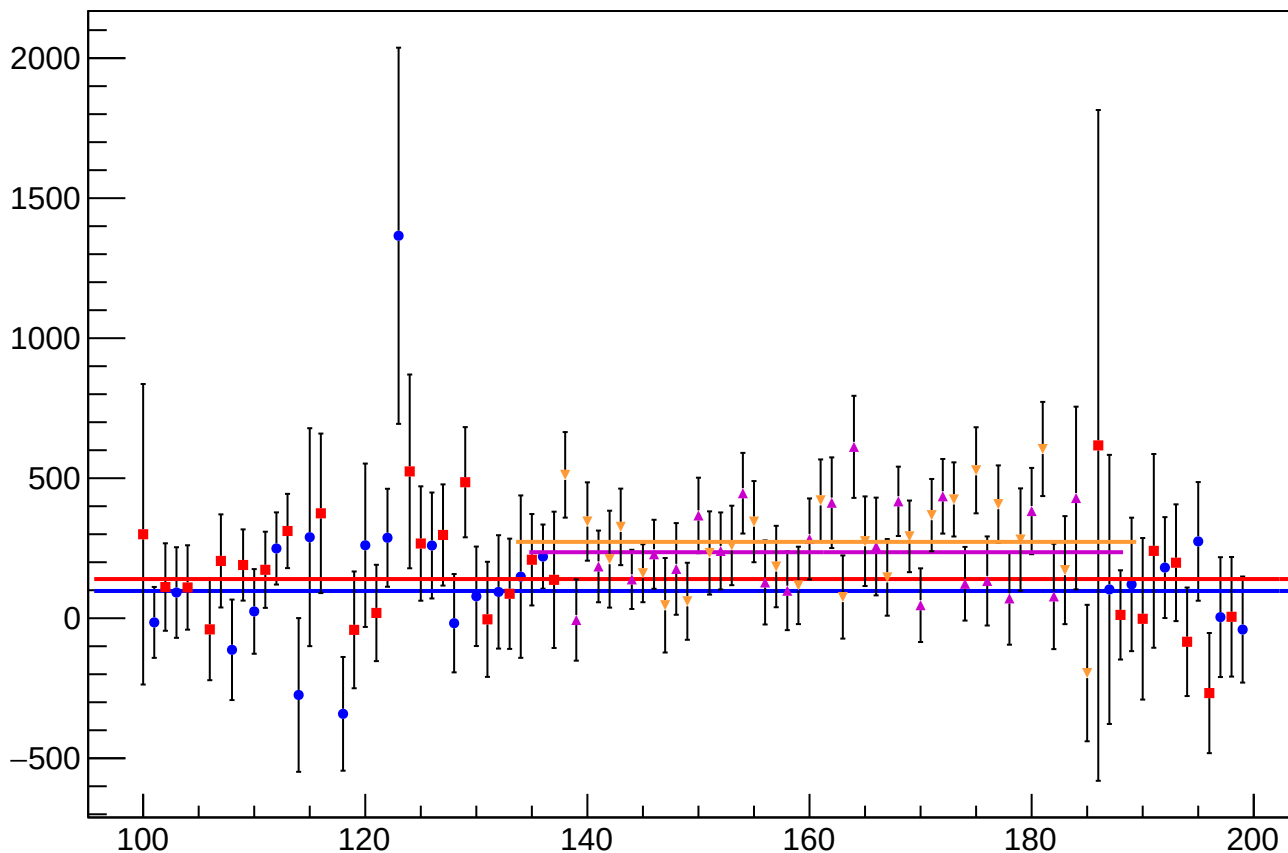
Right: 670.828 $\pm$ 0.106 χ^2 /NDF: 4438570.2/49

In: 279.530 $\pm$ 0.042 χ^2 /NDF: 11203390.8/45

Out: 287.557 $\pm$ 0.042 χ^2 /NDF: 12835904.3/51

All: 283.584 $\pm$ 0.030 χ^2 /NDF: 24057717.3/97

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: 139.956 $\pm$ 36.676 χ^2 /NDF: 17.9/26

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

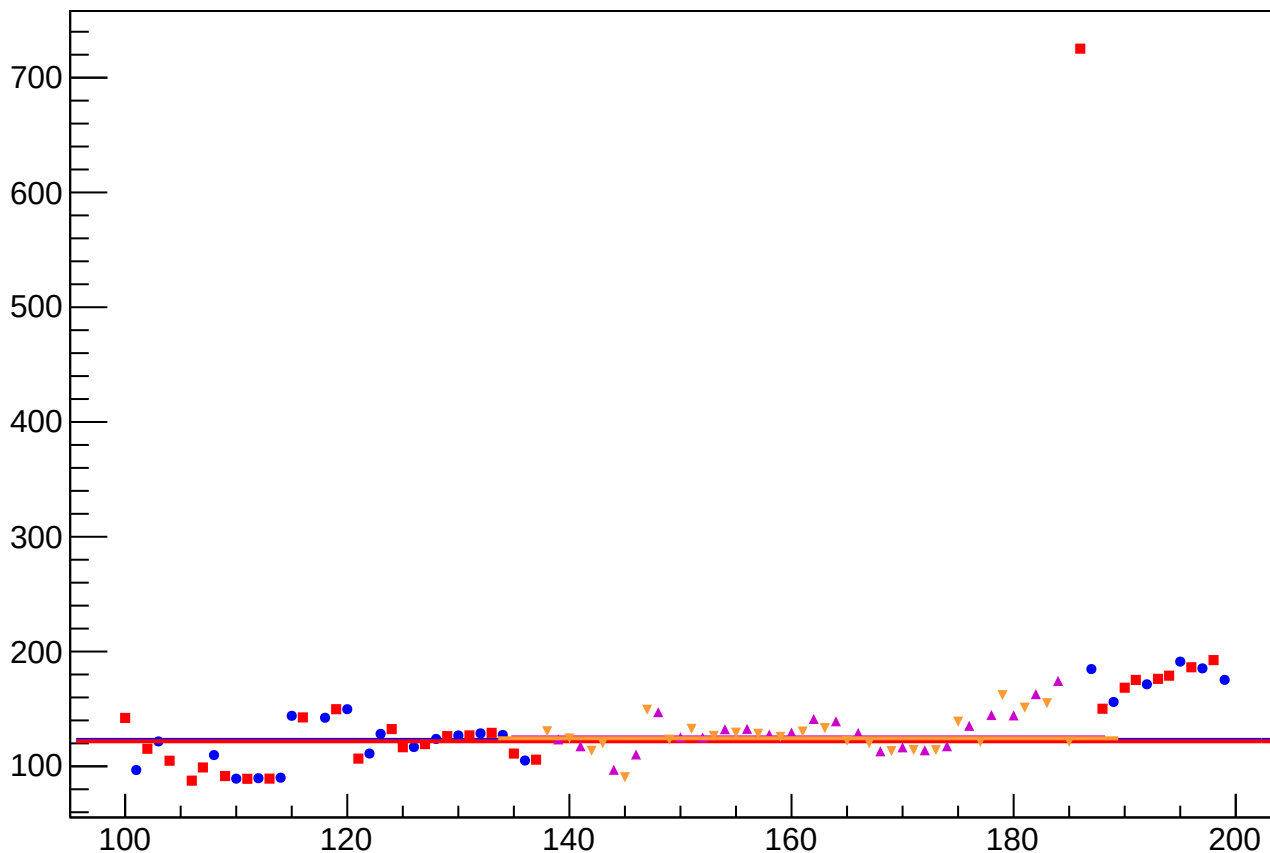
Right: 119.984 $\pm$ 26.734 χ^2 /NDF: 38.1/49

In: 183.917 $\pm$ 23.905 χ^2 /NDF:52.1/45

Out: 221.146 $\pm$ 22.854 χ^2 /NDF:53.3/51

All: 203.368 $\pm$ 16.520 χ^2 /NDF: 106.6/97

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: 121.815 $\pm$ 0.026 χ^2 /NDF: 1959710.7/26

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

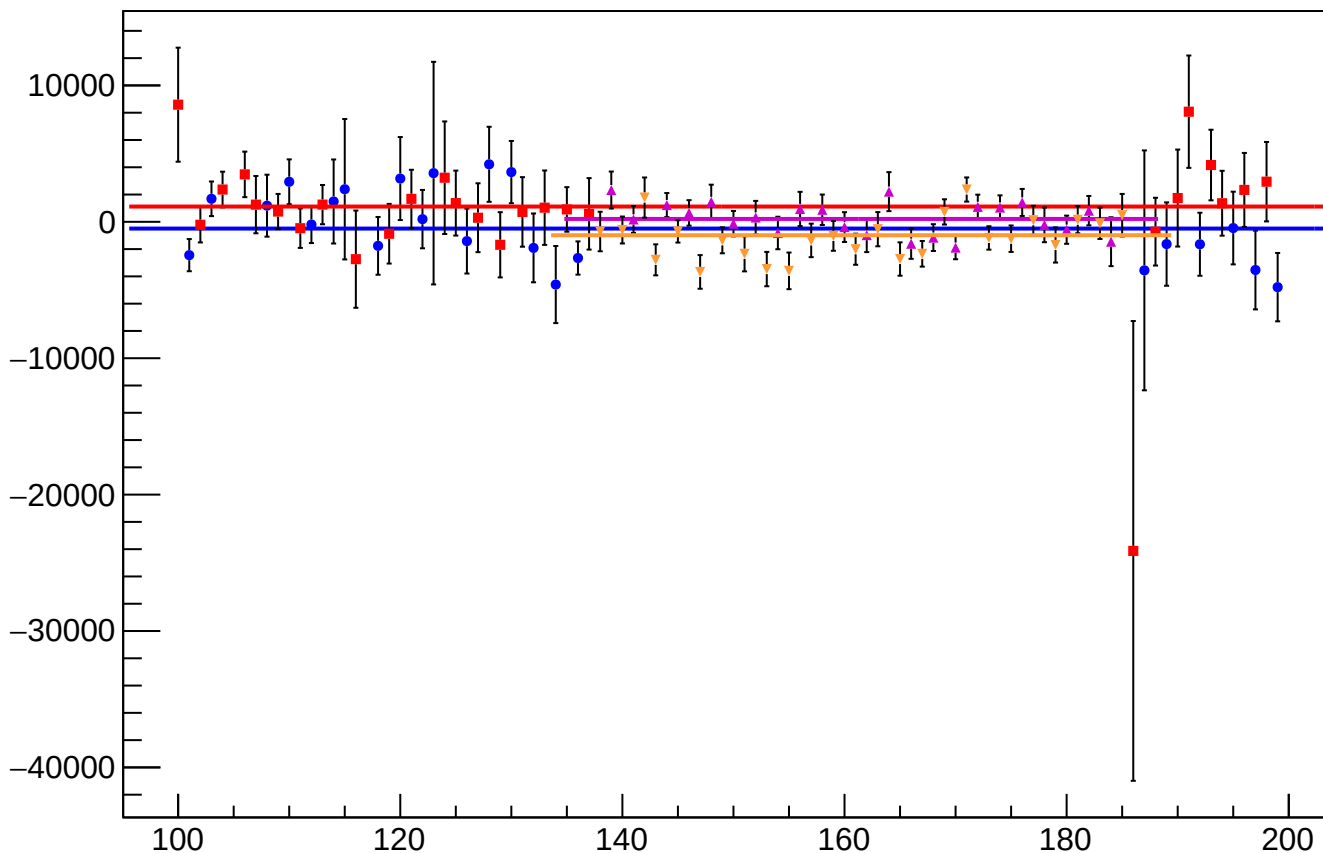
Right: 122.379 $\pm$ 0.019 χ^2 /NDF: 3170311.4/49

In: 124.386 $\pm$ 0.017 χ^2 /NDF: 1714893.0/45

Out: 123.414 $\pm$ 0.016 χ^2 /NDF: 2505657.6/51

All: 123.878 $\pm$ 0.012 χ^2 /NDF: 4222279.9/97

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: 1120.288+/-403.275 χ^2/NDF : 20.0/26

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

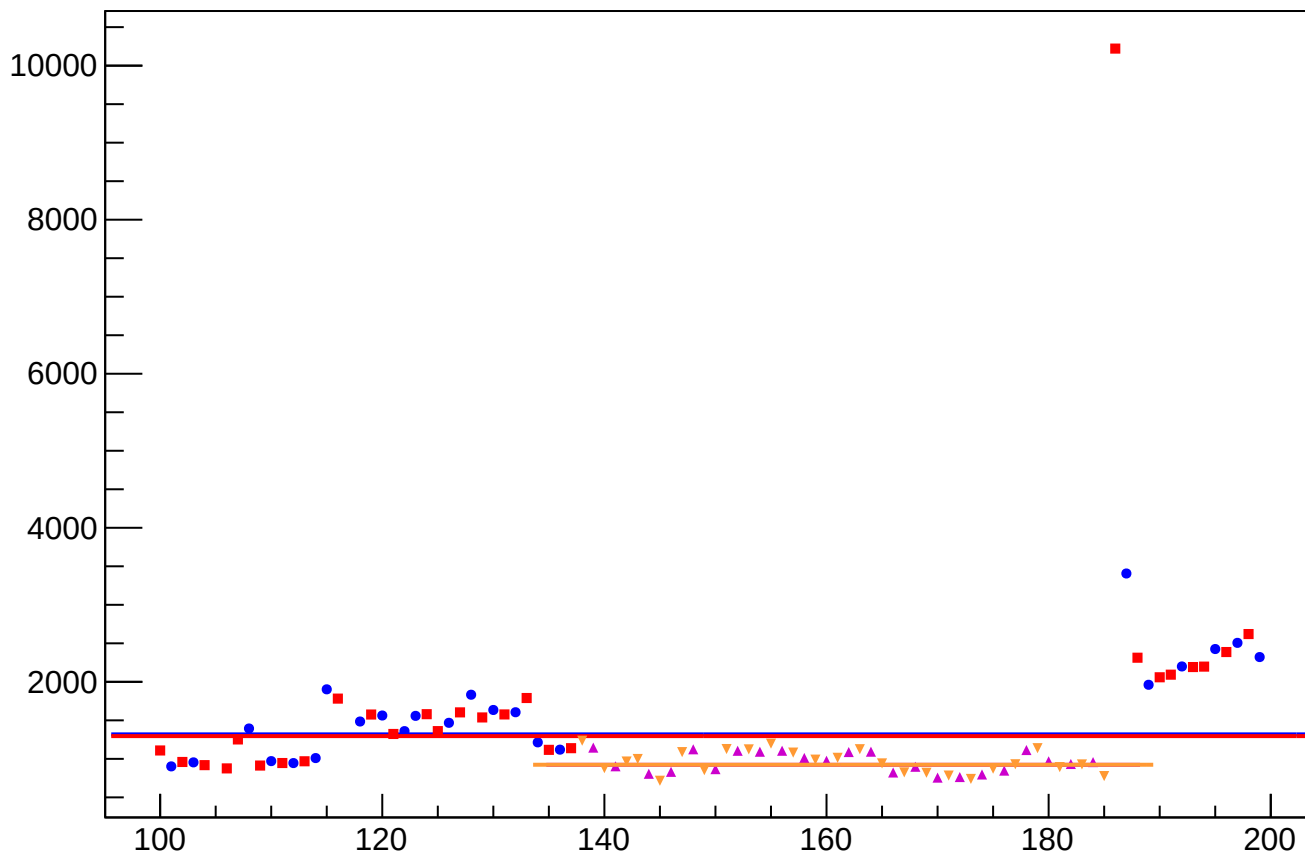
Right: 369.905+/-295.064 χ^2/NDF : 57.5/49

In: 63.024+/-198.447 χ^2/NDF : 57.8/45

Out: -507.171+/-191.788 χ^2/NDF : 88.3/51

All: -231.801+/-137.909 χ^2/NDF : 150.3/97

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: 1295.315+/-0.285 χ^2/NDF : 3409446.5/26

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

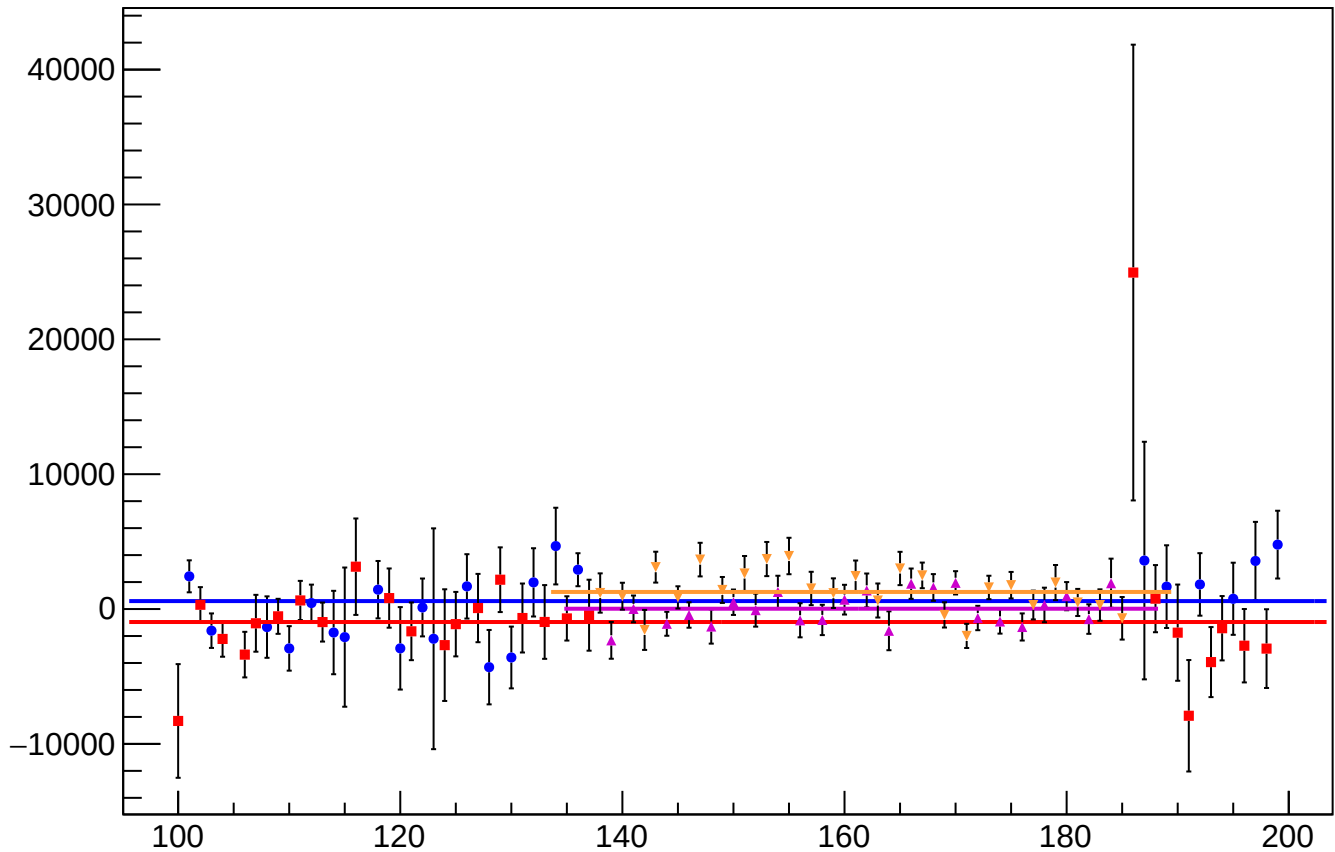
Right: 1305.772+/-0.209 χ^2/NDF : 5836107.3/49

In: 1005.388+/-0.140 χ^2/NDF : 4377707.5/45

Out: 1007.661+/-0.136 χ^2/NDF : 5567197.2/51

All: 1006.563+/-0.098 χ^2/NDF : 9945040.3/97

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 589.872 $\pm$ 434.878 χ^2 /NDF: 30.1/22

Left Out: 1267.344 $\pm$ 220.133 χ^2 /NDF:44.9/24

Right Out: -961.709 $\pm$ 405.346 χ^2 /NDF: 20.4/26

Left In: 23.478 $\pm$ 225.490 χ^2 /NDF:27.2/22

Left: 660.362 $\pm$ 157.518 χ^2 /NDF: 87.7/47

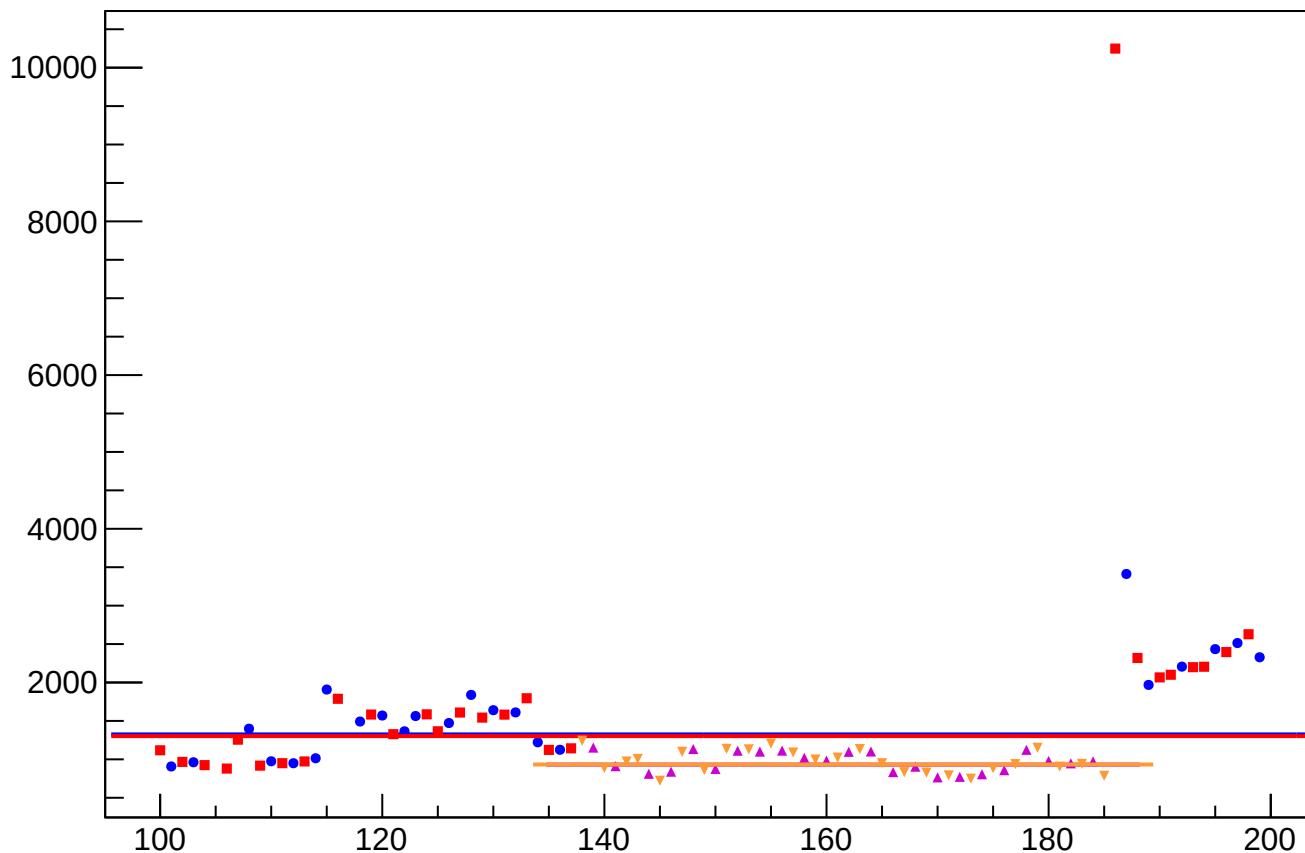
Right: -240.386 $\pm$ 296.514 χ^2 /NDF: 57.3/49

In: 143.490 $\pm$ 200.180 χ^2 /NDF:58.6/45

Out: 759.661 $\pm$ 193.447 χ^2 /NDF:88.7/51

All: 462.112 $\pm$ 139.107 χ^2 /NDF: 152.2/97

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: 1302.258+/-0.287 χ^2/NDF : 3392797.9/26

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

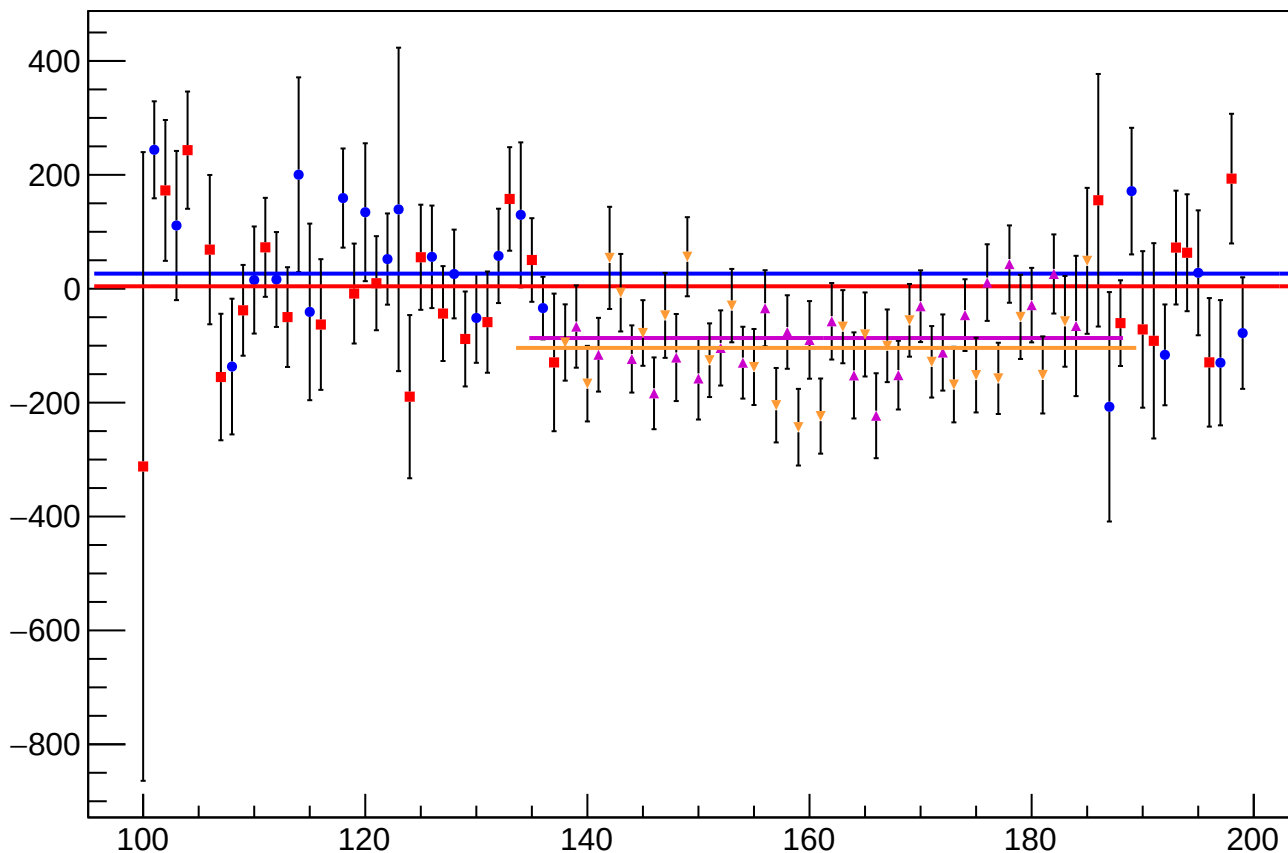
Right: 1312.592+/-0.210 χ^2/NDF : 5805919.7/49

In: 1014.763+/-0.142 χ^2/NDF : 4321978.3/45

Out: 1016.919+/-0.137 χ^2/NDF : 5505952.8/51

All: 1015.878+/-0.098 χ^2/NDF : 9828051.0/97

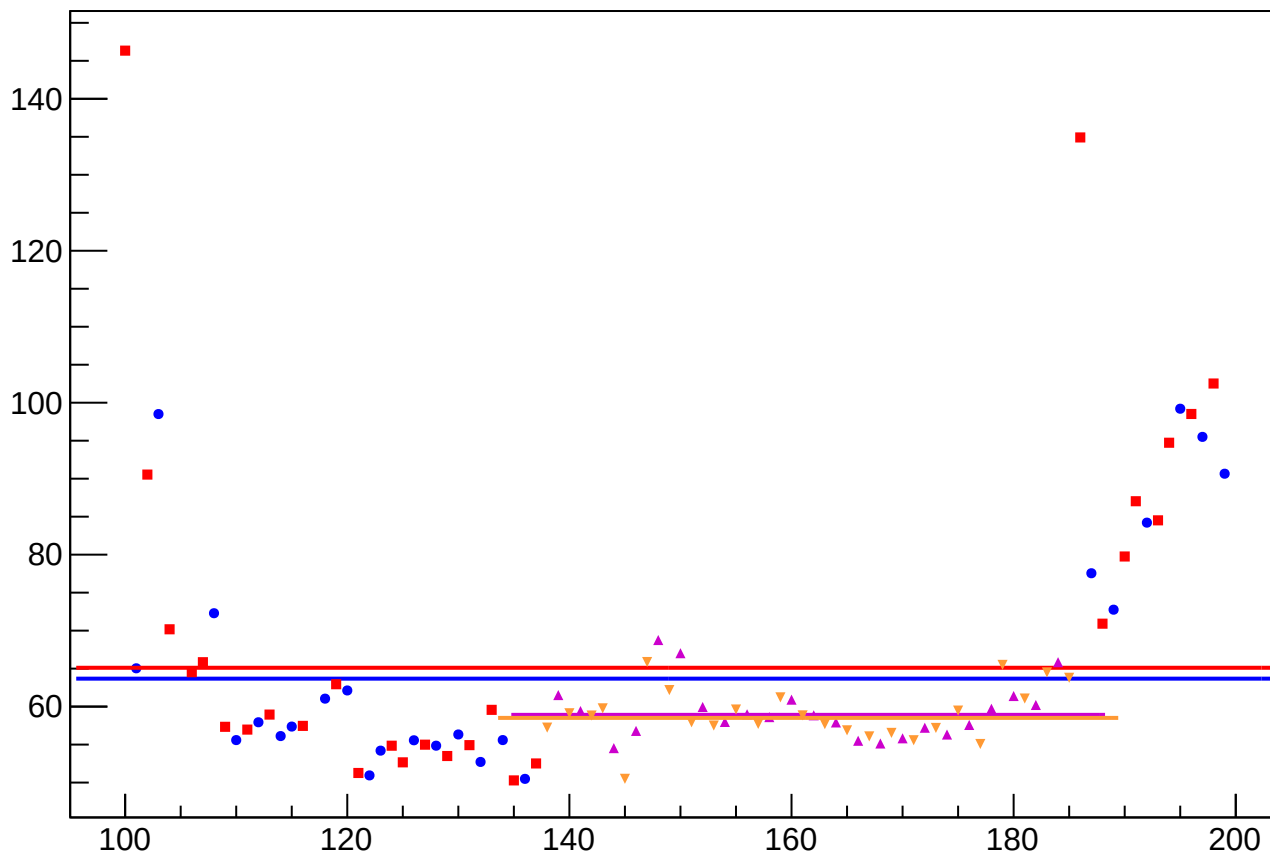
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 26.540 $\pm$ 20.168 χ^2 /NDF: 25.3/22
 Left Out: -103.899 $\pm$ 13.642 χ^2 /NDF:30.0/24
 Right Out: 4.285 $\pm$ 19.372 χ^2 /NDF: 27.0/26
 Left In: -86.542 $\pm$ 14.120 χ^2 /NDF:21.4/22

Left: -95.520 $\pm$ 9.811 χ^2 /NDF: 52.1/47
 Right: 14.964 $\pm$ 13.971 χ^2 /NDF: 52.9/49
 In: -49.346 $\pm$ 11.567 χ^2 /NDF:67.8/45
 Out: -68.033 $\pm$ 11.154 χ^2 /NDF:77.8/51
 All: -59.029 $\pm$ 8.029 χ^2 /NDF: 146.9/97

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: 65.111+/-0.014 χ^2/NDF : 1395974.7/26

Left In: 58.913+/-0.010 χ^2/NDF :109968.0/22

Left: 58.706+/-0.007 χ^2/NDF : 234021.7/47

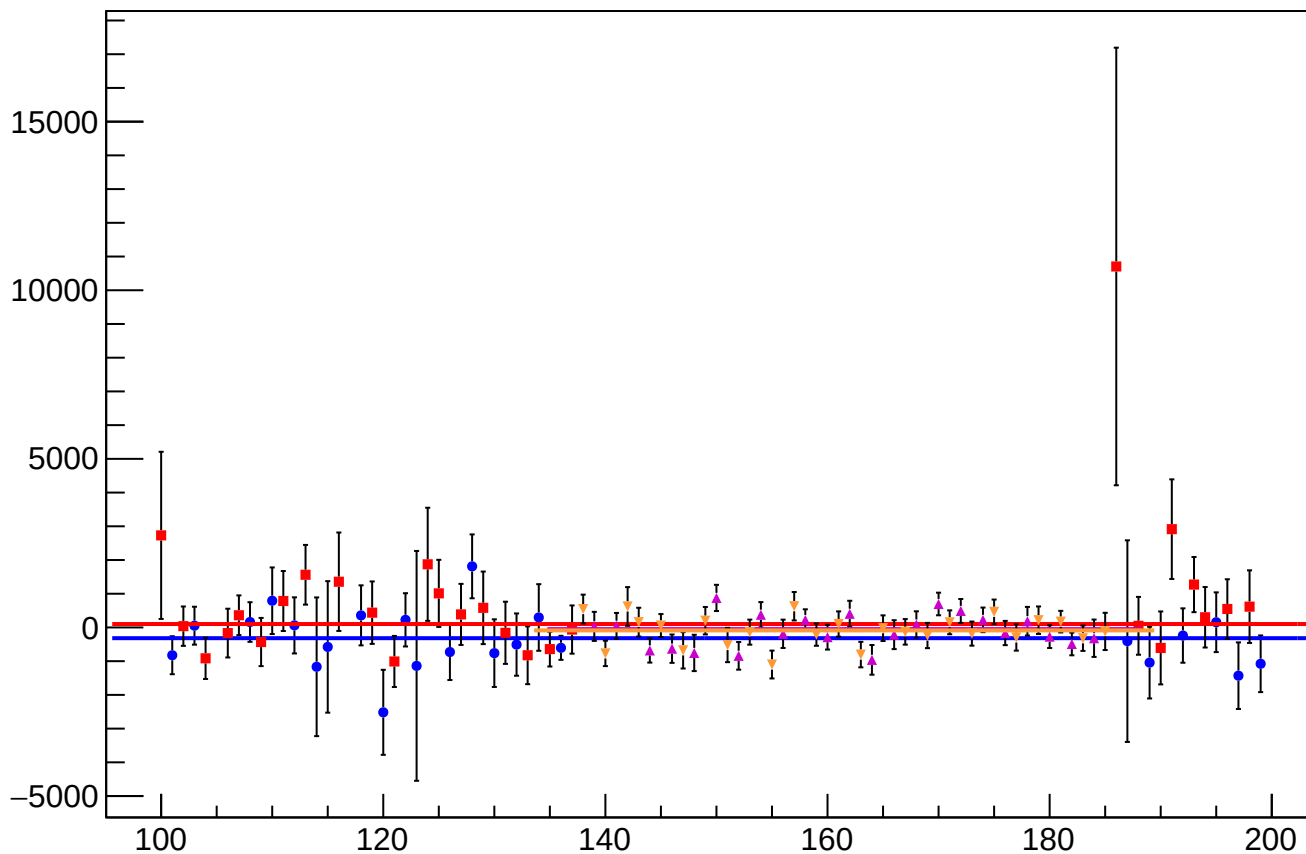
Right: 64.424+/-0.010 χ^2/NDF : 2516850.1/49

In: 60.481+/-0.008 χ^2/NDF :1300528.6/45

Out: 60.700+/-0.008 χ^2/NDF :1674308.3/51

All: 60.595+/-0.006 χ^2/NDF : 2975210.3/97

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: 101.600 ± 162.811 χ^2/NDF : 26.1/26

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

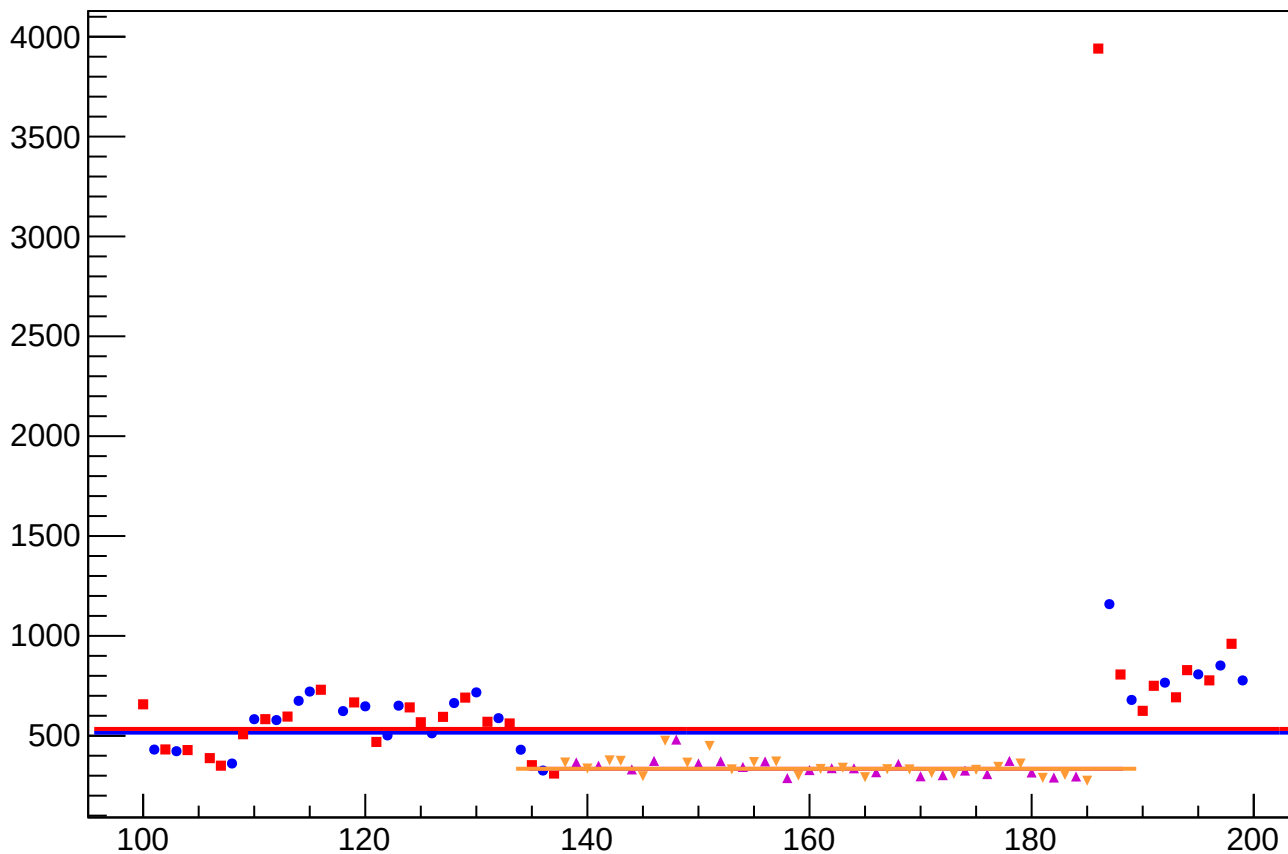
Right: -102.304 ± 116.737 χ^2/NDF : 46.4/49

In: -99.336 ± 72.588 χ^2/NDF : 54.6/45

Out: -51.756 ± 70.751 χ^2/NDF : 54.9/51

All: -74.936 ± 50.666 χ^2/NDF : 109.7/97

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 515.645 $\pm$ 0.118 χ^2 /NDF: 2047890.9/22

Left Out: 334.749 $\pm$ 0.056 χ^2 /NDF: 491370.4/24

Right Out: 534.161 $\pm$ 0.115 χ^2 /NDF: 2590295.3/26

Left In: 334.147 $\pm$ 0.057 χ^2 /NDF: 397200.6/22

Left: 334.455 $\pm$ 0.040 χ^2 /NDF: 888628.3/47

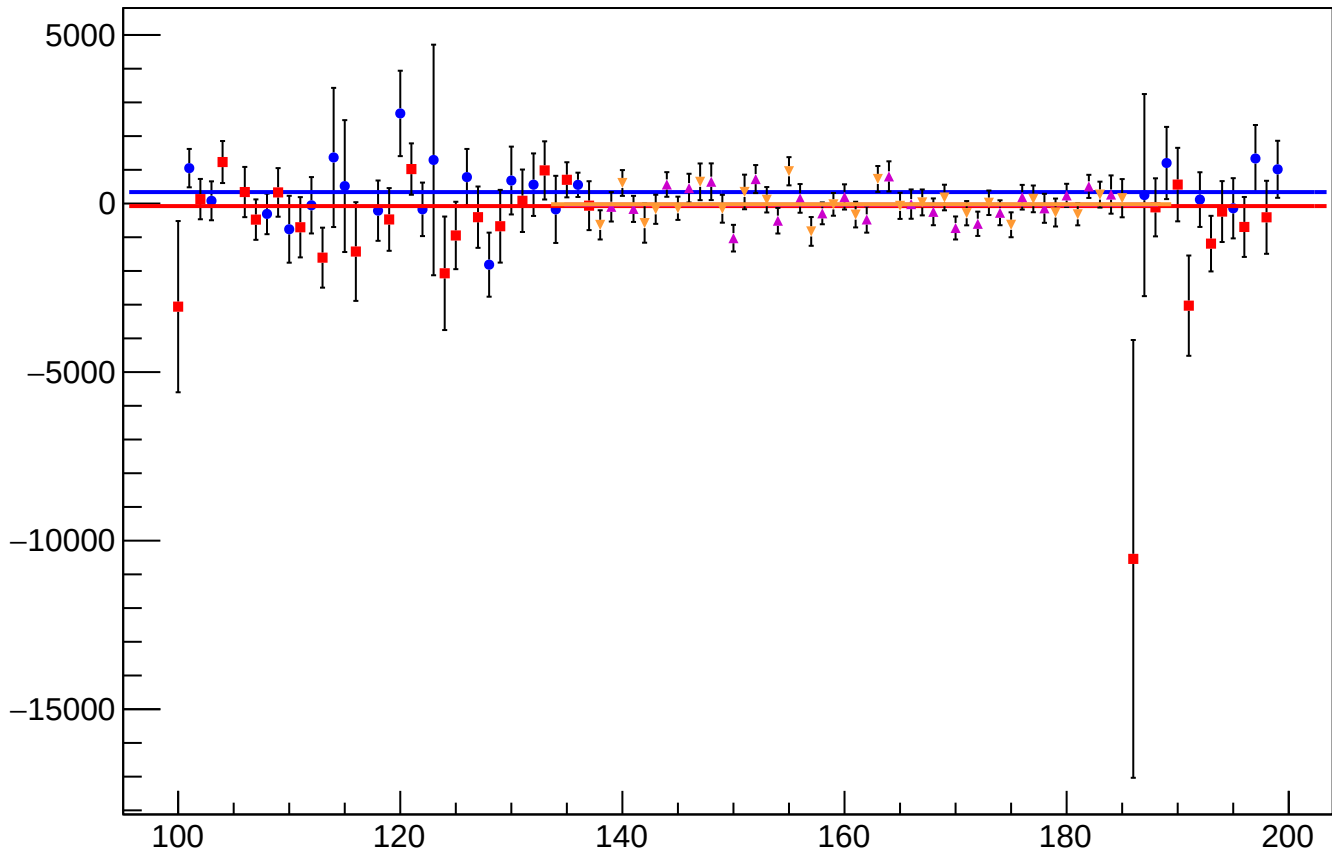
Right: 525.164 $\pm$ 0.083 χ^2 /NDF: 4650755.2/49

In: 368.245 $\pm$ 0.051 χ^2 /NDF: 4352900.7/45

Out: 372.406 $\pm$ 0.050 χ^2 /NDF: 5515380.9/51

All: 370.379 $\pm$ 0.036 χ^2 /NDF: 9871651.5/97

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: -75.730+/-164.643 χ^2/NDF : 29.2/26

Left In: -31.800+/-81.839 χ^2/NDF : 34.0/22

Left: -26.211+/-57.139 χ^2/NDF : 61.3/47

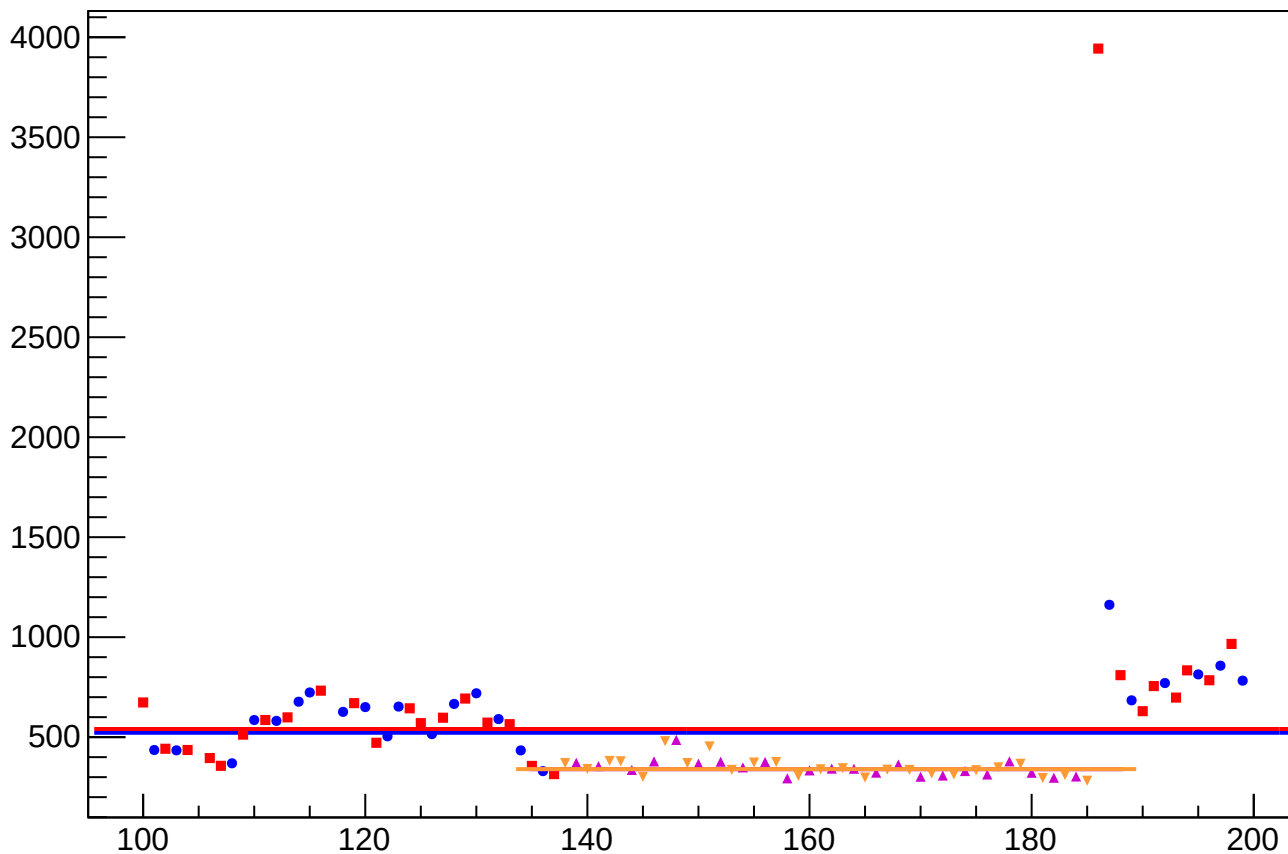
Right: 126.163+/-118.031 χ^2/NDF : 50.1/49

In: 38.556+/-73.682 χ^2/NDF : 55.7/45

Out: -31.329+/-71.818 χ^2/NDF : 56.5/51

All: 2.719+/-51.429 χ^2/NDF : 112.7/97

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: 540.770 $\pm$ 0.116 χ^2 /NDF: 2534711.4/26

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

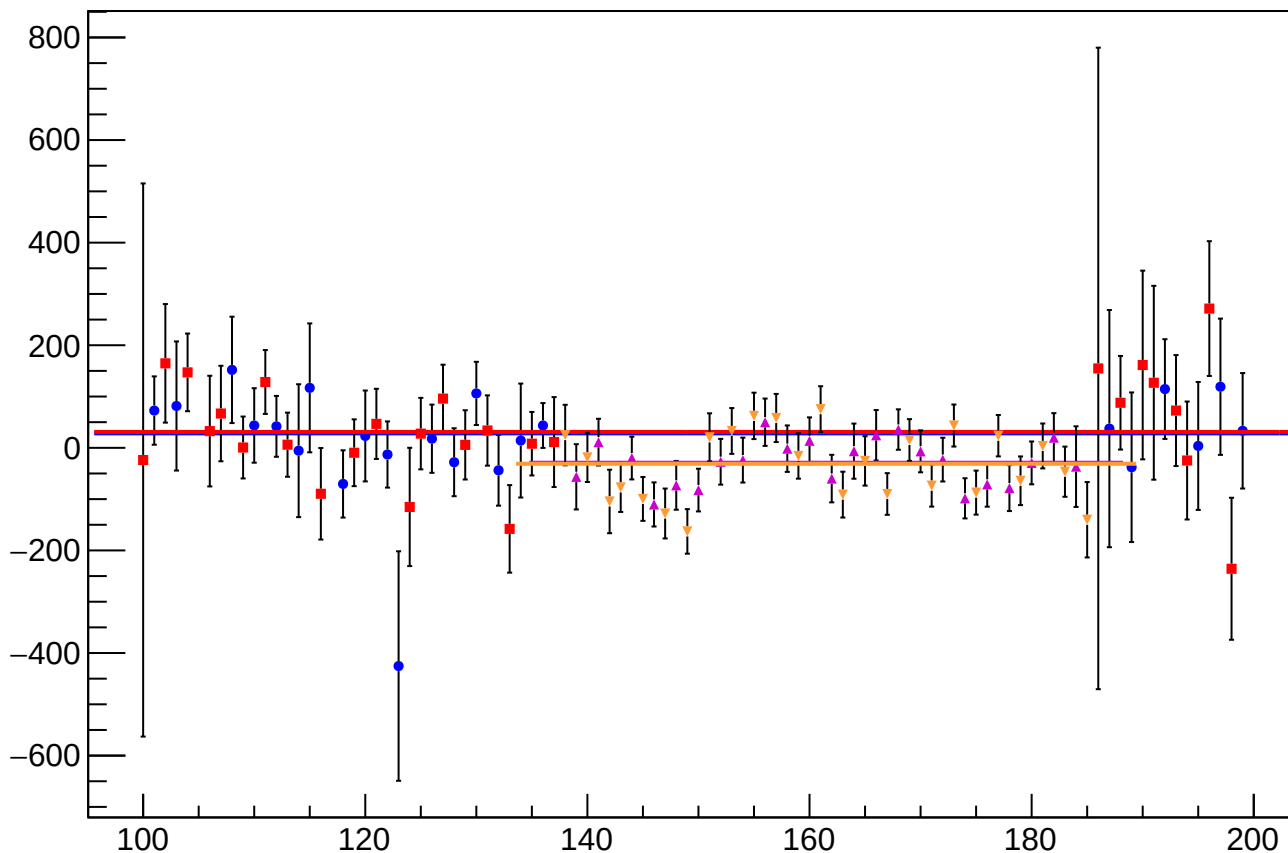
Right: 531.664 $\pm$ 0.083 χ^2 /NDF: 4542544.7/49

In: 374.174 $\pm$ 0.052 χ^2 /NDF: 4257183.8/45

Out: 378.394 $\pm$ 0.051 χ^2 /NDF: 5405993.7/51

All: 376.338 $\pm$ 0.036 χ^2 /NDF: 9666541.8/97

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: 31.053+/-16.350 χ^2/NDF : 25.4/26

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

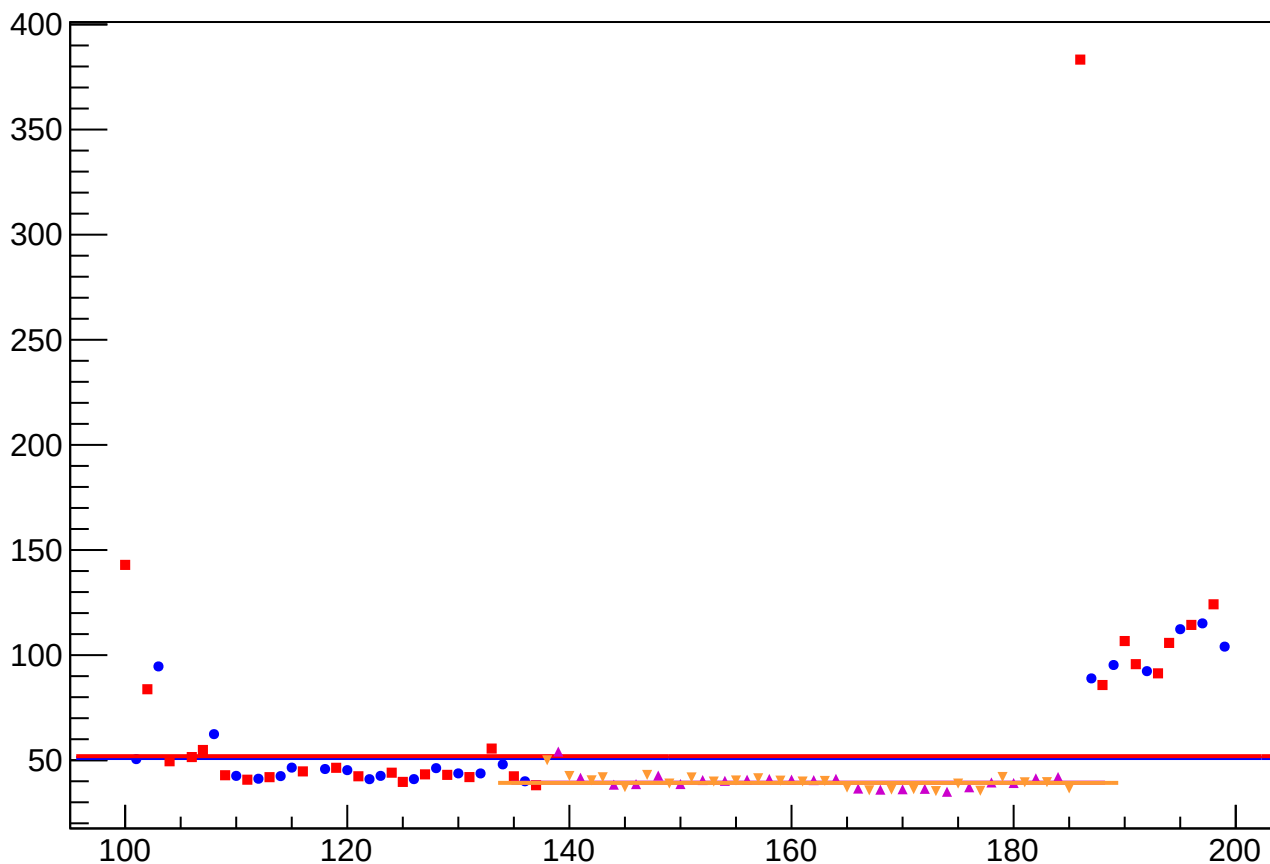
Right: 29.685+/-11.750 χ^2/NDF : 40.0/49

In: -15.409+/-8.247 χ^2/NDF : 45.8/45

Out: -16.200+/-7.998 χ^2/NDF : 89.0/51

All: -15.817+/-5.741 χ^2/NDF : 134.8/97

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: 51.937+/-0.012 χ^2/NDF : 3545966.3/26

Left In: 39.338+/-0.007 χ^2/NDF : 215671.3/22

Left: 39.285+/-0.005 χ^2/NDF : 417755.0/47

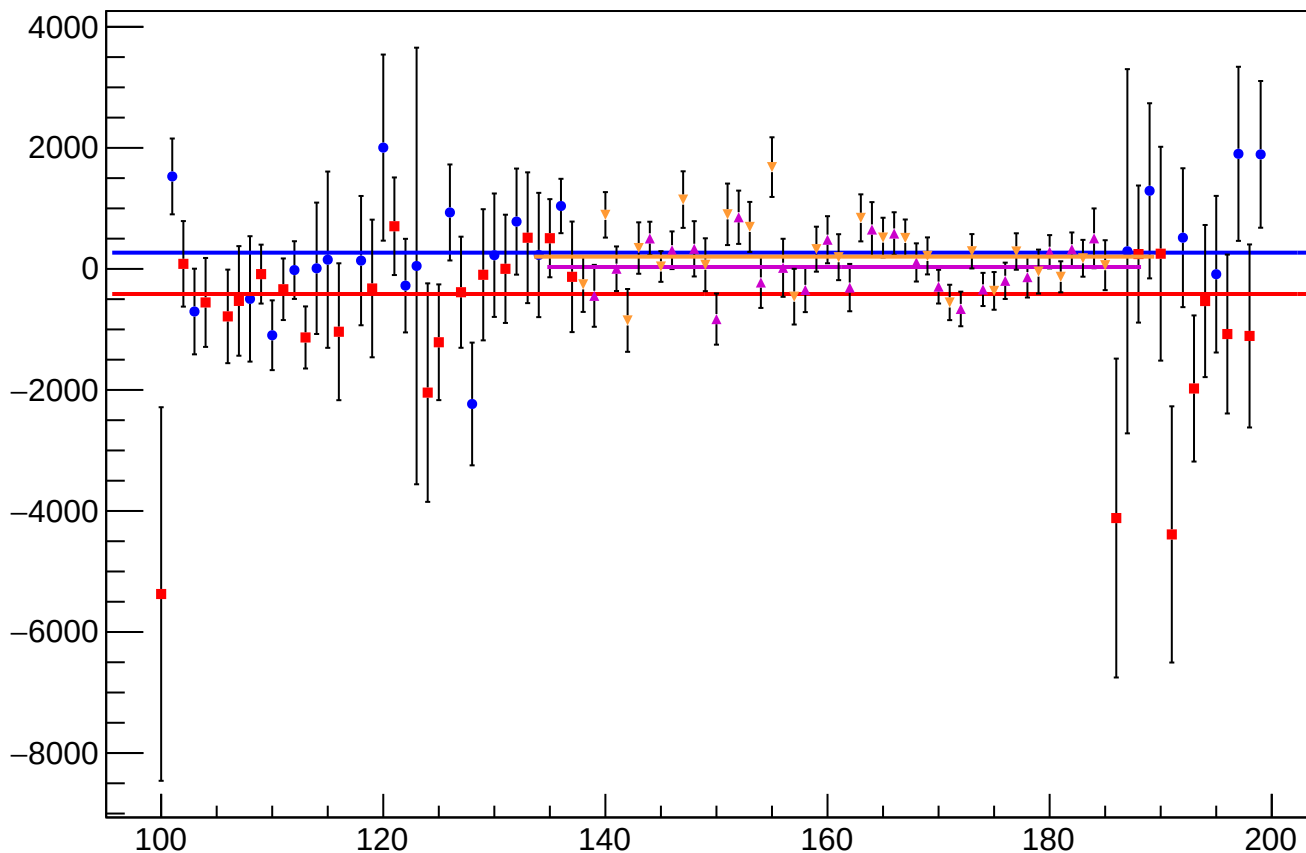
Right: 51.509+/-0.008 χ^2/NDF : 6206807.7/49

In: 42.129+/-0.006 χ^2/NDF : 3605956.4/45

Out: 42.274+/-0.006 χ^2/NDF : 4666110.5/51

All: 42.204+/-0.004 χ^2/NDF : 8272385.6/97

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: -414.544 $\pm$ 169.581 χ^2 /NDF: 20.8/26

Left In: 31.548 $\pm$ 72.100 χ^2 /NDF:33.4/22

Left: 118.965 $\pm$ 50.380 χ^2 /NDF: 81.1/47

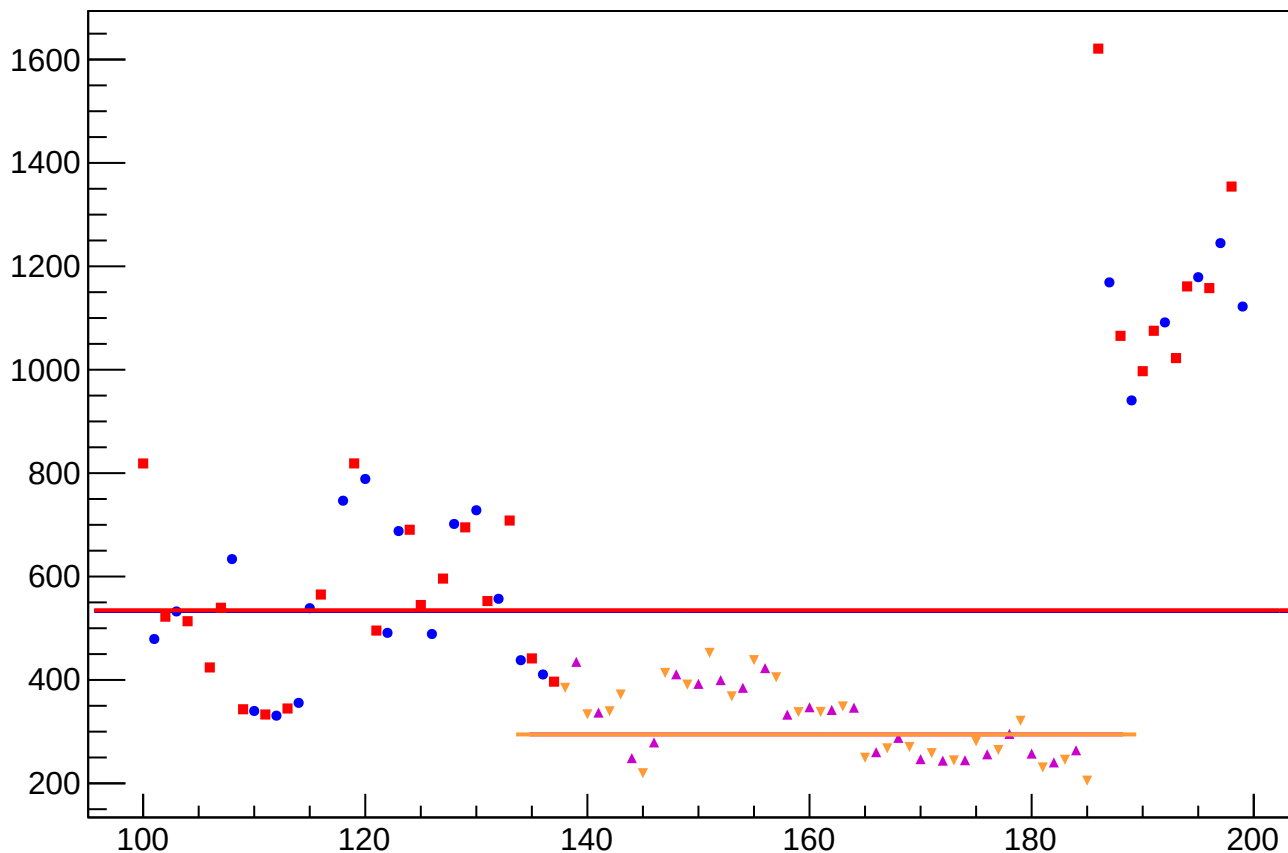
Right: -92.146 $\pm$ 123.219 χ^2 /NDF: 56.6/49

In: 64.509 $\pm$ 66.896 χ^2 /NDF:62.9/45

Out: 111.622 $\pm$ 65.040 χ^2 /NDF:77.0/51

All: 88.728 $\pm$ 46.633 χ^2 /NDF: 140.2/97

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 533.367+/-0.127 χ^2/NDF : 3300151.1/22

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 534.783+/-0.120 χ^2/NDF : 4204009.2/26

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

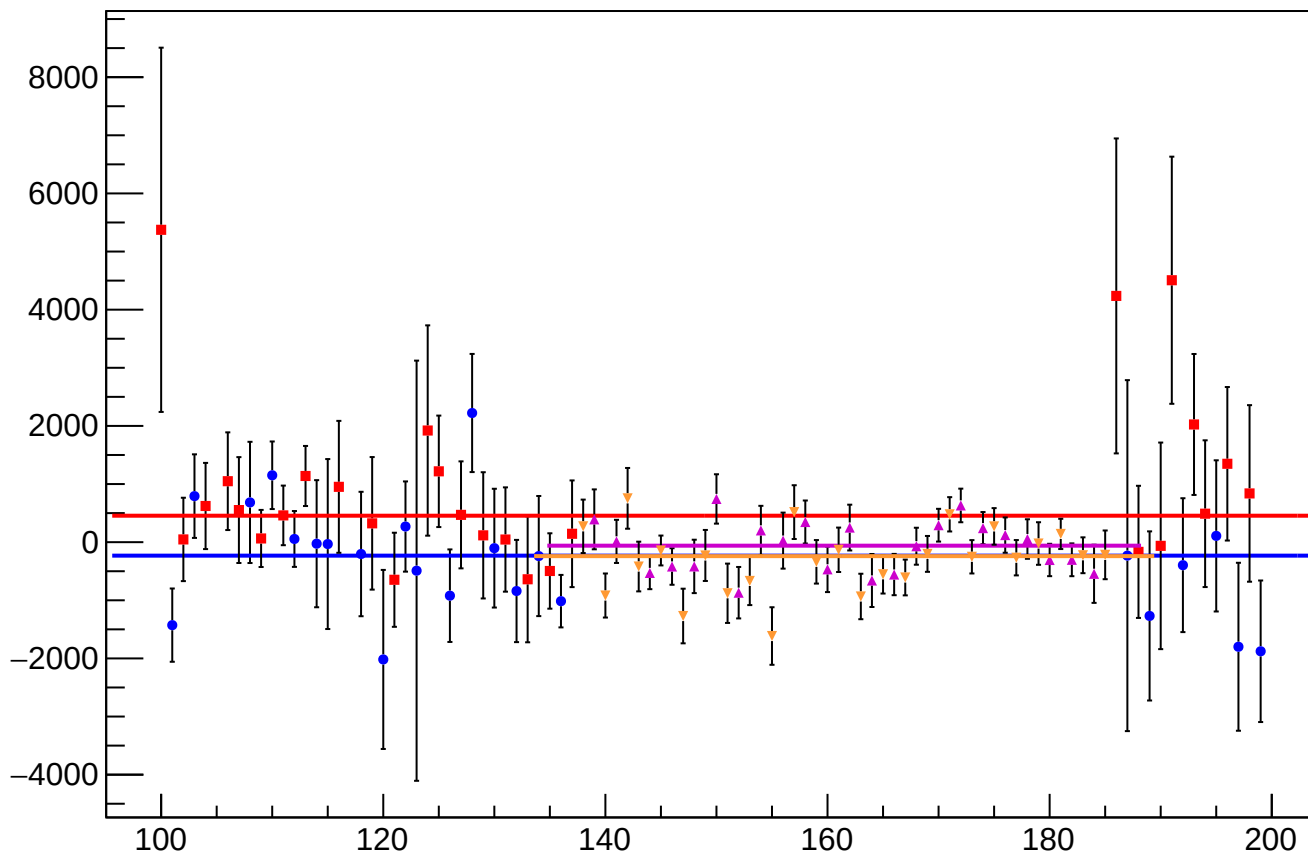
Right: 534.114+/-0.087 χ^2/NDF : 7504226.1/49

In: 327.925+/-0.047 χ^2/NDF : 7646031.9/45

Out: 329.923+/-0.046 χ^2/NDF : 9306562.3/51

All: 328.953+/-0.033 χ^2/NDF : 16953511.3/97

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: 455.274 ± 171.263 $\chi^2/\text{NDF}: 20.8/26$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

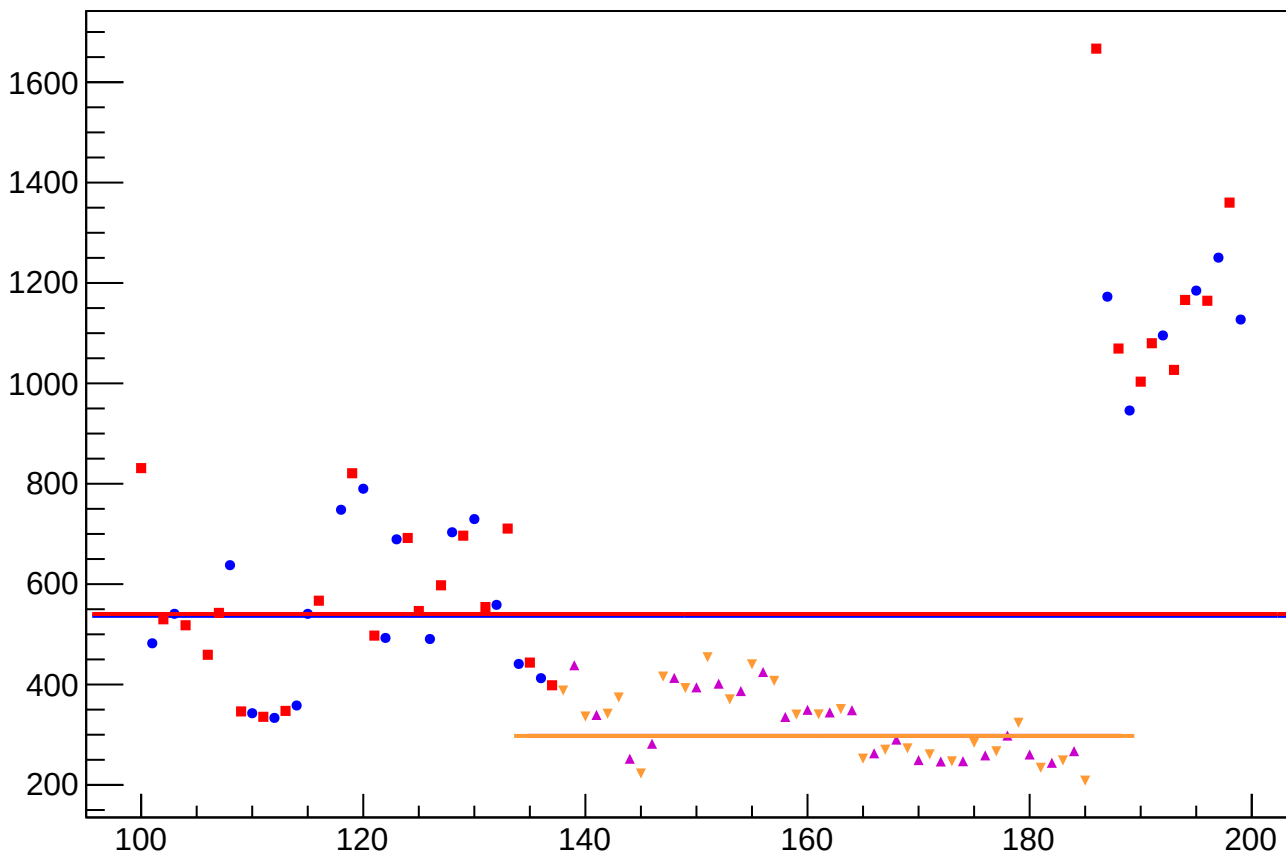
Right: 129.640 ± 124.214 $\chi^2/\text{NDF}: 56.4/49$

In: -84.326 ± 67.502 $\chi^2/\text{NDF}: 59.6/45$

Out: -138.089 ± 65.666 $\chi^2/\text{NDF}: 77.8/51$

All: -111.949 ± 47.069 $\chi^2/\text{NDF}: 137.7/97$

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: 540.539 $\pm$ 0.121 χ^2 /NDF: 4167018.3/26

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

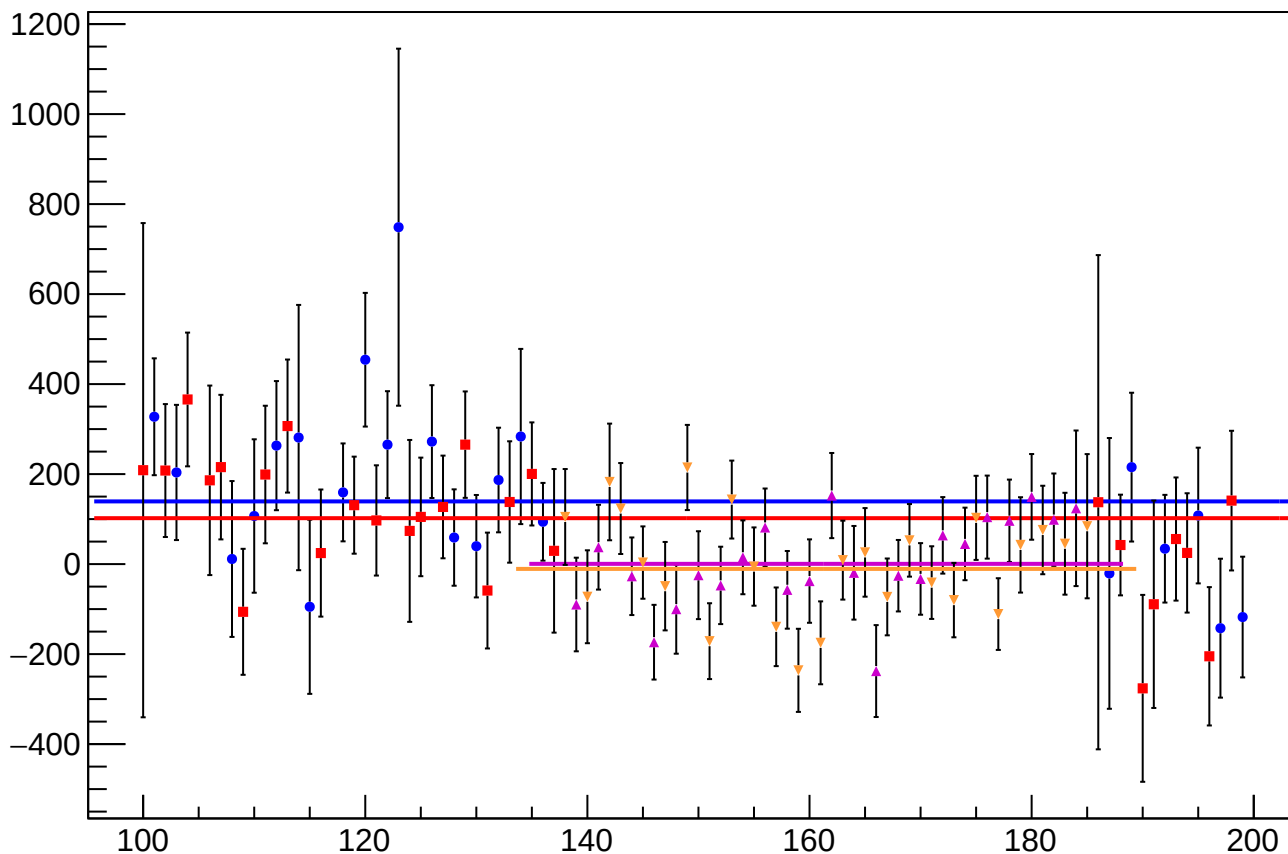
Right: 538.790 $\pm$ 0.088 χ^2 /NDF: 7450904.3/49

In: 331.173 $\pm$ 0.048 χ^2 /NDF: 7571702.0/45

Out: 333.326 $\pm$ 0.046 χ^2 /NDF: 9237152.1/51

All: 332.279 $\pm$ 0.033 χ^2 /NDF: 16809899.6/97

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 139.316 $\pm$ 29.029 χ^2 /NDF: 25.1/22

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 102.049 $\pm$ 28.063 χ^2 /NDF: 22.6/26

Left In: 0.575 $\pm$ 19.091 χ^2 /NDF:23.8/22

Left: -5.190 $\pm$ 13.326 χ^2 /NDF: 60.3/47

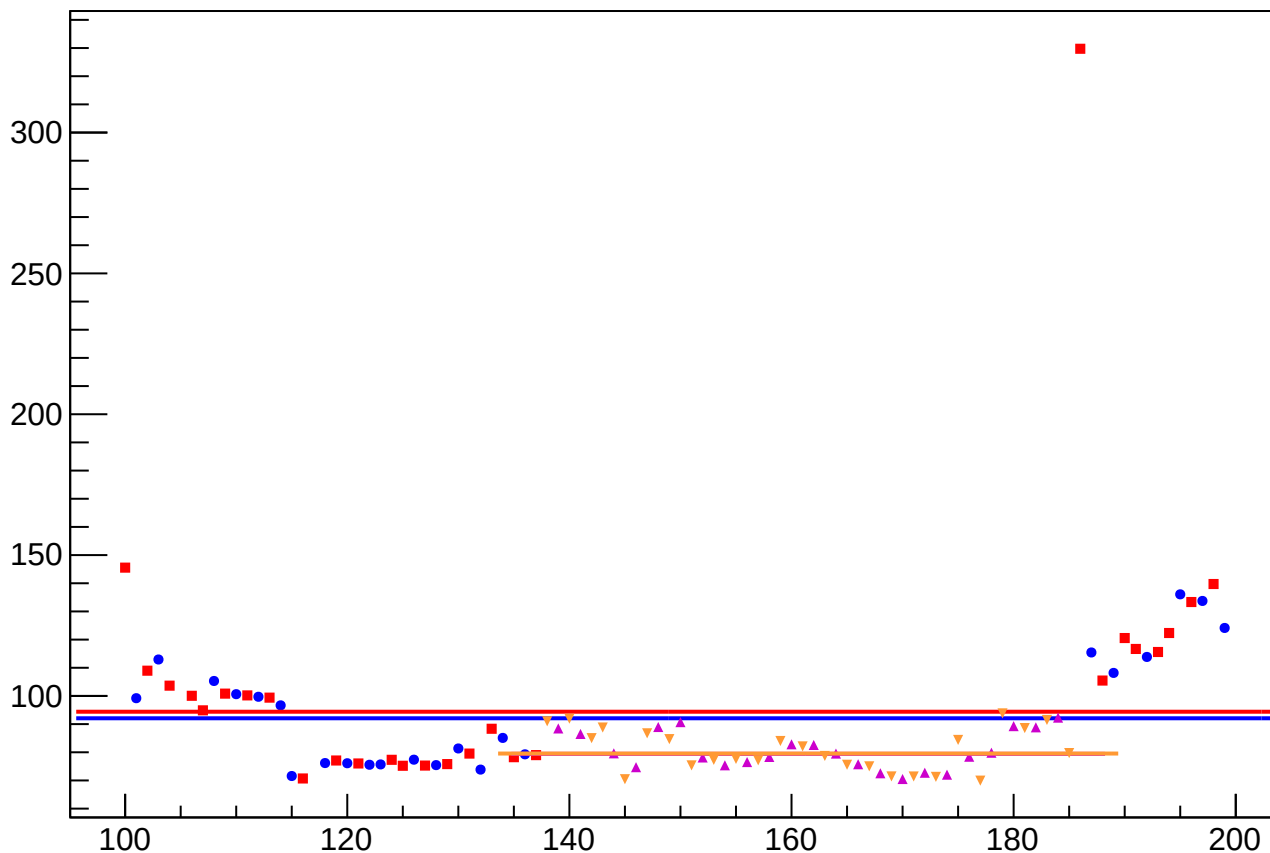
Right: 120.052 $\pm$ 20.177 χ^2 /NDF: 48.5/49

In: 42.465 $\pm$ 15.951 χ^2 /NDF:64.8/45

Out: 23.760 $\pm$ 15.509 χ^2 /NDF:70.1/51

All: 32.850 $\pm$ 11.120 χ^2 /NDF: 135.6/97

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: 94.399 $\pm$ 0.020 χ^2 /NDF: 1328522.4/26

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

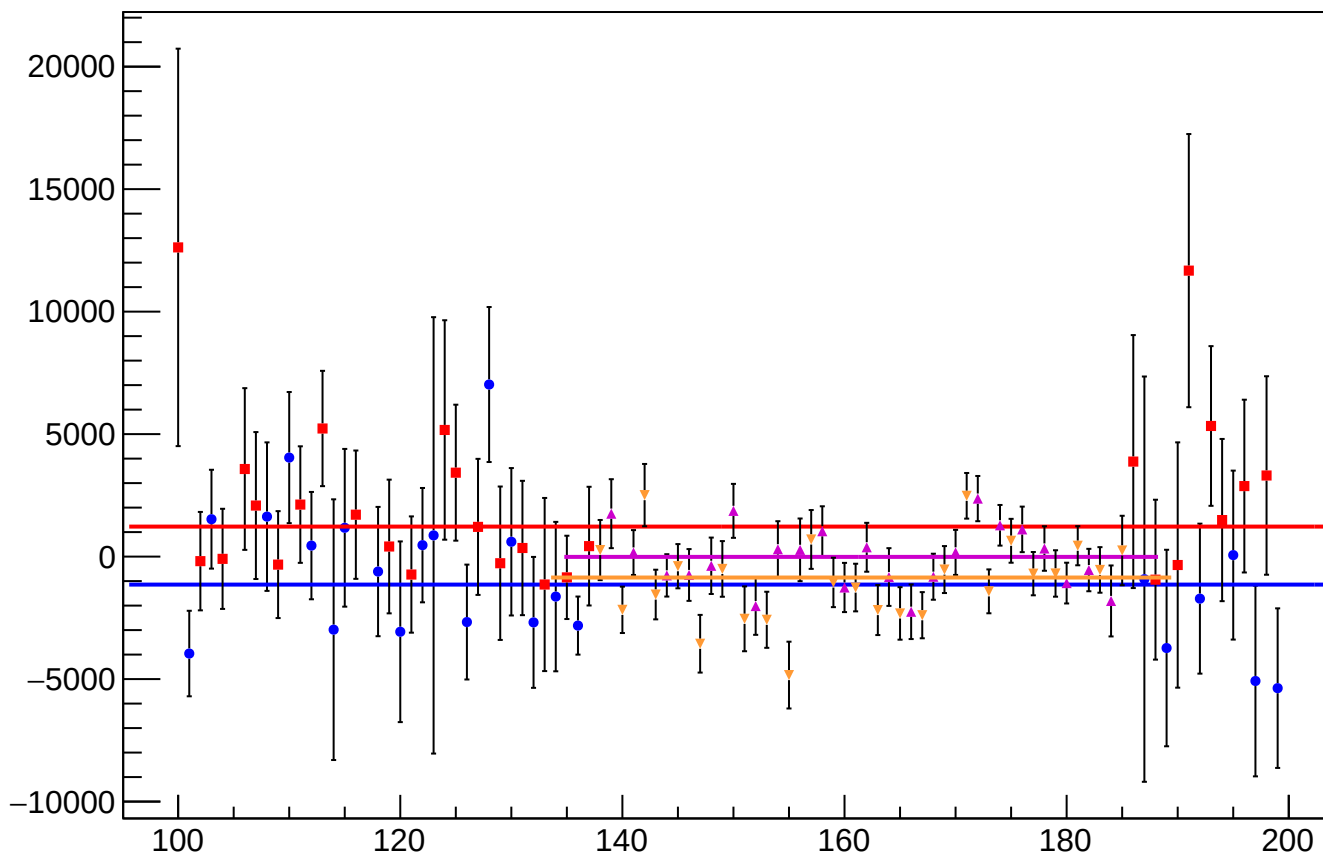
Right: 93.273 $\pm$ 0.014 χ^2 /NDF: 2249441.4/49

In: 83.250 $\pm$ 0.011 χ^2 /NDF:1391043.5/45

Out: 84.086 $\pm$ 0.011 χ^2 /NDF:2026469.3/51

All: 83.680 $\pm$ 0.008 χ^2 /NDF: 3420335.5/97

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: 1225.037 $\pm$ 542.237 χ^2 /NDF: 18.0/26

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

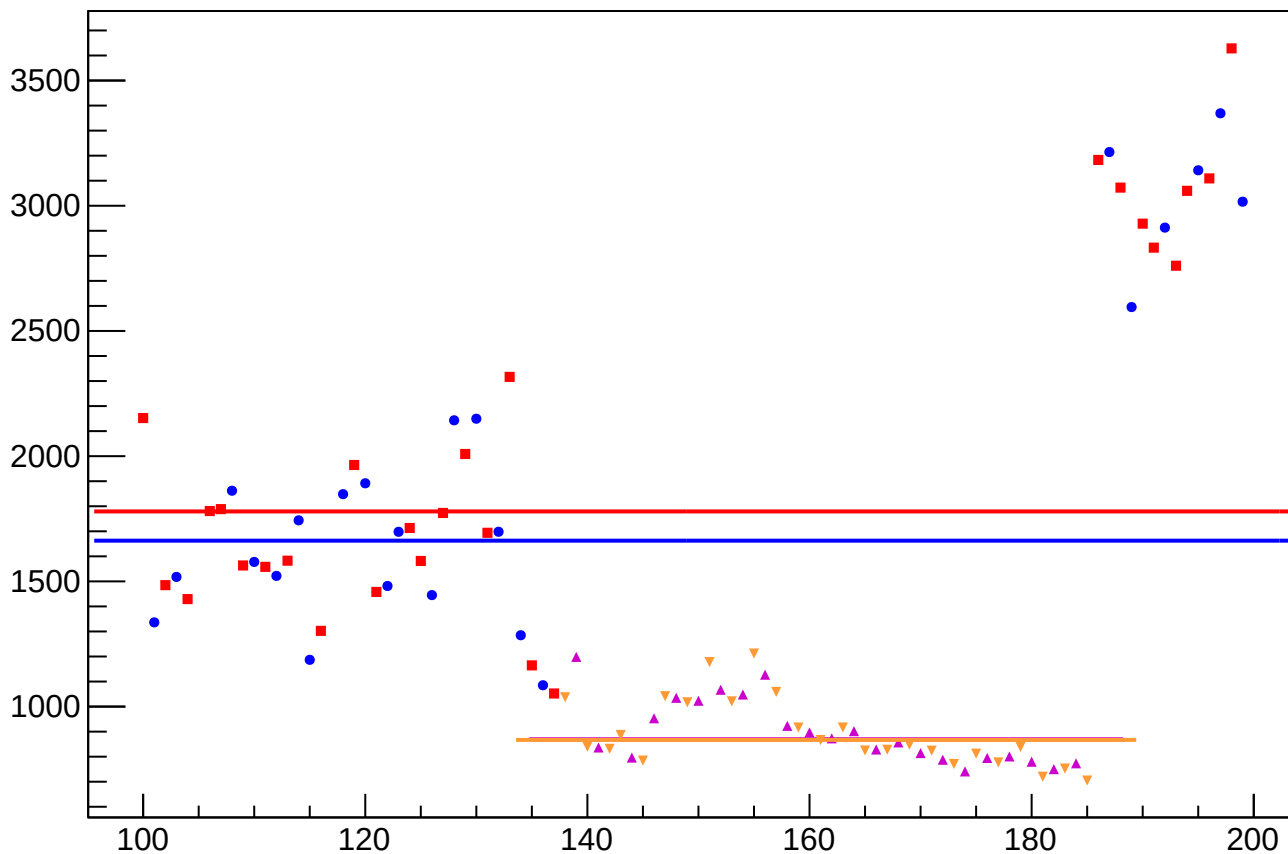
Right: 49.267 $\pm$ 384.731 χ^2 /NDF: 51.5/49

In: -157.545 $\pm$ 196.060 χ^2 /NDF:59.0/45

Out: -596.132 $\pm$ 191.008 χ^2 /NDF:86.8/51

All: -382.561 $\pm$ 136.814 χ^2 /NDF: 148.4/97

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: 1779.273 $\pm$ 0.383 χ^2 /NDF: 2599896.9/26

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

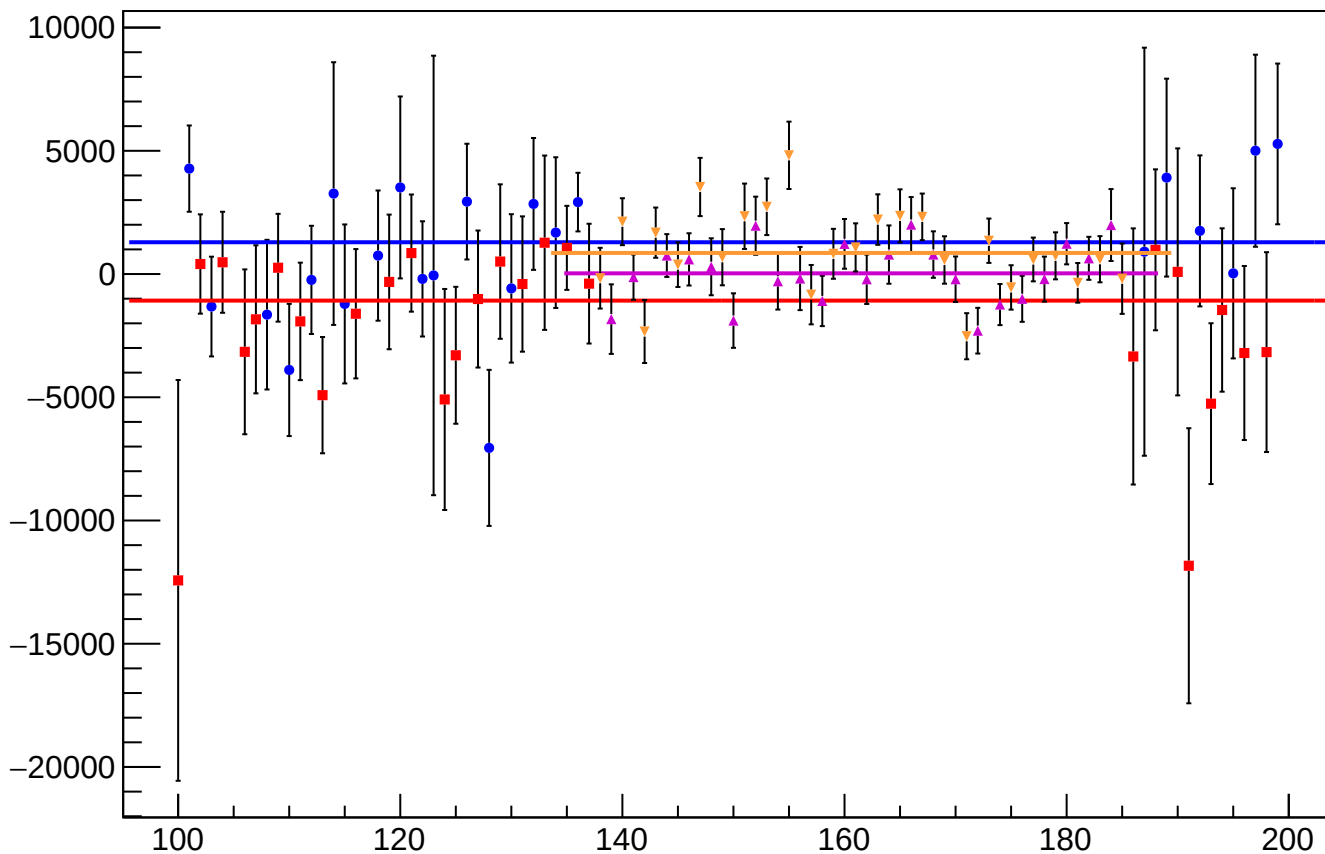
Right: 1721.337 $\pm$ 0.272 χ^2 /NDF: 5049638.1/49

In: 971.837 $\pm$ 0.139 χ^2 /NDF: 6661607.1/45

Out: 980.108 $\pm$ 0.135 χ^2 /NDF: 8221409.6/51

All: 976.080 $\pm$ 0.097 χ^2 /NDF: 14884842.7/97

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: -1078.145 $\pm$ 543.369 χ^2/NDF : 17.9/26

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

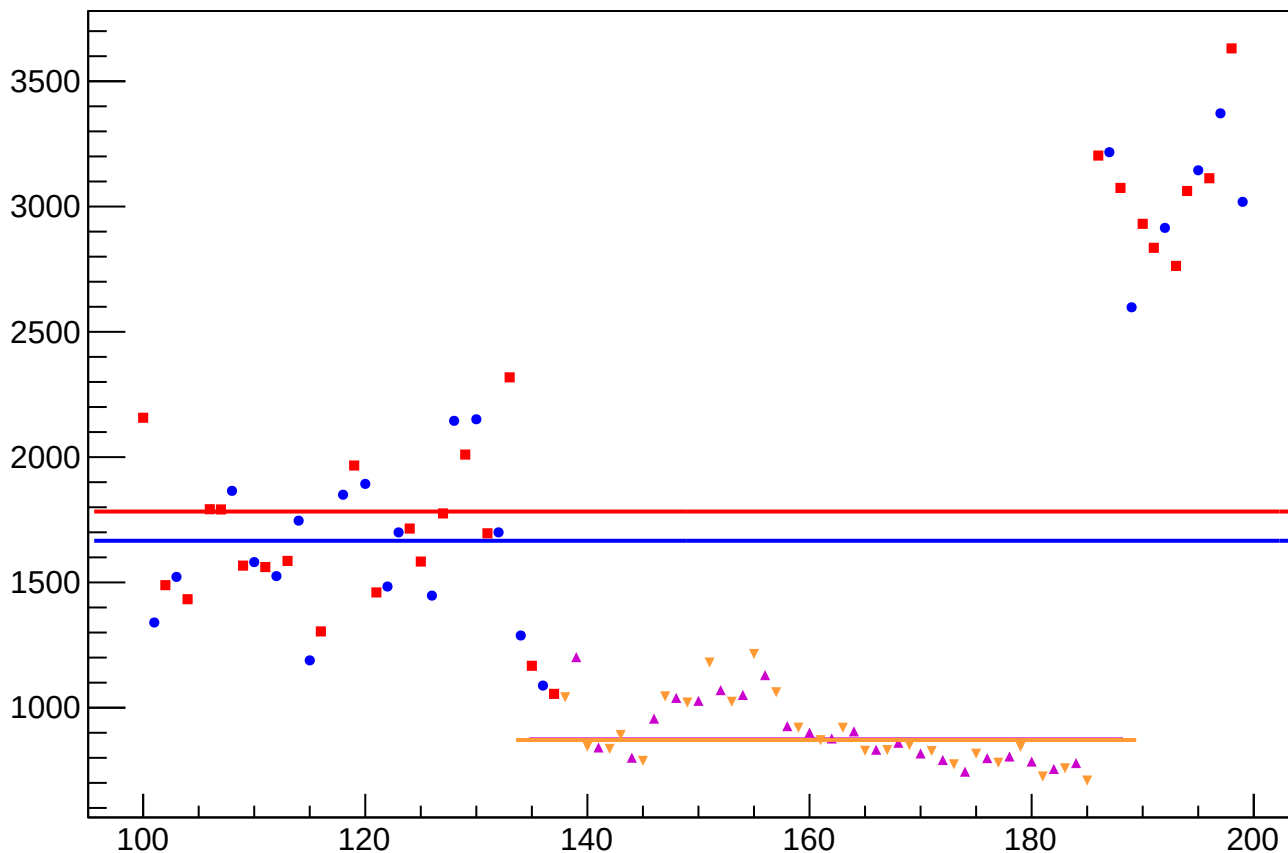
Right: 97.825 $\pm$ 385.502 χ^2/NDF : 51.7/49

In: 191.929 $\pm$ 196.890 χ^2/NDF : 58.7/45

Out: 614.612 $\pm$ 191.842 χ^2/NDF : 83.1/51

All: 408.758 $\pm$ 137.403 χ^2/NDF : 144.2/97

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: 1782.905 $\pm$ 0.384 χ^2 /NDF: 2594272.9/26

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

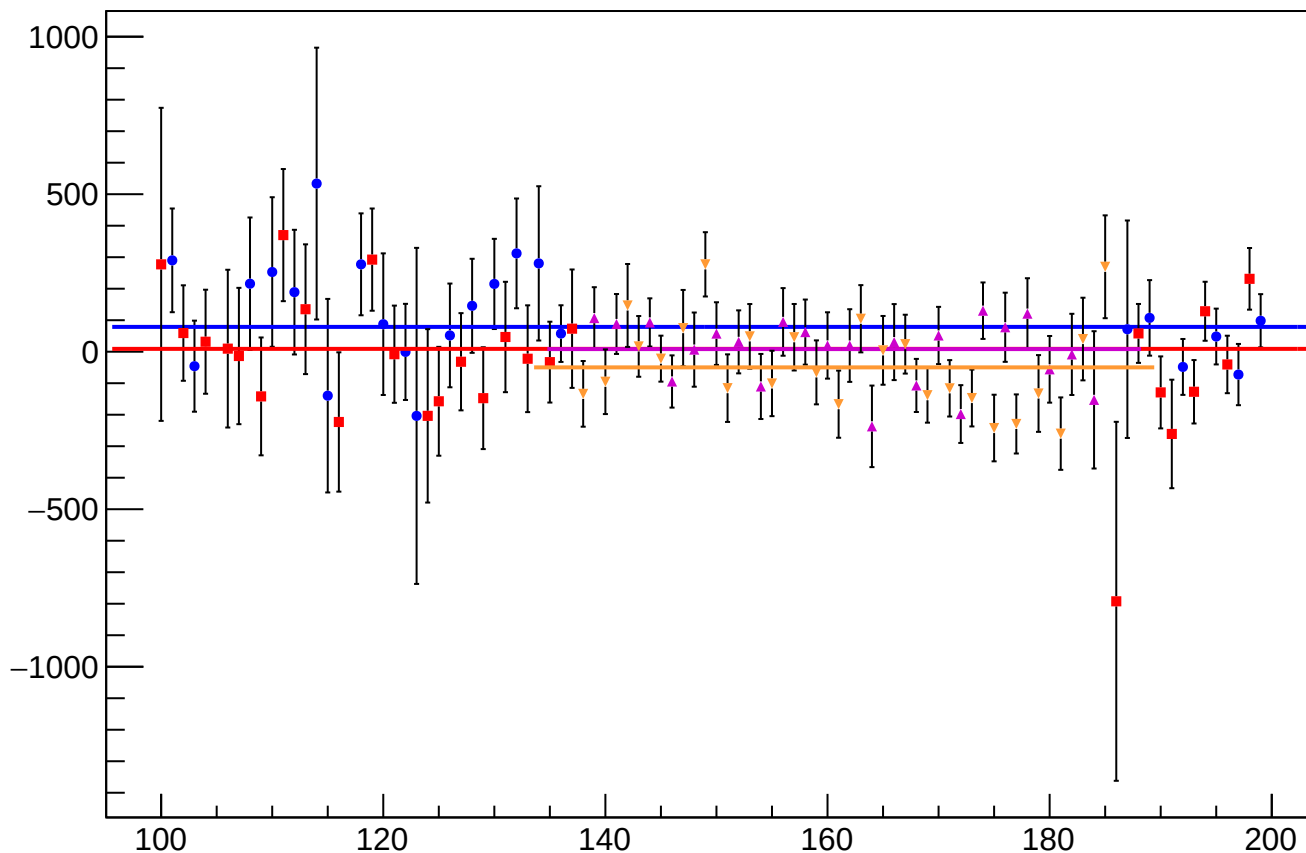
Right: 1724.947 $\pm$ 0.273 χ^2 /NDF: 5035279.6/49

In: 976.351 $\pm$ 0.139 χ^2 /NDF: 6623375.4/45

Out: 984.766 $\pm$ 0.136 χ^2 /NDF: 8175686.6/51

All: 980.668 $\pm$ 0.097 χ^2 /NDF: 14800936.2/97

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 78.790 ± 29.445 $\chi^2/\text{NDF}: 15.7/22$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: 9.035 ± 28.337 $\chi^2/\text{NDF}: 26.5/26$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

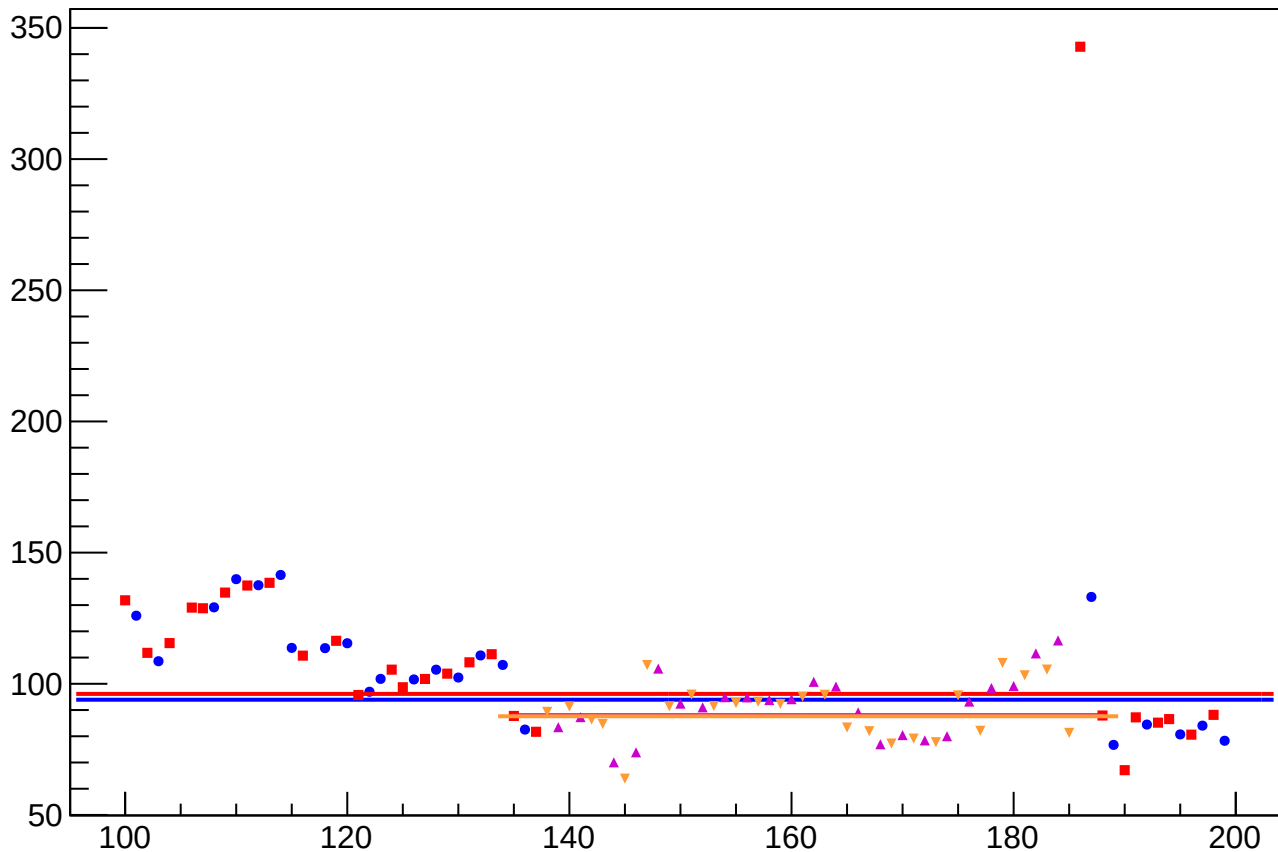
Right: 42.575 ± 20.418 $\chi^2/\text{NDF}: 45.1/49$

In: 32.500 ± 17.243 $\chi^2/\text{NDF}: 41.5/45$

Out: -29.429 ± 16.652 $\chi^2/\text{NDF}: 68.7/51$

All: 0.456 ± 11.978 $\chi^2/\text{NDF}: 116.9/97$

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: 96.150 $\pm$ 0.020 χ^2 /NDF: 1123433.8/26

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

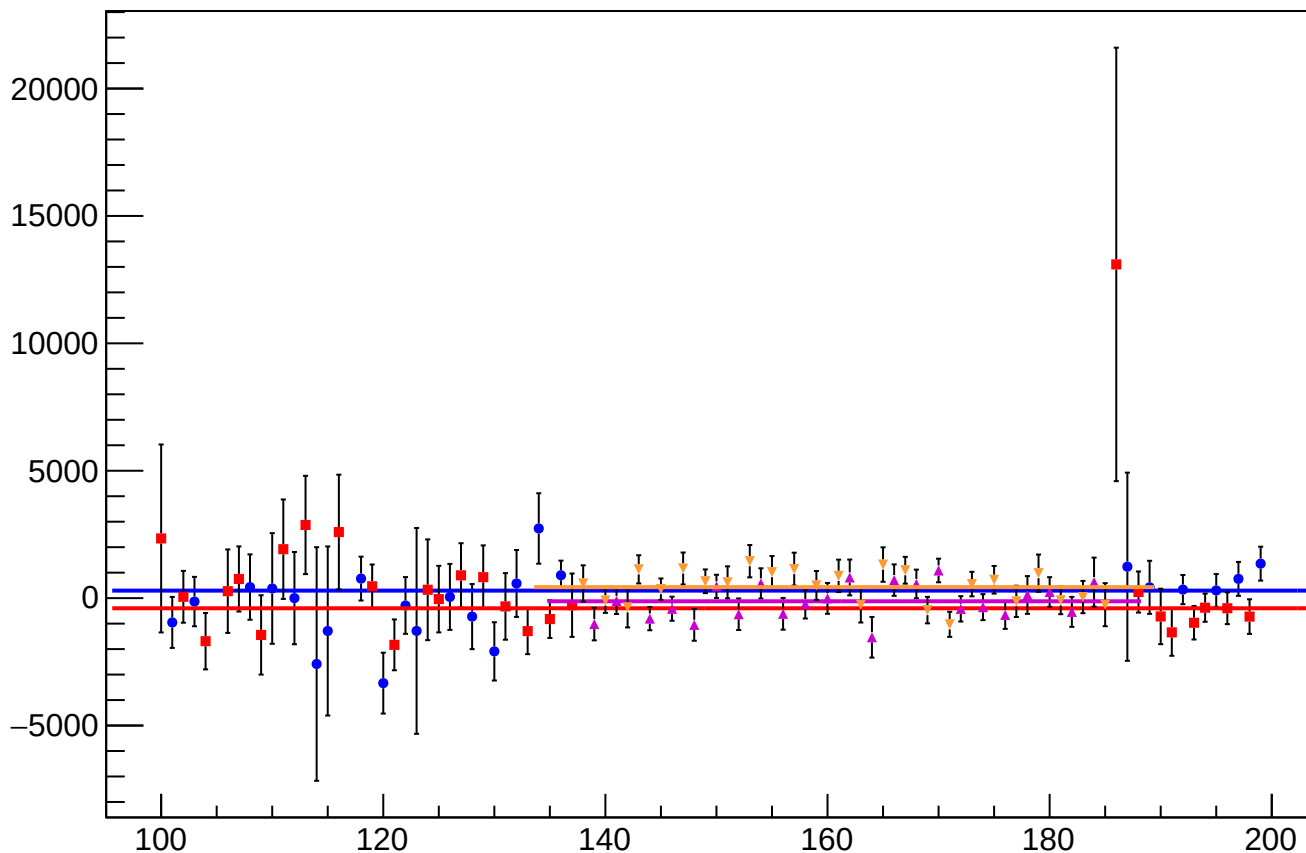
Right: 95.082 $\pm$ 0.014 χ^2 /NDF: 1839095.6/49

In: 90.055 $\pm$ 0.012 χ^2 /NDF: 1286195.8/45

Out: 90.569 $\pm$ 0.012 χ^2 /NDF: 1796612.9/51

All: 90.321 $\pm$ 0.008 χ^2 /NDF: 3083730.1/97

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: -398.257 $\pm$ 193.686 χ^2 /NDF: 21.5/26

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

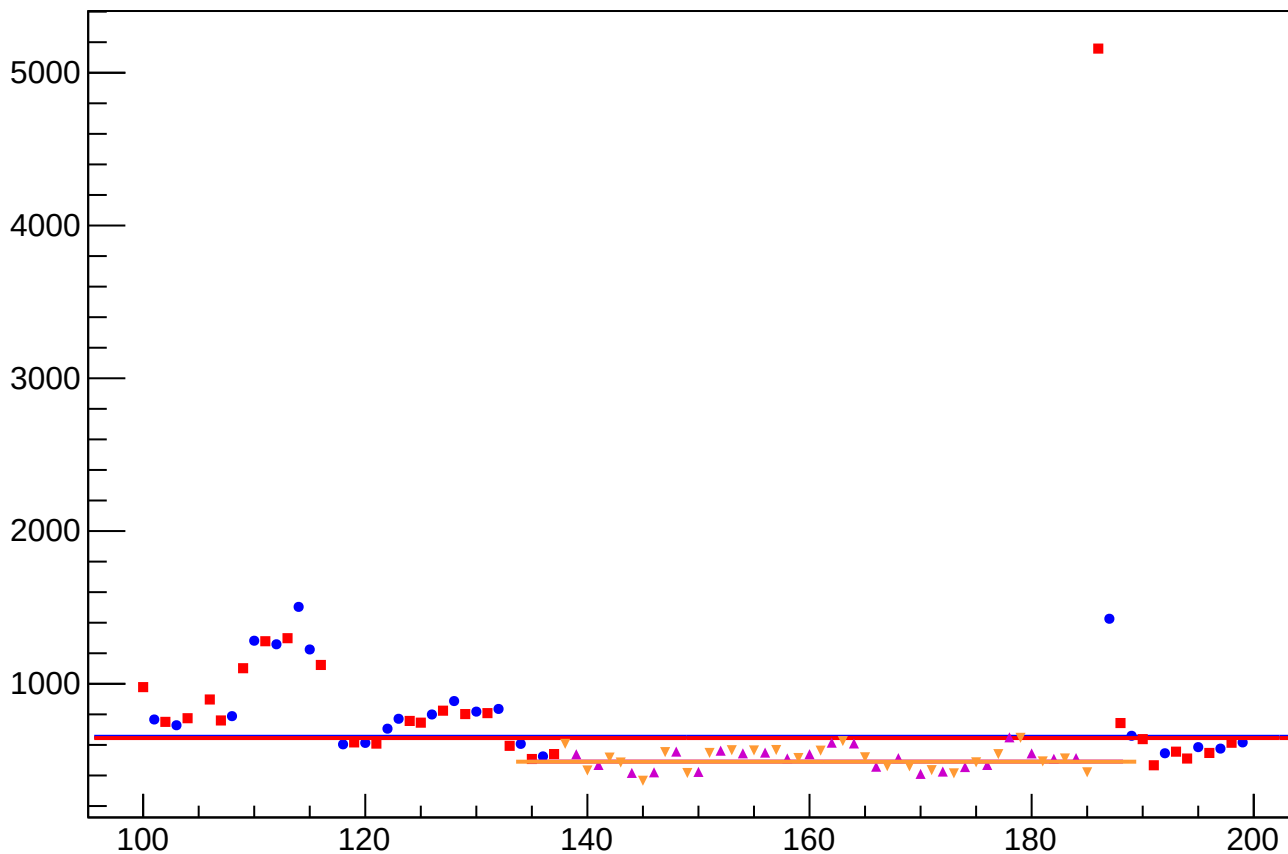
Right: -74.471 $\pm$ 141.427 χ^2 /NDF: 52.2/49

In: -19.293 $\pm$ 103.068 χ^2 /NDF:57.1/45

Out: 213.382 $\pm$ 99.331 χ^2 /NDF:65.5/51

All: 101.338 $\pm$ 71.522 χ^2 /NDF: 125.2/97

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 653.325 $\pm$ 0.146 χ^2 /NDF: 1083415.7/22

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 644.873 $\pm$ 0.137 χ^2 /NDF: 1923480.0/26

Left In: 490.910 $\pm$ 0.084 χ^2 /NDF: 589235.5/22

Left: 490.580 $\pm$ 0.059 χ^2 /NDF: 1339542.5/47

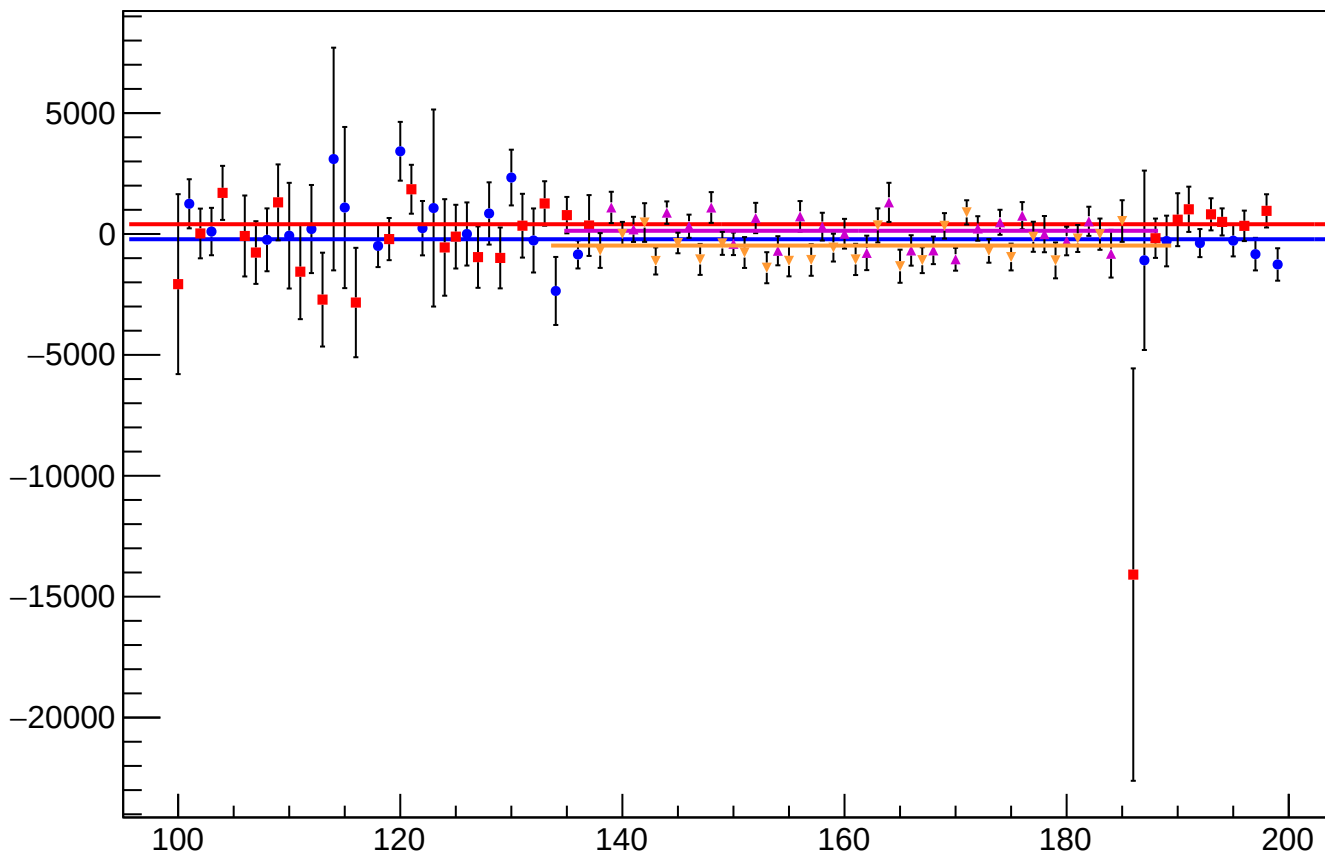
Right: 648.818 $\pm$ 0.100 χ^2 /NDF: 3008673.6/49

In: 531.178 $\pm$ 0.073 χ^2 /NDF: 2598693.2/45

Out: 530.930 $\pm$ 0.070 χ^2 /NDF: 3612929.2/51

All: 531.049 $\pm$ 0.051 χ^2 /NDF: 6211628.4/97

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: 403.877+/-196.092 χ^2/NDF : 20.1/26

Left In: 132.543+/-120.866 χ^2/NDF : 29.5/22

Left: -181.037+/-84.308 χ^2/NDF : 70.5/47

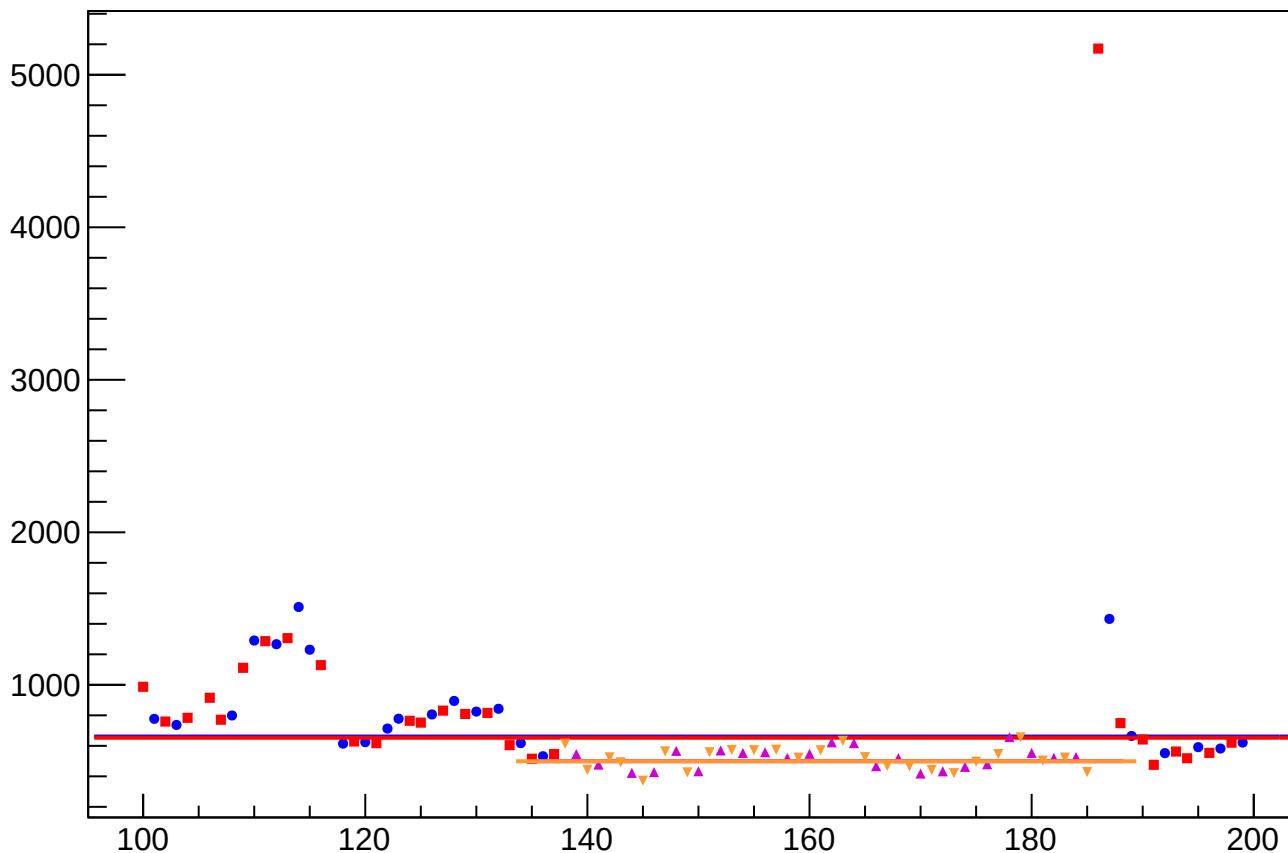
Right: 113.646+/-143.107 χ^2/NDF : 49.6/49

In: 45.125+/-104.670 χ^2/NDF : 56.4/45

Out: -244.696+/-100.891 χ^2/NDF : 62.8/51

All: -105.112+/-72.640 χ^2/NDF : 123.2/97

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: 653.259 $\pm$ 0.139 χ^2 /NDF: 1900712.7/26

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

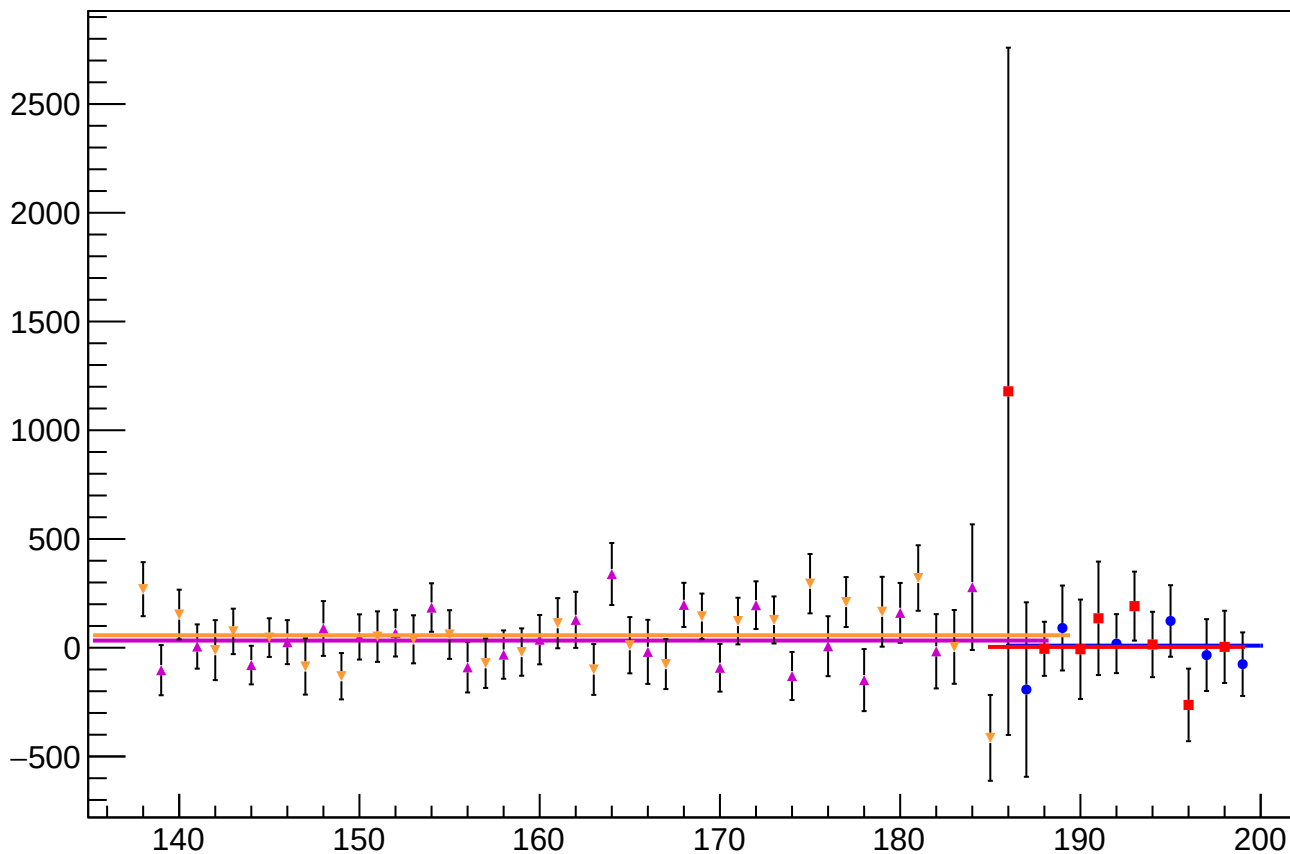
Right: 656.849 $\pm$ 0.101 χ^2 /NDF: 2973190.8/49

In: 539.787 $\pm$ 0.074 χ^2 /NDF: 2540962.5/45

Out: 539.654 $\pm$ 0.071 χ^2 /NDF: 3547962.7/51

All: 539.718 $\pm$ 0.051 χ^2 /NDF: 6088926.9/97

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: 3.757 ± 62.618 χ^2/NDF : 4.8/7

Left In: 32.948 ± 24.587 χ^2/NDF : 23.6/22

Left: 45.518 ± 17.069 χ^2/NDF : 53.3/47

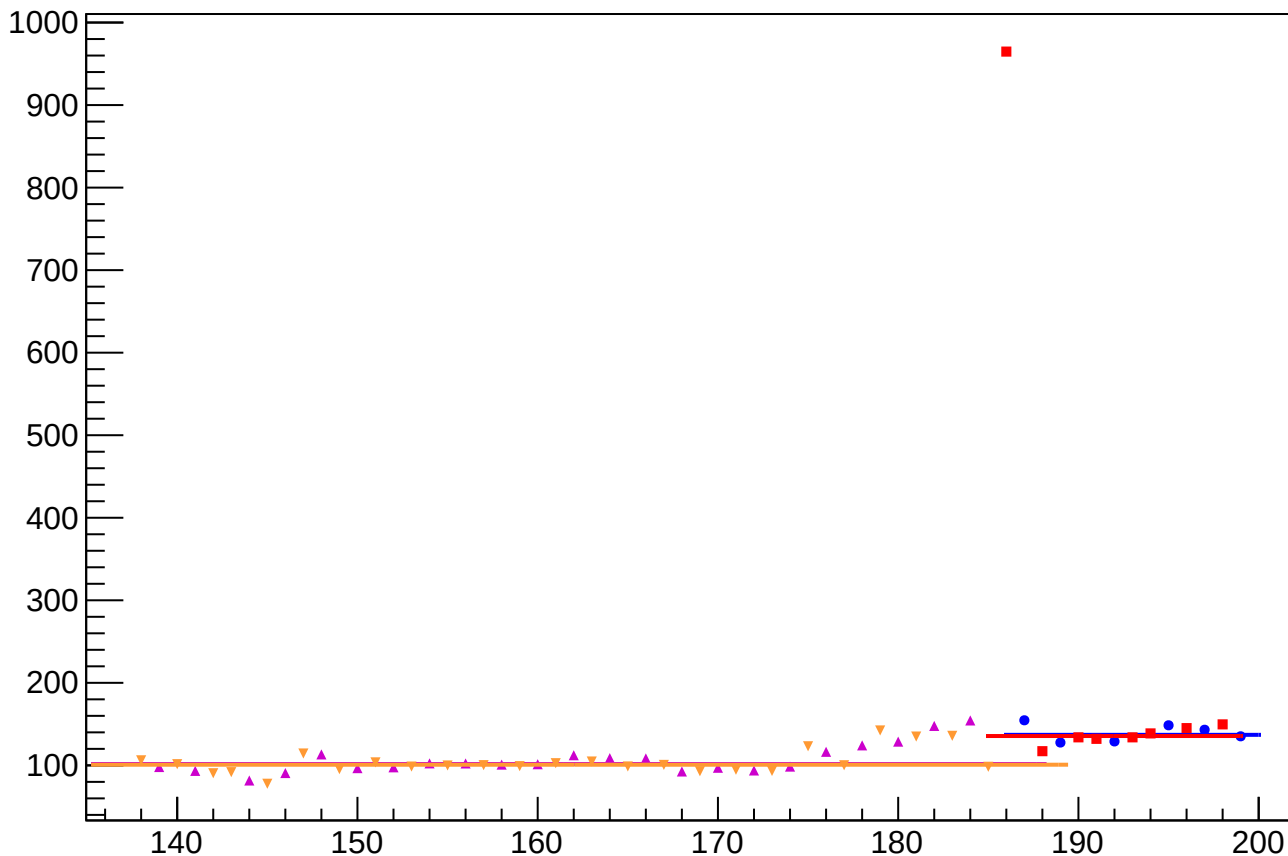
Right: 6.331 ± 46.506 χ^2/NDF : 6.1/13

In: 30.336 ± 23.178 χ^2/NDF : 25.0/28

Out: 50.506 ± 22.177 χ^2/NDF : 34.6/32

All: 40.866 ± 16.023 χ^2/NDF : 60.0/61

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: 135.550 $\pm$ 0.044 χ^2 /NDF: 616954.6/7

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

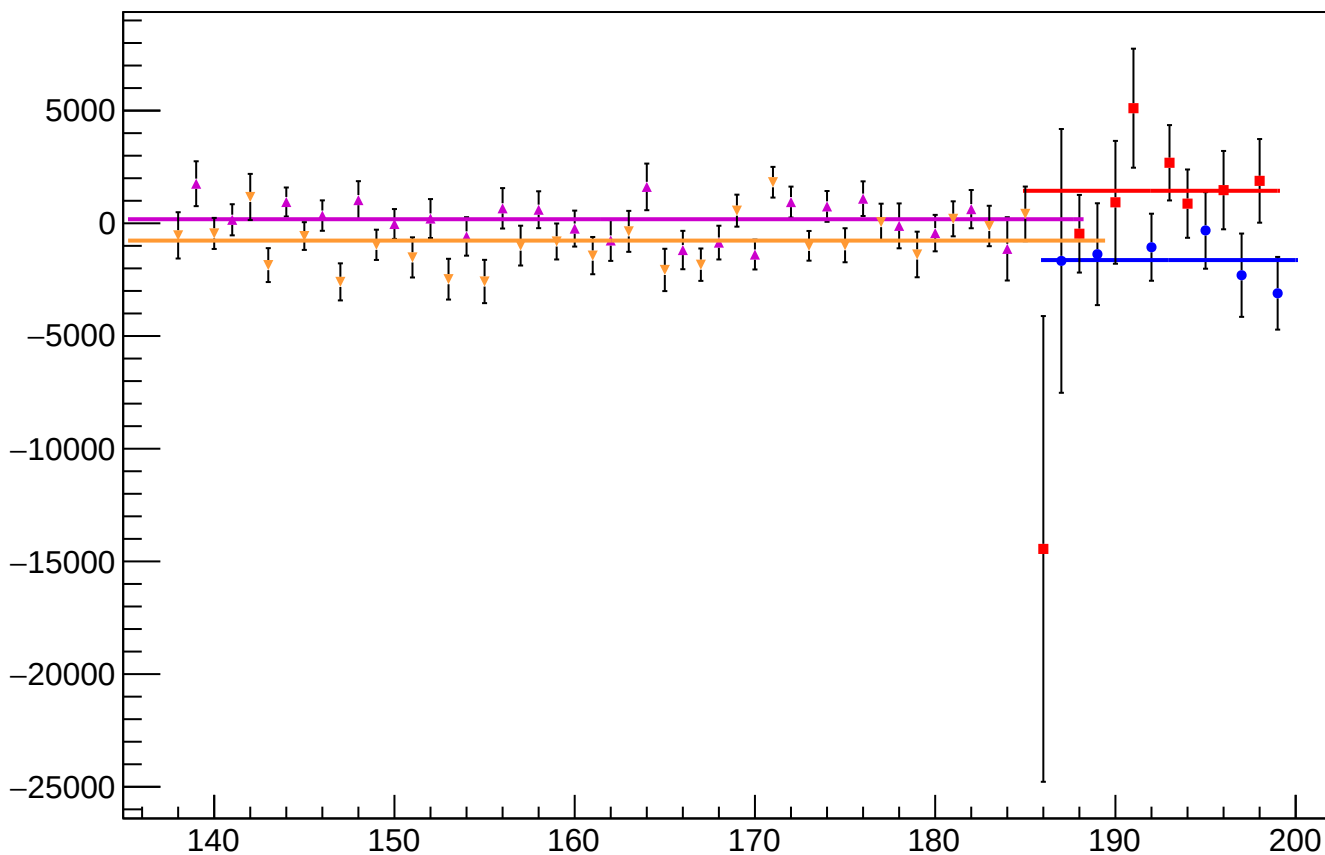
Right: 136.196 $\pm$ 0.033 χ^2 /NDF: 645770.9/13

In: 105.561 $\pm$ 0.016 χ^2 /NDF: 1071602.9/28

Out: 105.159 $\pm$ 0.016 χ^2 /NDF: 1756141.3/32

All: 105.351 $\pm$ 0.011 χ^2 /NDF: 2828057.9/61

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1630.751 ± 766.703 $\chi^2/\text{NDF}: 1.7/5$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 1442.850 ± 700.252 $\chi^2/\text{NDF}: 6.3/7$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

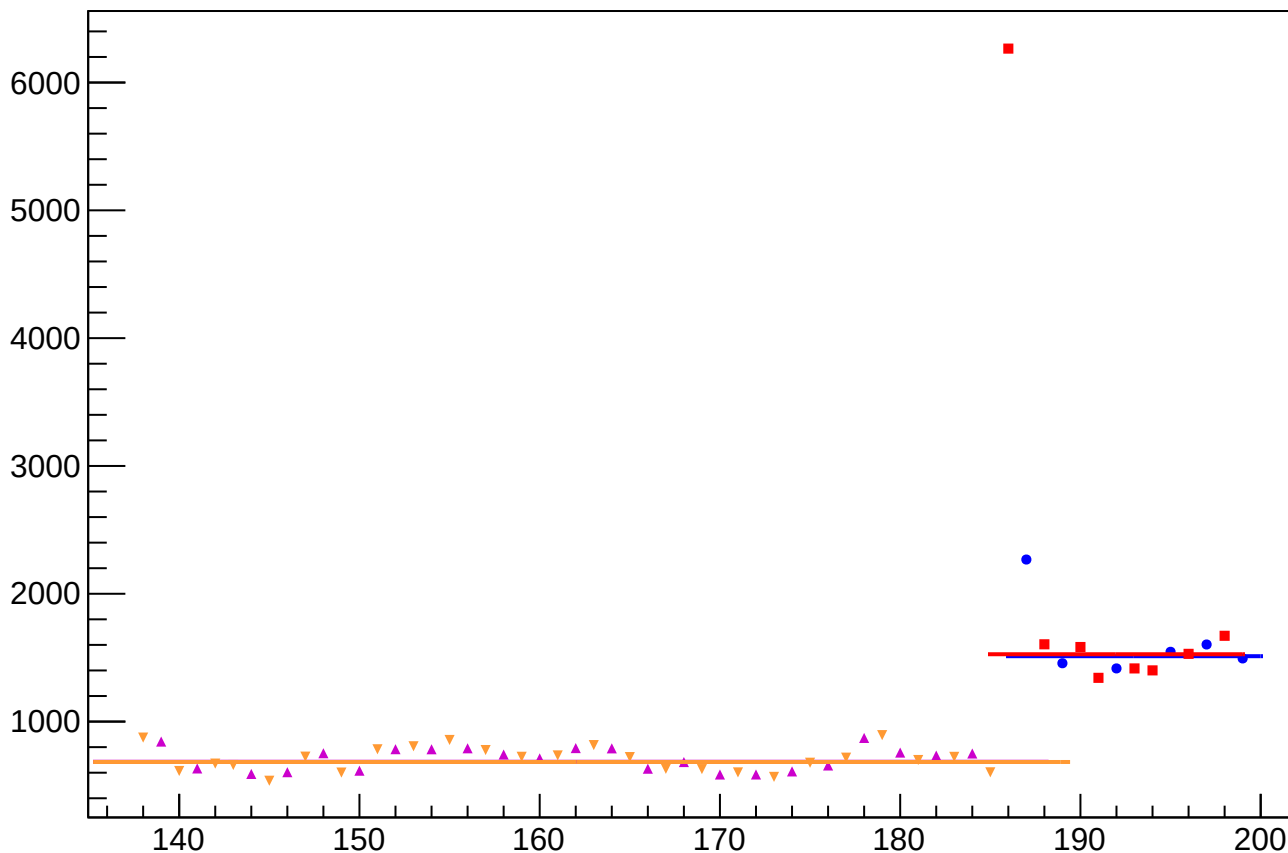
Right: 44.995 ± 517.052 $\chi^2/\text{NDF}: 16.8/13$

In: 100.738 ± 161.933 $\chi^2/\text{NDF}: 32.1/28$

Out: -655.351 ± 156.968 $\chi^2/\text{NDF}: 62.3/32$

All: -289.078 ± 112.708 $\chi^2/\text{NDF}: 105.6/61$

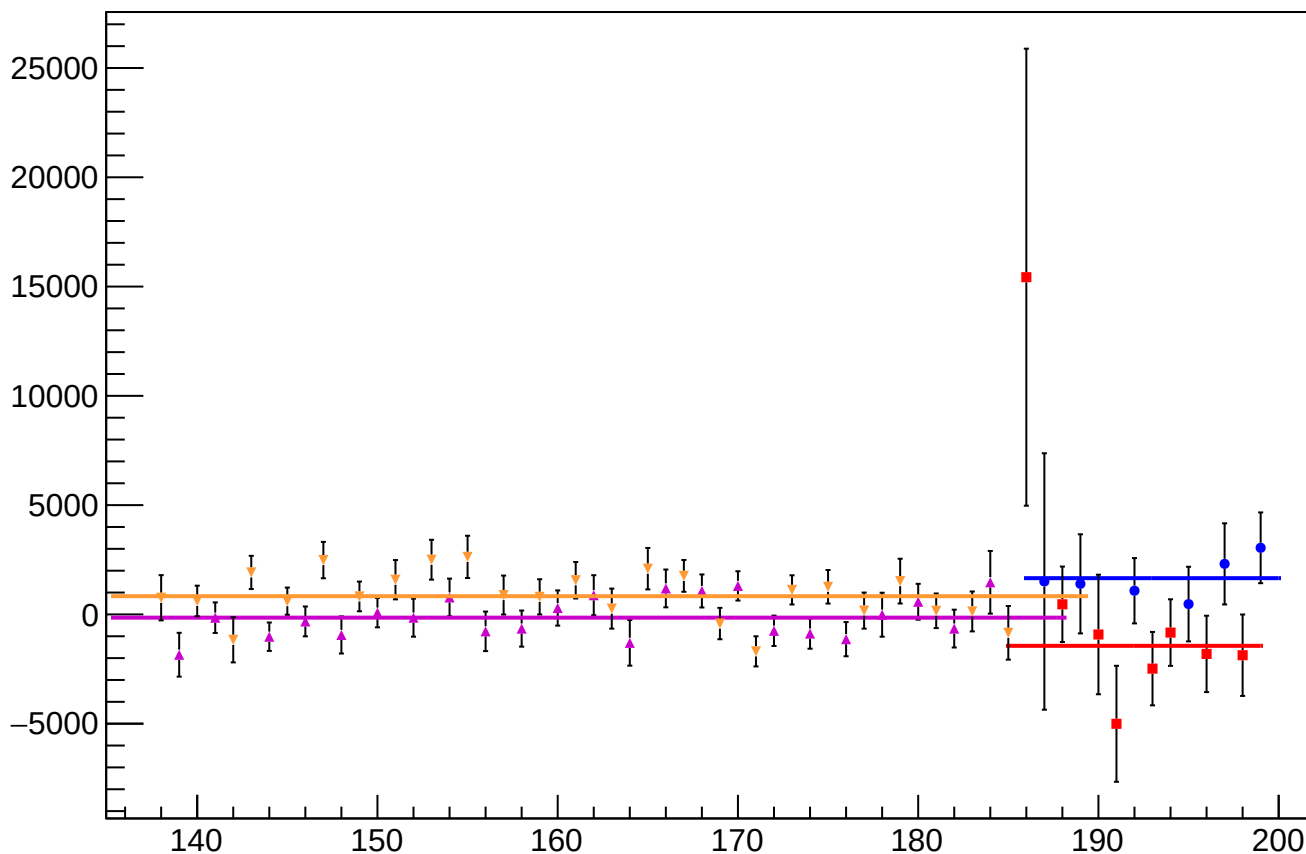
asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1511.611 $\pm$ 0.542 χ^2/NDF : 48827.3/5
 Left Out: 683.884 $\pm$ 0.114 χ^2/NDF : 667158.2/24
 Right Out: 1526.864 $\pm$ 0.495 χ^2/NDF : 470240.4/7
 Left In: 685.593 $\pm$ 0.117 χ^2/NDF : 529353.6/22

Left: 684.715 $\pm$ 0.082 χ^2/NDF : 1196621.1/47
 Right: 1519.927 $\pm$ 0.366 χ^2/NDF : 519499.3/13
 In: 722.440 $\pm$ 0.115 χ^2/NDF : 2796049.6/28
 Out: 726.242 $\pm$ 0.111 χ^2/NDF : 3890142.6/32
 All: 724.400 $\pm$ 0.080 χ^2/NDF : 6686760.3/61

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: -1437.686 ± 703.380 $\chi^2/\text{NDF}: 6.3/7$

Left In: -148.814 ± 167.644 $\chi^2/\text{NDF}: 26.0/22$

Left: 356.189 ± 116.853 $\chi^2/\text{NDF}: 86.9/47$

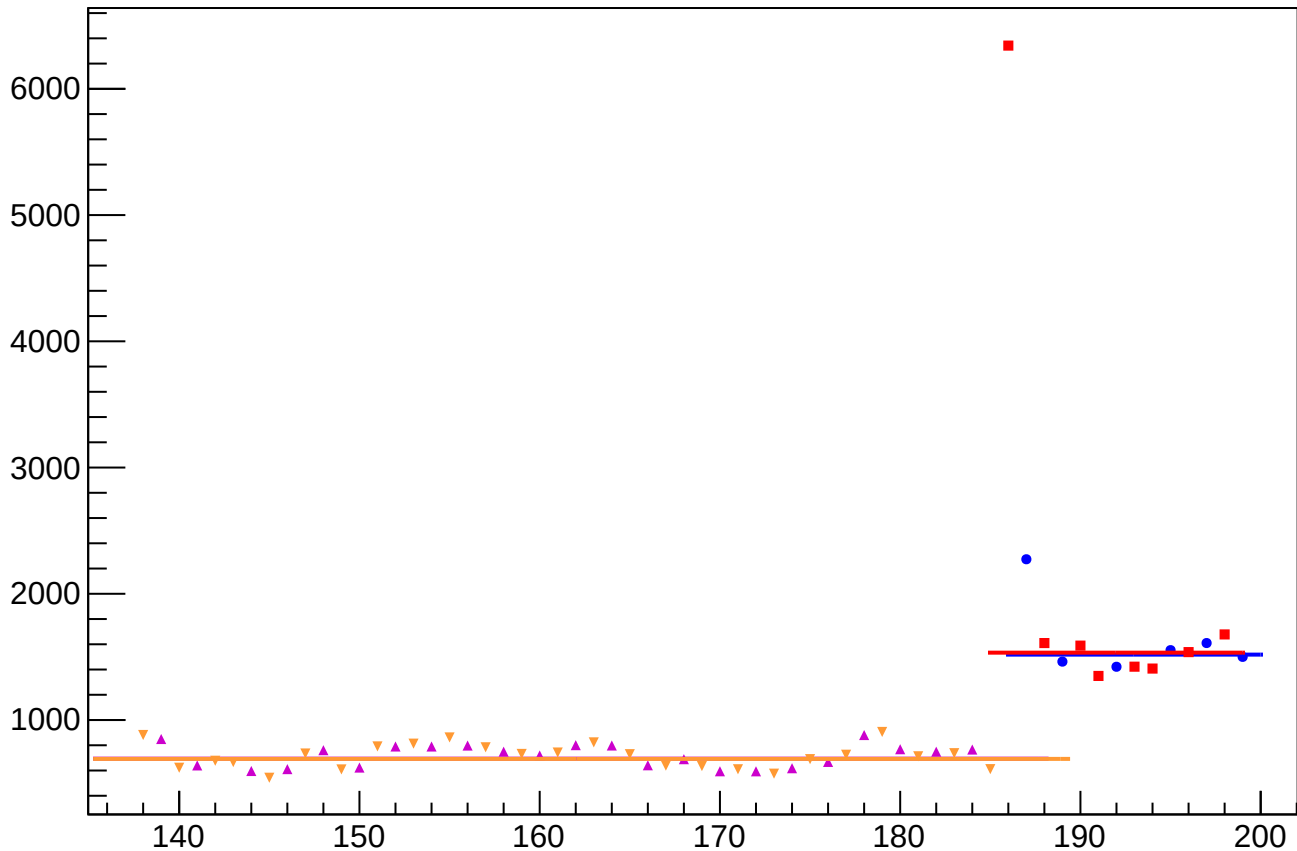
Right: -29.484 ± 519.317 $\chi^2/\text{NDF}: 16.6/13$

In: -67.039 ± 163.807 $\chi^2/\text{NDF}: 32.8/28$

Out: 717.695 ± 158.760 $\chi^2/\text{NDF}: 59.4/32$

All: 337.603 ± 114.002 $\chi^2/\text{NDF}: 104.0/61$

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1518.114+/-0.544 χ^2/NDF : 48657.2/5

Left Out: 692.097+/-0.115 χ^2/NDF : 657259.6/24

Right Out: 1533.641+/-0.497 χ^2/NDF : 471912.1/7

Left In: 693.867+/-0.119 χ^2/NDF : 522053.5/22

Left: 692.957+/-0.083 χ^2/NDF : 1179427.7/47

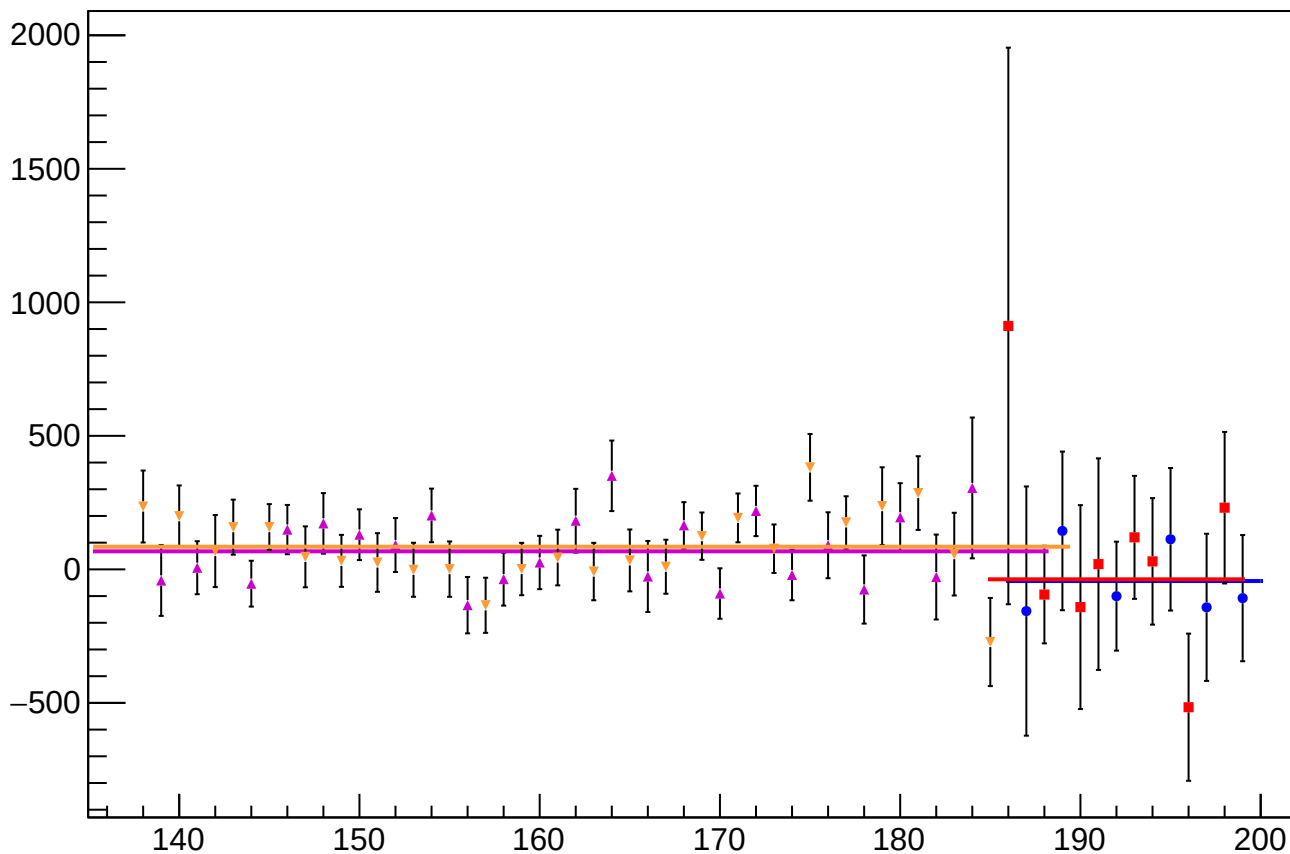
Right: 1526.578+/-0.367 χ^2/NDF : 521012.7/13

In: 731.171+/-0.116 χ^2/NDF : 2758821.8/28

Out: 734.969+/-0.112 χ^2/NDF : 3846208.4/32

All: 733.130+/-0.081 χ^2/NDF : 6605584.5/61

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -43.677 ± 108.414 $\chi^2/\text{NDF}: 1.1/5$

Left Out: 84.860 ± 21.643 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -37.268 ± 96.964 $\chi^2/\text{NDF}: 5.5/7$

Left In: 67.552 ± 22.449 $\chi^2/\text{NDF}: 28.9/22$

Left: 76.522 ± 15.581 $\chi^2/\text{NDF}: 57.7/47$

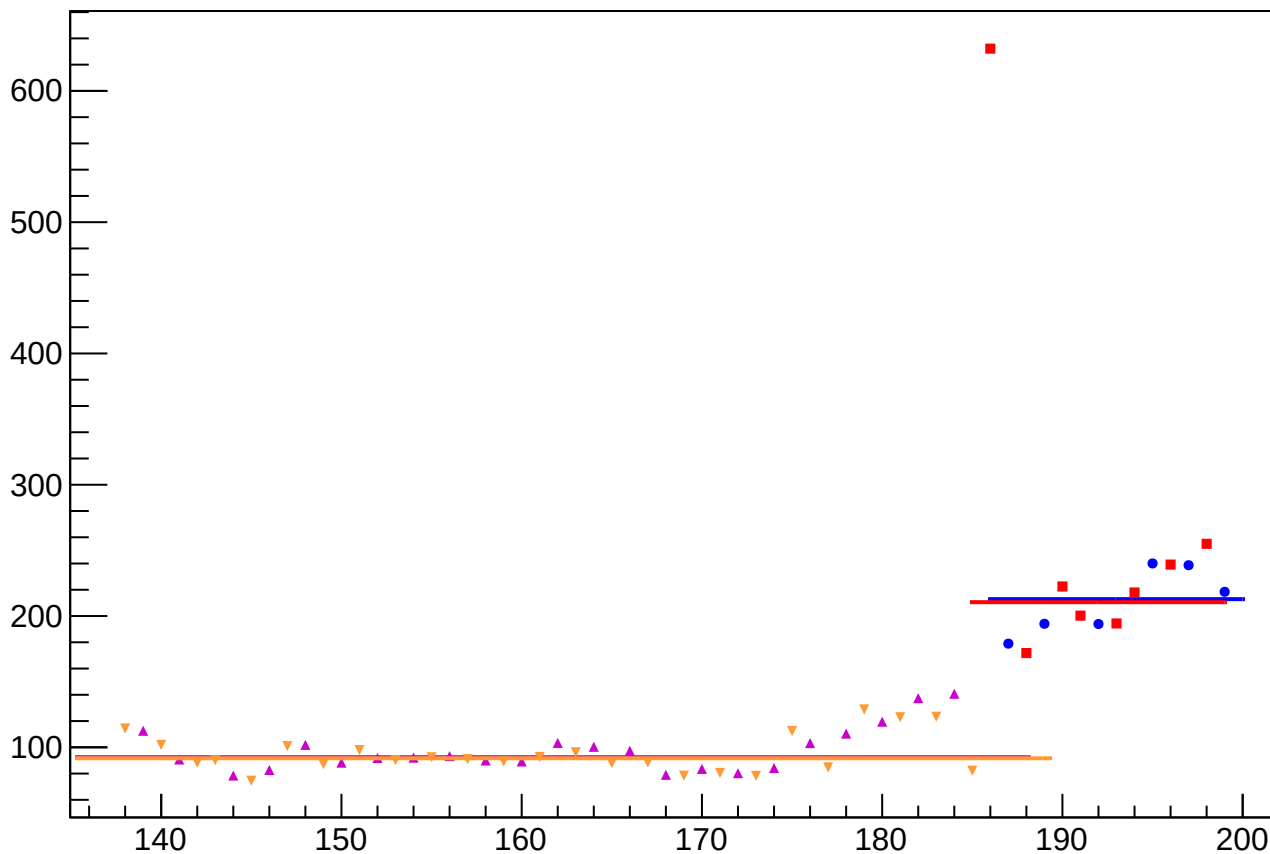
Right: -40.116 ± 72.274 $\chi^2/\text{NDF}: 6.6/13$

In: 62.979 ± 21.983 $\chi^2/\text{NDF}: 30.9/28$

Out: 79.064 ± 21.123 $\chi^2/\text{NDF}: 35.5/32$

All: 71.342 ± 15.231 $\chi^2/\text{NDF}: 66.7/61$

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: 210.548 $\pm$ 0.069 χ^2 /NDF: 503162.0/7

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

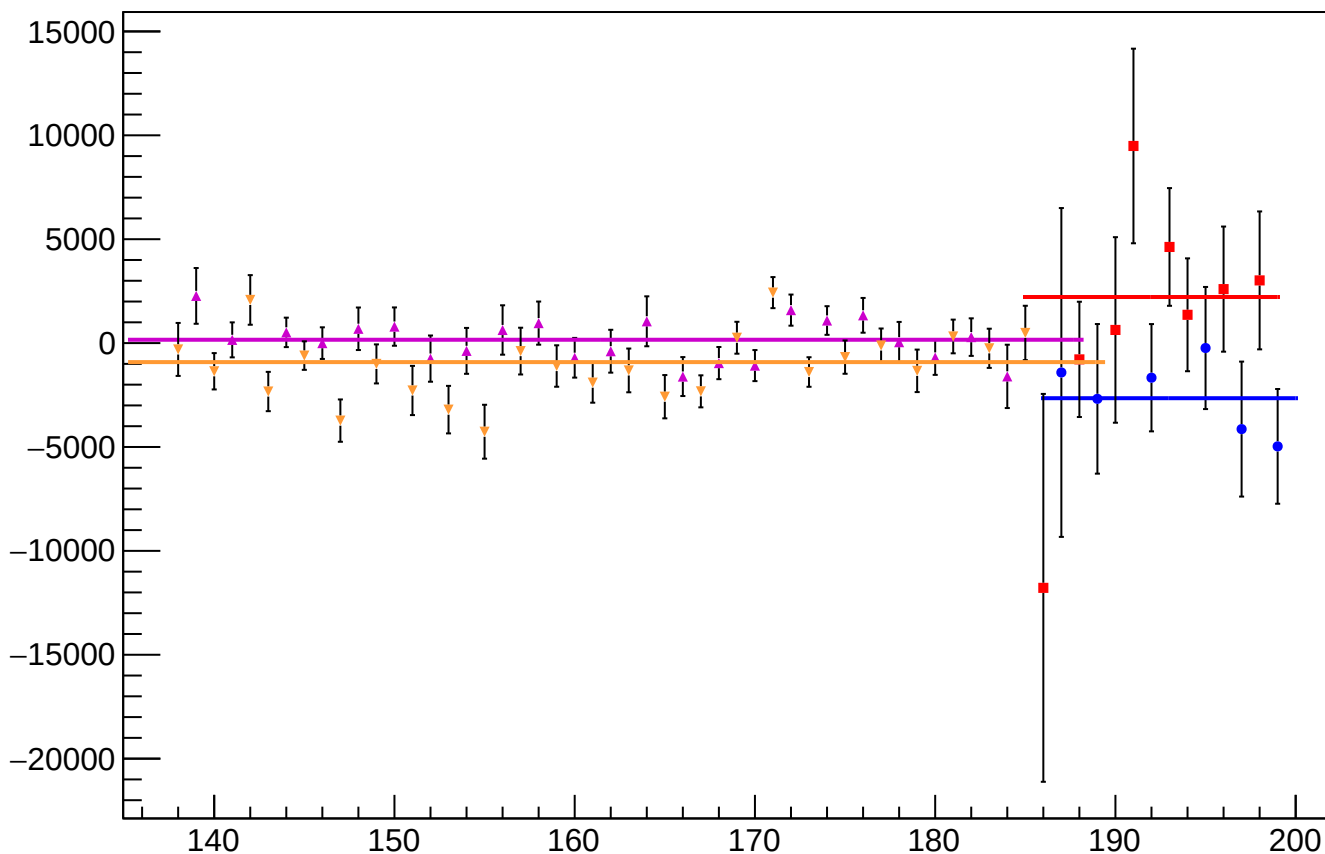
Right: 211.569 $\pm$ 0.051 χ^2 /NDF: 578944.9/13

In: 97.415 $\pm$ 0.016 χ^2 /NDF: 3095473.8/28

Out: 97.276 $\pm$ 0.015 χ^2 /NDF: 4061570.0/32

All: 97.343 $\pm$ 0.011 χ^2 /NDF: 7157085.6/61

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: 2217.937 $\pm$ 1196.599 χ^2 /NDF: 6.9/7

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

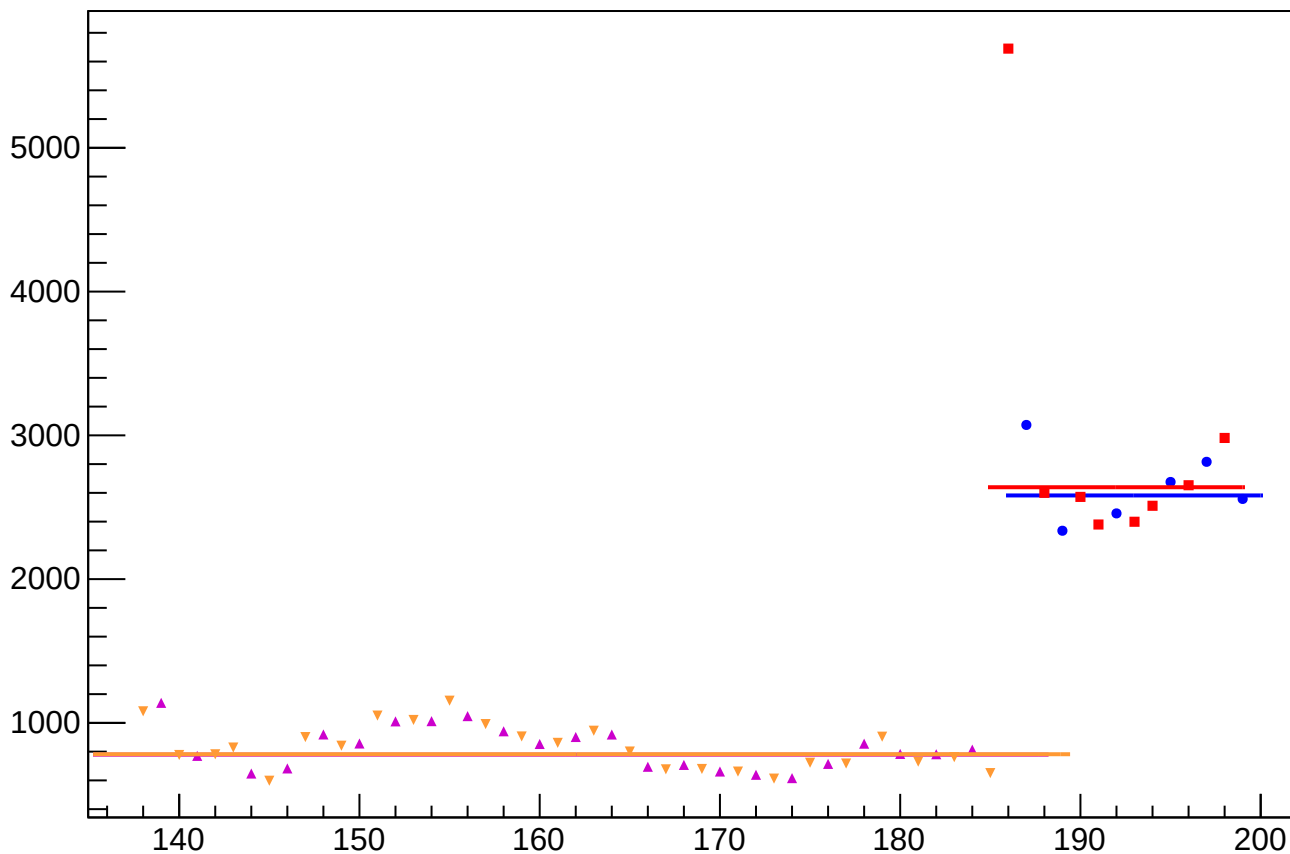
Right: -1.744 $\pm$ 882.748 χ^2 /NDF: 16.2/13

In: 103.209 $\pm$ 187.532 χ^2 /NDF:31.4/28

Out: -841.325 $\pm$ 183.157 χ^2 /NDF:77.7/32

All: -380.204 $\pm$ 131.031 χ^2 /NDF: 122.1/61

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: 2639.157 $\pm$ 0.846 χ^2 /NDF: 260898.8/7

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

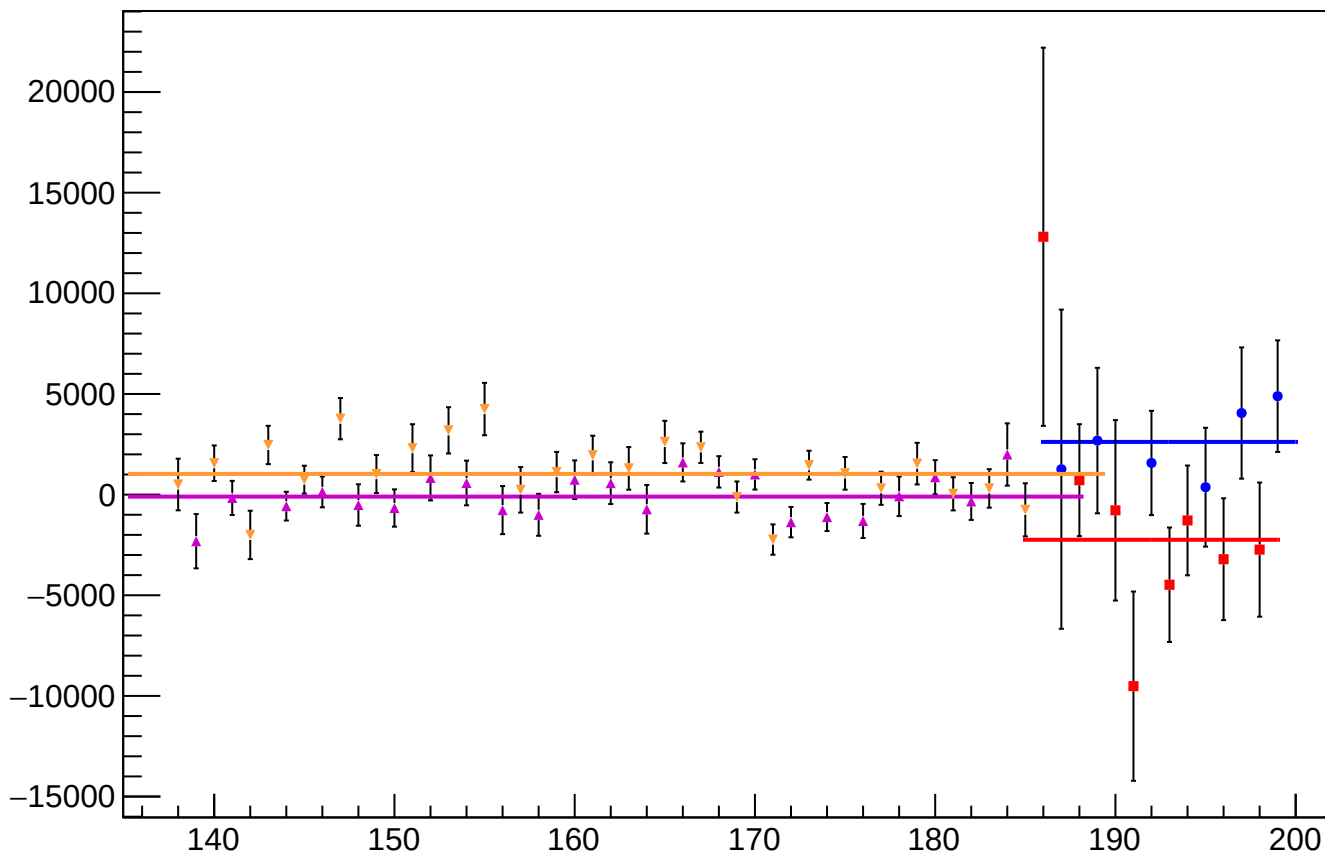
Right: 2613.126 $\pm$ 0.624 χ^2 /NDF: 297196.6/13

In: 816.083 $\pm$ 0.133 χ^2 /NDF: 4739230.1/28

Out: 825.552 $\pm$ 0.130 χ^2 /NDF: 6096394.0/32

All: 820.929 $\pm$ 0.093 χ^2 /NDF: 10838233.7/63

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: -2242.741 $\pm$ 1201.065 χ^2 /NDF: 7.1/7

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

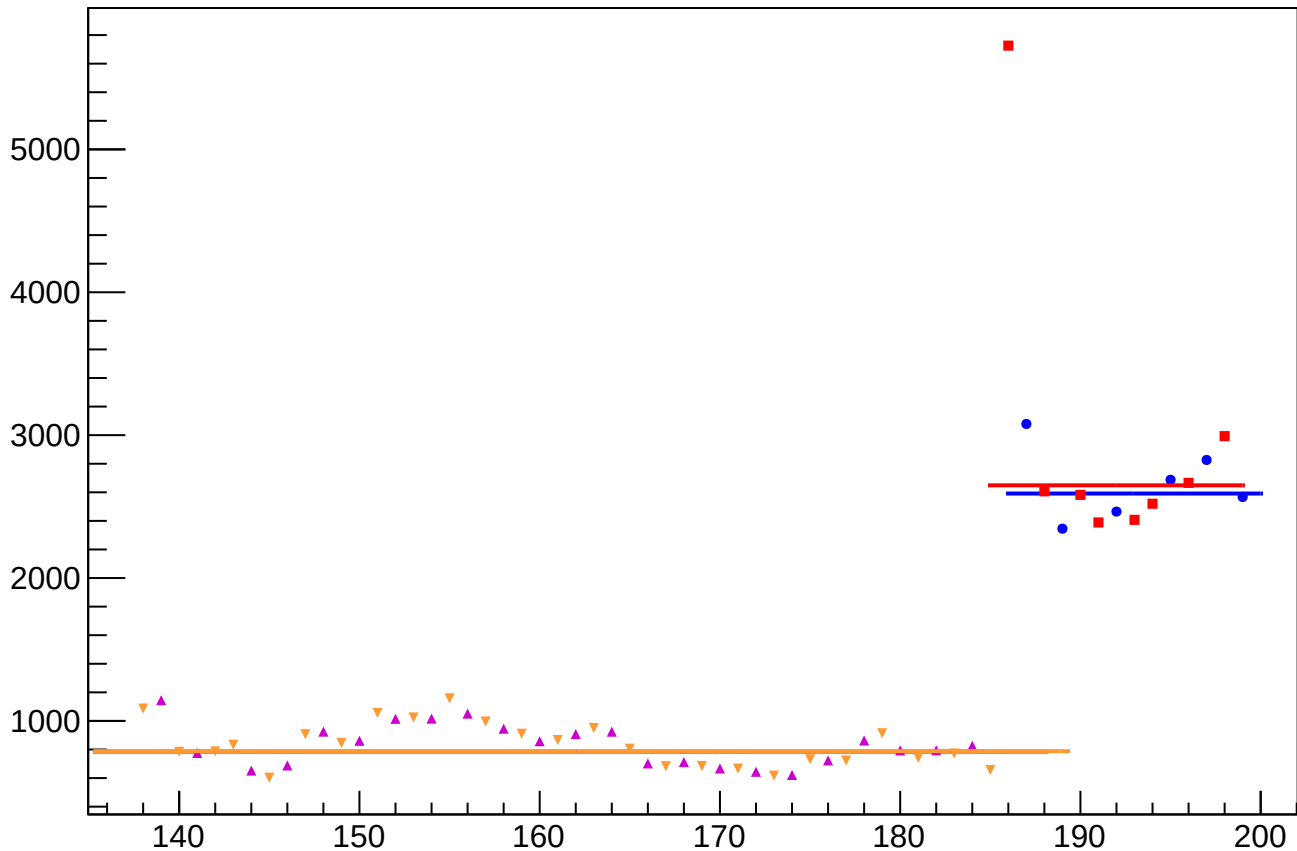
Right: -26.752 $\pm$ 886.015 χ^2 /NDF: 16.2/13

In: -42.305 $\pm$ 189.035 χ^2 /NDF:31.2/28

Out: 951.587 $\pm$ 184.591 χ^2 /NDF:74.5/32

All: 466.461 $\pm$ 132.069 χ^2 /NDF: 119.8/61

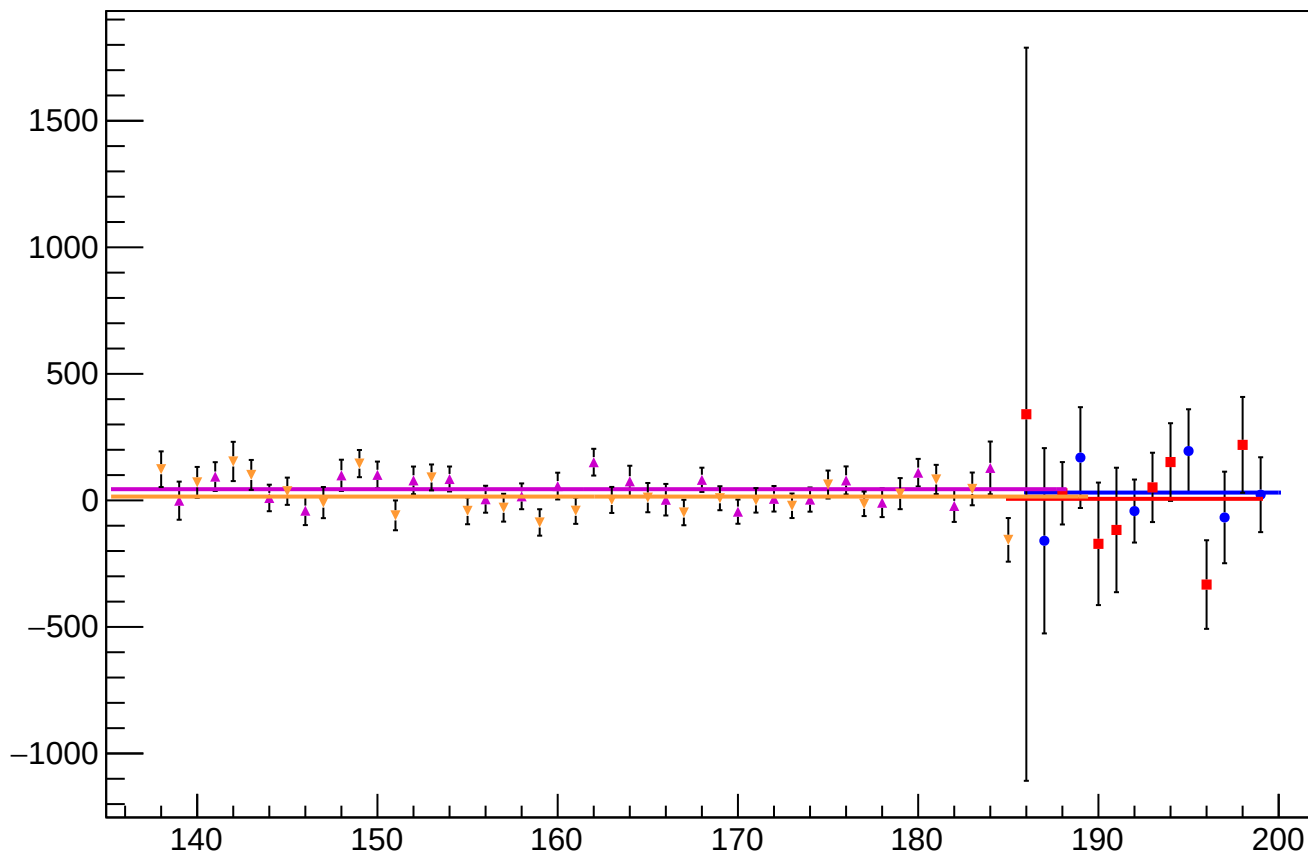
asym_sam_3748_avg_rms vs Slug, Sign Corrected



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: 2648.915 $\pm$ 0.849 χ^2/NDF : 261966.2/7
 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: 2622.749 $\pm$ 0.627 χ^2/NDF : 298314.0/13
 In: 822.963 $\pm$ 0.134 χ^2/NDF :4708729.0/28
 Out: 832.387 $\pm$ 0.131 χ^2/NDF :6061280.3/32
 All: 827.787 $\pm$ 0.093 χ^2/NDF : 10772554.0/63

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 30.894+/-68.980 χ^2/NDF : 2.4/5

Left Out: 15.099+/-11.154 χ^2/NDF :34.2/24

Right Out: 6.188+/-62.491 χ^2/NDF : 6.9/7

Left In: 44.297+/-11.530 χ^2/NDF :22.3/22

Left: 29.215+/-8.017 χ^2/NDF : 59.8/47

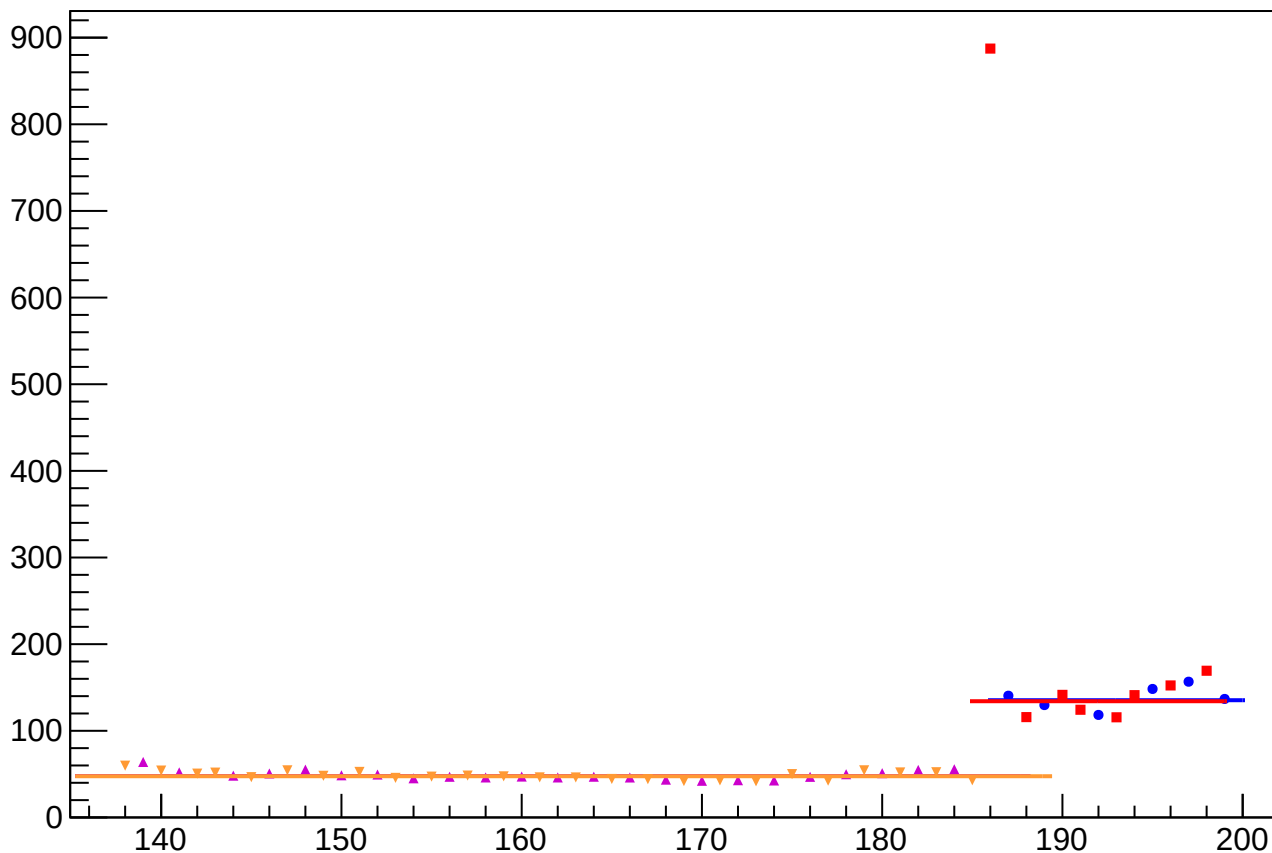
Right: 17.325+/-46.312 χ^2/NDF : 9.3/13

In: 43.933+/-11.372 χ^2/NDF :24.7/28

Out: 14.824+/-10.981 χ^2/NDF :41.1/32

All: 28.869+/-7.899 χ^2/NDF : 69.2/61

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: 134.145 $\pm$ 0.044 χ^2 /NDF: 721542.0/7

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

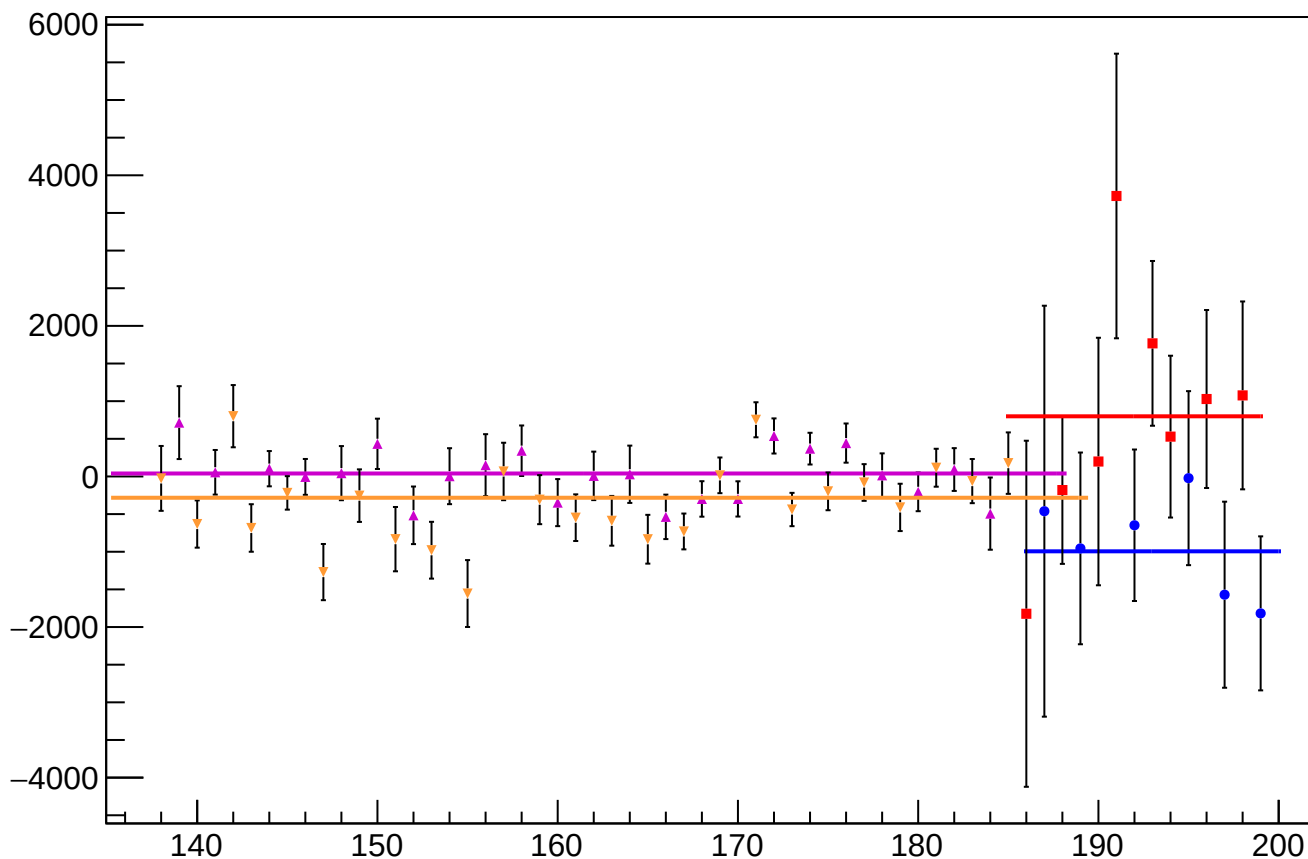
Right: 134.670 $\pm$ 0.033 χ^2 /NDF: 801525.8/13

In: 50.223 $\pm$ 0.008 χ^2 /NDF: 3489513.7/28

Out: 50.259 $\pm$ 0.008 χ^2 /NDF: 4753151.0/32

All: 50.242 $\pm$ 0.006 χ^2 /NDF: 8242674.8/61

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: 798.869 ± 449.977 $\chi^2/\text{NDF}: 5.8/7$

Left In: 39.432 ± 60.759 $\chi^2/\text{NDF}: 27.5/22$

Left: -124.543 ± 42.580 $\chi^2/\text{NDF}: 108.4/47$

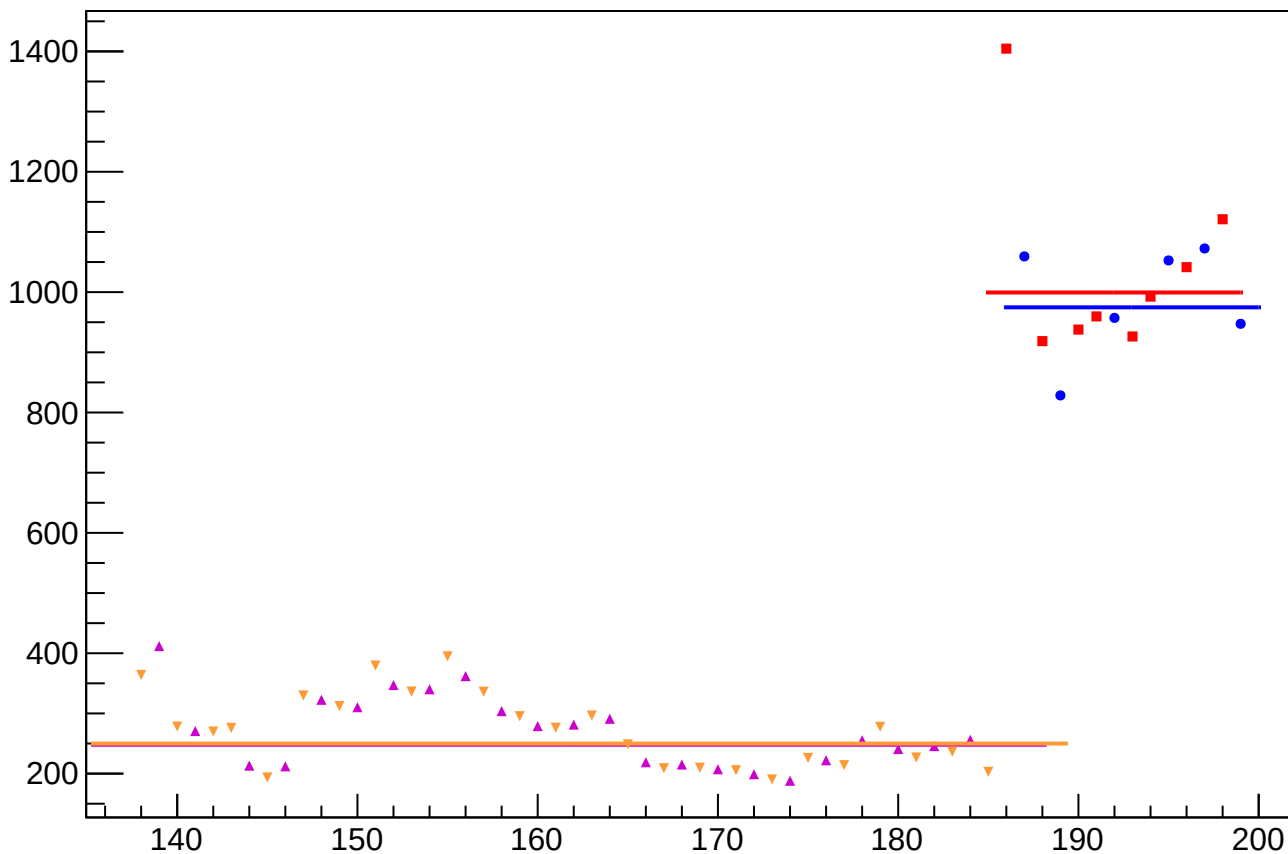
Right: -14.368 ± 332.642 $\chi^2/\text{NDF}: 14.7/13$

In: 24.024 ± 60.304 $\chi^2/\text{NDF}: 33.6/28$

Out: -264.094 ± 59.171 $\chi^2/\text{NDF}: 78.0/32$

All: -122.767 ± 42.235 $\chi^2/\text{NDF}: 123.2/61$

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: 999.419+/-0.318 χ^2/NDF : 110001.9/7

Left In: 247.917+/-0.043 χ^2/NDF : 1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47

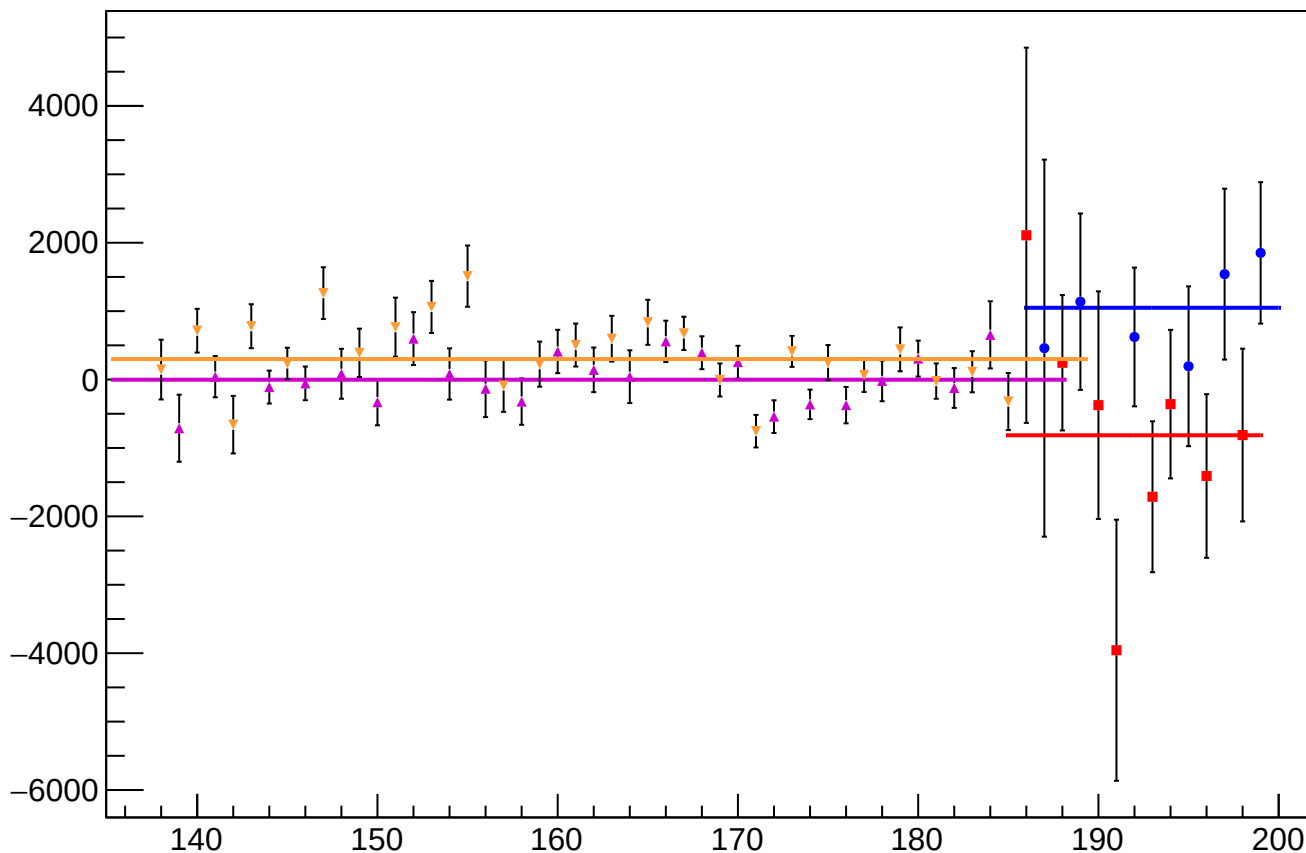
Right: 988.231+/-0.235 χ^2/NDF : 164741.6/13

In: 258.751+/-0.043 χ^2/NDF : 5728854.4/28

Out: 262.916+/-0.042 χ^2/NDF : 7176430.0/32

All: 260.873+/-0.030 χ^2/NDF : 12910146.2/63

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: -814.227 $\pm$ 457.060 χ^2 /NDF: 6.2/7

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

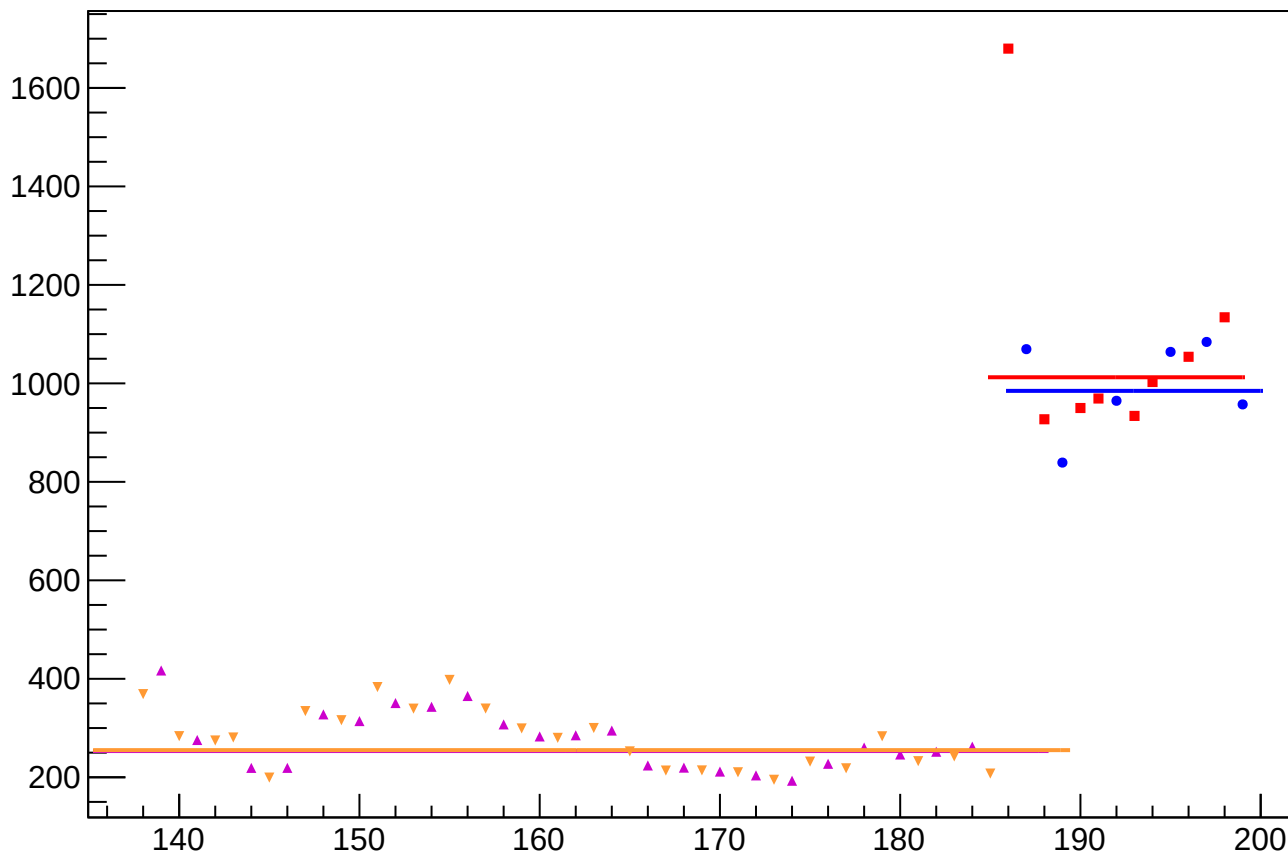
Right: 35.910 $\pm$ 337.049 χ^2 /NDF: 15.3/13

In: 13.802 $\pm$ 61.532 χ^2 /NDF:35.1/28

Out: 280.159 $\pm$ 60.327 χ^2 /NDF:74.5/32

All: 149.612 $\pm$ 43.077 χ^2 /NDF: 119.1/61

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 984.768 $\pm$ 0.353 χ^2 /NDF: 51456.8/5

Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF:1542039.5/24

Right Out: 1012.404 $\pm$ 0.323 χ^2 /NDF: 168494.1/7

Left In: 253.287 $\pm$ 0.044 χ^2 /NDF:1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2 /NDF: 2884606.5/47

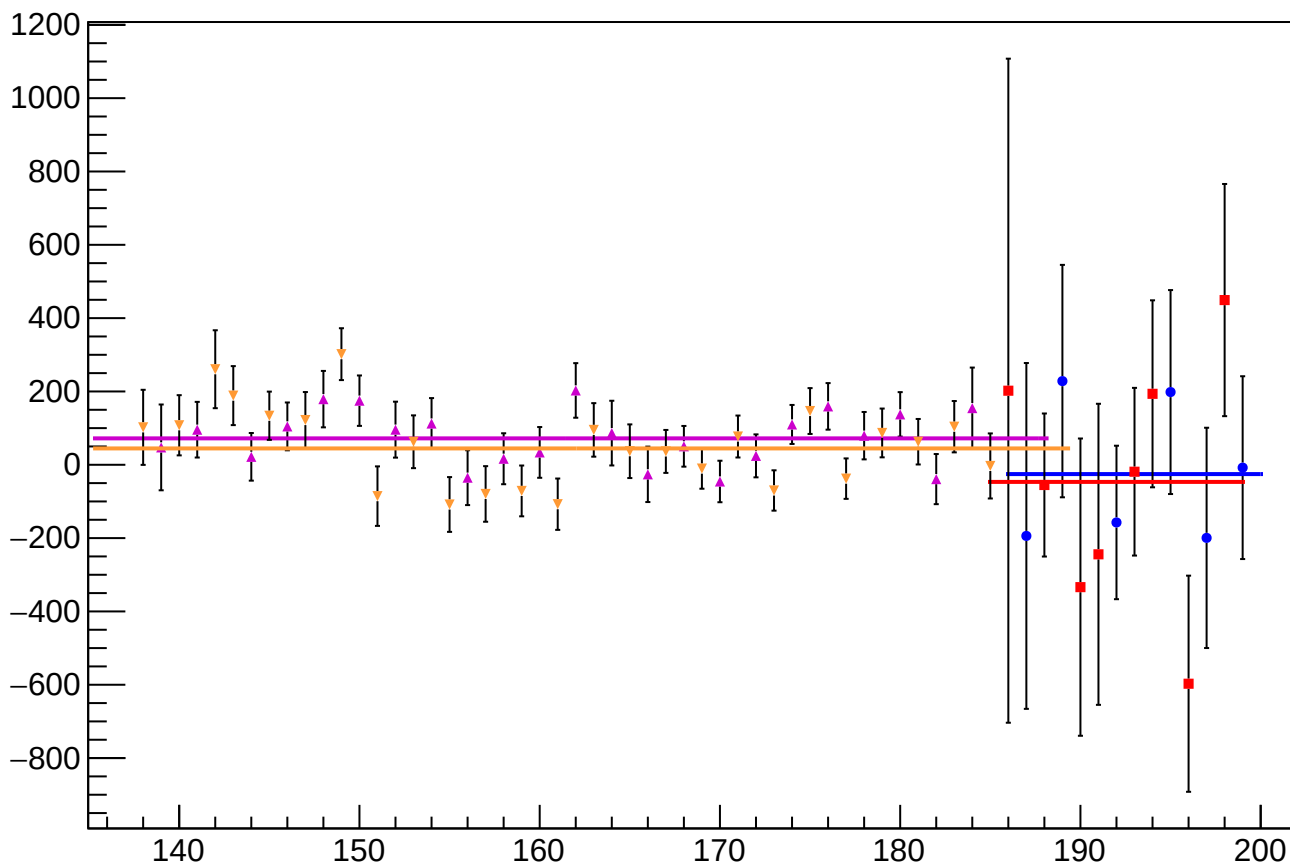
Right: 999.796 $\pm$ 0.238 χ^2 /NDF: 223286.5/13

In: 264.409 $\pm$ 0.044 χ^2 /NDF:5625152.6/28

Out: 268.328 $\pm$ 0.043 χ^2 /NDF:7105031.0/32

All: 266.407 $\pm$ 0.030 χ^2 /NDF: 12734320.2/63

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -25.367 ± 113.696 χ^2/NDF : 2.2/5

Left Out: 44.602 ± 13.824 χ^2/NDF : 53.9/24

Right Out: -46.706 ± 102.339 χ^2/NDF : 7.7/7

Left In: 72.037 ± 14.296 χ^2/NDF : 25.3/22

Left: 57.859 ± 9.938 χ^2/NDF : 81.1/47

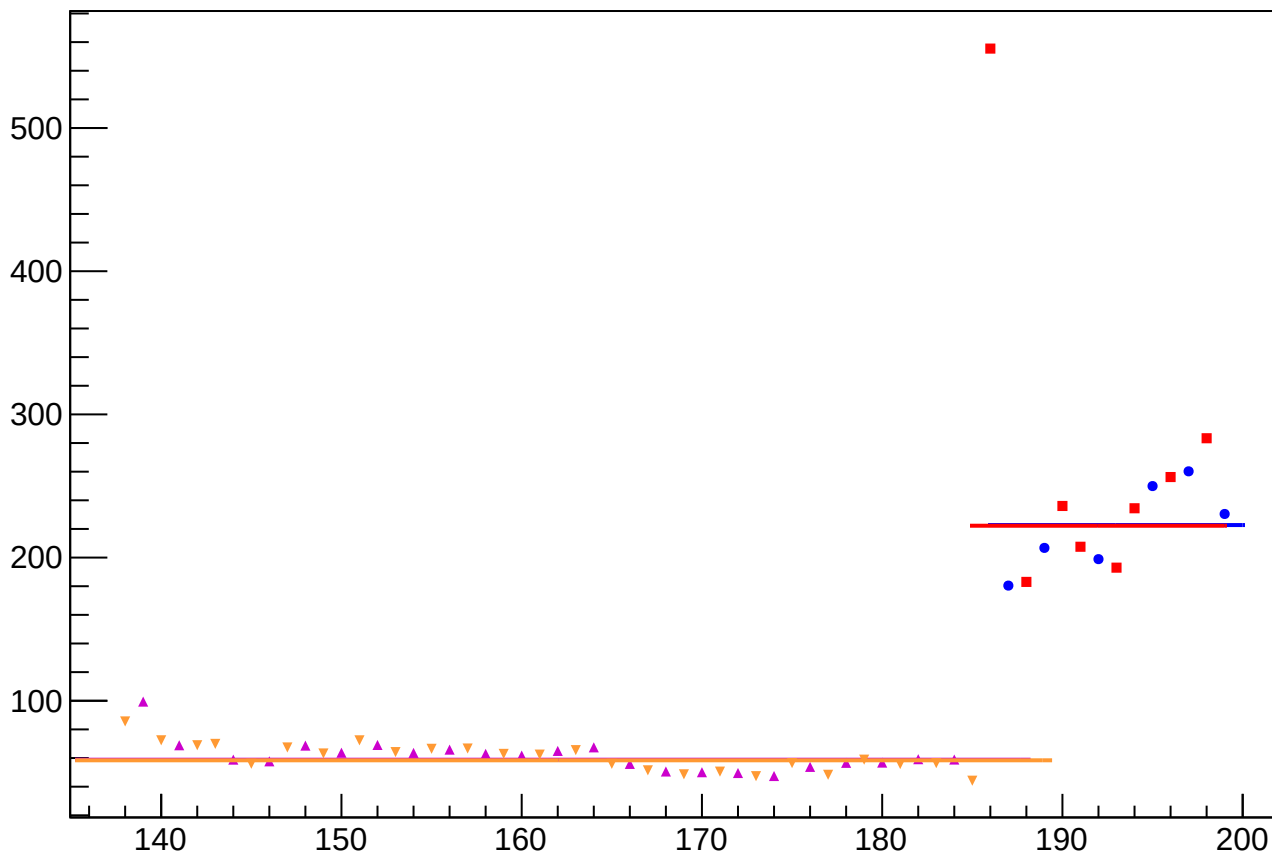
Right: -37.155 ± 76.064 χ^2/NDF : 9.8/13

In: 70.521 ± 14.185 χ^2/NDF : 28.2/28

Out: 42.966 ± 13.700 χ^2/NDF : 62.3/32

All: 56.264 ± 9.854 χ^2/NDF : 92.5/61

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 222.719 $\pm$ 0.080 χ^2 /NDF: 99277.7/5

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 222.253 $\pm$ 0.072 χ^2 /NDF: 494959.3/7

Left In: 58.840 $\pm$ 0.010 χ^2 /NDF: 679925.7/22

Left: 58.624 $\pm$ 0.007 χ^2 /NDF: 1470896.0/47

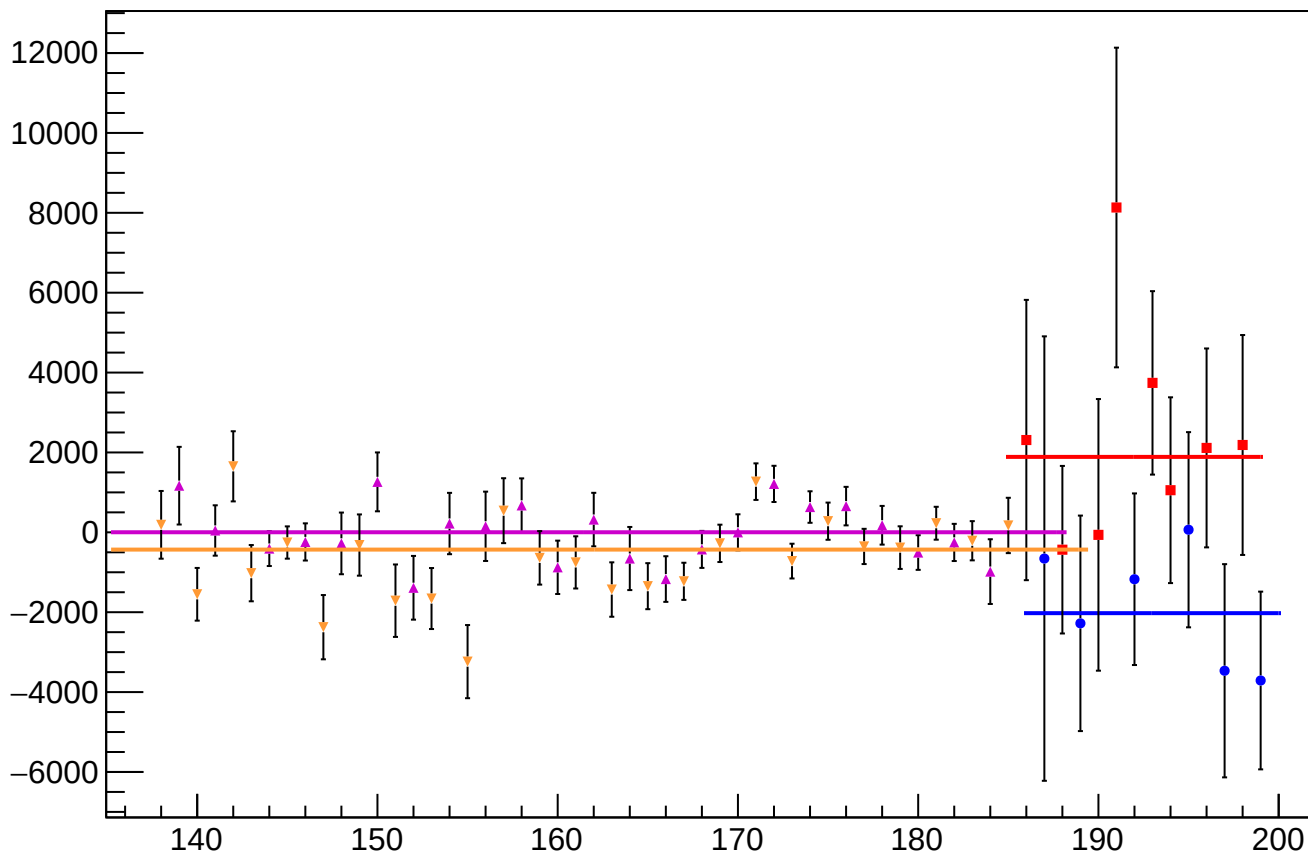
Right: 222.462 $\pm$ 0.054 χ^2 /NDF: 594255.6/13

In: 61.390 $\pm$ 0.010 χ^2 /NDF: 4869675.7/28

Out: 61.359 $\pm$ 0.010 χ^2 /NDF: 6318728.5/32

All: 61.374 $\pm$ 0.007 χ^2 /NDF: 11188409.3/61

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -2023.772 $\pm$ 1056.372 χ^2 /NDF: 1.8/5

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 1888.781 $\pm$ 942.798 χ^2 /NDF: 4.8/7

Left In: 1.825 $\pm$ 116.459 χ^2 /NDF:32.3/22

Left: -219.109 $\pm$ 81.614 χ^2 /NDF: 98.8/47

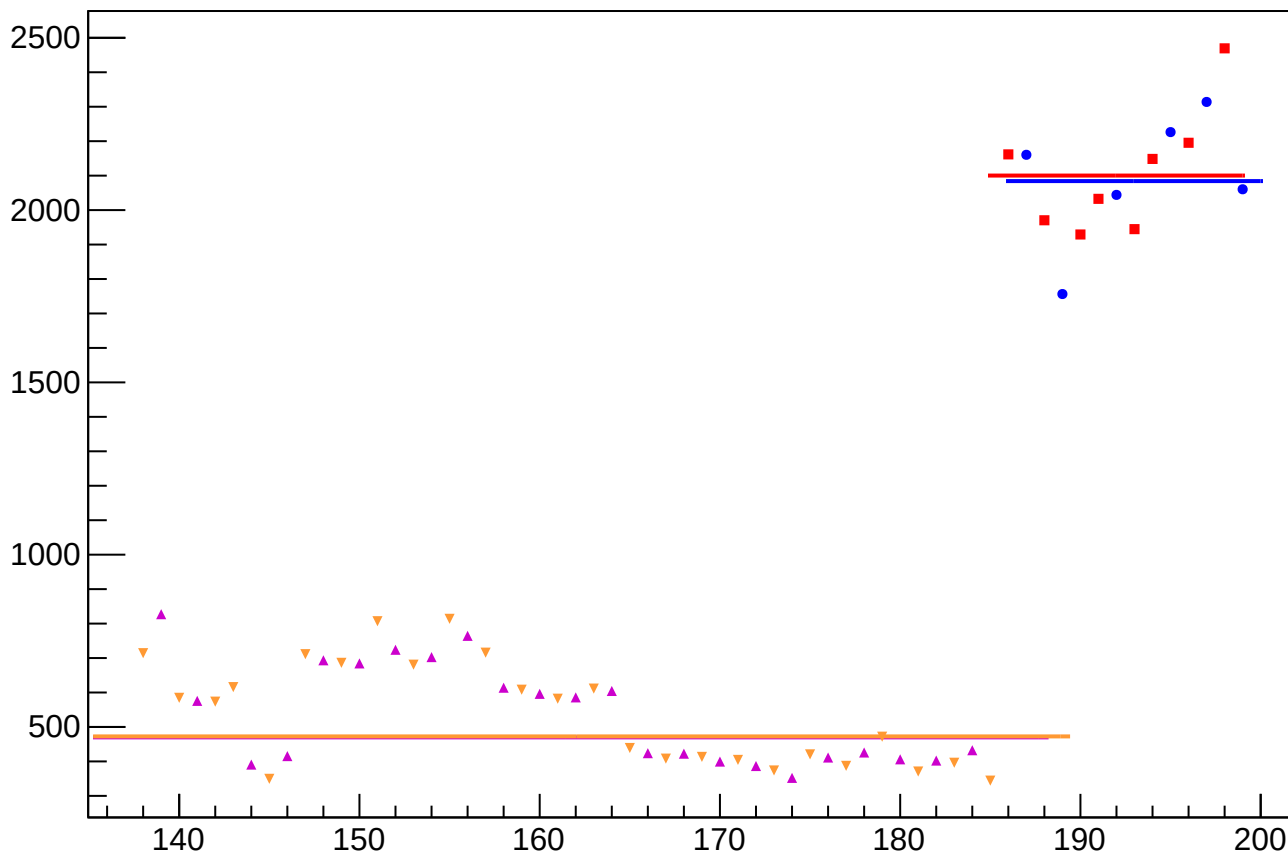
Right: 154.066 $\pm$ 703.398 χ^2 /NDF: 14.3/13

In: -22.498 $\pm$ 115.757 χ^2 /NDF:37.8/28

Out: -398.646 $\pm$ 113.575 χ^2 /NDF:70.2/32

All: -214.152 $\pm$ 81.070 χ^2 /NDF: 113.3/61

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: 2100.231+/-0.667 χ^2/NDF : 62811.5/7

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

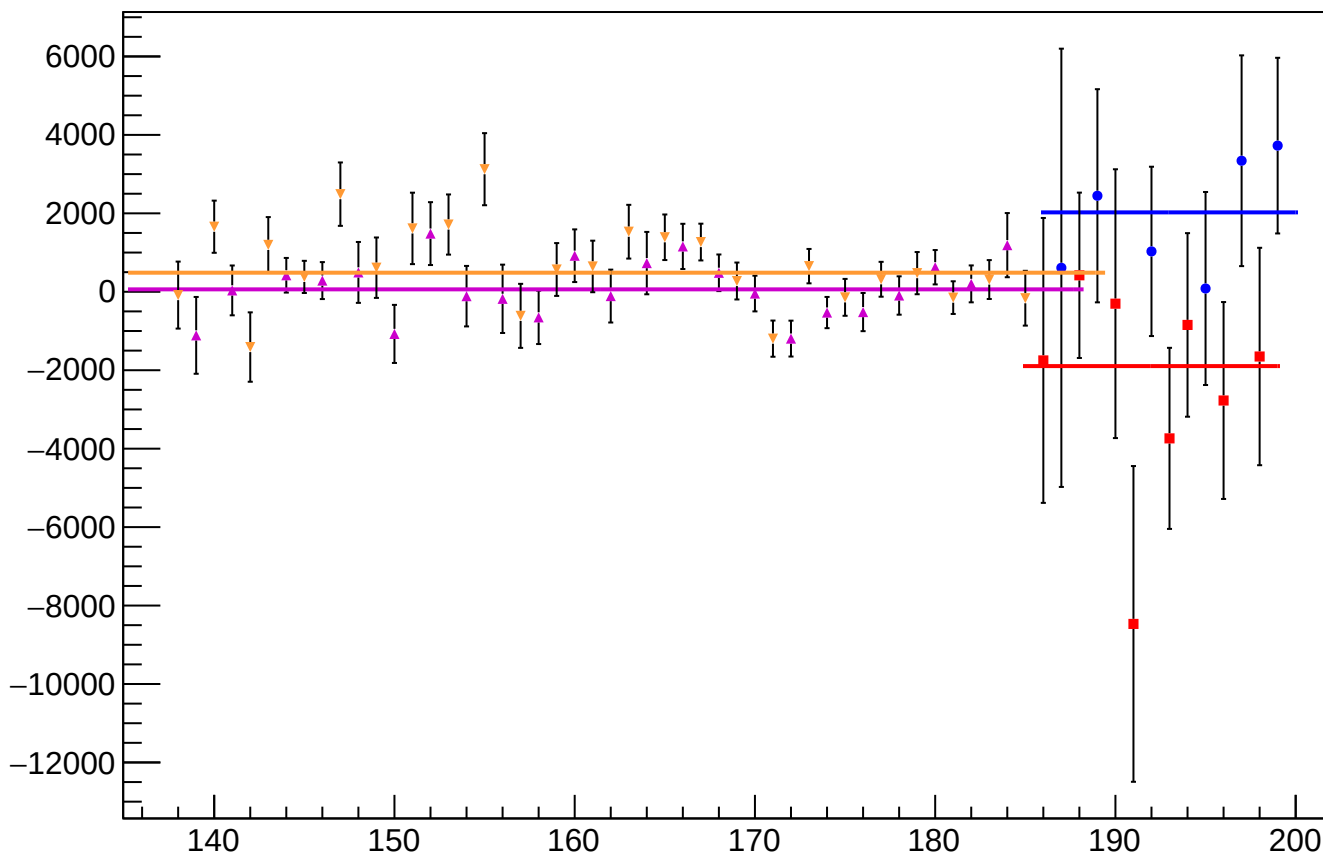
Right: 2093.119+/-0.497 χ^2/NDF : 115468.3/13

In: 489.147+/-0.082 χ^2/NDF : 6784459.3/28

Out: 496.189+/-0.080 χ^2/NDF : 8445506.6/32

All: 492.735+/-0.057 χ^2/NDF : 15233737.6/63

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 2024.412+/-1062.885 χ^2/NDF : 1.7/5

Left Out: 486.645+/-115.346 χ^2/NDF :56.0/24

Right Out: -1894.597+/-950.516 χ^2/NDF : 5.1/7

Left In: 61.775+/-117.449 χ^2/NDF :31.2/22

Left: 278.047+/-82.295 χ^2/NDF : 93.8/47

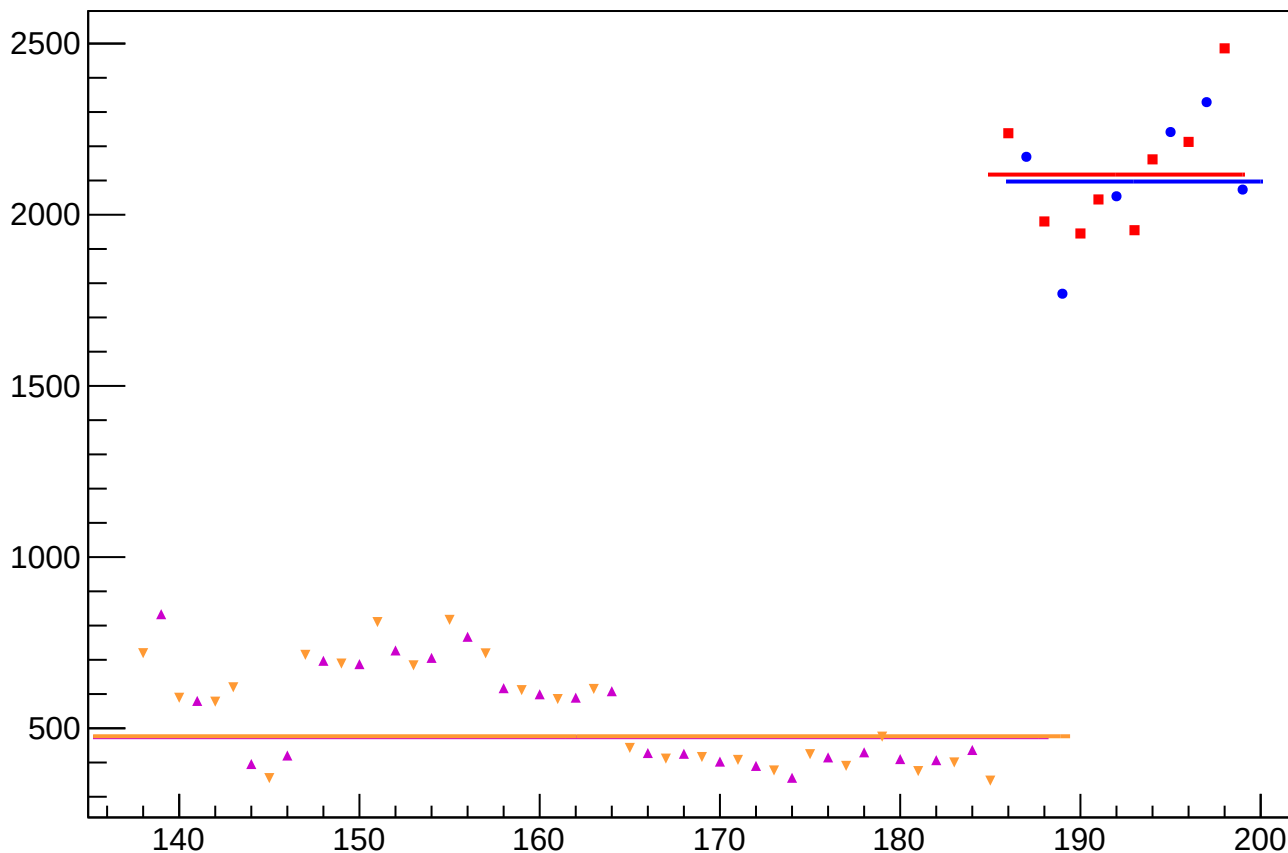
Right: -153.135+/-708.525 χ^2/NDF : 14.4/13

In: 85.450+/-116.738 χ^2/NDF :36.3/28

Out: 452.088+/-114.506 χ^2/NDF :67.3/32

All: 272.308+/-81.746 χ^2/NDF : 108.6/61

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: 2117.311 $\pm$ 0.672 χ^2 /NDF: 65258.3/7

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

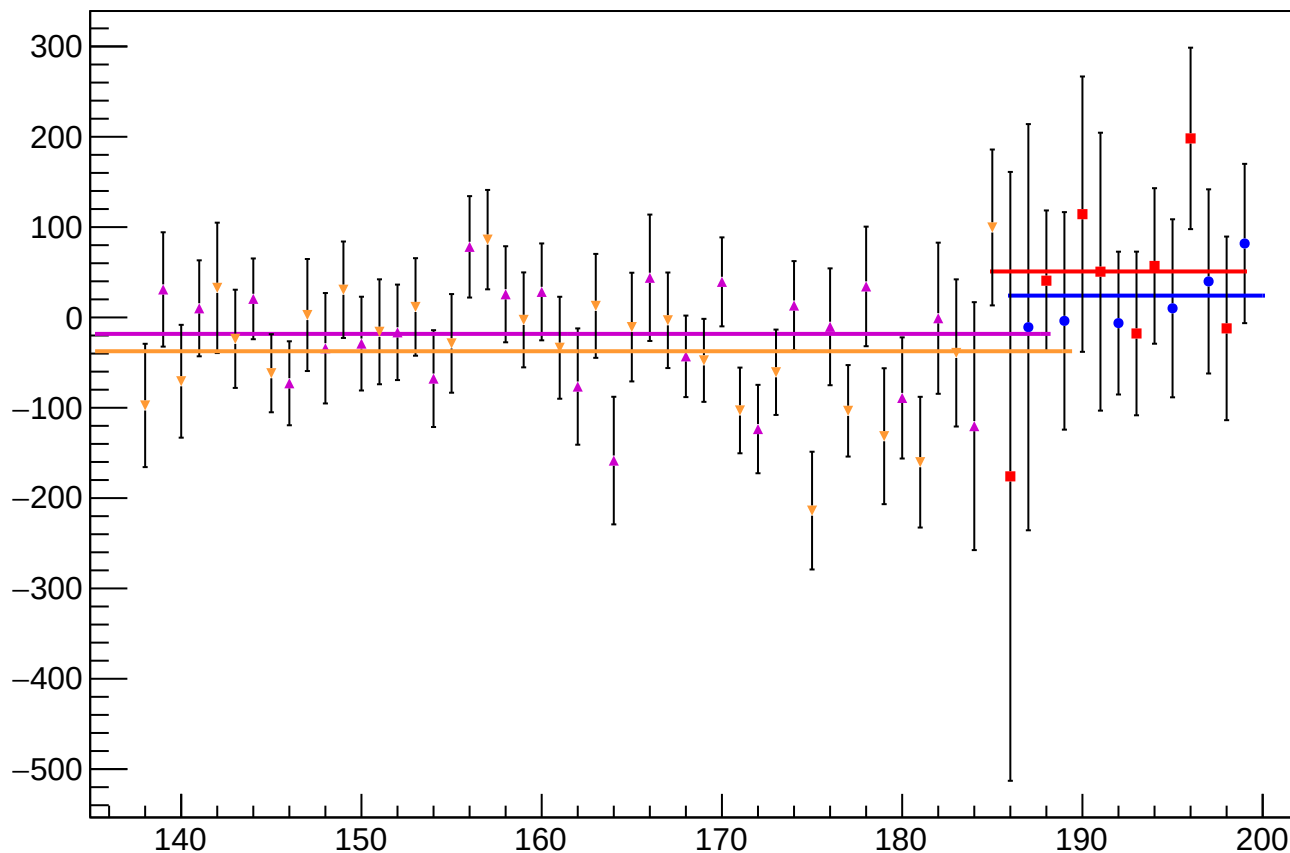
Right: 2108.302 $\pm$ 0.501 χ^2 /NDF: 117901.5/13

In: 493.562 $\pm$ 0.083 χ^2 /NDF: 6746713.7/28

Out: 500.499 $\pm$ 0.081 χ^2 /NDF: 8409900.4/32

All: 497.098 $\pm$ 0.058 χ^2 /NDF: 15160213.4/63

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 24.164 $\pm$ 41.645 χ^2 /NDF: 0.7/5

Left Out: -37.413 $\pm$ 11.390 χ^2 /NDF:30.5/24

Right Out: 50.896 $\pm$ 37.470 χ^2 /NDF: 3.8/7

Left In: -18.210 $\pm$ 11.788 χ^2 /NDF:23.0/22

Left: -28.141 $\pm$ 8.191 χ^2 /NDF: 54.8/47

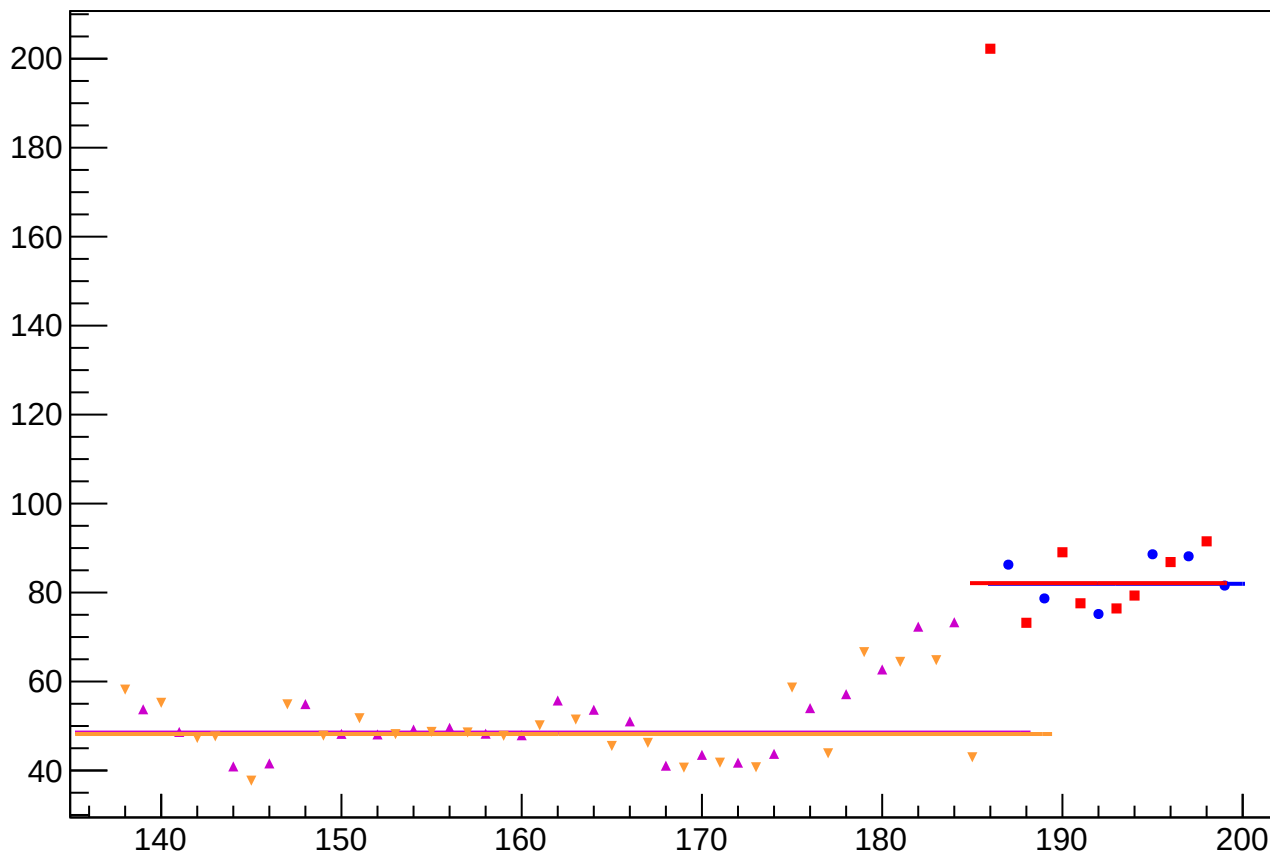
Right: 38.937 $\pm$ 27.855 χ^2 /NDF: 4.7/13

In: -15.067 $\pm$ 11.342 χ^2 /NDF:24.6/28

Out: -29.943 $\pm$ 10.897 χ^2 /NDF:39.3/32

All: -22.803 $\pm$ 7.858 χ^2 /NDF: 64.9/61

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 81.965 $\pm$ 0.029 χ^2 /NDF: 33439.4/5

Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24

Right Out: 82.115 $\pm$ 0.026 χ^2 /NDF: 317804.6/7

Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47

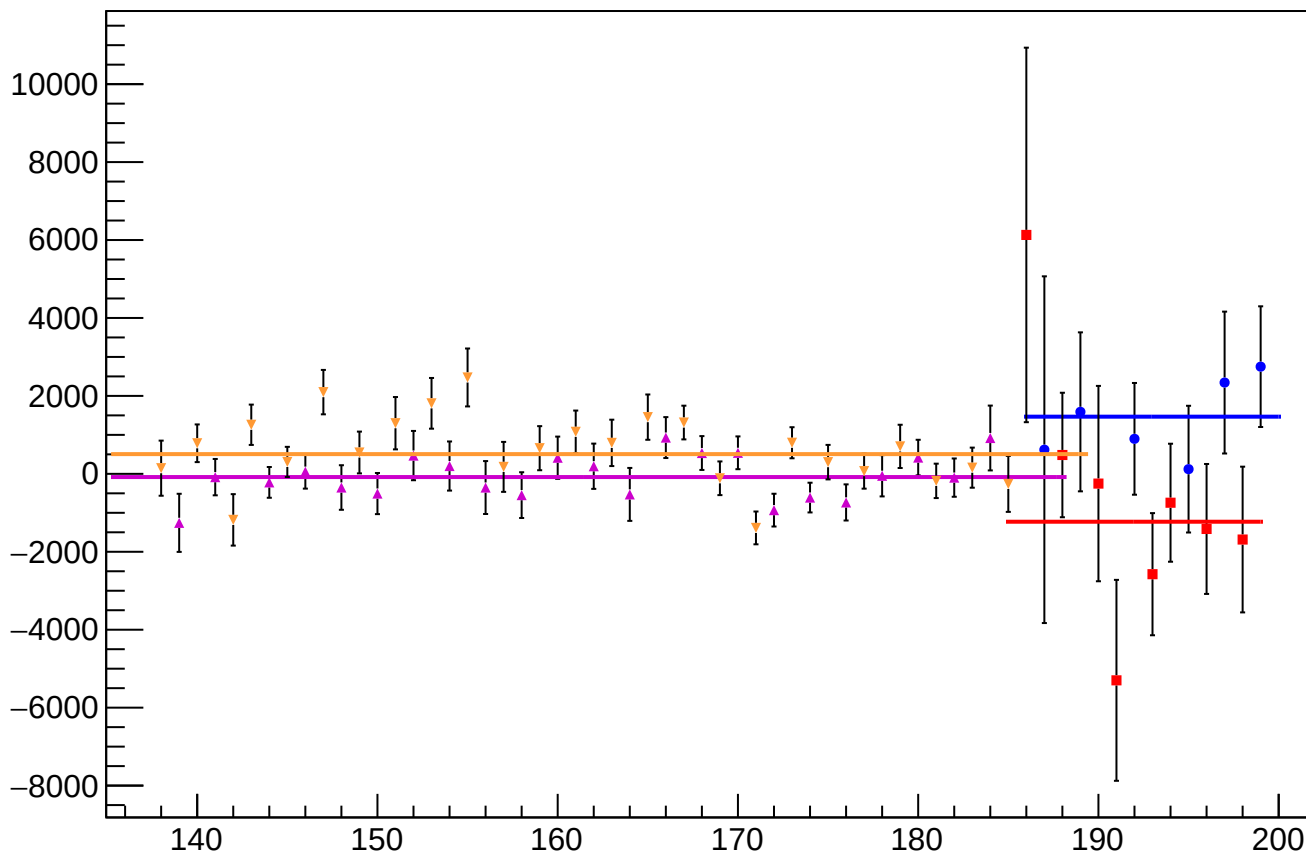
Right: 82.048 $\pm$ 0.020 χ^2 /NDF: 351258.4/13

In: 51.007 $\pm$ 0.008 χ^2 /NDF: 1902517.5/28

Out: 51.068 $\pm$ 0.008 χ^2 /NDF: 2567981.9/32

All: 51.039 $\pm$ 0.006 χ^2 /NDF: 4470529.8/61

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: -1228.725+/-669.073 χ^2/NDF : 7.1/7

