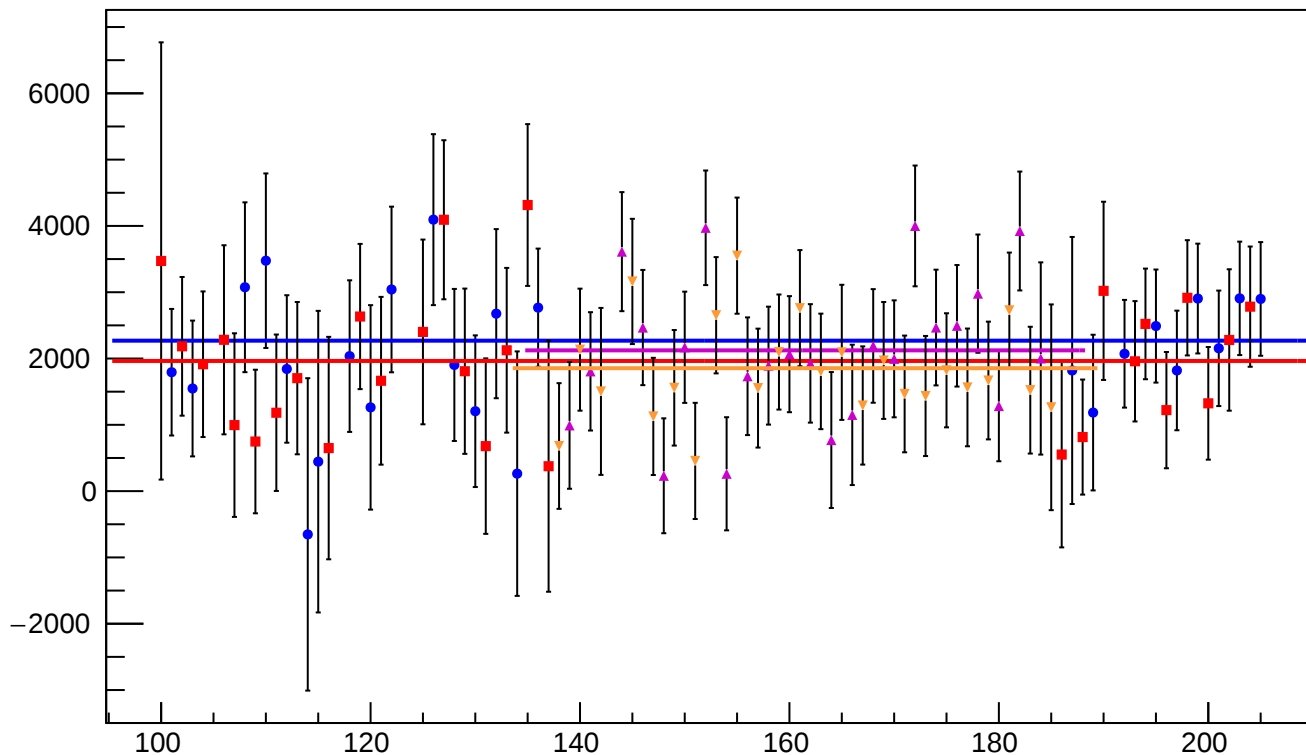


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2269.220+/-217.511

Left Out: 1854.267+/-187.405

Right Out: 1963.304+/-212.423

Left In: 2123.138+/-188.684

χ^2/NDF : 12.7/24

χ^2/NDF : 15.1/23

χ^2/NDF : 19.4/27

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2112.642+/-151.973

In: 2185.864+/-142.530

Out: 1901.990+/-140.532

All: 2041.923+/-100.070

χ^2/NDF : 48.1/46

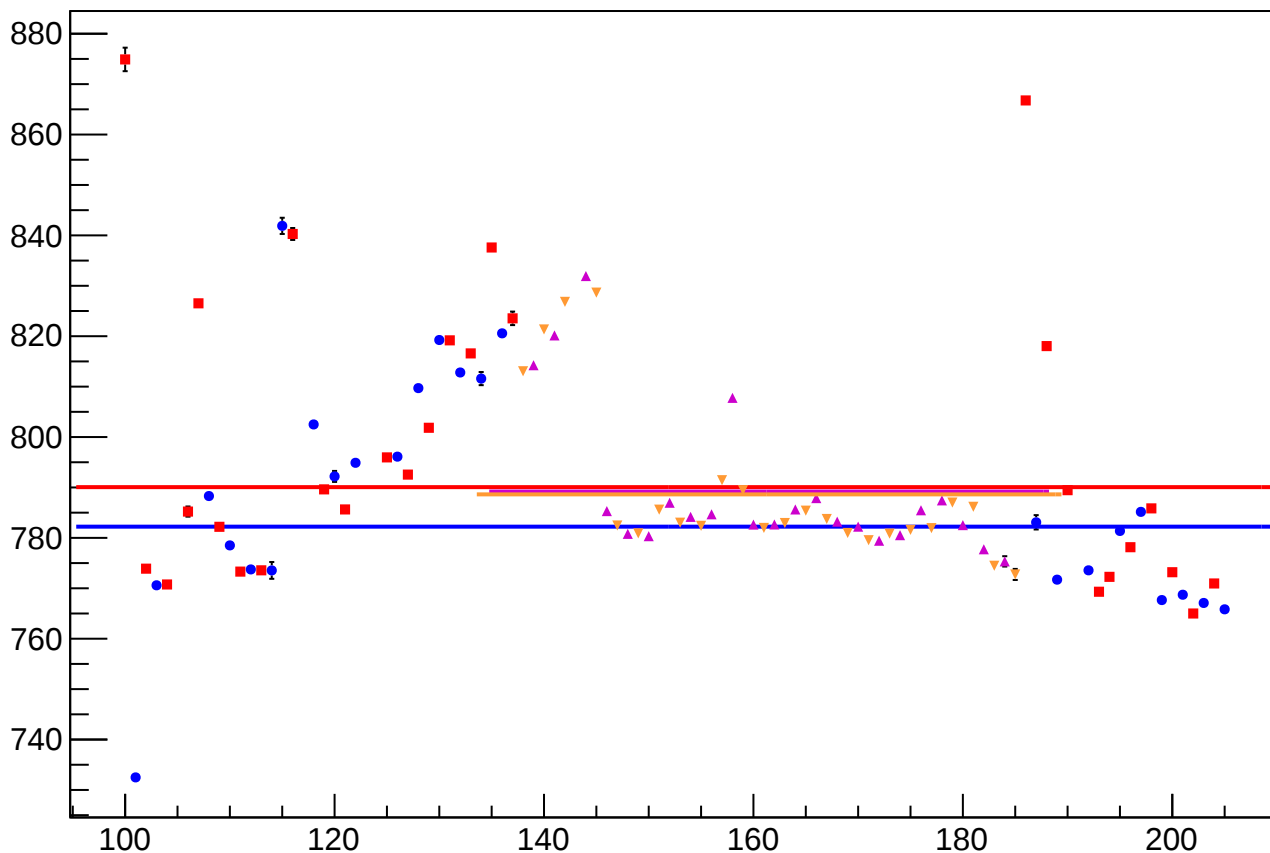
χ^2/NDF : 33.2/52

χ^2/NDF : 45.0/47

χ^2/NDF : 34.7/51

χ^2/NDF : 81.7/99

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 782.225 $\pm$ 0.154 χ^2 /NDF: 19891.1/24

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

Right Out: 790.064 $\pm$ 0.150 χ^2 /NDF: 25564.3/27

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

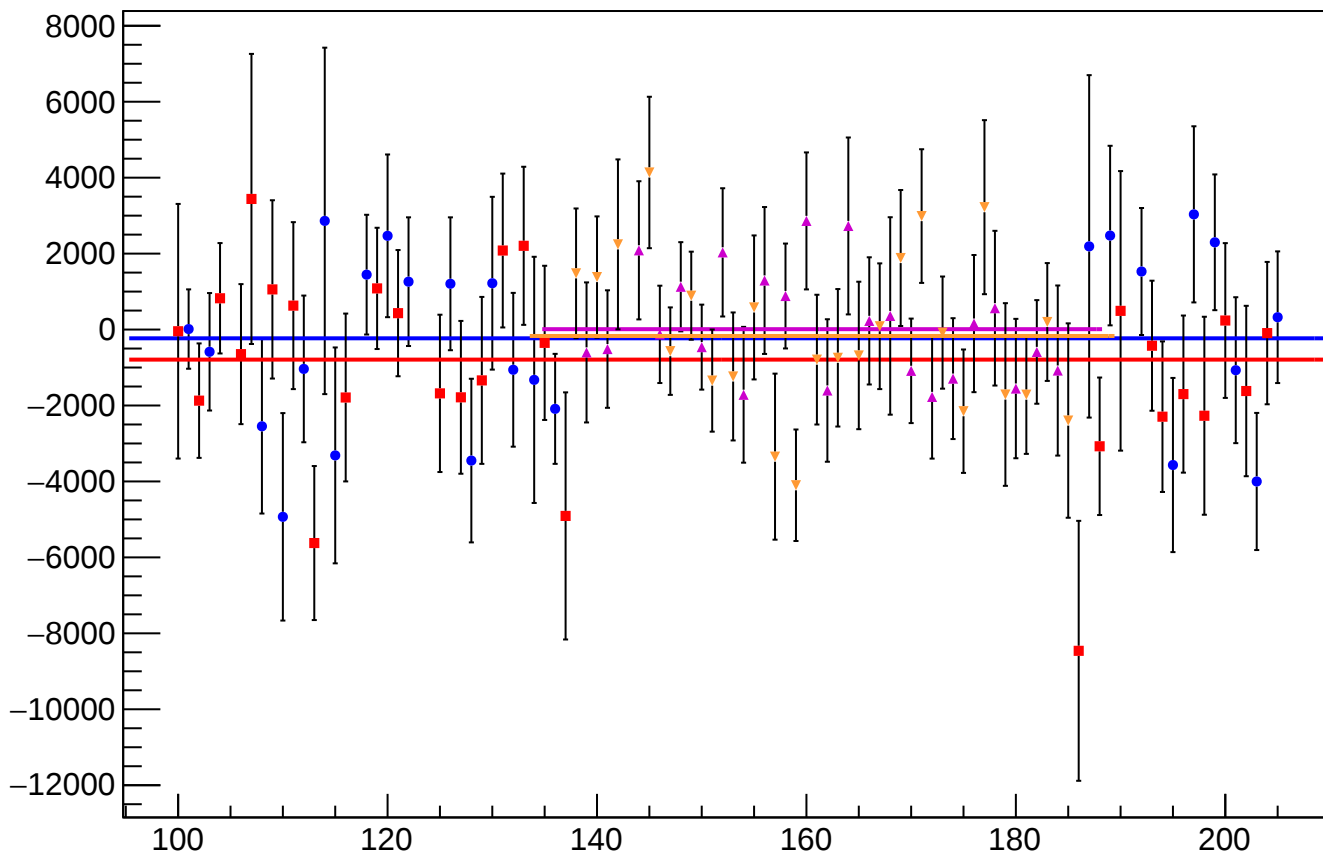
Right: 786.237 $\pm$ 0.107 χ^2 /NDF: 46785.0/52

In: 786.196 $\pm$ 0.101 χ^2 /NDF:32402.8/47

Out: 789.257 $\pm$ 0.099 χ^2 /NDF:37093.7/51

All: 787.748 $\pm$ 0.071 χ^2 /NDF: 69964.2/99

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -230.591 $\pm$ 383.467 χ^2 /NDF: 28.1/24

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

Right Out: -791.496 $\pm$ 388.711 χ^2 /NDF: 26.5/27

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

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

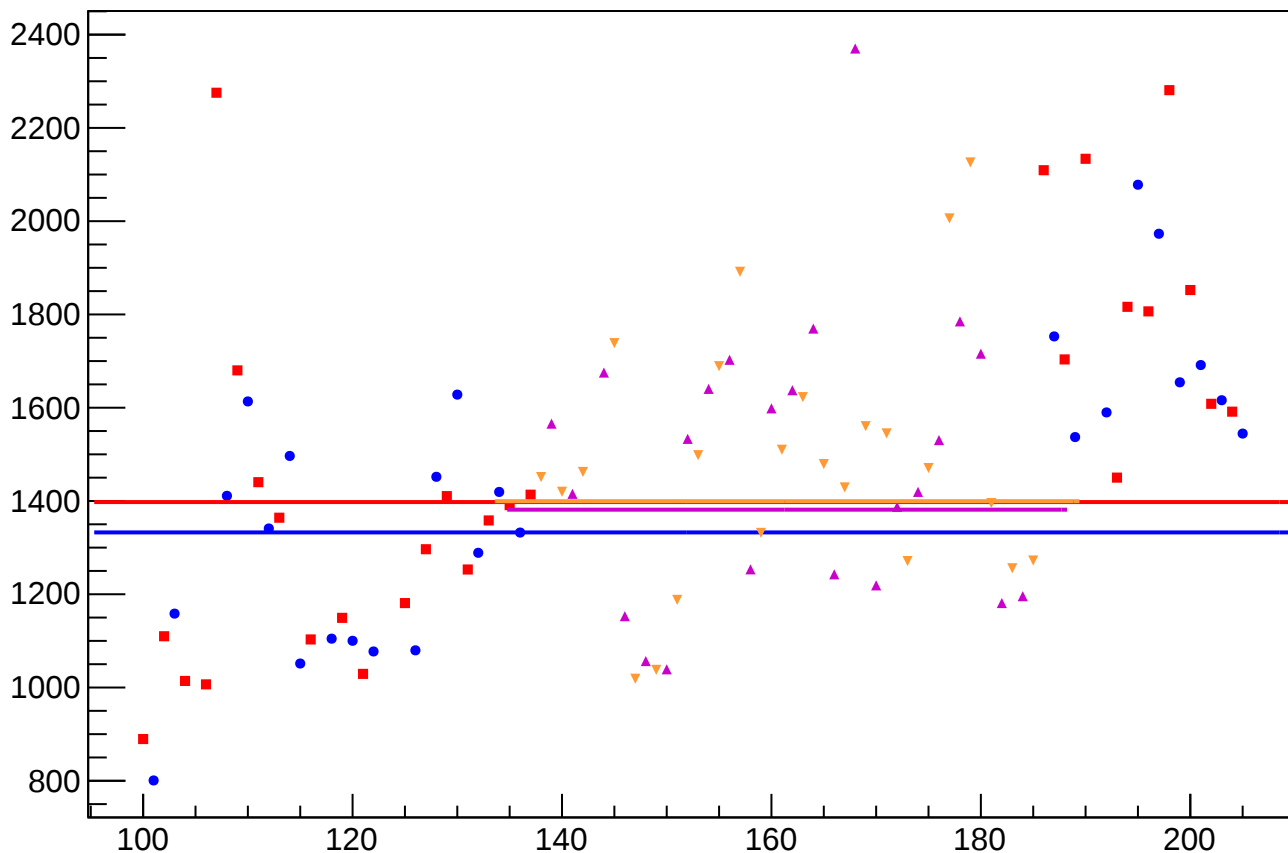
Right: -507.235 $\pm$ 272.987 χ^2 /NDF: 55.6/52

In: -95.075 $\pm$ 253.481 χ^2 /NDF:42.5/47

Out: -439.271 $\pm$ 256.083 χ^2 /NDF:57.9/51

All: -265.415 $\pm$ 180.151 χ^2 /NDF: 101.4/99

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1332.602 $\pm$ 0.271 χ^2 /NDF: 1440914.1/24

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

Right Out: 1397.686 $\pm$ 0.275 χ^2 /NDF: 1464780.6/27

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

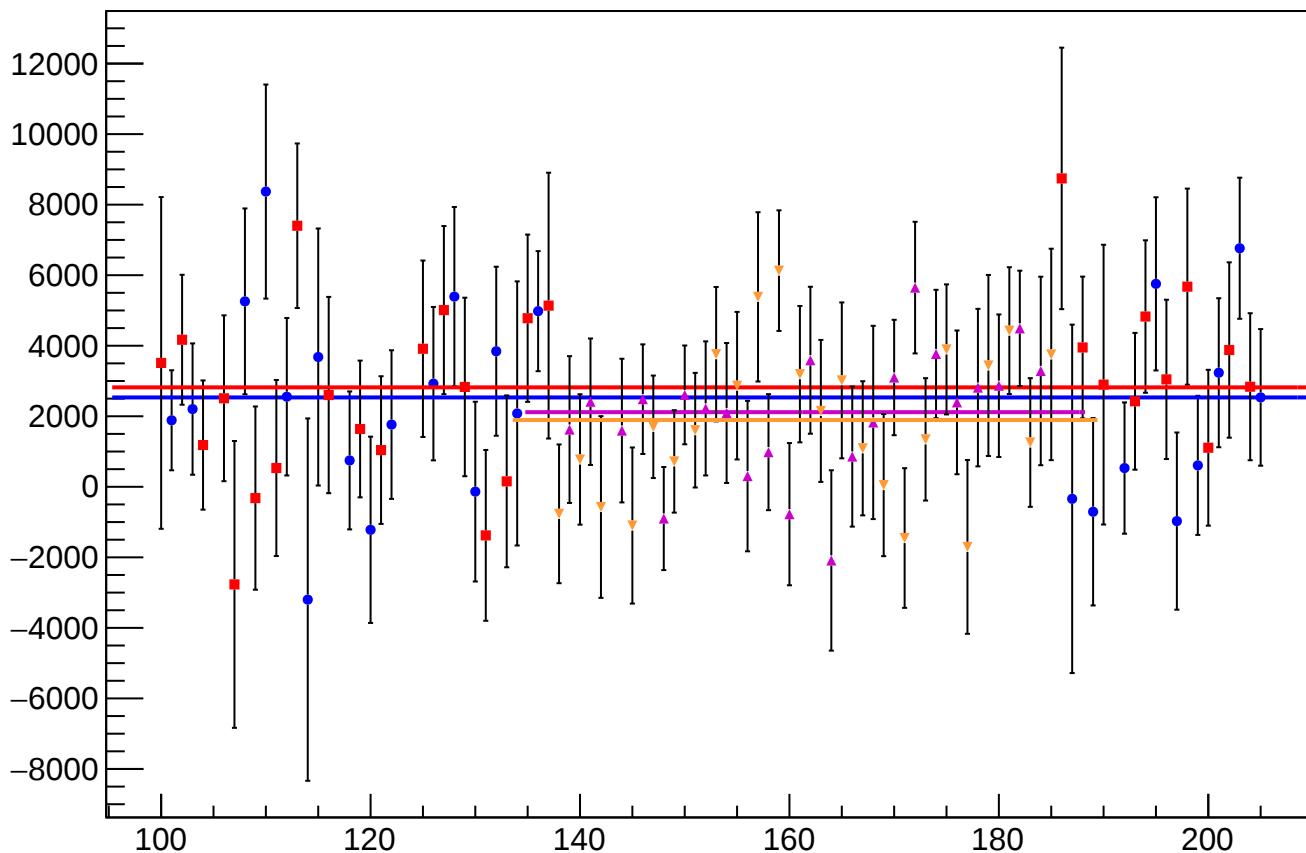
Right: 1364.702 $\pm$ 0.193 χ^2 /NDF: 2934109.7/52

In: 1360.054 $\pm$ 0.179 χ^2 /NDF: 2735606.8/47

Out: 1398.762 $\pm$ 0.181 χ^2 /NDF: 2583932.8/51

All: 1379.210 $\pm$ 0.127 χ^2 /NDF: 5342619.7/99

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2533.891 $\pm$ 452.367 χ^2 /NDF: 26.3/24

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

Right Out: 2819.356 $\pm$ 453.572 χ^2 /NDF: 22.4/27

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

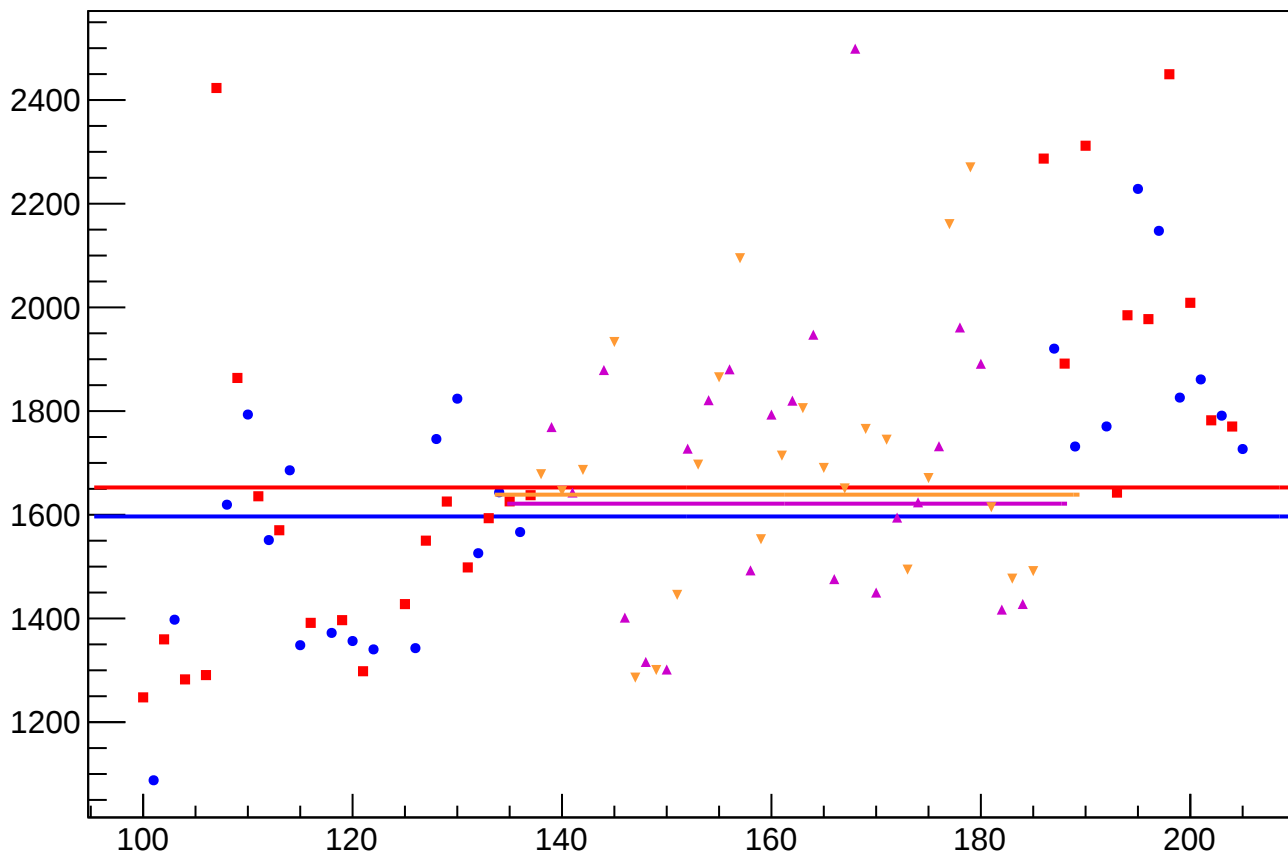
Right: 2676.243 $\pm$ 320.297 χ^2 /NDF: 48.9/52

In: 2295.806 $\pm$ 296.676 χ^2 /NDF:45.6/47

Out: 2292.665 $\pm$ 297.825 χ^2 /NDF:50.7/51

All: 2294.241 $\pm$ 210.187 χ^2 /NDF: 96.3/99

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1596.739 $\pm$ 0.320 χ^2 /NDF: 770960.2/24

Left Out: 1638.806 $\pm$ 0.279 χ^2 /NDF: 671906.6/23

Right Out: 1652.679 $\pm$ 0.321 χ^2 /NDF: 880448.4/27

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

Left: 1630.070 $\pm$ 0.197 χ^2 /NDF: 1449165.3/46

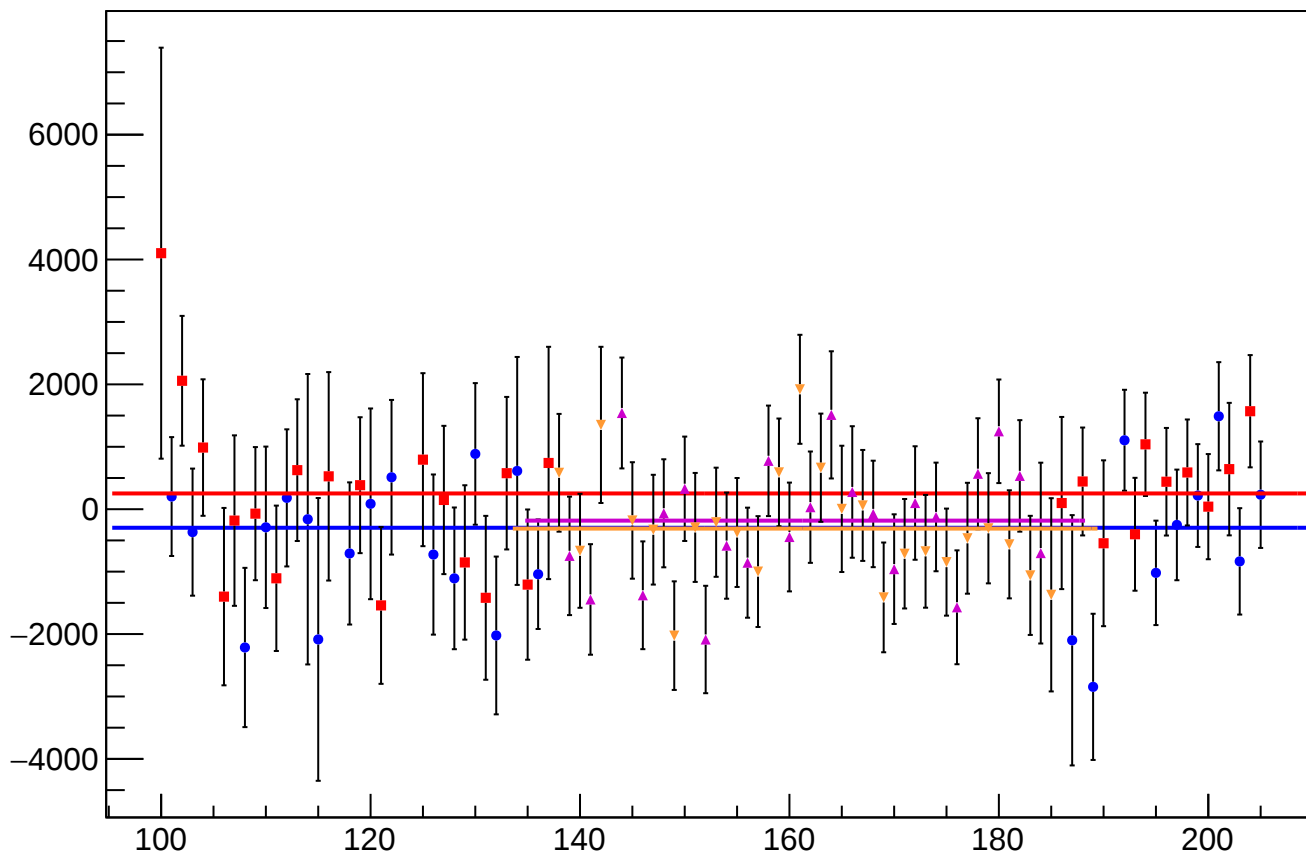
Right: 1624.634 $\pm$ 0.226 χ^2 /NDF: 1666659.4/52

In: 1610.803 $\pm$ 0.210 χ^2 /NDF: 1549662.2/47

Out: 1644.787 $\pm$ 0.211 χ^2 /NDF: 1553419.2/51

All: 1627.729 $\pm$ 0.149 χ^2 /NDF: 3116152.7/99

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -297.201 ± 215.695 $\chi^2/\text{NDF}: 23.2/24$

Left Out: -310.563 ± 186.538 $\chi^2/\text{NDF}: 20.0/23$

Right Out: 252.497 ± 210.307 $\chi^2/\text{NDF}: 18.5/27$

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

Left: -247.165 ± 132.352 $\chi^2/\text{NDF}: 46.4/46$

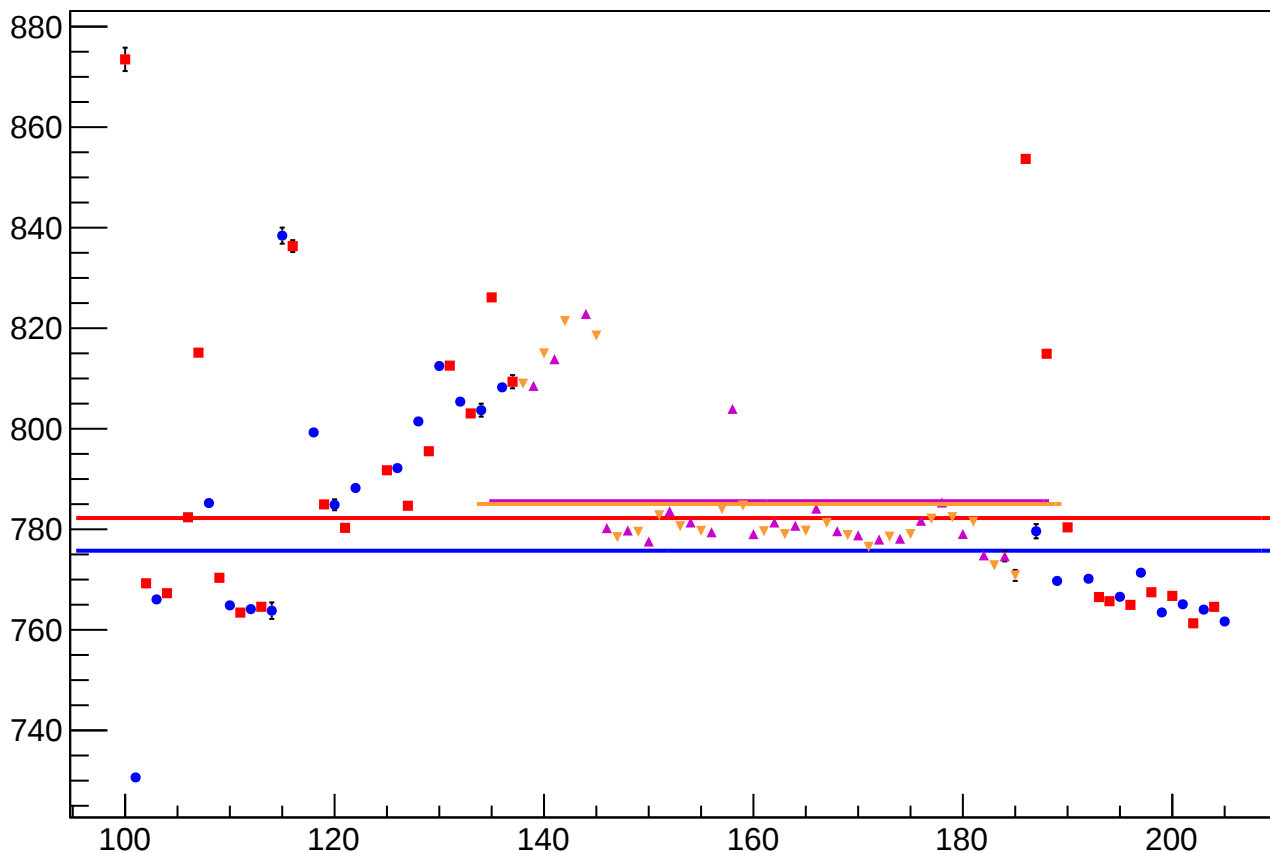
Right: -15.400 ± 150.578 $\chi^2/\text{NDF}: 45.1/52$

In: -232.188 ± 141.645 $\chi^2/\text{NDF}: 49.5/47$

Out: -62.637 ± 139.552 $\chi^2/\text{NDF}: 42.6/51$

All: -146.151 ± 99.410 $\chi^2/\text{NDF}: 92.8/99$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 775.744 $\pm$ 0.153 χ^2 /NDF: 17736.9/24

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

Right Out: 782.238 $\pm$ 0.149 χ^2 /NDF: 25086.5/27

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

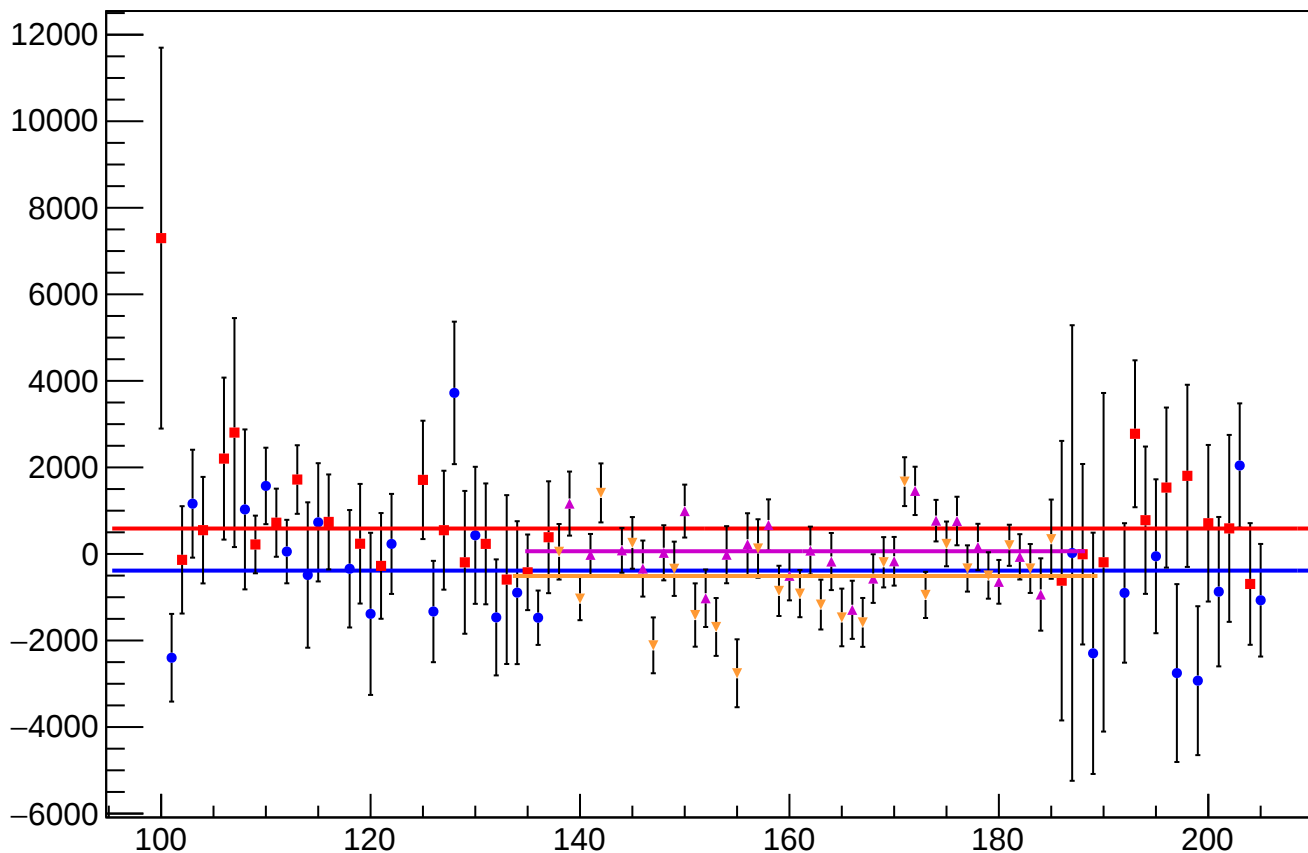
Right: 779.073 $\pm$ 0.106 χ^2 /NDF: 43753.1/52

In: 781.345 $\pm$ 0.100 χ^2 /NDF: 29482.1/47

Out: 783.801 $\pm$ 0.099 χ^2 /NDF: 34651.7/51

All: 782.591 $\pm$ 0.070 χ^2 /NDF: 64439.0/99

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -384.842 ± 255.482 $\chi^2/\text{NDF}: 30.8/24$

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

Right Out: 587.842 ± 249.899 $\chi^2/\text{NDF}: 13.1/27$

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

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

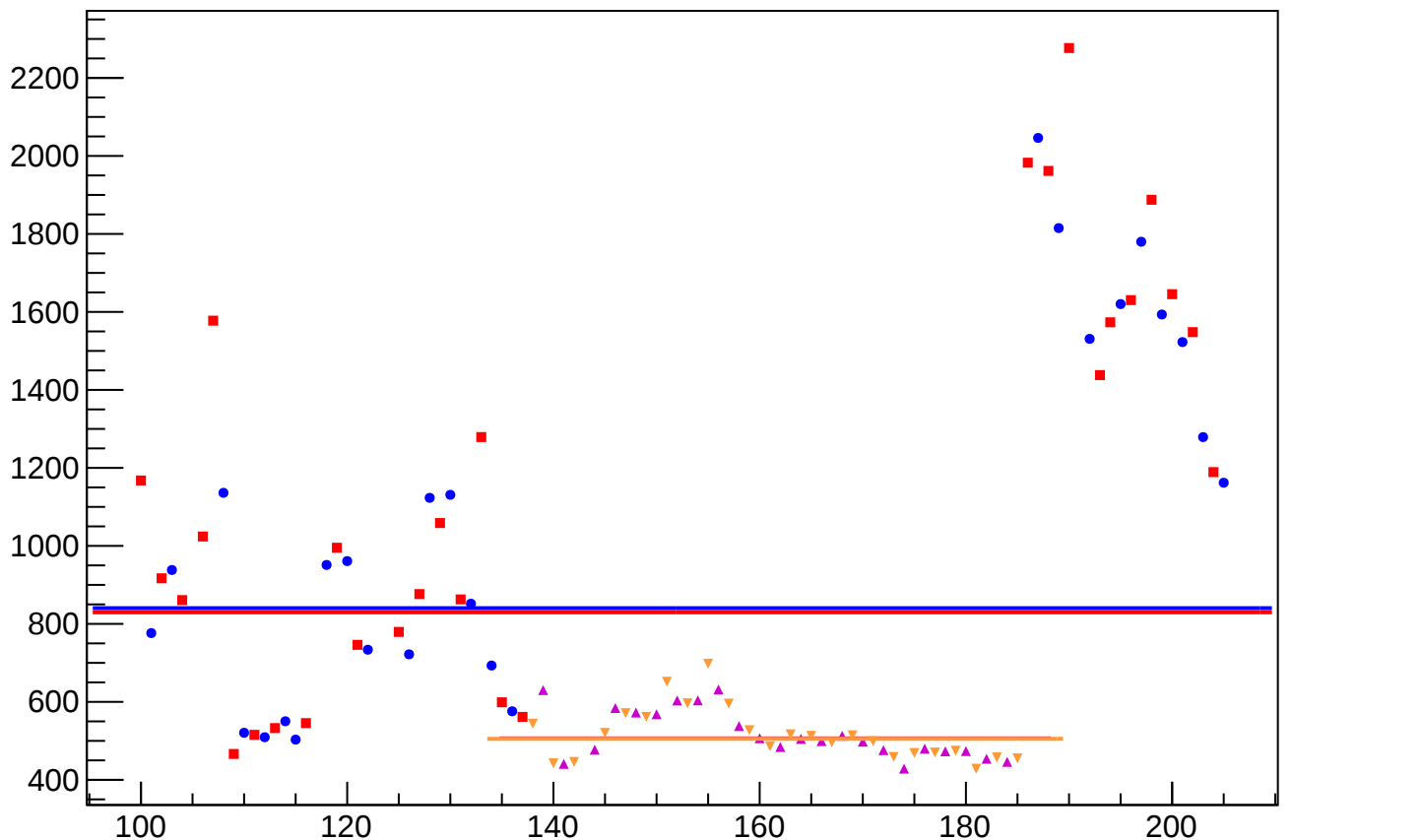
Right: 112.244 ± 178.646 $\chi^2/\text{NDF}: 51.4/52$

In: -20.399 ± 110.125 $\chi^2/\text{NDF}: 62.1/47$

Out: -300.409 ± 109.044 $\chi^2/\text{NDF}: 89.3/51$

All: -161.785 ± 77.485 $\chi^2/\text{NDF}: 154.6/99$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 840.328 $\pm$ 0.181 χ^2 /NDF: 4000960.6/24

Left Out: 505.220 $\pm$ 0.086 χ^2 /NDF: 485593.0/23

Right Out: 829.621 $\pm$ 0.177 χ^2 /NDF: 5341054.9/27

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

Left: 505.796 $\pm$ 0.061 χ^2 /NDF: 921978.4/46

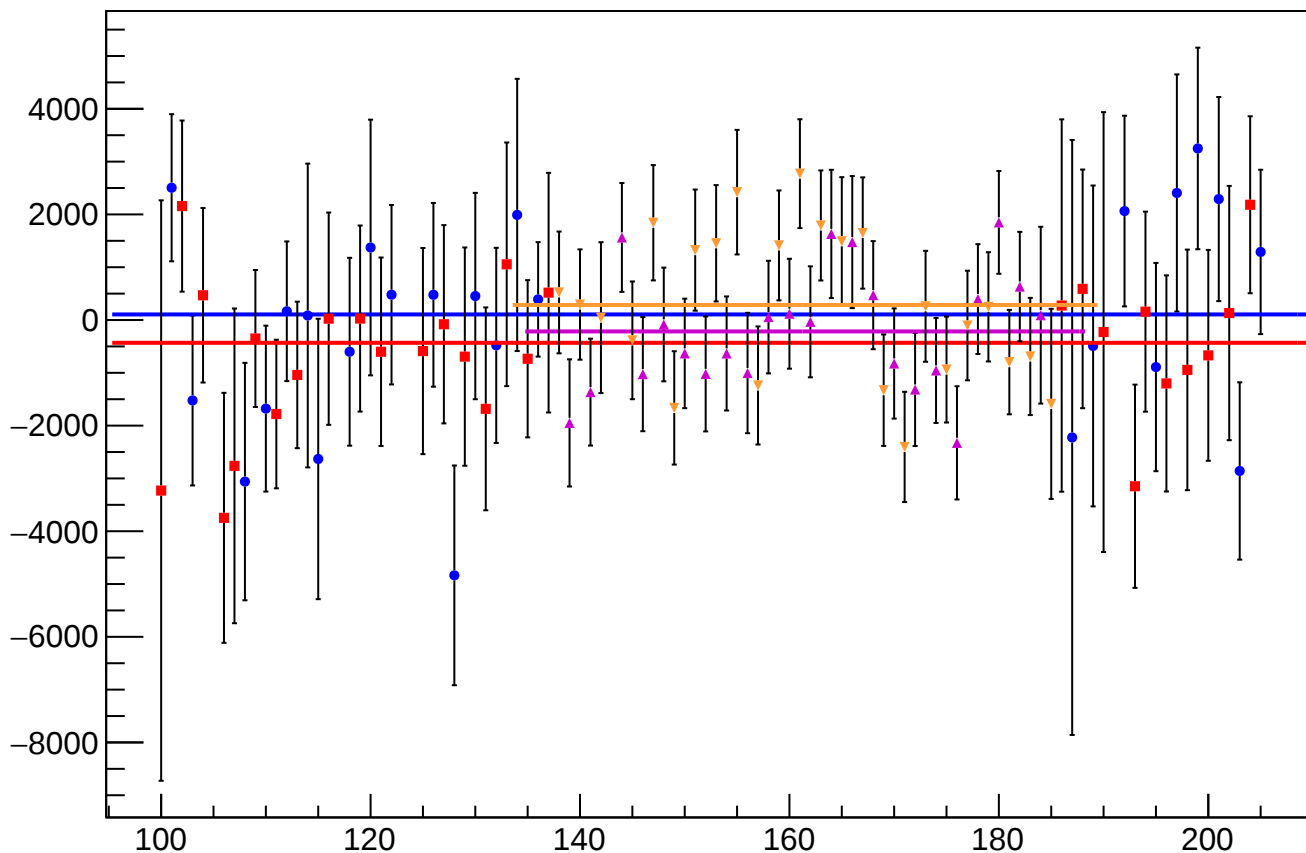
Right: 834.856 $\pm$ 0.126 χ^2 /NDF: 9343810.5/52

In: 568.429 $\pm$ 0.078 χ^2 /NDF: 7219500.2/47

Out: 566.987 $\pm$ 0.077 χ^2 /NDF: 8555208.6/51

All: 567.701 $\pm$ 0.055 χ^2 /NDF: 15774881.8/99

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 105.816 $\pm$ 365.150 χ^2 /NDF: 25.6/24

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

Right Out: -431.624 $\pm$ 363.913 χ^2 /NDF: 13.1/27

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

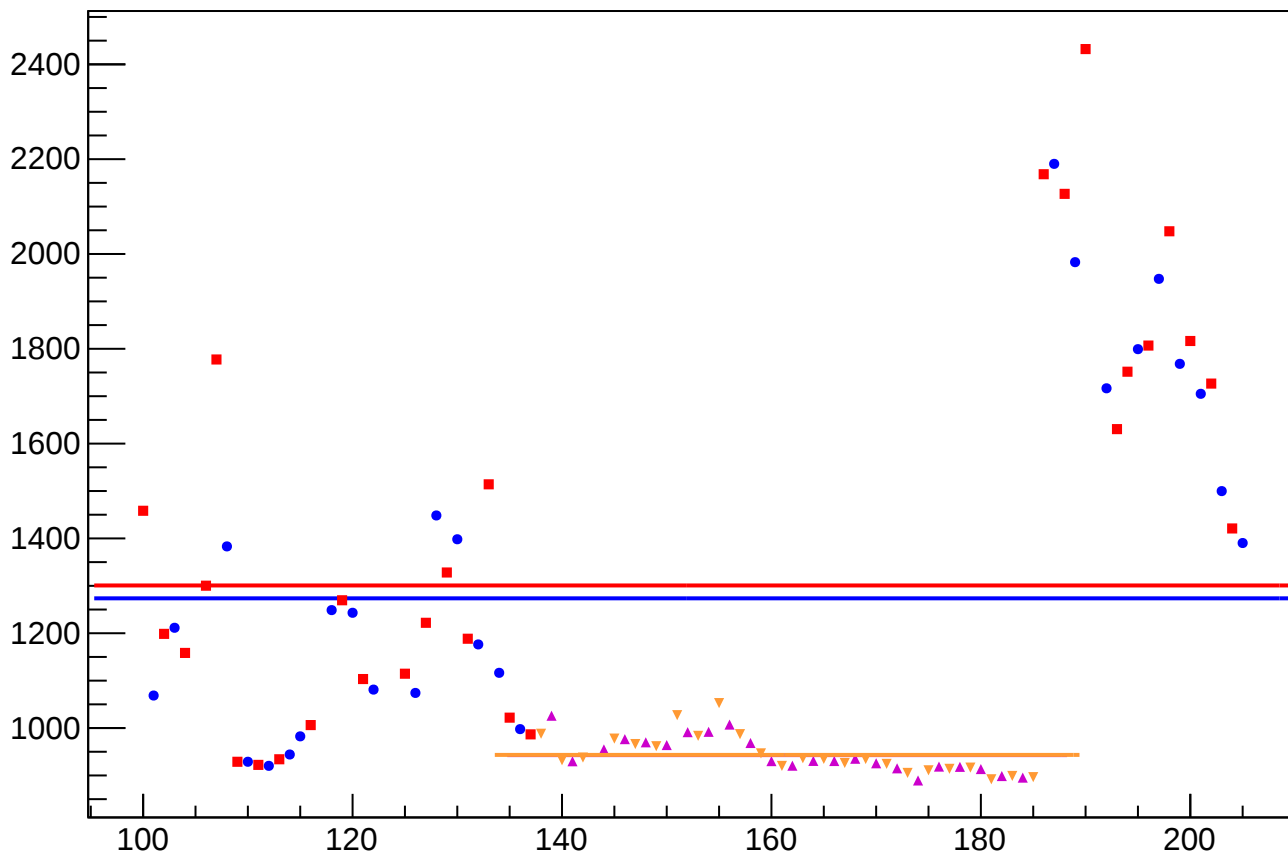
Right: -163.815 $\pm$ 257.762 χ^2 /NDF: 39.8/52

In: -127.182 $\pm$ 191.925 χ^2 /NDF:50.6/47

Out: 87.714 $\pm$ 190.992 χ^2 /NDF:54.1/51

All: -19.211 $\pm$ 135.380 χ^2 /NDF: 105.4/99

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1273.622 $\pm$ 0.258 χ^2/NDF : 1443672.1/24

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

Right Out: 1300.780 $\pm$ 0.257 χ^2/NDF : 1998257.8/27

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

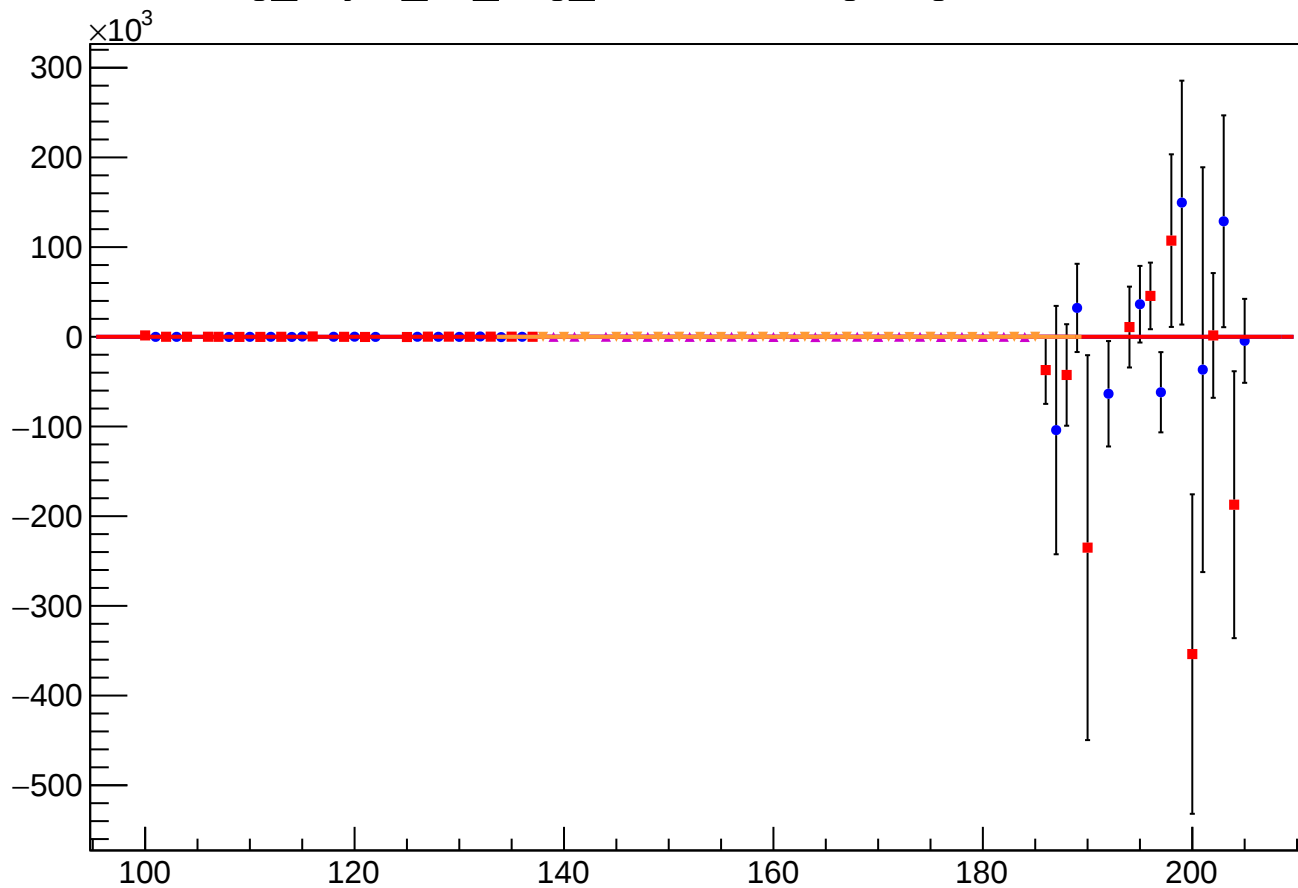
Right: 1287.247 $\pm$ 0.182 χ^2/NDF : 3447480.4/52

In: 1034.285 $\pm$ 0.136 χ^2/NDF : 2679281.3/47

Out: 1041.803 $\pm$ 0.135 χ^2/NDF : 3456556.9/51

All: 1038.062 $\pm$ 0.096 χ^2/NDF : 6137380.1/99

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.557 ± 30.032 $\chi^2/\text{NDF}: 23.2/24$

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

Right Out: 31.741 ± 30.492 $\chi^2/\text{NDF}: 27.9/26$

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

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

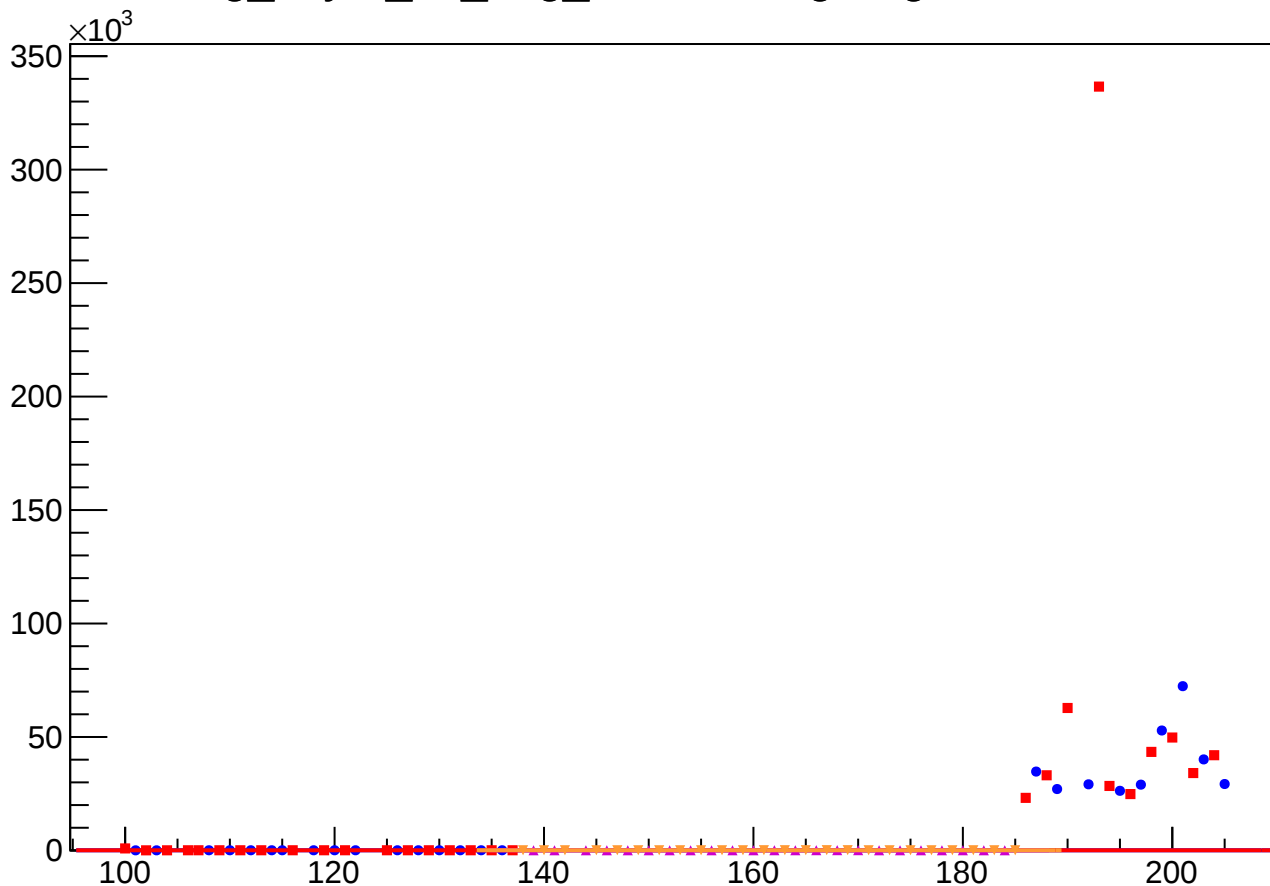
Right: 7.733 ± 21.397 $\chi^2/\text{NDF}: 52.3/51$

In: -20.420 ± 17.527 $\chi^2/\text{NDF}: 45.7/47$

Out: 13.000 ± 17.553 $\chi^2/\text{NDF}: 50.9/50$

All: -3.735 ± 12.403 $\chi^2/\text{NDF}: 98.4/98$

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.118 $\pm$ 0.021 χ^2 /NDF: 4864296.6/24

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

Right Out: 79.442 $\pm$ 0.022 χ^2 /NDF: 5003925.8/27

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

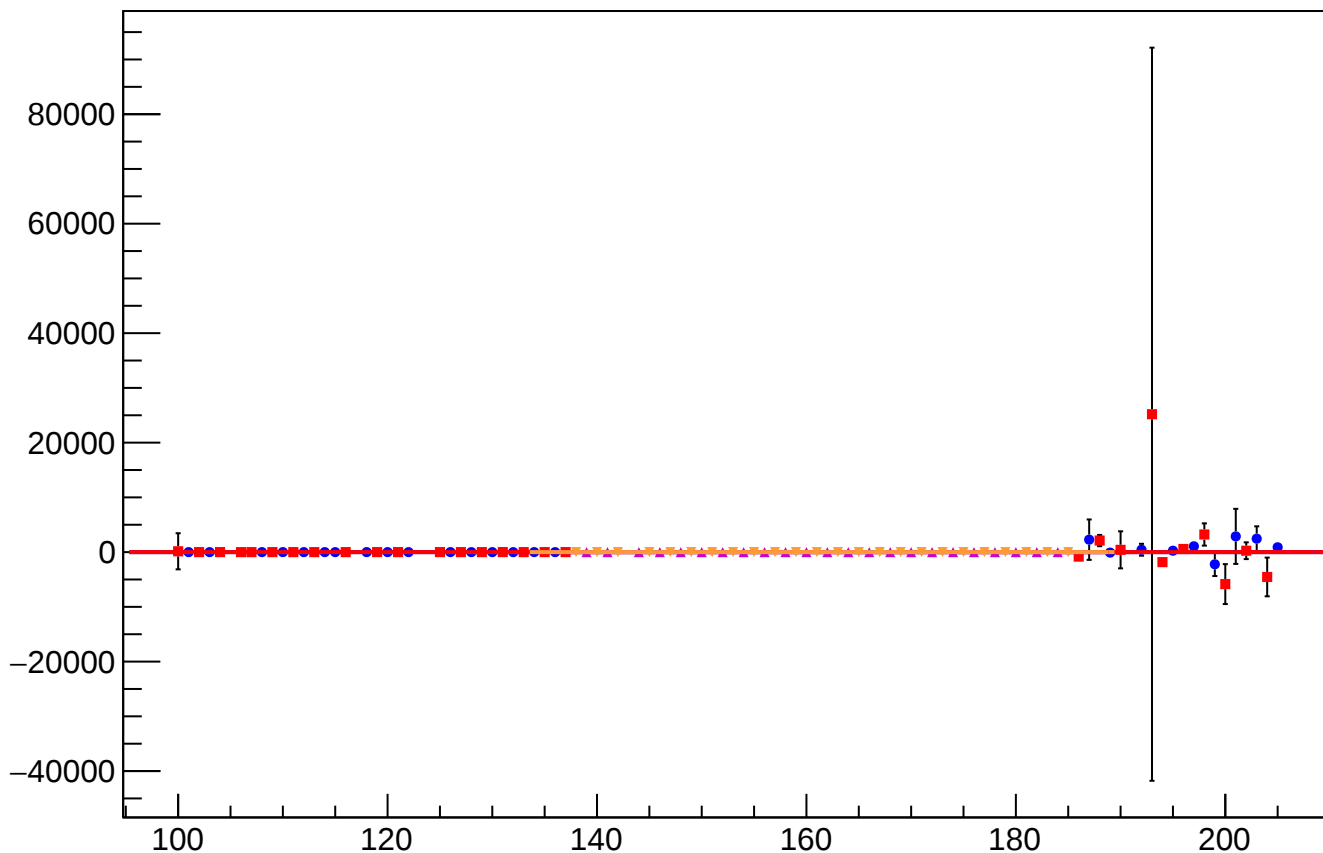
Right: 77.755 $\pm$ 0.015 χ^2 /NDF: 9880283.3/52

In: 85.005 $\pm$ 0.012 χ^2 /NDF: 5638386.7/47

Out: 86.295 $\pm$ 0.012 χ^2 /NDF: 5621318.8/51

All: 85.649 $\pm$ 0.009 χ^2 /NDF: 11265114.4/99

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 ± 0.502 χ^2/NDF : 27.1/24

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

Right Out: 0.038 ± 0.525 χ^2/NDF : 27.0/27

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

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

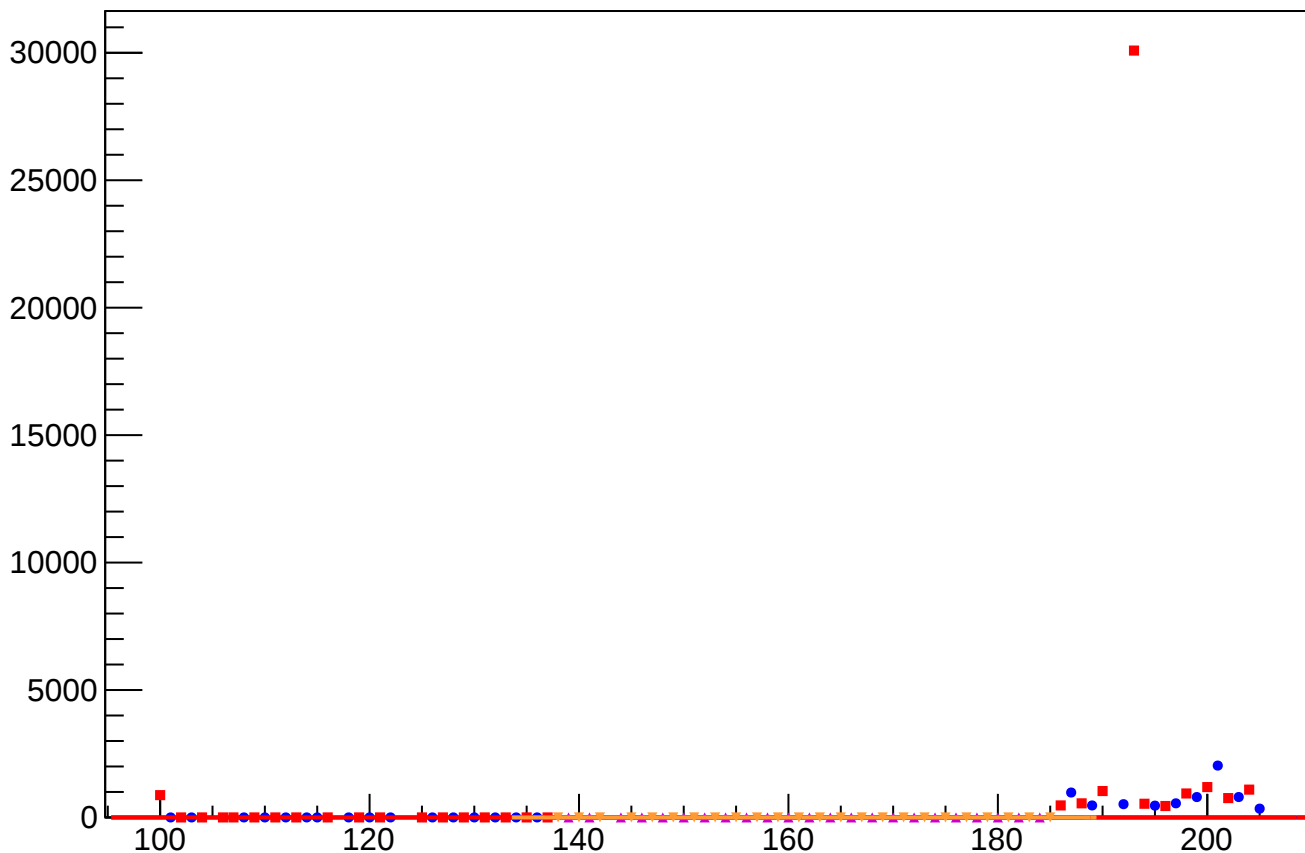
Right: -0.133 ± 0.363 χ^2/NDF : 54.4/52

In: -0.433 ± 0.306 χ^2/NDF : 53.6/47

Out: 0.096 ± 0.306 χ^2/NDF : 48.4/51

All: -0.168 ± 0.217 χ^2/NDF : 103.5/99

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 4357019.3/24

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

Right Out: 1.260+/-0.000 χ^2/NDF : 5185773.9/27

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

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

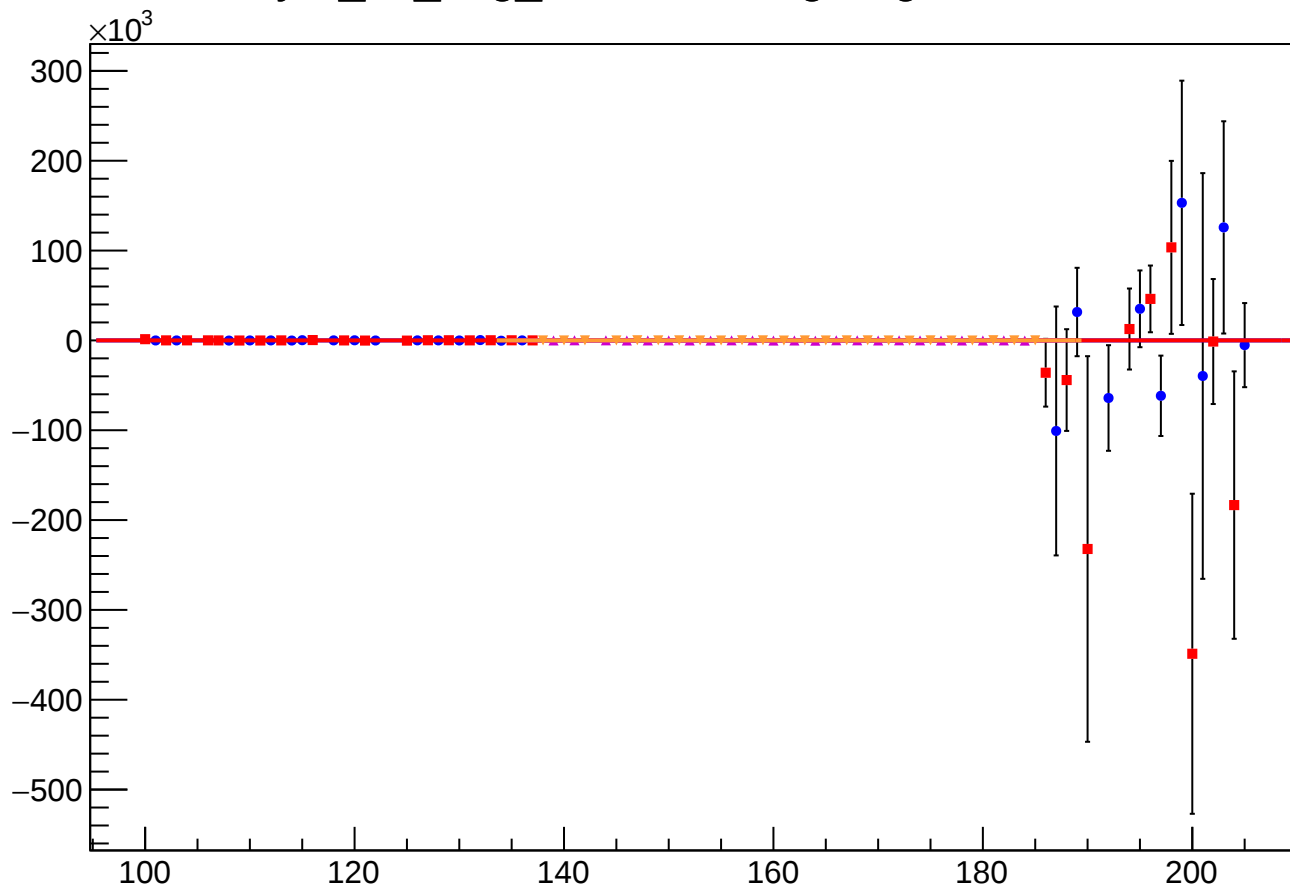
Right: 1.204+/-0.000 χ^2/NDF : 9586245.9/52

In: 1.341+/-0.000 χ^2/NDF :5801947.9/47

Out: 1.358+/-0.000 χ^2/NDF :6278691.1/51

All: 1.350+/-0.000 χ^2/NDF : 12083617.3/99

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.495 ± 30.040 $\chi^2/\text{NDF}: 23.4/24$

Left Out: 3.497 ± 21.474 $\chi^2/\text{NDF}: 22.1/23$

Right Out: 32.021 ± 30.500 $\chi^2/\text{NDF}: 27.6/26$

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

Left: -9.404 ± 15.226 $\chi^2/\text{NDF}: 45.2/46$

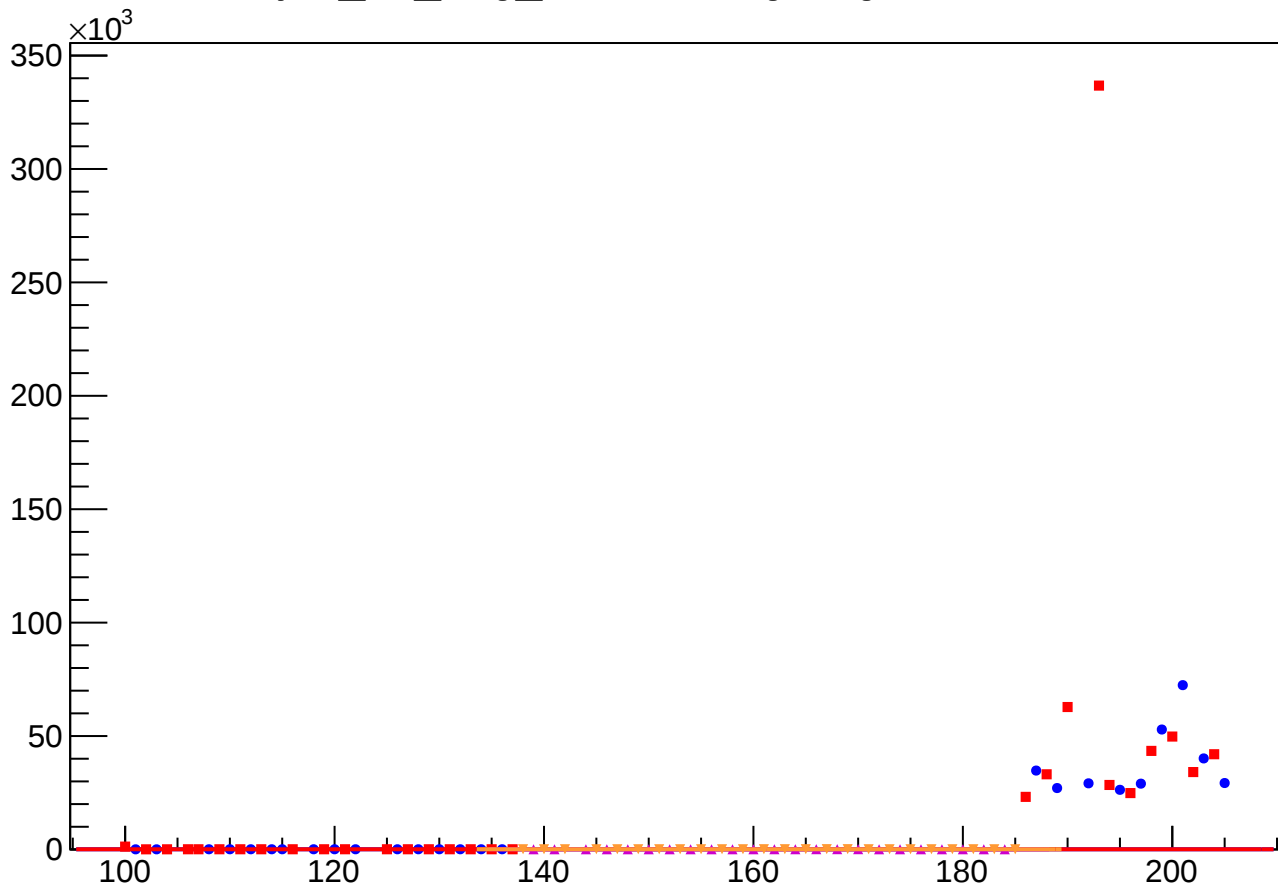
Right: 8.410 ± 21.402 $\chi^2/\text{NDF}: 52.2/51$

In: -19.737 ± 17.532 $\chi^2/\text{NDF}: 45.8/47$

Out: 12.950 ± 17.559 $\chi^2/\text{NDF}: 50.3/50$

All: -3.418 ± 12.407 $\chi^2/\text{NDF}: 97.8/98$

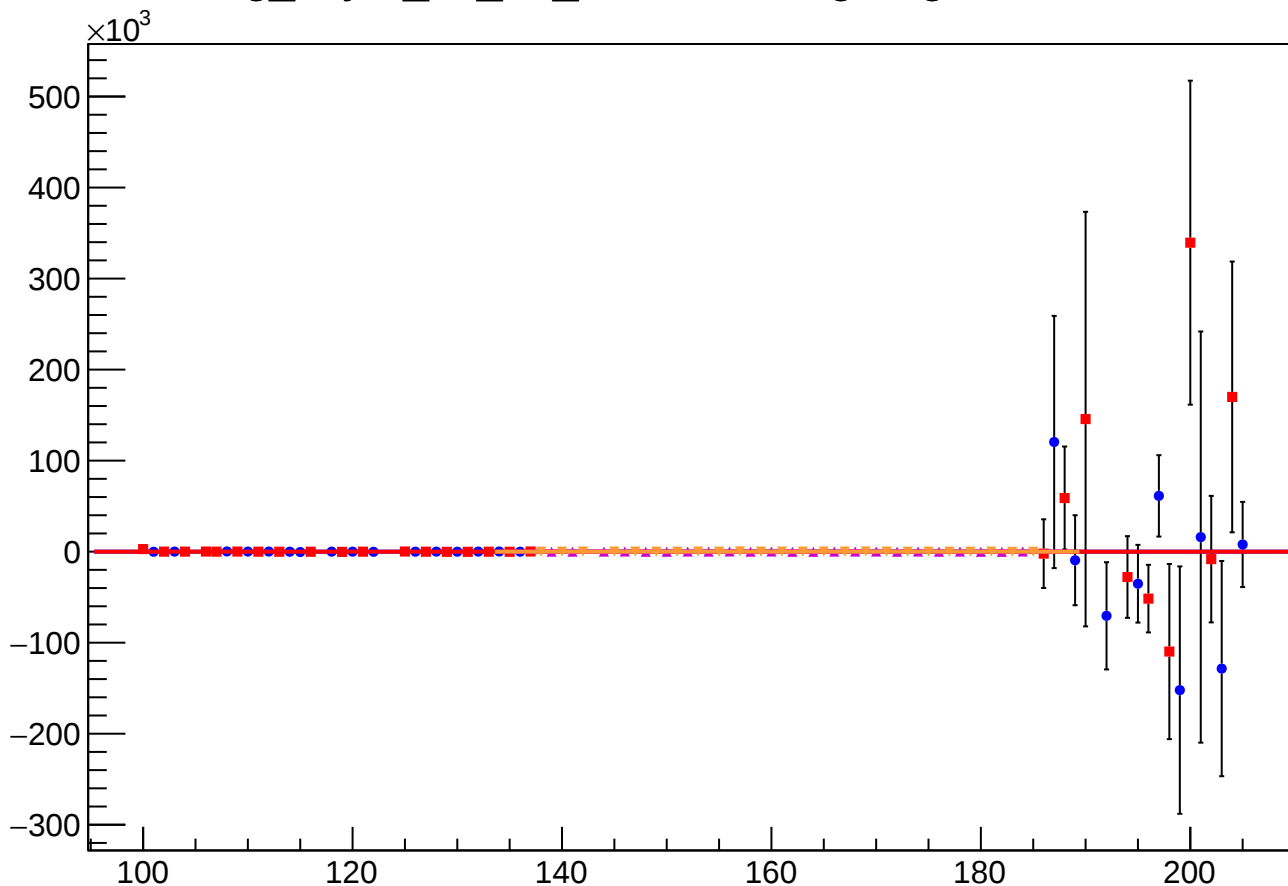
asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.138 $\pm$ 0.021 χ^2 /NDF: 4864426.4/24
 Left Out: 89.719 $\pm$ 0.015 χ^2 /NDF: 467023.5/23
 Right Out: 79.445 $\pm$ 0.022 χ^2 /NDF: 5010538.7/27
 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: 77.767 $\pm$ 0.015 χ^2 /NDF: 9886900.6/52
 In: 85.029 $\pm$ 0.012 χ^2 /NDF: 5639519.3/47
 Out: 86.314 $\pm$ 0.012 χ^2 /NDF: 5629275.8/51
 All: 85.671 $\pm$ 0.009 χ^2 /NDF: 11274158.1/99

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.095 ± 30.012 $\chi^2/\text{NDF}: 21.3/24$

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

Right Out: -25.799 ± 30.473 $\chi^2/\text{NDF}: 22.9/26$

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

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

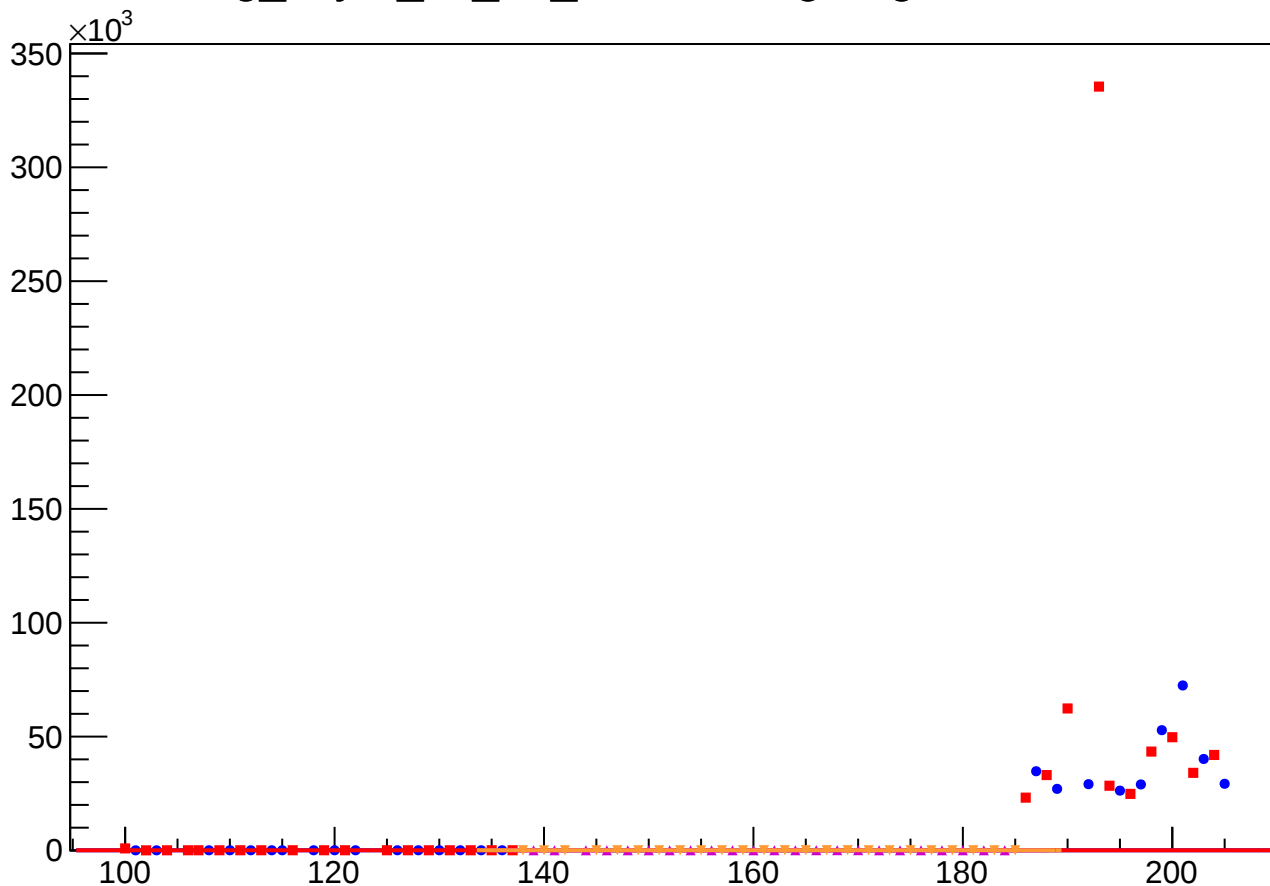
Right: -8.594 ± 21.383 $\chi^2/\text{NDF}: 44.8/51$

In: 31.374 ± 17.528 $\chi^2/\text{NDF}: 53.6/47$

Out: 1.647 ± 17.552 $\chi^2/\text{NDF}: 41.3/50$

All: 16.531 ± 12.403 $\chi^2/\text{NDF}: 96.3/98$

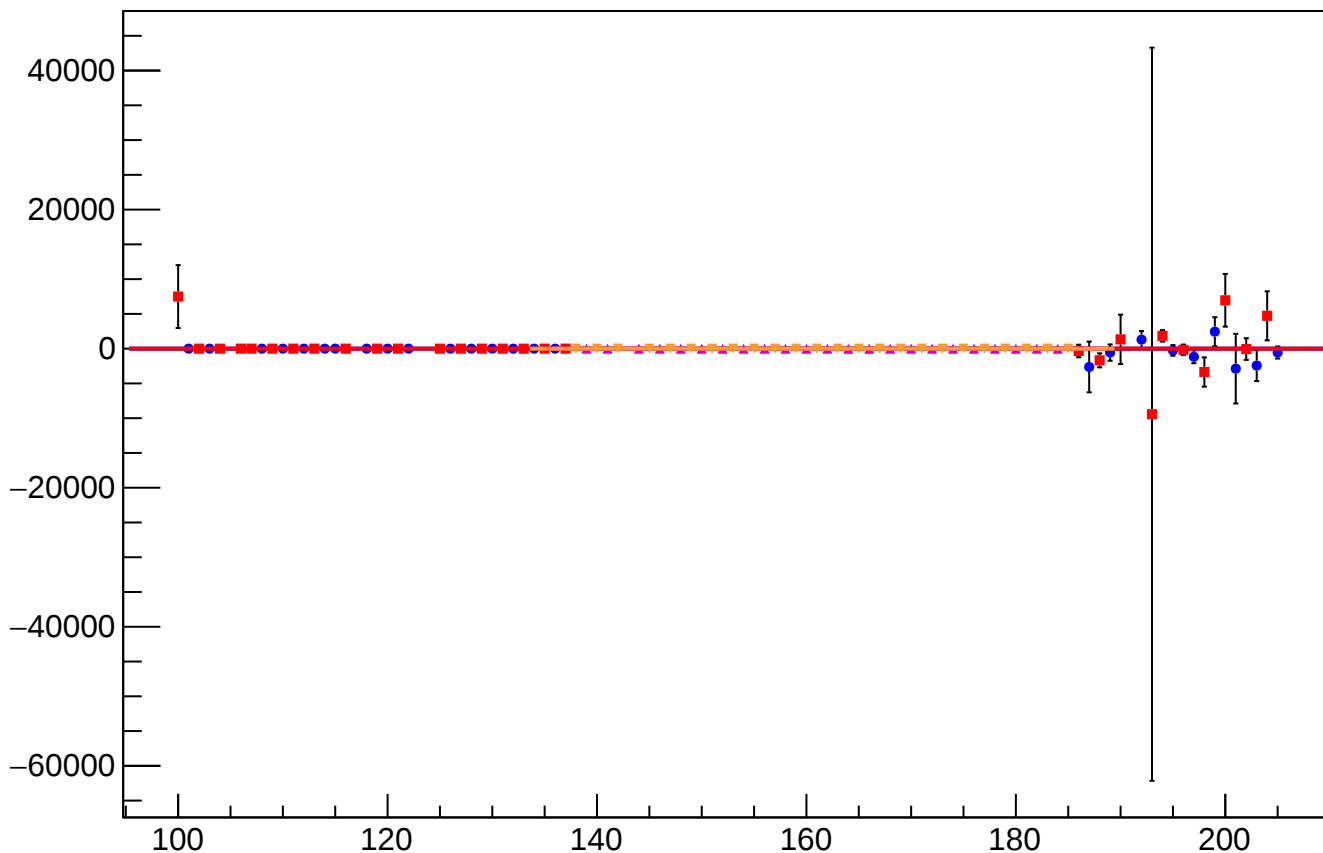
reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.069 $\pm$ 0.021 χ^2 /NDF: 4863542.8/24
 Left Out: 89.712 $\pm$ 0.015 χ^2 /NDF: 465096.2/23
 Right Out: 79.393 $\pm$ 0.022 χ^2 /NDF: 5003198.1/27
 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: 77.706 $\pm$ 0.015 χ^2 /NDF: 9878822.9/52
 In: 85.003 $\pm$ 0.012 χ^2 /NDF: 5643546.1/47
 Out: 86.288 $\pm$ 0.012 χ^2 /NDF: 5621534.2/51
 All: 85.645 $\pm$ 0.009 χ^2 /NDF: 11270451.4/99

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.891 ± 0.531 $\chi^2/\text{NDF}: 18.8/24$

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

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 29.2/27$

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

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

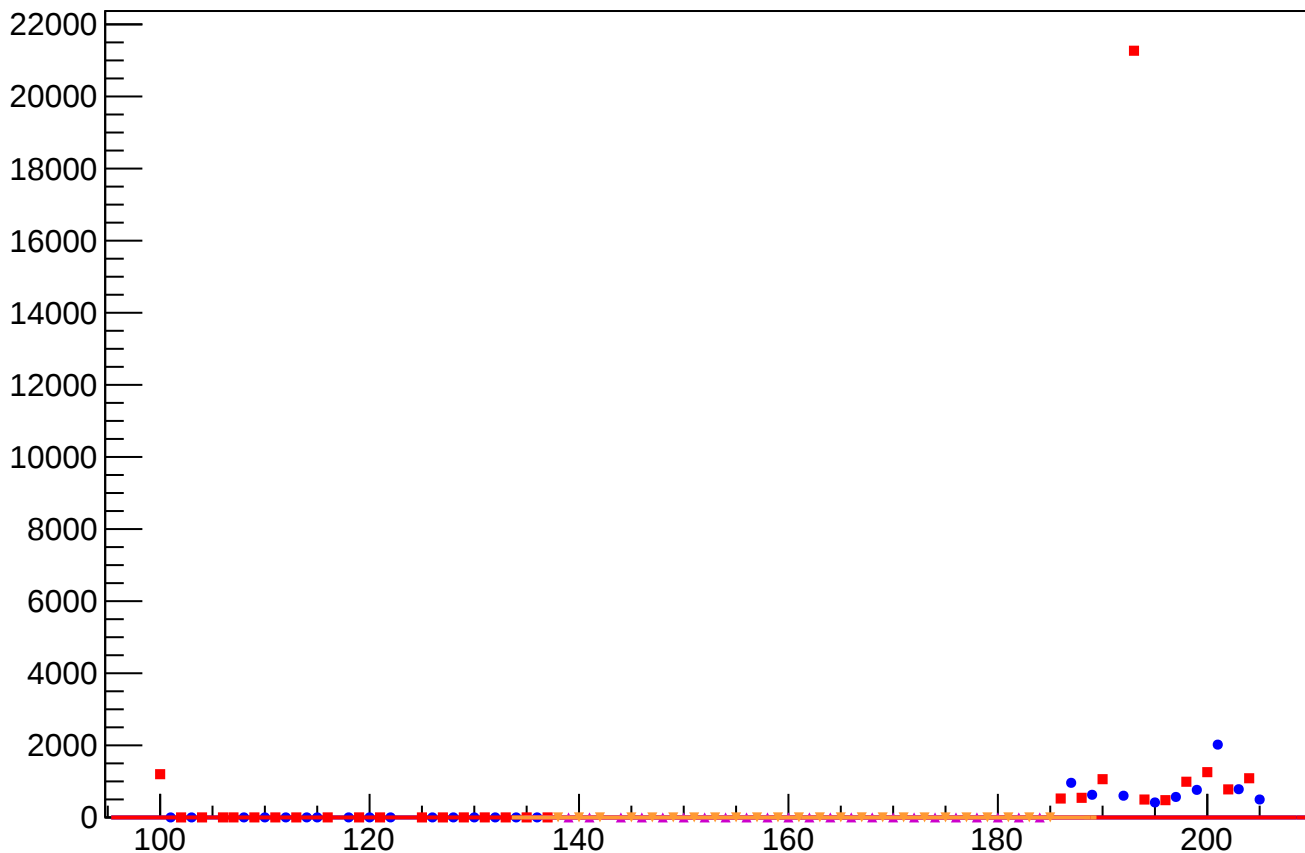
Right: 0.628 ± 0.382 $\chi^2/\text{NDF}: 48.5/52$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 41.3/47$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 51.5/51$

All: 0.023 ± 0.224 $\chi^2/\text{NDF}: 94.0/99$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 4654182.9/24

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

Right Out: 1.316+/-0.000 χ^2/NDF : 5156373.0/27

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

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

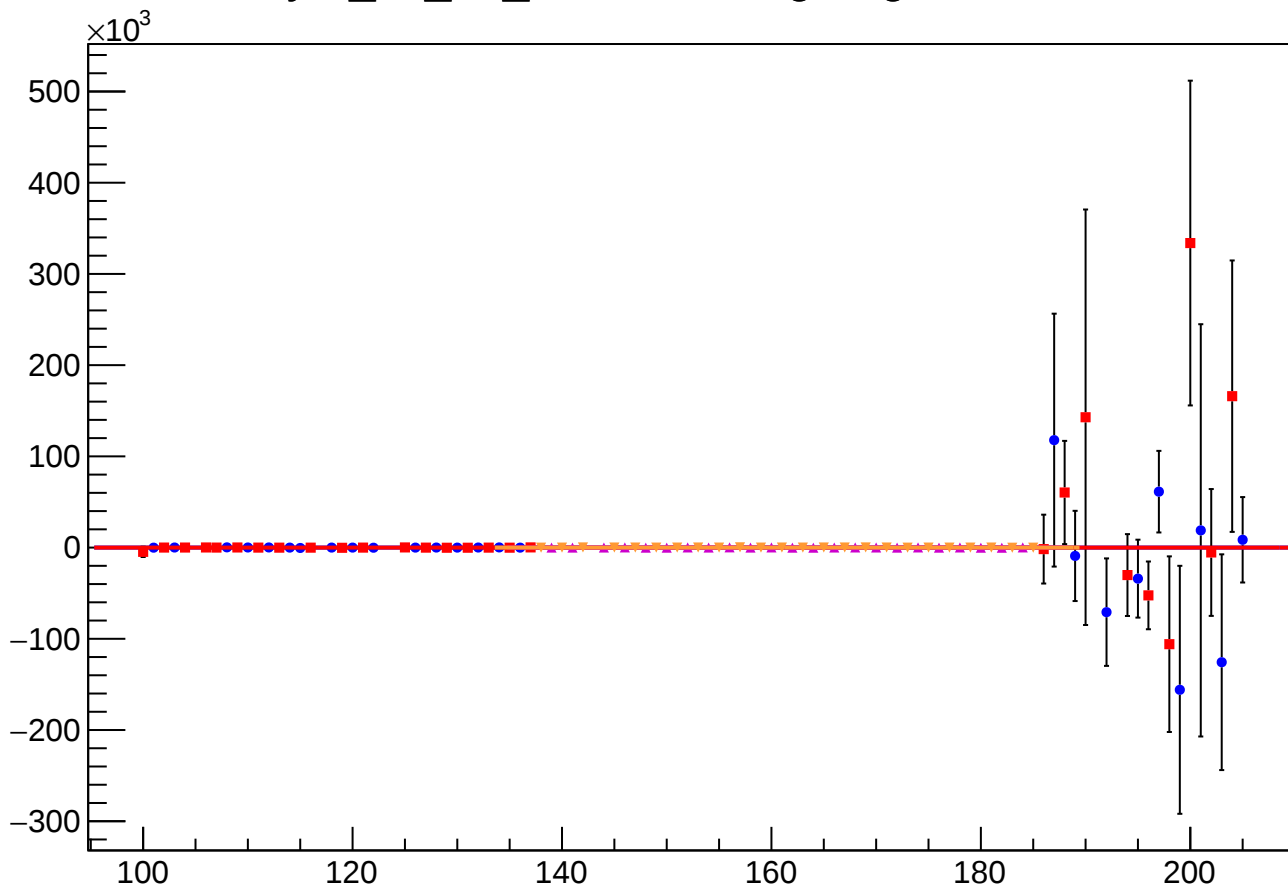
Right: 1.274+/-0.000 χ^2/NDF : 9833793.6/52

In: 1.381+/-0.000 χ^2/NDF :5939888.1/47

Out: 1.418+/-0.000 χ^2/NDF :6415572.6/51

All: 1.400+/-0.000 χ^2/NDF : 12369118.9/99

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.389 ± 30.020 $\chi^2/\text{NDF}: 21.1/24$

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

Right Out: -26.409 ± 30.482 $\chi^2/\text{NDF}: 22.9/26$

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

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

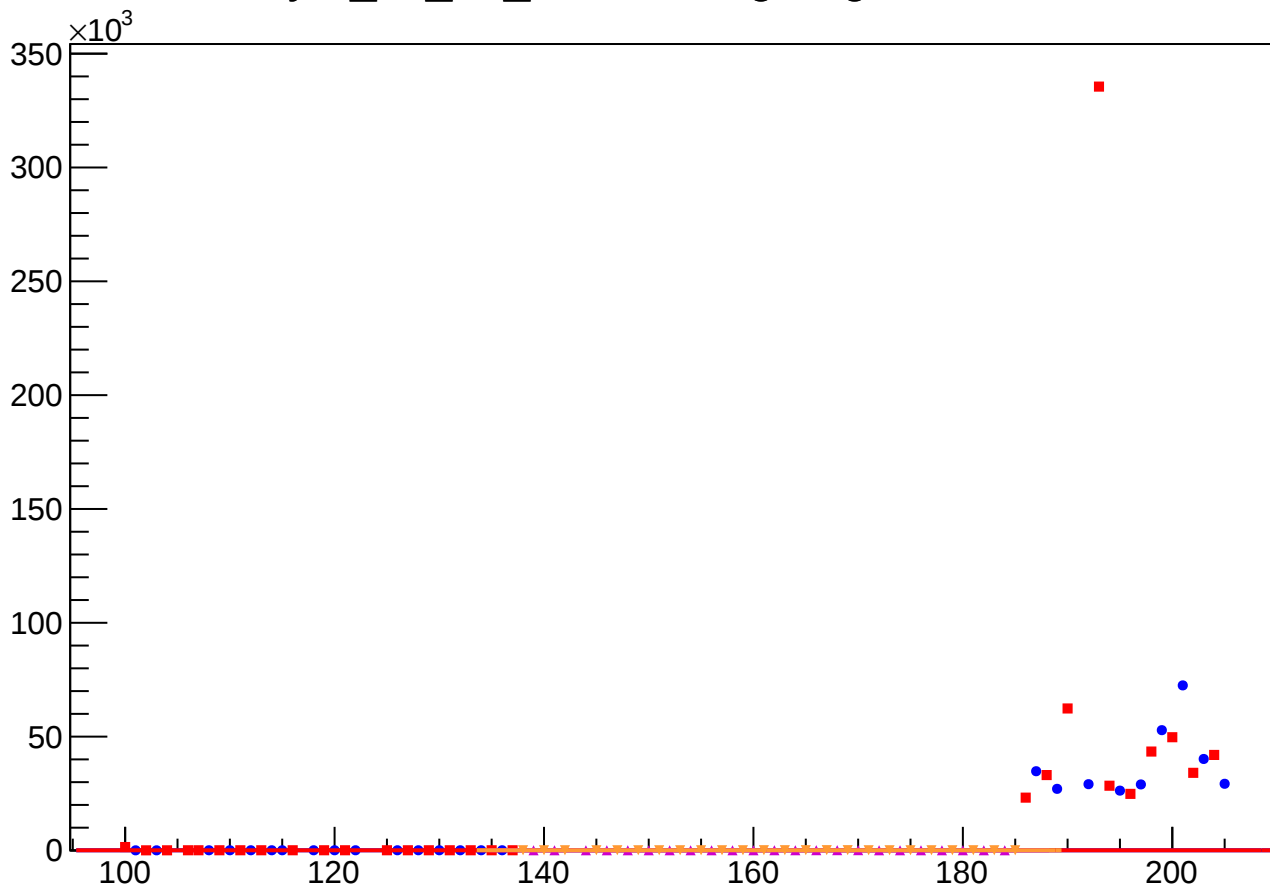
Right: -9.252 ± 21.389 $\chi^2/\text{NDF}: 44.7/51$

In: 31.449 ± 17.533 $\chi^2/\text{NDF}: 53.2/47$

Out: 1.776 ± 17.558 $\chi^2/\text{NDF}: 41.3/50$

All: 16.633 ± 12.407 $\chi^2/\text{NDF}: 95.9/98$

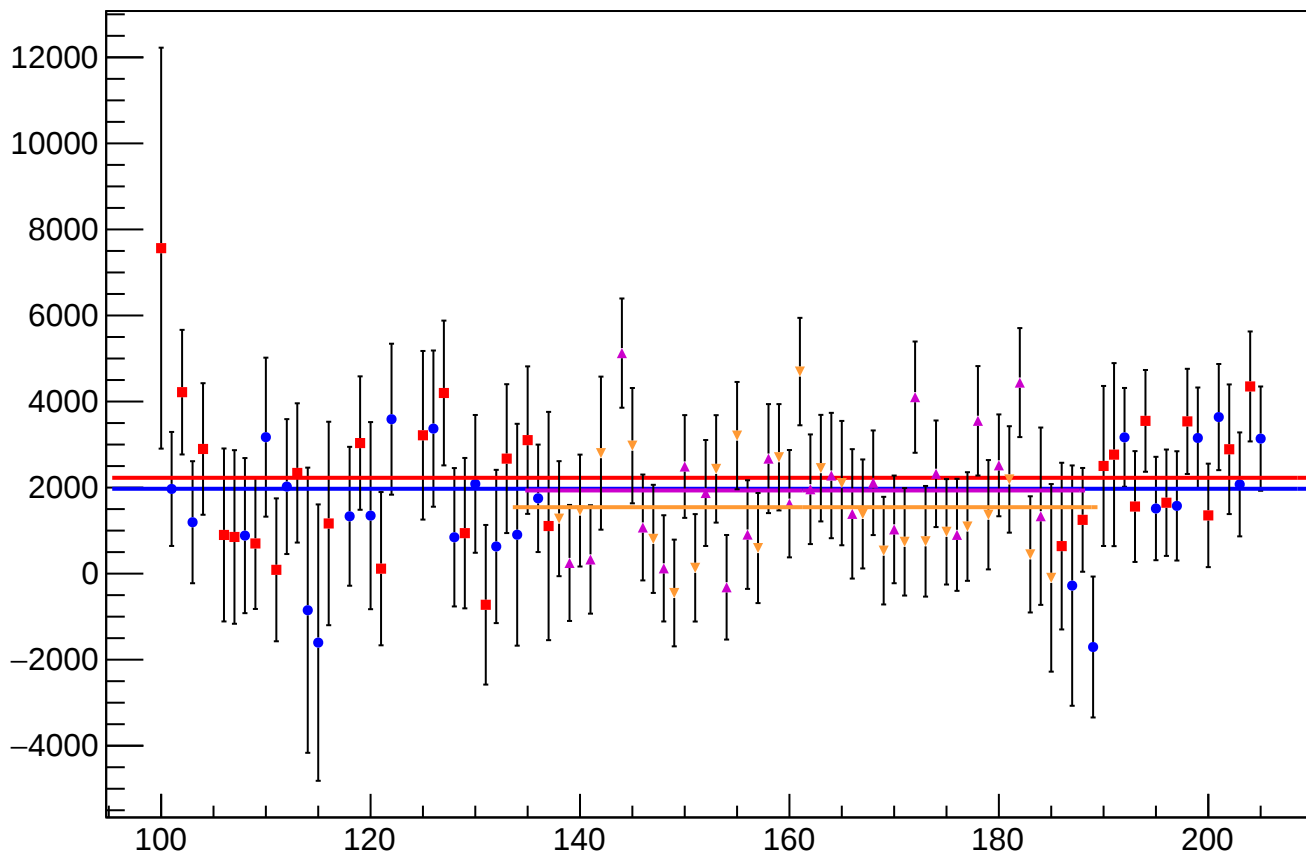
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.090 $\pm$ 0.021 χ^2 /NDF: 4863712.6/24
 Left Out: 89.740 $\pm$ 0.015 χ^2 /NDF: 465842.6/23
 Right Out: 79.390 $\pm$ 0.022 χ^2 /NDF: 5012530.9/27
 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: 77.715 $\pm$ 0.015 χ^2 /NDF: 9888145.6/52
 In: 85.027 $\pm$ 0.012 χ^2 /NDF: 5644618.2/47
 Out: 86.306 $\pm$ 0.012 χ^2 /NDF: 5632439.8/51
 All: 85.666 $\pm$ 0.009 χ^2 /NDF: 11282366.2/99

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1972.218 $\pm$ 305.825 χ^2 /NDF: 16.8/24

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

Right Out: 2227.362 $\pm$ 295.825 χ^2 /NDF: 21.8/28

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

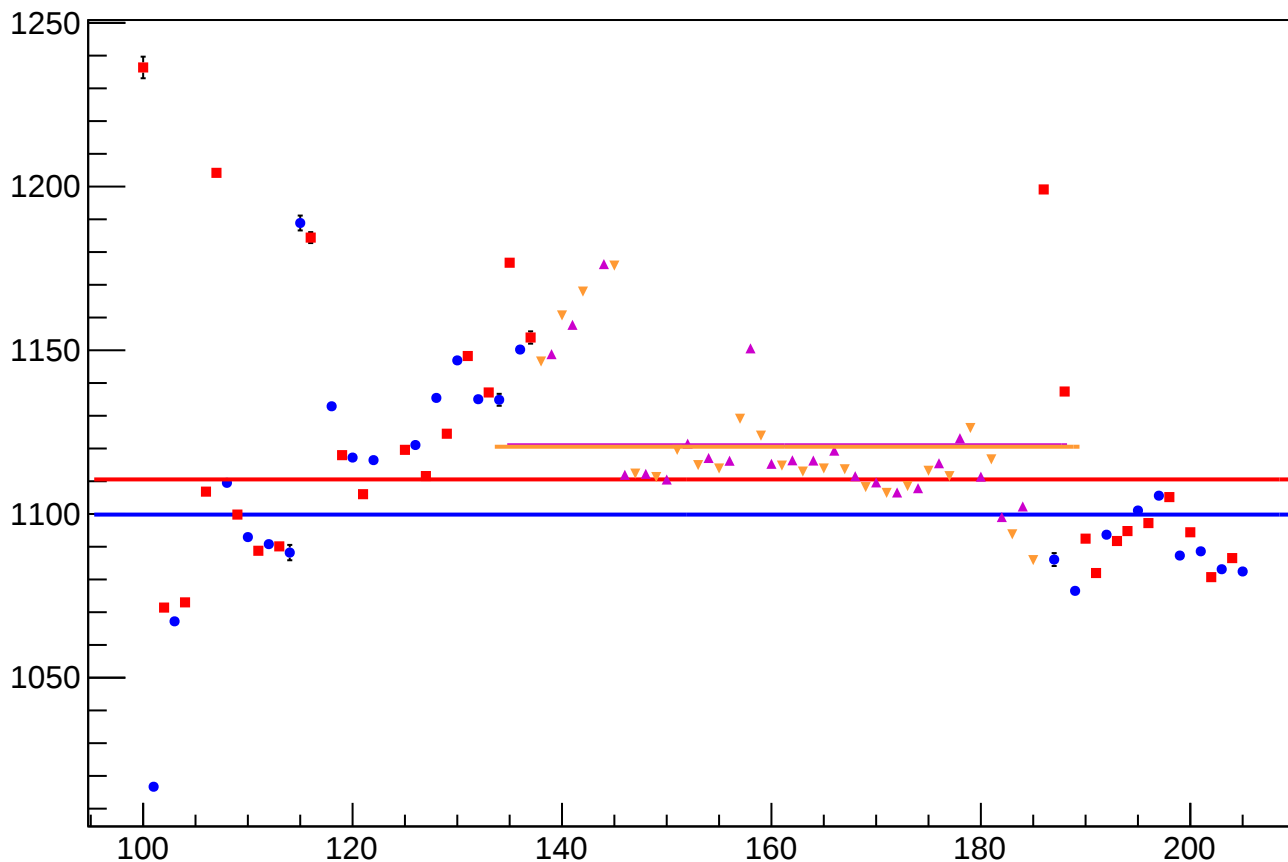
Right: 2104.029 $\pm$ 212.627 χ^2 /NDF: 39.0/53

In: 1950.035 $\pm$ 201.562 χ^2 /NDF: 43.8/47

Out: 1849.905 $\pm$ 197.908 χ^2 /NDF: 44.8/52

All: 1899.054 $\pm$ 141.216 χ^2 /NDF: 88.7/100

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1099.816 $\pm$ 0.216 χ^2 /NDF: 20927.8/24

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

Right Out: 1110.558 $\pm$ 0.209 χ^2 /NDF: 24825.4/28

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

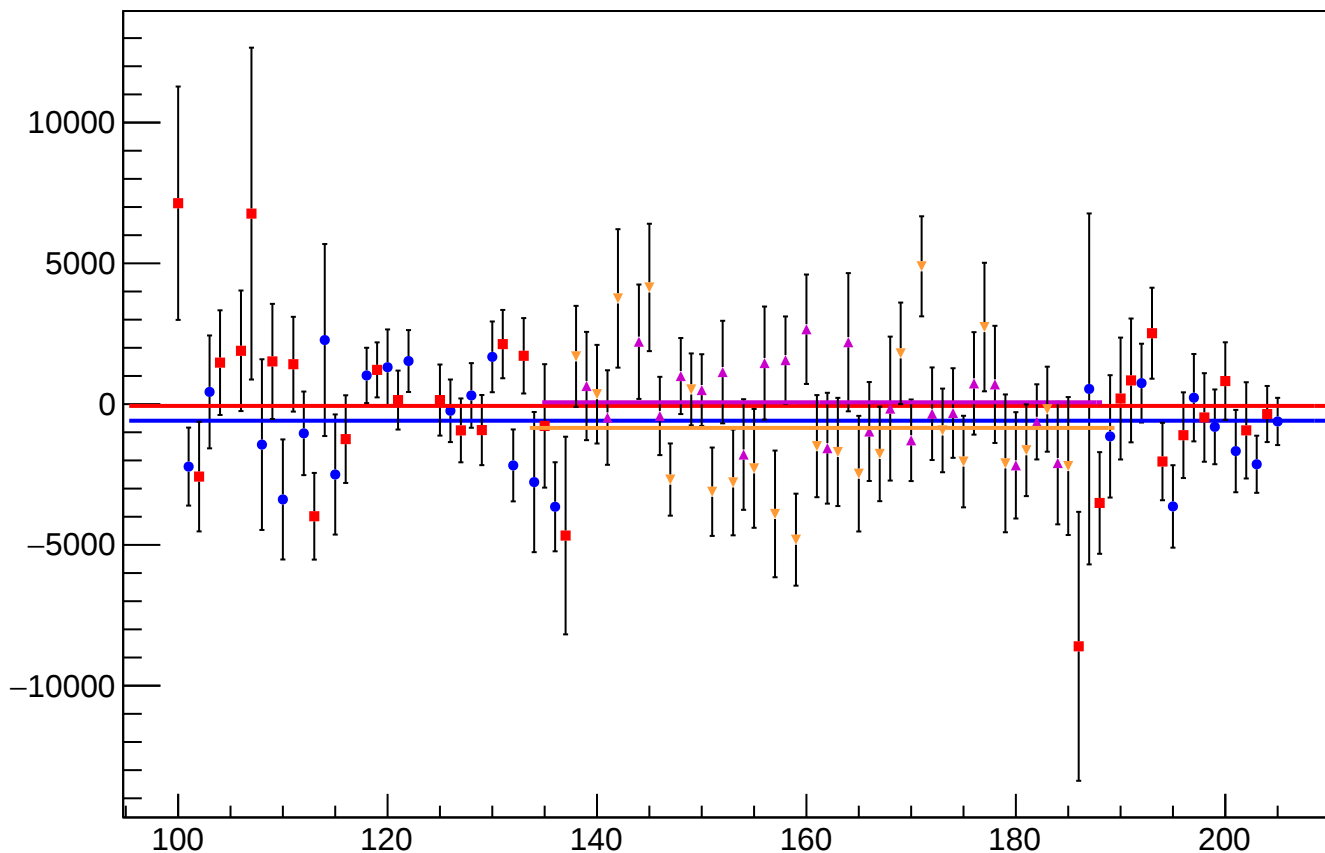
Right: 1105.365 $\pm$ 0.150 χ^2 /NDF: 47027.8/53

In: 1111.793 $\pm$ 0.143 χ^2 /NDF:35992.7/47

Out: 1116.074 $\pm$ 0.140 χ^2 /NDF:36336.9/52

All: 1113.973 $\pm$ 0.100 χ^2 /NDF: 72789.0/100

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -589.592 $\pm$ 280.494 χ^2 /NDF: 32.0/24

Left Out: -845.009 $\pm$ 361.141 χ^2 /NDF:43.2/23

Right Out: -63.478 $\pm$ 286.105 χ^2 /NDF: 38.6/28

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

Left: -386.655 $\pm$ 254.528 χ^2 /NDF: 58.6/46

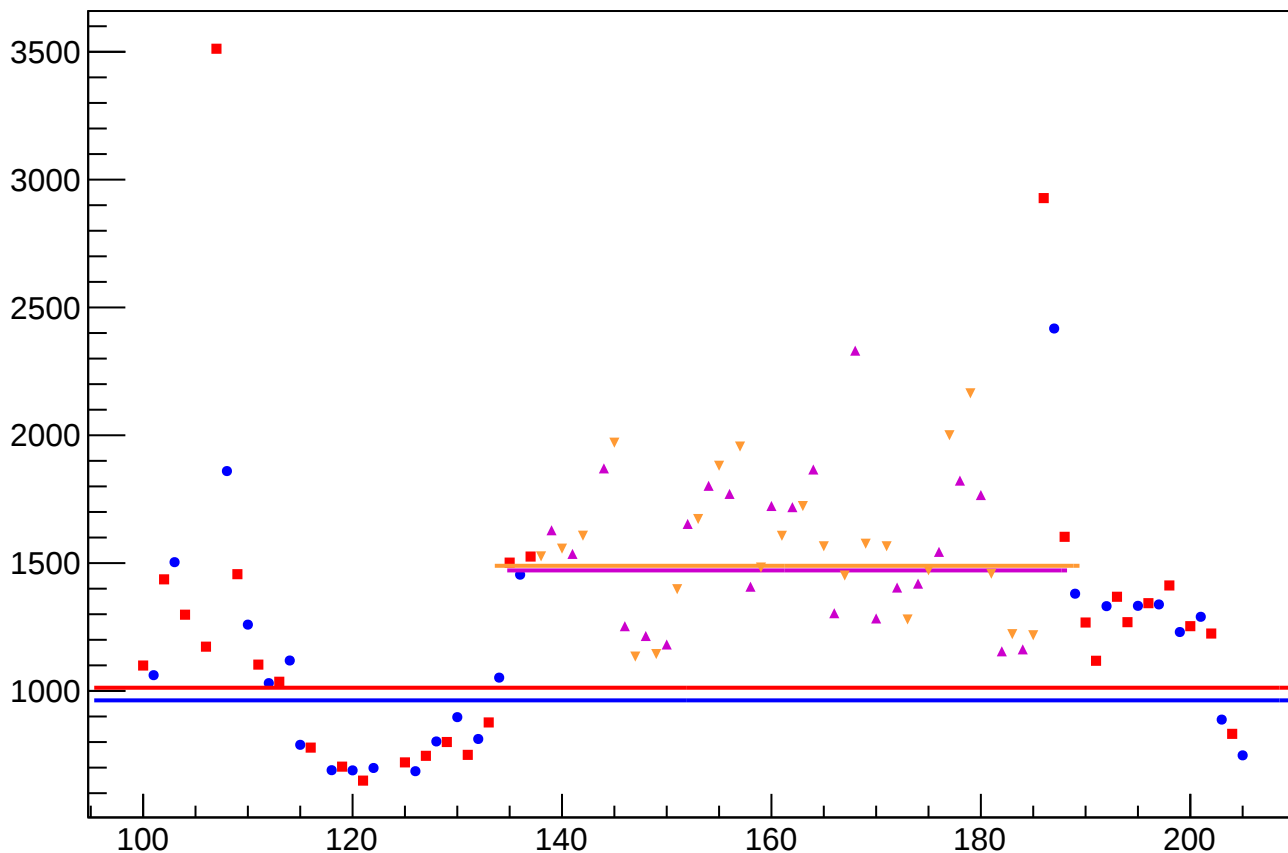
Right: -331.745 $\pm$ 200.294 χ^2 /NDF: 72.3/53

In: -340.998 $\pm$ 220.979 χ^2 /NDF:46.2/47

Out: -364.841 $\pm$ 224.259 χ^2 /NDF:84.7/52

All: -352.744 $\pm$ 157.402 χ^2 /NDF: 130.9/100

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 963.086+/-0.198 χ^2/NDF : 2026635.9/24

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

Right Out: 1012.543+/-0.202 χ^2/NDF : 2748276.0/28

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

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

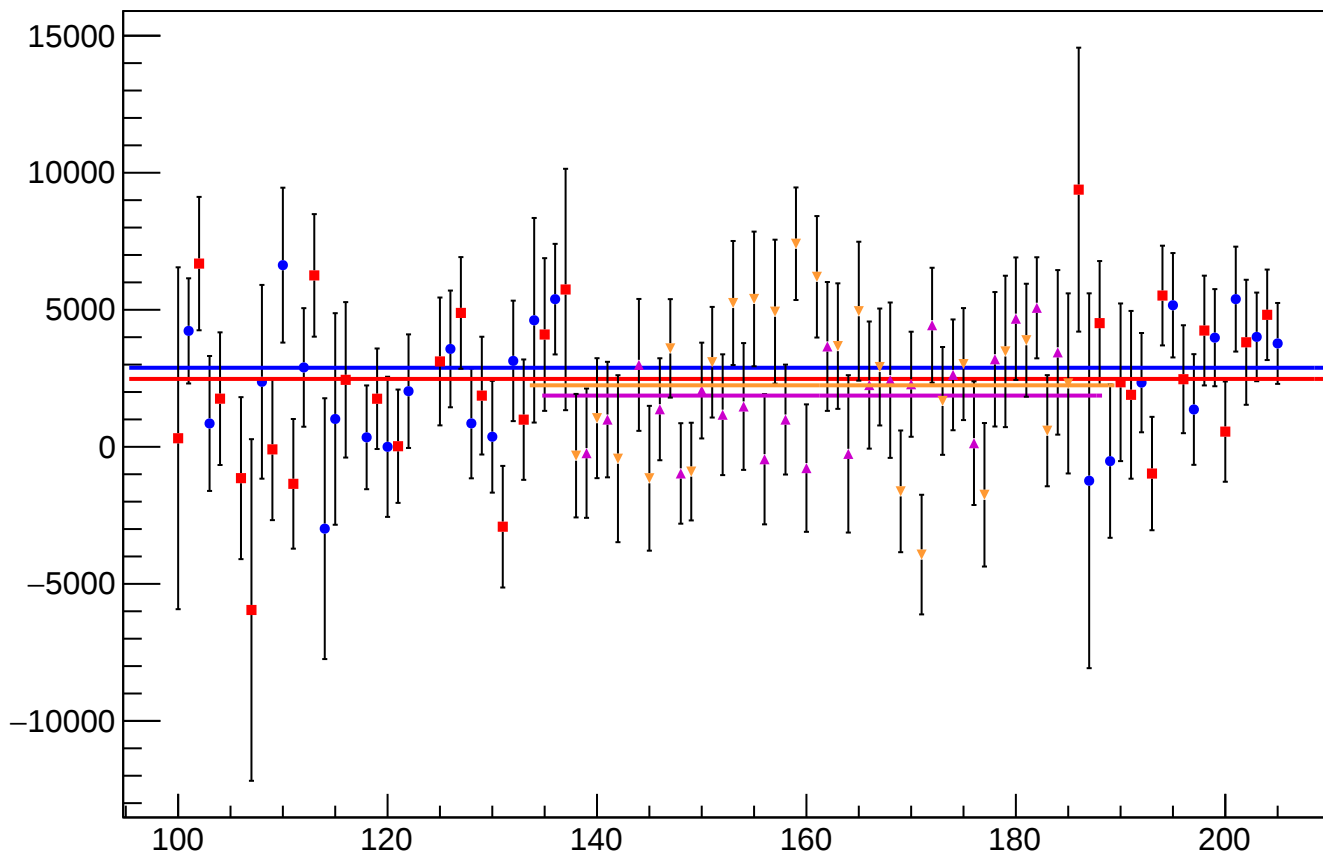
Right: 987.325+/-0.142 χ^2/NDF : 4805384.7/53

In: 1155.909+/-0.156 χ^2/NDF :5623471.9/47

Out: 1196.464+/-0.159 χ^2/NDF :5900862.0/52

All: 1175.887+/-0.111 χ^2/NDF : 11557518.7/1

asym_usl_mean vs Slug, Sign Corrected



Right In: 2884.717 $\pm$ 435.446 χ^2 /NDF: 19.2/24

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

Right Out: 2477.631 $\pm$ 435.051 χ^2 /NDF: 35.8/28

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

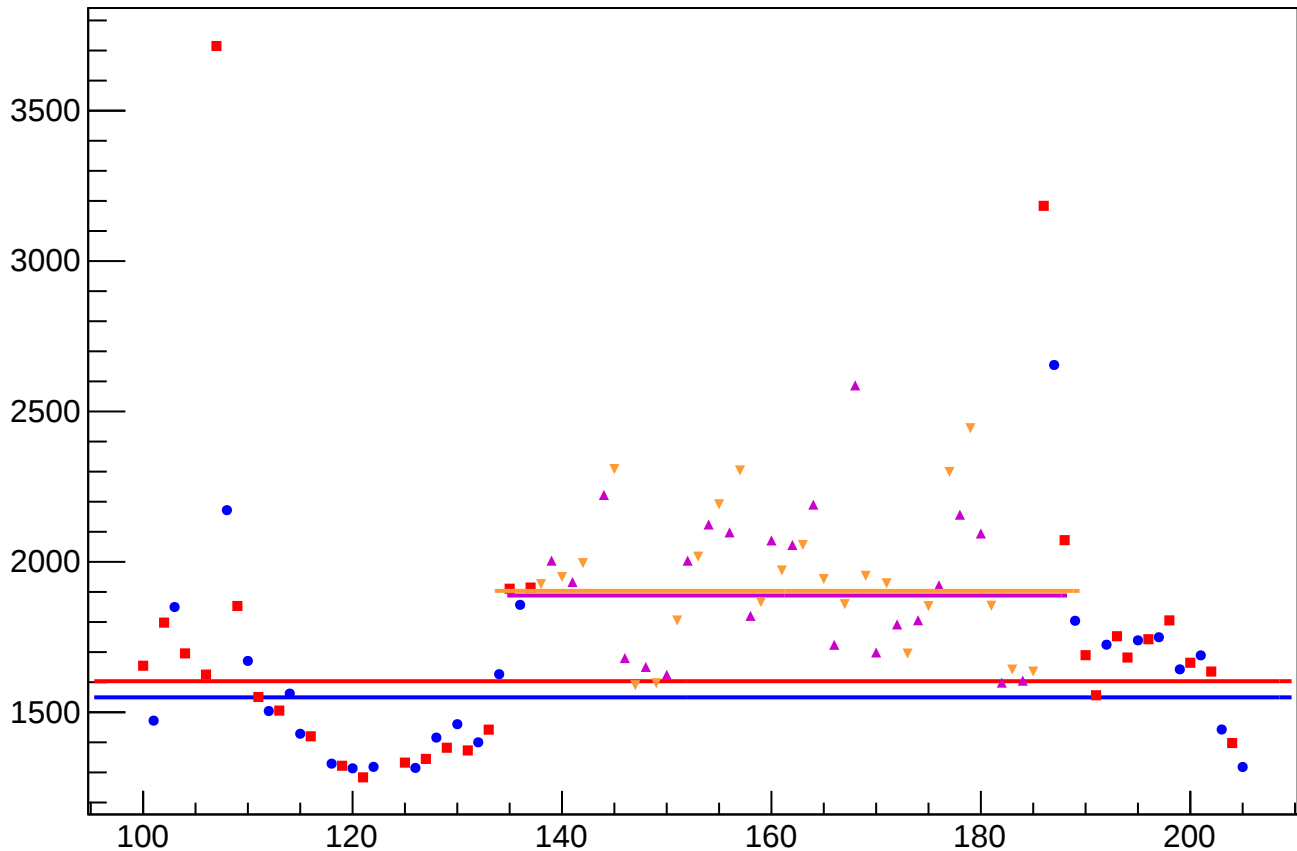
Right: 2680.989 $\pm$ 307.767 χ^2 /NDF: 55.5/53

In: 2400.049 $\pm$ 314.746 χ^2 /NDF:36.7/47

Out: 2366.624 $\pm$ 314.929 χ^2 /NDF:74.5/52

All: 2383.346 $\pm$ 222.624 χ^2 /NDF: 111.2/100

asym_usl_rms vs Slug, Sign Corrected



Right In: 1549.550 +/- 0.308 χ^2/NDF : 465198.3/24

Left Out: 1903.581 +/- 0.323 χ^2/NDF : 461788.9/23

Right Out: 1603.230 +/- 0.308 χ^2/NDF : 871700.3/28

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

Left: 1895.834 +/- 0.228 χ^2/NDF : 967507.1/46

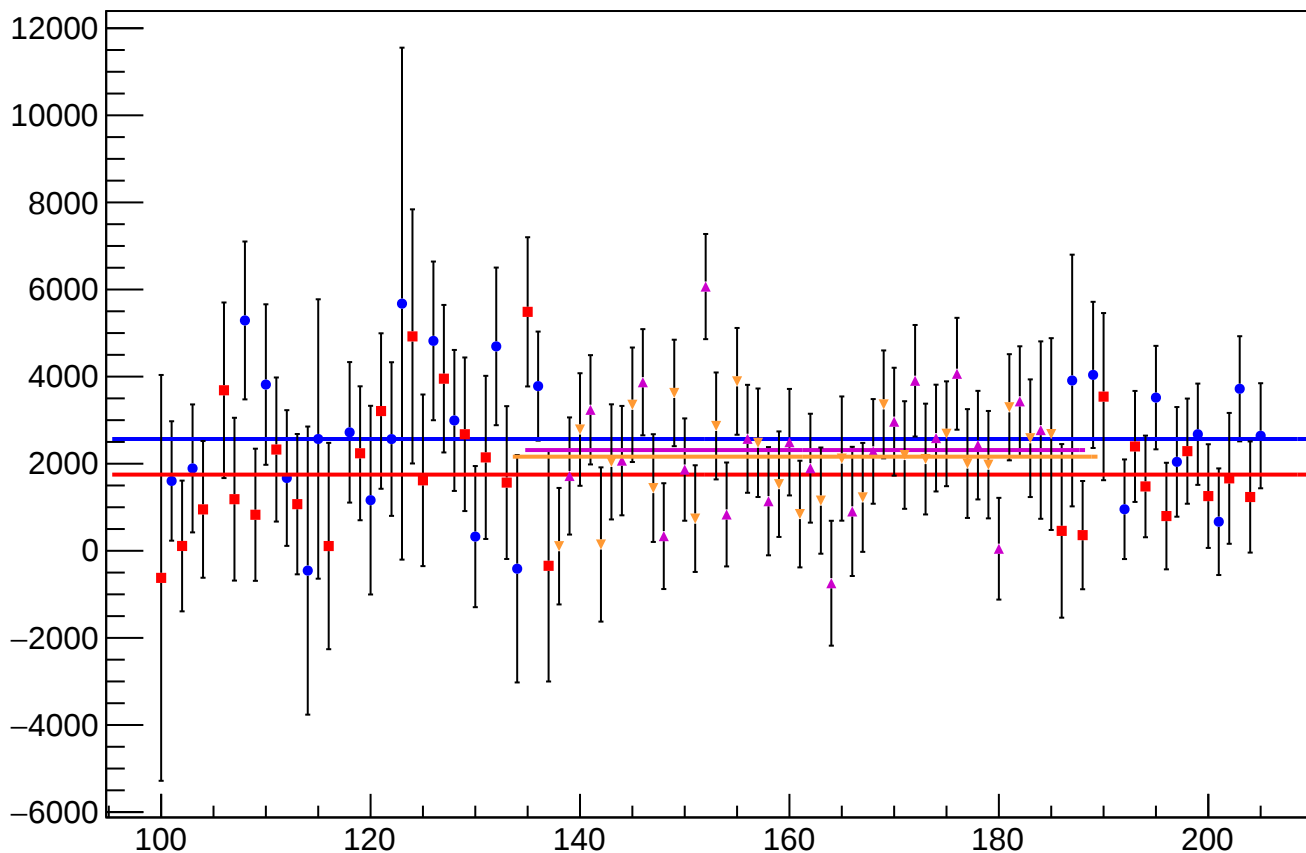
Right: 1576.414 +/- 0.218 χ^2/NDF : 1352109.3/53

In: 1711.231 +/- 0.223 χ^2/NDF : 1547162.1/47

Out: 1746.192 +/- 0.223 χ^2/NDF : 1787222.2/52

All: 1728.701 +/- 0.157 χ^2/NDF : 3346714.6/10

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2567.288 $\pm$ 306.370 χ^2 /NDF: 19.6/25

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

Right Out: 1749.823 $\pm$ 297.462 χ^2 /NDF: 17.2/28

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

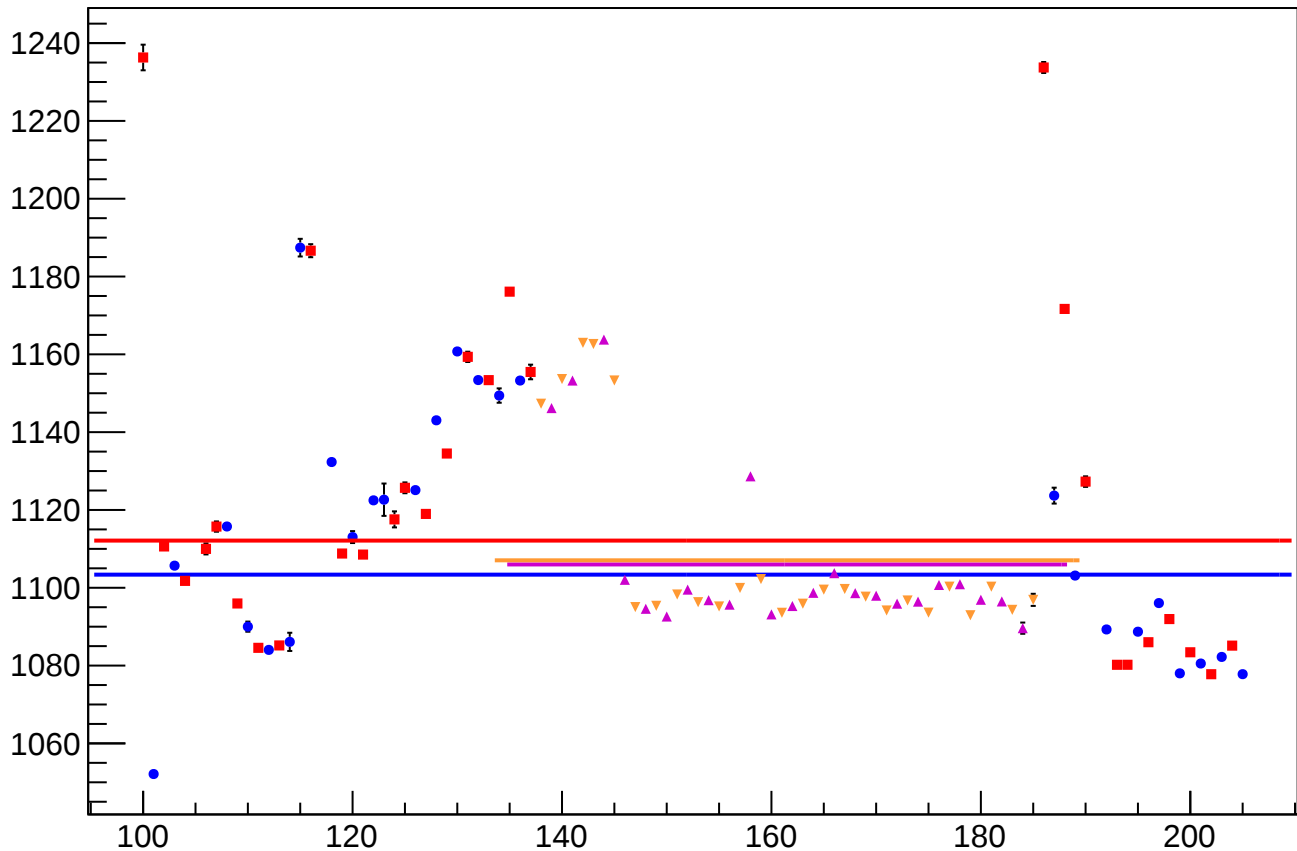
Right: 2146.499 $\pm$ 213.417 χ^2 /NDF: 40.4/54

In: 2421.849 $\pm$ 200.179 χ^2 /NDF: 51.2/48

Out: 1985.097 $\pm$ 194.695 χ^2 /NDF: 33.4/53

All: 2197.409 $\pm$ 139.568 χ^2 /NDF: 87.1/102

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1103.374 $\pm$ 0.217 χ^2 /NDF: 18924.3/25

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

Right Out: 1112.128 $\pm$ 0.210 χ^2 /NDF: 30495.5/28

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

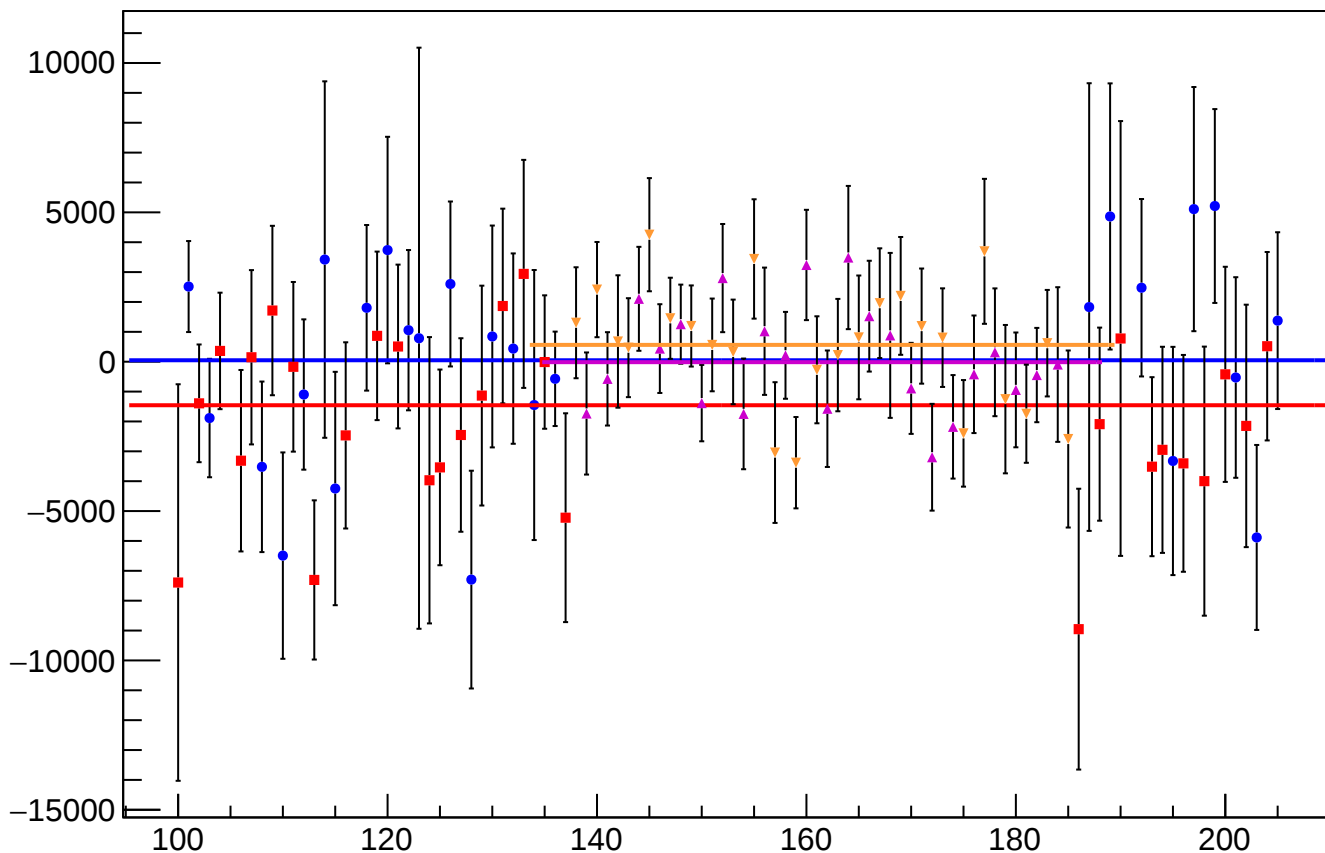
Right: 1107.880 $\pm$ 0.151 χ^2 /NDF: 50260.4/54

In: 1104.877 $\pm$ 0.142 χ^2 /NDF: 30559.7/48

Out: 1109.229 $\pm$ 0.138 χ^2 /NDF: 46003.3/53

All: 1107.113 $\pm$ 0.099 χ^2 /NDF: 77048.9/102

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 48.516 $\pm$ 574.347 χ^2/NDF : 27.8/25

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

Right Out: -1457.152 $\pm$ 578.330 χ^2/NDF : 19.1/28

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

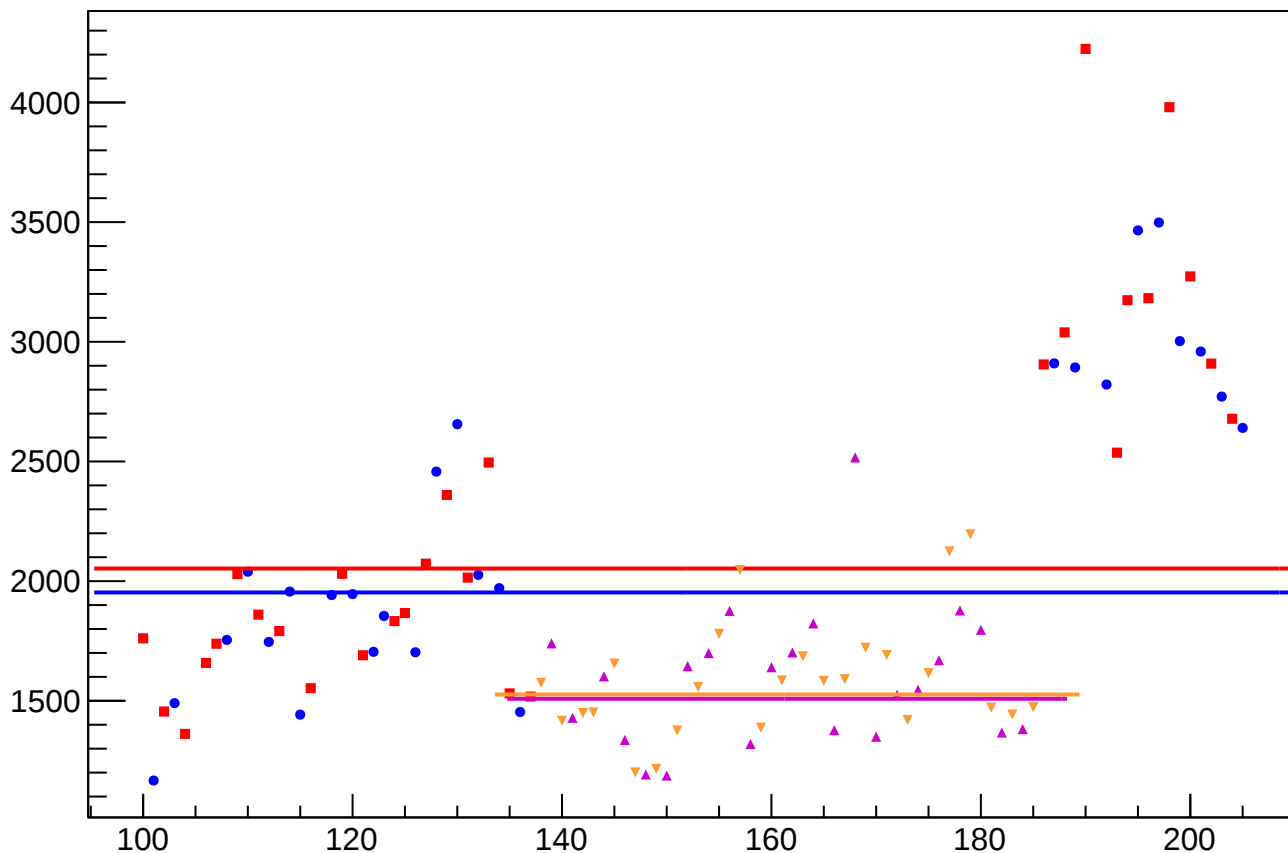
Right: -699.115 $\pm$ 407.525 χ^2/NDF : 50.3/54

In: 3.035 $\pm$ 309.169 χ^2/NDF : 48.0/48

Out: -3.003 $\pm$ 306.176 χ^2/NDF : 54.6/53

All: -0.013 $\pm$ 217.549 χ^2/NDF : 102.6/102

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1952.607 $\pm$ 0.406

χ^2 /NDF: 2573639.9/25

Left Out: 1526.391 $\pm$ 0.255

χ^2 /NDF: 753714.4/24

Right Out: 2052.704 $\pm$ 0.409

χ^2 /NDF: 2469831.5/28

Left In: 1508.581 $\pm$ 0.259

χ^2 /NDF: 931684.8/22

Left: 1517.632 $\pm$ 0.182

χ^2 /NDF: 1687794.7/47

Right: 2002.310 $\pm$ 0.288

χ^2 /NDF: 5073634.5/54

In: 1637.243 $\pm$ 0.219

χ^2 /NDF: 4354314.6/48

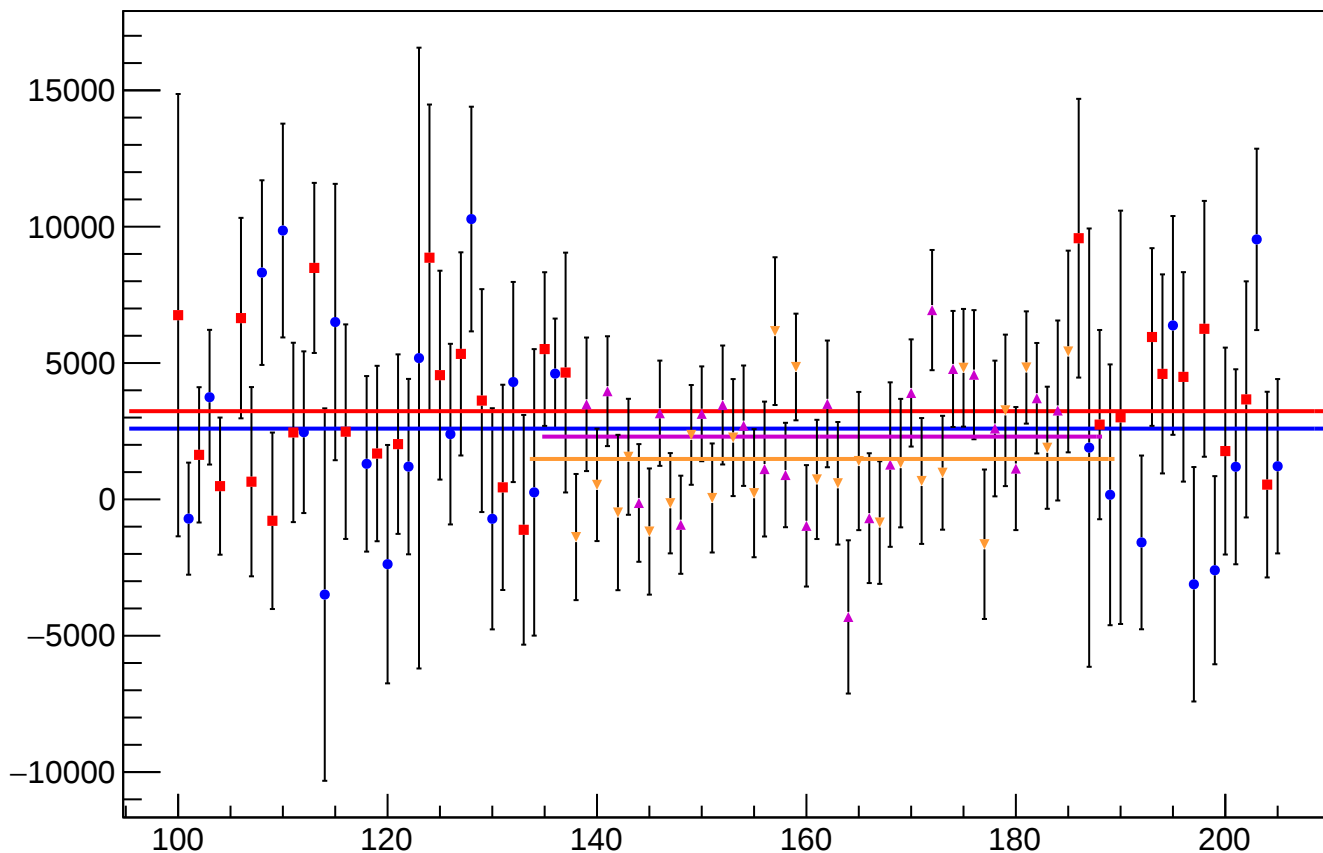
Out: 1673.905 $\pm$ 0.216

χ^2 /NDF: 4415695.2/53

All: 1655.753 $\pm$ 0.154

χ^2 /NDF: 8784208.6/10

asym_usr_mean vs Slug, Sign Corrected



Right In: 2594.891 $\pm$ 678.610 χ^2 /NDF: 29.3/25

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

Right Out: 3234.271 $\pm$ 673.588 χ^2 /NDF: 15.6/28

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

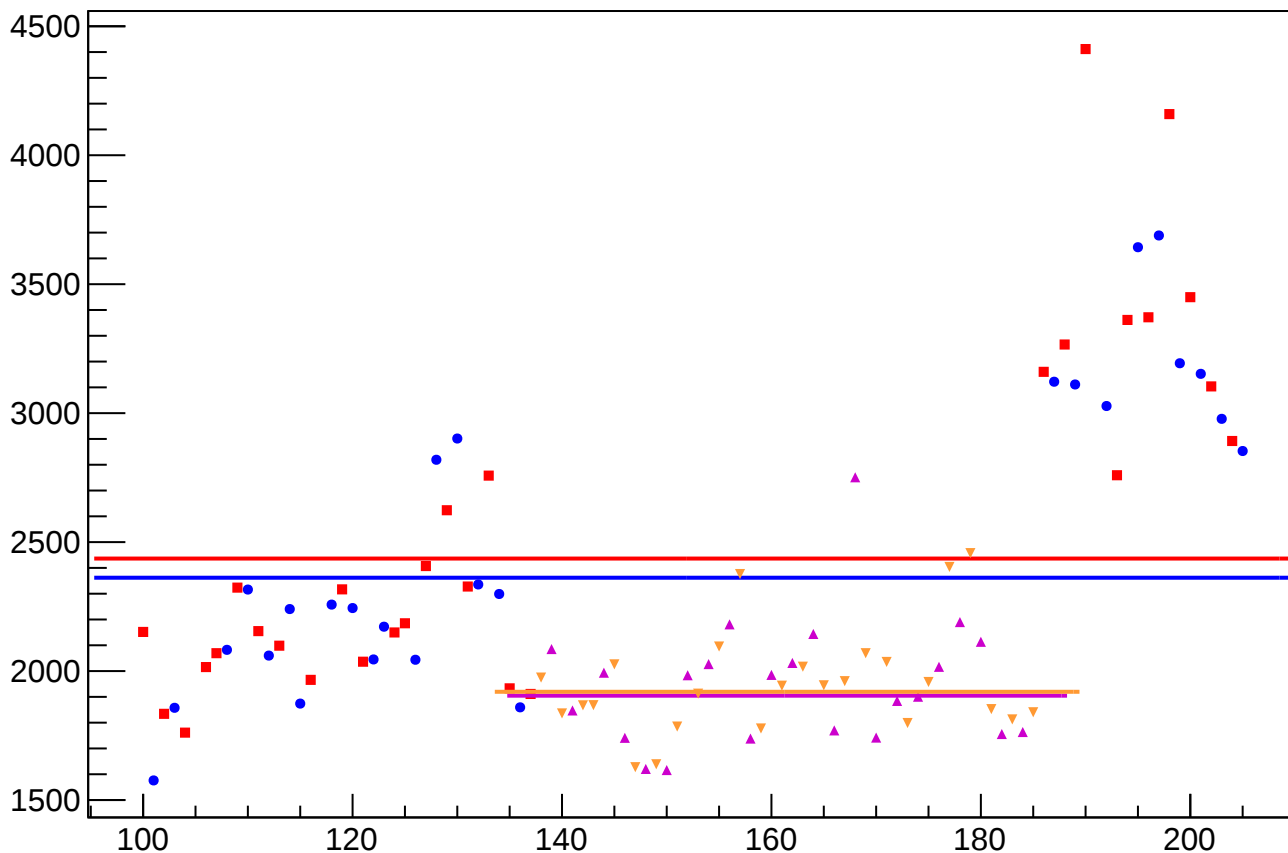
Right: 2916.956 $\pm$ 478.064 χ^2 /NDF: 45.4/54

In: 2393.430 $\pm$ 380.220 χ^2 /NDF:54.3/48

Out: 2022.950 $\pm$ 374.171 χ^2 /NDF:41.2/53

All: 2205.220 $\pm$ 266.692 χ^2 /NDF: 95.9/102

asym_usr_rms vs Slug, Sign Corrected



Right In: 2361.957+/-0.480 χ^2/NDF : 1534823.3/25

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

Right Out: 2436.257+/-0.476 χ^2/NDF : 1591148.7/28

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

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

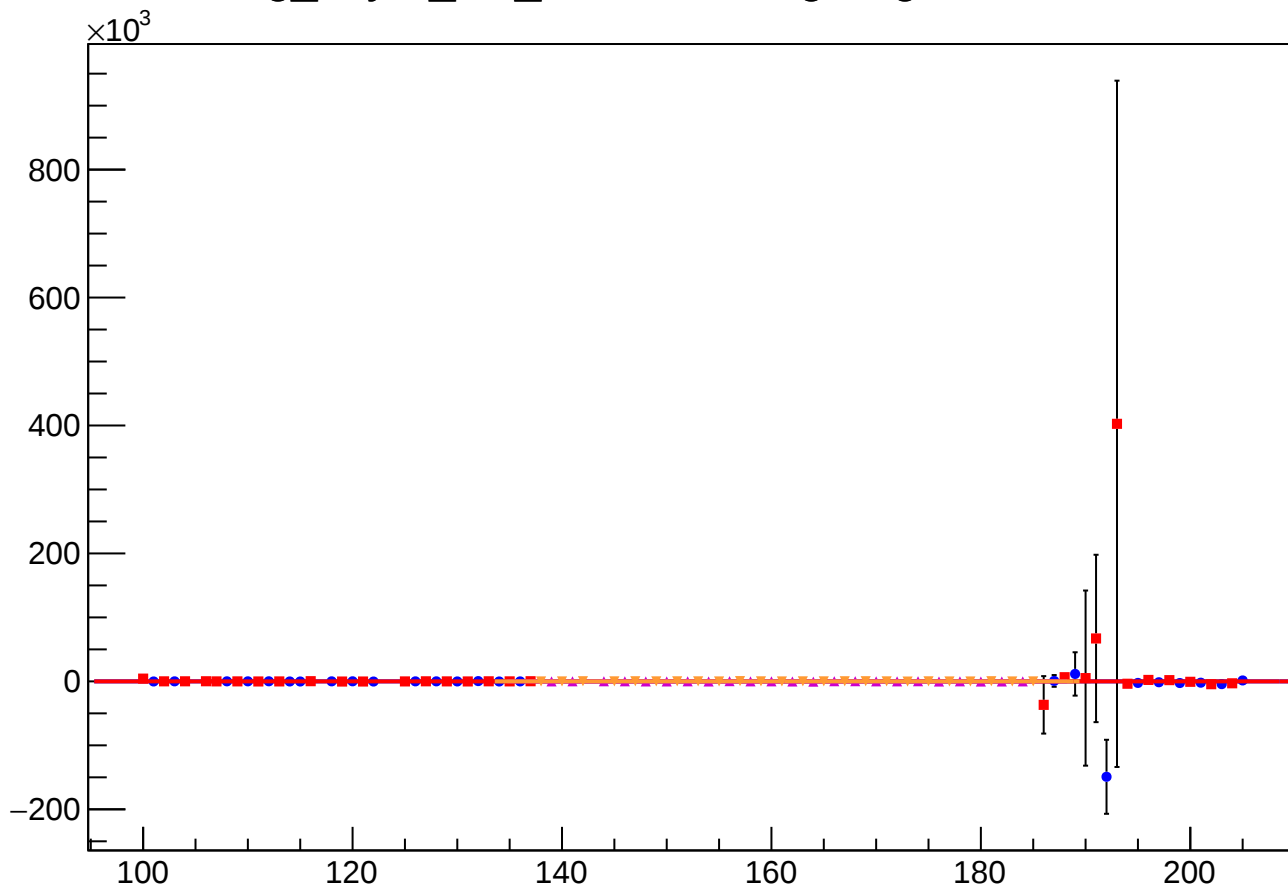
Right: 2399.383+/-0.338 χ^2/NDF : 3138048.8/54

In: 2048.197+/-0.269 χ^2/NDF : 2605358.0/48

Out: 2079.116+/-0.265 χ^2/NDF : 2770523.3/53

All: 2063.904+/-0.189 χ^2/NDF : 5382600.0/100

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.614 ± 36.763 χ^2/NDF : 25.4/24

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

Right Out: 1.512 ± 36.749 χ^2/NDF : 18.5/28

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

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

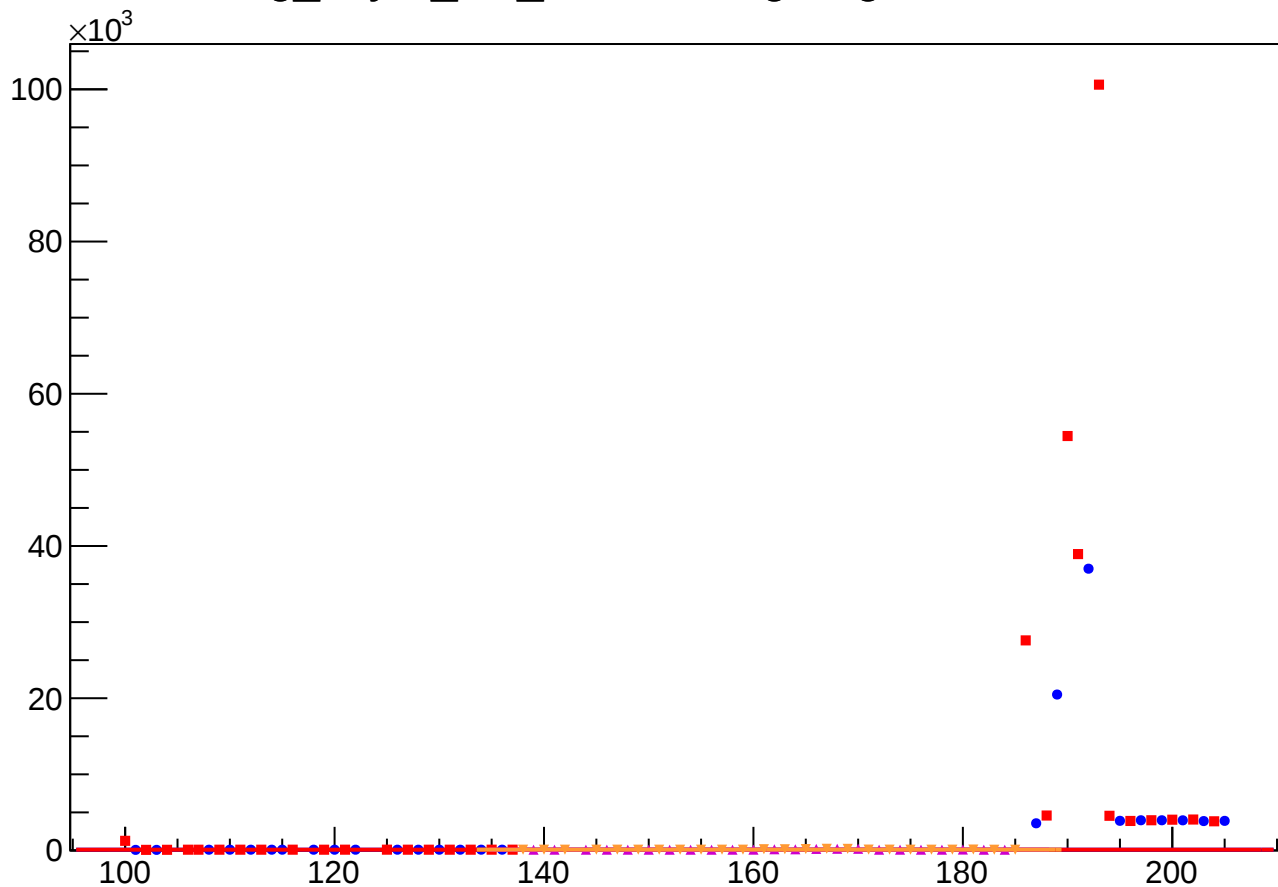
Right: -0.051 ± 25.990 χ^2/NDF : 43.9/53

In: 15.830 ± 21.413 χ^2/NDF : 62.1/47

Out: 8.627 ± 21.365 χ^2/NDF : 54.4/52

All: 12.220 ± 15.125 χ^2/NDF : 116.6/100

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 95.765 $\pm$ 0.026 χ^2 /NDF: 11180968.5/24

Left Out: 108.059 $\pm$ 0.019 χ^2 /NDF: 1434979.3/23

Right Out: 97.924 $\pm$ 0.026 χ^2 /NDF: 10684100.9/28

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

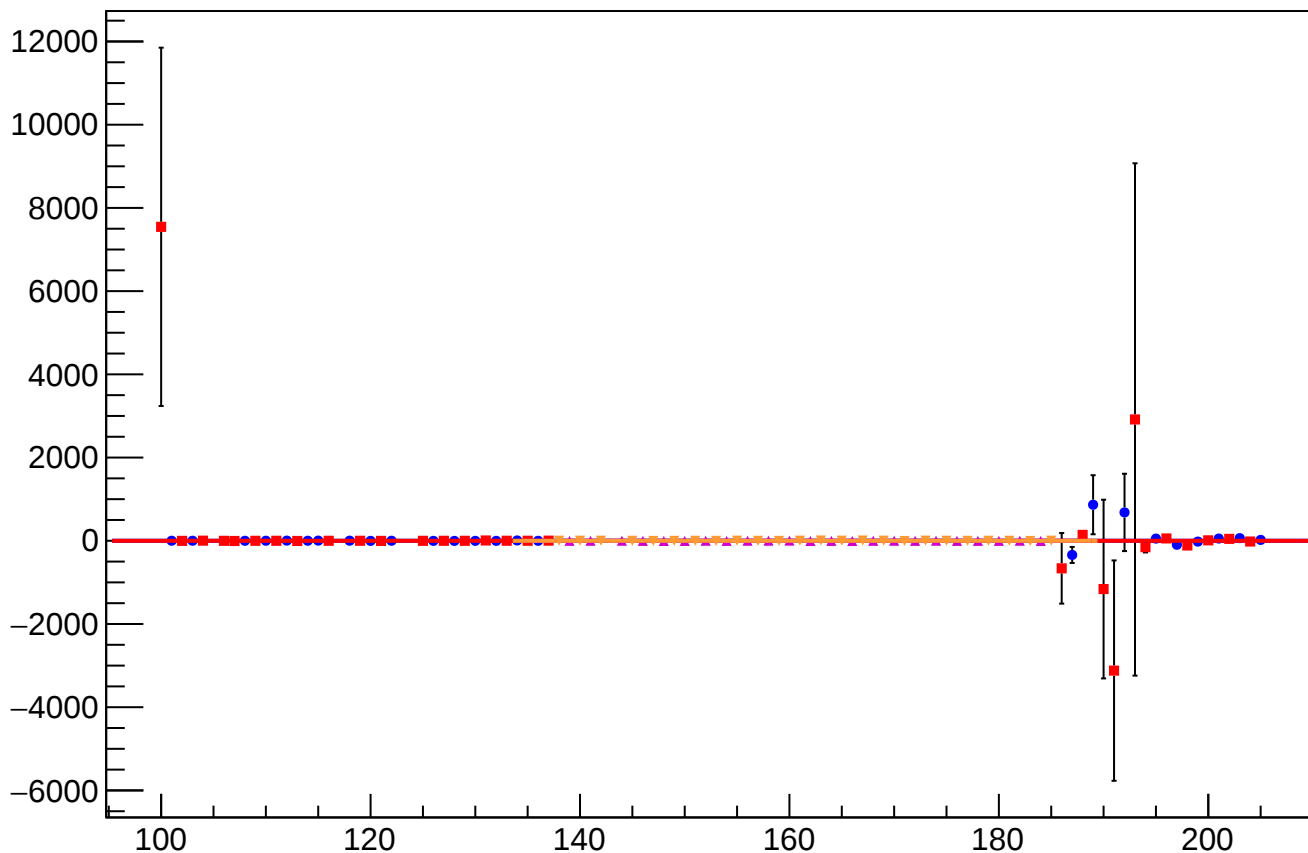
Right: 96.845 $\pm$ 0.018 χ^2 /NDF: 21868519.4/53

In: 103.633 $\pm$ 0.015 χ^2 /NDF: 12810632.0/47

Out: 104.633 $\pm$ 0.015 χ^2 /NDF: 12219789.6/52

All: 104.134 $\pm$ 0.011 χ^2 /NDF: 25032610.9/100

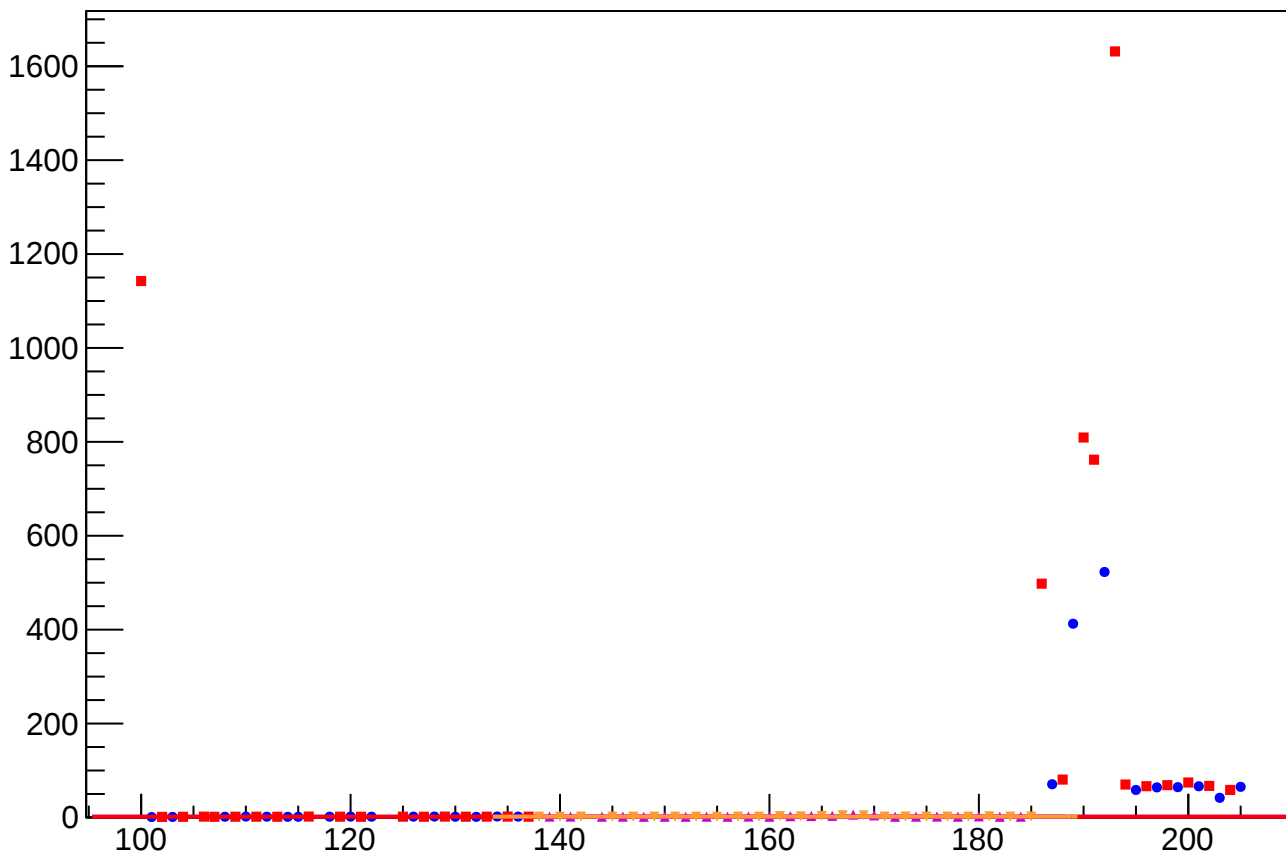
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.395+/-0.617 χ^2/NDF : 19.2/24
Left Out: -0.534+/-0.475 χ^2/NDF : 30.5/23
Right Out: -0.346+/-0.644 χ^2/NDF : 29.7/28
Left In: -0.067+/-0.485 χ^2/NDF : 25.0/22

Left: -0.306+/-0.339 χ^2/NDF : 56.0/46
Right: 0.040+/-0.445 χ^2/NDF : 49.6/53
In: 0.109+/-0.381 χ^2/NDF : 44.6/47
Out: -0.468+/-0.382 χ^2/NDF : 60.2/52
All: -0.179+/-0.270 χ^2/NDF : 105.9/100

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.446+/-0.000 χ^2/NDF : 9718957.0/24

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

Right Out: 1.579+/-0.000 χ^2/NDF : 9427265.3/28

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

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

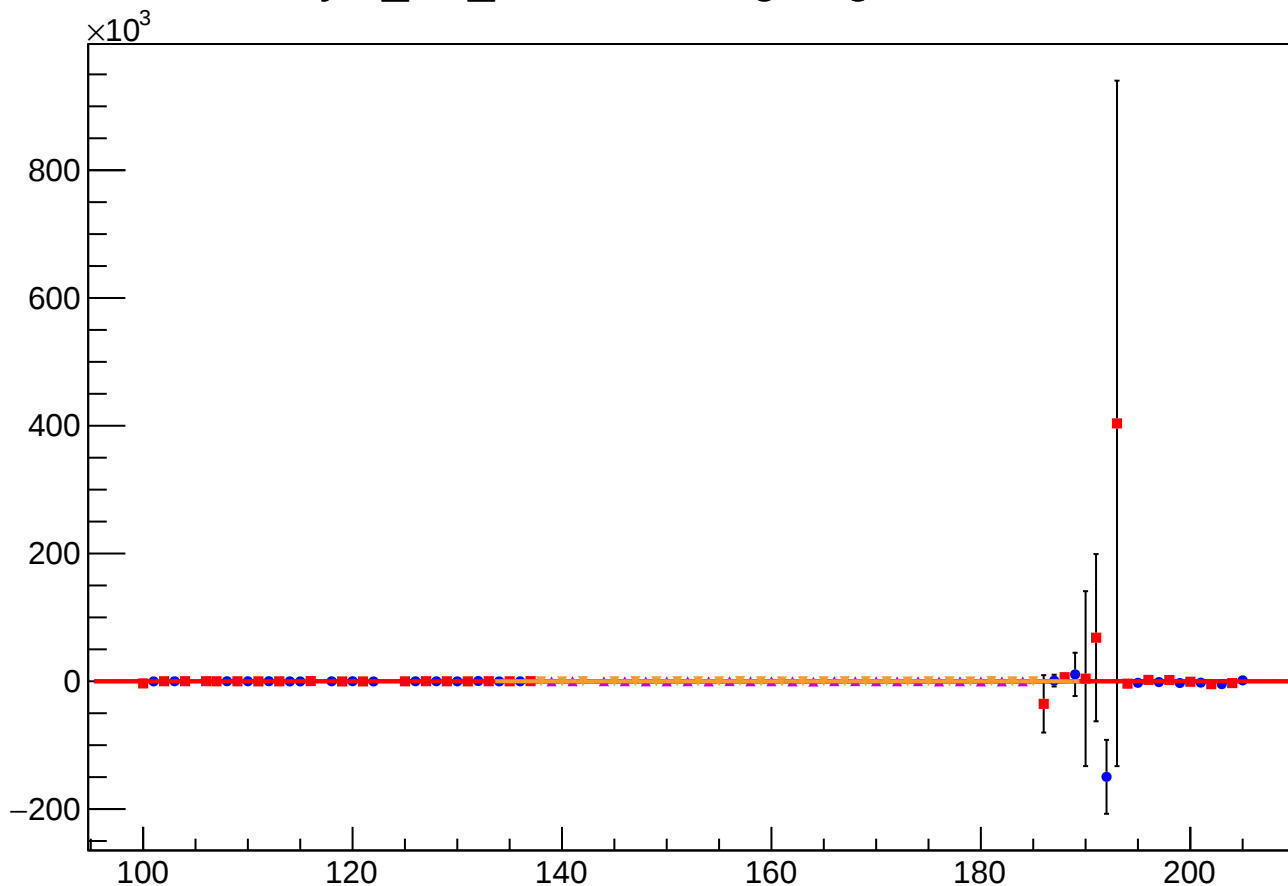
Right: 1.510+/-0.000 χ^2/NDF : 19191263.8/53

In: 1.666+/-0.000 χ^2/NDF :12054073.0/47

Out: 1.704+/-0.000 χ^2/NDF :11142002.1/52

All: 1.685+/-0.000 χ^2/NDF : 23205632.5/100

asym_dsl_mean vs Slug, Sign Corrected



Right In: -1.326 ± 36.773 χ^2/NDF : 25.6/24

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

Right Out: 1.278 ± 36.759 χ^2/NDF : 17.9/28

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

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

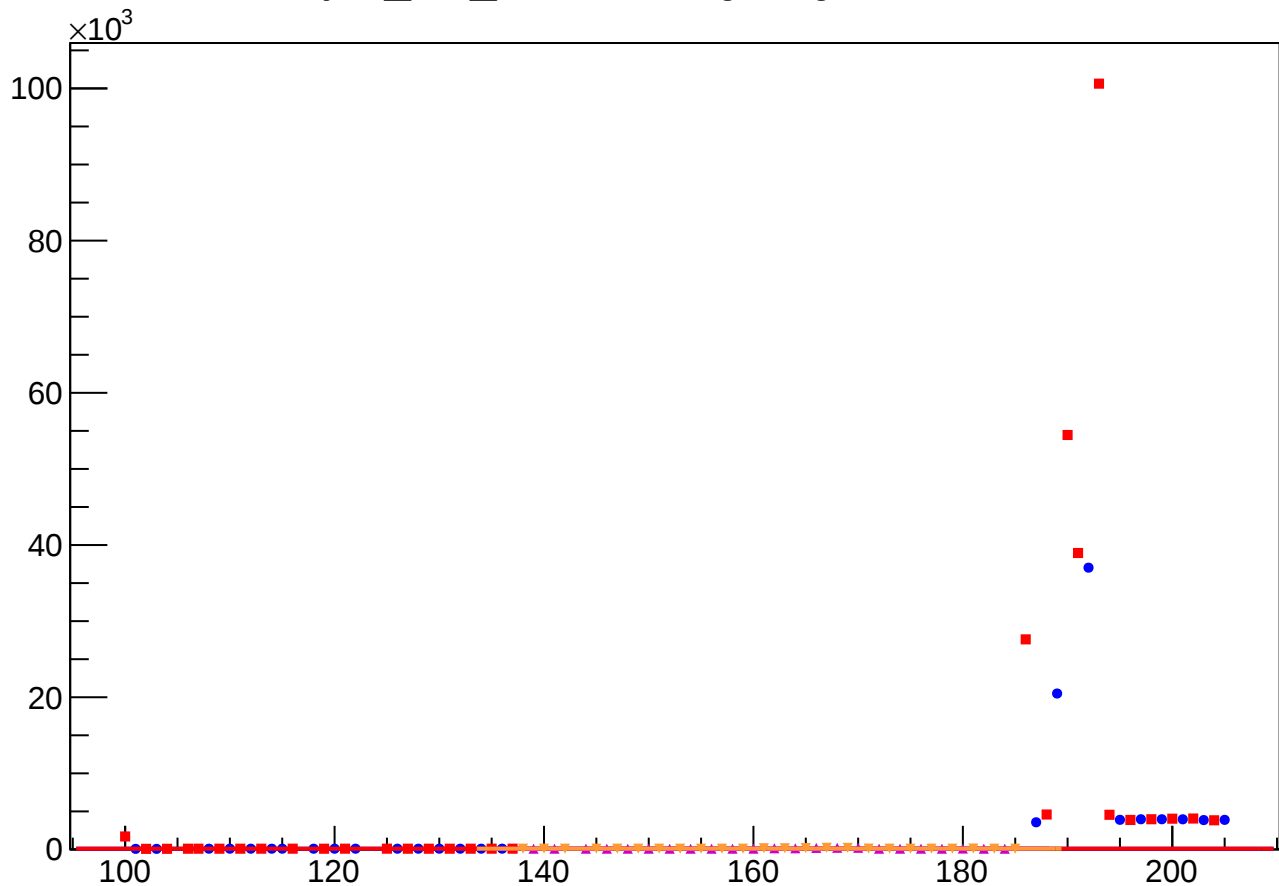
Right: -0.023 ± 25.997 χ^2/NDF : 43.6/53

In: 16.274 ± 21.420 χ^2/NDF : 61.7/47

Out: 9.003 ± 21.372 χ^2/NDF : 53.7/52

All: 12.630 ± 15.129 χ^2/NDF : 115.5/100

asym_dsl_rms vs Slug, Sign Corrected



Right In: 95.790 $\pm$ 0.026 χ^2 /NDF: 11180961.4/24

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

Right Out: 97.933 $\pm$ 0.026 χ^2 /NDF: 10689364.5/28

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

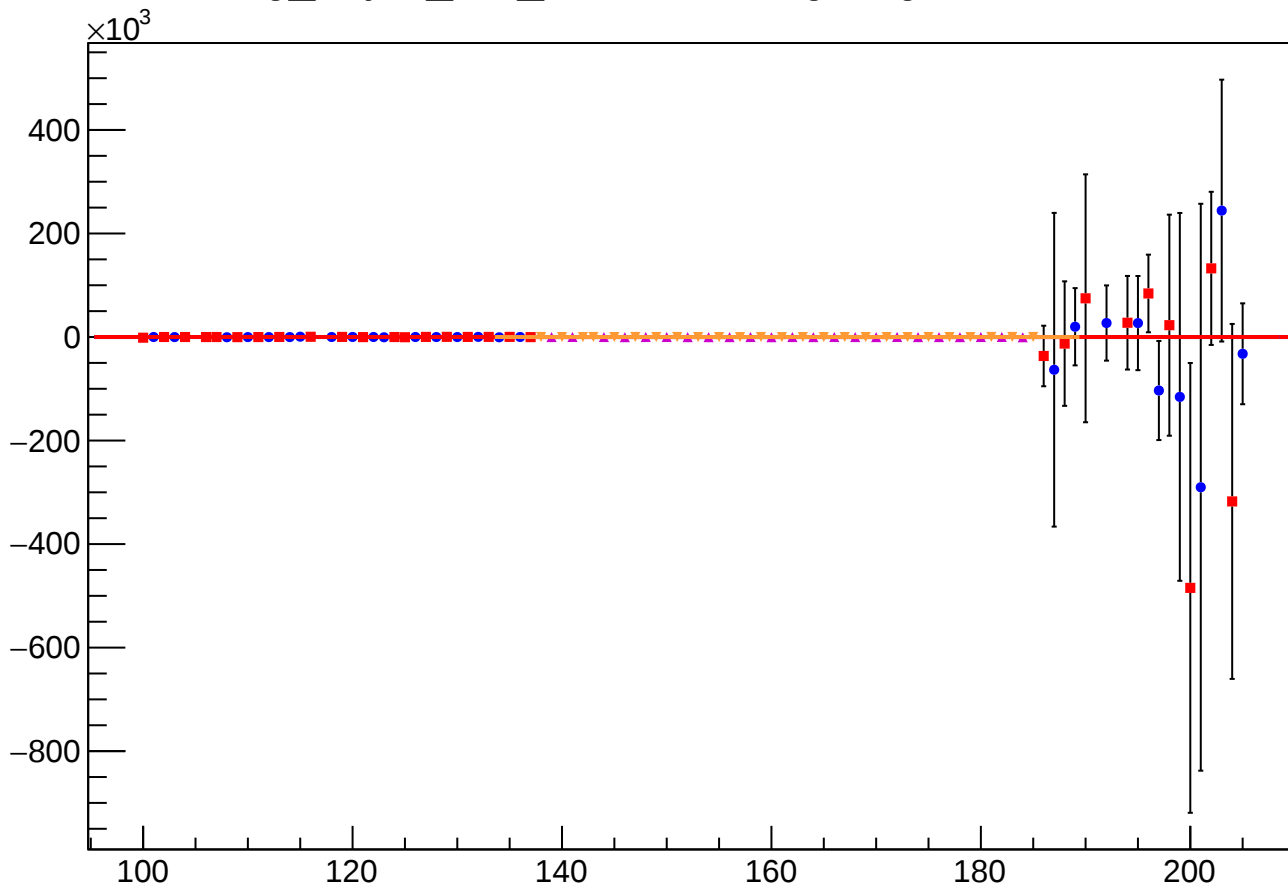
Right: 96.862 $\pm$ 0.018 χ^2 /NDF: 21873724.8/53

In: 103.661 $\pm$ 0.015 χ^2 /NDF: 12811993.7/47

Out: 104.657 $\pm$ 0.015 χ^2 /NDF: 12226814.0/52

All: 104.160 $\pm$ 0.011 χ^2 /NDF: 25040973.7/100

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.801 ± 46.841 $\chi^2/\text{NDF}: 17.4/25$

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

Right Out: 53.405 ± 47.775 $\chi^2/\text{NDF}: 20.2/27$

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

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

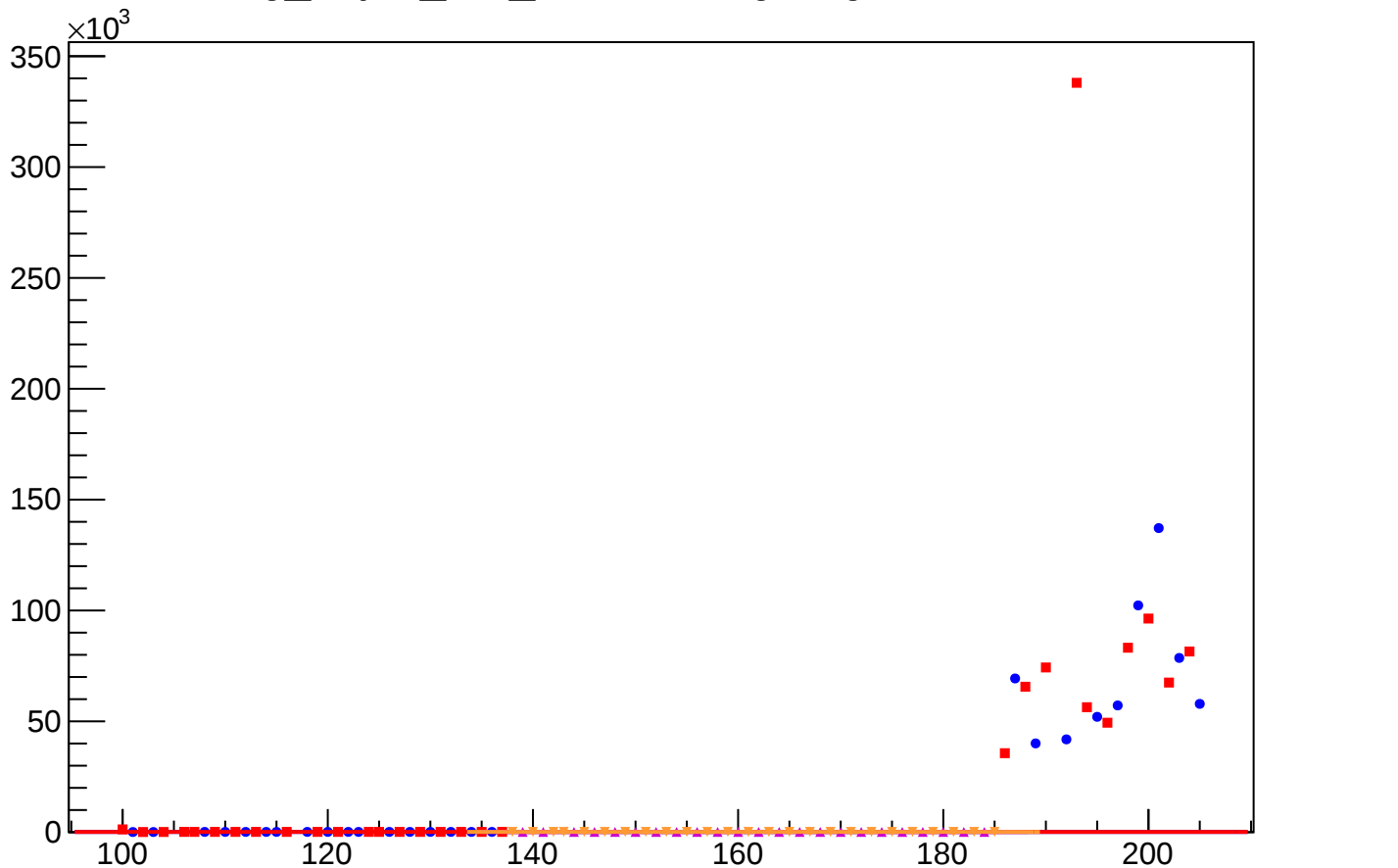
Right: 12.511 ± 33.447 $\chi^2/\text{NDF}: 39.0/53$

In: -52.582 ± 26.947 $\chi^2/\text{NDF}: 37.1/48$

Out: 7.739 ± 26.623 $\chi^2/\text{NDF}: 33.5/52$

All: -22.057 ± 18.939 $\chi^2/\text{NDF}: 73.1/101$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.853 $\pm$ 0.033 χ^2 /NDF: 5201990.2/25

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

Right Out: 124.820 $\pm$ 0.034 χ^2 /NDF: 5268232.2/28

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

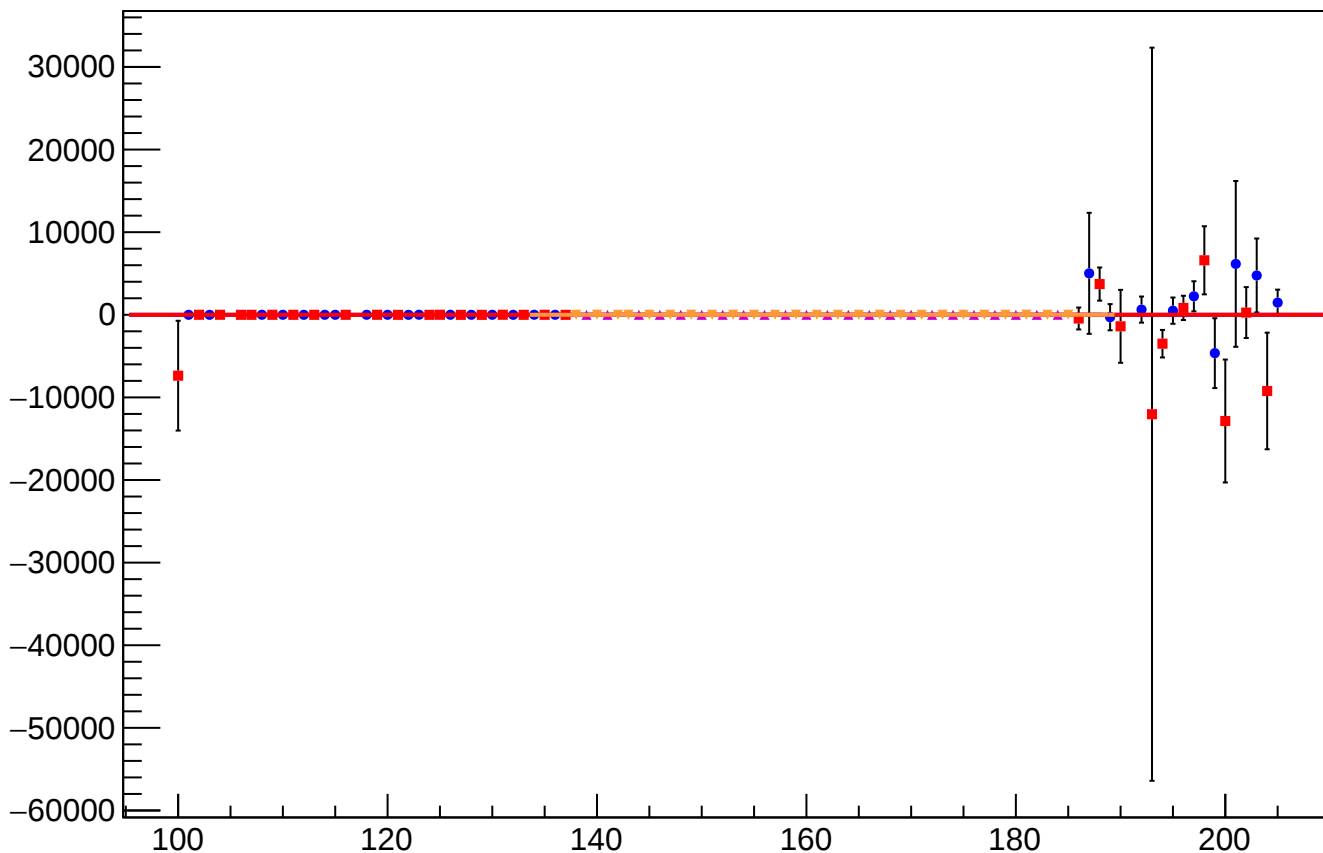
Right: 121.268 $\pm$ 0.024 χ^2 /NDF: 10491909.4/54

In: 131.202 $\pm$ 0.019 χ^2 /NDF: 5445218.0/48

Out: 133.808 $\pm$ 0.019 χ^2 /NDF: 5371350.7/53

All: 132.521 $\pm$ 0.013 χ^2 /NDF: 10826038.9/10

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.718 ± 0.810 χ^2/NDF : 18.1/25

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

Right Out: -0.638 ± 0.852 χ^2/NDF : 30.4/28

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

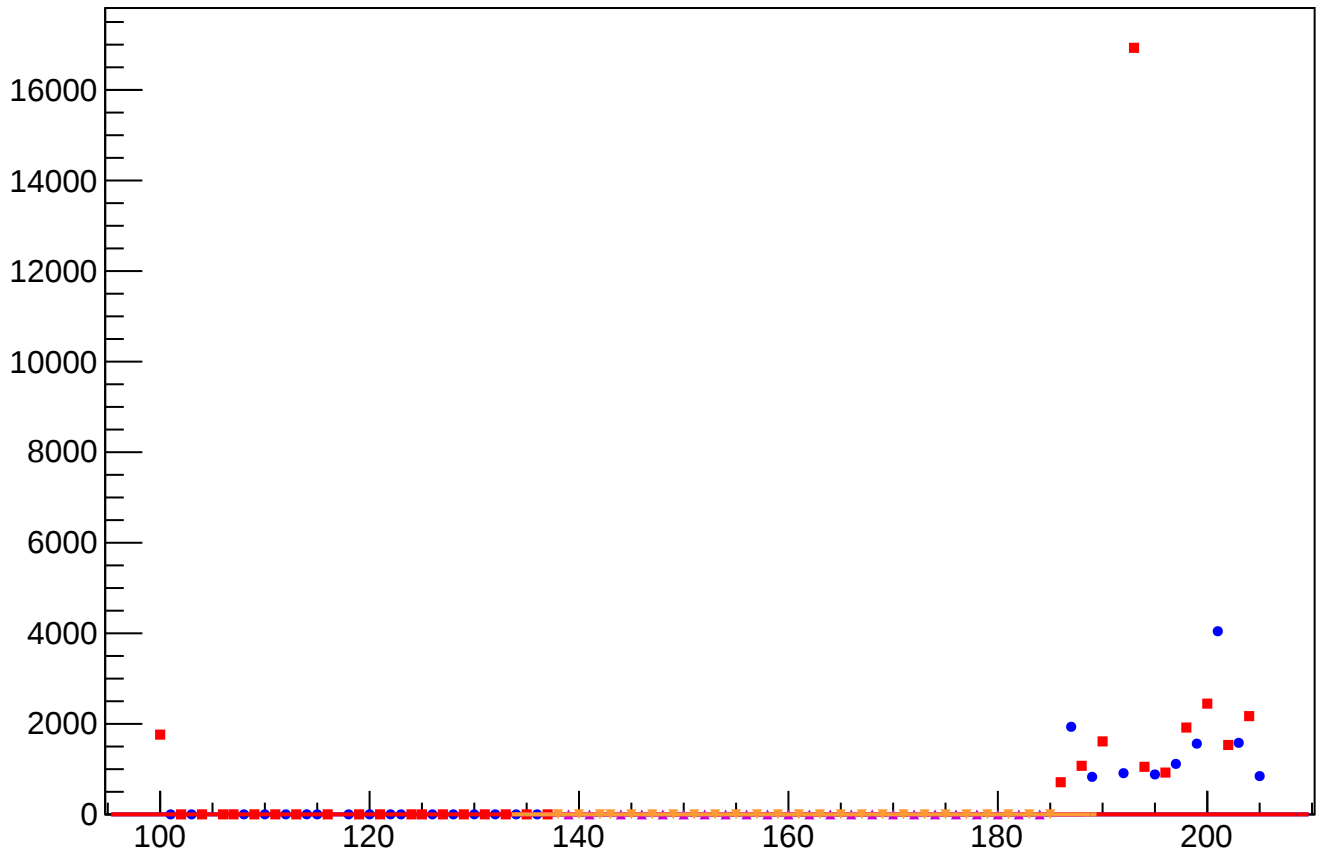
Right: -0.680 ± 0.587 χ^2/NDF : 48.5/54

In: -0.051 ± 0.471 χ^2/NDF : 39.8/48

Out: 0.139 ± 0.475 χ^2/NDF : 60.6/53

All: 0.043 ± 0.334 χ^2/NDF : 100.5/102

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867+/-0.001 χ^2/NDF : 4629576.0/25

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

Right Out: 2.065+/-0.001 χ^2/NDF : 5145331.0/28

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

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

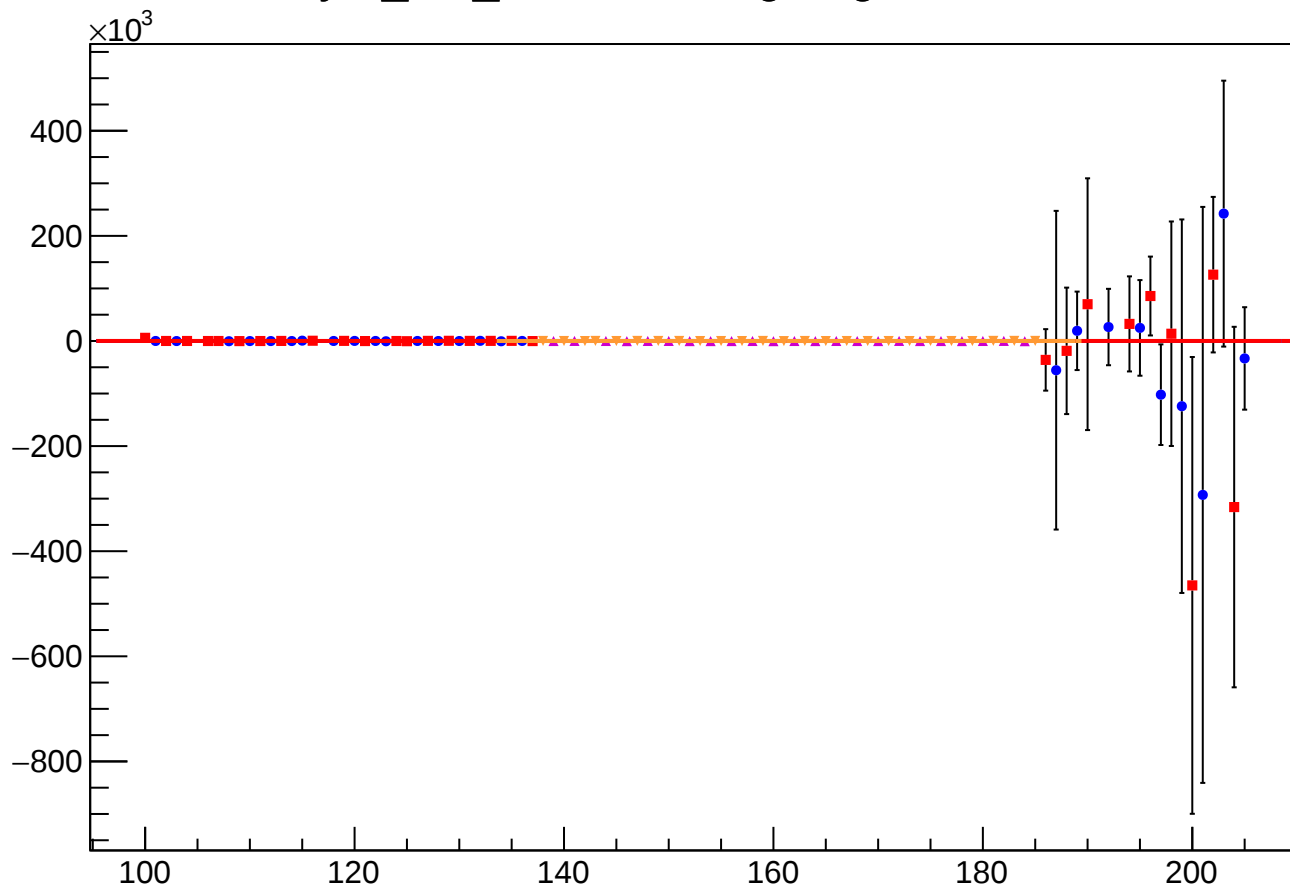
Right: 1.961+/-0.000 χ^2/NDF : 9831839.6/54

In: 2.082+/-0.000 χ^2/NDF :5355309.4/48

Out: 2.201+/-0.000 χ^2/NDF :5593928.0/53

All: 2.141+/-0.000 χ^2/NDF : 11011654.0/102

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.064 ± 46.854 $\chi^2/\text{NDF}: 17.4/25$

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

Right Out: 54.307 ± 47.789 $\chi^2/\text{NDF}: 20.7/27$

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

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

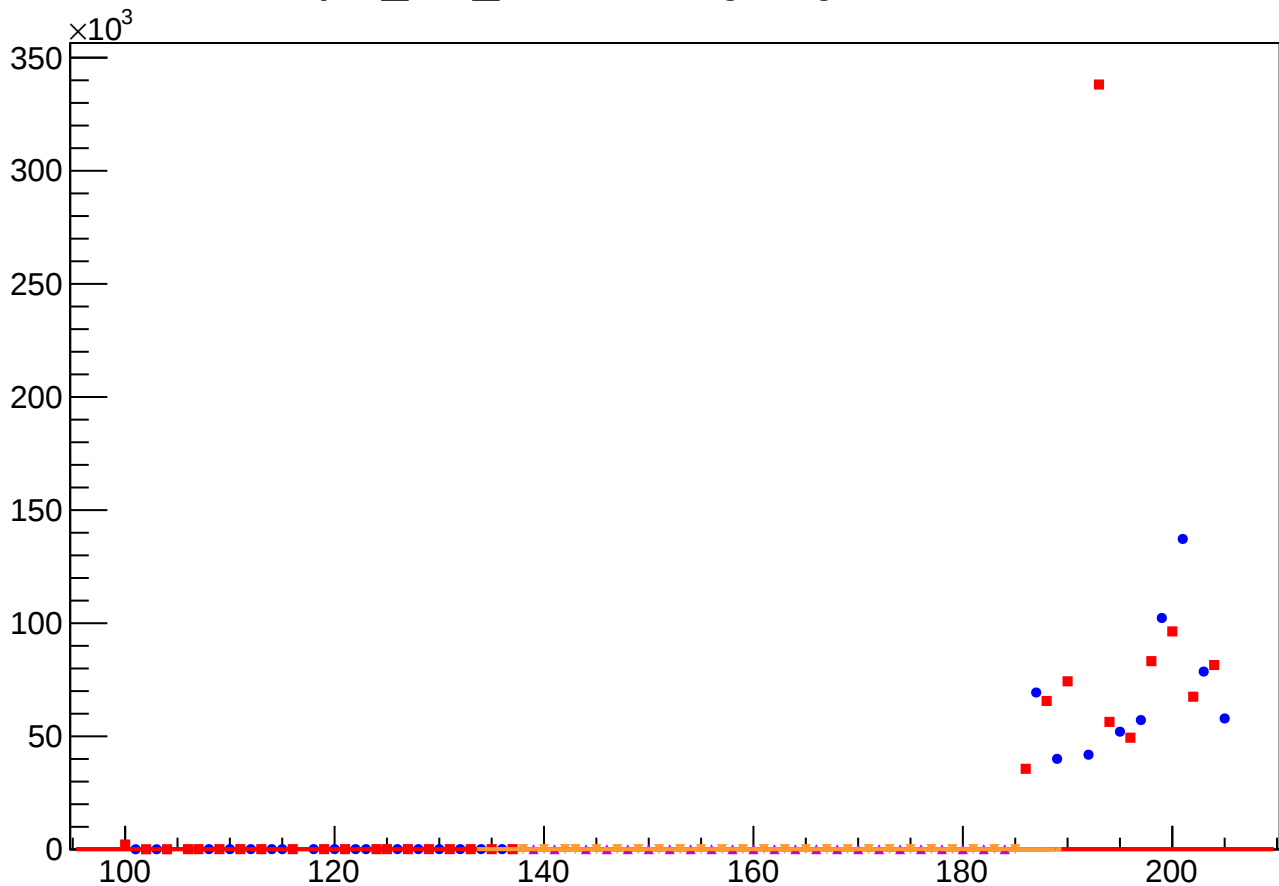
Right: 13.838 ± 33.456 $\chi^2/\text{NDF}: 39.5/53$

In: -51.938 ± 26.954 $\chi^2/\text{NDF}: 37.2/48$

Out: 7.637 ± 26.631 $\chi^2/\text{NDF}: 33.9/52$

All: -21.791 ± 18.944 $\chi^2/\text{NDF}: 73.6/101$

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.885 $\pm$ 0.033 χ^2 /NDF: 5202136.7/25

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

Right Out: 124.809 $\pm$ 0.034 χ^2 /NDF: 5278898.7/28

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

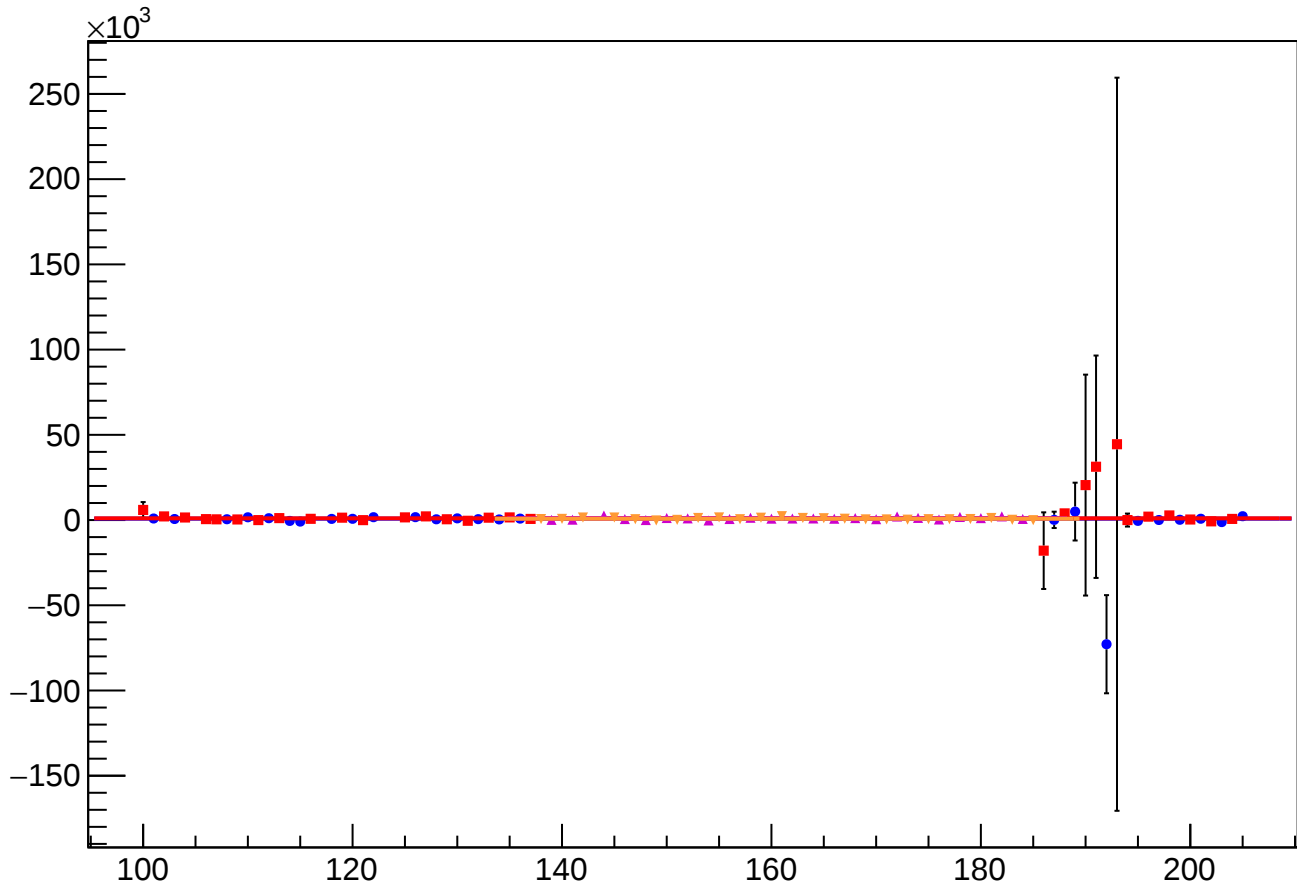
Right: 121.278 $\pm$ 0.024 χ^2 /NDF: 10502444.3/54

In: 131.238 $\pm$ 0.019 χ^2 /NDF: 5445400.0/48

Out: 133.831 $\pm$ 0.019 χ^2 /NDF: 5382738.3/53

All: 132.550 $\pm$ 0.013 χ^2 /NDF: 10837508.2/100

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 811.141 $\pm$ 210.744 χ^2 /NDF: 13.6/24

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

Right Out: 1014.627 $\pm$ 208.260 χ^2 /NDF: 17.5/28

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

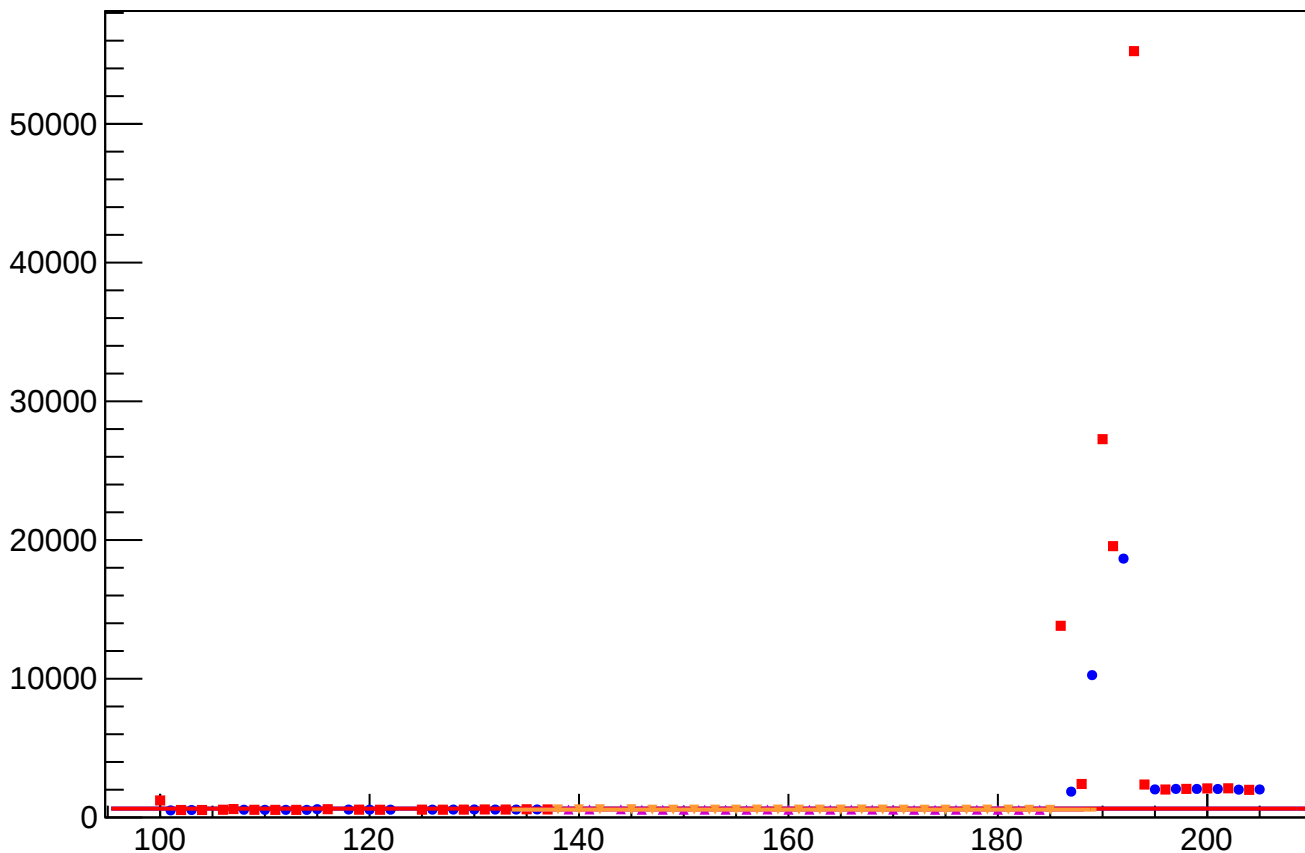
Right: 914.090 $\pm$ 148.132 χ^2 /NDF: 31.5/53

In: 926.934 $\pm$ 113.636 χ^2 /NDF:41.5/47

Out: 851.825 $\pm$ 112.721 χ^2 /NDF:37.5/52

All: 889.076 $\pm$ 80.027 χ^2 /NDF: 79.2/100

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 638.401+/-0.149 χ^2/NDF : 6410865.1/24