Left In: -82.421+/-105.935 χ^2/NDF : 25.3/22

Left: 218.827+/-74.020 χ^2/NDF : 106.9/47

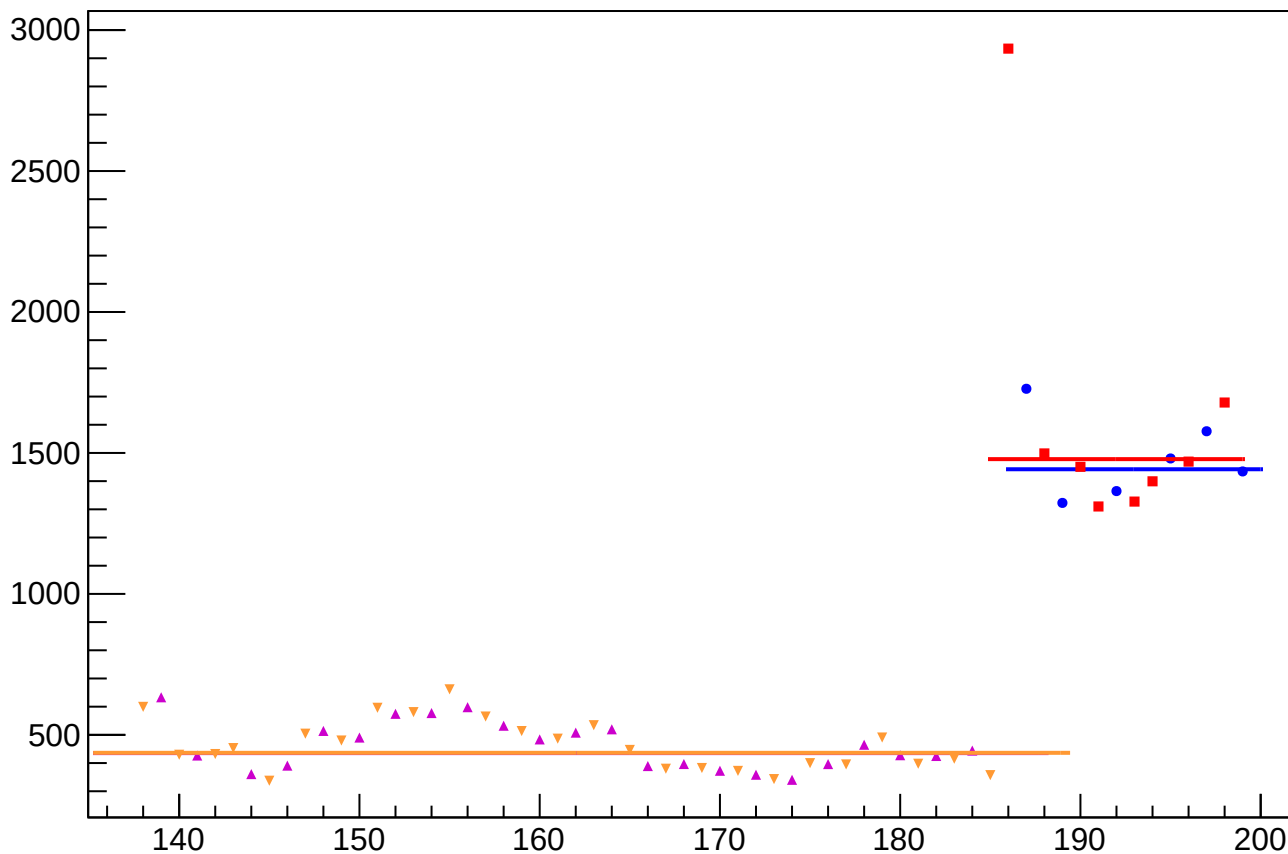
Right: 1.268+/-493.370 χ^2/NDF : 16.3/13

In: -50.498+/-104.838 χ^2/NDF : 31.6/28

Out: 465.684+/-102.252 χ^2/NDF : 79.3/32

All: 214.038+/-73.200 χ^2/NDF : 123.3/61

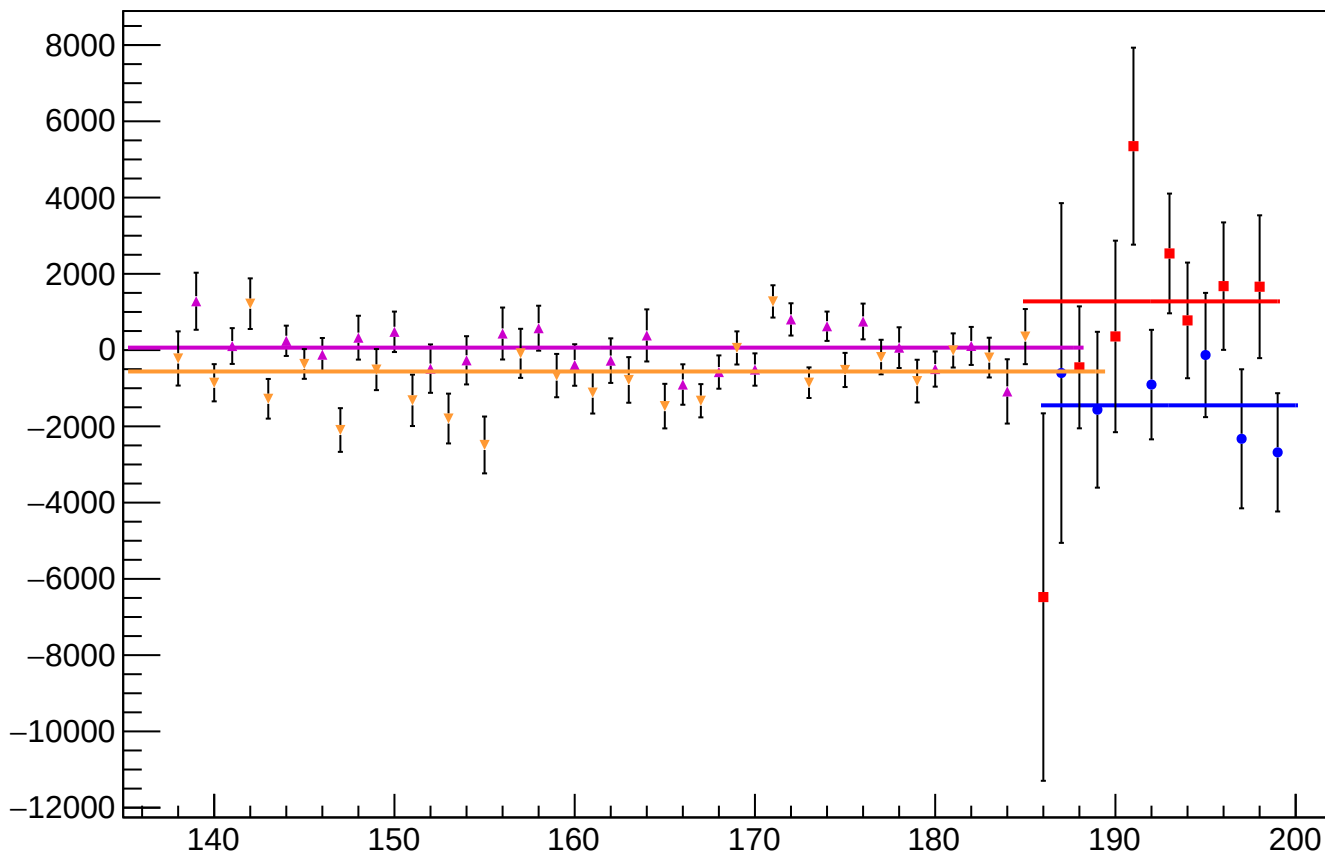
asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



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: 1478.079+/-0.473 χ^2/NDF : 239663.1/7
 Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47
 Right: 1461.691+/-0.349 χ^2/NDF : 275341.3/13
 In: 456.018+/-0.074 χ^2/NDF : 4783028.4/28
 Out: 460.633+/-0.072 χ^2/NDF : 6154542.5/32
 All: 458.383+/-0.052 χ^2/NDF : 10939556.9/63

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Left: -255.457 $\pm$ 74.554 χ^2/NDF : 104.5/47

Right: 33.517 $\pm$ 494.234 χ^2/NDF : 16.5/13

In: 33.076 $\pm$ 105.591 χ^2/NDF : 31.1/28

Out: -517.302 $\pm$ 102.970 χ^2/NDF : 76.3/32

All: -249.027 $\pm$ 73.720 χ^2/NDF : 121.3/61

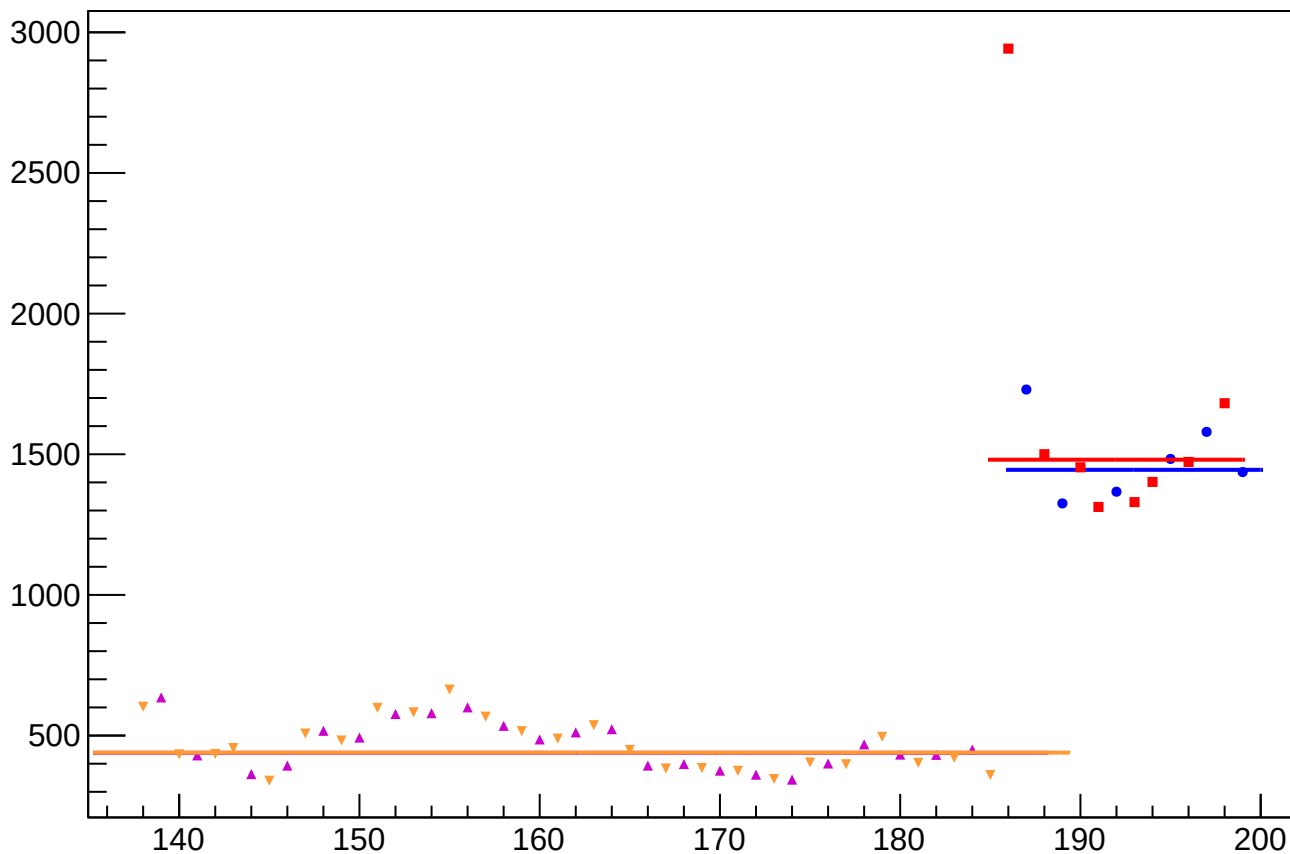
Right In: -1448.821 $\pm$ 731.679 χ^2/NDF : 1.7/5

Left Out: -560.684 $\pm$ 104.207 χ^2/NDF : 61.8/24

Right Out: 1277.433 $\pm$ 670.258 χ^2/NDF : 7.2/7

Left In: 64.594 $\pm$ 106.708 χ^2/NDF : 25.2/22

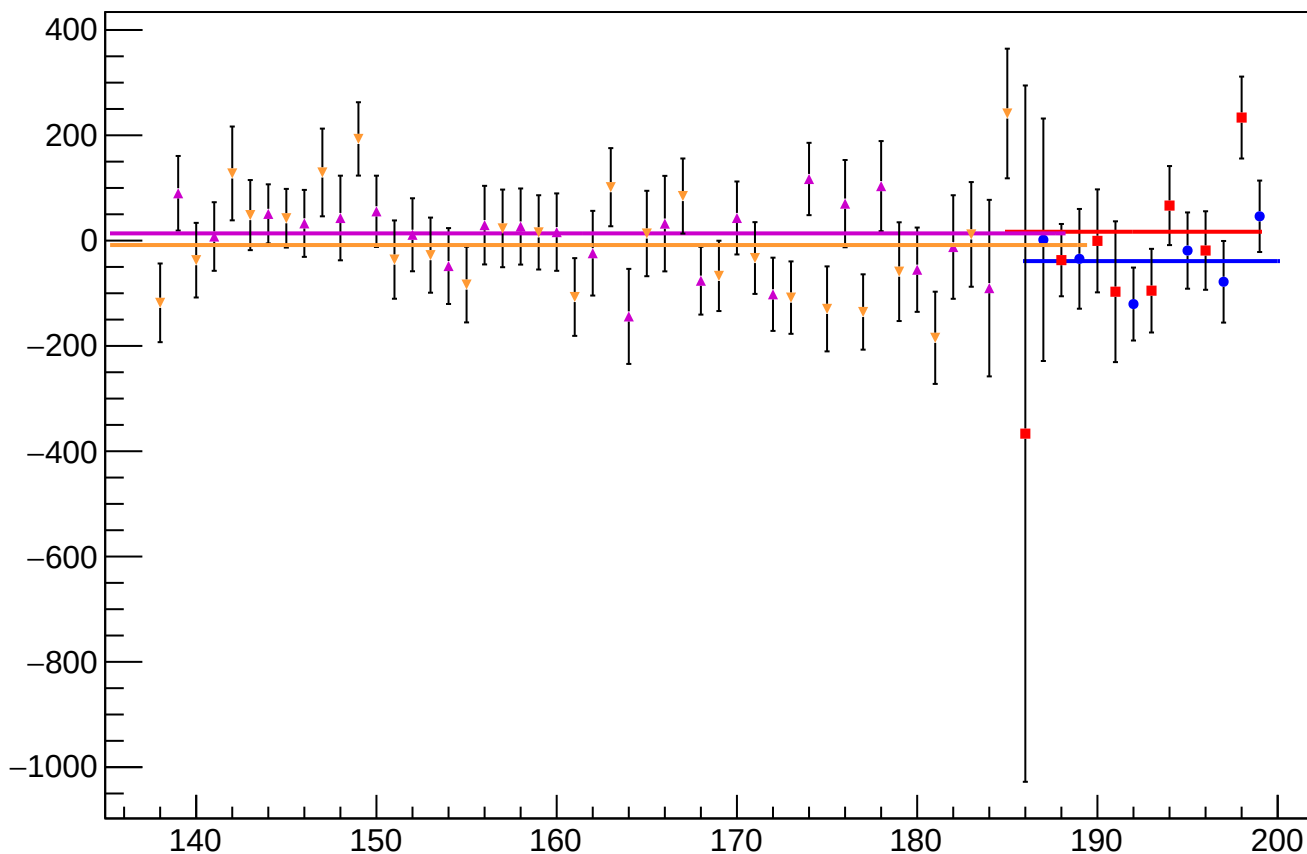
asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1444.655 $\pm$ 0.517 χ^2 /NDF: 33057.4/5
 Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF:1163352.8/24
 Right Out: 1480.693 $\pm$ 0.474 χ^2 /NDF: 239832.6/7
 Left In: 438.548 $\pm$ 0.075 χ^2 /NDF:1013071.4/22

Left: 439.049 $\pm$ 0.053 χ^2 /NDF: 2176510.4/47
 Right: 1464.250 $\pm$ 0.349 χ^2 /NDF: 275528.2/13
 In: 459.501 $\pm$ 0.075 χ^2 /NDF:4748988.0/28
 Out: 464.100 $\pm$ 0.073 χ^2 /NDF:6115269.0/32
 All: 461.858 $\pm$ 0.052 χ^2 /NDF: 10866201.6/63

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: 16.840 ± 30.773 χ^2/NDF : 12.1/7

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

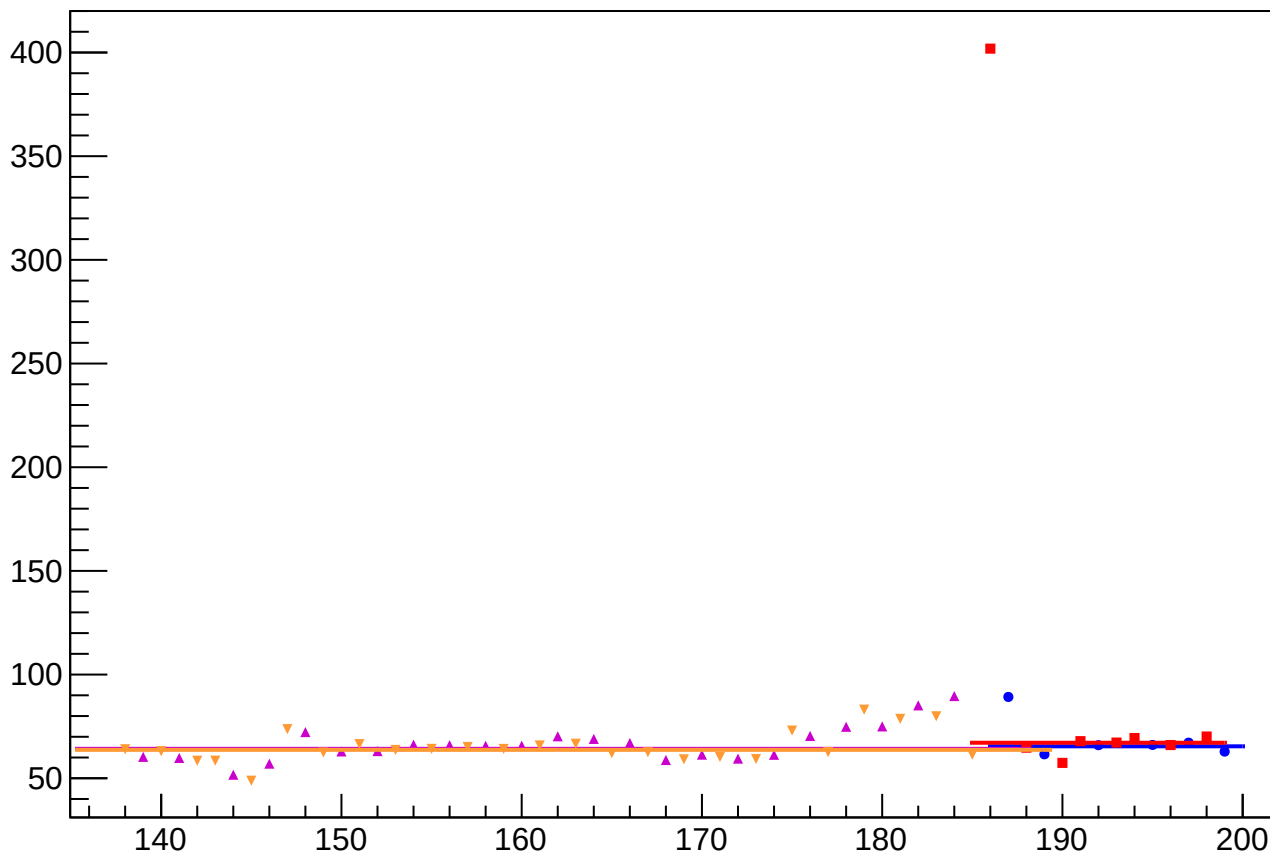
Right: -9.016 ± 22.535 χ^2/NDF : 17.0/13

In: 4.275 ± 14.020 χ^2/NDF : 21.7/28

Out: -3.601 ± 13.436 χ^2/NDF : 54.3/32

All: 0.169 ± 9.701 χ^2/NDF : 76.1/61

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: 67.126 $\pm$ 0.022 χ^2 /NDF: 540020.5/7

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

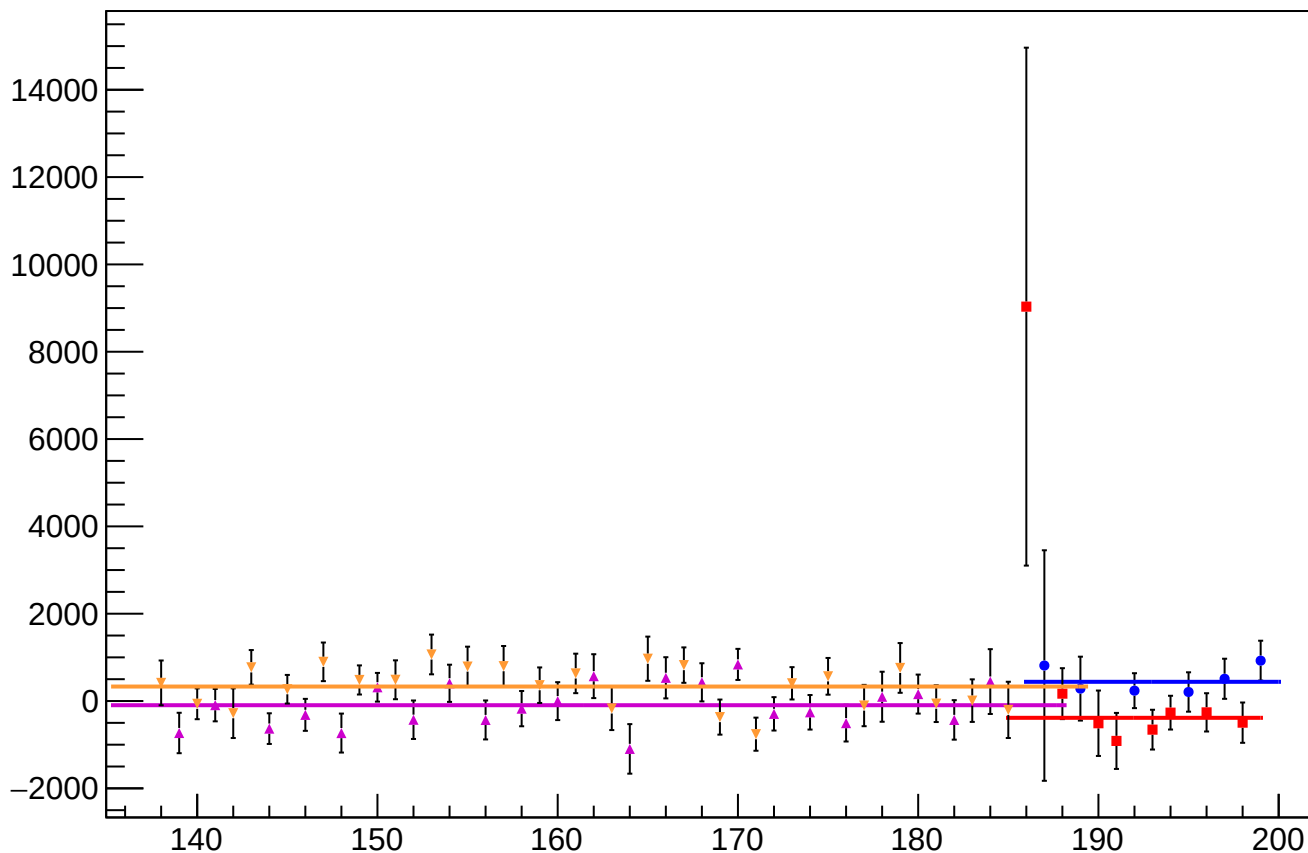
Right: 66.326 $\pm$ 0.016 χ^2 /NDF: 571770.8/13

In: 64.407 $\pm$ 0.010 χ^2 /NDF: 460707.7/28

Out: 64.350 $\pm$ 0.010 χ^2 /NDF: 1008573.3/32

All: 64.377 $\pm$ 0.007 χ^2 /NDF: 1469298.1/61

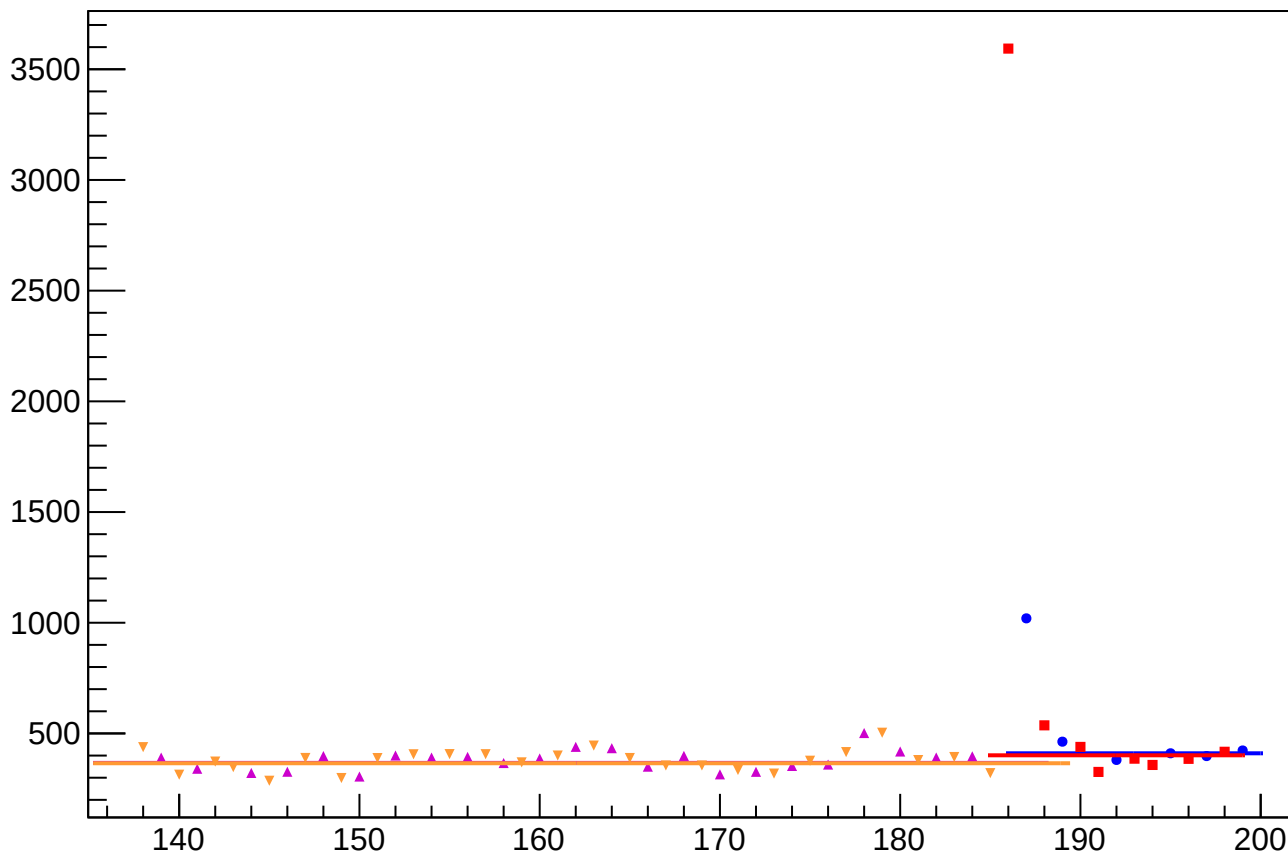
asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



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: -384.543 $\pm$ 187.038 χ^2 /NDF: 4.7/7
 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: -19.365 $\pm$ 139.613 χ^2 /NDF: 15.1/13
 In: -14.697 $\pm$ 81.664 χ^2 /NDF:36.0/28
 Out: 206.563 $\pm$ 78.189 χ^2 /NDF:46.7/32
 All: 100.740 $\pm$ 56.477 χ^2 /NDF: 86.5/61

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 410.277 $\pm$ 0.148 χ^2 /NDF: 131203.1/5

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 401.228 $\pm$ 0.132 χ^2 /NDF: 752236.6/7

Left In: 366.925 $\pm$ 0.063 χ^2 /NDF: 478082.1/22

Left: 366.117 $\pm$ 0.044 χ^2 /NDF: 1096858.5/47

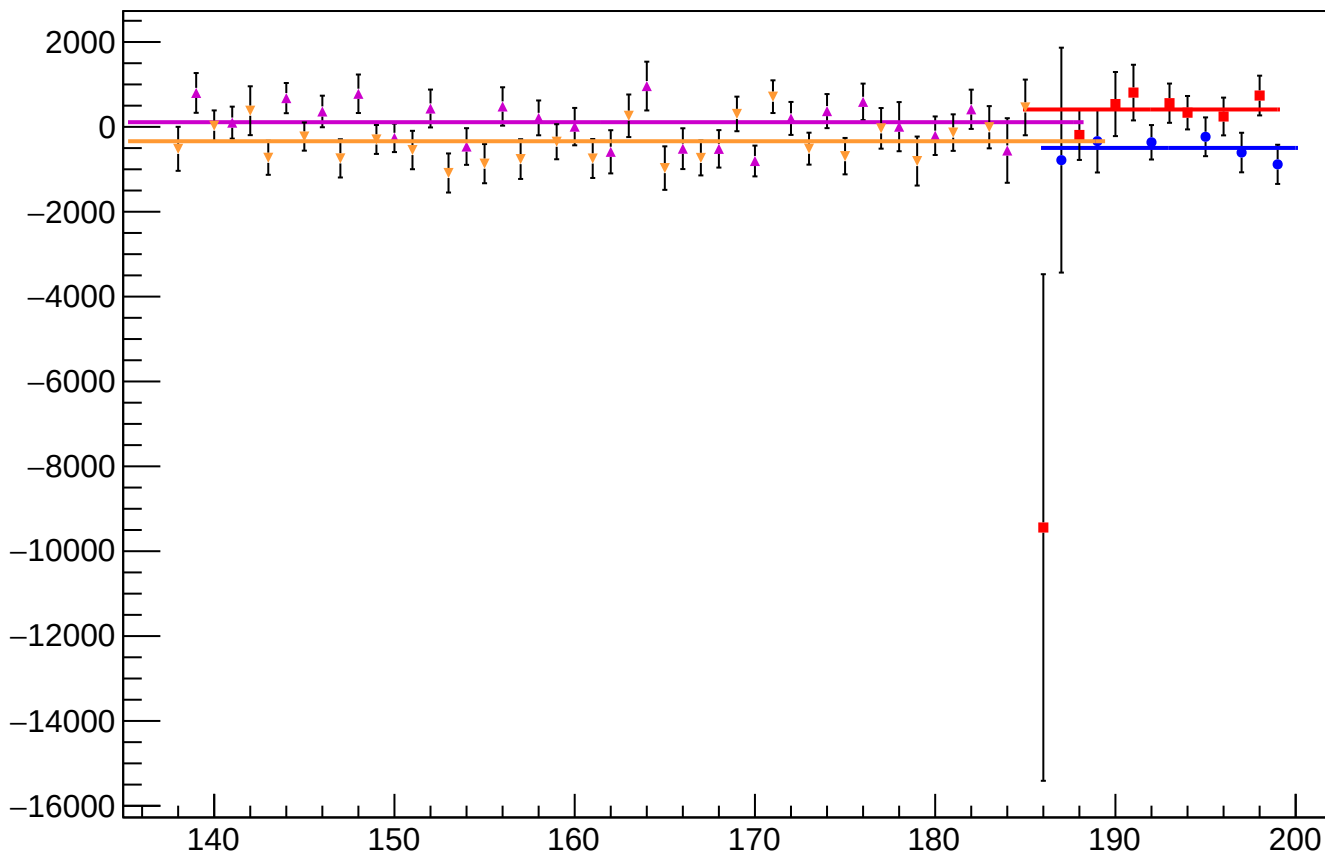
Right: 405.235 $\pm$ 0.099 χ^2 /NDF: 885512.7/13

In: 373.493 $\pm$ 0.058 χ^2 /NDF: 681741.9/28

Out: 371.624 $\pm$ 0.055 χ^2 /NDF: 1431401.9/32

All: 372.518 $\pm$ 0.040 χ^2 /NDF: 2113690.2/61

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -496.194 ± 212.565 $\chi^2/\text{NDF}: 1.3/5$

Left Out: -338.528 ± 87.450 $\chi^2/\text{NDF}: 28.2/24$

Right Out: 409.954 ± 189.900 $\chi^2/\text{NDF}: 4.9/7$

Left In: 110.341 ± 90.084 $\chi^2/\text{NDF}: 29.2/22$

Left: -120.751 ± 62.747 $\chi^2/\text{NDF}: 70.2/47$

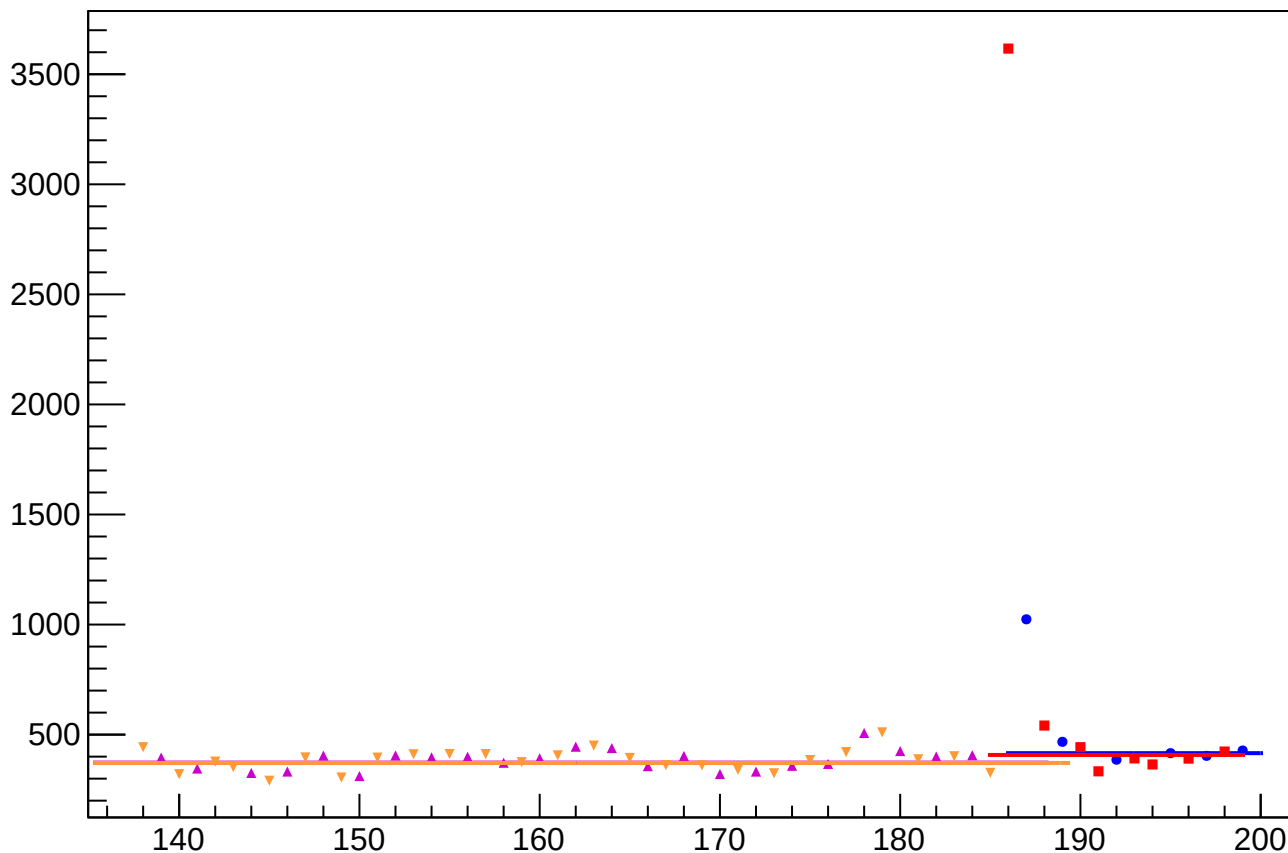
Right: 7.750 ± 141.617 $\chi^2/\text{NDF}: 16.3/13$

In: 17.992 ± 82.943 $\chi^2/\text{NDF}: 37.4/28$

Out: -207.571 ± 79.432 $\chi^2/\text{NDF}: 46.0/32$

All: -99.664 ± 57.368 $\chi^2/\text{NDF}: 87.2/61$

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 415.808 $\pm$ 0.150 χ^2 /NDF: 128408.1/5

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 407.649 $\pm$ 0.134 χ^2 /NDF: 742675.0/7

Left In: 372.938 $\pm$ 0.064 χ^2 /NDF: 467340.9/22

Left: 372.123 $\pm$ 0.044 χ^2 /NDF: 1071729.1/47

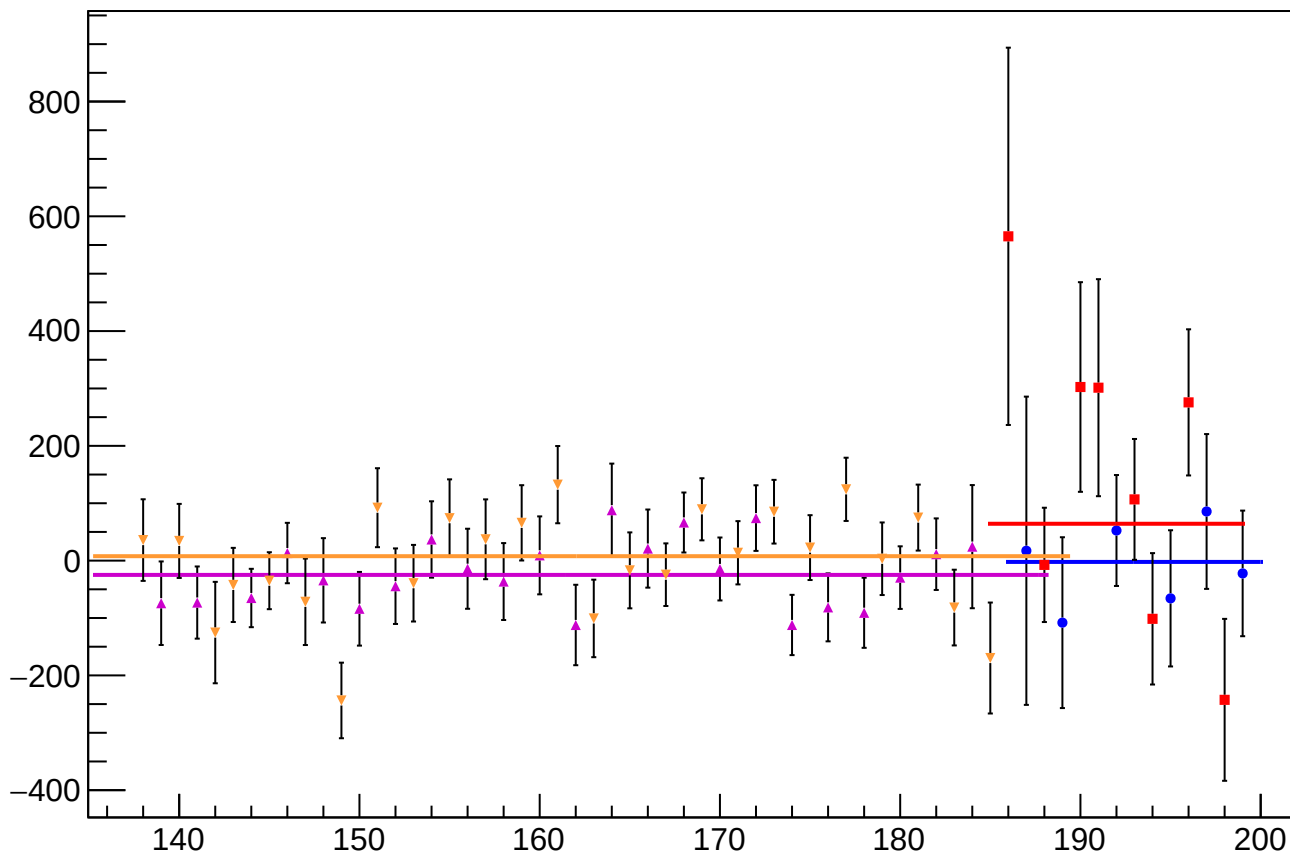
Right: 411.271 $\pm$ 0.100 χ^2 /NDF: 872721.8/13

In: 379.465 $\pm$ 0.059 χ^2 /NDF: 664714.2/28

Out: 377.706 $\pm$ 0.056 χ^2 /NDF: 1407016.9/32

All: 378.547 $\pm$ 0.041 χ^2 /NDF: 2072200.4/61

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: 64.242 ± 47.327 $\chi^2/\text{NDF}: 15.9/7$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

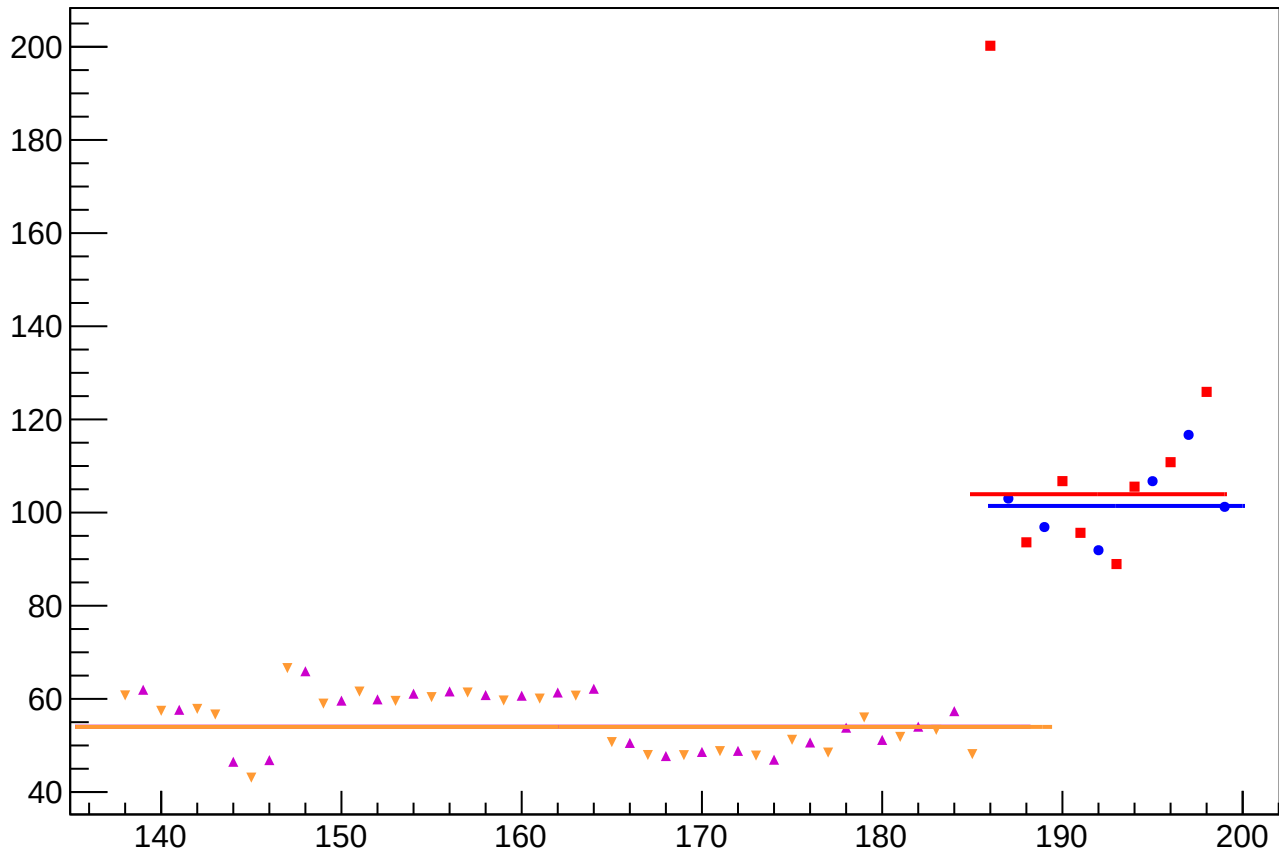
Right: 33.864 ± 34.880 $\chi^2/\text{NDF}: 18.3/13$

In: -23.531 ± 12.632 $\chi^2/\text{NDF}: 21.5/28$

Out: 11.495 ± 12.226 $\chi^2/\text{NDF}: 62.6/32$

All: -5.446 ± 8.785 $\chi^2/\text{NDF}: 88.1/61$

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: 103.944 $\pm$ 0.033 χ^2 /NDF: 292685.5/7

Left In: 54.028 $\pm$ 0.009 χ^2 /NDF: 443819.5/22

Left: 54.005 $\pm$ 0.006 χ^2 /NDF: 902803.3/47

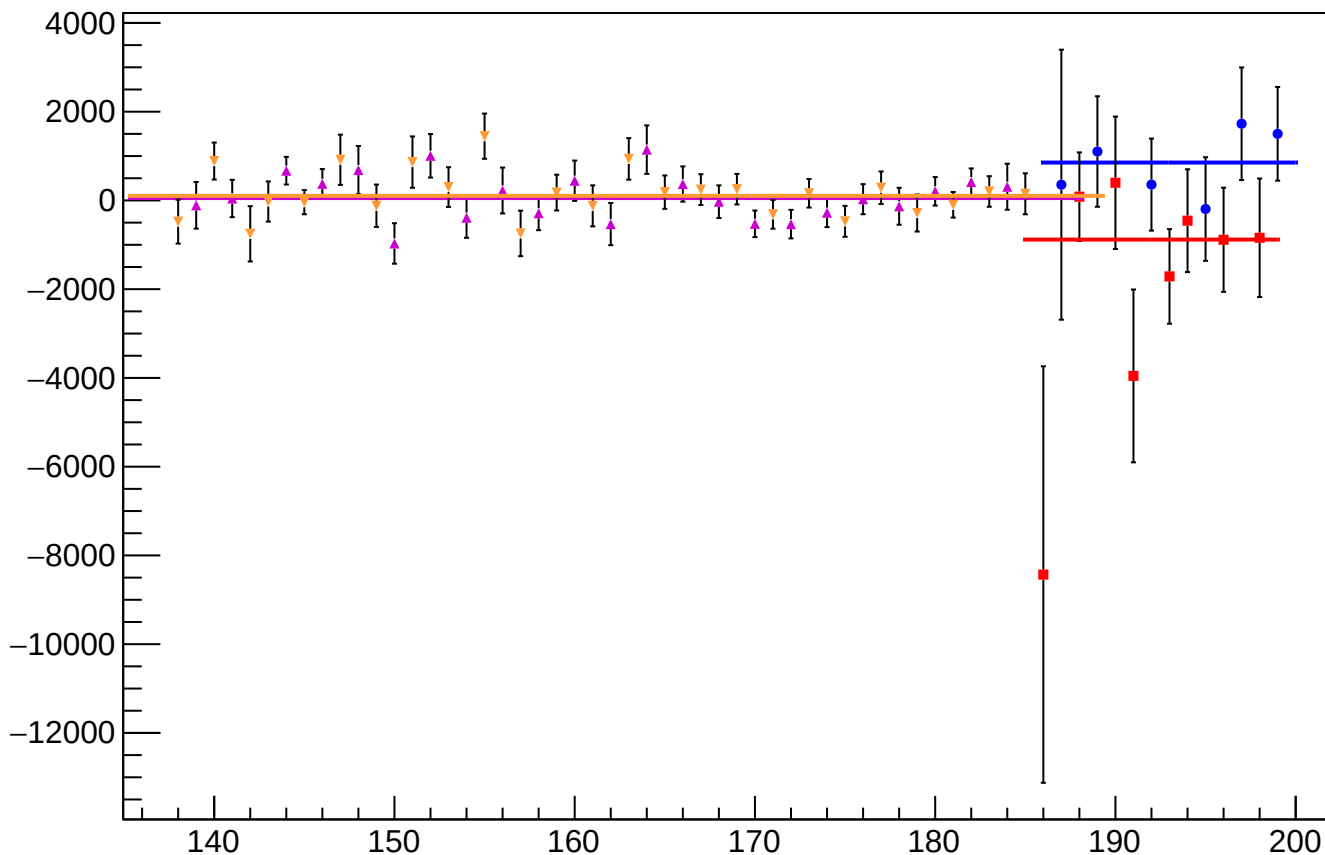
Right: 102.794 $\pm$ 0.025 χ^2 /NDF: 346143.3/13

In: 56.868 $\pm$ 0.009 χ^2 /NDF: 2080651.1/28

Out: 57.318 $\pm$ 0.009 χ^2 /NDF: 2831695.1/32

All: 57.100 $\pm$ 0.006 χ^2 /NDF: 4913657.7/61

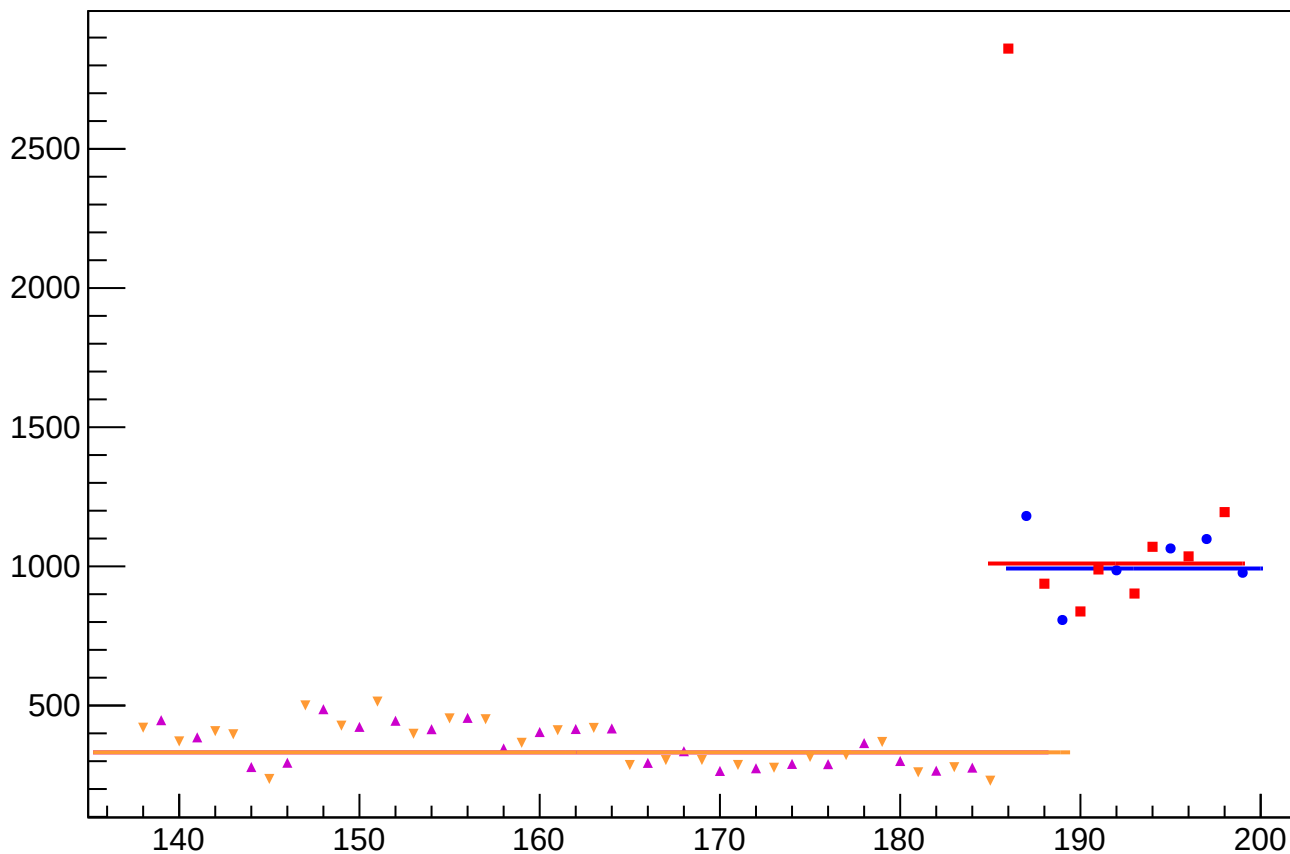
asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



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: -882.144 $\pm$ 462.522 χ^2 /NDF: 7.5/7
 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: -88.828 $\pm$ 340.812 χ^2 /NDF: 15.9/13
 In: 73.727 $\pm$ 80.168 χ^2 /NDF:38.5/28
 Out: 75.583 $\pm$ 78.202 χ^2 /NDF:42.9/32
 All: 74.678 $\pm$ 55.979 χ^2 /NDF: 81.4/61

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 992.301 $\pm$ 0.356 χ^2 /NDF: 73879.8/5

Left Out: 331.770 $\pm$ 0.056 χ^2 /NDF: 1711721.9/24

Right Out: 1010.221 $\pm$ 0.327 χ^2 /NDF: 413433.7/7

Left In: 331.666 $\pm$ 0.057 χ^2 /NDF: 1303192.2/22

Left: 331.719 $\pm$ 0.040 χ^2 /NDF: 3014915.7/47

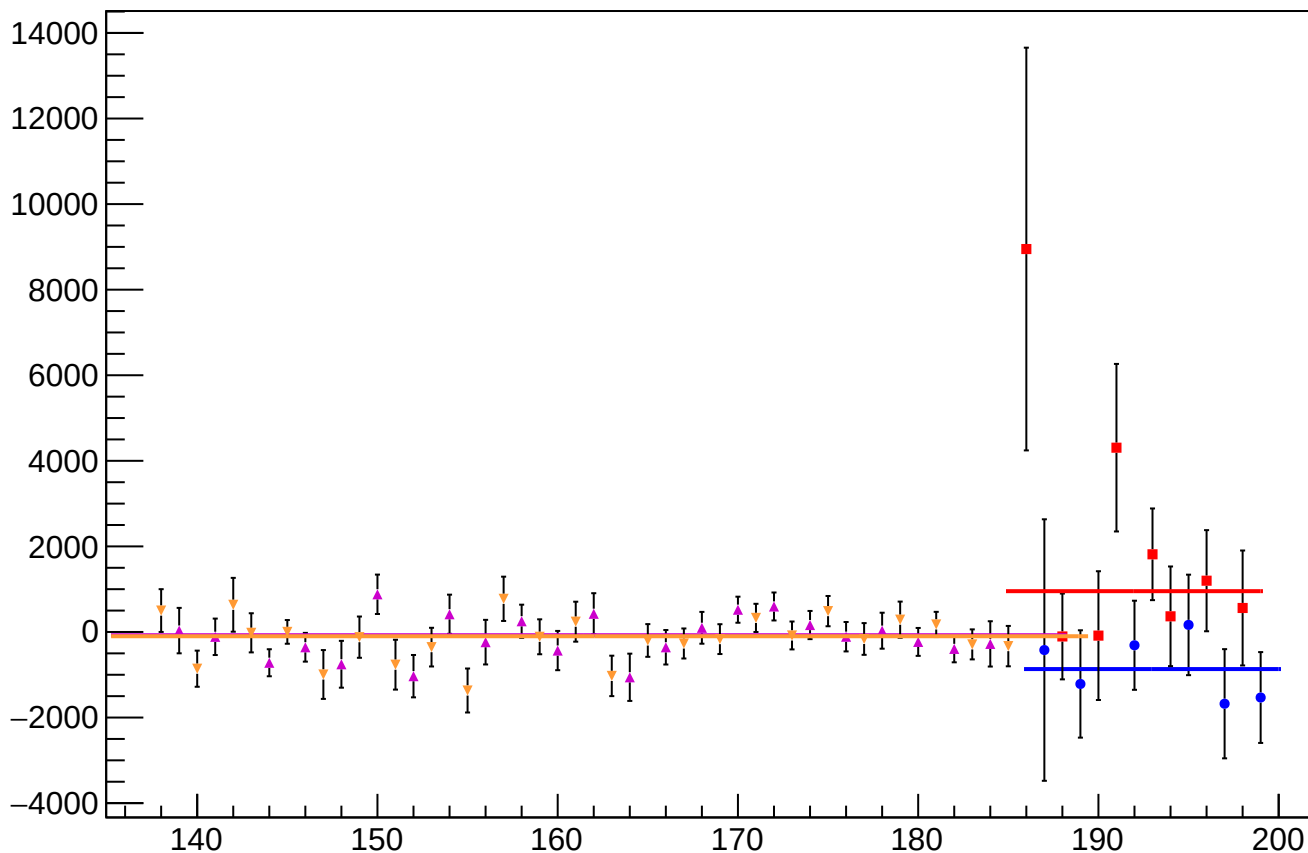
Right: 1002.031 $\pm$ 0.241 χ^2 /NDF: 488685.6/13

In: 348.372 $\pm$ 0.057 χ^2 /NDF: 4724854.9/28

Out: 351.165 $\pm$ 0.055 χ^2 /NDF: 6305442.2/32

All: 349.803 $\pm$ 0.040 χ^2 /NDF: 11031541.0/63

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -866.887+/-506.928 χ^2/NDF : 2.0/5

Left Out: -99.785+/-80.428 χ^2/NDF :30.7/24

Right Out: 953.642+/-465.216 χ^2/NDF : 8.4/7

Left In: -75.579+/-82.319 χ^2/NDF :32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

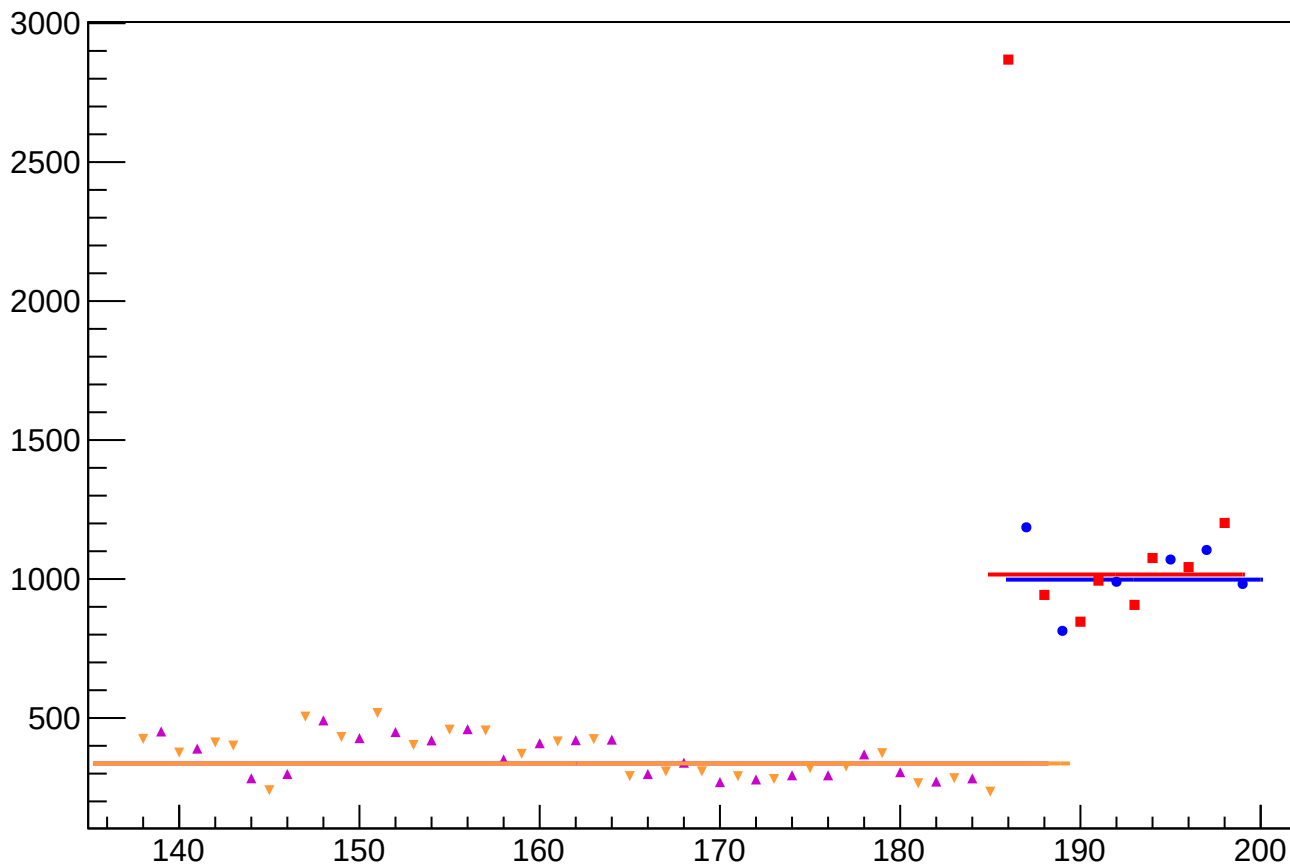
Right: 121.347+/-342.757 χ^2/NDF : 17.4/13

In: -95.910+/-81.254 χ^2/NDF :36.4/28

Out: -69.213+/-79.252 χ^2/NDF :44.1/32

All: -82.229+/-56.734 χ^2/NDF : 80.5/61

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 997.886 ± 0.358 $\chi^2/\text{NDF}: 72882.3/5$

Left Out: 336.557 ± 0.057 $\chi^2/\text{NDF}: 1665919.4/24$

Right Out: 1016.308 ± 0.329 $\chi^2/\text{NDF}: 411476.6/7$

Left In: 336.439 ± 0.058 $\chi^2/\text{NDF}: 1269066.3/22$

Left: 336.500 ± 0.041 $\chi^2/\text{NDF}: 2934987.9/47$

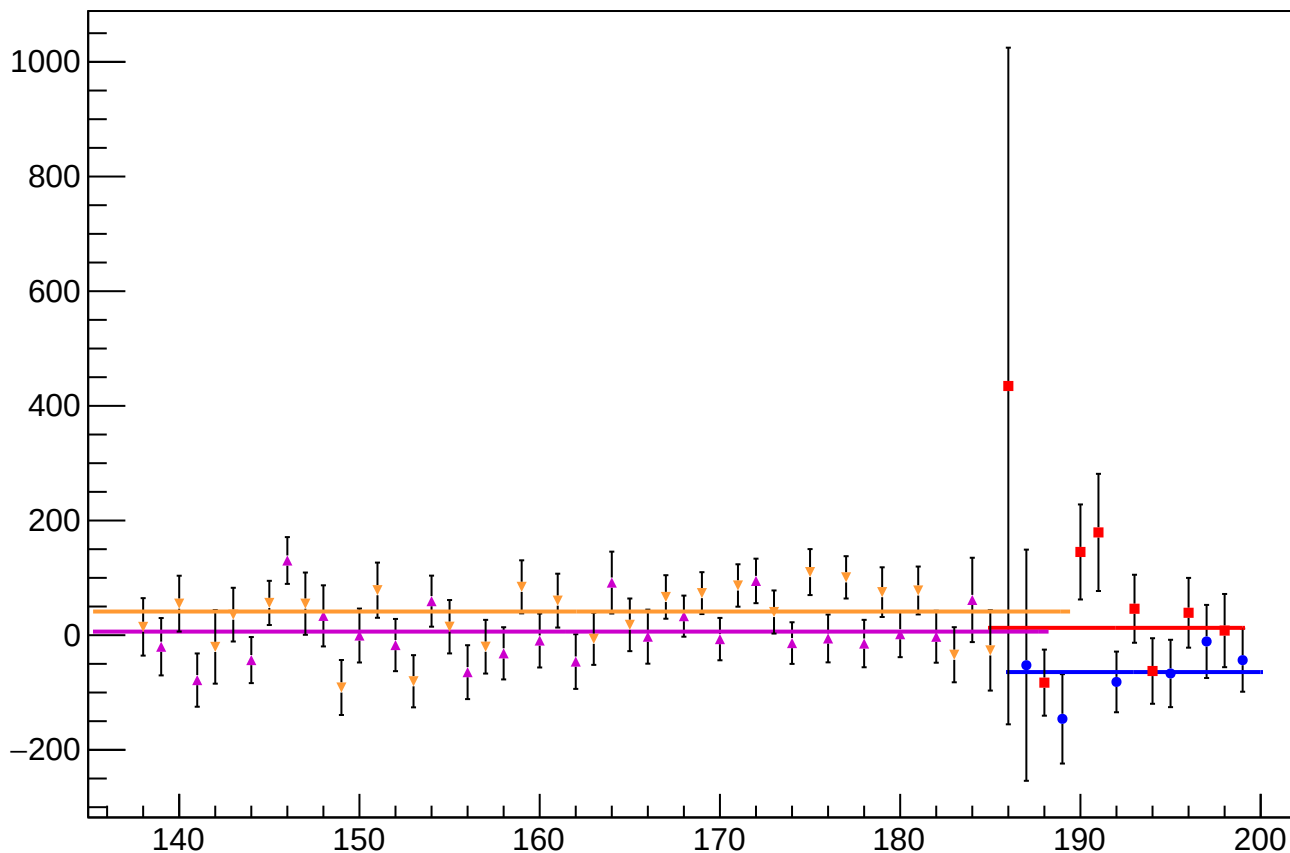
Right: 1007.886 ± 0.242 $\chi^2/\text{NDF}: 485792.7/13$

In: 353.433 ± 0.057 $\chi^2/\text{NDF}: 4659541.9/28$

Out: 356.285 ± 0.056 $\chi^2/\text{NDF}: 6223392.9/32$

All: 354.895 ± 0.040 $\chi^2/\text{NDF}: 10884196.7/63$

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: 12.799 ± 24.610 $\chi^2/\text{NDF}: 10.7/7$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

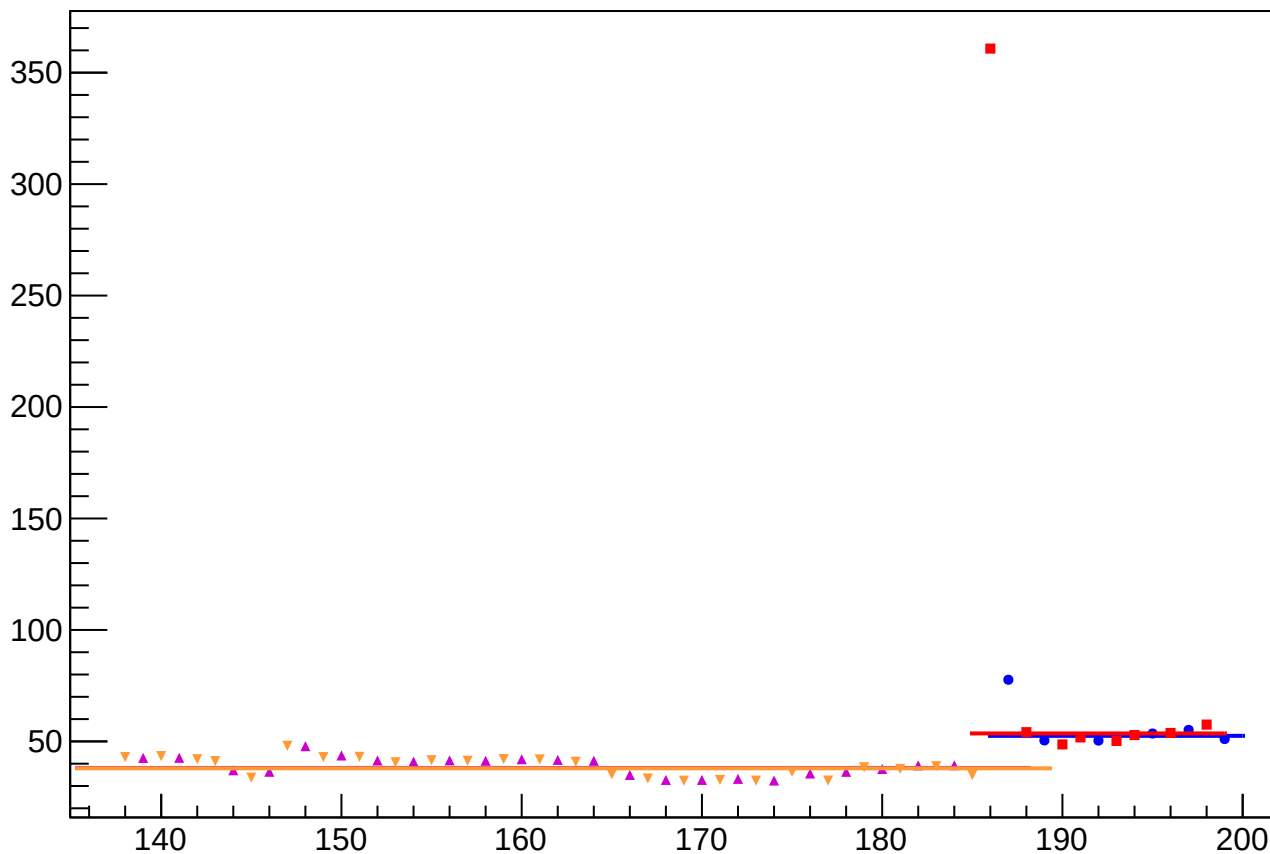
Right: -22.738 ± 18.071 $\chi^2/\text{NDF}: 17.3/13$

In: -1.239 ± 8.674 $\chi^2/\text{NDF}: 38.6/28$

Out: 37.996 ± 8.361 $\chi^2/\text{NDF}: 46.3/32$

All: 19.100 ± 6.020 $\chi^2/\text{NDF}: 95.5/61$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 52.499+/-0.019 χ^2/NDF : 41296.3/5

Left Out: 37.925+/-0.006 χ^2/NDF : 487085.3/24

Right Out: 53.584+/-0.017 χ^2/NDF : 564420.3/7

Left In: 38.087+/-0.006 χ^2/NDF : 396334.5/22

Left: 38.004+/-0.005 χ^2/NDF : 883742.3/47

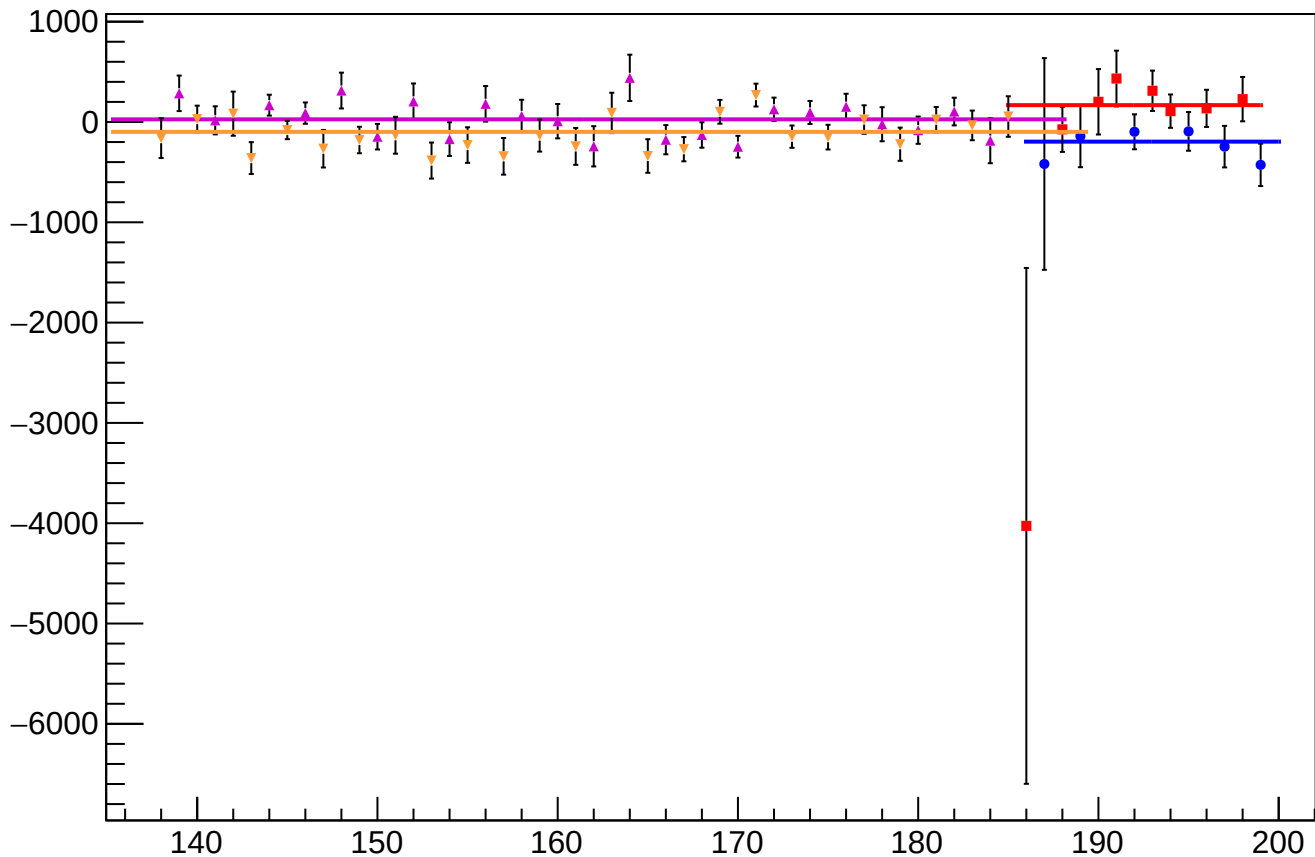
Right: 53.084+/-0.013 χ^2/NDF : 607507.8/13

In: 39.617+/-0.006 χ^2/NDF : 961590.7/28

Out: 39.732+/-0.006 χ^2/NDF : 1767711.0/32

All: 39.677+/-0.004 χ^2/NDF : 2729483.0/61

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -195.886 ± 92.528 $\chi^2/\text{NDF}: 1.9/5$

Left Out: -98.741 ± 29.095 $\chi^2/\text{NDF}: 32.7/24$

Right Out: 167.827 ± 80.856 $\chi^2/\text{NDF}: 5.5/7$

Left In: 26.223 ± 29.676 $\chi^2/\text{NDF}: 30.7/22$

Left: -37.493 ± 20.776 $\chi^2/\text{NDF}: 72.5/47$

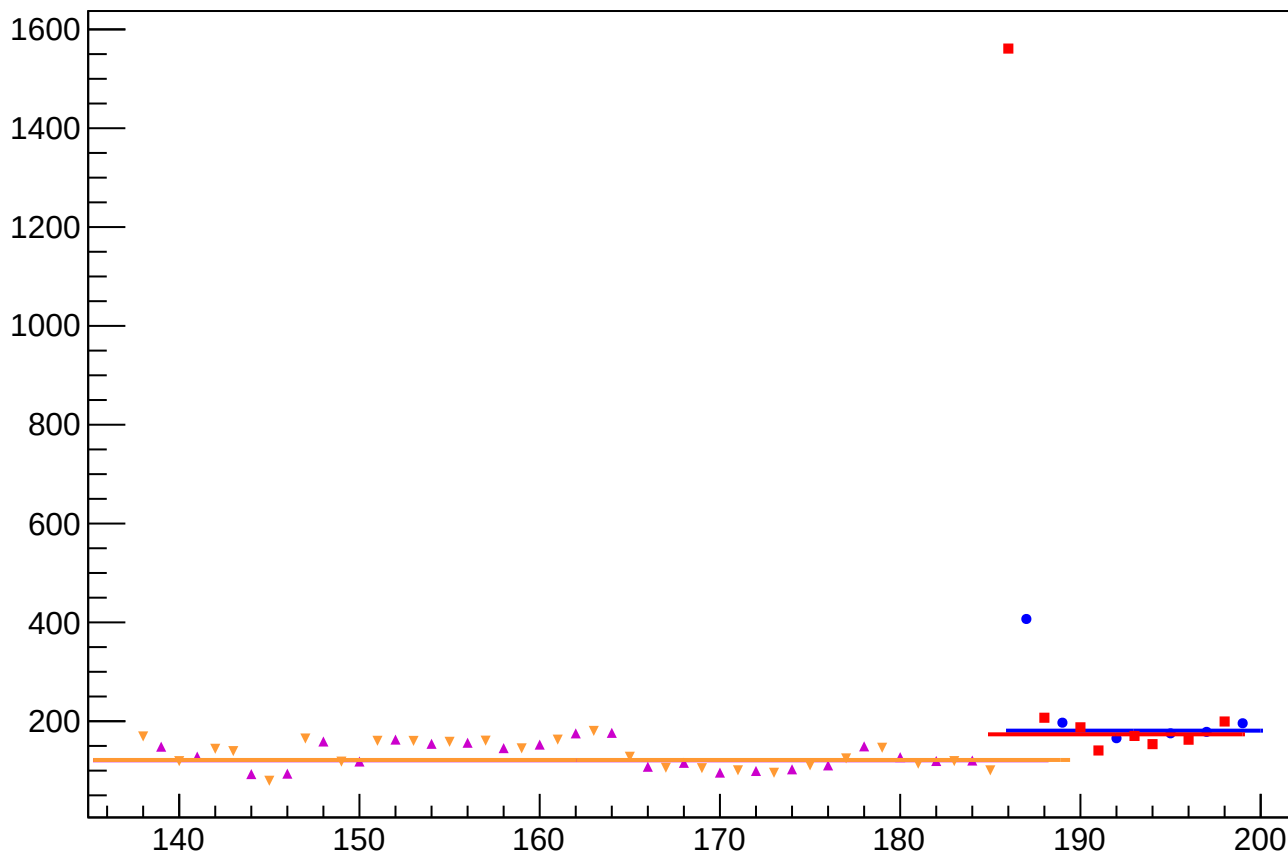
Right: 10.344 ± 60.885 $\chi^2/\text{NDF}: 16.2/13$

In: 5.507 ± 28.258 $\chi^2/\text{NDF}: 37.8/28$

Out: -68.182 ± 27.377 $\chi^2/\text{NDF}: 47.9/32$

All: -32.504 ± 19.662 $\chi^2/\text{NDF}: 89.2/61$

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: 173.468+/-0.057 χ^2/NDF : 722356.8/7

Left In: 120.927+/-0.021 χ^2/NDF :1382861.4/22

Left: 121.266+/-0.015 χ^2/NDF : 3094797.5/47

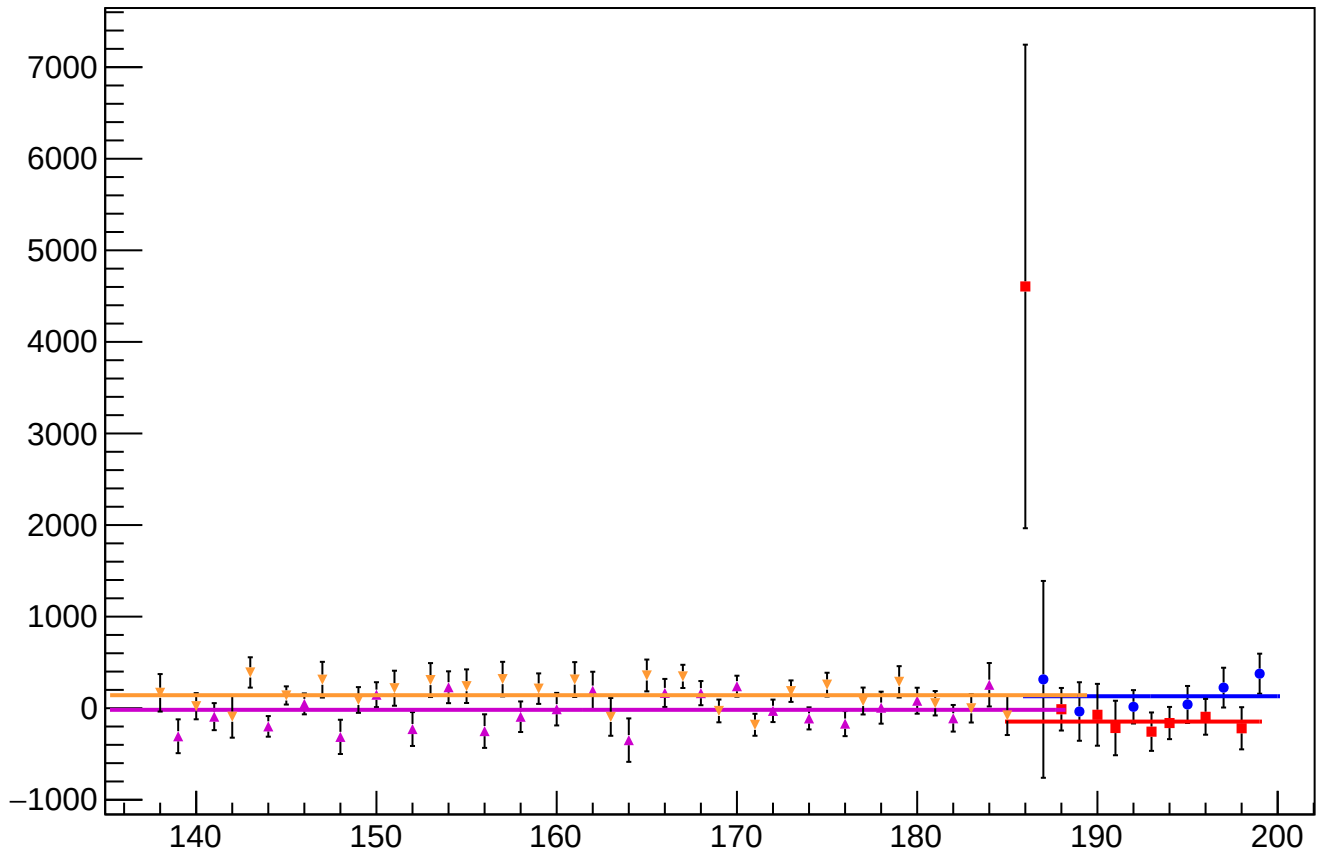
Right: 176.690+/-0.043 χ^2/NDF : 854213.4/13

In: 126.521+/-0.020 χ^2/NDF :2269461.8/28

Out: 127.539+/-0.019 χ^2/NDF :3162648.4/32

All: 127.046+/-0.014 χ^2/NDF : 5433448.6/61

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 130.643+/-96.498 χ^2/NDF : 2.4/5

Left Out: 142.014+/-30.574 χ^2/NDF : 26.9/24

Right Out: -146.049+/-84.866 χ^2/NDF : 4.1/7

Left In: -17.679+/-31.209 χ^2/NDF : 30.1/22

Left: 63.807+/-21.840 χ^2/NDF : 70.4/47

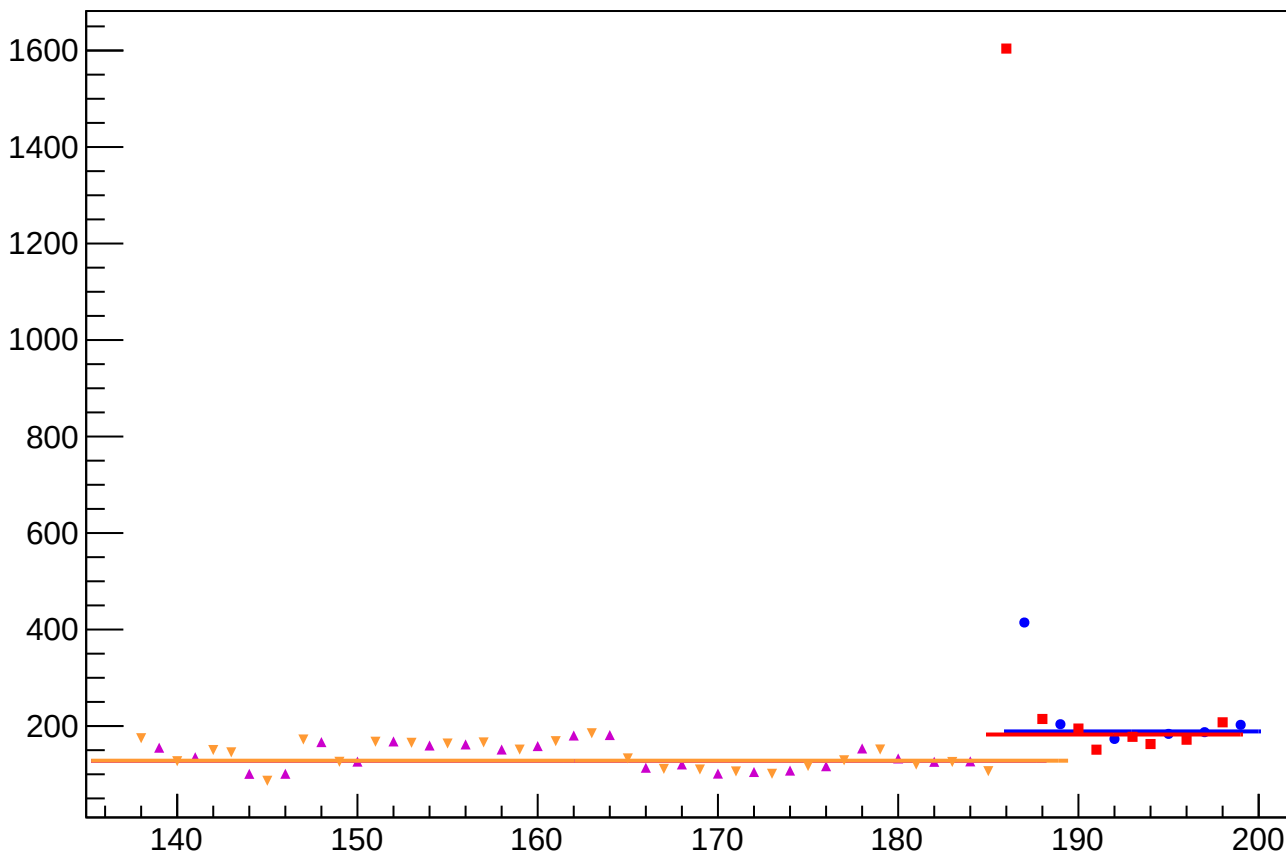
Right: -25.377+/-63.727 χ^2/NDF : 11.1/13

In: -3.635+/-29.694 χ^2/NDF : 34.6/28

Out: 108.921+/-28.765 χ^2/NDF : 41.2/32

All: 54.433+/-20.660 χ^2/NDF : 83.3/61

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 188.857+/-0.068 χ^2/NDF : 116329.3/5

Left Out: 128.175+/-0.022 χ^2/NDF : 1532922.0/24

Right Out: 182.452+/-0.060 χ^2/NDF : 699668.2/7

Left In: 127.544+/-0.022 χ^2/NDF : 1235705.3/22

Left: 127.866+/-0.015 χ^2/NDF : 2769045.1/47

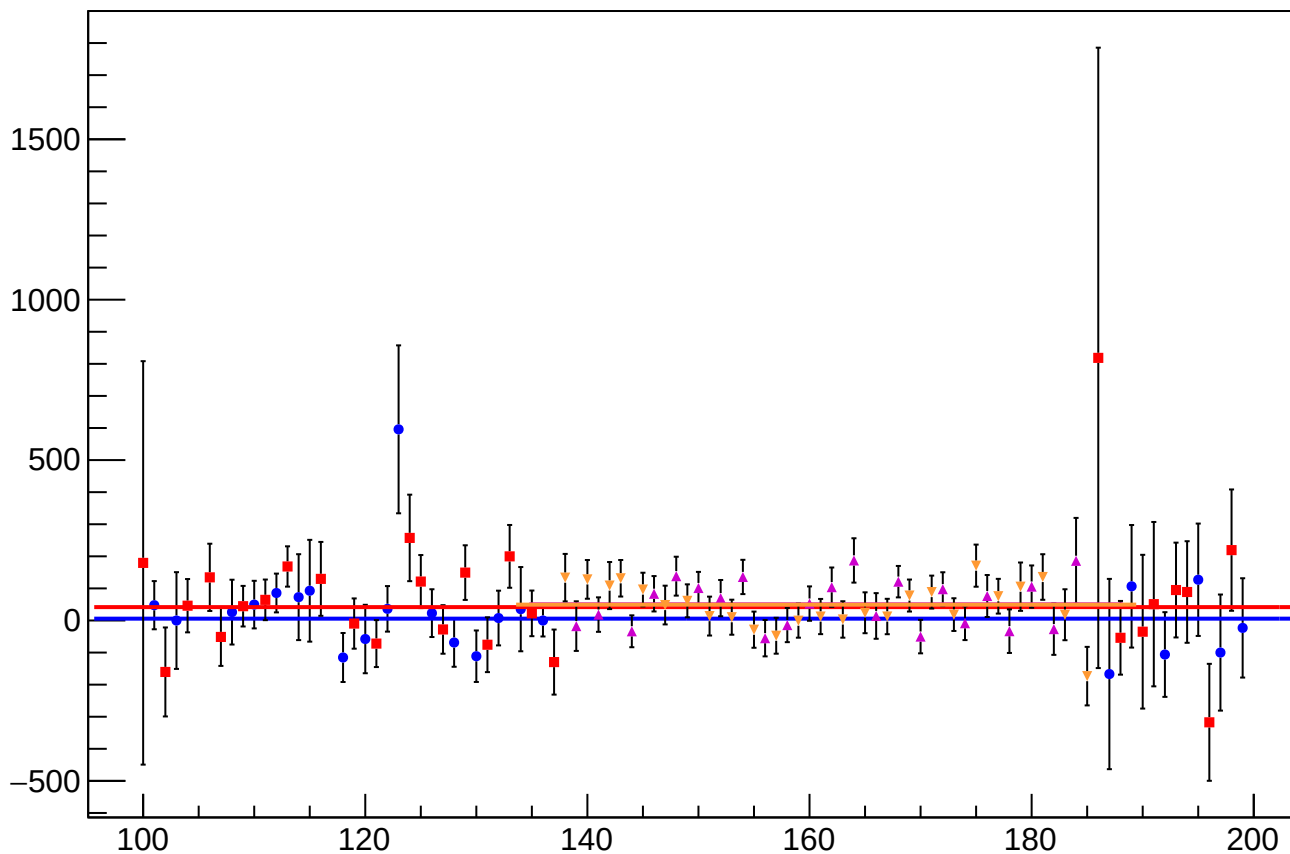
Right: 185.246+/-0.045 χ^2/NDF : 820966.0/13

In: 133.350+/-0.021 χ^2/NDF : 2083008.2/28

Out: 134.411+/-0.020 χ^2/NDF : 2956688.9/32

All: 133.897+/-0.015 χ^2/NDF : 5041014.3/61

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 5.695 $\pm$ 19.406 χ^2 /NDF: 16.5/22

Left Out: 49.402 $\pm$ 11.806 χ^2 /NDF:28.1/24

Right Out: 41.682 $\pm$ 18.588 χ^2 /NDF: 31.4/26

Left In: 50.331 $\pm$ 12.253 χ^2 /NDF:32.2/22

Left: 49.849 $\pm$ 8.502 χ^2 /NDF: 60.3/47

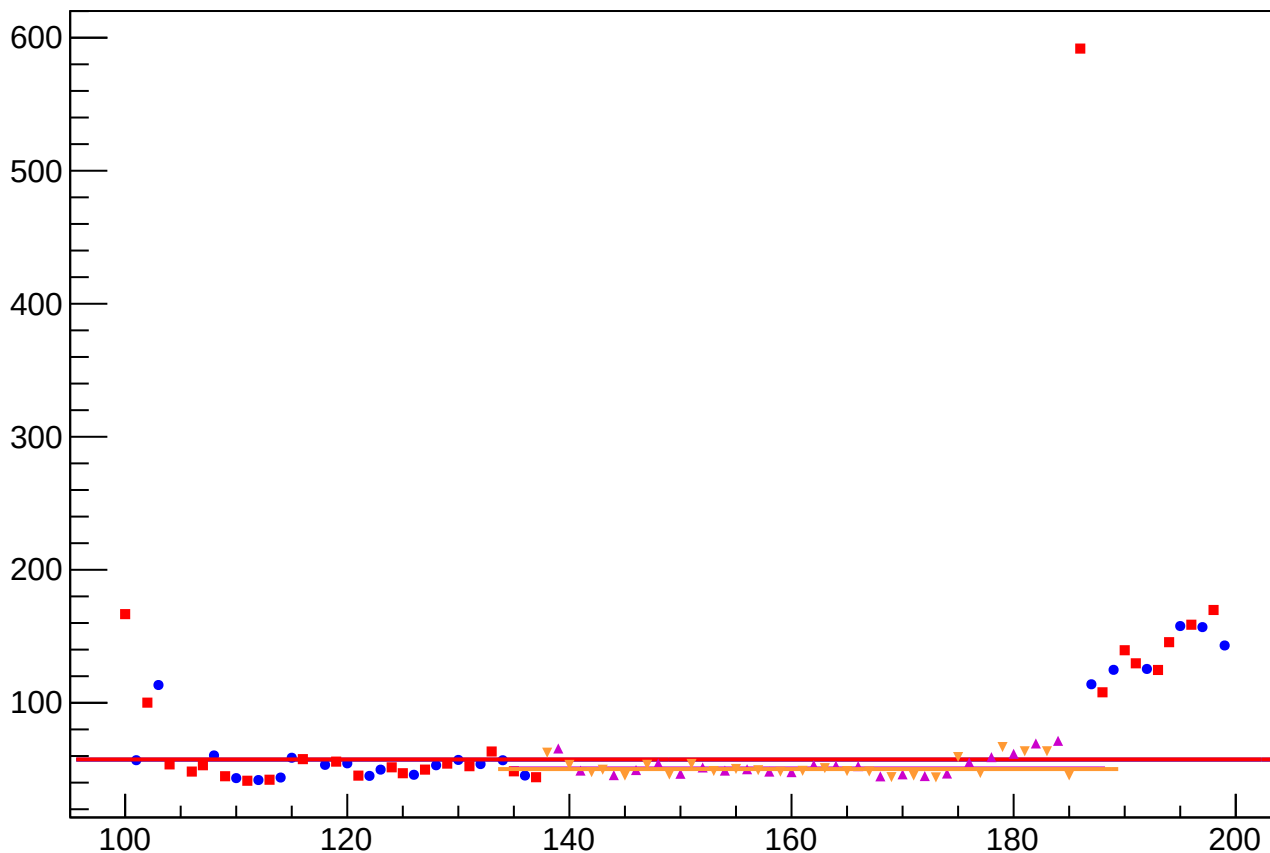
Right: 24.463 $\pm$ 13.424 χ^2 /NDF: 49.8/49

In: 37.608 $\pm$ 10.361 χ^2 /NDF:52.5/45

Out: 47.183 $\pm$ 9.966 χ^2 /NDF:59.6/51

All: 42.581 $\pm$ 7.182 χ^2 /NDF: 112.6/97

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: 57.442 $\pm$ 0.013 χ^2 /NDF: 4543309.6/26

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

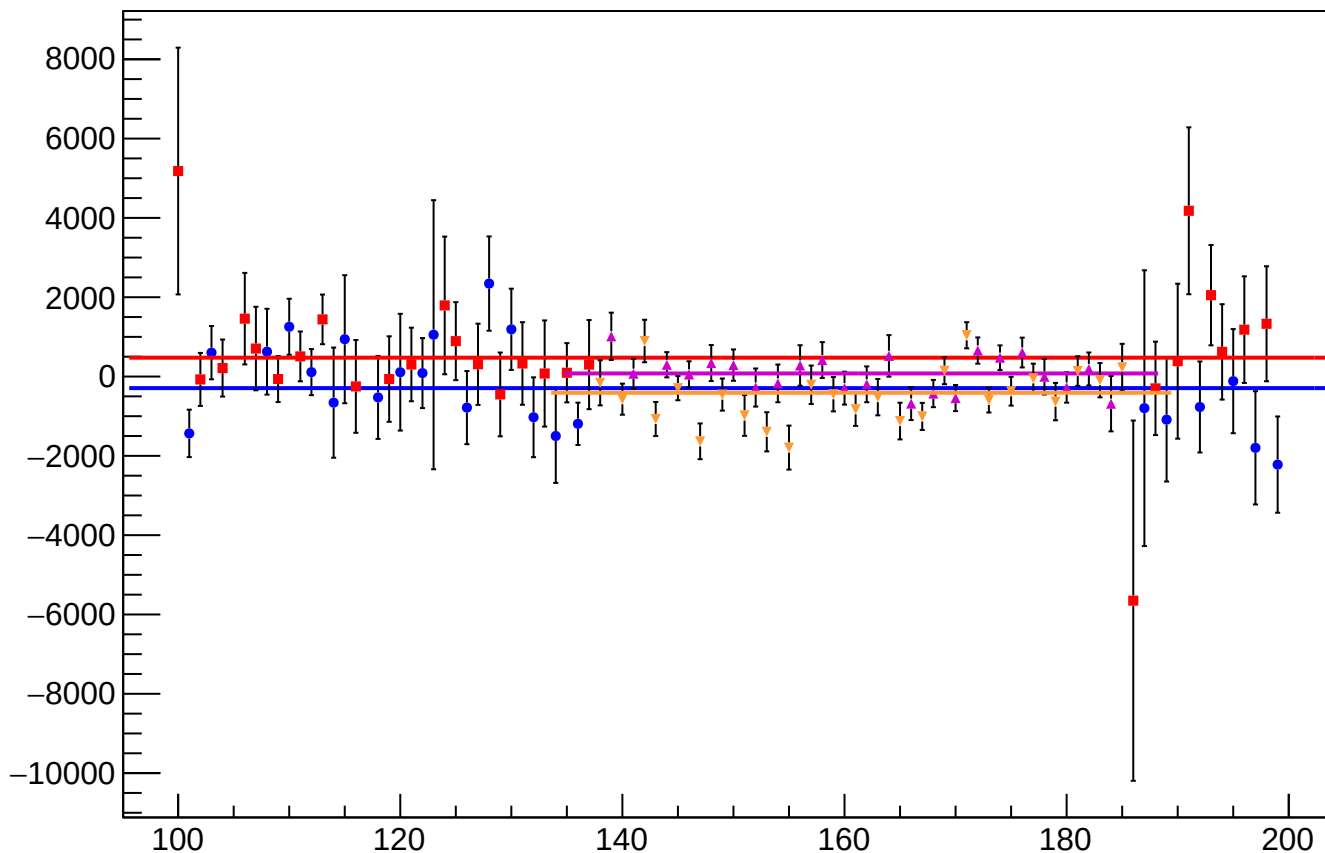
Right: 57.365 $\pm$ 0.009 χ^2 /NDF: 8015796.3/49

In: 52.564 $\pm$ 0.007 χ^2 /NDF: 4107037.8/45

Out: 52.274 $\pm$ 0.007 χ^2 /NDF: 5227932.8/51

All: 52.413 $\pm$ 0.005 χ^2 /NDF: 9335784.7/97

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -292.119 ± 197.898 χ^2/NDF : 28.4/22

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 475.341 ± 190.271 χ^2/NDF : 17.3/26

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

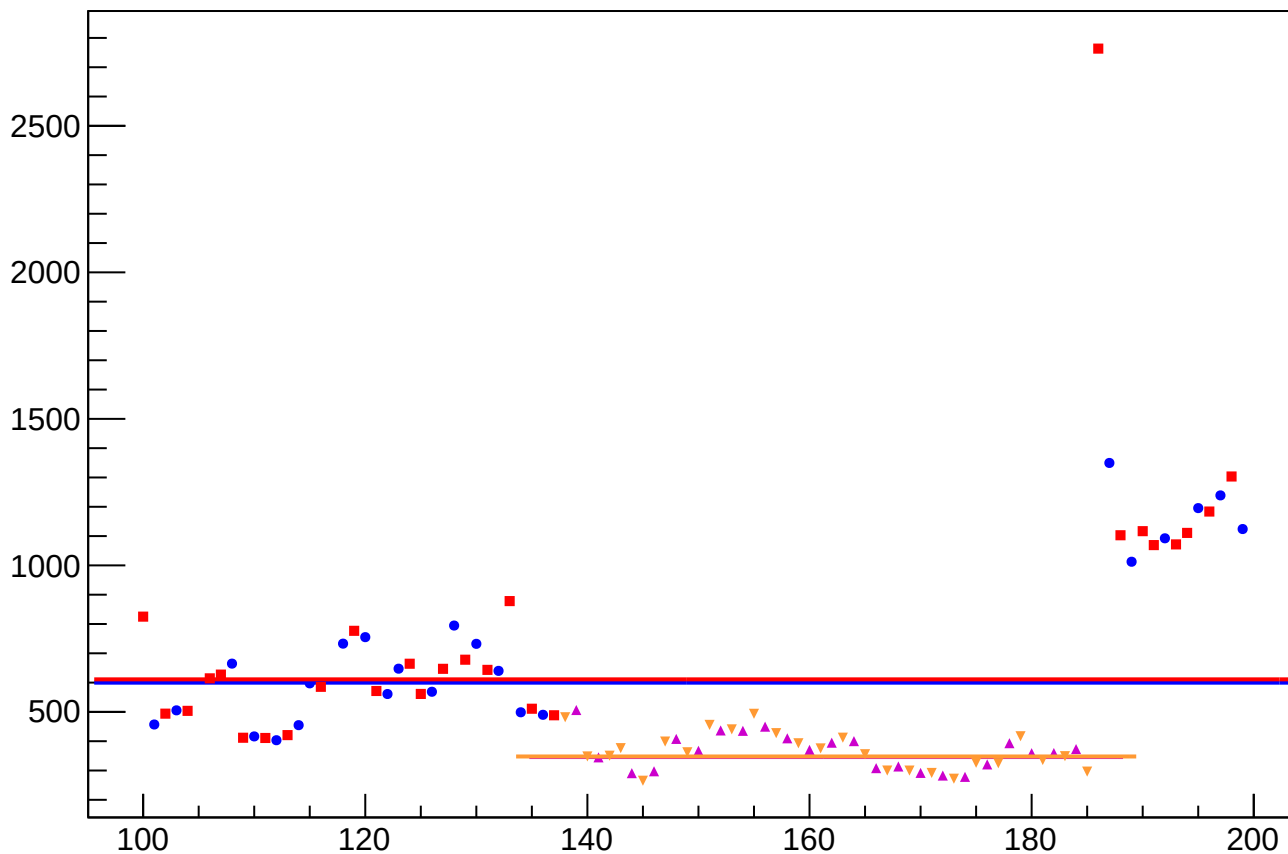
Right: 106.684 ± 137.159 χ^2/NDF : 53.4/49

In: 21.306 ± 77.379 χ^2/NDF : 56.2/45

Out: -269.623 ± 75.574 χ^2/NDF : 97.1/51

All: -127.592 ± 54.066 χ^2/NDF : 160.5/97

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: 611.088 $\pm$ 0.135 χ^2 /NDF: 3406262.9/26

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

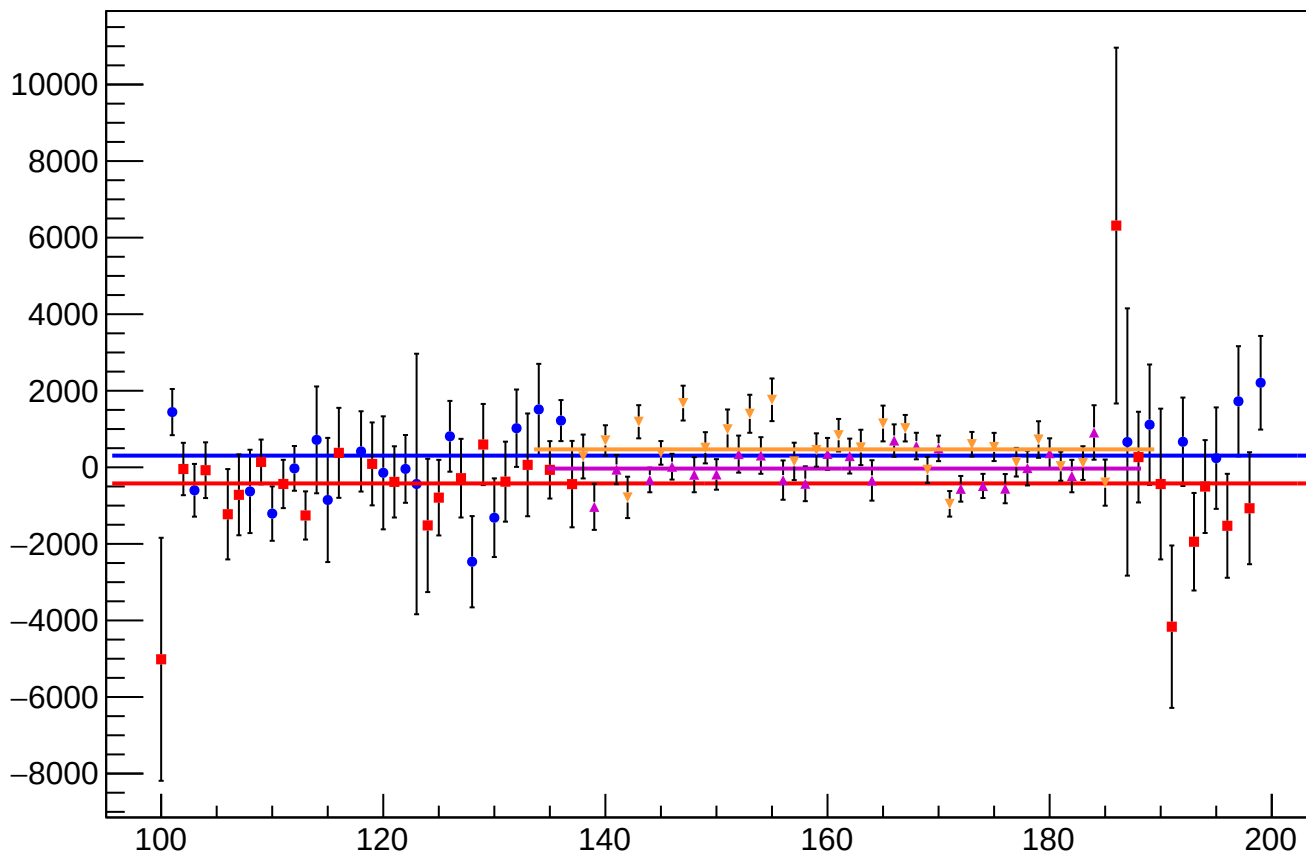
Right: 605.663 $\pm$ 0.097 χ^2 /NDF: 5993178.3/49

In: 384.763 $\pm$ 0.055 χ^2 /NDF: 6271873.4/45

Out: 389.400 $\pm$ 0.053 χ^2 /NDF: 7673914.6/51

All: 387.136 $\pm$ 0.038 χ^2 /NDF: 13949464.3/97

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: -420.724 $\pm$ 191.751 χ^2 /NDF: 16.2/26

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

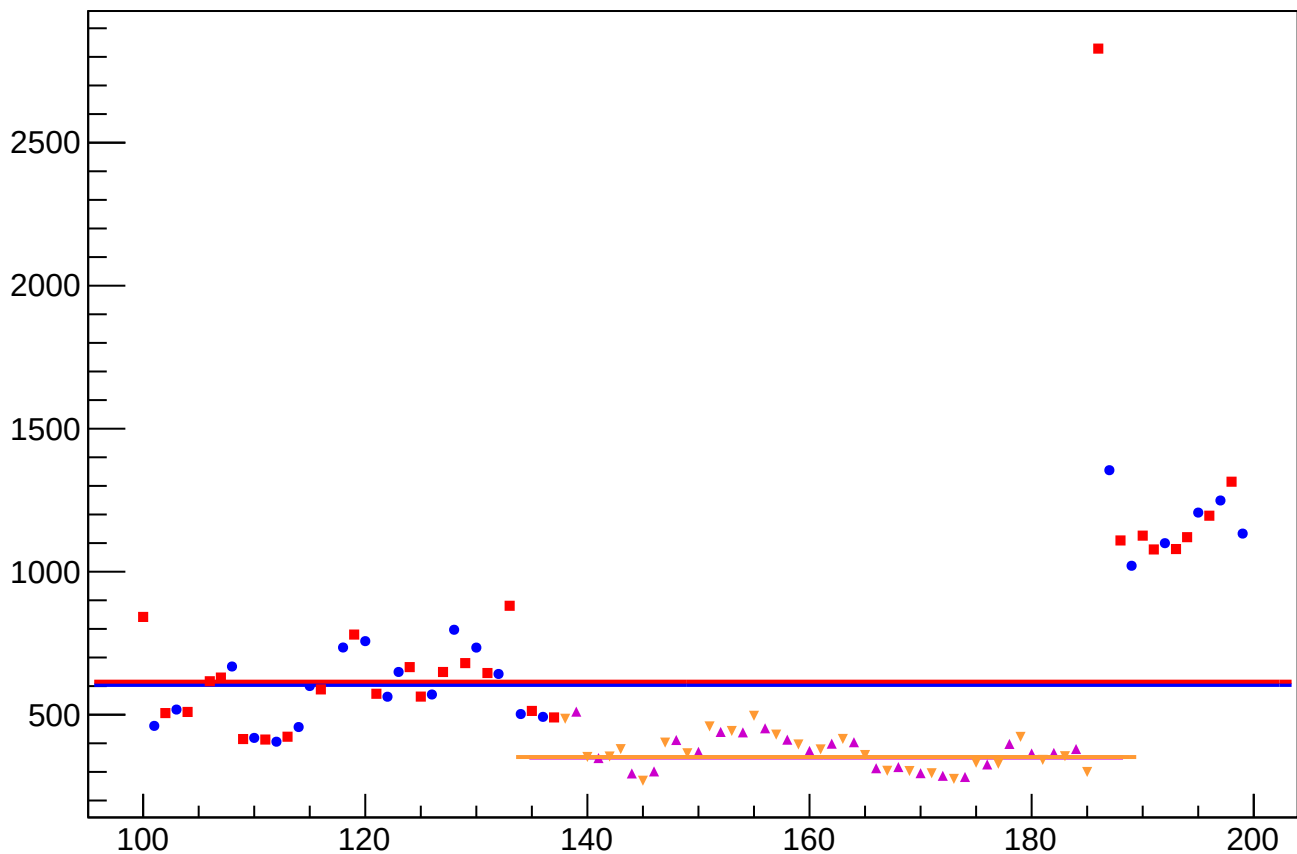
Right: -71.629 $\pm$ 138.184 χ^2 /NDF: 51.3/49

In: 19.331 $\pm$ 78.236 χ^2 /NDF:56.3/45

Out: 327.647 $\pm$ 76.399 χ^2 /NDF:91.8/51

All: 177.152 $\pm$ 54.660 χ^2 /NDF: 156.1/97

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: 615.547+/-0.136 χ^2/NDF : 3407076.0/26

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

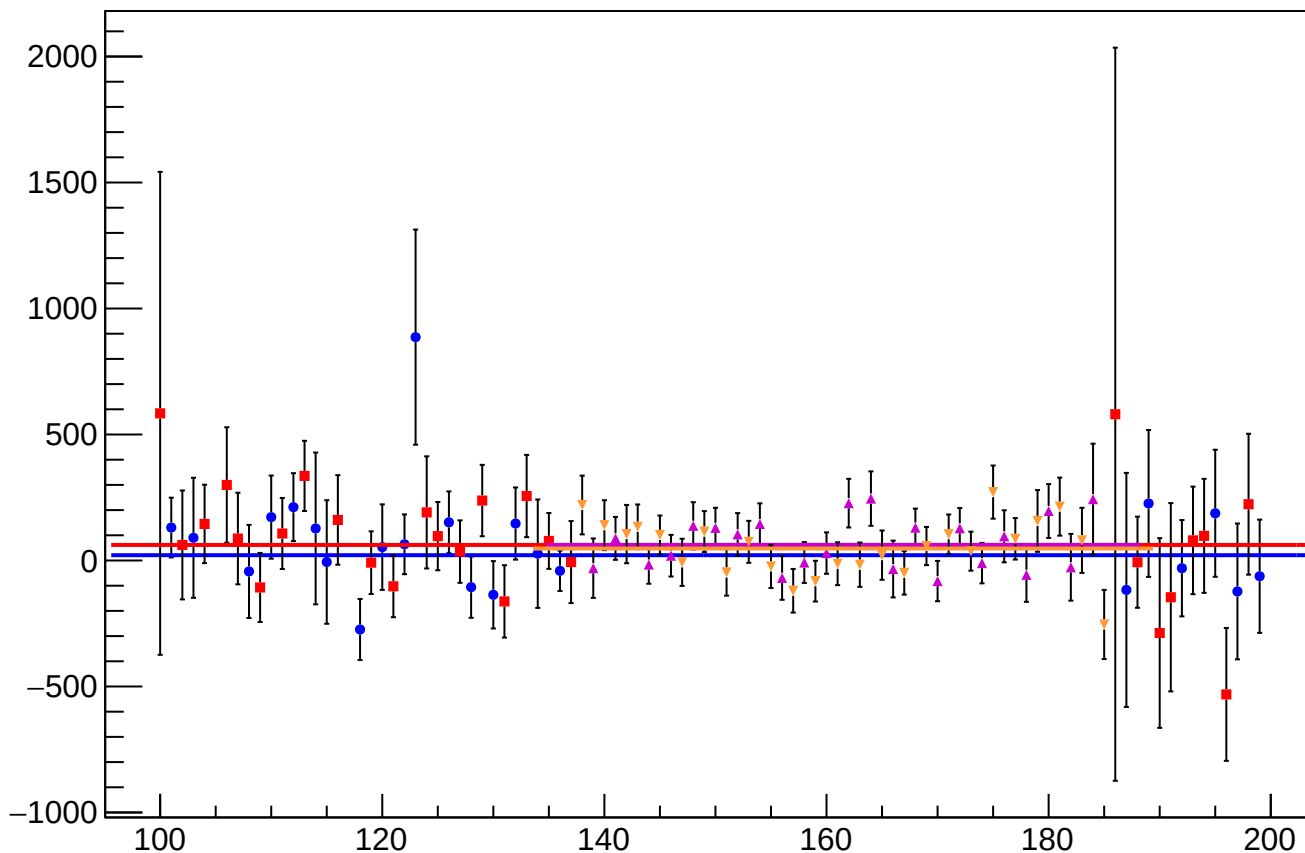
Right: 610.084+/-0.098 χ^2/NDF : 5988824.6/49

In: 389.300+/-0.055 χ^2/NDF : 6204848.5/45

Out: 393.849+/-0.054 χ^2/NDF : 7602236.5/51

All: 391.628+/-0.039 χ^2/NDF : 13810545.2/97

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: 61.688 $\pm$ 32.622 χ^2 /NDF: 22.5/26

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

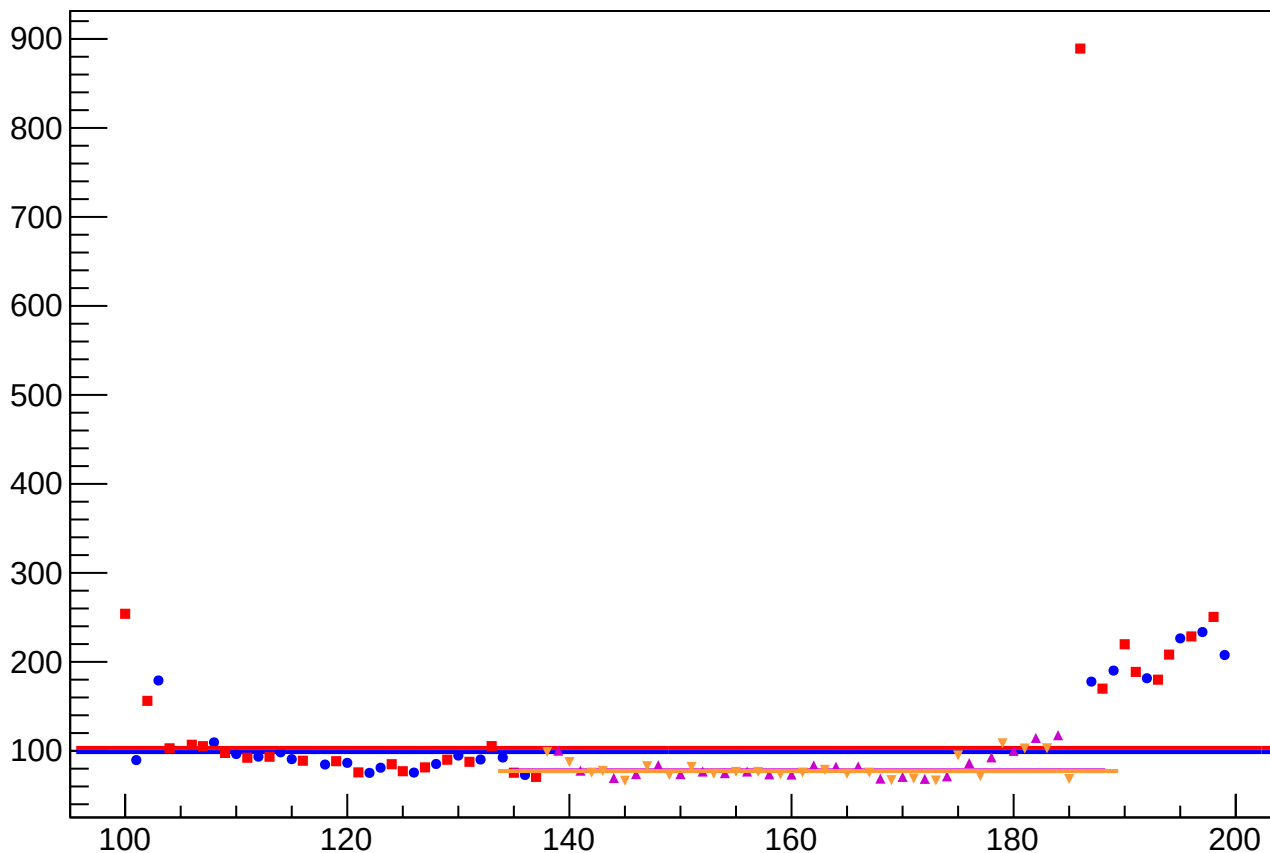
Right: 41.510 $\pm$ 23.148 χ^2 /NDF: 44.0/49

In: 51.641 $\pm$ 16.420 χ^2 /NDF:45.8/45

Out: 50.826 $\pm$ 15.929 χ^2 /NDF:52.0/51

All: 51.221 $\pm$ 11.433 χ^2 /NDF: 97.9/97

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: 103.310 $\pm$ 0.023 χ^2 /NDF: 3581431.9/26

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

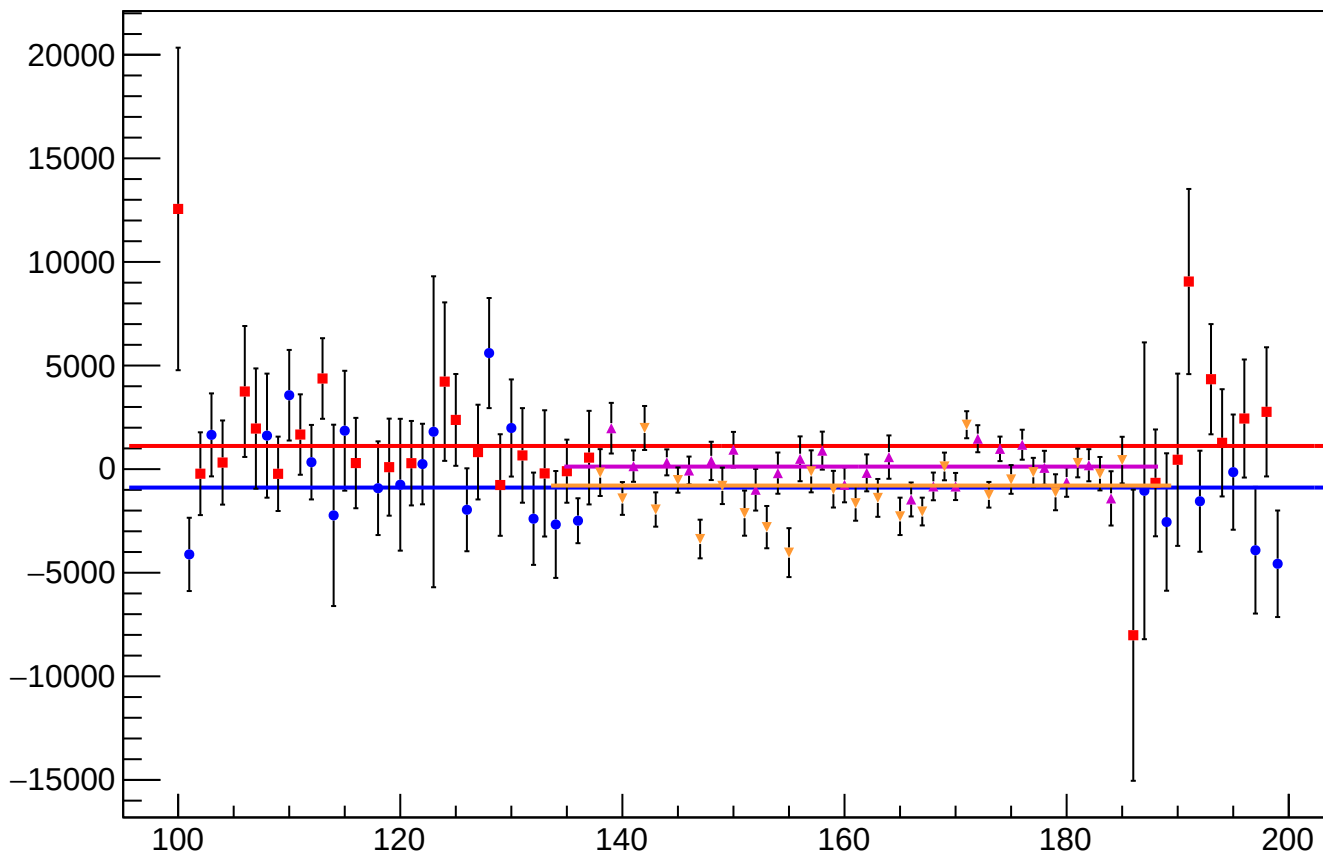
Right: 100.993 $\pm$ 0.016 χ^2 /NDF: 6402181.8/49

In: 83.261 $\pm$ 0.012 χ^2 /NDF: 3966972.3/45

Out: 83.514 $\pm$ 0.011 χ^2 /NDF: 5184150.6/51

All: 83.391 $\pm$ 0.008 χ^2 /NDF: 9151367.2/97

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: 1118.511 ± 468.574 $\chi^2/\text{NDF}: 17.3/26$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

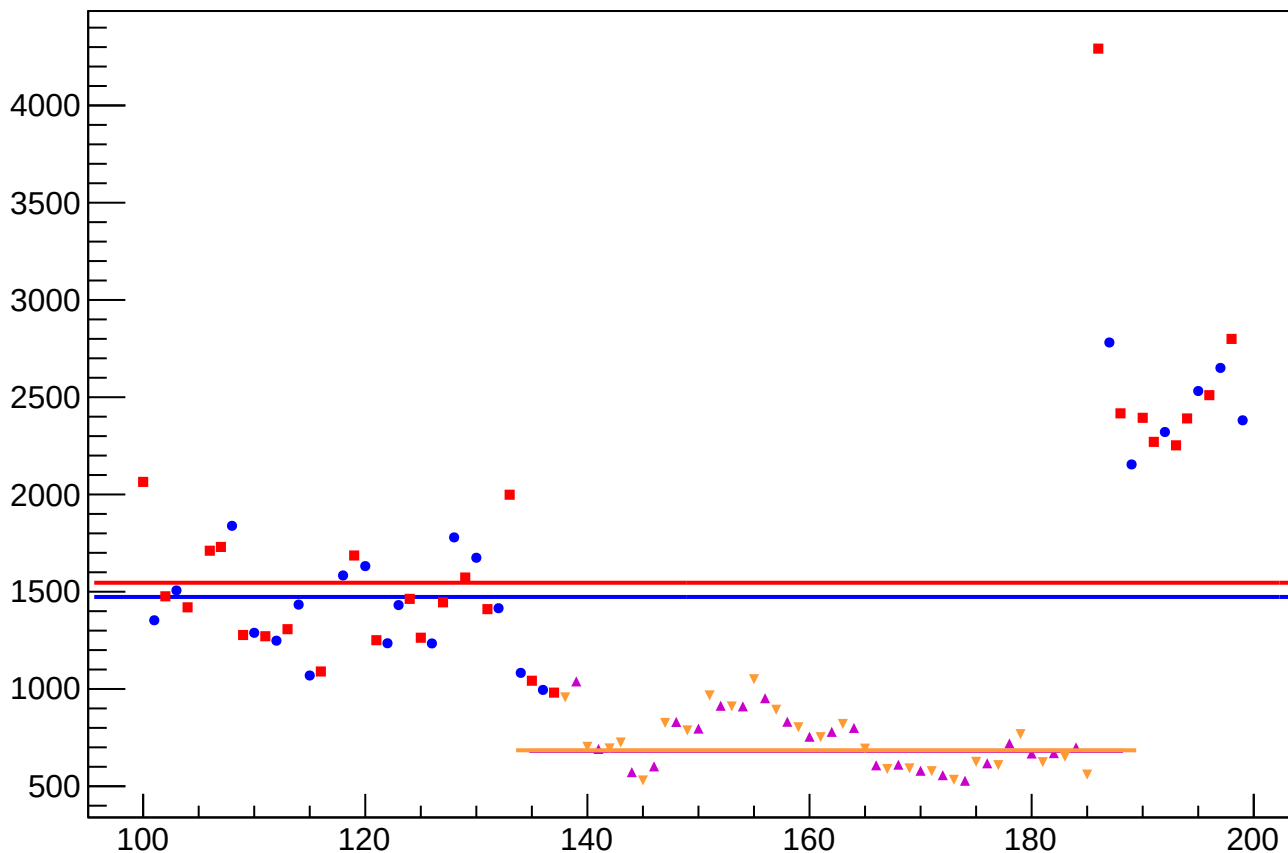
Right: 133.027 ± 334.367 $\chi^2/\text{NDF}: 52.4/49$

In: 12.804 ± 156.950 $\chi^2/\text{NDF}: 56.0/45$

Out: -587.229 ± 153.664 $\chi^2/\text{NDF}: 98.8/51$

All: -293.561 ± 109.800 $\chi^2/\text{NDF}: 162.2/97$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1473.112 ± 0.337 χ^2/NDF : 1898838.3/22

Left Out: 684.785 ± 0.115 χ^2/NDF : 1280146.2/24

Right Out: 1546.235 ± 0.331 χ^2/NDF : 2293641.7/26

Left In: 681.712 ± 0.118 χ^2/NDF : 1119637.0/22

Left: 683.282 ± 0.082 χ^2/NDF : 2400132.5/47

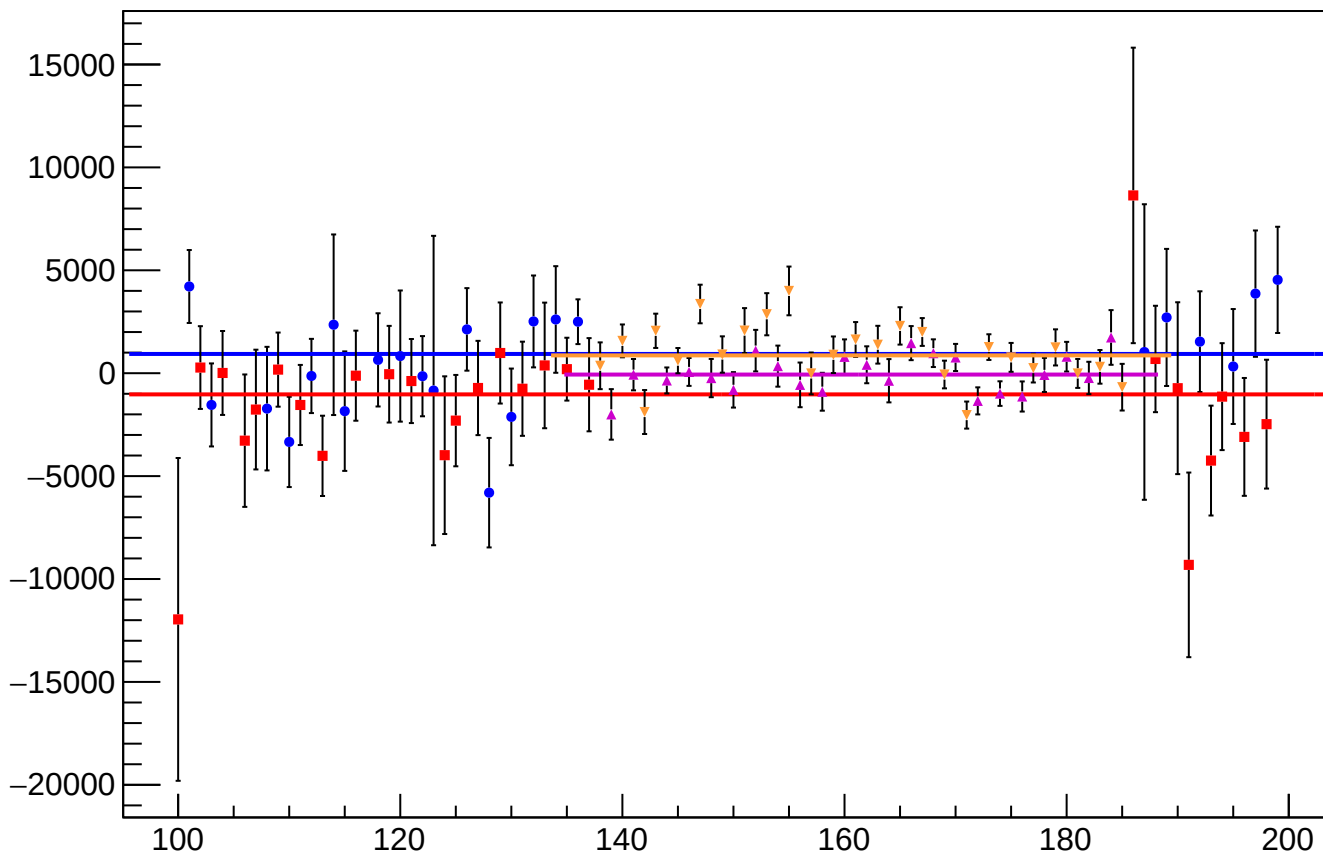
Right: 1510.347 ± 0.236 χ^2/NDF : 4216385.0/49

In: 767.293 ± 0.111 χ^2/NDF : 7922764.3/45

Out: 777.429 ± 0.109 χ^2/NDF : 9606619.4/51

All: 772.468 ± 0.078 χ^2/NDF : 17533642.2/97

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: -1029.055 $\pm$ 470.207 χ^2 /NDF: 16.9/26

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

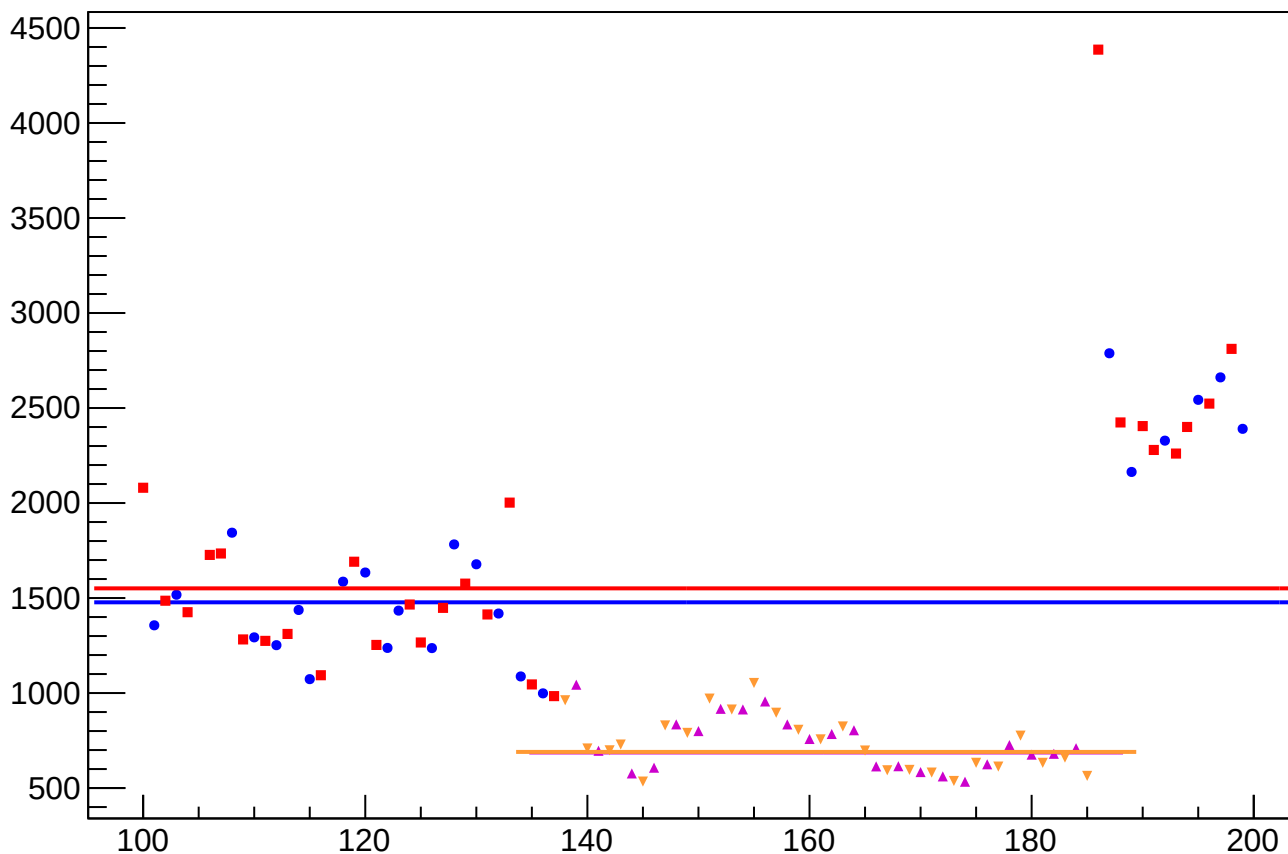
Right: -64.458 $\pm$ 335.451 χ^2 /NDF: 51.4/49

In: 43.271 $\pm$ 158.088 χ^2 /NDF:56.3/45

Out: 660.367 $\pm$ 154.755 χ^2 /NDF:94.2/51

All: 358.393 $\pm$ 110.588 χ^2 /NDF: 158.3/97

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: 1550.880+/-0.332 χ^2/NDF : 2305189.2/26

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

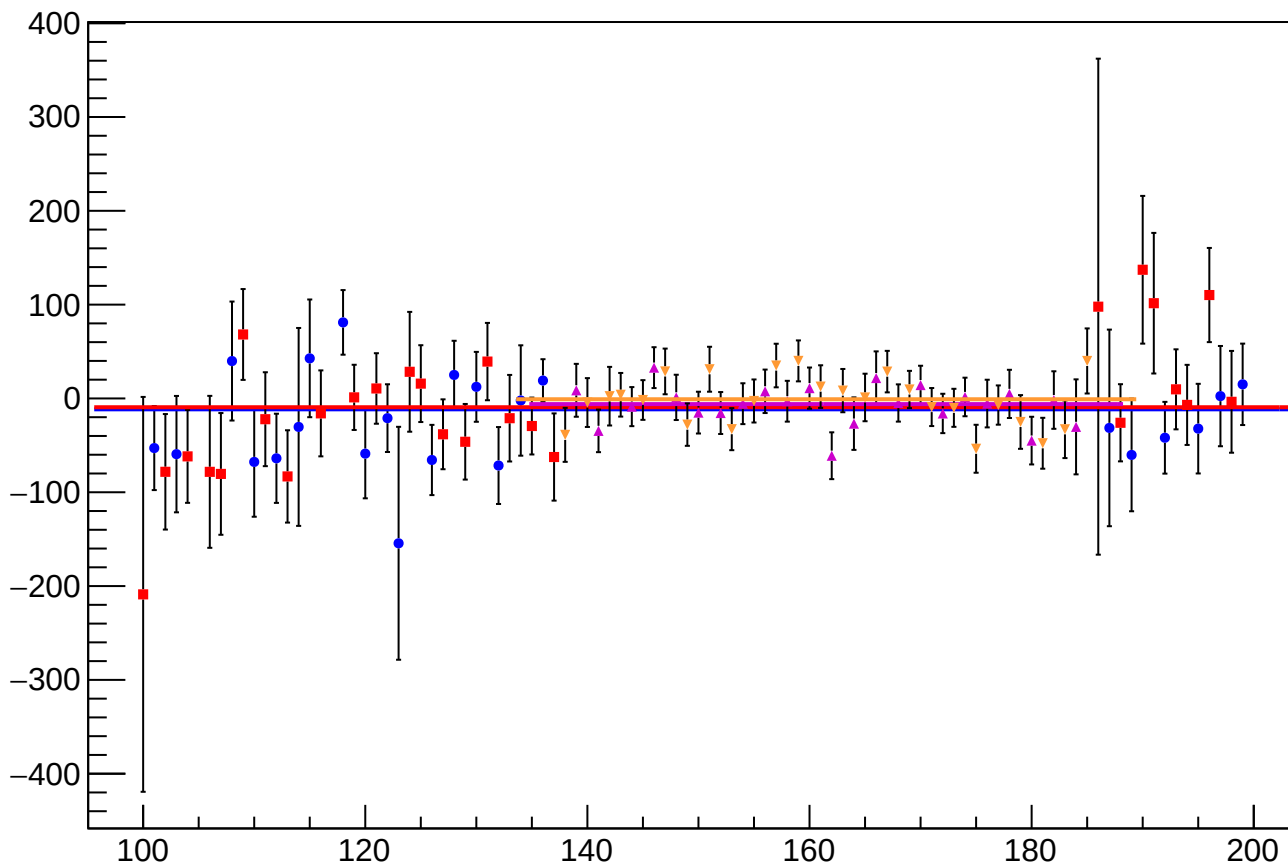
Right: 1514.814+/-0.237 χ^2/NDF : 4230494.2/49

In: 773.397+/-0.112 χ^2/NDF : 7856547.2/45

Out: 783.399+/-0.109 χ^2/NDF : 9538900.0/51

All: 778.504+/-0.078 χ^2/NDF : 17399536.0/97

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -11.606 ± 9.294 $\chi^2/\text{NDF}: 24.1/22$

Left Out: -0.861 ± 4.760 $\chi^2/\text{NDF}: 27.9/24$

Right Out: -9.379 ± 9.166 $\chi^2/\text{NDF}: 27.7/26$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

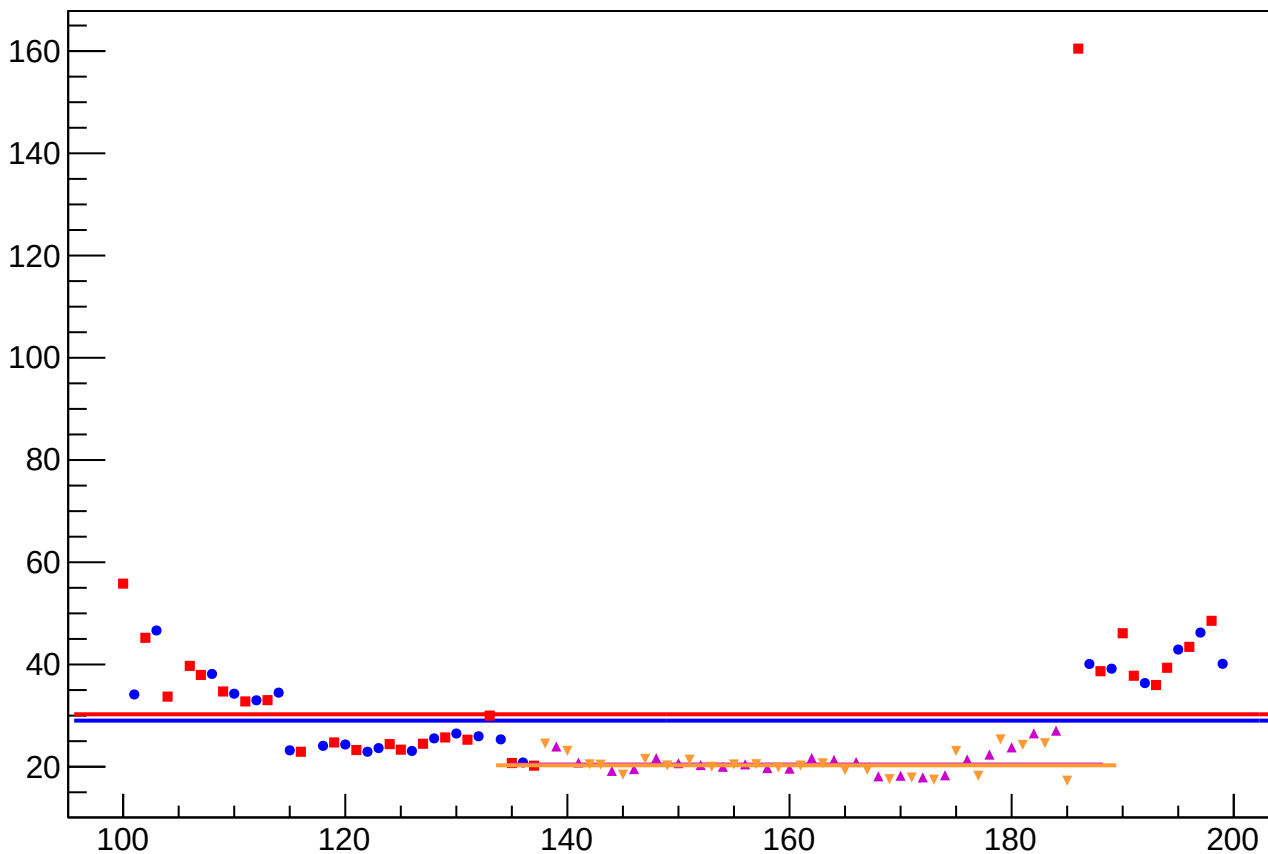
Right: -10.477 ± 6.526 $\chi^2/\text{NDF}: 51.8/49$

In: -7.262 ± 4.352 $\chi^2/\text{NDF}: 41.3/45$

Out: -2.671 ± 4.225 $\chi^2/\text{NDF}: 56.3/51$

All: -4.898 ± 3.031 $\chi^2/\text{NDF}: 98.1/97$

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: 30.259+/-0.006 χ^2/NDF : 2042253.2/26

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

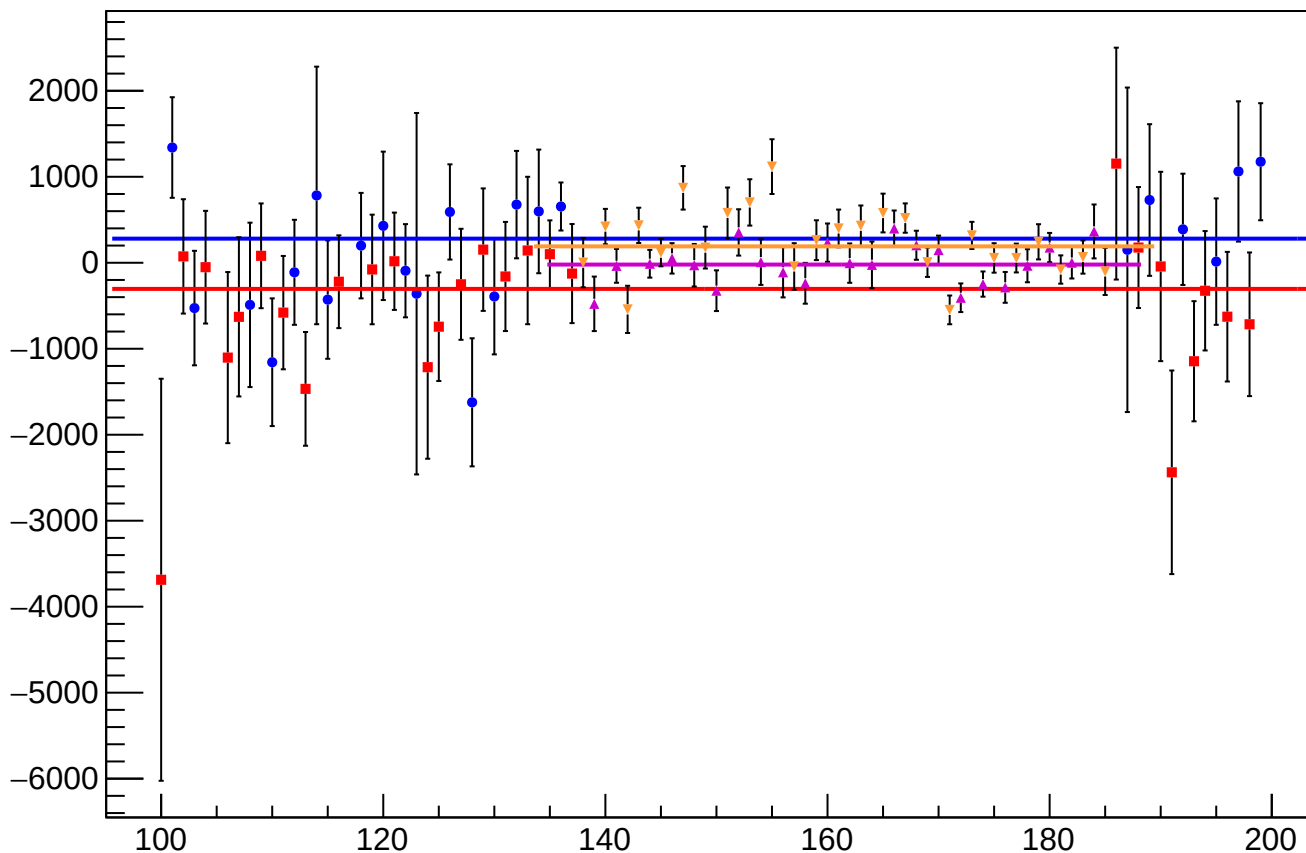
Right: 29.648+/-0.005 χ^2/NDF : 3480658.7/49

In: 22.308+/-0.003 χ^2/NDF : 3079413.1/45

Out: 22.399+/-0.003 χ^2/NDF : 4316637.8/51

All: 22.355+/-0.002 χ^2/NDF : 7396498.7/97

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 280.502 ± 134.841 χ^2/NDF : 24.6/22

Left Out: 190.867 ± 41.314 χ^2/NDF : 67.9/24

Right Out: -303.861 ± 133.921 χ^2/NDF : 17.4/26

Left In: -20.998 ± 42.291 χ^2/NDF : 27.7/22

Left: 87.410 ± 29.553 χ^2/NDF : 108.4/47

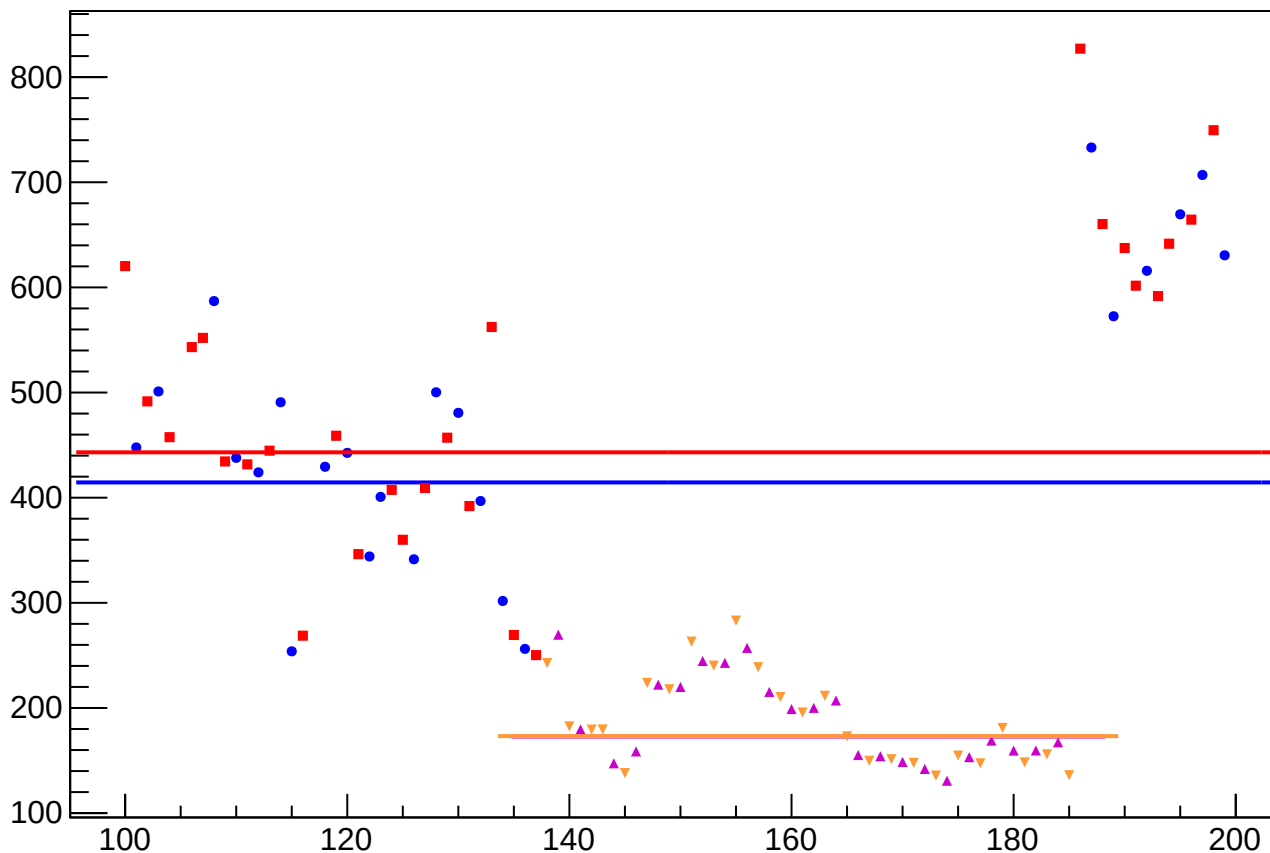
Right: -13.680 ± 95.020 χ^2/NDF : 51.5/49

In: 6.003 ± 40.353 χ^2/NDF : 56.9/45

Out: 147.876 ± 39.478 χ^2/NDF : 97.7/51

All: 78.494 ± 28.219 χ^2/NDF : 161.0/97

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: 443.142 $\pm$ 0.095 χ^2 /NDF: 2195581.4/26

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

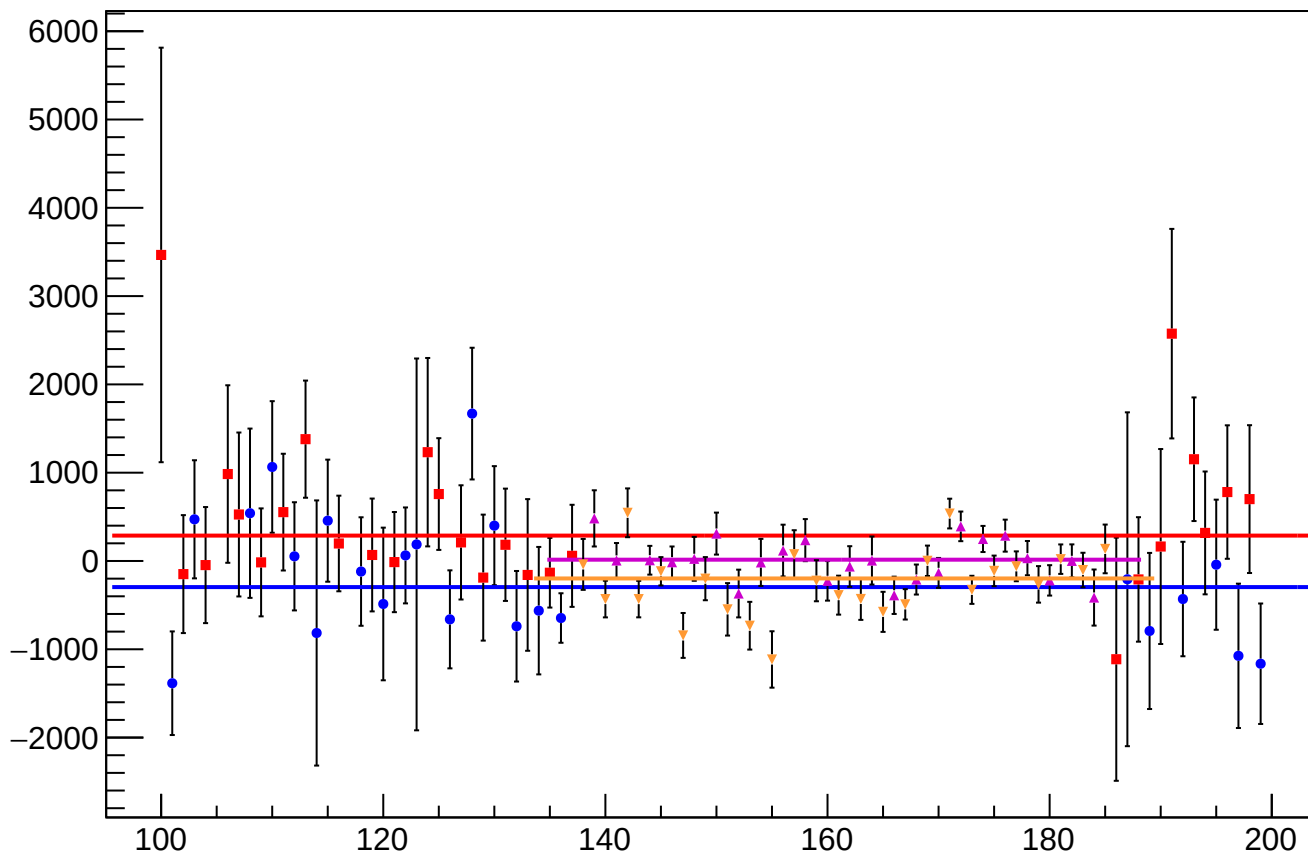
Right: 428.925 $\pm$ 0.067 χ^2 /NDF: 4287689.2/49

In: 194.472 $\pm$ 0.029 χ^2 /NDF: 9268618.2/45

Out: 196.667 $\pm$ 0.028 χ^2 /NDF: 11176142.1/51

All: 195.594 $\pm$ 0.020 χ^2 /NDF: 20447782.4/97

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: 287.488 ± 134.324 χ^2/NDF : 17.4/26

Left In: 14.616 ± 42.629 χ^2/NDF : 27.7/22

Left: -94.151 ± 29.787 χ^2/NDF : 104.7/47

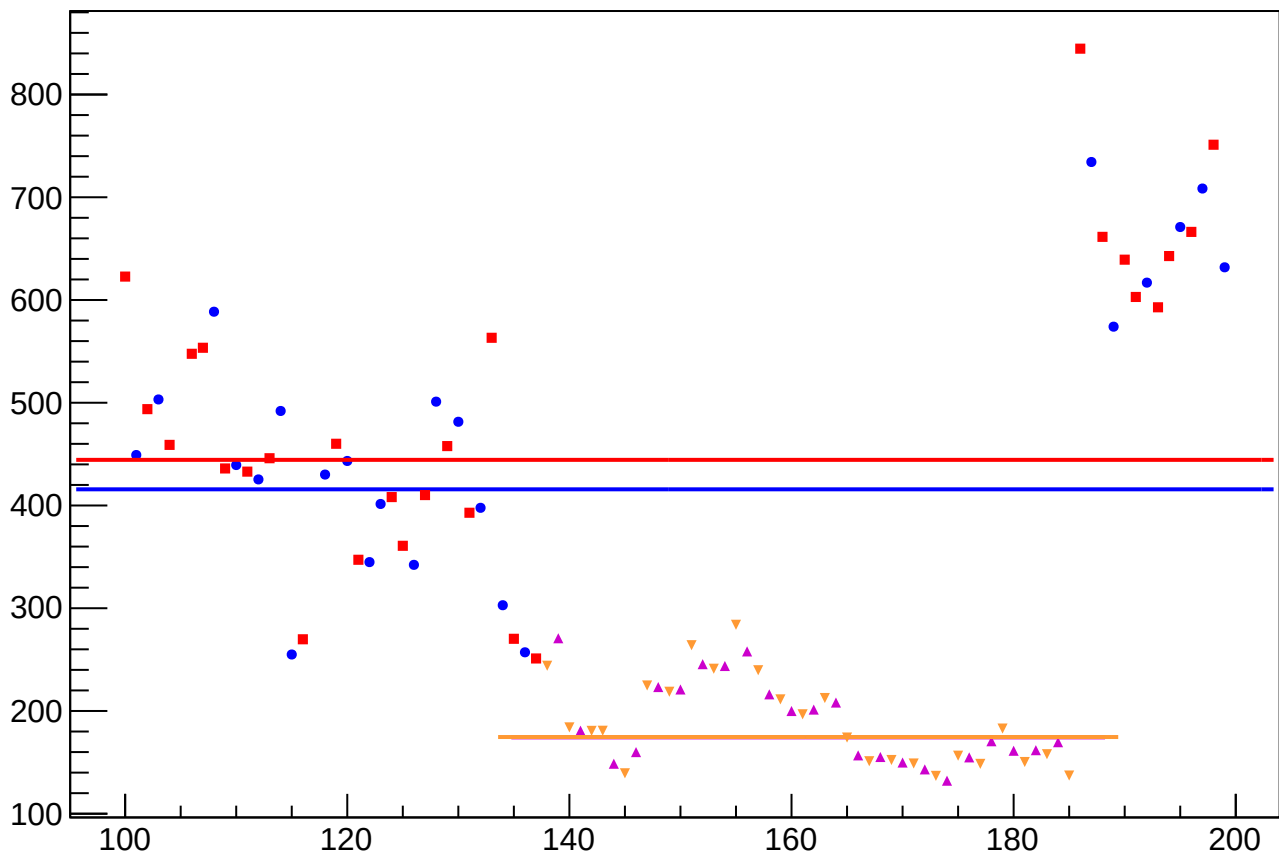
Right: -2.179 ± 95.295 χ^2/NDF : 51.6/49

In: -13.440 ± 40.657 χ^2/NDF : 57.2/45

Out: -155.365 ± 39.771 χ^2/NDF : 93.6/51

All: -85.965 ± 28.430 χ^2/NDF : 157.1/97

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: 444.419 $\pm$ 0.095 χ^2/NDF : 2199588.7/26

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

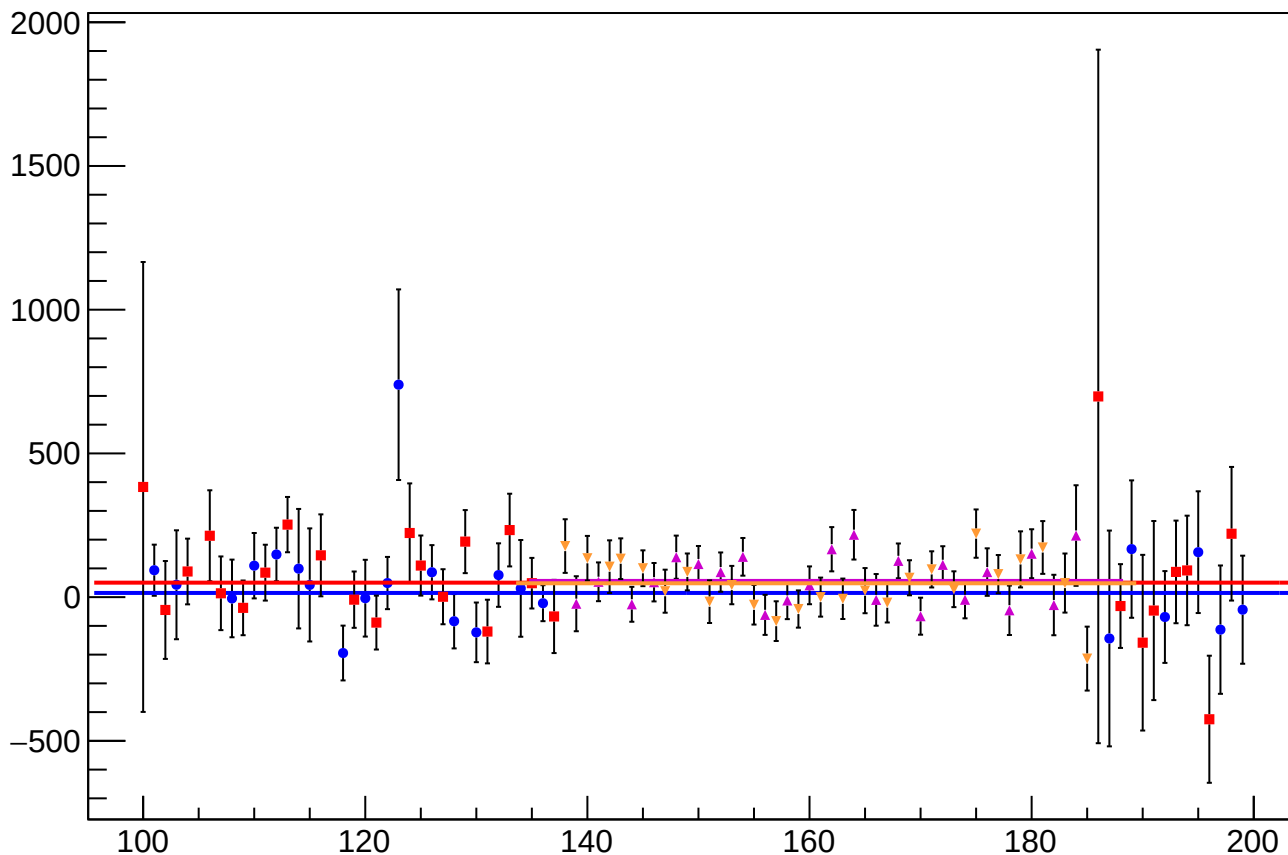
Right: 430.172 $\pm$ 0.067 χ^2/NDF : 4285662.7/49

In: 196.117 $\pm$ 0.029 χ^2/NDF :9186117.2/45

Out: 198.297 $\pm$ 0.028 χ^2/NDF :11091361.1/51

All: 197.231 $\pm$ 0.020 χ^2/NDF : 20280416.9/97

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 14.622+/-25.223 χ^2/NDF : 19.3/22

Left Out: 48.233+/-14.616 χ^2/NDF : 29.3/24

Right Out: 50.391+/-24.815 χ^2/NDF : 25.1/26

Left In: 56.403+/-15.182 χ^2/NDF : 27.5/22

Left: 52.163+/-10.529 χ^2/NDF : 56.9/47

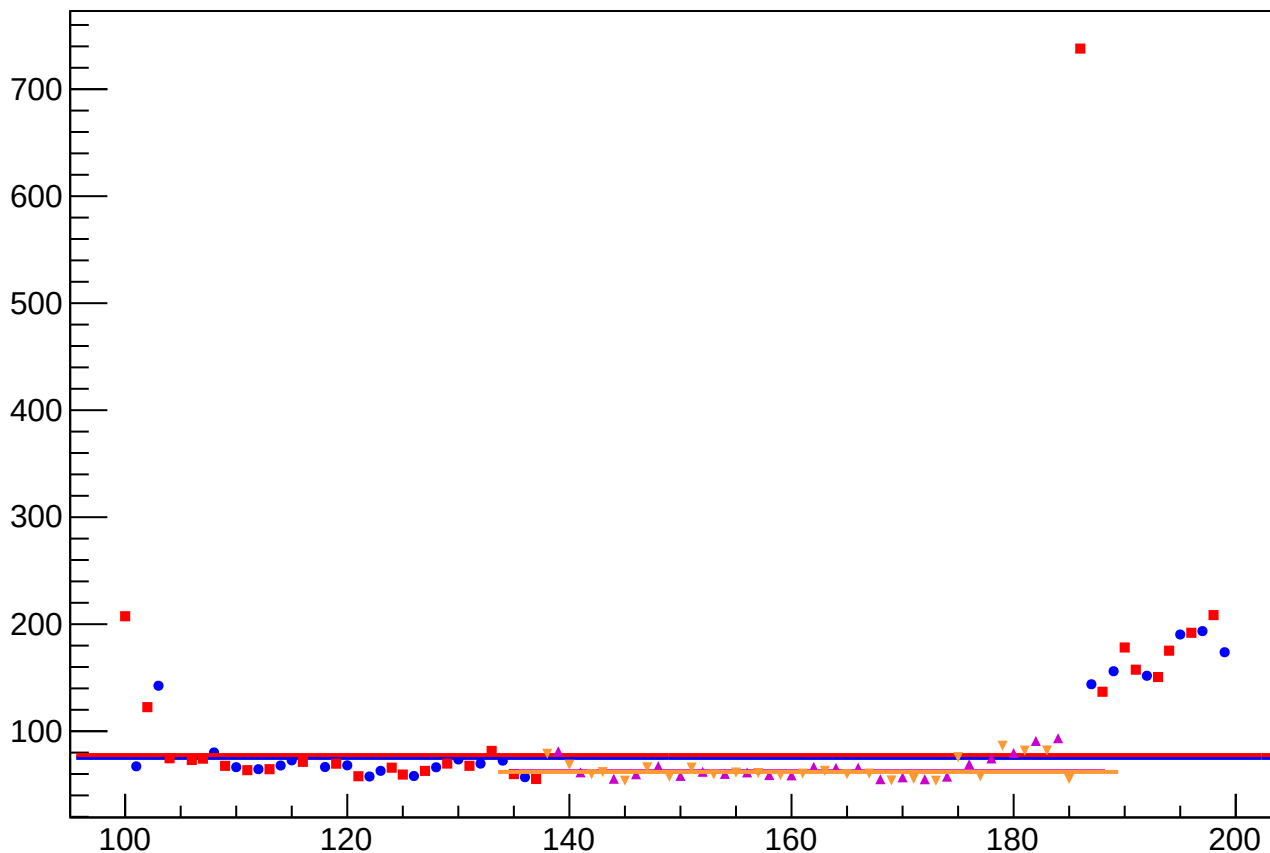
Right: 32.798+/-17.689 χ^2/NDF : 45.5/49

In: 45.292+/-13.008 χ^2/NDF : 48.8/45

Out: 48.789+/-12.594 χ^2/NDF : 54.4/51

All: 47.097+/-9.048 χ^2/NDF : 103.3/97

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 75.058 $\pm$ 0.018 χ^2 /NDF: 3129187.9/22

Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24

Right Out: 77.699 $\pm$ 0.018 χ^2 /NDF: 3997813.6/26

Left In: 62.607 $\pm$ 0.011 χ^2 /NDF: 575516.1/22

Left: 62.264 $\pm$ 0.007 χ^2 /NDF: 1182470.7/47

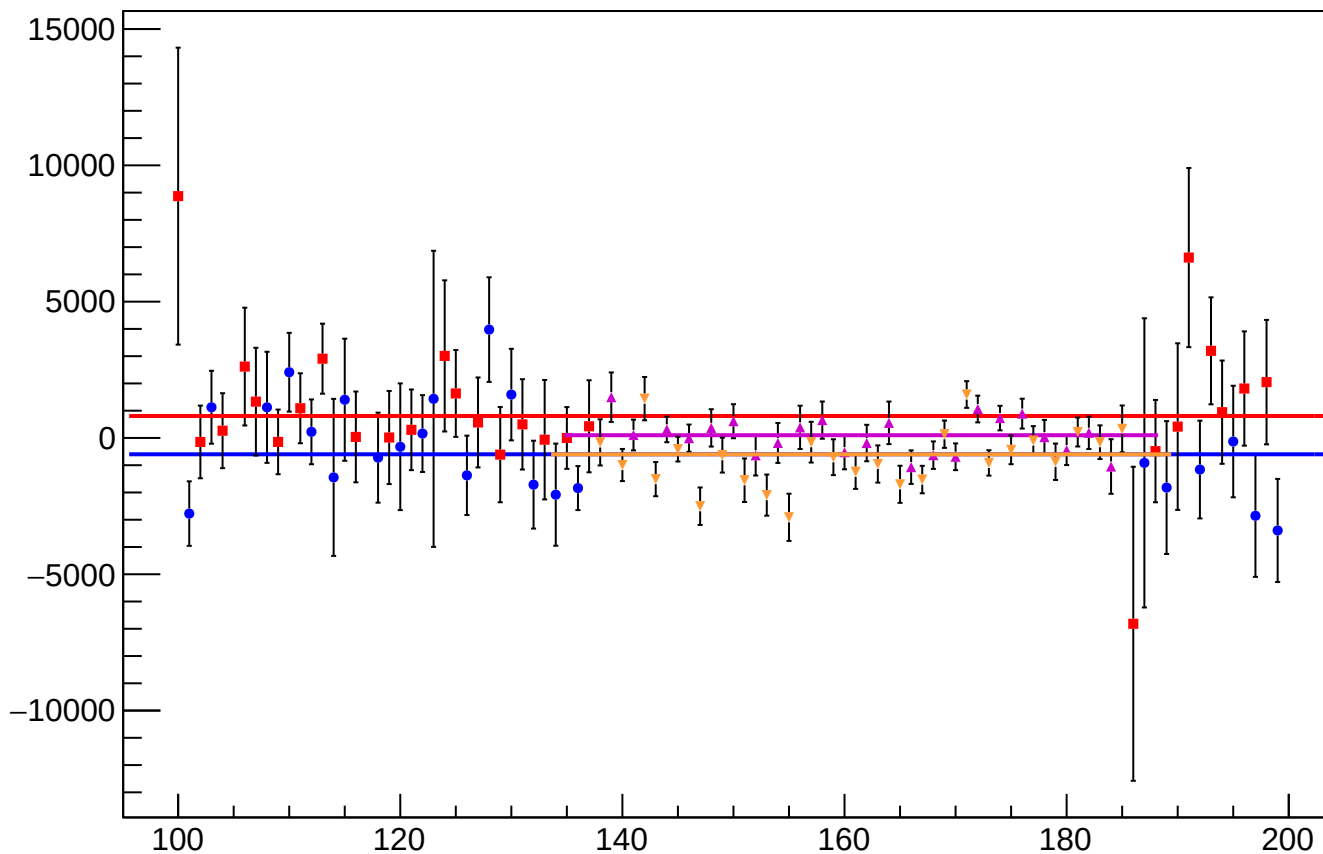
Right: 76.400 $\pm$ 0.013 χ^2 /NDF: 7138139.7/49

In: 65.918 $\pm$ 0.009 χ^2 /NDF: 4062445.9/45

Out: 66.003 $\pm$ 0.009 χ^2 /NDF: 5201136.3/51

All: 65.962 $\pm$ 0.006 χ^2 /NDF: 9263626.4/97

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: 805.748+/-331.978 χ^2/NDF : 17.3/26

Left In: 100.548+/-124.725 χ^2/NDF :25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

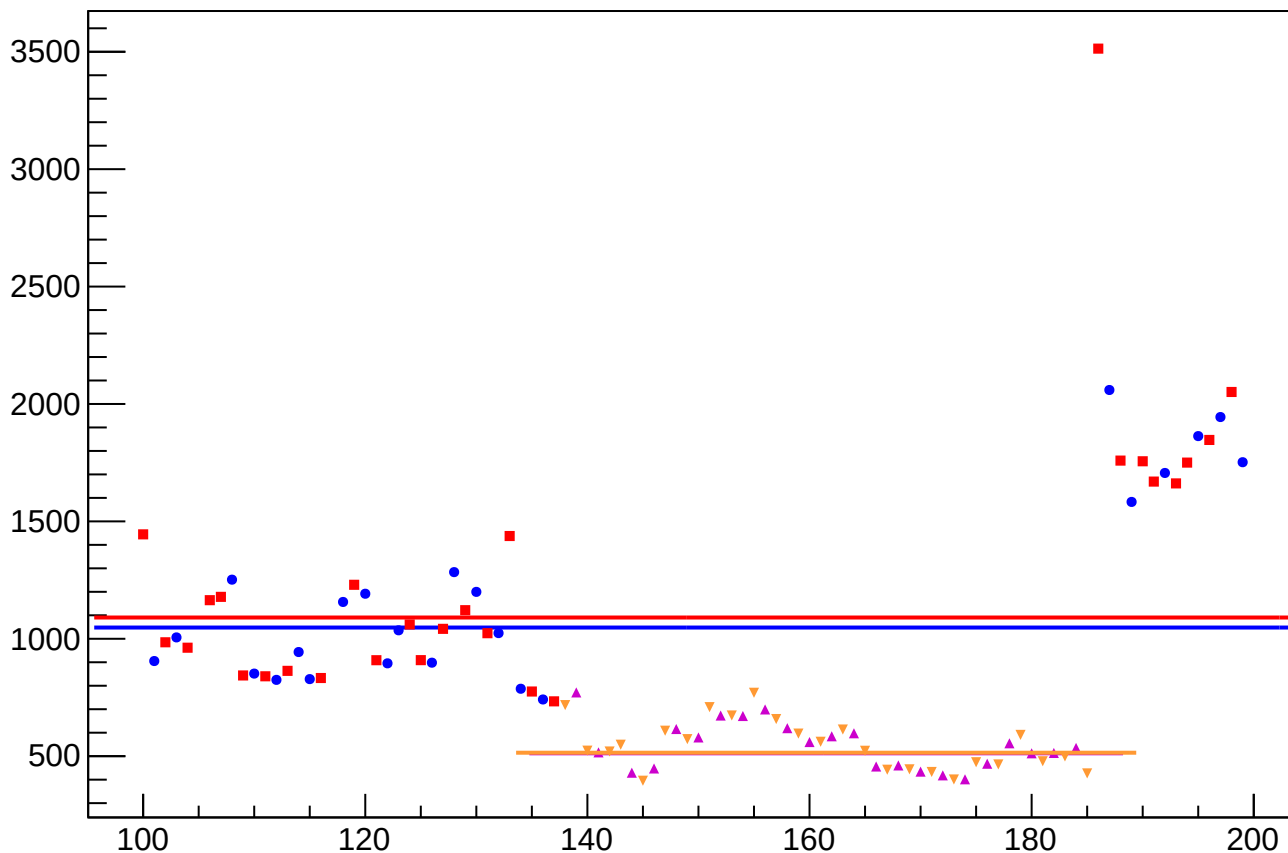
Right: 120.242+/-237.566 χ^2/NDF : 52.6/49

In: 17.592+/-117.099 χ^2/NDF :55.8/45

Out: -433.762+/-114.610 χ^2/NDF :98.5/51

All: -212.932+/-81.907 χ^2/NDF : 161.9/97

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: 1090.566+/-0.235 χ^2/NDF : 2478613.2/26

Left In: 512.199+/-0.088 χ^2/NDF : 1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

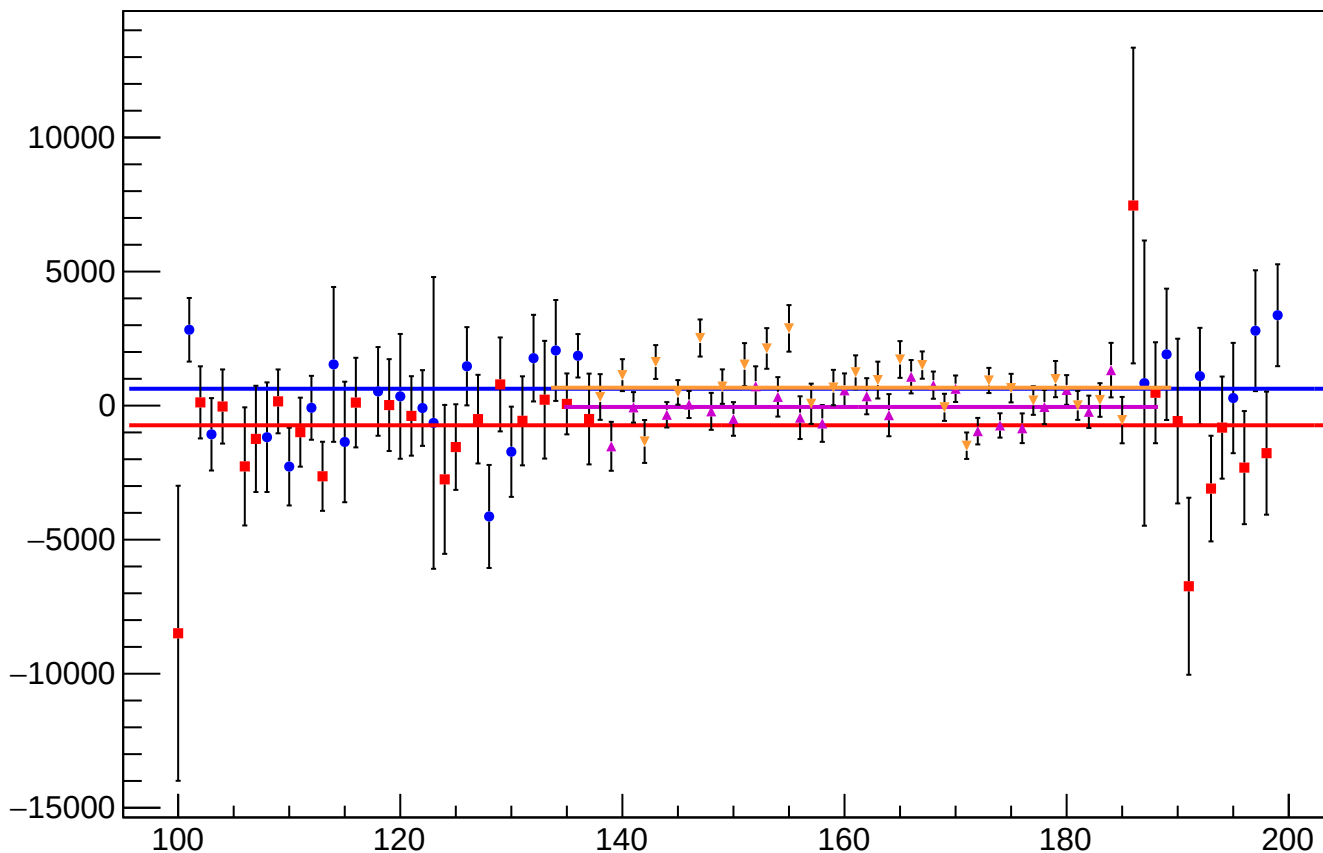
Right: 1069.734+/-0.168 χ^2/NDF : 4462981.6/49

In: 575.699+/-0.083 χ^2/NDF : 7382667.3/45

Out: 583.387+/-0.081 χ^2/NDF : 8973260.3/51

All: 579.625+/-0.058 χ^2/NDF : 16360330.5/97

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: -733.294+/-333.369 χ^2/NDF : 16.6/26

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

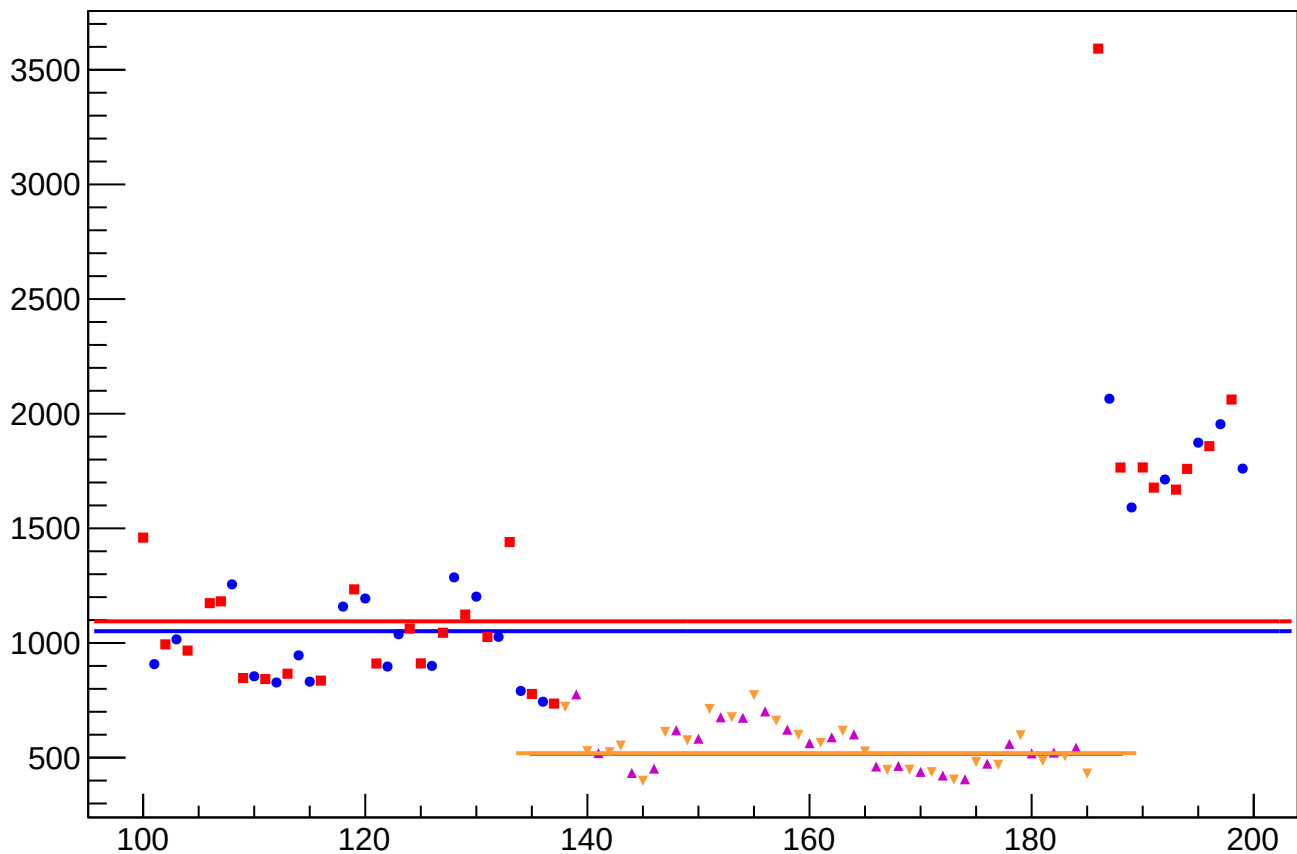
Right: -68.190+/-238.496 χ^2/NDF : 51.3/49

In: 31.146+/-118.043 χ^2/NDF : 56.1/45

Out: 499.416+/-115.516 χ^2/NDF : 93.7/51

All: 270.346+/-82.561 χ^2/NDF : 157.8/97

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: 1094.492+/-0.236 χ^2/NDF : 2491338.2/26

Left In: 516.792+/-0.089 χ^2/NDF : 1021374.1/22

Left: 518.049+/-0.062 χ^2/NDF : 2194176.4/47

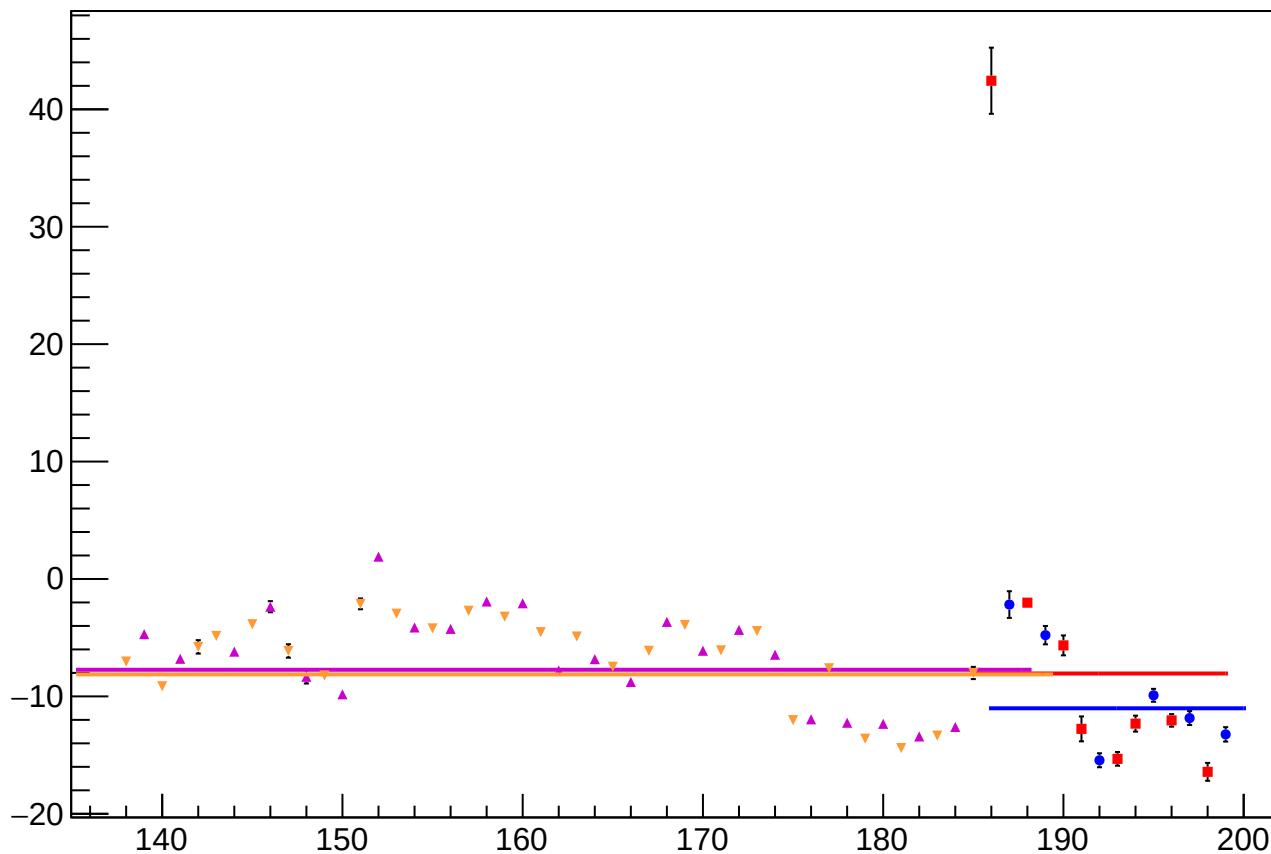
Right: 1073.529+/-0.169 χ^2/NDF : 4480175.2/49

In: 580.745+/-0.083 χ^2/NDF : 7315732.4/45

Out: 588.323+/-0.082 χ^2/NDF : 8903647.3/51

All: 584.616+/-0.058 χ^2/NDF : 16223589.7/97

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: -8.051 ± 0.215 $\chi^2/\text{NDF}: 1041.6/7$

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: -9.218 ± 0.168 $\chi^2/\text{NDF}: 1314.2/13$

In: -7.936 ± 0.067 $\chi^2/\text{NDF}: 4058.6/28$

Out: -8.121 ± 0.064 $\chi^2/\text{NDF}: 4677.2/32$

All: -8.032 ± 0.046 $\chi^2/\text{NDF}: 8739.7/61$

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: -59.468 $\pm$ 0.125 χ^2 /NDF: 5899.2/26

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

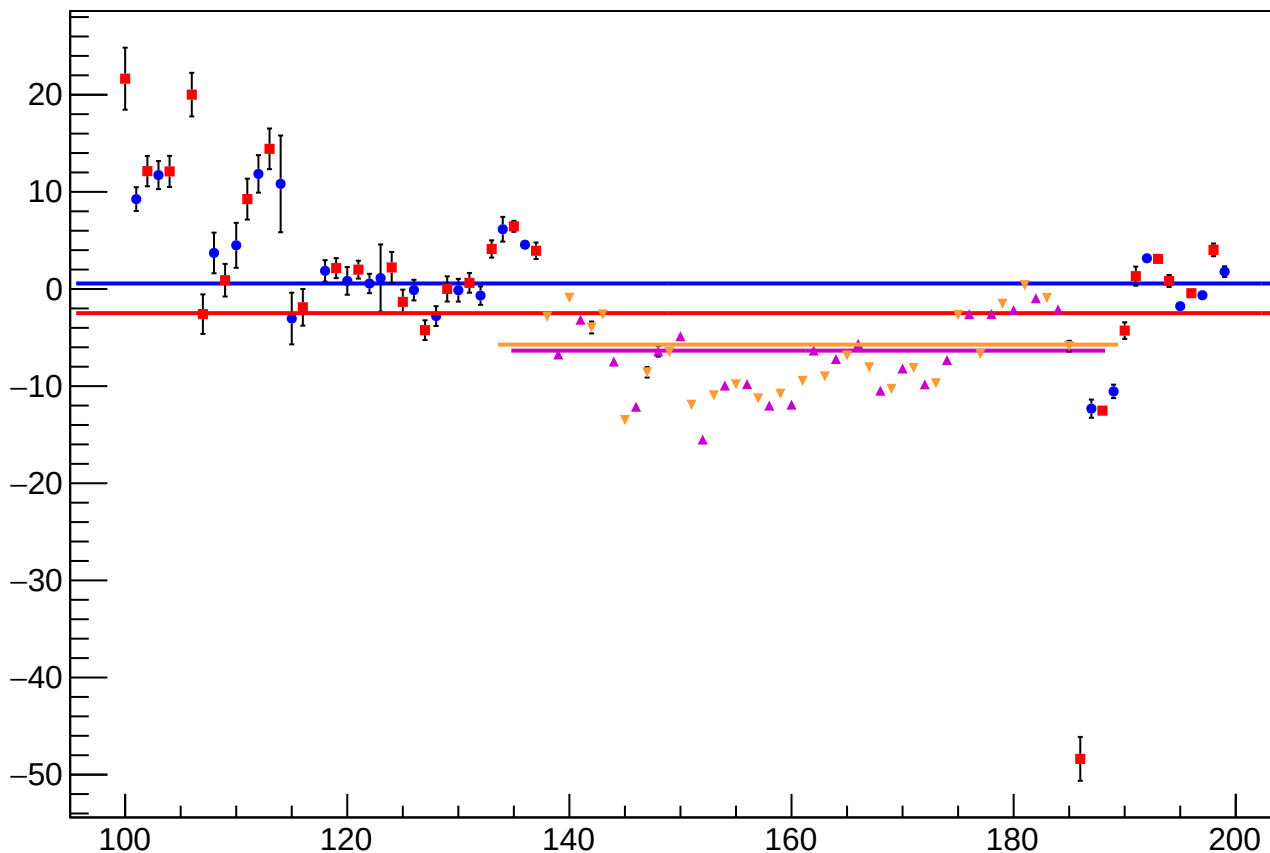
Right: -59.075 $\pm$ 0.090 χ^2 /NDF: 9791.2/49

In: -53.132 $\pm$ 0.052 χ^2 /NDF: 9268.1/45

Out: -53.465 $\pm$ 0.050 χ^2 /NDF: 11321.0/51

All: -53.304 $\pm$ 0.036 χ^2 /NDF: 20610.2/97

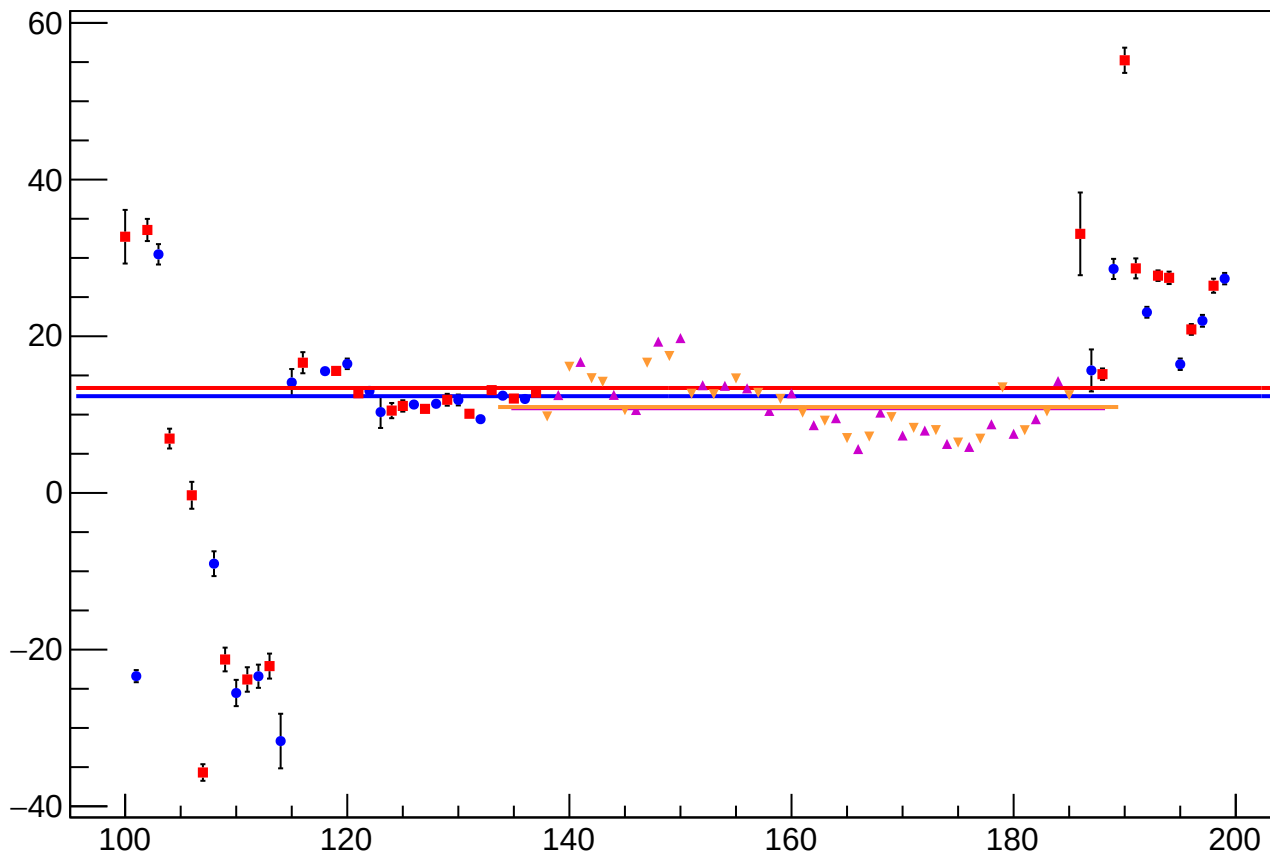
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.570 ± 0.173 $\chi^2/\text{NDF}: 792.6/22$
 Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$
 Right Out: -2.486 ± 0.151 $\chi^2/\text{NDF}: 2923.6/26$
 Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$
 Right: -1.159 ± 0.114 $\chi^2/\text{NDF}: 3893.6/49$
 In: -5.400 ± 0.064 $\chi^2/\text{NDF}: 5562.7/45$
 Out: -5.183 ± 0.062 $\chi^2/\text{NDF}: 7288.7/51$
 All: -5.287 ± 0.044 $\chi^2/\text{NDF}: 12857.4/97$

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: 13.399+/-0.143 χ^2 /NDF: 6110.2/26

Left In: 10.813+/-0.063 χ^2 /NDF:3546.8/22

Left: 10.892+/-0.044 χ^2 /NDF: 6187.5/47

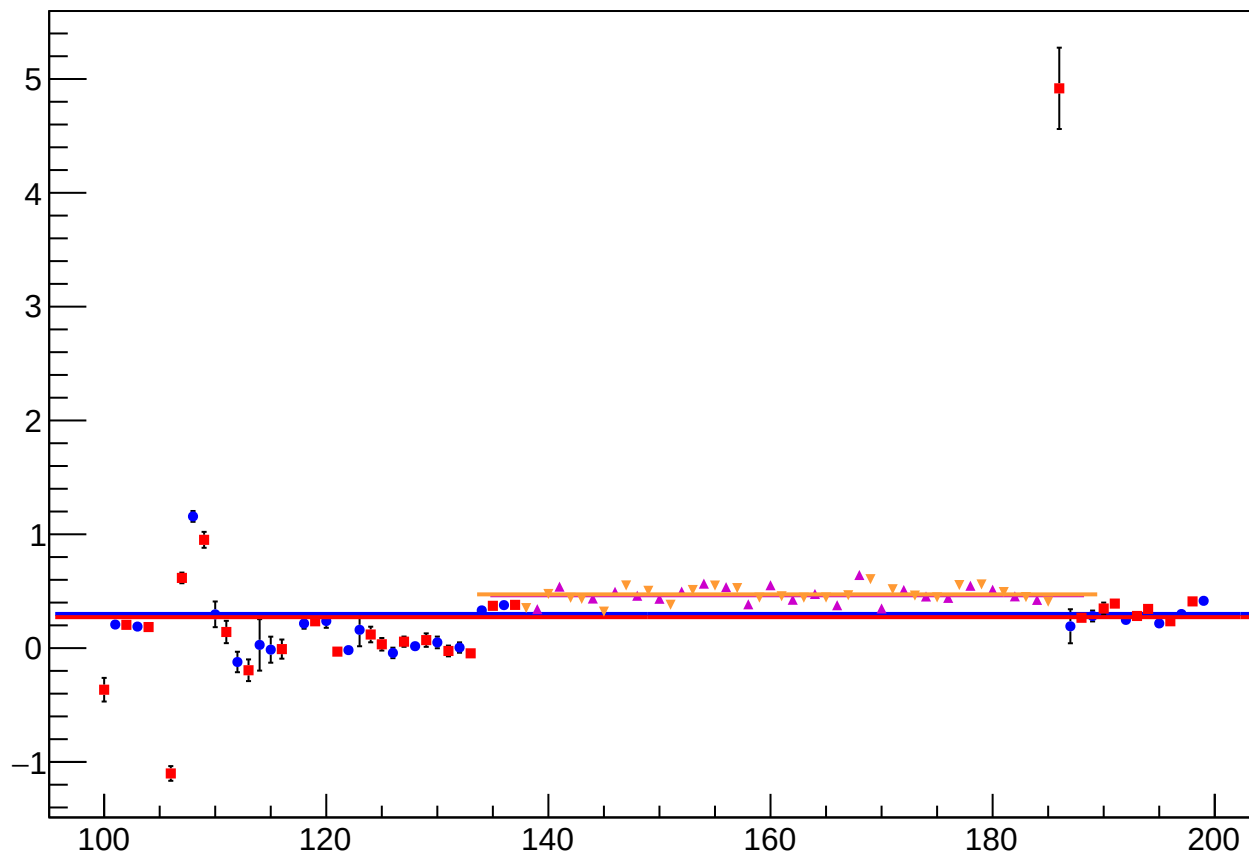
Right: 12.880+/-0.101 χ^2 /NDF: 11018.0/49

In: 11.062+/-0.058 χ^2 /NDF:8523.9/45

Out: 11.346+/-0.056 χ^2 /NDF:8992.5/51

All: 11.208+/-0.040 χ^2 /NDF: 17528.9/97

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.300 ± 0.007 χ^2/NDF : 698.4/22

Left Out: 0.472 ± 0.003 χ^2/NDF : 519.0/24

Right Out: 0.272 ± 0.007 χ^2/NDF : 1219.3/26

Left In: 0.464 ± 0.003 χ^2/NDF : 733.1/22

Left: 0.468 ± 0.002 χ^2/NDF : 1256.2/47

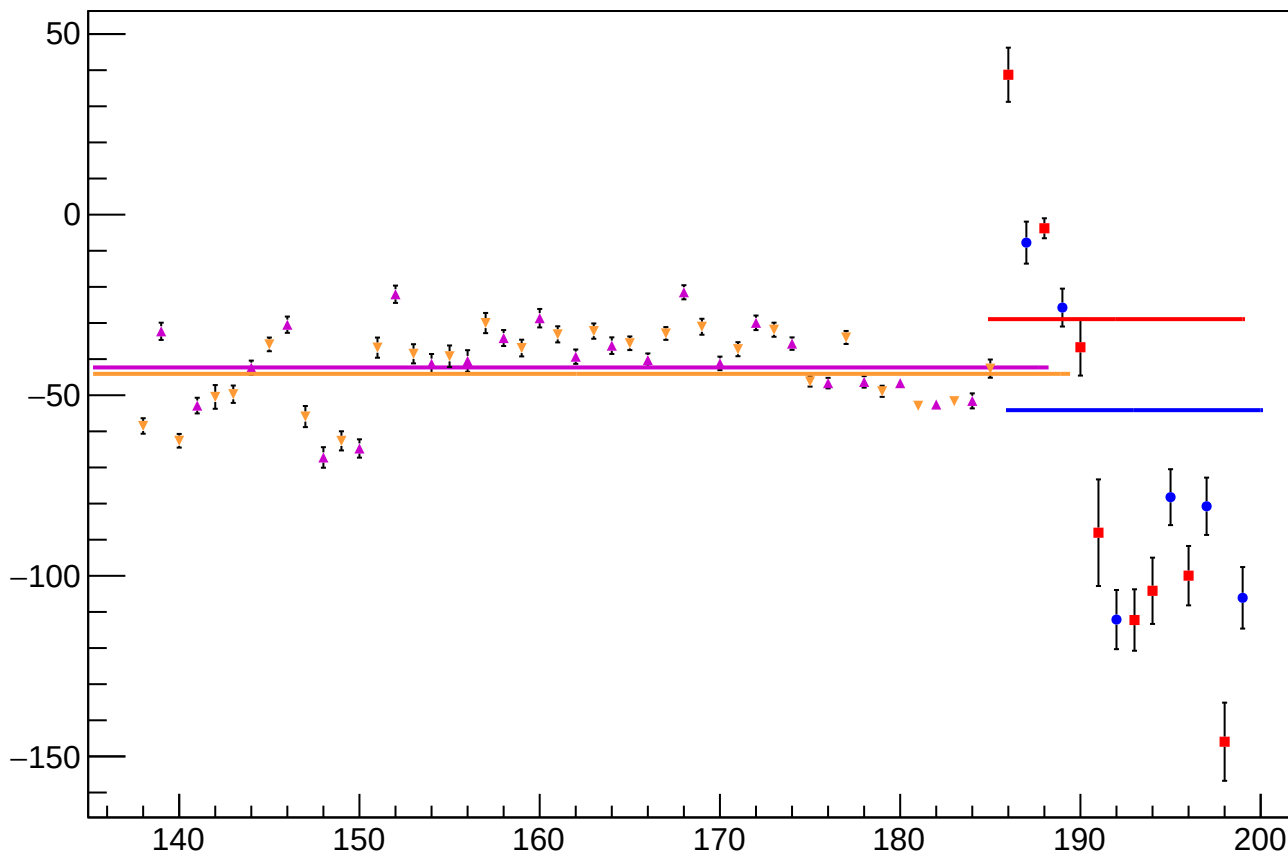
Right: 0.286 ± 0.005 χ^2/NDF : 1927.3/49

In: 0.439 ± 0.003 χ^2/NDF : 1965.3/45

Out: 0.442 ± 0.003 χ^2/NDF : 2542.7/51

All: 0.440 ± 0.002 χ^2/NDF : 4508.5/97

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: -28.930 ± 2.140 χ^2/NDF : 535.9/7

Left In: -42.304 ± 0.399 χ^2/NDF : 640.6/22

Left: -43.214 ± 0.278 χ^2/NDF : 1283.3/47

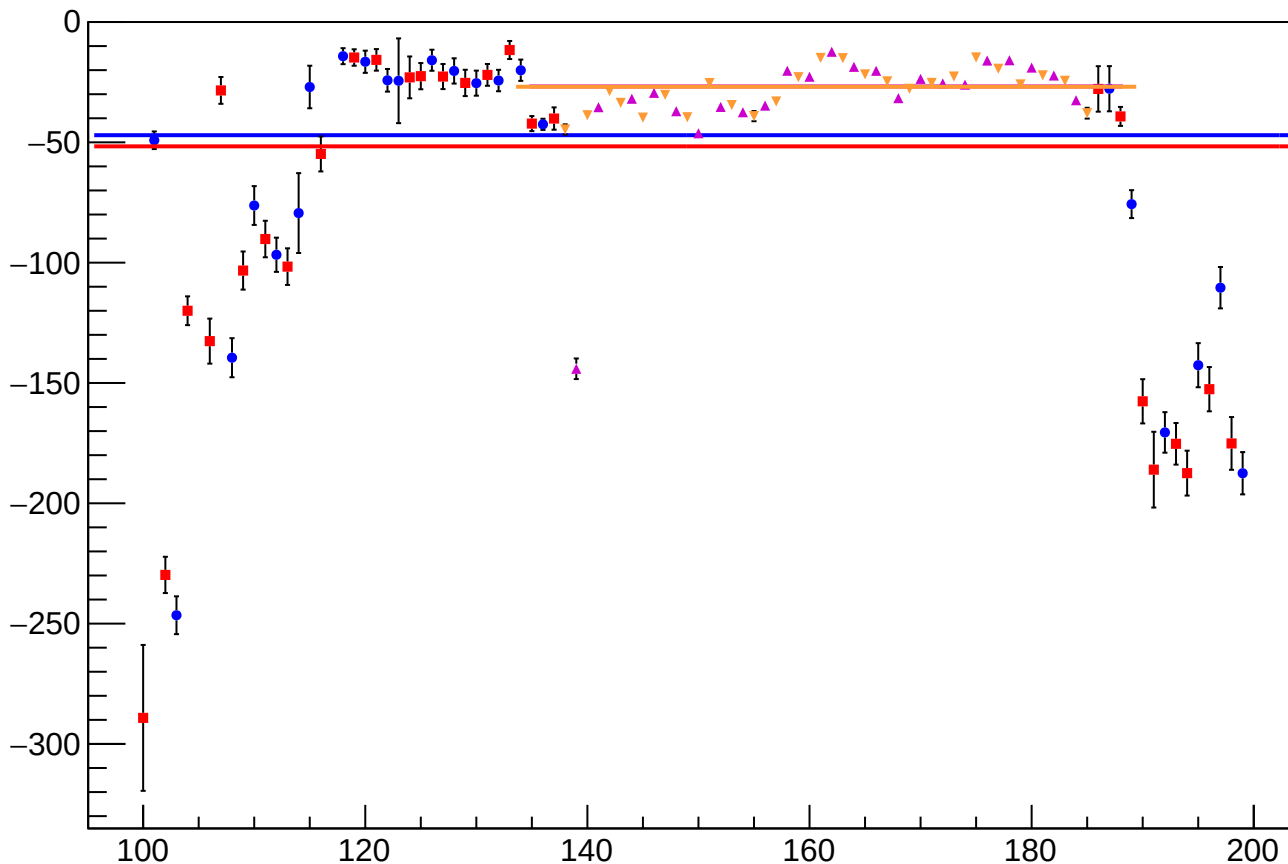
Right: -38.206 ± 1.701 χ^2/NDF : 788.2/13

In: -42.539 ± 0.395 χ^2/NDF : 859.3/28

Out: -43.594 ± 0.382 χ^2/NDF : 1217.0/32

All: -43.084 ± 0.275 χ^2/NDF : 2079.9/61

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: -51.669 ± 1.106 $\chi^2/\text{NDF}: 2287.1/26$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

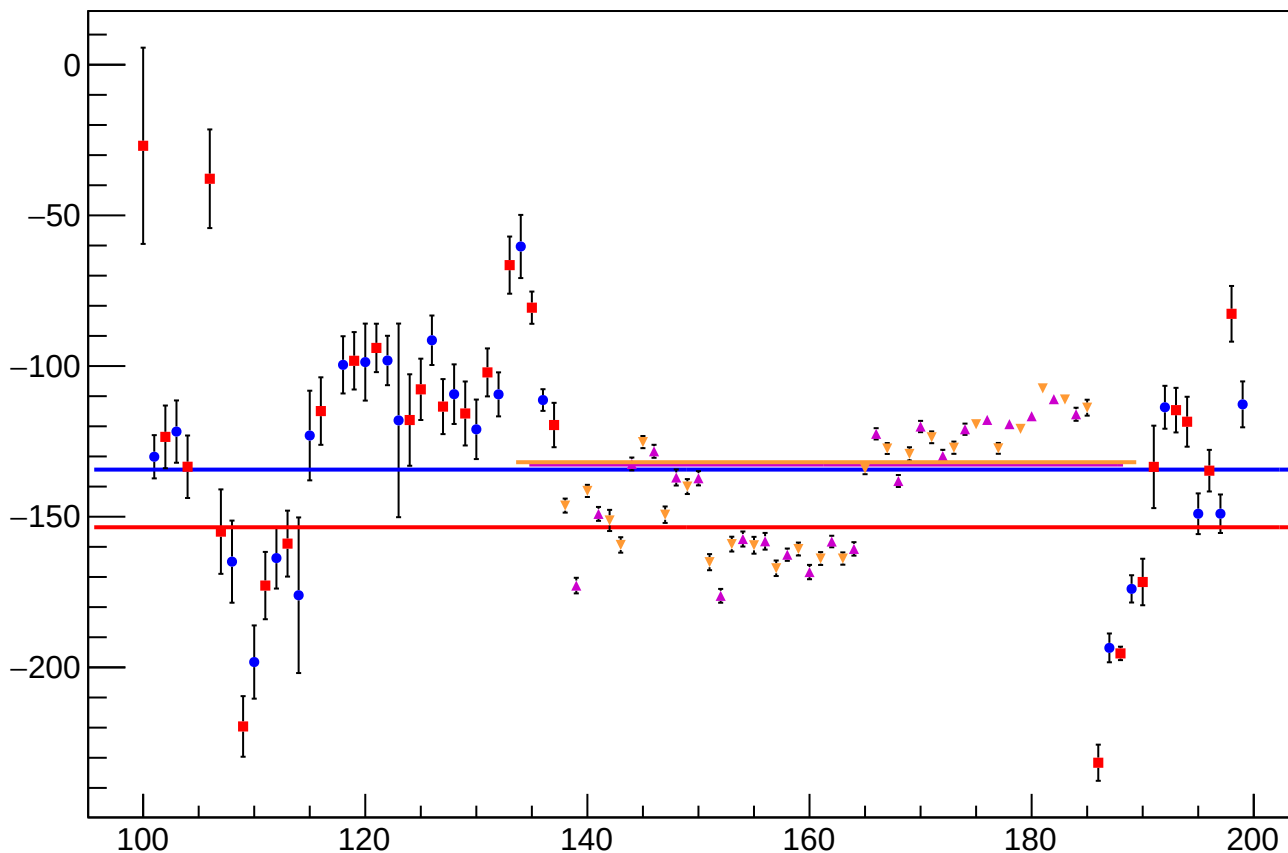
Right: -49.305 ± 0.774 $\chi^2/\text{NDF}: 4131.1/49$

In: -28.455 ± 0.312 $\chi^2/\text{NDF}: 3549.5/45$

Out: -28.774 ± 0.304 $\chi^2/\text{NDF}: 3381.6/51$

All: -28.619 ± 0.218 $\chi^2/\text{NDF}: 6931.6/97$

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: -153.499 ± 1.386 χ^2/NDF : 1256.0/26

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

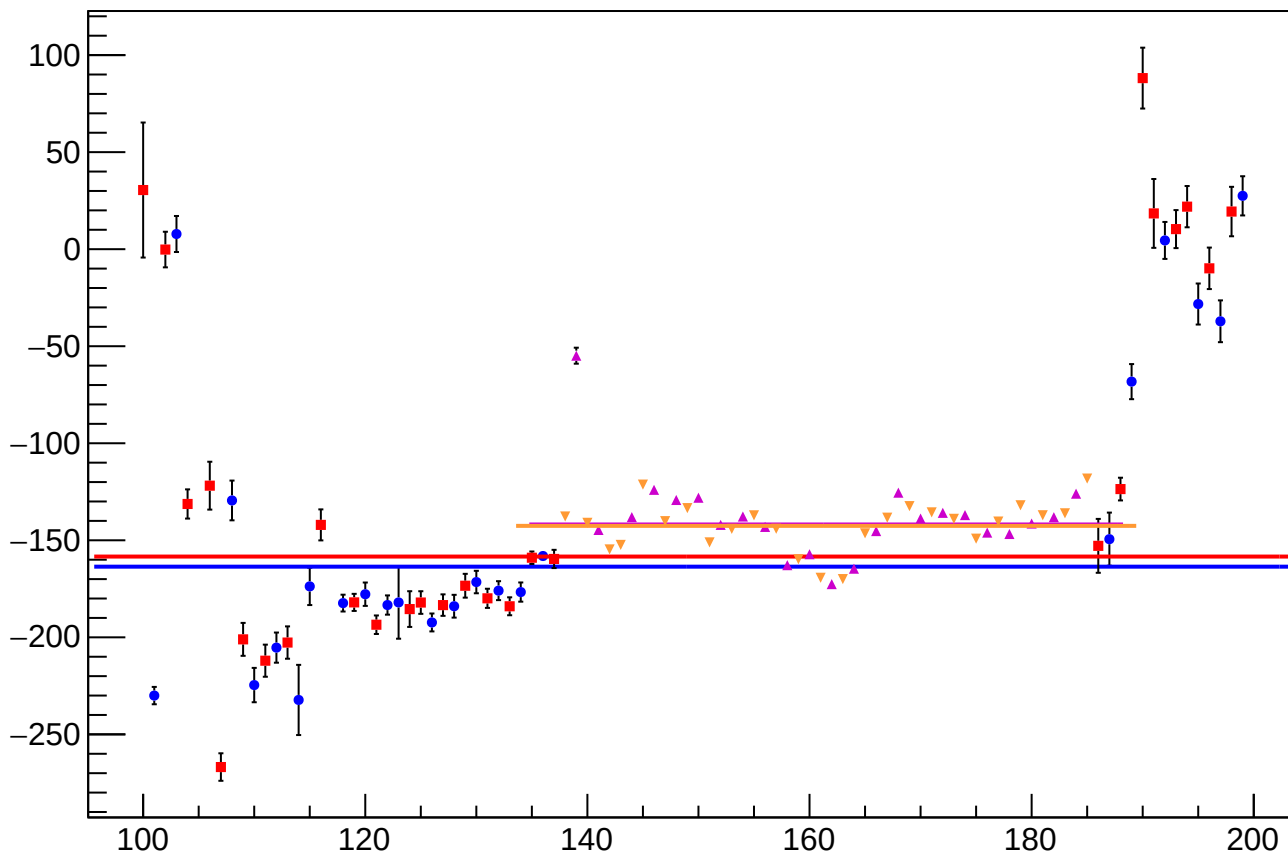
Right: -145.116 ± 1.039 χ^2/NDF : 1821.2/49

In: -132.792 ± 0.387 χ^2/NDF : 2963.0/45

Out: -133.508 ± 0.377 χ^2/NDF : 3920.1/51

All: -133.160 ± 0.270 χ^2/NDF : 6884.8/97

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -163.588 ± 1.224 $\chi^2/\text{NDF}: 1861.1/22$

Left Out: -142.564 ± 0.354 $\chi^2/\text{NDF}: 1147.7/24$

Right Out: -158.380 ± 1.273 $\chi^2/\text{NDF}: 2220.8/26$

Left In: -141.856 ± 0.364 $\chi^2/\text{NDF}: 1544.3/22$

Left: -142.220 ± 0.254 $\chi^2/\text{NDF}: 2693.9/47$

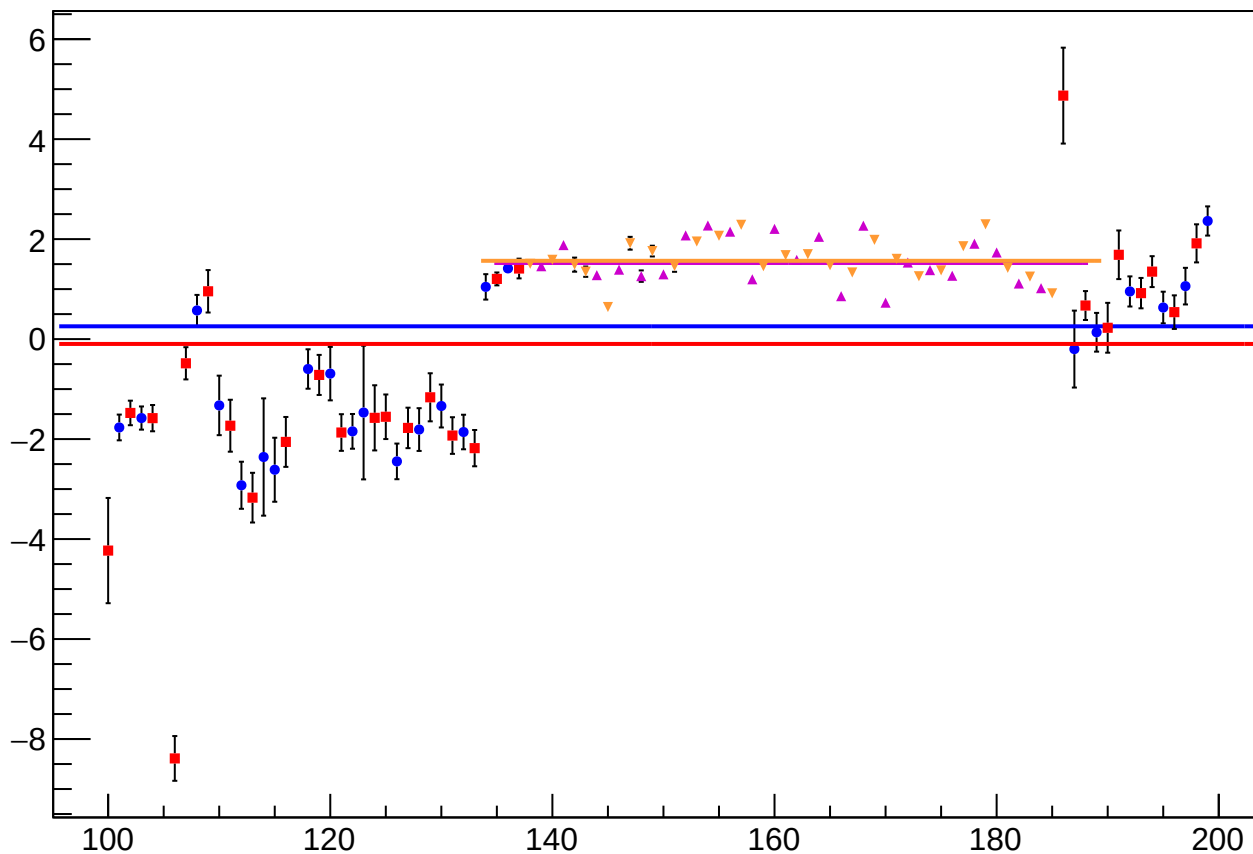
Right: -161.086 ± 0.882 $\chi^2/\text{NDF}: 4090.6/49$

In: -143.620 ± 0.349 $\chi^2/\text{NDF}: 3695.0/45$

Out: -143.700 ± 0.341 $\chi^2/\text{NDF}: 3511.9/51$

All: -143.661 ± 0.244 $\chi^2/\text{NDF}: 7206.9/97$

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: -0.097 $\pm$ 0.063 χ^2 /NDF: 887.3/26

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

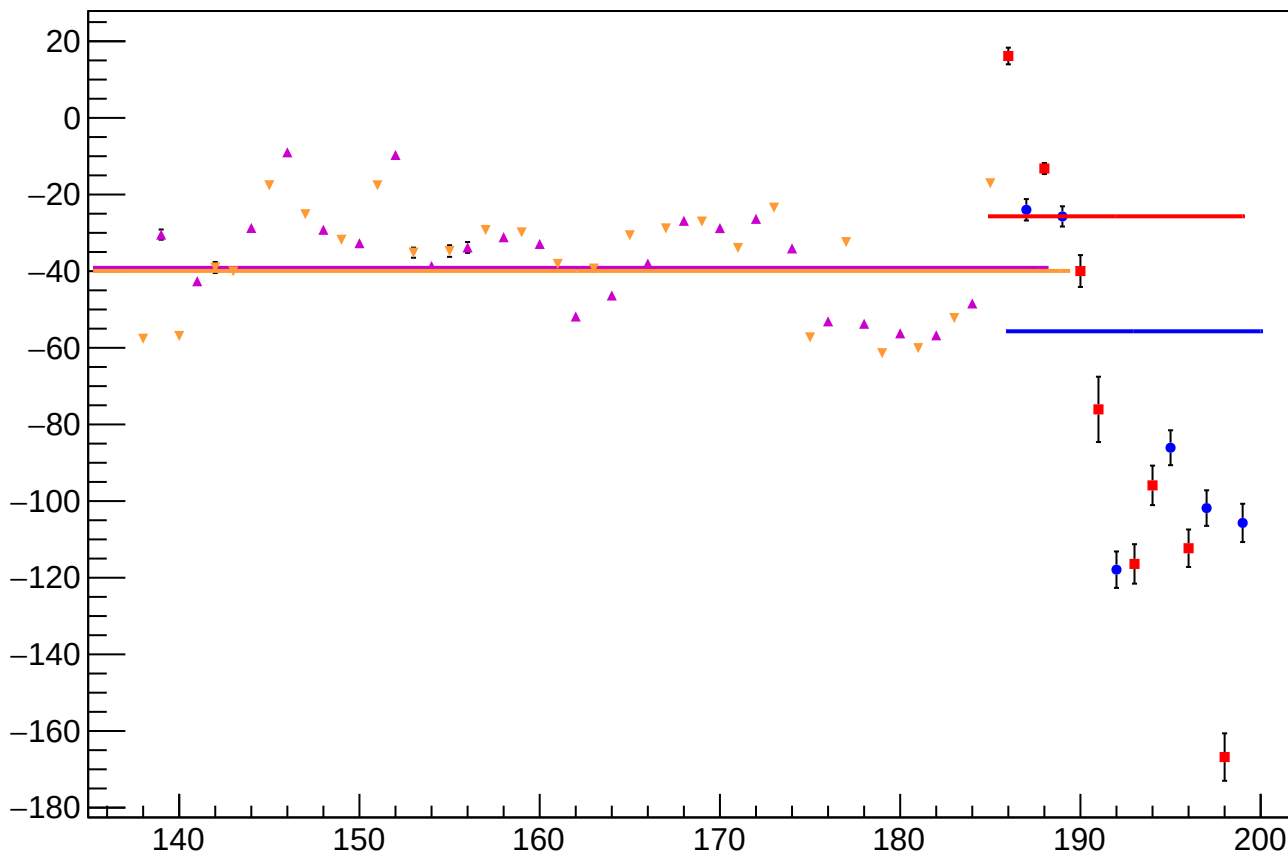
Right: 0.085 $\pm$ 0.044 χ^2 /NDF: 1500.3/49

In: 1.436 $\pm$ 0.016 χ^2 /NDF:1739.0/45

Out: 1.462 $\pm$ 0.016 χ^2 /NDF:2089.9/51

All: 1.449 $\pm$ 0.011 χ^2 /NDF: 3830.4/97

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -55.687 ± 1.490 χ^2/NDF : 672.4/5

Left Out: -39.935 ± 0.153 χ^2/NDF : 9806.5/24

Right Out: -25.686 ± 1.049 χ^2/NDF : 1821.9/7

Left In: -39.137 ± 0.155 χ^2/NDF : 8534.5/22

Left: -39.540 ± 0.109 χ^2/NDF : 18354.5/47

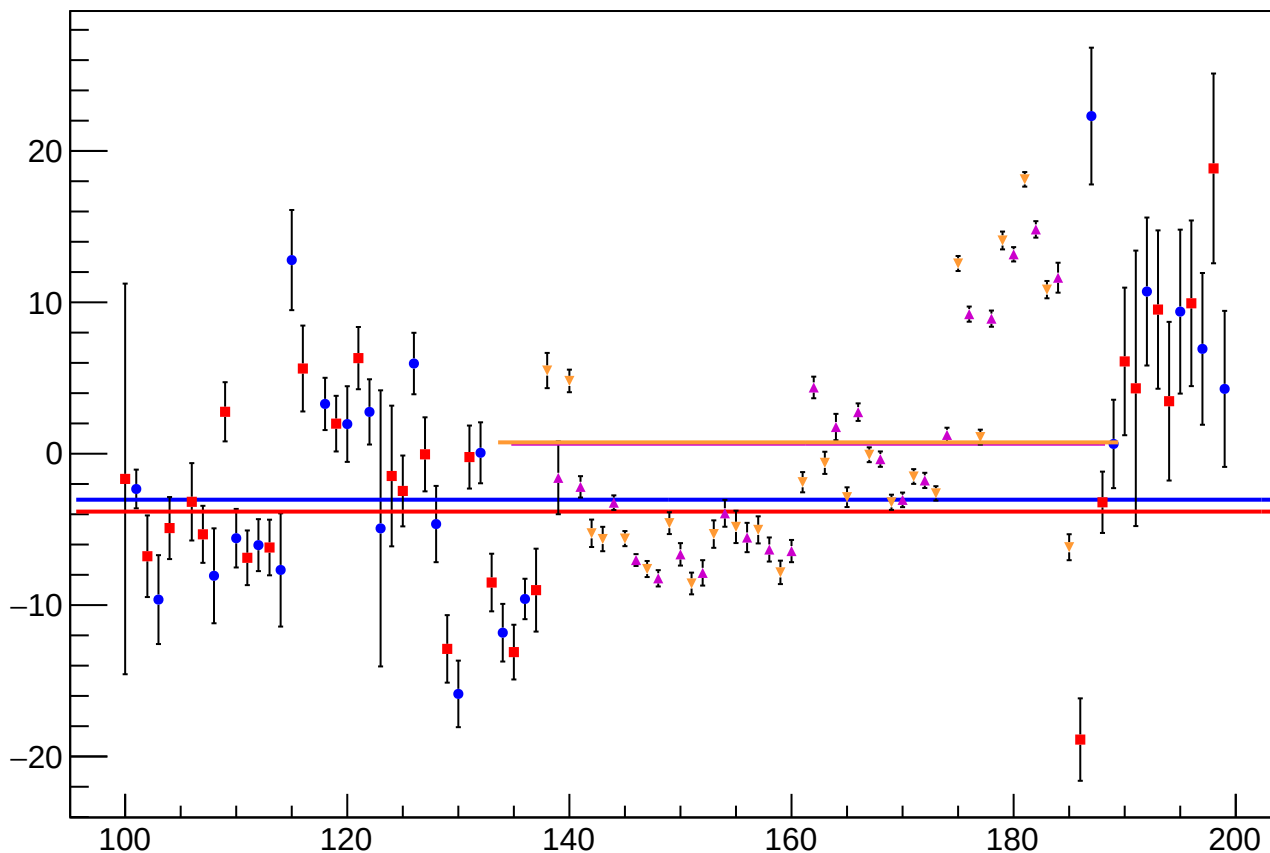
Right: -35.625 ± 0.858 χ^2/NDF : 2765.4/13

In: -39.314 ± 0.154 χ^2/NDF : 9329.0/28

Out: -39.637 ± 0.152 χ^2/NDF : 11809.1/32

All: -39.478 ± 0.108 χ^2/NDF : 21140.3/61

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: -3.824 ± 0.474 $\chi^2/\text{NDF}: 185.6/26$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

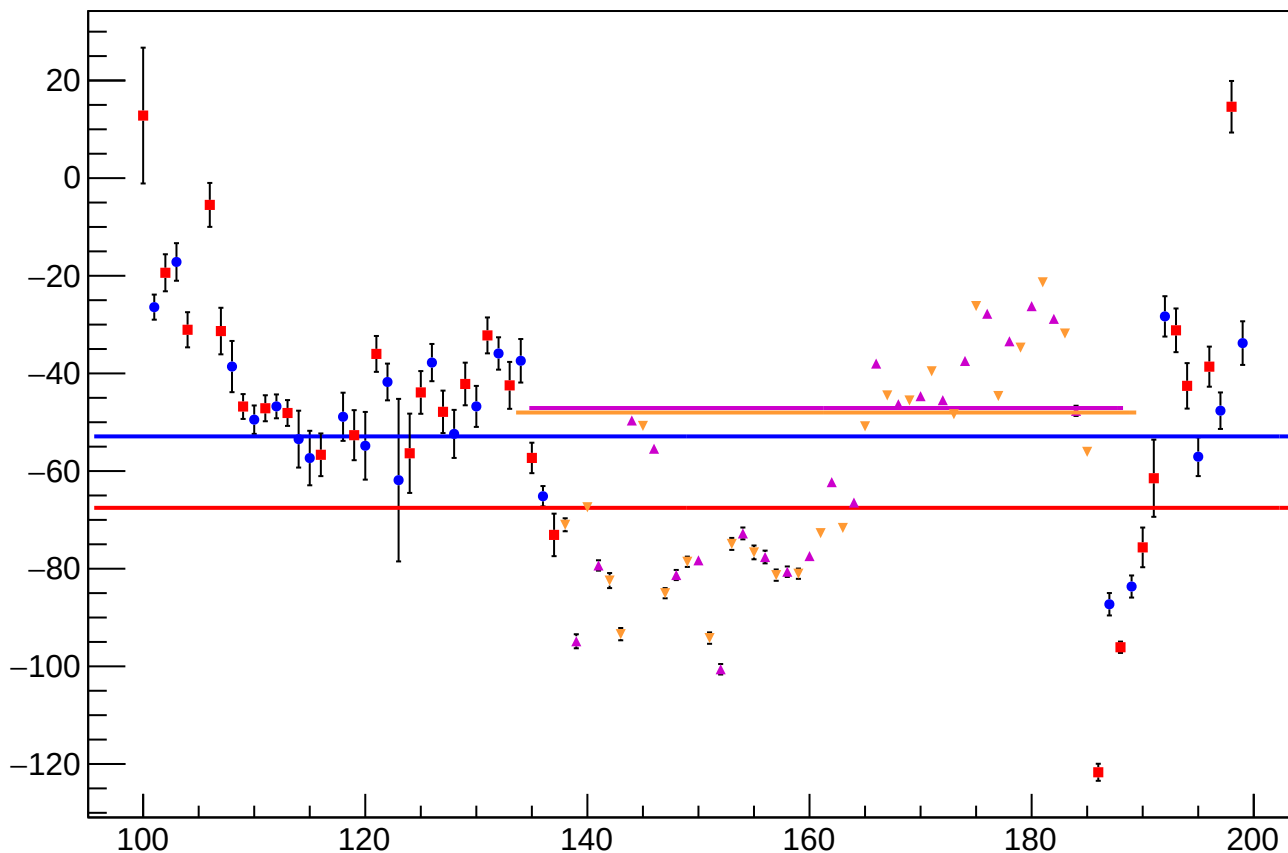
Right: -3.436 ± 0.338 $\chi^2/\text{NDF}: 402.9/49$

In: 0.428 ± 0.120 $\chi^2/\text{NDF}: 3609.3/45$

Out: 0.456 ± 0.120 $\chi^2/\text{NDF}: 4243.4/51$

All: 0.442 ± 0.085 $\chi^2/\text{NDF}: 7852.7/97$

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: -67.533 ± 0.616 χ^2/NDF : 2990.5/26

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

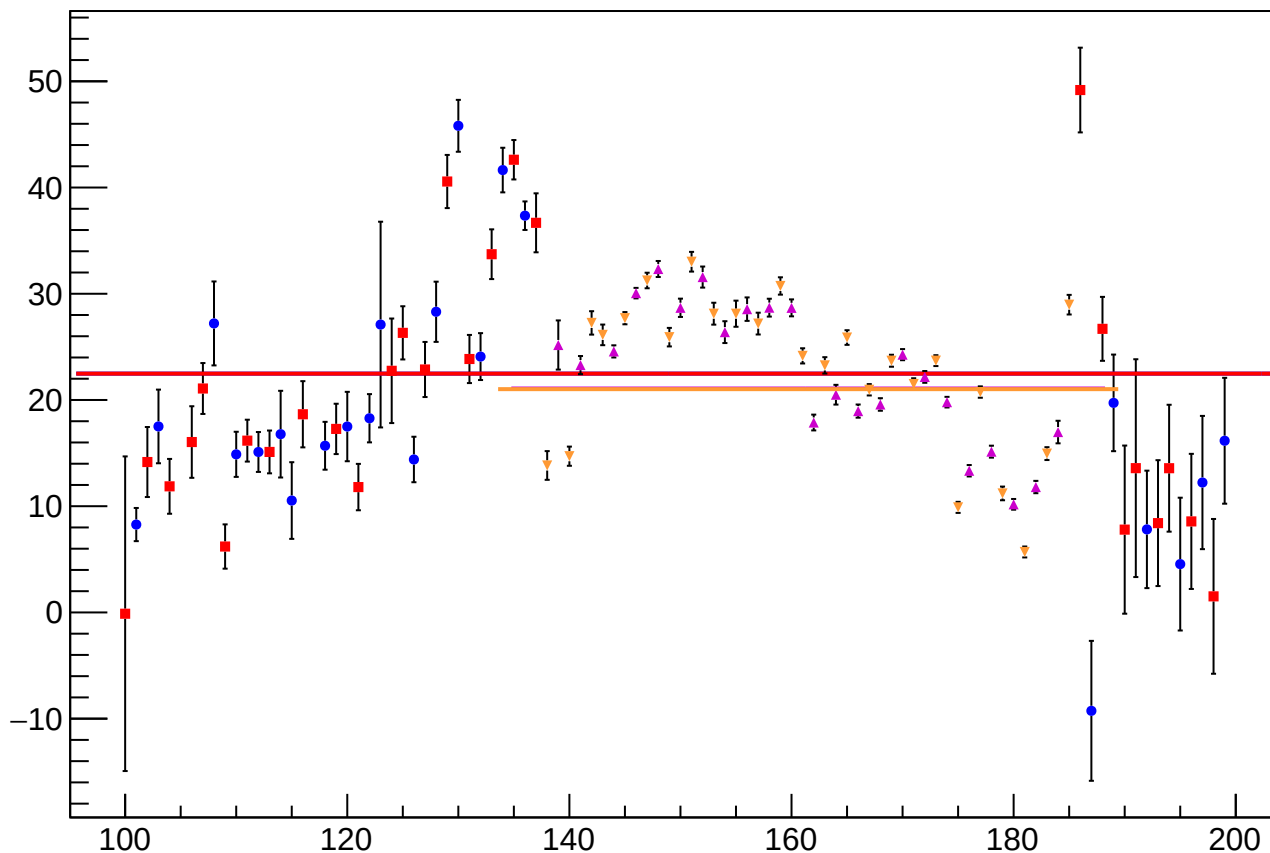
Right: -61.391 ± 0.469 χ^2/NDF : 4001.3/49