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

Right Out: 635.797+/-0.147 χ^2/NDF : 6315588.7/28

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

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

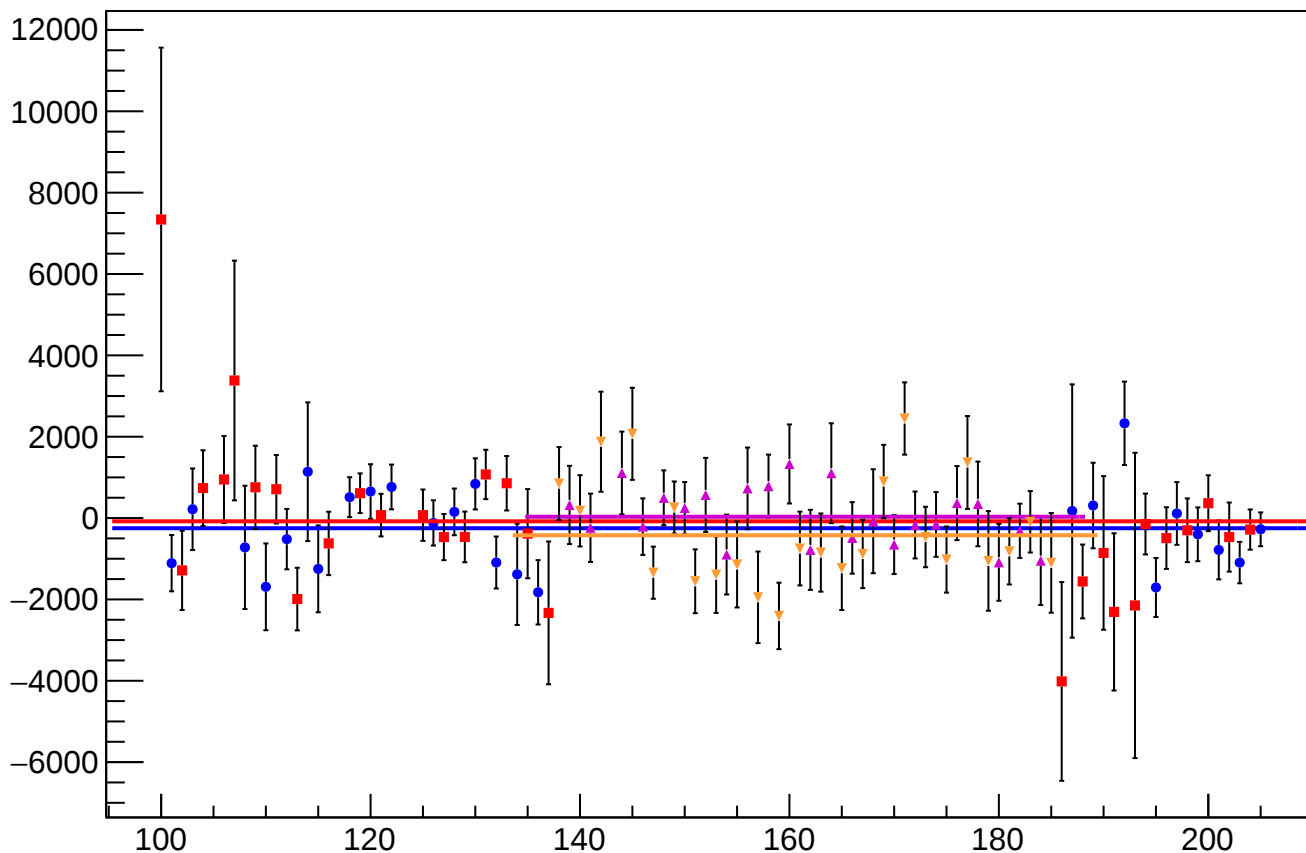
Right: 637.084+/-0.105 χ^2/NDF : 12726608.3/53

In: 585.904+/-0.080 χ^2/NDF : 6595057.4/47

Out: 585.134+/-0.080 χ^2/NDF : 6492578.3/52

All: 585.516+/-0.057 χ^2/NDF : 13087681.9/100

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -250.052+/-141.427 χ^2/NDF : 37.3/24

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

Right Out: -79.784+/-147.662 χ^2/NDF : 34.4/28

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

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

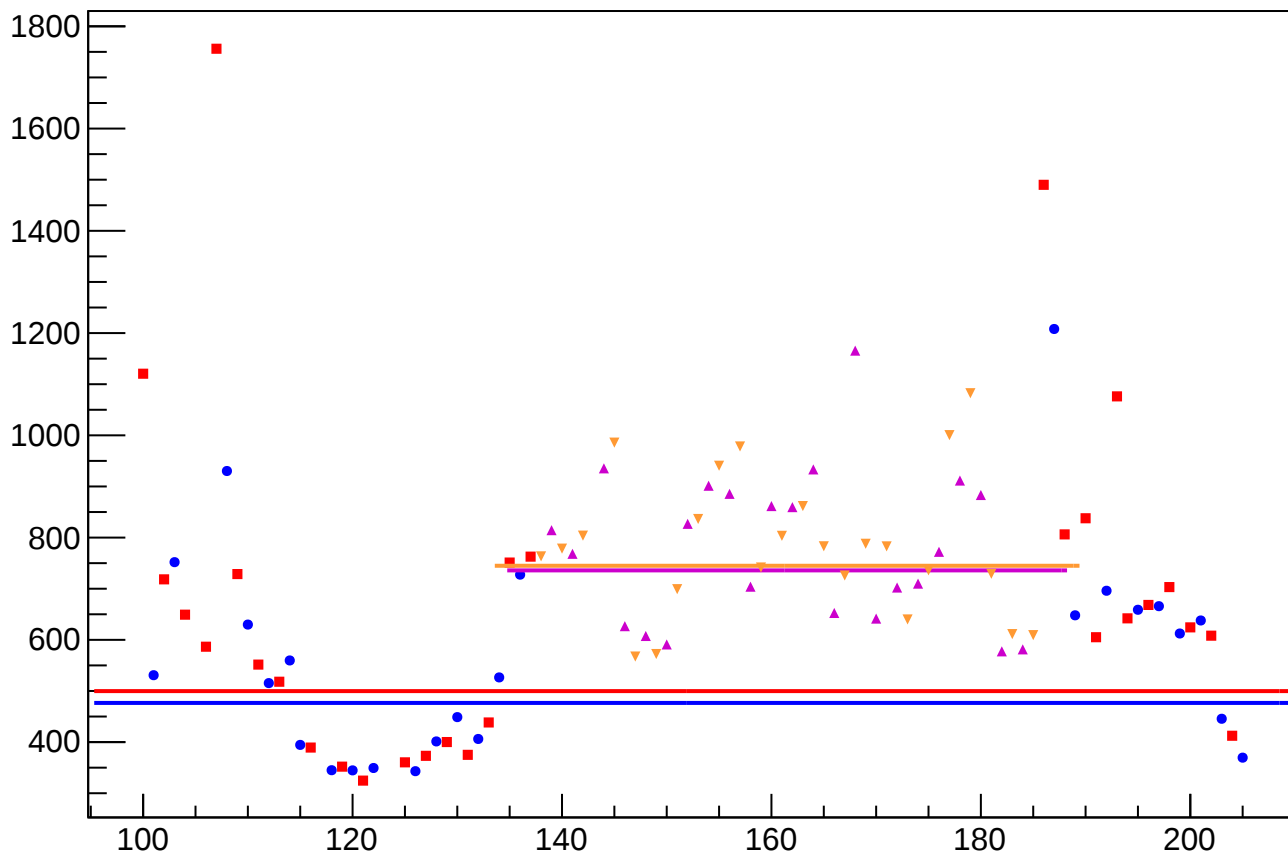
Right: -168.588+/-102.137 χ^2/NDF : 72.4/53

In: -141.813+/-111.073 χ^2/NDF : 51.0/47

Out: -217.160+/-114.318 χ^2/NDF : 79.8/52

All: -178.402+/-79.663 χ^2/NDF : 131.0/100

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 476.628 $\pm$ 0.100 χ^2 /NDF: 1941779.7/24

Left Out: 744.909 $\pm$ 0.128 χ^2 /NDF:1008847.7/23

Right Out: 499.747 $\pm$ 0.104 χ^2 /NDF: 2769208.8/28

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

Left: 740.350 $\pm$ 0.090 χ^2 /NDF: 2116785.5/46

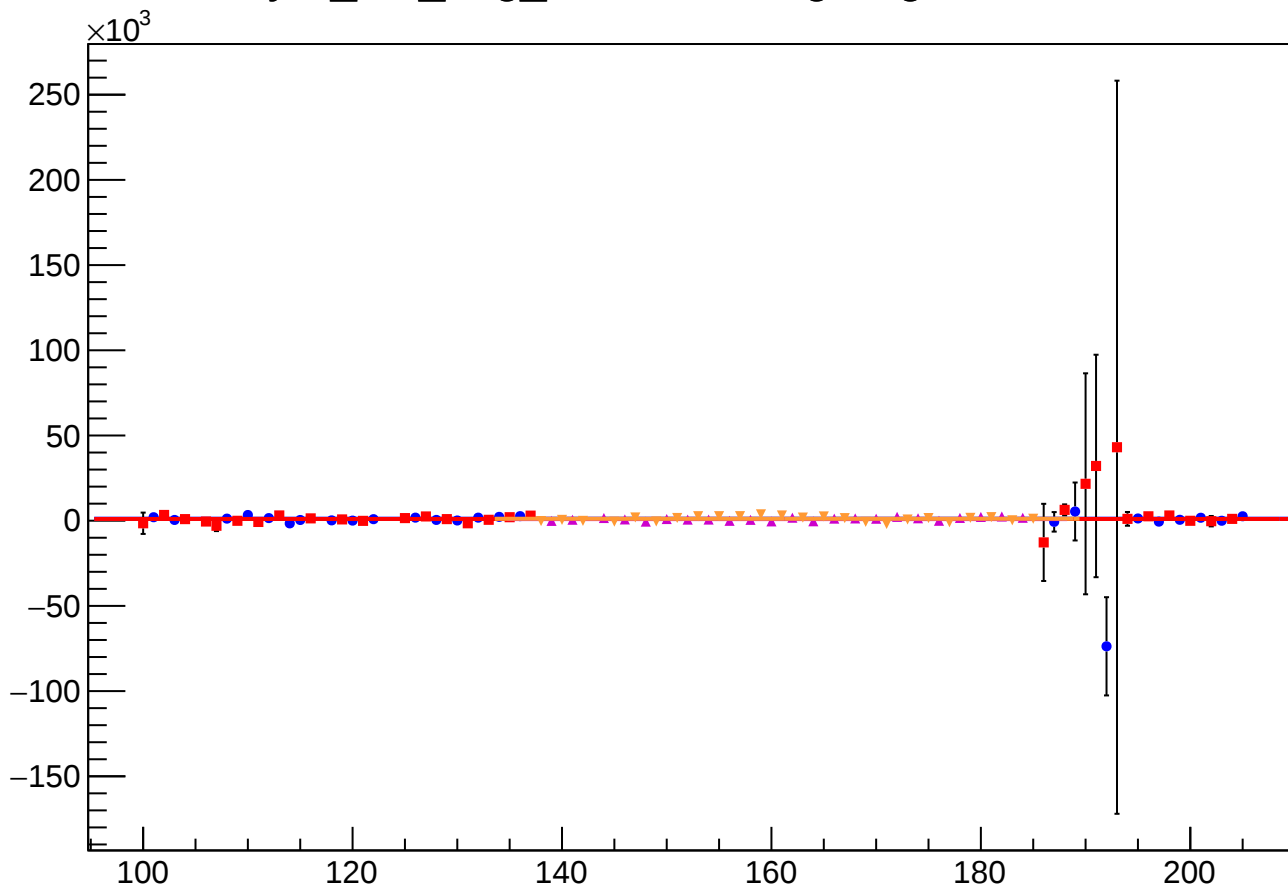
Right: 487.689 $\pm$ 0.072 χ^2 /NDF: 4736557.8/53

In: 575.961 $\pm$ 0.079 χ^2 /NDF:5621890.0/47

Out: 597.967 $\pm$ 0.081 χ^2 /NDF:5986804.6/52

All: 586.648 $\pm$ 0.056 χ^2 /NDF: 11646817.3/10

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1165.092 $\pm$ 282.675 χ^2 /NDF: 19.9/24

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

Right Out: 1013.242 $\pm$ 282.741 χ^2 /NDF: 28.2/28

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

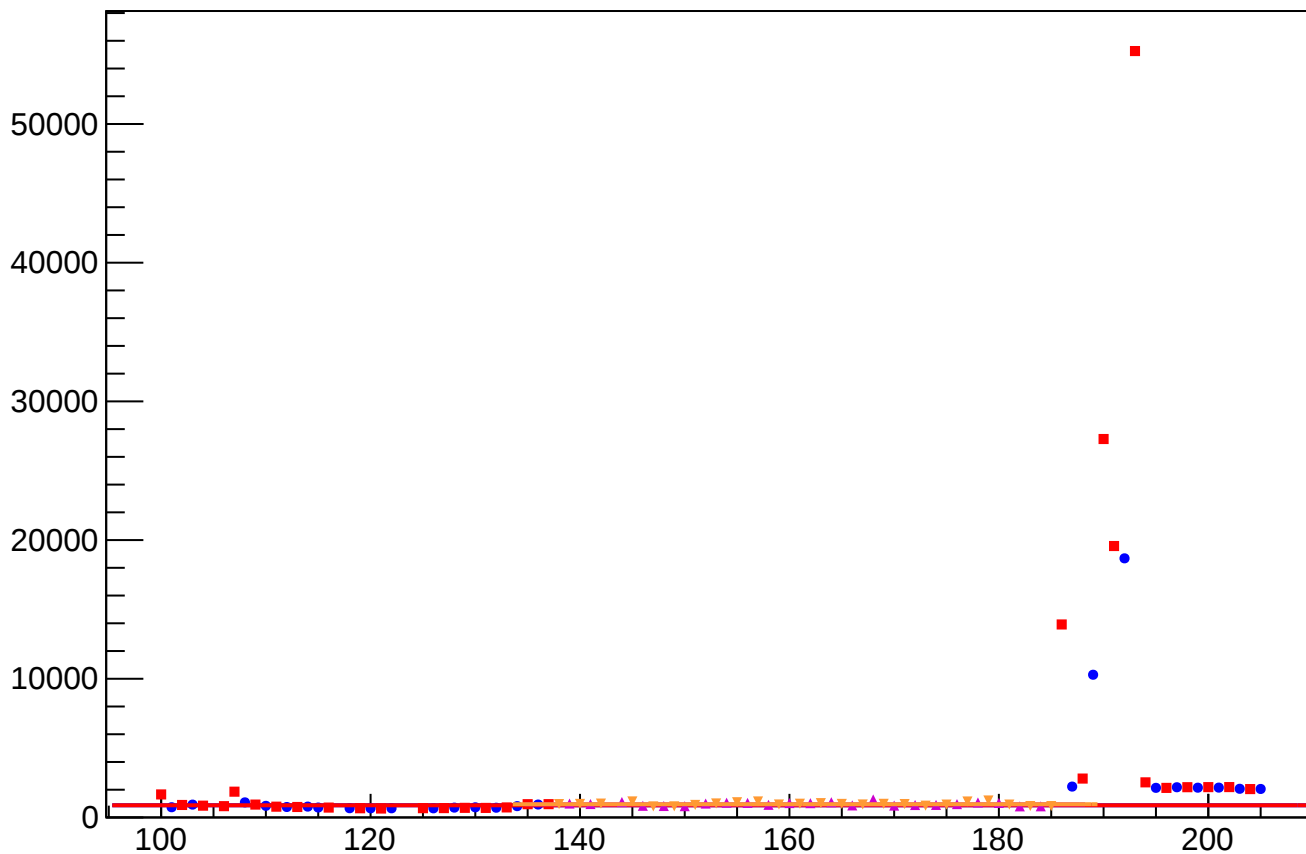
Right: 1089.185 $\pm$ 199.905 χ^2 /NDF: 48.2/53

In: 1029.903 $\pm$ 177.620 χ^2 /NDF:35.1/47

Out: 1088.584 $\pm$ 177.876 χ^2 /NDF:67.2/52

All: 1059.201 $\pm$ 125.687 χ^2 /NDF: 102.3/100

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 878.999+/-0.200 χ^2/NDF : 5409911.2/24

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

Right Out: 877.740+/-0.200 χ^2/NDF : 5730206.4/28

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

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

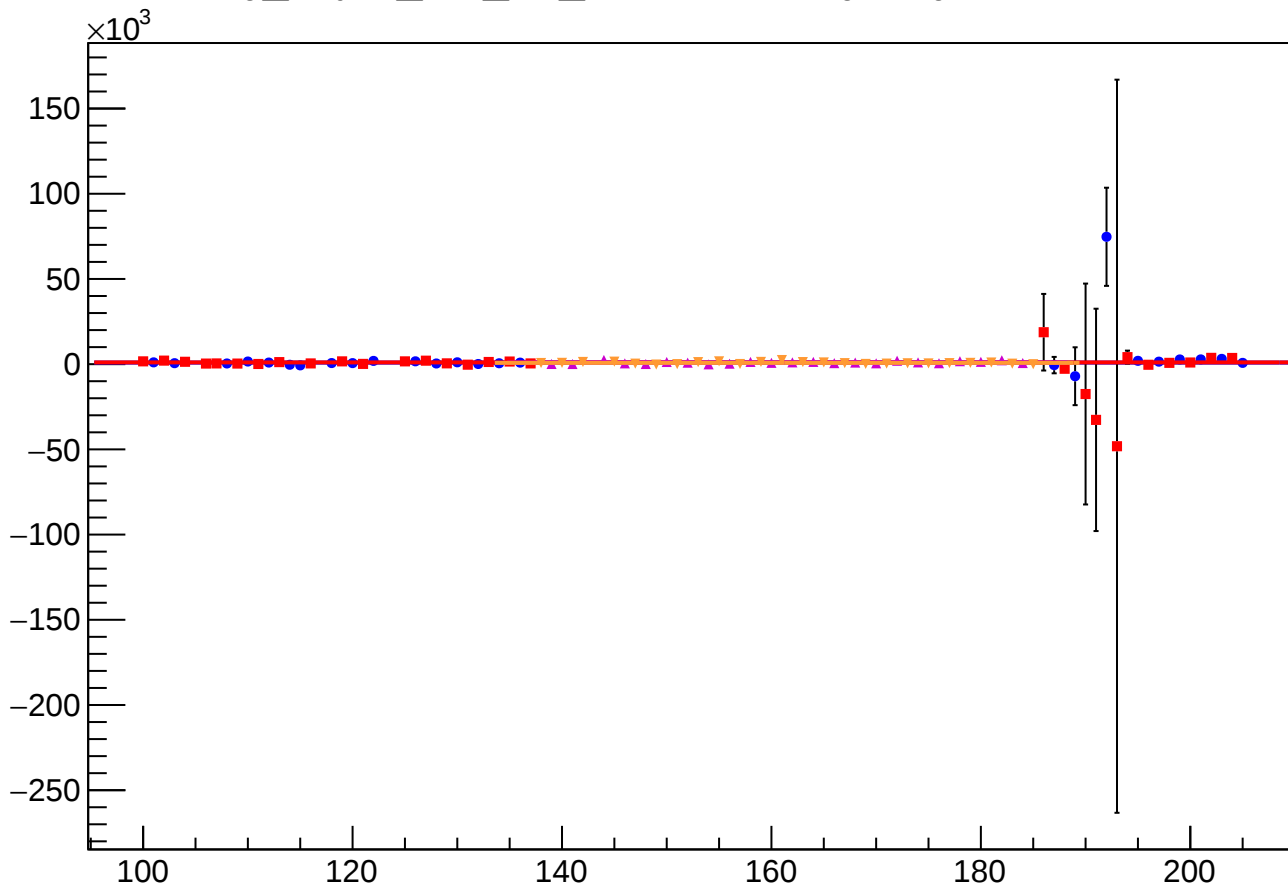
Right: 878.369+/-0.141 χ^2/NDF : 11140137.4/53

In: 919.893+/-0.126 χ^2/NDF : 5980444.7/47

Out: 924.019+/-0.126 χ^2/NDF : 6279035.0/52

All: 921.953+/-0.089 χ^2/NDF : 12260018.6/100

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 912.796 ± 210.606 χ^2/NDF : 15.7/24

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

Right Out: 1032.887 ± 203.577 χ^2/NDF : 18.2/28

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

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

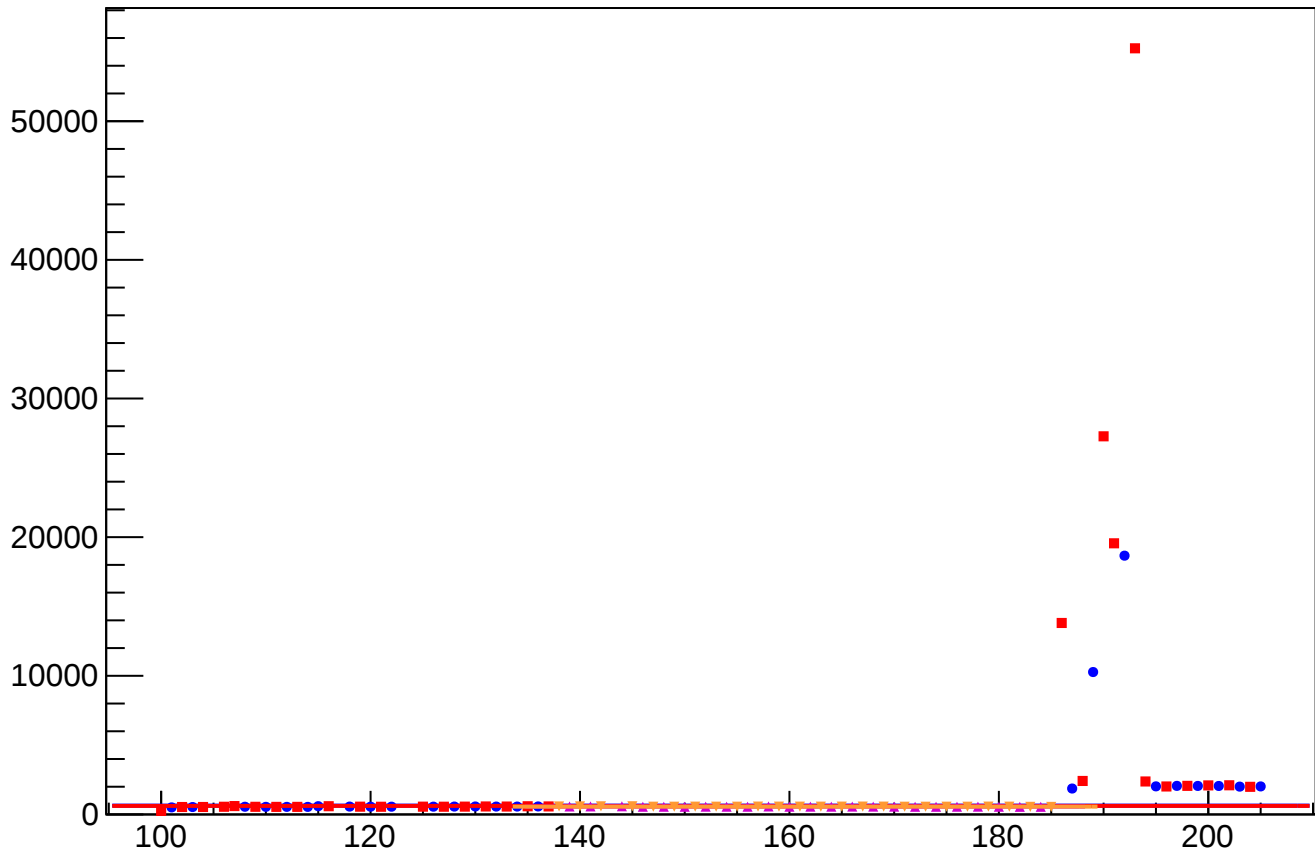
Right: 974.879 ± 146.373 χ^2/NDF : 34.0/53

In: 945.226 ± 113.550 χ^2/NDF : 42.5/47

Out: 840.796 ± 111.895 χ^2/NDF : 40.5/52

All: 892.245 ± 79.700 χ^2/NDF : 83.5/100

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 637.806+/-0.149 χ^2/NDF : 6421628.9/24

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

Right Out: 616.900+/-0.144 χ^2/NDF : 6591465.5/28

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

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

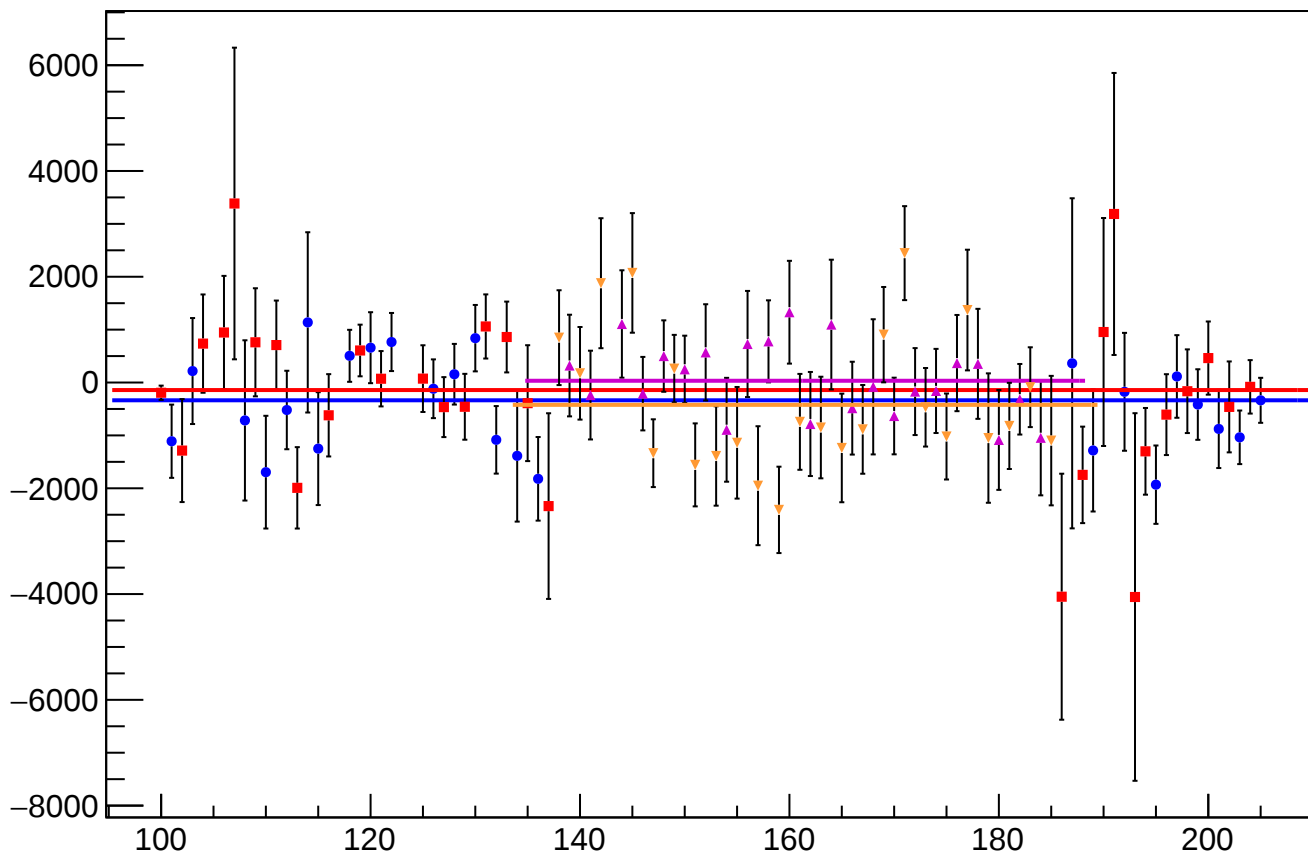
Right: 626.999+/-0.104 χ^2/NDF : 13023282.3/53

In: 585.408+/-0.080 χ^2/NDF : 6605369.5/47

Out: 579.755+/-0.079 χ^2/NDF : 6696420.3/52

All: 582.540+/-0.056 χ^2/NDF : 13304305.1/100

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -336.039 ± 142.509 $\chi^2/\text{NDF}: 32.1/24$

Left Out: -422.324 ± 180.531 $\chi^2/\text{NDF}: 43.3/23$

Right Out: -142.455 ± 100.025 $\chi^2/\text{NDF}: 36.1/28$

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

Left: -193.010 ± 127.237 $\chi^2/\text{NDF}: 58.6/46$

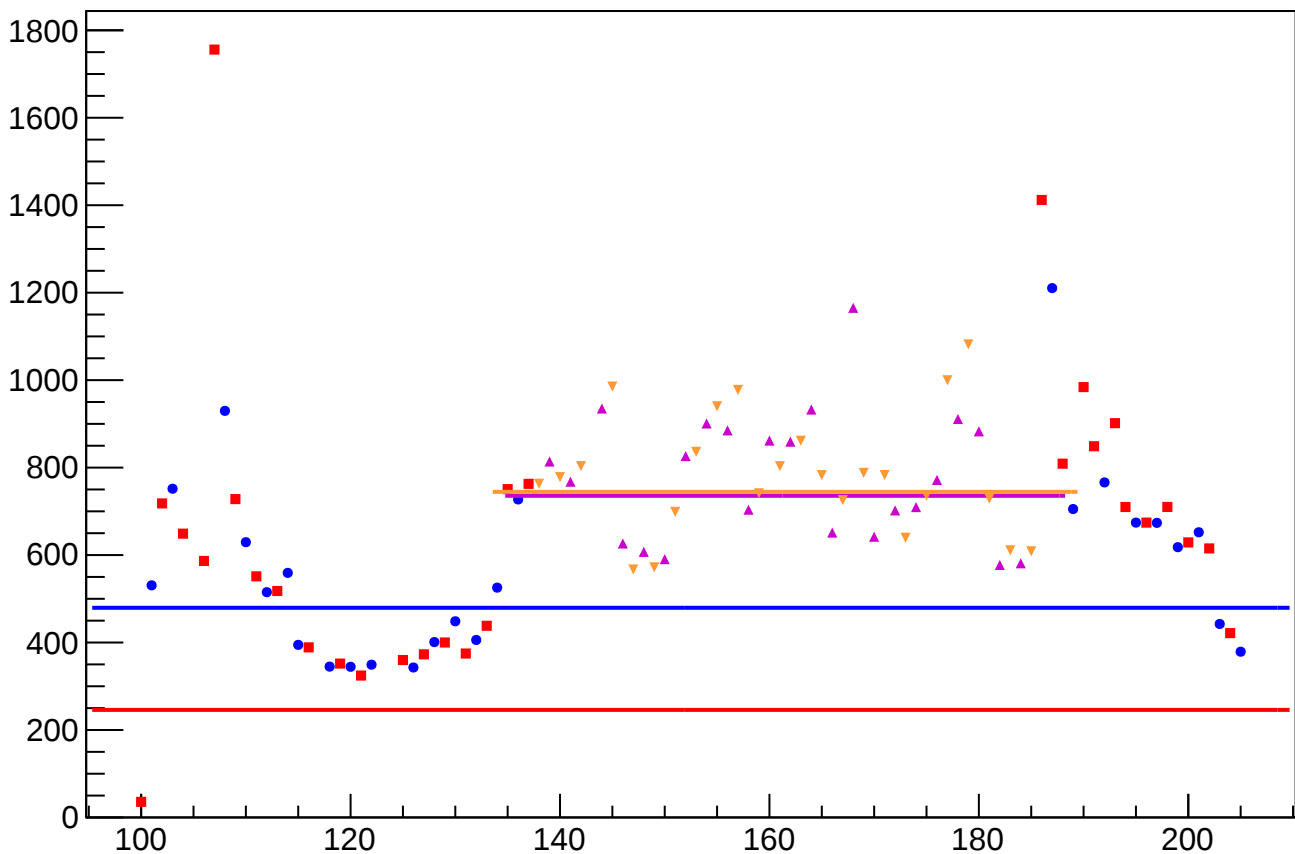
Right: -206.347 ± 81.871 $\chi^2/\text{NDF}: 69.5/53$

In: -193.094 ± 111.576 $\chi^2/\text{NDF}: 46.8/47$

Out: -208.190 ± 87.493 $\chi^2/\text{NDF}: 81.2/52$

All: -202.442 ± 68.849 $\chi^2/\text{NDF}: 128.1/100$

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 479.452+/-0.101 χ^2/NDF : 2026110.6/24

Left Out: 744.597+/-0.128 χ^2/NDF : 1009604.0/23

Right Out: 245.977+/-0.071 χ^2/NDF : 13588523.5/28

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

Left: 740.040+/-0.090 χ^2/NDF : 2117358.1/46

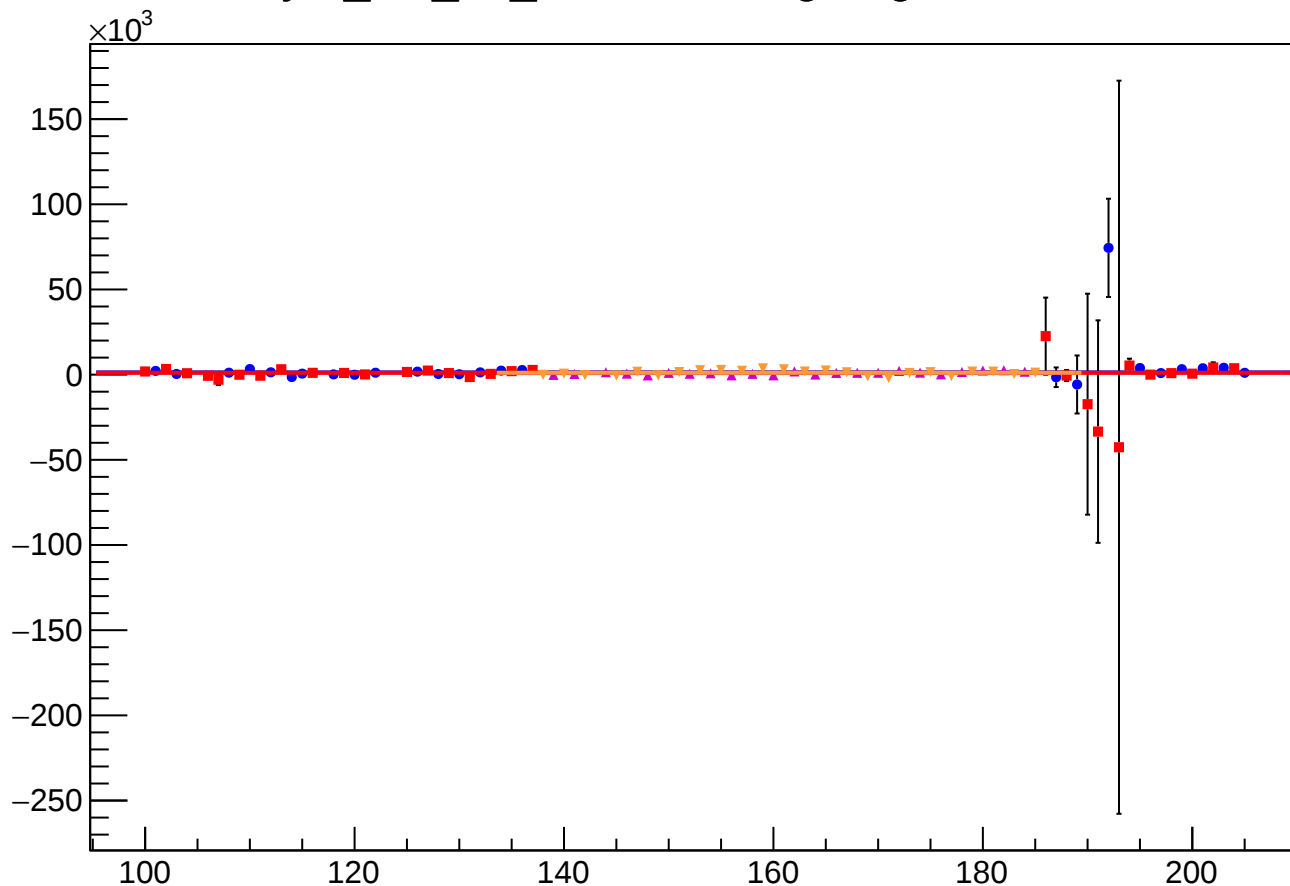
Right: 323.034+/-0.058 χ^2/NDF : 19211070.5/53

In: 578.560+/-0.079 χ^2/NDF : 5630802.4/47

Out: 363.091+/-0.062 χ^2/NDF : 26271483.5/52

All: 445.134+/-0.049 χ^2/NDF : 36520892.5/100

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1327.426+/-282.563 χ^2/NDF : 23.0/24

Left Out: 1105.144+/-228.700 χ^2/NDF : 38.3/23

Right Out: 1096.155+/-271.566 χ^2/NDF : 27.6/28

Left In: 926.281+/-228.196 χ^2/NDF : 15.1/22

Left: 1015.515+/-161.537 χ^2/NDF : 53.7/46

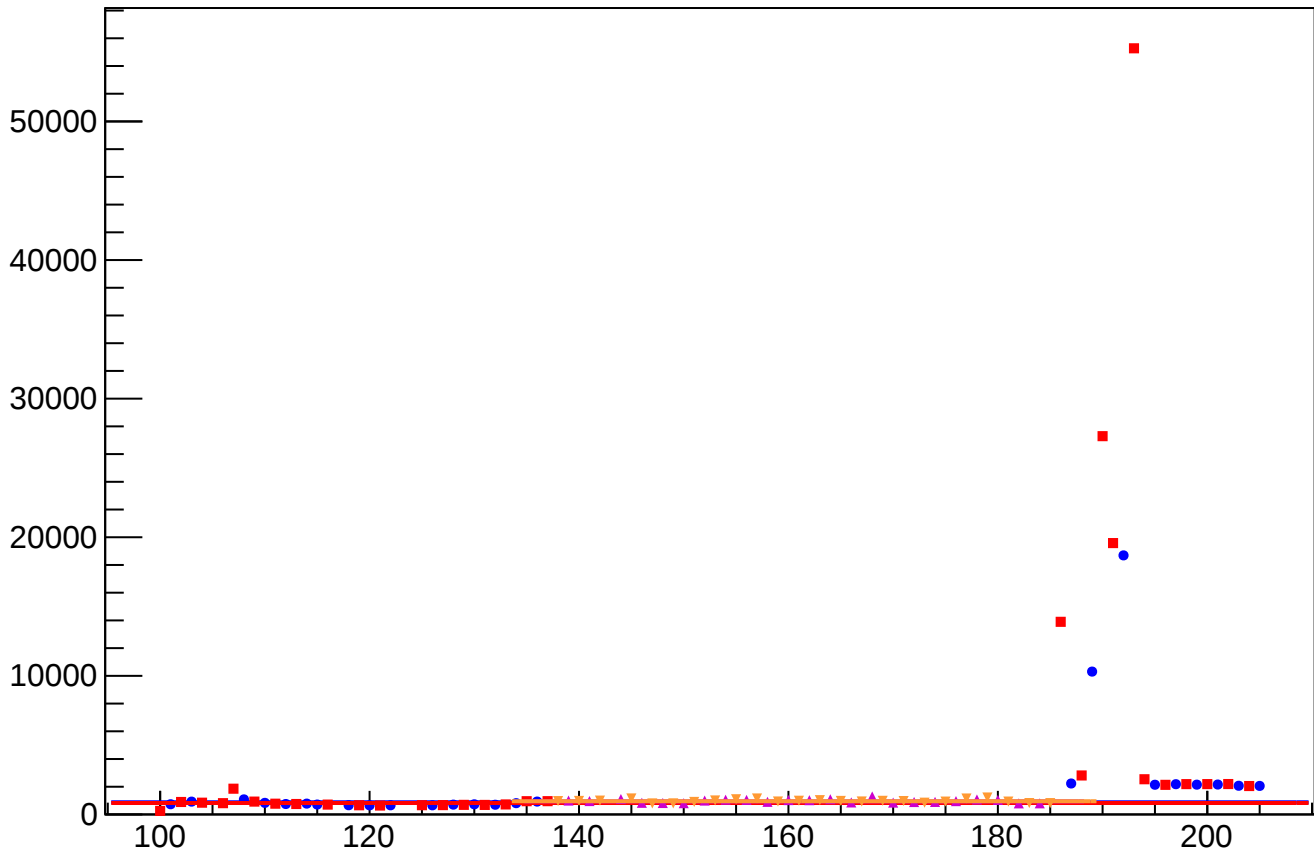
Right: 1207.203+/-195.799 χ^2/NDF : 50.9/53

In: 1084.633+/-177.532 χ^2/NDF : 39.3/47

Out: 1101.414+/-174.931 χ^2/NDF : 65.9/52

All: 1093.147+/-124.604 χ^2/NDF : 105.2/100

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 878.284+/-0.200 χ^2/NDF : 5426386.8/24

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

Right Out: 826.853+/-0.192 χ^2/NDF : 6465180.2/28

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

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

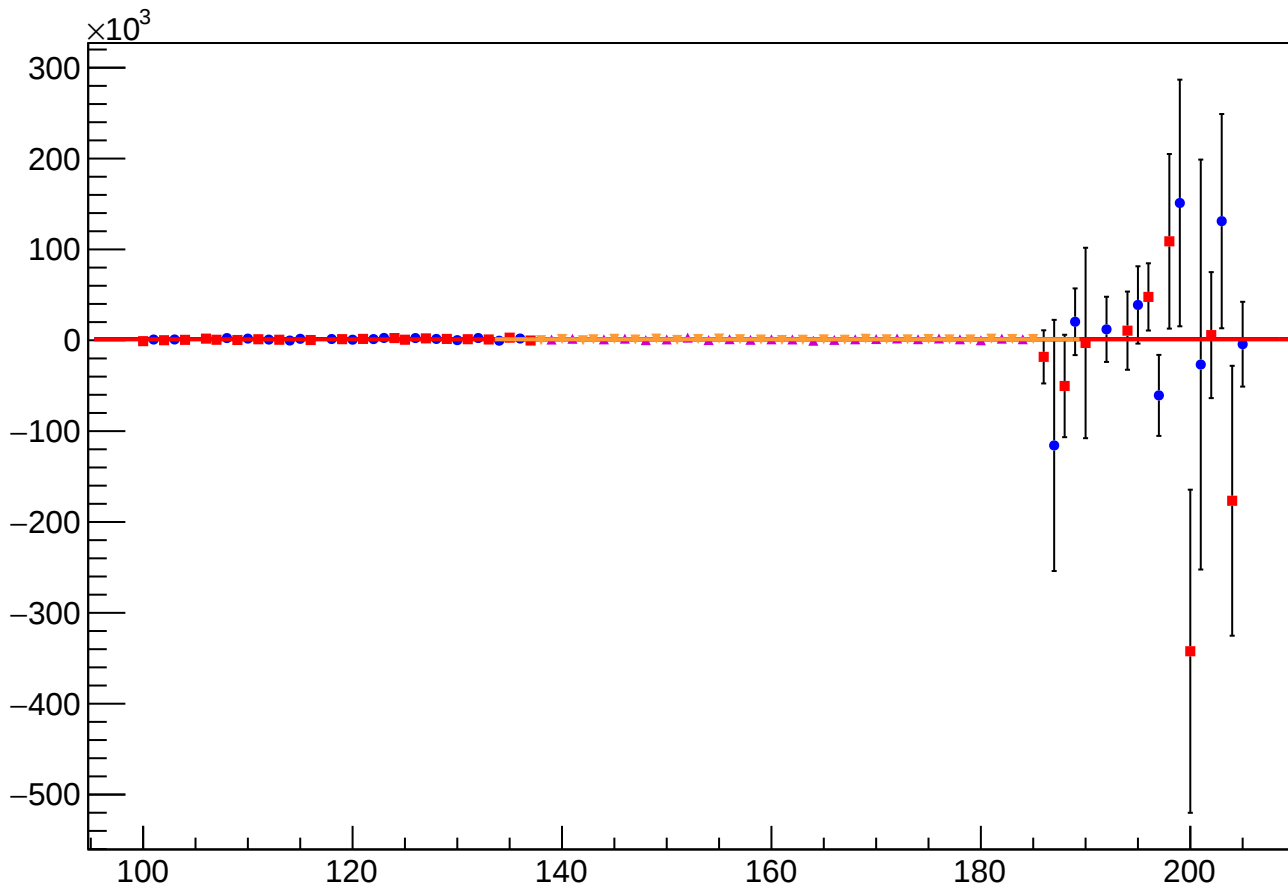
Right: 851.548+/-0.138 χ^2/NDF : 11926011.1/53

In: 919.294+/-0.126 χ^2/NDF : 5997434.9/47

Out: 901.114+/-0.124 χ^2/NDF : 7181012.9/52

All: 910.070+/-0.088 χ^2/NDF : 13189089.4/100

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.018 $\pm$ 218.583 χ^2 /NDF: 19.0/25

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

Right Out: 1040.229 $\pm$ 212.064 χ^2 /NDF: 22.8/27

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

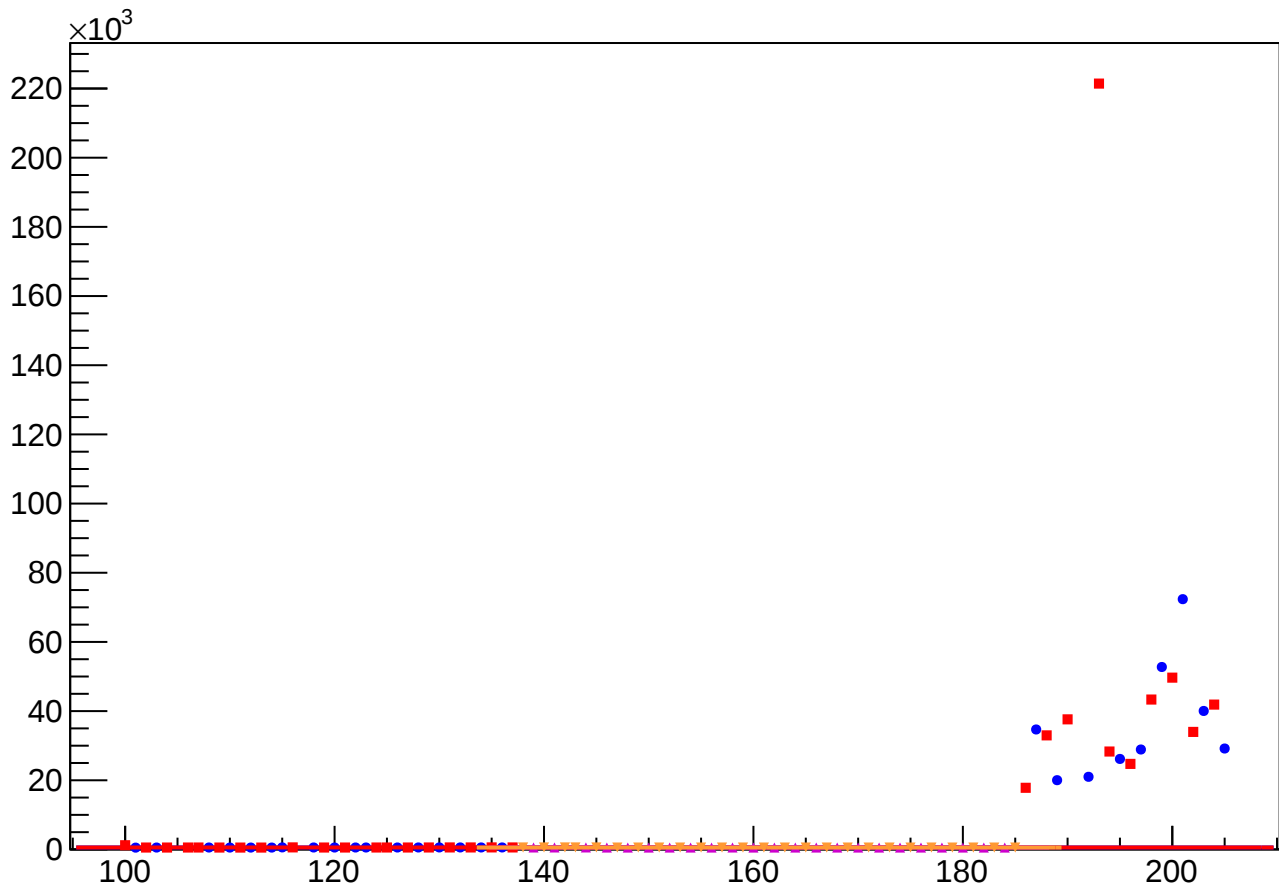
Right: 1178.314 $\pm$ 152.204 χ^2 /NDF: 42.7/53

In: 1178.307 $\pm$ 113.722 χ^2 /NDF:49.7/48

Out: 1064.535 $\pm$ 110.640 χ^2 /NDF:38.0/52

All: 1119.858 $\pm$ 79.301 χ^2 /NDF: 88.2/101

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 567.451+/-0.155 χ^2/NDF : 4482062.1/25

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

Right Out: 569.060+/-0.150 χ^2/NDF : 4720052.6/28

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

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

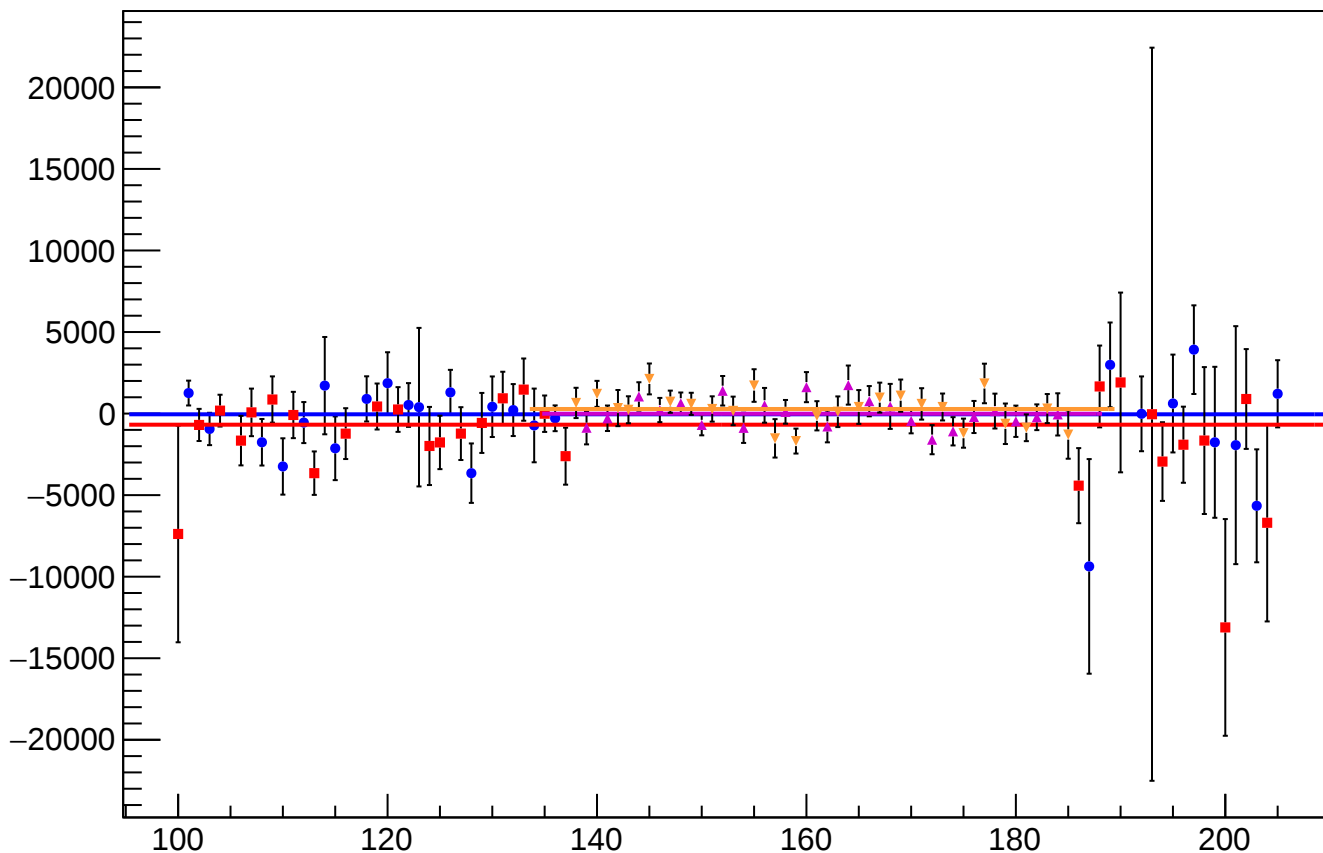
Right: 568.280+/-0.108 χ^2/NDF : 9202170.5/54

In: 559.806+/-0.080 χ^2/NDF : 4496626.2/48

Out: 560.671+/-0.078 χ^2/NDF : 4739105.2/53

All: 560.251+/-0.056 χ^2/NDF : 9235790.9/102

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -44.203 ± 312.002 χ^2/NDF : 25.8/25

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

Right Out: -681.154 ± 316.805 χ^2/NDF : 24.4/28

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

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

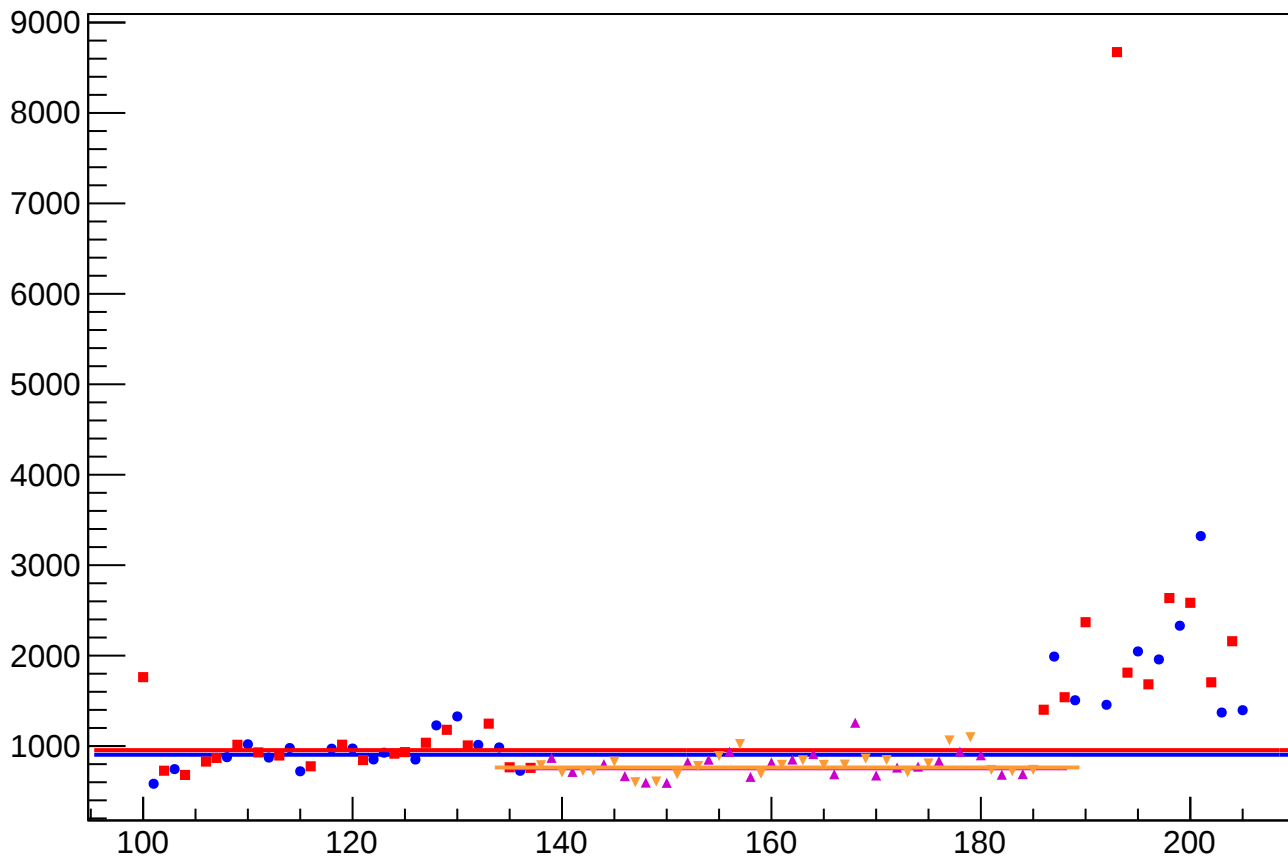
Right: -357.813 ± 222.297 χ^2/NDF : 52.3/54

In: -17.452 ± 158.096 χ^2/NDF : 46.0/48

Out: 46.022 ± 156.781 χ^2/NDF : 58.1/53

All: 14.550 ± 111.323 χ^2/NDF : 104.2/102

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 904.146+/-0.221 χ^2/NDF : 2159160.4/25

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

Right Out: 955.129+/-0.224 χ^2/NDF : 2133382.5/28

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

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

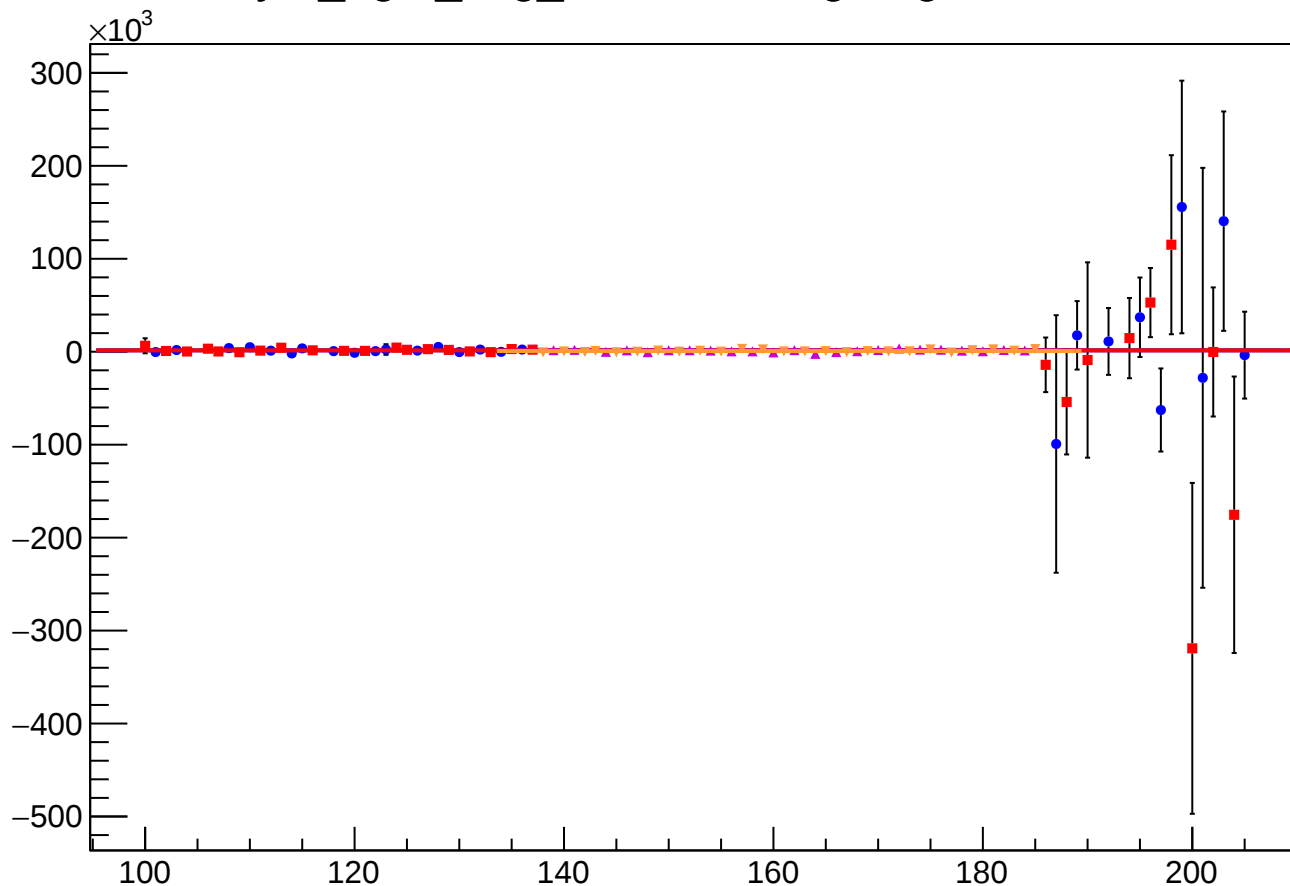
Right: 929.248+/-0.157 χ^2/NDF : 4318836.4/54

In: 792.625+/-0.112 χ^2/NDF : 3434786.1/48

Out: 810.118+/-0.111 χ^2/NDF : 3442026.1/53

All: 801.444+/-0.079 χ^2/NDF : 6889157.4/102

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1500.685 $\pm$ 402.562 χ^2 /NDF: 23.4/25

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

Right Out: 1487.999 $\pm$ 400.615 χ^2 /NDF: 21.3/27

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

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

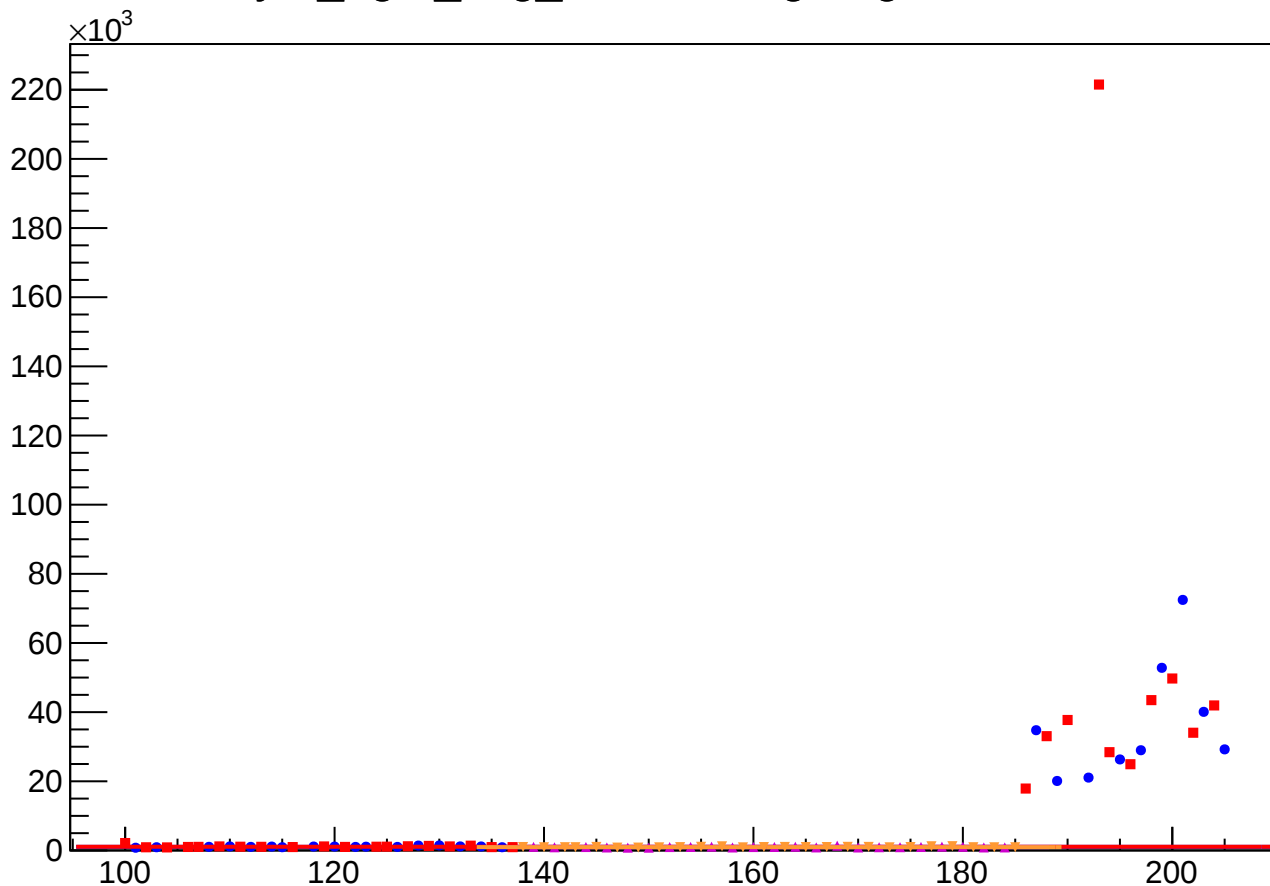
Right: 1494.311 $\pm$ 283.963 χ^2 /NDF: 44.7/53

In: 1217.183 $\pm$ 199.746 χ^2 /NDF:49.4/48

Out: 919.743 $\pm$ 196.531 χ^2 /NDF:45.5/52

All: 1066.050 $\pm$ 140.091 χ^2 /NDF: 96.0/101

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1035.064 $\pm$ 0.285 χ^2 /NDF: 4658930.6/25

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

Right Out: 1070.926 $\pm$ 0.283 χ^2 /NDF: 4746545.7/28

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

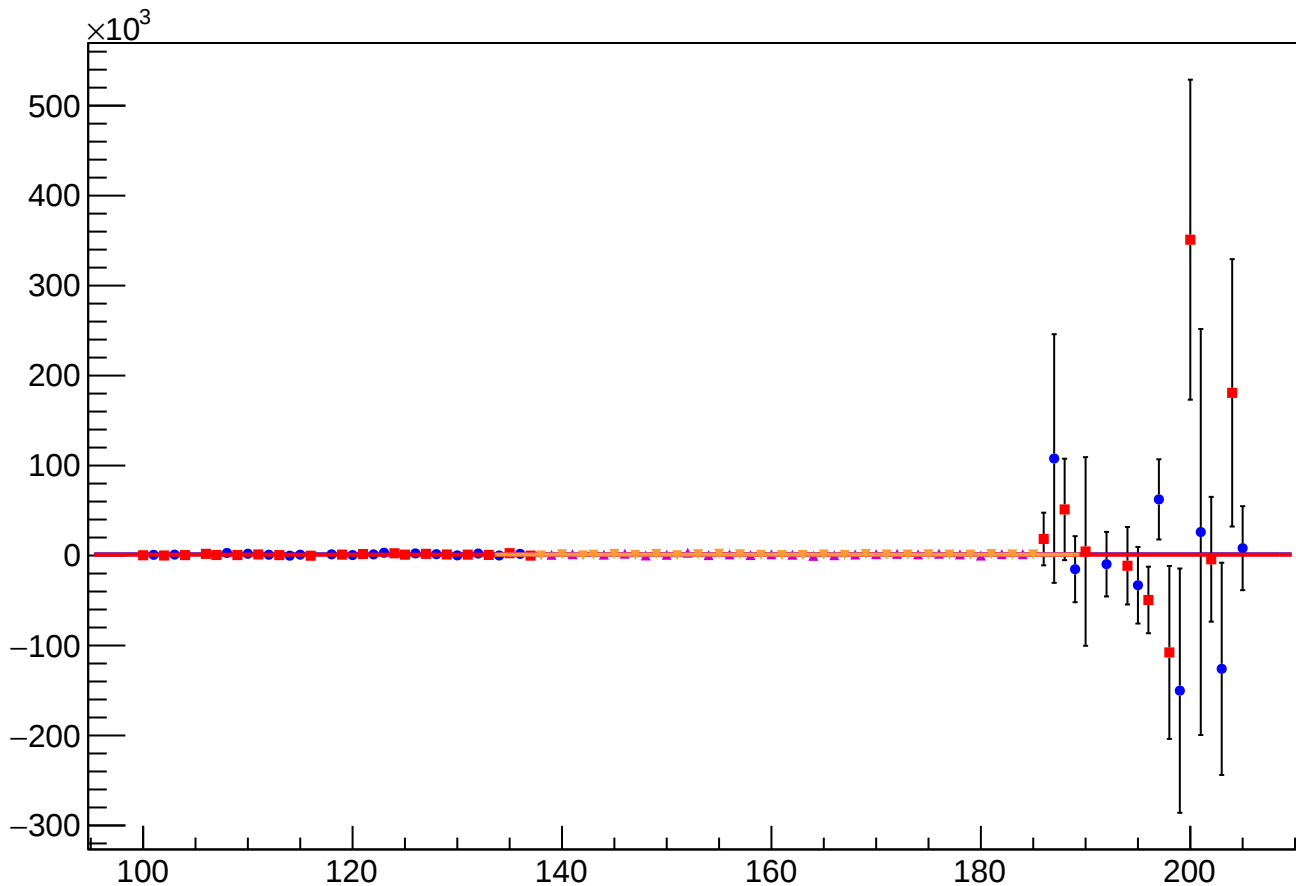
Right: 1053.082 $\pm$ 0.201 χ^2 /NDF: 9413450.7/54

In: 974.443 $\pm$ 0.141 χ^2 /NDF: 5162493.0/48

Out: 988.409 $\pm$ 0.139 χ^2 /NDF: 5221230.8/53

All: 981.539 $\pm$ 0.099 χ^2 /NDF: 10388691.3/100

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.578 $\pm$ 218.838 χ^2 /NDF: 17.9/25

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

Right Out: 965.412 $\pm$ 208.599 χ^2 /NDF: 21.9/27

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

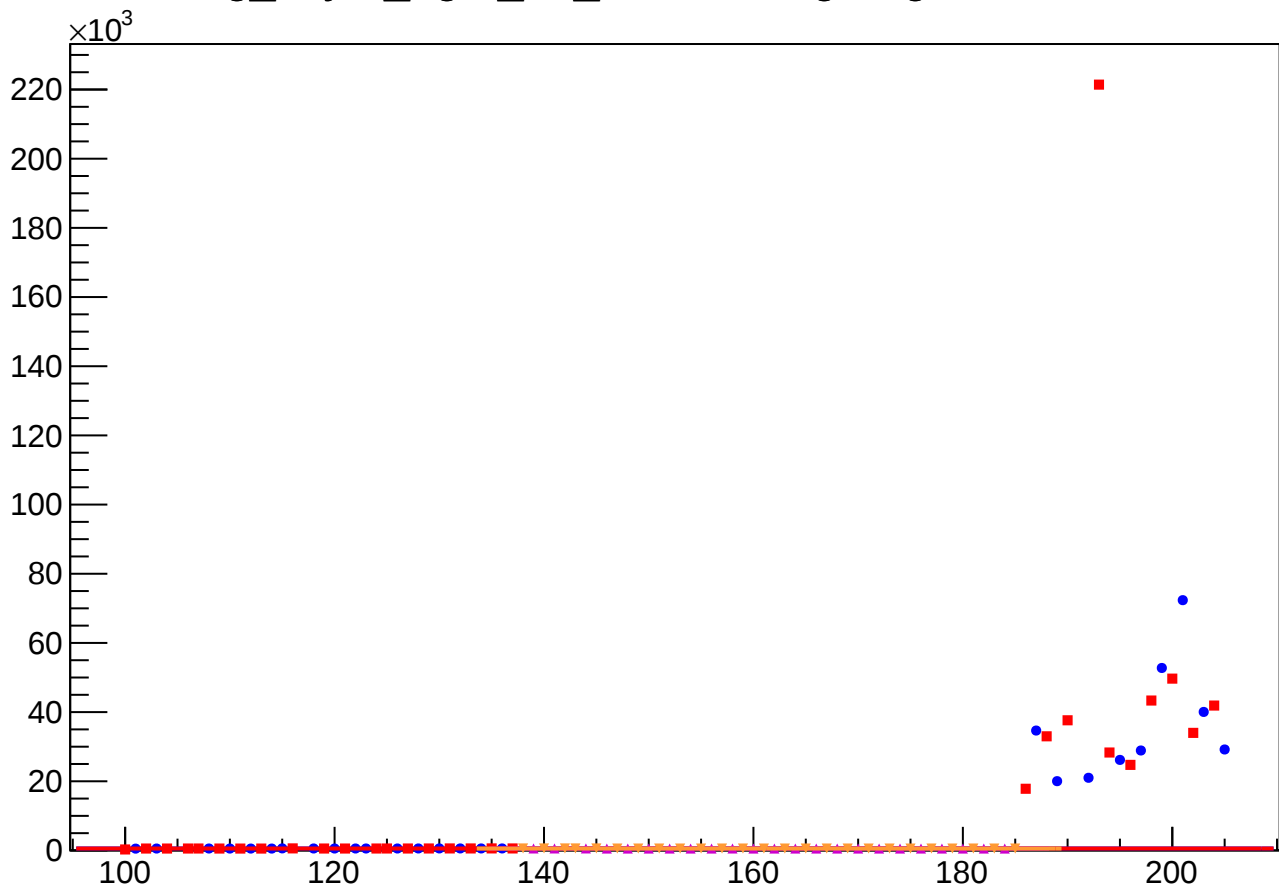
Right: 1145.918 $\pm$ 150.992 χ^2 /NDF: 41.4/53

In: 1231.460 $\pm$ 113.851 χ^2 /NDF:50.4/48

Out: 1053.506 $\pm$ 110.219 χ^2 /NDF:37.1/52

All: 1139.600 $\pm$ 79.190 χ^2 /NDF: 88.8/101

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 568.112 $\pm$ 0.155 χ^2 /NDF: 4482262.4/25

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

Right Out: 558.075 $\pm$ 0.148 χ^2 /NDF: 4807051.5/28

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

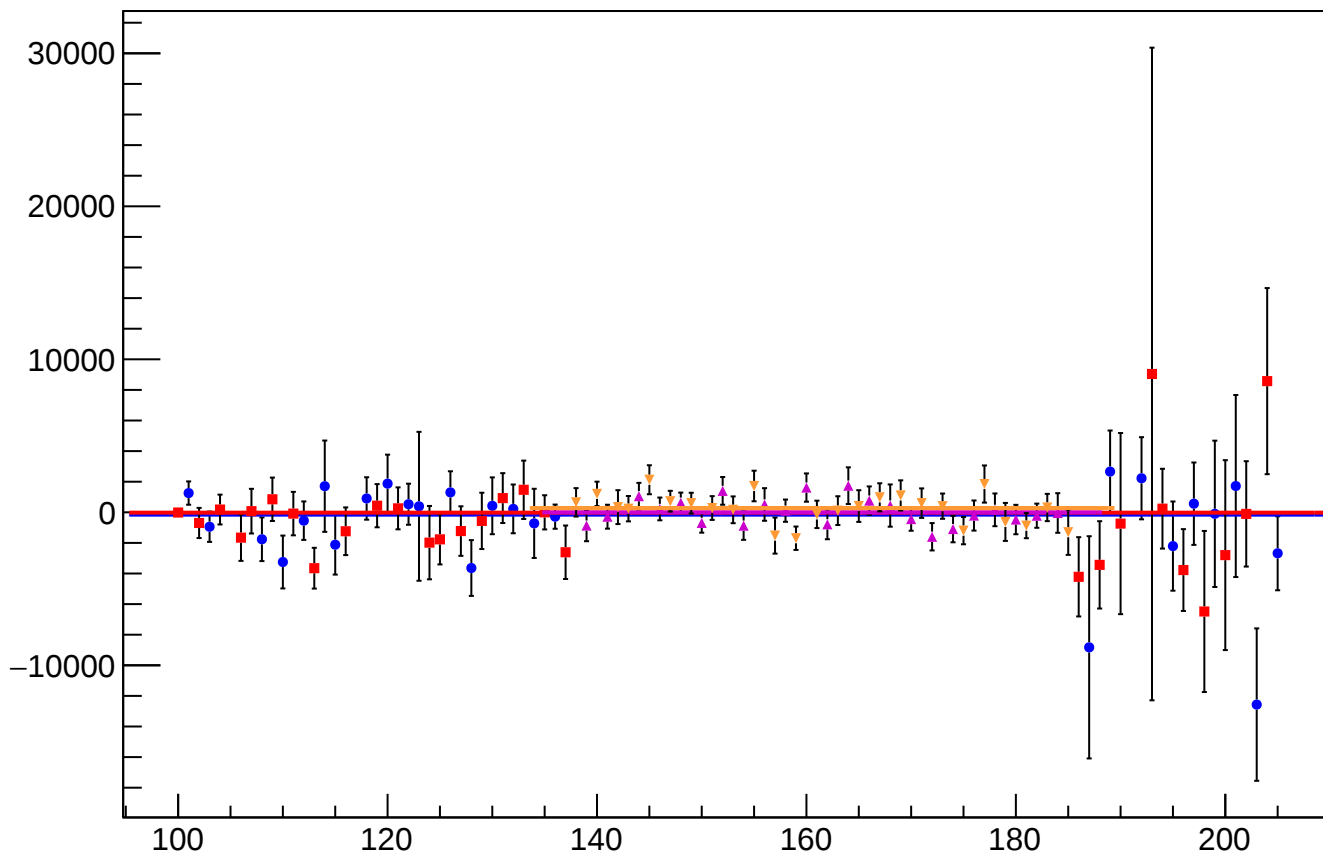
Right: 562.853 $\pm$ 0.107 χ^2 /NDF: 9291518.3/54

In: 560.443 $\pm$ 0.081 χ^2 /NDF:4496907.3/48

Out: 558.092 $\pm$ 0.078 χ^2 /NDF:4821836.7/53

All: 559.229 $\pm$ 0.056 χ^2 /NDF: 9319184.0/102

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -152.665+/-314.507 χ^2/NDF : 28.3/25

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

Right Out: -22.523+/-38.933 χ^2/NDF : 25.8/28

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

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

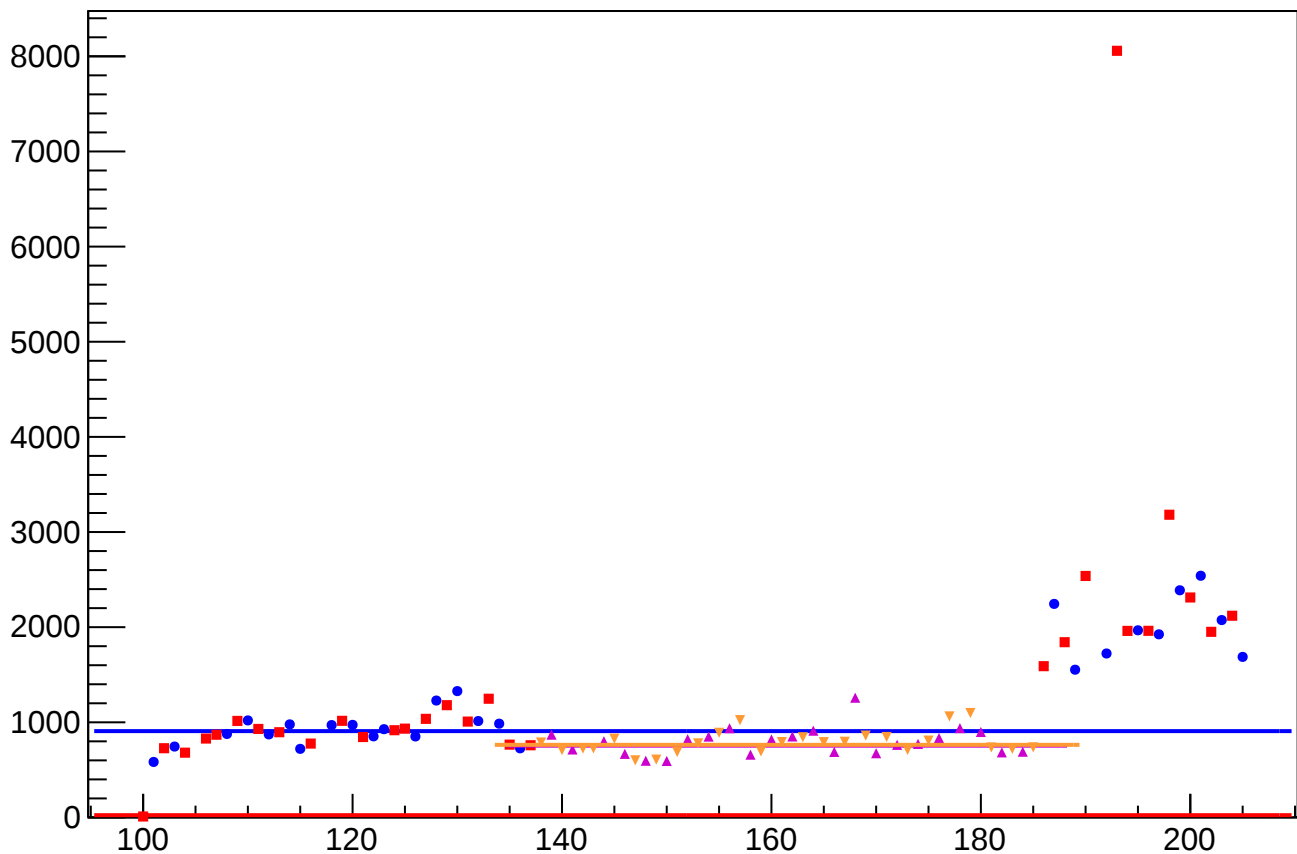
Right: -24.487+/-38.638 χ^2/NDF : 54.3/54

In: -44.214+/-158.478 χ^2/NDF : 48.6/48

Out: -9.009+/-38.057 χ^2/NDF : 55.3/53

All: -10.929+/-37.005 χ^2/NDF : 104.0/102

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 907.506+/-0.222 χ^2/NDF : 2317730.1/25

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

Right Out: 24.039+/-0.028 χ^2/NDF : 19683170.7/28

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

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

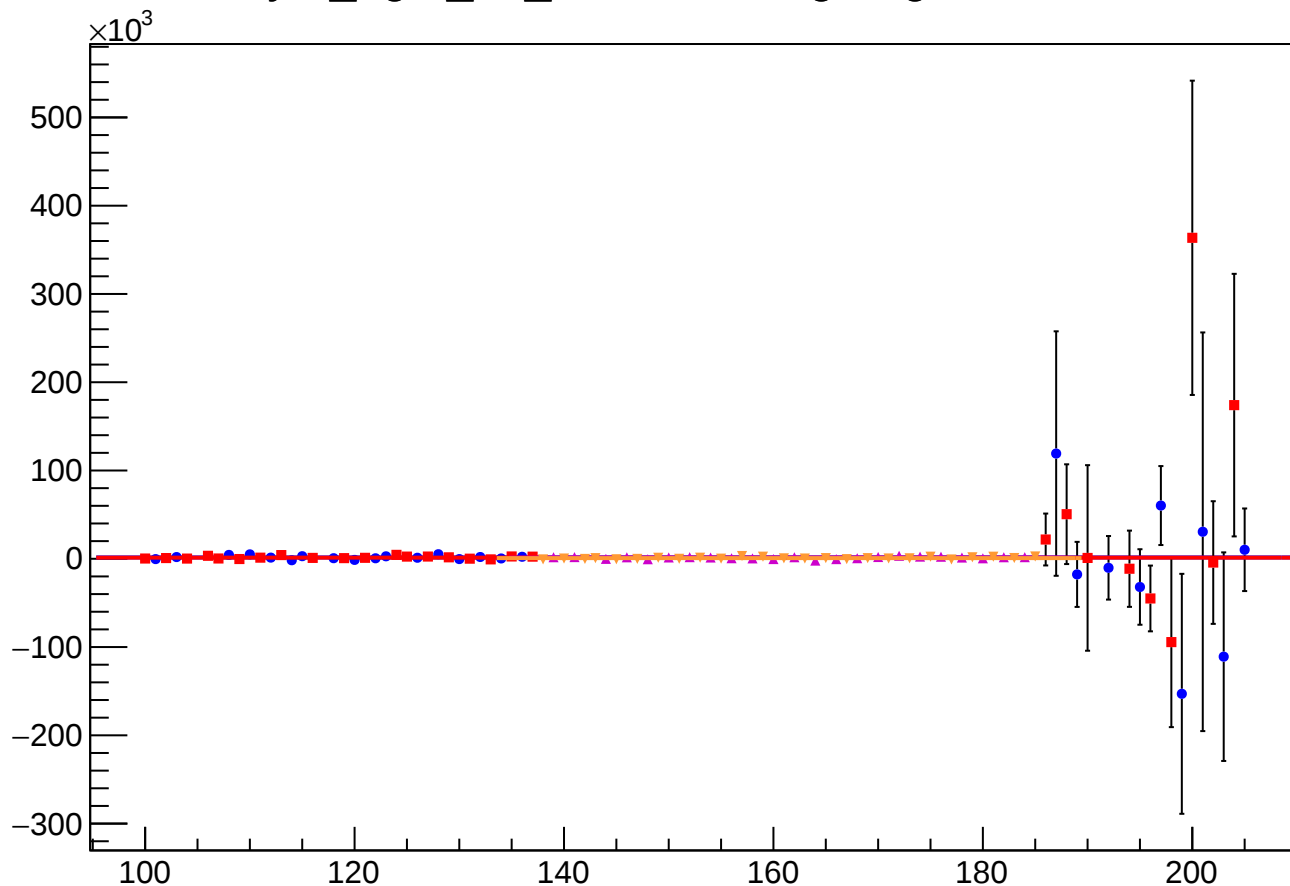
Right: 37.373+/-0.027 χ^2/NDF : 37544401.5/54

In: 793.337+/-0.112 χ^2/NDF : 3602513.2/48

Out: 56.911+/-0.027 χ^2/NDF : 52501878.8/53

All: 97.064+/-0.026 χ^2/NDF : 96936566.5/102

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1516.587 $\pm$ 402.785 χ^2 /NDF: 23.5/25

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

Right Out: 1288.513 $\pm$ 376.593 χ^2 /NDF: 21.7/27

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

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

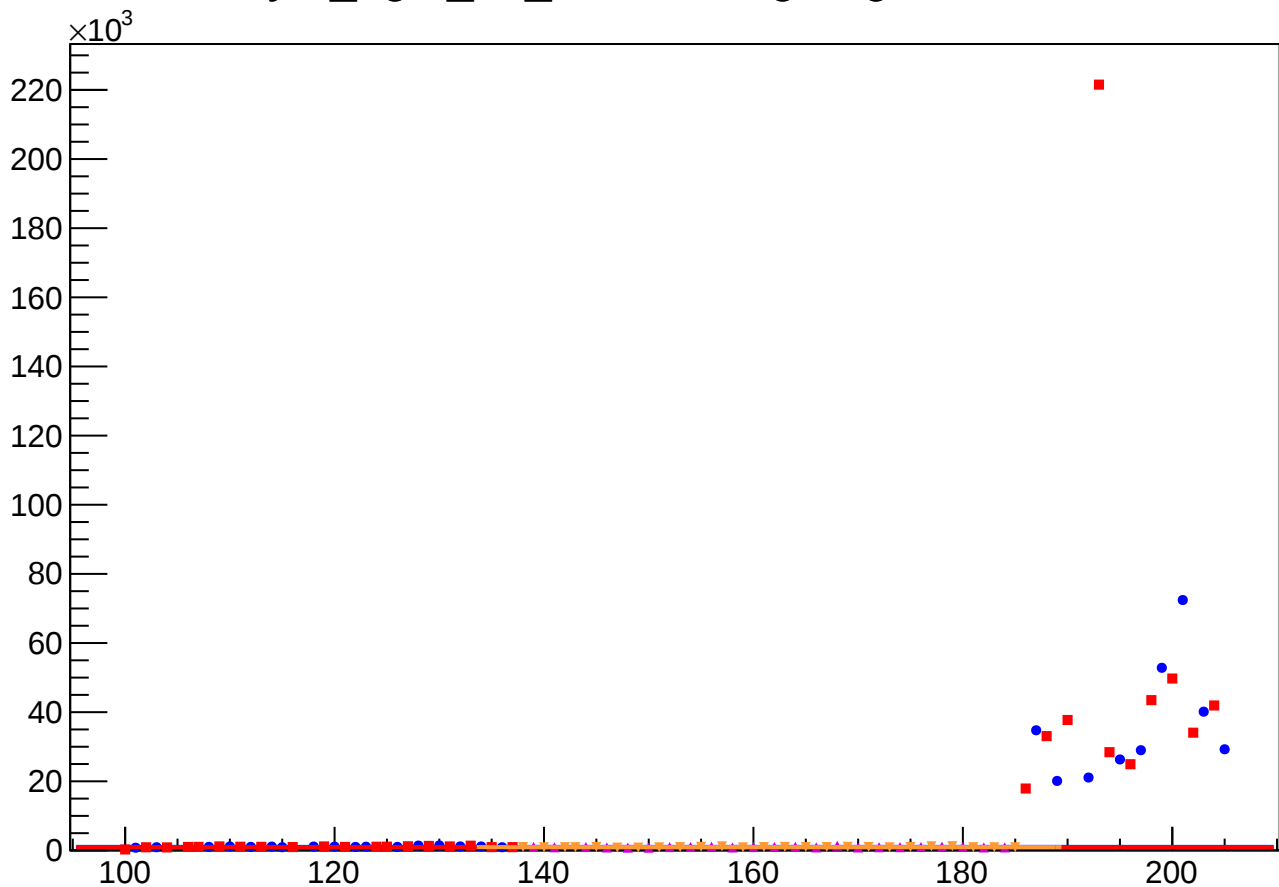
Right: 1394.894 $\pm$ 275.085 χ^2 /NDF: 45.4/53

In: 1260.090 $\pm$ 199.880 χ^2 /NDF:48.3/48

Out: 886.991 $\pm$ 193.568 χ^2 /NDF:43.5/52

All: 1067.556 $\pm$ 139.051 χ^2 /NDF: 93.6/101

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1035.644+/-0.285 χ^2/NDF : 4659516.1/25

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

Right Out: 975.697+/-0.266 χ^2/NDF : 5613462.6/28

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

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

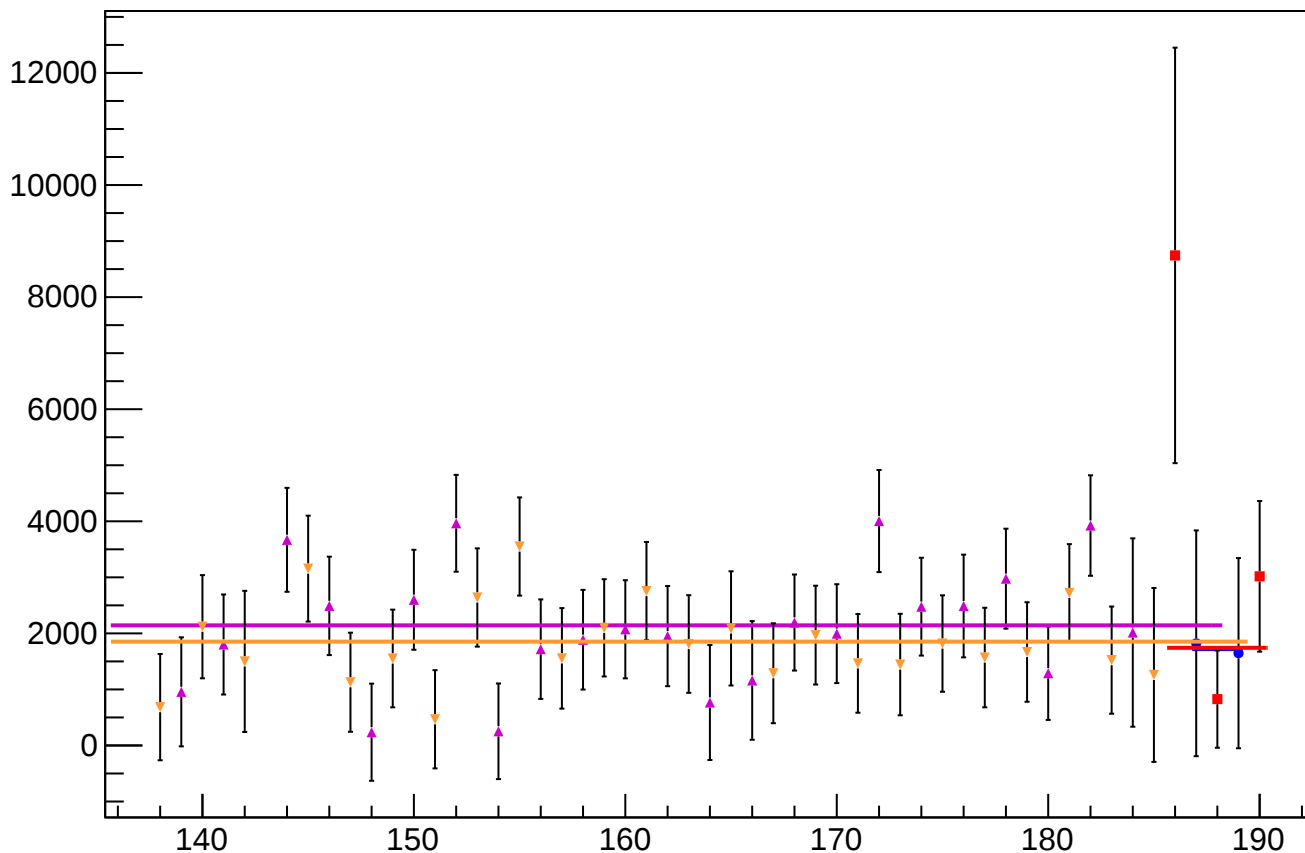
Right: 1003.658+/-0.195 χ^2/NDF : 10296616.7/54

In: 975.109+/-0.141 χ^2/NDF : 5162520.4/48

Out: 966.190+/-0.137 χ^2/NDF : 5978032.8/53

All: 970.506+/-0.098 χ^2/NDF : 11142608.0/100

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

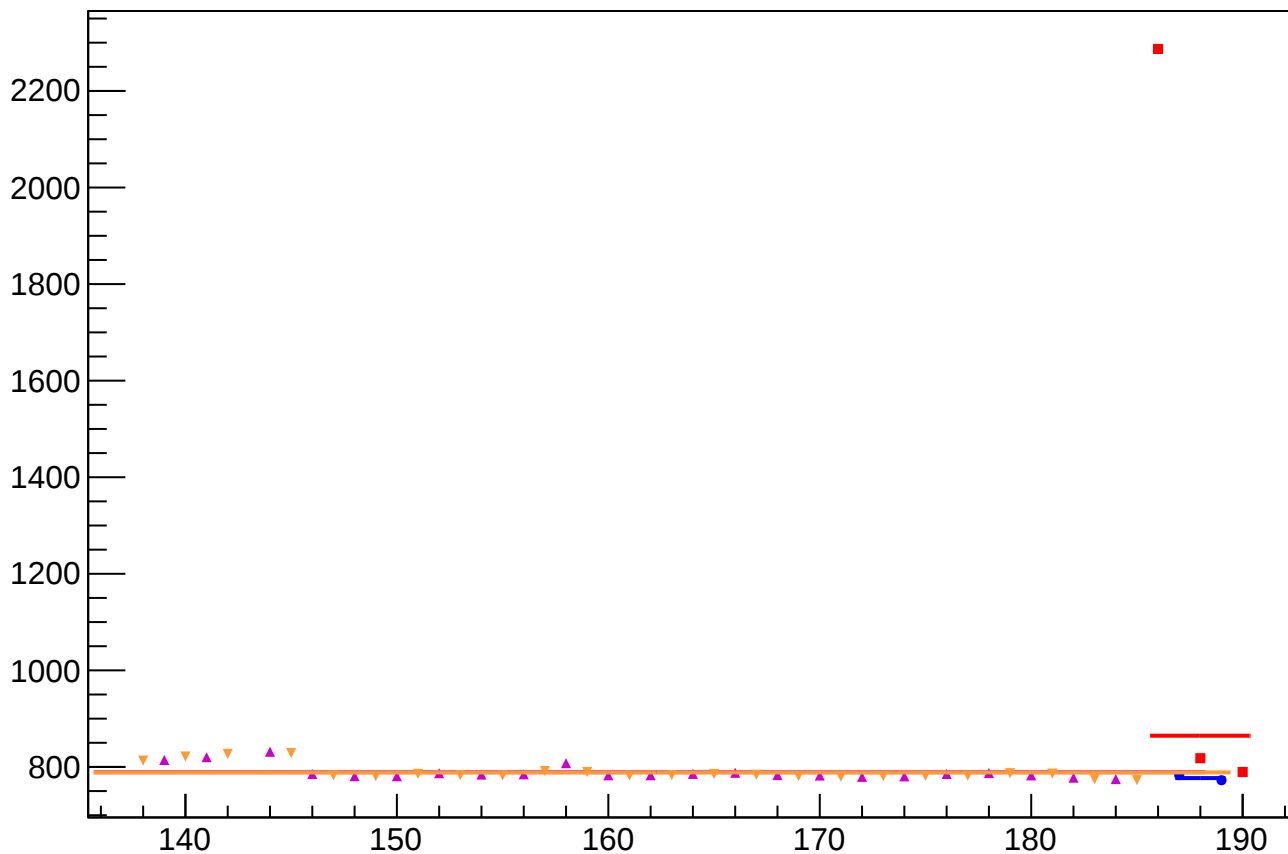
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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

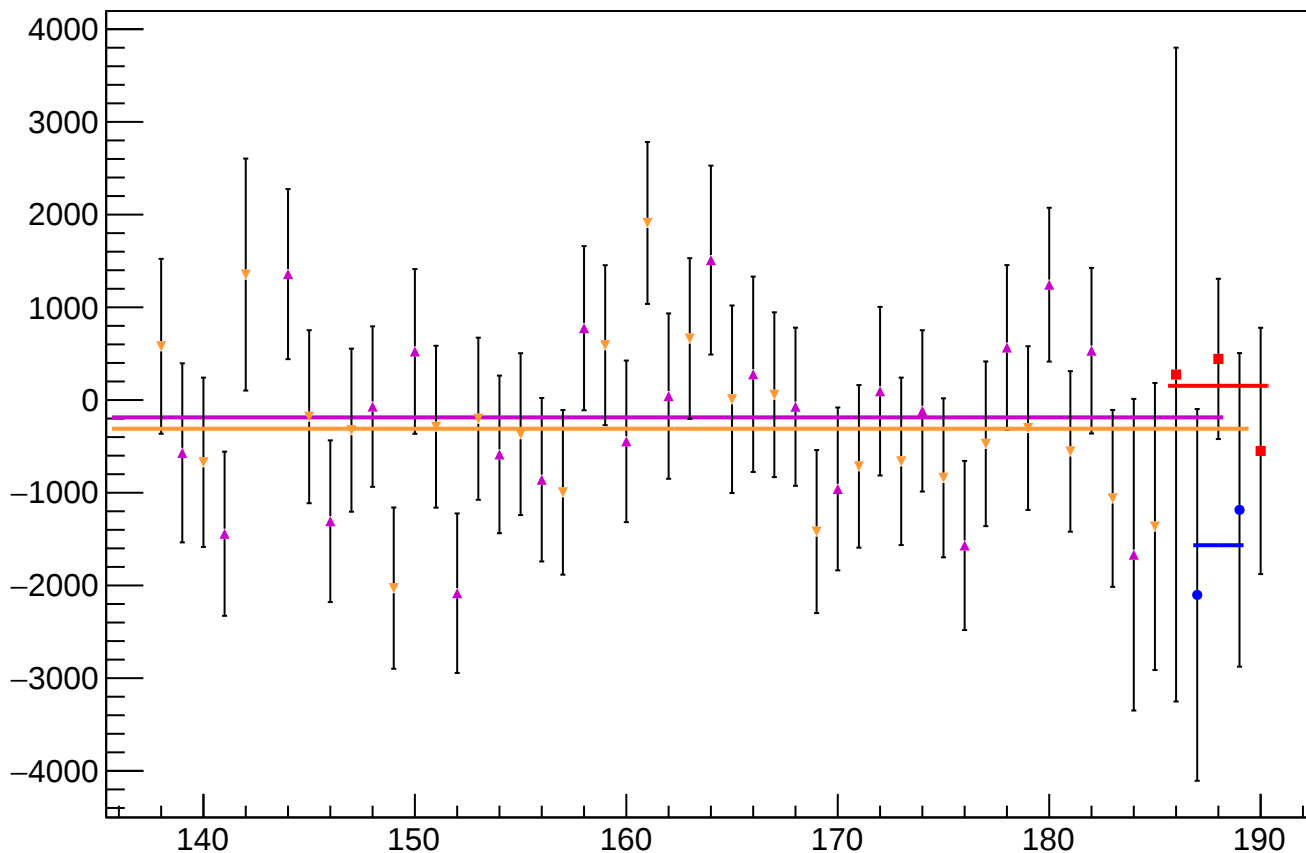
Right: 844.207 $\pm$ 0.443 χ^2/NDF : 313539.0/4

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

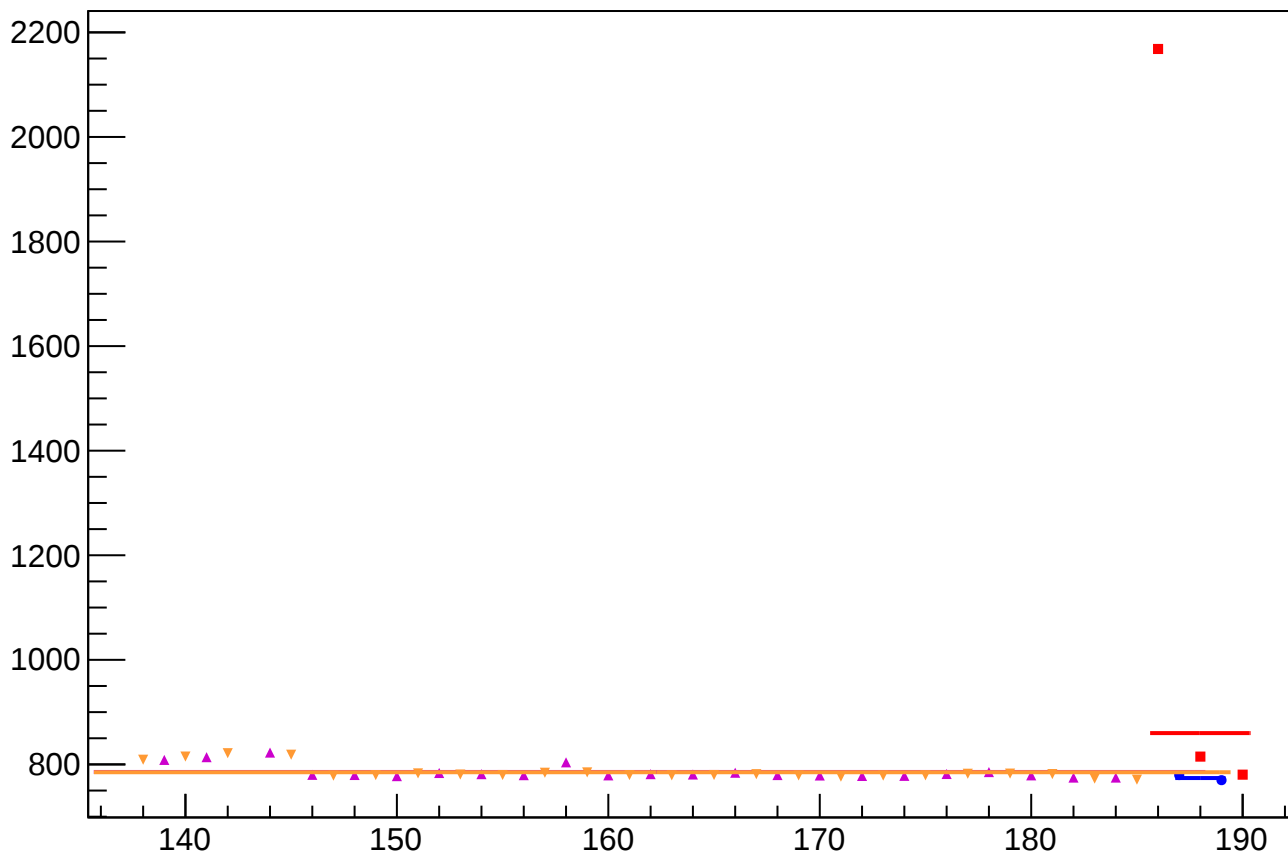
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

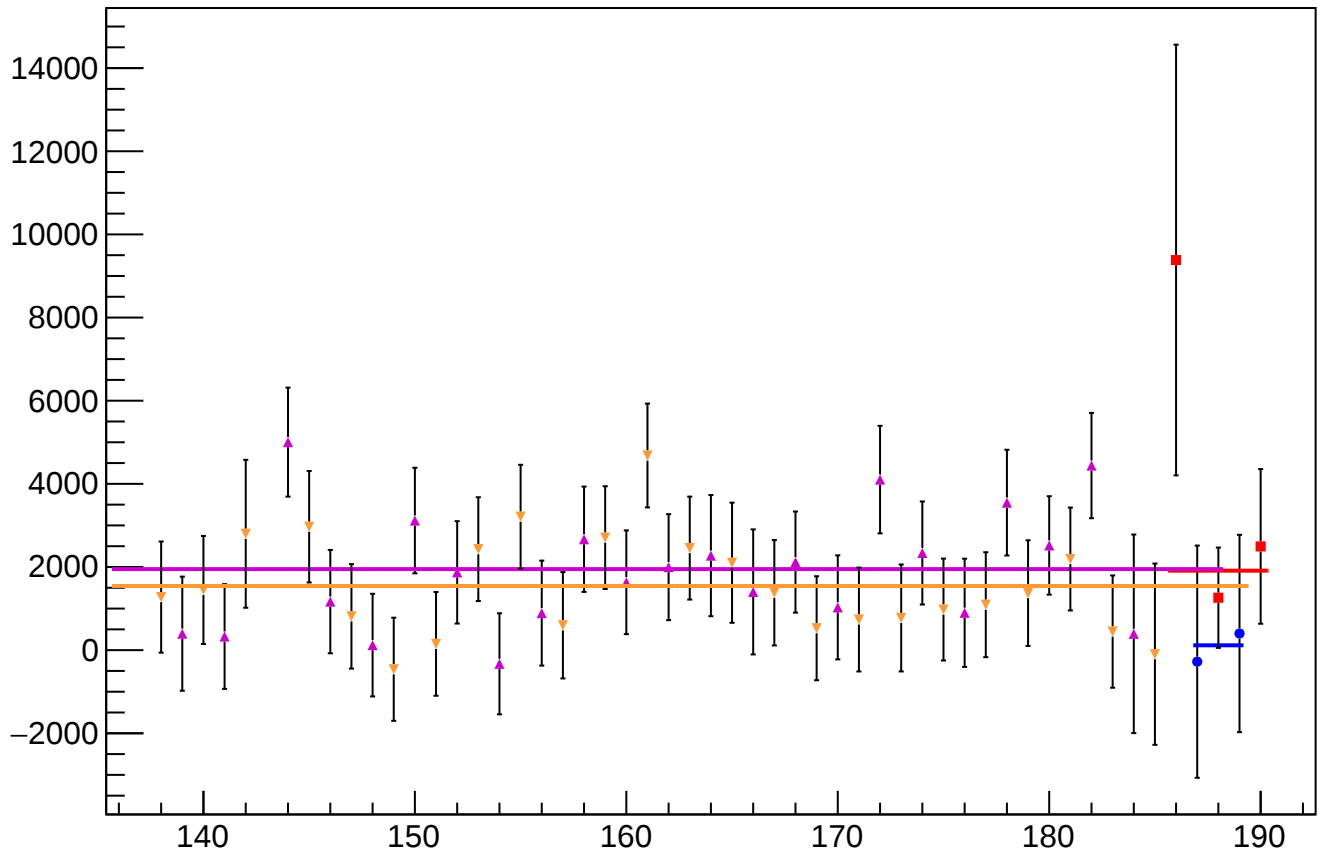
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

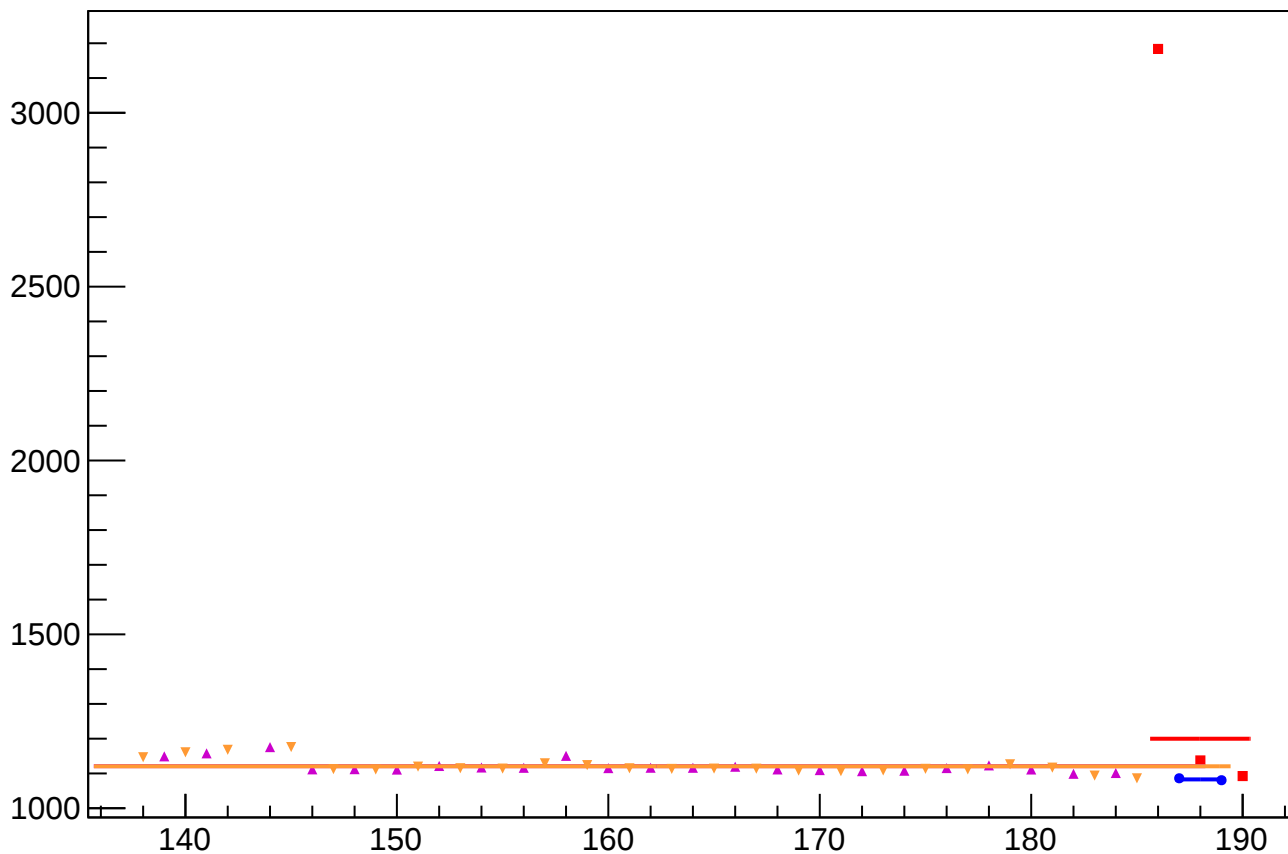
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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+/-1.279 χ^2/NDF : 4.6/1

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

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

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

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

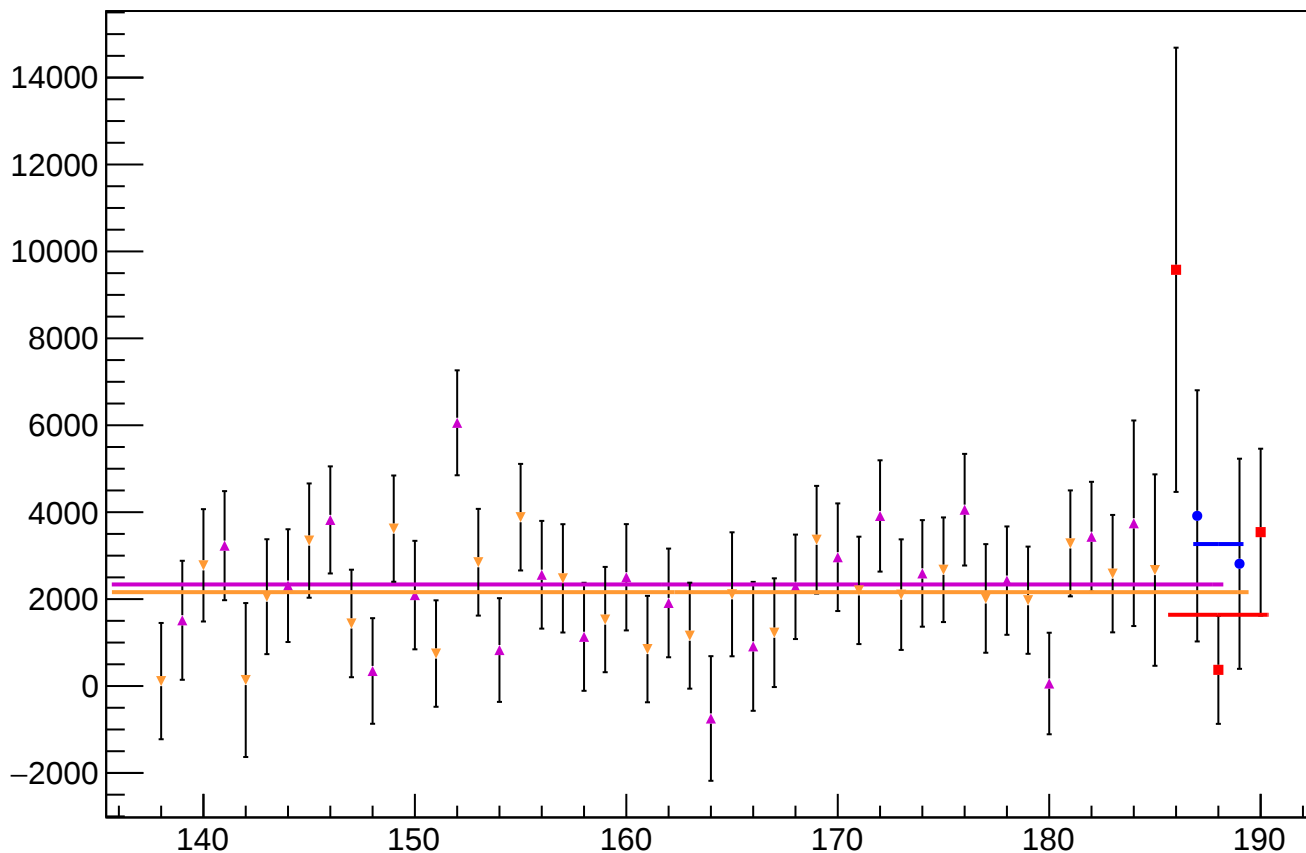
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

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

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

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

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

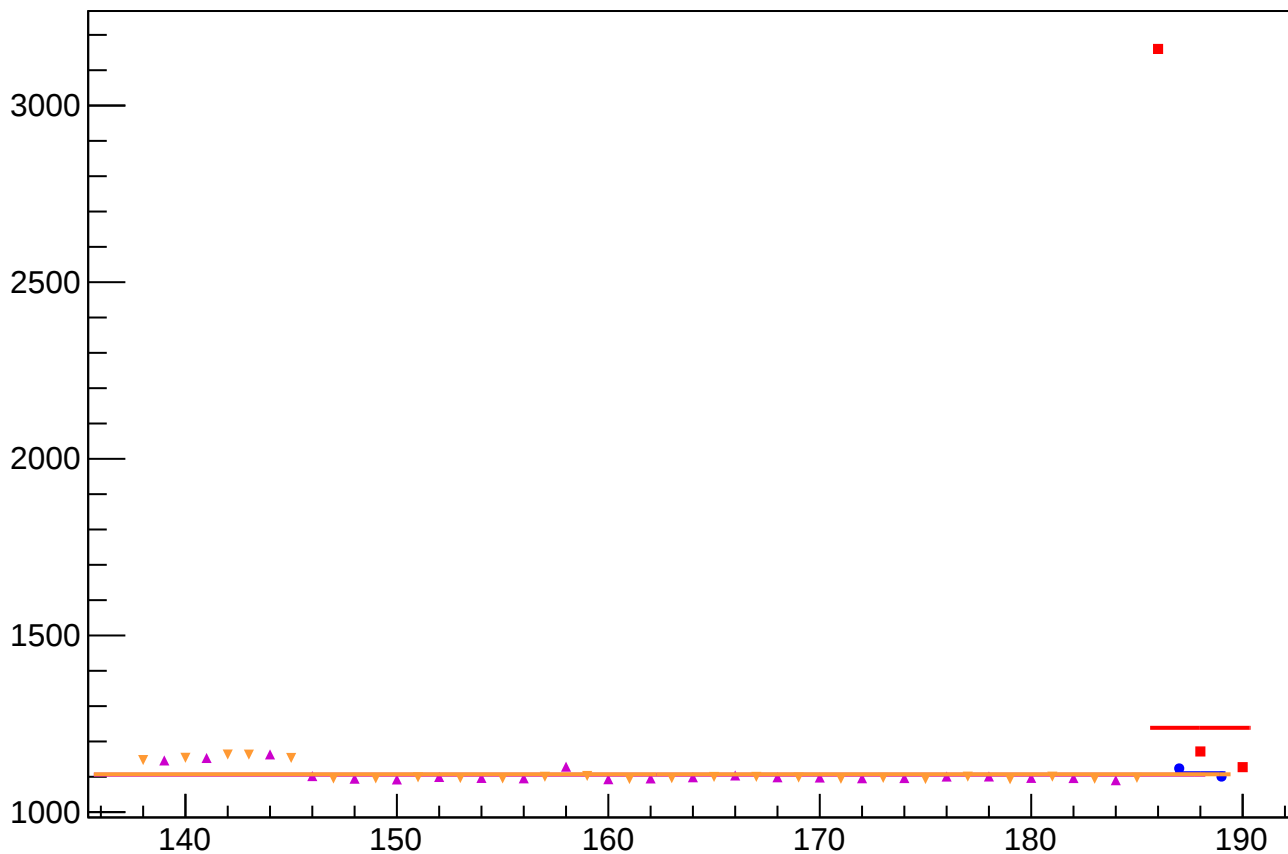
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



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

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

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

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

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

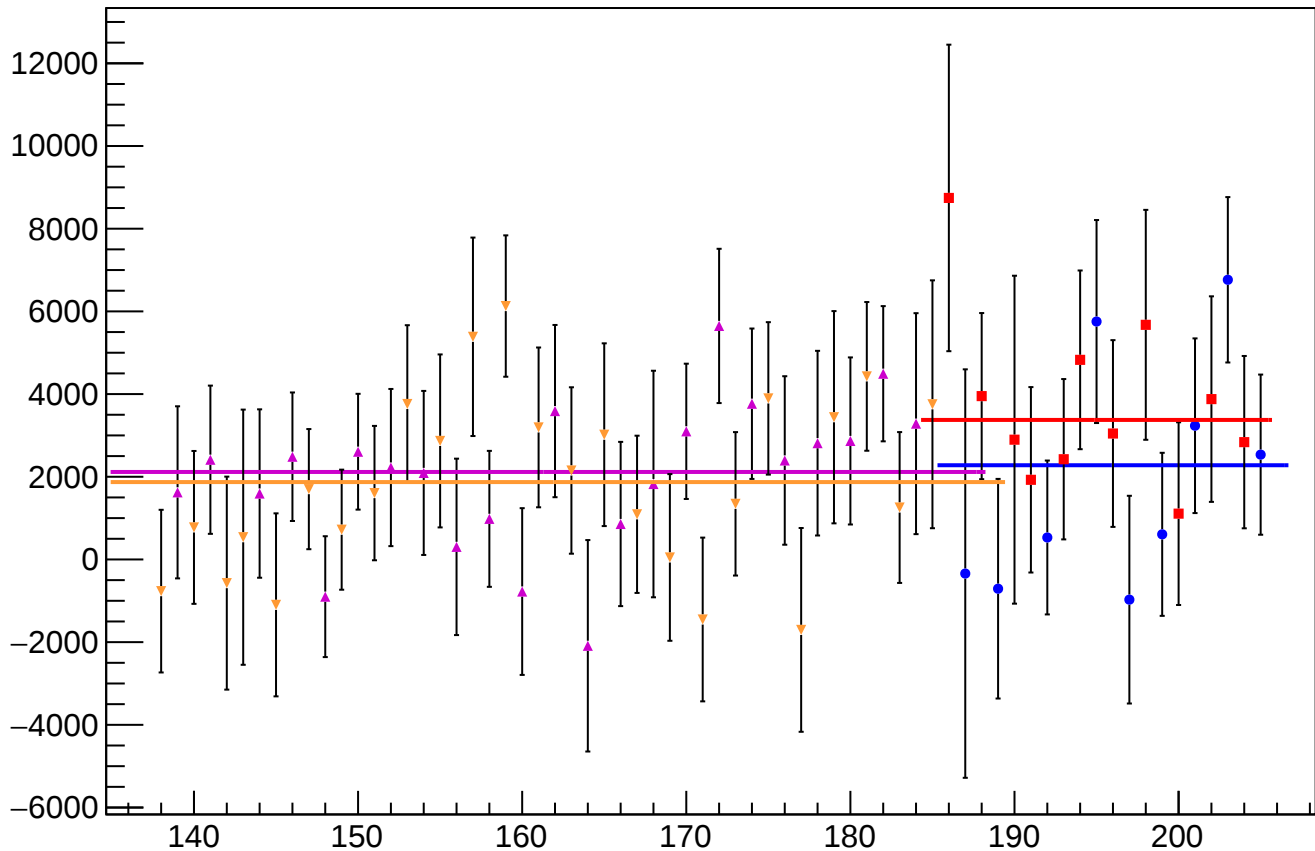
Right: 1208.687 $\pm$ 0.633 χ^2/NDF : 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 2278.760+/-746.672 χ^2/NDF : 12.1/8

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

Right Out: 3374.768+/-709.718 χ^2/NDF : 5.2/10

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

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

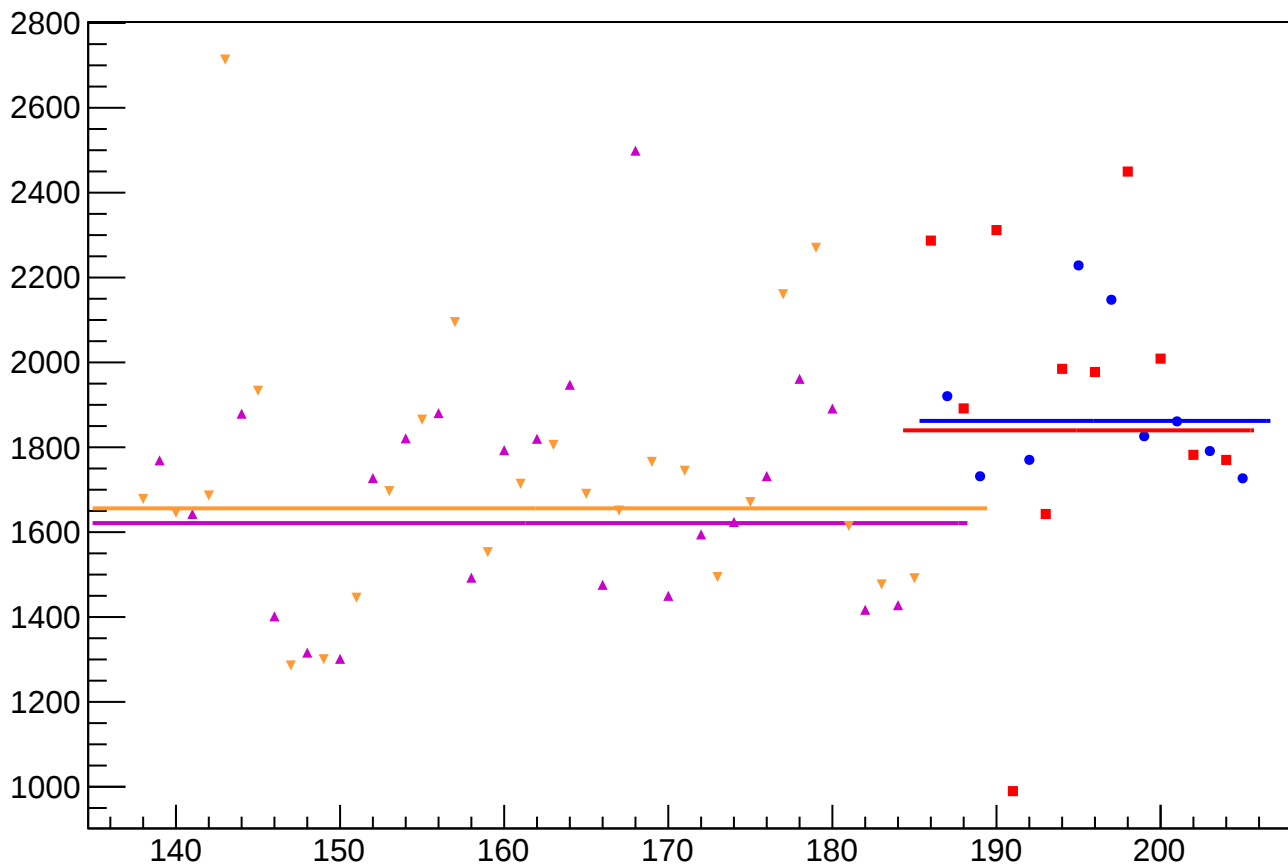
Right: 2854.556+/-514.414 χ^2/NDF : 18.4/19

In: 2151.397+/-347.768 χ^2/NDF : 30.9/31

Out: 2222.572+/-342.926 χ^2/NDF : 34.7/35

All: 2187.483+/-244.179 χ^2/NDF : 65.6/67

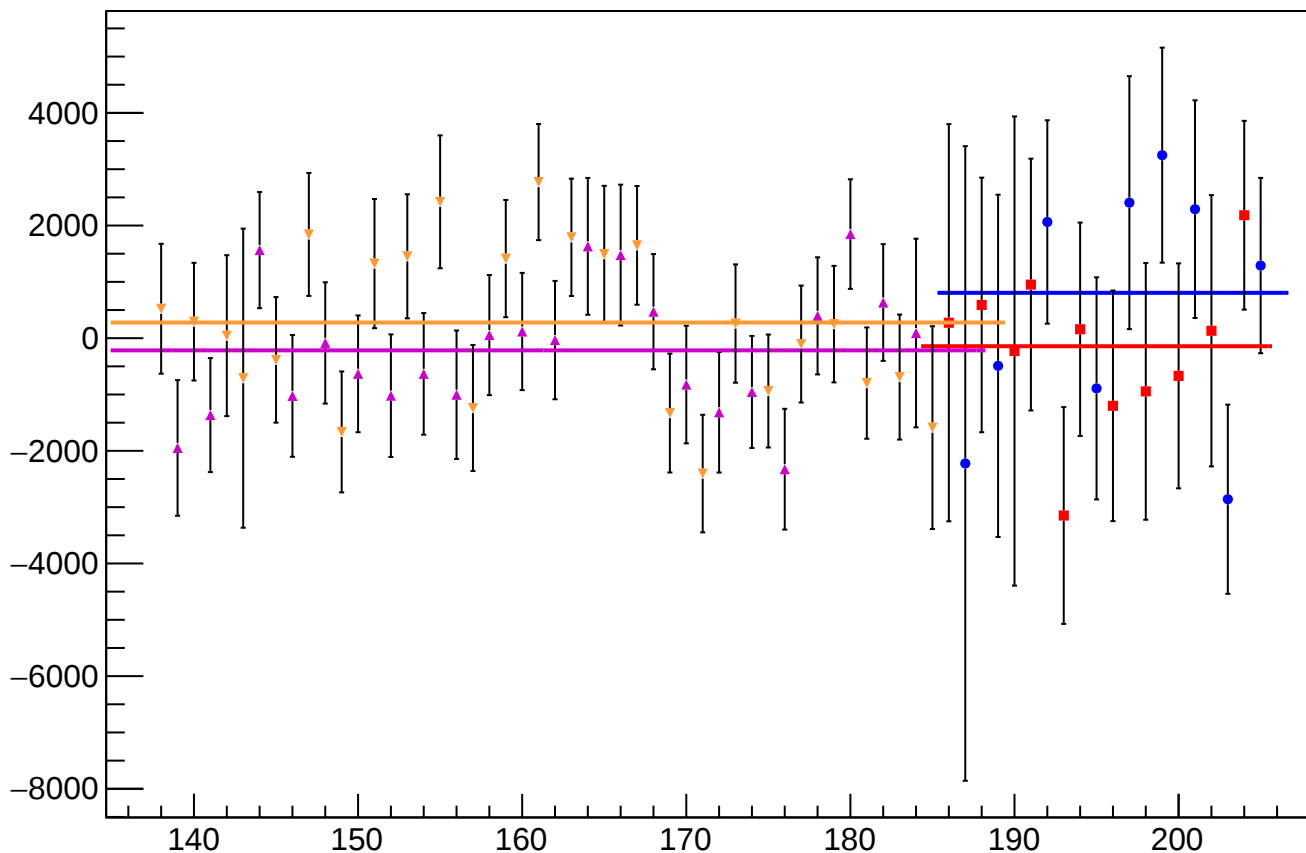
asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1862.189 $\pm$ 0.528 χ^2 /NDF: 93310.3/8
 Left Out: 1656.119 $\pm$ 0.277 χ^2 /NDF: 910573.4/24
 Right Out: 1839.868 $\pm$ 0.502 χ^2 /NDF: 494518.7/10
 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: 1850.462 $\pm$ 0.364 χ^2 /NDF: 588768.0/19
 In: 1673.648 $\pm$ 0.246 χ^2 /NDF: 1031469.1/31
 Out: 1699.019 $\pm$ 0.242 χ^2 /NDF: 1507854.6/35
 All: 1686.511 $\pm$ 0.173 χ^2 /NDF: 2544720.7/67

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 805.475 $\pm$ 672.414 χ^2 /NDF: 9.3/8

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

Right Out: -142.632 $\pm$ 660.352 χ^2 /NDF: 5.2/10

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

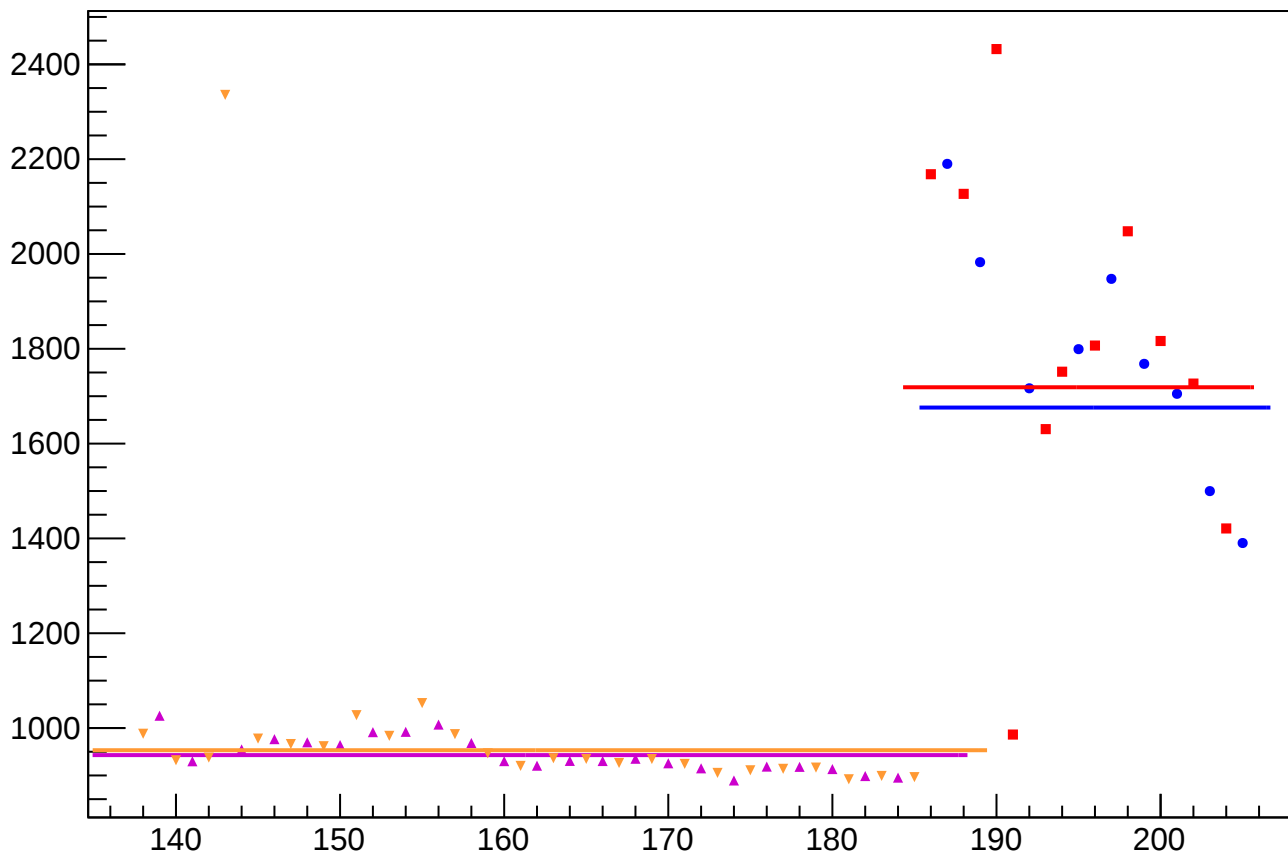
Right: 322.841 $\pm$ 471.146 χ^2 /NDF: 15.5/19

In: -112.759 $\pm$ 213.883 χ^2 /NDF:35.8/31

Out: 234.821 $\pm$ 211.772 χ^2 /NDF:44.0/35

All: 62.755 $\pm$ 150.486 χ^2 /NDF: 81.1/67

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1676.054 $\pm$ 0.475 χ^2/NDF : 169633.5/8

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

Right Out: 1718.853 $\pm$ 0.467 χ^2/NDF : 489356.0/10

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

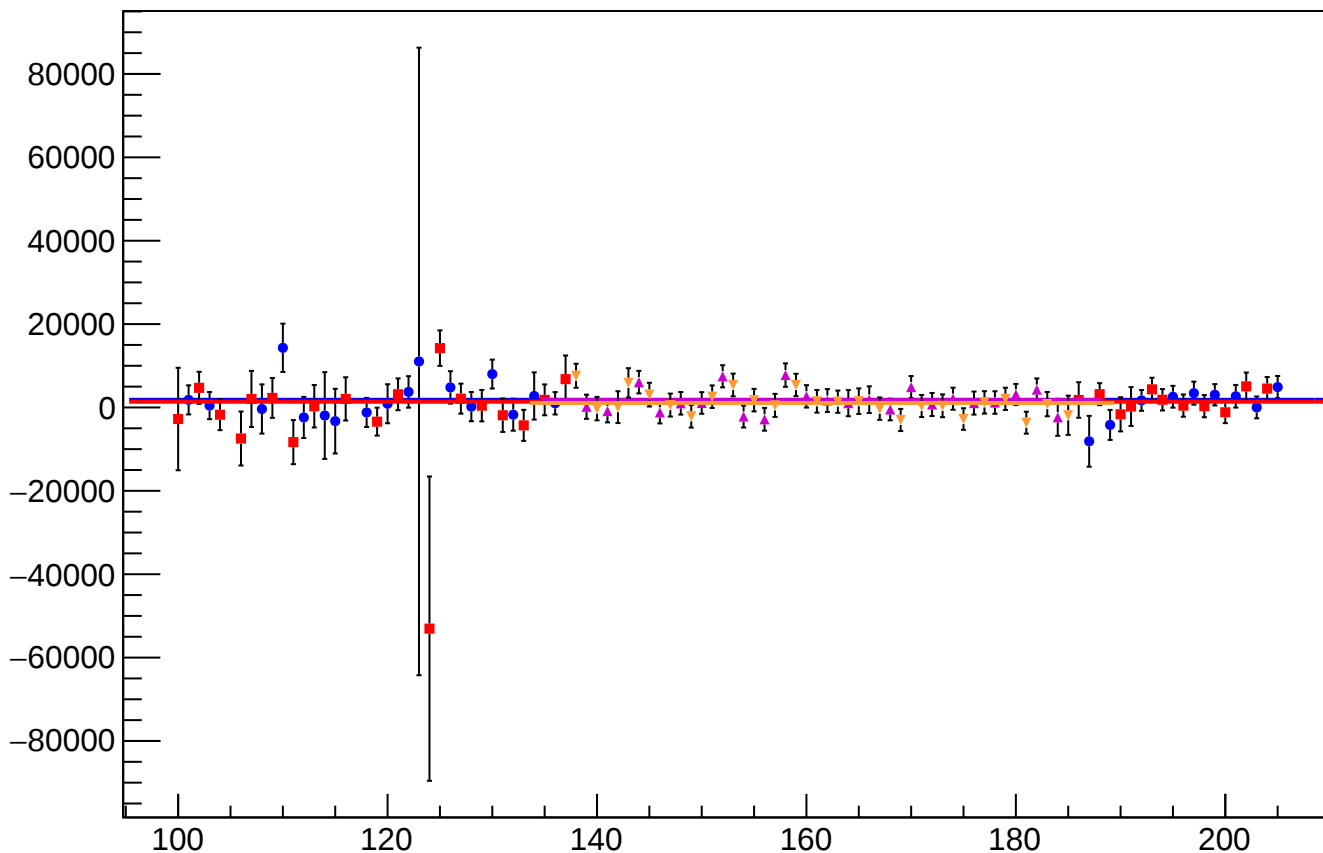
Right: 1697.841 $\pm$ 0.333 χ^2/NDF : 663114.1/19

In: 1017.102 $\pm$ 0.151 χ^2/NDF : 2354962.1/31

Out: 1031.963 $\pm$ 0.150 χ^2/NDF : 3507680.3/35

All: 1024.606 $\pm$ 0.106 χ^2/NDF : 5867518.0/67

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1837.933 $\pm$ 692.118 χ^2/NDF : 20.3/25

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

Right Out: 1376.105 $\pm$ 676.579 χ^2/NDF : 30.5/29

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

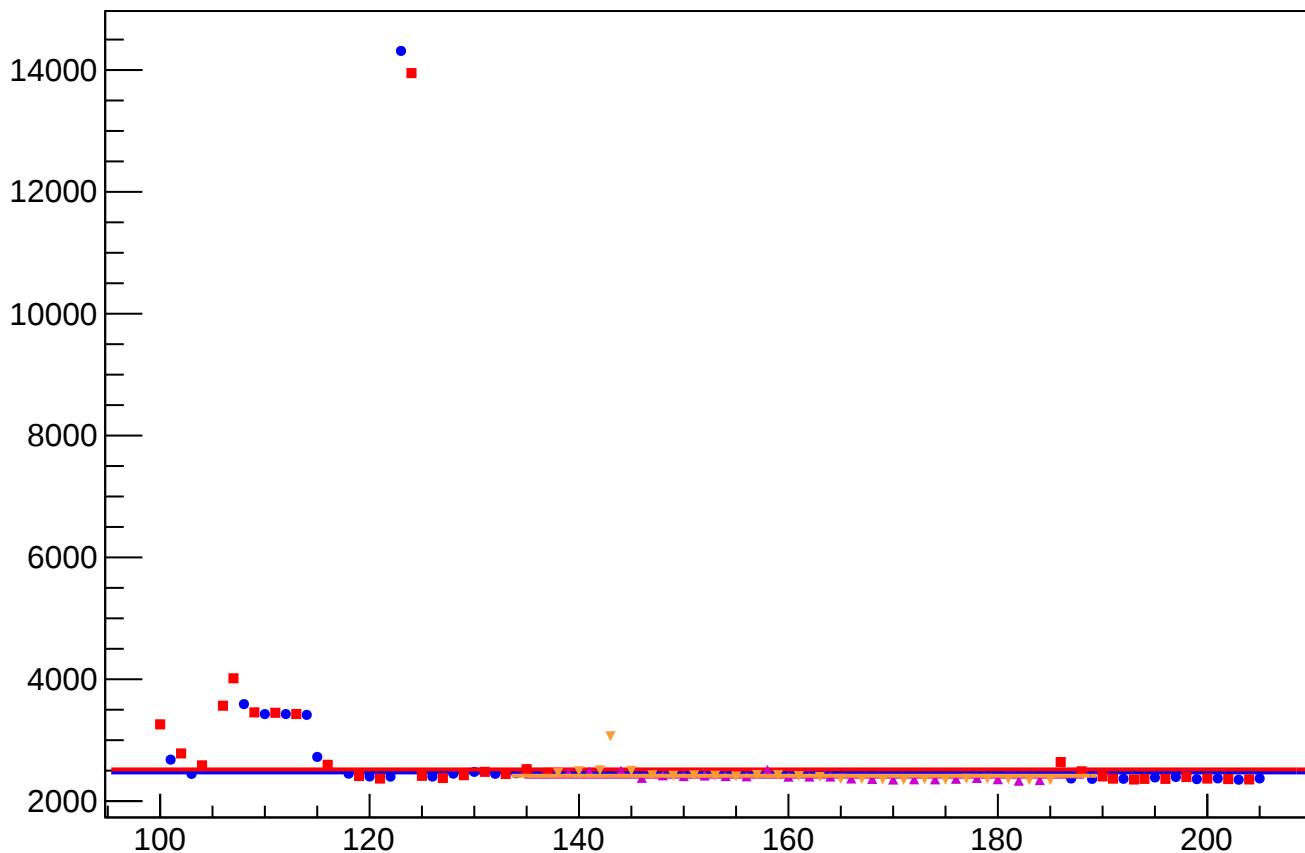
Right: 1601.776 $\pm$ 483.814 χ^2/NDF : 51.0/55

In: 1801.987 $\pm$ 442.688 χ^2/NDF : 44.4/48

Out: 1200.255 $\pm$ 433.221 χ^2/NDF : 54.2/54

All: 1494.618 $\pm$ 309.626 χ^2/NDF : 99.5/103

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2471.124+/-0.489 χ^2/NDF : 302327.5/25

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

Right Out: 2520.017+/-0.478 χ^2/NDF : 628006.0/29

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

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

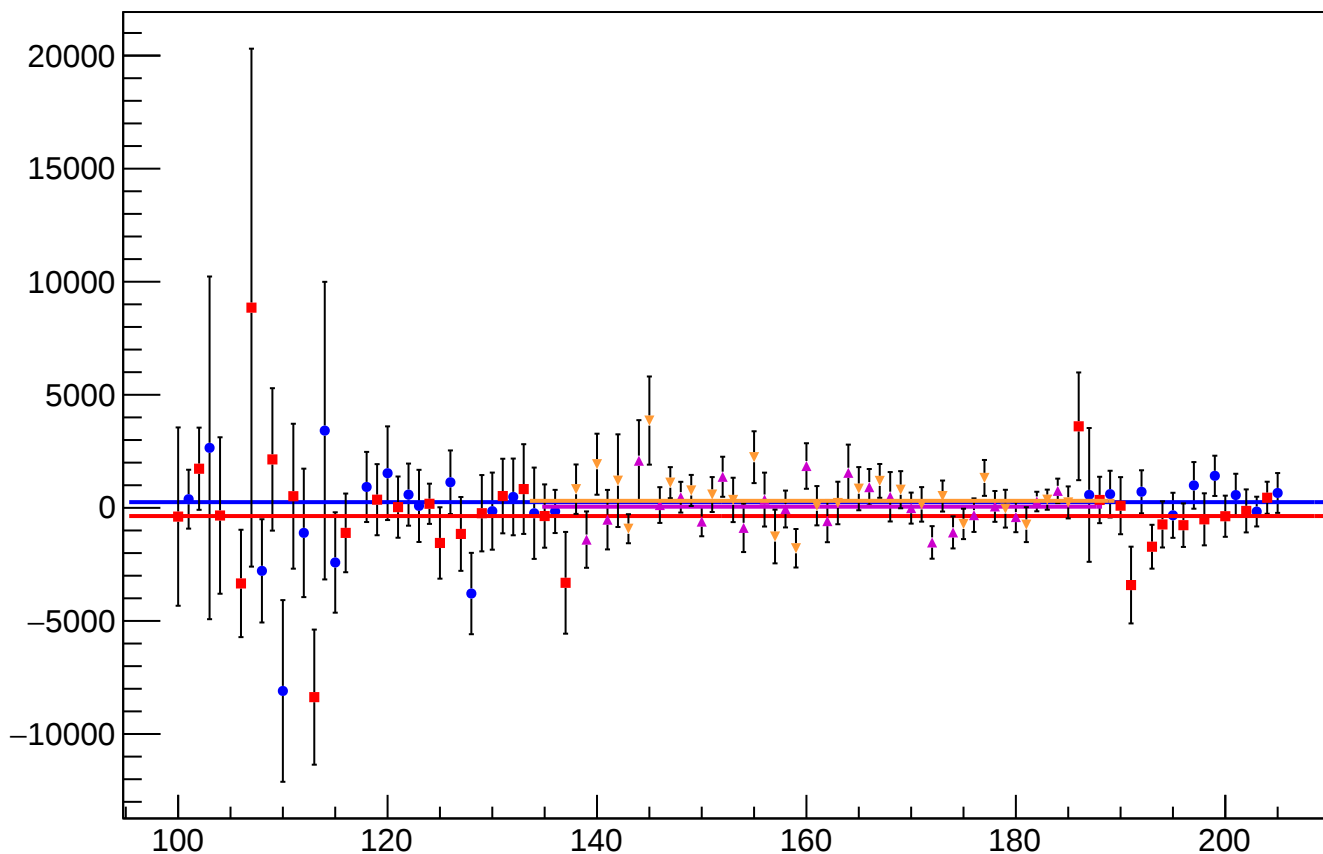
Right: 2496.126+/-0.342 χ^2/NDF : 935437.1/55

In: 2429.937+/-0.313 χ^2/NDF : 328061.3/48

Out: 2458.658+/-0.306 χ^2/NDF : 738522.0/54

All: 2444.608+/-0.219 χ^2/NDF : 1070883.4/100

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 253.046+/-252.151 χ^2/NDF : 18.2/25

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

Right Out: -362.299+/-248.312 χ^2/NDF : 25.7/29

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

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

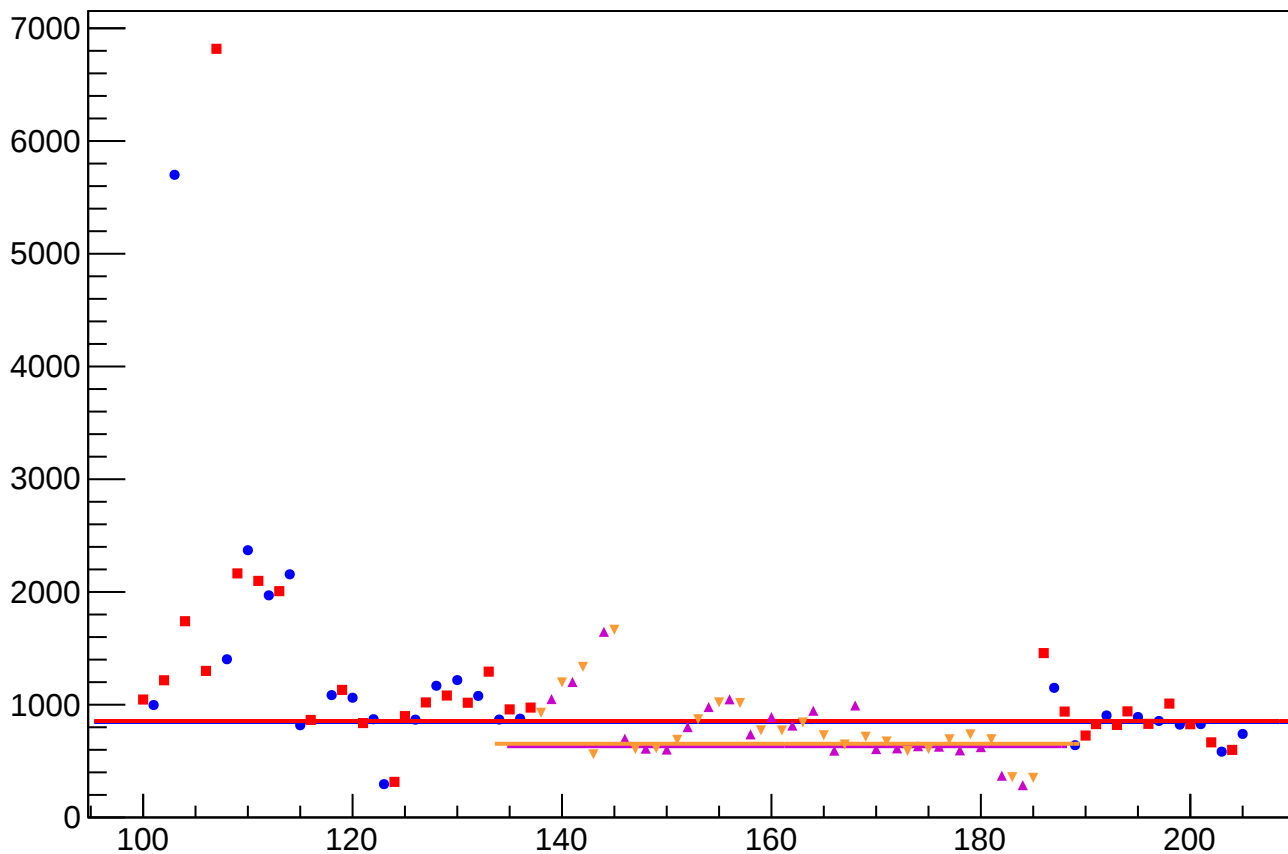
Right: -59.346+/-176.925 χ^2/NDF : 46.9/55

In: 110.221+/-136.142 χ^2/NDF : 42.5/48

Out: 112.244+/-134.883 χ^2/NDF : 60.7/54

All: 111.242+/-95.819 χ^2/NDF : 103.1/103

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 846.949 $\pm$ 0.178 χ^2 /NDF: 2616751.5/25

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

Right Out: 855.771 $\pm$ 0.176 χ^2 /NDF: 3320872.4/29

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

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

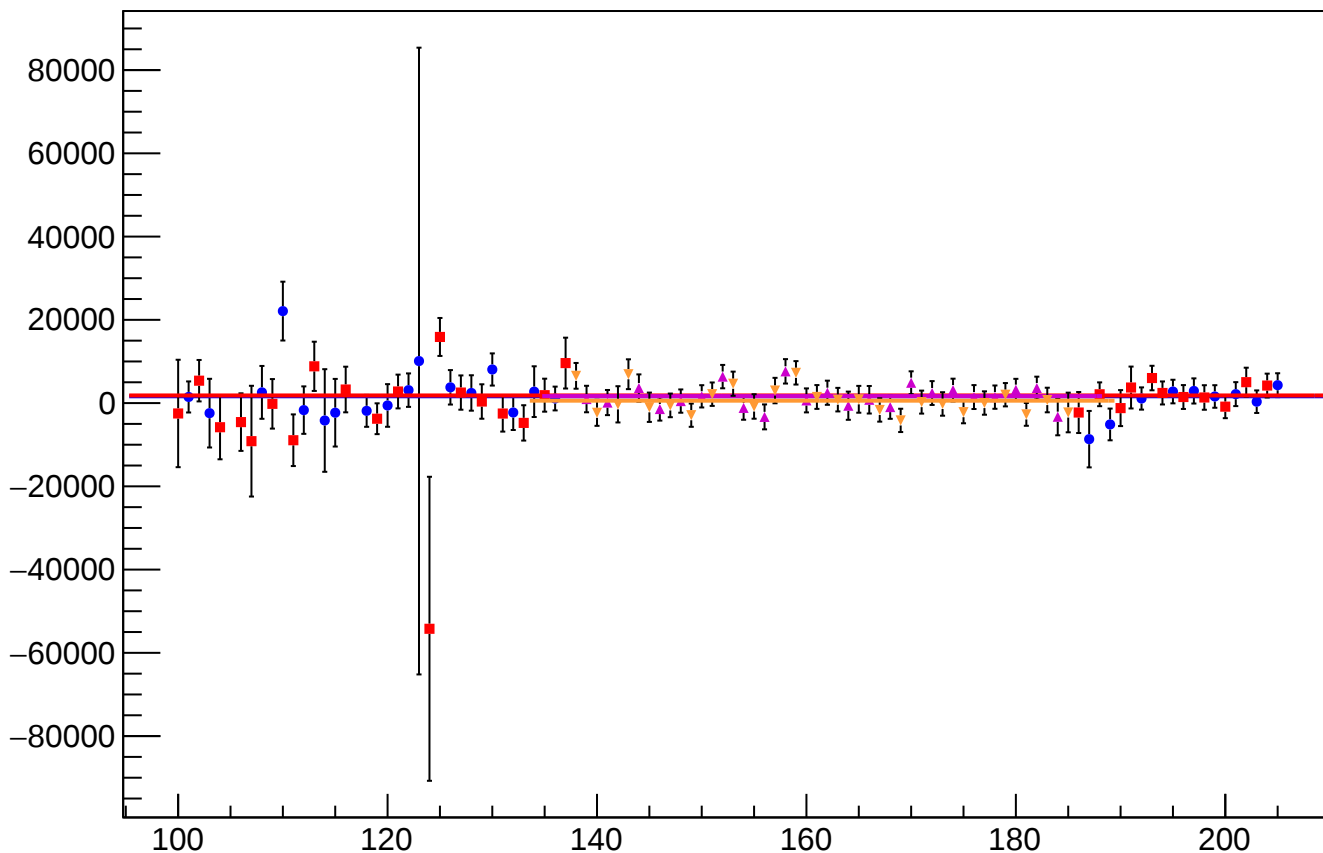
Right: 851.428 $\pm$ 0.125 χ^2 /NDF: 5938866.6/55

In: 694.699 $\pm$ 0.096 χ^2 /NDF: 7588798.6/48

Out: 713.396 $\pm$ 0.095 χ^2 /NDF: 7508282.5/54

All: 704.135 $\pm$ 0.068 χ^2 /NDF: 15116117.5/100

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1634.005+/-762.803 χ^2/NDF : 21.6/25

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

Right Out: 1834.244+/-749.641 χ^2/NDF : 33.0/29

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

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

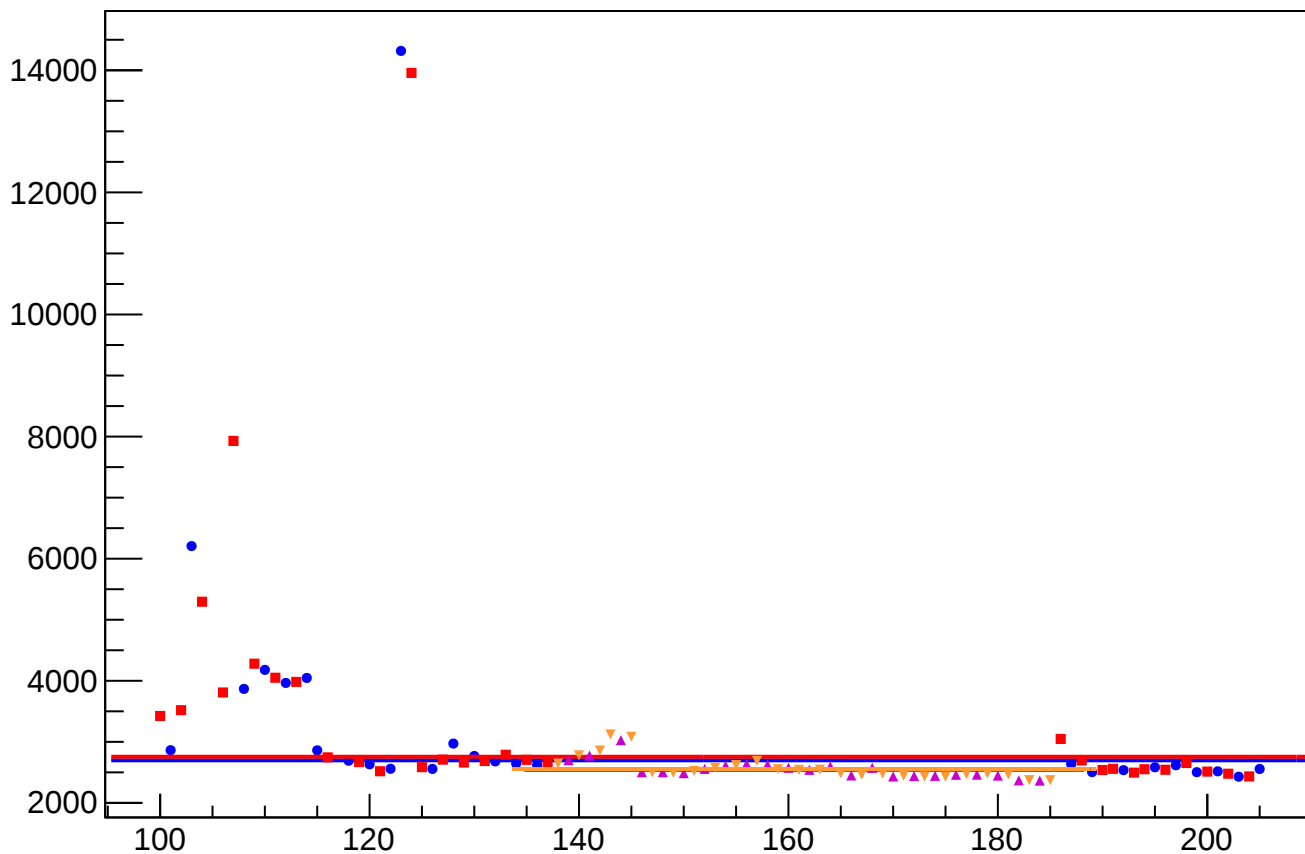
Right: 1735.867+/-534.669 χ^2/NDF : 54.7/55

In: 1661.795+/-476.456 χ^2/NDF : 39.8/48

Out: 1067.468+/-467.085 χ^2/NDF : 60.1/54

All: 1358.729+/-333.543 χ^2/NDF : 100.6/103

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2697.813+/-0.539 χ^2/NDF : 768398.4/25

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

Right Out: 2755.915+/-0.530 χ^2/NDF : 1233693.6/29

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

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

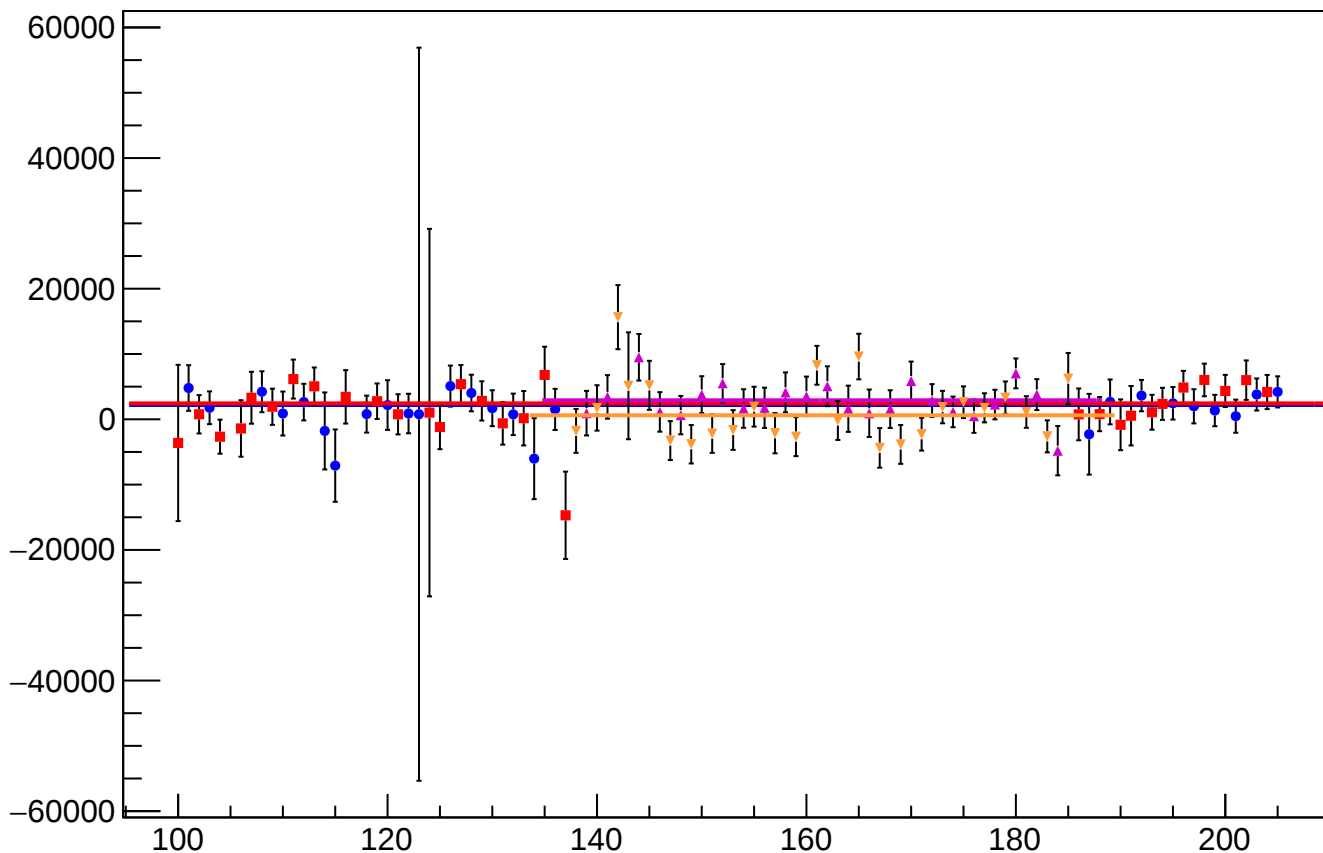
Right: 2727.370+/-0.378 χ^2/NDF : 2007994.8/55

In: 2602.172+/-0.337 χ^2/NDF :914709.5/48

Out: 2633.171+/-0.330 χ^2/NDF :1476083.1/54

All: 2617.979+/-0.236 χ^2/NDF : 2395109.9/100

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2187.433+/-600.416 χ^2/NDF : 10.8/25

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

Right Out: 2440.355+/-581.411 χ^2/NDF : 26.1/29

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

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

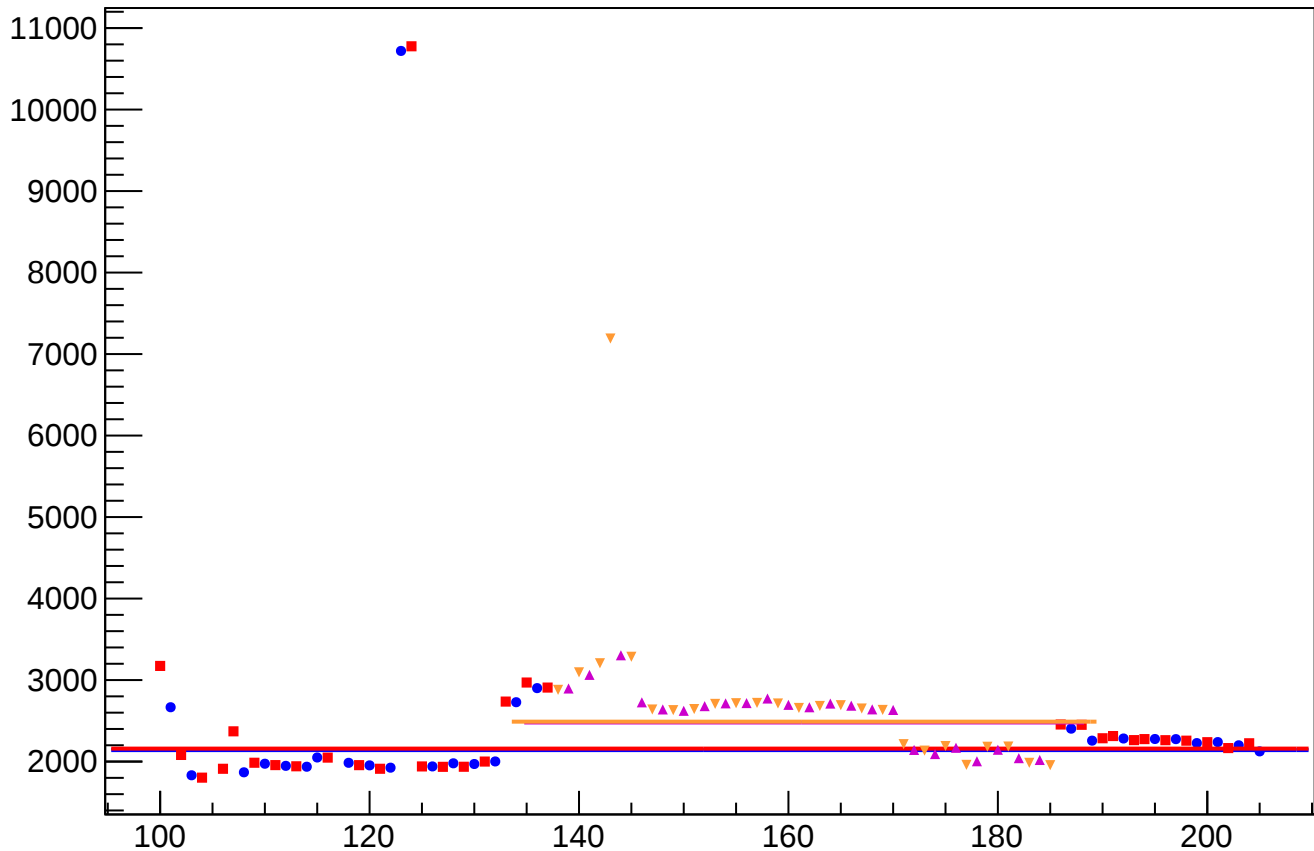
Right: 2317.960+/-417.677 χ^2/NDF : 37.0/55

In: 2548.717+/-424.295 χ^2/NDF : 28.9/48

Out: 1542.767+/-414.519 χ^2/NDF : 76.1/54

All: 2034.020+/-296.505 χ^2/NDF : 107.9/103

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2140.507 $\pm$ 0.425 χ^2 /NDF: 367965.9/25

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

Right Out: 2158.978 $\pm$ 0.411 χ^2 /NDF: 534013.1/29

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

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

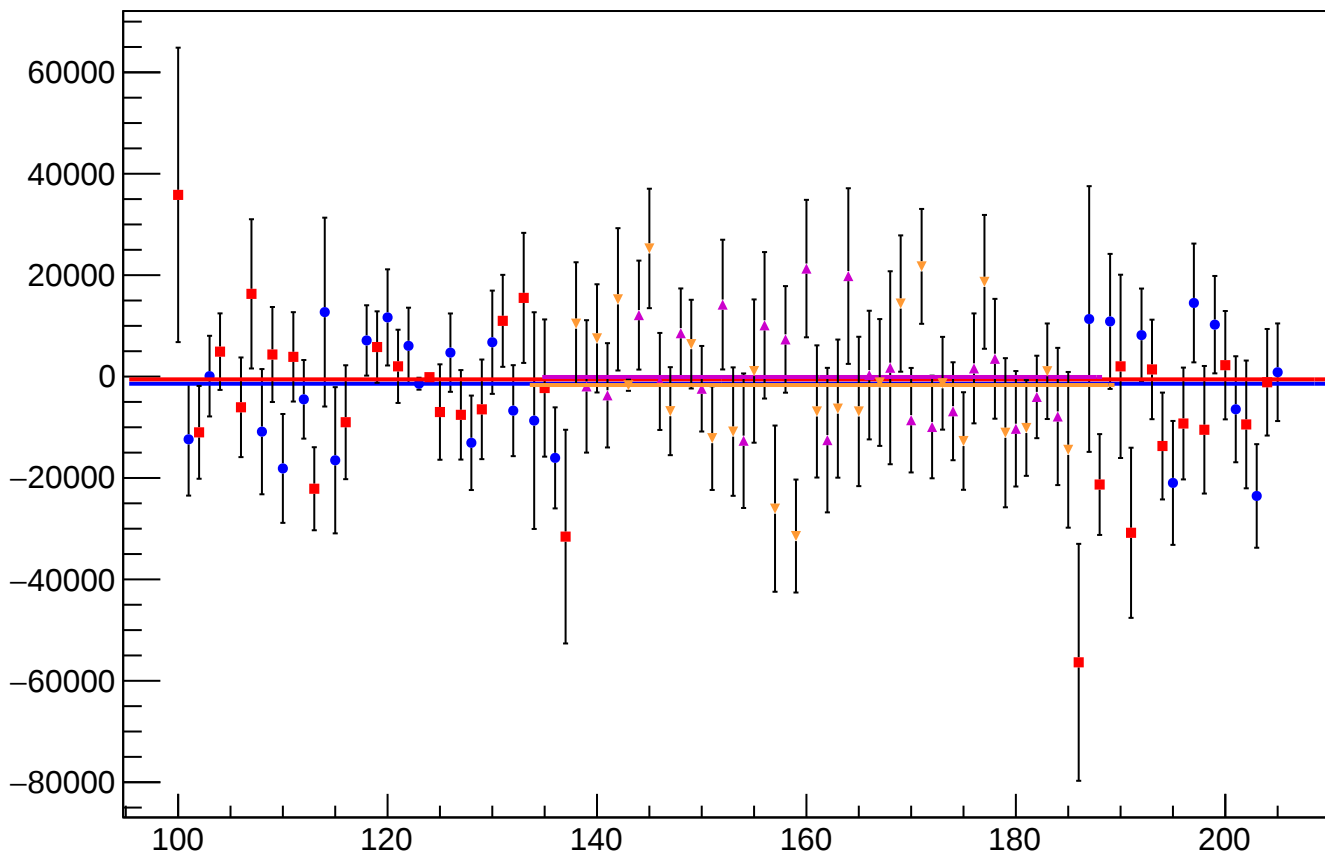
Right: 2150.039 $\pm$ 0.295 χ^2 /NDF: 902955.8/55

In: 2310.137 $\pm$ 0.300 χ^2 /NDF:1355243.6/48

Out: 2321.532 $\pm$ 0.293 χ^2 /NDF:2216170.8/54

All: 2315.967 $\pm$ 0.210 χ^2 /NDF: 3572152.4/100

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1411.891+/-1014.119 χ^2/NDF : 28.8/25

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

Right Out: -549.186+/-682.807 χ^2/NDF : 37.9/29

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

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

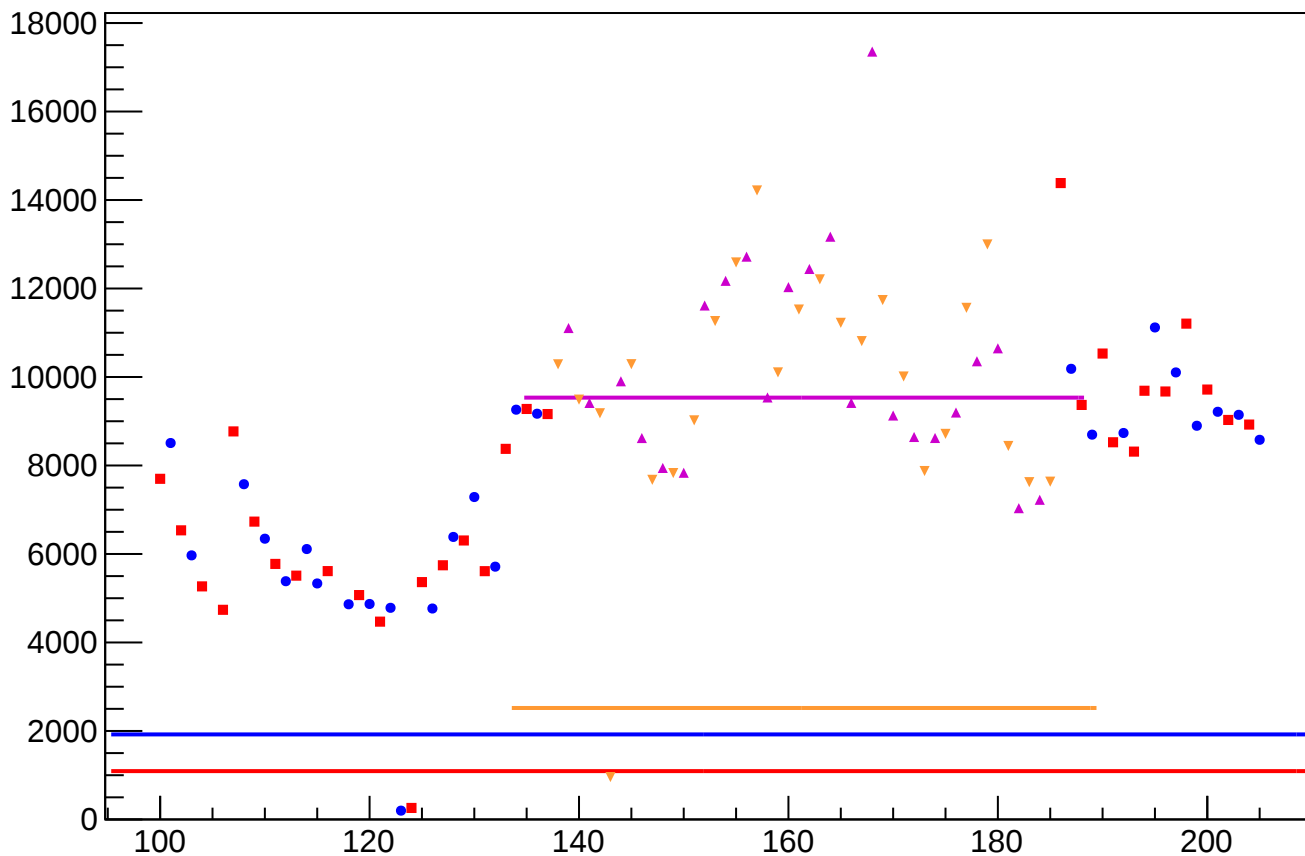
Right: -818.287+/-566.390 χ^2/NDF : 67.2/55

In: -1200.043+/-929.959 χ^2/NDF : 42.8/48

Out: -907.502+/-562.641 χ^2/NDF : 71.2/54

All: -985.891+/-481.392 χ^2/NDF : 114.1/103

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1922.007+/-0.717

χ^2/NDF : 18578638.6/25

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

Right: 1351.234+/-0.400 χ^2/NDF : 42406042.7/55

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 3132.934+/-0.658 χ^2/NDF : 37819640.6/48

Right Out: 1092.484+/-0.483

χ^2/NDF : 22906651.4/29

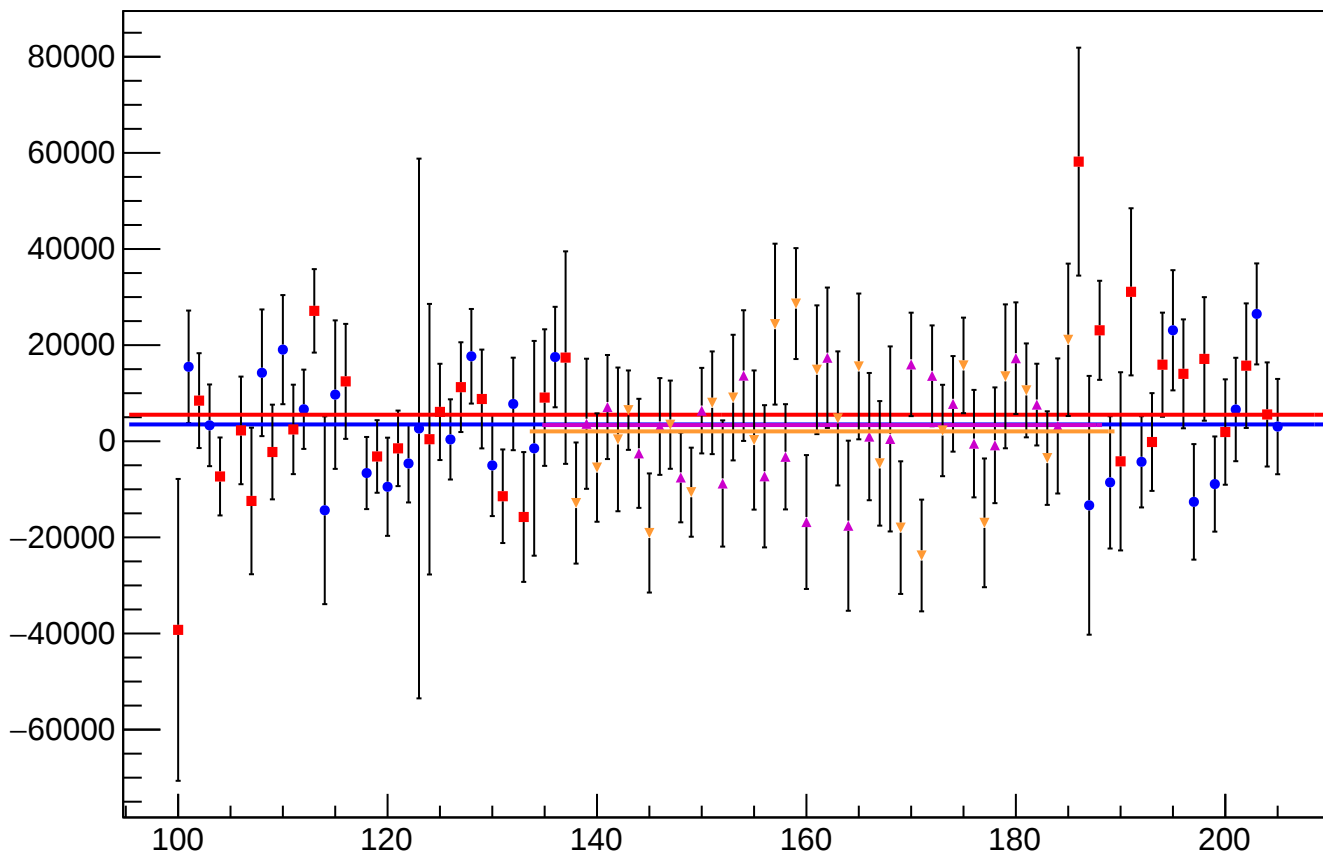
Out: 1550.518+/-0.398 χ^2/NDF : 49352378.9/54

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 1974.542+/-0.340 χ^2/NDF : 91411174.7/13

asym_atl2_mean vs Slug, Sign Corrected



Right In: 3499.901 $\pm$ 2114.039 χ^2 /NDF: 26.6/25

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

Right Out: 5519.738 $\pm$ 2032.787 χ^2 /NDF: 35.5/29

Left In: 3371.931 $\pm$ 2423.242 χ^2 /NDF:13.1/22

Left: 2689.120 $\pm$ 1680.862 χ^2 /NDF: 44.0/47

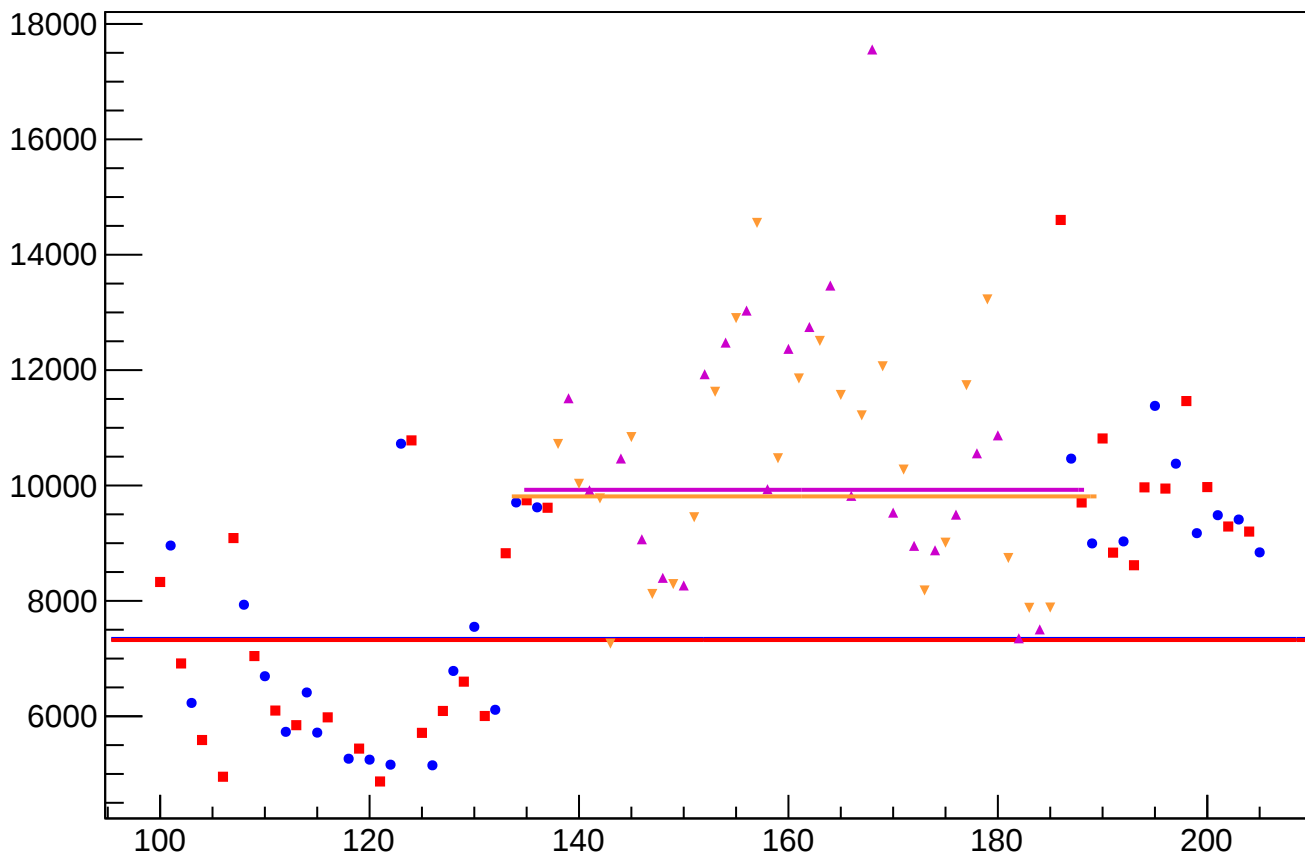
Right: 4549.381 $\pm$ 1465.280 χ^2 /NDF: 62.5/55

In: 3444.597 $\pm$ 1593.027 χ^2 /NDF:39.7/48

Out: 4025.270 $\pm$ 1532.761 χ^2 /NDF:67.5/54

All: 3746.125 $\pm$ 1104.517 χ^2 /NDF: 107.2/103

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7340.375+/-1.495

χ^2/NDF : 1596563.8/25

Left Out: 9811.053+/-1.650

χ^2/NDF : 1213831.0/24

Right Out: 7321.294+/-1.437

χ^2/NDF : 1990419.8/29

Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

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

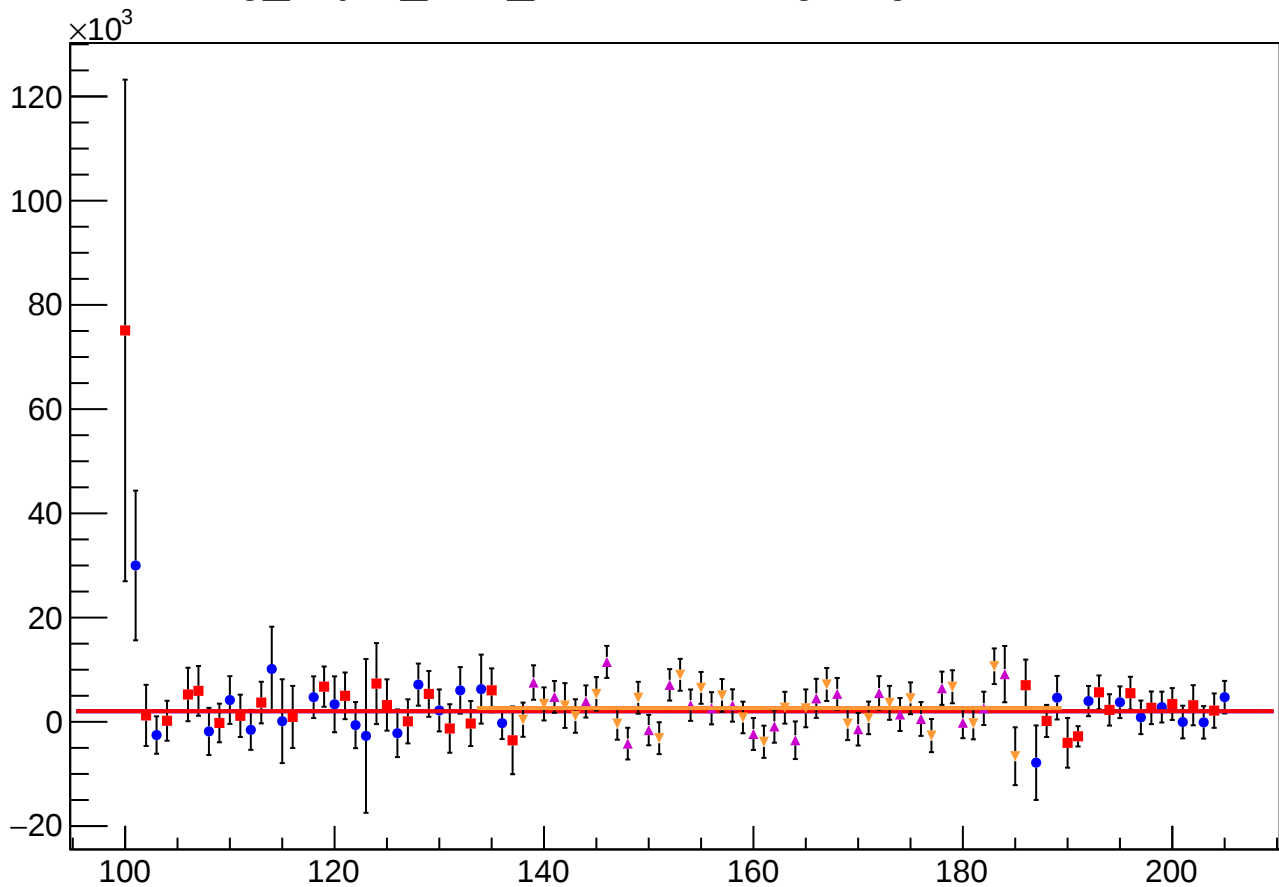
Right: 7330.460+/-1.036 χ^2/NDF : 3587068.3/55

In: 8457.508+/-1.126 χ^2/NDF : 4100426.4/48

Out: 8395.472+/-1.084 χ^2/NDF : 4498769.5/54

All: 8425.294+/-0.781 χ^2/NDF : 8600770.9/10

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2017.158 $\pm$ 789.848 χ^2/NDF : 18.4/25

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

Right Out: 2042.496 $\pm$ 707.841 χ^2/NDF : 21.8/29

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

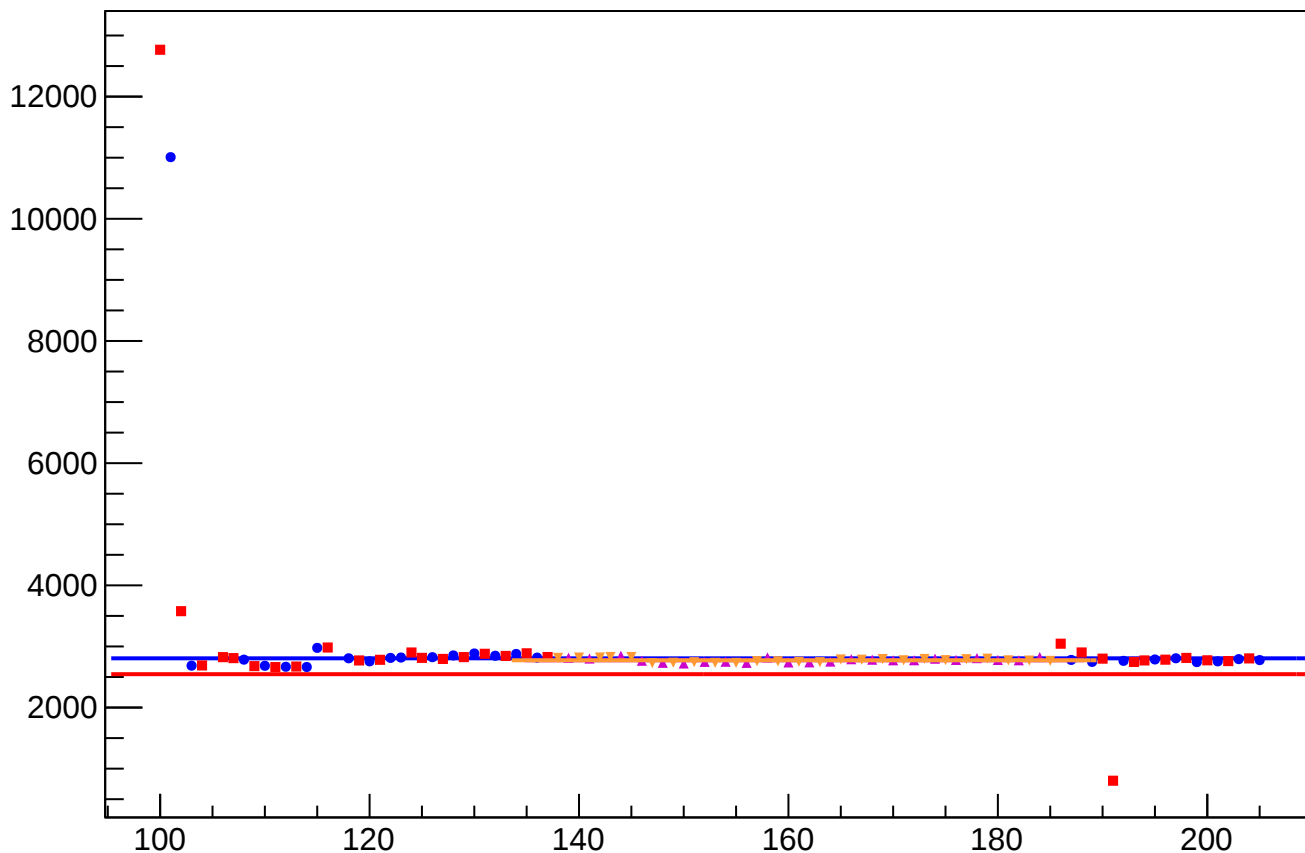
Right: 2031.210 $\pm$ 527.136 χ^2/NDF : 40.3/55

In: 2381.018 $\pm$ 508.516 χ^2/NDF : 54.0/48

Out: 2366.155 $\pm$ 477.207 χ^2/NDF : 57.3/54

All: 2373.115 $\pm$ 347.979 χ^2/NDF : 111.3/103

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.691+/-0.559 χ^2/NDF : 664468.8/25

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

Right Out: 2546.178+/-0.501 χ^2/NDF : 1987584.9/29

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

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

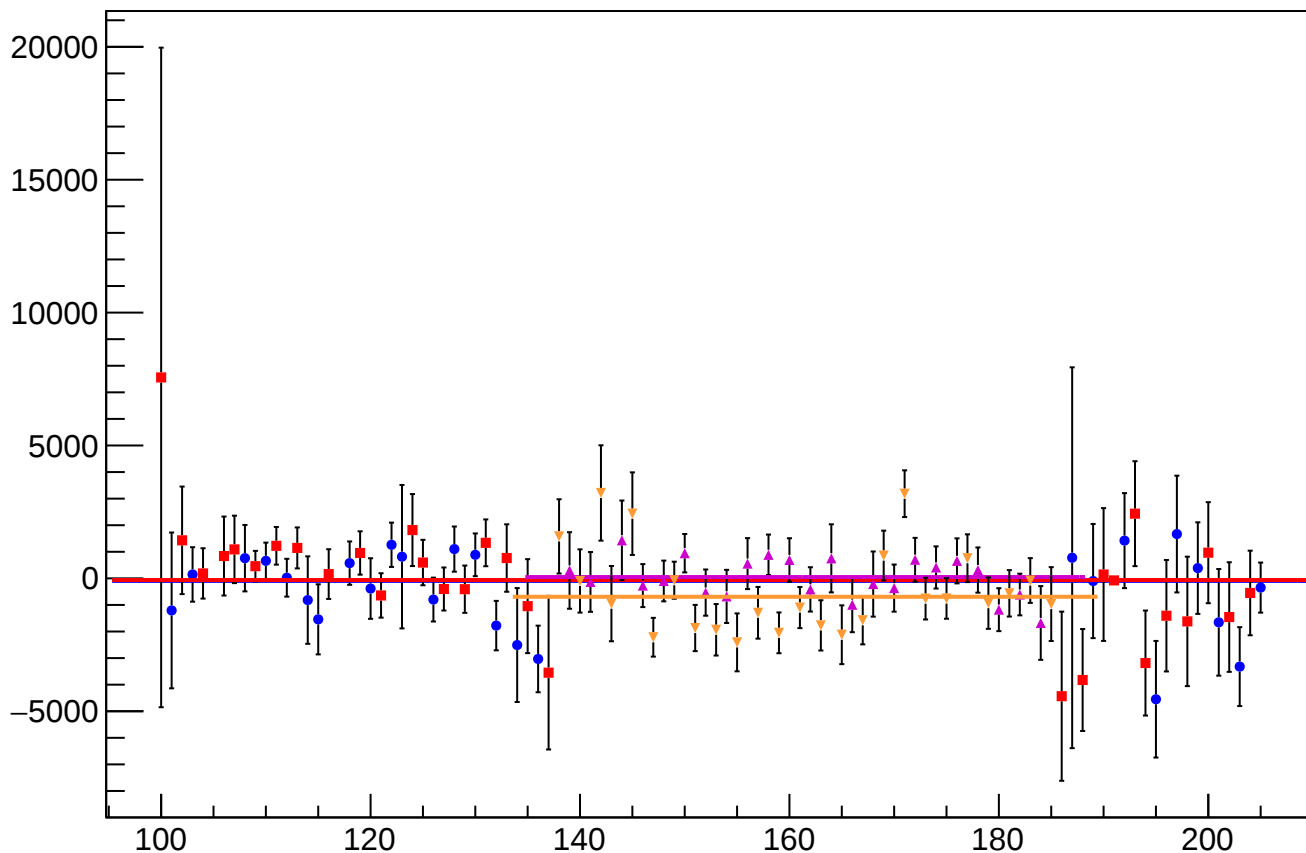
Right: 2661.767+/-0.373 χ^2/NDF : 2771792.5/55

In: 2787.157+/-0.360 χ^2/NDF : 671335.0/48

Out: 2670.296+/-0.337 χ^2/NDF : 2104932.3/54

All: 2725.019+/-0.246 χ^2/NDF : 2832430.0/100

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -94.492 ± 222.815 $\chi^2/\text{NDF}: 32.0/25$

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

Right Out: -63.234 ± 37.876 $\chi^2/\text{NDF}: 30.1/29$

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

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

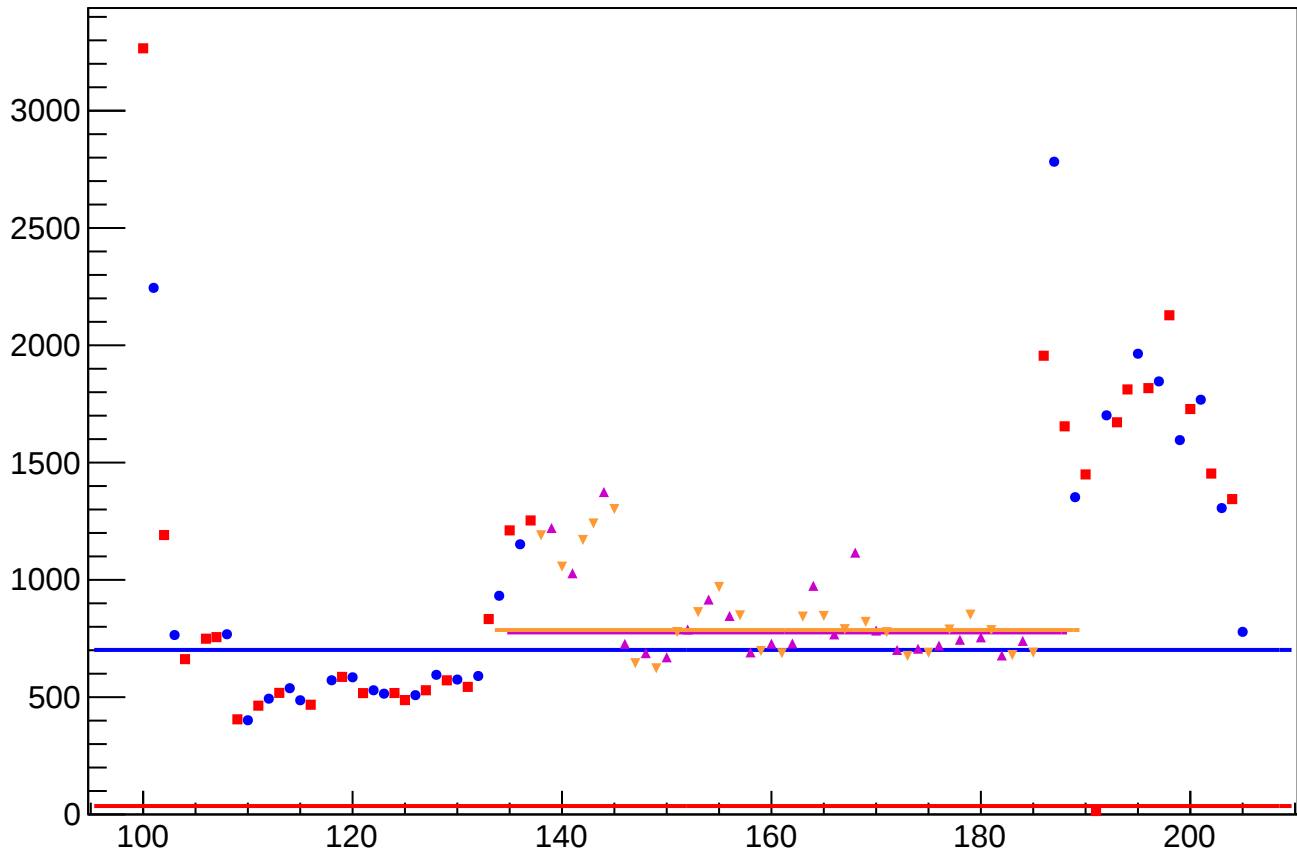
Right: -64.112 ± 37.340 $\chi^2/\text{NDF}: 62.1/55$

In: -10.971 ± 144.216 $\chi^2/\text{NDF}: 45.9/48$

Out: -87.969 ± 37.124 $\chi^2/\text{NDF}: 96.9/54$

All: -83.184 ± 35.952 $\chi^2/\text{NDF}: 143.0/103$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 701.371+/-0.158 χ^2/NDF : 5492605.2/25

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

Right Out: 35.938+/-0.027 χ^2/NDF : 25268617.2/29

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

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

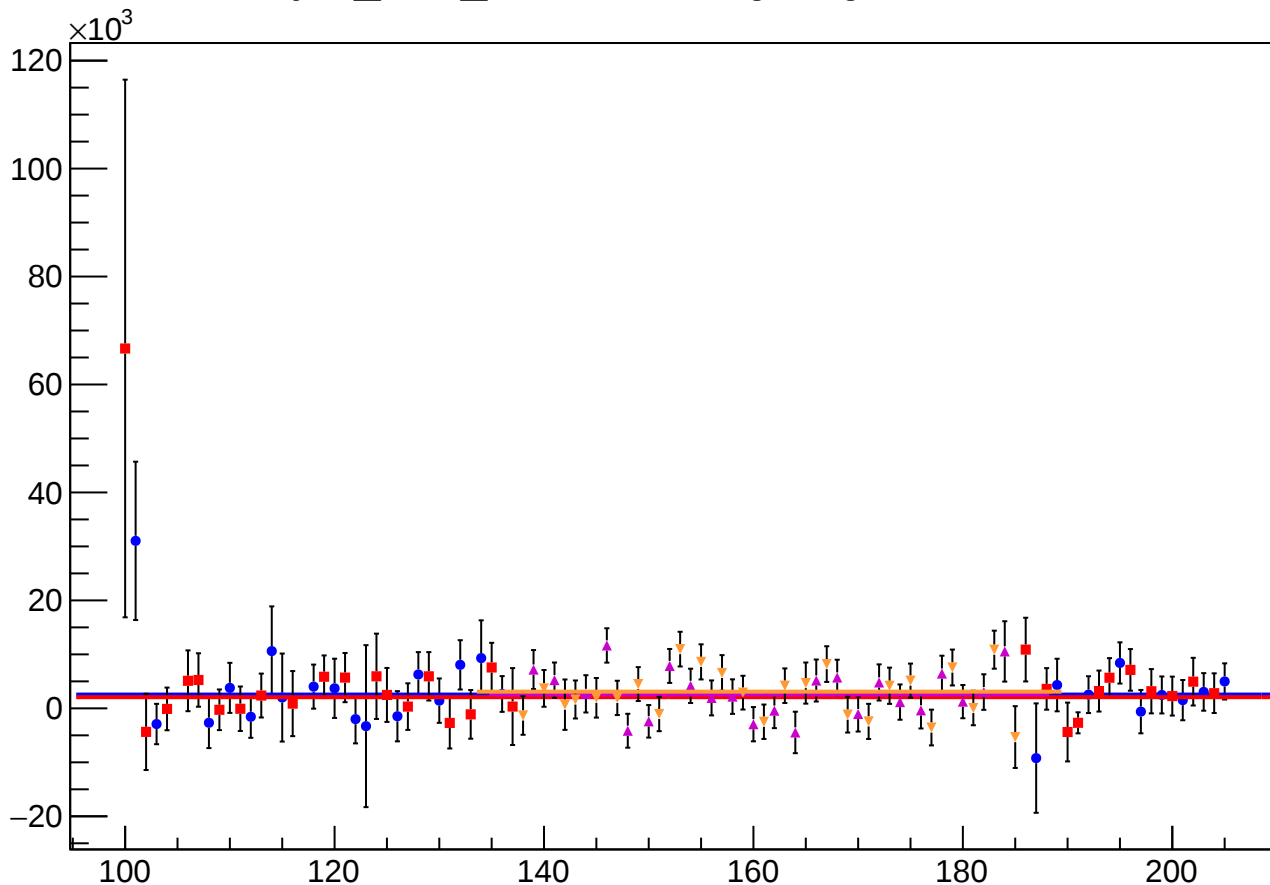
Right: 54.627+/-0.026 χ^2/NDF : 48098425.0/55

In: 744.695+/-0.102 χ^2/NDF :6679500.4/48

Out: 65.413+/-0.026 χ^2/NDF :57346833.5/54

All: 107.629+/-0.025 χ^2/NDF : 105640245.6/100

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2550.645 $\pm$ 866.751 χ^2 /NDF: 19.7/25

Left Out: 3094.826 $\pm$ 678.510 χ^2 /NDF:38.7/24

Right Out: 2067.512 $\pm$ 772.823 χ^2 /NDF: 23.0/29

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

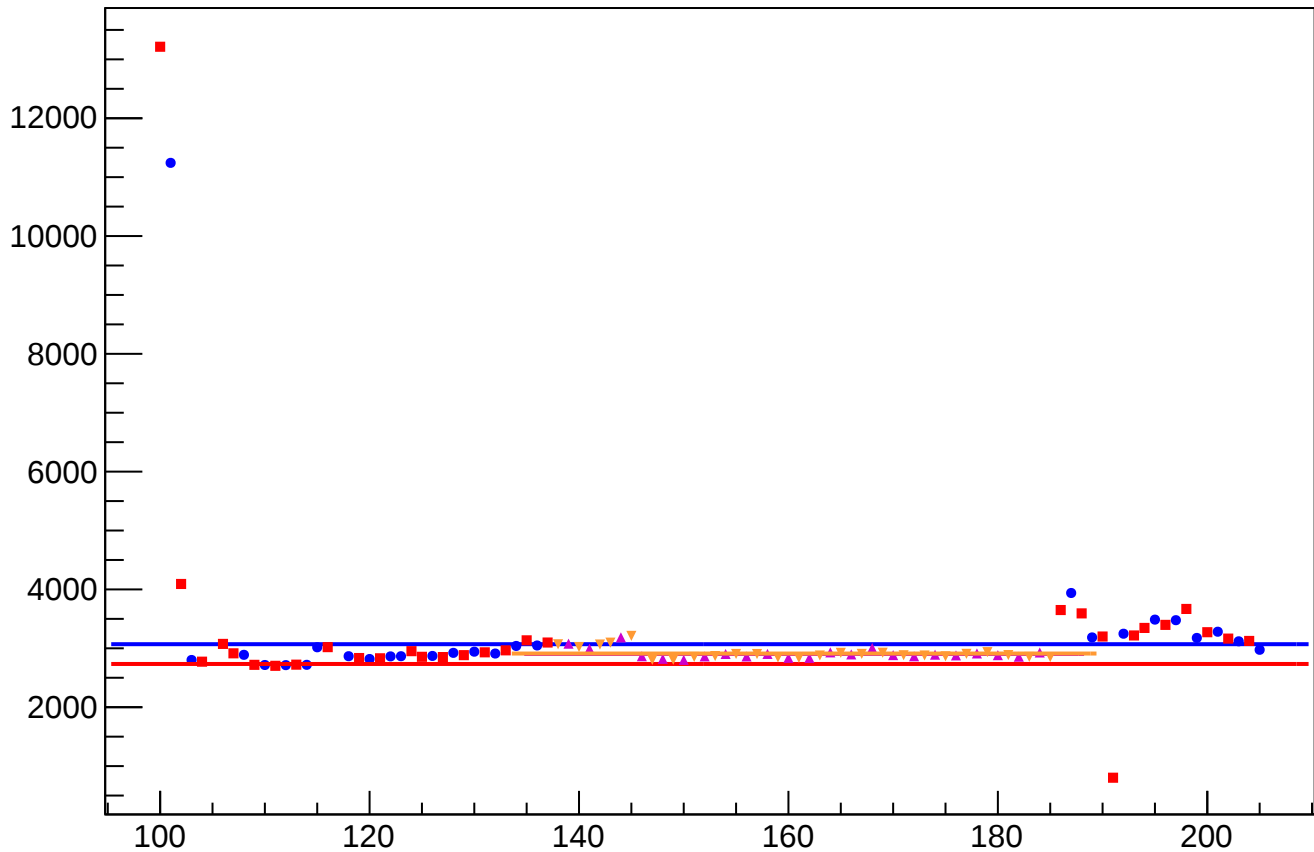
Right: 2281.491 $\pm$ 576.829 χ^2 /NDF: 42.9/55

In: 2564.351 $\pm$ 542.592 χ^2 /NDF:55.4/48

Out: 2647.646 $\pm$ 509.881 χ^2 /NDF:62.7/54

All: 2608.585 $\pm$ 371.567 χ^2 /NDF: 118.1/103

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3069.979+/-0.613 χ^2/NDF : 766745.8/25

Left Out: 2911.226+/-0.480 χ^2/NDF : 36644.3/24

Right Out: 2734.143+/-0.546 χ^2/NDF : 2680858.6/29

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

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

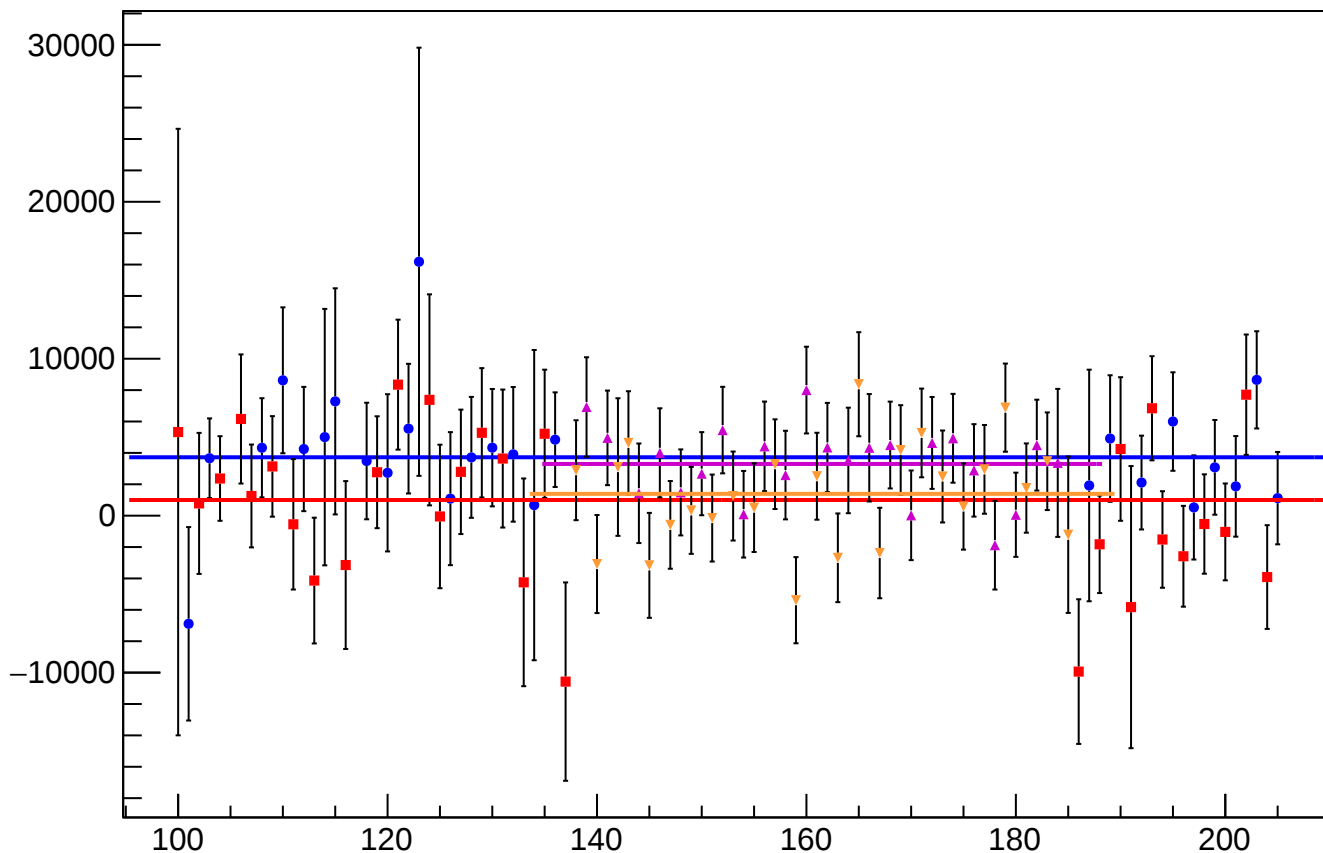
Right: 2882.884+/-0.408 χ^2/NDF : 3614879.8/55

In: 2968.686+/-0.384 χ^2/NDF : 840501.7/48

Out: 2834.143+/-0.361 χ^2/NDF : 2776802.4/54

All: 2897.237+/-0.263 χ^2/NDF : 3682608.4/100

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3720.888 $\pm$ 748.957 χ^2 /NDF: 11.7/25

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

Right Out: 998.610 $\pm$ 715.667 χ^2 /NDF: 34.3/29

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

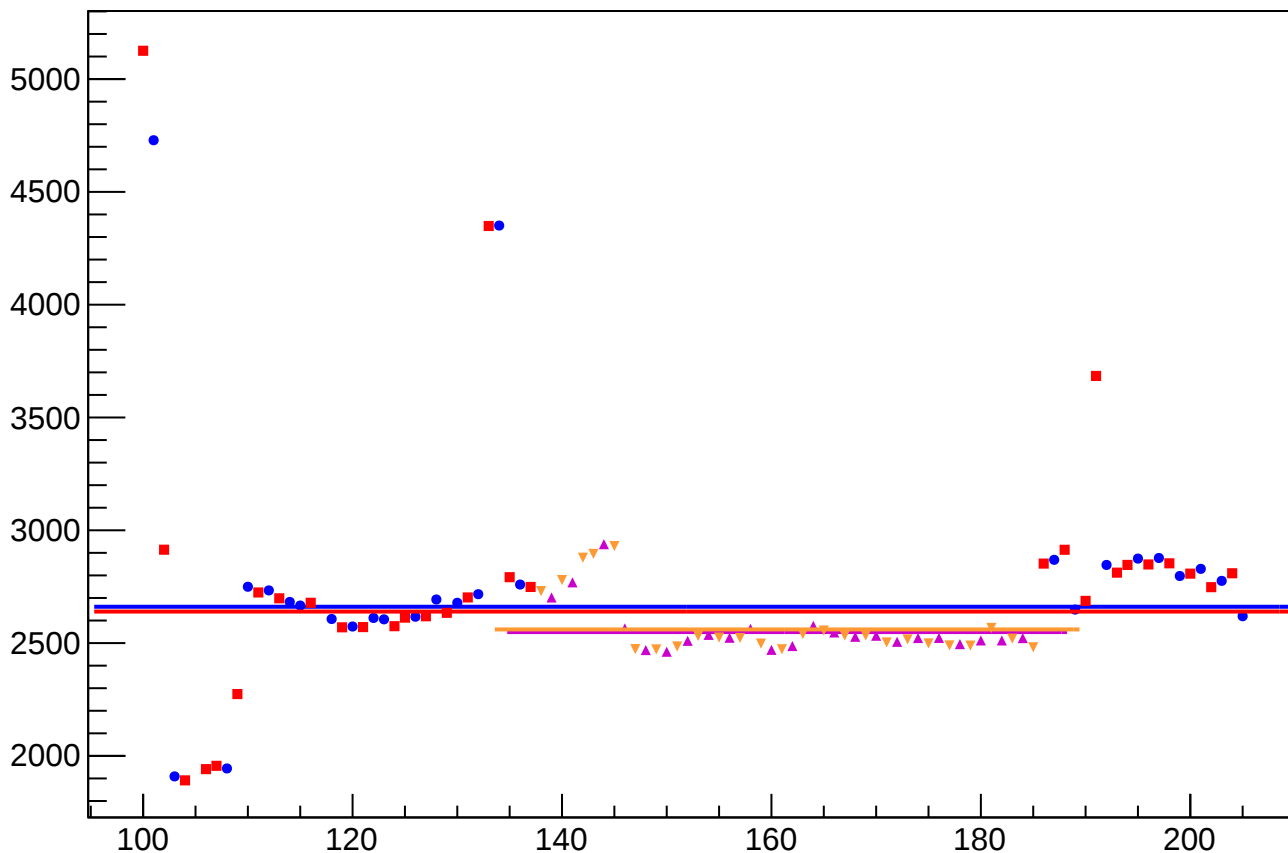
Right: 2297.905 $\pm$ 517.421 χ^2 /NDF: 52.9/55

In: 3465.064 $\pm$ 472.970 χ^2 /NDF:26.8/48

Out: 1229.716 $\pm$ 458.216 χ^2 /NDF:63.6/54

All: 2311.982 $\pm$ 329.100 χ^2 /NDF: 101.9/103

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2661.079+/-0.530 χ^2/NDF : 607610.2/25

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

Right Out: 2639.765+/-0.506 χ^2/NDF : 597496.3/29

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

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

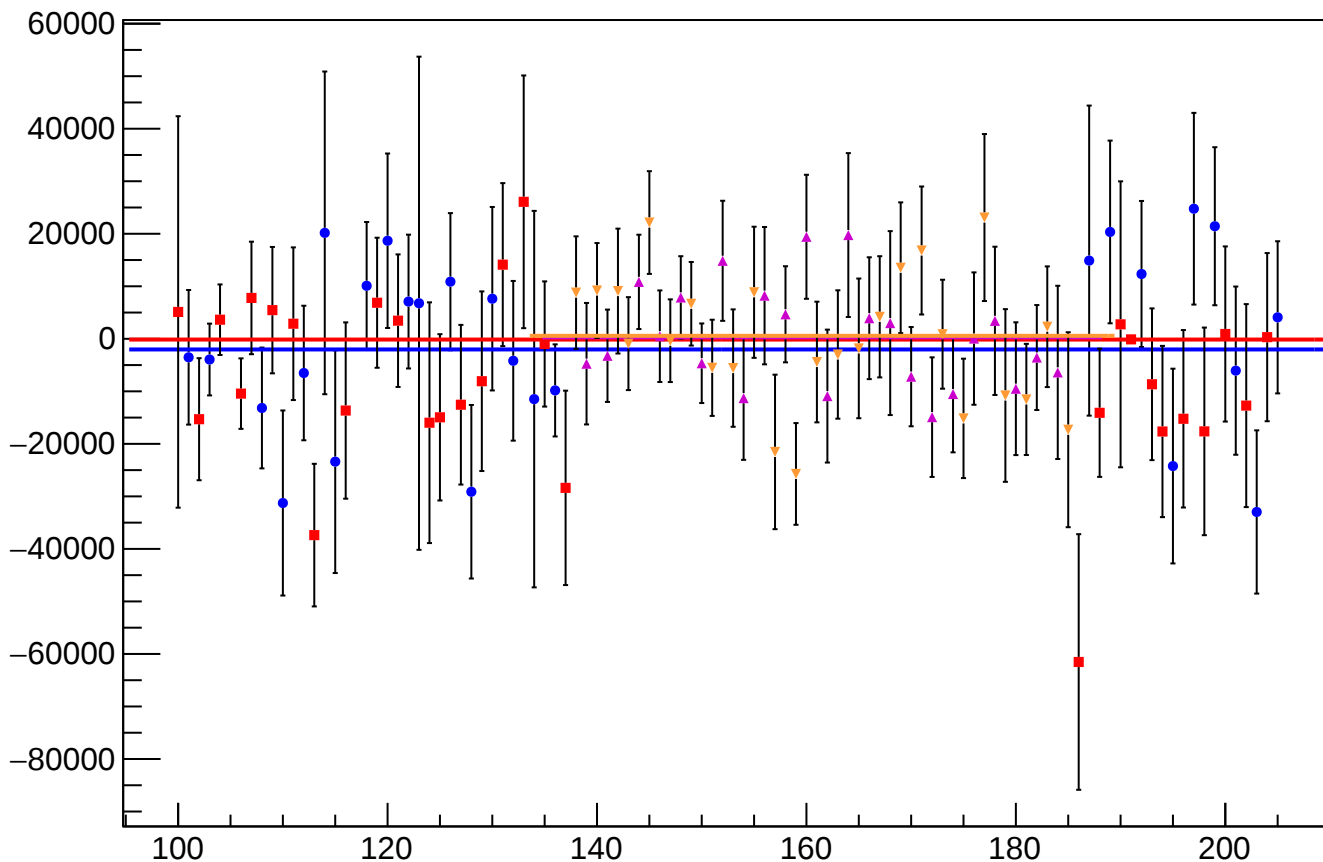
Right: 2649.938+/-0.366 χ^2/NDF : 1205953.2/55

In: 2593.619+/-0.334 χ^2/NDF : 689865.9/48

Out: 2593.013+/-0.324 χ^2/NDF : 698733.1/54

All: 2593.306+/-0.233 χ^2/NDF : 1388600.8/100

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -2026.132 $\pm$ 2791.104 χ^2 /NDF: 26.7/25

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

Right Out: -141.005 $\pm$ 194.966 χ^2 /NDF: 31.6/29

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

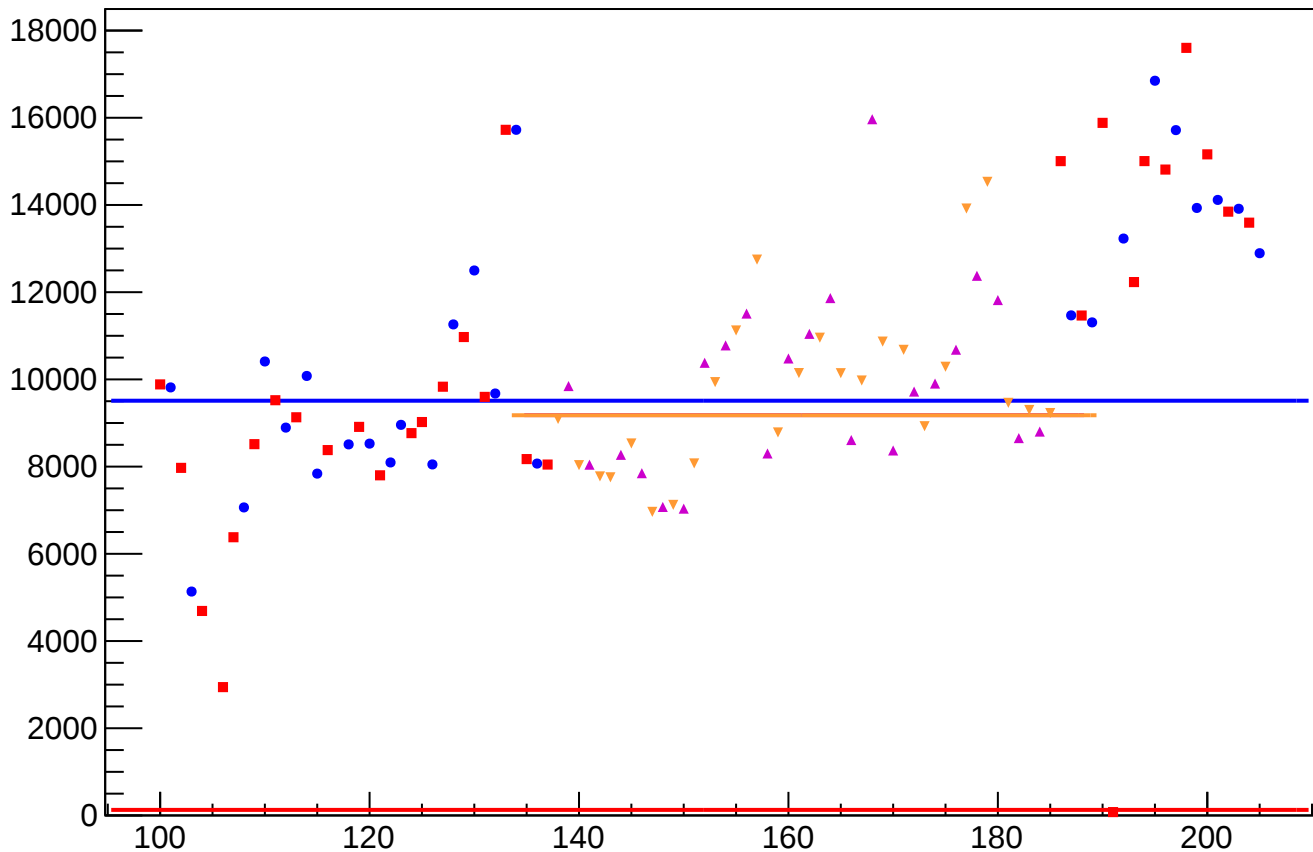
Right: -150.159 $\pm$ 194.492 χ^2 /NDF: 58.7/55

In: -627.807 $\pm$ 1748.315 χ^2 /NDF:42.8/48

Out: -135.366 $\pm$ 194.194 χ^2 /NDF:59.9/54

All: -141.368 $\pm$ 193.007 χ^2 /NDF: 102.8/103

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9511.194+/-1.974

χ^2/NDF : 2526214.4/25

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right: 173.188+/-0.138

χ^2/NDF : 51815181.9/55

Right Out: 127.624+/-0.138

χ^2/NDF : 26793225.8/29

In: 9310.710+/-1.236

χ^2/NDF : 3779666.3/48

Out: 199.151+/-0.137

χ^2/NDF : 62028462.8/54

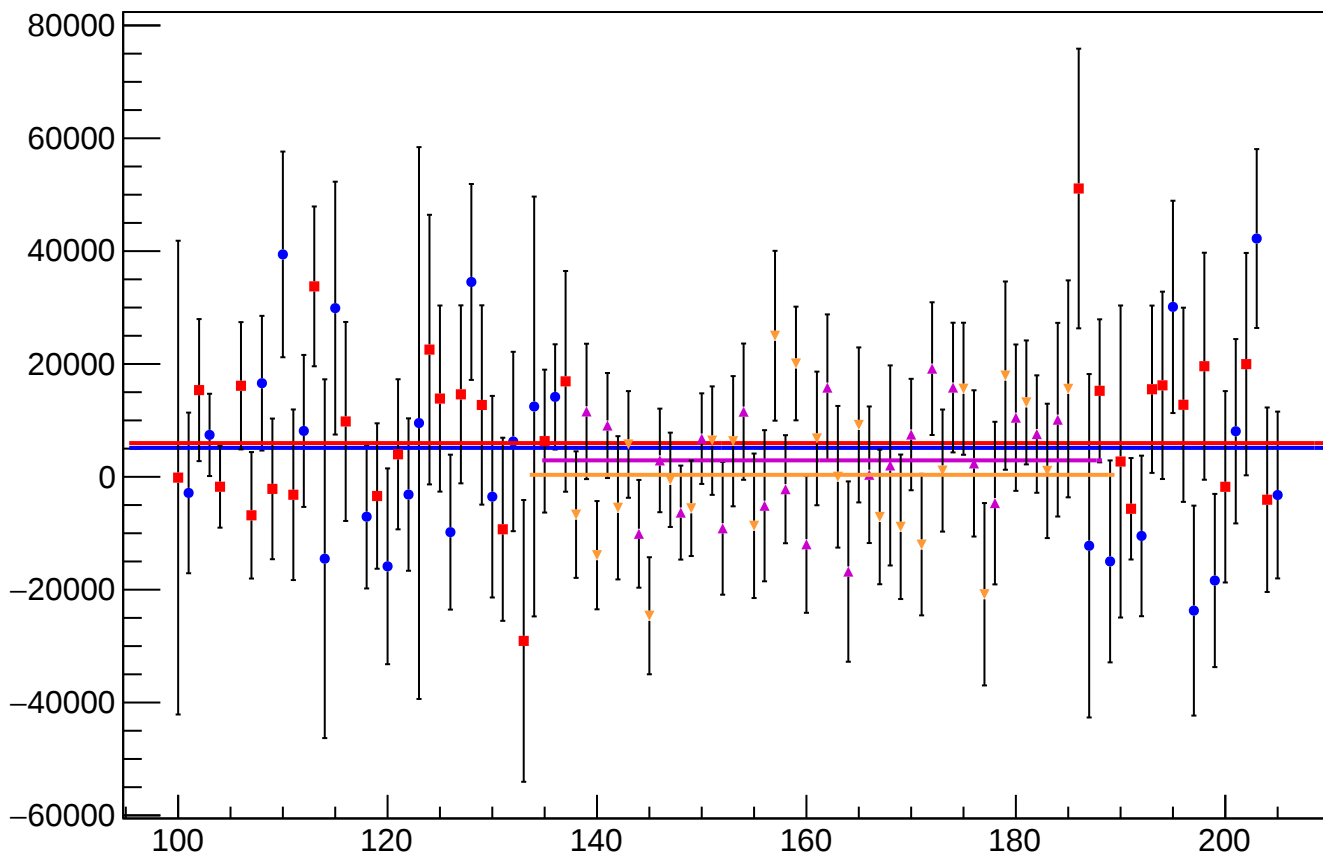
Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

All: 310.196+/-0.136

χ^2/NDF : 119468100.8/5

asym_atr2_mean vs Slug, Sign Corrected



Right In: 5128.007 $\pm$ 2923.280 χ^2 /NDF: 29.7/25

Left Out: 355.717 $\pm$ 2281.682 χ^2 /NDF:26.2/24

Right Out: 5981.069 $\pm$ 2629.220 χ^2 /NDF: 21.4/29

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

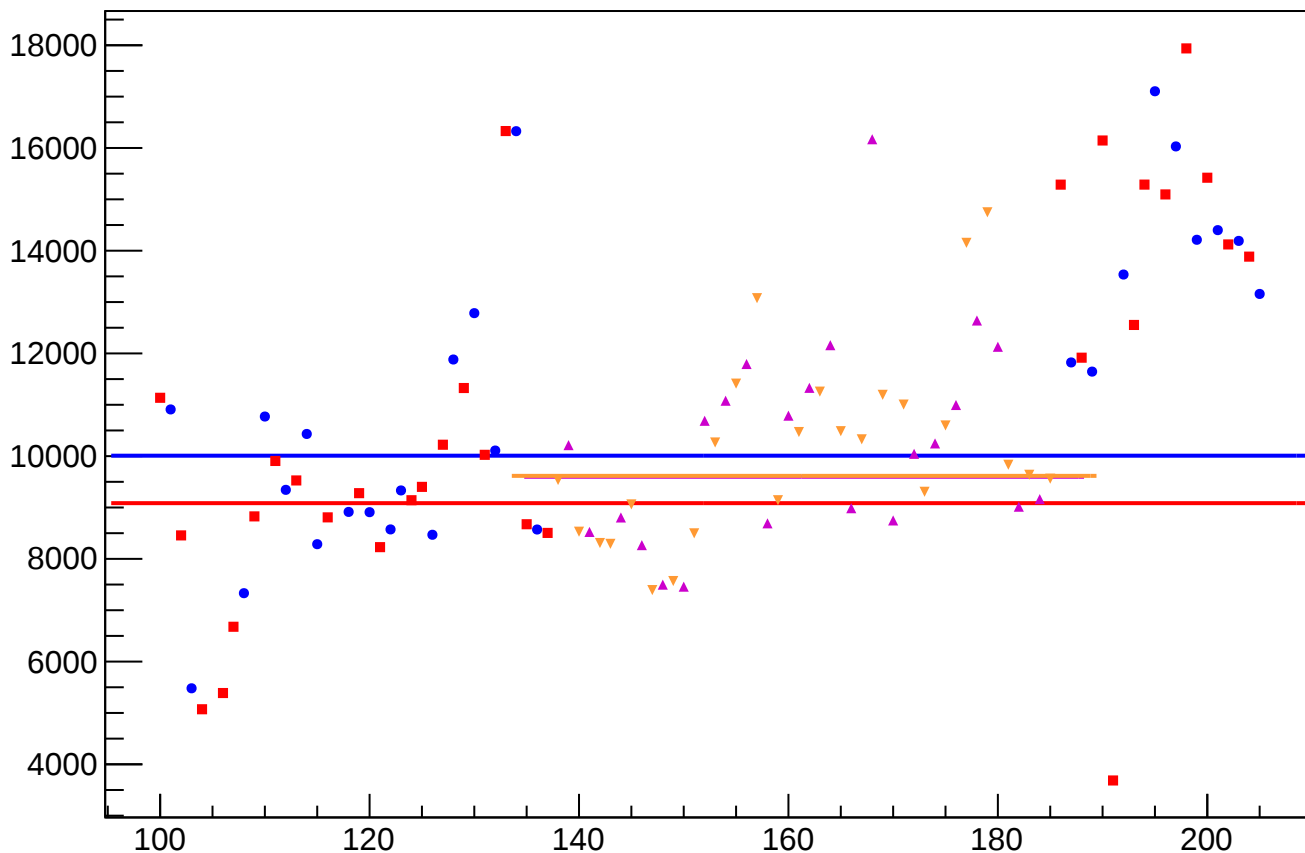
Right: 5599.590 $\pm$ 1954.860 χ^2 /NDF: 51.2/55

In: 3780.586 $\pm$ 1826.081 χ^2 /NDF:45.0/48

Out: 2772.279 $\pm$ 1723.261 χ^2 /NDF:50.3/54

All: 3247.247 $\pm$ 1253.303 χ^2 /NDF: 95.4/103

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10008.874 $\pm$ 2.067

χ^2/NDF : 2313899.5/25

Left: 9607.606 $\pm$ 1.155

χ^2/NDF : 2093896.0/47

Left Out: 9616.245 $\pm$ 1.613

χ^2/NDF : 1011665.6/24

Right: 9497.954 $\pm$ 1.382

χ^2/NDF : 6273173.4/55

Right Out: 9084.682 $\pm$ 1.859

χ^2/NDF : 3848763.3/29

In: 9758.651 $\pm$ 1.291

χ^2/NDF : 3420101.6/48

Out: 9387.885 $\pm$ 1.219

χ^2/NDF : 4907062.1/54

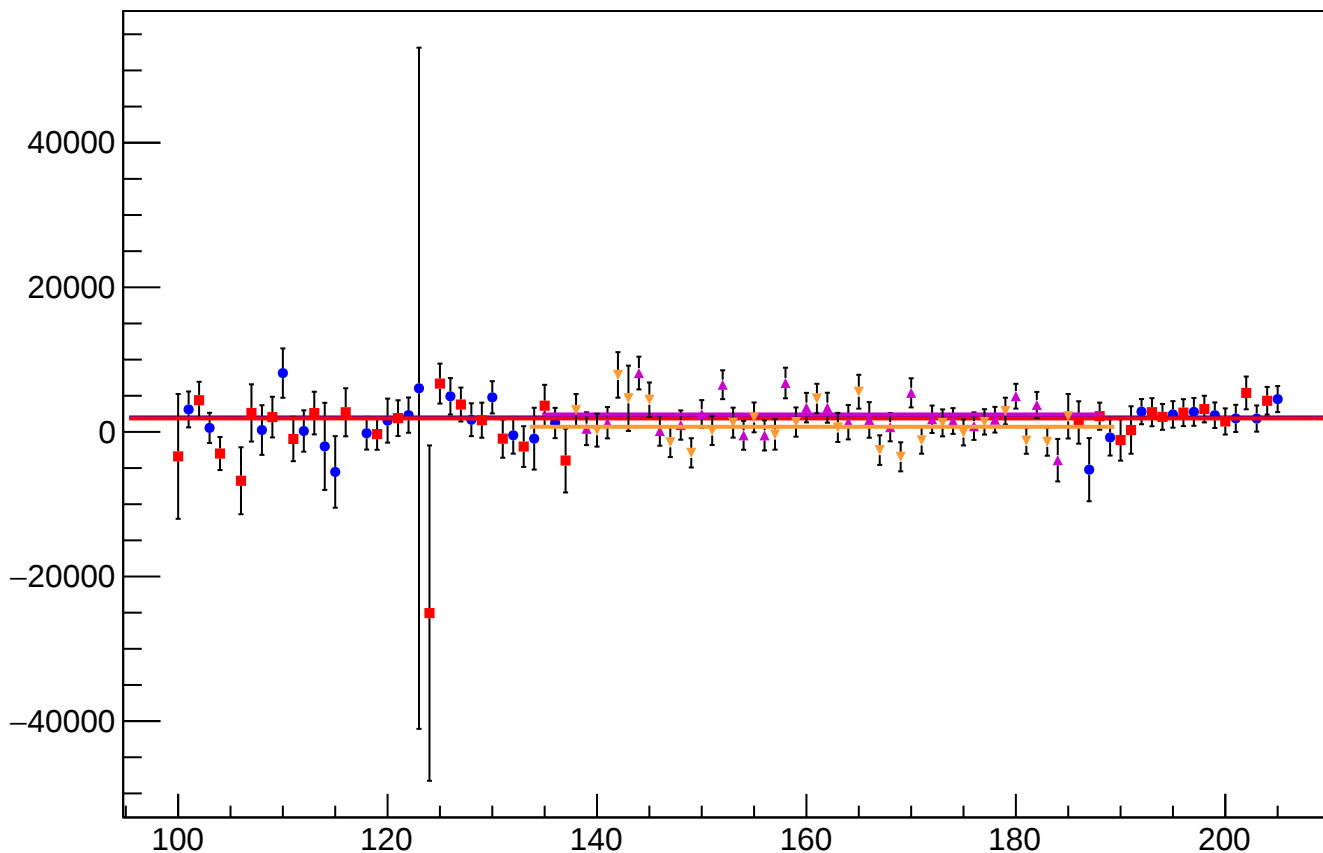
Left In: 9598.531 $\pm$ 1.654

χ^2/NDF : 1082171.6/22

All: 9562.534 $\pm$ 0.886

χ^2/NDF : 8370775.6/10

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1996.976+/-469.418 χ^2/NDF : 19.2/25

Left Out: 709.722+/-417.377 χ^2/NDF : 34.8/24

Right Out: 1869.262+/-458.523 χ^2/NDF : 27.9/29

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

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

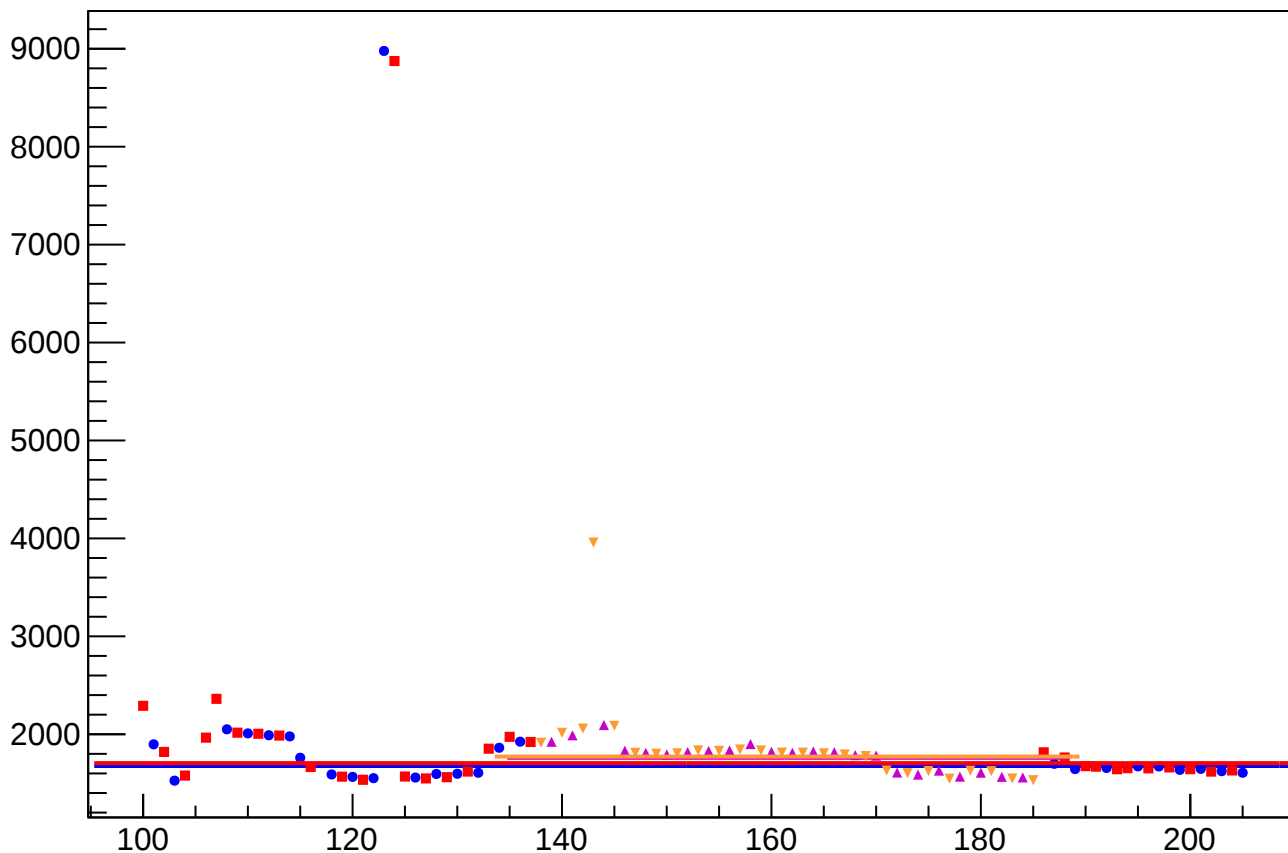
Right: 1931.620+/-328.009 χ^2/NDF : 47.2/55

In: 2227.303+/-314.432 χ^2/NDF : 53.6/48

Out: 1235.142+/-308.654 χ^2/NDF : 66.2/54

All: 1722.022+/-220.266 χ^2/NDF : 124.9/103

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1676.017 $\pm$ 0.332 χ^2 /NDF: 207134.5/25

Left Out: 1772.046 $\pm$ 0.295 χ^2 /NDF: 702472.4/24

Right Out: 1705.316 $\pm$ 0.324 χ^2 /NDF: 424534.2/29

Left In: 1759.600 $\pm$ 0.299 χ^2 /NDF: 214891.5/22

Left: 1765.913 $\pm$ 0.210 χ^2 /NDF: 918240.2/47

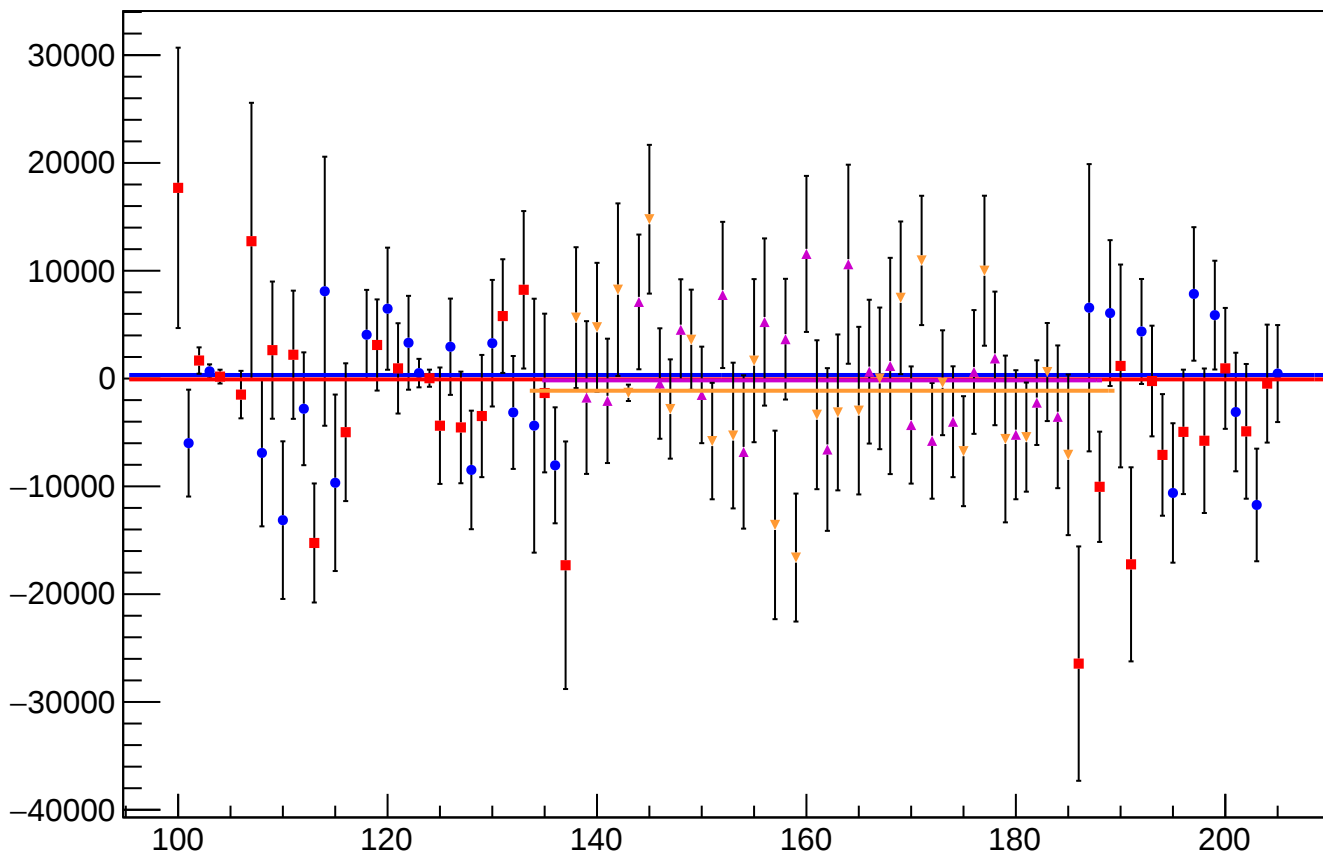
Right: 1691.041 $\pm$ 0.232 χ^2 /NDF: 635663.9/55

In: 1722.098 $\pm$ 0.222 χ^2 /NDF: 456984.2/48

Out: 1741.739 $\pm$ 0.218 χ^2 /NDF: 1150224.7/54

All: 1732.110 $\pm$ 0.156 χ^2 /NDF: 1611187.1/100

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 331.375+/-519.945 χ^2/NDF : 30.2/25

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

Right Out: -76.034+/-422.580 χ^2/NDF : 38.1/29

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

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

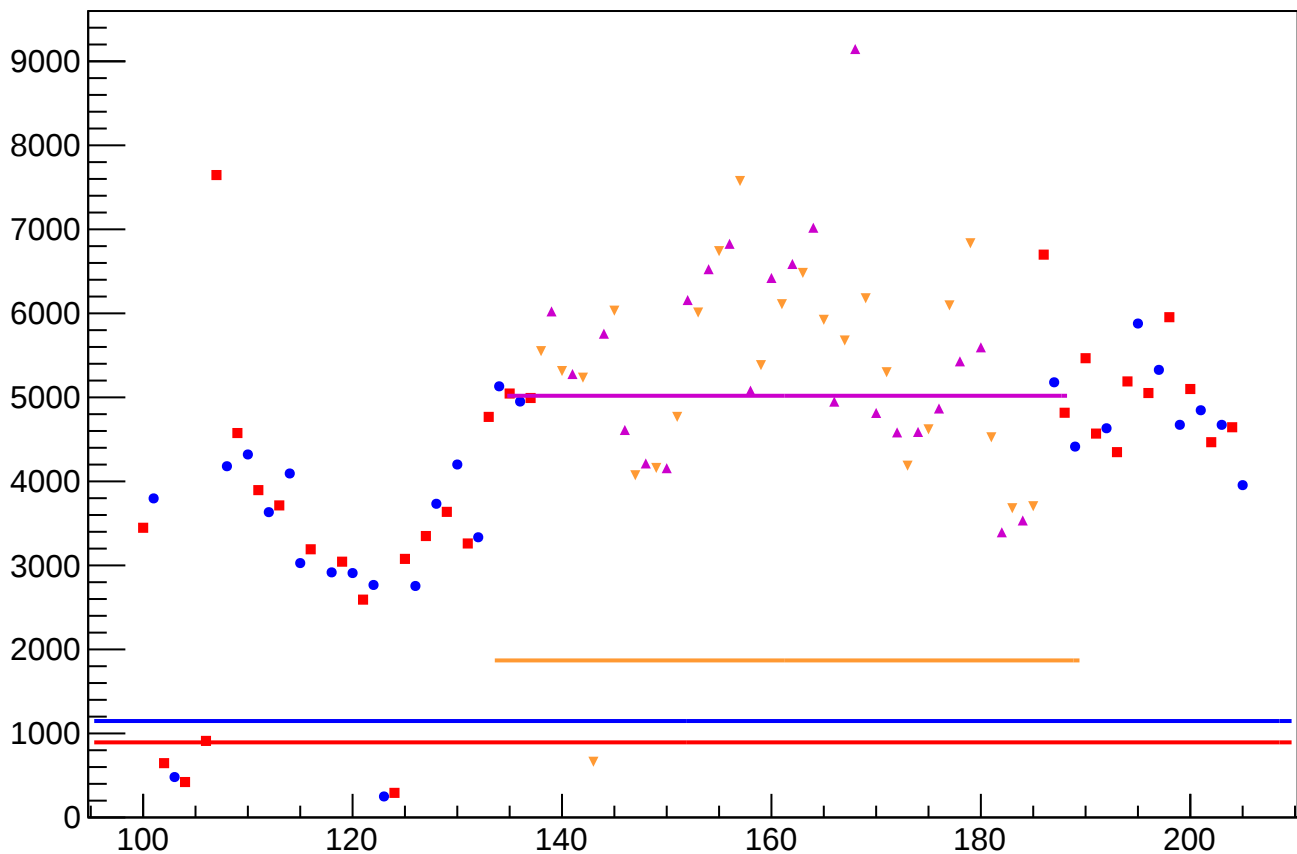
Right: 86.028+/-327.932 χ^2/NDF : 68.7/55

In: 255.892+/-479.056 χ^2/NDF :44.5/48

Out: -390.731+/-353.899 χ^2/NDF :71.5/54

All: -162.434+/-284.650 χ^2/NDF : 117.1/103

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1147.760 $\pm$ 0.368

χ^2 /NDF: 15928695.9/25

Left: 2550.597 $\pm$ 0.405

χ^2 /NDF: 31661059.7/47

Left Out: 1868.983 $\pm$ 0.458

χ^2 /NDF: 19852416.6/24

Right: 994.772 $\pm$ 0.232

χ^2 /NDF: 34587843.1/55

Right Out: 893.717 $\pm$ 0.299

χ^2 /NDF: 18371620.8/29

In: 1732.716 $\pm$ 0.339

χ^2 /NDF: 34251079.9/48

Left In: 5019.114 $\pm$ 0.871

χ^2 /NDF: 1569031.9/22

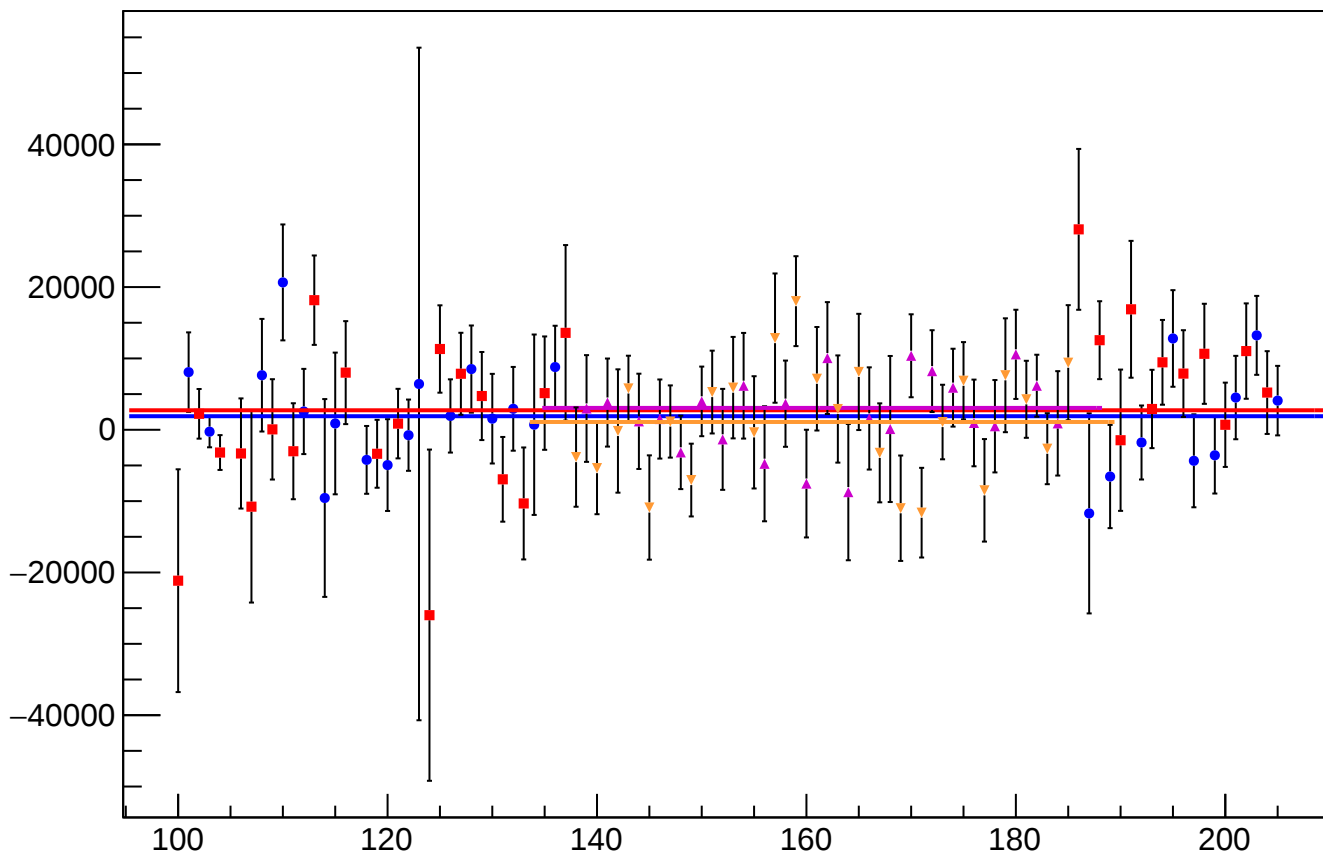
Out: 1184.969 $\pm$ 0.250

χ^2 /NDF: 41405340.4/54

All: 1378.357 $\pm$ 0.201

χ^2 /NDF: 77347959.0/1

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1900.865+/-1100.639 χ^2/NDF : 26.5/25

Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24

Right Out: 2733.389+/-1081.760 χ^2/NDF : 45.6/29

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

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

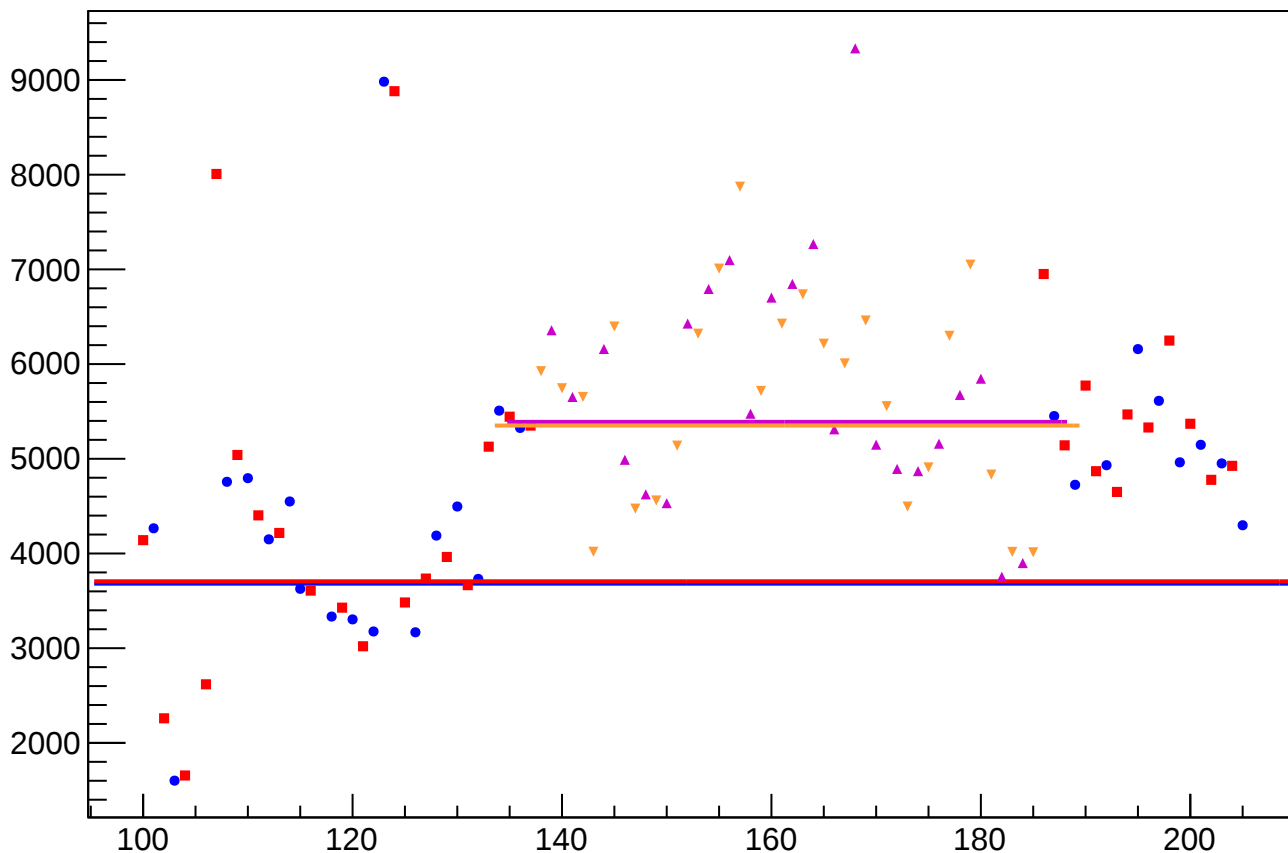
Right: 2324.328+/-771.508 χ^2/NDF : 72.3/55

In: 2378.985+/-844.853 χ^2/NDF : 39.5/48

Out: 2046.167+/-824.359 χ^2/NDF : 78.5/54

All: 2208.490+/-590.022 χ^2/NDF : 118.1/103

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3681.661 $\pm$ 0.778 χ^2 /NDF: 3268695.6/25

Left Out: 5350.804 $\pm$ 0.900 χ^2 /NDF:1241497.9/24

Right Out: 3706.514 $\pm$ 0.757 χ^2 /NDF: 3861980.6/29

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

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

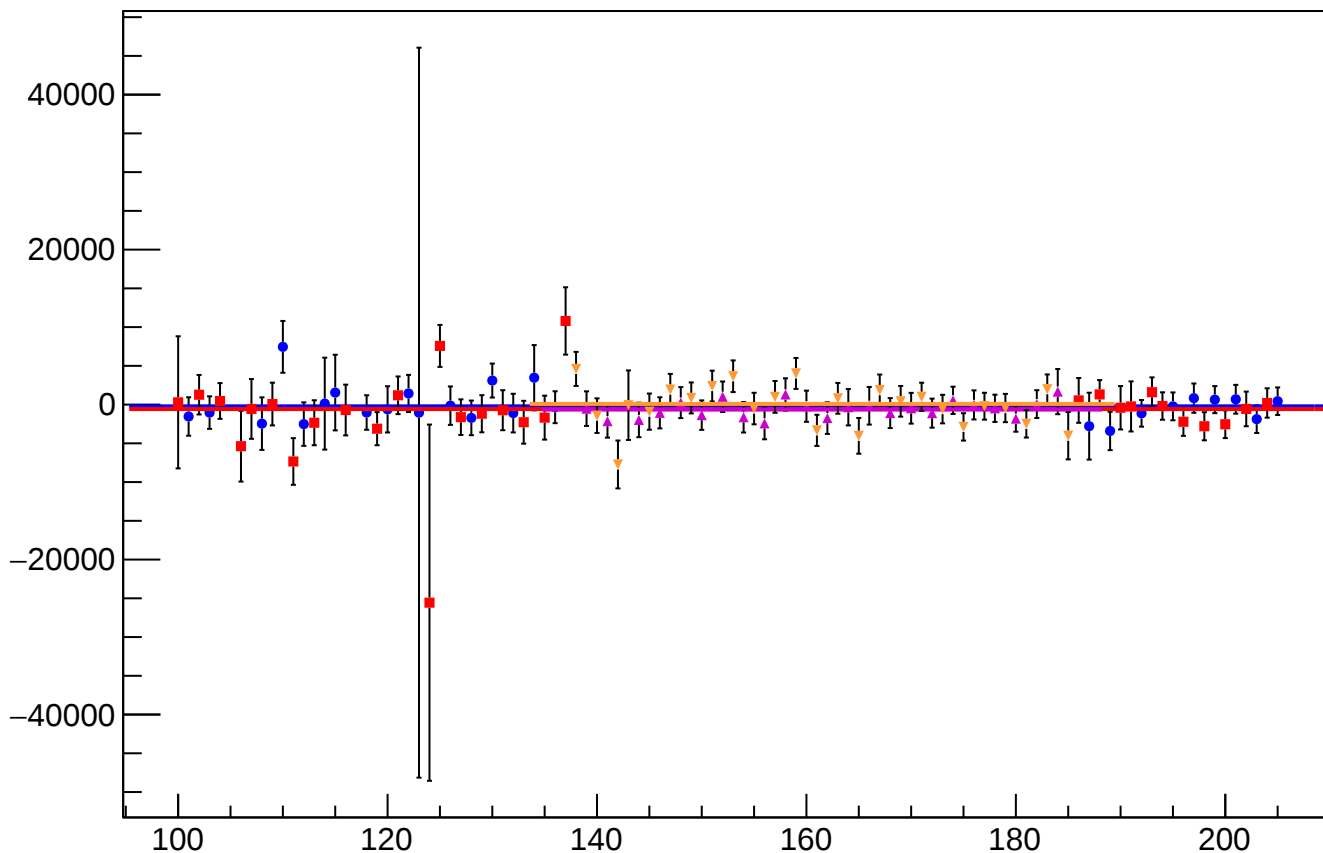
Right: 3694.431 $\pm$ 0.543 χ^2 /NDF: 7131200.3/55

In: 4383.308 $\pm$ 0.597 χ^2 /NDF:6557195.7/48

Out: 4387.643 $\pm$ 0.579 χ^2 /NDF:7057700.0/54

All: 4385.542 $\pm$ 0.416 χ^2 /NDF: 13614922.8/101

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -225.287 ± 462.772 χ^2/NDF : 15.3/25

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -575.726 ± 451.880 χ^2/NDF : 33.4/29

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

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

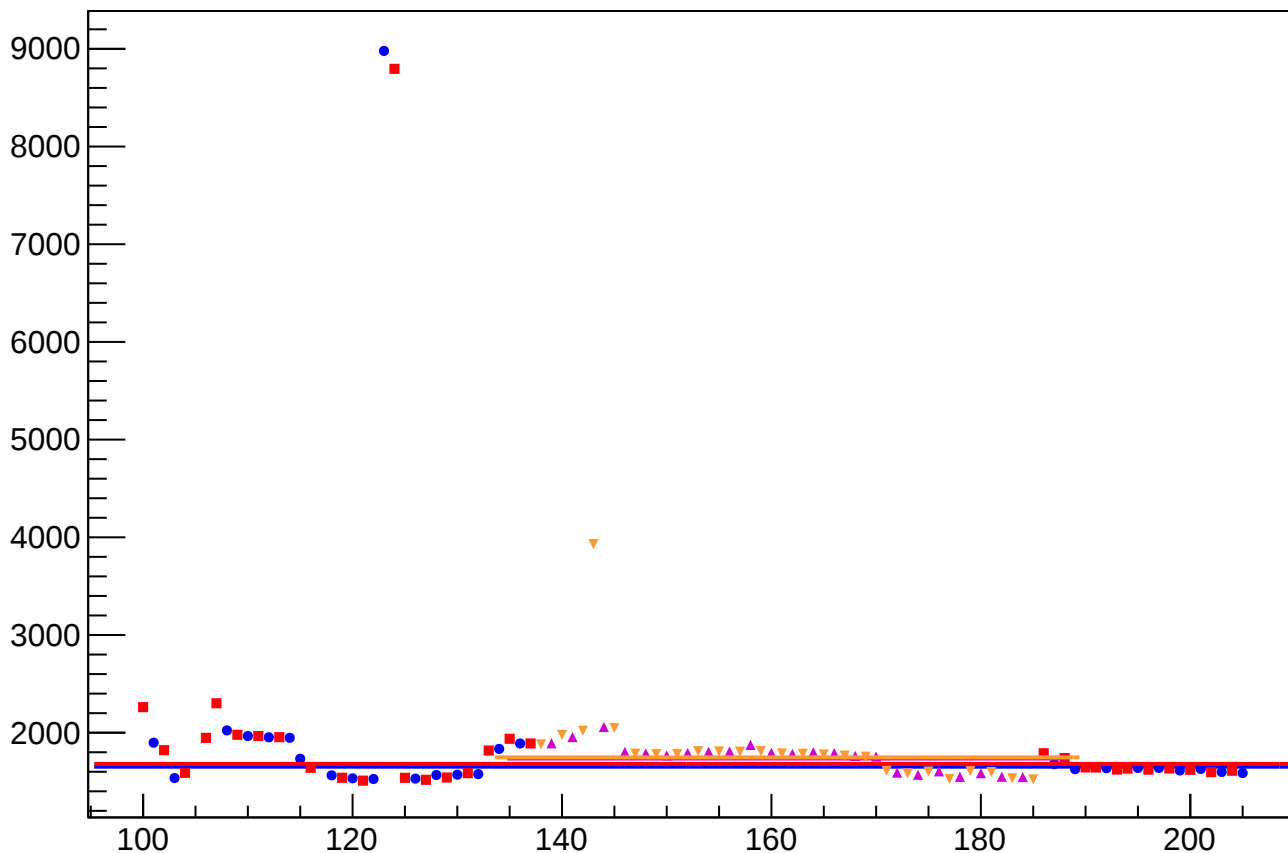
Right: -404.679 ± 323.309 χ^2/NDF : 48.9/55

In: -453.974 ± 310.050 χ^2/NDF : 21.9/48

Out: -213.889 ± 304.263 χ^2/NDF : 70.6/54

All: -331.670 ± 217.163 χ^2/NDF : 92.8/103

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1652.339+/-0.327 χ^2/NDF : 205337.1/25

Left Out: 1747.320+/-0.291 χ^2/NDF : 698192.3/24

Right Out: 1680.874+/-0.319 χ^2/NDF : 420910.9/29

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

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

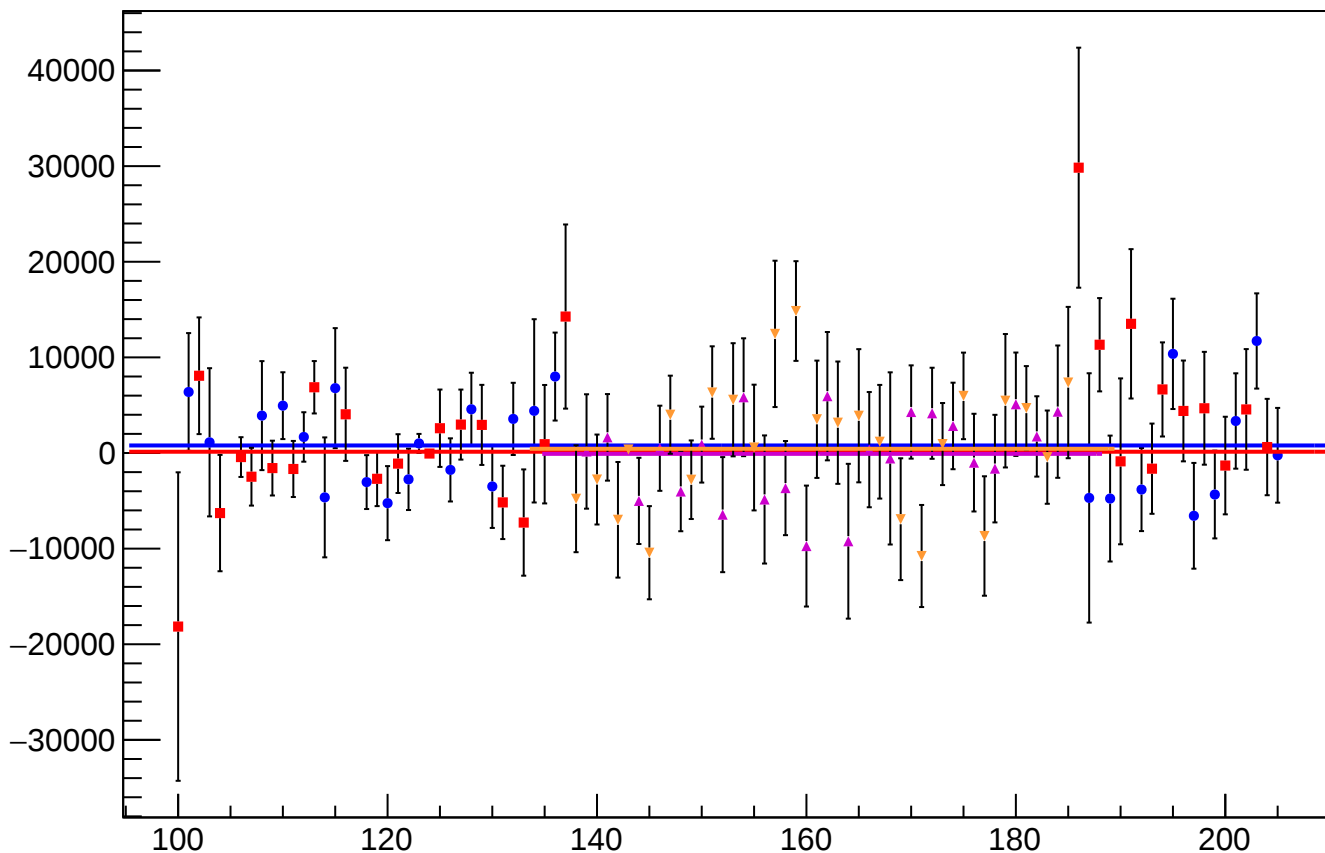
Right: 1666.975+/-0.228 χ^2/NDF : 630148.6/55

In: 1698.193+/-0.219 χ^2/NDF : 447733.3/48

Out: 1717.129+/-0.215 χ^2/NDF : 1142793.9/54

All: 1707.848+/-0.153 χ^2/NDF : 1594330.9/100

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 788.736+/-657.246 χ^2/NDF : 28.5/25

Left Out: 442.187+/-440.335 χ^2/NDF :33.9/24

Right Out: 132.862+/-349.970 χ^2/NDF : 38.5/29

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

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

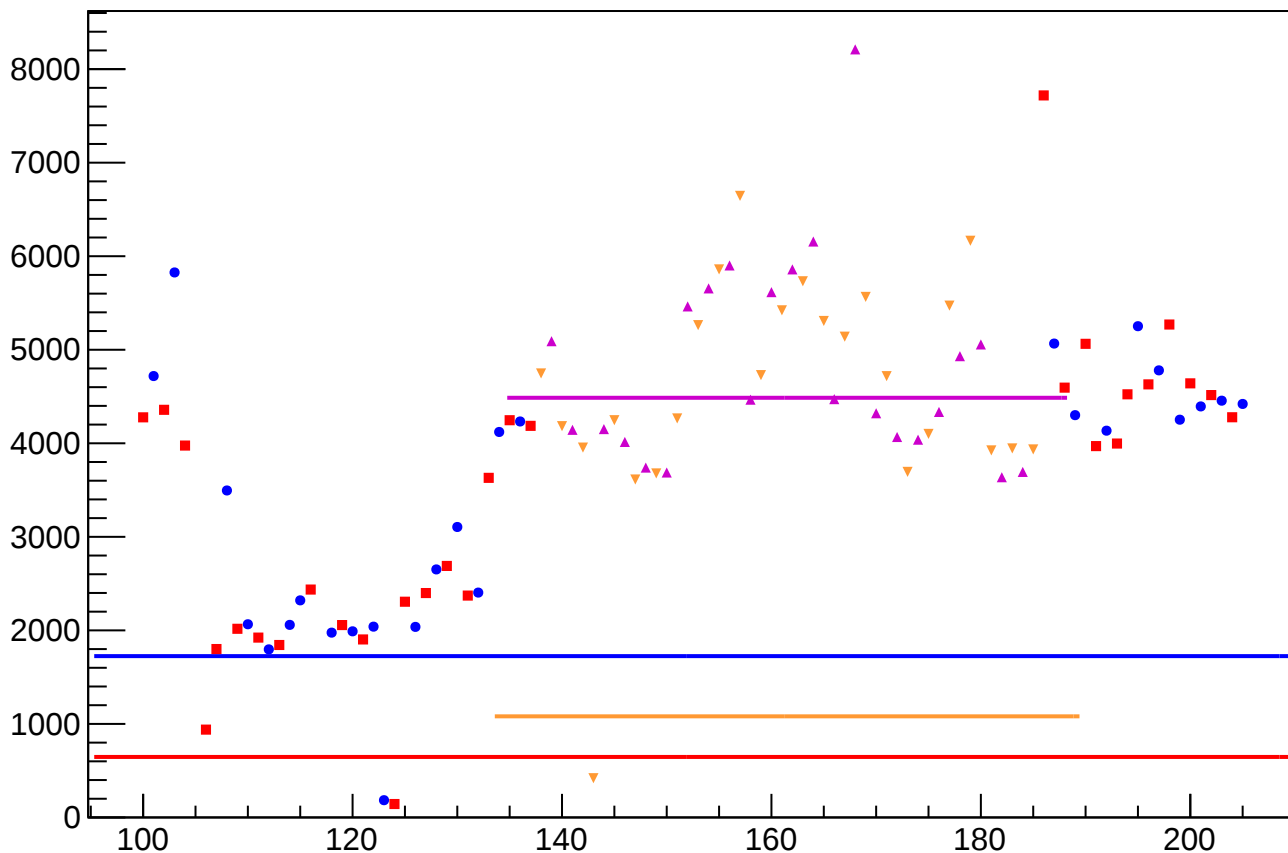
Right: 277.745+/-308.907 χ^2/NDF : 67.8/55

In: 556.346+/-563.506 χ^2/NDF :42.4/48

Out: 252.612+/-273.977 χ^2/NDF :72.7/54

All: 310.684+/-246.397 χ^2/NDF : 115.4/103

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1724.734 $\pm$ 0.465

χ^2/NDF : 12033295.9/25

Left Out: 1081.004 $\pm$ 0.311

χ^2/NDF : 24456244.2/24

Right Out: 646.911 $\pm$ 0.247

χ^2/NDF : 21011278.5/29

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: 885.004 $\pm$ 0.218

χ^2/NDF : 37235032.8/55

In: 2456.369 $\pm$ 0.398

χ^2/NDF : 22570396.7/48

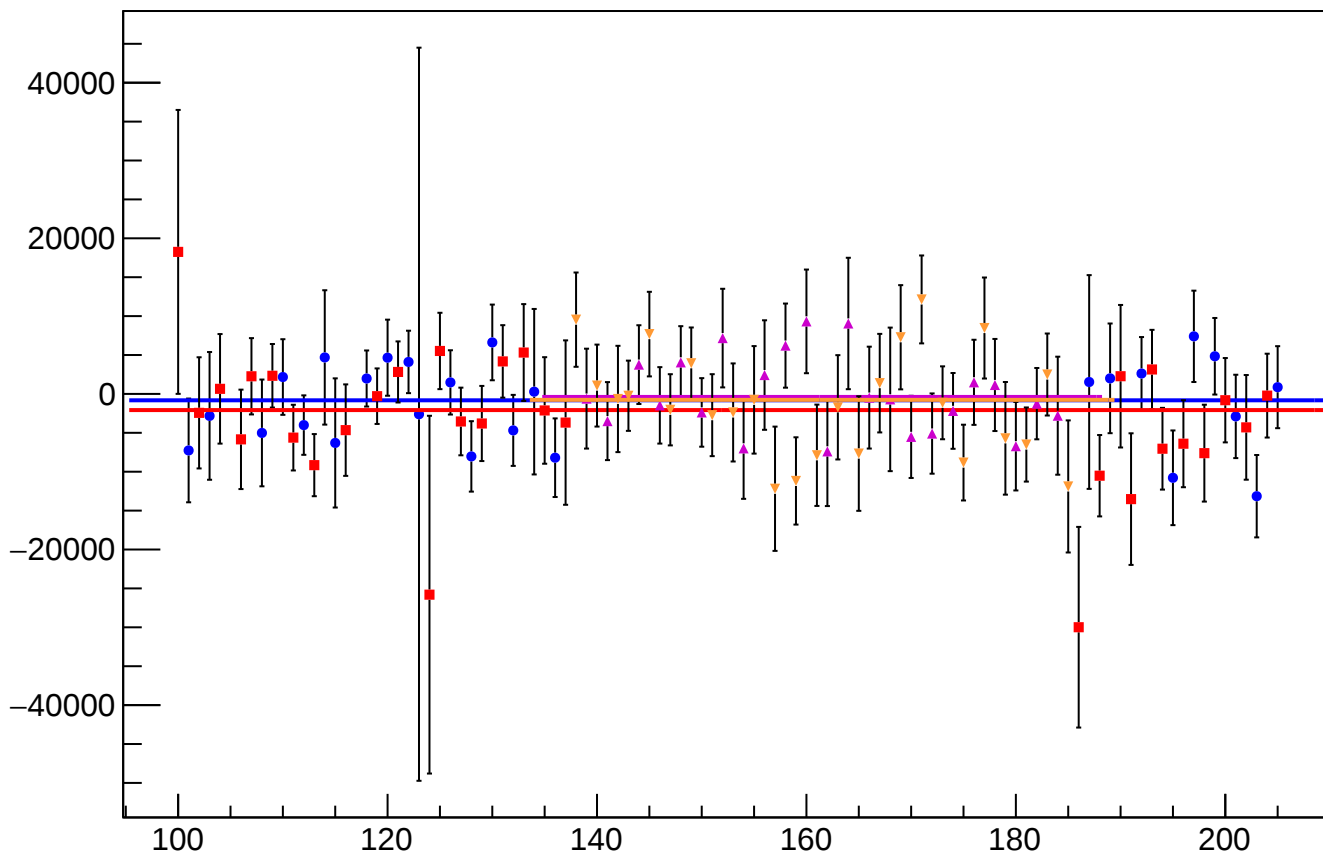
Out: 814.963 $\pm$ 0.194

χ^2/NDF : 46658751.3/54

All: 1128.790 $\pm$ 0.174

χ^2/NDF : 82954062.2/100

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -821.755+/-1054.586 χ^2/NDF : 27.1/25

Left Out: -766.008+/-1147.372 χ^2/NDF :29.9/24

Right Out: -2078.385+/-1003.592 χ^2/NDF : 29.4/29

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

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

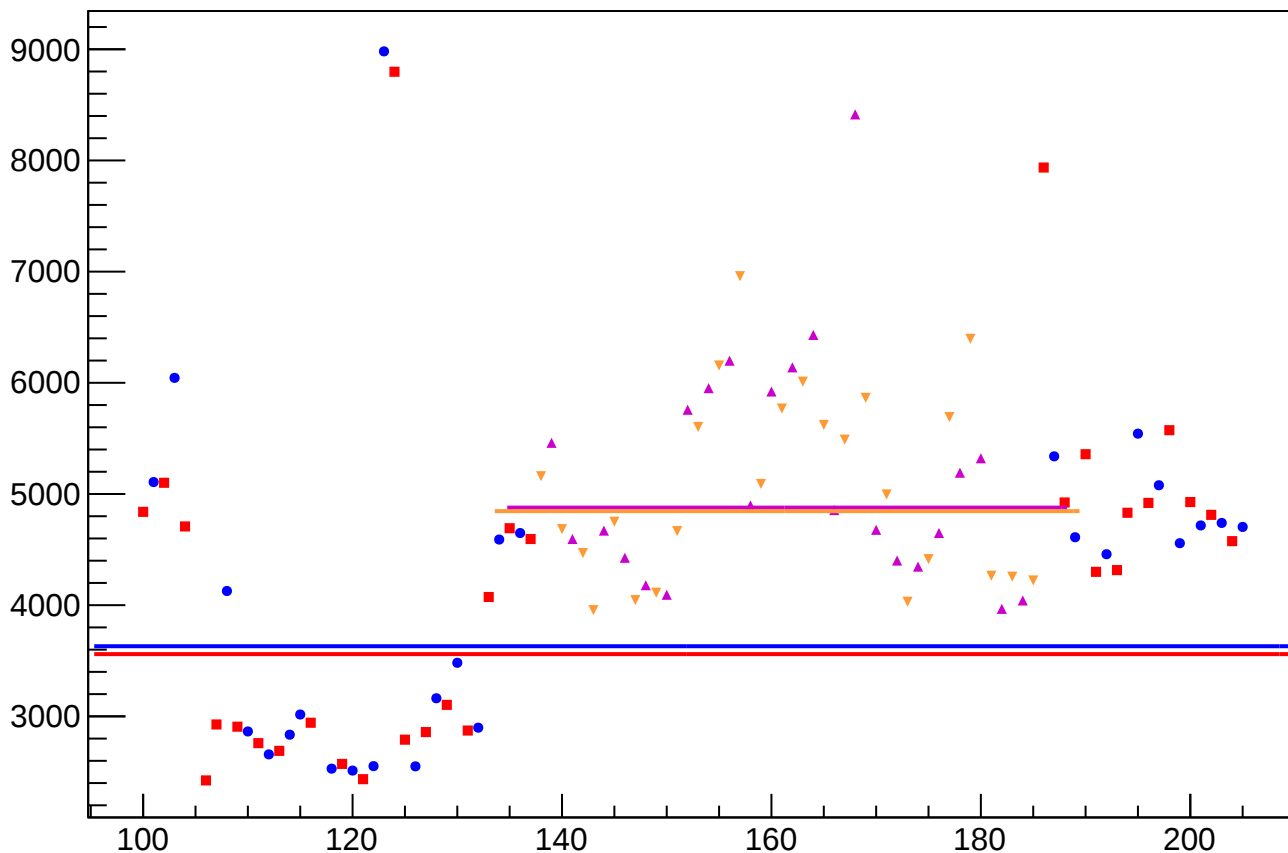
Right: -1481.185+/-727.006 χ^2/NDF : 57.2/55

In: -630.701+/-788.175 χ^2/NDF :41.3/48

Out: -1509.531+/-755.397 χ^2/NDF :60.1/54

All: -1088.770+/-545.366 χ^2/NDF : 102.1/103

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3630.685+/-0.746 χ^2/NDF : 2034432.9/25

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3559.705+/-0.703 χ^2/NDF : 2425224.9/29

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

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

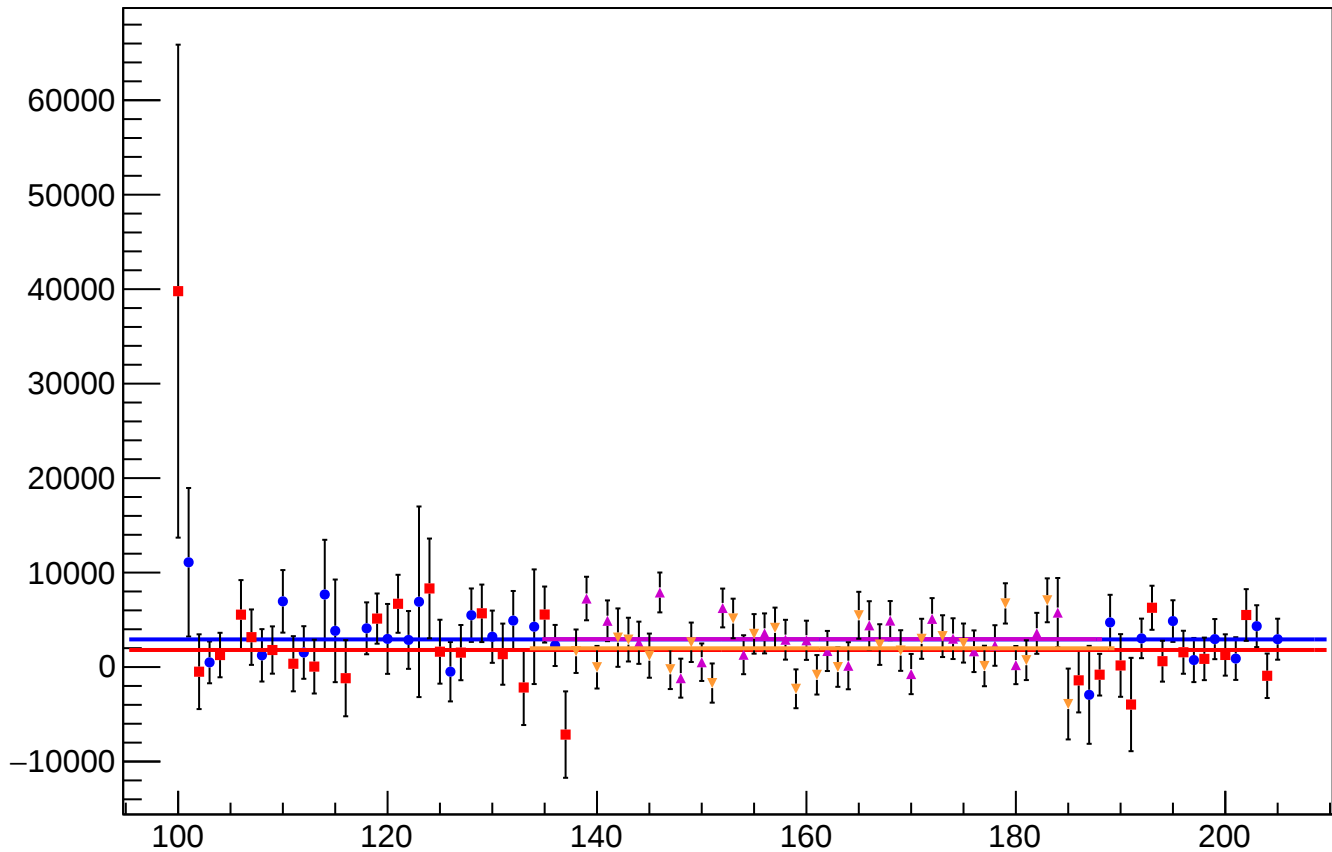
Right: 3593.122+/-0.512 χ^2/NDF : 4464452.6/55

In: 4181.039+/-0.557 χ^2/NDF : 4227004.0/48

Out: 4111.525+/-0.531 χ^2/NDF : 4769009.2/54

All: 4144.630+/-0.385 χ^2/NDF : 9004161.4/10

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2926.851+/-553.883 χ^2 /NDF: 12.5/25

Left Out: 1985.469+/-443.190 χ^2 /NDF:32.4/24

Right Out: 1807.348+/-530.728 χ^2 /NDF: 30.0/29

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

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

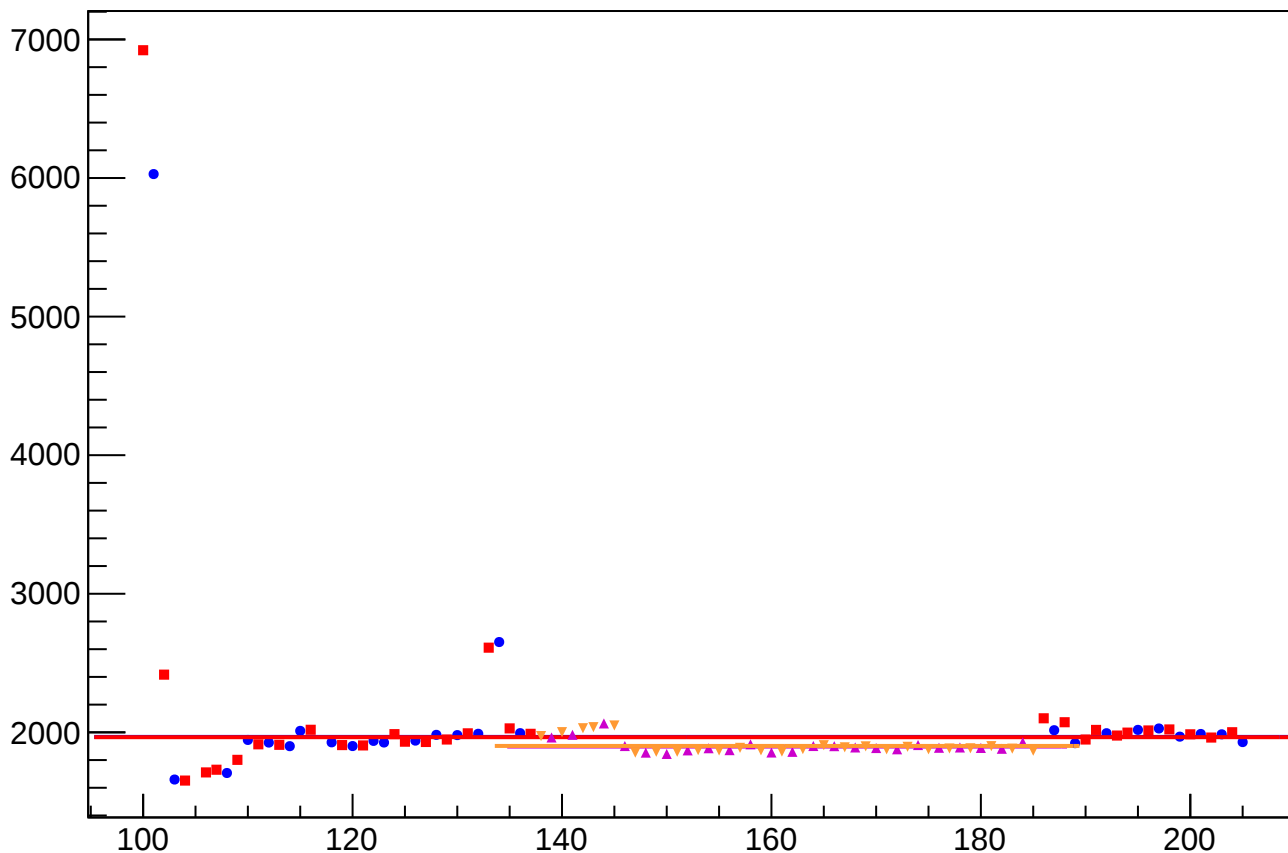
Right: 2343.210+/-383.206 χ^2 /NDF: 44.6/55

In: 2944.210+/-351.375 χ^2 /NDF:40.9/48

Out: 1912.290+/-340.179 χ^2 /NDF:62.5/54

All: 2411.547+/-244.405 χ^2 /NDF: 107.9/103

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1967.033+/-0.392 χ^2/NDF : 622434.2/25

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1965.008+/-0.375 χ^2/NDF : 235235.0/29

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

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

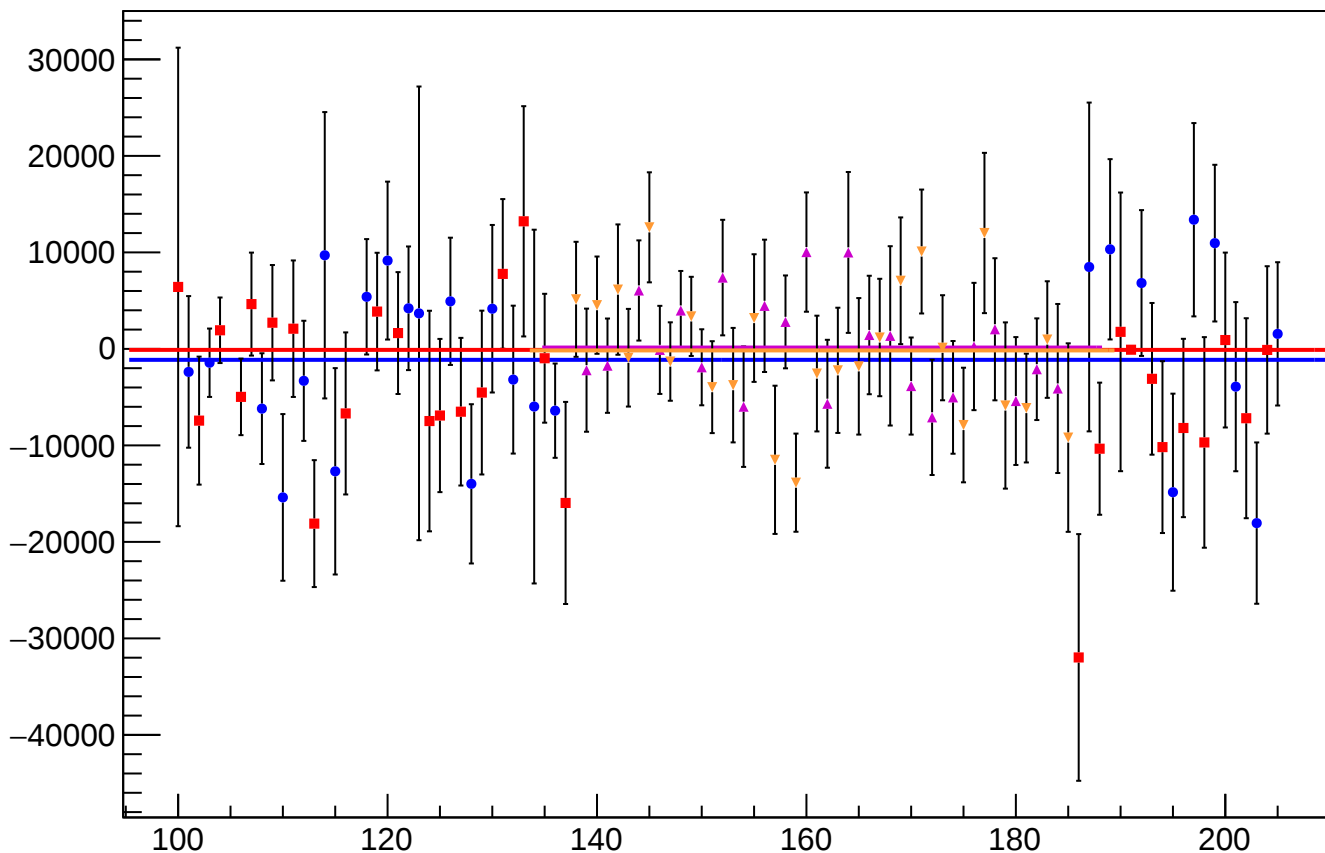
Right: 1965.976+/-0.271 χ^2/NDF : 857683.1/55

In: 1925.457+/-0.248 χ^2/NDF : 662472.5/48

Out: 1927.854+/-0.240 χ^2/NDF : 282374.7/54

All: 1926.695+/-0.173 χ^2/NDF : 944895.3/103

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -1134.376 ± 1453.488 $\chi^2/\text{NDF}: 27.2/25$

Left Out: -157.539 ± 1165.844 $\chi^2/\text{NDF}: 29.5/24$

Right Out: -102.884 ± 109.570 $\chi^2/\text{NDF}: 31.5/29$

Left In: 139.000 ± 1190.889 $\chi^2/\text{NDF}: 14.7/22$

Left: -12.420 ± 833.090 $\chi^2/\text{NDF}: 44.2/47$

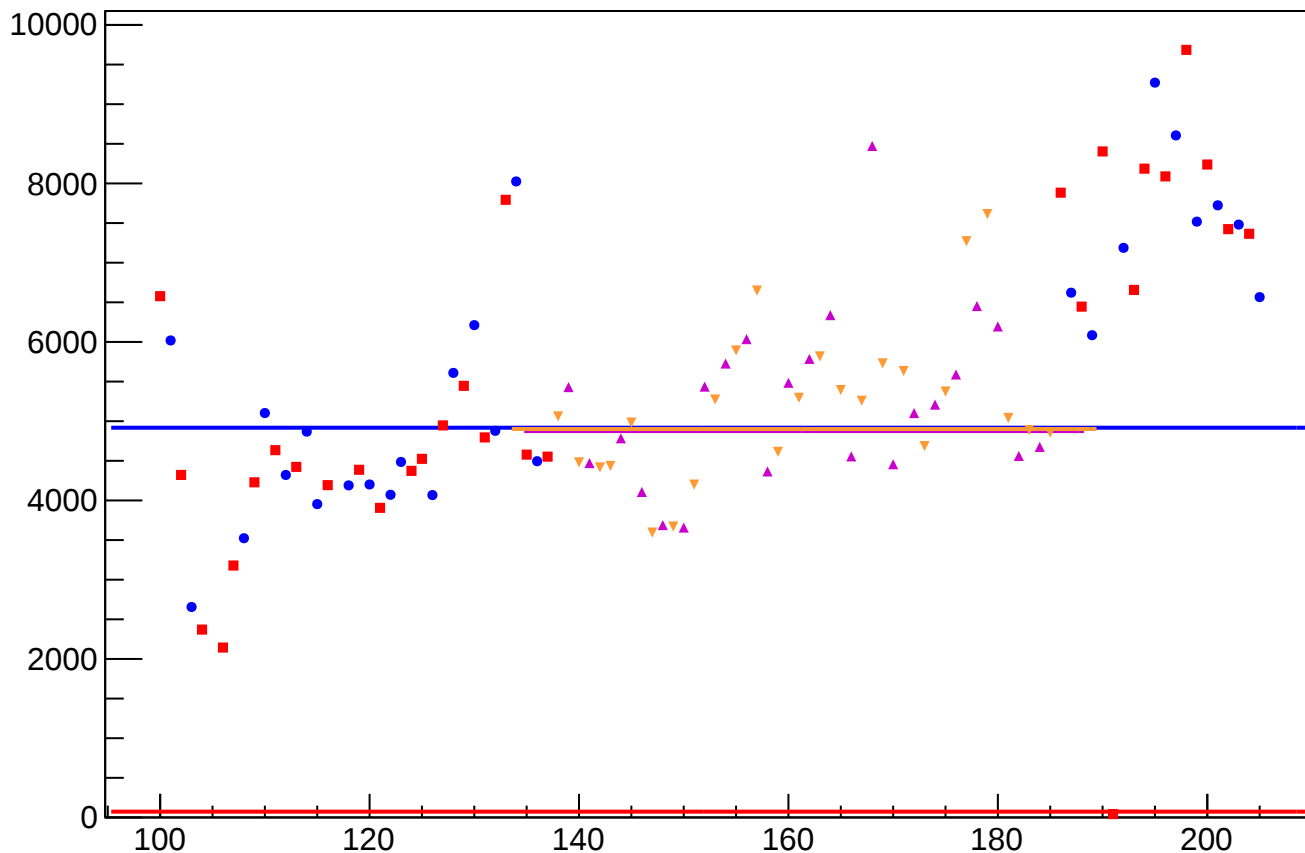
Right: -108.712 ± 109.260 $\chi^2/\text{NDF}: 59.2/55$

In: -372.471 ± 921.178 $\chi^2/\text{NDF}: 42.4/48$

Out: -103.362 ± 109.089 $\chi^2/\text{NDF}: 61.0/54$

All: -107.084 ± 108.332 $\chi^2/\text{NDF}: 103.5/103$

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4917.793+/-1.028 χ^2/NDF : 2816615.4/25

Left Out: 4901.357+/-0.824 χ^2/NDF :1136916.0/24

Right Out: 73.494+/-0.077 χ^2/NDF : 26834043.5/29

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

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

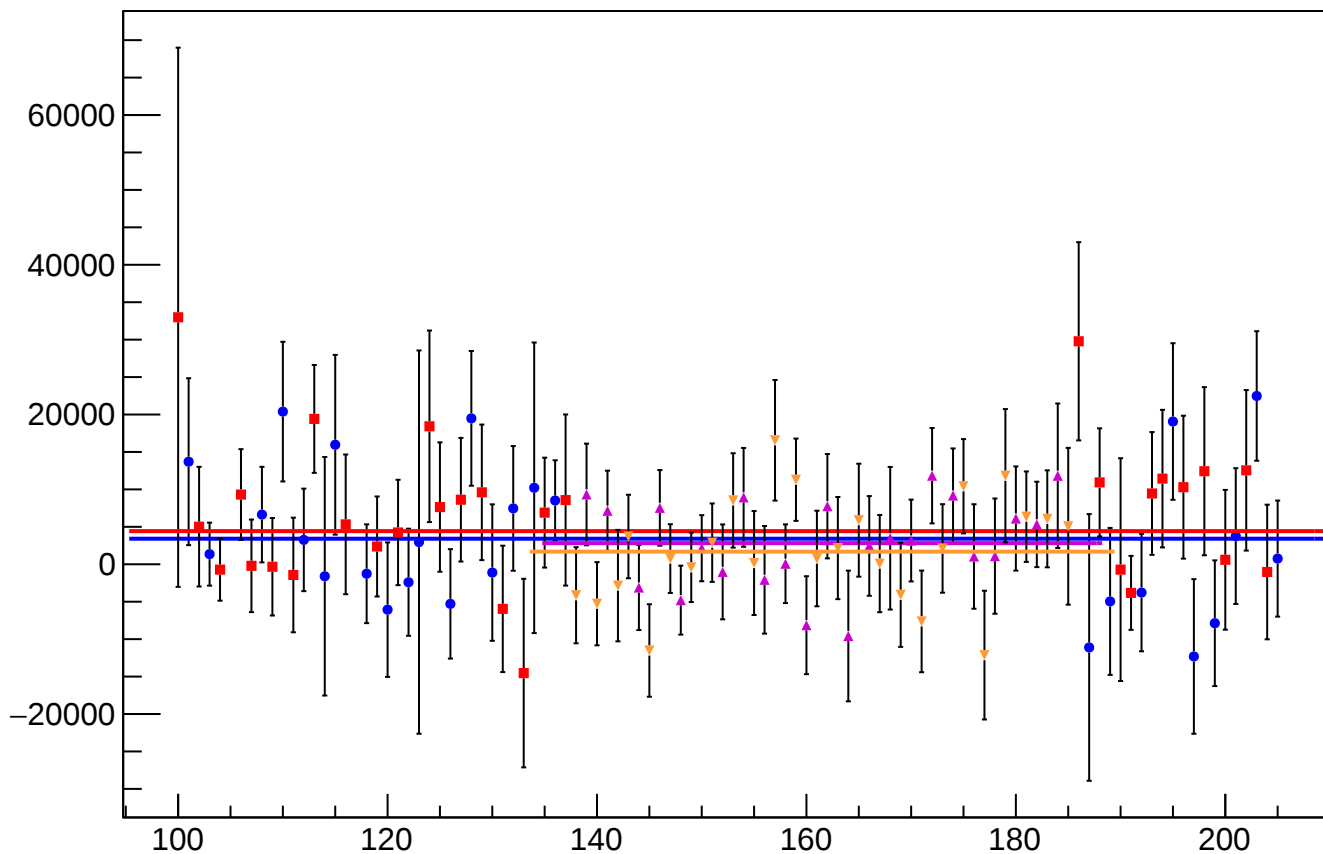
Right: 100.867+/-0.077 χ^2/NDF : 51741288.1/55

In: 4892.255+/-0.651 χ^2/NDF :4046845.3/48

Out: 115.764+/-0.077 χ^2/NDF :61967869.6/54

All: 181.824+/-0.077 χ^2/NDF : 119043618.4/1

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3414.389+/-1603.841 χ^2/NDF : 27.8/25

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

Right Out: 4428.493+/-1438.453 χ^2/NDF : 25.2/29

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

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

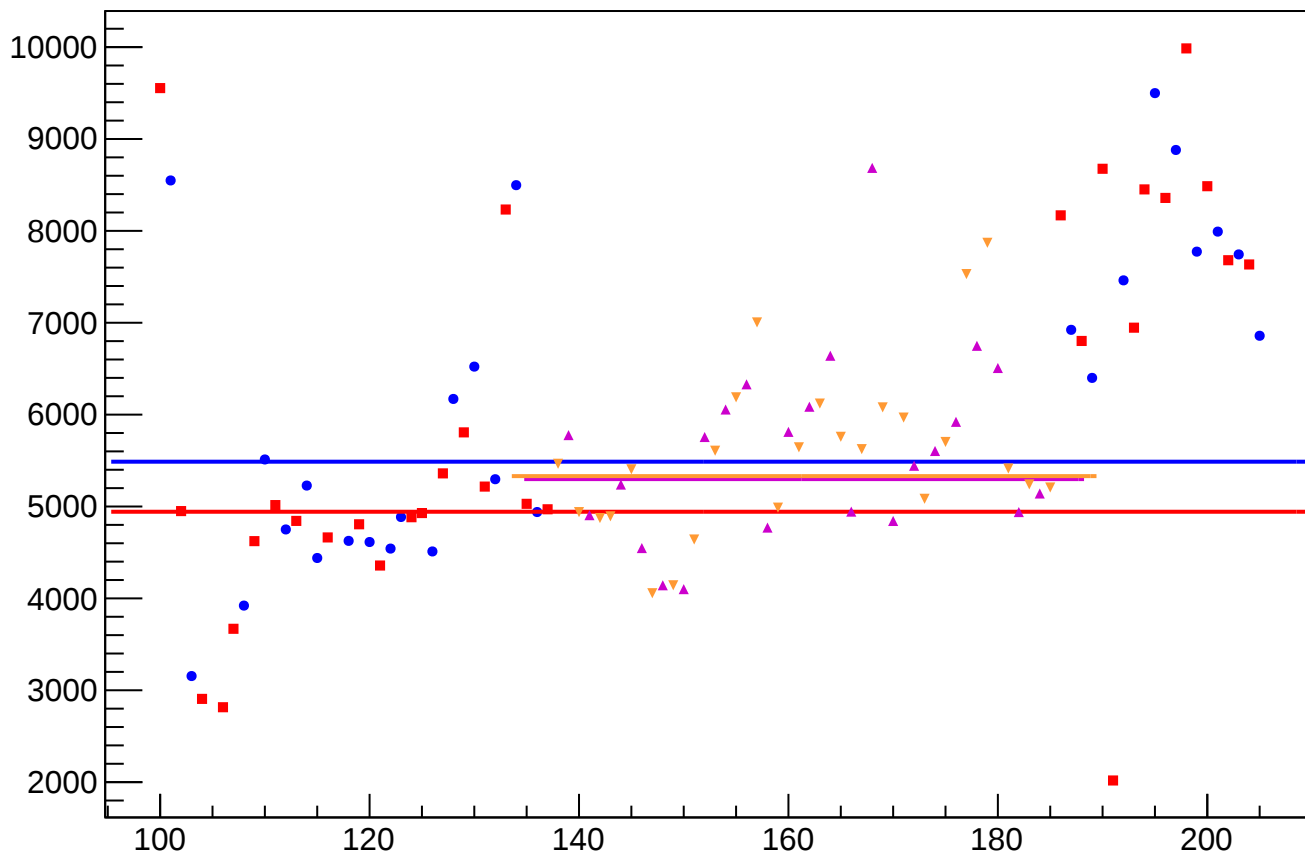
Right: 3976.409+/-1070.854 χ^2/NDF : 53.3/55

In: 3055.612+/-1004.449 χ^2/NDF : 45.9/48

Out: 2878.735+/-948.506 χ^2/NDF : 52.7/54

All: 2962.111+/-689.625 χ^2/NDF : 98.6/103

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5487.777 $\pm$ 1.134 χ^2/NDF : 2323903.8/25

Left Out: 5330.725 $\pm$ 0.892 χ^2/NDF : 868061.7/24

Right Out: 4943.037 $\pm$ 1.013 χ^2/NDF : 3811068.9/29

Left In: 5298.329 $\pm$ 0.911 χ^2/NDF : 956021.6/22

Left: 5314.867 $\pm$ 0.637 χ^2/NDF : 1824728.8/47

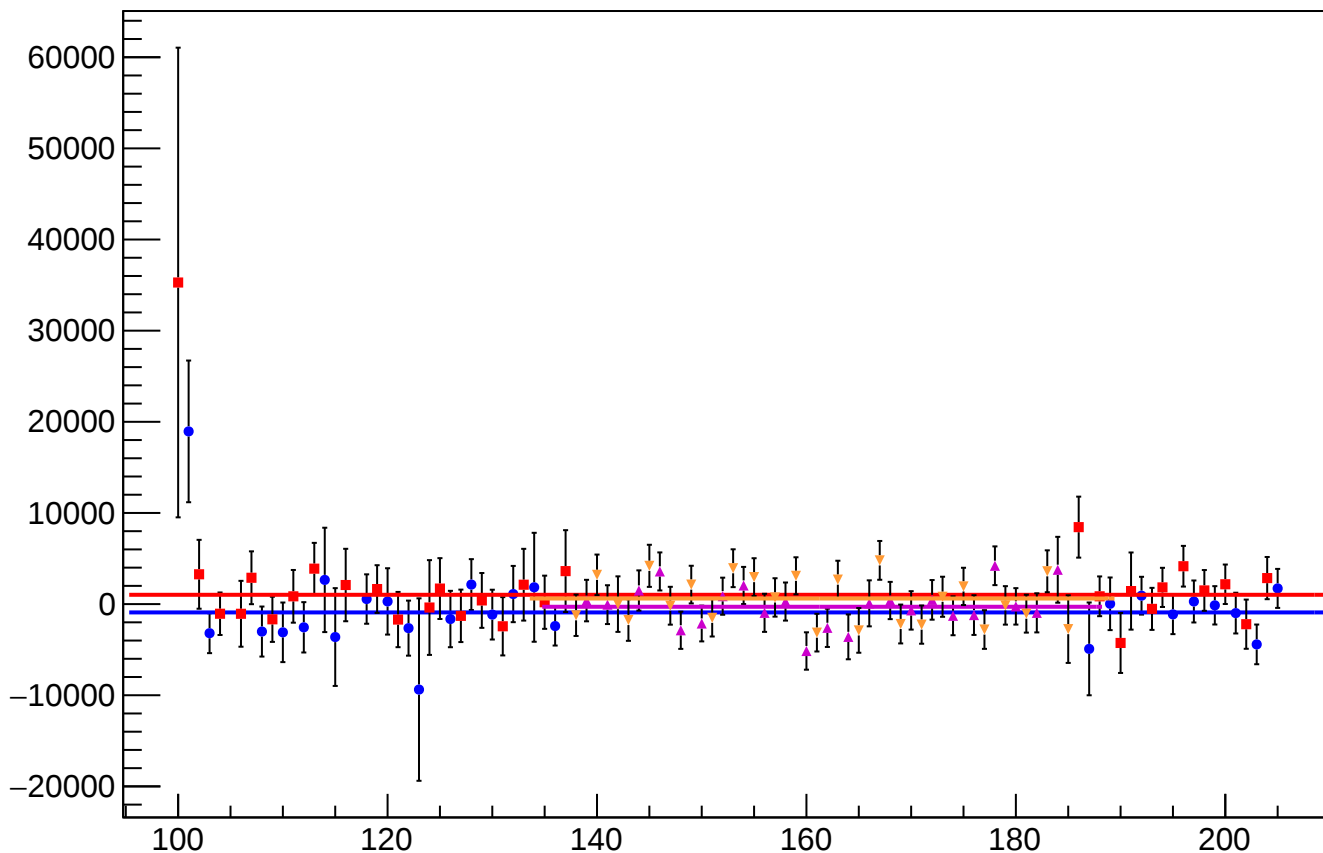
Right: 5184.795 $\pm$ 0.756 χ^2/NDF : 6263298.0/55

In: 5372.635 $\pm$ 0.710 χ^2/NDF : 3296885.5/48

Out: 5161.389 $\pm$ 0.670 χ^2/NDF : 4761617.0/54

All: 5260.781 $\pm$ 0.487 χ^2/NDF : 8105342.2/10

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -913.156 ± 546.676 χ^2/NDF : 19.5/25

Left Out: 612.314 ± 438.264 χ^2/NDF : 32.7/24

Right Out: 1020.991 ± 523.149 χ^2/NDF : 21.7/29

Left In: -293.009 ± 449.575 χ^2/NDF : 23.6/22

Left: 171.185 ± 313.822 χ^2/NDF : 58.4/47

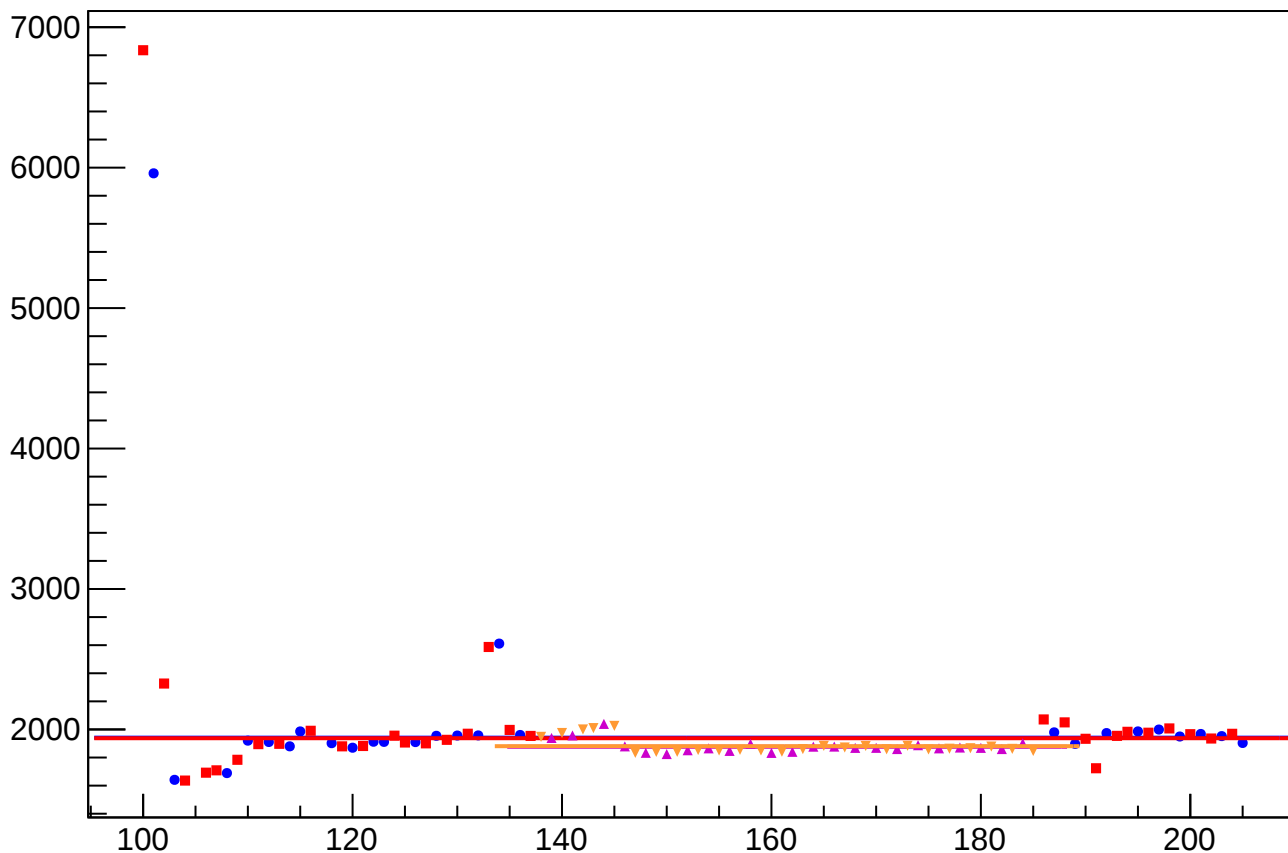
Right: 96.432 ± 377.966 χ^2/NDF : 47.8/55

In: -543.208 ± 347.237 χ^2/NDF : 43.9/48

Out: 780.849 ± 335.954 χ^2/NDF : 54.8/54

All: 140.681 ± 241.446 χ^2/NDF : 106.2/103

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1941.550+/-0.387 χ^2/NDF : 620802.8/25

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1937.495+/-0.369 χ^2/NDF : 234164.3/29

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

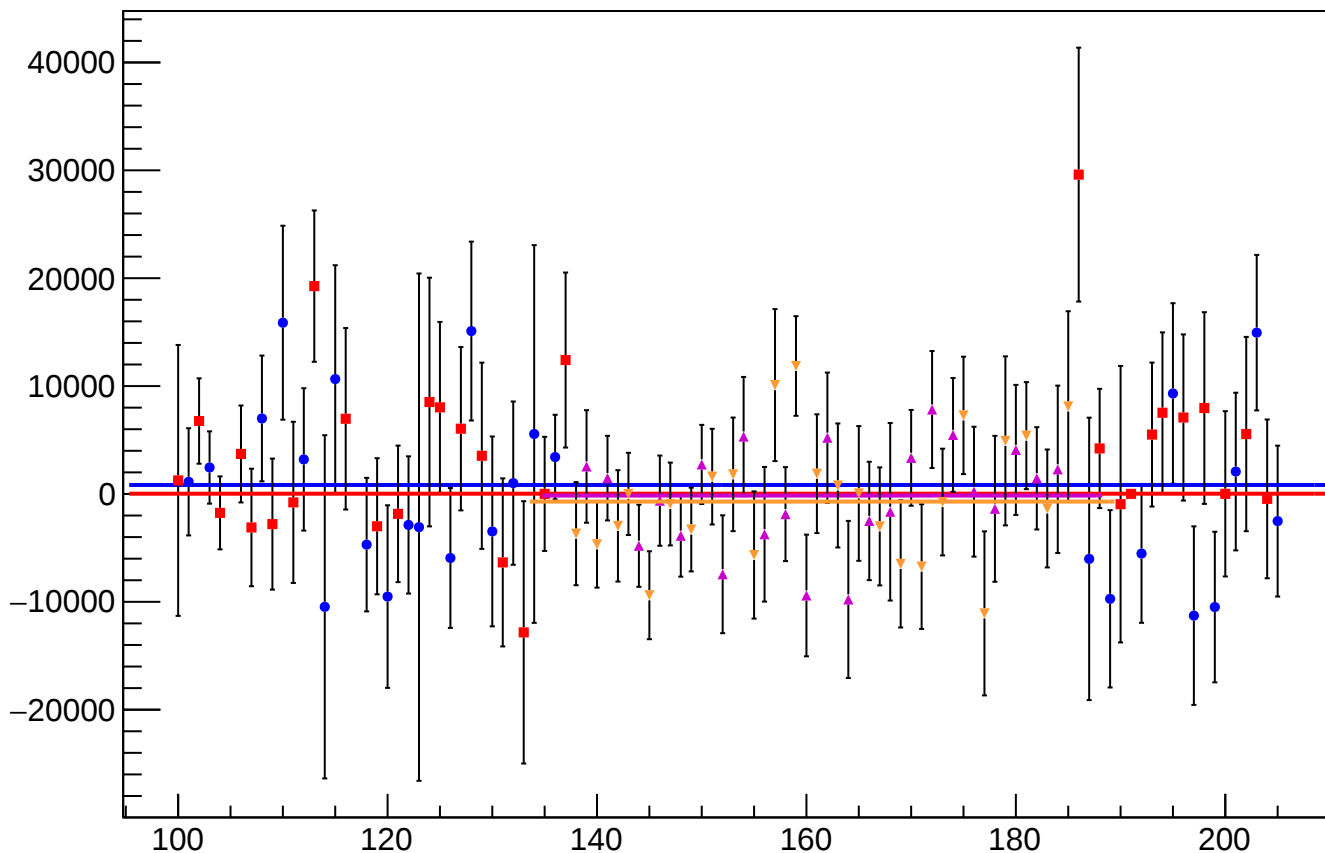
Right: 1939.431+/-0.267 χ^2/NDF : 855024.6/55

In: 1902.855+/-0.246 χ^2/NDF : 658099.6/48

Out: 1904.217+/-0.237 χ^2/NDF : 276637.1/54

All: 1903.559+/-0.171 χ^2/NDF : 934752.6/103

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 832.456+/-1331.972 χ^2/NDF : 25.9/25

Left Out: -707.785+/-1017.719 χ^2/NDF : 27.1/24

Right Out: 22.836+/-85.804 χ^2/NDF : 30.1/29

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

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

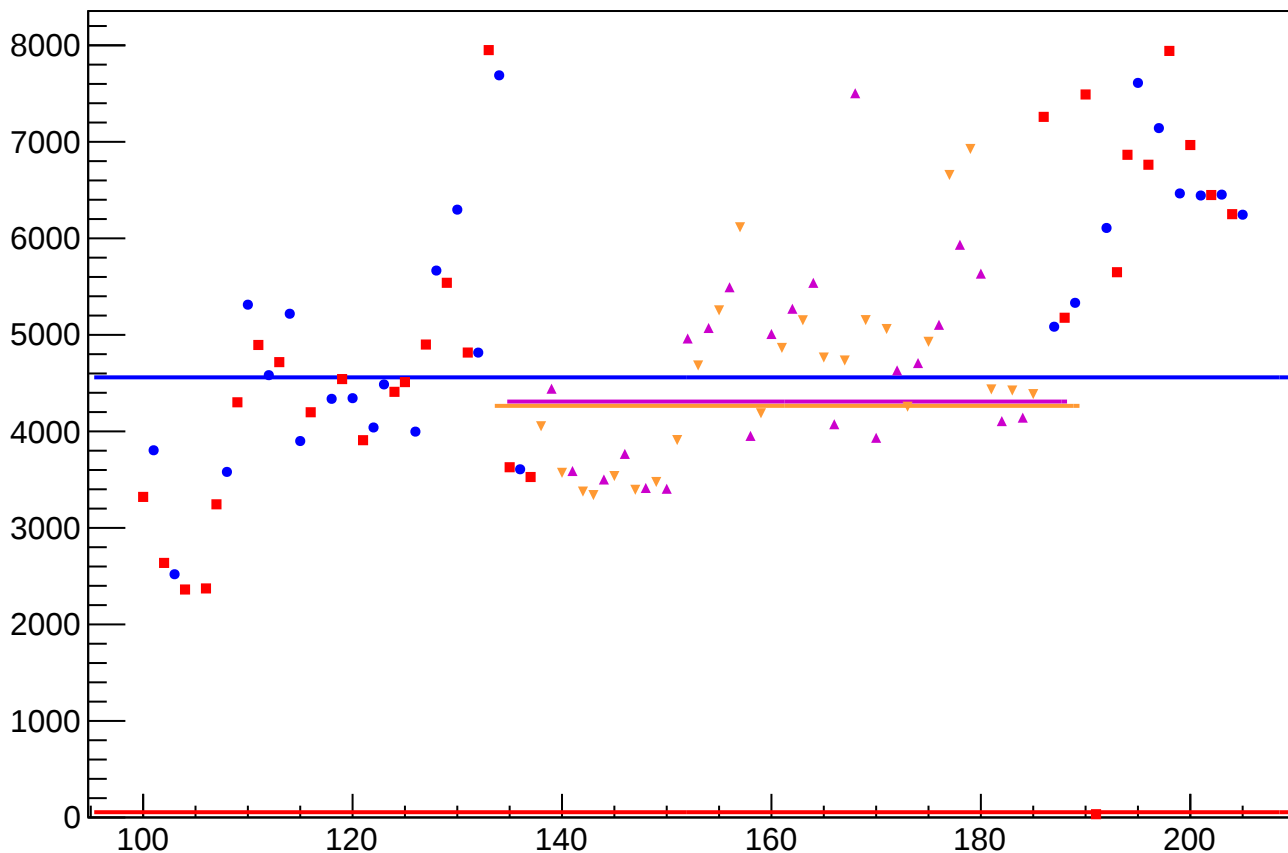
Right: 26.182+/-85.626 χ^2/NDF : 56.3/55

In: 227.845+/-826.362 χ^2/NDF : 43.1/48

Out: 17.679+/-85.501 χ^2/NDF : 57.7/54

All: 19.905+/-85.047 χ^2/NDF : 100.9/103

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4559.879+/-0.942 χ^2/NDF : 2333550.3/25

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 54.331+/-0.061 χ^2/NDF : 26977567.1/29

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

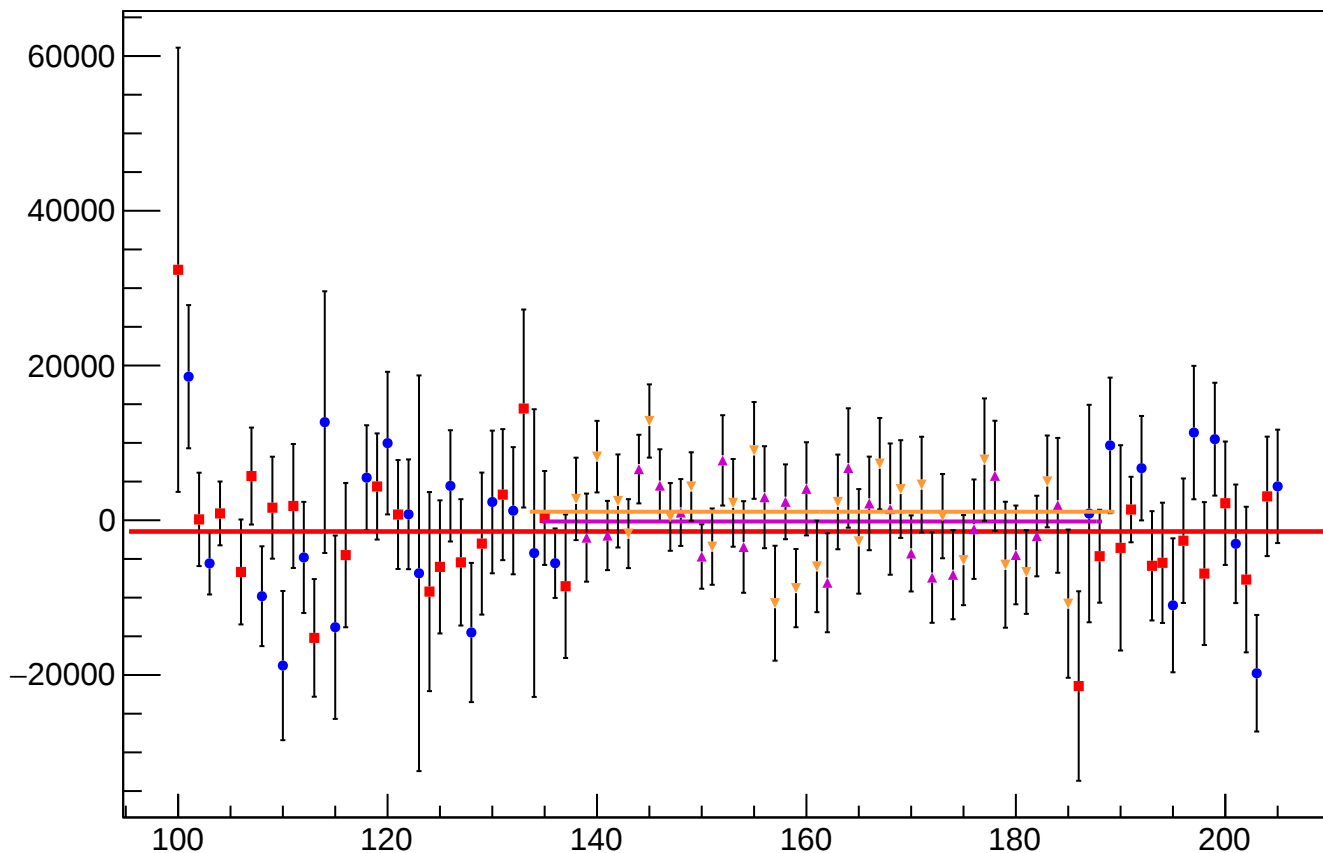
Right: 72.951+/-0.061 χ^2/NDF : 52100689.7/55

In: 4405.585+/-0.584 χ^2/NDF : 3682314.5/48

Out: 84.046+/-0.060 χ^2/NDF : 62317159.7/54

All: 129.820+/-0.060 χ^2/NDF : 120117403.2/57

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1452.951 ± 1502.406 χ^2/NDF : 35.1/25

Left Out: 1102.204 ± 1126.663 χ^2/NDF : 28.6/24

Right Out: -1455.058 ± 1345.631 χ^2/NDF : 17.1/29

Left In: -158.683 ± 1161.507 χ^2/NDF : 15.5/22

Left: 490.957 ± 808.709 χ^2/NDF : 44.7/47

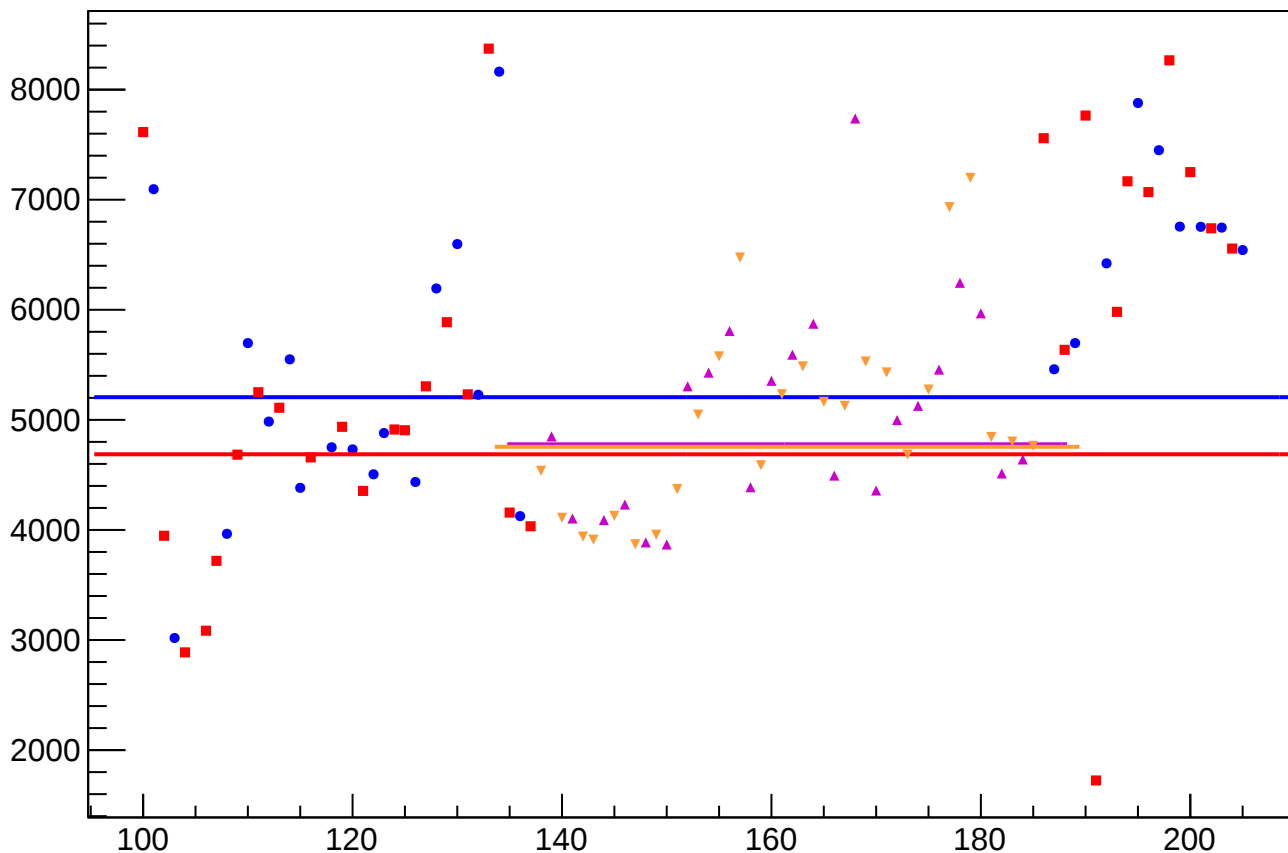
Right: -1454.121 ± 1002.364 χ^2/NDF : 52.2/55

In: -642.859 ± 918.918 χ^2/NDF : 51.1/48

Out: 48.303 ± 863.850 χ^2/NDF : 47.8/54

All: -275.949 ± 629.402 χ^2/NDF : 99.2/103

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5206.003 $\pm$ 1.062 χ^2/NDF : 1780588.0/25

Left Out: 4755.383 $\pm$ 0.797 χ^2/NDF : 953328.0/24

Right Out: 4687.456 $\pm$ 0.948 χ^2/NDF : 3294299.5/29

Left In: 4777.831 $\pm$ 0.821 χ^2/NDF : 950291.2/22

Left: 4766.265 $\pm$ 0.572 χ^2/NDF : 1904004.1/47

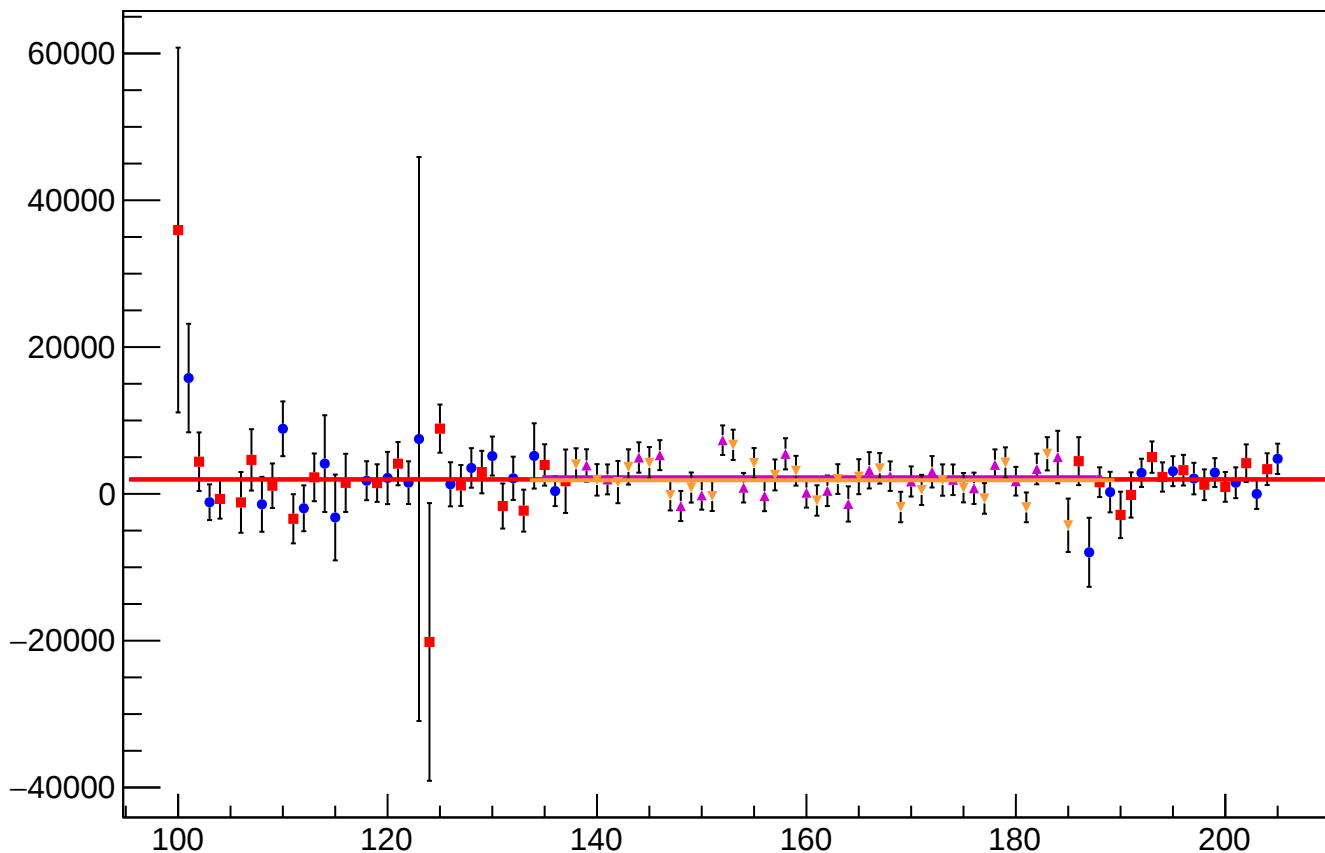
Right: 4917.367 $\pm$ 0.707 χ^2/NDF : 5207502.9/55

In: 4938.007 $\pm$ 0.650 χ^2/NDF : 2832551.4/48

Out: 4727.273 $\pm$ 0.610 χ^2/NDF : 4250636.0/54

All: 4825.983 $\pm$ 0.445 χ^2/NDF : 7139101.4/100

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1967.624+/-535.877 χ^2/NDF : 23.3/25

Left Out: 1856.570+/-430.977 χ^2/NDF :30.0/24

Right Out: 1975.489+/-514.766 χ^2/NDF : 24.9/29

Left In: 2268.464+/-441.710 χ^2/NDF :26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

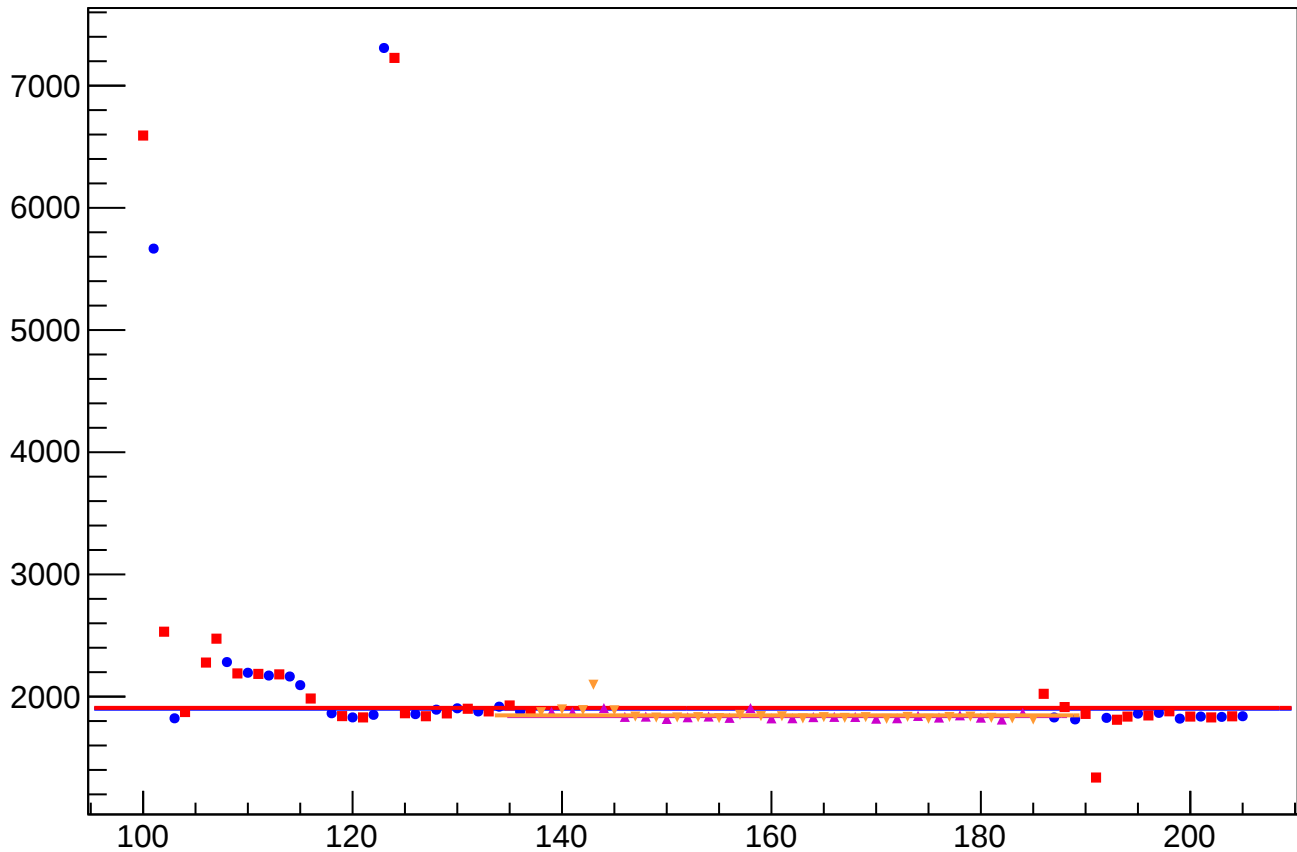
Right: 1971.715+/-371.233 χ^2/NDF : 48.2/55

In: 2146.757+/-340.845 χ^2/NDF :50.3/48

Out: 1905.576+/-330.451 χ^2/NDF :55.0/54

All: 2022.433+/-237.254 χ^2/NDF : 105.5/103

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1901.001+/-0.379 χ^2/NDF : 633004.6/25

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1907.894+/-0.364 χ^2/NDF : 468938.0/29

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

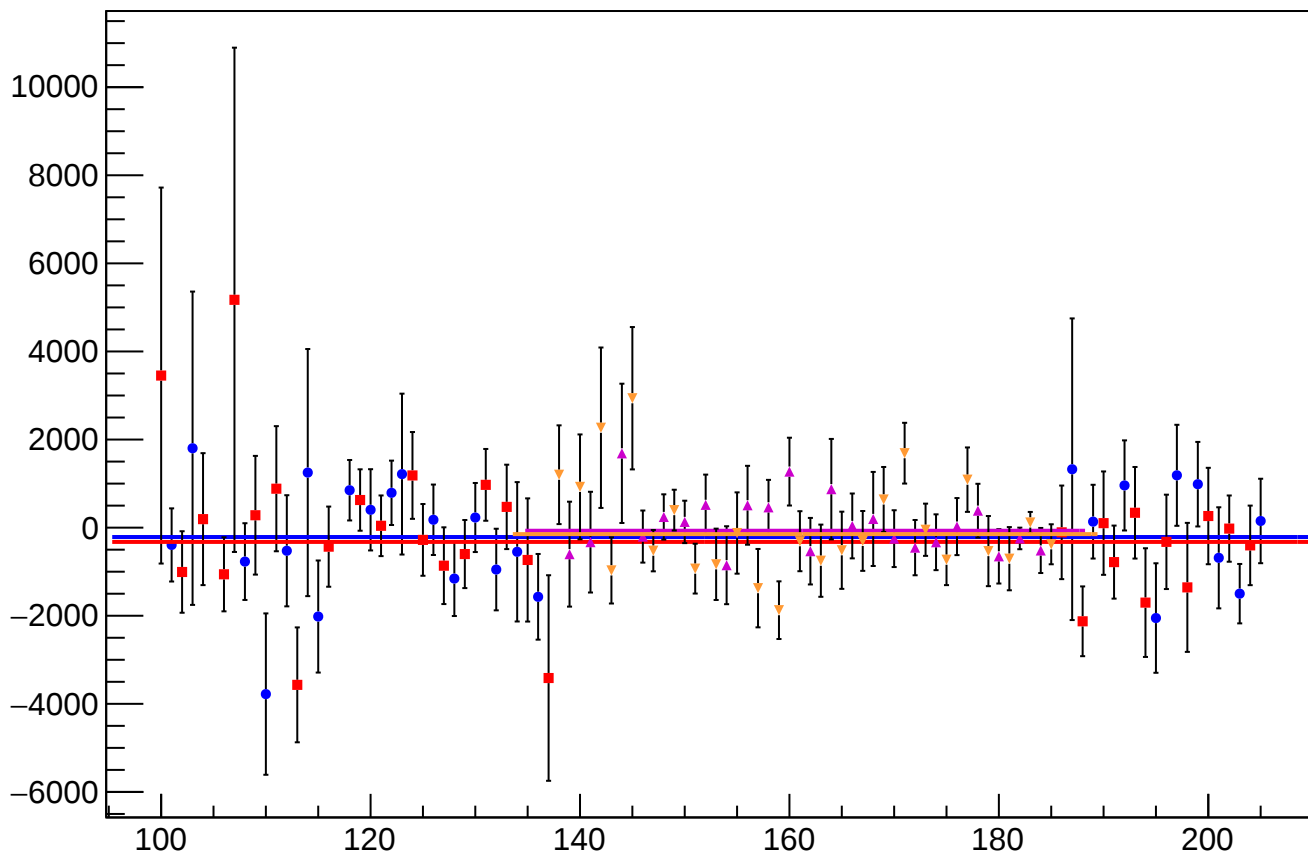
Right: 1904.586+/-0.263 χ^2/NDF : 1102114.7/55

In: 1865.001+/-0.241 χ^2/NDF : 654903.9/48

Out: 1871.860+/-0.234 χ^2/NDF : 512910.3/54

All: 1868.537+/-0.168 χ^2/NDF : 1168231.6/10

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -212.832 ± 195.389 $\chi^2/\text{NDF}: 27.6/25$

Left Out: -146.999 ± 121.984 $\chi^2/\text{NDF}: 37.7/24$

Right Out: -323.855 ± 181.508 $\chi^2/\text{NDF}: 28.6/29$

Left In: -70.340 ± 126.373 $\chi^2/\text{NDF}: 12.3/22$

Left: -110.024 ± 87.766 $\chi^2/\text{NDF}: 50.1/47$

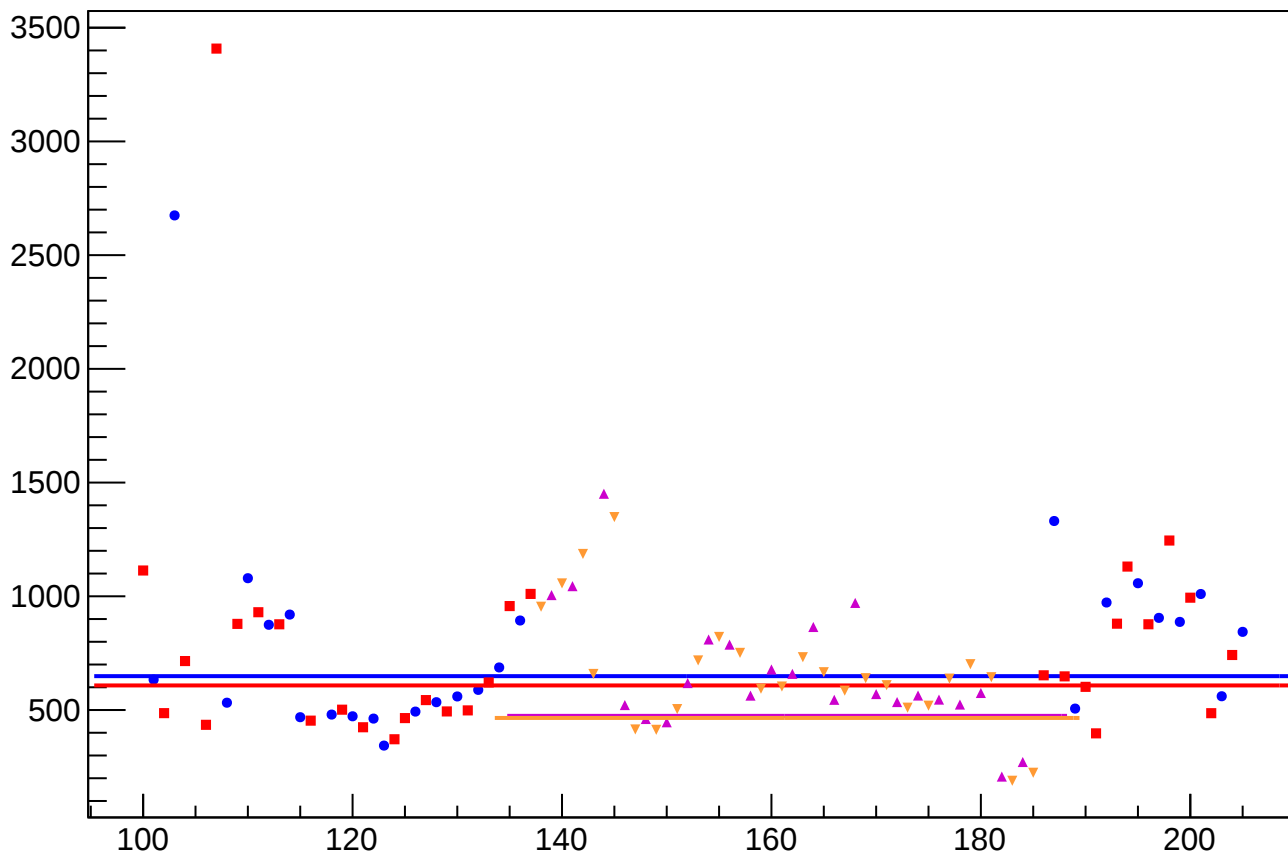
Right: -272.427 ± 132.982 $\chi^2/\text{NDF}: 56.3/55$

In: -112.367 ± 106.113 $\chi^2/\text{NDF}: 40.2/48$

Out: -202.025 ± 101.244 $\chi^2/\text{NDF}: 66.9/54$

All: -159.300 ± 73.251 $\chi^2/\text{NDF}: 107.5/103$

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 648.905 $\pm$ 0.138 χ^2/NDF : 2666501.4/25

Left Out: 465.080 $\pm$ 0.086 χ^2/NDF : 7086137.6/24

Right Out: 608.027 $\pm$ 0.128 χ^2/NDF : 3087603.4/29

Left In: 474.263 $\pm$ 0.089 χ^2/NDF : 6173100.1/22

Left: 469.509 $\pm$ 0.062 χ^2/NDF : 13264703.6/47

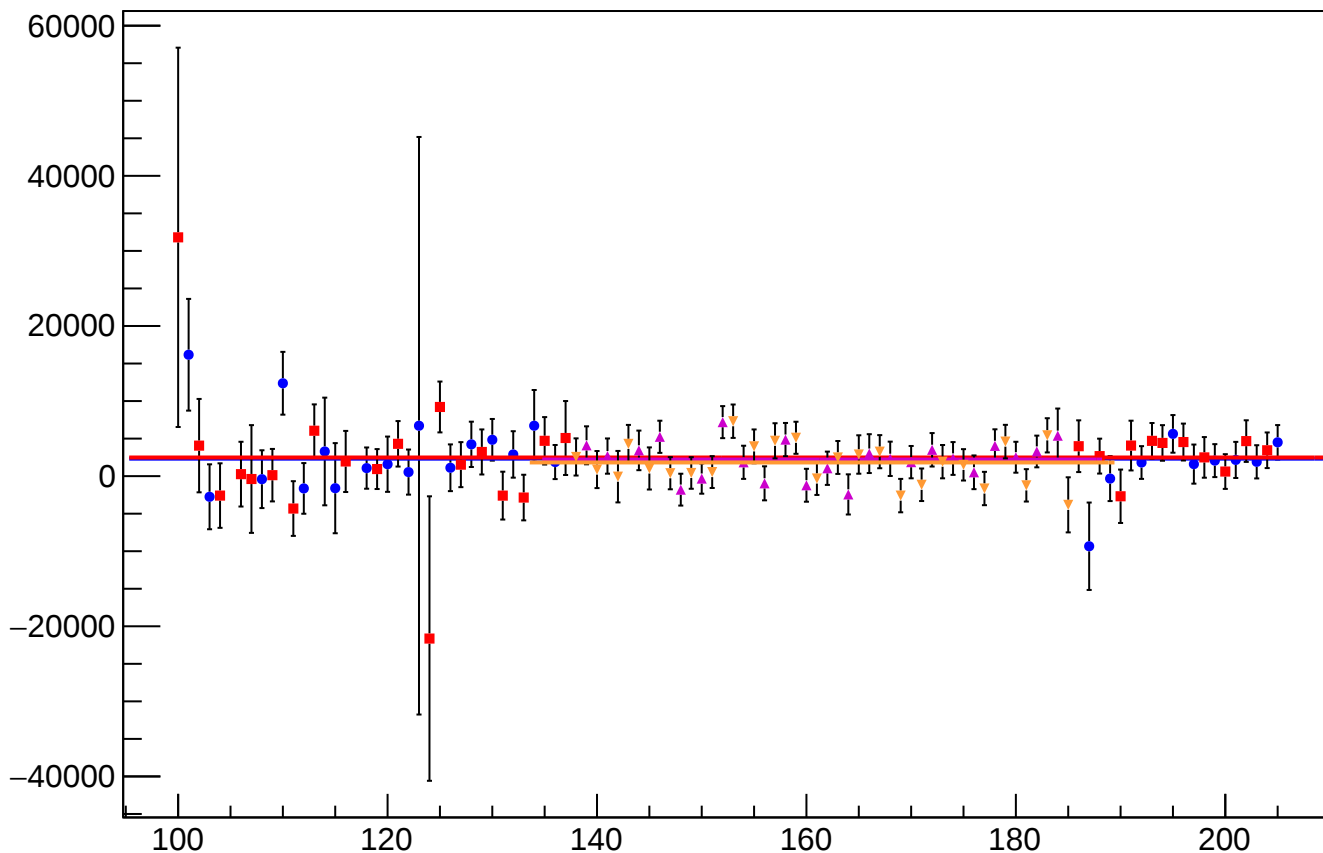
Right: 626.962 $\pm$ 0.094 χ^2/NDF : 5801094.6/55

In: 525.771 $\pm$ 0.075 χ^2/NDF : 9966153.1/48

Out: 509.556 $\pm$ 0.072 χ^2/NDF : 11028251.3/54

All: 517.283 $\pm$ 0.052 χ^2/NDF : 21018852.8/10

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2328.899 $\pm$ 601.192 χ^2 /NDF: 23.5/25

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 2482.562 $\pm$ 581.698 χ^2 /NDF: 27.3/29

Left In: 2208.114 $\pm$ 474.050 χ^2 /NDF:25.3/22

Left: 2011.435 $\pm$ 331.116 χ^2 /NDF: 57.8/47

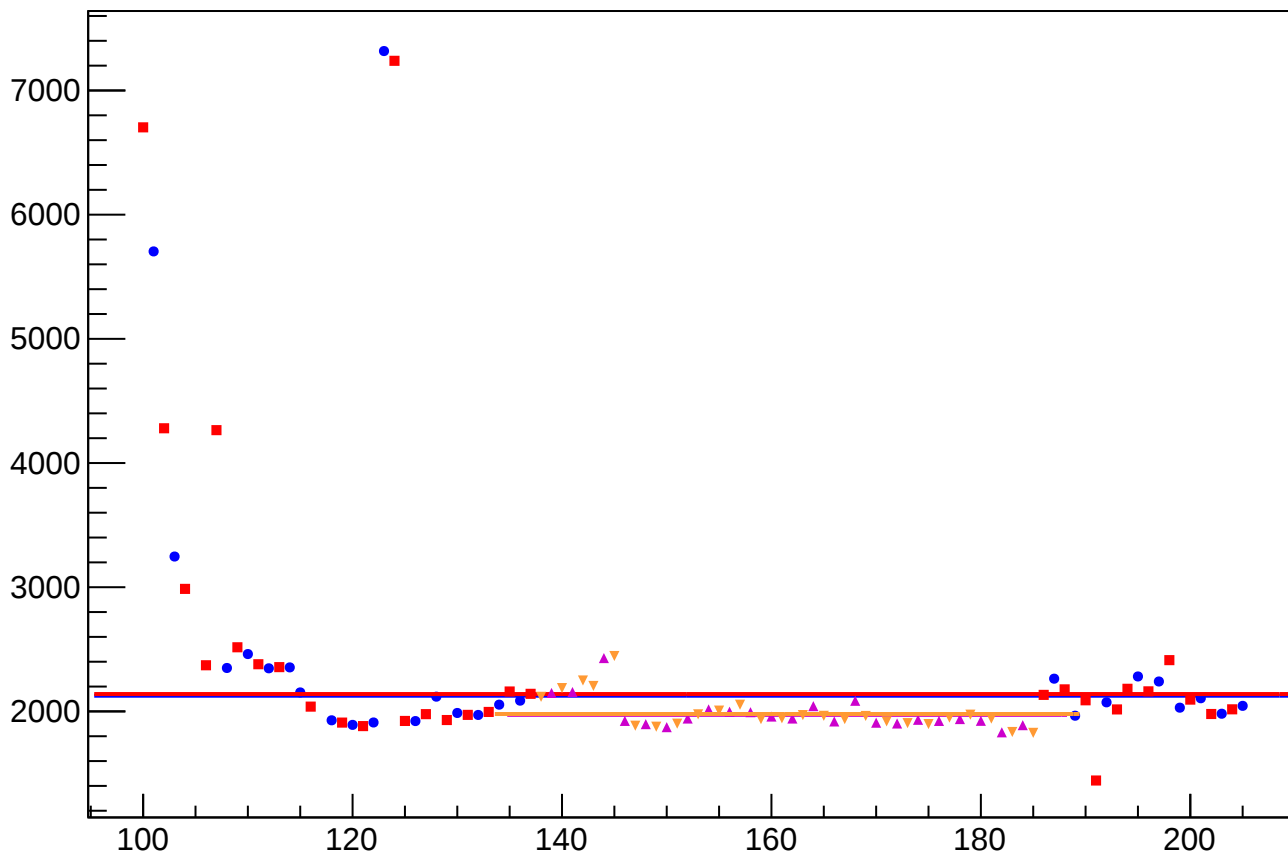
Right: 2408.262 $\pm$ 418.044 χ^2 /NDF: 50.8/55

In: 2254.421 $\pm$ 372.247 χ^2 /NDF:48.8/48

Out: 2079.242 $\pm$ 362.111 χ^2 /NDF:60.1/54

All: 2164.414 $\pm$ 259.560 χ^2 /NDF: 109.1/103

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2126.383+/-0.425 χ^2/NDF : 746645.9/25

Left Out: 1978.997+/-0.327 χ^2/NDF :139299.8/24

Right Out: 2139.798+/-0.411 χ^2/NDF : 938596.7/29

Left In: 1972.166+/-0.335 χ^2/NDF :116452.5/22

Left: 1975.665+/-0.234 χ^2/NDF : 255965.0/47

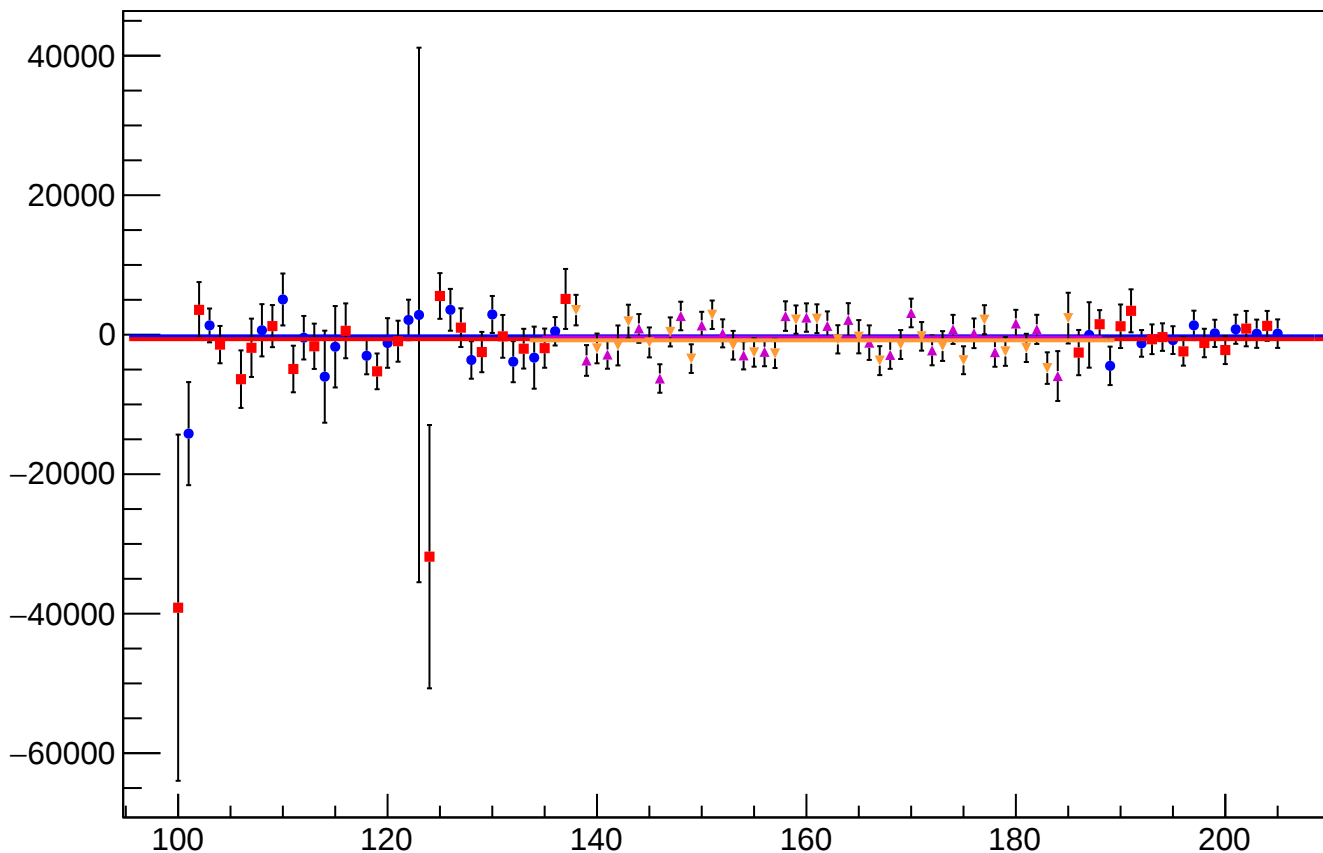
Right: 2133.312+/-0.296 χ^2/NDF : 1685756.9/55

In: 2031.291+/-0.263 χ^2/NDF :944246.8/48

Out: 2041.310+/-0.256 χ^2/NDF :1171503.6/54

All: 2036.439+/-0.184 χ^2/NDF : 2116494.8/100

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -239.905 $\pm$ 532.387 χ^2 /NDF: 19.1/25

Left Out: -808.436 $\pm$ 430.304 χ^2 /NDF:27.9/24

Right Out: -642.346 $\pm$ 511.359 χ^2 /NDF: 26.5/29

Left In: -398.797 $\pm$ 441.246 χ^2 /NDF:34.4/22

Left: -608.759 $\pm$ 308.066 χ^2 /NDF: 62.8/47

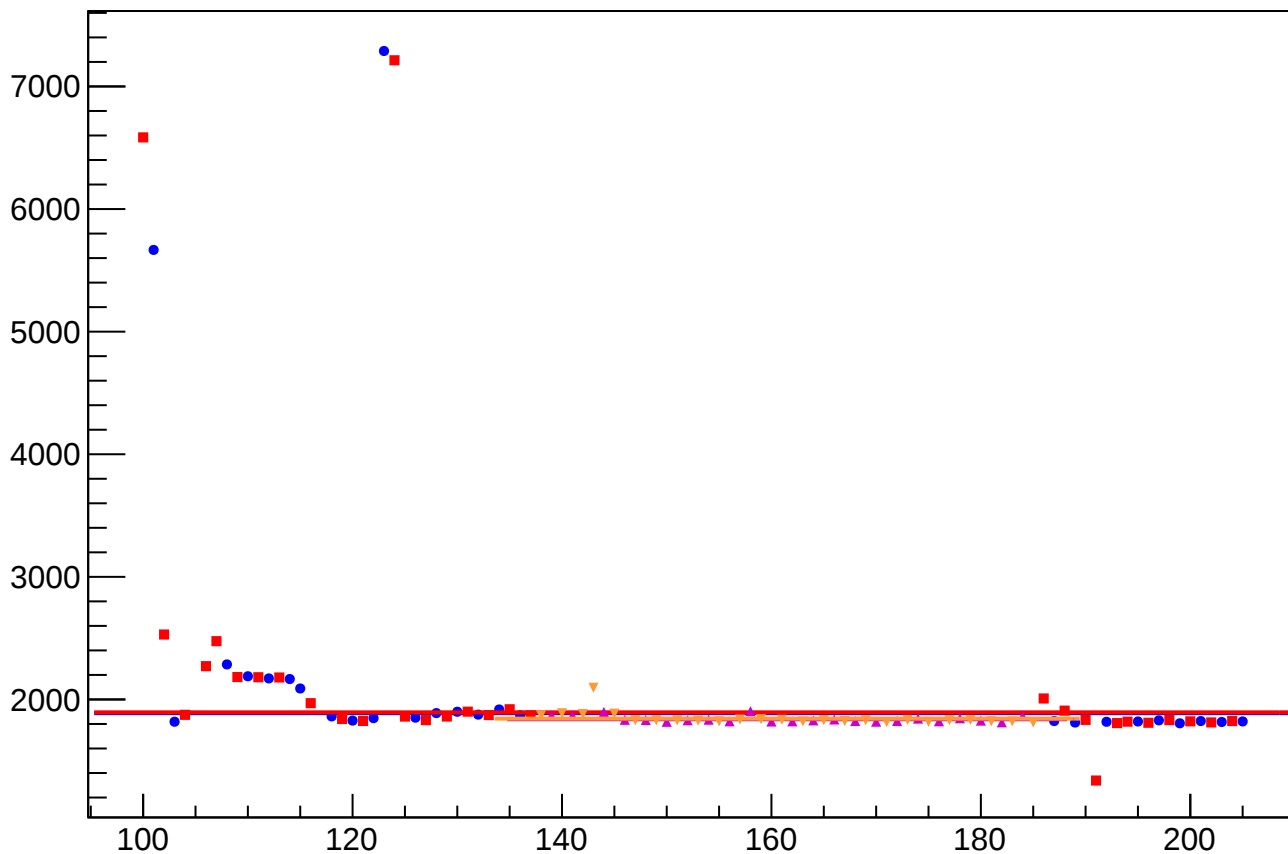
Right: -449.230 $\pm$ 368.795 χ^2 /NDF: 45.9/55

In: -334.096 $\pm$ 339.730 χ^2 /NDF:53.5/48

Out: -739.582 $\pm$ 329.244 χ^2 /NDF:54.5/54

All: -543.193 $\pm$ 236.431 χ^2 /NDF: 108.8/103

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1888.263+/-0.376 χ^2/NDF : 642403.8/25

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1895.054+/-0.362 χ^2/NDF : 475889.3/29

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

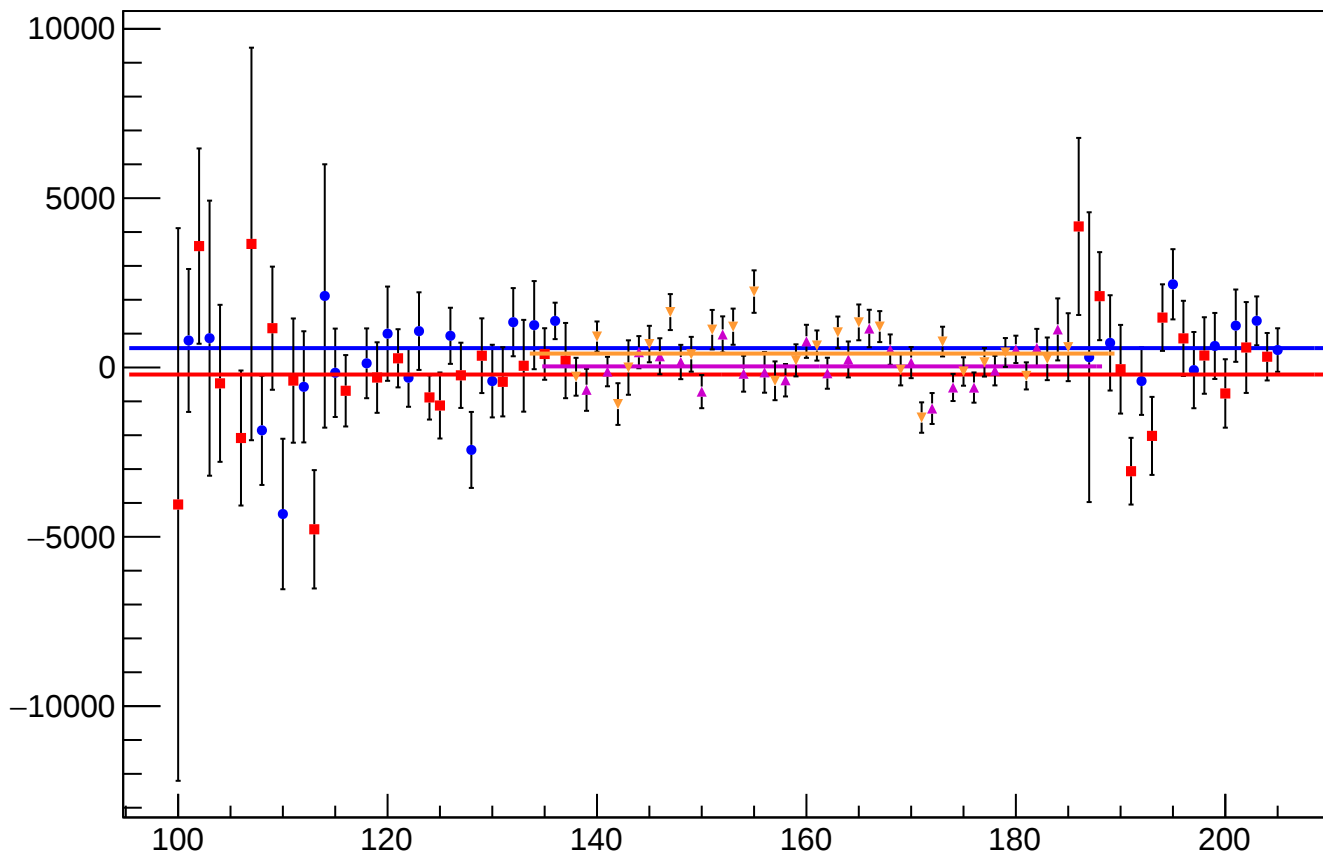
Right: 1891.796+/-0.261 χ^2/NDF : 1118462.4/55

In: 1858.830+/-0.240 χ^2/NDF : 659051.2/48

Out: 1865.017+/-0.233 χ^2/NDF : 514544.4/54

All: 1862.020+/-0.167 χ^2/NDF : 1173937.6/100

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 572.188+/-207.726 χ^2/NDF : 27.1/25

Left Out: 411.072+/-100.456 χ^2/NDF : 61.2/24

Right Out: -207.524+/-206.965 χ^2/NDF : 36.5/29

Left In: 32.456+/-102.403 χ^2/NDF : 32.7/22

Left: 225.398+/-71.712 χ^2/NDF : 100.9/47

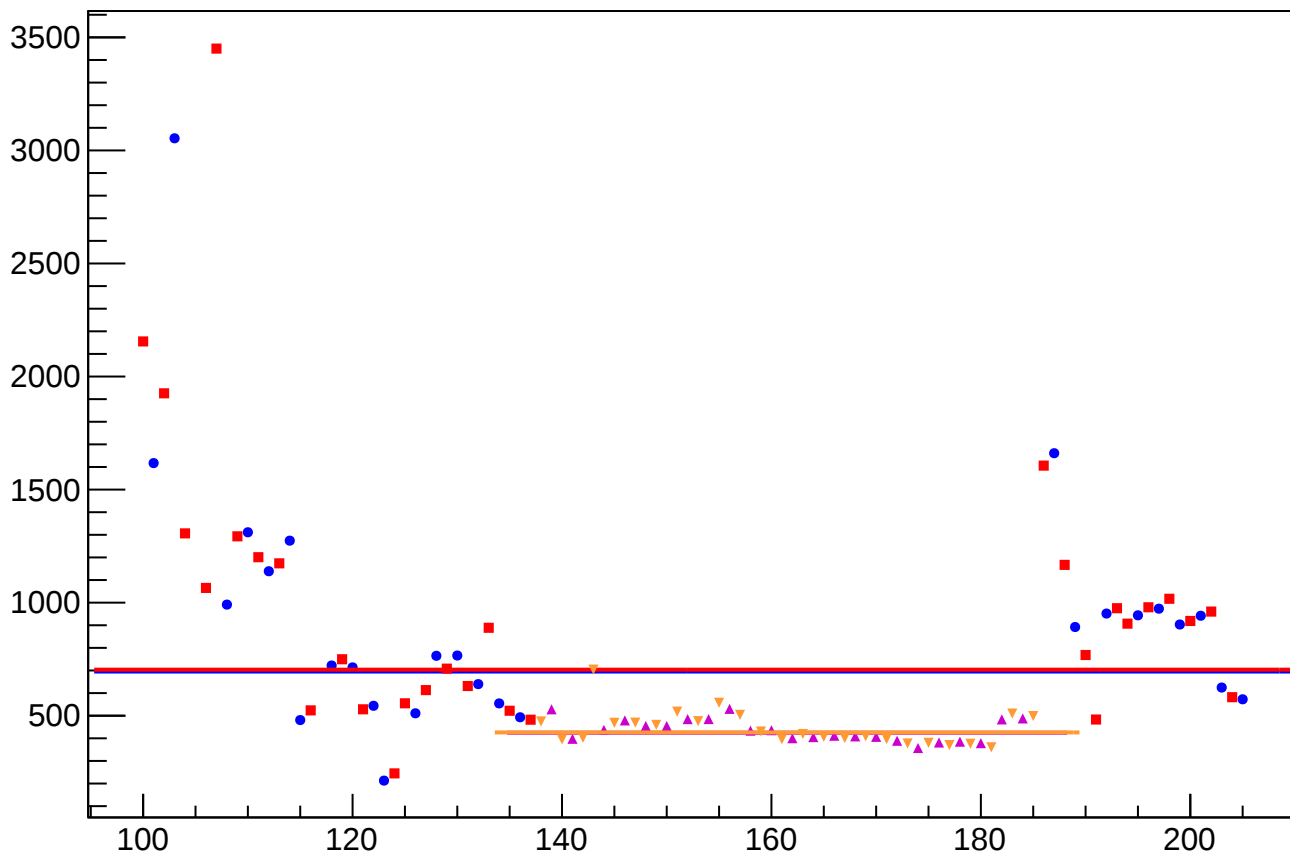
Right: 180.900+/-146.615 χ^2/NDF : 70.7/55

In: 137.979+/-91.849 χ^2/NDF : 65.3/48

Out: 293.124+/-90.373 χ^2/NDF : 104.9/54

All: 216.808+/-64.419 χ^2/NDF : 171.6/103

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 695.332 $\pm$ 0.147 χ^2 /NDF: 3167030.6/25

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 703.577 $\pm$ 0.146 χ^2 /NDF: 4307453.5/29

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

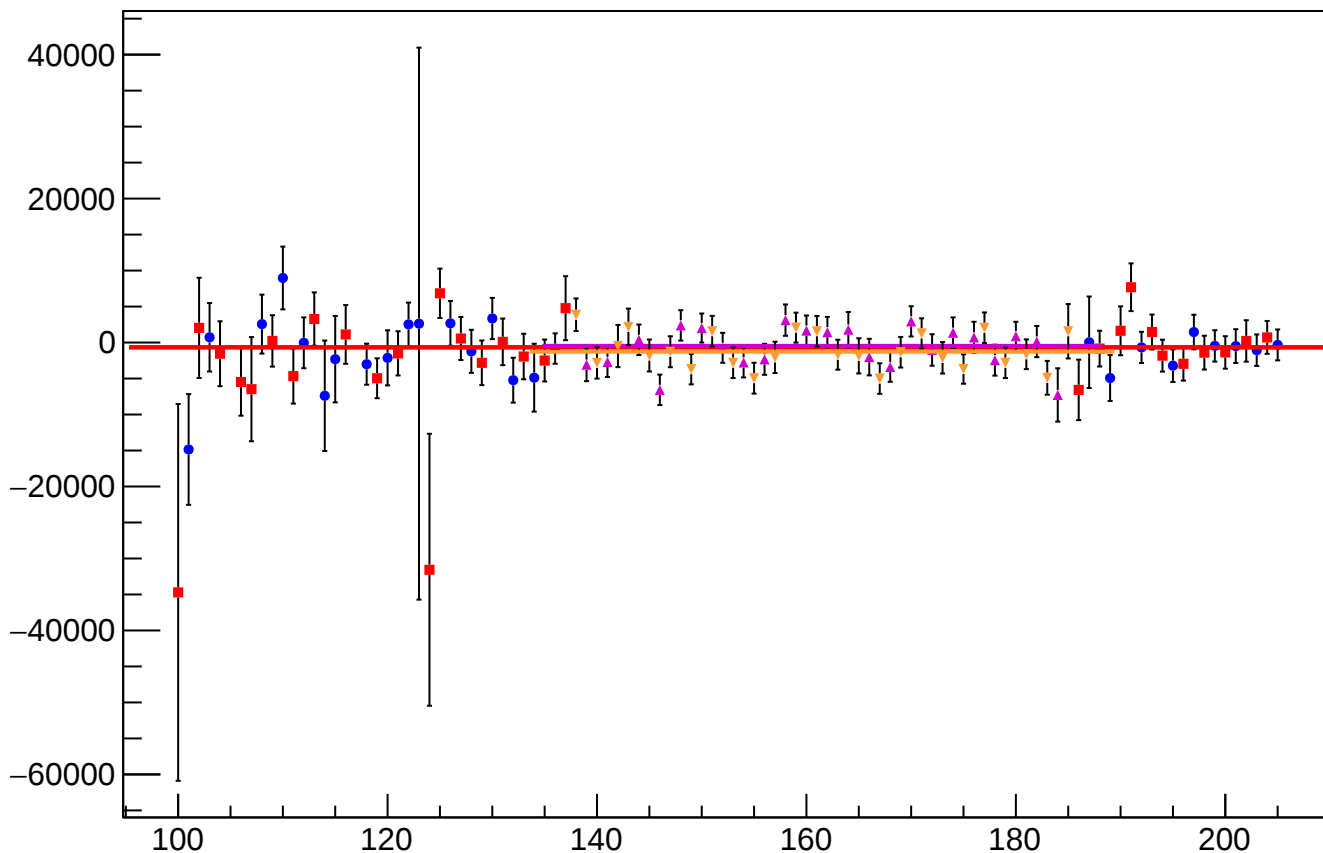
Right: 699.470 $\pm$ 0.104 χ^2 /NDF: 7476065.4/55

In: 477.562 $\pm$ 0.065 χ^2 /NDF: 6290922.4/48

Out: 478.948 $\pm$ 0.064 χ^2 /NDF: 7951542.0/54

All: 478.266 $\pm$ 0.046 χ^2 /NDF: 14242695.9/100

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -674.321+/-594.392 χ^2/NDF : 21.8/25

Left Out: -1267.885+/-443.219 χ^2/NDF : 30.8/24

Right Out: -647.341+/-580.864 χ^2/NDF : 30.2/29

Left In: -462.599+/-453.947 χ^2/NDF : 32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

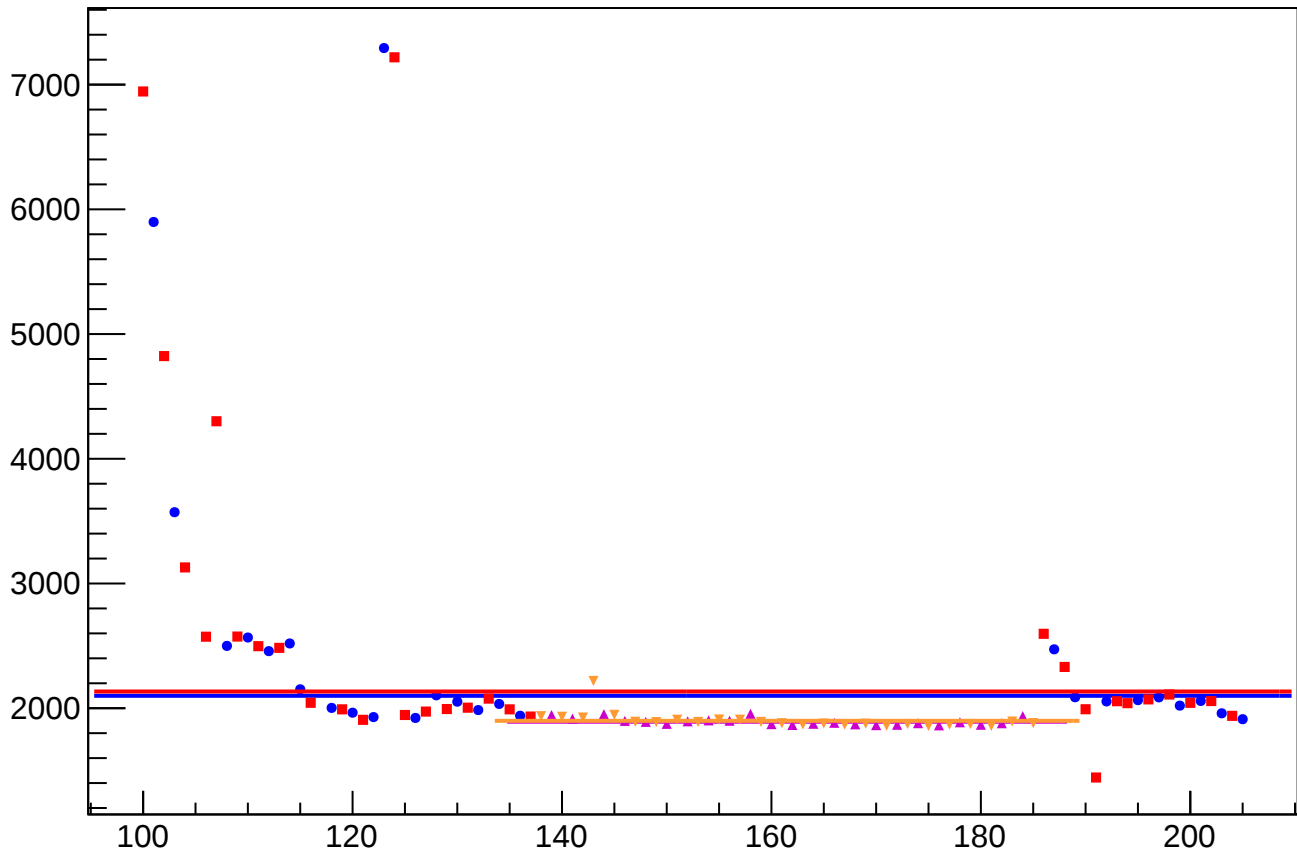
Right: -660.520+/-415.433 χ^2/NDF : 52.0/55

In: -540.596+/-360.768 χ^2/NDF : 54.5/48

Out: -1039.539+/-352.358 χ^2/NDF : 61.7/54

All: -795.951+/-252.076 χ^2/NDF : 117.2/103

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2099.571+/-0.420 χ^2/NDF : 852572.8/25

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2134.101+/-0.411 χ^2/NDF : 1071216.1/29

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

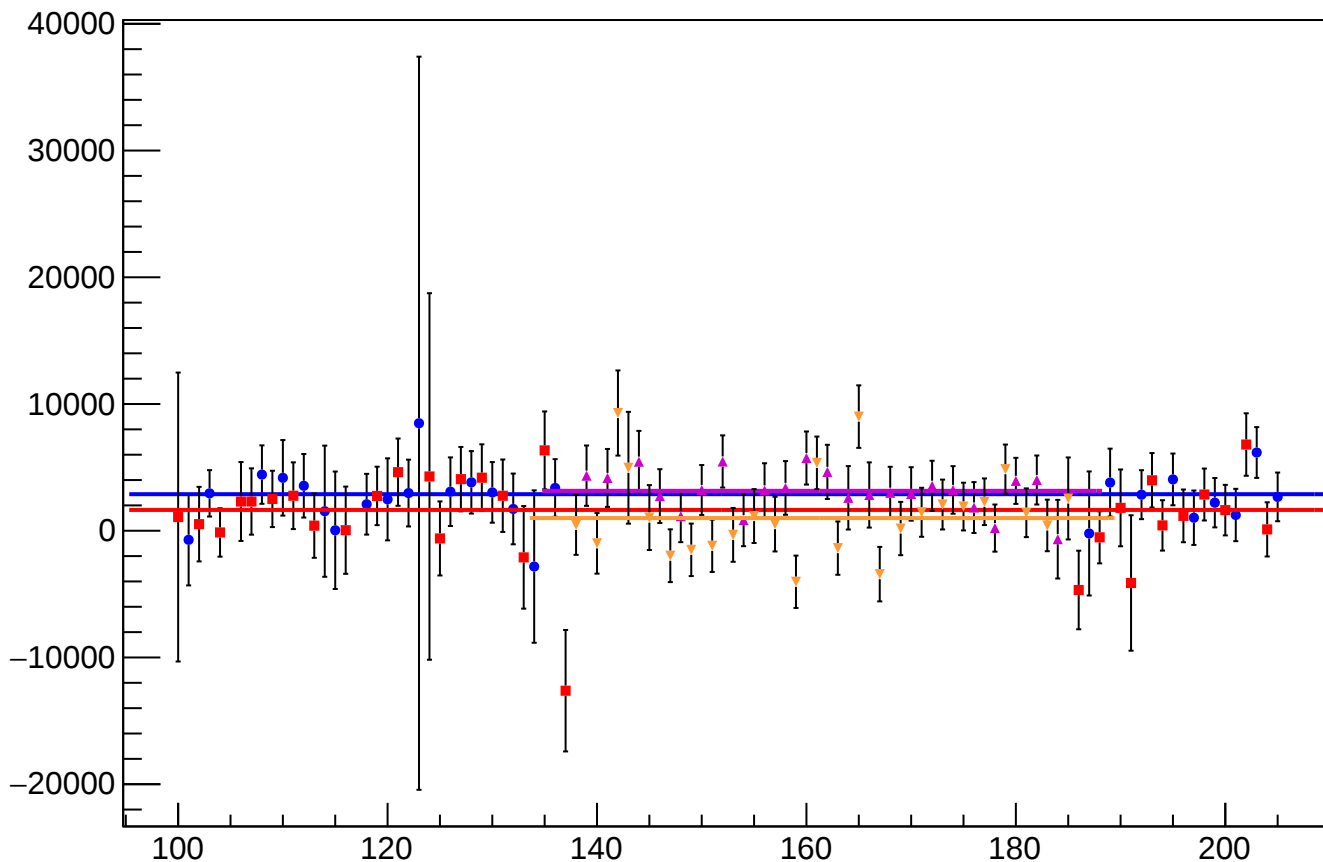
Right: 2117.233+/-0.294 χ^2/NDF : 1927241.4/55

In: 1968.273+/-0.255 χ^2/NDF : 1014500.5/48

Out: 1985.487+/-0.249 χ^2/NDF : 1317036.7/54

All: 1977.083+/-0.178 χ^2/NDF : 2333867.6/100

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2884.992 ± 494.832 $\chi^2/\text{NDF}: 8.6/25$

Left Out: 1001.263 ± 435.247 $\chi^2/\text{NDF}: 44.6/24$

Right Out: 1642.239 ± 478.047 $\chi^2/\text{NDF}: 31.4/29$

Left In: 3150.437 ± 441.145 $\chi^2/\text{NDF}: 11.8/22$

Left: 2061.387 ± 309.830 $\chi^2/\text{NDF}: 68.5/47$

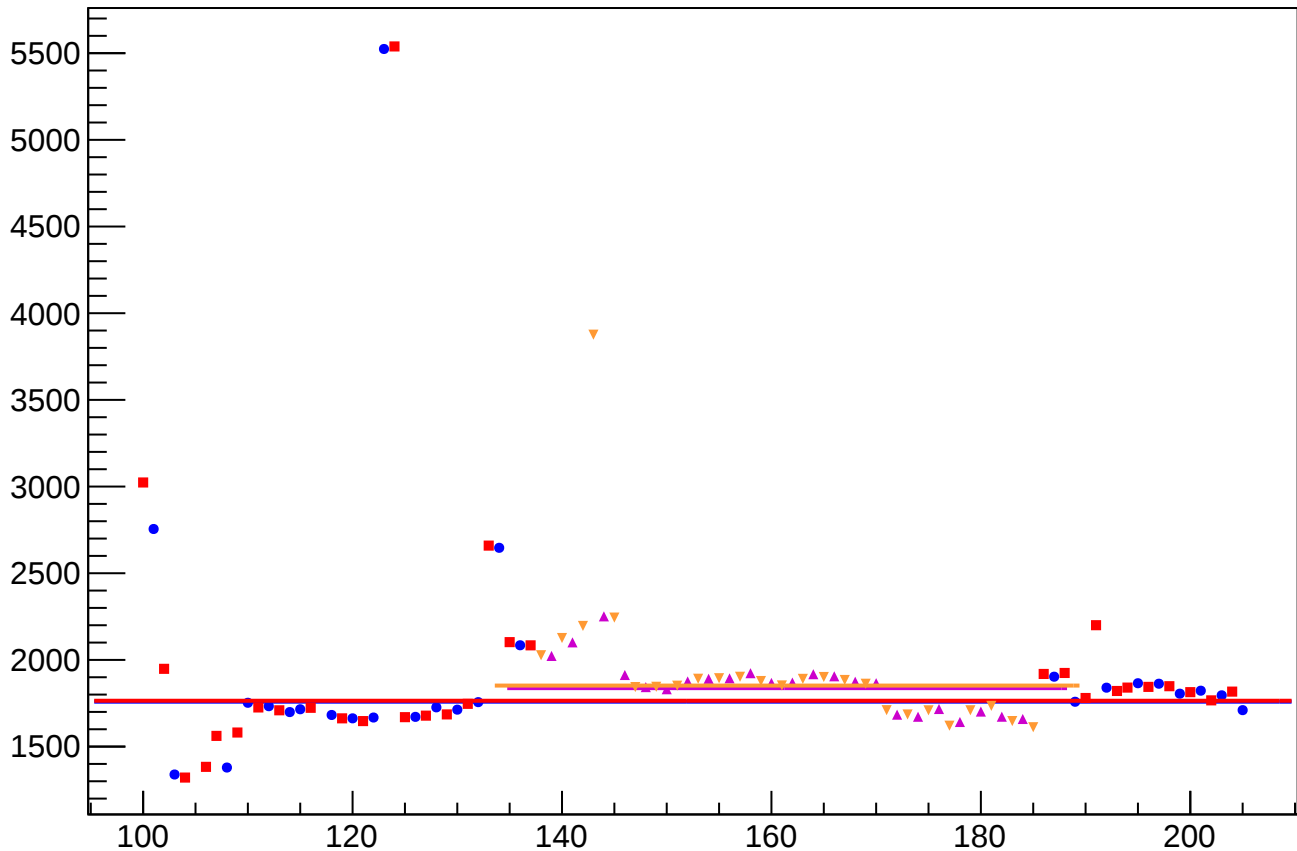
Right: 2242.180 ± 343.811 $\chi^2/\text{NDF}: 43.3/55$

In: 3032.890 ± 329.288 $\chi^2/\text{NDF}: 20.6/48$

Out: 1291.779 ± 321.836 $\chi^2/\text{NDF}: 77.0/54$

All: 2142.410 ± 230.162 $\chi^2/\text{NDF}: 111.9/103$

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1759.146 $\pm$ 0.350 χ^2 /NDF: 461550.5/25

Left Out: 1851.959 $\pm$ 0.308 χ^2 /NDF: 648954.2/24

Right Out: 1764.446 $\pm$ 0.338 χ^2 /NDF: 521805.7/29

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

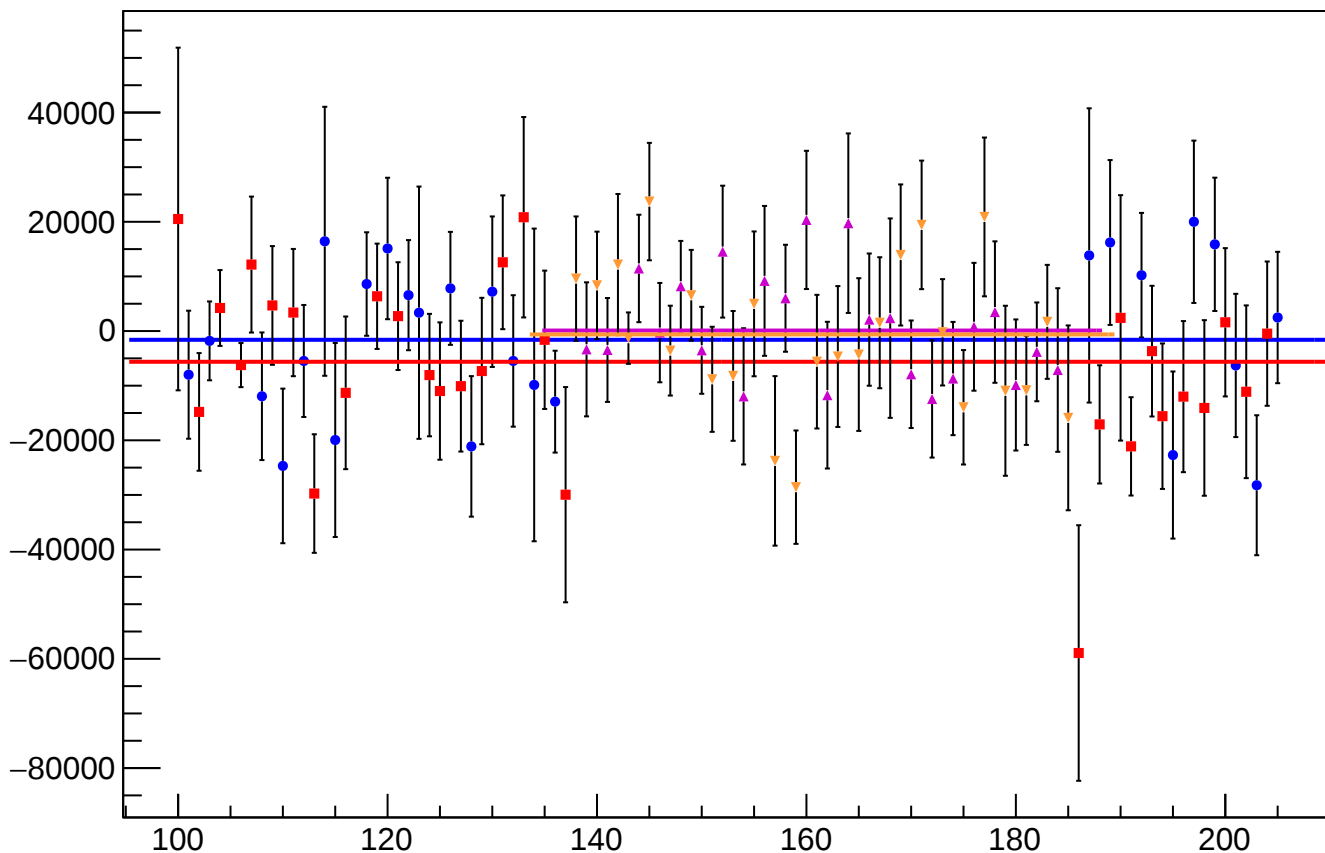
Right: 1761.888 $\pm$ 0.243 χ^2 /NDF: 983474.9/55

In: 1802.608 $\pm$ 0.233 χ^2 /NDF: 689755.6/48

Out: 1812.294 $\pm$ 0.228 χ^2 /NDF: 1207406.3/54

All: 1807.562 $\pm$ 0.163 χ^2 /NDF: 1898046.9/100

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1601.231+/-2424.894 χ^2/NDF : 27.6/25

Left Out: -619.372+/-2069.686 χ^2/NDF :30.1/24

Right Out: -5623.894+/-1977.571 χ^2/NDF : 31.7/29

Left In: 93.334+/-2293.826 χ^2/NDF :14.6/22

Left: -299.532+/-1536.638 χ^2/NDF : 44.8/47

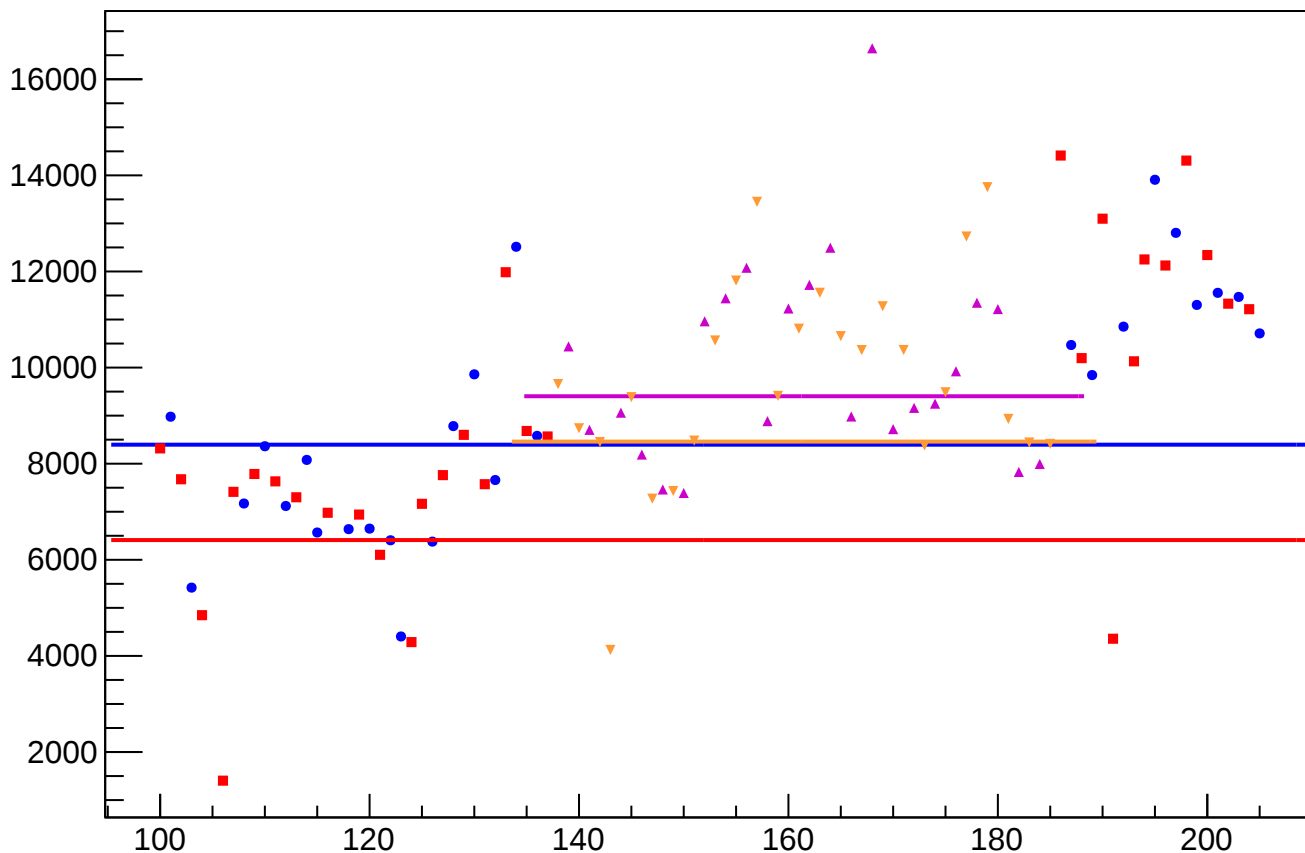
Right: -4017.118+/-1532.546 χ^2/NDF : 61.0/55

In: -706.917+/-1666.389 χ^2/NDF :42.5/48

Out: -3235.477+/-1429.810 χ^2/NDF :64.9/54

All: -2163.281+/-1085.118 χ^2/NDF : 108.8/100

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8395.628+/-1.715

χ^2/NDF : 1790234.1/25

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

Left Out: 8459.960+/-1.463

χ^2/NDF : 3087200.5/24

Right: 7203.612+/-1.084 χ^2/NDF : 9356610.7/55

Right Out: 6410.817+/-1.398

χ^2/NDF : 6761655.1/29

In: 8927.527+/-1.178 χ^2/NDF : 3115216.6/48

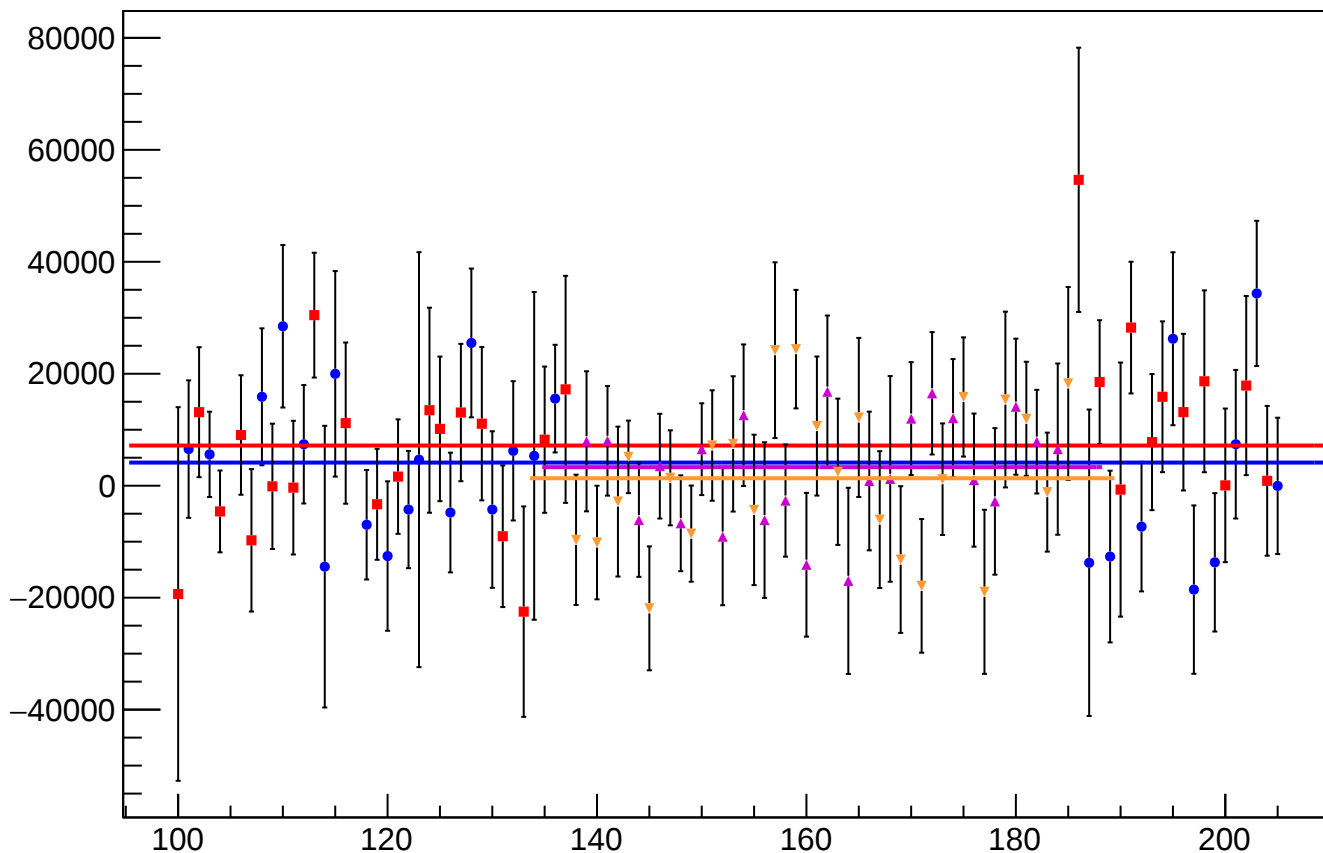
Out: 7388.775+/-1.011 χ^2/NDF : 10873699.9/54

Left In: 9403.481+/-1.622

χ^2/NDF : 1142646.9/22

All: 8041.258+/-0.767 χ^2/NDF : 14971142.7/13

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 4132.484 $\pm$ 2506.178 χ^2 /NDF: 28.4/25

Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF:28.0/24

Right Out: 7176.686 $\pm$ 2337.242 χ^2 /NDF: 27.3/29

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

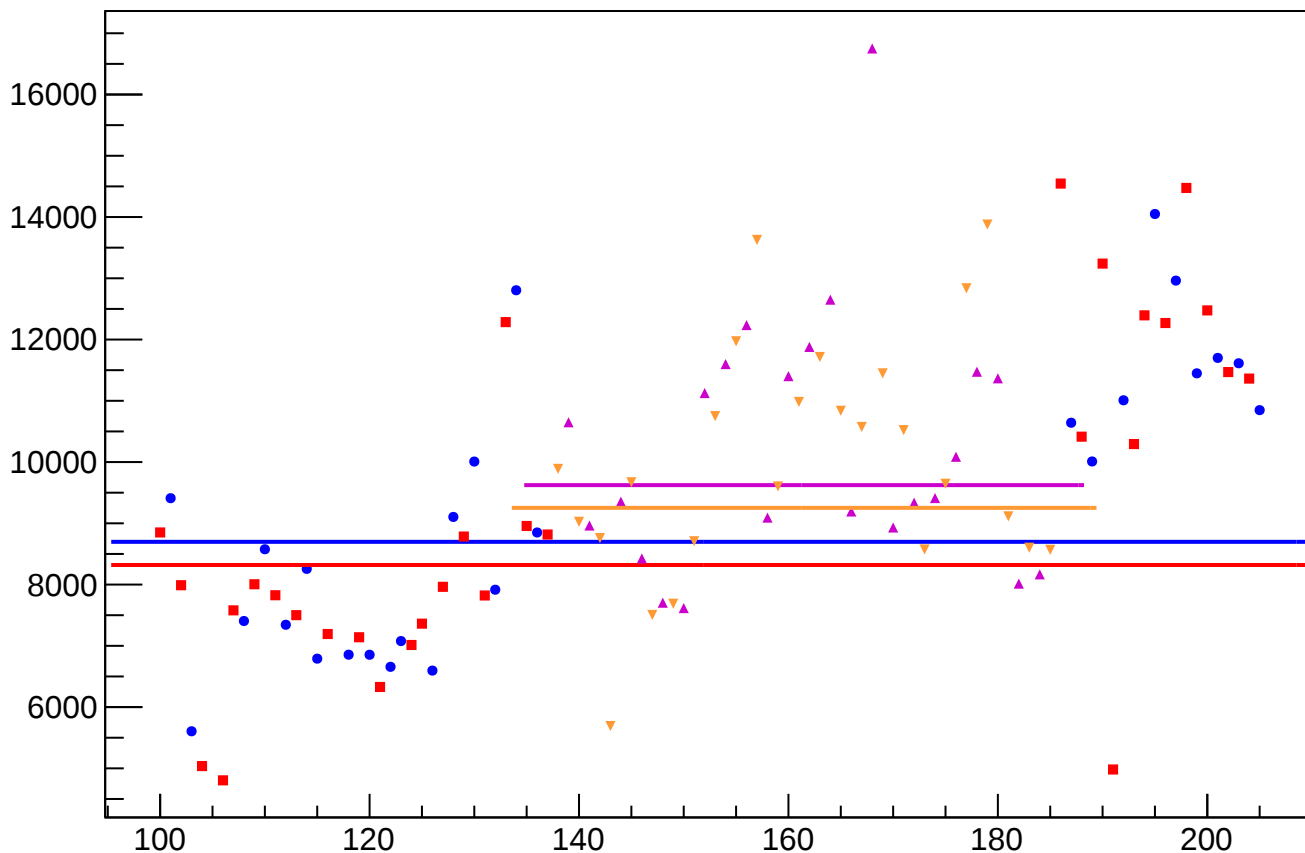
Right: 5760.636 $\pm$ 1709.285 χ^2 /NDF: 56.5/55

In: 3697.550 $\pm$ 1712.134 χ^2 /NDF:42.2/48

Out: 4096.278 $\pm$ 1607.236 χ^2 /NDF:58.6/54

All: 3909.502 $\pm$ 1171.818 χ^2 /NDF: 100.9/103

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 8697.836 $\pm$ 1.772 χ^2 /NDF: 1617007.0/25

Left Out: 9252.712 $\pm$ 1.565 χ^2 /NDF:1597668.9/24

Right Out: 8319.693 $\pm$ 1.653 χ^2 /NDF: 2398477.5/29

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

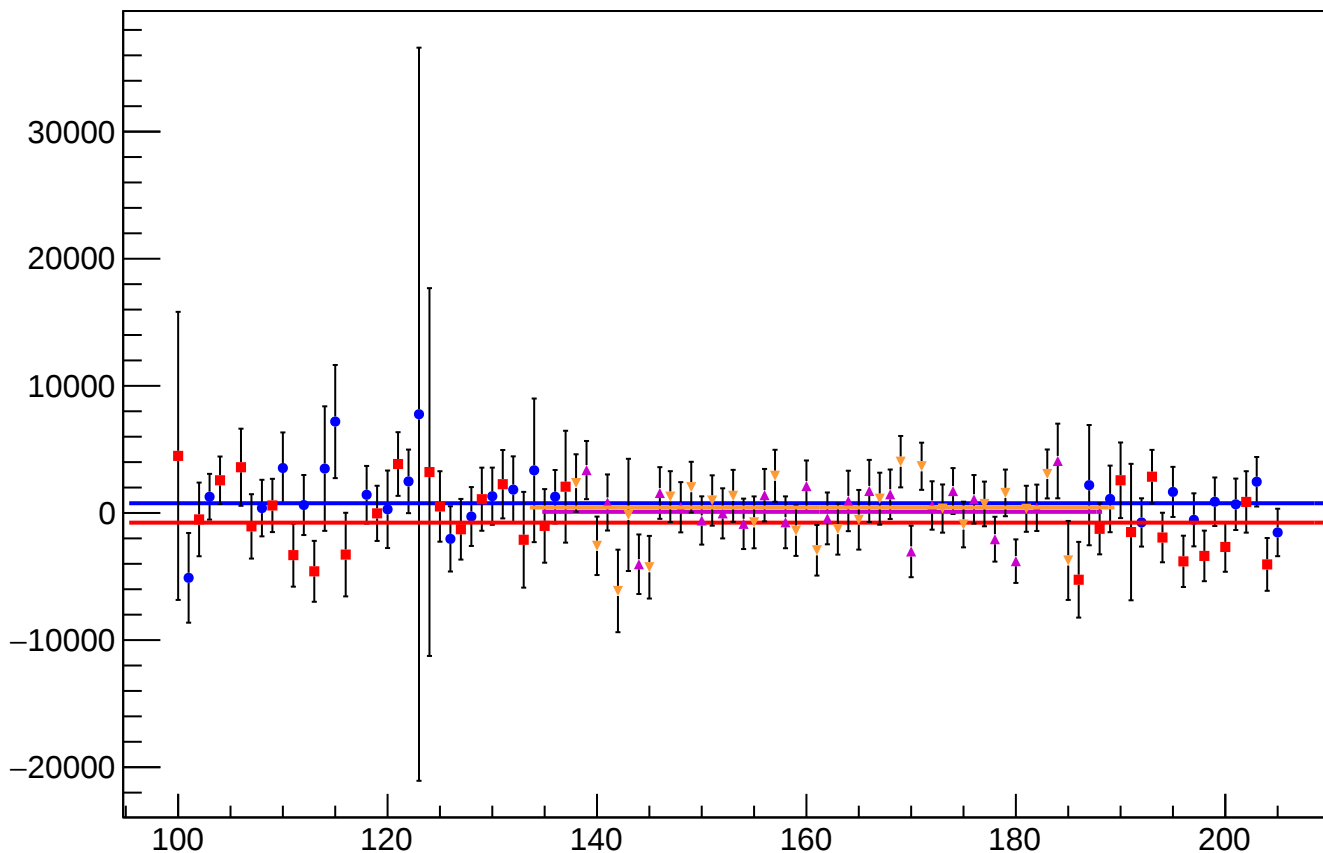
Right: 8495.577 $\pm$ 1.209 χ^2 /NDF: 4039839.4/55