In: -47.340 ± 0.152 χ^2/NDF : 16350.9/45

Out: -49.165 ± 0.150 χ^2/NDF : 20884.9/51

All: -48.264 ± 0.107 χ^2/NDF : 37308.8/97

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: 22.480 $\pm$ 0.547 χ^2 /NDF: 438.3/26

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

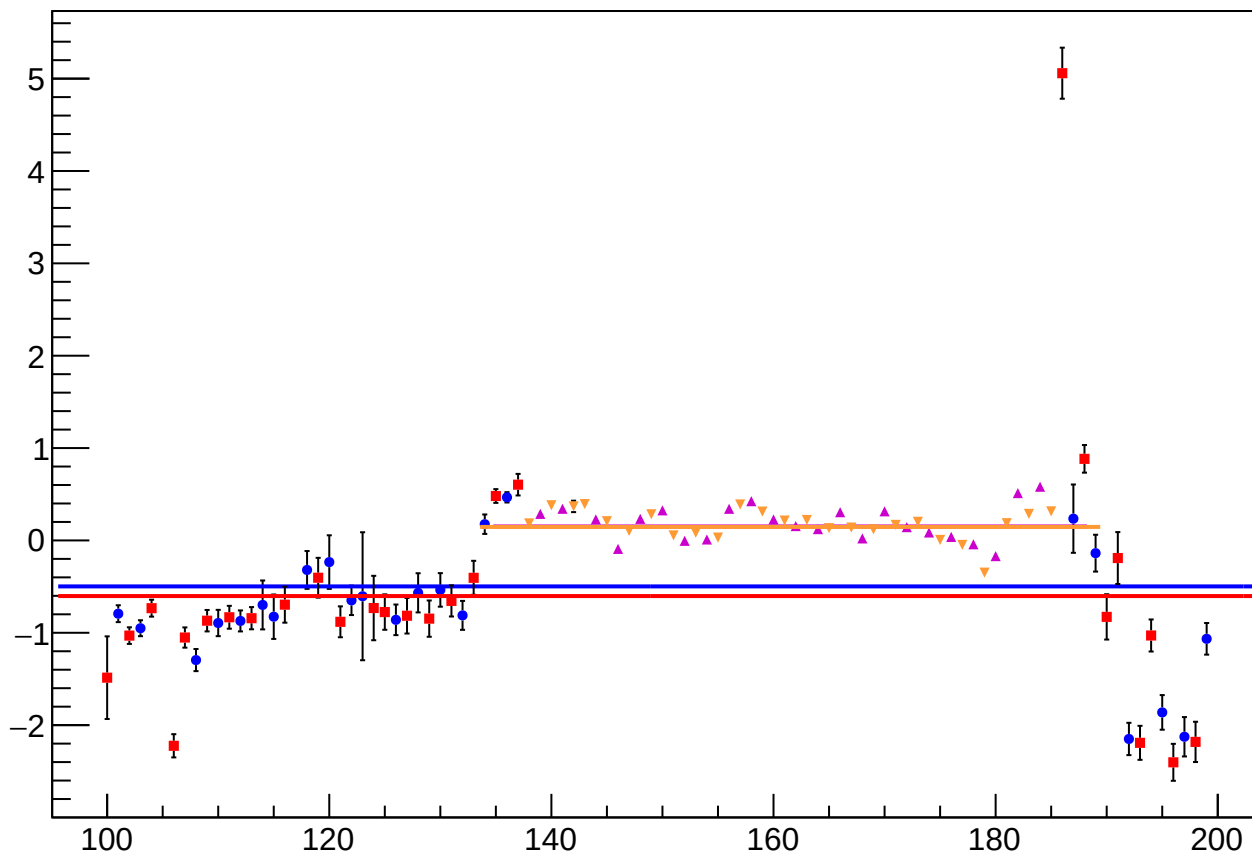
Right: 22.481 $\pm$ 0.386 χ^2 /NDF: 939.5/49

In: 21.165 $\pm$ 0.135 χ^2 /NDF:2680.6/45

Out: 21.108 $\pm$ 0.135 χ^2 /NDF:3244.2/51

All: 21.137 $\pm$ 0.095 χ^2 /NDF: 5924.9/97

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: -0.602 ± 0.028 χ^2/NDF : 1286.4/26

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

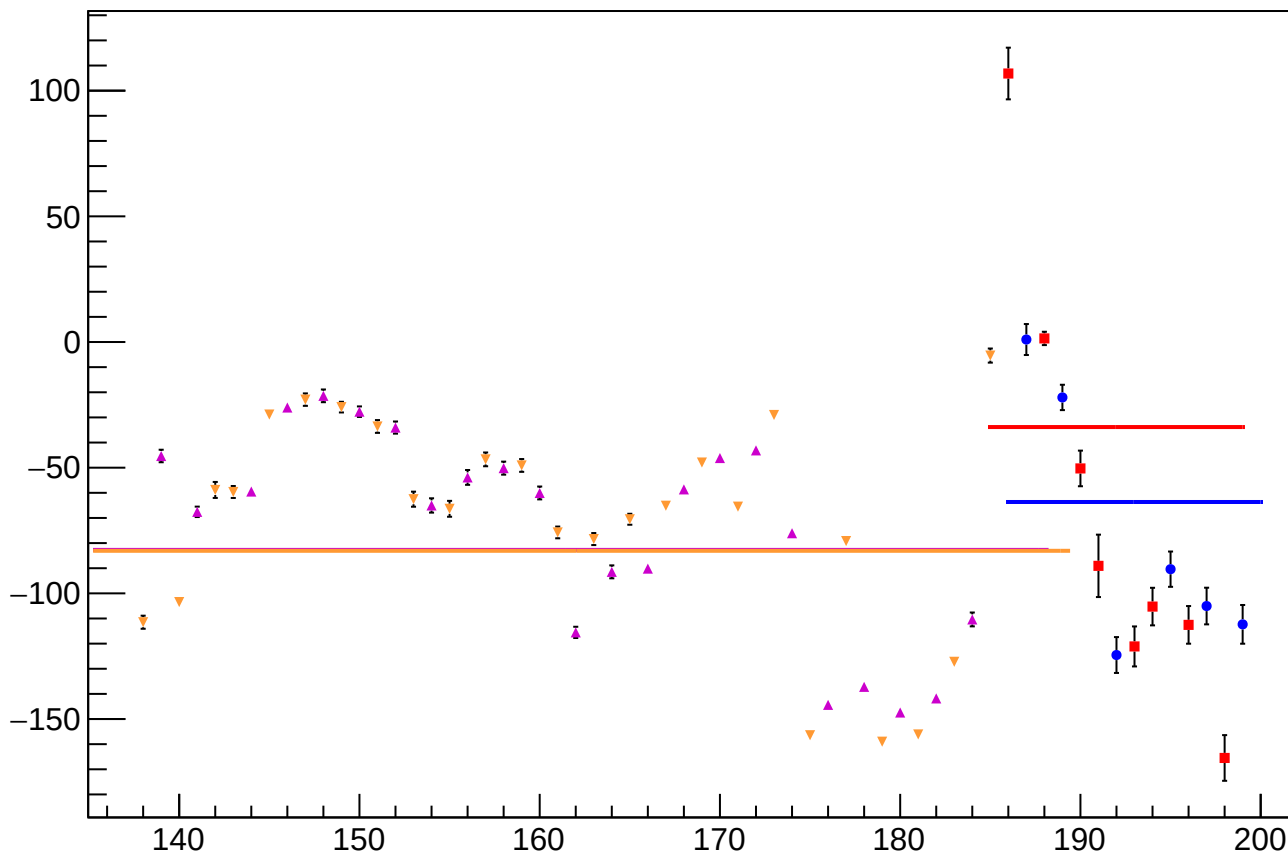
Right: -0.551 ± 0.020 χ^2/NDF : 1965.9/49

In: 0.120 ± 0.006 χ^2/NDF : 2042.9/45

Out: 0.109 ± 0.006 χ^2/NDF : 2583.2/51

All: 0.114 ± 0.004 χ^2/NDF : 4627.4/97

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -63.648 ± 2.661 χ^2/NDF : 337.5/5

Left Out: -83.068 ± 0.406 χ^2/NDF : 13817.3/24

Right Out: -33.831 ± 2.035 χ^2/NDF : 920.9/7

Left In: -82.711 ± 0.415 χ^2/NDF : 10841.4/22

Left: -82.893 ± 0.290 χ^2/NDF : 24659.1/47

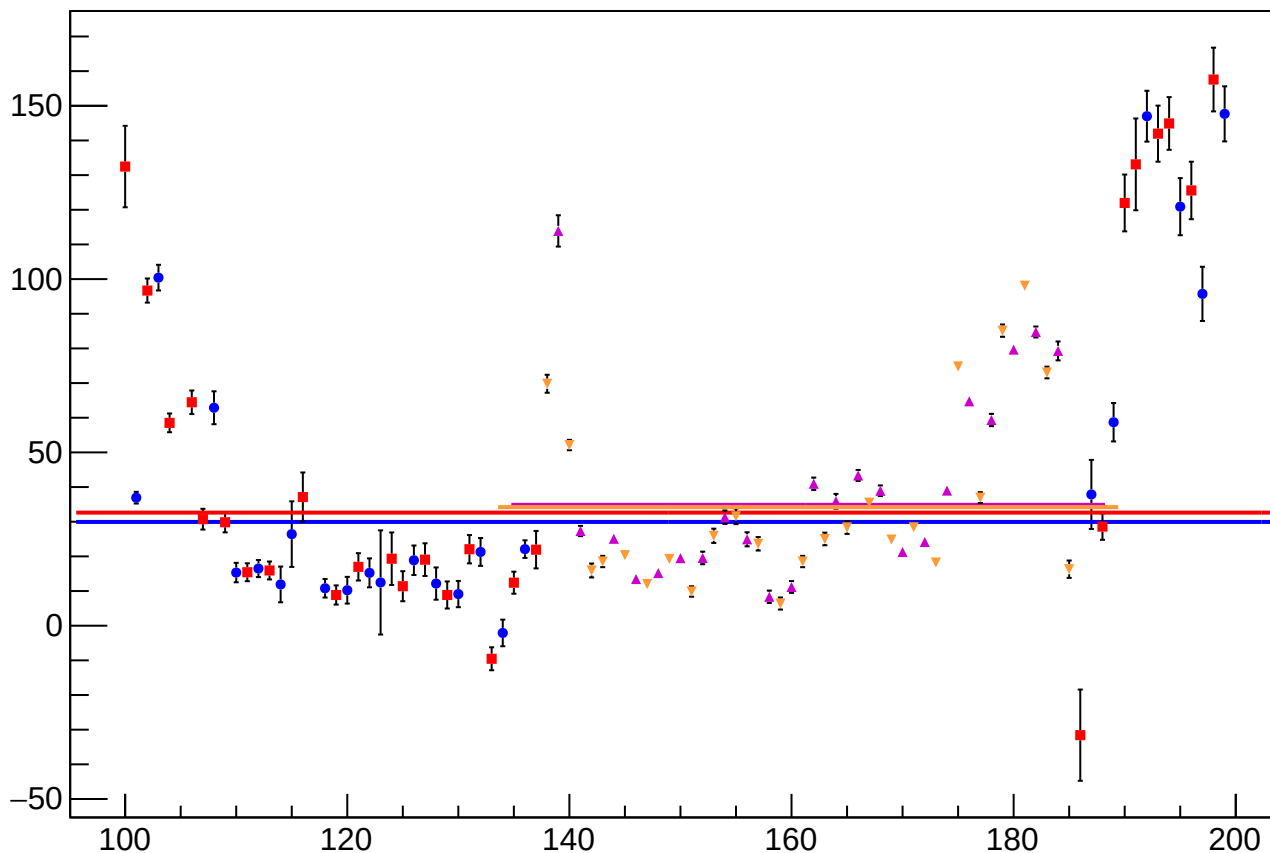
Right: -44.832 ± 1.616 χ^2/NDF : 1337.6/13

In: -82.258 ± 0.410 χ^2/NDF : 11229.0/28

Out: -81.180 ± 0.398 χ^2/NDF : 15301.4/32

All: -81.703 ± 0.286 χ^2/NDF : 26533.9/61

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 29.938 ± 0.780 $\chi^2/\text{NDF}: 1417.5/22$

Left Out: 34.219 ± 0.320 $\chi^2/\text{NDF}: 6192.6/24$

Right Out: 32.631 ± 0.773 $\chi^2/\text{NDF}: 1965.4/26$

Left In: 34.870 ± 0.329 $\chi^2/\text{NDF}: 4716.1/22$

Left: 34.535 ± 0.230 $\chi^2/\text{NDF}: 10910.7/47$

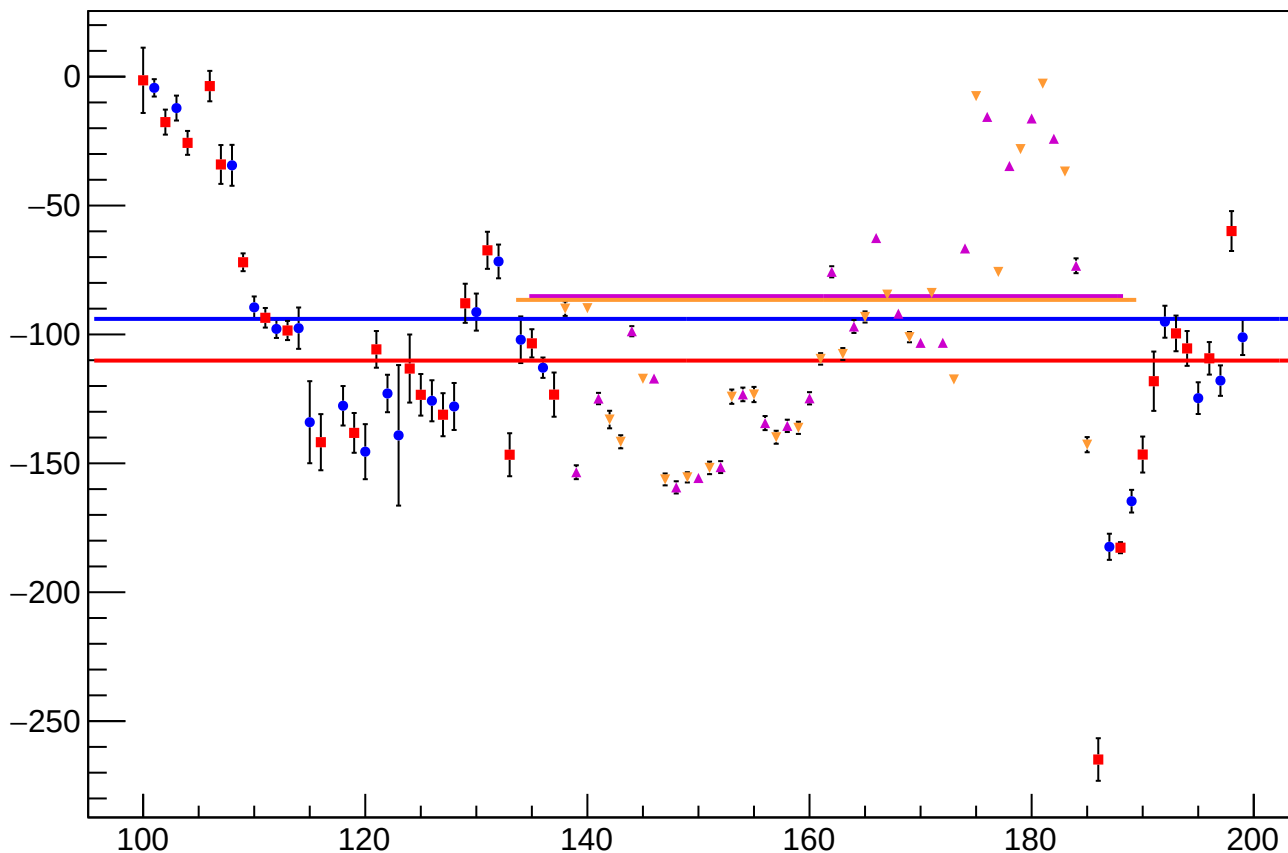
Right: 31.298 ± 0.549 $\chi^2/\text{NDF}: 3389.0/49$

In: 34.125 ± 0.303 $\chi^2/\text{NDF}: 6167.6/45$

Out: 33.986 ± 0.296 $\chi^2/\text{NDF}: 8161.6/51$

All: 34.054 ± 0.212 $\chi^2/\text{NDF}: 14329.3/97$

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -93.969 ± 1.204 $\chi^2/\text{NDF}: 1791.3/22$

Left Out: -86.595 ± 0.408 $\chi^2/\text{NDF}: 14515.7/24$

Right Out: -110.139 ± 1.060 $\chi^2/\text{NDF}: 3015.6/26$

Left In: -85.134 ± 0.415 $\chi^2/\text{NDF}: 12841.3/22$

Left: -85.876 ± 0.291 $\chi^2/\text{NDF}: 27363.3/47$

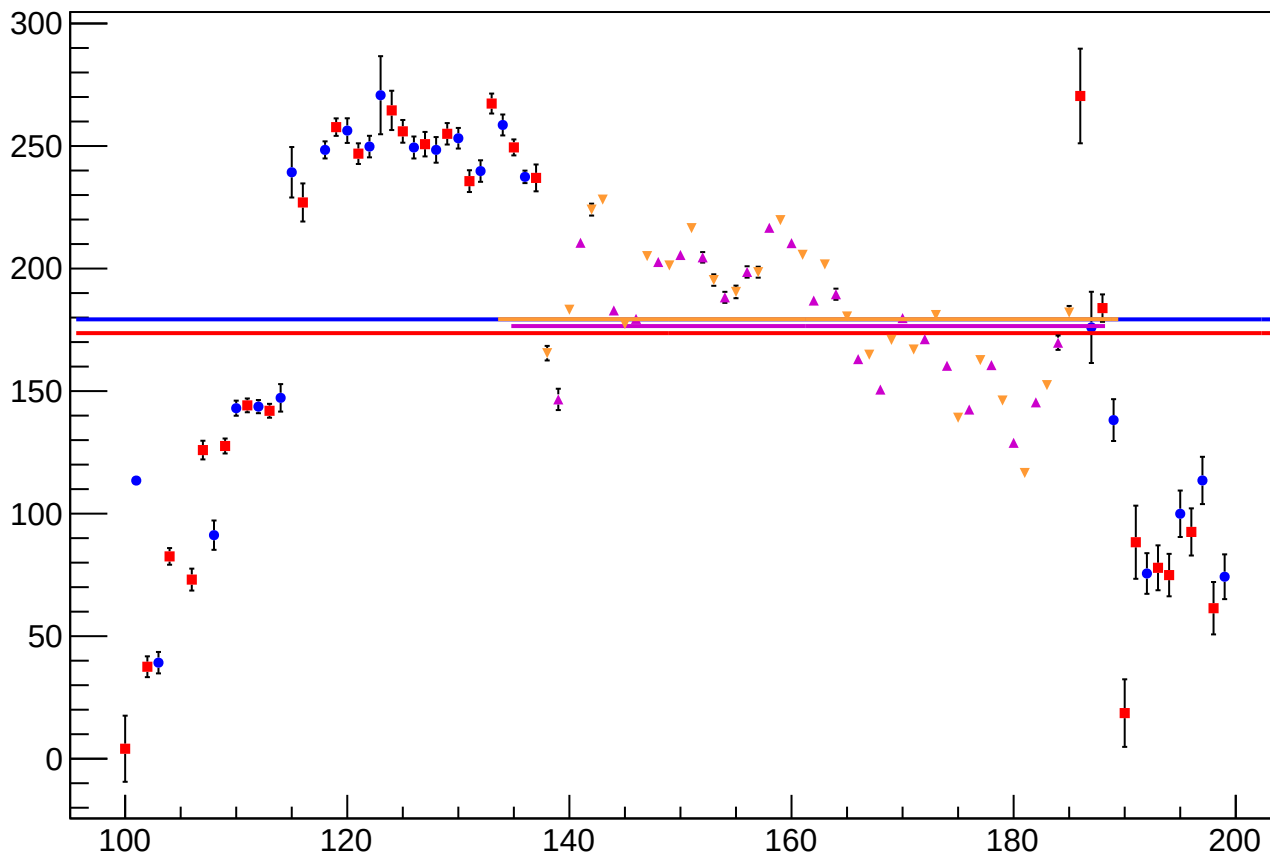
Right: -103.081 ± 0.796 $\chi^2/\text{NDF}: 4908.5/49$

In: -86.072 ± 0.392 $\chi^2/\text{NDF}: 14680.7/45$

Out: -89.639 ± 0.381 $\chi^2/\text{NDF}: 17961.0/51$

All: -87.908 ± 0.273 $\chi^2/\text{NDF}: 32684.2/97$

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: 173.651 ± 0.892 $\chi^2/\text{NDF}: 6965.5/26$

Left In: 176.531 ± 0.371 $\chi^2/\text{NDF}: 4426.0/22$

Left: 177.980 ± 0.259 $\chi^2/\text{NDF}: 10438.0/47$

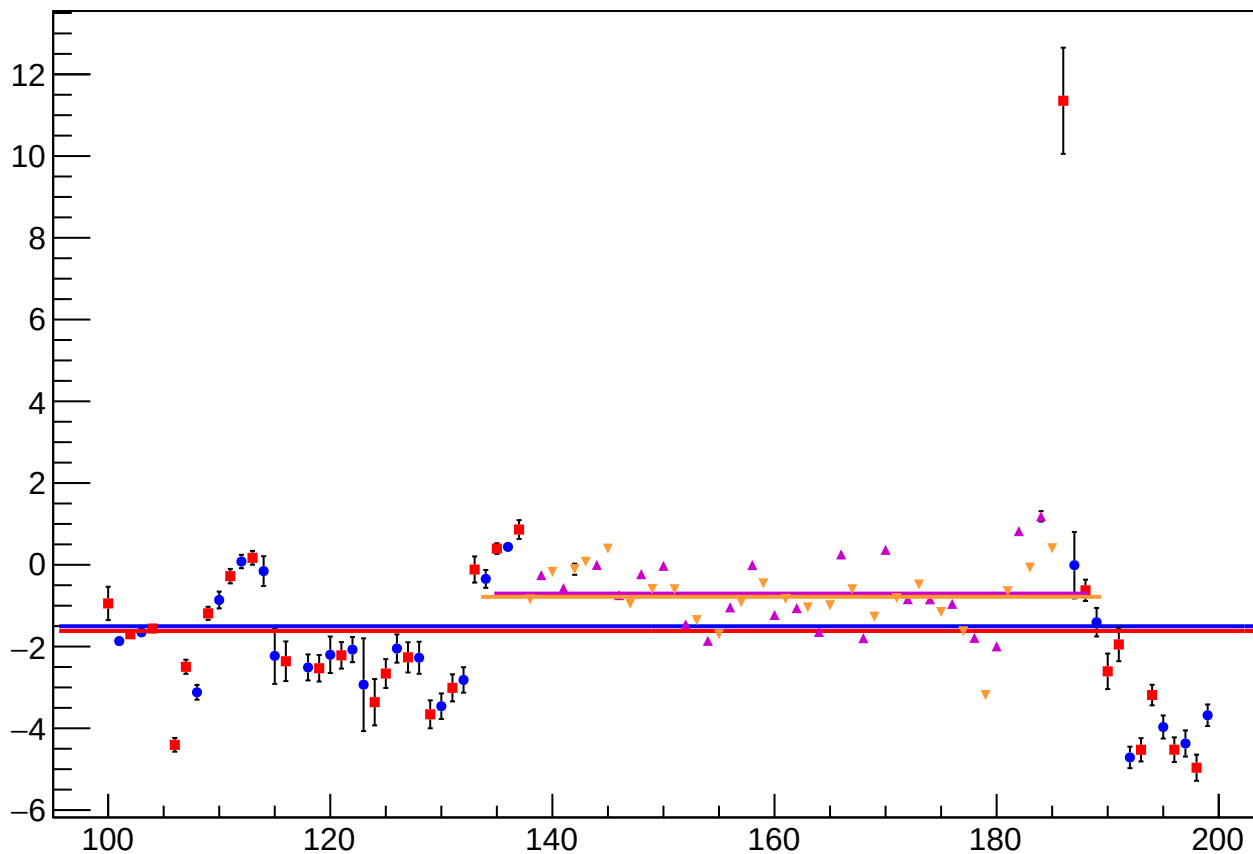
Right: 176.449 ± 0.632 $\chi^2/\text{NDF}: 12752.2/49$

In: 176.933 ± 0.343 $\chi^2/\text{NDF}: 10200.9/45$

Out: 178.552 ± 0.335 $\chi^2/\text{NDF}: 12982.9/51$

All: 177.760 ± 0.240 $\chi^2/\text{NDF}: 23195.2/97$

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.504 ± 0.045 χ^2/NDF : 1038.9/22

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.619 ± 0.043 χ^2/NDF : 1409.7/26

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

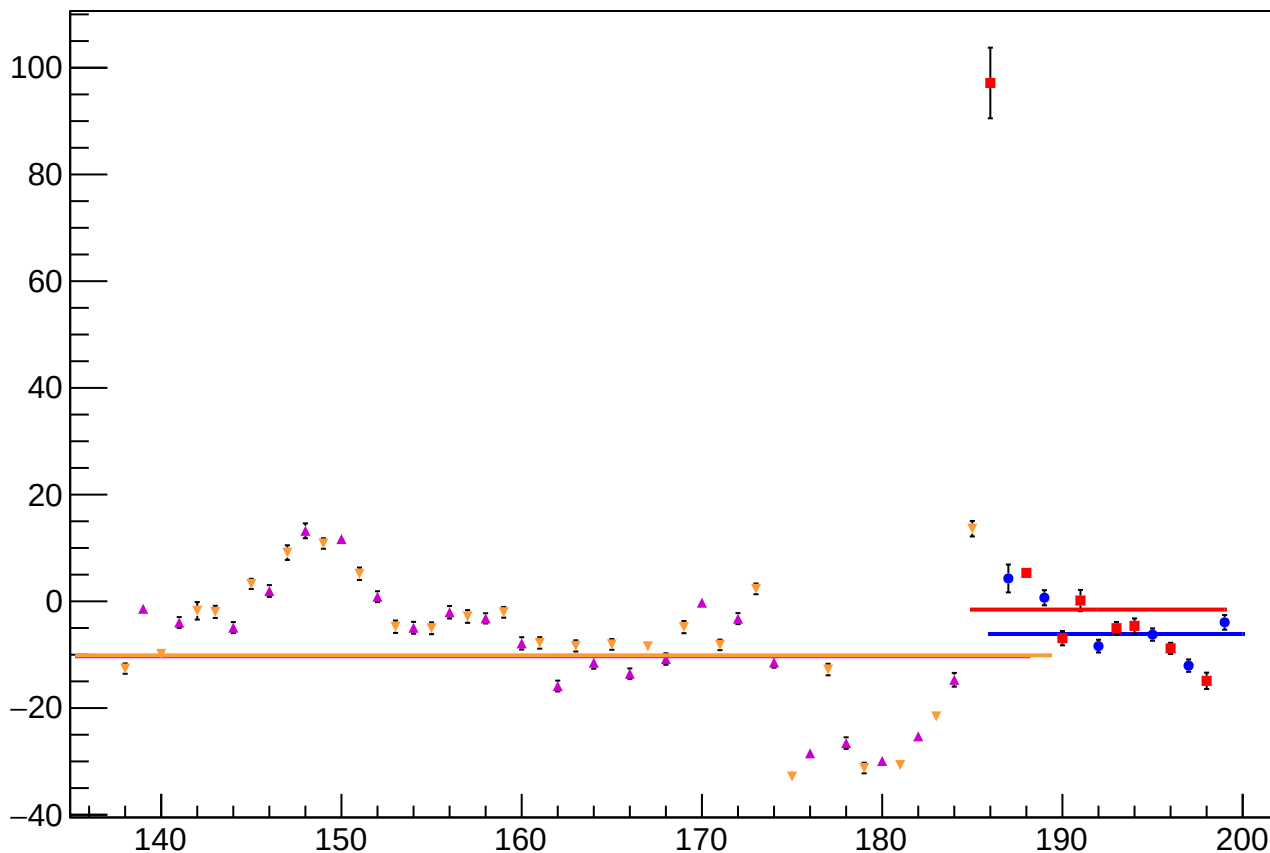
Right: -1.565 ± 0.031 χ^2/NDF : 2452.0/49

In: -0.803 ± 0.016 χ^2/NDF : 3721.4/45

Out: -0.894 ± 0.015 χ^2/NDF : 3515.3/51

All: -0.849 ± 0.011 χ^2/NDF : 7253.4/97

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: -1.546 ± 0.413 $\chi^2/\text{NDF}: 492.3/7$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

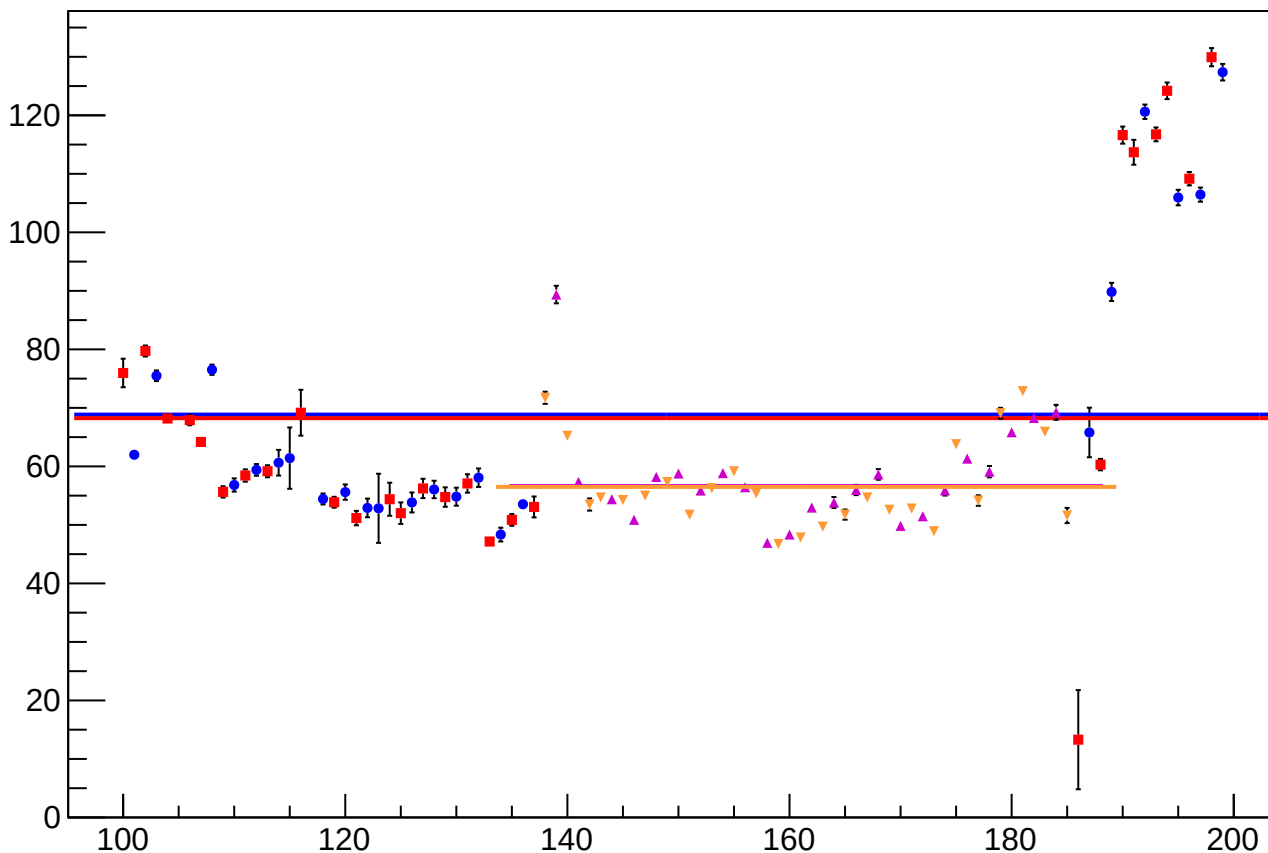
Right: -3.212 ± 0.329 $\chi^2/\text{NDF}: 608.1/13$

In: -9.773 ± 0.192 $\chi^2/\text{NDF}: 3573.1/28$

Out: -8.469 ± 0.181 $\chi^2/\text{NDF}: 4978.7/32$

All: -9.082 ± 0.132 $\chi^2/\text{NDF}: 8576.2/61$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 68.850 $\pm$ 0.240 χ^2 /NDF: 7307.2/22

Left Out: 56.496 $\pm$ 0.159 χ^2 /NDF:1968.0/24

Right Out: 68.238 $\pm$ 0.221 χ^2 /NDF: 10357.2/26

Left In: 56.635 $\pm$ 0.165 χ^2 /NDF:1607.9/22

Left: 56.563 $\pm$ 0.114 χ^2 /NDF: 3576.3/47

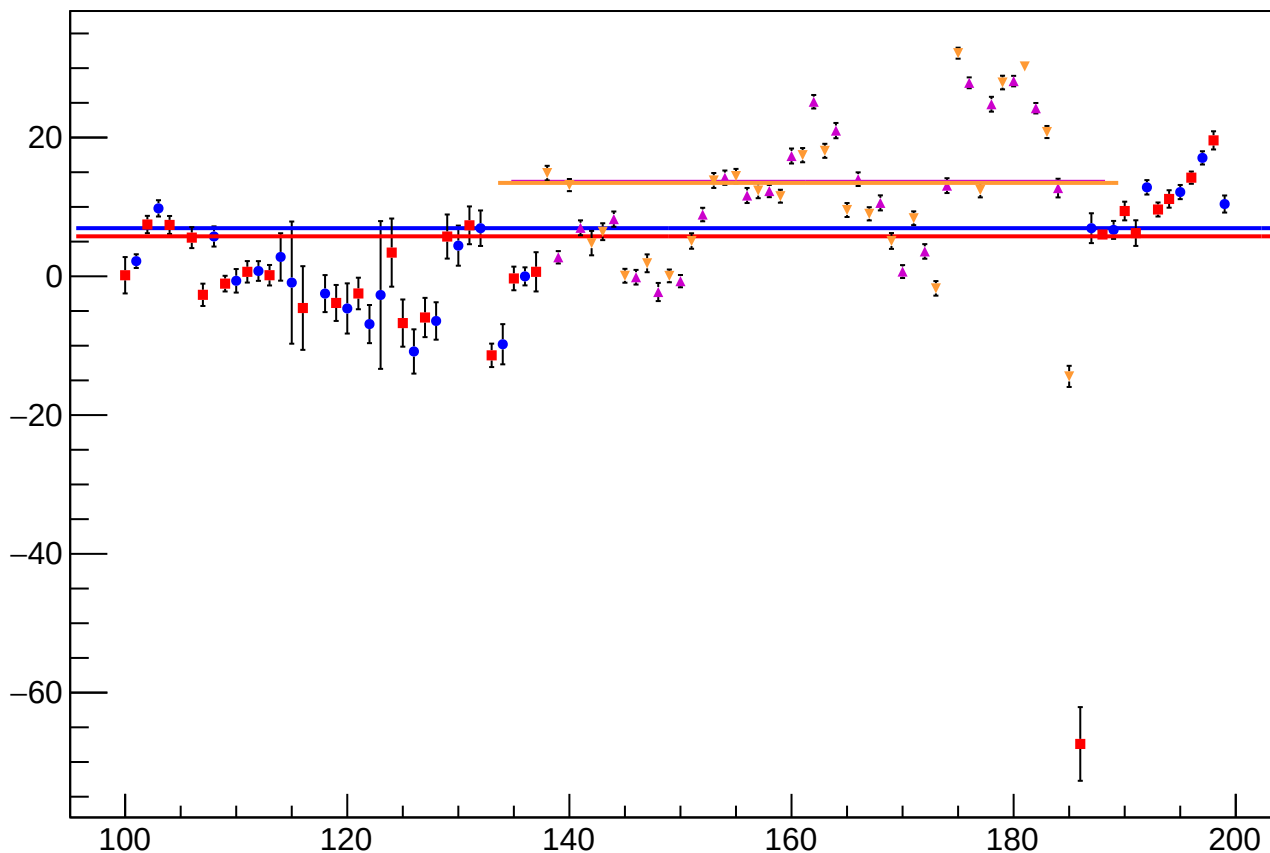
Right: 68.519 $\pm$ 0.163 χ^2 /NDF: 17667.9/49

In: 60.551 $\pm$ 0.136 χ^2 /NDF:10669.4/45

Out: 60.489 $\pm$ 0.129 χ^2 /NDF:14182.8/51

All: 60.519 $\pm$ 0.094 χ^2 /NDF: 24852.3/97

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: 5.762 ± 0.271 χ^2/NDF : 710.8/26

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

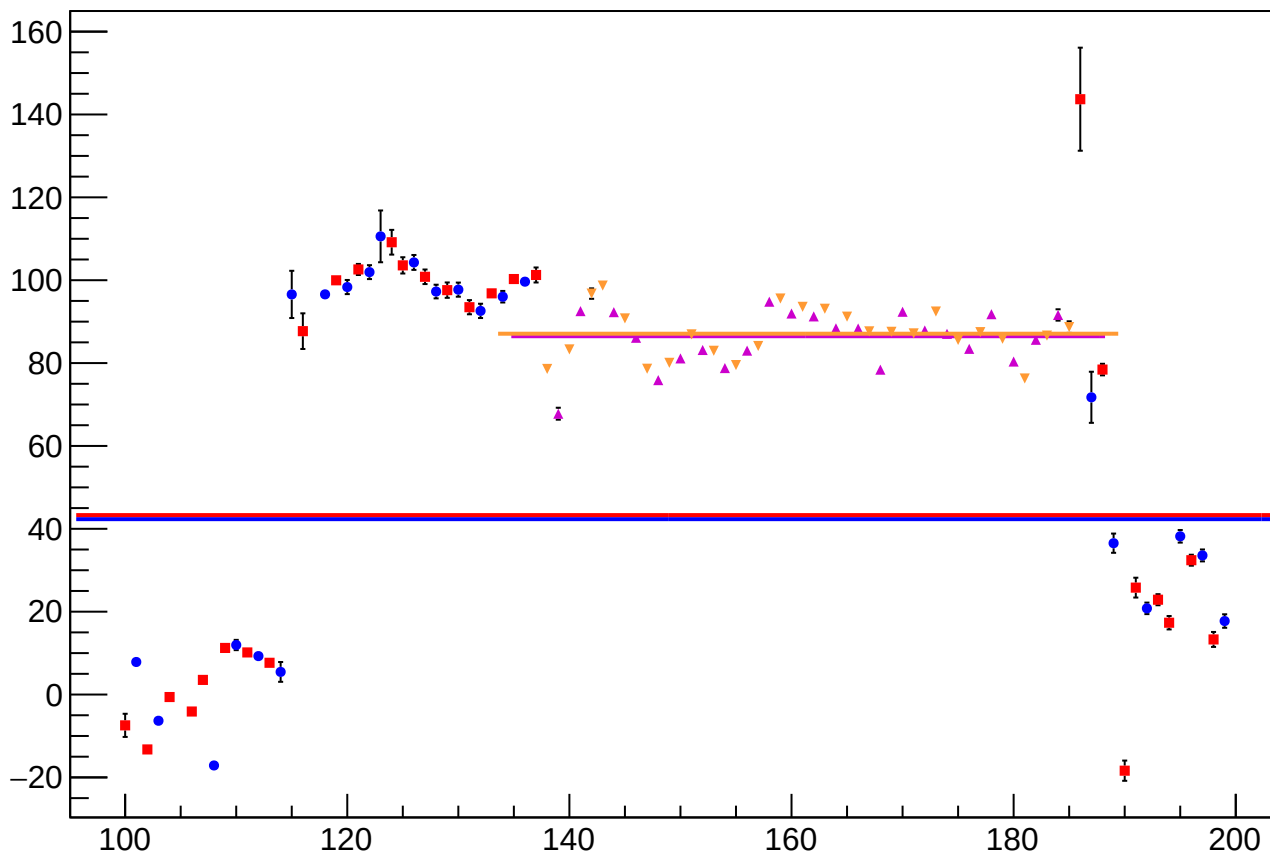
Right: 6.236 ± 0.209 χ^2/NDF : 1134.2/49

In: 11.766 ± 0.174 χ^2/NDF : 3027.5/45

Out: 10.723 ± 0.162 χ^2/NDF : 3966.6/51

All: 11.207 ± 0.118 χ^2/NDF : 7013.4/97

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: 43.309 $\pm$ 0.262 χ^2 /NDF: 30523.1/26

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

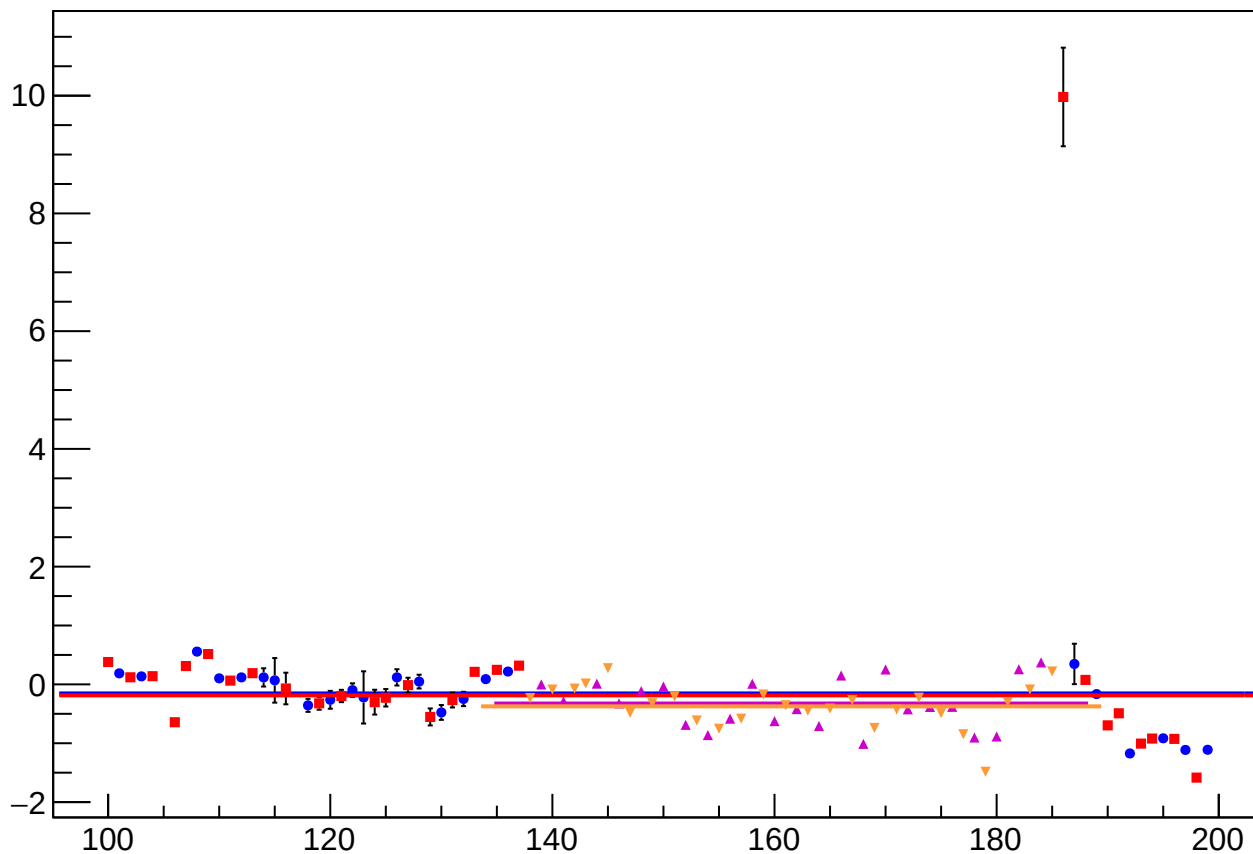
Right: 42.852 $\pm$ 0.191 χ^2 /NDF: 55837.5/49

In: 73.093 $\pm$ 0.154 χ^2 /NDF:43656.3/45

Out: 73.130 $\pm$ 0.148 χ^2 /NDF:50662.1/51

All: 73.112 $\pm$ 0.107 χ^2 /NDF: 94318.3/97

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: -0.187 ± 0.011 χ^2/NDF : 2898.9/26

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

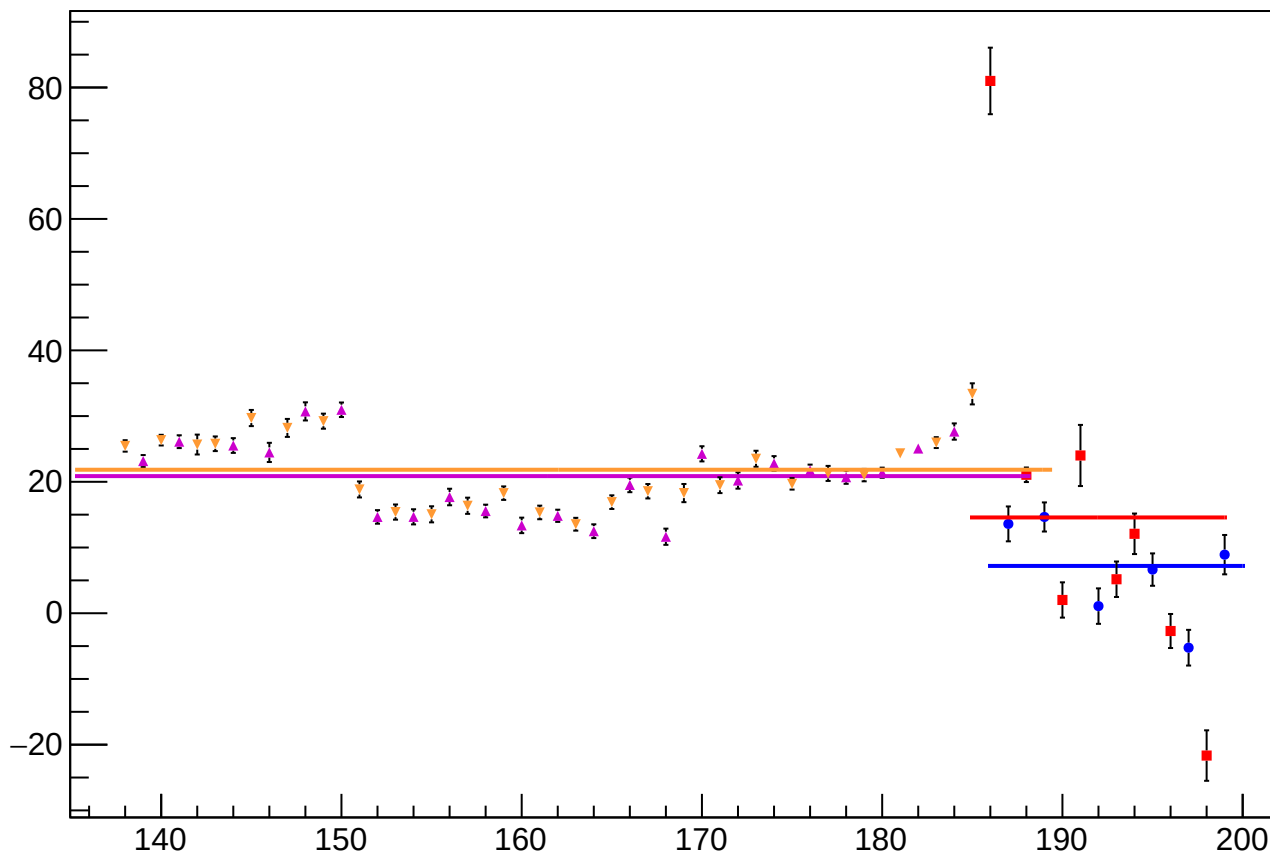
Right: -0.172 ± 0.008 χ^2/NDF : 5449.7/49

In: -0.269 ± 0.007 χ^2/NDF : 4972.5/45

Out: -0.306 ± 0.007 χ^2/NDF : 4756.9/51

All: -0.288 ± 0.005 χ^2/NDF : 9744.9/97

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: 14.576 ± 0.817 $\chi^2/\text{NDF}: 378.9/7$

Left In: 20.866 ± 0.217 $\chi^2/\text{NDF}: 576.9/22$

Left: 21.366 ± 0.151 $\chi^2/\text{NDF}: 1111.6/47$

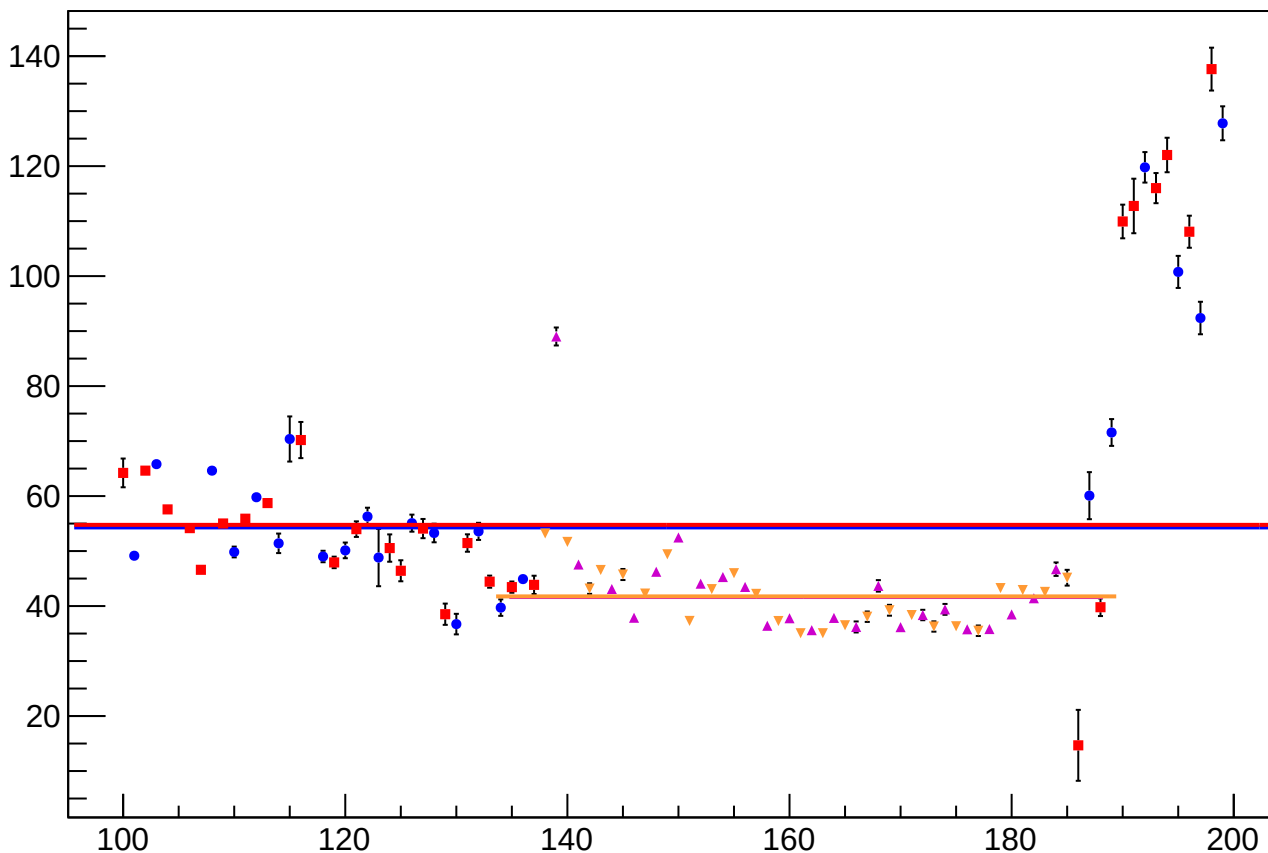
Right: 11.818 ± 0.646 $\chi^2/\text{NDF}: 453.0/13$

In: 20.315 ± 0.212 $\chi^2/\text{NDF}: 781.0/28$

Out: 21.387 ± 0.203 $\chi^2/\text{NDF}: 977.3/32$

All: 20.874 ± 0.147 $\chi^2/\text{NDF}: 1771.6/61$

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 54.298 $\pm$ 0.208 χ^2 /NDF: 2832.4/22

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 54.766 $\pm$ 0.221 χ^2 /NDF: 3249.4/26

Left In: 41.643 $\pm$ 0.174 χ^2 /NDF:1611.0/22

Left: 41.703 $\pm$ 0.120 χ^2 /NDF: 2626.9/47

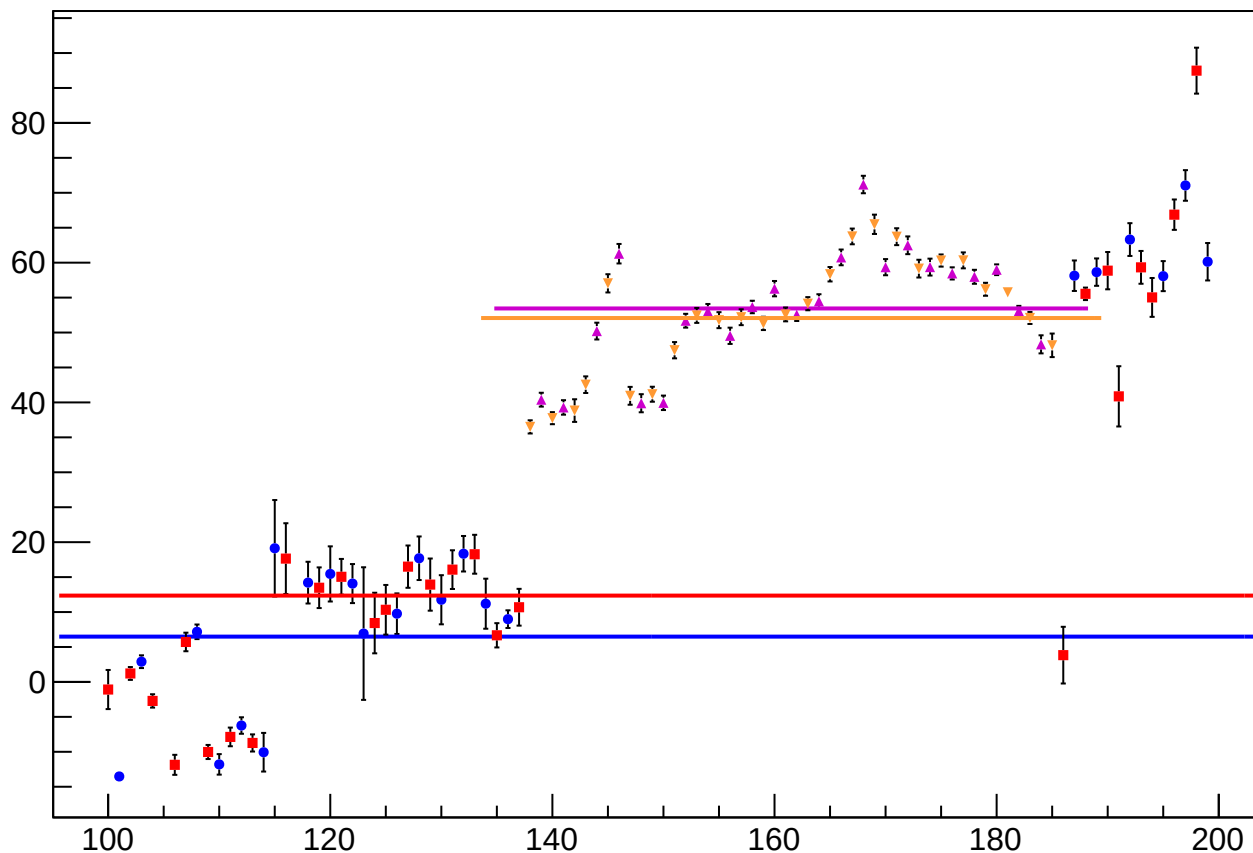
Right: 54.517 $\pm$ 0.152 χ^2 /NDF: 6084.2/49

In: 46.849 $\pm$ 0.133 χ^2 /NDF:6624.9/45

Out: 46.417 $\pm$ 0.132 χ^2 /NDF:6482.2/51

All: 46.632 $\pm$ 0.094 χ^2 /NDF: 13112.4/97

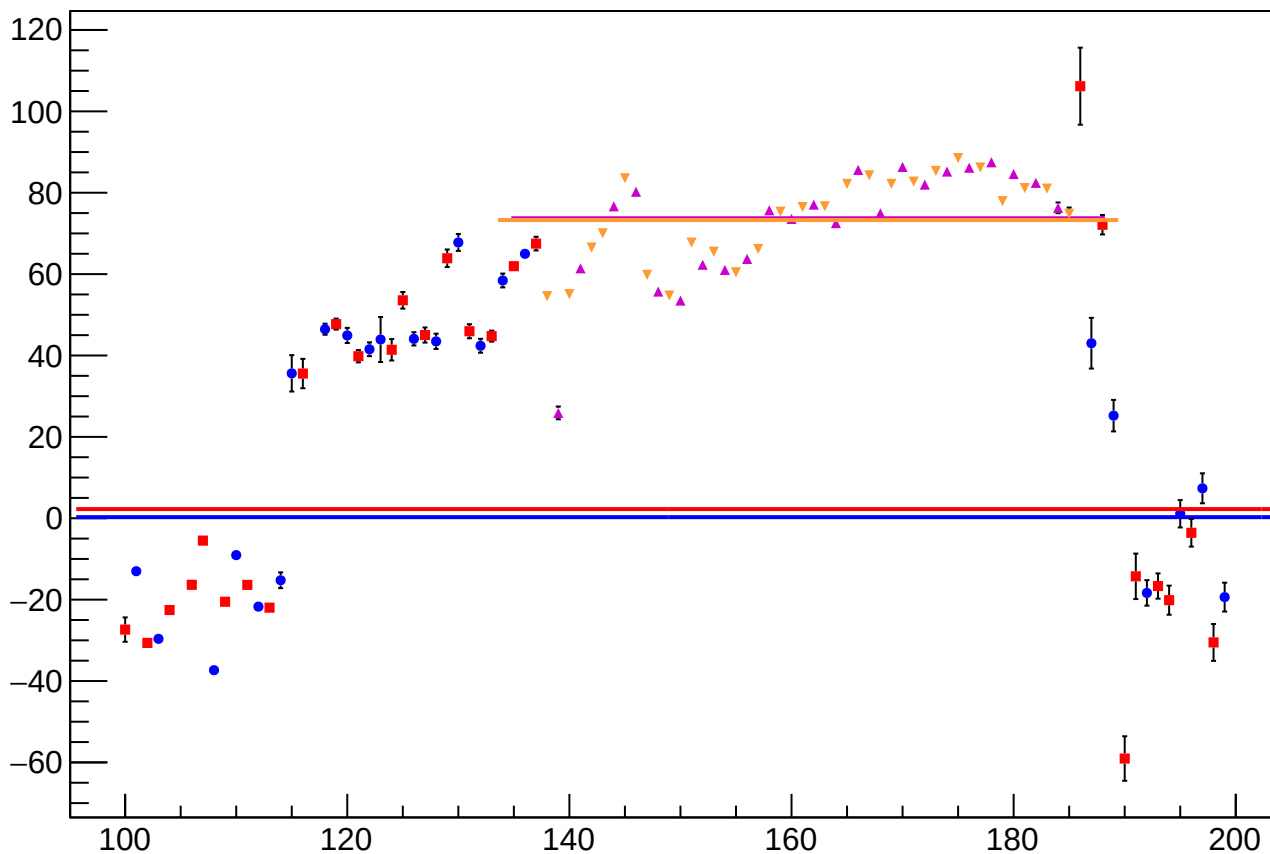
reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.484 $\pm$ 0.338 χ^2 /NDF: 5128.0/22
 Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24
 Right Out: 12.354 $\pm$ 0.331 χ^2 /NDF: 6247.0/26
 Left In: 53.447 $\pm$ 0.215 χ^2 /NDF:1169.0/22

Left: 52.744 $\pm$ 0.150 χ^2 /NDF: 2640.6/47
 Right: 9.487 $\pm$ 0.236 χ^2 /NDF: 11529.0/49
 In: 39.905 $\pm$ 0.182 χ^2 /NDF:20010.4/45
 Out: 40.654 $\pm$ 0.177 χ^2 /NDF:17985.5/51
 All: 40.289 $\pm$ 0.127 χ^2 /NDF: 38004.6/97

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: 2.258 ± 0.262 χ^2/NDF : 16661.1/26

Left In: 73.730 ± 0.194 χ^2/NDF : 3775.8/22

Left: 73.498 ± 0.135 χ^2/NDF : 6922.7/47

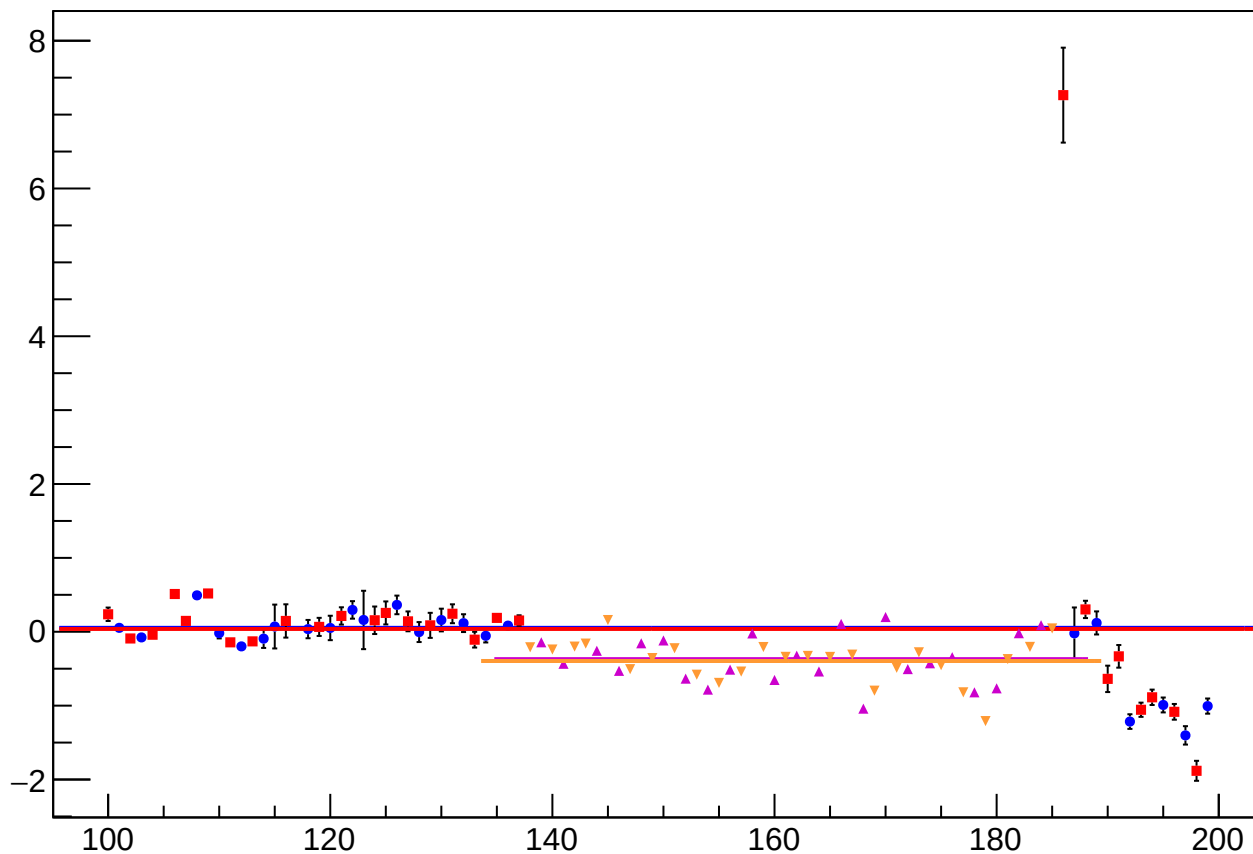
Right: 1.197 ± 0.179 χ^2/NDF : 35070.2/49

In: 45.275 ± 0.152 χ^2/NDF : 77503.2/45

Out: 49.282 ± 0.152 χ^2/NDF : 68636.8/51

All: 47.279 ± 0.108 χ^2/NDF : 146487.0/97

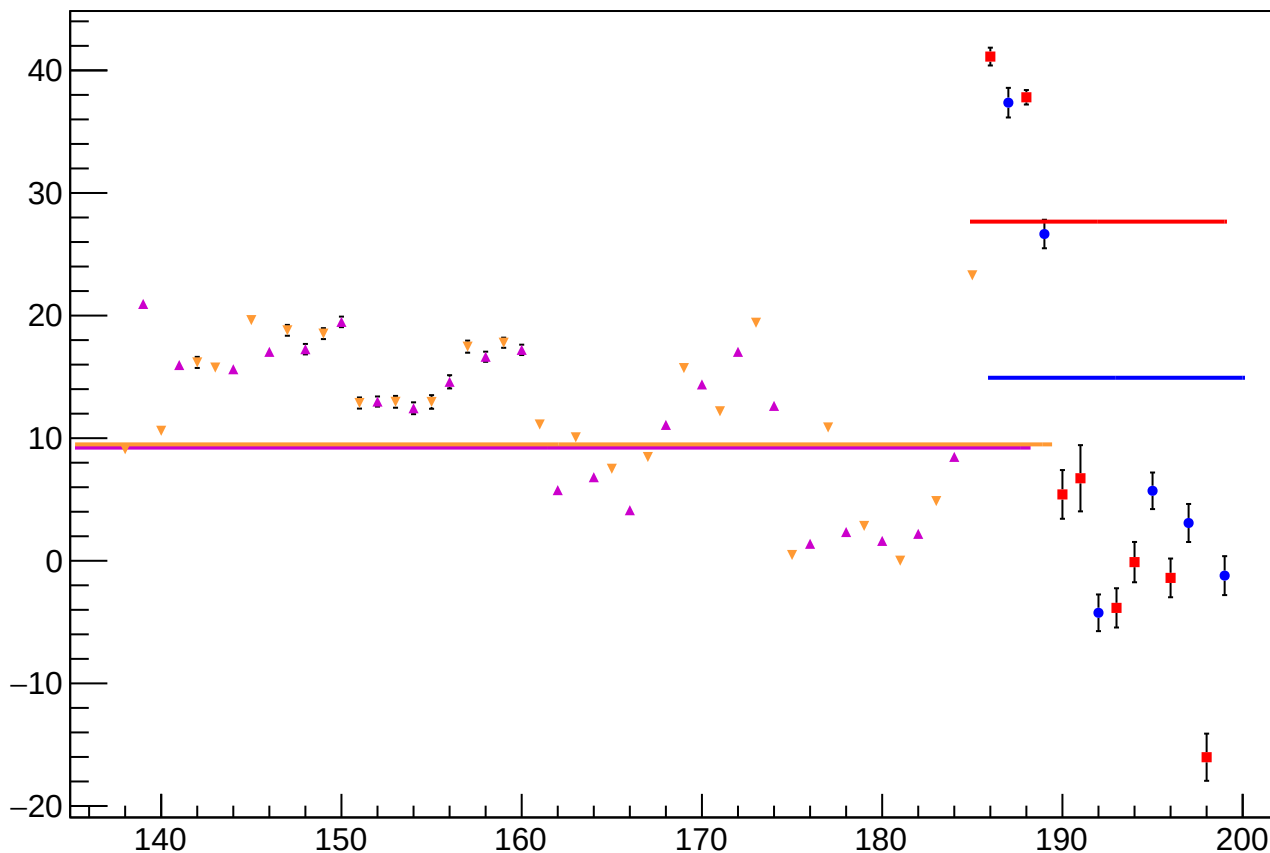
reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



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: 0.038 ± 0.011 $\chi^2/\text{NDF}: 1083.3/26$
 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: 0.046 ± 0.008 $\chi^2/\text{NDF}: 2021.2/49$
 In: -0.203 ± 0.007 $\chi^2/\text{NDF}: 3186.0/45$
 Out: -0.227 ± 0.007 $\chi^2/\text{NDF}: 3037.1/51$
 All: -0.215 ± 0.005 $\chi^2/\text{NDF}: 6229.1/97$

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: 27.664+/-0.390 χ^2/NDF : 2350.3/7

Left In: 9.231+/-0.063 χ^2/NDF : 10736.2/22

Left: 9.367+/-0.044 χ^2/NDF : 23354.3/47

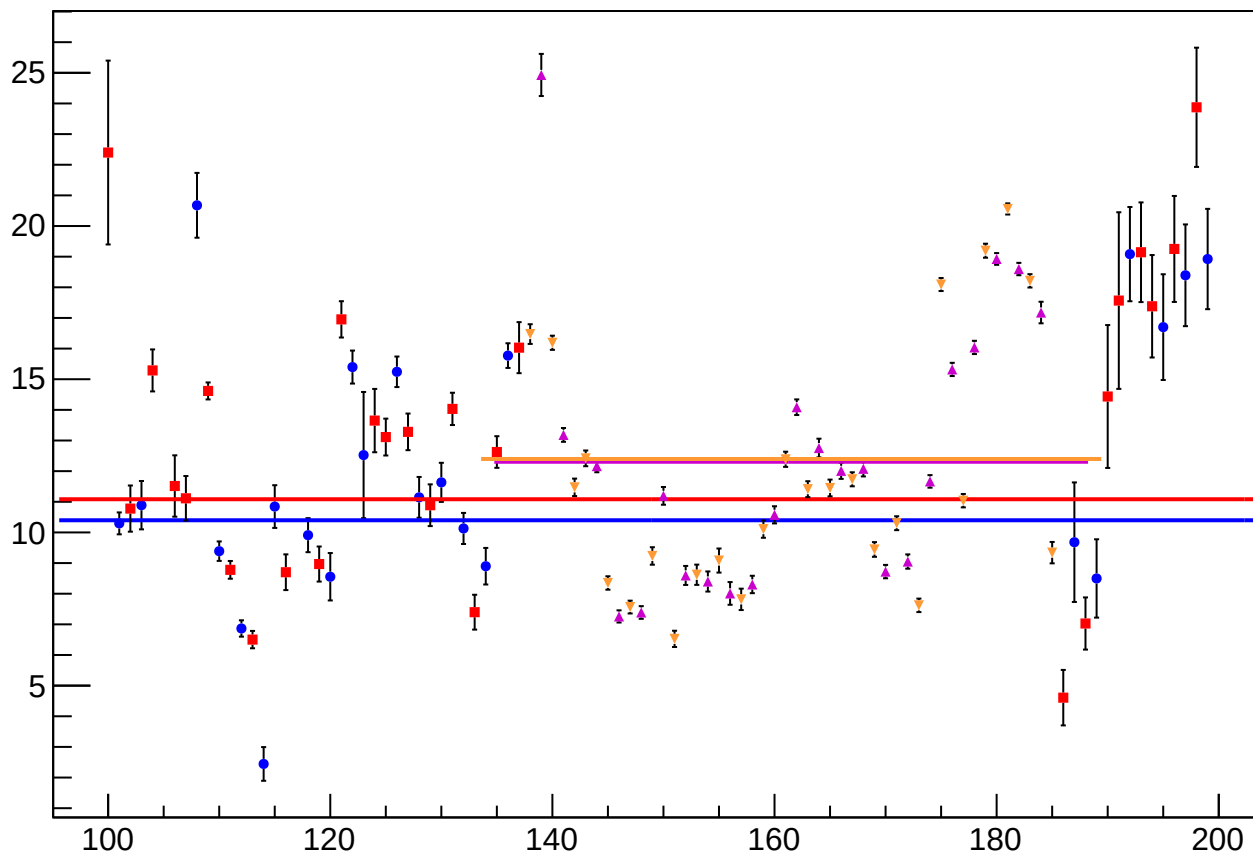
Right: 23.555+/-0.321 χ^2/NDF : 3505.2/13

In: 9.301+/-0.063 χ^2/NDF : 11647.3/28

Out: 9.932+/-0.061 χ^2/NDF : 17078.8/32

All: 9.628+/-0.044 χ^2/NDF : 28778.7/61

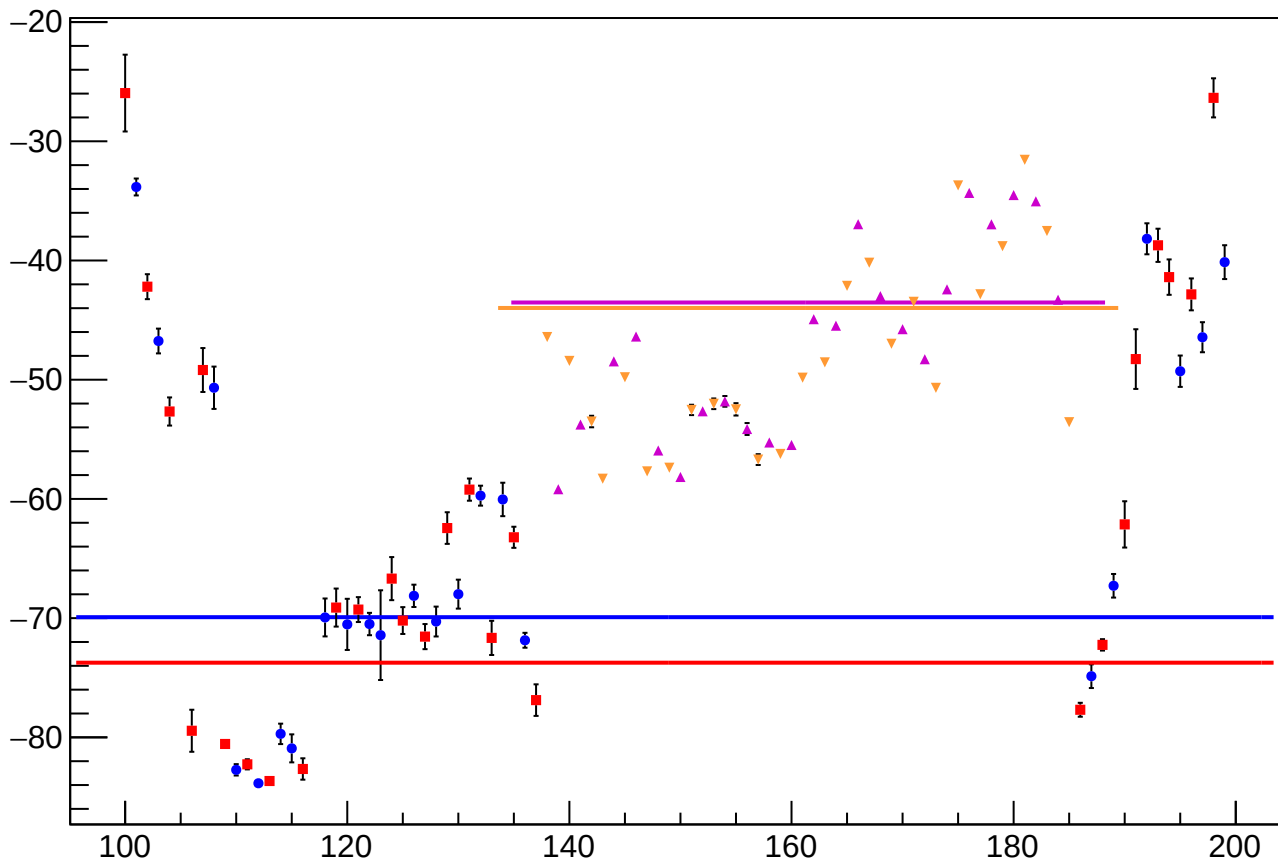
reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



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: 11.083 ± 0.113 $\chi^2/\text{NDF}: 1001.9/26$
 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: 10.753 ± 0.082 $\chi^2/\text{NDF}: 1985.2/49$
 In: 12.003 ± 0.047 $\chi^2/\text{NDF}: 6788.9/45$
 Out: 12.185 ± 0.046 $\chi^2/\text{NDF}: 8657.6/51$
 All: 12.097 ± 0.033 $\chi^2/\text{NDF}: 15454.2/97$

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: -73.737 ± 0.158 $\chi^2/\text{NDF}: 6288.2/26$

Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$

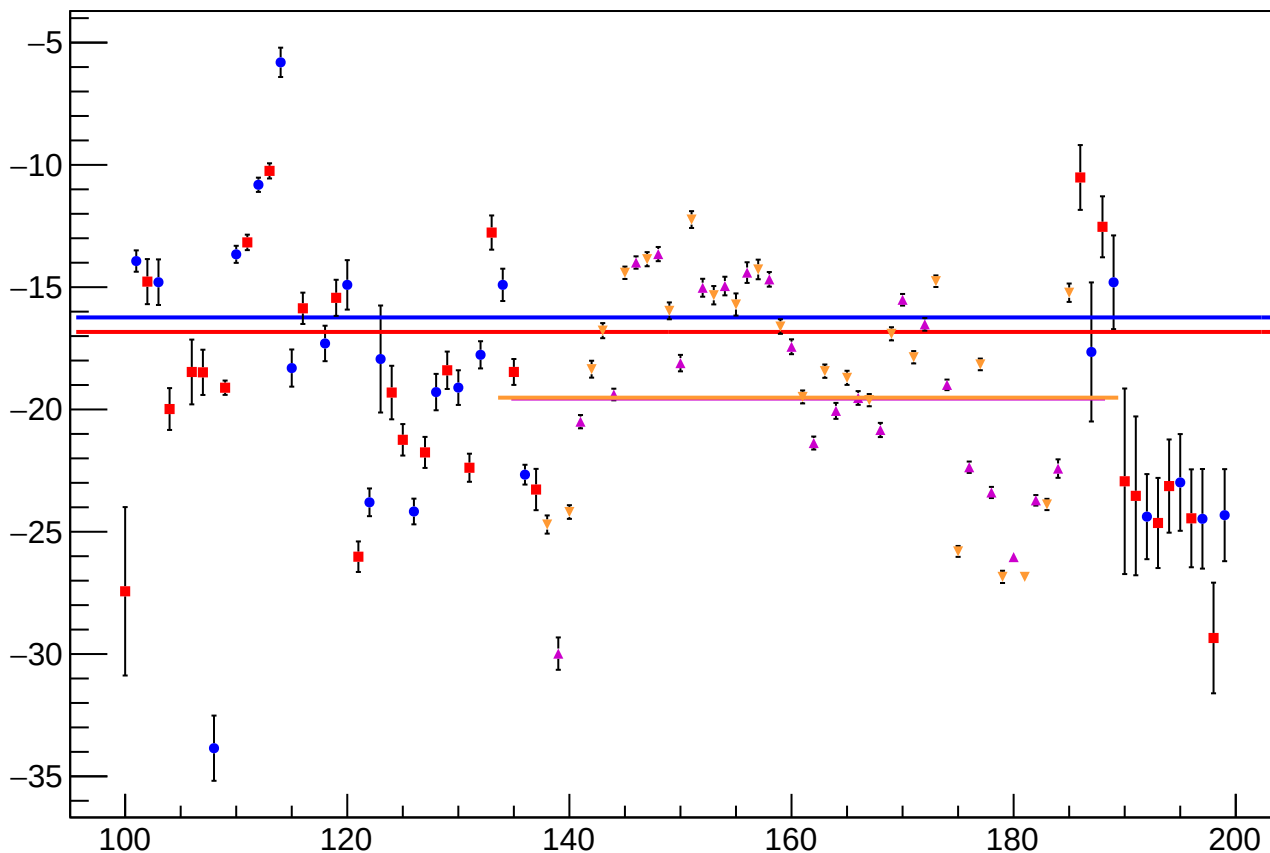
Right: -72.112 ± 0.120 $\chi^2/\text{NDF}: 13892.9/49$

In: -46.334 ± 0.060 $\chi^2/\text{NDF}: 41129.1/45$

Out: -47.949 ± 0.058 $\chi^2/\text{NDF}: 54801.2/51$

All: -47.172 ± 0.042 $\chi^2/\text{NDF}: 96307.9/97$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.237 ± 0.131 χ^2/NDF : 1691.1/22

Left Out: -19.517 ± 0.056 χ^2/NDF : 6518.3/24

Right Out: -16.830 ± 0.126 χ^2/NDF : 1326.8/26

Left In: -19.555 ± 0.057 χ^2/NDF : 4311.2/22

Left: -19.536 ± 0.040 χ^2/NDF : 10829.6/47

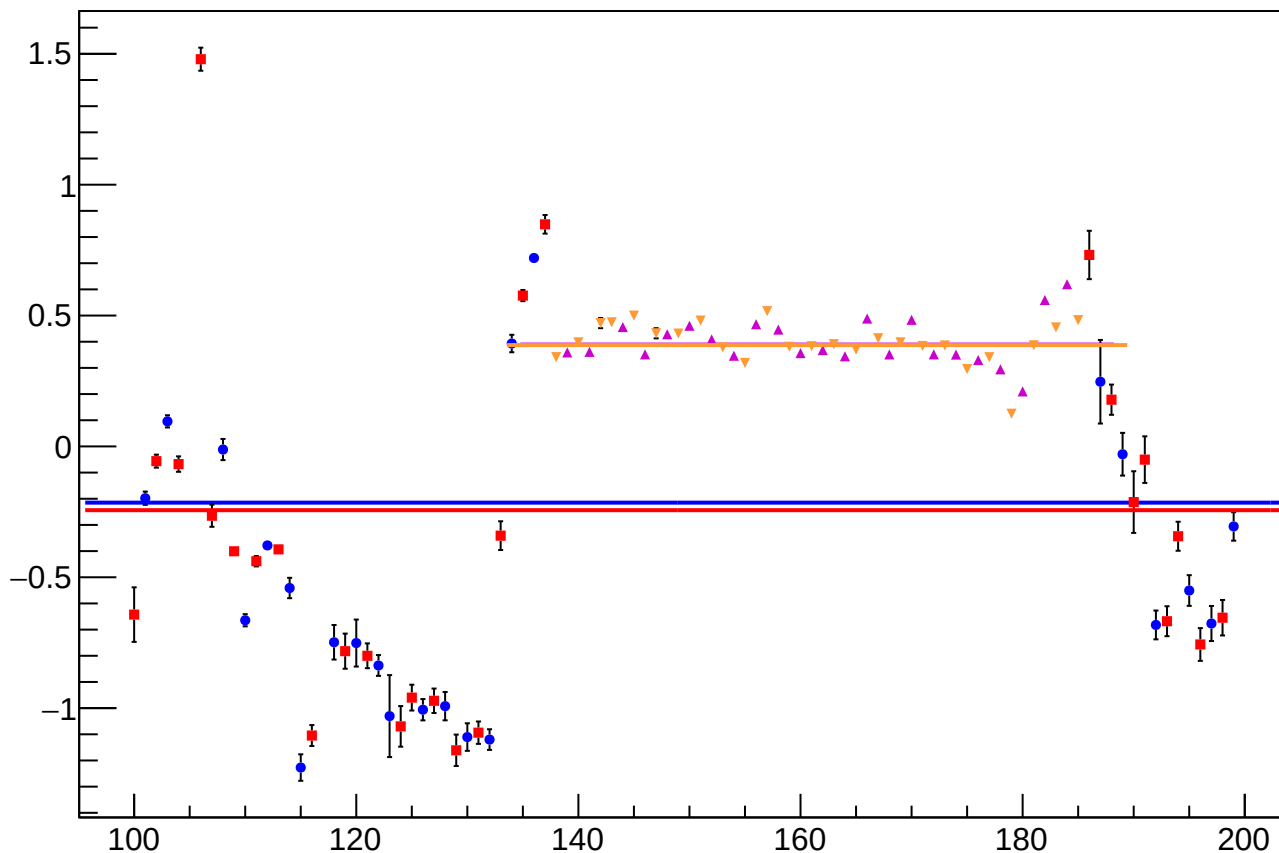
Right: -16.545 ± 0.091 χ^2/NDF : 3028.6/49

In: -19.022 ± 0.053 χ^2/NDF : 6540.1/45

Out: -19.076 ± 0.051 χ^2/NDF : 8226.1/51

All: -19.050 ± 0.037 χ^2/NDF : 14766.7/97

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: -0.244 ± 0.007 χ^2/NDF : 6509.2/26

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

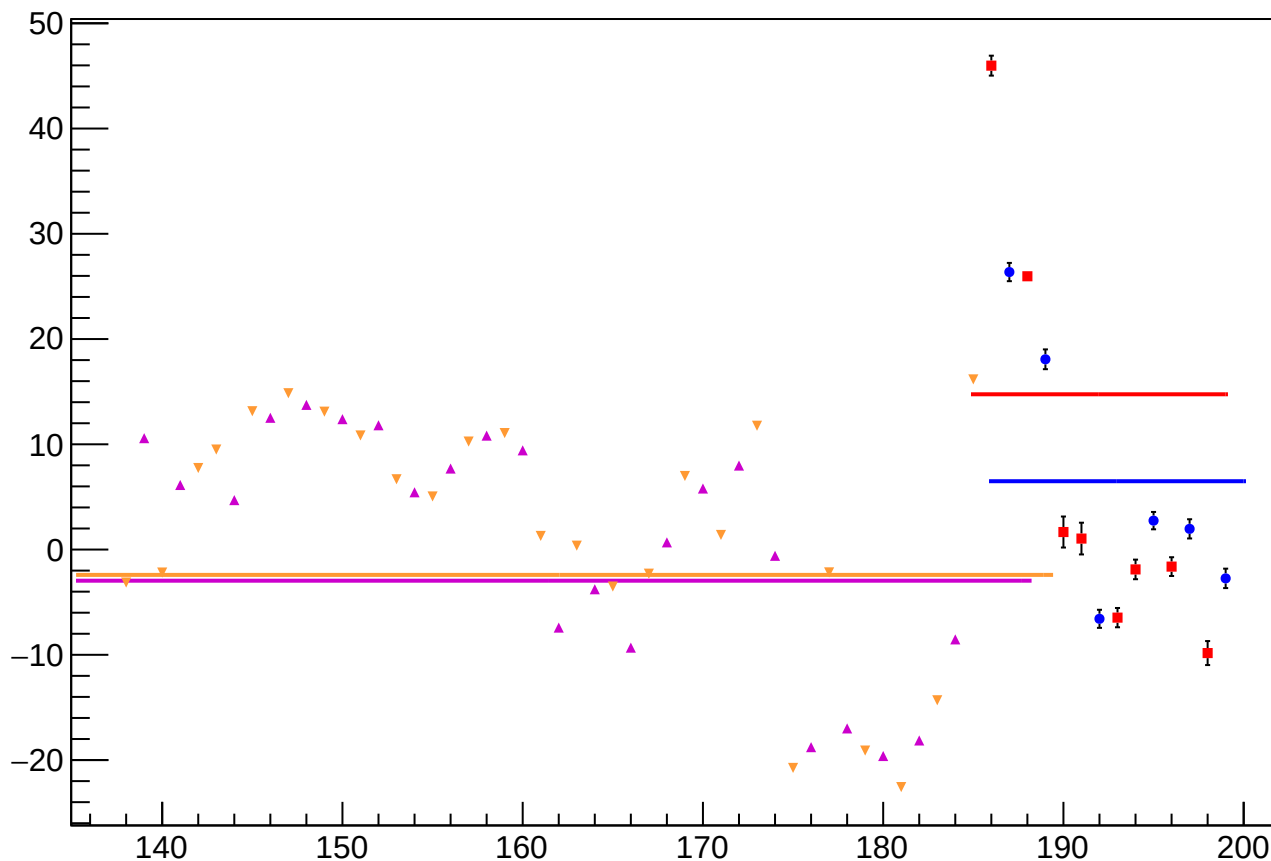
Right: -0.230 ± 0.005 χ^2/NDF : 13009.2/49

In: 0.320 ± 0.002 χ^2/NDF : 13846.2/45

Out: 0.311 ± 0.002 χ^2/NDF : 14878.8/51

All: 0.315 ± 0.002 χ^2/NDF : 28732.3/97

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



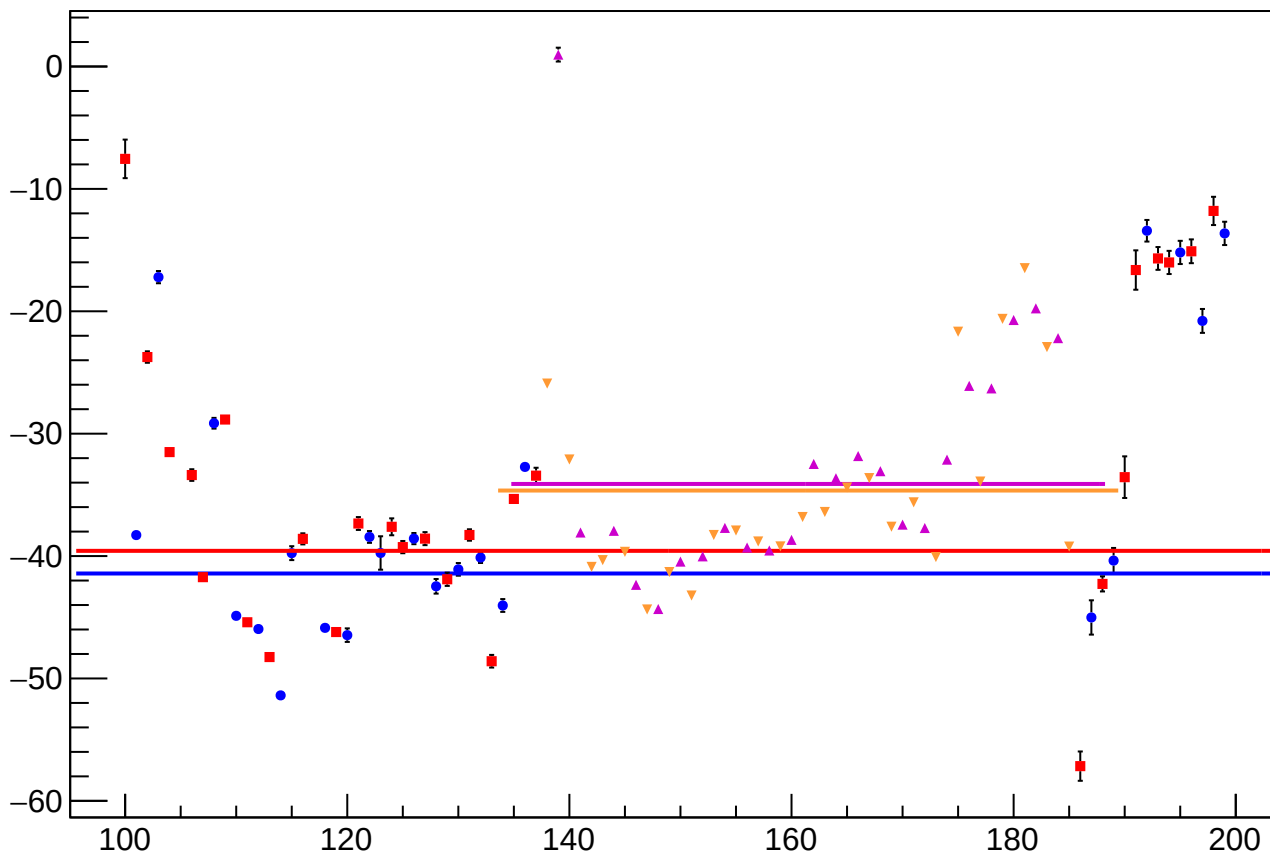
Right In: 6.493 $\pm$ 0.361 χ^2 /NDF: 1052.9/5
 Left Out: -2.407 $\pm$ 0.053 χ^2 /NDF: 56368.5/24
 Right Out: 14.752 $\pm$ 0.290 χ^2 /NDF: 3593.4/7
 Left In: -2.959 $\pm$ 0.055 χ^2 /NDF: 45922.6/22

Left: -2.672 $\pm$ 0.038 χ^2 /NDF: 102343.8/47
 Right: 11.511 $\pm$ 0.226 χ^2 /NDF: 4963.7/13

In: -2.746 $\pm$ 0.054 χ^2 /NDF: 47644.3/28
 Out: -1.858 $\pm$ 0.052 χ^2 /NDF: 63340.9/32

All: -2.283 $\pm$ 0.038 χ^2 /NDF: 111125.1/61

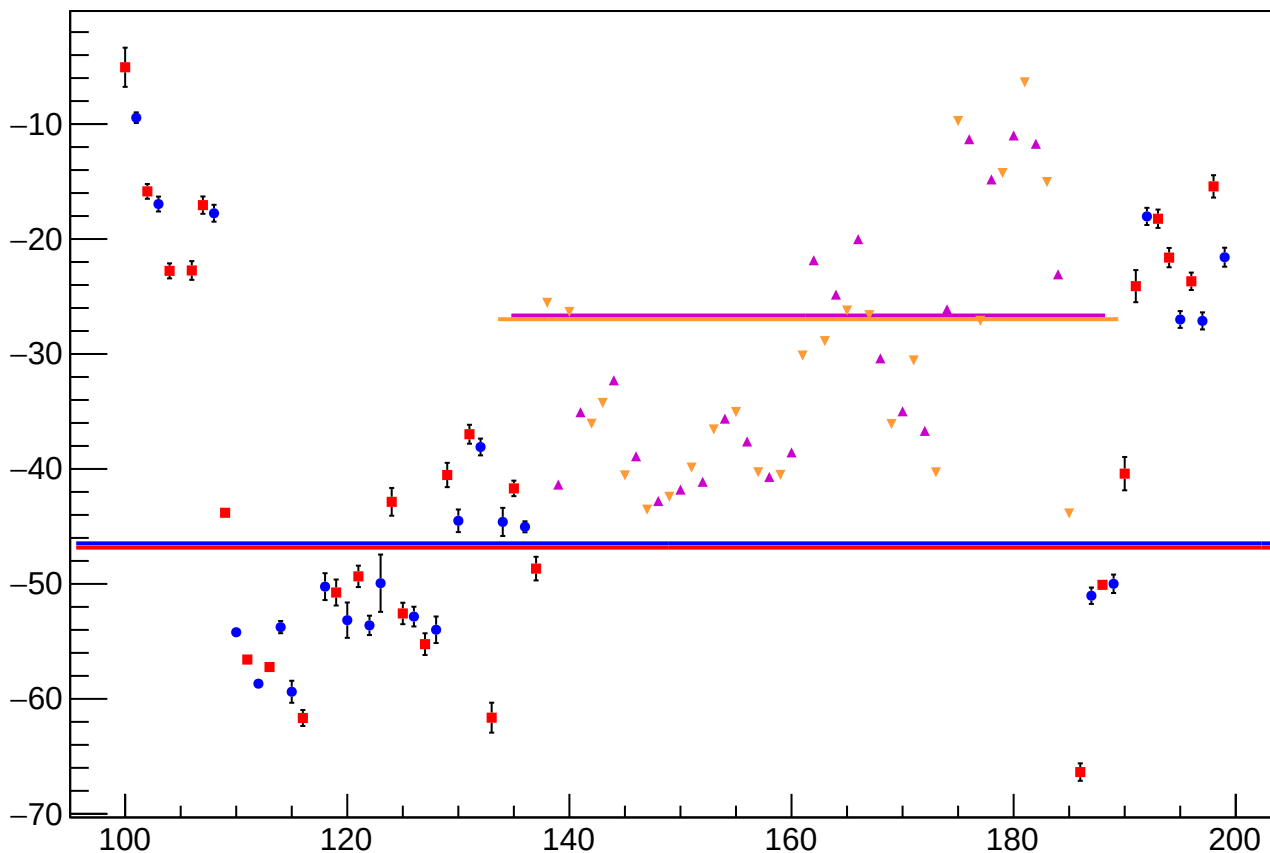
reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -41.424 ± 0.077 $\chi^2/\text{NDF}: 9713.0/22$
 Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$
 Right Out: -39.573 ± 0.071 $\chi^2/\text{NDF}: 14306.5/26$
 Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$
 Right: -40.430 ± 0.052 $\chi^2/\text{NDF}: 24331.5/49$
 In: -35.915 ± 0.038 $\chi^2/\text{NDF}: 45603.6/45$
 Out: -35.905 ± 0.036 $\chi^2/\text{NDF}: 52537.4/51$
 All: -35.910 ± 0.026 $\chi^2/\text{NDF}: 98141.0/97$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.473 ± 0.116 $\chi^2/\text{NDF}: 18796.3/22$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -46.843 ± 0.098 $\chi^2/\text{NDF}: 17072.4/26$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

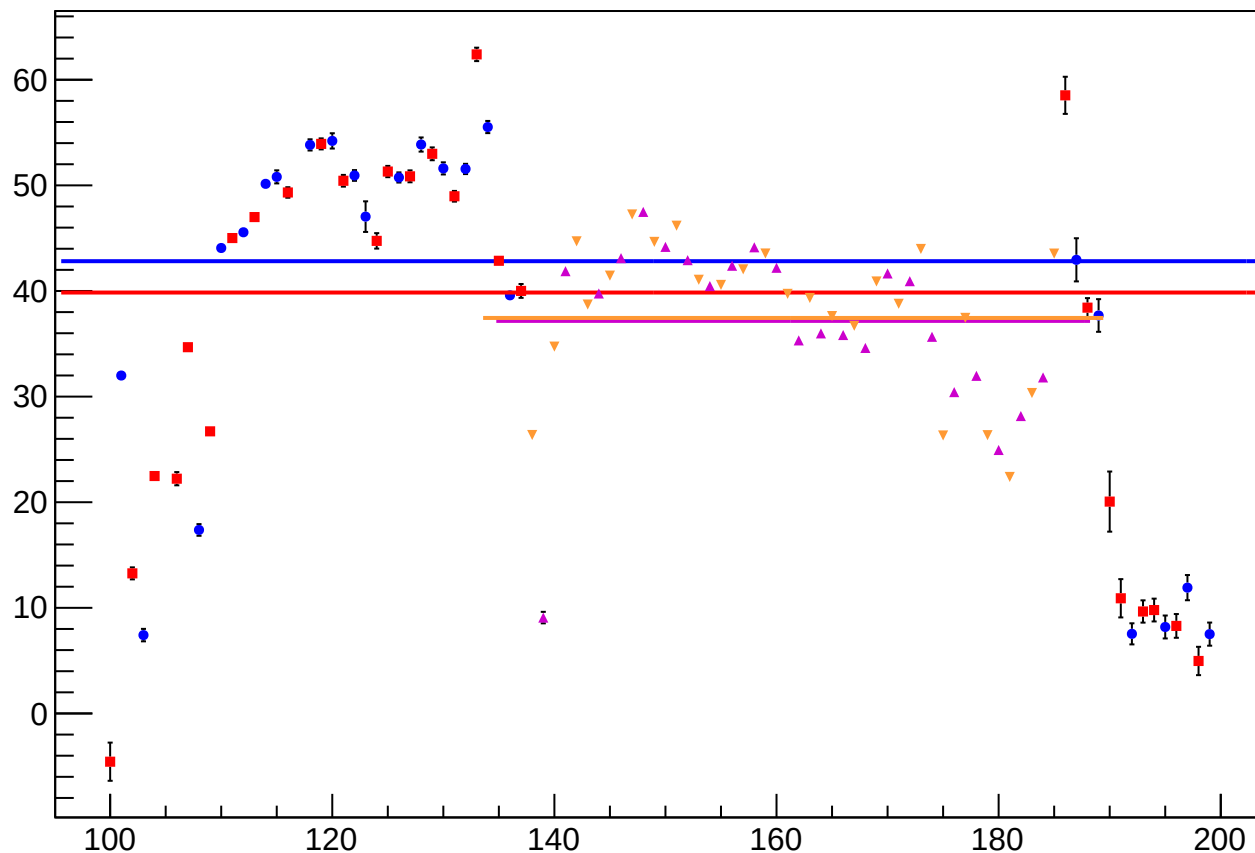
Right: -46.688 ± 0.075 $\chi^2/\text{NDF}: 35874.6/49$

In: -30.298 ± 0.050 $\chi^2/\text{NDF}: 84834.4/45$

Out: -31.486 ± 0.047 $\chi^2/\text{NDF}: 98090.8/51$

All: -30.927 ± 0.034 $\chi^2/\text{NDF}: 183228.9/97$

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: 39.854 $\pm$ 0.079 χ^2 /NDF: 21126.2/26

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

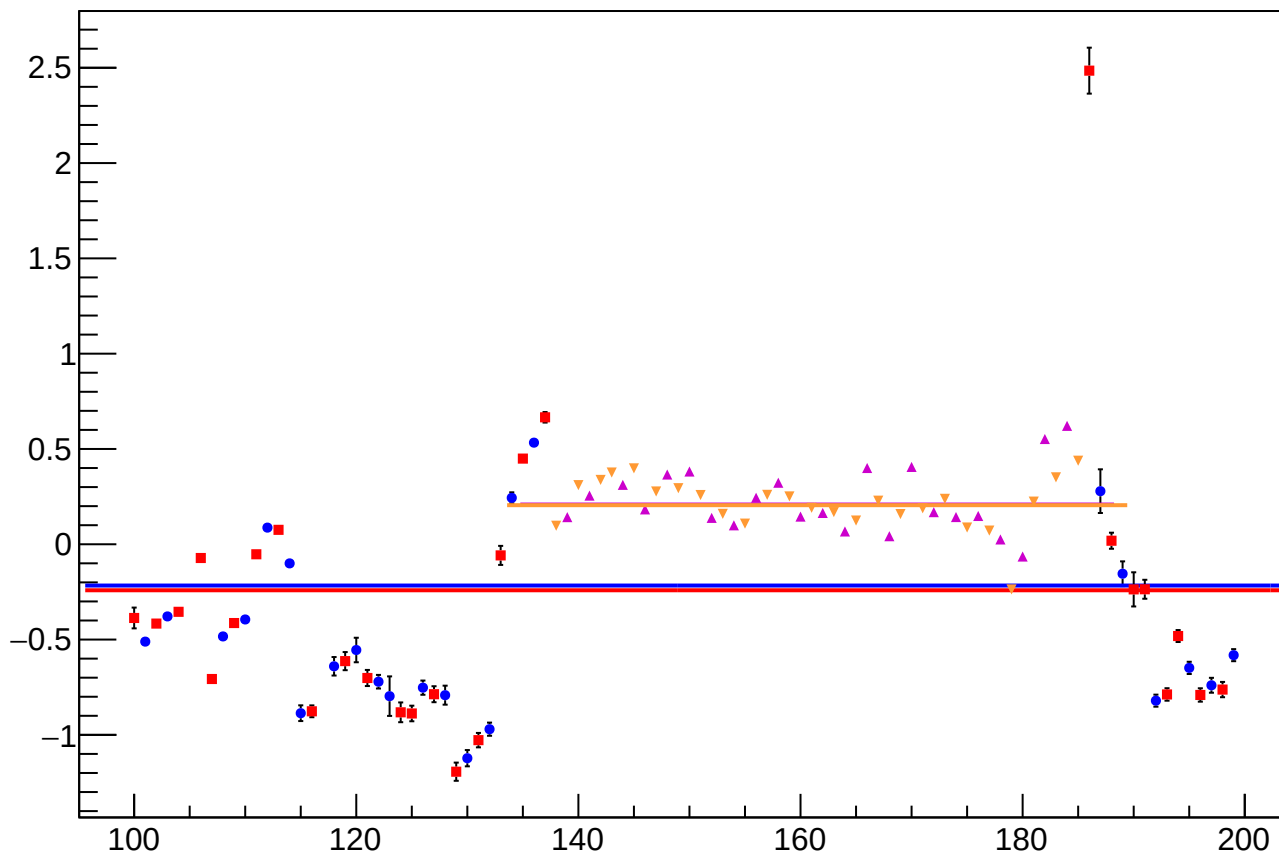
Right: 41.216 $\pm$ 0.058 χ^2 /NDF: 36433.3/49

In: 38.573 $\pm$ 0.043 χ^2 /NDF: 35164.0/45

Out: 38.080 $\pm$ 0.040 χ^2 /NDF: 43381.7/51

All: 38.313 $\pm$ 0.029 χ^2 /NDF: 78615.9/97

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: -0.241 ± 0.004 χ^2/NDF : 8742.8/26

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

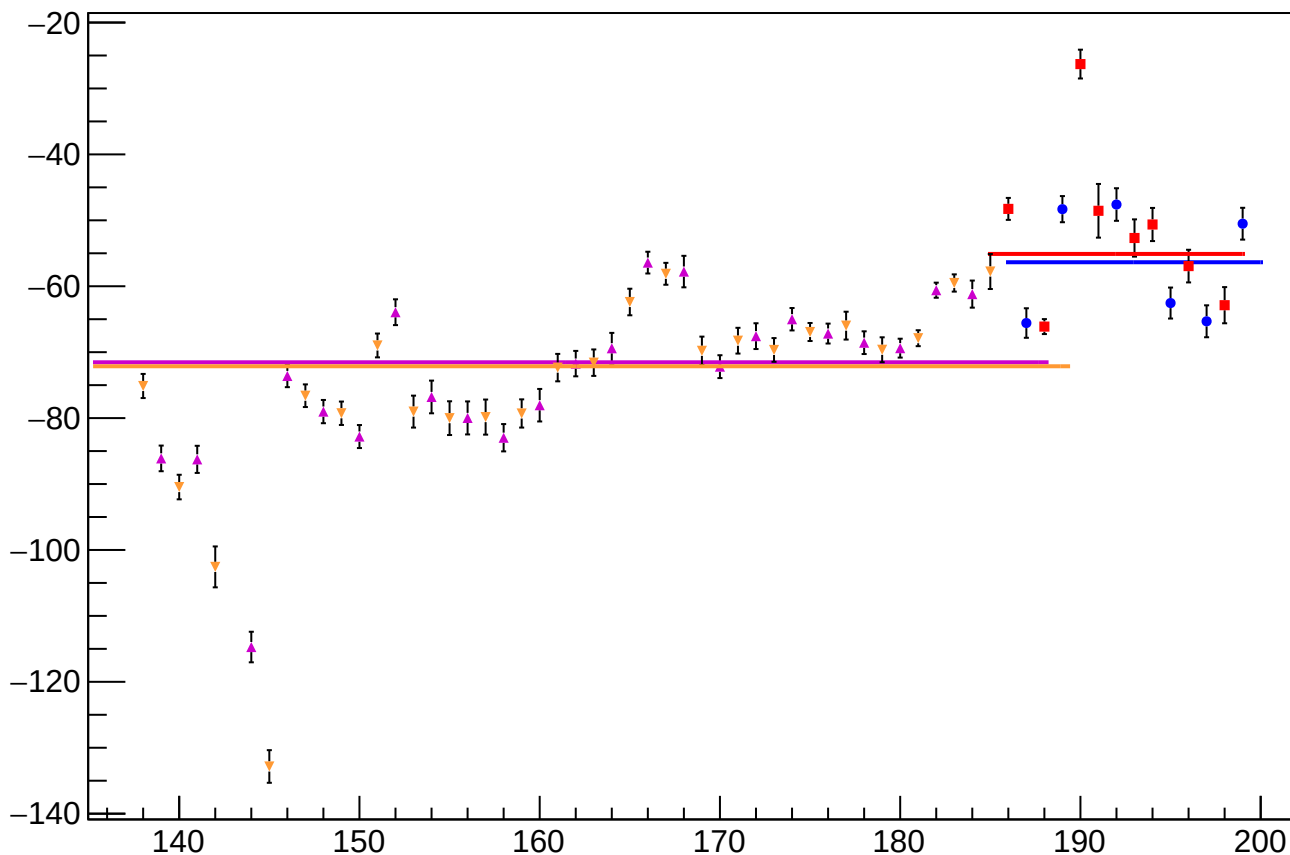
Right: -0.230 ± 0.003 χ^2/NDF : 17057.5/49

In: 0.128 ± 0.002 χ^2/NDF : 20197.4/45

Out: 0.108 ± 0.002 χ^2/NDF : 21703.6/51

All: 0.118 ± 0.001 χ^2/NDF : 41949.2/97

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected

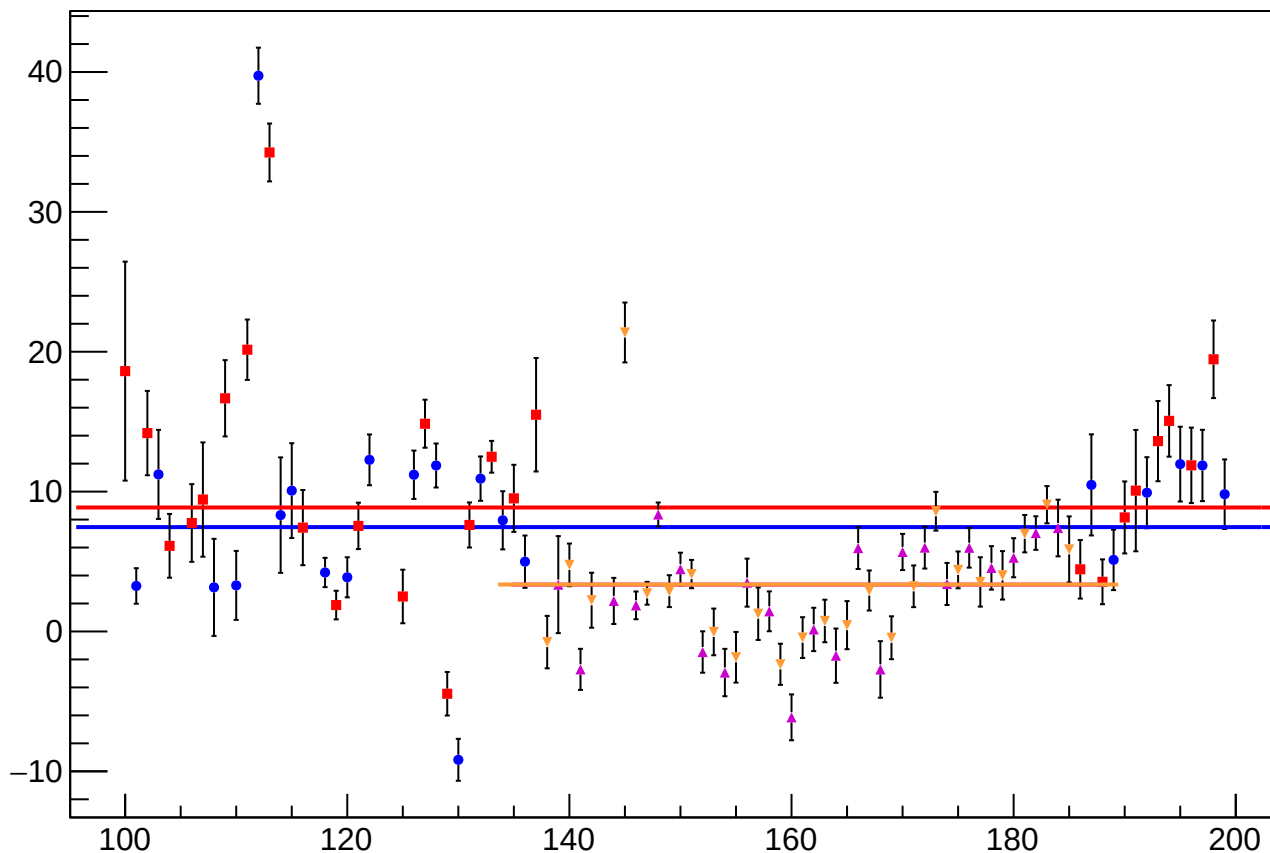


Right In: -56.358 ± 0.936 $\chi^2/\text{NDF}: 72.5/5$
 Left Out: -72.138 ± 0.383 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -55.098 ± 0.710 $\chi^2/\text{NDF}: 299.7/7$
 Left In: -71.534 ± 0.382 $\chi^2/\text{NDF}: 851.4/22$

Left: -71.835 ± 0.270 $\chi^2/\text{NDF}: 1974.0/46$
 Right: -55.558 ± 0.566 $\chi^2/\text{NDF}: 373.4/13$
 In: -69.371 ± 0.353 $\chi^2/\text{NDF}: 1149.2/28$
 Out: -68.297 ± 0.337 $\chi^2/\text{NDF}: 1867.6/31$

All: -68.808 ± 0.244 $\chi^2/\text{NDF}: 3021.7/60$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.461 ± 0.406 $\chi^2/\text{NDF}: 450.6/21$

Left Out: 3.357 ± 0.295 $\chi^2/\text{NDF}: 167.7/23$

Right Out: 8.864 ± 0.397 $\chi^2/\text{NDF}: 389.7/25$

Left In: 3.349 ± 0.298 $\chi^2/\text{NDF}: 163.5/22$

Left: 3.353 ± 0.210 $\chi^2/\text{NDF}: 331.2/46$

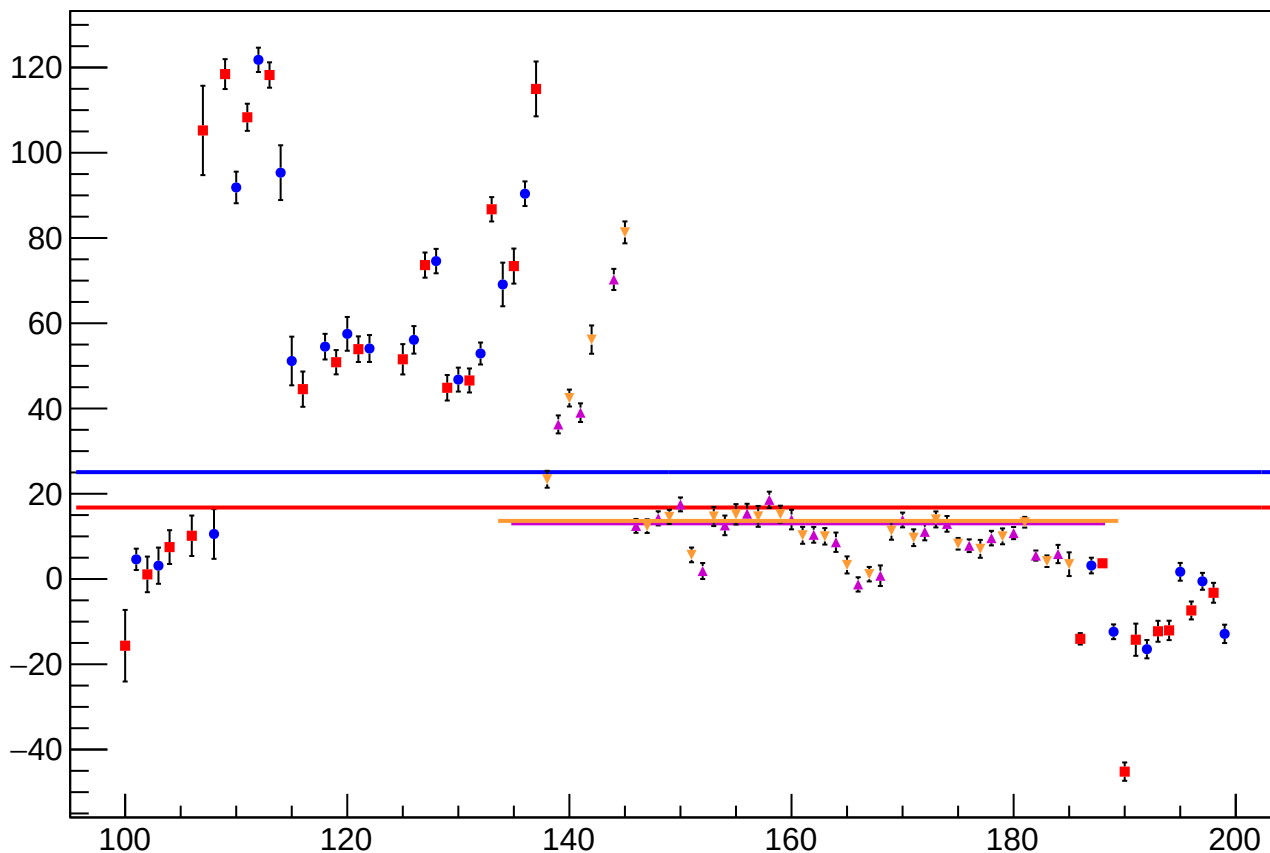
Right: 8.178 ± 0.284 $\chi^2/\text{NDF}: 846.4/47$

In: 4.789 ± 0.240 $\chi^2/\text{NDF}: 680.7/44$

Out: 5.312 ± 0.237 $\chi^2/\text{NDF}: 681.3/49$

All: 5.054 ± 0.169 $\chi^2/\text{NDF}: 1364.4/94$

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: 16.772 $\pm$ 0.488 χ^2 /NDF: 7102.8/25

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

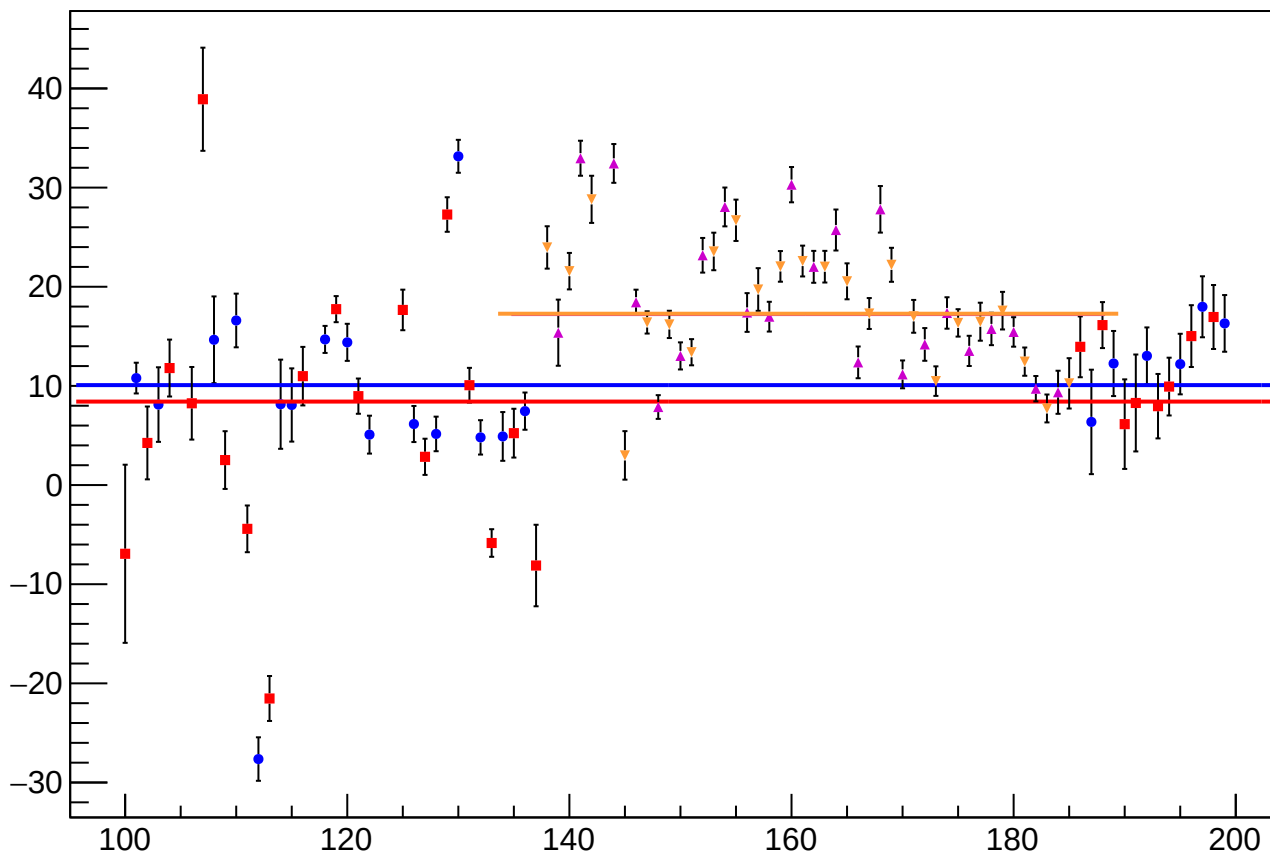
Right: 20.205 $\pm$ 0.373 χ^2 /NDF: 11919.6/47

In: 16.658 $\pm$ 0.318 χ^2 /NDF:6021.5/44

Out: 14.826 $\pm$ 0.301 χ^2 /NDF:8428.5/49

All: 15.691 $\pm$ 0.218 χ^2 /NDF: 14467.6/94

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: 8.419 $\pm$ 0.469 χ^2 /NDF: 596.5/25

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

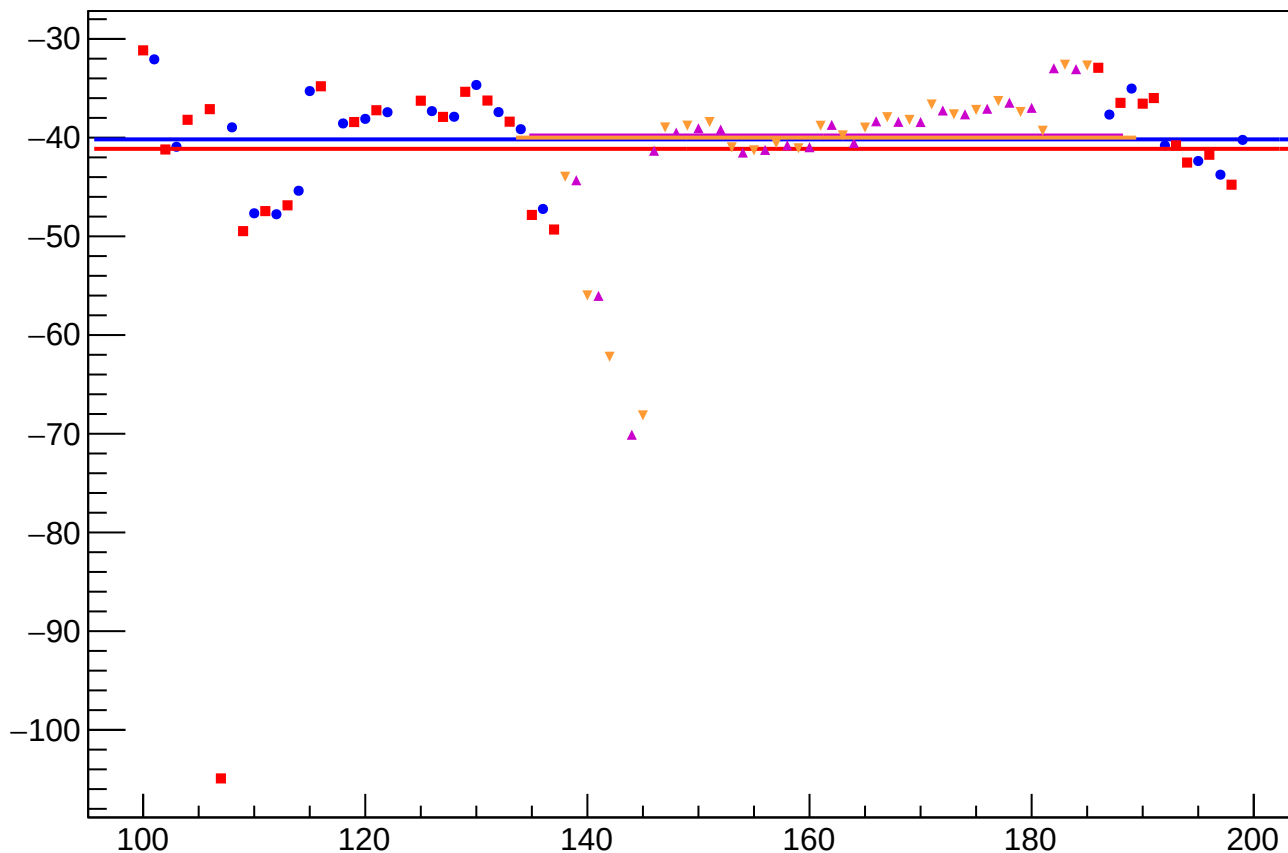
Right: 9.241 $\pm$ 0.333 χ^2 /NDF: 1165.1/47

In: 14.811 $\pm$ 0.276 χ^2 /NDF:1154.5/44

Out: 14.259 $\pm$ 0.274 χ^2 /NDF:1076.0/49

All: 14.533 $\pm$ 0.194 χ^2 /NDF: 2232.5/94

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.176 ± 0.025 $\chi^2/\text{NDF}: 29794.5/21$

Left Out: -39.999 ± 0.016 $\chi^2/\text{NDF}: 172263.8/23$

Right Out: -41.135 ± 0.024 $\chi^2/\text{NDF}: 102435.7/25$

Left In: -39.785 ± 0.016 $\chi^2/\text{NDF}: 144494.5/22$

Left: -39.891 ± 0.011 $\chi^2/\text{NDF}: 316851.8/46$

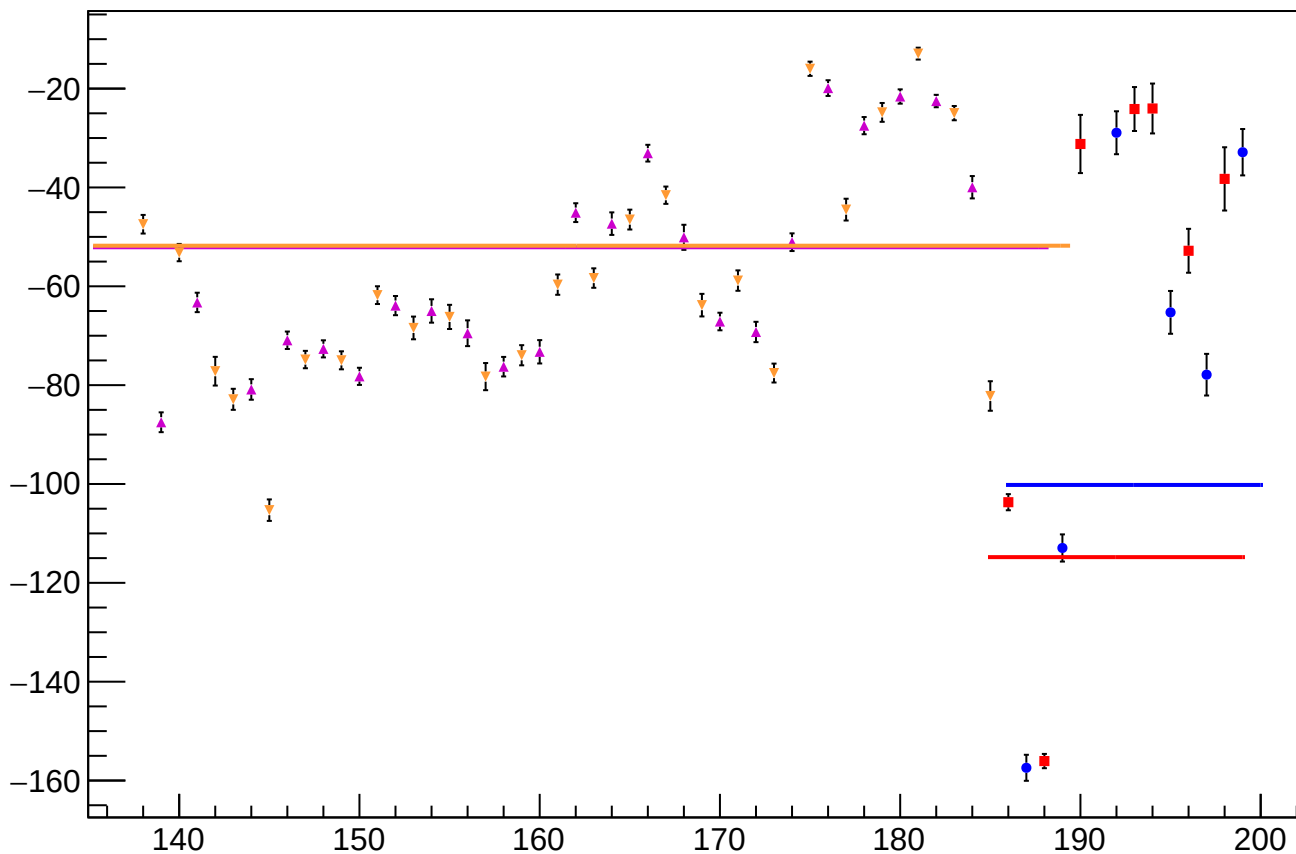
Right: -40.672 ± 0.017 $\chi^2/\text{NDF}: 132985.0/47$

In: -39.894 ± 0.013 $\chi^2/\text{NDF}: 174463.3/44$

Out: -40.336 ± 0.013 $\chi^2/\text{NDF}: 276240.5/49$

All: -40.116 ± 0.009 $\chi^2/\text{NDF}: 451260.3/94$

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -100.192 ± 1.436 χ^2/NDF : 1062.3/5

Left Out: -51.787 ± 0.383 χ^2/NDF : 4164.8/24

Right Out: -114.797 ± 0.977 χ^2/NDF : 2139.5/6

Left In: -52.104 ± 0.389 χ^2/NDF : 3280.2/22

Left: -51.943 ± 0.273 χ^2/NDF : 7445.3/47

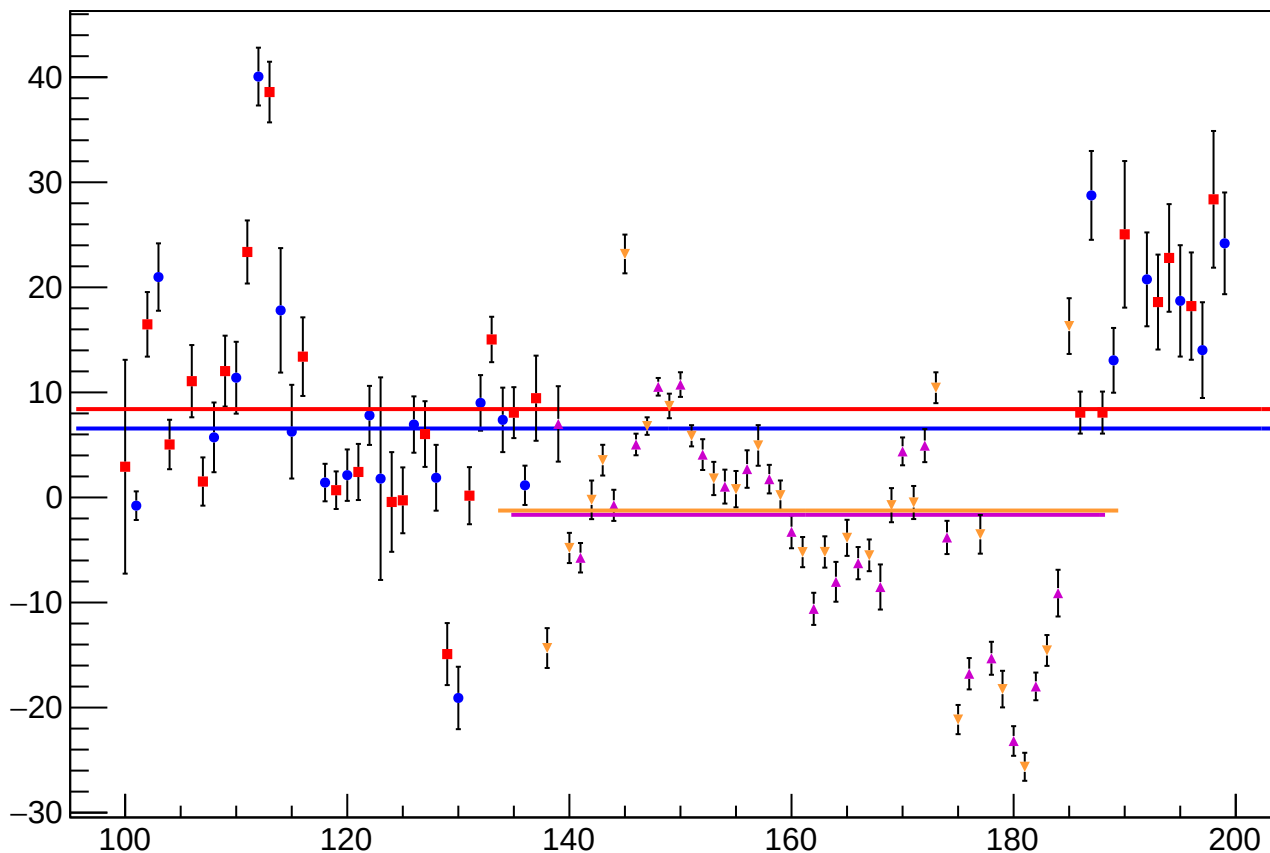
Right: -110.178 ± 0.808 χ^2/NDF : 3272.5/12

In: -55.385 ± 0.375 χ^2/NDF : 5386.9/28

Out: -60.168 ± 0.356 χ^2/NDF : 9911.4/31

All: -57.900 ± 0.258 χ^2/NDF : 15383.7/60

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: 8.411 ± 0.575 $\chi^2/\text{NDF}: 304.2/25$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

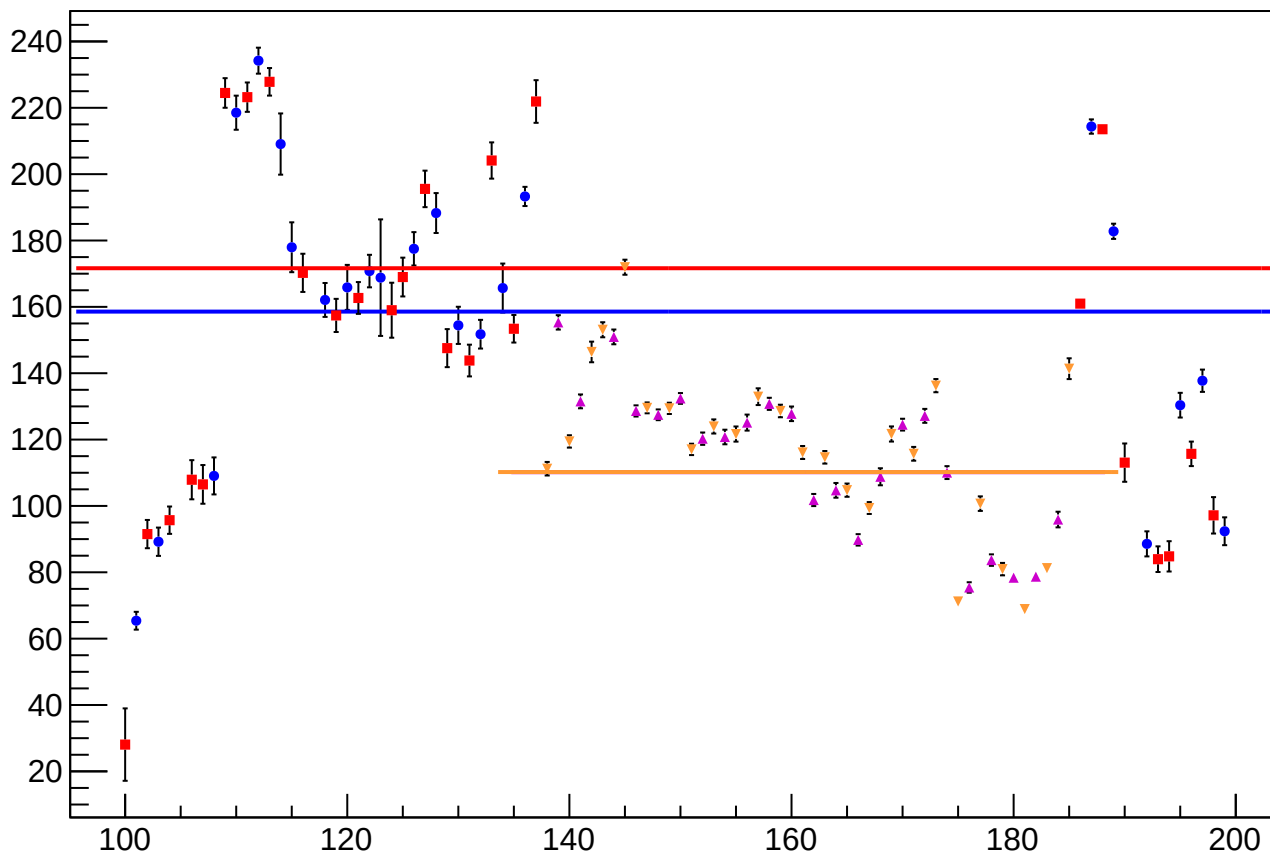
Right: 7.512 ± 0.412 $\chi^2/\text{NDF}: 673.7/48$

In: 0.036 ± 0.268 $\chi^2/\text{NDF}: 1610.4/45$

Out: 0.733 ± 0.260 $\chi^2/\text{NDF}: 1851.2/50$

All: 0.394 ± 0.187 $\chi^2/\text{NDF}: 3465.2/96$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 158.573 $\pm$ 0.832 χ^2 /NDF: 3753.1/22

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 171.644 $\pm$ 0.659 χ^2 /NDF: 4529.0/25

Left In: 110.171 $\pm$ 0.386 χ^2 /NDF:3702.6/22

Left: 110.192 $\pm$ 0.272 χ^2 /NDF: 8296.2/47

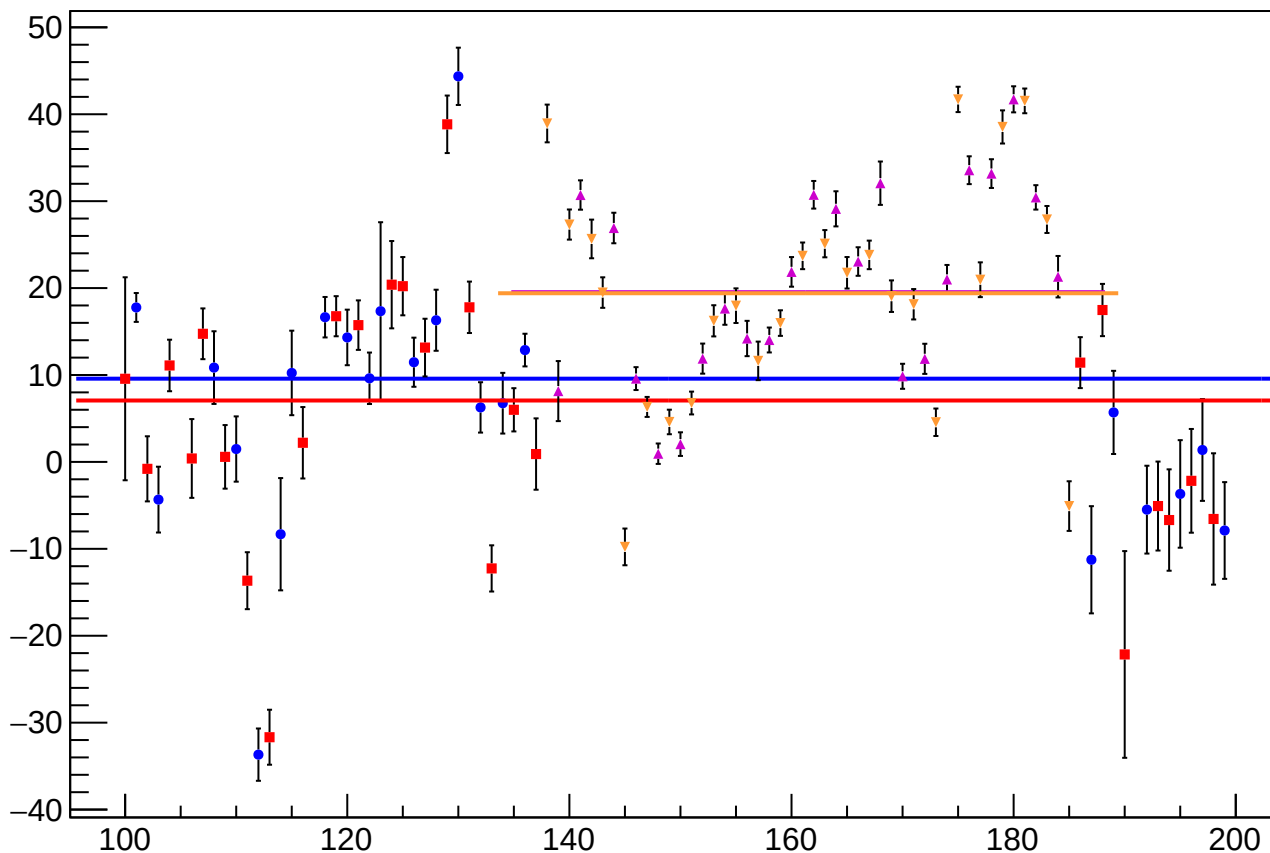
Right: 166.601 $\pm$ 0.517 χ^2 /NDF: 8433.8/48

In: 118.747 $\pm$ 0.350 χ^2 /NDF:10242.0/45

Out: 125.657 $\pm$ 0.331 χ^2 /NDF:15623.2/50

All: 122.401 $\pm$ 0.240 χ^2 /NDF: 26071.2/96

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: 7.065 ± 0.685 $\chi^2/\text{NDF}: 460.4/25$

Left In: 19.530 ± 0.342 $\chi^2/\text{NDF}: 1181.3/22$

Left: 19.466 ± 0.239 $\chi^2/\text{NDF}: 2634.8/47$

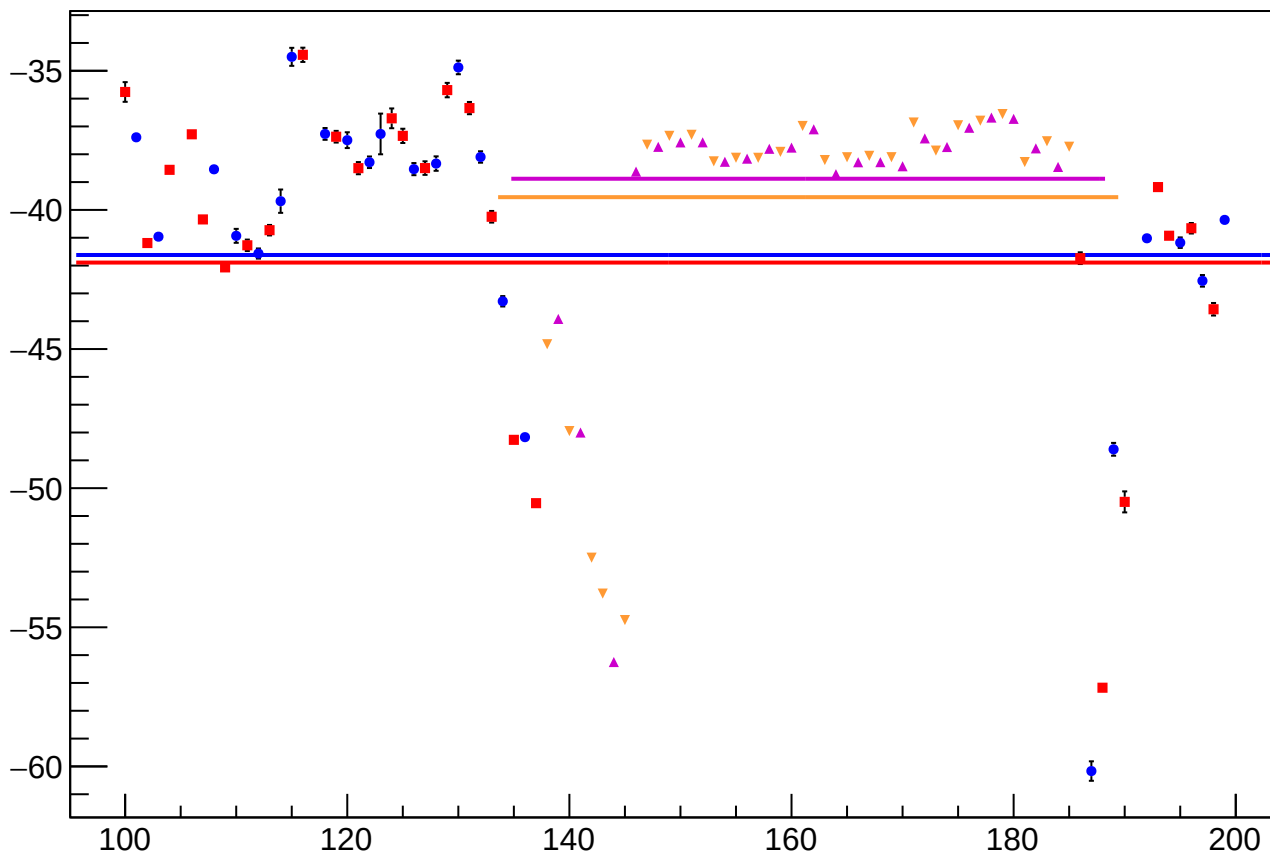
Right: 8.318 ± 0.485 $\chi^2/\text{NDF}: 894.0/48$

In: 17.546 ± 0.306 $\chi^2/\text{NDF}: 1776.5/45$

Out: 17.027 ± 0.301 $\chi^2/\text{NDF}: 2175.8/50$

All: 17.282 ± 0.215 $\chi^2/\text{NDF}: 3953.8/96$

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.620 ± 0.035 χ^2/NDF : 16398.6/22

Left Out: -39.542 ± 0.016 χ^2/NDF : 92024.1/24

Right Out: -41.892 ± 0.034 χ^2/NDF : 22615.1/25

Left In: -38.880 ± 0.016 χ^2/NDF : 53409.9/22

Left: -39.214 ± 0.011 χ^2/NDF : 146312.0/47

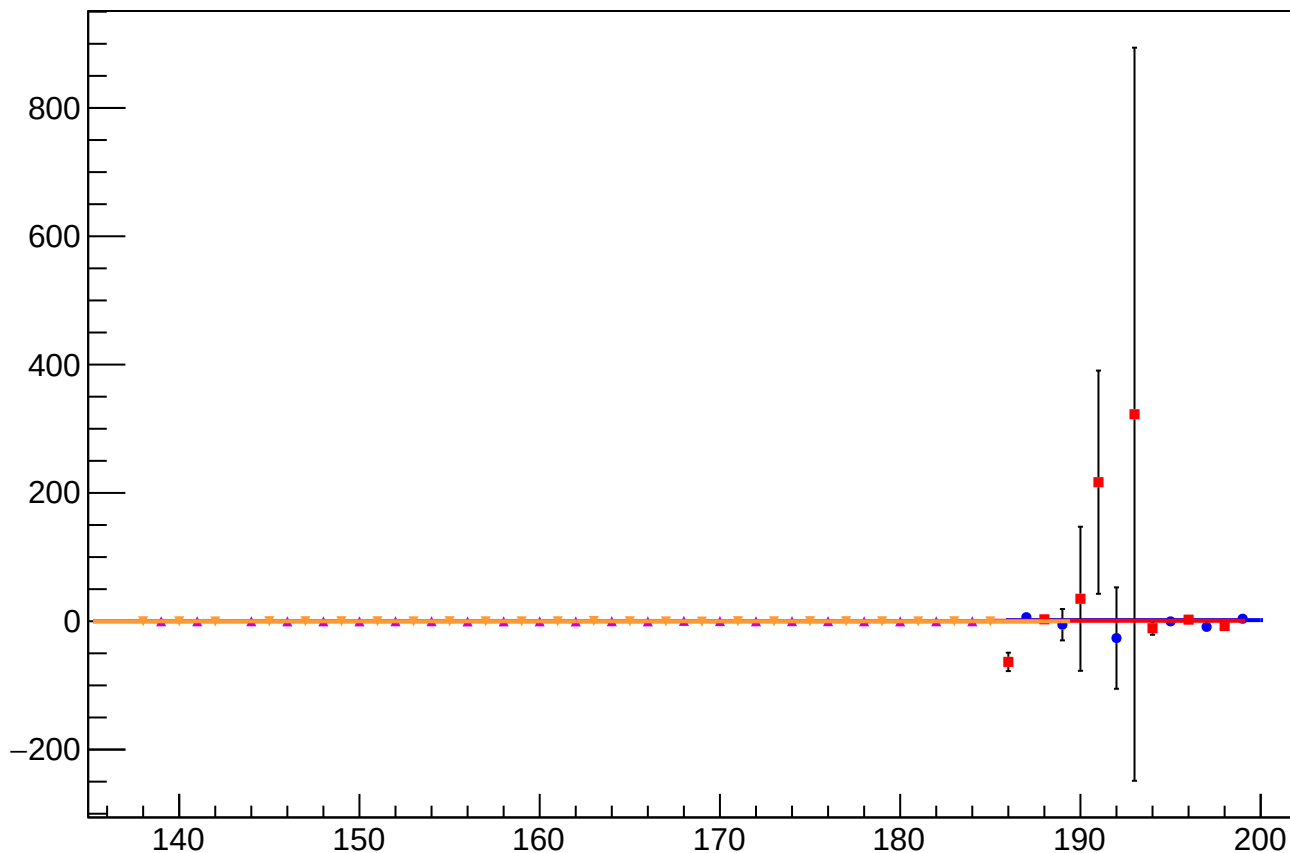
Right: -41.759 ± 0.024 χ^2/NDF : 39044.9/48

In: -39.351 ± 0.014 χ^2/NDF : 74940.9/45

Out: -39.954 ± 0.014 χ^2/NDF : 118552.2/50

All: -39.656 ± 0.010 χ^2/NDF : 194373.7/96

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.723 ± 2.090 $\chi^2/\text{NDF}: 7.8/5$

Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$

Right Out: 0.769 ± 1.716 $\chi^2/\text{NDF}: 26.5/7$

Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.057 ± 0.016 $\chi^2/\text{NDF}: 77.1/46$

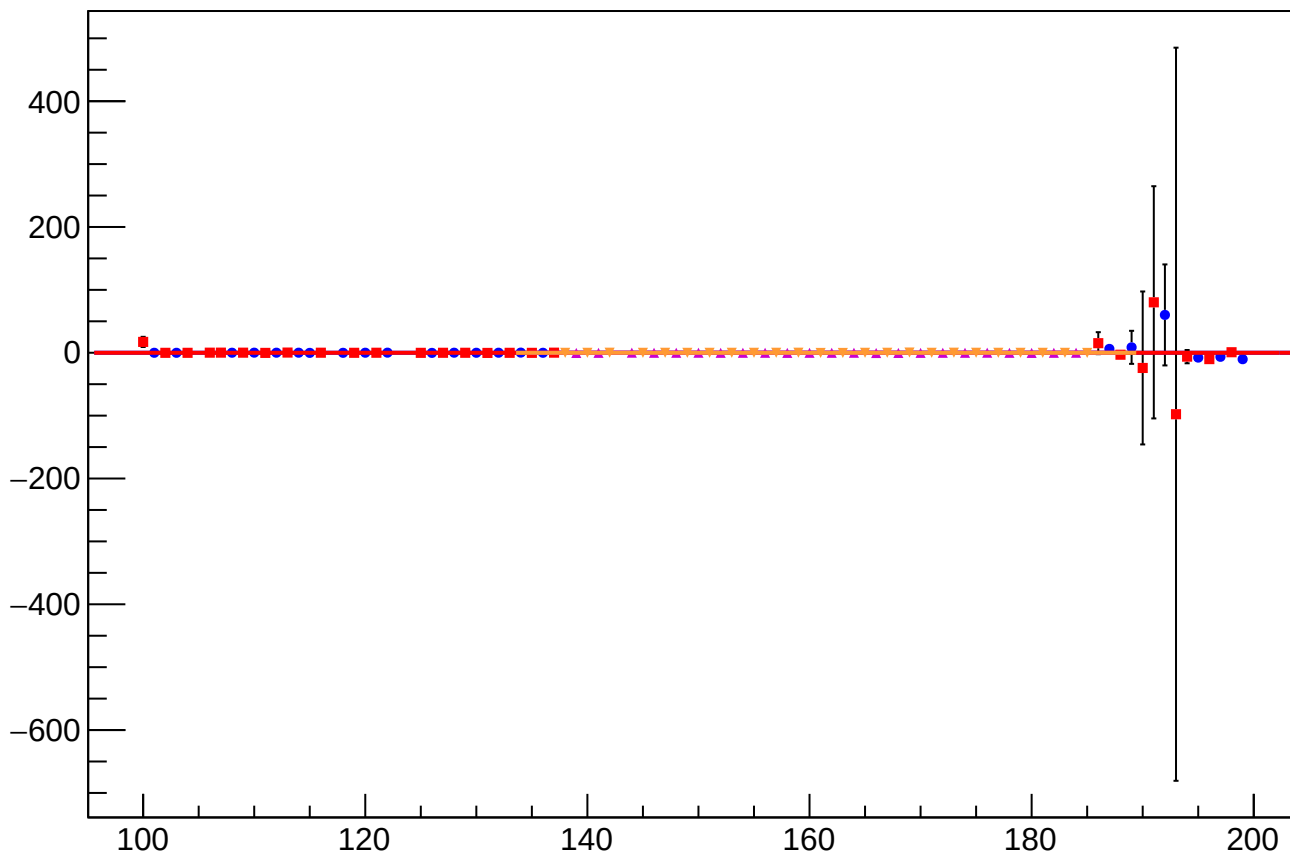
Right: 1.153 ± 1.326 $\chi^2/\text{NDF}: 34.4/13$

In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 41.8/28$

Out: -0.088 ± 0.022 $\chi^2/\text{NDF}: 66.4/31$

All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 112.3/60$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 $\chi^2/\text{NDF}: 21.2/21$

Left Out: -0.081 ± 0.017 $\chi^2/\text{NDF}: 25.8/23$

Right Out: -0.051 ± 0.029 $\chi^2/\text{NDF}: 30.8/25$

Left In: -0.052 ± 0.018 $\chi^2/\text{NDF}: 31.7/22$

Left: -0.067 ± 0.012 $\chi^2/\text{NDF}: 58.9/46$

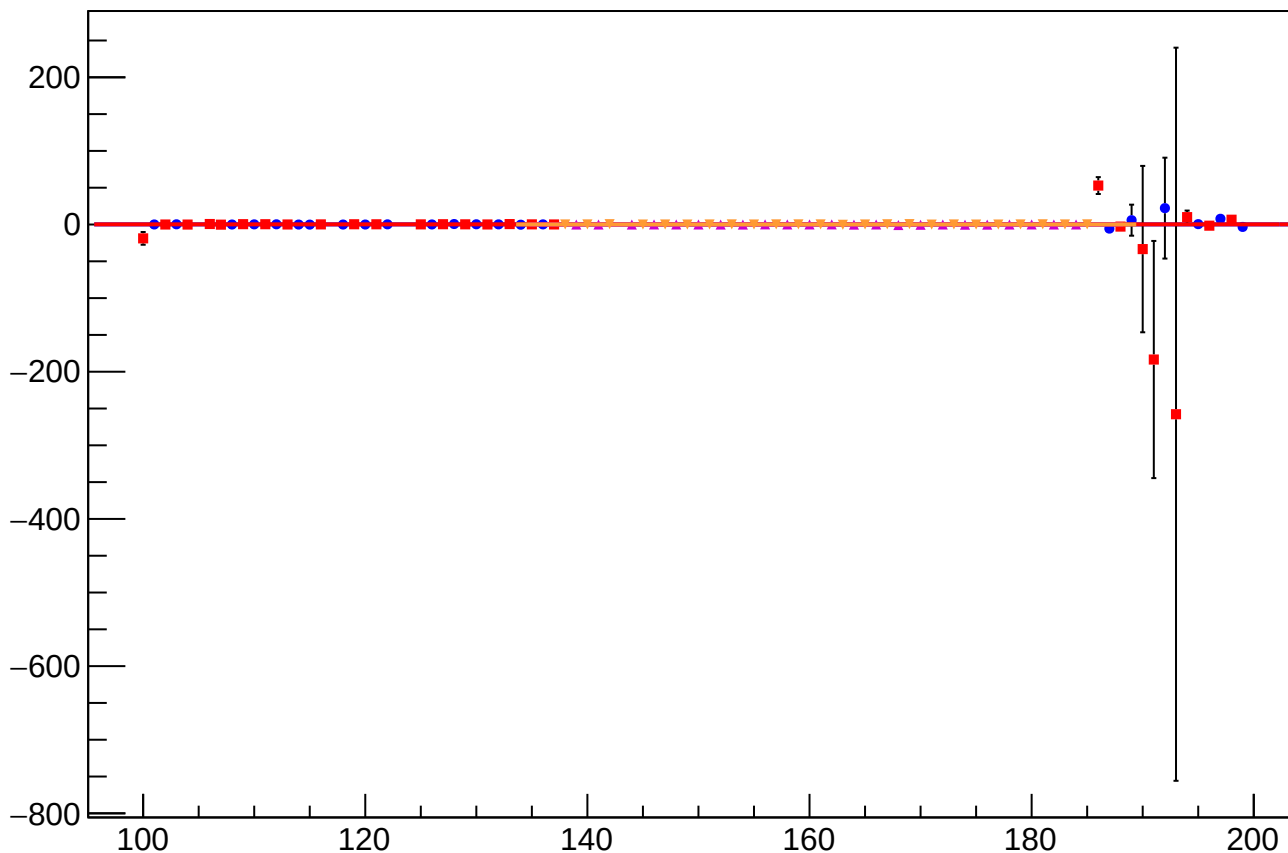
Right: -0.026 ± 0.020 $\chi^2/\text{NDF}: 53.4/47$

In: -0.038 ± 0.015 $\chi^2/\text{NDF}: 55.2/44$

Out: -0.073 ± 0.015 $\chi^2/\text{NDF}: 57.4/49$

All: -0.056 ± 0.011 $\chi^2/\text{NDF}: 115.3/94$

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: 0.234 $\pm$ 0.054 χ^2 /NDF: 50.9/25

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

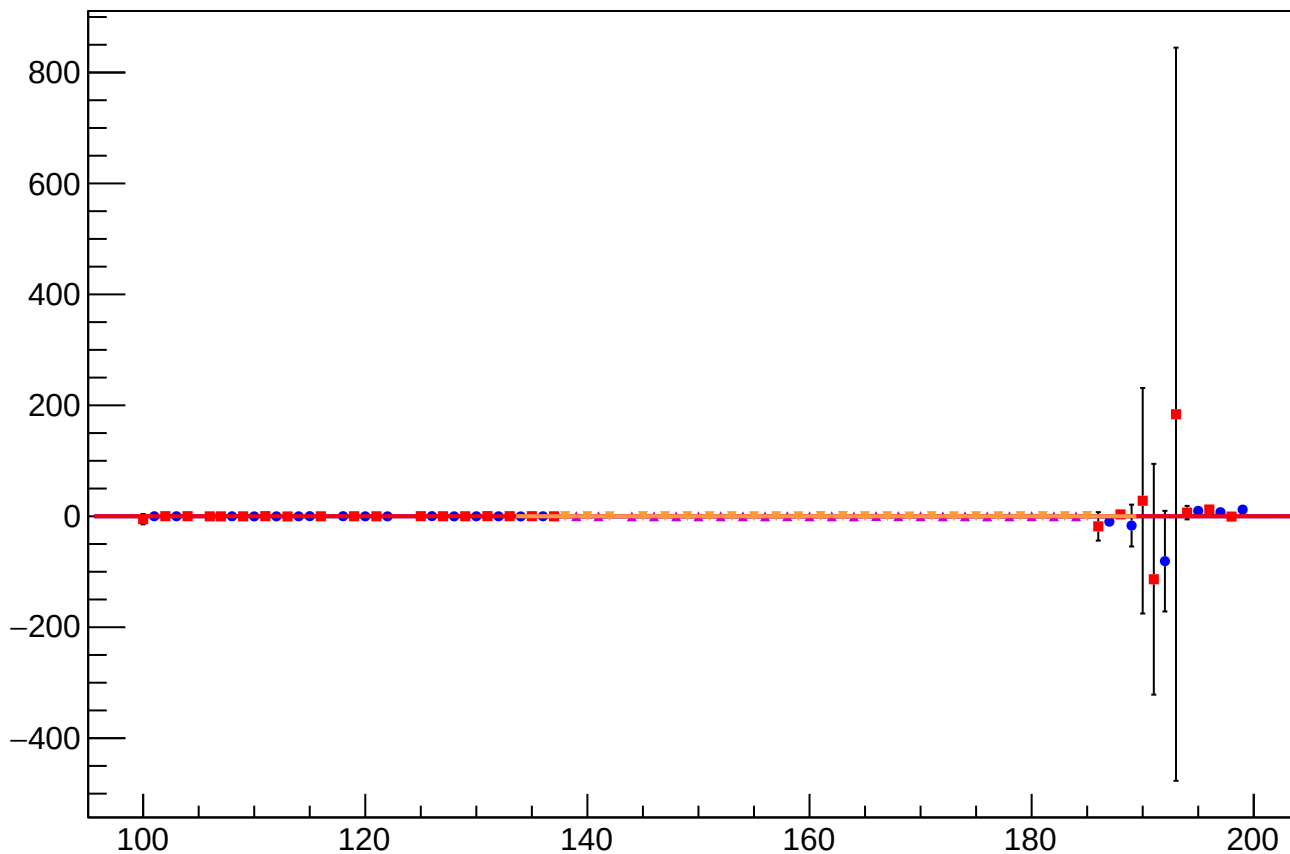
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 74.1/47

In: 0.043 $\pm$ 0.020 χ^2 /NDF:65.2/44

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:96.2/49

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 165.7/94

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.033 χ^2/NDF : 23.4/21

Left Out: 0.105 ± 0.020 χ^2/NDF : 29.5/23

Right Out: 0.057 ± 0.034 χ^2/NDF : 25.2/25

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.088 ± 0.014 χ^2/NDF : 62.5/46

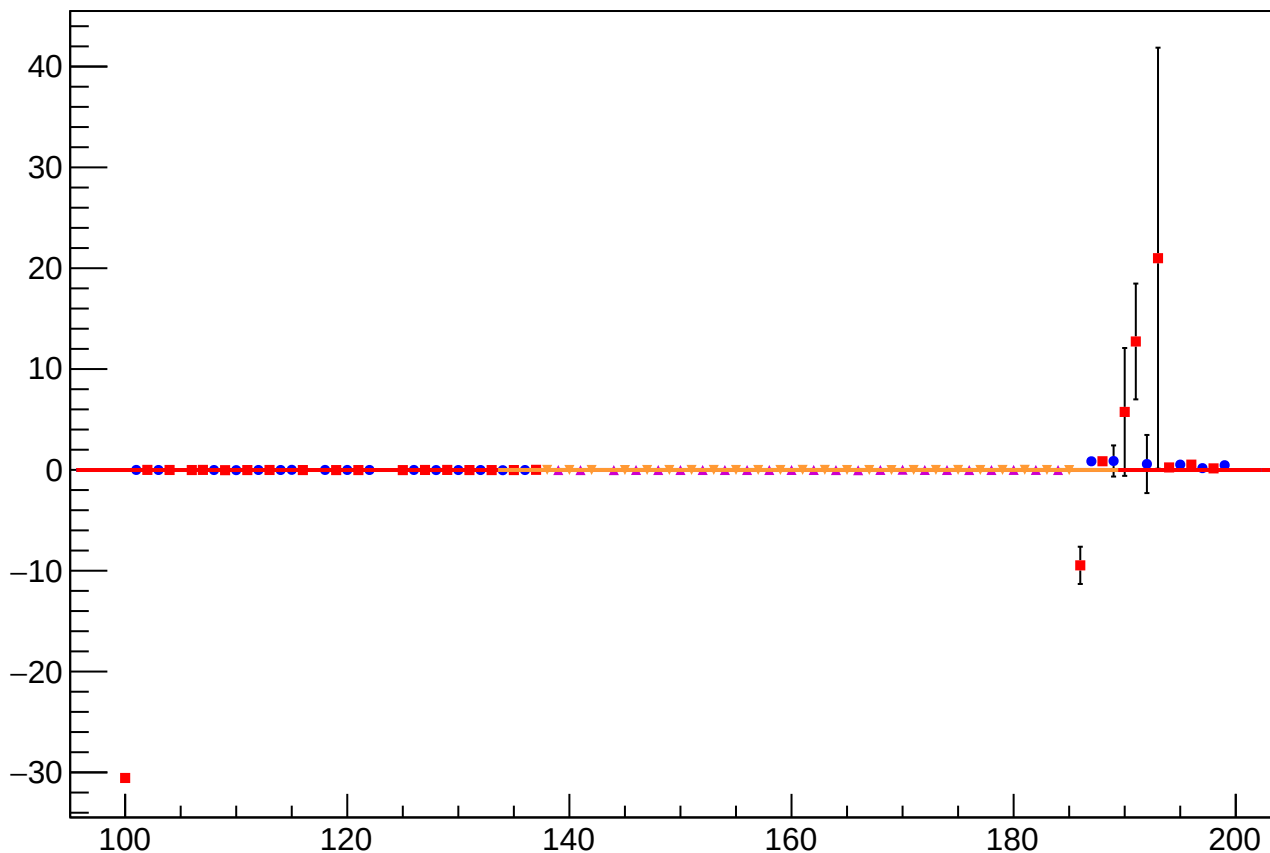
Right: 0.025 ± 0.024 χ^2/NDF : 50.4/47

In: 0.049 ± 0.017 χ^2/NDF : 58.5/44

Out: 0.093 ± 0.017 χ^2/NDF : 56.1/49

All: 0.071 ± 0.012 χ^2/NDF : 118.1/94

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 : 11943.9/25

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

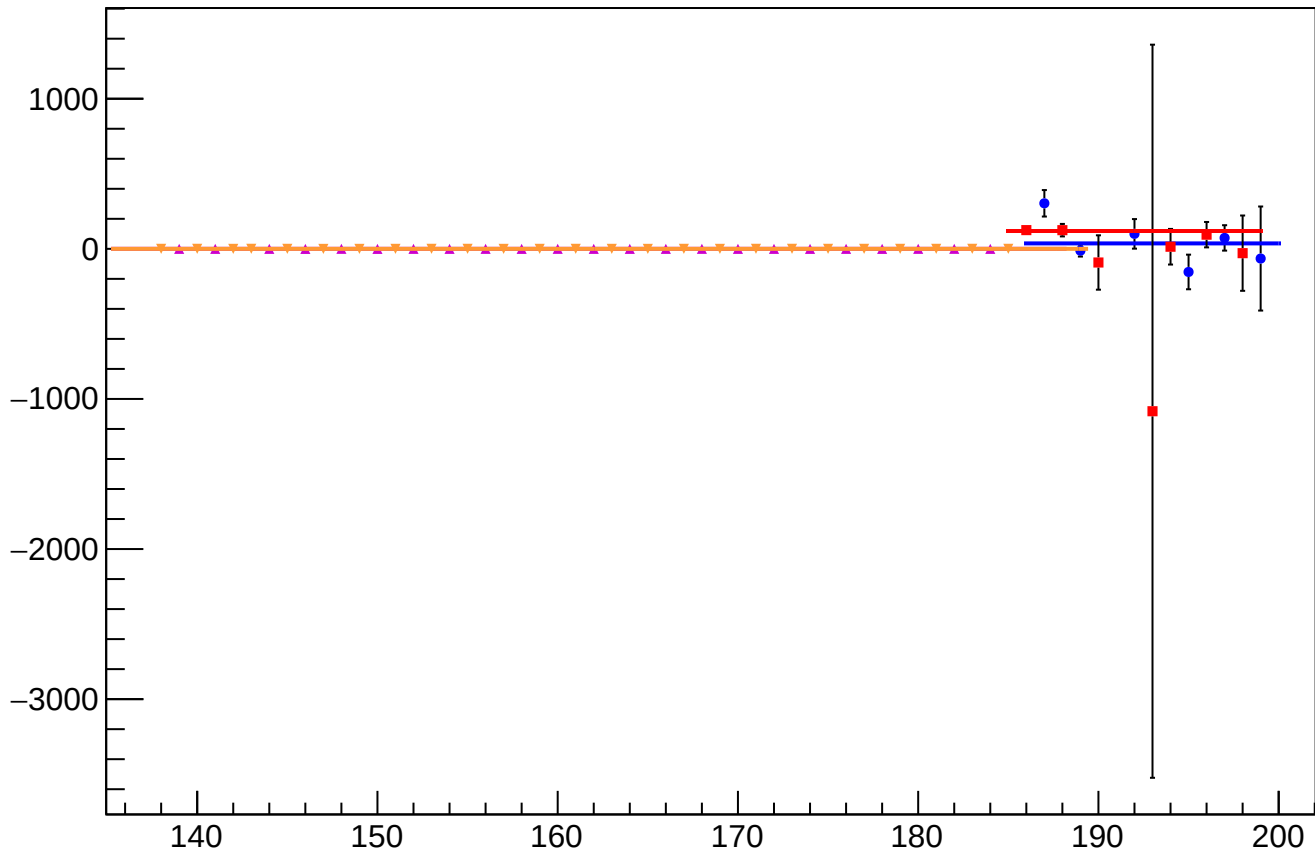
Right: -0.012 ± 0.001 χ^2/NDF : 11975.1/47

In: -0.009 ± 0.001 χ^2/NDF : 74.3/44

Out: -0.009 ± 0.001 χ^2/NDF : 11977.9/49

All: -0.009 ± 0.001 χ^2/NDF : 12052.4/94

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: 118.829 $\pm$ 16.536 χ^2 /NDF: 2.9/6

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

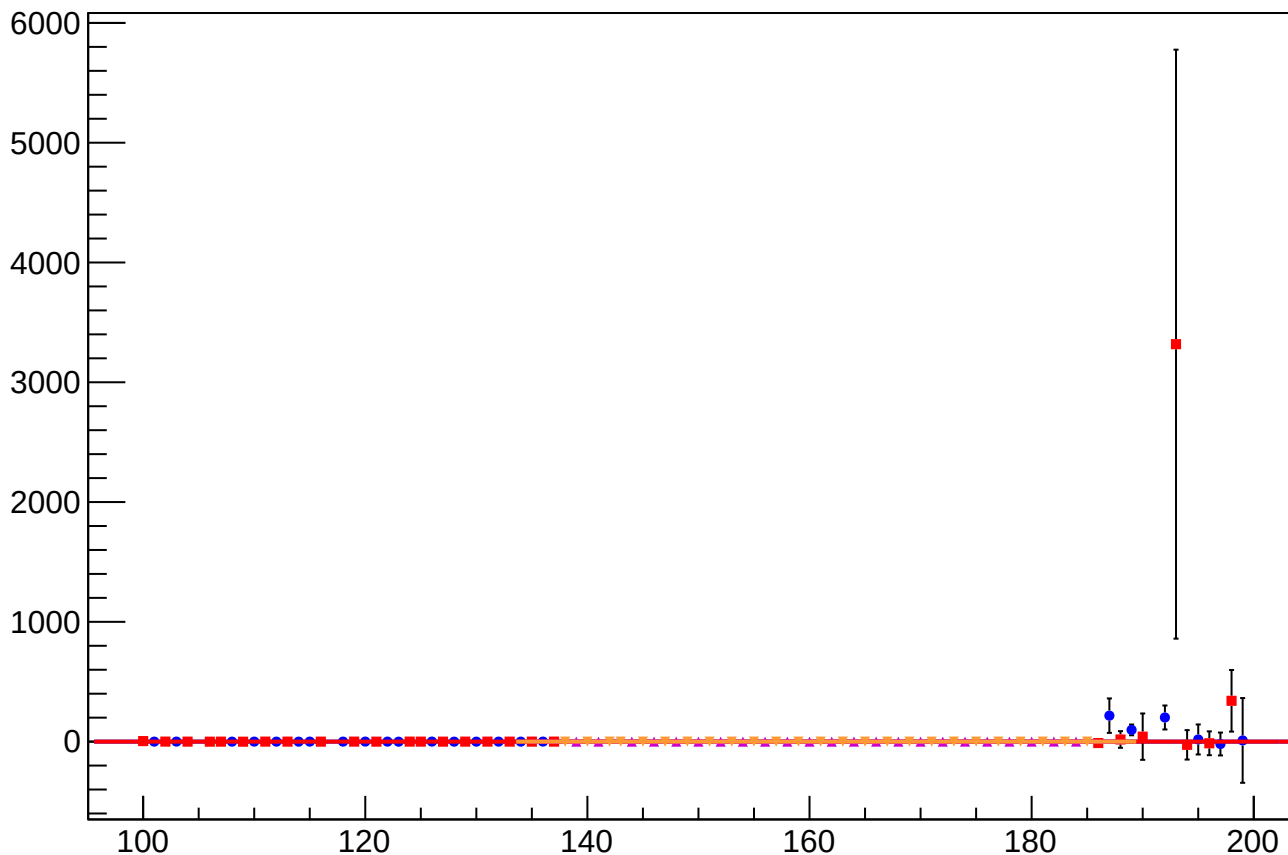
Right: 99.768 $\pm$ 14.504 χ^2 /NDF: 22.7/12

In: 0.002 $\pm$ 0.028 χ^2 /NDF:44.5/28

Out: 0.018 $\pm$ 0.027 χ^2 /NDF:85.5/31

All: 0.010 $\pm$ 0.019 χ^2 /NDF: 130.2/60

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 χ^2/NDF : 34.1/22

Left Out: -0.060 ± 0.021 χ^2/NDF : 24.6/24

Right Out: -0.120 ± 0.039 χ^2/NDF : 22.5/25

Left In: -0.071 ± 0.022 χ^2/NDF : 49.0/22

Left: -0.065 ± 0.015 χ^2/NDF : 73.7/47

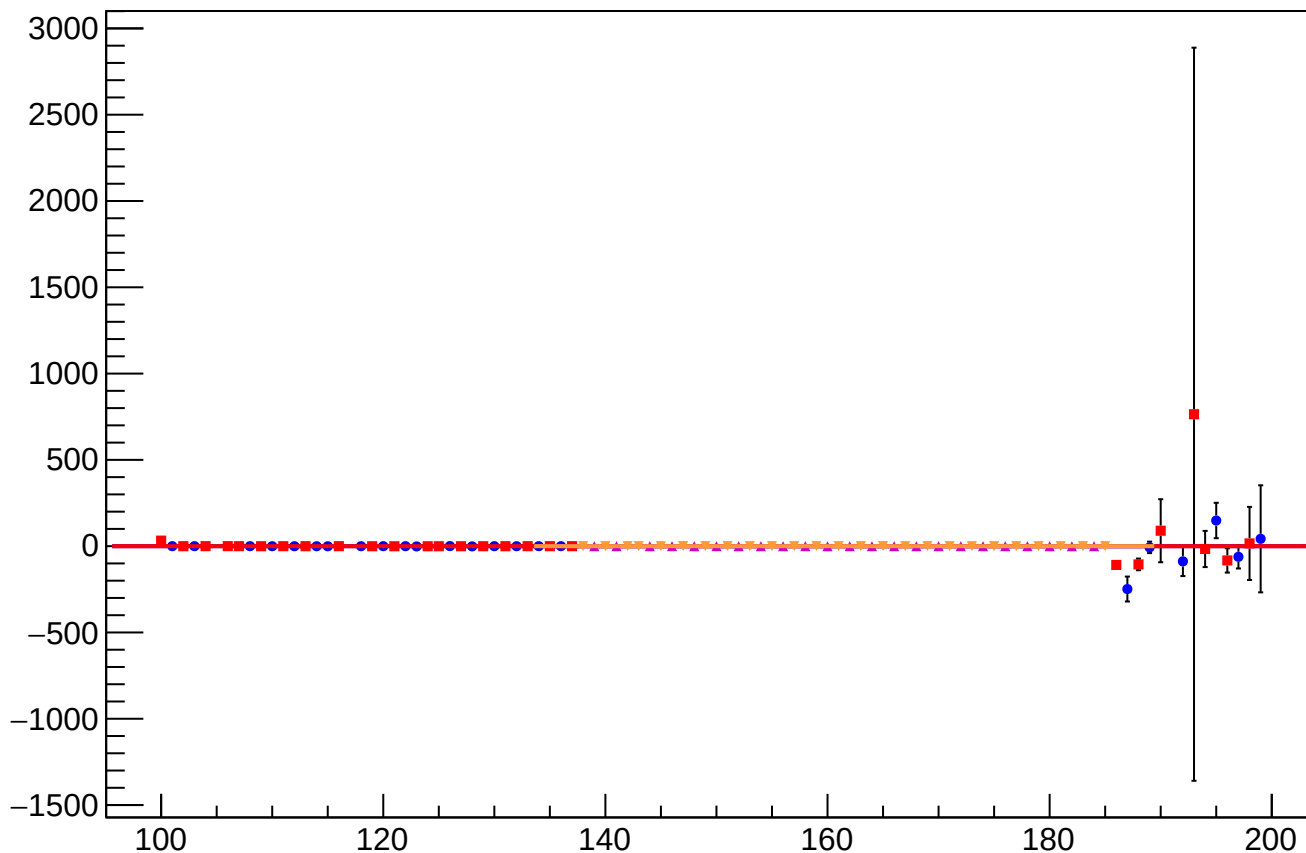
Right: -0.068 ± 0.027 χ^2/NDF : 59.9/48

In: -0.058 ± 0.019 χ^2/NDF : 84.4/45

Out: -0.073 ± 0.019 χ^2/NDF : 49.0/50

All: -0.066 ± 0.013 χ^2/NDF : 133.7/96

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 $\chi^2/\text{NDF}: 77.6/25$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

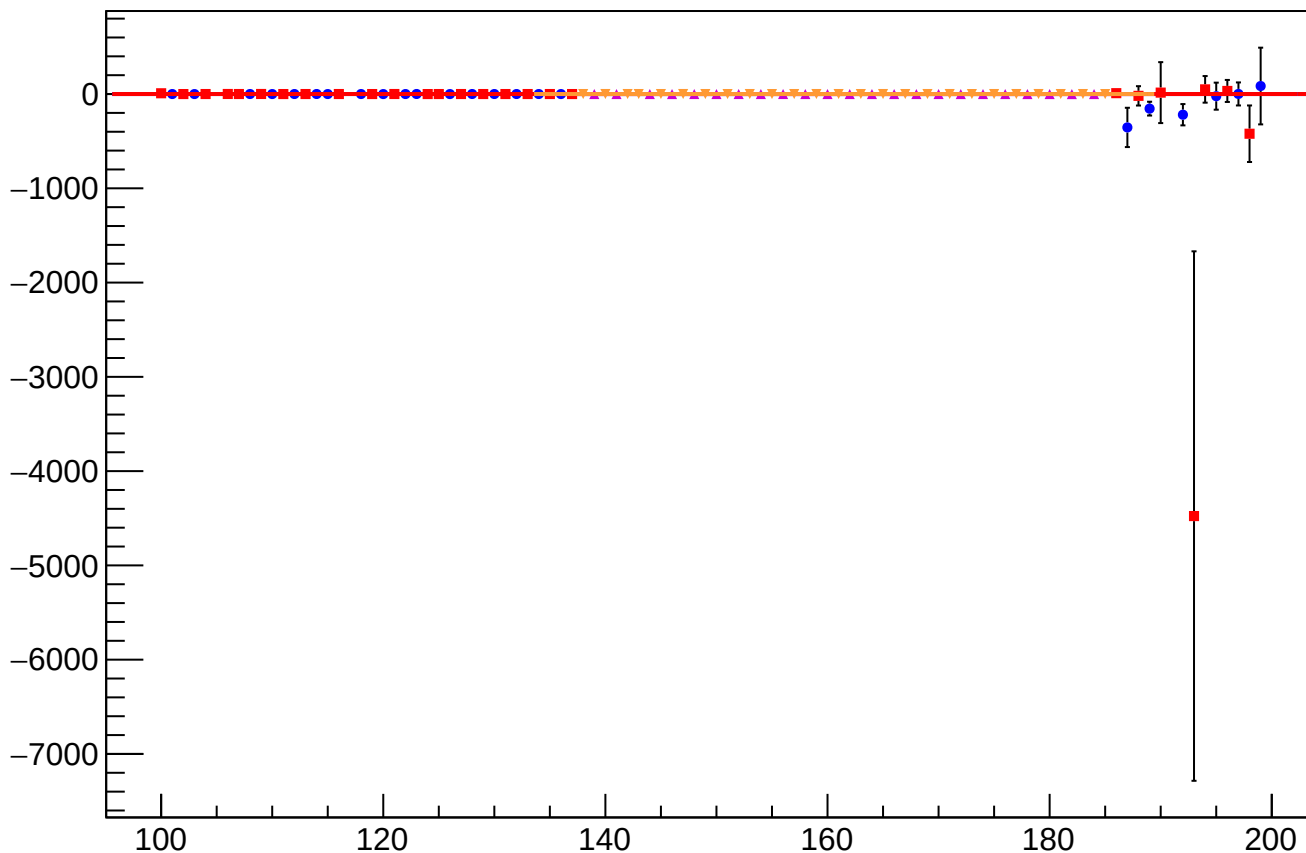
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 118.4/48$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 71.1/45$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 110.5/50$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 181.7/96$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 32.8/22

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 21.6/25

Left In: 0.069 $\pm$ 0.025 χ^2 /NDF:51.8/22

Left: 0.066 $\pm$ 0.017 χ^2 /NDF: 76.5/47

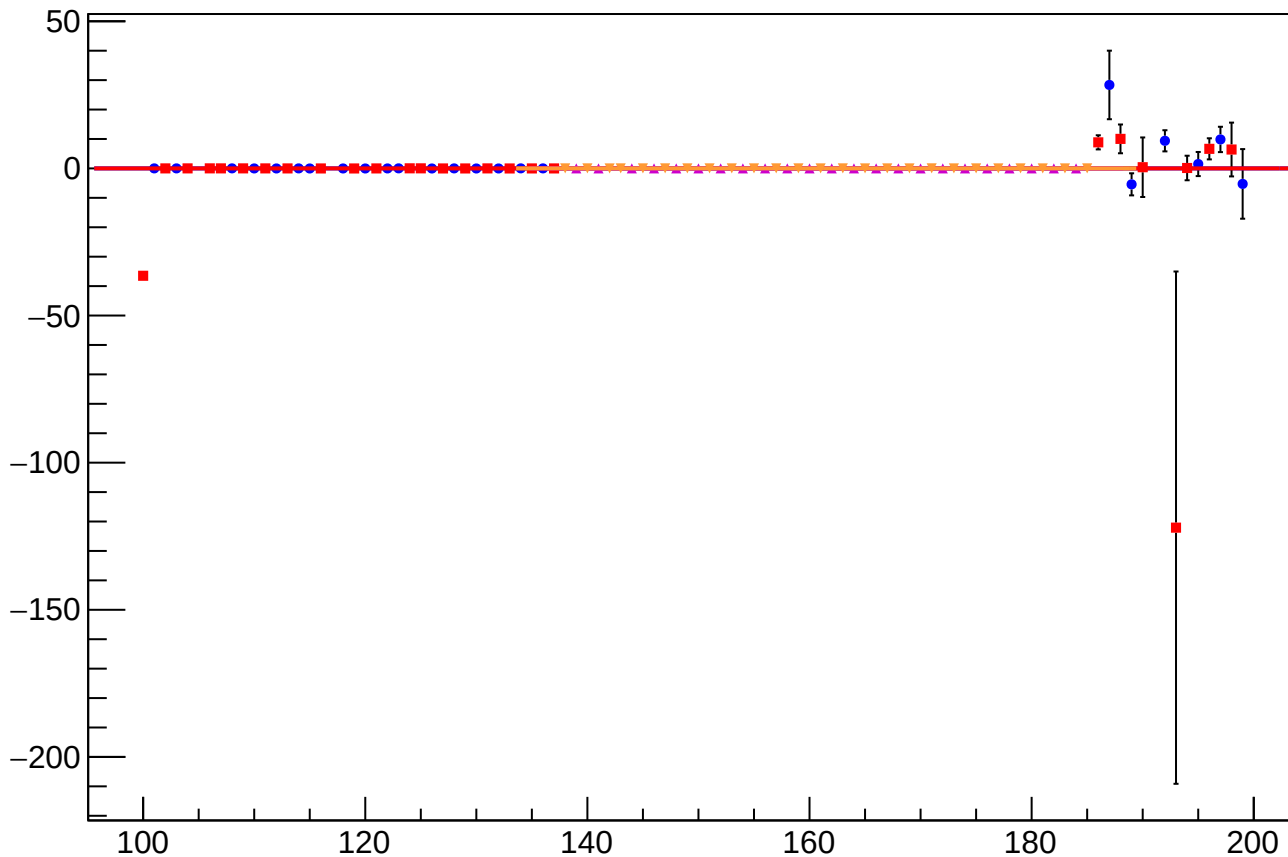
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 58.5/48

In: 0.056 $\pm$ 0.021 χ^2 /NDF:85.7/45

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:48.8/50

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 135.1/96

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: 10472.8/25

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

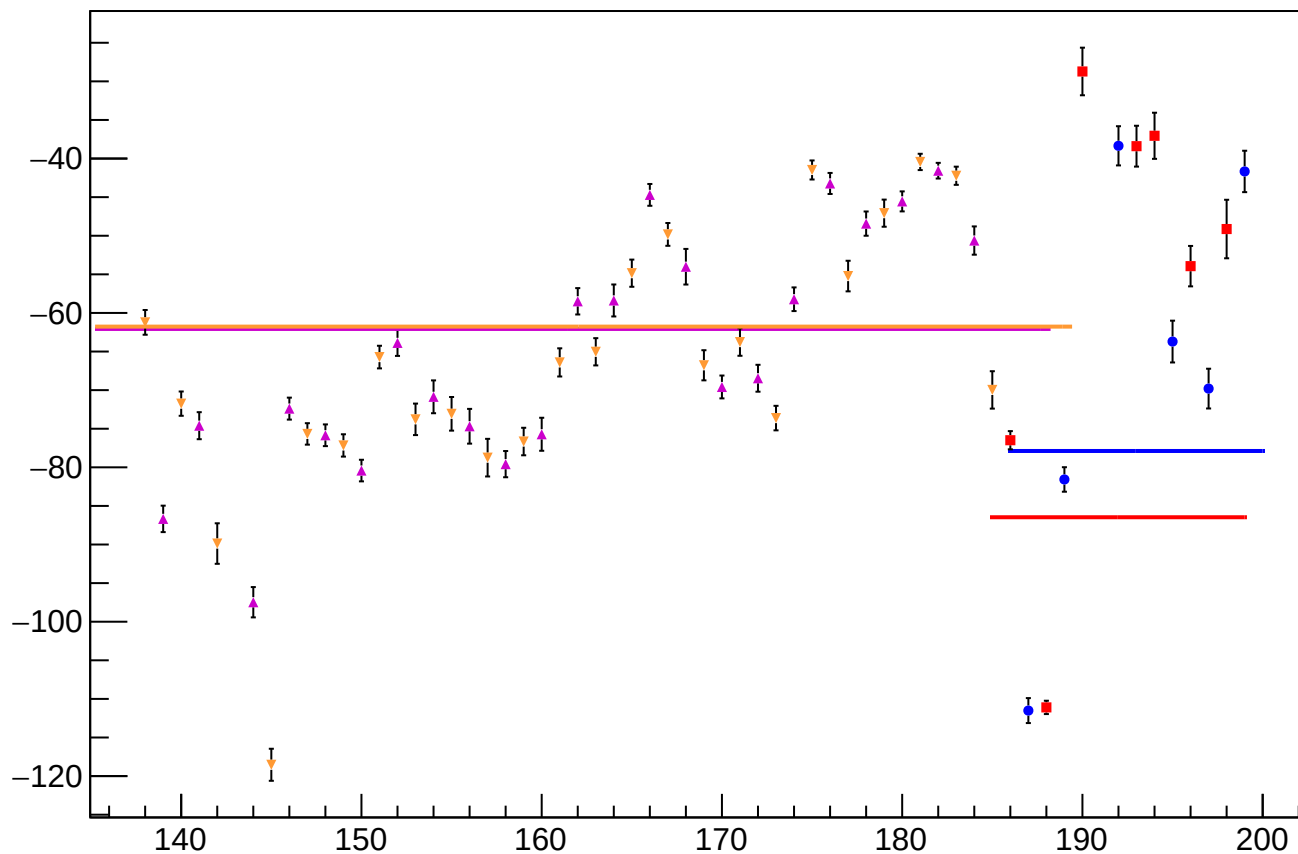
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10523.7/48

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 75.3/45

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10508.1/50

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10583.5/96

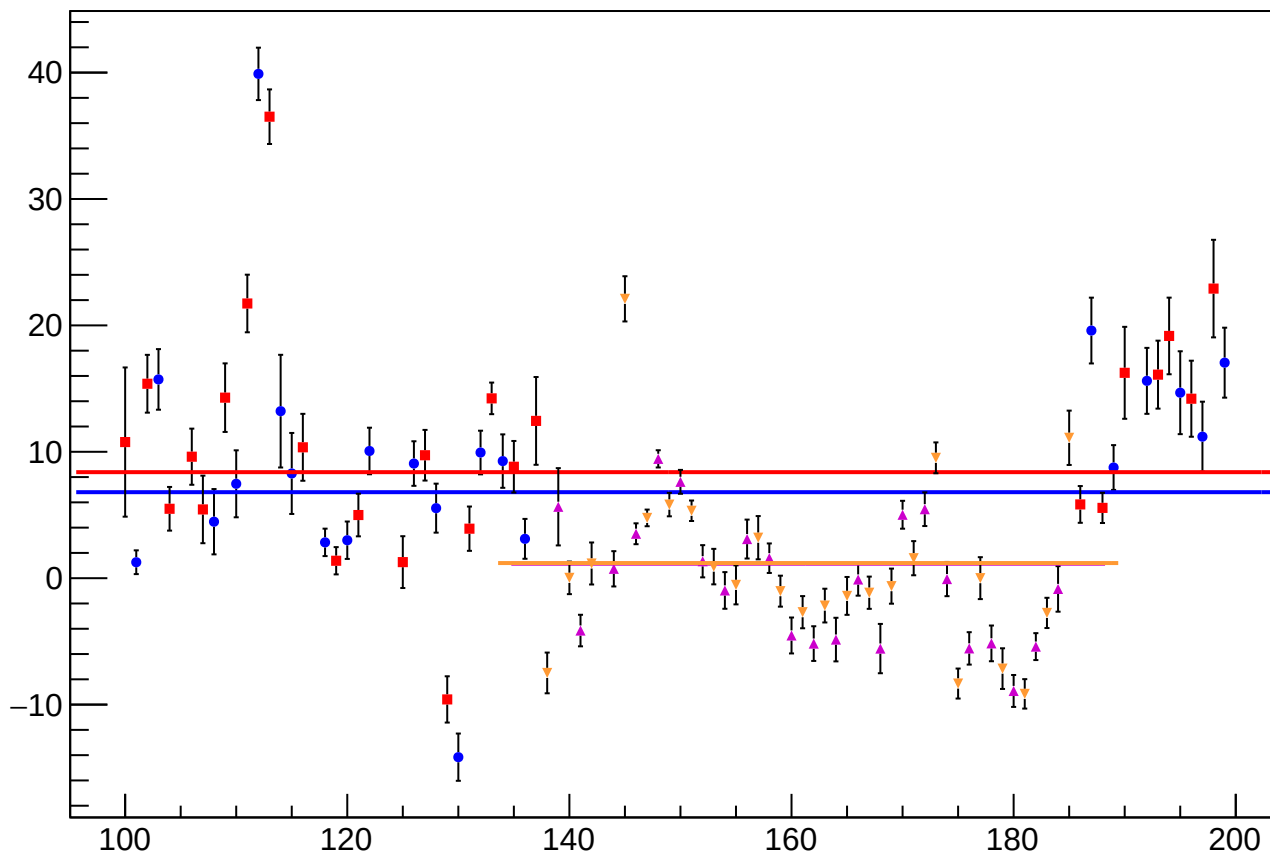
reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



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: -86.468 ± 0.616 $\chi^2/\text{NDF}: 2090.0/6$
 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: -83.544 ± 0.500 $\chi^2/\text{NDF}: 3055.8/12$
 In: -64.138 ± 0.310 $\chi^2/\text{NDF}: 3387.2/28$
 Out: -67.378 ± 0.294 $\chi^2/\text{NDF}: 5837.1/30$
 All: -65.846 ± 0.213 $\chi^2/\text{NDF}: 9281.9/59$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.805 $\pm$ 0.396 χ^2 /NDF: 526.4/21

Left Out: 1.198 $\pm$ 0.253 χ^2 /NDF: 526.3/23

Right Out: 8.389 $\pm$ 0.391 χ^2 /NDF: 460.1/24

Left In: 1.146 $\pm$ 0.255 χ^2 /NDF: 462.9/22

Left: 1.172 $\pm$ 0.180 χ^2 /NDF: 989.3/46

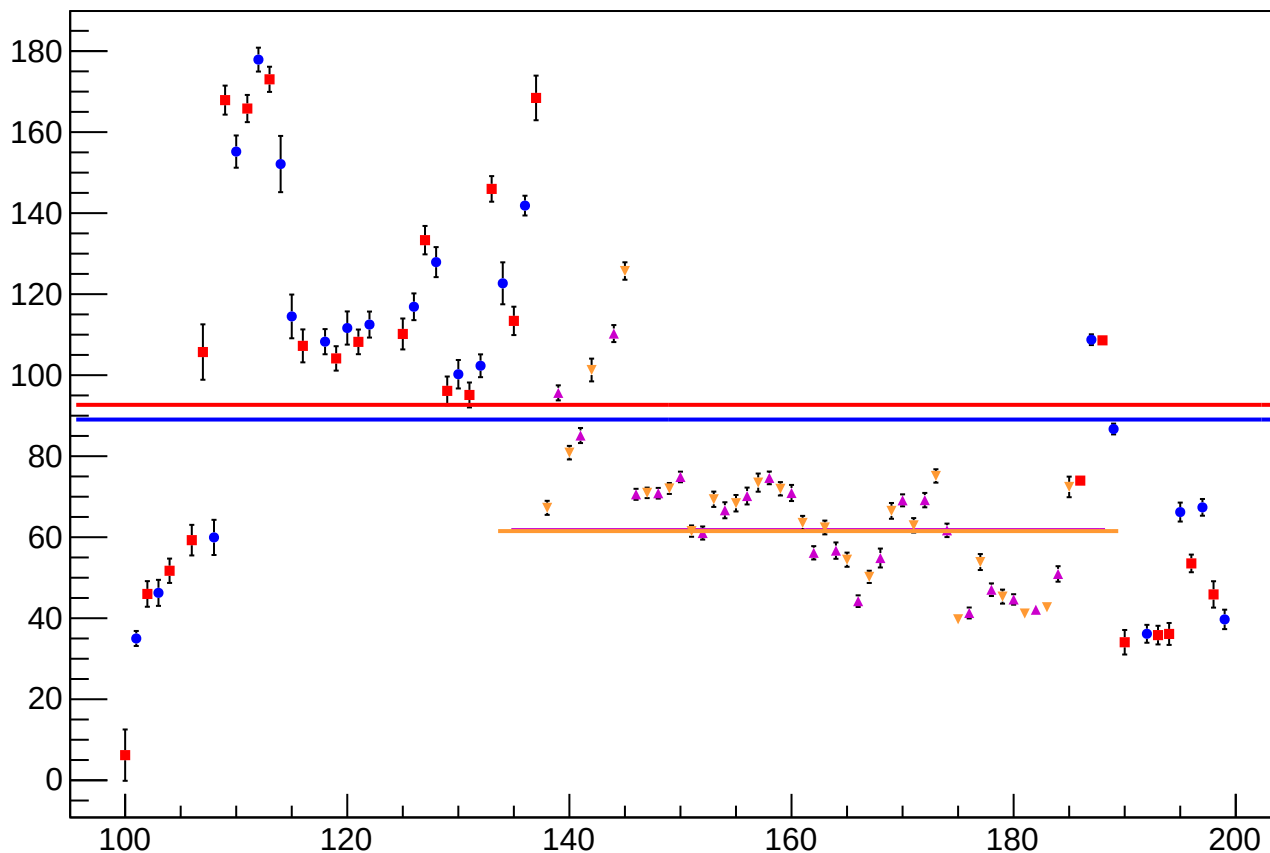
Right: 7.607 $\pm$ 0.278 χ^2 /NDF: 994.6/46

In: 2.809 $\pm$ 0.215 χ^2 /NDF: 1133.7/44

Out: 3.315 $\pm$ 0.212 χ^2 /NDF: 1225.1/48

All: 3.065 $\pm$ 0.151 χ^2 /NDF: 2361.6/93

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 89.048+/-0.539 χ^2/NDF : 4633.7/21

Left Out: 61.512+/-0.332 χ^2/NDF : 2606.0/23

Right Out: 92.678+/-0.432 χ^2/NDF : 5846.6/24

Left In: 61.762+/-0.330 χ^2/NDF : 2418.2/22

Left: 61.638+/-0.234 χ^2/NDF : 5024.5/46

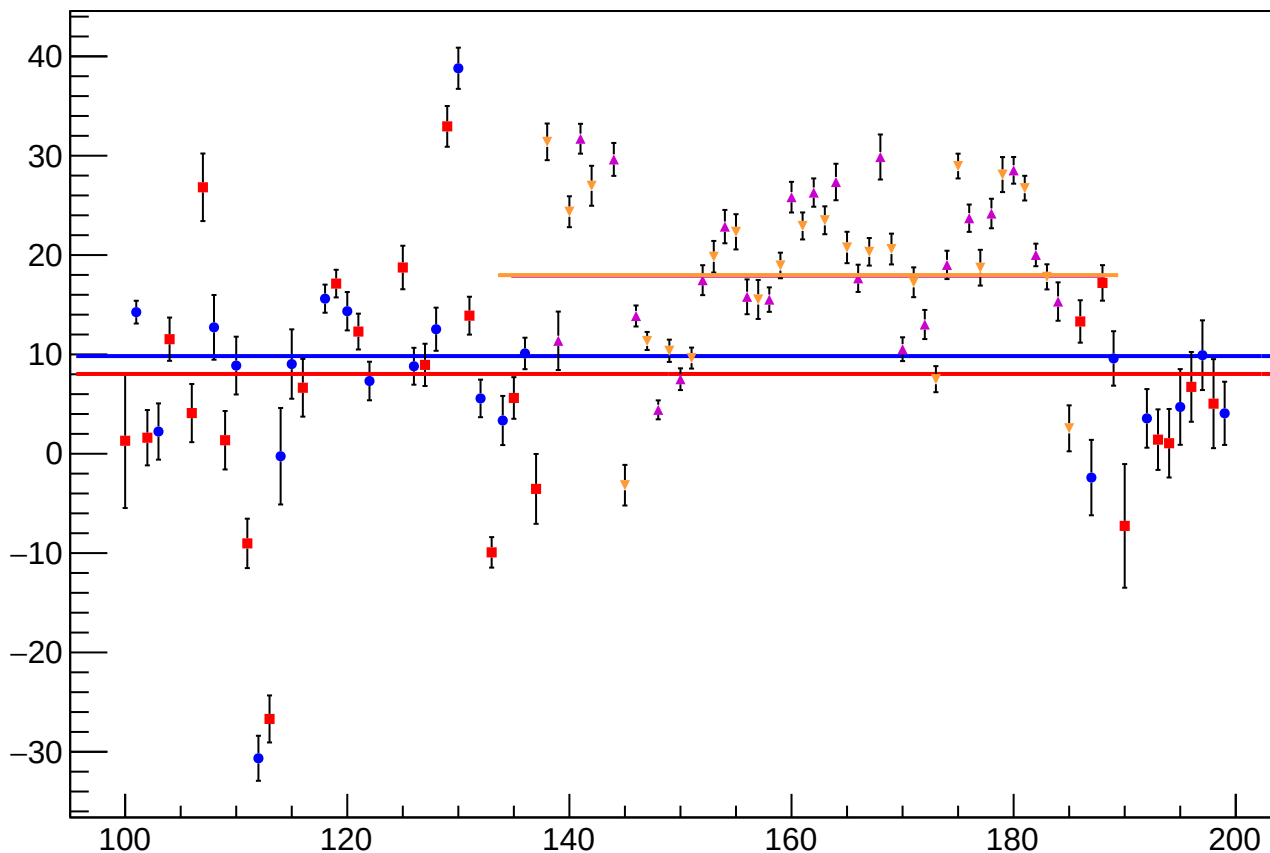
Right: 91.261+/-0.337 χ^2/NDF : 10507.9/46

In: 69.193+/-0.281 χ^2/NDF : 8914.2/44

Out: 73.111+/-0.263 χ^2/NDF : 11725.9/48

All: 71.283+/-0.192 χ^2/NDF : 20743.4/93

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: 8.031 ± 0.470 $\chi^2/\text{NDF}: 735.5/24$

Left In: 17.916 ± 0.292 $\chi^2/\text{NDF}: 726.5/22$

Left: 17.948 ± 0.206 $\chi^2/\text{NDF}: 1400.9/46$

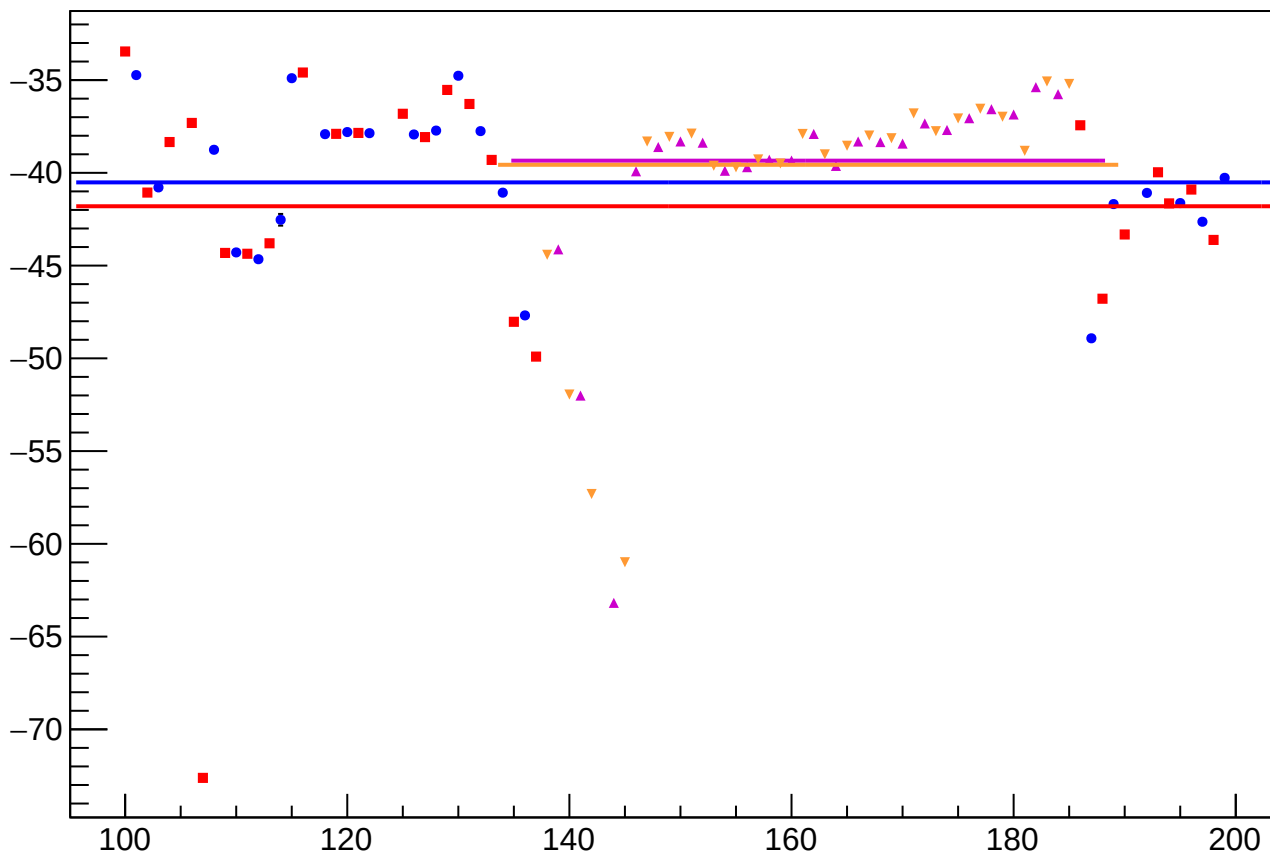
Right: 8.938 ± 0.331 $\chi^2/\text{NDF}: 1342.4/46$

In: 15.636 ± 0.248 $\chi^2/\text{NDF}: 1541.7/44$

Out: 15.227 ± 0.247 $\chi^2/\text{NDF}: 1733.6/48$

All: 15.432 ± 0.175 $\chi^2/\text{NDF}: 3276.6/93$

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: -41.801 ± 0.024 $\chi^2/\text{NDF}: 66171.0/24$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$

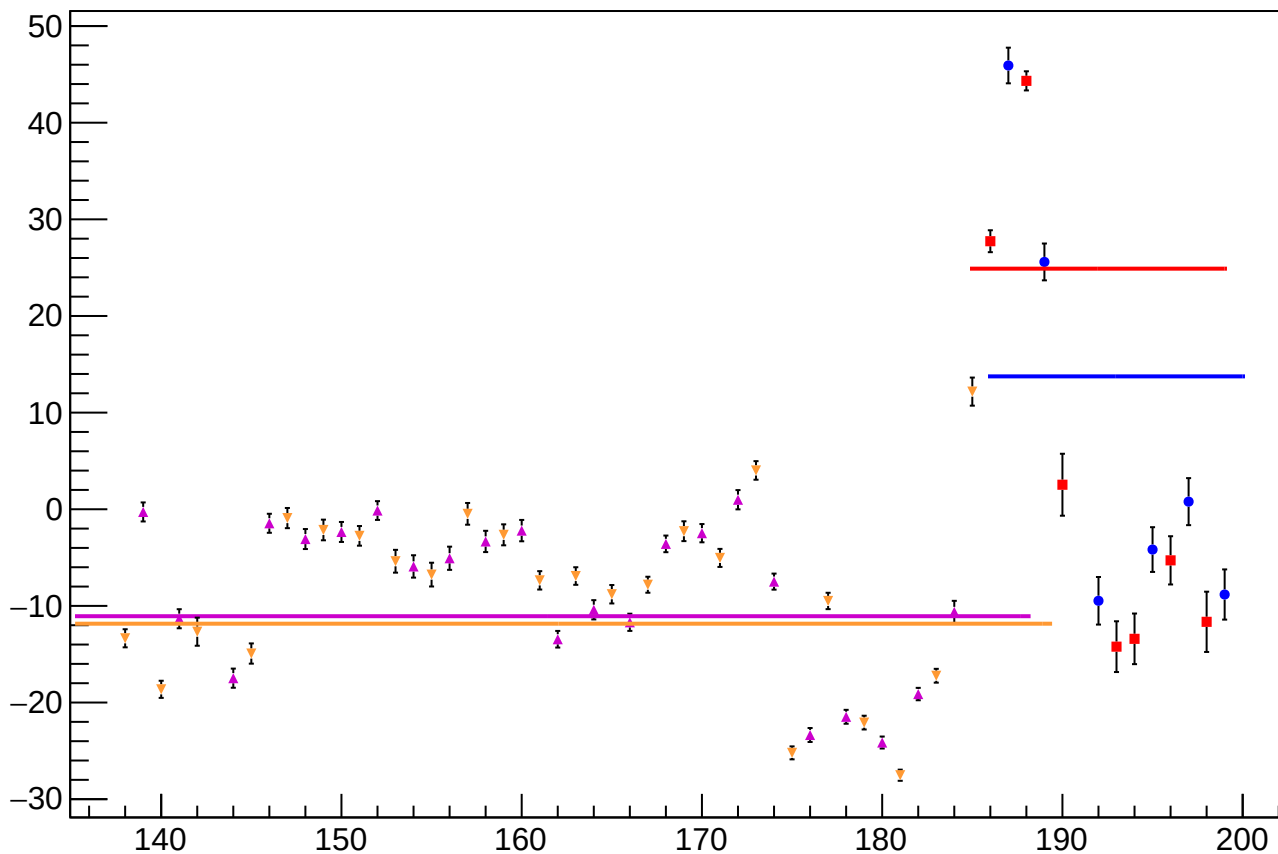
Right: -41.168 ± 0.017 $\chi^2/\text{NDF}: 94933.2/46$

In: -39.624 ± 0.012 $\chi^2/\text{NDF}: 145721.9/44$

Out: -40.122 ± 0.012 $\chi^2/\text{NDF}: 213960.2/48$

All: -39.872 ± 0.008 $\chi^2/\text{NDF}: 360560.8/93$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



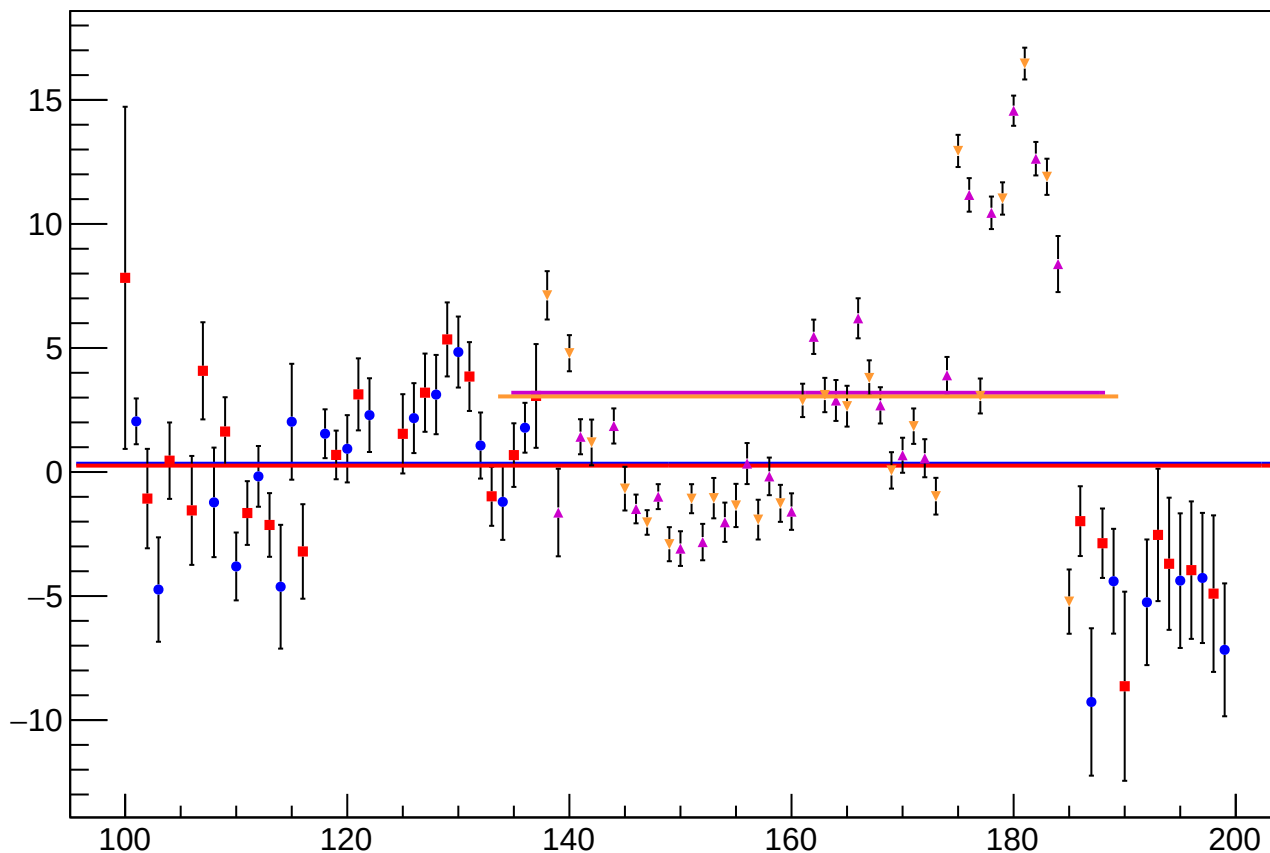
Right In: 13.750 ± 0.899 $\chi^2/\text{NDF}: 595.5/5$
 Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$
 Right Out: 24.897 ± 0.639 $\chi^2/\text{NDF}: 1159.4/6$
 Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$
 Right: 21.153 ± 0.521 $\chi^2/\text{NDF}: 1857.0/12$

In: -10.027 ± 0.184 $\chi^2/\text{NDF}: 3430.7/28$
 Out: -8.950 ± 0.179 $\chi^2/\text{NDF}: 6943.6/30$

All: -9.475 ± 0.128 $\chi^2/\text{NDF}: 10391.8/59$

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: 0.258 ± 0.323 χ^2/NDF : 66.9/24

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

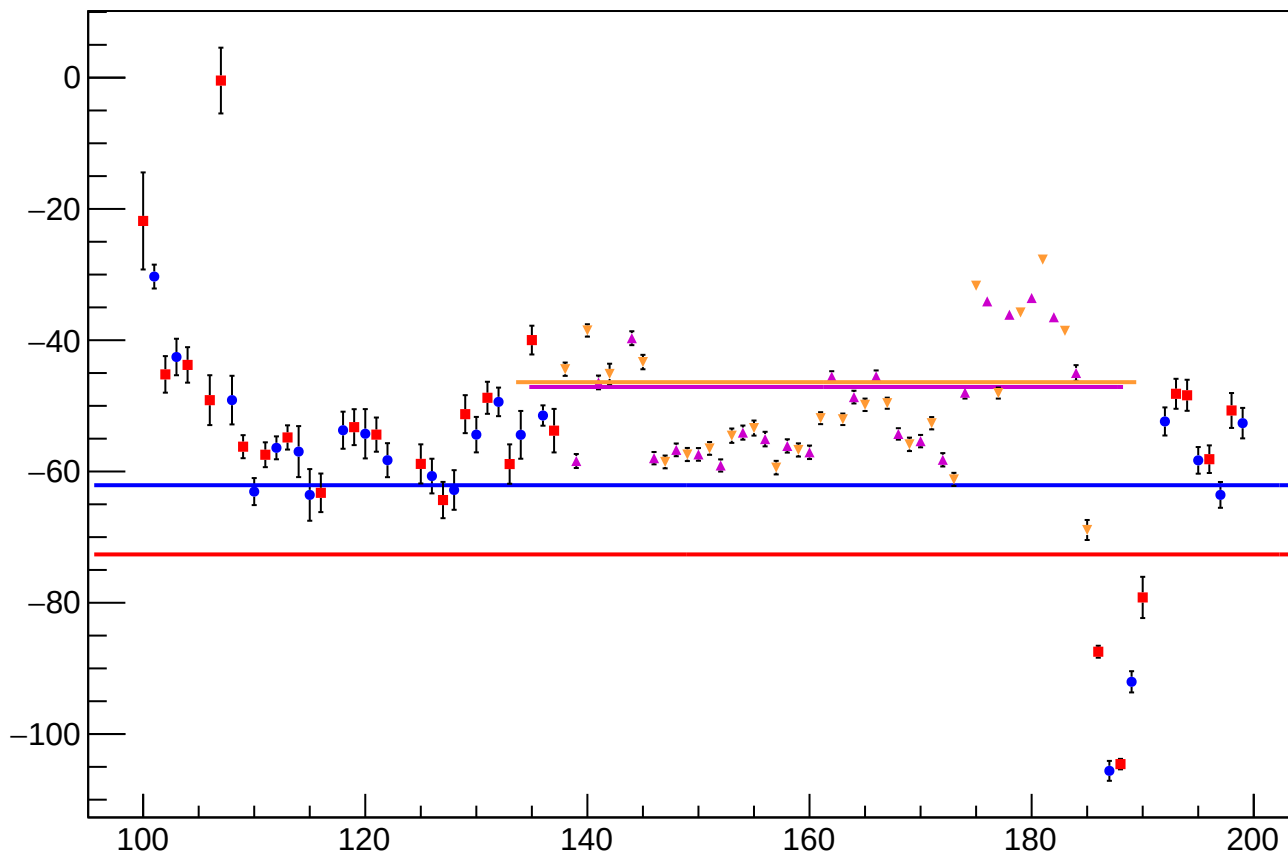
Right: 0.296 ± 0.229 χ^2/NDF : 146.3/46

In: 2.693 ± 0.136 χ^2/NDF : 1438.0/44

Out: 2.564 ± 0.134 χ^2/NDF : 1585.8/48

All: 2.627 ± 0.096 χ^2/NDF : 3024.3/93

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: -72.635 ± 0.400 χ^2/NDF : 3522.3/24

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

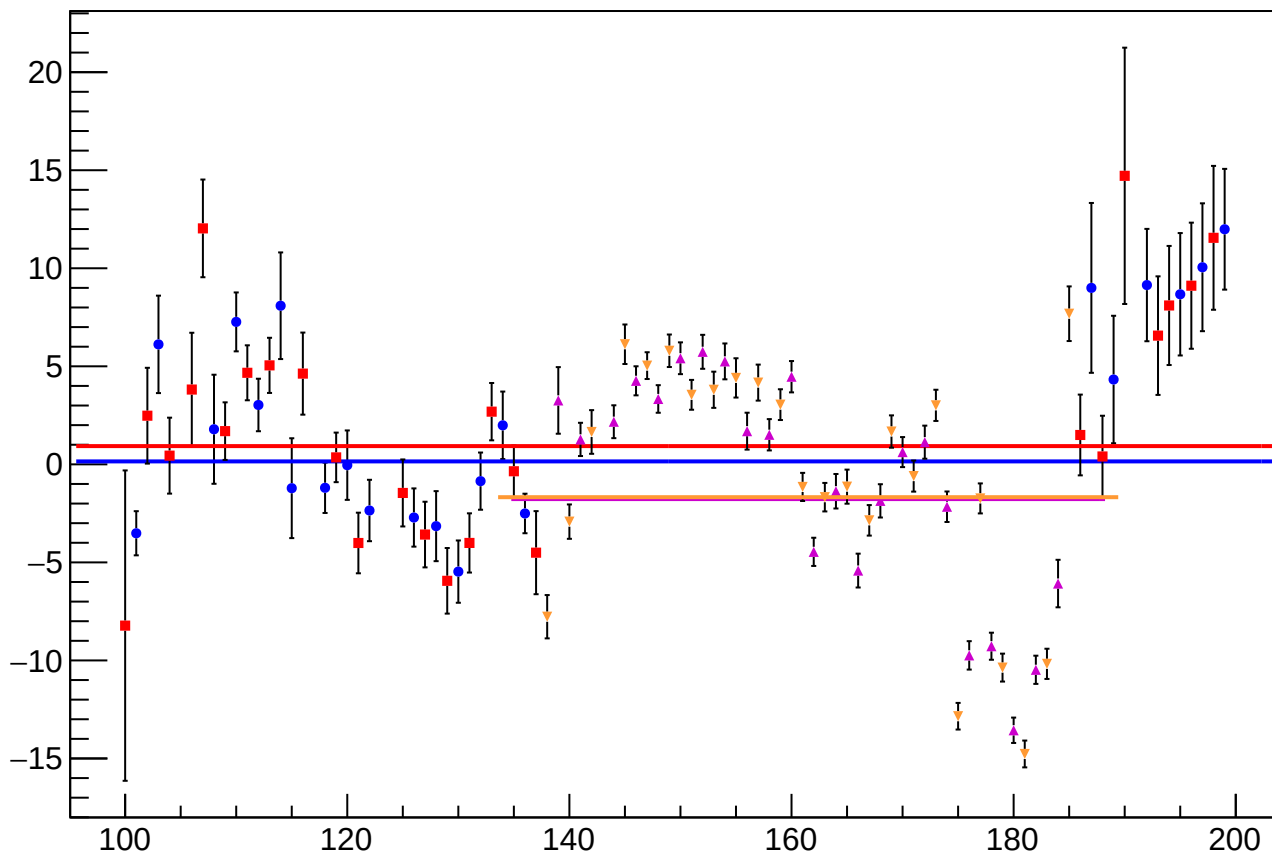
Right: -68.298 ± 0.307 χ^2/NDF : 5505.3/46

In: -49.111 ± 0.174 χ^2/NDF : 5060.5/44

Out: -51.077 ± 0.169 χ^2/NDF : 10340.9/48

All: -50.124 ± 0.121 χ^2/NDF : 15466.9/93

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: 0.931 ± 0.375 χ^2/NDF : 126.4/24

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.723 ± 0.119 χ^2/NDF : 2735.2/46

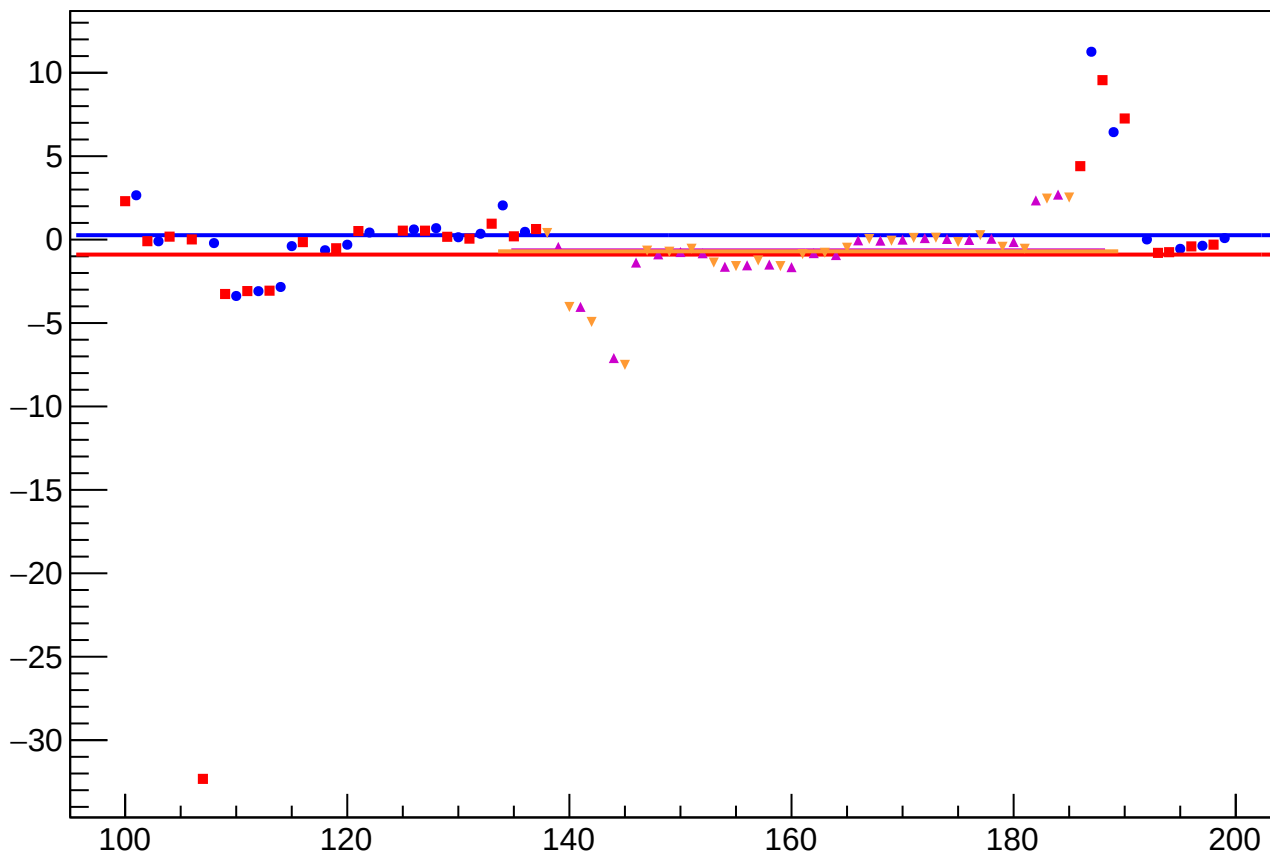
Right: 0.538 ± 0.264 χ^2/NDF : 260.2/46

In: -1.442 ± 0.154 χ^2/NDF : 1405.0/44

Out: -1.243 ± 0.153 χ^2/NDF : 1650.5/48

All: -1.342 ± 0.108 χ^2/NDF : 3056.4/93

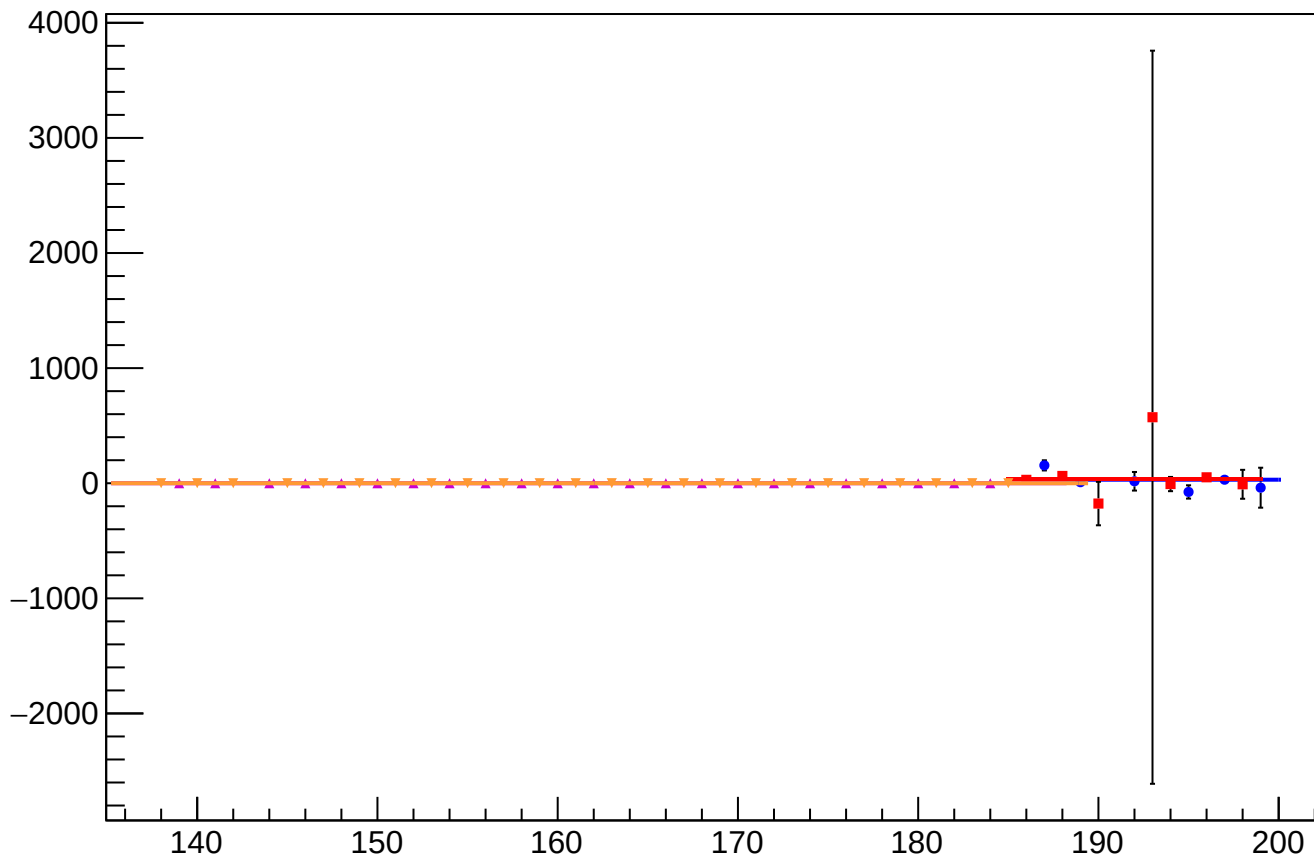
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.265 ± 0.019 $\chi^2/\text{NDF}: 9231.8/21$
 Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$
 Right Out: -0.897 ± 0.019 $\chi^2/\text{NDF}: 92293.2/24$
 Left In: -0.644 ± 0.008 $\chi^2/\text{NDF}: 44169.2/22$

Left: -0.673 ± 0.005 $\chi^2/\text{NDF}: 98032.6/46$
 Right: -0.319 ± 0.014 $\chi^2/\text{NDF}: 103326.0/46$
 In: -0.521 ± 0.007 $\chi^2/\text{NDF}: 55298.3/44$
 Out: -0.728 ± 0.007 $\chi^2/\text{NDF}: 146216.4/48$
 All: -0.625 ± 0.005 $\chi^2/\text{NDF}: 201938.0/93$

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: 36.730+/-9.979 χ^2/NDF : 4.0/6

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.024+/-0.013 χ^2/NDF : 71.7/46