In: 9191.462 $\pm$ 1.211 χ^2 /NDF:2832432.5/48

Out: 8811.462 $\pm$ 1.136 χ^2 /NDF:4164164.1/54

All: 8989.459 $\pm$ 0.829 χ^2 /NDF: 7048969.2/100

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 765.791 ± 475.838 $\chi^2/\text{NDF}: 12.4/25$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -760.967 ± 460.351 $\chi^2/\text{NDF}: 31.1/29$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

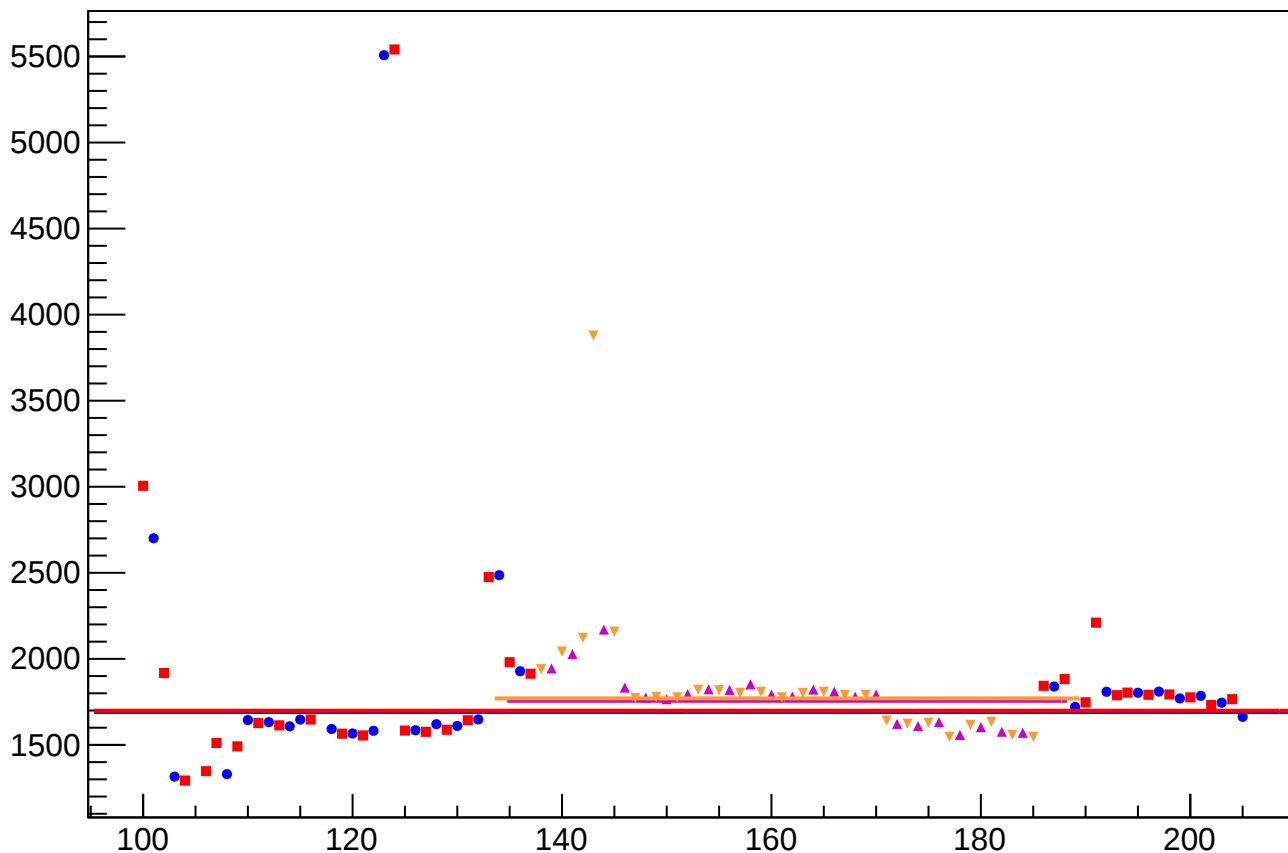
Right: -22.839 ± 330.857 $\chi^2/\text{NDF}: 48.8/55$

In: 386.572 ± 315.707 $\chi^2/\text{NDF}: 34.5/48$

Out: -106.204 ± 308.802 $\chi^2/\text{NDF}: 63.5/54$

All: 134.737 ± 220.757 $\chi^2/\text{NDF}: 99.2/103$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1691.675+/-0.336 χ^2/NDF : 457662.1/25

Left Out: 1770.384+/-0.294 χ^2/NDF : 699536.9/24

Right Out: 1698.802+/-0.326 χ^2/NDF : 535733.6/29

Left In: 1756.623+/-0.298 χ^2/NDF : 223077.6/22

Left: 1763.595+/-0.210 χ^2/NDF : 923692.1/47

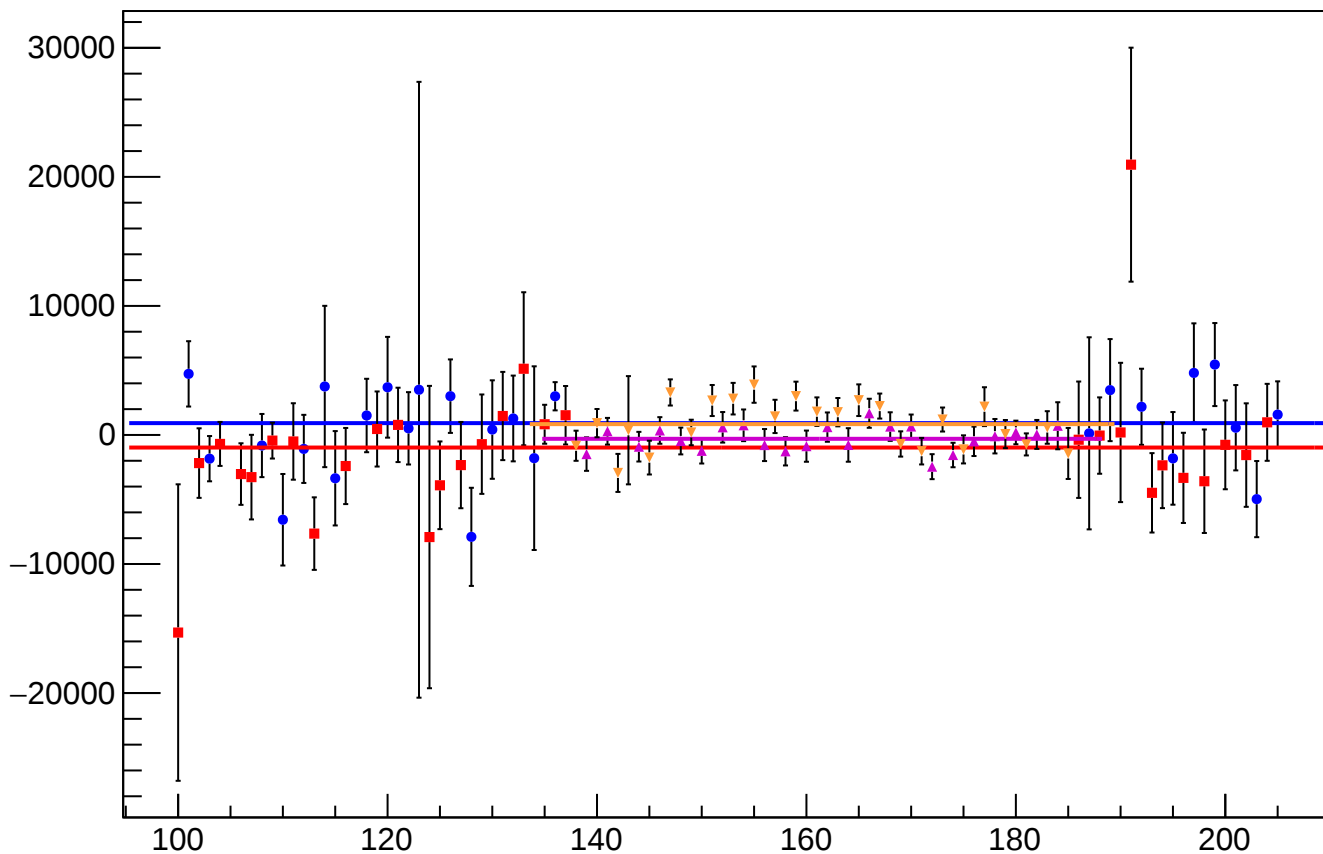
Right: 1695.357+/-0.234 χ^2/NDF : 993627.5/55

In: 1728.033+/-0.223 χ^2/NDF : 701597.9/48

Out: 1738.174+/-0.218 χ^2/NDF : 1261868.0/54

All: 1733.216+/-0.156 χ^2/NDF : 1964520.5/100

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 916.844 ± 551.046 χ^2/NDF : 30.4/25

Left Out: 839.344 ± 230.465 χ^2/NDF : 54.4/24

Right Out: -975.335 ± 521.457 χ^2/NDF : 24.0/29

Left In: -298.801 ± 231.400 χ^2/NDF : 18.3/22

Left: 272.574 ± 163.293 χ^2/NDF : 84.9/47

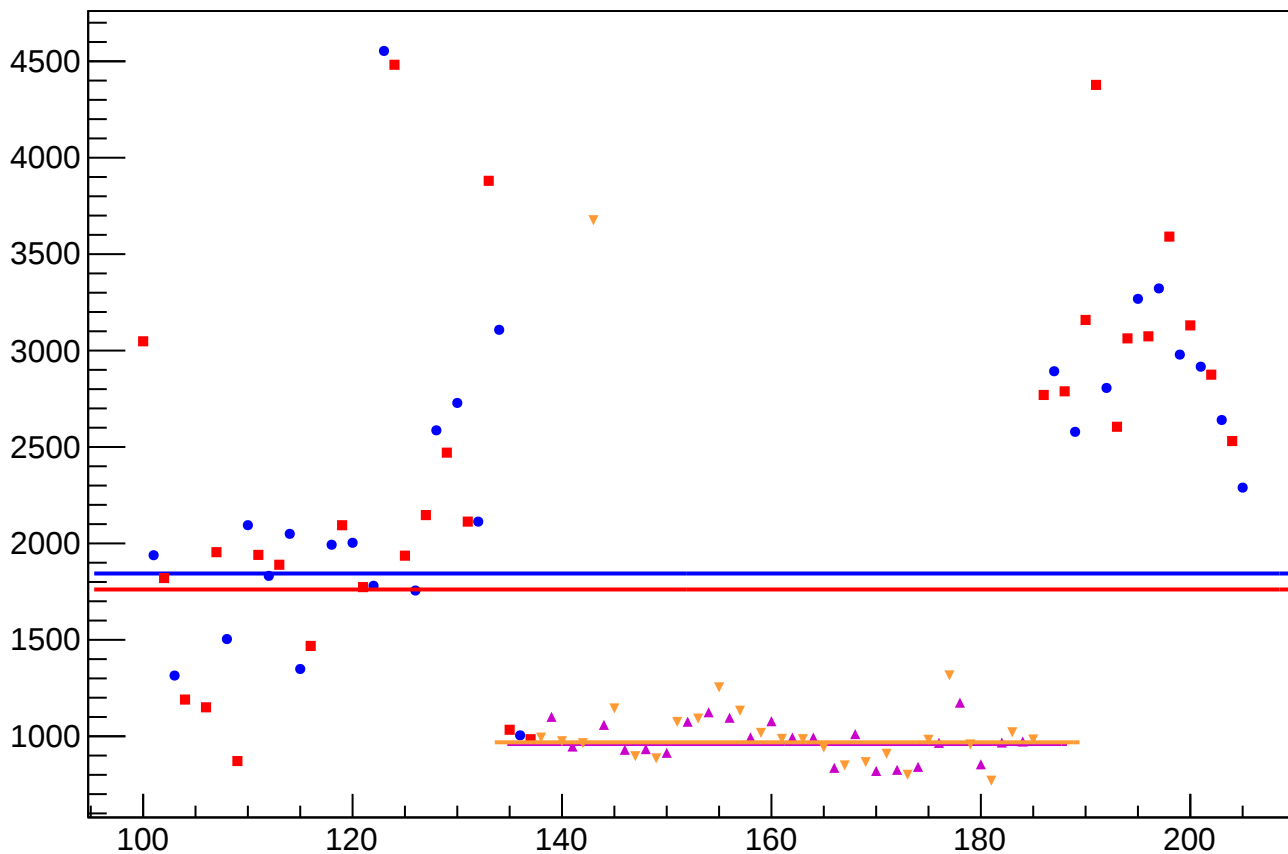
Right: -81.409 ± 378.755 χ^2/NDF : 60.6/55

In: -116.570 ± 213.352 χ^2/NDF : 52.9/48

Out: 542.803 ± 210.795 χ^2/NDF : 88.5/54

All: 217.091 ± 149.950 χ^2/NDF : 146.2/103

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1843.980 $\pm$ 0.390 χ^2 /NDF: 3345061.8/25

Left Out: 968.712 $\pm$ 0.163 χ^2 /NDF: 1393696.6/24

Right Out: 1761.107 $\pm$ 0.369 χ^2 /NDF: 4851460.7/29

Left In: 959.805 $\pm$ 0.164 χ^2 /NDF: 371210.5/22

Left: 964.276 $\pm$ 0.115 χ^2 /NDF: 1766394.7/47

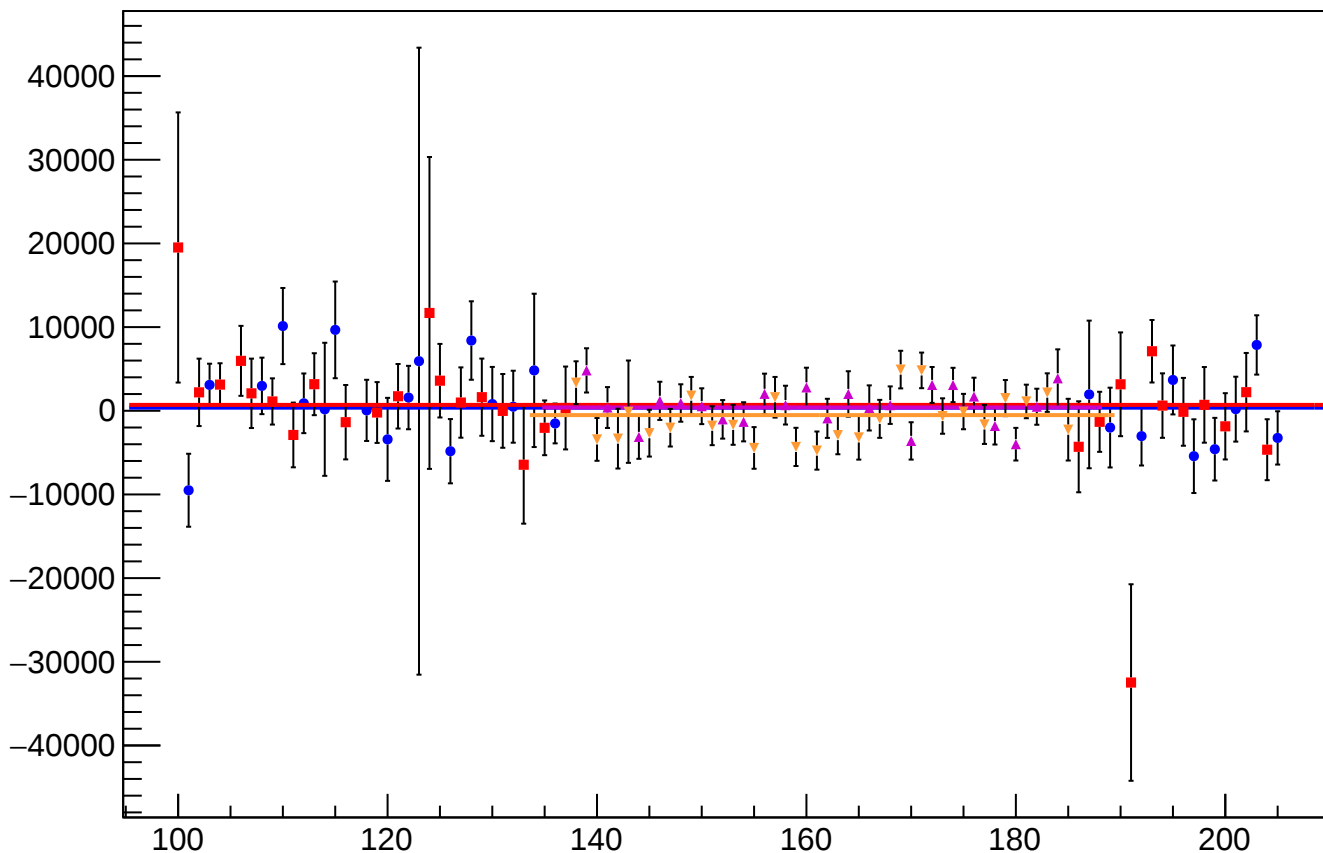
Right: 1800.259 $\pm$ 0.268 χ^2 /NDF: 8220387.3/55

In: 1092.347 $\pm$ 0.151 χ^2 /NDF: 8093485.1/48

Out: 1098.199 $\pm$ 0.149 χ^2 /NDF: 10108715.8/54

All: 1095.308 $\pm$ 0.106 χ^2 /NDF: 18202962.3/100

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 372.489 $\pm$ 784.216 χ^2 /NDF: 31.6/25

Left Out: -517.719 $\pm$ 481.486 χ^2 /NDF:34.0/24

Right Out: 703.092 $\pm$ 757.823 χ^2 /NDF: 23.4/29

Left In: 397.398 $\pm$ 485.048 χ^2 /NDF:21.8/22

Left: -63.533 $\pm$ 341.714 χ^2 /NDF: 57.7/47

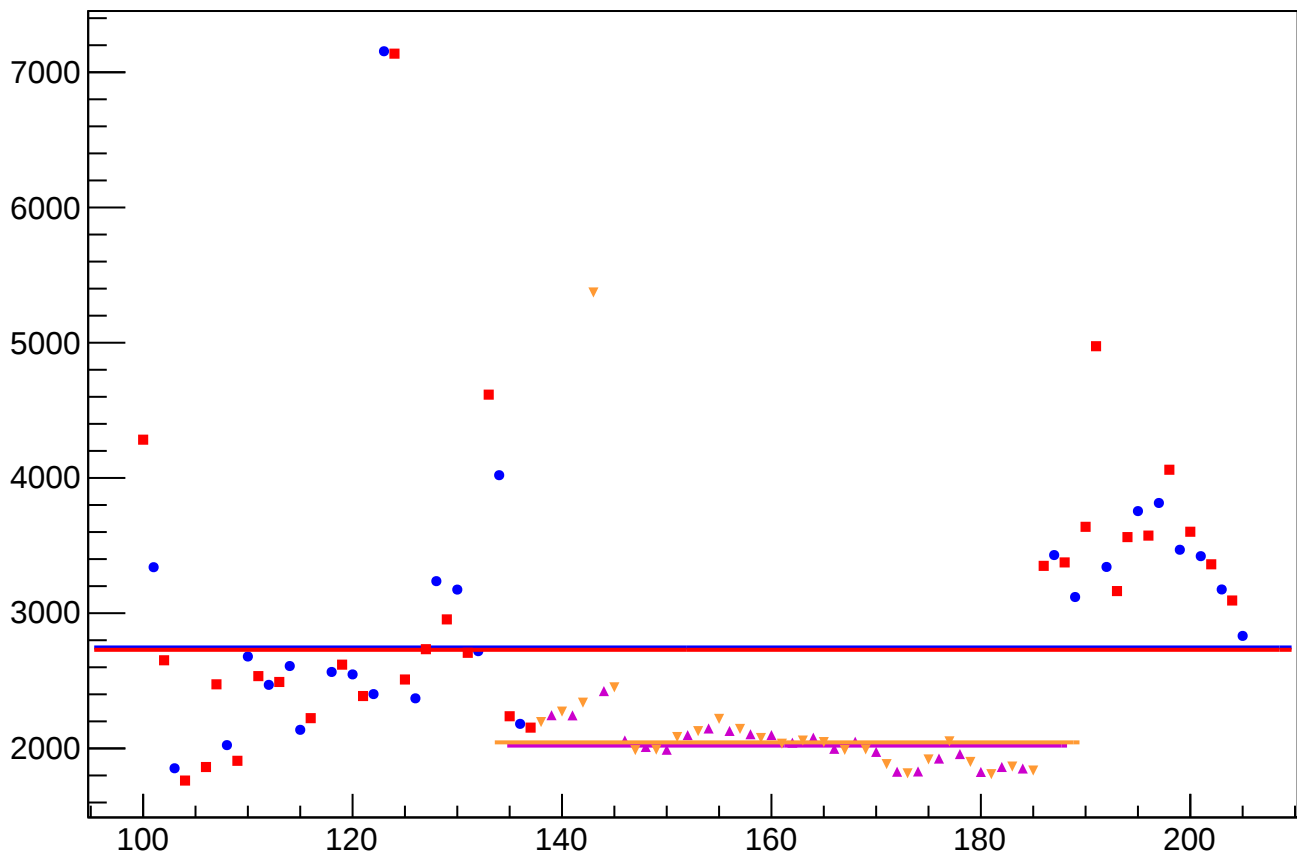
Right: 543.447 $\pm$ 544.953 χ^2 /NDF: 55.0/55

In: 390.506 $\pm$ 412.518 χ^2 /NDF:53.4/48

Out: -166.633 $\pm$ 406.397 χ^2 /NDF:59.2/54

All: 107.772 $\pm$ 289.506 χ^2 /NDF: 113.5/103

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2746.509 $\pm$ 0.555 χ^2 /NDF: 1161550.5/25

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2729.096 $\pm$ 0.536 χ^2 /NDF: 1712388.0/29

Left In: 2020.802 $\pm$ 0.343 χ^2 /NDF: 173502.0/22

Left: 2032.850 $\pm$ 0.242 χ^2 /NDF: 964655.5/47

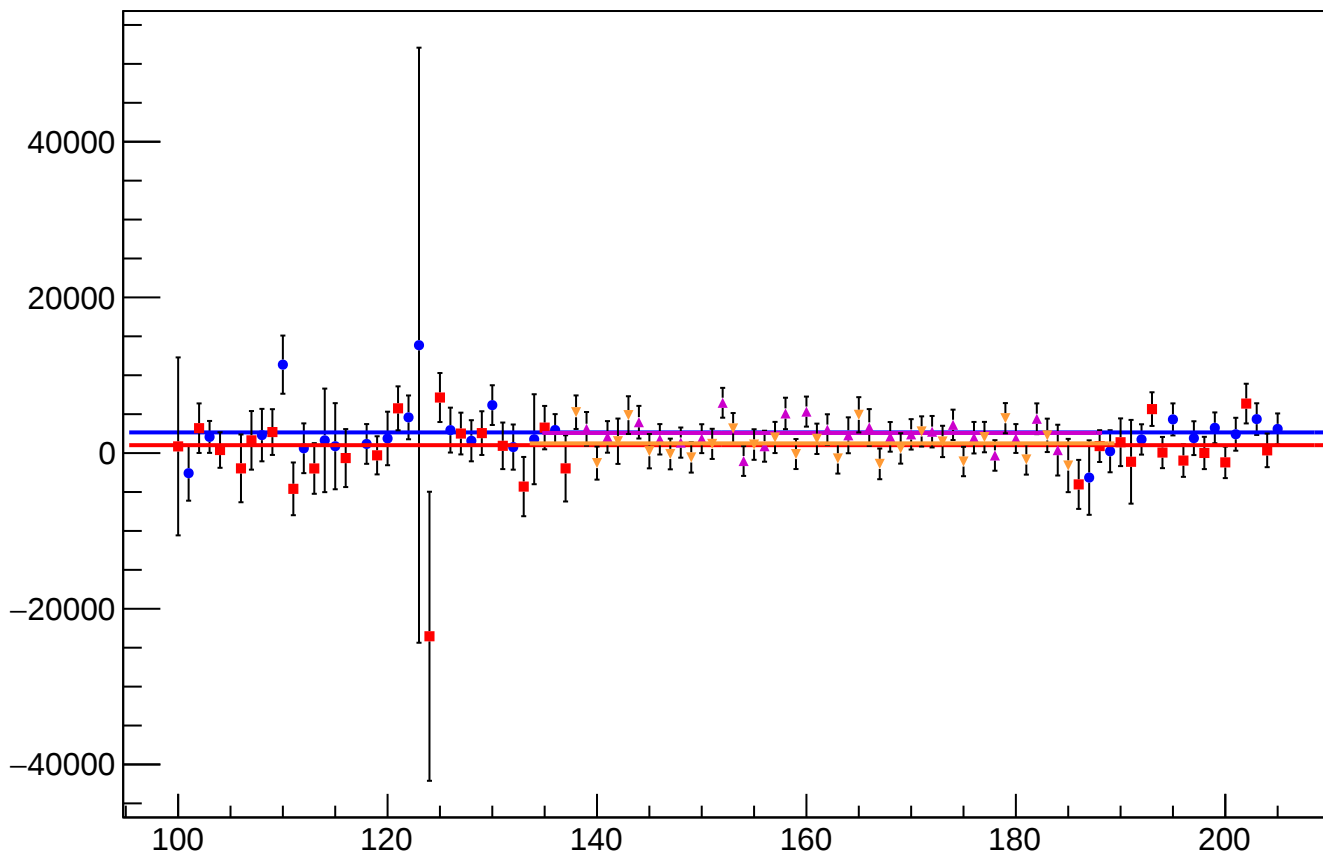
Right: 2737.504 $\pm$ 0.385 χ^2 /NDF: 2874448.4/55

In: 2221.607 $\pm$ 0.292 χ^2 /NDF: 2573845.7/48

Out: 2241.539 $\pm$ 0.287 χ^2 /NDF: 3663119.9/54

All: 2231.722 $\pm$ 0.205 χ^2 /NDF: 6239334.9/100

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2656.776 $\pm$ 522.171 χ^2 /NDF: 15.8/25

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF:23.0/24

Right Out: 1017.299 $\pm$ 510.622 χ^2 /NDF: 31.9/29

Left In: 2586.937 $\pm$ 421.510 χ^2 /NDF:17.5/22

Left: 1903.961 $\pm$ 294.810 χ^2 /NDF: 45.6/47

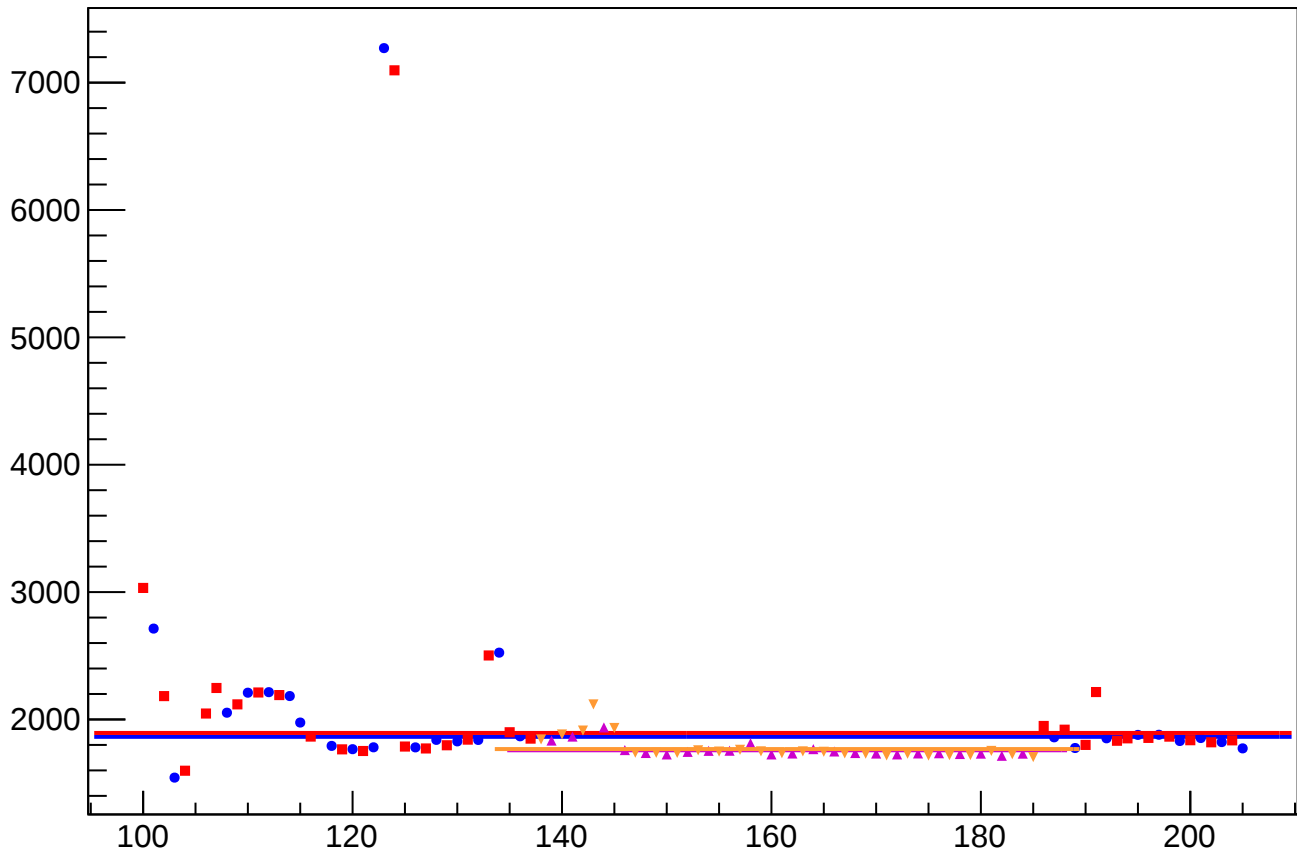
Right: 1818.706 $\pm$ 365.079 χ^2 /NDF: 52.7/55

In: 2614.491 $\pm$ 327.985 χ^2 /NDF:33.3/48

Out: 1158.061 $\pm$ 320.871 χ^2 /NDF:55.0/54

All: 1870.310 $\pm$ 229.364 χ^2 /NDF: 98.4/103

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1863.663+/-0.369 χ^2/NDF : 298677.7/25

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1894.086+/-0.361 χ^2/NDF : 382978.5/29

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

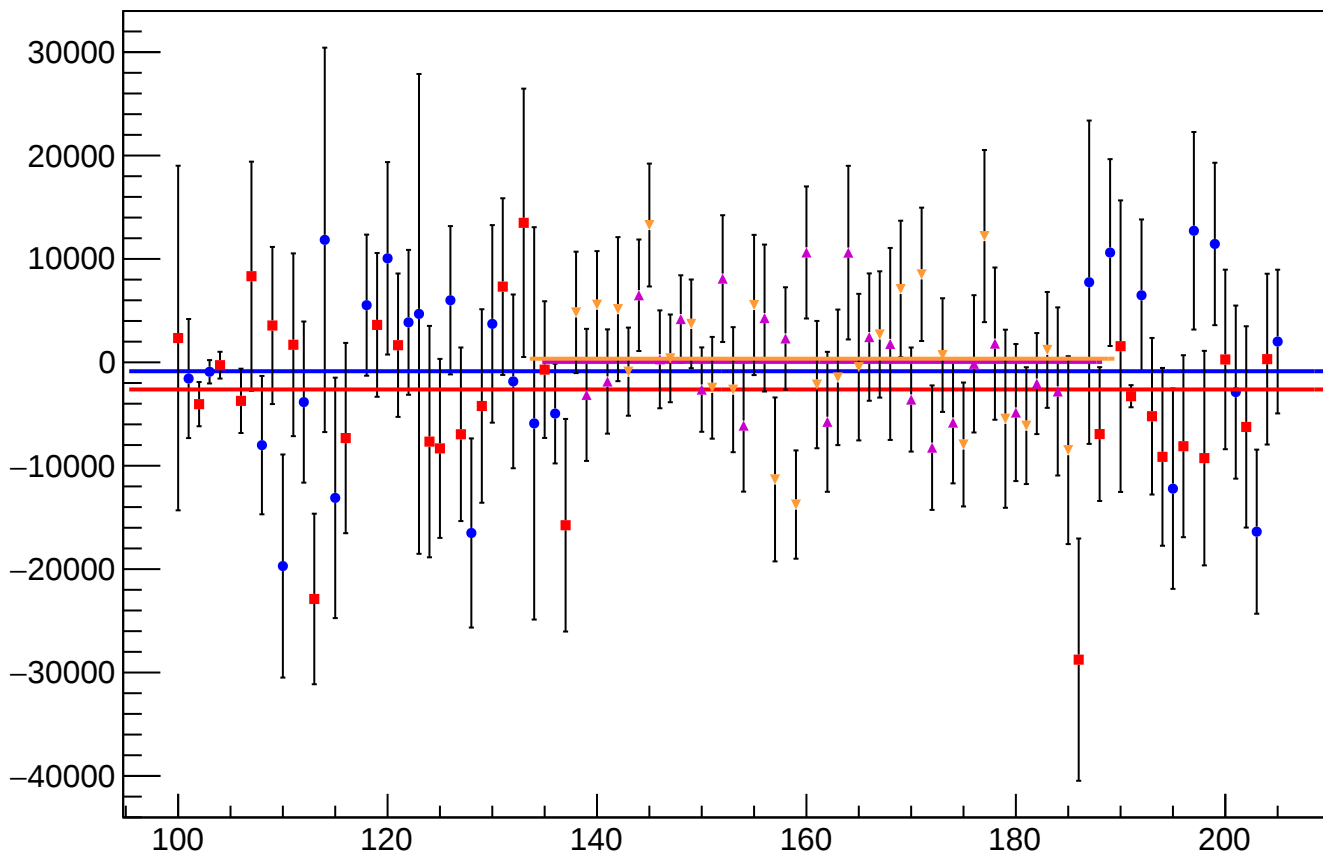
Right: 1879.226+/-0.258 χ^2/NDF : 685129.0/55

In: 1799.734+/-0.232 χ^2/NDF : 377996.7/48

Out: 1817.541+/-0.227 χ^2/NDF : 535079.1/54

All: 1808.835+/-0.162 χ^2/NDF : 916089.1/103

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -860.628+/-930.980 χ^2/NDF : 26.4/25

Left Out: 351.227+/-1170.051 χ^2/NDF :27.8/24

Right Out: -2623.658+/-685.508 χ^2/NDF : 26.6/29

Left In: 40.618+/-1207.491 χ^2/NDF :16.0/22

Left: 200.813+/-840.276 χ^2/NDF : 43.9/47

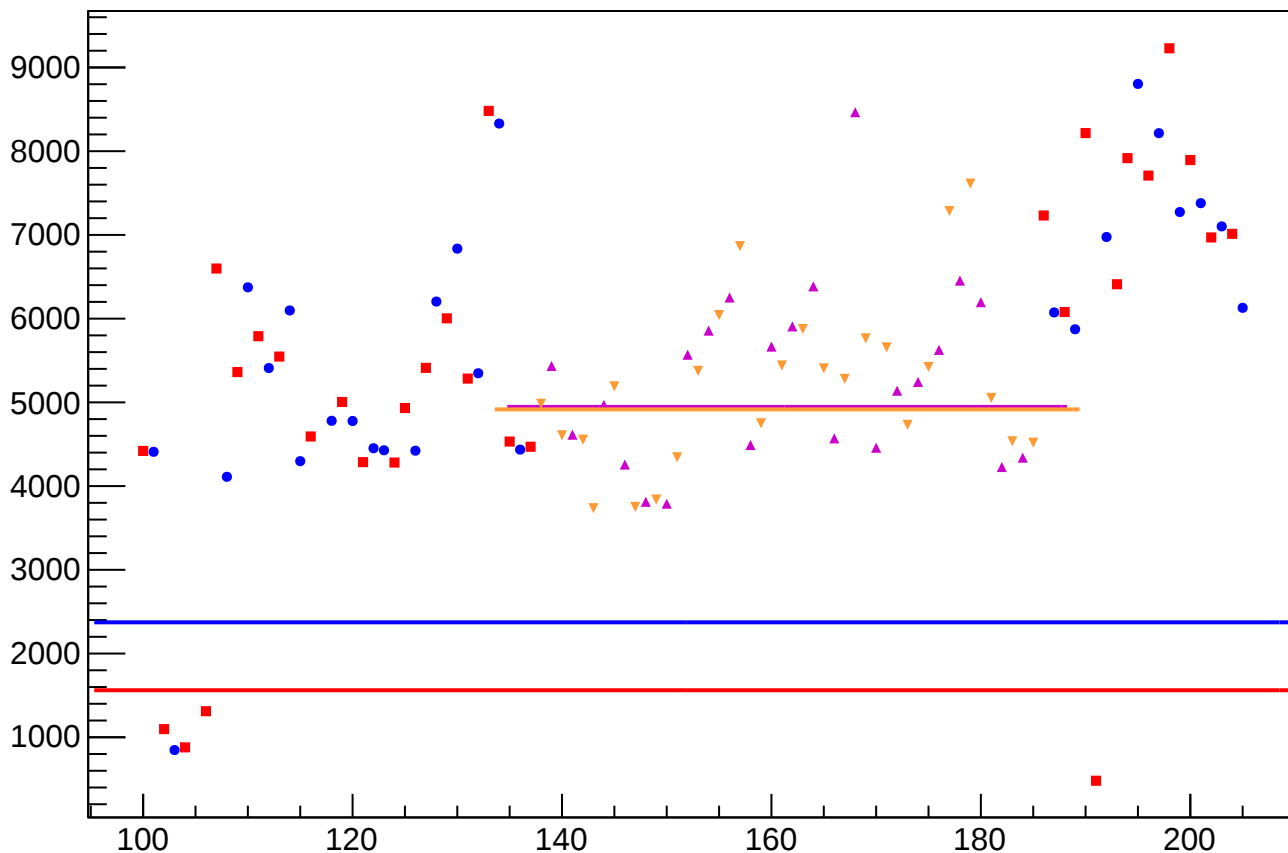
Right: -2003.833+/-552.007 χ^2/NDF : 55.3/55

In: -524.623+/-737.285 χ^2/NDF :42.8/48

Out: -1863.459+/-591.471 χ^2/NDF :59.2/54

All: -1339.212+/-461.359 χ^2/NDF : 104.0/103

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2372.983 $\pm$ 0.658

χ^2 /NDF: 12708549.3/25

Left: 4930.370 $\pm$ 0.594

χ^2 /NDF: 2375402.9/47

Left Out: 4915.865 $\pm$ 0.827

χ^2 /NDF: 1186479.7/24

Right: 1846.921 $\pm$ 0.390

χ^2 /NDF: 30537594.5/55

Right Out: 1561.700 $\pm$ 0.485

χ^2 /NDF: 16844222.5/29

In: 3332.194 $\pm$ 0.521

χ^2 /NDF: 19591602.8/48

Out: 2418.821 $\pm$ 0.418

χ^2 /NDF: 30266456.9/54

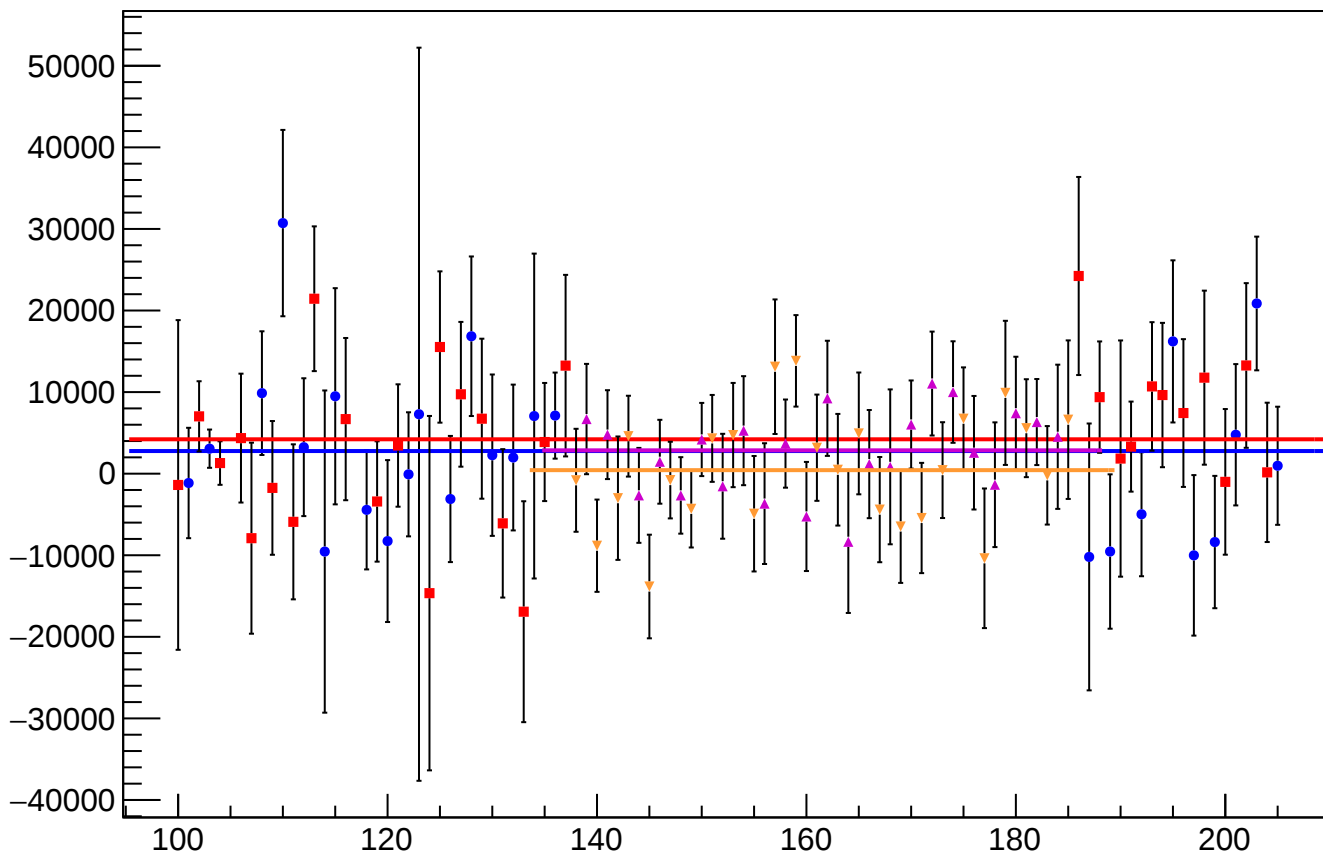
Left In: 4945.817 $\pm$ 0.854

χ^2 /NDF: 1188288.6/22

All: 2776.469 $\pm$ 0.326

χ^2 /NDF: 51725590.1/13

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2773.656+/-1412.375 χ^2/NDF : 27.4/25

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 4213.981+/-1362.716 χ^2/NDF : 22.8/29

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

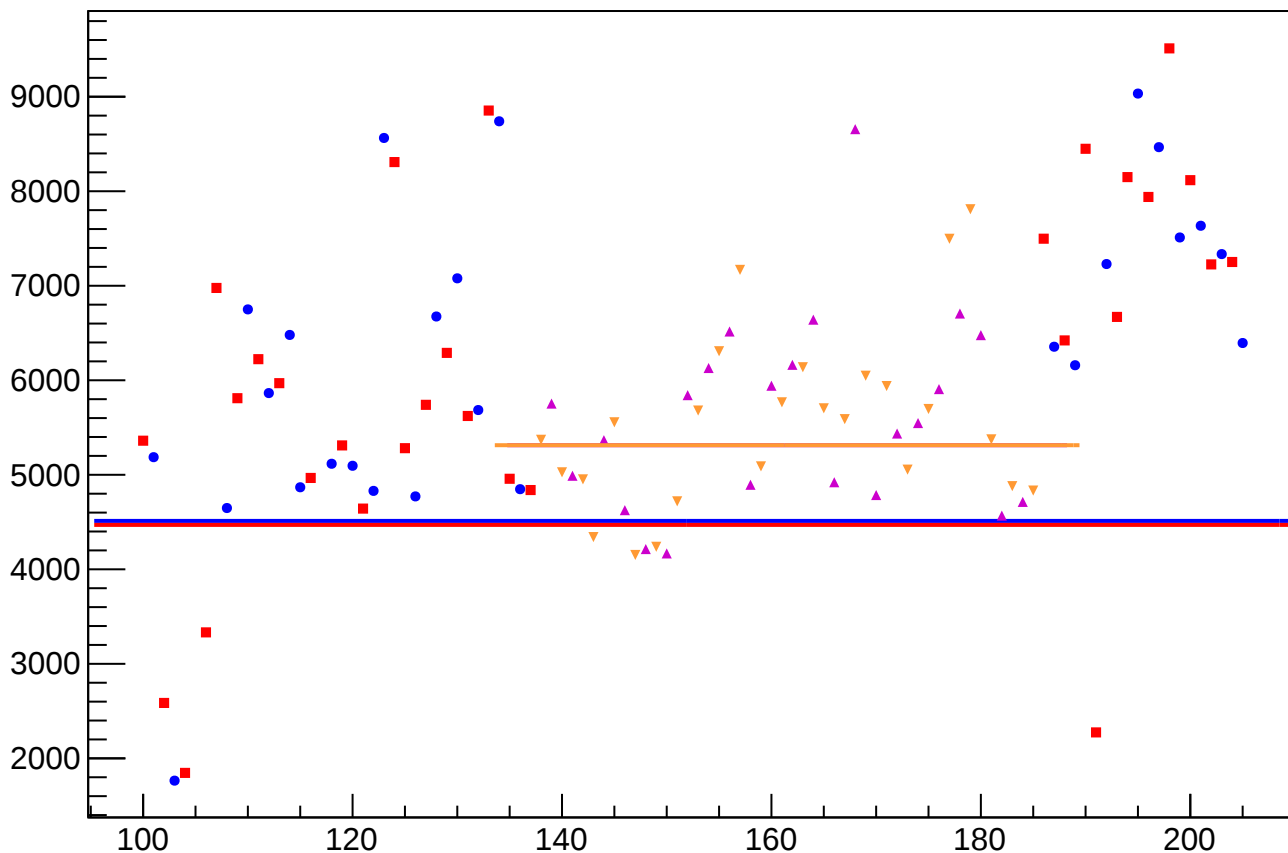
Right: 3519.584+/-980.672 χ^2/NDF : 50.7/55

In: 2820.790+/-953.435 χ^2/NDF : 40.2/48

Out: 2171.907+/-924.455 χ^2/NDF : 54.1/54

All: 2486.337+/-663.697 χ^2/NDF : 94.6/103

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4512.121 ± 0.999 $\chi^2/\text{NDF}: 5308869.1/25$

Left Out: 5313.008 ± 0.890 $\chi^2/\text{NDF}: 894369.8/24$

Right Out: 4469.970 ± 0.959 $\chi^2/\text{NDF}: 5812316.9/29$

Left In: 5312.861 ± 0.914 $\chi^2/\text{NDF}: 957400.7/22$

Left: 5312.937 ± 0.637 $\chi^2/\text{NDF}: 1851770.5/47$

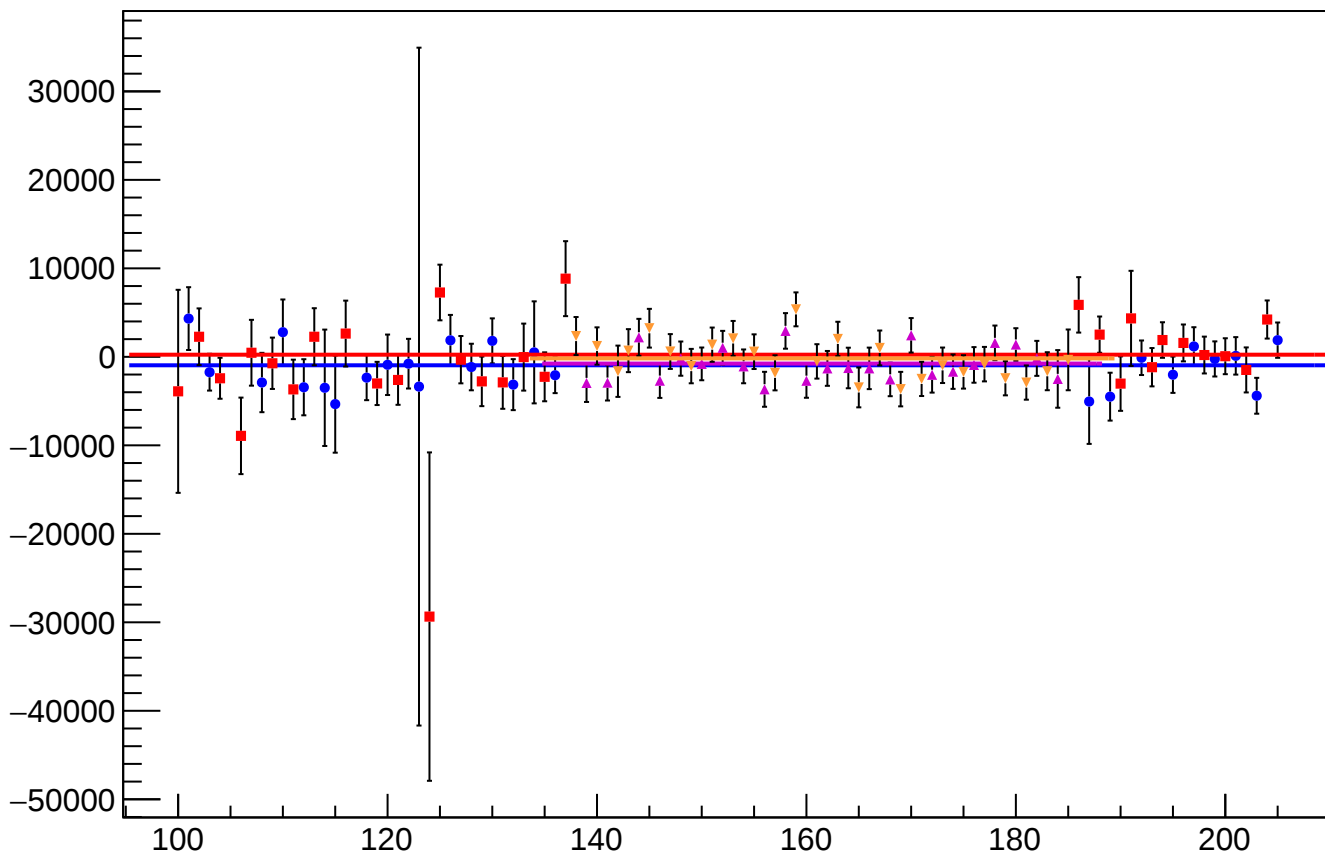
Right: 4490.191 ± 0.692 $\chi^2/\text{NDF}: 11122112.8/55$

In: 4947.962 ± 0.674 $\chi^2/\text{NDF}: 6616173.7/48$

Out: 4923.016 ± 0.652 $\chi^2/\text{NDF}: 7122006.9/54$

All: 4935.076 ± 0.469 $\chi^2/\text{NDF}: 13738887.8/109$

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -954.481+/-521.519 χ^2/NDF : 17.7/25

Left Out: -179.794+/-410.976 χ^2/NDF : 29.3/24

Right Out: 242.811+/-510.079 χ^2/NDF : 37.8/29

Left In: -759.753+/-419.905 χ^2/NDF : 20.3/22

Left: -463.542+/-293.710 χ^2/NDF : 50.5/47

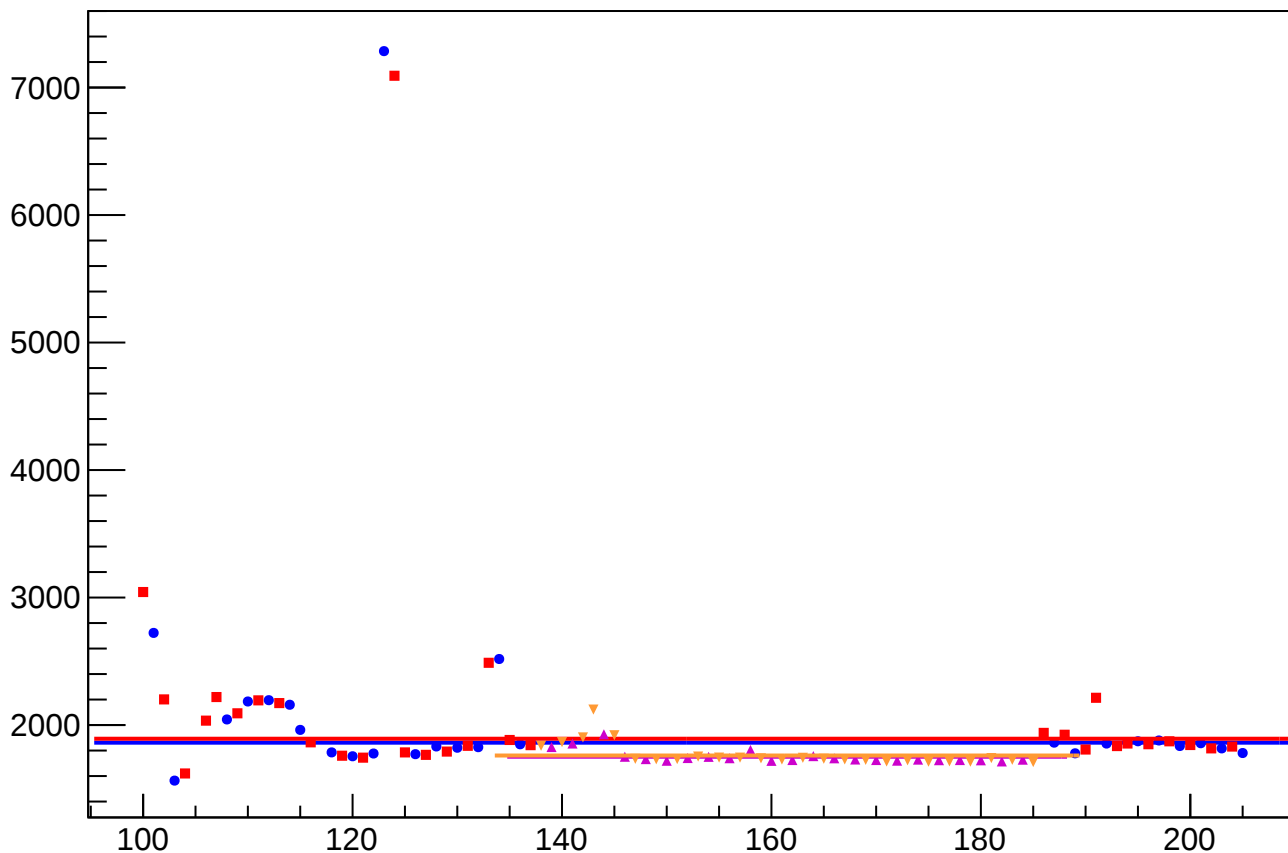
Right: -342.560+/-364.658 χ^2/NDF : 58.2/55

In: -836.341+/-327.066 χ^2/NDF : 38.1/48

Out: -13.442+/-320.025 χ^2/NDF : 67.5/54

All: -415.939+/-228.741 χ^2/NDF : 108.7/103

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1861.763 $\pm$ 0.369 χ^2/NDF : 288230.9/25

Left Out: 1761.091 $\pm$ 0.291 χ^2/NDF : 77468.5/24

Right Out: 1892.729 $\pm$ 0.360 χ^2/NDF : 370626.0/29

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

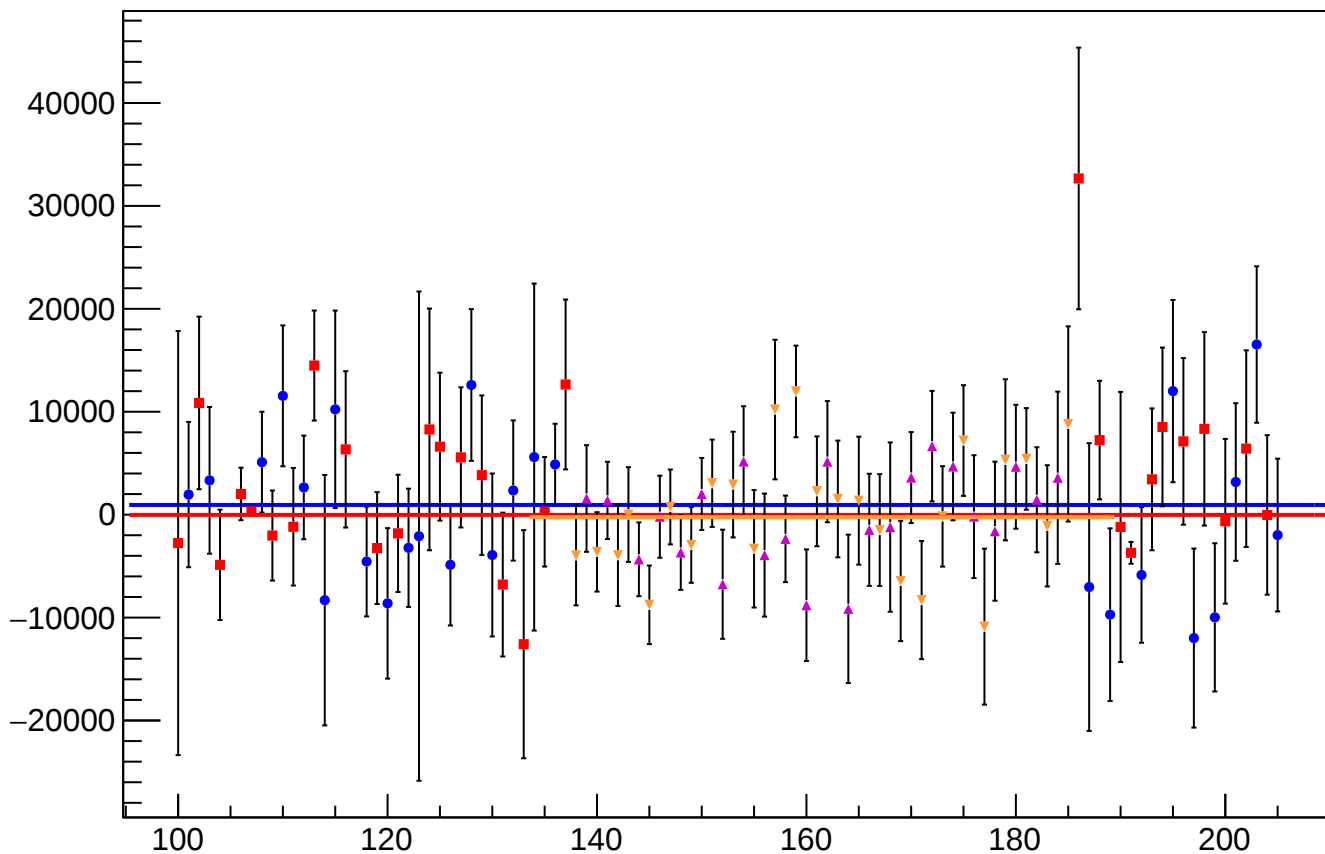
Right: 1877.601 $\pm$ 0.258 χ^2/NDF : 662463.3/55

In: 1794.817 $\pm$ 0.231 χ^2/NDF : 371130.5/48

Out: 1812.955 $\pm$ 0.226 χ^2/NDF : 528939.0/54

All: 1804.086 $\pm$ 0.162 χ^2/NDF : 903212.8/103

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 944.936 ± 1363.287 χ^2/NDF : 26.7/25

Left Out: -235.806 ± 1005.144 χ^2/NDF : 28.9/24

Right Out: -21.922 ± 411.804 χ^2/NDF : 43.1/29

Left In: -239.224 ± 1028.883 χ^2/NDF : 15.3/22

Left: -237.475 ± 718.990 χ^2/NDF : 44.2/47

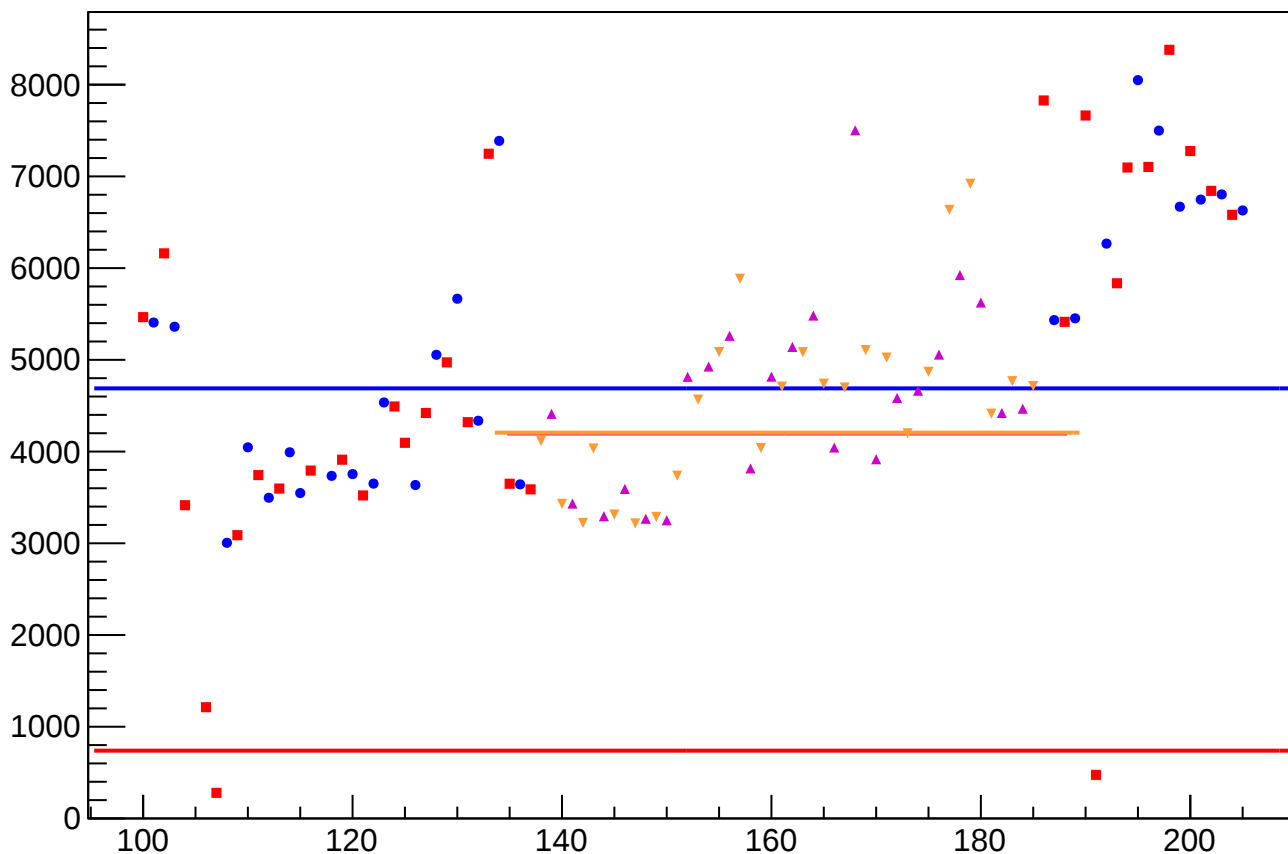
Right: 58.921 ± 394.212 χ^2/NDF : 70.2/55

In: 190.494 ± 821.247 χ^2/NDF : 42.5/48

Out: -52.663 ± 381.063 χ^2/NDF : 72.0/54

All: -9.586 ± 345.664 χ^2/NDF : 114.6/103

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4688.987+/-0.964 χ^2/NDF : 2118912.8/25

Left Out: 4206.076+/-0.711 χ^2/NDF :1442269.3/24

Right Out: 739.208+/-0.291 χ^2/NDF : 21306475.3/29

Left In: 4197.267+/-0.728 χ^2/NDF :1471012.9/22

Left: 4201.775+/-0.508 χ^2/NDF : 2913357.2/47

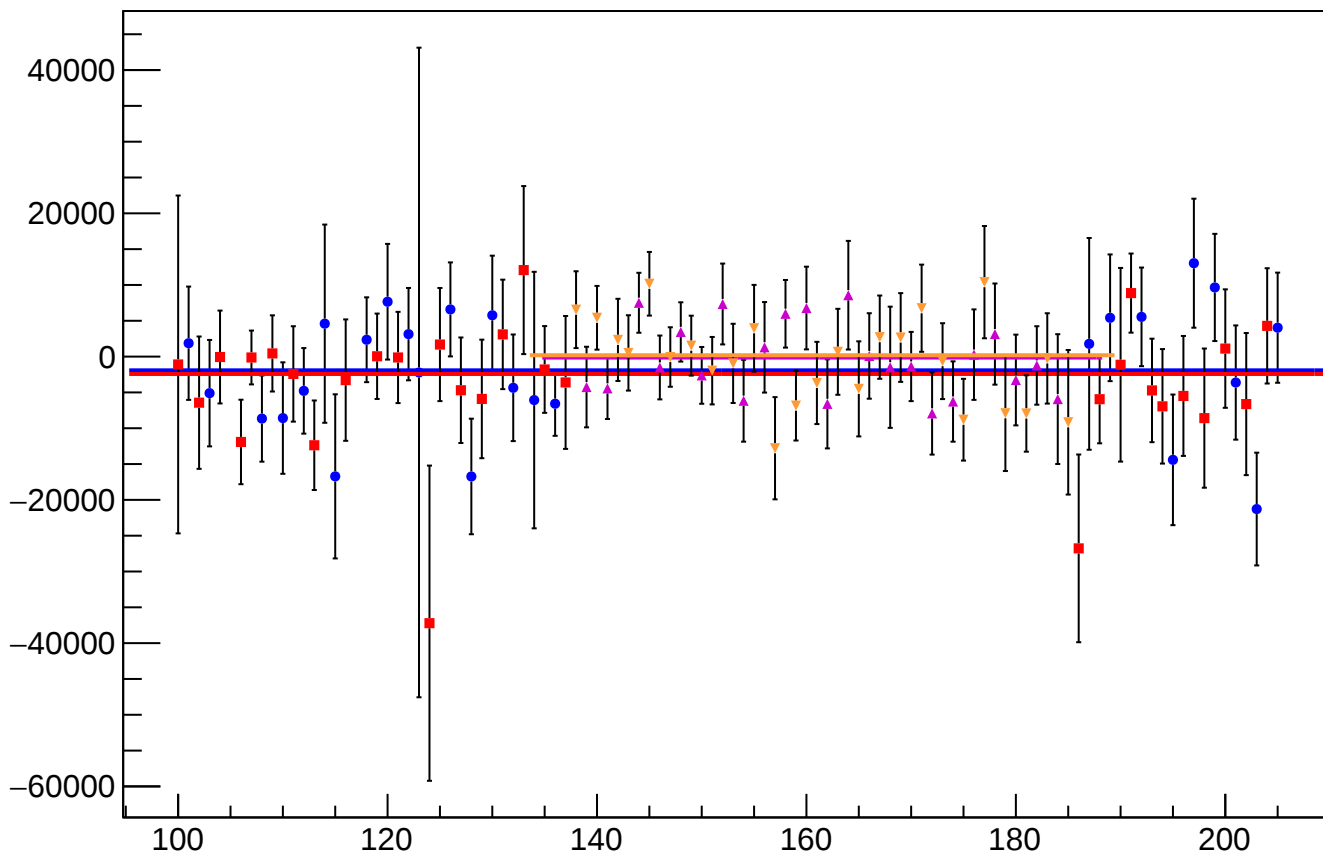
Right: 1069.468+/-0.279 χ^2/NDF : 38809740.6/55

In: 4375.707+/-0.581 χ^2/NDF :3755695.8/48

Out: 1237.489+/-0.269 χ^2/NDF :43122026.5/54

All: 1793.450+/-0.244 χ^2/NDF : 70908336.2/100

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1918.354 ± 1505.664 χ^2/NDF : 29.9/25

Left Out: 189.721 ± 1106.851 χ^2/NDF : 25.0/24

Right Out: -2425.948 ± 1322.223 χ^2/NDF : 21.5/29

Left In: -137.477 ± 1129.656 χ^2/NDF : 18.6/22

Left: 29.458 ± 790.601 χ^2/NDF : 43.6/47

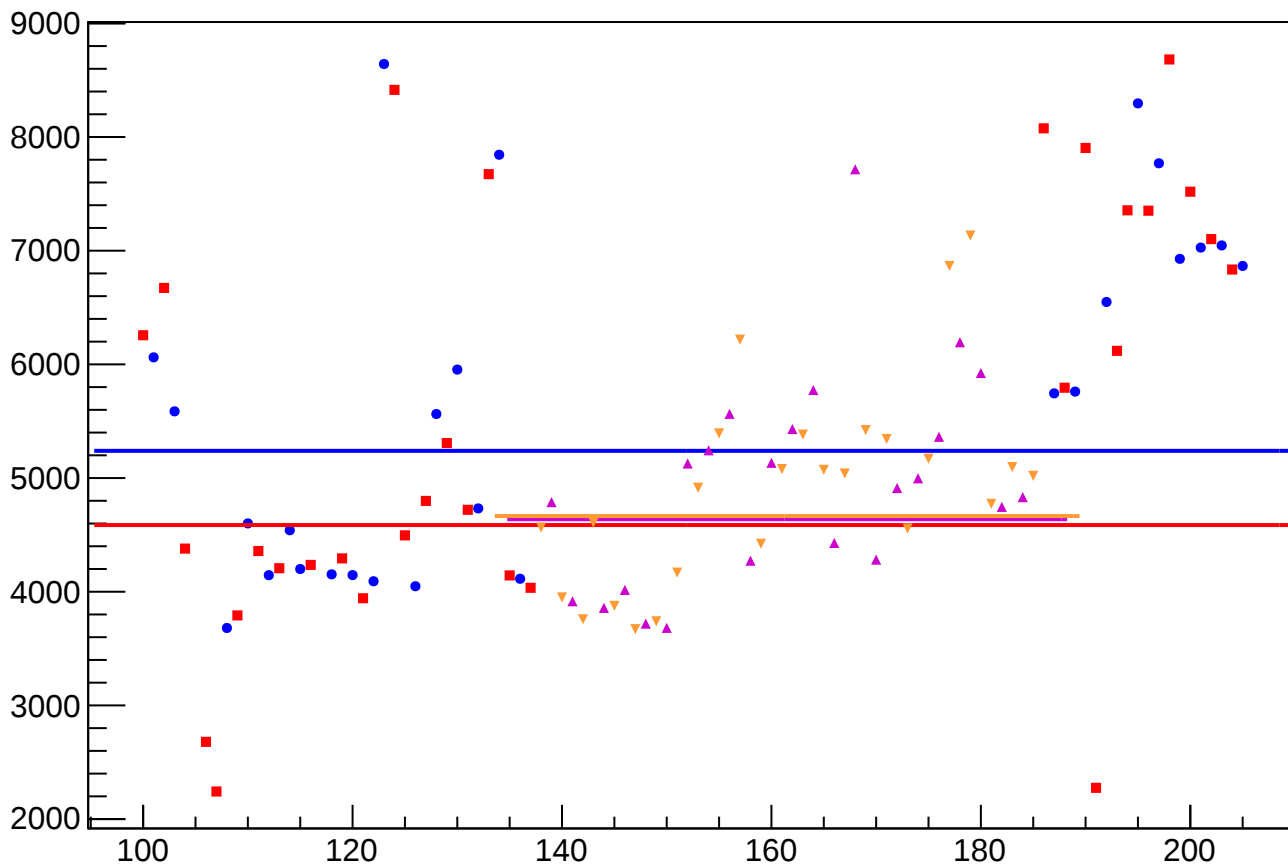
Right: -2204.940 ± 993.514 χ^2/NDF : 51.5/55

In: -778.889 ± 903.607 χ^2/NDF : 49.4/48

Out: -888.007 ± 848.726 χ^2/NDF : 48.8/54

All: -836.862 ± 618.633 χ^2/NDF : 98.2/103

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5239.288+/-1.065

χ^2/NDF : 1564231.6/25

Left Out: 4665.620+/-0.783

χ^2/NDF : 1017235.0/24

Right Out: 4586.590+/-0.931

χ^2/NDF : 3586768.0/29

Left In: 4637.777+/-0.799

χ^2/NDF : 1065217.2/22

Left: 4651.983+/-0.559 χ^2/NDF : 2083072.1/47

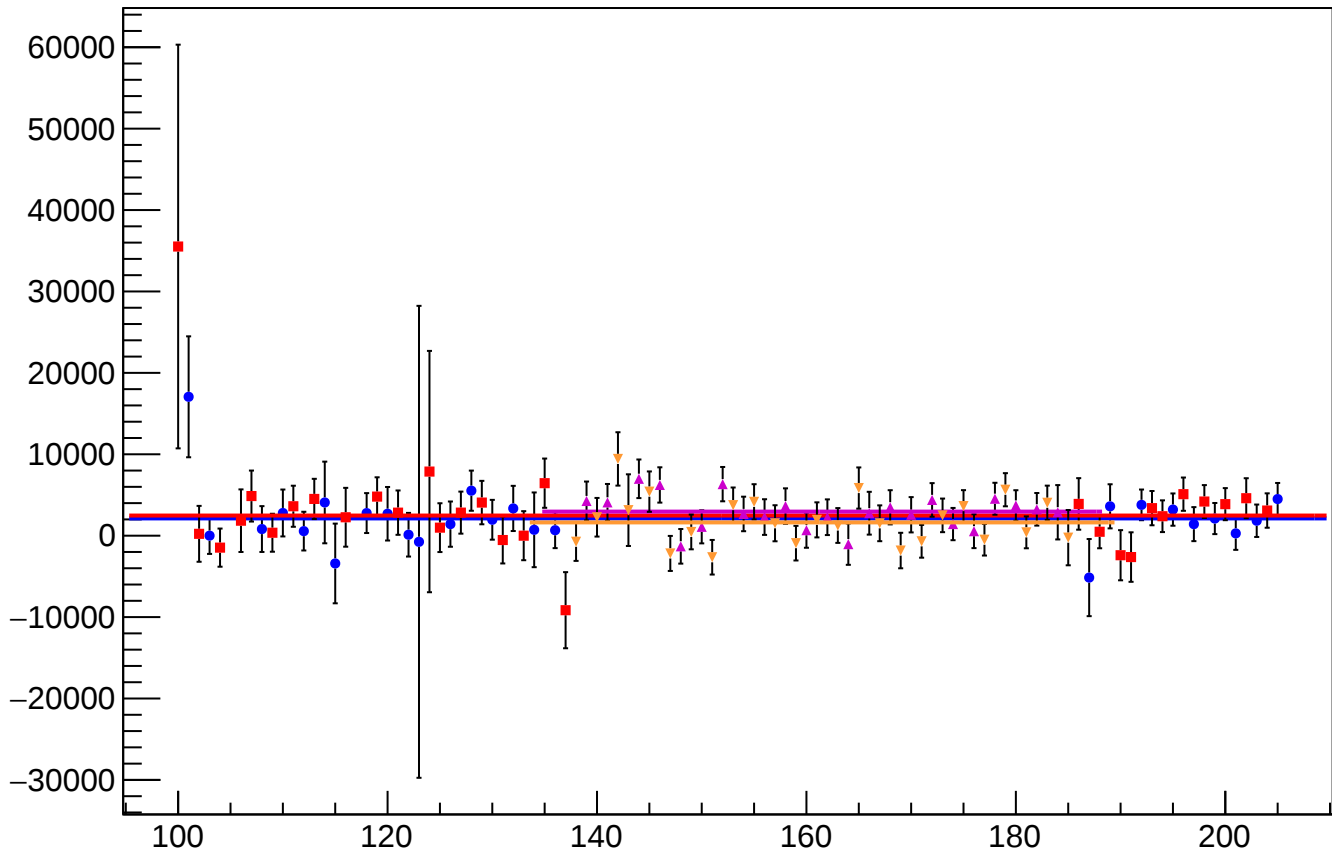
Right: 4869.325+/-0.701 χ^2/NDF : 5364031.1/55

In: 4854.421+/-0.639 χ^2/NDF : 2833682.3/48

Out: 4632.884+/-0.599 χ^2/NDF : 4608226.4/54

All: 4736.515+/-0.437 χ^2/NDF : 7505890.3/100

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2121.635 $\pm$ 503.901 χ^2 /NDF: 16.6/25

Left Out: 1630.035 $\pm$ 447.063 χ^2 /NDF:35.4/24

Right Out: 2474.386 $\pm$ 482.091 χ^2 /NDF: 29.2/29

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

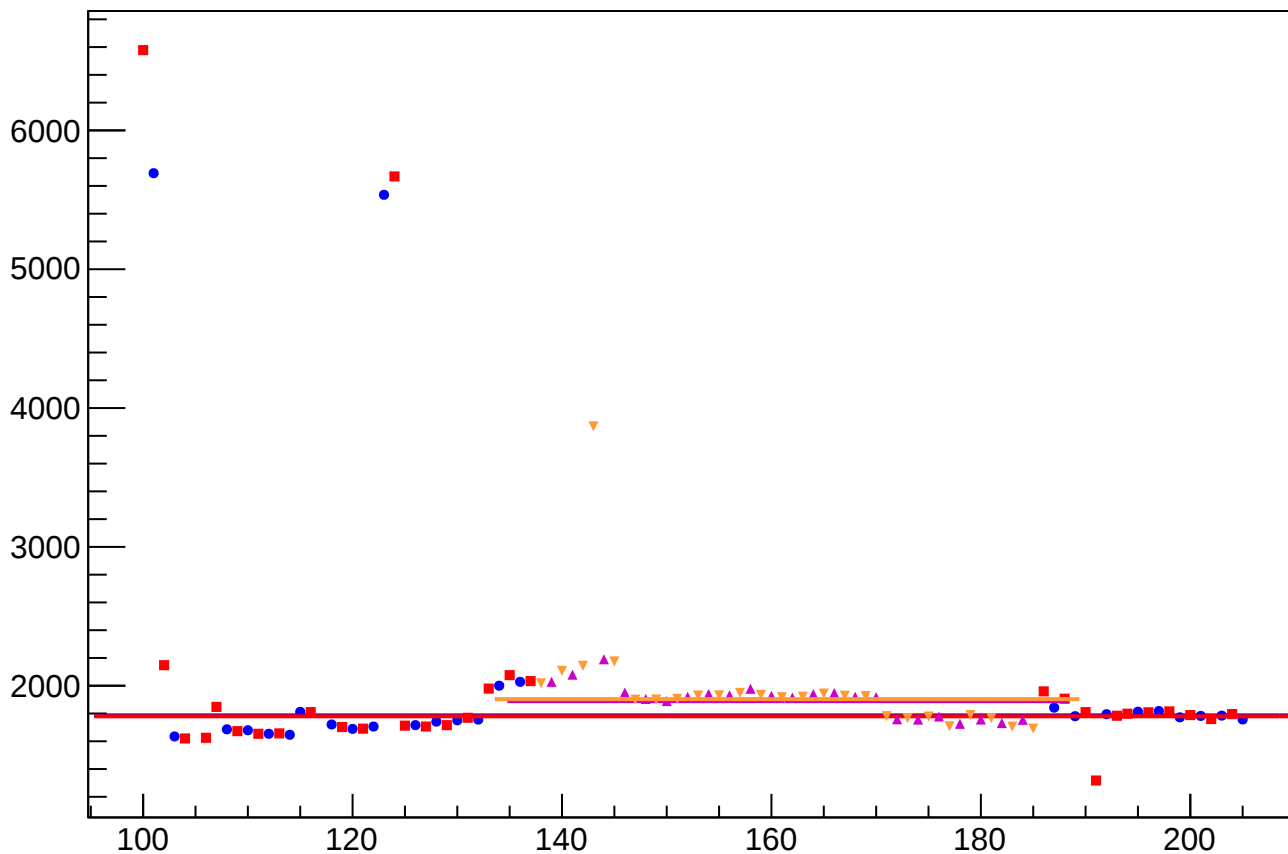
Right: 2305.810 $\pm$ 348.345 χ^2 /NDF: 46.0/55

In: 2583.896 $\pm$ 337.165 χ^2 /NDF:38.5/48

Out: 2020.425 $\pm$ 327.806 χ^2 /NDF:66.2/54

All: 2294.232 $\pm$ 235.033 χ^2 /NDF: 106.2/103

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1786.289+/-0.356 χ^2/NDF : 646340.9/25

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1779.723+/-0.340 χ^2/NDF : 368840.6/29

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

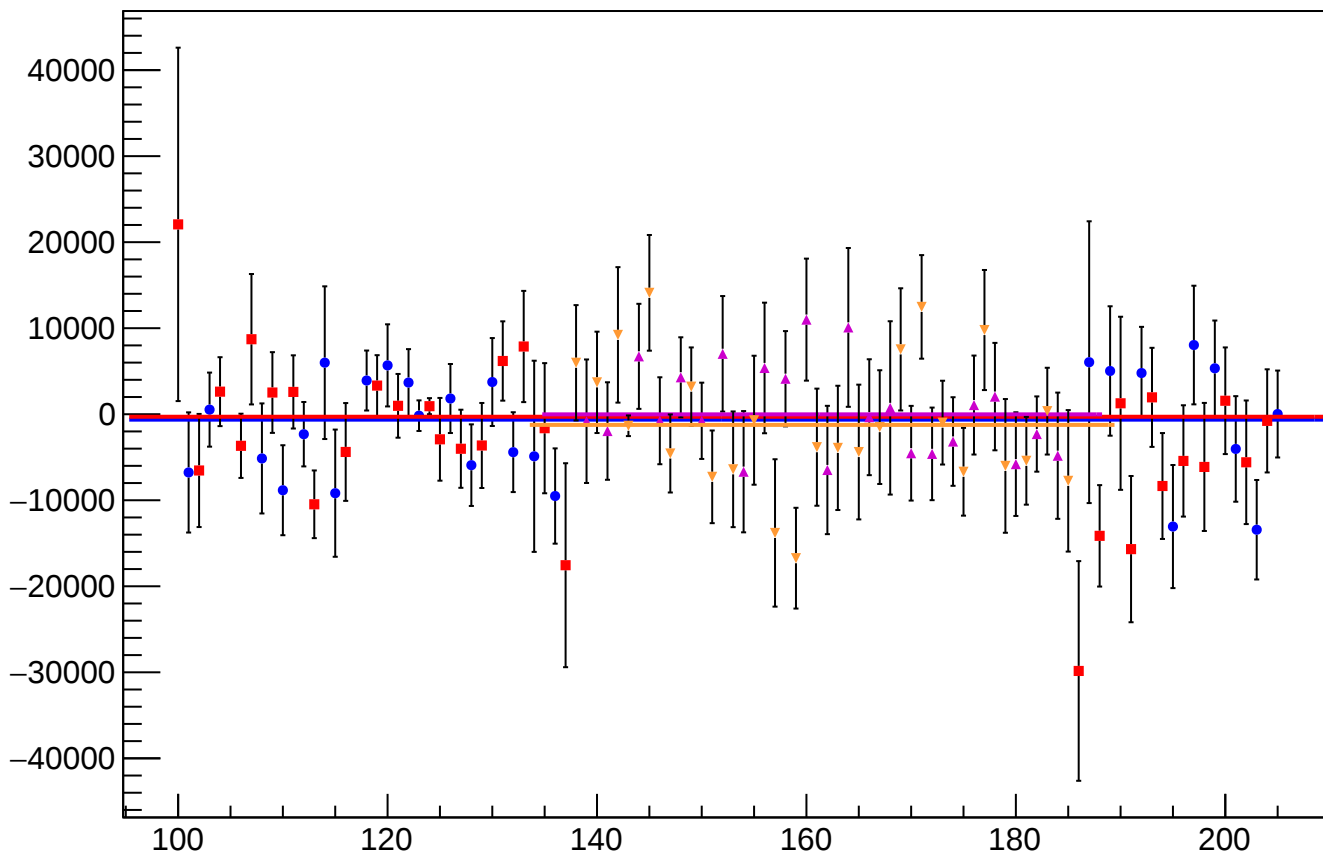
Right: 1782.849+/-0.246 χ^2/NDF : 1015359.3/55

In: 1842.975+/-0.238 χ^2/NDF : 818585.9/48

Out: 1846.124+/-0.231 χ^2/NDF : 981697.0/54

All: 1844.596+/-0.166 χ^2/NDF : 1800372.7/100

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -629.626+/-911.660 χ^2/NDF : 29.1/25

Left Out: -1239.833+/-865.201 χ^2/NDF : 33.9/24

Right Out: -293.423+/-685.470 χ^2/NDF : 40.8/29

Left In: -15.863+/-1243.317 χ^2/NDF : 13.2/22

Left: -840.501+/-710.172 χ^2/NDF : 47.8/47

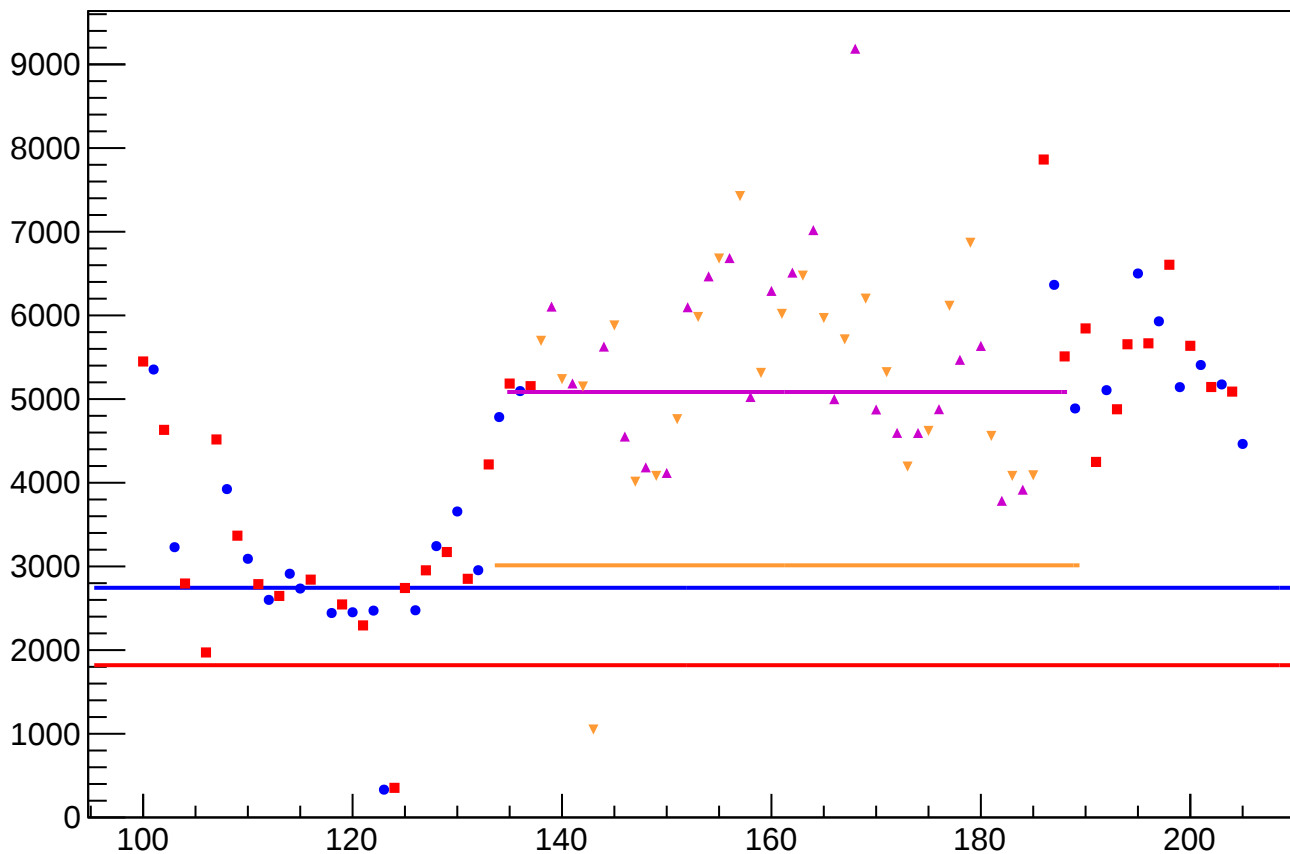
Right: -414.847+/-547.878 χ^2/NDF : 70.0/55

In: -415.019+/-735.197 χ^2/NDF : 42.5/48

Out: -658.388+/-537.283 χ^2/NDF : 75.5/54

All: -573.662+/-433.791 χ^2/NDF : 118.1/103

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2744.701 $\pm$ 0.645

χ^2 /NDF: 7584855.5/25

Left: 3689.075 $\pm$ 0.502

χ^2 /NDF: 17314385.8/47

Left Out: 3013.268 $\pm$ 0.612

χ^2 /NDF: 12270753.9/24

Right: 2153.718 $\pm$ 0.387

χ^2 /NDF: 22859765.3/55

Right Out: 1819.609 $\pm$ 0.485

χ^2 /NDF: 13959307.4/29

In: 3562.882 $\pm$ 0.520

χ^2 /NDF: 13495445.7/48

Out: 2279.922 $\pm$ 0.380

χ^2 /NDF: 28568819.0/54

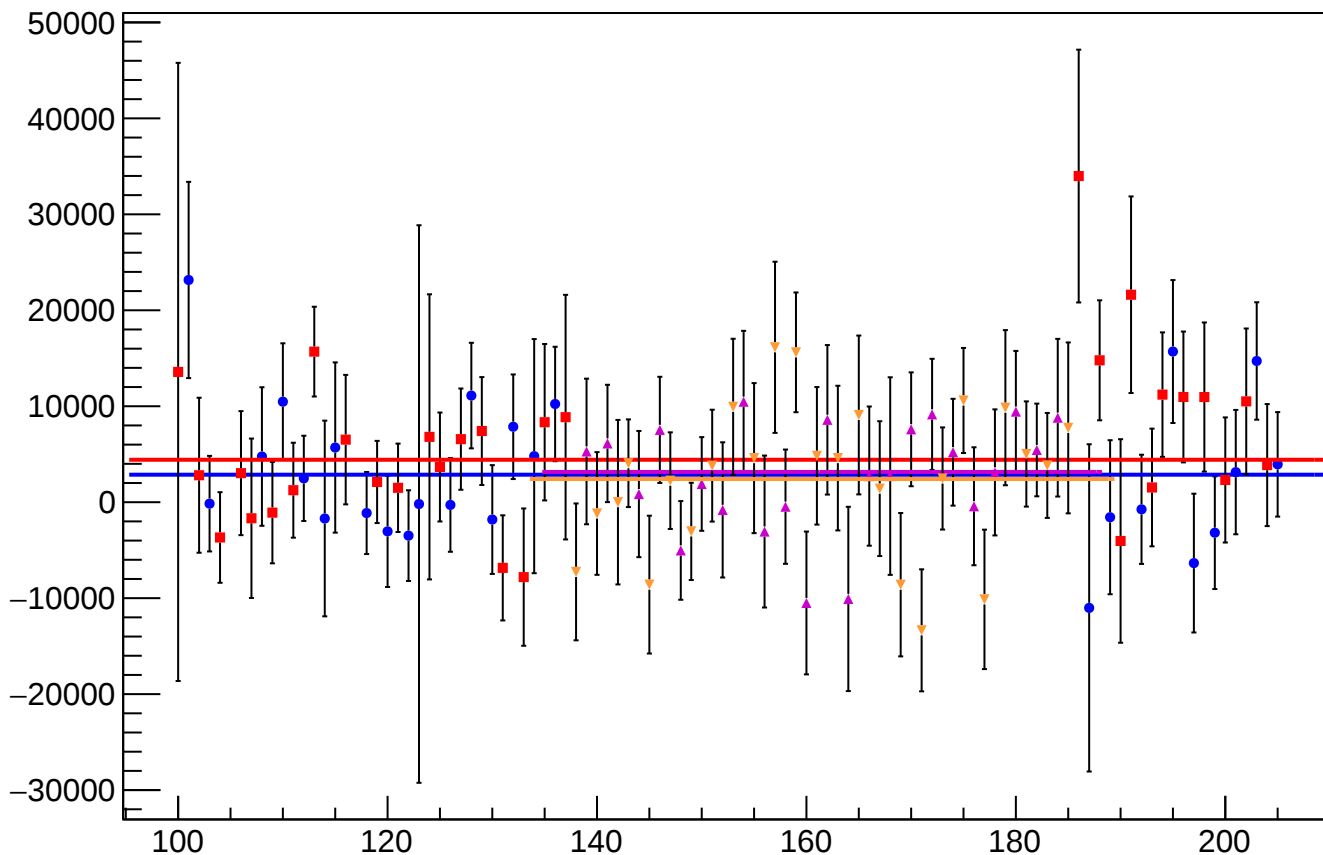
Left In: 5084.645 $\pm$ 0.879

χ^2 /NDF: 1303587.7/22

All: 2726.571 $\pm$ 0.307

χ^2 /NDF: 46034381.8/100

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2866.421+/-1217.663 χ^2/NDF : 26.5/25

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 4423.573+/-1173.078 χ^2/NDF : 34.7/29

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

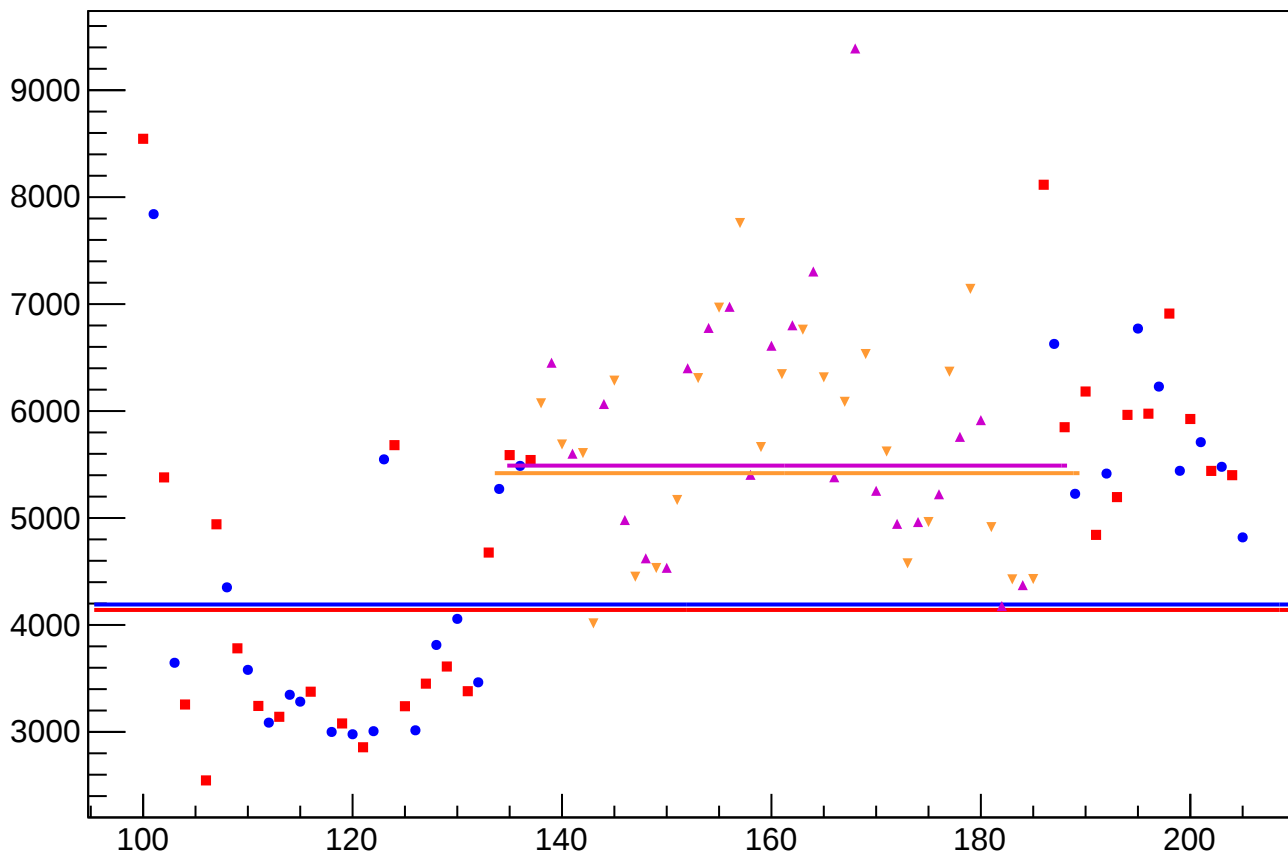
Right: 3674.027+/-844.814 χ^2/NDF : 62.1/55

In: 2996.516+/-900.373 χ^2/NDF : 42.0/48

Out: 3512.704+/-866.816 χ^2/NDF : 65.9/54

All: 3264.408+/-624.458 χ^2/NDF : 108.1/103

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4191.353+/-0.861 χ^2/NDF : 1984594.1/25

Left Out: 5419.305+/-0.910 χ^2/NDF : 1109972.1/24

Right Out: 4140.329+/-0.821 χ^2/NDF : 2420463.8/29

Left In: 5489.885+/-0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

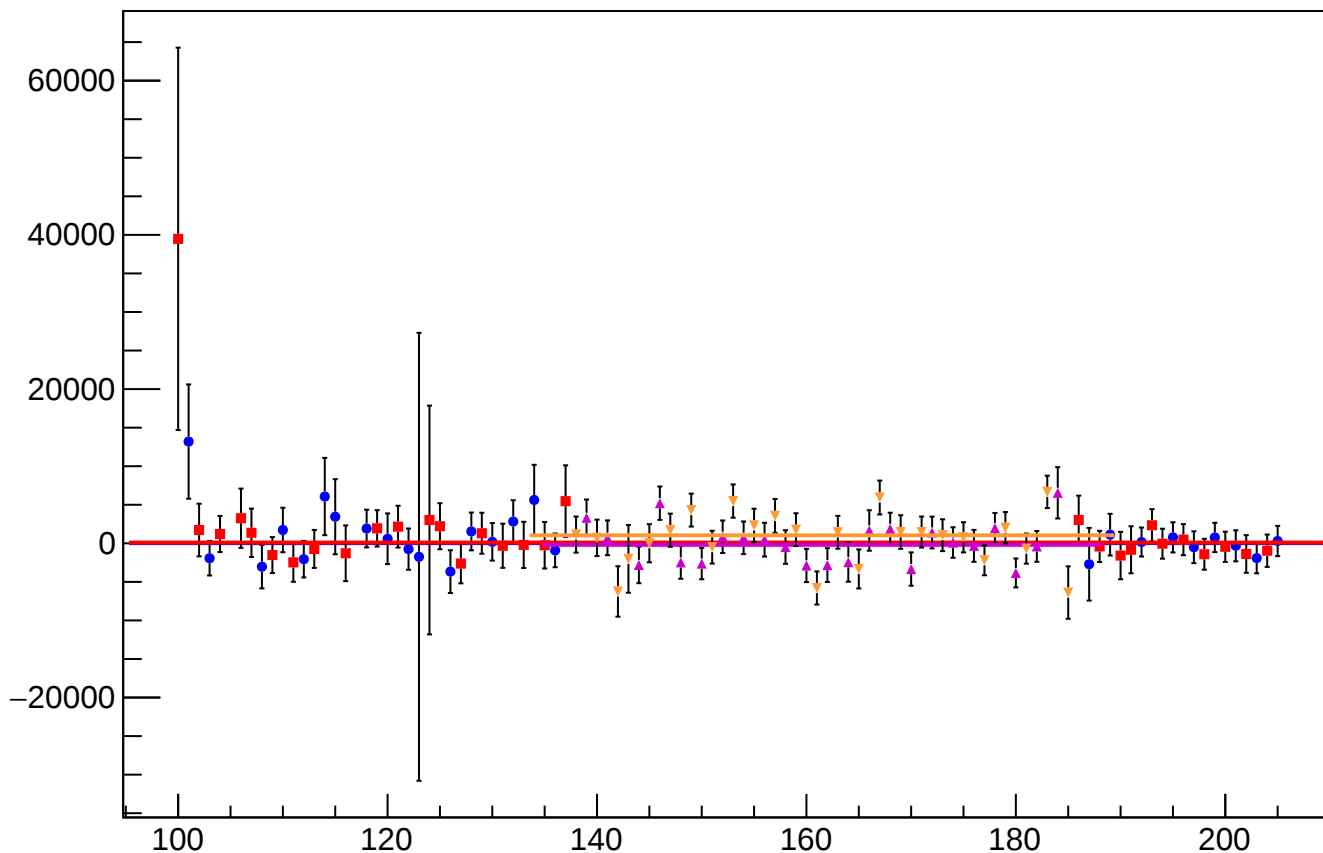
Right: 4164.631+/-0.594 χ^2/NDF : 4406897.2/55

In: 4779.908+/-0.637 χ^2/NDF : 4079852.4/48

Out: 4714.532+/-0.610 χ^2/NDF : 4619702.4/54

All: 4745.797+/-0.440 χ^2/NDF : 8705056.4/100

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 28.248+/-501.356 χ^2/NDF : 15.6/25

Left Out: 1041.262+/-446.249 χ^2/NDF :48.6/24

Right Out: 96.985+/-479.900 χ^2/NDF : 13.8/29

Left In: -191.966+/-453.055 χ^2/NDF :30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

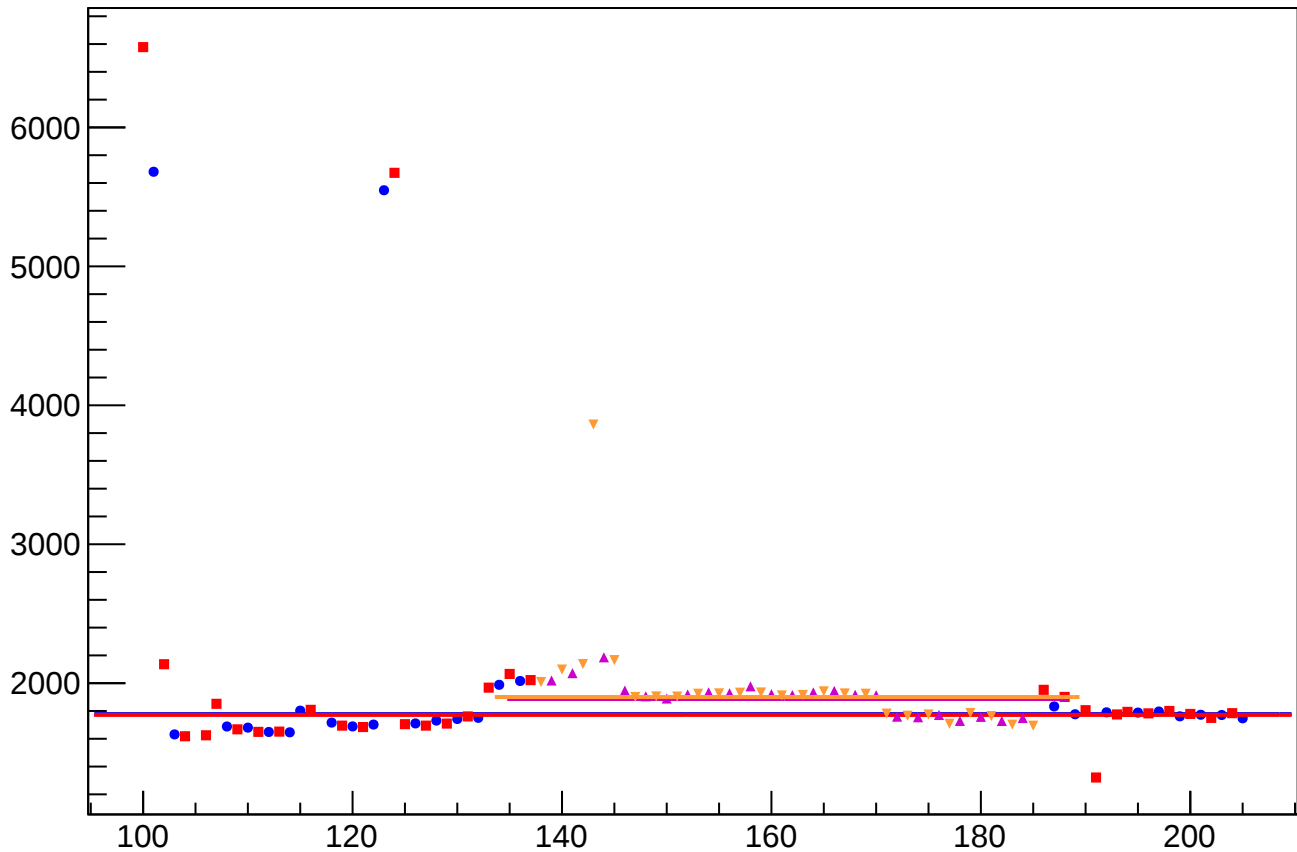
Right: 64.119+/-346.677 χ^2/NDF : 29.5/55

In: -92.975+/-336.141 χ^2/NDF :45.7/48

Out: 603.387+/-326.795 χ^2/NDF :64.5/54

All: 265.021+/-234.313 χ^2/NDF : 112.4/103

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1777.380+/-0.355 χ^2/NDF : 644226.5/25

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1771.858+/-0.338 χ^2/NDF : 365480.7/29

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

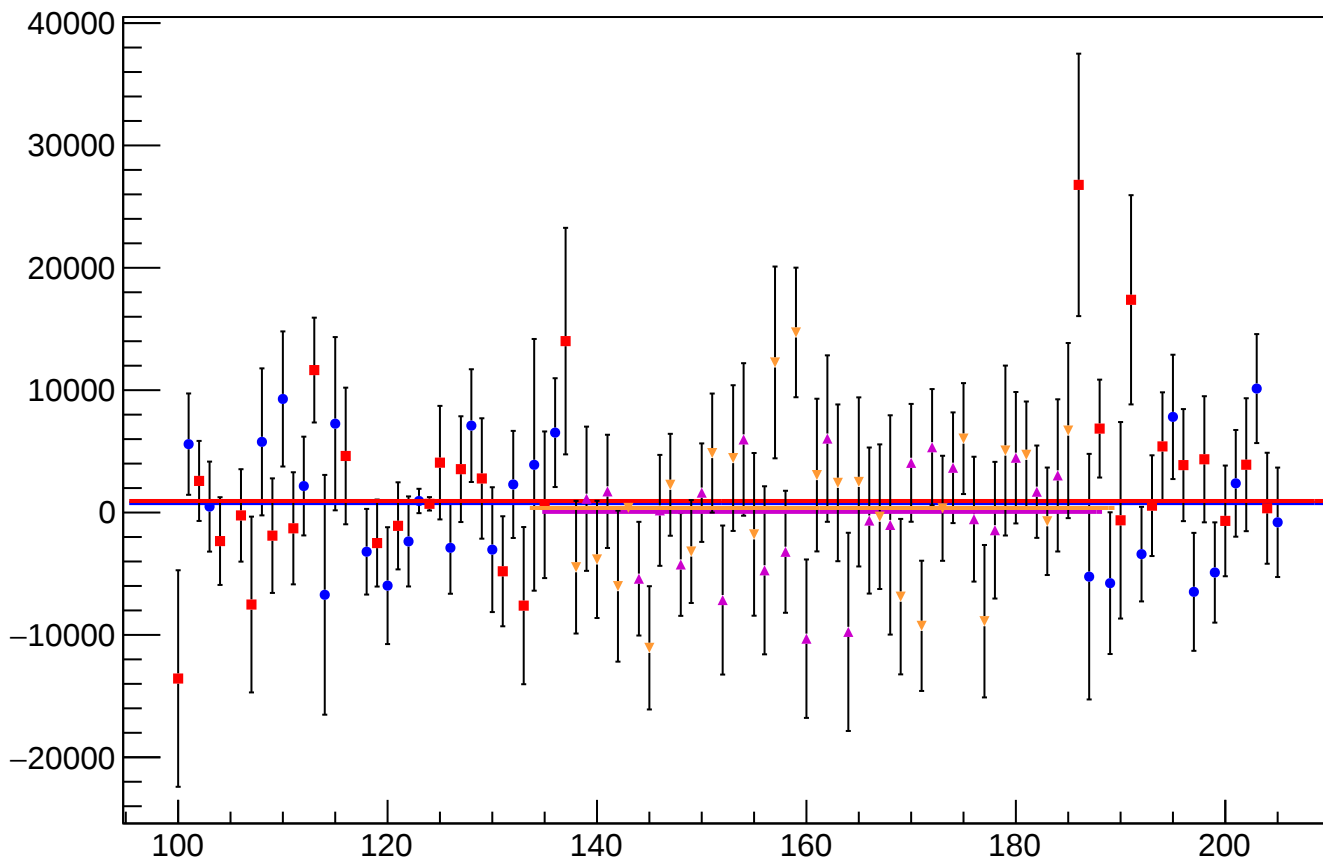
Right: 1774.489+/-0.245 χ^2/NDF : 1009834.2/55

In: 1837.381+/-0.238 χ^2/NDF : 819784.0/48

Out: 1840.520+/-0.231 χ^2/NDF : 980478.1/54

All: 1838.997+/-0.166 χ^2/NDF : 1800352.0/100

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 770.628+/-679.907 χ^2/NDF : 28.9/25

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 944.255+/-465.154 χ^2/NDF : 34.4/29

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

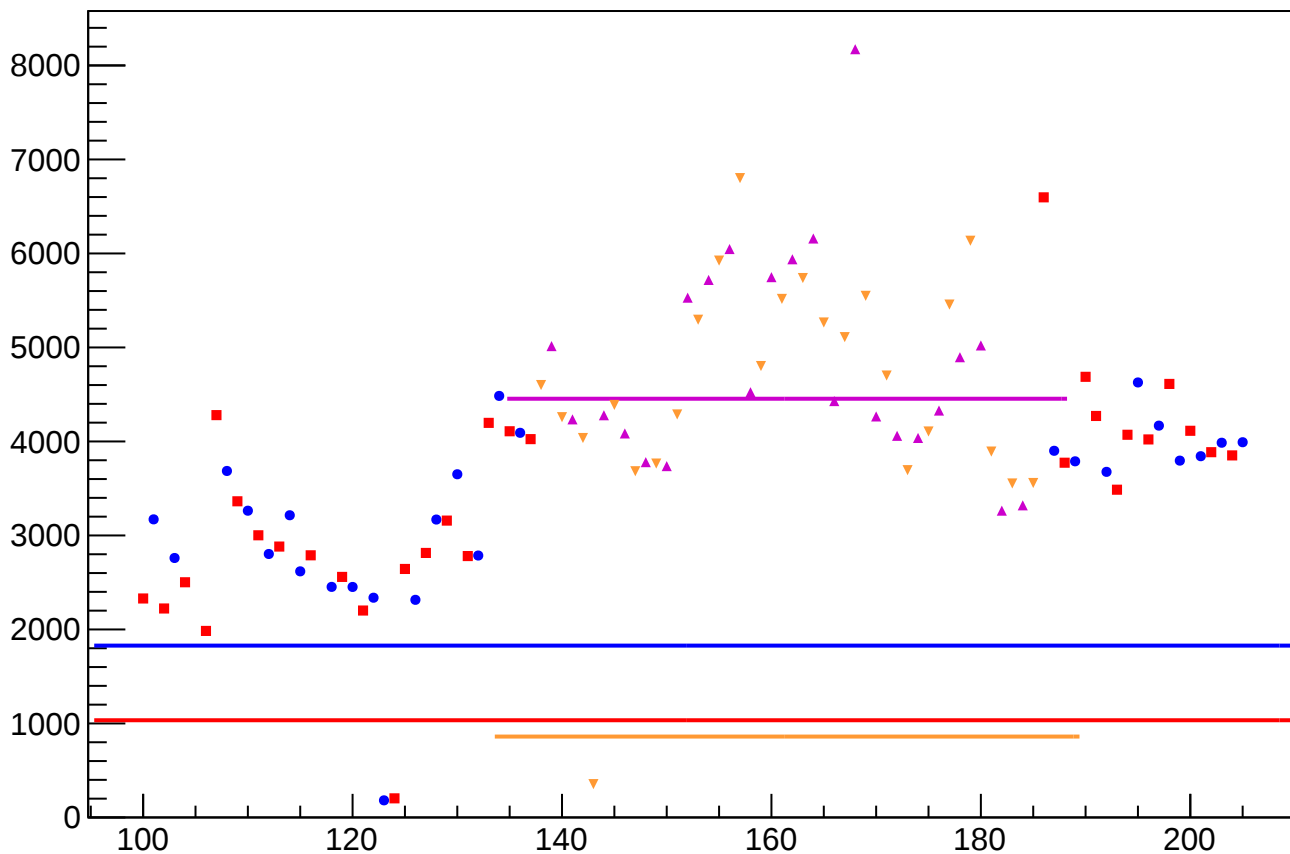
Right: 888.898+/-383.907 χ^2/NDF : 63.3/55

In: 569.617+/-576.863 χ^2/NDF :43.7/48

Out: 603.306+/-295.243 χ^2/NDF :66.1/54

All: 596.313+/-262.820 χ^2/NDF : 109.8/103

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1828.123 $\pm$ 0.481 χ^2/NDF : 11337272.9/25

Left Out: 860.545 $\pm$ 0.270 χ^2/NDF : 26340106.5/24

Right Out: 1034.092 $\pm$ 0.329 χ^2/NDF : 18161151.4/29

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

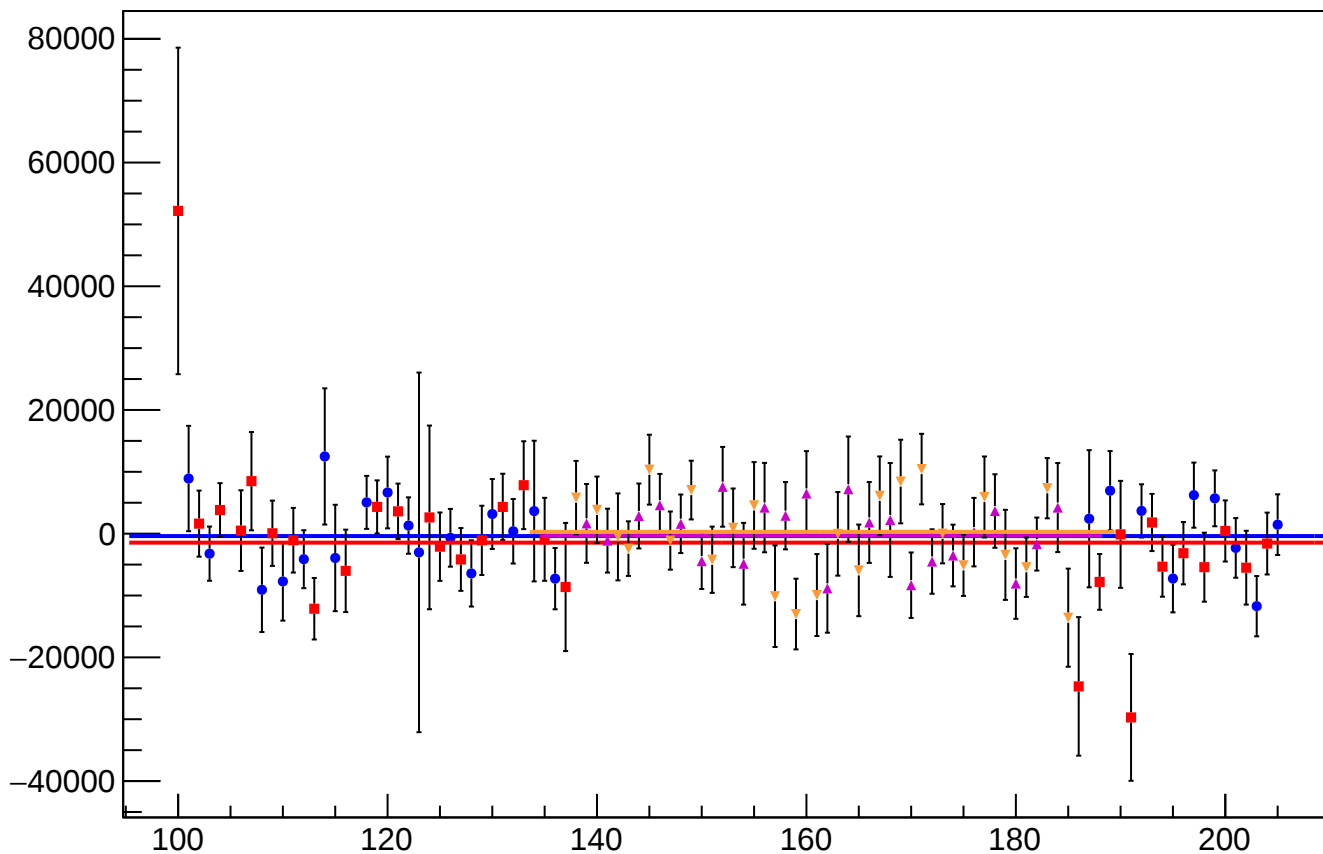
Right: 1287.250 $\pm$ 0.271 χ^2/NDF : 31356501.5/55

In: 2563.860 $\pm$ 0.408 χ^2/NDF : 21046786.9/48

Out: 930.462 $\pm$ 0.209 χ^2/NDF : 44667499.5/54

All: 1269.512 $\pm$ 0.186 χ^2/NDF : 78420839.8/100

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -389.365 ± 1089.906 χ^2/NDF : 26.7/25

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -1448.194 ± 1046.881 χ^2/NDF : 35.9/29

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

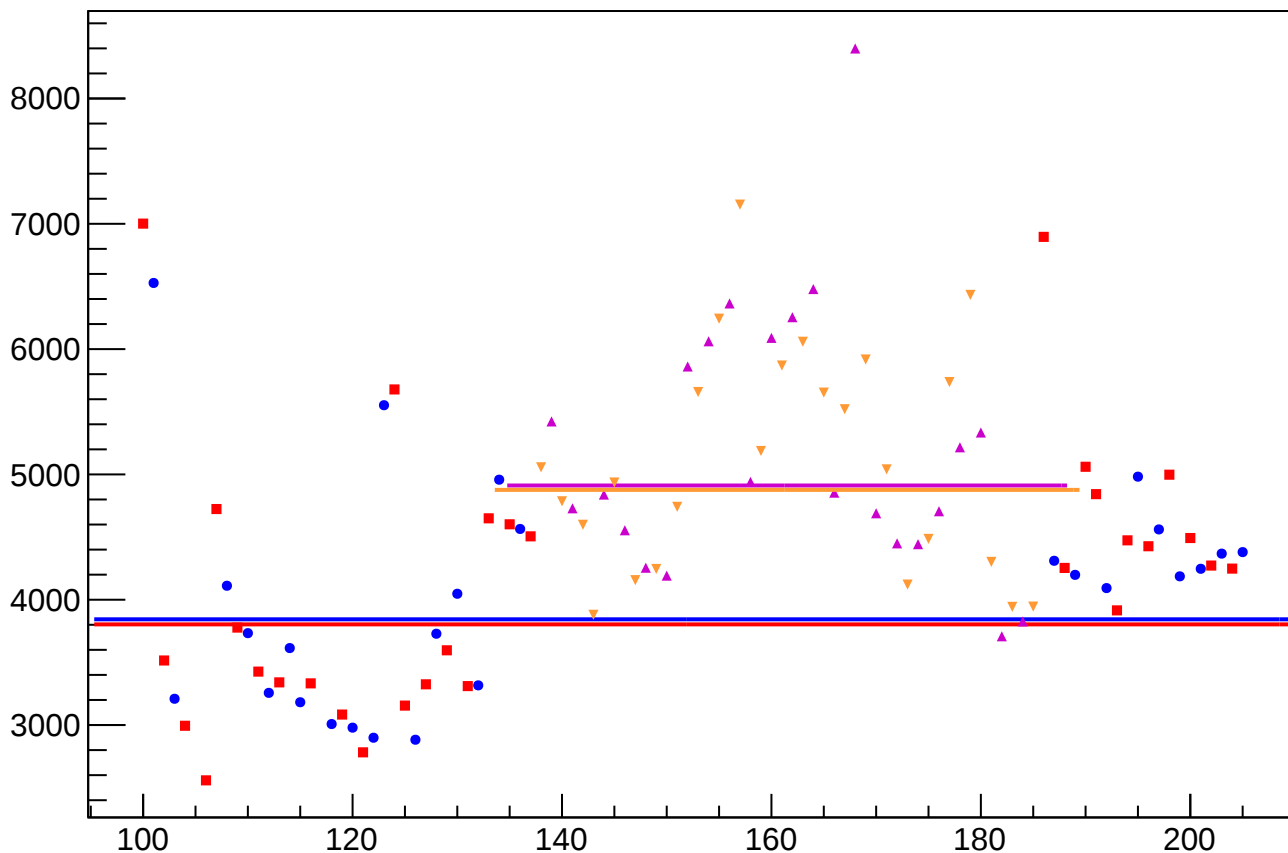
Right: -940.091 ± 755.009 χ^2/NDF : 63.0/55

In: -363.561 ± 805.585 χ^2/NDF : 41.4/48

Out: -665.227 ± 775.798 χ^2/NDF : 69.5/54

All: -520.074 ± 558.806 χ^2/NDF : 110.9/103

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3843.724+/-0.771 χ^2/NDF : 884704.4/25

Left Out: 4876.564+/-0.817 χ^2/NDF : 972528.1/24

Right Out: 3803.174+/-0.734 χ^2/NDF : 1075226.6/29

Left In: 4911.546+/-0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451+/-0.588 χ^2/NDF : 2016577.8/47

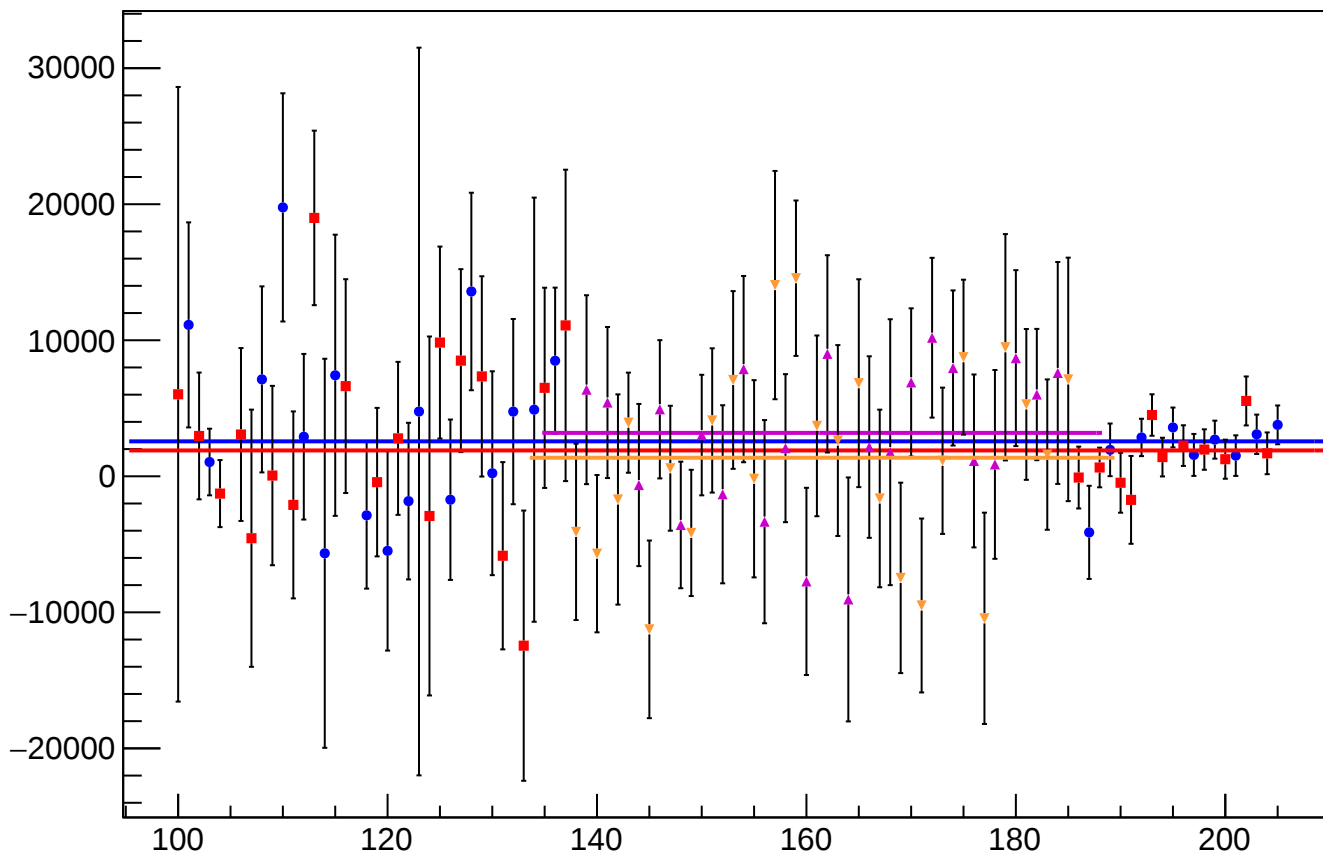
Right: 3822.468+/-0.532 χ^2/NDF : 1961382.2/55

In: 4328.175+/-0.570 χ^2/NDF : 2798840.2/48

Out: 4282.787+/-0.546 χ^2/NDF : 3002598.2/54

All: 4304.525+/-0.394 χ^2/NDF : 5804746.5/100

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2568.560 $\pm$ 489.533 χ^2 /NDF: 20.2/25

Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24

Right Out: 1901.530 $\pm$ 469.741 χ^2 /NDF: 29.0/29

Left In: 3191.160 $\pm$ 1270.021 χ^2 /NDF:14.0/22

Left: 2231.138 $\pm$ 874.630 χ^2 /NDF: 43.0/47

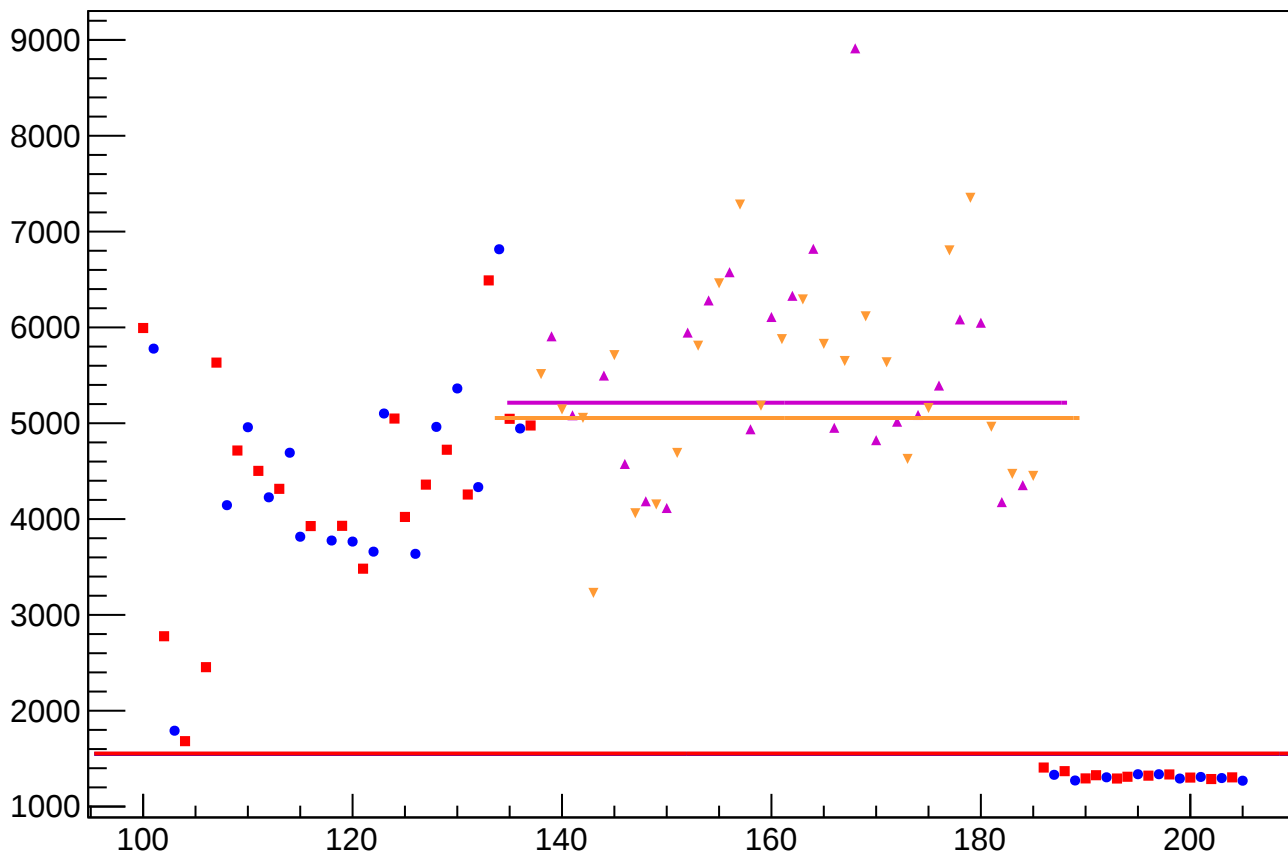
Right: 2221.289 $\pm$ 338.938 χ^2 /NDF: 50.1/55

In: 2649.097 $\pm$ 456.775 χ^2 /NDF:34.4/48

Out: 1830.892 $\pm$ 437.723 χ^2 /NDF:57.1/54

All: 2222.575 $\pm$ 316.038 χ^2 /NDF: 93.2/103

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1548.983 $\pm$ 0.346 χ^2 /NDF: 5698319.1/25

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF:1437224.7/24

Right Out: 1553.034 $\pm$ 0.332 χ^2 /NDF: 5624793.2/29

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

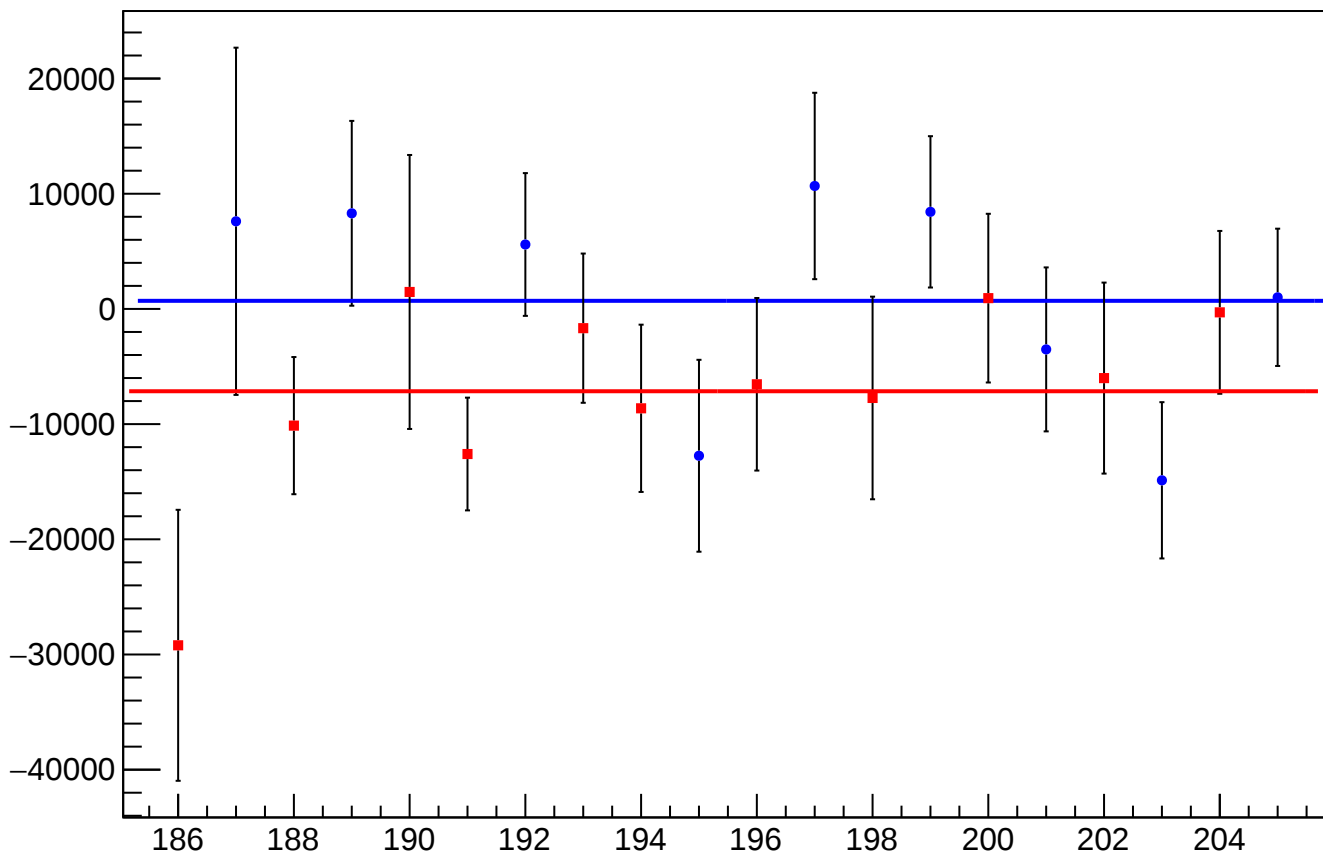
Right: 1551.094 $\pm$ 0.240 χ^2 /NDF: 11323183.6/55

In: 2023.084 $\pm$ 0.323 χ^2 /NDF:21252886.8/48

Out: 2013.269 $\pm$ 0.309 χ^2 /NDF:21700579.5/54

All: 2017.963 $\pm$ 0.223 χ^2 /NDF: 42953948.2/100

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 703.276+/-2436.346 χ^2/NDF : 12.9/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -7146.811+/-2176.904 χ^2/NDF : 8.5/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

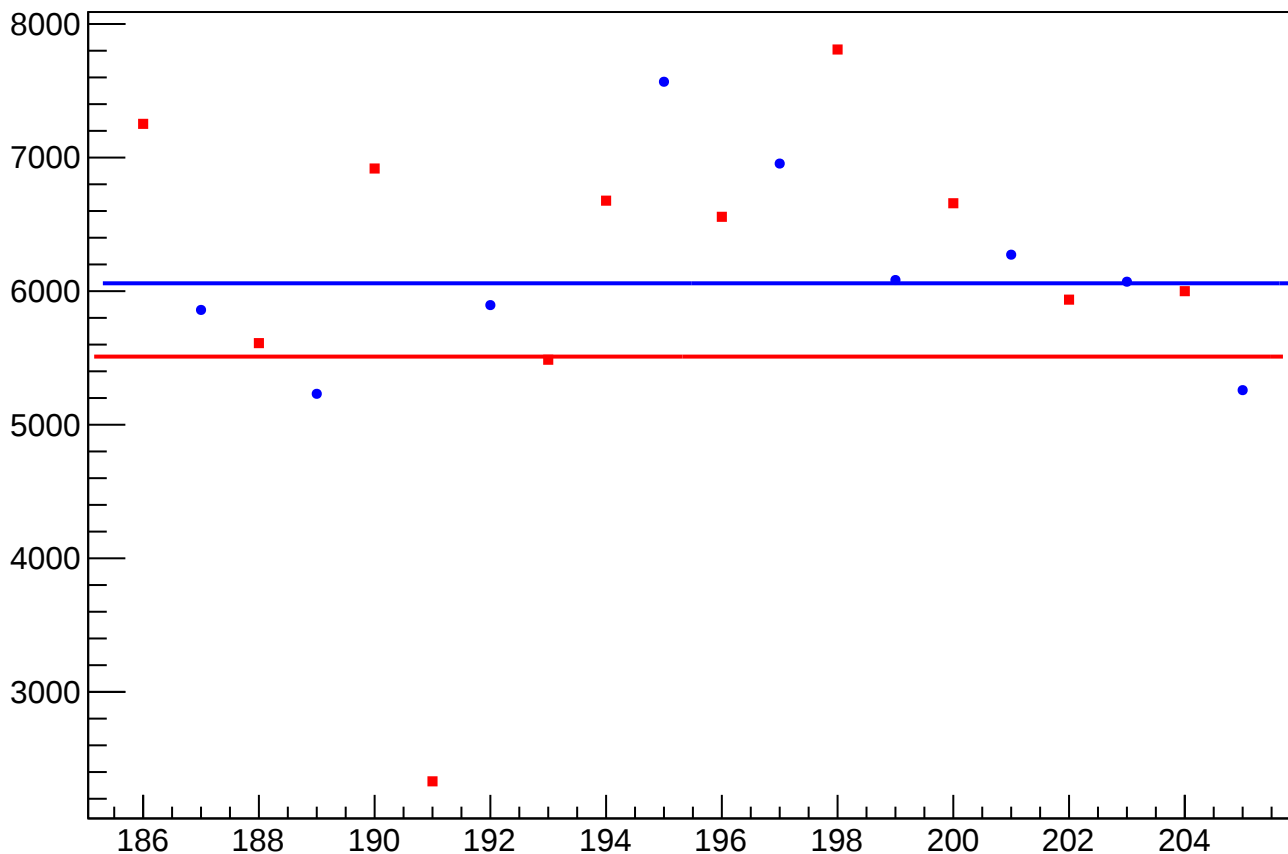
Right: -3661.853+/-1623.306 χ^2/NDF : 27.1/19

In: 703.276+/-2436.346 χ^2/NDF : 12.9/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -3661.853+/-1623.306 χ^2/NDF : 27.1/19

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 6058.836+/-1.723 χ^2/NDF : 151045.8/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5510.136+/-1.539 χ^2/NDF : 1208200.1/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

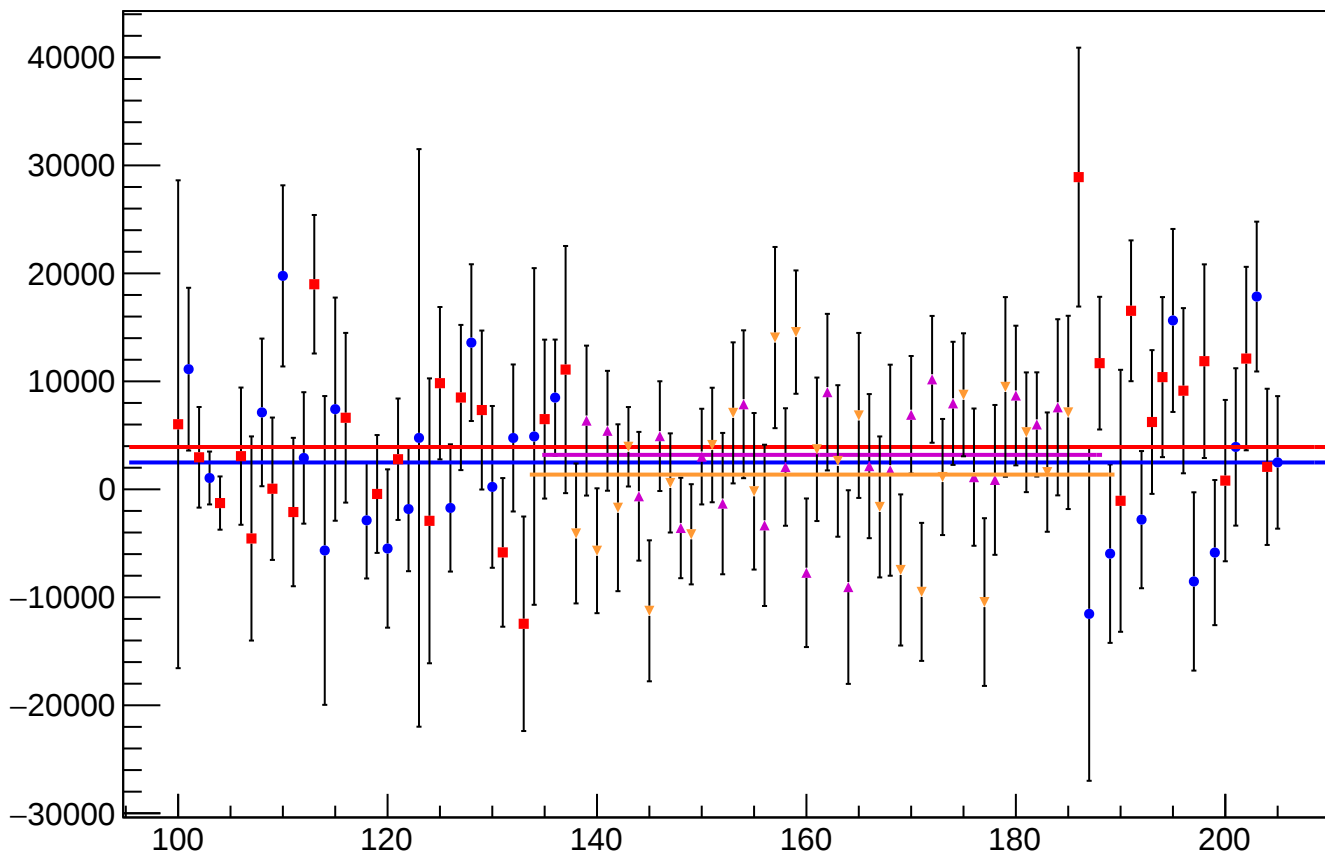
Right: 5753.725+/-1.148 χ^2/NDF : 1415654.6/19

In: 6058.836+/-1.723 χ^2/NDF : 151045.8/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5753.725+/-1.148 χ^2/NDF : 1415654.6/19

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2488.160+/-1257.639 χ^2/NDF : 27.2/25

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3919.315+/-1189.242 χ^2/NDF : 32.8/29

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

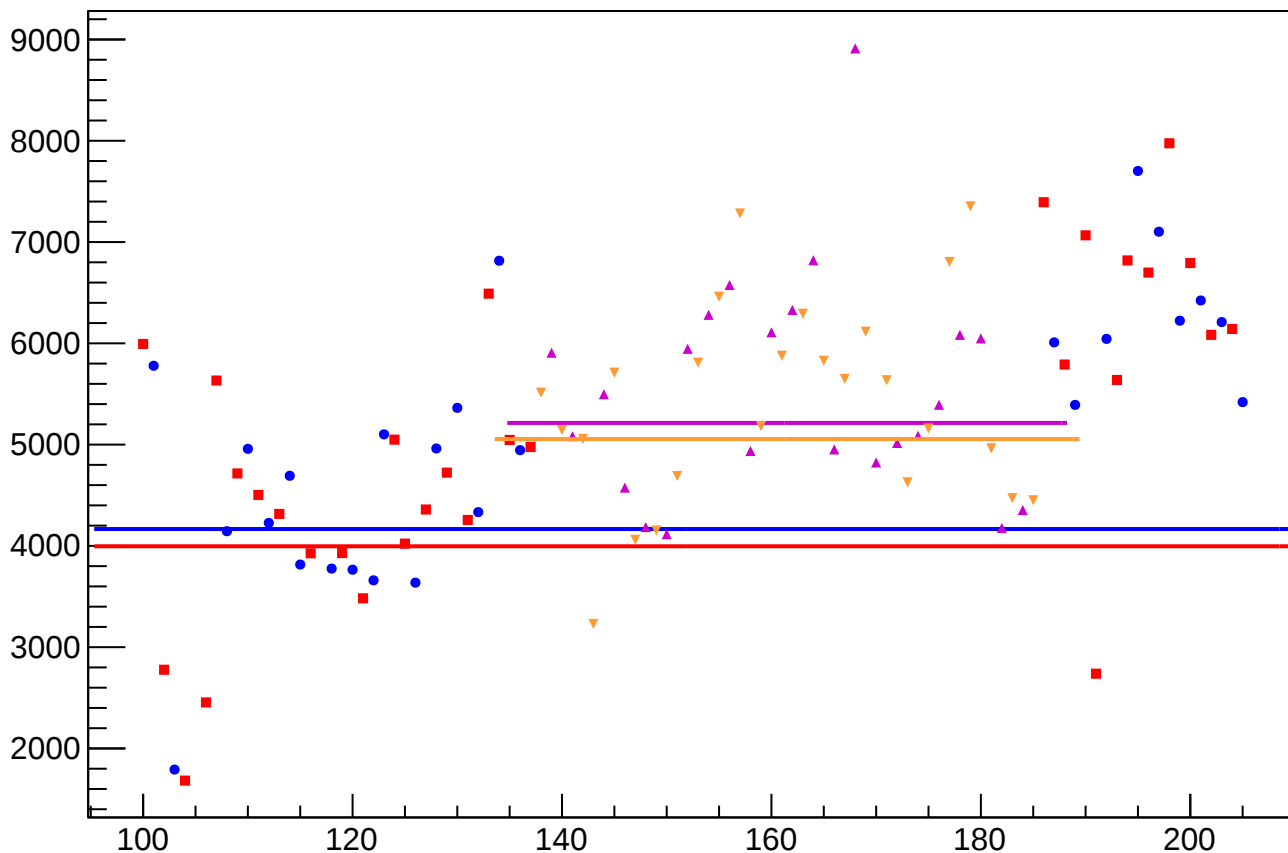
Right: 3243.711+/-864.090 χ^2/NDF : 60.7/55

In: 2836.216+/-893.631 χ^2/NDF : 41.4/48

Out: 2660.351+/-846.877 χ^2/NDF : 63.0/54

All: 2743.563+/-614.696 χ^2/NDF : 104.4/103

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4166.473+/-0.889 χ^2/NDF : 3707000.6/25

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 3996.124+/-0.835 χ^2/NDF : 4582855.9/29

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

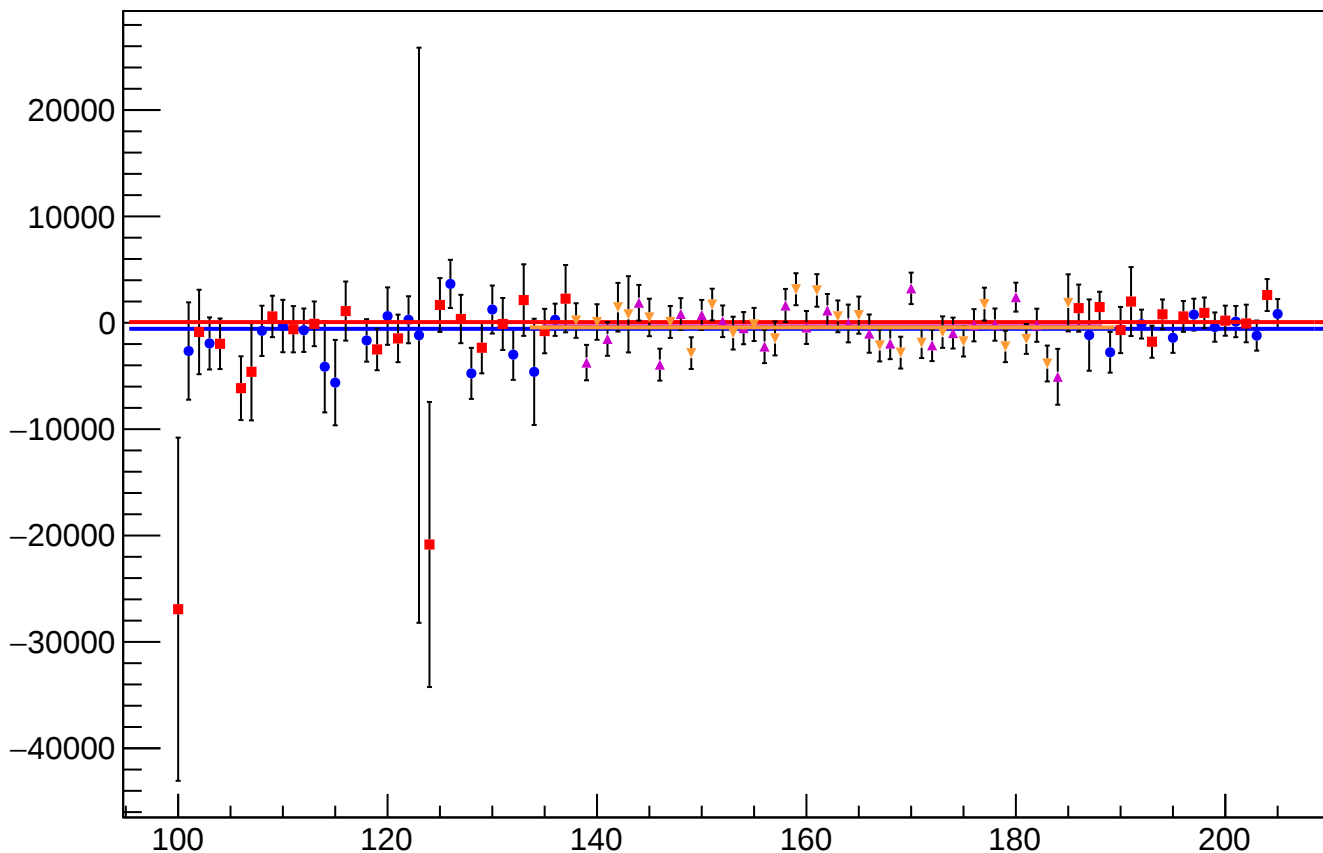
Right: 4075.964+/-0.609 χ^2/NDF : 8309353.5/55

In: 4685.155+/-0.632 χ^2/NDF : 5446649.6/48

Out: 4514.287+/-0.597 χ^2/NDF : 6806409.1/54

All: 4594.840+/-0.434 χ^2/NDF : 12291708.0/100

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -568.252+/-389.807 χ^2/NDF : 16.7/25

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: 65.120+/-378.654 χ^2/NDF : 23.3/29

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

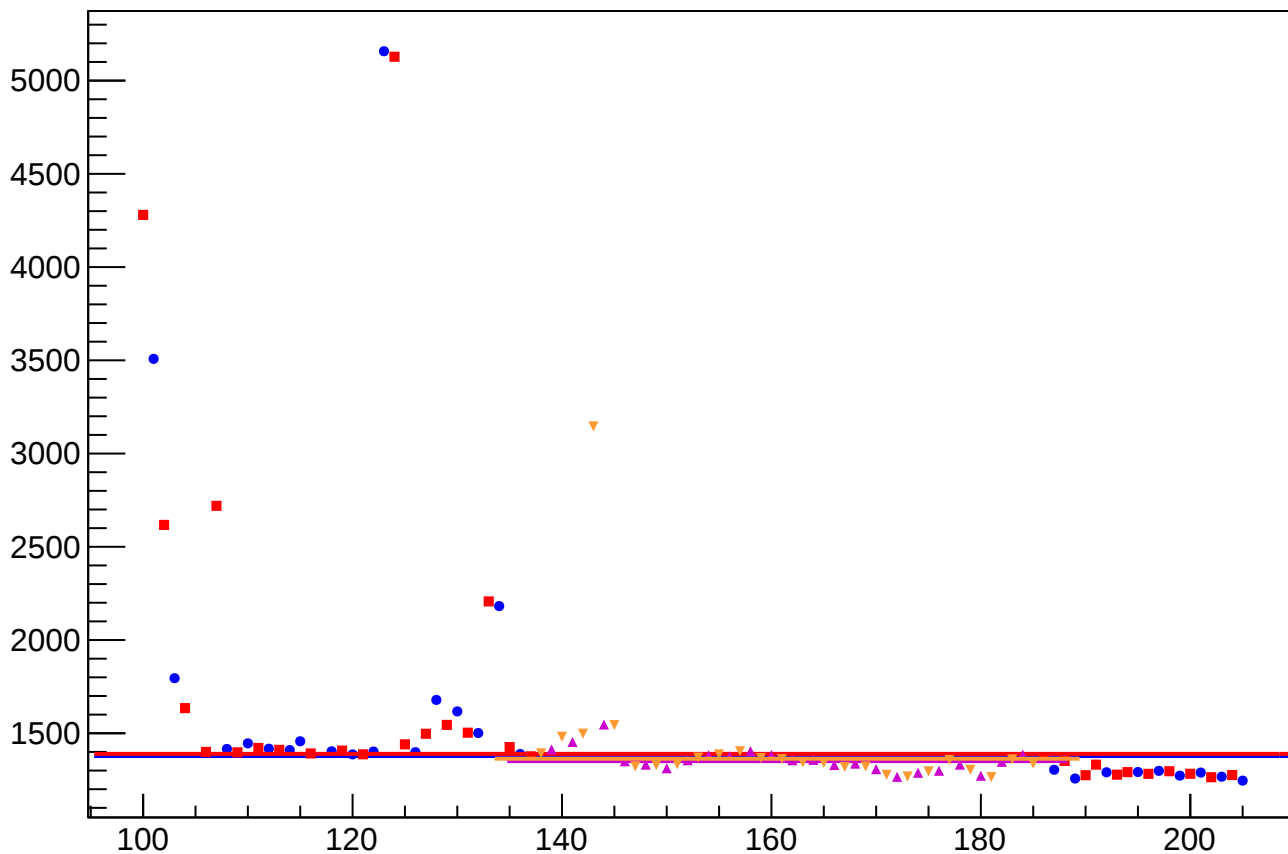
Right: -242.375+/-271.606 χ^2/NDF : 41.3/55

In: -435.594+/-249.335 χ^2/NDF :50.7/48

Out: -224.309+/-244.651 χ^2/NDF :57.3/54

All: -327.948+/-174.627 χ^2/NDF : 108.4/103

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1377.977+/-0.276 χ^2/NDF : 725717.0/25

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1389.458+/-0.268 χ^2/NDF : 820163.2/29

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

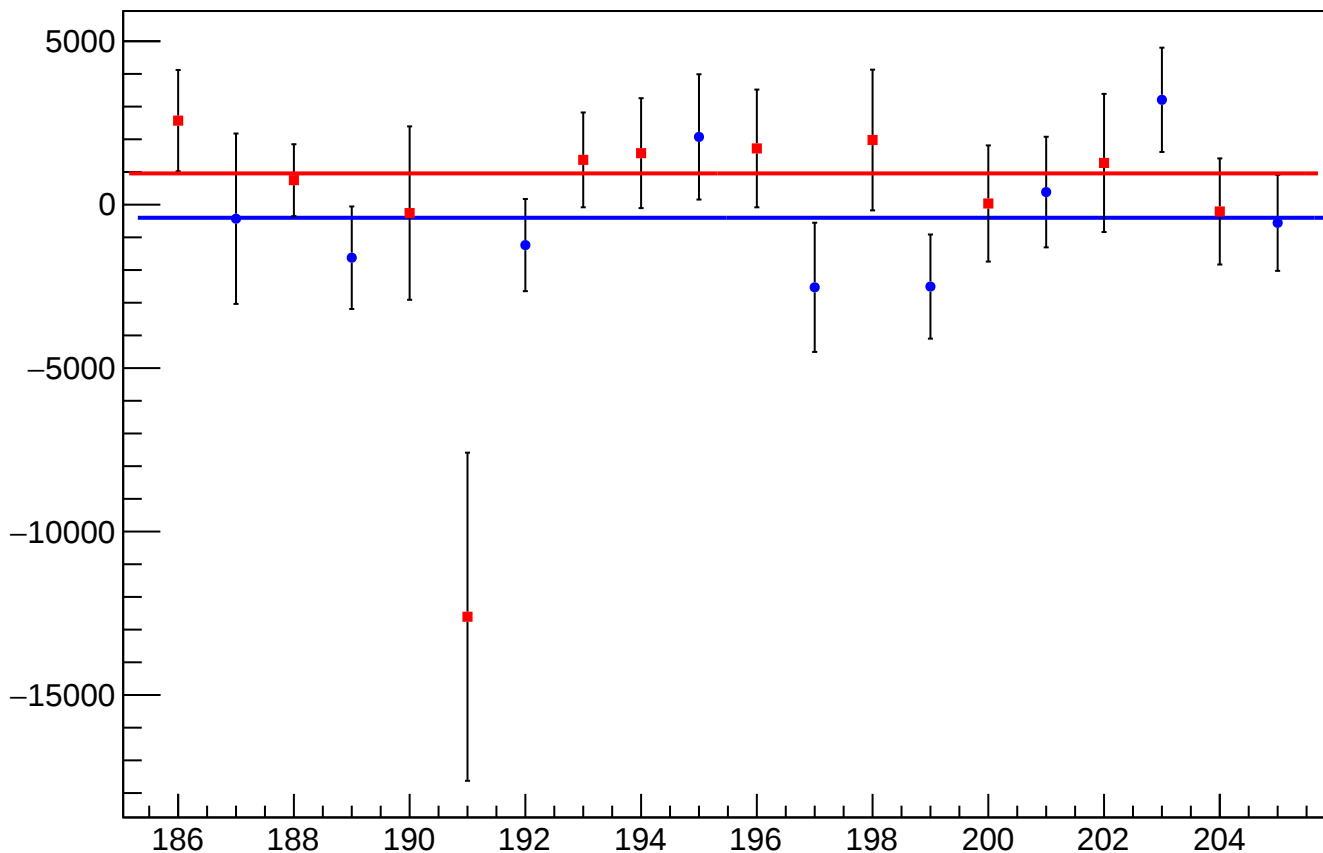
Right: 1383.884+/-0.192 χ^2/NDF : 1546772.9/55

In: 1361.983+/-0.176 χ^2/NDF : 798559.7/48

Out: 1374.372+/-0.173 χ^2/NDF : 1400839.7/54

All: 1368.295+/-0.123 χ^2/NDF : 2201915.0/100

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -401.283+/-560.338 χ^2/NDF : 10.9/8

Left Out: 0.000+/-0.000 χ^2/NDF :0.0/0

Right Out: 956.295+/-519.962 χ^2/NDF : 10.1/10

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

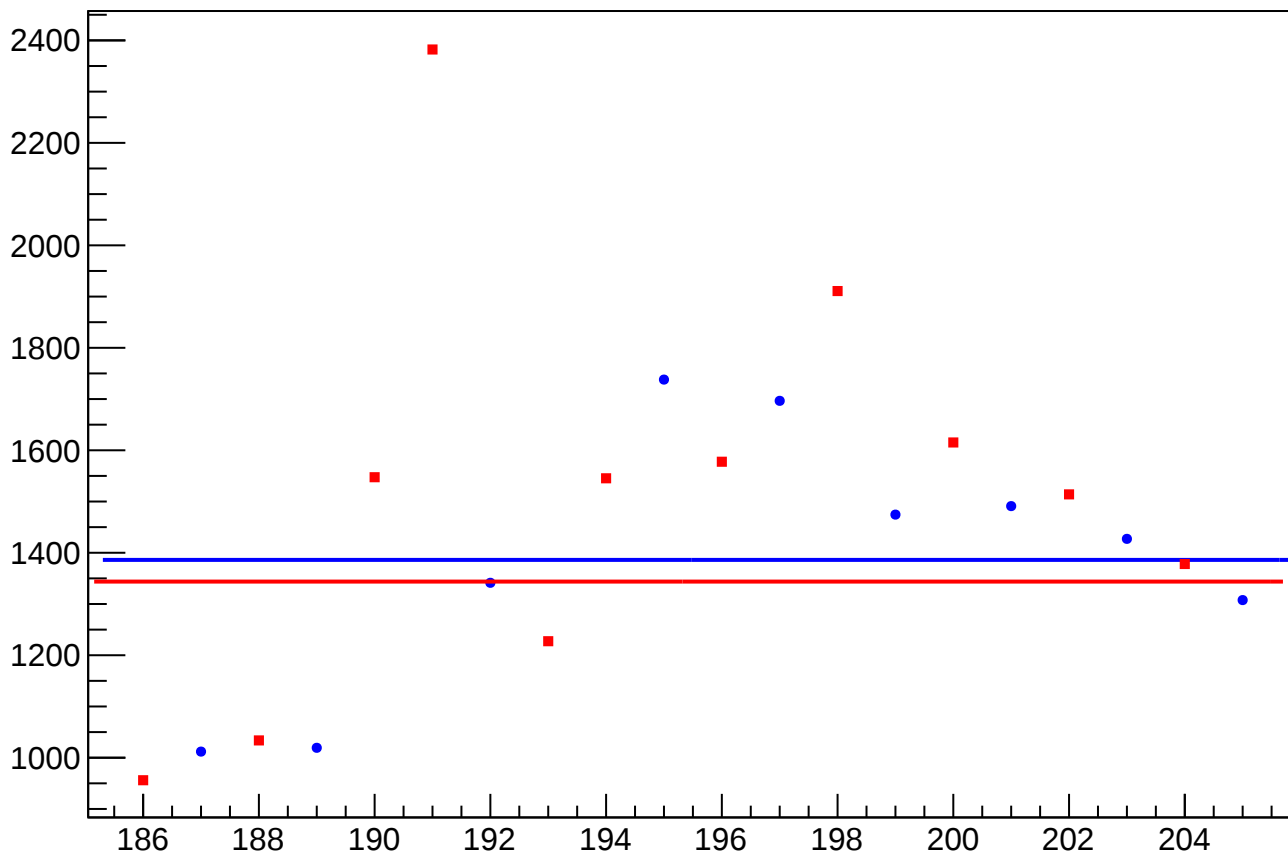
Right: 328.174+/-381.144 χ^2/NDF : 24.1/19

In: -401.283+/-560.338 χ^2/NDF :10.9/8

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 328.174+/-381.144 χ^2/NDF : 24.1/19

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1386.076+/-0.396 χ^2/NDF : 290217.6/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1343.765+/-0.368 χ^2/NDF : 656276.8/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

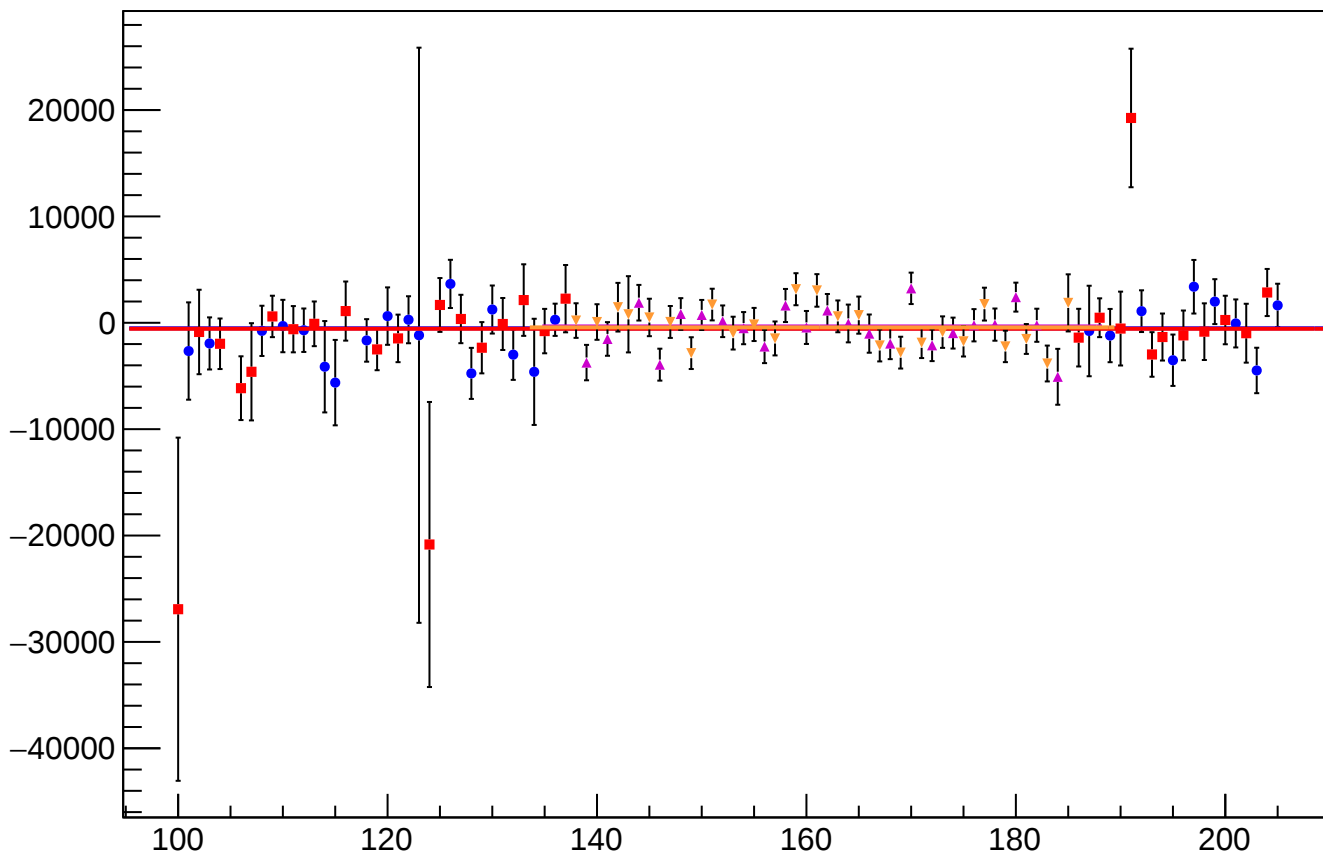
Right: 1363.342+/-0.270 χ^2/NDF : 952621.6/19

In: 1386.076+/-0.396 χ^2/NDF : 290217.6/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1363.342+/-0.270 χ^2/NDF : 952621.6/19

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -517.428+/-476.068 χ^2 /NDF: 23.4/25

Left Out: -431.715+/-320.540 χ^2 /NDF:33.1/24

Right Out: -561.718+/-464.475 χ^2 /NDF: 28.2/29

Left In: -343.737+/-324.368 χ^2 /NDF:33.8/22

Left: -388.248+/-227.997 χ^2 /NDF: 66.9/47

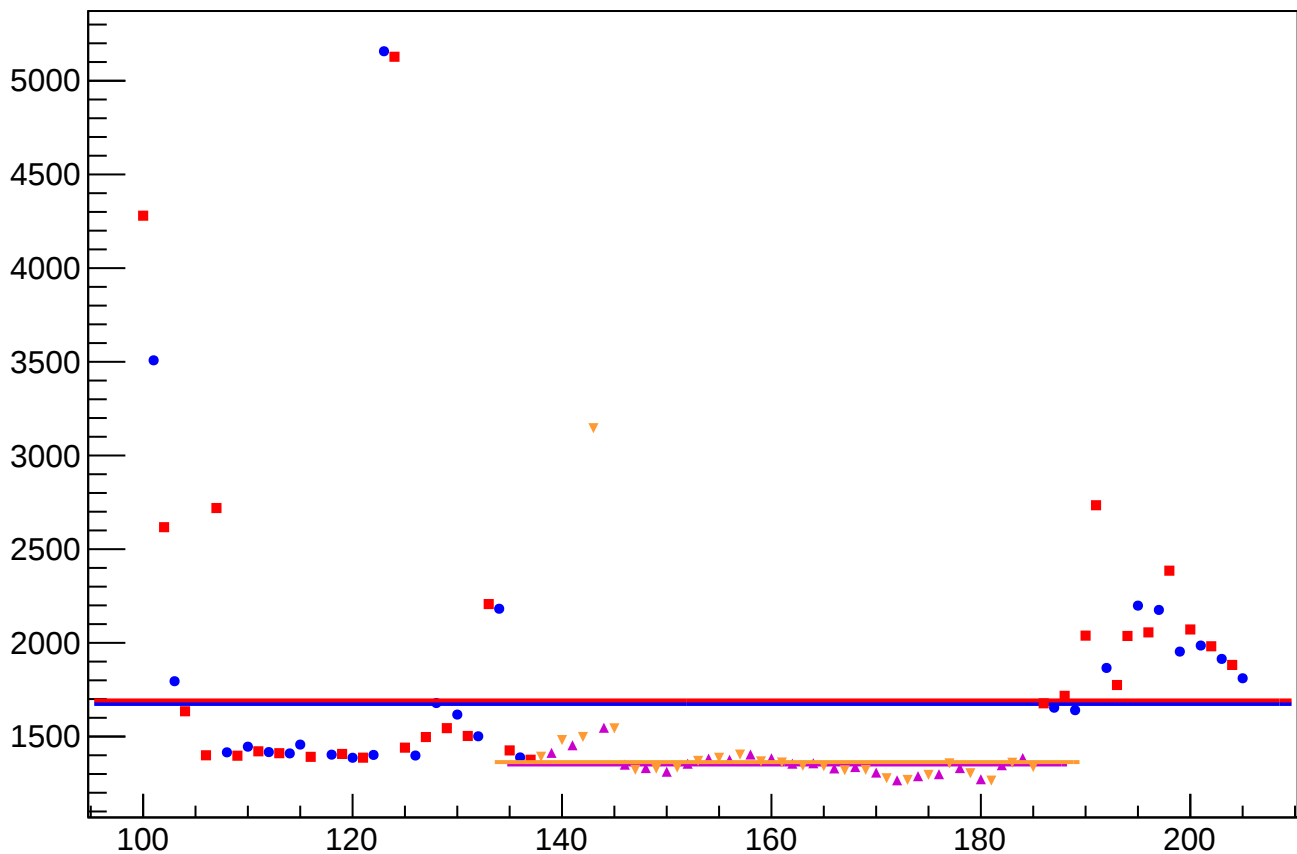
Right: -540.119+/-332.456 χ^2 /NDF: 51.6/55

In: -398.806+/-268.061 χ^2 /NDF:57.3/48

Out: -473.655+/-263.816 χ^2 /NDF:61.3/54

All: -436.828+/-188.029 χ^2 /NDF: 118.7/103

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1674.034+/-0.337 χ^2/NDF : 969411.5/25

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1692.635+/-0.328 χ^2/NDF : 1180919.2/29

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

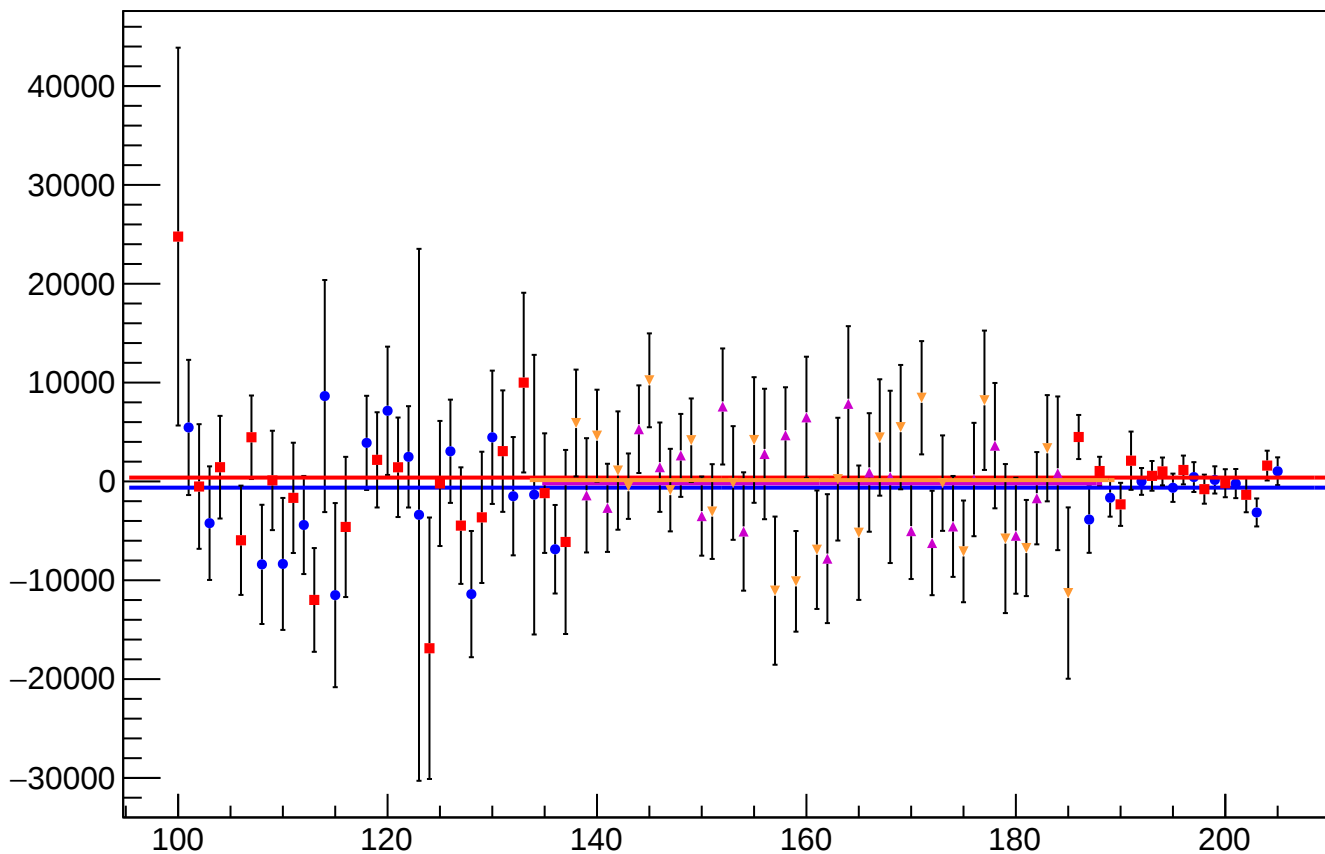
Right: 1683.564+/-0.235 χ^2/NDF : 2151895.0/55

In: 1453.356+/-0.190 χ^2/NDF : 1665805.8/48

Out: 1469.724+/-0.187 χ^2/NDF : 2436183.0/54

All: 1461.671+/-0.133 χ^2/NDF : 4105776.9/100

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -629.939 ± 484.673 χ^2/NDF : 22.2/25

Left Out: 132.142 ± 1065.543 χ^2/NDF : 28.1/24

Right Out: 388.284 ± 462.723 χ^2/NDF : 23.3/29

Left In: -200.182 ± 1123.499 χ^2/NDF : 14.7/22

Left: -25.227 ± 773.130 χ^2/NDF : 42.9/47

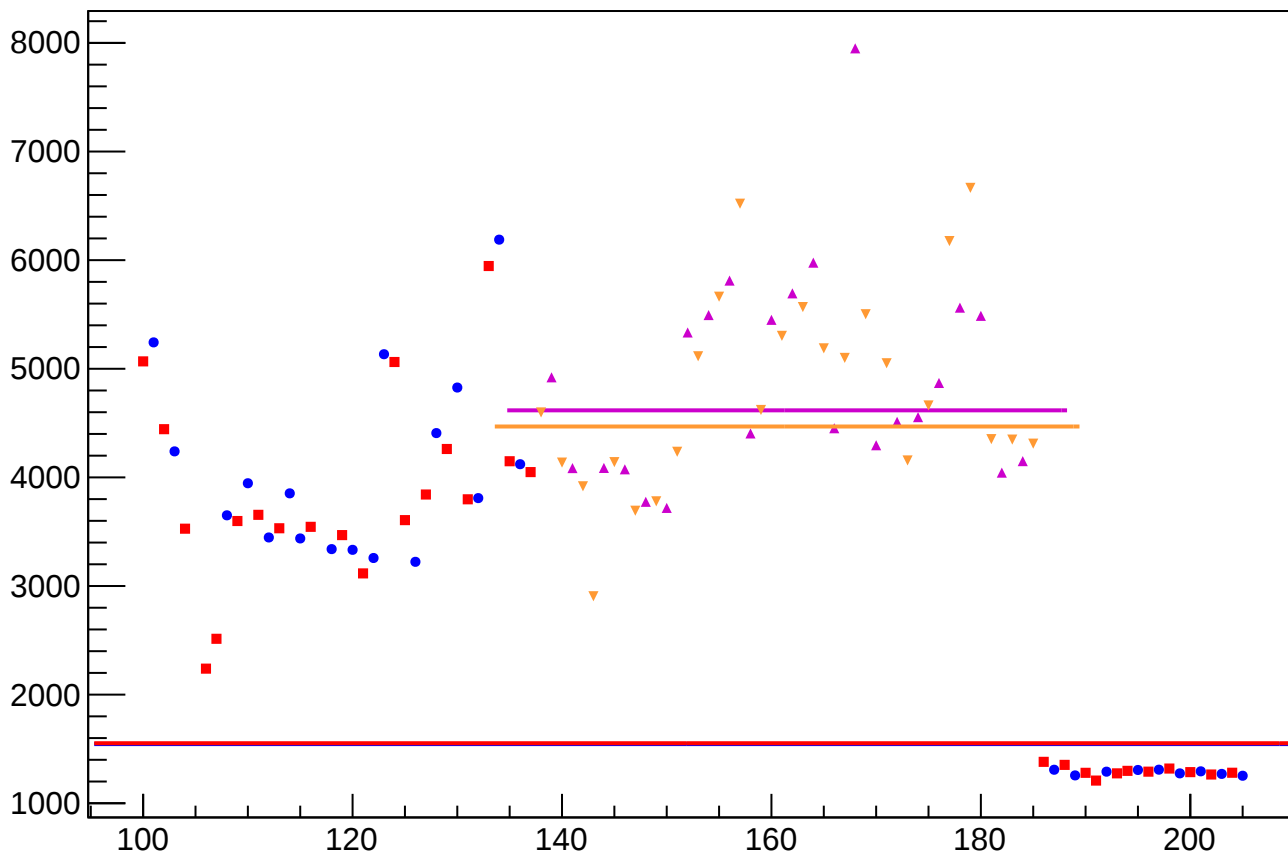
Right: -97.250 ± 334.686 χ^2/NDF : 47.8/55

In: -562.509 ± 445.028 χ^2/NDF : 37.1/48

Out: 347.644 ± 424.431 χ^2/NDF : 51.5/54

All: -85.883 ± 307.142 χ^2/NDF : 90.7/103

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1544.652+/-0.343 χ^2/NDF : 5447518.4/25

Left Out: 4468.520+/-0.753 χ^2/NDF :1380601.0/24

Right Out: 1552.619+/-0.327 χ^2/NDF : 5265271.6/29

Left In: 4617.293+/-0.794 χ^2/NDF :999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

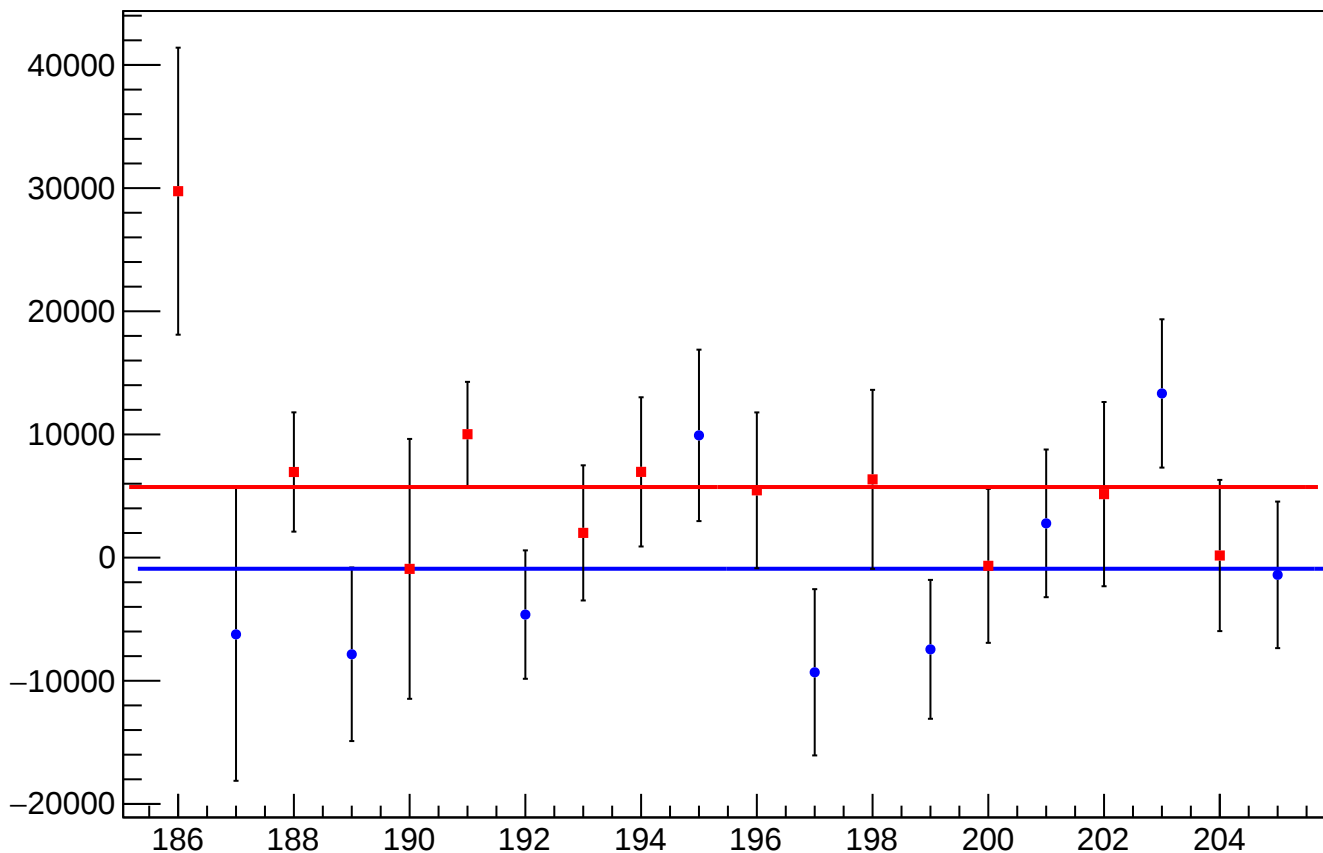
Right: 1548.824+/-0.237 χ^2/NDF : 10713072.9/55

In: 2026.755+/-0.315 χ^2/NDF :19059179.3/48

Out: 2014.454+/-0.300 χ^2/NDF :19250995.6/54

All: 2020.308+/-0.217 χ^2/NDF : 38310975.7/100

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -904.841+/-2123.751 χ^2/NDF : 13.0/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5731.208+/-1861.012 χ^2/NDF : 8.1/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

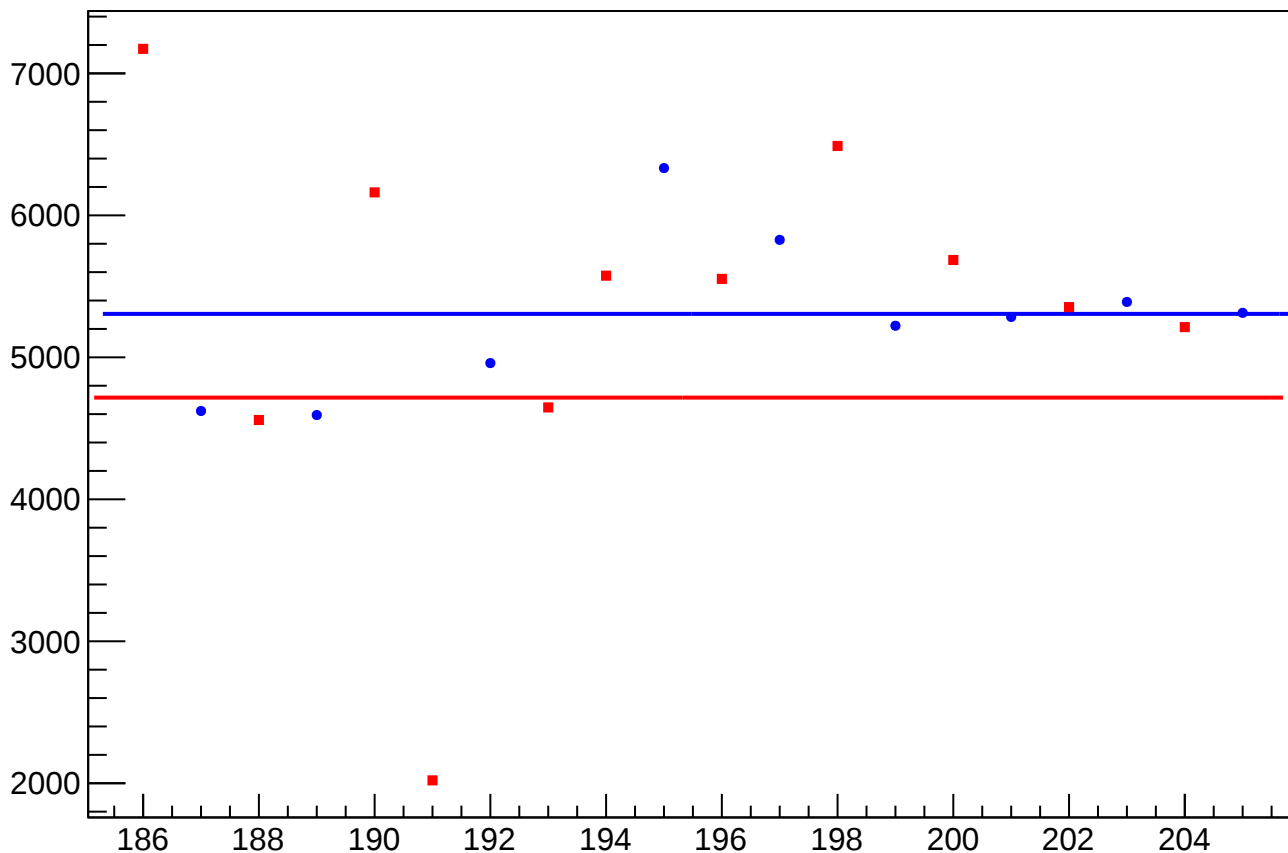
Right: 2848.845+/-1399.662 χ^2/NDF : 26.6/19

In: -904.841+/-2123.751 χ^2/NDF : 13.0/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 2848.845+/-1399.662 χ^2/NDF : 26.6/19

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5306.031+/-1.502 χ^2/NDF : 92231.3/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4716.375+/-1.316 χ^2/NDF : 1203550.5/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

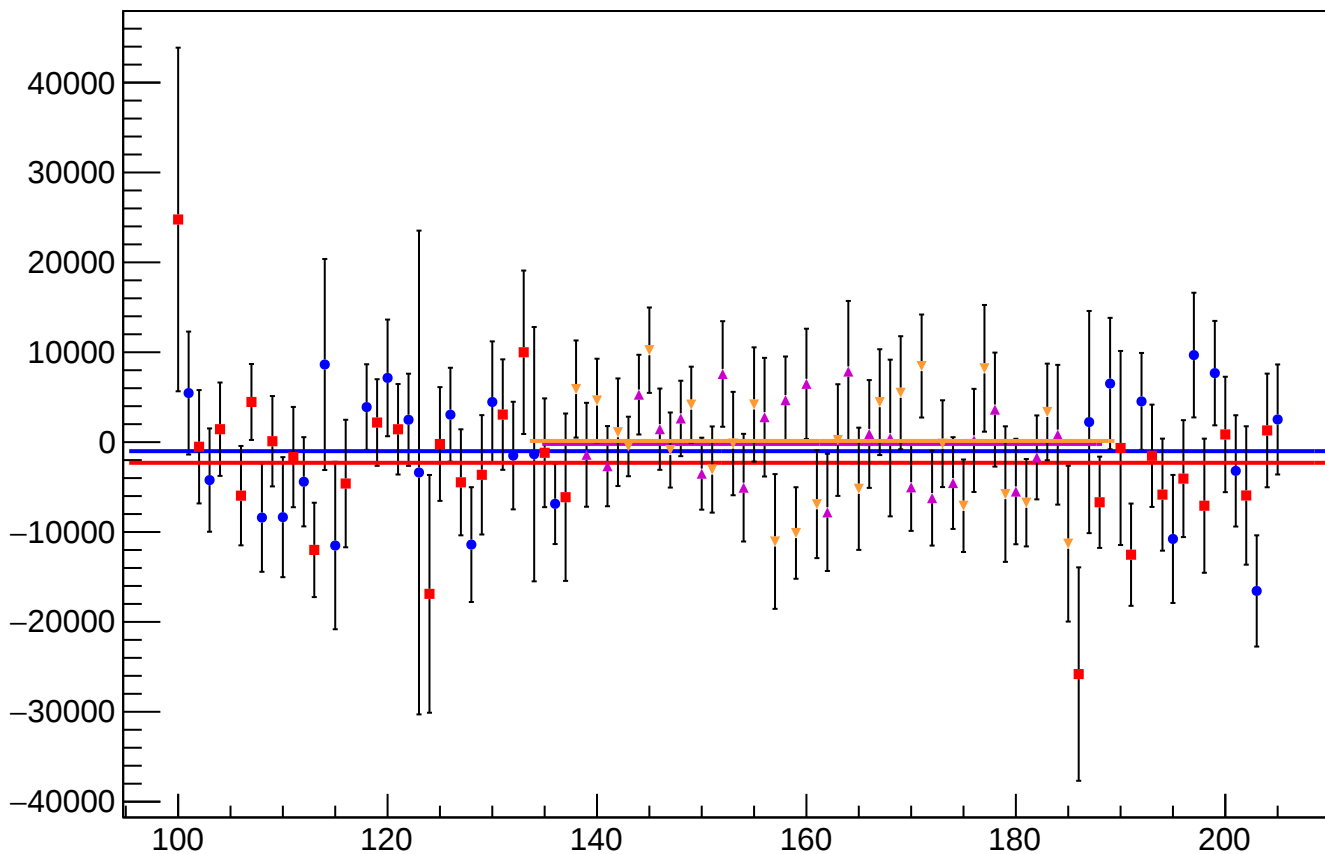
Right: 4972.491+/-0.990 χ^2/NDF : 1382992.2/19

In: 5306.031+/-1.502 χ^2/NDF : 92231.3/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4972.491+/-0.990 χ^2/NDF : 1382992.2/19

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1005.082 ± 1247.269 $\chi^2/\text{NDF}: 30.5/25$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -2298.533 ± 1137.082 $\chi^2/\text{NDF}: 24.6/29$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

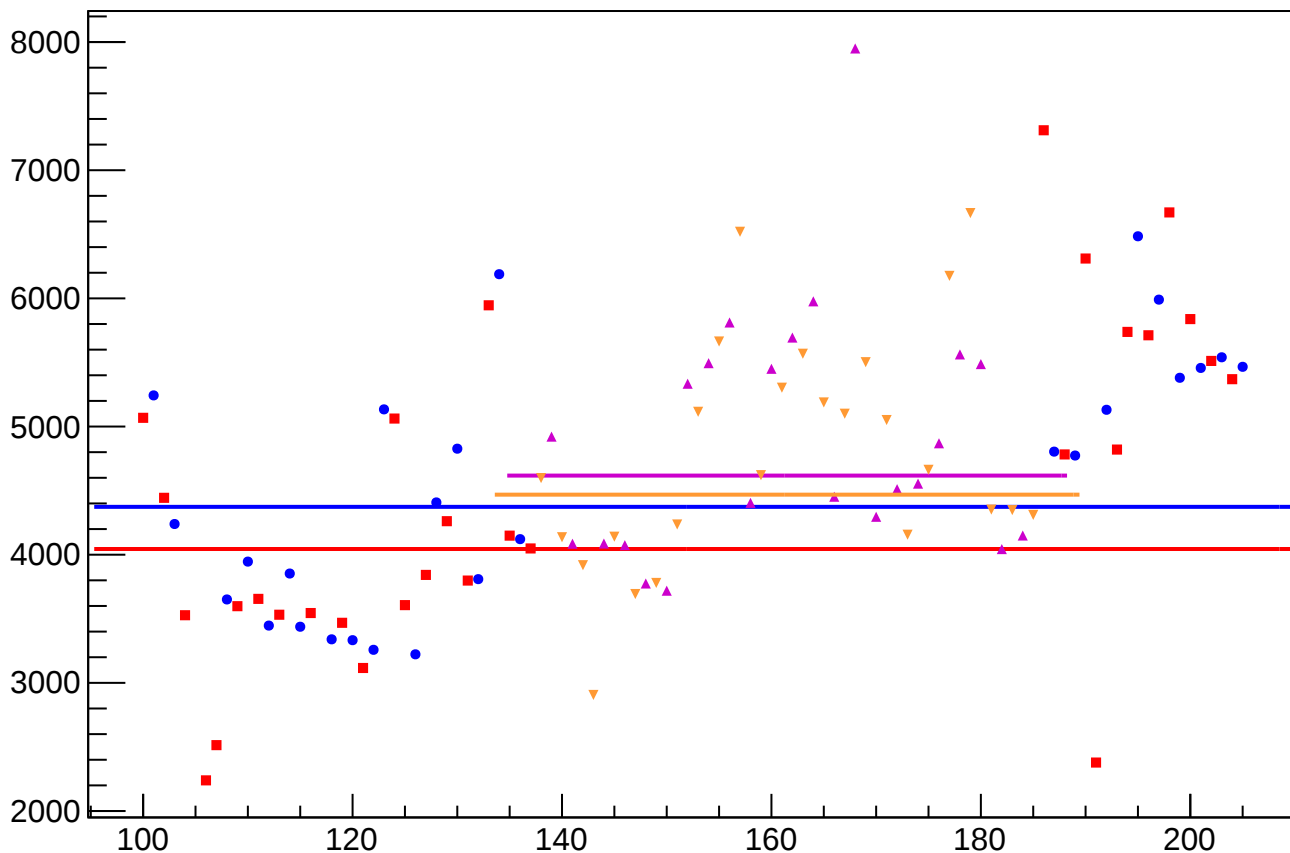
Right: -1711.454 ± 840.298 $\chi^2/\text{NDF}: 55.7/55$

In: -560.725 ± 834.772 $\chi^2/\text{NDF}: 45.5/48$

Out: -1004.333 ± 777.514 $\chi^2/\text{NDF}: 55.2/54$

All: -798.263 ± 568.952 $\chi^2/\text{NDF}: 100.8/103$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4373.413+/-0.882 χ^2/NDF : 1157792.9/25

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 4044.488+/-0.799 χ^2/NDF : 2174873.1/29

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

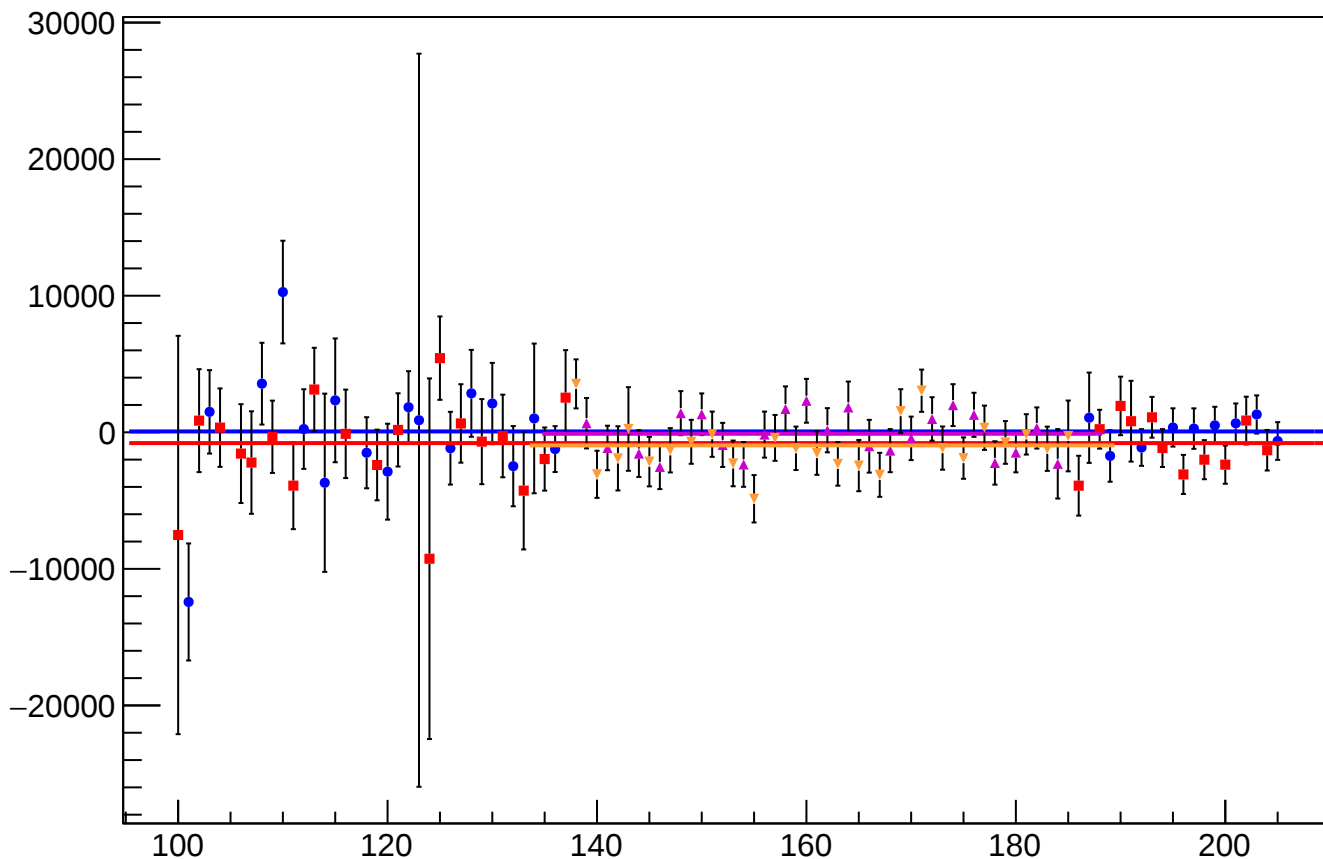
Right: 4192.770+/-0.592 χ^2/NDF : 3409056.7/55

In: 4508.048+/-0.590 χ^2/NDF : 2199607.3/48

Out: 4268.946+/-0.548 χ^2/NDF : 3704543.5/54

All: 4379.670+/-0.402 χ^2/NDF : 5992250.8/10

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 62.437 ± 418.759 $\chi^2/\text{NDF}: 25.5/25$

Left Out: -958.410 ± 339.496 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -790.438 ± 404.355 $\chi^2/\text{NDF}: 22.3/29$

Left In: -107.512 ± 343.663 $\chi^2/\text{NDF}: 19.5/22$

Left: -538.150 ± 241.520 $\chi^2/\text{NDF}: 51.1/47$

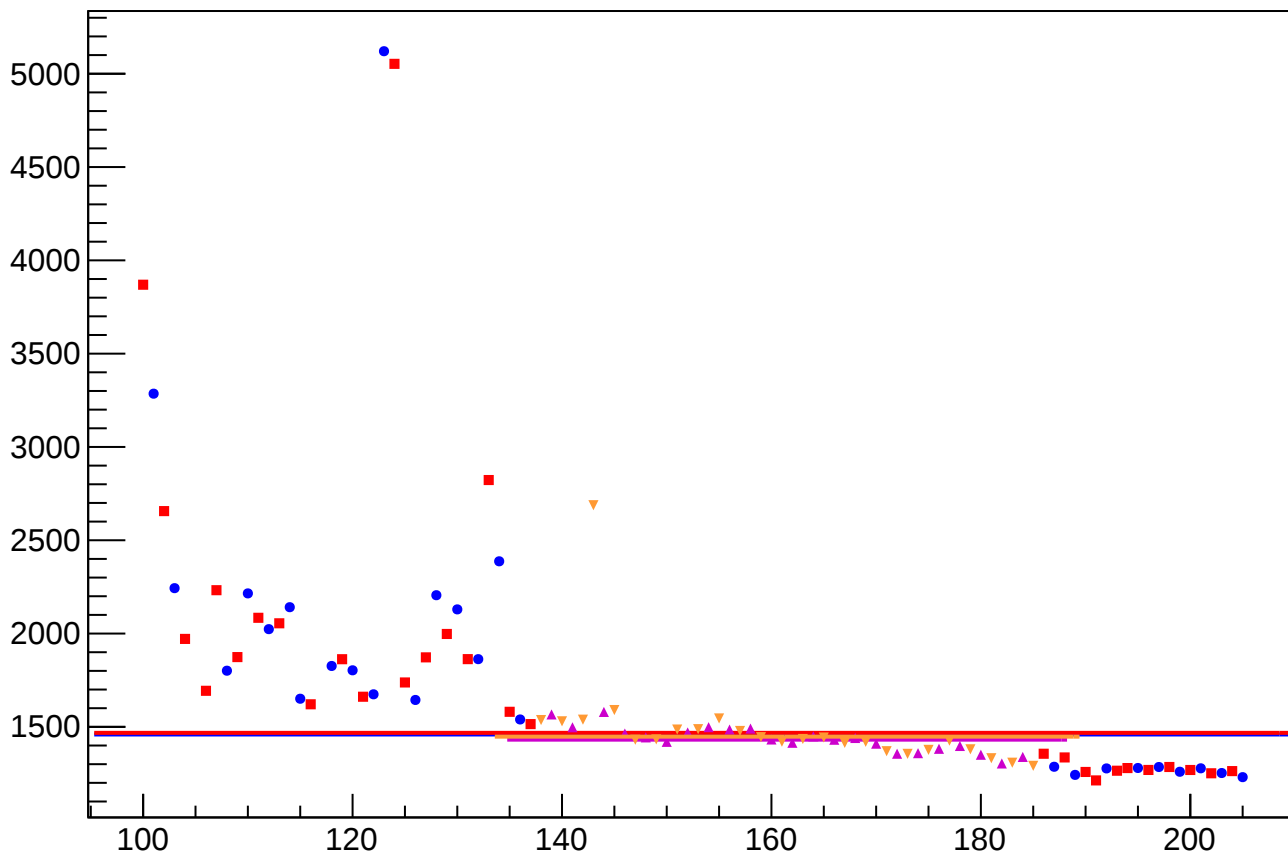
Right: -378.921 ± 290.881 $\chi^2/\text{NDF}: 50.0/55$

In: -39.116 ± 265.656 $\chi^2/\text{NDF}: 45.1/48$

Out: -888.959 ± 260.005 $\chi^2/\text{NDF}: 50.9/54$

All: -473.173 ± 185.817 $\chi^2/\text{NDF}: 101.2/103$

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1459.136+/-0.296 χ^2/NDF : 1434529.8/25

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1467.893+/-0.286 χ^2/NDF : 1471433.6/29

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

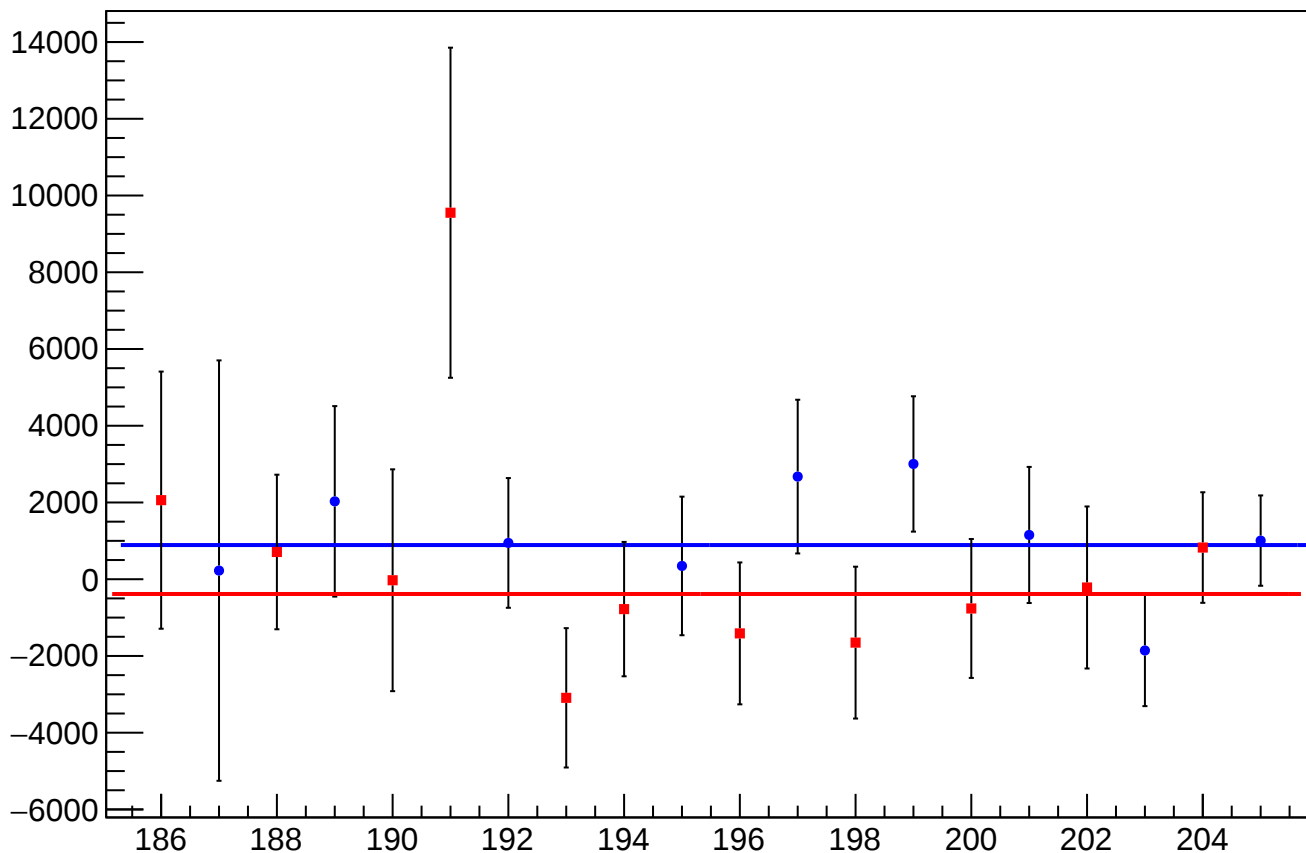
Right: 1463.668+/-0.206 χ^2/NDF : 2906416.0/55