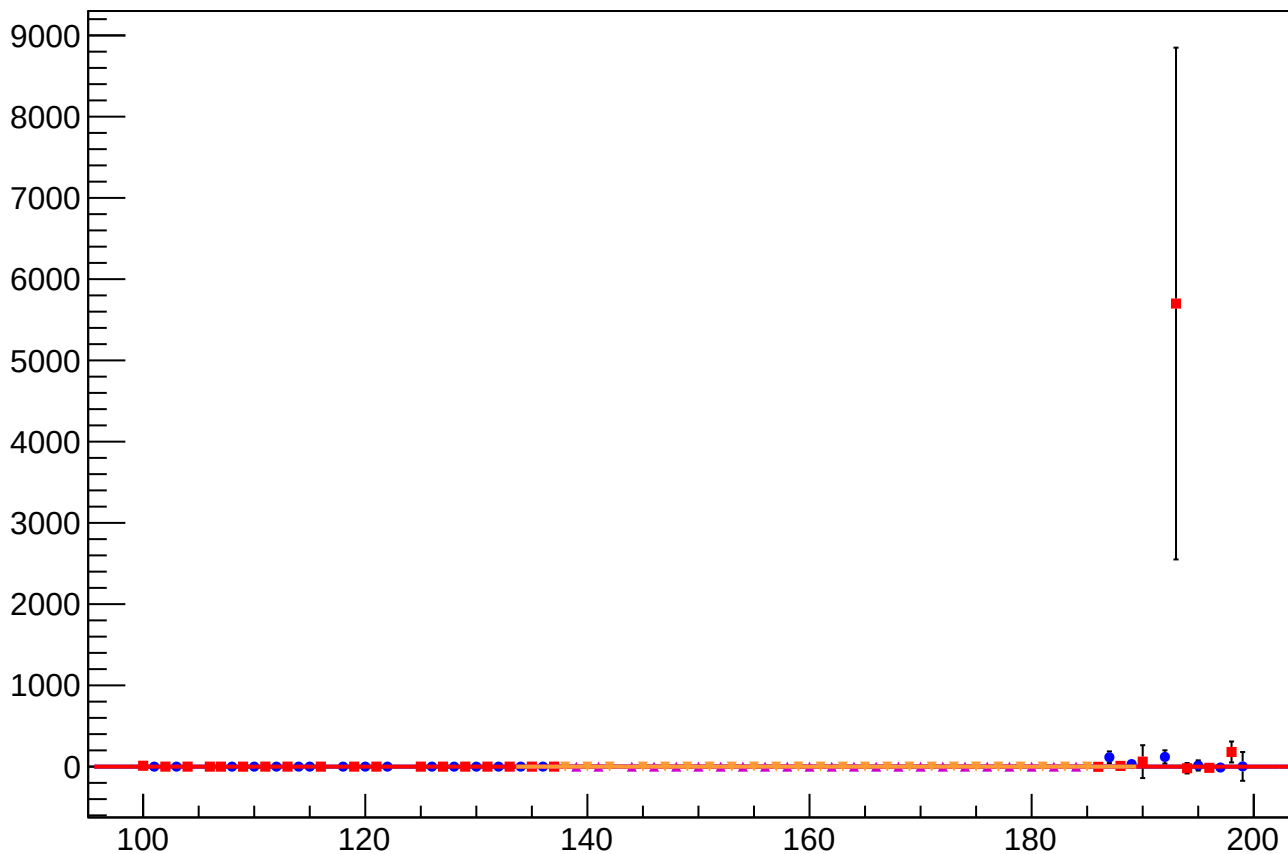
Right: 35.394+/-8.817 χ^2/NDF : 16.2/12

In: -0.010+/-0.018 χ^2/NDF : 49.9/28

Out: -0.037+/-0.018 χ^2/NDF : 53.0/30

All: -0.024+/-0.013 χ^2/NDF : 104.0/59

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 17.8/21

Left Out: -0.073 ± 0.014 χ^2/NDF : 27.8/23

Right Out: -0.088 ± 0.025 χ^2/NDF : 18.5/24

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.068 ± 0.010 χ^2/NDF : 69.1/46

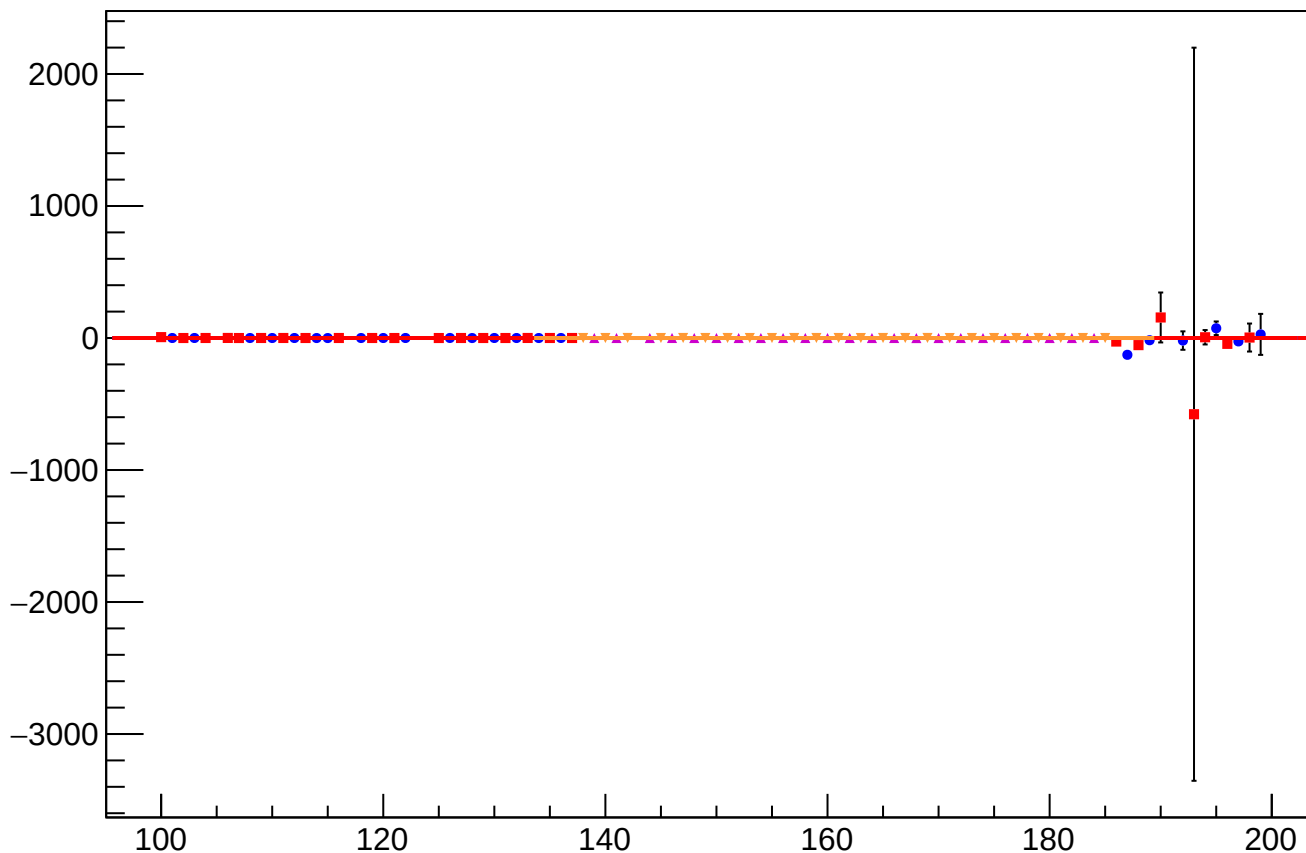
Right: -0.049 ± 0.017 χ^2/NDF : 41.1/46

In: -0.050 ± 0.012 χ^2/NDF : 62.2/44

Out: -0.076 ± 0.012 χ^2/NDF : 46.6/48

All: -0.063 ± 0.009 χ^2/NDF : 111.1/93

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 24.7/21

Left Out: 0.035 $\pm$ 0.018 χ^2 /NDF:32.2/23

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 29.3/24

Left In: -0.009 $\pm$ 0.018 χ^2 /NDF:36.8/22

Left: 0.013 $\pm$ 0.013 χ^2 /NDF: 72.0/46

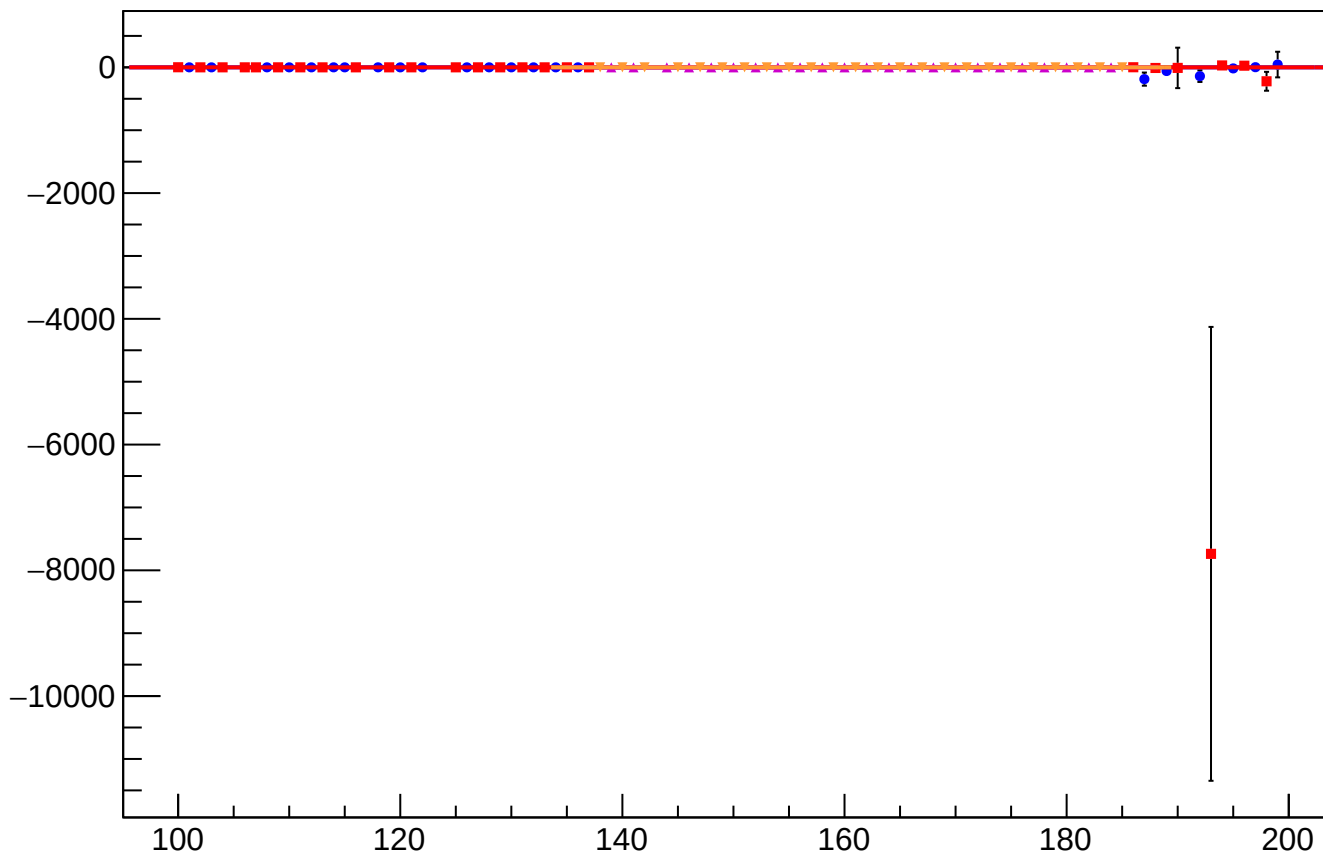
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 54.1/46

In: -0.005 $\pm$ 0.017 χ^2 /NDF:61.9/44

Out: 0.035 $\pm$ 0.017 χ^2 /NDF:61.5/48

All: 0.015 $\pm$ 0.012 χ^2 /NDF: 126.2/93

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: 15.3/24

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

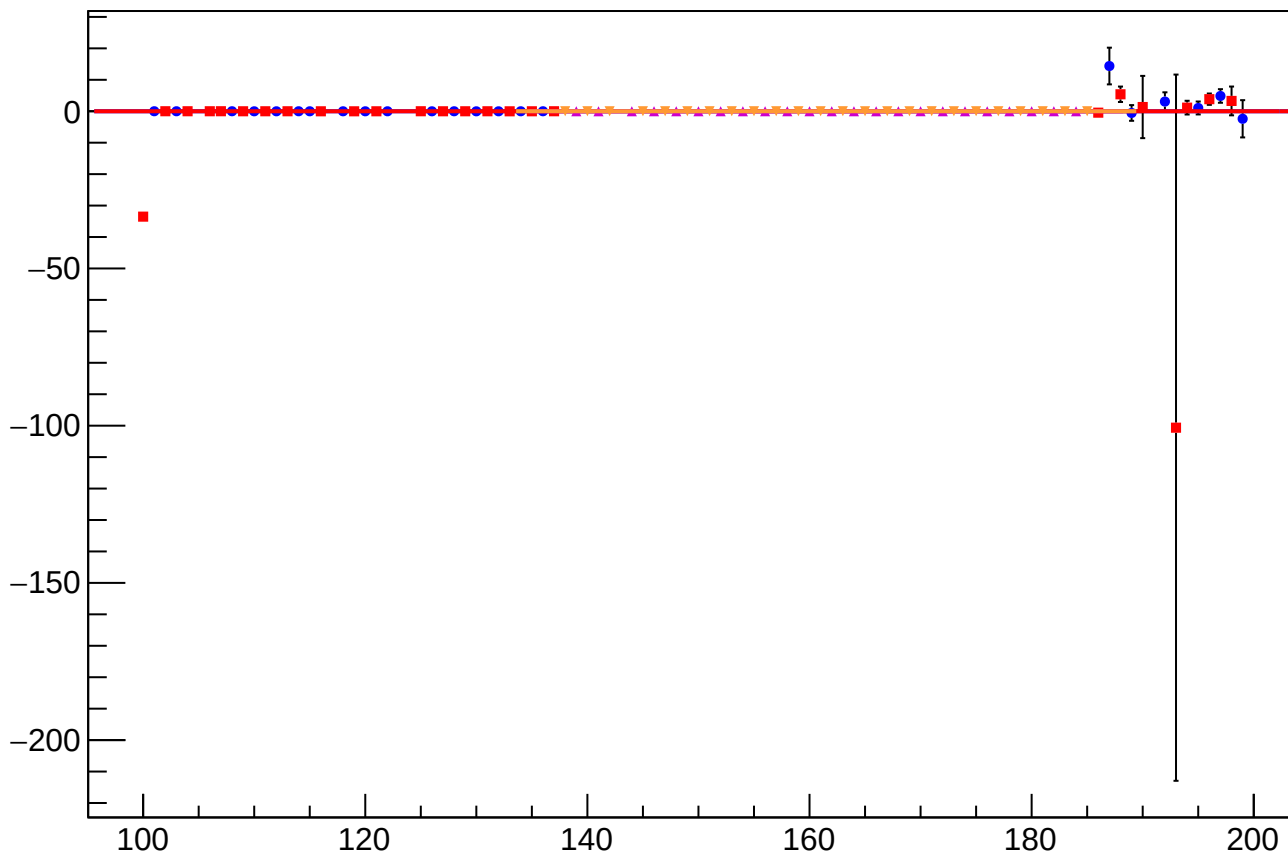
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 39.9/46

In: 0.053 $\pm$ 0.014 χ^2 /NDF: 67.2/44

Out: 0.091 $\pm$ 0.014 χ^2 /NDF: 43.4/48

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 114.1/93

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 : 26520.0/24

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

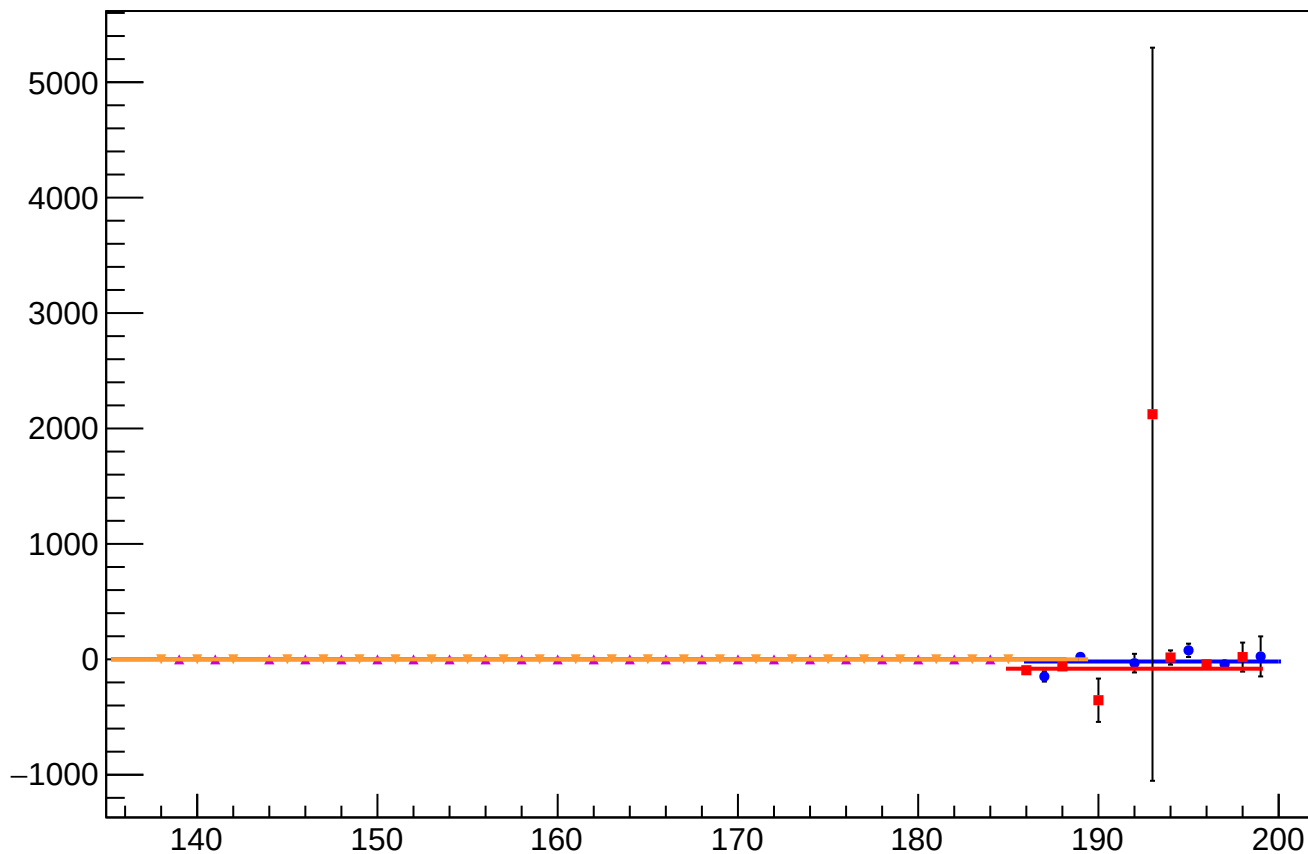
Right: -0.006 ± 0.001 χ^2/NDF : 26554.3/46

In: -0.001 ± 0.001 χ^2/NDF : 68.2/44

Out: -0.001 ± 0.001 χ^2/NDF : 26558.7/48

All: -0.001 ± 0.000 χ^2/NDF : 26627.0/93

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: -81.137 ± 9.982 χ^2/NDF : 8.6/6

Left In: -0.009 ± 0.018 χ^2/NDF : 35.1/22

Left: -0.031 ± 0.013 χ^2/NDF : 75.3/46

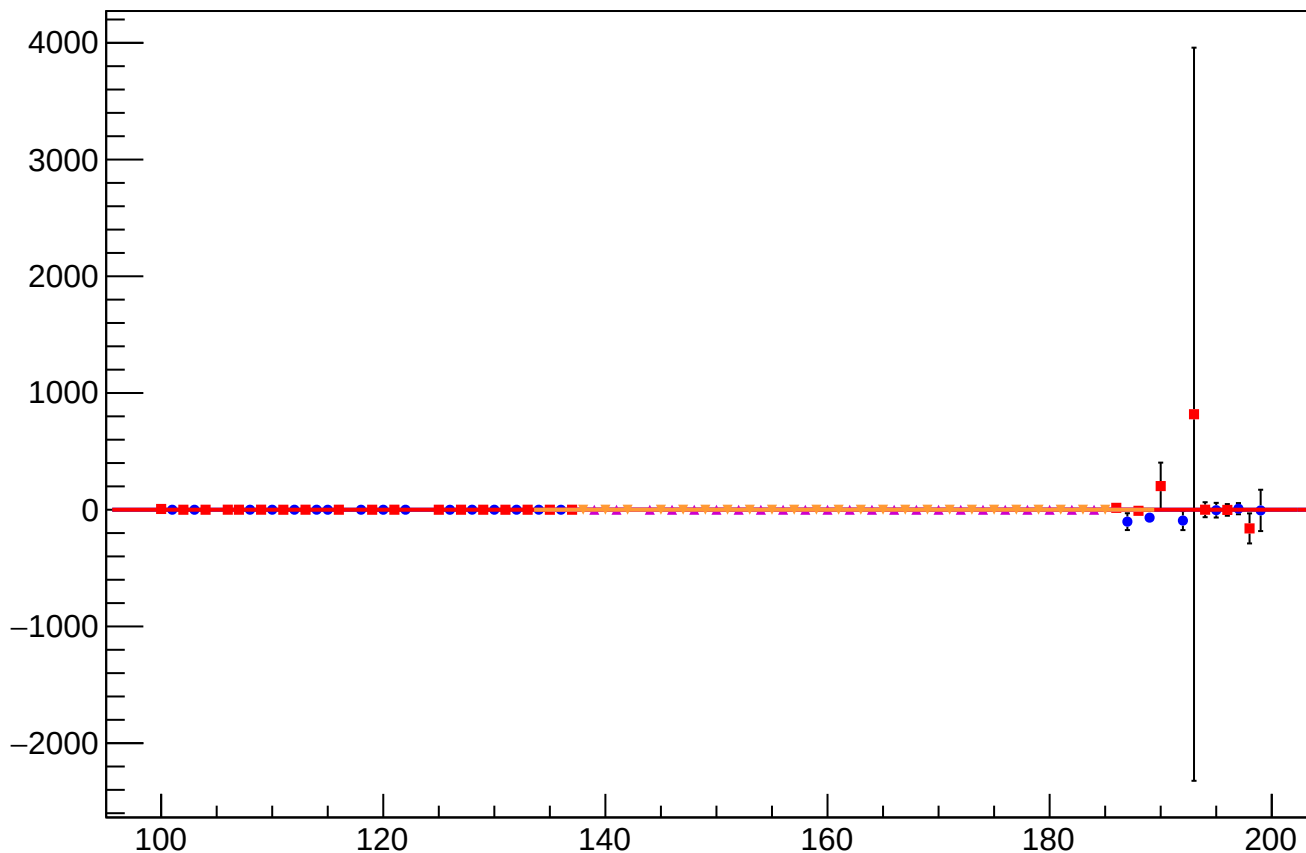
Right: -67.443 ± 8.817 χ^2/NDF : 31.1/12

In: -0.009 ± 0.018 χ^2/NDF : 50.0/28

Out: -0.052 ± 0.018 χ^2/NDF : 112.0/30

All: -0.031 ± 0.013 χ^2/NDF : 164.8/59

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.023 χ^2 /NDF: 33.0/21

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 32.6/24

Left In: 0.005 $\pm$ 0.014 χ^2 /NDF:49.6/22

Left: -0.003 $\pm$ 0.010 χ^2 /NDF: 79.7/46

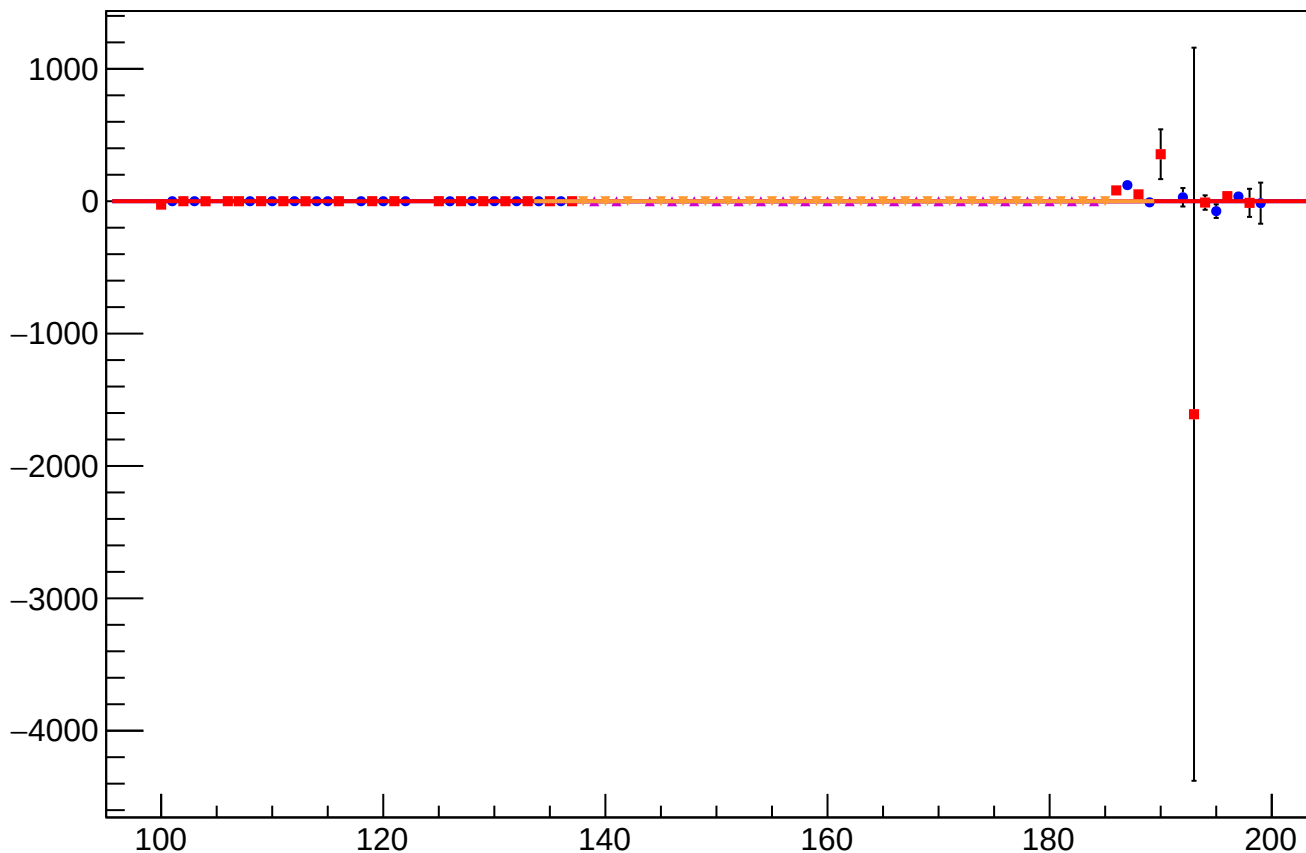
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 66.3/46

In: 0.006 $\pm$ 0.012 χ^2 /NDF:82.6/44

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:64.9/48

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 147.6/93

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: 107.0/24

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

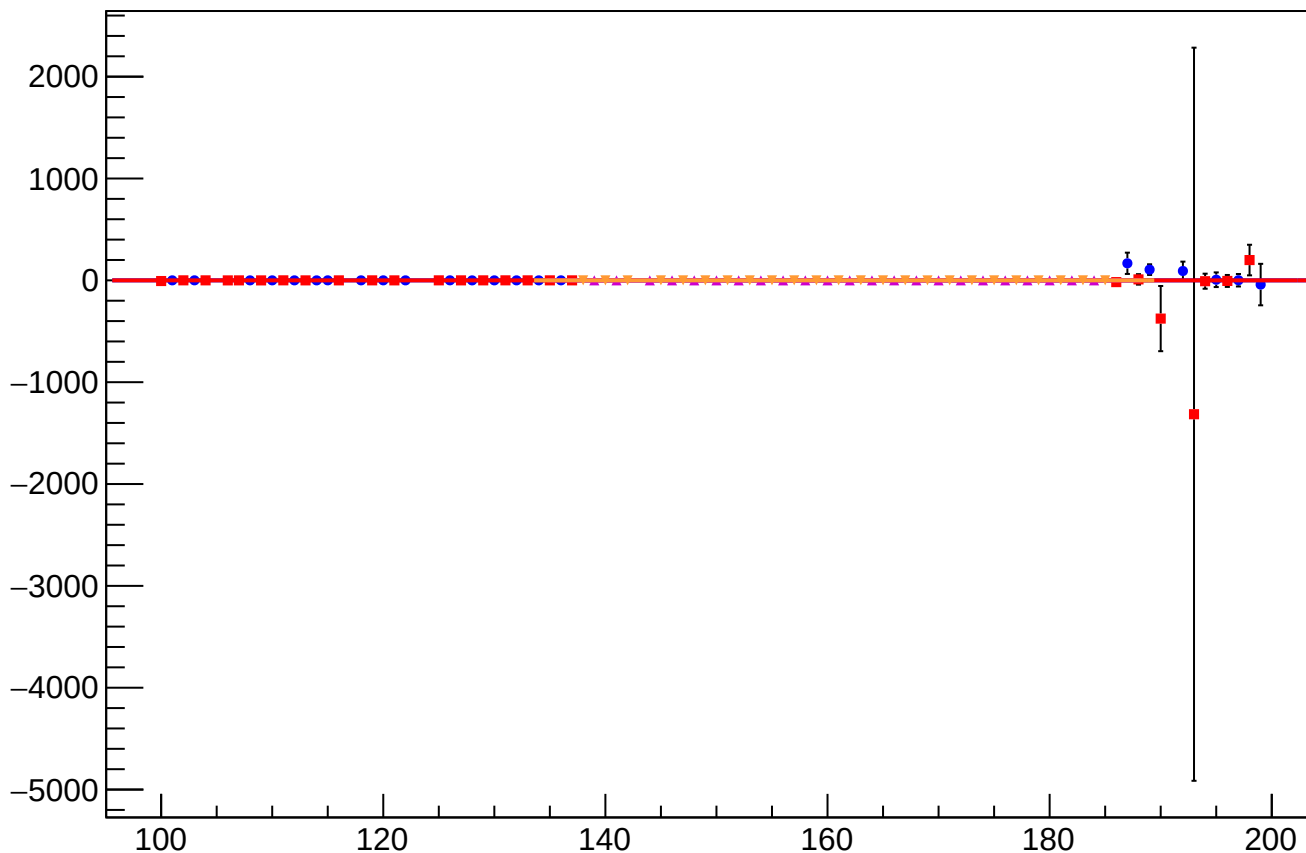
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 152.0/46

In: 0.040 $\pm$ 0.017 χ^2 /NDF:89.0/44

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:151.9/48

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 242.3/93

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 : 30.2/24

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

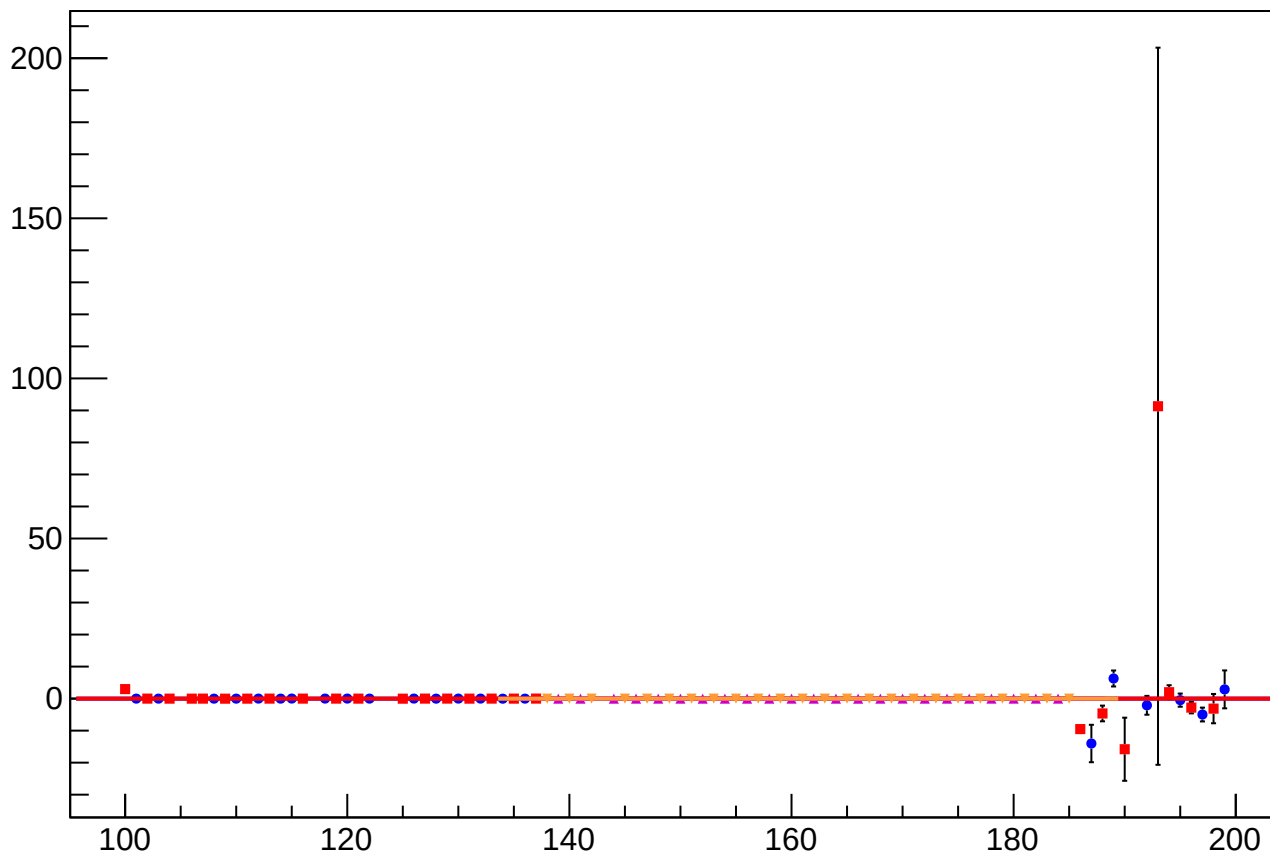
Right: -0.027 ± 0.020 χ^2/NDF : 63.4/46

In: 0.002 ± 0.014 χ^2/NDF : 82.7/44

Out: 0.005 ± 0.014 χ^2/NDF : 67.8/48

All: 0.004 ± 0.010 χ^2/NDF : 150.5/93

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 : 213.4/24

Left In: -0.009+/-0.001 χ^2/NDF : 37.2/22

Left: -0.008+/-0.001 χ^2/NDF : 69.4/46

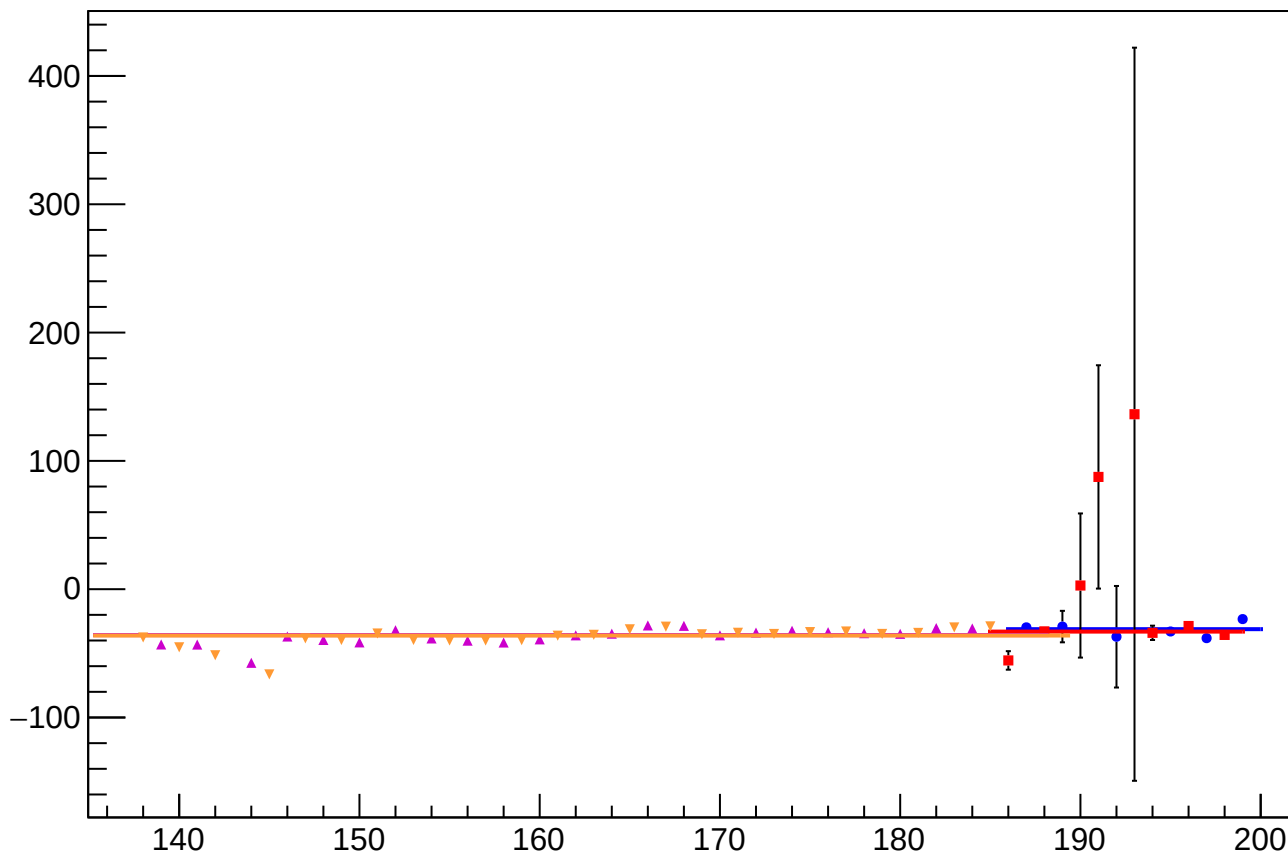
Right: -0.006+/-0.001 χ^2/NDF : 259.0/46

In: -0.008+/-0.001 χ^2/NDF : 85.4/44

Out: -0.008+/-0.001 χ^2/NDF : 247.4/48

All: -0.008+/-0.000 χ^2/NDF : 333.0/93

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.156 ± 1.228 χ^2/NDF : 14.0/5

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -33.053 ± 1.009 χ^2/NDF : 15.3/7

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

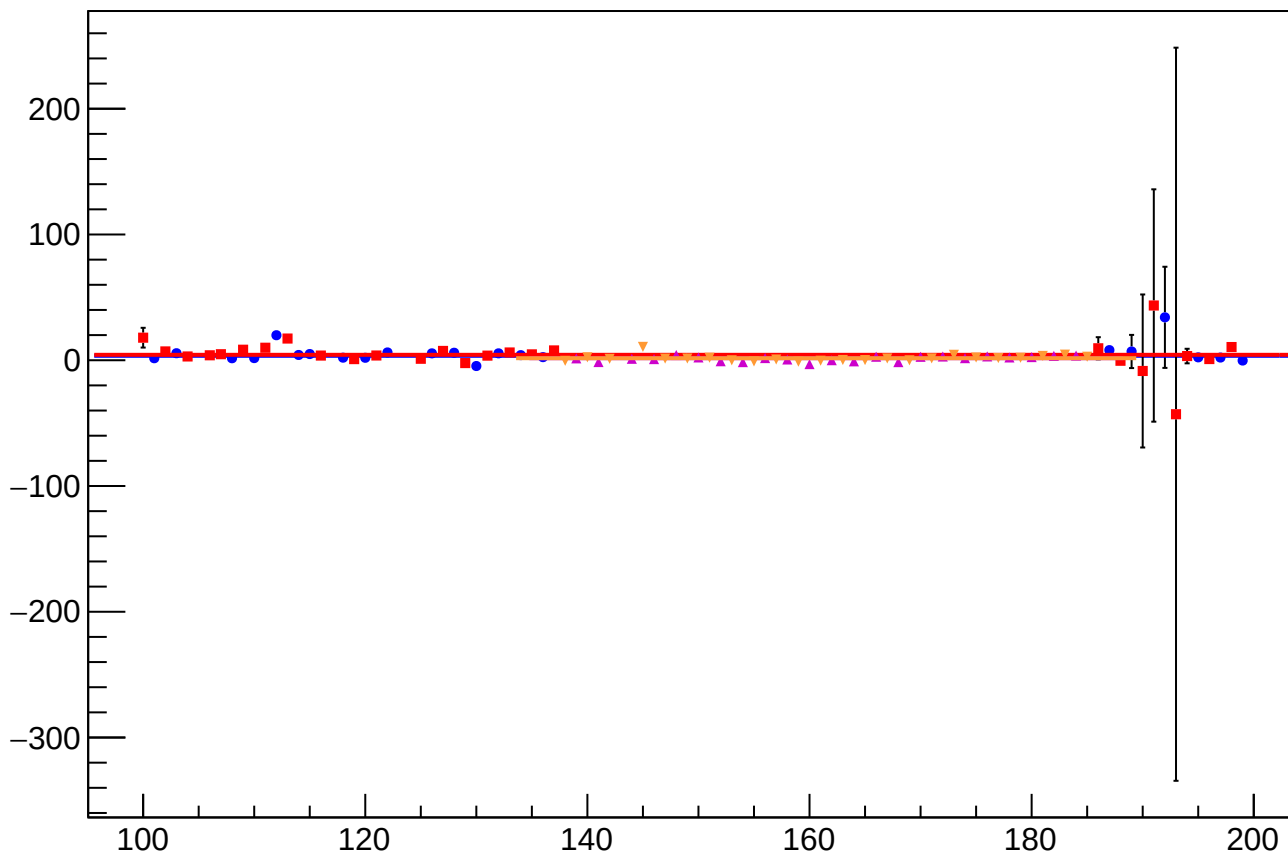
Right: -32.289 ± 0.779 χ^2/NDF : 30.7/13

In: -35.670 ± 0.189 χ^2/NDF : 881.9/28

Out: -36.013 ± 0.189 χ^2/NDF : 1139.2/31

All: -35.842 ± 0.134 χ^2/NDF : 2022.7/60

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: 4.320 $\pm$ 0.222 χ^2 /NDF: 364.7/25

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

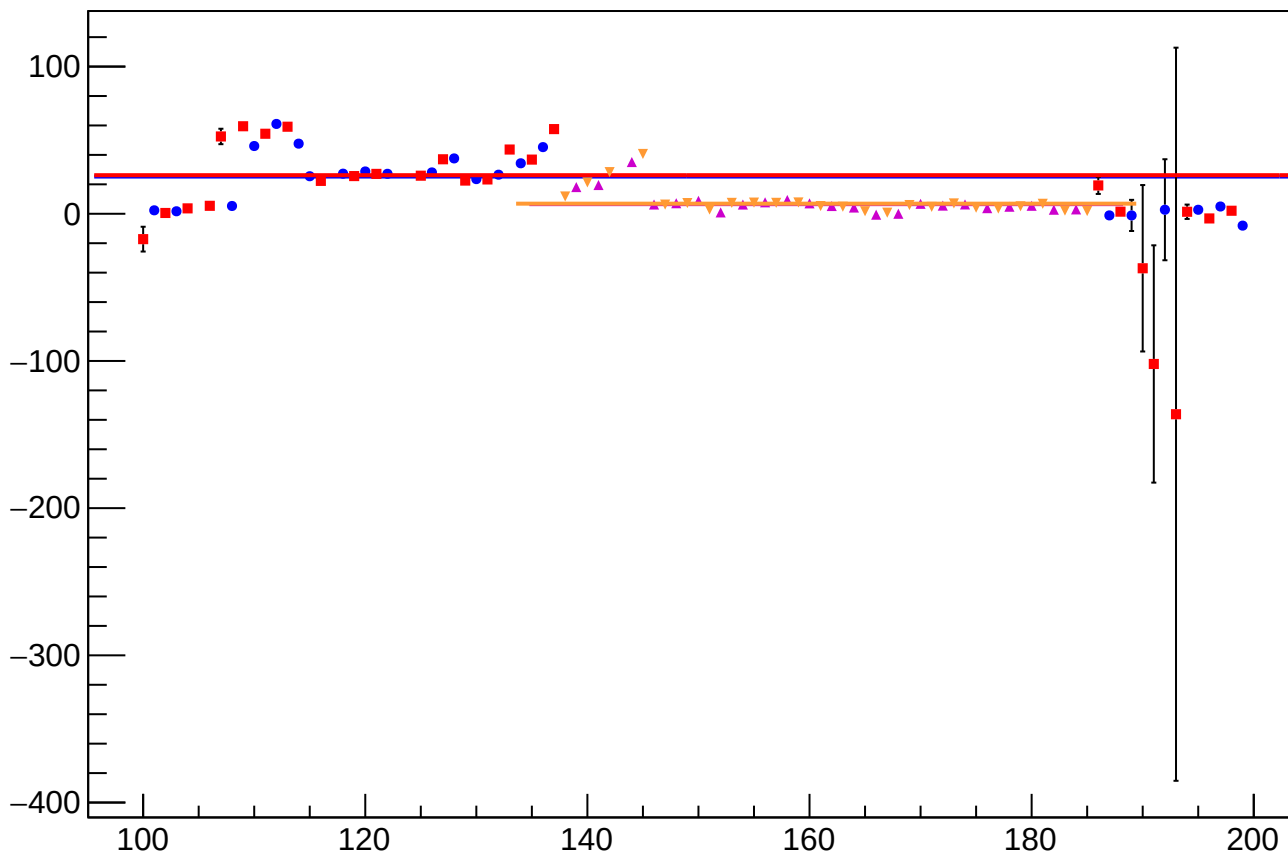
Right: 3.926 $\pm$ 0.156 χ^2 /NDF: 815.3/47

In: 2.249 $\pm$ 0.123 χ^2 /NDF:659.5/44

Out: 2.457 $\pm$ 0.123 χ^2 /NDF:632.4/49

All: 2.353 $\pm$ 0.087 χ^2 /NDF: 1293.4/94

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.287 $\pm$ 0.389 χ^2 /NDF: 2206.2/21

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 26.214 $\pm$ 0.377 χ^2 /NDF: 2830.7/25

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.700 $\pm$ 0.135 χ^2 /NDF: 2322.3/46

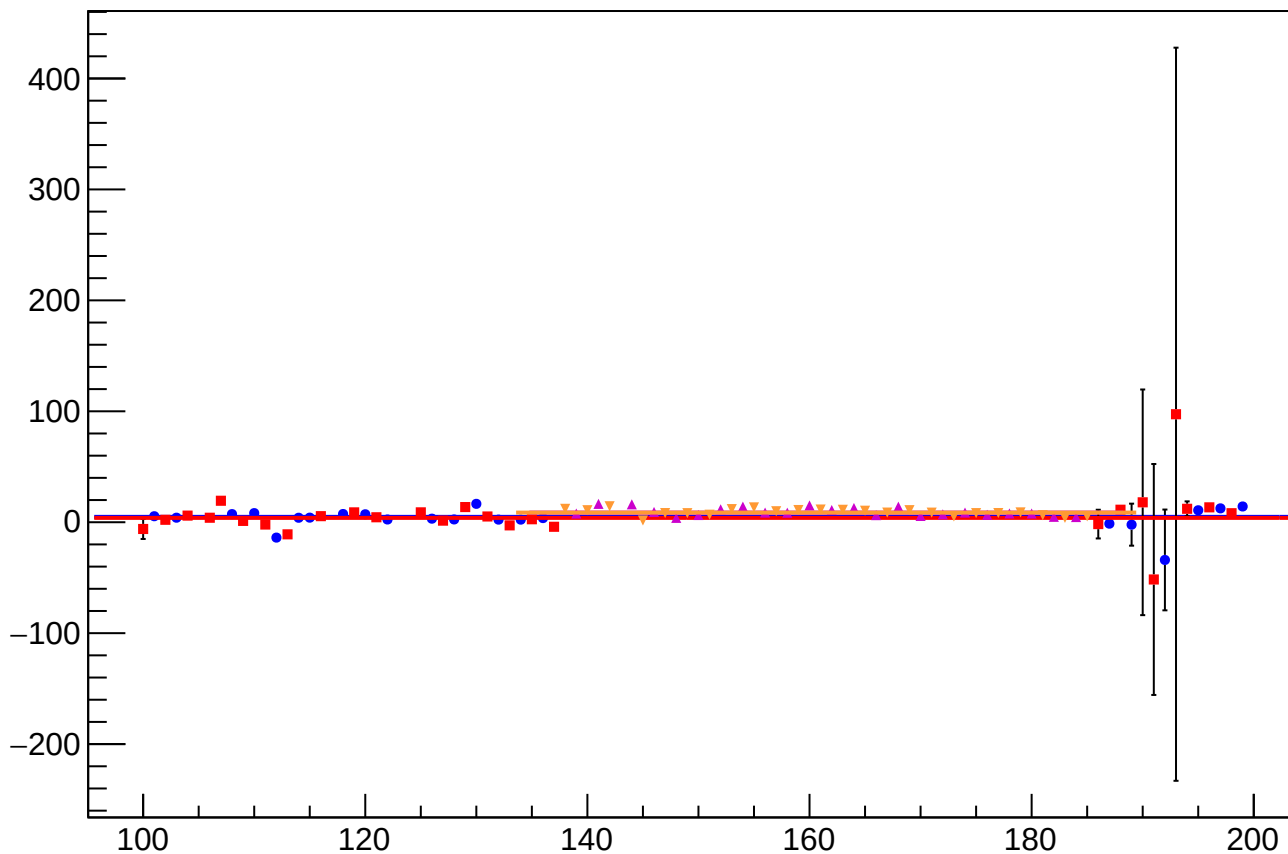
Right: 25.765 $\pm$ 0.271 χ^2 /NDF: 5039.8/47

In: 10.157 $\pm$ 0.171 χ^2 /NDF:5104.3/44

Out: 10.834 $\pm$ 0.171 χ^2 /NDF:6222.4/49

All: 10.496 $\pm$ 0.121 χ^2 /NDF: 11334.5/94

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: 3.925 $\pm$ 0.256 χ^2 /NDF: 581.5/25

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

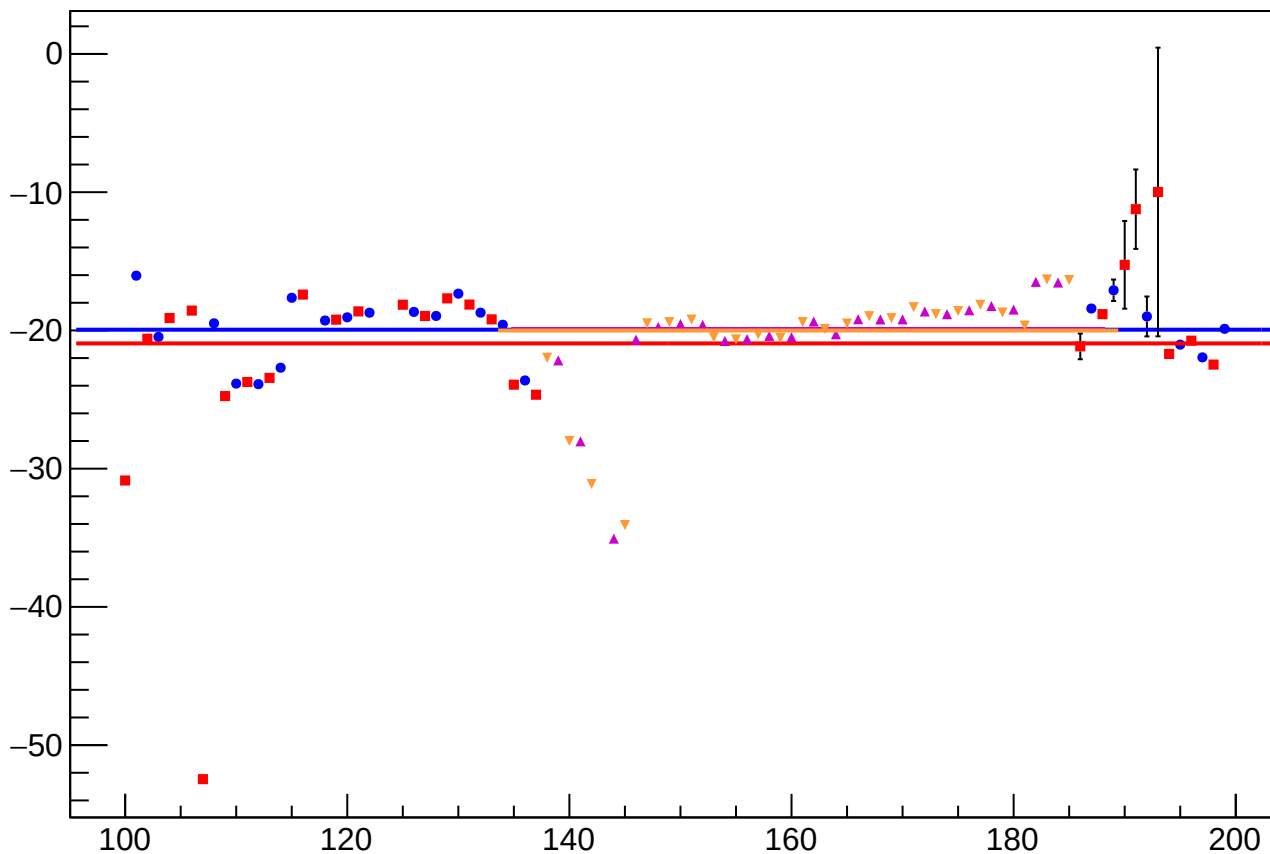
Right: 4.389 $\pm$ 0.180 χ^2 /NDF: 1150.8/47

In: 7.470 $\pm$ 0.141 χ^2 /NDF:1158.1/44

Out: 7.251 $\pm$ 0.141 χ^2 /NDF:1063.6/49

All: 7.361 $\pm$ 0.100 χ^2 /NDF: 2222.9/94

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.947 $\pm$ 0.015 χ^2 /NDF: 26443.6/21

Left Out: -20.006 $\pm$ 0.008 χ^2 /NDF: 171763.9/23

Right Out: -20.939 $\pm$ 0.015 χ^2 /NDF: 94410.9/25

Left In: -19.898 $\pm$ 0.008 χ^2 /NDF: 144191.9/22

Left: -19.951 $\pm$ 0.006 χ^2 /NDF: 316049.4/46

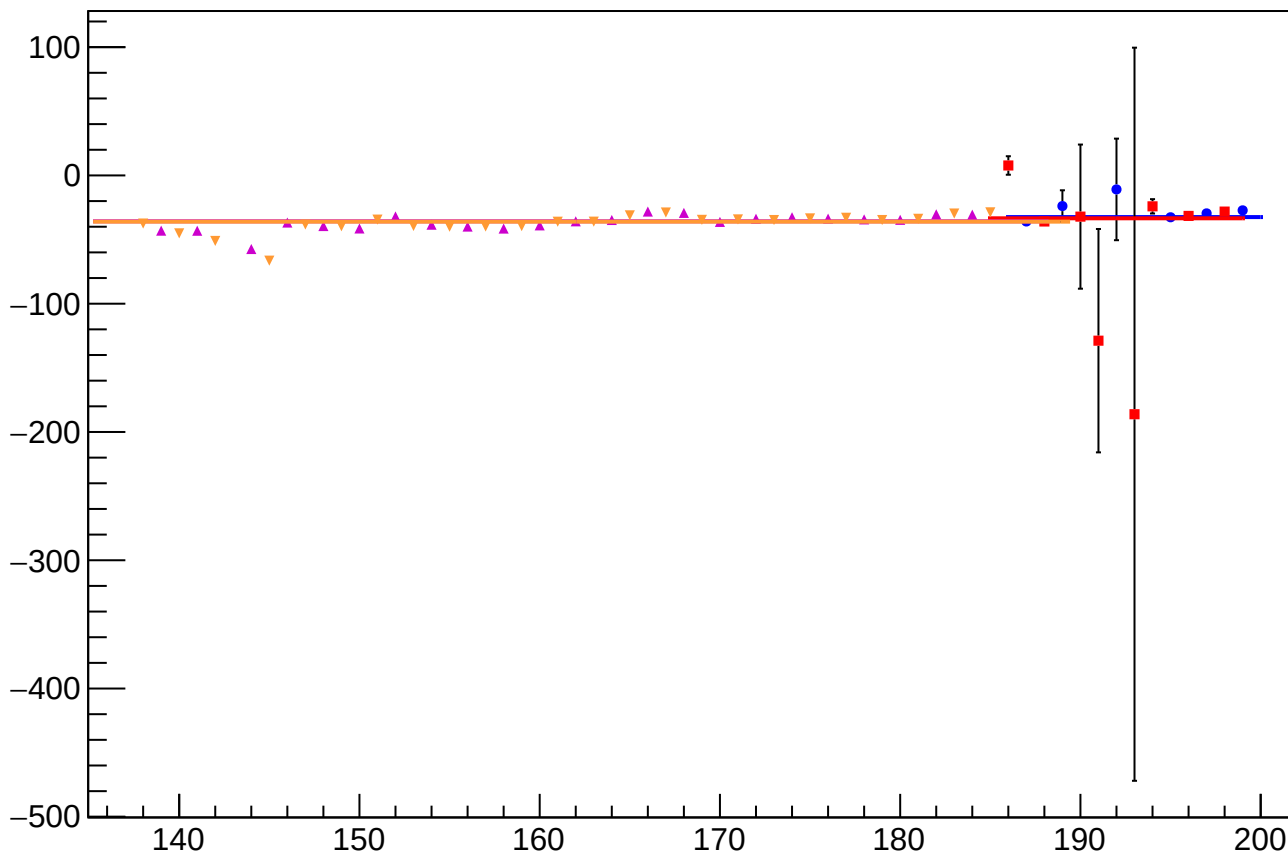
Right: -20.439 $\pm$ 0.011 χ^2 /NDF: 122964.7/47

In: -19.908 $\pm$ 0.007 χ^2 /NDF: 170643.8/44

Out: -20.201 $\pm$ 0.007 χ^2 /NDF: 269106.6/49

All: -20.054 $\pm$ 0.005 χ^2 /NDF: 440627.3/94

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: -33.424 ± 1.012 $\chi^2/\text{NDF}: 44.2/7$

Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$

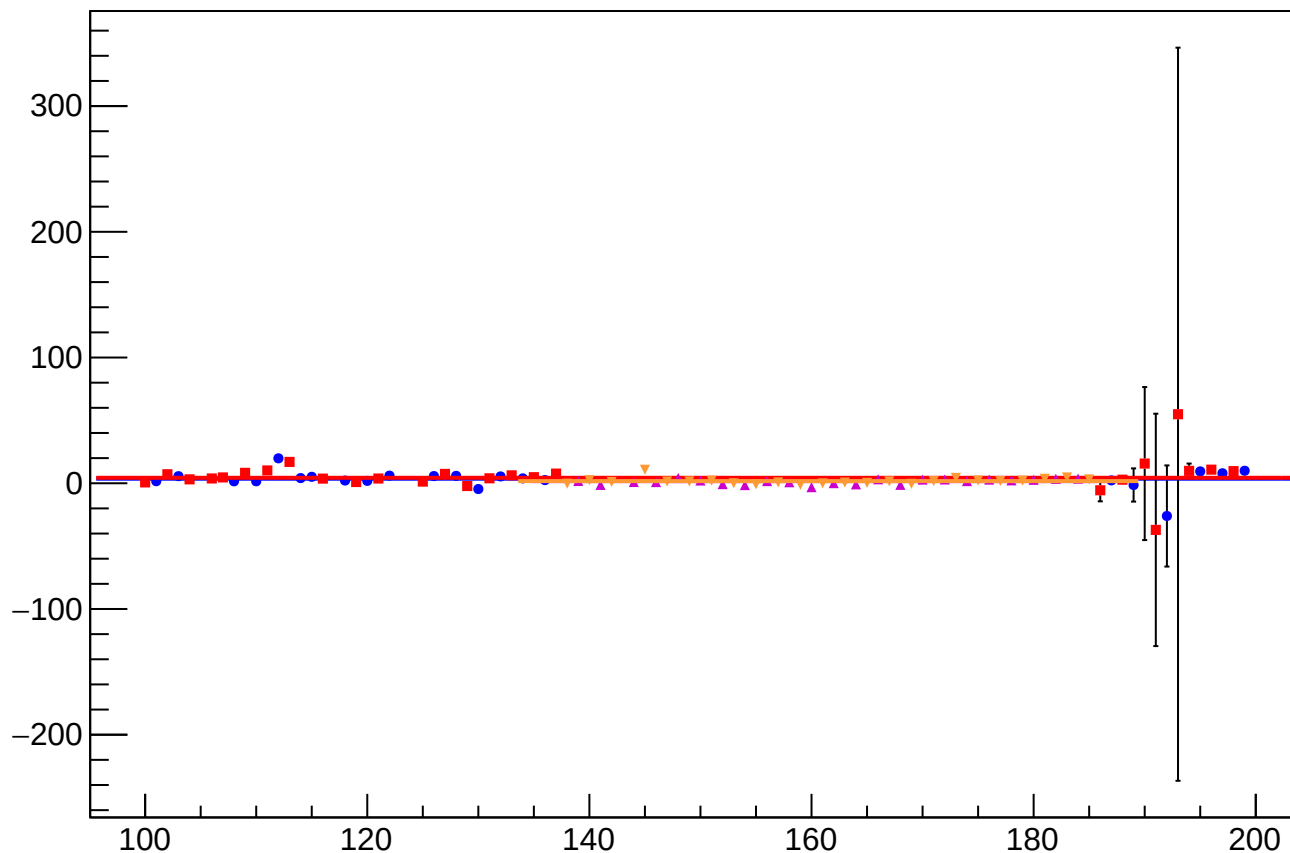
Right: -33.041 ± 0.782 $\chi^2/\text{NDF}: 52.5/13$

In: -35.689 ± 0.189 $\chi^2/\text{NDF}: 857.6/28$

Out: -35.940 ± 0.188 $\chi^2/\text{NDF}: 1171.8/31$

All: -35.815 ± 0.133 $\chi^2/\text{NDF}: 2030.3/60$

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: 4.341 $\pm$ 0.219 χ^2 /NDF: 361.7/25

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

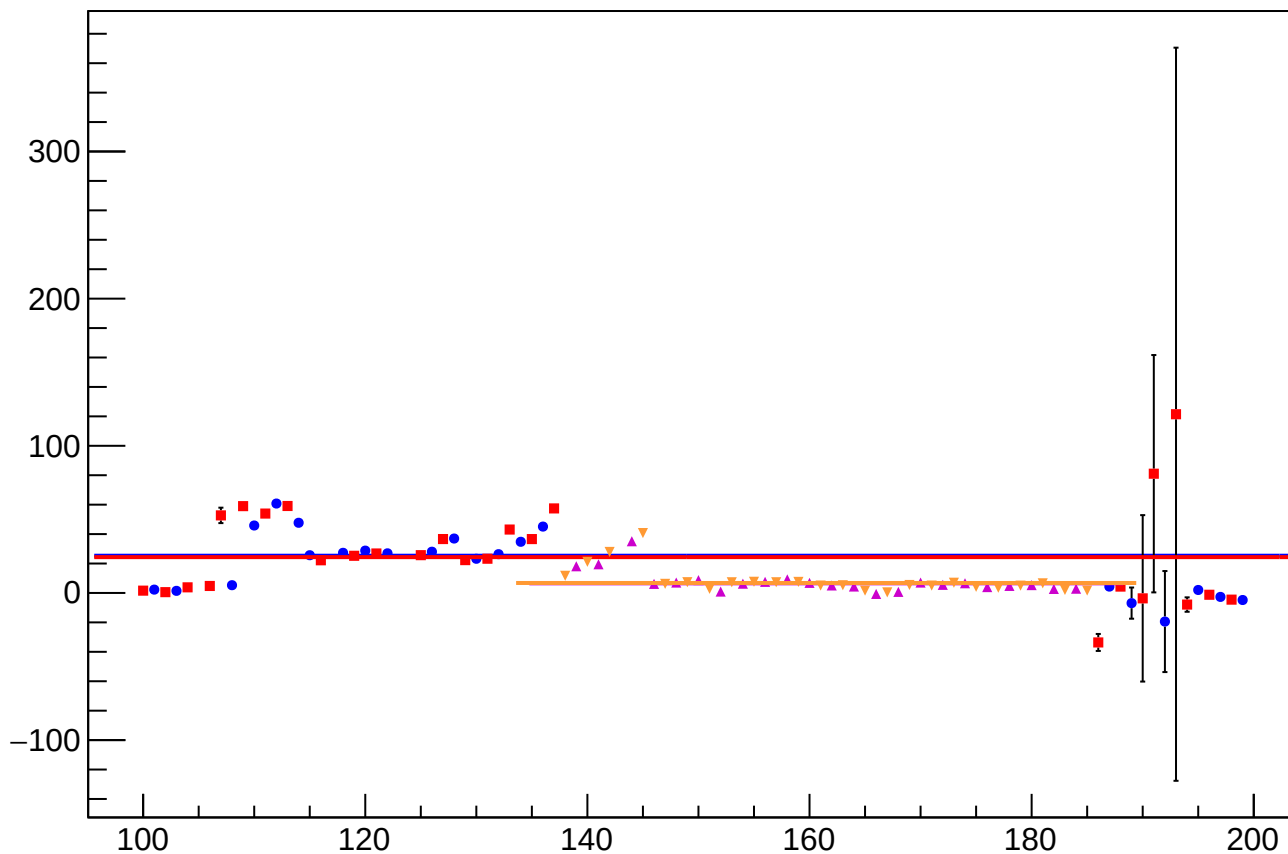
Right: 3.985 $\pm$ 0.154 χ^2 /NDF: 814.3/47

In: 2.319 $\pm$ 0.123 χ^2 /NDF: 663.3/44

Out: 2.544 $\pm$ 0.122 χ^2 /NDF: 628.3/49

All: 2.432 $\pm$ 0.087 χ^2 /NDF: 1293.2/94

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.303 ± 0.389 $\chi^2/\text{NDF}: 2141.3/21$

Left Out: 6.779 ± 0.191 $\chi^2/\text{NDF}: 1297.7/23$

Right Out: 24.338 ± 0.362 $\chi^2/\text{NDF}: 3105.4/25$

Left In: 6.532 ± 0.190 $\chi^2/\text{NDF}: 1018.2/22$

Left: 6.655 ± 0.135 $\chi^2/\text{NDF}: 2316.7/46$

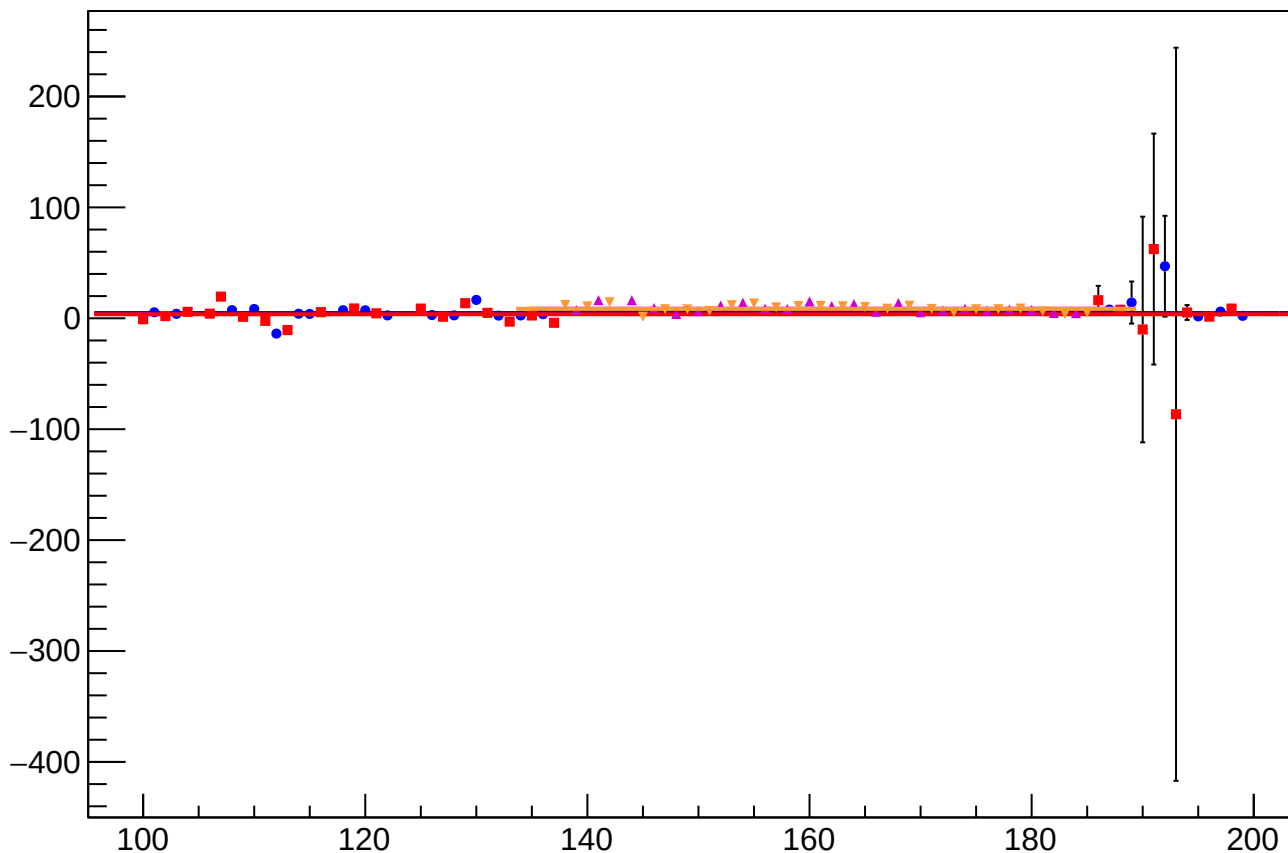
Right: 24.786 ± 0.265 $\chi^2/\text{NDF}: 5250.0/47$

In: 10.154 ± 0.171 $\chi^2/\text{NDF}: 5037.4/44$

Out: 10.606 ± 0.169 $\chi^2/\text{NDF}: 6239.4/49$

All: 10.382 ± 0.120 $\chi^2/\text{NDF}: 11280.3/94$

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: 3.627 $\pm$ 0.252 χ^2 /NDF: 576.0/25

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

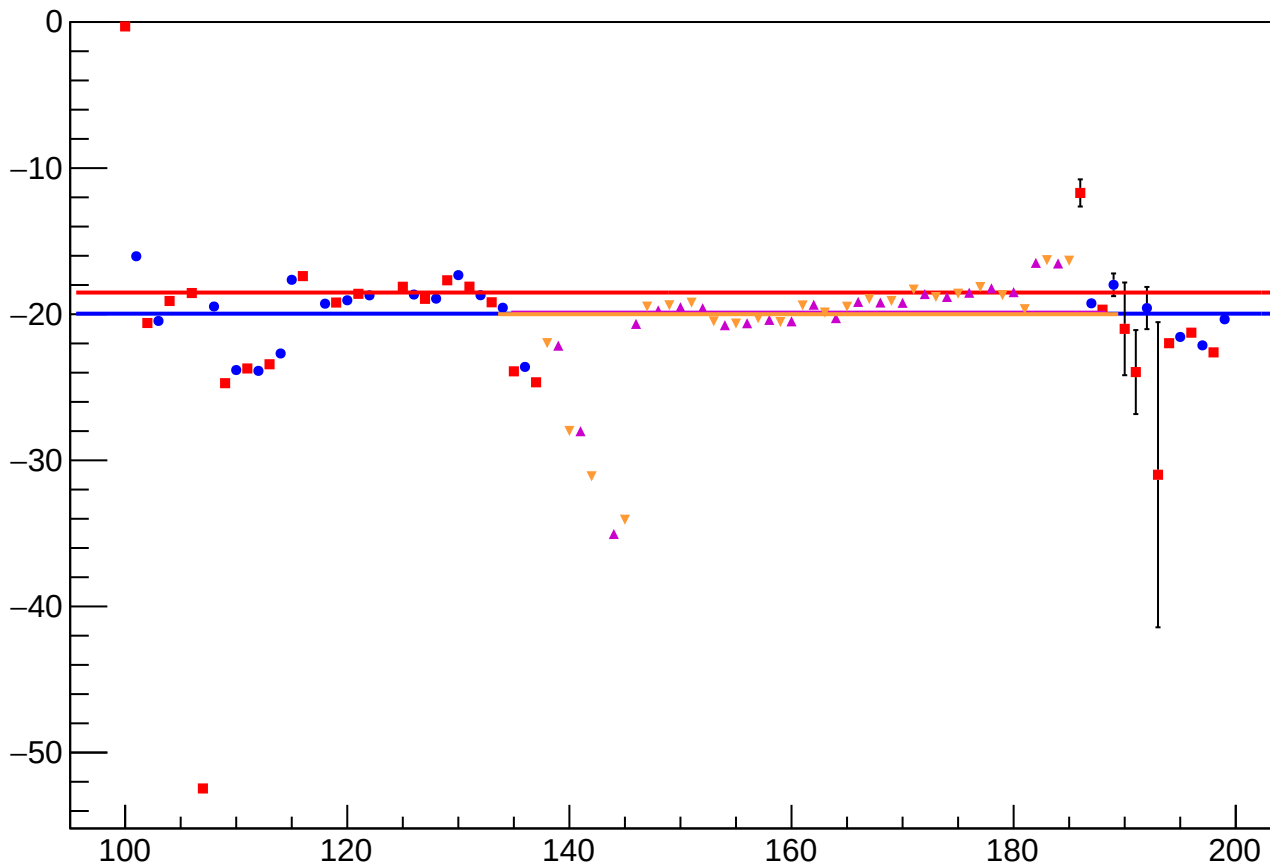
Right: 4.185 $\pm$ 0.178 χ^2 /NDF: 1131.7/47

In: 7.383 $\pm$ 0.141 χ^2 /NDF:1147.3/44

Out: 7.050 $\pm$ 0.140 χ^2 /NDF:1088.4/49

All: 7.216 $\pm$ 0.099 χ^2 /NDF: 2238.5/94

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.961 ± 0.015 χ^2/NDF : 26576.2/21

Left Out: -19.998 ± 0.008 χ^2/NDF : 171944.6/23

Right Out: -18.515 ± 0.014 χ^2/NDF : 303277.4/25

Left In: -19.890 ± 0.008 χ^2/NDF : 144055.2/22

Left: -19.944 ± 0.006 χ^2/NDF : 316093.4/46

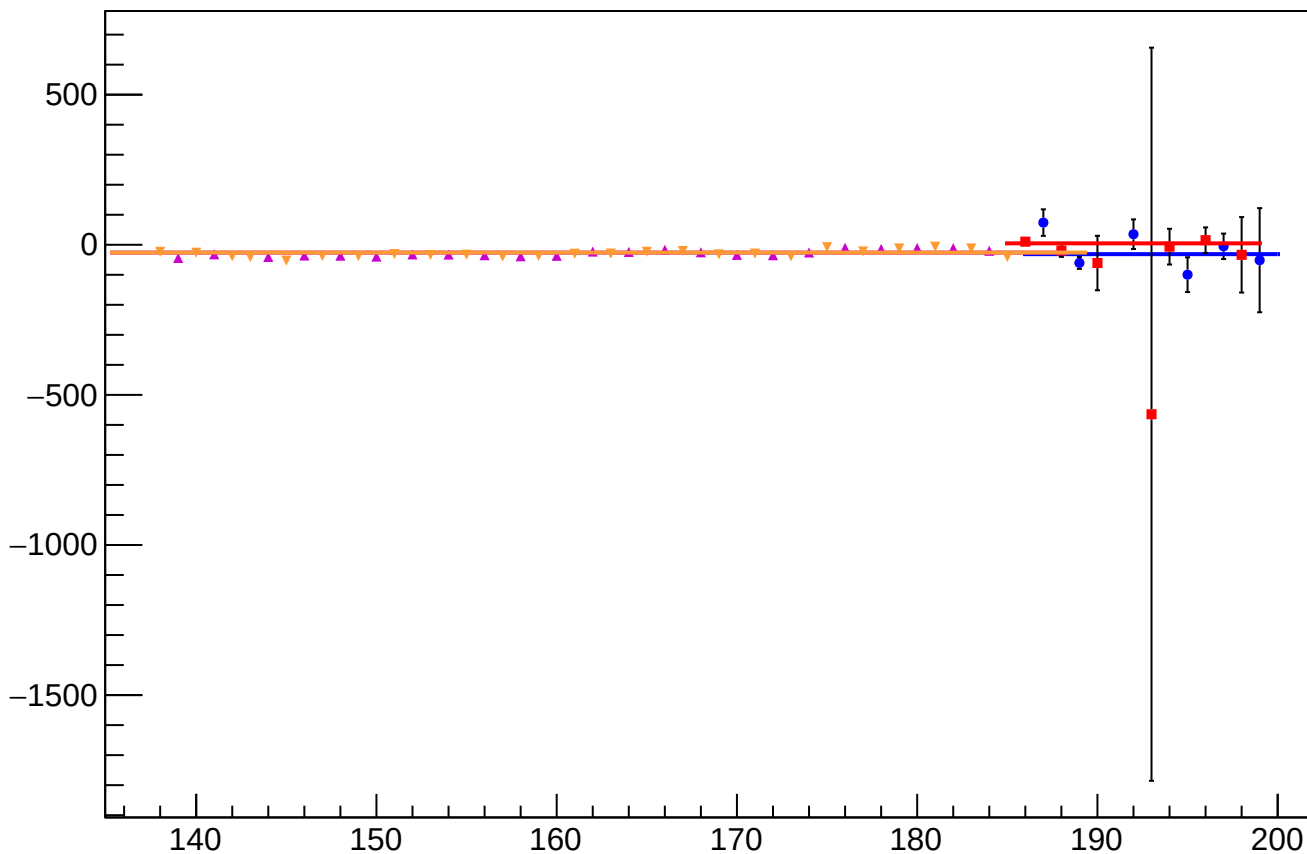
Right: -19.201 ± 0.010 χ^2/NDF : 334614.1/47

In: -19.905 ± 0.007 χ^2/NDF : 170648.6/44

Out: -19.657 ± 0.007 χ^2/NDF : 483351.2/49

All: -19.780 ± 0.005 χ^2/NDF : 654640.5/94

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: 4.735 ± 8.297 χ^2/NDF : 2.6/6

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

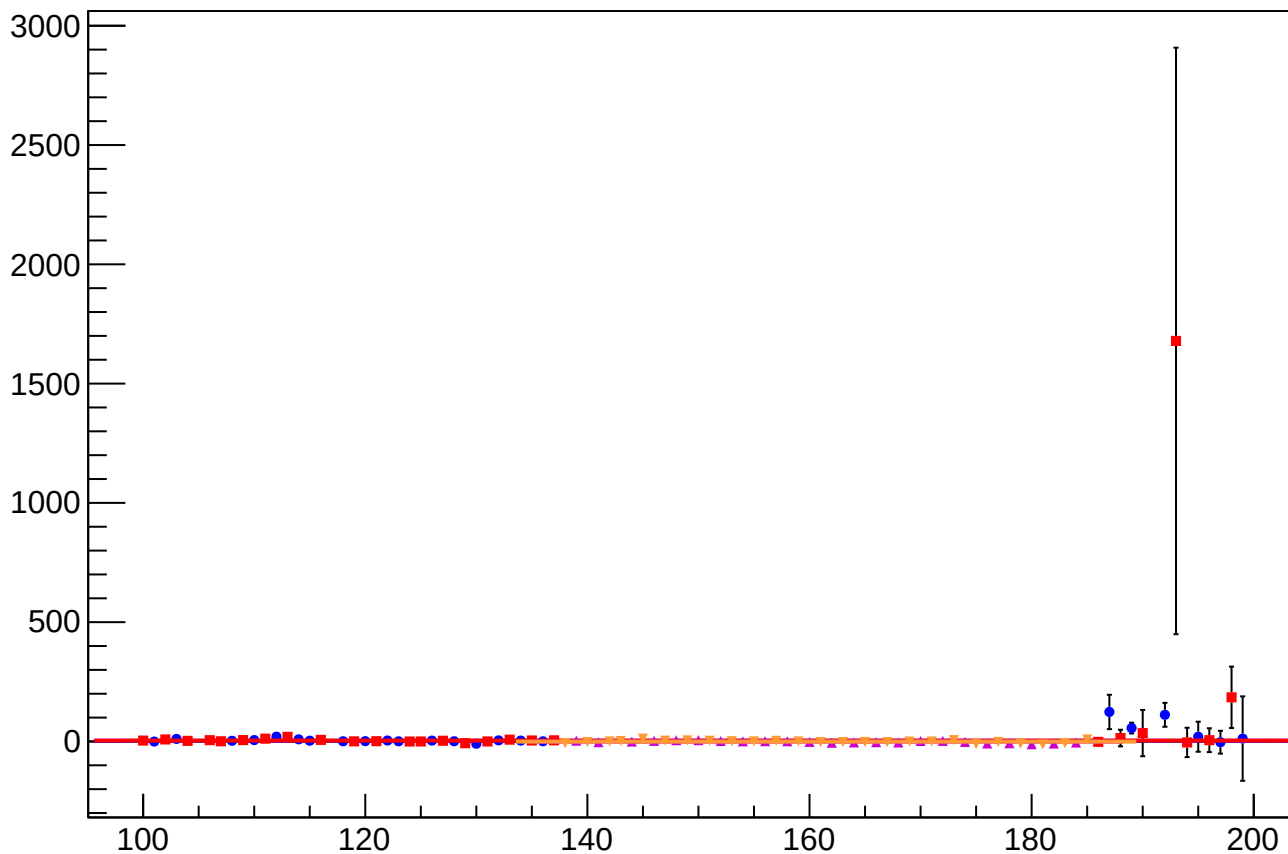
Right: -3.566 ± 7.276 χ^2/NDF : 18.4/12

In: -26.053 ± 0.195 χ^2/NDF : 3291.0/28

Out: -25.868 ± 0.192 χ^2/NDF : 4174.2/31

All: -25.959 ± 0.137 χ^2/NDF : 7465.7/60

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 : 273.4/25

Left In: -0.863 ± 0.150 χ^2/NDF : 1066.5/22

Left: -0.756 ± 0.105 χ^2/NDF : 2388.3/47

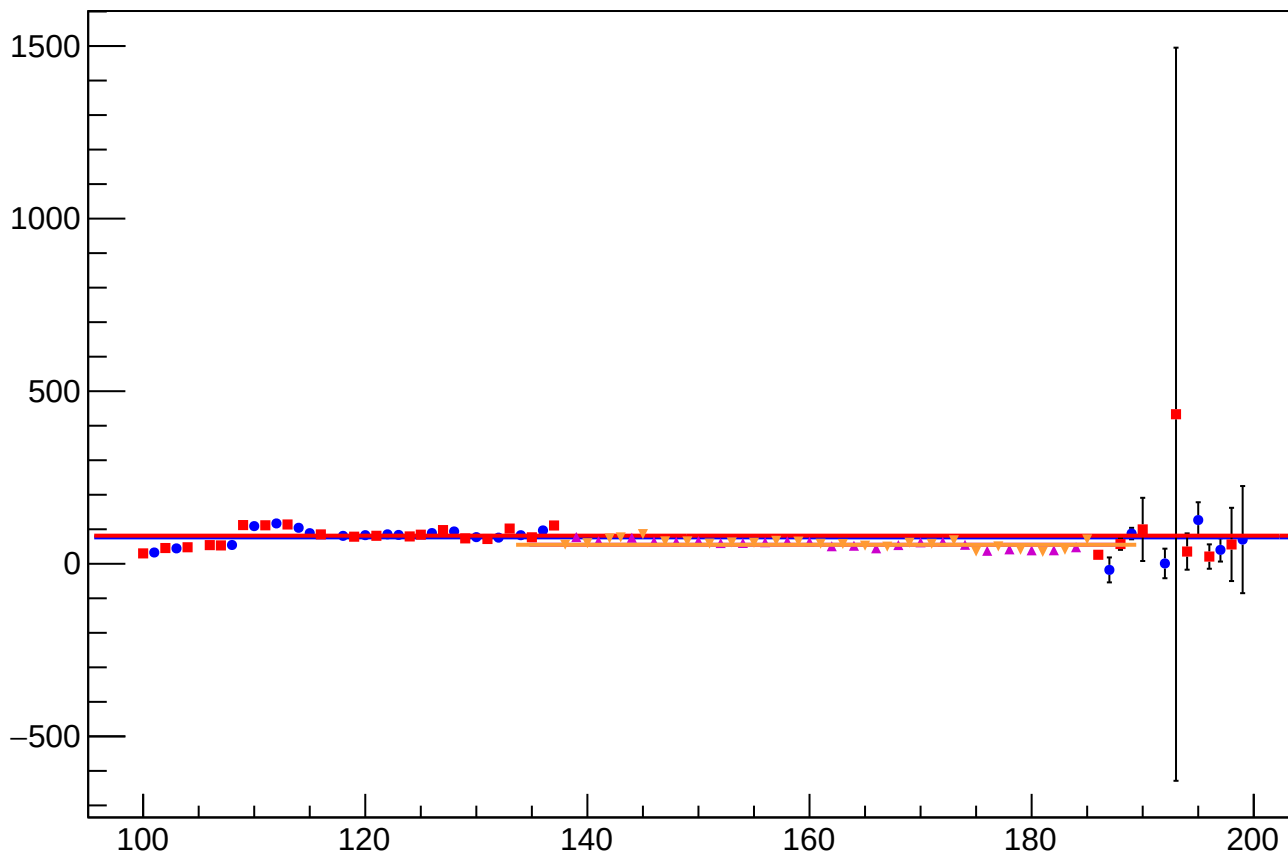
Right: 3.069 ± 0.227 χ^2/NDF : 588.5/48

In: -0.243 ± 0.136 χ^2/NDF : 1465.6/45

Out: 0.075 ± 0.133 χ^2/NDF : 1743.1/50

All: -0.082 ± 0.095 χ^2/NDF : 3211.4/96

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: 81.495 $\pm$ 0.591 χ^2 /NDF: 1630.5/25

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

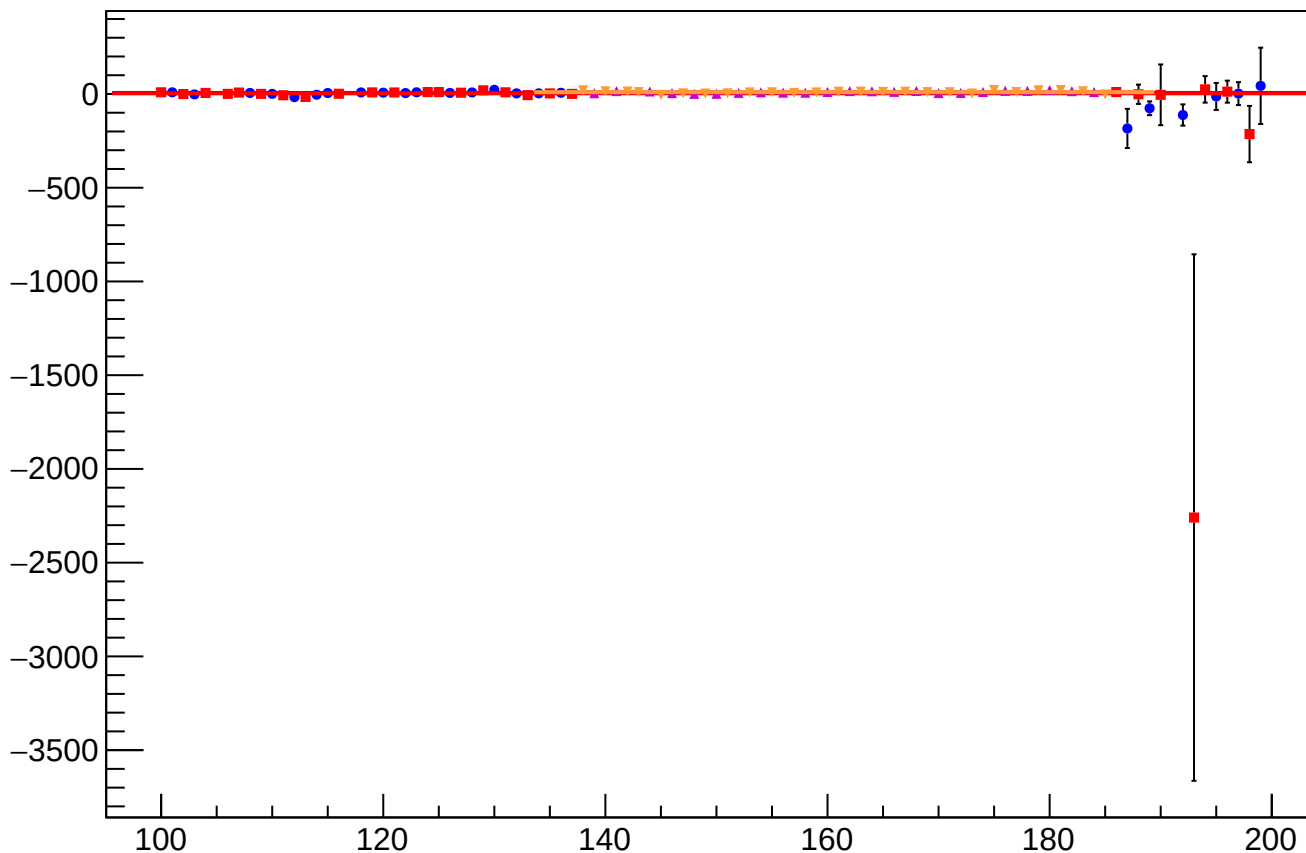
Right: 78.950 $\pm$ 0.412 χ^2 /NDF: 3932.0/48

In: 57.243 $\pm$ 0.183 χ^2 /NDF: 7213.6/45

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8017.6/50

All: 57.427 $\pm$ 0.129 χ^2 /NDF: 15233.3/96

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: 426.6/25

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

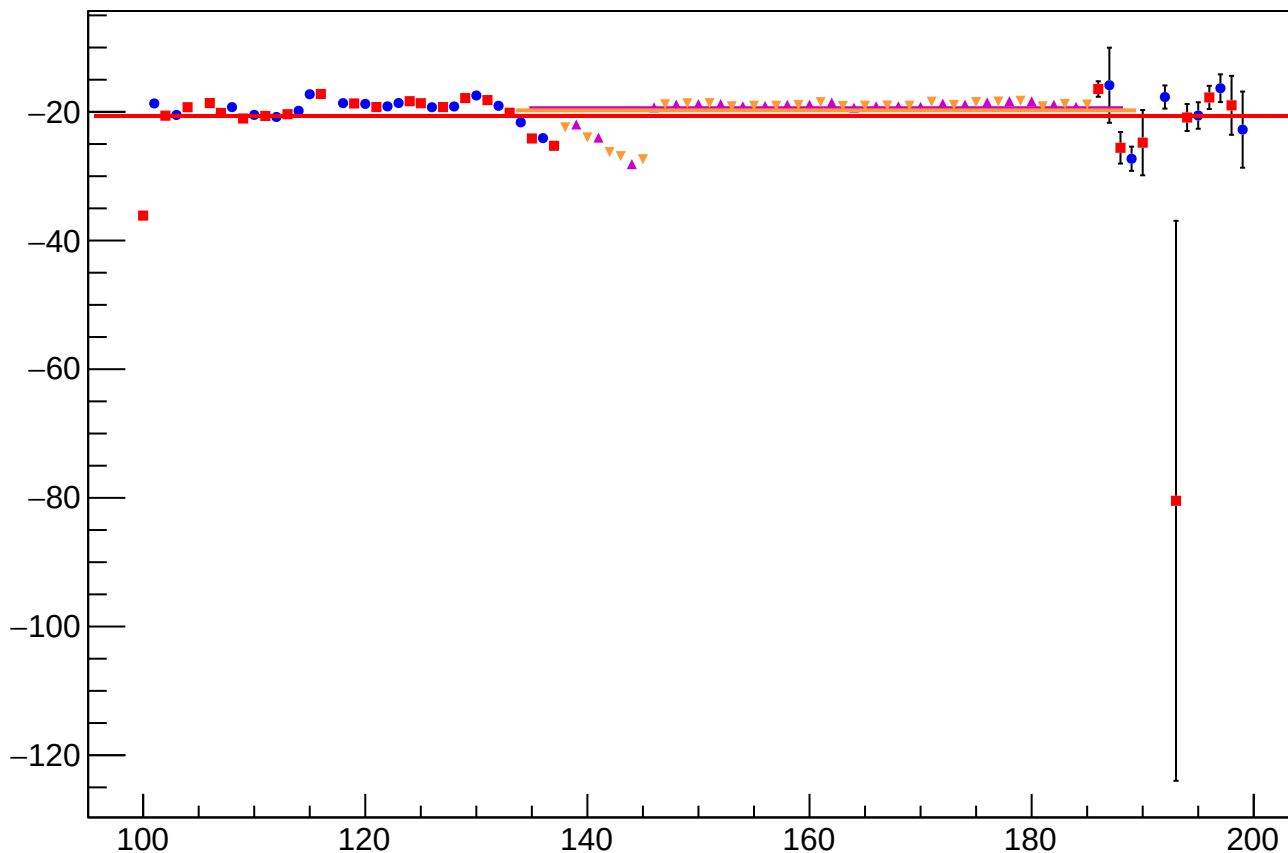
Right: 4.535 $\pm$ 0.260 χ^2 /NDF: 837.2/48

In: 8.993 $\pm$ 0.155 χ^2 /NDF:1677.8/45

Out: 8.713 $\pm$ 0.153 χ^2 /NDF:2100.6/50

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3780.1/96

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: 13807.2/25

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

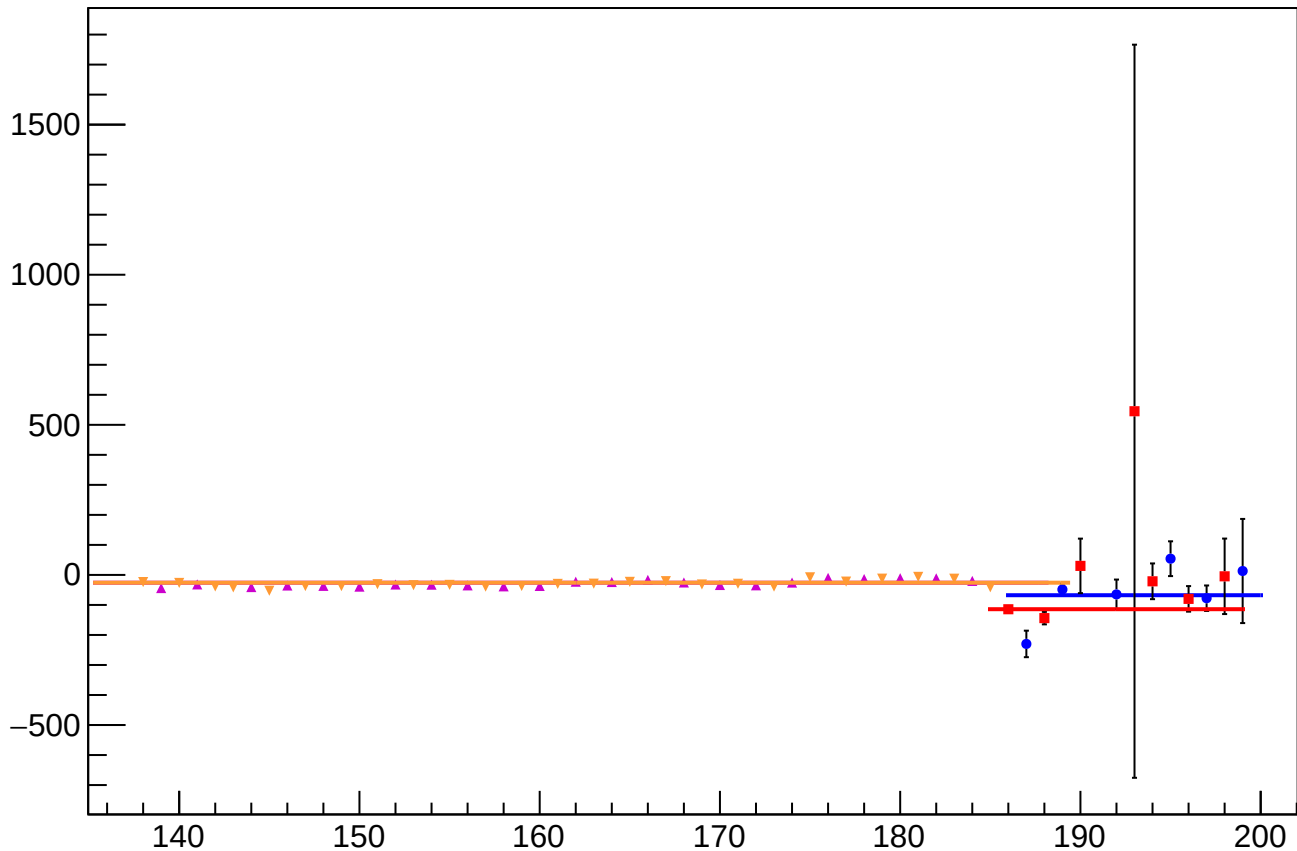
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26251.4/48

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68952.6/45

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107147.7/50

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176829.0/96

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -67.606 ± 15.152 $\chi^2/\text{NDF}: 19.1/5$

Left Out: -25.899 ± 0.192 $\chi^2/\text{NDF}: 4127.5/24$

Right Out: -114.173 ± 8.303 $\chi^2/\text{NDF}: 8.7/6$

Left In: -26.046 ± 0.195 $\chi^2/\text{NDF}: 3246.7/22$

Left: -25.971 ± 0.137 $\chi^2/\text{NDF}: 7374.6/47$

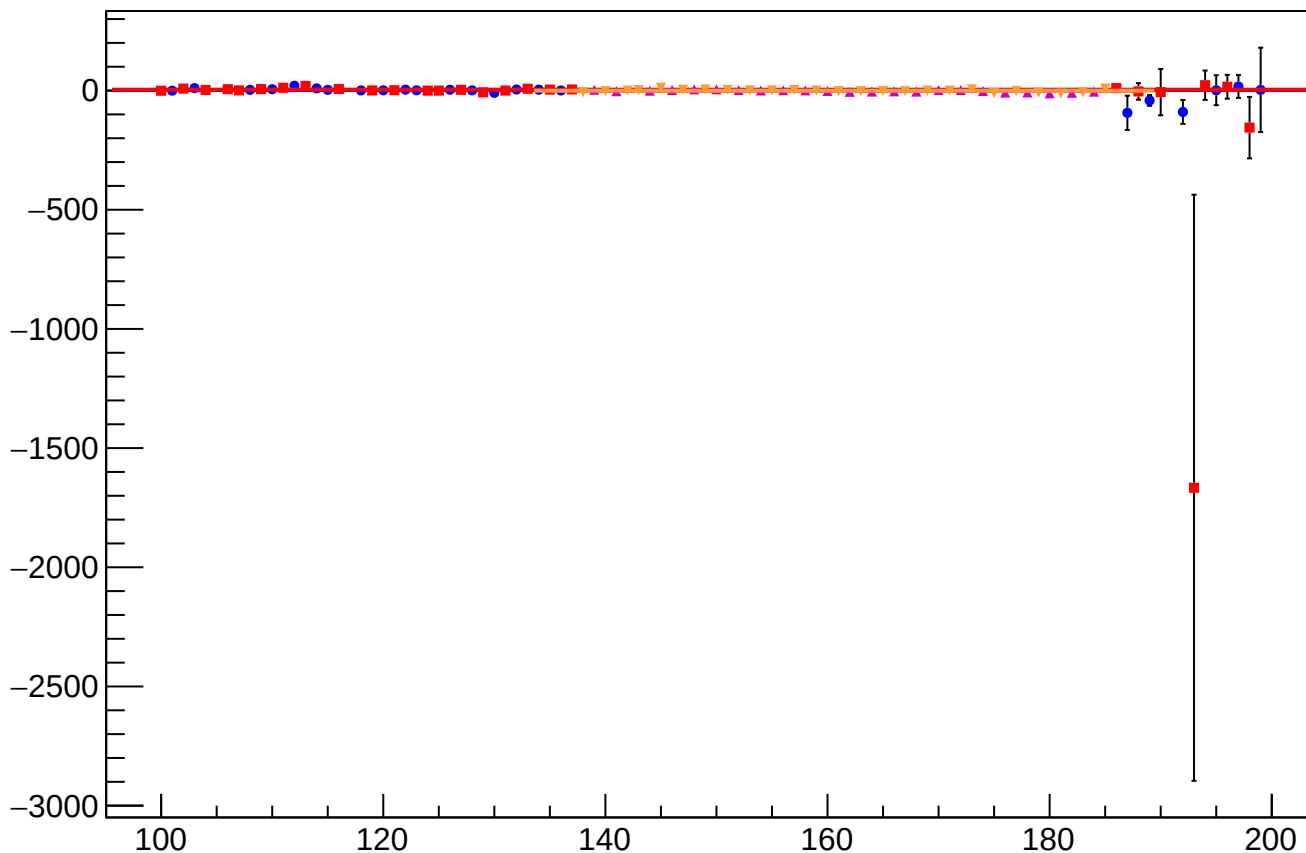
Right: -103.420 ± 7.281 $\chi^2/\text{NDF}: 35.1/12$

In: -26.053 ± 0.195 $\chi^2/\text{NDF}: 3273.4/28$

Out: -25.946 ± 0.192 $\chi^2/\text{NDF}: 4249.2/31$

All: -25.999 ± 0.137 $\chi^2/\text{NDF}: 7522.7/60$

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 : 284.0/25

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

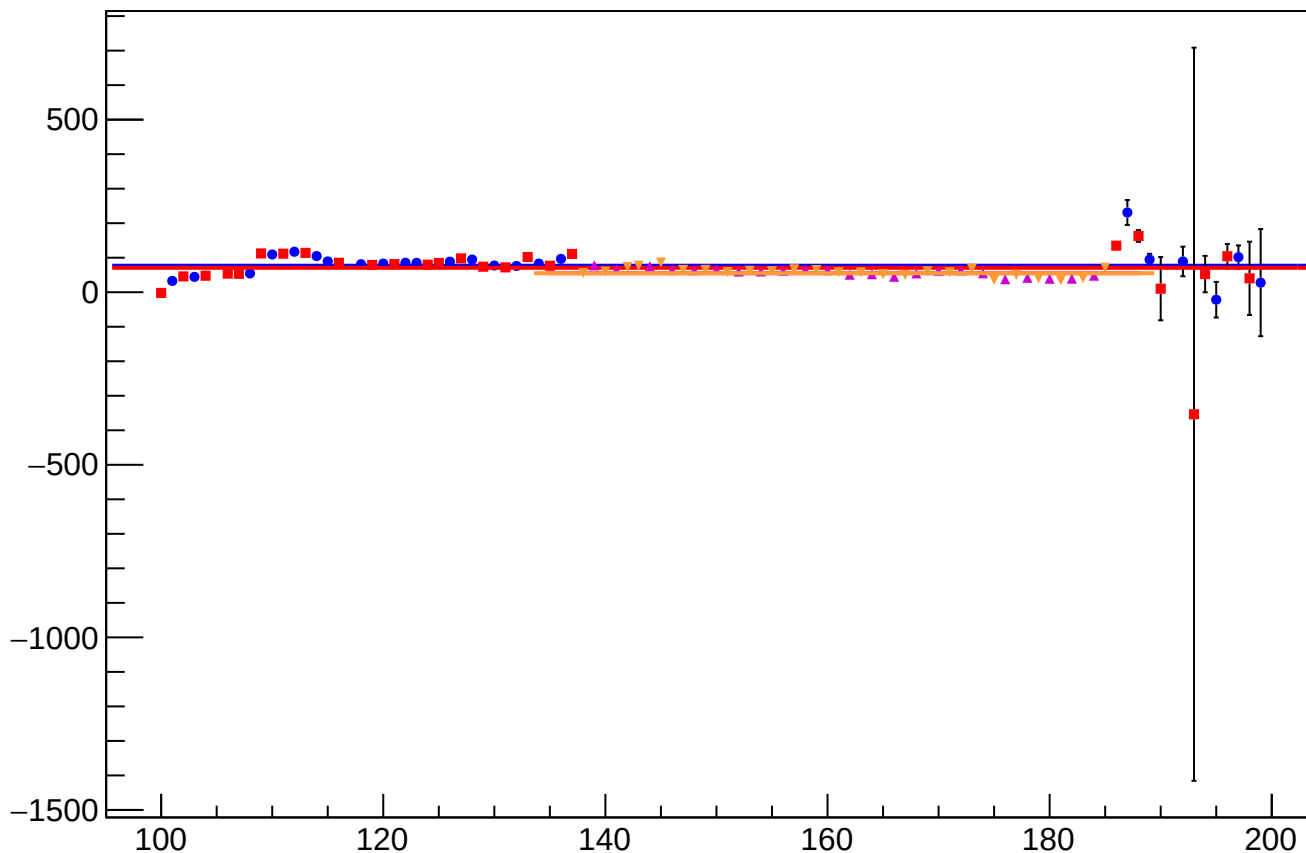
Right: 3.013 ± 0.224 χ^2/NDF : 592.0/48

In: -0.193 ± 0.136 χ^2/NDF : 1493.6/45

Out: 0.136 ± 0.133 χ^2/NDF : 1738.1/50

All: -0.025 ± 0.095 χ^2/NDF : 3234.8/96

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: 4490.8/25

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

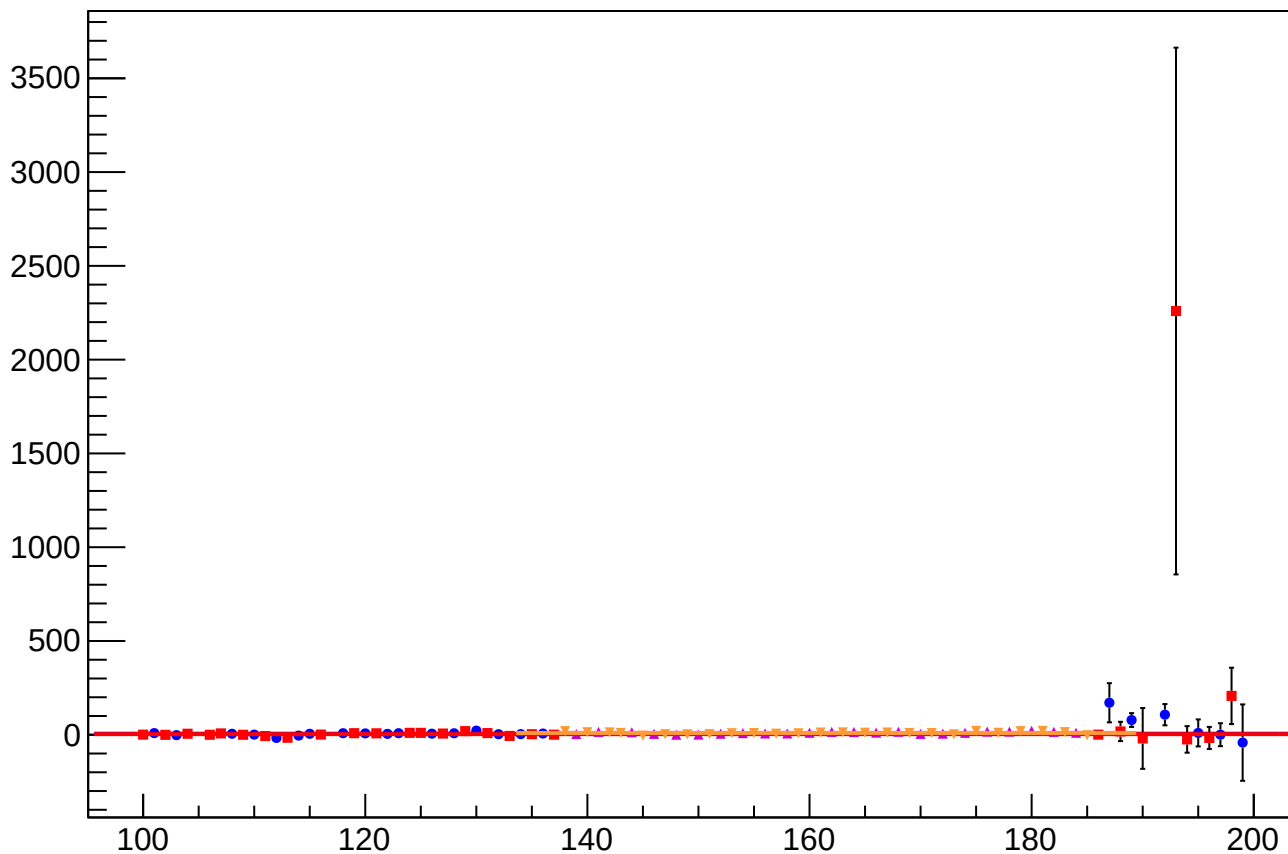
Right: 73.595 $\pm$ 0.397 χ^2 /NDF: 6835.8/48

In: 57.286 $\pm$ 0.184 χ^2 /NDF: 7218.6/45

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9775.6/50

All: 57.045 $\pm$ 0.129 χ^2 /NDF: 16997.6/96

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 : 429.9/25

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

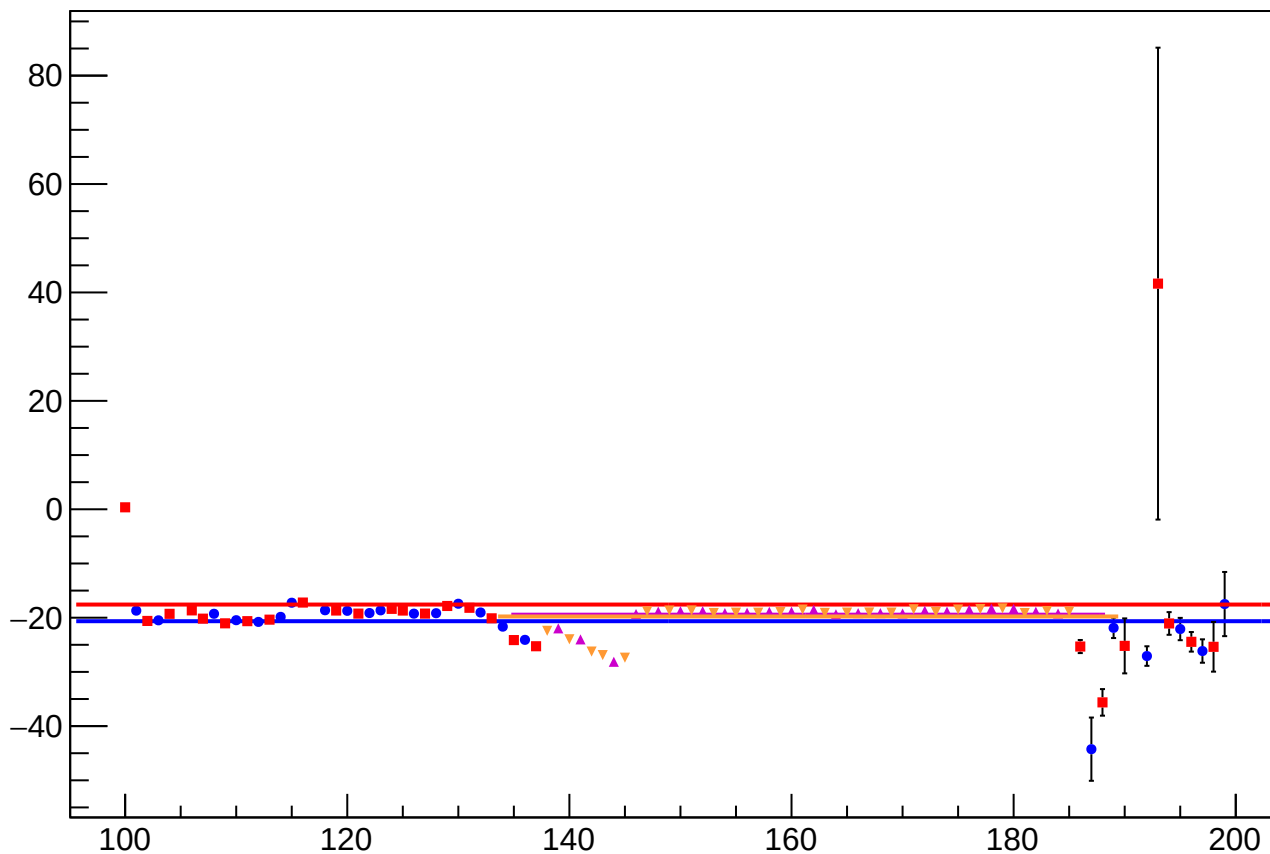
Right: 4.373 $\pm$ 0.257 χ^2/NDF : 841.5/48

In: 8.945 $\pm$ 0.155 χ^2/NDF : 1700.6/45

Out: 8.561 $\pm$ 0.153 χ^2/NDF : 2124.1/50

All: 8.750 $\pm$ 0.109 χ^2/NDF : 3827.8/96

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: 178437.7/25

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

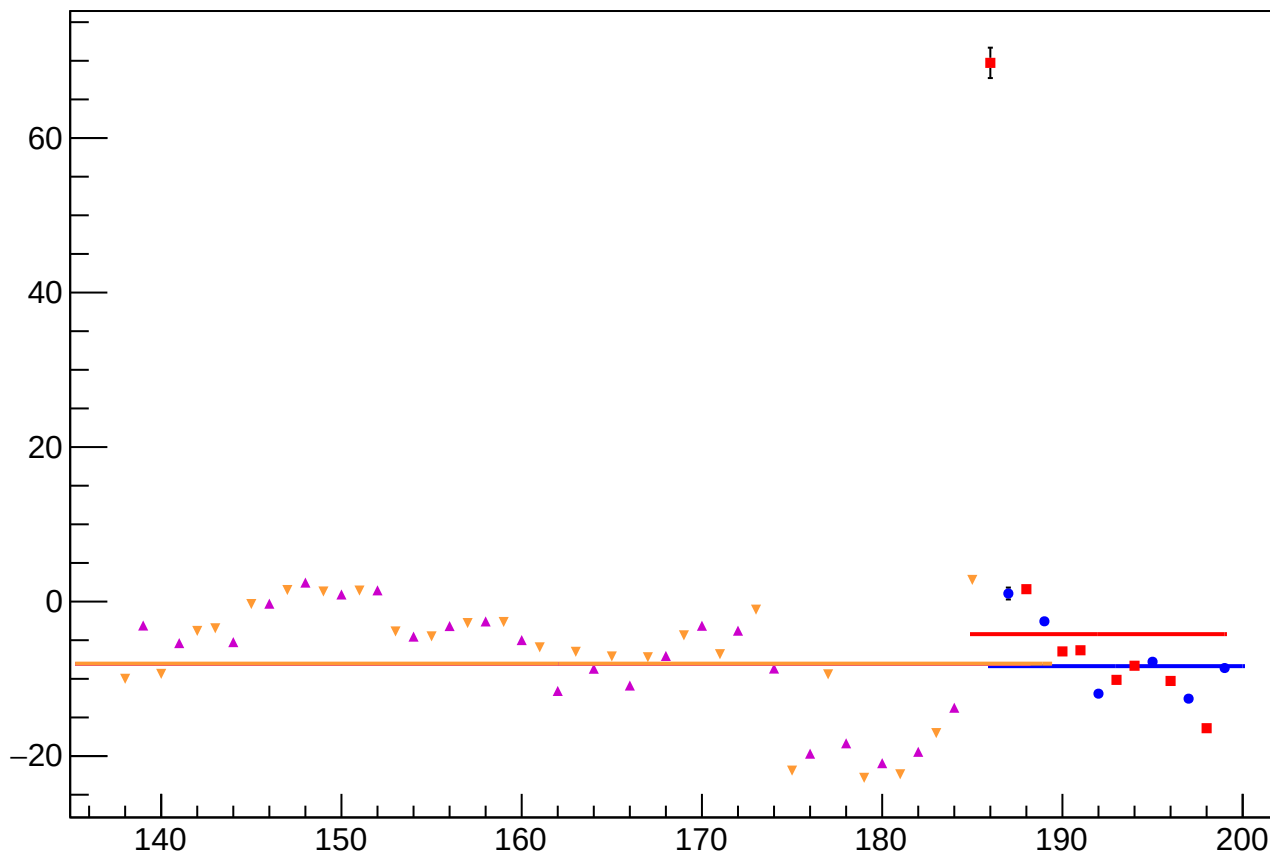
Right: -19.003 $\pm$ 0.013 χ^2 /NDF: 204410.6/48

In: -19.618 $\pm$ 0.007 χ^2 /NDF: 68921.9/45

Out: -19.422 $\pm$ 0.007 χ^2 /NDF: 282427.6/50

All: -19.518 $\pm$ 0.005 χ^2 /NDF: 351712.8/96

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.358+/-0.171 χ^2/NDF : 583.6/5
 Left Out: -8.034+/-0.070 χ^2/NDF : 12568.0/24
 Right Out: -4.215+/-0.125 χ^2/NDF : 3749.6/7
 Left In: -8.078+/-0.072 χ^2/NDF : 10541.6/22

Left: -8.055+/-0.050 χ^2/NDF : 23109.8/47

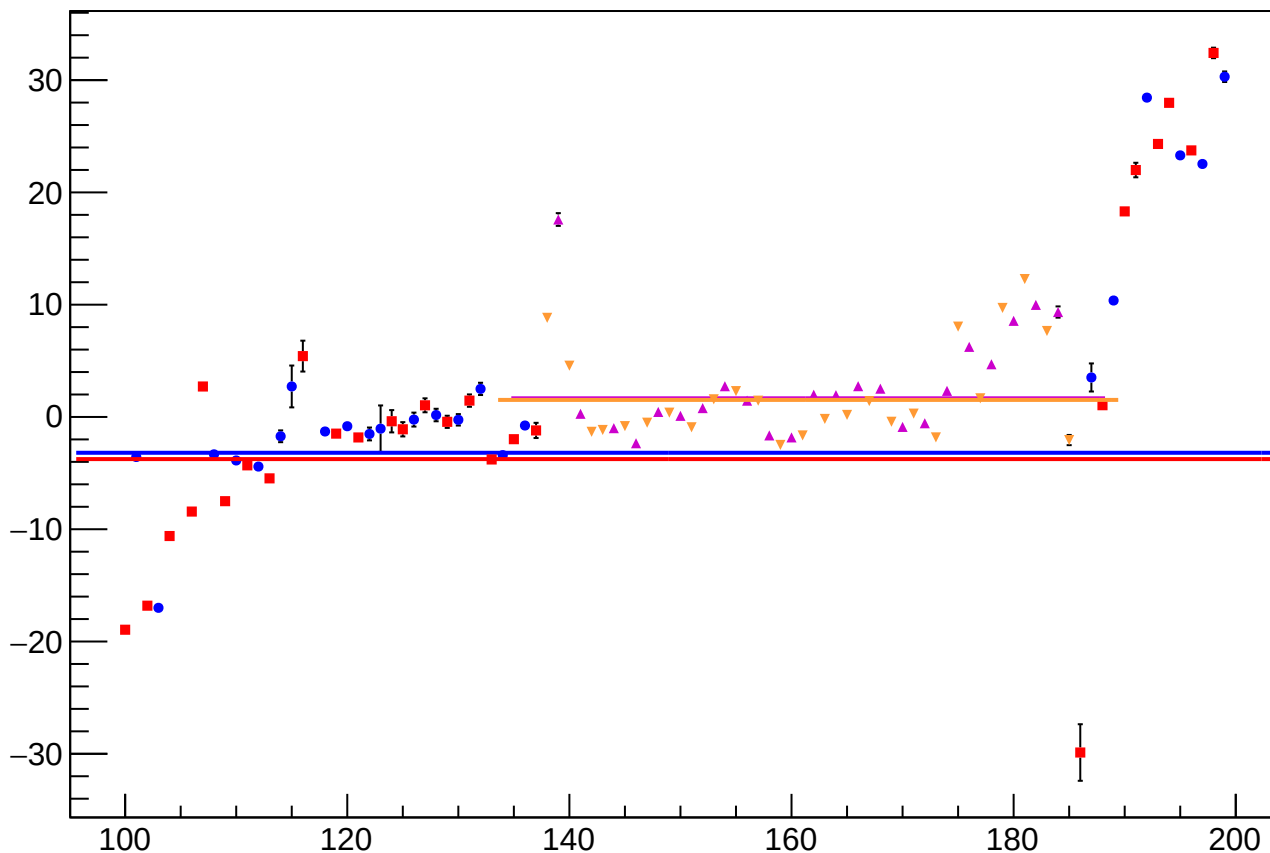
Right: -5.648+/-0.101 χ^2/NDF : 4715.0/13

In: -8.120+/-0.066 χ^2/NDF : 11127.4/28

Out: -7.113+/-0.061 χ^2/NDF : 17029.4/32

All: -7.576+/-0.045 χ^2/NDF : 28281.2/61

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: -3.753 ± 0.055 χ^2/NDF : 41842.4/26

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

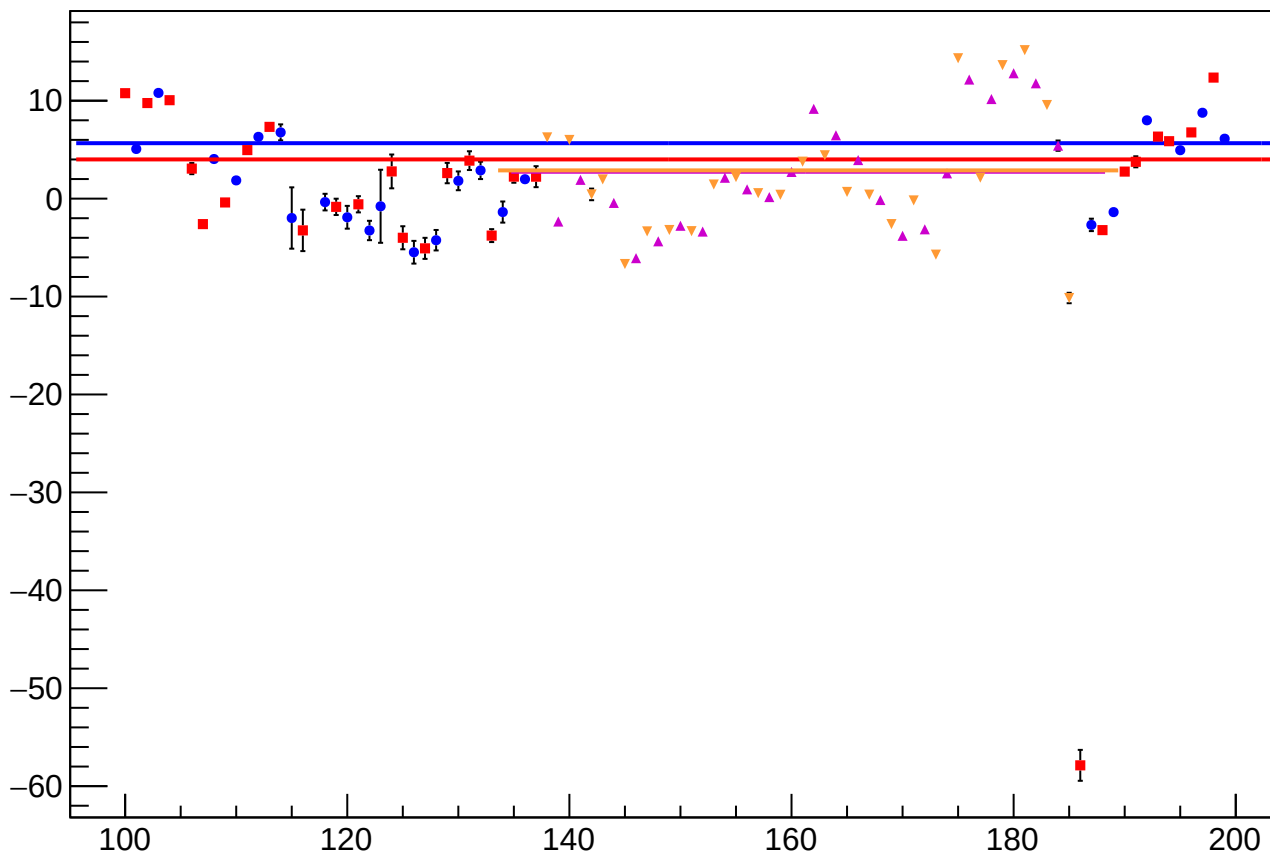
Right: -3.459 ± 0.038 χ^2/NDF : 73468.6/49

In: -0.938 ± 0.039 χ^2/NDF : 39548.3/45

Out: -1.089 ± 0.039 χ^2/NDF : 51340.4/51

All: -1.013 ± 0.027 χ^2/NDF : 90896.3/97

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: 4.005 ± 0.070 $\chi^2/\text{NDF}: 7601.0/26$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

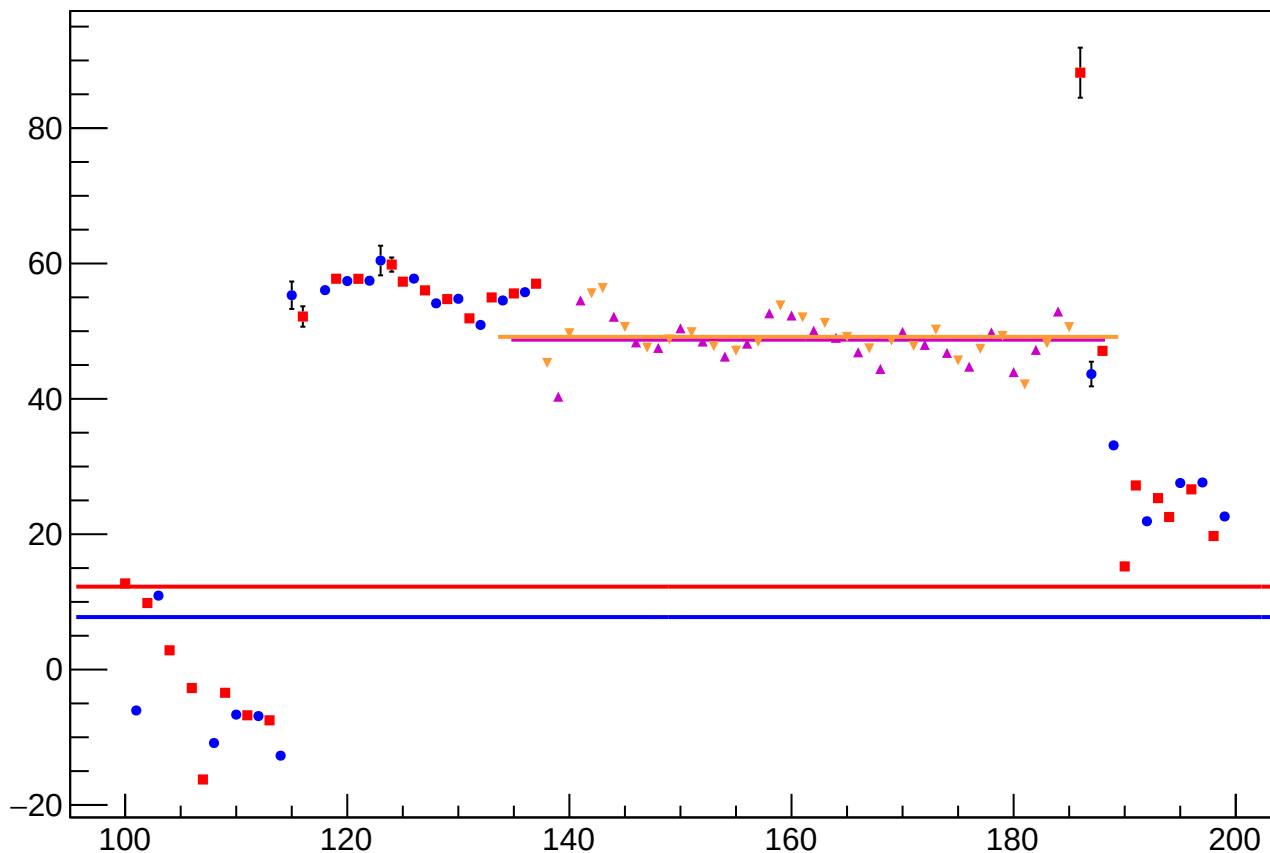
Right: 4.758 ± 0.052 $\chi^2/\text{NDF}: 10002.7/49$

In: 4.097 ± 0.052 $\chi^2/\text{NDF}: 10103.8/45$

Out: 3.445 ± 0.050 $\chi^2/\text{NDF}: 16621.6/51$

All: 3.754 ± 0.036 $\chi^2/\text{NDF}: 26807.1/97$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.761 ± 0.062 χ^2/NDF : 128297.1/22

Left Out: 49.163 ± 0.062 χ^2/NDF : 2259.9/24

Right Out: 12.255 ± 0.066 χ^2/NDF : 133489.8/26

Left In: 48.744 ± 0.064 χ^2/NDF : 2097.7/22

Left: 48.960 ± 0.044 χ^2/NDF : 4380.0/47

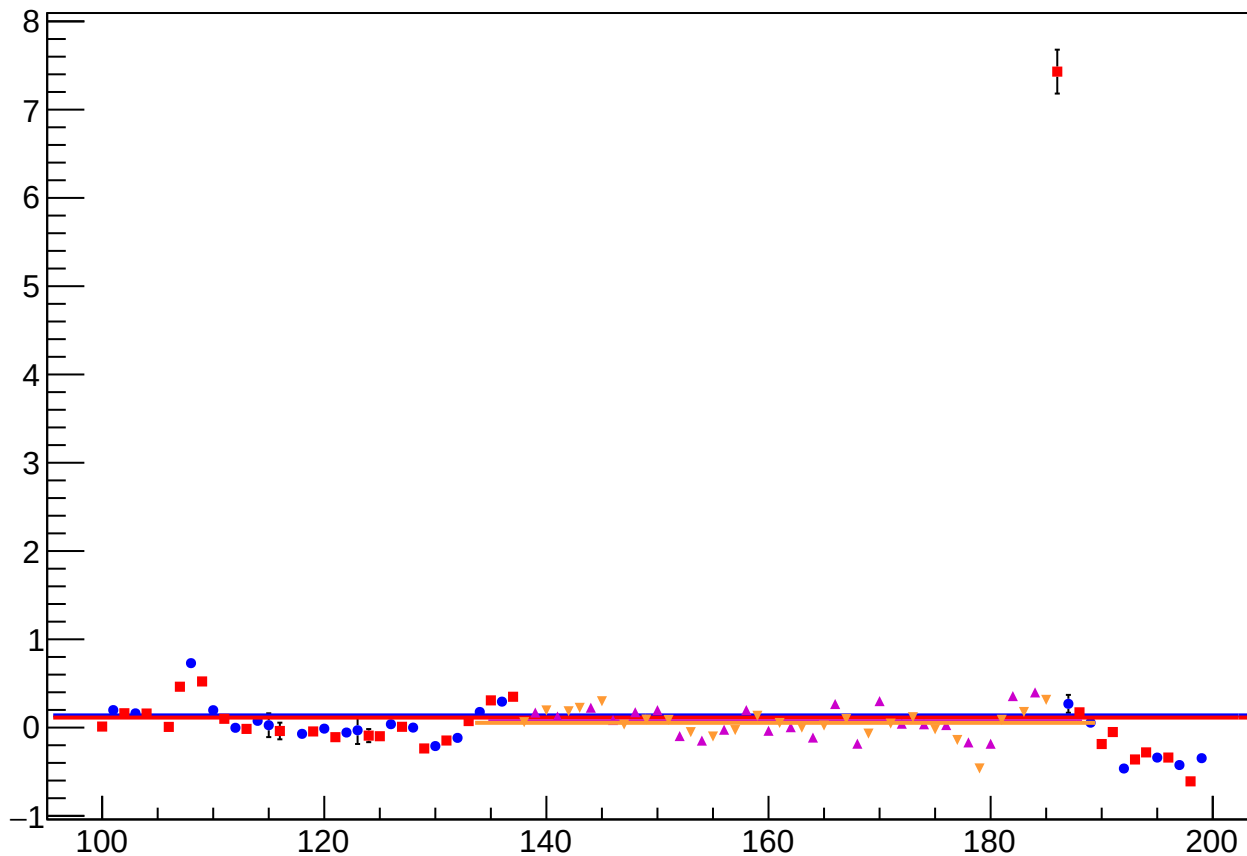
Right: 9.895 ± 0.045 χ^2/NDF : 264258.0/49

In: 27.778 ± 0.045 χ^2/NDF : 341712.3/45

Out: 31.804 ± 0.045 χ^2/NDF : 303824.7/51

All: 29.775 ± 0.032 χ^2/NDF : 649584.6/97

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.138+/-0.003 χ^2/NDF : 10067.3/22

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.114+/-0.002 χ^2/NDF : 9458.4/26

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

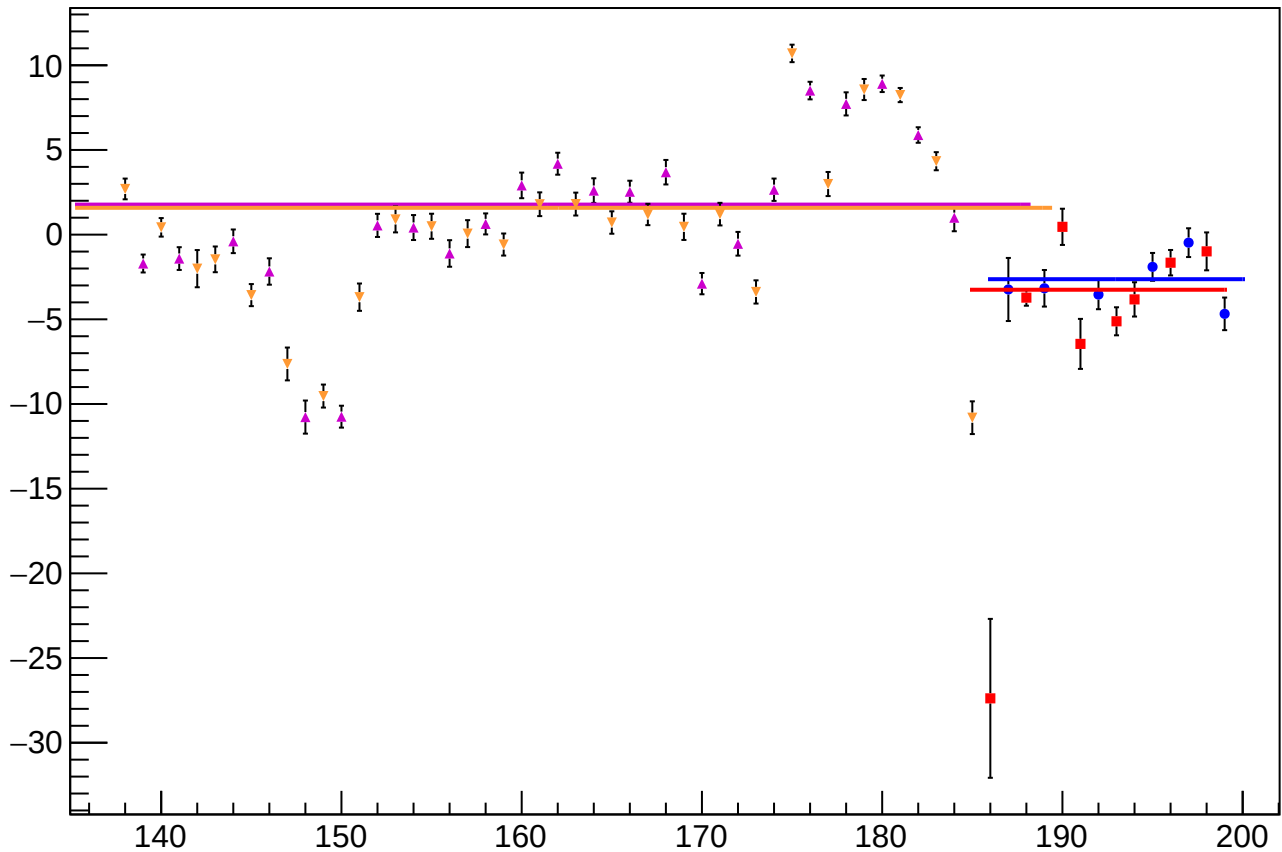
Right: 0.125+/-0.002 χ^2/NDF : 19573.4/49

In: 0.108+/-0.002 χ^2/NDF : 13610.8/45

Out: 0.088+/-0.002 χ^2/NDF : 12090.3/51

All: 0.098+/-0.001 χ^2/NDF : 25757.4/97

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: -3.254 ± 0.305 χ^2/NDF : 58.2/7

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 ± 0.241 χ^2/NDF : 72.9/13

In: 1.310 ± 0.128 χ^2/NDF : 1422.2/28

Out: 0.812 ± 0.122 χ^2/NDF : 1729.0/32

All: 1.049 ± 0.088 χ^2/NDF : 3159.2/61

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: -65.772 ± 0.183 $\chi^2/\text{NDF}: 8201.0/26$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

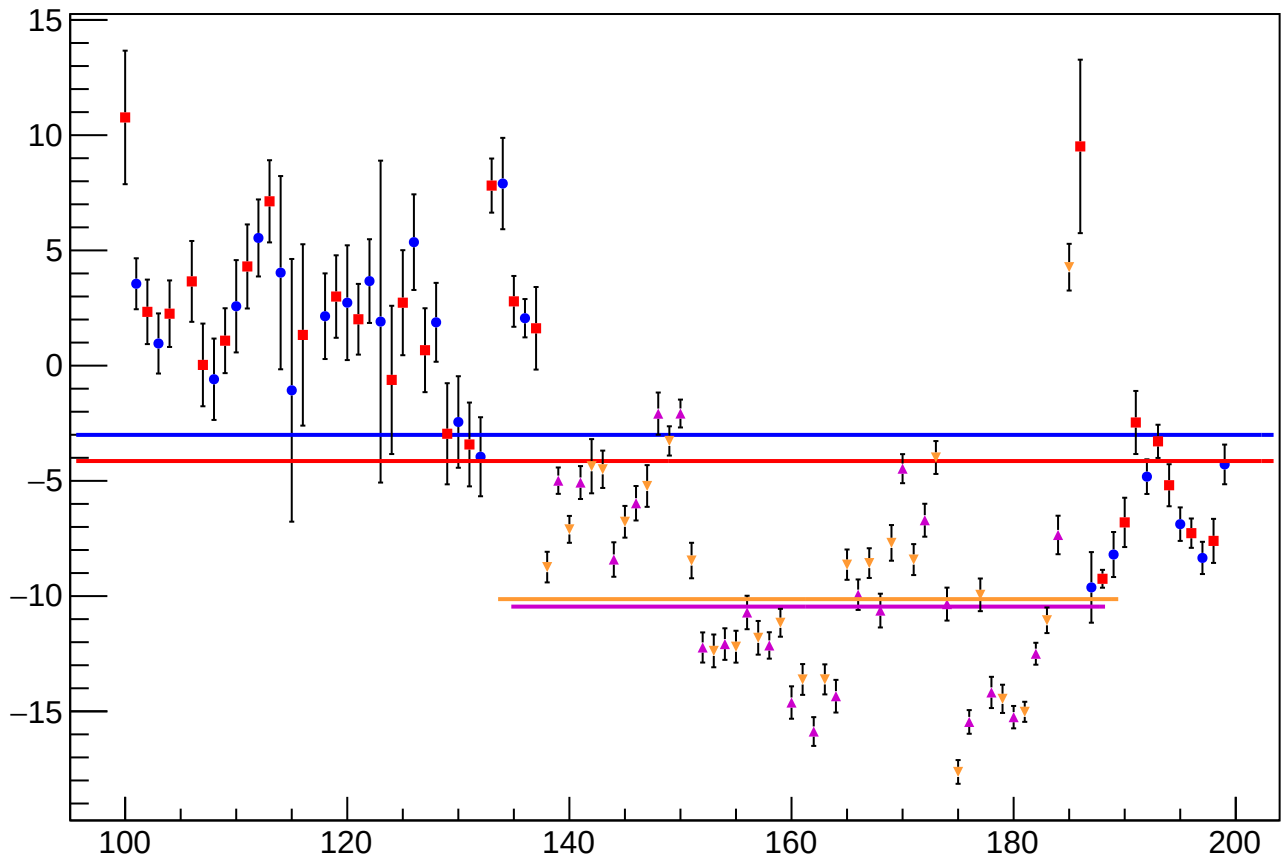
Right: -65.801 ± 0.135 $\chi^2/\text{NDF}: 13553.6/49$

In: -57.257 ± 0.096 $\chi^2/\text{NDF}: 8849.1/45$

Out: -57.478 ± 0.092 $\chi^2/\text{NDF}: 12071.3/51$

All: -57.373 ± 0.066 $\chi^2/\text{NDF}: 20923.2/97$

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.005 ± 0.262 χ^2/NDF : 343.8/22

Left Out: -10.131 ± 0.133 χ^2/NDF : 1055.4/24

Right Out: -4.140 ± 0.216 χ^2/NDF : 607.6/26

Left In: -10.456 ± 0.135 χ^2/NDF : 1002.7/22

Left: -10.291 ± 0.095 χ^2/NDF : 2061.1/47

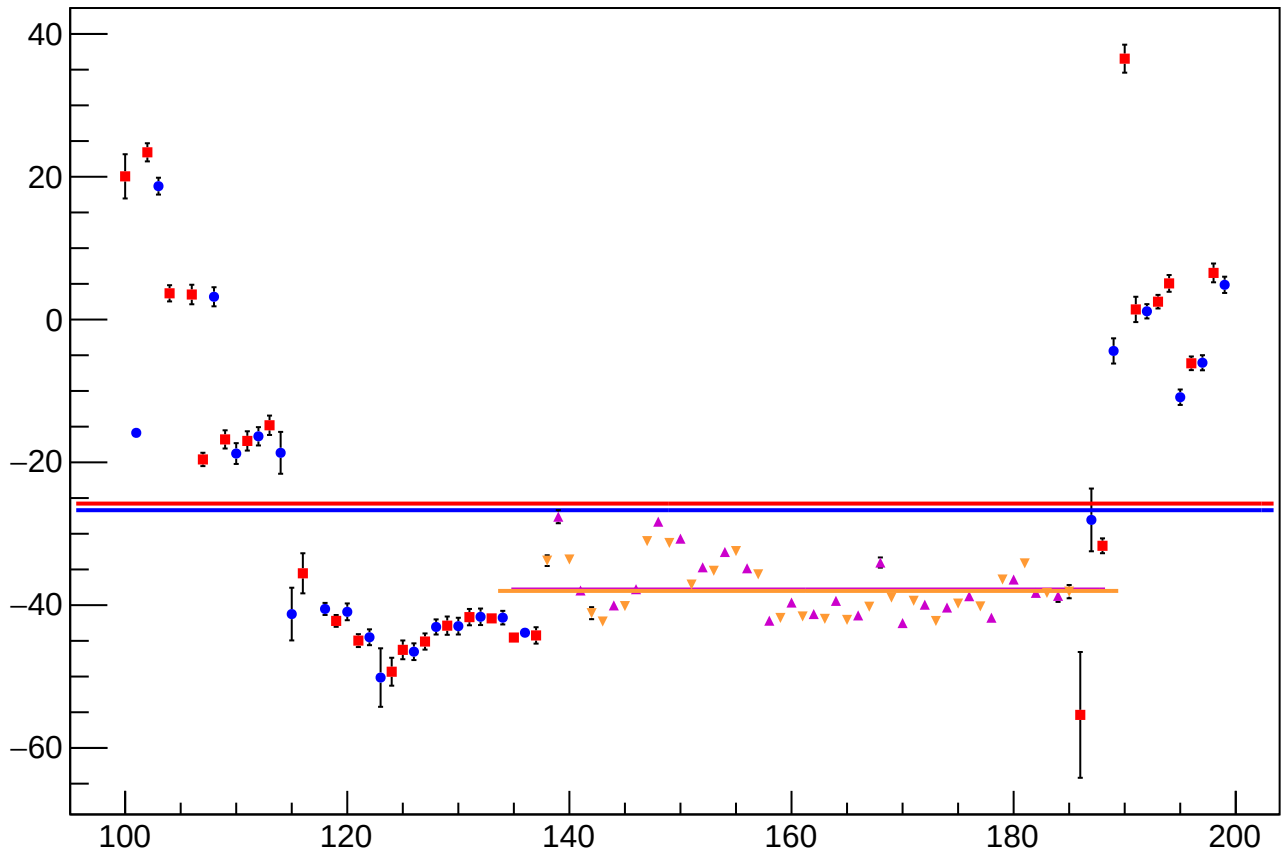
Right: -3.680 ± 0.167 χ^2/NDF : 962.7/49

In: -8.897 ± 0.120 χ^2/NDF : 1987.4/45

Out: -8.486 ± 0.113 χ^2/NDF : 2221.9/51

All: -8.680 ± 0.082 χ^2/NDF : 4215.5/97

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: -25.774 ± 0.214 $\chi^2/\text{NDF}: 10685.0/26$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

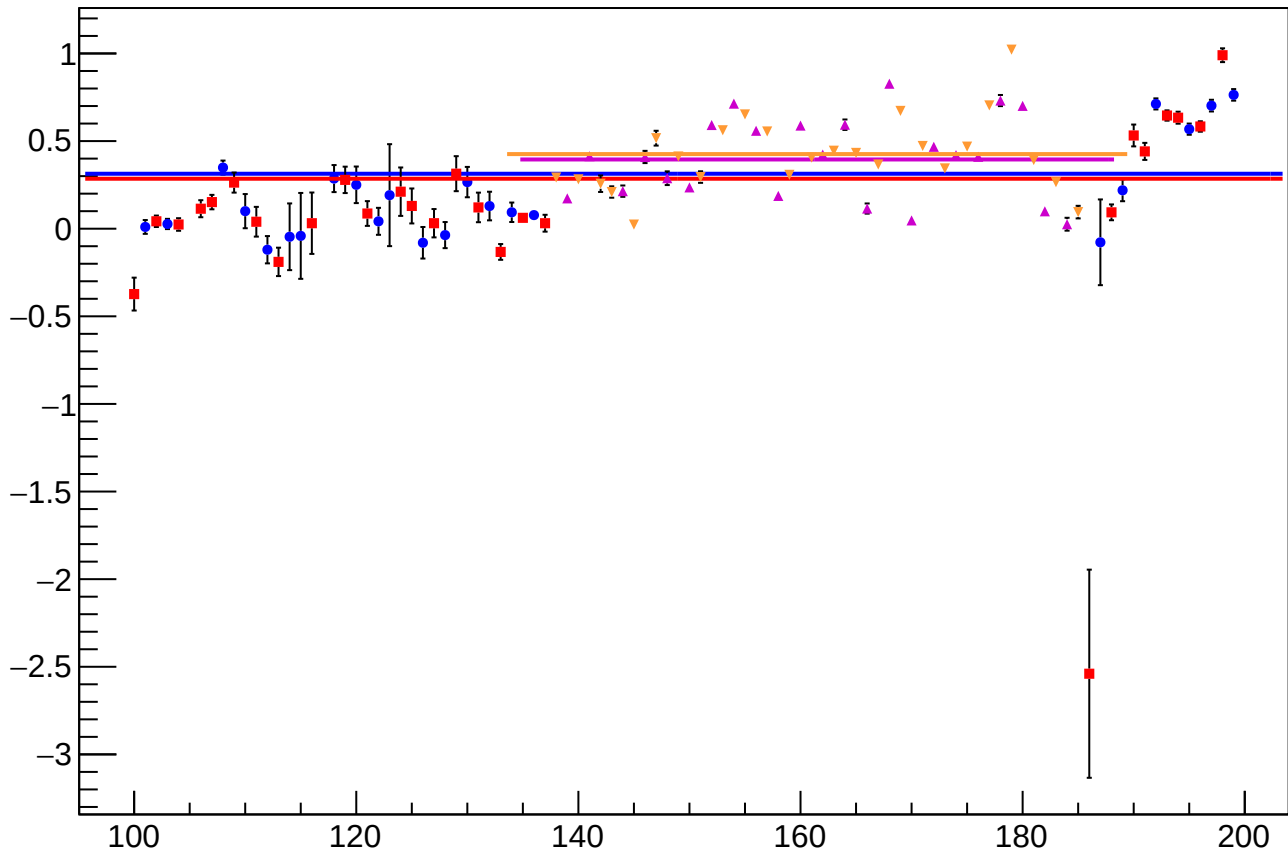
Right: -26.208 ± 0.156 $\chi^2/\text{NDF}: 18172.6/49$

In: -35.338 ± 0.108 $\chi^2/\text{NDF}: 10353.9/45$

Out: -35.134 ± 0.104 $\chi^2/\text{NDF}: 14122.9/51$

All: -35.232 ± 0.075 $\chi^2/\text{NDF}: 24478.6/97$

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: 0.285 $\pm$ 0.009 χ^2 /NDF: 1175.7/26

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

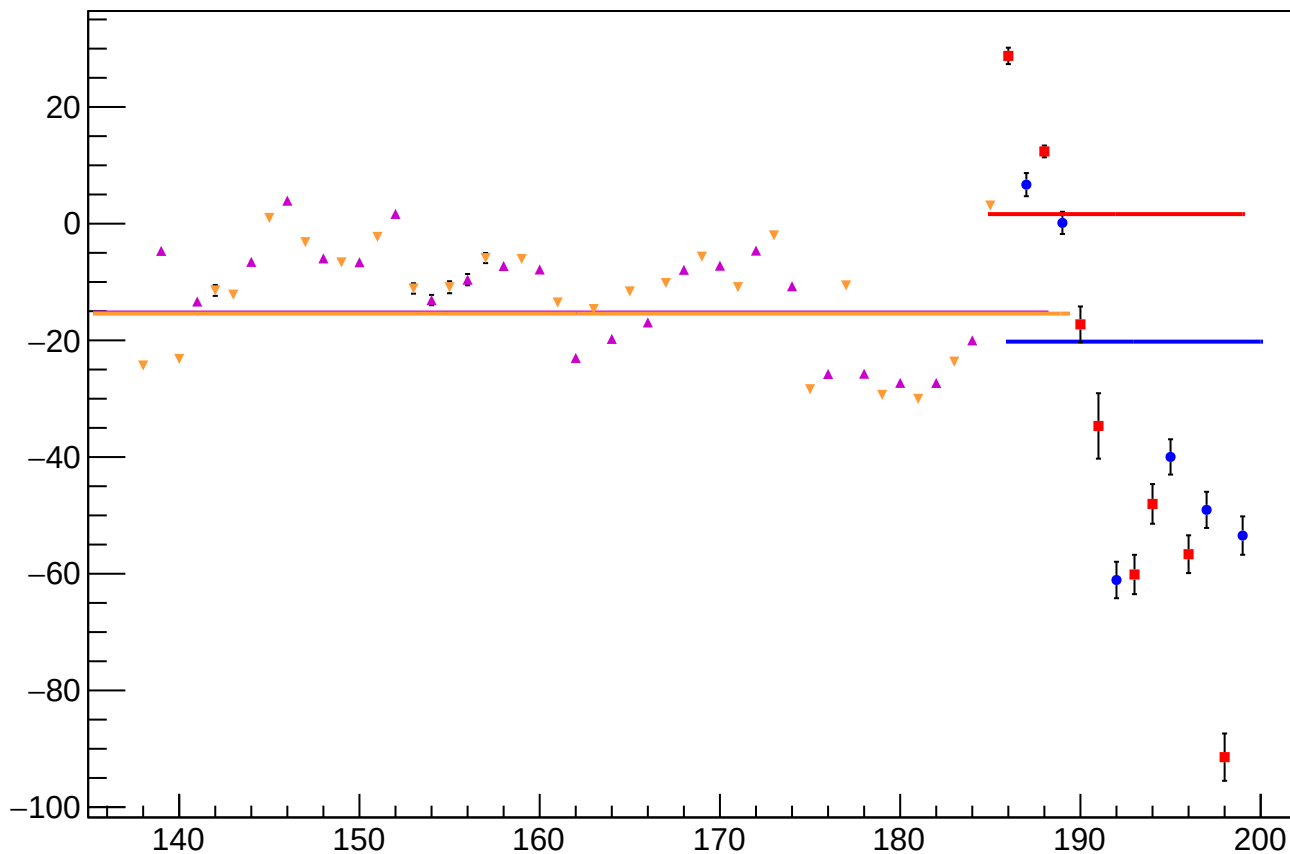
Right: 0.298 $\pm$ 0.007 χ^2 /NDF: 2114.6/49

In: 0.376 $\pm$ 0.005 χ^2 /NDF:2784.8/45

Out: 0.390 $\pm$ 0.005 χ^2 /NDF:2652.2/51

All: 0.383 $\pm$ 0.003 χ^2 /NDF: 5441.5/97

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.220 ± 1.033 $\chi^2/\text{NDF}: 700.2/5$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: 1.639 ± 0.717 $\chi^2/\text{NDF}: 1963.1/7$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

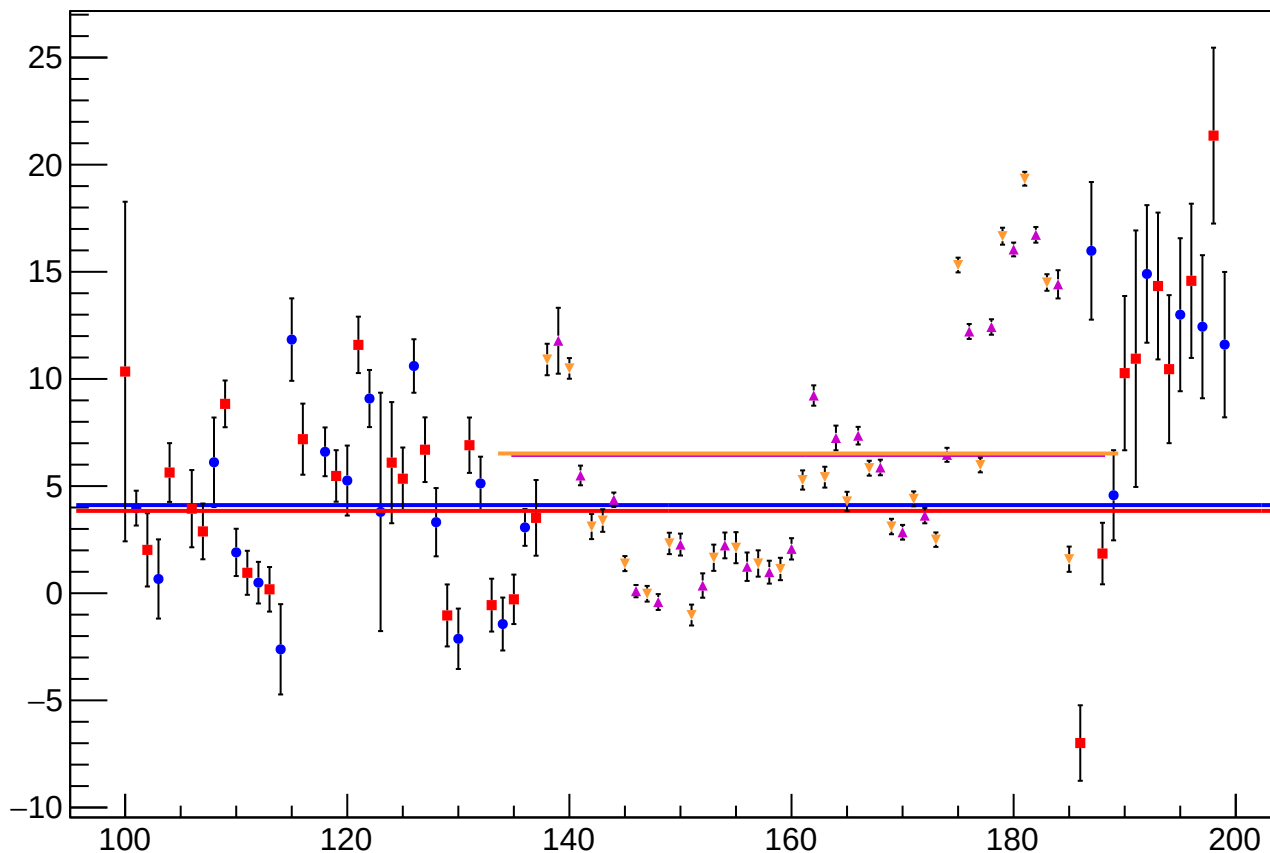
Right: -5.465 ± 0.589 $\chi^2/\text{NDF}: 2965.6/13$

In: -15.282 ± 0.106 $\chi^2/\text{NDF}: 9380.6/28$

Out: -15.053 ± 0.104 $\chi^2/\text{NDF}: 13026.3/32$

All: -15.165 ± 0.074 $\chi^2/\text{NDF}: 22409.4/61$

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: 3.843 ± 0.299 $\chi^2/\text{NDF}: 218.2/26$

Left In: 6.452 ± 0.086 $\chi^2/\text{NDF}: 3948.0/22$

Left: 6.487 ± 0.061 $\chi^2/\text{NDF}: 8933.5/47$

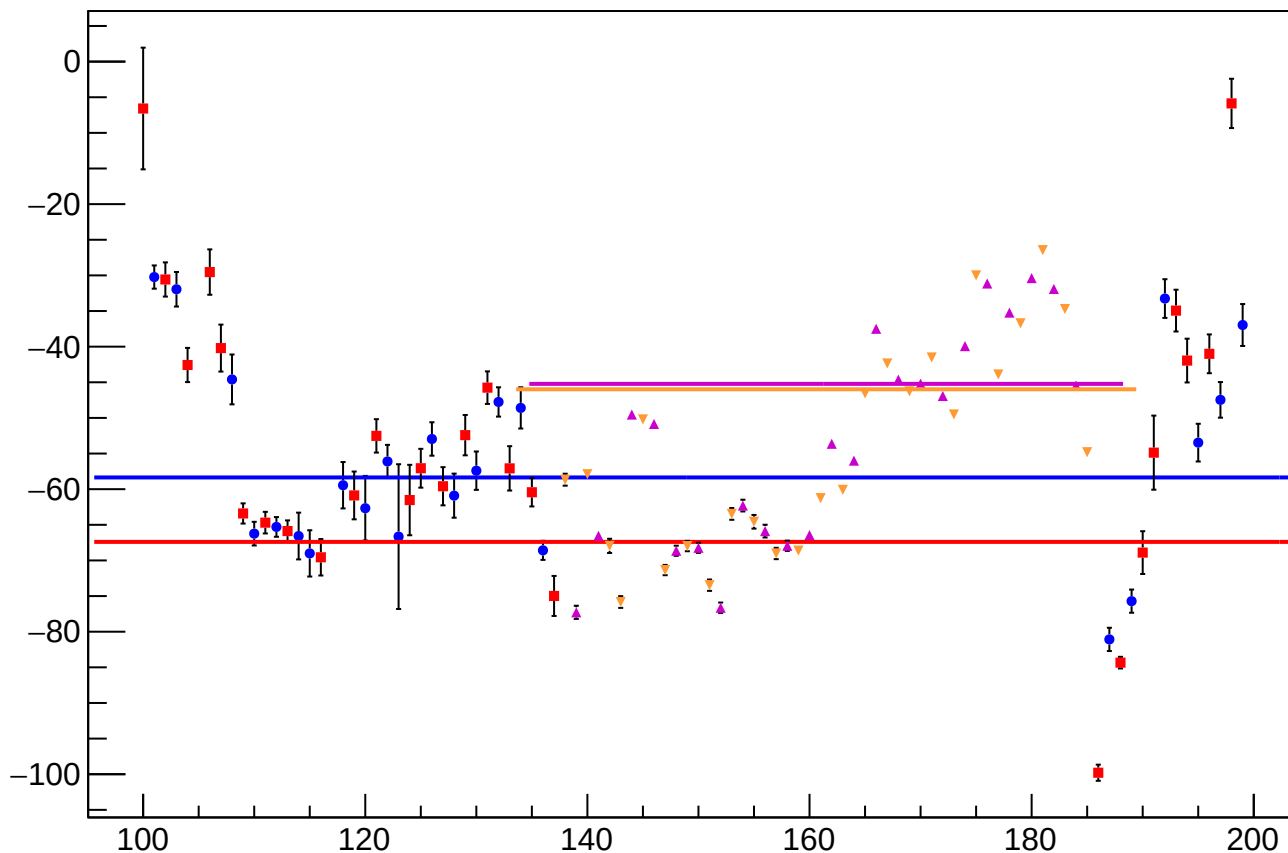
Right: 3.977 ± 0.212 $\chi^2/\text{NDF}: 397.8/49$

In: 6.275 ± 0.083 $\chi^2/\text{NDF}: 4183.1/45$

Out: 6.319 ± 0.082 $\chi^2/\text{NDF}: 5277.6/51$

All: 6.297 ± 0.058 $\chi^2/\text{NDF}: 9460.8/97$

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -58.353+/-0.462 χ^2/NDF : 1069.2/22

Left Out: -45.982+/-0.106 χ^2/NDF :17360.1/24

Right Out: -67.397+/-0.397 χ^2/NDF : 2688.9/26

Left In: -45.222+/-0.107 χ^2/NDF :15600.2/22

Left: -45.605+/-0.075 χ^2/NDF : 32985.7/47

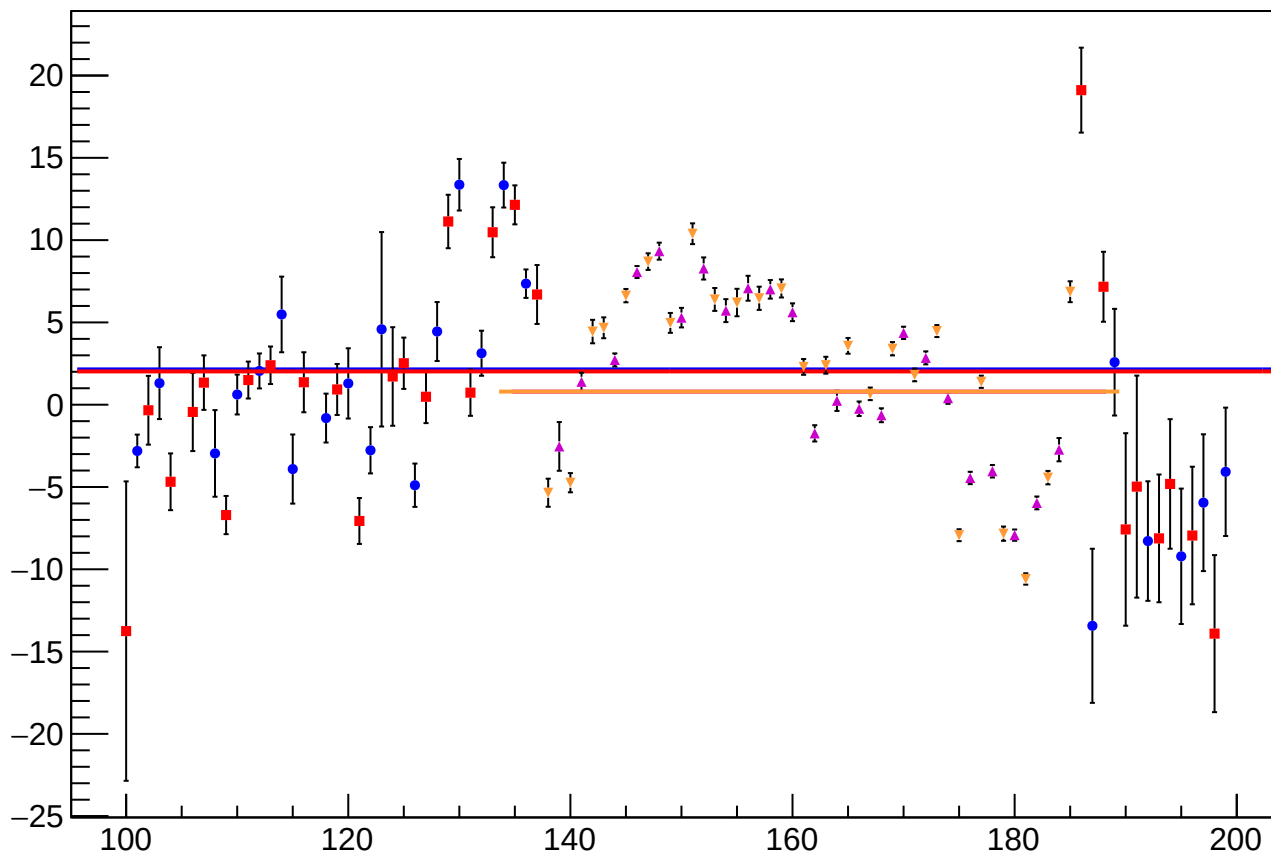
Right: -63.554+/-0.301 χ^2/NDF : 3978.3/49

In: -45.892+/-0.104 χ^2/NDF :17435.6/45

Out: -47.412+/-0.103 χ^2/NDF :22761.2/51

All: -46.665+/-0.073 χ^2/NDF : 40304.5/97

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: 2.023 ± 0.342 χ^2/NDF : 344.9/26

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

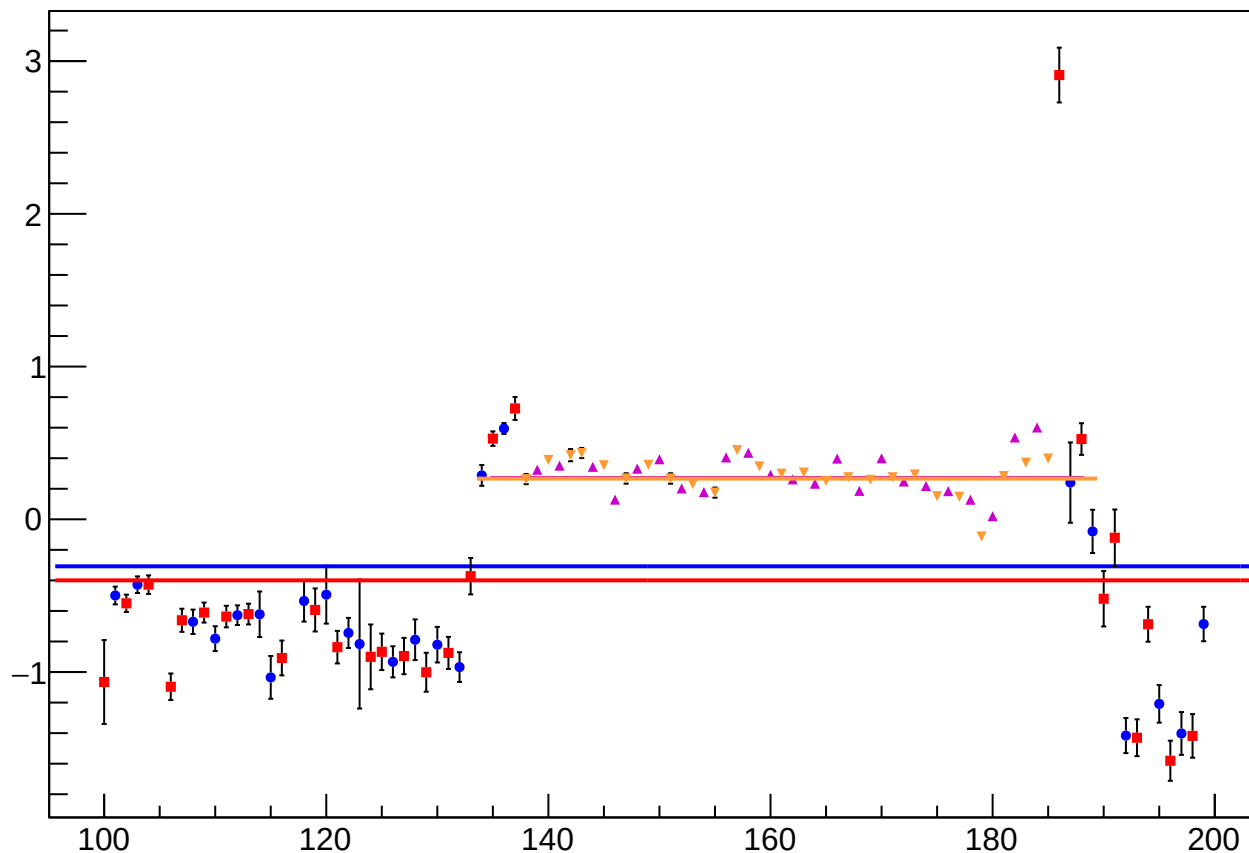
Right: 2.084 ± 0.241 χ^2/NDF : 621.6/49

In: 0.893 ± 0.093 χ^2/NDF : 2983.8/45

Out: 0.886 ± 0.092 χ^2/NDF : 4116.7/51

All: 0.890 ± 0.065 χ^2/NDF : 7100.6/97

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: -0.400 ± 0.018 χ^2/NDF : 1478.5/26

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

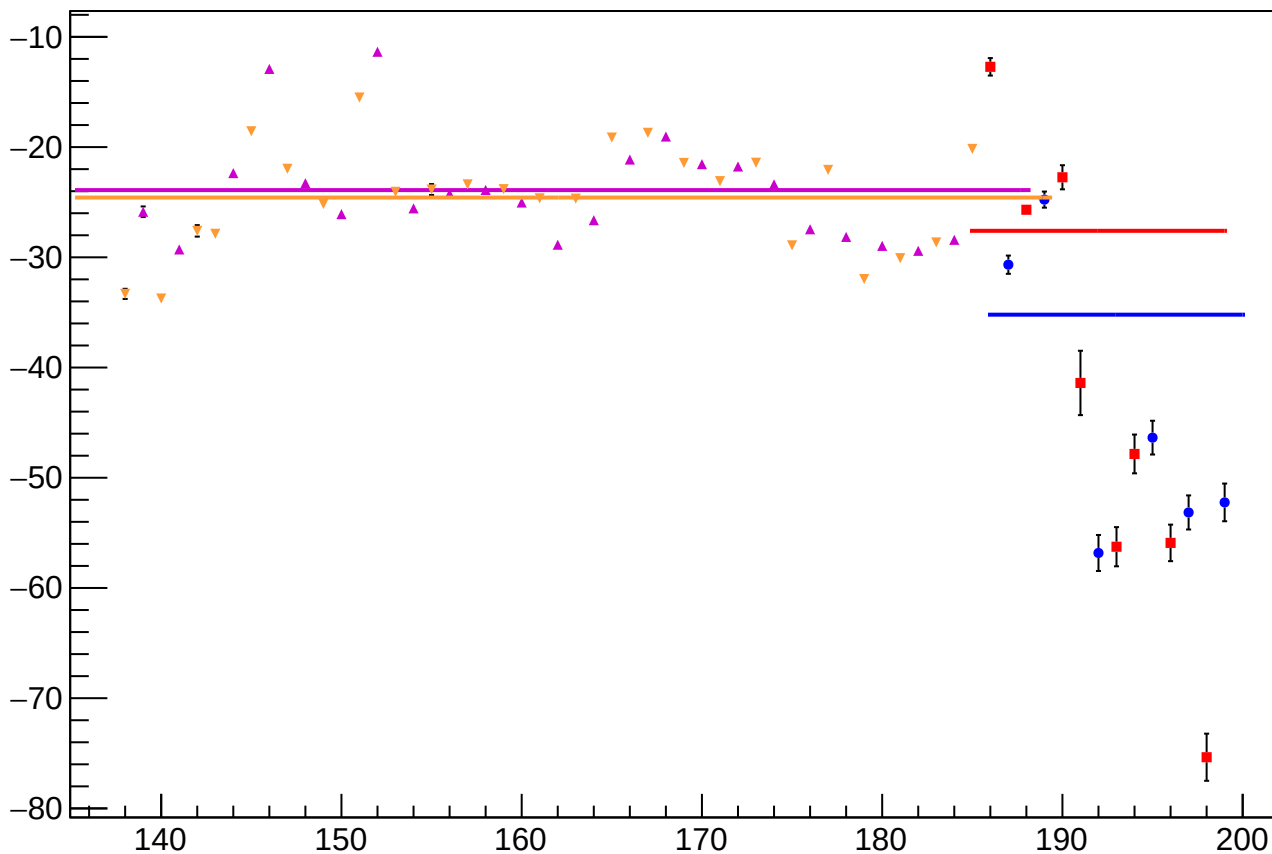
Right: -0.354 ± 0.013 χ^2/NDF : 2690.6/49

In: 0.237 ± 0.004 χ^2/NDF : 3153.8/45

Out: 0.228 ± 0.004 χ^2/NDF : 3519.2/51

All: 0.233 ± 0.003 χ^2/NDF : 6675.1/97

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: -27.596 ± 0.331 χ^2/NDF : 1596.2/7

Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

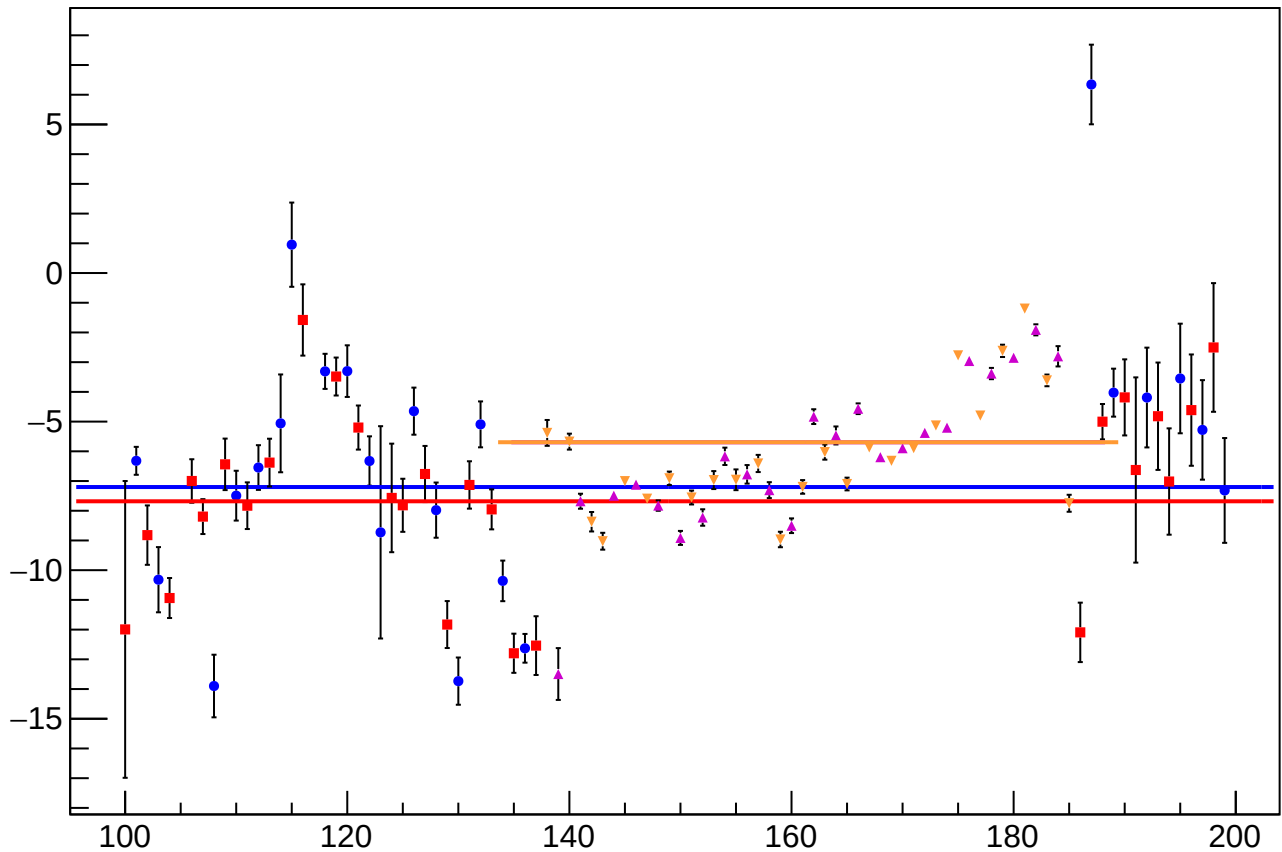
Right: -30.247 ± 0.267 χ^2/NDF : 2477.4/13

In: -24.044 ± 0.051 χ^2/NDF : 10469.0/28

Out: -24.647 ± 0.050 χ^2/NDF : 10268.1/32

All: -24.348 ± 0.036 χ^2/NDF : 20808.3/61

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: -7.682 ± 0.170 χ^2/NDF : 284.0/26

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

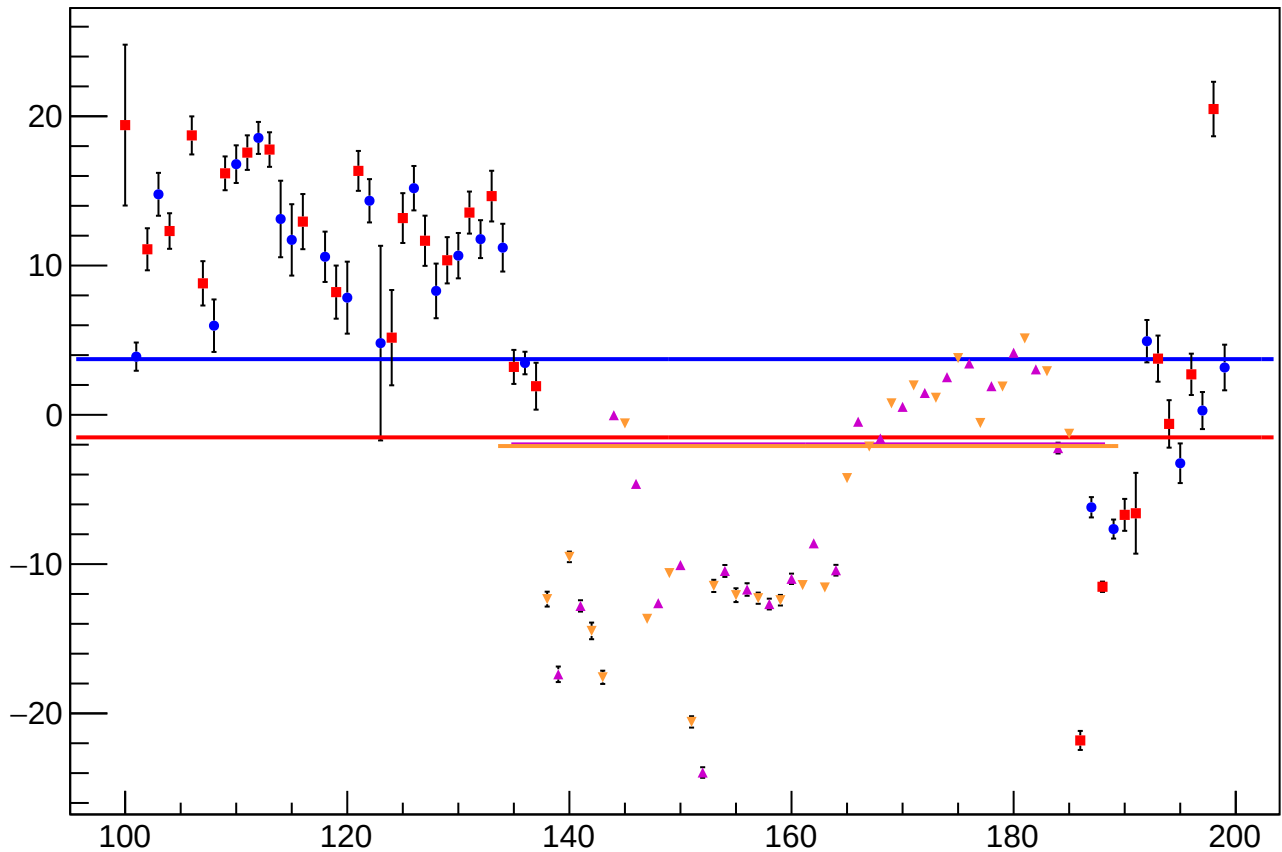
Right: -7.451 ± 0.123 χ^2/NDF : 800.1/49

In: -5.772 ± 0.040 χ^2/NDF : 2890.8/45

Out: -5.804 ± 0.040 χ^2/NDF : 2671.2/51

All: -5.788 ± 0.028 χ^2/NDF : 5562.3/97

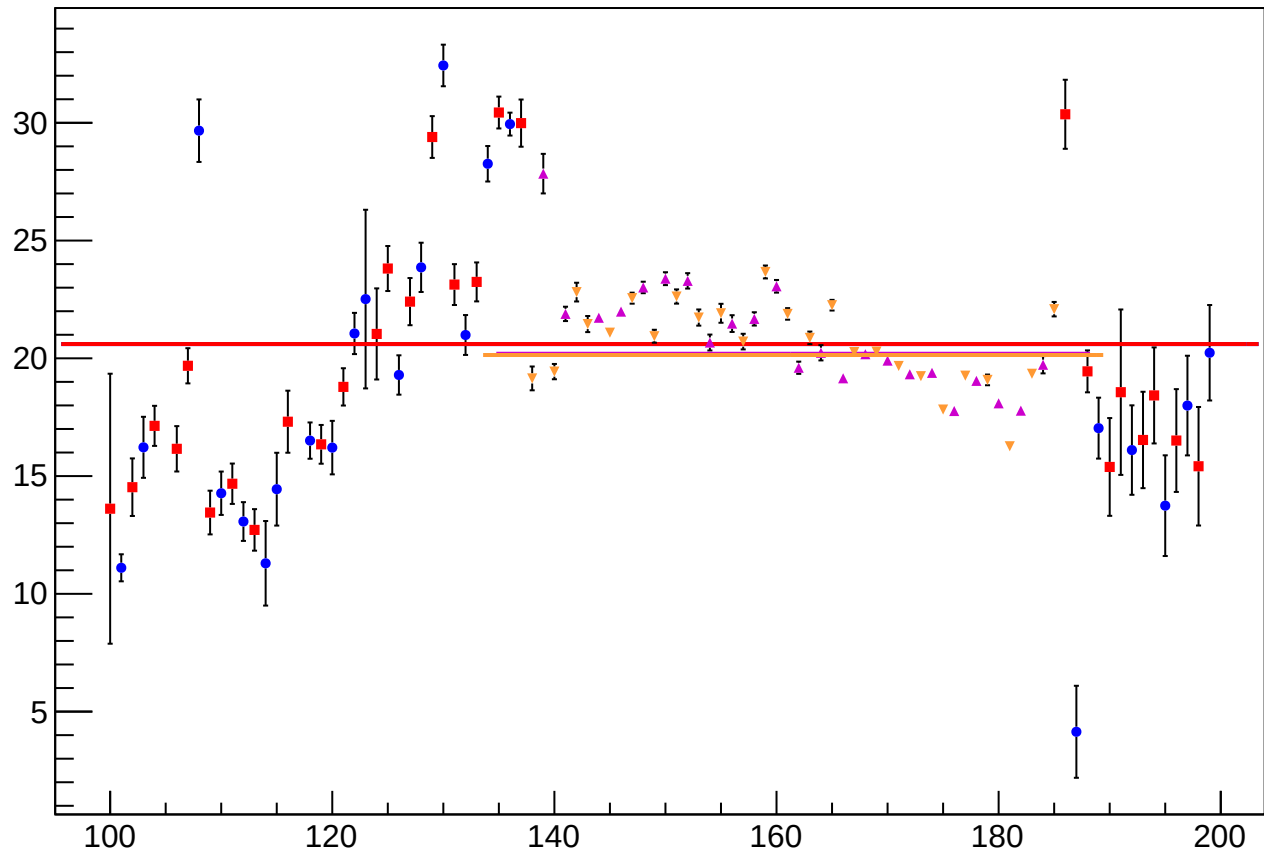
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



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: -1.510 ± 0.211 $\chi^2/\text{NDF}: 4065.6/26$
 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: 0.629 ± 0.162 $\chi^2/\text{NDF}: 5491.4/49$
 In: -1.757 ± 0.050 $\chi^2/\text{NDF}: 17042.0/45$
 Out: -2.059 ± 0.050 $\chi^2/\text{NDF}: 20378.1/51$
 All: -1.909 ± 0.035 $\chi^2/\text{NDF}: 37438.3/97$

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: 20.607 $\pm$ 0.200 χ^2 /NDF: 787.3/26

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

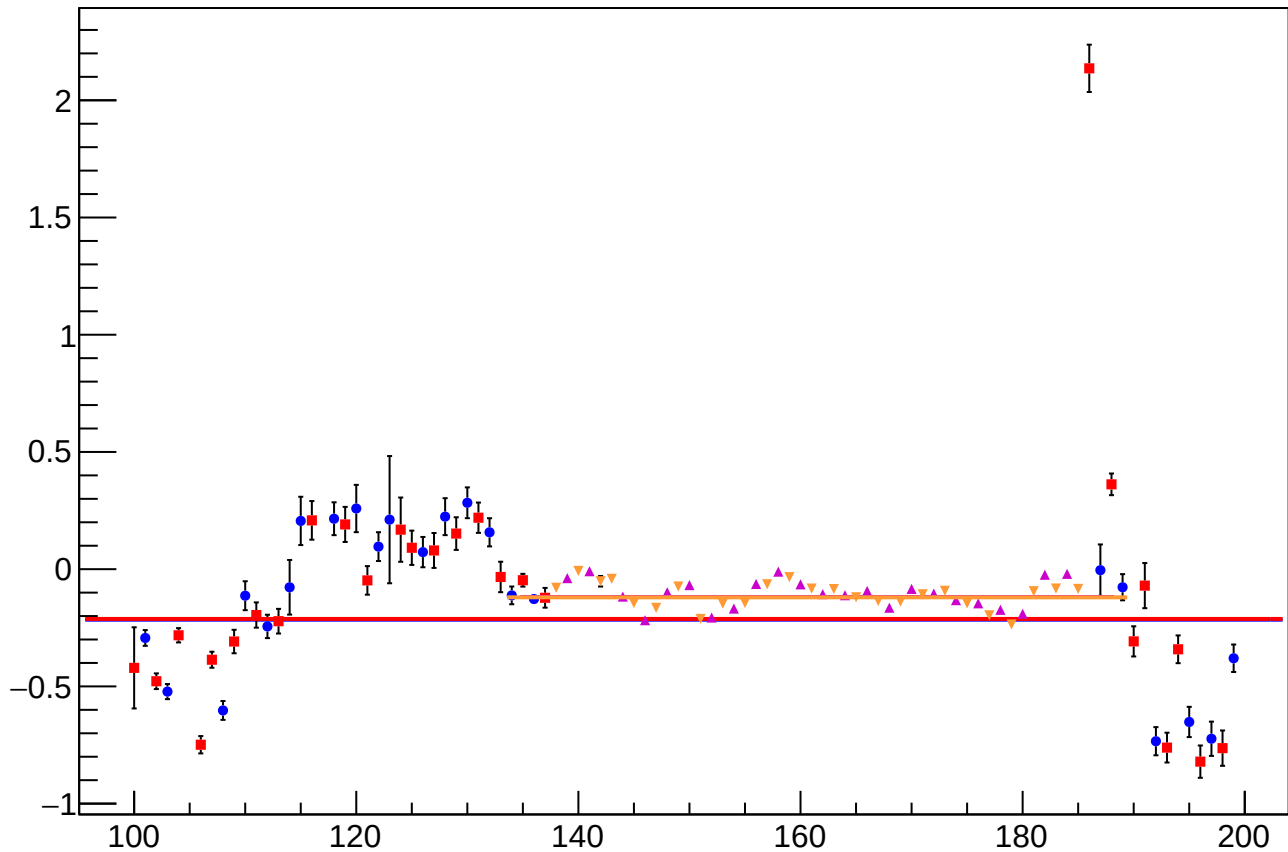
Right: 20.606 $\pm$ 0.143 χ^2 /NDF: 2097.1/49

In: 20.214 $\pm$ 0.045 χ^2 /NDF: 2761.1/45

Out: 20.164 $\pm$ 0.045 χ^2 /NDF: 2211.5/51

All: 20.189 $\pm$ 0.032 χ^2 /NDF: 4973.2/97

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: -0.212 ± 0.010 χ^2/NDF : 1445.2/26

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

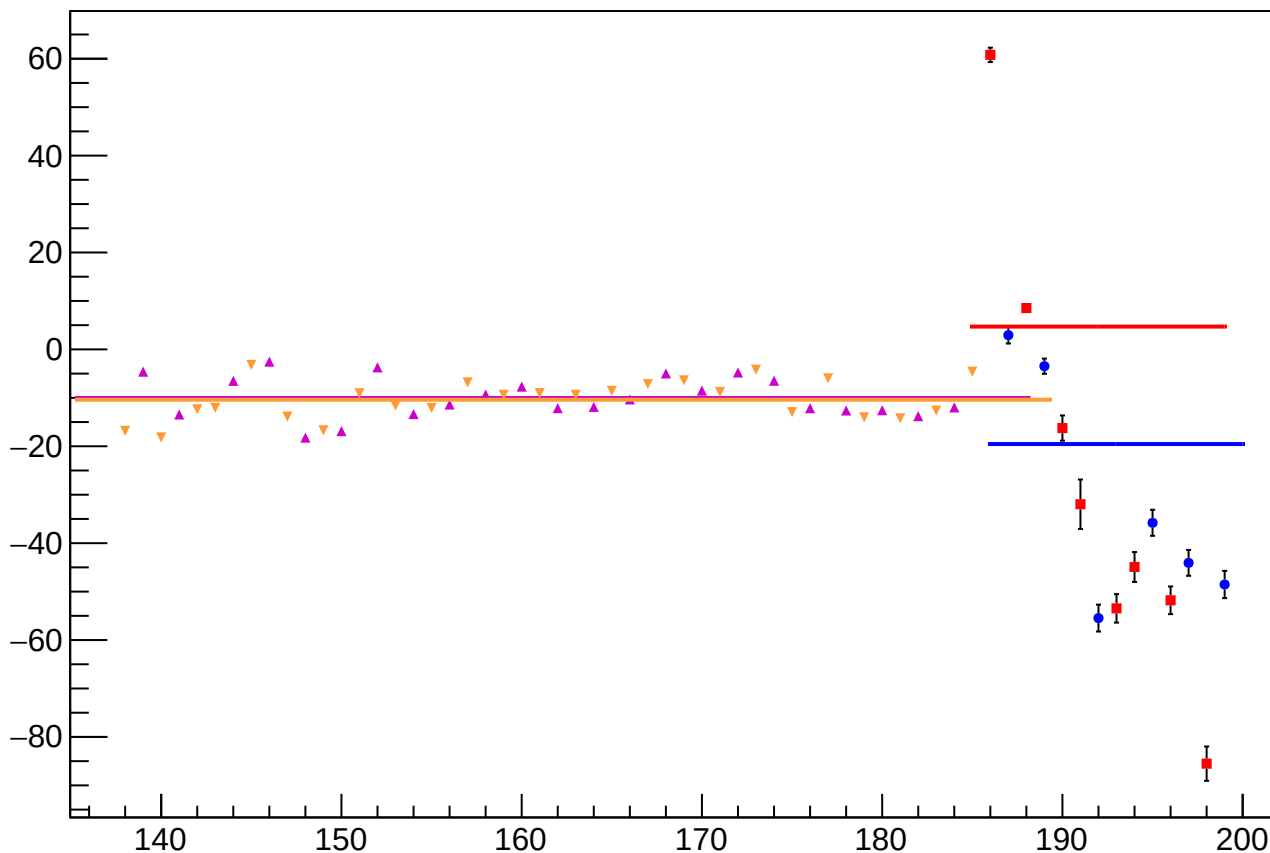
Right: -0.214 ± 0.007 χ^2/NDF : 2103.4/49

In: -0.123 ± 0.002 χ^2/NDF : 1463.8/45

Out: -0.124 ± 0.002 χ^2/NDF : 2058.1/51

All: -0.123 ± 0.001 χ^2/NDF : 3522.2/97

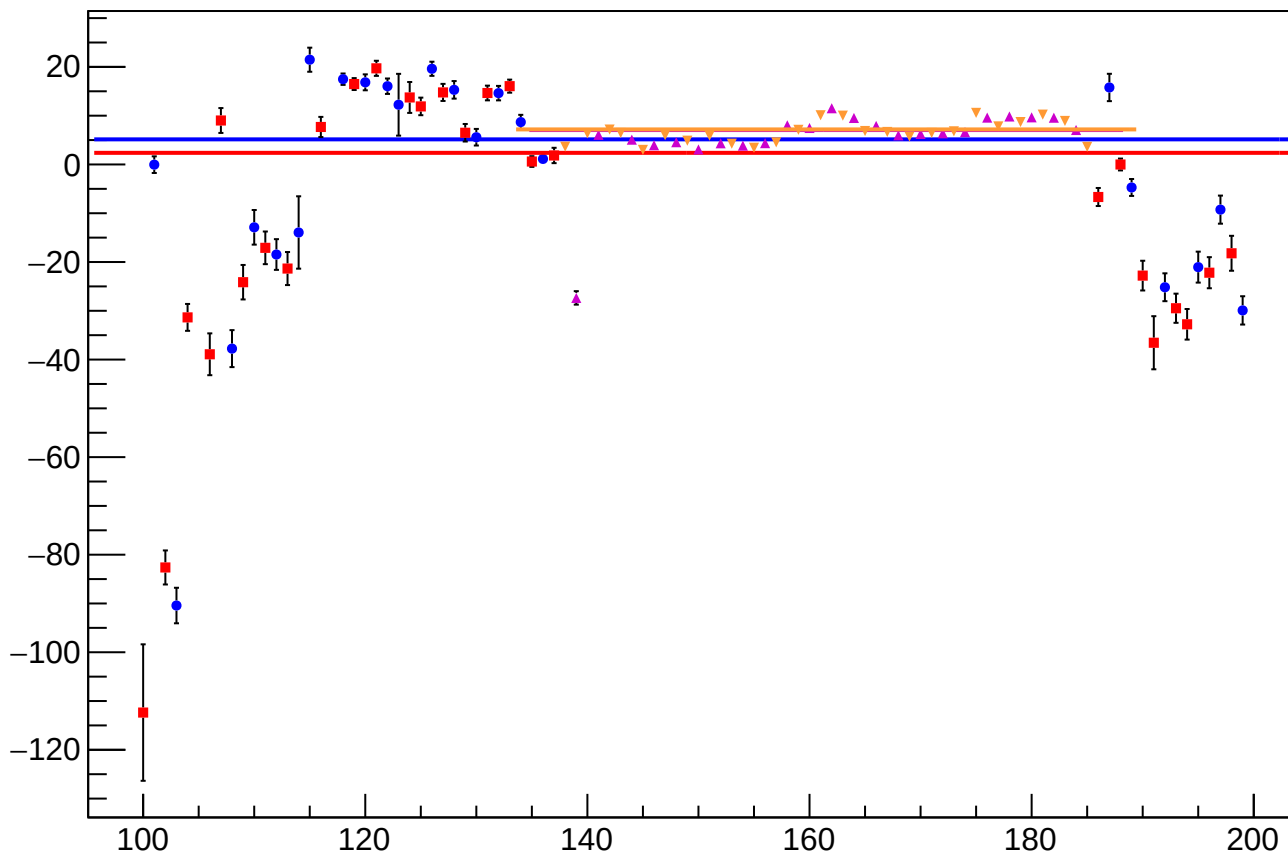
reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.541 ± 0.885 $\chi^2/\text{NDF}: 668.4/5$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: 4.707 ± 0.643 $\chi^2/\text{NDF}: 3250.7/7$
 Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$
 Right: -3.671 ± 0.520 $\chi^2/\text{NDF}: 4409.9/13$
 In: -10.132 ± 0.089 $\chi^2/\text{NDF}: 2541.1/28$
 Out: -10.114 ± 0.087 $\chi^2/\text{NDF}: 5903.0/32$
 All: -10.123 ± 0.062 $\chi^2/\text{NDF}: 8444.1/61$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.145 ± 0.379 χ^2/NDF : 1772.3/22

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: 2.381 ± 0.384 χ^2/NDF : 2062.4/26

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

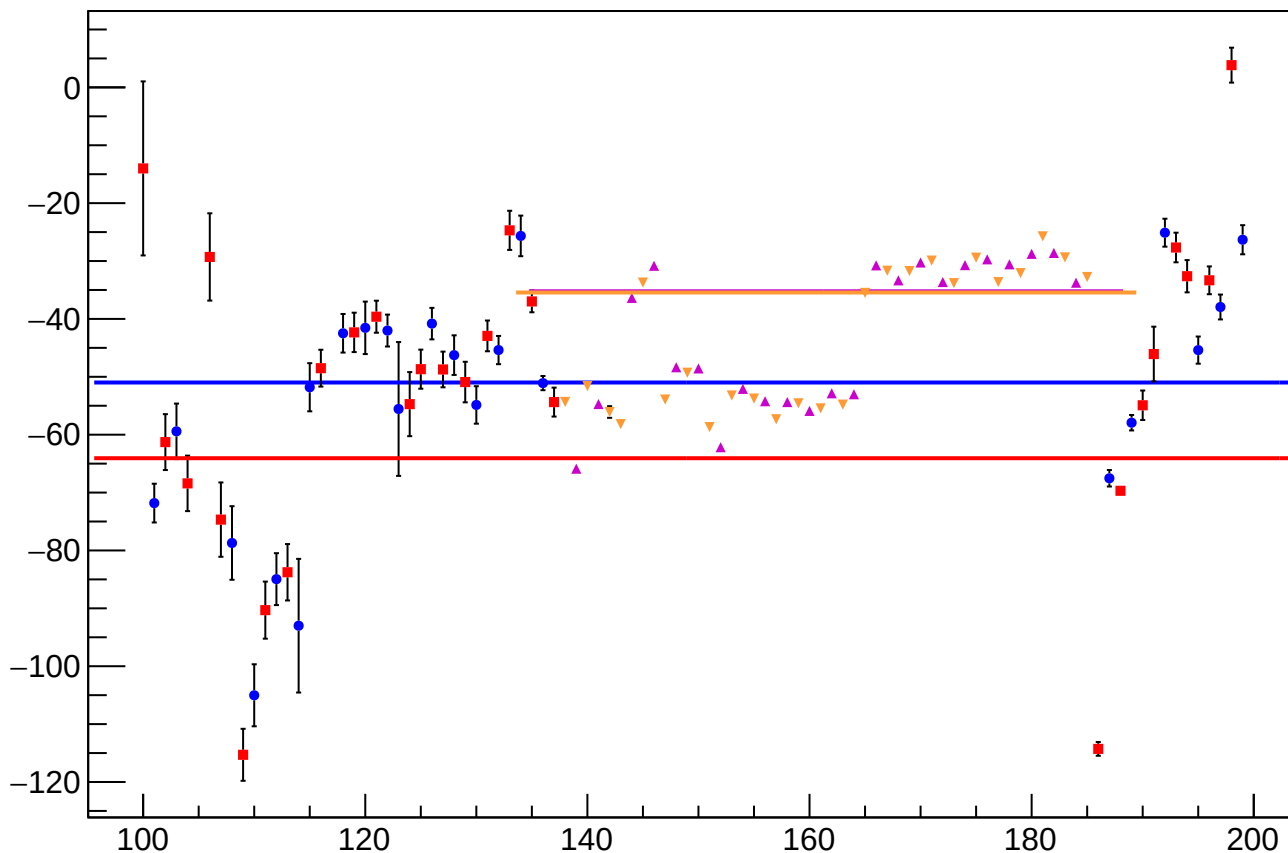
Right: 3.780 ± 0.270 χ^2/NDF : 3861.0/49

In: 6.982 ± 0.073 χ^2/NDF : 3332.6/45

Out: 7.014 ± 0.072 χ^2/NDF : 3130.8/51

All: 6.999 ± 0.051 χ^2/NDF : 6463.4/97

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: -64.064 ± 0.442 χ^2/NDF : 3718.8/26

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

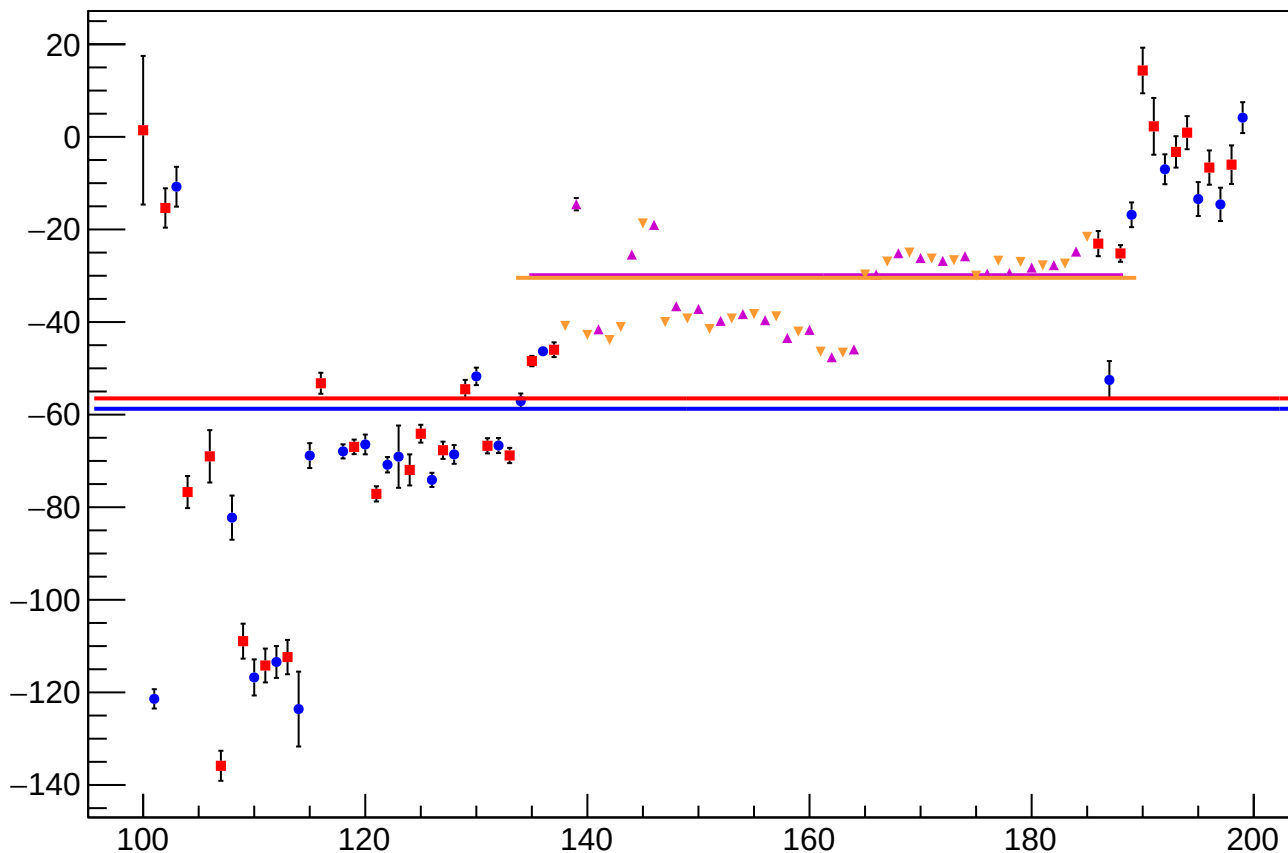
Right: -58.665 ± 0.339 χ^2/NDF : 4825.5/49

In: -35.676 ± 0.089 χ^2/NDF : 13216.3/45

Out: -36.550 ± 0.087 χ^2/NDF : 20534.5/51

All: -36.121 ± 0.062 χ^2/NDF : 33800.1/97

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: -56.495 ± 0.444 $\chi^2/\text{NDF}: 3465.6/26$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

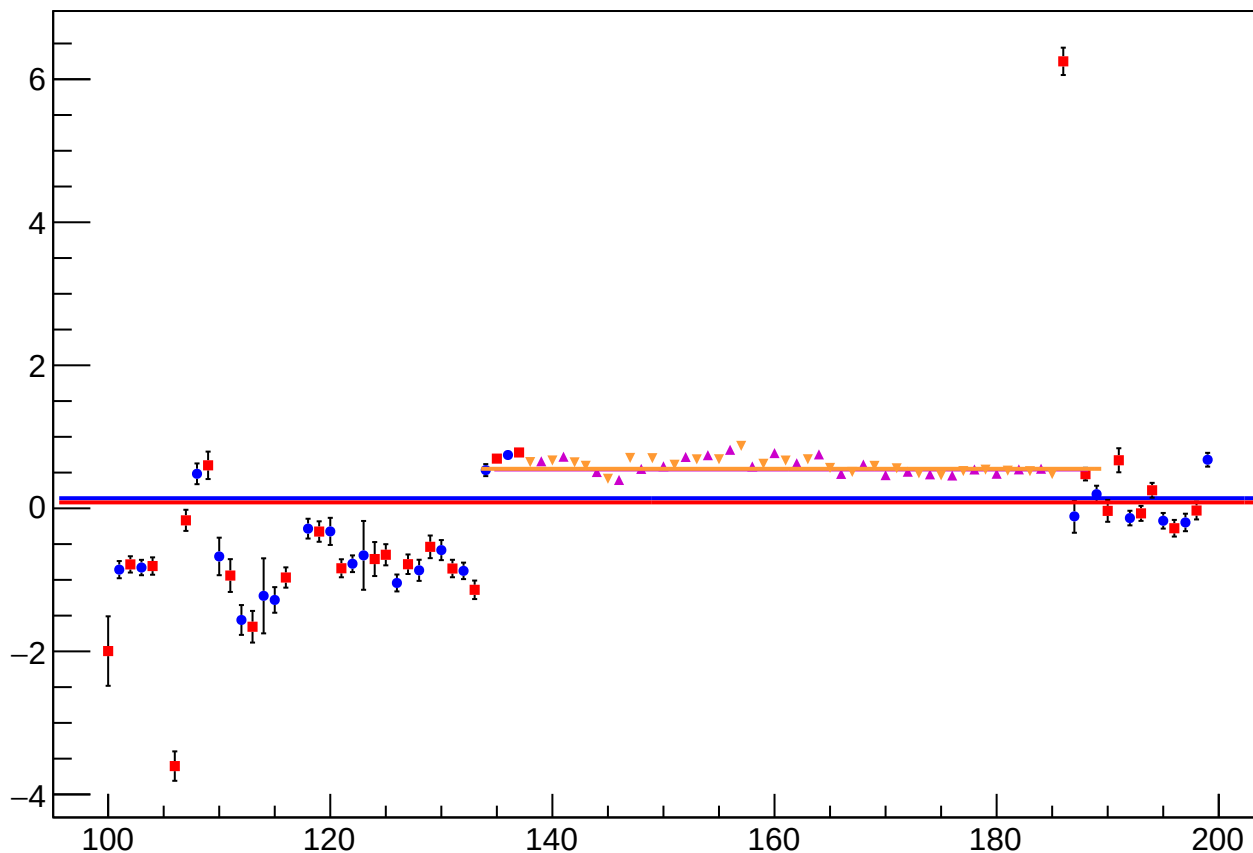
Right: -57.658 ± 0.308 $\chi^2/\text{NDF}: 6761.0/49$

In: -30.933 ± 0.081 $\chi^2/\text{NDF}: 14801.0/45$

Out: -31.299 ± 0.080 $\chi^2/\text{NDF}: 14966.6/51$

All: -31.118 ± 0.057 $\chi^2/\text{NDF}: 29777.8/97$

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: 0.083 $\pm$ 0.022 χ^2 /NDF: 2277.9/26

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

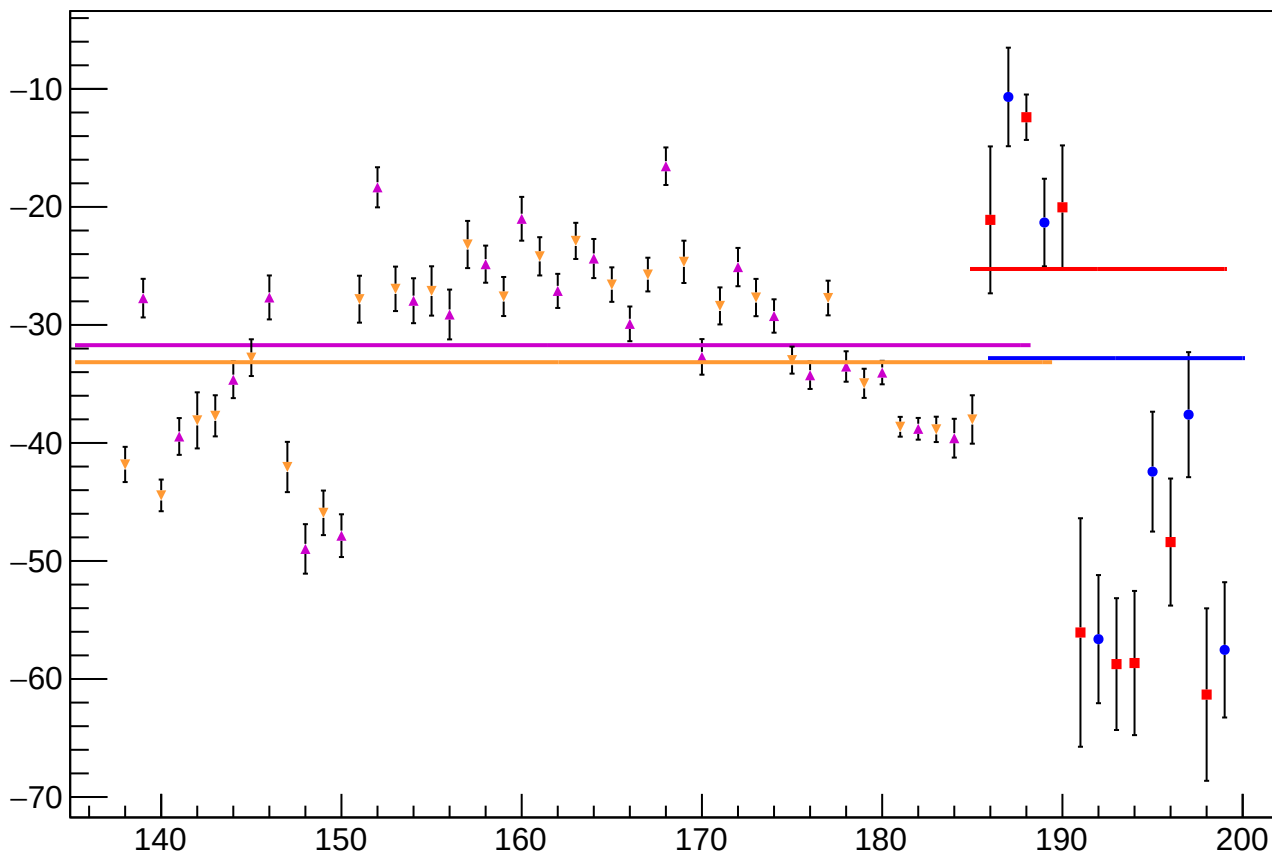
Right: 0.114 $\pm$ 0.015 χ^2 /NDF: 3325.0/49

In: 0.532 $\pm$ 0.004 χ^2 /NDF:2040.1/45

Out: 0.540 $\pm$ 0.004 χ^2 /NDF:3249.4/51

All: 0.536 $\pm$ 0.003 χ^2 /NDF: 5292.3/97

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: -25.259 ± 1.482 χ^2/NDF : 164.9/7
 Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47
 Right: -28.064 ± 1.175 χ^2/NDF : 254.4/13
 In: -31.742 ± 0.305 χ^2/NDF : 622.5/28
 Out: -32.846 ± 0.294 χ^2/NDF : 692.3/32
 All: -32.314 ± 0.212 χ^2/NDF : 1321.5/61

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -52.158 ± 0.694 χ^2/NDF : 1963.2/22

Left Out: -34.287 ± 0.241 χ^2/NDF : 695.3/24

Right Out: -54.644 ± 0.707 χ^2/NDF : 2500.0/26

Left In: -34.145 ± 0.251 χ^2/NDF : 1452.6/22

Left: -34.219 ± 0.174 χ^2/NDF : 2148.1/47

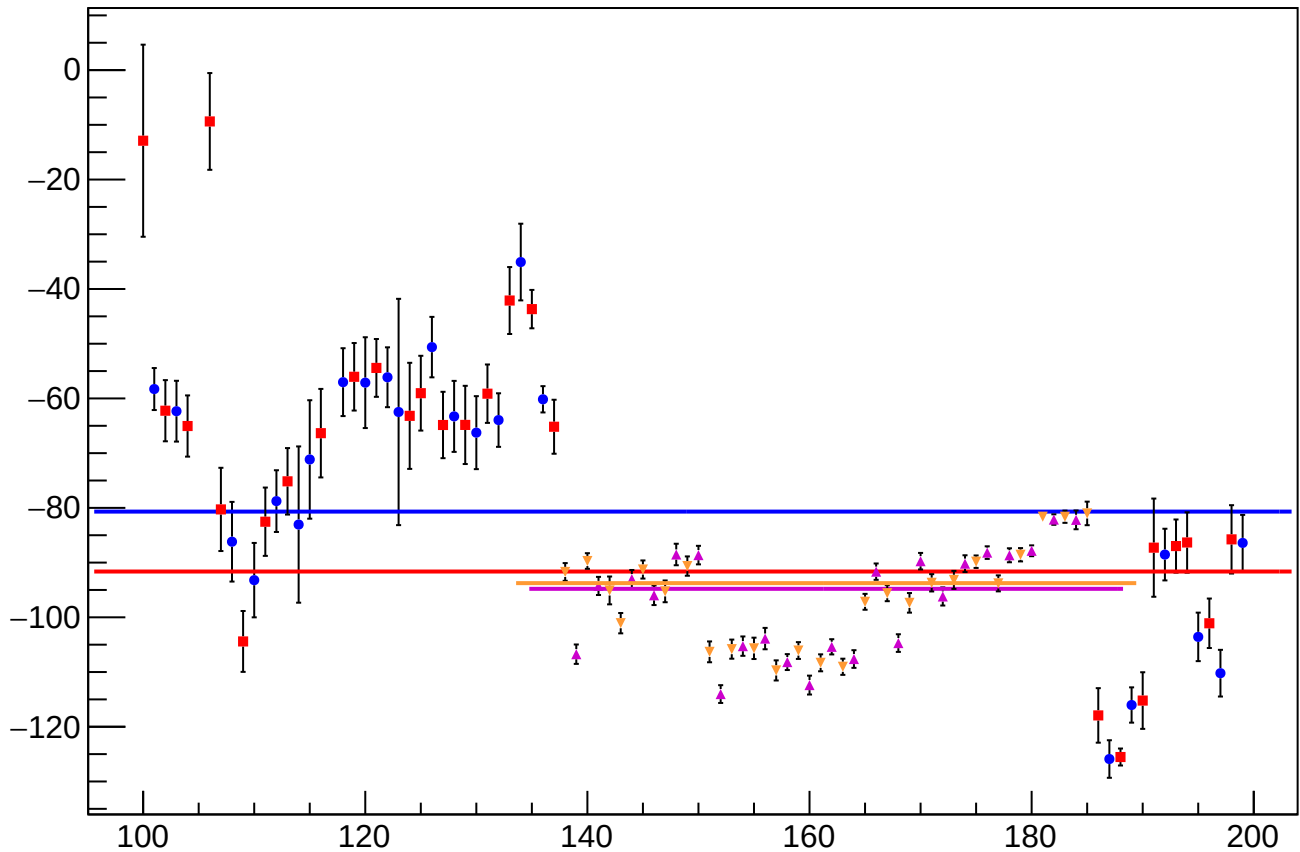
Right: -53.378 ± 0.496 χ^2/NDF : 4469.4/49

In: -36.224 ± 0.236 χ^2/NDF : 4011.1/45

Out: -36.411 ± 0.229 χ^2/NDF : 3936.8/51

All: -36.320 ± 0.164 χ^2/NDF : 7948.3/97

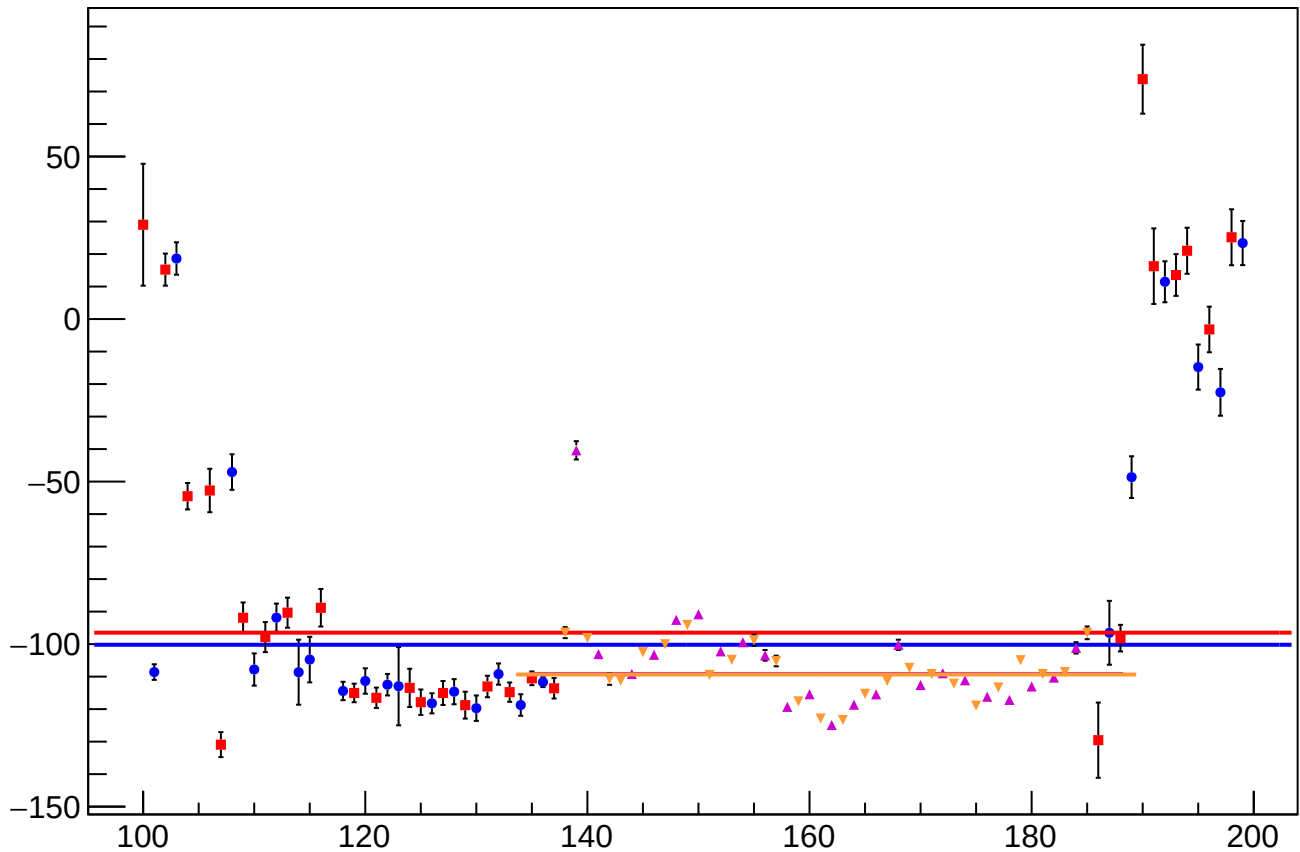
reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -80.680 ± 1.028 $\chi^2/\text{NDF}: 634.3/22$
 Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$
 Right Out: -91.631 ± 0.921 $\chi^2/\text{NDF}: 1183.5/26$
 Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$
 Right: -86.754 ± 0.686 $\chi^2/\text{NDF}: 1880.7/49$
 In: -93.630 ± 0.295 $\chi^2/\text{NDF}: 1782.0/45$
 Out: -93.548 ± 0.287 $\chi^2/\text{NDF}: 2071.3/51$
 All: -93.588 ± 0.206 $\chi^2/\text{NDF}: 3853.4/97$

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: -96.480 ± 0.815 χ^2/NDF : 2407.8/26

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

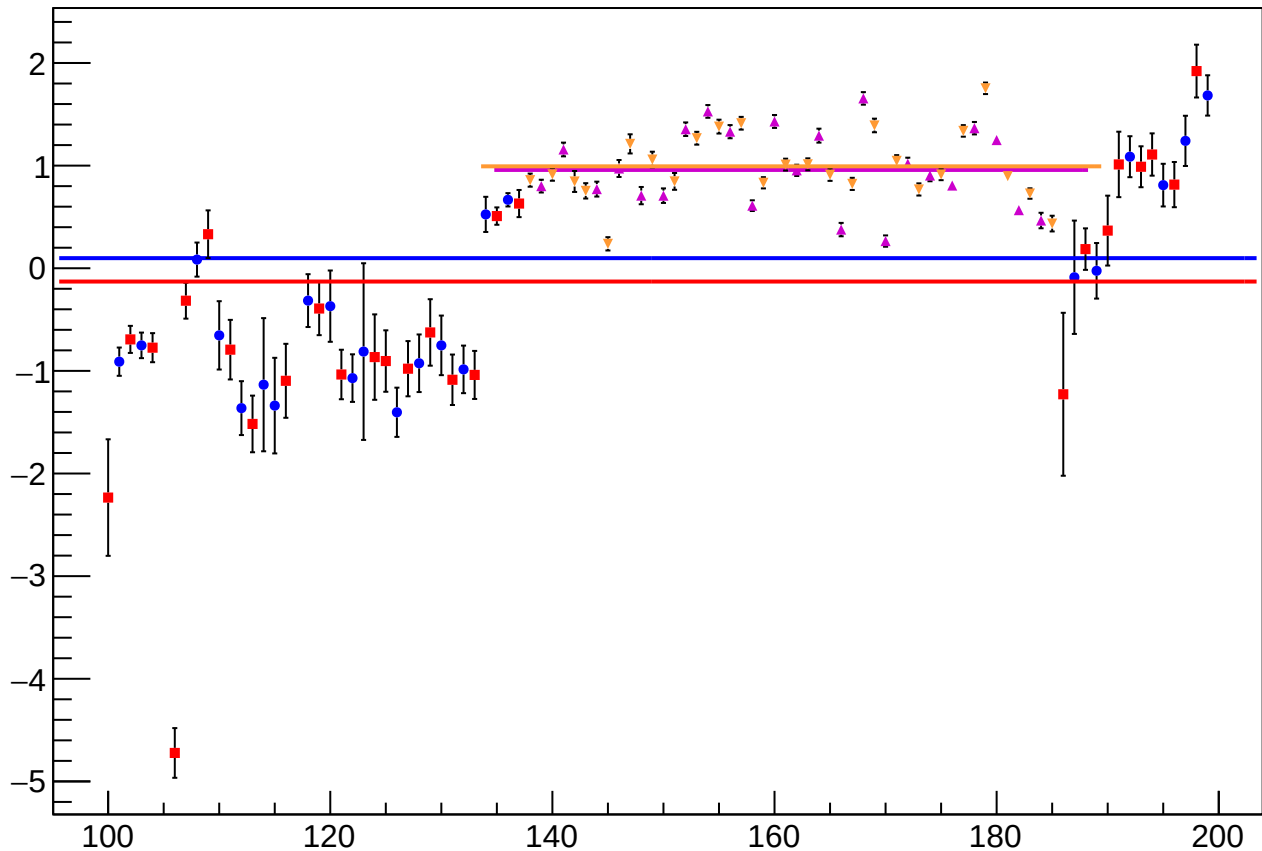
Right: -98.407 ± 0.566 χ^2/NDF : 4289.2/49

In: -108.175 ± 0.264 χ^2/NDF : 3487.3/45

Out: -108.068 ± 0.257 χ^2/NDF : 3459.1/51

All: -108.120 ± 0.184 χ^2/NDF : 6946.6/97

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: -0.130 ± 0.039 χ^2/NDF : 781.3/26

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

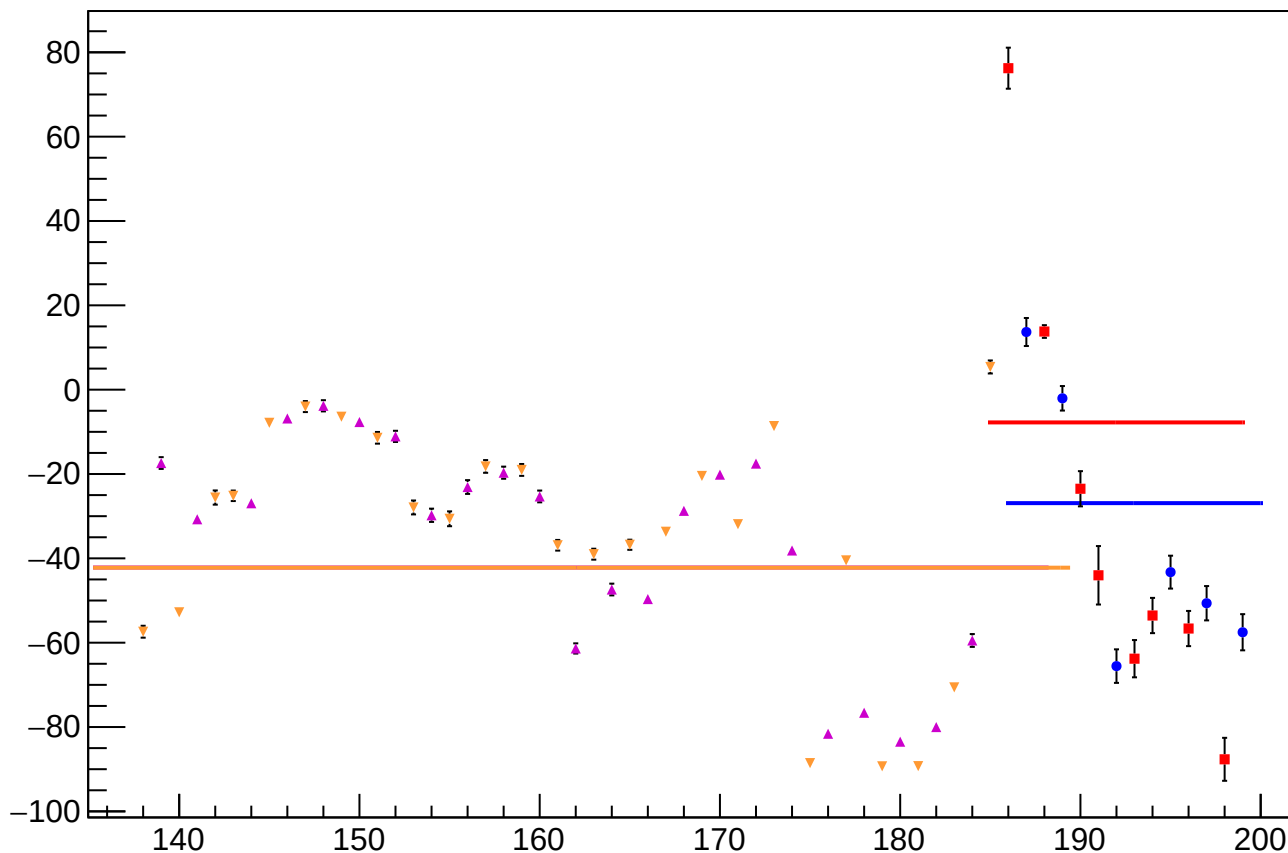
Right: -0.014 ± 0.028 χ^2/NDF : 1267.9/49

In: 0.875 ± 0.012 χ^2/NDF : 1809.1/45

Out: 0.892 ± 0.012 χ^2/NDF : 2158.5/51

All: 0.883 ± 0.008 χ^2/NDF : 3968.6/97

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected

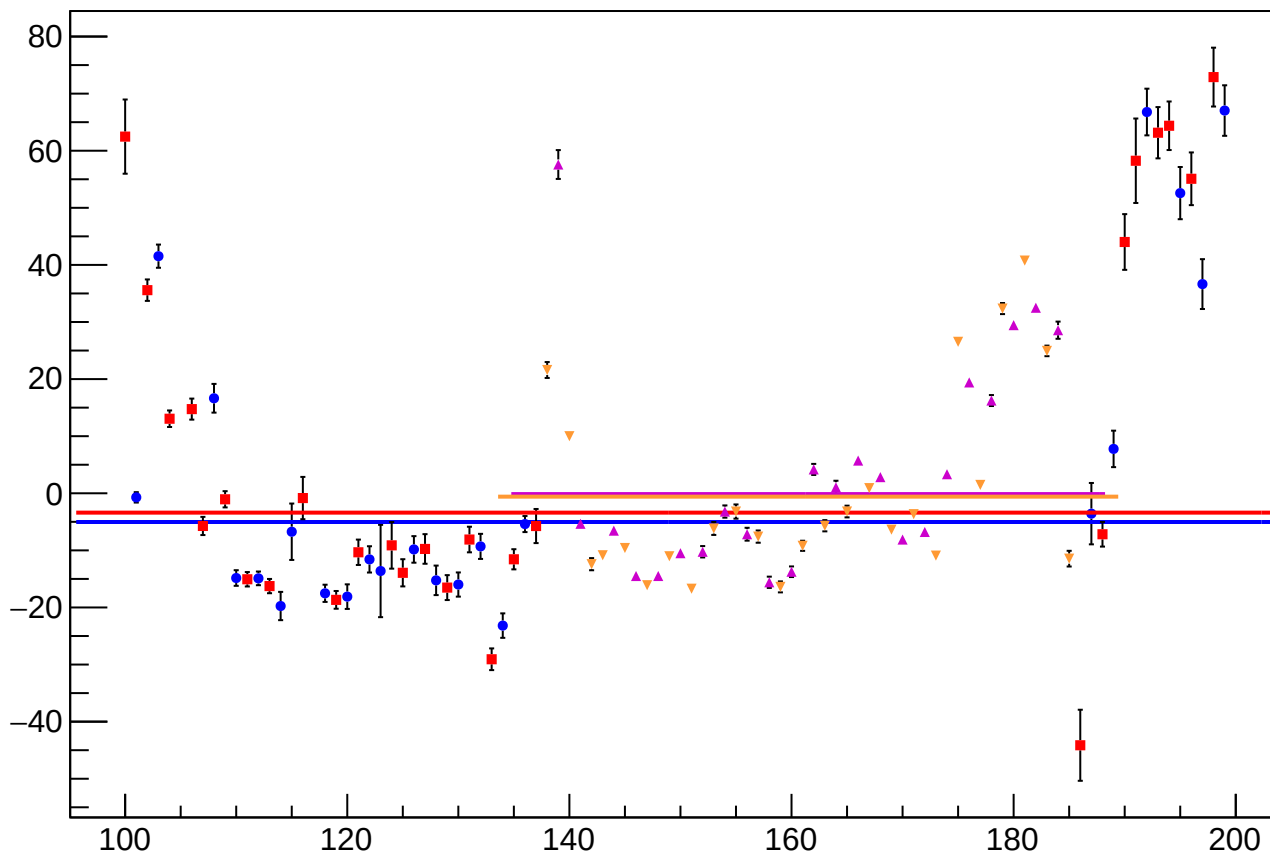


Right In: -26.905 ± 1.487 $\chi^2/\text{NDF}: 419.2/5$
 Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$
 Right Out: -7.765 ± 1.144 $\chi^2/\text{NDF}: 1207.5/7$
 Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$
 Right: -14.881 ± 0.906 $\chi^2/\text{NDF}: 1730.8/13$
 In: -41.828 ± 0.224 $\chi^2/\text{NDF}: 15098.2/28$
 Out: -40.962 ± 0.218 $\chi^2/\text{NDF}: 20391.1/32$

All: -41.382 ± 0.156 $\chi^2/\text{NDF}: 35496.9/61$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected

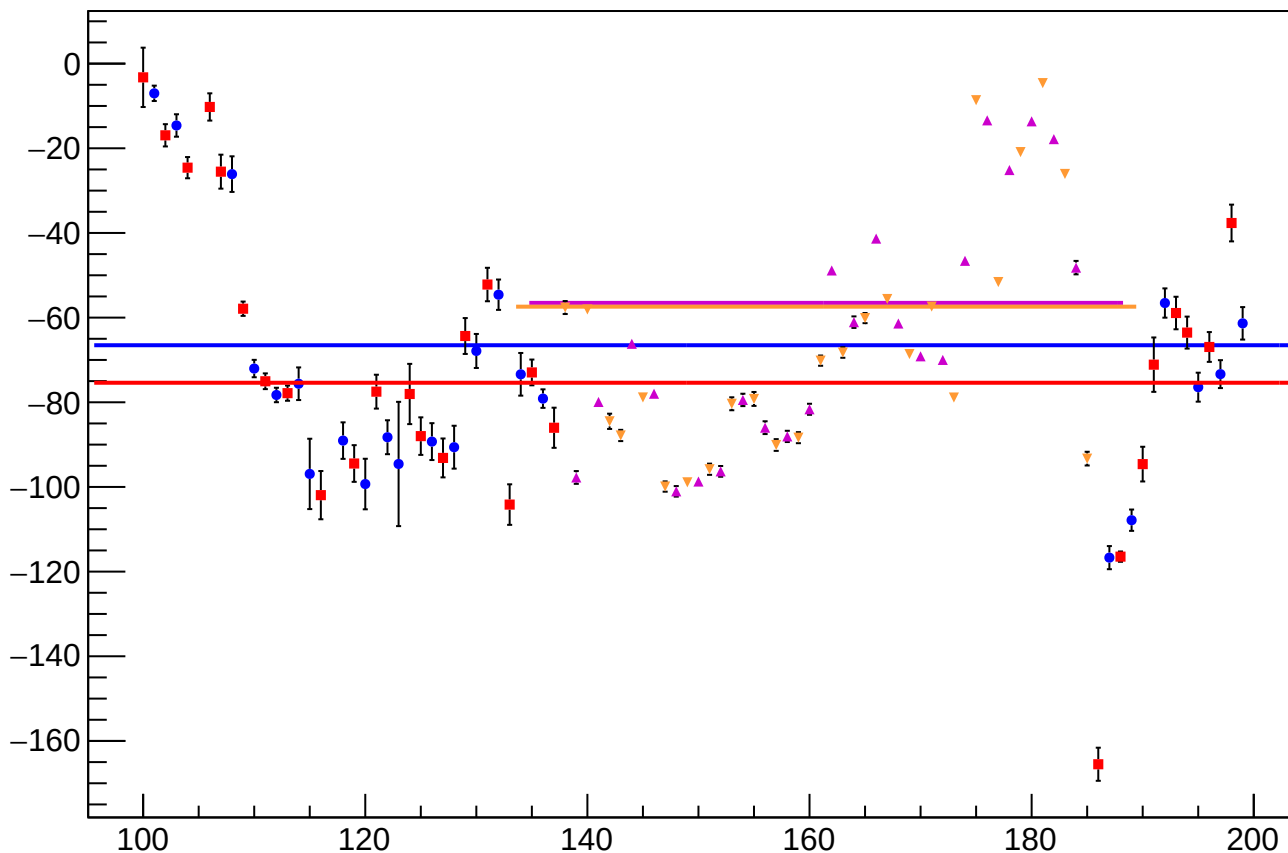


Right In: -5.030 ± 0.418 $\chi^2/\text{NDF}: 1853.0/22$
 Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$
 Right Out: -3.389 ± 0.411 $\chi^2/\text{NDF}: 2397.0/26$
 Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$
 Right: -4.197 ± 0.293 $\chi^2/\text{NDF}: 4257.9/49$
 In: -0.901 ± 0.165 $\chi^2/\text{NDF}: 8831.2/45$
 Out: -1.016 ± 0.160 $\chi^2/\text{NDF}: 11187.2/51$

All: -0.960 ± 0.115 $\chi^2/\text{NDF}: 20018.7/97$

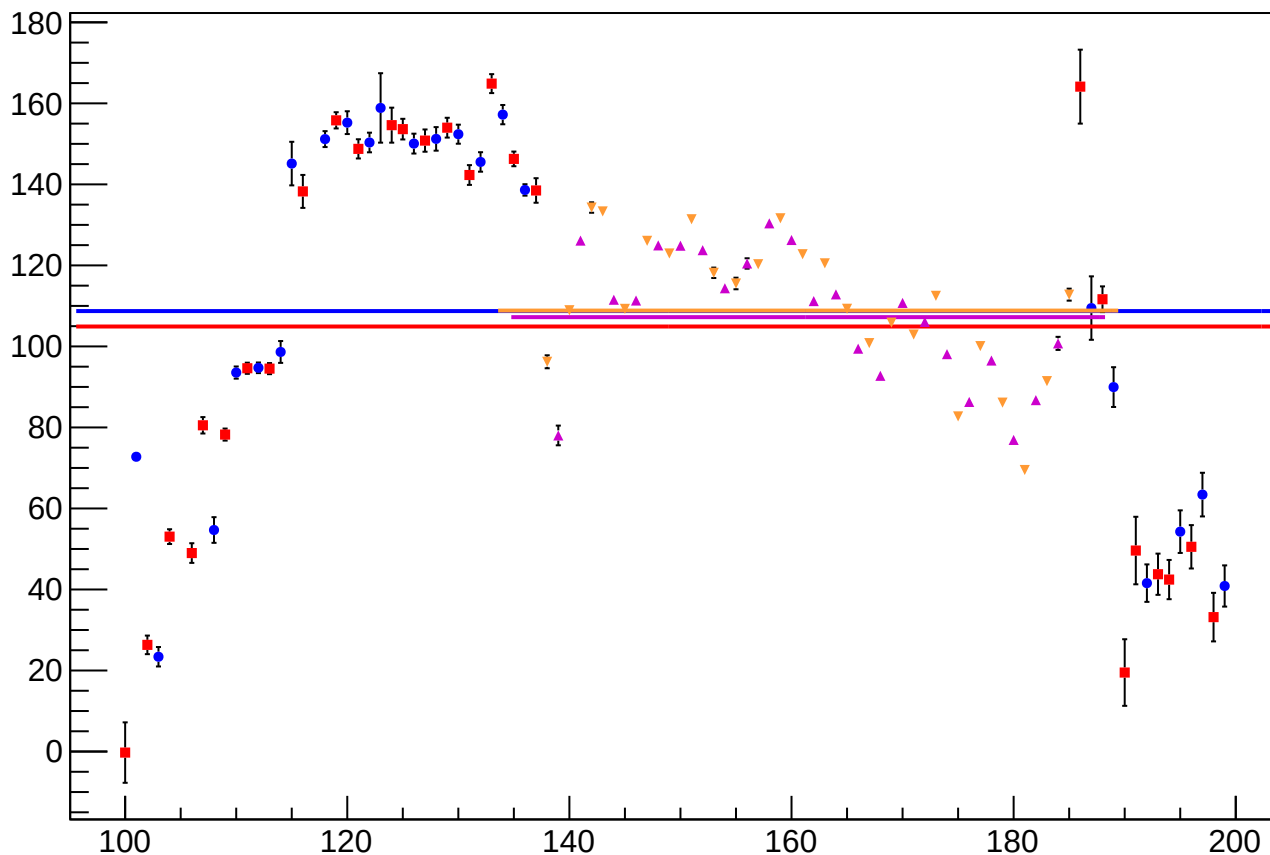
reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.524 ± 0.644 $\chi^2/\text{NDF}: 2438.9/22$
 Left Out: -57.413 ± 0.223 $\chi^2/\text{NDF}: 18604.1/24$
 Right Out: -75.387 ± 0.567 $\chi^2/\text{NDF}: 3631.9/26$
 Left In: -56.519 ± 0.227 $\chi^2/\text{NDF}: 16352.6/22$

Left: -56.974 ± 0.159 $\chi^2/\text{NDF}: 34964.5/47$
 Right: -71.513 ± 0.426 $\chi^2/\text{NDF}: 6177.5/49$
 In: -57.625 ± 0.214 $\chi^2/\text{NDF}: 19006.2/45$
 Out: -59.822 ± 0.208 $\chi^2/\text{NDF}: 23105.2/51$
 All: -58.757 ± 0.149 $\chi^2/\text{NDF}: 42165.6/97$

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: 104.914 $\pm$ 0.472 χ^2 /NDF: 7820.6/26

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

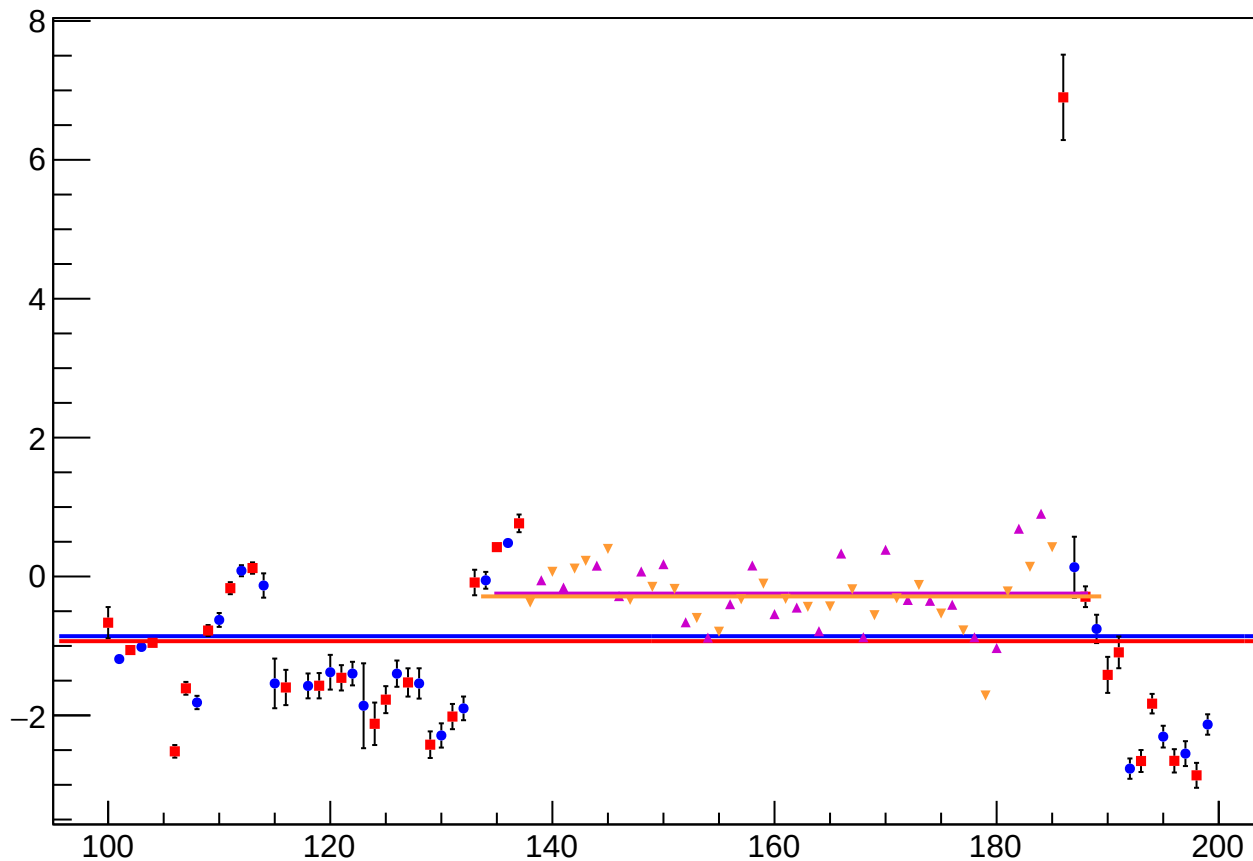
Right: 106.798 $\pm$ 0.336 χ^2 /NDF: 14322.0/49

In: 107.453 $\pm$ 0.186 χ^2 /NDF: 12042.8/45

Out: 108.262 $\pm$ 0.182 χ^2 /NDF: 15279.8/51

All: 107.867 $\pm$ 0.130 χ^2 /NDF: 27332.3/97

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: -0.932 ± 0.023 χ^2/NDF : 1891.3/26

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

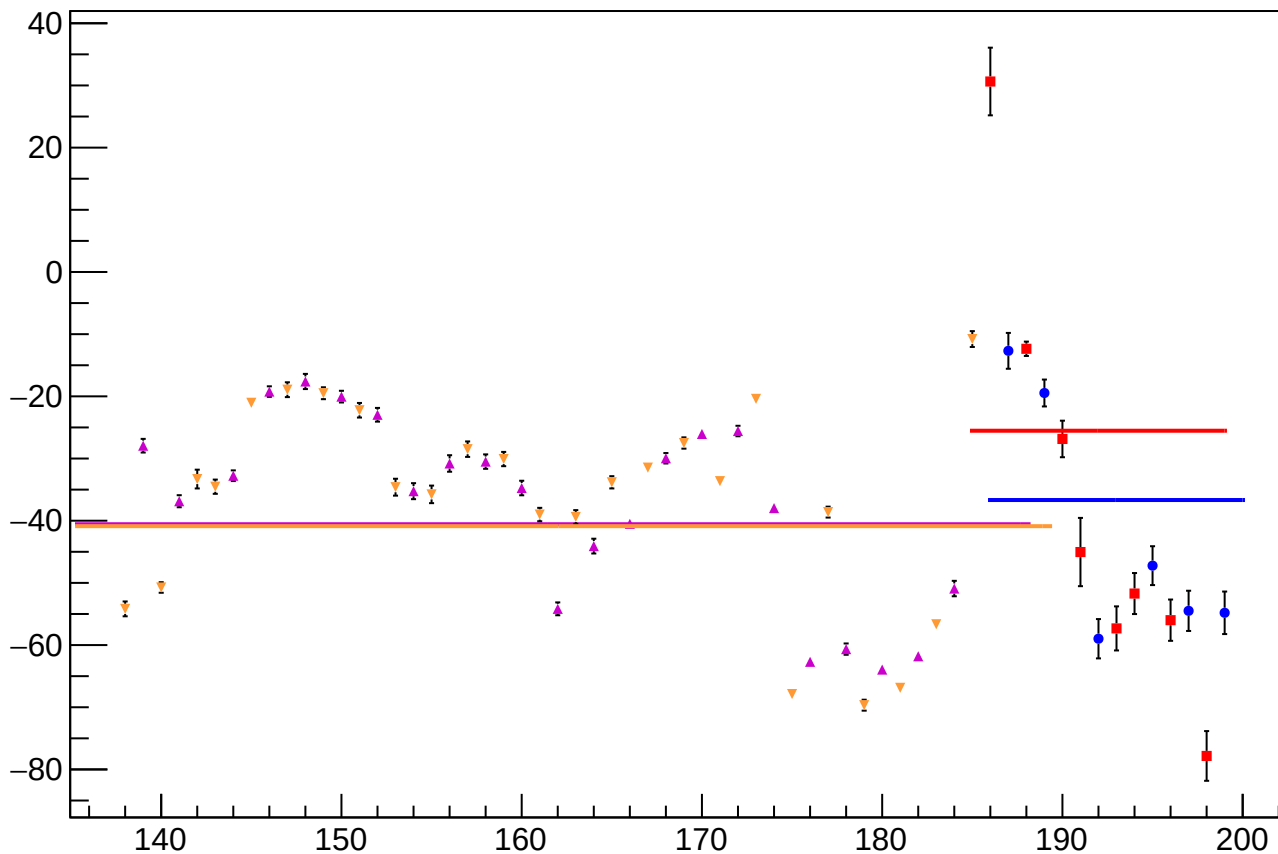
Right: -0.898 ± 0.017 χ^2/NDF : 3351.7/49

In: -0.324 ± 0.009 χ^2/NDF : 4803.6/45

Out: -0.375 ± 0.008 χ^2/NDF : 4633.6/51

All: -0.350 ± 0.006 χ^2/NDF : 9454.8/97

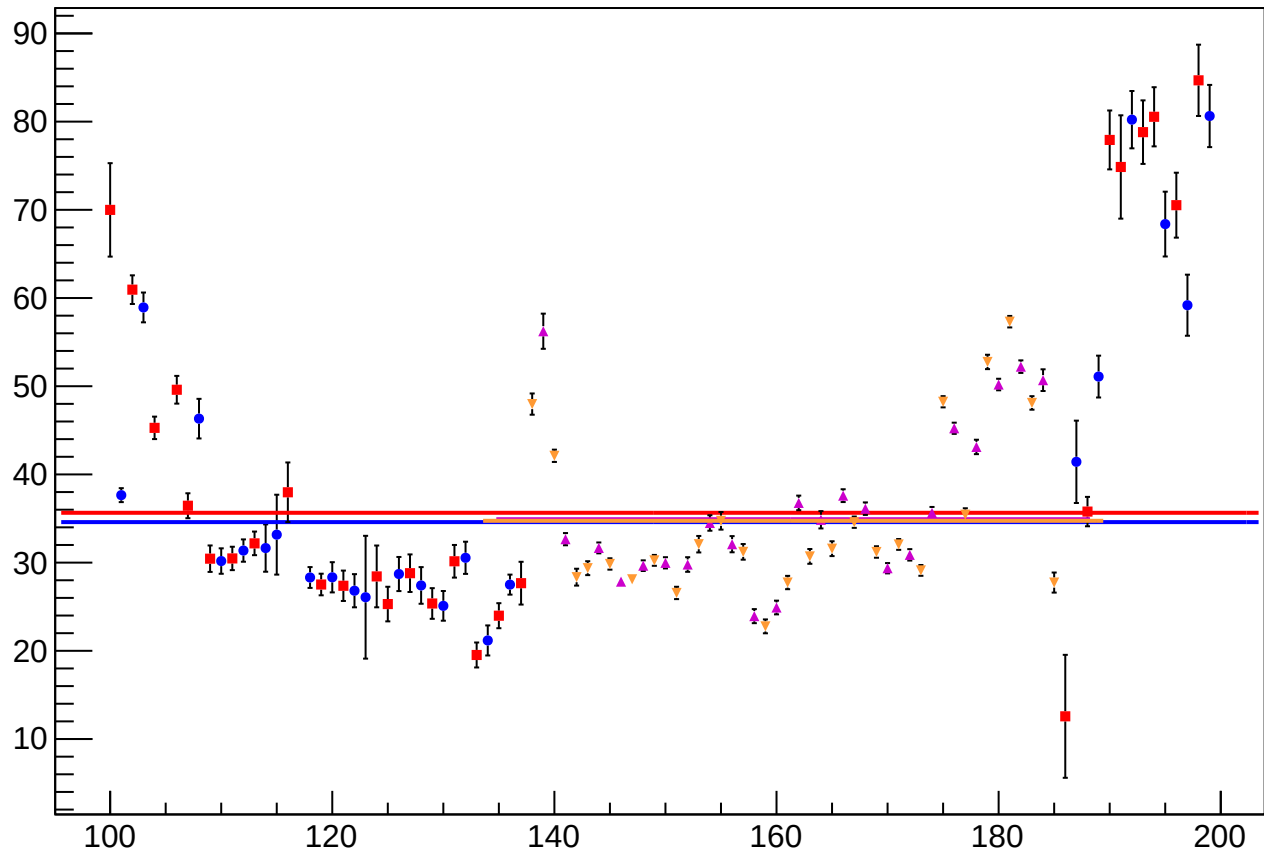
reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



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: -25.527 ± 0.892 χ^2/NDF : 648.3/7
 Left In: -40.567 ± 0.190 χ^2/NDF : 6954.7/22

Left: -40.726 ± 0.133 χ^2/NDF : 16079.4/47
 Right: -29.578 ± 0.712 χ^2/NDF : 957.4/13
 In: -40.469 ± 0.187 χ^2/NDF : 7217.6/28
 Out: -40.239 ± 0.182 χ^2/NDF : 10055.5/32
 All: -40.351 ± 0.131 χ^2/NDF : 17273.9/61

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 34.593 $\pm$ 0.362 χ^2 /NDF: 1039.0/22

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF:3693.2/24

Right Out: 35.650 $\pm$ 0.359 χ^2 /NDF: 1592.5/26

Left In: 34.922 $\pm$ 0.152 χ^2 /NDF:2672.9/22

Left: 34.829 $\pm$ 0.106 χ^2 /NDF: 6366.8/47

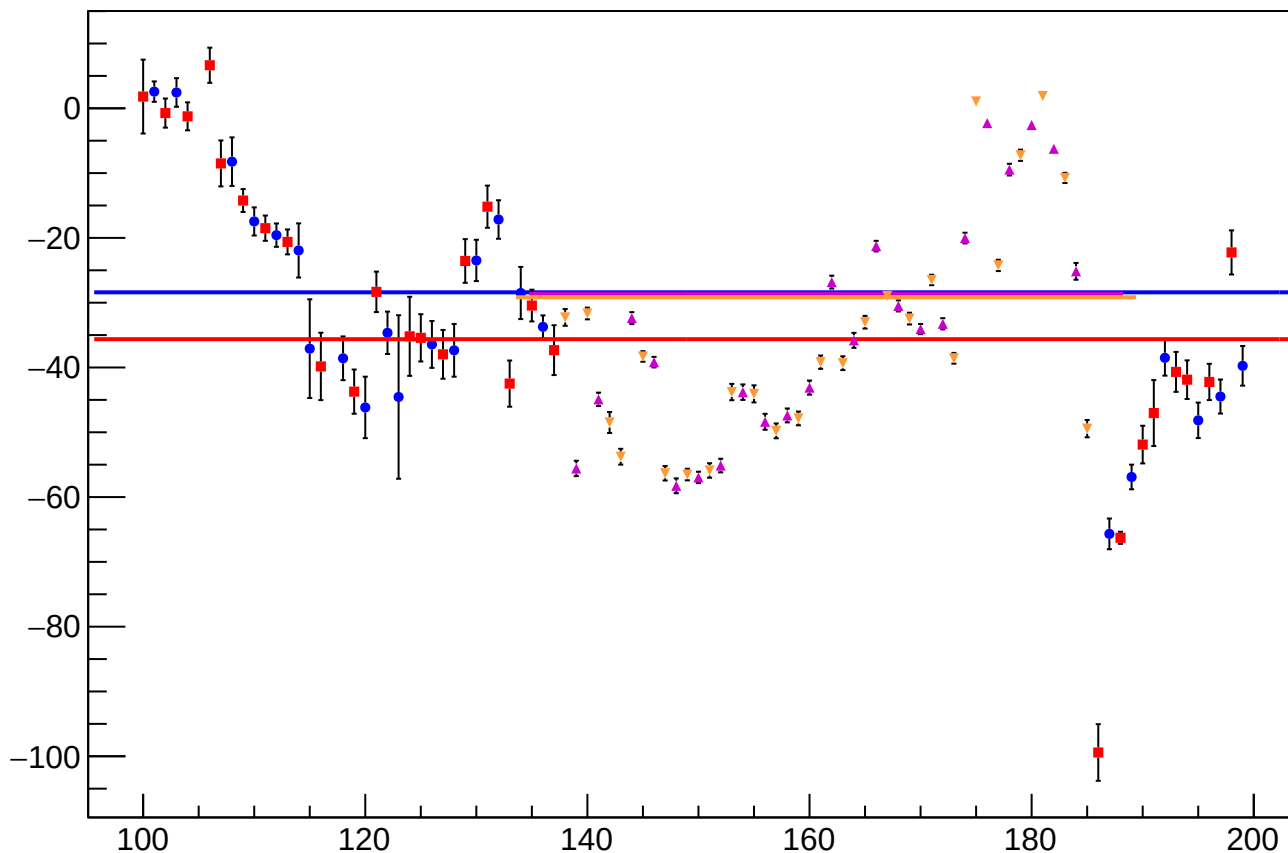
Right: 35.125 $\pm$ 0.255 χ^2 /NDF: 2635.8/49

In: 34.873 $\pm$ 0.140 χ^2 /NDF:3712.6/45

Out: 34.872 $\pm$ 0.136 χ^2 /NDF:5291.2/51

All: 34.872 $\pm$ 0.098 χ^2 /NDF: 9003.7/97

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -28.399 ± 0.558 χ^2/NDF : 1316.8/22

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -35.632 ± 0.488 χ^2/NDF : 2551.7/26

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

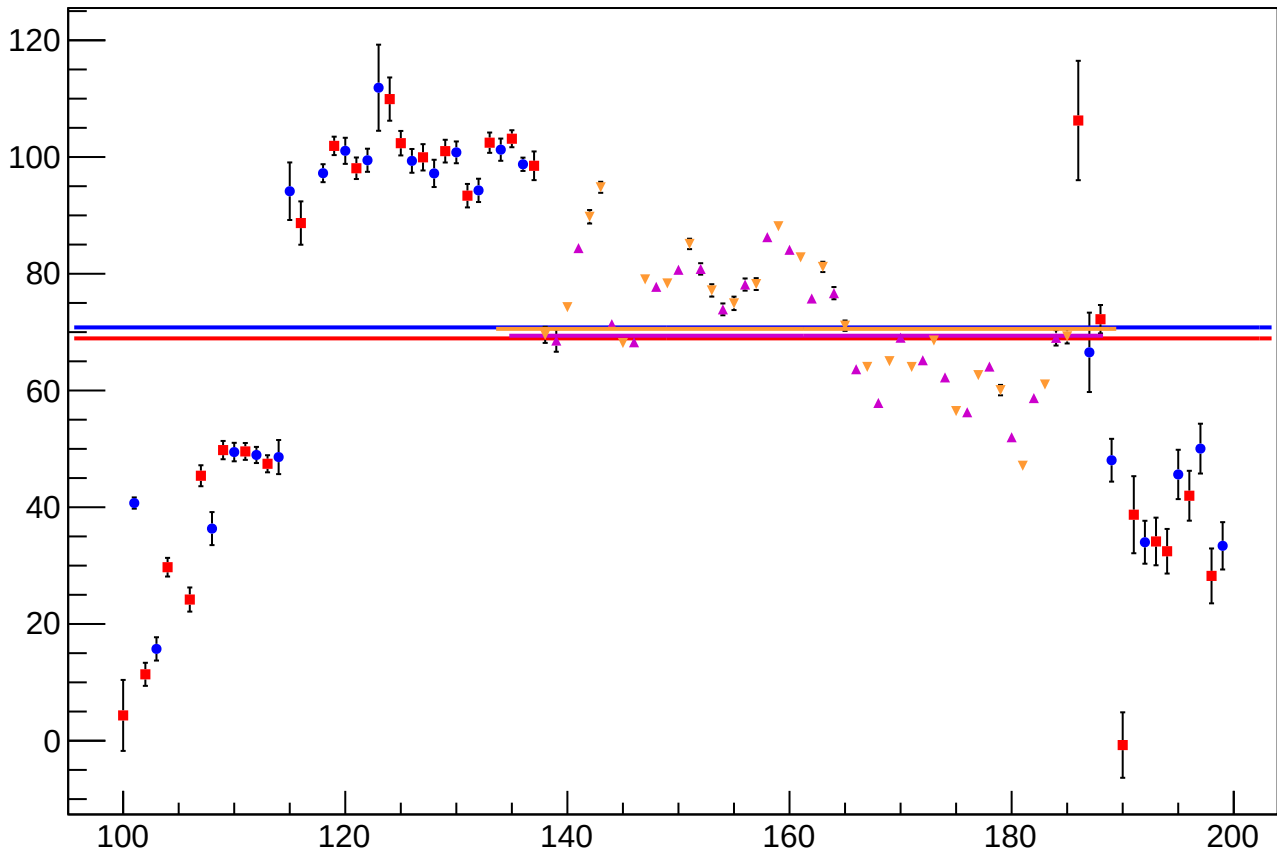
Right: -32.497 ± 0.368 χ^2/NDF : 3963.6/49

In: -28.594 ± 0.180 χ^2/NDF : 10357.9/45

Out: -29.991 ± 0.175 χ^2/NDF : 12830.8/51

All: -29.312 ± 0.125 χ^2/NDF : 23219.7/97

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: 68.927 $\pm$ 0.416 χ^2 /NDF: 5981.9/26

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

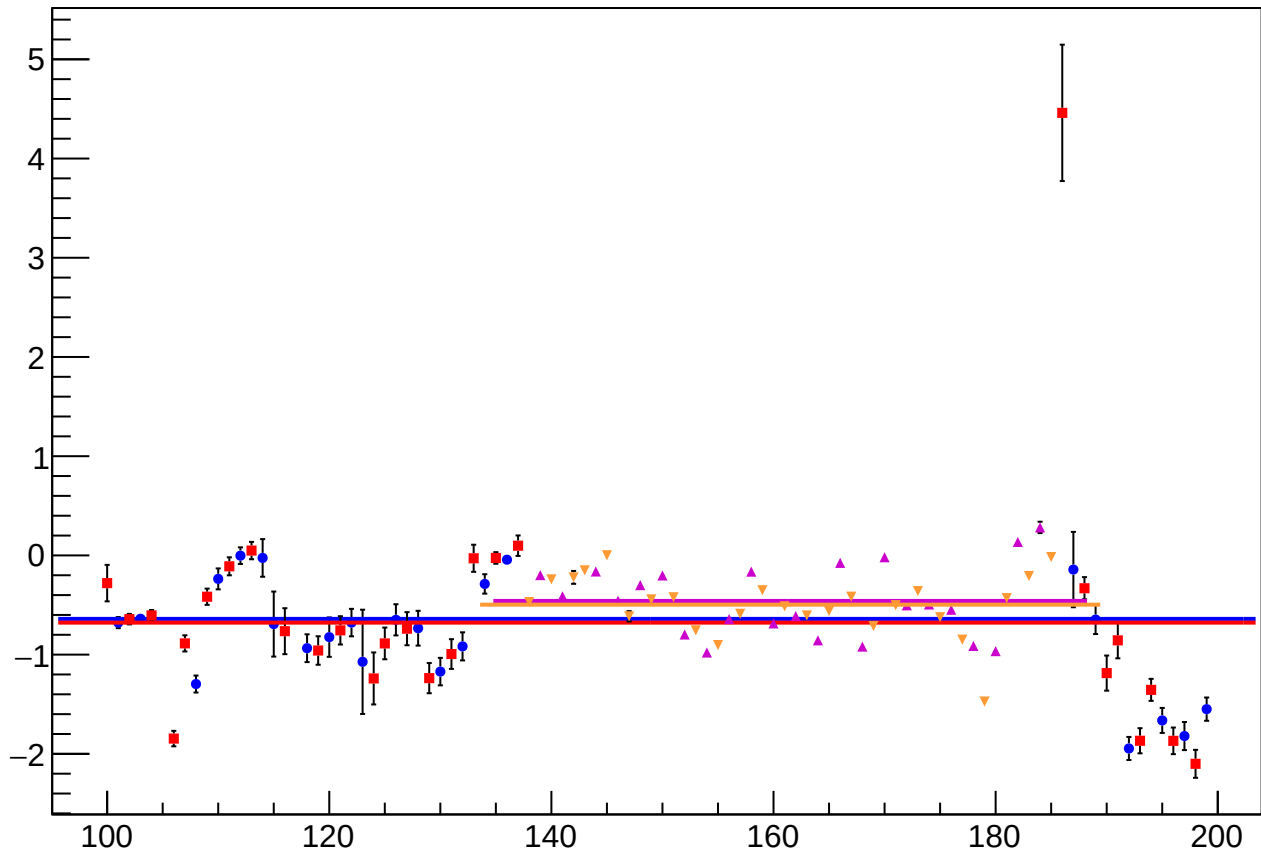
Right: 69.869 $\pm$ 0.294 χ^2 /NDF: 10963.8/49

In: 69.591 $\pm$ 0.158 χ^2 /NDF:8303.6/45

Out: 70.338 $\pm$ 0.154 χ^2 /NDF:10584.3/51

All: 69.972 $\pm$ 0.110 χ^2 /NDF: 18899.3/97

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: -0.677 ± 0.020 χ^2/NDF : 970.3/26

Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47

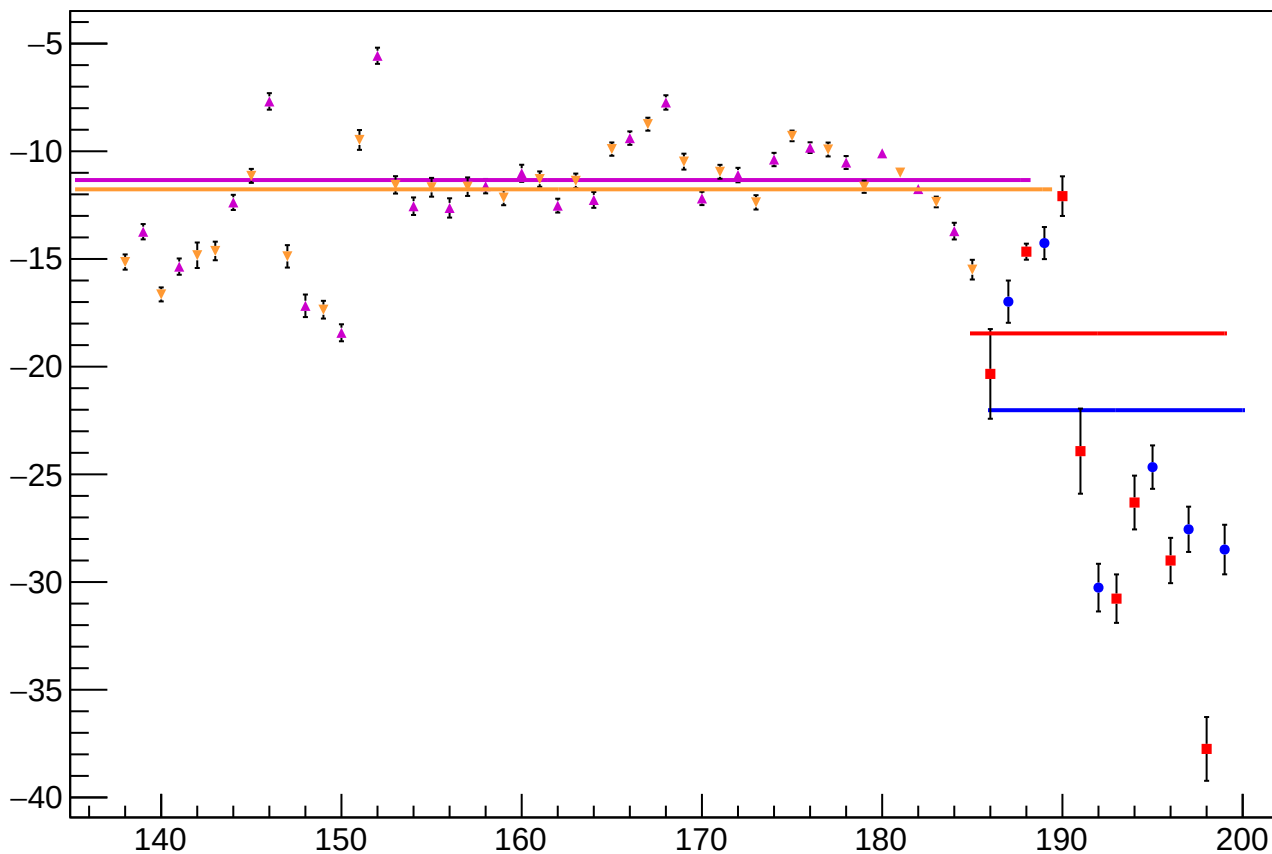
Right: -0.660 ± 0.014 χ^2/NDF : 1637.6/49

In: -0.481 ± 0.007 χ^2/NDF : 2690.7/45

Out: -0.520 ± 0.007 χ^2/NDF : 2492.6/51

All: -0.501 ± 0.005 χ^2/NDF : 5198.2/97

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: -18.457 ± 0.293 χ^2/NDF : 590.0/7
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47
 Right: -19.706 ± 0.236 χ^2/NDF : 898.4/13
 In: -11.639 ± 0.067 χ^2/NDF : 2224.8/28
 Out: -12.097 ± 0.065 χ^2/NDF : 2107.6/32

All: -11.875 ± 0.047 χ^2/NDF : 4356.4/61

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: -35.096 ± 0.140 $\chi^2/\text{NDF}: 2229.4/26$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

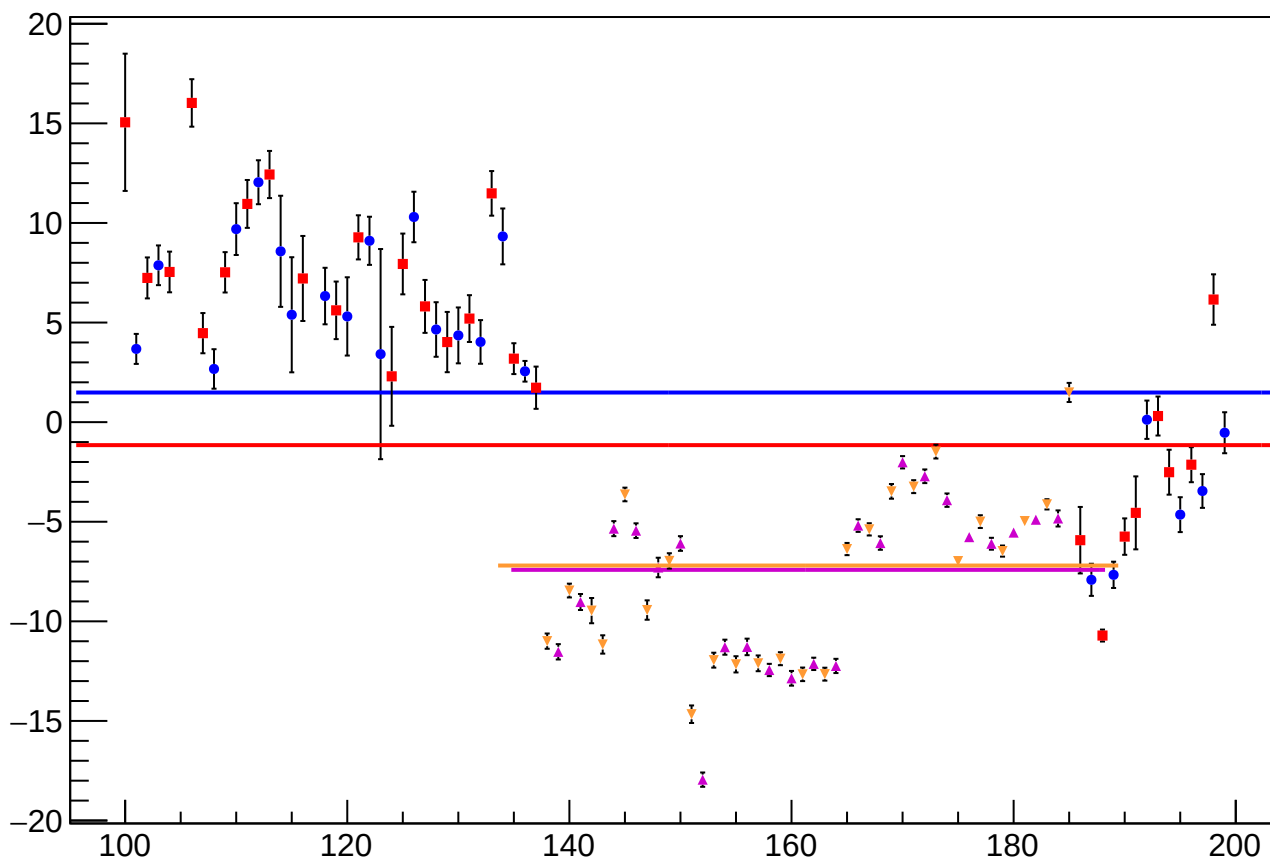
Right: -35.022 ± 0.100 $\chi^2/\text{NDF}: 4039.2/49$

In: -30.746 ± 0.052 $\chi^2/\text{NDF}: 4008.5/45$

Out: -30.843 ± 0.050 $\chi^2/\text{NDF}: 4025.7/51$

All: -30.796 ± 0.036 $\chi^2/\text{NDF}: 8036.0/97$

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: -1.154 ± 0.183 $\chi^2/\text{NDF}: 2193.2/26$
 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: -0.029 ± 0.138 $\chi^2/\text{NDF}: 3044.1/49$
 In: -6.589 ± 0.065 $\chi^2/\text{NDF}: 5481.5/45$
 Out: -6.485 ± 0.063 $\chi^2/\text{NDF}: 6195.2/51$
 All: -6.536 ± 0.045 $\chi^2/\text{NDF}: 11678.0/97$

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: -3.877 ± 0.163 χ^2/NDF : 2770.3/26

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

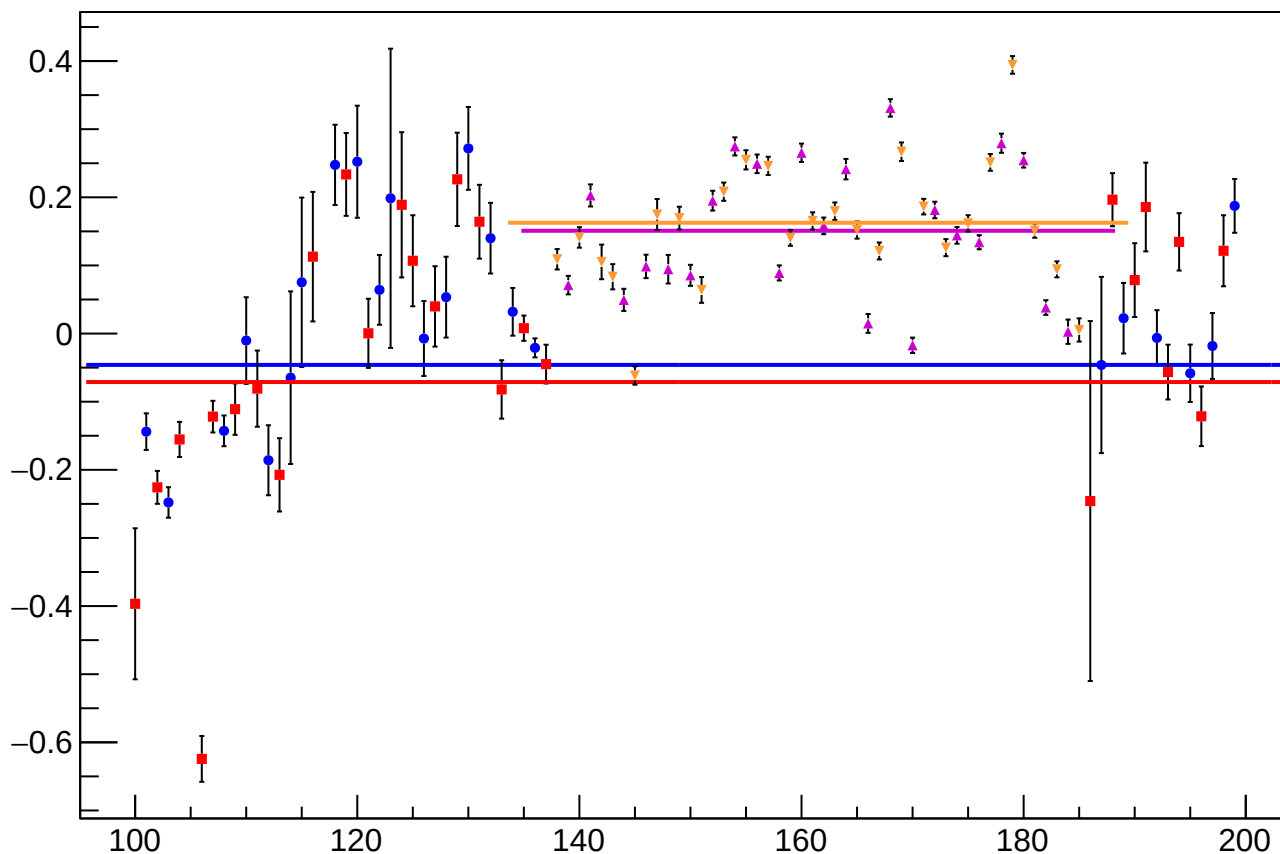
Right: -4.257 ± 0.116 χ^2/NDF : 5266.7/49

In: -8.374 ± 0.058 χ^2/NDF : 4609.8/45

Out: -8.362 ± 0.056 χ^2/NDF : 4503.8/51

All: -8.368 ± 0.040 χ^2/NDF : 9113.6/97

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: -0.071 ± 0.008 χ^2/NDF : 557.6/26

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

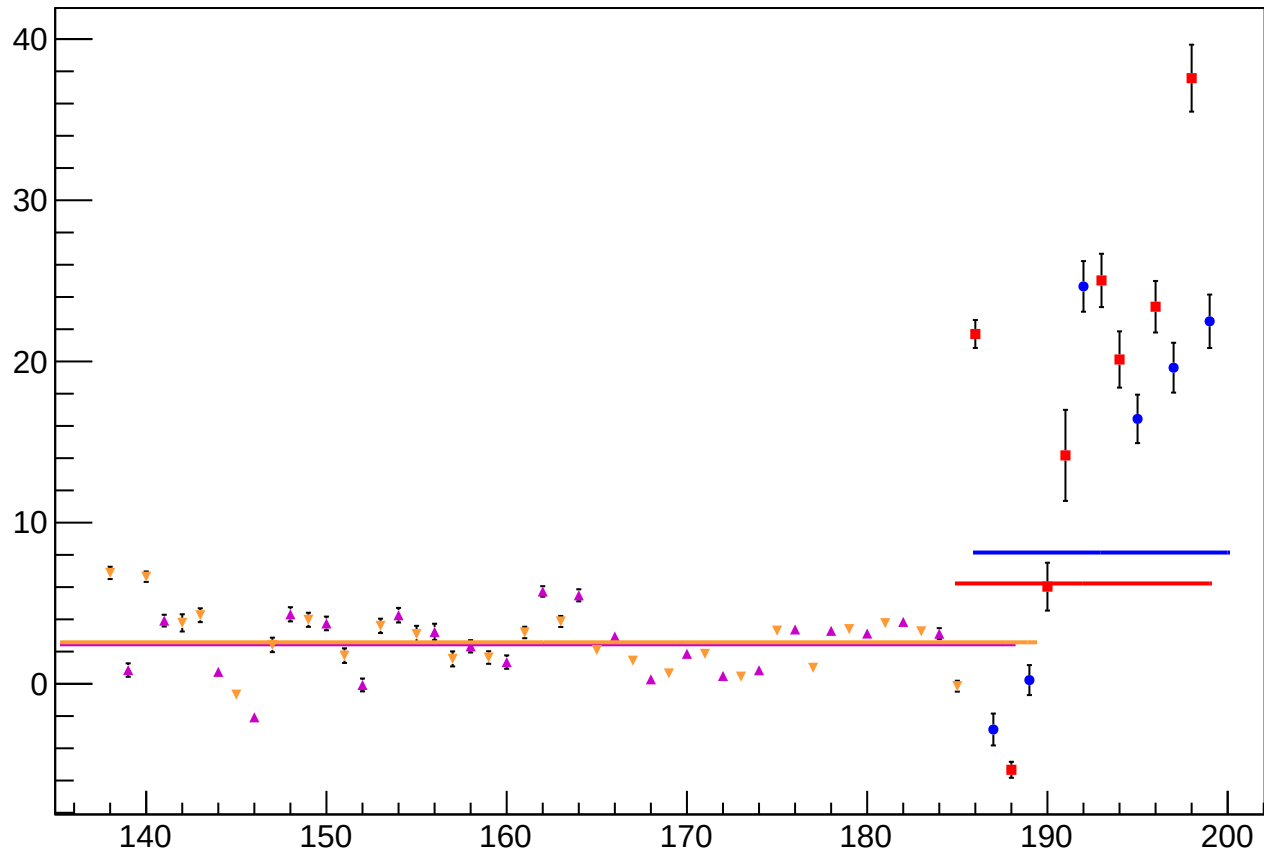
Right: -0.059 ± 0.005 χ^2/NDF : 818.6/49

In: 0.128 ± 0.003 χ^2/NDF : 2119.5/45

Out: 0.136 ± 0.003 χ^2/NDF : 2415.9/51

All: 0.132 ± 0.002 χ^2/NDF : 4539.6/97

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.145 $\pm$ 0.512 χ^2 /NDF: 466.7/5

Left Out: 2.577 $\pm$ 0.058 χ^2 /NDF:867.5/24

Right Out: 6.226 $\pm$ 0.370 χ^2 /NDF: 1405.0/7

Left In: 2.452 $\pm$ 0.059 χ^2 /NDF:871.3/22

Left: 2.516 $\pm$ 0.042 χ^2 /NDF: 1741.0/47

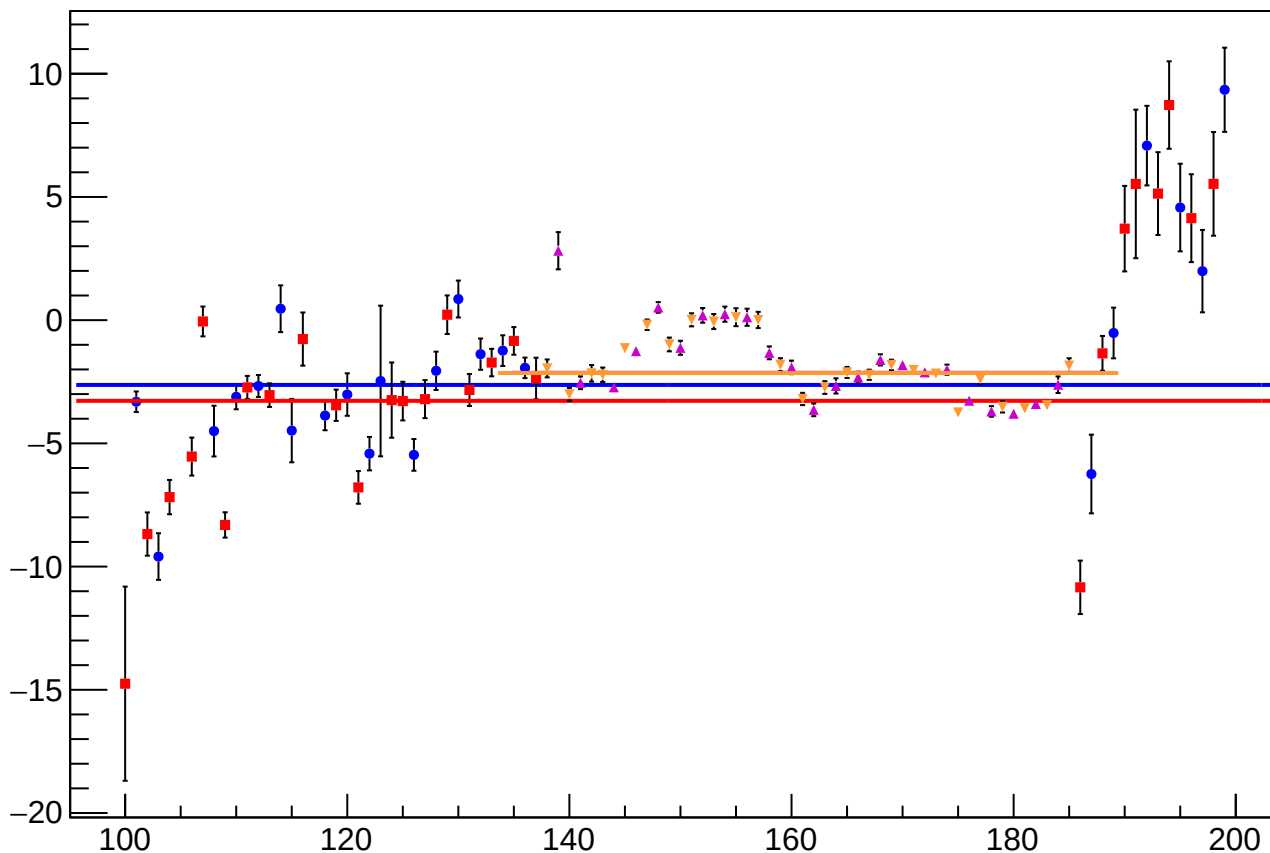
Right: 6.885 $\pm$ 0.300 χ^2 /NDF: 1880.9/13

In: 2.528 $\pm$ 0.059 χ^2 /NDF:1459.8/28

Out: 2.665 $\pm$ 0.058 χ^2 /NDF:2367.2/32

All: 2.598 $\pm$ 0.041 χ^2 /NDF: 3829.7/61

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: -3.274 ± 0.147 $\chi^2/\text{NDF}: 480.7/26$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

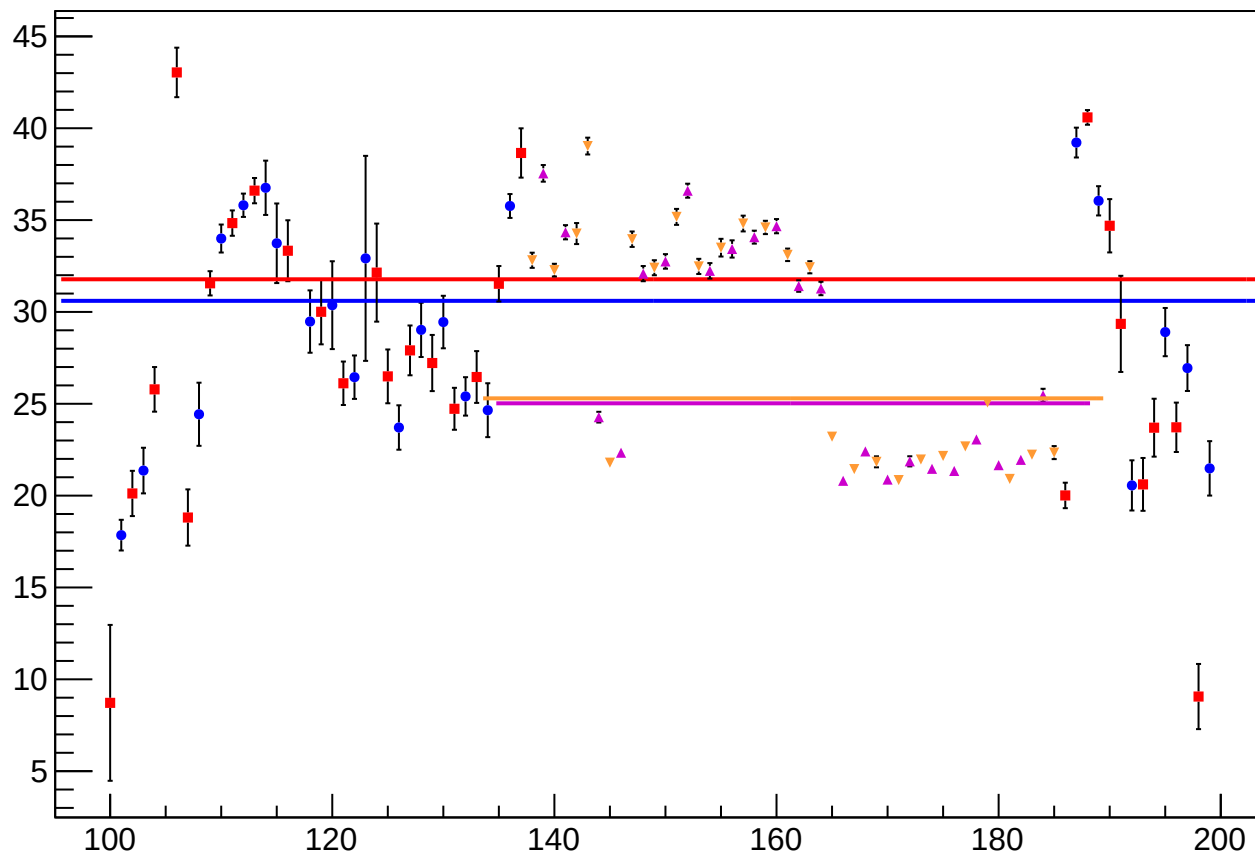
Right: -2.958 ± 0.105 $\chi^2/\text{NDF}: 757.4/49$

In: -2.183 ± 0.046 $\chi^2/\text{NDF}: 968.2/45$

Out: -2.253 ± 0.045 $\chi^2/\text{NDF}: 1107.3/51$

All: -2.218 ± 0.032 $\chi^2/\text{NDF}: 2076.7/97$

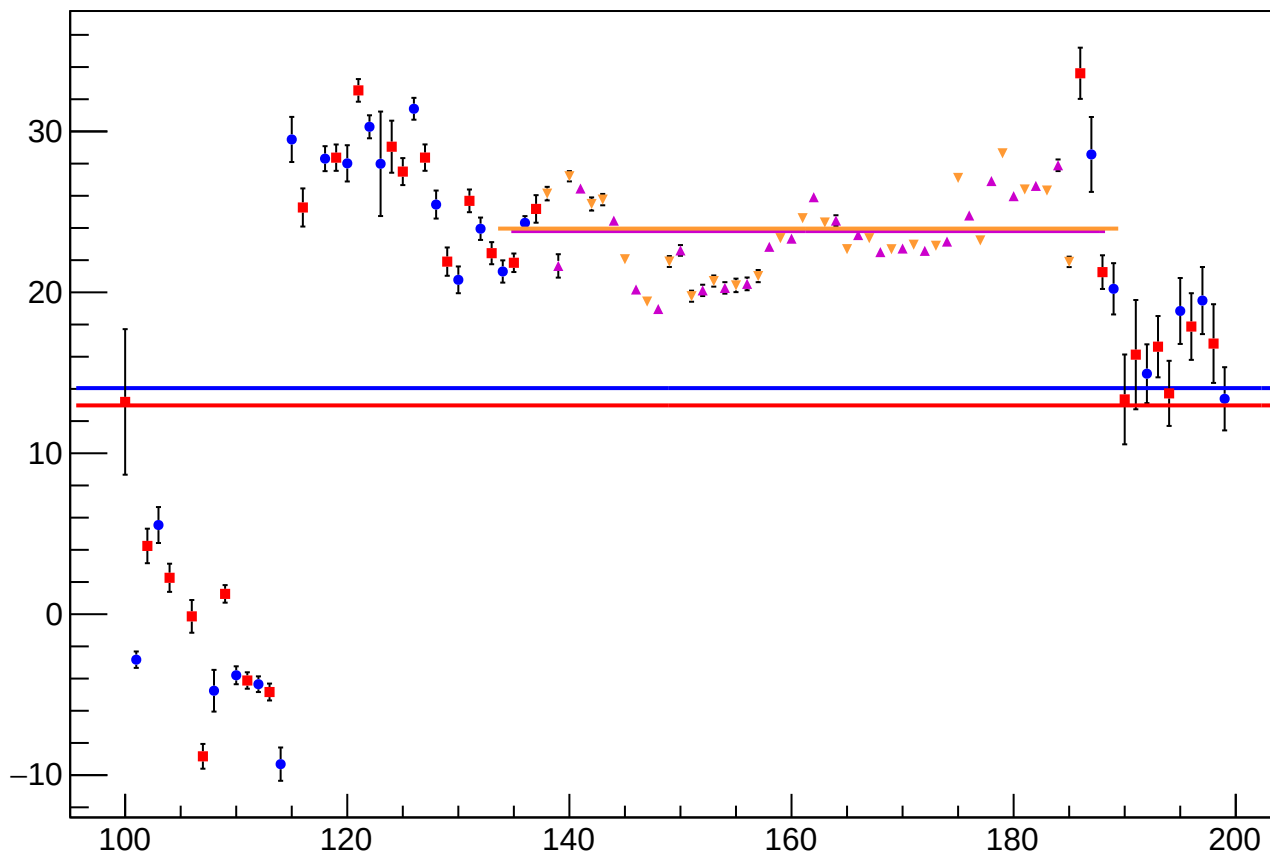
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.604 ± 0.228 $\chi^2/\text{NDF}: 821.1/22$
 Left Out: 25.296 ± 0.059 $\chi^2/\text{NDF}: 8272.3/24$
 Right Out: 31.777 ± 0.198 $\chi^2/\text{NDF}: 1551.8/26$
 Left In: 25.025 ± 0.060 $\chi^2/\text{NDF}: 7610.5/22$

Left: 25.162 ± 0.042 $\chi^2/\text{NDF}: 15893.3/47$
 Right: 31.272 ± 0.150 $\chi^2/\text{NDF}: 2388.0/49$
 In: 25.382 ± 0.058 $\chi^2/\text{NDF}: 8992.3/45$
 Out: 25.821 ± 0.056 $\chi^2/\text{NDF}: 10806.6/51$
 All: 25.606 ± 0.040 $\chi^2/\text{NDF}: 19828.5/97$

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: 12.975 $\pm$ 0.168 χ^2 /NDF: 7207.4/26

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

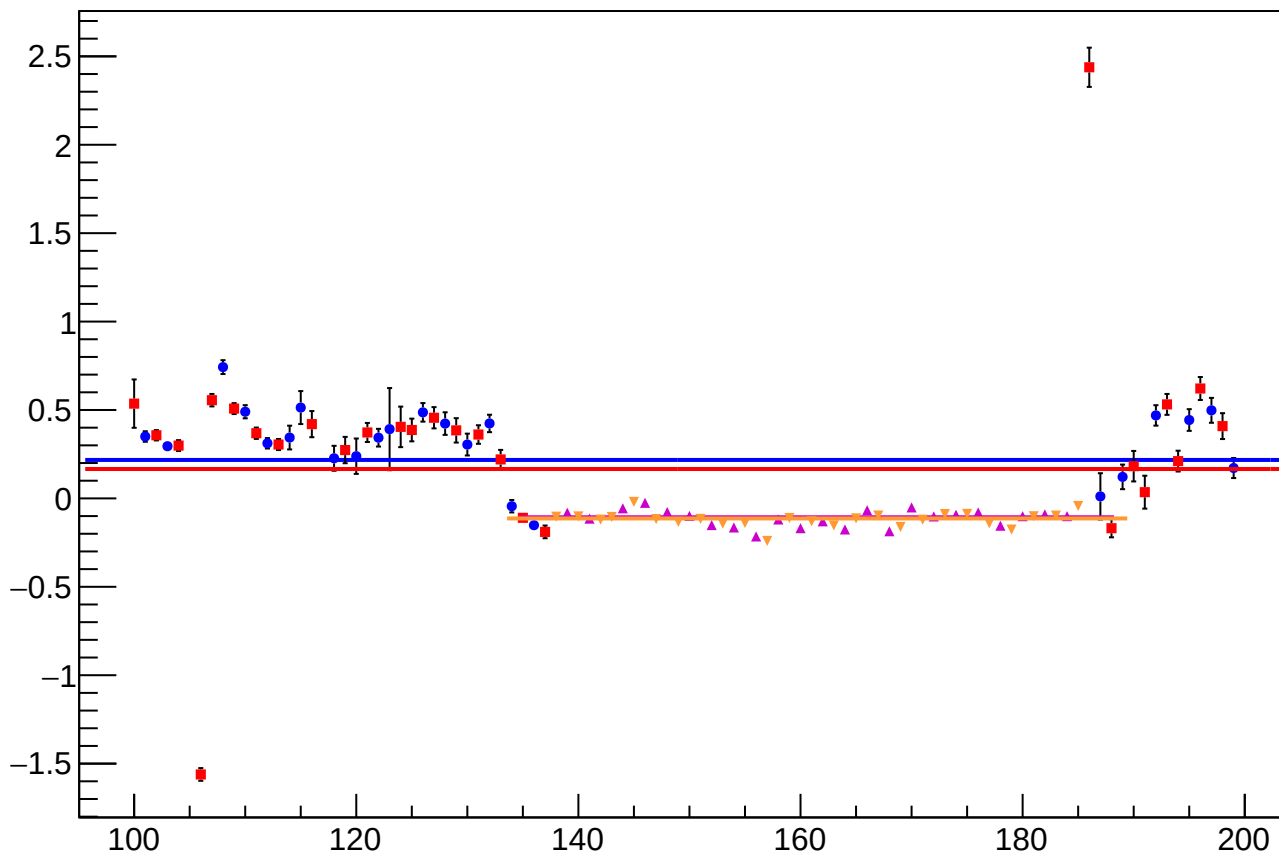
Right: 13.508 $\pm$ 0.119 χ^2 /NDF: 14570.7/49

In: 22.900 $\pm$ 0.051 χ^2 /NDF:12127.5/45

Out: 22.961 $\pm$ 0.051 χ^2 /NDF:13022.2/51

All: 22.931 $\pm$ 0.036 χ^2 /NDF: 25150.4/97

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.217 ± 0.009 $\chi^2/\text{NDF}: 901.8/22$

Left Out: -0.113 ± 0.002 $\chi^2/\text{NDF}: 291.0/24$

Right Out: 0.166 ± 0.009 $\chi^2/\text{NDF}: 3584.3/26$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

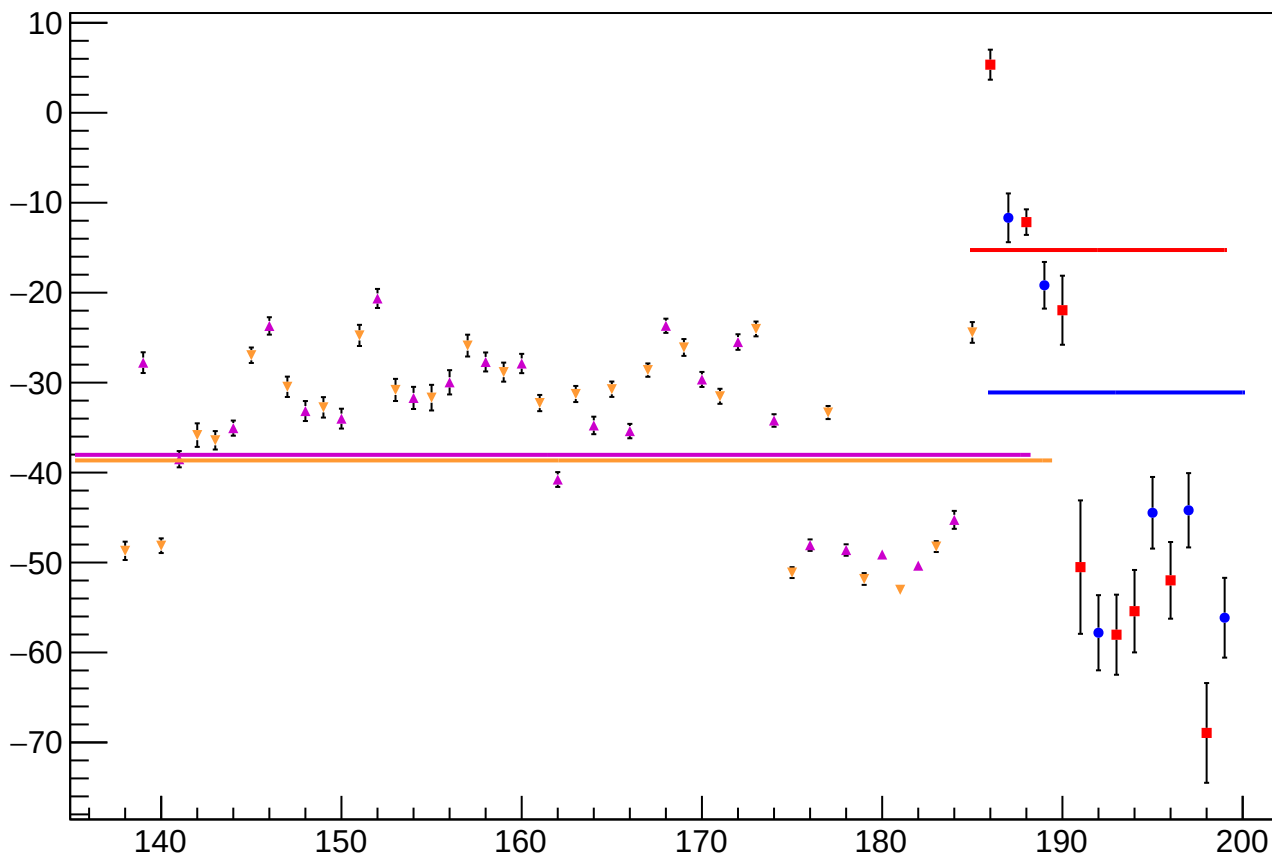
Right: 0.191 ± 0.006 $\chi^2/\text{NDF}: 4503.3/49$

In: -0.084 ± 0.002 $\chi^2/\text{NDF}: 2462.5/45$

Out: -0.093 ± 0.002 $\chi^2/\text{NDF}: 4852.4/51$

All: -0.088 ± 0.002 $\chi^2/\text{NDF}: 7322.9/97$

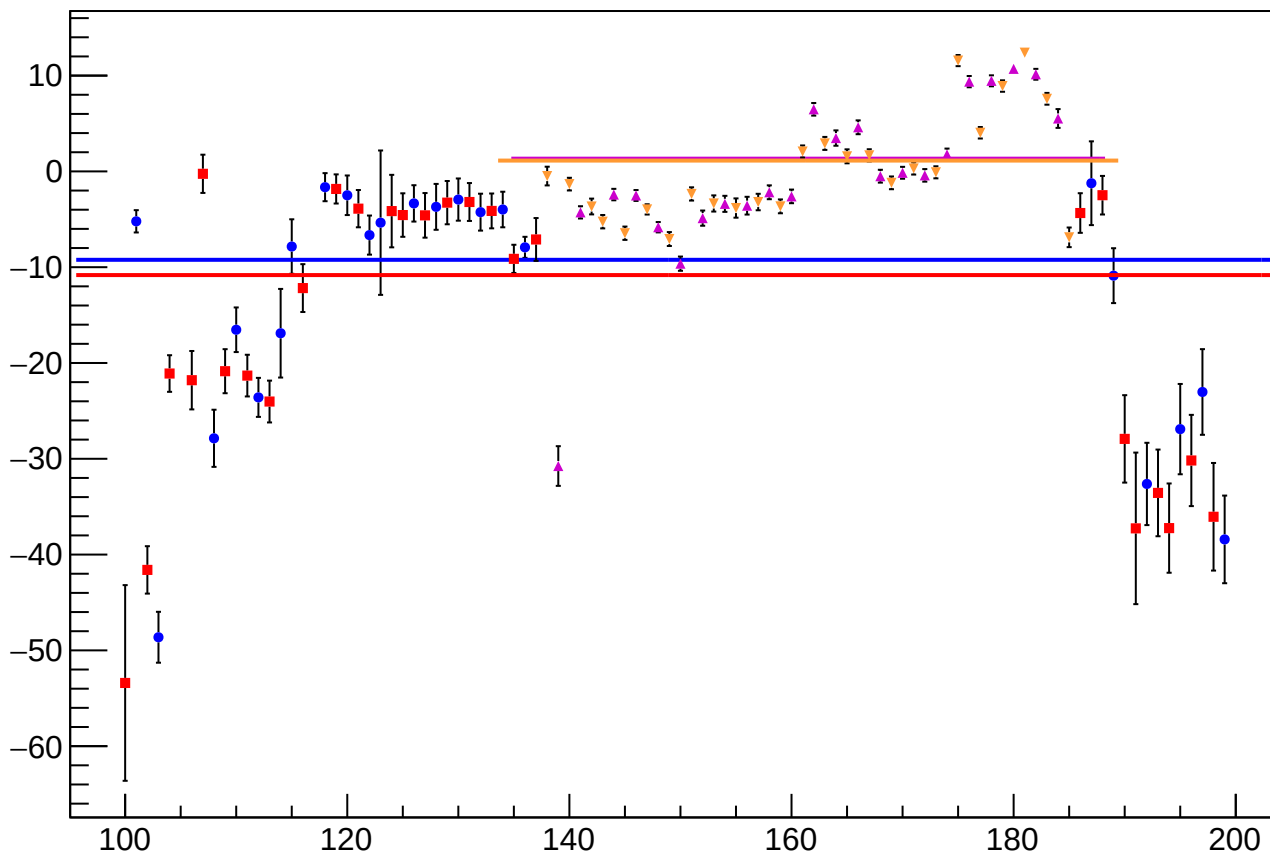
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



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: -15.258 ± 0.942 $\chi^2/\text{NDF}: 519.8/7$
 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: -20.226 ± 0.781 $\chi^2/\text{NDF}: 774.8/13$
 In: -37.922 ± 0.172 $\chi^2/\text{NDF}: 3282.8/28$
 Out: -37.920 ± 0.166 $\chi^2/\text{NDF}: 5193.8/32$
 All: -37.921 ± 0.120 $\chi^2/\text{NDF}: 8476.5/61$

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.229 ± 0.449 χ^2/NDF : 509.5/22

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -10.823 ± 0.454 χ^2/NDF : 576.7/26

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

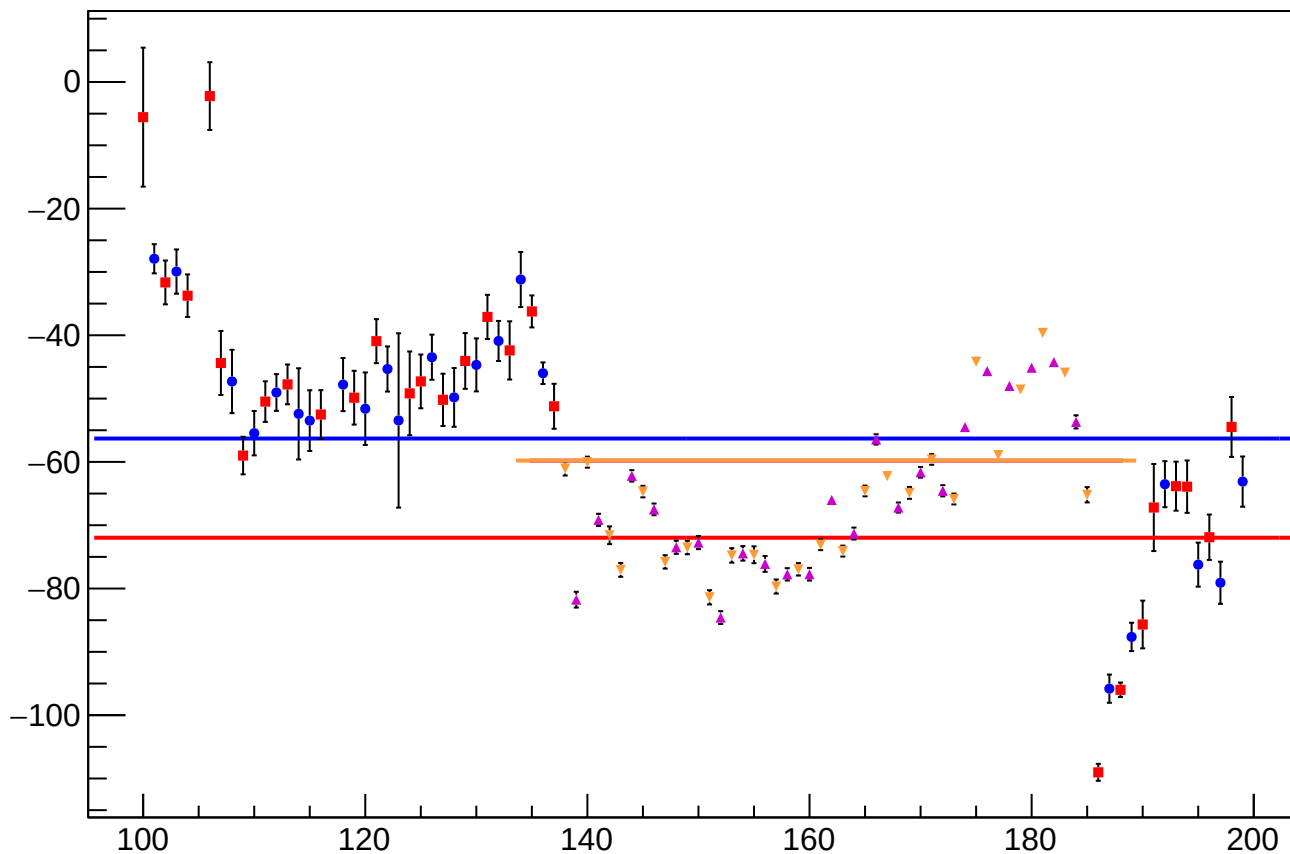
Right: -10.017 ± 0.319 χ^2/NDF : 1092.5/49

In: 0.395 ± 0.134 χ^2/NDF : 3062.0/45

Out: 0.146 ± 0.130 χ^2/NDF : 3012.2/51

All: 0.267 ± 0.093 χ^2/NDF : 6076.0/97

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: -71.973 ± 0.579 χ^2/NDF : 2488.4/26

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

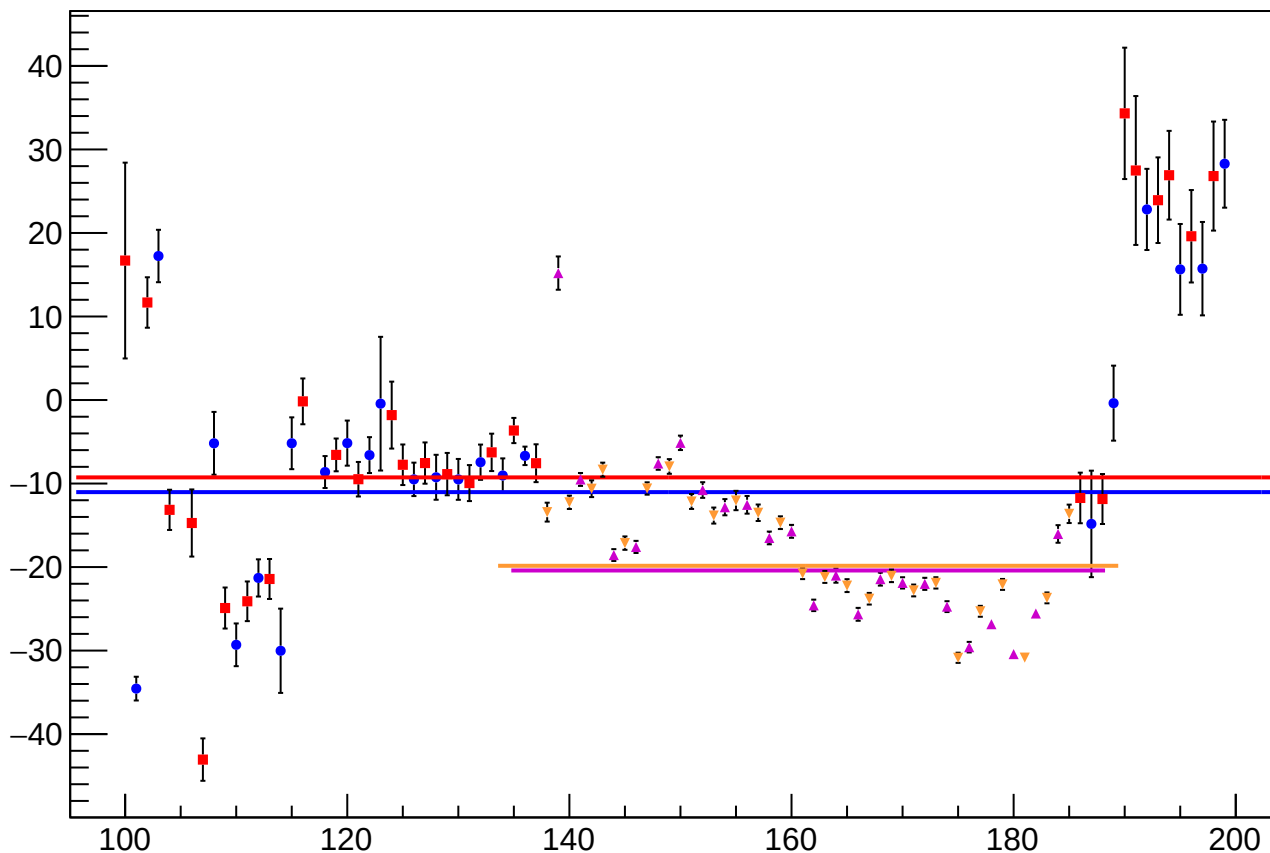
Right: -65.441 ± 0.442 χ^2/NDF : 3740.6/49

In: -59.592 ± 0.168 χ^2/NDF : 6188.7/45

Out: -60.758 ± 0.163 χ^2/NDF : 8734.1/51

All: -60.192 ± 0.117 χ^2/NDF : 14947.6/97

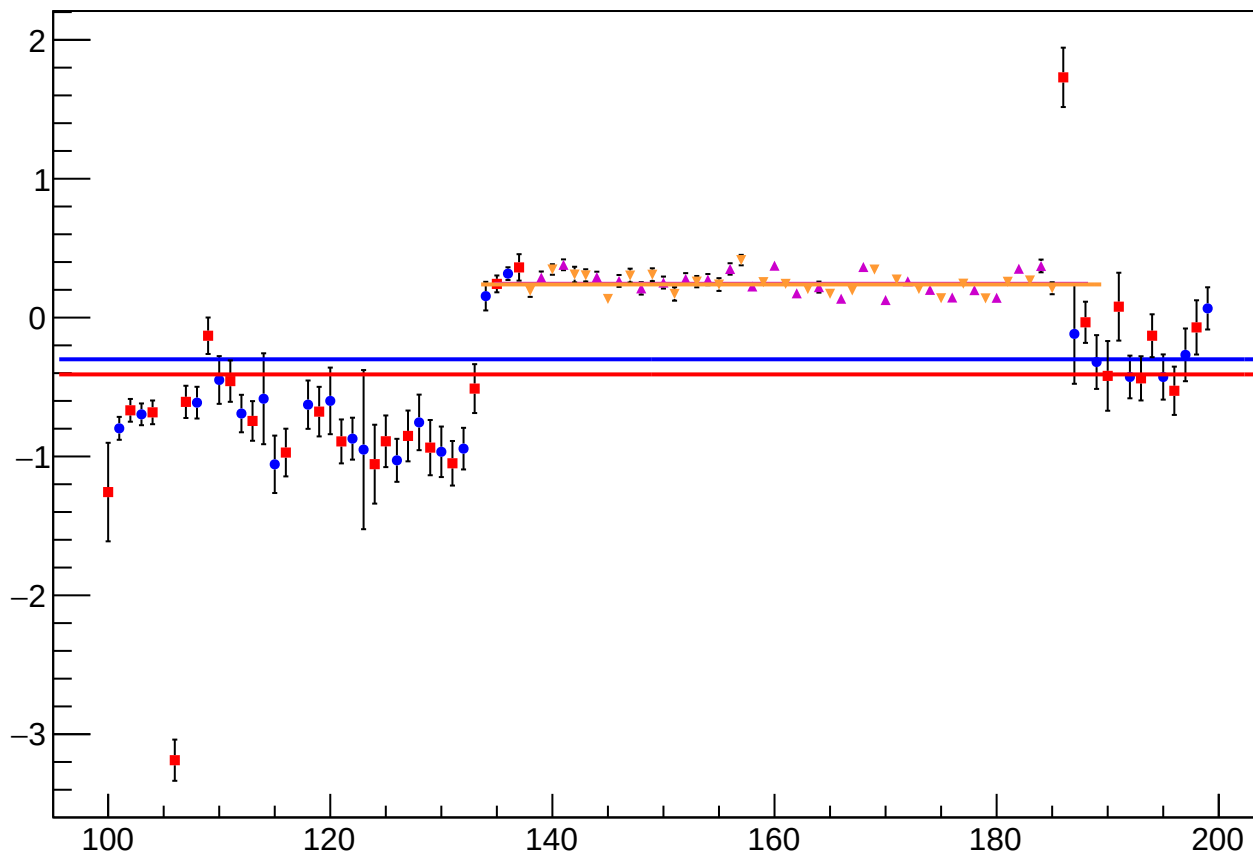
reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



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: -9.264 ± 0.525 χ^2/NDF : 568.7/26
 Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47
 Right: -10.173 ± 0.365 χ^2/NDF : 1212.3/49
 In: -19.597 ± 0.150 χ^2/NDF : 3250.5/45
 Out: -19.021 ± 0.147 χ^2/NDF : 2874.8/51
 All: -19.303 ± 0.105 χ^2/NDF : 6132.8/97

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: -0.409 ± 0.026 χ^2/NDF : 751.3/26

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

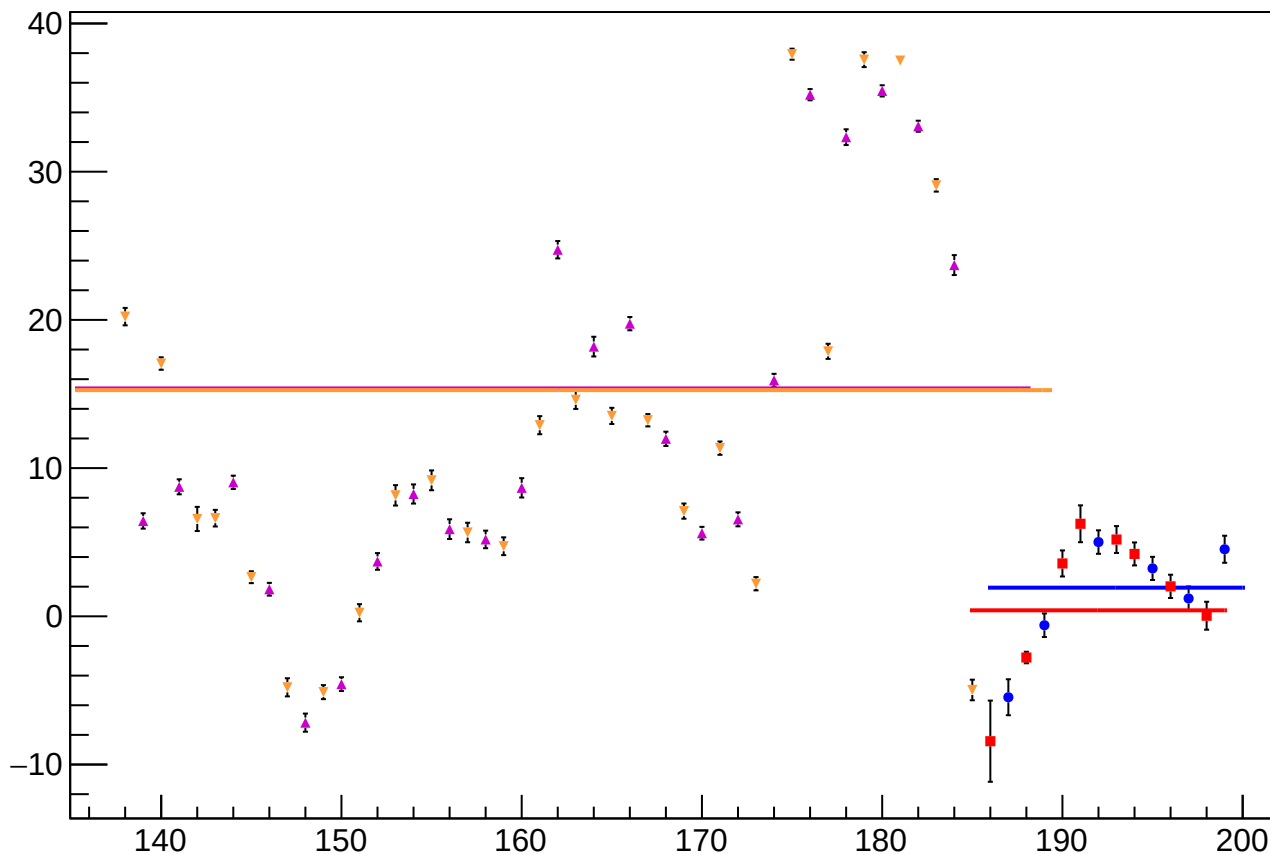
Right: -0.354 ± 0.018 χ^2/NDF : 1139.2/49

In: 0.204 ± 0.007 χ^2/NDF : 928.7/45

Out: 0.195 ± 0.007 χ^2/NDF : 1416.5/51

All: 0.200 ± 0.005 χ^2/NDF : 2346.1/97

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: 0.404+/-0.264 χ^2/NDF : 168.7/7

Left In: 15.377+/-0.103 χ^2/NDF :16268.9/22

Left: 15.318+/-0.072 χ^2/NDF : 35444.7/47

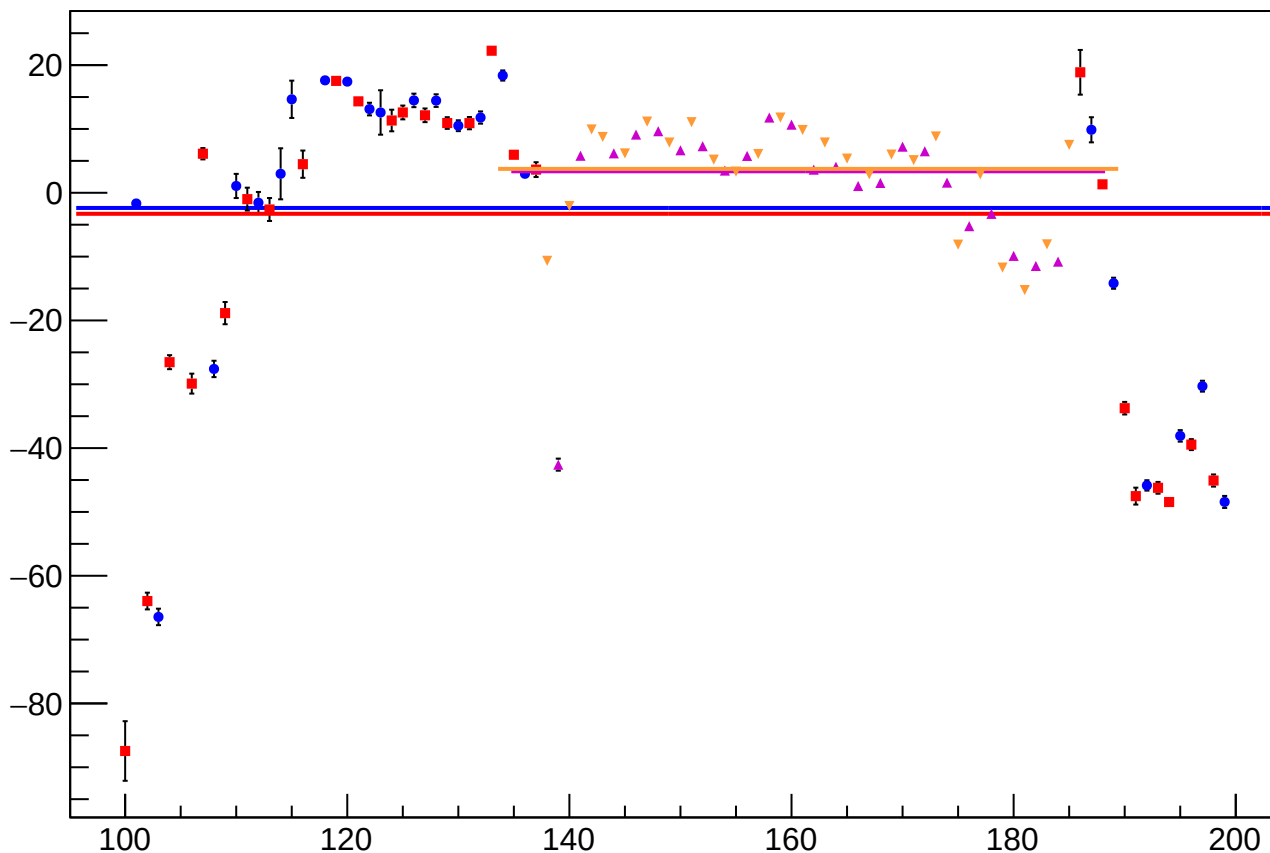
Right: 0.962+/-0.211 χ^2/NDF : 254.9/13

In: 14.304+/-0.099 χ^2/NDF :17708.7/28

Out: 13.386+/-0.094 χ^2/NDF :22104.8/32

All: 13.823+/-0.068 χ^2/NDF : 39859.0/61

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: -3.293 ± 0.177 $\chi^2/\text{NDF}: 21109.2/26$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

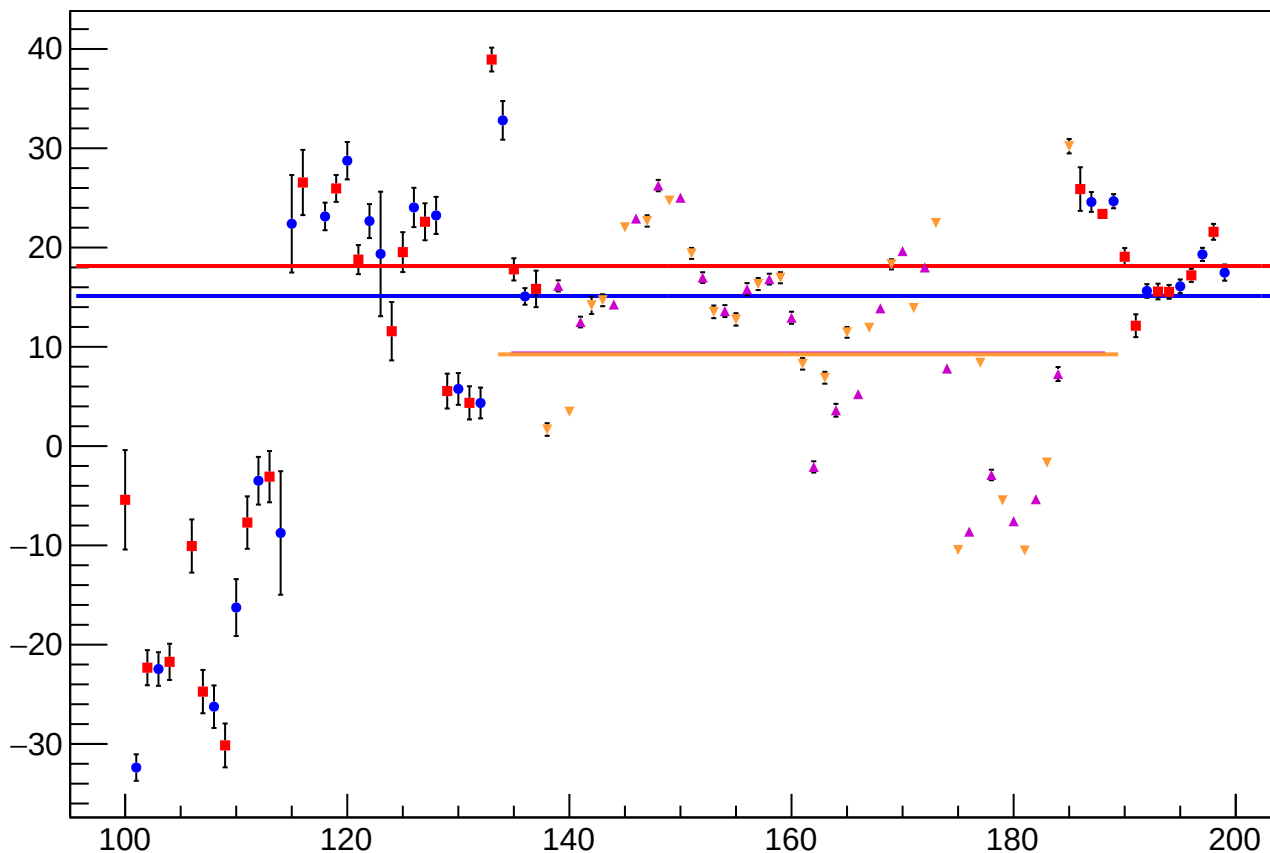
Right: -2.866 ± 0.129 $\chi^2/\text{NDF}: 36670.7/49$

In: 2.475 ± 0.075 $\chi^2/\text{NDF}: 24850.5/45$

Out: 2.583 ± 0.072 $\chi^2/\text{NDF}: 31676.7/51$

All: 2.531 ± 0.052 $\chi^2/\text{NDF}: 56528.2/97$

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: 18.139+/-0.198 χ^2/NDF : 2996.5/26

Left In: 9.328+/-0.103 χ^2/NDF :11968.5/22

Left: 9.284+/-0.072 χ^2/NDF : 25602.0/47

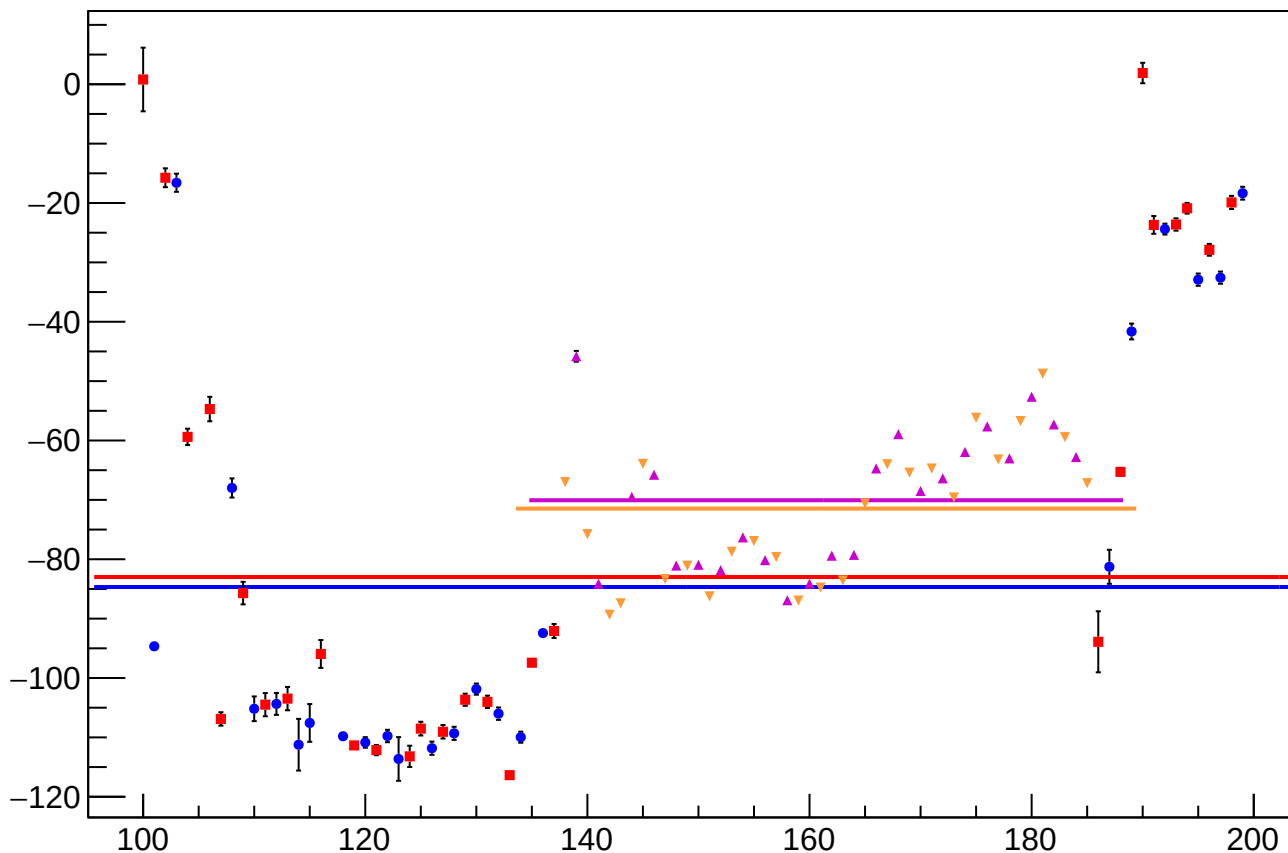
Right: 16.948+/-0.154 χ^2/NDF : 6046.1/49

In: 10.191+/-0.095 χ^2/NDF :15401.7/45

Out: 11.077+/-0.090 χ^2/NDF :18233.1/51

All: 10.657+/-0.065 χ^2/NDF : 33680.9/97

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: -82.991 ± 0.210 χ^2/NDF : 31112.4/26

Left In: -70.061 ± 0.092 χ^2/NDF : 13058.5/22

Left: -70.782 ± 0.064 χ^2/NDF : 29588.5/47

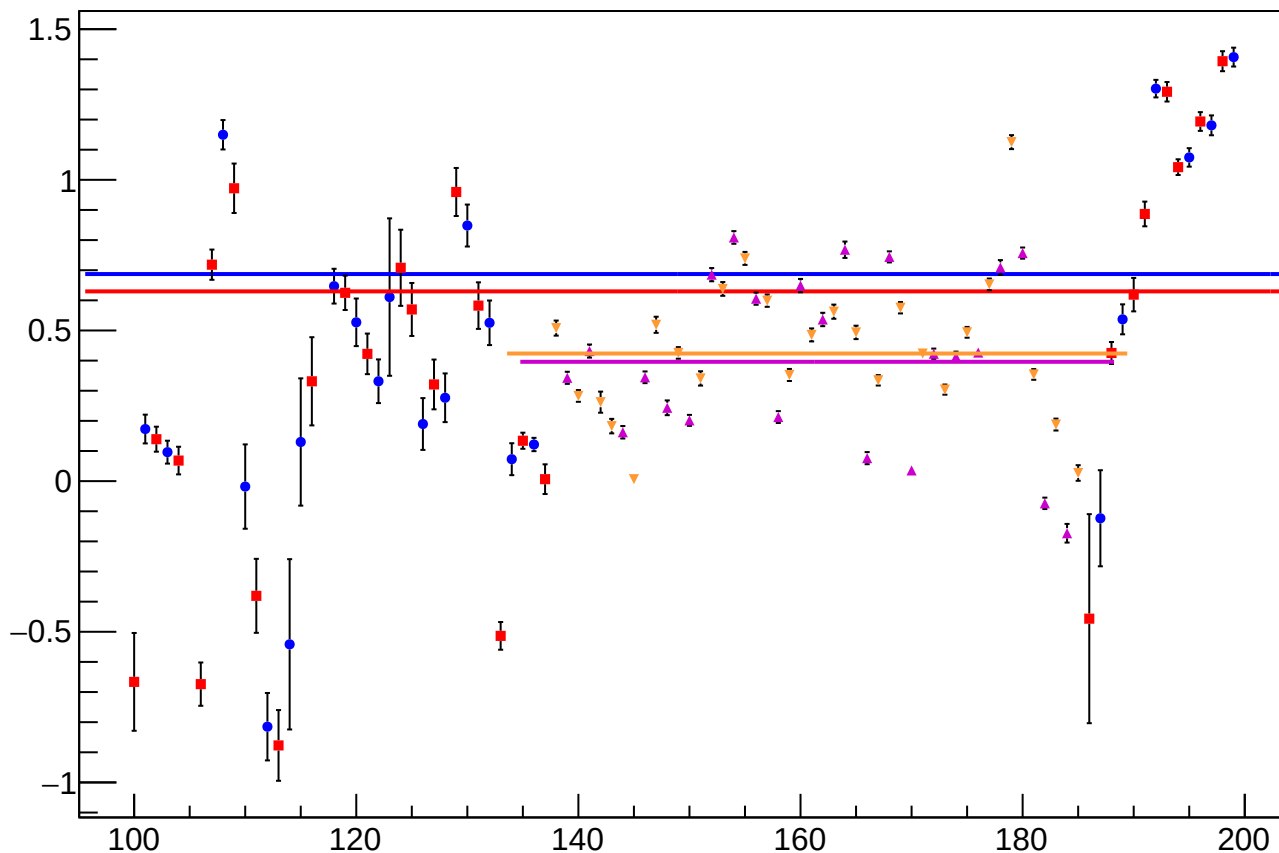
Right: -83.790 ± 0.152 χ^2/NDF : 53708.5/49

In: -72.208 ± 0.085 χ^2/NDF : 39354.1/45

Out: -73.232 ± 0.082 χ^2/NDF : 50076.3/51

All: -72.736 ± 0.059 χ^2/NDF : 89505.7/97

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: 0.630 ± 0.009 χ^2/NDF : 3710.8/26

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

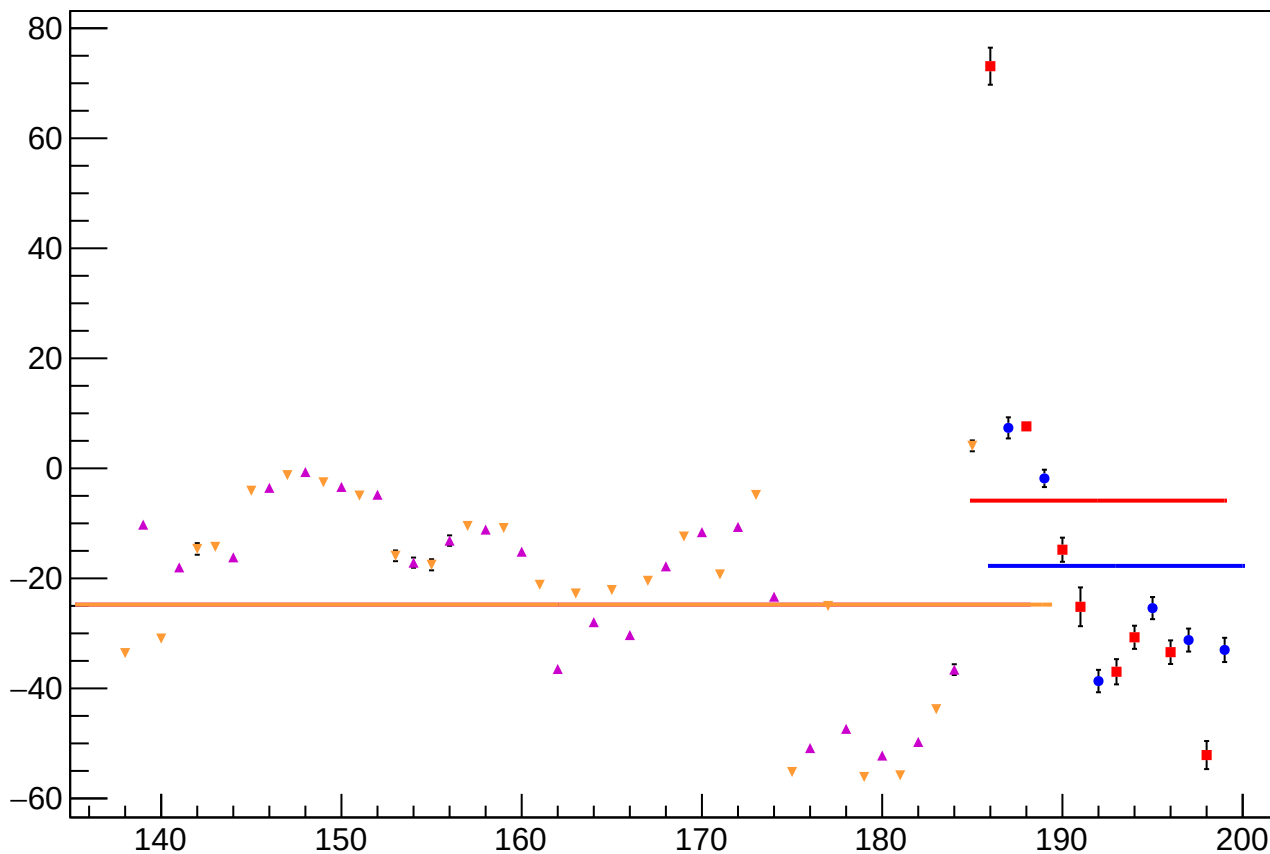
Right: 0.657 ± 0.007 χ^2/NDF : 6691.2/49

In: 0.439 ± 0.004 χ^2/NDF : 7742.4/45

Out: 0.457 ± 0.004 χ^2/NDF : 7007.0/51

All: 0.448 ± 0.003 χ^2/NDF : 14760.0/97

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: -5.869 ± 0.606 $\chi^2/\text{NDF}: 1697.0/7$
 Left In: -24.775 ± 0.143 $\chi^2/\text{NDF}: 14807.4/22$

Left: -24.772 ± 0.100 $\chi^2/\text{NDF}: 33126.2/47$

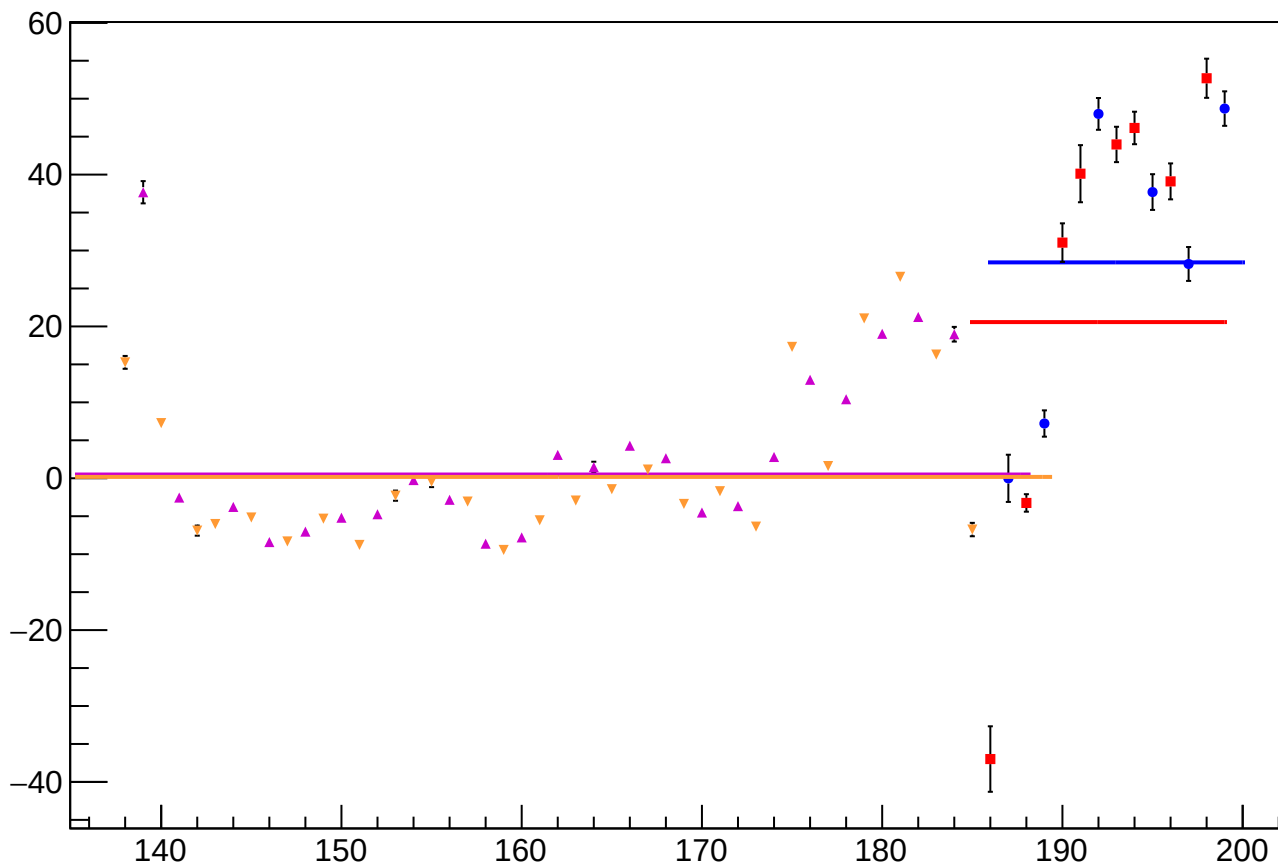
Right: -10.251 ± 0.481 $\chi^2/\text{NDF}: 2320.5/13$

In: -24.553 ± 0.140 $\chi^2/\text{NDF}: 15366.0/28$

Out: -23.819 ± 0.136 $\chi^2/\text{NDF}: 20939.6/32$

All: -24.174 ± 0.098 $\chi^2/\text{NDF}: 36319.7/61$

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: 20.572+/-0.753 χ^2/NDF : 1109.0/7

Left In: 0.493+/-0.112 χ^2/NDF : 6555.4/22

Left: 0.330+/-0.078 χ^2/NDF : 14855.0/47

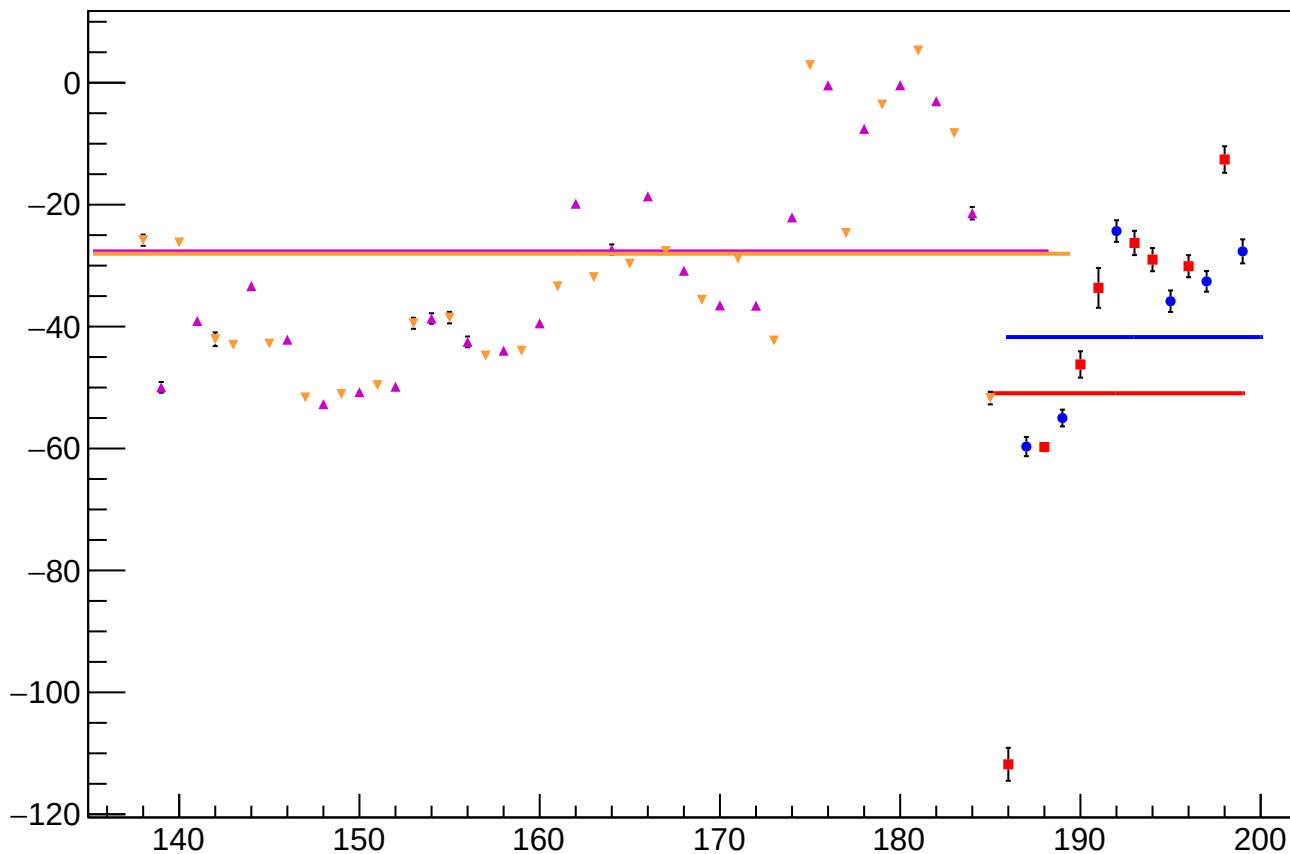
Right: 23.818+/-0.577 χ^2/NDF : 1570.0/13

In: 0.922+/-0.111 χ^2/NDF : 7924.2/28

Out: 0.592+/-0.107 χ^2/NDF : 10123.1/32

All: 0.751+/-0.077 χ^2/NDF : 18051.9/61

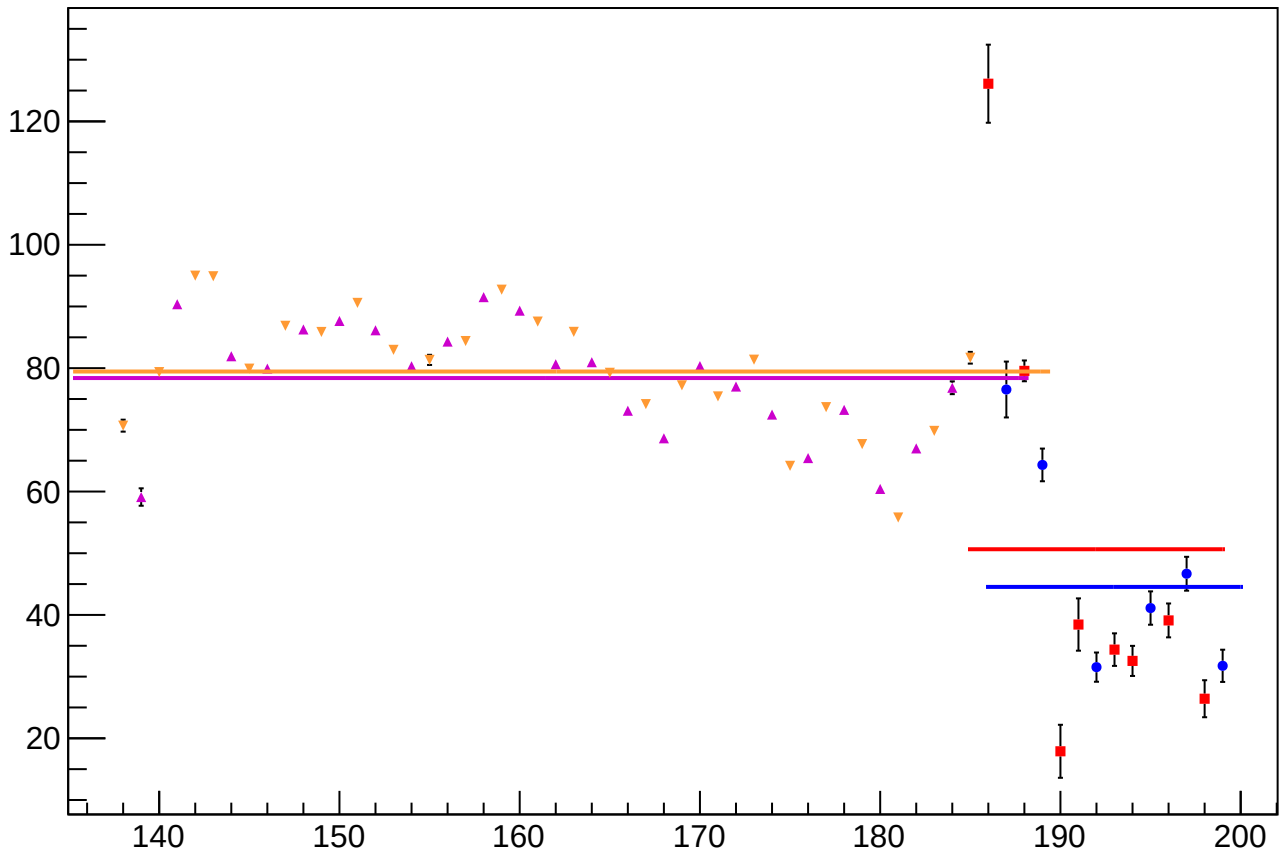
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.718 ± 0.678 $\chi^2/\text{NDF}: 409.9/5$
 Left Out: -28.050 ± 0.140 $\chi^2/\text{NDF}: 17144.5/24$
 Right Out: -50.930 ± 0.508 $\chi^2/\text{NDF}: 1454.6/7$
 Left In: -27.666 ± 0.142 $\chi^2/\text{NDF}: 15003.2/22$

Left: -27.862 ± 0.100 $\chi^2/\text{NDF}: 32151.3/47$
 Right: -47.619 ± 0.407 $\chi^2/\text{NDF}: 1982.7/13$
 In: -28.260 ± 0.139 $\chi^2/\text{NDF}: 15824.2/28$
 Out: -29.662 ± 0.135 $\chi^2/\text{NDF}: 20484.7/32$
 All: -28.984 ± 0.097 $\chi^2/\text{NDF}: 36361.2/61$

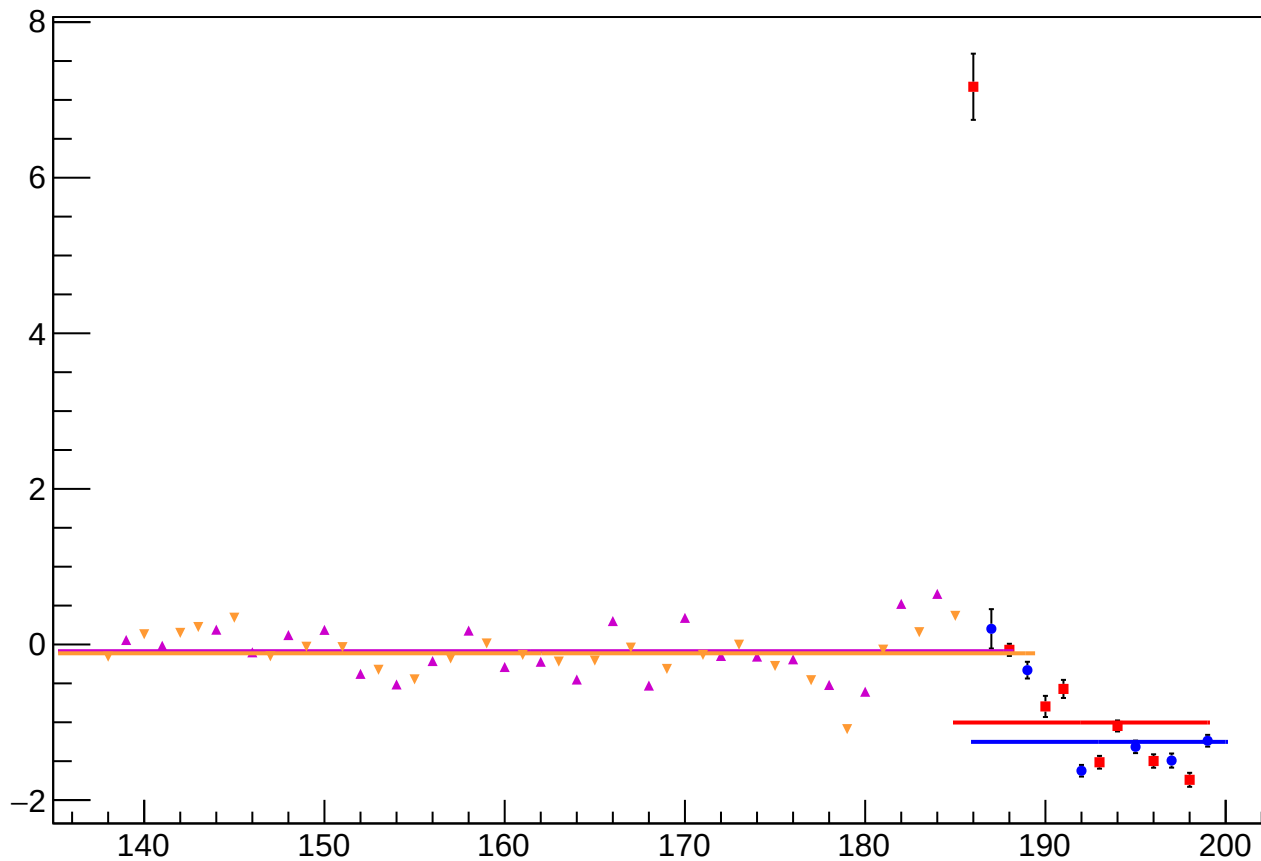
reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



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: 50.647 ± 0.980 $\chi^2/\text{NDF}: 678.6/7$
 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: 48.023 ± 0.740 $\chi^2/\text{NDF}: 857.2/13$
 In: 77.974 ± 0.126 $\chi^2/\text{NDF}: 5758.2/28$
 Out: 79.007 ± 0.122 $\chi^2/\text{NDF}: 7606.9/32$
 All: 78.506 ± 0.088 $\chi^2/\text{NDF}: 13399.7/61$

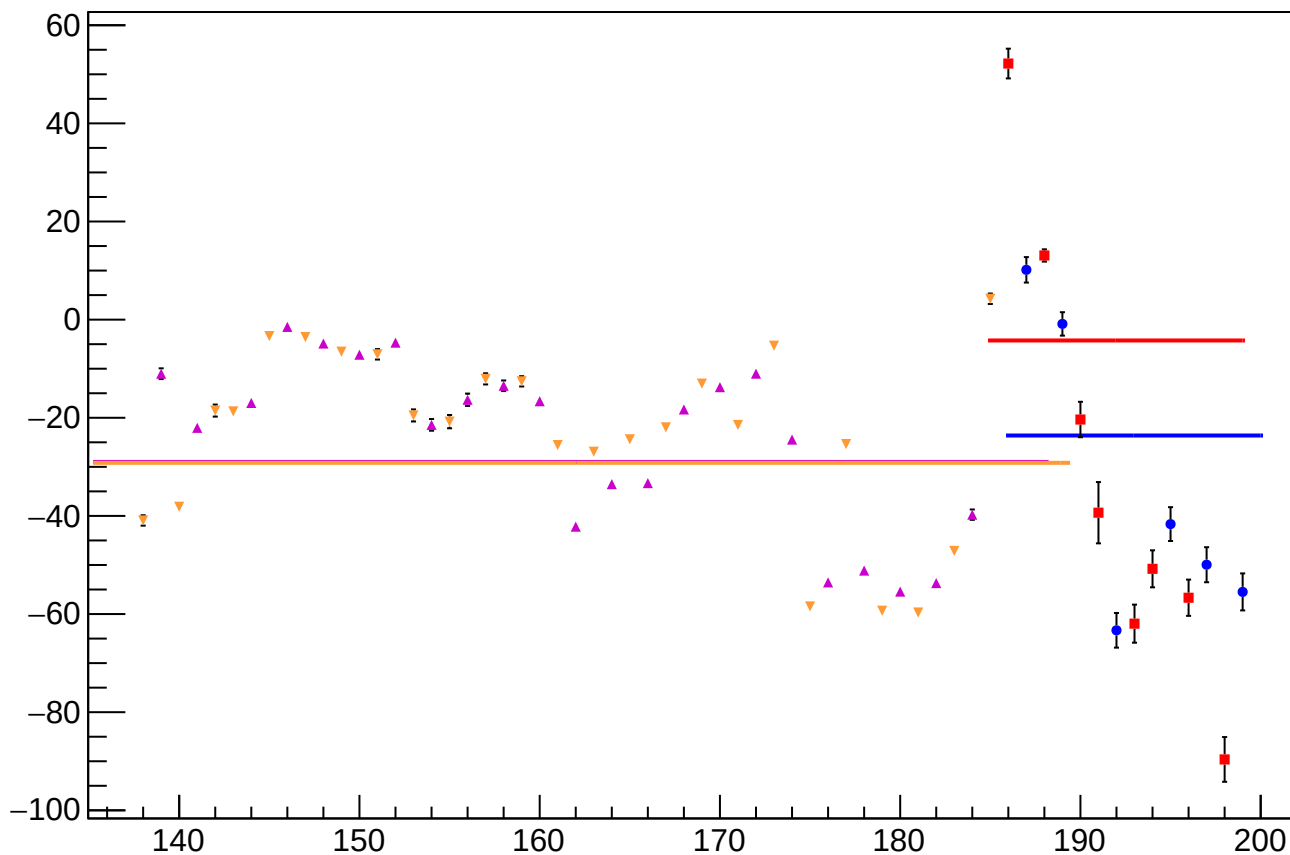
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



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: -1.003 ± 0.033 χ^2/NDF : 668.5/7
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -1.114 ± 0.025 χ^2/NDF : 832.3/13
 In: -0.114 ± 0.006 χ^2/NDF : 4241.1/28
 Out: -0.139 ± 0.006 χ^2/NDF : 3668.0/32
 All: -0.127 ± 0.004 χ^2/NDF : 7918.4/61

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.614 ± 1.253 χ^2/NDF : 539.7/5

Left Out: -29.180 ± 0.157 χ^2/NDF : 16912.2/24

Right Out: -4.245 ± 0.950 χ^2/NDF : 1515.6/7

Left In: -29.003 ± 0.160 χ^2/NDF : 13416.8/22

Left: -29.093 ± 0.112 χ^2/NDF : 30329.6/47

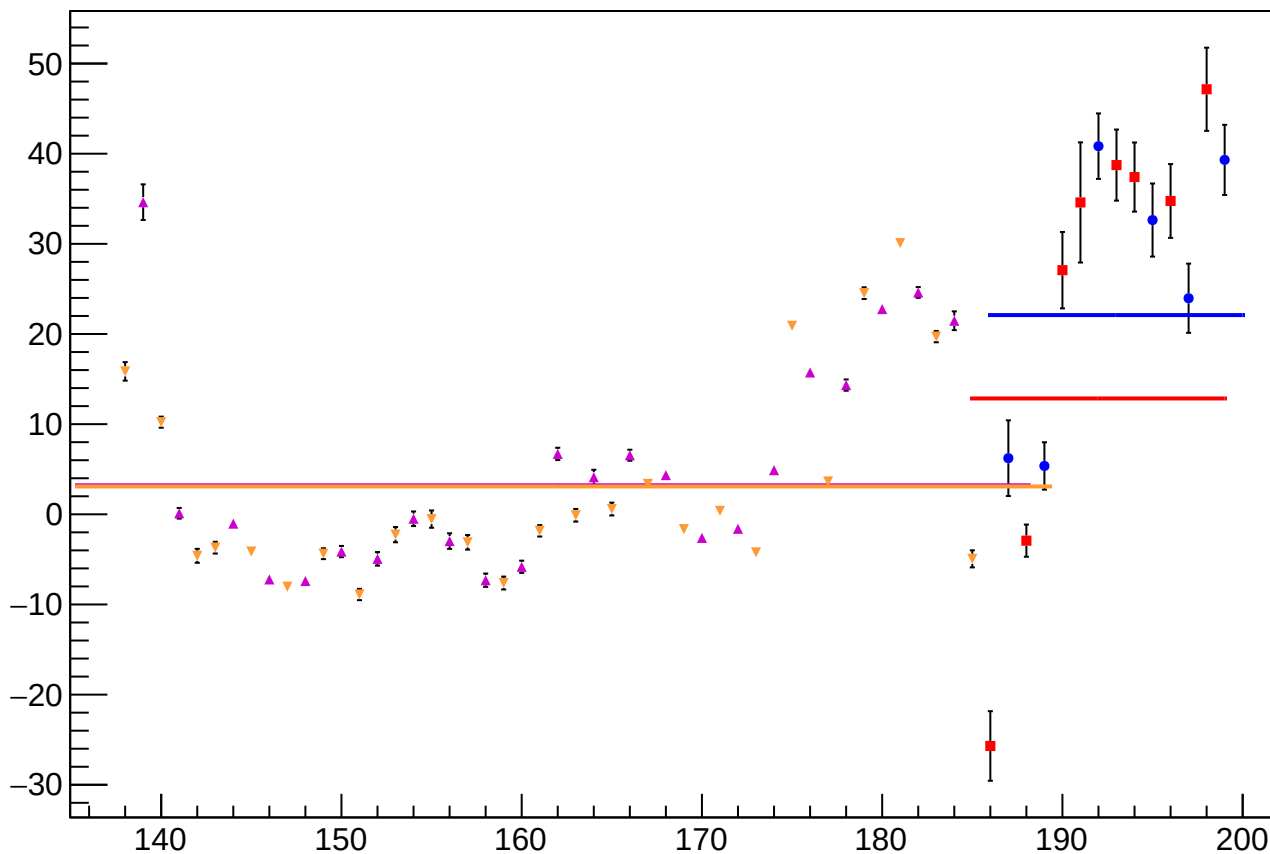
Right: -11.320 ± 0.757 χ^2/NDF : 2207.0/13

In: -28.916 ± 0.159 χ^2/NDF : 13974.7/28

Out: -28.520 ± 0.155 χ^2/NDF : 19098.0/32

All: -28.713 ± 0.111 χ^2/NDF : 33075.9/61

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: 12.850 $\pm$ 1.197 χ^2 /NDF: 367.7/7

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

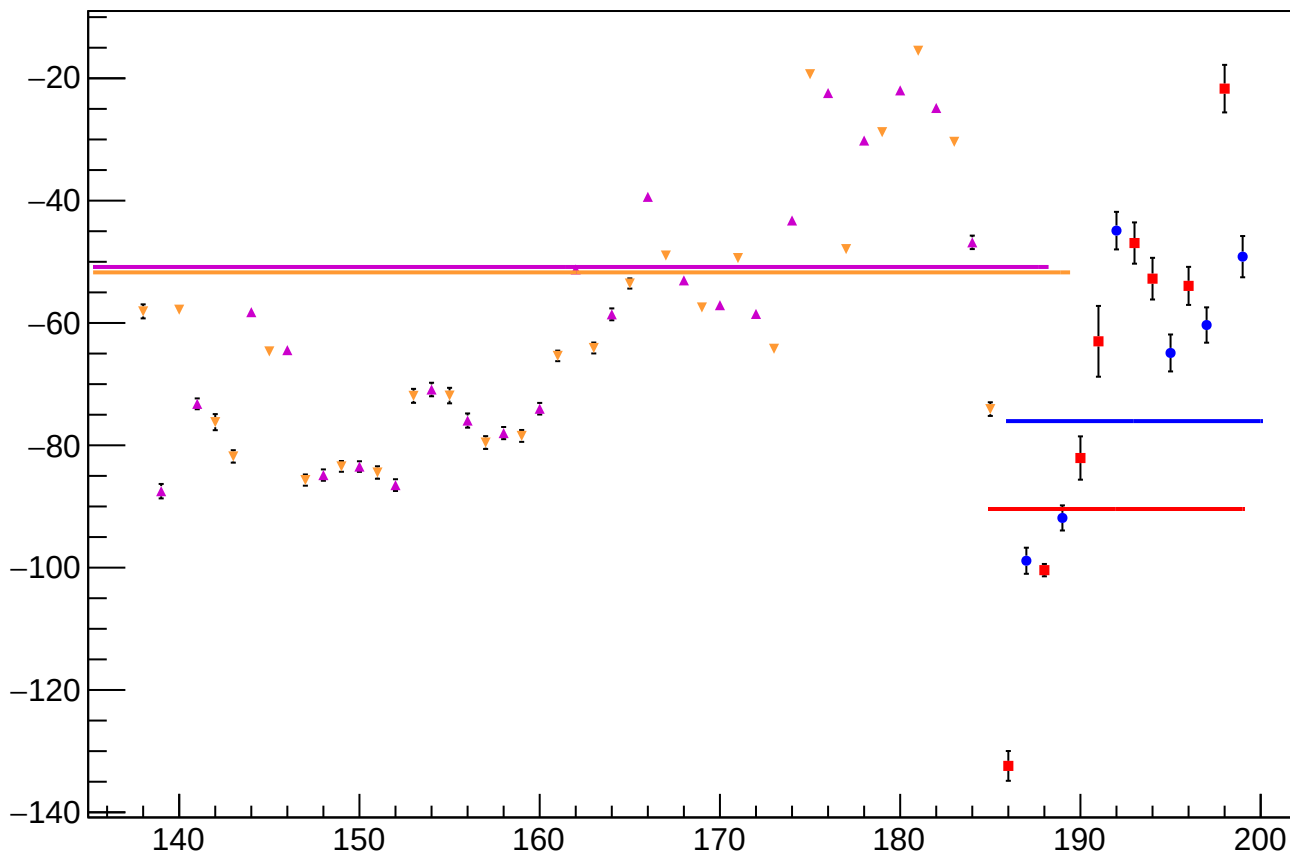
Right: 16.583 $\pm$ 0.924 χ^2 /NDF: 499.9/13

In: 3.364 $\pm$ 0.126 χ^2 /NDF:6512.8/28

Out: 3.195 $\pm$ 0.124 χ^2 /NDF:8517.6/32

All: 3.278 $\pm$ 0.088 χ^2 /NDF: 15031.3/61

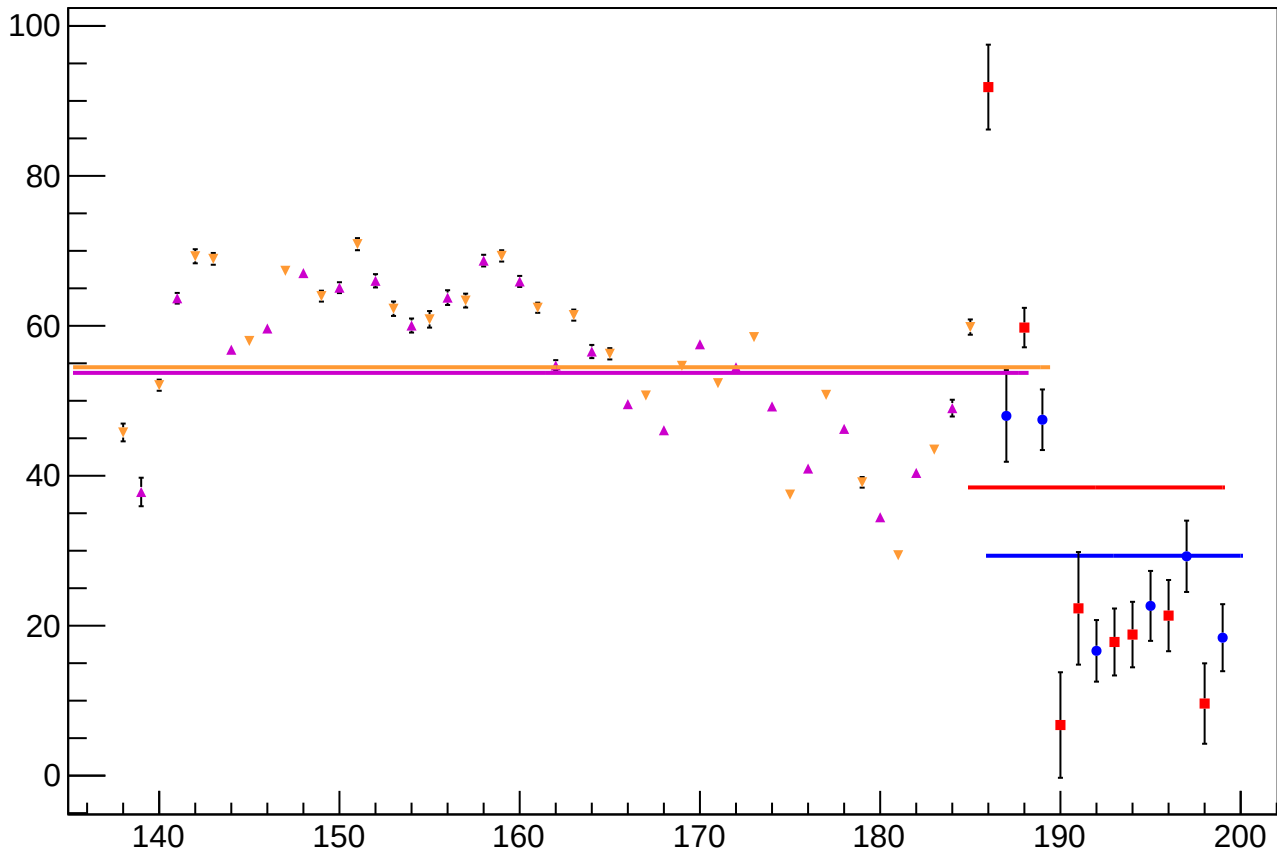
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.043+/-1.066 χ^2/NDF : 383.5/5
 Left Out: -51.729+/-0.158 χ^2/NDF :19538.0/24
 Right Out: -90.412+/-0.790 χ^2/NDF : 1161.9/7
 Left In: -50.844+/-0.160 χ^2/NDF :17272.0/22

Left: -51.293+/-0.112 χ^2/NDF : 36825.5/47
 Right: -85.314+/-0.635 χ^2/NDF : 1662.6/13
 In: -51.400+/-0.158 χ^2/NDF :18202.2/28
 Out: -53.214+/-0.155 χ^2/NDF :23003.3/32
 All: -52.327+/-0.111 χ^2/NDF : 41272.5/61

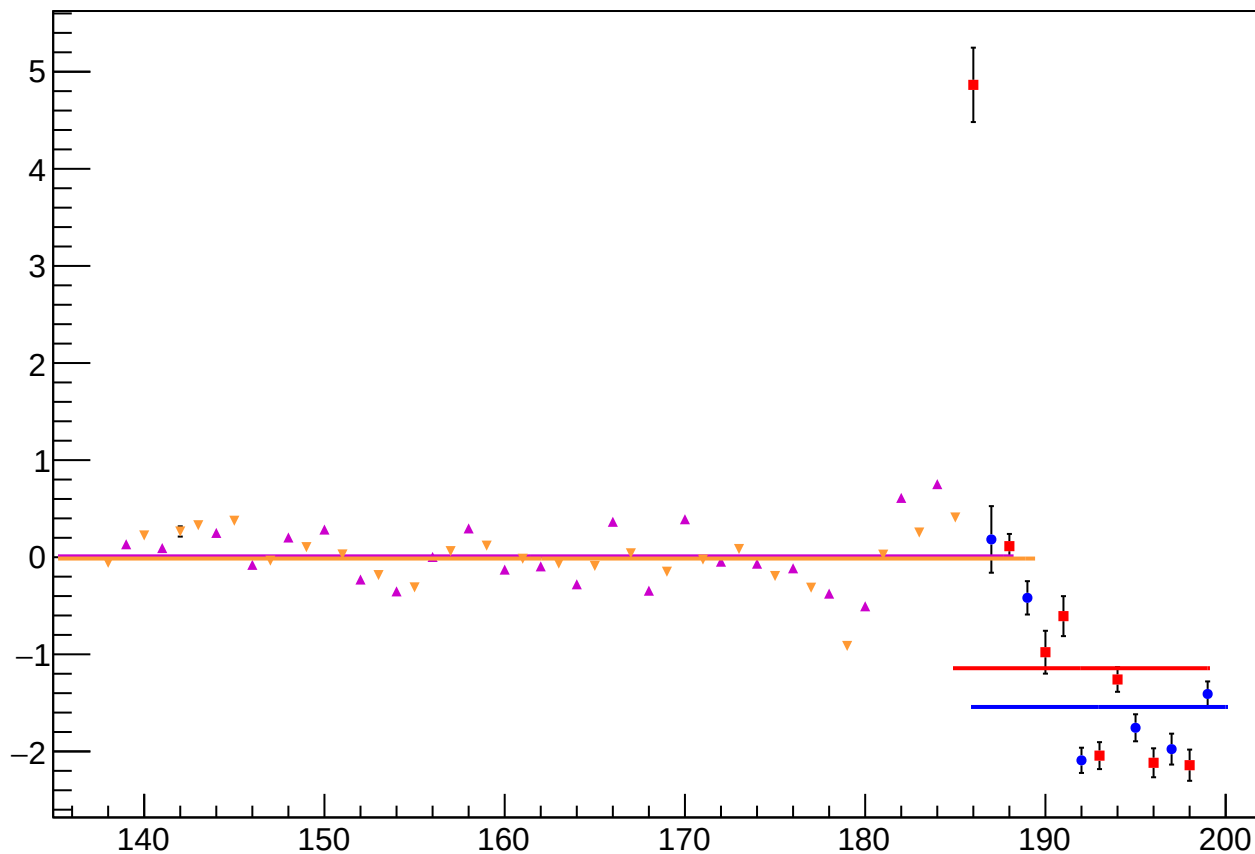
reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 29.331 ± 1.865 $\chi^2/\text{NDF}: 47.0/5$
 Left Out: 54.476 ± 0.140 $\chi^2/\text{NDF}: 6266.9/24$
 Right Out: 38.441 ± 1.591 $\chi^2/\text{NDF}: 262.9/7$
 Left In: 53.724 ± 0.143 $\chi^2/\text{NDF}: 4585.7/22$

Left: 54.107 ± 0.100 $\chi^2/\text{NDF}: 10866.7/47$
 Right: 34.605 ± 1.210 $\chi^2/\text{NDF}: 323.7/13$
 In: 53.581 ± 0.143 $\chi^2/\text{NDF}: 4802.7/28$
 Out: 54.352 ± 0.140 $\chi^2/\text{NDF}: 6630.6/32$
 All: 53.975 ± 0.100 $\chi^2/\text{NDF}: 11448.3/61$

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Left: -0.003 ± 0.005 $\chi^2/\text{NDF}: 3881.4/47$

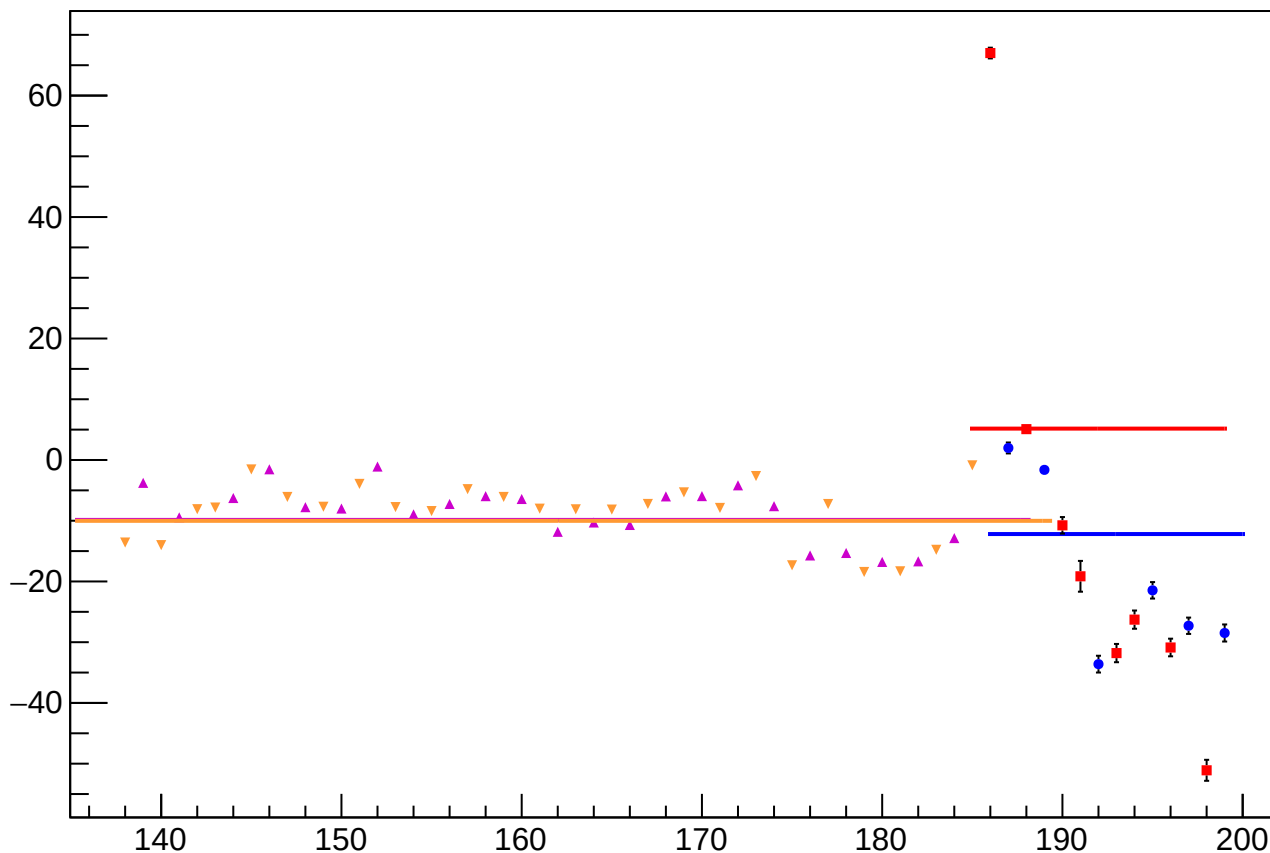
Right: -1.322 ± 0.042 $\chi^2/\text{NDF}: 596.6/13$

In: -0.008 ± 0.007 $\chi^2/\text{NDF}: 2918.6/28$

Out: -0.028 ± 0.006 $\chi^2/\text{NDF}: 2525.1/32$

All: -0.018 ± 0.005 $\chi^2/\text{NDF}: 5448.7/61$

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: 5.168 ± 0.339 χ^2/NDF : 7829.3/7

Left In: -9.865 ± 0.051 χ^2/NDF : 9345.4/22

Left: -9.942 ± 0.036 χ^2/NDF : 21902.5/47

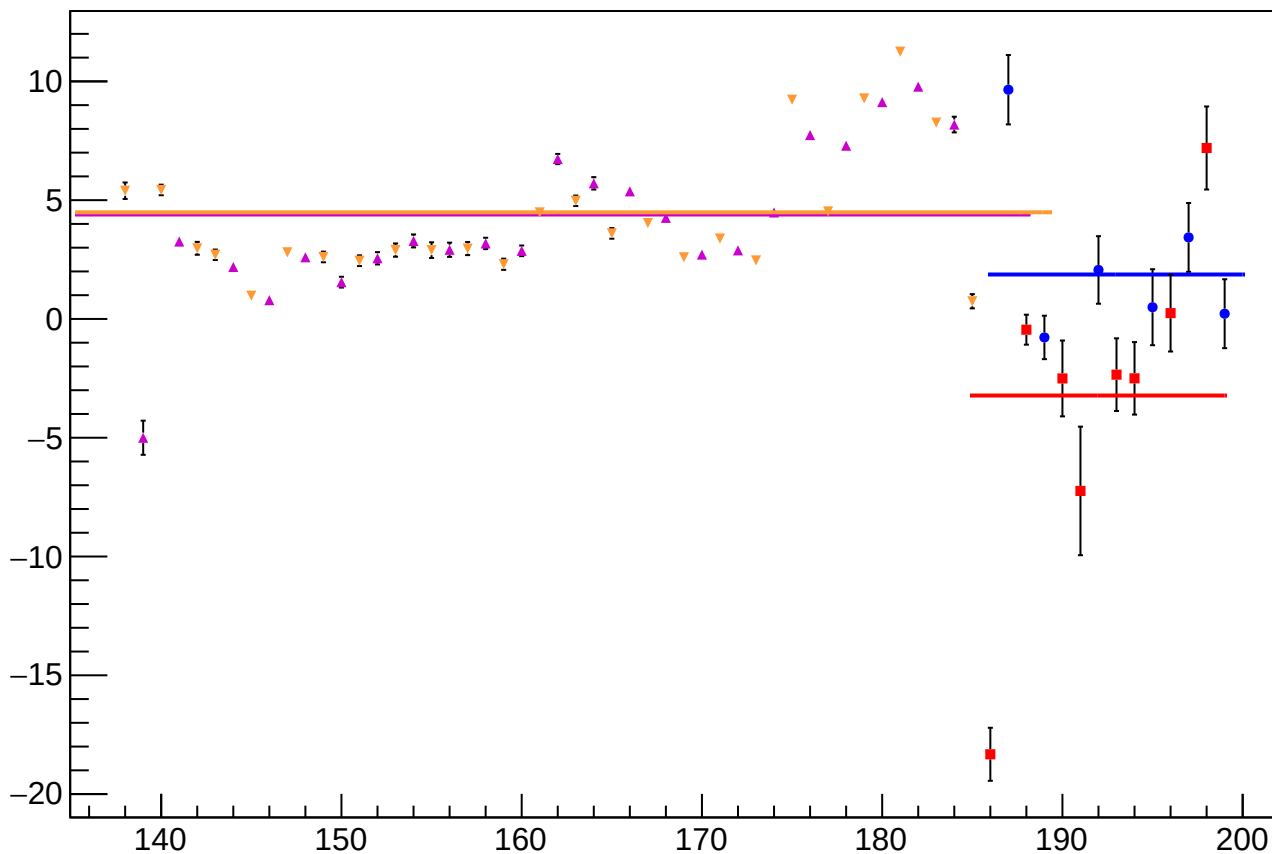
Right: -1.015 ± 0.272 χ^2/NDF : 9719.9/13

In: -9.895 ± 0.051 χ^2/NDF : 10327.8/28

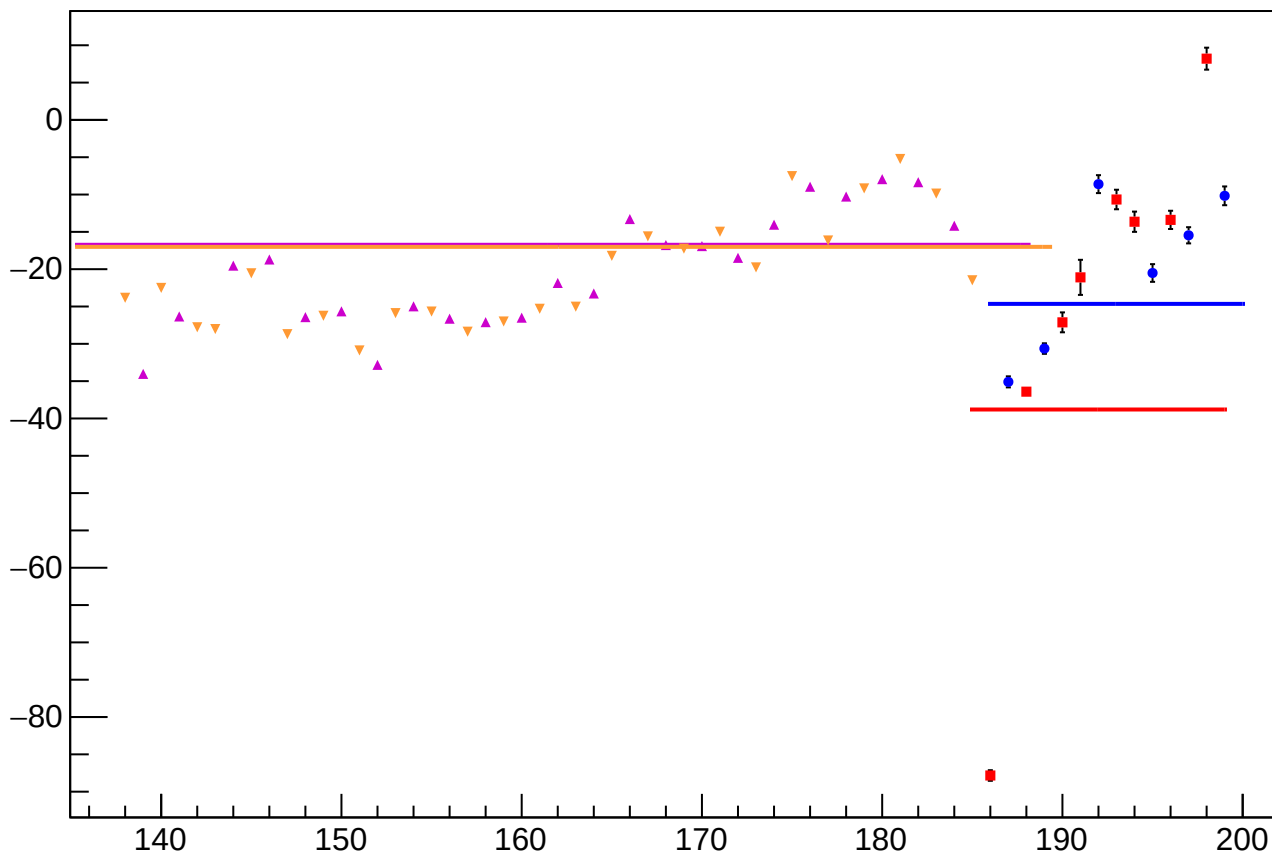
Out: -9.685 ± 0.050 χ^2/NDF : 22344.3/32

All: -9.788 ± 0.036 χ^2/NDF : 32680.7/61

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



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: -38.799 ± 0.280 $\chi^2/\text{NDF}: 7191.4/7$
 Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$

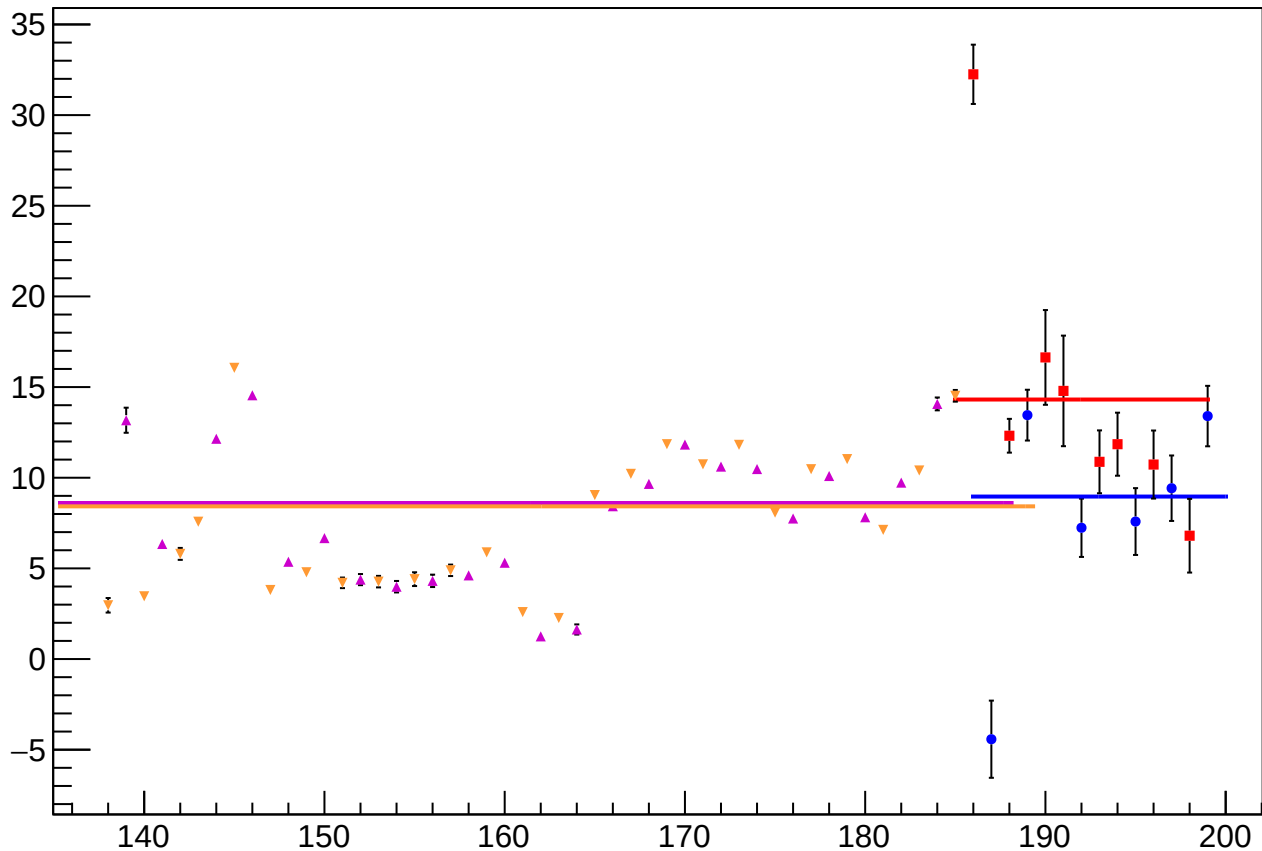
Right: -33.912 ± 0.227 $\chi^2/\text{NDF}: 8735.7/13$

In: -16.870 ± 0.051 $\chi^2/\text{NDF}: 19855.2/28$

Out: -17.708 ± 0.050 $\chi^2/\text{NDF}: 35130.2/32$

All: -17.296 ± 0.036 $\chi^2/\text{NDF}: 55122.2/61$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.962 ± 0.694 $\chi^2/\text{NDF}: 58.7/5$

Left Out: 8.422 ± 0.046 $\chi^2/\text{NDF}: 6470.1/24$

Right Out: 14.313 ± 0.580 $\chi^2/\text{NDF}: 149.0/7$

Left In: 8.606 ± 0.046 $\chi^2/\text{NDF}: 5504.2/22$

Left: 8.513 ± 0.032 $\chi^2/\text{NDF}: 11982.4/47$

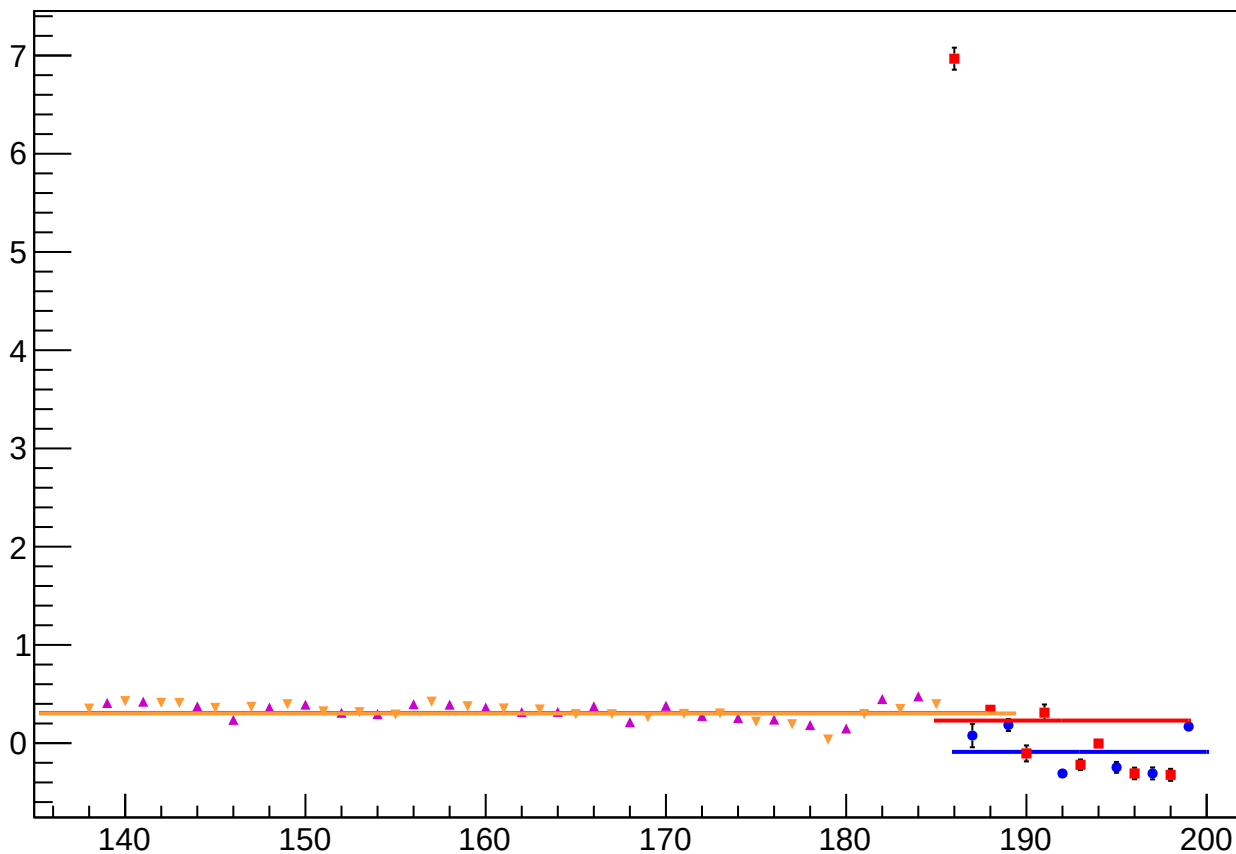
Right: 12.110 ± 0.445 $\chi^2/\text{NDF}: 242.7/13$

In: 8.608 ± 0.046 $\chi^2/\text{NDF}: 5563.2/28$

Out: 8.458 ± 0.045 $\chi^2/\text{NDF}: 6721.6/32$

All: 8.532 ± 0.032 $\chi^2/\text{NDF}: 12290.1/61$

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: 0.230 ± 0.021 χ^2/NDF : 3887.6/7

Left In: 0.307 ± 0.002 χ^2/NDF : 1699.5/22

Left: 0.305 ± 0.001 χ^2/NDF : 3293.0/47

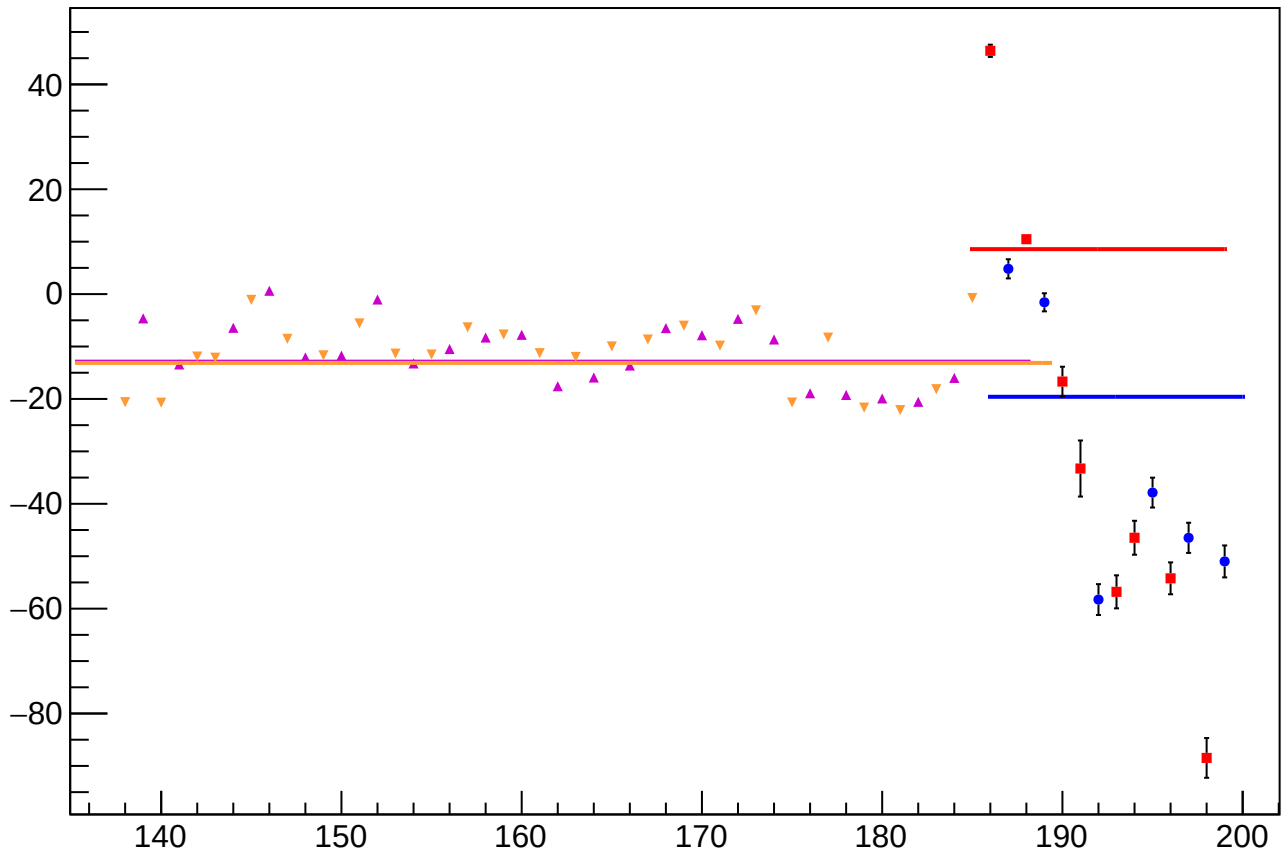
Right: 0.087 ± 0.016 χ^2/NDF : 4076.5/13

In: 0.304 ± 0.002 χ^2/NDF : 2062.9/28

Out: 0.302 ± 0.002 χ^2/NDF : 5489.9/32

All: 0.303 ± 0.001 χ^2/NDF : 7553.3/61

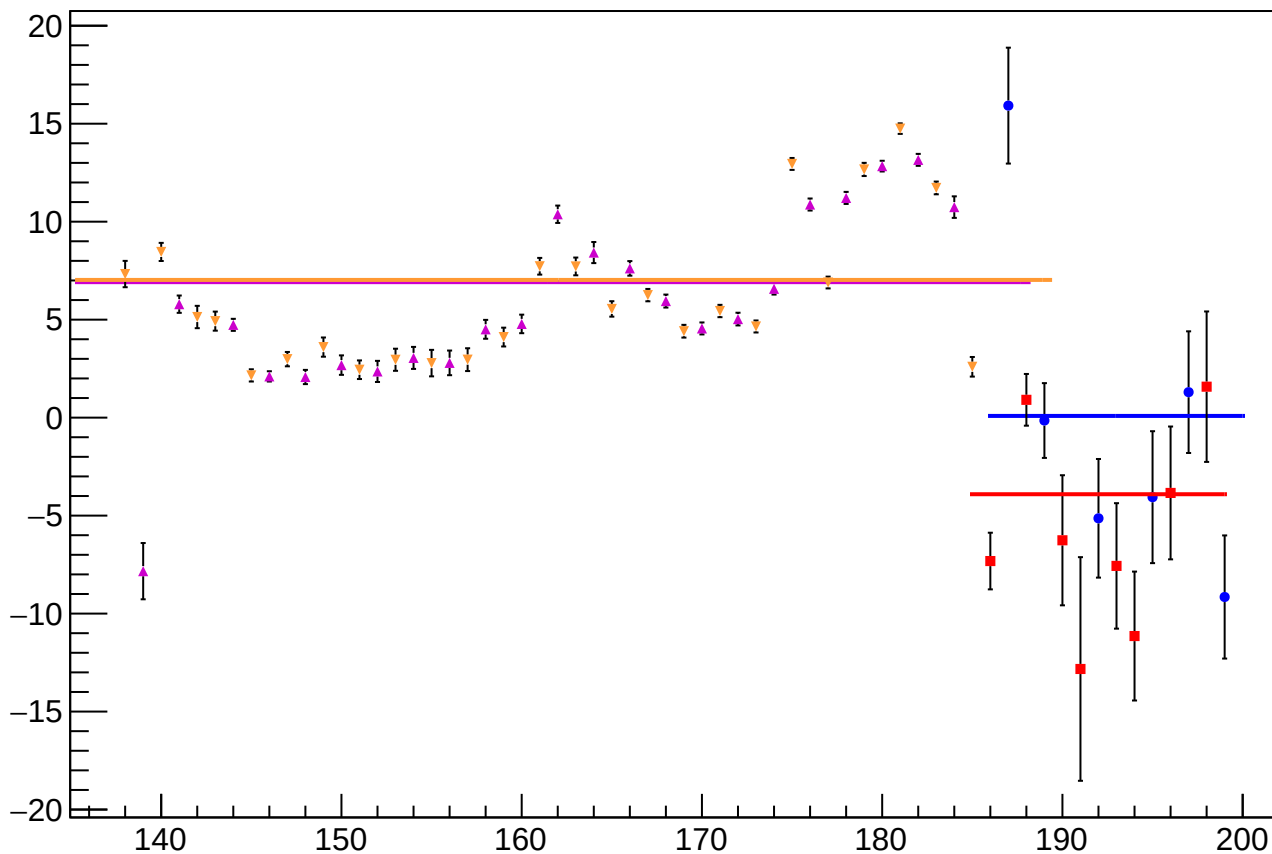
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.587 ± 0.953 $\chi^2/\text{NDF}: 694.7/5$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: 8.576 ± 0.643 $\chi^2/\text{NDF}: 2997.5/7$
 Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$
 Right: -0.237 ± 0.533 $\chi^2/\text{NDF}: 4292.7/13$
 In: -12.952 ± 0.095 $\chi^2/\text{NDF}: 5519.8/28$
 Out: -12.674 ± 0.093 $\chi^2/\text{NDF}: 10090.8/32$
 All: -12.810 ± 0.066 $\chi^2/\text{NDF}: 15615.0/61$

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: -3.909 ± 0.811 $\chi^2/\text{NDF}: 30.0/7$

Left In: 6.914 ± 0.078 $\chi^2/\text{NDF}: 2428.2/22$

Left: 6.971 ± 0.055 $\chi^2/\text{NDF}: 5094.6/47$

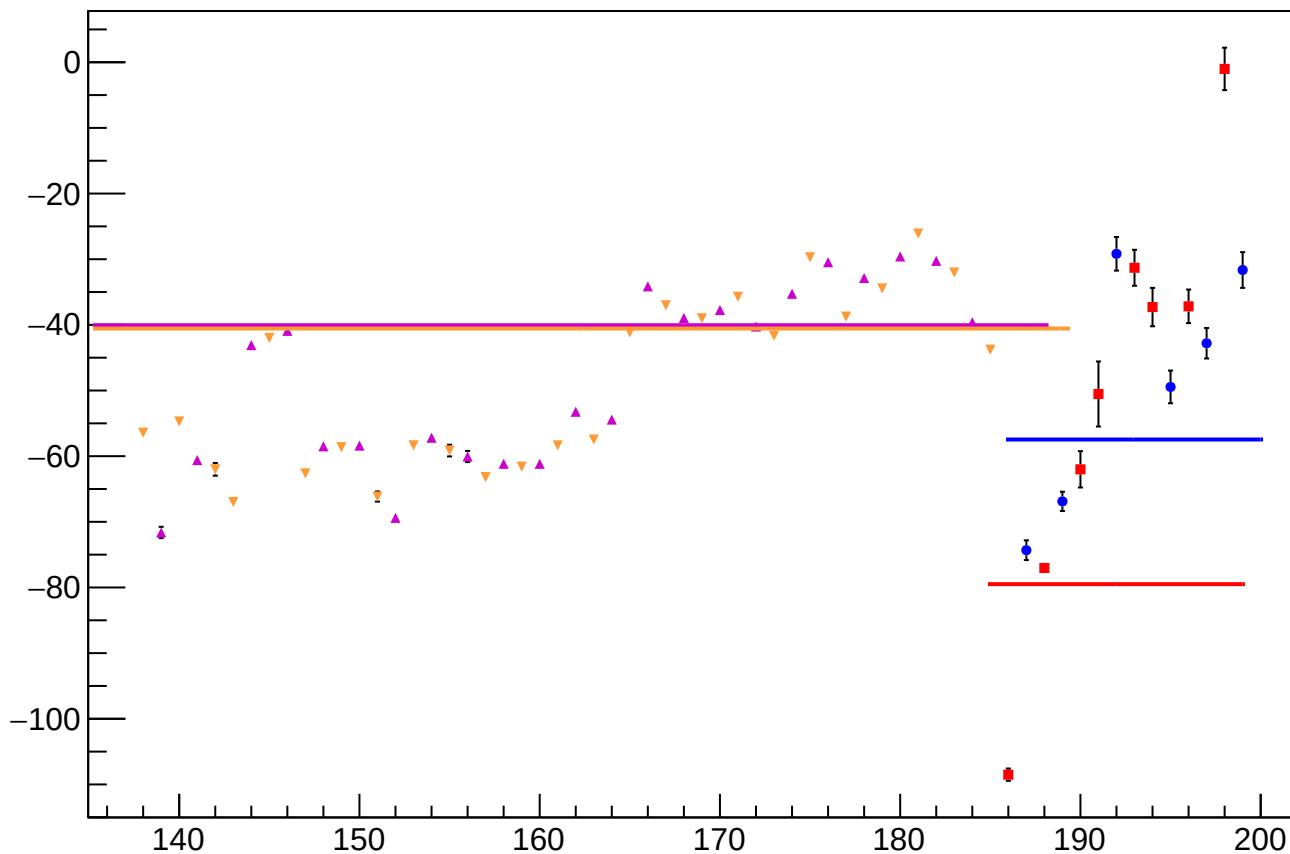
Right: -2.540 ± 0.658 $\chi^2/\text{NDF}: 80.3/13$

In: 6.881 ± 0.078 $\chi^2/\text{NDF}: 2506.9/28$

Out: 6.930 ± 0.077 $\chi^2/\text{NDF}: 2875.4/32$

All: 6.906 ± 0.055 $\chi^2/\text{NDF}: 5382.5/61$

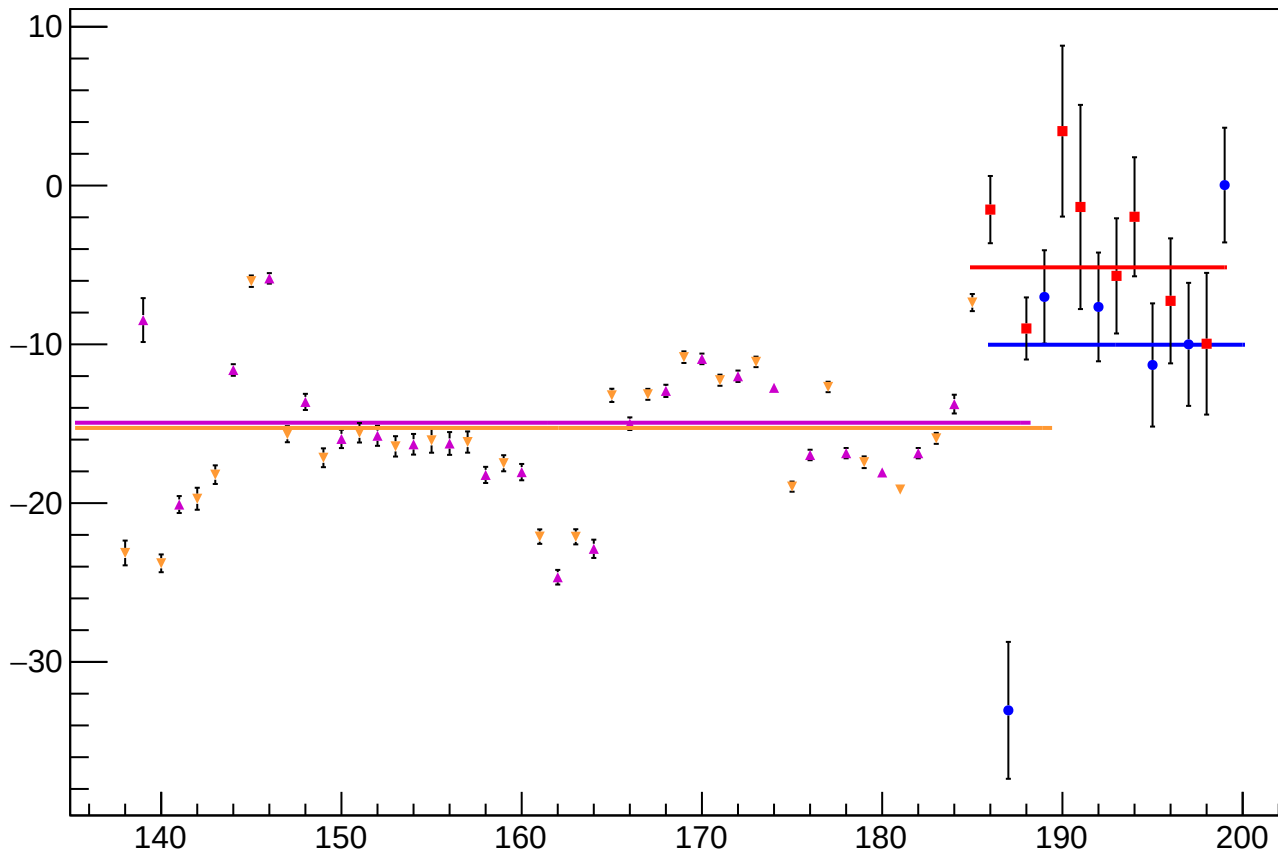
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.462 $\pm$ 0.806 χ^2 /NDF: 428.9/5
 Left Out: -40.563 $\pm$ 0.095 χ^2 /NDF:15637.6/24
 Right Out: -79.495 $\pm$ 0.528 χ^2 /NDF: 2426.3/7
 Left In: -40.053 $\pm$ 0.096 χ^2 /NDF:13927.3/22

Left: -40.310 $\pm$ 0.067 χ^2 /NDF: 29579.2/47
 Right: -72.876 $\pm$ 0.442 χ^2 /NDF: 3377.7/13
 In: -40.295 $\pm$ 0.095 χ^2 /NDF:14816.0/28
 Out: -41.775 $\pm$ 0.093 χ^2 /NDF:23325.0/32
 All: -41.049 $\pm$ 0.067 χ^2 /NDF: 38264.7/61

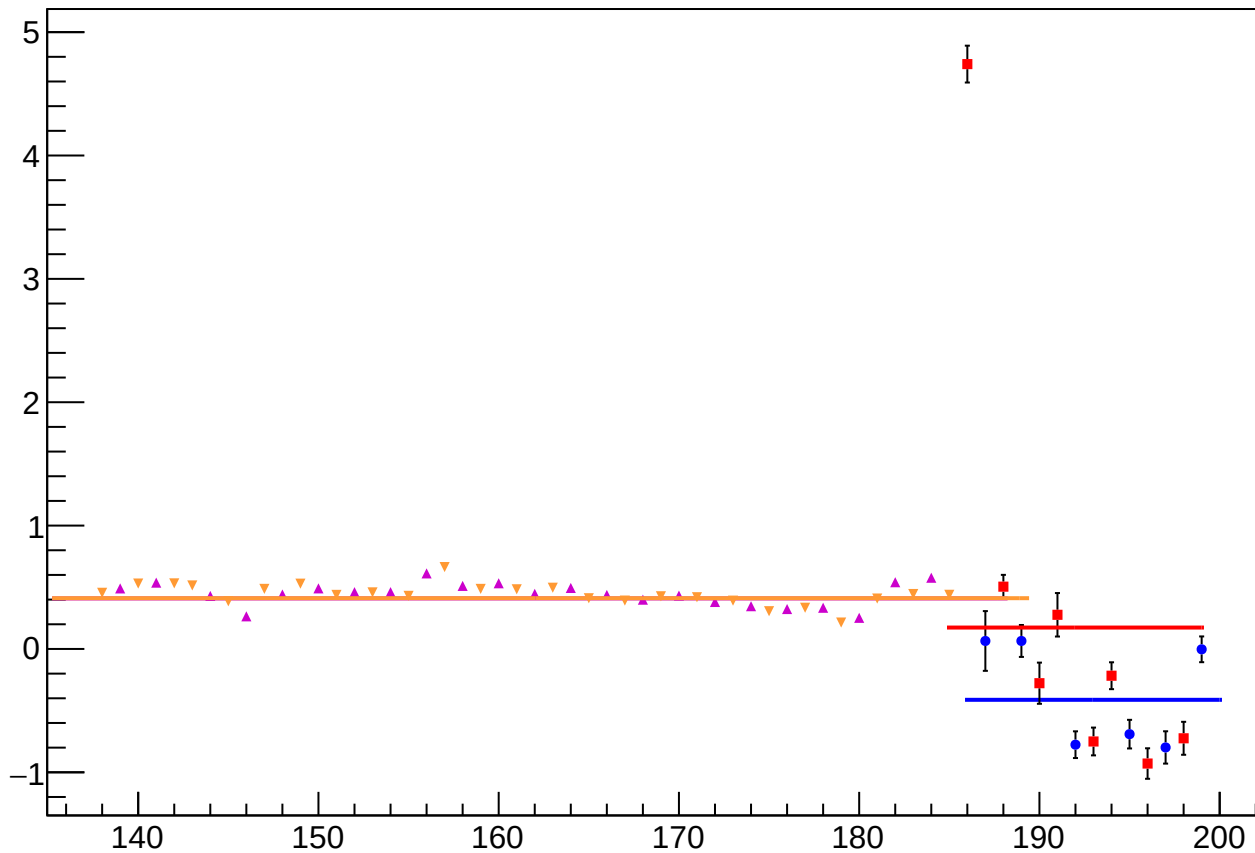
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.025 ± 1.467 $\chi^2/\text{NDF}: 37.9/5$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -5.151 ± 1.114 $\chi^2/\text{NDF}: 11.9/7$
 Left In: -14.936 ± 0.087 $\chi^2/\text{NDF}: 2199.7/22$

Left: -15.103 ± 0.061 $\chi^2/\text{NDF}: 4802.4/47$
 Right: -6.934 ± 0.887 $\chi^2/\text{NDF}: 56.8/13$
 In: -14.919 ± 0.087 $\chi^2/\text{NDF}: 2248.8/28$
 Out: -15.206 ± 0.086 $\chi^2/\text{NDF}: 2689.3/32$
 All: -15.064 ± 0.061 $\chi^2/\text{NDF}: 4943.6/61$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.412 ± 0.051 χ^2/NDF : 58.6/5

Left Out: 0.411 ± 0.004 χ^2/NDF : 428.7/24

Right Out: 0.173 ± 0.044 χ^2/NDF : 1159.4/7

Left In: 0.409 ± 0.004 χ^2/NDF : 557.8/22

Left: 0.410 ± 0.003 χ^2/NDF : 986.7/47

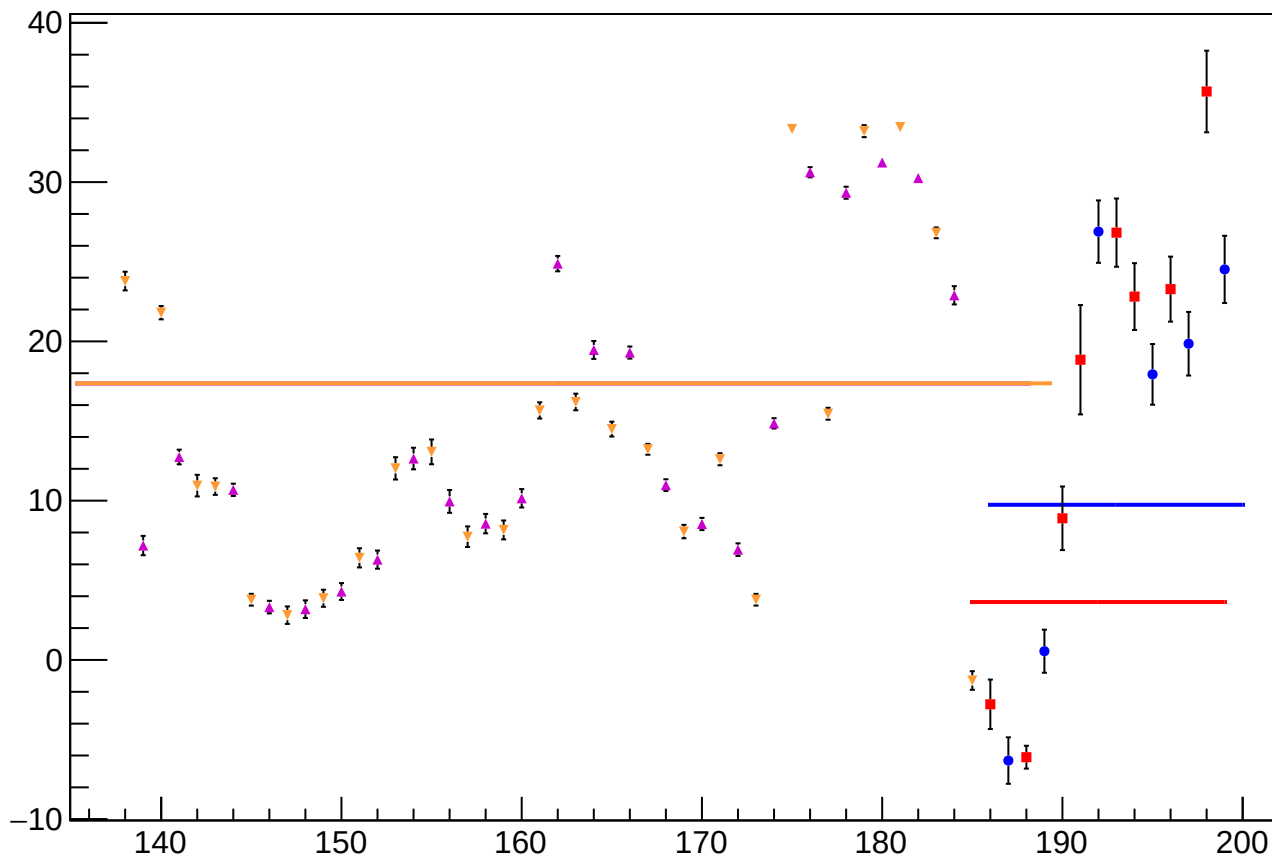
Right: -0.080 ± 0.033 χ^2/NDF : 1293.1/13

In: 0.404 ± 0.004 χ^2/NDF : 875.6/28

Out: 0.410 ± 0.004 χ^2/NDF : 1616.5/32

All: 0.407 ± 0.003 χ^2/NDF : 2493.0/61

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: 3.635 ± 0.532 $\chi^2/\text{NDF}: 678.2/7$

Left In: 17.355 ± 0.089 $\chi^2/\text{NDF}: 12745.1/22$

Left: 17.361 ± 0.062 $\chi^2/\text{NDF}: 29082.8/47$

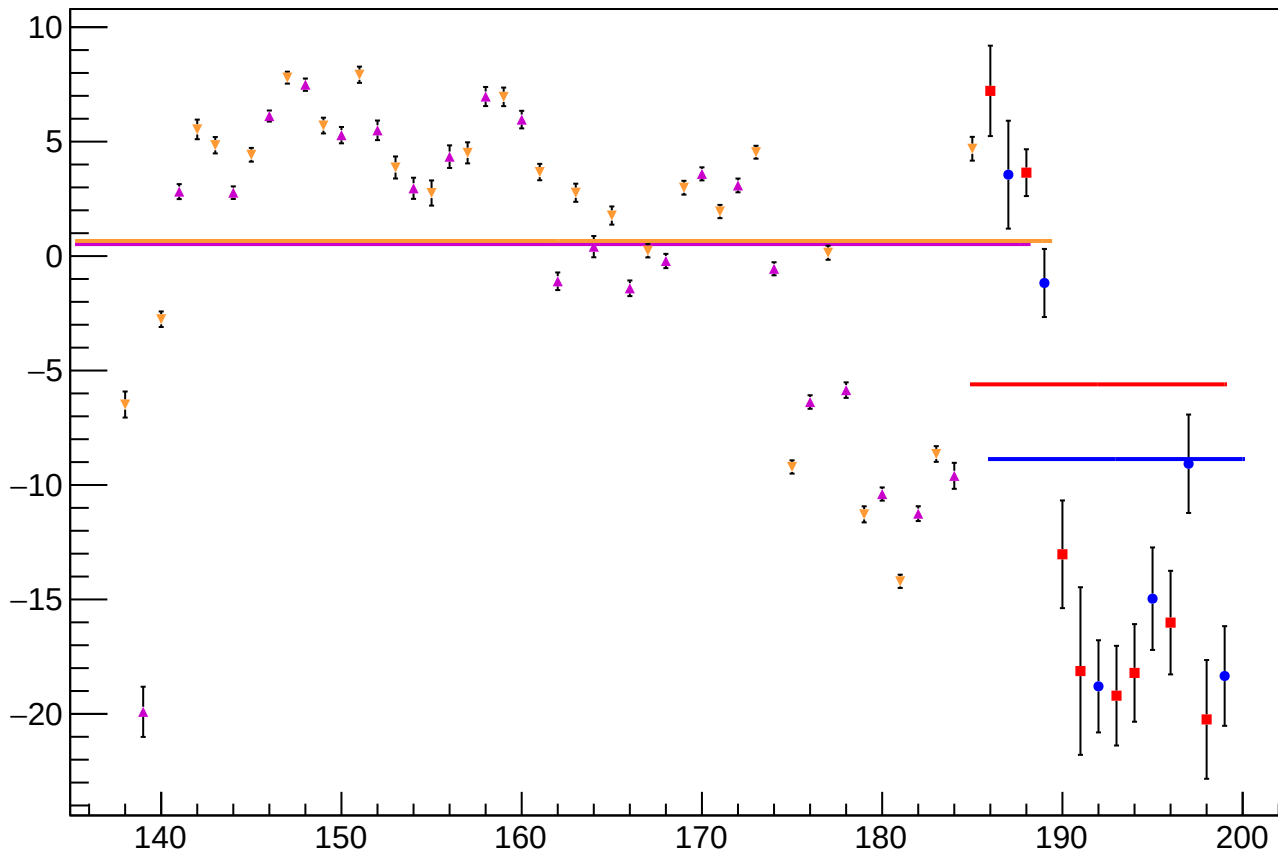
Right: 5.862 ± 0.424 $\chi^2/\text{NDF}: 1063.5/13$

In: 17.235 ± 0.088 $\chi^2/\text{NDF}: 13198.1/28$

Out: 17.009 ± 0.086 $\chi^2/\text{NDF}: 17664.8/32$

All: 17.119 ± 0.062 $\chi^2/\text{NDF}: 30866.3/61$

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: -5.603 $\pm$ 0.668 χ^2 /NDF: 272.5/7

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

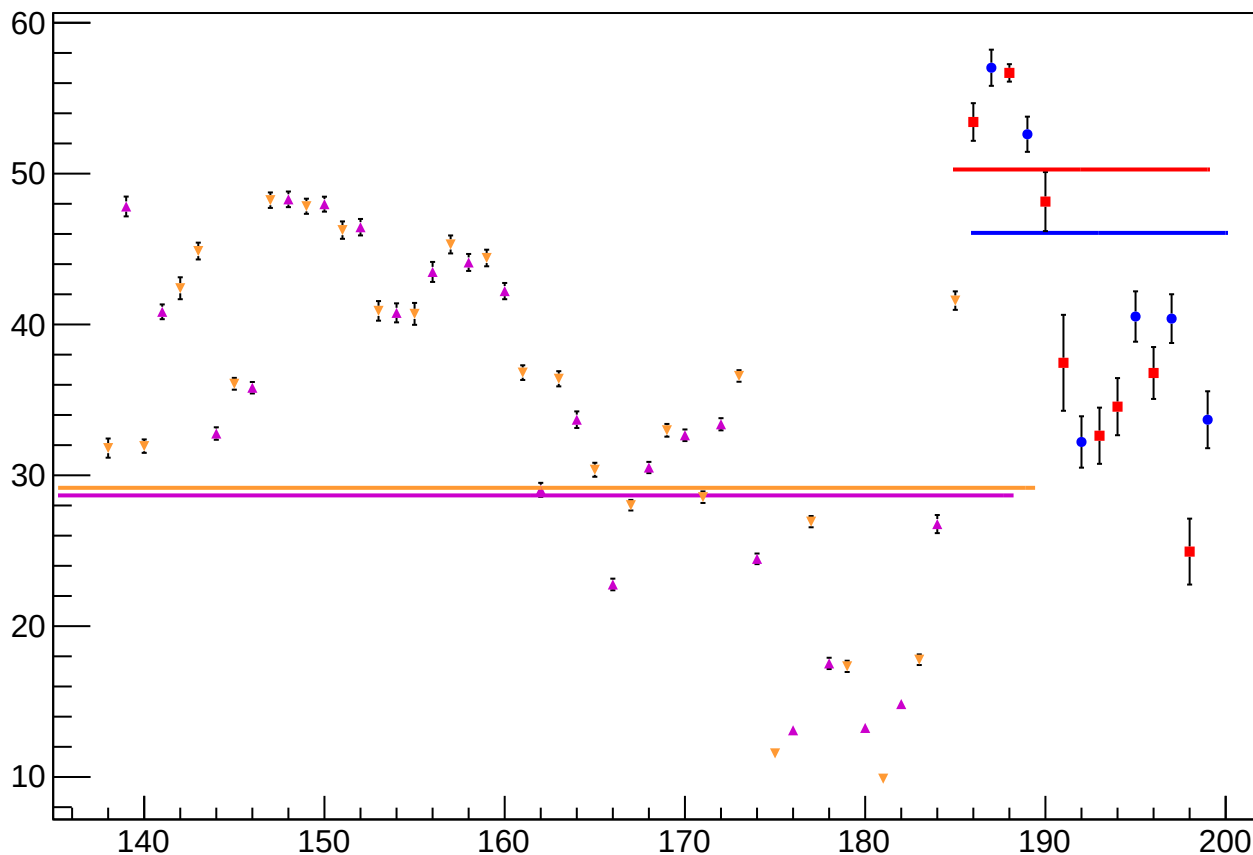
Right: -6.914 $\pm$ 0.517 χ^2 /NDF: 387.3/13

In: 0.454 $\pm$ 0.071 χ^2 /NDF:6966.7/28

Out: 0.594 $\pm$ 0.069 χ^2 /NDF:8913.4/32

All: 0.525 $\pm$ 0.049 χ^2 /NDF: 15882.1/61

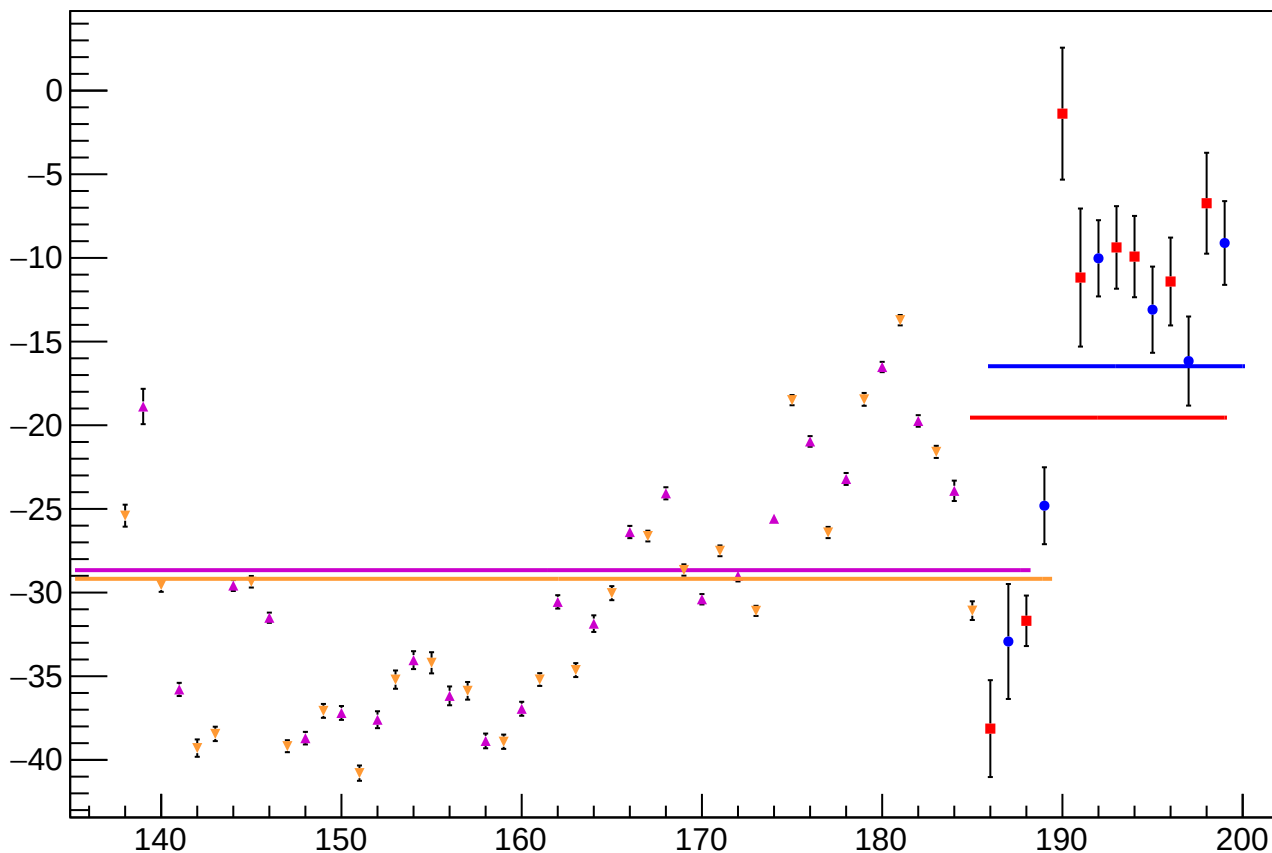
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 46.071 ± 0.598 χ^2/NDF : 247.5/5
 Left Out: 29.171 ± 0.088 χ^2/NDF : 18974.7/24
 Right Out: 50.274 ± 0.443 χ^2/NDF : 500.8/7
 Left In: 28.667 ± 0.089 χ^2/NDF : 16847.2/22

Left: 28.923 ± 0.063 χ^2/NDF : 35838.1/47
 Right: 48.786 ± 0.356 χ^2/NDF : 780.2/13
 In: 29.045 ± 0.088 χ^2/NDF : 17923.6/28
 Out: 29.969 ± 0.086 χ^2/NDF : 21662.3/32
 All: 29.518 ± 0.062 χ^2/NDF : 39642.2/61

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: -19.544 ± 0.887 $\chi^2/\text{NDF}: 191.6/7$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$

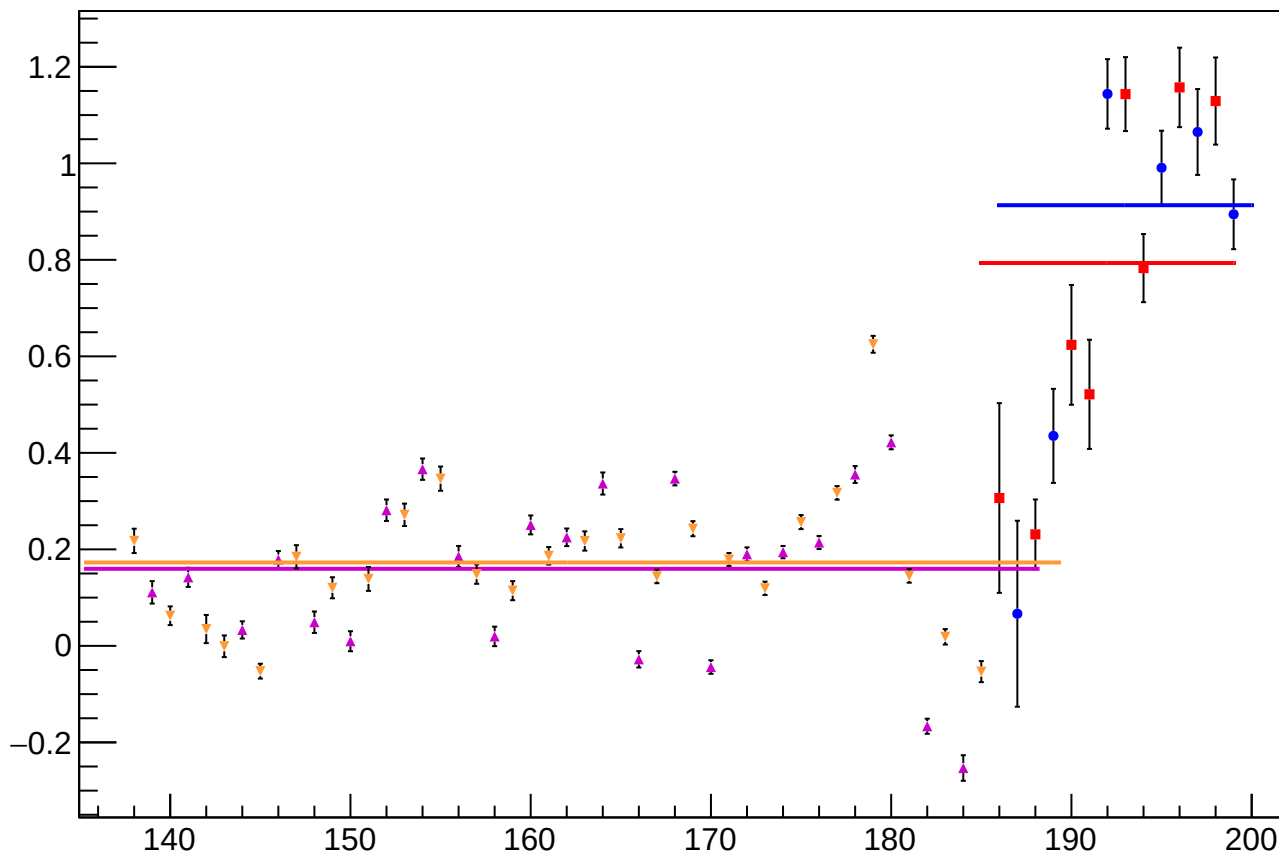
Right: -18.255 ± 0.676 $\chi^2/\text{NDF}: 251.2/13$

In: -28.589 ± 0.080 $\chi^2/\text{NDF}: 6860.2/28$

Out: -29.104 ± 0.078 $\chi^2/\text{NDF}: 9390.0/32$

All: -28.852 ± 0.056 $\chi^2/\text{NDF}: 16271.6/61$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.913 ± 0.035 $\chi^2/\text{NDF}: 57.6/5$

Left Out: 0.173 ± 0.004 $\chi^2/\text{NDF}: 1478.5/24$

Right Out: 0.793 ± 0.032 $\chi^2/\text{NDF}: 128.5/7$

Left In: 0.160 ± 0.004 $\chi^2/\text{NDF}: 2057.9/22$

Left: 0.166 ± 0.003 $\chi^2/\text{NDF}: 3542.9/47$

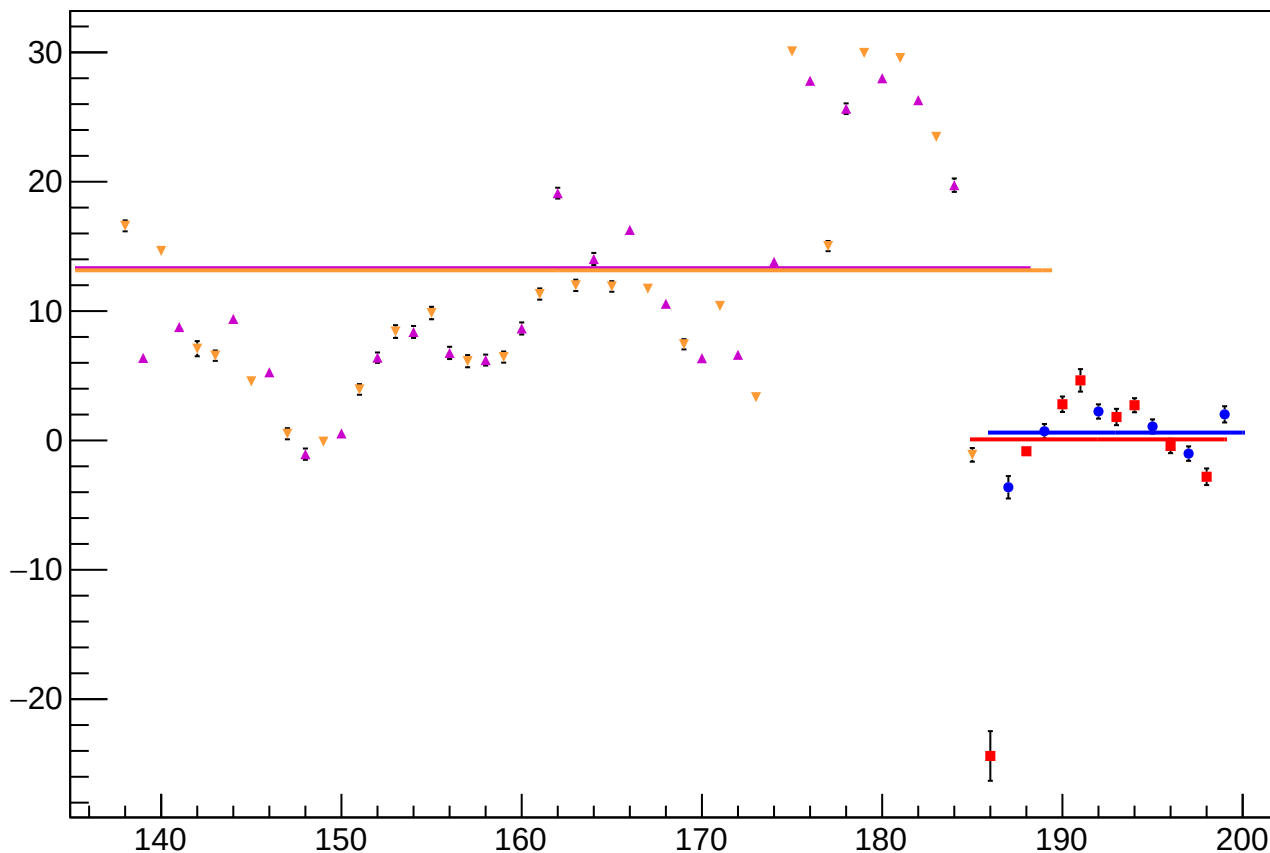
Right: 0.847 ± 0.023 $\chi^2/\text{NDF}: 192.5/13$

In: 0.168 ± 0.004 $\chi^2/\text{NDF}: 2571.5/28$

Out: 0.181 ± 0.004 $\chi^2/\text{NDF}: 1987.6/32$

All: 0.174 ± 0.003 $\chi^2/\text{NDF}: 4565.5/61$

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.607 ± 0.244 χ^2/NDF : 46.6/5

Left Out: 13.153 ± 0.075 χ^2/NDF : 17079.7/24

Right Out: 0.082 ± 0.187 χ^2/NDF : 273.3/7

Left In: 13.315 ± 0.077 χ^2/NDF : 13977.7/22

Left: 13.232 ± 0.054 χ^2/NDF : 31059.6/47

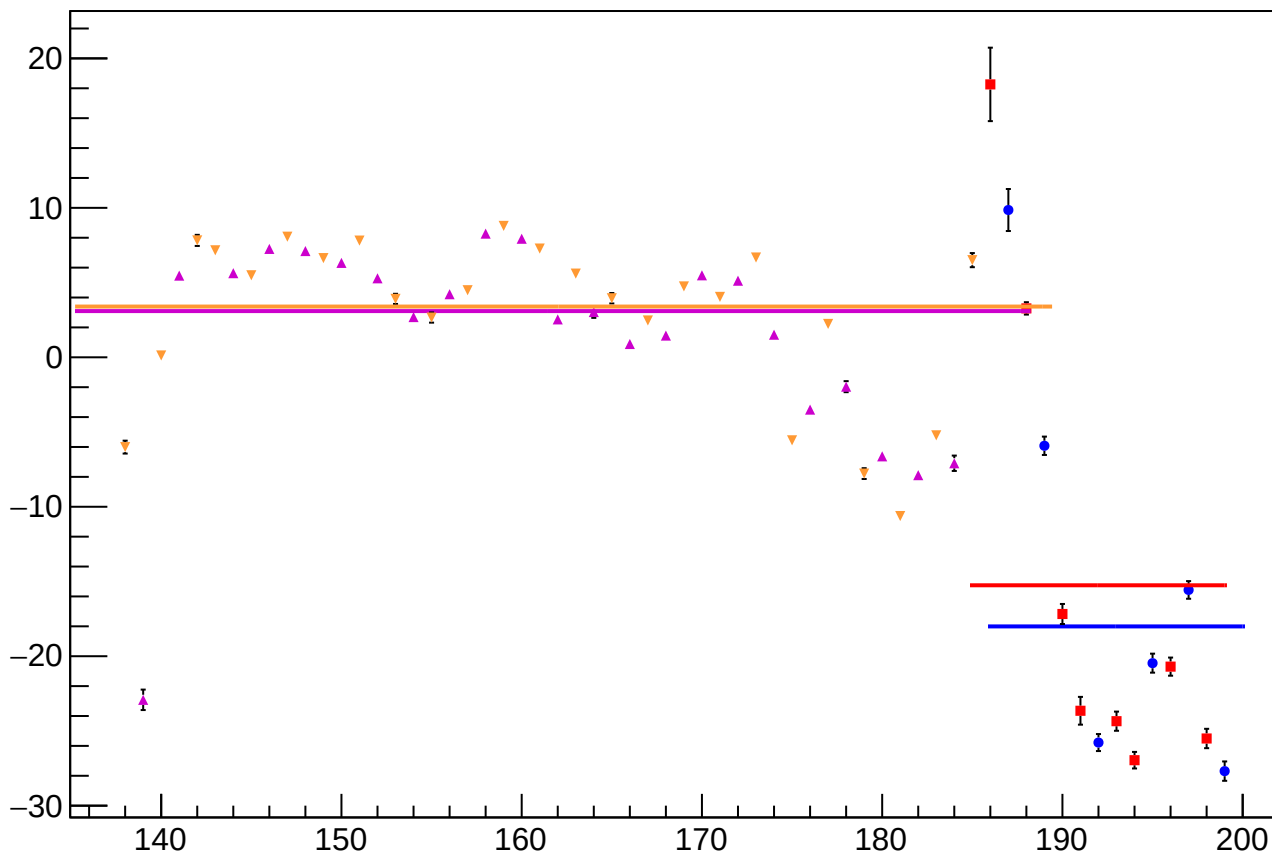
Right: 0.276 ± 0.149 χ^2/NDF : 322.8/13

In: 12.164 ± 0.074 χ^2/NDF : 16485.1/28

Out: 11.337 ± 0.070 χ^2/NDF : 21547.6/32

All: 11.729 ± 0.051 χ^2/NDF : 38099.1/61

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: -15.254 ± 0.223 $\chi^2/\text{NDF}: 3252.4/7$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

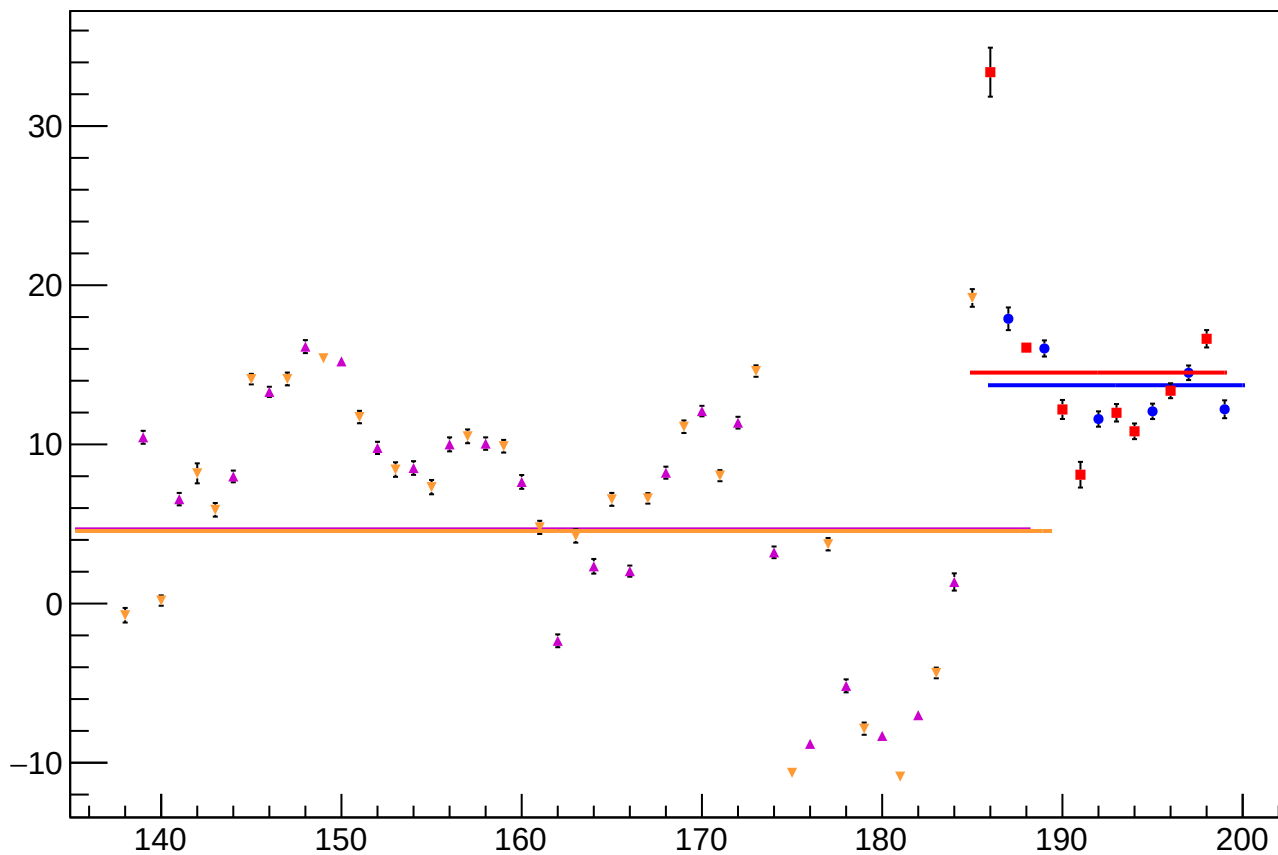
Right: -16.381 ± 0.171 $\chi^2/\text{NDF}: 4537.2/13$

In: 2.063 ± 0.059 $\chi^2/\text{NDF}: 14243.6/28$

Out: 2.197 ± 0.056 $\chi^2/\text{NDF}: 17914.0/32$

All: 2.133 ± 0.041 $\chi^2/\text{NDF}: 32160.3/61$

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: 14.511+/-0.160 χ^2/NDF : 373.9/7

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

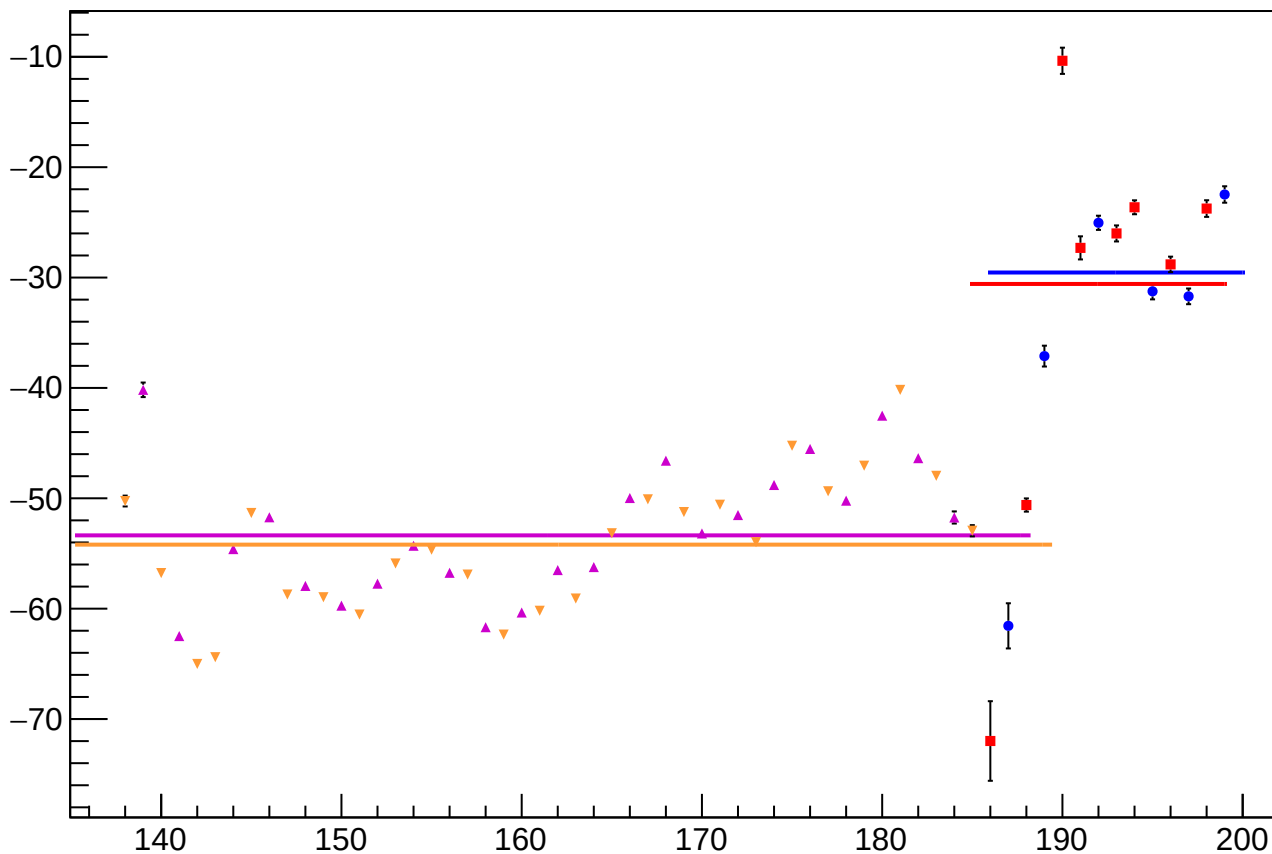
Right: 14.223+/-0.127 χ^2/NDF : 478.8/13

In: 5.715+/-0.072 χ^2/NDF :12993.5/28

Out: 6.375+/-0.068 χ^2/NDF :17141.5/32

All: 6.064+/-0.050 χ^2/NDF : 30179.1/61

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: -30.580 ± 0.281 $\chi^2/\text{NDF}: 1798.7/7$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

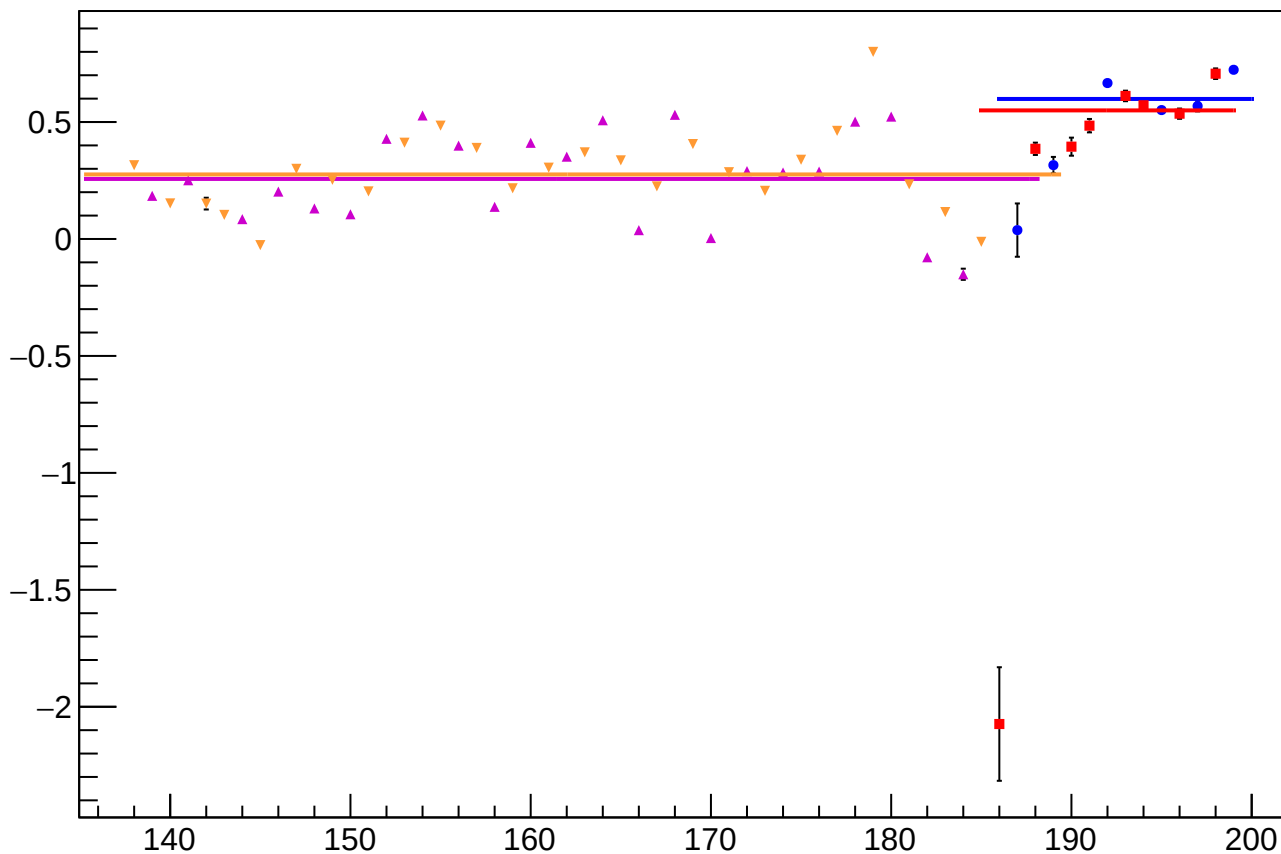
Right: -30.137 ± 0.213 $\chi^2/\text{NDF}: 2267.2/13$

In: -52.349 ± 0.067 $\chi^2/\text{NDF}: 12472.2/28$

Out: -52.949 ± 0.065 $\chi^2/\text{NDF}: 16951.0/32$

All: -52.660 ± 0.047 $\chi^2/\text{NDF}: 29464.8/61$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.599 $\pm$ 0.010 χ^2 /NDF: 140.4/5

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.550 $\pm$ 0.009 χ^2 /NDF: 234.4/7

Left In: 0.257 $\pm$ 0.003 χ^2 /NDF:3623.9/22

Left: 0.266 $\pm$ 0.002 χ^2 /NDF: 6267.0/47

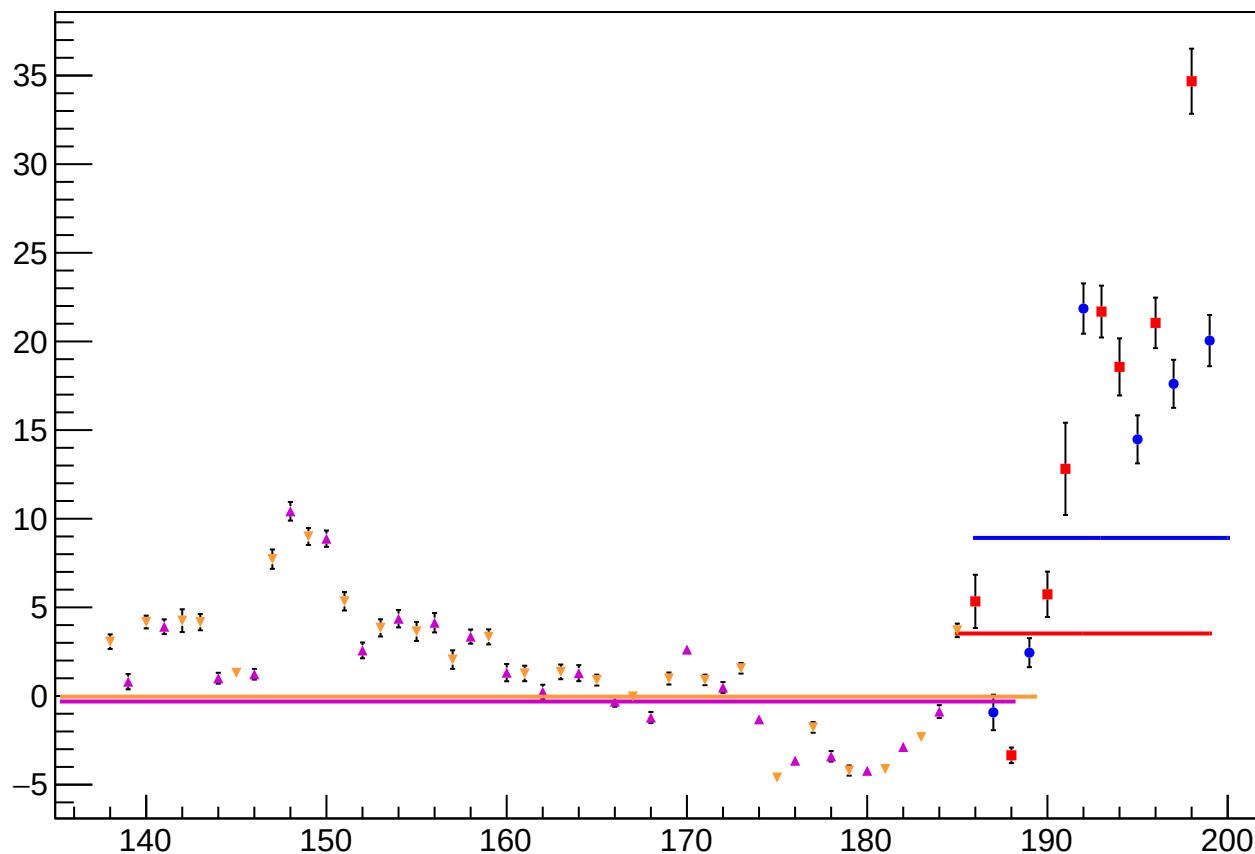
Right: 0.571 $\pm$ 0.007 χ^2 /NDF: 387.7/13

In: 0.285 $\pm$ 0.003 χ^2 /NDF:4784.8/28

Out: 0.304 $\pm$ 0.003 χ^2 /NDF:3686.0/32

All: 0.295 $\pm$ 0.002 χ^2 /NDF: 8490.9/61

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: 3.526 ± 0.353 χ^2/NDF : 942.3/7

Left In: -0.310 ± 0.067 χ^2/NDF : 2250.5/22

Left: -0.171 ± 0.047 χ^2/NDF : 4896.5/47

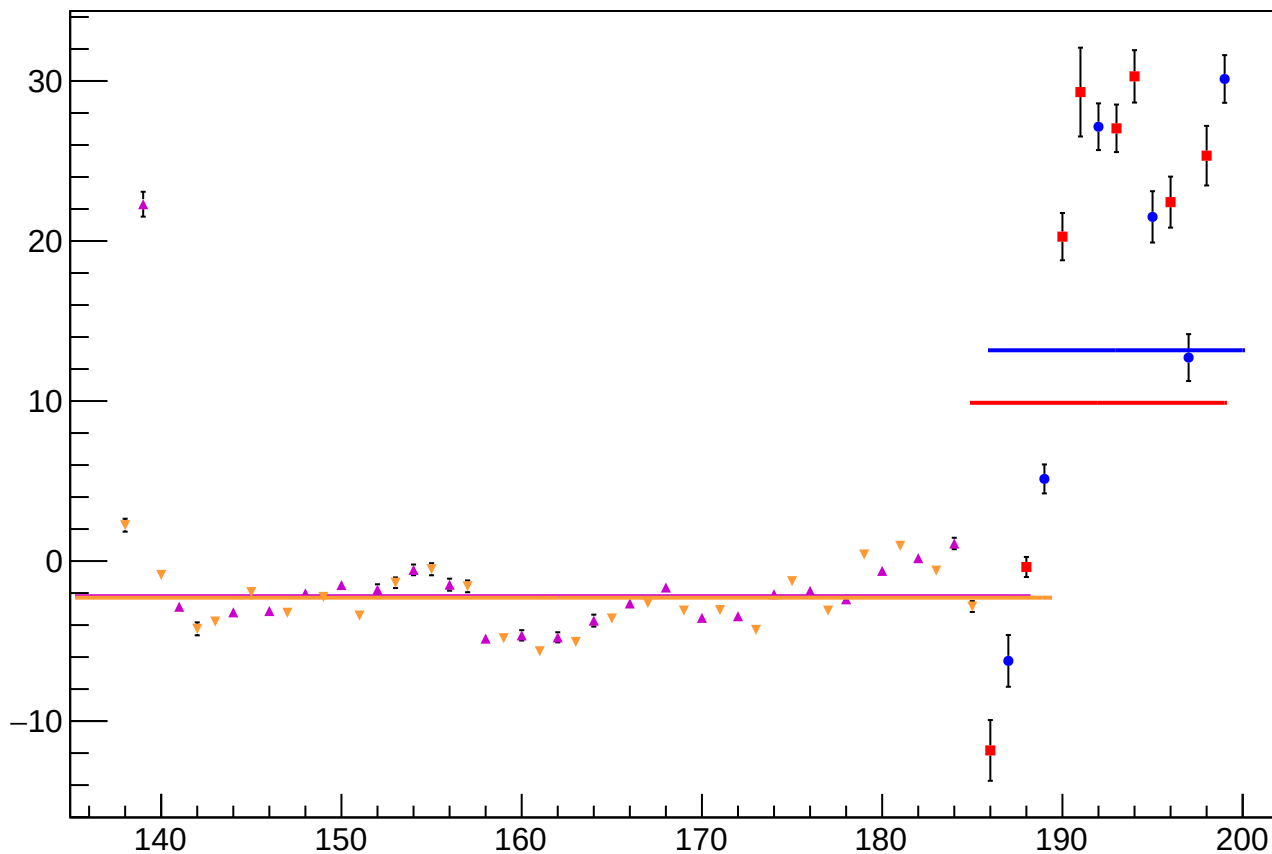
Right: 5.478 ± 0.282 χ^2/NDF : 1386.7/13