In: 1442.595+/-0.188 χ^2/NDF : 1514882.0/48

Out: 1455.964+/-0.184 χ^2/NDF : 1893656.3/54

All: 1449.423+/-0.131 χ^2/NDF : 3411125.0/100

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 890.624+/-583.404 χ^2/NDF : 6.2/8

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -384.909+/-608.853 χ^2/NDF : 9.9/10

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

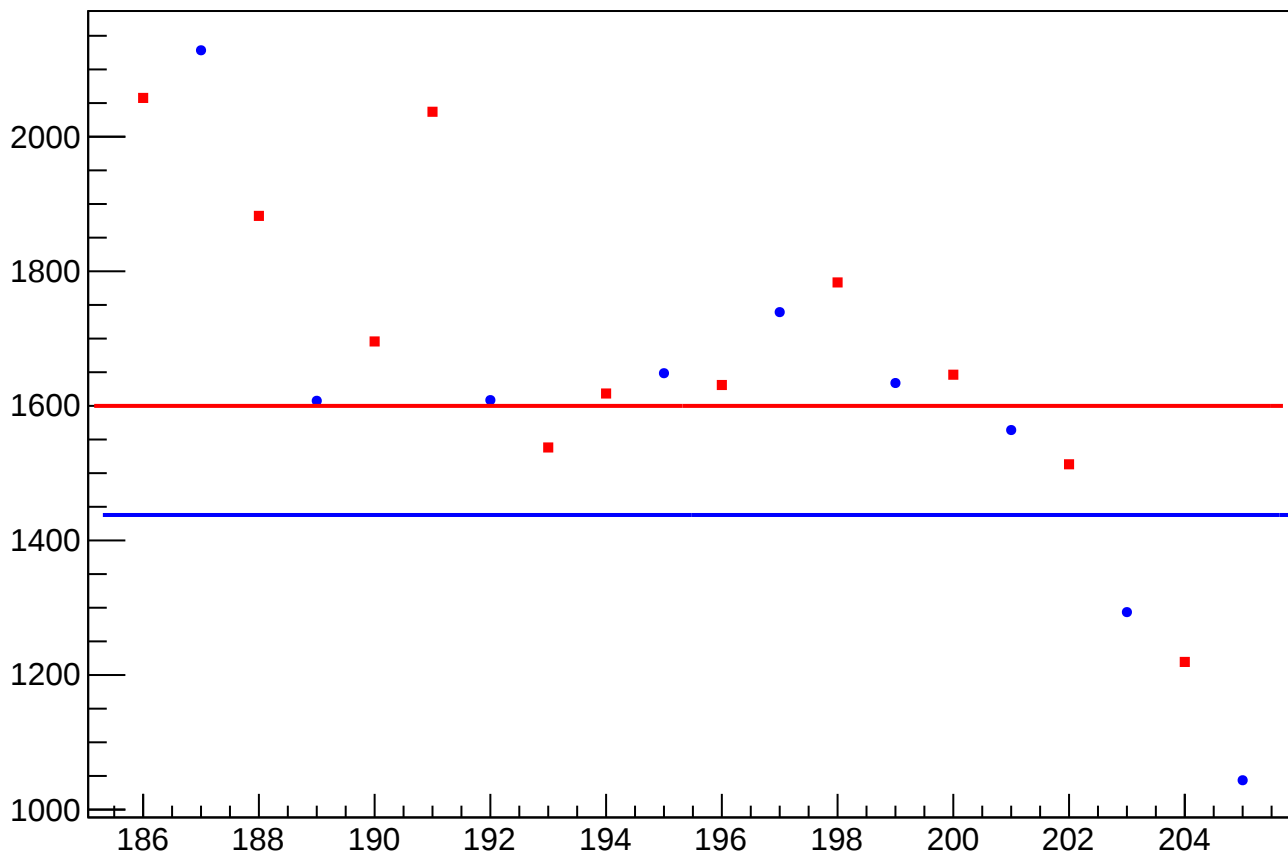
Right: 280.072+/-421.239 χ^2/NDF : 18.4/19

In: 890.624+/-583.404 χ^2/NDF : 6.2/8

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 280.072+/-421.239 χ^2/NDF : 18.4/19

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1437.844+/-0.413 χ^2/NDF : 413149.1/8

Left Out: 0.000+/-0.000 χ^2/NDF :0.0/0

Right Out: 1599.960+/-0.431 χ^2/NDF : 263938.0/10

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

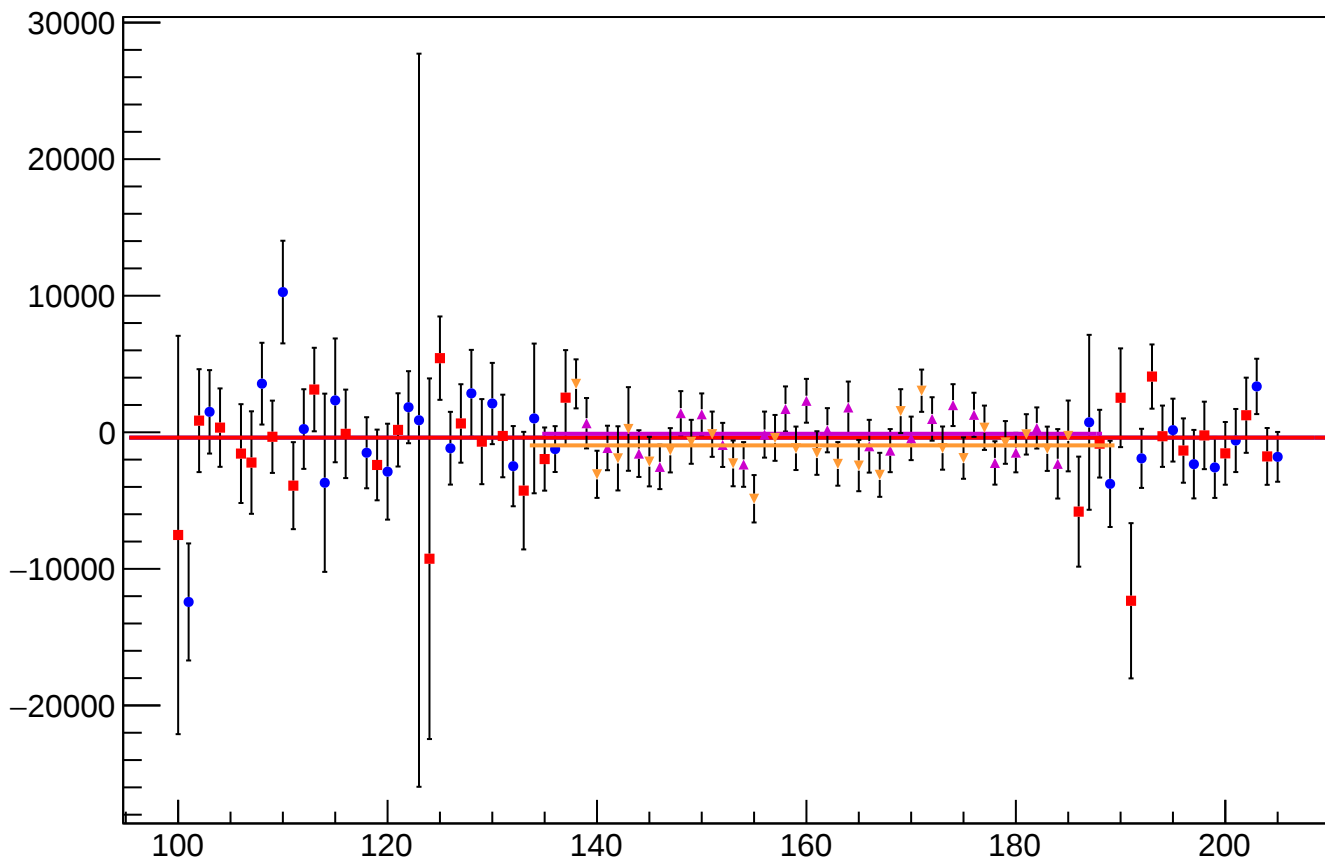
Right: 1515.443+/-0.298 χ^2/NDF : 751009.1/19

In: 1437.844+/-0.413 χ^2/NDF :413149.1/8

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 1515.443+/-0.298 χ^2/NDF : 751009.1/19

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -391.356+/-543.718 χ^2/NDF : 30.1/25

Left Out: -958.410+/-339.496 χ^2/NDF :28.5/24

Right Out: -390.102+/-538.116 χ^2/NDF : 21.9/29

Left In: -107.512+/-343.663 χ^2/NDF :19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

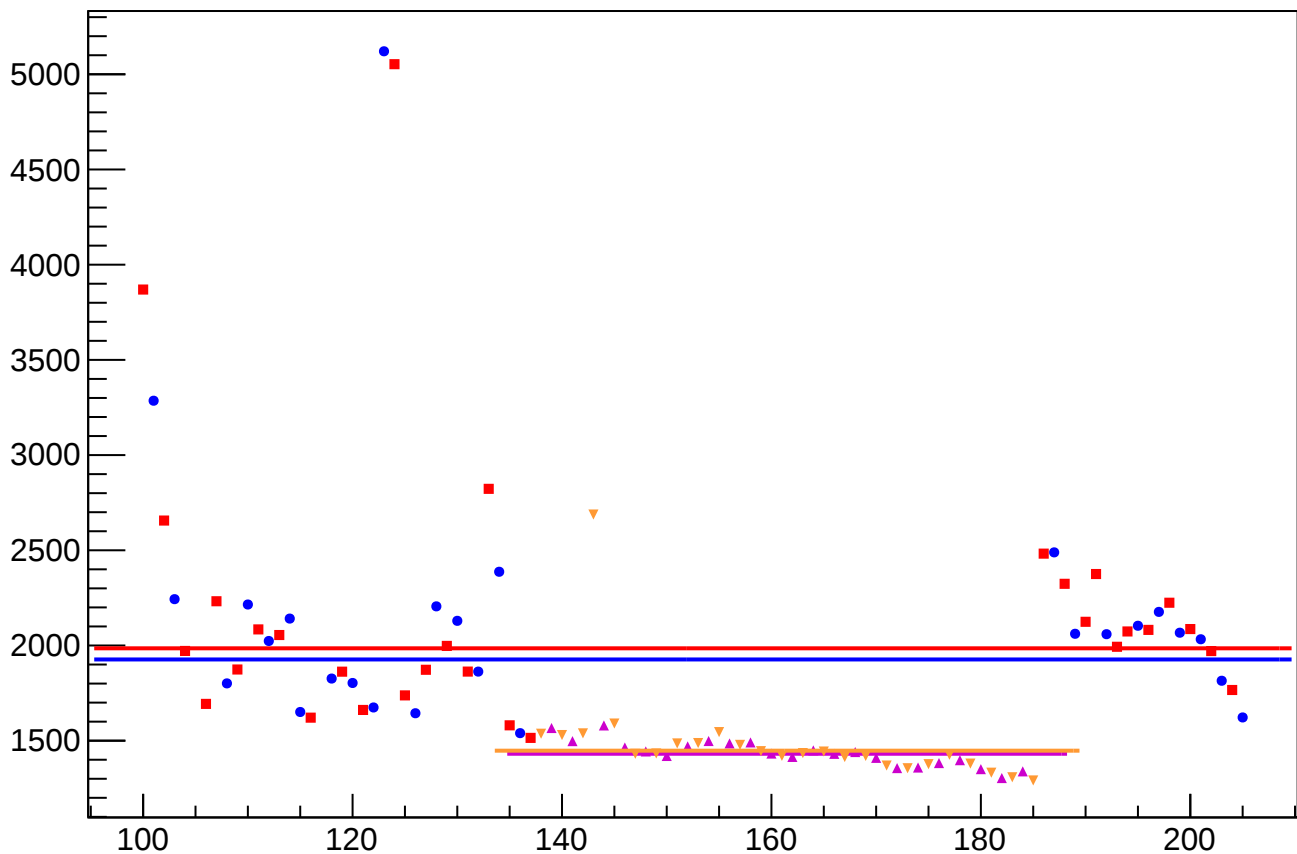
Right: -390.722+/-382.471 χ^2/NDF : 52.0/55

In: -188.538+/-290.500 χ^2/NDF :49.7/48

Out: -796.608+/-287.129 χ^2/NDF :51.2/54

All: -496.122+/-204.212 χ^2/NDF : 103.2/103

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1926.641 $\pm$ 0.384 χ^2 /NDF: 602580.9/25

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF:419254.7/24

Right Out: 1985.169 $\pm$ 0.381 χ^2 /NDF: 616426.1/29

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

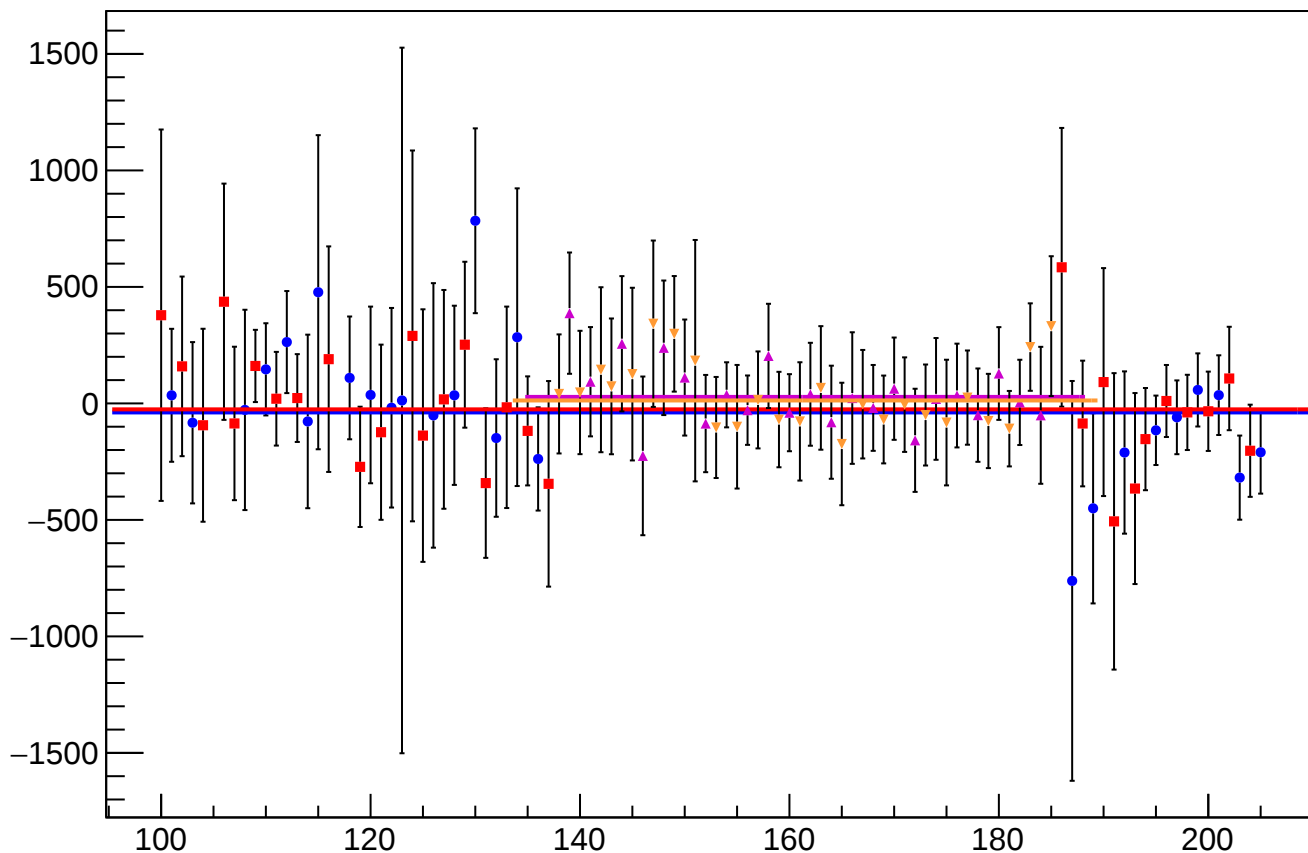
Right: 1956.208 $\pm$ 0.270 χ^2 /NDF: 1230714.3/55

In: 1572.812 $\pm$ 0.205 χ^2 /NDF:1863064.5/48

Out: 1600.620 $\pm$ 0.203 χ^2 /NDF:2463614.8/54

All: 1586.878 $\pm$ 0.144 χ^2 /NDF: 4335949.7/100

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -38.734 ± 50.342 χ^2/NDF : 15.5/25

Left Out: 12.618 ± 47.486 χ^2/NDF : 7.7/24

Right Out: -25.575 ± 49.121 χ^2/NDF : 10.6/29

Left In: 27.921 ± 44.523 χ^2/NDF : 6.5/22

Left: 20.762 ± 32.480 χ^2/NDF : 14.3/47

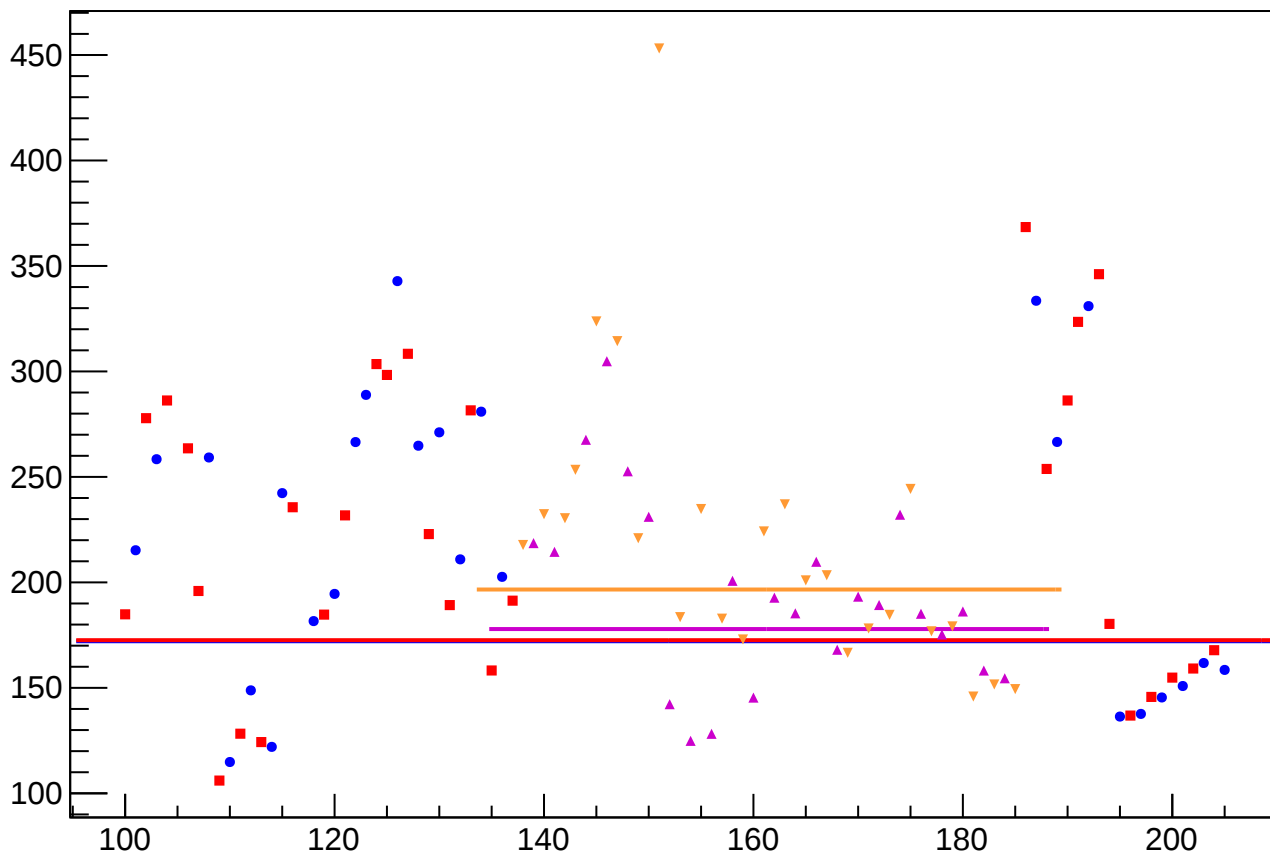
Right: -31.993 ± 35.157 χ^2/NDF : 26.1/55

In: -1.334 ± 33.351 χ^2/NDF : 23.0/48

Out: -5.832 ± 34.141 χ^2/NDF : 18.5/54

All: -3.530 ± 23.857 χ^2/NDF : 41.5/103

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.099 $\pm$ 0.036 χ^2 /NDF: 2073145.6/25

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 172.599 $\pm$ 0.035 χ^2 /NDF: 2741179.2/29

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

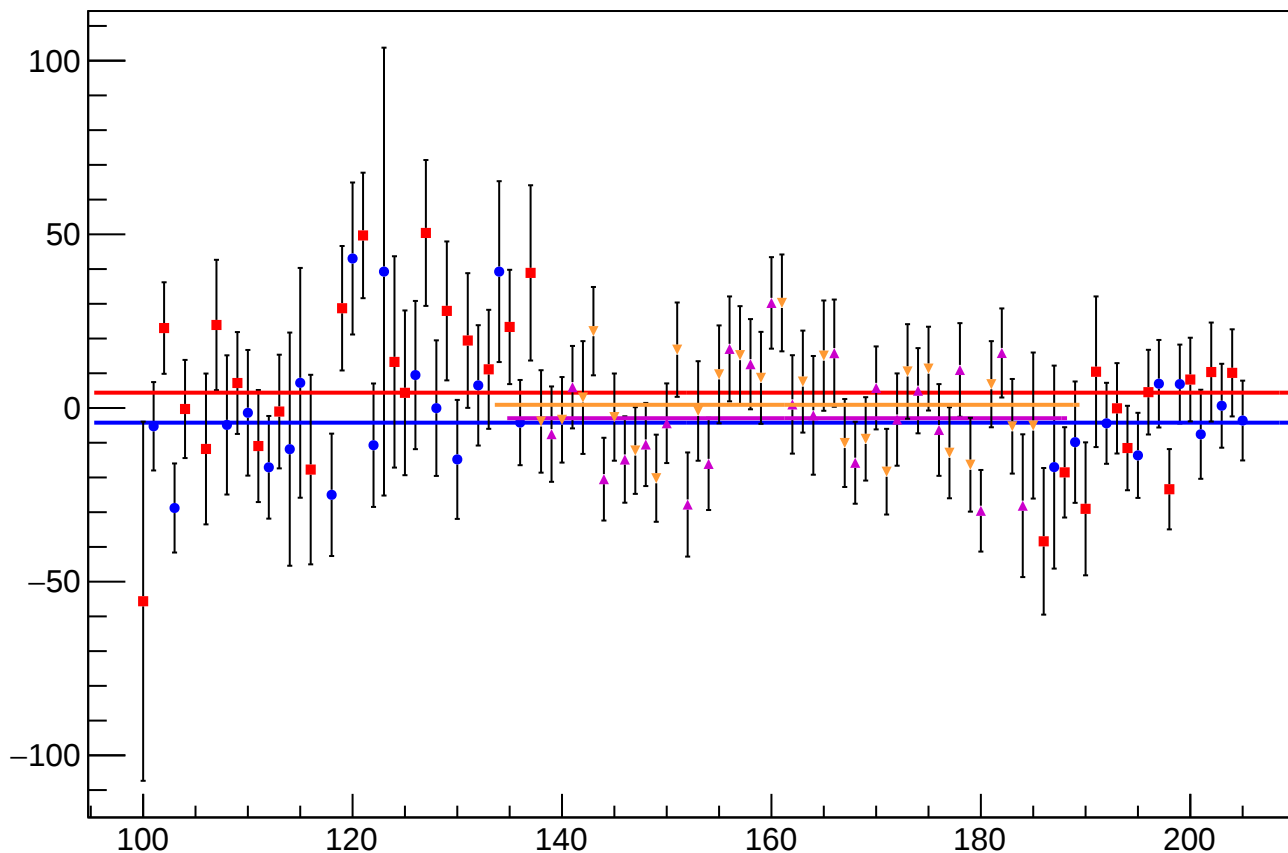
Right: 172.355 $\pm$ 0.025 χ^2 /NDF: 4814425.9/55

In: 175.342 $\pm$ 0.024 χ^2 /NDF:3732018.4/48

Out: 185.016 $\pm$ 0.024 χ^2 /NDF:4781907.3/54

All: 180.065 $\pm$ 0.017 χ^2 /NDF: 8596098.8/103

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.223 ± 3.077 χ^2/NDF : 18.2/25

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 4.413 ± 2.976 χ^2/NDF : 43.6/29

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

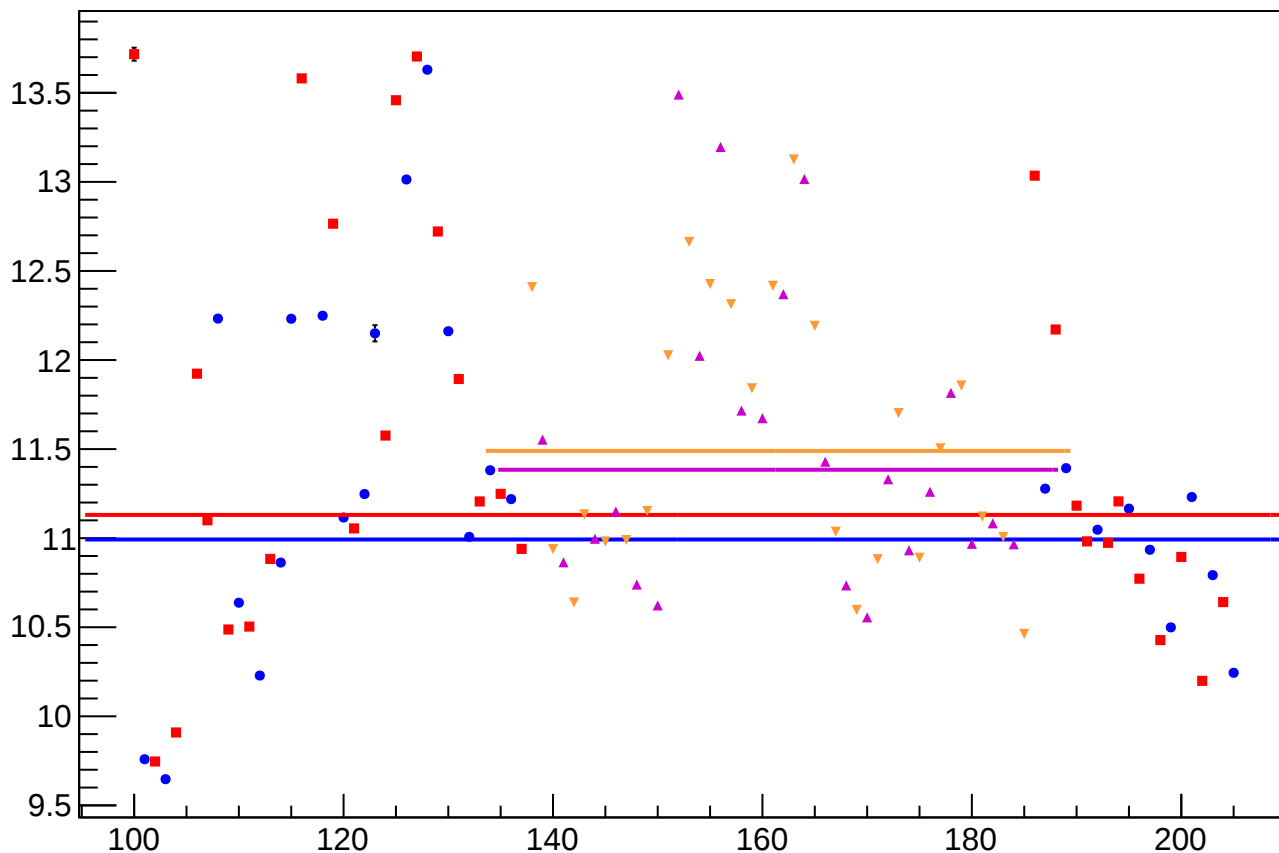
Right: 0.239 ± 2.139 χ^2/NDF : 65.8/55

In: -3.509 ± 2.048 χ^2/NDF : 49.3/48

Out: 2.494 ± 1.998 χ^2/NDF : 68.3/54

All: -0.433 ± 1.430 χ^2/NDF : 122.0/103

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.993 ± 0.002 $\chi^2/\text{NDF}: 148824.5/25$

Left Out: 11.490 ± 0.002 $\chi^2/\text{NDF}: 132399.1/24$

Right Out: 11.131 ± 0.002 $\chi^2/\text{NDF}: 201615.5/29$

Left In: 11.384 ± 0.002 $\chi^2/\text{NDF}: 149799.6/22$

Left: 11.438 ± 0.001 $\chi^2/\text{NDF}: 283707.5/47$

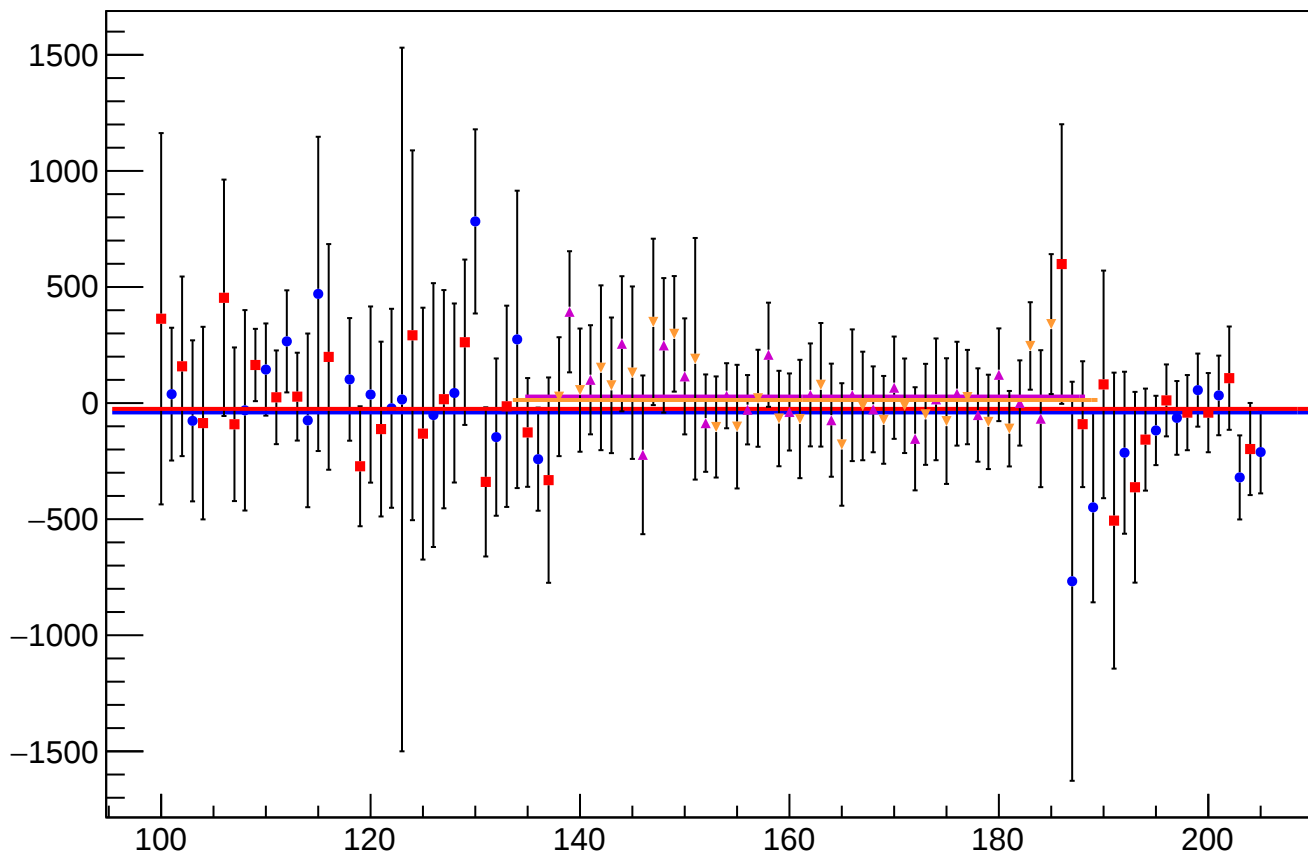
Right: 11.064 ± 0.002 $\chi^2/\text{NDF}: 352517.6/55$

In: 11.211 ± 0.001 $\chi^2/\text{NDF}: 316648.4/48$

Out: 11.328 ± 0.001 $\chi^2/\text{NDF}: 350011.4/54$

All: 11.271 ± 0.001 $\chi^2/\text{NDF}: 670017.3/103$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -40.293 ± 50.472 $\chi^2/\text{NDF}: 15.4/25$

Left Out: 13.323 ± 47.662 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -25.010 ± 49.256 $\chi^2/\text{NDF}: 10.7/29$

Left In: 28.050 ± 44.681 $\chi^2/\text{NDF}: 6.6/22$

Left: 21.161 ± 32.597 $\chi^2/\text{NDF}: 14.6/47$

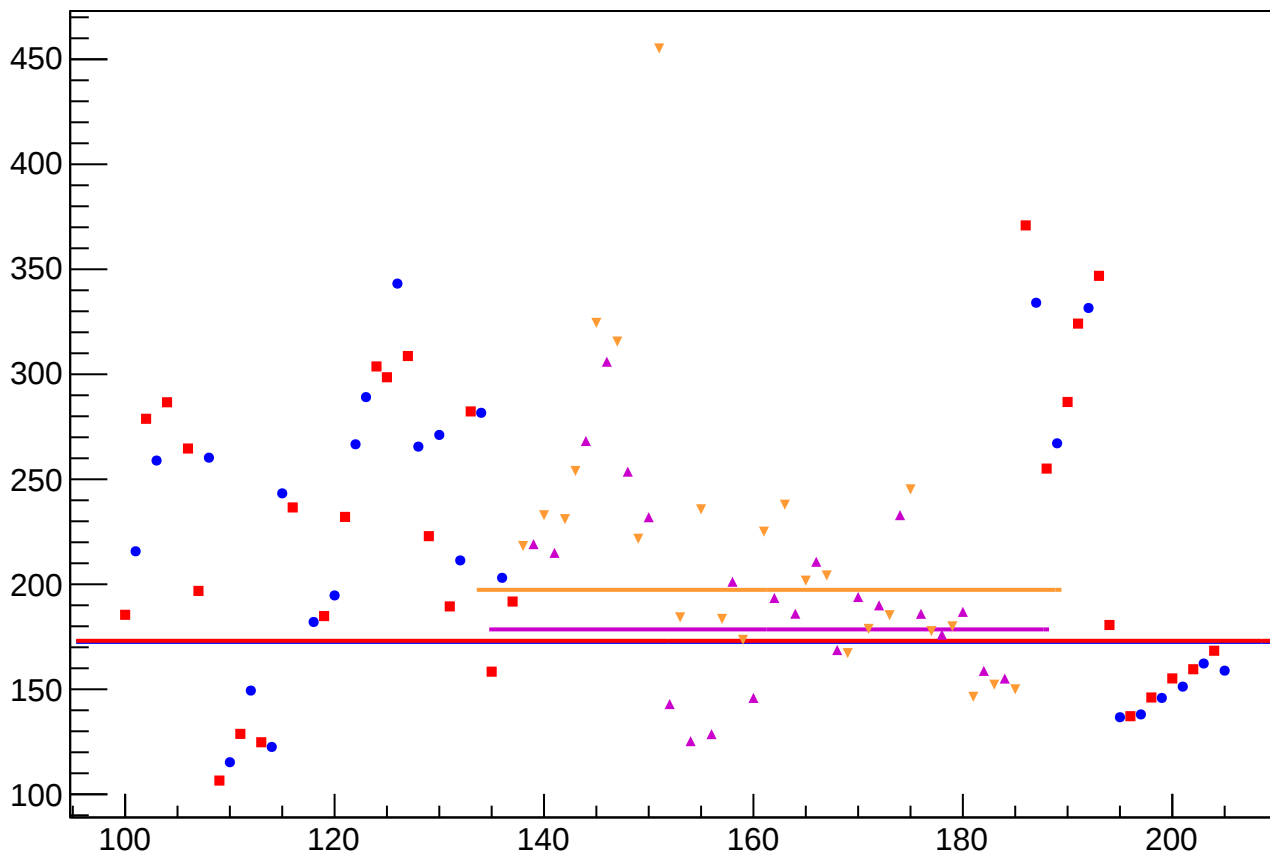
Right: -32.465 ± 35.252 $\chi^2/\text{NDF}: 26.1/55$

In: -1.978 ± 33.455 $\chi^2/\text{NDF}: 23.1/48$

Out: -5.213 ± 34.252 $\chi^2/\text{NDF}: 18.8/54$

All: -3.557 ± 23.933 $\chi^2/\text{NDF}: 41.9/103$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.564 $\pm$ 0.036 χ^2 /NDF: 2067862.4/25

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 173.091 $\pm$ 0.035 χ^2 /NDF: 2737109.6/29

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

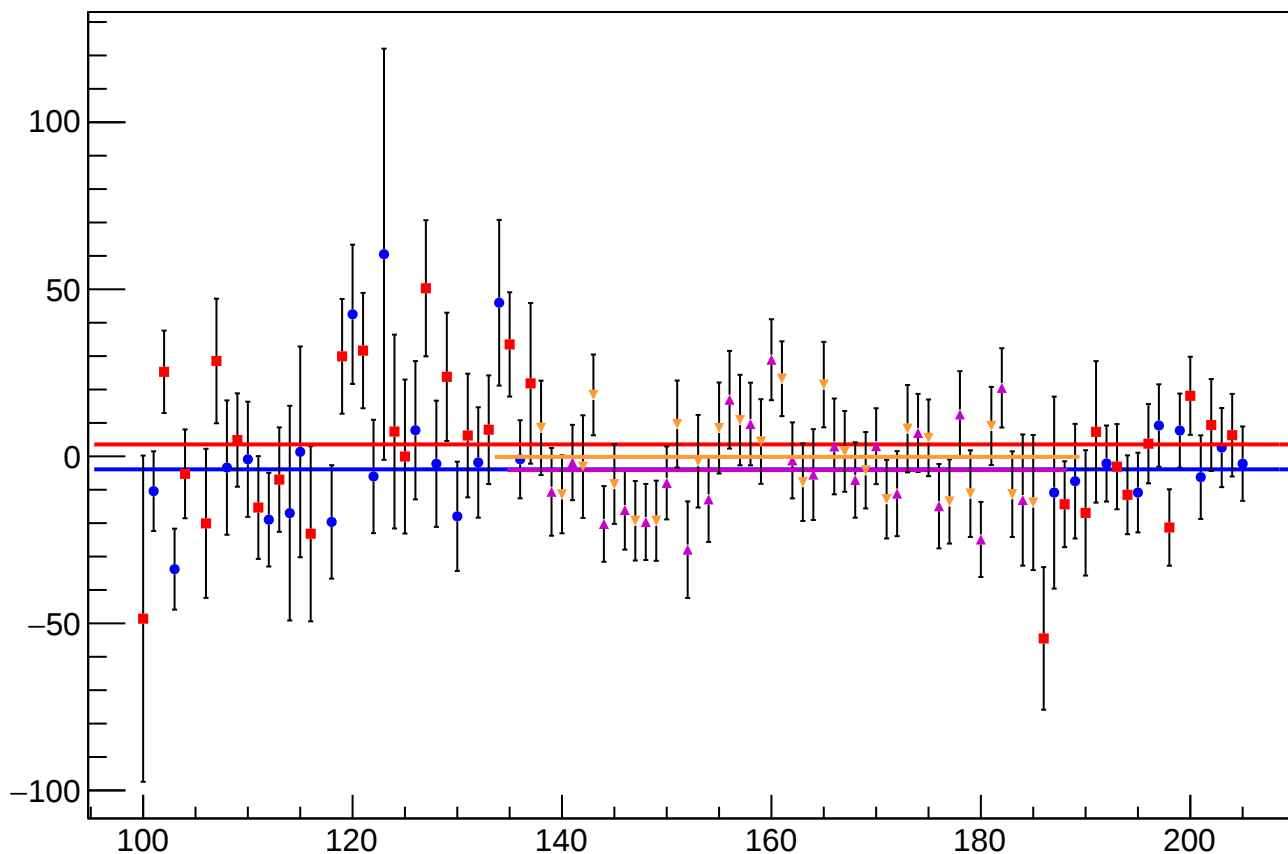
Right: 172.833 $\pm$ 0.025 χ^2 /NDF: 4805083.7/55

In: 175.899 $\pm$ 0.024 χ^2 /NDF:3725741.3/48

Out: 185.622 $\pm$ 0.024 χ^2 /NDF:4778589.4/54

All: 180.646 $\pm$ 0.017 χ^2 /NDF: 8586814.5/103

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.895 ± 2.969 $\chi^2/\text{NDF}: 22.9/25$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 3.568 ± 2.881 $\chi^2/\text{NDF}: 45.4/29$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

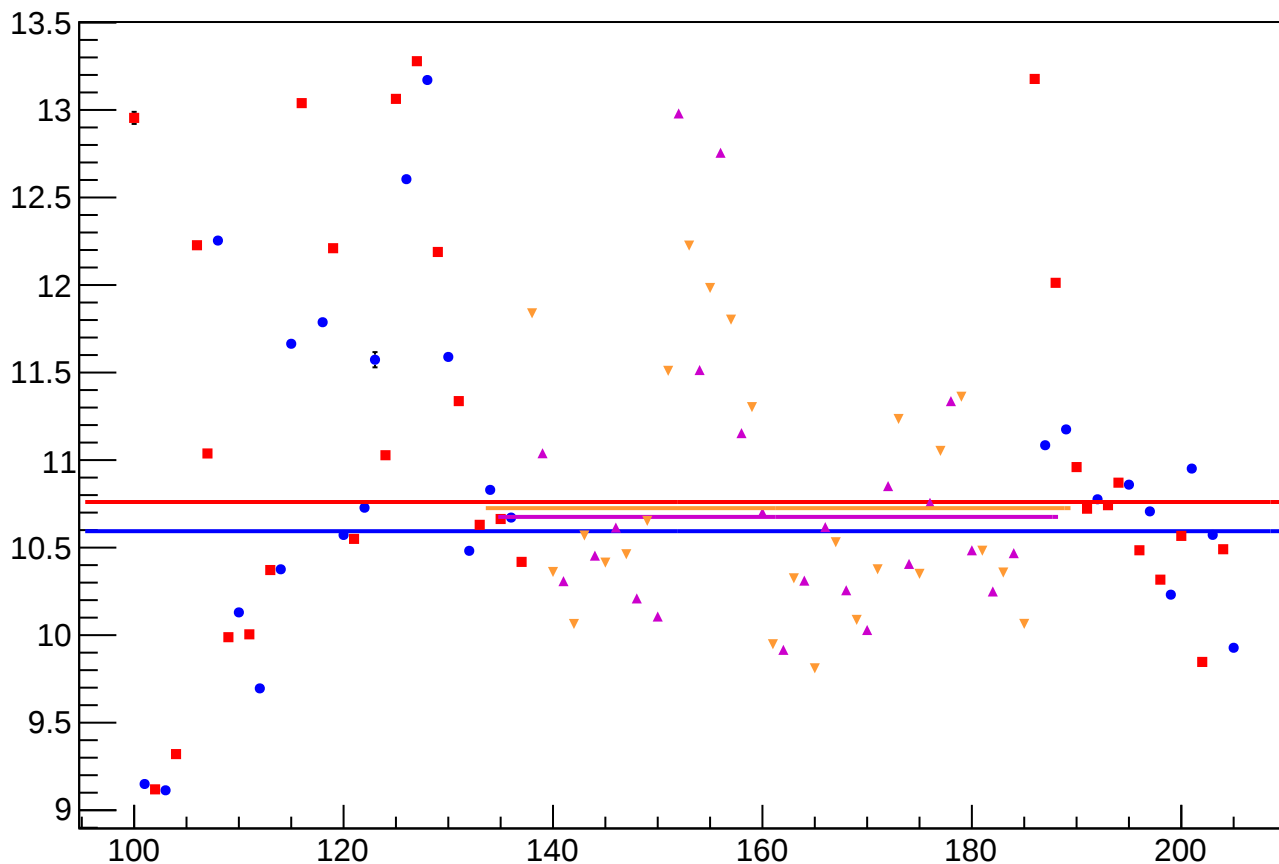
Right: -0.051 ± 2.068 $\chi^2/\text{NDF}: 71.5/55$

In: -4.016 ± 1.946 $\chi^2/\text{NDF}: 54.5/48$

Out: 1.450 ± 1.897 $\chi^2/\text{NDF}: 70.7/54$

All: -1.213 ± 1.359 $\chi^2/\text{NDF}: 129.2/103$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.594 $\pm$ 0.002 χ^2 /NDF: 174721.7/25

Left Out: 10.725 $\pm$ 0.002 χ^2 /NDF:132170.8/24

Right Out: 10.761 $\pm$ 0.002 χ^2 /NDF: 237651.1/29

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

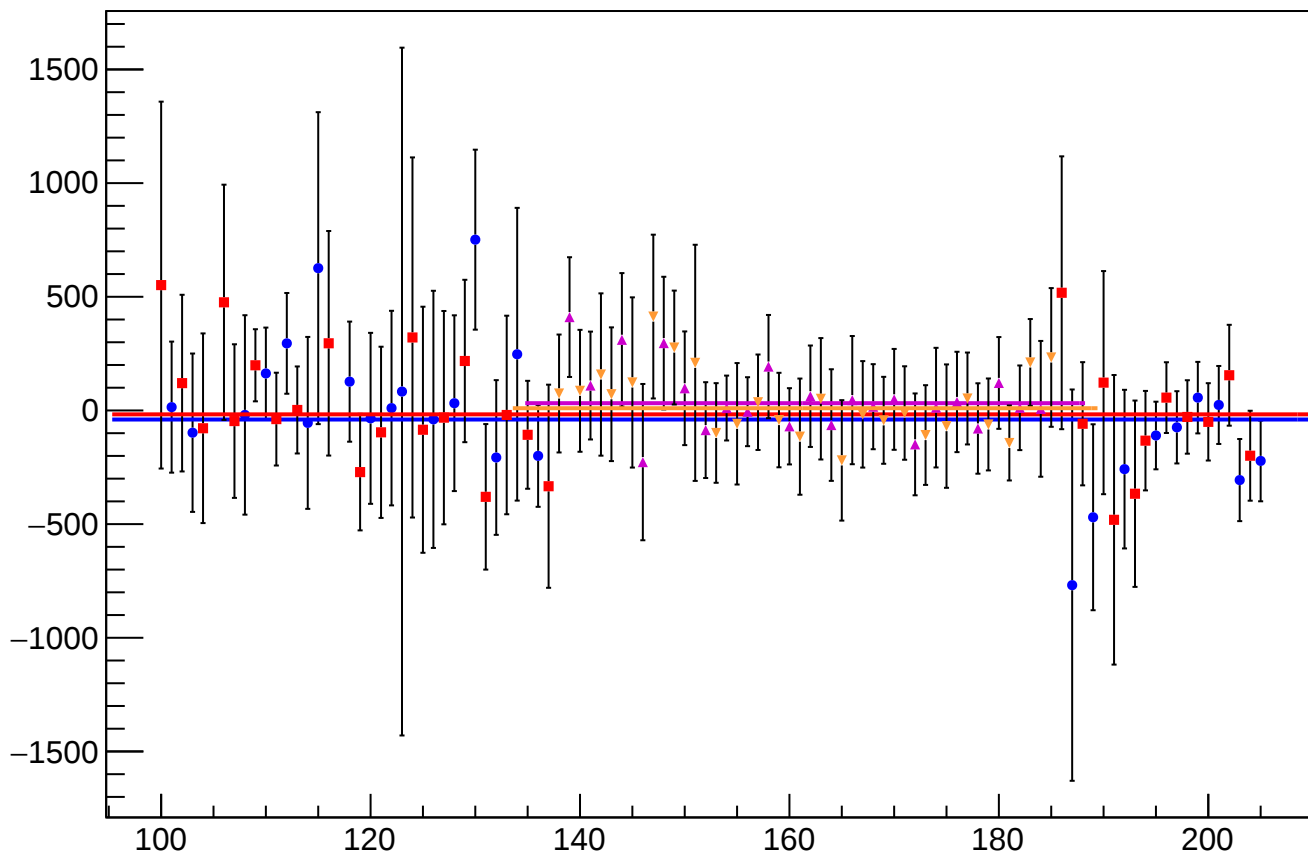
Right: 10.680 $\pm$ 0.001 χ^2 /NDF: 415619.1/55

In: 10.640 $\pm$ 0.001 χ^2 /NDF:321520.5/48

Out: 10.741 $\pm$ 0.001 χ^2 /NDF:369990.0/54

All: 10.692 $\pm$ 0.001 χ^2 /NDF: 694233.7/103

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -39.902 ± 50.565 $\chi^2/\text{NDF}: 15.9/25$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -17.189 ± 49.455 $\chi^2/\text{NDF}: 11.6/29$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

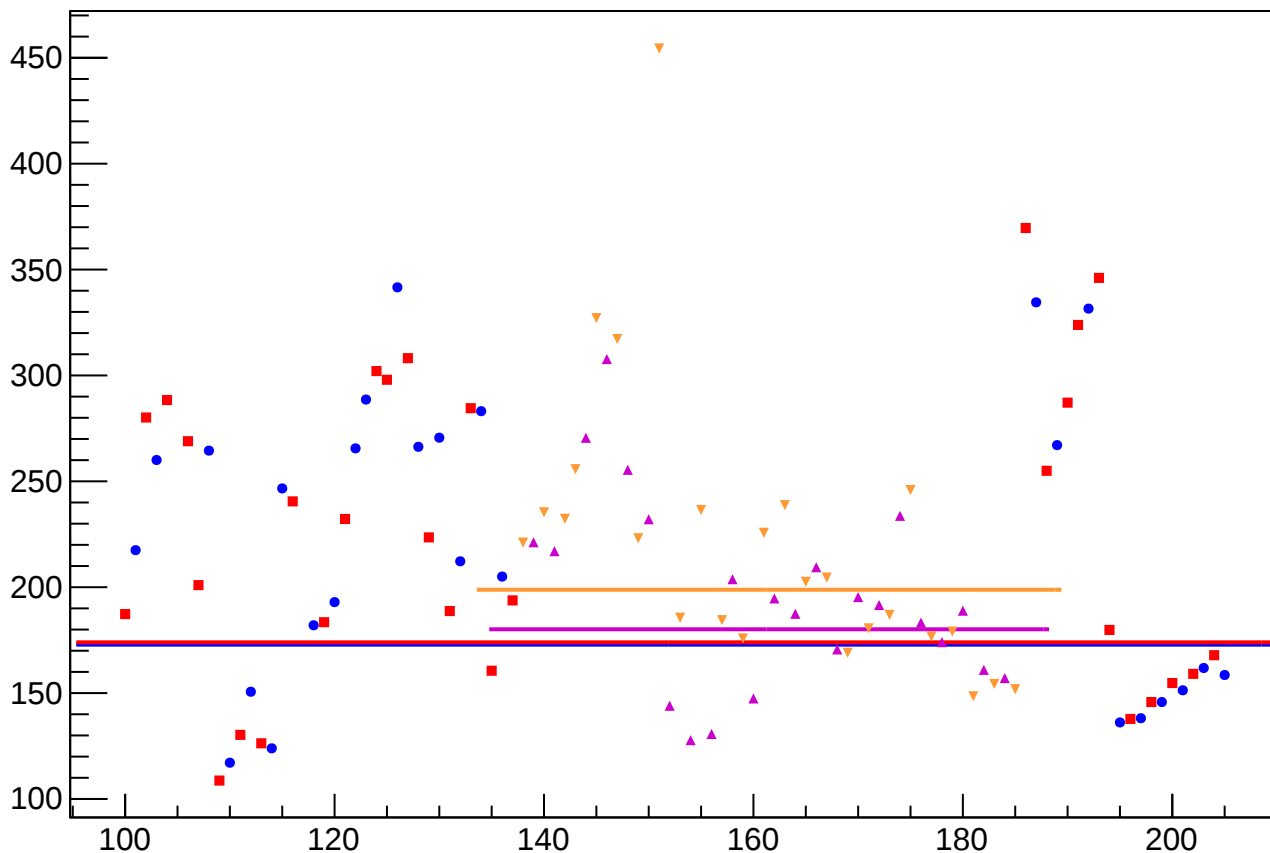
Right: -28.293 ± 35.356 $\chi^2/\text{NDF}: 27.6/55$

In: 0.186 ± 33.632 $\chi^2/\text{NDF}: 24.2/48$

Out: -3.285 ± 34.436 $\chi^2/\text{NDF}: 19.3/54$

All: -1.509 ± 24.061 $\chi^2/\text{NDF}: 43.5/103$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.883 $\pm$ 0.036 χ^2 /NDF: 2066548.4/25

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 173.975 $\pm$ 0.035 χ^2 /NDF: 2691937.3/29

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

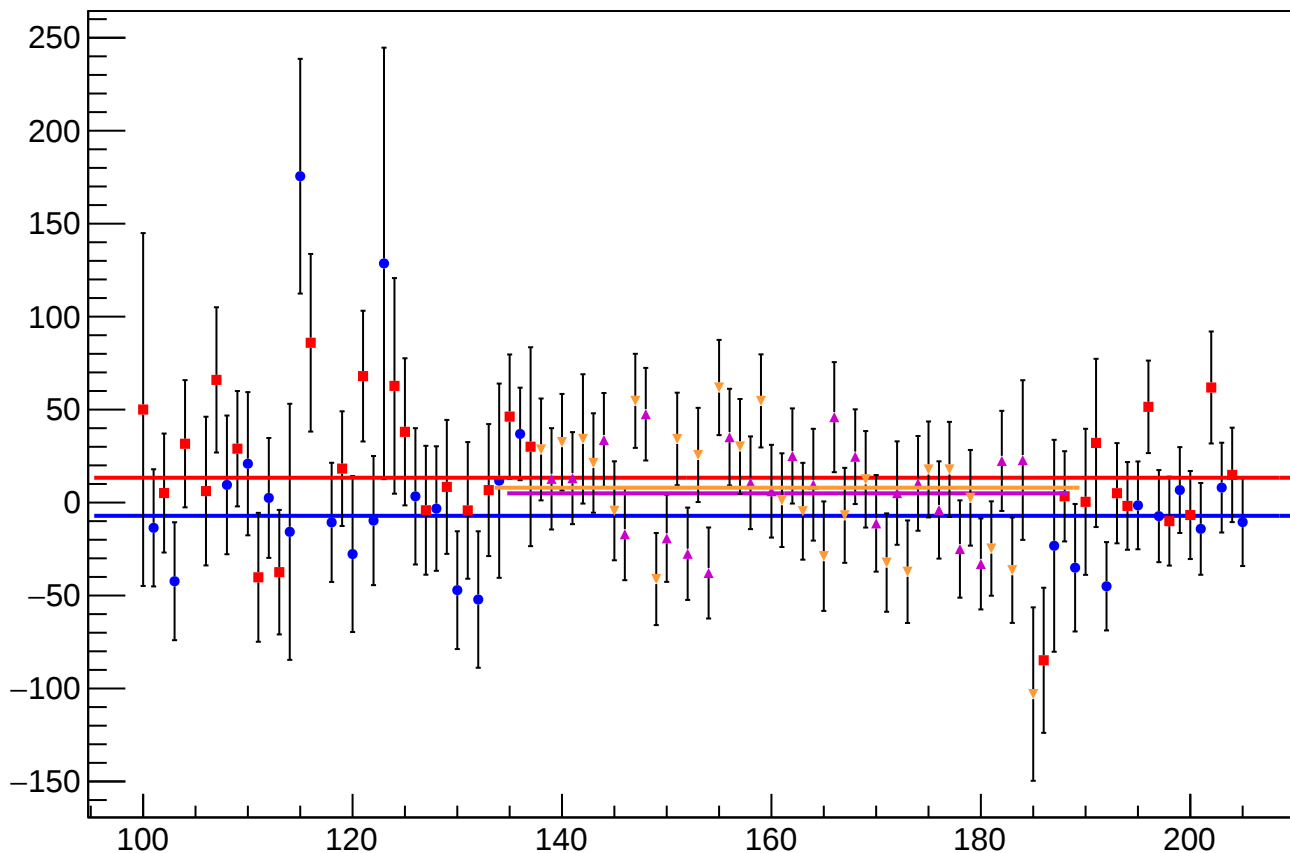
Right: 173.441 $\pm$ 0.025 χ^2 /NDF: 4758962.8/55

In: 176.920 $\pm$ 0.024 χ^2 /NDF:3683254.7/48

Out: 186.764 $\pm$ 0.024 χ^2 /NDF:4714659.1/54

All: 181.726 $\pm$ 0.017 χ^2 /NDF: 8481557.8/103

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -7.128 ± 6.202 $\chi^2/\text{NDF}: 22.8/25$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 13.346 ± 5.968 $\chi^2/\text{NDF}: 28.7/29$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

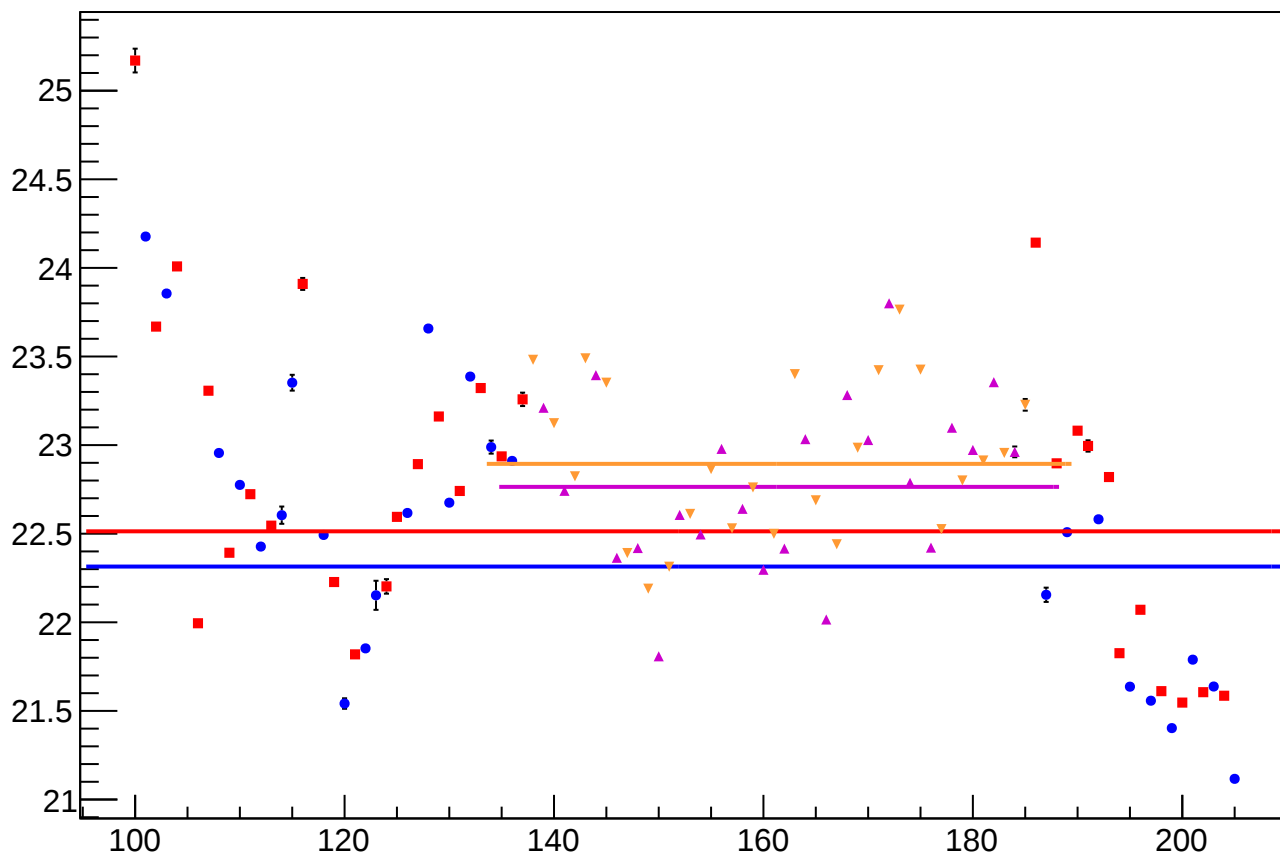
Right: 3.501 ± 4.301 $\chi^2/\text{NDF}: 57.1/55$

In: -0.294 ± 4.092 $\chi^2/\text{NDF}: 45.4/48$

Out: 10.365 ± 3.974 $\chi^2/\text{NDF}: 66.6/54$

All: 5.190 ± 2.851 $\chi^2/\text{NDF}: 115.4/103$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.315 $\pm$ 0.004 χ^2 /NDF: 35669.2/25

Left Out: 22.894 $\pm$ 0.004 χ^2 /NDF:13070.5/24

Right Out: 22.513 $\pm$ 0.004 χ^2 /NDF: 32585.0/29

Left In: 22.764 $\pm$ 0.004 χ^2 /NDF:14665.7/22

Left: 22.831 $\pm$ 0.003 χ^2 /NDF: 28317.3/47

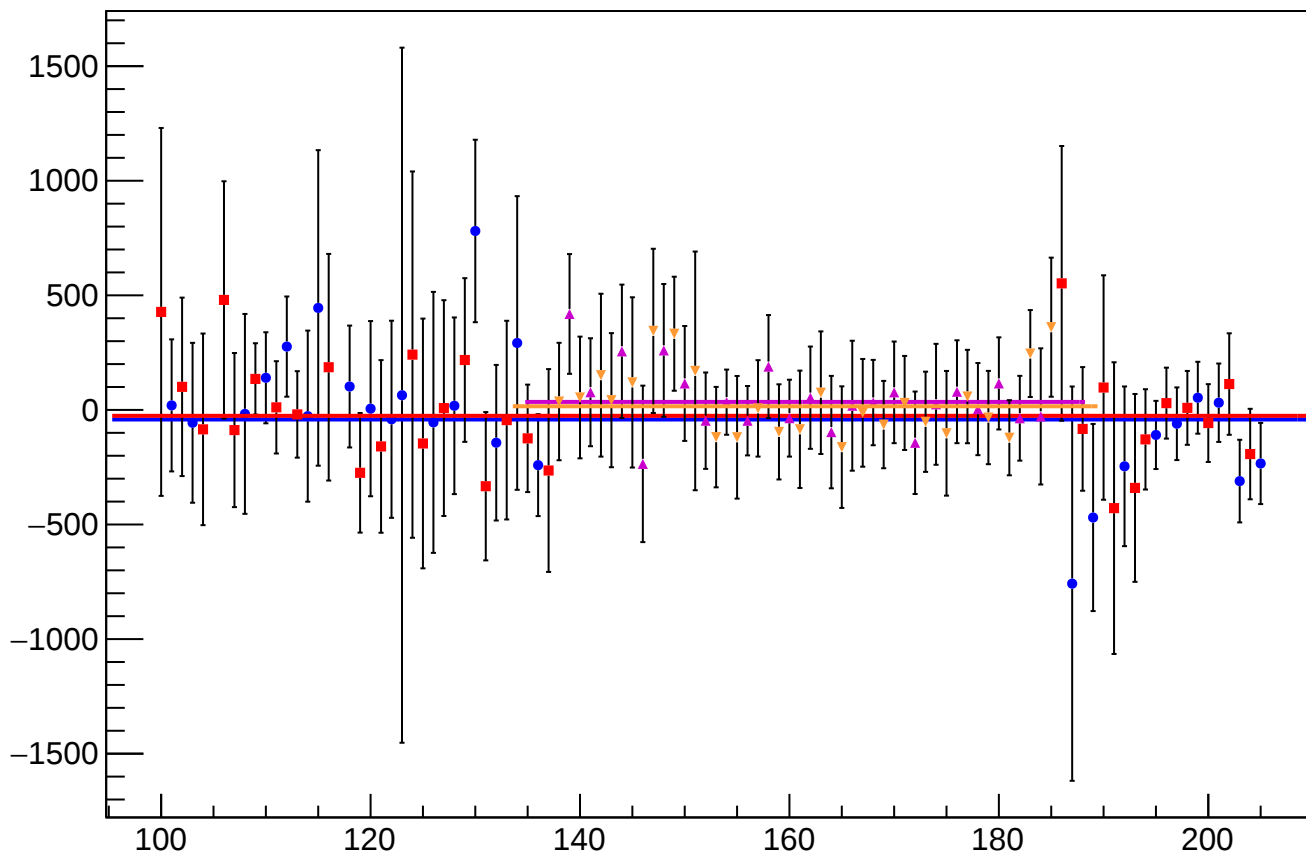
Right: 22.418 $\pm$ 0.003 χ^2 /NDF: 69321.4/55

In: 22.569 $\pm$ 0.003 χ^2 /NDF:56273.2/48

Out: 22.725 $\pm$ 0.003 χ^2 /NDF:50184.4/54

All: 22.649 $\pm$ 0.002 χ^2 /NDF: 107968.0/103

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -41.802 ± 50.417 χ^2/NDF : 15.6/25

Left Out: 15.904 ± 47.898 χ^2/NDF : 8.4/24

Right Out: -25.770 ± 49.222 χ^2/NDF : 9.3/29

Left In: 34.919 ± 44.971 χ^2/NDF : 6.6/22

Left: 26.010 ± 32.785 χ^2/NDF : 15.1/47

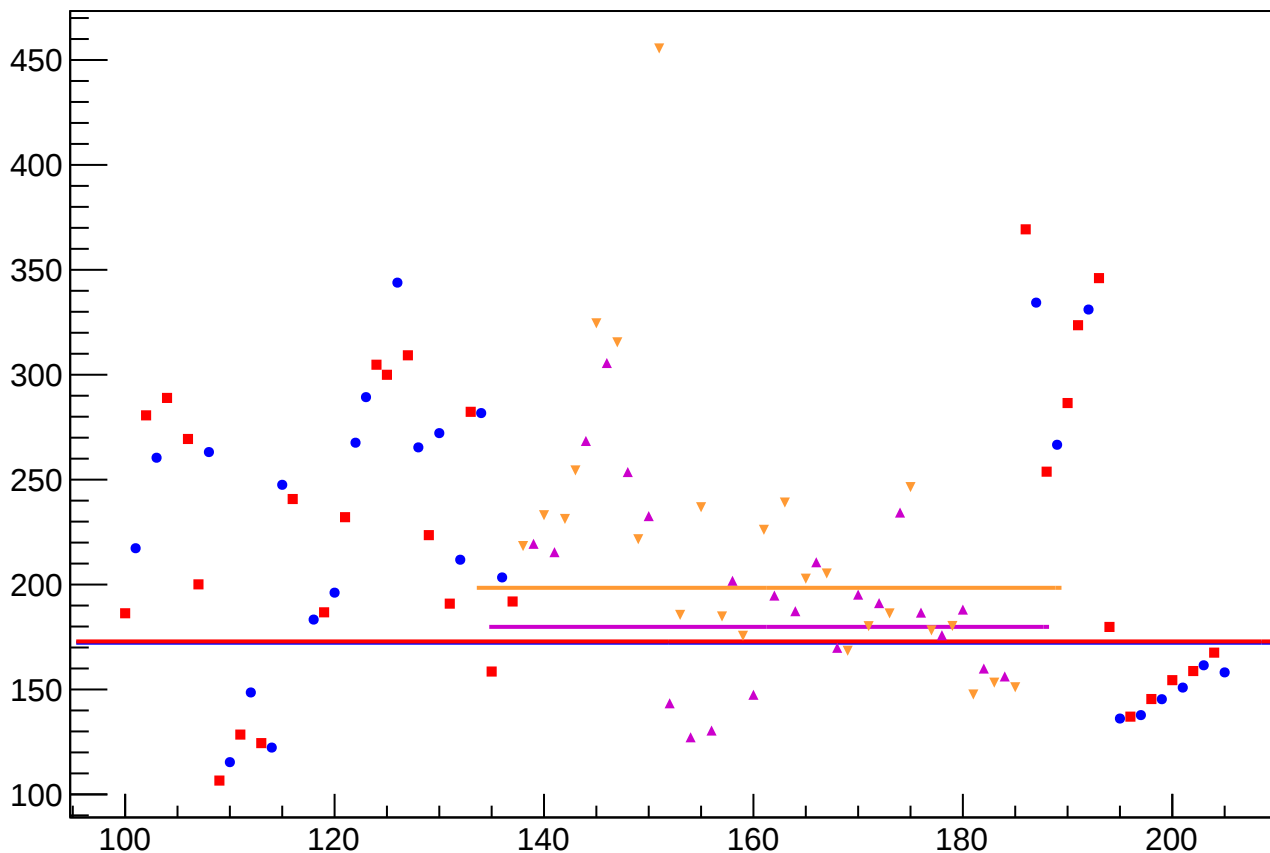
Right: -33.593 ± 35.220 χ^2/NDF : 25.0/55

In: 0.925 ± 33.560 χ^2/NDF : 23.4/48

Out: -4.365 ± 34.328 χ^2/NDF : 18.1/54

All: -1.660 ± 23.997 χ^2/NDF : 41.6/103

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.279 $\pm$ 0.036 χ^2 /NDF: 2097267.4/25

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 172.898 $\pm$ 0.035 χ^2 /NDF: 2763371.3/29

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

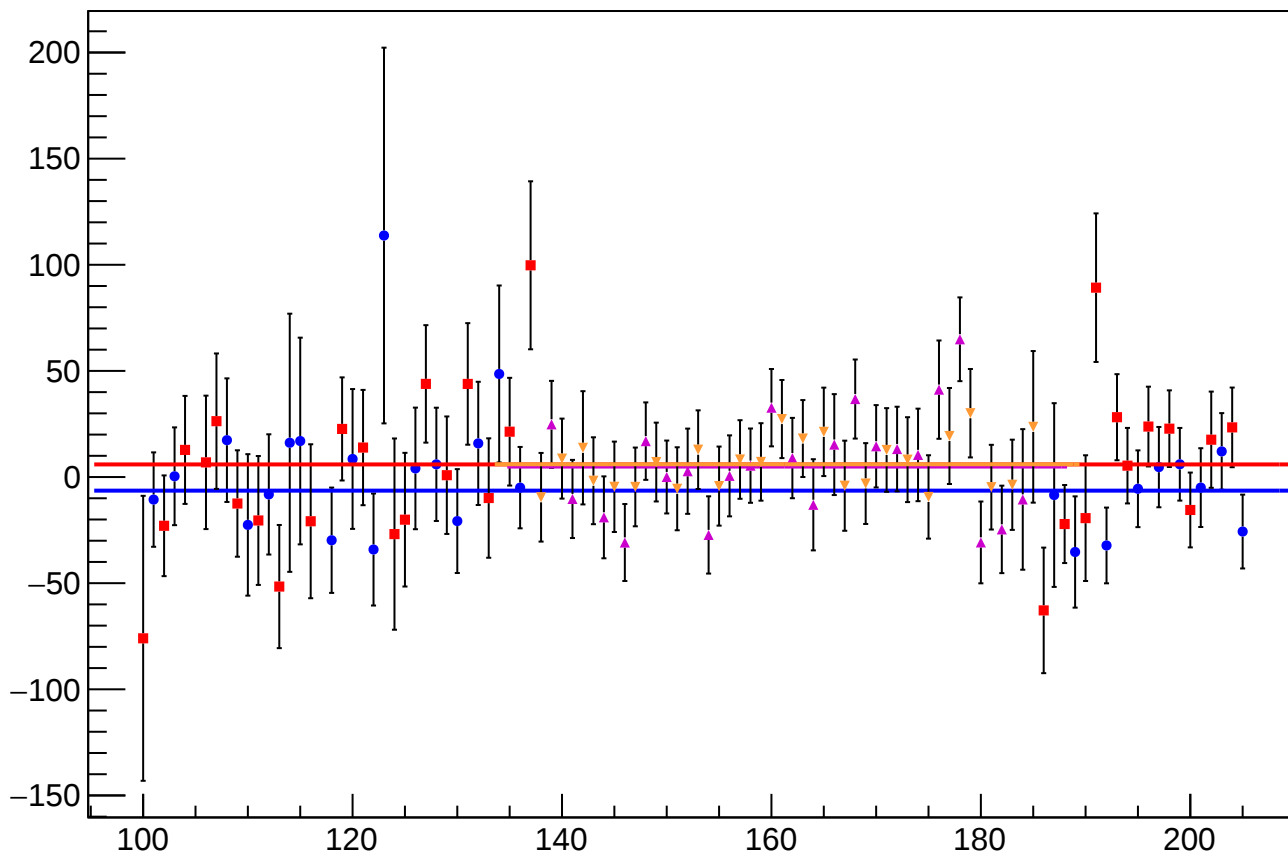
Right: 172.596 $\pm$ 0.025 χ^2 /NDF: 4860792.9/55

In: 176.489 $\pm$ 0.024 χ^2 /NDF:3711143.8/48

Out: 186.022 $\pm$ 0.024 χ^2 /NDF:4801631.0/54

All: 181.148 $\pm$ 0.017 χ^2 /NDF: 8591630.9/103

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.407 ± 4.741 χ^2/NDF : 14.9/25

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 5.947 ± 4.585 χ^2/NDF : 40.7/29

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

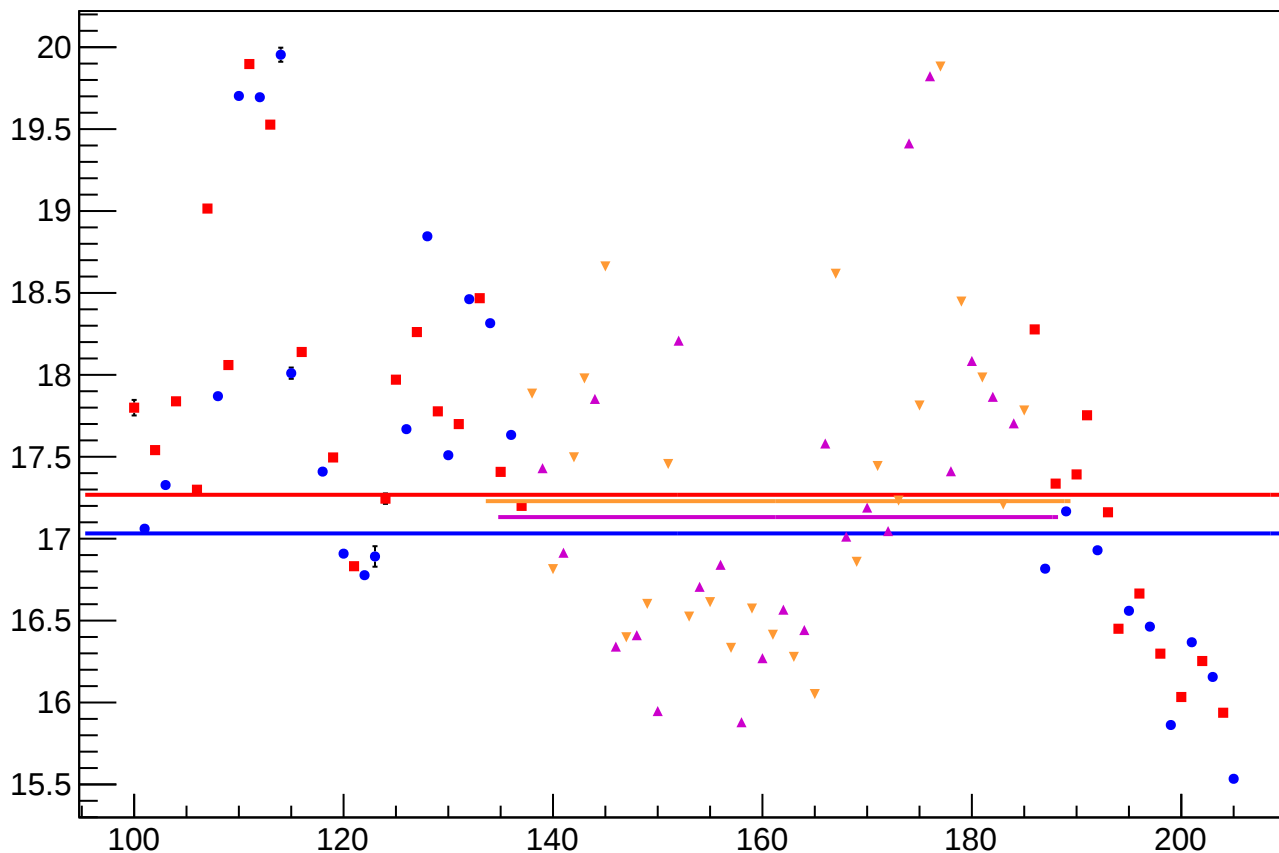
Right: -0.024 ± 3.296 χ^2/NDF : 59.1/55

In: 0.076 ± 3.104 χ^2/NDF : 53.0/48

Out: 5.988 ± 3.022 χ^2/NDF : 48.8/54

All: 3.112 ± 2.165 χ^2/NDF : 103.7/103

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.032 ± 0.003 $\chi^2/\text{NDF}: 93100.8/25$

Left Out: 17.229 ± 0.003 $\chi^2/\text{NDF}: 98624.7/24$

Right Out: 17.268 ± 0.003 $\chi^2/\text{NDF}: 85540.2/29$

Left In: 17.132 ± 0.003 $\chi^2/\text{NDF}: 103997.3/22$

Left: 17.182 ± 0.002 $\chi^2/\text{NDF}: 203195.4/47$

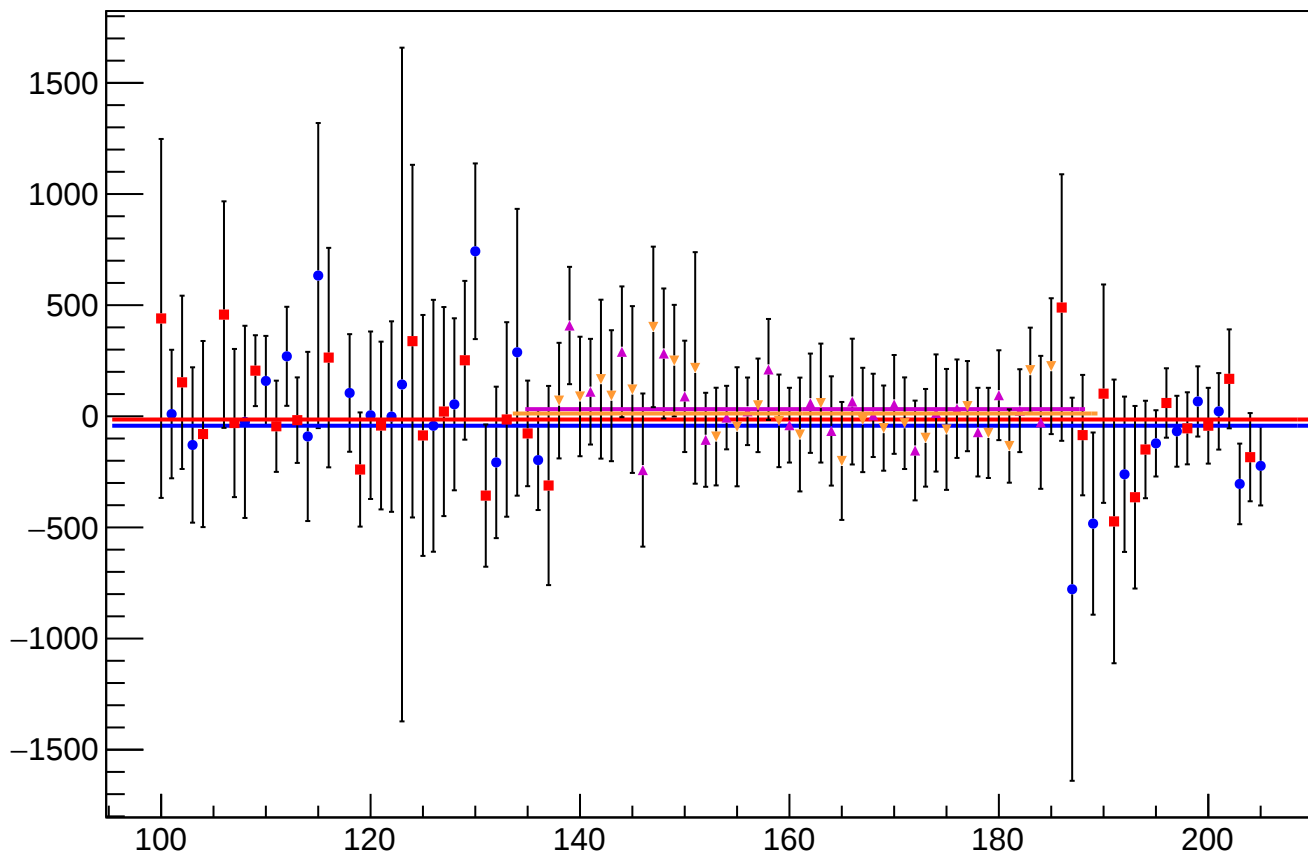
Right: 17.154 ± 0.002 $\chi^2/\text{NDF}: 181198.3/55$

In: 17.089 ± 0.002 $\chi^2/\text{NDF}: 197603.9/48$

Out: 17.246 ± 0.002 $\chi^2/\text{NDF}: 184245.9/54$

All: 17.170 ± 0.002 $\chi^2/\text{NDF}: 384473.5/103$

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -42.467 ± 50.716 χ^2/NDF : 15.7/25

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -14.423 ± 49.577 χ^2/NDF : 11.0/29

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

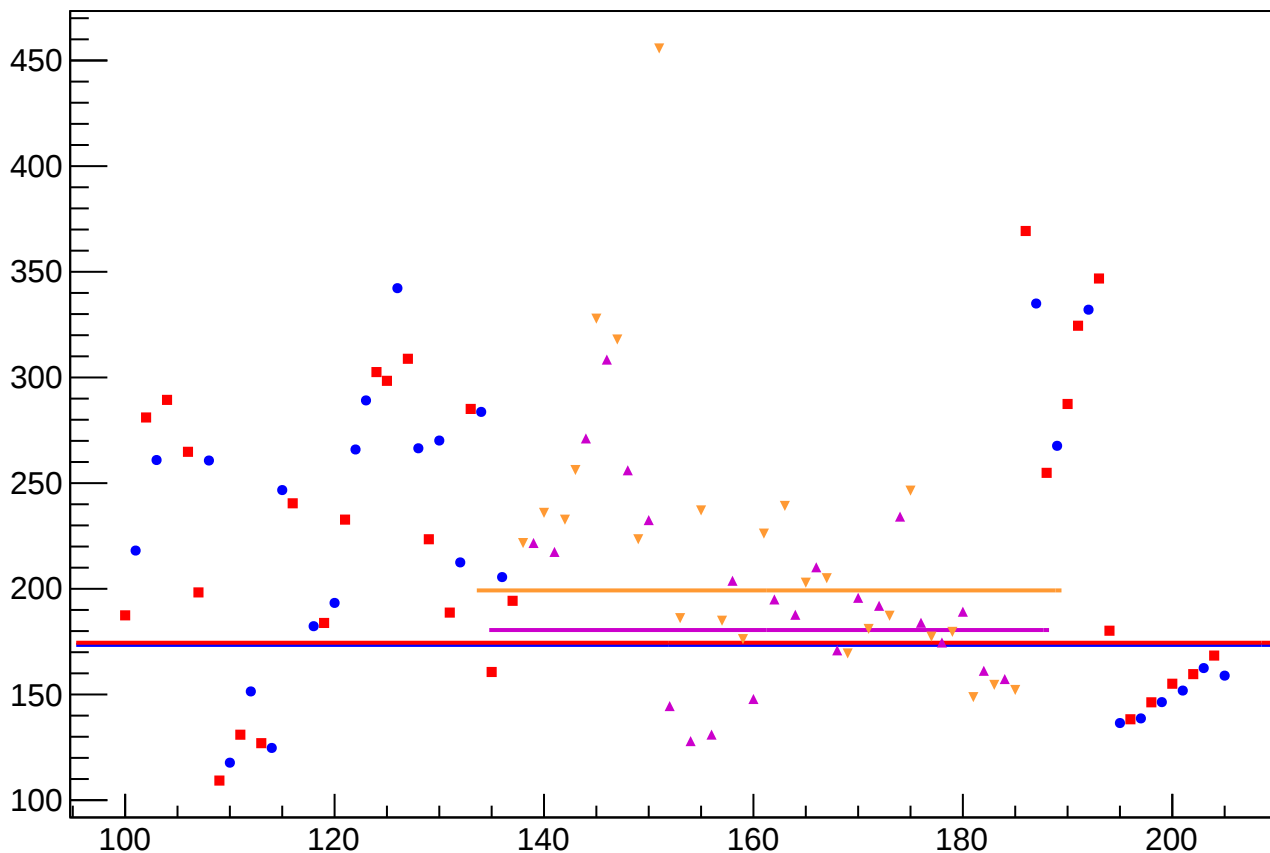
Right: -28.126 ± 35.452 χ^2/NDF : 26.8/55

In: -0.820 ± 33.715 χ^2/NDF : 23.8/48

Out: -0.563 ± 34.517 χ^2/NDF : 18.0/54

All: -0.695 ± 24.119 χ^2/NDF : 41.8/103

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.464 $\pm$ 0.036 χ^2 /NDF: 2048451.7/25

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 174.485 $\pm$ 0.035 χ^2 /NDF: 2667956.6/29

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

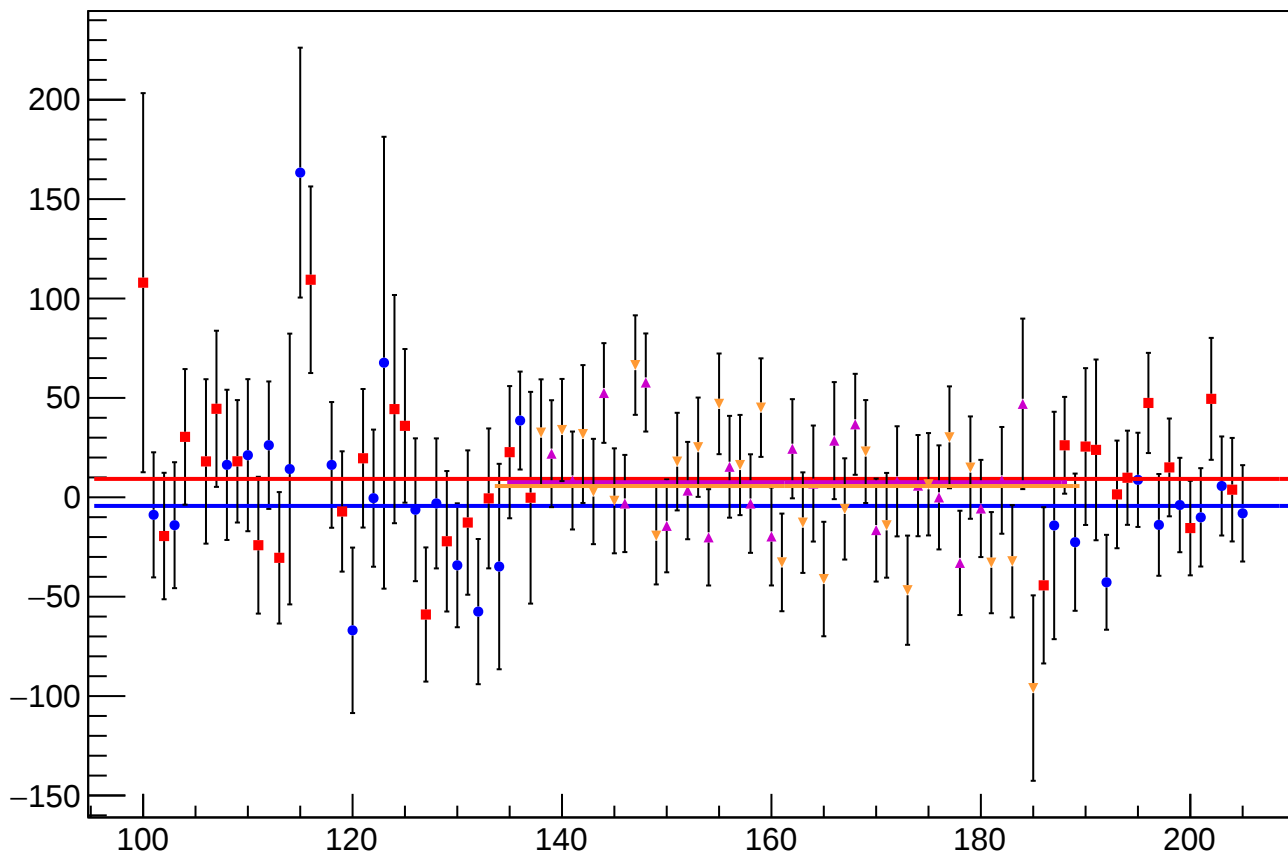
Right: 173.986 $\pm$ 0.025 χ^2 /NDF: 4716823.1/55

In: 177.387 $\pm$ 0.024 χ^2 /NDF:3663680.9/48

Out: 187.241 $\pm$ 0.024 χ^2 /NDF:4689009.6/54

All: 182.198 $\pm$ 0.017 χ^2 /NDF: 8436108.3/103

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.340 ± 6.230 χ^2/NDF : 22.1/25

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 9.252 ± 5.977 χ^2/NDF : 24.8/29

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

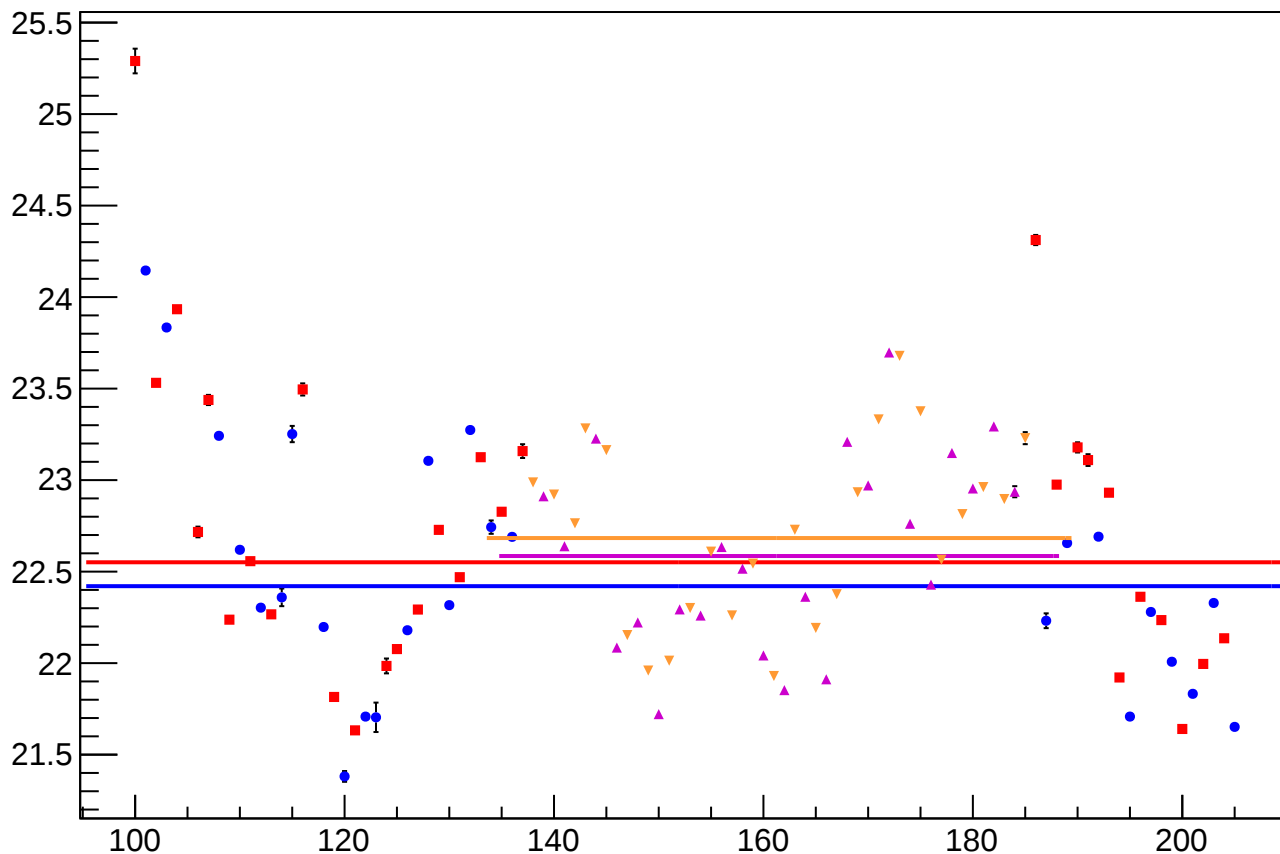
Right: 2.737 ± 4.313 χ^2/NDF : 49.3/55

In: 2.472 ± 4.081 χ^2/NDF : 42.5/48

Out: 7.241 ± 3.956 χ^2/NDF : 61.4/54

All: 4.931 ± 2.841 χ^2/NDF : 104.6/103

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.421 $\pm$ 0.004 χ^2 /NDF: 22061.4/25

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16318.1/24

Right Out: 22.551 $\pm$ 0.004 χ^2 /NDF: 25005.0/29

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

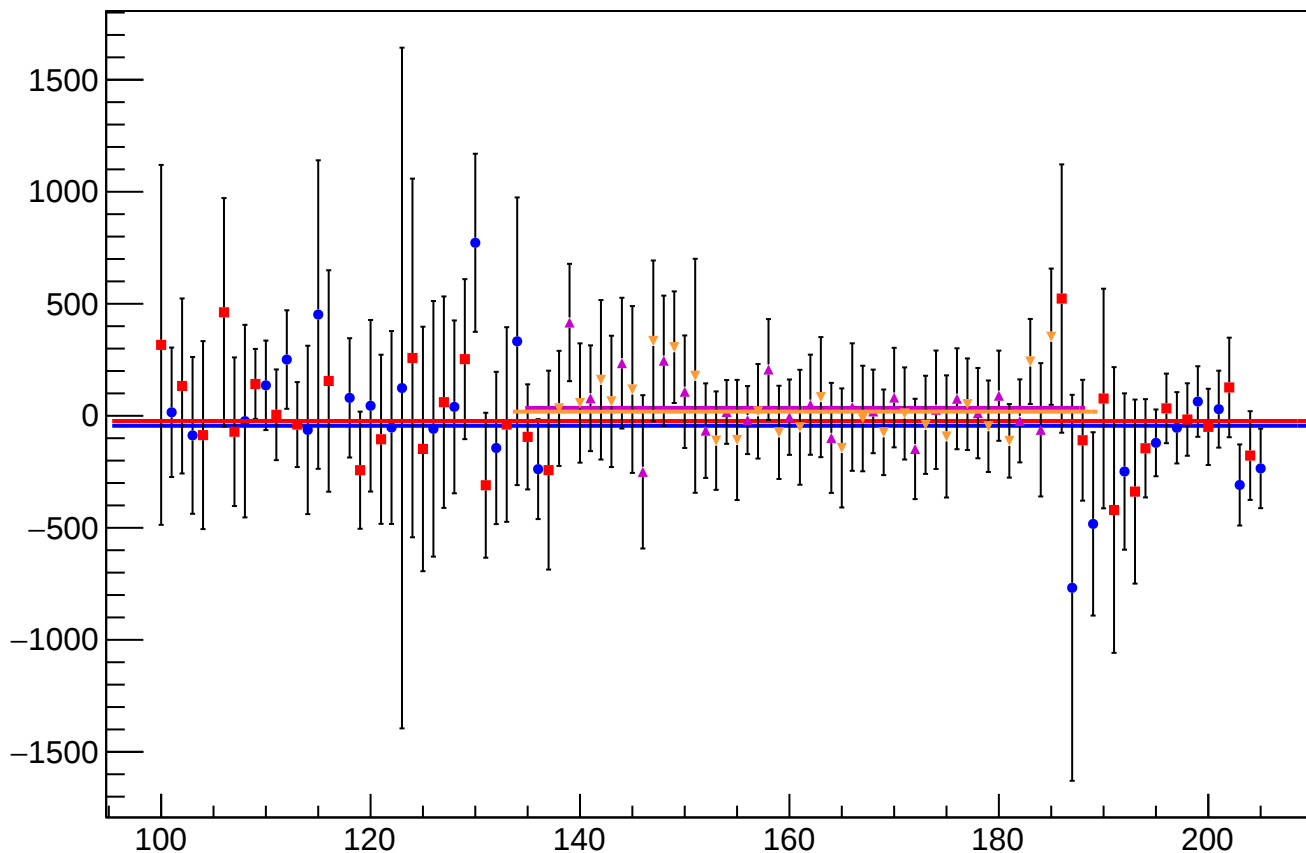
Right: 22.488 $\pm$ 0.003 χ^2 /NDF: 47523.5/55

In: 22.515 $\pm$ 0.003 χ^2 /NDF:40947.2/48

Out: 22.625 $\pm$ 0.003 χ^2 /NDF:41874.4/54

All: 22.572 $\pm$ 0.002 χ^2 /NDF: 83582.7/103

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -44.447 ± 50.569 $\chi^2/\text{NDF}: 15.3/25$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -23.071 ± 49.345 $\chi^2/\text{NDF}: 8.7/29$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

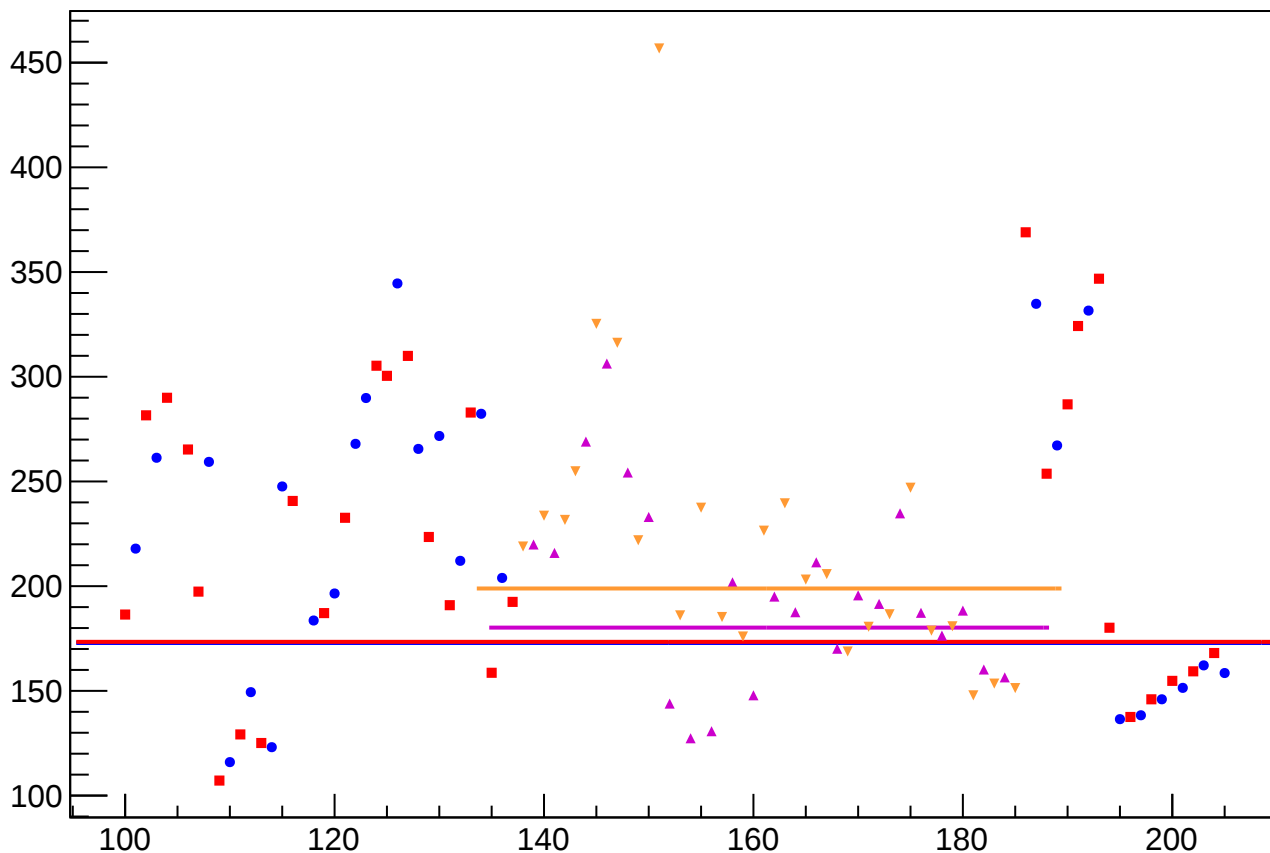
Right: -33.497 ± 35.317 $\chi^2/\text{NDF}: 24.2/55$

In: -0.138 ± 33.643 $\chi^2/\text{NDF}: 23.0/48$

Out: -1.645 ± 34.409 $\chi^2/\text{NDF}: 16.7/54$

All: -0.875 ± 24.056 $\chi^2/\text{NDF}: 39.7/103$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.866 $\pm$ 0.036 χ^2 /NDF: 2078572.1/25

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 173.417 $\pm$ 0.035 χ^2 /NDF: 2738419.2/29

Left In: 180.207 $\pm$ 0.032 χ^2 /NDF:1589005.4/22

Left: 188.959 $\pm$ 0.023 χ^2 /NDF: 3512499.2/47

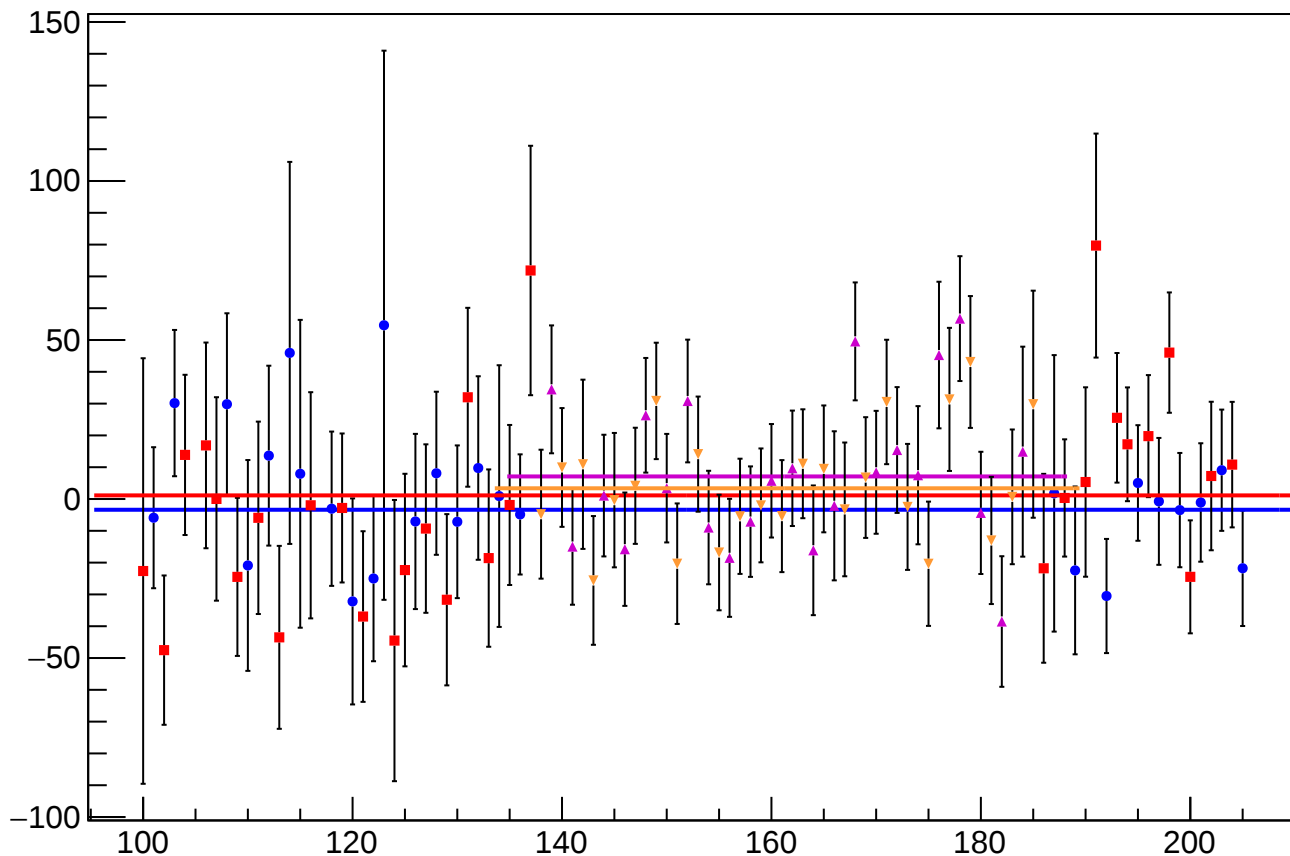
Right: 173.148 $\pm$ 0.025 χ^2 /NDF: 4817112.6/55

In: 176.958 $\pm$ 0.024 χ^2 /NDF:3691069.1/48

Out: 186.504 $\pm$ 0.024 χ^2 /NDF:4774709.9/54

All: 181.624 $\pm$ 0.017 χ^2 /NDF: 8544477.6/103

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.378 ± 4.778 $\chi^2/\text{NDF}: 11.8/25$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 1.140 ± 4.599 $\chi^2/\text{NDF}: 35.6/29$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

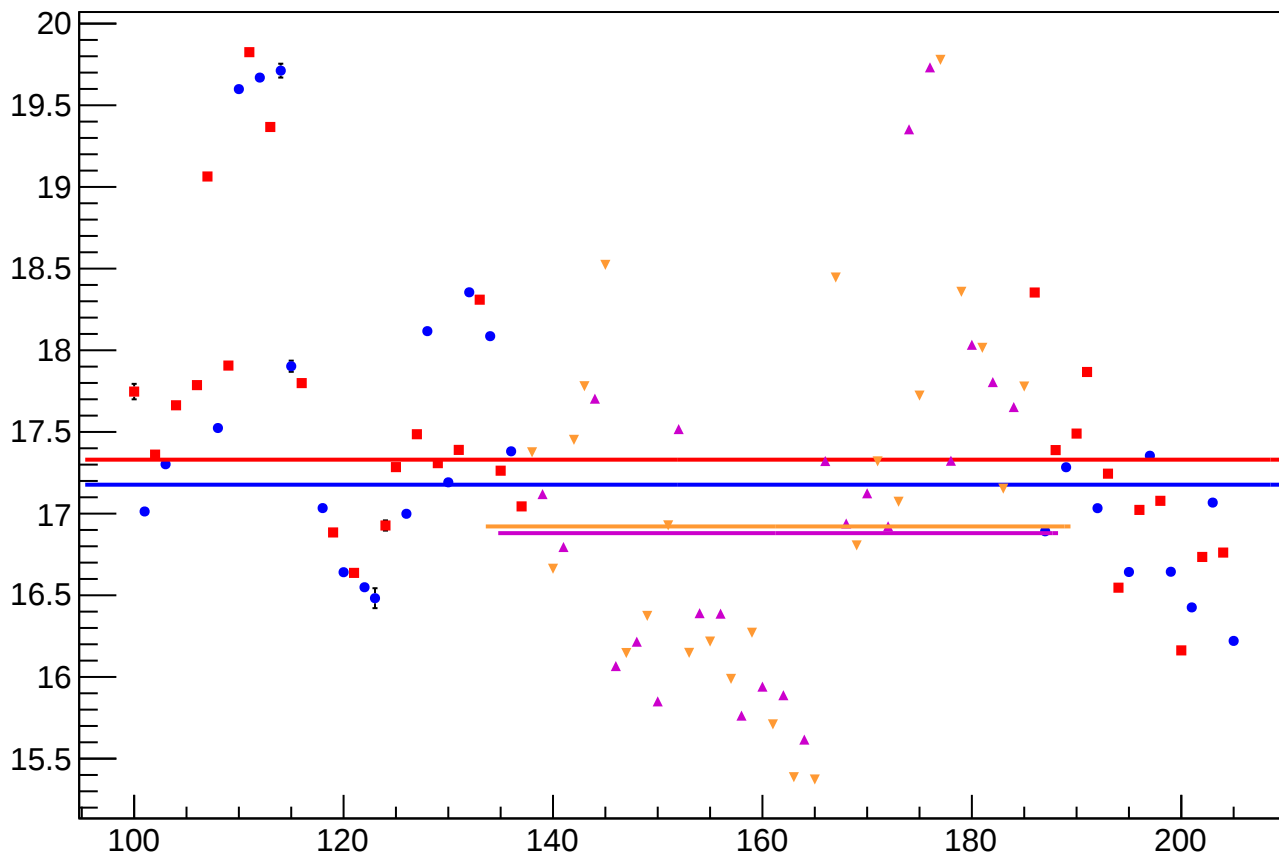
Right: -1.033 ± 3.313 $\chi^2/\text{NDF}: 47.8/55$

In: 2.722 ± 3.088 $\chi^2/\text{NDF}: 47.1/48$

Out: 2.425 ± 2.995 $\chi^2/\text{NDF}: 54.5/54$

All: 2.569 ± 2.150 $\chi^2/\text{NDF}: 101.6/103$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.177 $\pm$ 0.003 χ^2 /NDF: 52665.0/25

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.330 $\pm$ 0.003 χ^2 /NDF: 55914.7/29

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

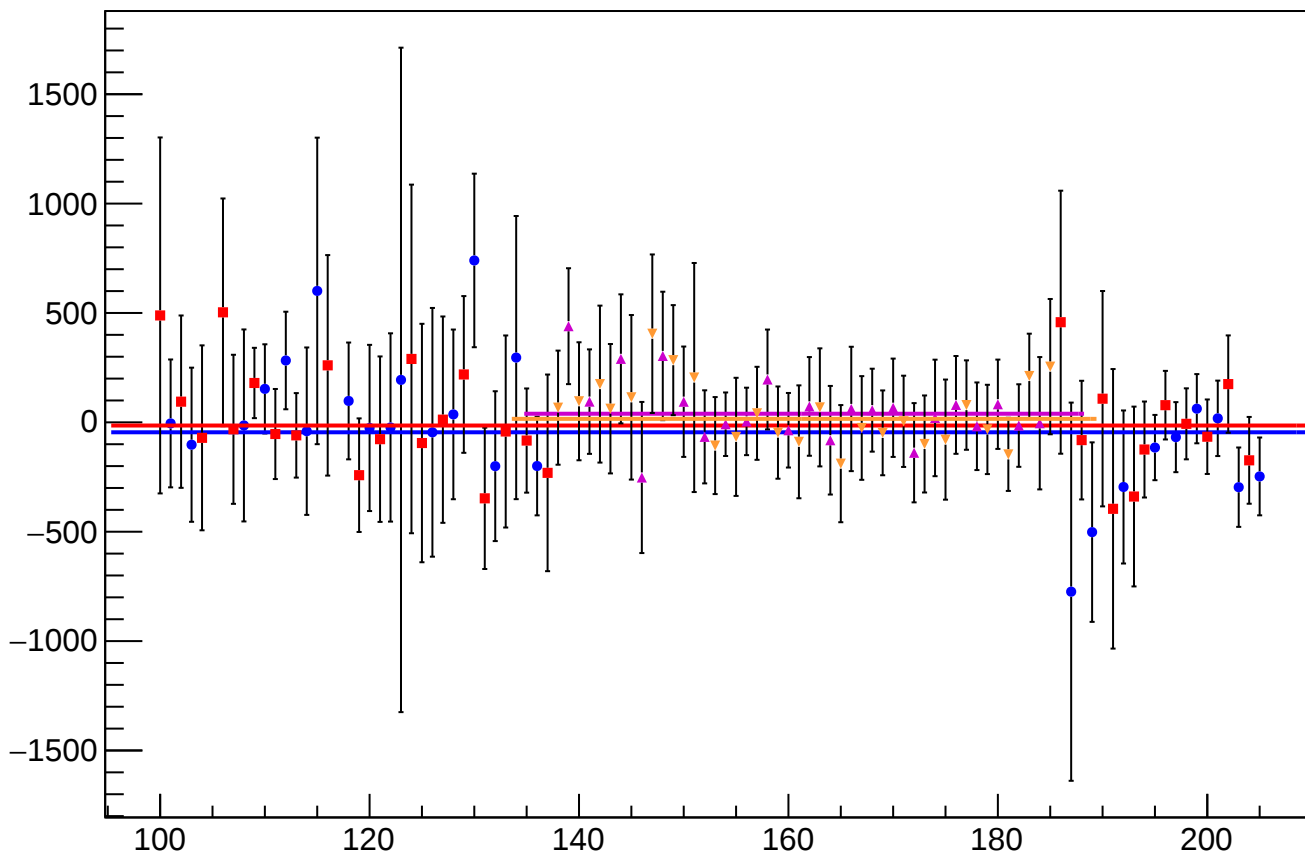
Right: 17.257 $\pm$ 0.002 χ^2 /NDF: 109647.6/55

In: 17.004 $\pm$ 0.002 χ^2 /NDF:178889.1/48

Out: 17.095 $\pm$ 0.002 χ^2 /NDF:204006.3/54

All: 17.051 $\pm$ 0.002 χ^2 /NDF: 383780.2/103

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -45.456 ± 50.870 χ^2/NDF : 15.7/25

Left Out: 15.970 ± 48.503 χ^2/NDF : 7.4/24

Right Out: -14.531 ± 49.769 χ^2/NDF : 9.9/29

Left In: 39.377 ± 45.571 χ^2/NDF : 6.9/22

Left: 28.402 ± 33.212 χ^2/NDF : 14.4/47

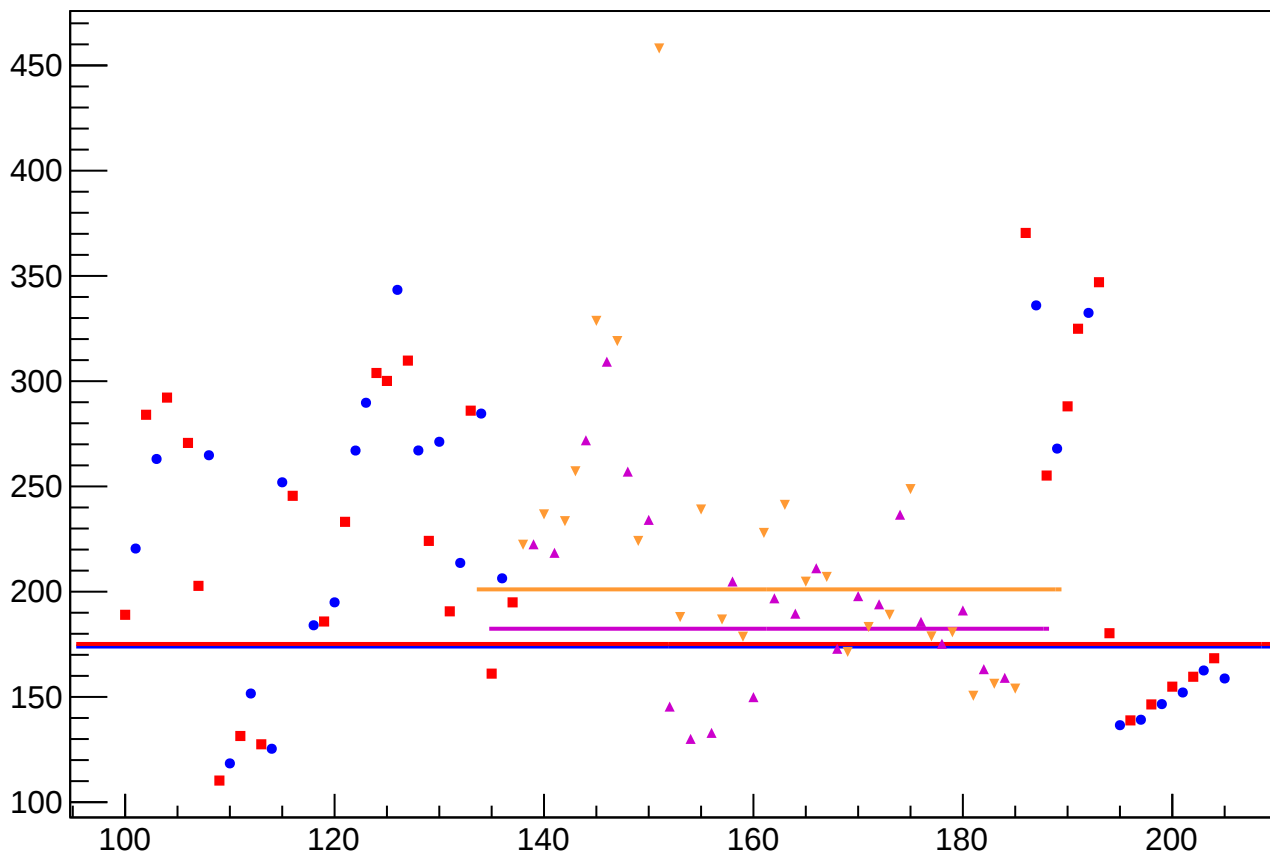
Right: -29.655 ± 35.575 χ^2/NDF : 25.8/55

In: 1.608 ± 33.943 χ^2/NDF : 24.2/48

Out: 1.112 ± 34.736 χ^2/NDF : 17.4/54

All: 1.366 ± 24.277 χ^2/NDF : 41.6/103

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.946 ± 0.036 χ^2/NDF : 2063939.2/25

Left Out: 201.091 ± 0.034 χ^2/NDF : 1731069.1/24

Right Out: 175.163 ± 0.035 χ^2/NDF : 2676490.1/29

Left In: 182.396 ± 0.032 χ^2/NDF : 1548907.7/22

Left: 191.161 ± 0.023 χ^2/NDF : 3437793.2/47

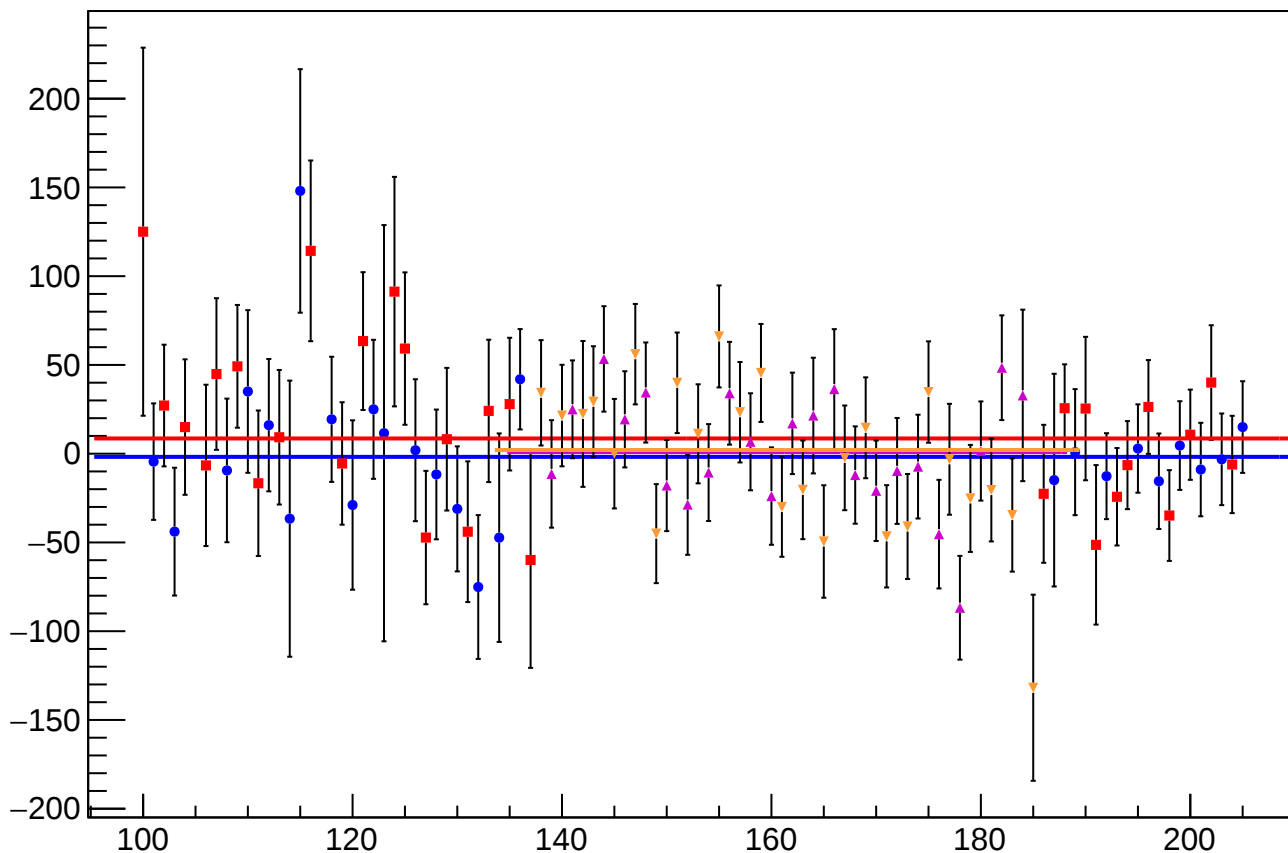
Right: 174.568 ± 0.025 χ^2/NDF : 4741014.3/55

In: 178.634 ± 0.024 χ^2/NDF : 3643464.0/48

Out: 188.461 ± 0.025 χ^2/NDF : 4685960.8/54

All: 183.434 ± 0.017 χ^2/NDF : 8411309.7/103

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.787 ± 6.741 χ^2/NDF : 16.6/25

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 8.585 ± 6.429 χ^2/NDF : 28.8/29

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

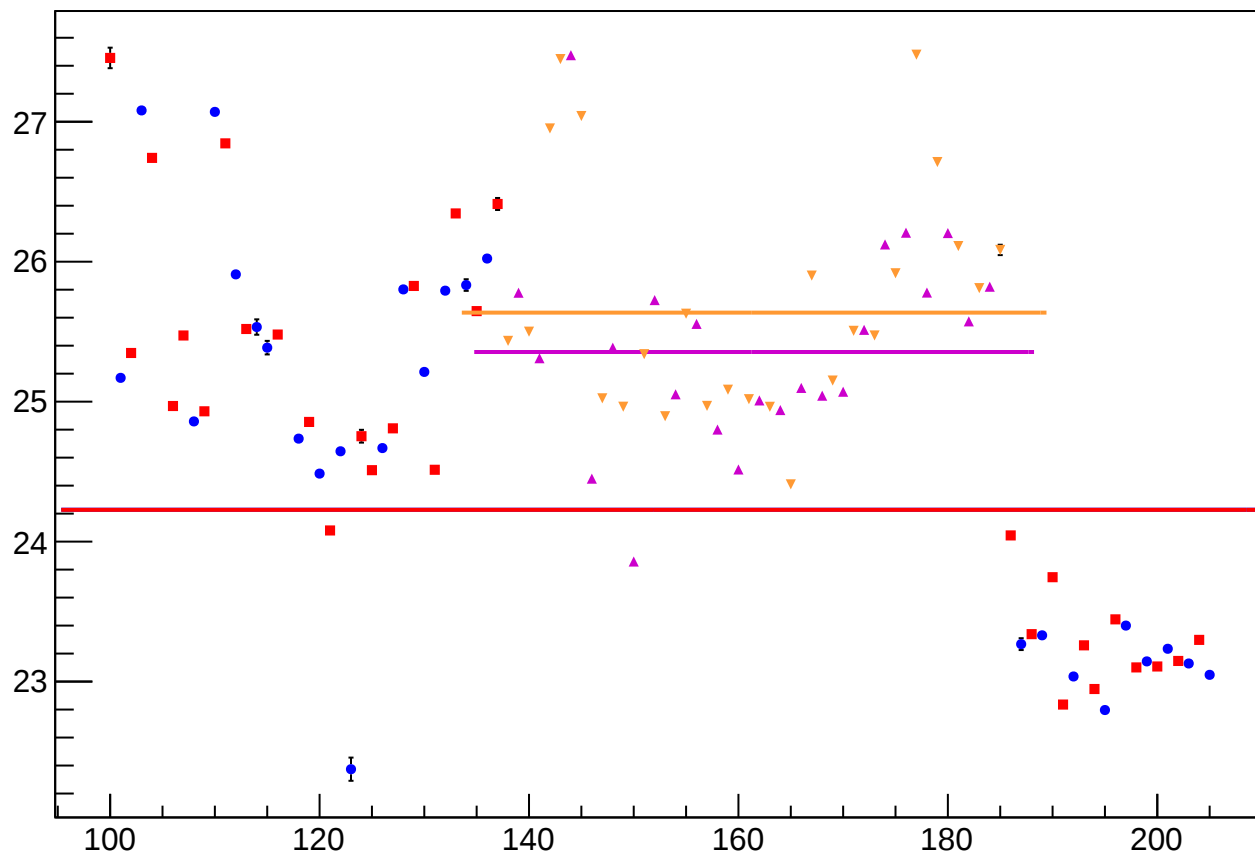
Right: 3.645 ± 4.652 χ^2/NDF : 46.6/55

In: -0.303 ± 4.511 χ^2/NDF : 43.7/48

Out: 5.078 ± 4.375 χ^2/NDF : 68.8/54

All: 2.470 ± 3.140 χ^2/NDF : 113.2/103

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.228 $\pm$ 0.005 χ^2 /NDF: 76399.0/25

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 24.227 $\pm$ 0.005 χ^2 /NDF: 69931.5/29

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

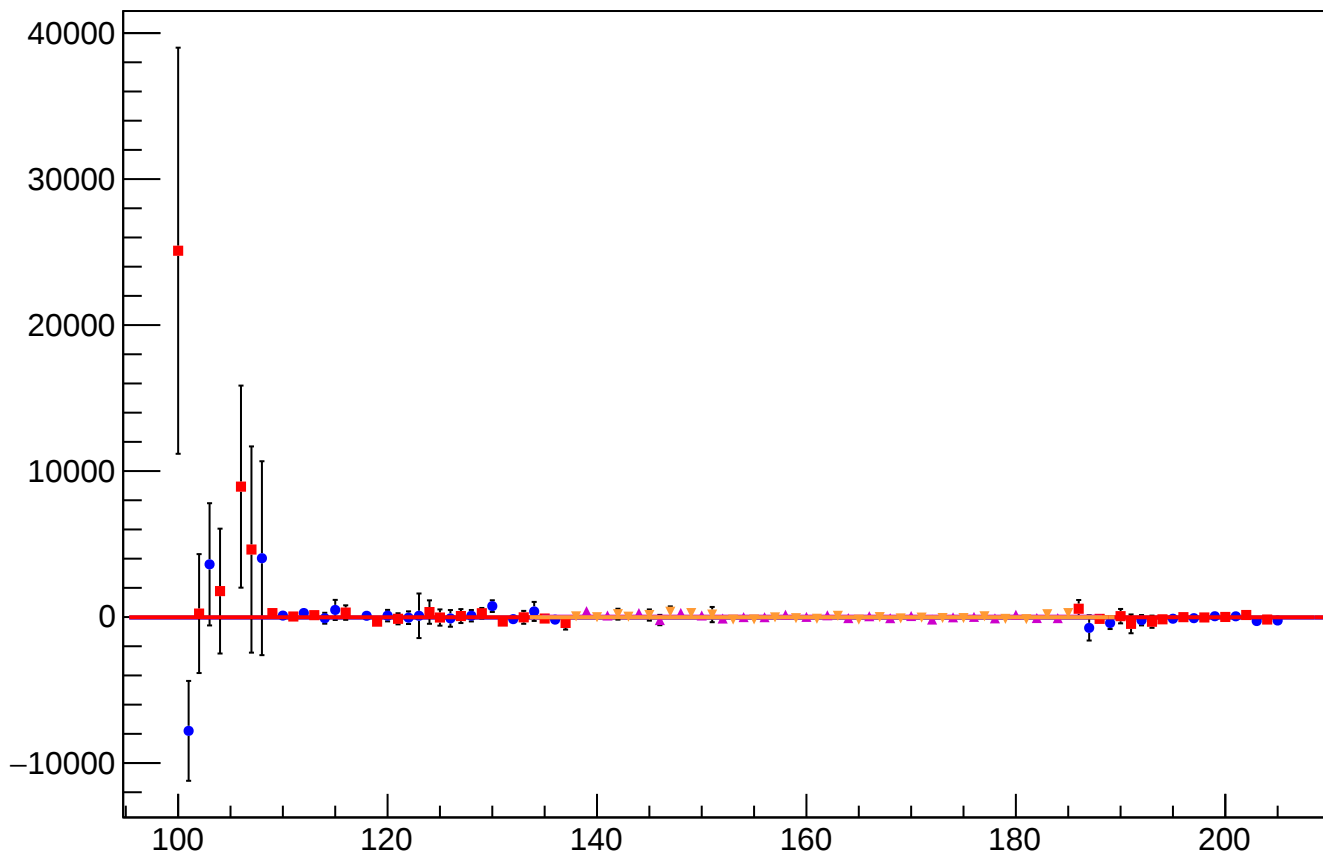
Right: 24.227 $\pm$ 0.003 χ^2 /NDF: 146330.5/55

In: 24.850 $\pm$ 0.003 χ^2 /NDF:137030.8/48

Out: 24.984 $\pm$ 0.003 χ^2 /NDF:156650.9/54

All: 24.919 $\pm$ 0.002 χ^2 /NDF: 294583.1/103

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -36.572 ± 53.565 χ^2/NDF : 20.0/25

Left Out: -12.820 ± 48.216 χ^2/NDF : 7.9/24

Right Out: -14.898 ± 53.430 χ^2/NDF : 15.8/29

Left In: 26.836 ± 45.876 χ^2/NDF : 7.5/22

Left: 7.994 ± 33.236 χ^2/NDF : 15.7/47

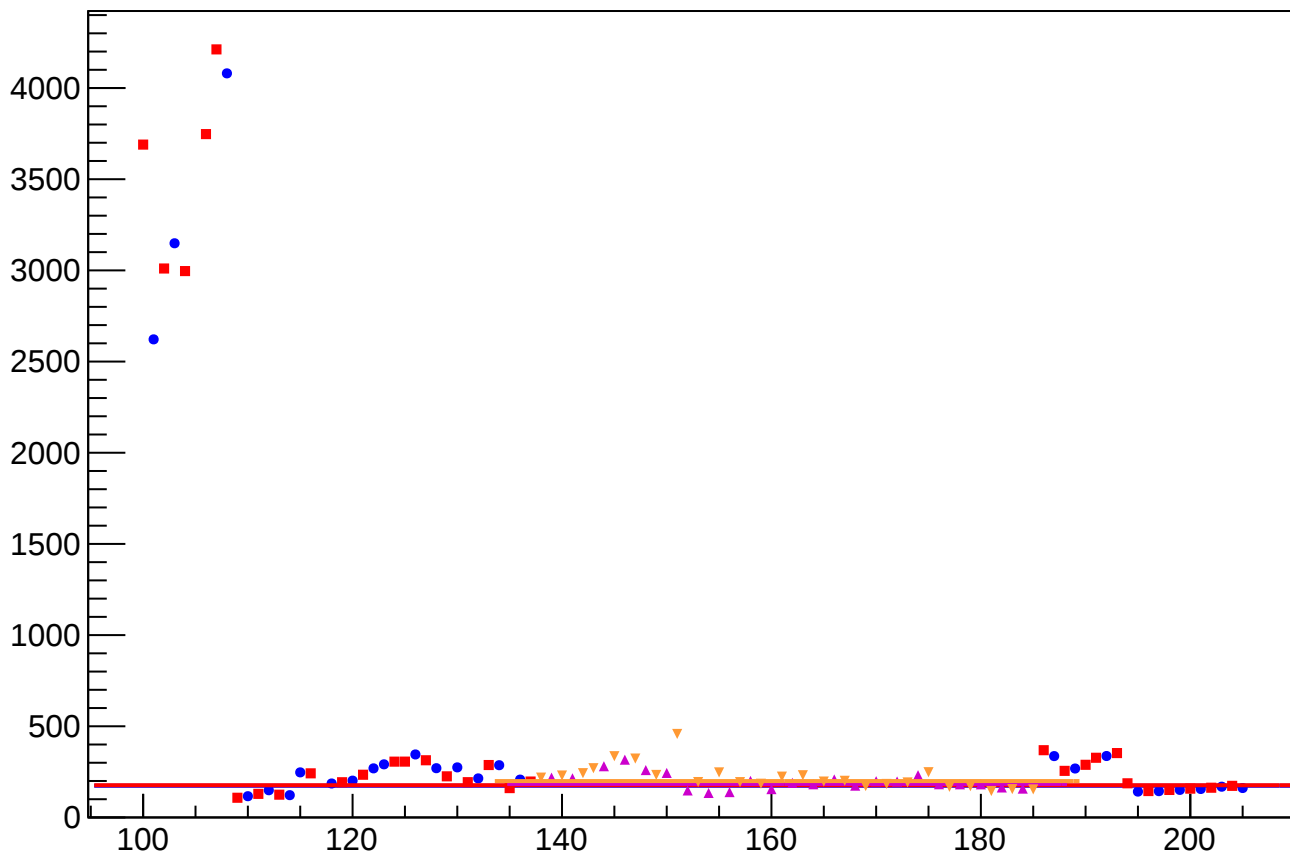
Right: -25.708 ± 37.828 χ^2/NDF : 35.8/55

In: 0.006 ± 34.843 χ^2/NDF : 28.3/48

Out: -13.753 ± 35.796 χ^2/NDF : 23.6/54

All: -6.688 ± 24.968 χ^2/NDF : 52.0/103

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.817 $\pm$ 0.038 χ^2 /NDF: 4475570.4/25

Left Out: 199.536 $\pm$ 0.034 χ^2 /NDF:1880548.8/24

Right Out: 176.715 $\pm$ 0.038 χ^2 /NDF: 5308110.0/29

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

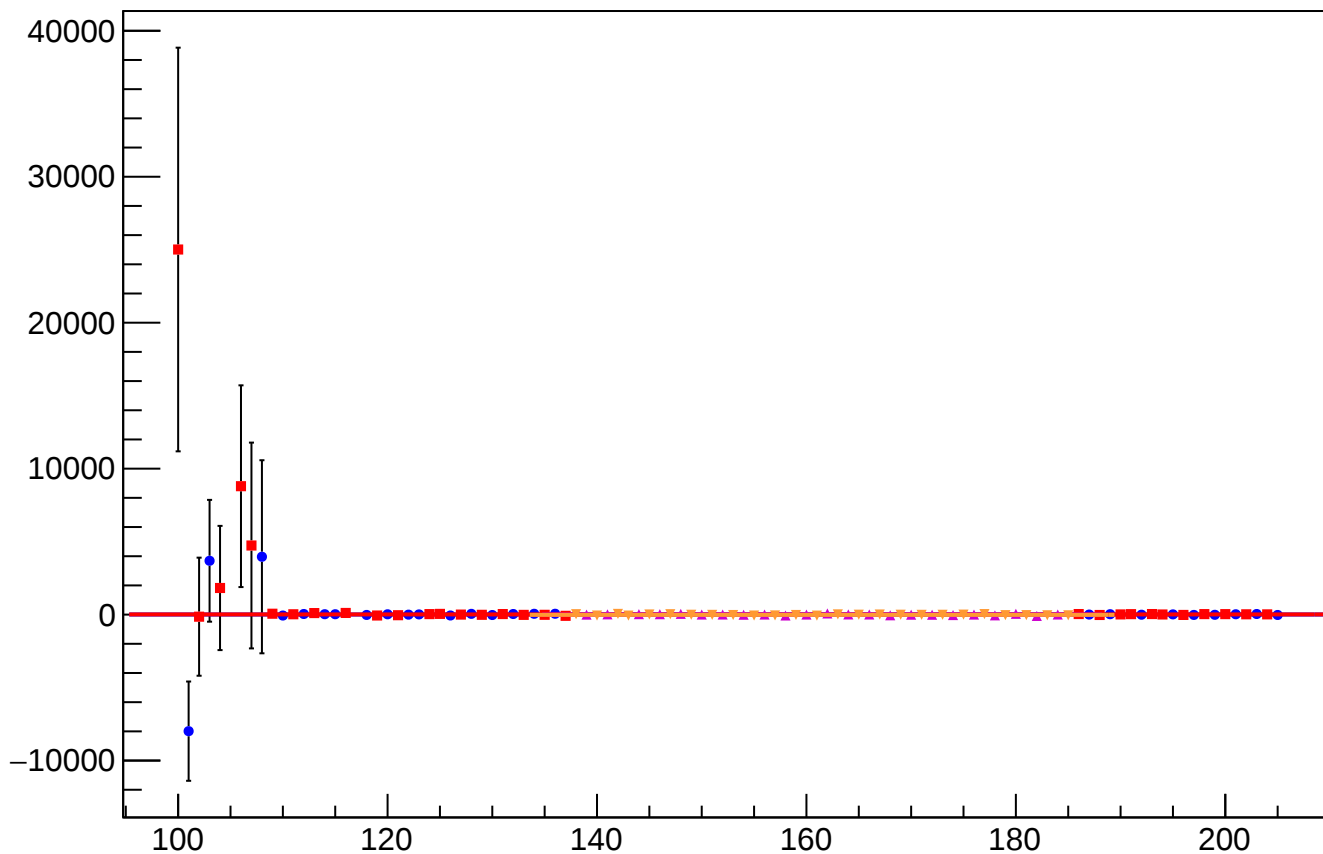
Right: 175.270 $\pm$ 0.027 χ^2 /NDF: 9786614.4/55

In: 179.709 $\pm$ 0.025 χ^2 /NDF:5940979.0/48

Out: 189.293 $\pm$ 0.025 χ^2 /NDF:7389752.2/54

All: 184.372 $\pm$ 0.018 χ^2 /NDF: 13404337.4/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.451+/-8.150 χ^2/NDF : 23.6/25

Left Out: -17.580+/-6.694 χ^2/NDF :22.3/24

Right Out: 13.202+/-7.913 χ^2/NDF : 29.1/29

Left In: 1.038+/-6.880 χ^2/NDF :32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

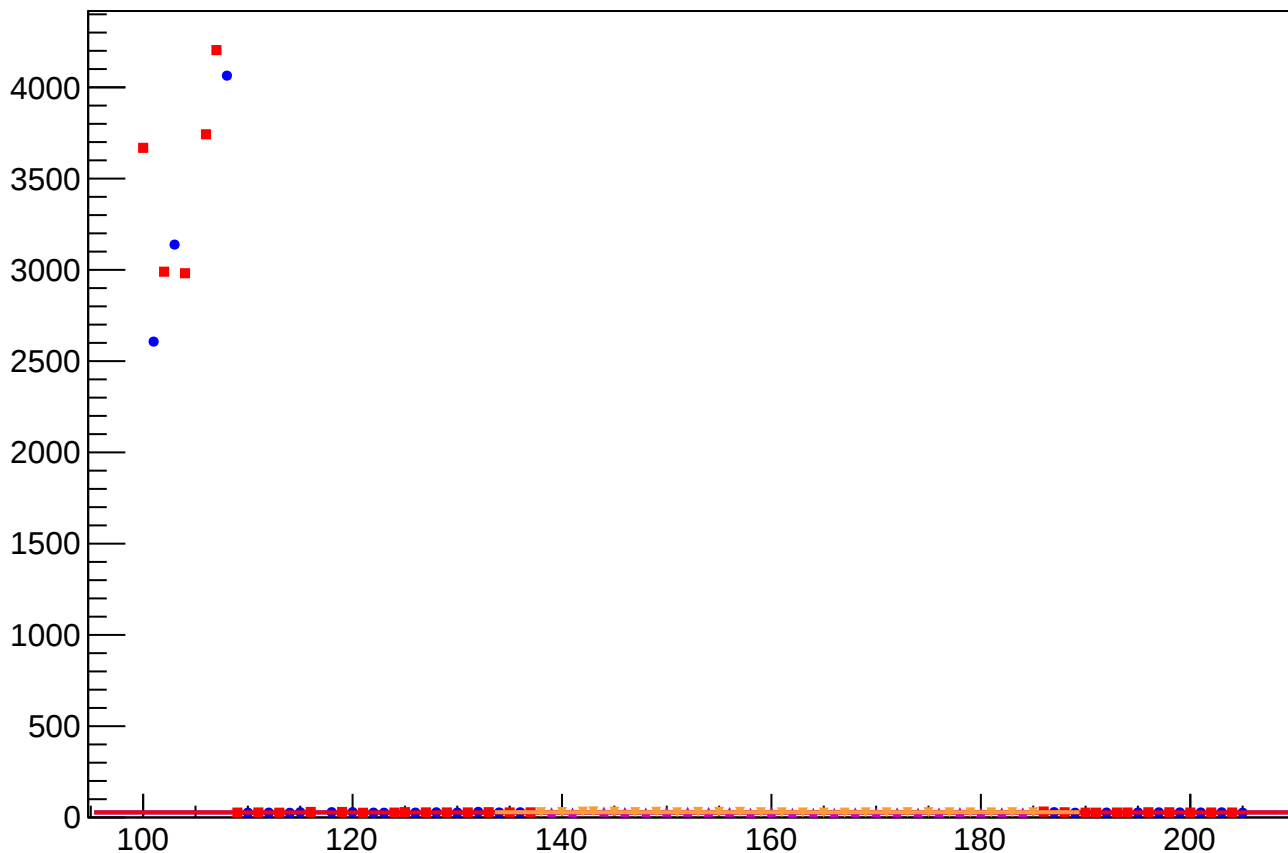
Right: 9.926+/-5.677 χ^2/NDF : 53.0/55

In: 3.290+/-5.257 χ^2/NDF :56.3/48

Out: -4.741+/-5.110 χ^2/NDF :60.2/54

All: -0.839+/-3.664 χ^2/NDF : 117.7/103

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.555 $\pm$ 0.006 χ^2 /NDF: 3040148.6/25

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.615 $\pm$ 0.006 χ^2 /NDF: 3503126.1/29

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

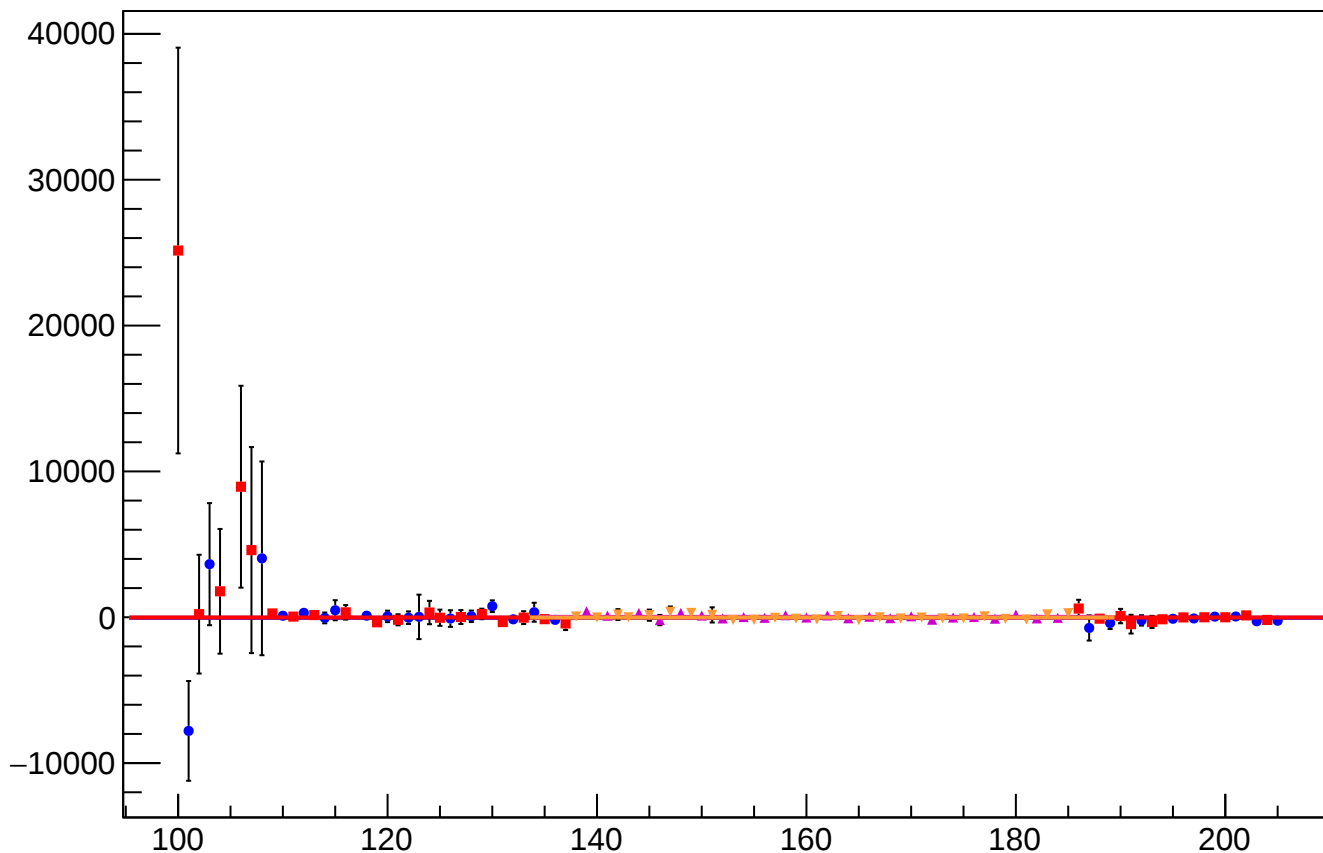
Right: 27.586 $\pm$ 0.004 χ^2 /NDF: 6543329.9/55

In: 28.208 $\pm$ 0.004 χ^2 /NDF: 3186847.5/48

Out: 28.242 $\pm$ 0.004 χ^2 /NDF: 3635151.7/54

All: 28.225 $\pm$ 0.003 χ^2 /NDF: 6822043.0/103

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -34.429+/-53.398 χ^2/NDF : 20.2/25

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: -17.155+/-53.278 χ^2/NDF : 16.5/29

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

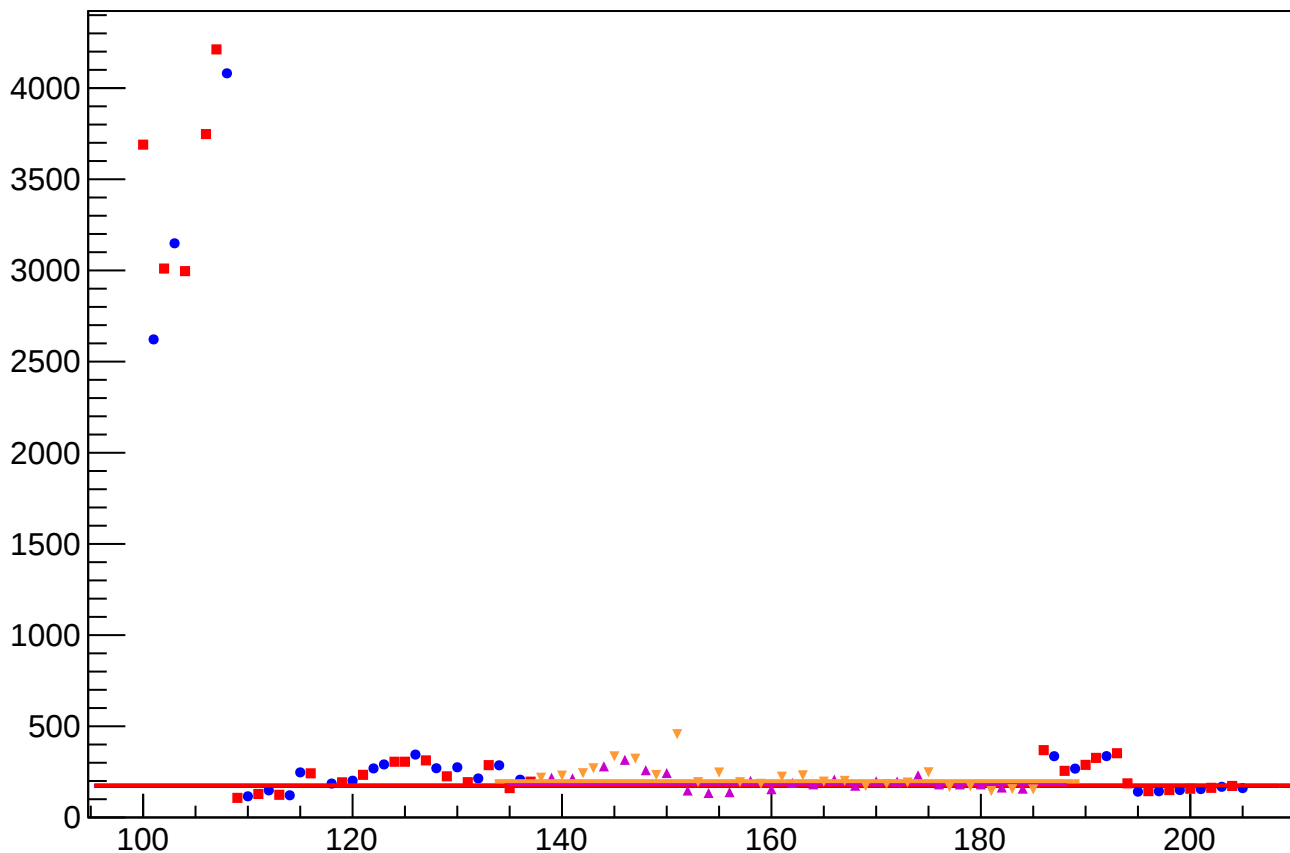
Right: -25.773+/-37.716 χ^2/NDF : 36.8/55

In: 0.979+/-34.757 χ^2/NDF : 28.8/48

Out: -16.234+/-35.706 χ^2/NDF : 25.2/54

All: -7.396+/-24.906 χ^2/NDF : 54.1/103

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.222 $\pm$ 0.038 χ^2 /NDF: 4488793.1/25

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 176.146 $\pm$ 0.038 χ^2 /NDF: 5325599.1/29

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

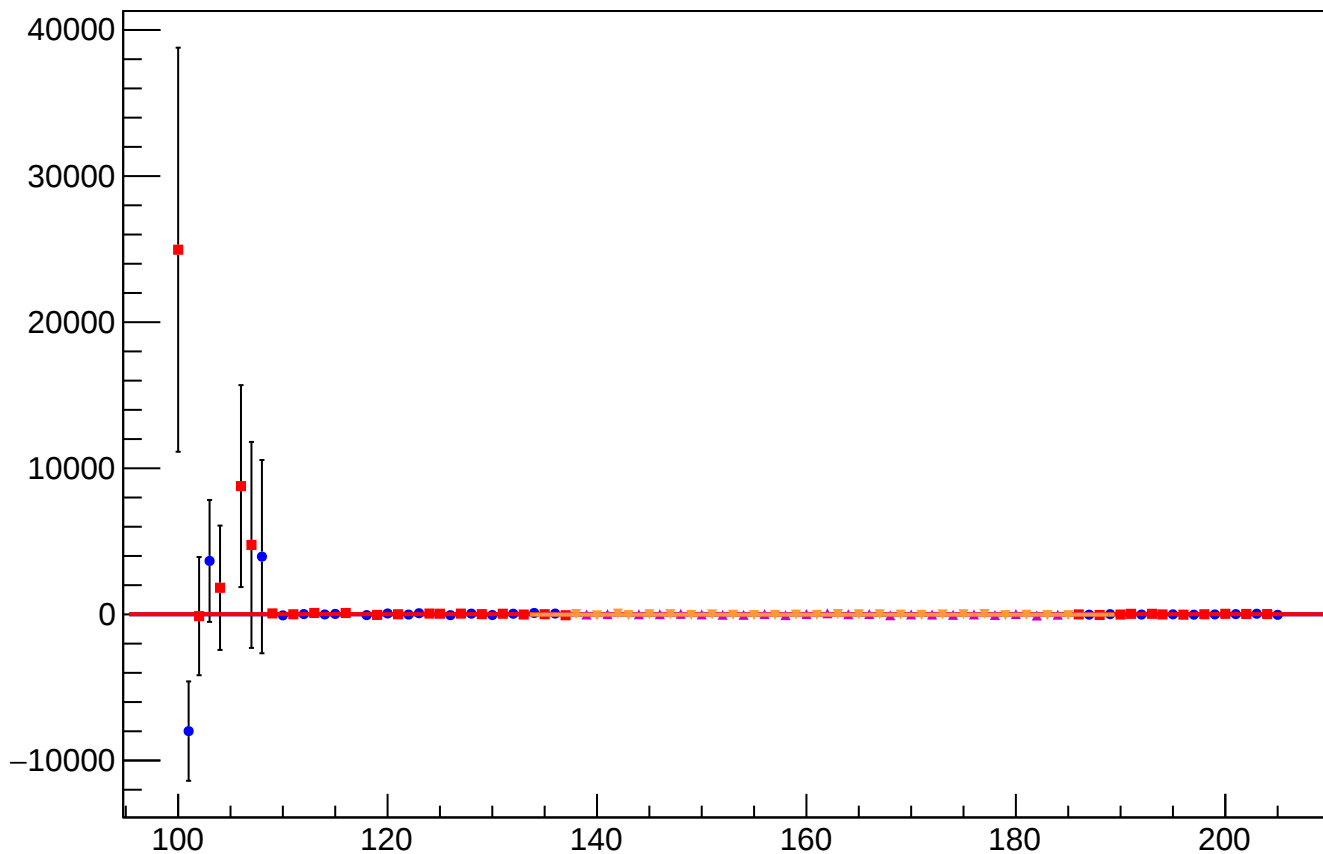
Right: 174.687 $\pm$ 0.027 χ^2 /NDF: 9817397.9/55

In: 179.242 $\pm$ 0.025 χ^2 /NDF:5955794.8/48

Out: 188.787 $\pm$ 0.025 χ^2 /NDF:7410329.1/54

All: 183.886 $\pm$ 0.018 χ^2 /NDF: 13439512.9/100

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.085+/-8.131 χ^2/NDF : 27.2/25

Left Out: -15.006+/-6.723 χ^2/NDF :17.5/24

Right Out: 16.978+/-7.909 χ^2/NDF : 24.8/29

Left In: -0.702+/-6.909 χ^2/NDF :26.4/22

Left: -8.049+/-4.819 χ^2/NDF : 46.0/47

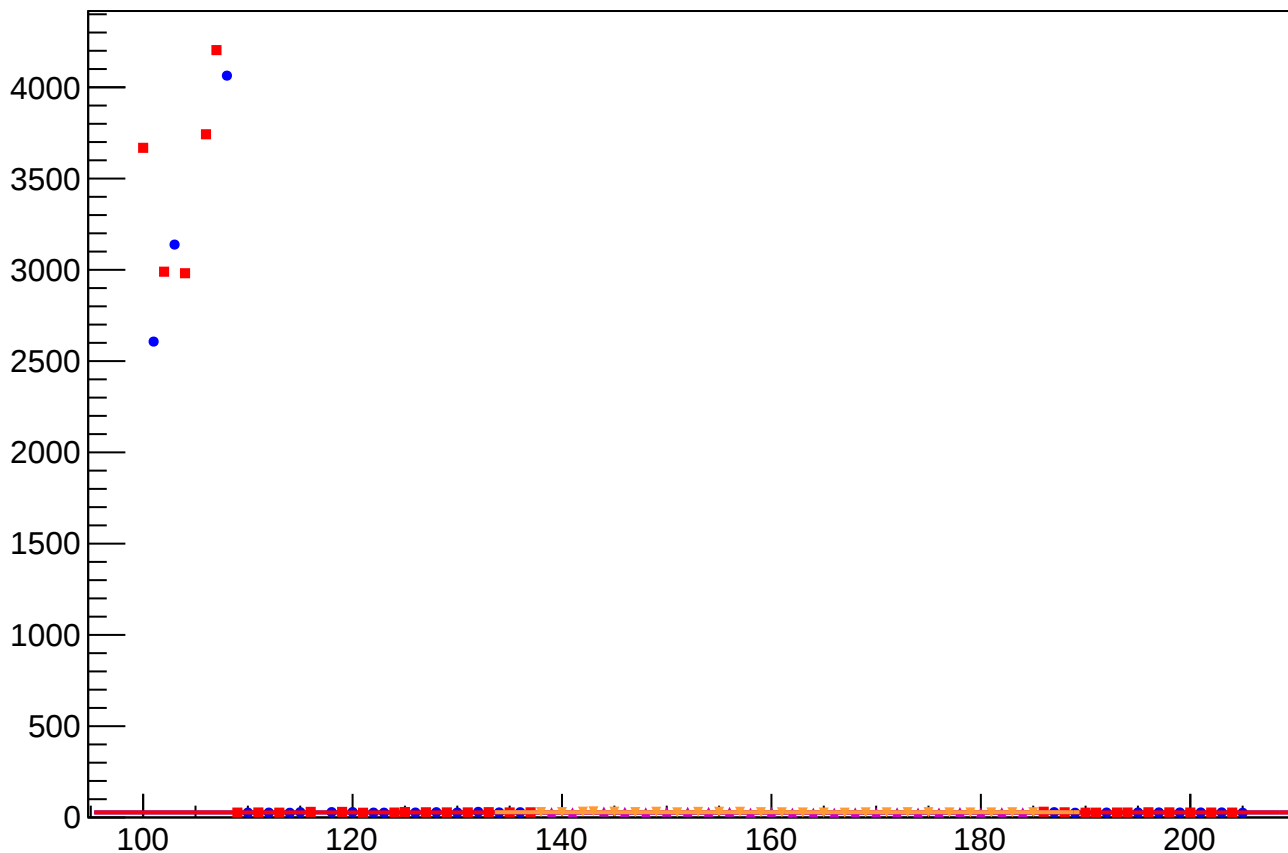
Right: 10.710+/-5.669 χ^2/NDF : 53.3/55

In: 1.305+/-5.265 χ^2/NDF :53.8/48

Out: -1.589+/-5.123 χ^2/NDF :51.8/54

All: -0.182+/-3.672 χ^2/NDF : 105.7/103

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.486 $\pm$ 0.006 χ^2 /NDF: 3045571.6/25

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.600 $\pm$ 0.006 χ^2 /NDF: 3502838.0/29

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

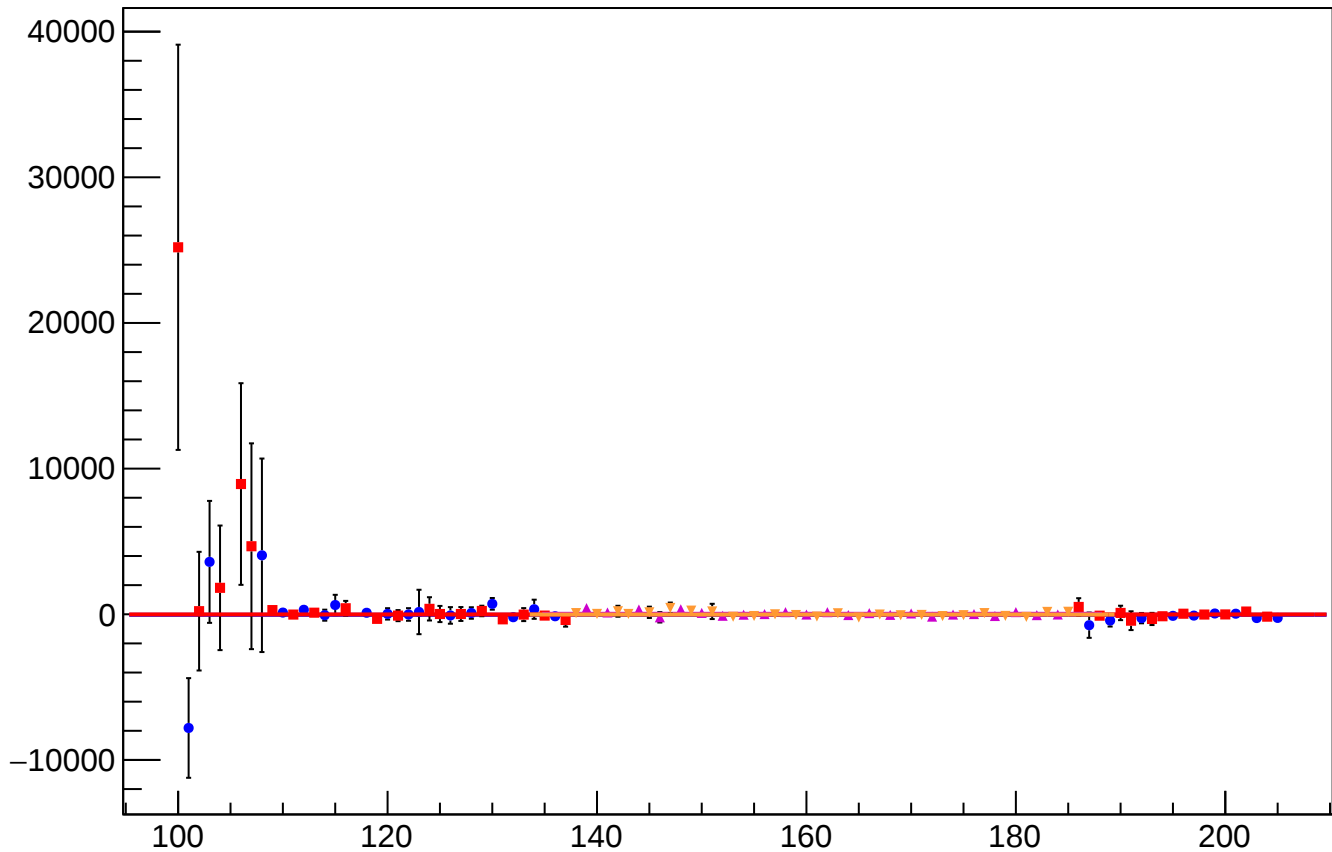
Right: 27.545 $\pm$ 0.004 χ^2 /NDF: 6548611.0/55

In: 28.245 $\pm$ 0.004 χ^2 /NDF: 3204930.3/48

Out: 28.304 $\pm$ 0.004 χ^2 /NDF: 3652098.2/54

All: 28.275 $\pm$ 0.003 χ^2 /NDF: 6857158.3/103

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -36.440 ± 53.774 χ^2/NDF : 20.5/25

Left Out: -15.548 ± 48.688 χ^2/NDF : 8.0/24

Right Out: -10.533 ± 53.703 χ^2/NDF : 16.0/29

Left In: 31.170 ± 46.359 χ^2/NDF : 8.2/22

Left: 8.955 ± 33.574 χ^2/NDF : 16.6/47

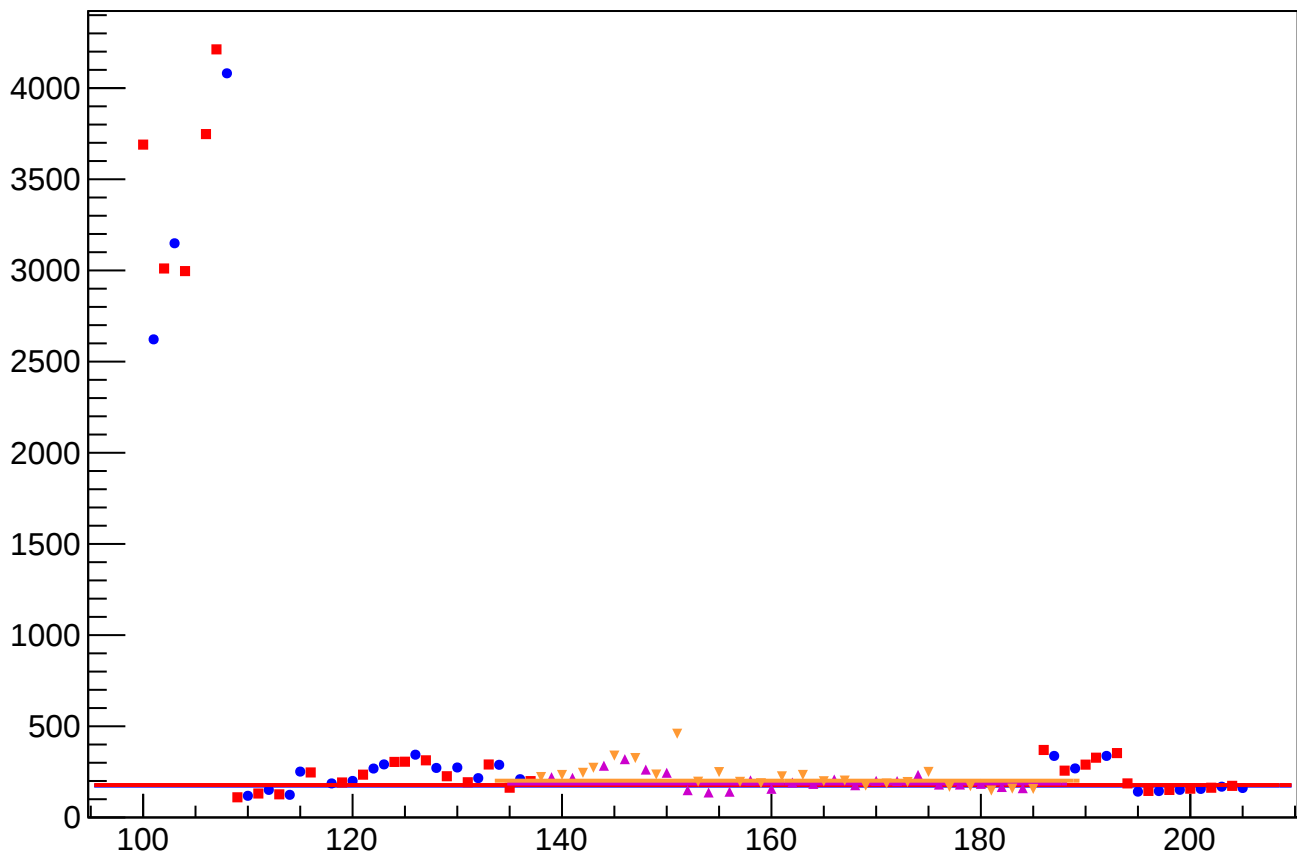
Right: -23.469 ± 37.999 χ^2/NDF : 36.5/55

In: 2.344 ± 35.112 χ^2/NDF : 29.6/48

Out: -13.285 ± 36.071 χ^2/NDF : 24.0/54

All: -5.260 ± 25.160 χ^2/NDF : 53.6/103

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.565 $\pm$ 0.038 χ^2 /NDF: 4457058.4/25

Left Out: 201.600 $\pm$ 0.034 χ^2 /NDF:1857453.2/24

Right Out: 177.820 $\pm$ 0.038 χ^2 /NDF: 5263515.5/29

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

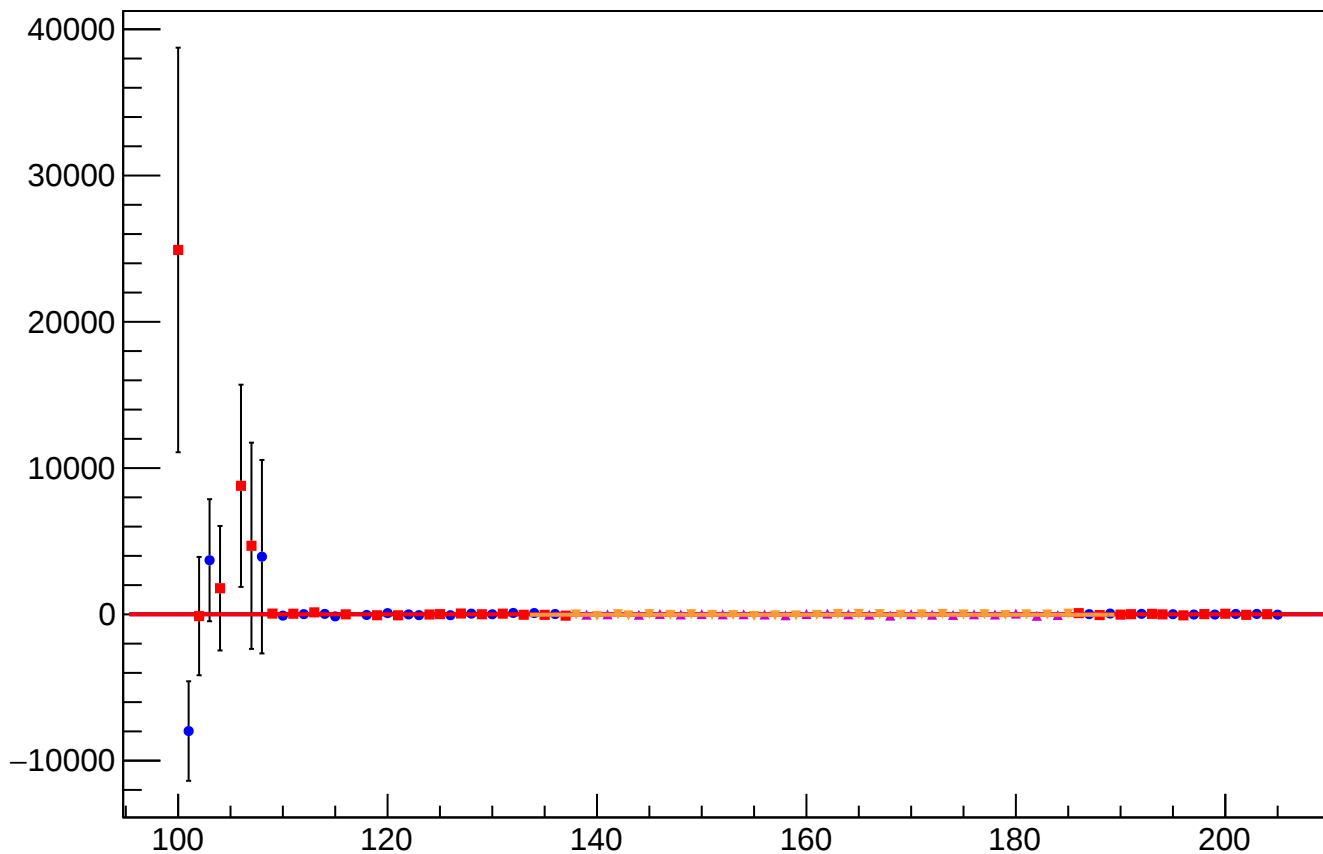
Right: 176.195 $\pm$ 0.027 χ^2 /NDF: 9724243.2/55

In: 181.186 $\pm$ 0.025 χ^2 /NDF:5901240.1/48

Out: 190.872 $\pm$ 0.026 χ^2 /NDF:7336204.2/54

All: 185.899 $\pm$ 0.018 χ^2 /NDF: 13311493.5/100

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.885+/-9.923 χ^2/NDF : 23.6/25

Left Out: -23.360+/-8.064 χ^2/NDF : 25.8/24

Right Out: 4.792+/-9.639 χ^2/NDF : 31.9/29

Left In: -6.001+/-8.309 χ^2/NDF : 21.1/22

Left: -14.939+/-5.787 χ^2/NDF : 49.2/47

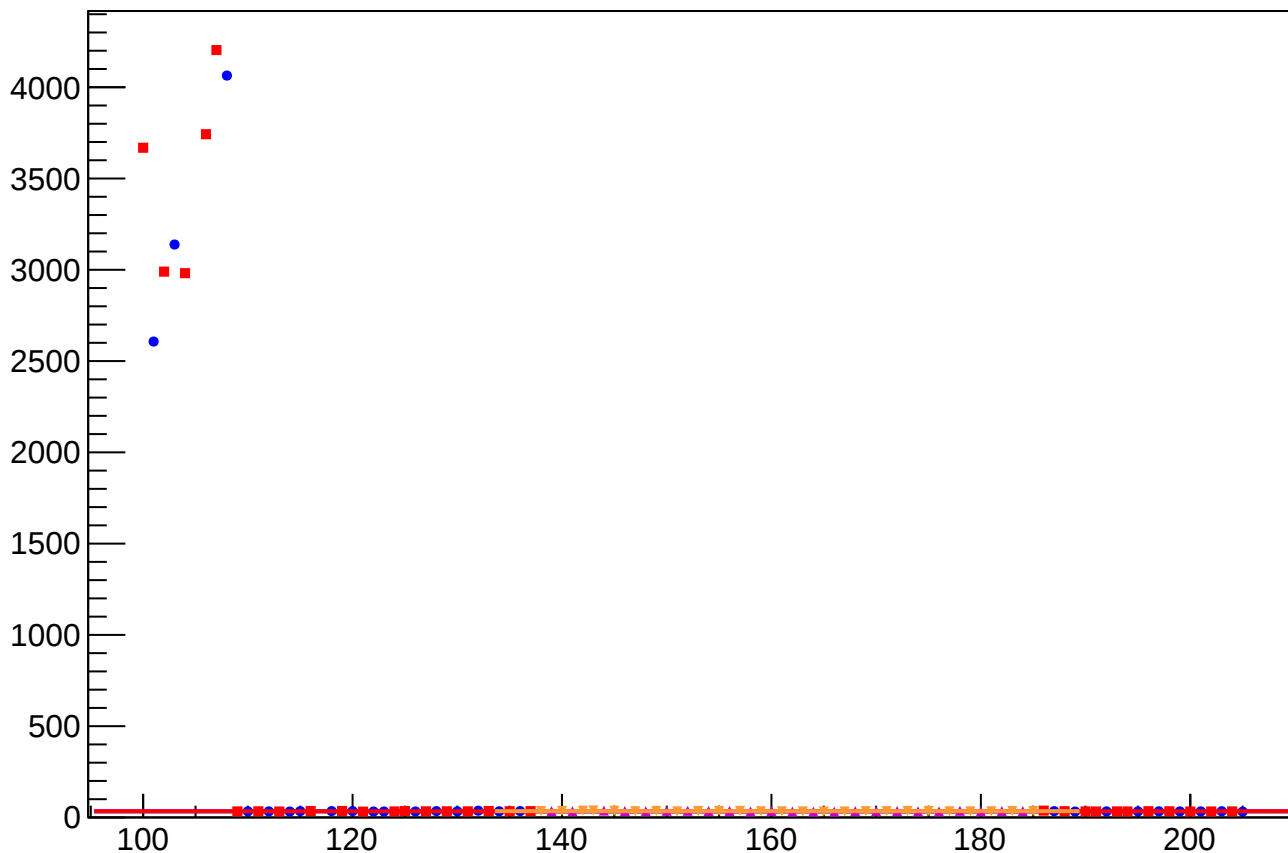
Right: 7.265+/-6.914 χ^2/NDF : 55.7/55

In: 0.547+/-6.370 χ^2/NDF : 46.2/48

Out: -11.768+/-6.185 χ^2/NDF : 62.8/54

All: -5.792+/-4.438 χ^2/NDF : 110.9/103

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.567 $\pm$ 0.007 χ^2 /NDF: 3017570.8/25

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.685 $\pm$ 0.007 χ^2 /NDF: 3466395.0/29

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

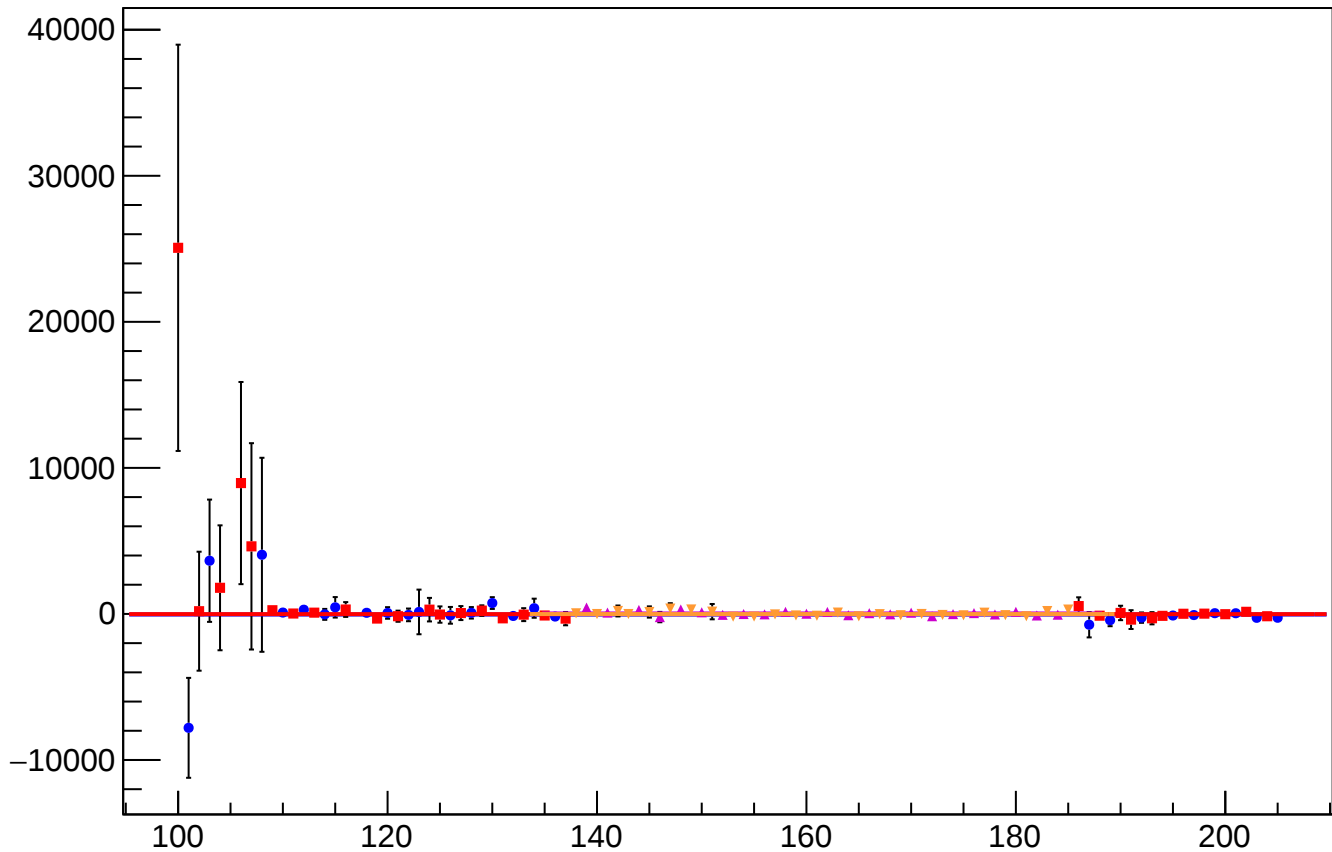
Right: 33.628 $\pm$ 0.005 χ^2 /NDF: 6484112.4/55

In: 34.224 $\pm$ 0.005 χ^2 /NDF: 3092810.9/48

Out: 34.232 $\pm$ 0.004 χ^2 /NDF: 3535267.0/54

All: 34.228 $\pm$ 0.003 χ^2 /NDF: 6628079.4/103

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -40.101+/-53.612 χ^2/NDF : 20.2/25

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: -13.361+/-53.484 χ^2/NDF : 14.3/29

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

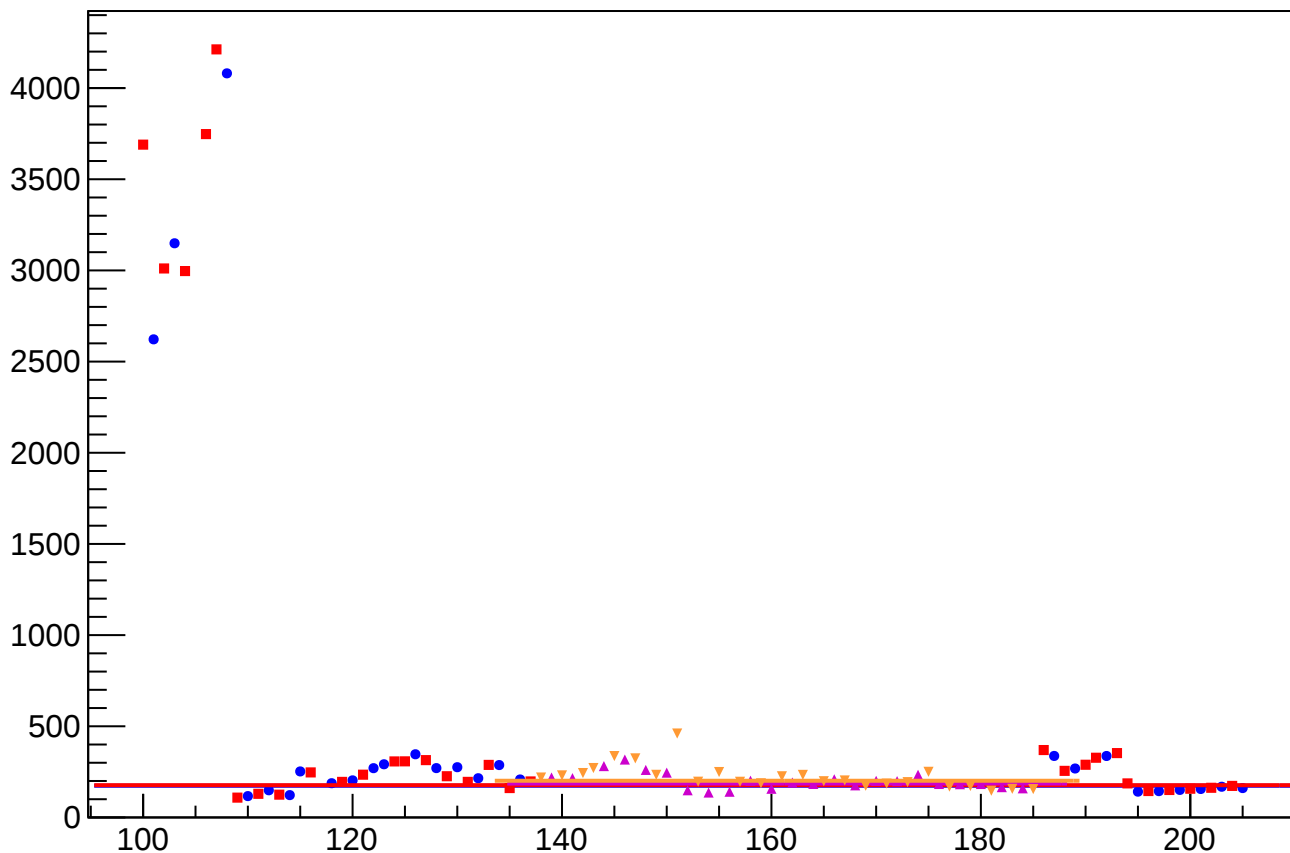
Right: -26.699+/-37.864 χ^2/NDF : 34.6/55

In: 2.419+/-35.040 χ^2/NDF : 28.7/48

Out: -10.927+/-35.975 χ^2/NDF : 22.9/54

All: -4.078+/-25.101 χ^2/NDF : 51.7/103

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.930 +/- 0.038 χ^2/NDF : 4486420.9/25

Left Out: 201.296 +/- 0.034 χ^2/NDF : 1851134.1/24

Right Out: 176.886 +/- 0.038 χ^2/NDF : 5313784.4/29

Left In: 185.854 +/- 0.033 χ^2/NDF : 1381771.9/22

Left: 193.198 +/- 0.024 χ^2/NDF : 3338733.9/47

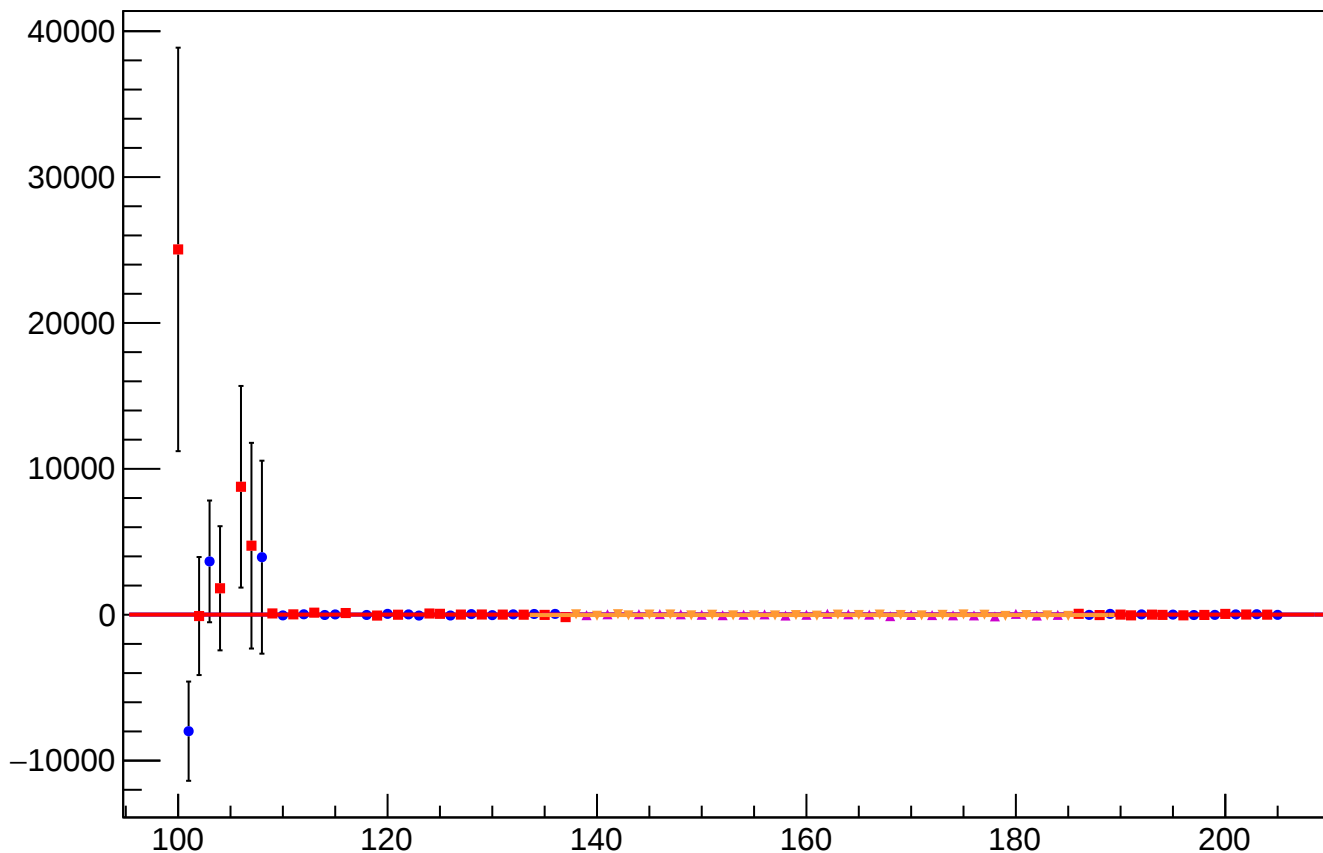
Right: 175.412 +/- 0.027 χ^2/NDF : 9803252.5/55

In: 180.761 +/- 0.025 χ^2/NDF : 5924860.7/48

Out: 190.253 +/- 0.025 χ^2/NDF : 7393039.2/54

All: 185.382 +/- 0.018 χ^2/NDF : 13389356.1/10

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.393+/-8.986 χ^2/NDF : 18.1/25

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 9.413+/-8.735 χ^2/NDF : 36.6/29

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

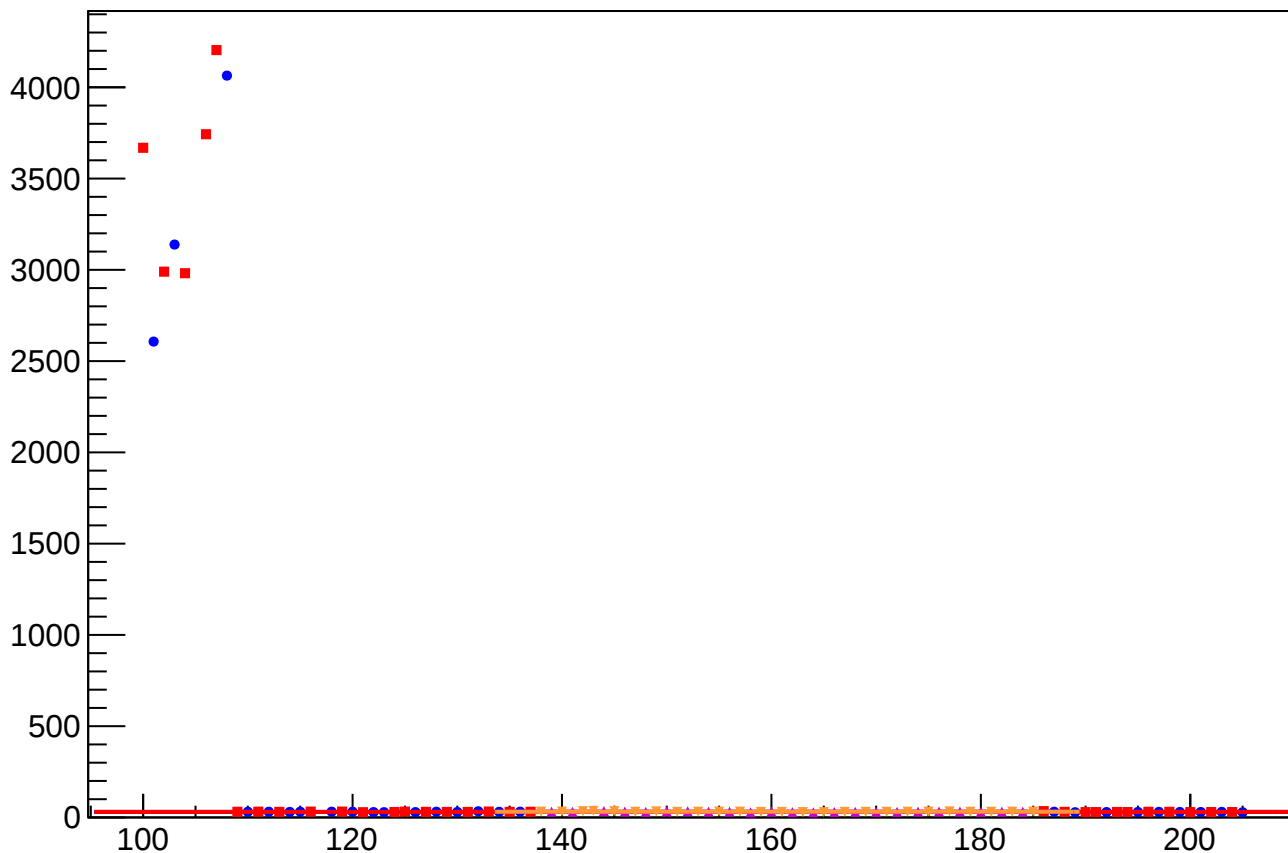
Right: 10.375+/-6.263 χ^2/NDF : 54.7/55

In: 1.231+/-5.780 χ^2/NDF : 58.6/48

Out: -9.513+/-5.619 χ^2/NDF : 63.3/54

All: -4.293+/-4.029 χ^2/NDF : 123.7/103

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.386 $\pm$ 0.006 χ^2 /NDF: 3034551.0/25

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.501 $\pm$ 0.006 χ^2 /NDF: 3482160.7/29

Left In: 31.484 $\pm$ 0.005 χ^2 /NDF:87981.1/22

Left: 31.483 $\pm$ 0.004 χ^2 /NDF: 170418.5/47

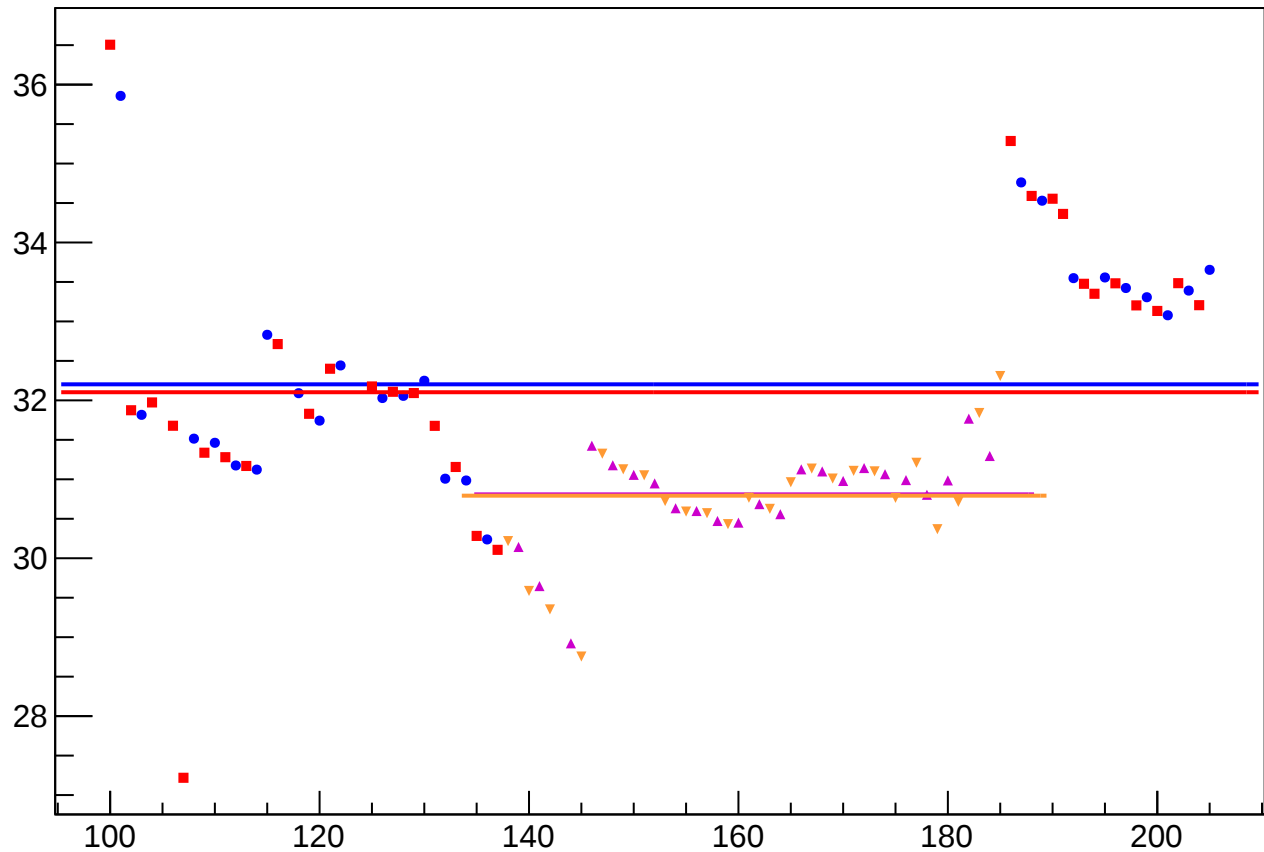
Right: 30.445 $\pm$ 0.004 χ^2 /NDF: 6516879.5/55

In: 31.030 $\pm$ 0.004 χ^2 /NDF:3140047.1/48

Out: 31.076 $\pm$ 0.004 χ^2 /NDF:3579377.1/54

All: 31.054 $\pm$ 0.003 χ^2 /NDF: 6719488.8/103

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.203+/-0.000

χ²/NDF: 2400595222.1/24

Left Out: 30.793+/-0.000

χ²/NDF: 1007261340.7/23

Right Out: 32.103+/-0.000

χ²/NDF: 2118101008.1/28

Left In: 30.809+/-0.000

χ²/NDF: 821961762.3/22

Left: 30.801+/-0.000

χ²/NDF: 1829591088.1/46

Right: 32.154+/-0.000

χ²/NDF: 4526570647.0/53

In: 31.330+/-0.000

χ²/NDF: 5159209858.6/47

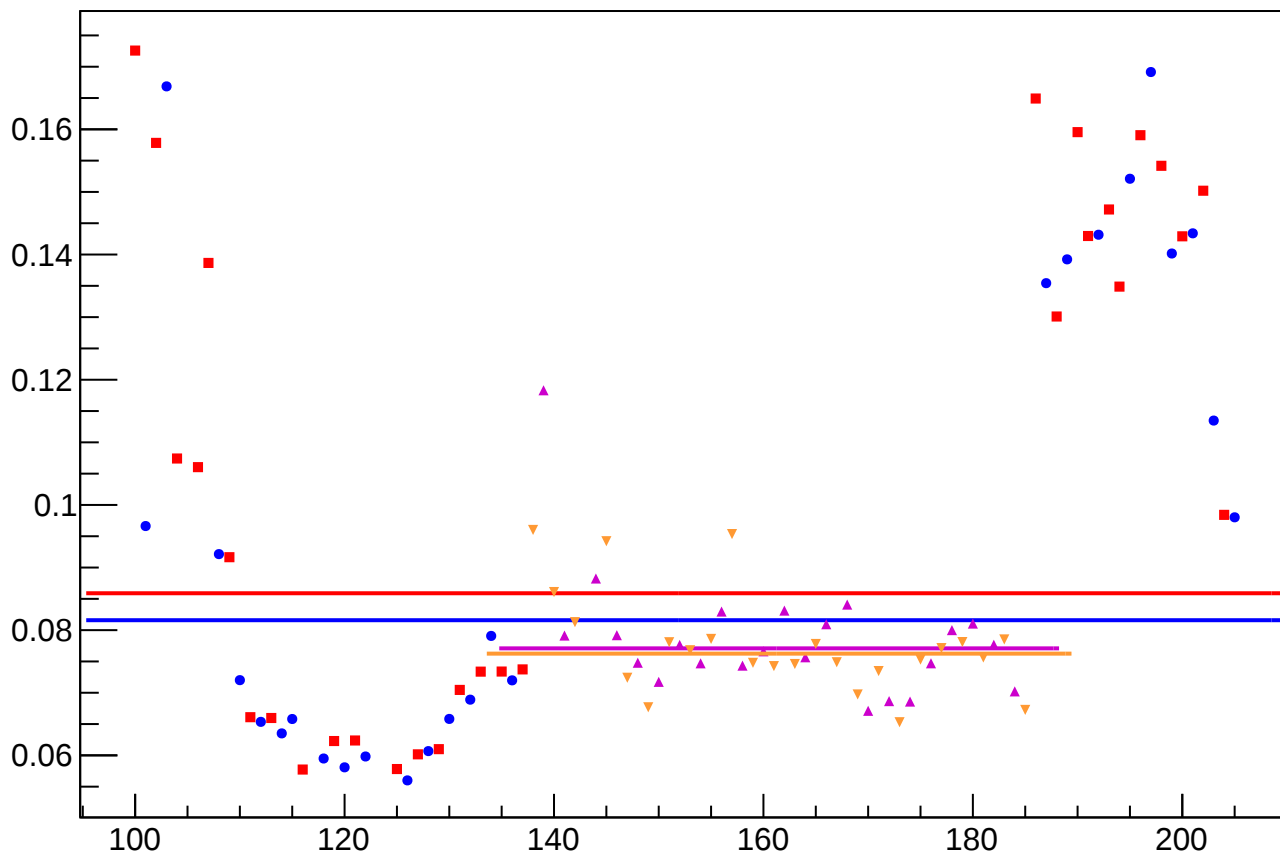
Out: 31.264+/-0.000

χ²/NDF: 4828349428.1/52

All: 31.297+/-0.000

χ²/NDF: 9997090012.9/100

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.082+/-0.000 χ^2/NDF : 3068612.5/24

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.086+/-0.000 χ^2/NDF : 3550156.7/28

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

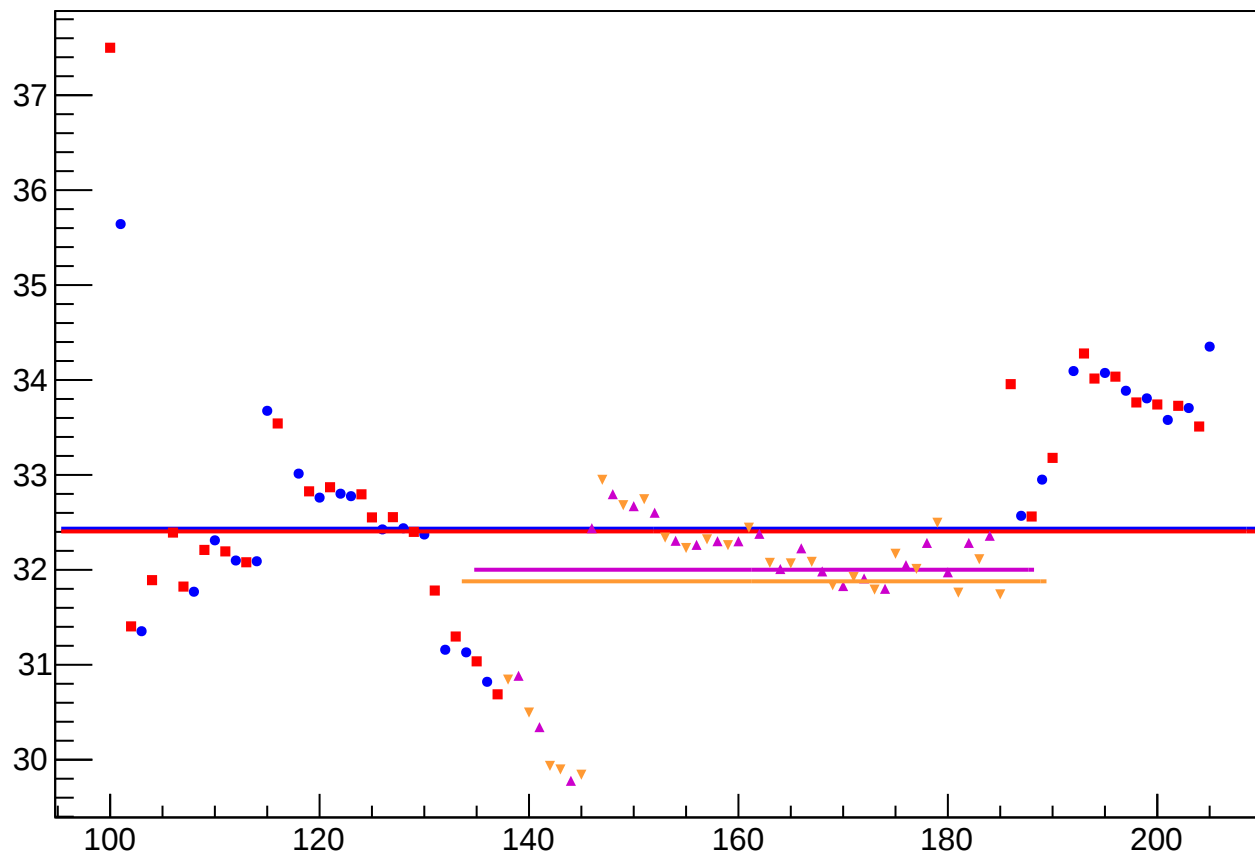
Right: 0.084+/-0.000 χ^2/NDF : 6647872.1/53