In: -0.123 ± 0.067 χ^2/NDF : 2990.5/28

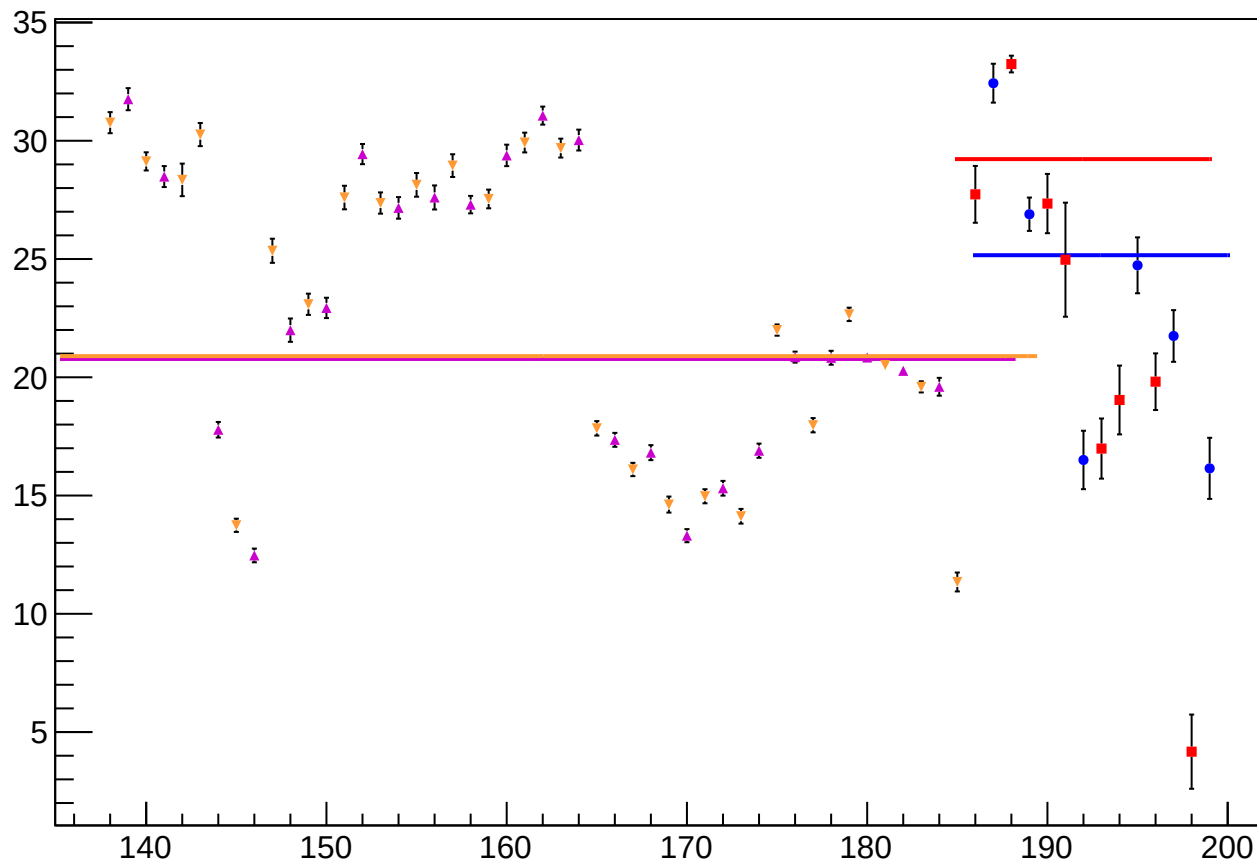
Out: 0.083 ± 0.065 χ^2/NDF : 3678.5/32

All: -0.017 ± 0.046 χ^2/NDF : 6674.0/61

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



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: 29.224 $\pm$ 0.293 χ^2 /NDF: 594.2/7

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

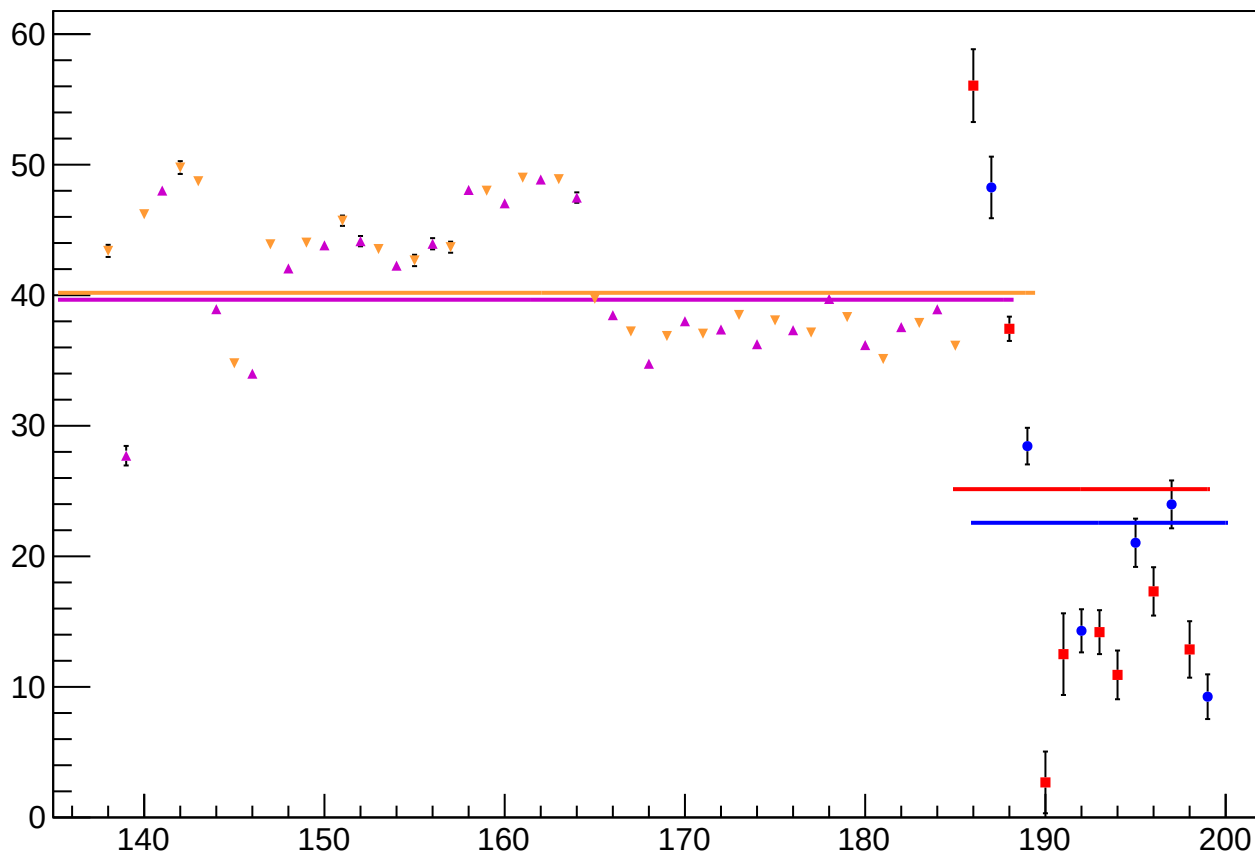
Right: 27.800 $\pm$ 0.236 χ^2 /NDF: 853.8/13

In: 20.897 $\pm$ 0.067 χ^2 /NDF: 6237.8/28

Out: 21.306 $\pm$ 0.065 χ^2 /NDF: 8019.8/32

All: 21.106 $\pm$ 0.047 χ^2 /NDF: 14276.9/61

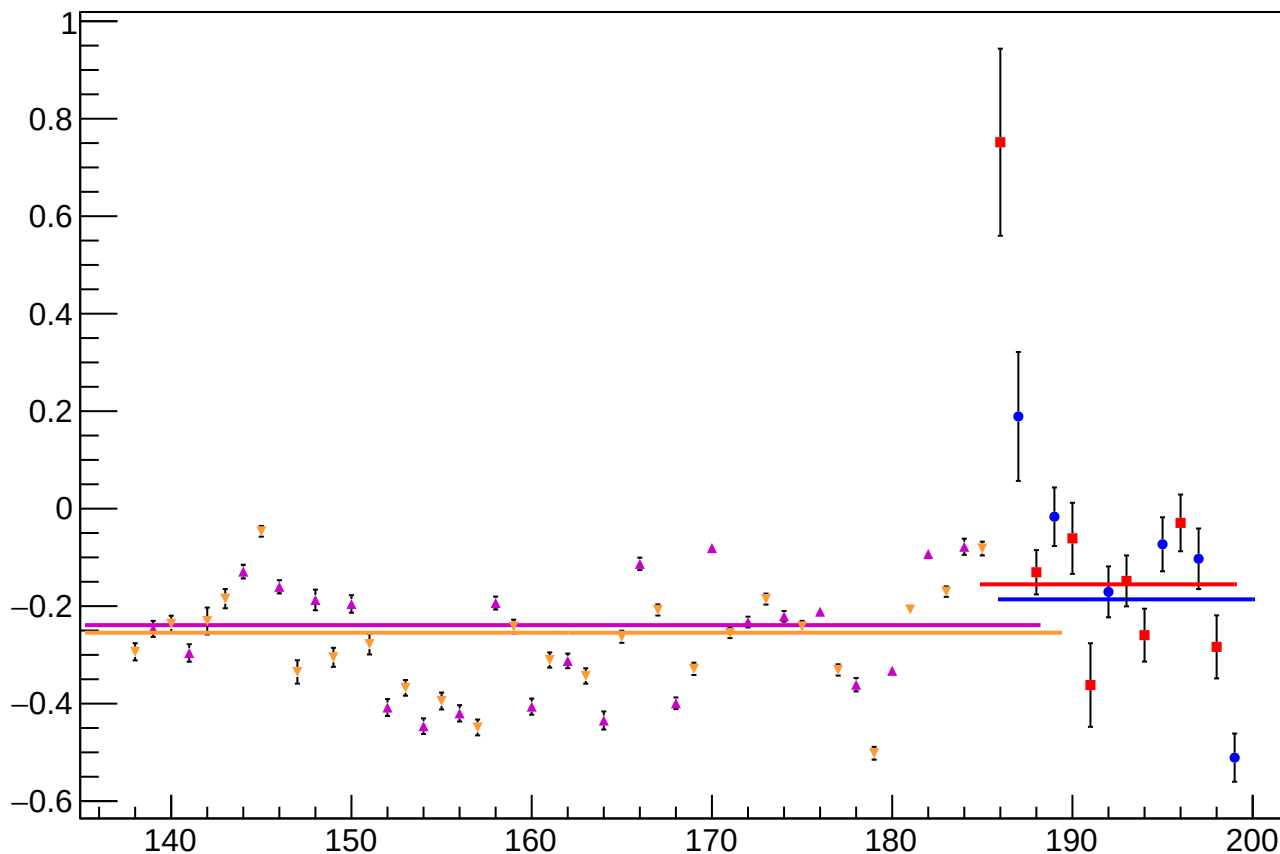
reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.570 ± 0.710 $\chi^2/\text{NDF}: 223.1/5$
 Left Out: 40.186 ± 0.060 $\chi^2/\text{NDF}: 5932.7/24$
 Right Out: 25.147 ± 0.607 $\chi^2/\text{NDF}: 554.4/7$
 Left In: 39.655 ± 0.061 $\chi^2/\text{NDF}: 5298.6/22$

Left: 39.925 ± 0.043 $\chi^2/\text{NDF}: 11269.2/47$
 Right: 24.057 ± 0.461 $\chi^2/\text{NDF}: 785.2/13$
 In: 39.528 ± 0.061 $\chi^2/\text{NDF}: 6097.1/28$
 Out: 40.039 ± 0.060 $\chi^2/\text{NDF}: 7094.3/32$
 All: 39.788 ± 0.043 $\chi^2/\text{NDF}: 13226.9/61$

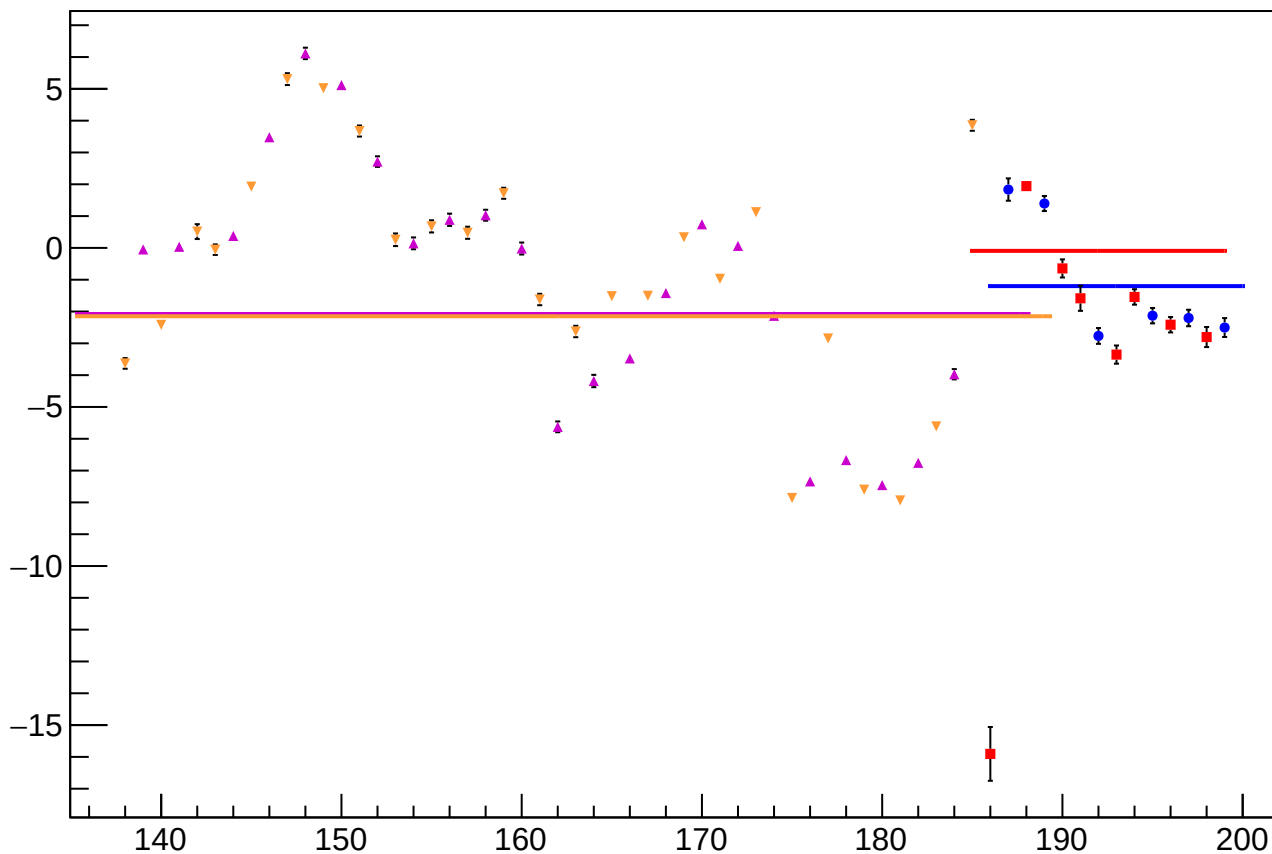
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



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: -0.155 ± 0.022 χ^2/NDF : 42.5/7
 Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47
 Right: -0.169 ± 0.016 χ^2/NDF : 108.4/13
 In: -0.238 ± 0.003 χ^2/NDF : 1820.3/28
 Out: -0.253 ± 0.003 χ^2/NDF : 1483.0/32
 All: -0.246 ± 0.002 χ^2/NDF : 3317.6/61

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

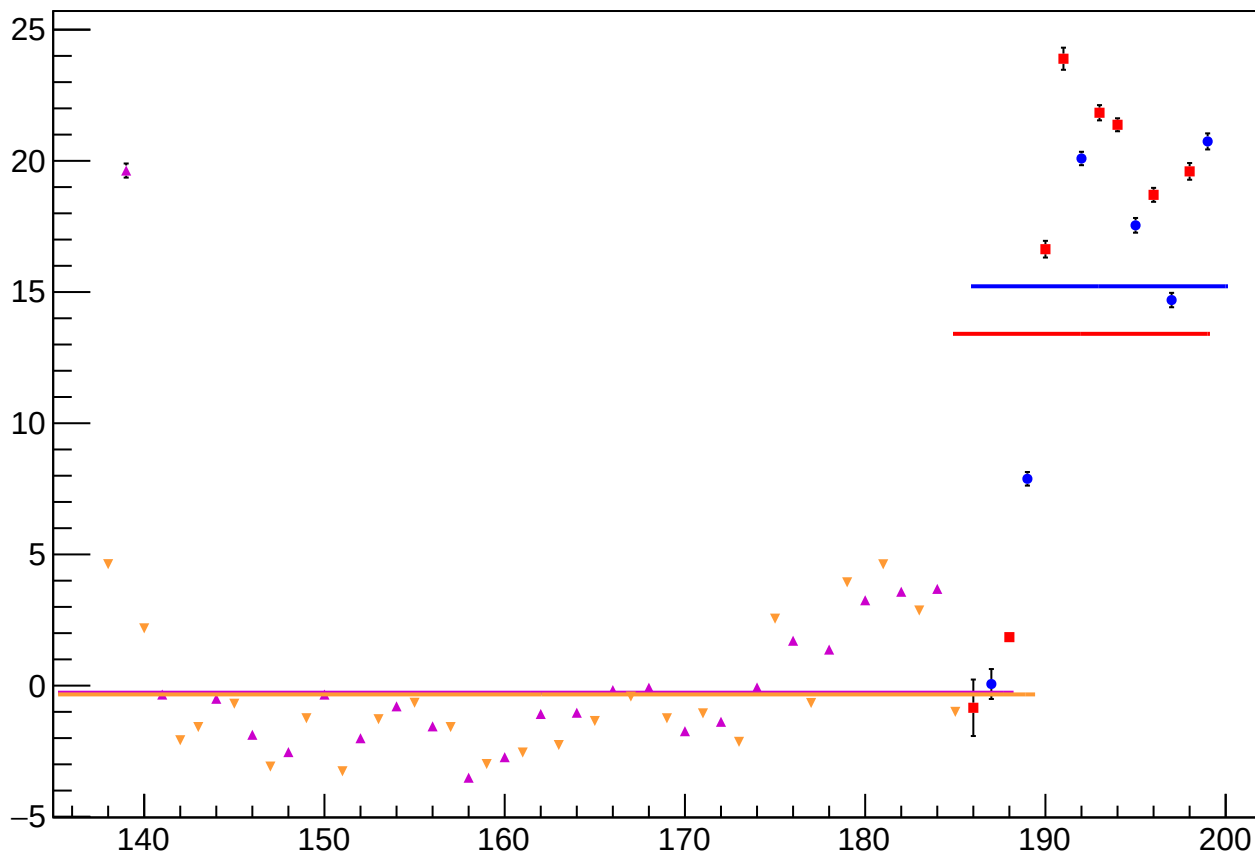


Right In: -1.201 ± 0.108 χ^2/NDF : 282.9/5
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.093 ± 0.079 χ^2/NDF : 1042.7/7
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.479 ± 0.064 χ^2/NDF : 1393.8/13
 In: -2.030 ± 0.025 χ^2/NDF : 23590.6/28
 Out: -1.954 ± 0.024 χ^2/NDF : 26188.8/32

All: -1.990 ± 0.018 χ^2/NDF : 49784.1/61

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: 13.408+/-0.097 χ^2/NDF : 8674.2/7

Left In: -0.269+/-0.021 χ^2/NDF : 13323.1/22

Left: -0.303+/-0.015 χ^2/NDF : 25924.2/47

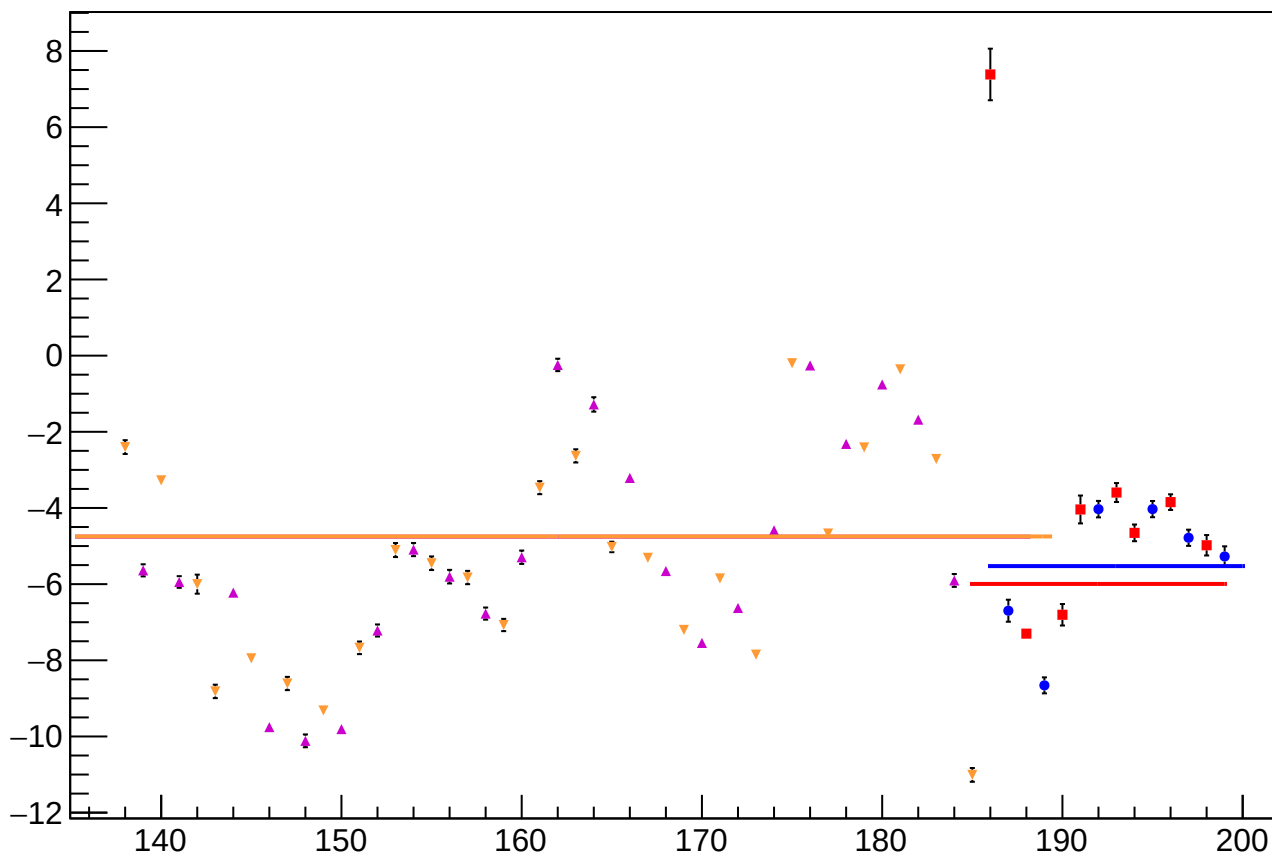
Right: 14.124+/-0.075 χ^2/NDF : 11079.4/13

In: 0.191+/-0.021 χ^2/NDF : 31855.5/28

Out: 0.260+/-0.020 χ^2/NDF : 40573.1/32

All: 0.226+/-0.014 χ^2/NDF : 72434.3/61

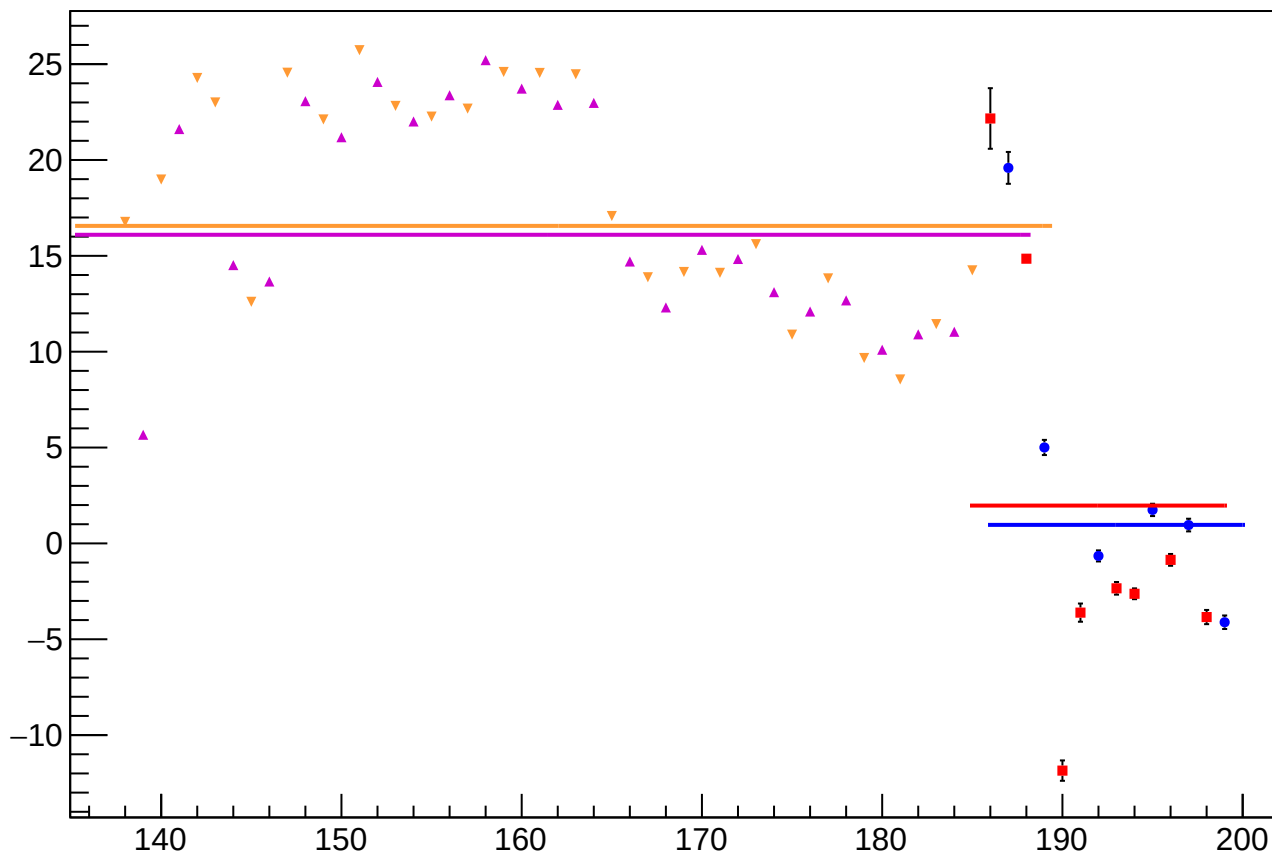
reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.526 ± 0.094 χ^2/NDF : 348.3/5
 Left Out: -4.748 ± 0.026 χ^2/NDF : 13289.8/24
 Right Out: -5.995 ± 0.067 χ^2/NDF : 896.3/7
 Left In: -4.753 ± 0.026 χ^2/NDF : 14119.2/22

Left: -4.751 ± 0.018 χ^2/NDF : 27409.0/47
 Right: -5.836 ± 0.054 χ^2/NDF : 1261.2/13
 In: -4.809 ± 0.025 χ^2/NDF : 14530.8/28
 Out: -4.910 ± 0.024 χ^2/NDF : 14488.0/32
 All: -4.862 ± 0.017 χ^2/NDF : 29027.2/61

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: 1.973 ± 0.123 $\chi^2/\text{NDF}: 4776.7/7$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

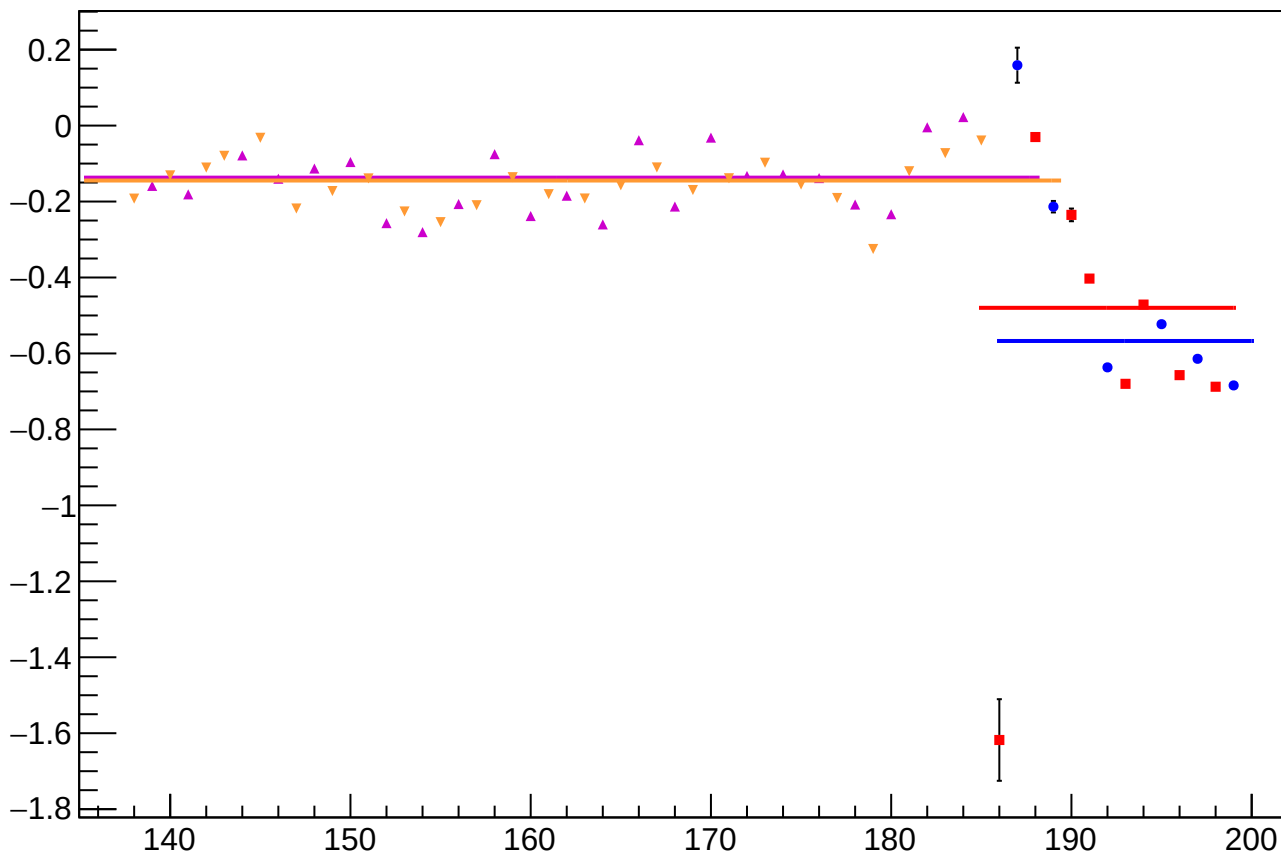
Right: 1.557 ± 0.094 $\chi^2/\text{NDF}: 5655.3/13$

In: 15.716 ± 0.023 $\chi^2/\text{NDF}: 53610.8/28$

Out: 16.063 ± 0.023 $\chi^2/\text{NDF}: 72248.9/32$

All: 15.893 ± 0.016 $\chi^2/\text{NDF}: 125973.2/61$

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: -0.480 ± 0.004 $\chi^2/\text{NDF}: 3296.6/7$

Left In: -0.137 ± 0.001 $\chi^2/\text{NDF}: 5392.6/22$

Left: -0.141 ± 0.001 $\chi^2/\text{NDF}: 9187.6/47$

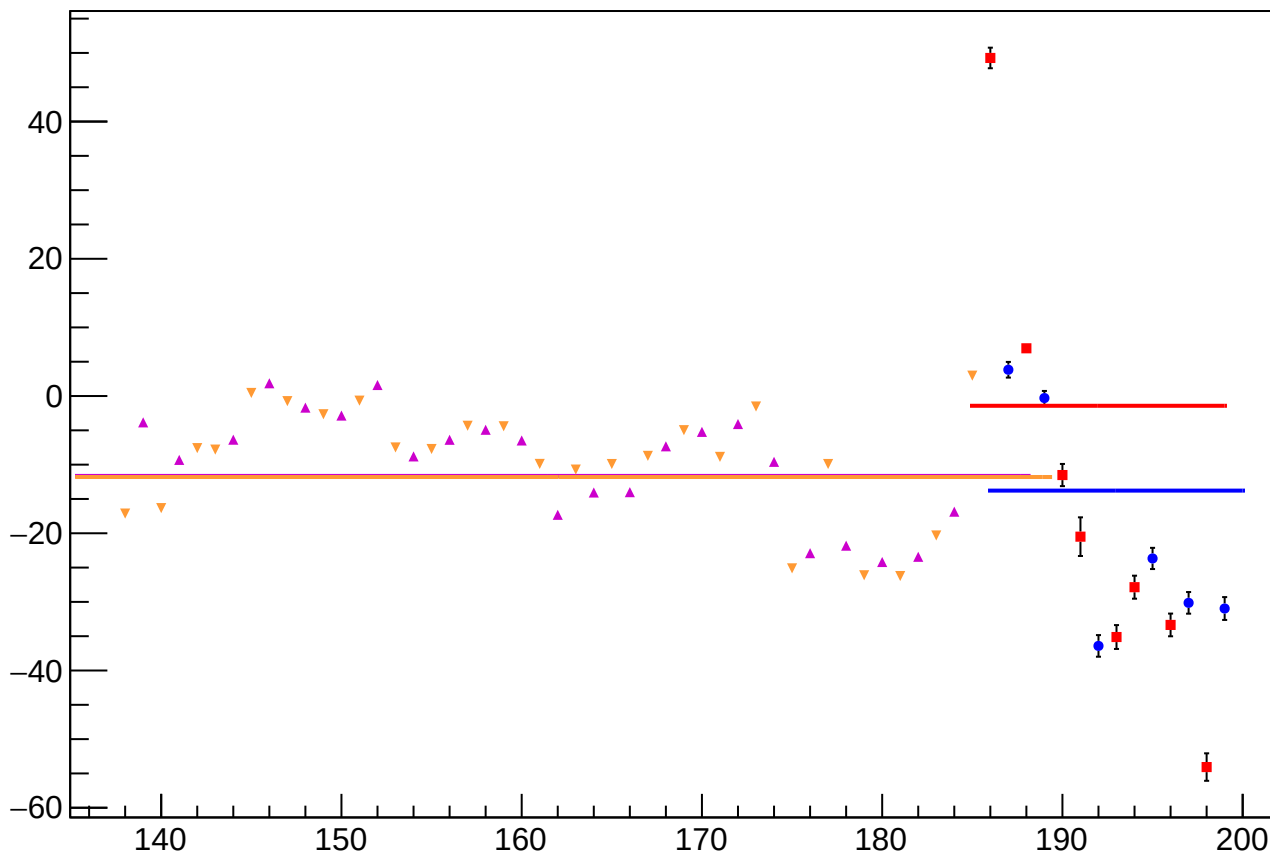
Right: -0.517 ± 0.003 $\chi^2/\text{NDF}: 4523.2/13$

In: -0.159 ± 0.001 $\chi^2/\text{NDF}: 14552.4/28$

Out: -0.166 ± 0.001 $\chi^2/\text{NDF}: 13589.1/32$

All: -0.163 ± 0.001 $\chi^2/\text{NDF}: 28167.7/61$

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: -1.421 ± 0.418 $\chi^2/\text{NDF}: 3158.6/7$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$

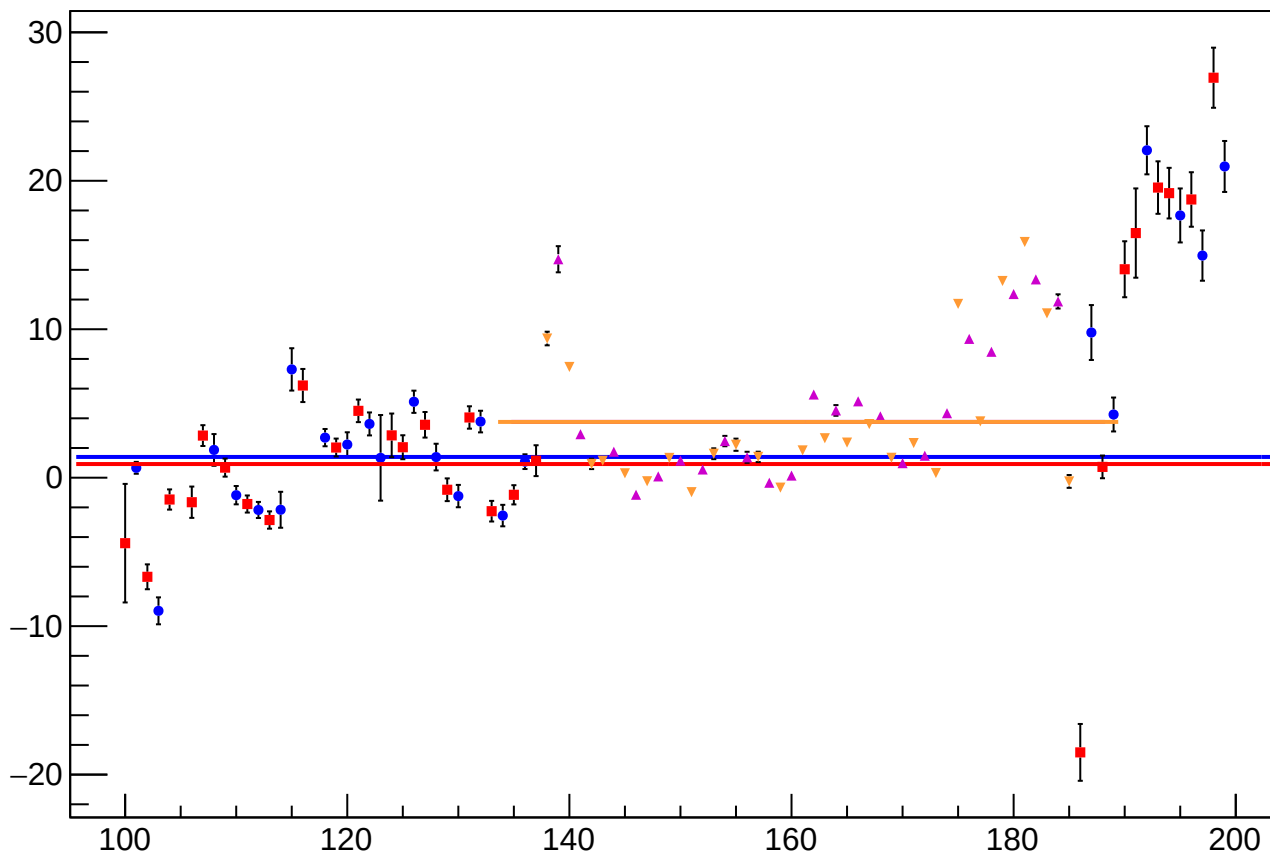
Right: -5.925 ± 0.333 $\chi^2/\text{NDF}: 4345.3/13$

In: -11.677 ± 0.071 $\chi^2/\text{NDF}: 15004.1/28$

Out: -11.516 ± 0.069 $\chi^2/\text{NDF}: 21066.5/32$

All: -11.595 ± 0.050 $\chi^2/\text{NDF}: 36073.3/61$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.397 $\pm$ 0.165 χ^2 /NDF: 776.1/22

Left Out: 3.757 $\pm$ 0.056 χ^2 /NDF:7450.7/24

Right Out: 0.919 $\pm$ 0.166 χ^2 /NDF: 951.5/26

Left In: 3.757 $\pm$ 0.057 χ^2 /NDF:5629.4/22

Left: 3.757 $\pm$ 0.040 χ^2 /NDF: 13080.0/47

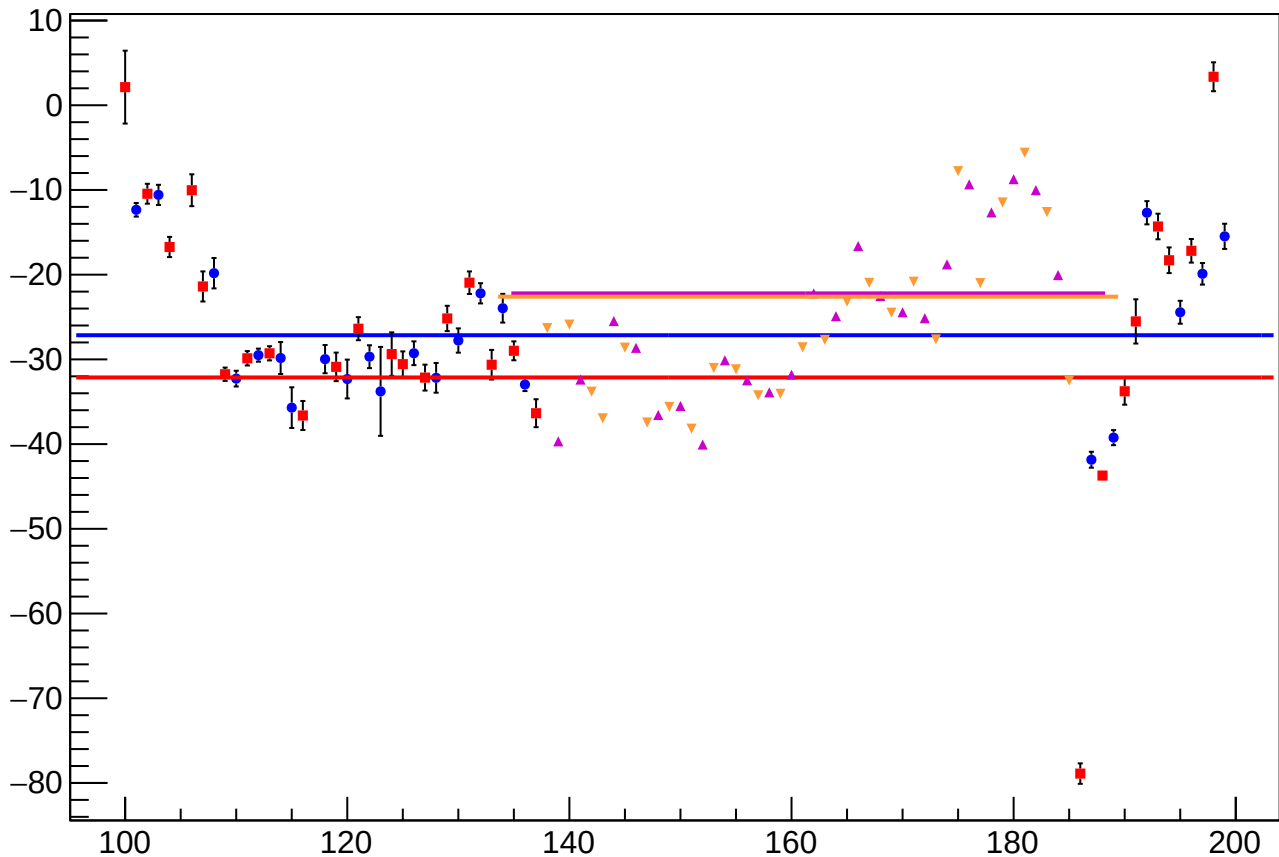
Right: 1.160 $\pm$ 0.117 χ^2 /NDF: 1731.8/49

In: 3.508 $\pm$ 0.054 χ^2 /NDF:6589.0/45

Out: 3.471 $\pm$ 0.053 χ^2 /NDF:8664.9/51

All: 3.489 $\pm$ 0.038 χ^2 /NDF: 15254.1/97

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: -32.132 ± 0.226 $\chi^2/\text{NDF}: 3896.0/26$

Left In: -22.209 ± 0.072 $\chi^2/\text{NDF}: 17627.4/22$

Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

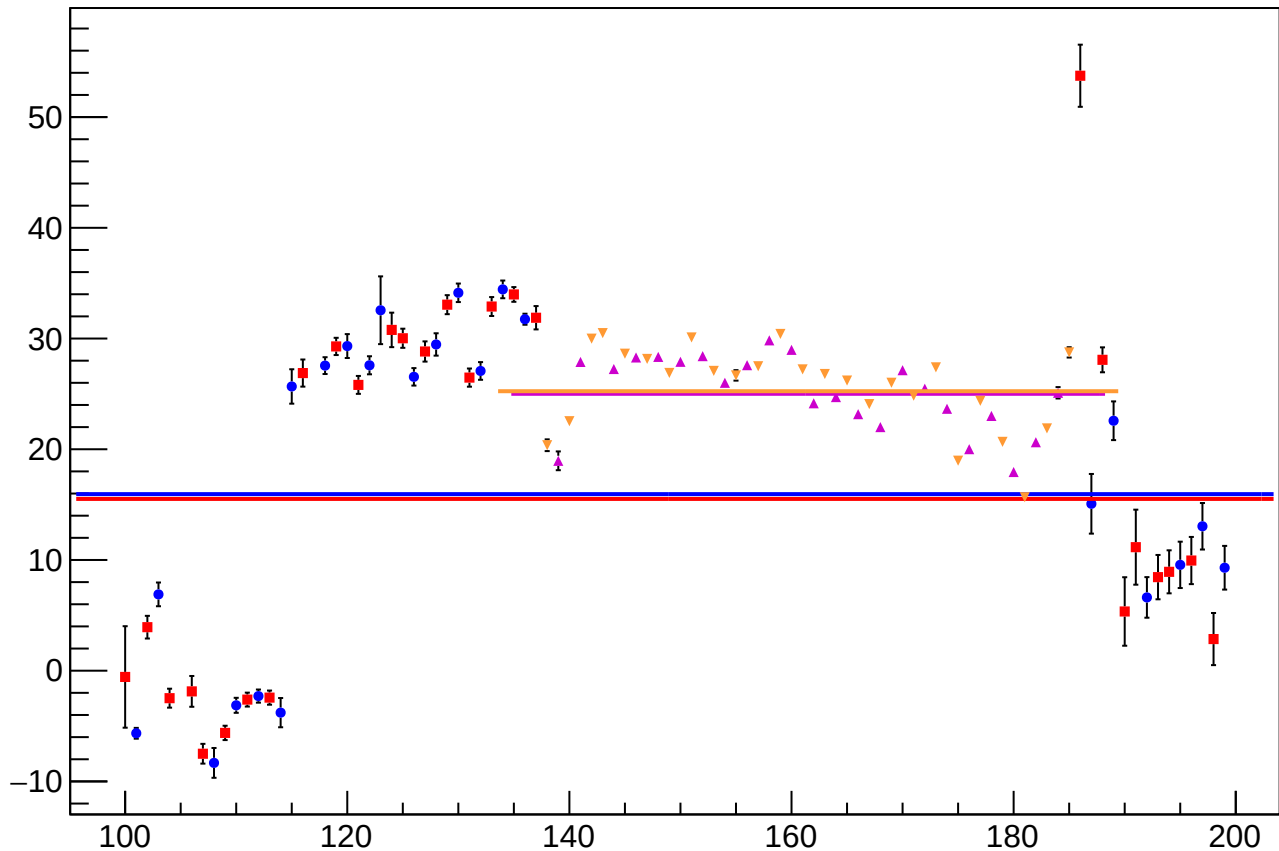
Right: -29.920 ± 0.169 $\chi^2/\text{NDF}: 5456.5/49$

In: -22.574 ± 0.069 $\chi^2/\text{NDF}: 19324.2/45$

Out: -23.446 ± 0.067 $\chi^2/\text{NDF}: 25447.9/51$

All: -23.019 ± 0.048 $\chi^2/\text{NDF}: 44853.8/97$

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: 15.514 $\pm$ 0.190 χ^2 /NDF: 7645.3/26

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

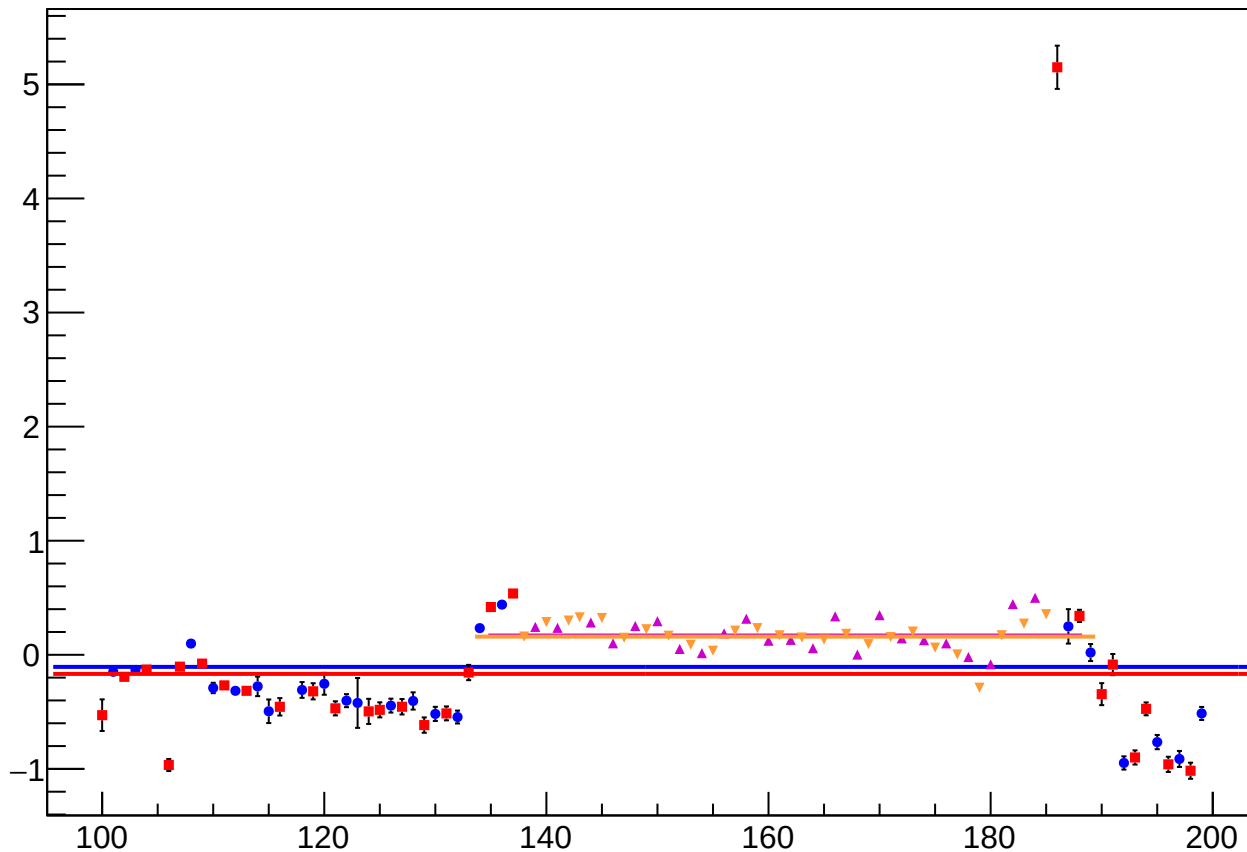
Right: 15.733 $\pm$ 0.133 χ^2 /NDF: 15253.8/49

In: 24.066 $\pm$ 0.060 χ^2 /NDF:12424.0/45

Out: 24.289 $\pm$ 0.059 χ^2 /NDF:13795.7/51

All: 24.179 $\pm$ 0.042 χ^2 /NDF: 26226.6/97

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.106 ± 0.010 $\chi^2/\text{NDF}: 1573.0/22$

Left Out: 0.159 ± 0.003 $\chi^2/\text{NDF}: 1864.2/24$

Right Out: -0.167 ± 0.010 $\chi^2/\text{NDF}: 2507.1/26$

Left In: 0.169 ± 0.003 $\chi^2/\text{NDF}: 2418.8/22$

Left: 0.164 ± 0.002 $\chi^2/\text{NDF}: 4288.4/47$

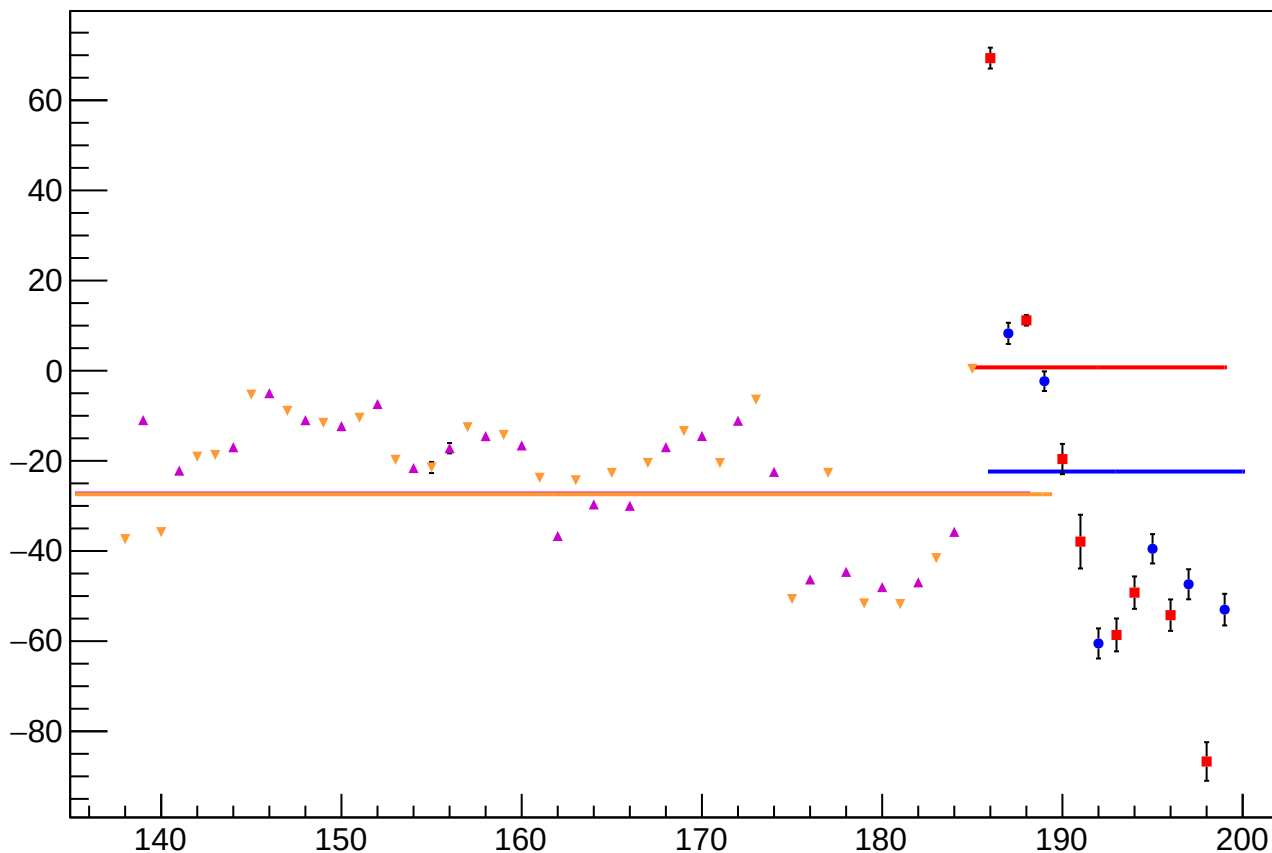
Right: -0.137 ± 0.007 $\chi^2/\text{NDF}: 4100.4/49$

In: 0.146 ± 0.003 $\chi^2/\text{NDF}: 4728.4/45$

Out: 0.133 ± 0.003 $\chi^2/\text{NDF}: 5436.6/51$

All: 0.139 ± 0.002 $\chi^2/\text{NDF}: 10176.9/97$

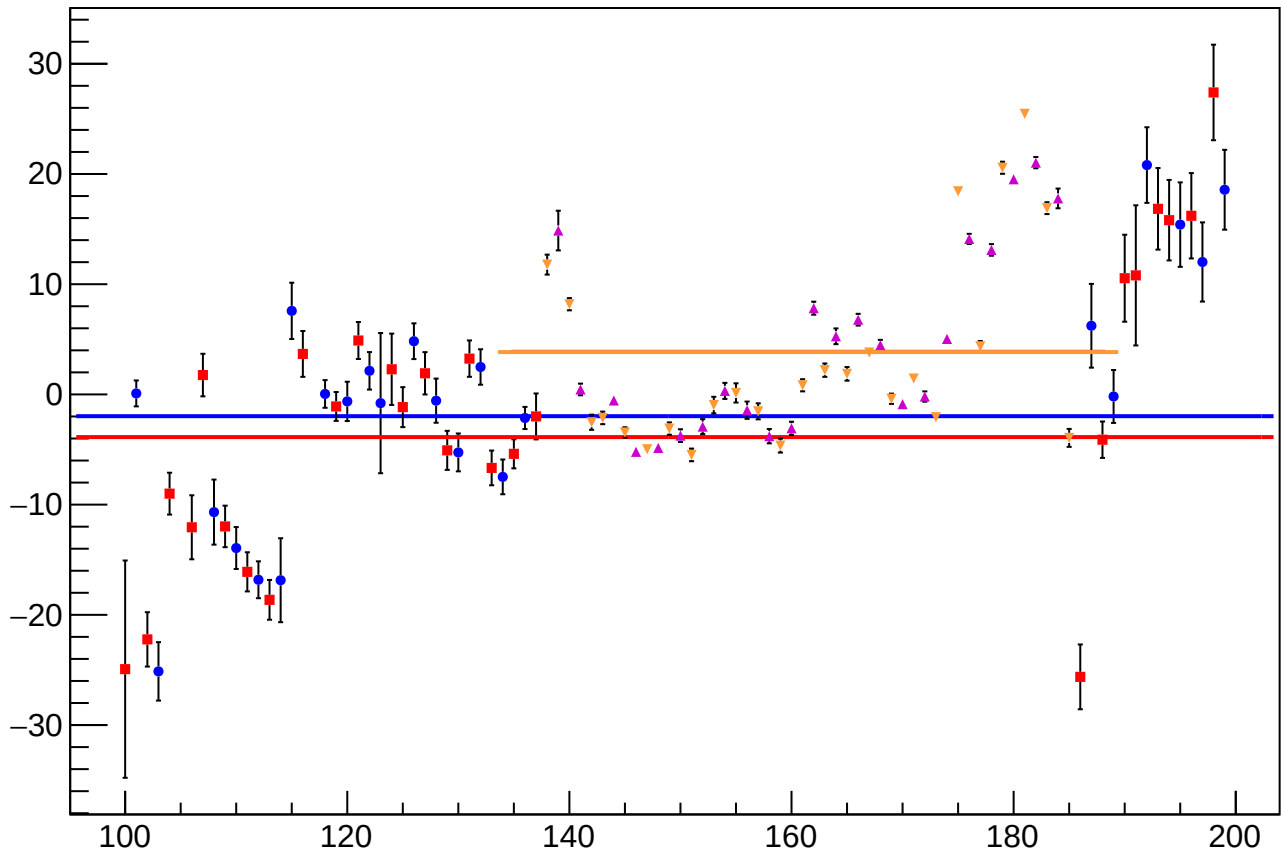
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



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: 0.738 ± 0.866 $\chi^2/\text{NDF}: 2160.2/7$
 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: -7.553 ± 0.693 $\chi^2/\text{NDF}: 2961.2/13$
 In: -27.173 ± 0.138 $\chi^2/\text{NDF}: 11868.1/28$
 Out: -26.722 ± 0.135 $\chi^2/\text{NDF}: 18042.0/32$
 All: -26.942 ± 0.097 $\chi^2/\text{NDF}: 29915.5/61$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.974 ± 0.394 $\chi^2/\text{NDF}: 403.6/22$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -3.872 ± 0.398 $\chi^2/\text{NDF}: 513.5/26$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

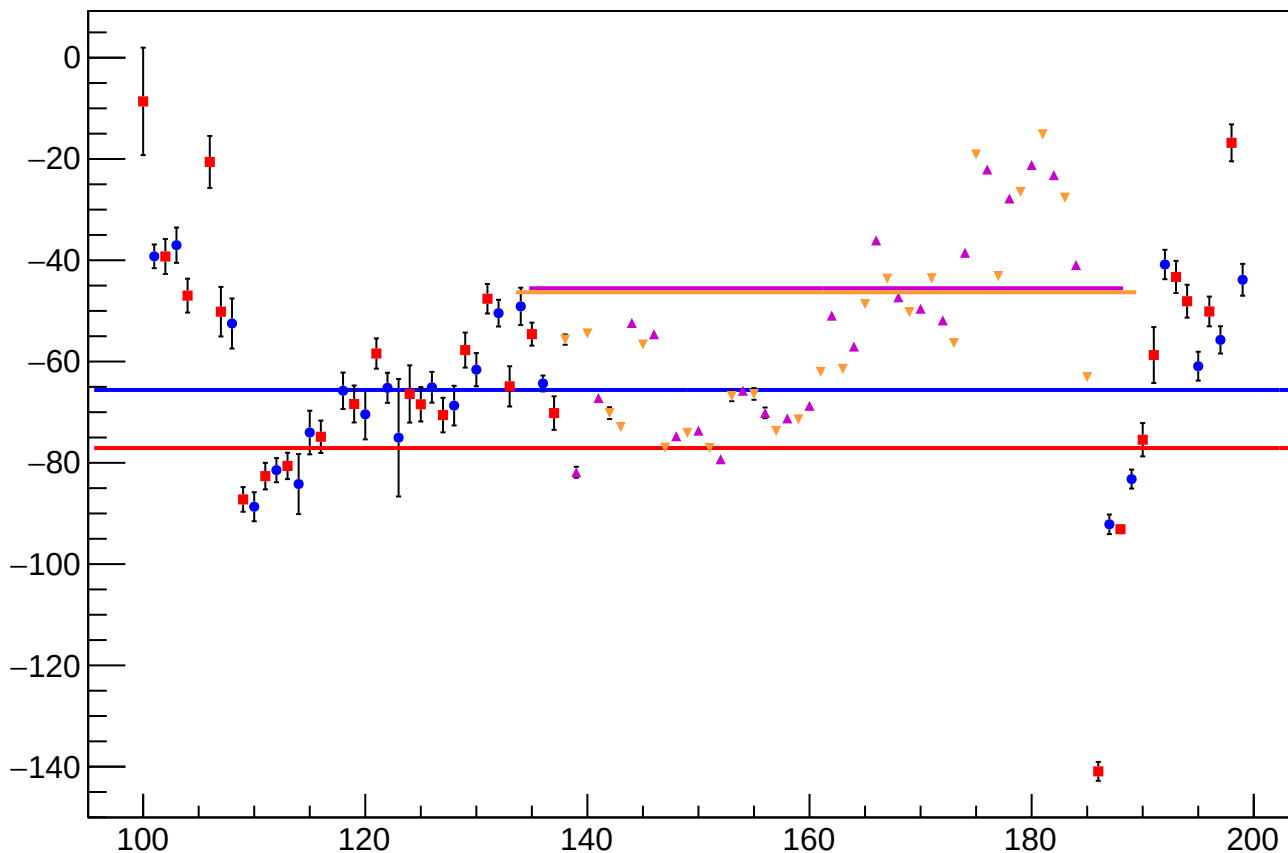
Right: -2.914 ± 0.280 $\chi^2/\text{NDF}: 928.6/49$

In: 3.435 ± 0.107 $\chi^2/\text{NDF}: 6031.4/45$

Out: 3.300 ± 0.105 $\chi^2/\text{NDF}: 7802.4/51$

All: 3.366 ± 0.075 $\chi^2/\text{NDF}: 13834.6/97$

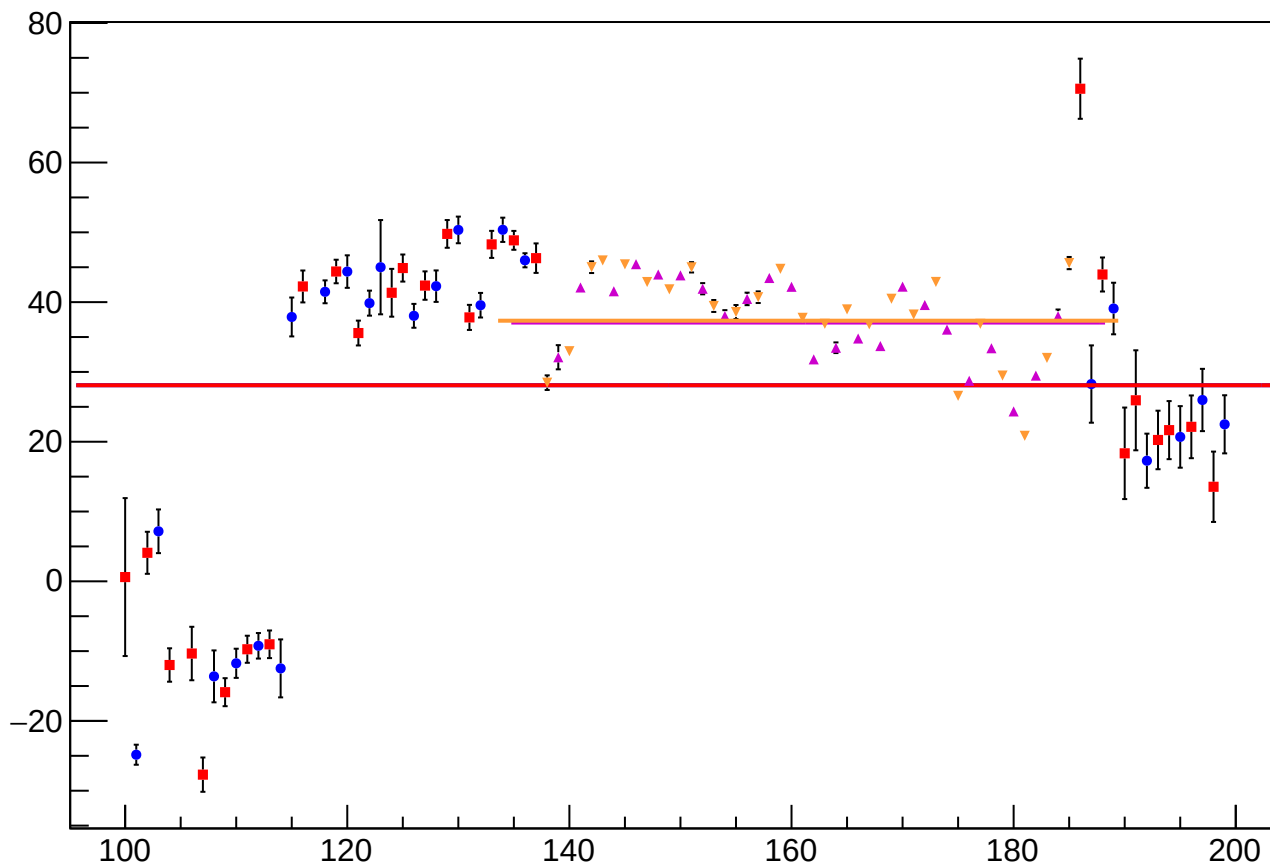
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



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: -77.079 ± 0.520 χ^2/NDF : 2751.7/26
 Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47
 Right: -72.088 ± 0.391 χ^2/NDF : 3759.5/49
 In: -46.582 ± 0.136 χ^2/NDF : 19411.2/45
 Out: -48.342 ± 0.133 χ^2/NDF : 26158.7/51
 All: -47.479 ± 0.095 χ^2/NDF : 45655.3/97

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.095 $\pm$ 0.445 χ^2 /NDF: 3332.5/22

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.091 $\pm$ 0.456 χ^2 /NDF: 3191.5/26

Left In: 37.074 $\pm$ 0.125 χ^2 /NDF:2397.3/22

Left: 37.209 $\pm$ 0.088 χ^2 /NDF: 5548.7/47

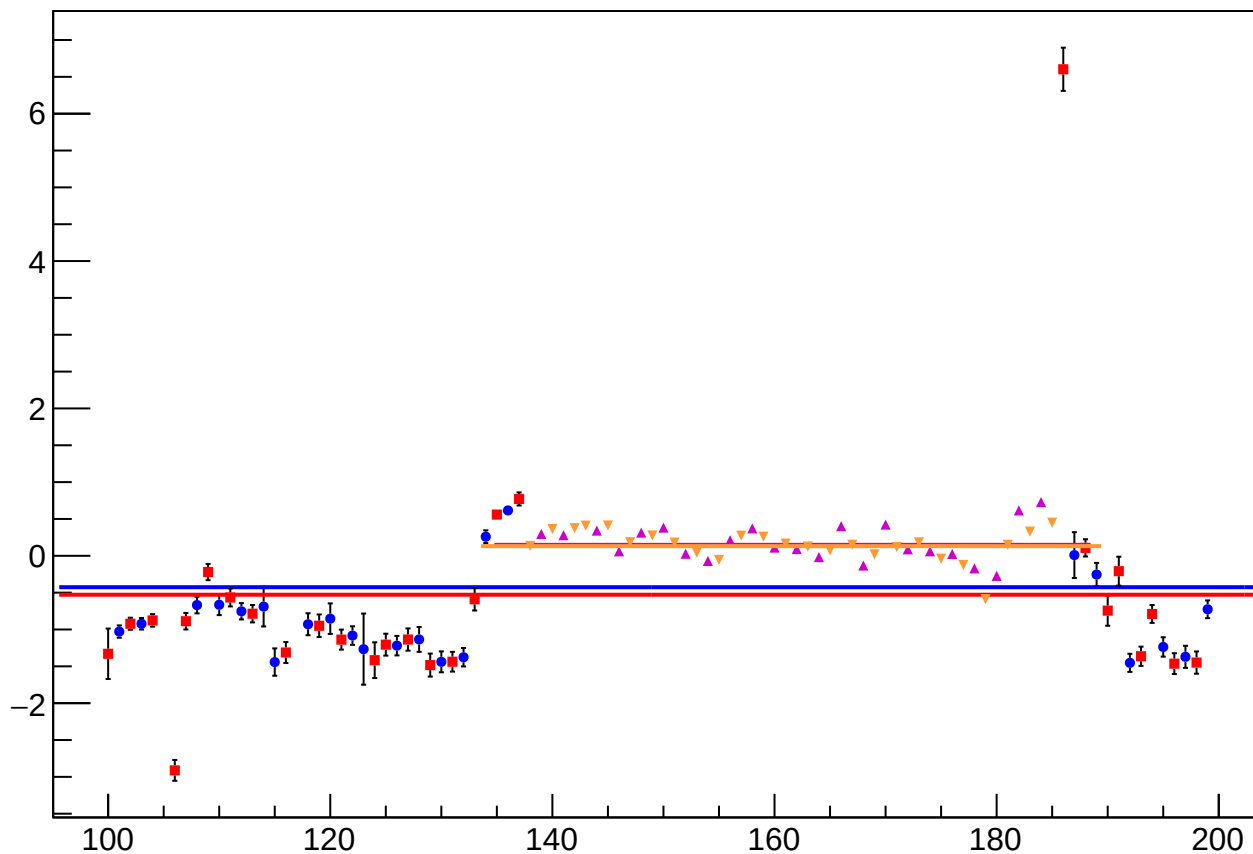
Right: 28.093 $\pm$ 0.319 χ^2 /NDF: 6523.9/49

In: 36.417 $\pm$ 0.120 χ^2 /NDF:6106.4/45

Out: 36.713 $\pm$ 0.119 χ^2 /NDF:6724.6/51

All: 36.567 $\pm$ 0.085 χ^2 /NDF: 12834.0/97

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: -0.528 ± 0.023 χ^2/NDF : 1911.2/26

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

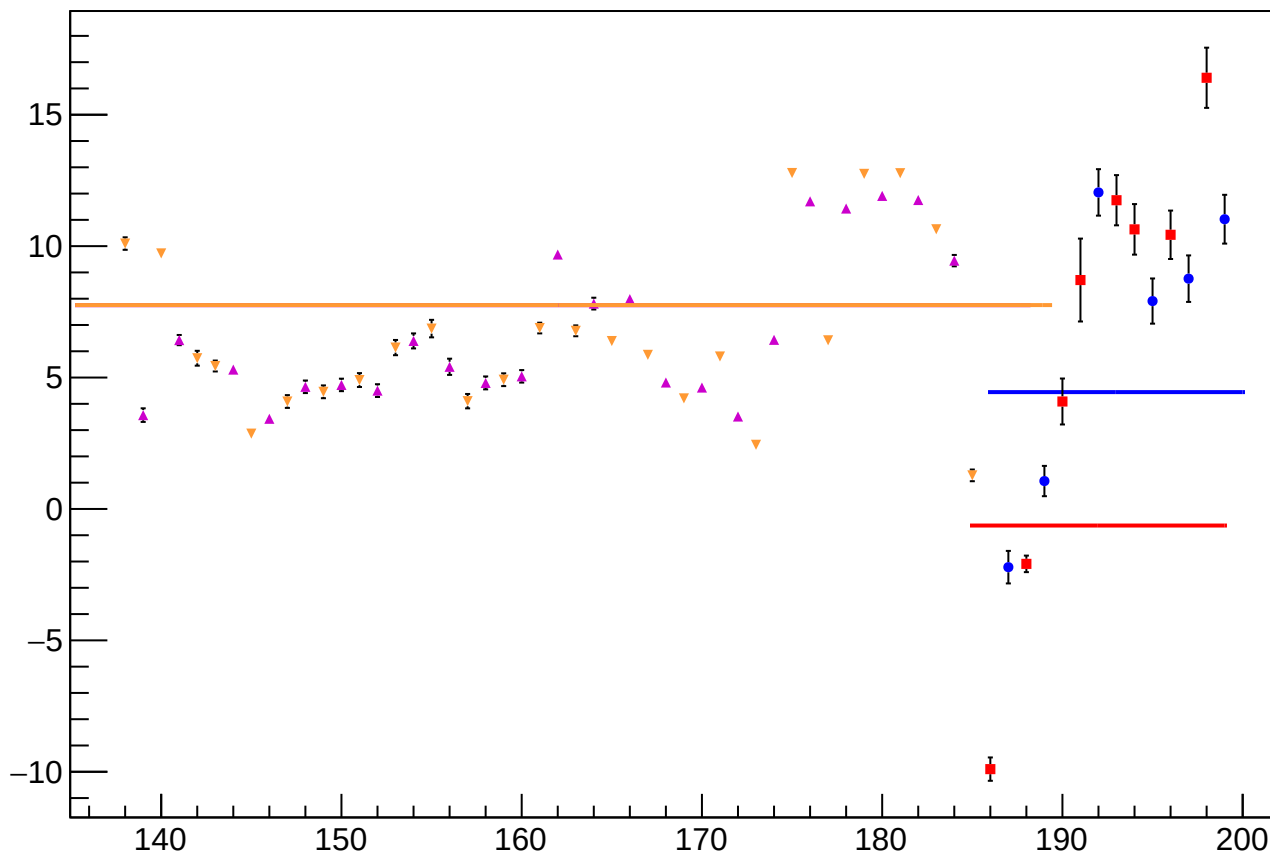
Right: -0.477 ± 0.016 χ^2/NDF : 3105.3/49

In: 0.115 ± 0.006 χ^2/NDF : 3576.3/45

Out: 0.095 ± 0.005 χ^2/NDF : 4101.3/51

All: 0.105 ± 0.004 χ^2/NDF : 7684.5/97

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.446 $\pm$ 0.306 χ^2 /NDF: 314.4/5

Left Out: 7.757 $\pm$ 0.034 χ^2 /NDF:11728.6/24

Right Out: -0.631 $\pm$ 0.218 χ^2 /NDF: 1191.6/7

Left In: 7.753 $\pm$ 0.035 χ^2 /NDF:8345.2/22

Left: 7.755 $\pm$ 0.025 χ^2 /NDF: 20073.8/47

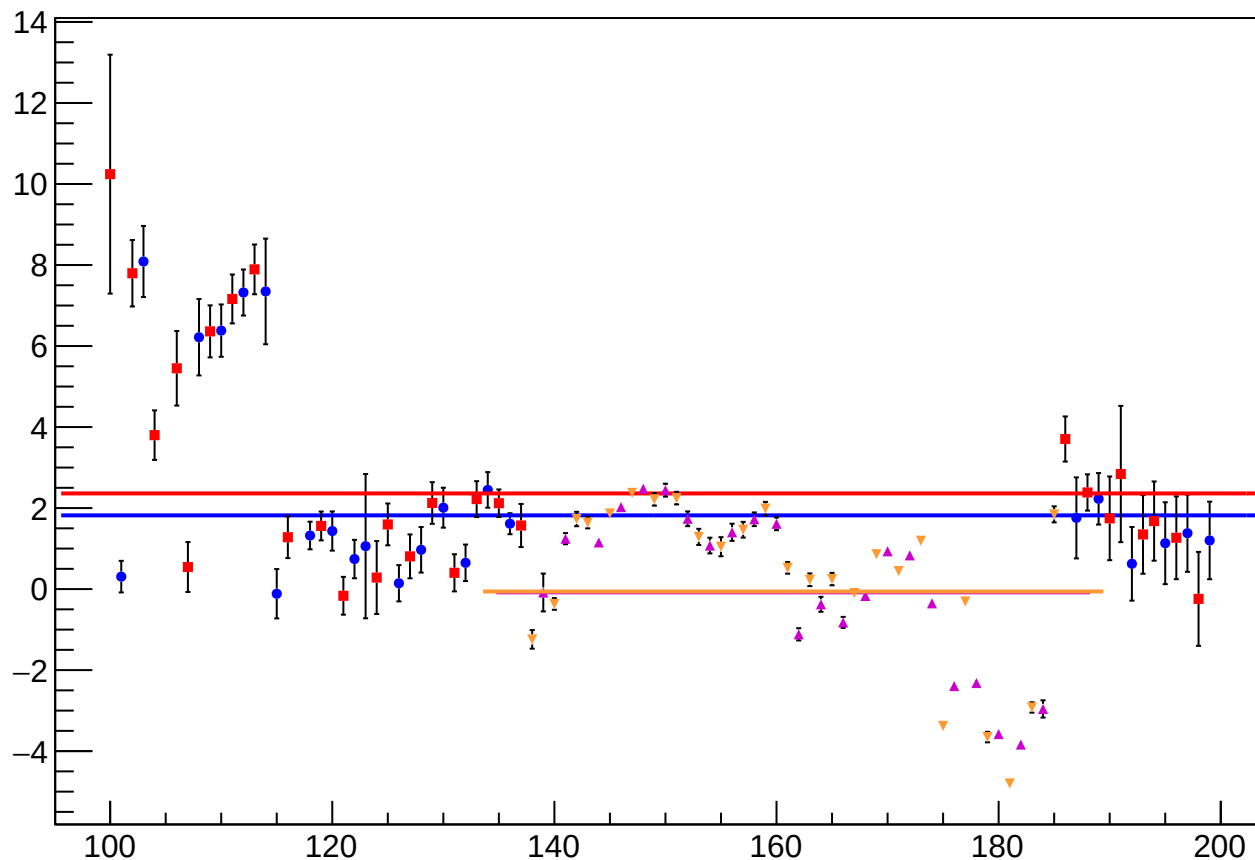
Right: 1.082 $\pm$ 0.178 χ^2 /NDF: 1688.5/13

In: 7.710 $\pm$ 0.035 χ^2 /NDF:8774.9/28

Out: 7.554 $\pm$ 0.034 χ^2 /NDF:14361.9/32

All: 7.630 $\pm$ 0.024 χ^2 /NDF: 23147.0/61

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.820 $\pm$ 0.111 χ^2 /NDF: 296.6/22

Left Out: -0.059 $\pm$ 0.028 χ^2 /NDF: 6068.8/24

Right Out: 2.361 $\pm$ 0.112 χ^2 /NDF: 349.6/26

Left In: -0.080 $\pm$ 0.028 χ^2 /NDF: 4979.5/22

Left: -0.070 $\pm$ 0.020 χ^2 /NDF: 11048.5/47

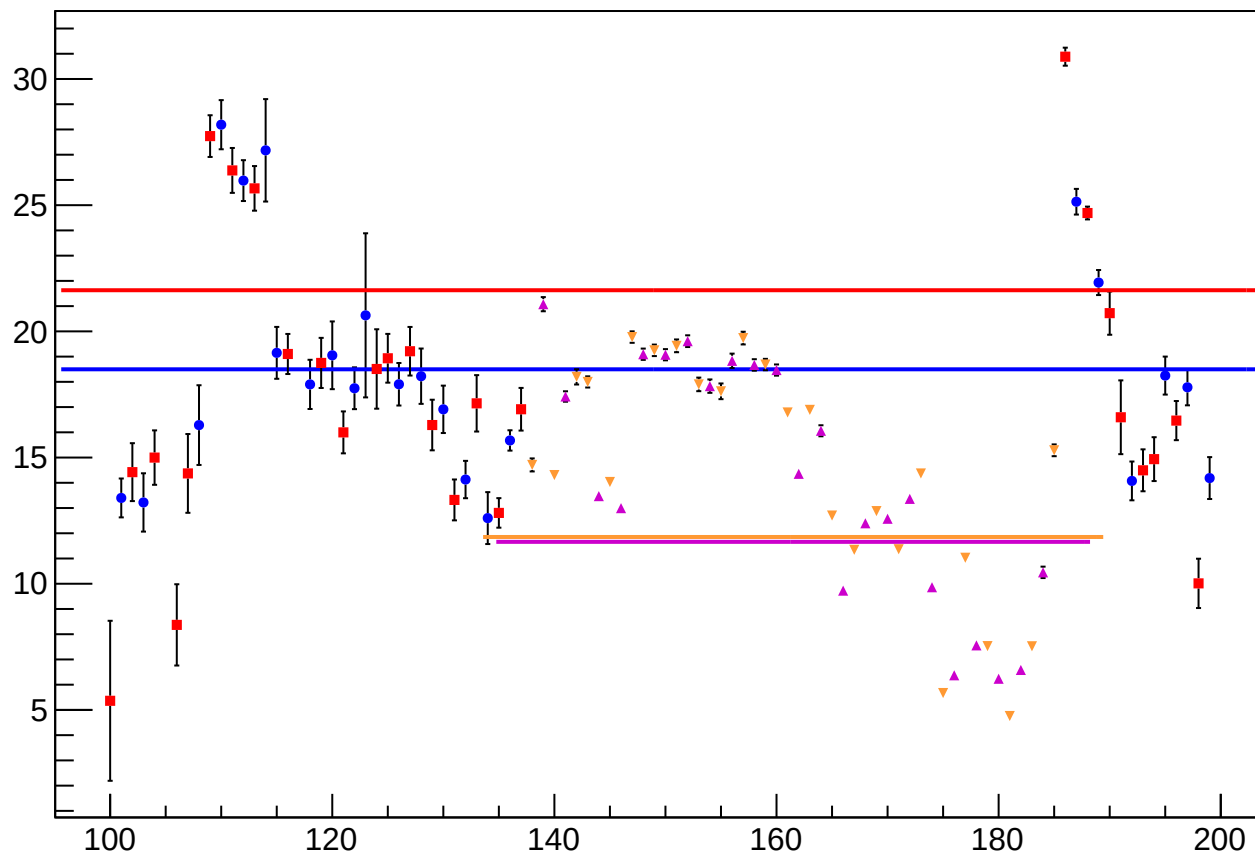
Right: 2.089 $\pm$ 0.079 χ^2 /NDF: 657.9/49

In: 0.034 $\pm$ 0.027 χ^2 /NDF: 5549.3/45

Out: 0.081 $\pm$ 0.027 χ^2 /NDF: 6858.3/51

All: 0.058 $\pm$ 0.019 χ^2 /NDF: 12409.0/97

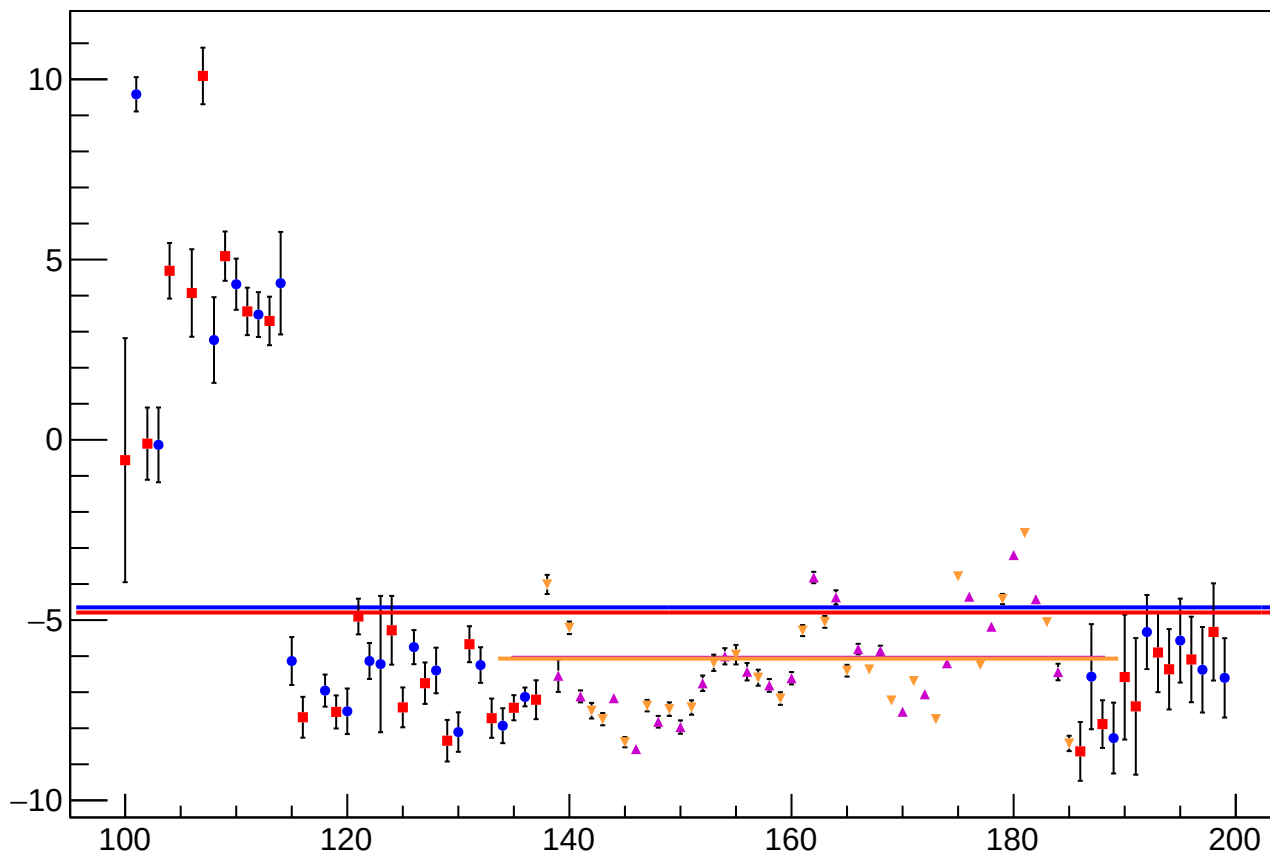
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.497 $\pm$ 0.165 χ^2 /NDF: 671.0/22
 Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24
 Right Out: 21.630 $\pm$ 0.139 χ^2 /NDF: 1936.7/26
 Left In: 11.660 $\pm$ 0.035 χ^2 /NDF:16710.2/22

Left: 11.758 $\pm$ 0.025 χ^2 /NDF: 35874.9/47
 Right: 20.322 $\pm$ 0.106 χ^2 /NDF: 2818.5/49
 In: 11.958 $\pm$ 0.034 χ^2 /NDF:19028.9/45
 Out: 12.423 $\pm$ 0.034 χ^2 /NDF:25717.4/51
 All: 12.196 $\pm$ 0.024 χ^2 /NDF: 44839.2/97

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.647 ± 0.126 $\chi^2/\text{NDF}: 1605.9/22$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -4.790 ± 0.129 $\chi^2/\text{NDF}: 1397.9/26$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

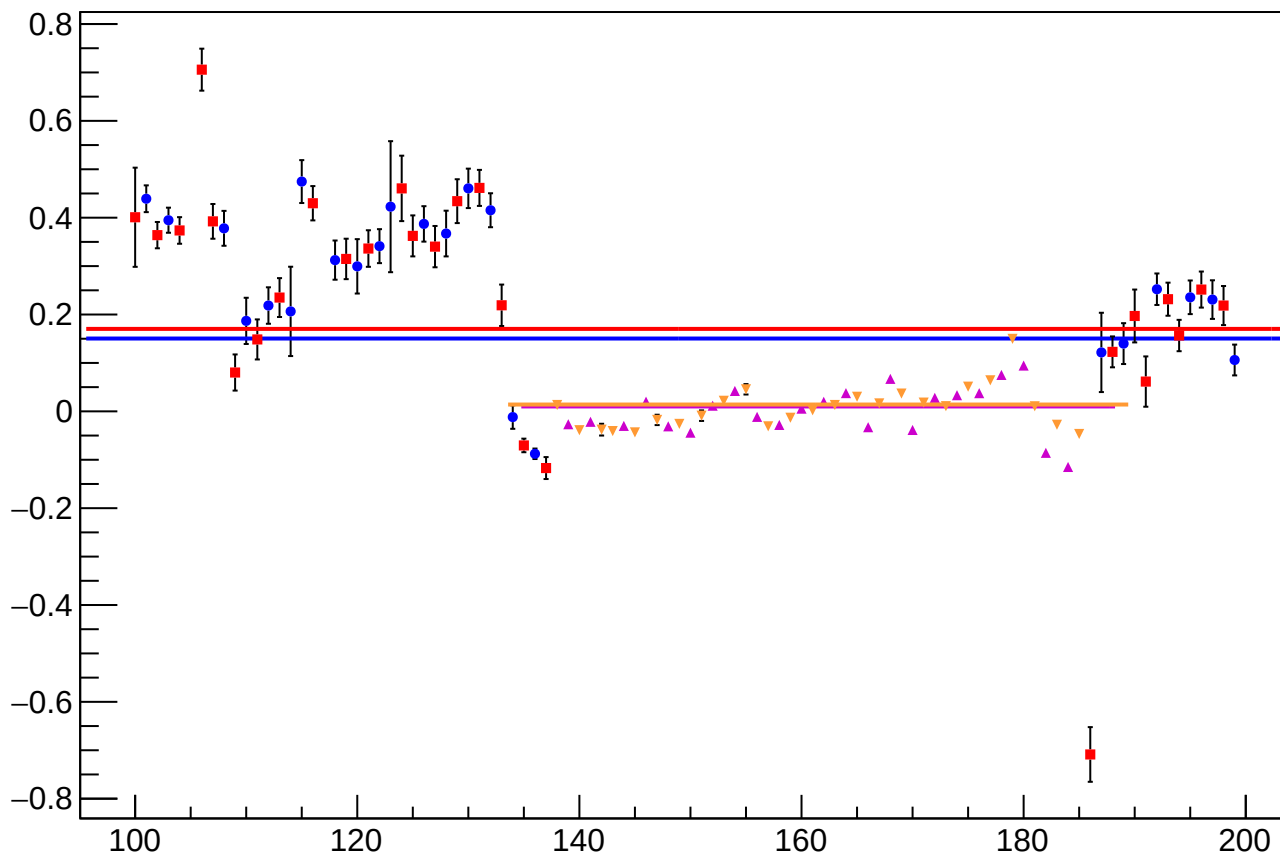
Right: -4.717 ± 0.090 $\chi^2/\text{NDF}: 3004.3/49$

In: -5.961 ± 0.031 $\chi^2/\text{NDF}: 4016.0/45$

Out: -5.998 ± 0.030 $\chi^2/\text{NDF}: 4162.9/51$

All: -5.980 ± 0.022 $\chi^2/\text{NDF}: 8179.6/97$

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: 0.170 $\pm$ 0.007 χ^2 /NDF: 1260.6/26

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

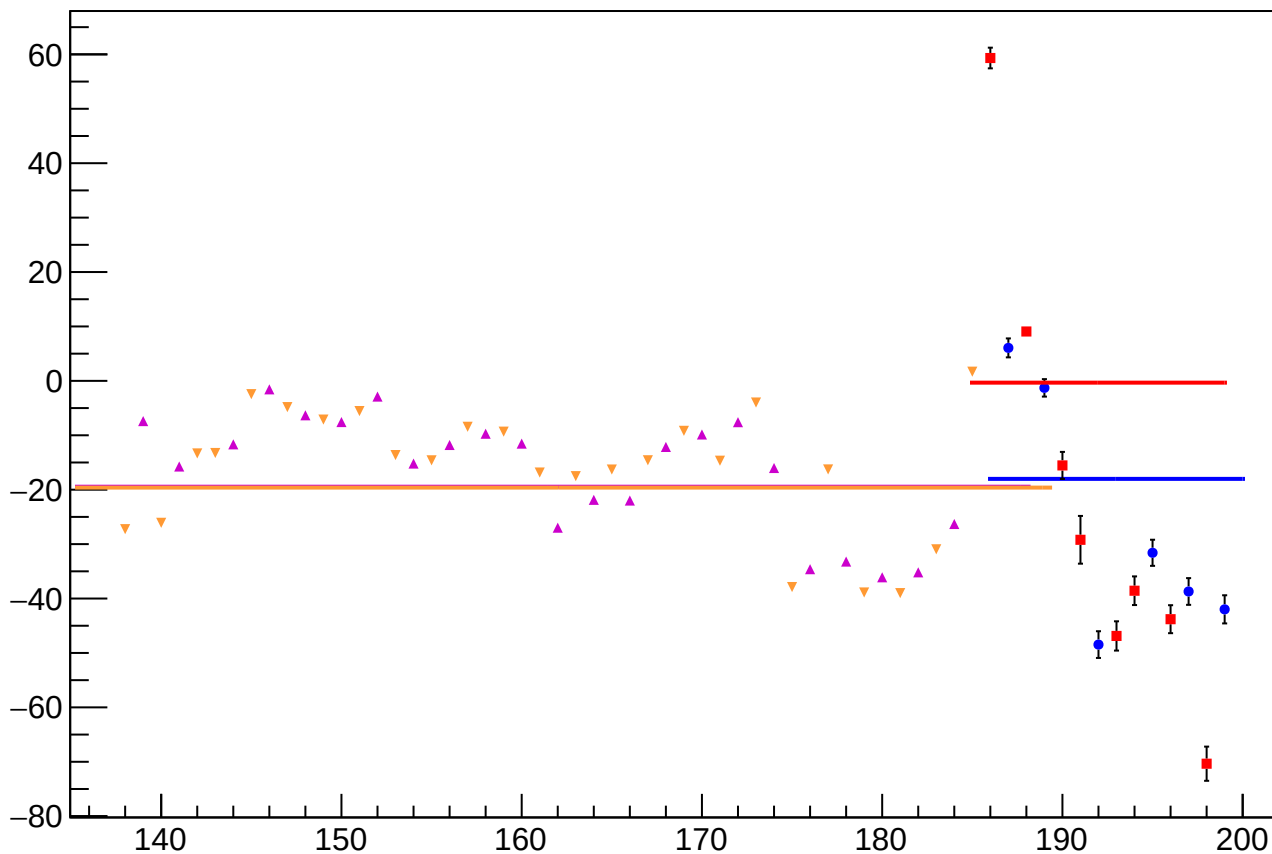
Right: 0.160 $\pm$ 0.005 χ^2 /NDF: 2346.3/49

In: 0.017 $\pm$ 0.001 χ^2 /NDF:2748.4/45

Out: 0.021 $\pm$ 0.001 χ^2 /NDF:2760.8/51

All: 0.019 $\pm$ 0.001 χ^2 /NDF: 5513.7/97

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected

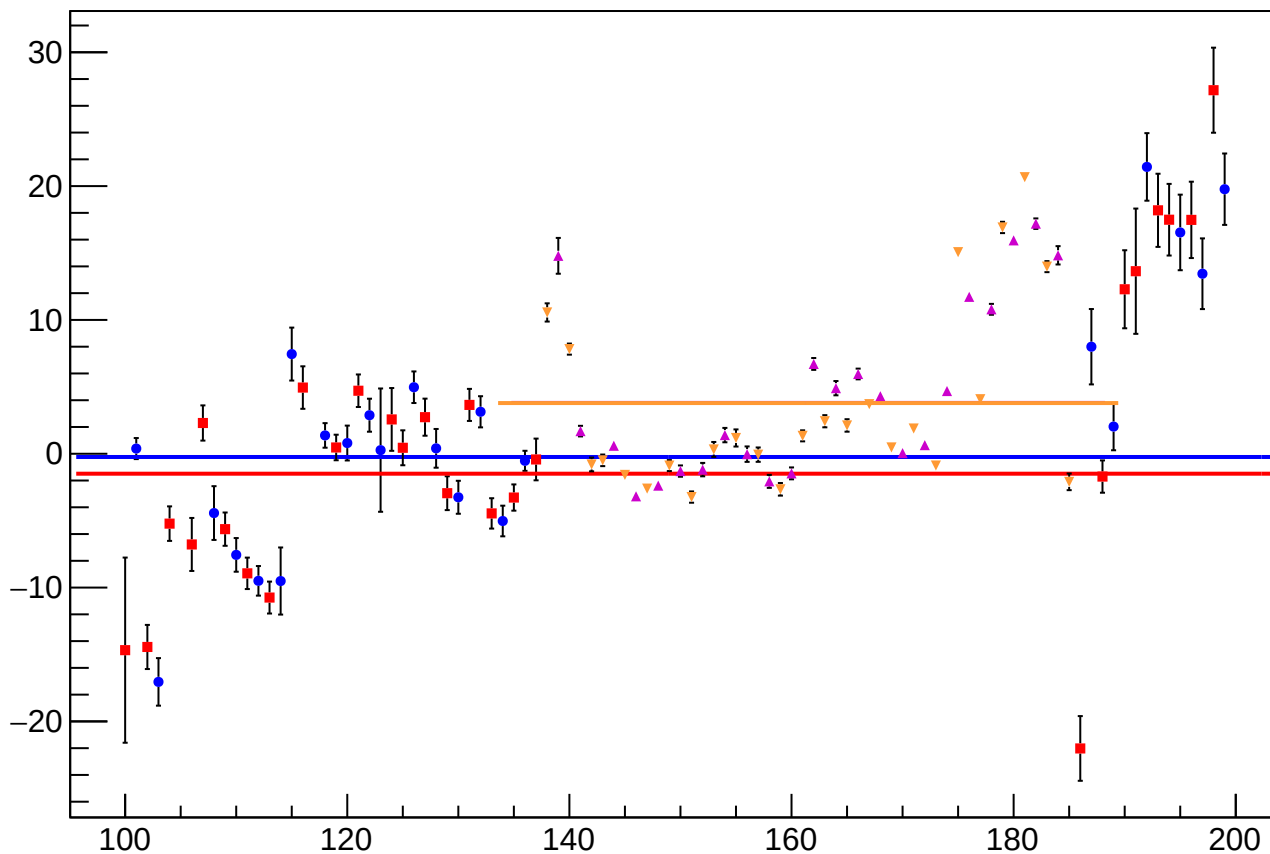


Right In: -18.011 $\pm$ 0.853 χ^2 /NDF: 642.5/5
 Left Out: -19.612 $\pm$ 0.103 χ^2 /NDF:15761.3/24
 Right Out: -0.327 $\pm$ 0.643 χ^2 /NDF: 2482.2/7
 Left In: -19.450 $\pm$ 0.105 χ^2 /NDF:12283.1/22

Left: -19.533 $\pm$ 0.074 χ^2 /NDF: 28045.6/47
 Right: -6.734 $\pm$ 0.514 χ^2 /NDF: 3398.4/13
 In: -19.429 $\pm$ 0.104 χ^2 /NDF:12928.4/28
 Out: -19.128 $\pm$ 0.102 χ^2 /NDF:19119.5/32

All: -19.275 $\pm$ 0.073 χ^2 /NDF: 32052.2/61

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: -1.490 ± 0.284 $\chi^2/\text{NDF}: 624.6/26$

Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$

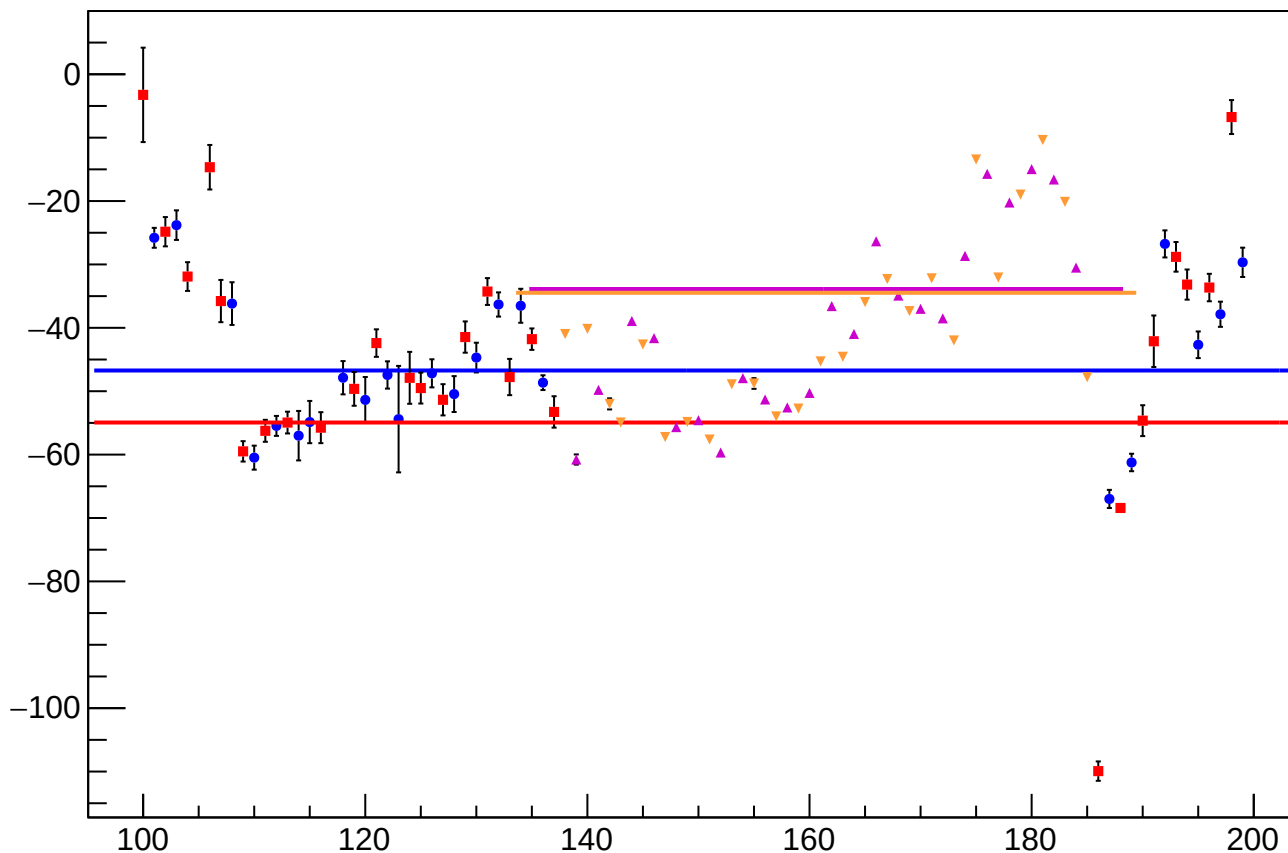
Right: -0.860 ± 0.200 $\chi^2/\text{NDF}: 1125.8/49$

In: 3.470 ± 0.080 $\chi^2/\text{NDF}: 6198.4/45$

Out: 3.380 ± 0.079 $\chi^2/\text{NDF}: 8094.6/51$

All: 3.425 ± 0.056 $\chi^2/\text{NDF}: 14293.6/97$

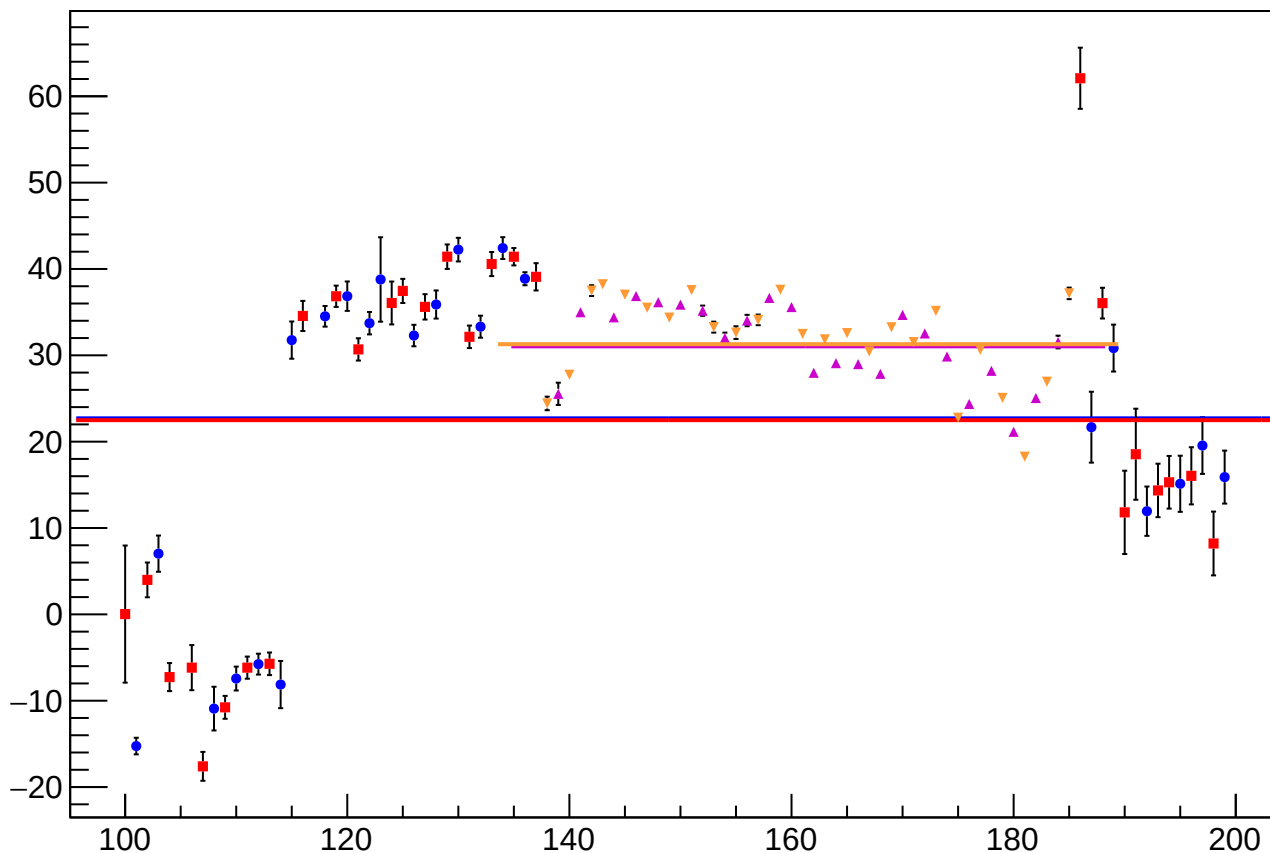
reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



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: -54.939 ± 0.376 χ^2/NDF : 3057.5/26
 Left In: -33.875 ± 0.105 χ^2/NDF : 17638.7/22

Left: -34.177 ± 0.074 χ^2/NDF : 37851.2/47
 Right: -51.338 ± 0.282 χ^2/NDF : 4176.4/49
 In: -34.617 ± 0.102 χ^2/NDF : 19409.4/45
 Out: -35.924 ± 0.100 χ^2/NDF : 26006.3/51
 All: -35.283 ± 0.072 χ^2/NDF : 45499.1/97

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: 22.493 $\pm$ 0.325 χ^2 /NDF: 4250.9/26

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

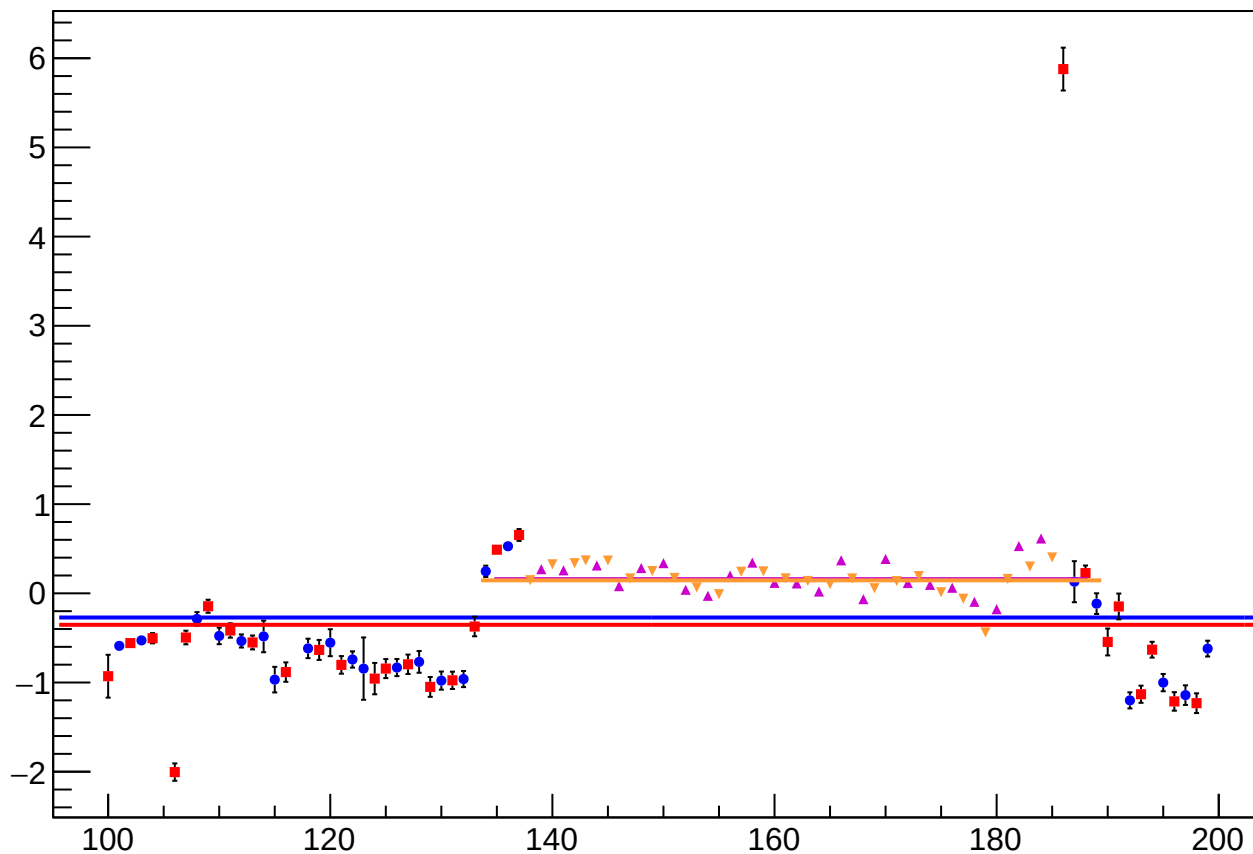
Right: 22.598 $\pm$ 0.227 χ^2 /NDF: 8603.3/49

In: 30.368 $\pm$ 0.090 χ^2 /NDF:7463.3/45

Out: 30.629 $\pm$ 0.089 χ^2 /NDF:8274.4/51

All: 30.500 $\pm$ 0.063 χ^2 /NDF: 15741.9/97

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.271 ± 0.016 $\chi^2/\text{NDF}: 1266.9/22$

Left Out: 0.145 ± 0.004 $\chi^2/\text{NDF}: 1579.6/24$

Right Out: -0.353 ± 0.017 $\chi^2/\text{NDF}: 2105.5/26$

Left In: 0.159 ± 0.004 $\chi^2/\text{NDF}: 2009.8/22$

Left: 0.152 ± 0.003 $\chi^2/\text{NDF}: 3594.3/47$

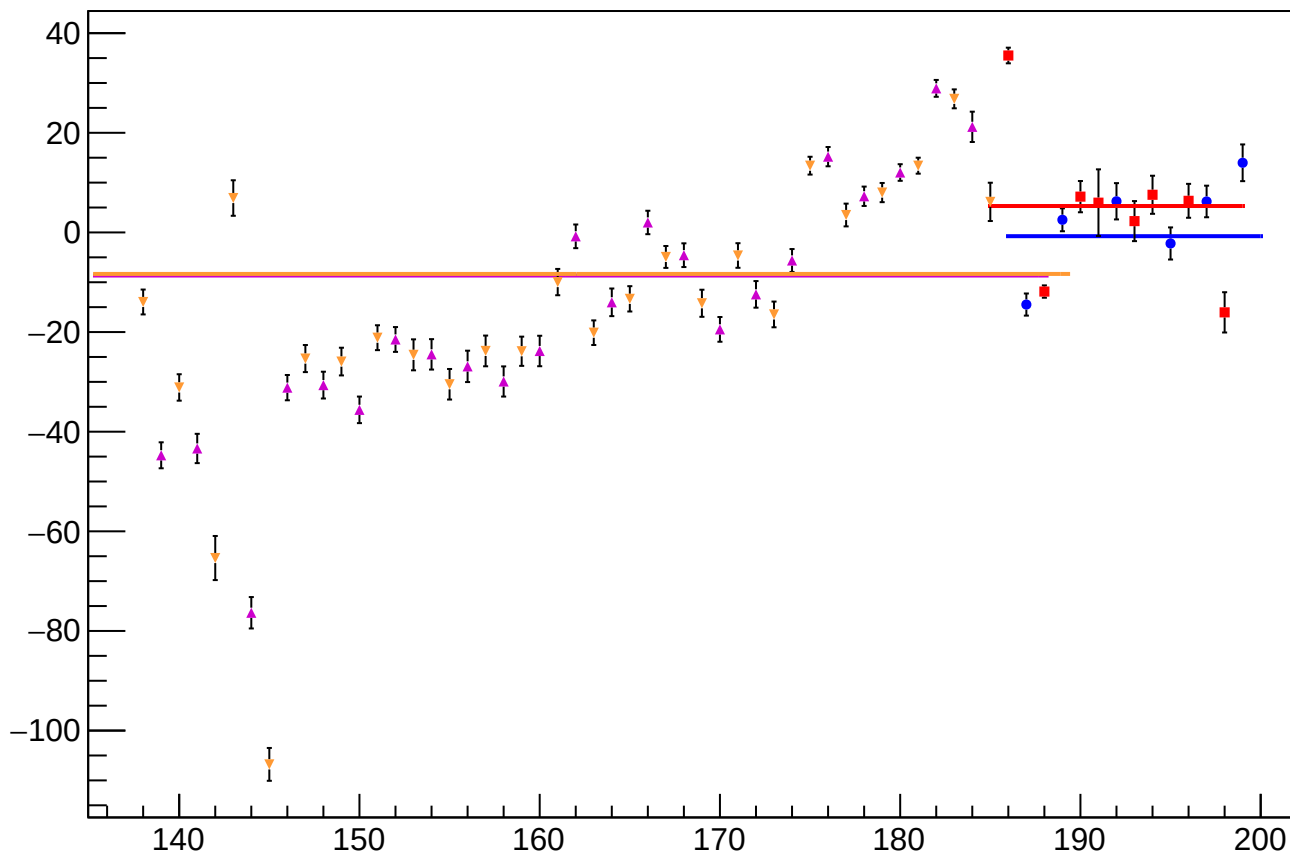
Right: -0.312 ± 0.012 $\chi^2/\text{NDF}: 3384.7/49$

In: 0.131 ± 0.004 $\chi^2/\text{NDF}: 3915.7/45$

Out: 0.115 ± 0.004 $\chi^2/\text{NDF}: 4540.2/51$

All: 0.123 ± 0.003 $\chi^2/\text{NDF}: 8464.0/97$

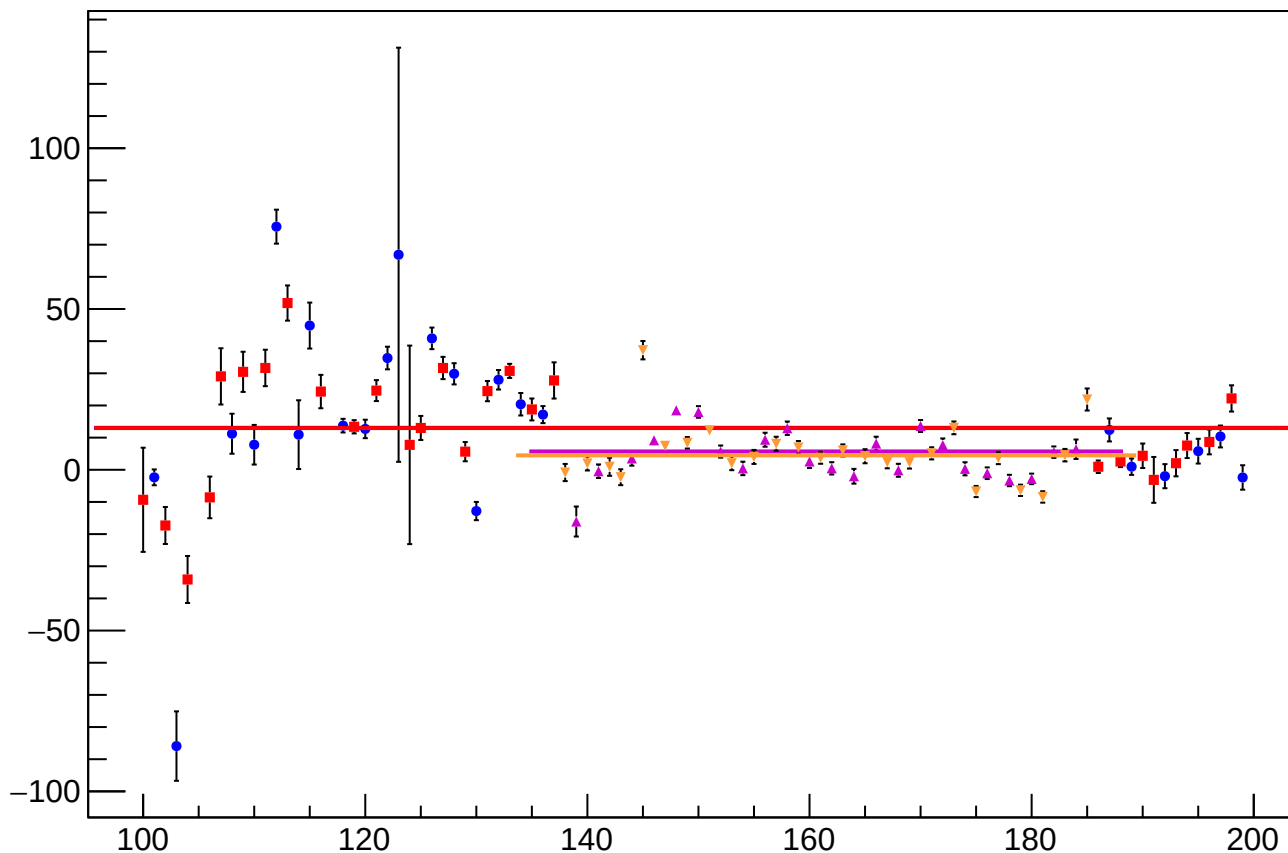
reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



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: 5.303 ± 0.828 χ^2/NDF : 591.2/7
 Left In: -8.652 ± 0.507 χ^2/NDF : 2223.8/22

Left: -8.490 ± 0.356 χ^2/NDF : 4450.2/47
 Right: 3.271 ± 0.675 χ^2/NDF : 674.2/13
 In: -7.394 ± 0.465 χ^2/NDF : 2327.4/28
 Out: -4.693 ± 0.428 χ^2/NDF : 3016.2/32
 All: -5.931 ± 0.315 χ^2/NDF : 5361.9/61

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: 12.971 $\pm$ 0.677 χ^2 /NDF: 396.6/26

Left In: 5.705 $\pm$ 0.404 χ^2 /NDF: 324.1/22

Left: 5.076 $\pm$ 0.281 χ^2 /NDF: 700.6/47

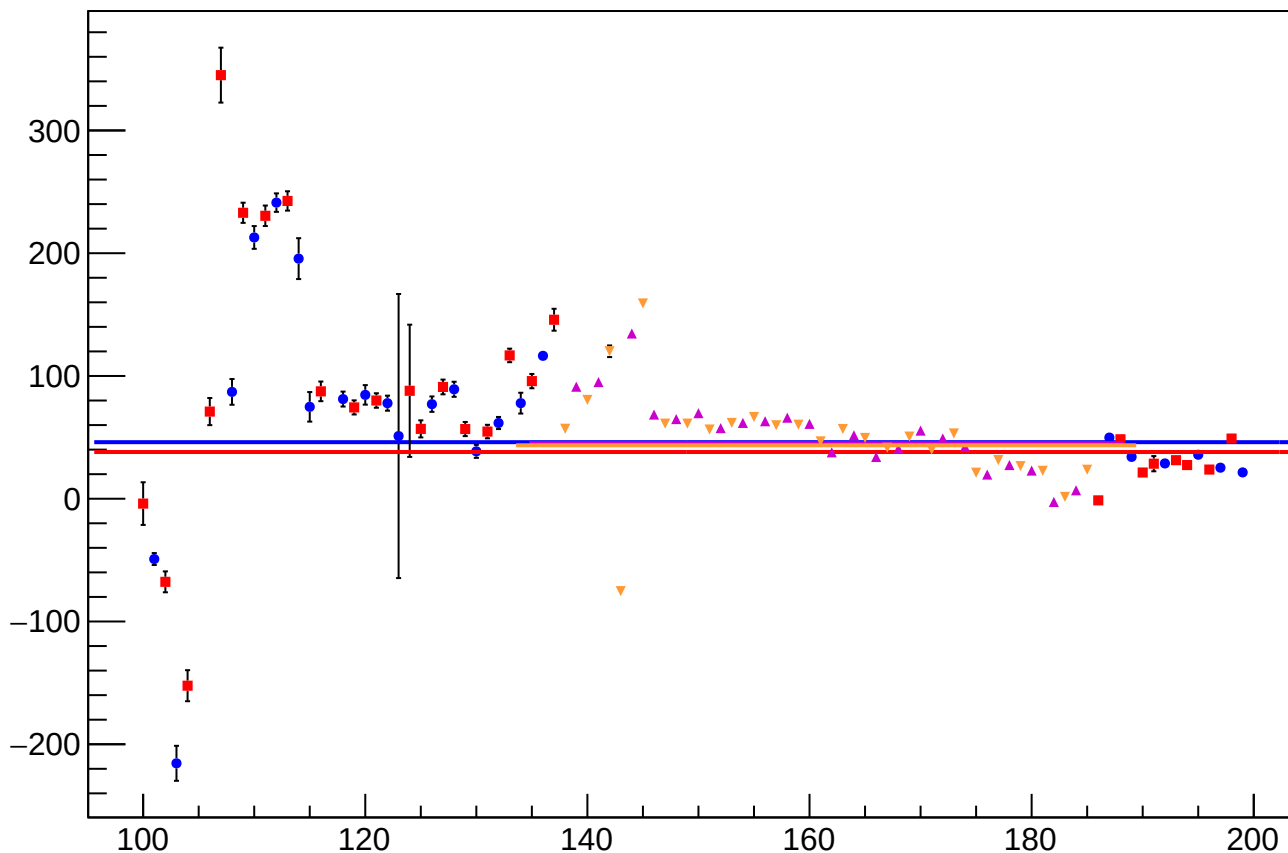
Right: 13.005 $\pm$ 0.496 χ^2 /NDF: 987.2/49

In: 7.428 $\pm$ 0.354 χ^2 /NDF: 992.1/45

Out: 6.616 $\pm$ 0.339 χ^2 /NDF: 886.1/51

All: 7.005 $\pm$ 0.245 χ^2 /NDF: 1880.9/97

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: 38.057+/-0.634 χ^2/NDF : 4205.7/26

Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47

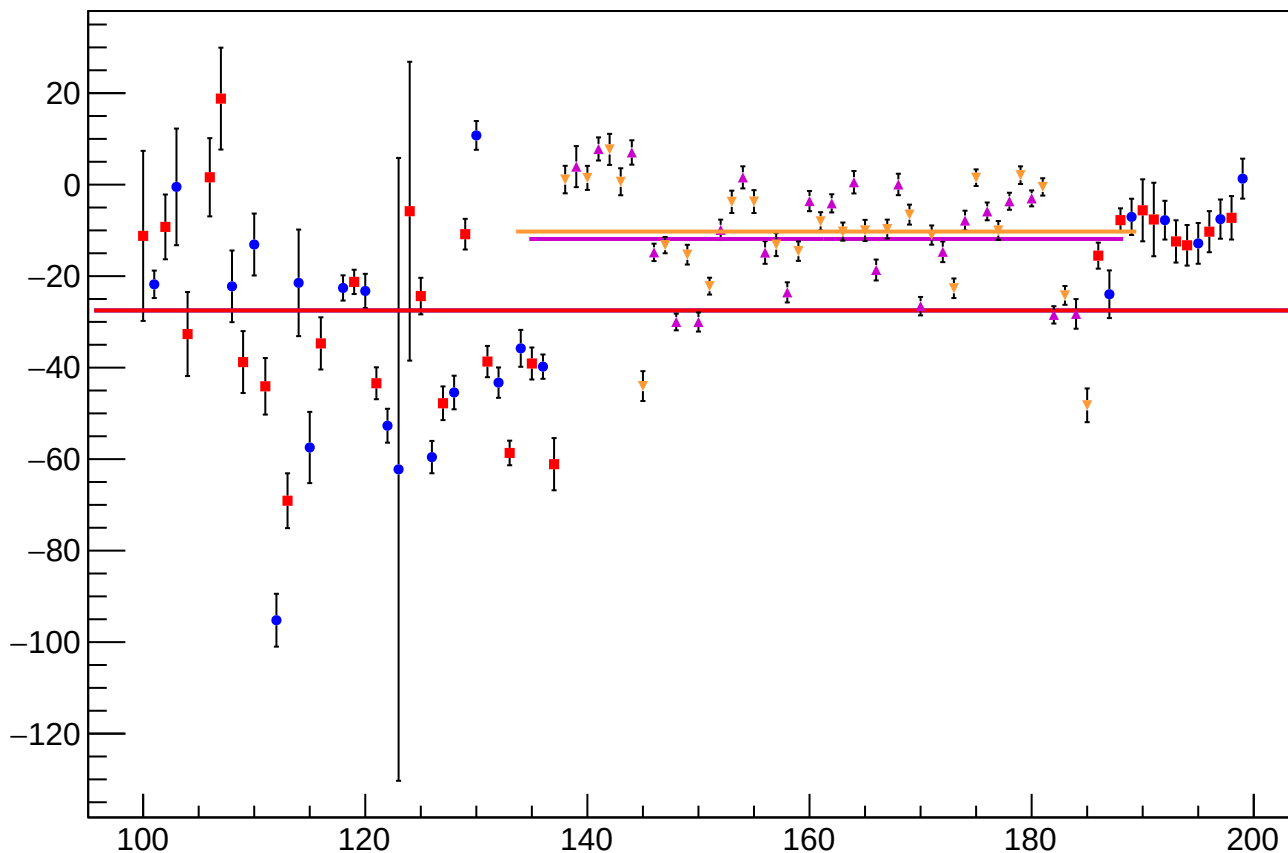
Right: 40.955+/-0.507 χ^2/NDF : 6769.5/49

In: 45.438+/-0.433 χ^2/NDF : 5555.4/45

Out: 41.438+/-0.392 χ^2/NDF : 8082.3/51

All: 43.240+/-0.290 χ^2/NDF : 13684.6/97

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: -27.494 ± 0.830 χ^2/NDF : 515.9/26

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

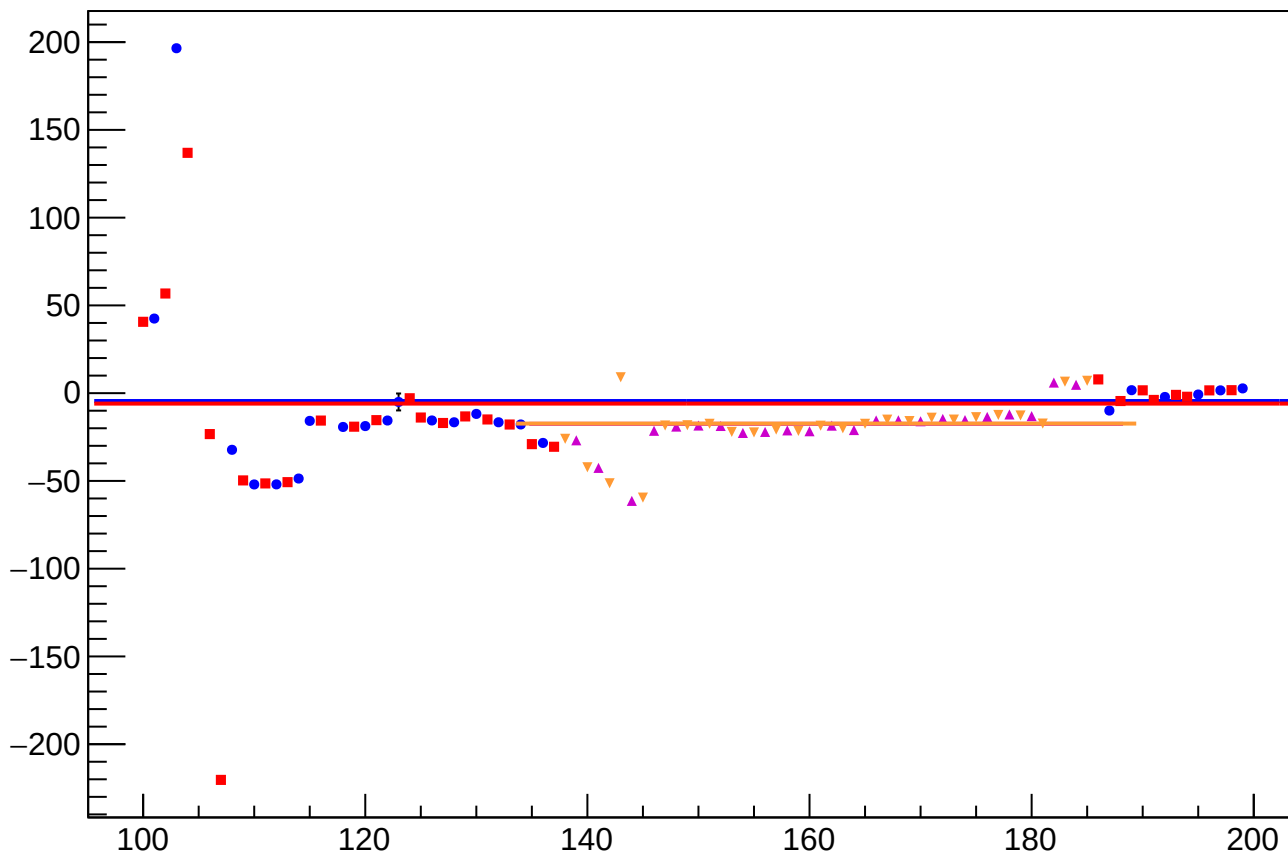
Right: -27.499 ± 0.598 χ^2/NDF : 1159.5/49

In: -15.297 ± 0.403 χ^2/NDF : 1566.8/45

Out: -14.096 ± 0.392 χ^2/NDF : 1403.6/51

All: -14.679 ± 0.281 χ^2/NDF : 2974.9/97

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: -5.950 ± 0.041 $\chi^2/\text{NDF}: 585416.5/26$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

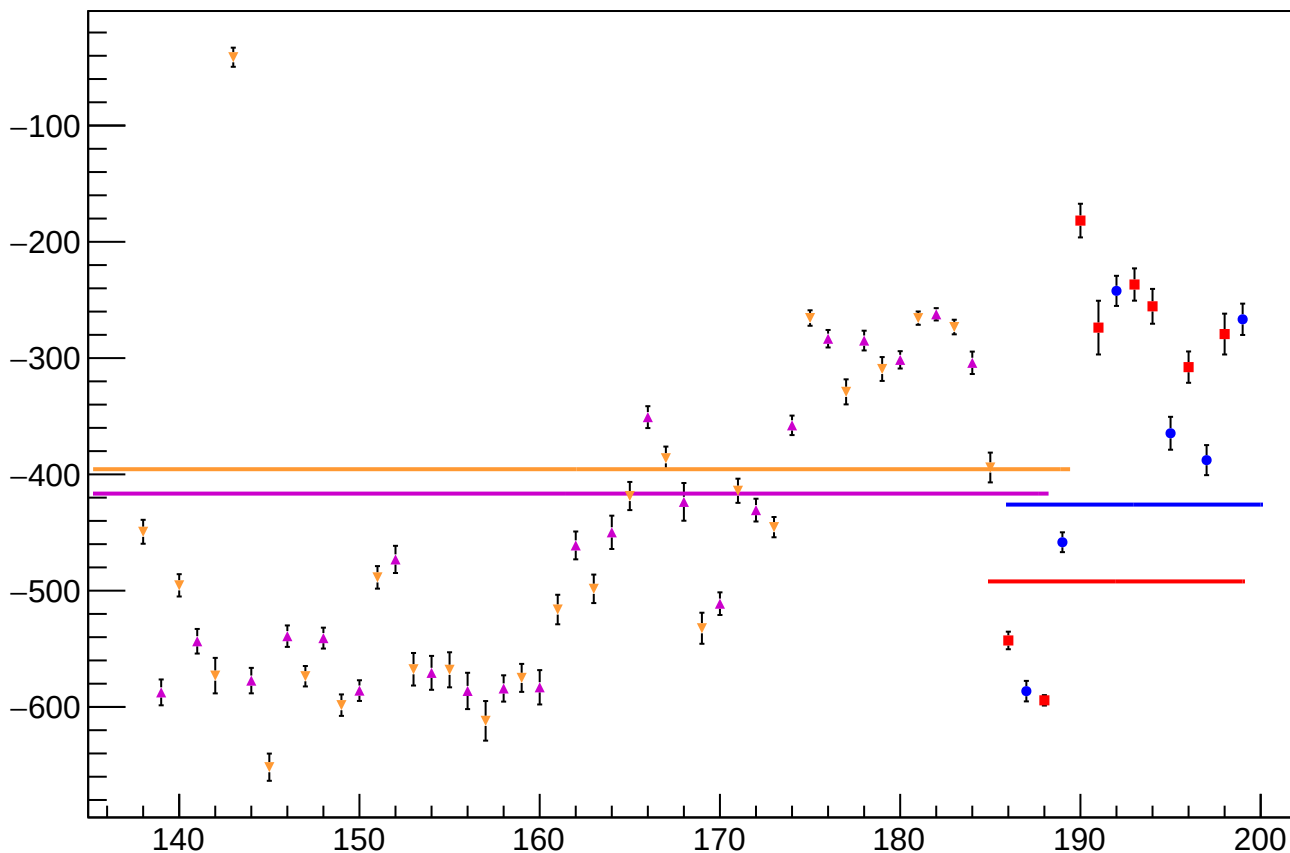
Right: -5.244 ± 0.030 $\chi^2/\text{NDF}: 1174003.5/49$

In: -15.023 ± 0.019 $\chi^2/\text{NDF}: 922304.9/45$

Out: -15.077 ± 0.018 $\chi^2/\text{NDF}: 972315.9/51$

All: -15.051 ± 0.013 $\chi^2/\text{NDF}: 1894625.1/97$

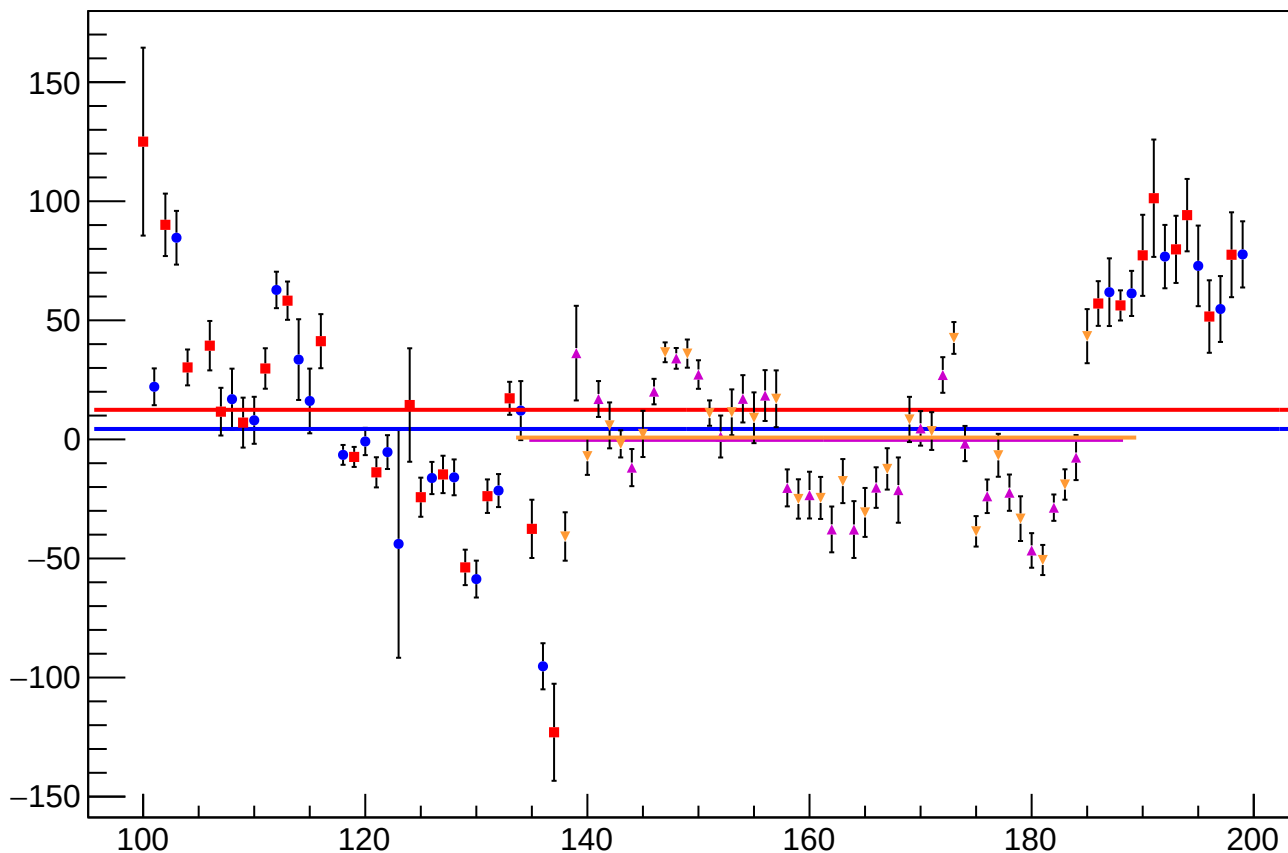
reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -425.975 ± 4.514 χ^2/NDF : 714.3/5
 Left Out: -395.547 ± 1.953 χ^2/NDF : 5946.5/24
 Right Out: -492.054 ± 3.292 χ^2/NDF : 2035.3/7
 Left In: -416.521 ± 2.005 χ^2/NDF : 3917.0/22

Left: -405.762 ± 1.399 χ^2/NDF : 9919.7/47
 Right: -469.112 ± 2.660 χ^2/NDF : 2889.5/13
 In: -418.079 ± 1.832 χ^2/NDF : 4635.0/28
 Out: -420.681 ± 1.680 χ^2/NDF : 8617.4/32
 All: -419.493 ± 1.238 χ^2/NDF : 13253.5/61

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: 12.420 ± 1.740 $\chi^2/\text{NDF}: 507.1/26$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

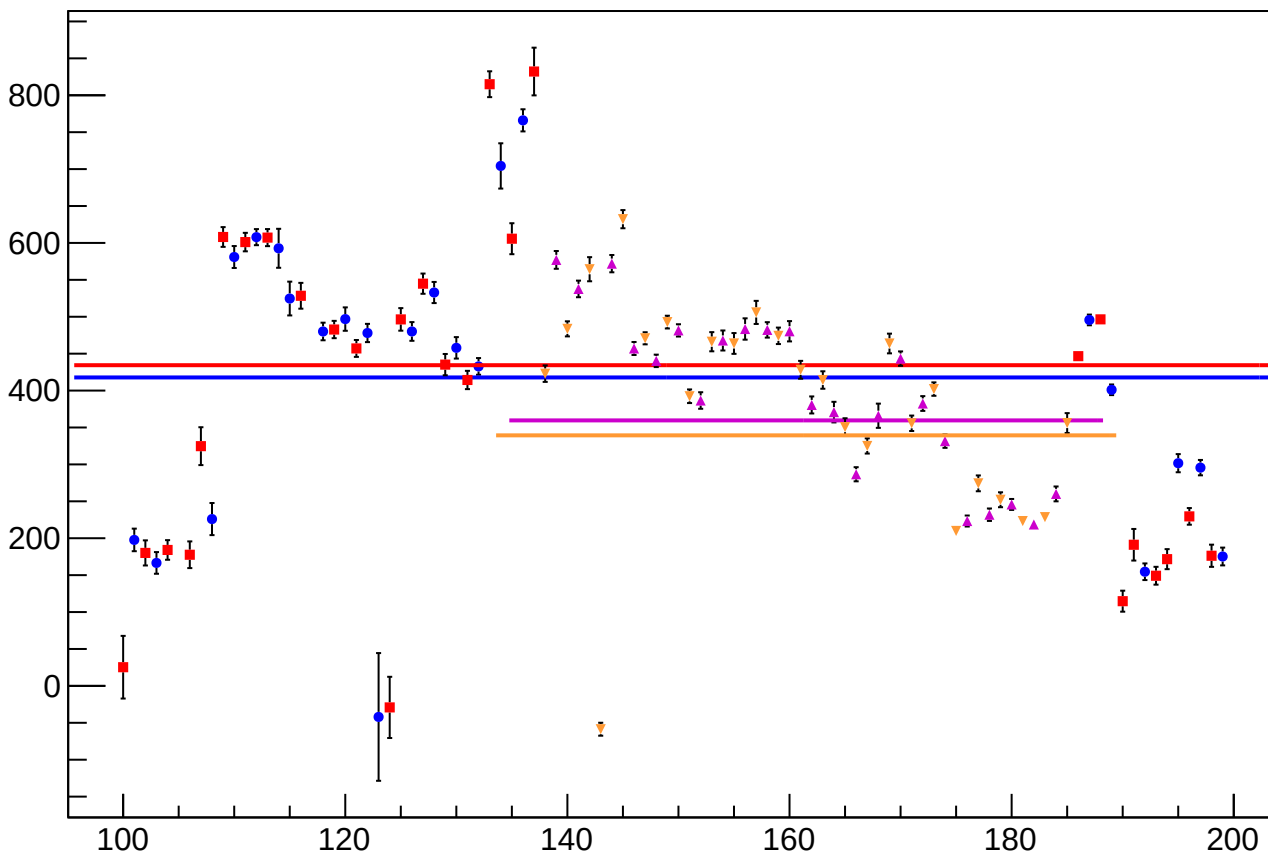
Right: 8.560 ± 1.254 $\chi^2/\text{NDF}: 989.4/49$

In: 1.772 ± 1.188 $\chi^2/\text{NDF}: 736.4/45$

Out: 5.746 ± 1.137 $\chi^2/\text{NDF}: 882.9/51$

All: 3.846 ± 0.822 $\chi^2/\text{NDF}: 1625.1/97$

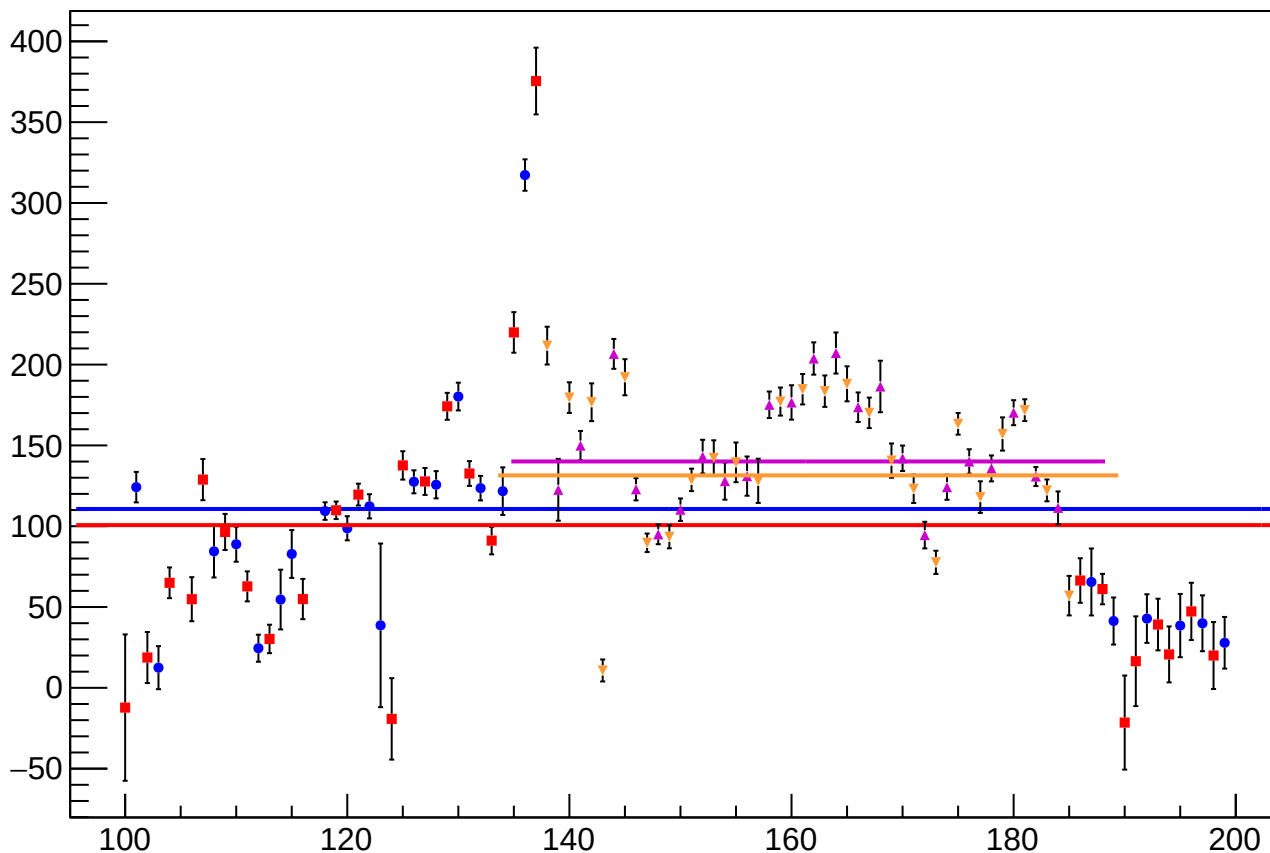
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



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: 434.379 ± 2.153 $\chi^2/\text{NDF}: 4901.7/26$
 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: 427.759 ± 1.669 $\chi^2/\text{NDF}: 8122.4/49$
 In: 380.829 ± 1.596 $\chi^2/\text{NDF}: 6903.3/45$
 Out: 382.476 ± 1.451 $\chi^2/\text{NDF}: 11467.9/51$
 All: 381.731 ± 1.073 $\chi^2/\text{NDF}: 18371.9/97$

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: 100.678 $\pm$ 2.055 χ^2 /NDF: 694.2/26

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

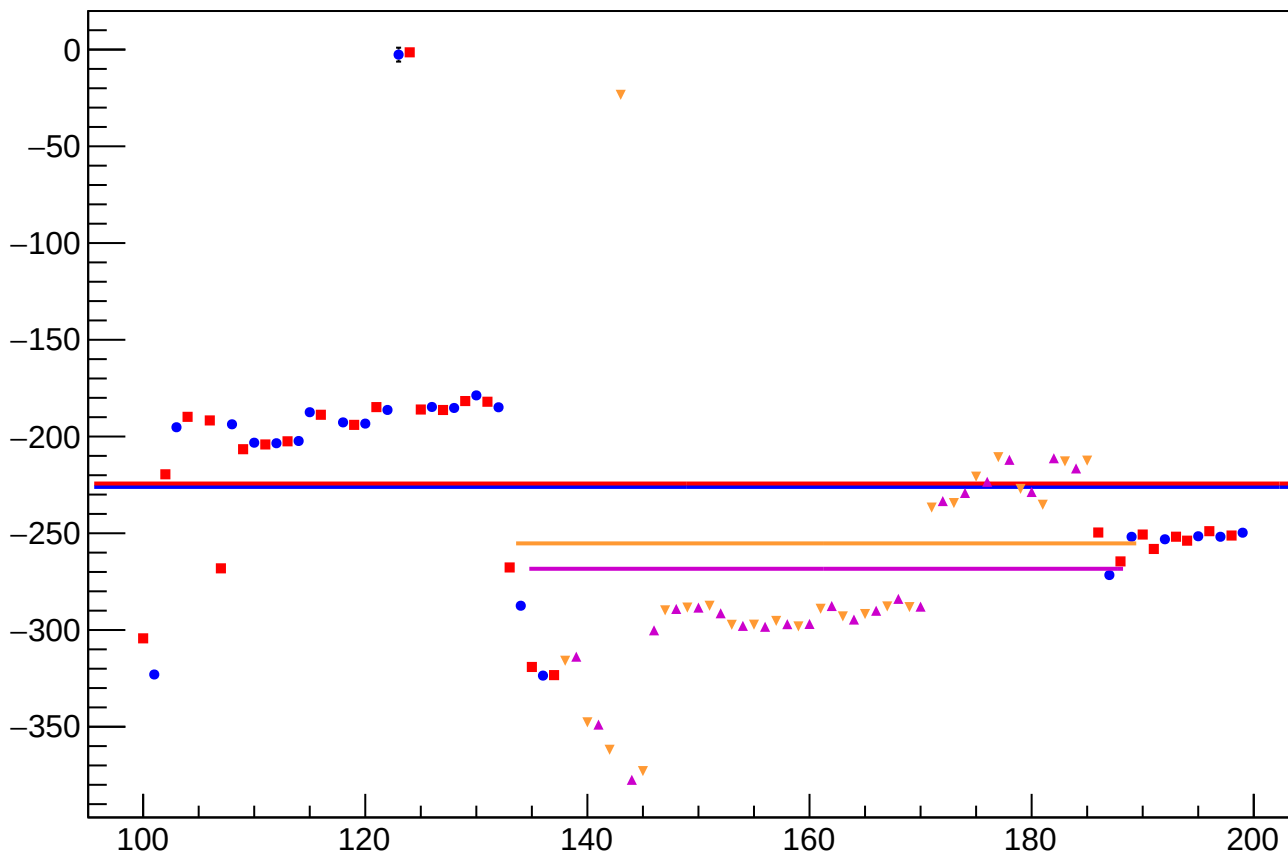
Right: 105.517 $\pm$ 1.476 χ^2 /NDF: 1526.5/49

In: 127.797 $\pm$ 1.370 χ^2 /NDF:1249.4/45

Out: 118.719 $\pm$ 1.322 χ^2 /NDF:1635.0/51

All: 123.097 $\pm$ 0.952 χ^2 /NDF: 2907.1/97

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -226.037+/-0.118 χ^2/NDF : 163357.1/22

Left Out: -255.232+/-0.082 χ^2/NDF : 728016.7/24

Right Out: -224.289+/-0.111 χ^2/NDF : 144536.1/26

Left In: -268.353+/-0.084 χ^2/NDF : 262479.3/22

Left: -261.661+/-0.059 χ^2/NDF : 1003051.2/47

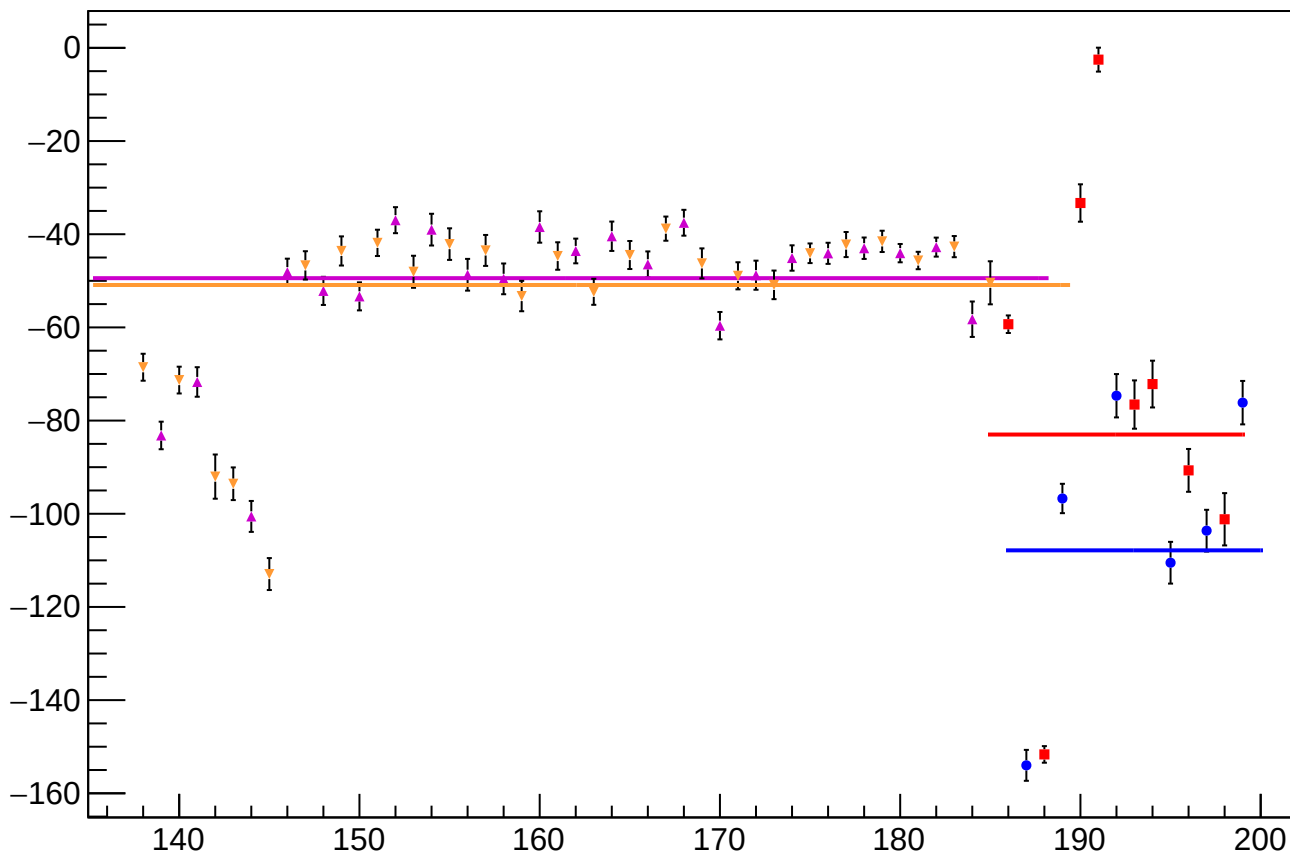
Right: -225.107+/-0.081 χ^2/NDF : 308009.3/49

In: -254.262+/-0.068 χ^2/NDF : 511106.1/45

Out: -244.308+/-0.066 χ^2/NDF : 922867.5/51

All: -249.110+/-0.047 χ^2/NDF : 1444968.4/97

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Left: -50.179 ± 0.409 χ^2/NDF : 1307.8/47

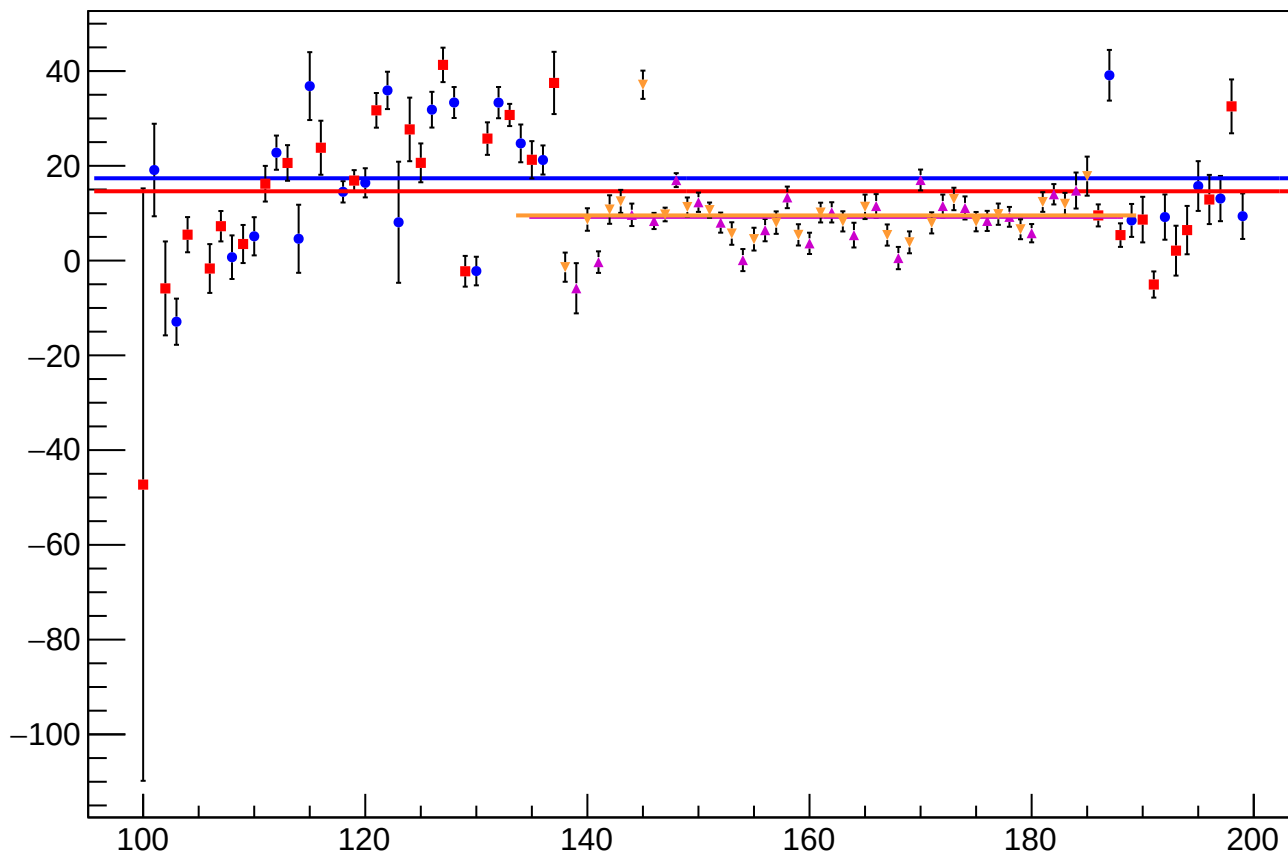
Right: -90.057 ± 0.861 χ^2/NDF : 3273.0/13

In: -56.186 ± 0.549 χ^2/NDF : 2005.0/28

Out: -58.623 ± 0.499 χ^2/NDF : 4316.2/32

All: -57.521 ± 0.369 χ^2/NDF : 6332.0/61

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.374 ± 0.825 χ^2/NDF : 237.0/22

Left Out: 9.530 ± 0.446 χ^2/NDF : 134.4/24

Right Out: 14.627 ± 0.706 χ^2/NDF : 311.3/26

Left In: 9.231 ± 0.462 χ^2/NDF : 124.0/22

Left: 9.386 ± 0.321 χ^2/NDF : 258.5/47

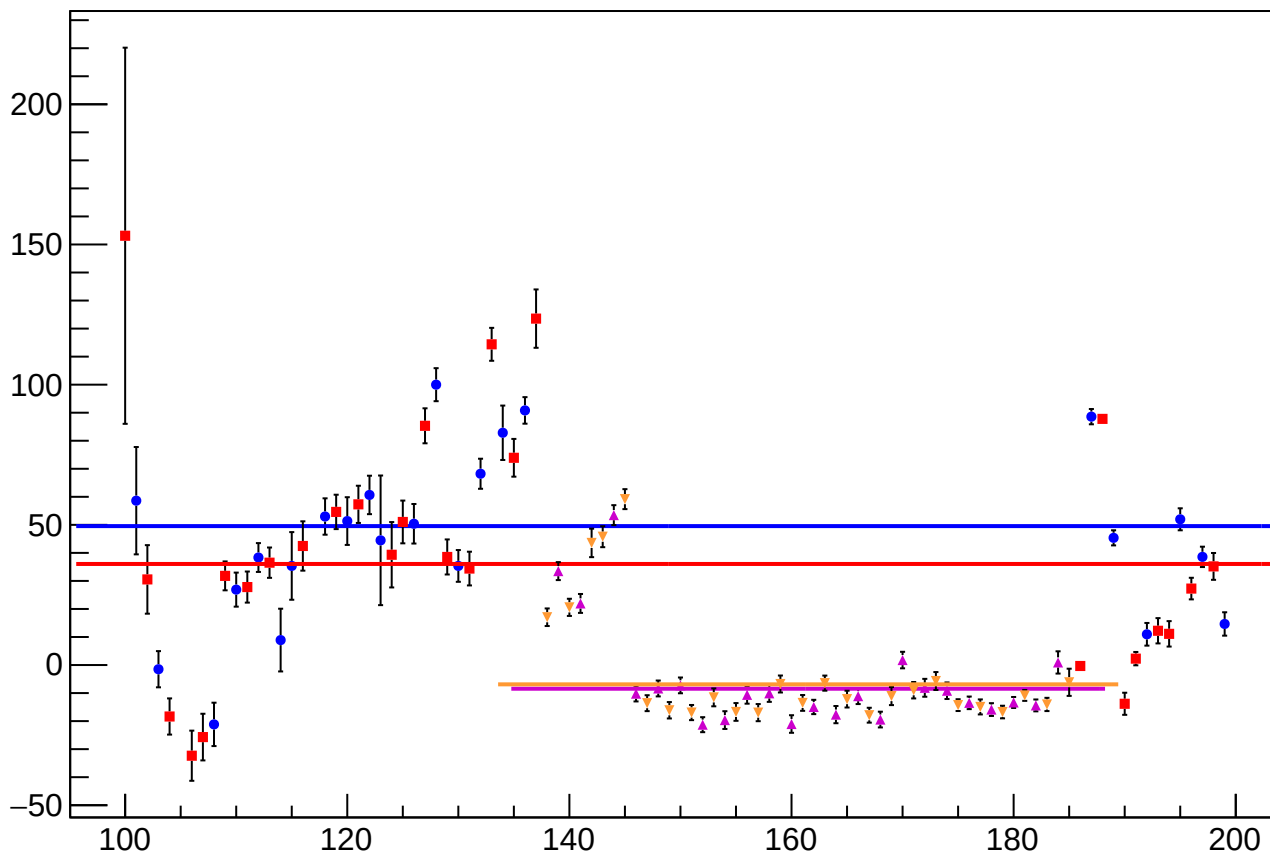
Right: 15.789 ± 0.537 χ^2/NDF : 554.7/49

In: 11.173 ± 0.403 χ^2/NDF : 435.2/45

Out: 10.982 ± 0.377 χ^2/NDF : 482.8/51

All: 11.072 ± 0.275 χ^2/NDF : 918.1/97

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: 36.049 ± 0.753 $\chi^2/\text{NDF}: 2861.4/26$

Left In: -8.451 ± 0.580 $\chi^2/\text{NDF}: 688.9/22$

Left: -7.658 ± 0.407 $\chi^2/\text{NDF}: 1606.8/47$

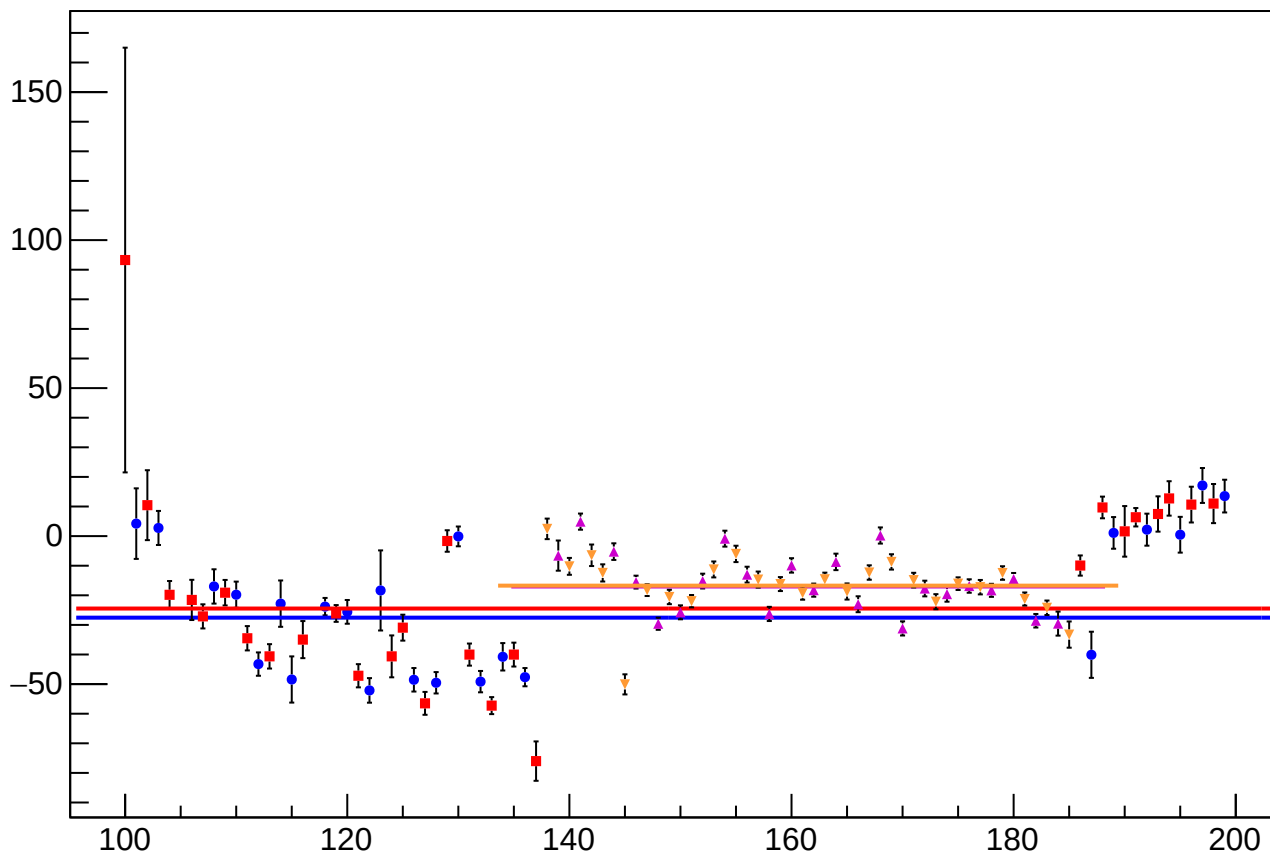
Right: 40.568 ± 0.615 $\chi^2/\text{NDF}: 3709.1/49$

In: 4.859 ± 0.509 $\chi^2/\text{NDF}: 3725.5/45$

Out: 8.775 ± 0.455 $\chi^2/\text{NDF}: 5838.5/51$

All: 7.035 ± 0.339 $\chi^2/\text{NDF}: 9596.9/97$

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -27.549 ± 0.958 $\chi^2/\text{NDF}: 516.4/22$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -24.468 ± 0.845 $\chi^2/\text{NDF}: 755.7/26$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

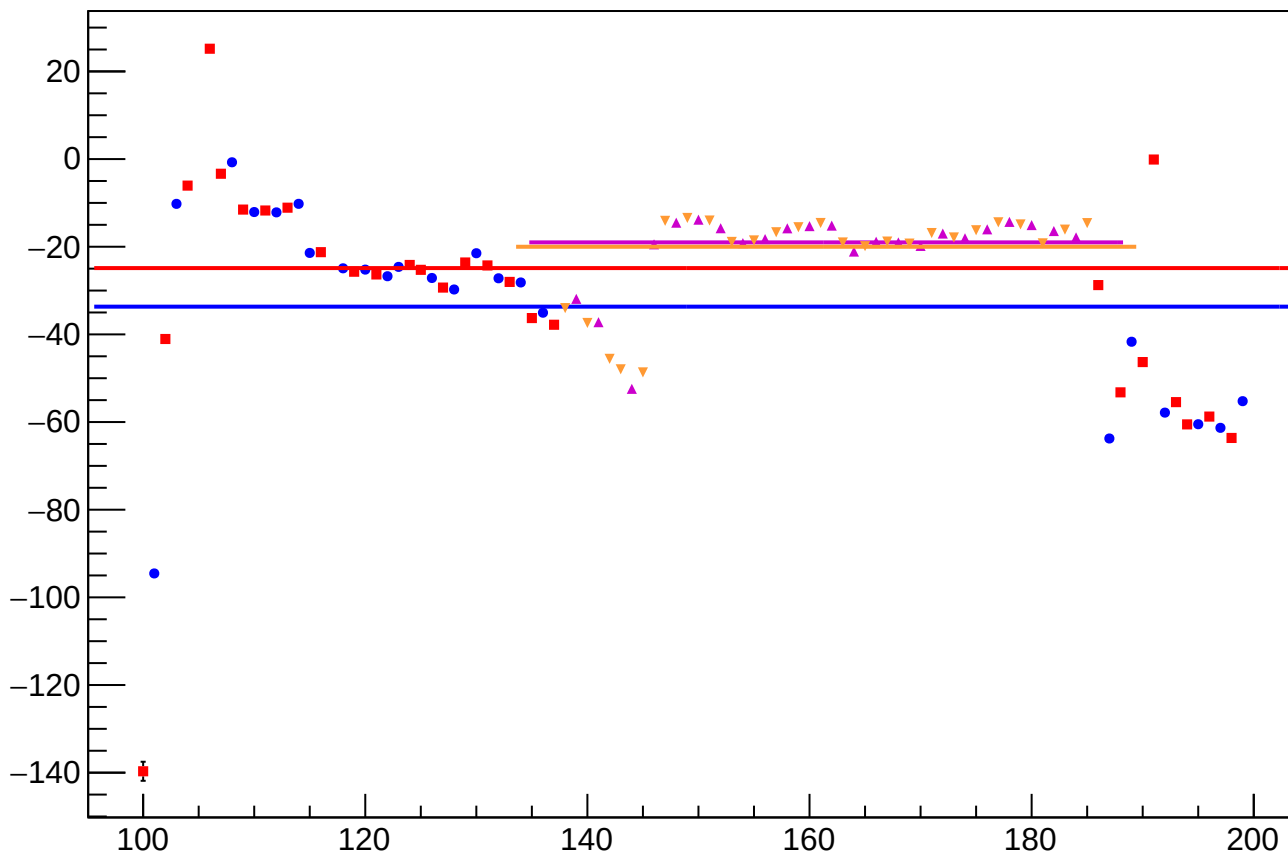
Right: -25.816 ± 0.634 $\chi^2/\text{NDF}: 1278.0/49$

In: -19.431 ± 0.458 $\chi^2/\text{NDF}: 937.1/45$

Out: -18.778 ± 0.435 $\chi^2/\text{NDF}: 1040.6/51$

All: -19.087 ± 0.315 $\chi^2/\text{NDF}: 1978.8/97$

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: -24.872+/-0.040 χ^2/NDF : 352329.5/26

Left In: -19.007+/-0.024 χ^2/NDF : 90873.3/22

Left: -19.514+/-0.017 χ^2/NDF : 237400.2/47

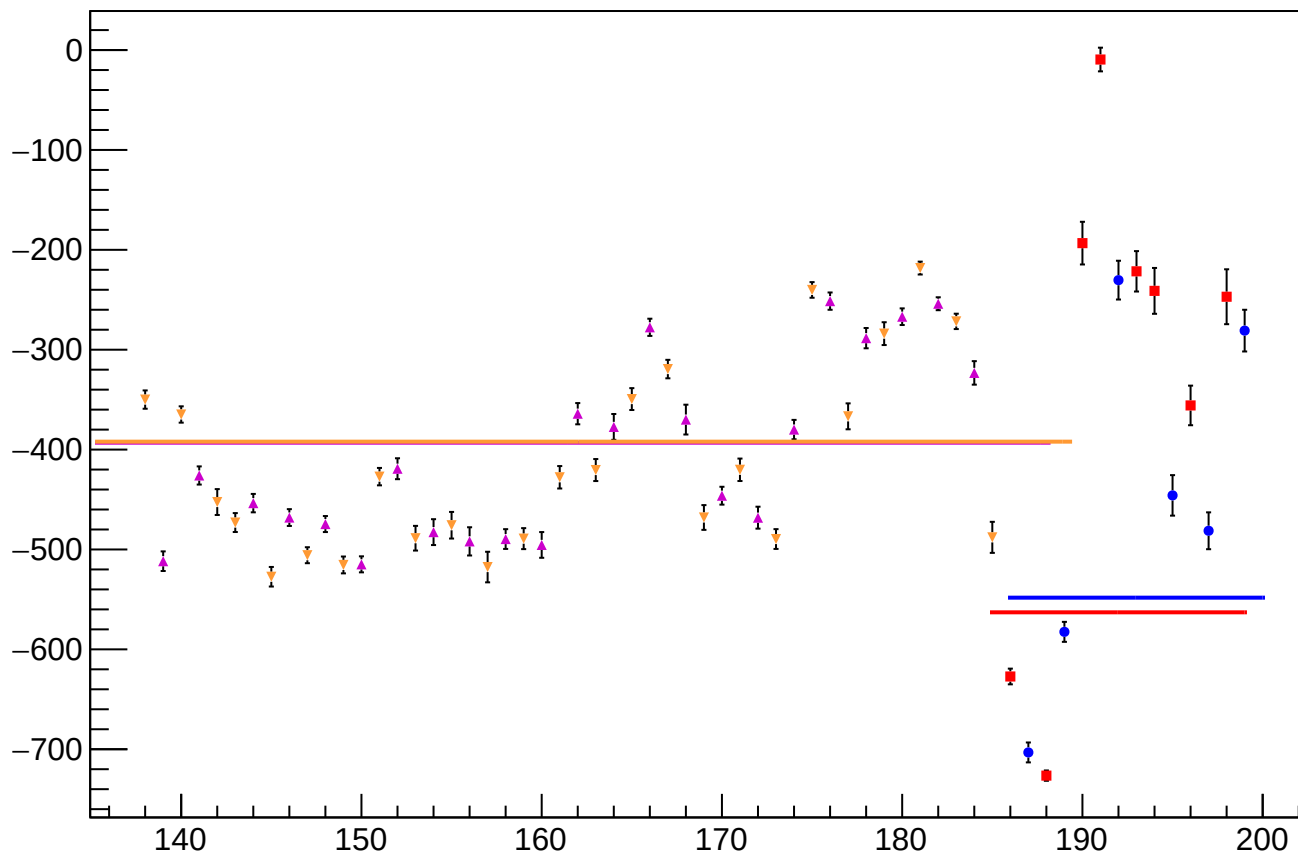
Right: -28.527+/-0.031 χ^2/NDF : 550260.4/49

In: -21.915+/-0.021 χ^2/NDF : 344907.2/45

Out: -21.232+/-0.020 χ^2/NDF : 508952.8/51

All: -21.556+/-0.015 χ^2/NDF : 854404.6/97

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: -562.929+/-3.753 χ^2/NDF : 4264.4/7

Left In: -393.113+/-2.006 χ^2/NDF : 2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

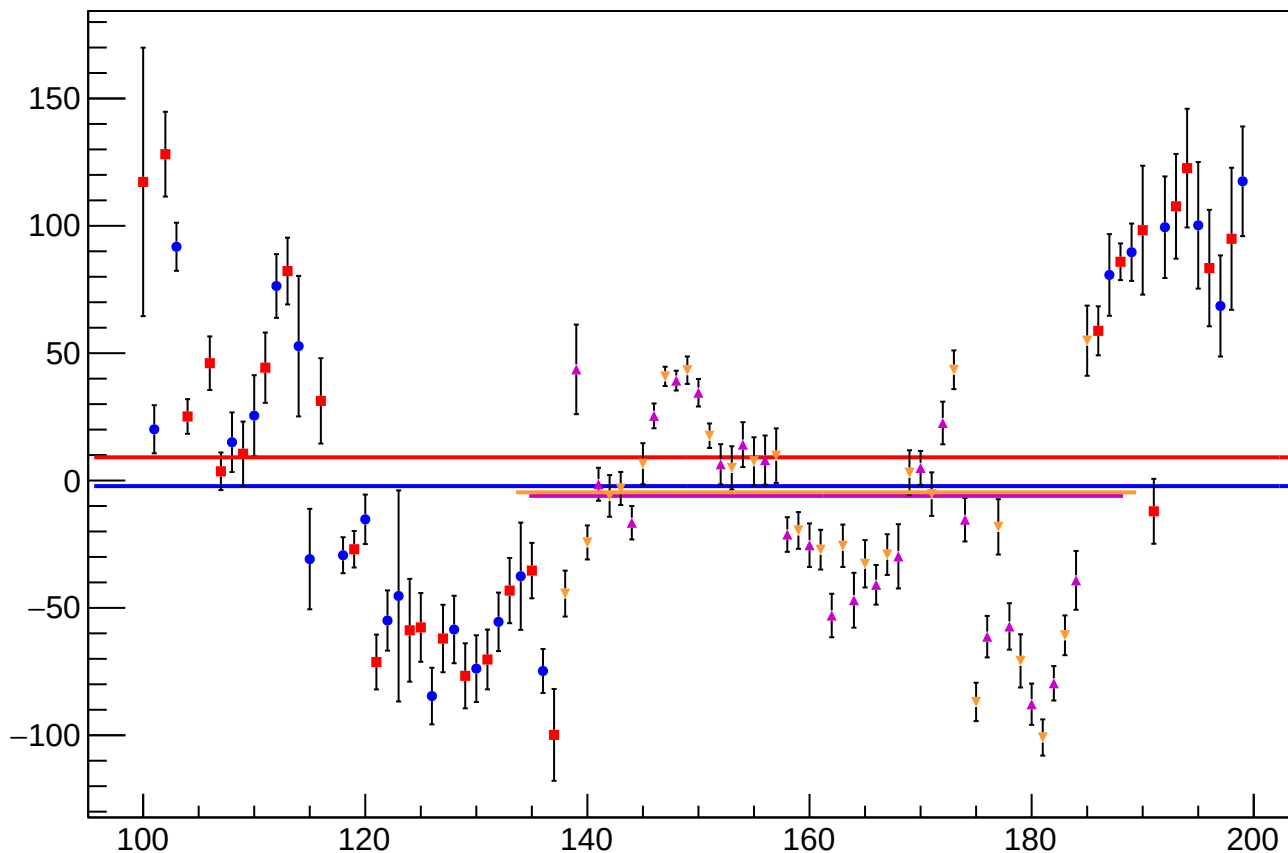
Right: -558.530+/-3.141 χ^2/NDF : 4993.3/13

In: -410.008+/-1.893 χ^2/NDF : 3629.3/28

Out: -428.859+/-1.742 χ^2/NDF : 8607.7/32

All: -420.216+/-1.282 χ^2/NDF : 12290.7/61

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: 9.117 ± 2.283 $\chi^2/\text{NDF}: 641.9/26$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

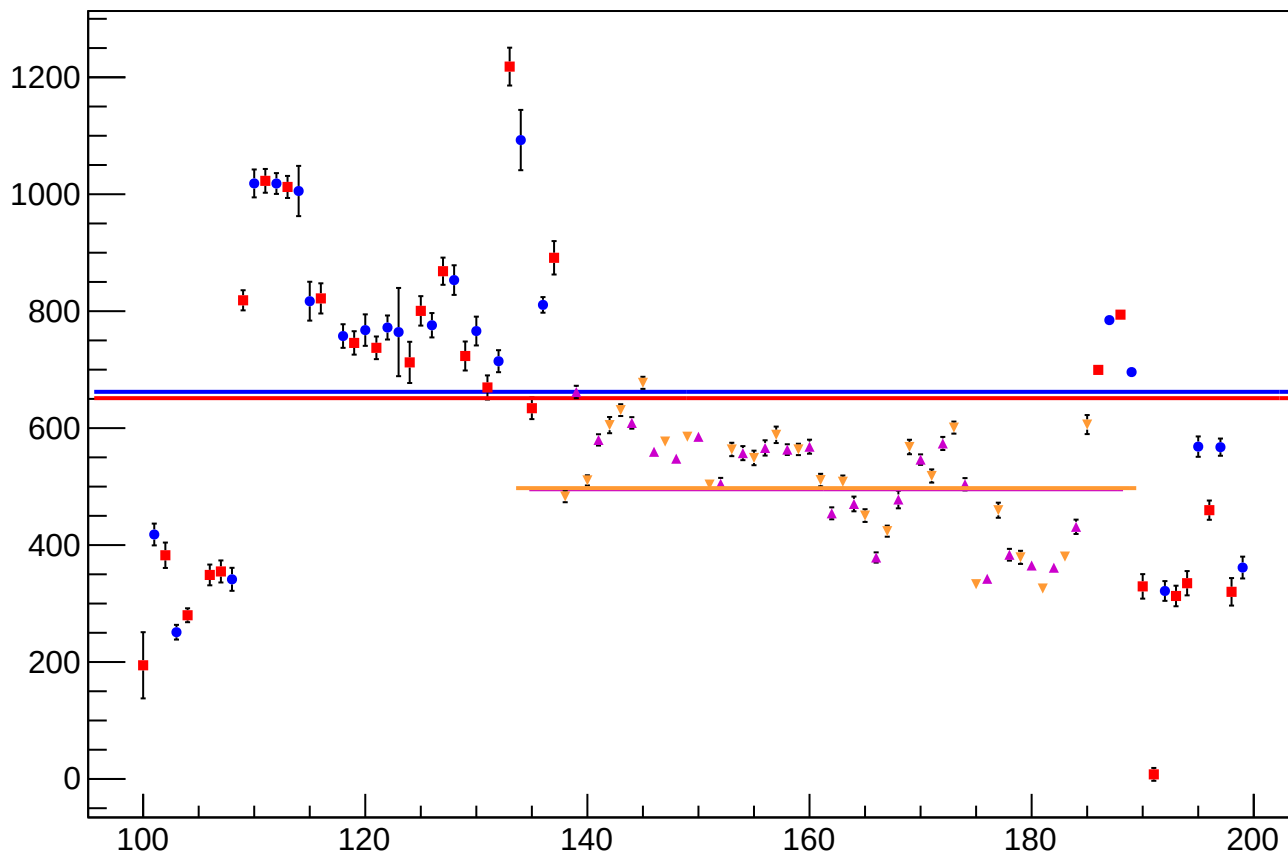
Right: 4.232 ± 1.721 $\chi^2/\text{NDF}: 1223.5/49$

In: -5.058 ± 1.312 $\chi^2/\text{NDF}: 1226.7/45$

Out: -0.627 ± 1.231 $\chi^2/\text{NDF}: 1440.5/51$

All: -2.702 ± 0.898 $\chi^2/\text{NDF}: 2673.3/97$

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: 651.251+/-2.591 χ^2/NDF : 8966.0/26

Left In: 495.454+/-1.992 χ^2/NDF : 2253.8/22

Left: 496.430+/-1.399 χ^2/NDF : 4868.9/47

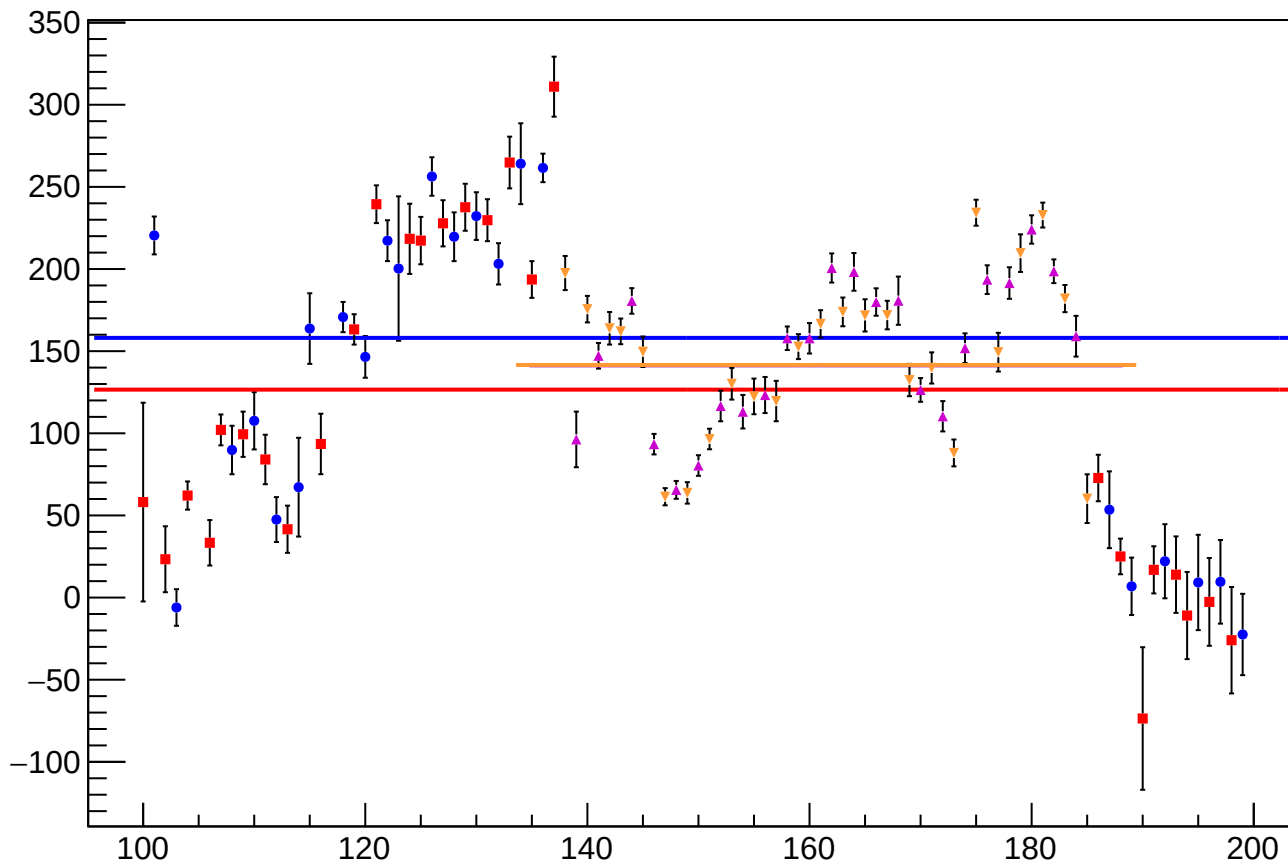
Right: 655.116+/-2.078 χ^2/NDF : 12536.4/49

In: 536.574+/-1.729 χ^2/NDF : 7544.5/45

Out: 553.595+/-1.566 χ^2/NDF : 13818.6/51

All: 545.924+/-1.161 χ^2/NDF : 21416.4/97

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: 126.575 ± 2.750 $\chi^2/\text{NDF}: 1026.8/26$

Left In: 141.360 ± 1.748 $\chi^2/\text{NDF}: 741.2/22$

Left: 141.478 ± 1.218 $\chi^2/\text{NDF}: 1700.8/47$

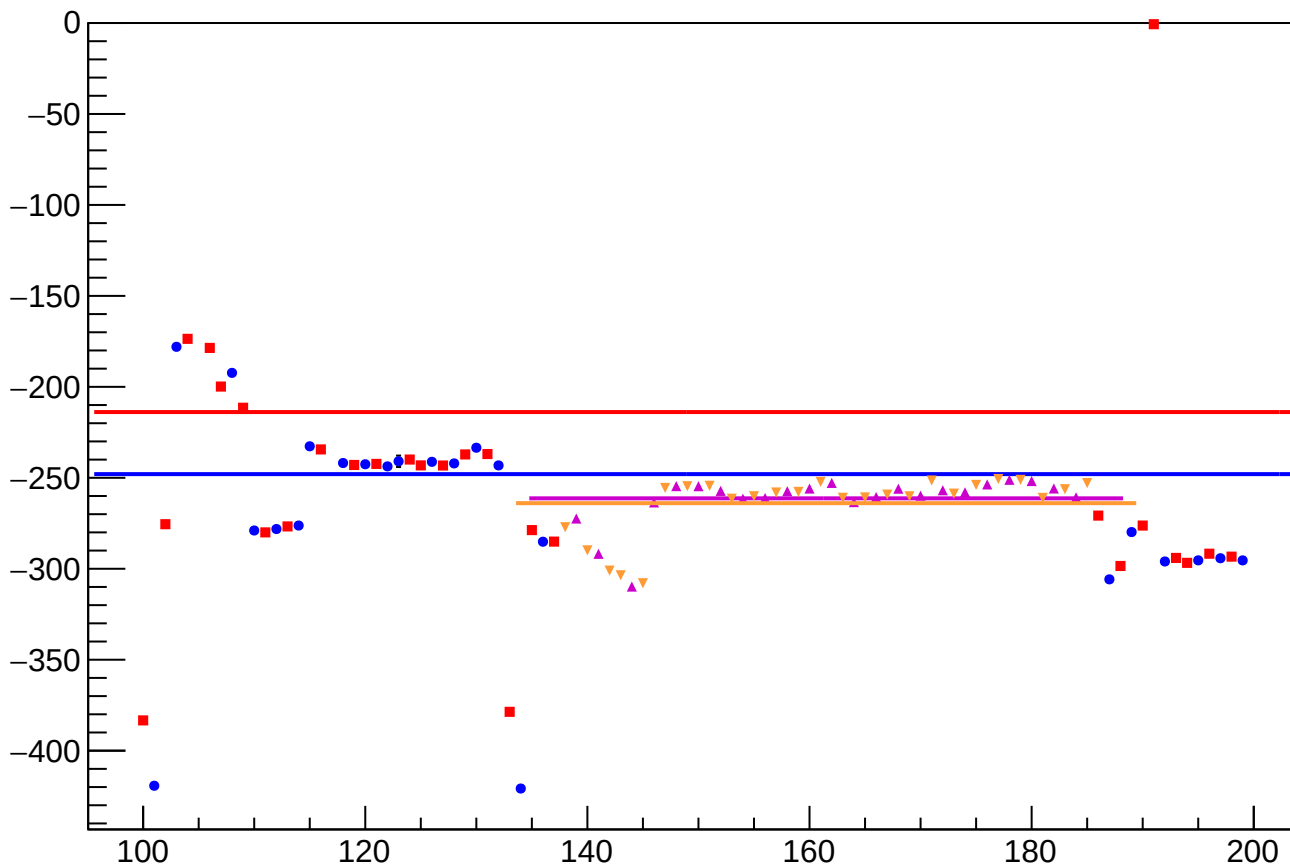
Right: 140.618 ± 2.047 $\chi^2/\text{NDF}: 1994.4/49$

In: 145.462 ± 1.519 $\chi^2/\text{NDF}: 1672.8/45$

Out: 137.442 ± 1.445 $\chi^2/\text{NDF}: 2007.9/51$

All: 141.253 ± 1.047 $\chi^2/\text{NDF}: 3695.3/97$

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: -213.857+/-0.128 χ^2/NDF : 468736.0/26

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

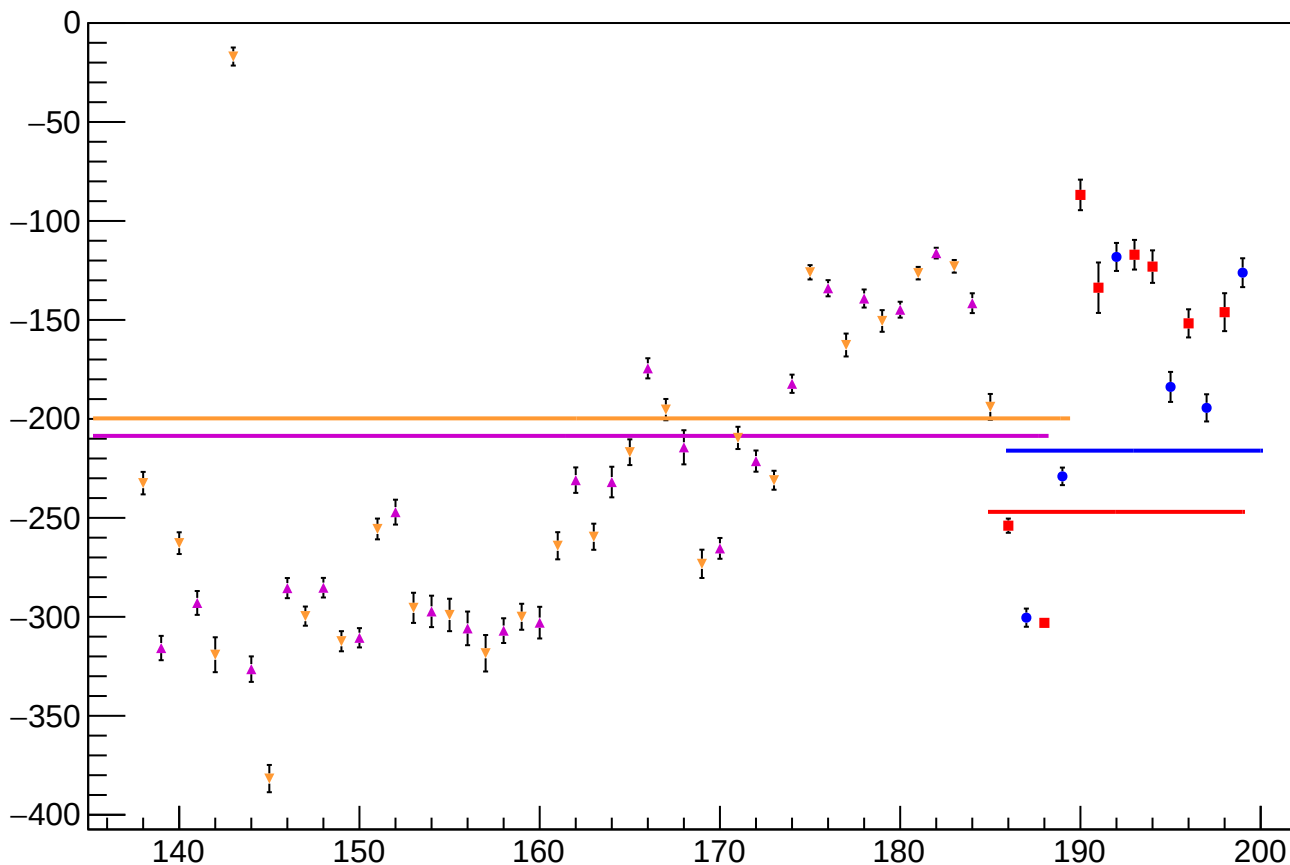
Right: -228.772+/-0.096 χ^2/NDF : 688036.6/49

In: -258.087+/-0.071 χ^2/NDF : 218139.9/45

Out: -249.629+/-0.069 χ^2/NDF : 616434.6/51

All: -253.690+/-0.050 χ^2/NDF : 841860.2/97

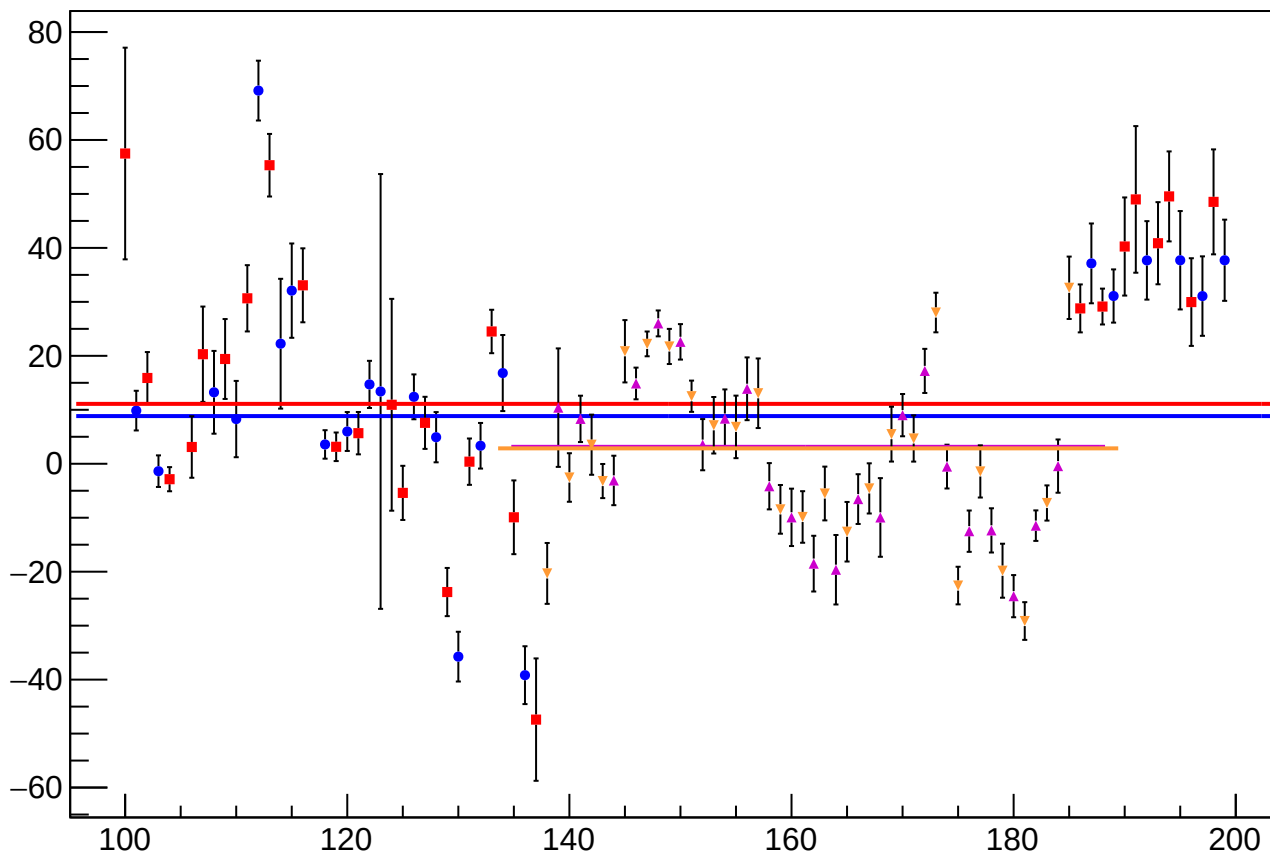
reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -216.039+/-2.386 χ^2 /NDF: 717.5/5
 Left Out: -199.741+/-1.061 χ^2 /NDF:6361.5/24
 Right Out: -246.964+/-1.710 χ^2 /NDF: 1891.7/7
 Left In: -208.579+/-1.082 χ^2 /NDF:4805.1/22

Left: -204.073+/-0.758 χ^2 /NDF: 11200.6/47
 Right: -236.465+/-1.390 χ^2 /NDF: 2720.2/13
 In: -209.853+/-0.986 χ^2 /NDF:5530.7/28
 Out: -212.867+/-0.902 χ^2 /NDF:8803.7/32
 All: -211.493+/-0.665 χ^2 /NDF: 14339.5/61

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: 11.097 ± 0.958 $\chi^2/\text{NDF}: 385.3/26$

Left In: 3.136 ± 0.857 $\chi^2/\text{NDF}: 319.8/22$

Left: 2.988 ± 0.592 $\chi^2/\text{NDF}: 739.7/47$

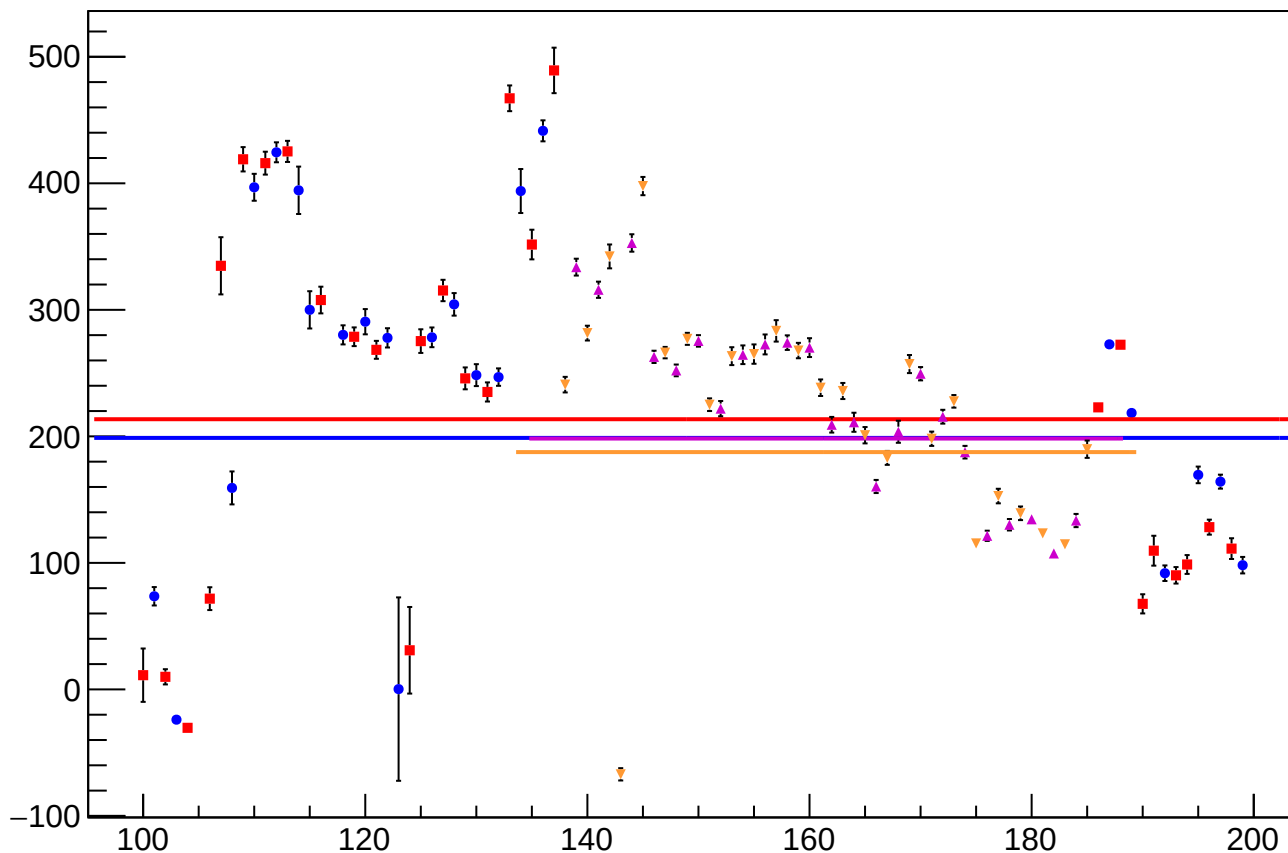
Right: 10.048 ± 0.702 $\chi^2/\text{NDF}: 796.3/49$

In: 5.465 ± 0.659 $\chi^2/\text{NDF}: 746.4/45$

Out: 6.339 ± 0.623 $\chi^2/\text{NDF}: 847.8/51$

All: 5.926 ± 0.453 $\chi^2/\text{NDF}: 1595.1/97$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 198.784 $\pm$ 1.413 χ^2 /NDF: 7729.2/22

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 213.543 $\pm$ 1.136 χ^2 /NDF: 10709.9/26

Left In: 198.269 $\pm$ 1.082 χ^2 /NDF: 4515.8/22

Left: 192.839 $\pm$ 0.759 χ^2 /NDF: 11647.5/47

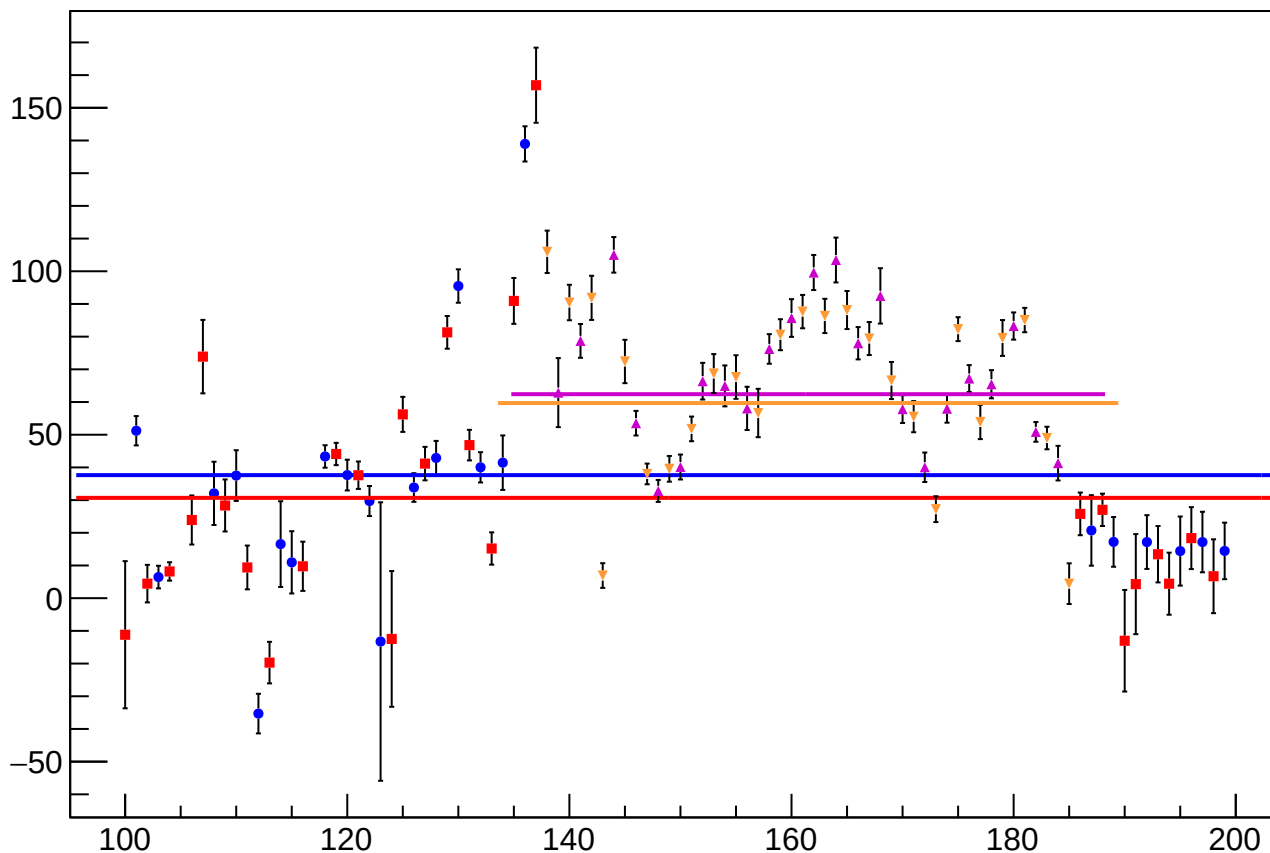
Right: 207.749 $\pm$ 0.885 χ^2 /NDF: 18505.4/49

In: 198.459 $\pm$ 0.859 χ^2 /NDF: 12245.1/45

Out: 199.730 $\pm$ 0.777 χ^2 /NDF: 18070.1/51

All: 199.158 $\pm$ 0.576 χ^2 /NDF: 30316.4/97

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: 30.690 $\pm$ 1.152 χ^2 /NDF: 582.7/26

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

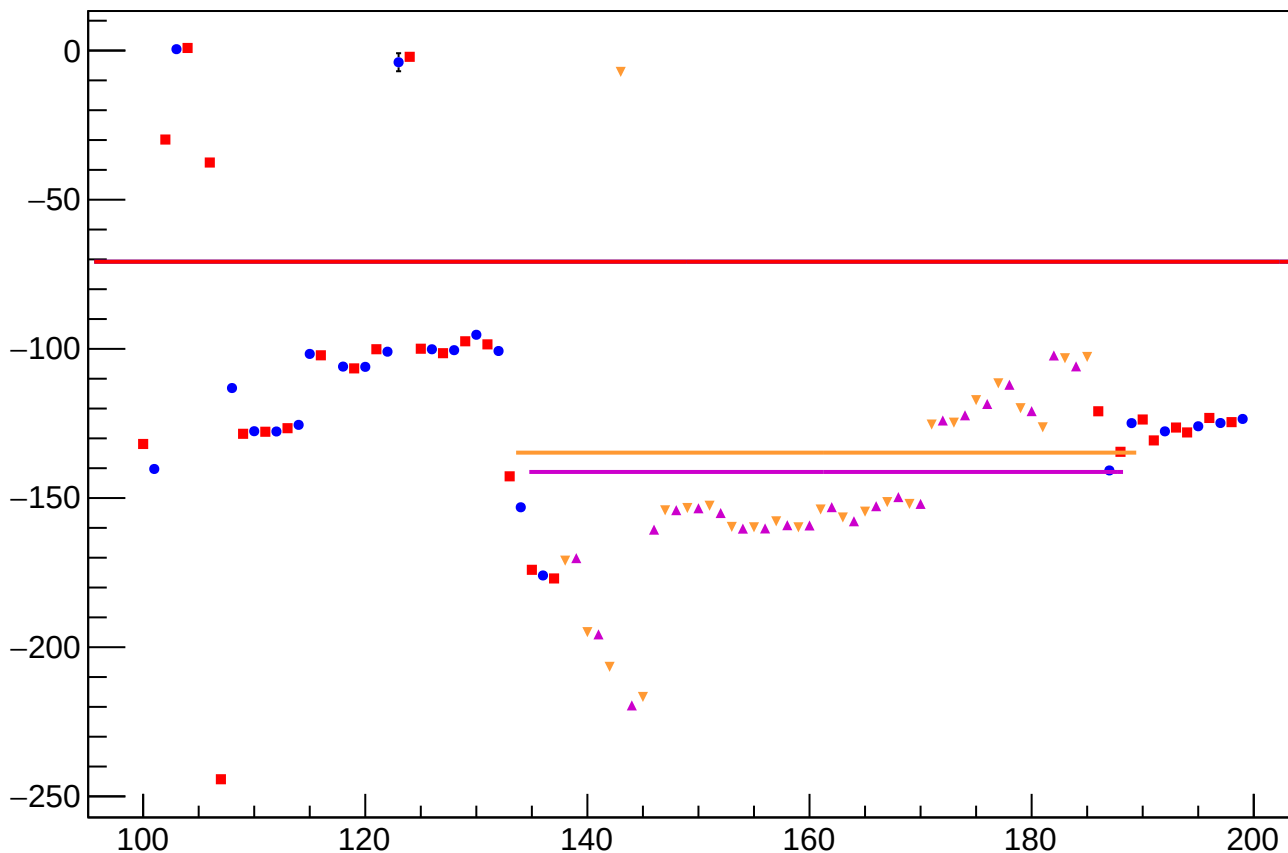
Right: 33.985 $\pm$ 0.835 χ^2 /NDF: 1370.7/49

In: 52.691 $\pm$ 0.760 χ^2 /NDF: 1430.3/45

Out: 48.082 $\pm$ 0.729 χ^2 /NDF: 1720.4/51

All: 50.291 $\pm$ 0.526 χ^2 /NDF: 3169.9/97

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -70.765 ± 0.056 $\chi^2/\text{NDF}: 1333590.1/22$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -70.782 ± 0.053 $\chi^2/\text{NDF}: 1322029.9/26$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

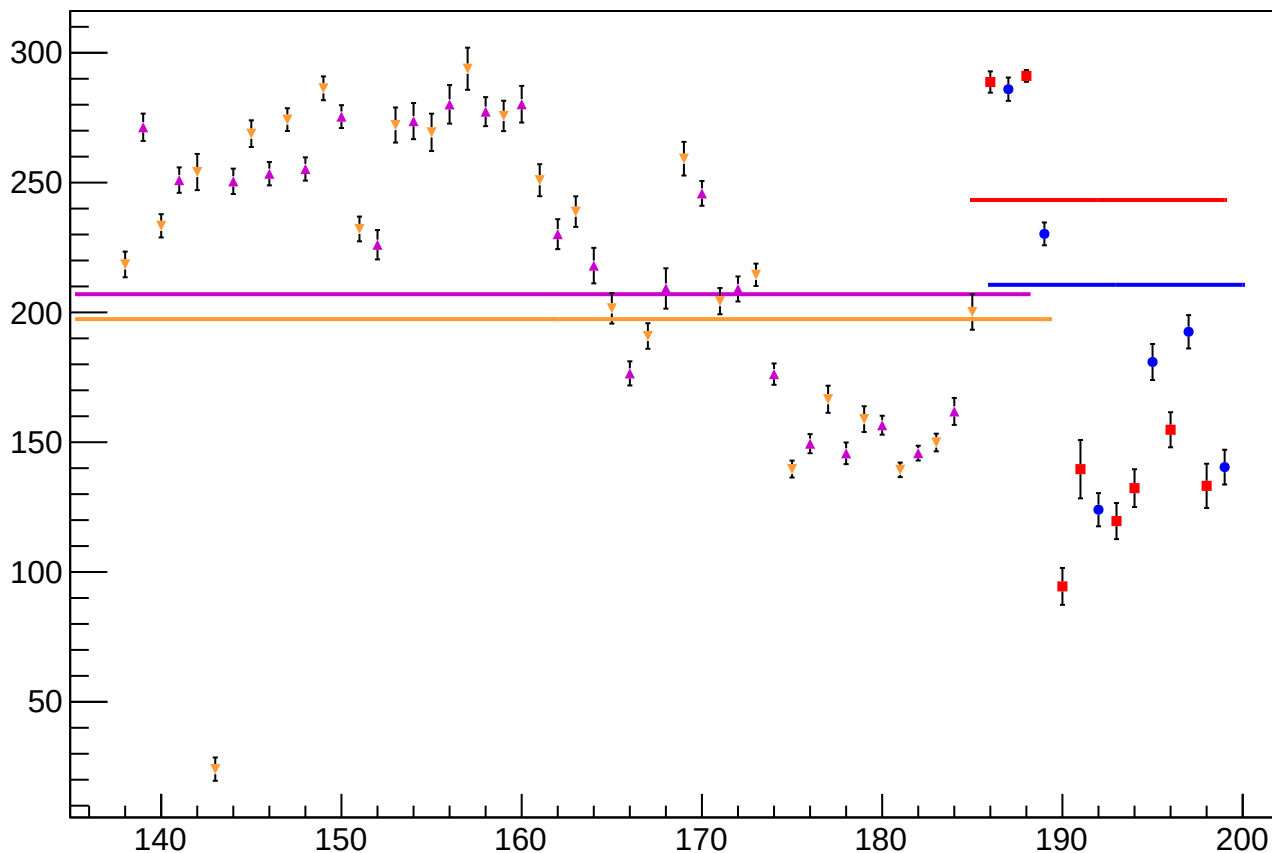
Right: -70.774 ± 0.038 $\chi^2/\text{NDF}: 2655620.1/49$

In: -113.157 ± 0.035 $\chi^2/\text{NDF}: 2646388.4/45$

Out: -108.449 ± 0.034 $\chi^2/\text{NDF}: 2977616.4/51$

All: -110.737 ± 0.024 $\chi^2/\text{NDF}: 5633243.0/97$

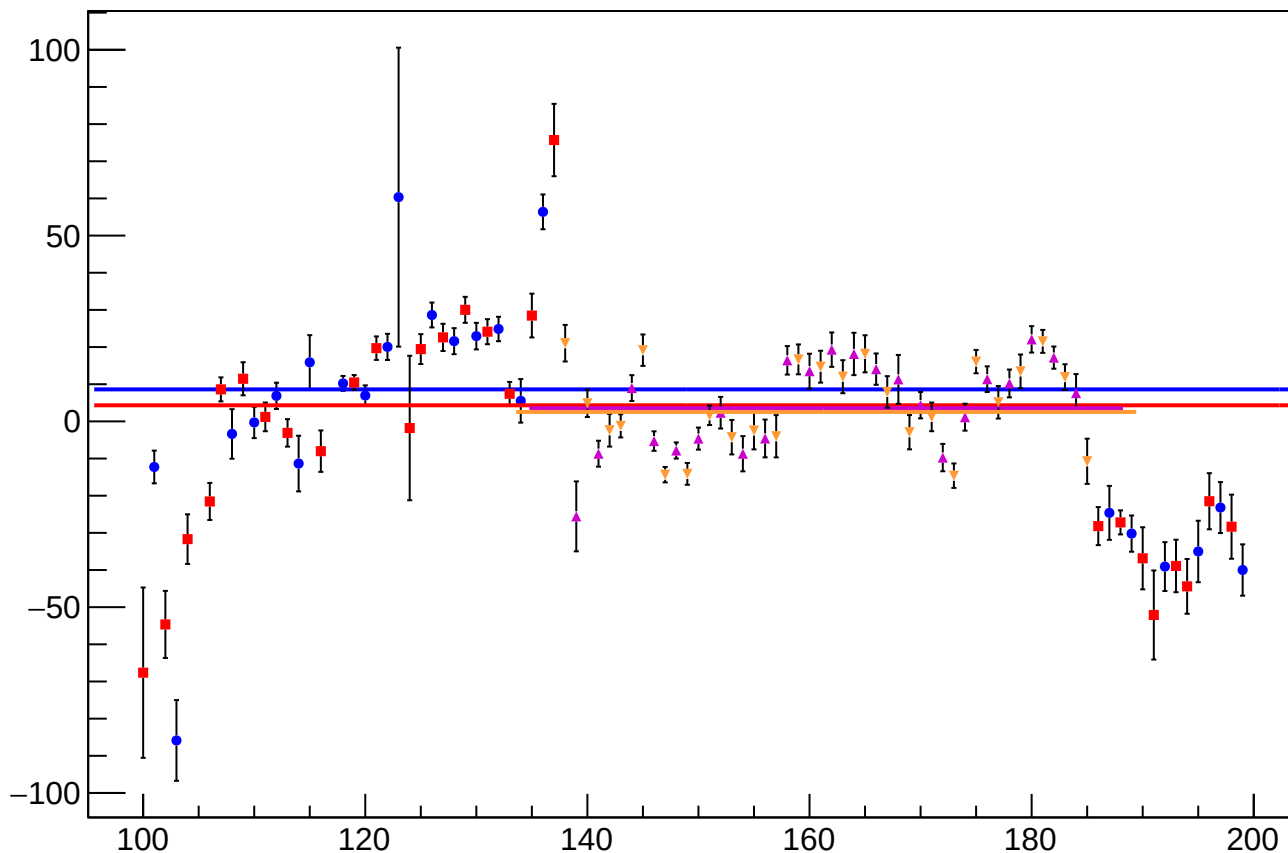
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 210.630 $\pm$ 2.277 χ^2 /NDF: 620.1/5
 Left Out: 197.408 $\pm$ 0.963 χ^2 /NDF:4384.2/24
 Right Out: 243.297 $\pm$ 1.679 χ^2 /NDF: 1975.1/7
 Left In: 207.014 $\pm$ 0.990 χ^2 /NDF:2611.5/22

Left: 202.077 $\pm$ 0.690 χ^2 /NDF: 7044.1/47
 Right: 231.790 $\pm$ 1.351 χ^2 /NDF: 2728.5/13
 In: 207.590 $\pm$ 0.908 χ^2 /NDF:3233.7/28
 Out: 208.766 $\pm$ 0.835 χ^2 /NDF:6921.5/32
 All: 208.227 $\pm$ 0.615 χ^2 /NDF: 10156.1/61

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.611 ± 0.885 $\chi^2/\text{NDF}: 557.6/22$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 4.325 ± 0.839 $\chi^2/\text{NDF}: 643.8/26$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

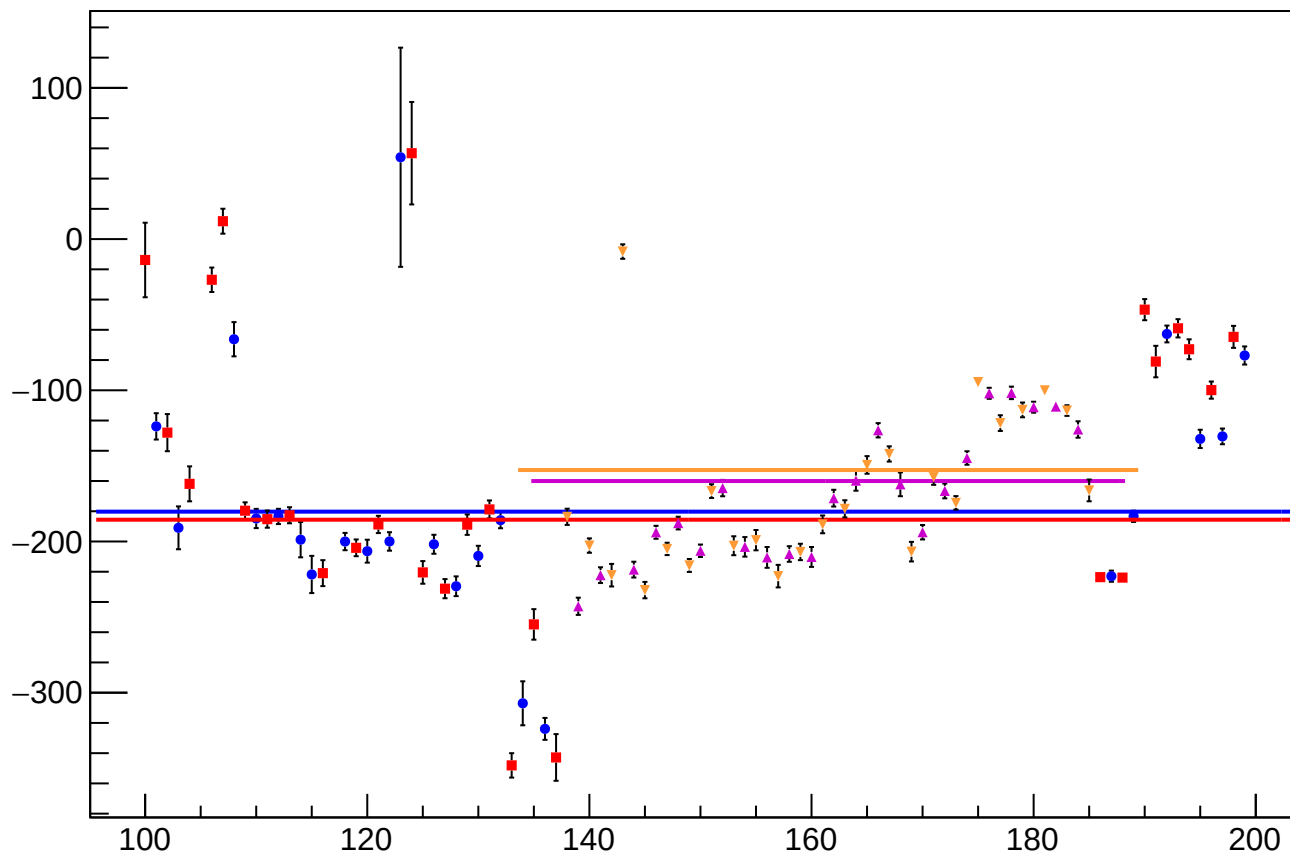
Right: 6.354 ± 0.609 $\chi^2/\text{NDF}: 1213.8/49$

In: 5.749 ± 0.583 $\chi^2/\text{NDF}: 768.0/45$

Out: 3.326 ± 0.555 $\chi^2/\text{NDF}: 921.8/51$

All: 4.480 ± 0.402 $\chi^2/\text{NDF}: 1698.9/97$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -180.264+/-1.314 χ^2/NDF : 1795.1/22

Left Out: -152.738+/-0.967 χ^2/NDF :3077.8/24

Right Out: -185.591+/-1.076 χ^2/NDF : 4046.6/26

Left In: -160.021+/-0.989 χ^2/NDF :2024.4/22

Left: -156.299+/-0.691 χ^2/NDF : 5129.9/47

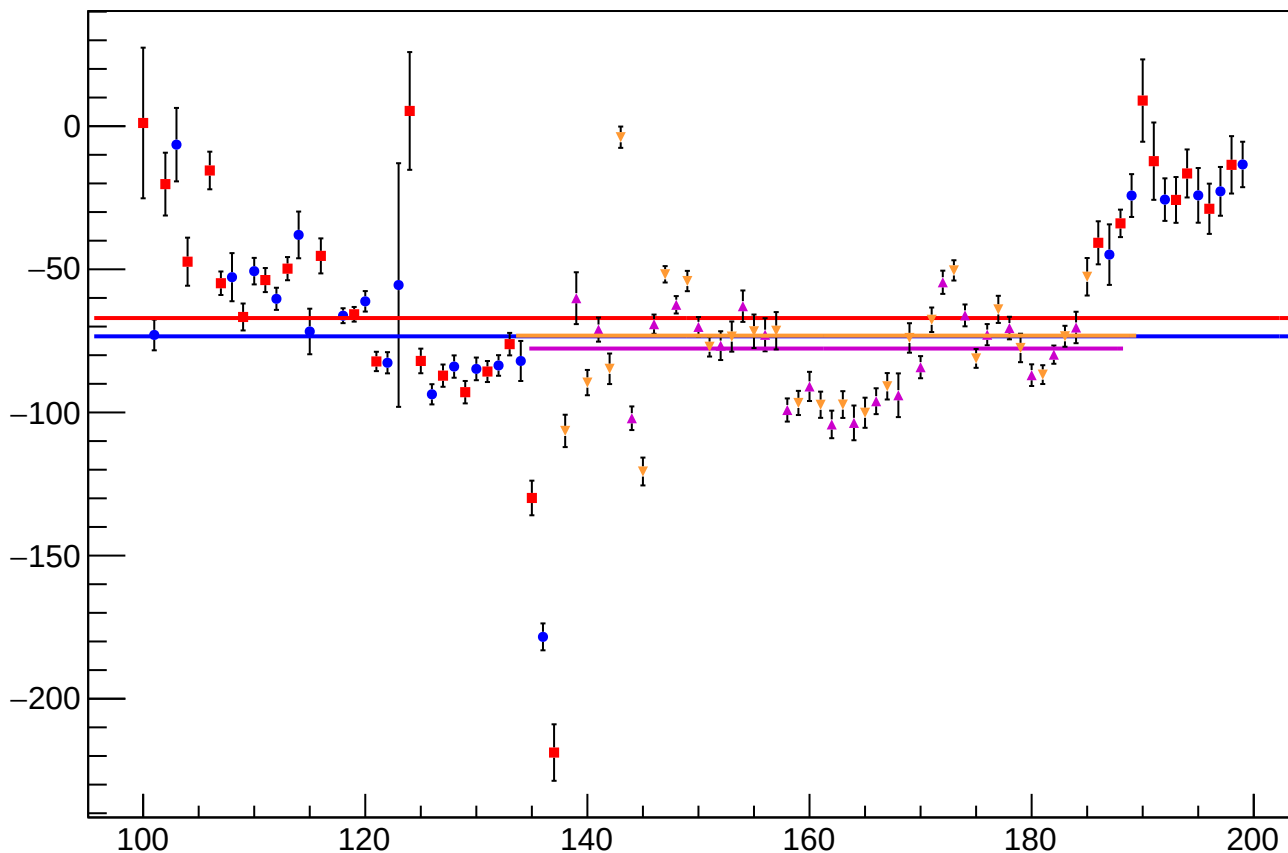
Right: -183.453+/-0.832 χ^2/NDF : 5851.6/49

In: -167.338+/-0.790 χ^2/NDF :3971.0/45

Out: -167.419+/-0.719 χ^2/NDF :7640.3/51

All: -167.383+/-0.532 χ^2/NDF : 11611.3/97

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: -67.025 ± 0.988 $\chi^2/\text{NDF}: 847.1/26$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

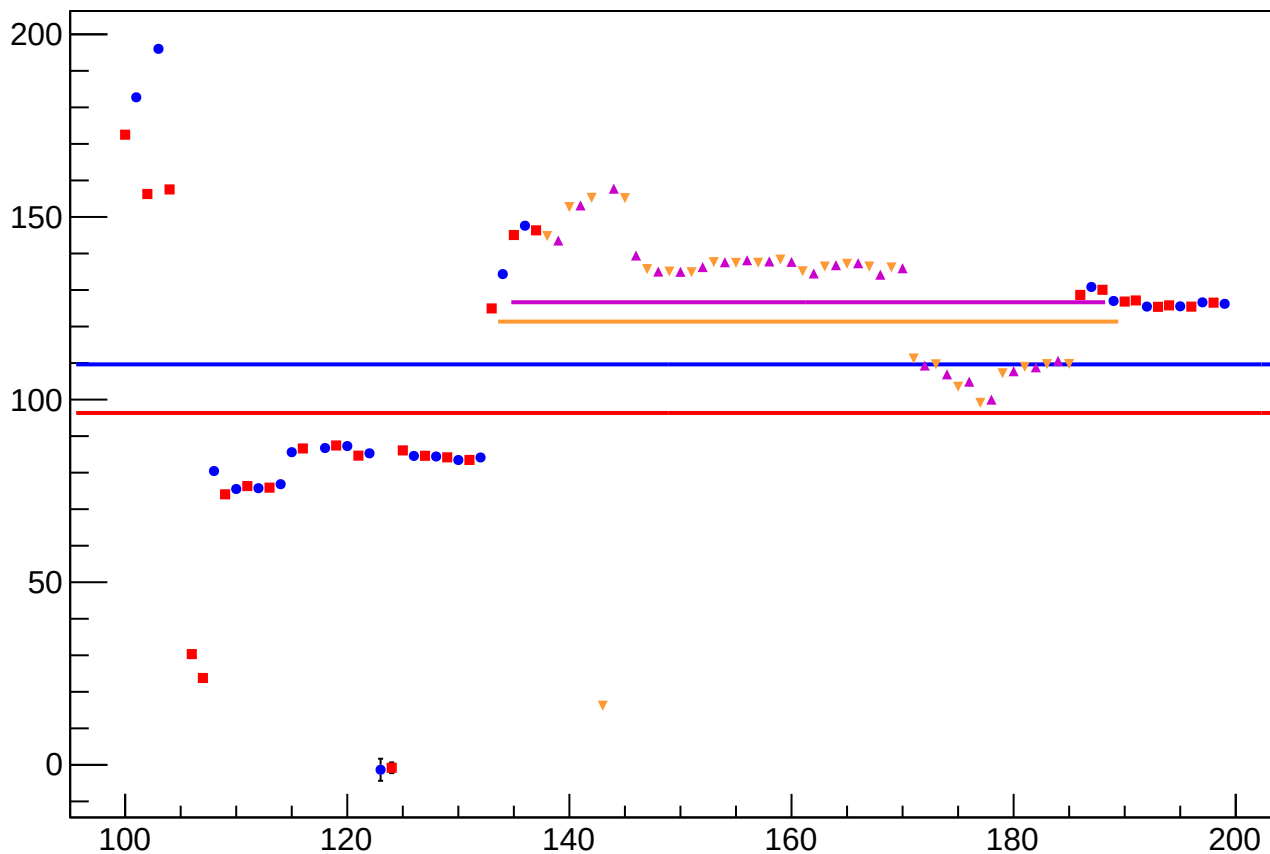
Right: -70.076 ± 0.714 $\chi^2/\text{NDF}: 1748.5/49$

In: -75.878 ± 0.671 $\chi^2/\text{NDF}: 1139.5/45$

Out: -70.548 ± 0.645 $\chi^2/\text{NDF}: 1657.9/51$

All: -73.107 ± 0.465 $\chi^2/\text{NDF}: 2830.2/97$

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: 96.336 $\pm$ 0.055 χ^2 /NDF: 538646.3/26

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

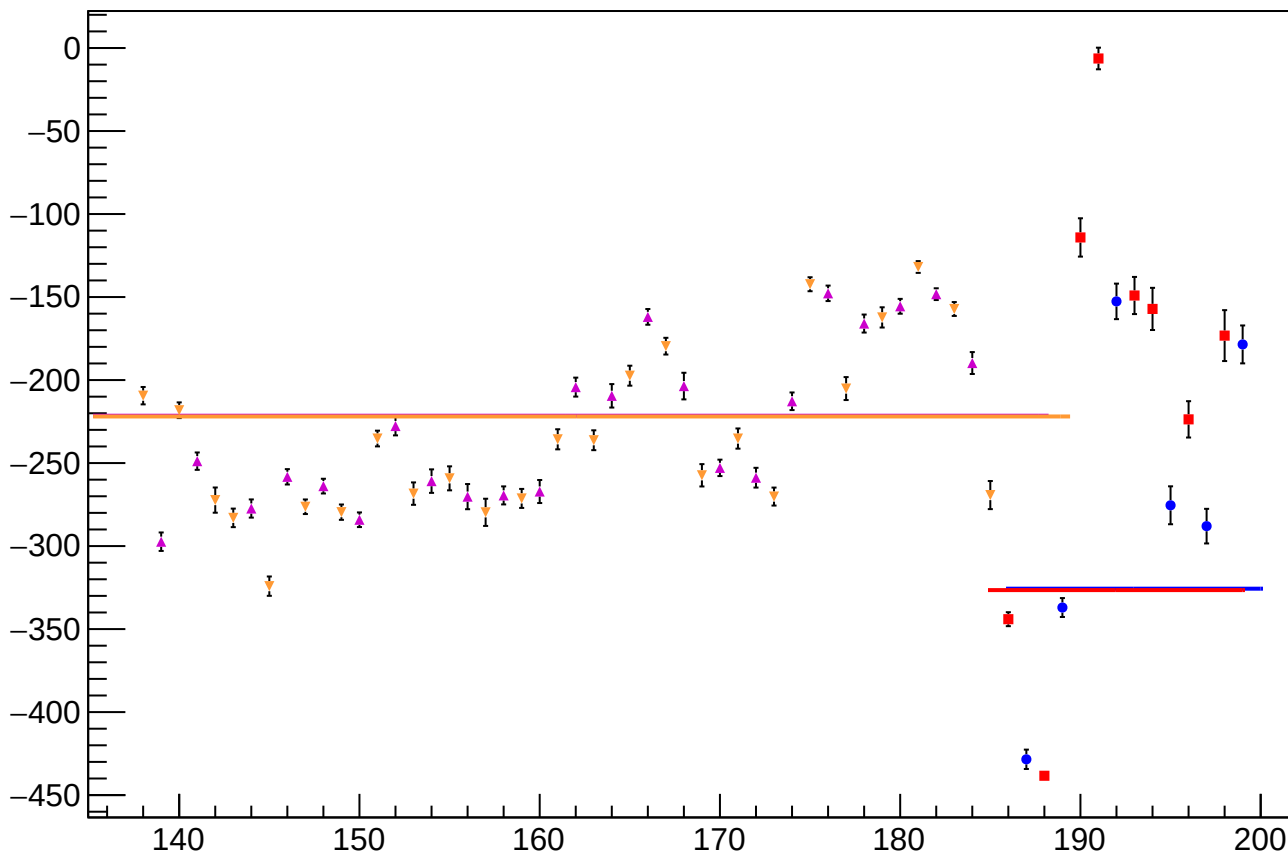
Right: 102.279 $\pm$ 0.041 χ^2 /NDF: 865484.8/49

In: 121.308 $\pm$ 0.034 χ^2 /NDF:517182.8/45

Out: 112.518 $\pm$ 0.032 χ^2 /NDF:1156755.0/51

All: 116.701 $\pm$ 0.023 χ^2 /NDF: 1708940.0/97

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -325.665 ± 3.270 $\chi^2/\text{NDF}: 774.5/5$

Left Out: -221.934 ± 1.084 $\chi^2/\text{NDF}: 2578.4/24$

Right Out: -326.517 ± 2.119 $\chi^2/\text{NDF}: 4743.6/7$

Left In: -221.483 ± 1.102 $\chi^2/\text{NDF}: 2149.8/22$

Left: -221.712 ± 0.773 $\chi^2/\text{NDF}: 4728.2/47$

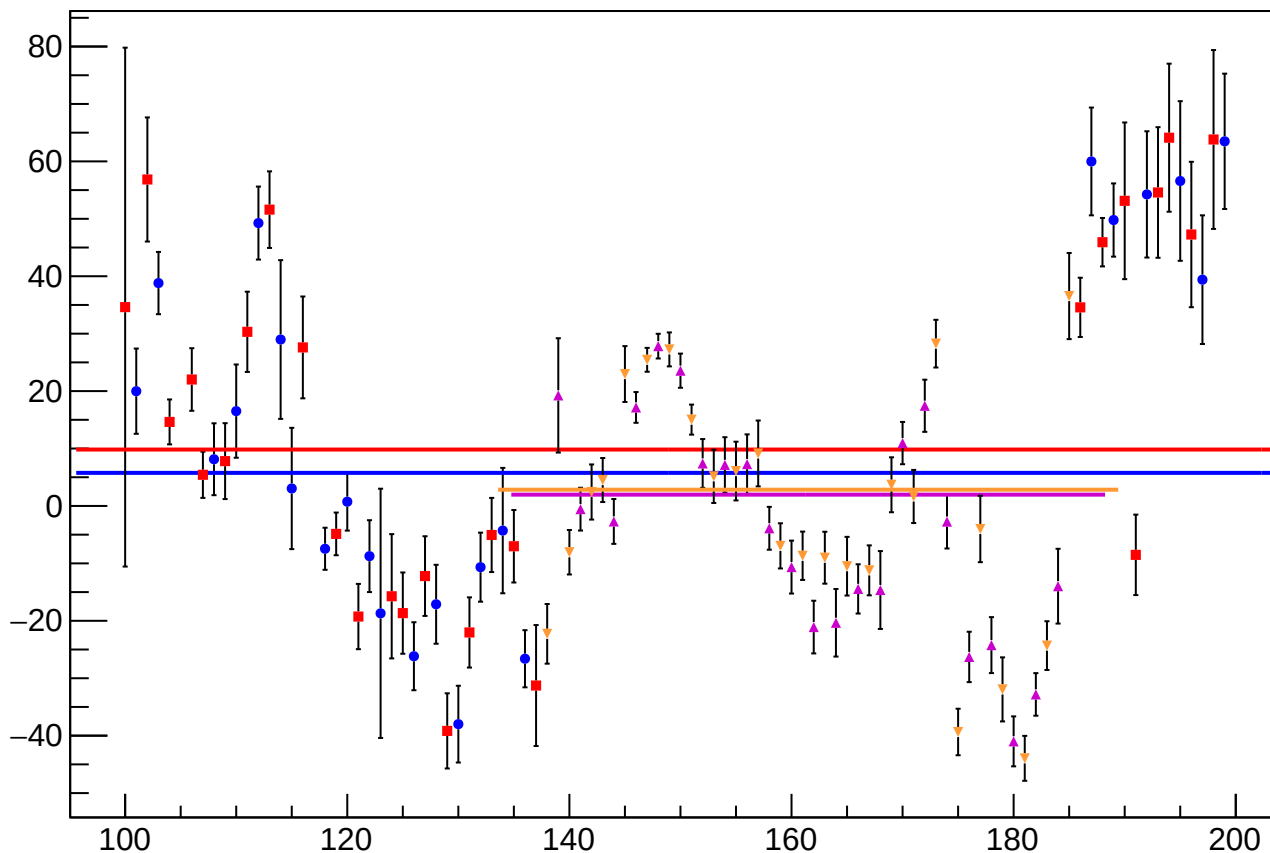
Right: -326.265 ± 1.778 $\chi^2/\text{NDF}: 5518.1/13$

In: -232.112 ± 1.044 $\chi^2/\text{NDF}: 3835.7/28$

Out: -243.648 ± 0.965 $\chi^2/\text{NDF}: 9253.0/32$

All: -238.334 ± 0.709 $\chi^2/\text{NDF}: 13154.6/61$

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: 9.823 ± 1.237 $\chi^2/\text{NDF}: 430.7/26$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

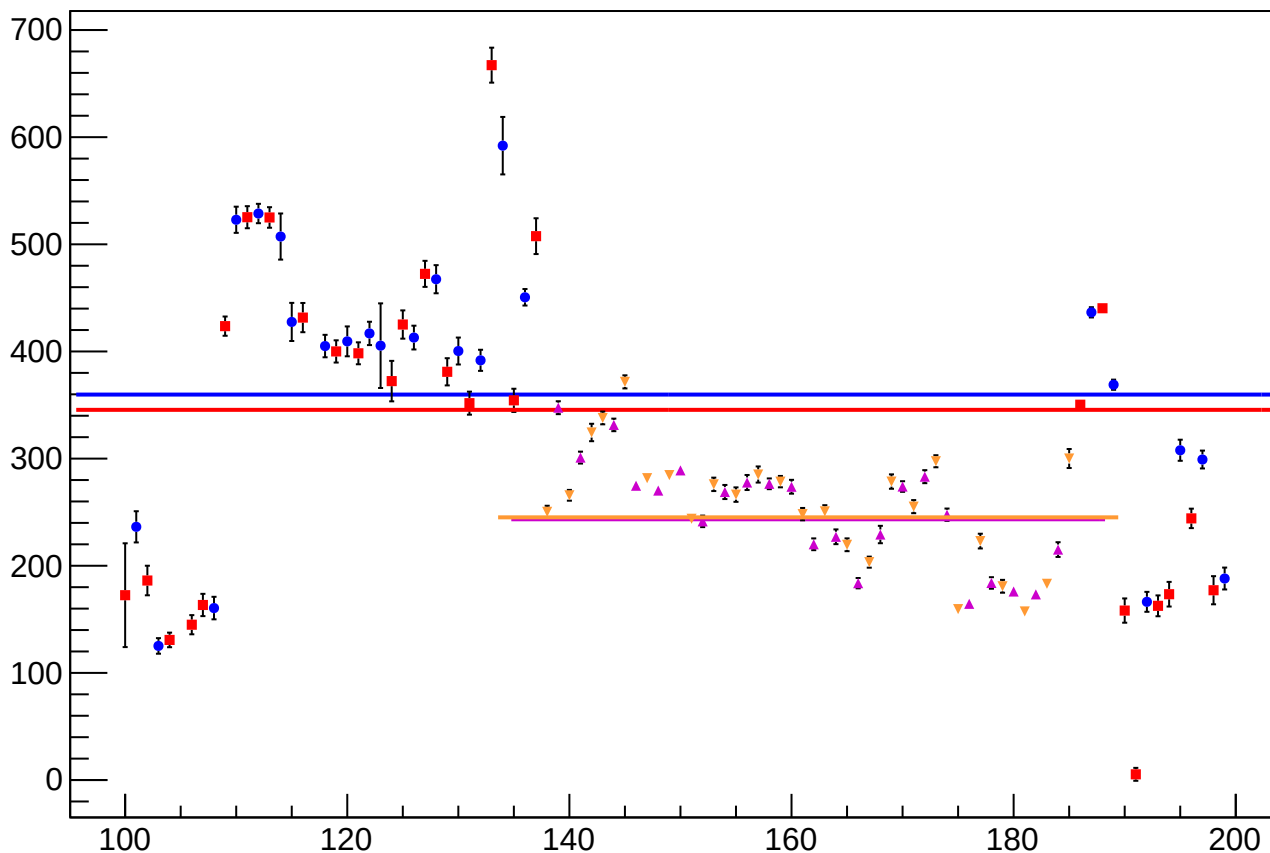
Right: 8.088 ± 0.937 $\chi^2/\text{NDF}: 829.0/49$

In: 2.929 ± 0.721 $\chi^2/\text{NDF}: 988.0/45$

Out: 4.918 ± 0.676 $\chi^2/\text{NDF}: 1140.0/51$

All: 3.988 ± 0.493 $\chi^2/\text{NDF}: 2132.1/97$

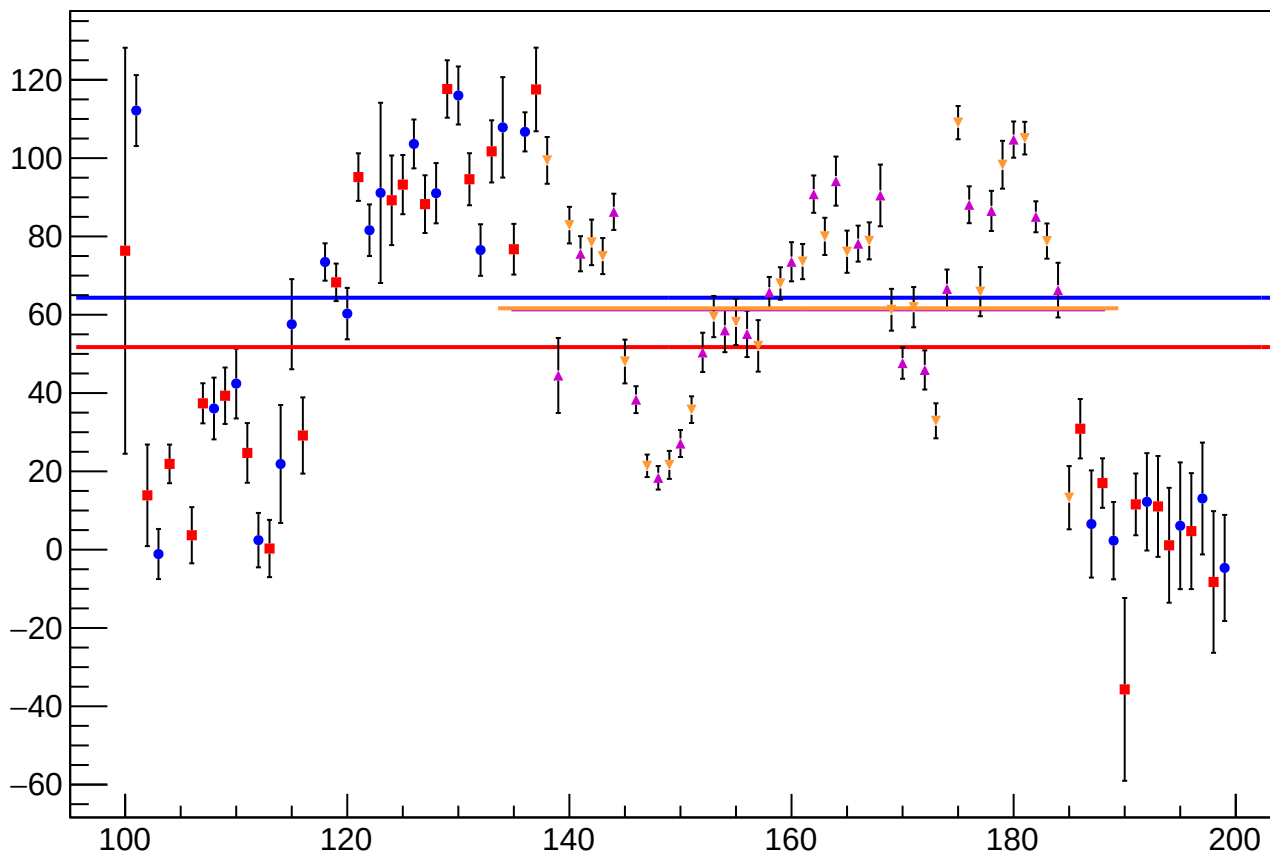
reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



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: 345.510 $\pm$ 1.443 χ^2 /NDF: 9241.4/26
 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: 350.552 $\pm$ 1.160 χ^2 /NDF: 12780.5/49
 In: 271.202 $\pm$ 0.954 χ^2 /NDF:8450.2/45
 Out: 281.281 $\pm$ 0.866 χ^2 /NDF:14932.6/51
 All: 276.729 $\pm$ 0.641 χ^2 /NDF: 23444.0/97

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: 51.740 $\pm$ 1.485 χ^2 /NDF: 632.7/26

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

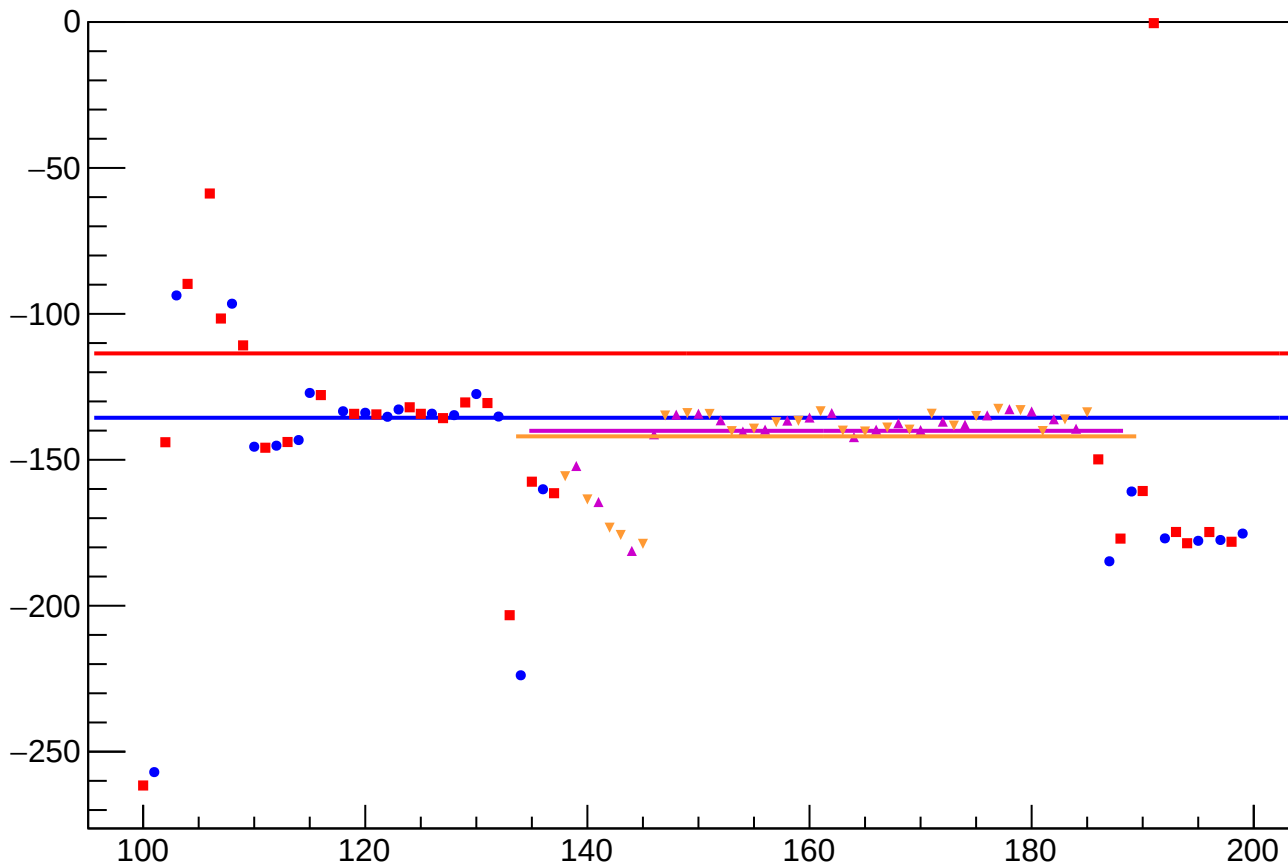
Right: 57.285 $\pm$ 1.111 χ^2 /NDF: 1229.4/49

In: 62.110 $\pm$ 0.834 χ^2 /NDF: 1267.1/45

Out: 58.830 $\pm$ 0.792 χ^2 /NDF: 1536.1/51

All: 60.386 $\pm$ 0.574 χ^2 /NDF: 2811.3/97

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: -113.547 ± 0.071 χ^2/NDF : 565380.9/26

Left In: -140.068 ± 0.045 χ^2/NDF : 48030.7/22

Left: -141.025 ± 0.032 χ^2/NDF : 129181.1/47

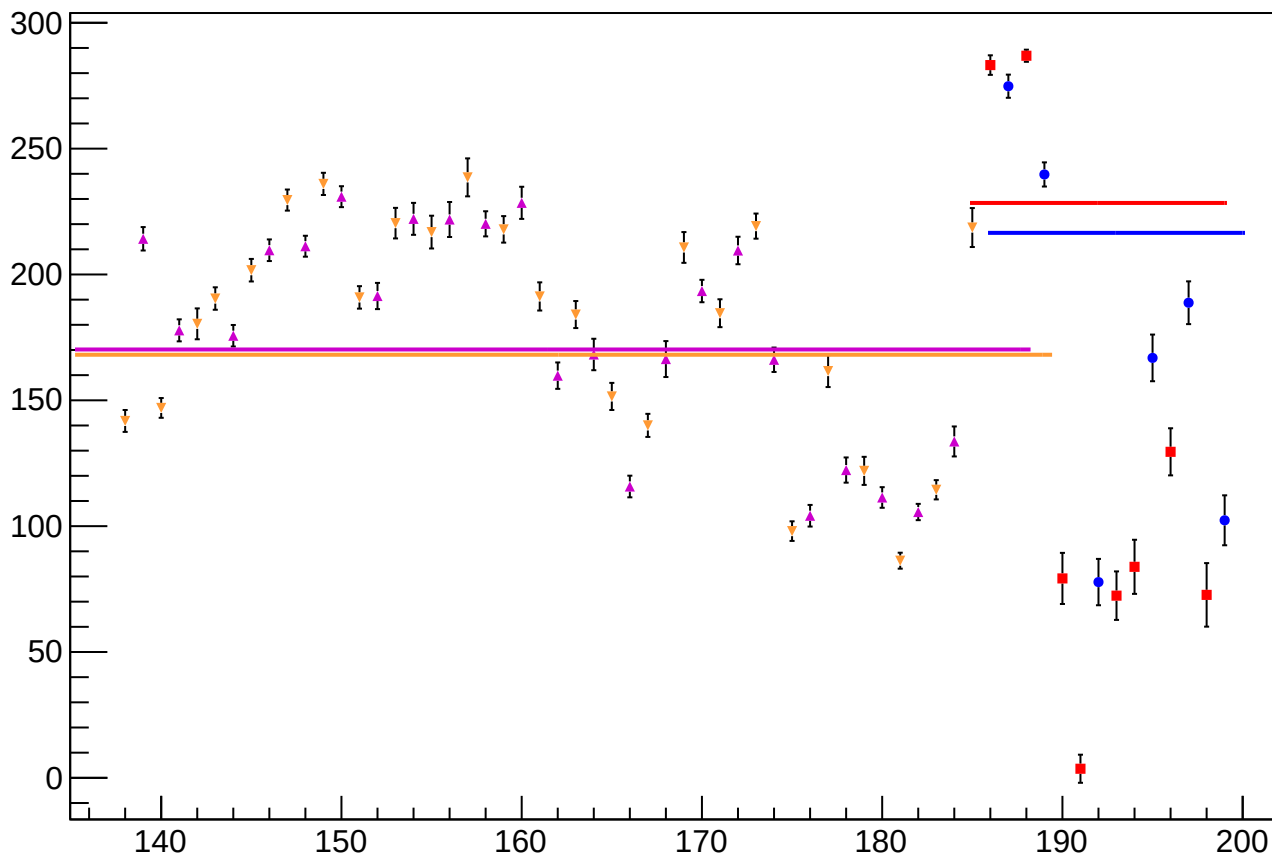
Right: -123.023 ± 0.053 χ^2/NDF : 825832.0/49

In: -139.021 ± 0.039 χ^2/NDF : 268909.4/45

Out: -133.840 ± 0.038 χ^2/NDF : 761254.4/51

All: -136.323 ± 0.027 χ^2/NDF : 1039177.5/97

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: 228.421 $\pm$ 1.776 χ^2 /NDF: 3331.0/7

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

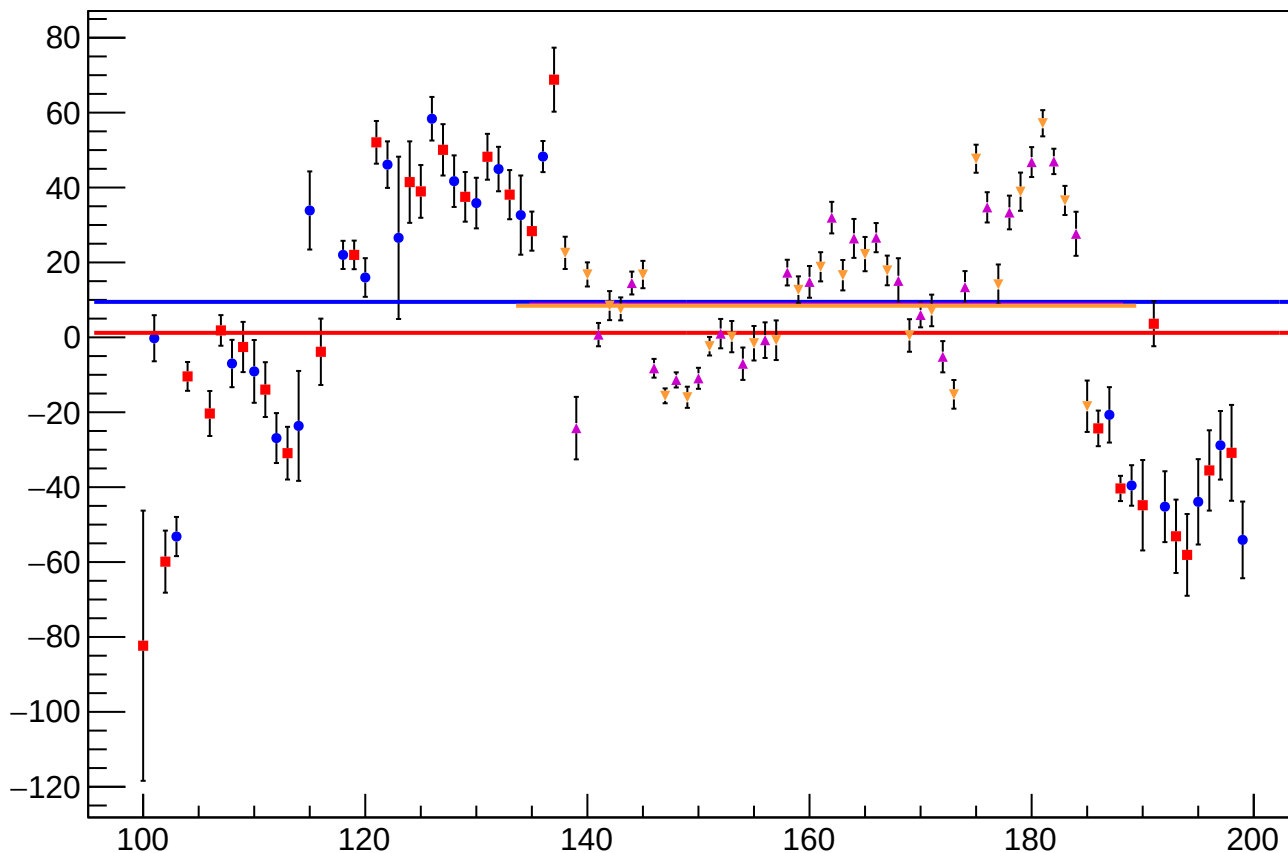
Right: 224.817 $\pm$ 1.482 χ^2 /NDF: 3927.2/13

In: 175.774 $\pm$ 0.934 χ^2 /NDF:2867.9/28

Out: 181.975 $\pm$ 0.851 χ^2 /NDF:6688.4/32

All: 179.159 $\pm$ 0.629 χ^2 /NDF: 9580.4/61

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: 1.206 ± 1.181 χ^2/NDF : 794.0/26

Left In: 8.769 ± 0.758 χ^2/NDF : 626.8/22

Left: 8.596 ± 0.525 χ^2/NDF : 1379.0/47

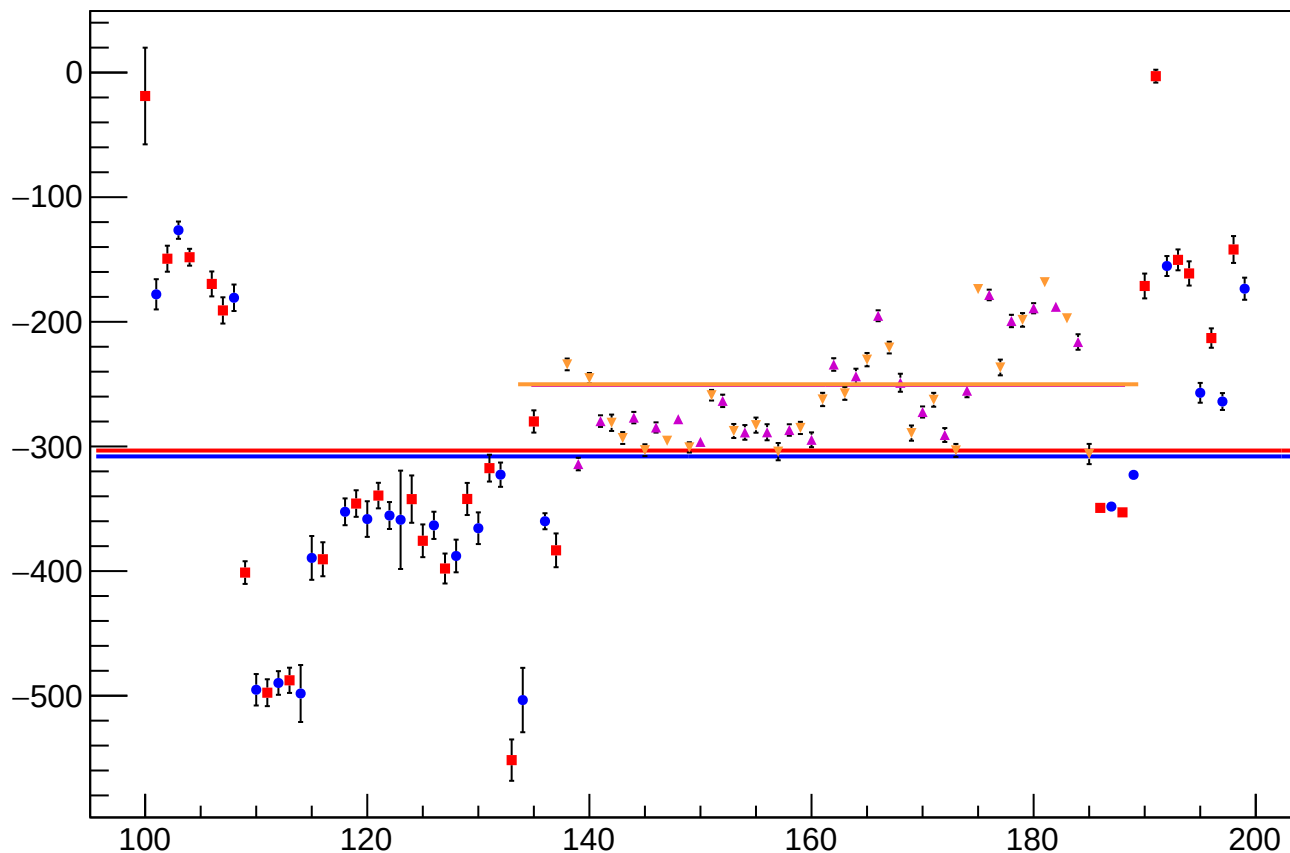
Right: 4.739 ± 0.894 χ^2/NDF : 1506.4/49

In: 8.934 ± 0.663 χ^2/NDF : 1318.5/45

Out: 6.445 ± 0.620 χ^2/NDF : 1573.2/51

All: 7.605 ± 0.453 χ^2/NDF : 2899.3/97

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: -303.280 ± 1.265 χ^2/NDF : 7637.4/26

Left In: -250.628 ± 0.990 χ^2/NDF : 1937.1/22

Left: -250.369 ± 0.694 χ^2/NDF : 4184.2/47

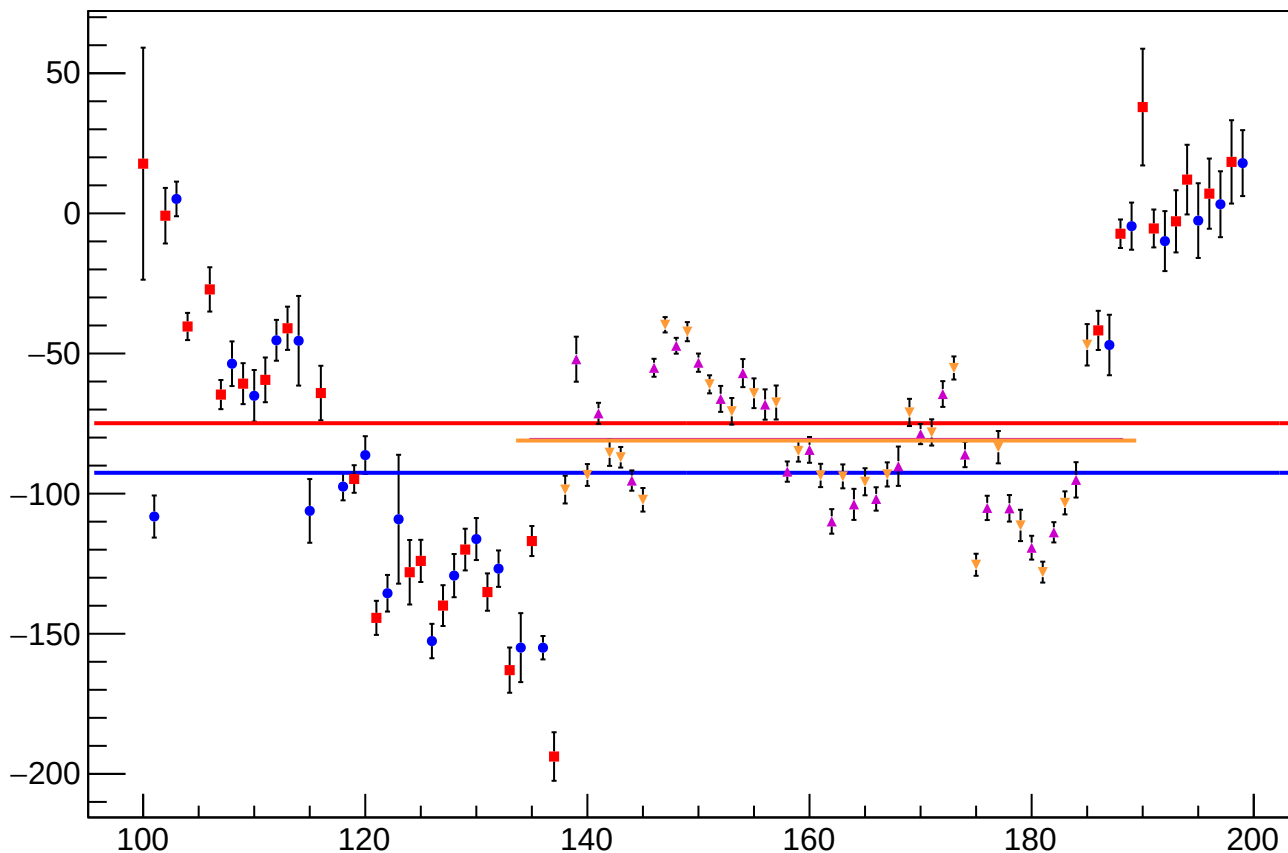
Right: -304.934 ± 1.019 χ^2/NDF : 10325.9/49

In: -264.902 ± 0.858 χ^2/NDF : 5455.5/45

Out: -269.870 ± 0.771 χ^2/NDF : 10995.1/51

All: -267.653 ± 0.574 χ^2/NDF : 16469.1/97

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -92.563 $\pm$ 1.599 χ^2 /NDF: 1177.6/22

Left Out: -81.057 $\pm$ 0.843 χ^2 /NDF: 913.0/24

Right Out: -74.872 $\pm$ 1.424 χ^2 /NDF: 1465.8/26

Left In: -80.834 $\pm$ 0.872 χ^2 /NDF: 693.1/22

Left: -80.949 $\pm$ 0.606 χ^2 /NDF: 1606.2/47

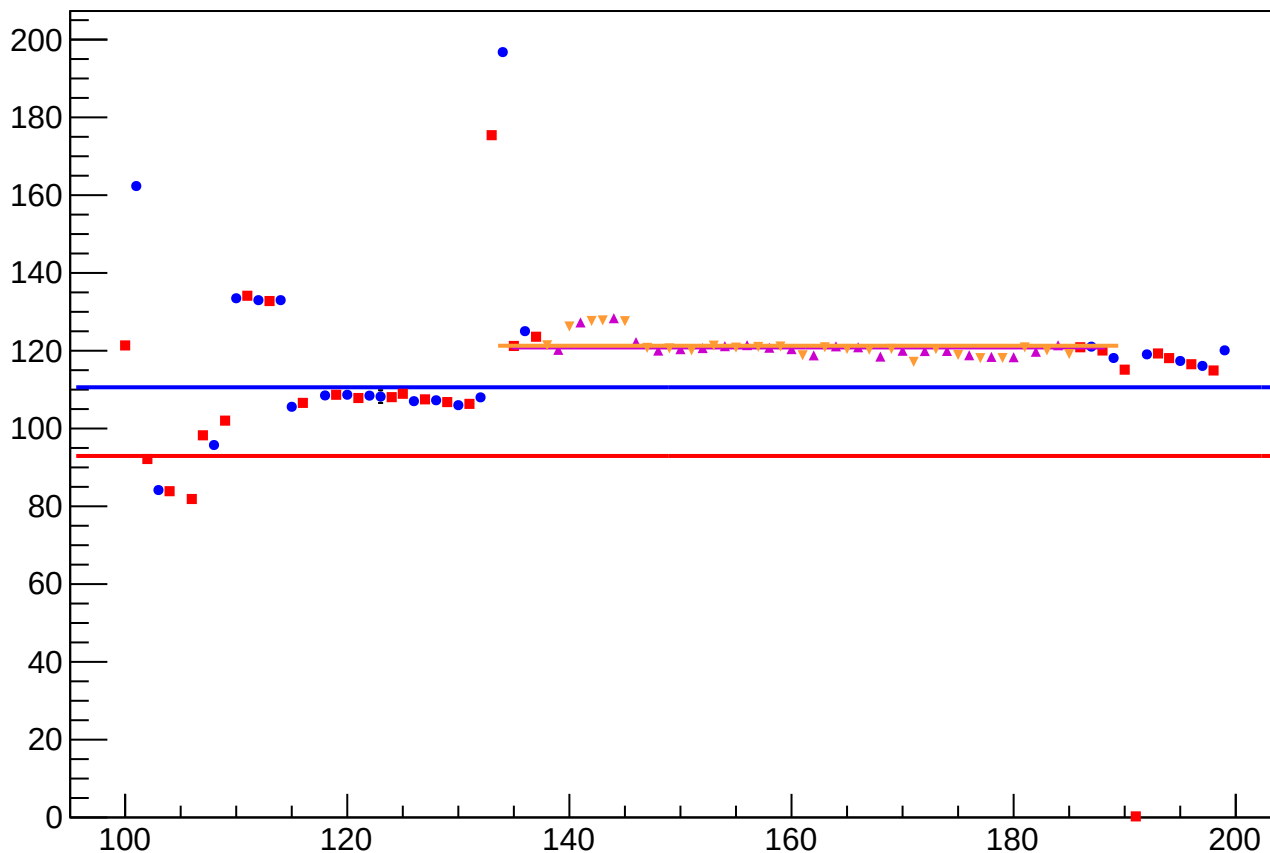
Right: -82.696 $\pm$ 1.063 χ^2 /NDF: 2711.7/49

In: -83.522 $\pm$ 0.765 χ^2 /NDF: 1912.2/45

Out: -79.451 $\pm$ 0.725 χ^2 /NDF: 2392.8/51

All: -81.377 $\pm$ 0.526 χ^2 /NDF: 4319.9/97

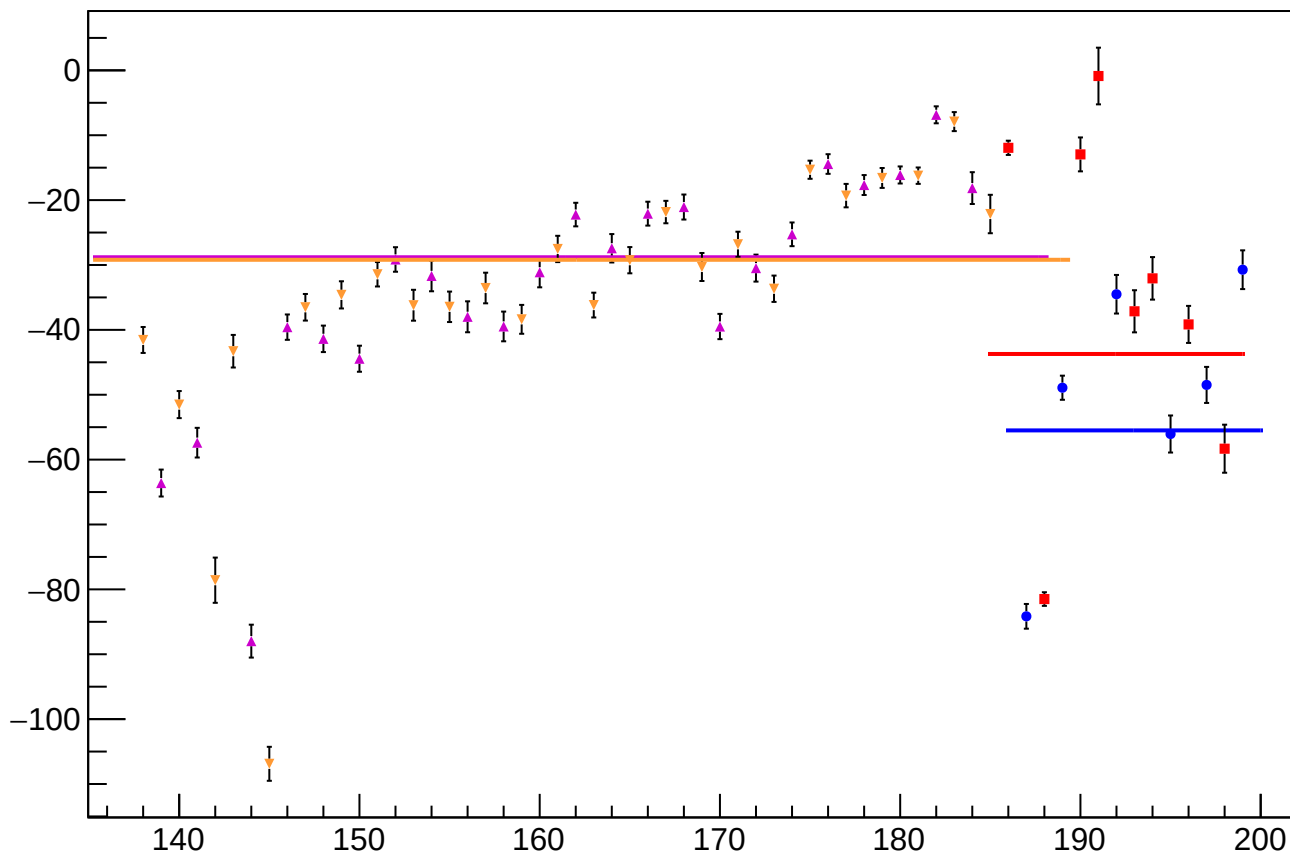
reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



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: 92.944 $\pm$ 0.065 χ^2 /NDF: 348322.5/26
 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: 100.515 $\pm$ 0.049 χ^2 /NDF: 455943.7/49
 In: 118.538 $\pm$ 0.036 χ^2 /NDF: 93982.6/45
 Out: 113.539 $\pm$ 0.034 χ^2 /NDF: 489719.3/51
 All: 115.922 $\pm$ 0.025 χ^2 /NDF: 593892.7/97

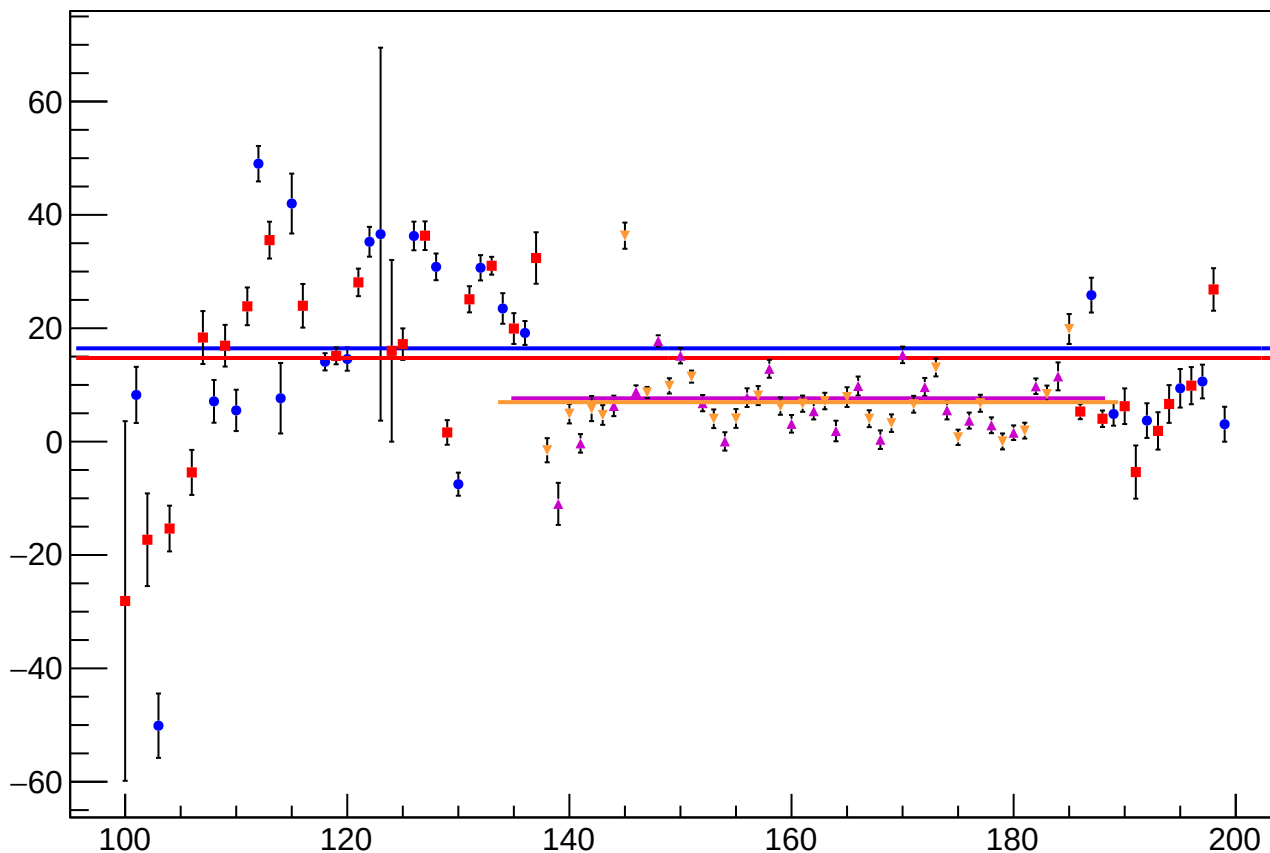
reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



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: -43.717 ± 0.657 $\chi^2/\text{NDF}: 2403.2/7$
 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: -47.368 ± 0.545 $\chi^2/\text{NDF}: 2866.6/13$
 In: -32.546 ± 0.367 $\chi^2/\text{NDF}: 2765.5/28$
 Out: -32.965 ± 0.334 $\chi^2/\text{NDF}: 4646.8/32$
 All: -32.775 ± 0.247 $\chi^2/\text{NDF}: 7413.0/61$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.455 $\pm$ 0.569 χ^2 /NDF: 715.7/22

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 14.750 $\pm$ 0.504 χ^2 /NDF: 603.3/26

Left In: 7.638 $\pm$ 0.313 χ^2 /NDF:337.7/22

Left: 7.287 $\pm$ 0.218 χ^2 /NDF: 661.5/47

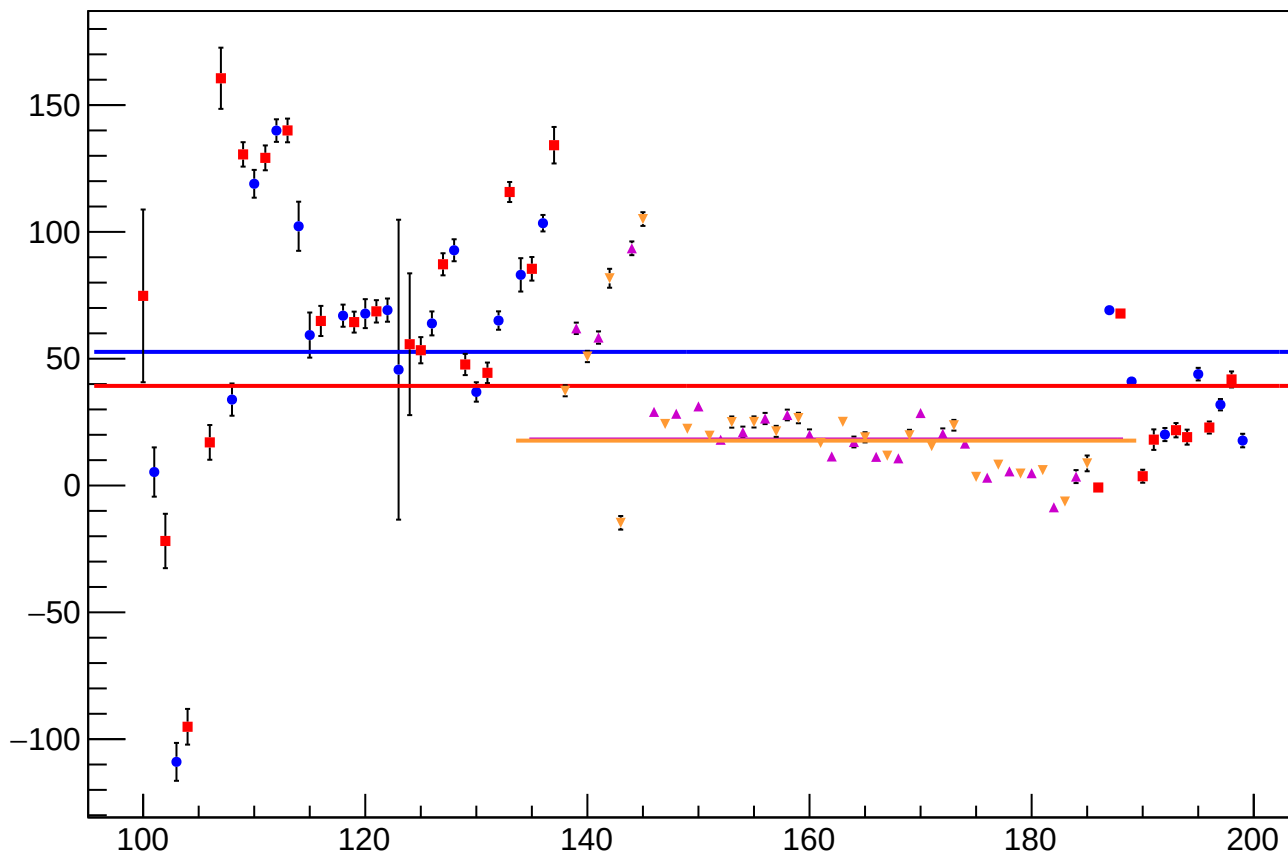
Right: 15.500 $\pm$ 0.377 χ^2 /NDF: 1324.1/49

In: 9.693 $\pm$ 0.275 χ^2 /NDF:1237.7/45

Out: 9.026 $\pm$ 0.260 χ^2 /NDF:1100.0/51

All: 9.341 $\pm$ 0.189 χ^2 /NDF: 2340.8/97

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: 39.278 $\pm$ 0.494 χ^2 /NDF: 6127.9/26

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

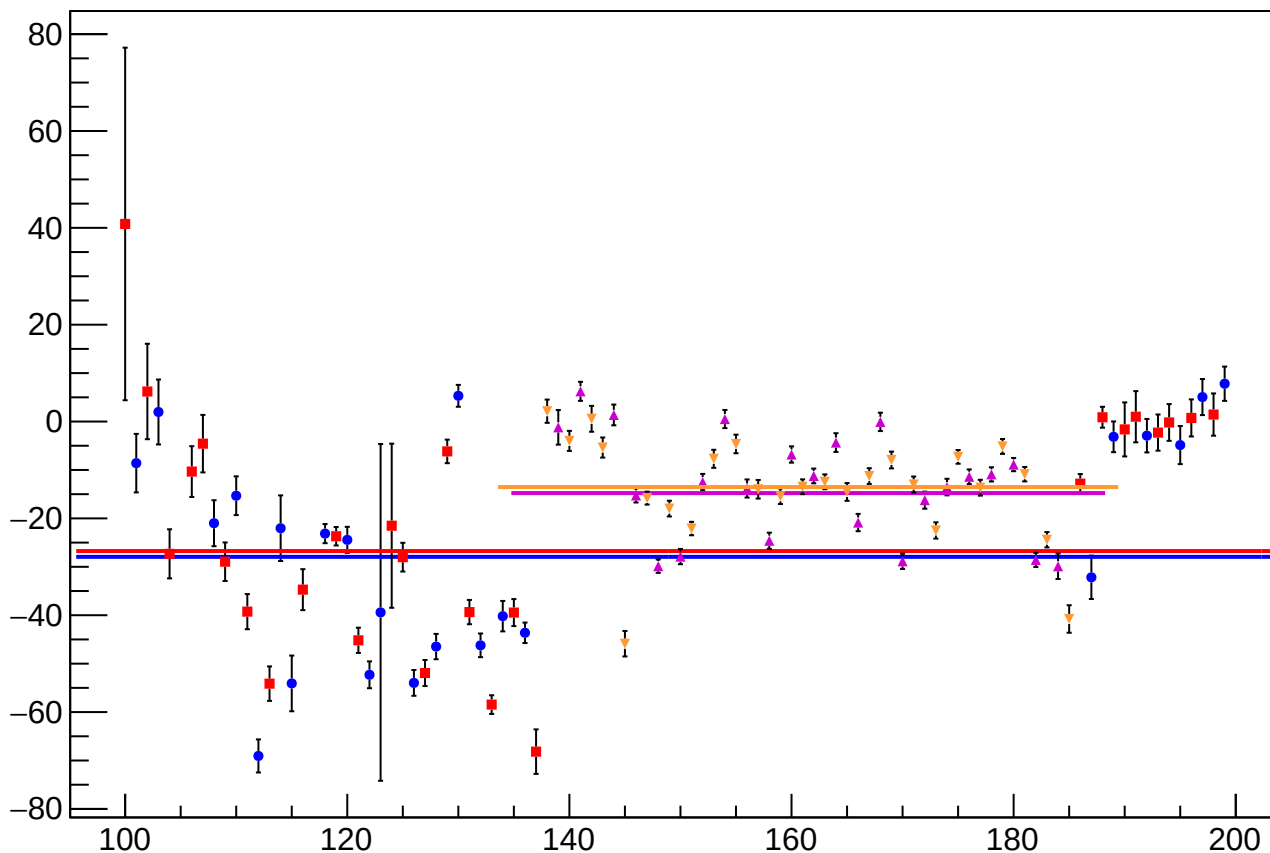
Right: 43.846 $\pm$ 0.401 χ^2 /NDF: 8446.8/49

In: 26.640 $\pm$ 0.341 χ^2 /NDF:6310.2/45

Out: 25.910 $\pm$ 0.305 χ^2 /NDF:9740.6/51

All: 26.235 $\pm$ 0.227 χ^2 /NDF: 16053.3/97

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: -26.747 ± 0.615 $\chi^2/\text{NDF}: 1170.8/26$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

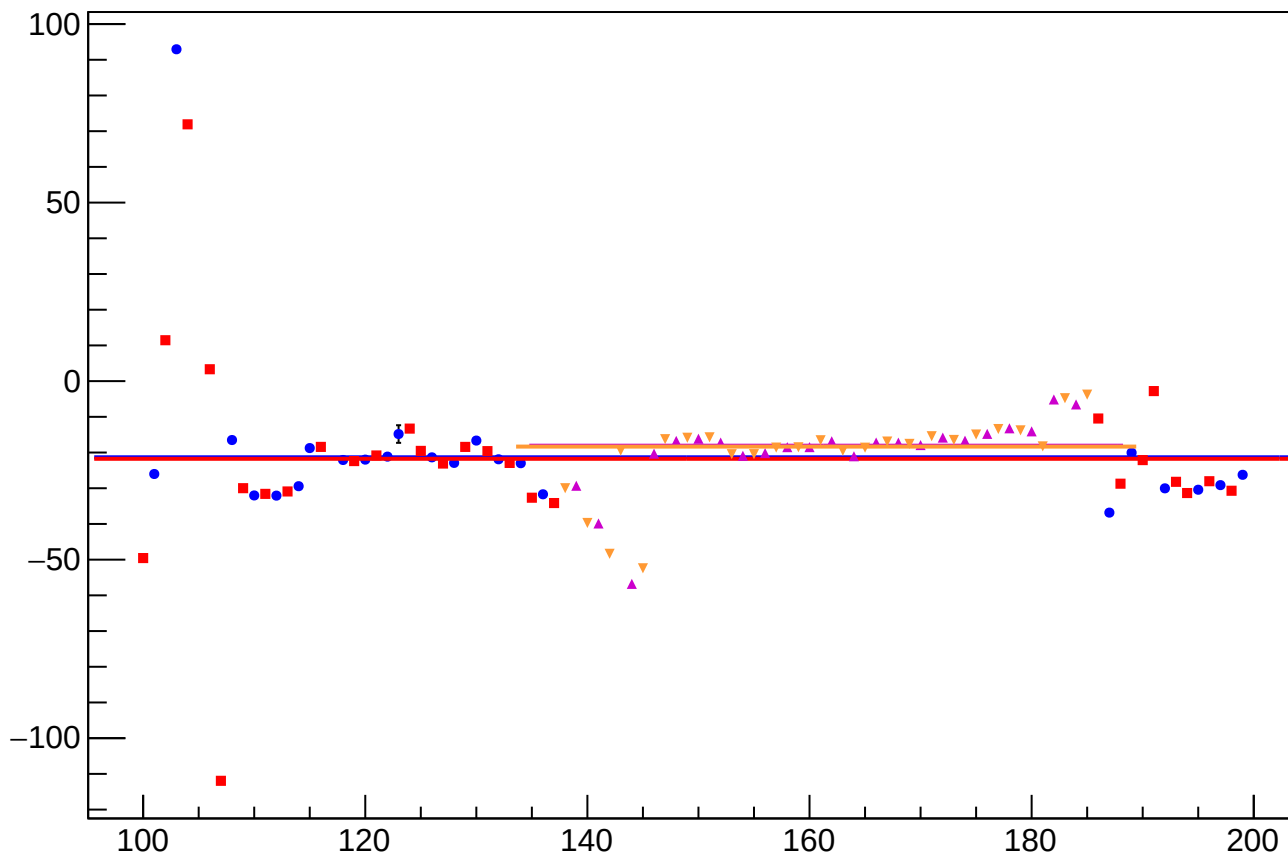
Right: -27.295 ± 0.452 $\chi^2/\text{NDF}: 2284.3/49$

In: -17.669 ± 0.313 $\chi^2/\text{NDF}: 2253.3/45$

Out: -16.678 ± 0.300 $\chi^2/\text{NDF}: 2095.0/51$

All: -17.153 ± 0.217 $\chi^2/\text{NDF}: 4353.5/97$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -21.333 $\pm$ 0.034 χ^2 /NDF: 508738.1/22

Left Out: -18.334 $\pm$ 0.016 χ^2 /NDF: 284152.1/24

Right Out: -21.751 $\pm$ 0.032 χ^2 /NDF: 483711.4/26

Left In: -18.083 $\pm$ 0.016 χ^2 /NDF: 241949.5/22

Left: -18.211 $\pm$ 0.011 χ^2 /NDF: 526224.9/47

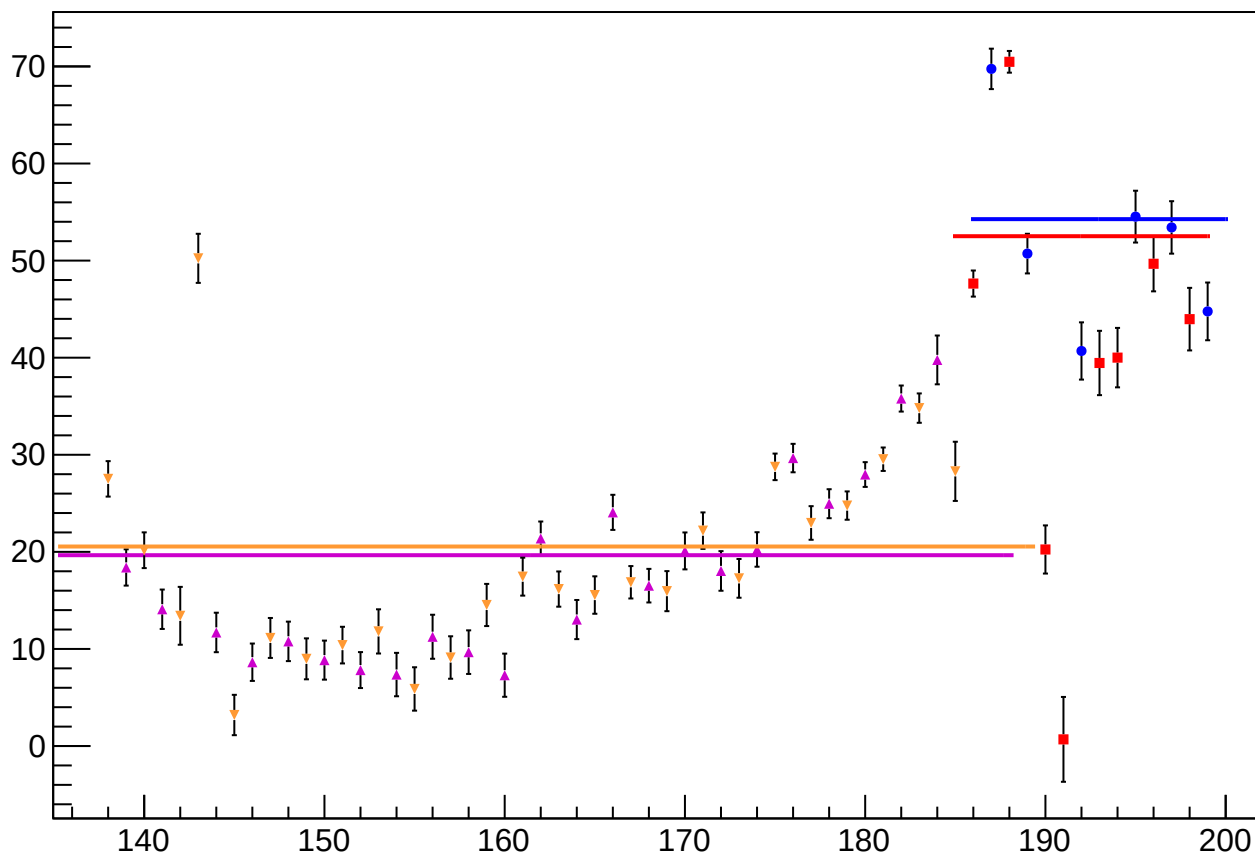
Right: -21.555 $\pm$ 0.023 χ^2 /NDF: 992530.6/49

In: -18.685 $\pm$ 0.015 χ^2 /NDF: 758241.5/45

Out: -19.013 $\pm$ 0.014 χ^2 /NDF: 777104.1/51

All: -18.853 $\pm$ 0.010 χ^2 /NDF: 1535606.7/97

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: 52.513 $\pm$ 0.709 χ^2 /NDF: 621.4/7

Left In: 19.656 $\pm$ 0.380 χ^2 /NDF: 571.8/22

Left: 20.112 $\pm$ 0.266 χ^2 /NDF: 1201.0/47

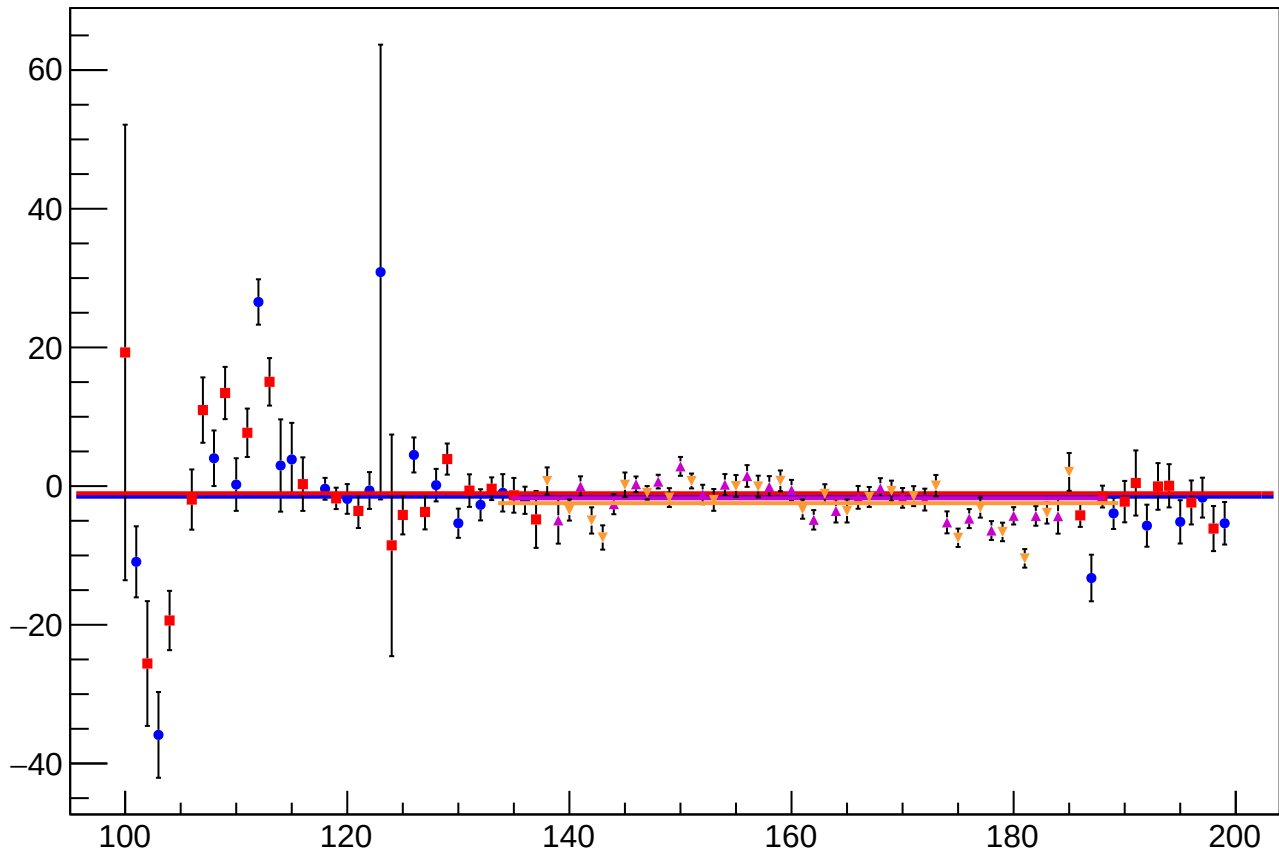
Right: 53.092 $\pm$ 0.581 χ^2 /NDF: 713.2/13

In: 23.940 $\pm$ 0.356 χ^2 /NDF: 1686.3/28

Out: 27.474 $\pm$ 0.330 χ^2 /NDF: 2837.8/32

All: 25.840 $\pm$ 0.242 χ^2 /NDF: 4577.1/61

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.525 ± 0.578 χ^2/NDF : 141.1/22

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.029 ± 0.525 χ^2/NDF : 92.5/26

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

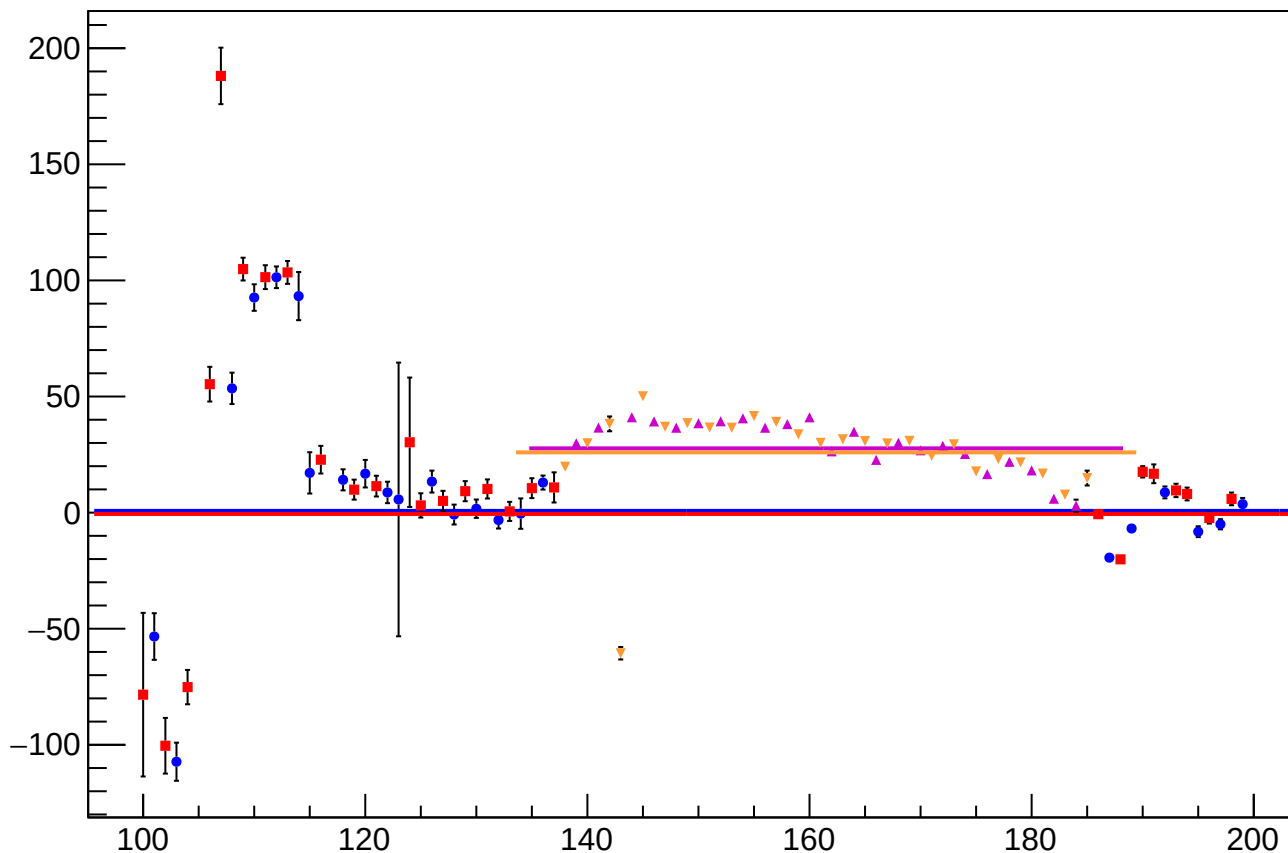
Right: -1.254 ± 0.389 χ^2/NDF : 234.0/49

In: -1.708 ± 0.268 χ^2/NDF : 208.7/45

Out: -2.118 ± 0.255 χ^2/NDF : 204.1/51

All: -1.923 ± 0.185 χ^2/NDF : 414.0/97

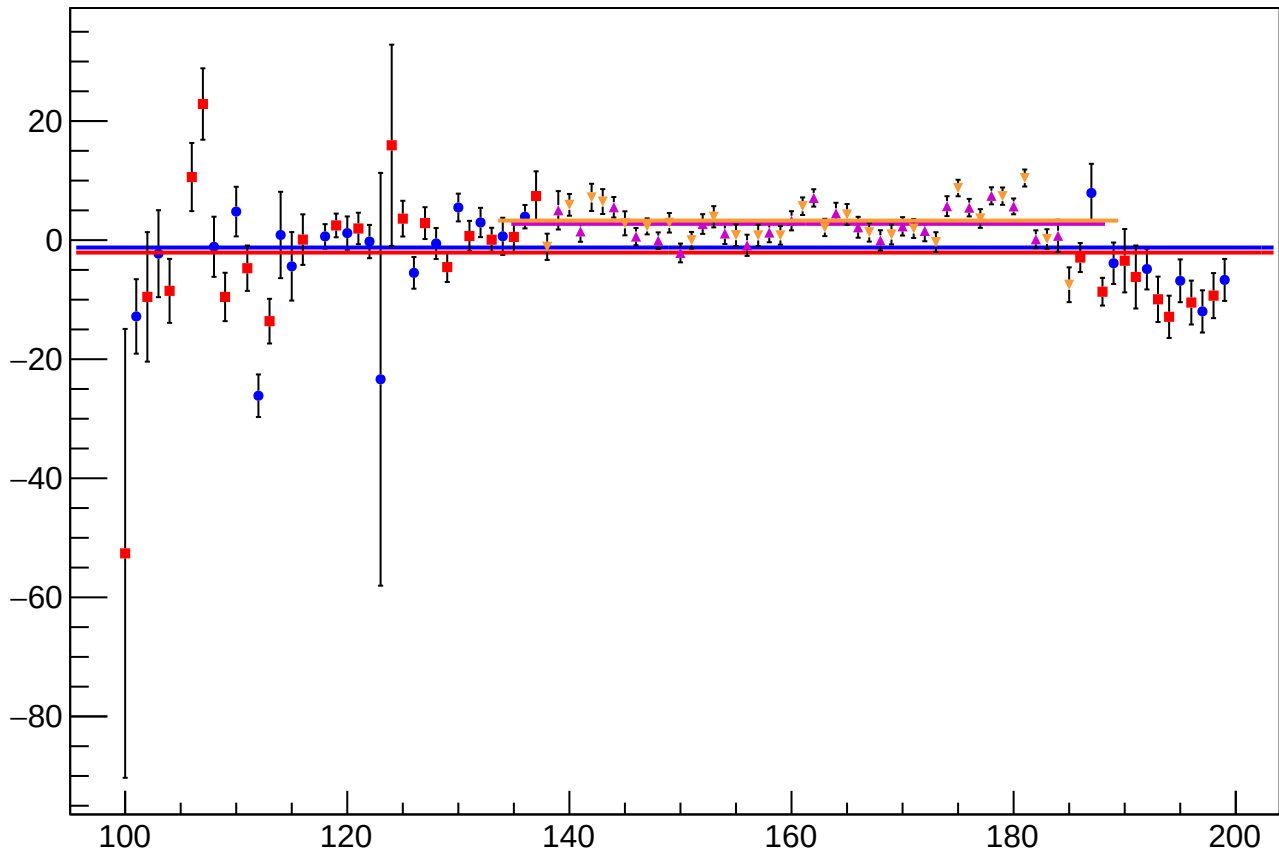
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



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: -0.578 ± 0.532 $\chi^2/\text{NDF}: 2399.2/26$
 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: -0.101 ± 0.425 $\chi^2/\text{NDF}: 3705.9/49$
 In: 21.694 ± 0.334 $\chi^2/\text{NDF}: 3234.8/45$
 Out: 17.229 ± 0.305 $\chi^2/\text{NDF}: 5776.5/51$
 All: 19.263 ± 0.225 $\chi^2/\text{NDF}: 9108.9/97$

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: -2.087 ± 0.633 χ^2/NDF : 95.8/26

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

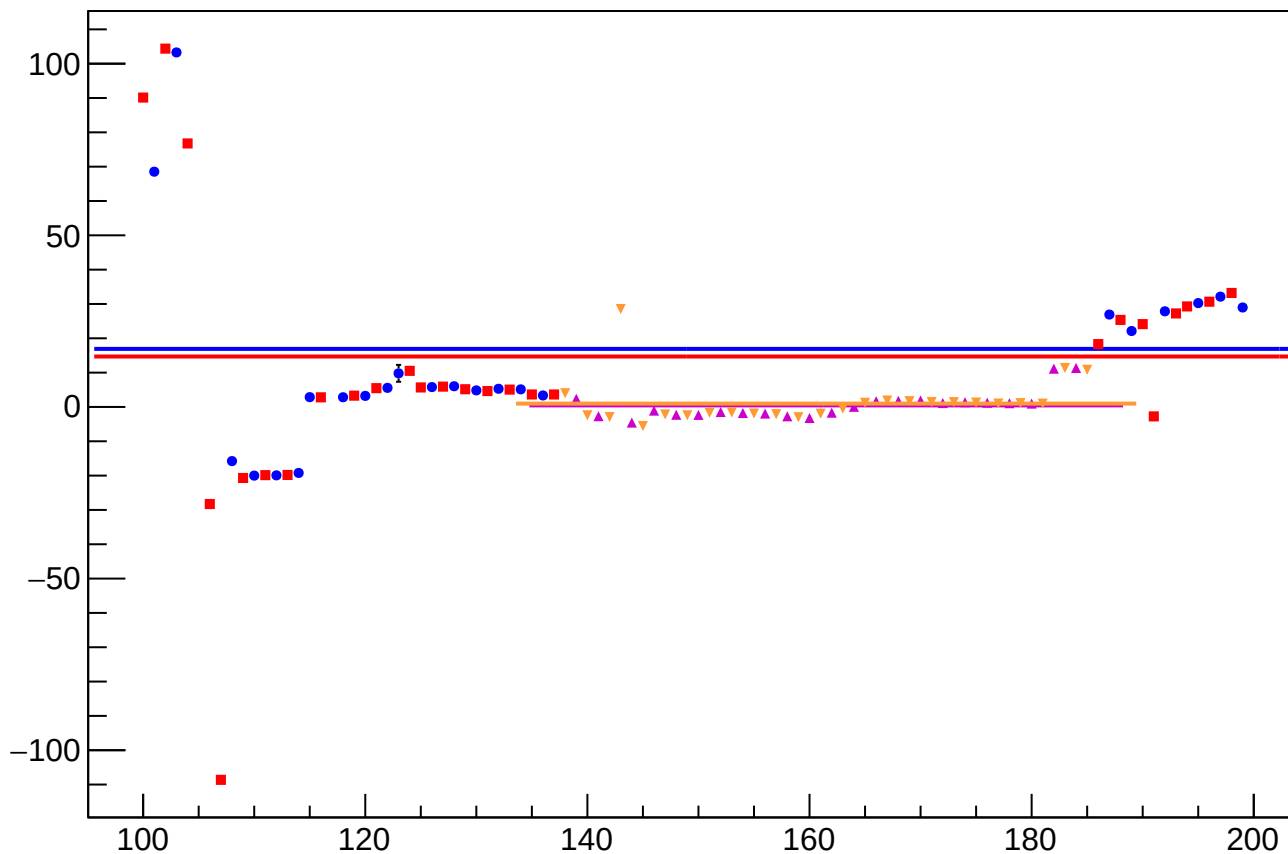
Right: -1.690 ± 0.461 χ^2/NDF : 193.5/49

In: 1.924 ± 0.304 χ^2/NDF : 189.1/45

Out: 2.128 ± 0.294 χ^2/NDF : 254.6/51

All: 2.030 ± 0.211 χ^2/NDF : 443.9/97

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: 14.693 $\pm$ 0.032 χ^2 /NDF: 674650.3/26

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

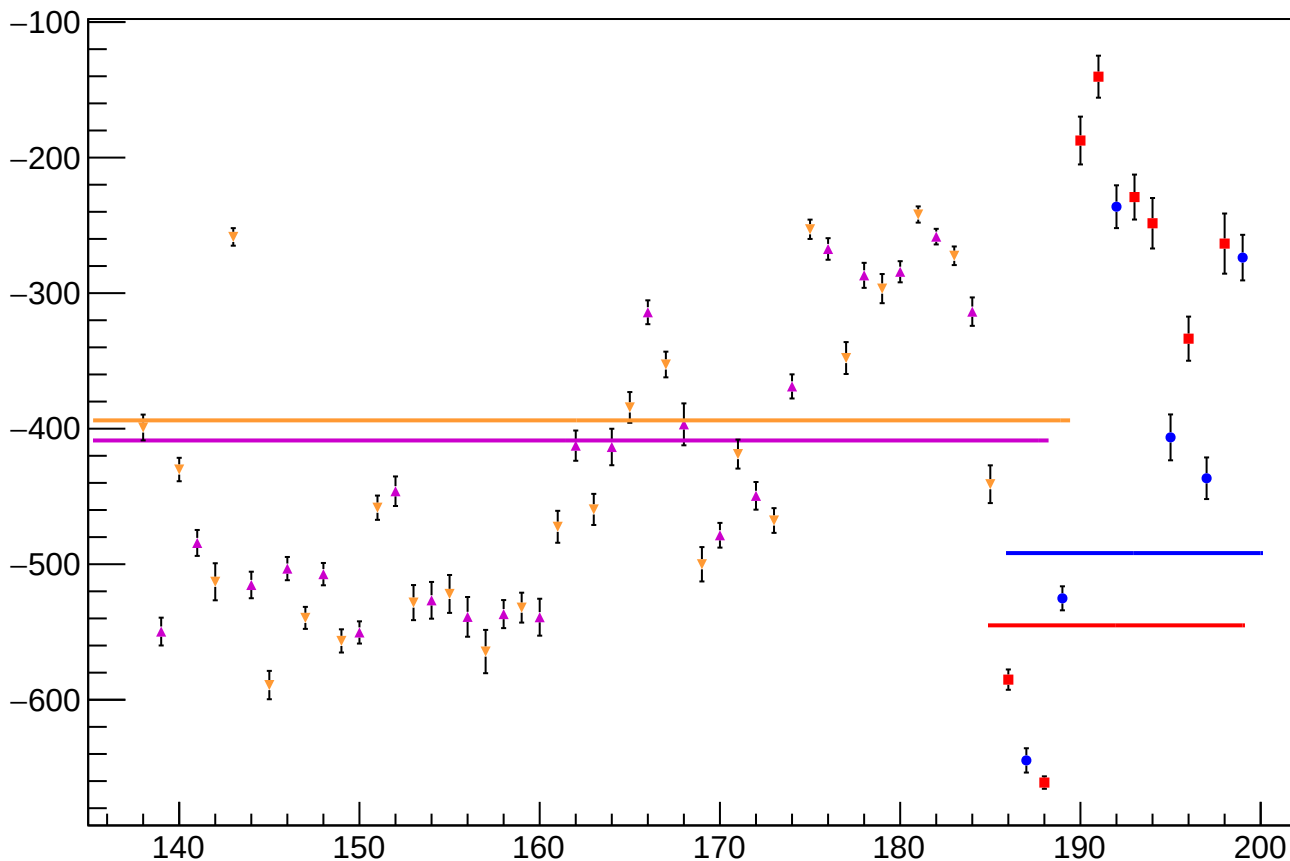
Right: 15.751 $\pm$ 0.023 χ^2 /NDF: 1136094.1/49

In: 3.352 $\pm$ 0.014 χ^2 /NDF: 710432.6/45

Out: 3.532 $\pm$ 0.014 χ^2 /NDF: 943785.0/51

All: 3.444 $\pm$ 0.010 χ^2 /NDF: 1654301.9/97

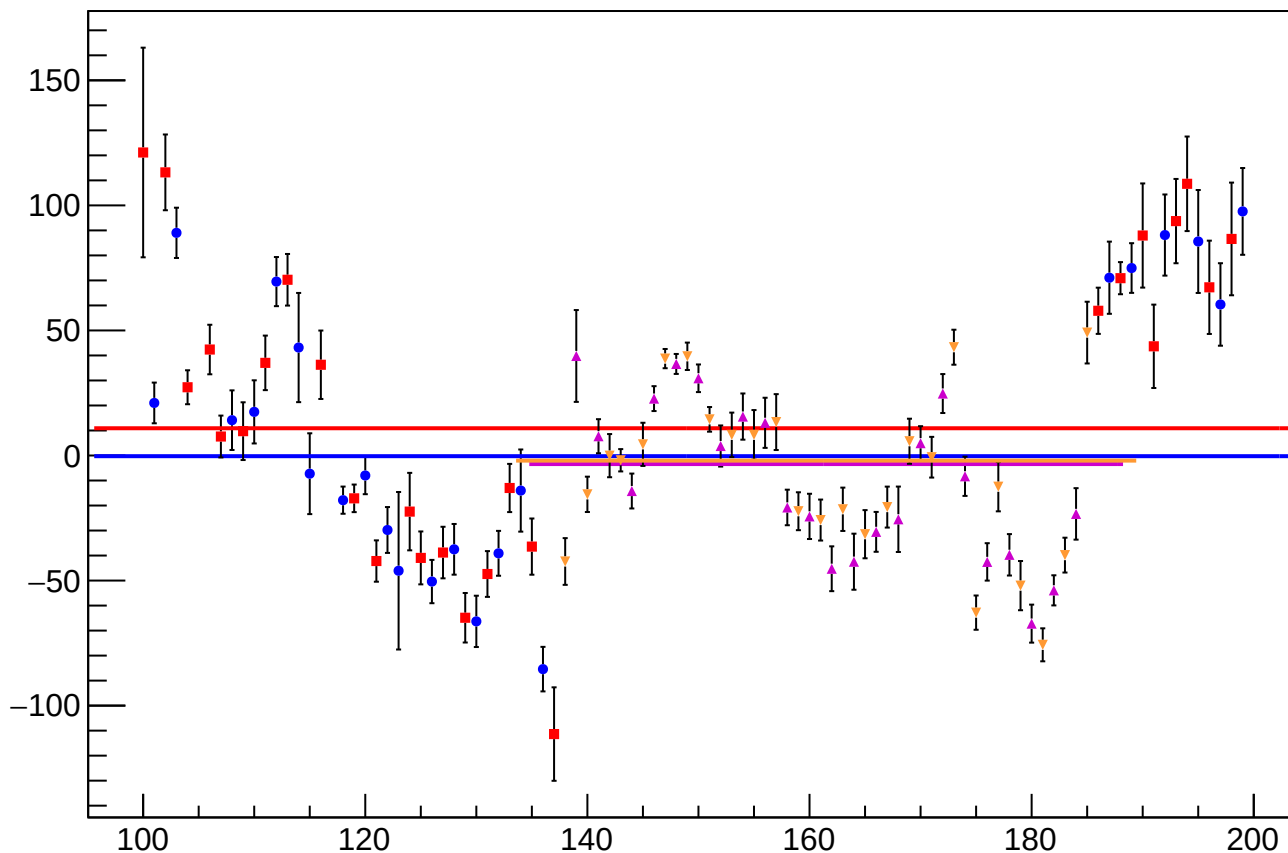
reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



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: -545.106 ± 3.433 χ^2/NDF : 2705.8/7
 Left In: -408.696 ± 1.979 χ^2/NDF : 3062.9/22

Left: -400.970 ± 1.369 χ^2/NDF : 6864.9/47
 Right: -527.893 ± 2.825 χ^2/NDF : 3557.4/13
 In: -420.061 ± 1.839 χ^2/NDF : 4077.7/28
 Out: -429.255 ± 1.660 χ^2/NDF : 7965.6/32
 All: -425.125 ± 1.232 χ^2/NDF : 12057.1/61

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.269 ± 2.189 $\chi^2/\text{NDF}: 541.5/22$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 10.896 ± 2.006 $\chi^2/\text{NDF}: 597.8/26$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

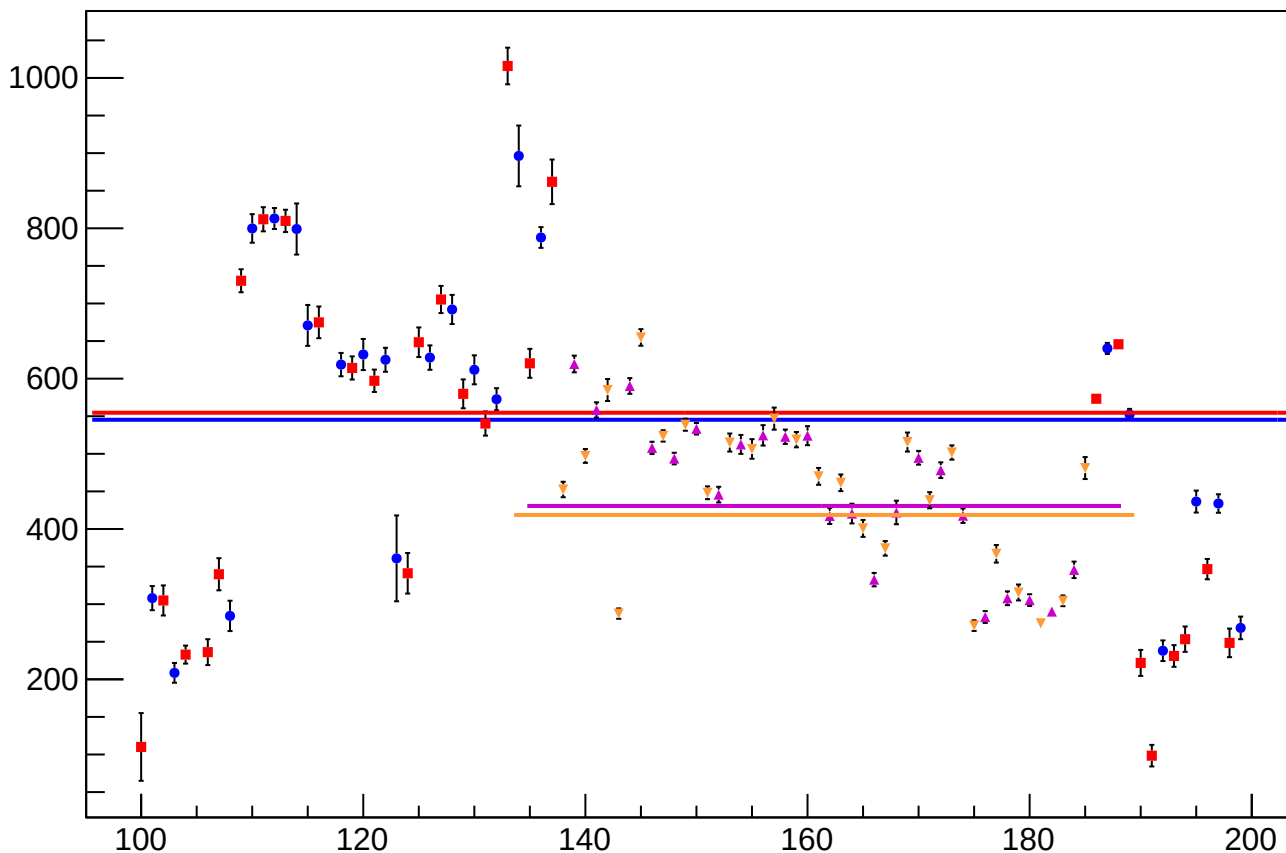
Right: 5.800 ± 1.479 $\chi^2/\text{NDF}: 1153.4/49$

In: -2.395 ± 1.249 $\chi^2/\text{NDF}: 993.9/45$

Out: 2.298 ± 1.161 $\chi^2/\text{NDF}: 1189.2/51$

All: 0.121 ± 0.850 $\chi^2/\text{NDF}: 2190.7/97$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 545.306 $\pm$ 3.010 χ^2 /NDF: 3365.9/22

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 554.652 $\pm$ 2.329 χ^2 /NDF: 6108.4/26

Left In: 430.640 $\pm$ 1.971 χ^2 /NDF:2850.6/22

Left: 424.457 $\pm$ 1.370 χ^2 /NDF: 6166.1/47

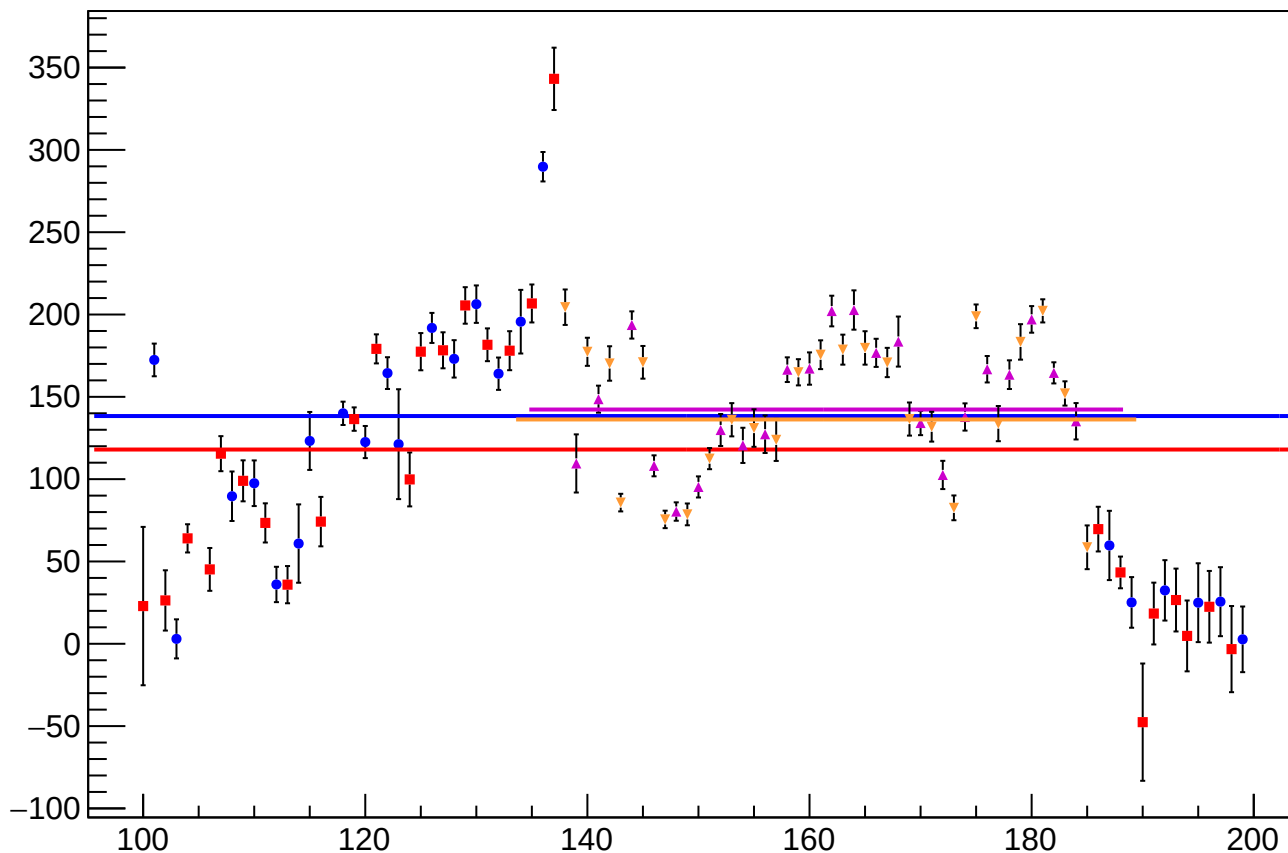
Right: 551.153 $\pm$ 1.842 χ^2 /NDF: 9480.3/49

In: 465.038 $\pm$ 1.649 χ^2 /NDF:7232.0/45

Out: 473.179 $\pm$ 1.475 χ^2 /NDF:11447.2/51

All: 469.562 $\pm$ 1.099 χ^2 /NDF: 18692.7/97

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: 117.994 ± 2.397 $\chi^2/\text{NDF}: 834.8/26$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

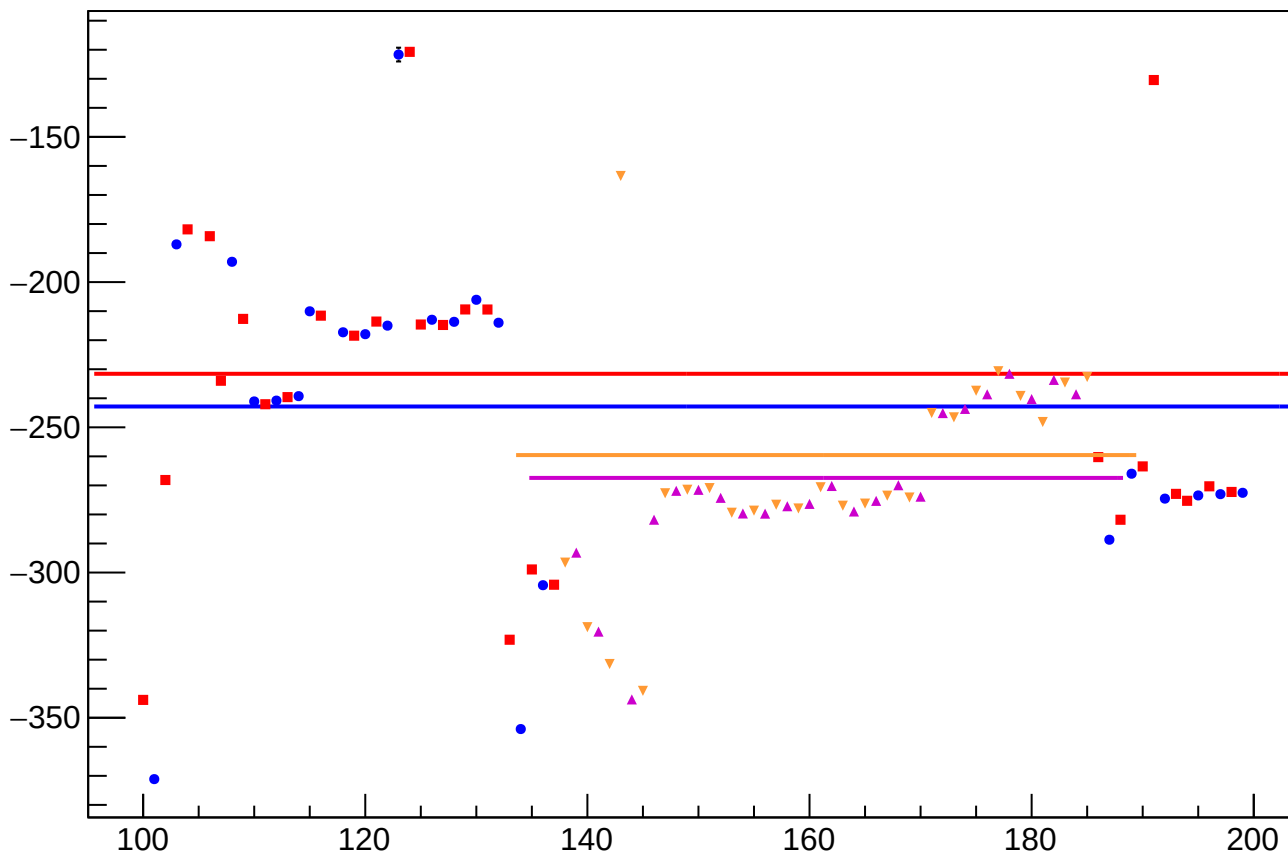
Right: 127.466 ± 1.752 $\chi^2/\text{NDF}: 1722.6/49$

In: 141.046 ± 1.443 $\chi^2/\text{NDF}: 1315.7/45$

Out: 130.383 ± 1.360 $\chi^2/\text{NDF}: 1632.4/51$

All: 135.397 ± 0.990 $\chi^2/\text{NDF}: 2977.1/97$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -242.830+/-0.132 χ^2/NDF : 159697.2/22

Left Out: -259.557+/-0.079 χ^2/NDF : 238235.2/24

Right Out: -231.569+/-0.121 χ^2/NDF : 165974.2/26

Left In: -267.417+/-0.082 χ^2/NDF : 98035.5/22

Left: -263.361+/-0.057 χ^2/NDF : 341051.4/47

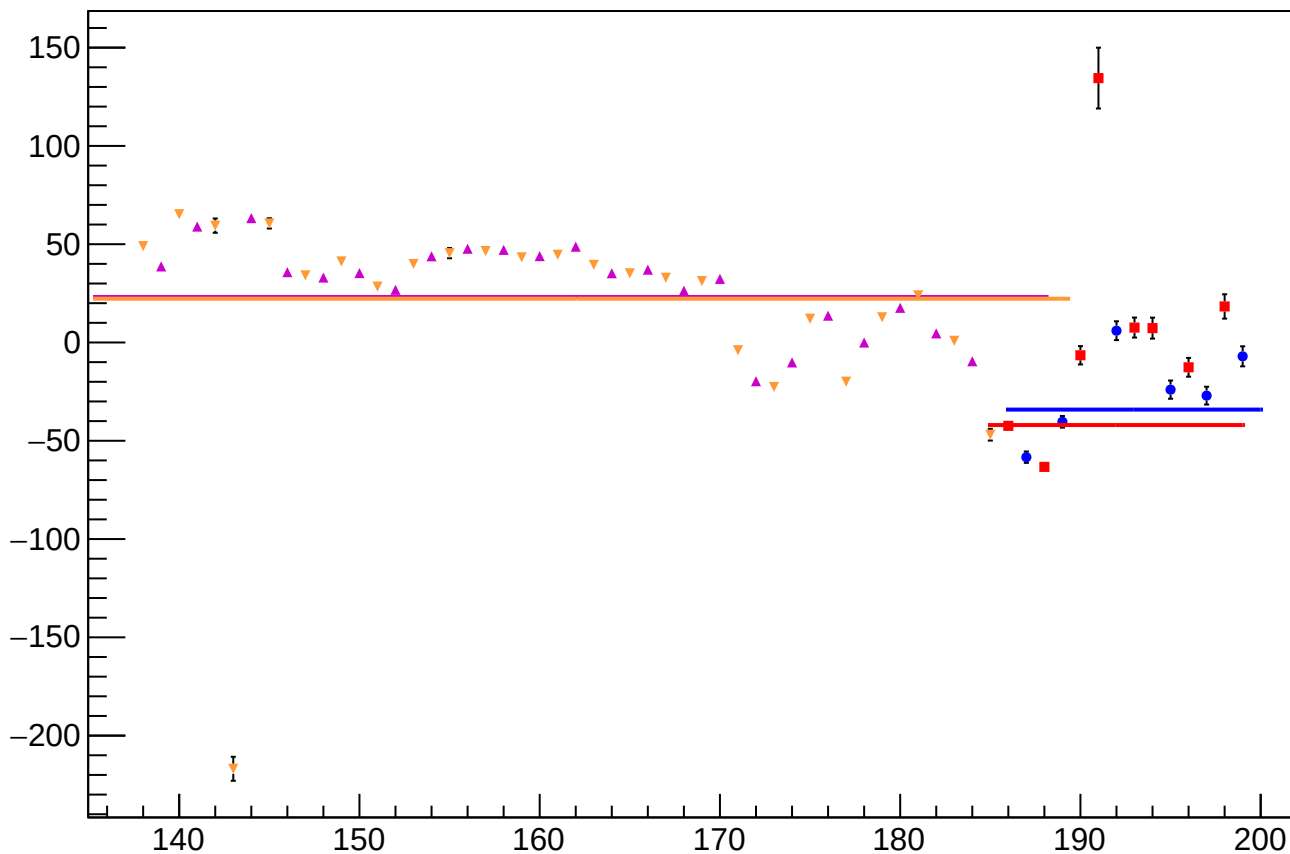
Right: -236.689+/-0.089 χ^2/NDF : 329626.6/49

In: -260.627+/-0.069 χ^2/NDF : 282761.5/45

Out: -251.154+/-0.066 χ^2/NDF : 441808.4/51

All: -255.658+/-0.048 χ^2/NDF : 734319.3/97

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: -42.001 ± 1.036 $\chi^2/\text{NDF}: 687.2/7$

Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$

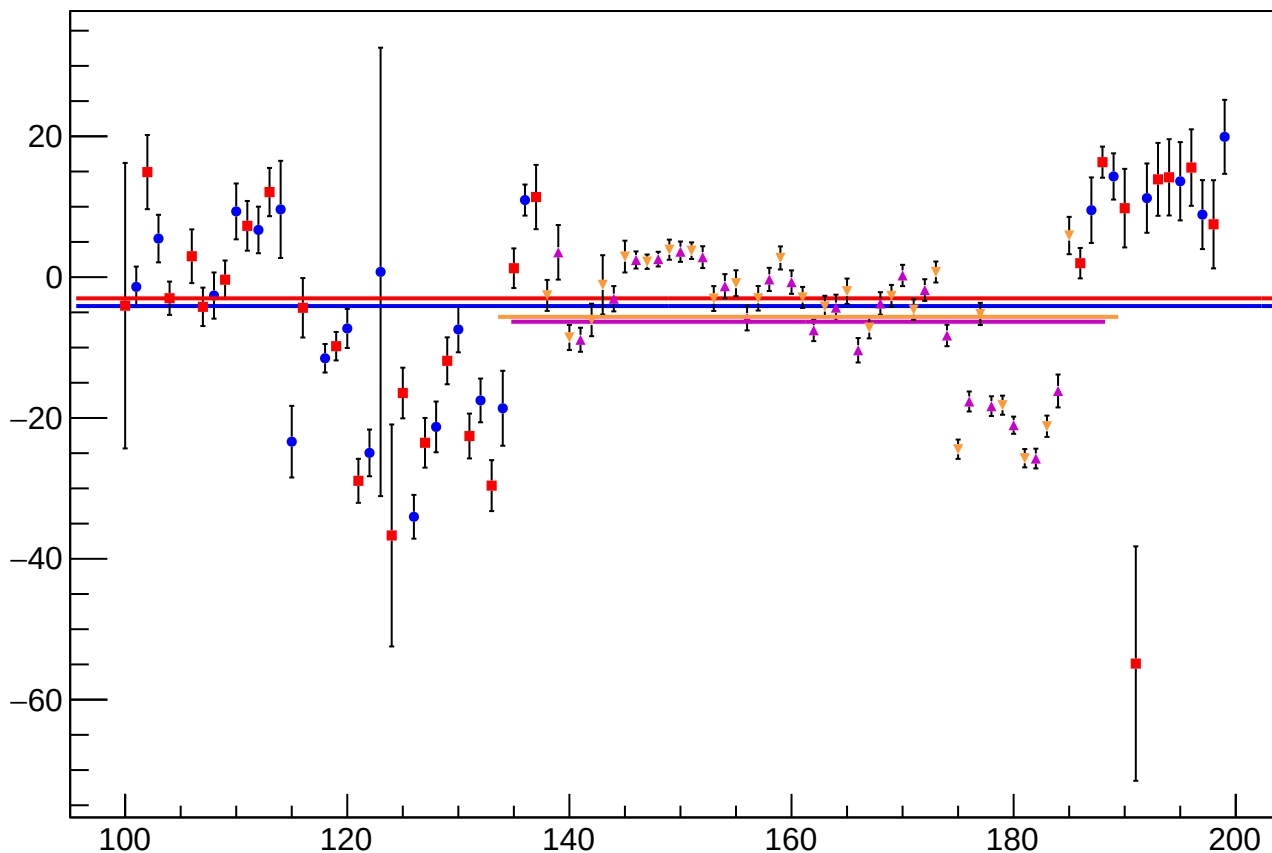
Right: -39.593 ± 0.863 $\chi^2/\text{NDF}: 885.3/13$

In: 19.573 ± 0.389 $\chi^2/\text{NDF}: 4191.6/28$

Out: 13.979 ± 0.372 $\chi^2/\text{NDF}: 9213.5/32$

All: 16.654 ± 0.269 $\chi^2/\text{NDF}: 13513.1/61$

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: -3.009 ± 0.658 $\chi^2/\text{NDF}: 418.8/26$

Left In: -6.337 ± 0.321 $\chi^2/\text{NDF}: 783.0/22$

Left: -5.983 ± 0.225 $\chi^2/\text{NDF}: 1679.1/47$

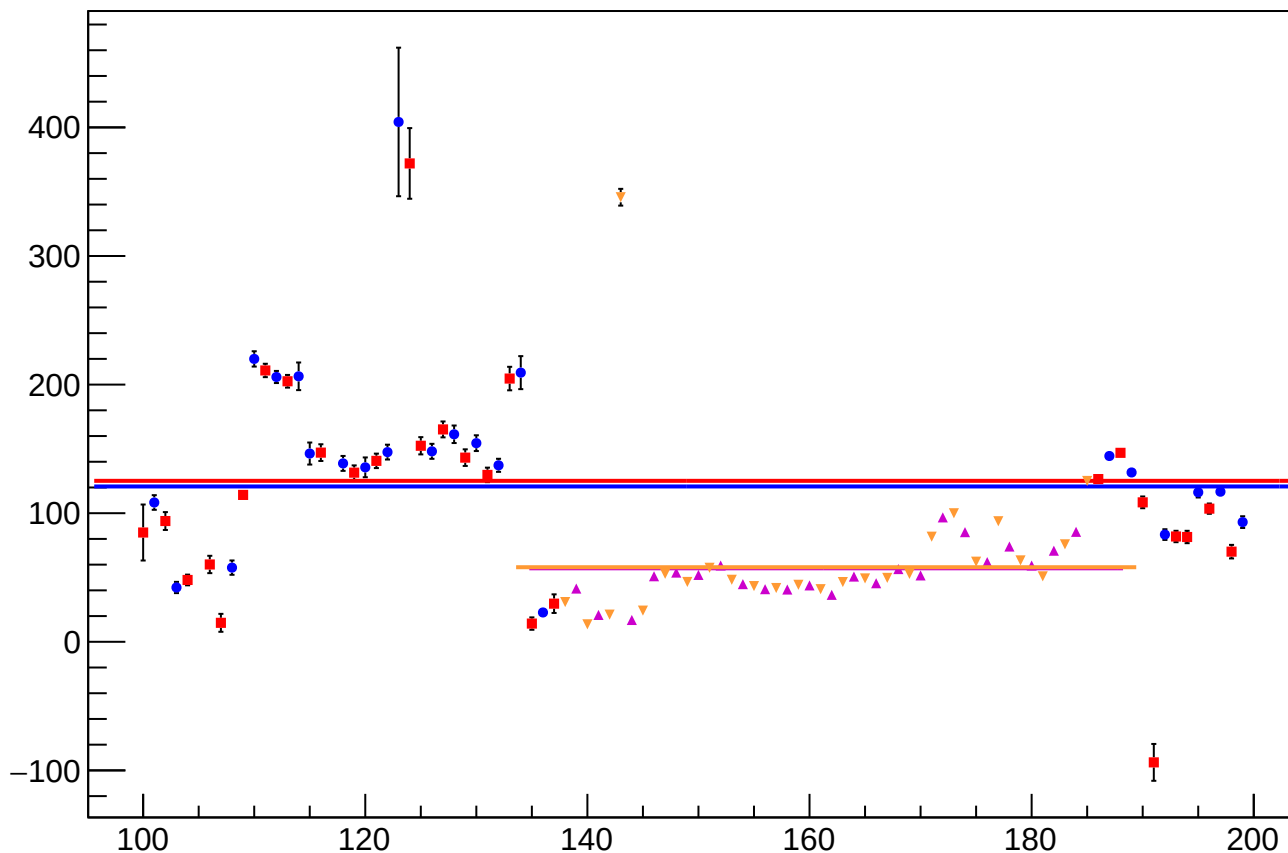
Right: -3.503 ± 0.488 $\chi^2/\text{NDF}: 800.7/49$

In: -5.973 ± 0.294 $\chi^2/\text{NDF}: 1171.5/45$

Out: -5.150 ± 0.284 $\chi^2/\text{NDF}: 1325.5/51$

All: -5.548 ± 0.204 $\chi^2/\text{NDF}: 2501.1/97$

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: 125.169 $\pm$ 0.721 χ^2 /NDF: 3049.5/26

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

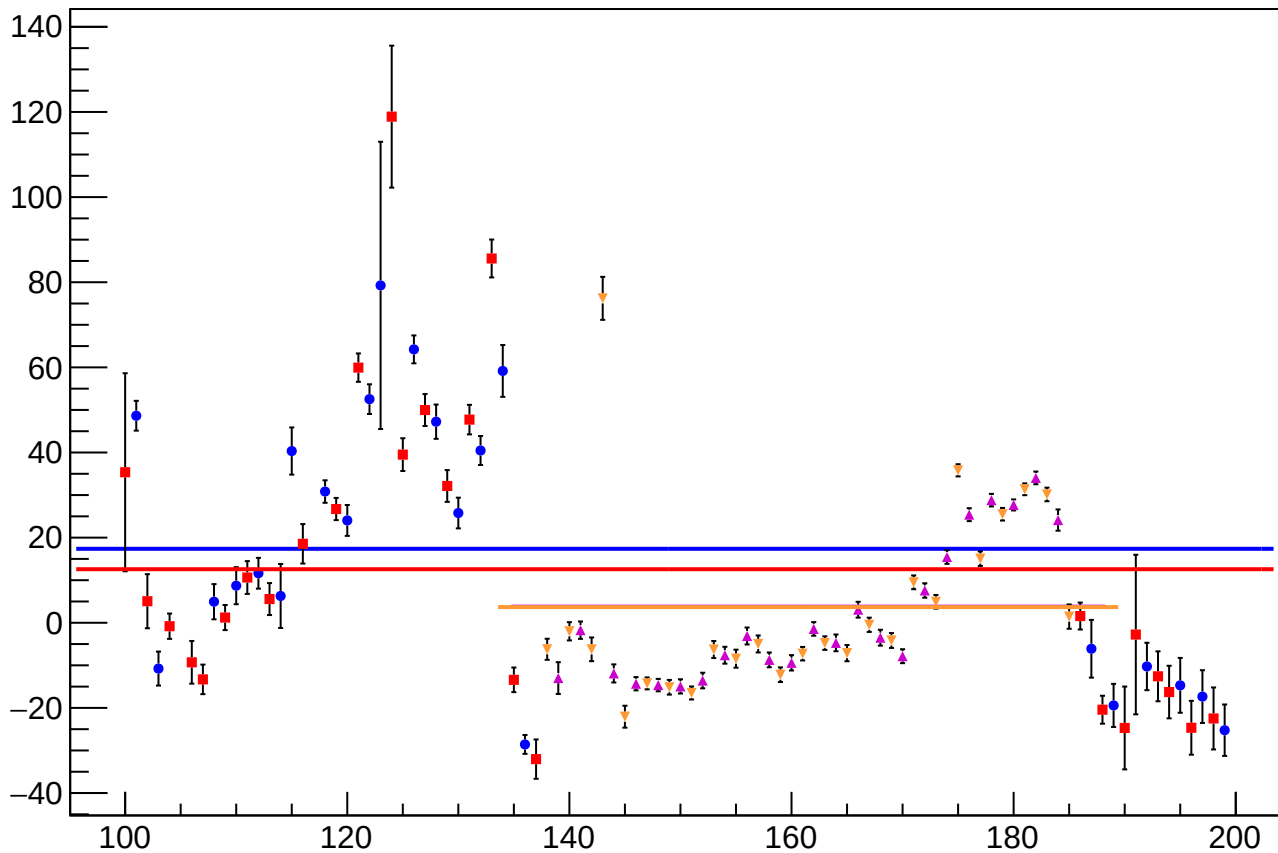
Right: 123.598 $\pm$ 0.577 χ^2 /NDF: 5467.6/49

In: 66.477 $\pm$ 0.369 χ^2 /NDF:7931.2/45

Out: 73.691 $\pm$ 0.348 χ^2 /NDF:14346.1/51

All: 70.292 $\pm$ 0.253 χ^2 /NDF: 22479.3/97

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: 12.581+/-0.786 χ^2 /NDF: 1337.7/26

Left In: 3.786+/-0.362 χ^2 /NDF:2198.8/22

Left: 3.734+/-0.254 χ^2 /NDF: 4740.5/47

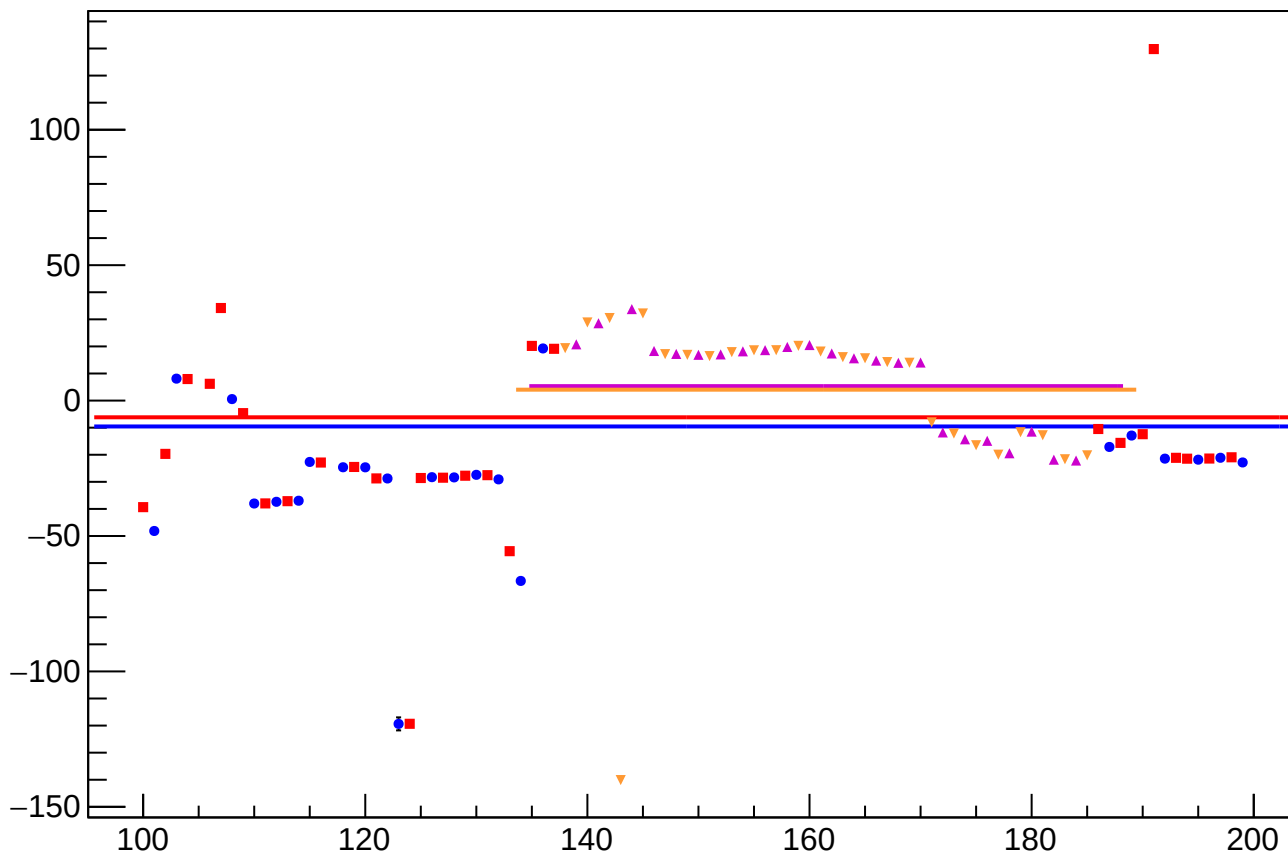
Right: 14.808+/-0.575 χ^2 /NDF: 2637.7/49

In: 5.896+/-0.333 χ^2 /NDF:3700.7/45

Out: 5.204+/-0.325 χ^2 /NDF:3985.6/51

All: 5.542+/-0.232 χ^2 /NDF: 7688.5/97

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: -6.171+/-0.039 χ^2/NDF : 368950.2/26

Left In: 5.335+/-0.016 χ^2/NDF :1077818.8/22

Left: 4.678+/-0.012 χ^2/NDF : 2464153.9/47

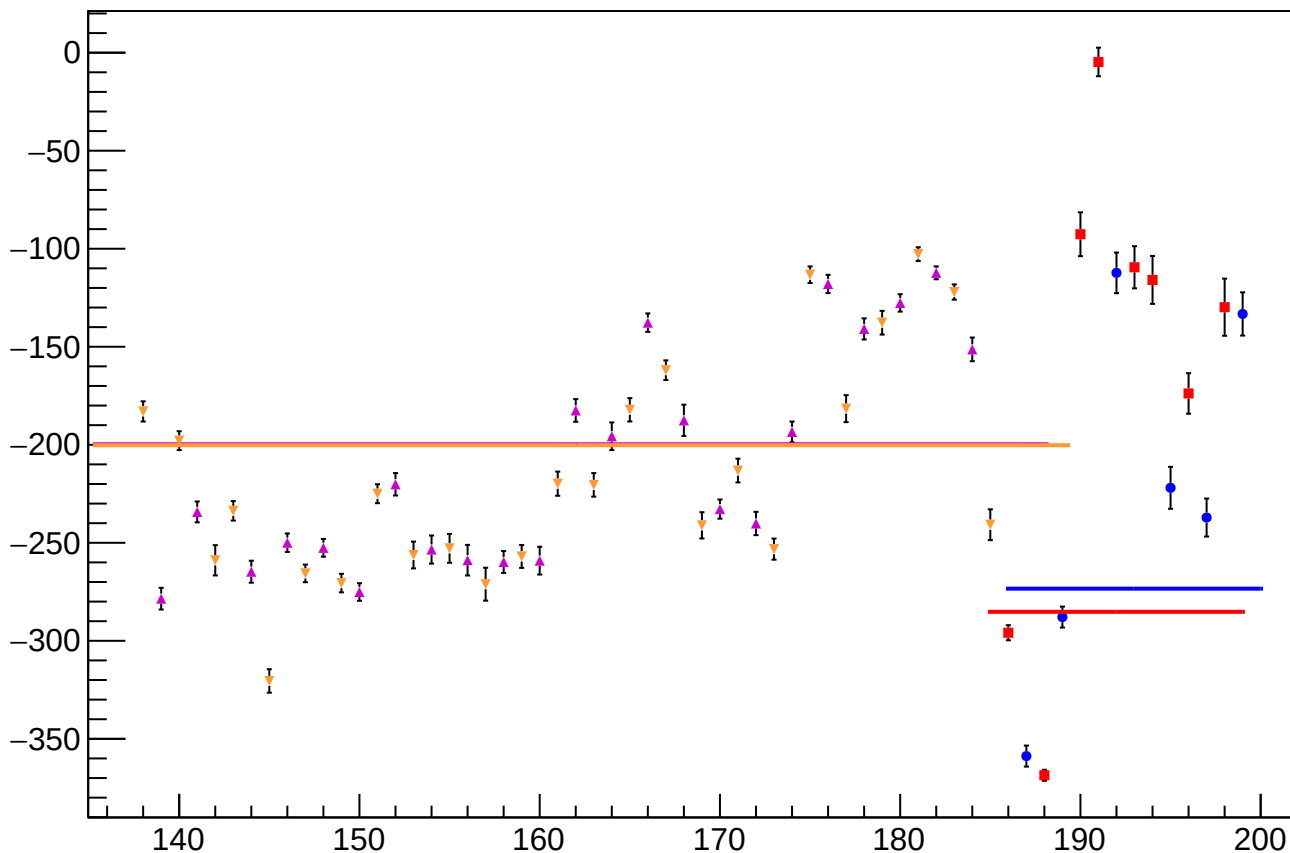
Right: -7.793+/-0.028 χ^2/NDF : 659391.4/49

In: 3.248+/-0.015 χ^2/NDF :1479871.5/45

Out: 2.502+/-0.015 χ^2/NDF :1810120.1/51

All: 2.871+/-0.011 χ^2/NDF : 3291202.1/97

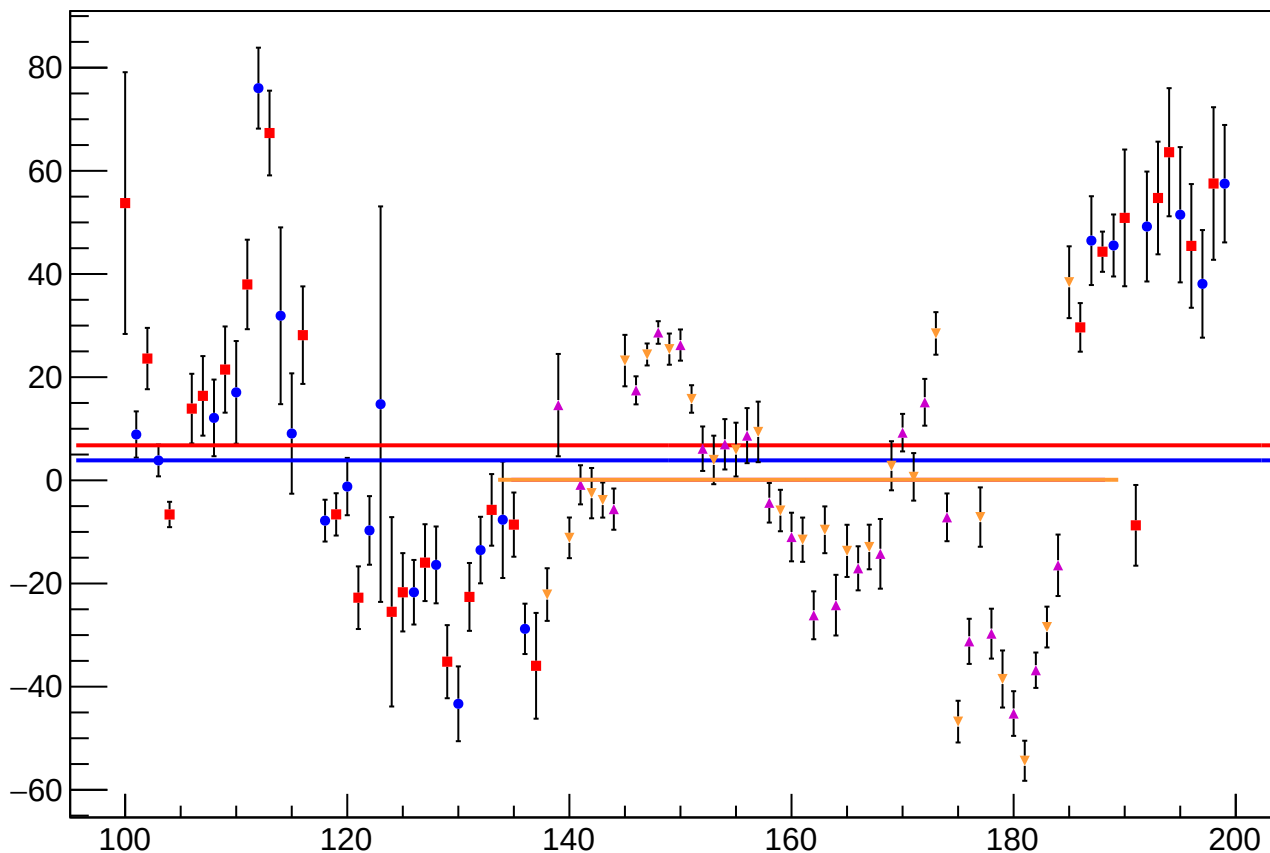
reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



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: -285.214 ± 2.000 $\chi^2/\text{NDF}: 3357.1/7$
 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: -281.677 ± 1.674 $\chi^2/\text{NDF}: 4068.9/13$
 In: -208.125 ± 1.033 $\chi^2/\text{NDF}: 4182.1/28$
 Out: -219.356 ± 0.949 $\chi^2/\text{NDF}: 7981.4/32$
 All: -214.217 ± 0.699 $\chi^2/\text{NDF}: 12227.7/61$

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: 6.788 ± 1.221 χ^2/NDF : 455.4/26

Left In: 0.097 ± 0.838 χ^2/NDF : 715.5/22

Left: 0.103 ± 0.581 χ^2/NDF : 1546.7/47

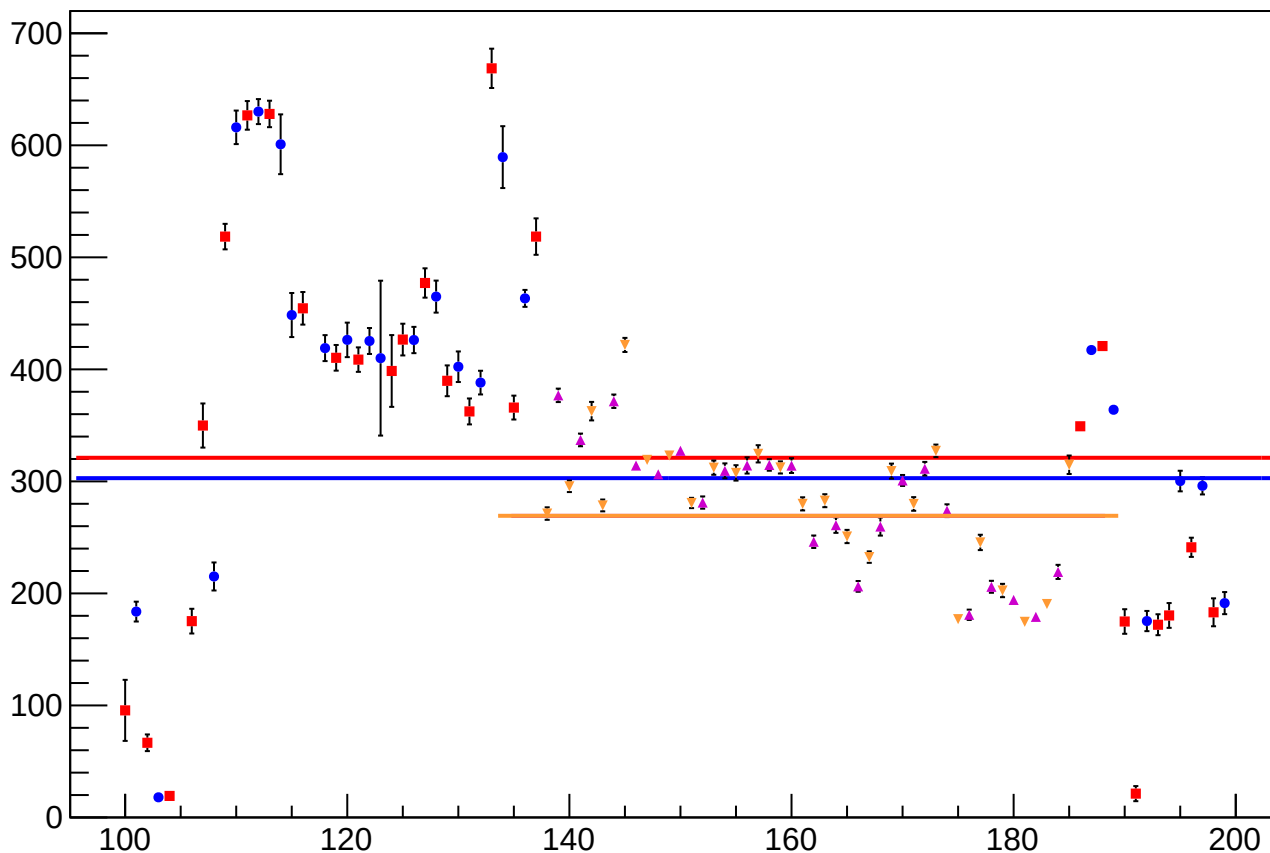
Right: 5.493 ± 0.910 χ^2/NDF : 819.3/49

In: 1.129 ± 0.714 χ^2/NDF : 1082.4/45

Out: 2.140 ± 0.673 χ^2/NDF : 1307.5/51

All: 1.665 ± 0.490 χ^2/NDF : 2390.9/97

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: 321.066 $\pm$ 1.364 χ^2 /NDF: 13605.6/26

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

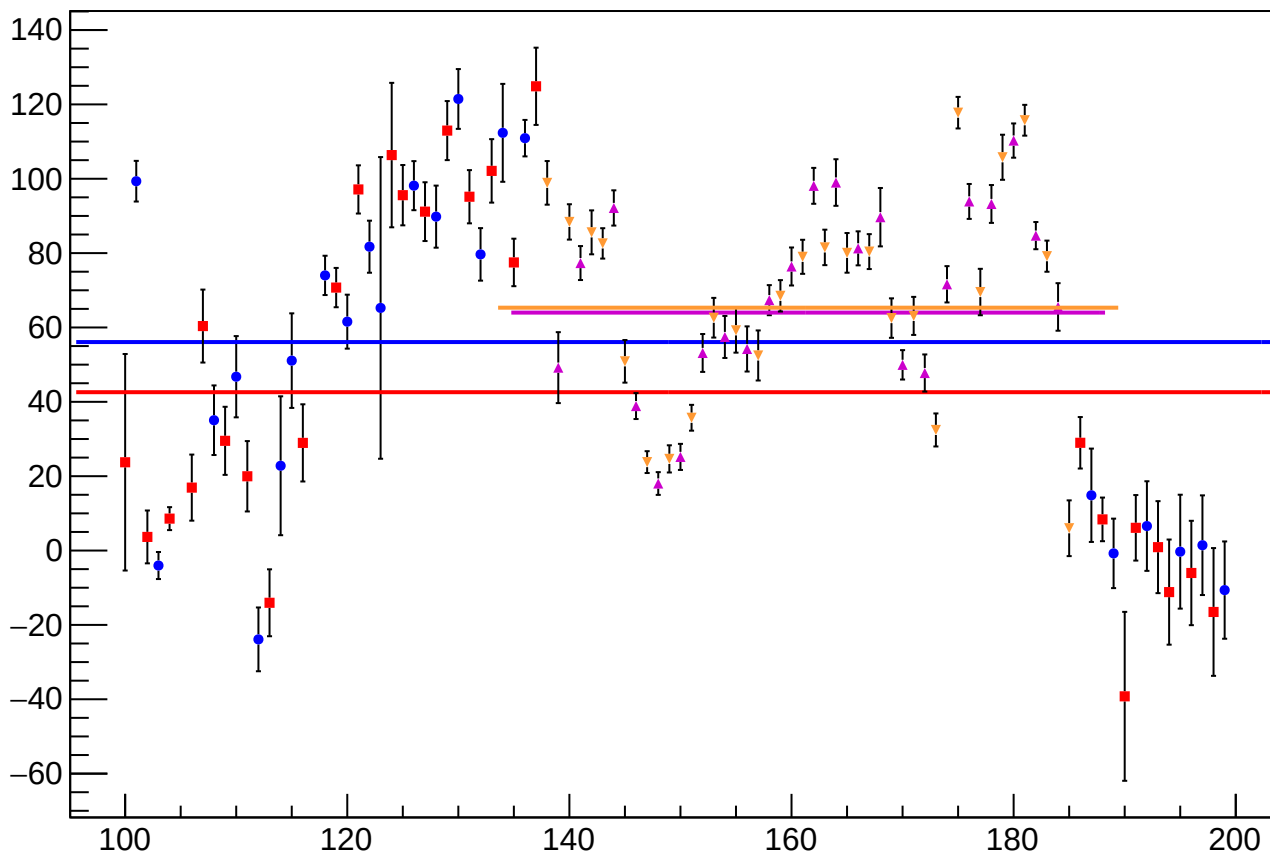
Right: 314.353 $\pm$ 1.084 χ^2 /NDF: 22710.8/49

In: 278.363 $\pm$ 0.930 χ^2 /NDF:12469.6/45

Out: 289.172 $\pm$ 0.846 χ^2 /NDF:17639.6/51

All: 284.282 $\pm$ 0.626 χ^2 /NDF: 30183.1/97

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 56.077 $\pm$ 1.606 χ^2 /NDF: 855.4/22

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 42.592 $\pm$ 1.483 χ^2 /NDF: 794.0/26

Left In: 63.999 $\pm$ 0.963 χ^2 /NDF:799.5/22

Left: 64.681 $\pm$ 0.671 χ^2 /NDF: 1807.5/47

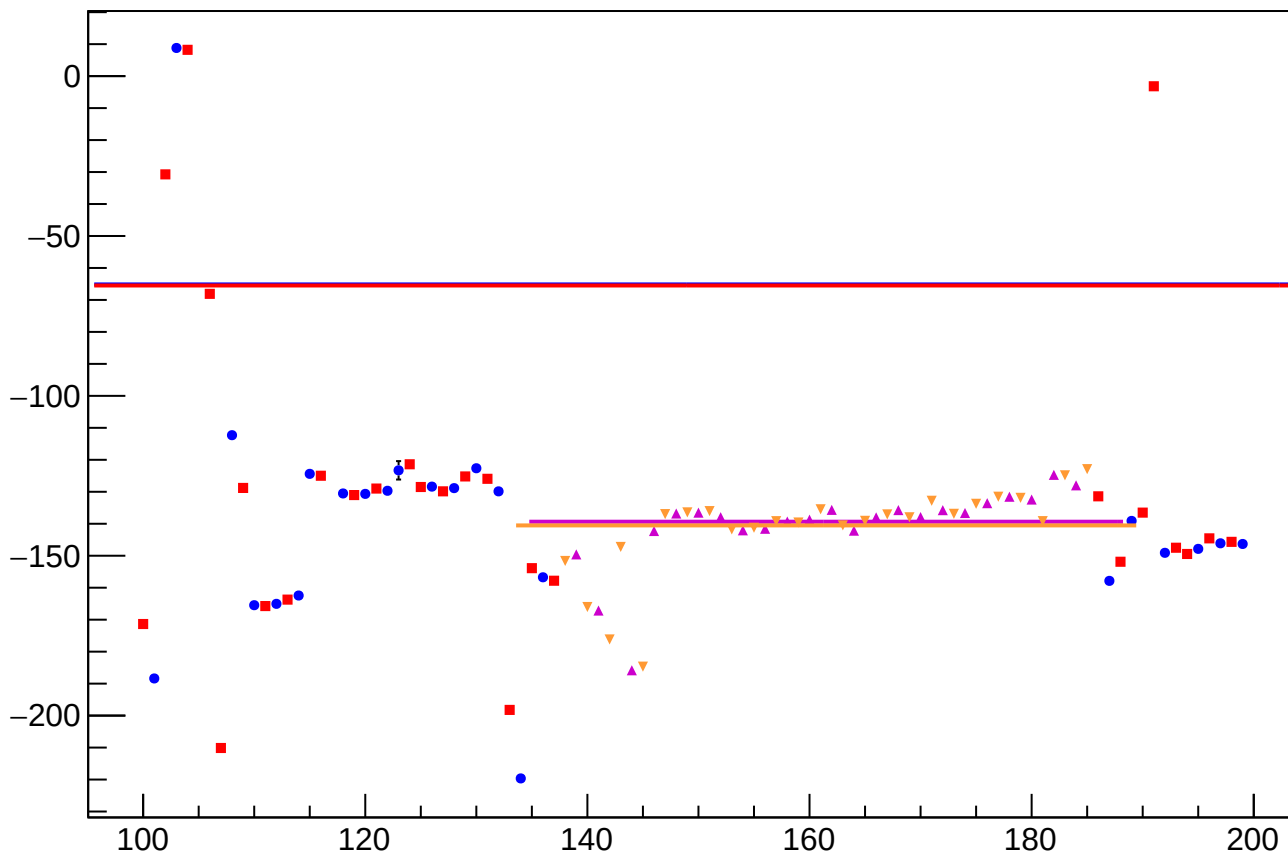
Right: 48.798 $\pm$ 1.089 χ^2 /NDF: 1687.5/49

In: 61.904 $\pm$ 0.826 χ^2 /NDF:1672.8/45

Out: 58.861 $\pm$ 0.791 χ^2 /NDF:1969.3/51

All: 60.316 $\pm$ 0.571 χ^2 /NDF: 3649.2/97

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: -65.481 ± 0.064 $\chi^2/\text{NDF}: 1298658.4/26$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

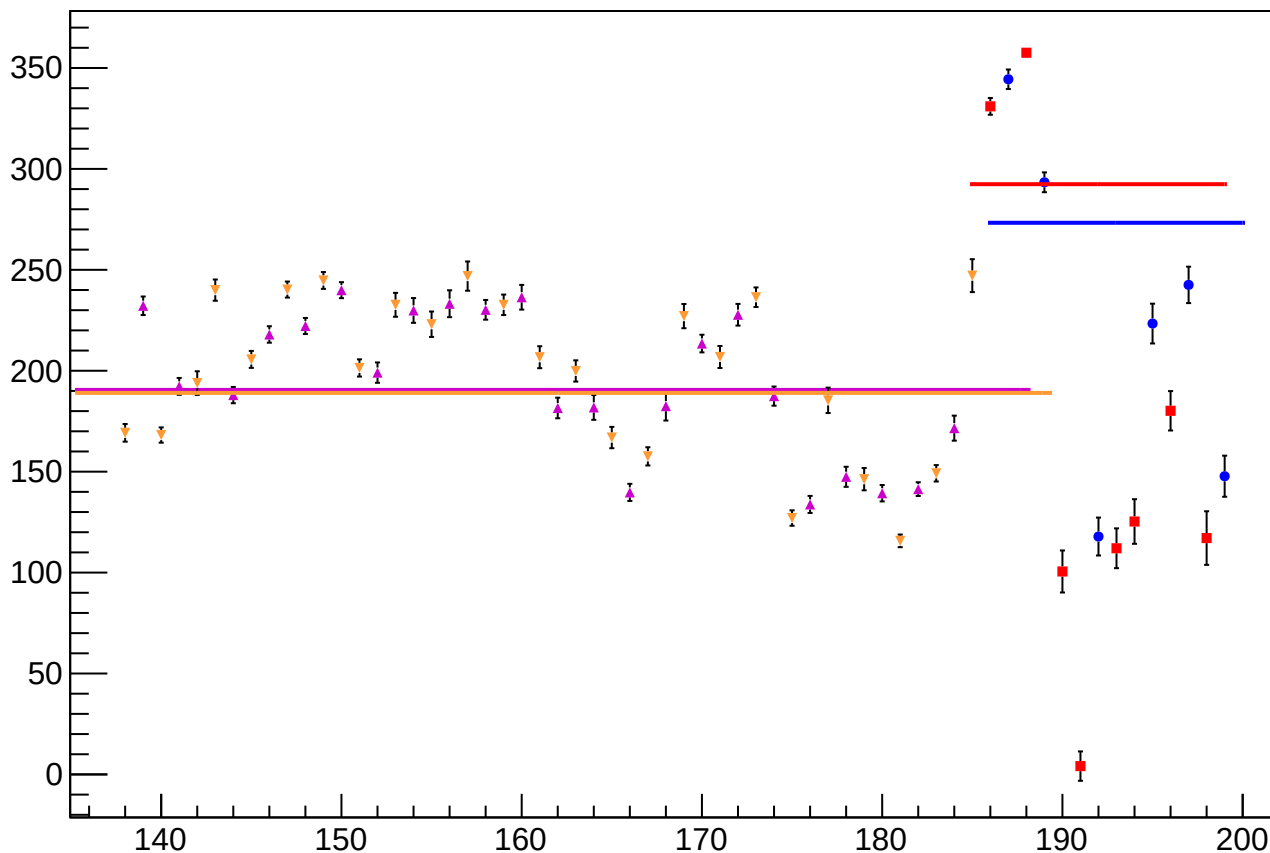
Right: -65.321 ± 0.046 $\chi^2/\text{NDF}: 2749046.5/49$

In: -115.699 ± 0.037 $\chi^2/\text{NDF}: 2379533.4/45$

Out: -115.782 ± 0.036 $\chi^2/\text{NDF}: 2311254.3/51$

All: -115.742 ± 0.026 $\chi^2/\text{NDF}: 4690790.3/97$

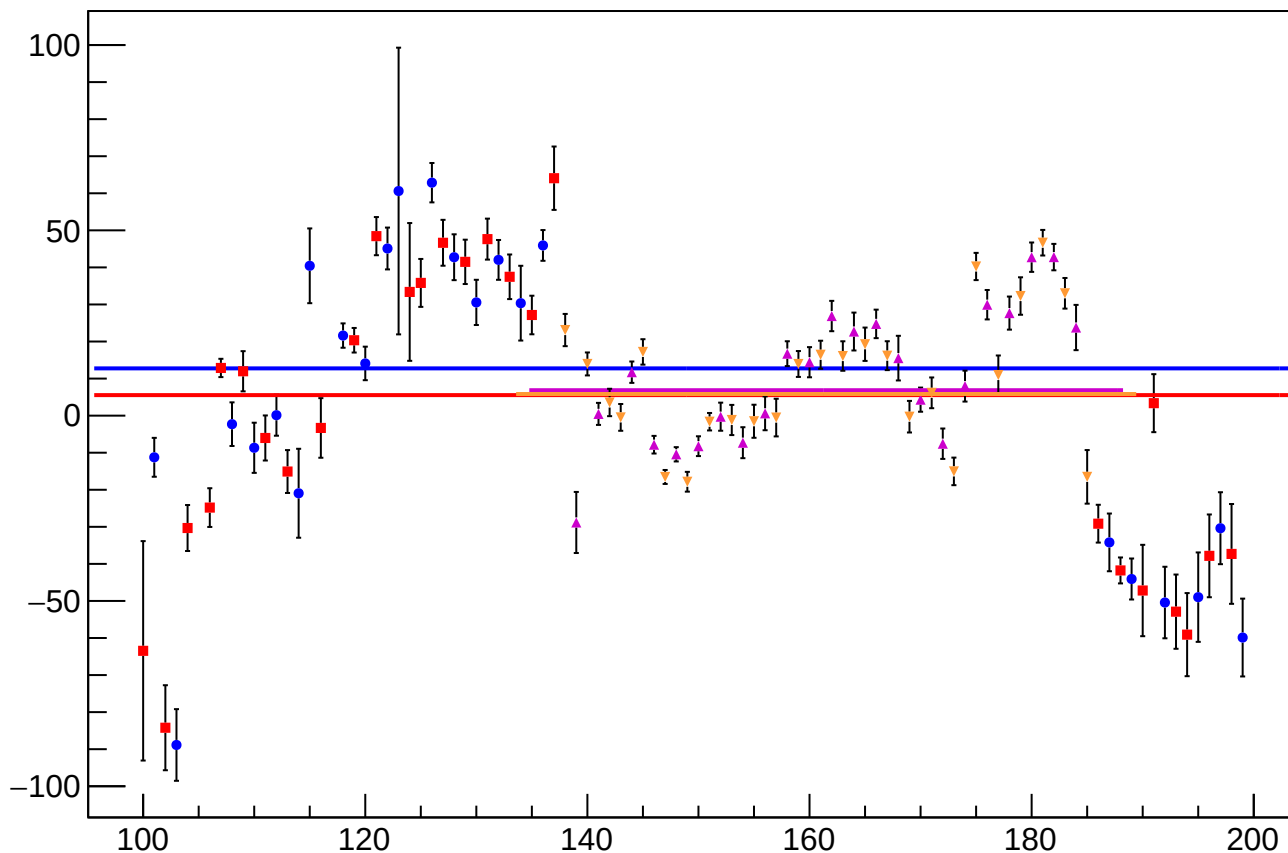
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 273.308 $\pm$ 2.799 χ^2 /NDF: 695.8/5
 Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24
 Right Out: 292.433 $\pm$ 1.890 χ^2 /NDF: 3540.8/7
 Left In: 190.506 $\pm$ 0.975 χ^2 /NDF:1412.7/22

Left: 189.753 $\pm$ 0.683 χ^2 /NDF: 3394.8/47
 Right: 286.444 $\pm$ 1.566 χ^2 /NDF: 4268.6/13
 In: 199.468 $\pm$ 0.921 χ^2 /NDF:2889.0/28
 Out: 210.095 $\pm$ 0.853 χ^2 /NDF:7905.6/32
 All: 205.187 $\pm$ 0.626 χ^2 /NDF: 10866.2/61

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: 5.540 ± 1.093 χ^2/NDF : 845.2/26

Left In: 6.862 ± 0.736 χ^2/NDF : 522.7/22

Left: 6.331 ± 0.512 χ^2/NDF : 1176.0/47

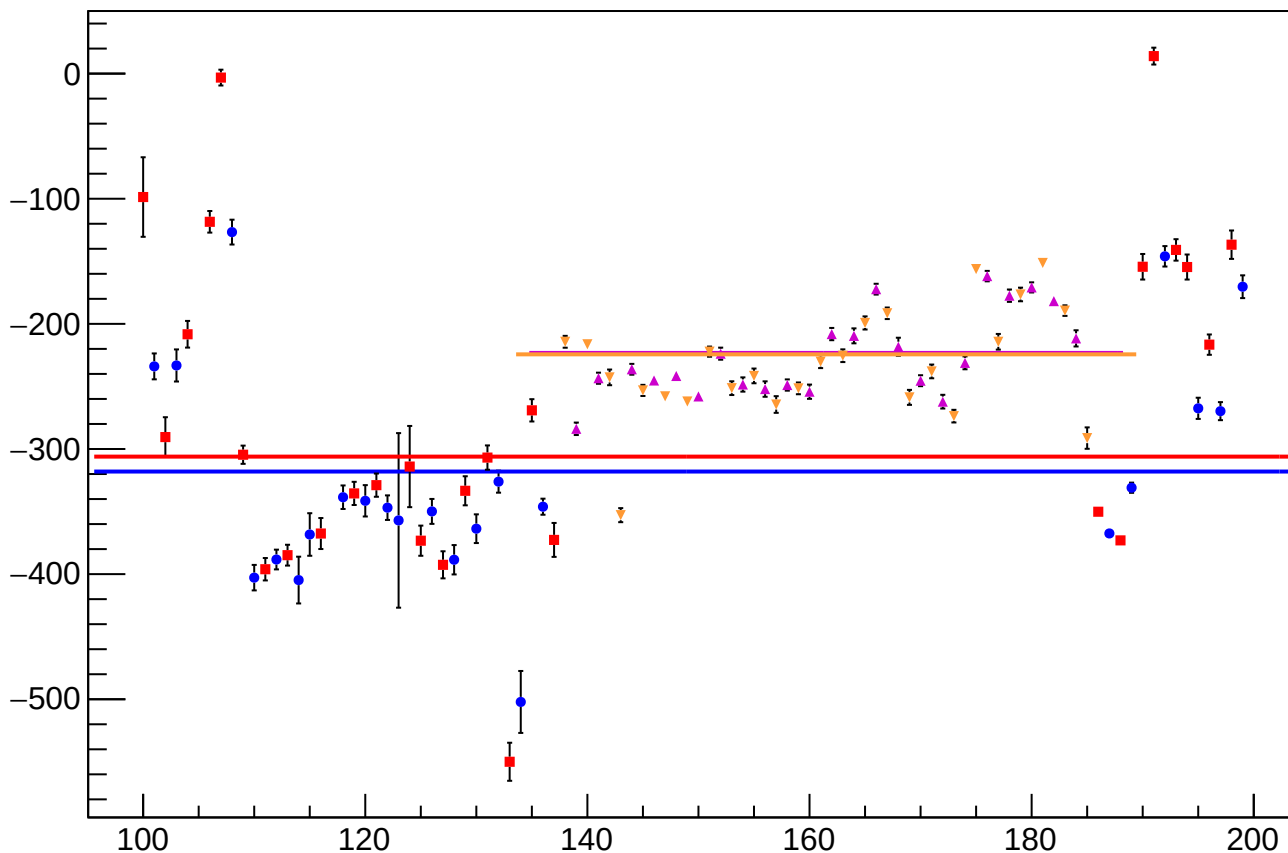
Right: 8.546 ± 0.835 χ^2/NDF : 1569.8/49

In: 8.304 ± 0.640 χ^2/NDF : 1244.9/45

Out: 5.747 ± 0.597 χ^2/NDF : 1497.5/51

All: 6.937 ± 0.436 χ^2/NDF : 2750.9/97

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -318.015 ± 1.732 χ^2/NDF : 1767.0/22

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -306.089 ± 1.290 χ^2/NDF : 8233.8/26

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

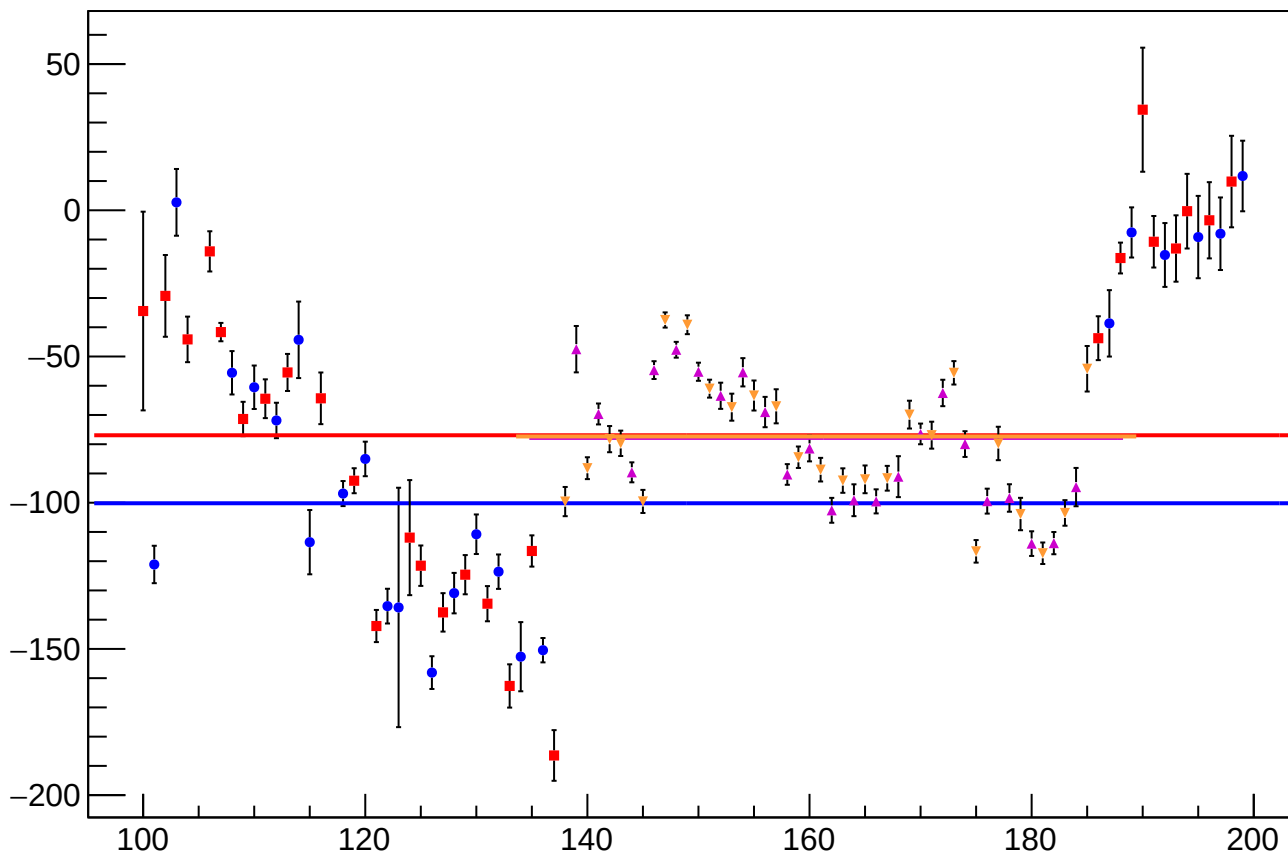
Right: -310.345 ± 1.035 χ^2/NDF : 10031.3/49

In: -245.831 ± 0.846 χ^2/NDF : 5317.8/45

Out: -253.336 ± 0.768 χ^2/NDF : 12927.6/51

All: -249.943 ± 0.569 χ^2/NDF : 18288.5/97

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -100.187 ± 1.510 $\chi^2/\text{NDF}: 940.9/22$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -76.936 ± 1.315 $\chi^2/\text{NDF}: 1399.8/26$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

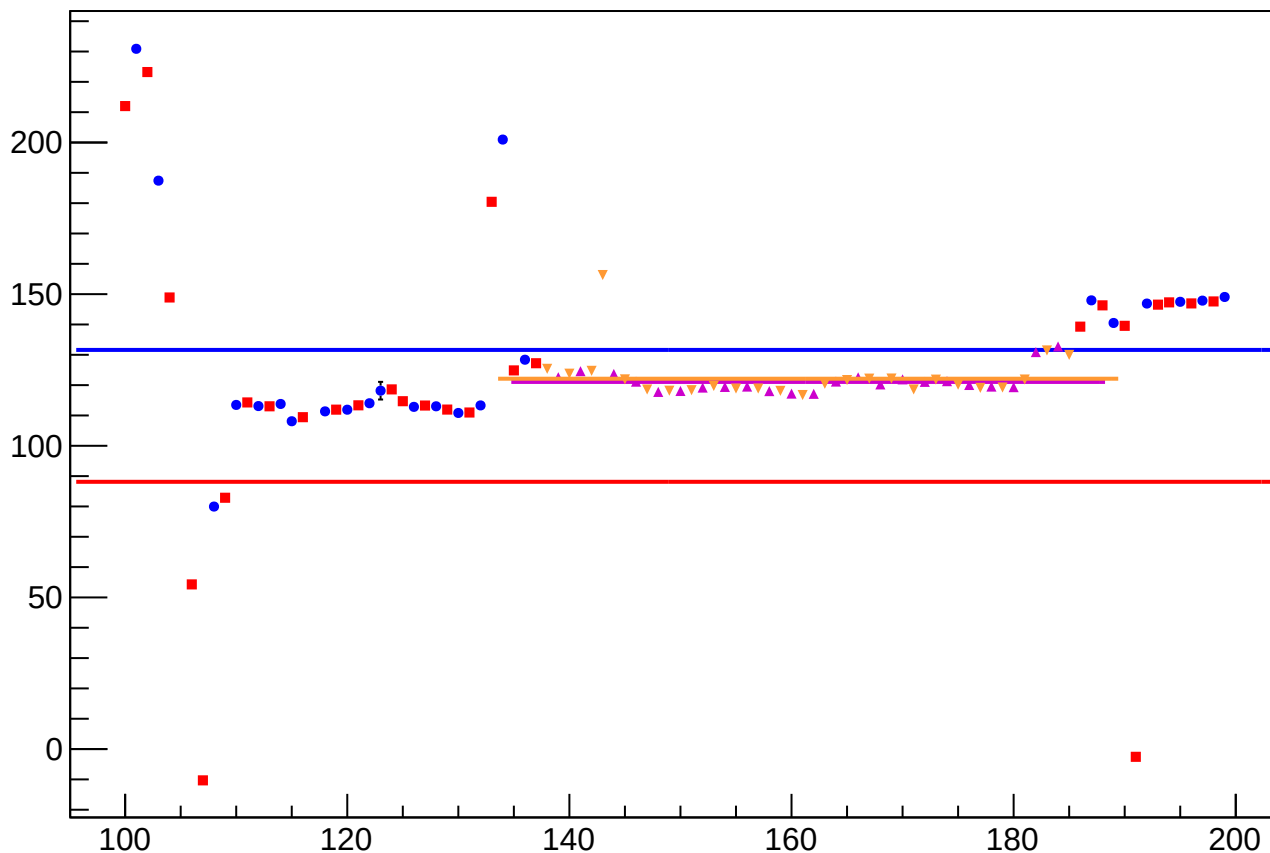
Right: -86.960 ± 0.992 $\chi^2/\text{NDF}: 2475.5/49$

In: -83.202 ± 0.740 $\chi^2/\text{NDF}: 1730.1/45$

Out: -77.228 ± 0.700 $\chi^2/\text{NDF}: 2246.1/51$

All: -80.049 ± 0.508 $\chi^2/\text{NDF}: 4010.6/97$

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: 88.126 $\pm$ 0.065 χ^2 /NDF: 1057824.0/26

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

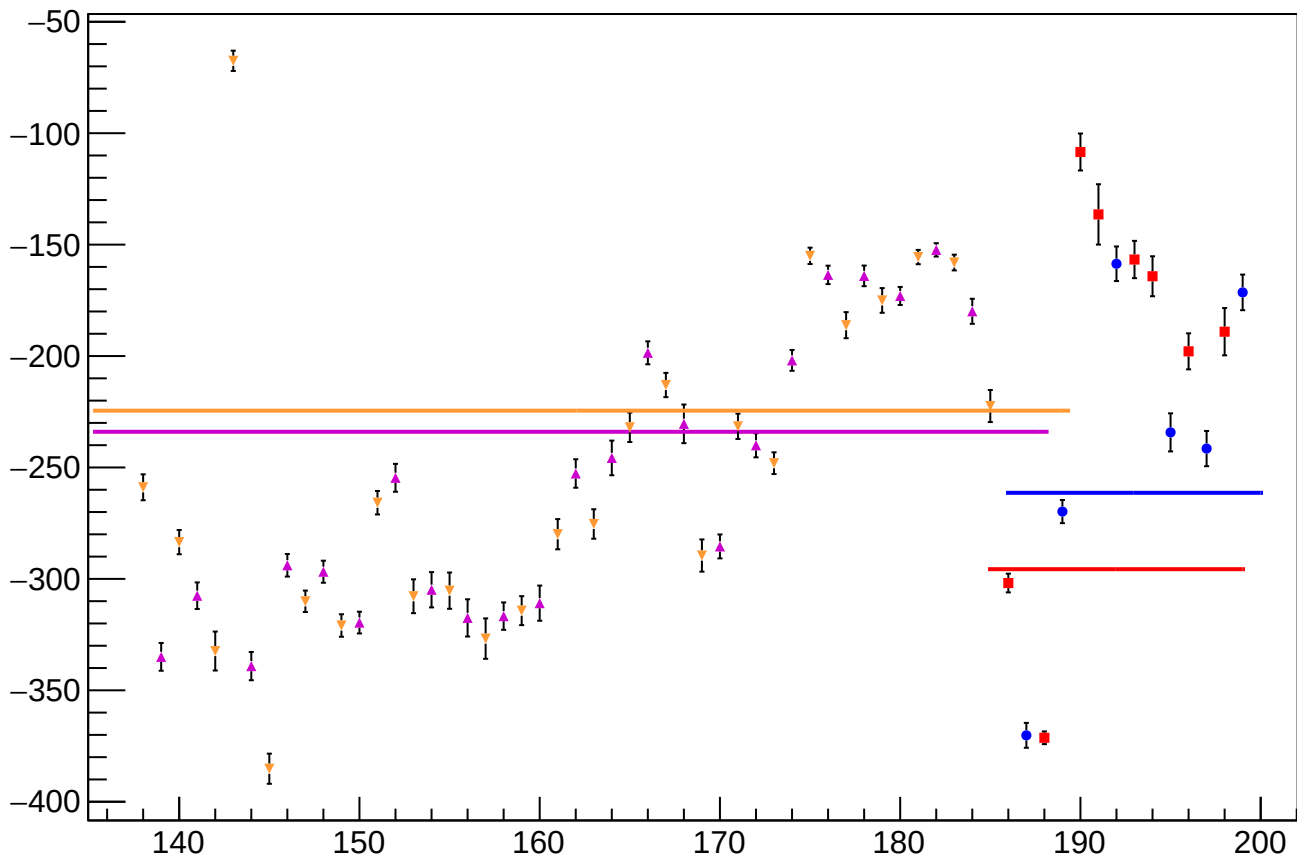
Right: 105.647 $\pm$ 0.050 χ^2 /NDF: 1436551.8/49

In: 123.182 $\pm$ 0.036 χ^2 /NDF: 220429.7/45

Out: 112.977 $\pm$ 0.034 χ^2 /NDF: 1288372.1/51

All: 117.813 $\pm$ 0.024 χ^2 /NDF: 1552264.6/97

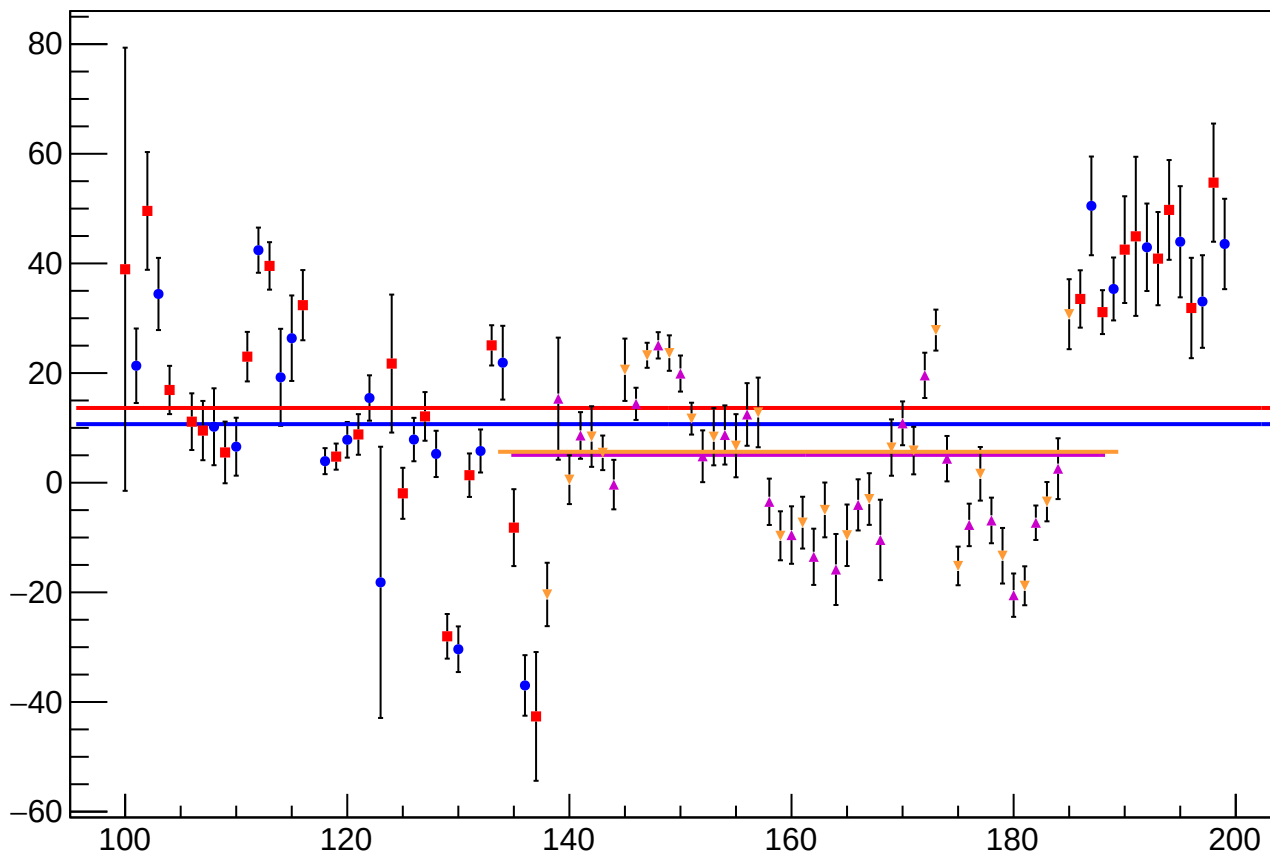
reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -261.366 ± 2.762 $\chi^2/\text{NDF}: 700.8/5$
 Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$
 Right Out: -295.642 ± 1.998 $\chi^2/\text{NDF}: 2091.5/7$
 Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$
 Right: -283.866 ± 1.619 $\chi^2/\text{NDF}: 2893.4/13$
 In: -237.785 ± 1.029 $\chi^2/\text{NDF}: 4323.8/28$
 Out: -240.560 ± 0.949 $\chi^2/\text{NDF}: 7943.3/32$
 All: -239.284 ± 0.698 $\chi^2/\text{NDF}: 12271.0/61$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.684 $\pm$ 1.045 χ^2 /NDF: 358.2/22

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 13.633 $\pm$ 0.986 χ^2 /NDF: 339.1/26

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

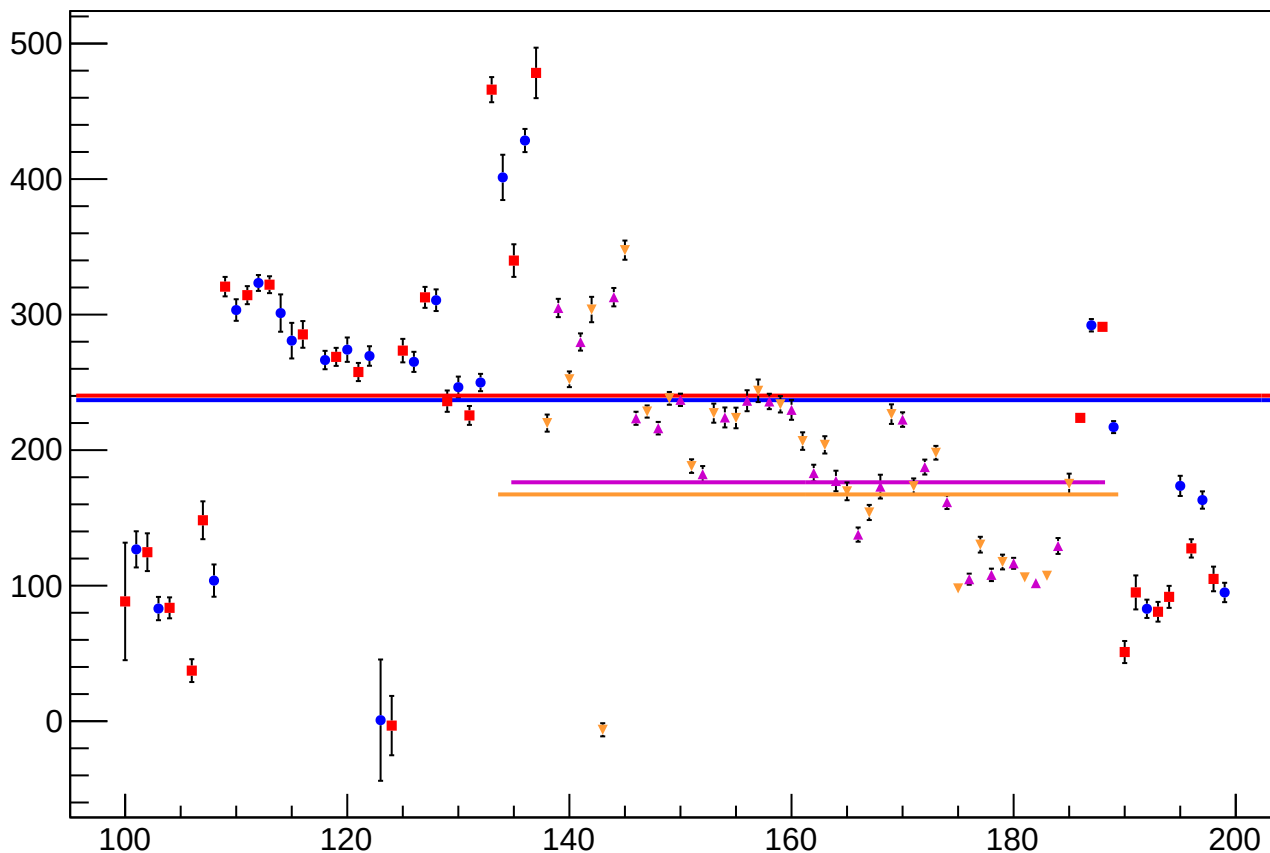
Right: 12.245 $\pm$ 0.717 χ^2 /NDF: 701.6/49

In: 7.369 $\pm$ 0.668 χ^2 /NDF:614.9/45

Out: 8.946 $\pm$ 0.634 χ^2 /NDF:691.4/51

All: 8.199 $\pm$ 0.460 χ^2 /NDF: 1309.2/97

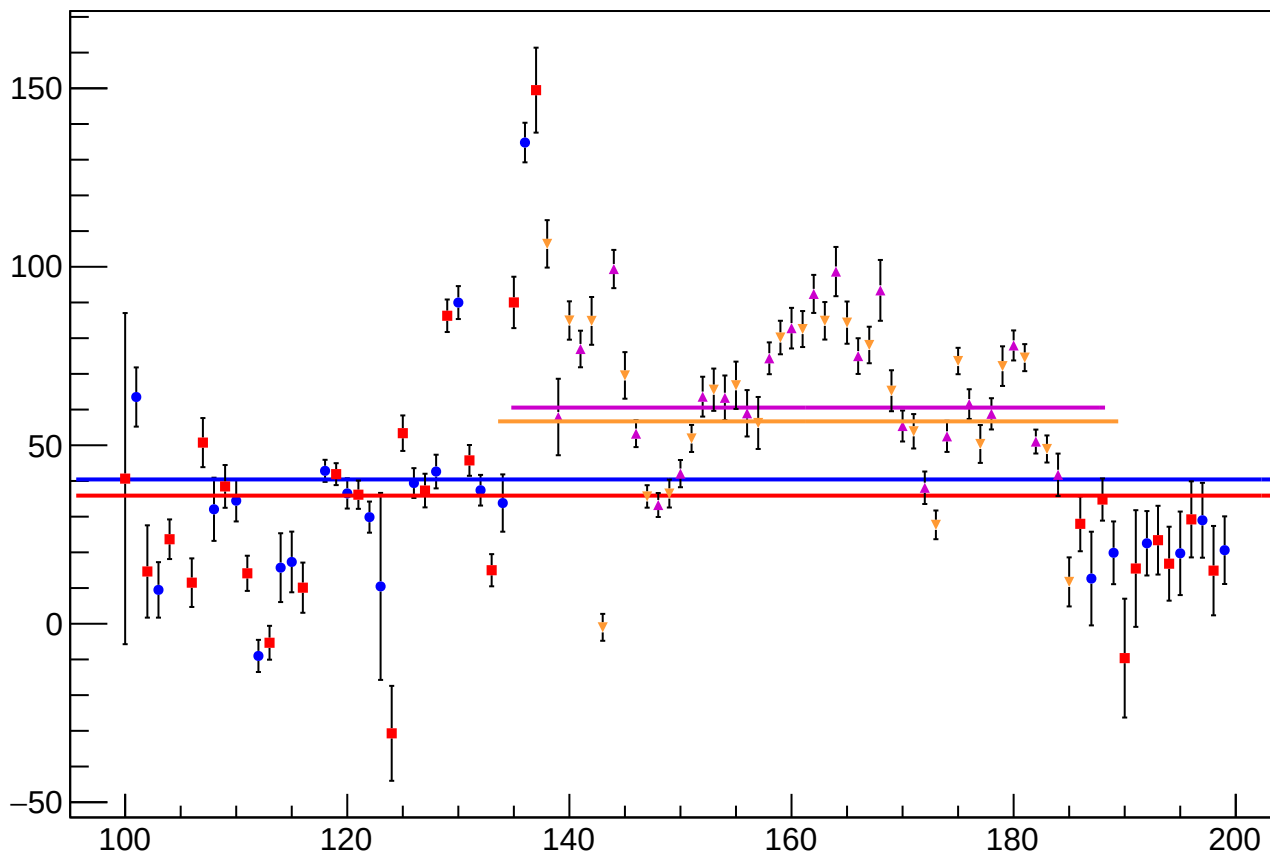
reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



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: 240.227 ± 1.268 $\chi^2/\text{NDF}: 5135.5/26$
 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: 238.895 ± 0.984 $\chi^2/\text{NDF}: 8044.8/49$
 In: 196.526 ± 0.902 $\chi^2/\text{NDF}: 7080.1/45$
 Out: 198.052 ± 0.823 $\chi^2/\text{NDF}: 11501.4/51$
 All: 197.358 ± 0.608 $\chi^2/\text{NDF}: 18583.0/97$

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: 35.894 $\pm$ 1.161 χ^2 /NDF: 490.2/26

Left In: 60.555 $\pm$ 0.990 χ^2 /NDF:335.6/22

Left: 58.548 $\pm$ 0.686 χ^2 /NDF: 1034.0/47

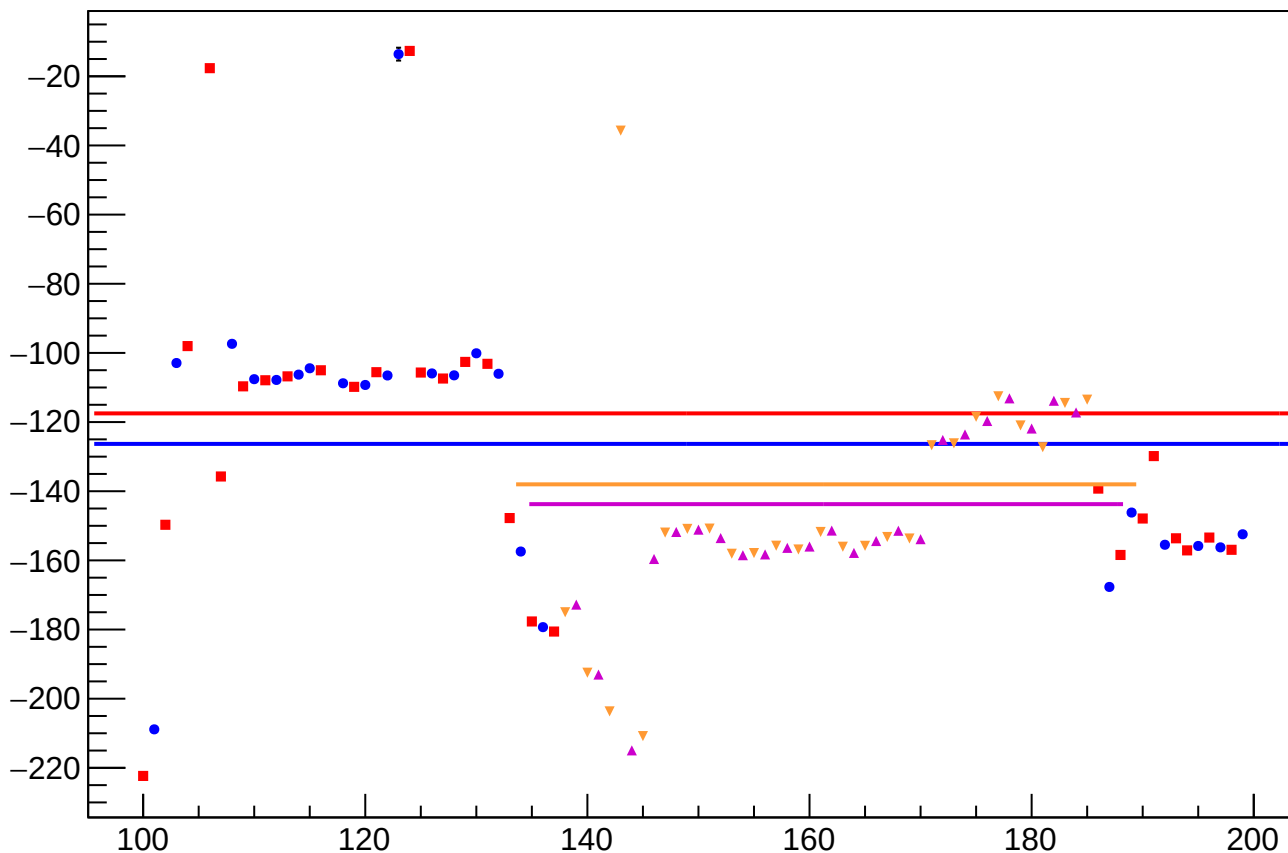
Right: 38.048 $\pm$ 0.841 χ^2 /NDF: 1095.2/49

In: 52.559 $\pm$ 0.769 χ^2 /NDF:1097.5/45

Out: 48.335 $\pm$ 0.736 χ^2 /NDF:1372.6/51

All: 50.355 $\pm$ 0.532 χ^2 /NDF: 2485.9/97

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -126.313+/-0.069 χ^2/NDF : 193627.5/22

Left Out: -138.008+/-0.045 χ^2/NDF : 565767.2/24

Right Out: -117.490+/-0.063 χ^2/NDF : 430009.7/26

Left In: -143.735+/-0.046 χ^2/NDF : 258408.3/22

Left: -140.811+/-0.032 χ^2/NDF : 832055.2/47

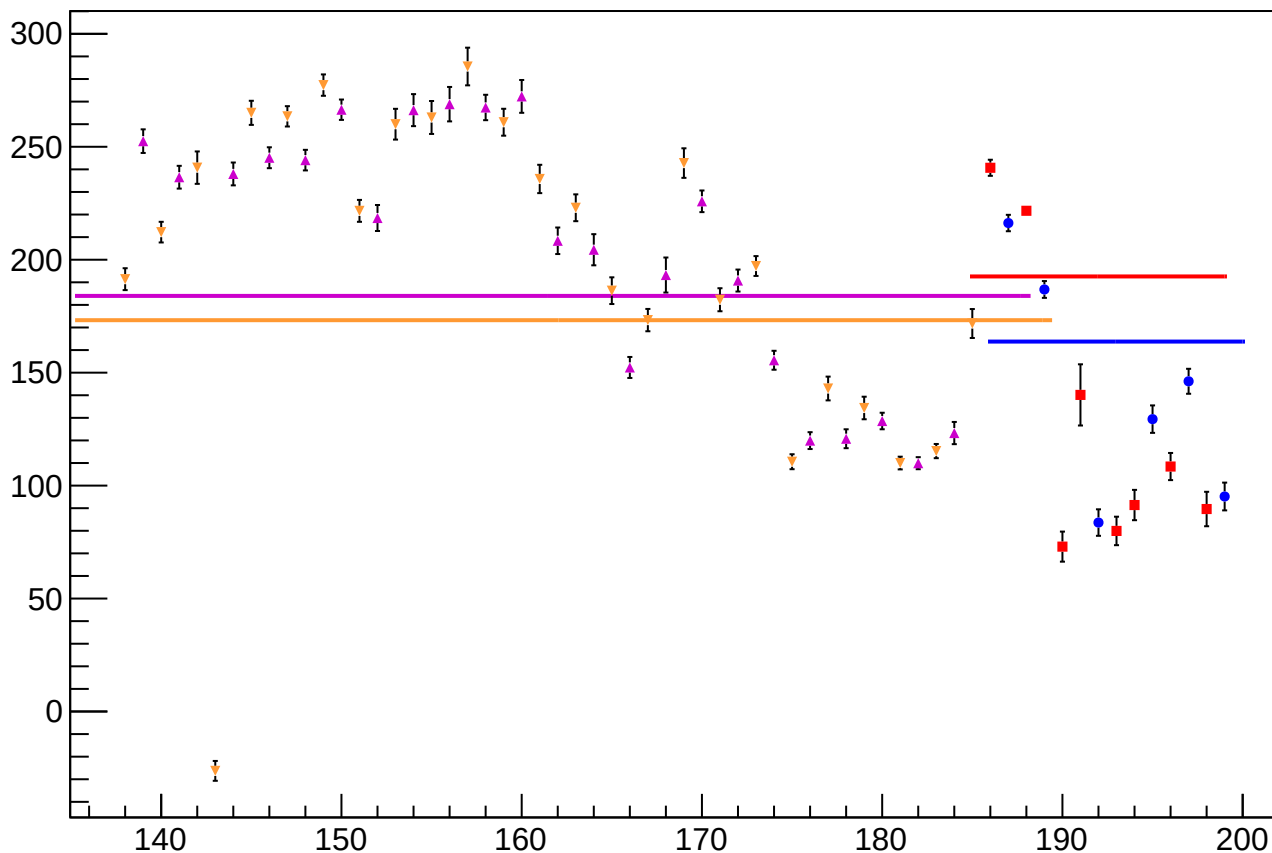
Right: -121.532+/-0.046 χ^2/NDF : 632585.2/49

In: -138.322+/-0.038 χ^2/NDF : 496415.6/45

Out: -131.070+/-0.037 χ^2/NDF : 1065680.4/51

All: -134.545+/-0.026 χ^2/NDF : 1580793.0/97

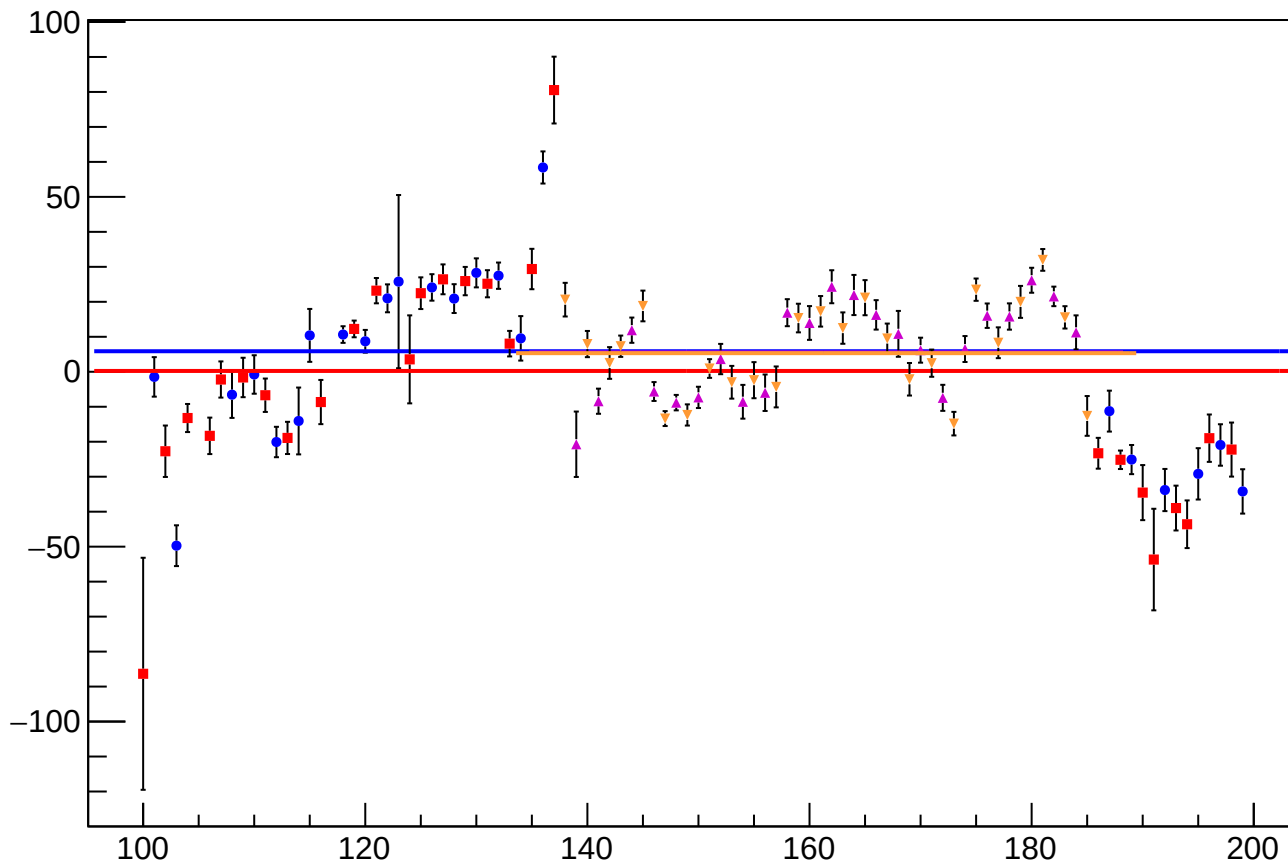
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 163.765 ± 1.948 $\chi^2/\text{NDF}: 600.3/5$
 Left Out: 173.229 ± 0.966 $\chi^2/\text{NDF}: 5846.0/24$
 Right Out: 192.597 ± 1.433 $\chi^2/\text{NDF}: 1688.8/7$
 Left In: 183.984 ± 0.991 $\chi^2/\text{NDF}: 3613.7/22$

Left: 178.467 ± 0.692 $\chi^2/\text{NDF}: 9520.1/47$
 Right: 182.478 ± 1.154 $\chi^2/\text{NDF}: 2431.2/13$
 In: 179.829 ± 0.883 $\chi^2/\text{NDF}: 4299.5/28$
 Out: 179.278 ± 0.801 $\chi^2/\text{NDF}: 7660.4/32$
 All: 179.527 ± 0.593 $\chi^2/\text{NDF}: 11960.1/61$

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: 0.235+/-0.909 χ^2/NDF : 621.5/26

Left In: 5.527+/-0.781 χ^2/NDF :256.3/22

Left: 5.420+/-0.540 χ^2/NDF : 601.9/47

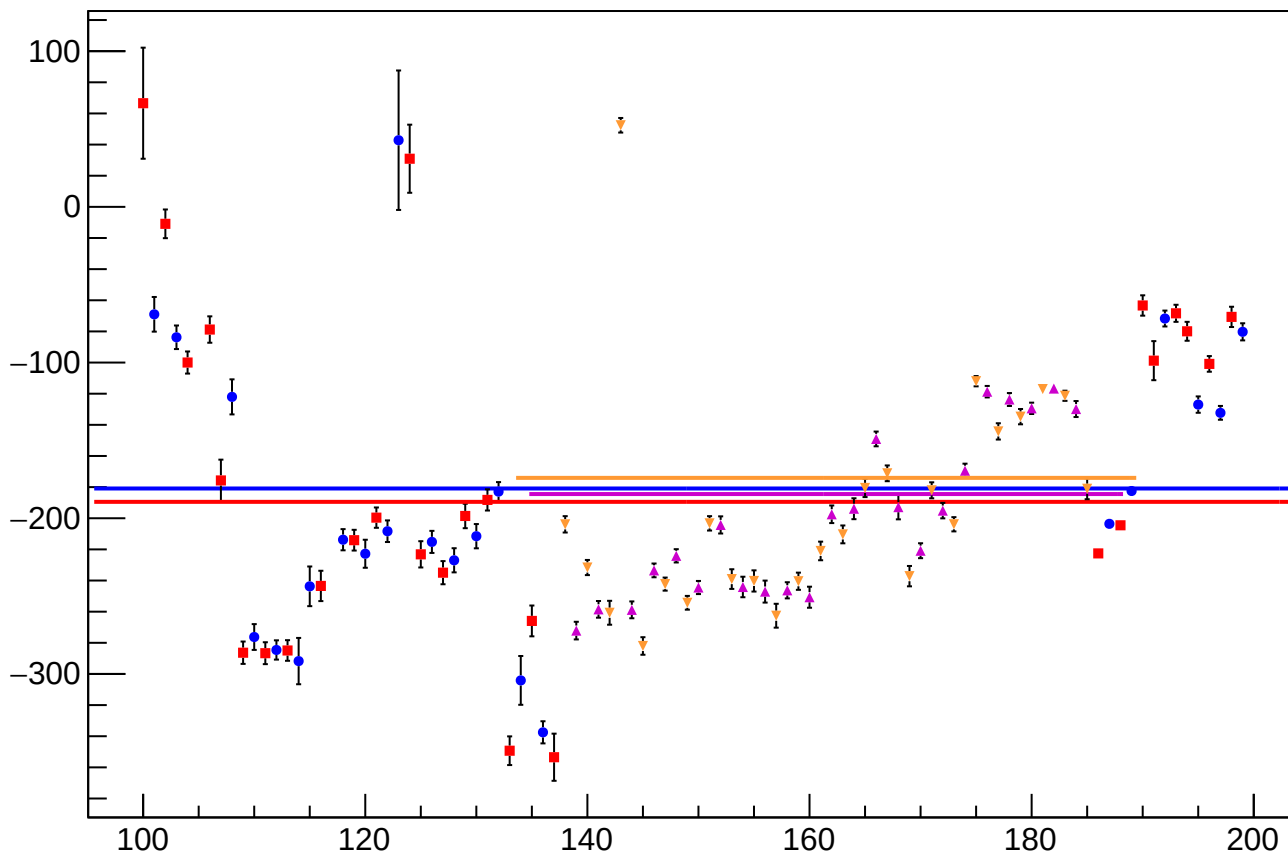
Right: 2.854+/-0.665 χ^2/NDF : 1217.3/49

In: 5.661+/-0.610 χ^2/NDF :834.3/45

Out: 3.271+/-0.577 χ^2/NDF :985.7/51

All: 4.401+/-0.419 χ^2/NDF : 1828.1/97

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -180.883 ± 1.272 χ^2/NDF : 2569.3/22

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -189.460 ± 1.004 χ^2/NDF : 4136.9/26

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

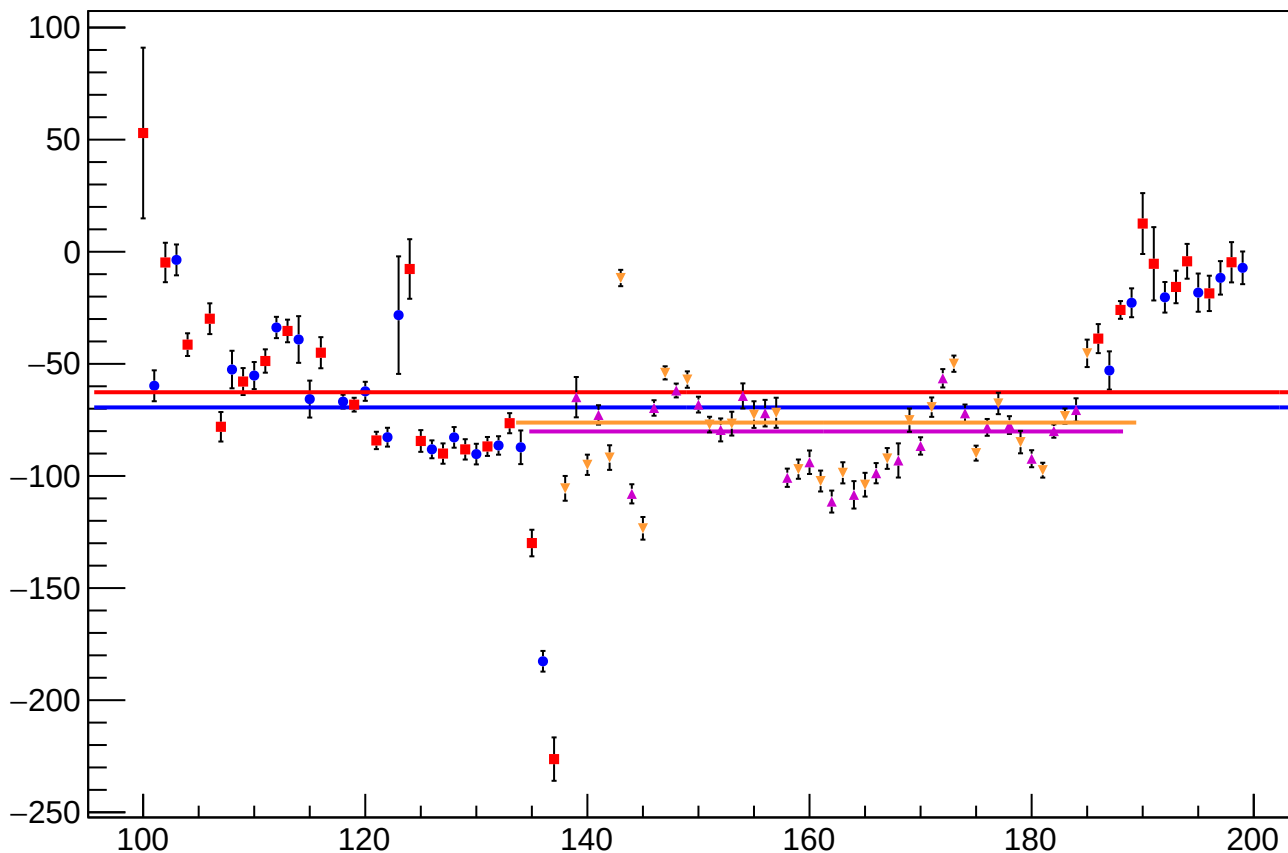
Right: -186.167 ± 0.788 χ^2/NDF : 6734.2/49

In: -183.108 ± 0.782 χ^2/NDF : 5625.7/45

Out: -181.499 ± 0.698 χ^2/NDF : 9701.7/51

All: -182.213 ± 0.521 χ^2/NDF : 15329.8/97

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -69.421 ± 1.146 χ^2/NDF : 1136.9/22

Left Out: -76.182 ± 0.857 χ^2/NDF : 801.0/24

Right Out: -62.654 ± 1.087 χ^2/NDF : 1052.6/26

Left In: -80.149 ± 0.889 χ^2/NDF : 283.3/22

Left: -78.094 ± 0.617 χ^2/NDF : 1094.6/47

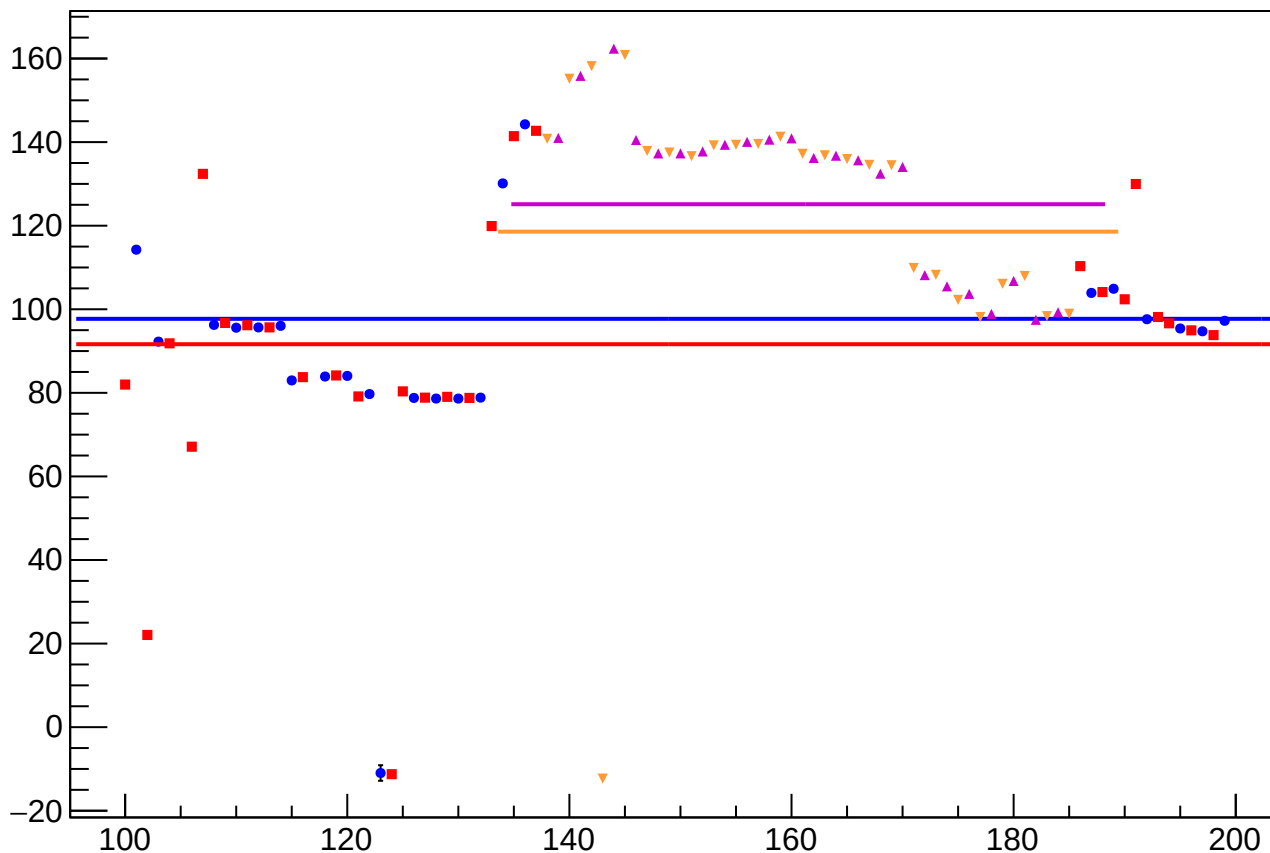
Right: -65.859 ± 0.789 χ^2/NDF : 2207.8/49

In: -76.120 ± 0.702 χ^2/NDF : 1474.9/45

Out: -70.997 ± 0.673 χ^2/NDF : 1949.0/51

All: -73.449 ± 0.486 χ^2/NDF : 3451.6/97

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 97.714+/-0.061 χ^2/NDF : 94847.2/22

Left Out: 118.569+/-0.040 χ^2/NDF : 728689.7/24

Right Out: 91.640+/-0.056 χ^2/NDF : 239813.4/26

Left In: 125.139+/-0.041 χ^2/NDF : 220927.1/22

Left: 121.790+/-0.029 χ^2/NDF : 962526.8/47

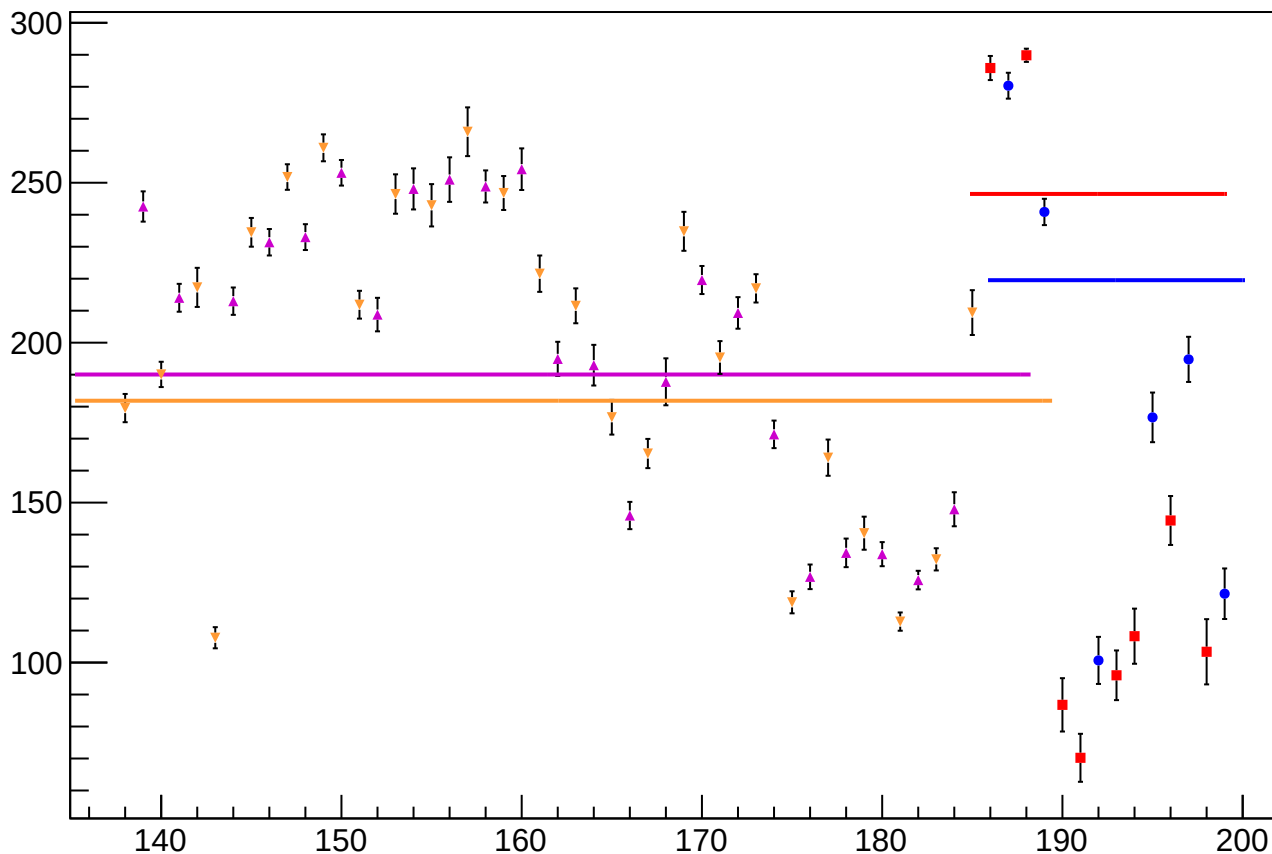
Right: 94.424+/-0.041 χ^2/NDF : 340109.7/49

In: 116.438+/-0.034 χ^2/NDF : 455798.1/45

Out: 109.260+/-0.033 χ^2/NDF : 1121392.4/51

All: 112.703+/-0.024 χ^2/NDF : 1600228.8/97

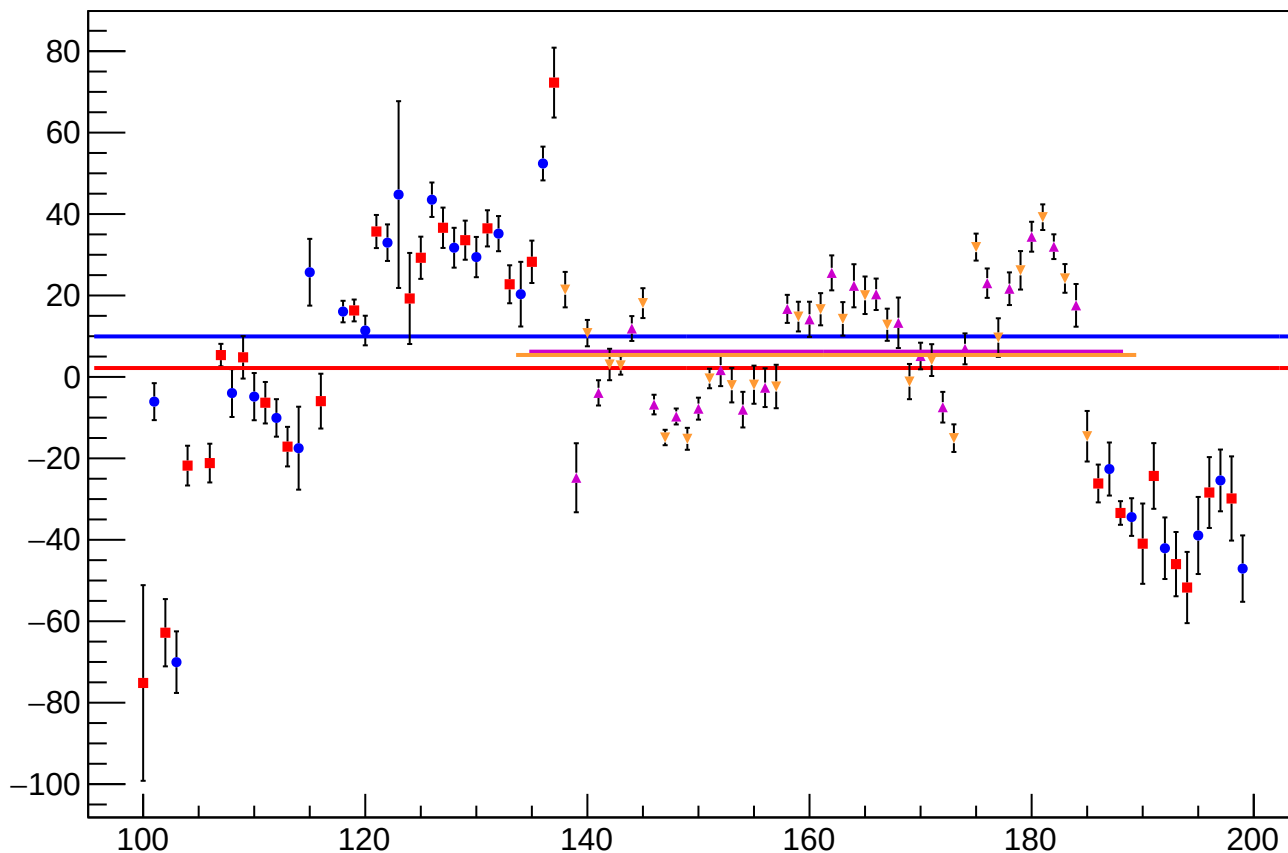
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



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: 246.498 ± 1.595 $\chi^2/\text{NDF}: 2476.0/7$
 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: 237.672 ± 1.308 $\chi^2/\text{NDF}: 3279.8/13$
 In: 194.411 ± 0.880 $\chi^2/\text{NDF}: 3290.3/28$
 Out: 197.819 ± 0.793 $\chi^2/\text{NDF}: 7016.9/32$
 All: 196.292 ± 0.589 $\chi^2/\text{NDF}: 10315.5/61$

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: 2.186 ± 0.957 χ^2/NDF : 844.0/26

Left In: 6.206 ± 0.732 χ^2/NDF : 407.5/22

Left: 5.775 ± 0.501 χ^2/NDF : 934.7/47

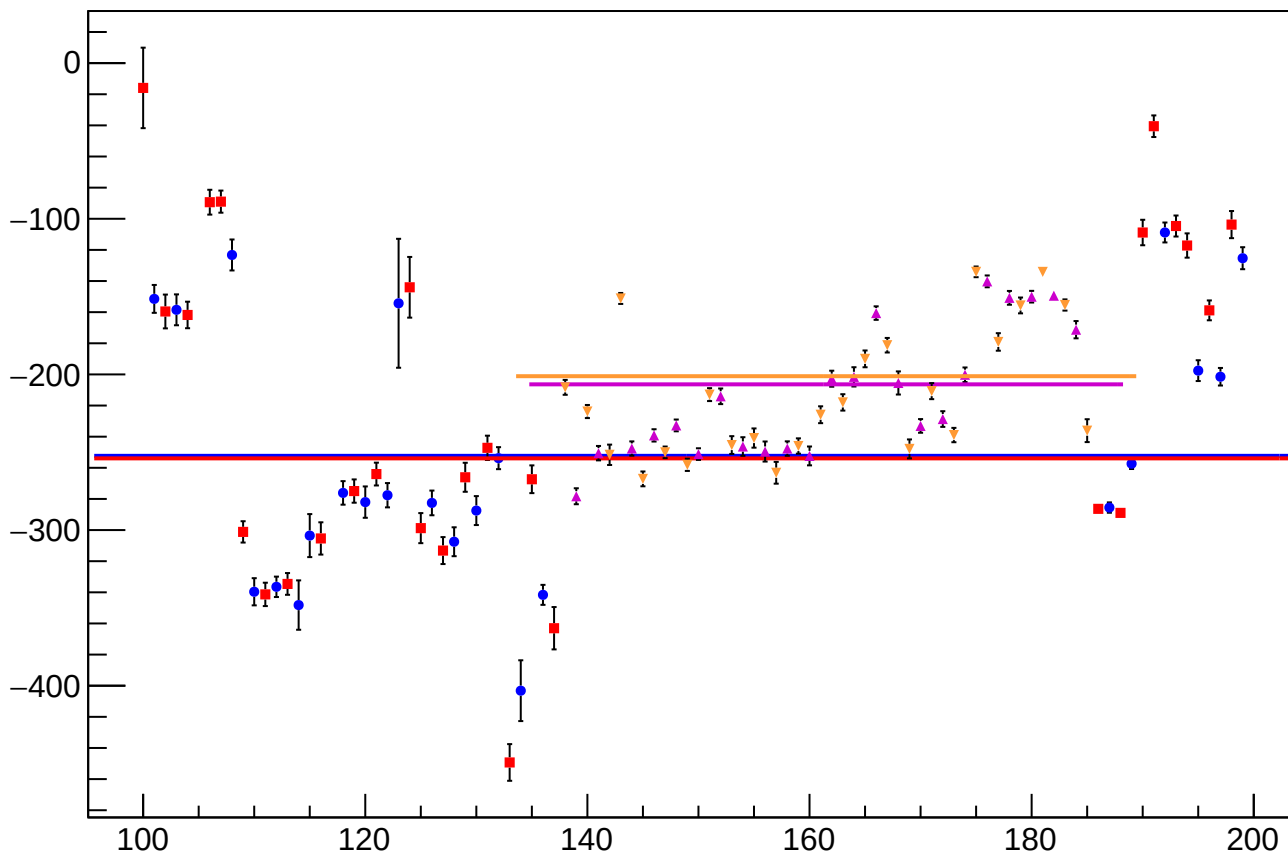
Right: 5.614 ± 0.715 χ^2/NDF : 1574.2/49

In: 7.389 ± 0.605 χ^2/NDF : 1116.9/45

Out: 4.300 ± 0.559 χ^2/NDF : 1378.0/51

All: 5.722 ± 0.410 χ^2/NDF : 2508.9/97

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -252.313 $\pm$ 1.439 χ^2 /NDF: 2127.4/22

Left Out: -201.144 $\pm$ 0.918 χ^2 /NDF:2488.8/24

Right Out: -253.941 $\pm$ 1.098 χ^2 /NDF: 5171.3/26

Left In: -206.379 $\pm$ 0.950 χ^2 /NDF:2111.6/22

Left: -203.672 $\pm$ 0.660 χ^2 /NDF: 4616.1/47

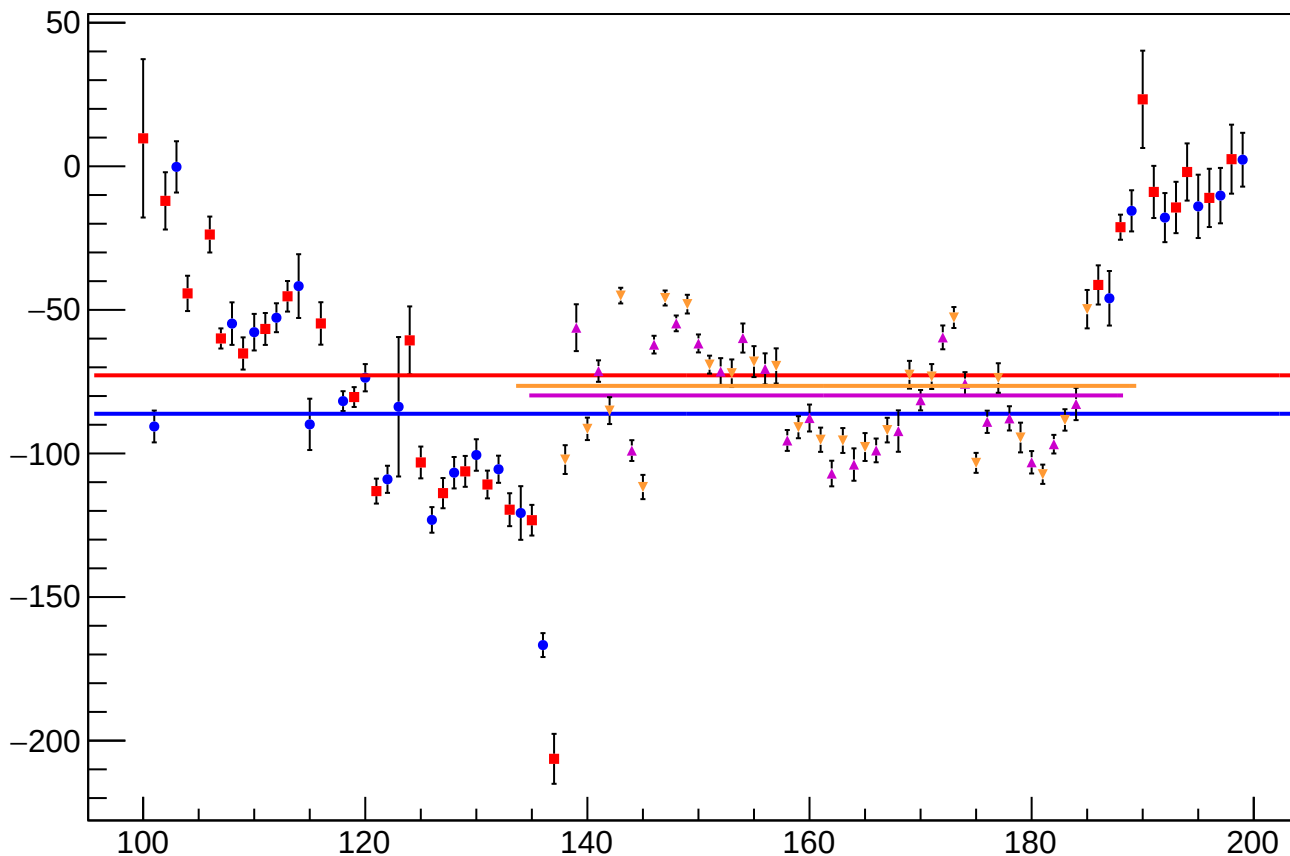
Right: -253.342 $\pm$ 0.873 χ^2 /NDF: 7299.5/49

In: -220.316 $\pm$ 0.793 χ^2 /NDF:4949.0/45

Out: -222.857 $\pm$ 0.704 χ^2 /NDF:9020.9/51

All: -221.736 $\pm$ 0.526 χ^2 /NDF: 13975.6/97

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: -72.790 ± 1.147 χ^2/NDF : 1272.4/26

Left In: -79.792 ± 0.840 χ^2/NDF : 412.3/22

Left: -78.038 ± 0.578 χ^2/NDF : 1201.9/47

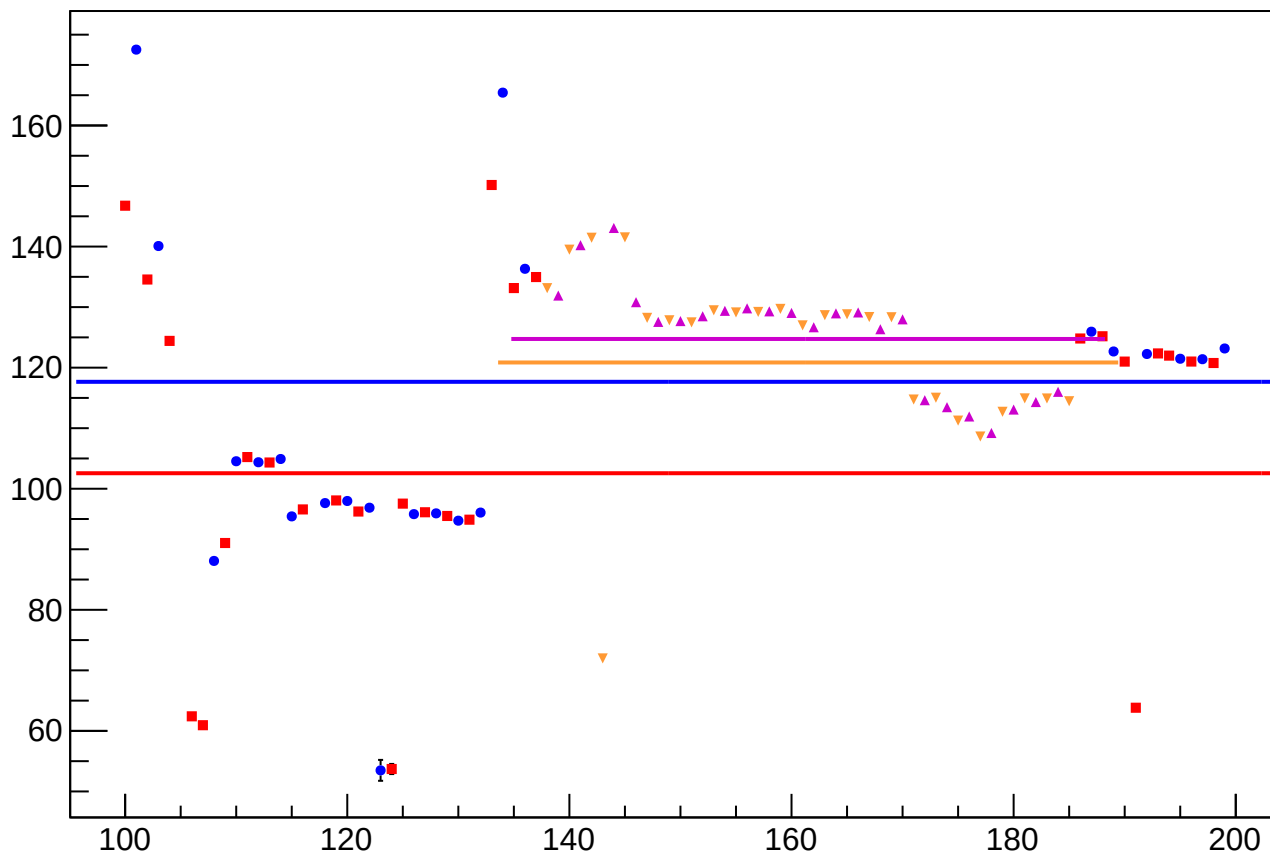
Right: -78.850 ± 0.849 χ^2/NDF : 2424.6/49

In: -81.753 ± 0.699 χ^2/NDF : 1520.6/45

Out: -75.266 ± 0.654 χ^2/NDF : 2060.6/51

All: -78.296 ± 0.478 χ^2/NDF : 3627.1/97

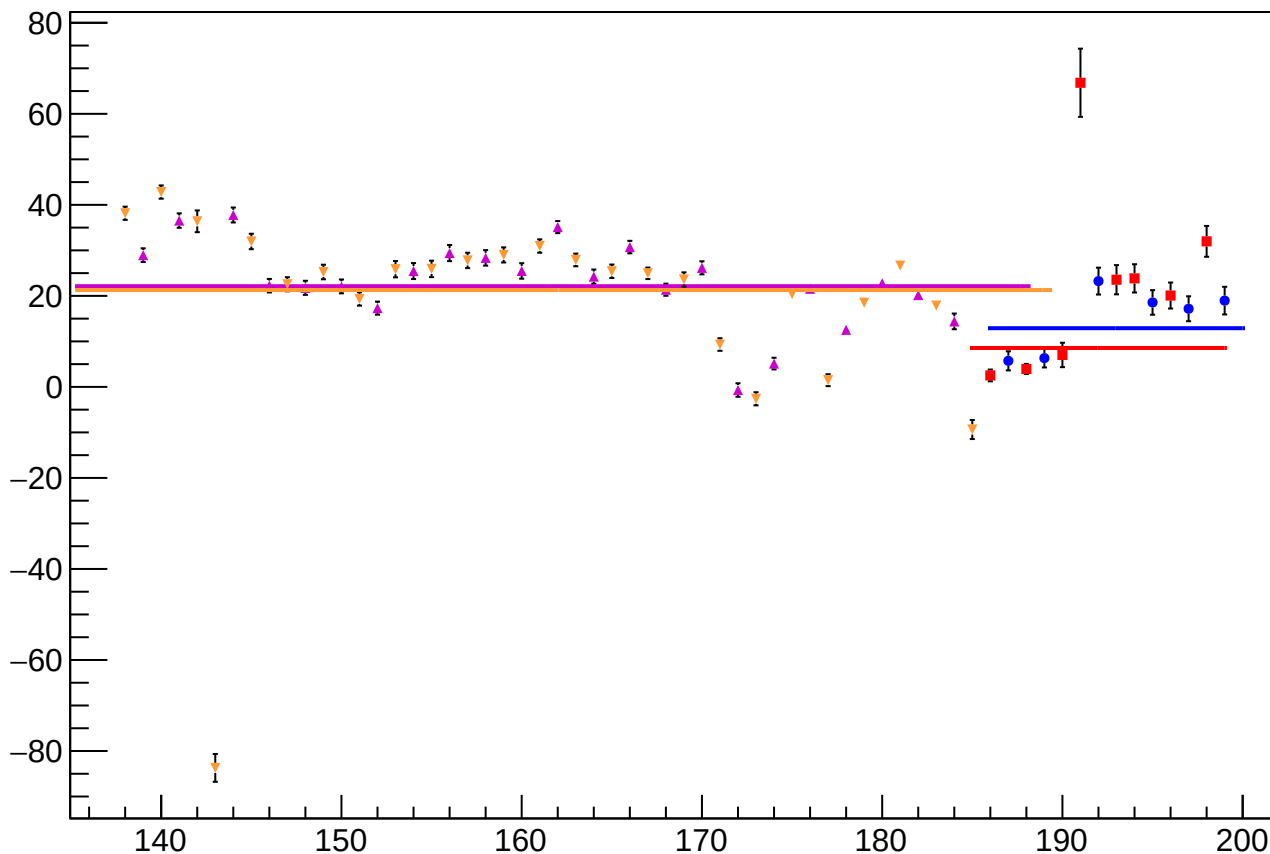
reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



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: 102.561 $\pm$ 0.058 χ^2 /NDF: 228069.1/26
 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: 108.962 $\pm$ 0.044 χ^2 /NDF: 364292.1/49
 In: 122.955 $\pm$ 0.034 χ^2 /NDF:167000.1/45
 Out: 115.352 $\pm$ 0.032 χ^2 /NDF:480341.7/51
 All: 118.908 $\pm$ 0.023 χ^2 /NDF: 674040.7/97

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.896 $\pm$ 1.022 χ^2 /NDF: 45.0/5

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 8.556 $\pm$ 0.713 χ^2 /NDF: 209.9/7

Left In: 22.127 $\pm$ 0.285 χ^2 /NDF:900.2/22

Left: 21.700 $\pm$ 0.201 χ^2 /NDF: 3505.2/47

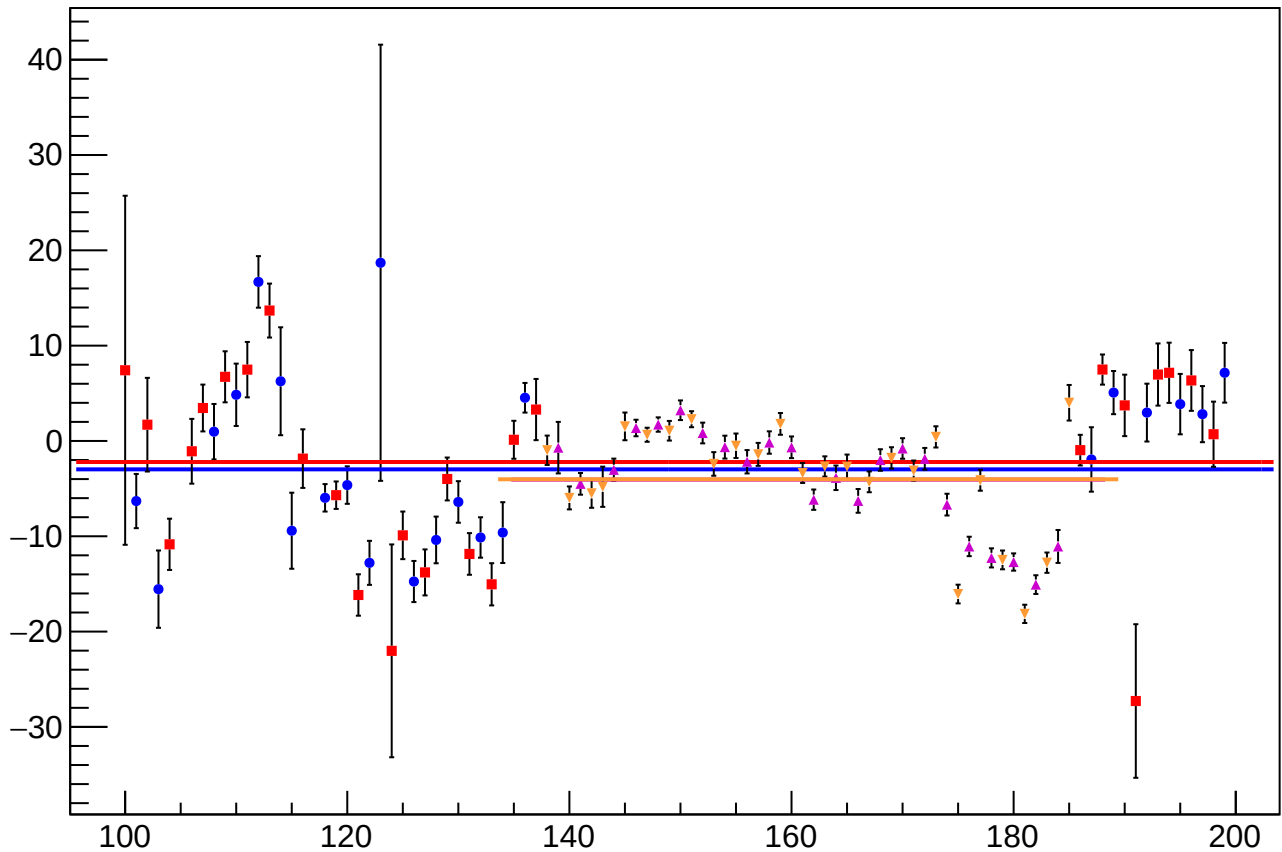
Right: 9.976 $\pm$ 0.584 χ^2 /NDF: 267.0/13

In: 21.458 $\pm$ 0.275 χ^2 /NDF:1021.0/28

Out: 19.554 $\pm$ 0.263 χ^2 /NDF:3086.1/32

All: 20.462 $\pm$ 0.190 χ^2 /NDF: 4132.2/61

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: -2.208 ± 0.488 $\chi^2/\text{NDF}: 287.2/26$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