In: 0.079+/-0.000 χ^2/NDF : 3434769.4/47

Out: 0.080+/-0.000 χ^2/NDF : 4012574.1/52

All: 0.079+/-0.000 χ^2/NDF : 7451152.3/100

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.434+/-0.000 χ^2/NDF : 1328655740.7/25

Left Out: 31.879+/-0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.405+/-0.000 χ^2/NDF : 775015602.2/28

Left In: 32.001+/-0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939+/-0.000 χ^2/NDF : 3408370857.8/47

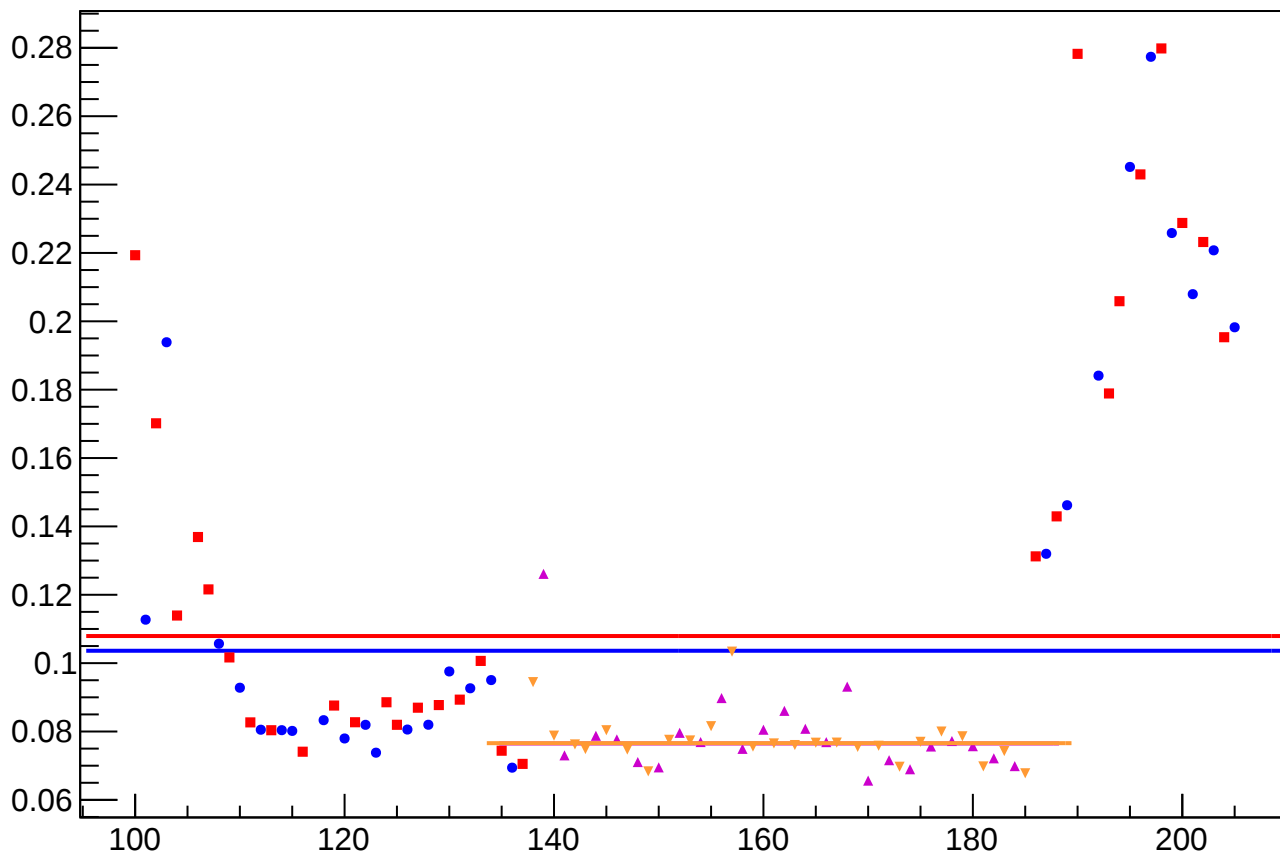
Right: 32.419+/-0.000 χ^2/NDF : 2104057709.3/54

In: 32.110+/-0.000 χ^2/NDF : 2869339569.9/48

Out: 32.008+/-0.000 χ^2/NDF : 2946583681.9/53

All: 32.058+/-0.000 χ^2/NDF : 5835447325.1/100

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.104+/-0.000 χ^2/NDF : 4186167.3/25

Left Out: 0.077+/-0.000 χ^2/NDF : 209648.5/24

Right Out: 0.108+/-0.000 χ^2/NDF : 4056878.4/28

Left In: 0.076+/-0.000 χ^2/NDF : 432563.3/22

Left: 0.077+/-0.000 χ^2/NDF : 642235.6/47

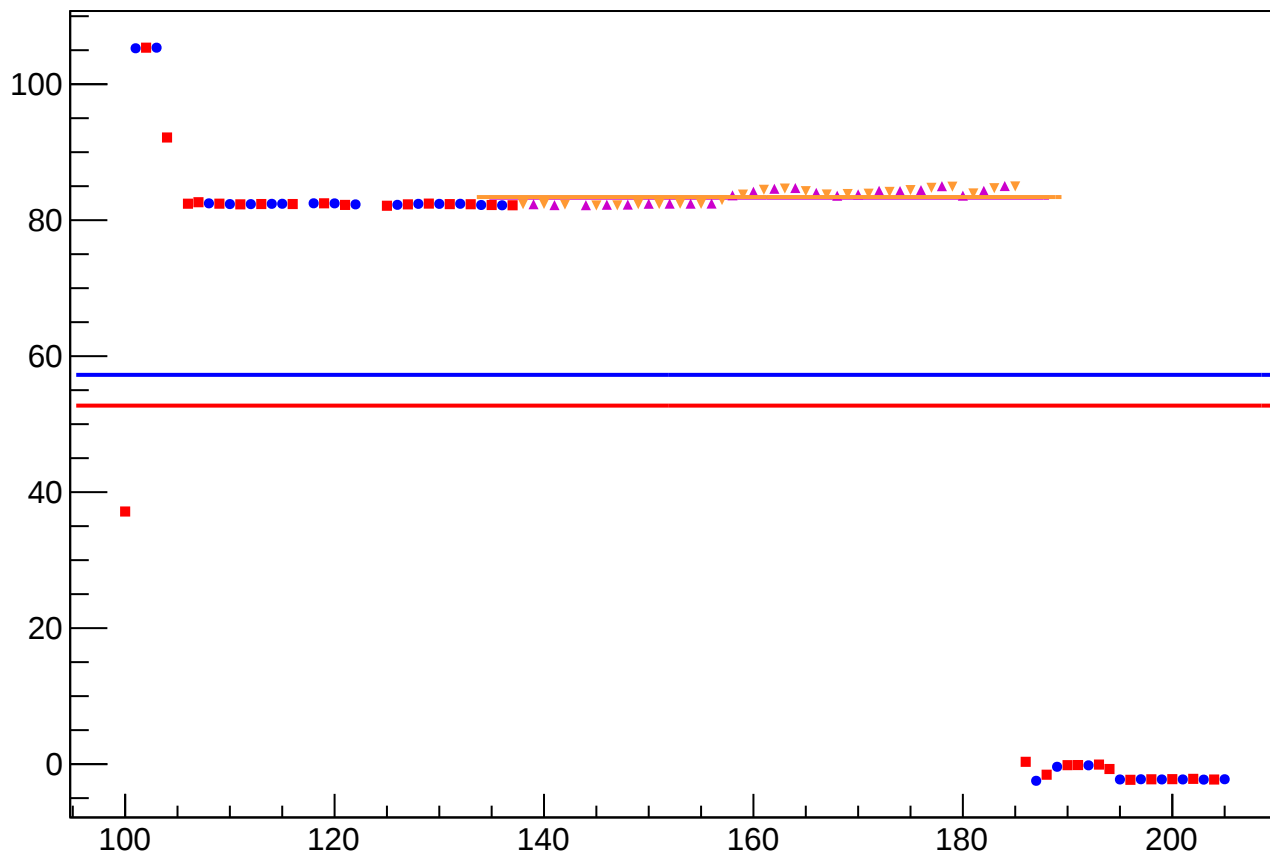
Right: 0.106+/-0.000 χ^2/NDF : 8260343.1/54

In: 0.083+/-0.000 χ^2/NDF : 5638645.6/48

Out: 0.084+/-0.000 χ^2/NDF : 5654635.1/53

All: 0.084+/-0.000 χ^2/NDF : 11296628.6/102

yield_dsl_mean vs Slug, Sign Corrected



Right In: 57.251+/-0.000

χ^2/NDF : 9973917414782.0/24

Left: 83.355+/-0.000

χ^2/NDF : 17213898269.1/46

Left Out: 83.402+/-0.000

χ^2/NDF : 8756634444.3/23

Right: 54.876+/-0.000

χ^2/NDF : 21006805538322.9/46

Right Out: 52.728+/-0.000

χ^2/NDF : 10972487161792.2/28

In: 72.801+/-0.000

χ^2/NDF : 12260240133942.0/47

Out: 70.256+/-0.000

χ^2/NDF : 14322816989952.7/50

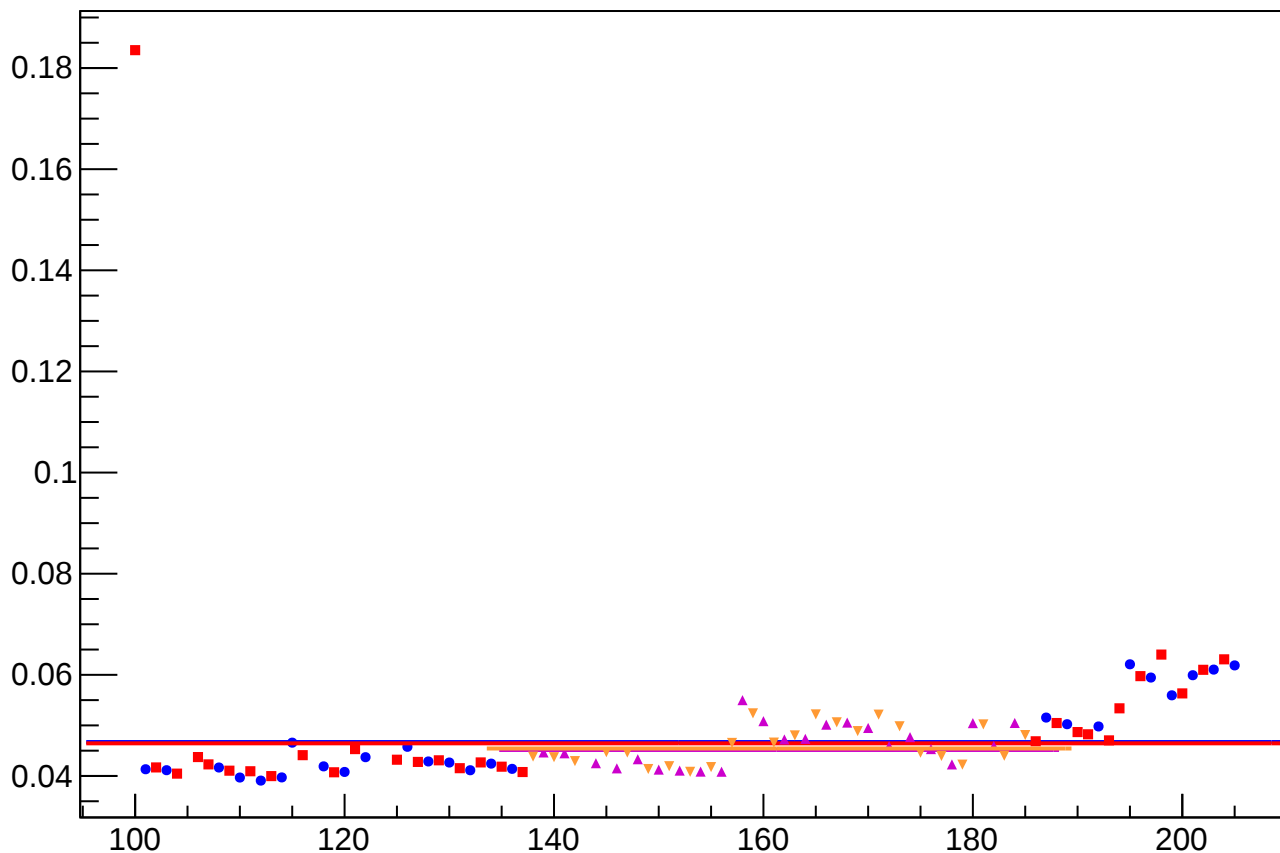
Left In: 83.309+/-0.000

χ^2/NDF : 8421247810.9/22

All: 71.503+/-0.000

χ^2/NDF : 2662906656545.0/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 675380.7/24

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.046 $\pm$ 0.000 χ^2 /NDF: 680316.3/28

Left In: 0.045 $\pm$ 0.000 χ^2 /NDF:242885.4/22

Left: 0.045 $\pm$ 0.000 χ^2 /NDF: 450258.5/46

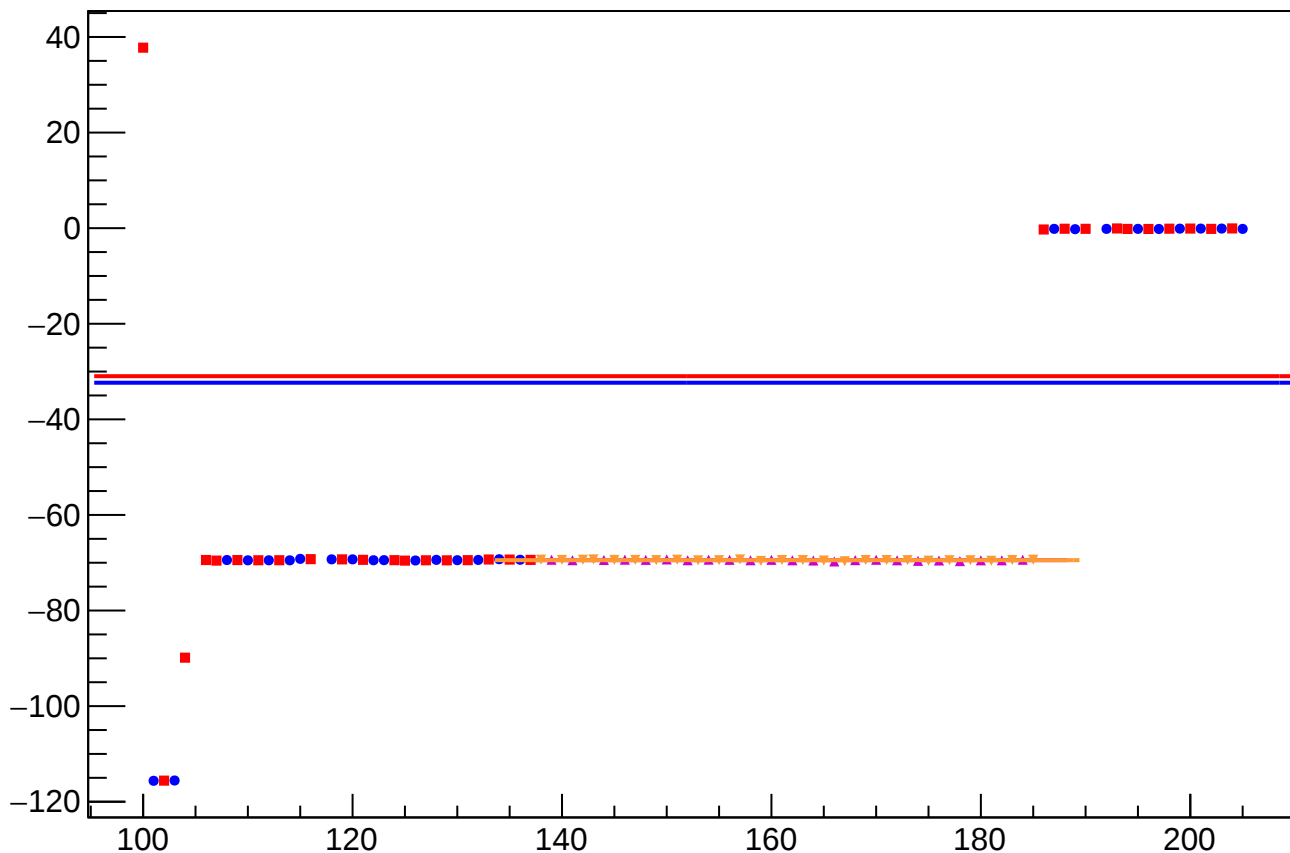
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 1356082.5/53

In: 0.046 $\pm$ 0.000 χ^2 /NDF:934725.3/47

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:894435.2/52

All: 0.046 $\pm$ 0.000 χ^2 /NDF: 1829287.4/100

yield_dsr_mean vs Slug, Sign Corrected



Right In: -32.336+/-0.000

χ^2/NDF : 7140412491236.6/25

Left: -69.460+/-0.000

χ^2/NDF : 102399164.0/47

Left Out: -69.461+/-0.000

χ^2/NDF : 49572401.9/24

Right: -31.627+/-0.000

χ^2/NDF : 14134861037170.7

Right Out: -30.970+/-0.000

χ^2/NDF : 6990030254211.6/28

In: -52.545+/-0.000

χ^2/NDF : 10562174744669.6/4

Out: -51.840+/-0.000

χ^2/NDF : 10944657828218.2/

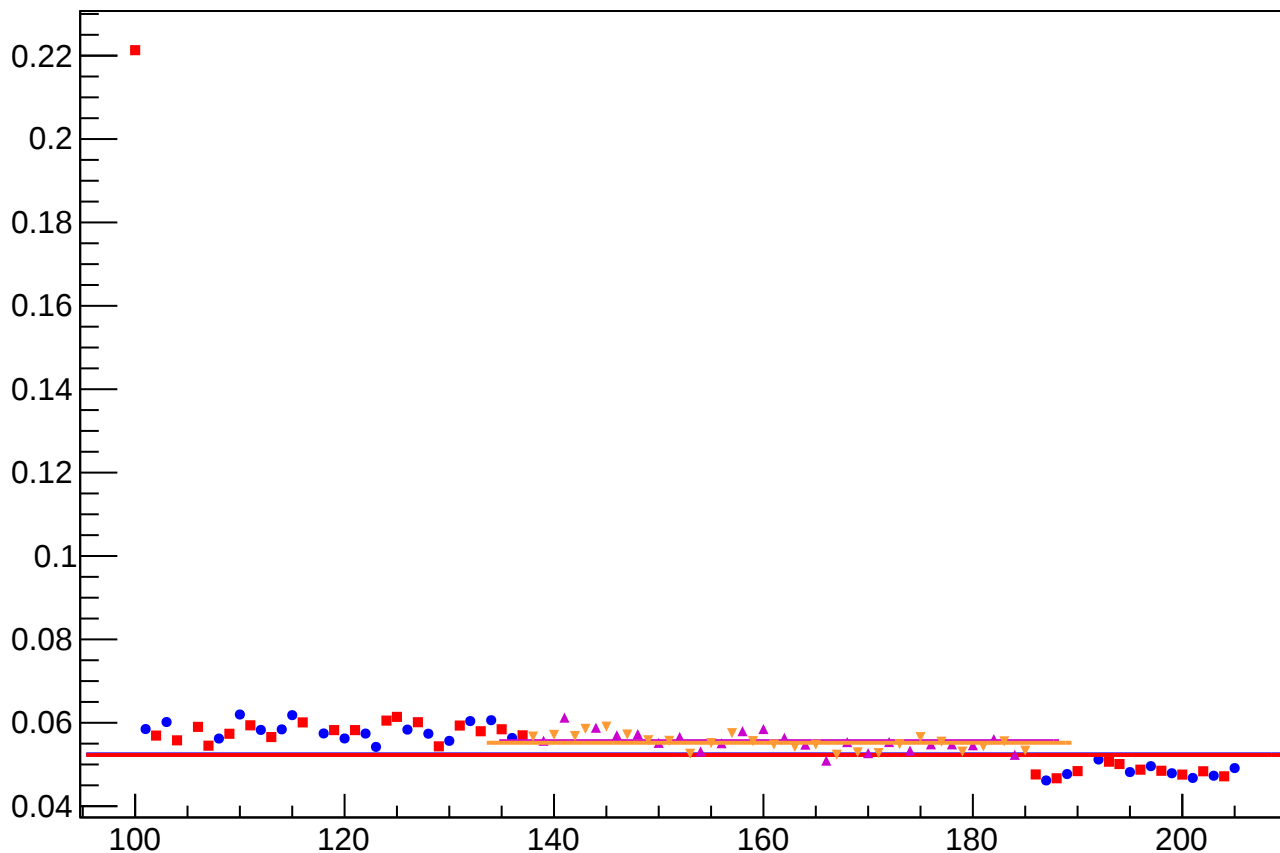
Left In: -69.458+/-0.000

χ^2/NDF : 52798704.3/22

All: -52.180+/-0.000

χ^2/NDF : 215094150570

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 225400.9/25

Left Out: 0.055+/-0.000 χ^2/NDF : 38761.8/24

Right Out: 0.052+/-0.000 χ^2/NDF : 313760.1/28

Left In: 0.056+/-0.000 χ^2/NDF : 52190.5/22

Left: 0.055+/-0.000 χ^2/NDF : 91784.6/47

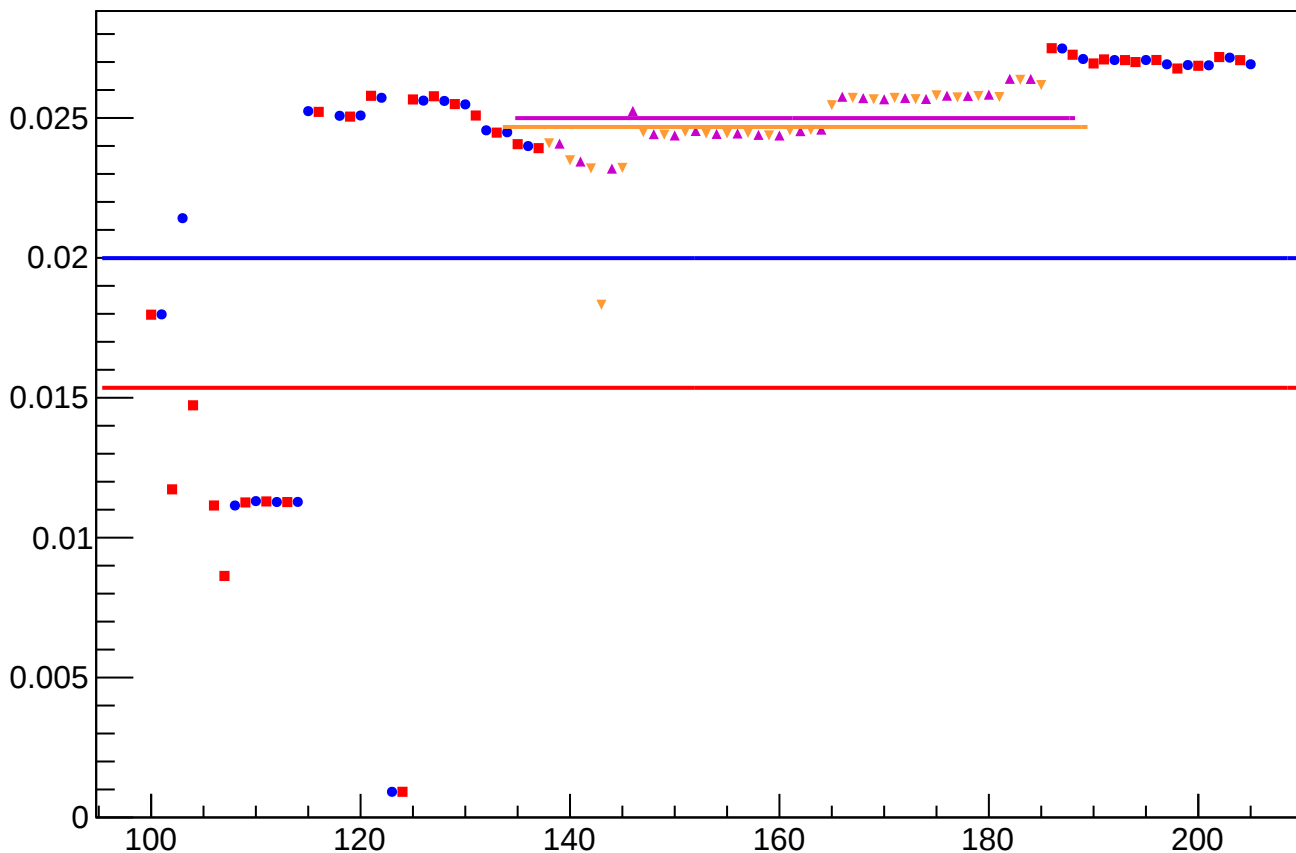
Right: 0.052+/-0.000 χ^2/NDF : 539232.2/54

In: 0.054+/-0.000 χ^2/NDF : 327759.2/48

Out: 0.054+/-0.000 χ^2/NDF : 397933.2/53

All: 0.054+/-0.000 χ^2/NDF : 726456.9/102

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.020 $\pm$ 0.000

χ^2 /NDF: 178294484077.2/25

Left: 0.025 $\pm$ 0.000

χ^2 /NDF: 12284812437.7/47

Left Out: 0.025 $\pm$ 0.000

χ^2 /NDF: 9641065555.8/24

Right: 0.017 $\pm$ 0.000

χ^2 /NDF: 594425209286.6/55

Right Out: 0.015 $\pm$ 0.000

χ^2 /NDF: 386506079505.6/29

In: 0.023 $\pm$ 0.000

χ^2 /NDF: 216617950691.0/48

Out: 0.020 $\pm$ 0.000

χ^2 /NDF: 546202539047.6/54

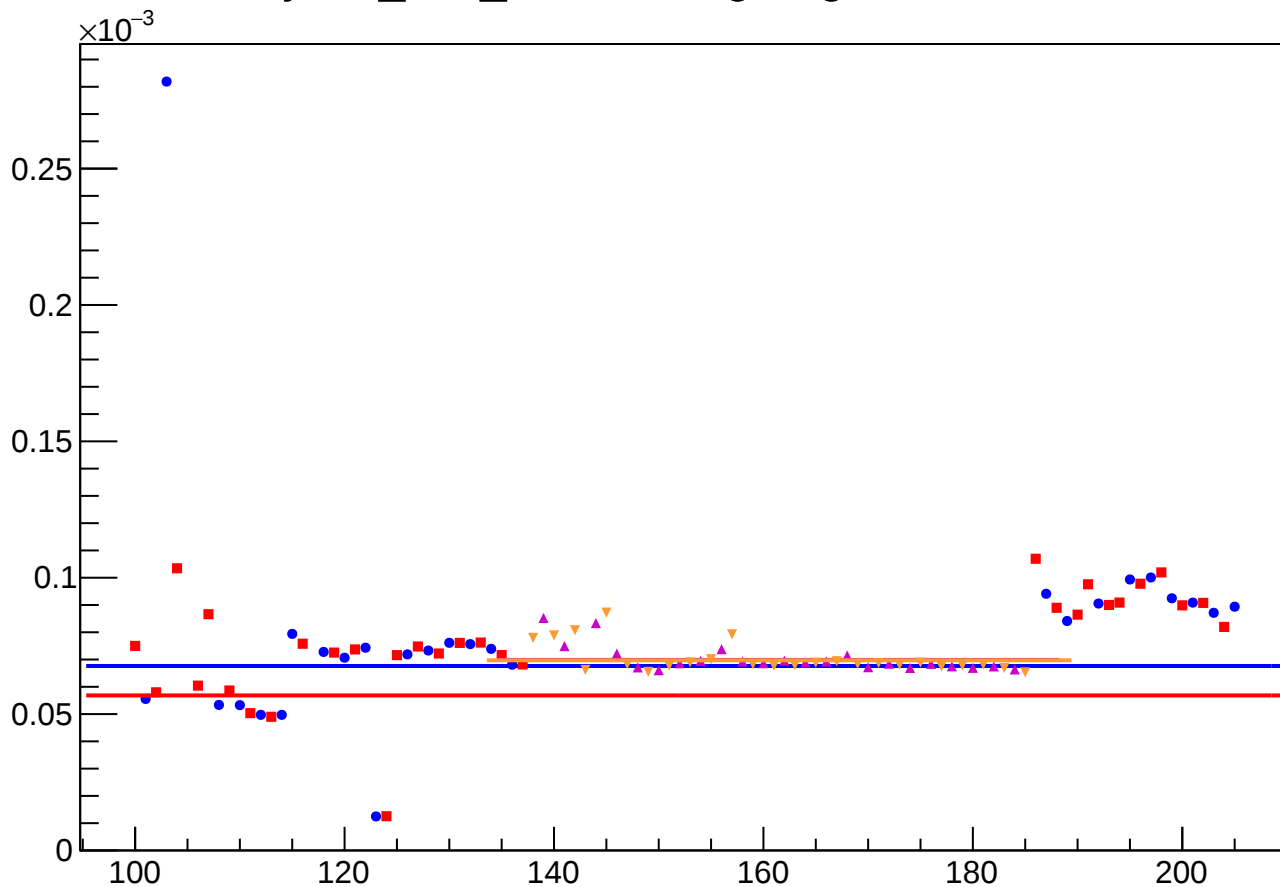
Left In: 0.025 $\pm$ 0.000

χ^2 /NDF: 2462473687.7/22

All: 0.022 $\pm$ 0.000

χ^2 /NDF: 784615496740.7

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000

χ^2/NDF : 3259531.3/25

Left Out: 0.000+/-0.000

χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000

χ^2/NDF : 6350631.8/29

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 : 9931583.6/55

In: 0.000+/-0.000

χ^2/NDF :3402945.3/48

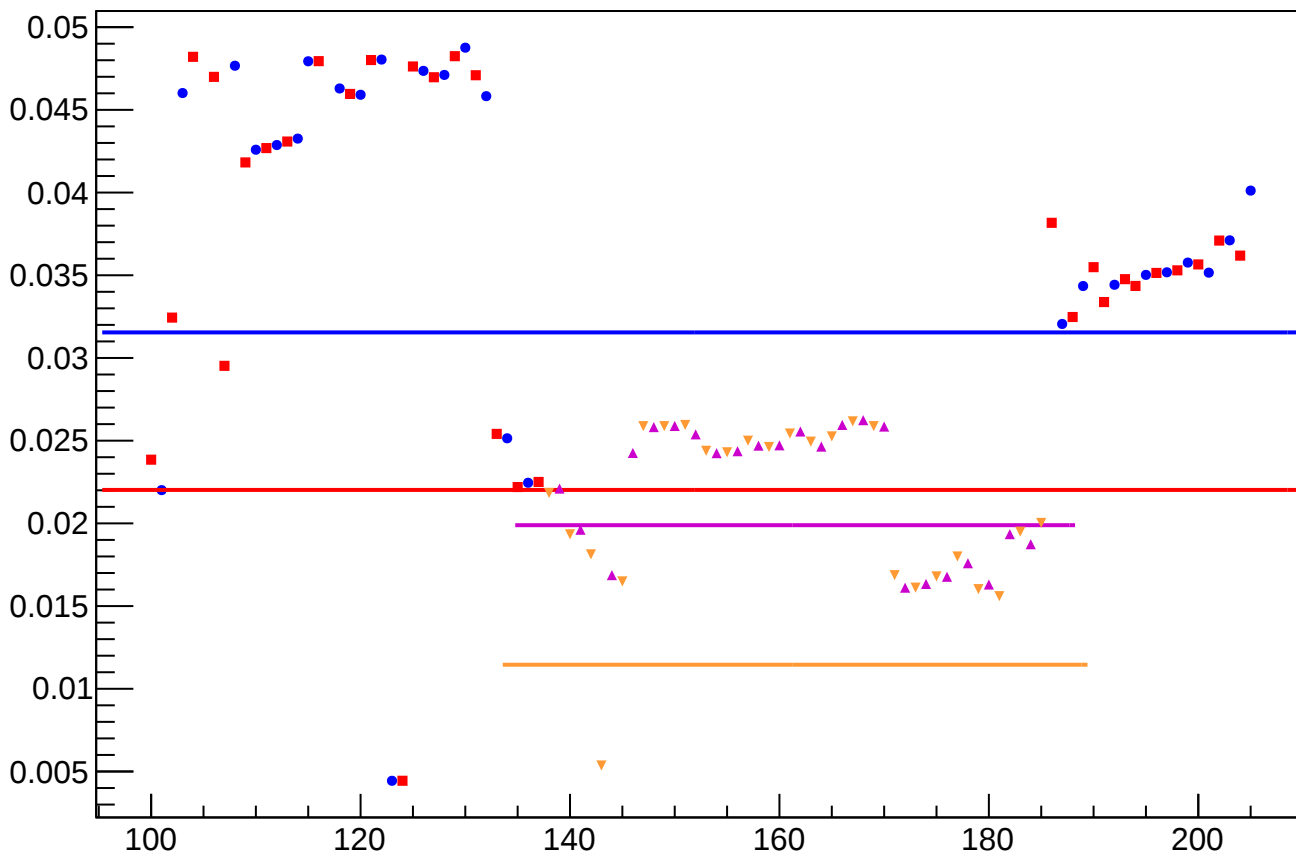
Out: 0.000+/-0.000

χ^2/NDF :7080928.9/54

All: 0.000+/-0.000

χ^2/NDF : 10657907.7/103

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 21409774990.6/25

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.026+/-0.000

χ^2/NDF : 69538858457.6/55

Right Out: 0.022+/-0.000

χ^2/NDF : 43351152718.3/29

In: 0.023+/-0.000

χ^2/NDF : 34882356474.3/48

Out: 0.013+/-0.000

χ^2/NDF : 96440369078.2/54

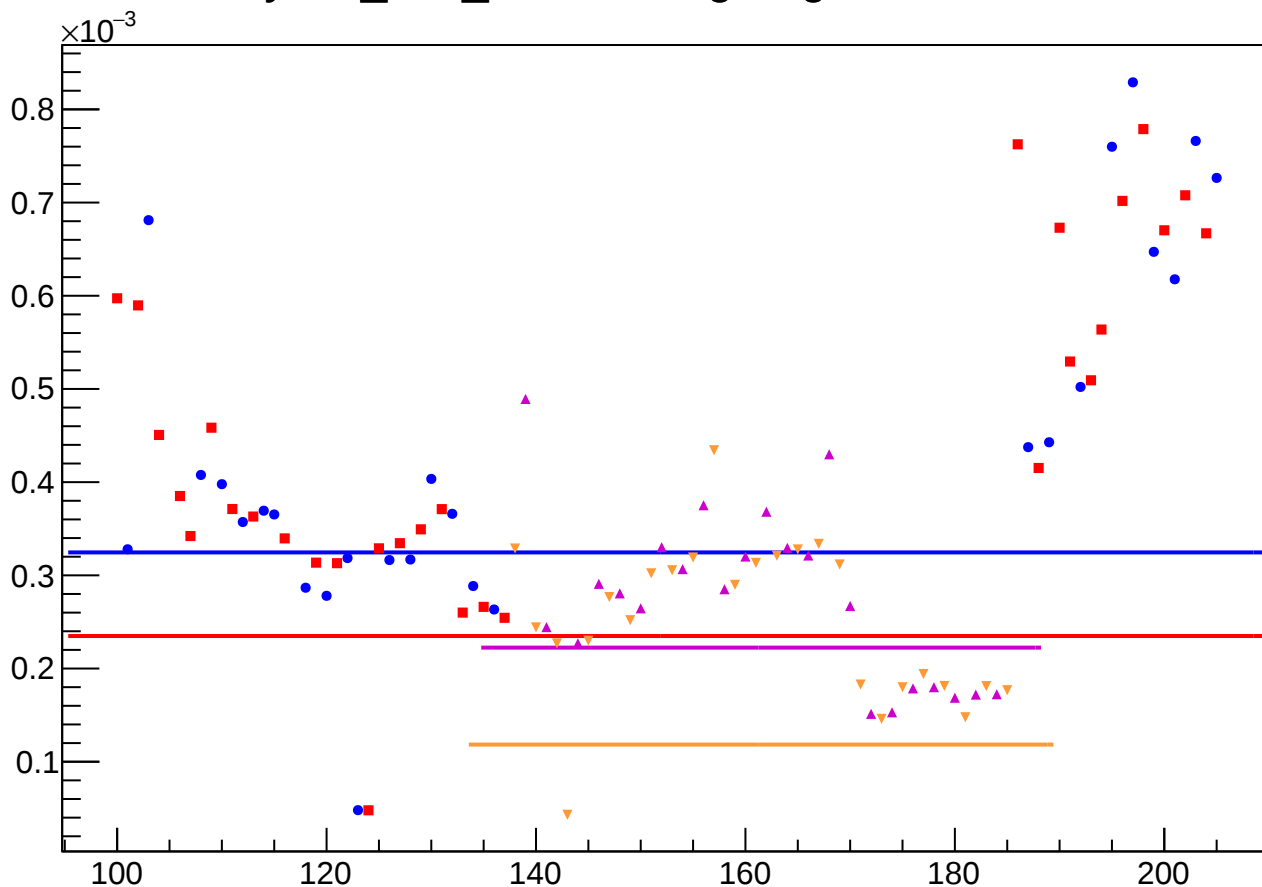
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 154425265290.2

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5937157.1/25

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11182008.6/29

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

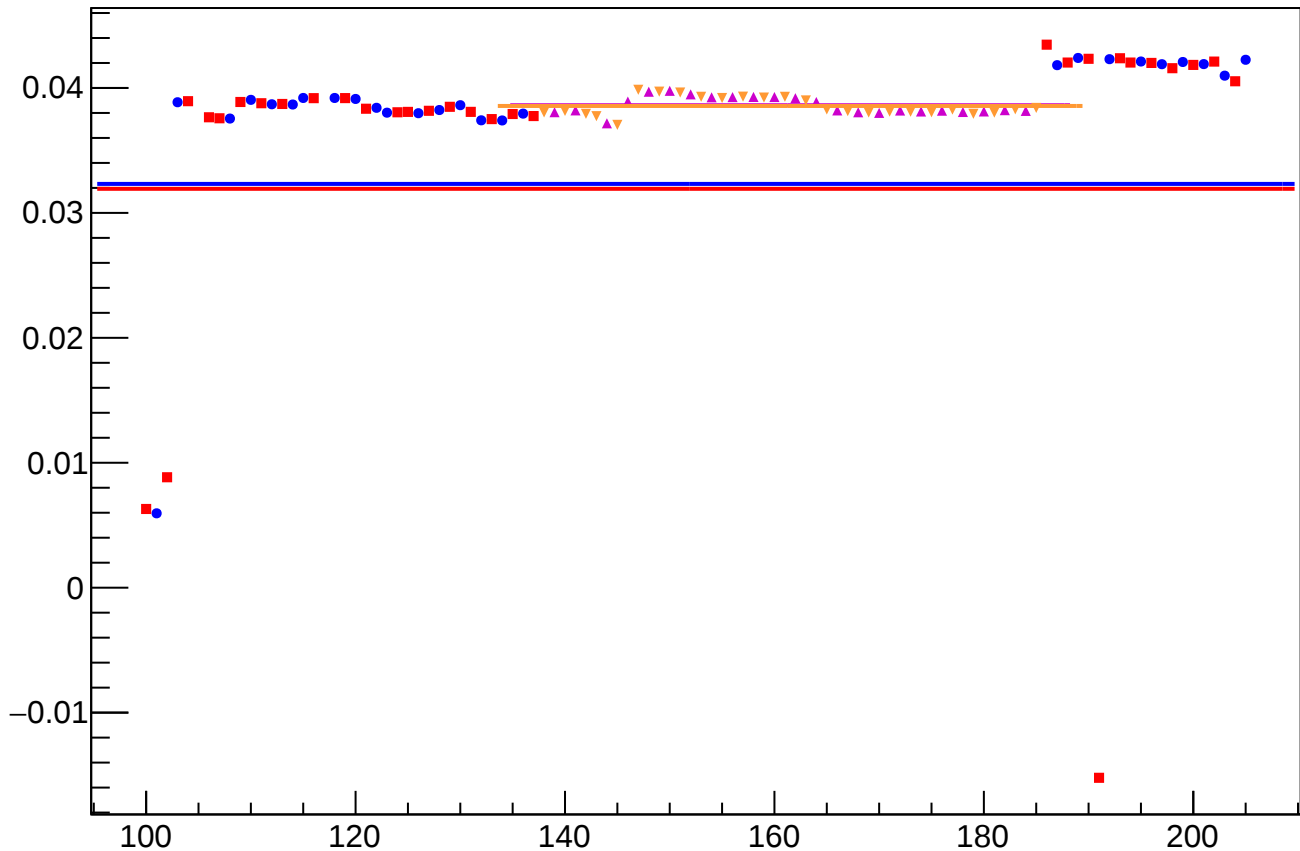
Right: 0.000+/-0.000 χ^2/NDF : 17967239.2/55

In: 0.000+/-0.000 χ^2/NDF :10603685.6/48

Out: 0.000+/-0.000 χ^2/NDF :27853739.0/54

All: 0.000+/-0.000 χ^2/NDF : 44633771.0/103

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 111567903890.7/25

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.032+/-0.000

χ^2/NDF : 288411014131.3/55

Right Out: 0.032+/-0.000

χ^2/NDF : 176796450693.9/29

In: 0.036+/-0.000

χ^2/NDF : 126931764920.5/48

Out: 0.036+/-0.000

χ^2/NDF : 194628588750.9/54

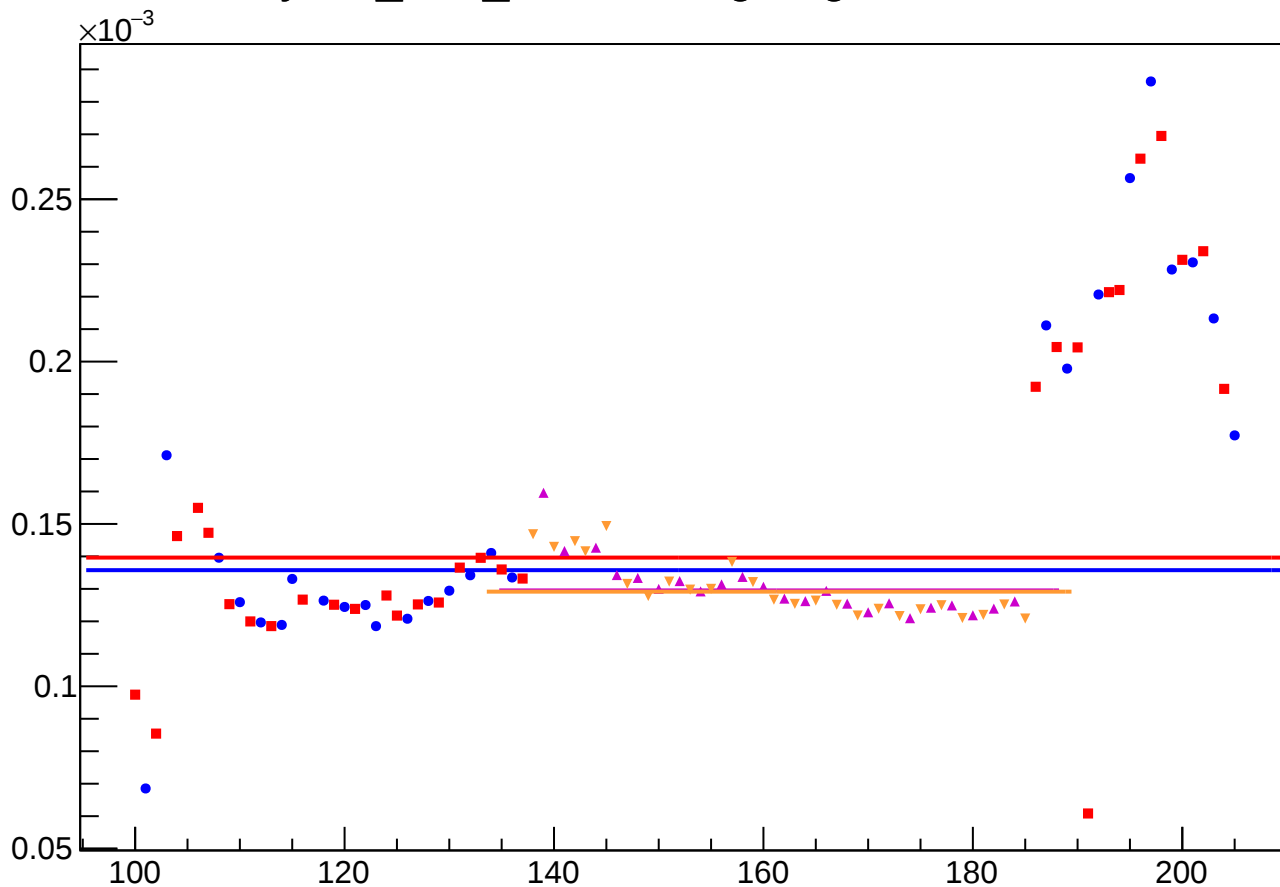
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.036+/-0.000

χ^2/NDF : 321578773420.2

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3176252.1/25

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3028985.3/29

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

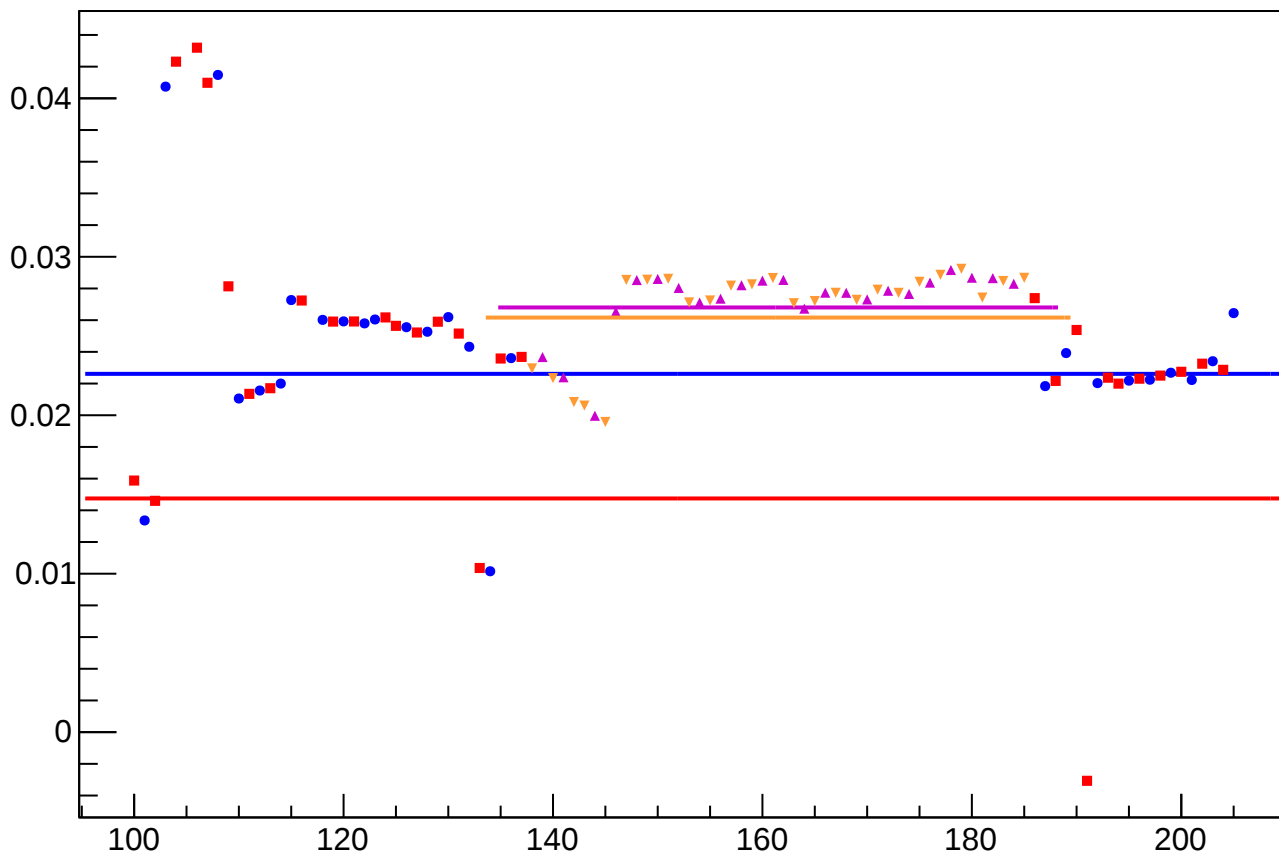
Right: 0.000+/-0.000 χ^2/NDF : 6214346.2/55

In: 0.000+/-0.000 χ^2/NDF :3320227.1/48

Out: 0.000+/-0.000 χ^2/NDF :3245851.8/54

All: 0.000+/-0.000 χ^2/NDF : 6568225.9/103

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4268854720.8/25

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.015+/-0.000 χ^2/NDF : 31063095227.3/29

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

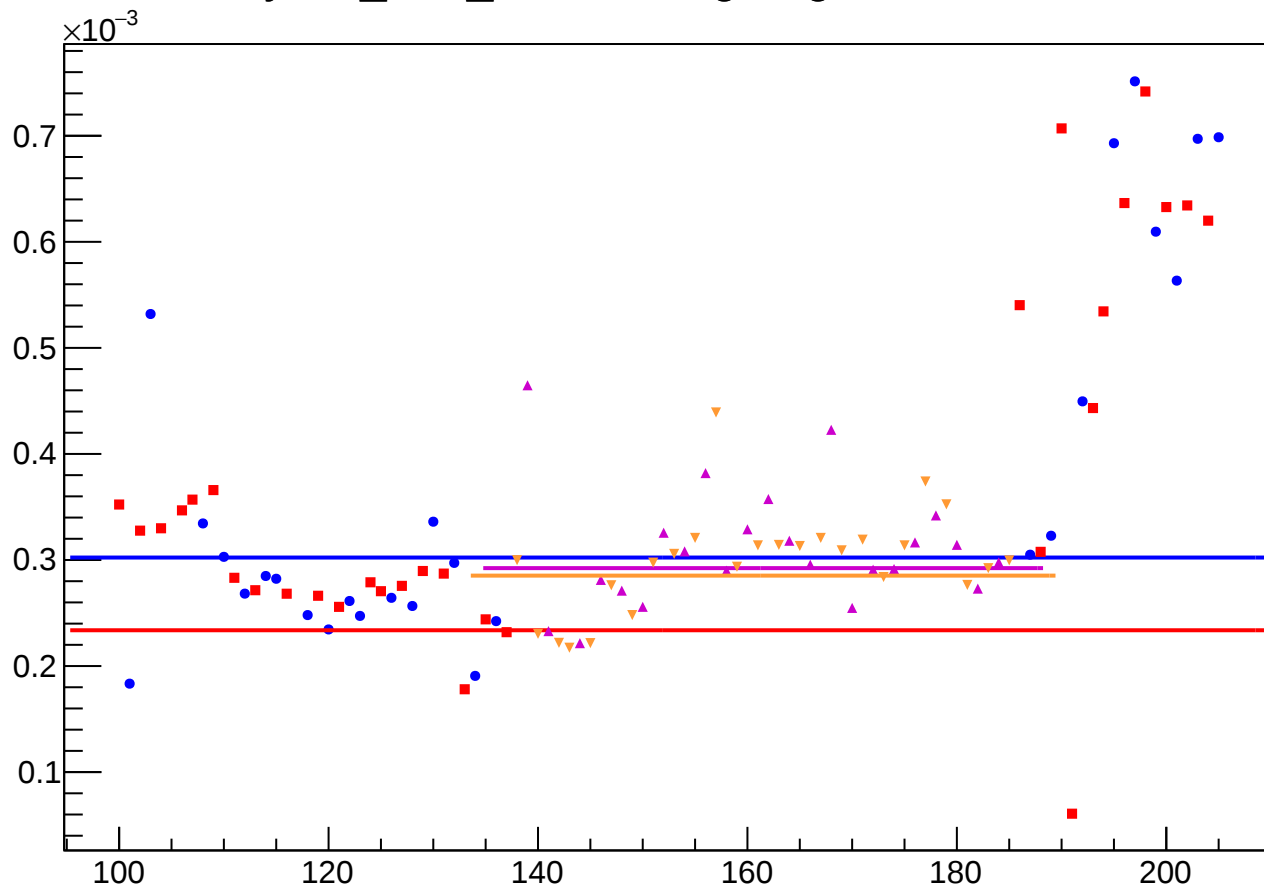
Right: 0.018+/-0.000 χ^2/NDF : 39388026627.7/55

In: 0.025+/-0.000 χ^2/NDF : 6808276034.5/48

Out: 0.021+/-0.000 χ^2/NDF : 44877327404.7/54

All: 0.023+/-0.000 χ^2/NDF : 54547001211.1/13

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3948377.6/25

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 8158220.4/29

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

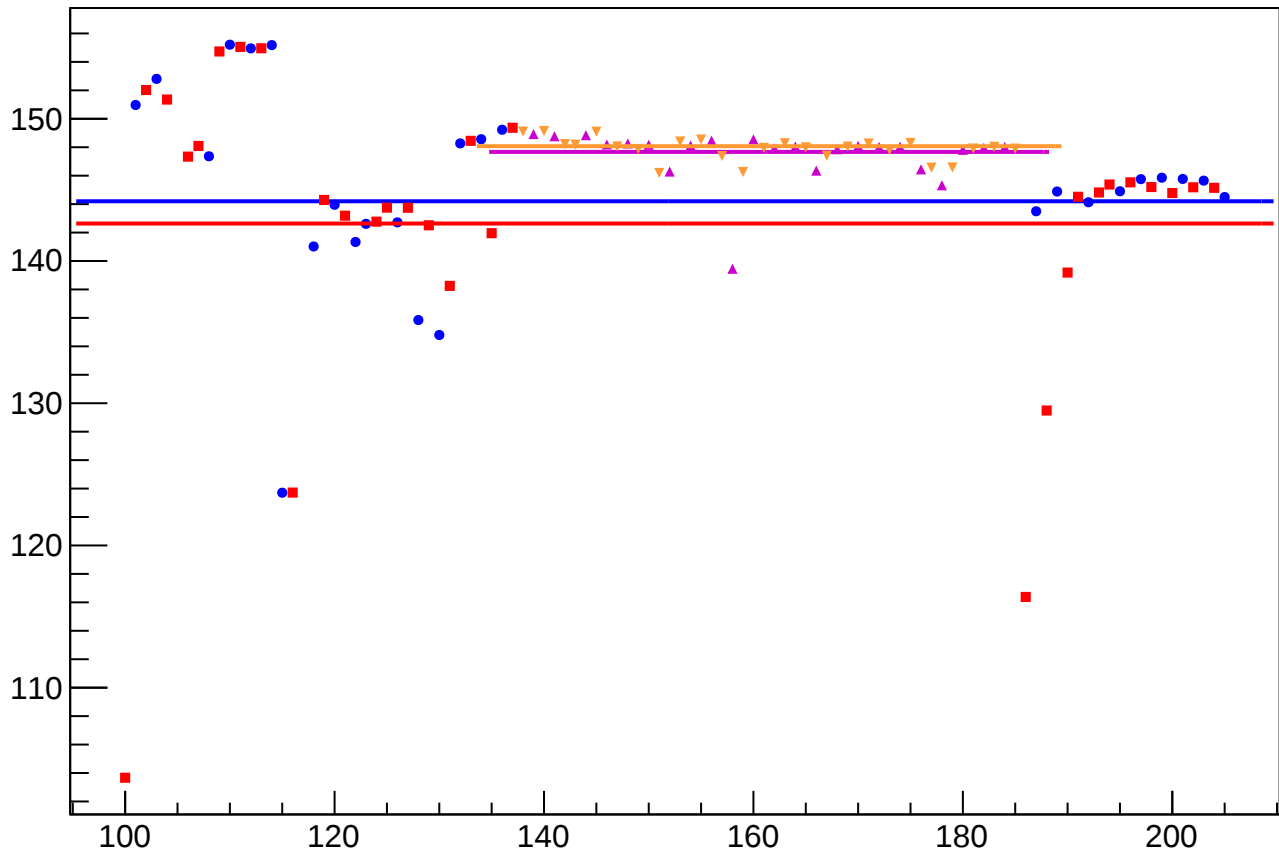
Right: 0.000+/-0.000 χ^2/NDF : 12723362.7/55

In: 0.000+/-0.000 χ^2/NDF :4860842.2/48

Out: 0.000+/-0.000 χ^2/NDF :9450628.3/54

All: 0.000+/-0.000 χ^2/NDF : 14685037.8/103

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.201 $\pm$ 0.000 χ^2 /NDF: 3485512770.6/25

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.635 $\pm$ 0.000 χ^2 /NDF: 7392386246.4/29

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

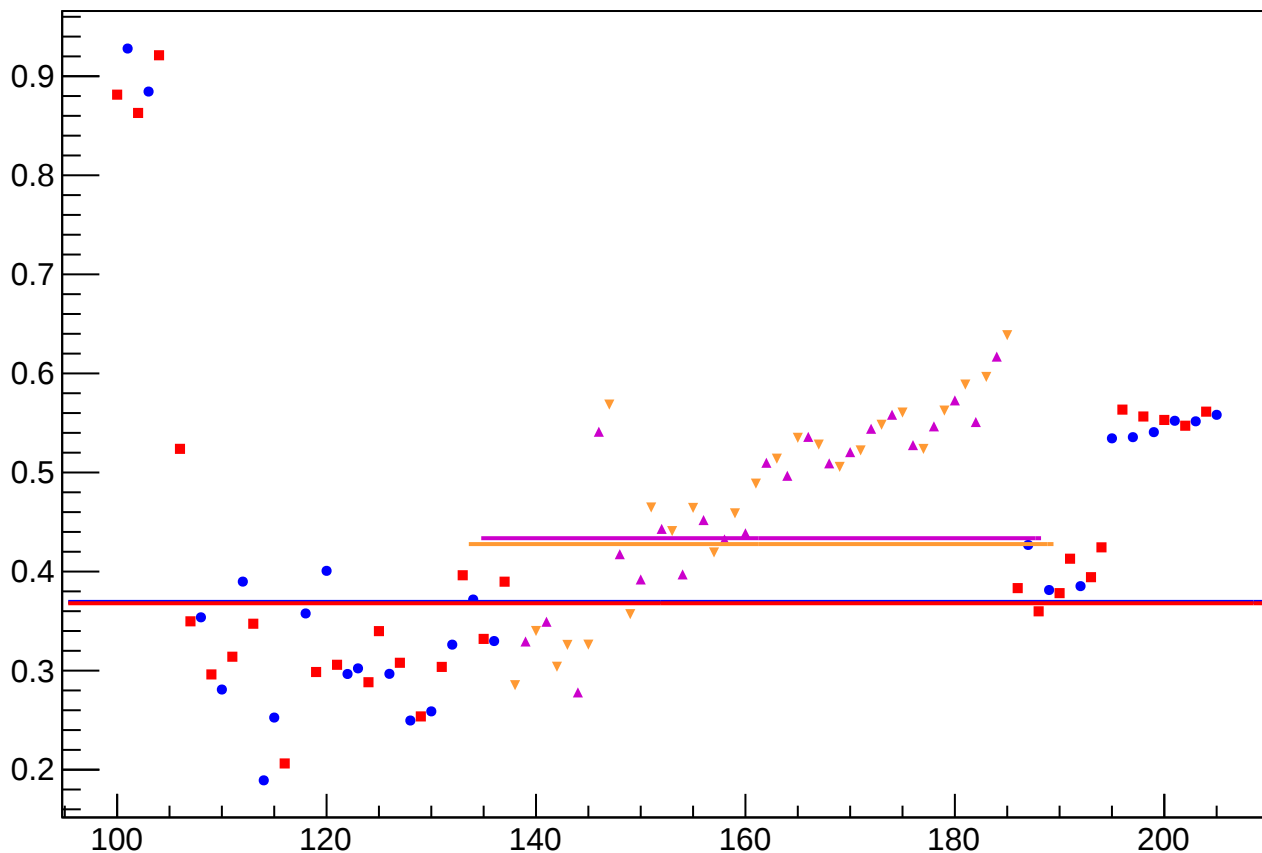
Right: 143.373 $\pm$ 0.000 χ^2 /NDF: 10981766144.0/55

In: 146.001 $\pm$ 0.000 χ^2 /NDF: 4331481437.8/48

Out: 145.396 $\pm$ 0.000 χ^2 /NDF: 8808878001.3/54

All: 145.684 $\pm$ 0.000 χ^2 /NDF: 13172332132.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.369 $\pm$ 0.000 χ^2 /NDF: 2538372.0/25

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.368 $\pm$ 0.000 χ^2 /NDF: 2327903.0/29

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1496343.5/22

Left: 0.431 $\pm$ 0.000 χ^2 /NDF: 3396308.8/47

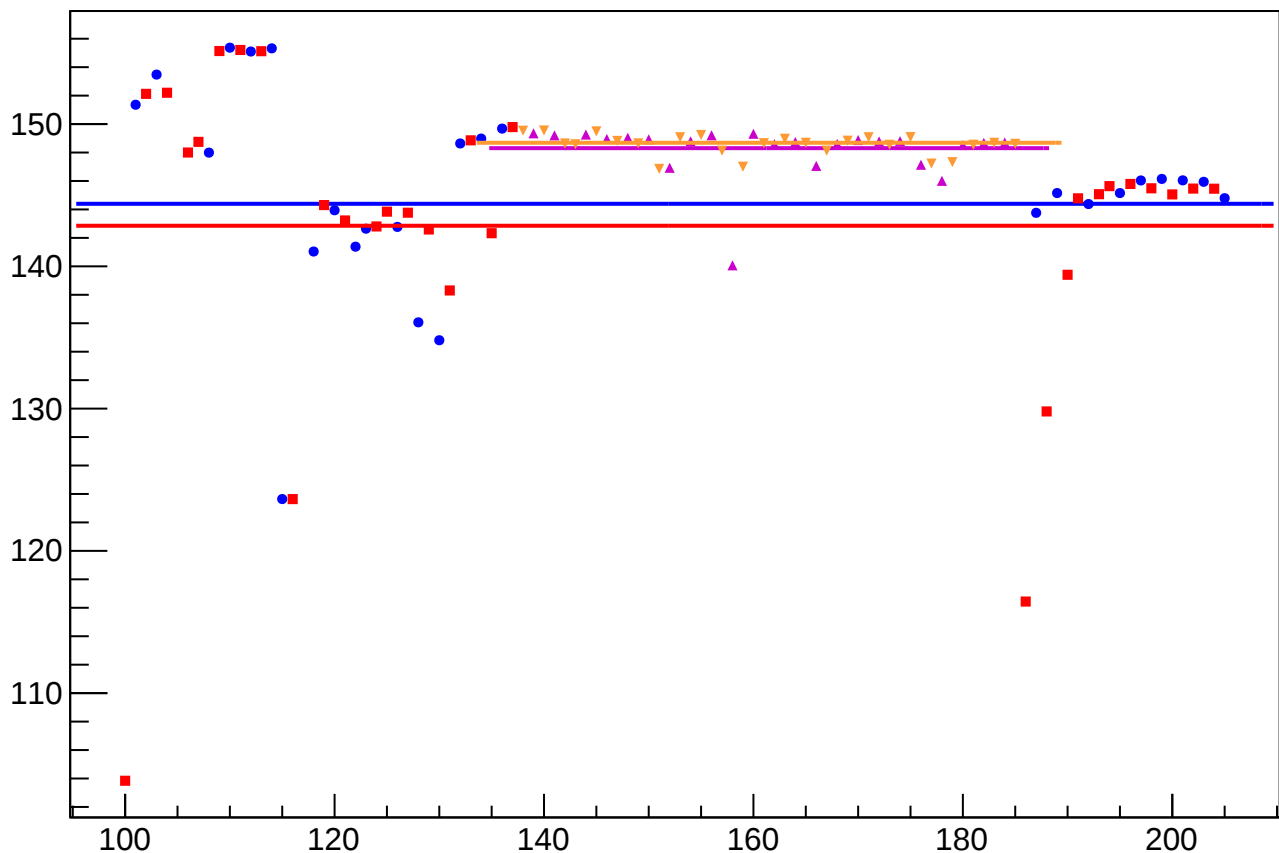
Right: 0.369 $\pm$ 0.000 χ^2 /NDF: 4866436.7/55

In: 0.403 $\pm$ 0.000 χ^2 /NDF:4378595.3/48

Out: 0.398 $\pm$ 0.000 χ^2 /NDF:4550800.0/54

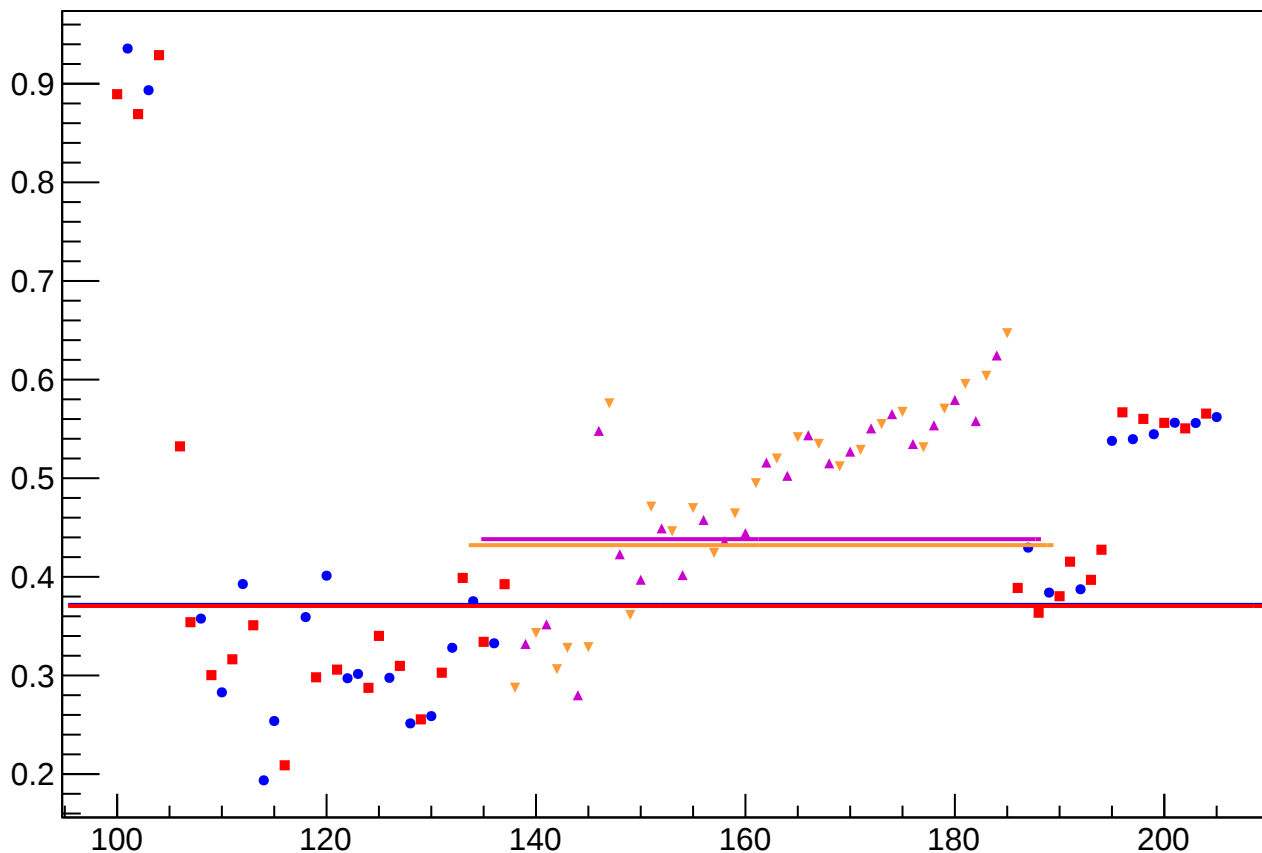
All: 0.400 $\pm$ 0.000 χ^2 /NDF: 8932805.5/103

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.396 $\pm$ 0.000	χ^2 /NDF: 3534179270.1/25	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: 143.581 $\pm$ 0.000	χ^2 /NDF: 10974279414.2/55
Right Out: 142.853 $\pm$ 0.000	χ^2 /NDF: 7340406111.5/29	In: 146.417 $\pm$ 0.000	χ^2 /NDF: 4493424606.5/48
Left In: 148.307 $\pm$ 0.000	χ^2 /NDF: 333585558.2/22	Out: 145.802 $\pm$ 0.000	χ^2 /NDF: 8920446125.1/54
		All: 146.095 $\pm$ 0.000	χ^2 /NDF: 13446188188.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.372 $\pm$ 0.000 χ^2 /NDF: 2545771.4/25

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.370 $\pm$ 0.000 χ^2 /NDF: 2331912.0/29

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

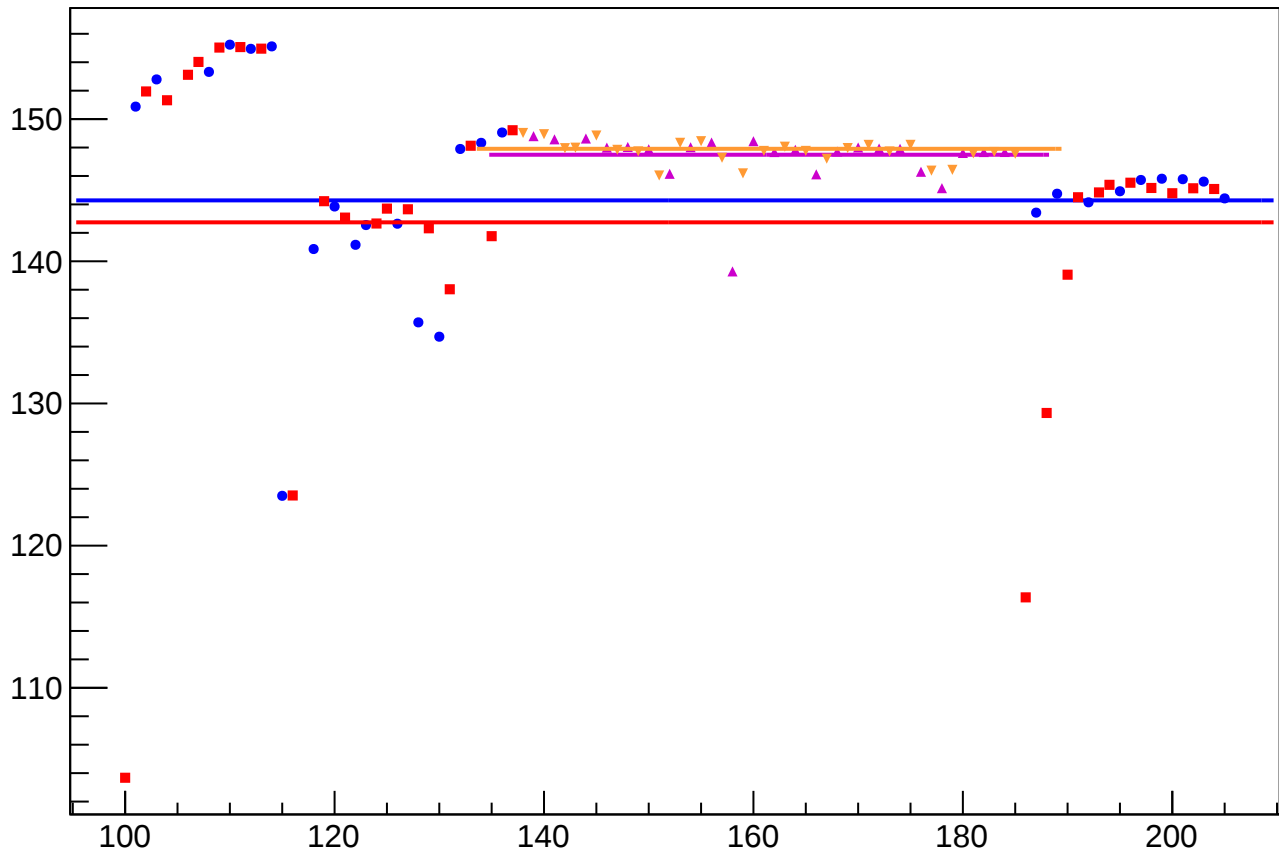
Right: 0.371 $\pm$ 0.000 χ^2 /NDF: 4877788.6/55

In: 0.406 $\pm$ 0.000 χ^2 /NDF:4431025.3/48

Out: 0.402 $\pm$ 0.000 χ^2 /NDF:4602651.5/54

All: 0.404 $\pm$ 0.000 χ^2 /NDF: 9036931.7/103

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.283 ± 0.000 $\chi^2/\text{NDF}: 3692611411.3/25$

Left Out: 147.911 ± 0.000 $\chi^2/\text{NDF}: 64412407.9/24$

Right Out: 142.739 ± 0.000 $\chi^2/\text{NDF}: 7771665368.9/29$

Left In: 147.493 ± 0.000 $\chi^2/\text{NDF}: 343978473.2/22$

Left: 147.709 ± 0.000 $\chi^2/\text{NDF}: 416149781.4/47$

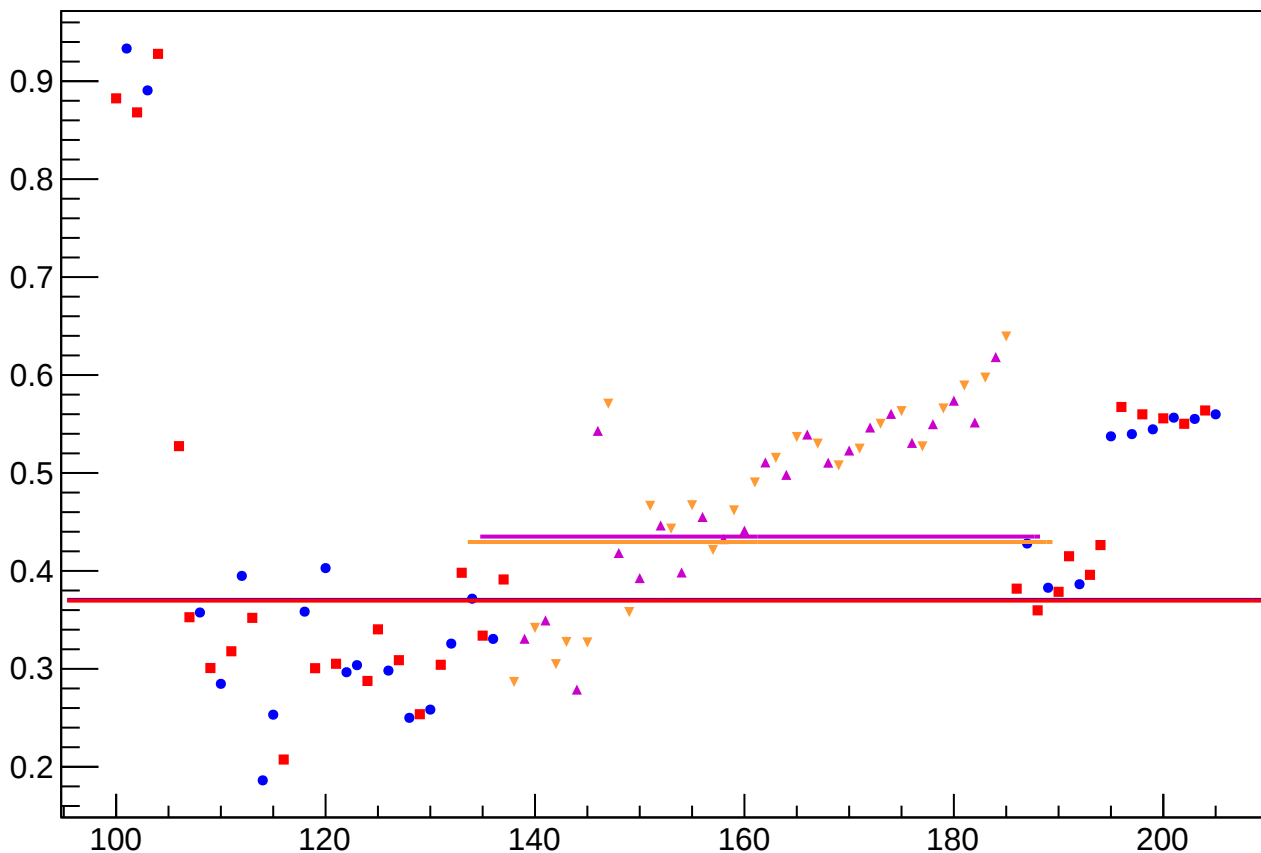
Right: 143.467 ± 0.000 $\chi^2/\text{NDF}: 11564616986.1/55$

In: 145.950 ± 0.000 $\chi^2/\text{NDF}: 4462234986.6/48$

Out: 145.365 ± 0.000 $\chi^2/\text{NDF}: 9047827745.7/54$

All: 145.644 ± 0.000 $\chi^2/\text{NDF}: 13539597618.0/106$

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.370 $\pm$ 0.000 χ^2 /NDF: 2568850.6/25

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.370 $\pm$ 0.000 χ^2 /NDF: 2332052.7/29

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

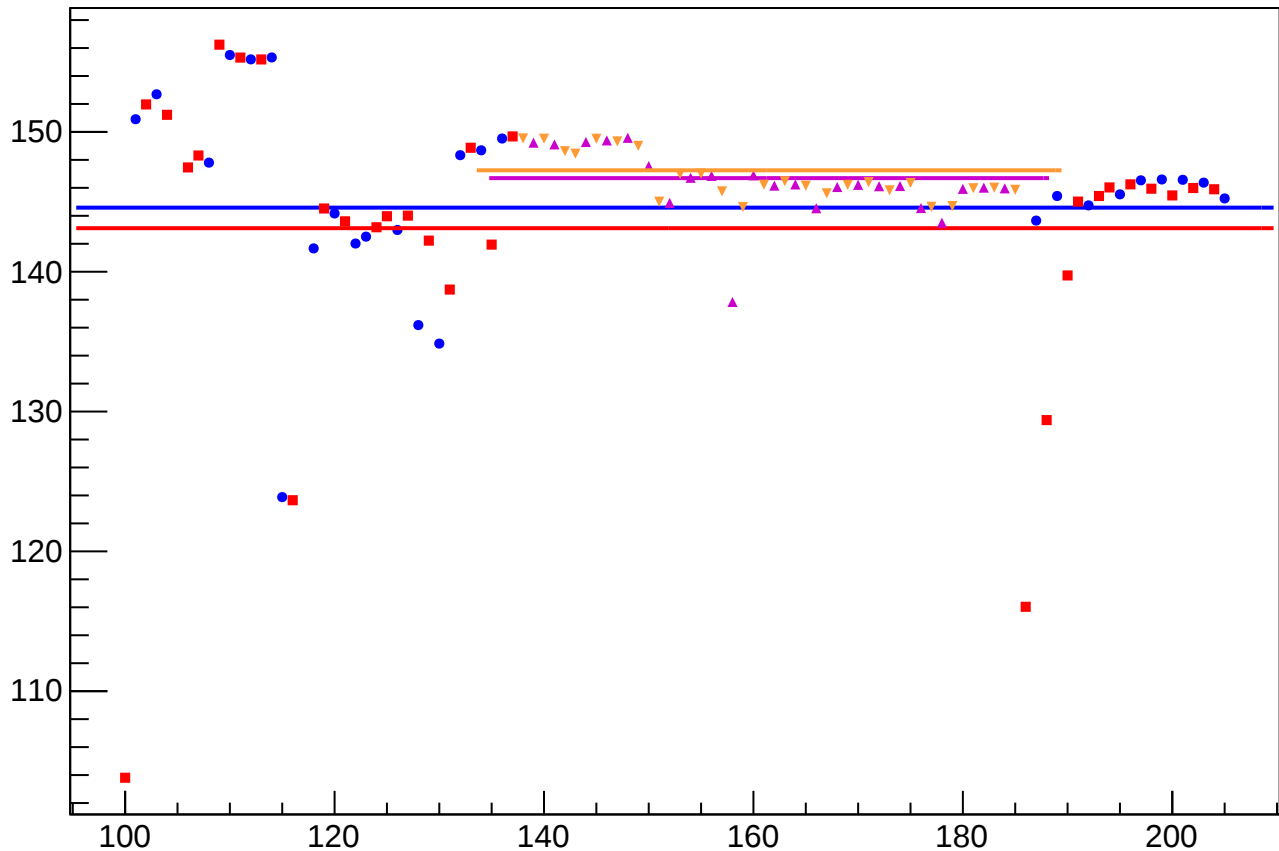
Right: 0.370 $\pm$ 0.000 χ^2 /NDF: 4900949.1/55

In: 0.404 $\pm$ 0.000 χ^2 /NDF:4416637.5/48

Out: 0.400 $\pm$ 0.000 χ^2 /NDF:4552028.8/54

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 8971301.6/103

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.585 +/- 0.000 χ^2/NDF : 3216551846.1/25

Left Out: 147.255 +/- 0.000 χ^2/NDF : 262138049.8/24

Right Out: 143.116 +/- 0.000 χ^2/NDF : 7104873543.8/29

Left In: 146.695 +/- 0.000 χ^2/NDF : 557896803.1/22

Left: 146.984 +/- 0.000 χ^2/NDF : 833217060.4/47

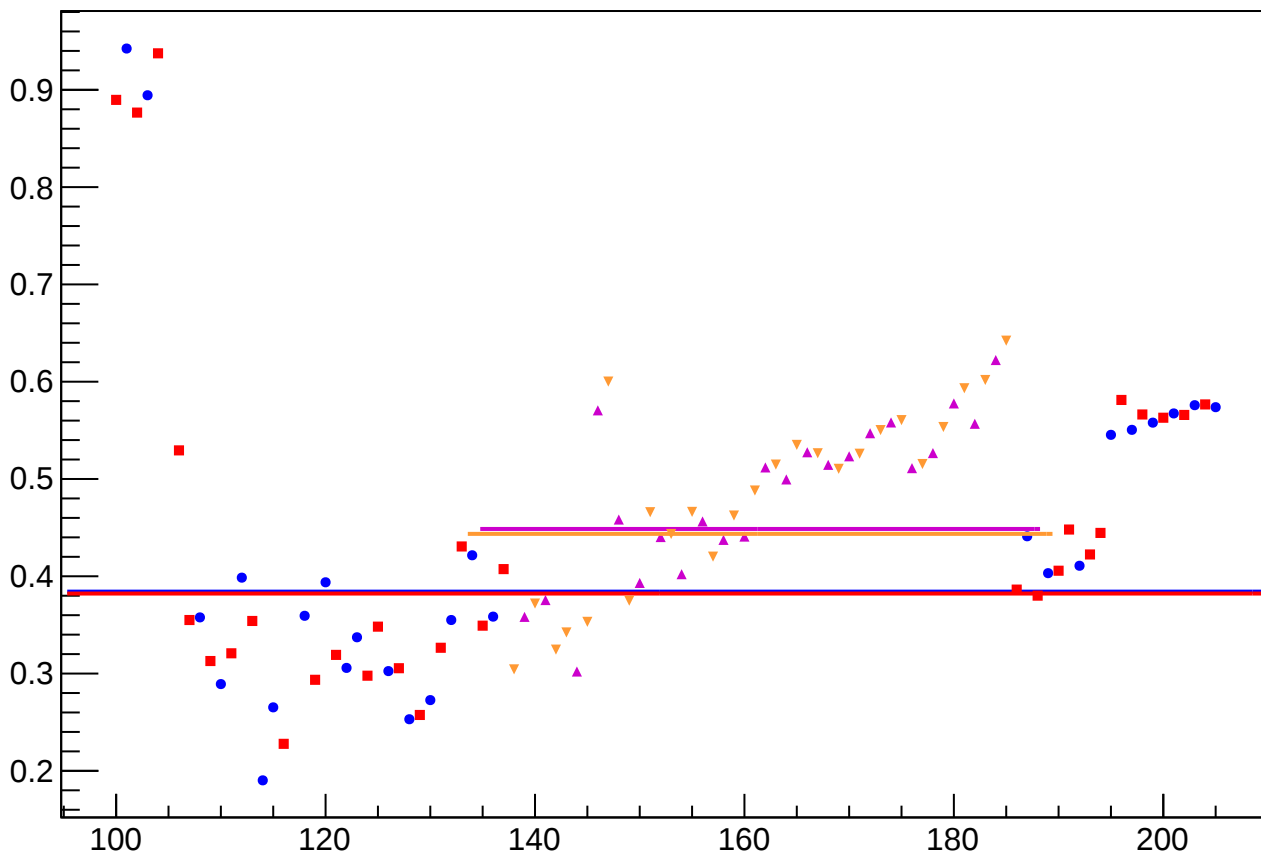
Right: 143.807 +/- 0.000 χ^2/NDF : 10405990530.1/55

In: 145.693 +/- 0.000 χ^2/NDF : 3947136007.0/48

Out: 145.232 +/- 0.000 χ^2/NDF : 8096350463.8/54

All: 145.452 +/- 0.000 χ^2/NDF : 12060757974.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.384 $\pm$ 0.000 χ^2 /NDF: 2506695.9/25

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.382 $\pm$ 0.000 χ^2 /NDF: 2275352.7/29

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

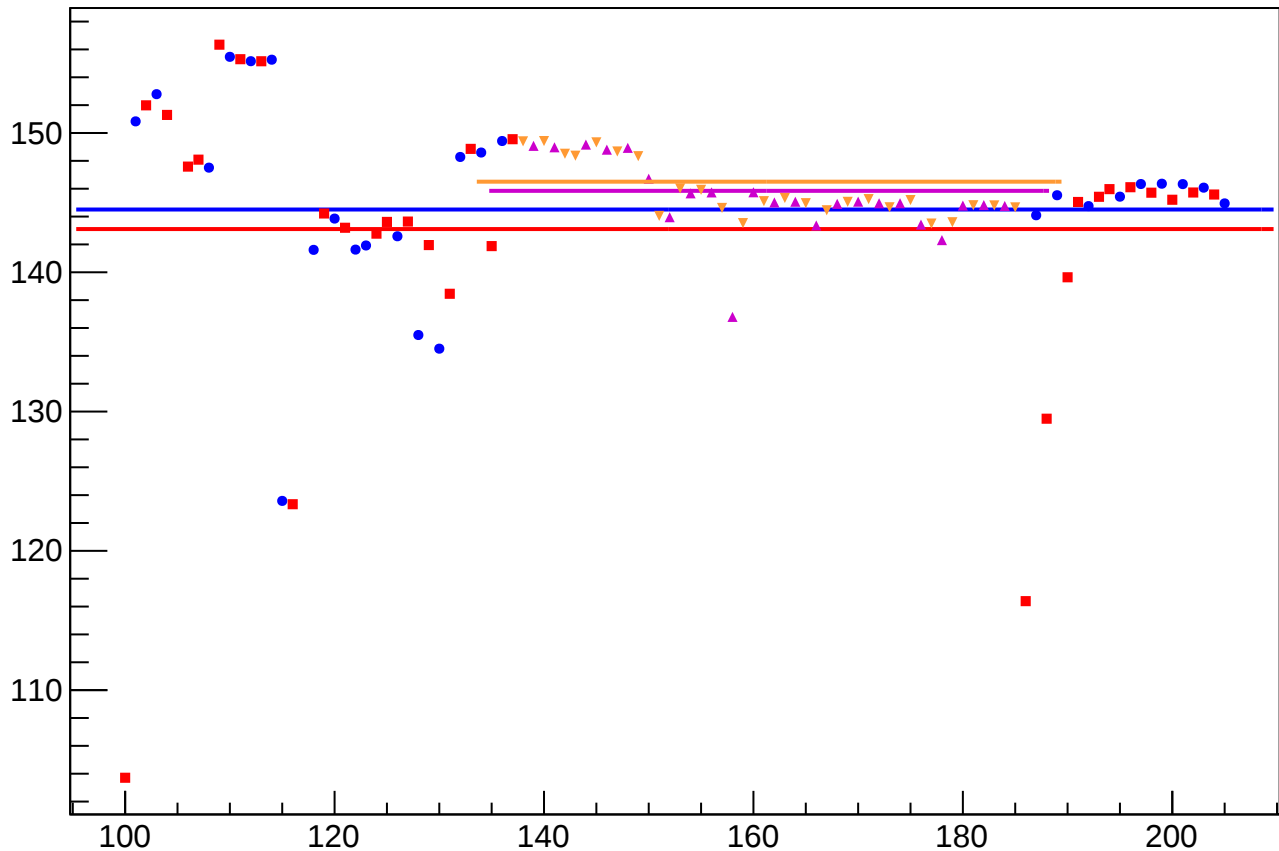
Right: 0.383 $\pm$ 0.000 χ^2 /NDF: 4782352.8/55

In: 0.418 $\pm$ 0.000 χ^2 /NDF:3961255.9/48

Out: 0.414 $\pm$ 0.000 χ^2 /NDF:4079165.4/54

All: 0.416 $\pm$ 0.000 χ^2 /NDF: 8043596.8/103

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.506 $\pm$ 0.000 χ^2 /NDF: 3327942582.0/25

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.103 $\pm$ 0.000 χ^2 /NDF: 7062574685.5/29

Left In: 145.847 $\pm$ 0.000 χ^2 /NDF: 694764545.6/22

Left: 146.187 $\pm$ 0.000 χ^2 /NDF: 1114638549.0/47

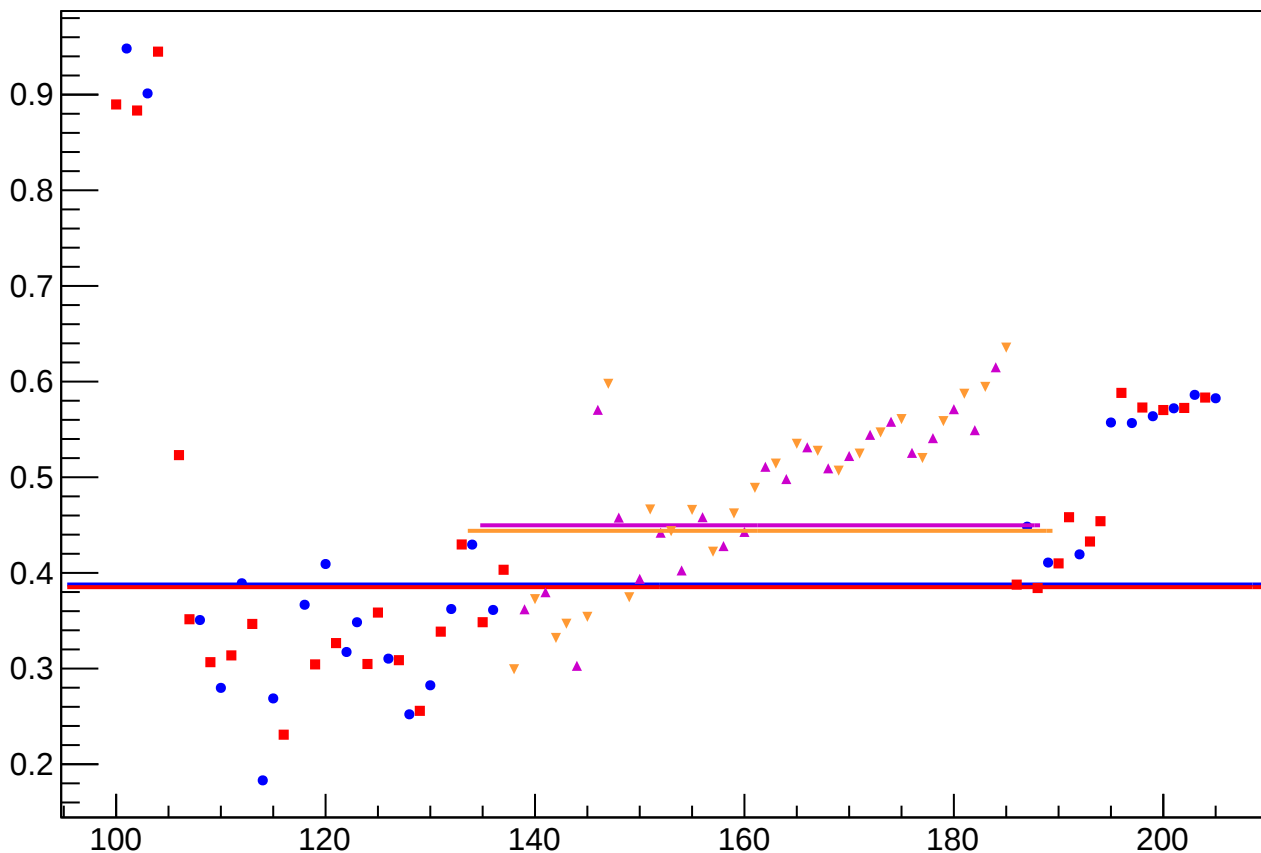
Right: 143.761 $\pm$ 0.000 χ^2 /NDF: 10466012423.5/55

In: 145.216 $\pm$ 0.000 χ^2 /NDF: 4091356336.1/48

Out: 144.856 $\pm$ 0.000 χ^2 /NDF: 7951770795.8/54

All: 145.027 $\pm$ 0.000 χ^2 /NDF: 12053530974.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.388 $\pm$ 0.000 χ^2 /NDF: 2552499.1/25

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.385 $\pm$ 0.000 χ^2 /NDF: 2299488.5/29

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1105405.0/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2571486.5/47

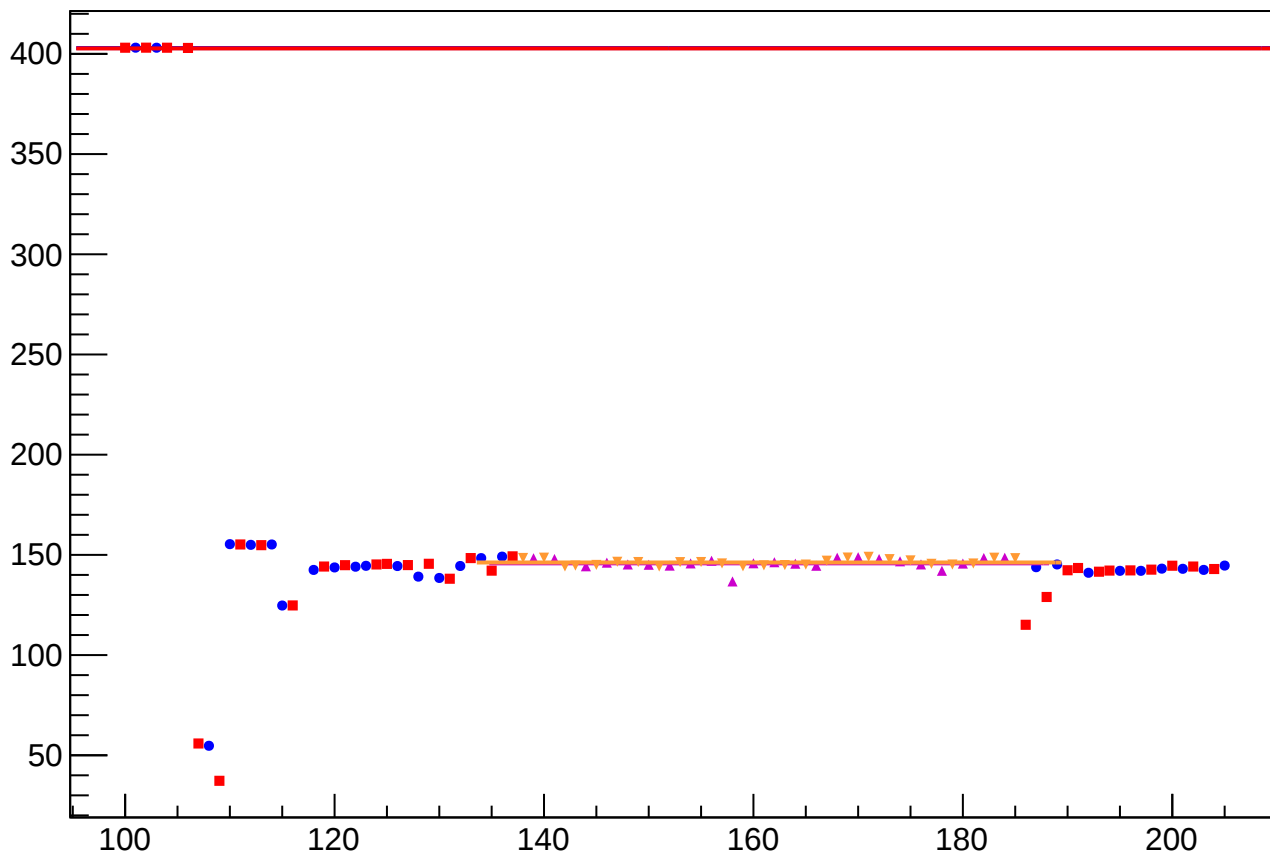
Right: 0.386 $\pm$ 0.000 χ^2 /NDF: 4852575.1/55

In: 0.421 $\pm$ 0.000 χ^2 /NDF:3950756.7/48

Out: 0.415 $\pm$ 0.000 χ^2 /NDF:4055147.5/54

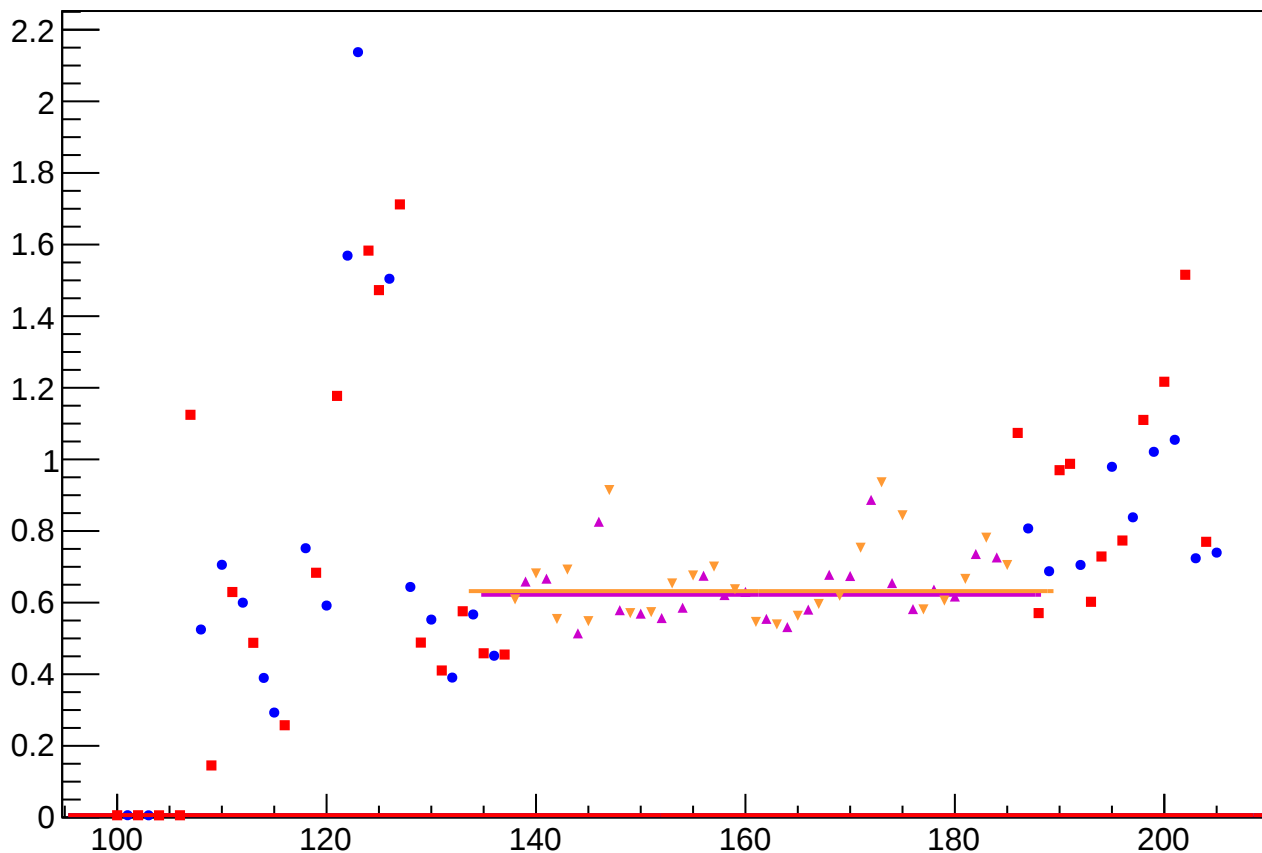
All: 0.418 $\pm$ 0.000 χ^2 /NDF: 8010216.8/103

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.895+/-0.000	χ^2/NDF : 1602598668020.5/25	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.806+/-0.000	χ^2/NDF : 5363764908461.7
Right Out: 402.728+/-0.000	χ^2/NDF : 3760706892873.7/29	In: 402.602+/-0.000	χ^2/NDF : 3951485658118.3/48
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.467+/-0.000	χ^2/NDF : 6128786229819.2/5
		All: 402.530+/-0.000	χ^2/NDF : 100805745322

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 18930653.6/25

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 20755355.3/29

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:404479.0/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1022337.9/47

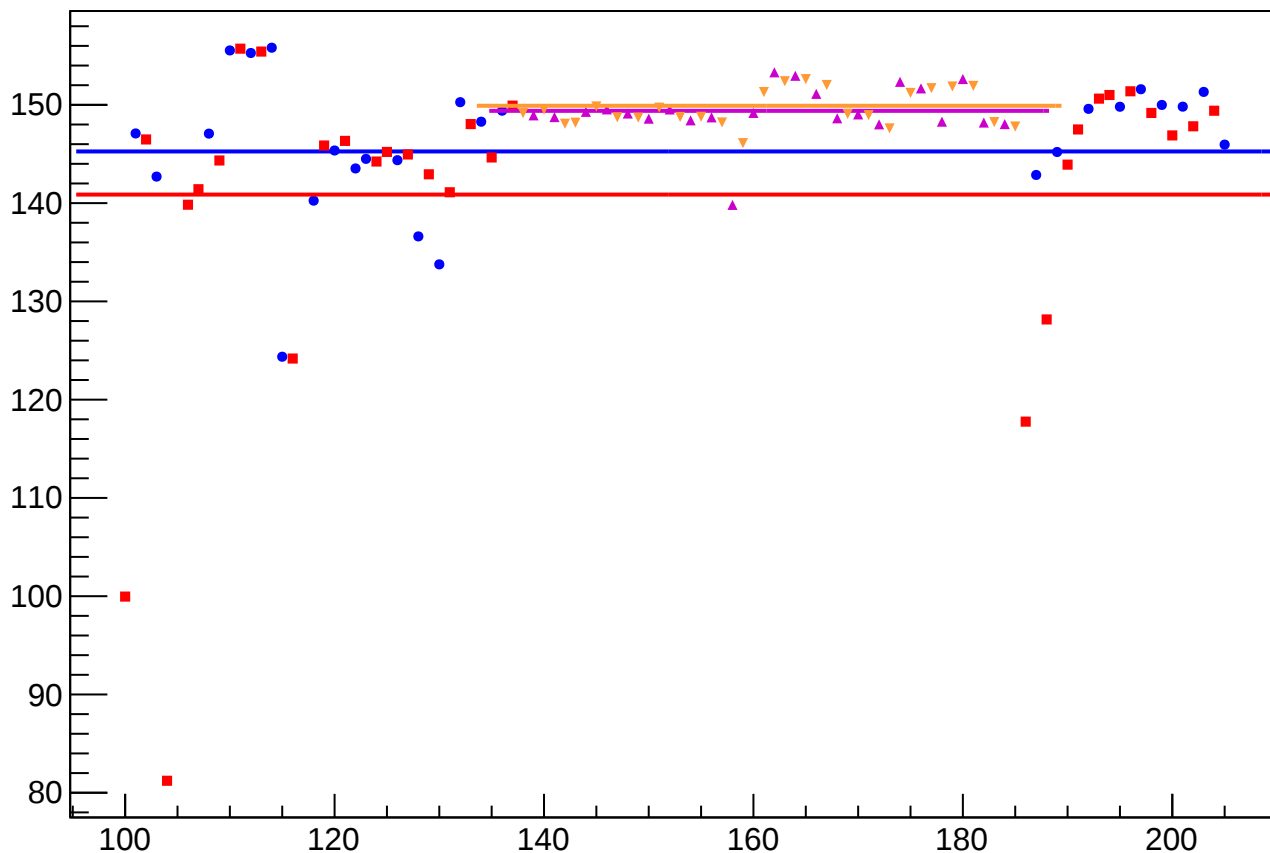
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 39686009.1/55

In: 0.007 $\pm$ 0.000 χ^2 /NDF:46244433.6/48

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:49535678.5/54

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 95780254.8/103

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.259 $\pm$ 0.000

χ^2 /NDF: 1300461954.6/25

Left: 149.657 $\pm$ 0.000

χ^2 /NDF: 606930259.3/47

Left Out: 149.906 $\pm$ 0.000

χ^2 /NDF: 163261802.4/24

Right: 142.827 $\pm$ 0.000

χ^2 /NDF: 4659448242.2/55

Right Out: 140.870 $\pm$ 0.000

χ^2 /NDF: 3145293208.3/29

In: 148.167 $\pm$ 0.000

χ^2 /NDF: 1978141571.6/48

Out: 146.940 $\pm$ 0.000

χ^2 /NDF: 4673220764.1/54

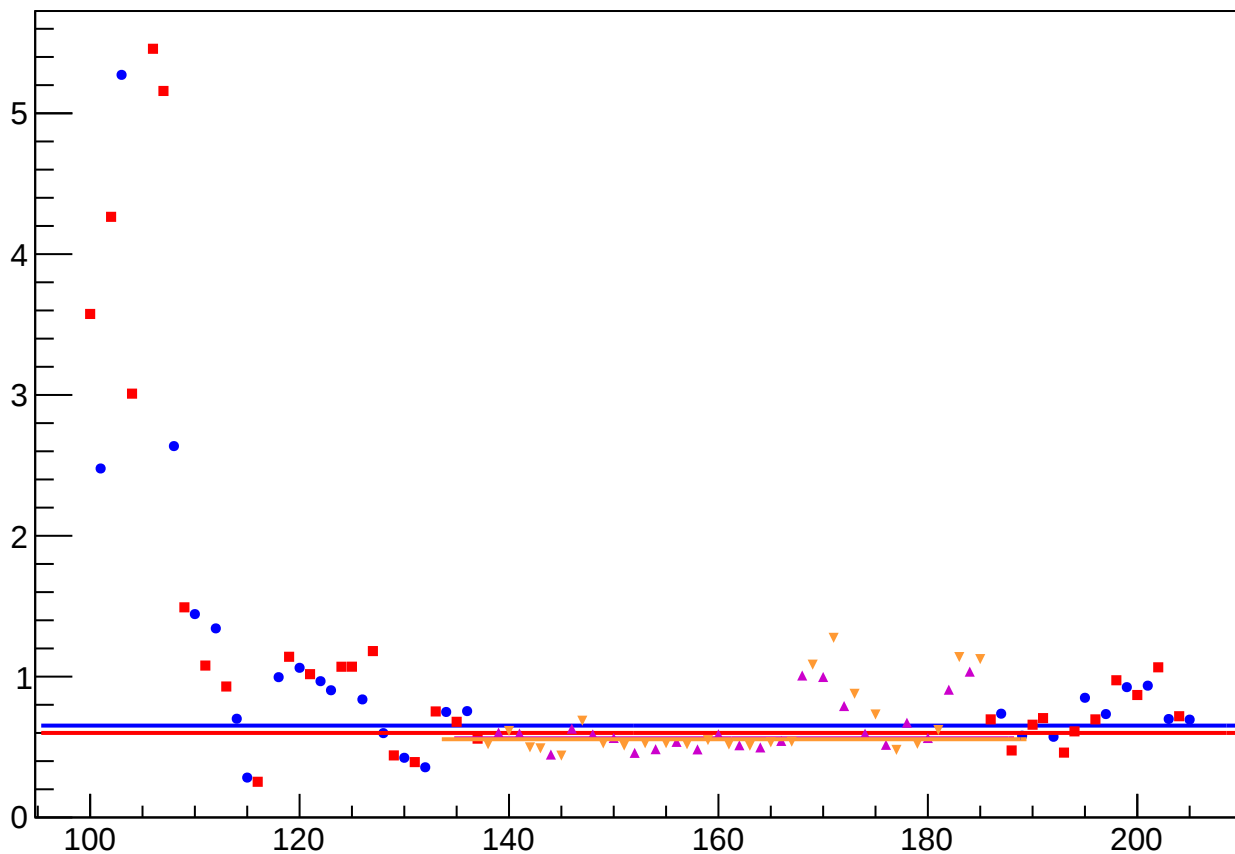
Left In: 149.391 $\pm$ 0.000

χ^2 /NDF: 437129920.4/22

All: 147.519 $\pm$ 0.000

χ^2 /NDF: 6705171669.5

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.652 $\pm$ 0.000 χ^2 /NDF: 3946528.8/25

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.600 $\pm$ 0.000 χ^2 /NDF: 5485819.8/29

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1311075.2/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3086646.6/47

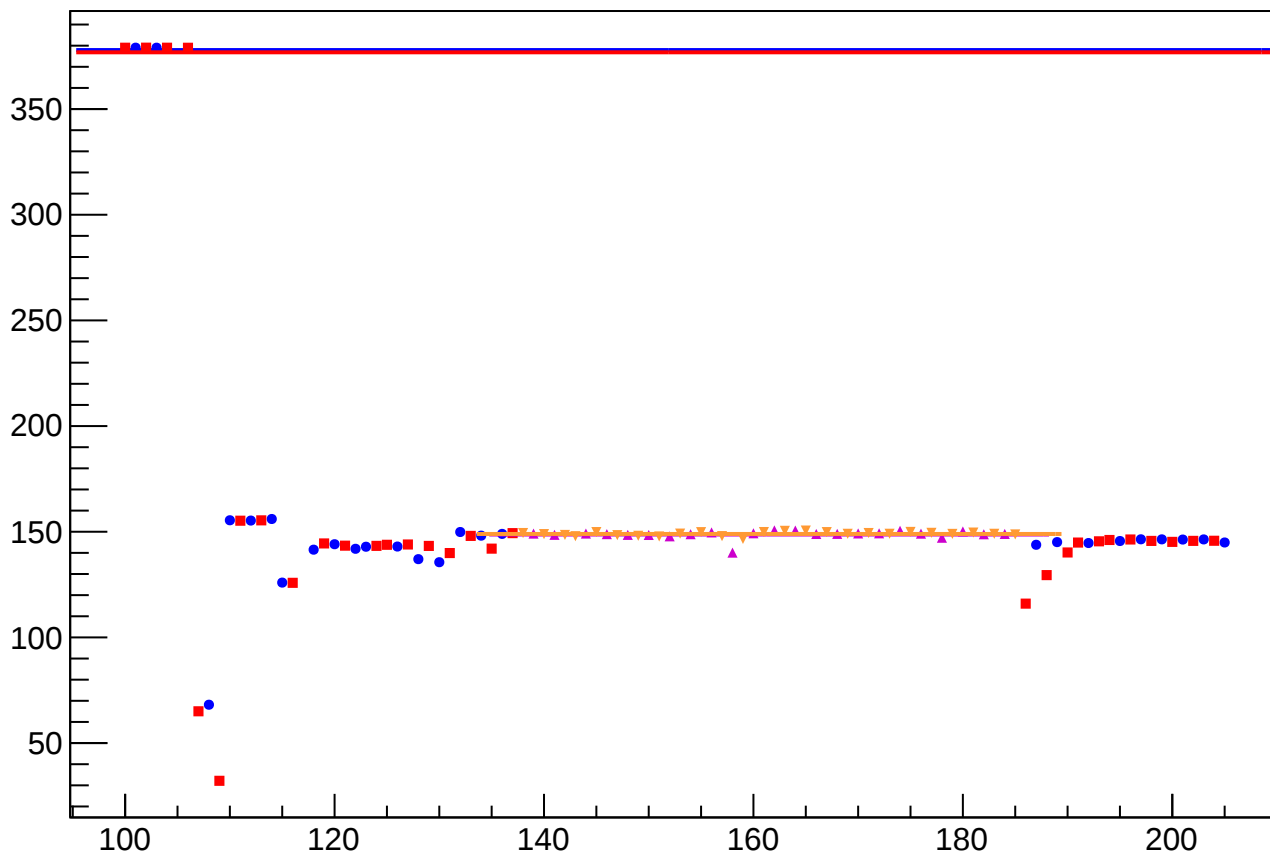
Right: 0.623 $\pm$ 0.000 χ^2 /NDF: 9492528.1/55

In: 0.589 $\pm$ 0.000 χ^2 /NDF:5486710.0/48

Out: 0.570 $\pm$ 0.000 χ^2 /NDF:7326145.6/54

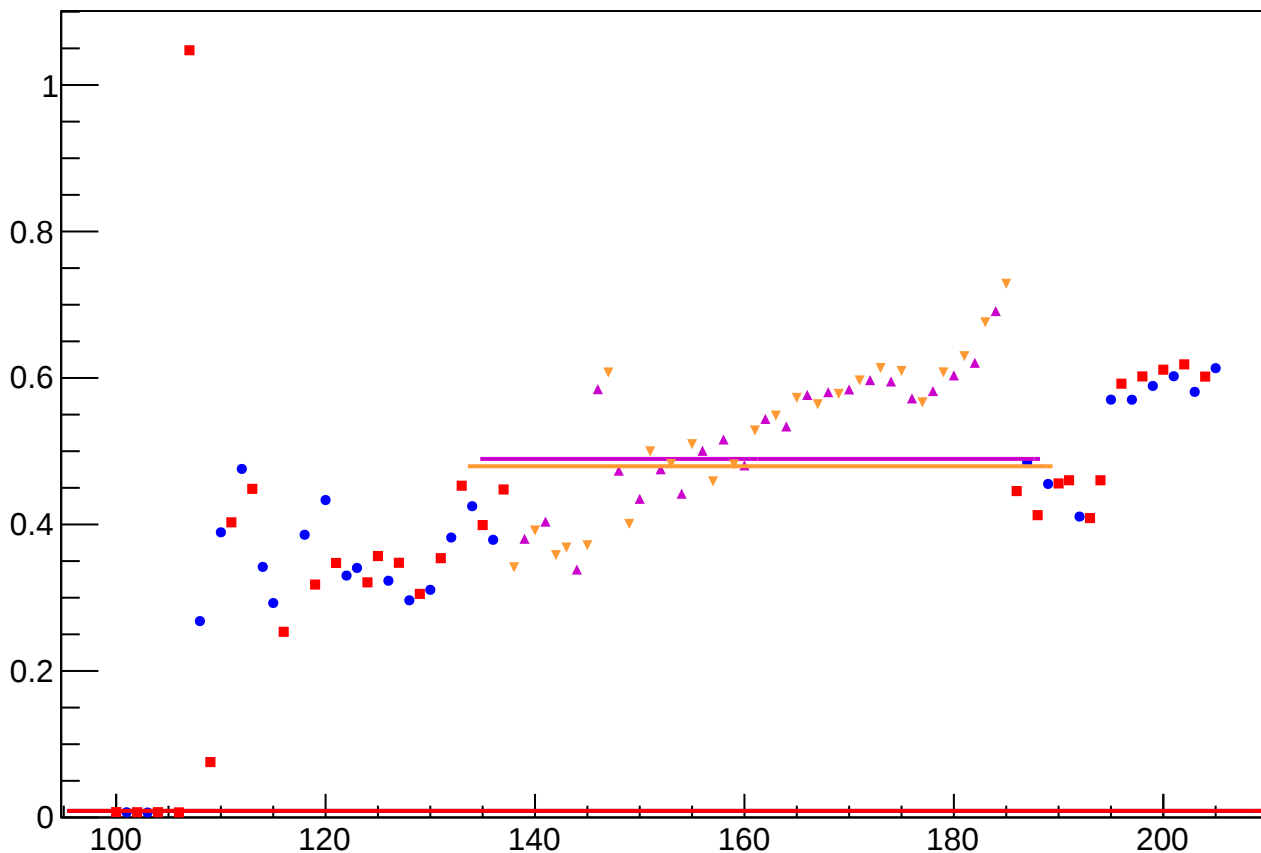
All: 0.579 $\pm$ 0.000 χ^2 /NDF: 12837793.2/103

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.922+/-0.000	χ^2/NDF : 3625964109470.2/25	Left: 148.820+/-0.000	χ^2/NDF : 320306424.2/47
Left Out: 148.946+/-0.000	χ^2/NDF : 63974844.7/24	Right: 377.357+/-0.000	χ^2/NDF : 13455499208096.1
Right Out: 376.861+/-0.000	χ^2/NDF : 9821537877269.8/29	In: 376.743+/-0.000	χ^2/NDF : 7228790638748.2/48
Left In: 148.683+/-0.000	χ^2/NDF : 253848207.3/22	Out: 375.745+/-0.000	χ^2/NDF : 13691168784659.0
		All: 376.211+/-0.000	χ^2/NDF : 209270835429.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 21436721.8/25

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 22781647.6/29

Left In: 0.490 $\pm$ 0.000 χ^2 /NDF:1090532.3/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2616511.3/47

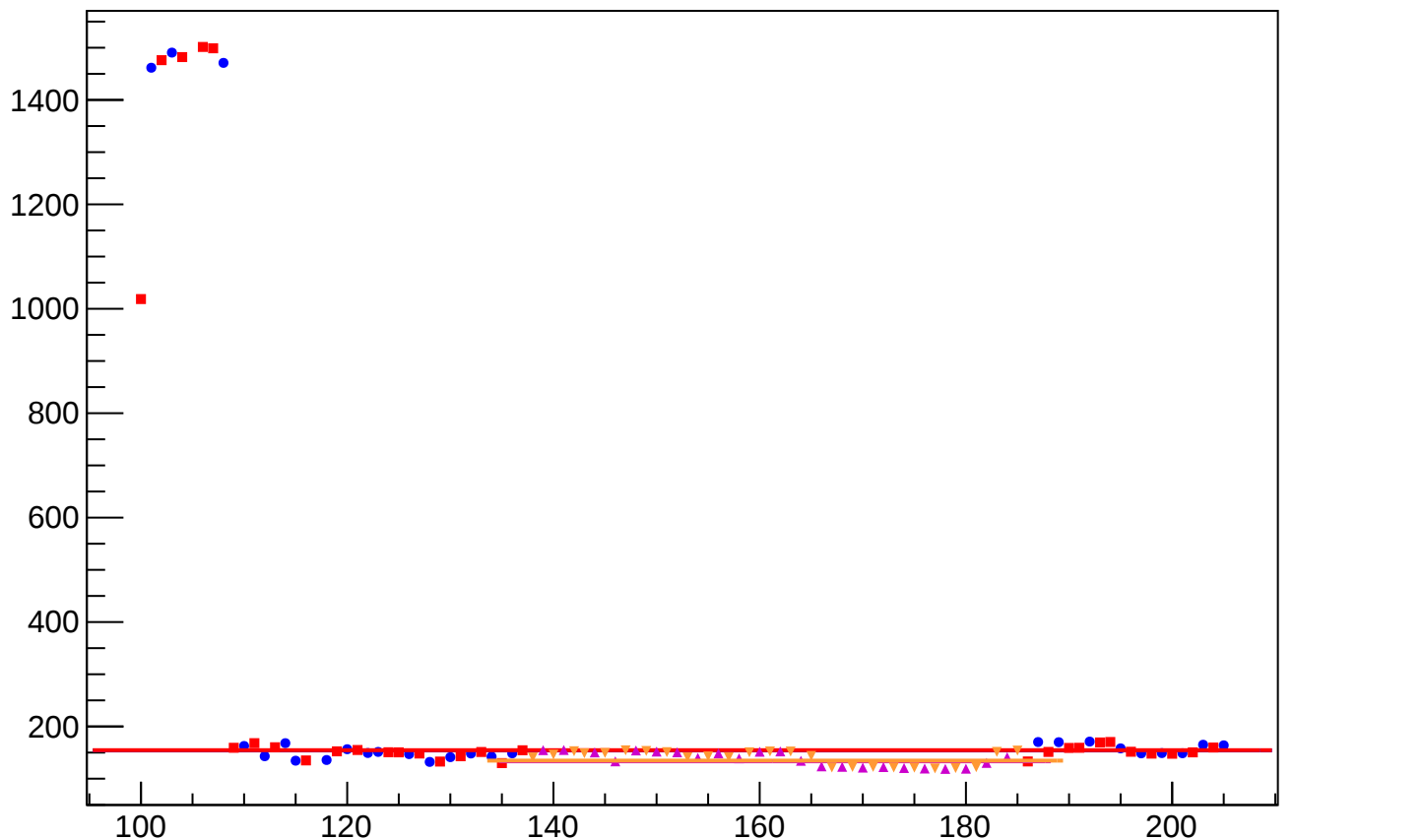
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 44218465.2/55

In: 0.011 $\pm$ 0.000 χ^2 /NDF:54193594.6/48

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:57277715.8/54

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 111471411.2/103

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.127 $\pm$ 0.000 χ^2 /NDF: 25668659010.1/25

Left Out: 134.585 $\pm$ 0.000 χ^2 /NDF: 4387324151.1/24

Right Out: 154.571 $\pm$ 0.000 χ^2 /NDF: 34855808820.8/29

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

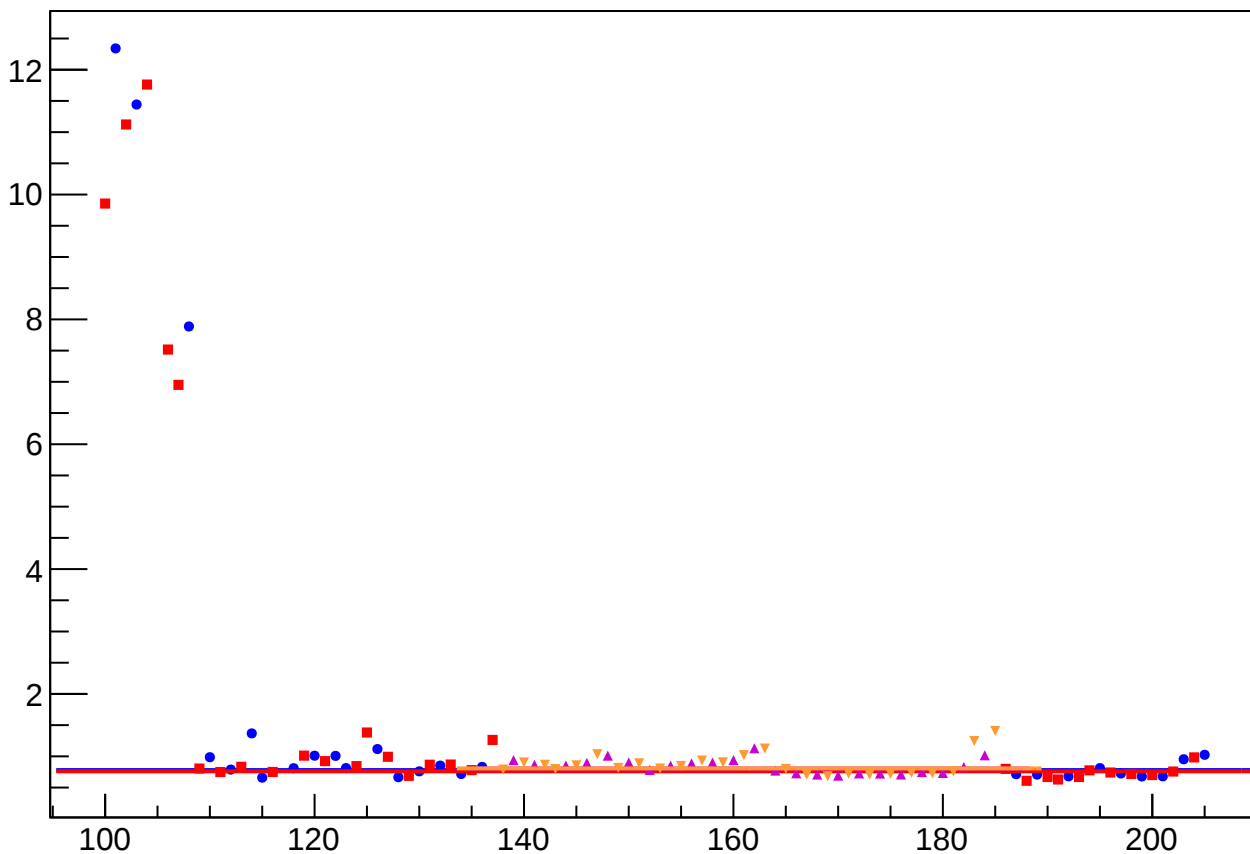
Right: 154.367 $\pm$ 0.000 χ^2 /NDF: 60526063260.6/55

In: 141.533 $\pm$ 0.000 χ^2 /NDF: 33950382145.1/48

Out: 143.093 $\pm$ 0.000 χ^2 /NDF: 43280241522.5/54

All: 142.347 $\pm$ 0.000 χ^2 /NDF: 77278779784.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.780 $\pm$ 0.000 χ^2 /NDF: 2953267.1/25

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.760 $\pm$ 0.000 χ^2 /NDF: 3199691.9/29

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:479689.4/22

Left: 0.806 $\pm$ 0.000 χ^2 /NDF: 1183976.9/47

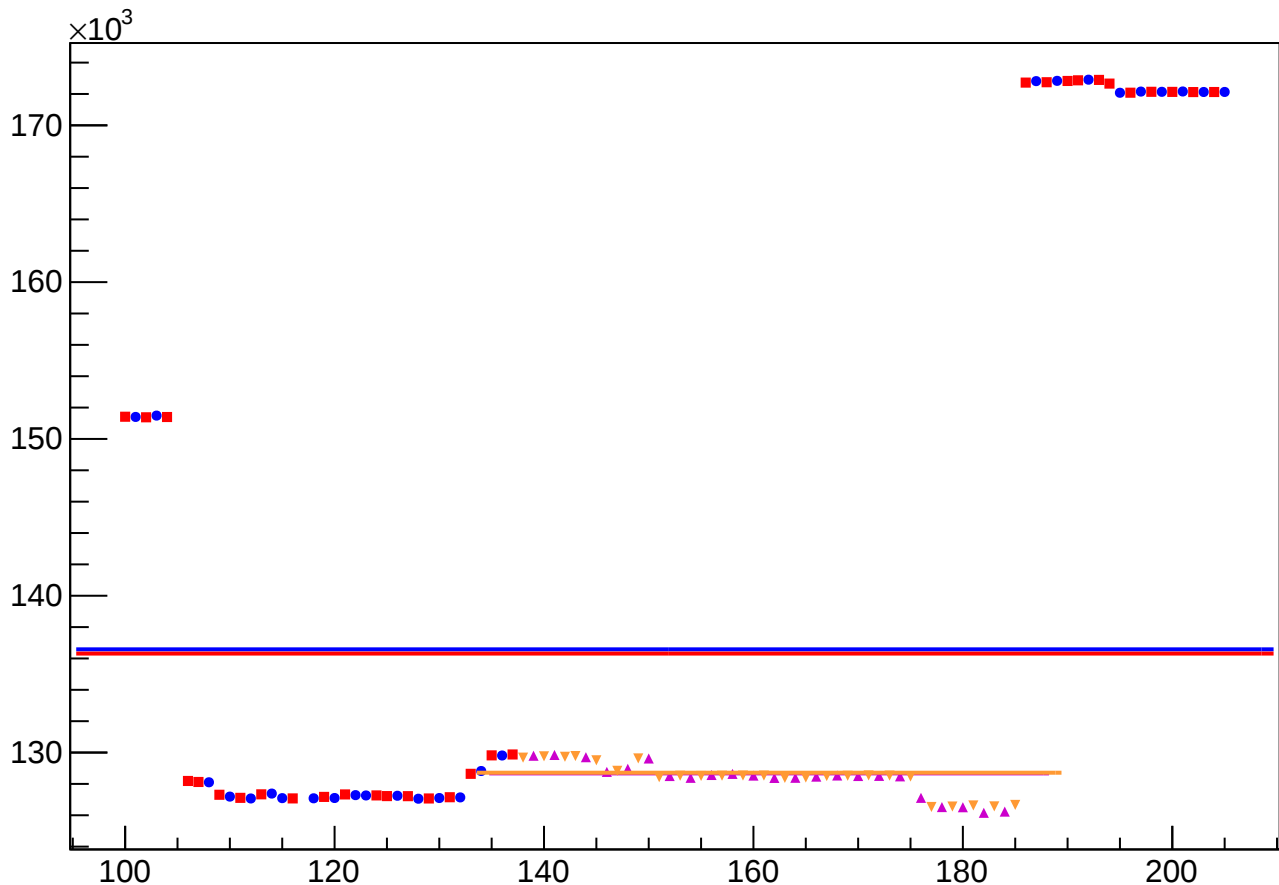
Right: 0.769 $\pm$ 0.000 χ^2 /NDF: 6158987.1/55

In: 0.795 $\pm$ 0.000 χ^2 /NDF:3444203.5/48

Out: 0.787 $\pm$ 0.000 χ^2 /NDF:3947273.4/54

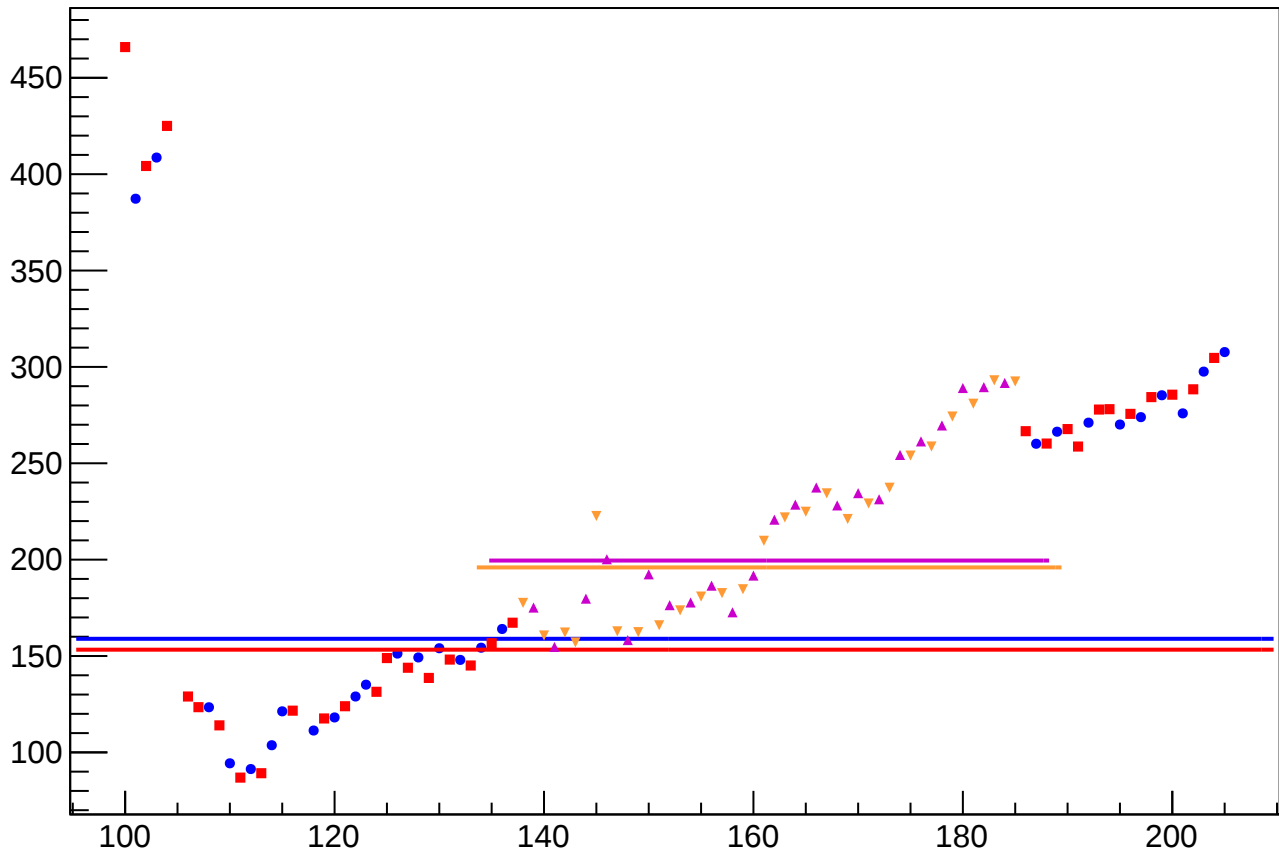
All: 0.791 $\pm$ 0.000 χ^2 /NDF: 7393856.2/103

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 136581.882 $\pm$ 0.049 χ^2 /NDF: 131298166413.7/25
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 136312.479 $\pm$ 0.045 χ^2 /NDF: 150855776987.3/29
 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: 136436.699 $\pm$ 0.033 χ^2 /NDF: 282170184622
 In: 132606.594 $\pm$ 0.035 χ^2 /NDF: 144693120720.2
 Out: 132617.026 $\pm$ 0.033 χ^2 /NDF: 164831963669
 All: 132612.133 $\pm$ 0.024 χ^2 /NDF: 309525132

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 158.930 $\pm$ 0.035 χ^2 /NDF: 4424879.4/25

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 153.284 $\pm$ 0.032 χ^2 /NDF: 5039666.9/29

Left In: 199.531 $\pm$ 0.035 χ^2 /NDF:1175342.5/22

Left: 197.666 $\pm$ 0.024 χ^2 /NDF: 2497014.2/47

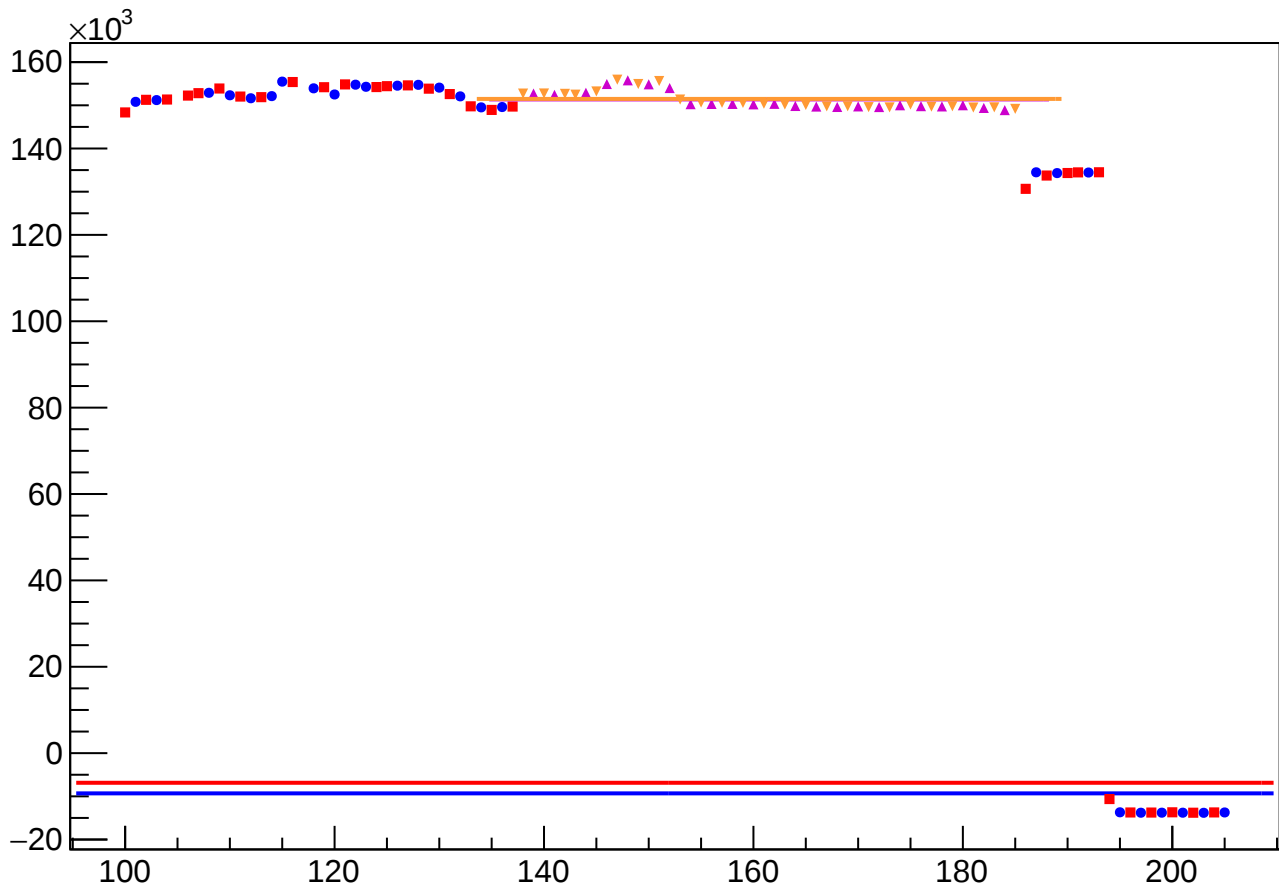
Right: 155.887 $\pm$ 0.024 χ^2 /NDF: 9478817.4/55

In: 179.330 $\pm$ 0.024 χ^2 /NDF:6288071.5/48

Out: 174.040 $\pm$ 0.023 χ^2 /NDF:7215634.6/54

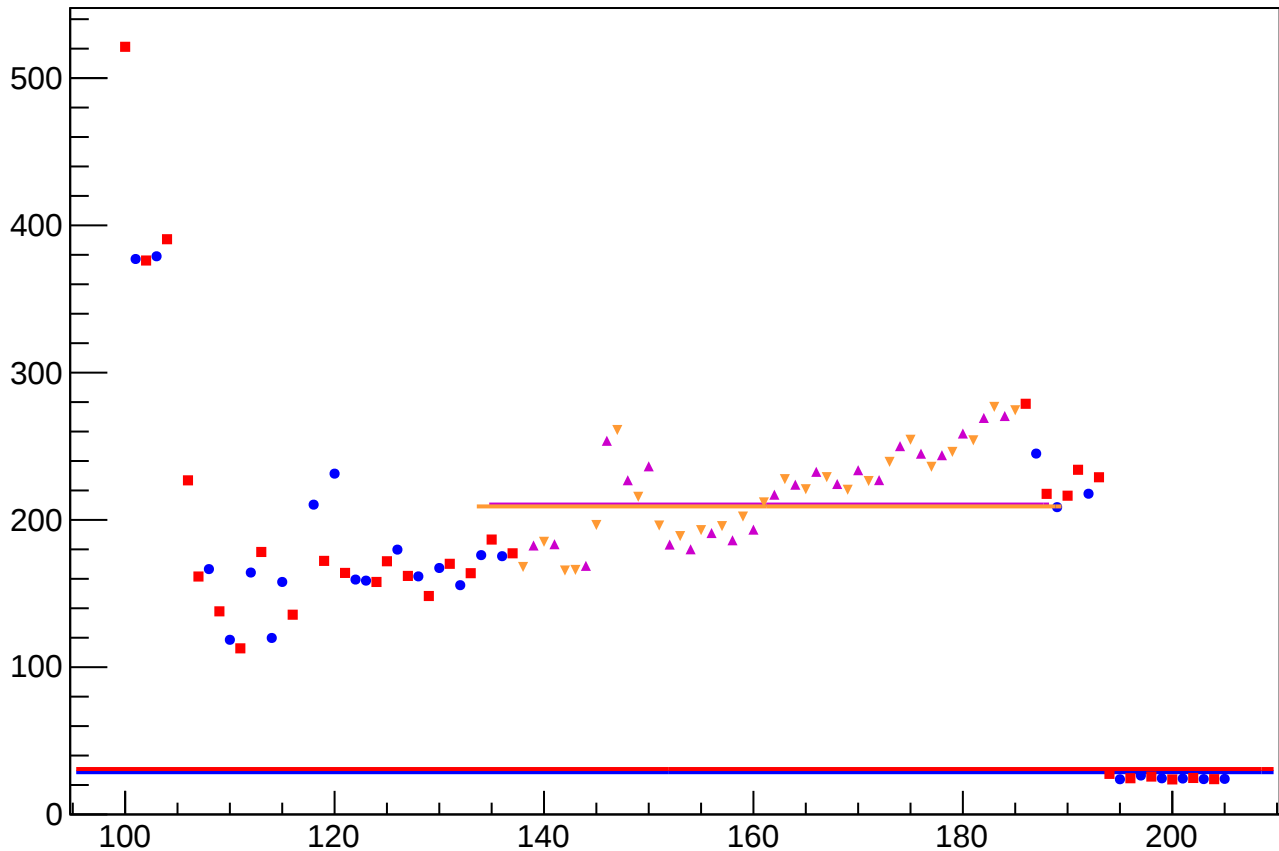
All: 176.521 $\pm$ 0.017 χ^2 /NDF: 13528508.8/100

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -9311.188 $\pm$ 0.011	χ^2/NDF : 5810547054226.5/25	Left: 151423.440 $\pm$ 0.036	χ^2/NDF : 2913216467.1/24
Left Out: 151480.339 $\pm$ 0.049	χ^2/NDF : 1483692735.3/24	Right: -8197.305 $\pm$ 0.008	χ^2/NDF : 1290654788994.0/24
Right Out: -6859.244 $\pm$ 0.012	χ^2/NDF : 7073672048768.4/29	In: -2154.601 $\pm$ 0.011	χ^2/NDF : 15212785124613.7/29
Left In: 151362.440 $\pm$ 0.051	χ^2/NDF : 1426782789.9/22	Out: 2108.297 $\pm$ 0.012	χ^2/NDF : 16738815639309.0/22
		All: -204.557 $\pm$ 0.008	χ^2/NDF : 32022730655.0/22

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.689 ± 0.008 $\chi^2/\text{NDF}: 11311382.6/25$

Left Out: 209.156 ± 0.035 $\chi^2/\text{NDF}: 710094.9/24$

Right Out: 30.849 ± 0.009 $\chi^2/\text{NDF}: 13302899.9/29$

Left In: 210.431 ± 0.036 $\chi^2/\text{NDF}: 684015.0/22$

Left: 209.771 ± 0.025 $\chi^2/\text{NDF}: 1394750.9/47$

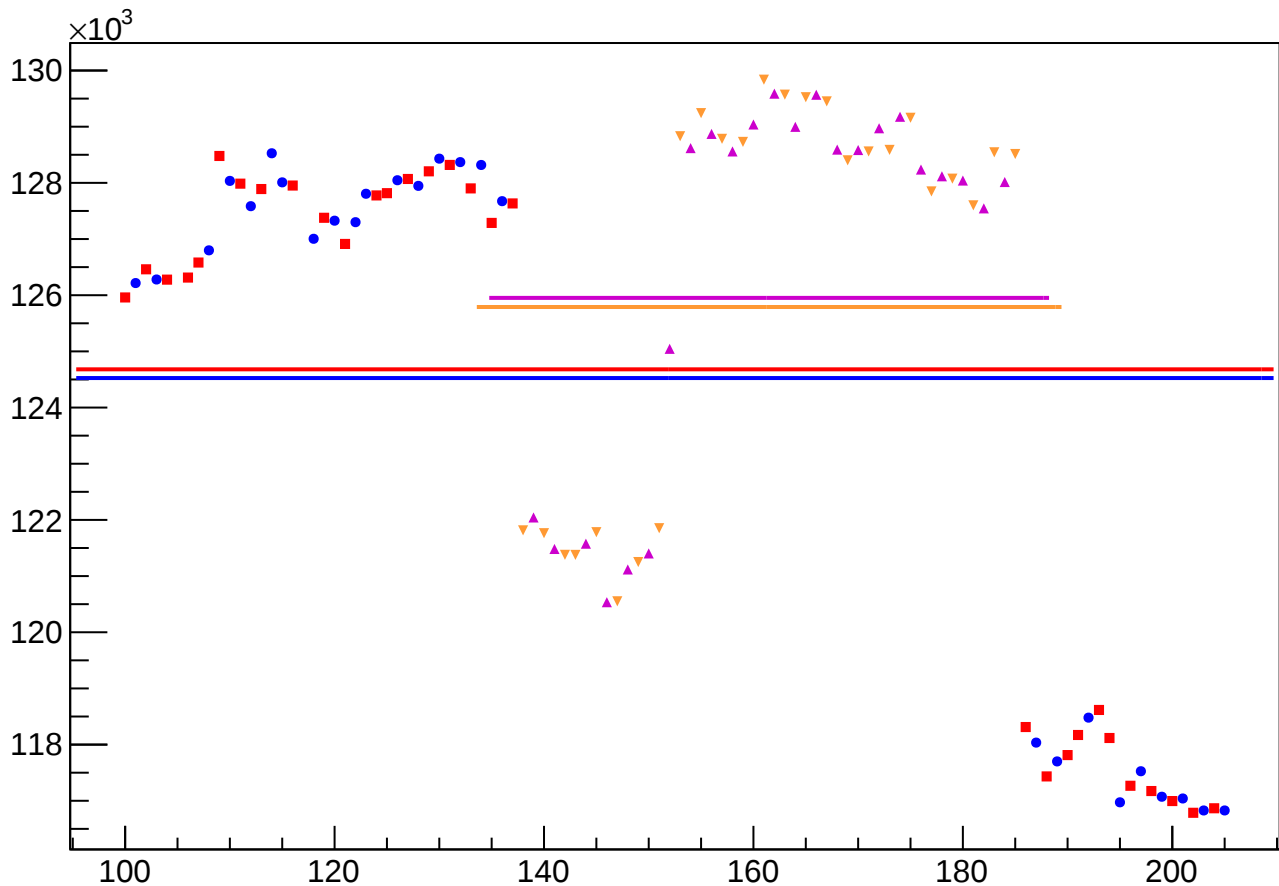
Right: 29.670 ± 0.006 $\chi^2/\text{NDF}: 24648948.5/55$

In: 36.784 ± 0.008 $\chi^2/\text{NDF}: 36050949.1/48$

Out: 40.948 ± 0.008 $\chi^2/\text{NDF}: 38522049.7/54$

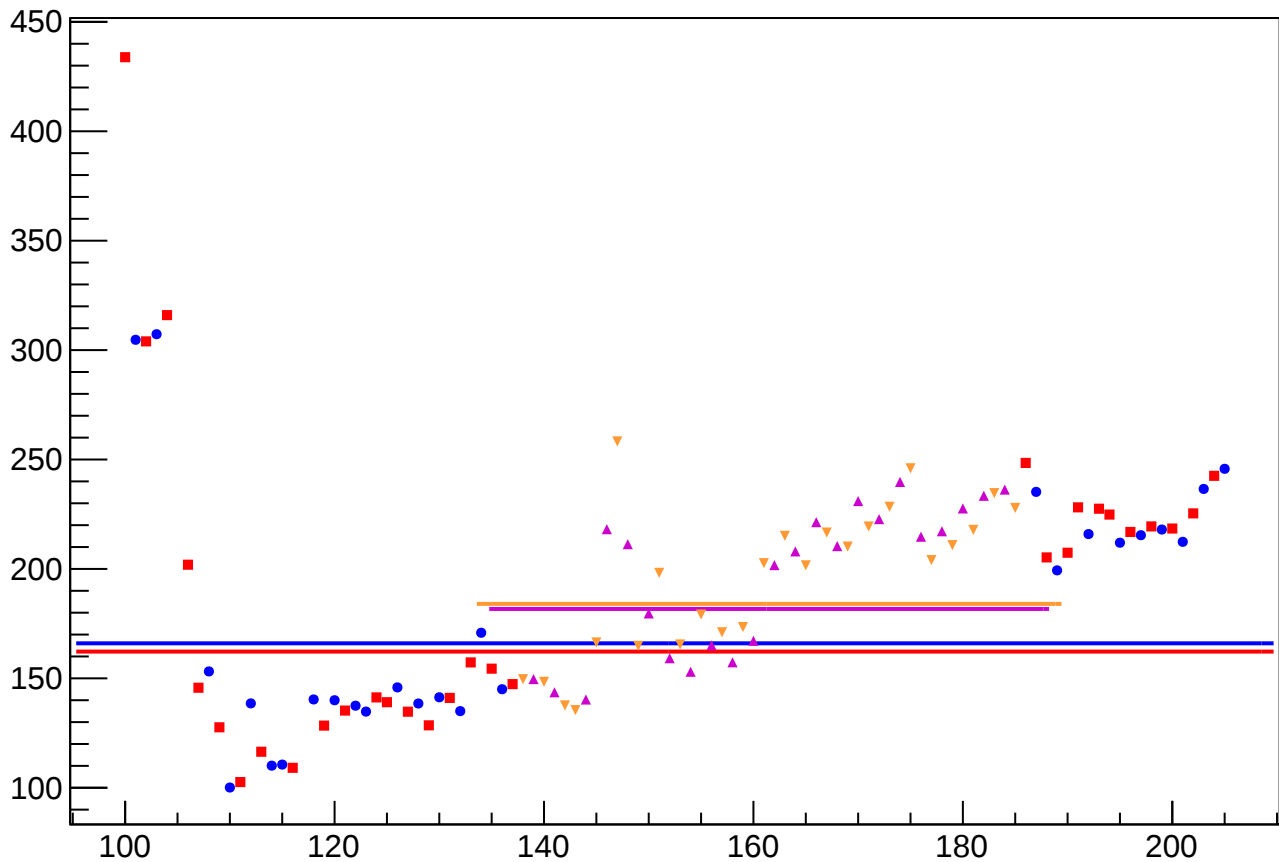
All: 38.689 ± 0.006 $\chi^2/\text{NDF}: 74708713.7/103$

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124525.387 $\pm$ 0.049	χ^2 /NDF: 9839962596.1/25	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/25
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 124607.767 $\pm$ 0.033	χ^2 /NDF: 20452012409.8/24
Right Out: 124680.580 $\pm$ 0.046	χ^2 /NDF: 10606638377.3/29	In: 125299.149 $\pm$ 0.033	χ^2 /NDF: 16149135736.3/29
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 125256.824 $\pm$ 0.032	χ^2 /NDF: 17657131586.8/22
		All: 125277.196 $\pm$ 0.023	χ^2 /NDF: 338071264/23

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 166.003 $\pm$ 0.034 χ^2 /NDF: 1950673.1/25

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 162.228 $\pm$ 0.032 χ^2 /NDF: 2430250.4/29

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

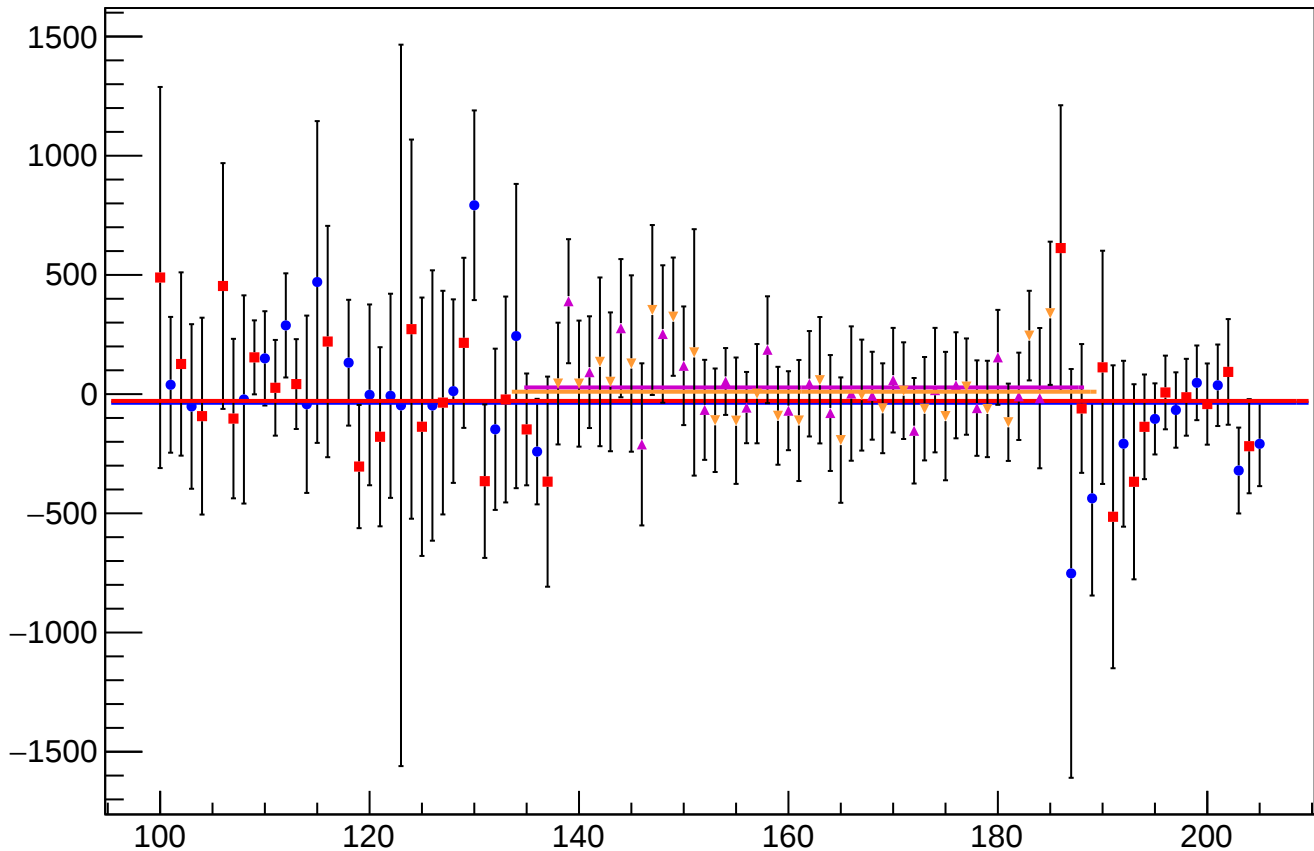
Right: 163.999 $\pm$ 0.024 χ^2 /NDF: 4387328.6/55

In: 174.522 $\pm$ 0.023 χ^2 /NDF: 3180105.2/48

Out: 173.550 $\pm$ 0.022 χ^2 /NDF: 3793263.4/54

All: 174.018 $\pm$ 0.016 χ^2 /NDF: 6974273.5/103

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -36.263 ± 50.310 χ^2/NDF : 15.7/25

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -28.514 ± 49.139 χ^2/NDF : 11.3/29

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

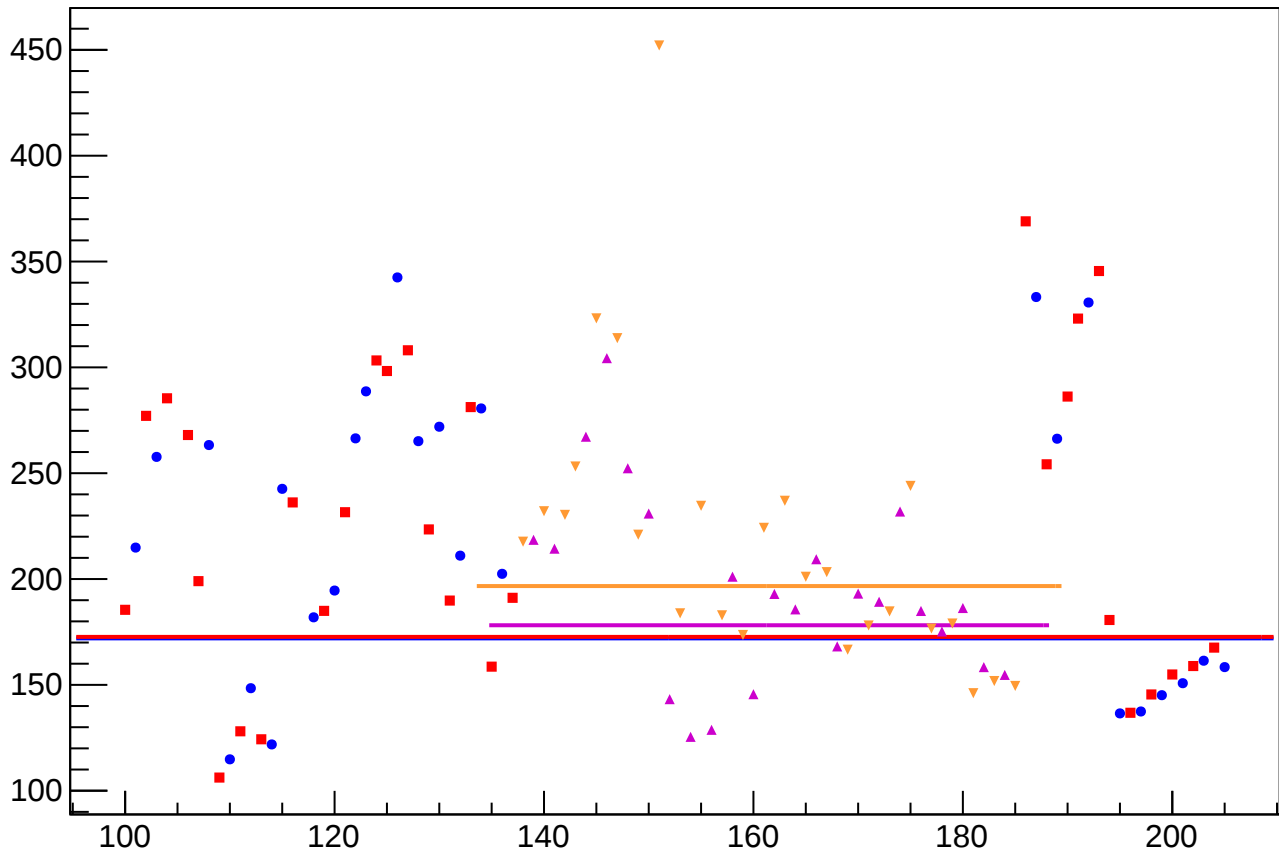
Right: -32.297 ± 35.153 χ^2/NDF : 27.1/55

In: -0.232 ± 33.363 χ^2/NDF : 23.6/48

Out: -8.559 ± 34.148 χ^2/NDF : 20.1/54

All: -4.299 ± 23.864 χ^2/NDF : 43.7/103

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 171.970 $\pm$ 0.036 χ^2/NDF : 2081114.0/25

Left Out: 196.682 $\pm$ 0.034 χ^2/NDF :1782715.7/24

Right Out: 172.667 $\pm$ 0.035 χ^2/NDF : 2746481.5/29

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

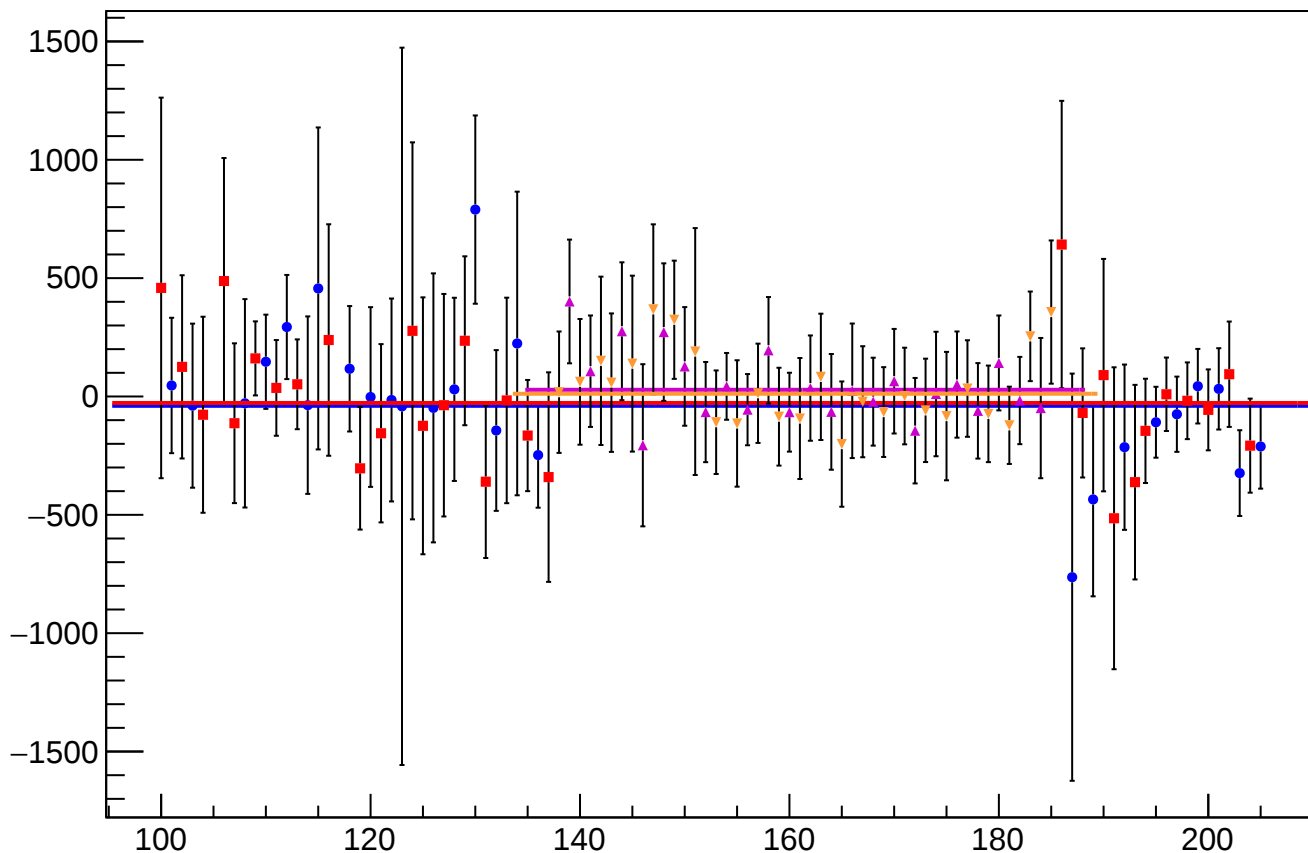
Right: 172.327 $\pm$ 0.025 χ^2/NDF : 4827792.1/55

In: 175.441 $\pm$ 0.024 χ^2/NDF :3717075.2/48

Out: 185.085 $\pm$ 0.024 χ^2/NDF :4776186.6/54

All: 180.151 $\pm$ 0.017 χ^2/NDF : 8574868.7/103

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -39.338 ± 50.556 χ^2/NDF : 15.7/25

Left Out: 11.479 ± 47.819 χ^2/NDF : 8.8/24

Right Out: -27.394 ± 49.392 χ^2/NDF : 11.5/29

Left In: 28.280 ± 44.863 χ^2/NDF : 7.1/22

Left: 20.415 ± 32.718 χ^2/NDF : 16.0/47

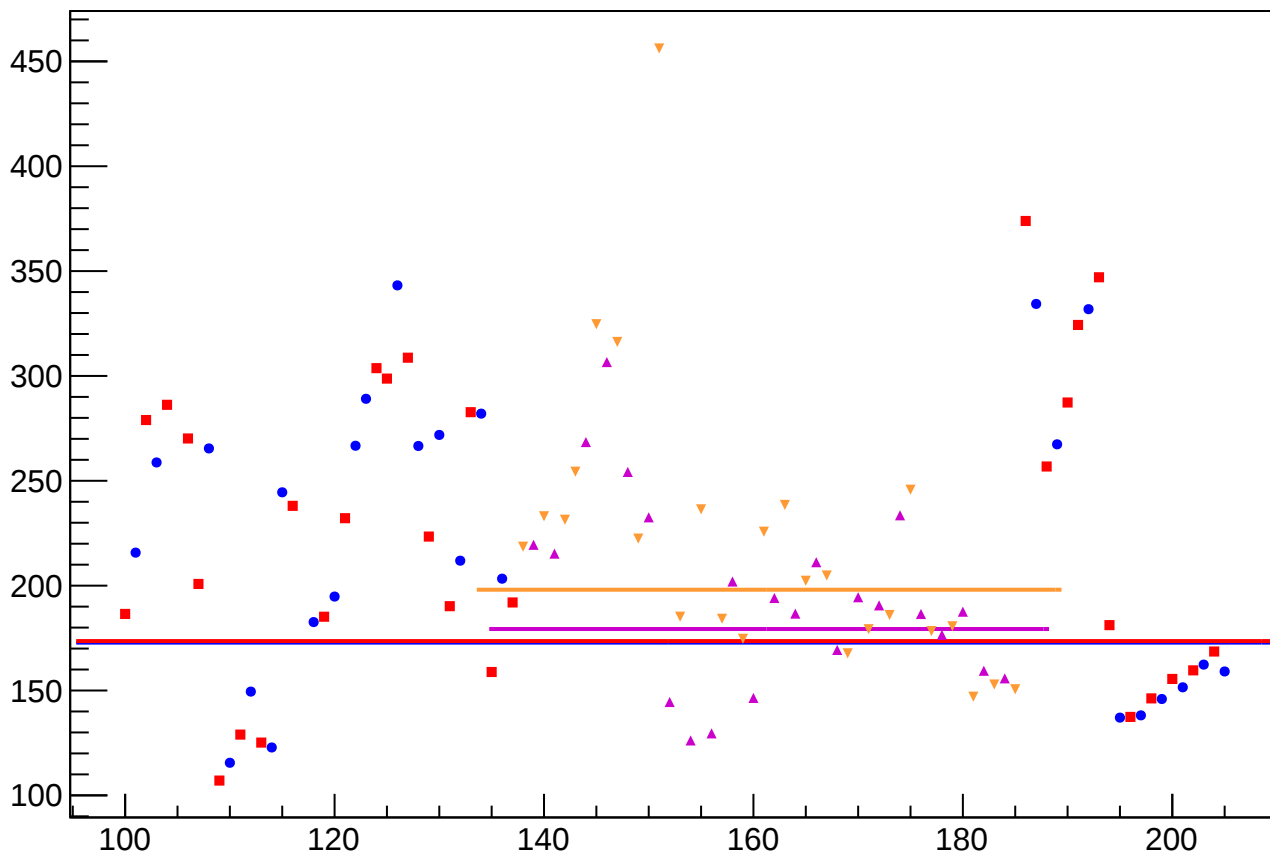
Right: -33.227 ± 35.329 χ^2/NDF : 27.2/55

In: -1.509 ± 33.556 χ^2/NDF : 23.8/48

Out: -7.329 ± 34.356 χ^2/NDF : 20.7/54

All: -4.351 ± 24.005 χ^2/NDF : 44.5/103

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 172.841 ± 0.036 χ^2/NDF : 2071753.8/25

Left Out: 198.059 ± 0.034 χ^2/NDF : 1778526.5/24

Right Out: 173.572 ± 0.035 χ^2/NDF : 2741095.5/29

Left In: 179.324 ± 0.032 χ^2/NDF : 1618266.2/22

Left: 188.094 ± 0.023 χ^2/NDF : 3560073.1/47

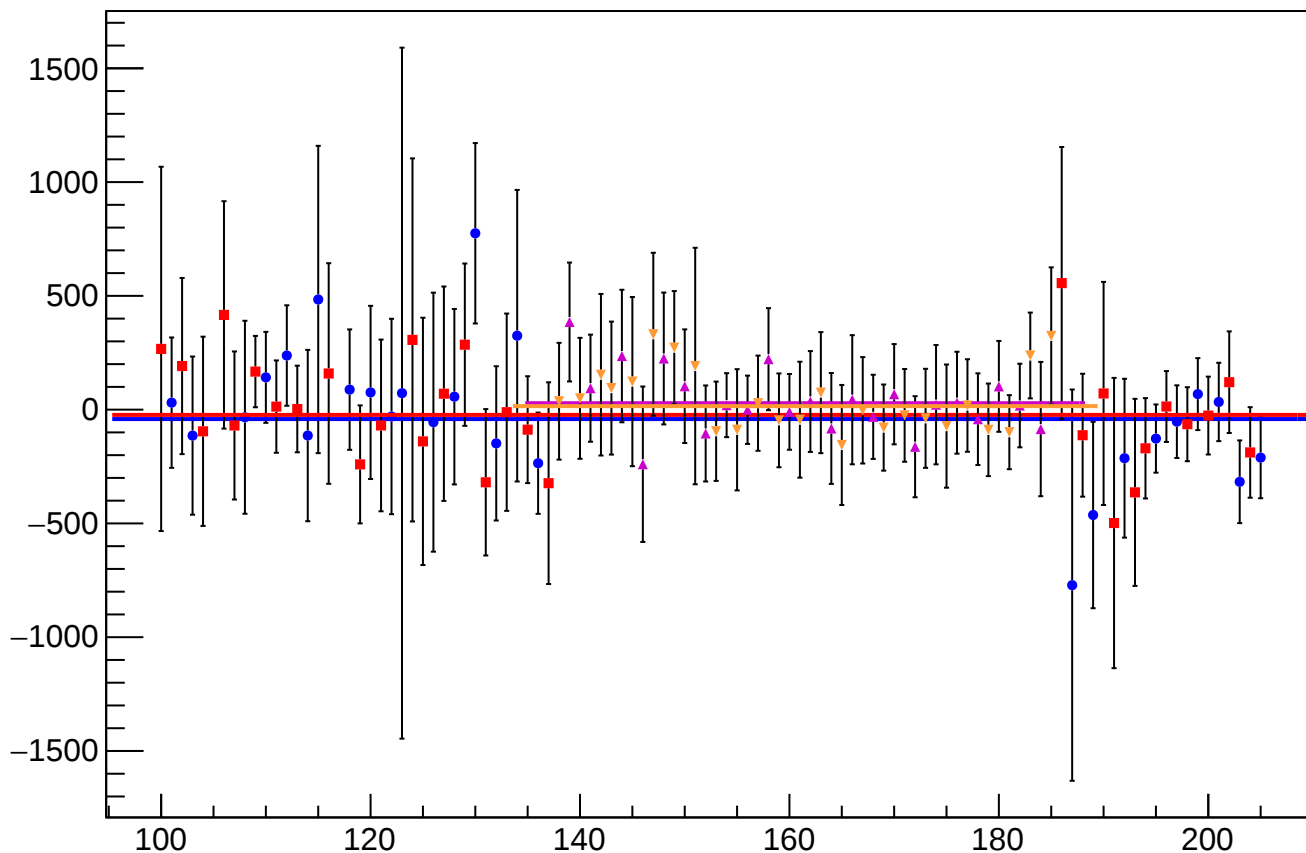
Right: 173.215 ± 0.025 χ^2/NDF : 4813063.4/55

In: 176.468 ± 0.024 χ^2/NDF : 3708418.6/48

Out: 186.212 ± 0.024 χ^2/NDF : 4773353.9/54

All: 181.225 ± 0.017 χ^2/NDF : 8564103.7/103

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -41.420 ± 50.633 χ^2/NDF : 15.3/25

Left Out: 15.437 ± 47.695 χ^2/NDF : 7.0/24

Right Out: -23.130 ± 49.389 χ^2/NDF : 10.0/29

Left In: 28.277 ± 44.743 χ^2/NDF : 6.4/22

Left: 22.267 ± 32.632 χ^2/NDF : 13.4/47

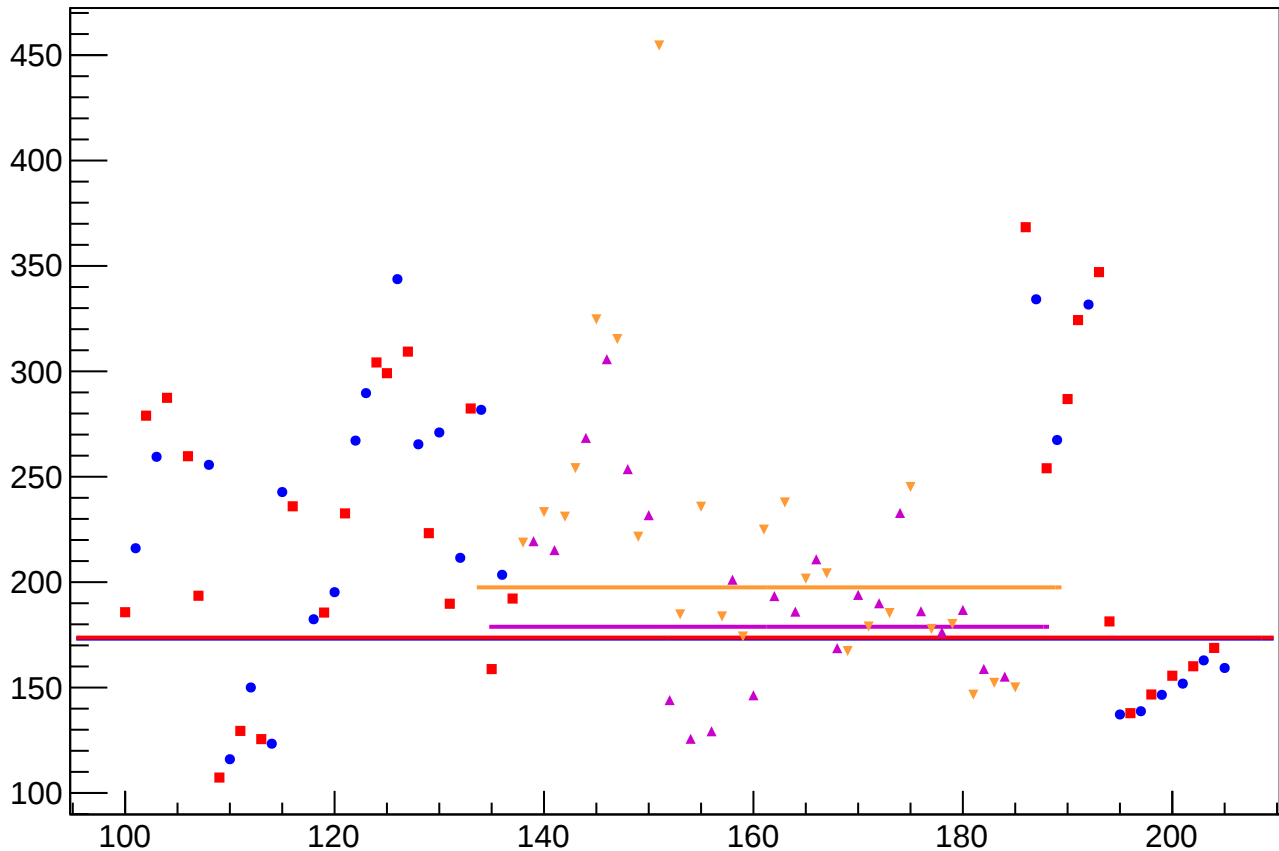
Right: -32.048 ± 35.355 χ^2/NDF : 25.3/55

In: -2.284 ± 33.528 χ^2/NDF : 22.7/48

Out: -3.174 ± 34.308 χ^2/NDF : 17.3/54

All: -2.719 ± 23.979 χ^2/NDF : 40.0/103

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 173.219 ± 0.036 χ^2/NDF : 2040778.4/25

Left Out: 197.527 ± 0.034 χ^2/NDF : 1784225.5/24

Right Out: 173.711 ± 0.035 χ^2/NDF : 2696891.6/29

Left In: 178.836 ± 0.032 χ^2/NDF : 1622266.9/22

Left: 187.585 ± 0.023 χ^2/NDF : 3569877.1/47

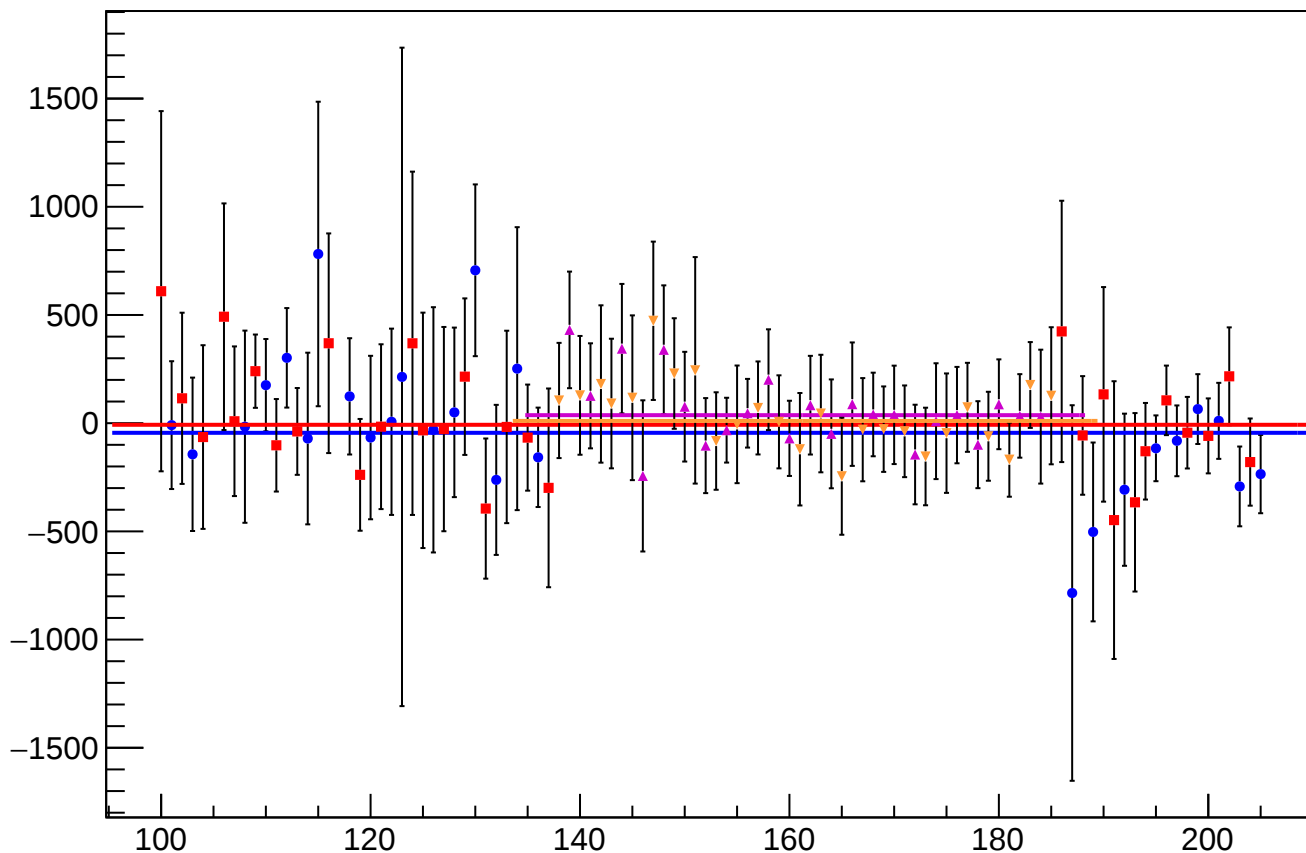
Right: 173.471 ± 0.025 χ^2/NDF : 4737766.7/55

In: 176.373 ± 0.024 χ^2/NDF : 3676866.1/48

Out: 186.034 ± 0.024 χ^2/NDF : 4721777.6/54

All: 181.092 ± 0.017 χ^2/NDF : 8479772.7/103

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -44.501 ± 51.792 χ^2/NDF : 16.0/25

Left Out: 10.534 ± 49.197 χ^2/NDF : 7.5/24

Right Out: -7.451 ± 50.822 χ^2/NDF : 12.3/29

Left In: 37.000 ± 46.358 χ^2/NDF : 7.9/22

Left: 24.553 ± 33.739 χ^2/NDF : 15.5/47

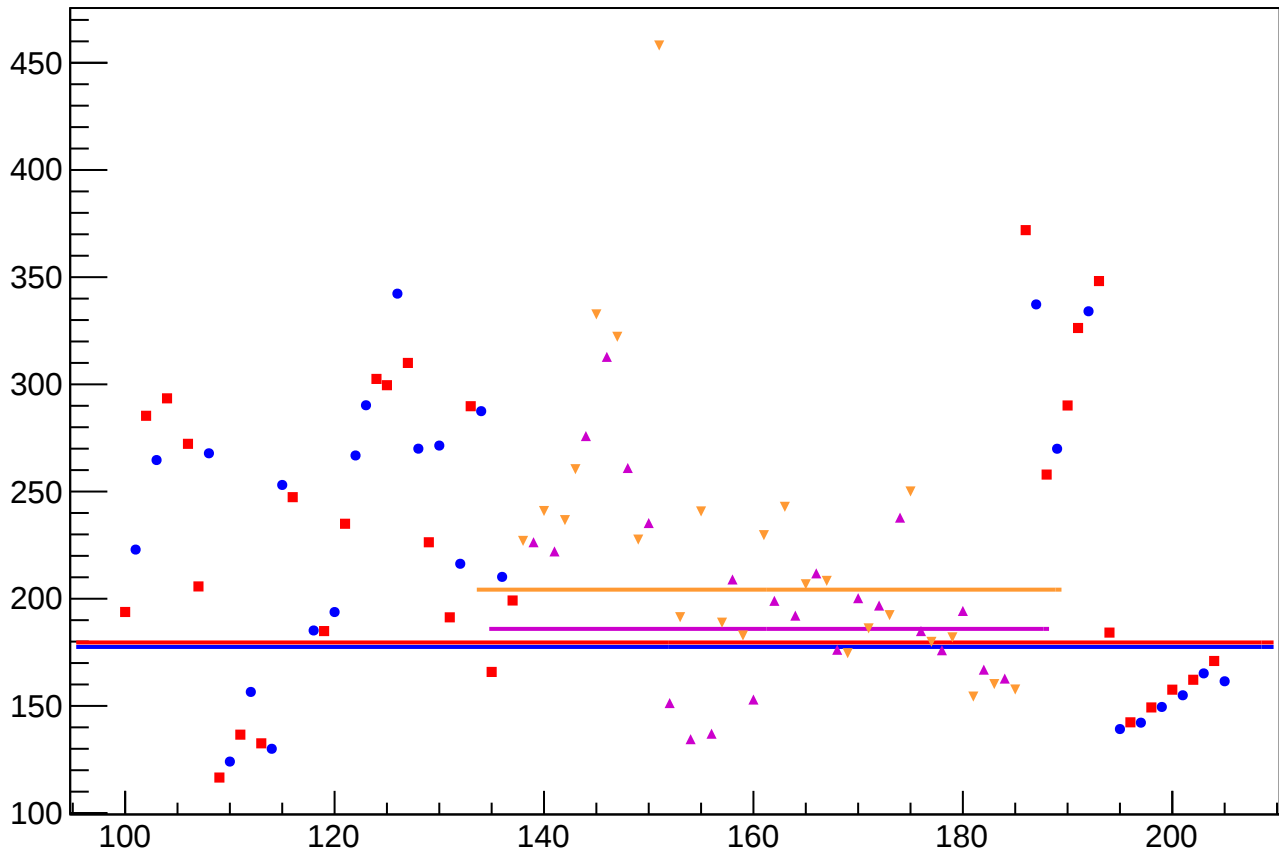
Right: -25.626 ± 36.274 χ^2/NDF : 28.5/55

In: 0.748 ± 34.542 χ^2/NDF : 25.3/48

Out: 1.834 ± 35.348 χ^2/NDF : 19.8/54

All: 1.278 ± 24.705 χ^2/NDF : 45.1/103

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 177.506 $\pm$ 0.037 χ^2 /NDF: 1965329.9/25

Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24

Right Out: 179.603 $\pm$ 0.036 χ^2 /NDF: 2503015.5/29

Left In: 185.931 $\pm$ 0.033 χ^2 /NDF:1460065.0/22

Left: 194.540 $\pm$ 0.024 χ^2 /NDF: 3282383.3/47

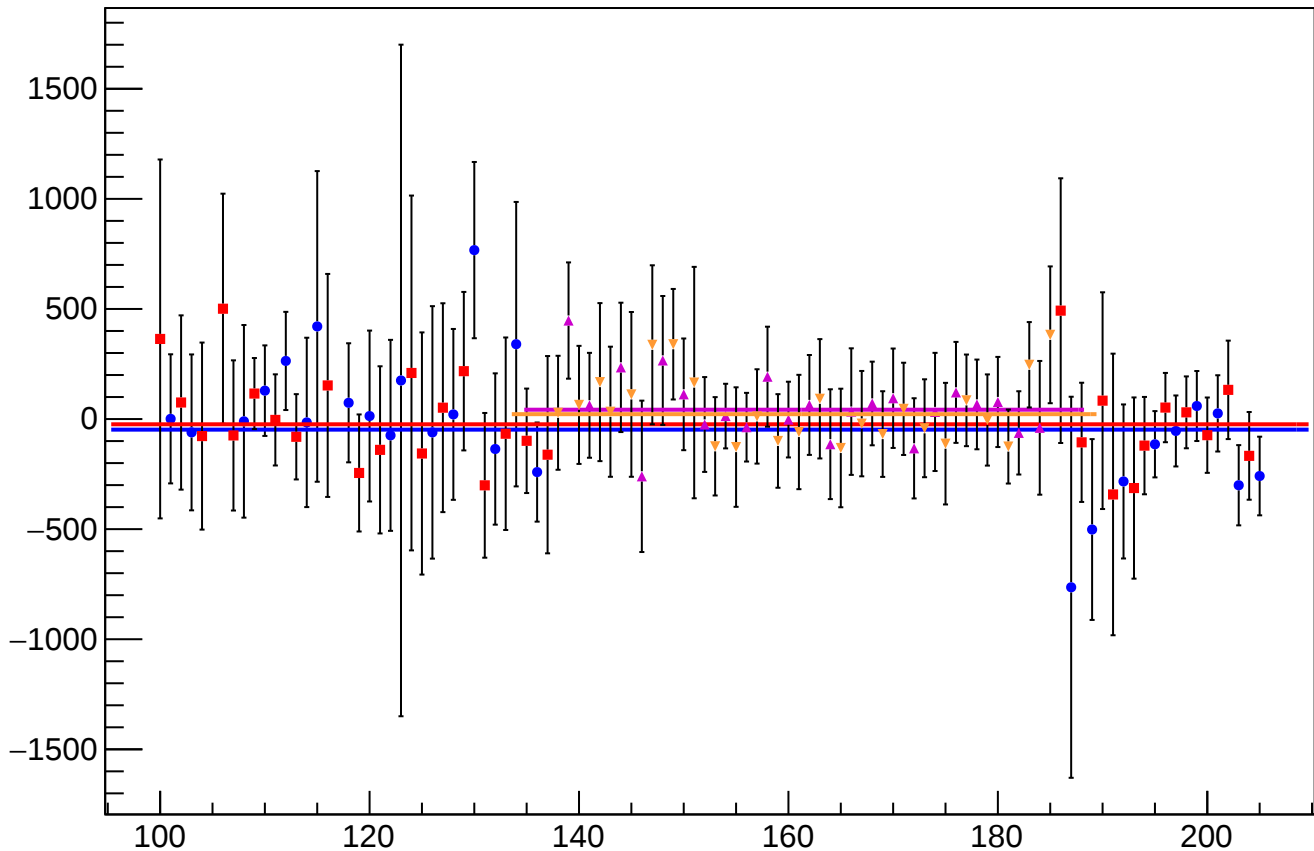
Right: 178.574 $\pm$ 0.026 χ^2 /NDF: 4470016.2/55

In: 182.184 $\pm$ 0.024 χ^2 /NDF:3454780.7/48

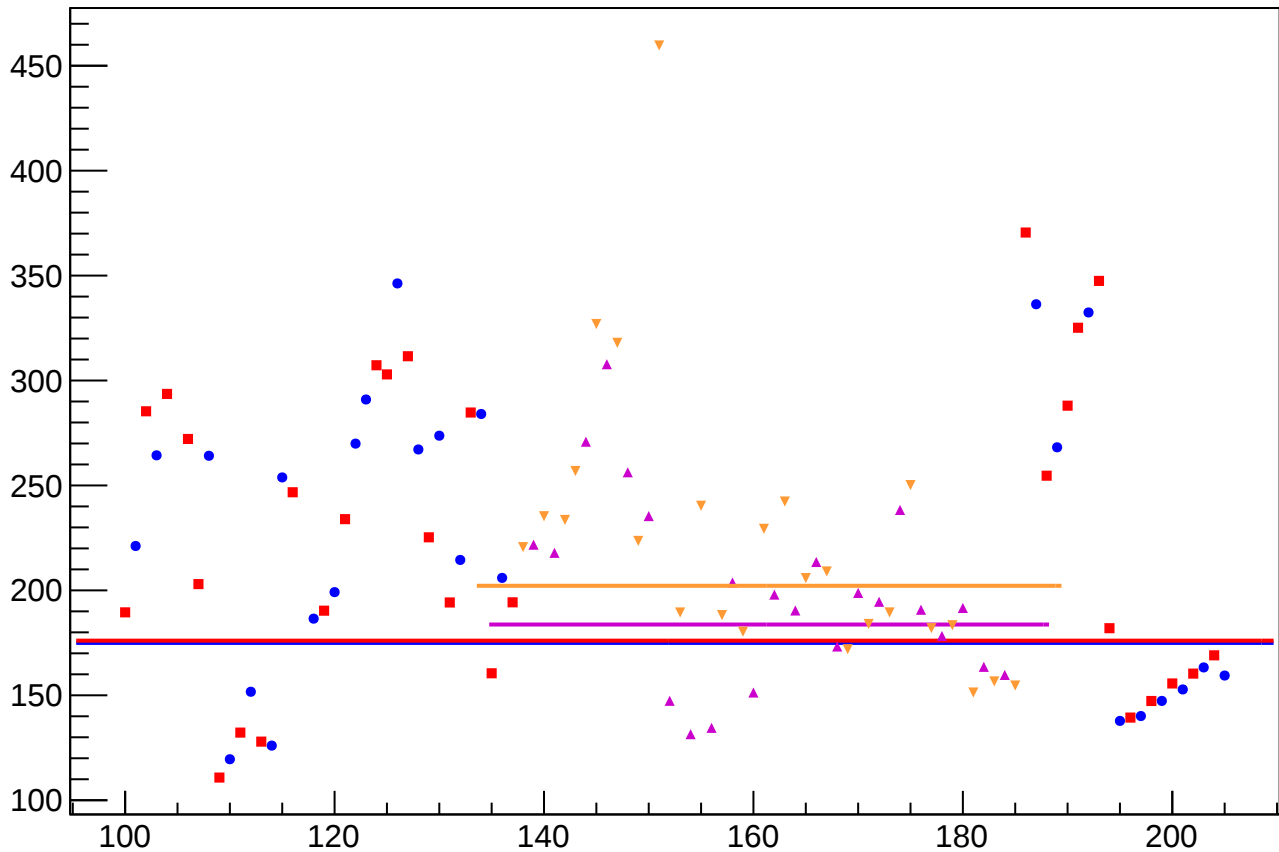
Out: 192.320 $\pm$ 0.025 χ^2 /NDF:4421233.8/54

All: 187.135 $\pm$ 0.017 χ^2 /NDF: 7960135.0/103

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 174.959 $\pm$ 0.036 χ^2 /NDF: 2048062.6/25

Left Out: 202.186 $\pm$ 0.034 χ^2 /NDF:1696571.9/24

Right Out: 176.048 $\pm$ 0.035 χ^2 /NDF: 2669991.6/29

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

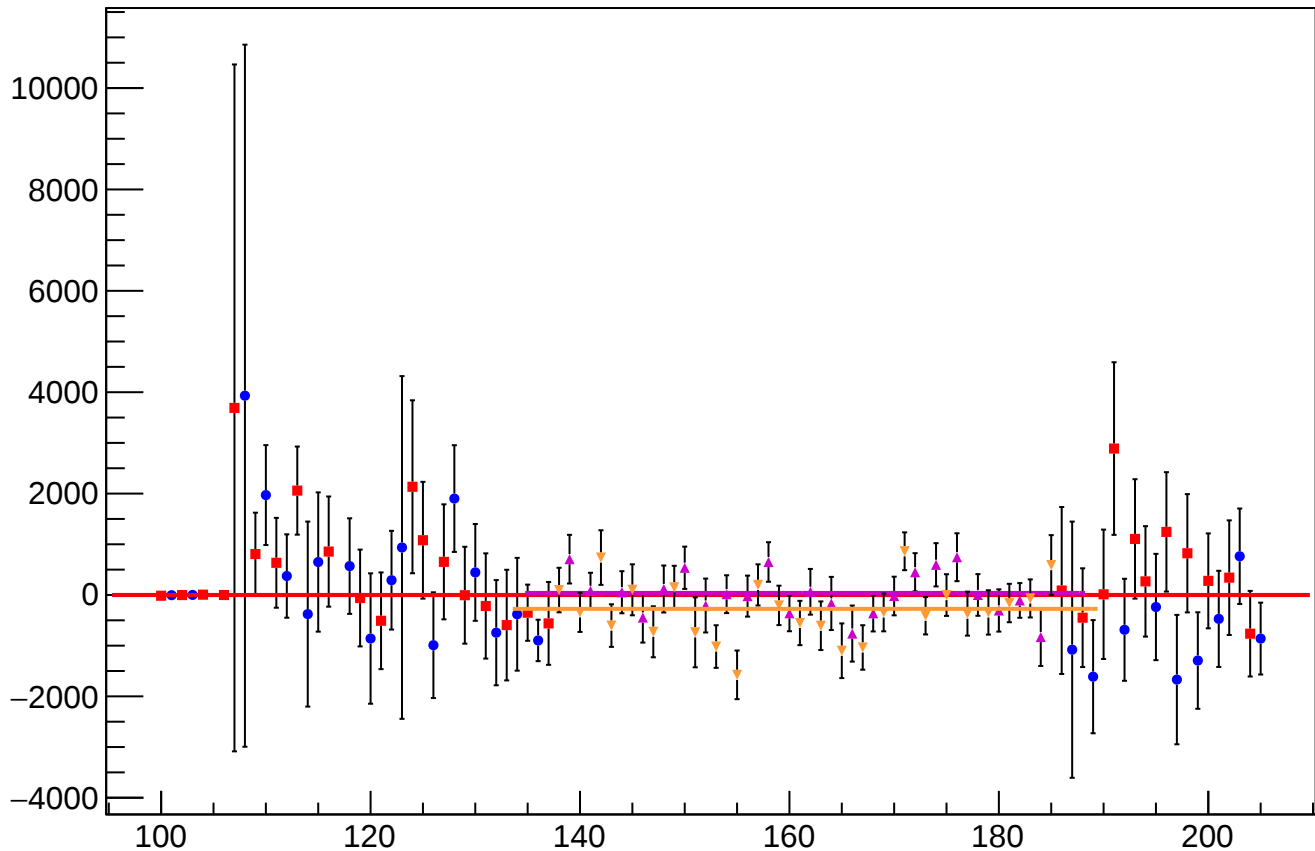
Right: 175.516 $\pm$ 0.025 χ^2 /NDF: 4718517.3/55

In: 179.822 $\pm$ 0.024 χ^2 /NDF:3576616.2/48

Out: 189.451 $\pm$ 0.025 χ^2 /NDF:4646834.6/54

All: 184.530 $\pm$ 0.017 χ^2 /NDF: 8301245.5/103

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.560 ± 2.251 χ^2/NDF : 25.6/25

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.742 ± 2.111 χ^2/NDF : 24.9/29

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

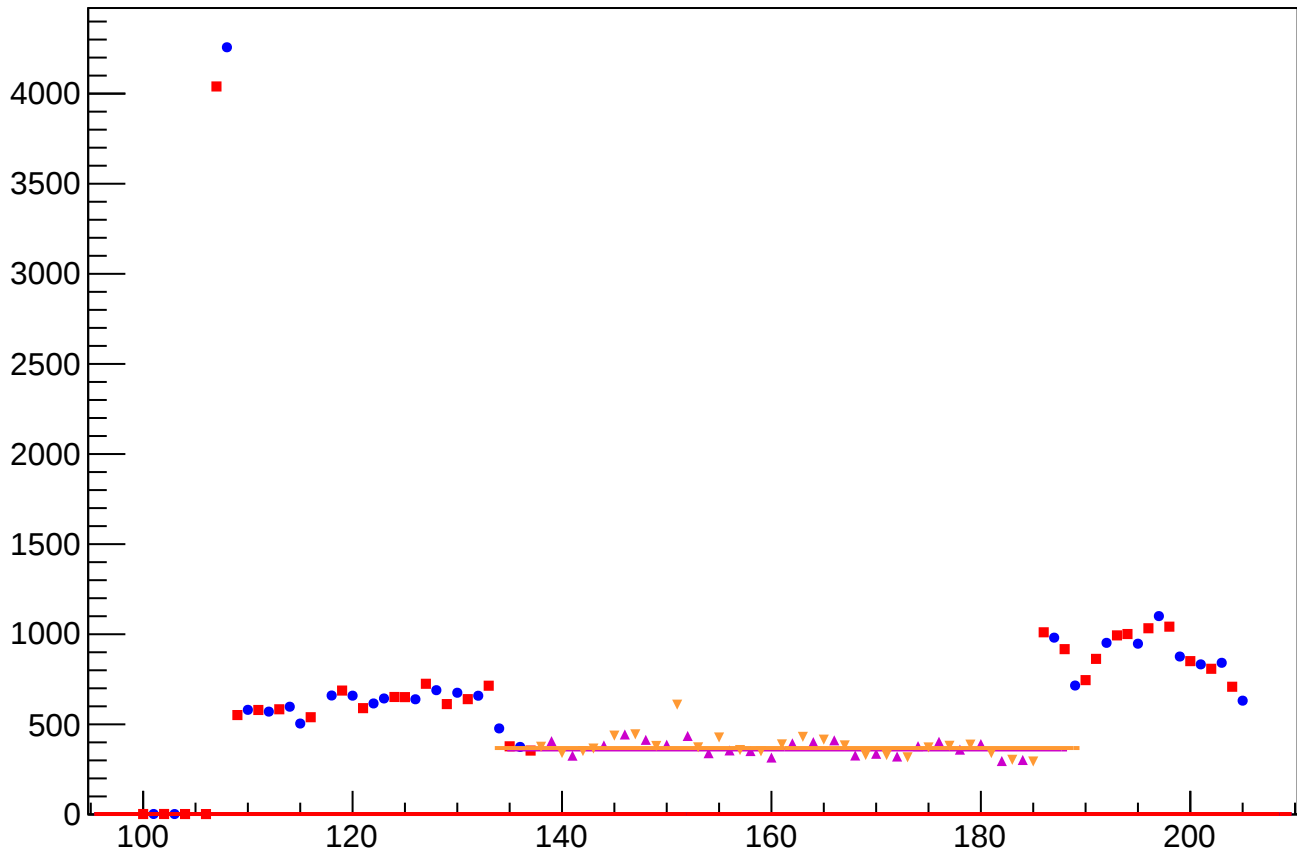
Right: -0.335 ± 1.540 χ^2/NDF : 51.0/55

In: -1.532 ± 2.251 χ^2/NDF : 46.0/48

Out: 0.580 ± 2.110 χ^2/NDF : 73.1/54

All: -0.408 ± 1.539 χ^2/NDF : 119.6/103

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.493+/-0.002 χ^2/NDF : 23050800.6/25

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.471+/-0.001 χ^2/NDF : 25073263.2/29

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

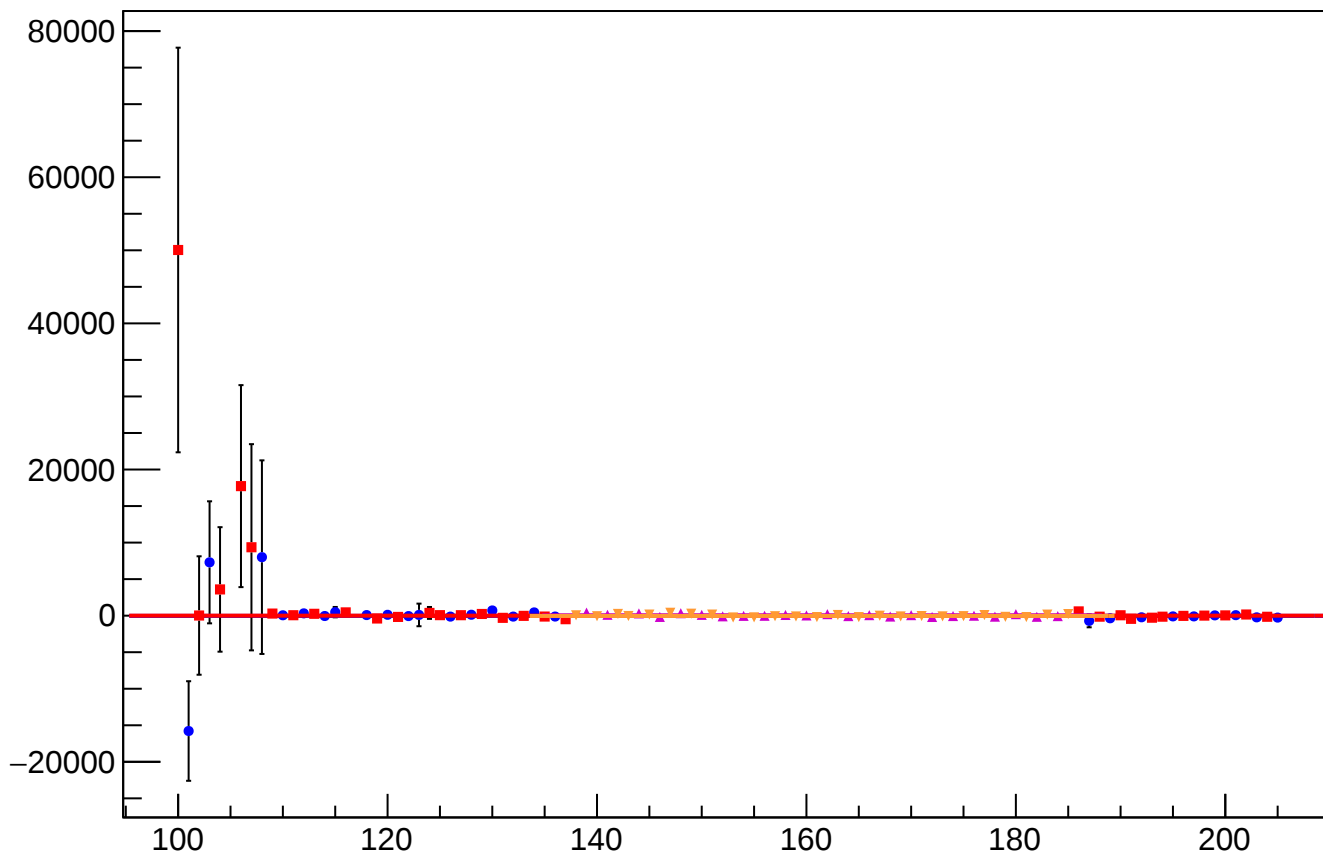
Right: 2.481+/-0.001 χ^2/NDF : 48124163.5/55

In: 2.730+/-0.002 χ^2/NDF : 56967895.9/48

Out: 2.687+/-0.001 χ^2/NDF : 61183512.5/54

All: 2.707+/-0.001 χ^2/NDF : 118151793.5/103

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -30.195+/-56.212 χ^2/NDF : 18.8/25