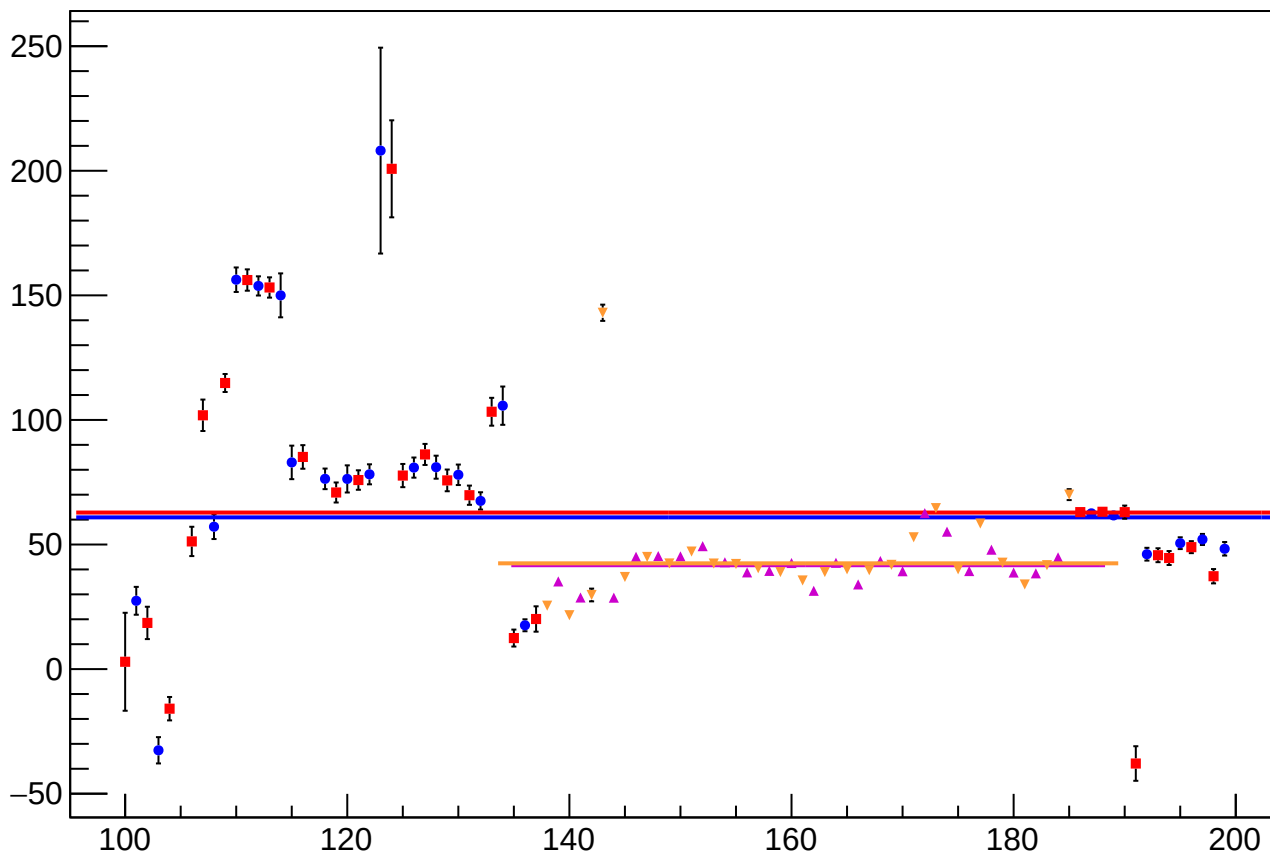
Right: -2.564 ± 0.358 $\chi^2/\text{NDF}: 505.0/49$

In: -3.889 ± 0.209 $\chi^2/\text{NDF}: 797.4/45$

Out: -3.708 ± 0.203 $\chi^2/\text{NDF}: 1032.8/51$

All: -3.796 ± 0.146 $\chi^2/\text{NDF}: 1830.5/97$

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: 62.833+/-0.516 χ^2/NDF : 2437.9/26

Left In: 41.695+/-0.284 χ^2/NDF : 630.2/22

Left: 42.077+/-0.200 χ^2/NDF : 2649.8/47

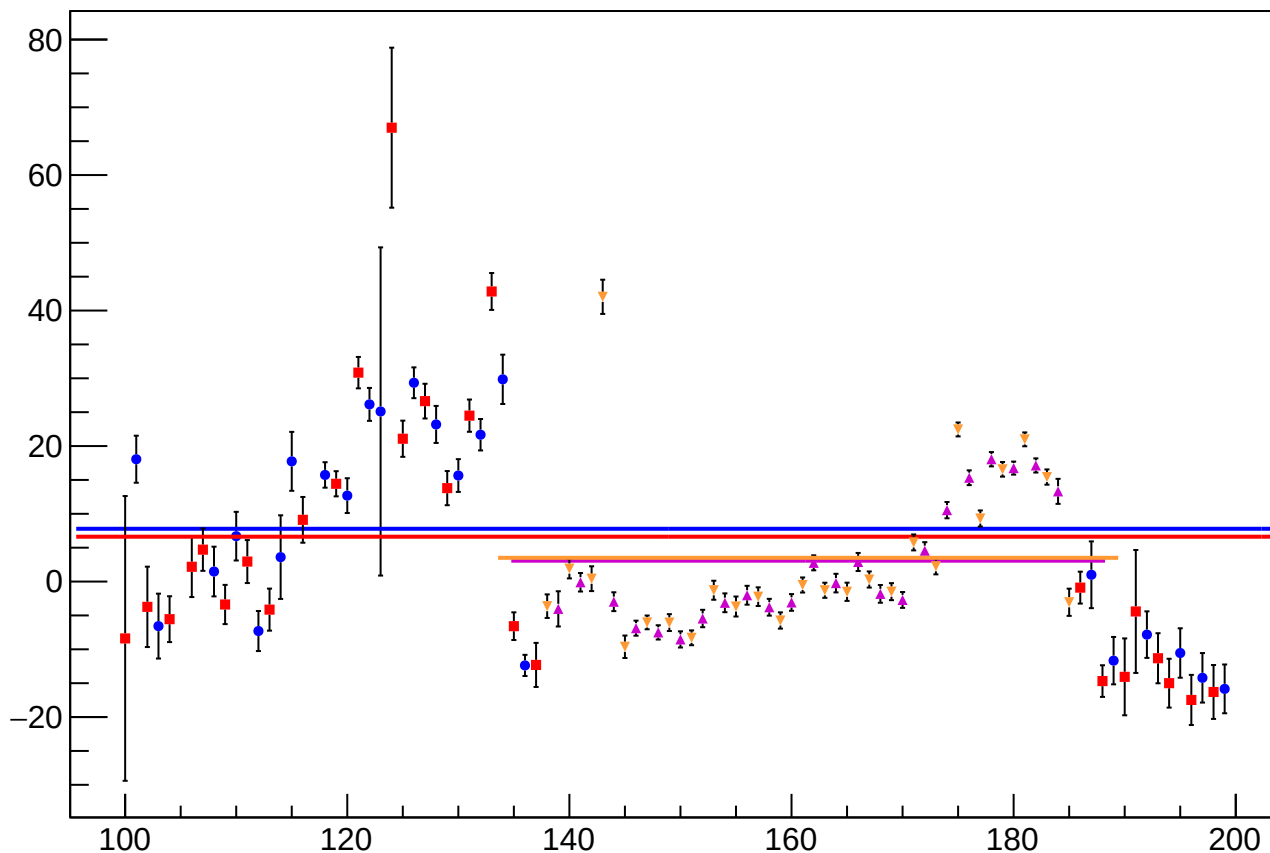
Right: 62.121+/-0.411 χ^2/NDF : 4432.6/49

In: 44.565+/-0.262 χ^2/NDF : 3302.4/45

Out: 47.132+/-0.247 χ^2/NDF : 5653.9/51

All: 45.922+/-0.180 χ^2/NDF : 9007.0/97

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.791 $\pm$ 0.611 χ^2 /NDF: 661.2/22

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 6.621 $\pm$ 0.582 χ^2 /NDF: 847.4/26

Left In: 3.081 $\pm$ 0.257 χ^2 /NDF:1265.7/22

Left: 3.297 $\pm$ 0.180 χ^2 /NDF: 2958.4/47

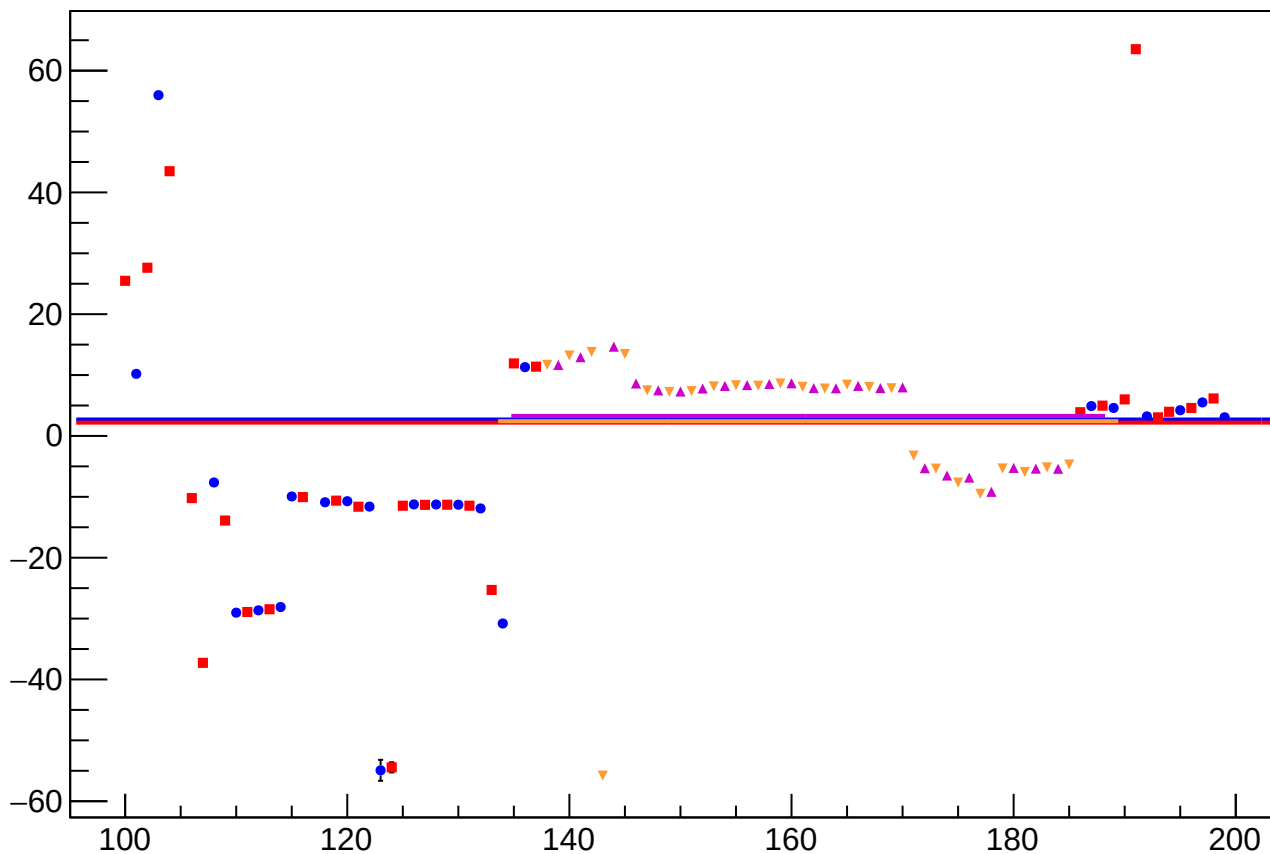
Right: 7.178 $\pm$ 0.421 χ^2 /NDF: 1510.6/49

In: 3.790 $\pm$ 0.237 χ^2 /NDF:1977.5/45

Out: 3.998 $\pm$ 0.232 χ^2 /NDF:2562.9/51

All: 3.897 $\pm$ 0.166 χ^2 /NDF: 4540.8/97

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: 2.187 $\pm$ 0.029 χ^2 /NDF: 430715.9/26

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

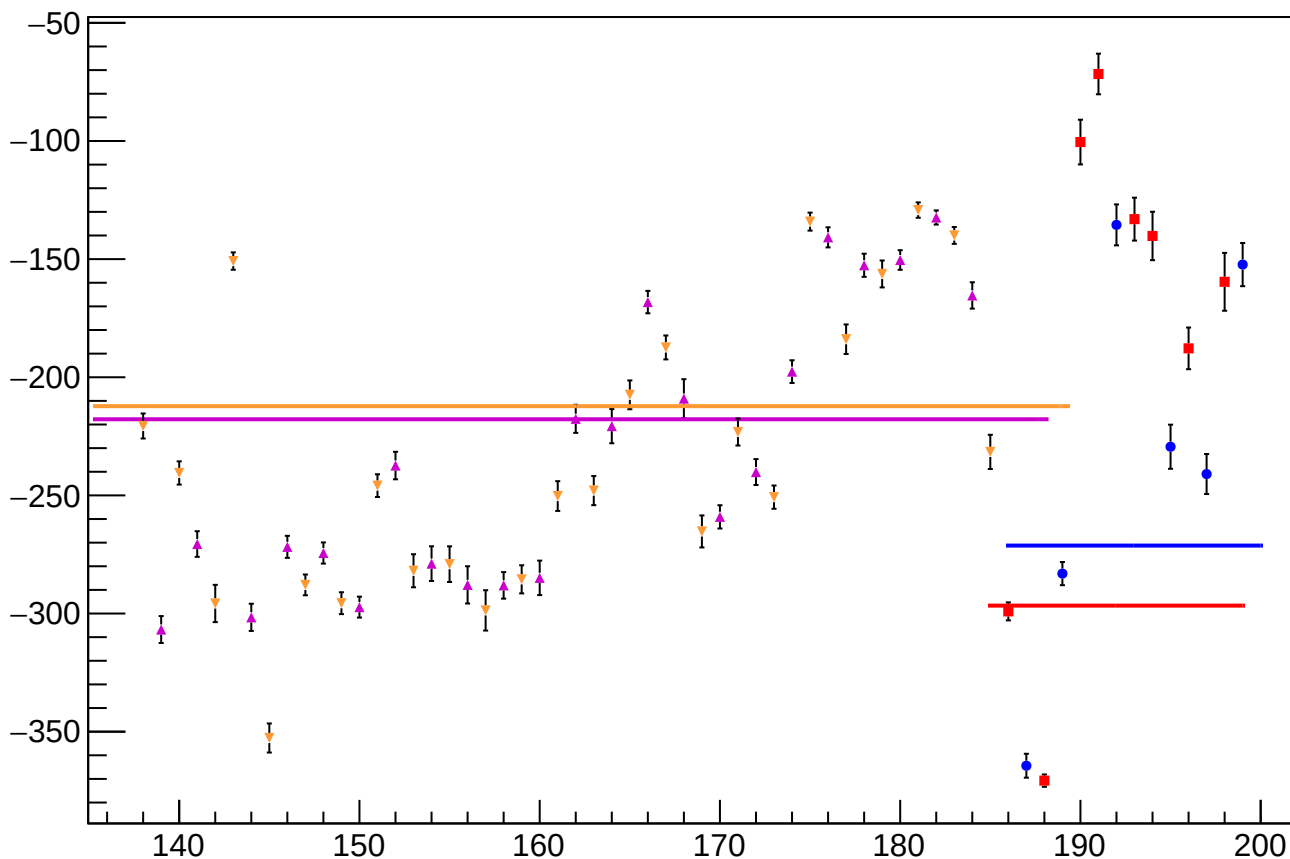
Right: 2.434 $\pm$ 0.021 χ^2 /NDF: 790068.0/49

In: 3.215 $\pm$ 0.011 χ^2 /NDF: 763862.1/45

Out: 2.392 $\pm$ 0.011 χ^2 /NDF: 1047156.9/51

All: 2.799 $\pm$ 0.008 χ^2 /NDF: 1813919.9/97

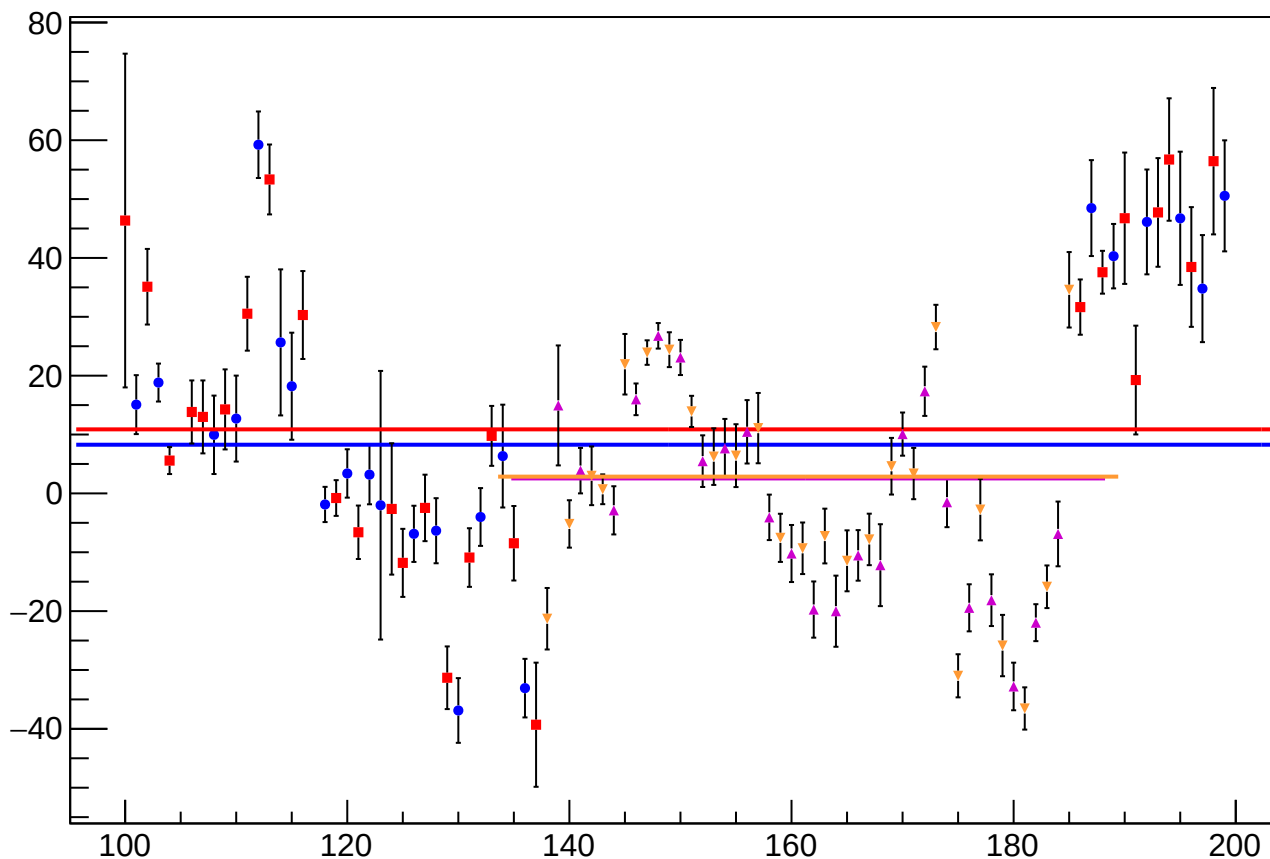
reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



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: -296.653 ± 1.885 $\chi^2/\text{NDF}: 2754.8/7$
 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: -288.562 ± 1.557 $\chi^2/\text{NDF}: 3604.6/13$
 In: -224.732 ± 0.995 $\chi^2/\text{NDF}: 4567.5/28$
 Out: -231.617 ± 0.904 $\chi^2/\text{NDF}: 8174.6/32$
 All: -228.505 ± 0.669 $\chi^2/\text{NDF}: 12768.4/61$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.269 $\pm$ 1.165 χ^2 /NDF: 388.3/22

Left Out: 2.848 $\pm$ 0.775 χ^2 /NDF:582.1/24

Right Out: 10.878 $\pm$ 1.041 χ^2 /NDF: 396.3/26

Left In: 2.540 $\pm$ 0.822 χ^2 /NDF:473.6/22

Left: 2.703 $\pm$ 0.564 χ^2 /NDF: 1055.8/47

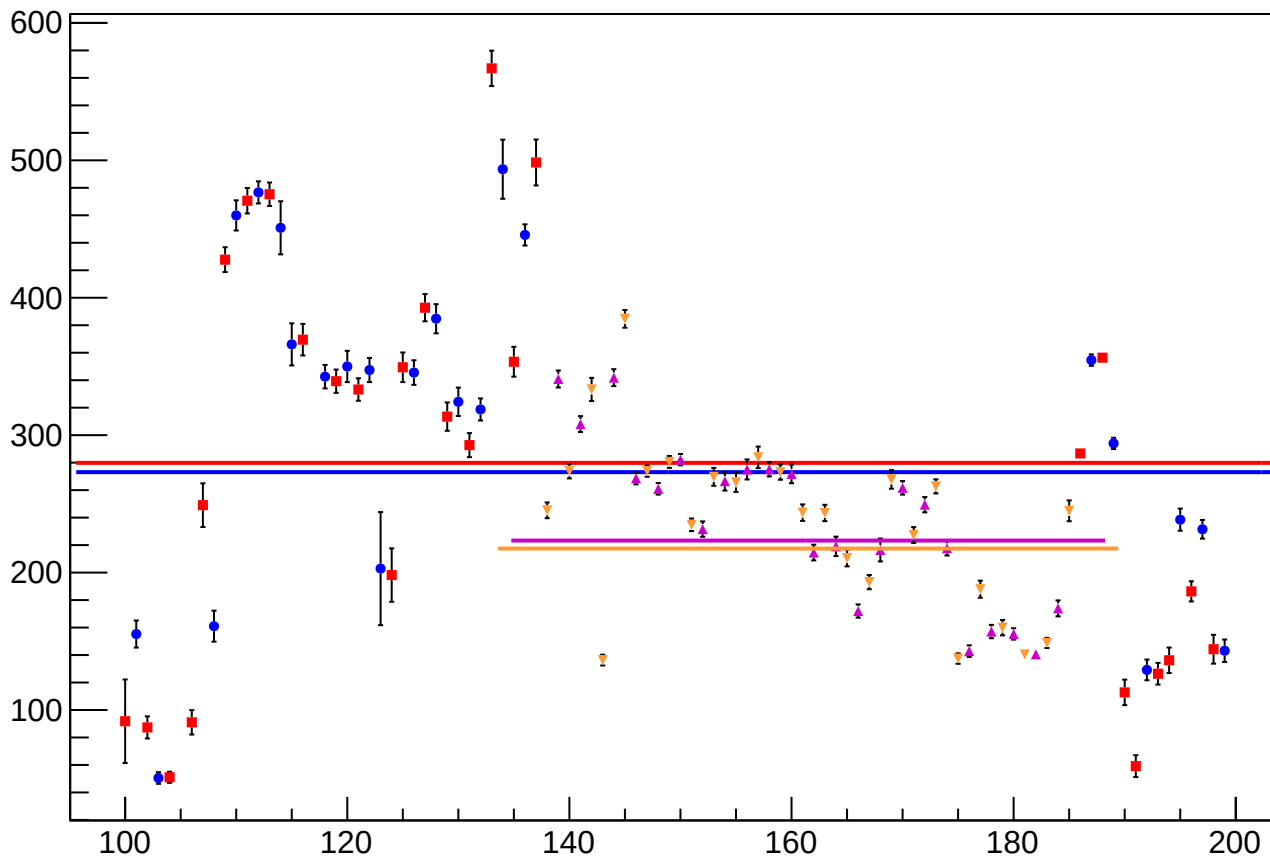
Right: 9.720 $\pm$ 0.776 χ^2 /NDF: 787.4/49

In: 4.445 $\pm$ 0.672 χ^2 /NDF:878.0/45

Out: 5.710 $\pm$ 0.621 χ^2 /NDF:1016.7/51

All: 5.127 $\pm$ 0.456 χ^2 /NDF: 1896.7/97

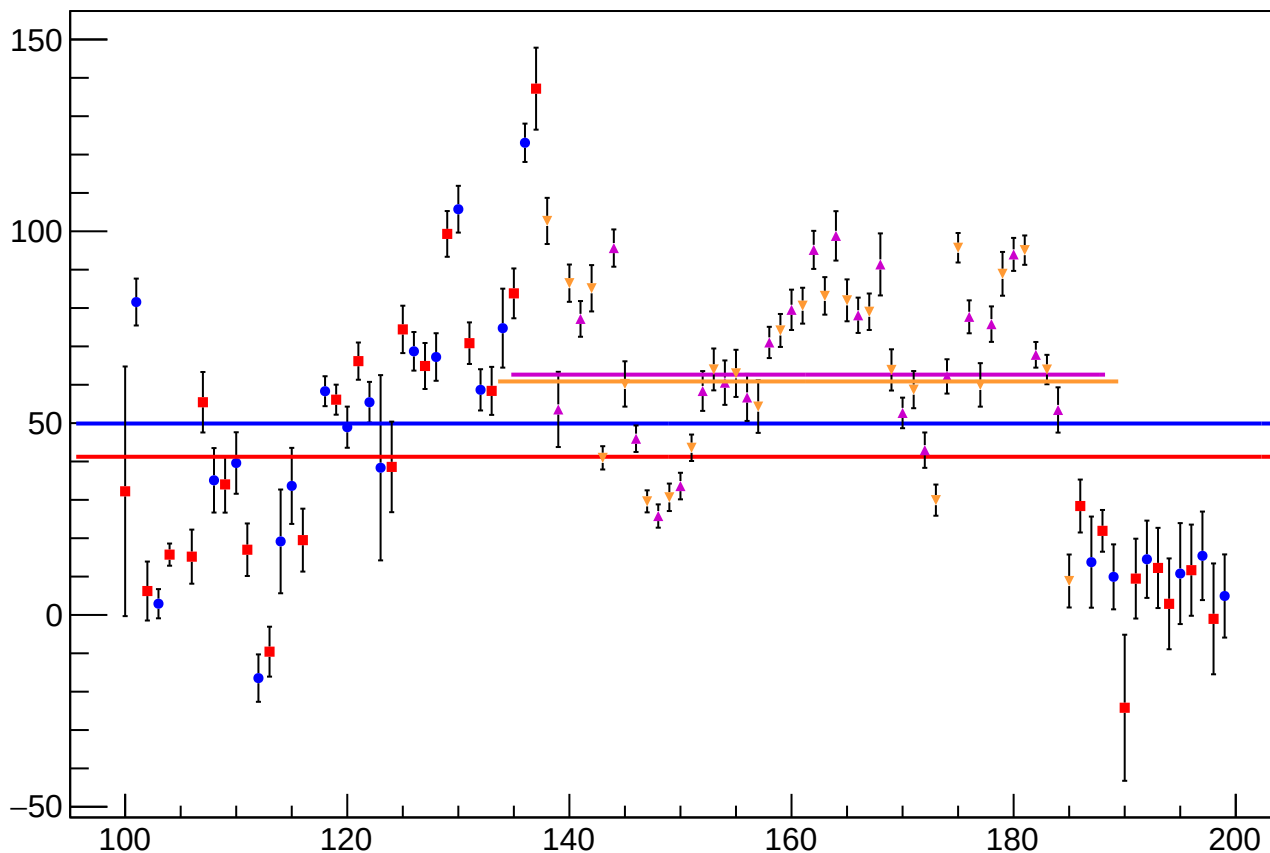
reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 273.089 ± 1.598 $\chi^2/\text{NDF}: 6175.1/22$
 Left Out: 217.484 ± 1.032 $\chi^2/\text{NDF}: 3769.5/24$
 Right Out: 279.857 ± 1.242 $\chi^2/\text{NDF}: 9940.5/26$
 Left In: 223.309 ± 1.062 $\chi^2/\text{NDF}: 3378.0/22$

Left: 220.314 ± 0.740 $\chi^2/\text{NDF}: 7163.0/47$
 Right: 277.308 ± 0.981 $\chi^2/\text{NDF}: 16126.8/49$
 In: 238.563 ± 0.884 $\chi^2/\text{NDF}: 10226.5/45$
 Out: 242.968 ± 0.794 $\chi^2/\text{NDF}: 15201.5/51$
 All: 241.002 ± 0.591 $\chi^2/\text{NDF}: 25441.7/97$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 49.897 $\pm$ 1.368 χ^2 /NDF: 720.7/22

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF:731.6/24

Right Out: 41.232 $\pm$ 1.254 χ^2 /NDF: 608.5/26

Left In: 62.640 $\pm$ 0.943 χ^2 /NDF:515.4/22

Left: 61.707 $\pm$ 0.650 χ^2 /NDF: 1248.9/47

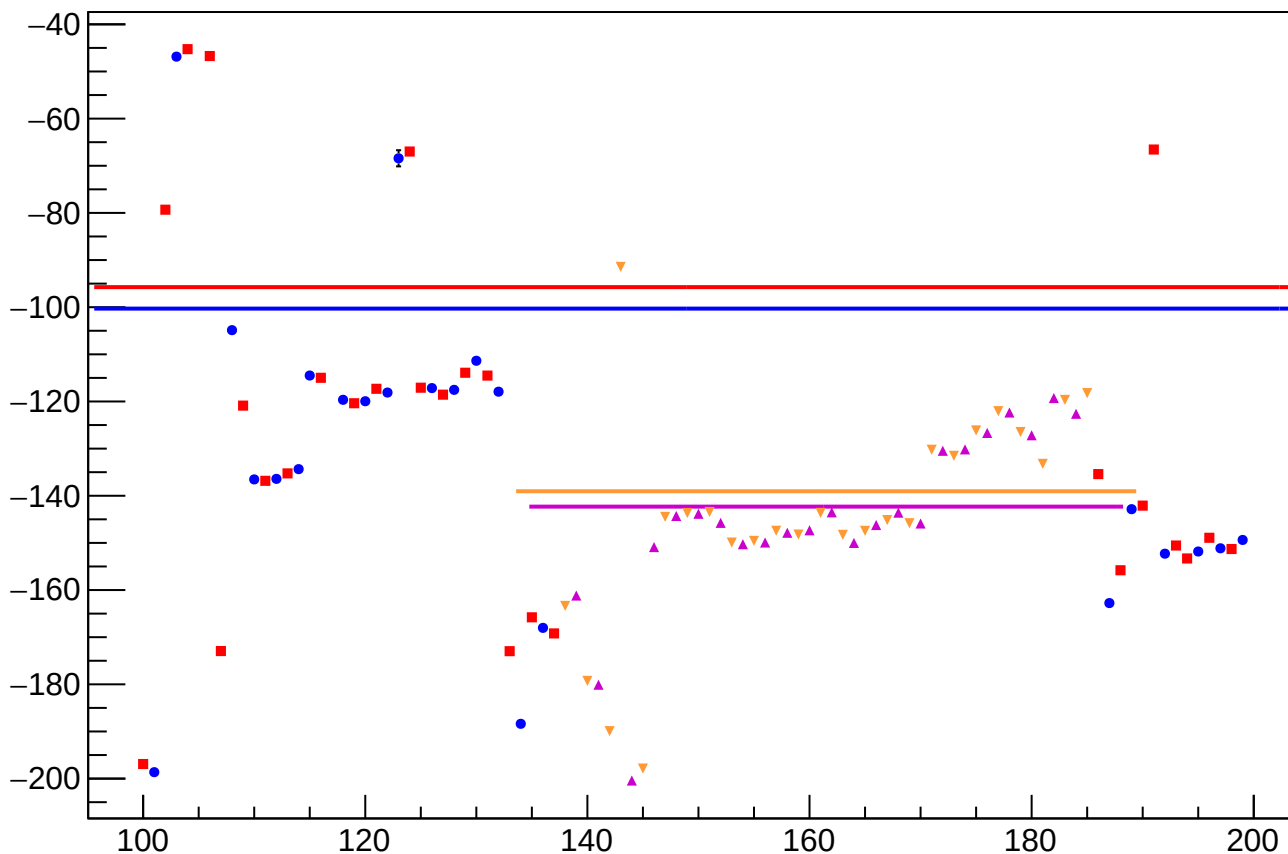
Right: 45.188 $\pm$ 0.924 χ^2 /NDF: 1351.0/49

In: 58.536 $\pm$ 0.776 χ^2 /NDF:1294.9/45

Out: 54.219 $\pm$ 0.729 χ^2 /NDF:1502.4/51

All: 56.243 $\pm$ 0.532 χ^2 /NDF: 2813.7/97

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: -95.743+/-0.058 χ^2/NDF : 679369.6/26

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

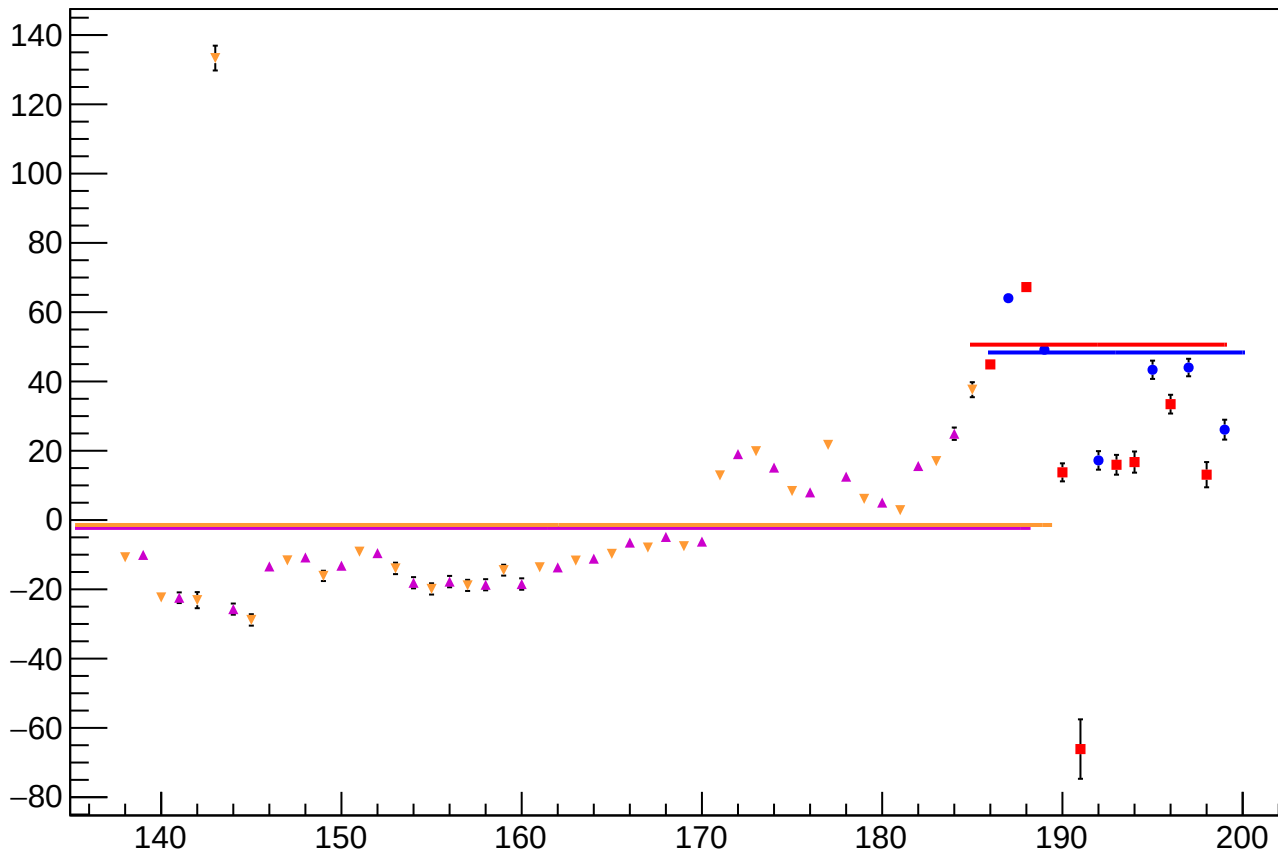
Right: -97.859+/-0.042 χ^2/NDF : 1338782.9/49

In: -128.259+/-0.036 χ^2/NDF : 1103589.4/45

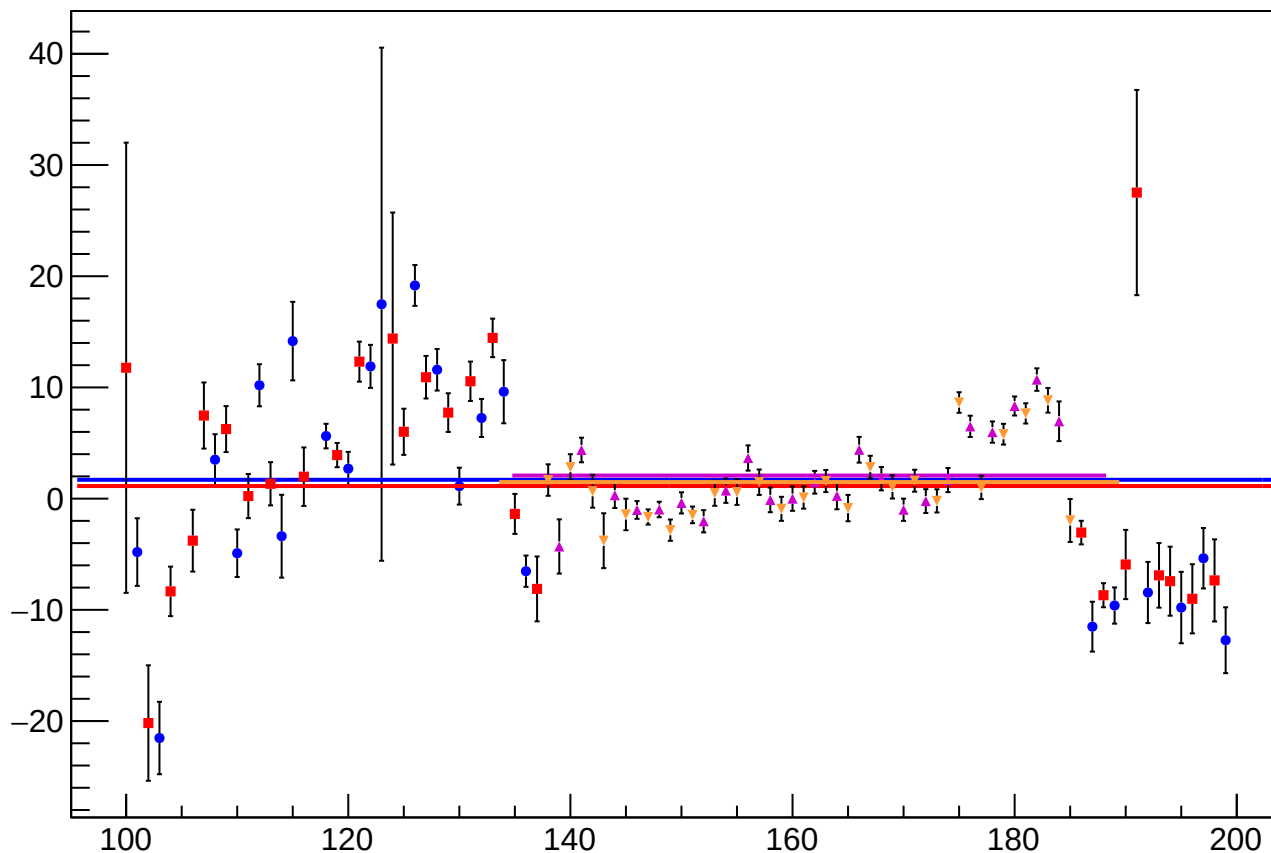
Out: -123.716+/-0.034 χ^2/NDF : 1298515.3/51

All: -125.890+/-0.025 χ^2/NDF : 2410425.7/97

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



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: 1.132 $\pm$ 0.386 χ^2 /NDF: 383.6/26

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

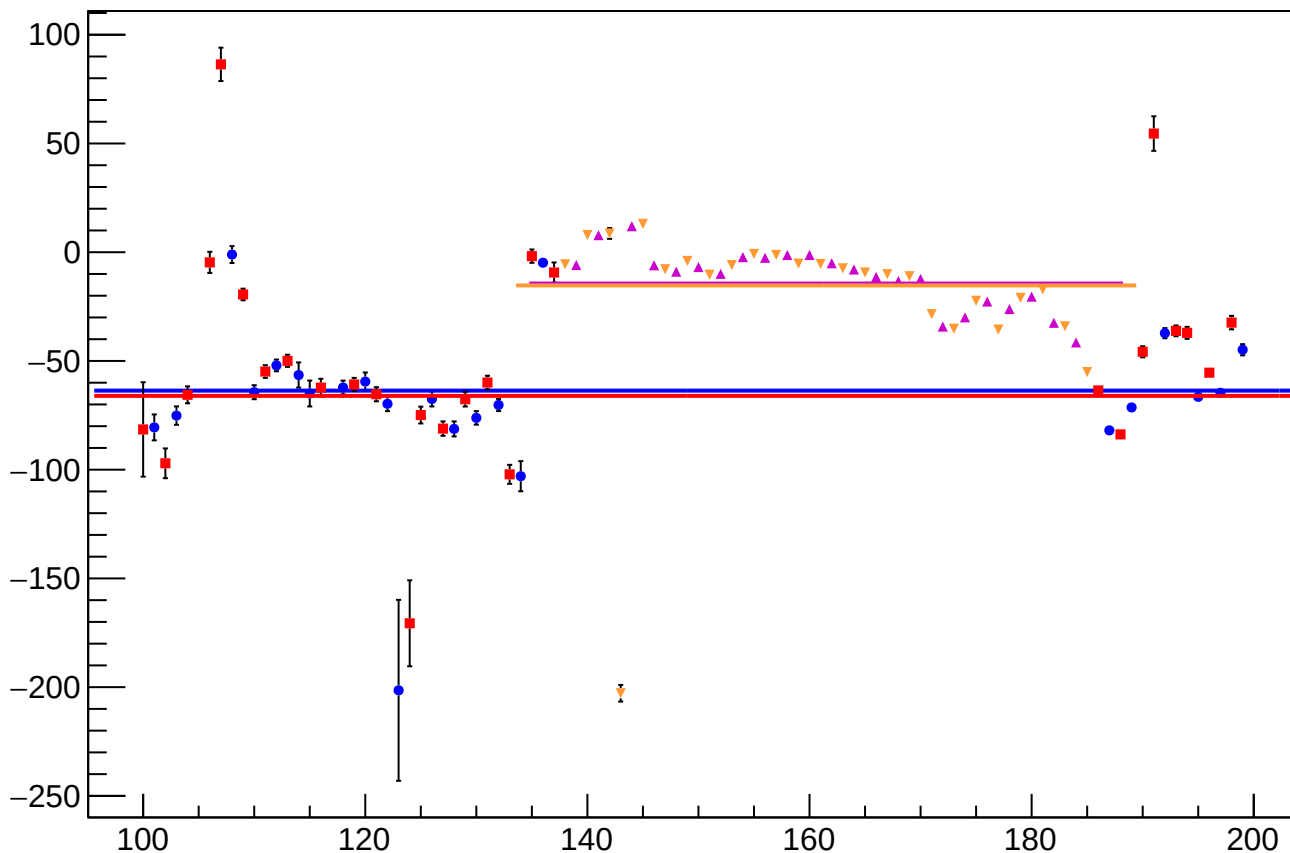
Right: 1.387 $\pm$ 0.286 χ^2 /NDF: 836.9/49

In: 1.997 $\pm$ 0.192 χ^2 /NDF:727.5/45

Out: 1.409 $\pm$ 0.185 χ^2 /NDF:643.3/51

All: 1.691 $\pm$ 0.133 χ^2 /NDF: 1375.7/97

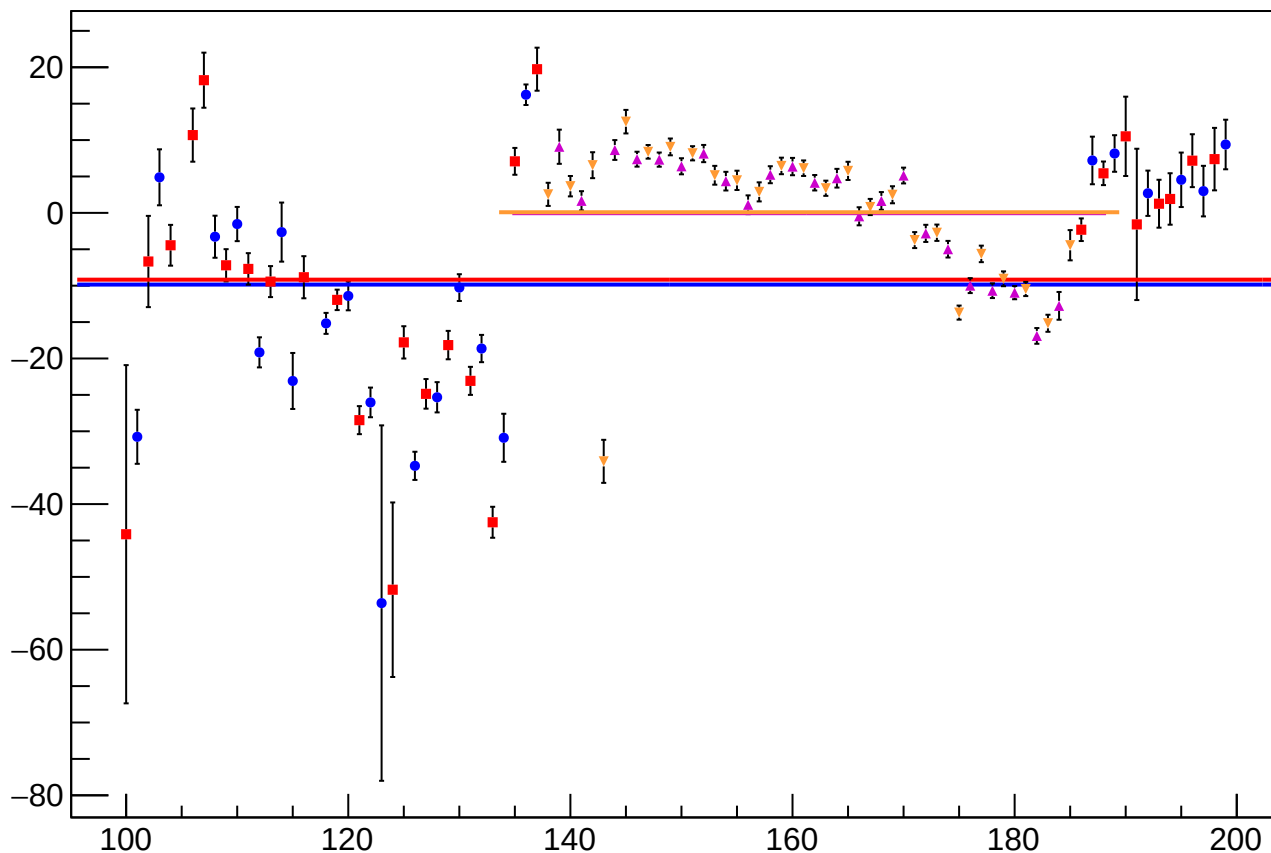
reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.647 ± 0.532 $\chi^2/\text{NDF}: 1608.2/22$
 Left Out: -15.279 ± 0.267 $\chi^2/\text{NDF}: 4820.1/24$
 Right Out: -66.053 ± 0.384 $\chi^2/\text{NDF}: 3157.1/26$
 Left In: -14.406 ± 0.269 $\chi^2/\text{NDF}: 2032.4/22$

Left: -14.846 ± 0.189 $\chi^2/\text{NDF}: 6857.8/47$
 Right: -65.229 ± 0.311 $\chi^2/\text{NDF}: 4778.8/49$
 In: -24.449 ± 0.240 $\chi^2/\text{NDF}: 10469.5/45$
 Out: -31.818 ± 0.219 $\chi^2/\text{NDF}: 19774.6/51$
 All: -28.470 ± 0.162 $\chi^2/\text{NDF}: 30758.0/97$

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: -9.174 ± 0.467 χ^2/NDF : 941.2/26

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

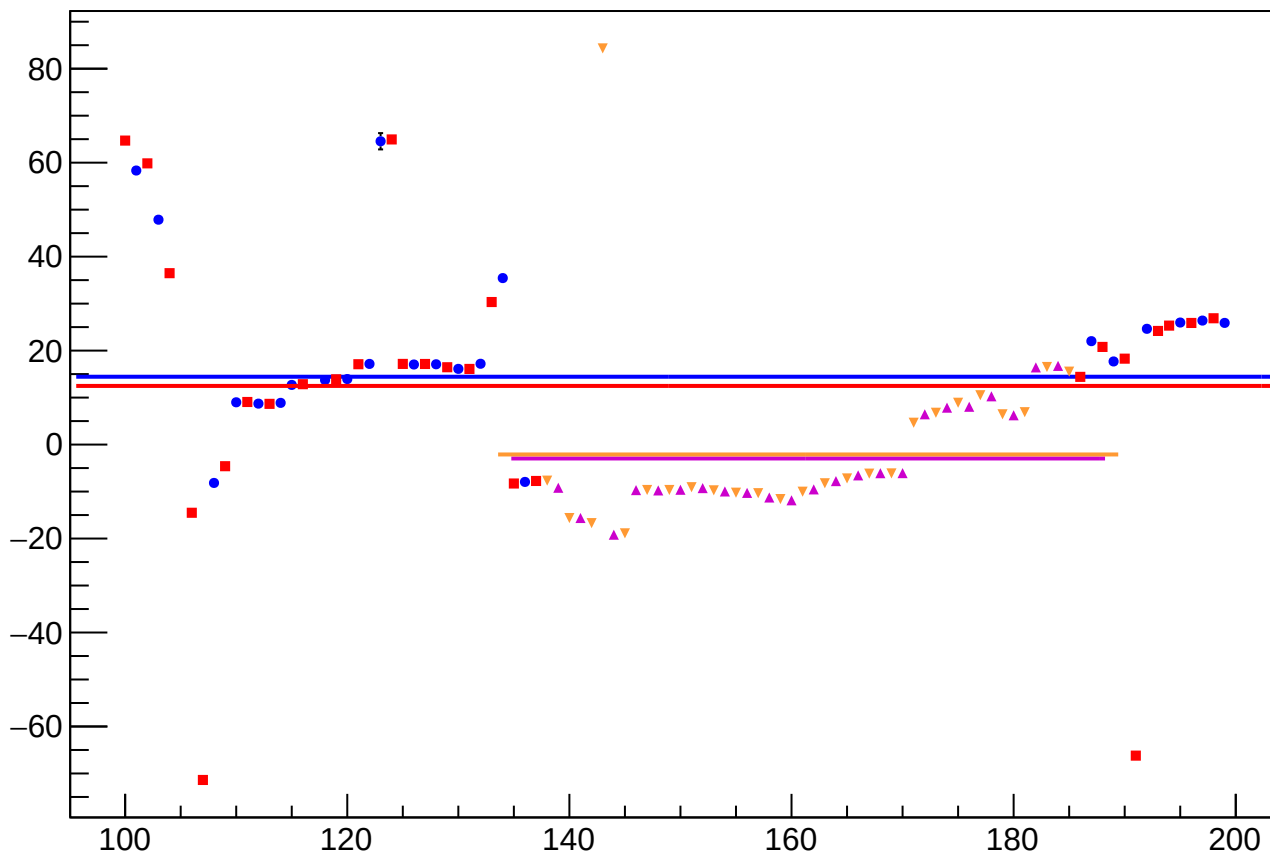
Right: -9.490 ± 0.340 χ^2/NDF : 1903.2/49

In: -1.939 ± 0.218 χ^2/NDF : 2303.6/45

Out: -1.827 ± 0.212 χ^2/NDF : 2425.7/51

All: -1.881 ± 0.152 χ^2/NDF : 4729.5/97

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: 12.483+/-0.025 χ^2/NDF : 709085.8/26

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

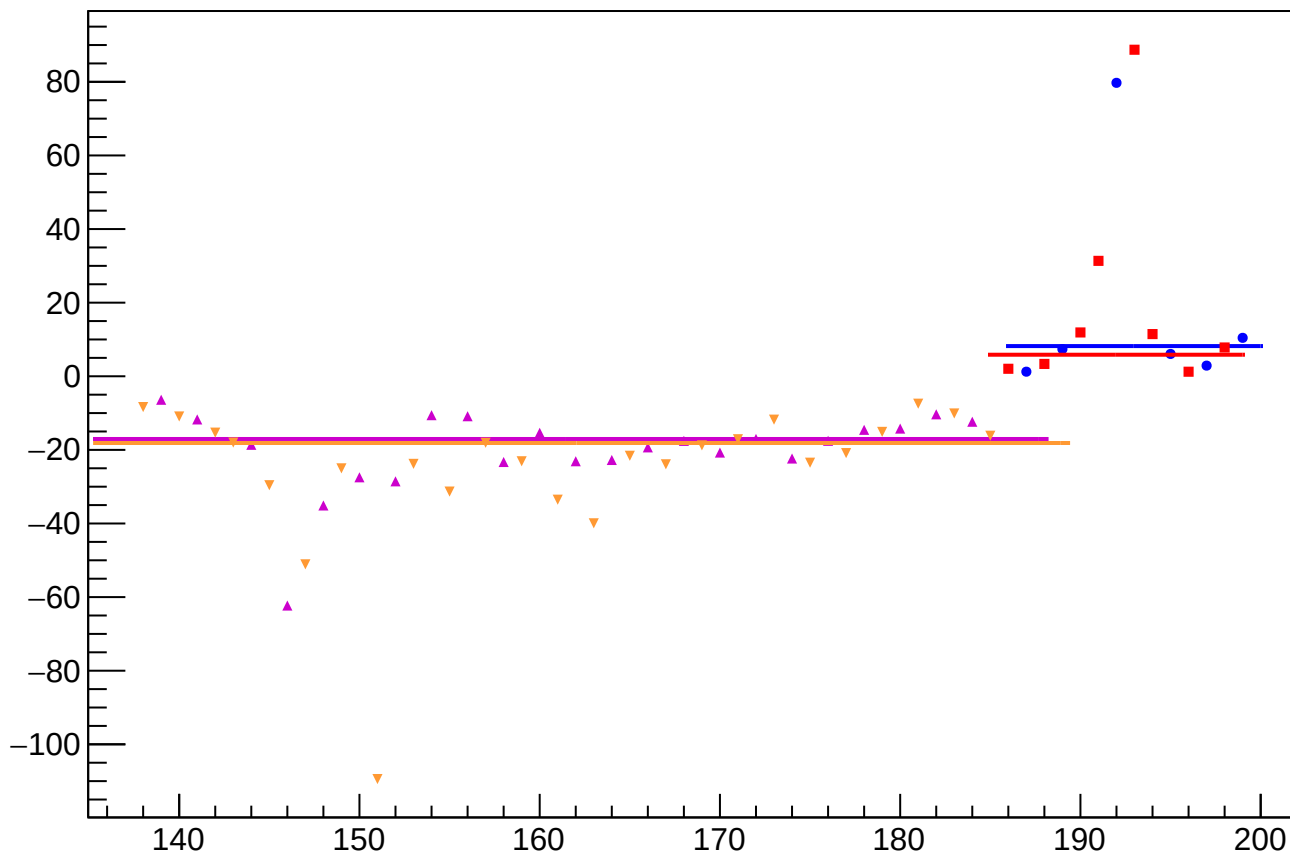
Right: 13.428+/-0.018 χ^2/NDF : 1157331.7/49

In: -0.273+/-0.010 χ^2/NDF : 1594414.4/45

Out: 0.251+/-0.010 χ^2/NDF : 2090289.5/51

All: -0.008+/-0.007 χ^2/NDF : 3686058.0/97

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.204 ± 0.090 $\chi^2/\text{NDF}: 24424.1/5$

Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$

Right Out: 5.855 ± 0.074 $\chi^2/\text{NDF}: 24915.1/7$

Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$

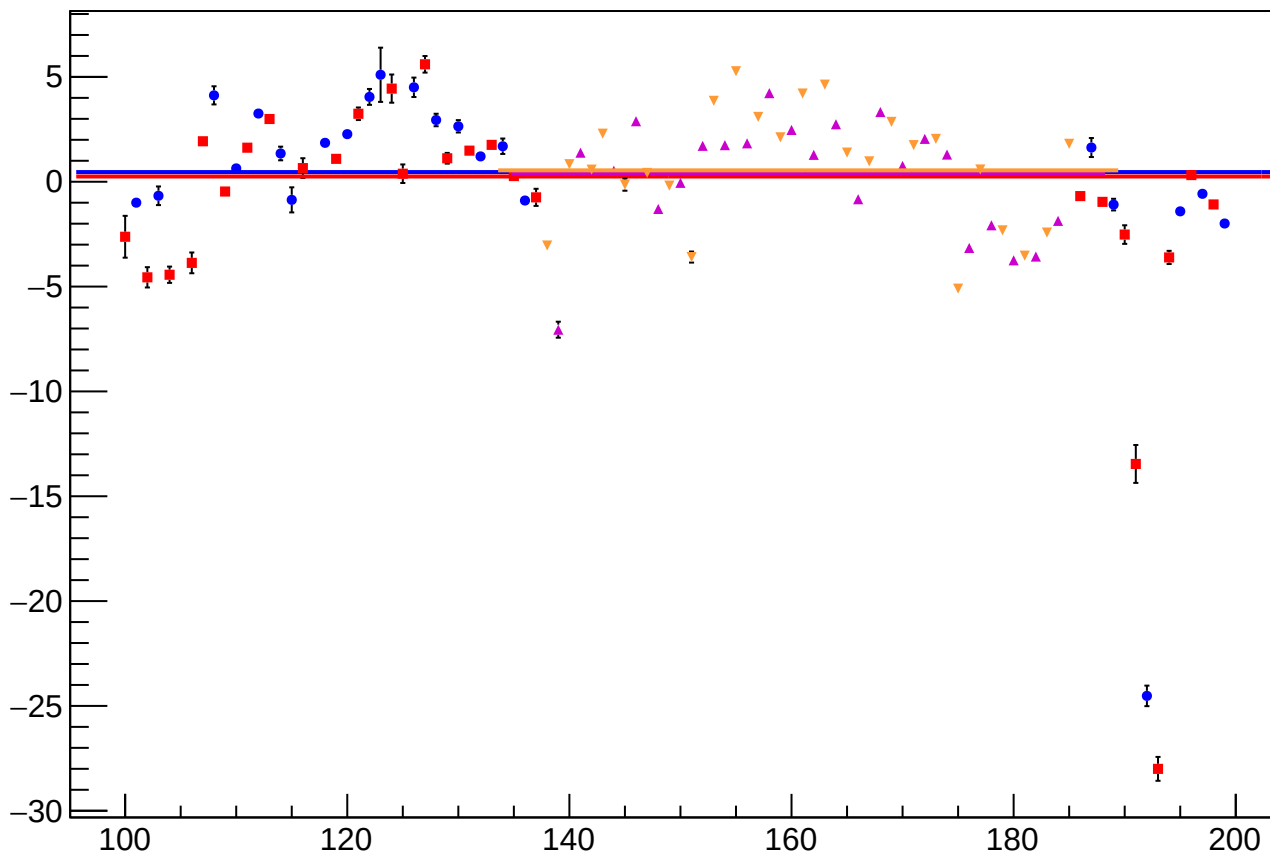
Right: 6.812 ± 0.057 $\chi^2/\text{NDF}: 49746.4/13$

In: -13.165 ± 0.035 $\chi^2/\text{NDF}: 135735.7/28$

Out: -12.969 ± 0.034 $\chi^2/\text{NDF}: 195176.4/32$

All: -13.065 ± 0.025 $\chi^2/\text{NDF}: 330927.9/61$

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: 0.250 $\pm$ 0.049 χ^2 /NDF: 4131.2/26

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

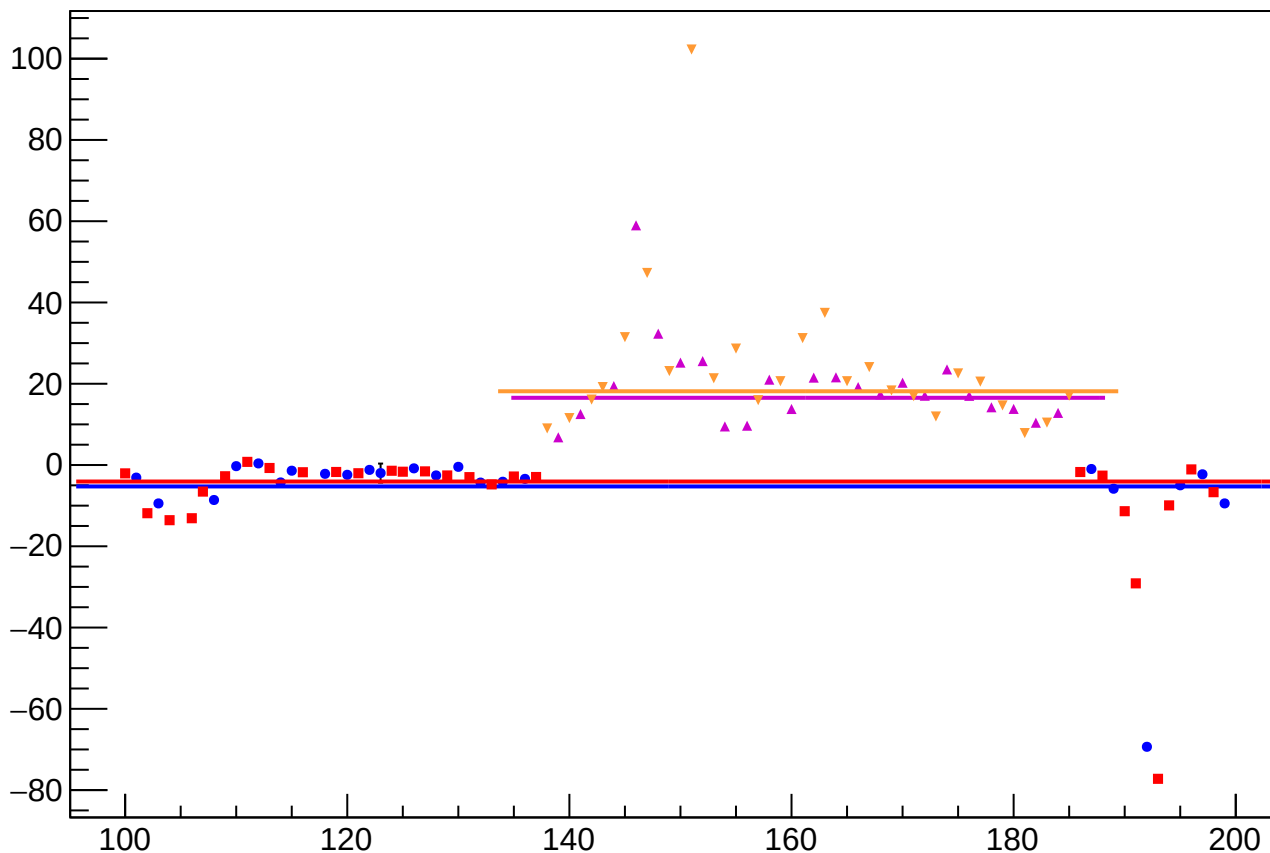
Right: 0.348 $\pm$ 0.036 χ^2 /NDF: 7889.3/49

In: 0.413 $\pm$ 0.027 χ^2 /NDF: 9986.2/45

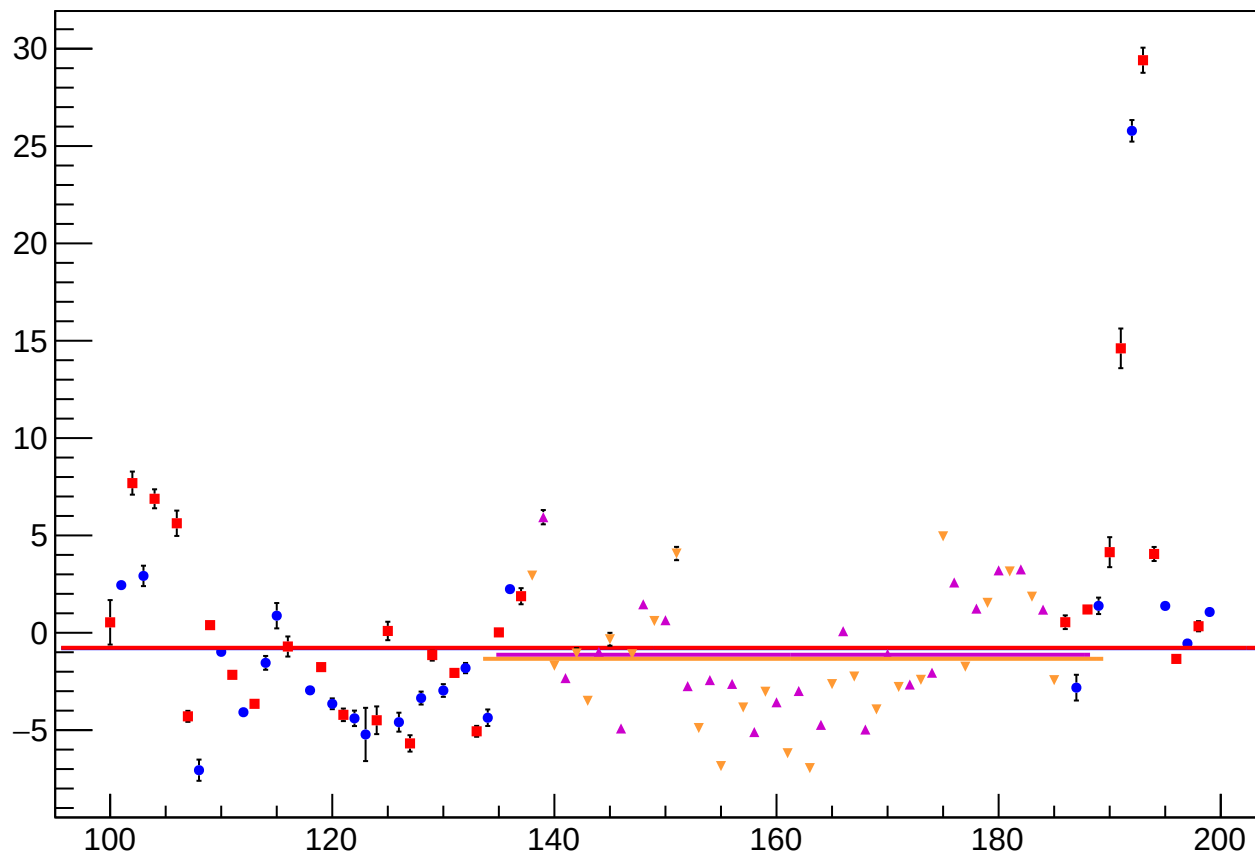
Out: 0.454 $\pm$ 0.027 χ^2 /NDF: 11241.4/51

All: 0.433 $\pm$ 0.019 χ^2 /NDF: 21228.8/97

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



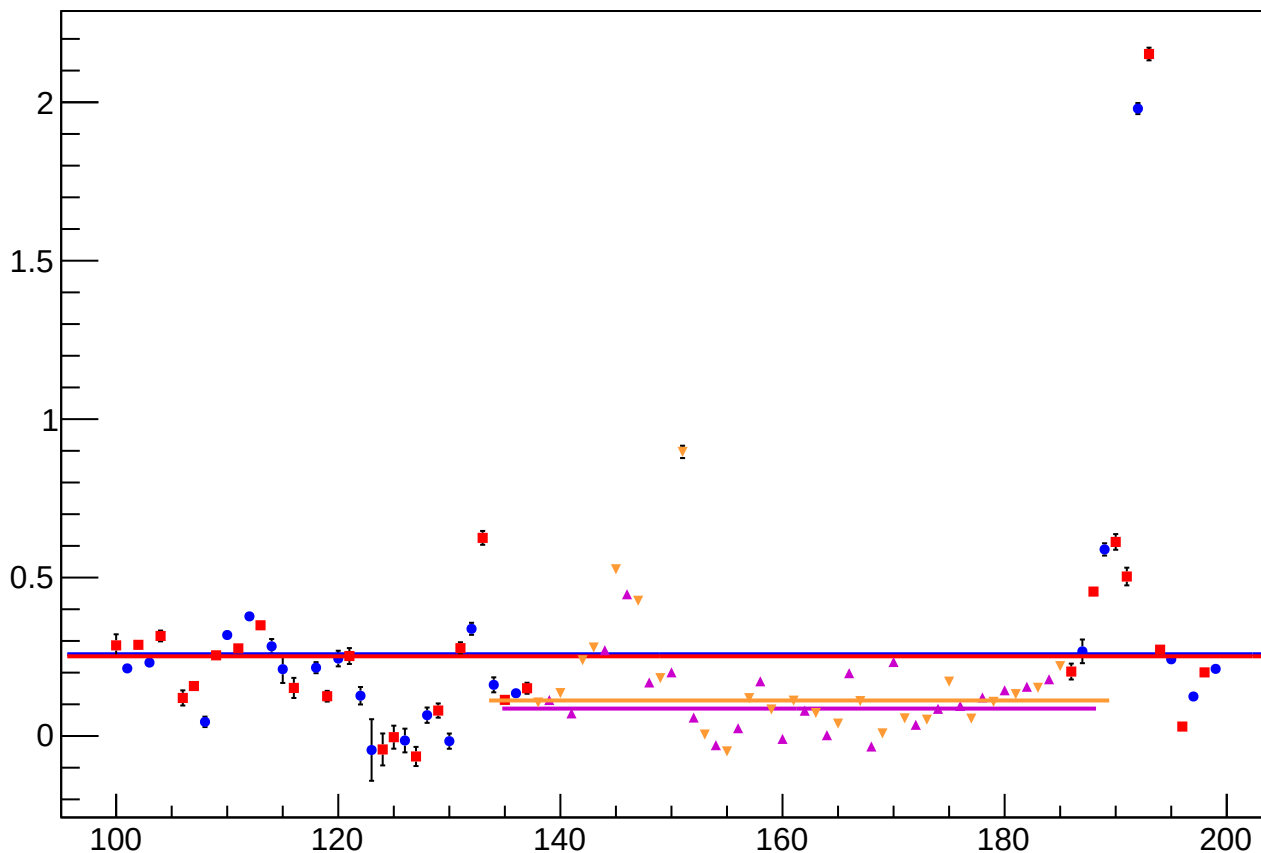
reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



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: -0.771 ± 0.058 $\chi^2/\text{NDF}: 4387.0/26$
 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: -0.781 ± 0.042 $\chi^2/\text{NDF}: 8264.0/49$
 In: -1.051 ± 0.030 $\chi^2/\text{NDF}: 10639.9/45$
 Out: -1.179 ± 0.030 $\chi^2/\text{NDF}: 12399.8/51$
 All: -1.114 ± 0.021 $\chi^2/\text{NDF}: 23048.8/97$

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: 0.251 ± 0.003 χ^2/NDF : 11580.0/26

Left In: 0.087 ± 0.002 χ^2/NDF : 3655.4/22

Left: 0.098 ± 0.001 χ^2/NDF : 8295.3/47

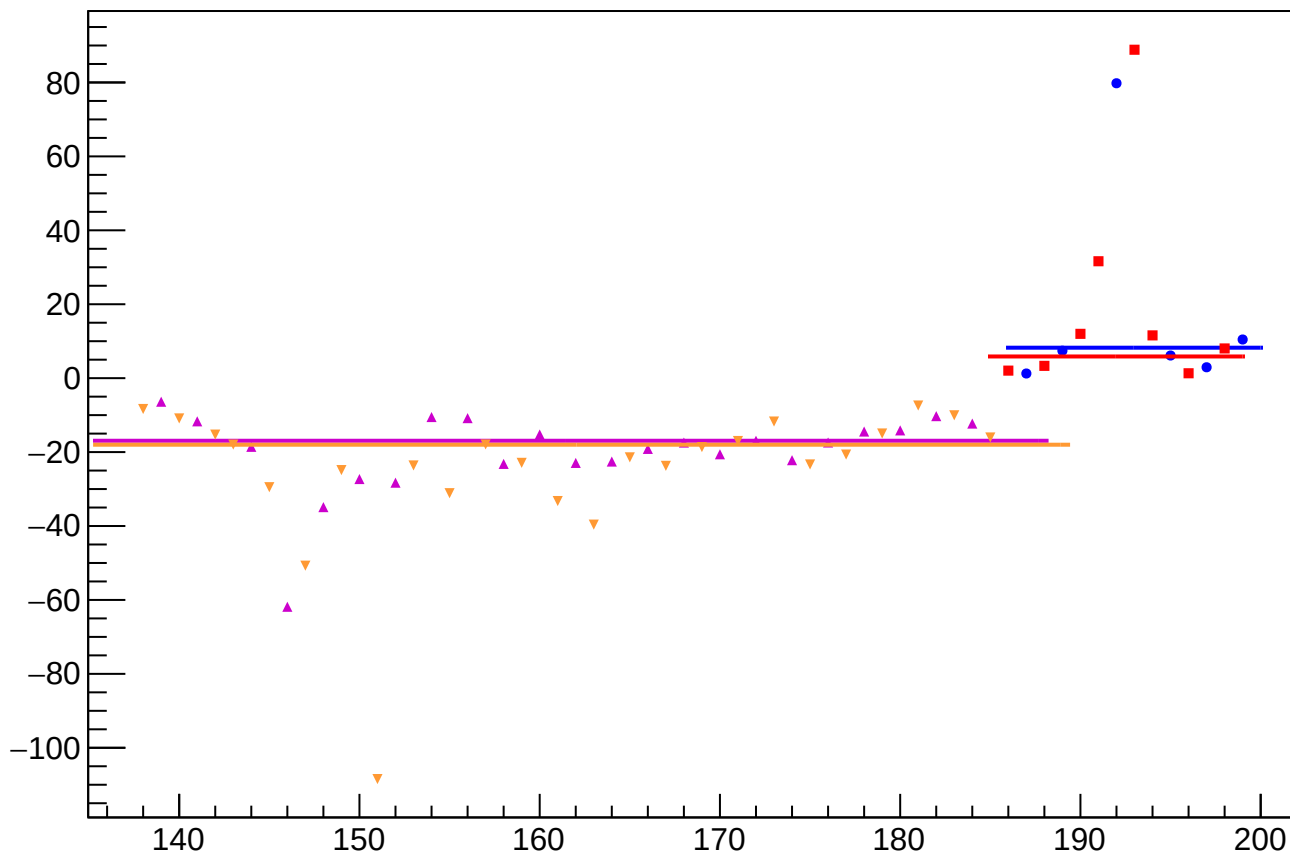
Right: 0.255 ± 0.002 χ^2/NDF : 22706.9/49

In: 0.123 ± 0.001 χ^2/NDF : 17546.2/45

Out: 0.147 ± 0.001 χ^2/NDF : 17963.1/51

All: 0.134 ± 0.001 χ^2/NDF : 35663.2/97

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: 5.869 ± 0.074 $\chi^2/\text{NDF}: 25266.0/7$

Left In: -16.934 ± 0.038 $\chi^2/\text{NDF}: 44060.6/22$

Left: -17.459 ± 0.027 $\chi^2/\text{NDF}: 132843.0/47$

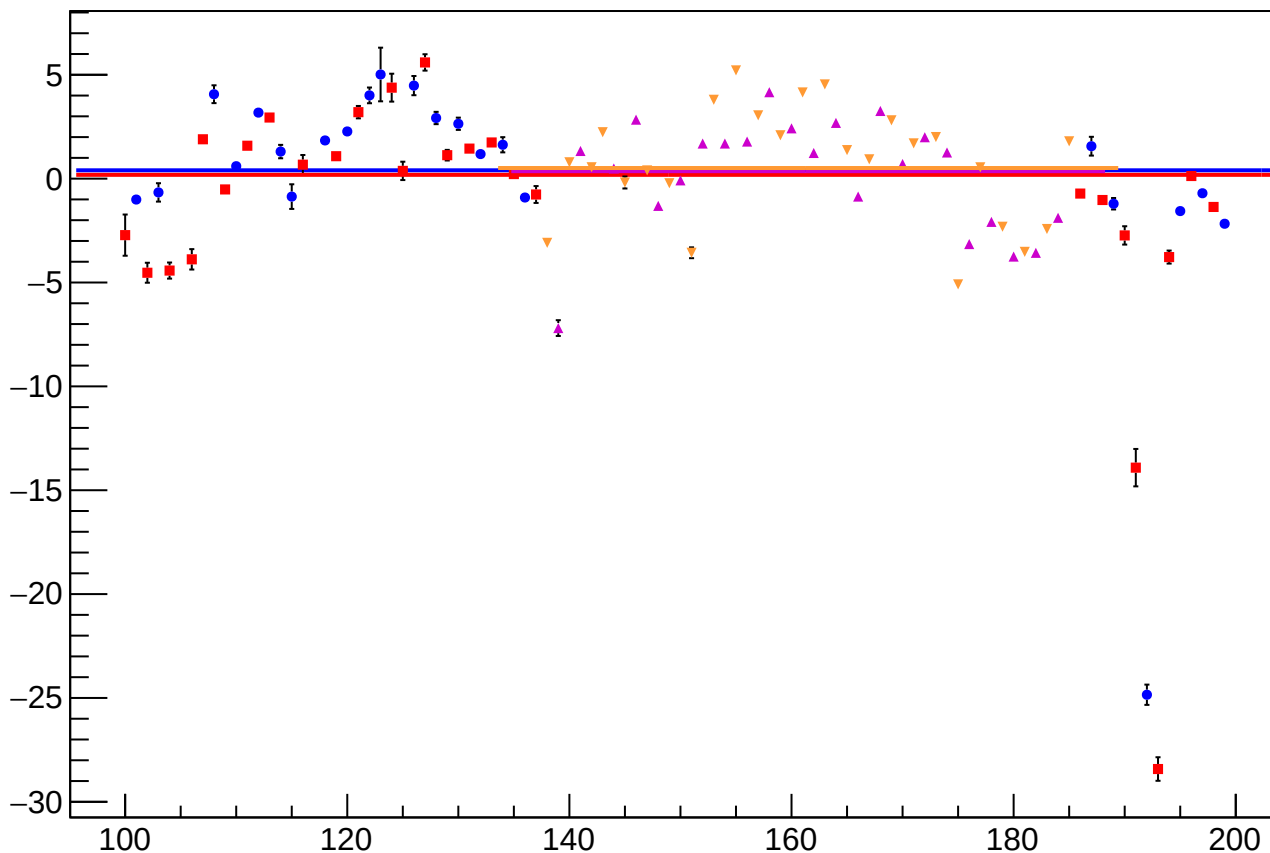
Right: 6.831 ± 0.057 $\chi^2/\text{NDF}: 50295.9/13$

In: -13.083 ± 0.035 $\chi^2/\text{NDF}: 136152.3/28$

Out: -12.853 ± 0.034 $\chi^2/\text{NDF}: 196023.6/32$

All: -12.966 ± 0.024 $\chi^2/\text{NDF}: 332198.1/61$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.402 $\pm$ 0.053 χ^2 /NDF: 3871.1/22

Left Out: 0.511 $\pm$ 0.032 χ^2 /NDF: 7070.4/24

Right Out: 0.184 $\pm$ 0.049 χ^2 /NDF: 4282.1/26

Left In: 0.360 $\pm$ 0.031 χ^2 /NDF: 6221.1/22

Left: 0.432 $\pm$ 0.022 χ^2 /NDF: 13303.2/47

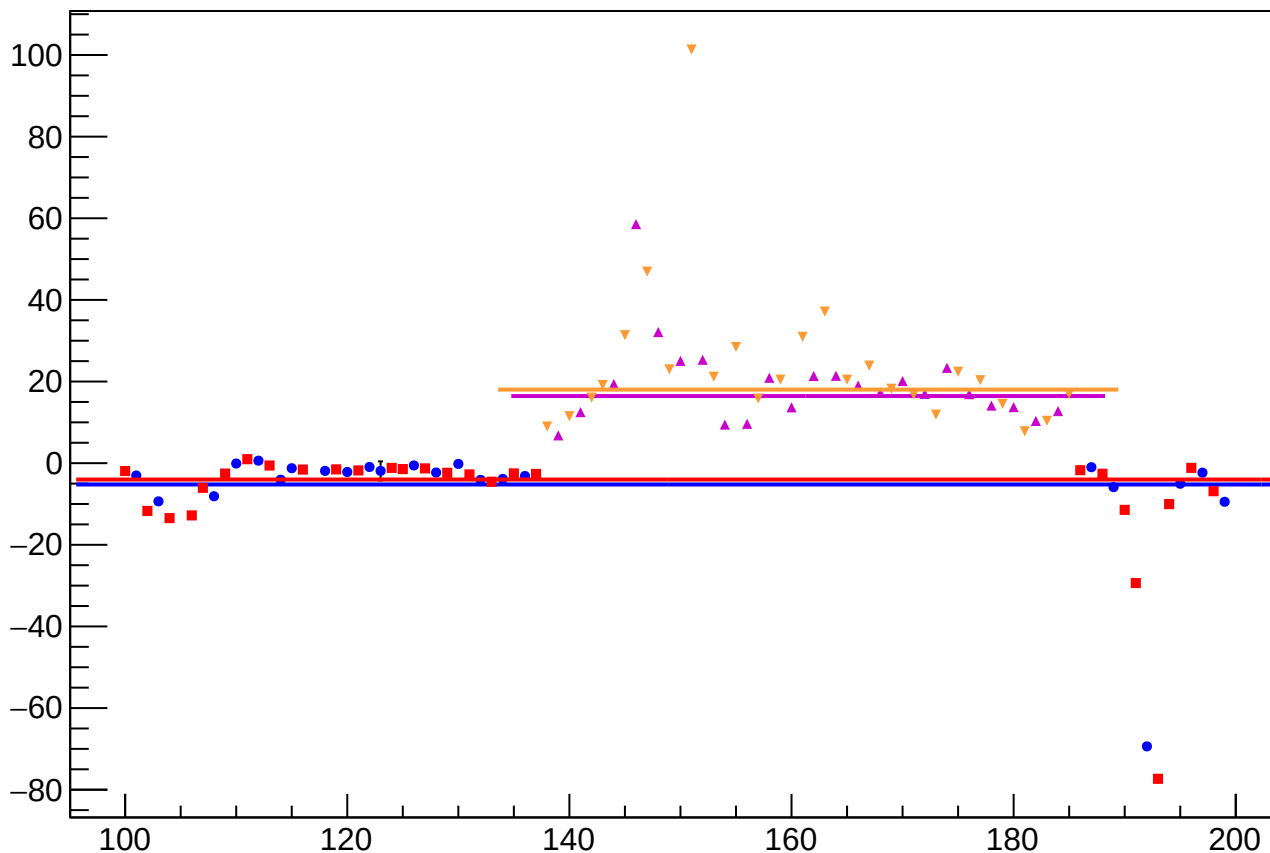
Right: 0.284 $\pm$ 0.036 χ^2 /NDF: 8162.4/49

In: 0.370 $\pm$ 0.026 χ^2 /NDF: 10092.7/45

Out: 0.412 $\pm$ 0.027 χ^2 /NDF: 11383.9/51

All: 0.391 $\pm$ 0.019 χ^2 /NDF: 21477.9/97

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: -4.007 ± 0.052 $\chi^2/\text{NDF}: 26956.6/26$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

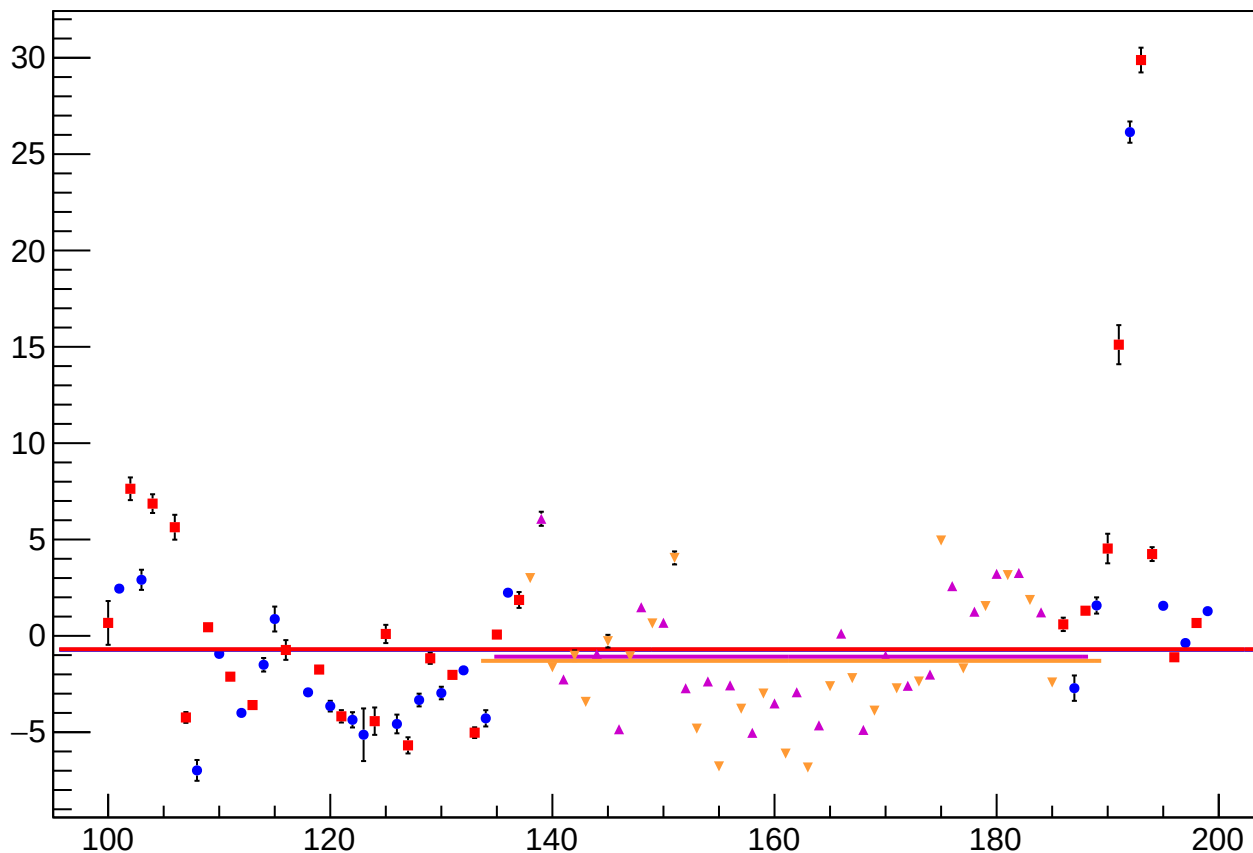
Right: -4.503 ± 0.040 $\chi^2/\text{NDF}: 53892.1/49$

In: 10.680 ± 0.032 $\chi^2/\text{NDF}: 156225.0/45$

Out: 10.091 ± 0.031 $\chi^2/\text{NDF}: 220703.5/51$

All: 10.375 ± 0.022 $\chi^2/\text{NDF}: 377102.4/97$

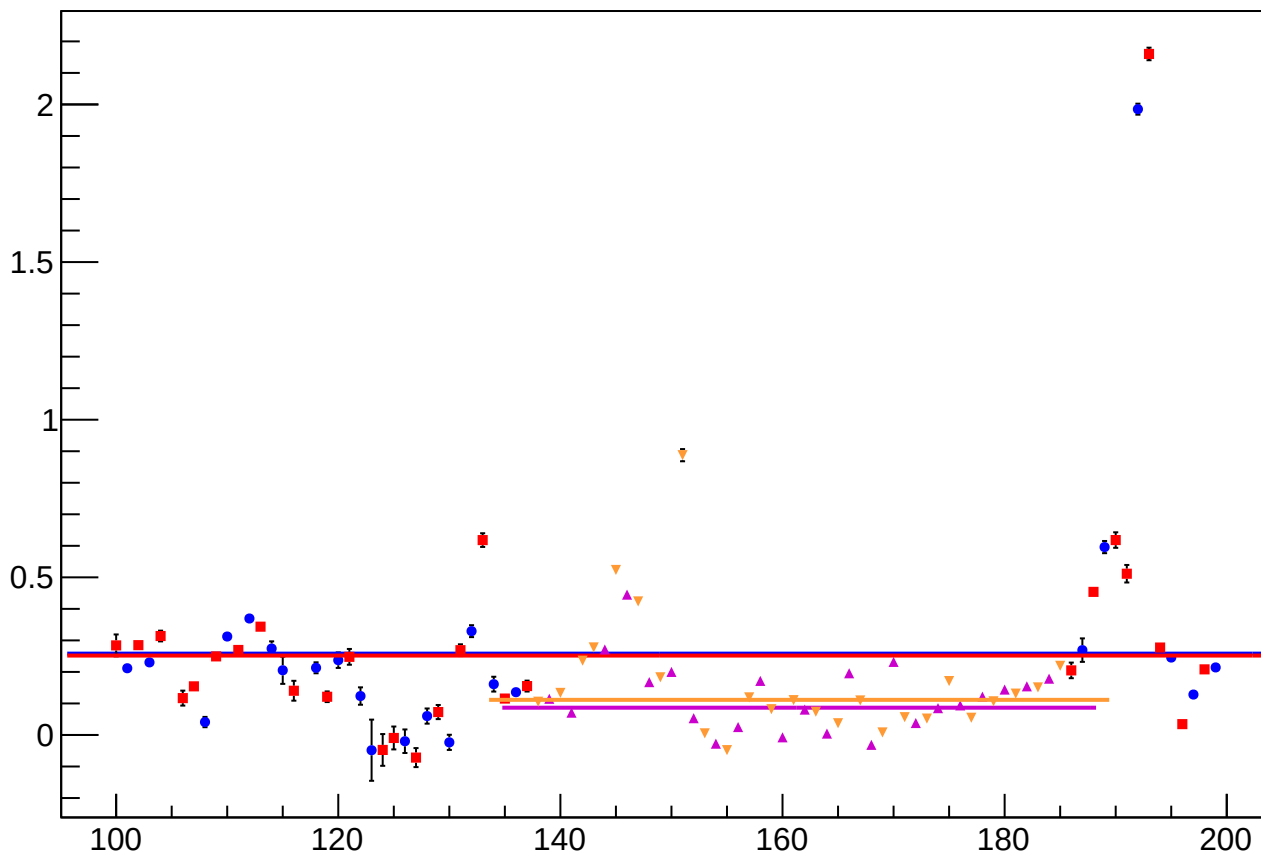
reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



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: -0.695 ± 0.057 $\chi^2/\text{NDF}: 4528.5/26$
 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: -0.708 ± 0.042 $\chi^2/\text{NDF}: 8507.0/49$
 In: -0.998 ± 0.030 $\chi^2/\text{NDF}: 10728.5/45$
 Out: -1.129 ± 0.030 $\chi^2/\text{NDF}: 12533.2/51$
 All: -1.063 ± 0.021 $\chi^2/\text{NDF}: 23271.1/97$

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: 0.252 $\pm$ 0.003 χ^2 /NDF: 11714.6/26

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

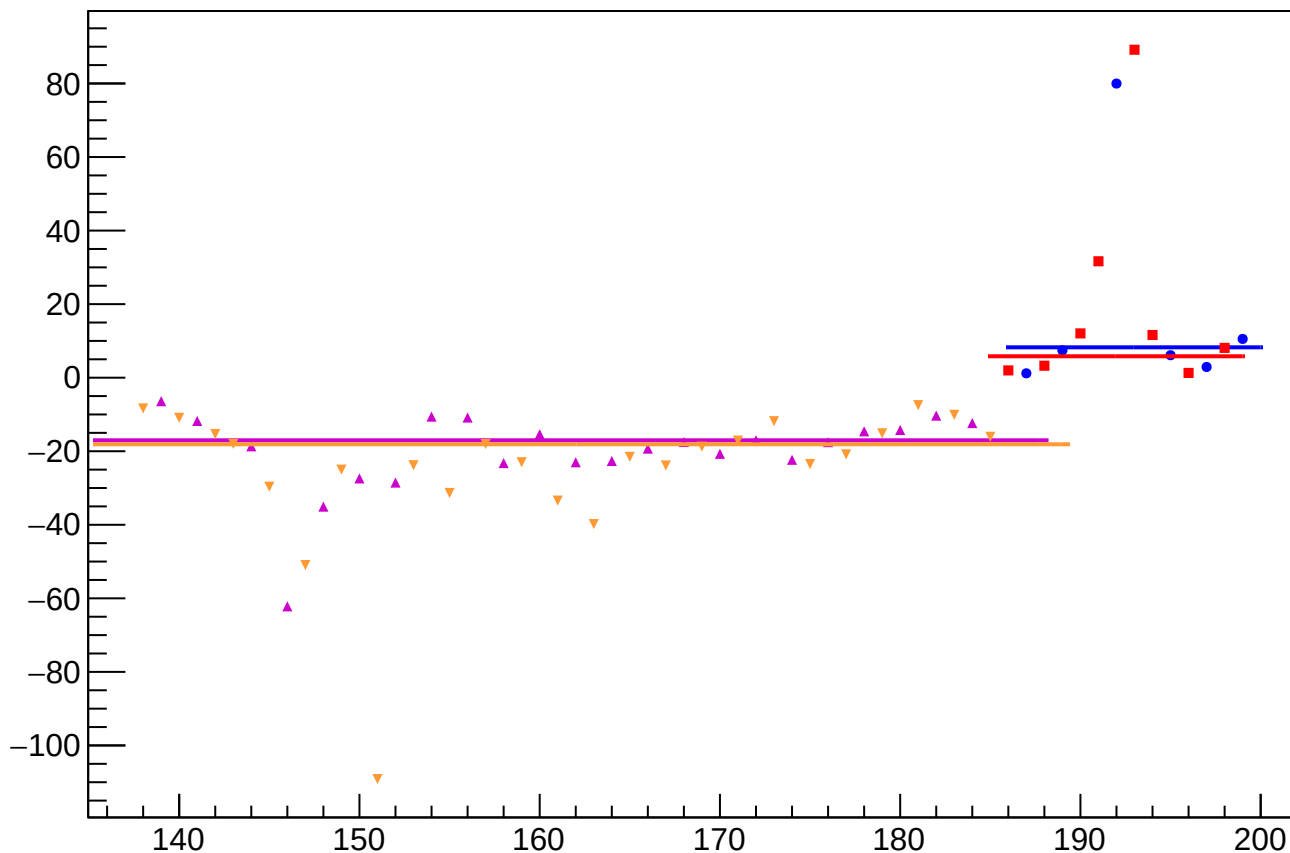
Right: 0.255 $\pm$ 0.002 χ^2 /NDF: 22972.1/49

In: 0.123 $\pm$ 0.001 χ^2 /NDF:17675.7/45

Out: 0.146 $\pm$ 0.001 χ^2 /NDF:18140.4/51

All: 0.134 $\pm$ 0.001 χ^2 /NDF: 35966.3/97

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: 5.820 ± 0.074 $\chi^2/\text{NDF}: 25285.8/7$

Left In: -17.024 ± 0.038 $\chi^2/\text{NDF}: 44141.8/22$

Left: -17.557 ± 0.027 $\chi^2/\text{NDF}: 133072.9/47$

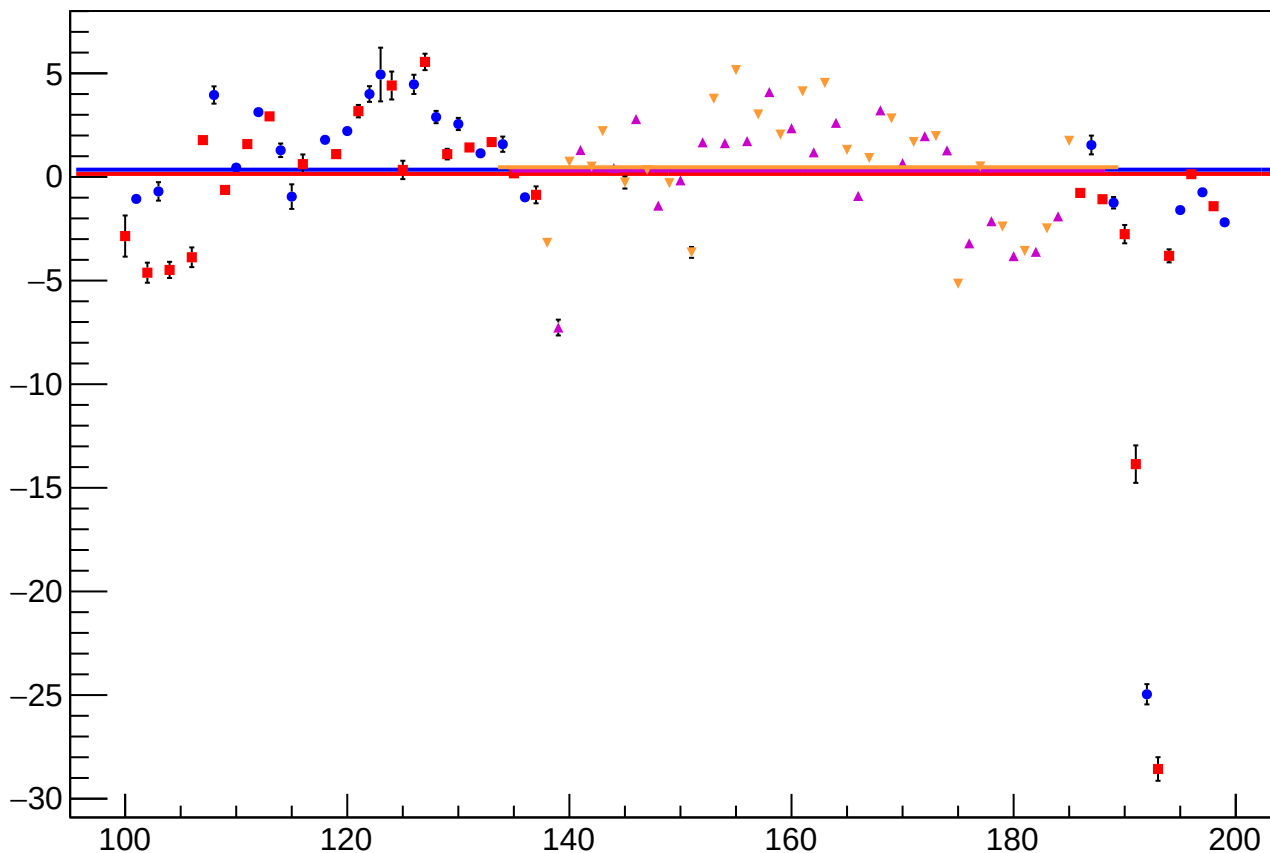
Right: 6.802 ± 0.057 $\chi^2/\text{NDF}: 50328.7/13$

In: -13.175 ± 0.035 $\chi^2/\text{NDF}: 135954.0/28$

Out: -12.926 ± 0.034 $\chi^2/\text{NDF}: 196241.8/32$

All: -13.048 ± 0.025 $\chi^2/\text{NDF}: 332221.6/61$

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.352 $\pm$ 0.053 χ^2 /NDF: 3856.5/22

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.146 $\pm$ 0.049 χ^2 /NDF: 4280.3/26

Left In: 0.311 $\pm$ 0.031 χ^2 /NDF: 6183.1/22

Left: 0.386 $\pm$ 0.022 χ^2 /NDF: 13288.8/47

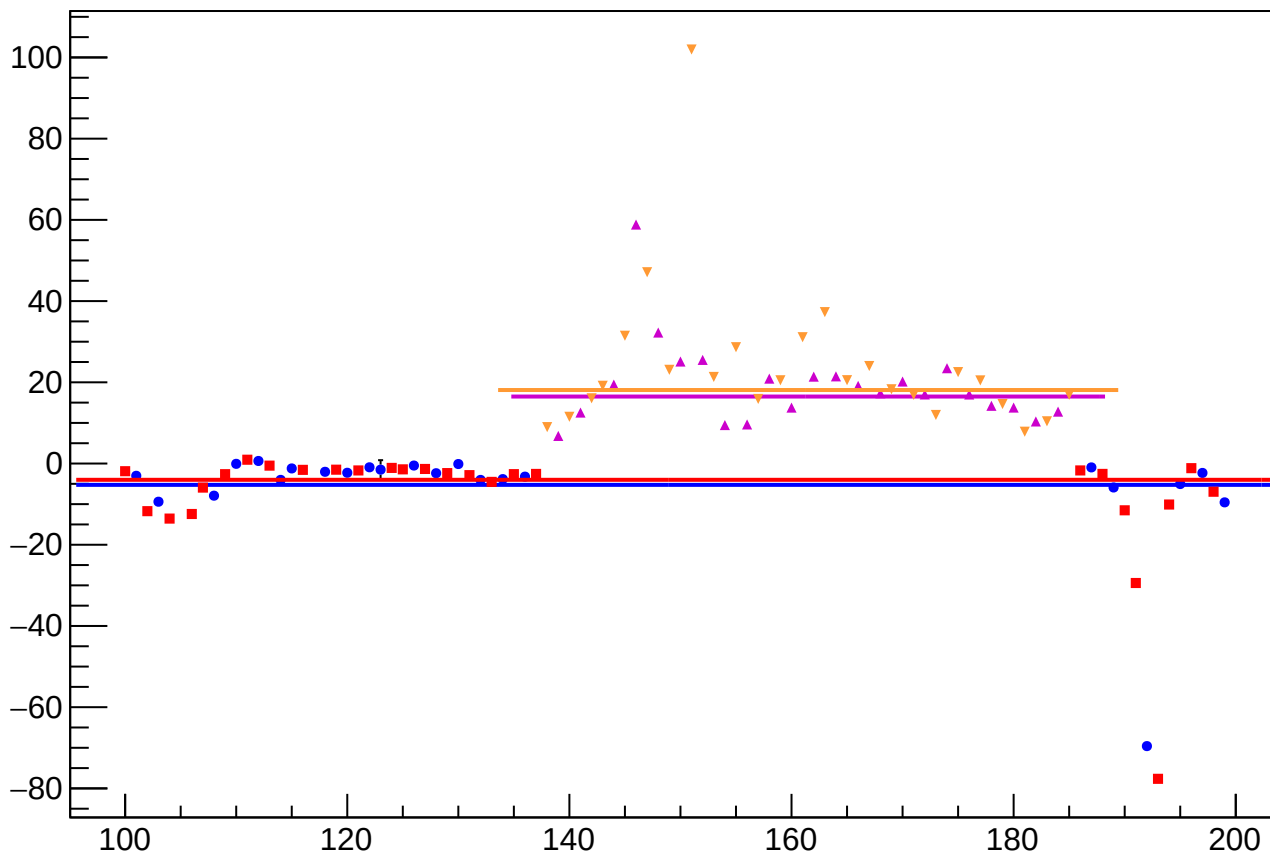
Right: 0.241 $\pm$ 0.036 χ^2 /NDF: 8145.0/49

In: 0.321 $\pm$ 0.027 χ^2 /NDF: 10040.1/45

Out: 0.371 $\pm$ 0.027 χ^2 /NDF: 11403.7/51

All: 0.346 $\pm$ 0.019 χ^2 /NDF: 21445.5/97

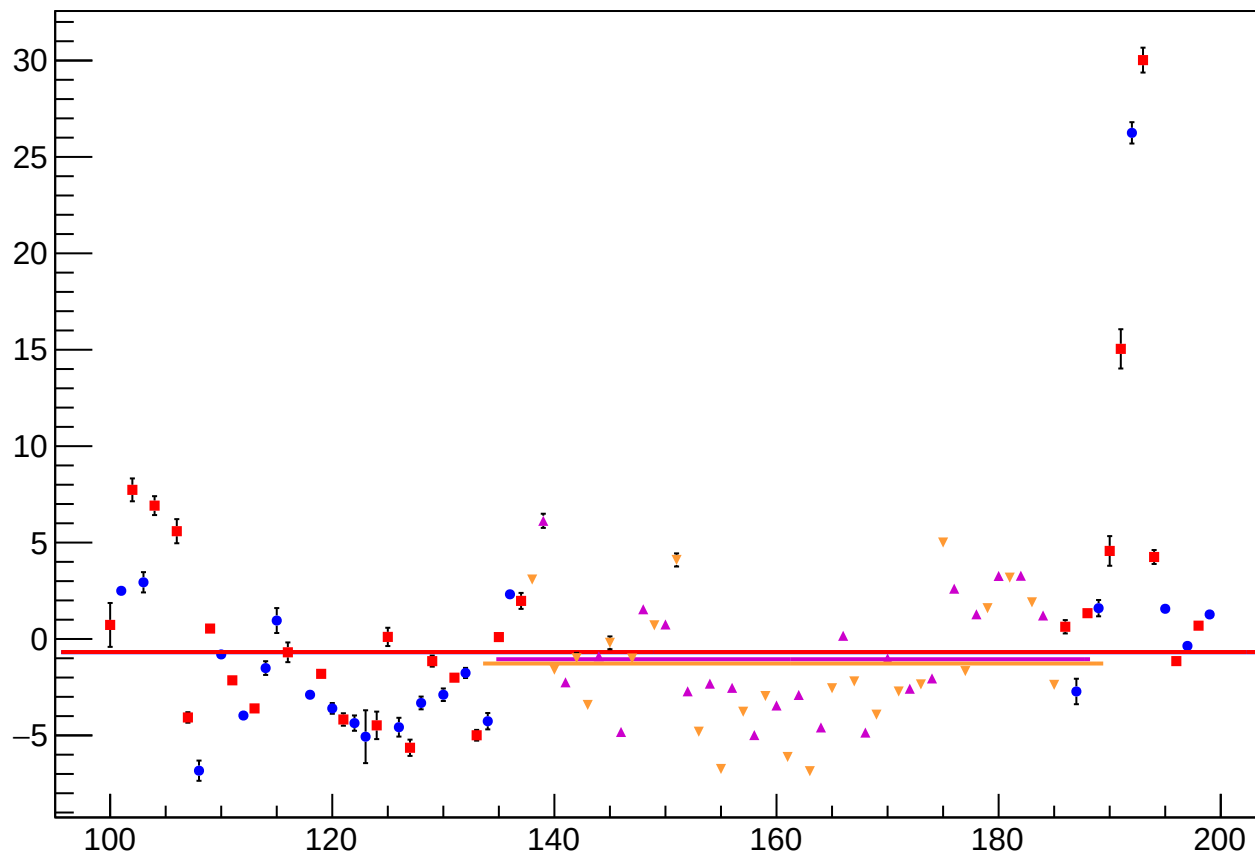
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



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: -4.008 ± 0.052 χ^2/NDF : 26952.1/26
 Left In: 16.496 ± 0.038 χ^2/NDF : 40867.3/22

Left: 17.270 ± 0.027 χ^2/NDF : 119584.1/47
 Right: -4.513 ± 0.040 χ^2/NDF : 53887.0/49
 In: 10.731 ± 0.032 χ^2/NDF : 155981.9/45
 Out: 10.117 ± 0.031 χ^2/NDF : 220911.6/51
 All: 10.413 ± 0.022 χ^2/NDF : 377080.7/97

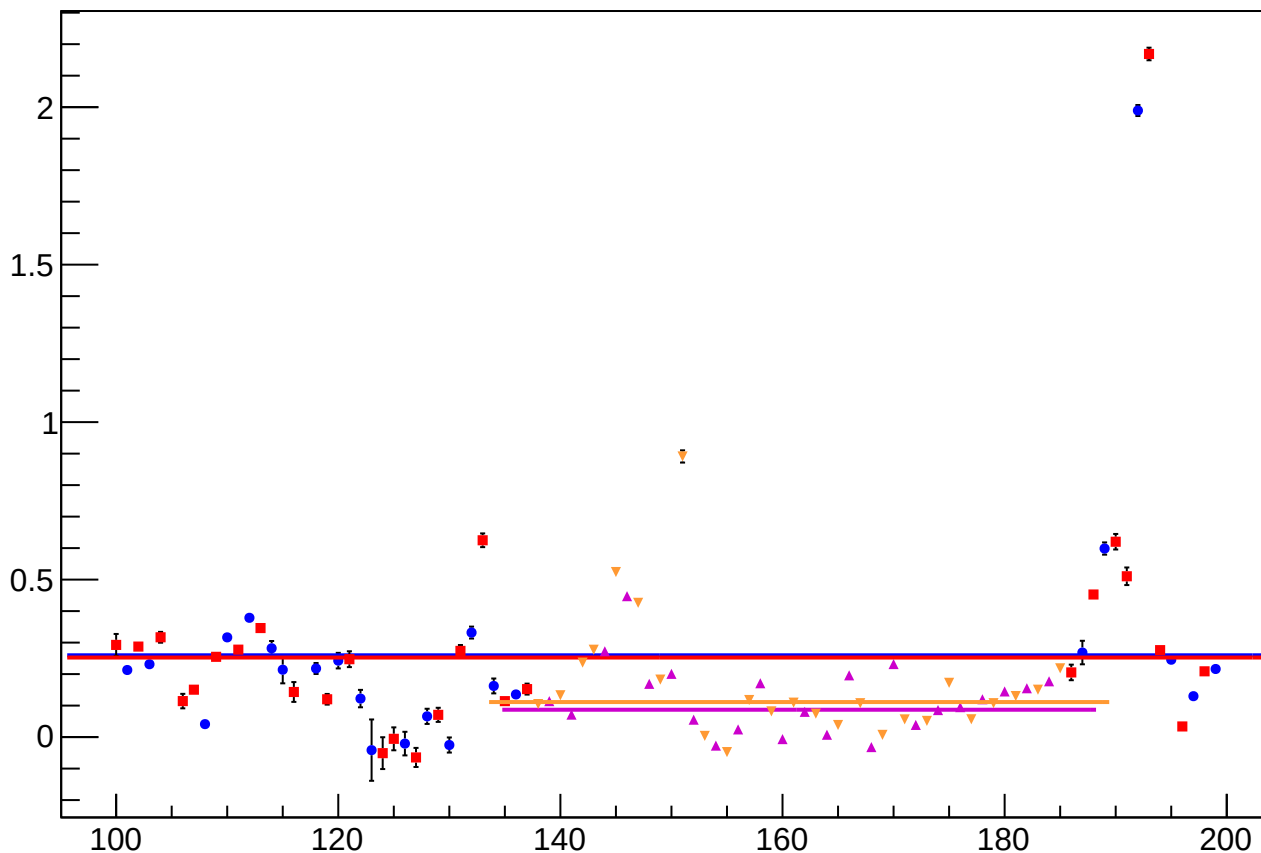
reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



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: -0.676 ± 0.057 $\chi^2/\text{NDF}: 4529.9/26$
 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: -0.681 ± 0.042 $\chi^2/\text{NDF}: 8497.9/49$
 In: -0.966 ± 0.030 $\chi^2/\text{NDF}: 10667.7/45$
 Out: -1.106 ± 0.030 $\chi^2/\text{NDF}: 12559.1/51$
 All: -1.035 ± 0.021 $\chi^2/\text{NDF}: 23237.7/97$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.260 ± 0.003 $\chi^2/\text{NDF}: 11247.0/22$

Left Out: 0.111 ± 0.002 $\chi^2/\text{NDF}: 4474.5/24$

Right Out: 0.253 ± 0.003 $\chi^2/\text{NDF}: 11730.3/26$

Left In: 0.087 ± 0.001 $\chi^2/\text{NDF}: 3598.5/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8197.1/47$

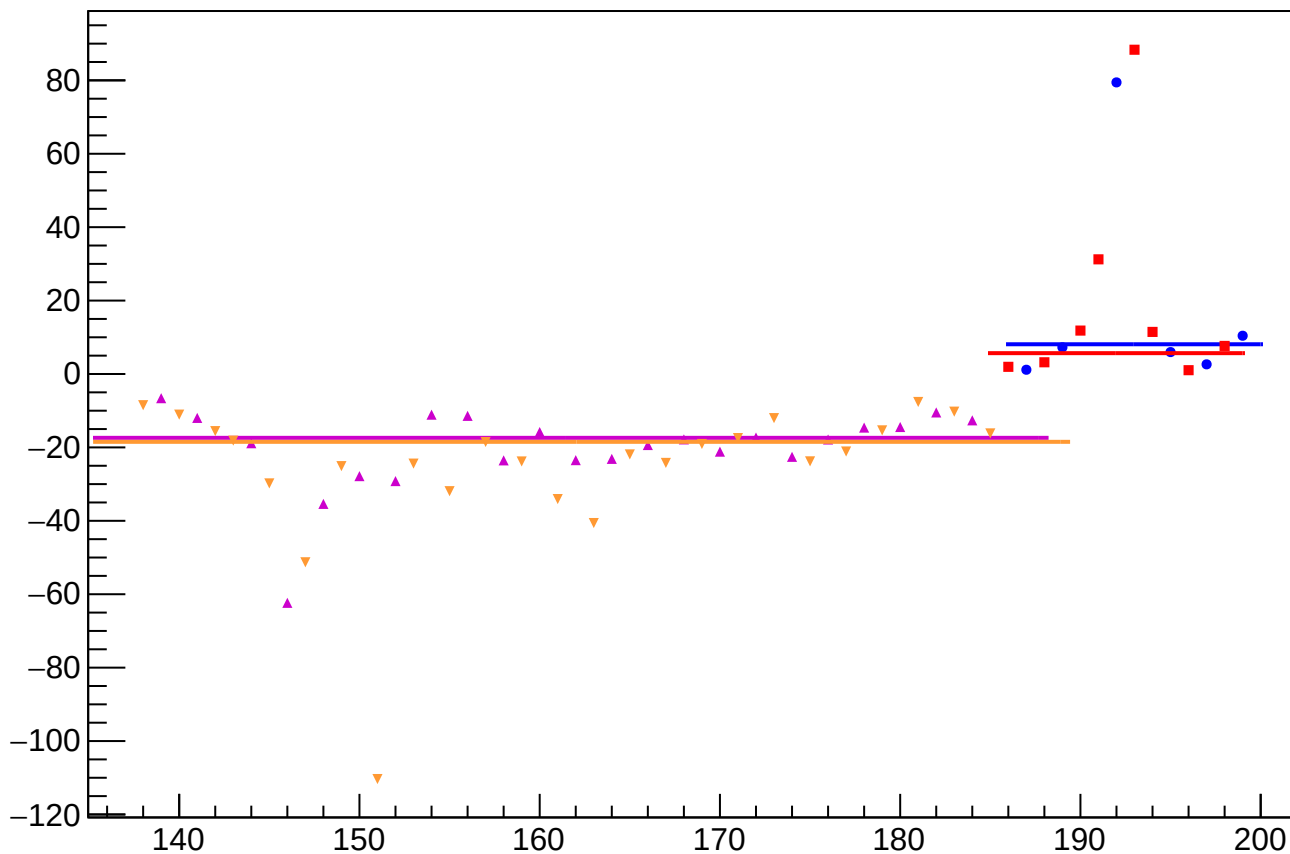
Right: 0.256 ± 0.002 $\chi^2/\text{NDF}: 22980.4/49$

In: 0.123 ± 0.001 $\chi^2/\text{NDF}: 17655.8/45$

Out: 0.146 ± 0.001 $\chi^2/\text{NDF}: 18144.7/51$

All: 0.134 ± 0.001 $\chi^2/\text{NDF}: 35944.1/97$

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.101 ± 0.090 $\chi^2/\text{NDF}: 24257.4/5$

Left Out: -18.479 ± 0.040 $\chi^2/\text{NDF}: 87883.4/24$

Right Out: 5.678 ± 0.074 $\chi^2/\text{NDF}: 24765.8/7$

Left In: -17.393 ± 0.039 $\chi^2/\text{NDF}: 43178.9/22$

Left: -17.926 ± 0.028 $\chi^2/\text{NDF}: 131443.9/47$

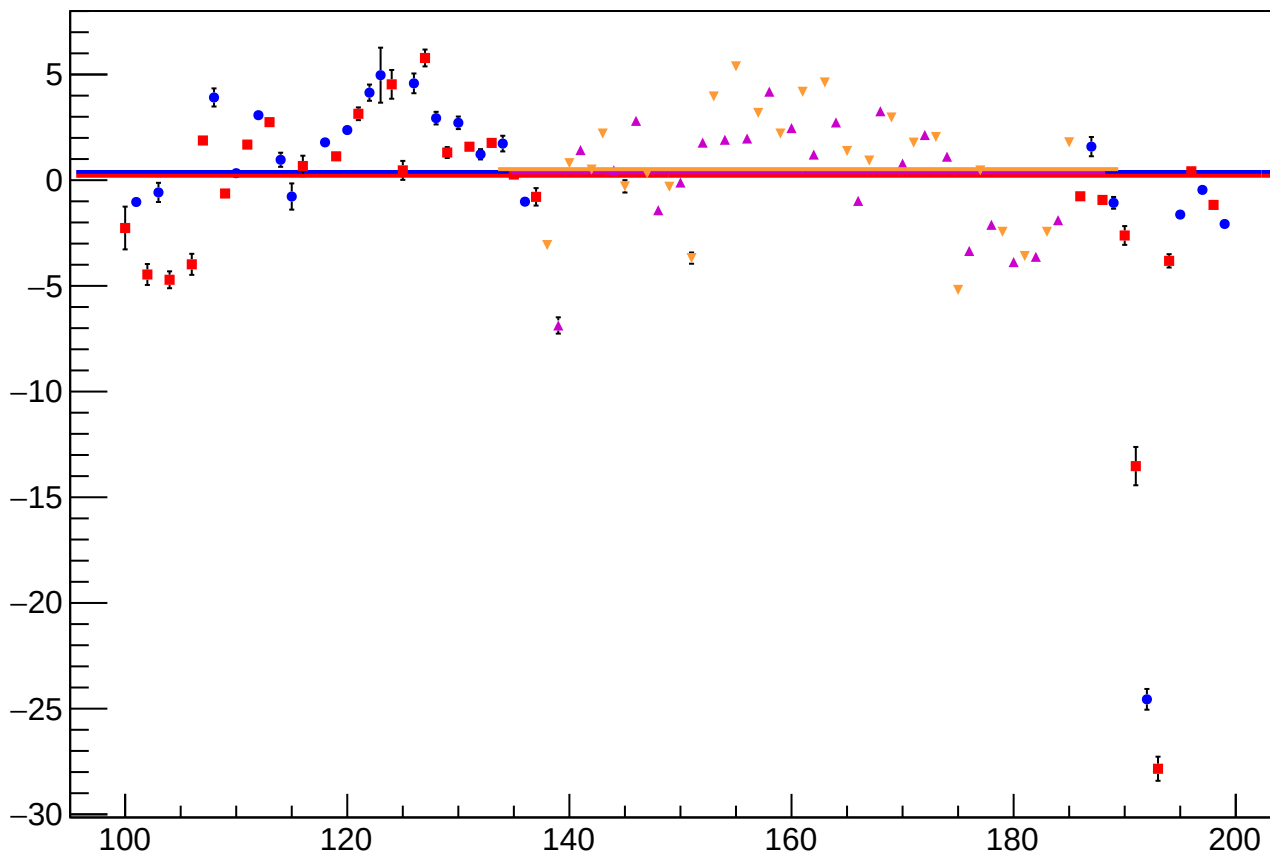
Right: 6.653 ± 0.057 $\chi^2/\text{NDF}: 49453.8/13$

In: -13.392 ± 0.036 $\chi^2/\text{NDF}: 134645.3/28$

Out: -13.090 ± 0.035 $\chi^2/\text{NDF}: 195242.1/32$

All: -13.238 ± 0.025 $\chi^2/\text{NDF}: 329923.6/61$

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: 0.210 ± 0.050 $\chi^2/\text{NDF}: 4091.5/26$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

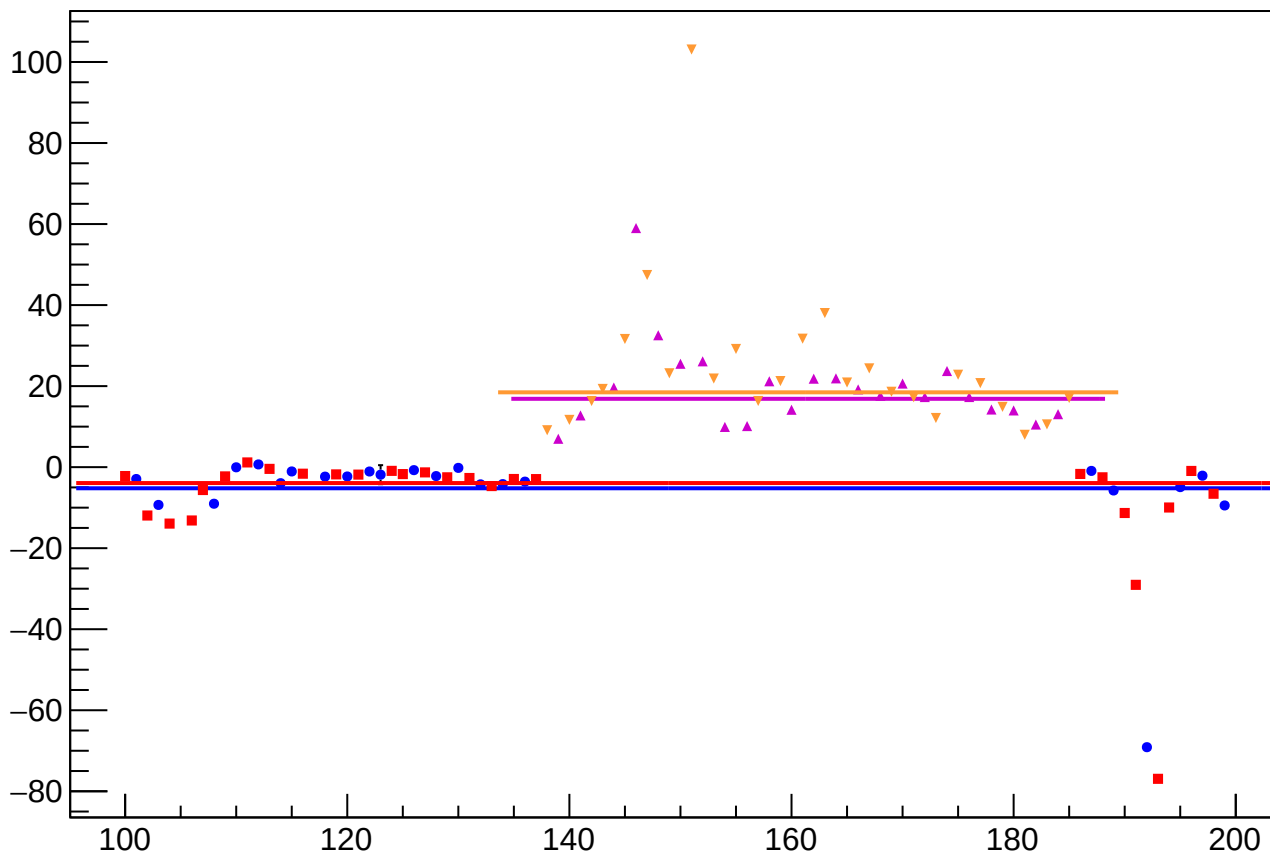
Right: 0.292 ± 0.037 $\chi^2/\text{NDF}: 7822.8/49$

In: 0.375 ± 0.027 $\chi^2/\text{NDF}: 9943.0/45$

Out: 0.426 ± 0.027 $\chi^2/\text{NDF}: 11173.8/51$

All: 0.400 ± 0.019 $\chi^2/\text{NDF}: 21118.6/97$

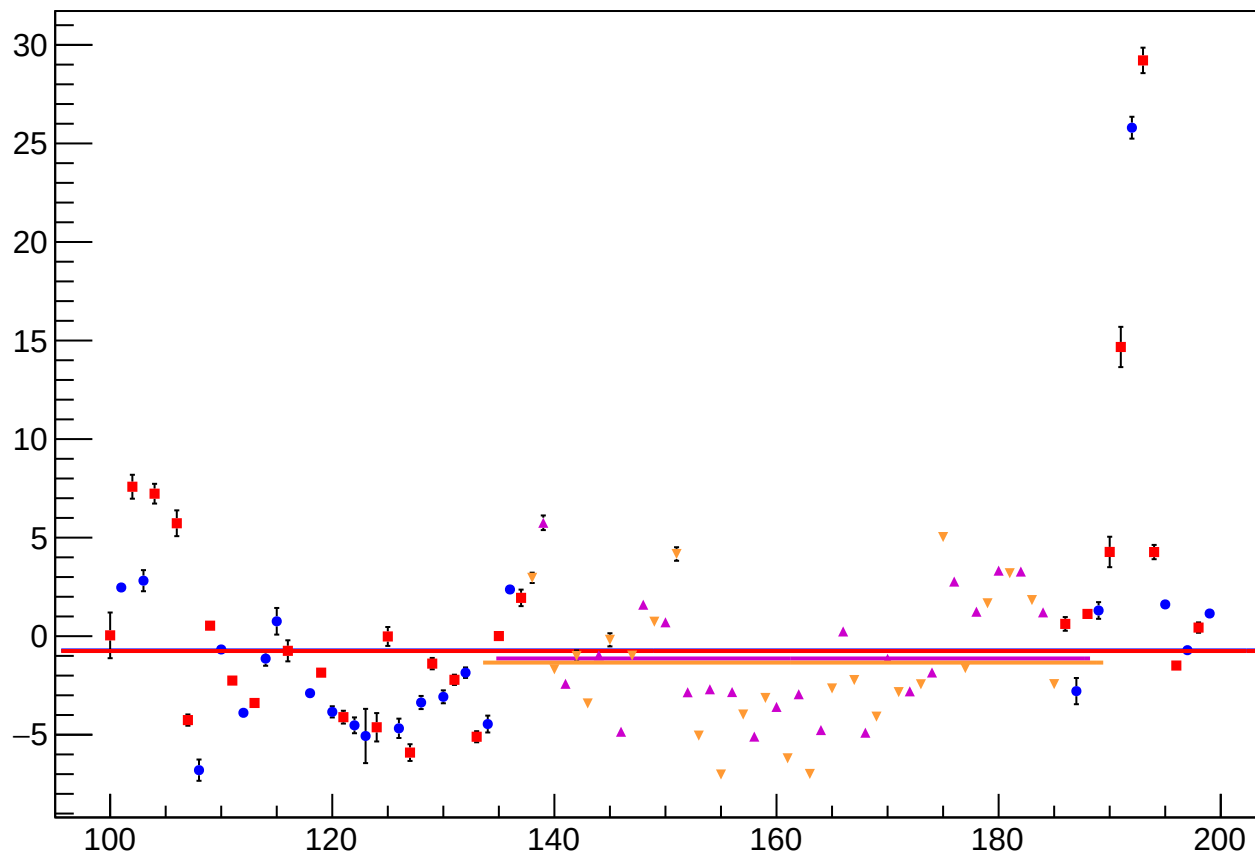
reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.216+/-0.063 χ^2/NDF : 26228.0/22
 Left Out: 18.467+/-0.040 χ^2/NDF : 77226.7/24
 Right Out: -3.926+/-0.052 χ^2/NDF : 26406.0/26
 Left In: 16.867+/-0.039 χ^2/NDF : 39779.0/22

Left: 17.640+/-0.028 χ^2/NDF : 117837.8/47
 Right: -4.450+/-0.040 χ^2/NDF : 52880.5/49
 In: 10.888+/-0.033 χ^2/NDF : 154772.6/45
 Out: 10.236+/-0.032 χ^2/NDF : 219502.2/51
 All: 10.550+/-0.023 χ^2/NDF : 374478.2/97

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

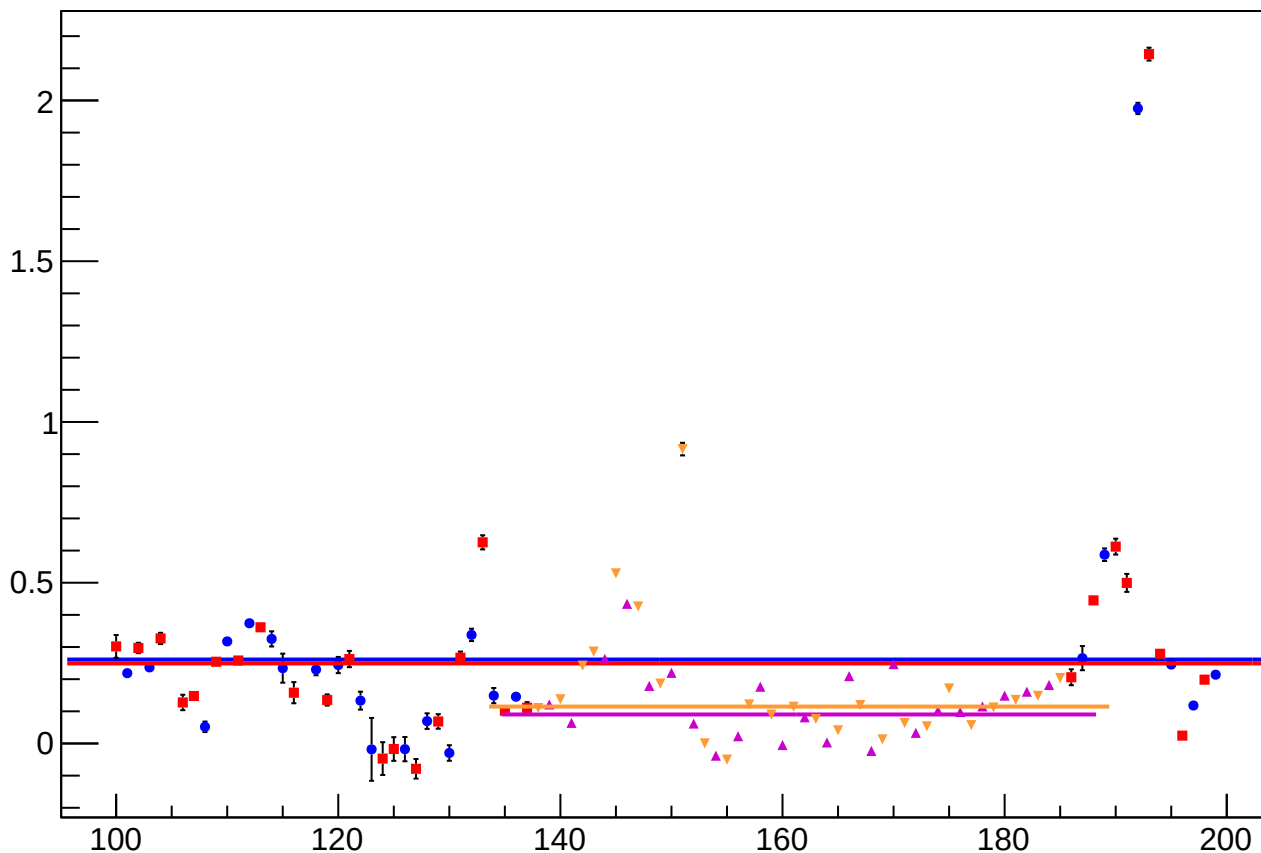


Right In: -0.724 ± 0.063 $\chi^2/\text{NDF}: 3855.4/22$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -0.753 ± 0.058 $\chi^2/\text{NDF}: 4347.7/26$
 Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$
 Right: -0.740 ± 0.043 $\chi^2/\text{NDF}: 8203.3/49$
 In: -1.036 ± 0.030 $\chi^2/\text{NDF}: 10596.2/45$
 Out: -1.175 ± 0.031 $\chi^2/\text{NDF}: 12327.5/51$

All: -1.104 ± 0.022 $\chi^2/\text{NDF}: 22933.9/97$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.261+/-0.003 χ^2/NDF : 10992.0/22

Left Out: 0.115+/-0.002 χ^2/NDF : 4431.9/24

Right Out: 0.249+/-0.003 χ^2/NDF : 11579.5/26

Left In: 0.090+/-0.002 χ^2/NDF : 3676.5/22

Left: 0.102+/-0.001 χ^2/NDF : 8228.2/47

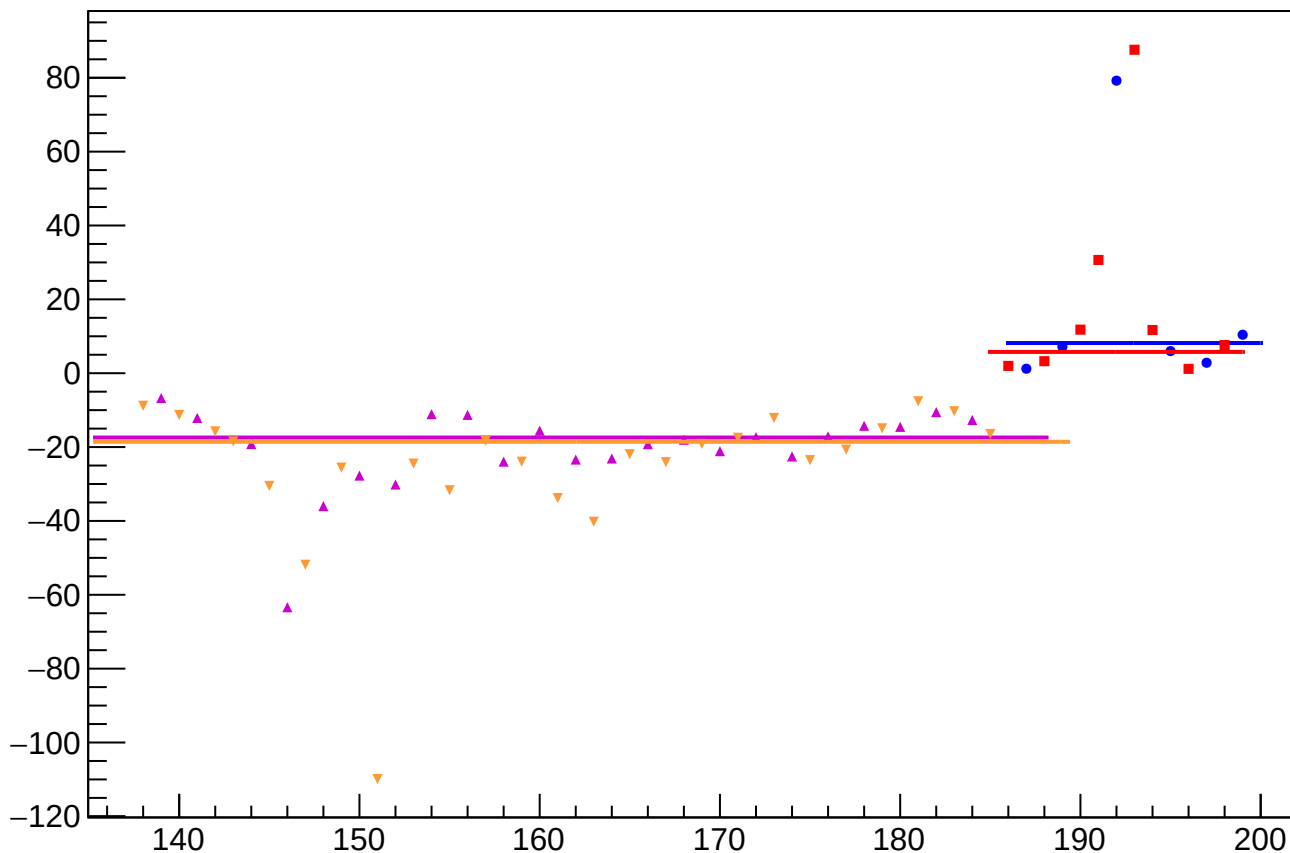
Right: 0.255+/-0.002 χ^2/NDF : 22580.4/49

In: 0.127+/-0.001 χ^2/NDF : 17336.5/45

Out: 0.149+/-0.001 χ^2/NDF : 17704.5/51

All: 0.137+/-0.001 χ^2/NDF : 35160.6/97

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: 5.768 ± 0.075 $\chi^2/\text{NDF}: 24146.6/7$

Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$

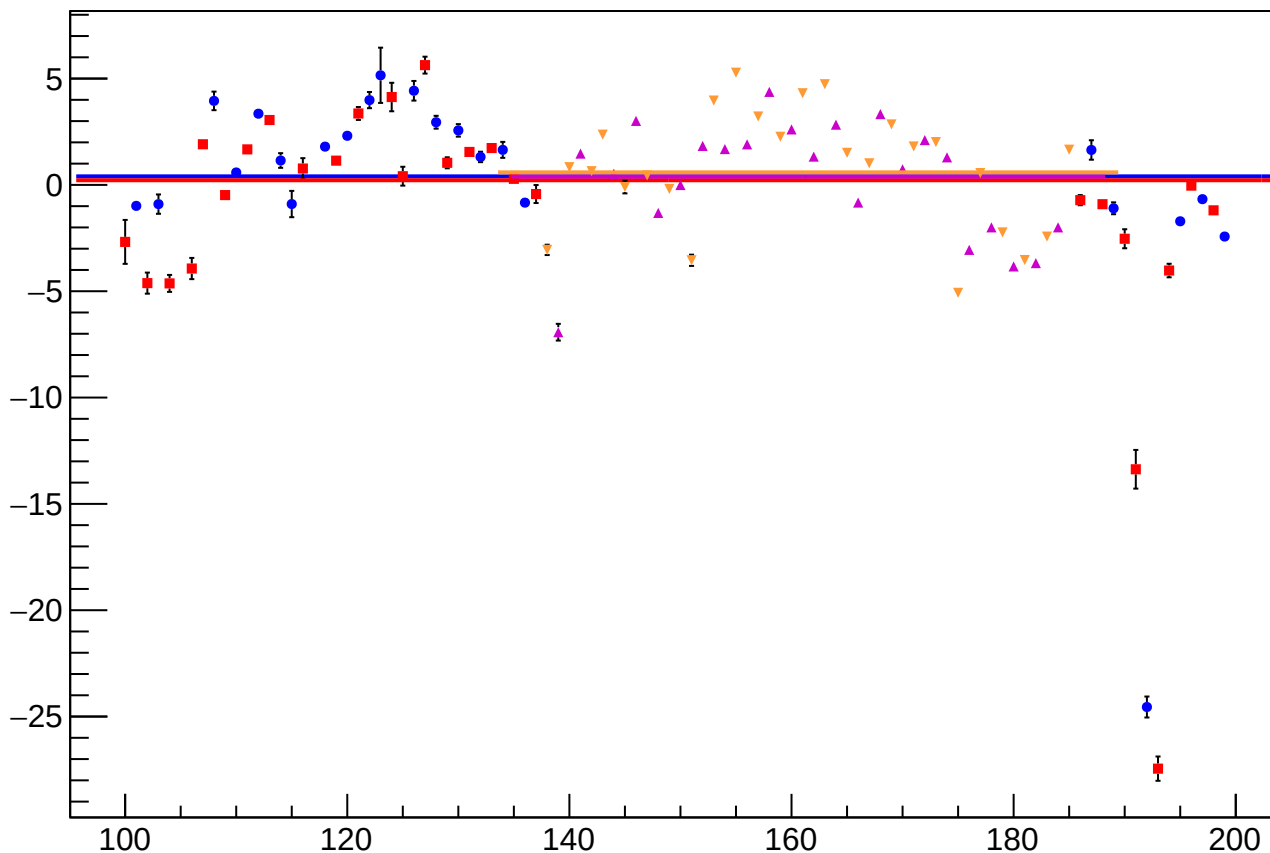
Right: 6.740 ± 0.058 $\chi^2/\text{NDF}: 48333.7/13$

In: -13.411 ± 0.036 $\chi^2/\text{NDF}: 133591.9/28$

Out: -13.162 ± 0.035 $\chi^2/\text{NDF}: 192332.3/32$

All: -13.284 ± 0.025 $\chi^2/\text{NDF}: 325948.6/61$

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: 0.218 $\pm$ 0.050 χ^2 /NDF: 4024.4/26

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

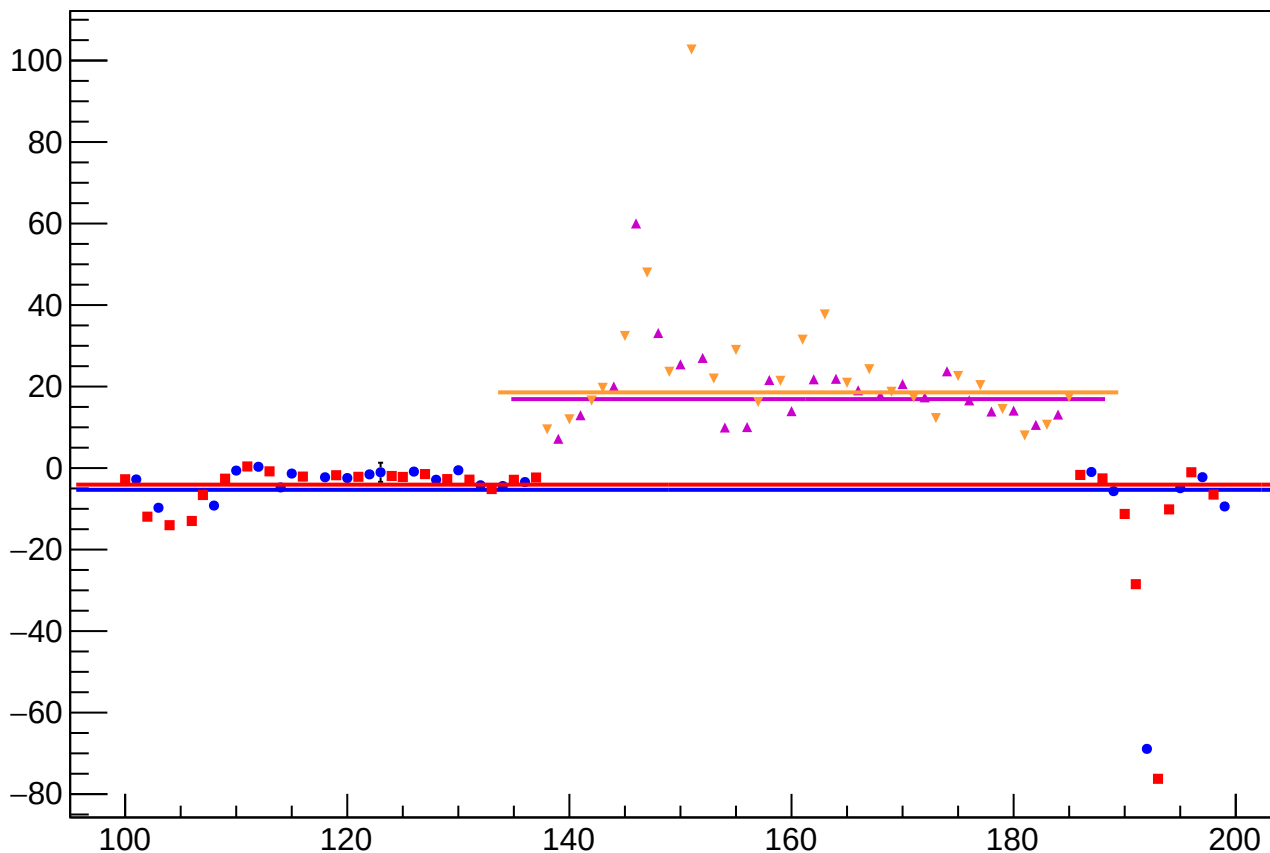
Right: 0.303 $\pm$ 0.037 χ^2 /NDF: 7780.2/49

In: 0.396 $\pm$ 0.027 χ^2 /NDF: 9809.5/45

Out: 0.478 $\pm$ 0.028 χ^2 /NDF: 10858.8/51

All: 0.436 $\pm$ 0.019 χ^2 /NDF: 20672.7/97

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: -4.062 ± 0.053 $\chi^2/\text{NDF}: 25606.3/26$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

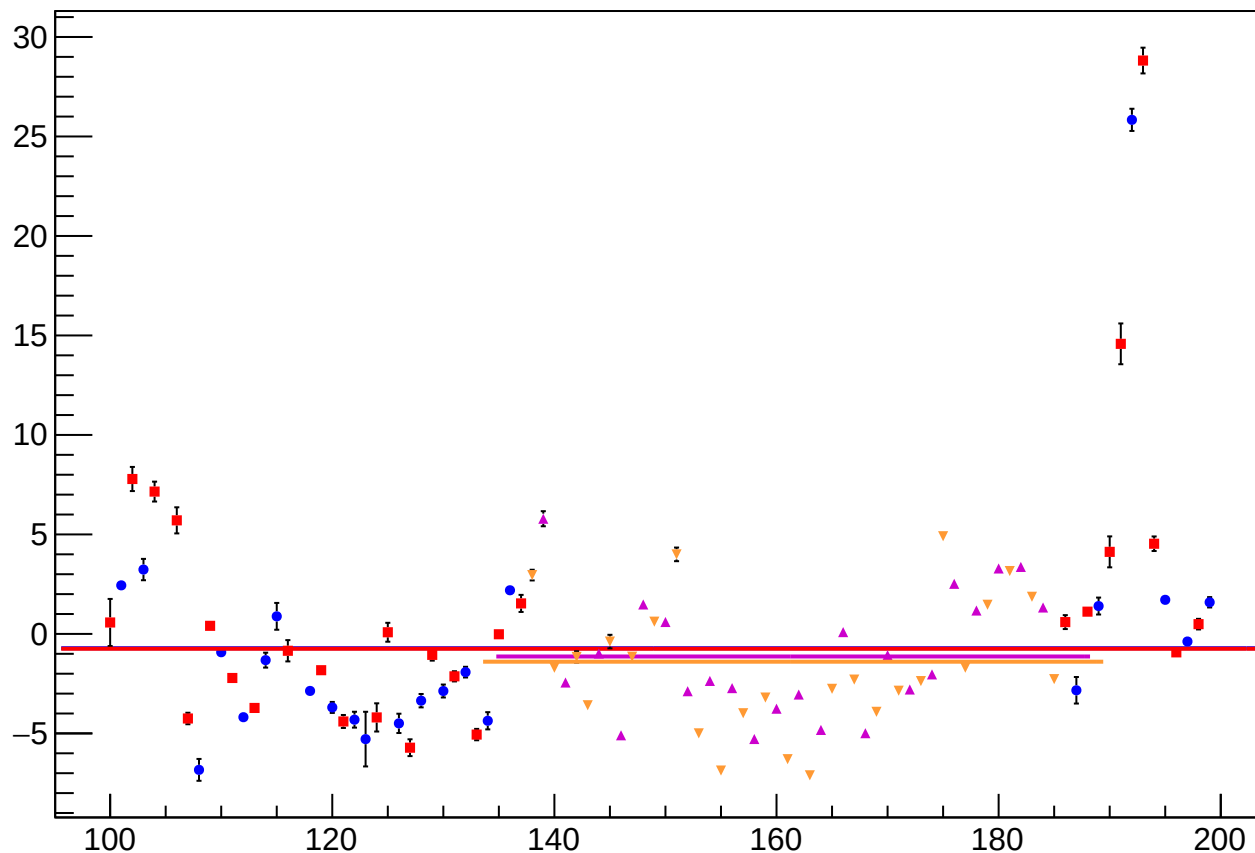
Right: -4.580 ± 0.041 $\chi^2/\text{NDF}: 51394.9/49$

In: 10.923 ± 0.033 $\chi^2/\text{NDF}: 153844.2/45$

Out: 10.314 ± 0.032 $\chi^2/\text{NDF}: 216975.6/51$

All: 10.608 ± 0.023 $\chi^2/\text{NDF}: 370993.9/97$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

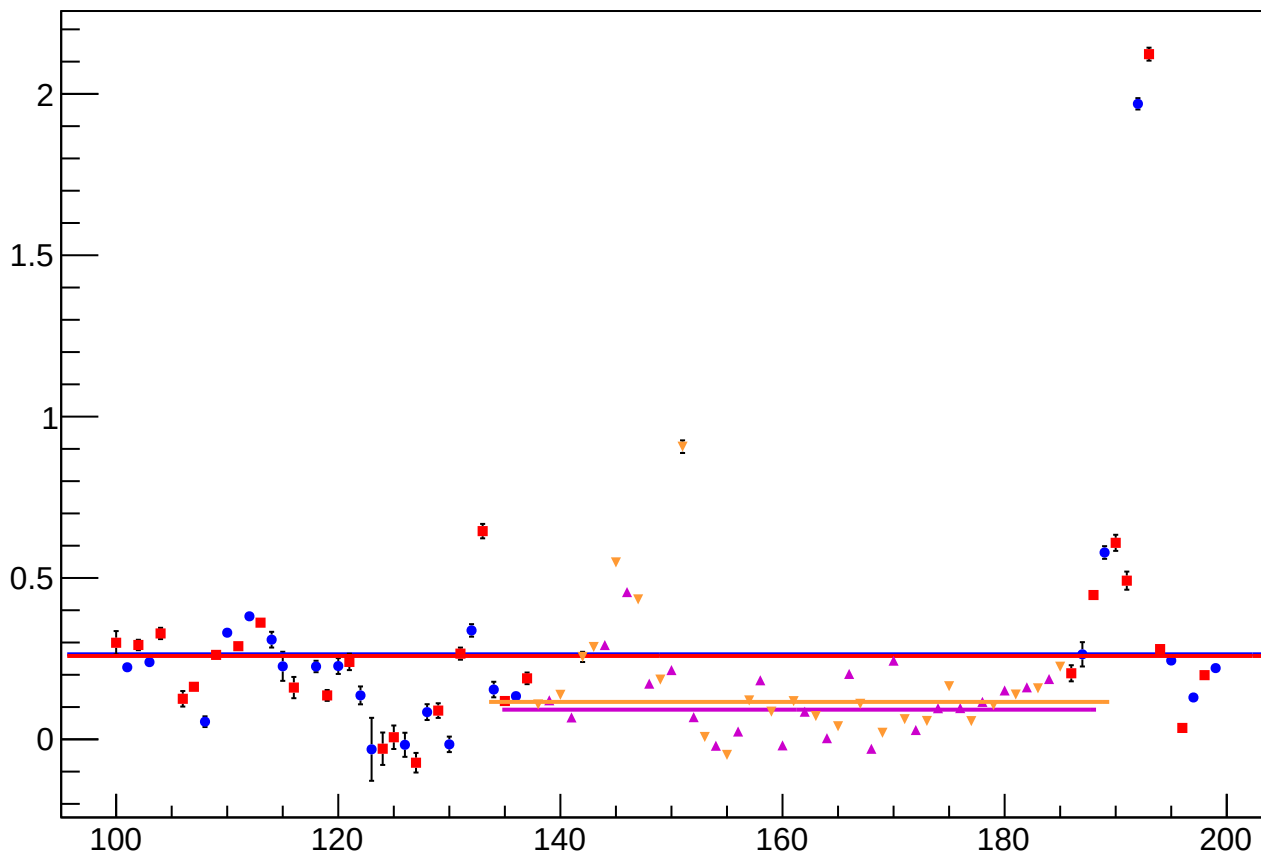


Right In: -0.720 ± 0.064 $\chi^2/\text{NDF}: 3842.2/22$
 Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$
 Right Out: -0.745 ± 0.059 $\chi^2/\text{NDF}: 4267.4/26$
 Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$
 Right: -0.733 ± 0.043 $\chi^2/\text{NDF}: 8109.7/49$
 In: -1.037 ± 0.031 $\chi^2/\text{NDF}: 10472.5/45$
 Out: -1.215 ± 0.031 $\chi^2/\text{NDF}: 12005.8/51$

All: -1.124 ± 0.022 $\chi^2/\text{NDF}: 22494.6/97$

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: 0.258 $\pm$ 0.003 χ^2 /NDF: 11059.5/26

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

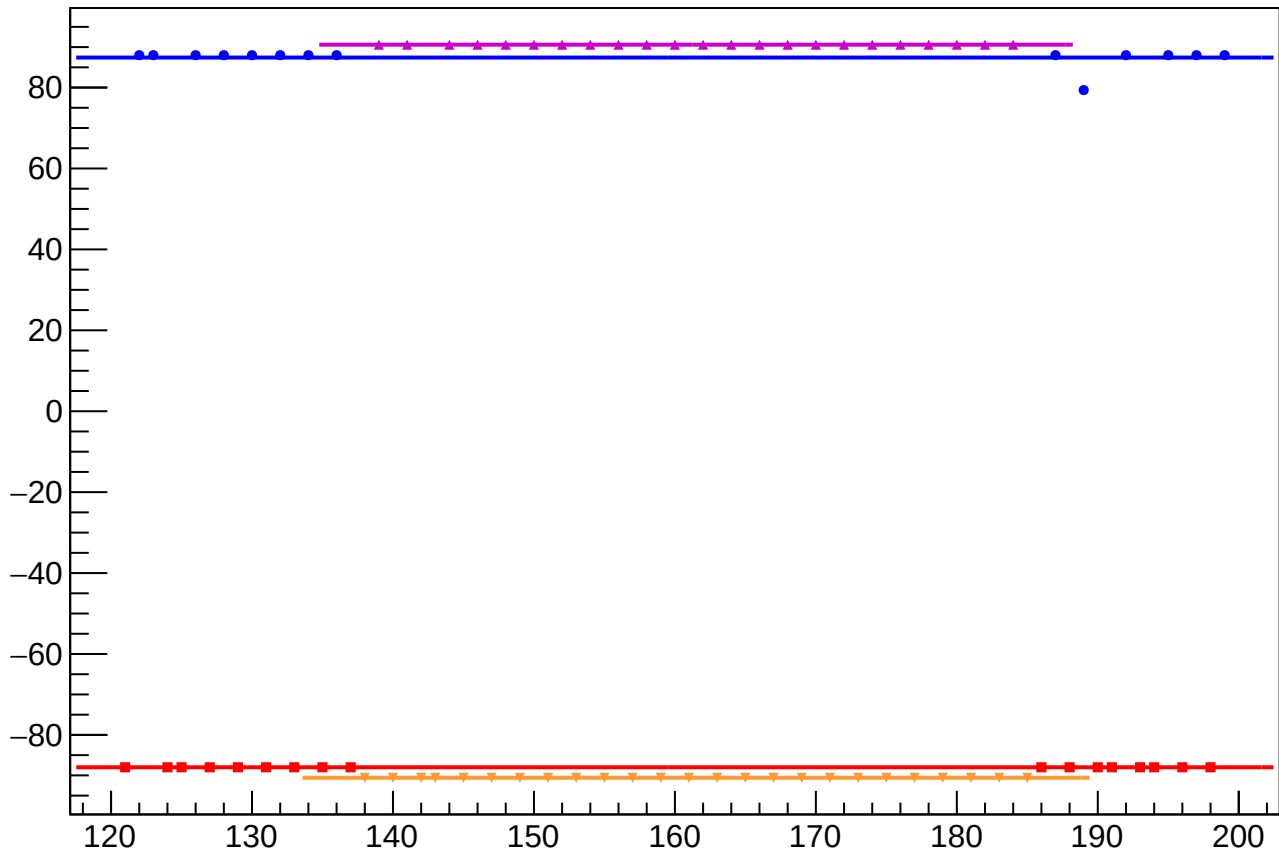
Right: 0.261 $\pm$ 0.002 χ^2 /NDF: 21812.6/49

In: 0.129 $\pm$ 0.001 χ^2 /NDF:17007.0/45

Out: 0.151 $\pm$ 0.001 χ^2 /NDF:17371.5/51

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 34508.5/97

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.415+/-0.000

χ^2/NDF : 3538345360007657214568451874488320.0/13

Left: -2.410+/-0.000 χ^2/NDF : 30521213250005045

Right: -5.303+/-0.000 χ^2/NDF : 1221794187386325

Left Out: -90.599+/-0.000

χ^2/NDF : 6053403.0/24

In: 89.666+/-0.000 χ^2/NDF : 892175442776066829

Right Out: -88.001+/-0.000

χ^2/NDF : 591910.7/16

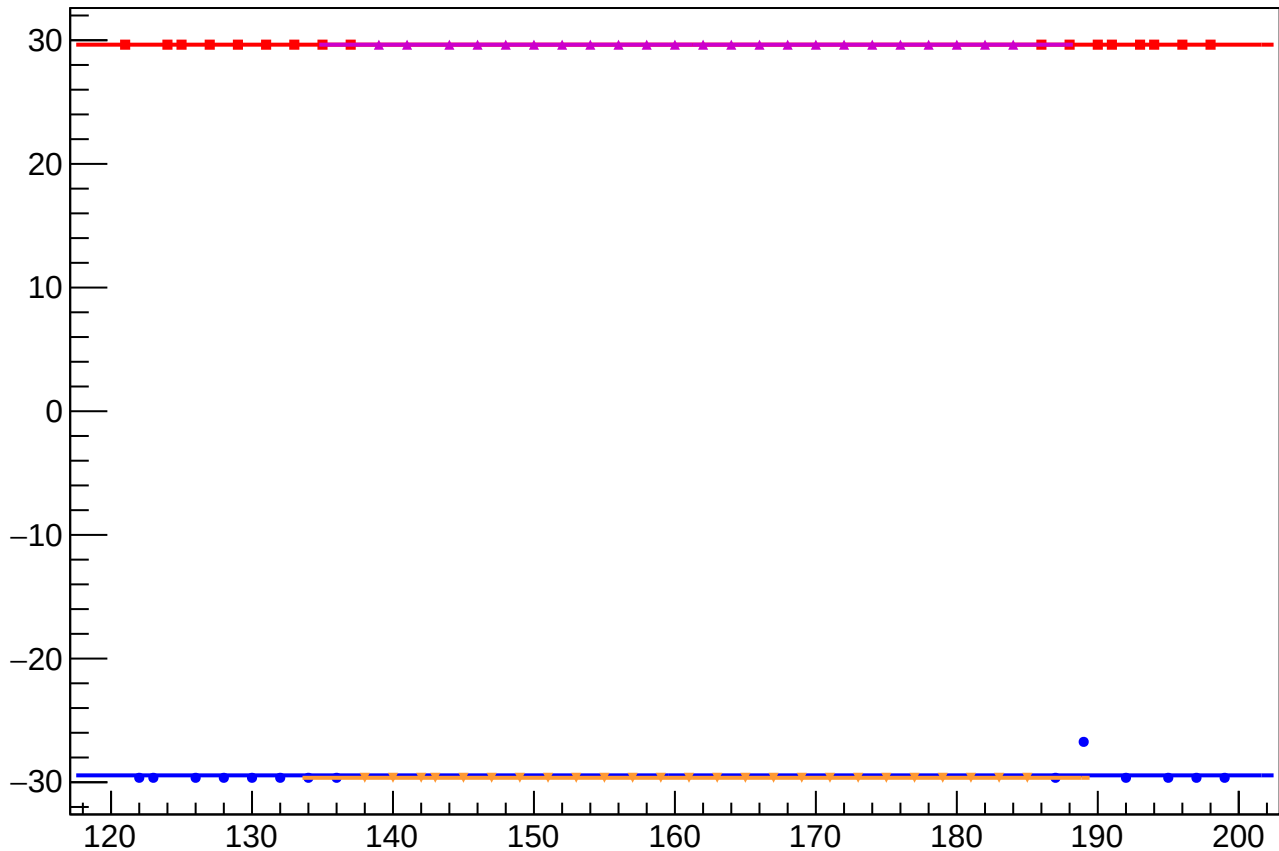
Out: -89.804+/-0.000 χ^2/NDF : 3946151988214443

Left In: 90.599+/-0.000

χ^2/NDF : 5932436.0/22

All: -3.278+/-0.000 χ^2/NDF : 4274848949723

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.443 ± 0.000

Left Out: -29.641 ± 0.000

Right Out: 29.641 ± 0.000

Left In: 29.641 ± 0.000

$\chi^2/\text{NDF}: 401425483160399233181062189285376.0/13$

$\chi^2/\text{NDF}: 654199.2/24$

$\chi^2/\text{NDF}: 1159234.3/16$

$\chi^2/\text{NDF}: 511825.6/22$

Left: -0.789 ± 0.000 $\chi^2/\text{NDF}: 32668496095314519$

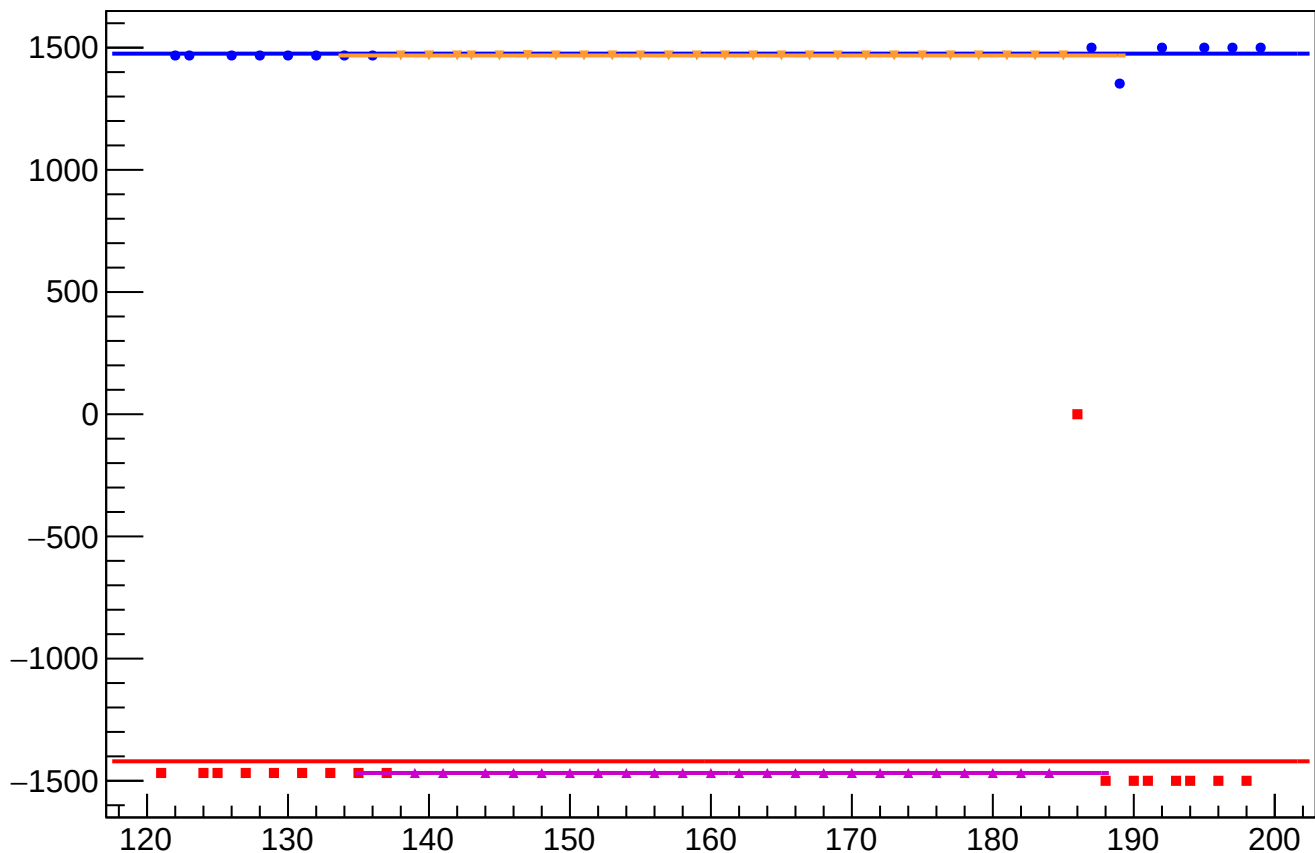
Right: 1.786 ± 0.000 $\chi^2/\text{NDF}: 13861262033310244$

In: 12.321 ± 0.000 $\chi^2/\text{NDF}: 185359161207802554$

Out: -11.503 ± 0.000 $\chi^2/\text{NDF}: 2053685910940334$

All: -0.017 ± 0.000 $\chi^2/\text{NDF}: 4660371262586$

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1475.560+/-0.000

χ^2/NDF : 1001920188265134545474508880540073984.0/13

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1420.250+/-0.000

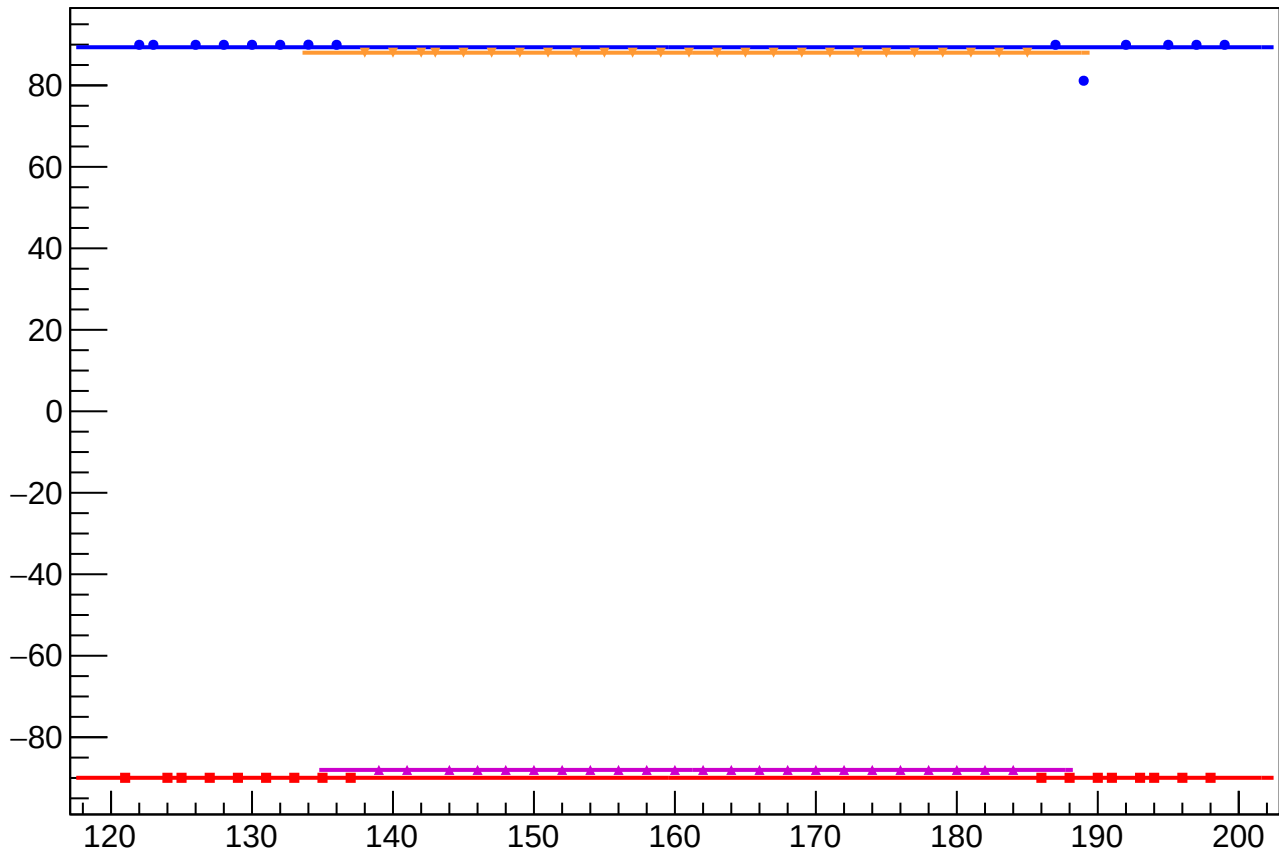
χ^2/NDF : 80468728696404475289091073669672730624.0/16

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

Left: 39.085+/-0.000 χ^2/NDF : 80133946076775322.0/13
 Right: -55.056+/-0.000 χ^2/NDF : 341018197163340.0/13
 In: -605.149+/-0.000 χ^2/NDF : 4600633806993894.0/13
 Out: 584.346+/-0.000 χ^2/NDF : 4955538569574215.0/13
 All: 10.864+/-0.000 χ^2/NDF : 1143346242305.0/13

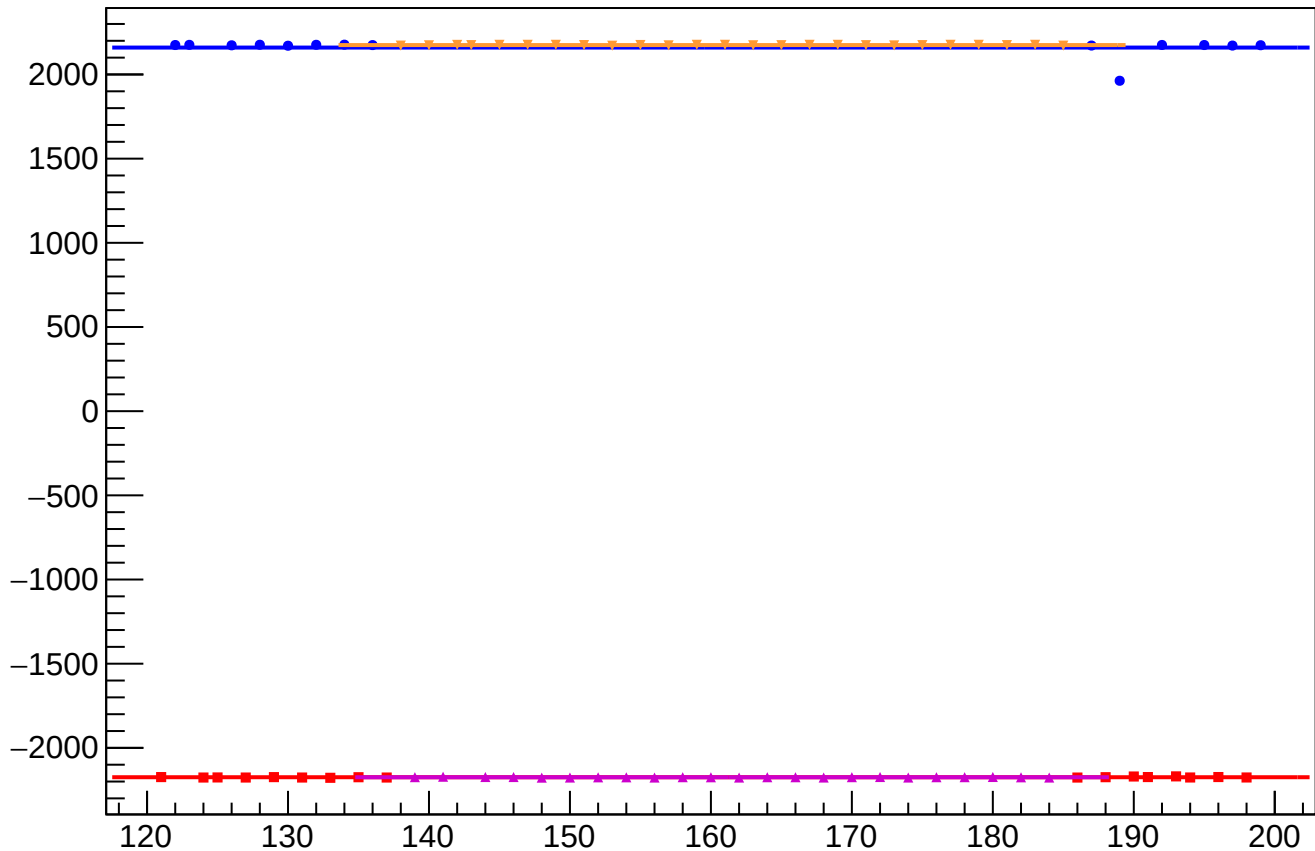
Phi_FG_mean vs Slug, Sign Corrected



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 : 2654611.6/16
 Left In: -88.021+/-0.000 χ^2/NDF : 6084099.2/22

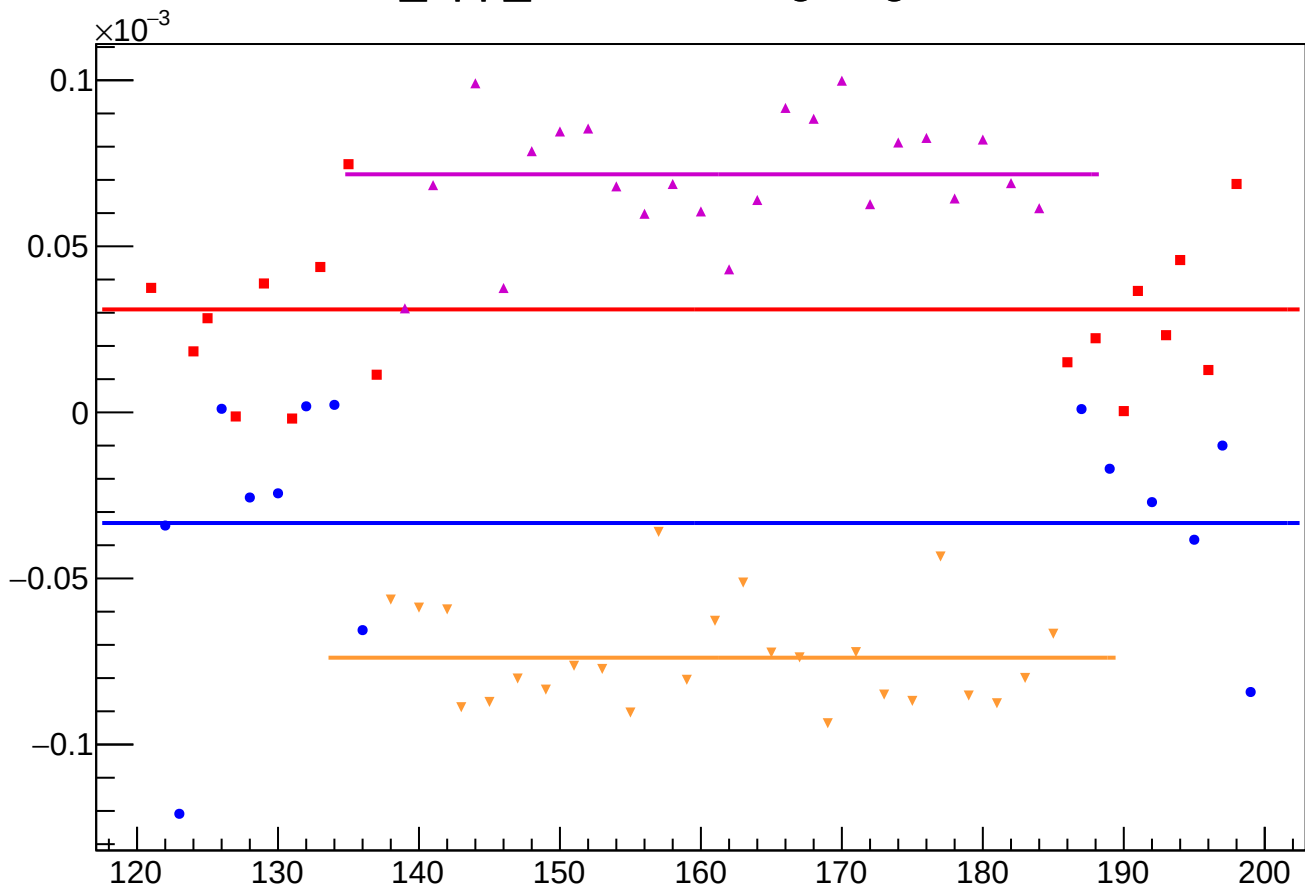
Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978
 Right: -5.421+/-0.000 χ^2/NDF : 1276798544835784
 In: -36.025+/-0.000 χ^2/NDF : 16706846386632558
 Out: 33.566+/-0.000 χ^2/NDF : 18511407193636597
 All: 0.015+/-0.000 χ^2/NDF : 41643779388240

HALLA_p_mean vs Slug, Sign Corrected



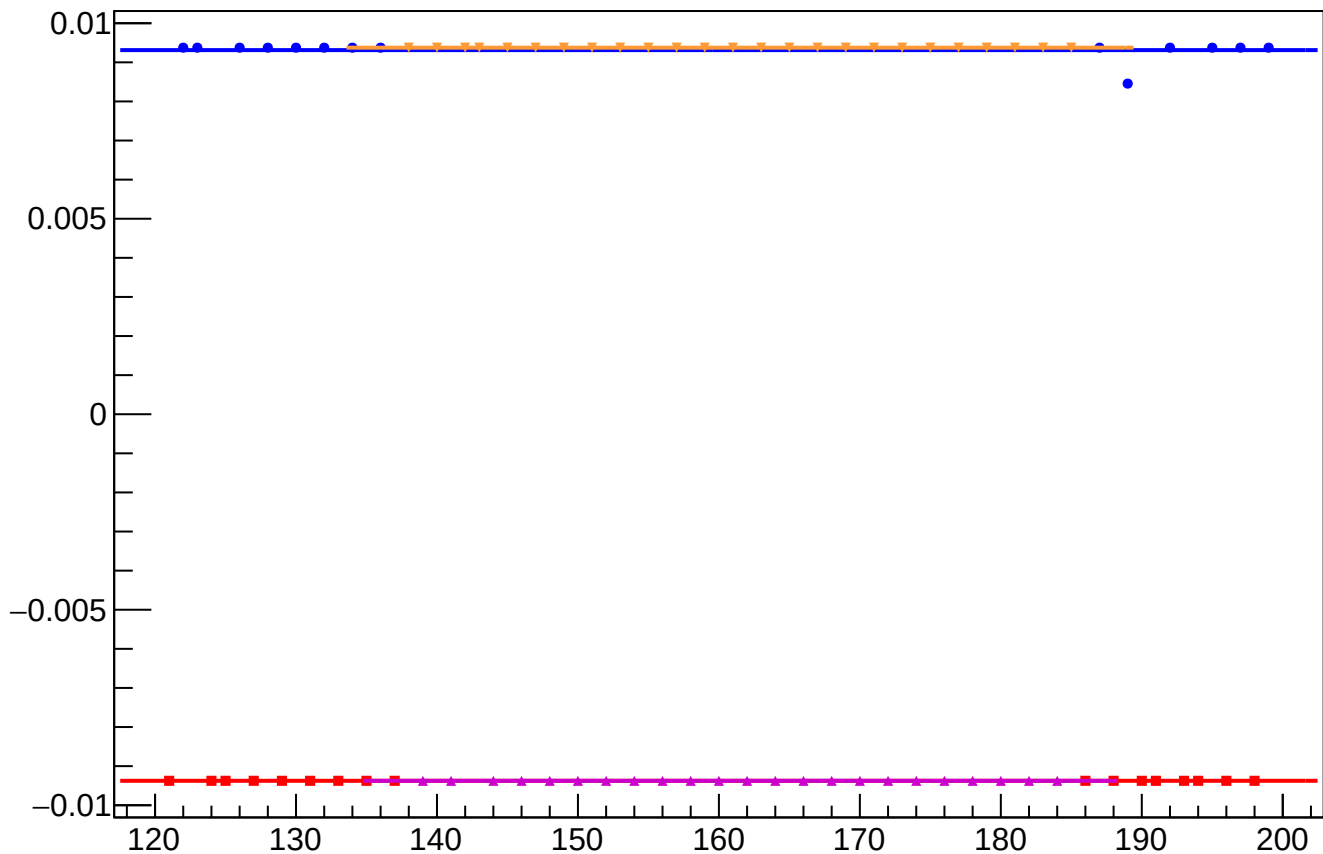
Right In: 2159.802+/-0.000 χ^2/NDF : 2129554453218760486399371524767219712.0/13
 Left Out: 2174.622+/-0.000 χ^2/NDF : 5110578135476093110874911595823104.0/24
 Right Out: -2174.391+/-0.000 χ^2/NDF : 4219419376483288334327743529353216.0/16
 Left In: -2174.539+/-0.000 χ^2/NDF : 3400742562425168967494665391570944.0/22
 All: 1.244+/-0.000 χ^2/NDF : 25082195161517

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000	χ^2/NDF : 563830598887660087934976.0/13	Left: -0.000+/-0.000	χ^2/NDF : 20702696564433151
Left Out: -0.000+/-0.000	χ^2/NDF : 450400934180541069000704.0/24	Right: 0.000+/-0.000	χ^2/NDF : 26259782602748076
Right Out: 0.000+/-0.000	χ^2/NDF : 420340607860782078623744.0/16	In: 0.000+/-0.000	χ^2/NDF : 6977589587310798415
Left In: 0.000+/-0.000	χ^2/NDF : 562166279020739416817664.0/22	Out: -0.000+/-0.000	χ^2/NDF : 72964930132369617
		All: -0.000+/-0.000	χ^2/NDF : 2334401564338

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 : 0.1/16

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 : 1386654684384344

In: -0.004 +/- 0.000

χ^2/NDF : 185429832121116367

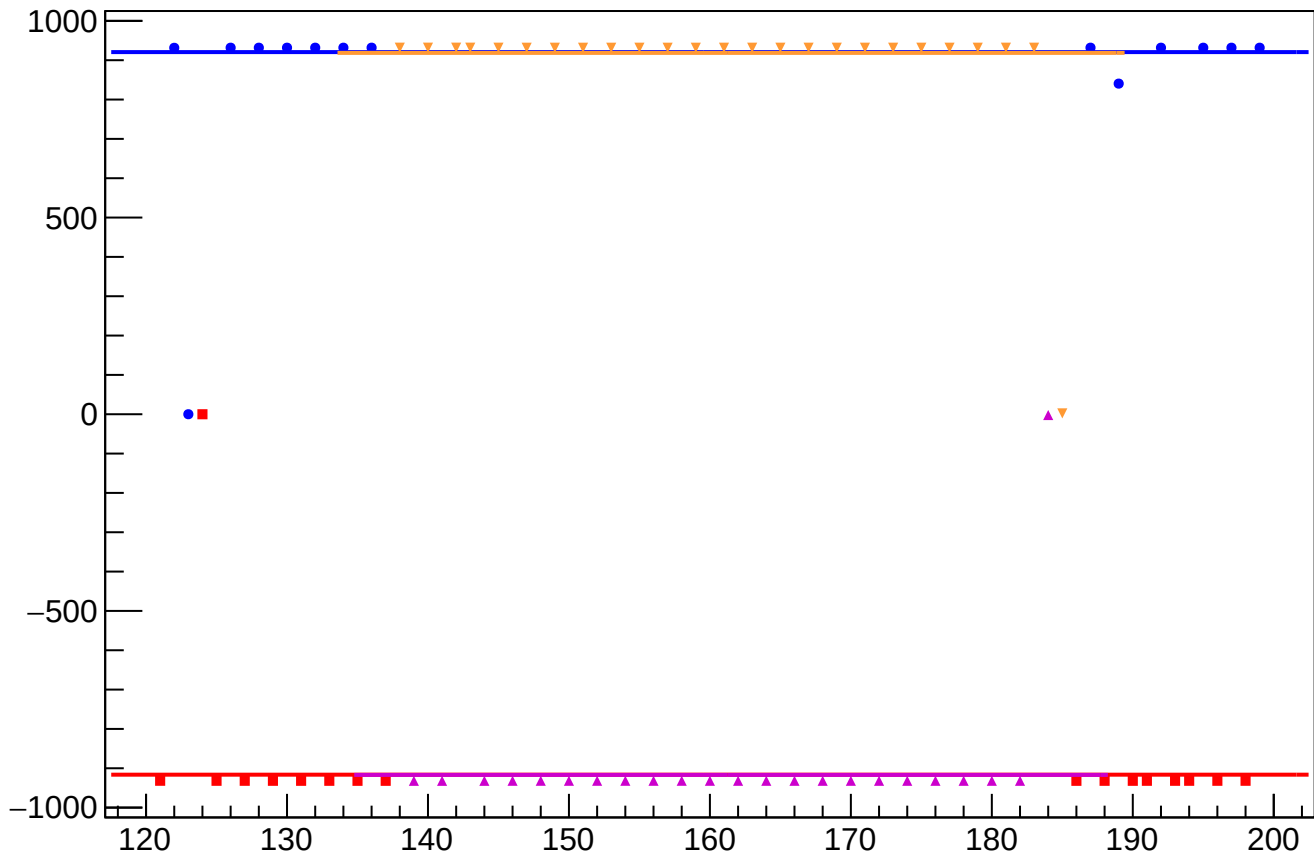
Out: 0.004 +/- 0.000

χ^2/NDF : 205446890897528535

All: 0.000 +/- 0.000

χ^2/NDF : 46621480978467

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: -916.316+/-0.000

χ^2/NDF : 11952804178493698952411340353008828416.0/16

Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

Left: 25.295+/-0.000 χ^2/NDF : 31796385721824018

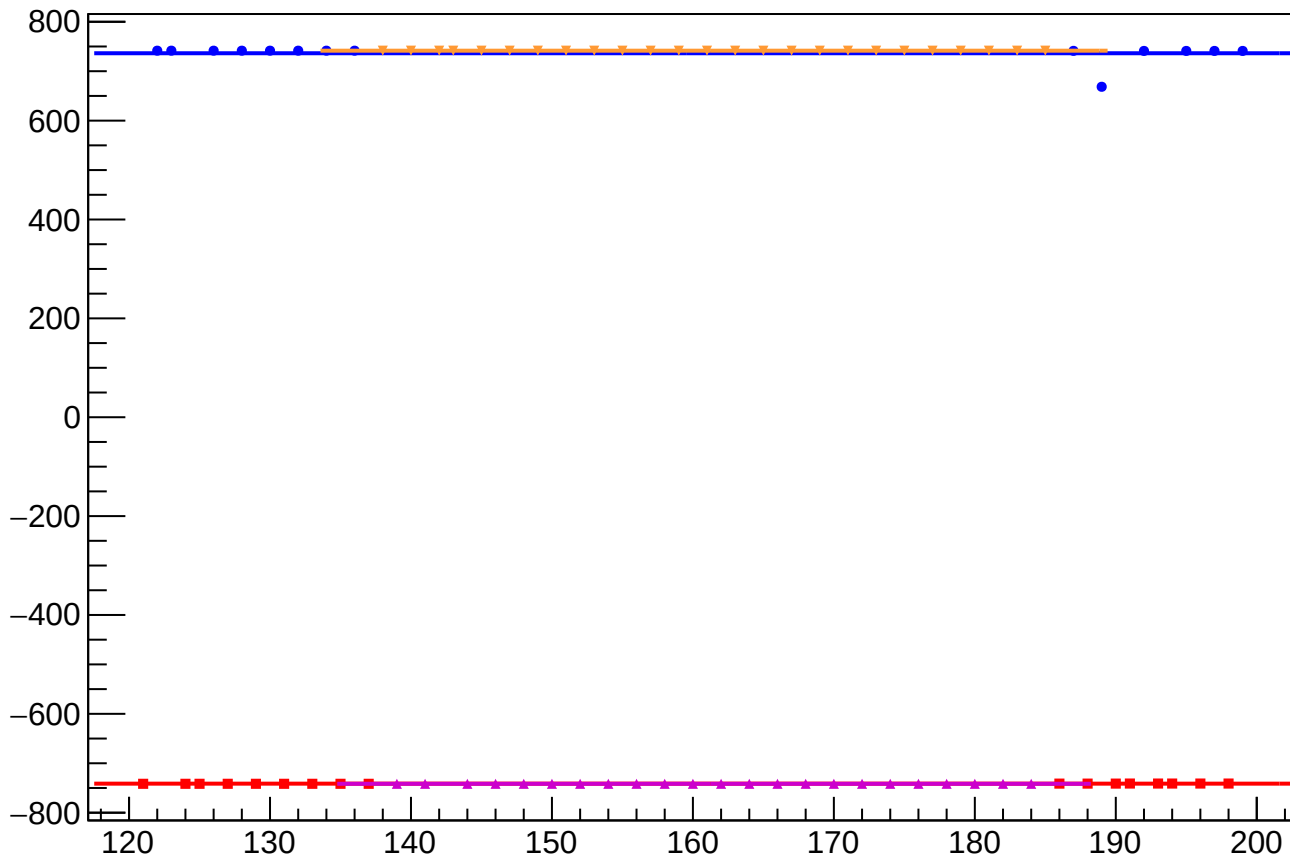
Right: -50.313+/-0.000 χ^2/NDF : 135520699057941

In: -378.258+/-0.000 χ^2/NDF : 1820897111345526

Out: 357.222+/-0.000 χ^2/NDF : 2002617432707464

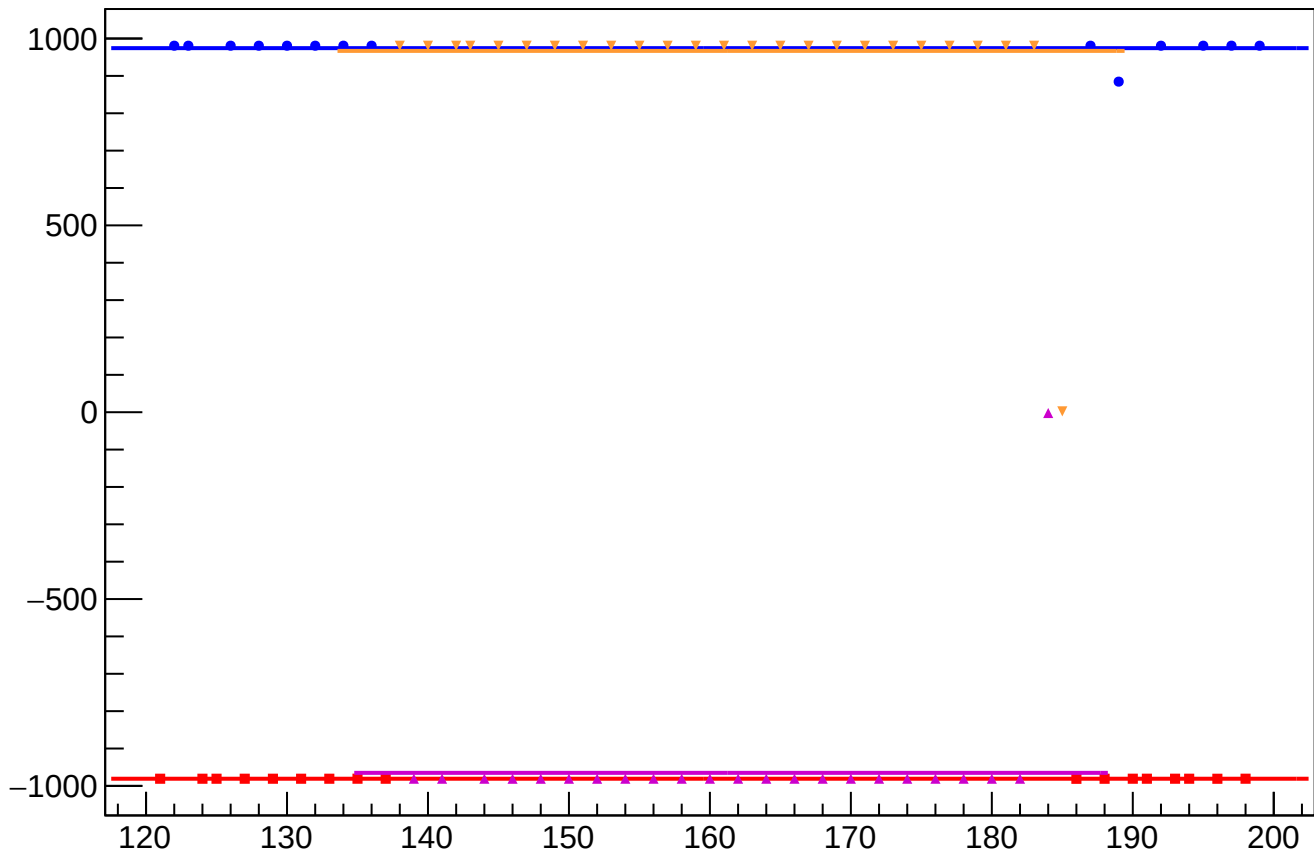
All: 2.630+/-0.000 χ^2/NDF : 45412221763269

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 736.330 ± 0.000 $\chi^2/\text{NDF}: 251782055934016423867229195384913920.0/13$
 Left Out: 741.513 ± 0.000 $\chi^2/\text{NDF}: 244782737401533731539808944128.0/24$
 Right Out: -741.242 ± 0.000 $\chi^2/\text{NDF}: 43721401327818391562583806050304.0/16$
 Left In: -741.512 ± 0.000 $\chi^2/\text{NDF}: 215375309108434607405602439168.0/22$
 All: 0.427 ± 0.000 $\chi^2/\text{NDF}: 29160163895489$

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: -980.836+/-0.000

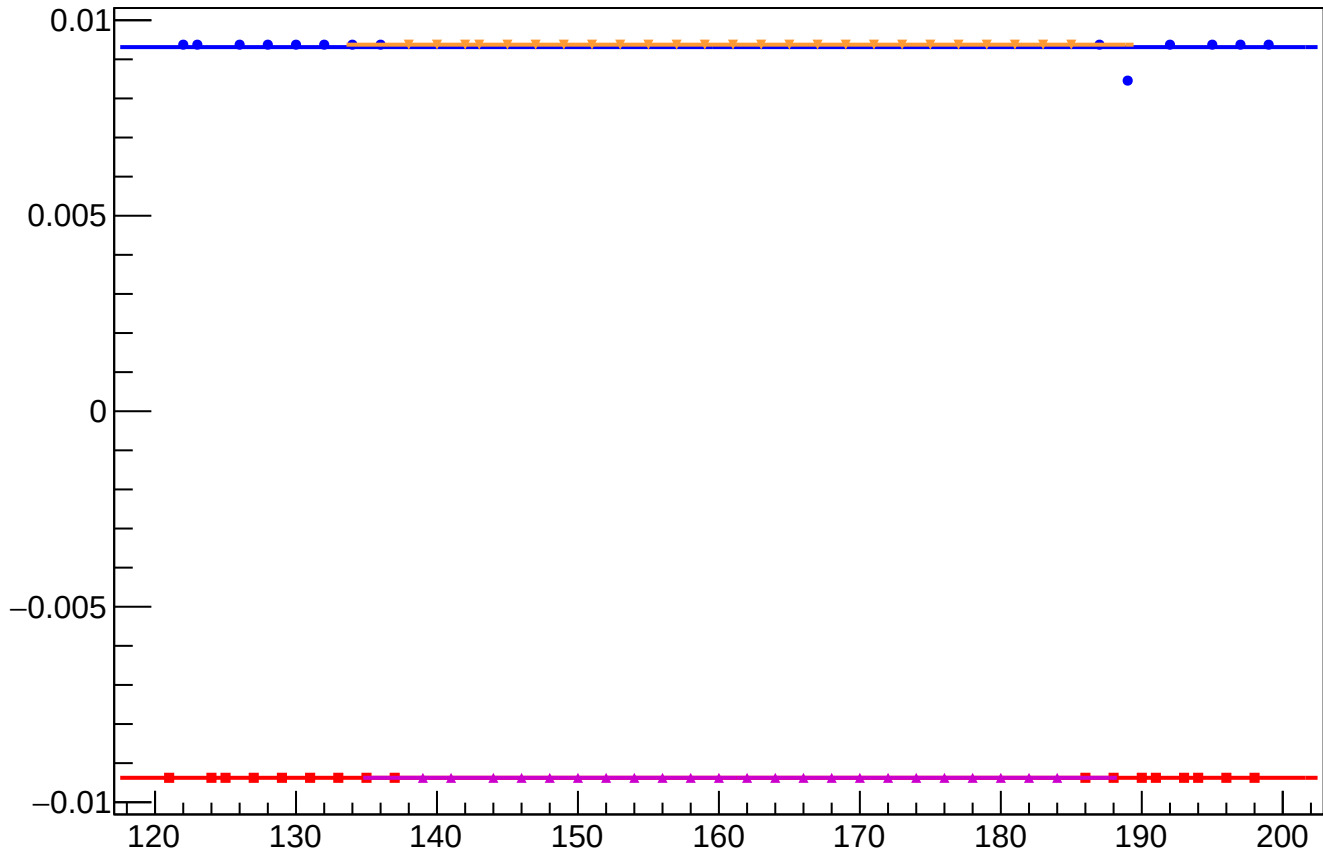
χ^2/NDF : 2724597511547742902541334085632.0/16

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 0.917+/-0.000 χ^2/NDF : 50487539818480

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40157853254483334458769408.0/13

Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718

Right: -0.001+/-0.000 χ^2/NDF : 1386654684384344

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.004+/-0.000 χ^2/NDF : 185429832121116367

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/16

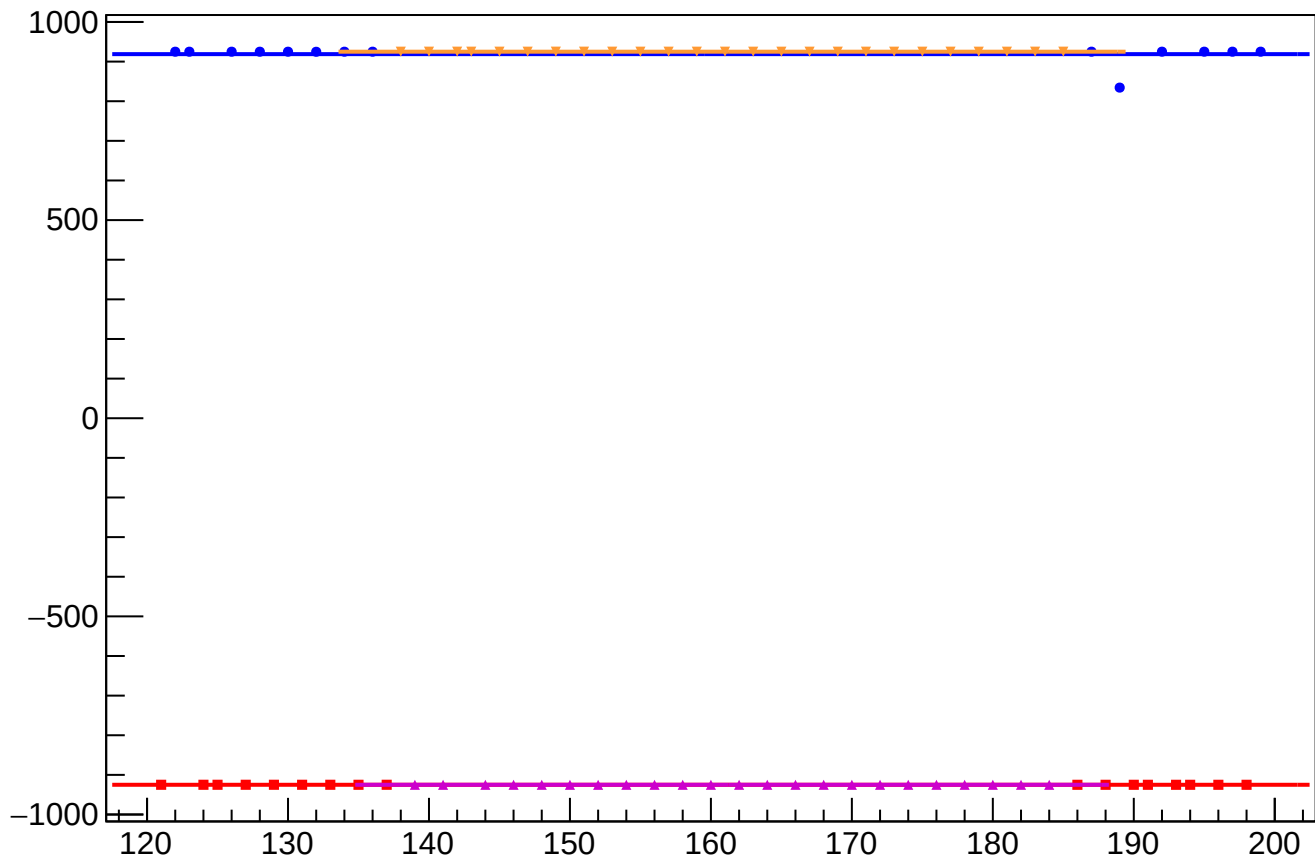
Out: 0.004+/-0.000 χ^2/NDF : 205446890897528535

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: 0.000+/-0.000 χ^2/NDF : 46621480978467

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: -924.994+/-0.000

χ^2/NDF : 770088727856434159191096033280.0/16

Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

Left: 24.610+/-0.000 χ^2/NDF : 31814082693920915

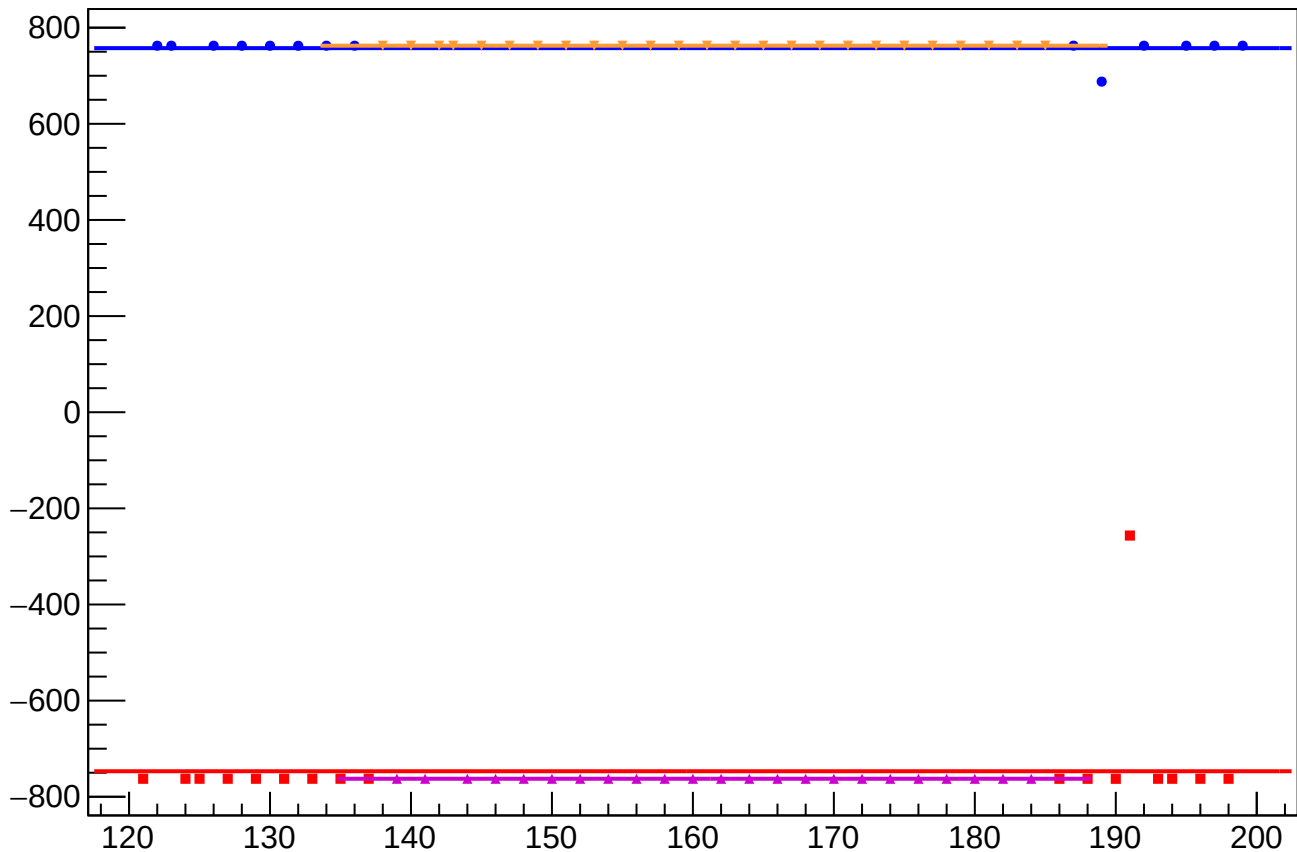
Right: -55.749+/-0.000 χ^2/NDF : 134988702434625

In: -384.507+/-0.000 χ^2/NDF : 1805110082436718

Out: 358.965+/-0.000 χ^2/NDF : 1999996876918400

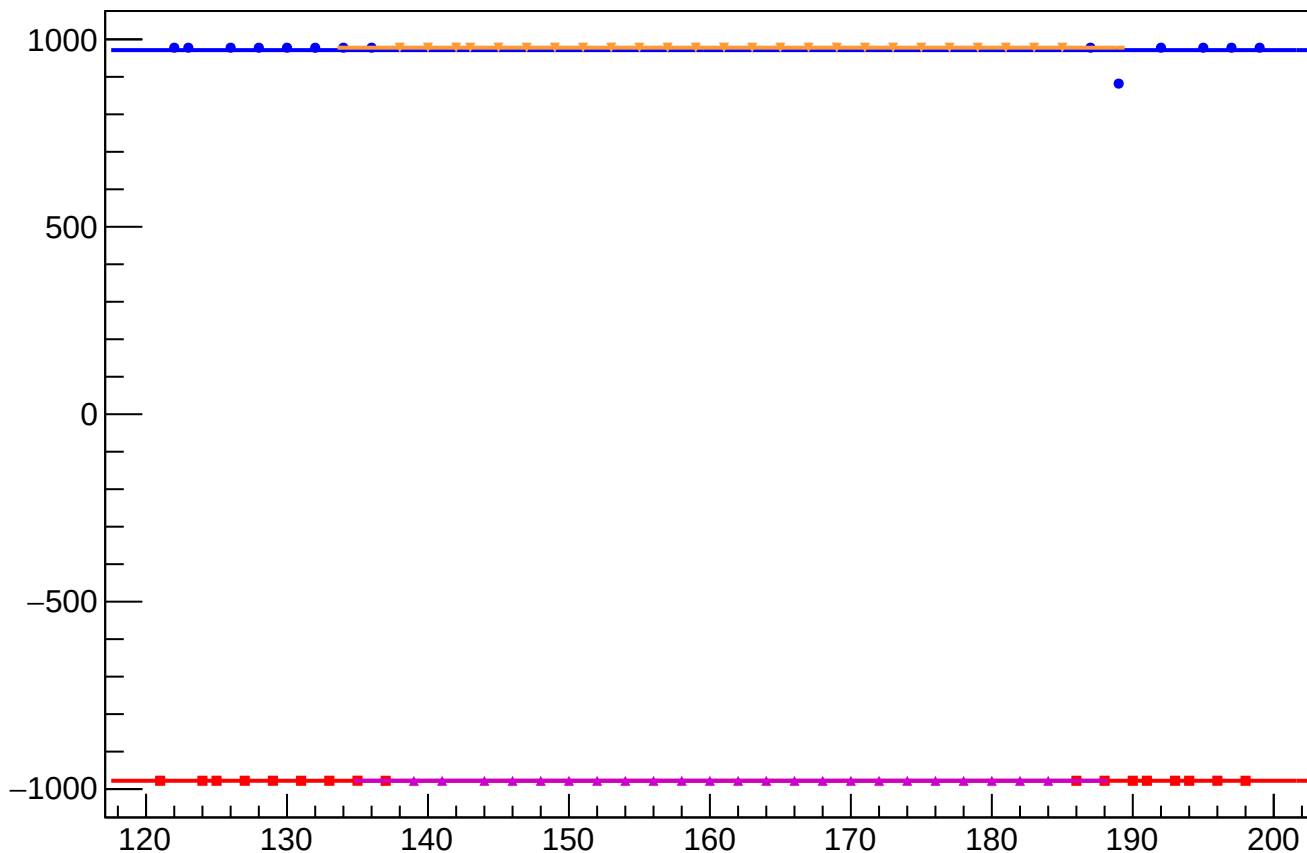
All: 0.520+/-0.000 χ^2/NDF : 45384984327396

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 757.435+/-0.000	χ^2/NDF : 265234076346117557753876802112061440.0/13	Left: 20.287+/-0.000	χ^2/NDF : 21619874128230354
Left Out: 762.518+/-0.000	χ^2/NDF : 731741258759628909874415403008.0/24	Right: -37.703+/-0.000	χ^2/NDF : 905031303352040
Right Out: -746.905+/-0.000	χ^2/NDF : 6450828659158880492406919905171996672.0/16	In: -316.974+/-0.000	χ^2/NDF : 1226688669745079
Left In: -762.519+/-0.000	χ^2/NDF : 629058355419214408155297480704.0/22	Out: 300.696+/-0.000	χ^2/NDF : 1337884163347006
	All: 2.903+/-0.000		χ^2/NDF : 30707697921184

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: -977.749+/-0.000

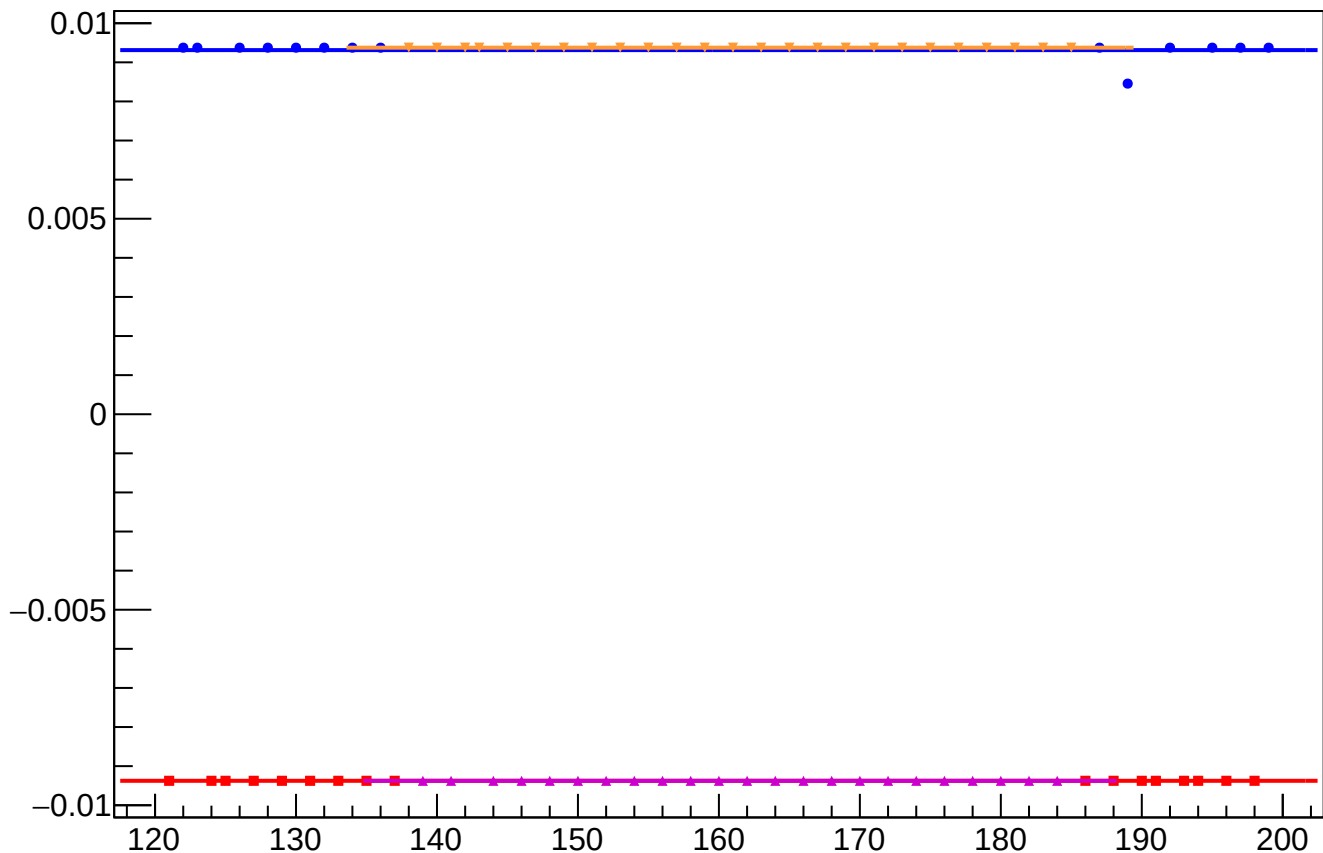
χ^2/NDF : 1714419588066728952551155171328.0/16

Left In: -977.735+/-0.000

χ^2/NDF : 976503887937607318263199432704.0/22

All: 0.554+/-0.000 χ^2/NDF : 50709694619114

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 : 0.1/16

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 : 1386654684384344

In: -0.004+/-0.000

χ^2/NDF : 185429832121116367

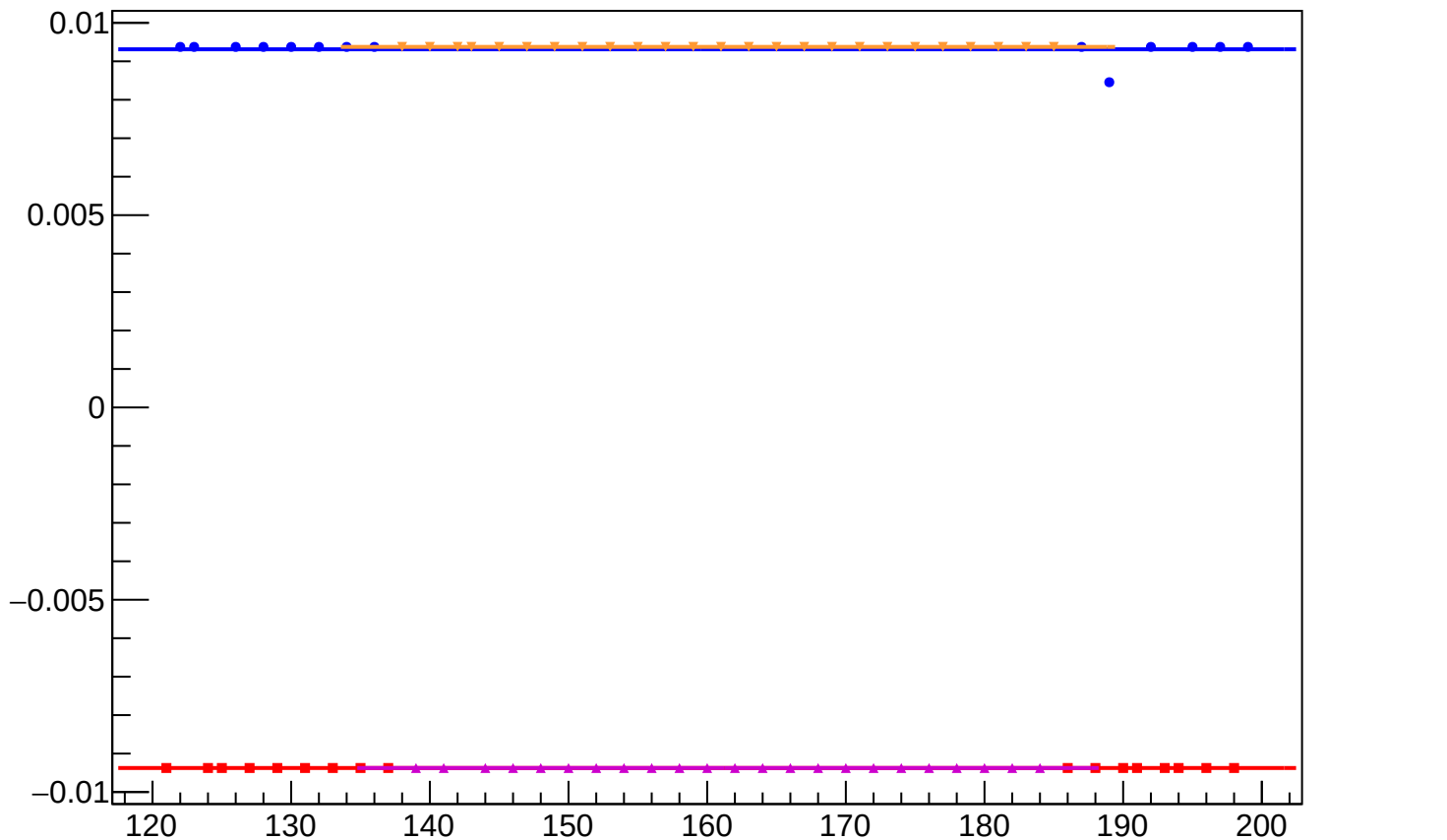
Out: 0.004+/-0.000

χ^2/NDF : 205446890897528535

All: 0.000+/-0.000

χ^2/NDF : 46621480978467

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 : 0.1/16

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 : 1386654684384344

In: -0.004+/-0.000

χ^2/NDF : 185429832121116367

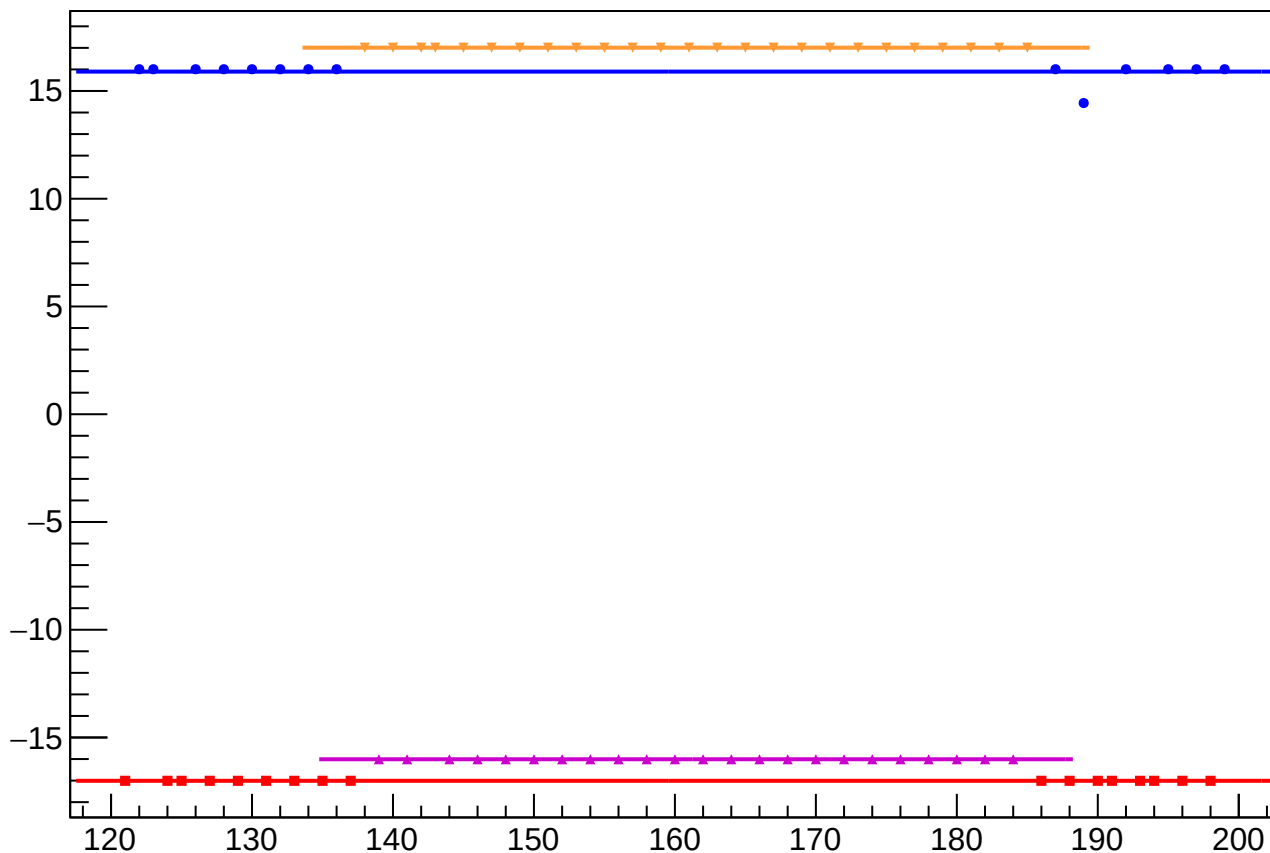
Out: 0.004+/-0.000

χ^2/NDF : 205446890897528535

All: 0.000+/-0.000

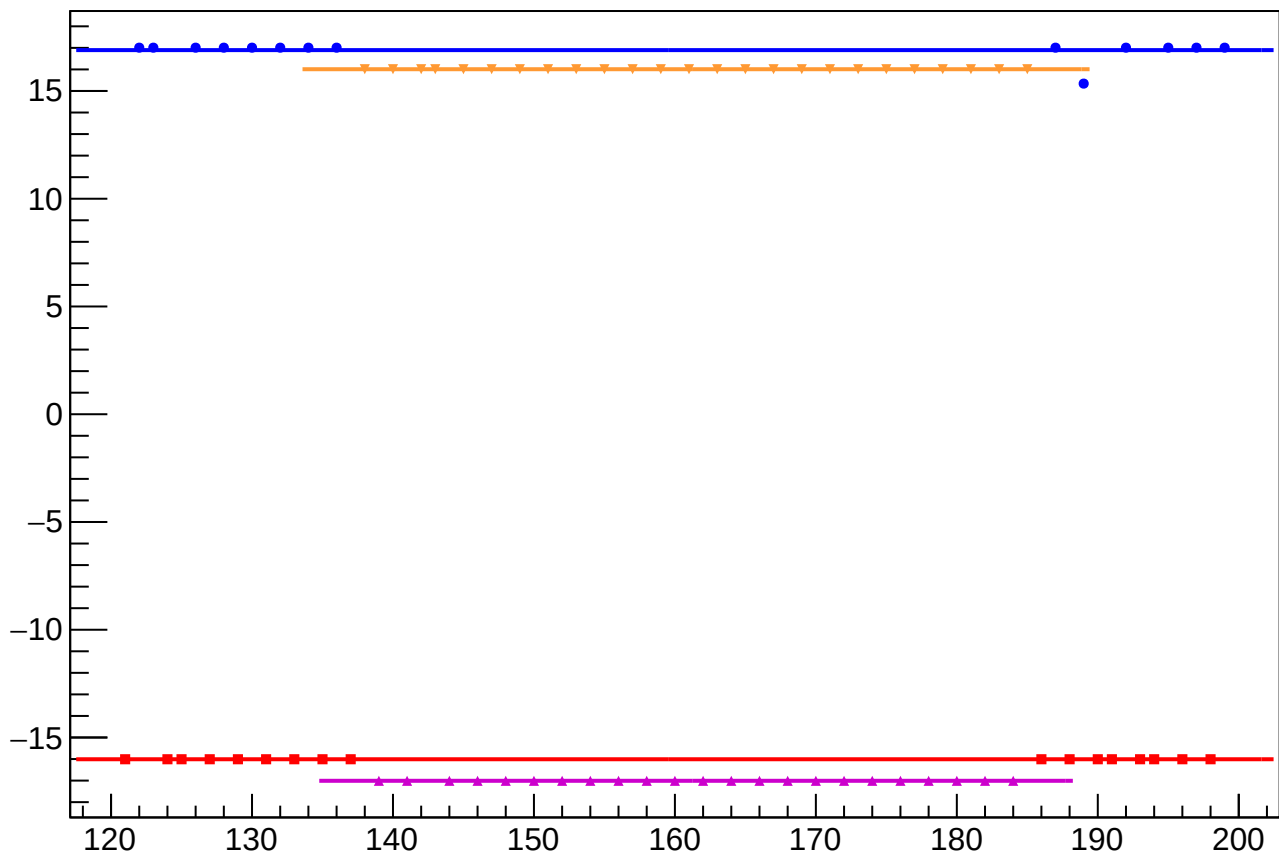
χ^2/NDF : 46621480978467

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



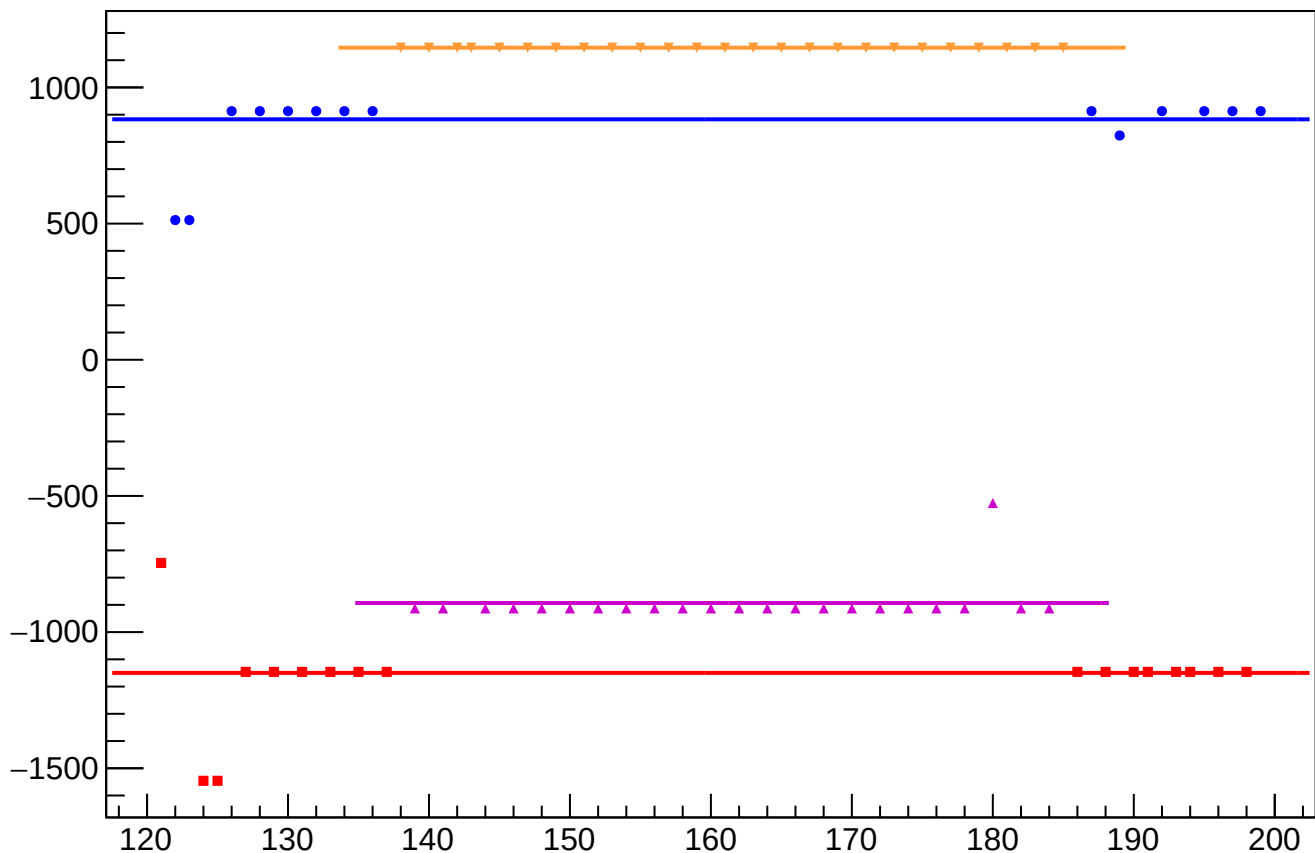
Right In: 15.899 $\pm$ 0.000 χ^2 /NDF: 116799363920405107476710731808768.0/13
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 12551226910925336908660736.0/16
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.145 $\pm$ 0.000 χ^2 /NDF: 13671368485528

IGL1I00OD16_16_mean vs Slug, Sign Corrected



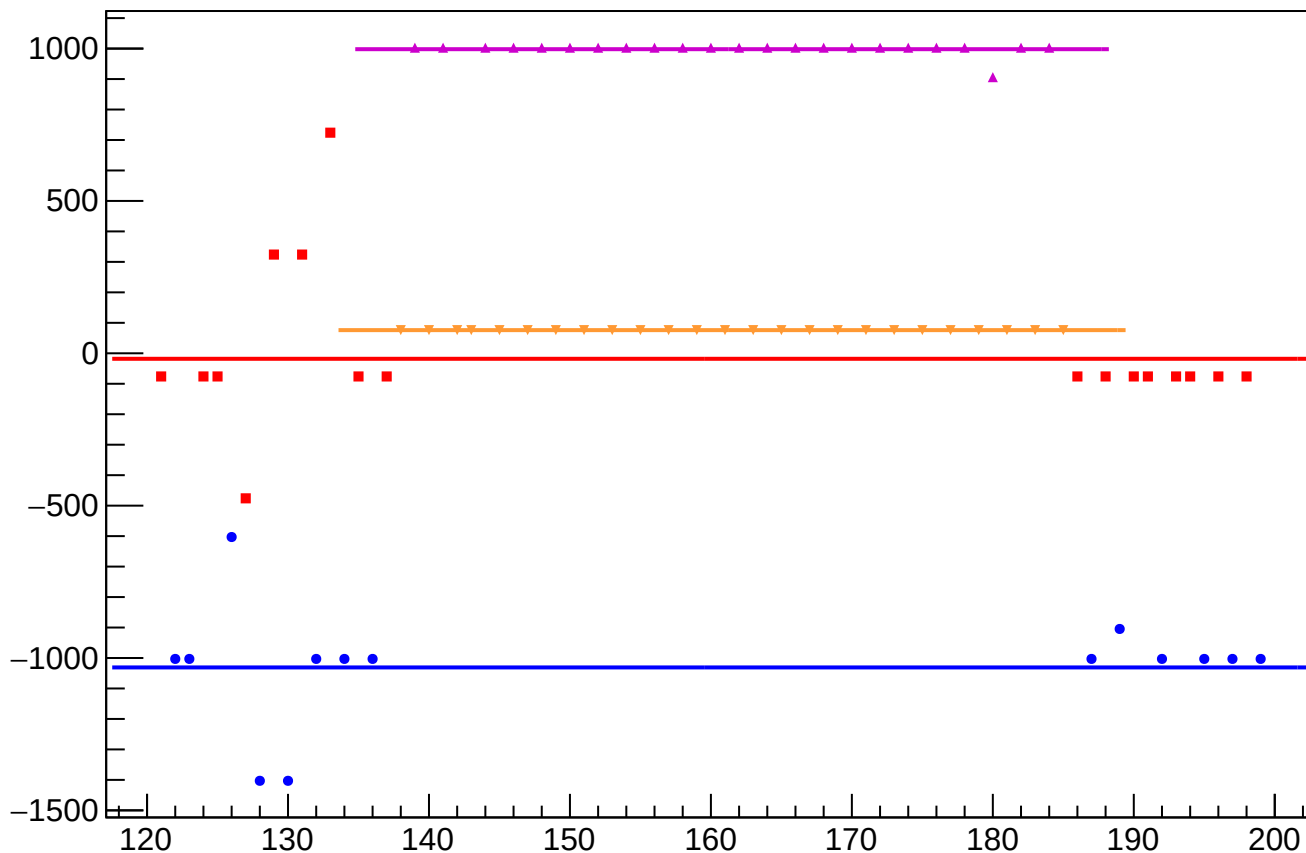
Right In: 16.896 $\pm$ 0.000	χ^2 /NDF: 132191839980310322447136424198144.0/13	Left: 0.042 $\pm$ 0.000	χ^2 /NDF: 99431233770062905
Left Out: 16.009 $\pm$ 0.000	χ^2 /NDF: 89740.8/24	Right: -0.496 $\pm$ 0.000	χ^2 /NDF: 4299390861544829
Right Out: -16.009 $\pm$ 0.000	χ^2 /NDF: 196584.1/16	In: -6.893 $\pm$ 0.000	χ^2 /NDF: 605874368826446095
Left In: -17.009 $\pm$ 0.000	χ^2 /NDF: 115033472633445654986752.0/22	Out: 6.127 $\pm$ 0.000	χ^2 /NDF: 596785359488808902
		All: -0.121 $\pm$ 0.000	χ^2 /NDF: 1424573618017

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 882.948+/-0.000 χ^2/NDF : 6930695119439194472263479656368308224.0/13
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1149.810+/-0.000 χ^2/NDF : 13748505263405370759247925289144025088.0/16
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 50.132+/-0.000 χ^2/NDF : 5672237381585

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: -18.053+/-0.000

χ^2/NDF : 44211382504876243542780007001058443264.0/16

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

All: 218.887+/-0.000 χ^2/NDF : 242686774123