Left Out: -39.036+/-49.576 χ^2/NDF : 9.1/24

Right Out: 1.292+/-56.013 χ^2/NDF : 17.7/29

Left In: 28.062+/-48.032 χ^2/NDF : 9.6/22

Left: -4.426+/-34.497 χ^2/NDF : 19.7/47

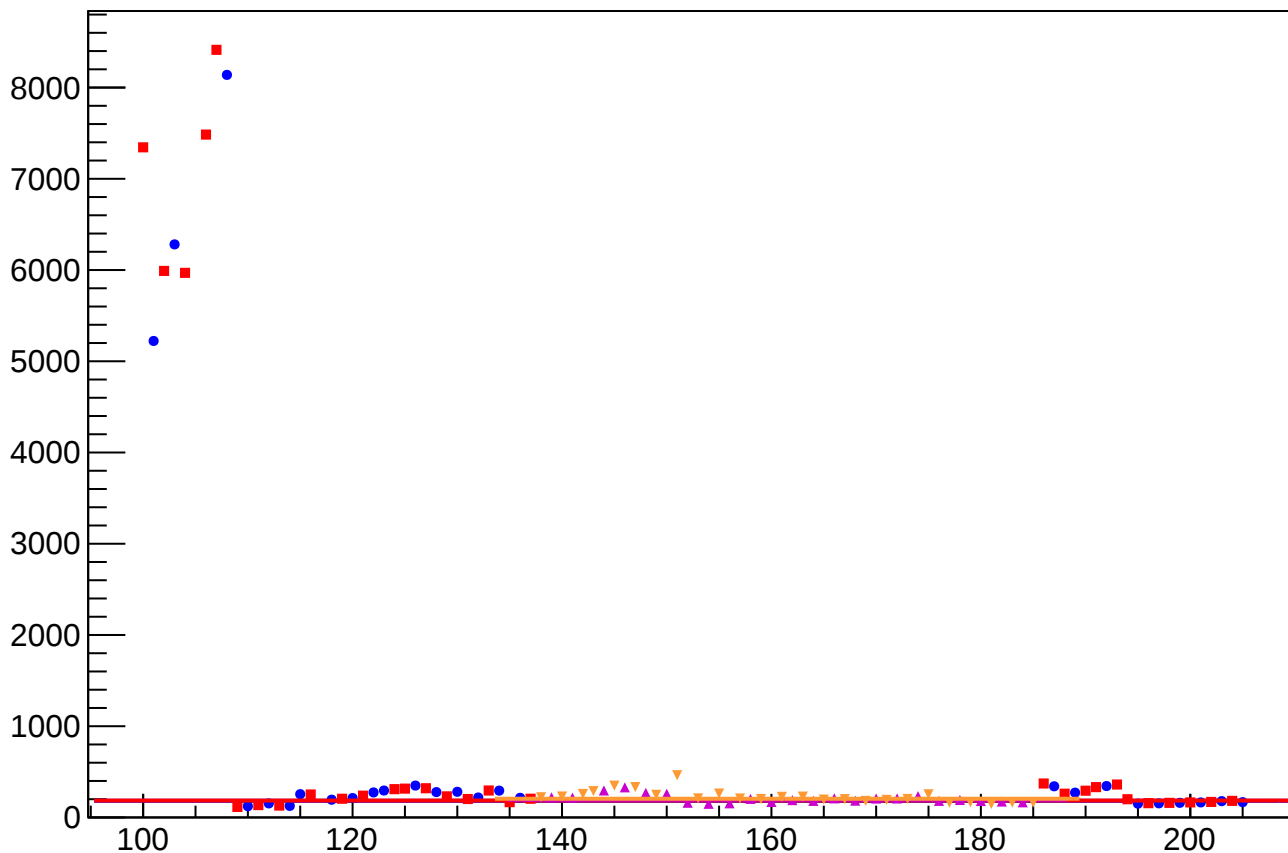
Right: -14.396+/-39.677 χ^2/NDF : 36.7/55

In: 3.476+/-36.516 χ^2/NDF : 29.0/48

Out: -21.321+/-37.124 χ^2/NDF : 27.2/54

All: -8.718+/-26.033 χ^2/NDF : 56.4/103

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 182.378+/-0.040 χ^2/NDF : 4494809.0/25

Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24

Right Out: 185.336+/-0.040 χ^2/NDF : 5330820.6/29

Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

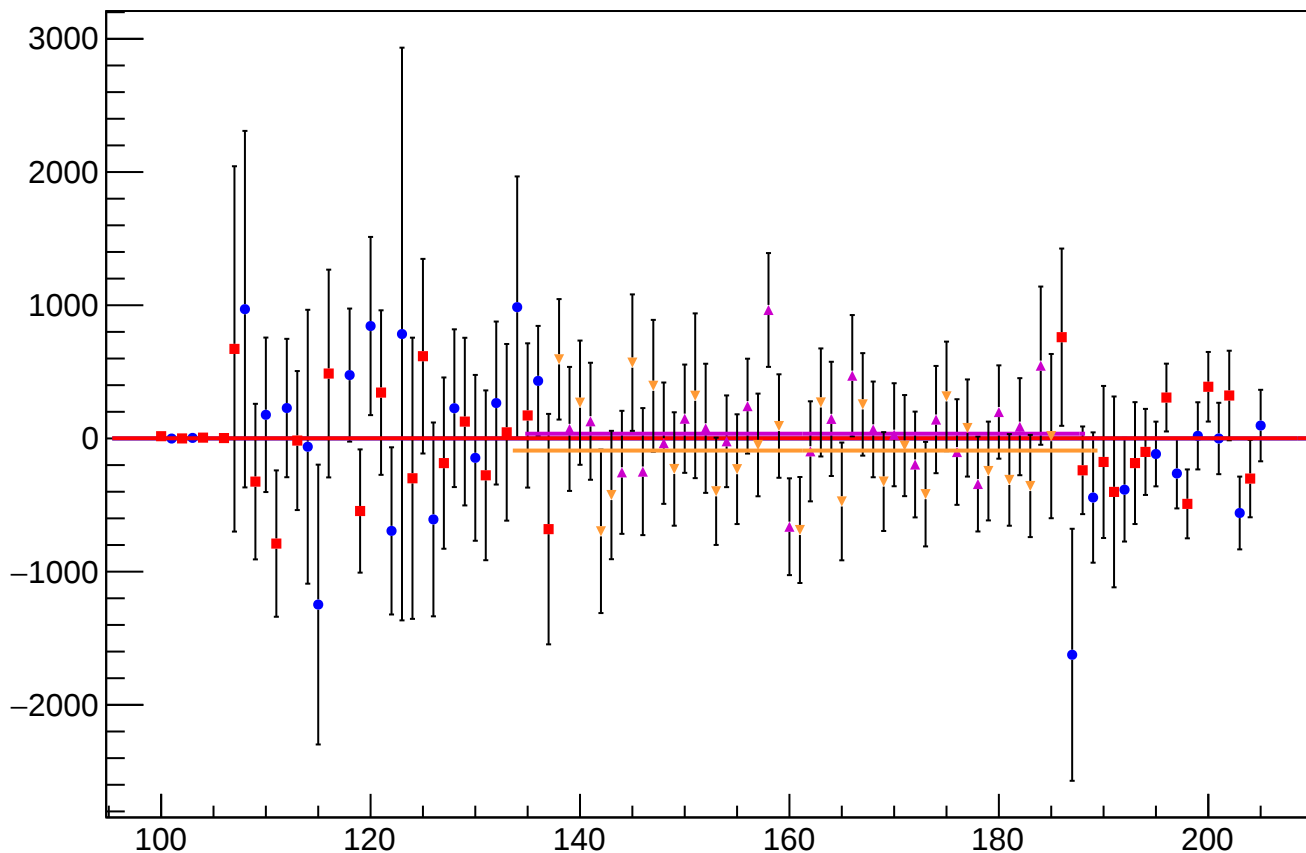
Right: 183.862+/-0.028 χ^2/NDF : 9828409.0/55

In: 188.874+/-0.026 χ^2/NDF :5720484.0/48

Out: 196.426+/-0.026 χ^2/NDF :7428118.7/54

All: 192.588+/-0.018 χ^2/NDF : 13190677.0/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.195 $\pm$ 1.736 χ^2/NDF : 20.4/25

Left Out: -90.945 $\pm$ 84.079 χ^2/NDF : 16.4/24

Right Out: 1.319 $\pm$ 1.622 χ^2/NDF : 21.0/29

Left In: 35.488 $\pm$ 84.382 χ^2/NDF : 13.4/22

Left: -27.956 $\pm$ 59.560 χ^2/NDF : 31.0/47

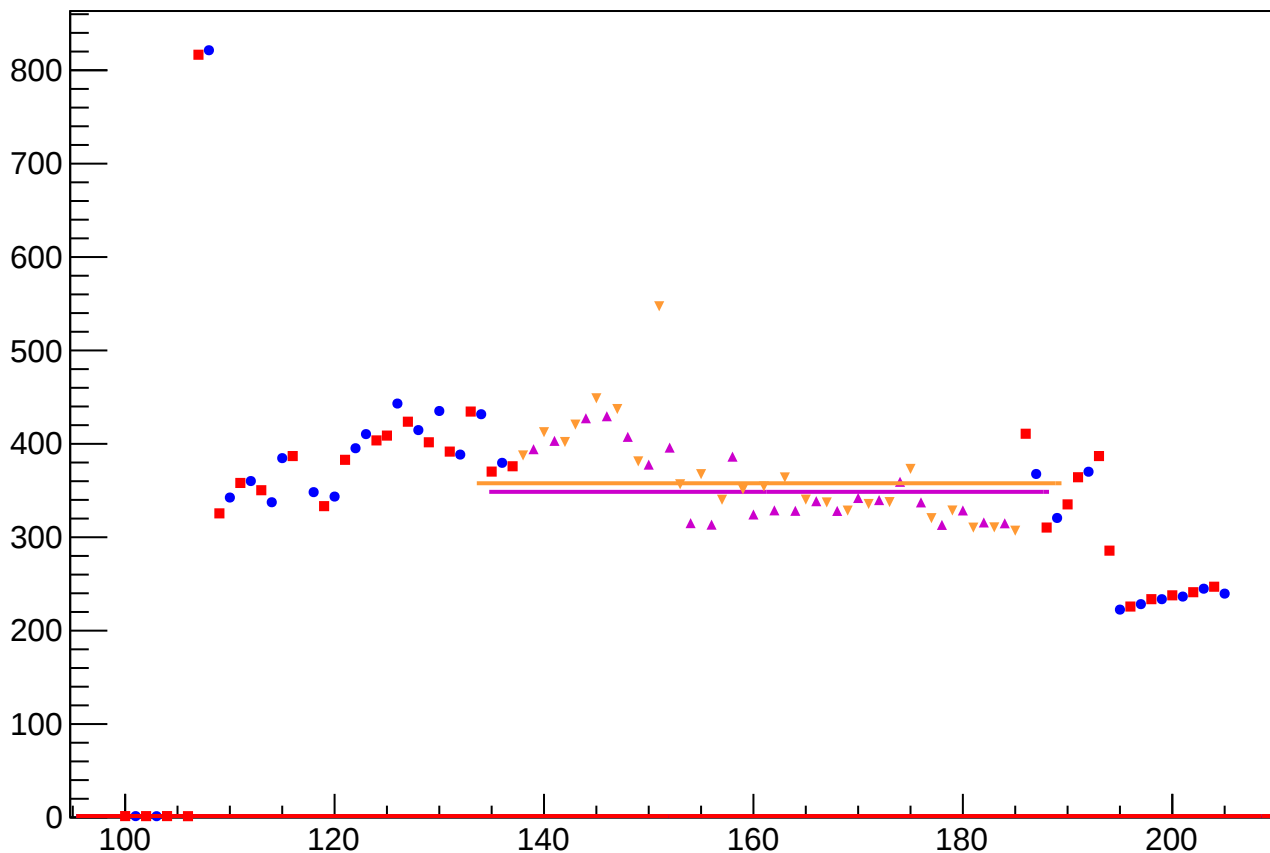
Right: 0.614 $\pm$ 1.185 χ^2/NDF : 41.9/55

In: -0.179 $\pm$ 1.736 χ^2/NDF : 34.0/48

Out: 1.285 $\pm$ 1.622 χ^2/NDF : 38.7/54

All: 0.602 $\pm$ 1.185 χ^2/NDF : 73.1/103

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.526 ± 0.001 χ^2/NDF : 23267420.3/25

Left Out: 357.804 ± 0.059 χ^2/NDF : 547036.5/24

Right Out: 1.518 ± 0.001 χ^2/NDF : 24760366.3/29

Left In: 348.611 ± 0.060 χ^2/NDF : 362511.2/22

Left: 353.224 ± 0.042 χ^2/NDF : 921460.0/47

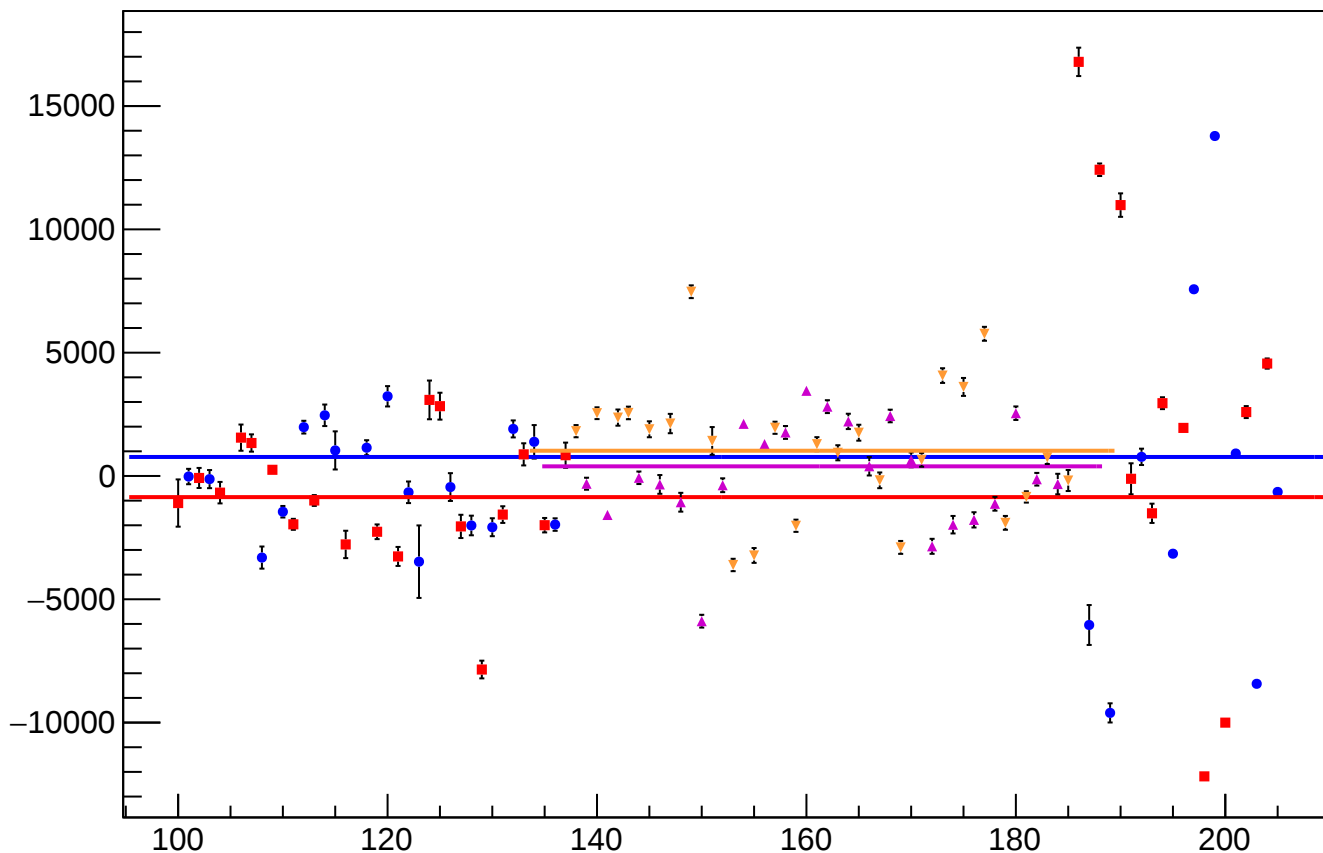
Right: 1.522 ± 0.001 χ^2/NDF : 48027812.1/55

In: 1.673 ± 0.001 χ^2/NDF : 57453028.1/48

Out: 1.651 ± 0.001 χ^2/NDF : 61207504.0/54

All: 1.661 ± 0.001 χ^2/NDF : 118660716.1/103

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 770.515 ± 55.810 $\chi^2/\text{NDF}: 10839.2/25$

Left Out: 1023.439 ± 57.338 $\chi^2/\text{NDF}: 2309.4/24$

Right Out: -857.455 ± 54.186 $\chi^2/\text{NDF}: 12630.4/29$

Left In: 390.237 ± 54.931 $\chi^2/\text{NDF}: 1584.9/22$

Left: 693.270 ± 39.666 $\chi^2/\text{NDF}: 3957.9/47$

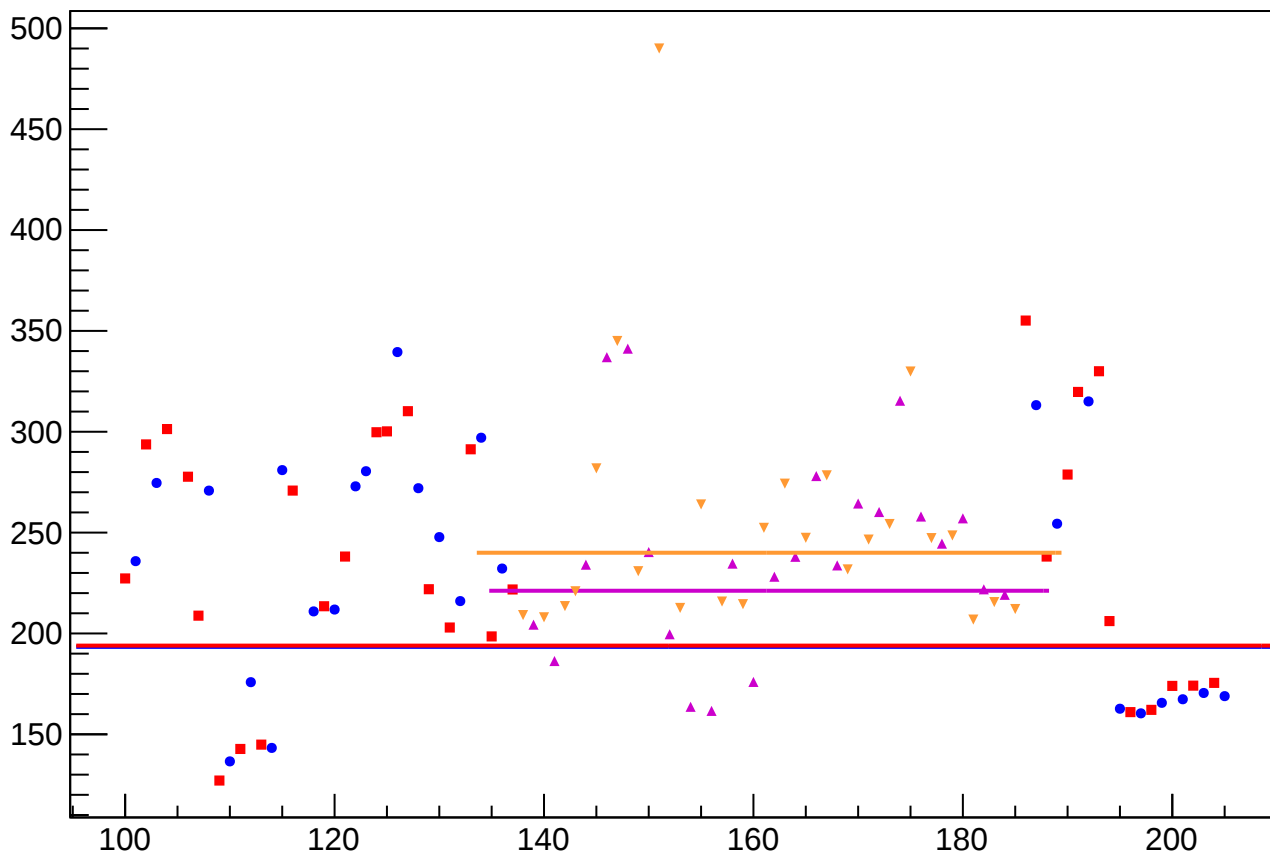
Right: -67.497 ± 38.877 $\chi^2/\text{NDF}: 23907.6/55$

In: 577.358 ± 39.149 $\chi^2/\text{NDF}: 12447.7/48$

Out: 29.882 ± 39.383 $\chi^2/\text{NDF}: 15508.2/54$

All: 305.247 ± 27.765 $\chi^2/\text{NDF}: 28053.1/103$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 193.351 ± 0.039 χ^2/NDF : 1450212.4/25

Left Out: 240.019 ± 0.041 χ^2/NDF : 1002427.9/24

Right Out: 193.972 ± 0.038 χ^2/NDF : 1978858.5/29

Left In: 221.173 ± 0.039 χ^2/NDF : 1342517.8/22

Left: 230.192 ± 0.028 χ^2/NDF : 2457612.6/47

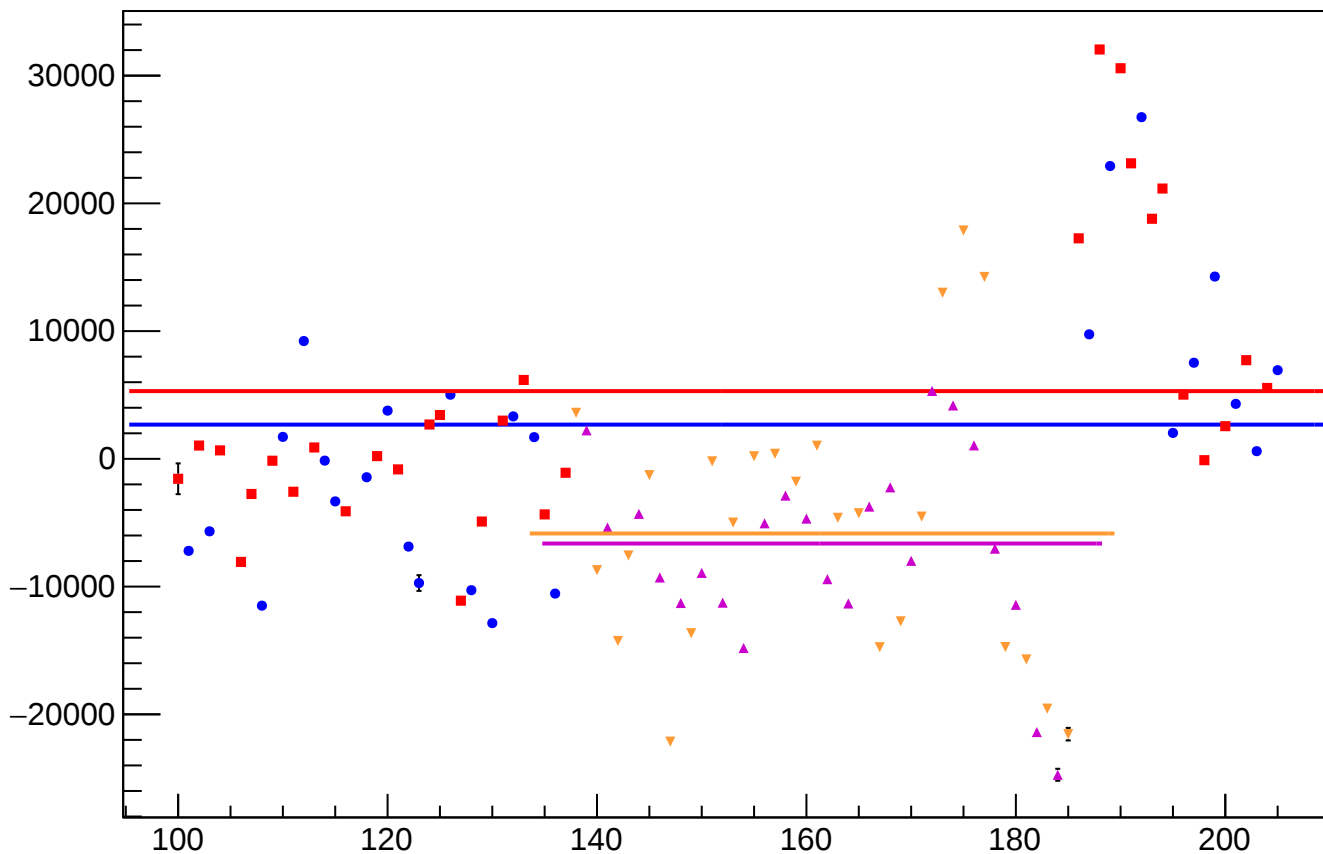
Right: 193.671 ± 0.027 χ^2/NDF : 3429198.5/55

In: 207.483 ± 0.028 χ^2/NDF : 3045189.2/48

Out: 215.695 ± 0.028 χ^2/NDF : 3662648.8/54

All: 211.565 ± 0.020 χ^2/NDF : 6751584.9/103

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2679.912 $\pm$ 37.306

χ^2 /NDF: 77967.2/25

Left Out: -5841.615 $\pm$ 35.848

χ^2 /NDF: 63397.3/24

Right Out: 5301.523 $\pm$ 35.149

χ^2 /NDF: 101429.3/29

Left In: -6628.388 $\pm$ 37.160

χ^2 /NDF: 21738.0/22

Left: -6220.862 $\pm$ 25.800

χ^2 /NDF: 85367.5/47

Right: 4068.686 $\pm$ 25.583

χ^2 /NDF: 182012.6/55

In: -1992.491 $\pm$ 26.328

χ^2 /NDF: 130955.3/48

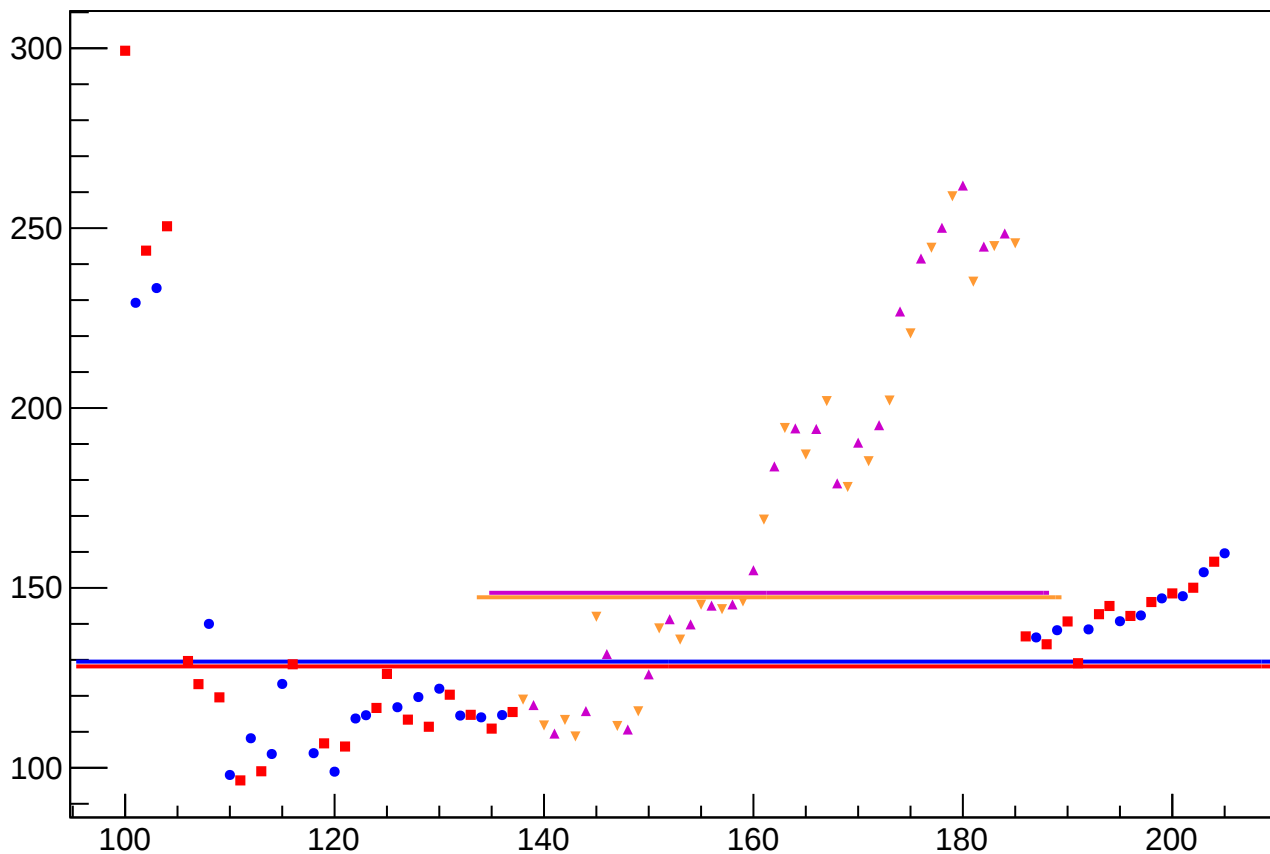
Out: -160.459 $\pm$ 25.098

χ^2 /NDF: 214089.8/54

All: -1032.679 $\pm$ 18.166

χ^2 /NDF: 347581.9/100

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.519+/-0.026 χ^2/NDF : 924292.3/25

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 128.180+/-0.025 χ^2/NDF : 998753.8/29

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

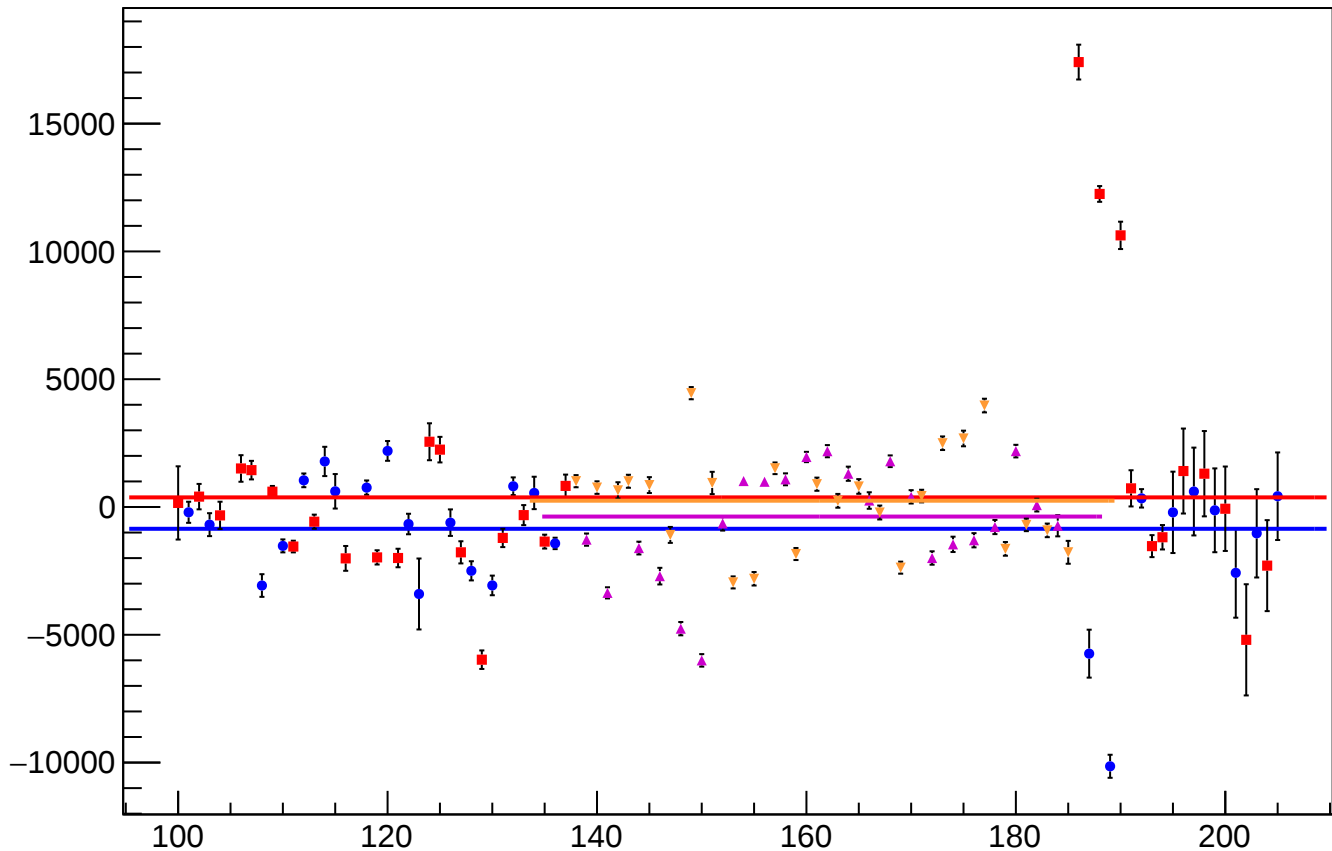
Right: 128.810+/-0.018 χ^2/NDF : 1924410.2/55

In: 139.118+/-0.019 χ^2/NDF : 3603610.5/48

Out: 137.599+/-0.018 χ^2/NDF : 3808840.6/54

All: 138.322+/-0.013 χ^2/NDF : 7415938.0/103

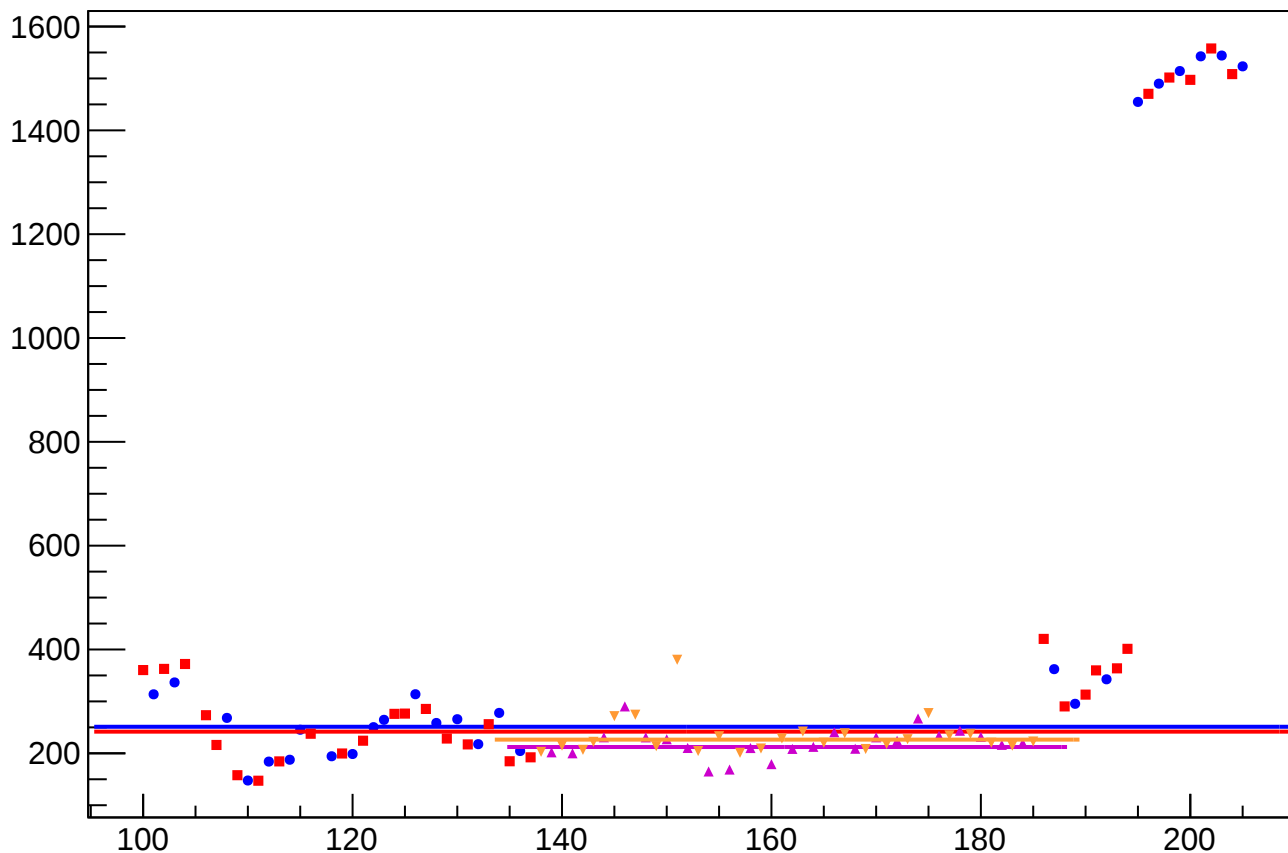
asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -853.136 ± 84.221 $\chi^2/\text{NDF}: 762.0/25$
 Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$
 Right Out: 376.092 ± 75.096 $\chi^2/\text{NDF}: 3169.7/29$
 Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$
 Right: -168.346 ± 56.051 $\chi^2/\text{NDF}: 4050.3/55$
 In: -506.180 ± 44.180 $\chi^2/\text{NDF}: 2583.7/48$
 Out: 289.868 ± 43.569 $\chi^2/\text{NDF}: 4526.5/54$
 All: -102.614 ± 31.021 $\chi^2/\text{NDF}: 7274.8/103$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 251.141 $\pm$ 0.060 χ^2 /NDF: 7716364.2/25

Left Out: 226.376 $\pm$ 0.038 χ^2 /NDF: 521770.1/24

Right Out: 241.742 $\pm$ 0.053 χ^2 /NDF: 6981457.3/29

Left In: 212.145 $\pm$ 0.037 χ^2 /NDF: 591698.6/22

Left: 219.044 $\pm$ 0.026 χ^2 /NDF: 1186390.8/47

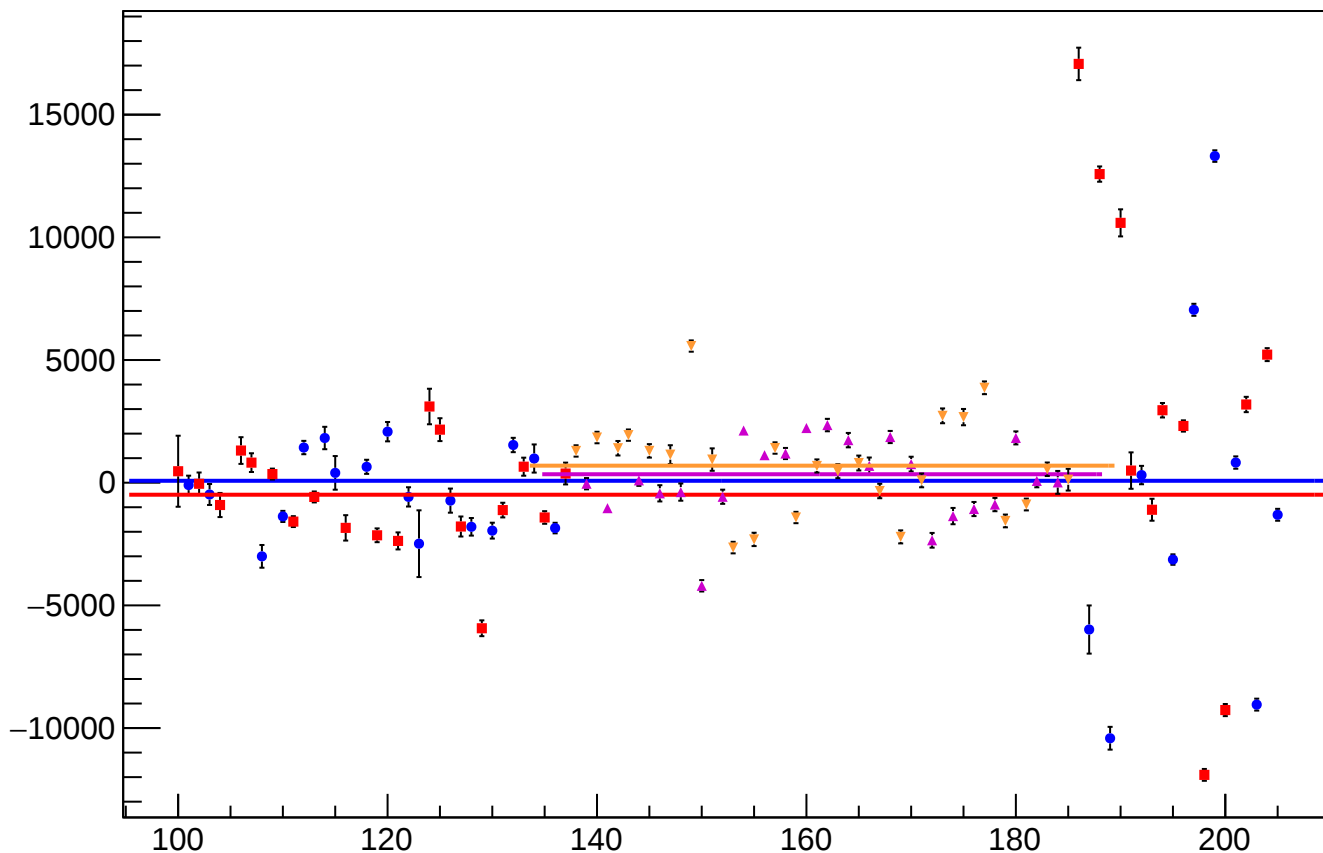
Right: 245.905 $\pm$ 0.040 χ^2 /NDF: 14711697.2/55

In: 222.875 $\pm$ 0.031 χ^2 /NDF: 8618854.4/48

Out: 231.548 $\pm$ 0.031 χ^2 /NDF: 7558784.6/54

All: 227.272 $\pm$ 0.022 χ^2 /NDF: 16216710.1/100

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 77.916+/-62.089 χ^2/NDF : 6536.0/25

Left Out: 694.326+/-54.246 χ^2/NDF :1422.1/24

Right Out: -489.959+/-60.098 χ^2/NDF : 7773.7/29

Left In: 344.578+/-52.954 χ^2/NDF :985.0/22

Left: 515.236+/-37.893 χ^2/NDF : 2428.4/47

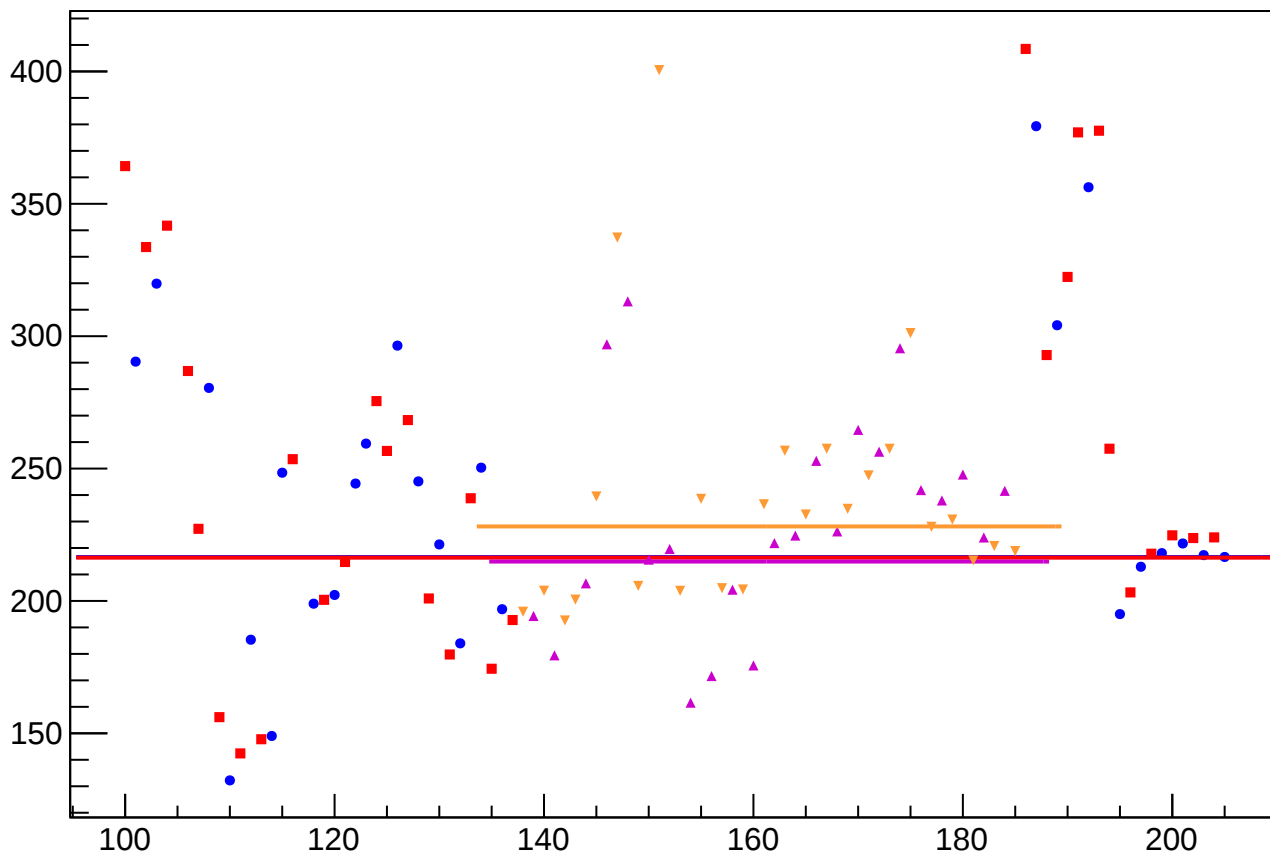
Right: -215.271+/-43.182 χ^2/NDF : 14352.9/55

In: 232.287+/-40.290 χ^2/NDF :7531.7/48

Out: 162.630+/-40.268 χ^2/NDF :9409.8/54

All: 197.439+/-28.482 χ^2/NDF : 16943.0/103

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.560 ± 0.044 $\chi^2/\text{NDF}: 1143829.6/25$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 216.364 ± 0.042 $\chi^2/\text{NDF}: 1819584.3/29$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

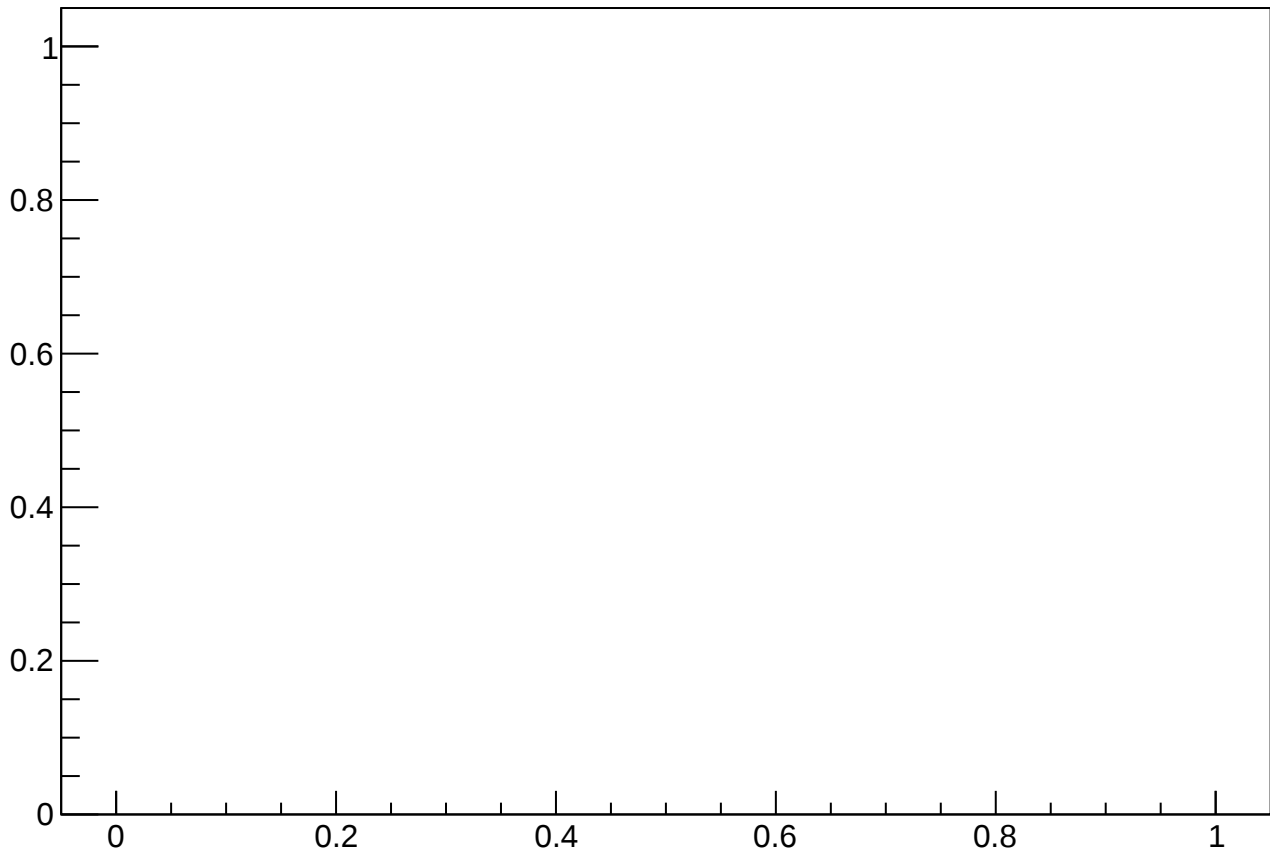
Right: 216.459 ± 0.031 $\chi^2/\text{NDF}: 2963424.1/55$

In: 215.586 ± 0.028 $\chi^2/\text{NDF}: 2182188.3/48$

Out: 222.855 ± 0.028 $\chi^2/\text{NDF}: 2690323.0/54$

All: 219.223 ± 0.020 $\chi^2/\text{NDF}: 4905078.8/103$

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_an_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

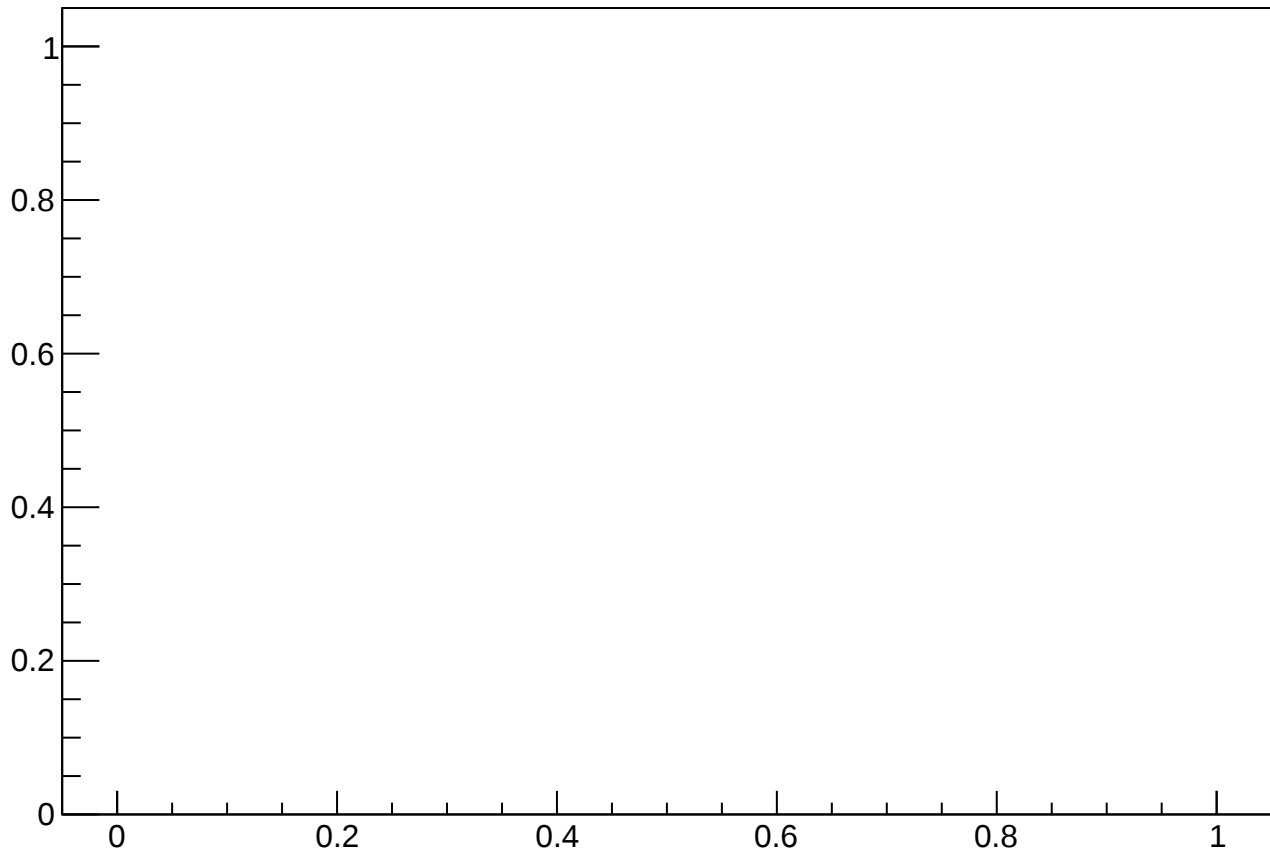
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

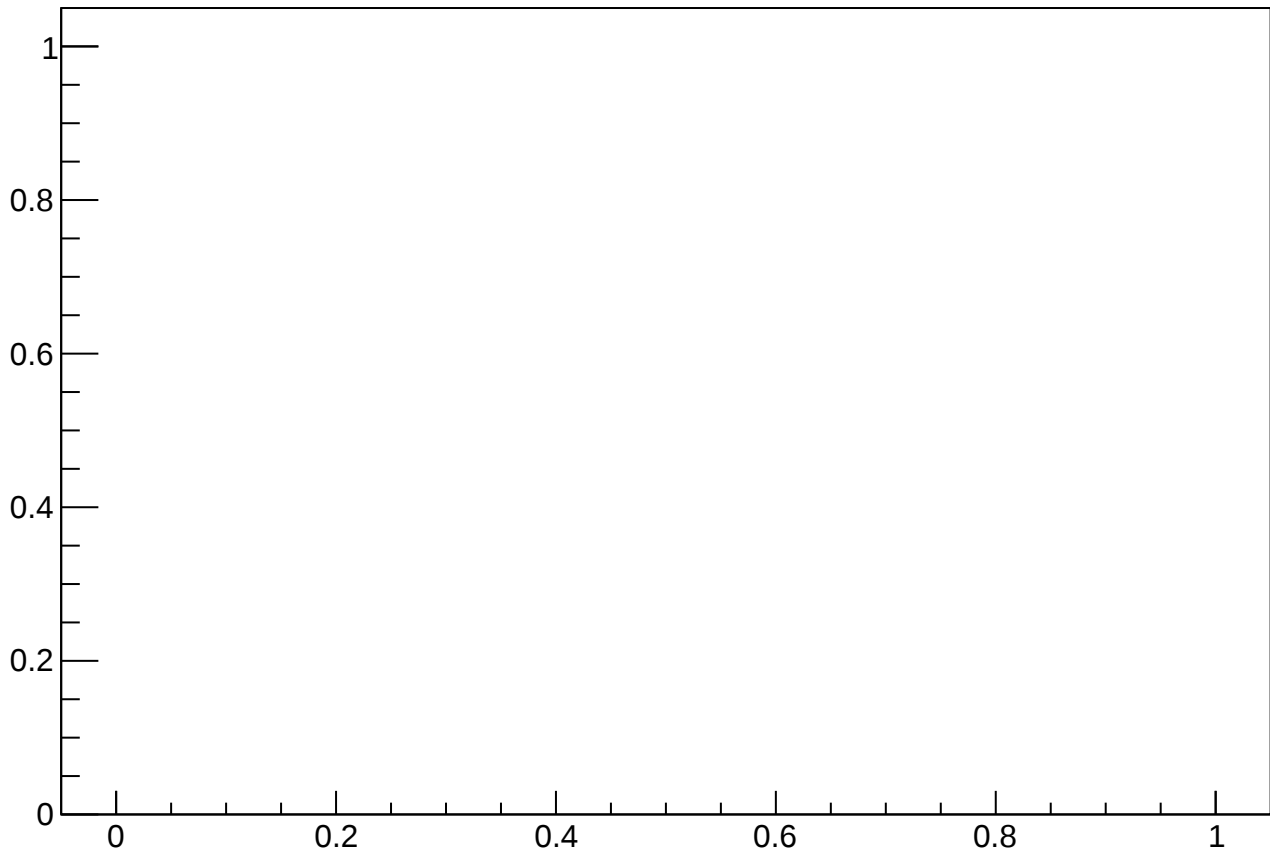
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

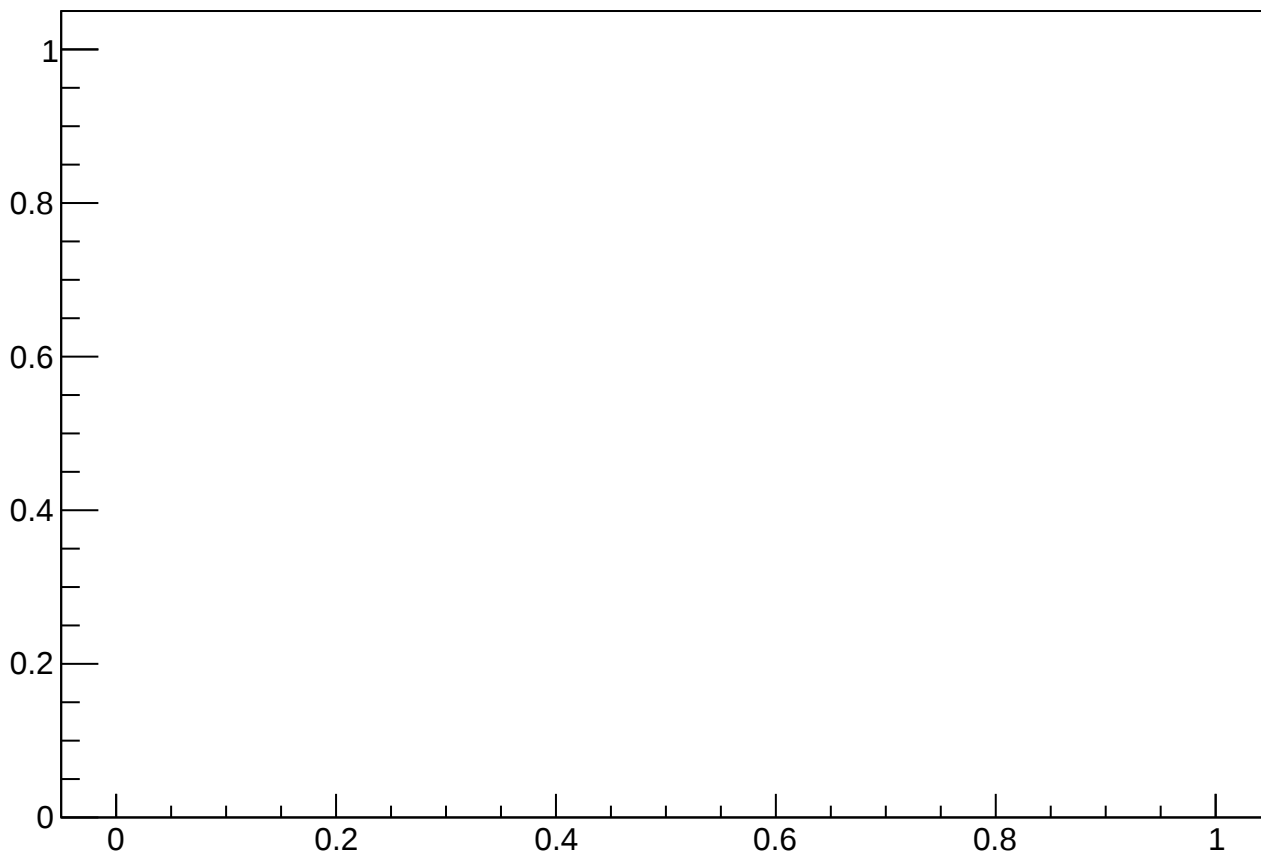
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

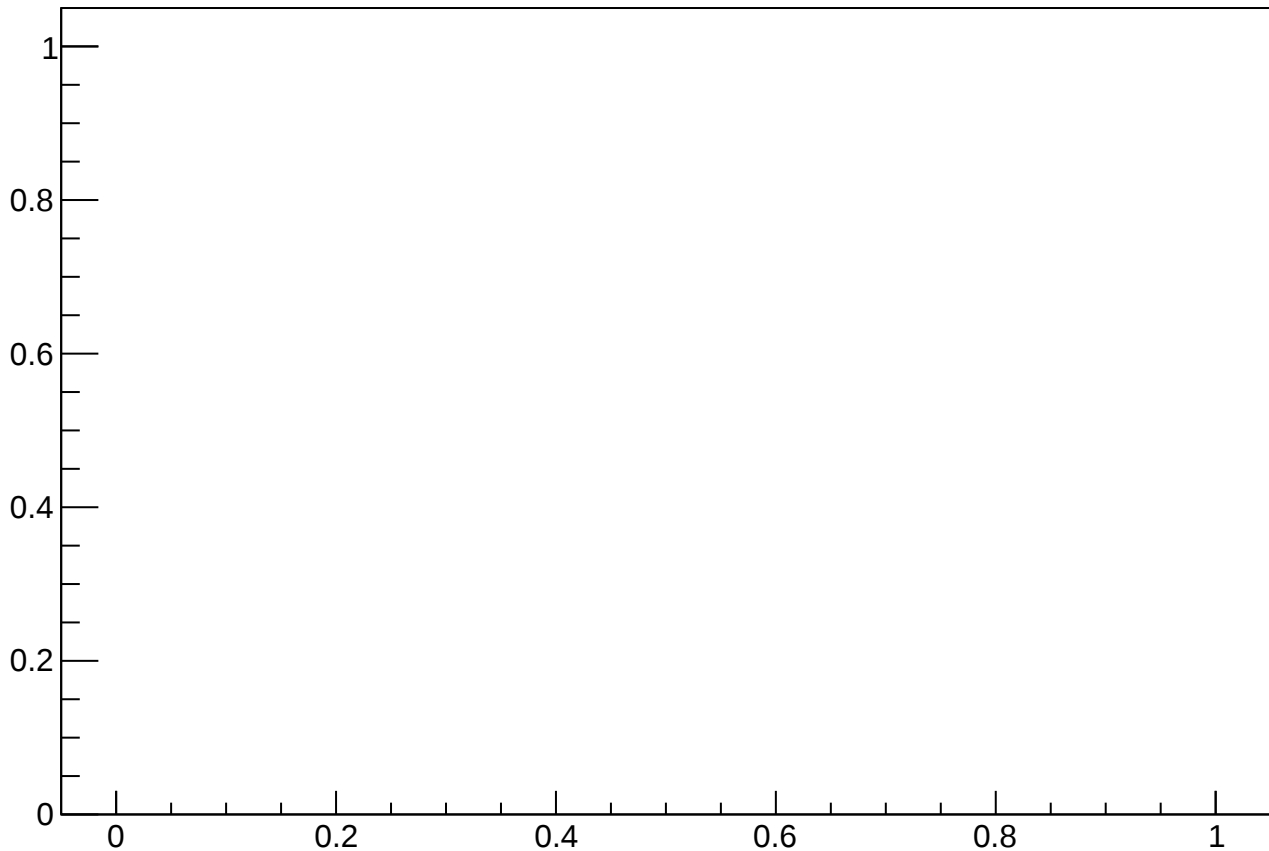
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

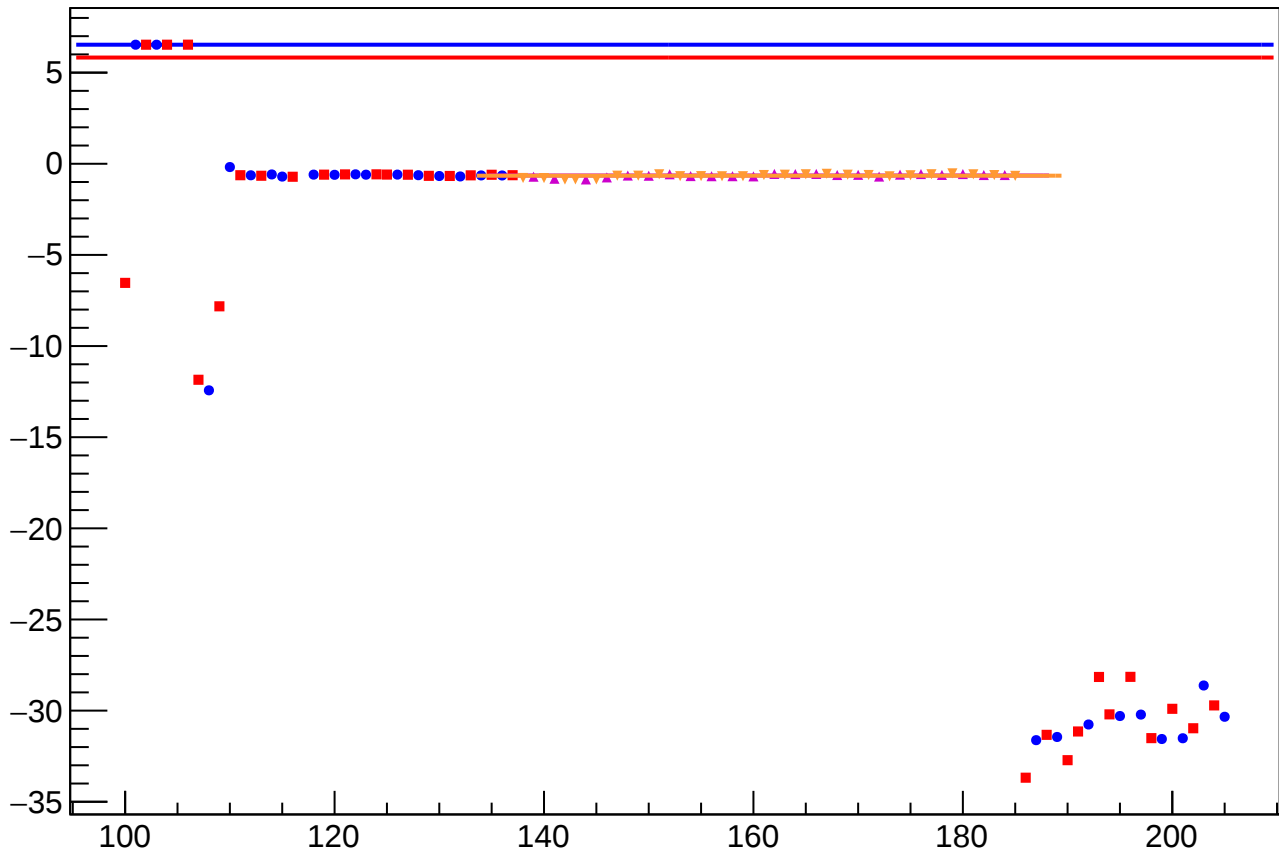
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 128036096043.8/25

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755962385560825.8/29

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

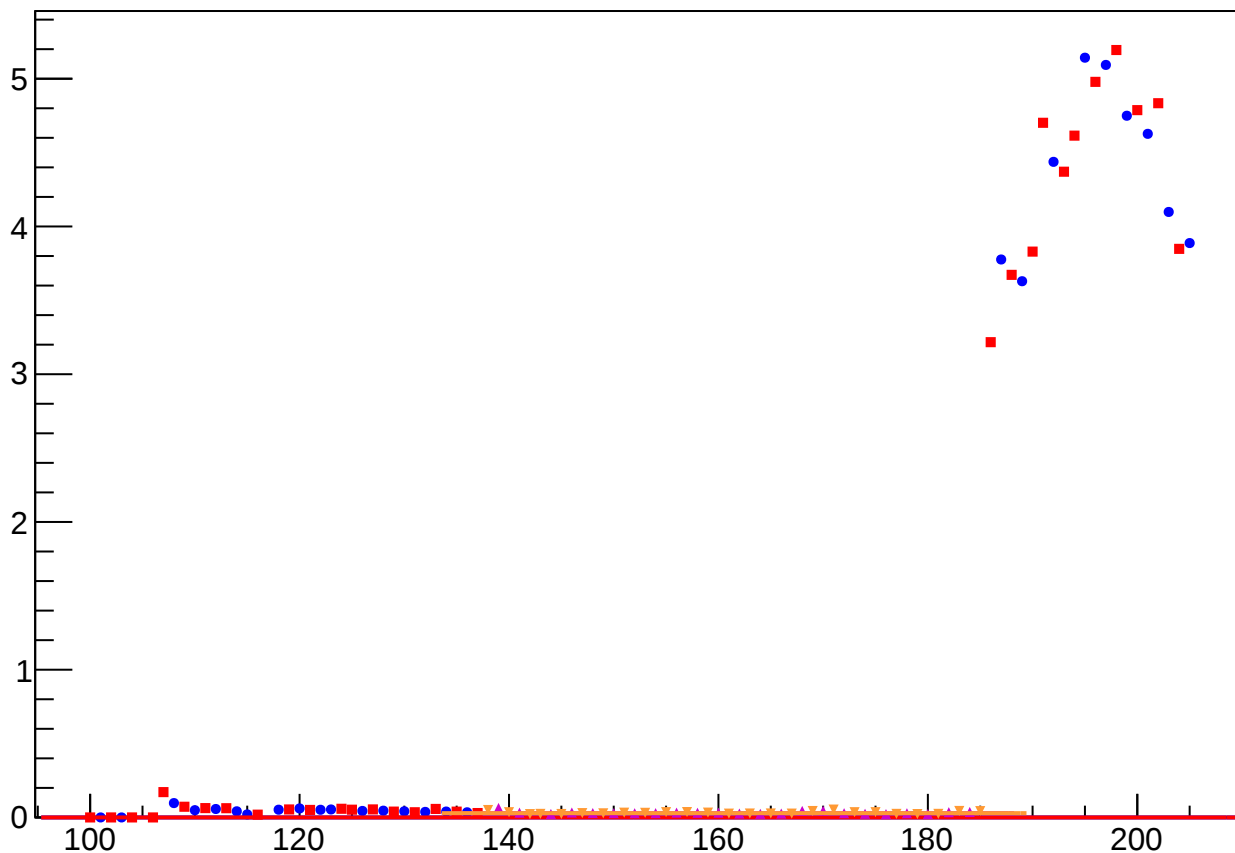
Right: 6.155+/-0.000 χ^2/NDF : 776094384614571.2/47

In: 6.530+/-0.000 χ^2/NDF : 962154671239.8/48

Out: 5.826+/-0.000 χ^2/NDF : 7566734024444883.6/50

All: 6.153+/-0.000 χ^2/NDF : 77762781647824.0/97

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 21129244.1/25

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23149482.6/29

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

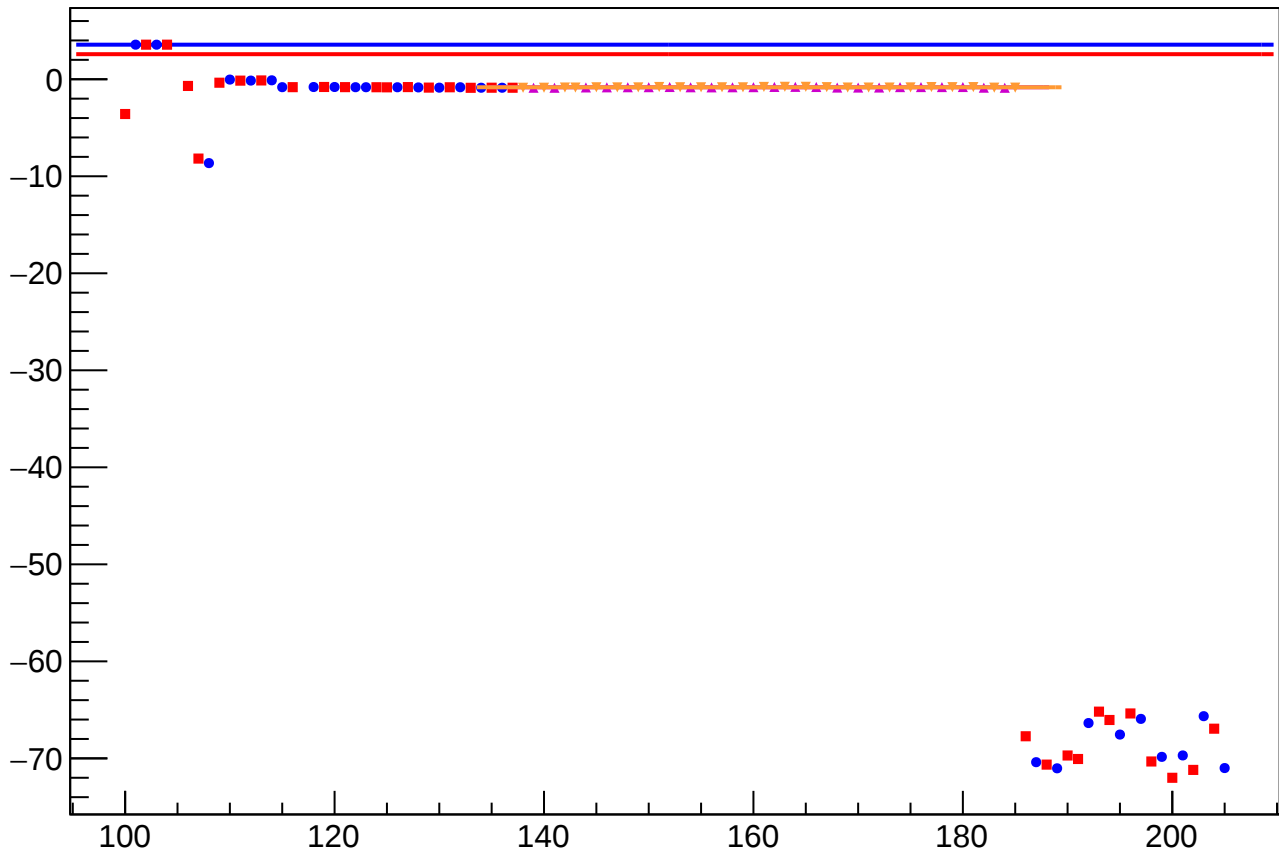
Right: 0.000+/-0.000 χ^2/NDF : 44278975.0/55

In: 0.000+/-0.000 χ^2/NDF :49307035.3/48

Out: 0.000+/-0.000 χ^2/NDF :53117512.3/54

All: 0.000+/-0.000 χ^2/NDF : 102424974.0/103

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 502805309674.3/25

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253526729506367.5/29

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

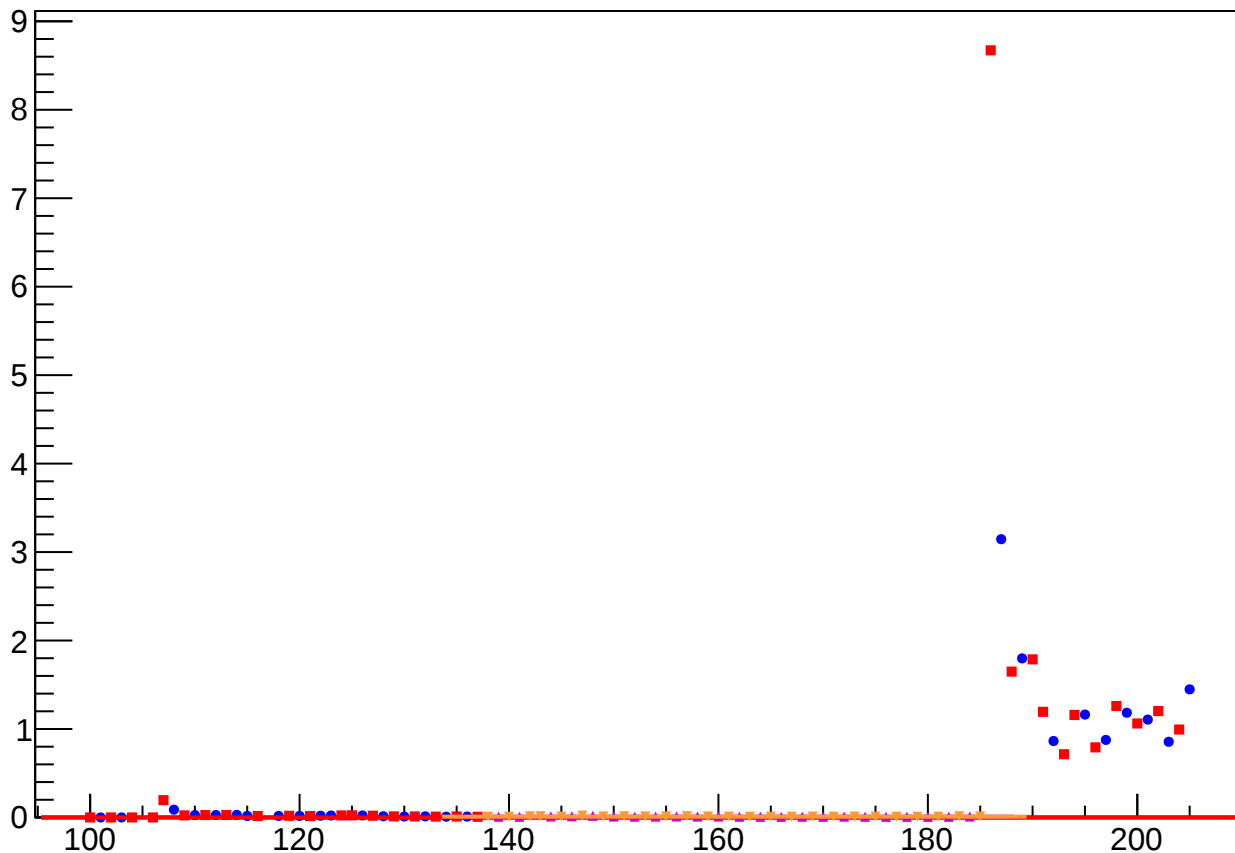
Right: 3.040+/-0.000 χ^2/NDF : 1382300636815380.9

In: 3.560+/-0.000 χ^2/NDF : 4183365508014.2/48

Out: 2.581+/-0.000 χ^2/NDF : 1255757630065084.2

All: 3.038+/-0.000 χ^2/NDF : 13880251968350

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19834526.1/25

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 21598322.8/29

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

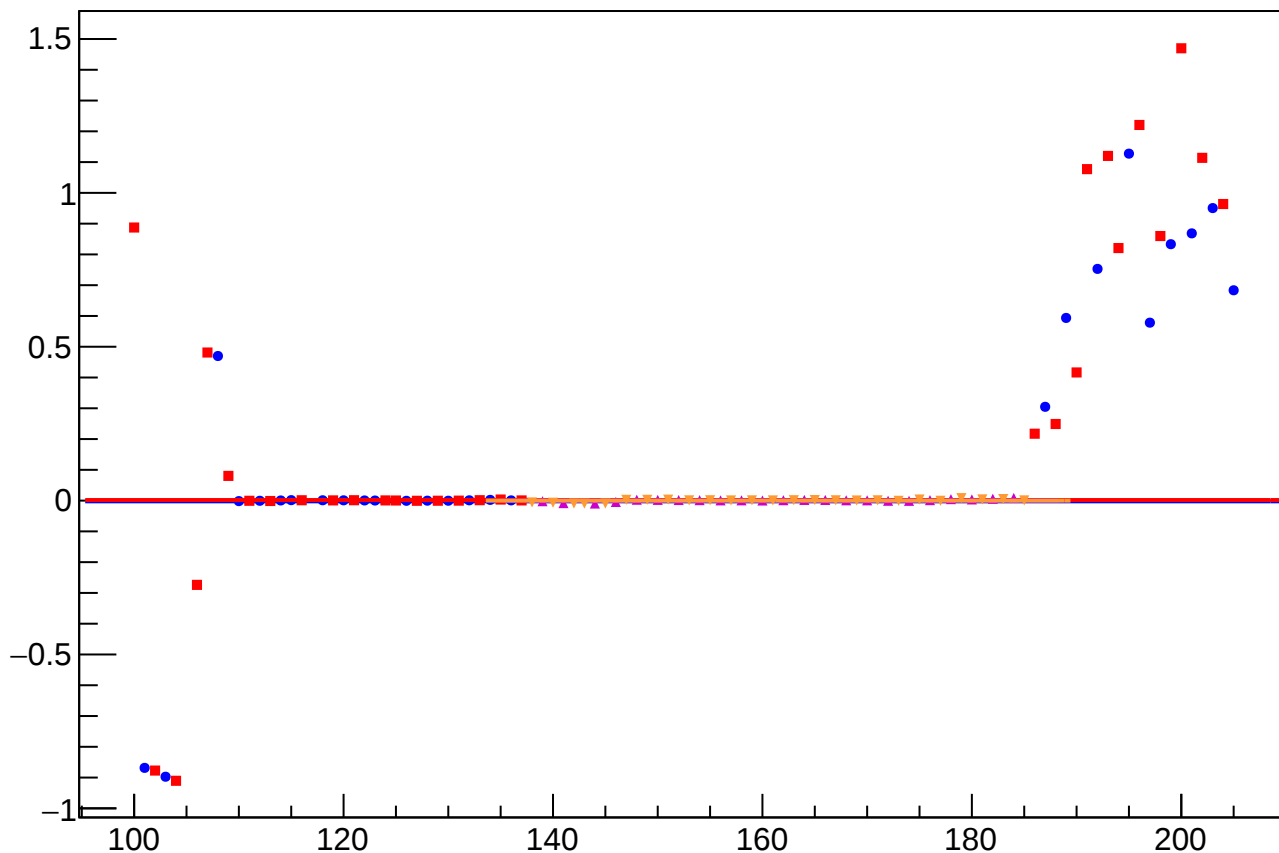
Right: 0.000+/-0.000 χ^2/NDF : 41433123.4/55

In: 0.000+/-0.000 χ^2/NDF :49631645.0/48

Out: 0.000+/-0.000 χ^2/NDF :53116443.1/54

All: 0.000+/-0.000 χ^2/NDF : 102748867.5/103

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796394005.6/25

Left: 0.000+/-0.000 χ^2/NDF : 254489625.0/47

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right: -0.000+/-0.000 χ^2/NDF : 12854112340.4/55

Right Out: 0.002+/-0.000

χ^2/NDF : 3043570700.1/29

In: -0.000+/-0.000 χ^2/NDF : 9909301903.8/48

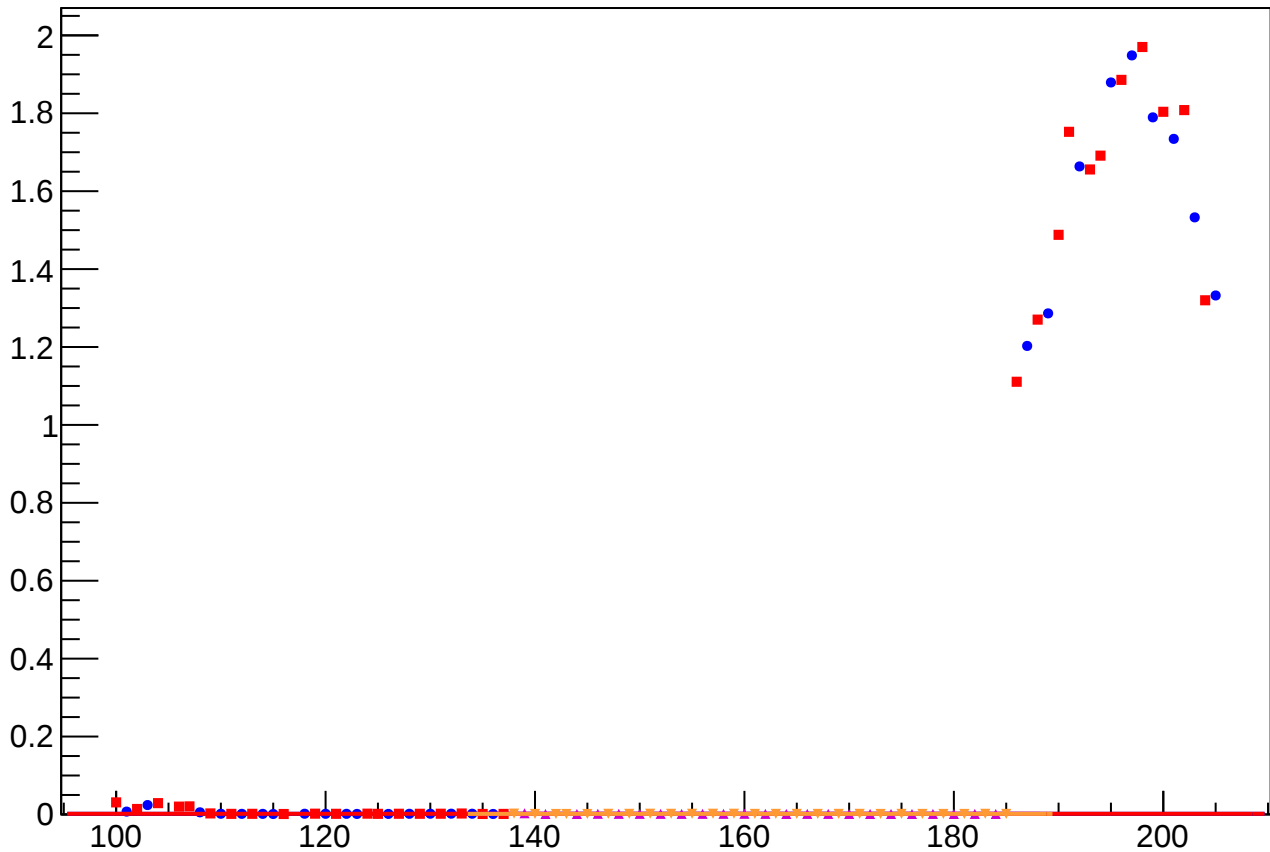
Out: 0.000+/-0.000 χ^2/NDF : 3199808080.2/54

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

All: 0.000+/-0.000 χ^2/NDF : 13109481494.8/1

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 14164136.4/25

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 16806340.5/29

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

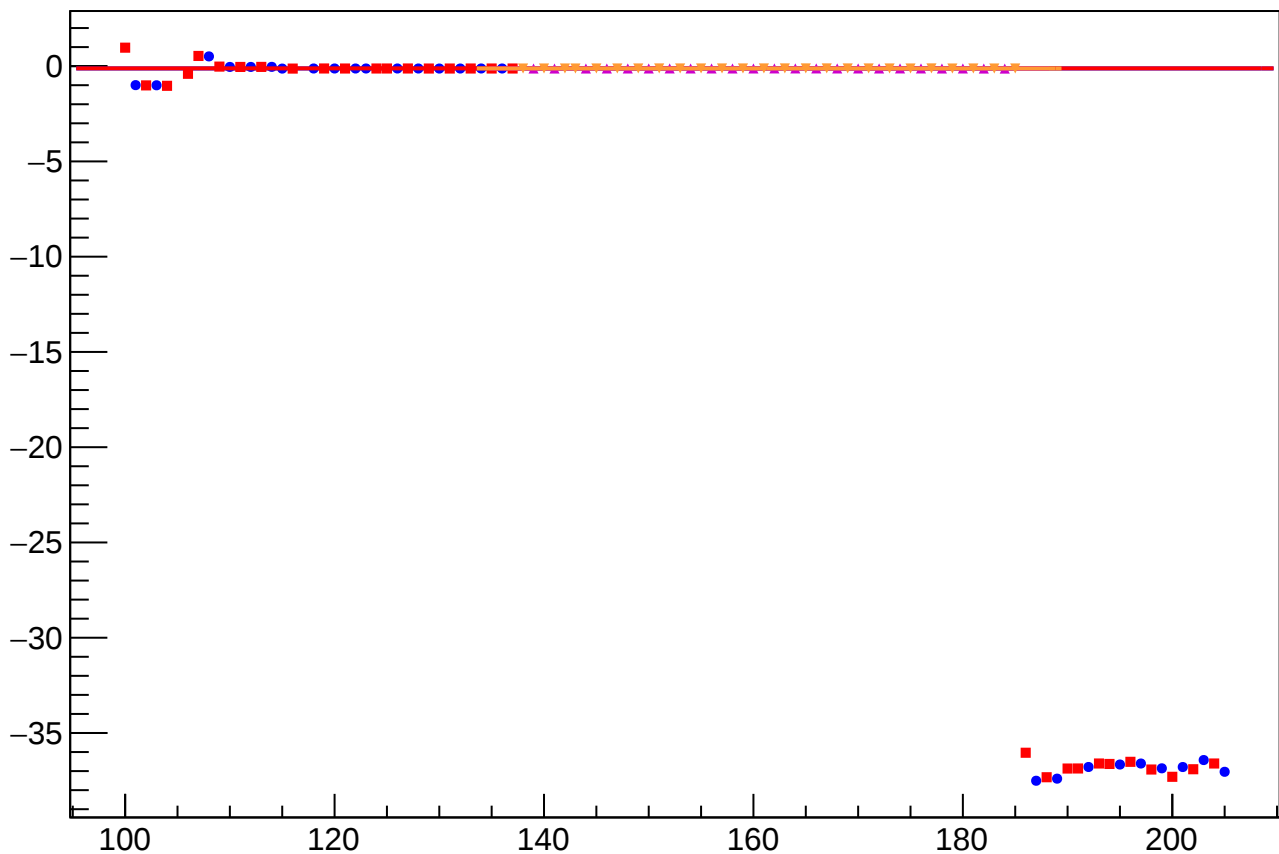
Right: 0.002+/-0.000 χ^2/NDF : 30978437.8/55

In: 0.002+/-0.000 χ^2/NDF :14876335.0/48

Out: 0.002+/-0.000 χ^2/NDF :17481591.5/54

All: 0.002+/-0.000 χ^2/NDF : 32358557.1/103

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 57370203601.4/25

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.116+/-0.000 χ^2/NDF : 59986649327.4/29

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

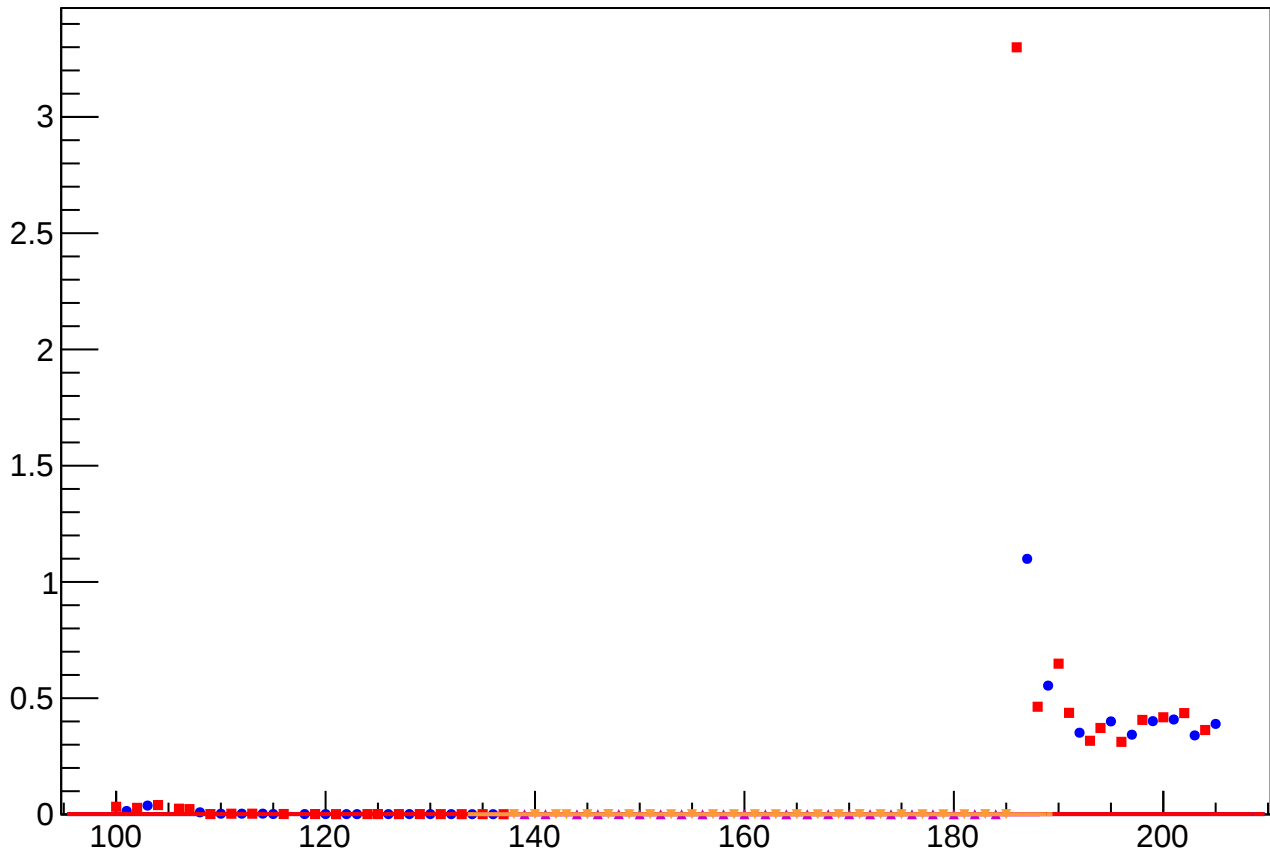
Right: -0.119+/-0.000 χ^2/NDF : 117379165266.2/55

In: -0.121+/-0.000 χ^2/NDF : 57423389103.9/48

Out: -0.121+/-0.000 χ^2/NDF : 60085357174.7/54

All: -0.121+/-0.000 χ^2/NDF : 117509695297.0

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 14595627.1/25

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 16793895.5/29

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

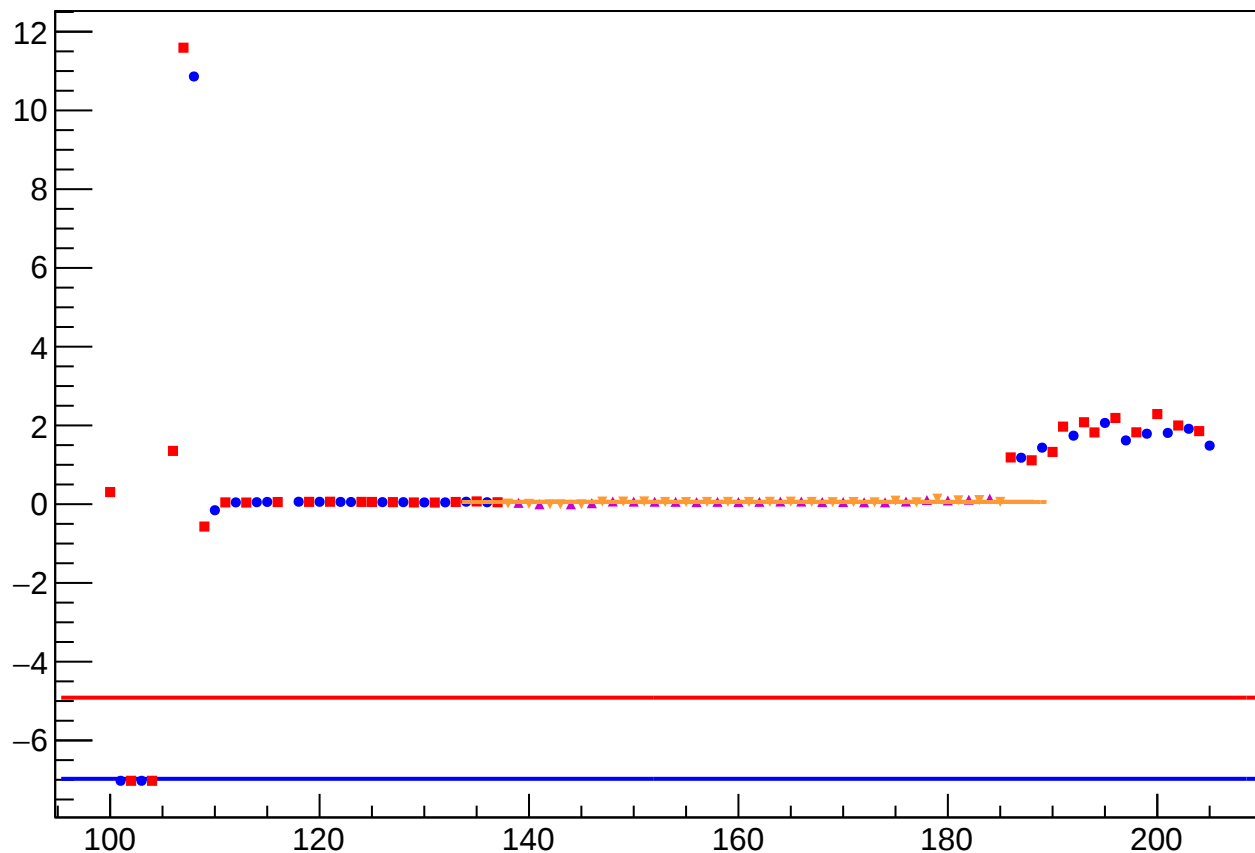
Right: 0.002+/-0.000 χ^2/NDF : 31389564.9/55

In: 0.001+/-0.000 χ^2/NDF :16717260.0/48

Out: 0.001+/-0.000 χ^2/NDF :19332101.6/54

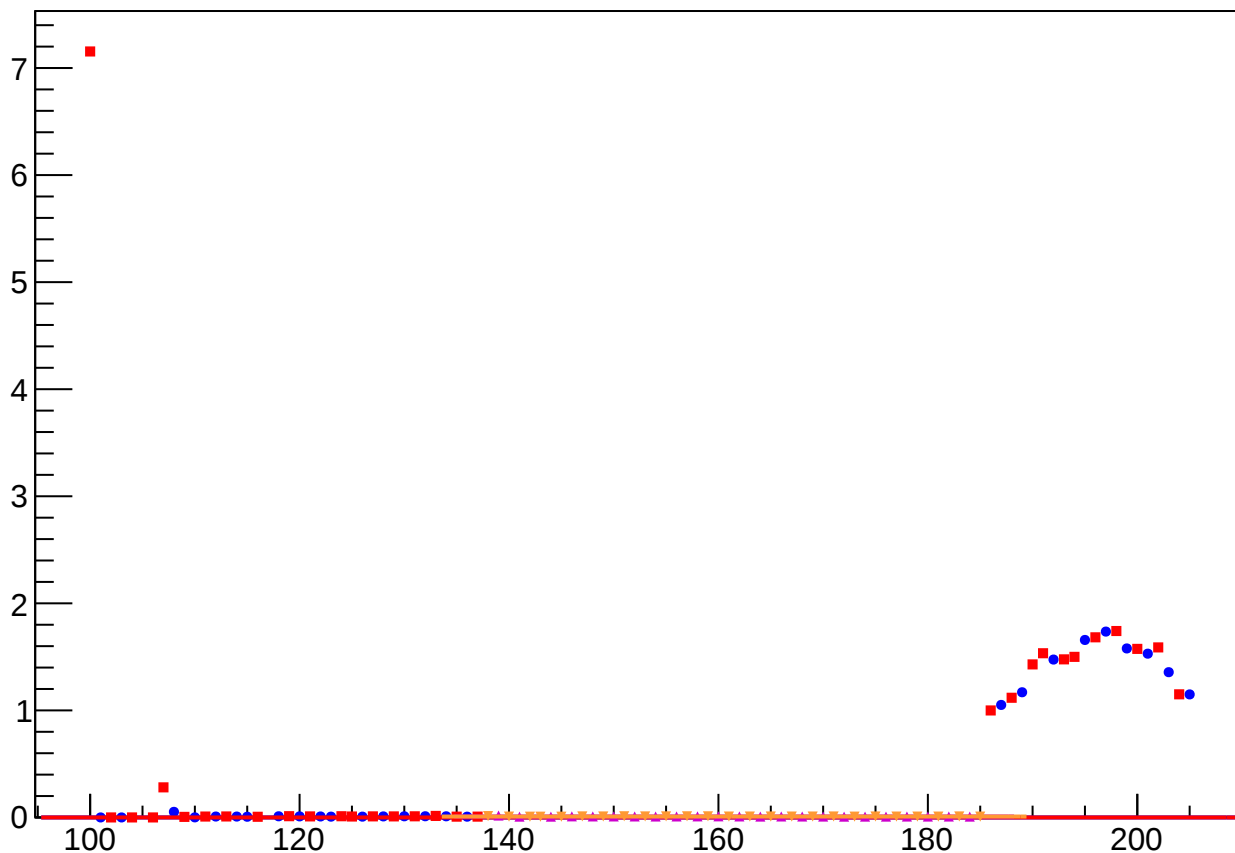
All: 0.001+/-0.000 χ^2/NDF : 36051496.3/103

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762677947672.5/25$ 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 $\chi^2/\text{NDF}: 430303574927888.1$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348691877174.2/29$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605204270248.0/48$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175378402255.8/$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435815382785$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20491396.2/25

Left Out: 0.009+/-0.000 χ^2/NDF :513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 22561612.9/29

Left In: 0.009+/-0.000 χ^2/NDF :636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

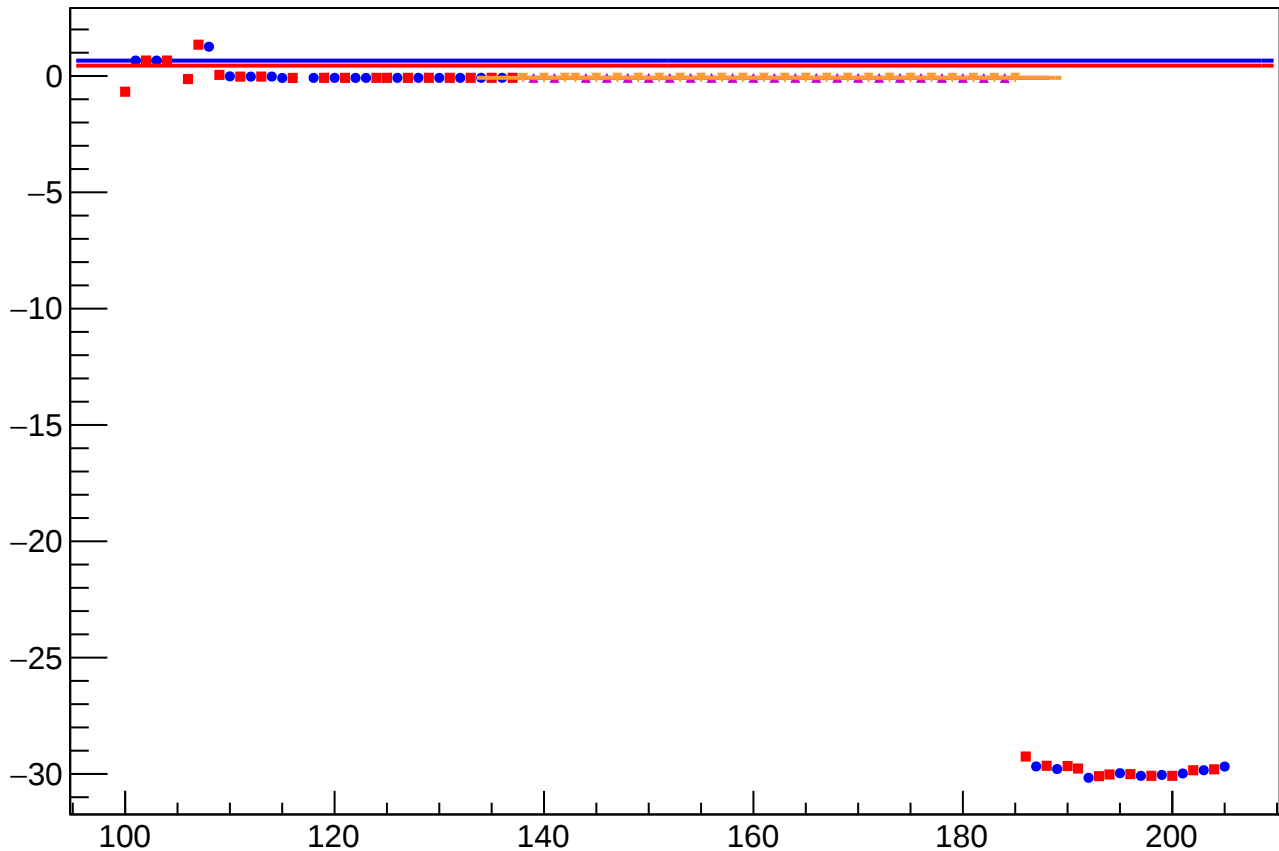
Right: 0.000+/-0.000 χ^2/NDF : 43053315.8/55

In: 0.000+/-0.000 χ^2/NDF :48127982.2/48

Out: 0.000+/-0.000 χ^2/NDF :51589543.2/54

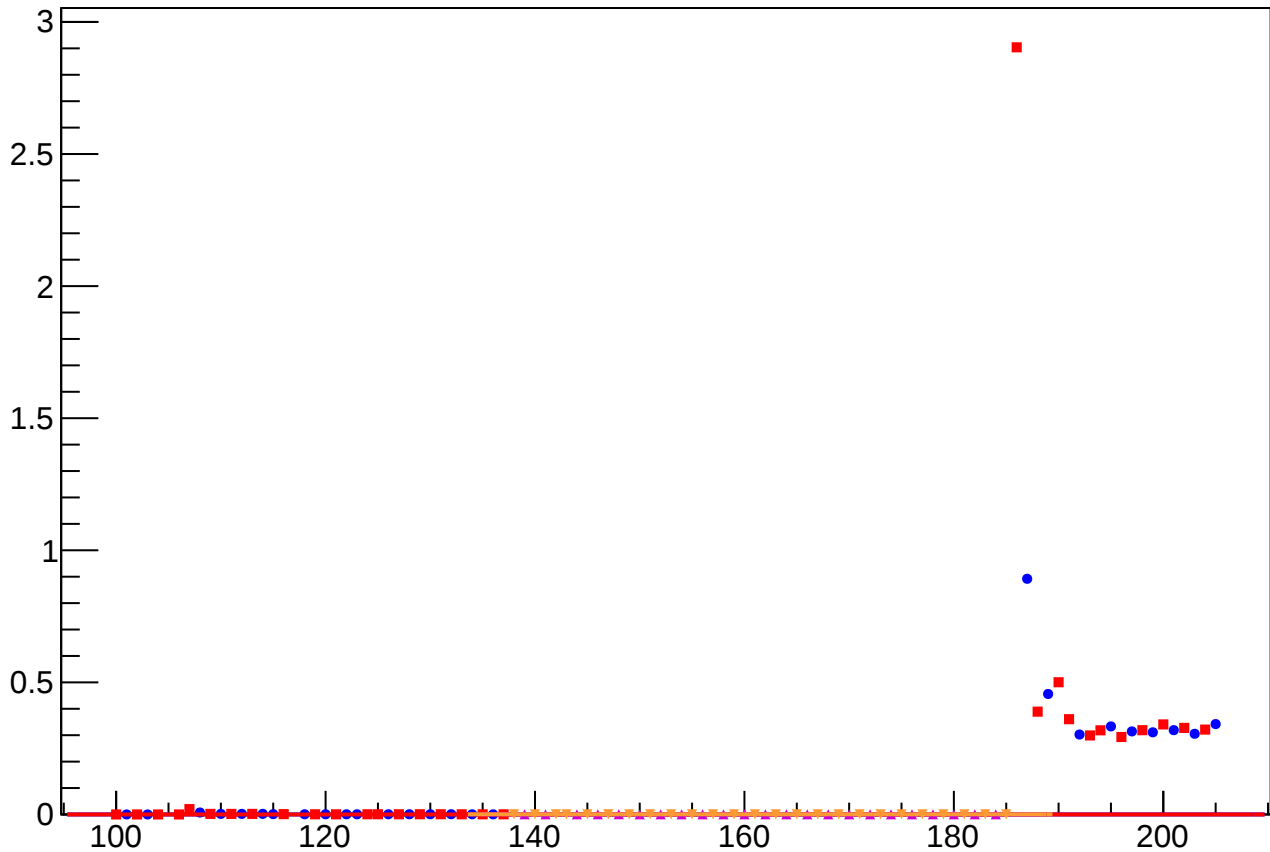
All: 0.000+/-0.000 χ^2/NDF : 99718015.5/103

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5638612811685.2/25	Left: -0.078+/-0.000	χ^2/NDF : 267788024.6/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156525648.0/24	Right: 0.549+/-0.000	χ^2/NDF : 474039529478849.8
Right Out: 0.446+/-0.000	χ^2/NDF : 405471724743346.2/29	In: 0.647+/-0.000	χ^2/NDF : 33898553121687.5/48
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420666295068515.3/5
		All: 0.537+/-0.000	χ^2/NDF : 51608950111862

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 21955468.1/25

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23104447.1/29

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

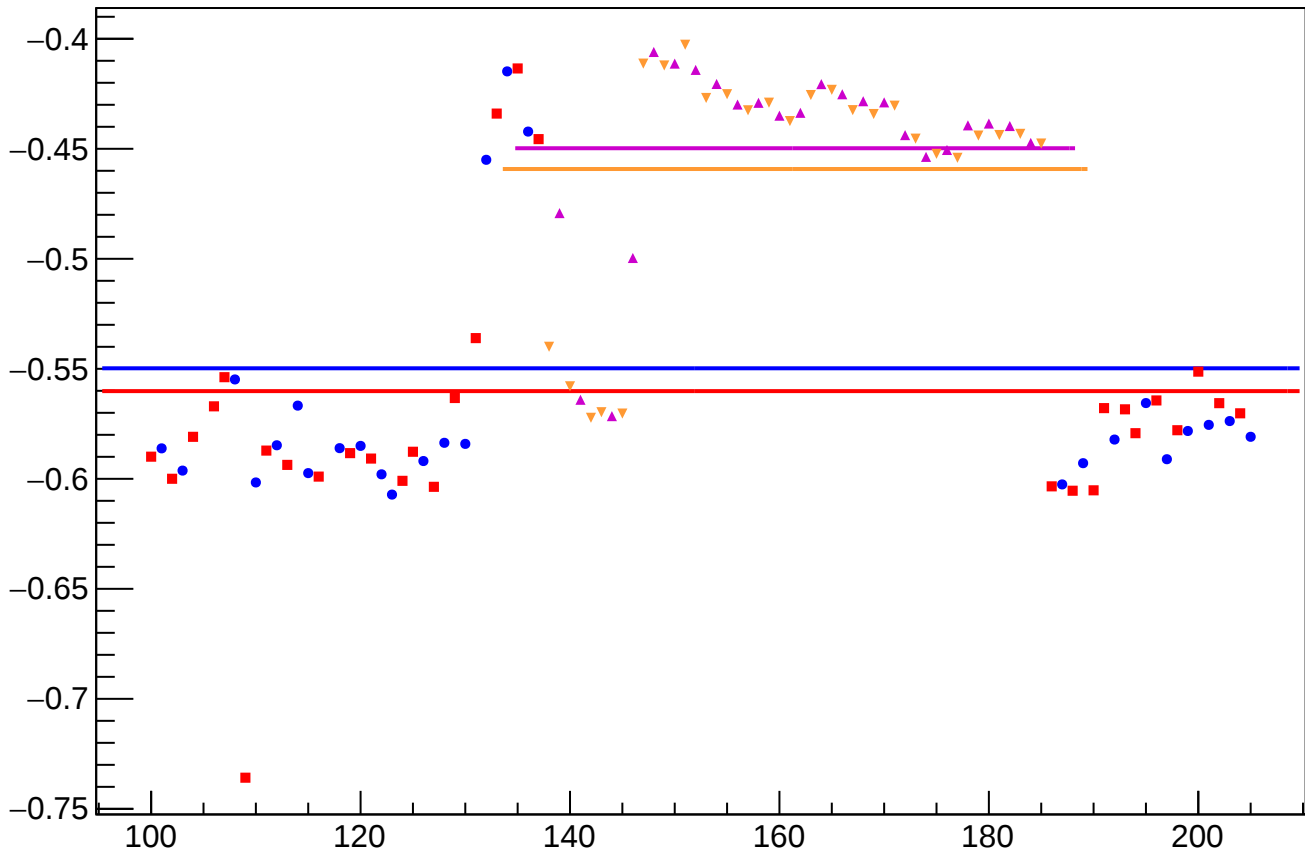
Right: 0.000+/-0.000 χ^2/NDF : 45059921.7/55

In: 0.000+/-0.000 χ^2/NDF :52933715.9/48

Out: 0.000+/-0.000 χ^2/NDF :55818225.2/54

All: 0.000+/-0.000 χ^2/NDF : 108752340.8/103

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.550+/-0.000 χ^2/NDF : 48073733.6/25

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.560+/-0.000 χ^2/NDF : 65324359.2/29

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

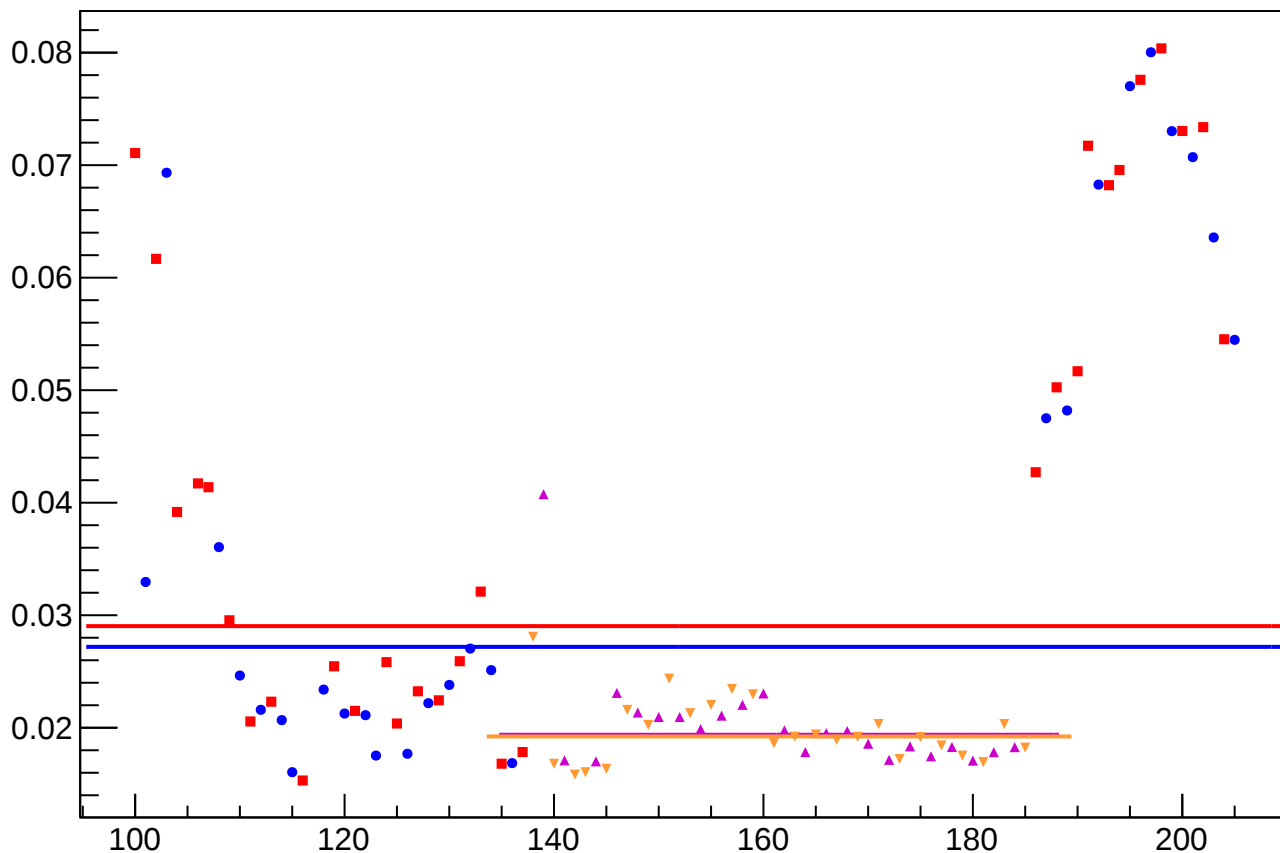
Right: -0.555+/-0.000 χ^2/NDF : 114027708.0/55

In: -0.474+/-0.000 χ^2/NDF : 214080470.6/48

Out: -0.482+/-0.000 χ^2/NDF : 270782003.3/54

All: -0.478+/-0.000 χ^2/NDF : 486470926.7/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 5816928.8/25

Left Out: 0.019+/-0.000 χ^2/NDF :501253.7/24

Right Out: 0.029+/-0.000 χ^2/NDF : 6040190.7/29

Left In: 0.019+/-0.000 χ^2/NDF :656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

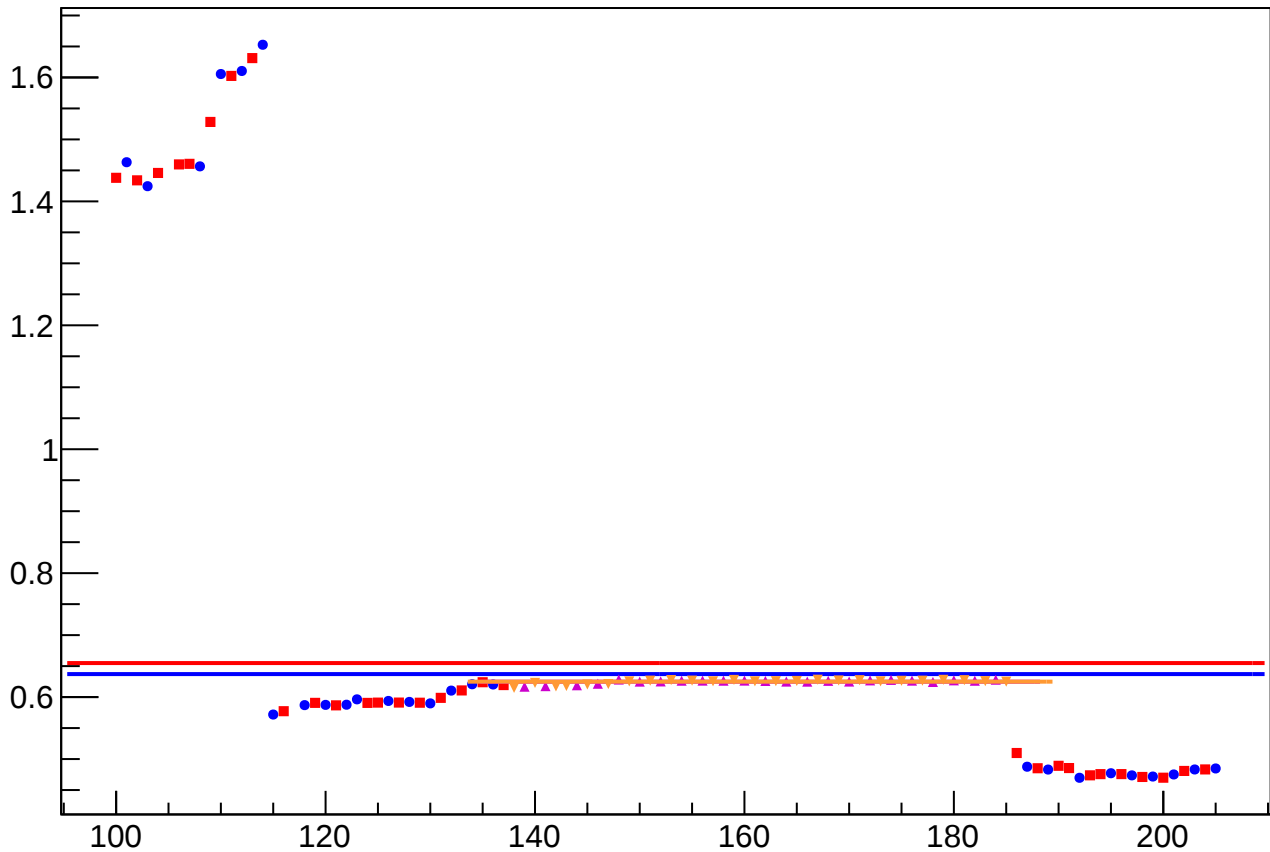
Right: 0.028+/-0.000 χ^2/NDF : 11896907.2/55

In: 0.021+/-0.000 χ^2/NDF :7569344.1/48

Out: 0.021+/-0.000 χ^2/NDF :8271376.9/54

All: 0.021+/-0.000 χ^2/NDF : 15842082.6/103

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.637 $\pm$ 0.000 χ^2 /NDF: 4929050703.8/25

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.655 $\pm$ 0.000 χ^2 /NDF: 5937281902.9/29

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

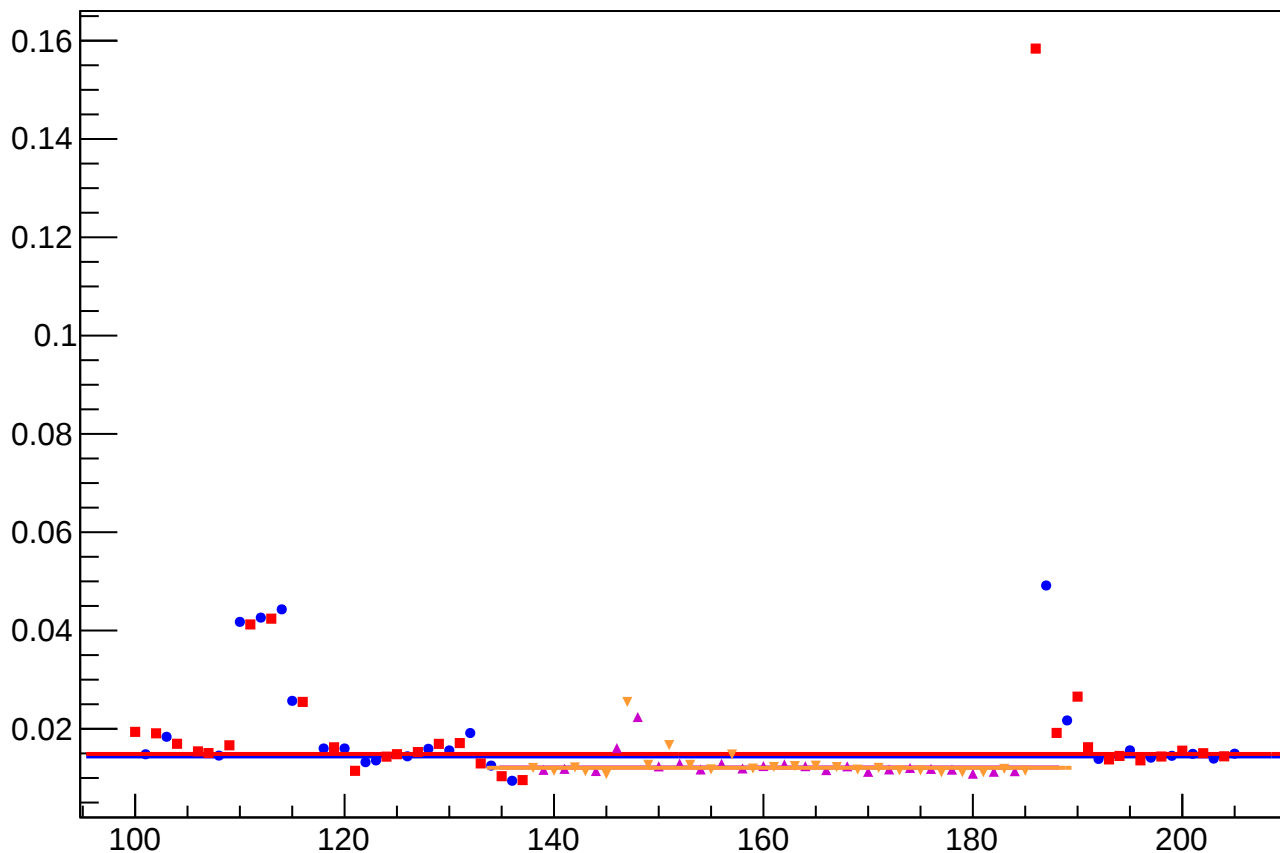
Right: 0.646 $\pm$ 0.000 χ^2 /NDF: 10875155147.6/55

In: 0.629 $\pm$ 0.000 χ^2 /NDF:4935834063.6/48

Out: 0.634 $\pm$ 0.000 χ^2 /NDF:5973177603.7/54

All: 0.632 $\pm$ 0.000 χ^2 /NDF: 10911643493.2/100

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1645470.6/25

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2073748.1/29

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

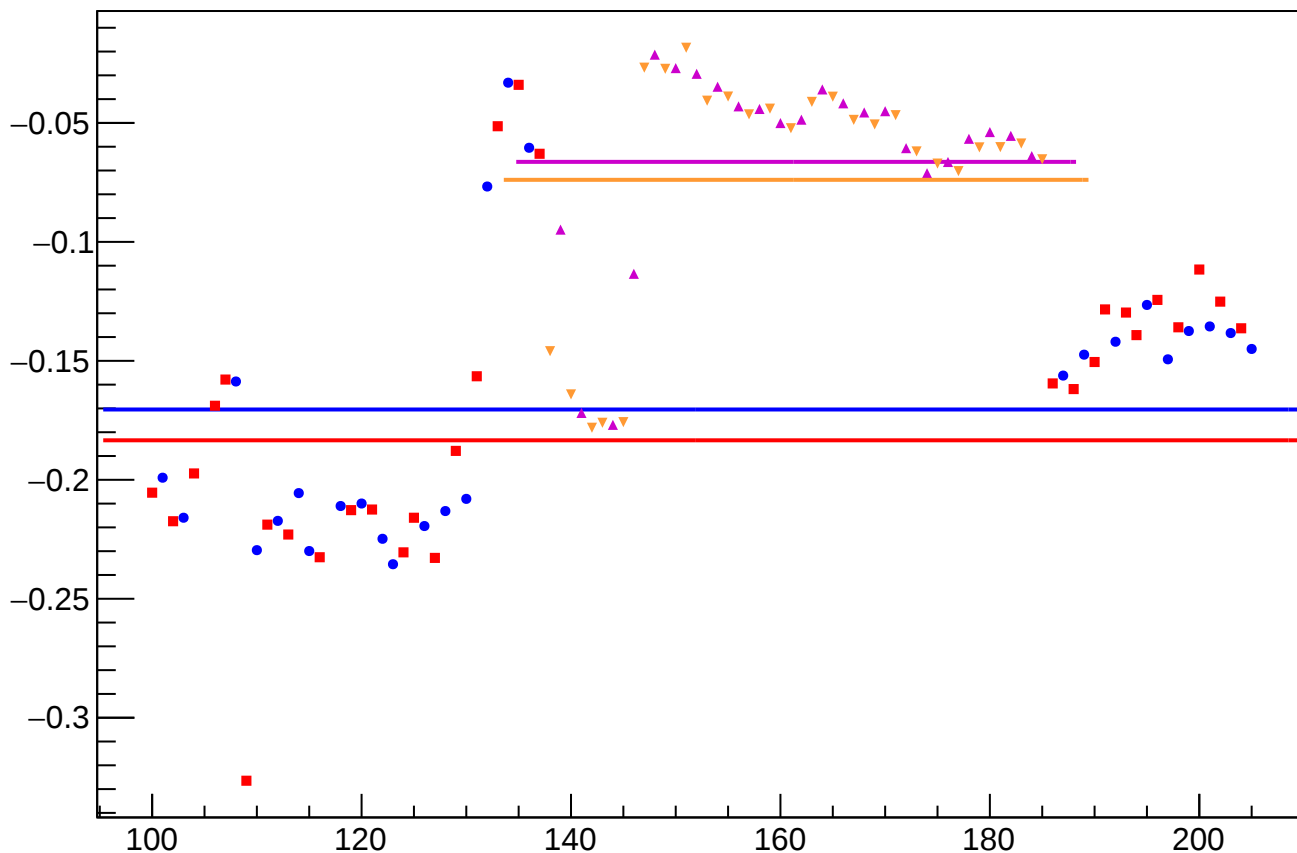
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3733306.8/55

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2511416.9/48

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3336352.3/54

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5849122.5/103

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.170+/-0.000 χ^2/NDF : 68370302.9/25

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.183+/-0.000 χ^2/NDF : 85774322.1/29

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

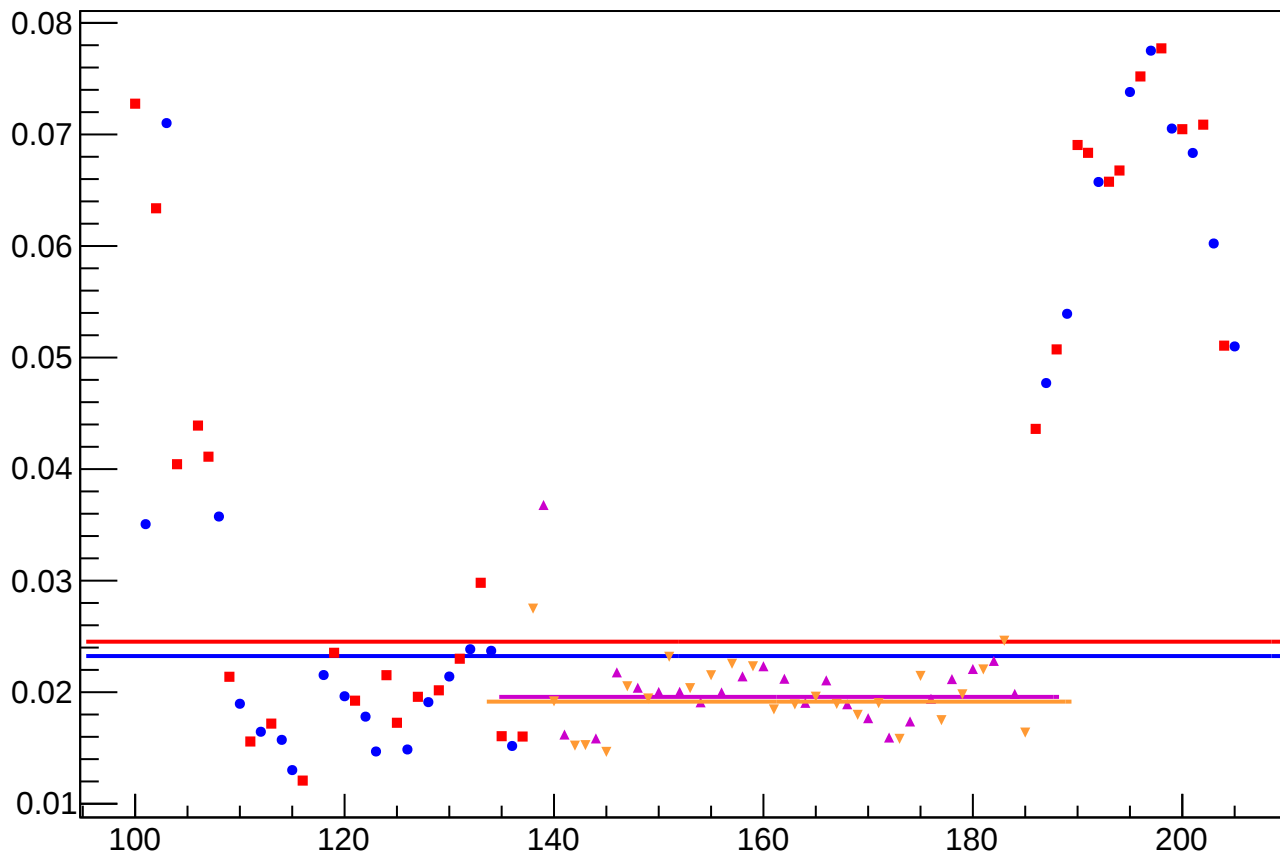
Right: -0.177+/-0.000 χ^2/NDF : 155424831.7/55

In: -0.097+/-0.000 χ^2/NDF : 262630312.5/48

Out: -0.103+/-0.000 χ^2/NDF : 326641049.1/54

All: -0.100+/-0.000 χ^2/NDF : 590520248.7/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 6760179.4/25

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.025+/-0.000 χ^2/NDF : 7334496.1/29

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

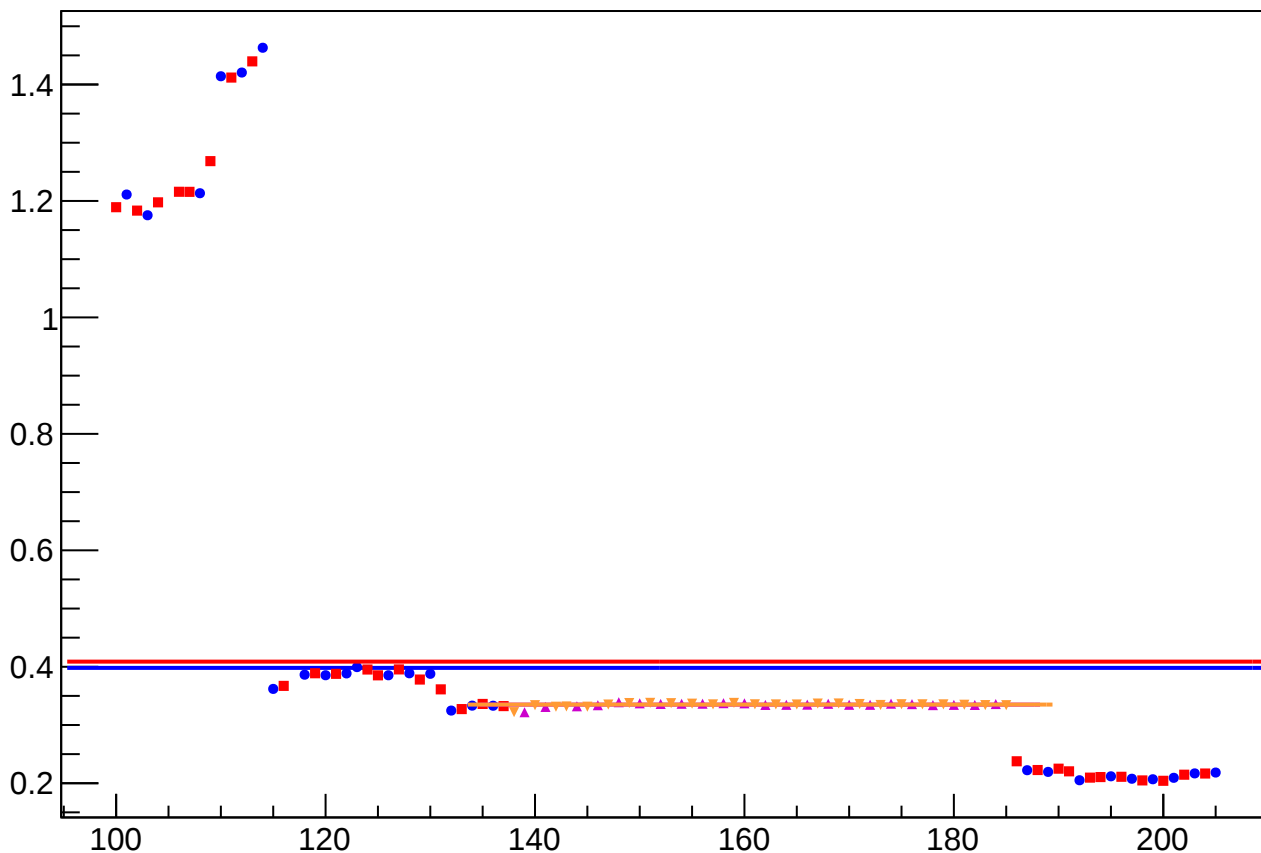
Right: 0.024+/-0.000 χ^2/NDF : 14120013.4/55

In: 0.021+/-0.000 χ^2/NDF : 7703337.0/48

Out: 0.021+/-0.000 χ^2/NDF : 8616490.5/54

All: 0.021+/-0.000 χ^2/NDF : 16319927.6/103

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.398 $\pm$ 0.000 χ^2 /NDF: 7288282984.5/25

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1153956.7/24

Right Out: 0.409 $\pm$ 0.000 χ^2 /NDF: 8380390045.3/29

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1198302.8/22

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2352818.7/47

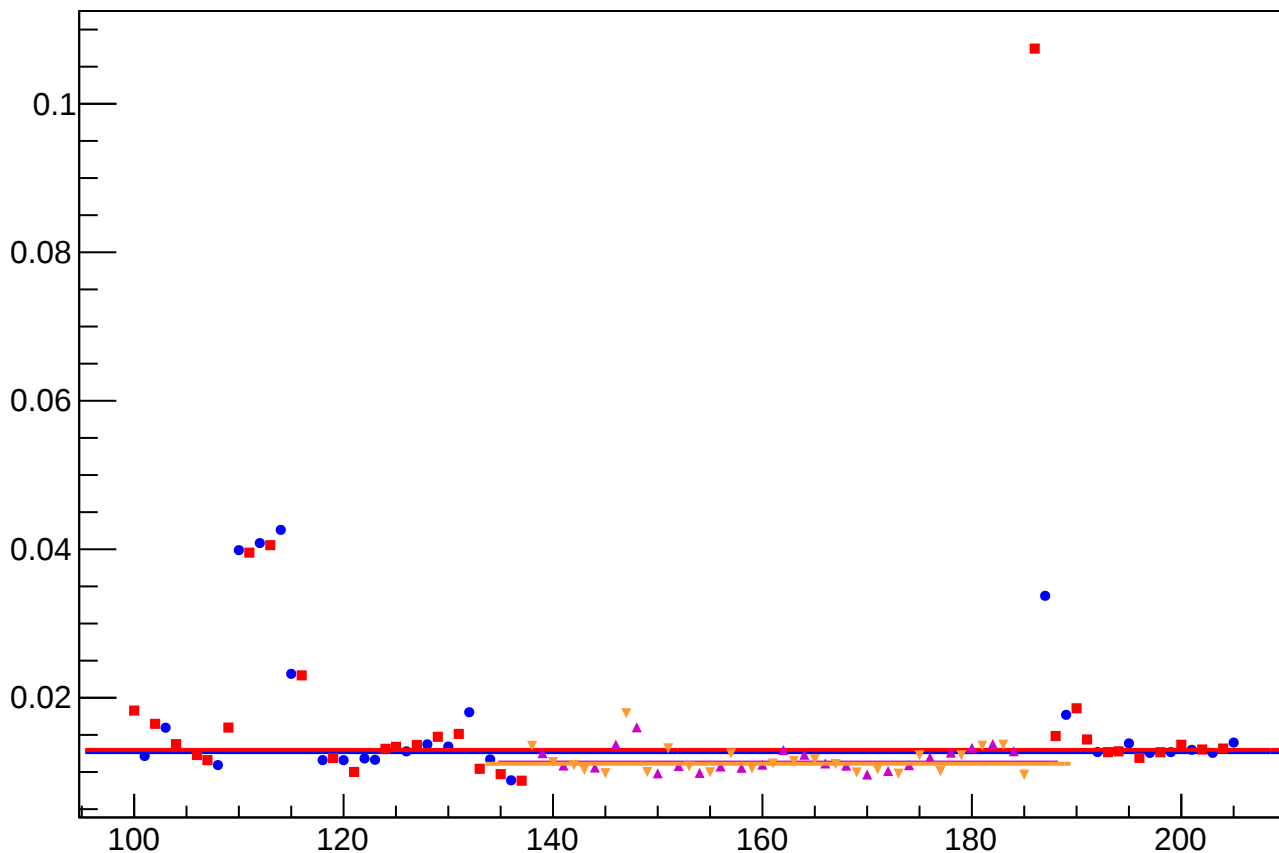
Right: 0.404 $\pm$ 0.000 χ^2 /NDF: 15672863235.3/55

In: 0.357 $\pm$ 0.000 χ^2 /NDF:7473992410.6/48

Out: 0.360 $\pm$ 0.000 χ^2 /NDF:8644619749.7/54

All: 0.359 $\pm$ 0.000 χ^2 /NDF: 16119492344.2/101

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1524254.6/25

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1933627.5/29

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

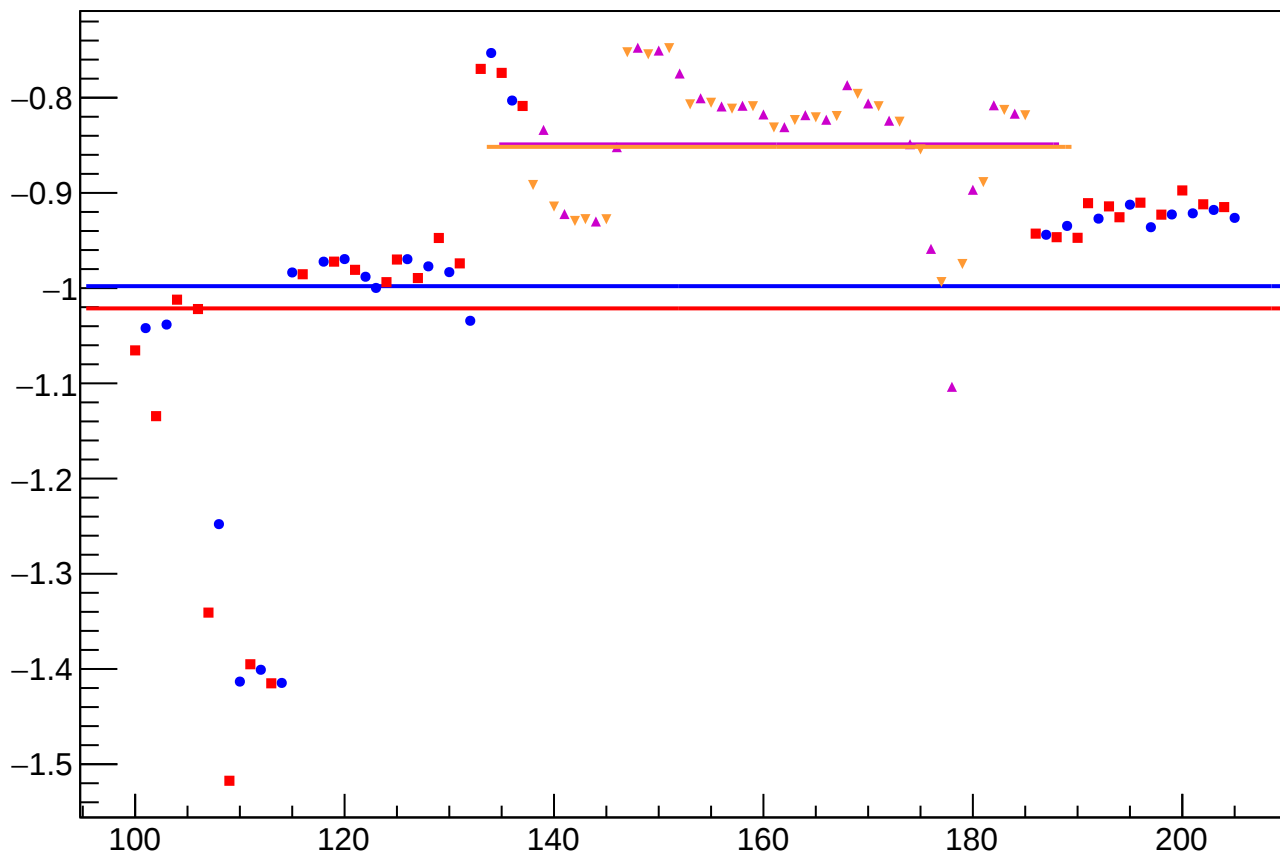
Right: 0.013+/-0.000 χ^2/NDF : 3464289.2/55

In: 0.012+/-0.000 χ^2/NDF : 2209949.8/48

Out: 0.012+/-0.000 χ^2/NDF : 2877242.8/54

All: 0.012+/-0.000 χ^2/NDF : 5087285.1/103

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.998 $\pm$ 0.000 χ^2 /NDF: 402256314.2/25

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189276591.7/24

Right Out: -1.021 $\pm$ 0.000 χ^2 /NDF: 554974677.3/29

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256438306.8/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445849768.4/47

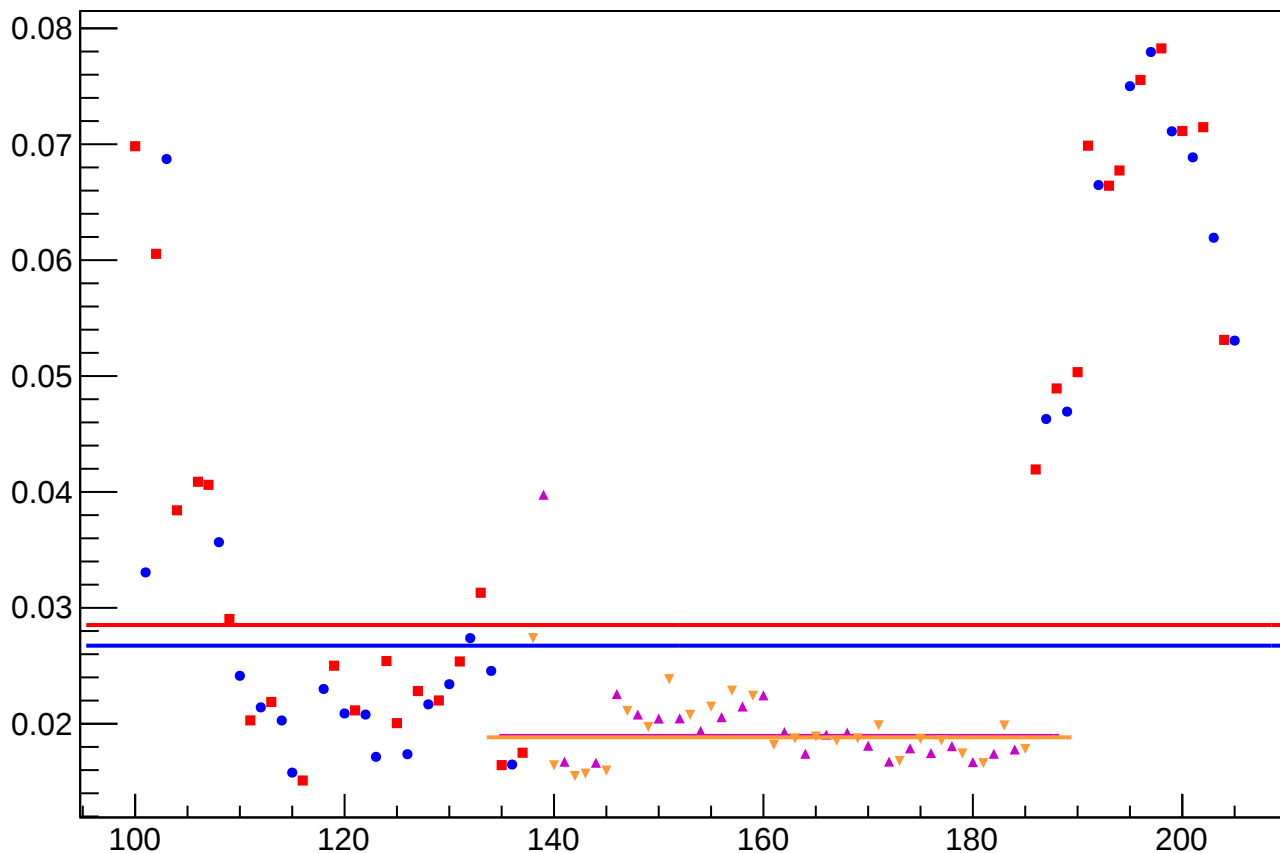
Right: -1.009 $\pm$ 0.000 χ^2 /NDF: 960540202.9/55

In: -0.885 $\pm$ 0.000 χ^2 /NDF:865433935.9/48

Out: -0.889 $\pm$ 0.000 χ^2 /NDF:1013131847.7/54

All: -0.887 $\pm$ 0.000 χ^2 /NDF: 1879196257.1/110

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 5788569.4/25

Left Out: 0.019+/-0.000 χ^2/NDF : 490084.5/24

Right Out: 0.029+/-0.000 χ^2/NDF : 5984076.0/29

Left In: 0.019+/-0.000 χ^2/NDF : 645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

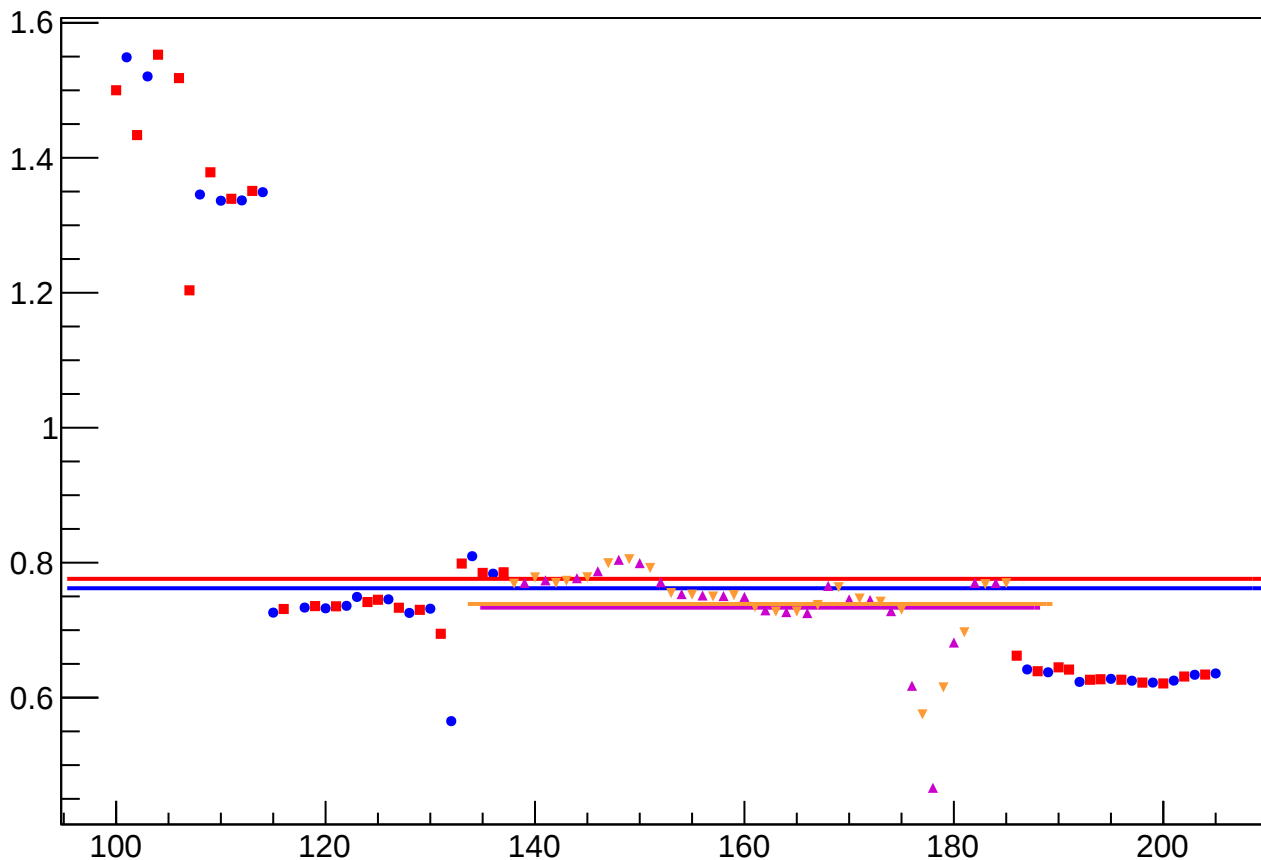
Right: 0.028+/-0.000 χ^2/NDF : 1181117.5/55

In: 0.021+/-0.000 χ^2/NDF : 7565184.8/48

Out: 0.021+/-0.000 χ^2/NDF : 8228896.4/54

All: 0.021+/-0.000 χ^2/NDF : 15795800.7/103

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.762 $\pm$ 0.000 χ^2/NDF : 3375496236.9/25

Left Out: 0.739 $\pm$ 0.000 χ^2/NDF :333086309.0/24

Right Out: 0.776 $\pm$ 0.000 χ^2/NDF : 3681962782.6/29

Left In: 0.733 $\pm$ 0.000 χ^2/NDF :570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2/NDF : 905100069.4/47

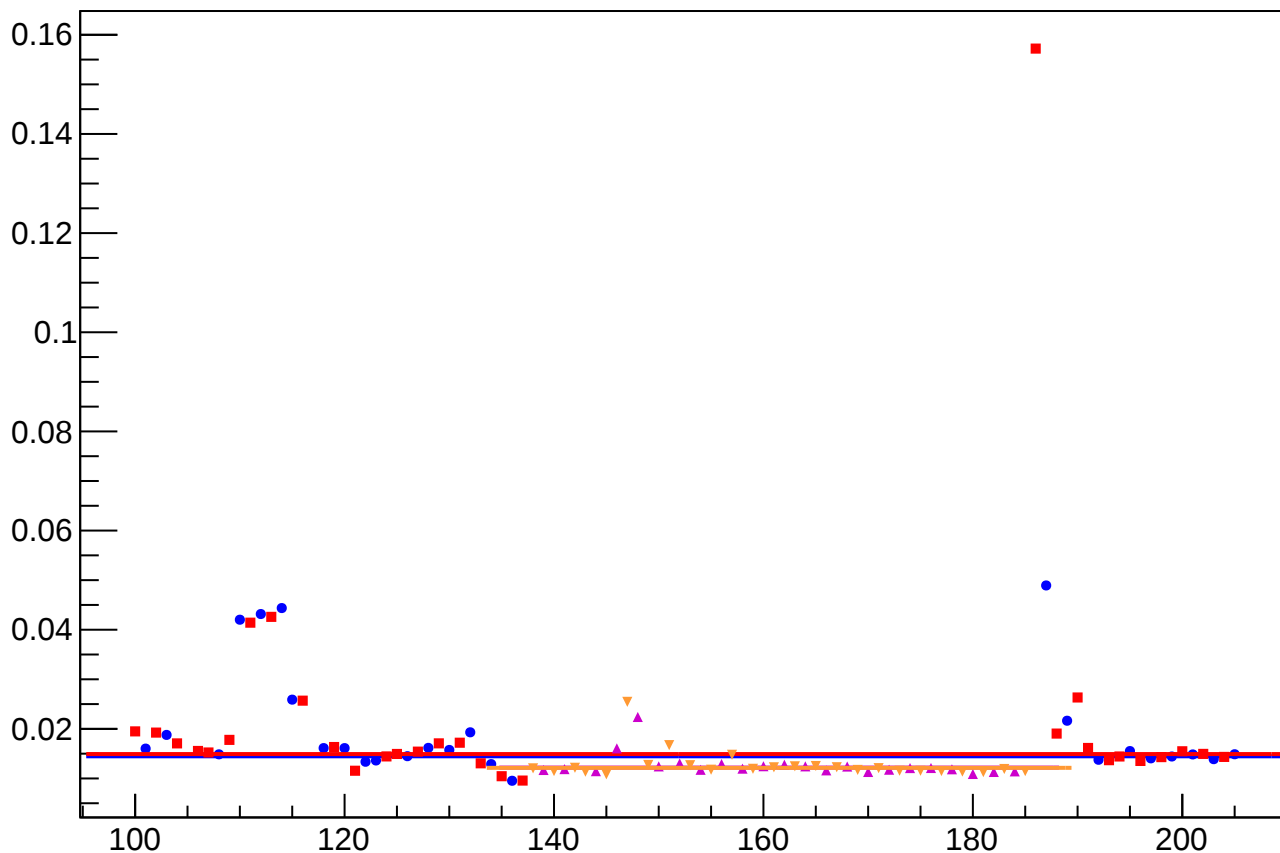
Right: 0.769 $\pm$ 0.000 χ^2/NDF : 7062813365.2/55

In: 0.743 $\pm$ 0.000 χ^2/NDF :3976359507.2/48

Out: 0.751 $\pm$ 0.000 χ^2/NDF :4067637993.2/54

All: 0.747 $\pm$ 0.000 χ^2/NDF : 8049328141.1/10

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1645790.3/25

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:638211.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2078113.9/29

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:481639.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1120132.0/47

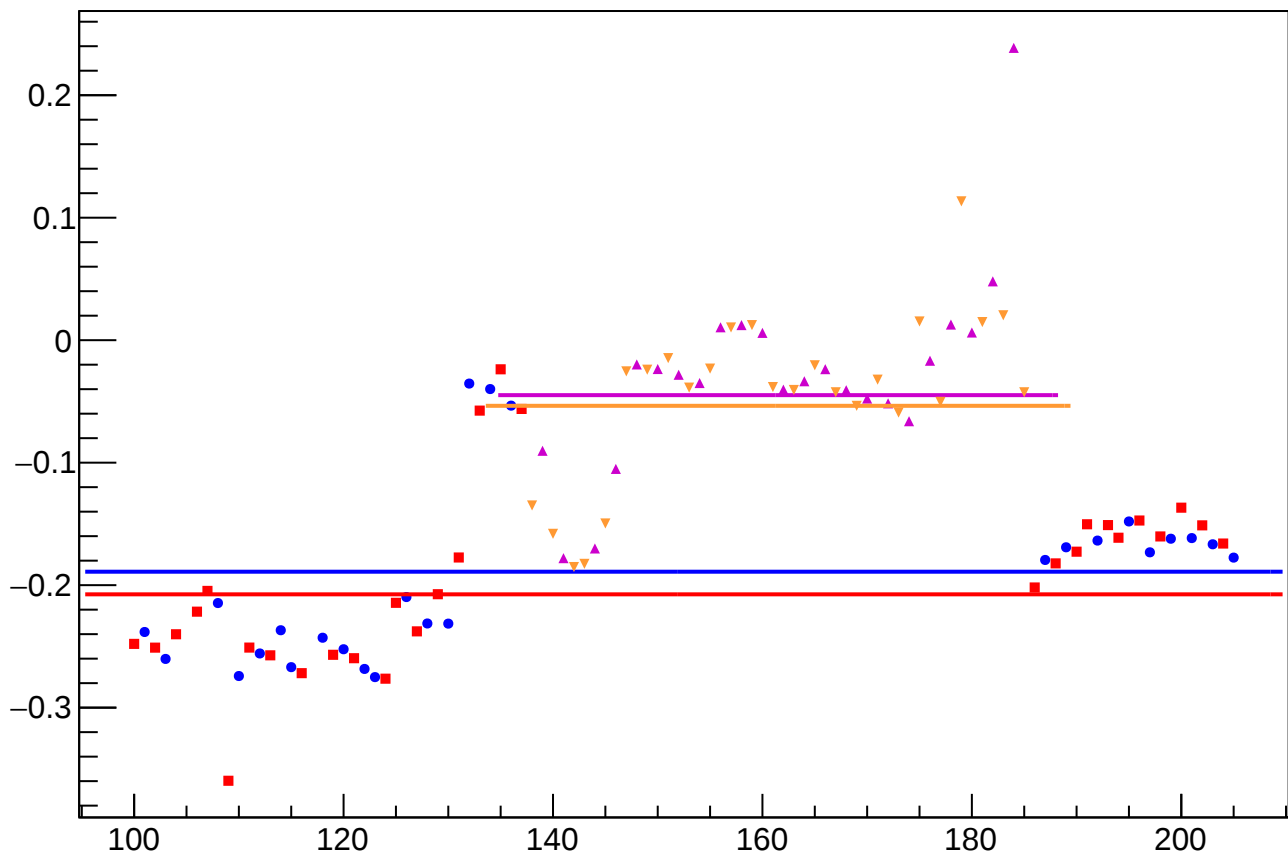
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3735100.9/55

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2510768.5/48

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3301724.7/54

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5813800.2/103

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.189 ± 0.000 $\chi^2/\text{NDF}: 106882758.7/25$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167879648.0/24$

Right Out: -0.207 ± 0.000 $\chi^2/\text{NDF}: 113729247.2/29$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

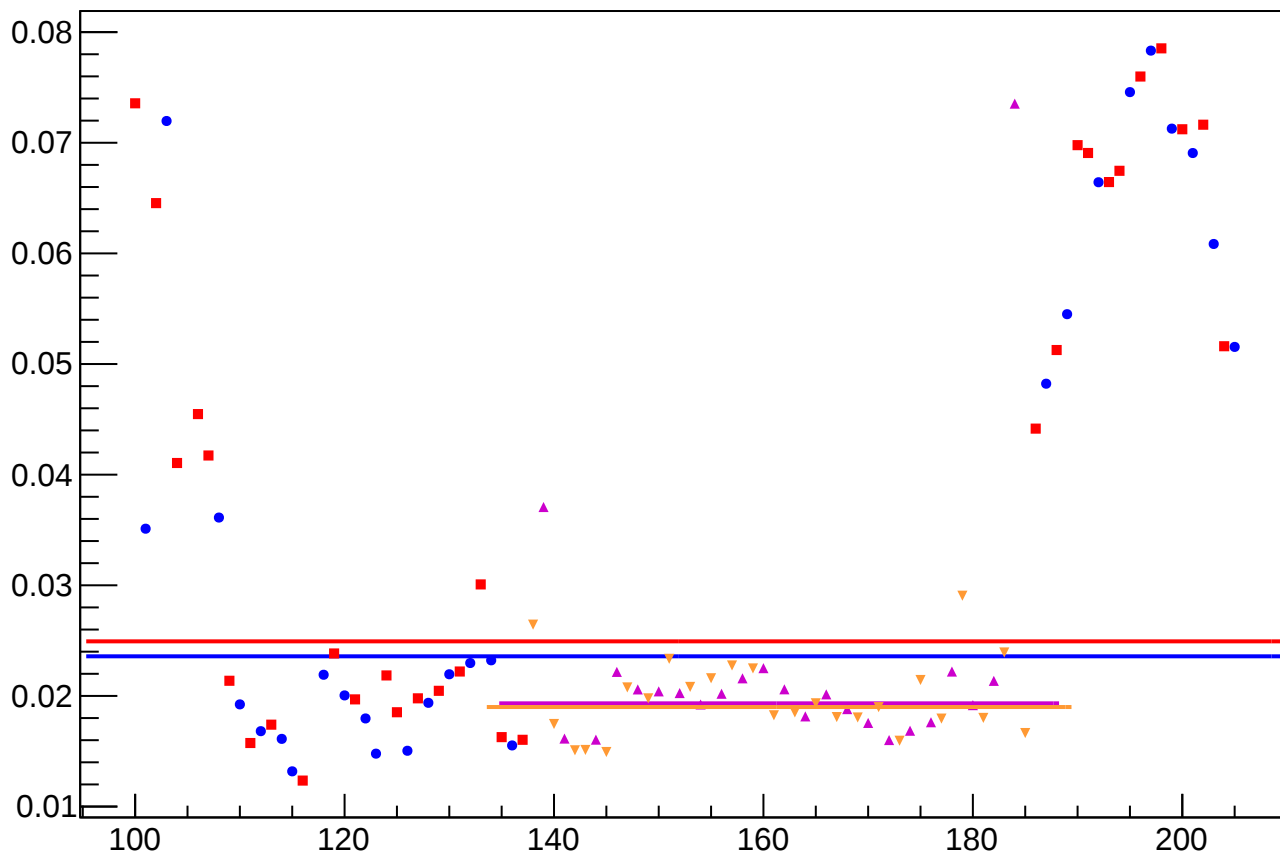
Right: -0.198 ± 0.000 $\chi^2/\text{NDF}: 223142892.4/55$

In: -0.086 ± 0.000 $\chi^2/\text{NDF}: 455961599.5/48$

Out: -0.095 ± 0.000 $\chi^2/\text{NDF}: 537387820.4/54$

All: -0.090 ± 0.000 $\chi^2/\text{NDF}: 995259242.3/100$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 6709951.3/25

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:699267.5/24

Right Out: 0.025 $\pm$ 0.000 χ^2 /NDF: 7291278.1/29

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

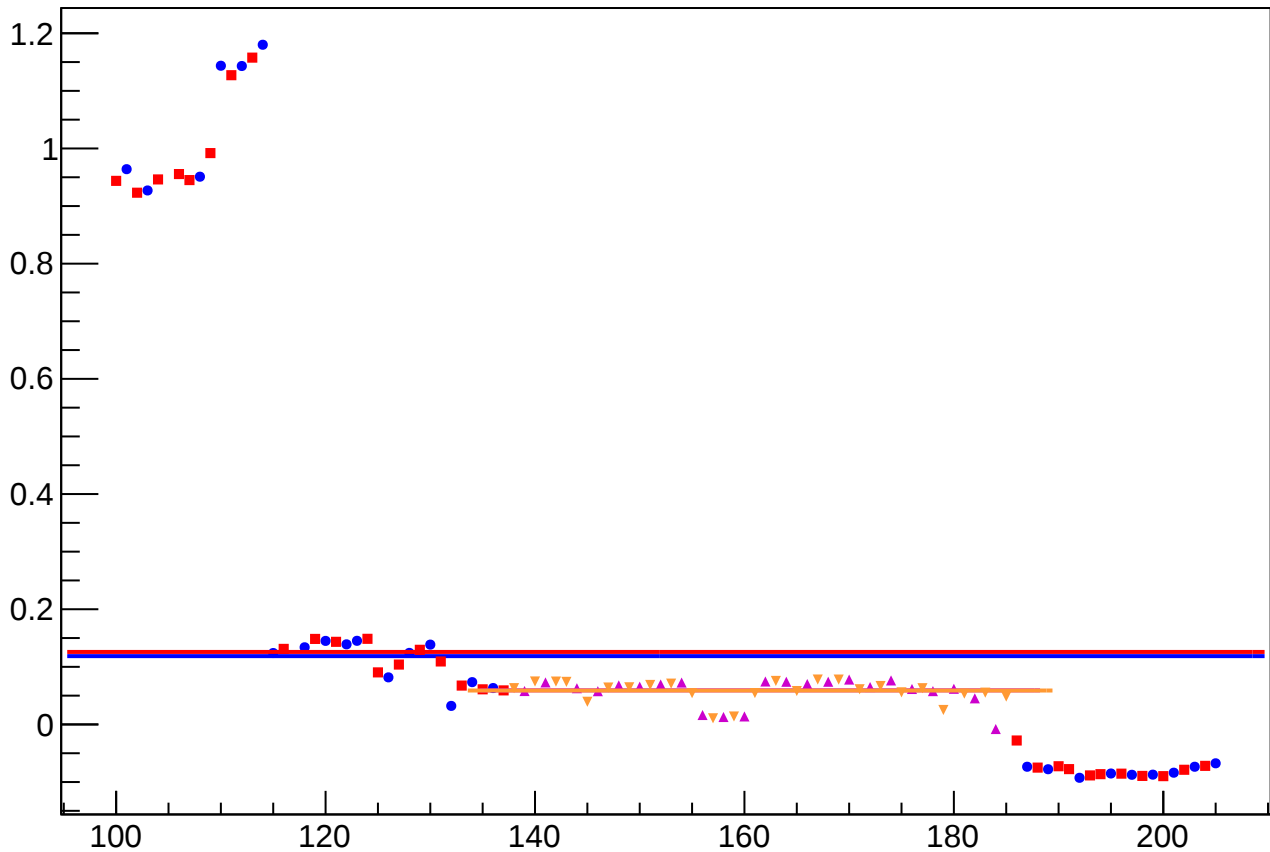
Right: 0.024 $\pm$ 0.000 χ^2 /NDF: 14028359.5/55

In: 0.021 $\pm$ 0.000 χ^2 /NDF:7988370.9/48

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:8751578.4/54

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 16739998.3/103

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.119+/-0.000 χ^2/NDF : 7845703049.8/25

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.126+/-0.000 χ^2/NDF : 8817932921.6/29

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

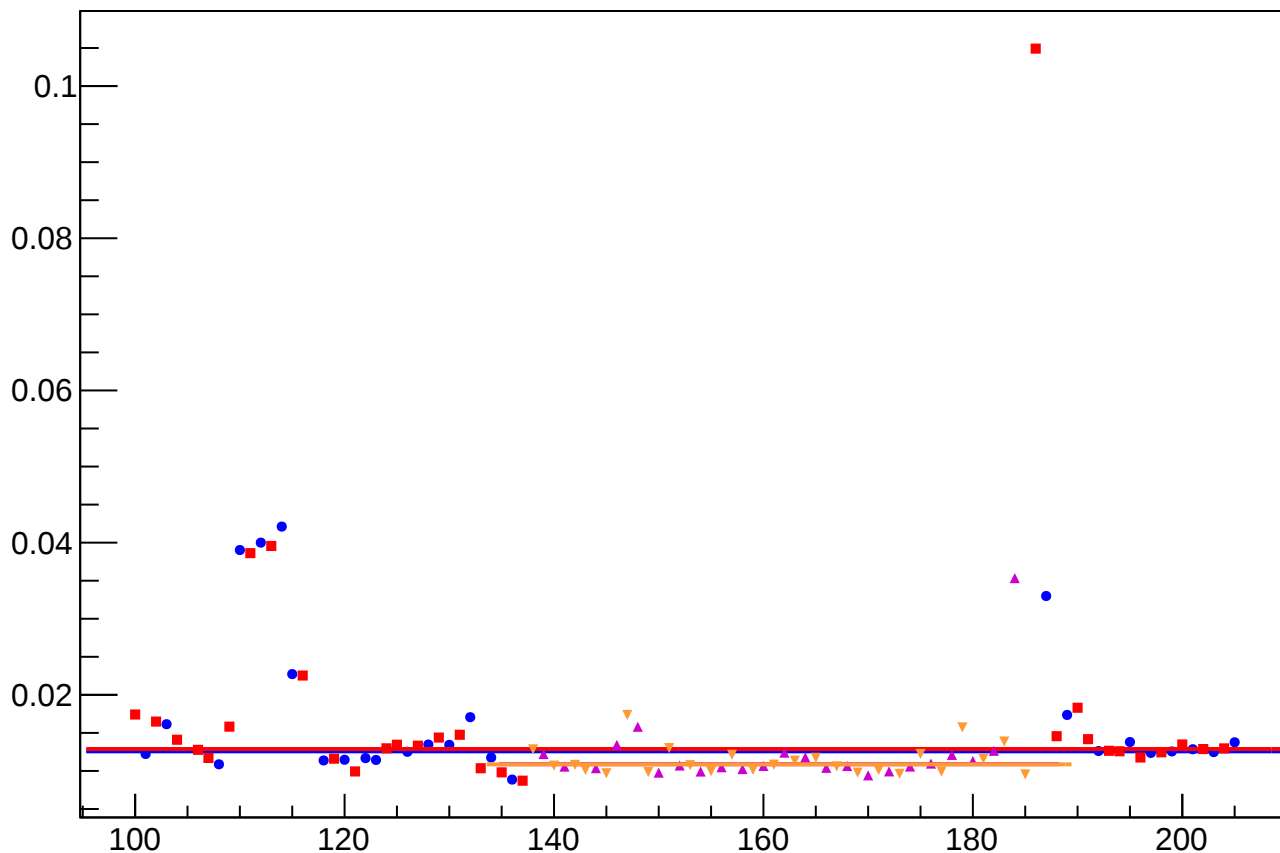
Right: 0.122+/-0.000 χ^2/NDF : 16665598409.7/55

In: 0.080+/-0.000 χ^2/NDF : 8072330816.2/48

Out: 0.082+/-0.000 χ^2/NDF : 9085361538.6/54

All: 0.081+/-0.000 χ^2/NDF : 17158071067.7/101

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1489356.0/25

Left Out: 0.011+/-0.000 χ^2/NDF :605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1891196.5/29

Left In: 0.011+/-0.000 χ^2/NDF :529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

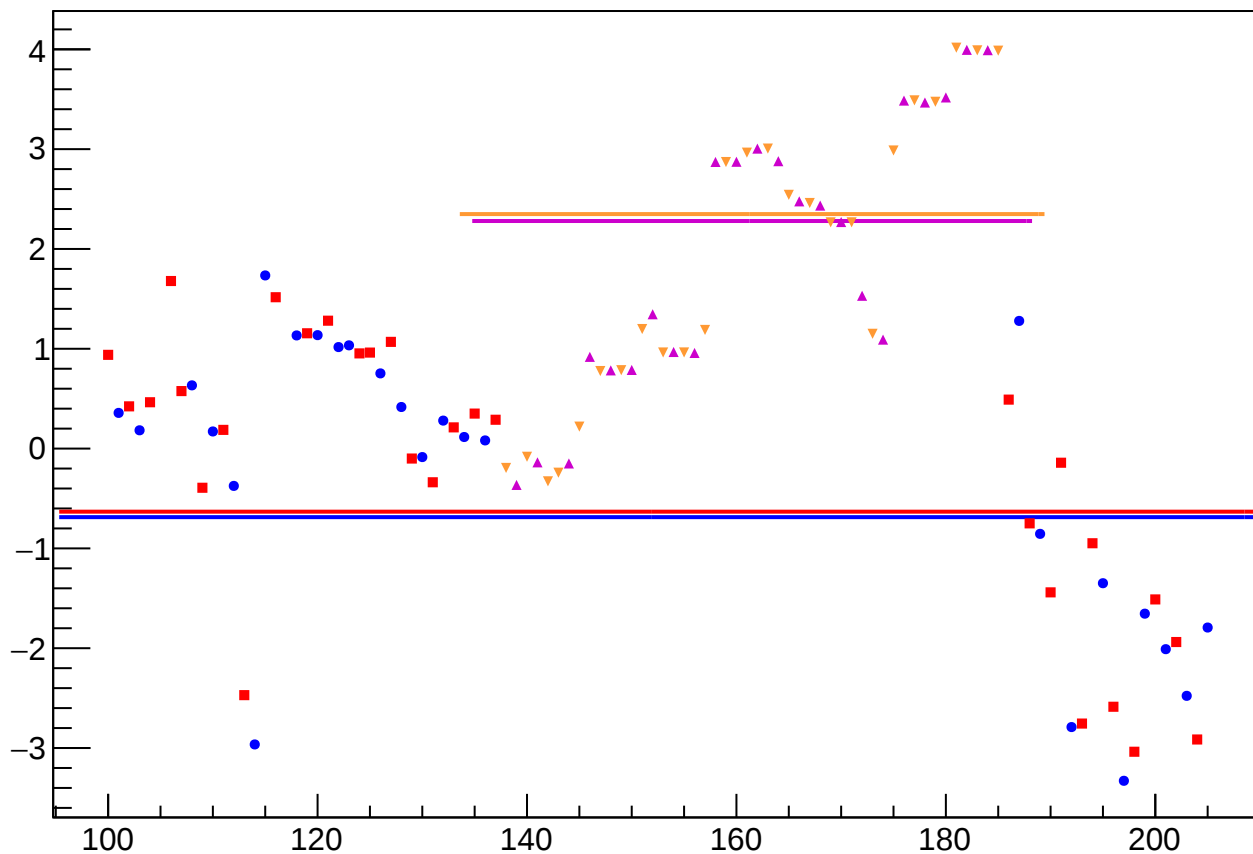
Right: 0.013+/-0.000 χ^2/NDF : 3387305.6/55

In: 0.011+/-0.000 χ^2/NDF :2289750.7/48

Out: 0.012+/-0.000 χ^2/NDF :2896017.4/54

All: 0.012+/-0.000 χ^2/NDF : 5186919.2/103

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.687 ± 0.000 $\chi^2/\text{NDF}: 5931748856.8/25$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.632 ± 0.000 $\chi^2/\text{NDF}: 7052651478.7/29$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

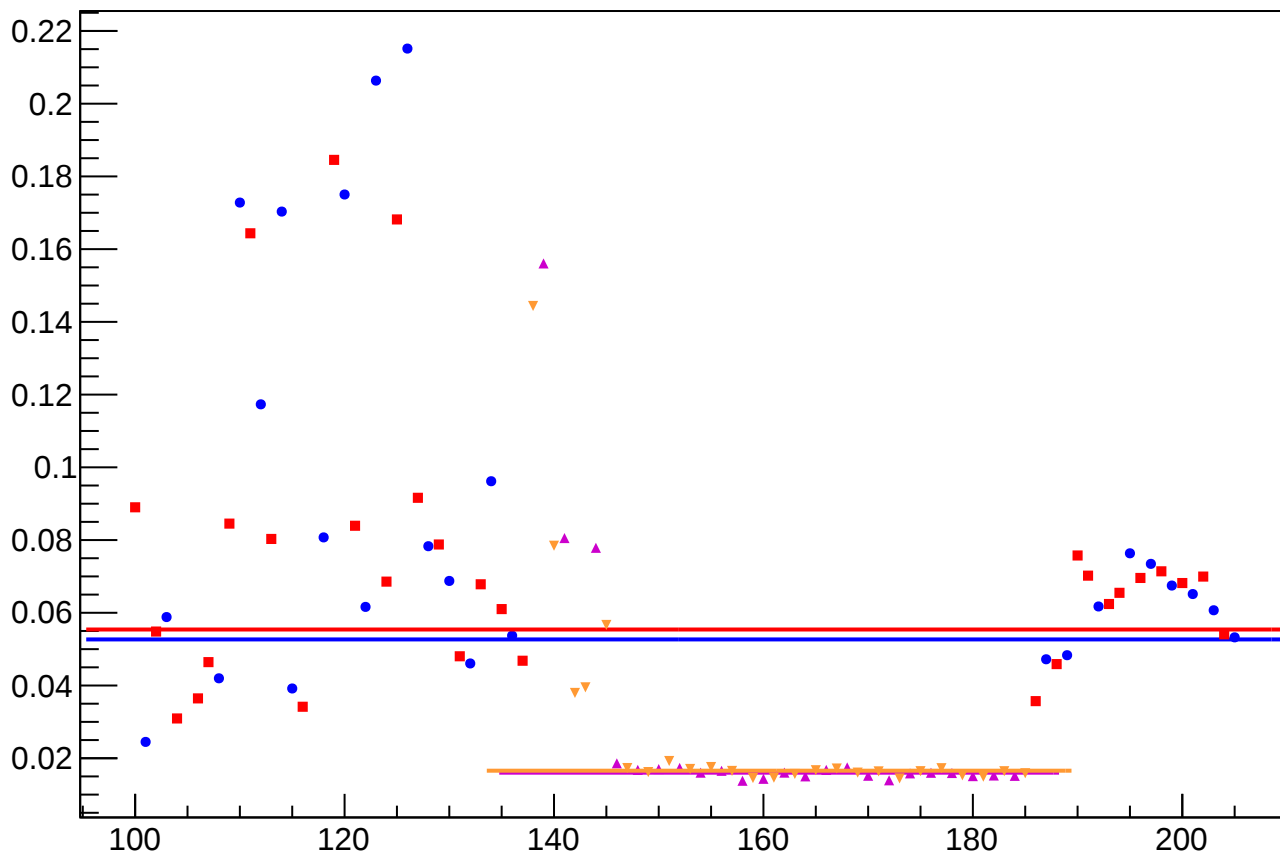
Right: -0.659 ± 0.000 $\chi^2/\text{NDF}: 12989458916.9/55$

In: 2.104 ± 0.000 $\chi^2/\text{NDF}: 94595825374.1/48$

Out: 2.163 ± 0.000 $\chi^2/\text{NDF}: 99108417240.5/54$

All: 2.133 ± 0.000 $\chi^2/\text{NDF}: 193798075175.3$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 3459092.8/25

Left Out: 0.017+/-0.000 χ^2/NDF :2623615.6/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2837195.4/29

Left In: 0.016+/-0.000 χ^2/NDF :2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

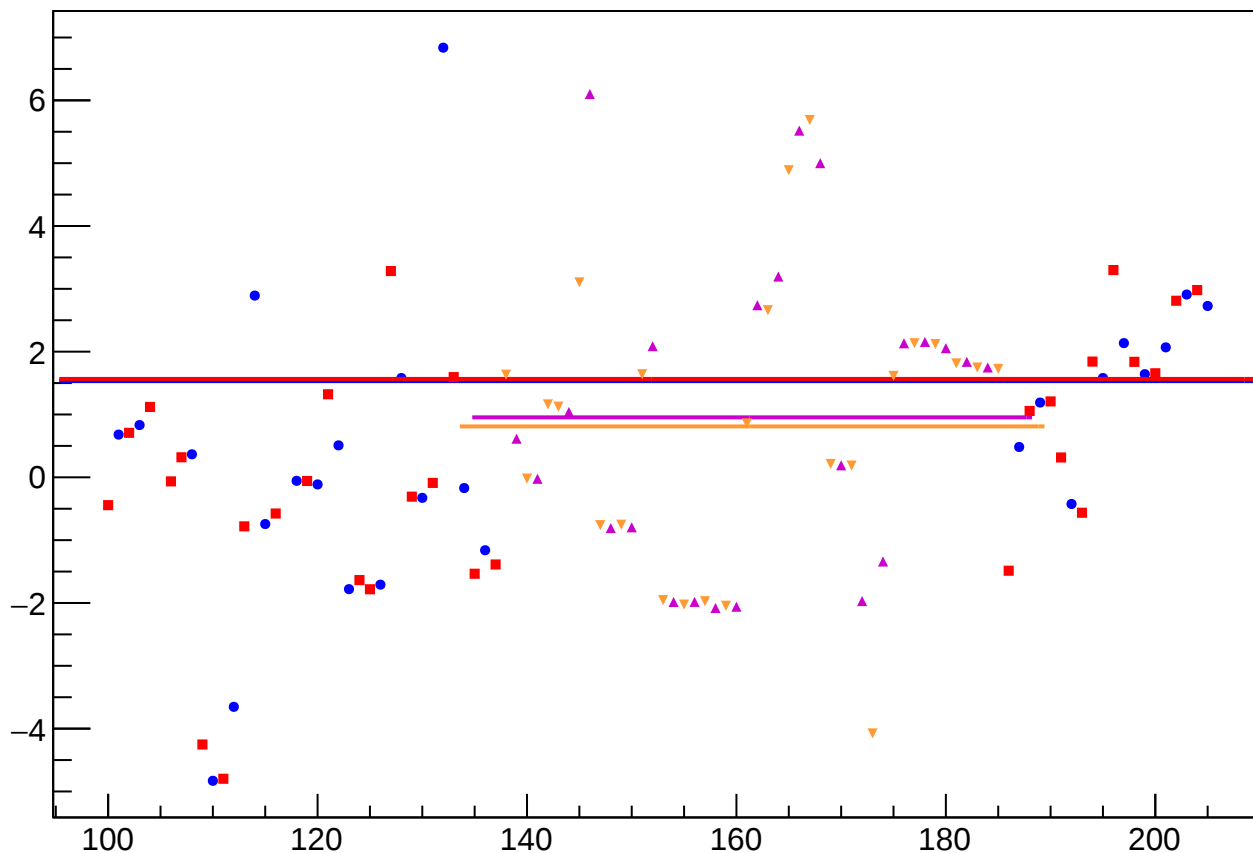
Right: 0.054+/-0.000 χ^2/NDF : 6321231.0/55

In: 0.018+/-0.000 χ^2/NDF :14226590.0/48

Out: 0.019+/-0.000 χ^2/NDF :15112700.1/54

All: 0.019+/-0.000 χ^2/NDF : 29375080.3/103

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.531+/-0.000

χ^2/NDF : 30171918431.6/25

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Right: 1.549+/-0.000

χ^2/NDF : 61628758035.8/55

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

In: 1.057+/-0.000

χ^2/NDF : 610057744845.5/48

Right Out: 1.566+/-0.000

χ^2/NDF : 31445504250.1/29

Out: 0.949+/-0.000

χ^2/NDF : 547917888278.8/54

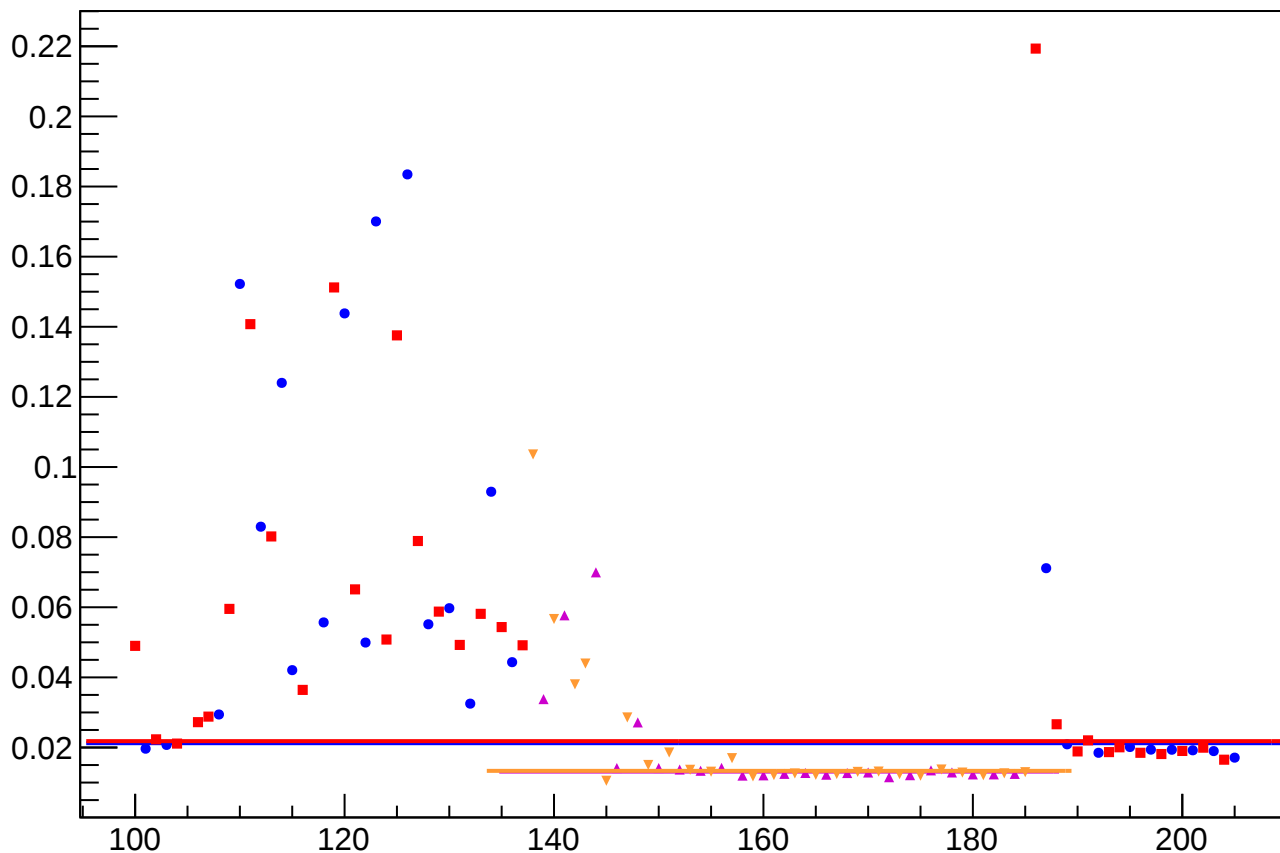
Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

All: 1.003+/-0.000

χ^2/NDF : 1158591938345.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 3798925.6/25

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.022+/-0.000 χ^2/NDF : 4918160.8/29

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

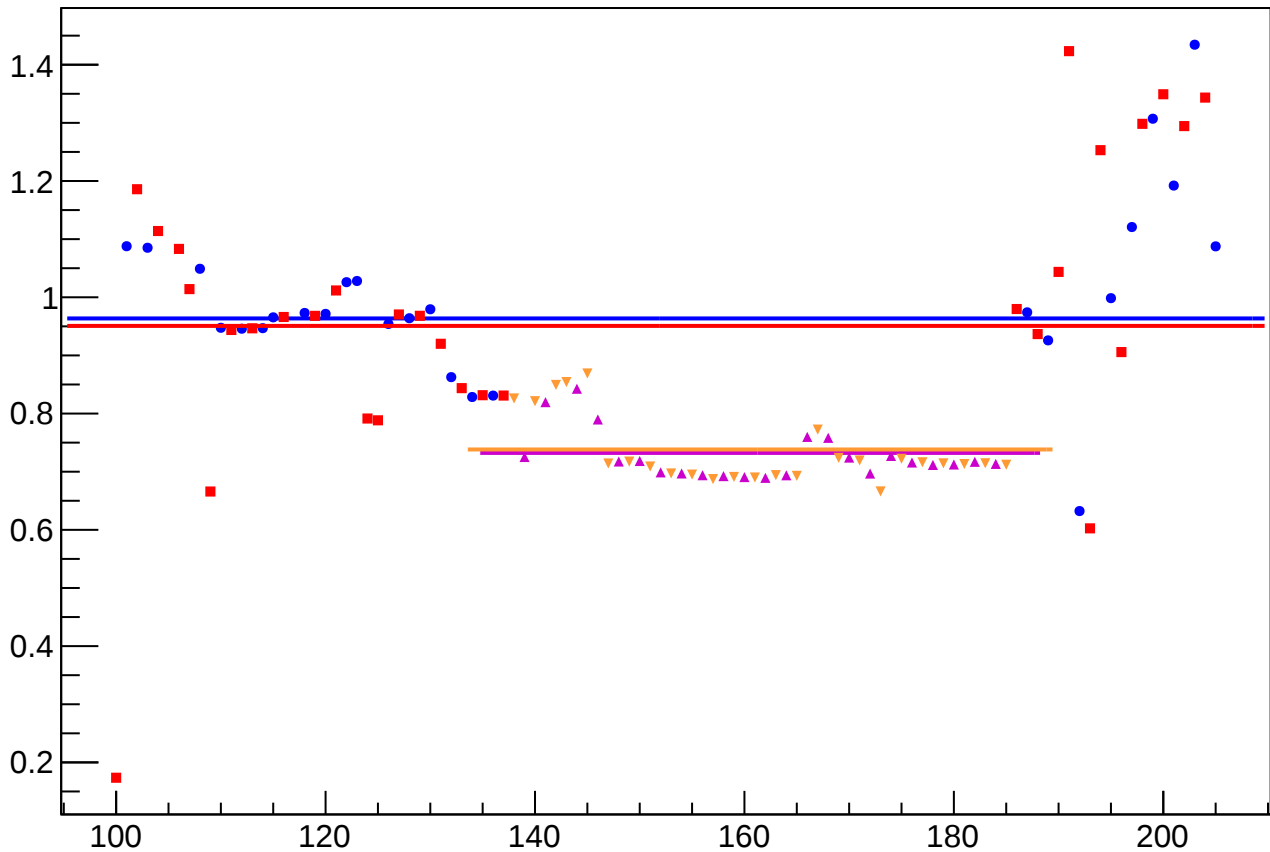
Right: 0.022+/-0.000 χ^2/NDF : 8723573.3/55

In: 0.015+/-0.000 χ^2/NDF :7772346.3/48

Out: 0.015+/-0.000 χ^2/NDF :9984727.2/54

All: 0.015+/-0.000 χ^2/NDF : 17767120.6/103

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.964+/-0.000 χ^2/NDF : 577056122.4/25

Left Out: 0.738+/-0.000 χ^2/NDF : 310610047.7/24

Right Out: 0.951+/-0.000 χ^2/NDF : 995102043.3/29

Left In: 0.732+/-0.000 χ^2/NDF : 170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

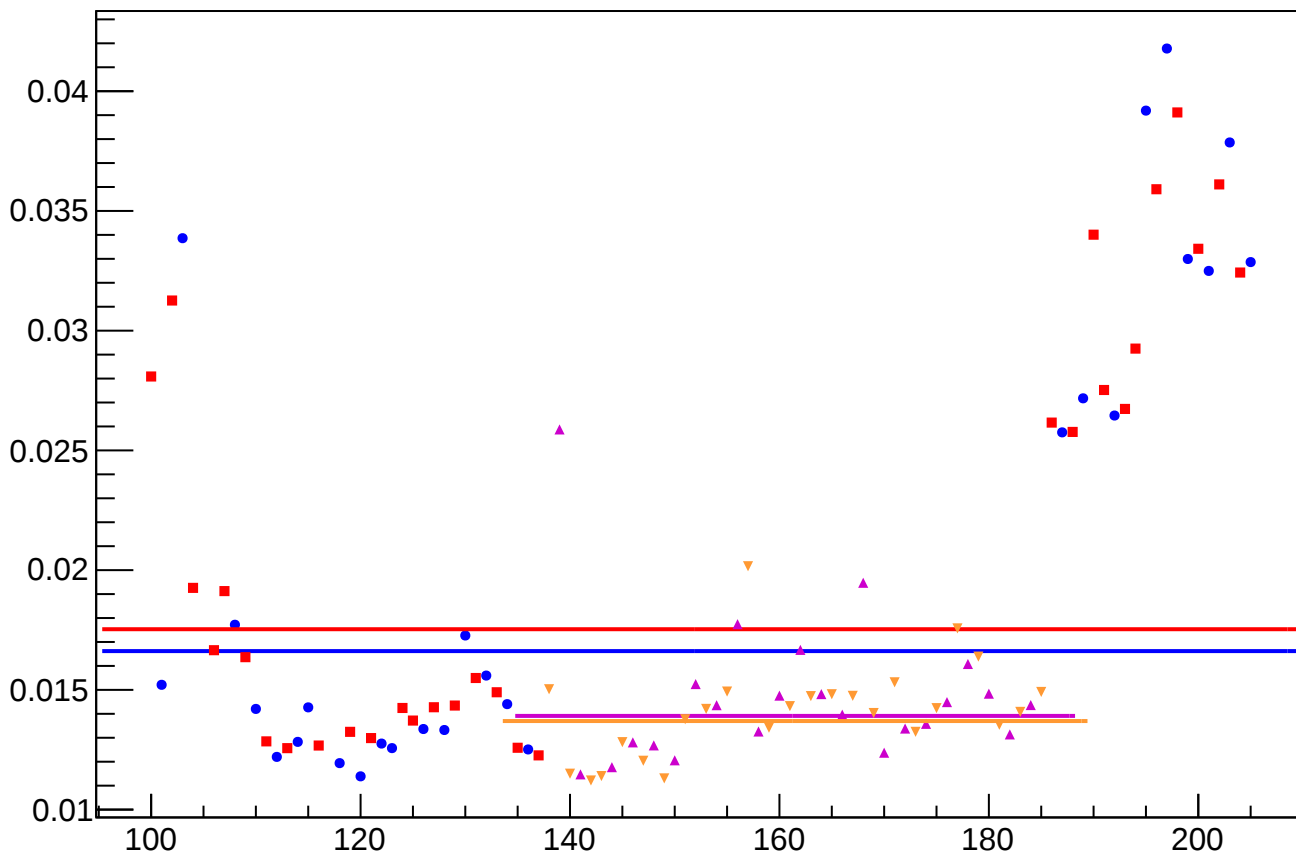
Right: 0.957+/-0.000 χ^2/NDF : 1575124933.3/55

In: 0.804+/-0.000 χ^2/NDF : 2073970668.9/48

Out: 0.801+/-0.000 χ^2/NDF : 2462007513.8/54

All: 0.802+/-0.000 χ^2/NDF : 4536360439.0/10

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 4010532.2/25

Left Out: 0.014+/-0.000 χ^2/NDF :530851.9/24

Right Out: 0.018+/-0.000 χ^2/NDF : 3709005.7/29

Left In: 0.014+/-0.000 χ^2/NDF :794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

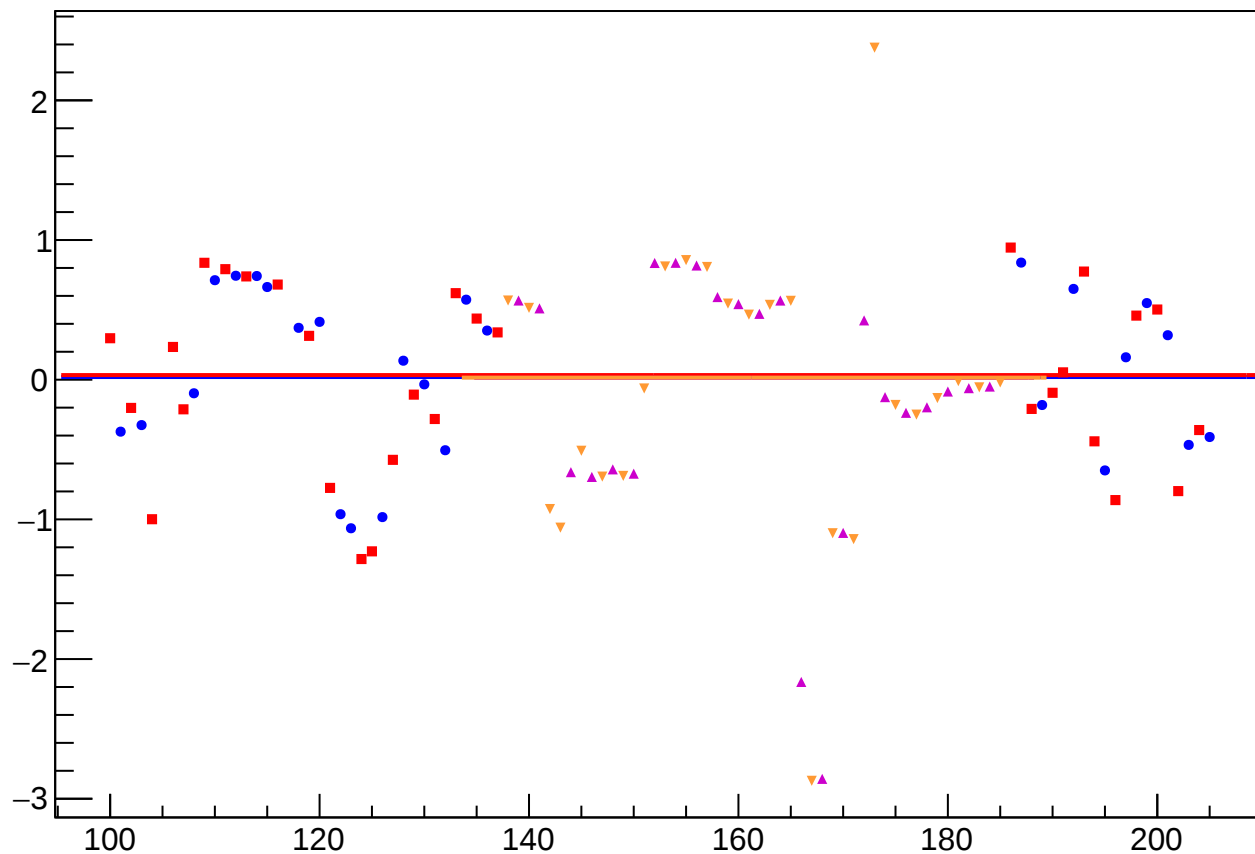
Right: 0.017+/-0.000 χ^2/NDF : 7749661.6/55

In: 0.015+/-0.000 χ^2/NDF :5168302.7/48

Out: 0.015+/-0.000 χ^2/NDF :4992587.2/54

All: 0.015+/-0.000 χ^2/NDF : 10161758.9/103

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 17884895088.9/25

Left Out: 0.015+/-0.000 χ^2/NDF : 96087835995.8/24

Right Out: 0.033+/-0.000 χ^2/NDF : 28153369353.8/29

Left In: 0.013+/-0.000 χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

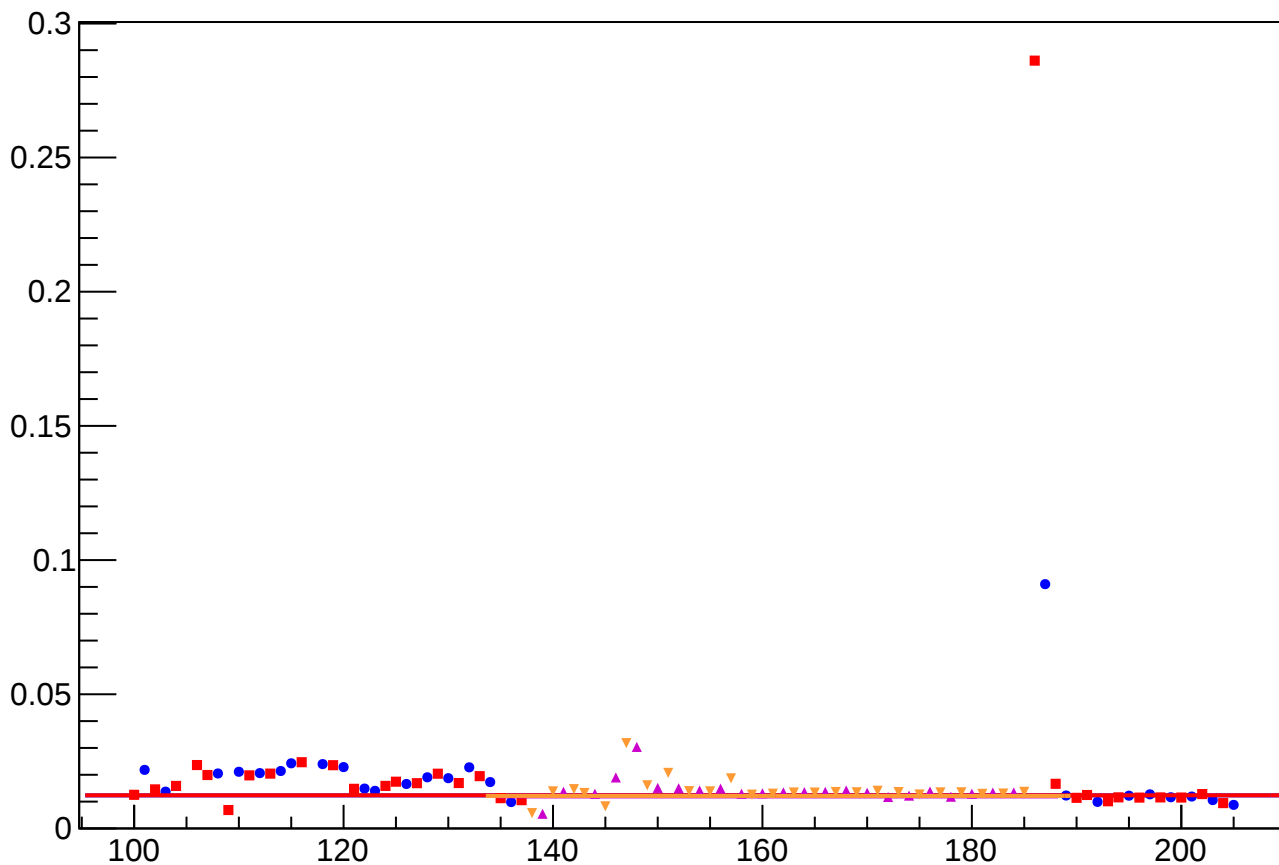
Right: 0.026+/-0.000 χ^2/NDF : 46045361518.1/55

In: 0.015+/-0.000 χ^2/NDF : 97332187040.5/48

Out: 0.022+/-0.000 χ^2/NDF : 124256225078.6/54

All: 0.019+/-0.000 χ^2/NDF : 221592527121.6

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2199157.1/25

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2657790.1/29

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

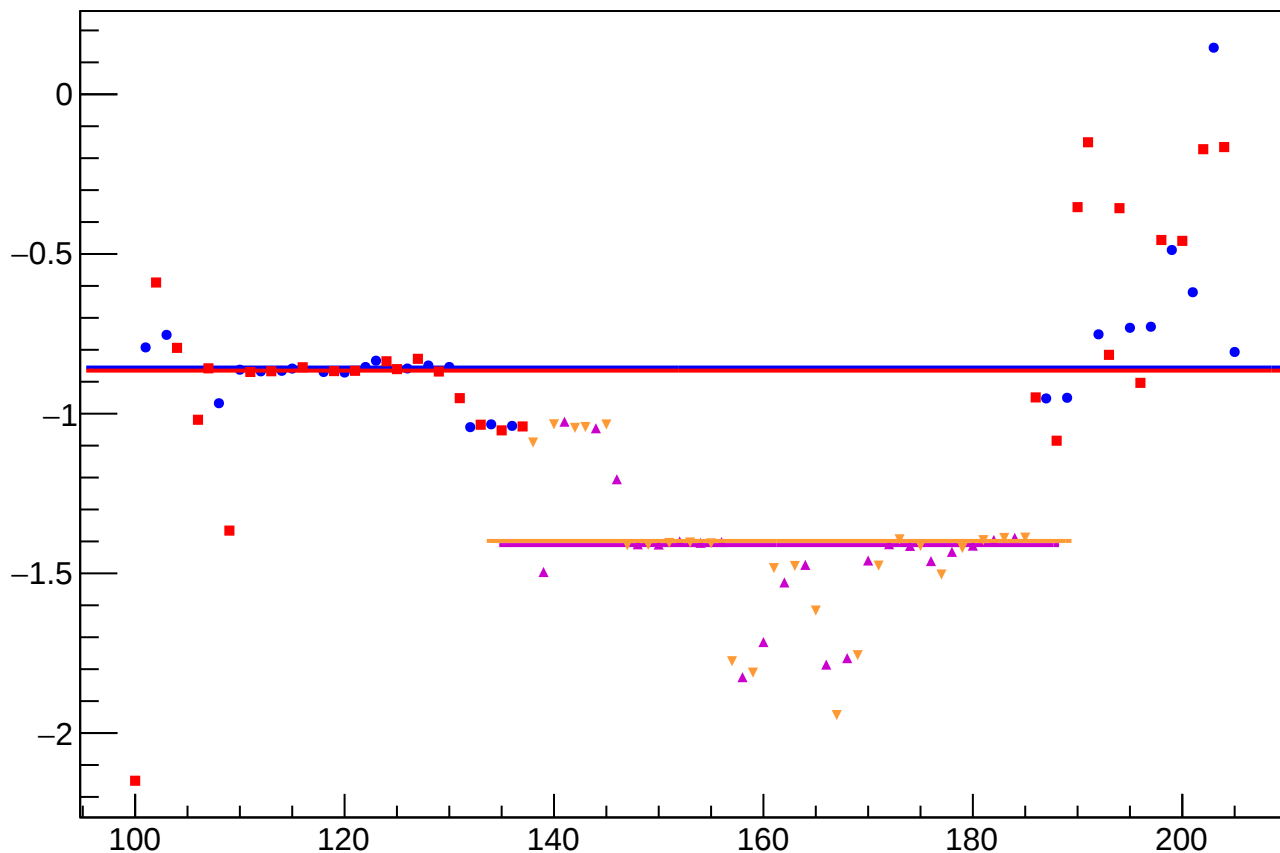
Right: 0.012+/-0.000 χ^2/NDF : 4857038.4/55

In: 0.012+/-0.000 χ^2/NDF :5318383.2/48

Out: 0.012+/-0.000 χ^2/NDF :5770678.1/54

All: 0.012+/-0.000 χ^2/NDF : 11092064.5/103

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.856+/-0.000 χ^2/NDF : 168609339.5/25

Left Out: -1.398+/-0.000 χ^2/NDF : 734579404.3/24

Right Out: -0.865+/-0.000 χ^2/NDF : 368233790.7/29

Left In: -1.412+/-0.000 χ^2/NDF : 512629872.4/22

Left: -1.405+/-0.000 χ^2/NDF : 1248268857.1/47

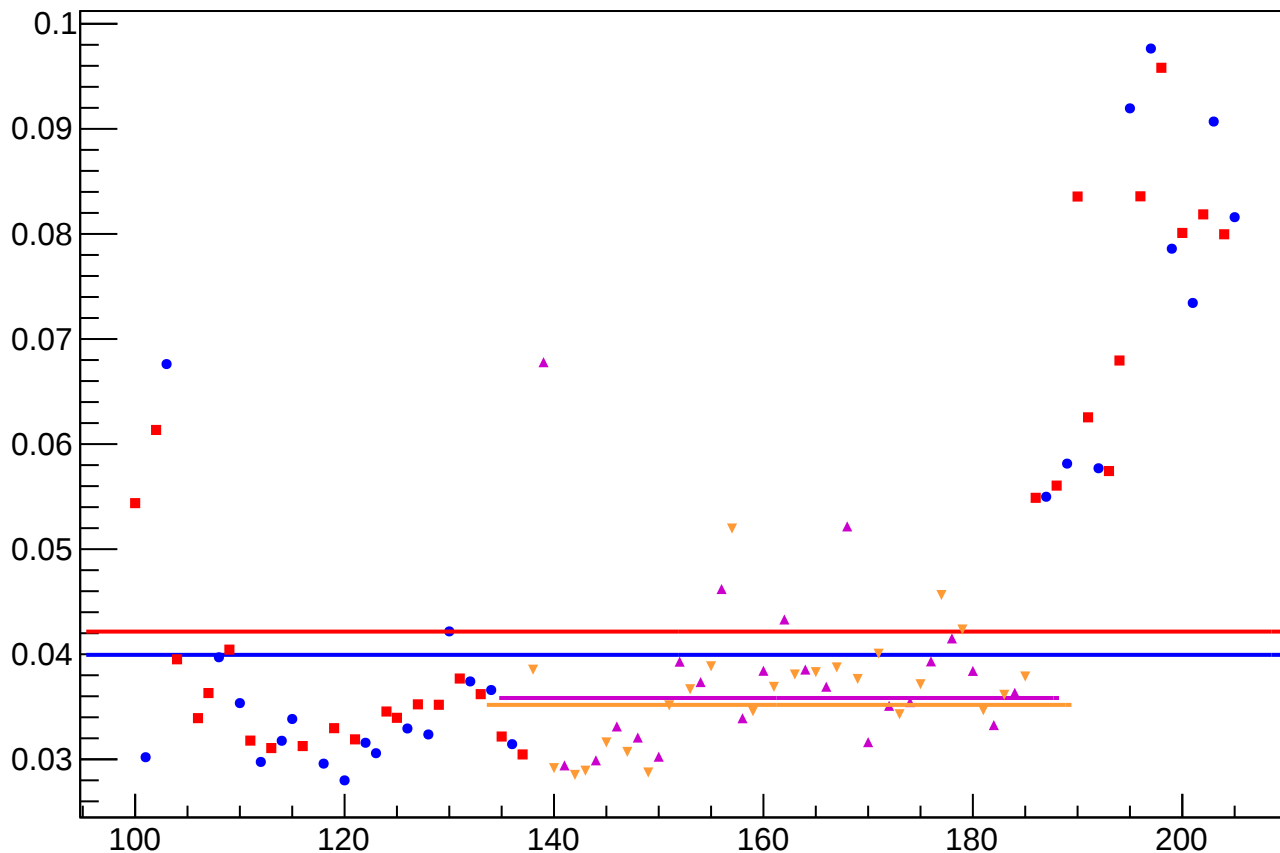
Right: -0.860+/-0.000 χ^2/NDF : 537136270.9/55

In: -1.219+/-0.000 χ^2/NDF : 1960406624.8/48

Out: -1.222+/-0.000 χ^2/NDF : 2323150324.8/54

All: -1.221+/-0.000 χ^2/NDF : 4283633002.9/1

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.040 $\pm$ 0.000 χ^2 /NDF: 3669899.1/25

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:597886.0/24

Right Out: 0.042 $\pm$ 0.000 χ^2 /NDF: 3207143.9/29

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

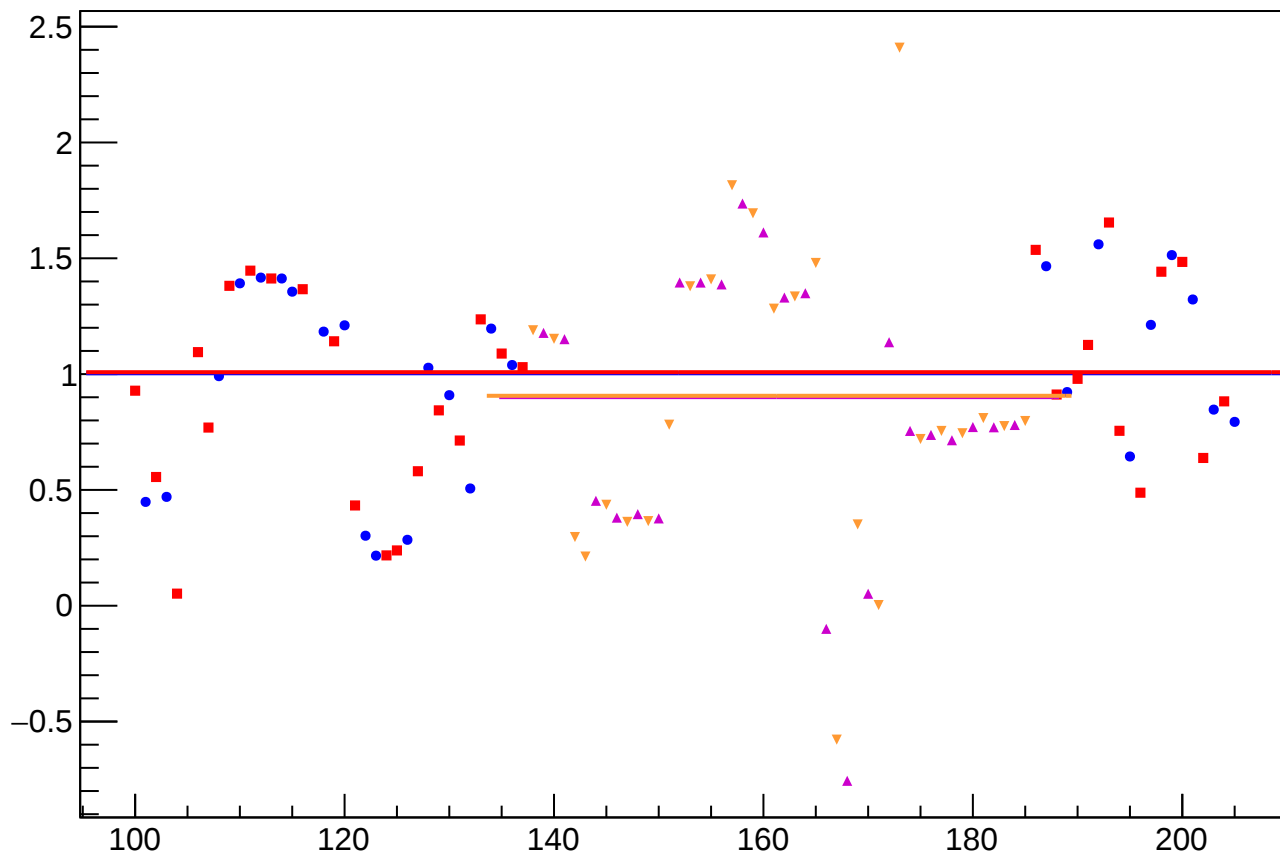
Right: 0.041 $\pm$ 0.000 χ^2 /NDF: 6908226.7/55

In: 0.037 $\pm$ 0.000 χ^2 /NDF:4700362.6/48

Out: 0.037 $\pm$ 0.000 χ^2 /NDF:4222521.3/54

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 8923874.4/103

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.004+/-0.000

χ^2/NDF : 20536489994.1/25

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 1.006+/-0.000 χ^2/NDF : 45871696629.5/55

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 0.947+/-0.000 χ^2/NDF : 88453971279.4/48

Right Out: 1.008+/-0.000

χ^2/NDF : 25333357631.8/29

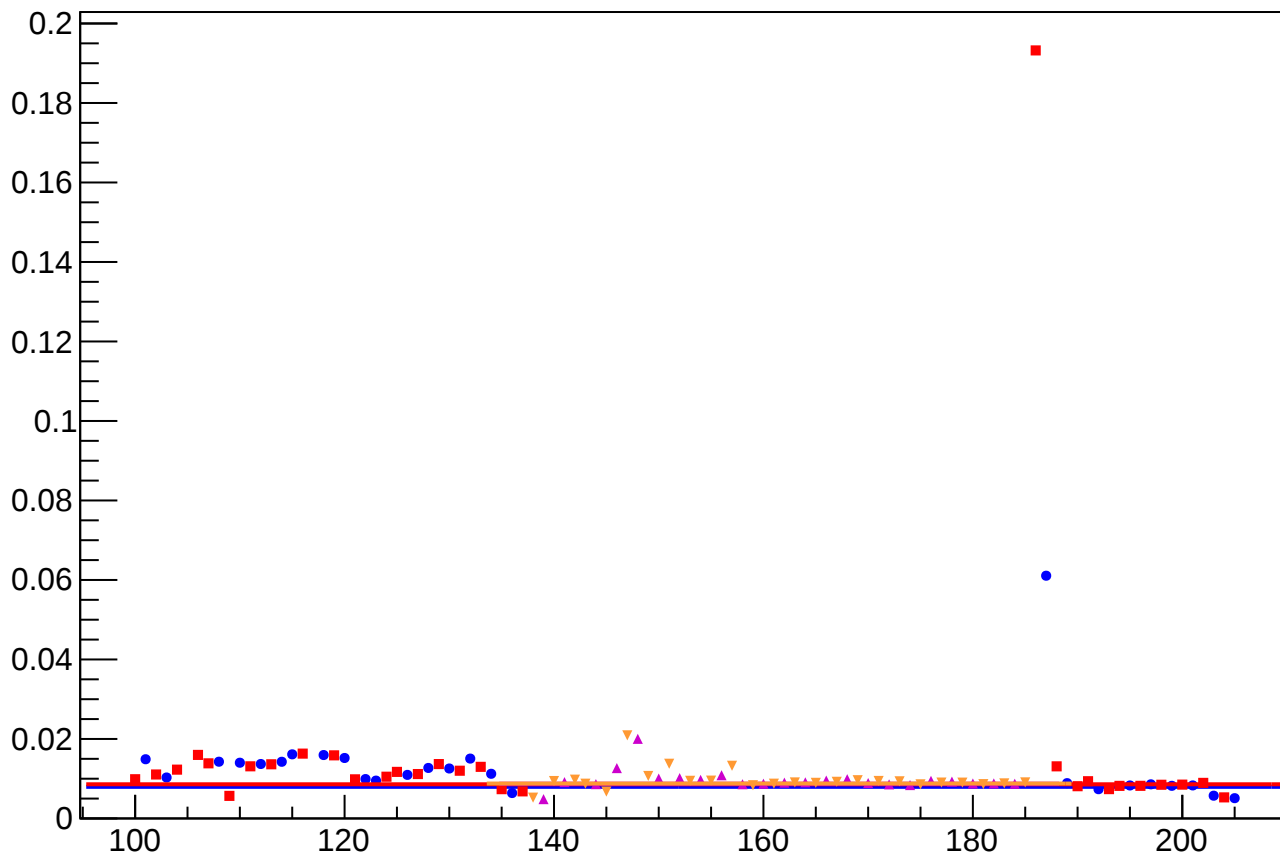
Out: 0.949+/-0.000 χ^2/NDF : 110391014309.9/54

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 0.948+/-0.000 χ^2/NDF : 198845968840.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2721172.8/25

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2795965.3/29

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

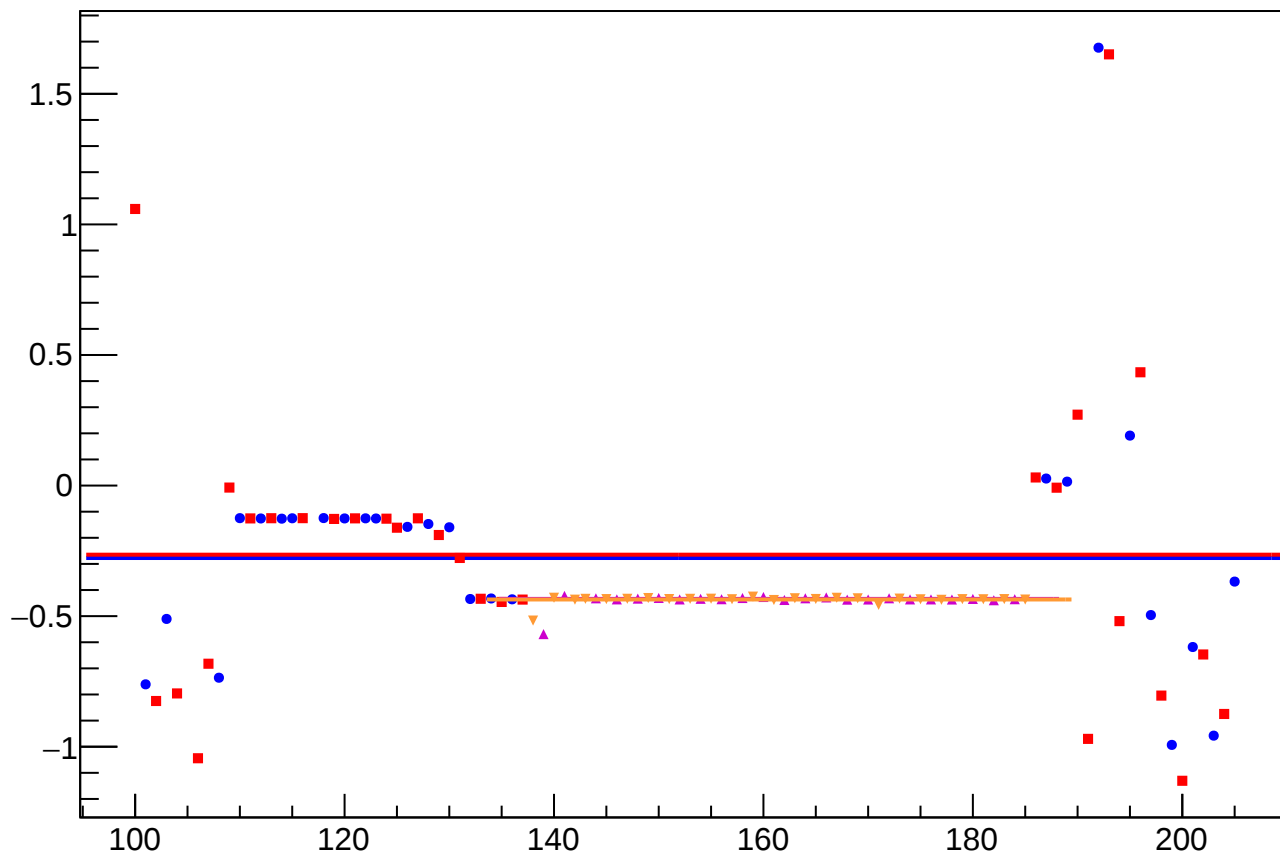
Right: 0.008+/-0.000 χ^2/NDF : 5583834.9/55

In: 0.008+/-0.000 χ^2/NDF : 4503993.1/48

Out: 0.009+/-0.000 χ^2/NDF : 4500846.2/54

All: 0.009+/-0.000 χ^2/NDF : 9043112.8/103

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.277+/-0.000 χ^2/NDF : 2134204557.3/25

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.265+/-0.000 χ^2/NDF : 2155928926.4/29

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

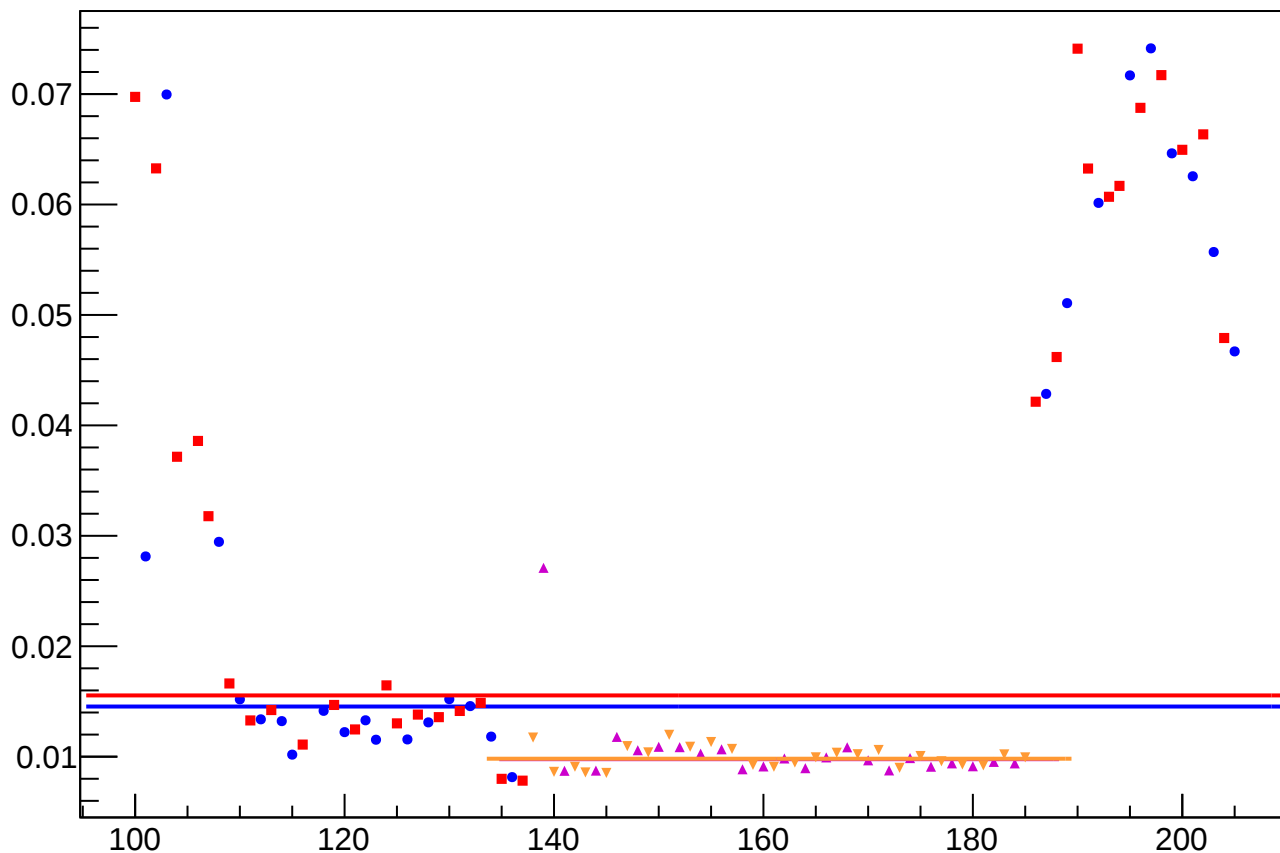
Right: -0.271+/-0.000 χ^2/NDF : 4292773761.7/55

In: -0.406+/-0.000 χ^2/NDF : 2824386294.7/48

Out: -0.408+/-0.000 χ^2/NDF : 2966887662.4/54

All: -0.407+/-0.000 χ^2/NDF : 5791673864.2/100

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 8972192.4/25

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.016+/-0.000 χ^2/NDF : 9828554.4/29

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

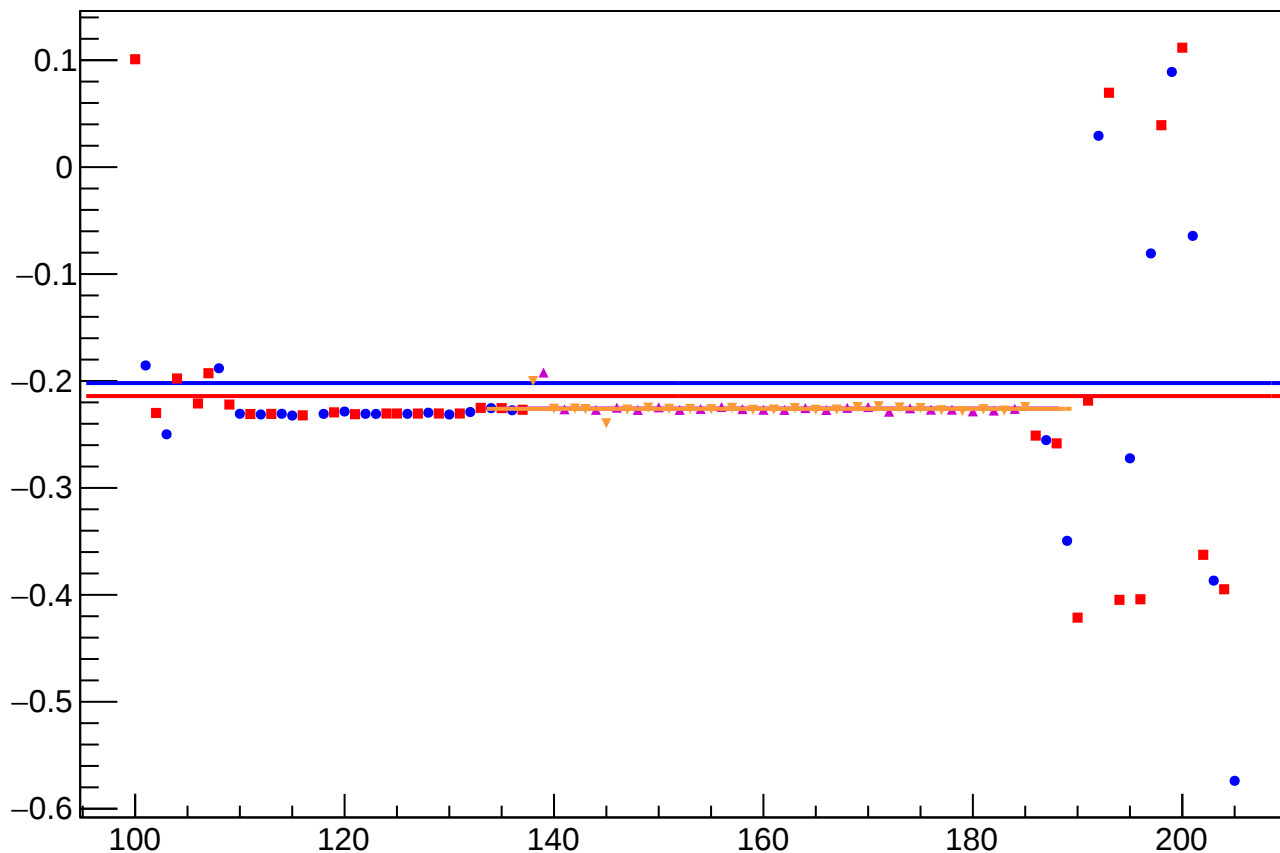
Right: 0.015+/-0.000 χ^2/NDF : 18833581.9/55

In: 0.011+/-0.000 χ^2/NDF : 11001538.5/48

Out: 0.011+/-0.000 χ^2/NDF : 11846073.4/54

All: 0.011+/-0.000 χ^2/NDF : 22850834.8/103

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.202+/-0.000

χ^2/NDF : 7647089190.3/25

Left: -0.226+/-0.000

χ^2/NDF : 34951372.2/47

Left Out: -0.226+/-0.000

χ^2/NDF : 21207366.3/24

Right: -0.208+/-0.000

χ^2/NDF : 16137745629.3/55

Right Out: -0.214+/-0.000

χ^2/NDF : 8458087722.1/29

In: -0.216+/-0.000

χ^2/NDF : 7804364109.7/48

Out: -0.221+/-0.000

χ^2/NDF : 8517785081.0/54

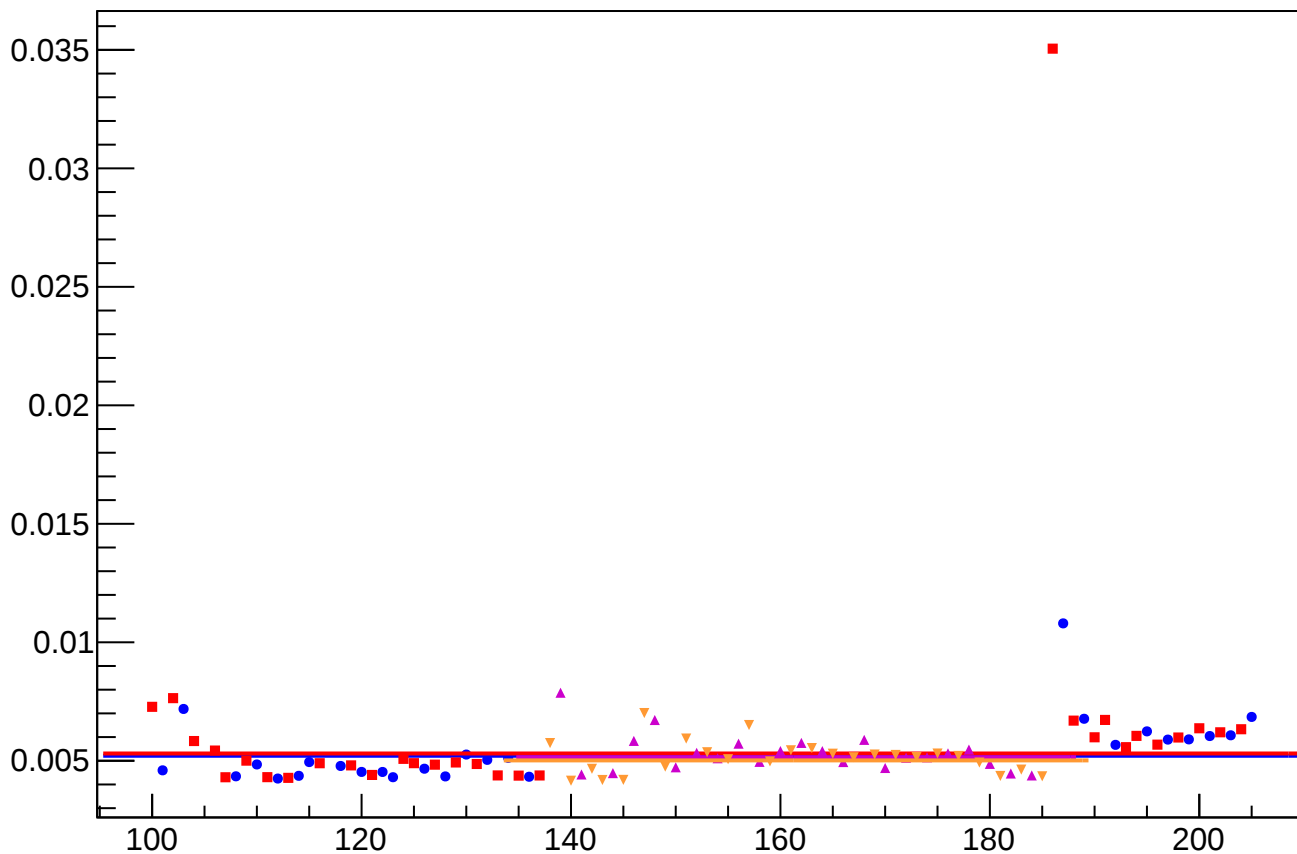
Left In: -0.226+/-0.000

χ^2/NDF : 13717302.5/22

All: -0.219+/-0.000

χ^2/NDF : 16337652975.3/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 693063.7/25

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1168203.0/29

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

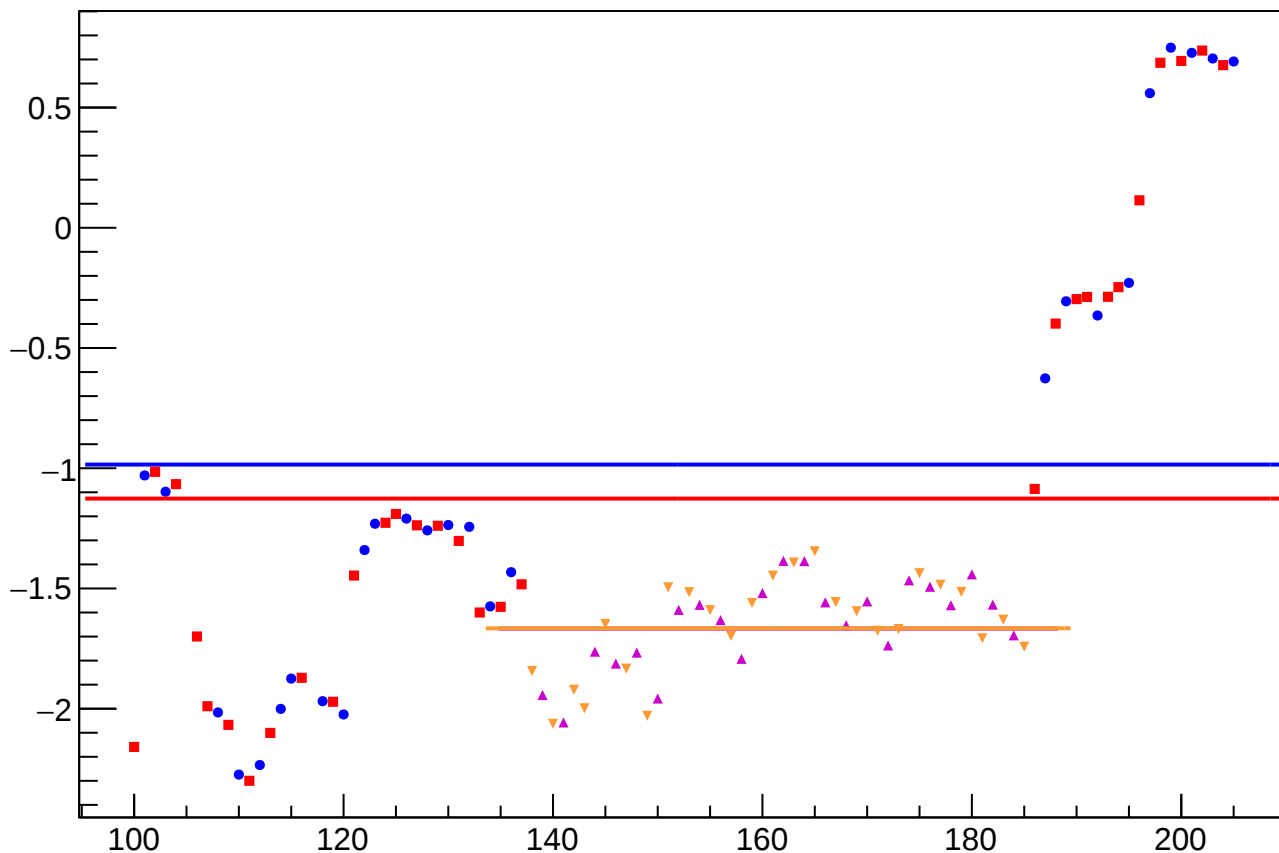
Right: 0.005+/-0.000 χ^2/NDF : 1865244.8/55

In: 0.005+/-0.000 χ^2/NDF : 1199104.8/48

Out: 0.005+/-0.000 χ^2/NDF : 1746966.1/54

All: 0.005+/-0.000 χ^2/NDF : 2948168.8/103

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.985+/-0.000

χ^2/NDF : 162193337877.7/25

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -1.061+/-0.000

χ^2/NDF : 342035171130.4/55

Right Out: -1.126+/-0.000

χ^2/NDF : 177744312026.9/29

In: -1.449+/-0.000

χ^2/NDF : 238224142272.3/48

Out: -1.482+/-0.000

χ^2/NDF : 239960563282.5/54

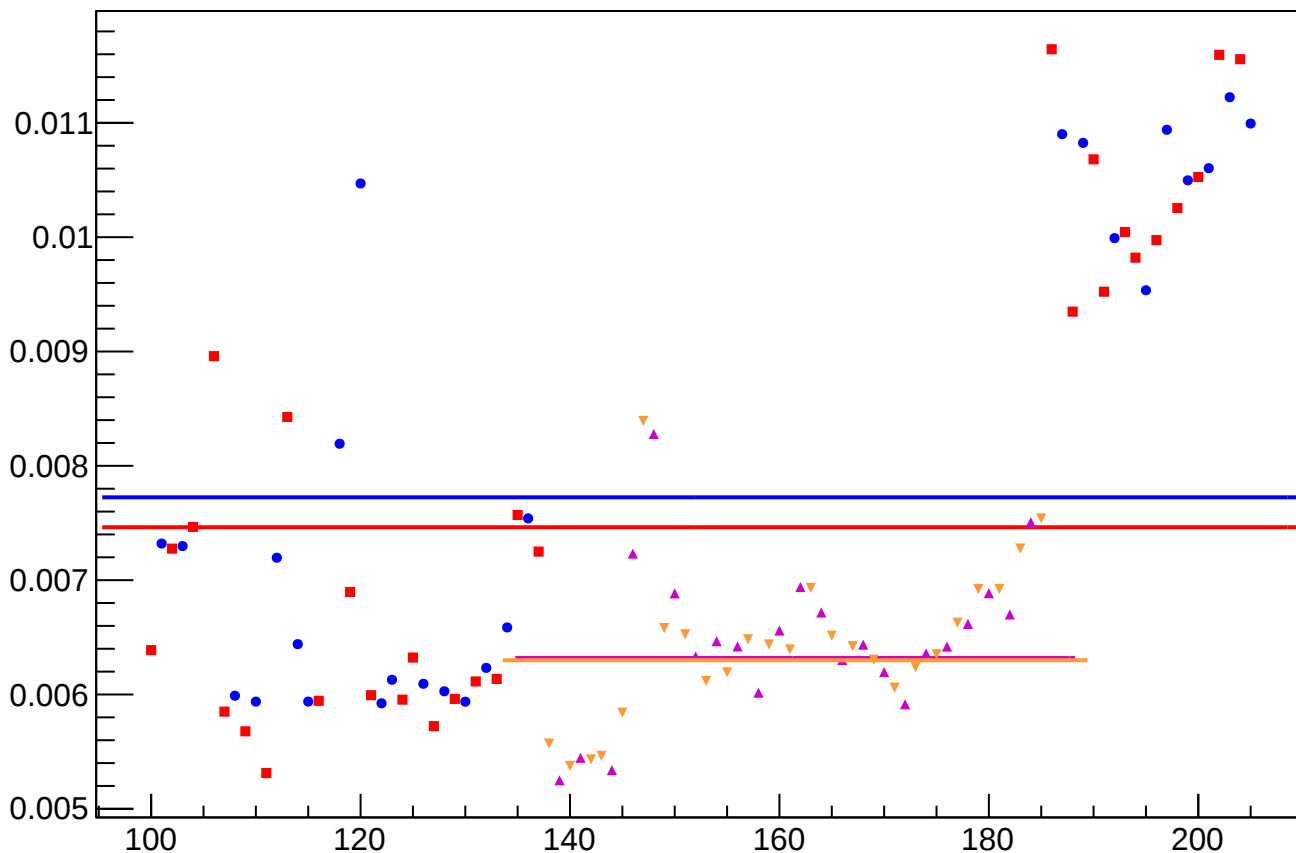
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.466+/-0.000

χ^2/NDF : 478517956077.8

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1426807.7/25

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1722067.4/29

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

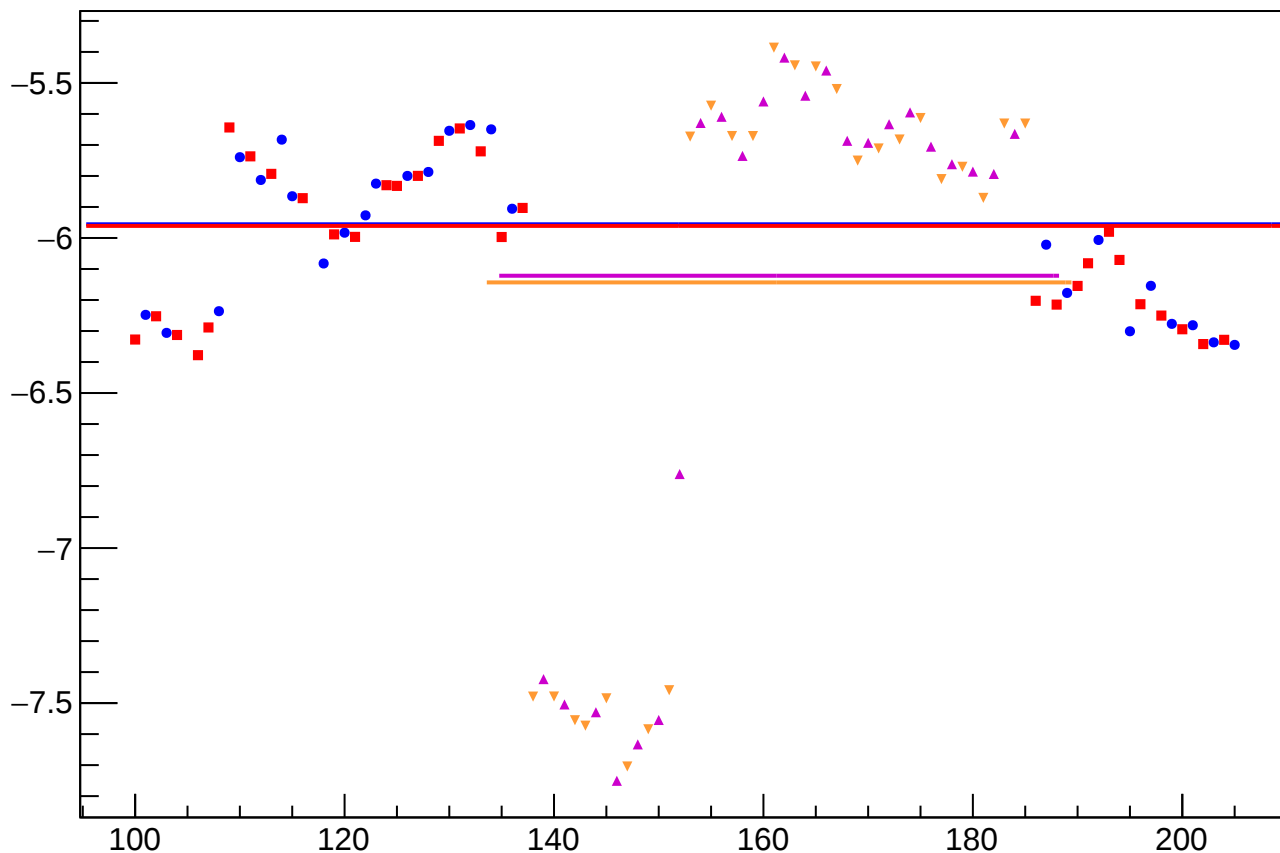
Right: 0.008+/-0.000 χ^2/NDF : 3163229.9/55

In: 0.007+/-0.000 χ^2/NDF :2282646.5/48

Out: 0.007+/-0.000 χ^2/NDF :2442635.6/54

All: 0.007+/-0.000 χ^2/NDF : 4728484.7/103

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.956+/-0.000

χ^2/NDF : 14489103800.6/25

Left: -6.133+/-0.000

χ^2/NDF : 345689393988.1/47

Left Out: -6.143+/-0.000

χ^2/NDF : 185721259239.3/24

Right: -5.959+/-0.000

χ^2/NDF : 30290172663.0/55

Right Out: -5.961+/-0.000

χ^2/NDF : 15797814150.6/29

In: -6.041+/-0.000

χ^2/NDF : 177732696299.1/48

Out: -6.051+/-0.000

χ^2/NDF : 205849724269.0/54

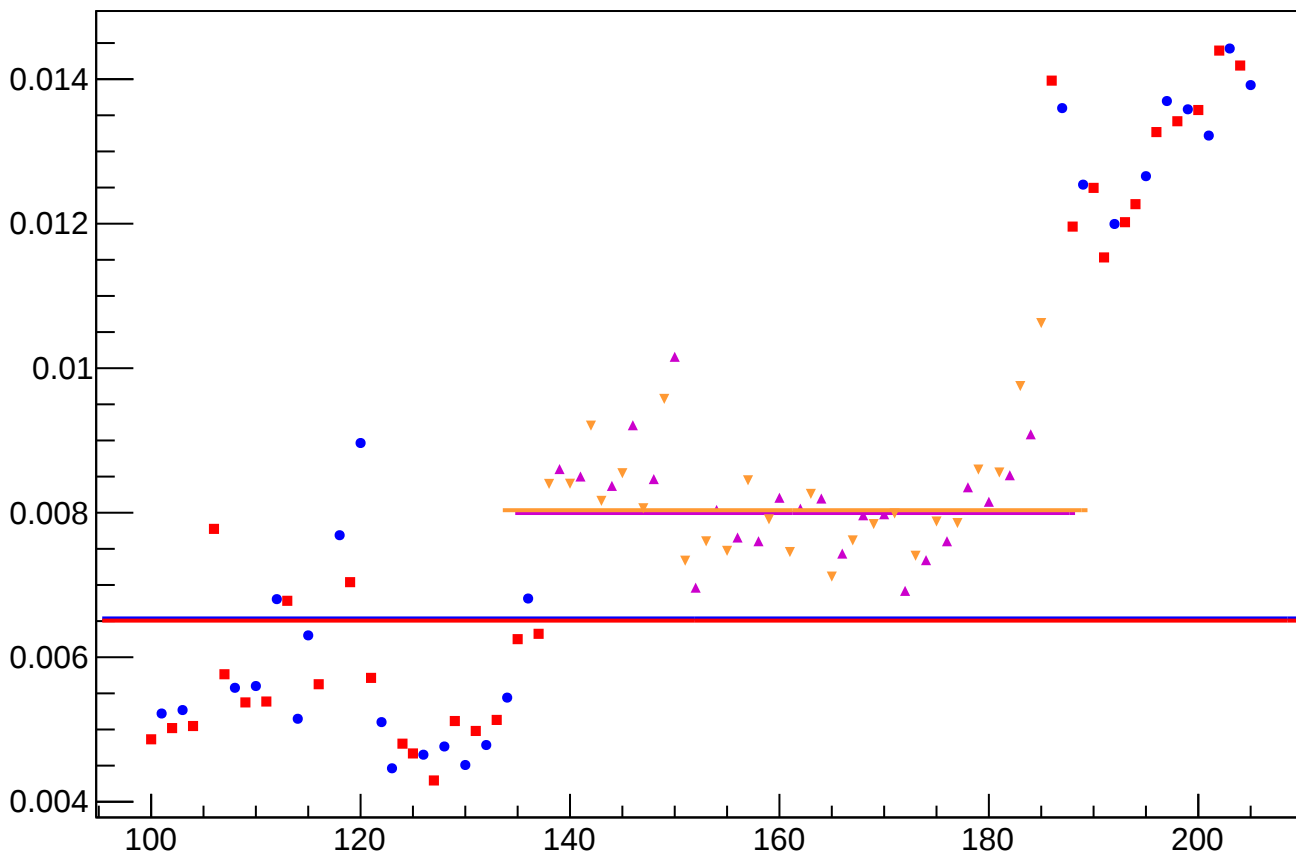
Left In: -6.122+/-0.000

χ^2/NDF : 159909473006.6/22

All: -6.046+/-0.000

χ^2/NDF : 383607892964.0/100

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4002119.9/25

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4254120.7/29

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

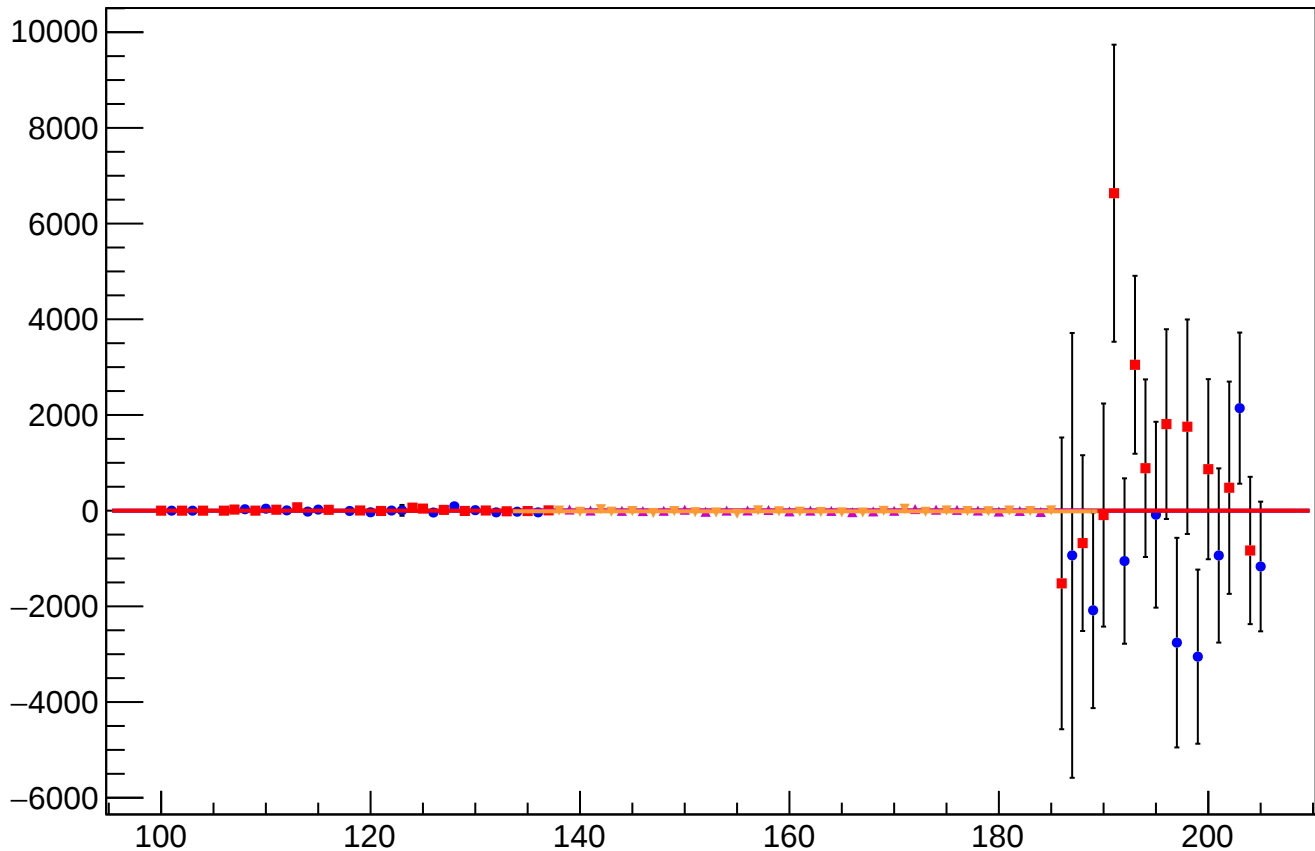
Right: 0.007+/-0.000 χ^2/NDF : 8256464.0/55

In: 0.007+/-0.000 χ^2/NDF :4738277.2/48

Out: 0.007+/-0.000 χ^2/NDF :5068481.3/54

All: 0.007+/-0.000 χ^2/NDF : 9807042.1/103

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013+/-0.017 χ^2/NDF : 25.0/25

Left Out: -13.472+/-2.796 χ^2/NDF :58.5/24

Right Out: -0.003+/-0.016 χ^2/NDF : 24.8/29

Left In: 0.489+/-2.905 χ^2/NDF :28.7/22

Left: -6.758+/-2.015 χ^2/NDF : 99.2/47

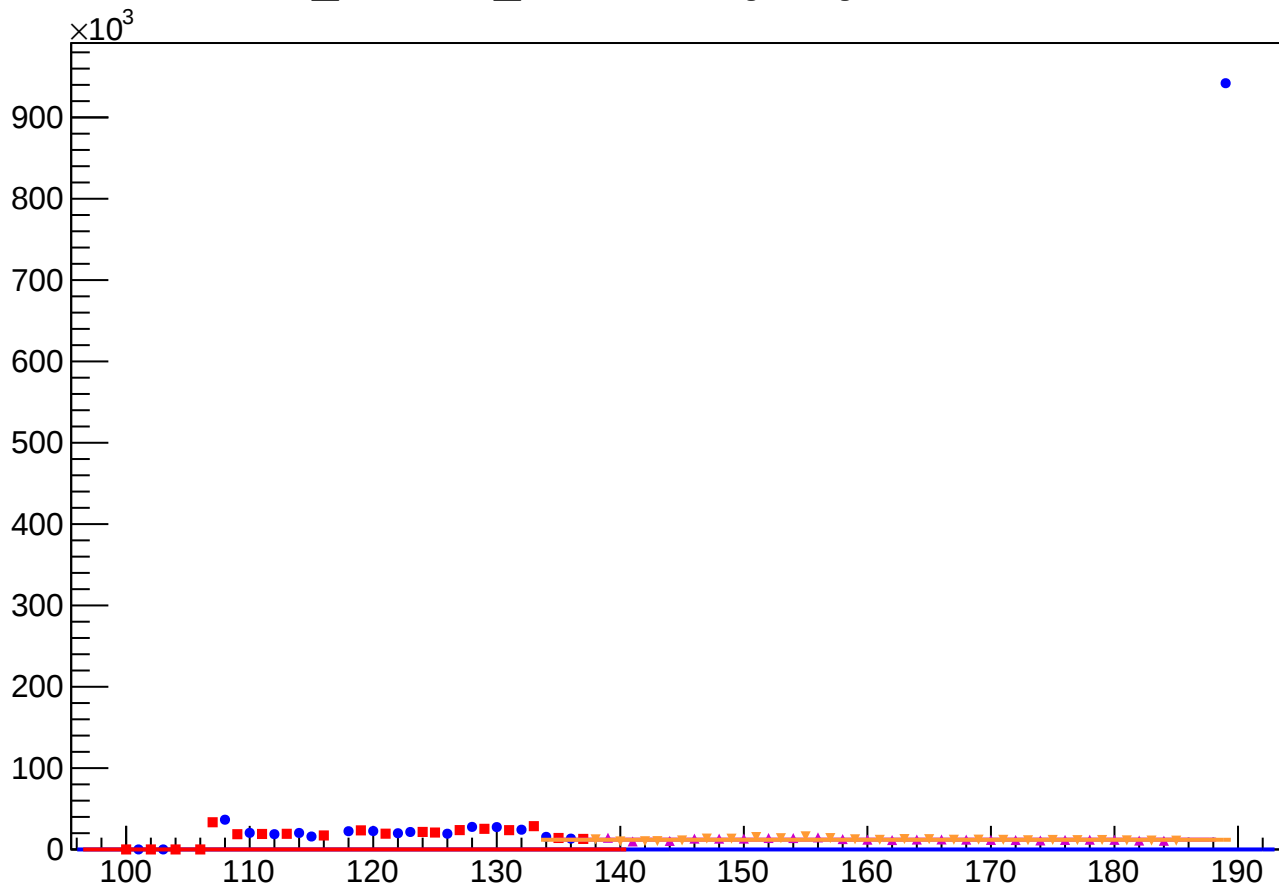
Right: 0.004+/-0.012 χ^2/NDF : 50.3/55

In: 0.013+/-0.017 χ^2/NDF :53.7/48

Out: -0.004+/-0.016 χ^2/NDF :106.5/54

All: 0.004+/-0.012 χ^2/NDF : 160.7/103

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

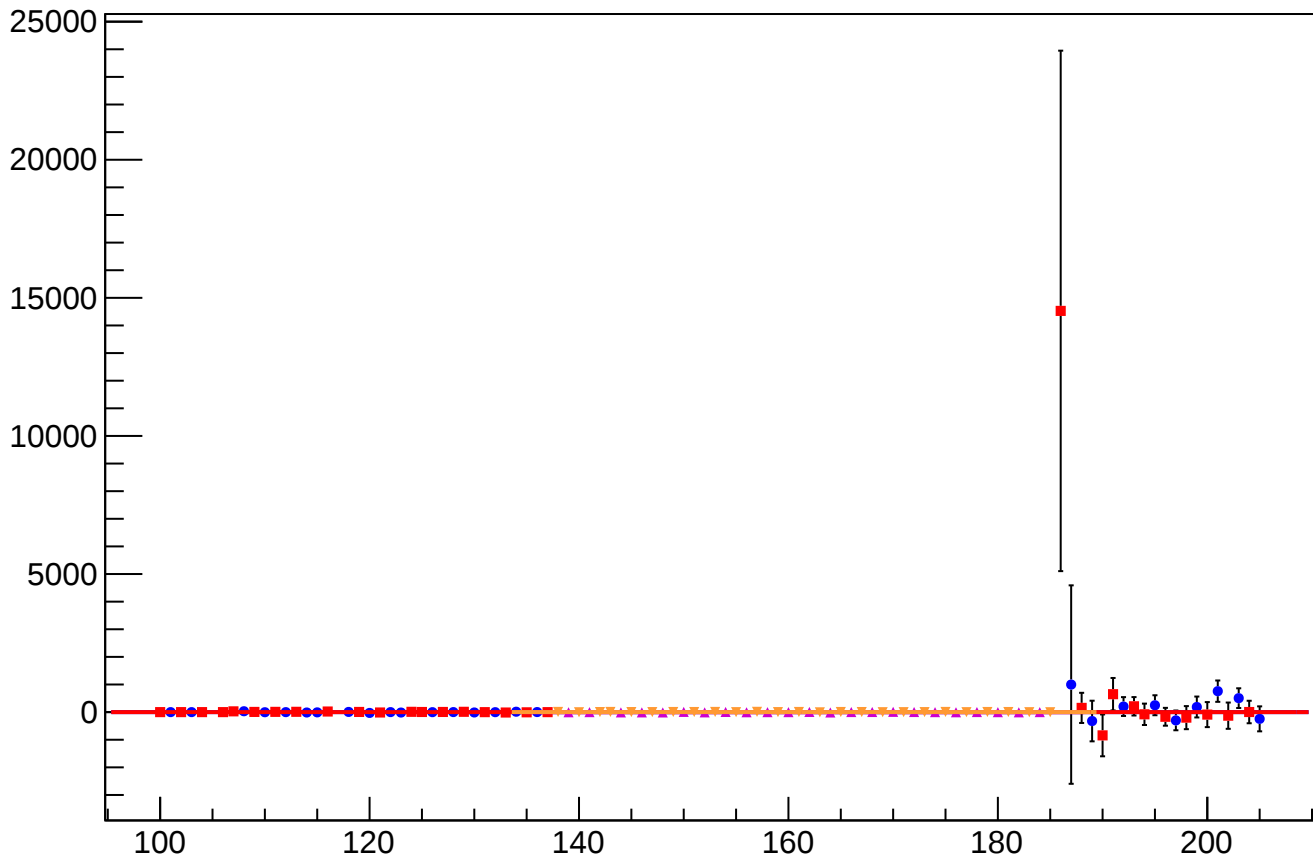
Right: 18.463 $\pm$ 0.008 χ^2 /NDF: 22039209.8/36

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 ± 0.009 χ^2/NDF : 22.8/25

Left Out: 1.675 ± 1.021 χ^2/NDF : 17.9/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 24.6/29

Left In: -0.843 ± 1.043 χ^2/NDF : 35.7/22

Left: 0.443 ± 0.730 χ^2/NDF : 56.5/47

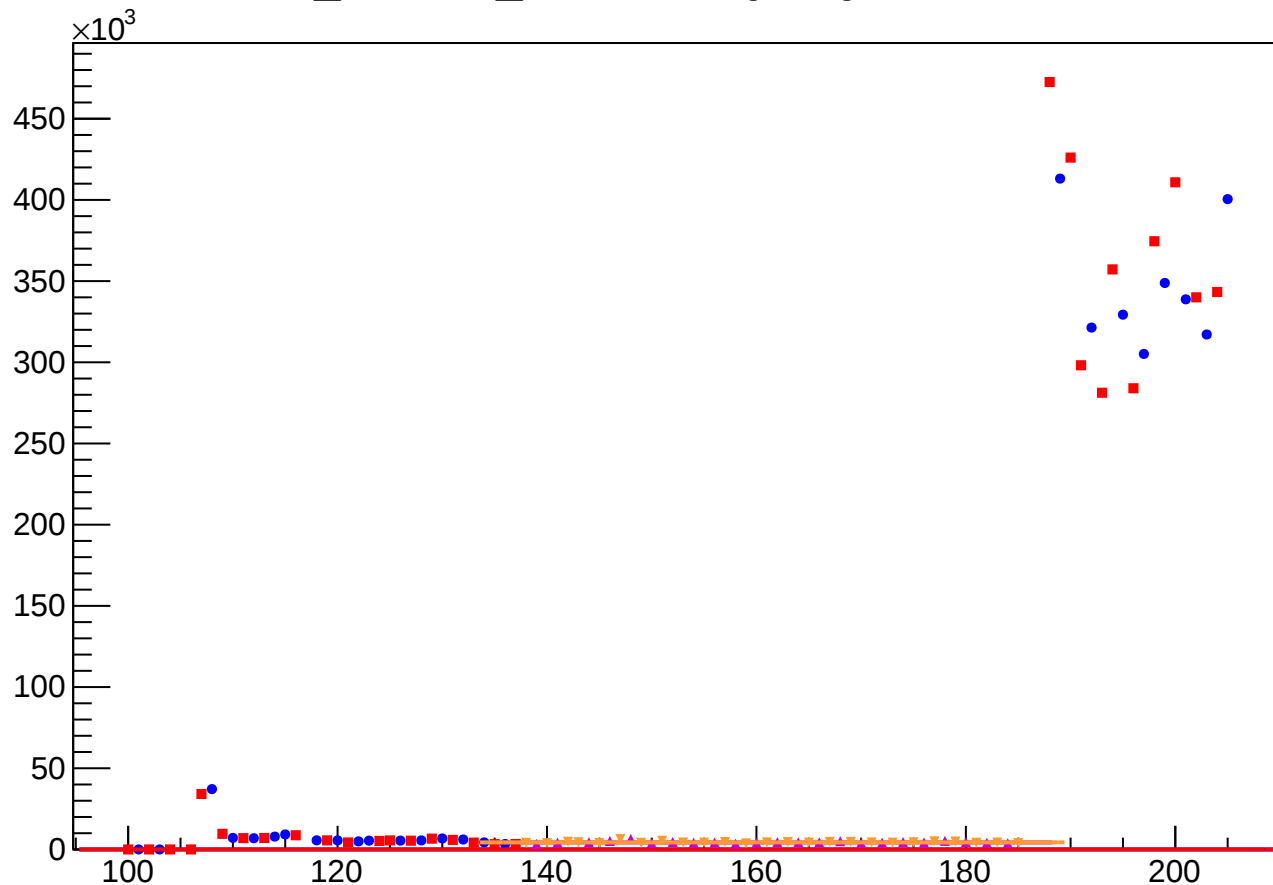
Right: -0.007 ± 0.006 χ^2/NDF : 48.8/55

In: 0.001 ± 0.009 χ^2/NDF : 59.1/48

Out: -0.014 ± 0.009 χ^2/NDF : 45.2/54

All: -0.007 ± 0.006 χ^2/NDF : 105.7/103

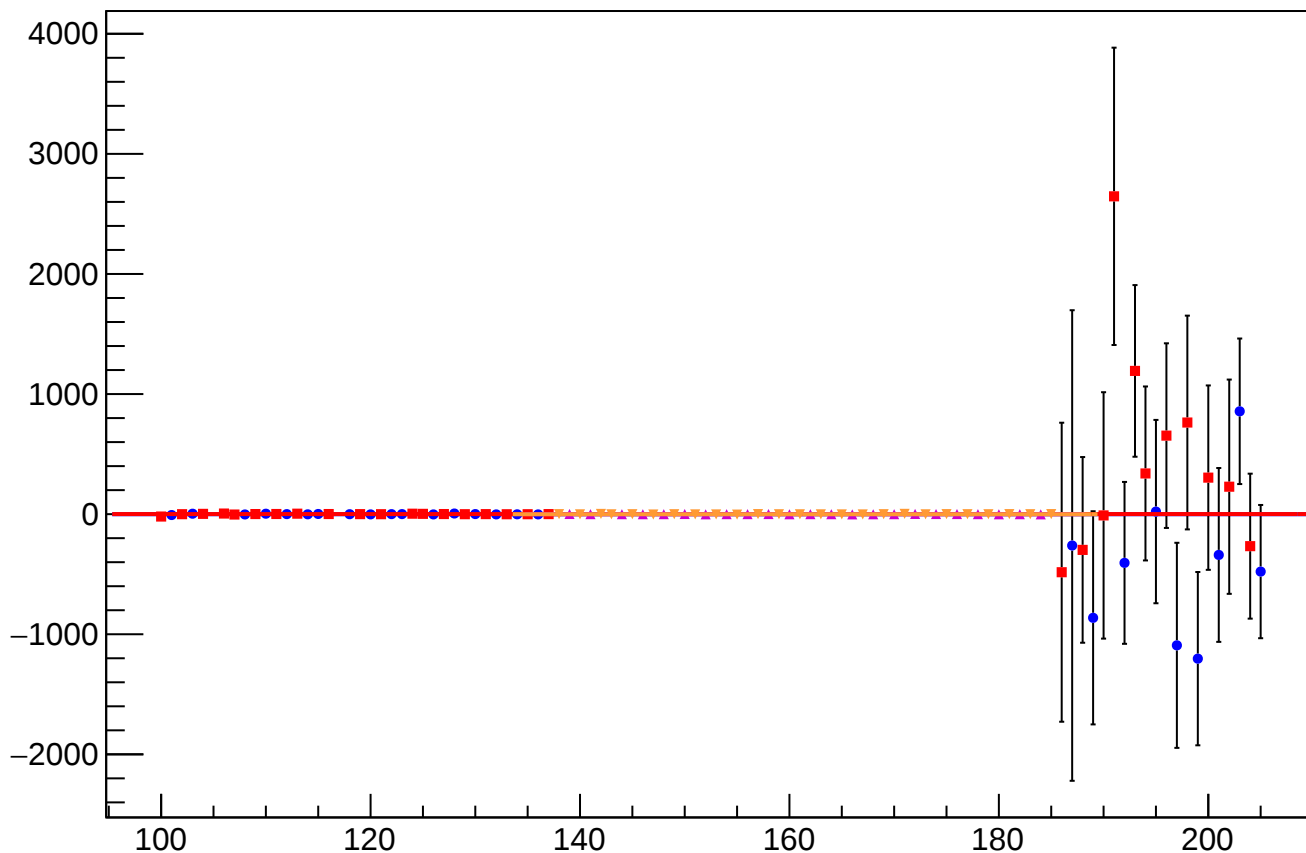
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.939 $\pm$ 0.007 χ^2 /NDF: 22815708.1/24
 Left Out: 4350.545 $\pm$ 0.722 χ^2 /NDF:384749.0/24
 Right Out: 9.855 $\pm$ 0.006 χ^2 /NDF: 24095410.5/28
 Left In: 4314.568 $\pm$ 0.738 χ^2 /NDF:534594.3/22

Left: 4332.940 $\pm$ 0.516 χ^2 /NDF: 920558.3/47
 Right: 9.895 $\pm$ 0.004 χ^2 /NDF: 46911206.8/53
 In: 10.274 $\pm$ 0.007 χ^2 /NDF:57411717.2/47
 Out: 10.167 $\pm$ 0.006 χ^2 /NDF:60625120.4/53
 All: 10.217 $\pm$ 0.004 χ^2 /NDF: 118036981.9/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.703 $\pm$ 0.485 χ^2/NDF : 31.2/25

Left Out: -0.774 $\pm$ 0.164 χ^2/NDF : 58.4/24

Right Out: 0.762 $\pm$ 0.502 χ^2/NDF : 21.5/29

Left In: 0.020 $\pm$ 0.170 χ^2/NDF : 29.2/22

Left: -0.391 $\pm$ 0.118 χ^2/NDF : 98.9/47

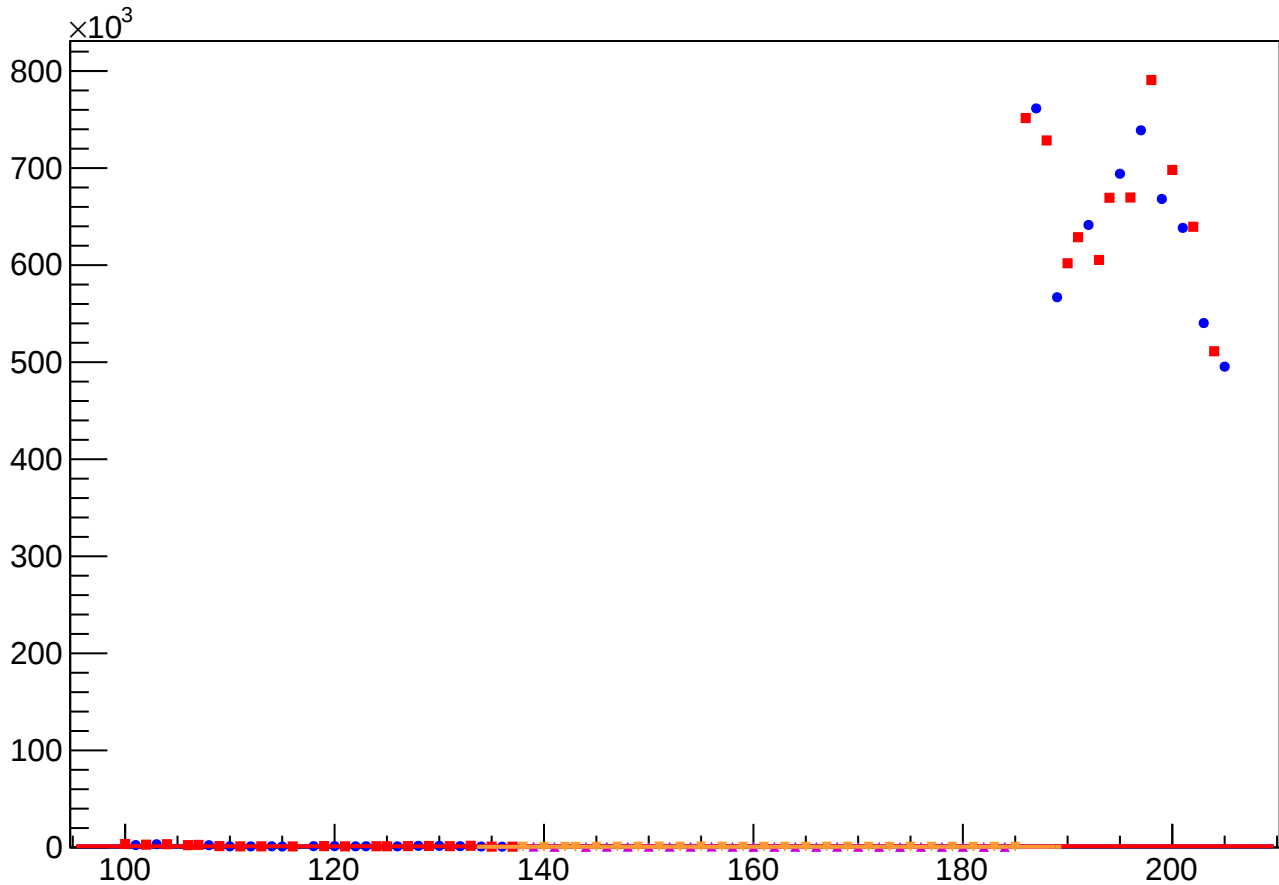
Right: 0.004 $\pm$ 0.349 χ^2/NDF : 57.1/55

In: -0.059 $\pm$ 0.161 χ^2/NDF : 62.4/48

Out: -0.626 $\pm$ 0.156 χ^2/NDF : 88.3/54

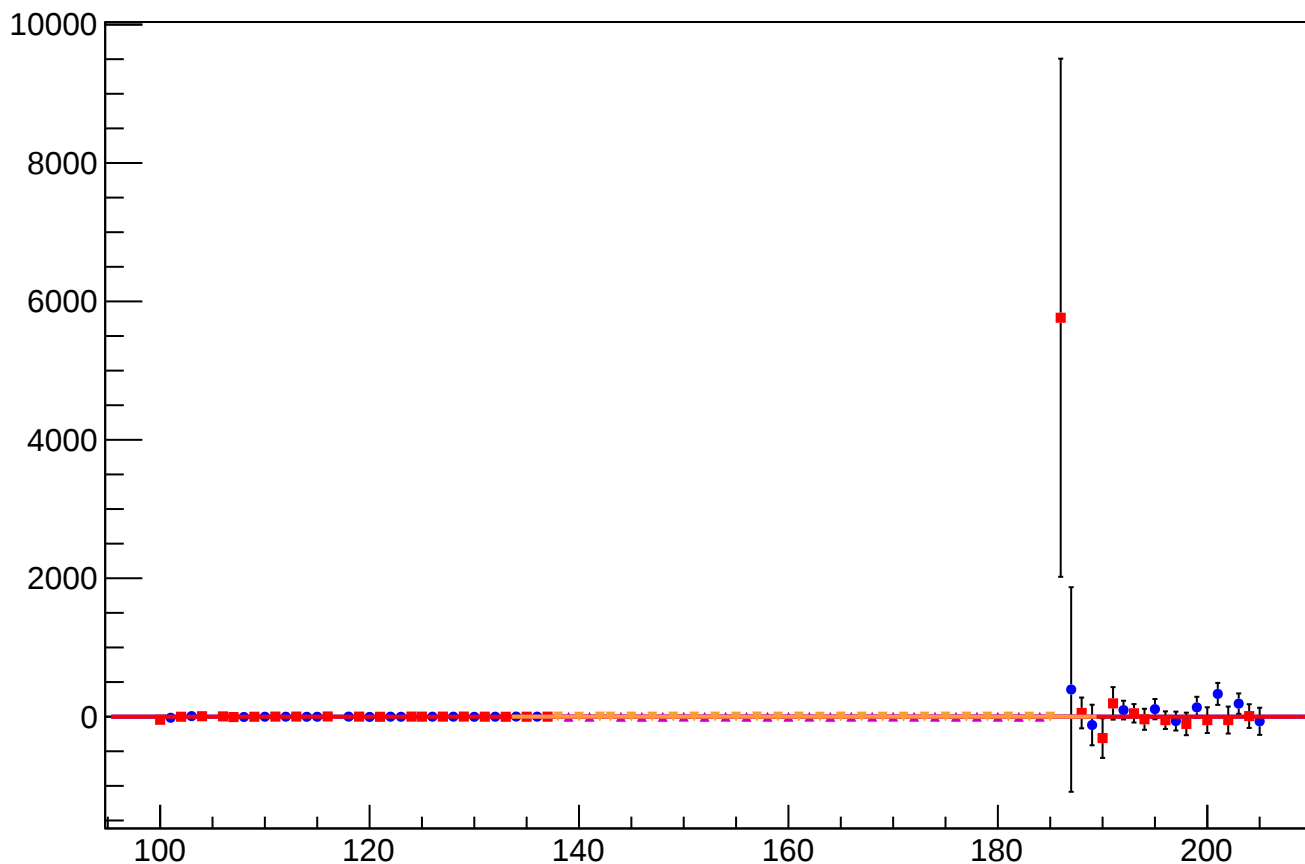
All: -0.350 $\pm$ 0.112 χ^2/NDF : 157.1/103

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1166.586 ± 0.343 $\chi^2/\text{NDF}: 14068568.1/25$ Left: 703.766 ± 0.084 $\chi^2/\text{NDF}: 732052.1/47$
 Left Out: 700.797 ± 0.116 $\chi^2/\text{NDF}: 392521.4/24$ Right: 1207.787 ± 0.247 $\chi^2/\text{NDF}: 29664432.6/55$
 Right Out: 1251.942 ± 0.355 $\chi^2/\text{NDF}: 15565964.7/29$ In: 757.304 ± 0.114 $\chi^2/\text{NDF}: 16006155.9/48$
 Left In: 706.950 ± 0.120 $\chi^2/\text{NDF}: 338177.1/22$ Out: 754.106 ± 0.110 $\chi^2/\text{NDF}: 18135259.6/54$
 All: 755.661 ± 0.079 $\chi^2/\text{NDF}: 34141823.4/10$

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.057 ± 0.271 χ^2/NDF : 29.2/25

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.245 ± 0.265 χ^2/NDF : 25.9/29

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

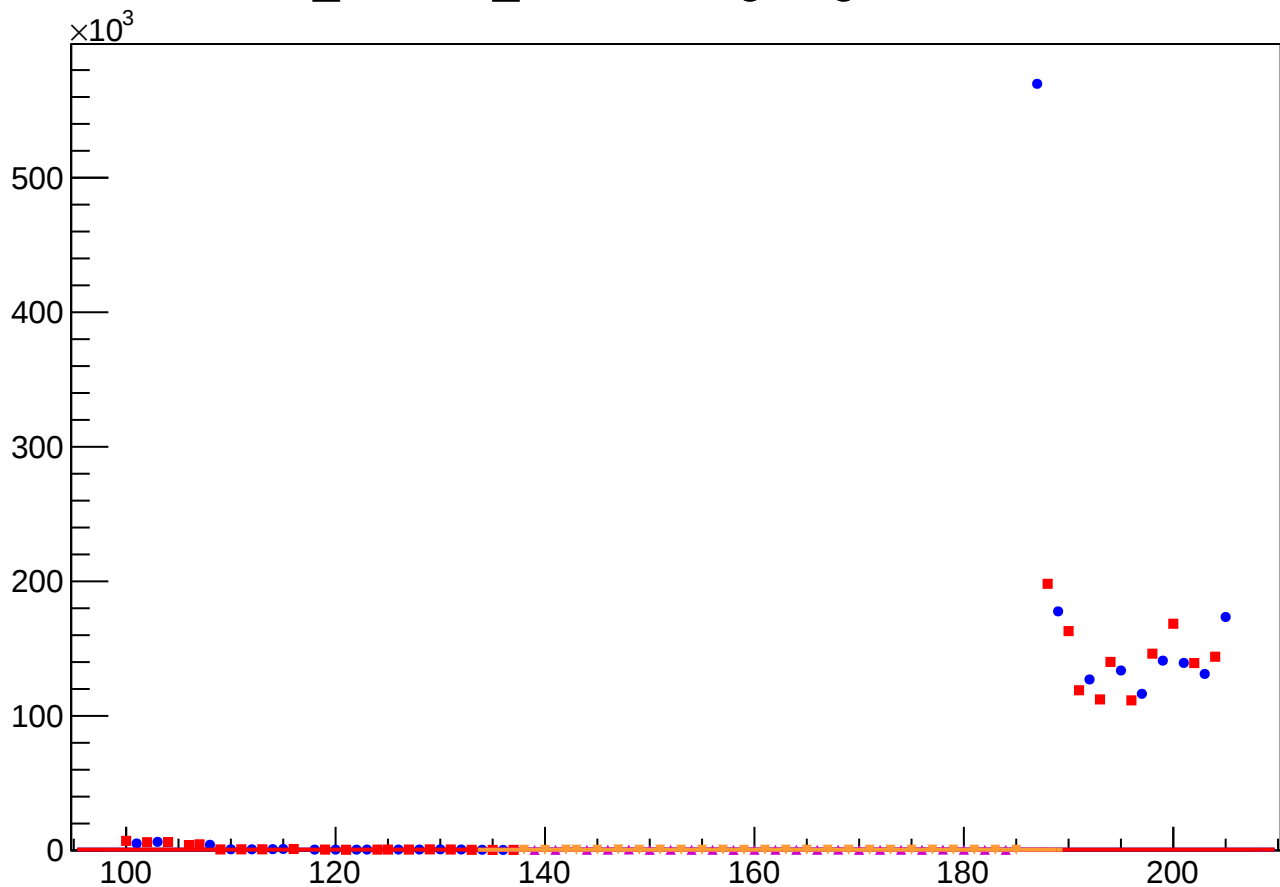
Right: -0.153 ± 0.189 χ^2/NDF : 55.4/55

In: -0.105 ± 0.114 χ^2/NDF : 64.2/48

Out: 0.151 ± 0.111 χ^2/NDF : 46.2/54

All: 0.026 ± 0.080 χ^2/NDF : 113.0/103

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 611.785 $\pm$ 0.191 χ^2/NDF : 15340310.6/25

Left Out: 522.416 $\pm$ 0.087 χ^2/NDF : 331573.1/24

Right Out: 602.961 $\pm$ 0.187 χ^2/NDF : 16552818.3/28

Left In: 519.909 $\pm$ 0.089 χ^2/NDF : 444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2/NDF : 776728.3/47

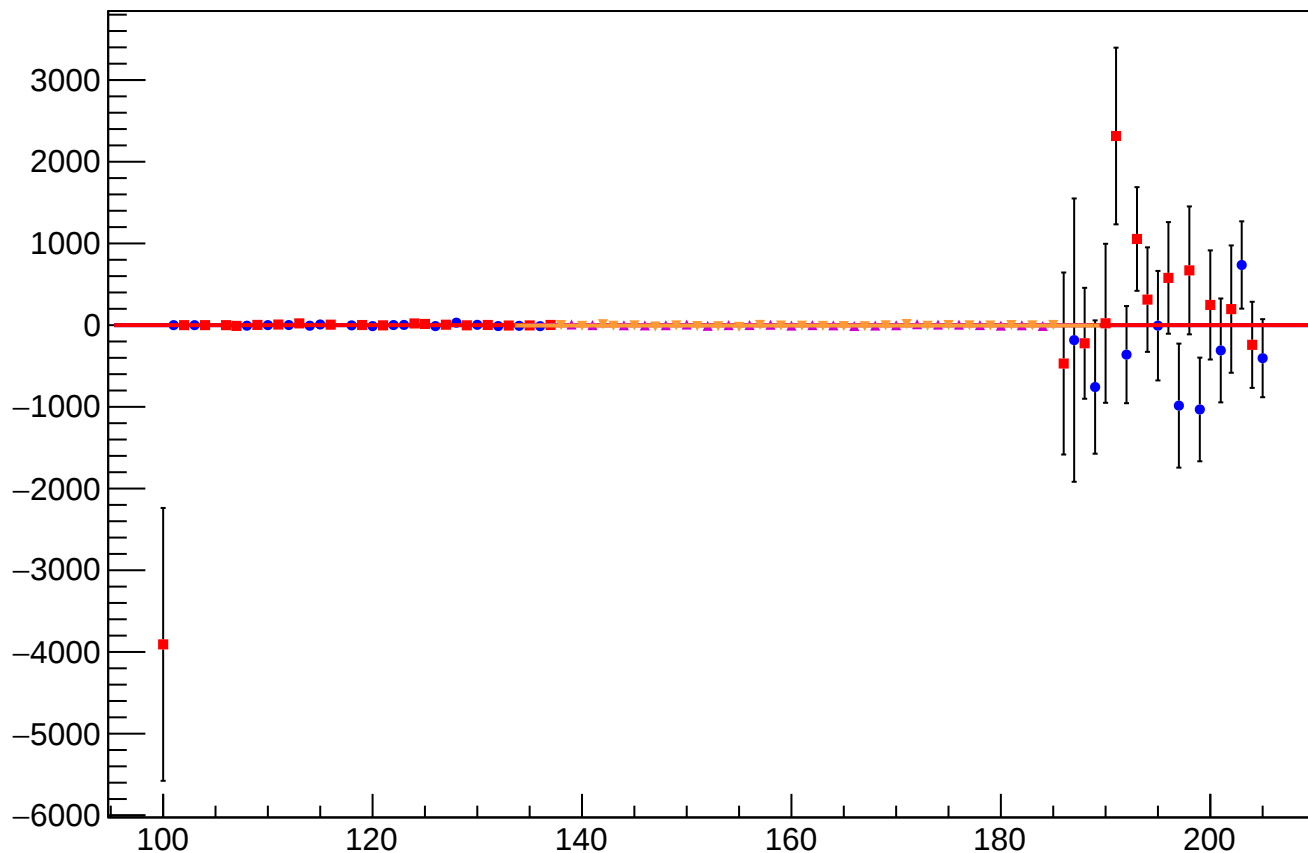
Right: 607.279 $\pm$ 0.134 χ^2/NDF : 31894215.5/54

In: 536.175 $\pm$ 0.081 χ^2/NDF : 15974848.3/48

Out: 536.608 $\pm$ 0.079 χ^2/NDF : 17036776.9/53

All: 536.397 $\pm$ 0.056 χ^2/NDF : 33011640.0/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2/NDF : 24.1/25

Left Out: -4.474 $\pm$ 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 $\pm$ 0.020 χ^2/NDF : 26.5/29

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

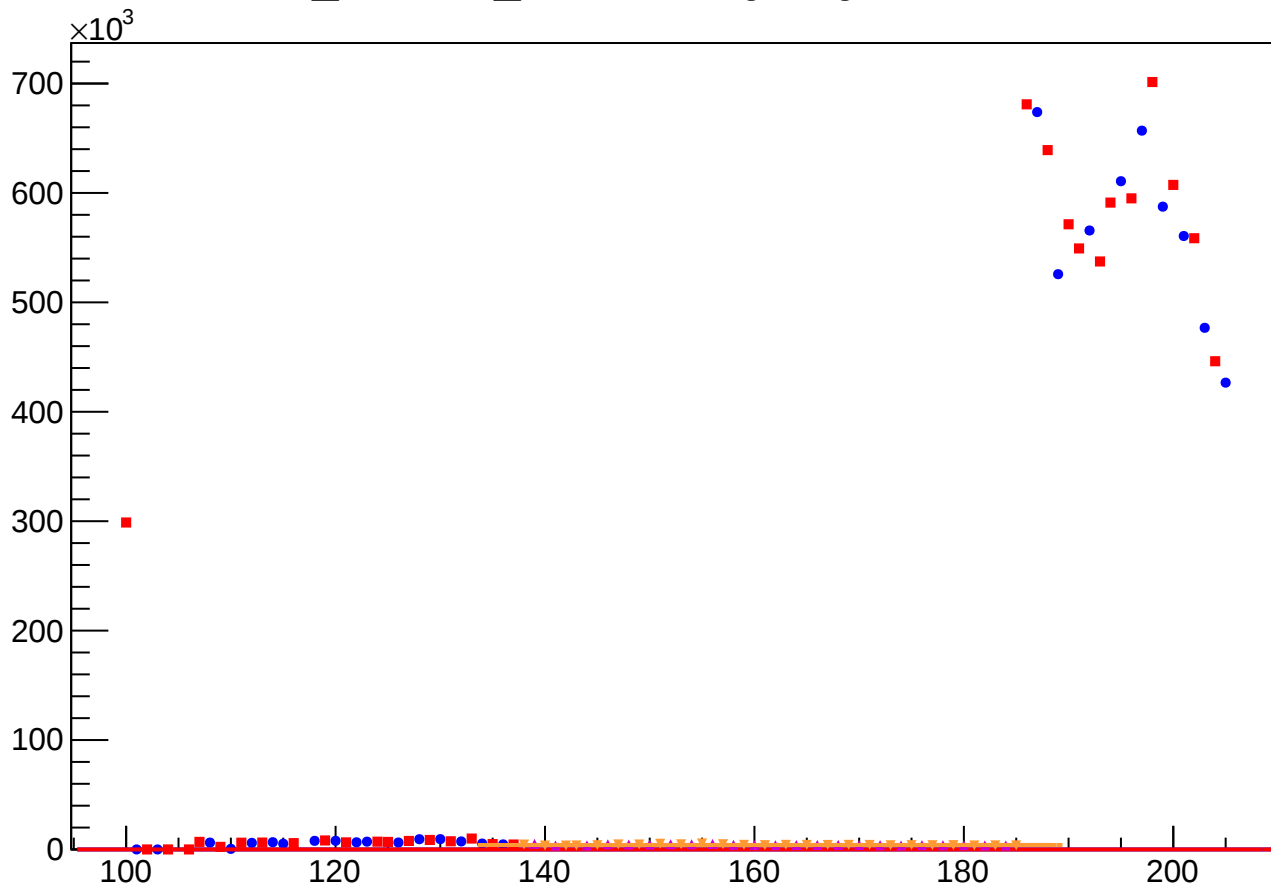
Right: 0.004 $\pm$ 0.014 χ^2/NDF : 53.4/55

In: -0.022 $\pm$ 0.021 χ^2/NDF : 53.3/48

Out: 0.025 $\pm$ 0.020 χ^2/NDF : 106.9/54

All: 0.003 $\pm$ 0.014 χ^2/NDF : 162.9/103

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.340+/-0.015 χ^2/NDF : 22874575.3/25

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.272+/-0.014 χ^2/NDF : 24844920.3/29

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

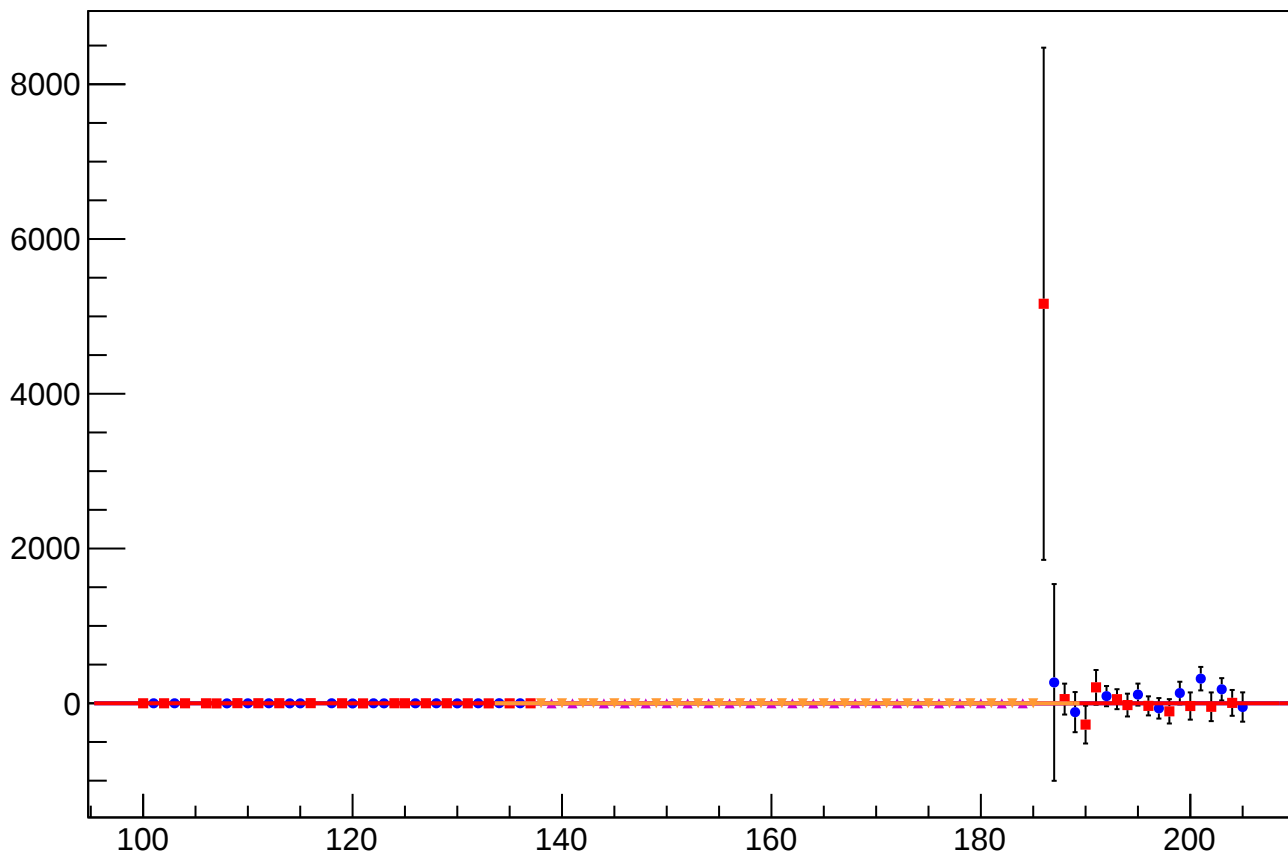
Right: 17.304+/-0.010 χ^2/NDF : 47719507.0/55

In: 19.146+/-0.015 χ^2/NDF : 57443740.7/48

Out: 19.009+/-0.014 χ^2/NDF : 61297831.9/54

All: 19.074+/-0.010 χ^2/NDF : 118741618.5/100

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 23.8/25

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 23.5/29

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

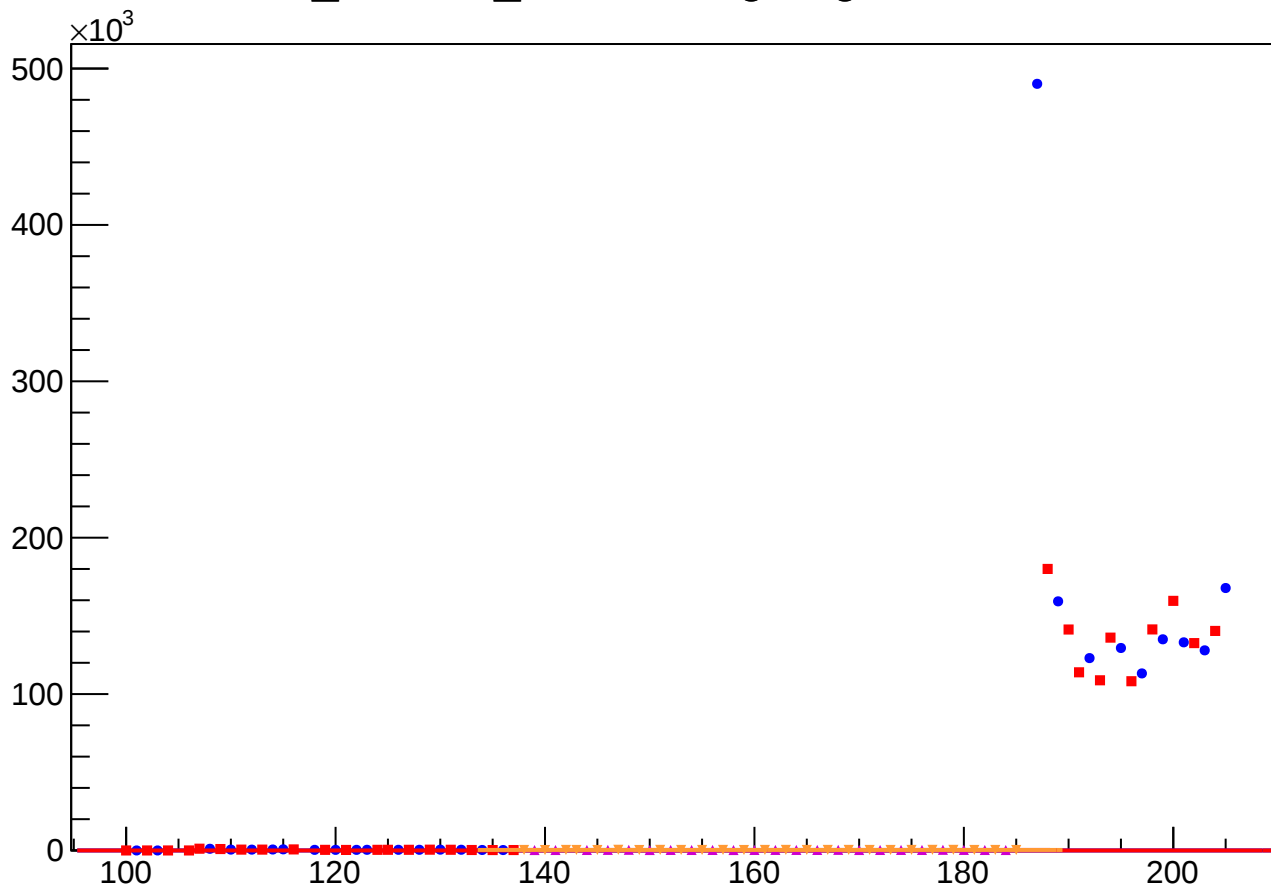
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 47.4/55

In: 0.000 $\pm$ 0.002 χ^2 /NDF:59.5/48

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:44.2/54

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 103.8/103

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2 /NDF: 23198624.4/25

Left Out: 325.469 $\pm$ 0.054 χ^2 /NDF: 350046.8/24

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 23863976.0/28

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

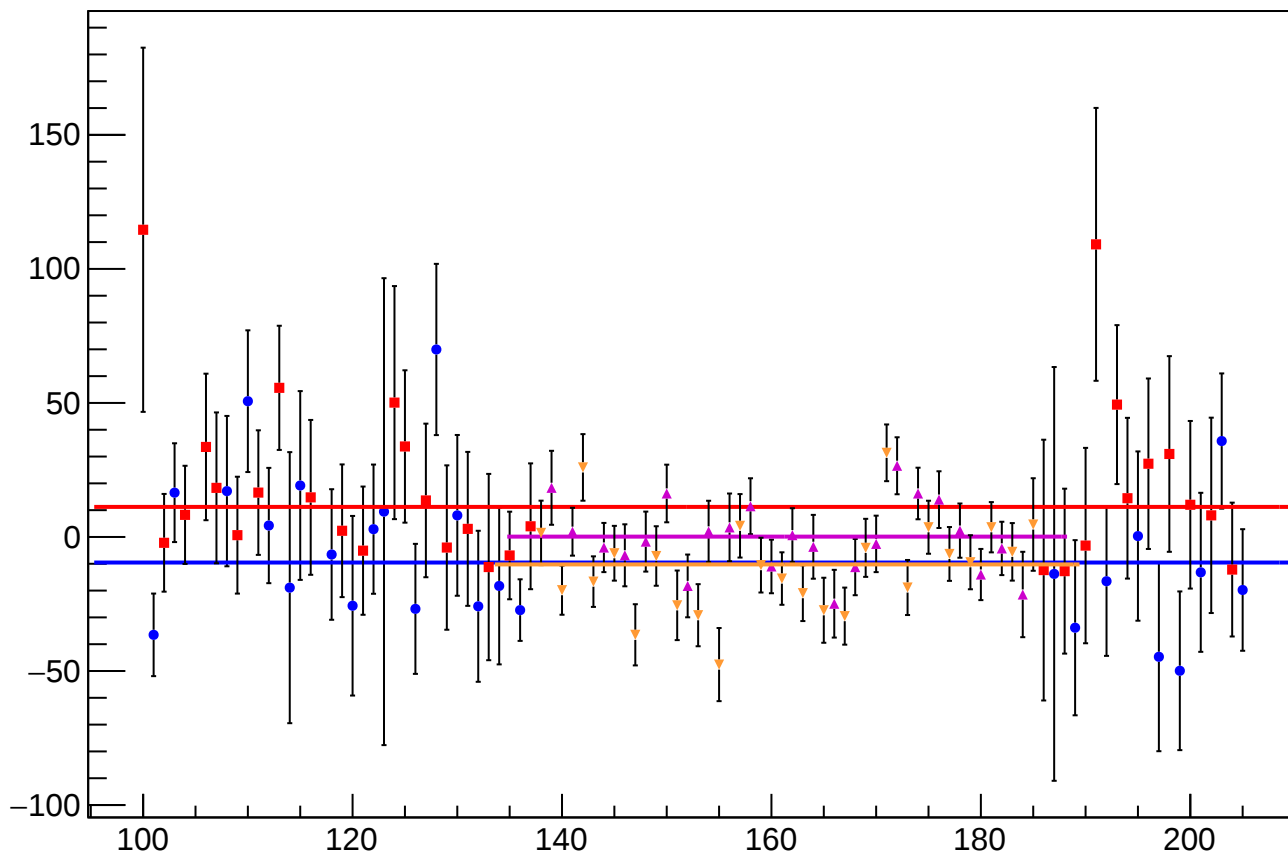
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 47062827.3/54

In: 1.914 $\pm$ 0.001 χ^2 /NDF: 57602051.0/48

Out: 1.937 $\pm$ 0.001 χ^2 /NDF: 60171789.1/53

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 117773977.9/102

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.536 ± 4.912 χ^2/NDF : 29.7/25

Left Out: -10.235 ± 2.167 χ^2/NDF : 58.0/24

Right Out: 11.217 ± 4.948 χ^2/NDF : 19.5/29

Left In: 0.130 ± 2.242 χ^2/NDF : 29.8/22

Left: -5.230 ± 1.558 χ^2/NDF : 98.9/47

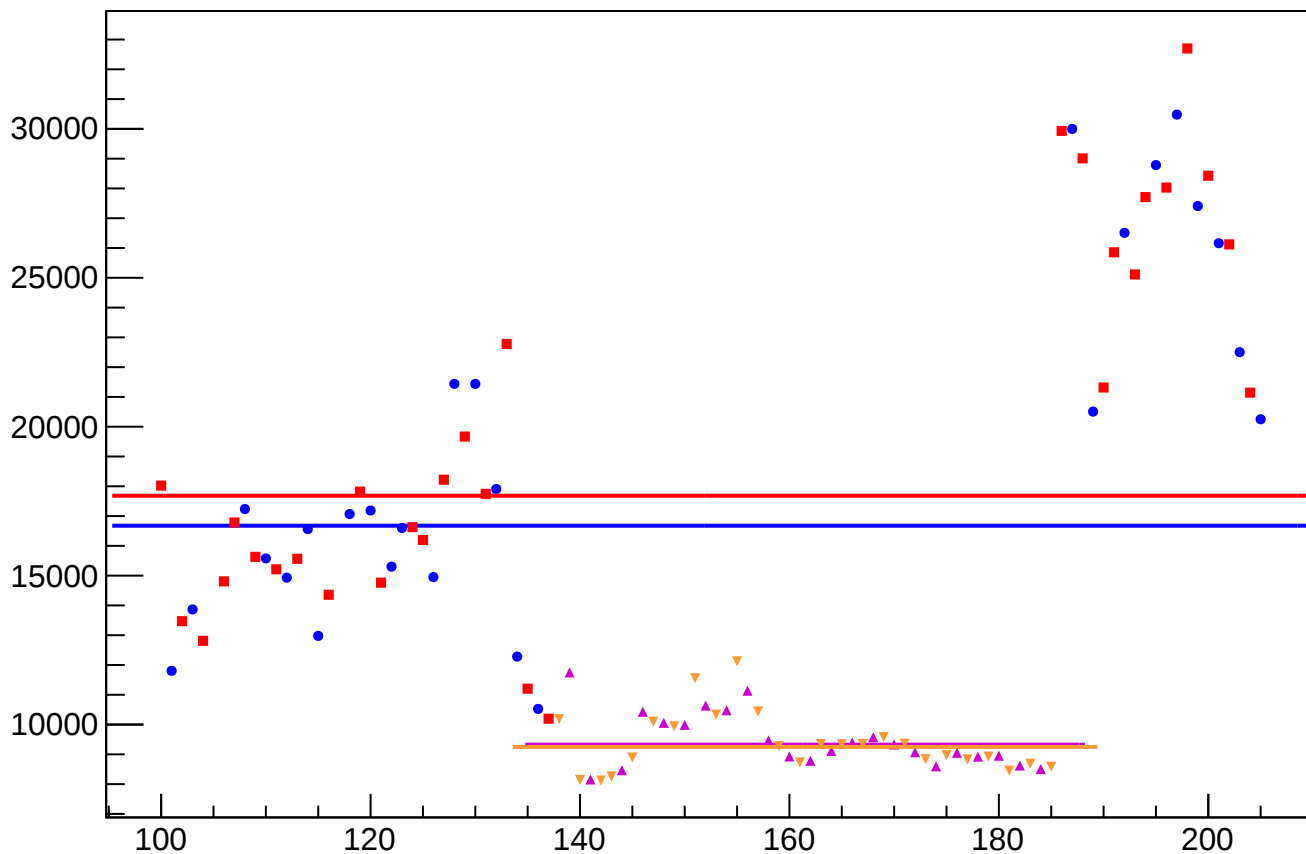
Right: 0.765 ± 3.486 χ^2/NDF : 58.1/55

In: -1.537 ± 2.040 χ^2/NDF : 62.7/48

Out: -6.783 ± 1.985 χ^2/NDF : 93.3/54

All: -4.232 ± 1.422 χ^2/NDF : 159.4/103

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16676.657 $\pm$ 3.473 χ^2 /NDF: 2582704.9/25

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 17683.987 $\pm$ 3.499 χ^2 /NDF: 2713814.0/29

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

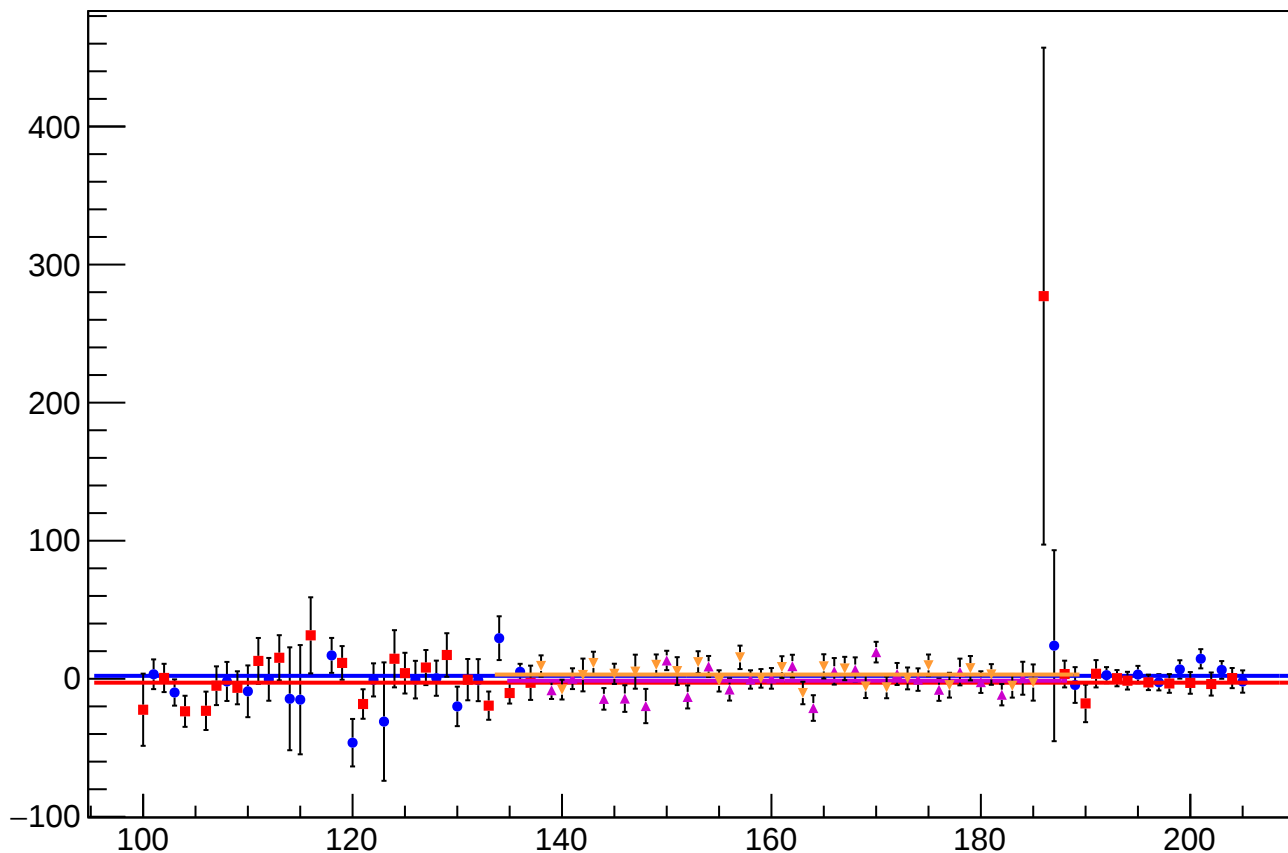
Right: 17176.657 $\pm$ 2.465 χ^2 /NDF: 5338271.4/55

In: 10592.873 $\pm$ 1.442 χ^2 /NDF:6571242.7/48

Out: 10606.552 $\pm$ 1.403 χ^2 /NDF:7922933.6/54

All: 10599.899 $\pm$ 1.006 χ^2 /NDF: 14494222.5

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.131 $\pm$ 1.897 χ^2/NDF : 23.5/25

Left Out: 3.062 $\pm$ 1.659 χ^2/NDF : 18.3/24

Right Out: -2.819 $\pm$ 1.832 χ^2/NDF : 25.5/29

Left In: -1.394 $\pm$ 1.693 χ^2/NDF : 35.4/22

Left: 0.879 $\pm$ 1.185 χ^2/NDF : 57.2/47

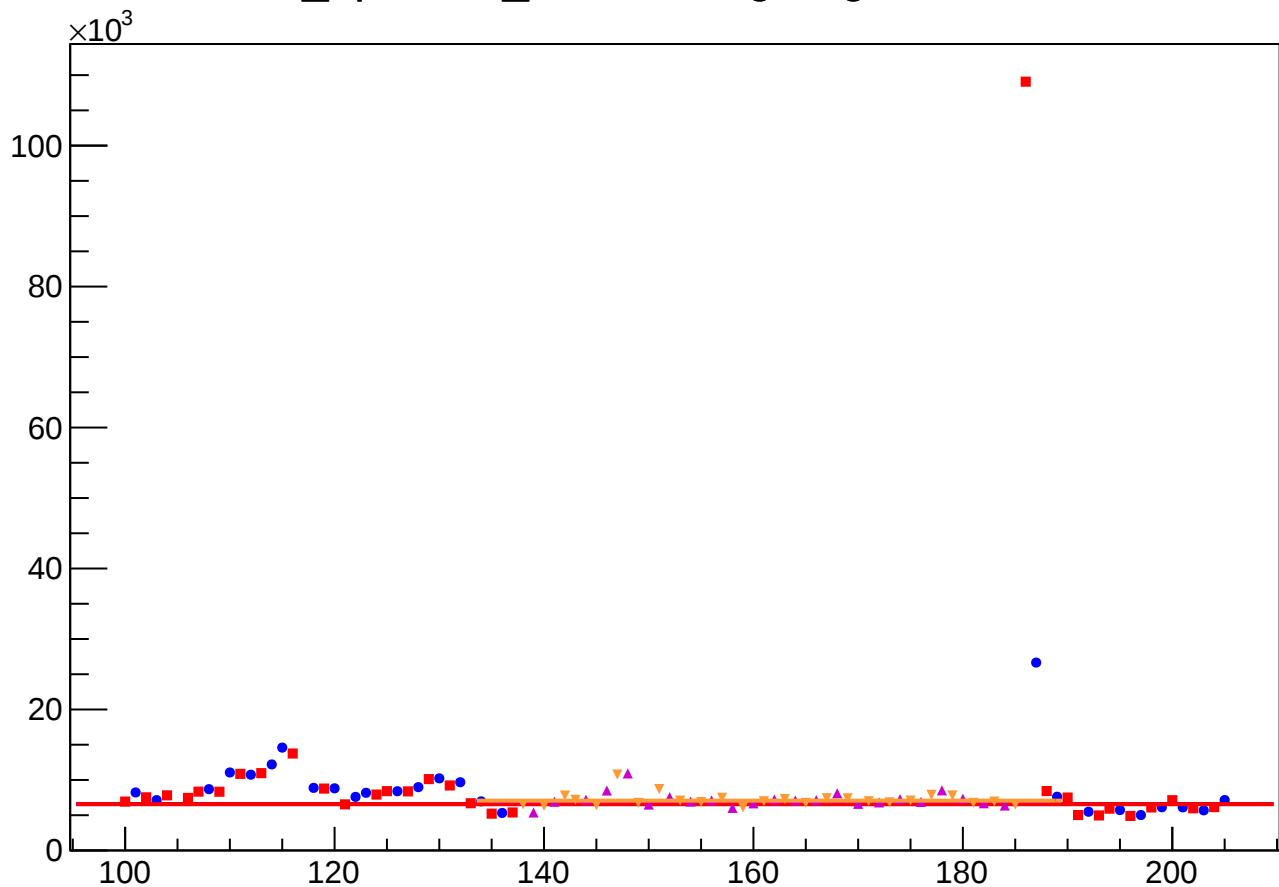
Right: -0.430 $\pm$ 1.318 χ^2/NDF : 52.5/55

In: 0.169 $\pm$ 1.263 χ^2/NDF : 60.8/48

Out: 0.413 $\pm$ 1.230 χ^2/NDF : 49.4/54

All: 0.294 $\pm$ 0.881 χ^2/NDF : 110.2/103

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6576.991 $\pm$ 1.342 χ^2/NDF : 1512545.7/25

Left Out: 7066.826 $\pm$ 1.173 χ^2/NDF : 387449.8/24

Right Out: 6570.706 $\pm$ 1.296 χ^2/NDF : 2099361.9/29

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

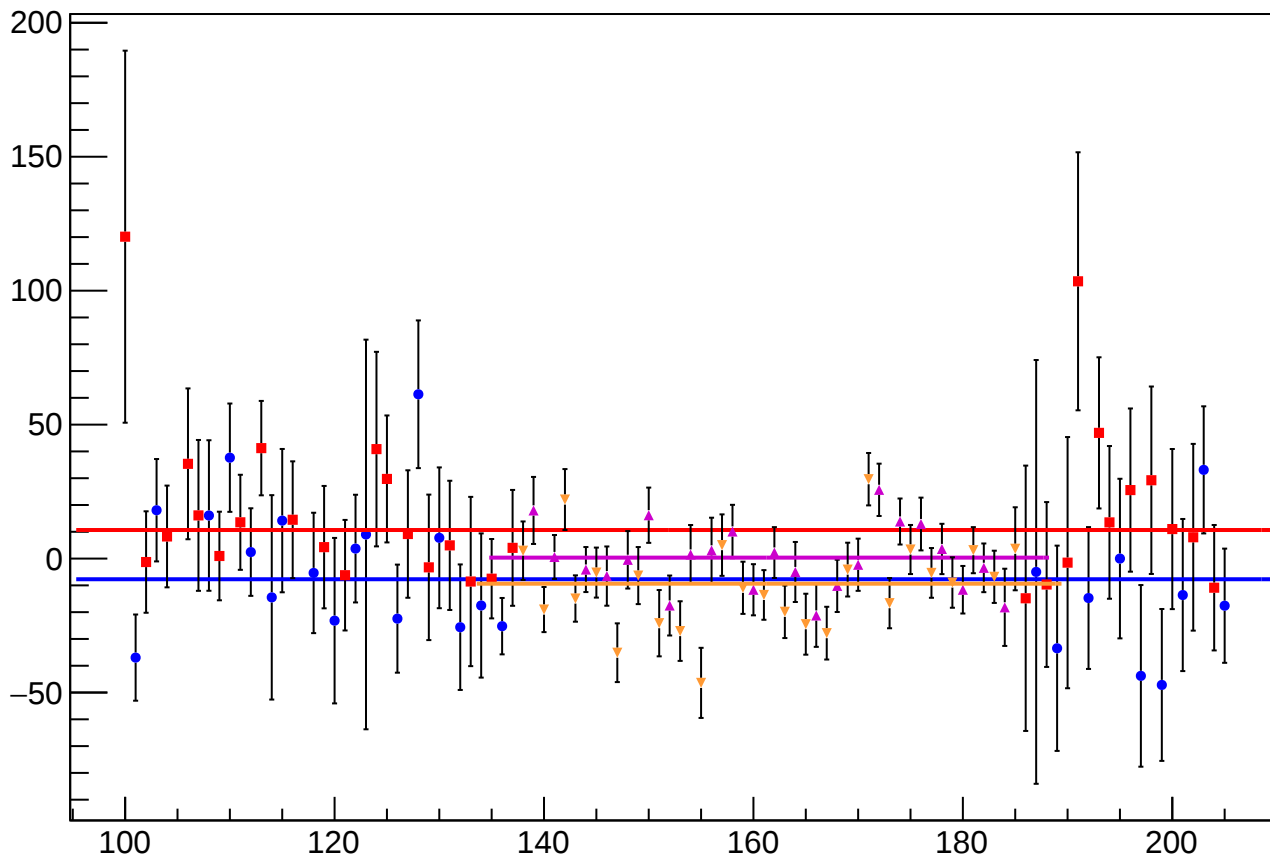
Right: 6573.739 $\pm$ 0.932 χ^2/NDF : 3611919.0/55

In: 6812.755 $\pm$ 0.893 χ^2/NDF : 2118057.8/48

Out: 6843.339 $\pm$ 0.870 χ^2/NDF : 2567398.0/54

All: 6828.459 $\pm$ 0.623 χ^2/NDF : 4686057.7/100

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.713 ± 4.471 $\chi^2/\text{NDF}: 30.1/25$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 10.664 ± 4.459 $\chi^2/\text{NDF}: 19.0/29$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

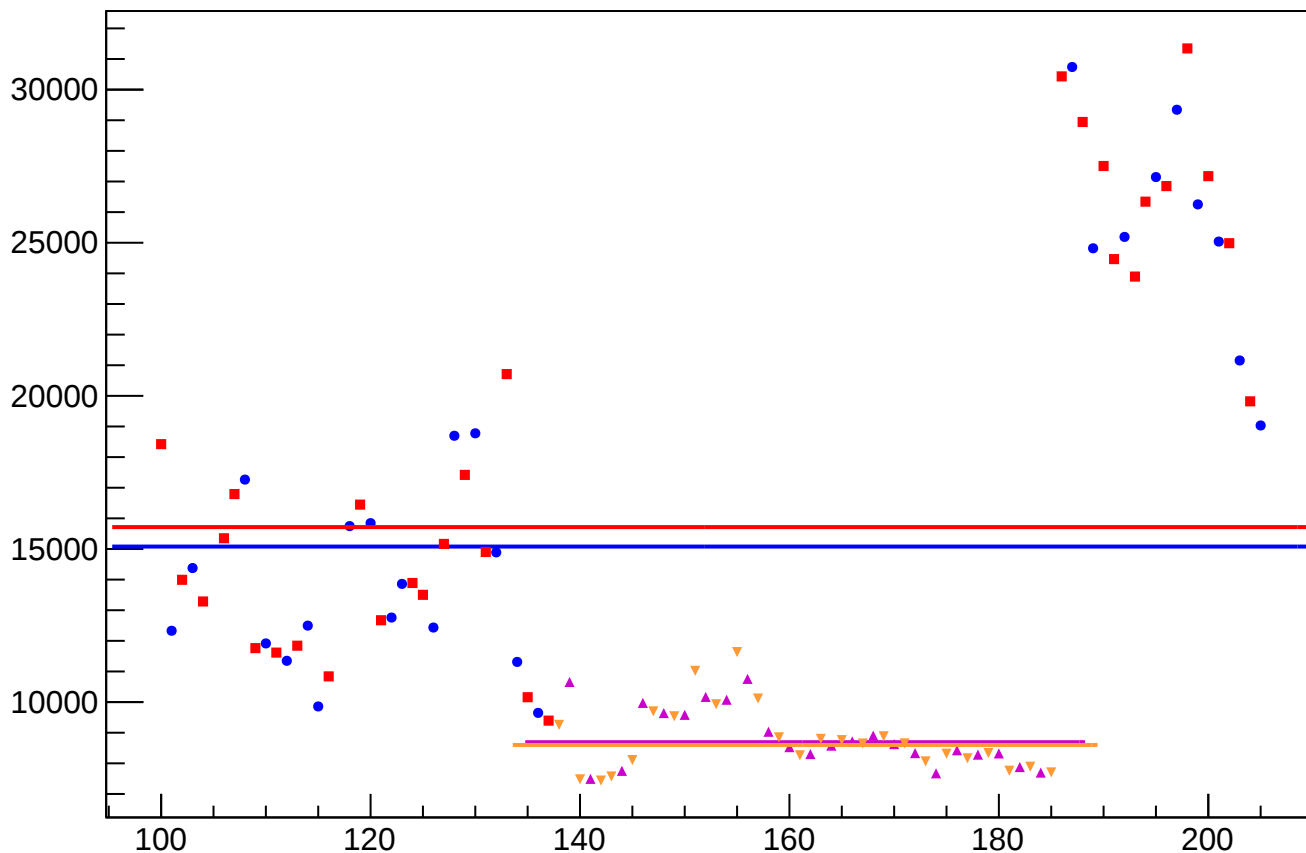
Right: 1.501 ± 3.157 $\chi^2/\text{NDF}: 57.6/55$

In: -1.095 ± 1.895 $\chi^2/\text{NDF}: 62.4/48$

Out: -5.970 ± 1.838 $\chi^2/\text{NDF}: 94.2/54$

All: -3.607 ± 1.319 $\chi^2/\text{NDF}: 160.0/103$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15078.867 $\pm$ 3.162 χ^2 /NDF: 2960713.9/25

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF: 438229.4/24

Right Out: 15714.590 $\pm$ 3.153 χ^2 /NDF: 3403254.3/29

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

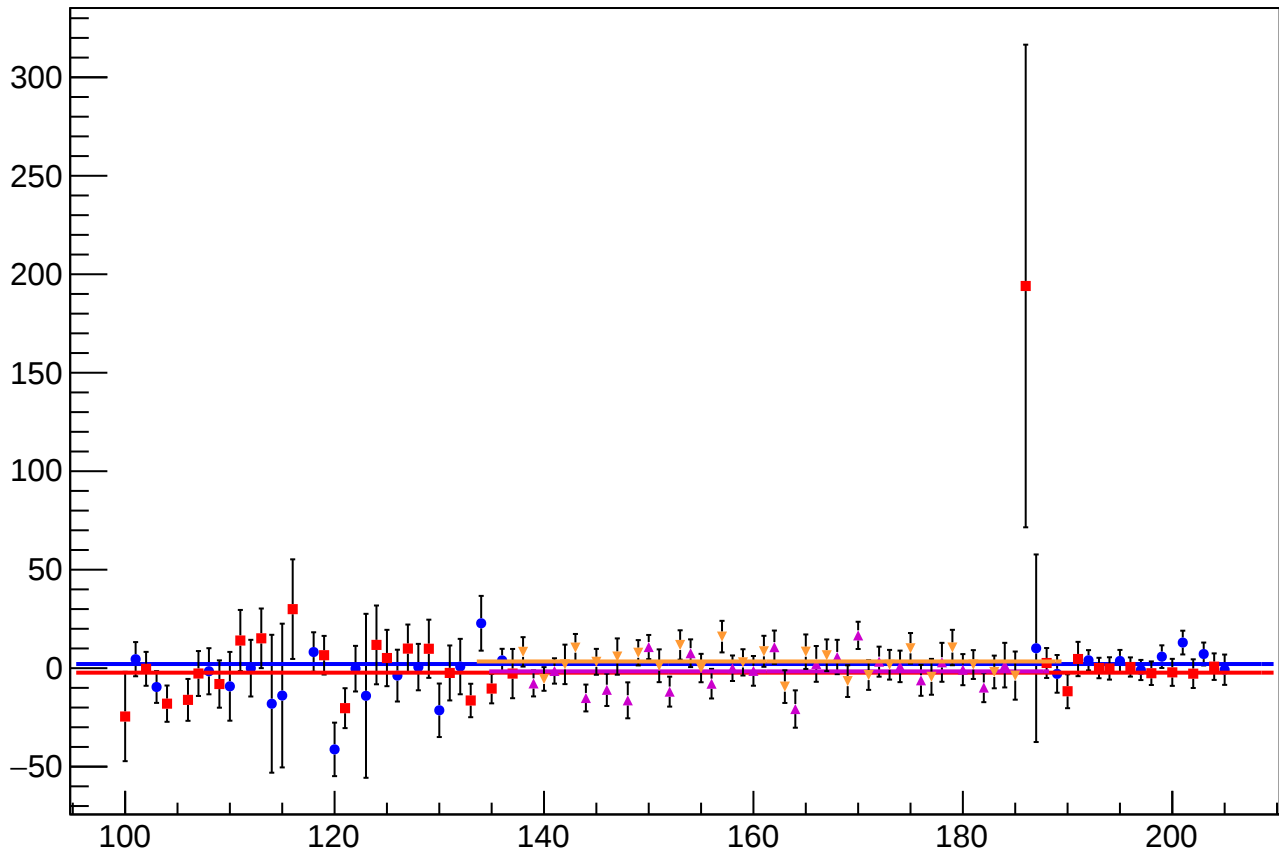
Right: 15397.610 $\pm$ 2.233 χ^2 /NDF: 6384237.6/55

In: 9837.684 $\pm$ 1.340 χ^2 /NDF: 6680957.9/48

Out: 9809.568 $\pm$ 1.300 χ^2 /NDF: 8067026.5/54

All: 9823.199 $\pm$ 0.933 χ^2 /NDF: 14748211.2/102

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.104 ± 1.690 $\chi^2/\text{NDF}: 25.0/25$

Left Out: 3.406 ± 1.550 $\chi^2/\text{NDF}: 16.8/24$

Right Out: -2.283 ± 1.607 $\chi^2/\text{NDF}: 26.0/29$

Left In: -1.627 ± 1.599 $\chi^2/\text{NDF}: 33.5/22$

Left: 0.967 ± 1.113 $\chi^2/\text{NDF}: 55.4/47$

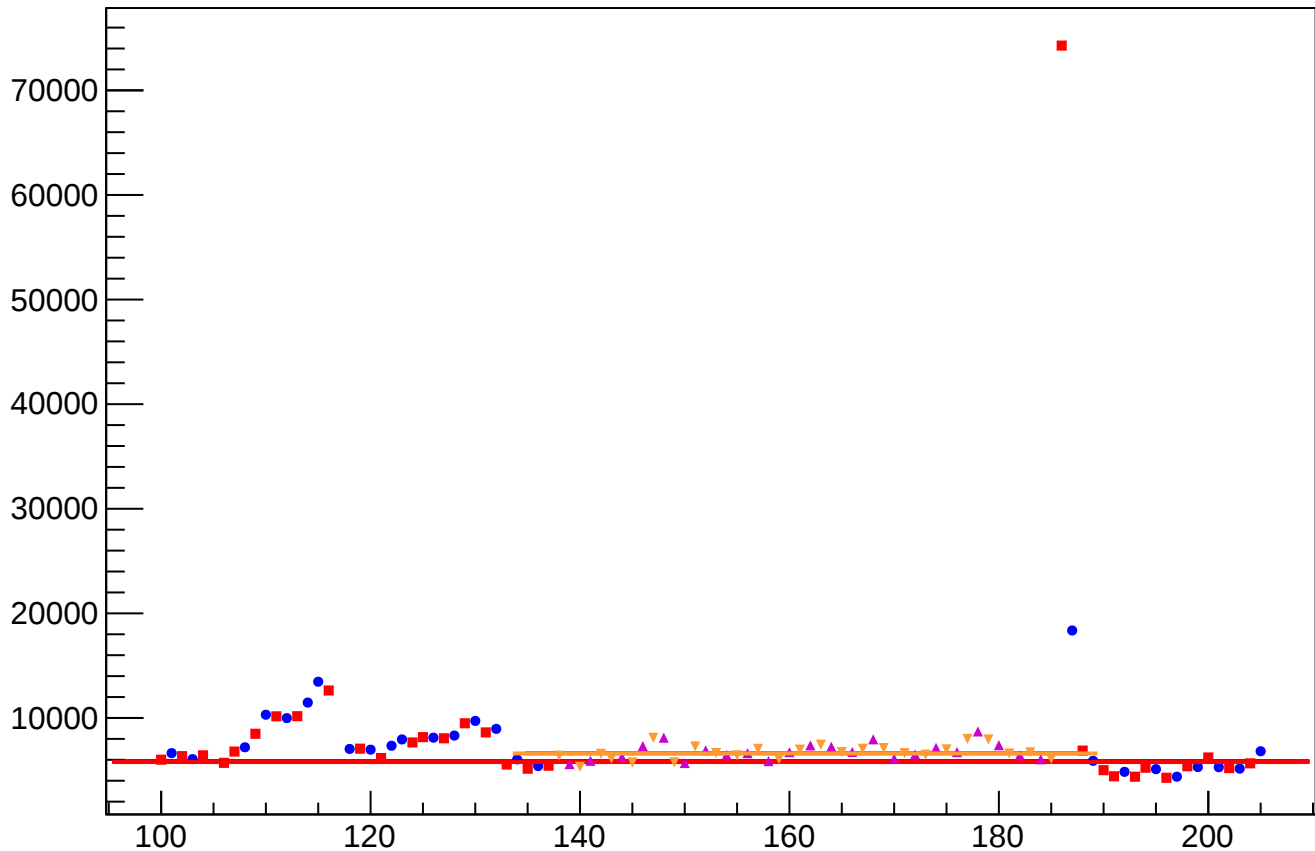
Right: -0.200 ± 1.165 $\chi^2/\text{NDF}: 54.5/55$

In: 0.135 ± 1.162 $\chi^2/\text{NDF}: 61.0/48$

Out: 0.664 ± 1.116 $\chi^2/\text{NDF}: 49.3/54$

All: 0.410 ± 0.805 $\chi^2/\text{NDF}: 110.4/103$

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5870.442+/-1.195 χ^2/NDF : 1486051.5/25

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5786.821+/-1.137 χ^2/NDF : 2129275.0/29

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

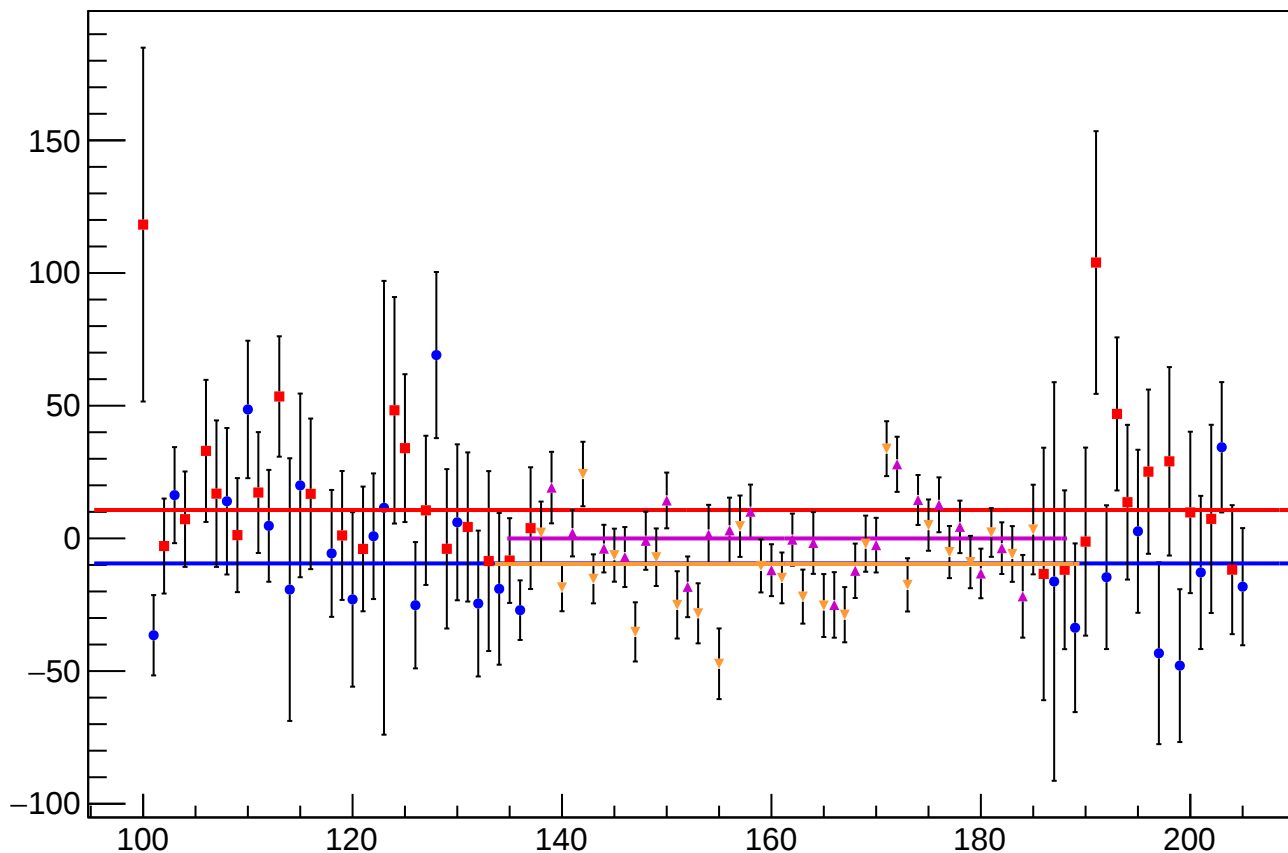
Right: 5826.536+/-0.824 χ^2/NDF : 3617897.2/55

In: 6270.499+/-0.821 χ^2/NDF : 2128724.6/48

Out: 6211.745+/-0.789 χ^2/NDF : 2797506.7/54

All: 6239.945+/-0.569 χ^2/NDF : 4928892.4/100

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.432 ± 4.806 $\chi^2/\text{NDF}: 29.4/25$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 10.693 ± 4.842 $\chi^2/\text{NDF}: 19.4/29$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

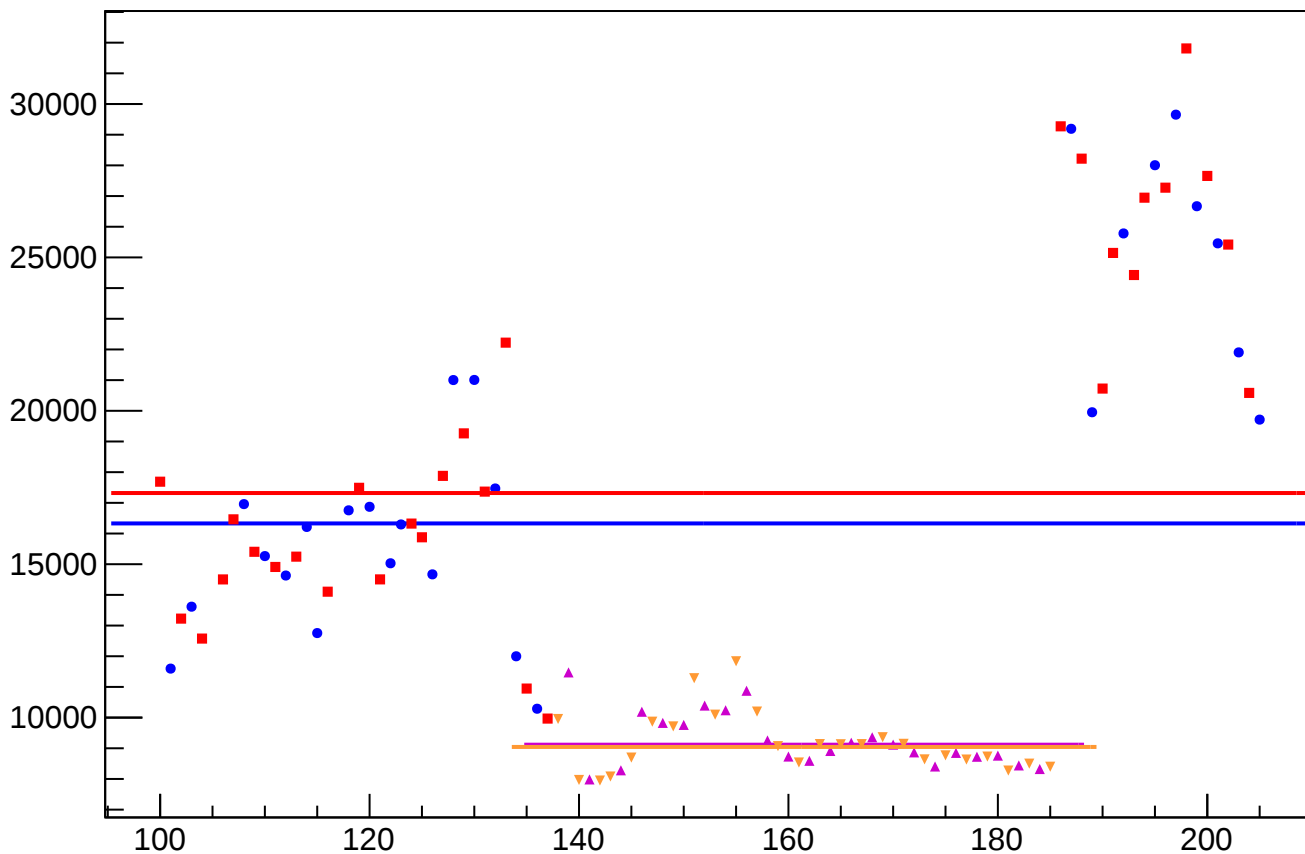
Right: 0.555 ± 3.411 $\chi^2/\text{NDF}: 57.5/55$

In: -1.640 ± 1.994 $\chi^2/\text{NDF}: 63.2/48$

Out: -6.381 ± 1.941 $\chi^2/\text{NDF}: 94.0/54$

All: -4.075 ± 1.391 $\chi^2/\text{NDF}: 160.1/103$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16329.054 $\pm$ 3.398 χ^2 /NDF: 2547147.0/25

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF:328192.2/24

Right Out: 17320.048 $\pm$ 3.424 χ^2 /NDF: 2670211.3/29

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

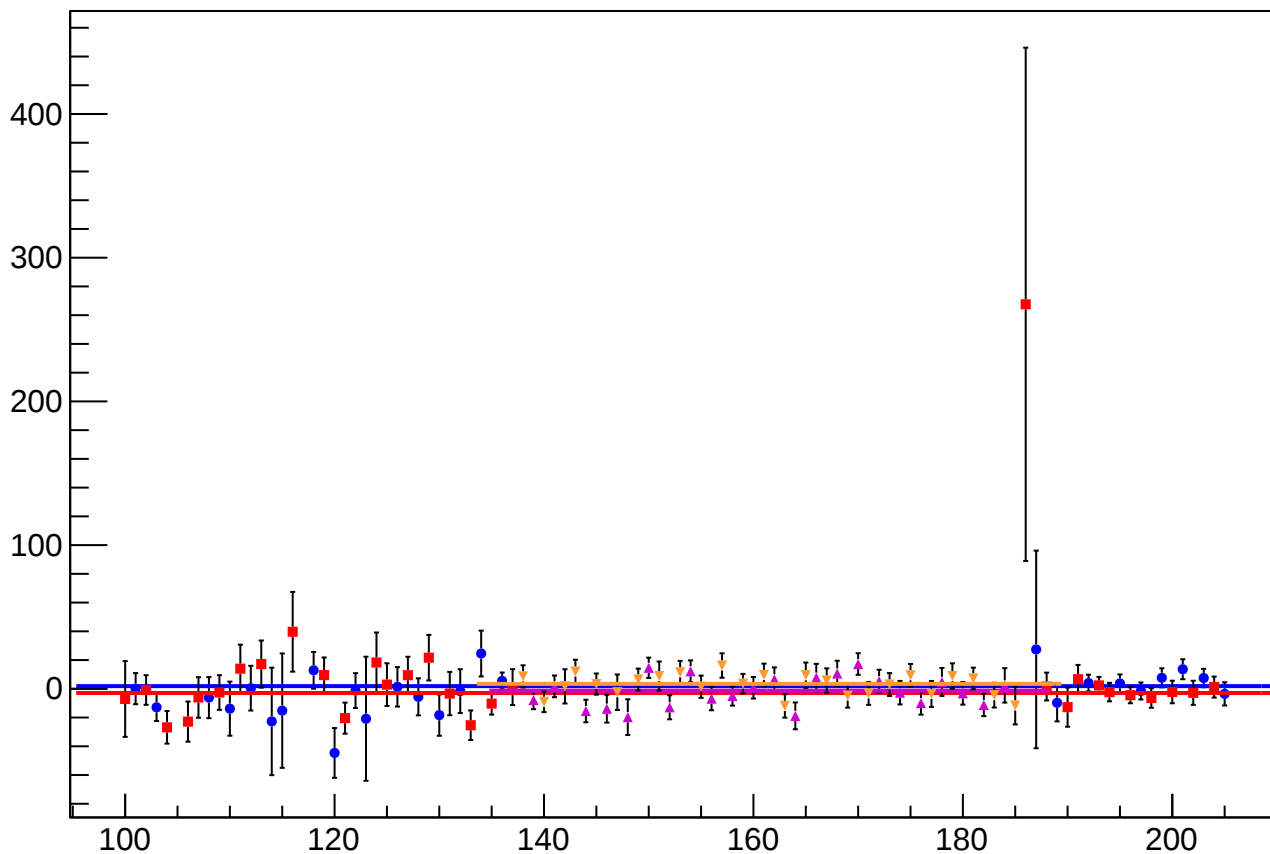
Right: 16820.854 $\pm$ 2.412 χ^2 /NDF: 5259563.6/55

In: 10358.968 $\pm$ 1.410 χ^2 /NDF:6553402.8/48

Out: 10373.129 $\pm$ 1.372 χ^2 /NDF:7903745.2/54

All: 10366.242 $\pm$ 0.983 χ^2 /NDF: 14457199.7

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.858 ± 1.904 $\chi^2/\text{NDF}: 23.4/25$

Left Out: 3.439 ± 1.666 $\chi^2/\text{NDF}: 18.9/24$

Right Out: -2.891 ± 1.840 $\chi^2/\text{NDF}: 30.9/29$

Left In: -1.291 ± 1.701 $\chi^2/\text{NDF}: 36.5/22$

Left: 1.123 ± 1.190 $\chi^2/\text{NDF}: 59.4/47$

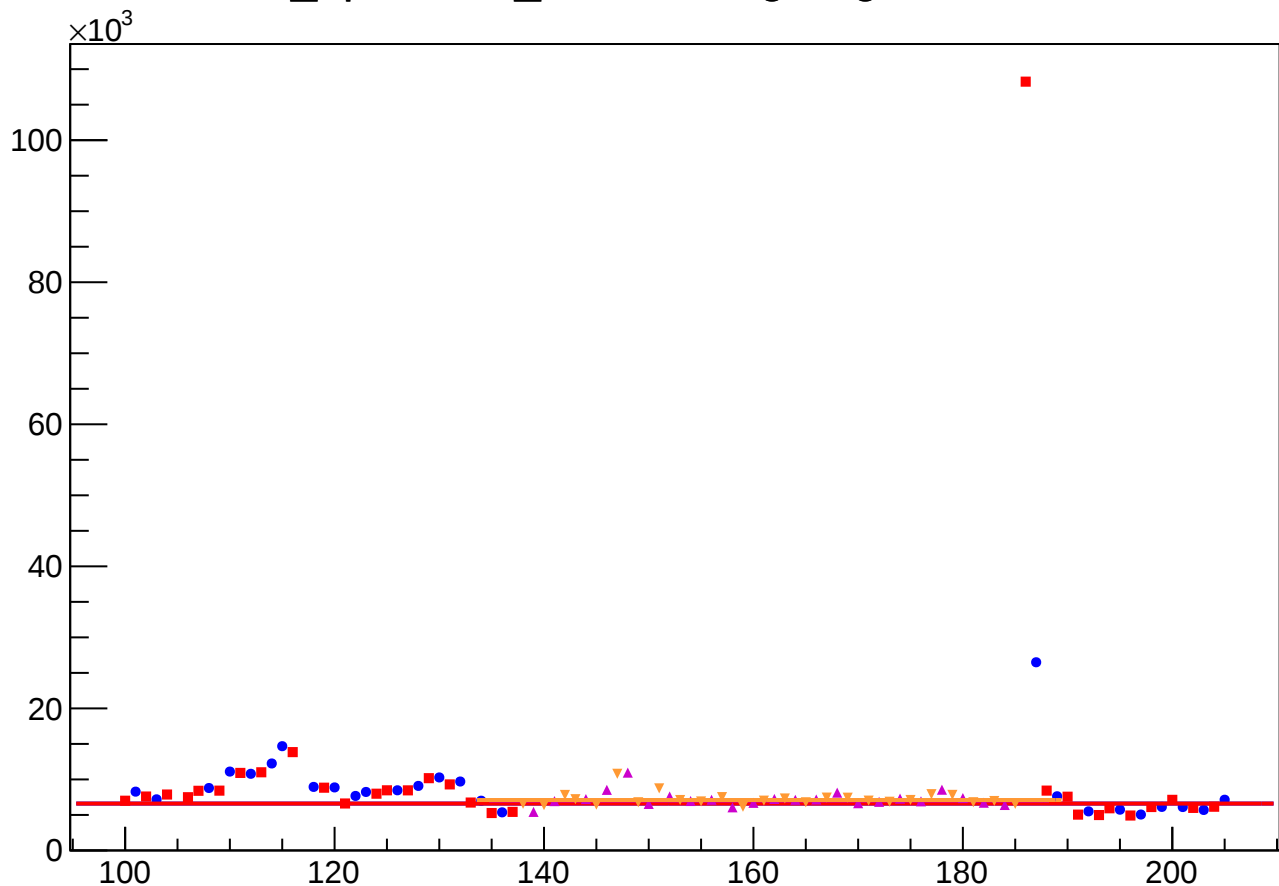
Right: -0.598 ± 1.323 $\chi^2/\text{NDF}: 57.5/55$

In: 0.106 ± 1.269 $\chi^2/\text{NDF}: 61.5/48$

Out: 0.588 ± 1.235 $\chi^2/\text{NDF}: 56.3/54$

All: 0.353 ± 0.885 $\chi^2/\text{NDF}: 117.8/103$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6601.589 $\pm$ 1.347 χ^2 /NDF: 1520961.7/25

Left Out: 7098.726 $\pm$ 1.178 χ^2 /NDF: 382550.4/24

Right Out: 6599.754 $\pm$ 1.301 χ^2 /NDF: 2104286.6/29

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

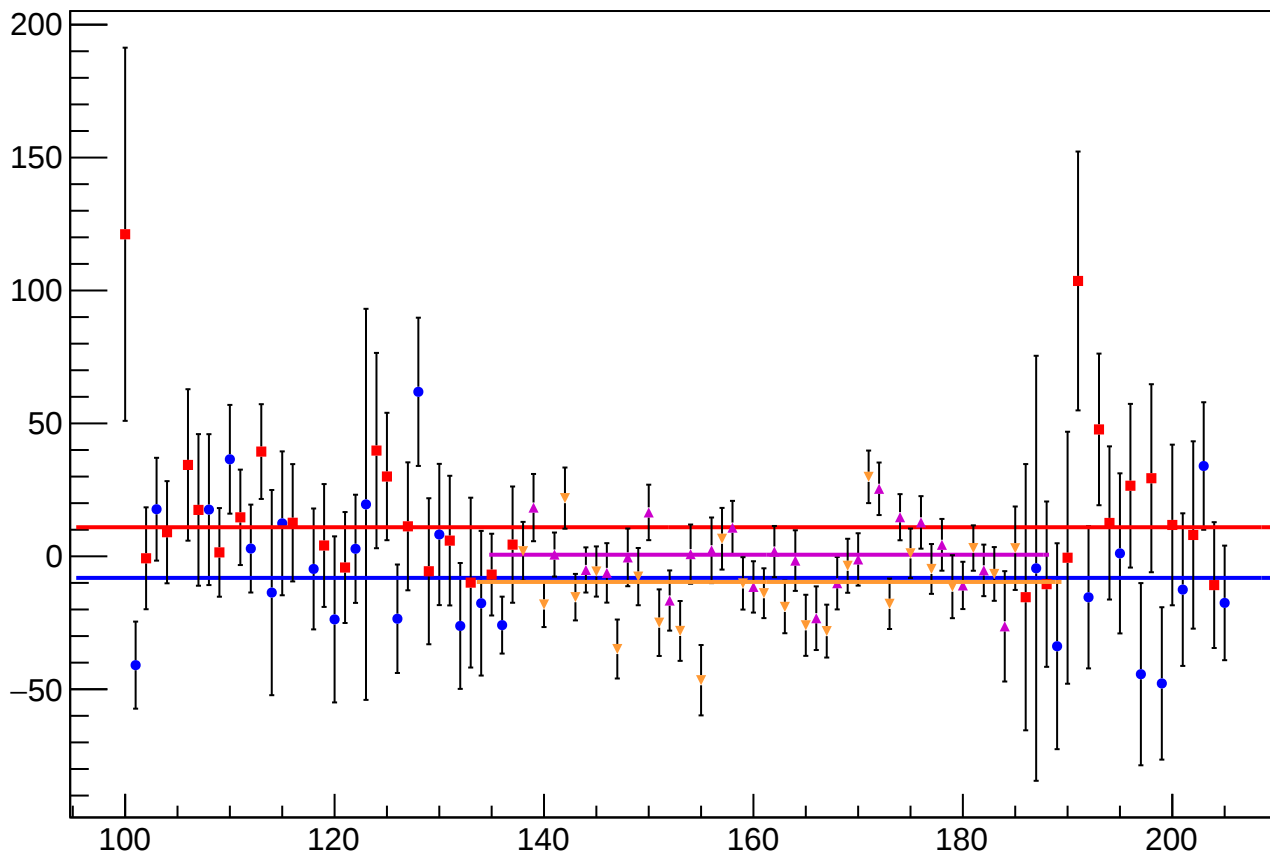
Right: 6600.640 $\pm$ 0.936 χ^2 /NDF: 3625249.3/55

In: 6841.959 $\pm$ 0.897 χ^2 /NDF: 2119276.4/48

Out: 6873.939 $\pm$ 0.873 χ^2 /NDF: 2567650.3/54

All: 6858.377 $\pm$ 0.626 χ^2 /NDF: 4687579.2/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -8.115 $\pm$ 4.529 χ^2/NDF : 30.8/25

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 10.942 $\pm$ 4.519 χ^2/NDF : 18.1/29

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

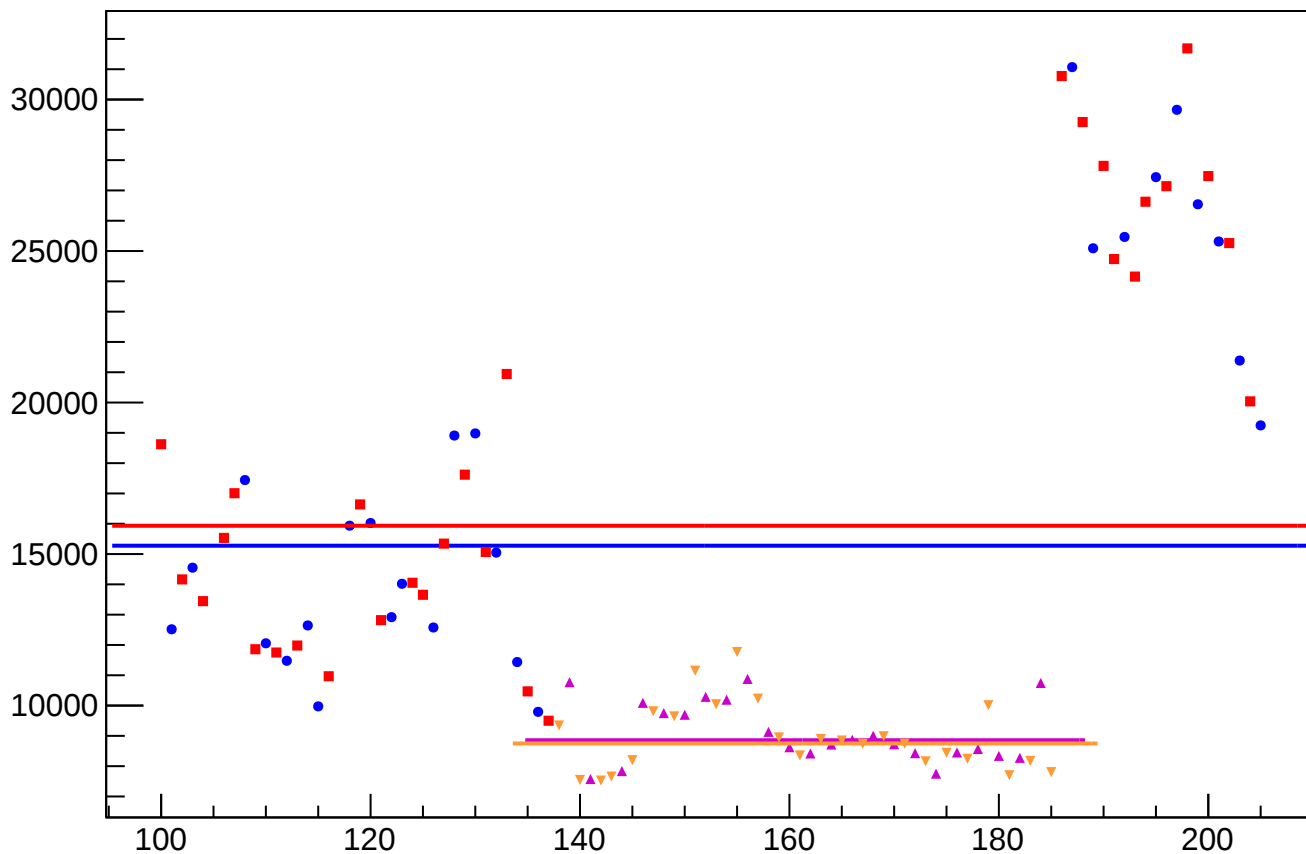
Right: 1.434 $\pm$ 3.199 χ^2/NDF : 57.7/55

In: -0.985 $\pm$ 1.931 χ^2/NDF : 63.5/48

Out: -6.107 $\pm$ 1.872 χ^2/NDF : 92.9/54

All: -3.625 $\pm$ 1.344 χ^2/NDF : 160.0/103

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15275.515 $\pm$ 3.203 χ^2 /NDF: 2941595.2/25

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF: 463394.1/24

Right Out: 15934.026 $\pm$ 3.196 χ^2 /NDF: 3369806.4/29

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

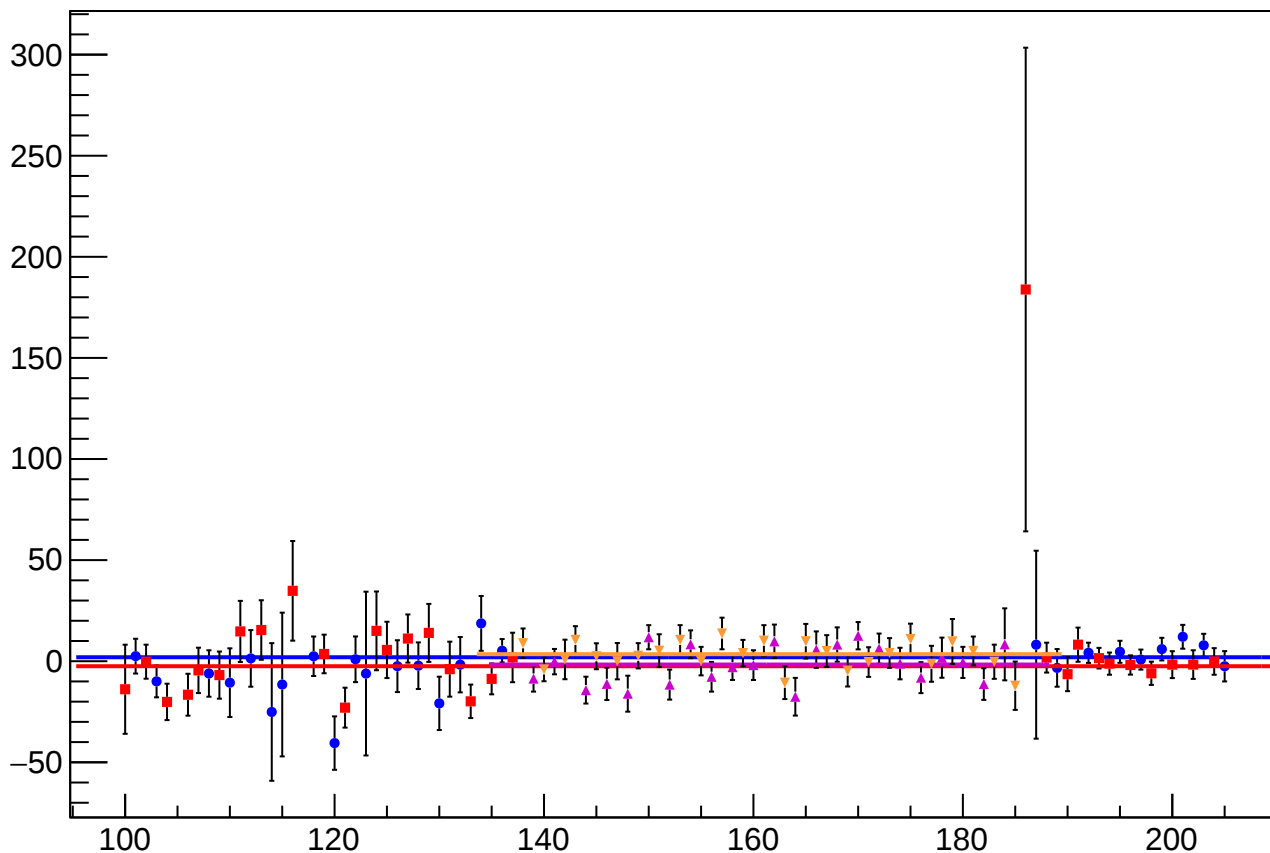
Right: 15605.475 $\pm$ 2.262 χ^2 /NDF: 6332586.1/55

In: 10022.812 $\pm$ 1.366 χ^2 /NDF: 6596929.7/48

Out: 9981.750 $\pm$ 1.324 χ^2 /NDF: 8021124.7/54

All: 10001.646 $\pm$ 0.951 χ^2 /NDF: 14618520.4/106

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.960 ± 1.649 χ^2/NDF : 25.4/25

Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24

Right Out: -2.475 ± 1.567 χ^2/NDF : 30.8/29

Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47

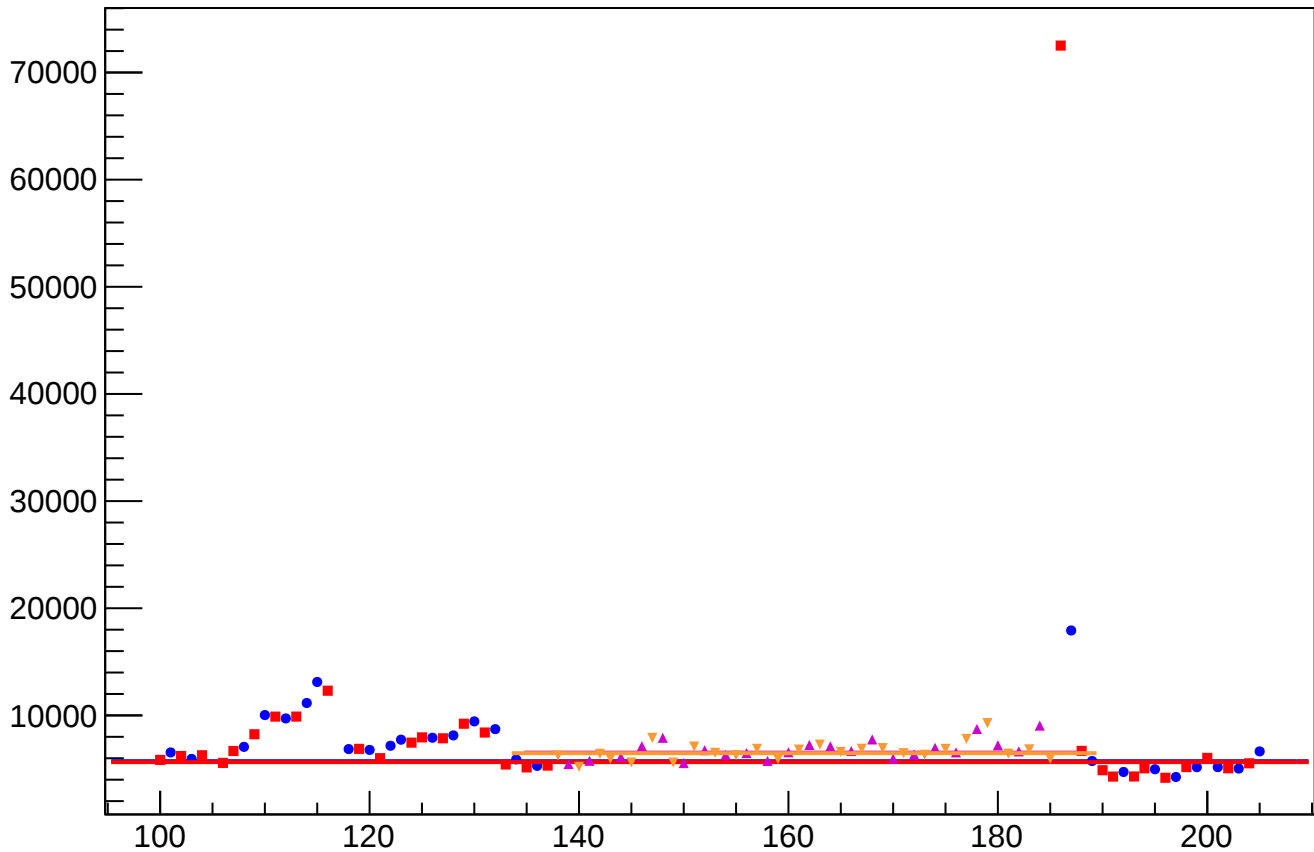
Right: -0.370 ± 1.136 χ^2/NDF : 59.9/55

In: 0.082 ± 1.140 χ^2/NDF : 61.6/48

Out: 0.582 ± 1.093 χ^2/NDF : 53.9/54

All: 0.342 ± 0.789 χ^2/NDF : 115.6/103

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5723.115+/-1.166 χ^2/NDF : 1492945.5/25

Left Out: 6471.976+/-1.078 χ^2/NDF : 490282.9/24

Right Out: 5639.855+/-1.108 χ^2/NDF : 2120071.4/29

Left In: 6521.975+/-1.116 χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775 χ^2/NDF : 971356.4/47

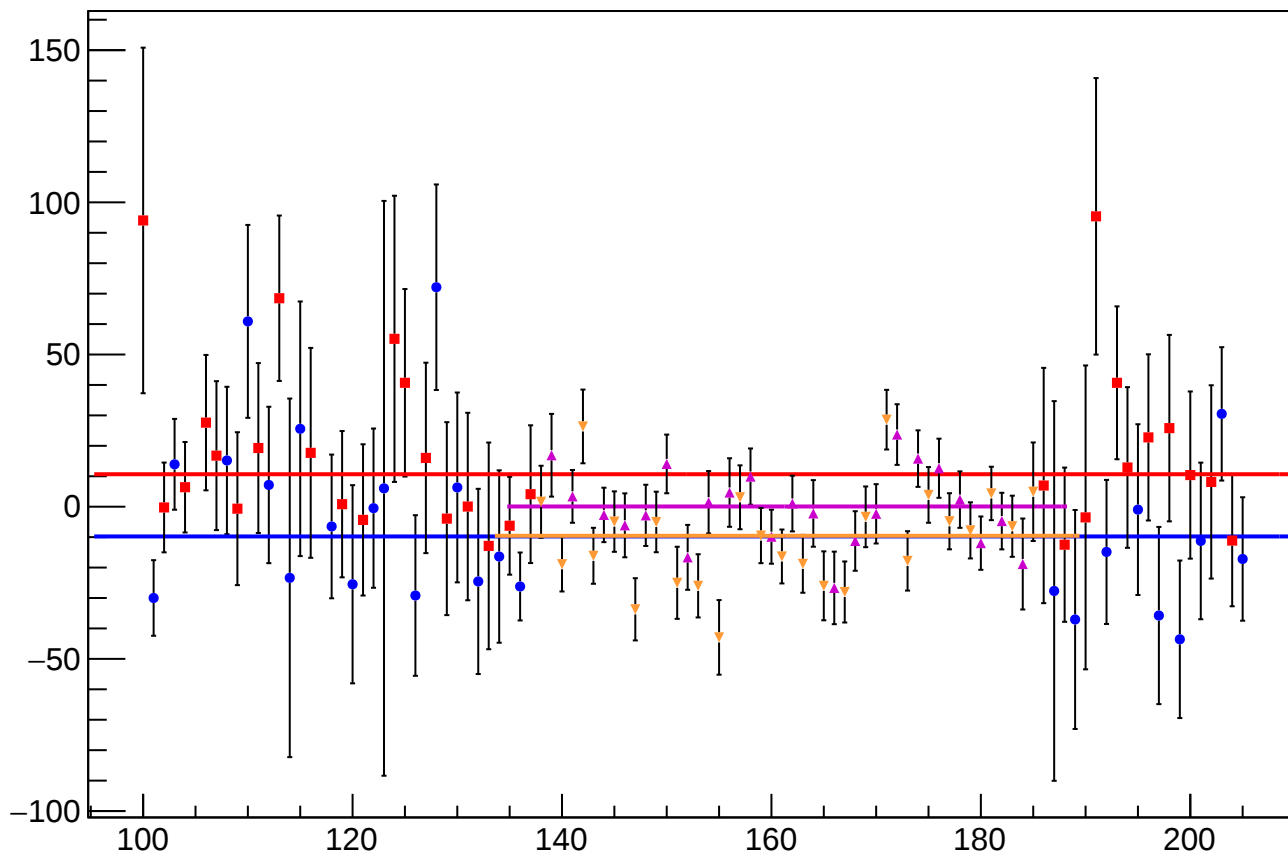
Right: 5679.380+/-0.803 χ^2/NDF : 3615696.4/55

In: 6140.050+/-0.806 χ^2/NDF : 2218073.7/48

Out: 6067.477+/-0.773 χ^2/NDF : 2900084.4/54

All: 6102.230+/-0.558 χ^2/NDF : 5122382.7/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.776 ± 4.620 χ^2/NDF : 28.8/25

Left Out: -9.554 ± 2.012 χ^2/NDF : 59.5/24

Right Out: 10.668 ± 4.672 χ^2/NDF : 20.0/29

Left In: 0.072 ± 2.073 χ^2/NDF : 29.8/22

Left: -4.885 ± 1.444 χ^2/NDF : 100.5/47

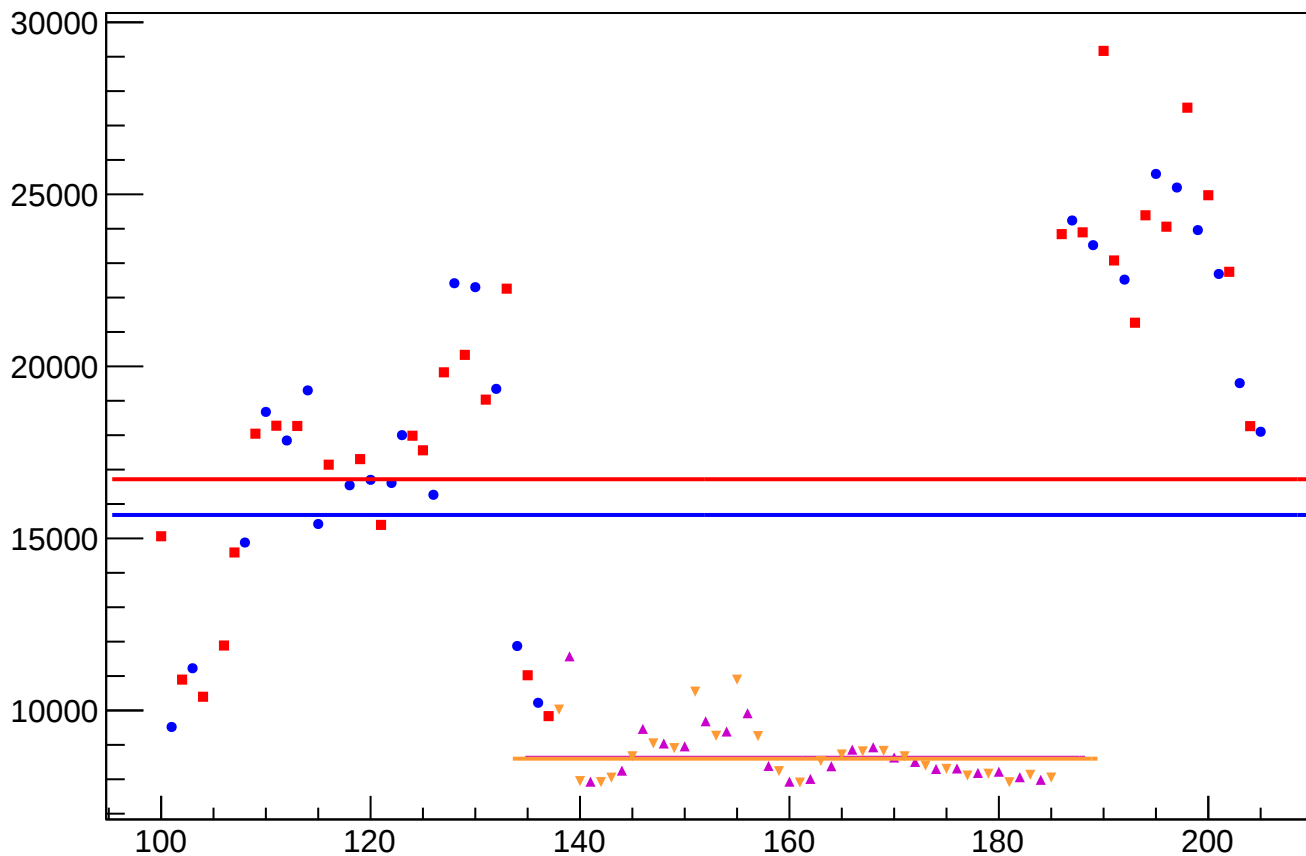
Right: 0.332 ± 3.285 χ^2/NDF : 58.5/55

In: -1.578 ± 1.891 χ^2/NDF : 62.4/48

Out: -6.391 ± 1.848 χ^2/NDF : 95.4/54

All: -4.041 ± 1.322 χ^2/NDF : 161.1/103

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15681.746 $\pm$ 3.267 χ^2/NDF : 2640857.6/25

Left Out: 8598.983 $\pm$ 1.423 χ^2/NDF : 249070.5/24

Right Out: 16720.042 $\pm$ 3.304 χ^2/NDF : 2642130.5/29

Left In: 8625.233 $\pm$ 1.466 χ^2/NDF : 237310.9/22

Left: 8611.717 $\pm$ 1.021 χ^2/NDF : 486546.6/47

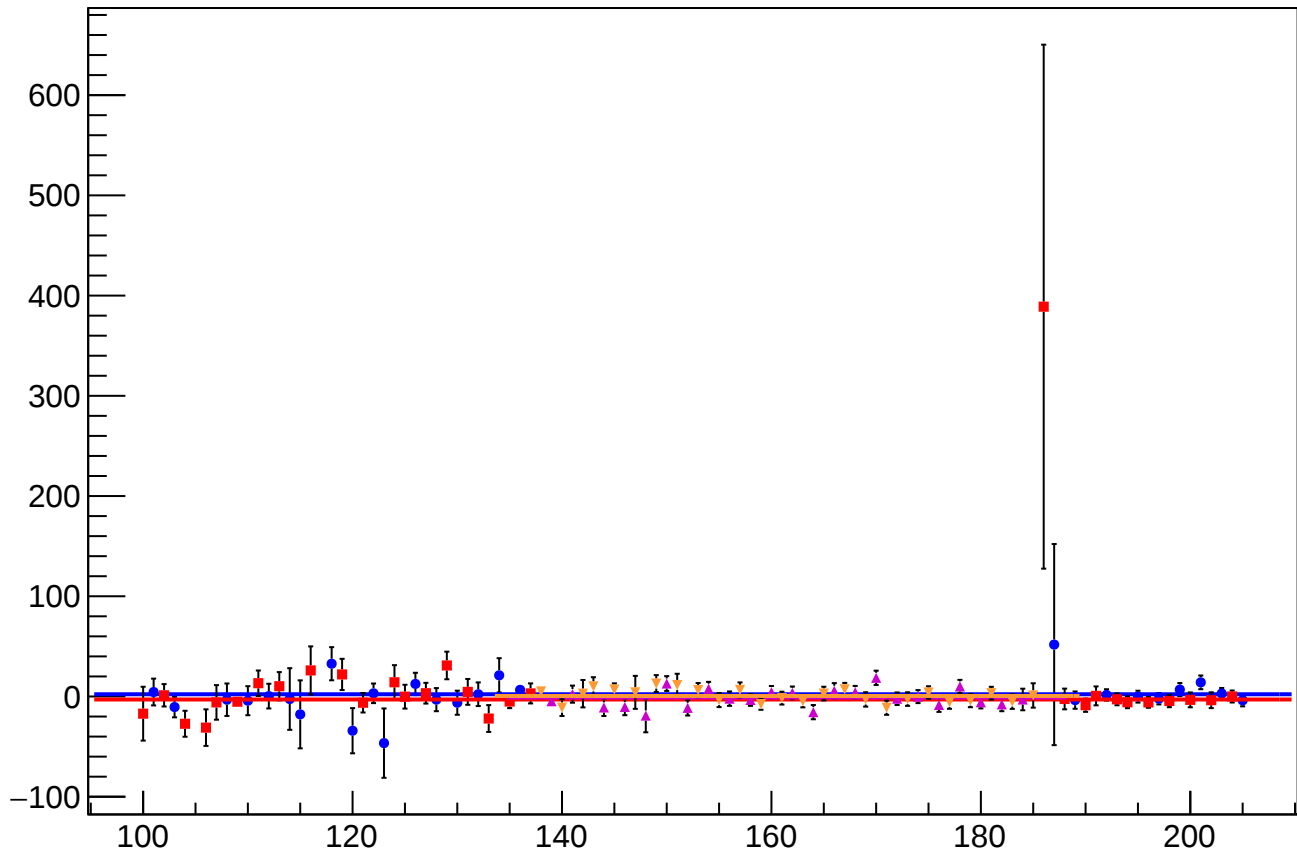
Right: 16195.118 $\pm$ 2.323 χ^2/NDF : 5332923.8/55

In: 9807.392 $\pm$ 1.337 χ^2/NDF : 6761546.4/48

Out: 9869.159 $\pm$ 1.307 χ^2/NDF : 7988661.5/54

All: 9838.992 $\pm$ 0.935 χ^2/NDF : 14751299.4/102

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.224 $\pm$ 1.715 χ^2/NDF : 20.0/25

Left Out: 0.528 $\pm$ 1.418 χ^2/NDF : 19.5/24

Right Out: -3.004 $\pm$ 1.599 χ^2/NDF : 27.6/29

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

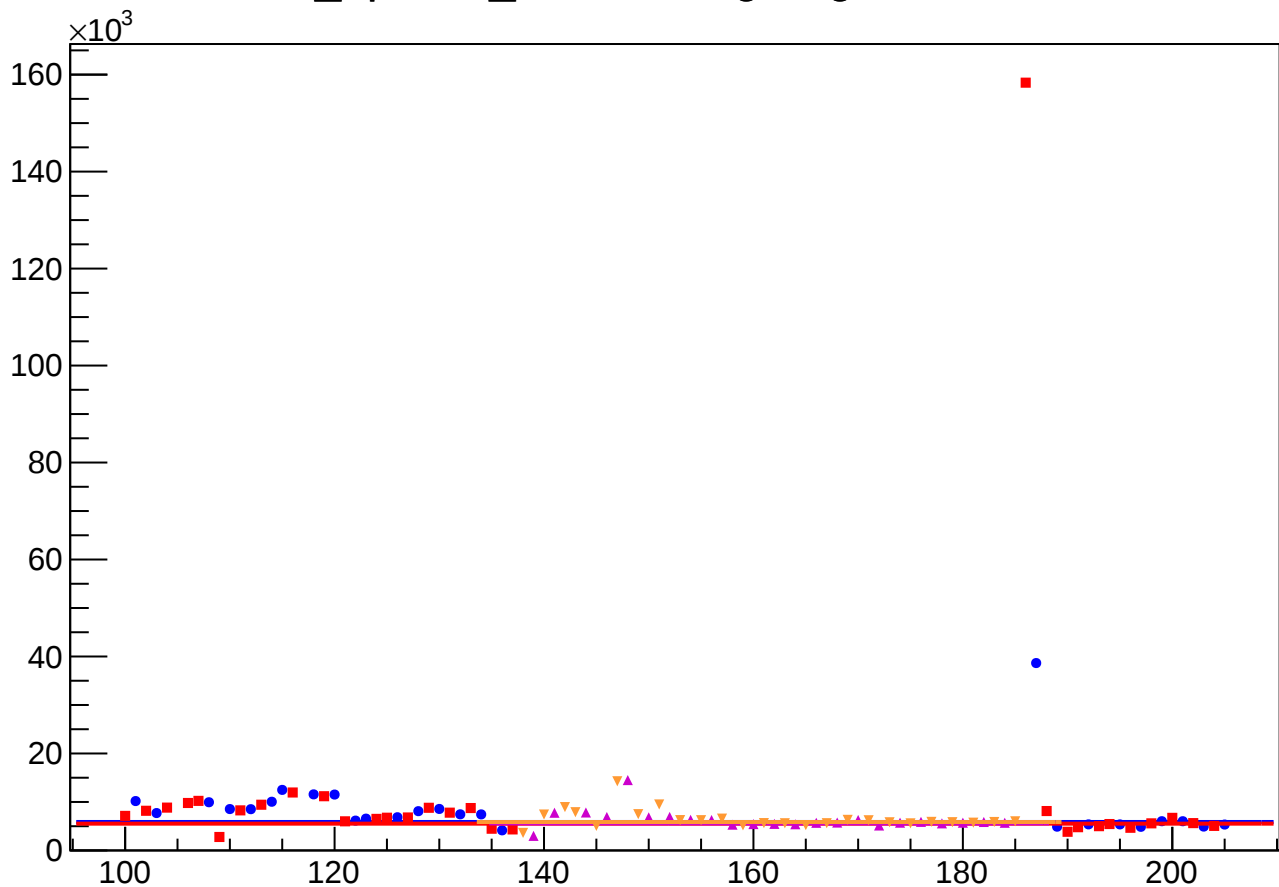
Right: -0.572 $\pm$ 1.170 χ^2/NDF : 52.6/55

In: 0.255 $\pm$ 1.082 χ^2/NDF : 54.8/48

Out: -1.026 $\pm$ 1.061 χ^2/NDF : 49.8/54

All: -0.399 $\pm$ 0.758 χ^2/NDF : 105.2/103

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5873.024 $\pm$ 1.213 χ^2/NDF : 1975886.0/25

Left Out: 5860.605 $\pm$ 1.002 χ^2/NDF : 1690049.2/24

Right Out: 5525.818 $\pm$ 1.131 χ^2/NDF : 3398288.4/29

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

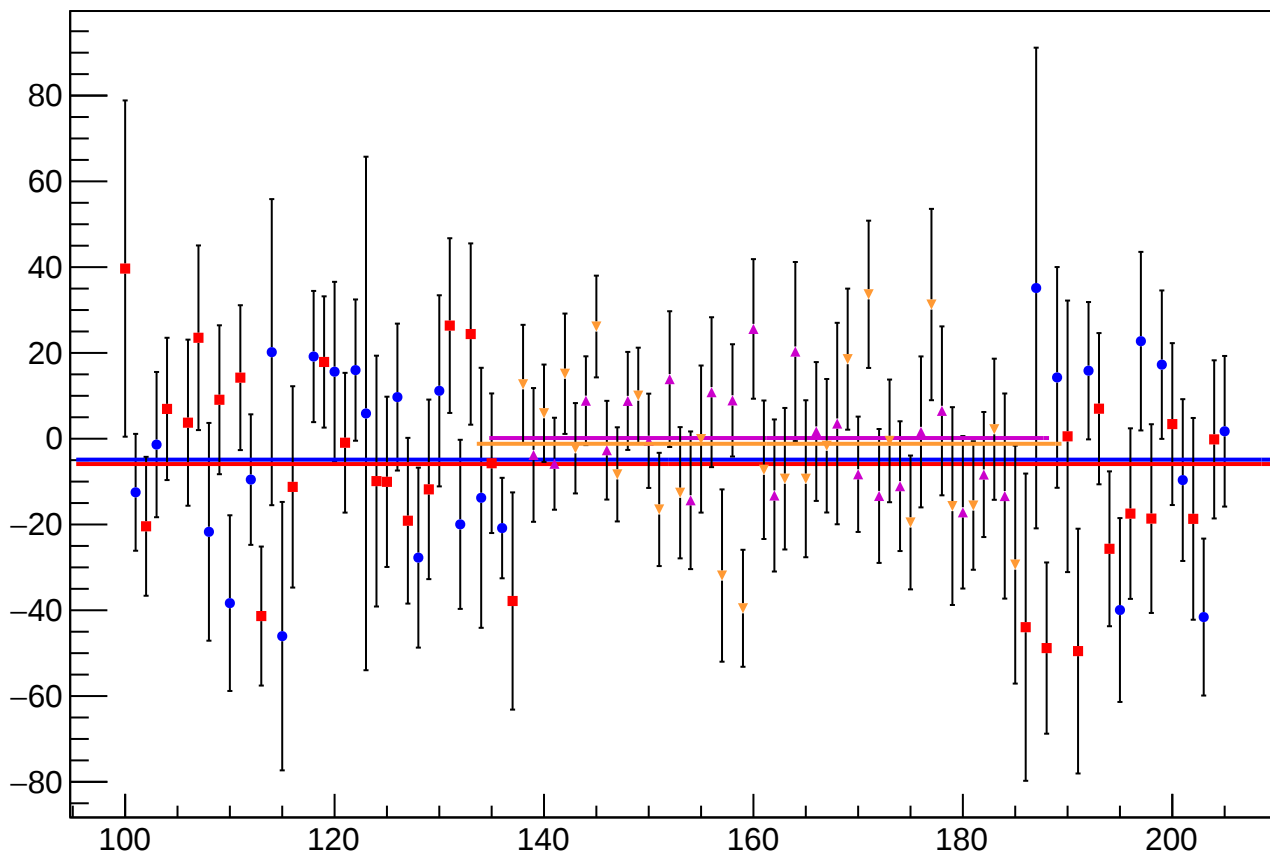
Right: 5687.339 $\pm$ 0.827 χ^2/NDF : 5418020.0/55

In: 5691.526 $\pm$ 0.765 χ^2/NDF : 4175913.5/48

Out: 5713.311 $\pm$ 0.750 χ^2/NDF : 5137413.1/54

All: 5702.638 $\pm$ 0.536 χ^2/NDF : 9313739.8/10

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.880 ± 3.761 χ^2/NDF : 28.9/25

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -5.910 ± 3.627 χ^2/NDF : 32.3/29

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

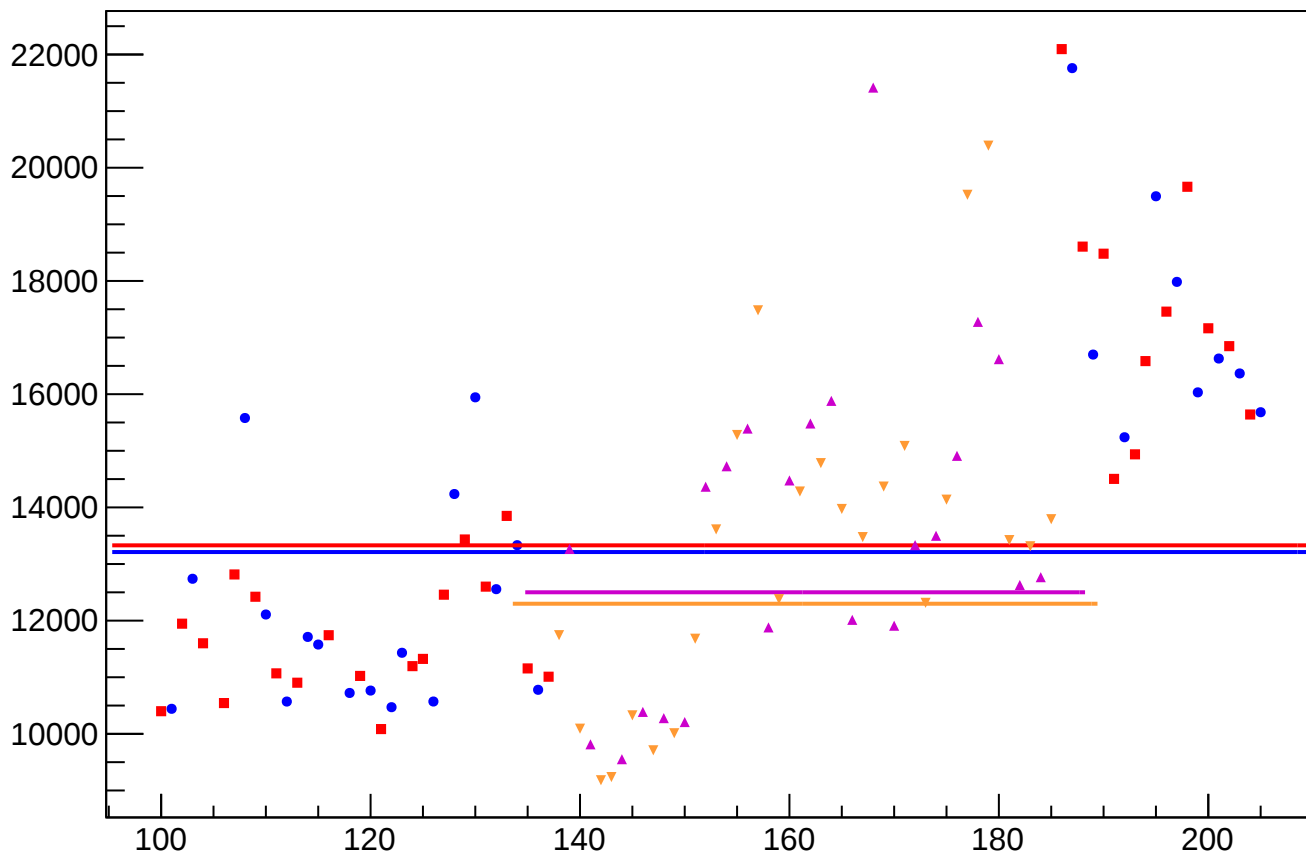
Right: -5.413 ± 2.611 χ^2/NDF : 61.2/55

In: -1.848 ± 2.373 χ^2/NDF : 41.4/48

Out: -3.056 ± 2.283 χ^2/NDF : 67.0/54

All: -2.475 ± 1.645 χ^2/NDF : 108.6/103

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13211.642 $\pm$ 2.659

χ^2/NDF : 1095248.8/25

Left: 12395.720 $\pm$ 1.498 χ^2/NDF : 2868458.0/47

Right: 13272.960 $\pm$ 1.846 χ^2/NDF : 2306167.9/55

Left Out: 12298.676 $\pm$ 2.078

χ^2/NDF : 1506026.8/24

In: 12783.724 $\pm$ 1.678 χ^2/NDF : 2496150.9/48

Right Out: 13329.986 $\pm$ 2.565

χ^2/NDF : 1209893.0/29

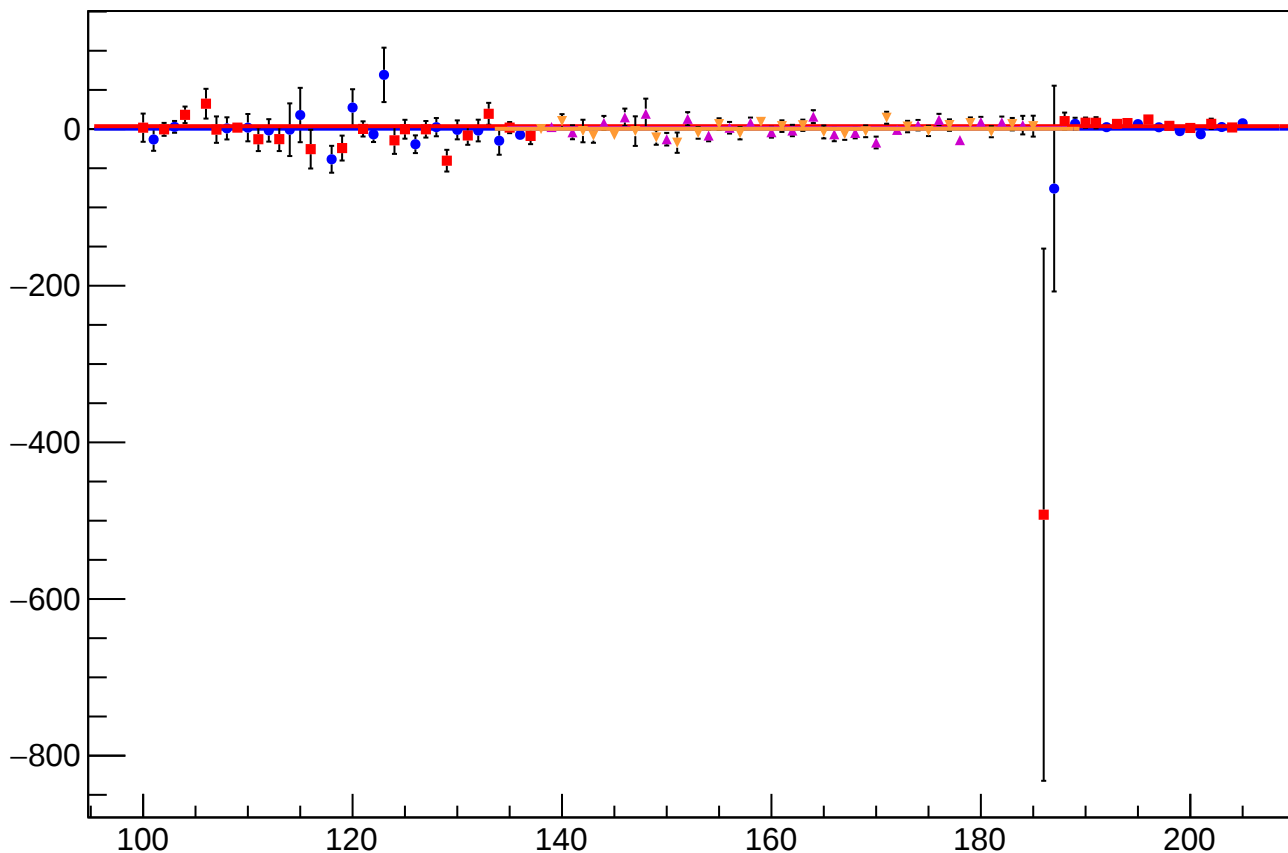
Out: 12707.437 $\pm$ 1.615 χ^2/NDF : 2813538.8/54

Left In: 12500.795 $\pm$ 2.162

χ^2/NDF : 1357889.1/22

All: 12744.118 $\pm$ 1.163 χ^2/NDF : 5310763.2/100

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.518 ± 1.470 $\chi^2/\text{NDF}: 26.7/25$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: 3.678 ± 1.410 $\chi^2/\text{NDF}: 34.6/29$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

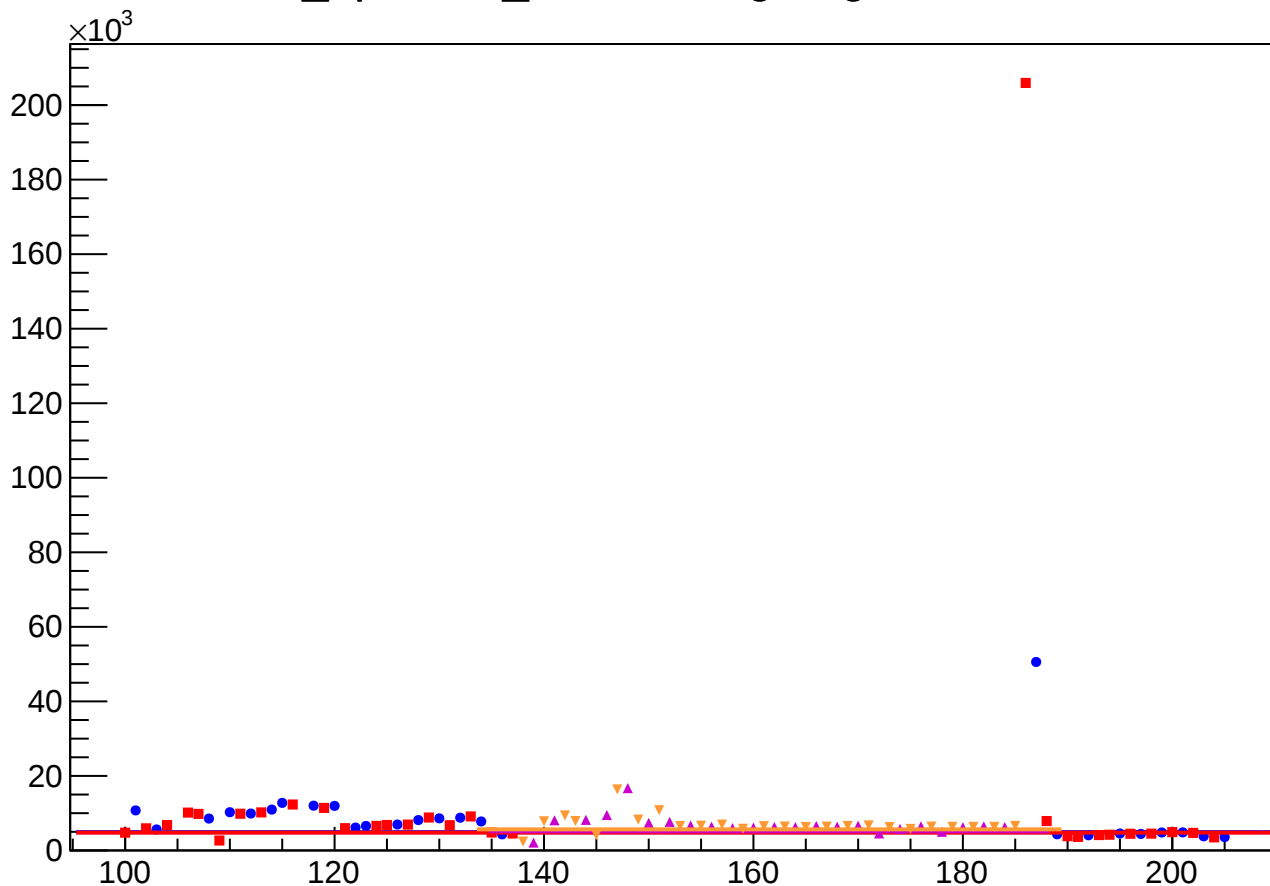
Right: 2.164 ± 1.018 $\chi^2/\text{NDF}: 63.7/55$

In: 0.864 ± 1.003 $\chi^2/\text{NDF}: 60.4/48$

Out: 2.043 ± 1.005 $\chi^2/\text{NDF}: 56.4/54$

All: 1.452 ± 0.710 $\chi^2/\text{NDF}: 117.5/103$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4909.858 $\pm$ 1.040 χ^2/NDF : 2990512.6/25

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 4782.680 $\pm$ 0.997 χ^2/NDF : 3707938.2/29

Left In: 5137.772 $\pm$ 0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078 $\pm$ 0.701 χ^2/NDF : 9762498.7/47

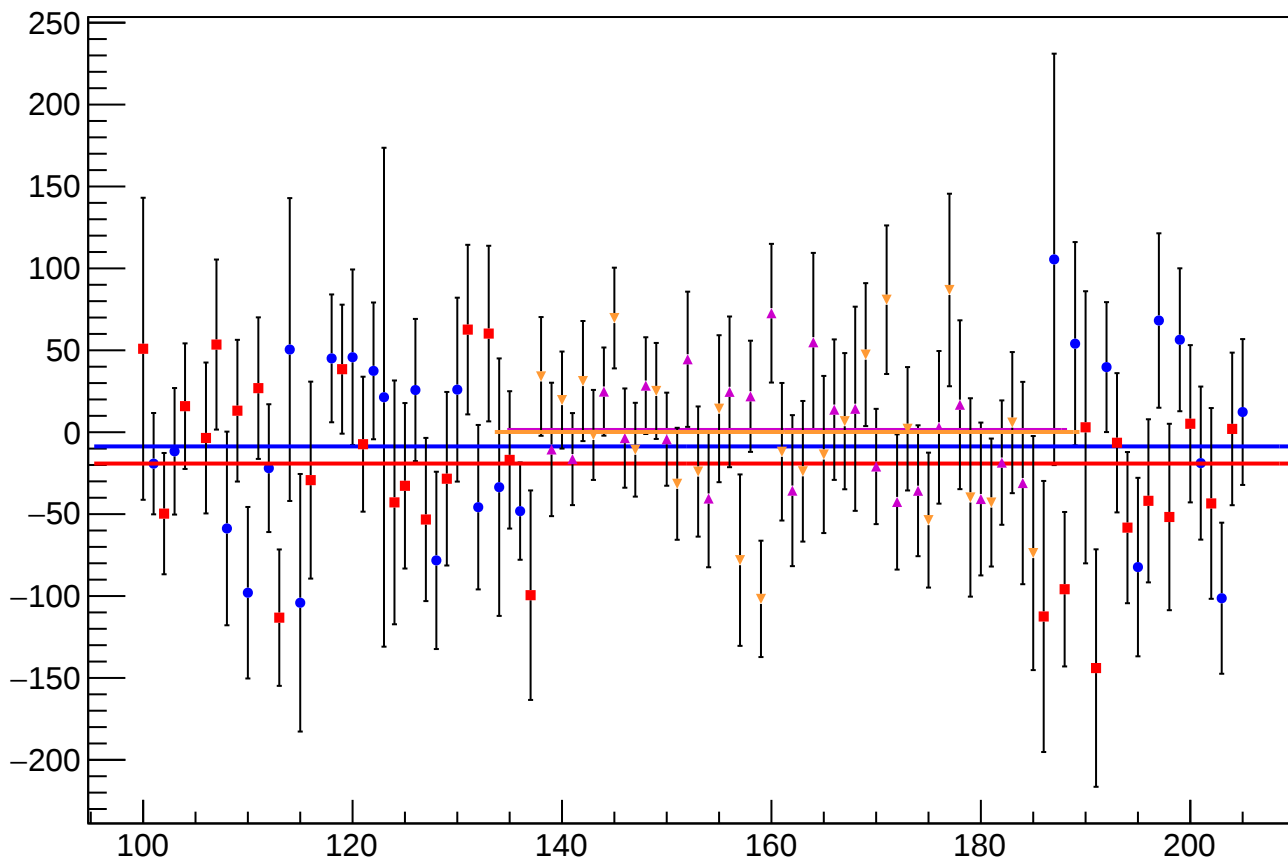
Right: 4843.612 $\pm$ 0.720 χ^2/NDF : 6706243.4/55

In: 5031.753 $\pm$ 0.709 χ^2/NDF : 8511818.2/48

Out: 5213.933 $\pm$ 0.711 χ^2/NDF : 8216739.6/54

All: 5122.628 $\pm$ 0.502 χ^2/NDF : 16761476.1/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.665 $\pm$ 9.360 χ^2/NDF : 28.8/25

Left Out: 0.143 $\pm$ 7.683 χ^2/NDF :31.3/24

Right Out: -19.130 $\pm$ 9.034 χ^2/NDF : 29.1/29

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

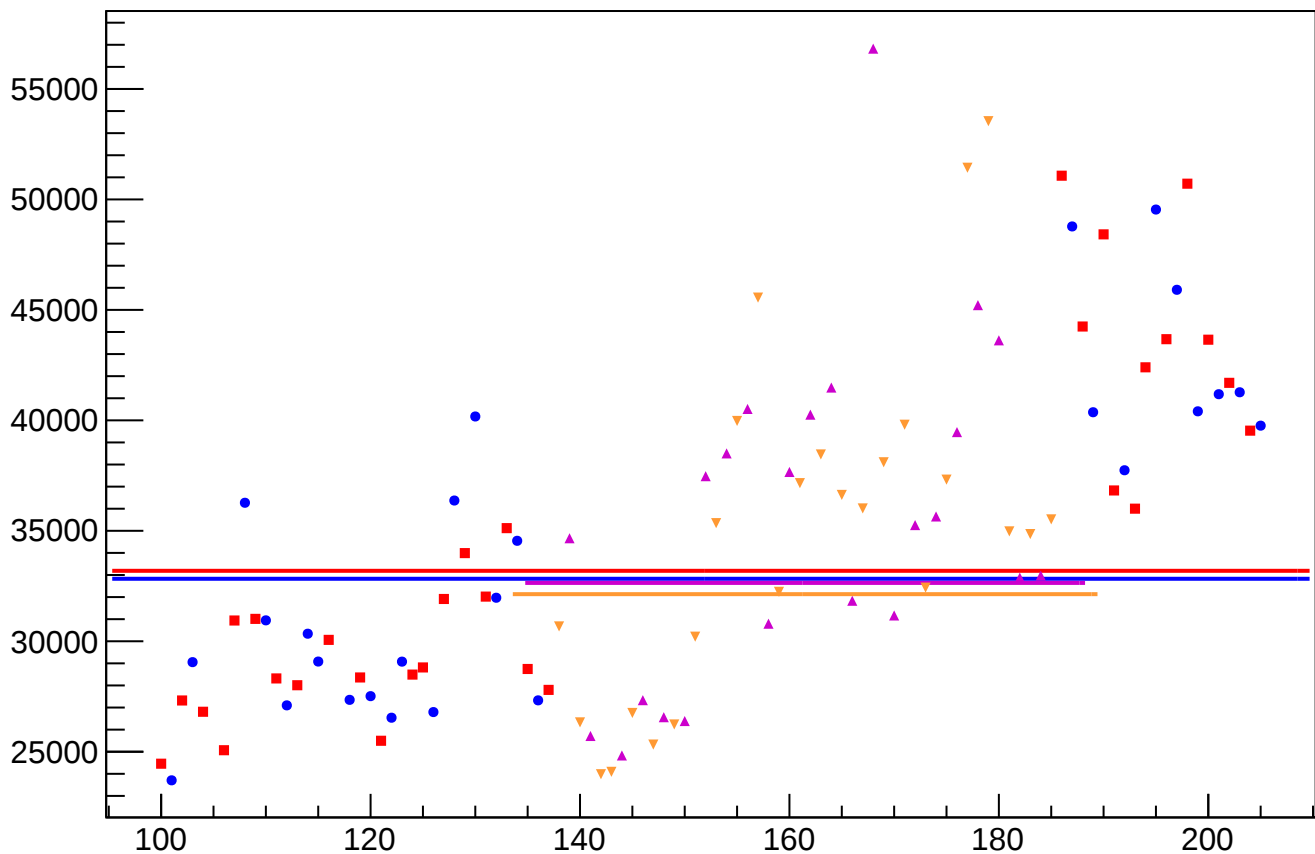
Right: -14.082 $\pm$ 6.500 χ^2/NDF : 58.6/55

In: -2.858 $\pm$ 6.077 χ^2/NDF :42.8/48

Out: -7.946 $\pm$ 5.853 χ^2/NDF :63.0/54

All: -5.498 $\pm$ 4.216 χ^2/NDF : 106.1/103

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 32828.857+/-6.618

χ^2/NDF : 1150348.4/25

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

Right Out: 33189.275+/-6.388

χ^2/NDF : 1238764.2/29

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

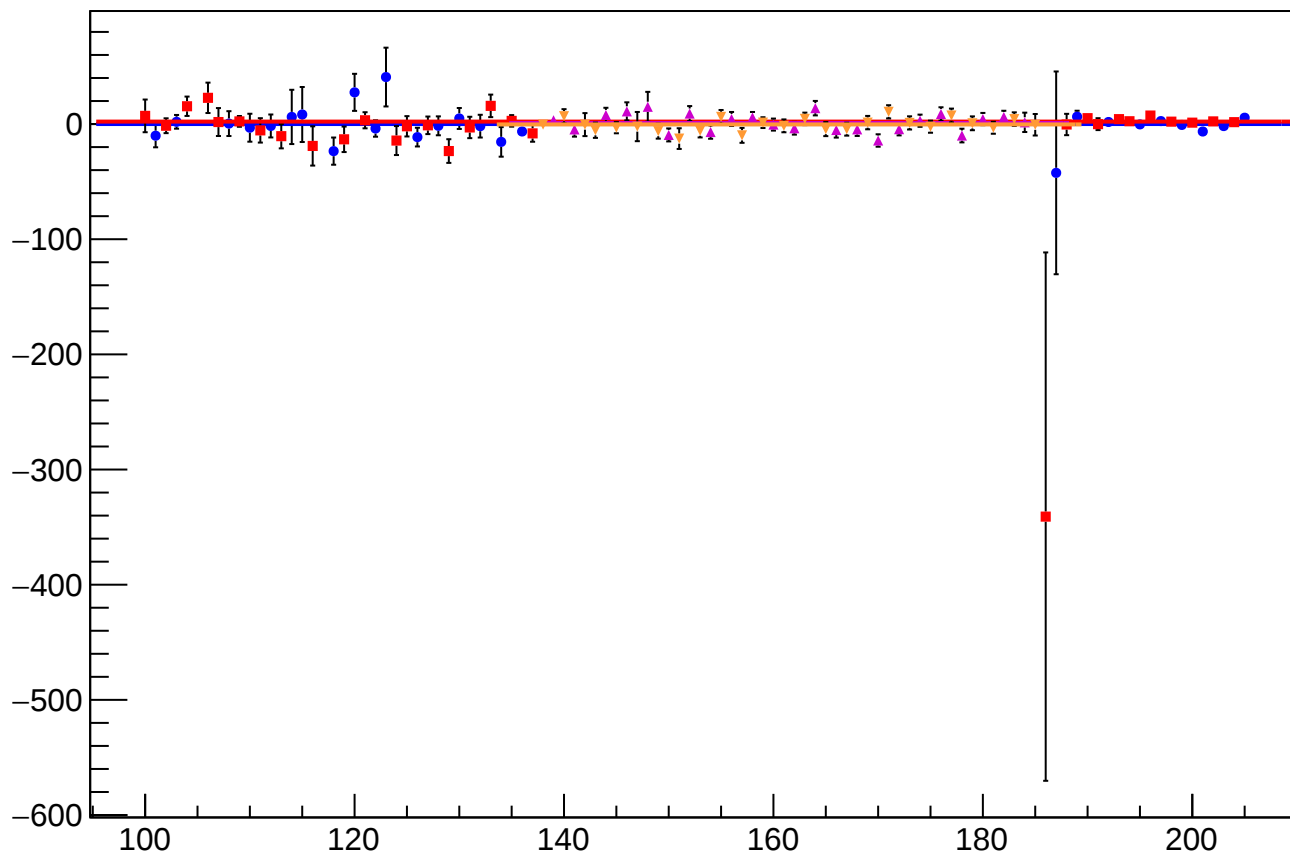
Right: 33015.444+/-4.596 χ^2/NDF : 2390647.9/55

In: 32720.286+/-4.297 χ^2/NDF : 2552976.0/48

Out: 32575.937+/-4.139 χ^2/NDF : 2794729.5/54

All: 32645.399+/-2.981 χ^2/NDF : 5348290.9/1

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.948 χ^2/NDF : 31.5/25

Left Out: -0.312 $\pm$ 1.172 χ^2/NDF : 17.6/24

Right Out: 2.141 $\pm$ 0.980 χ^2/NDF : 29.6/29

Left In: 0.908 $\pm$ 1.142 χ^2/NDF : 36.2/22

Left: 0.313 $\pm$ 0.818 χ^2/NDF : 54.4/47

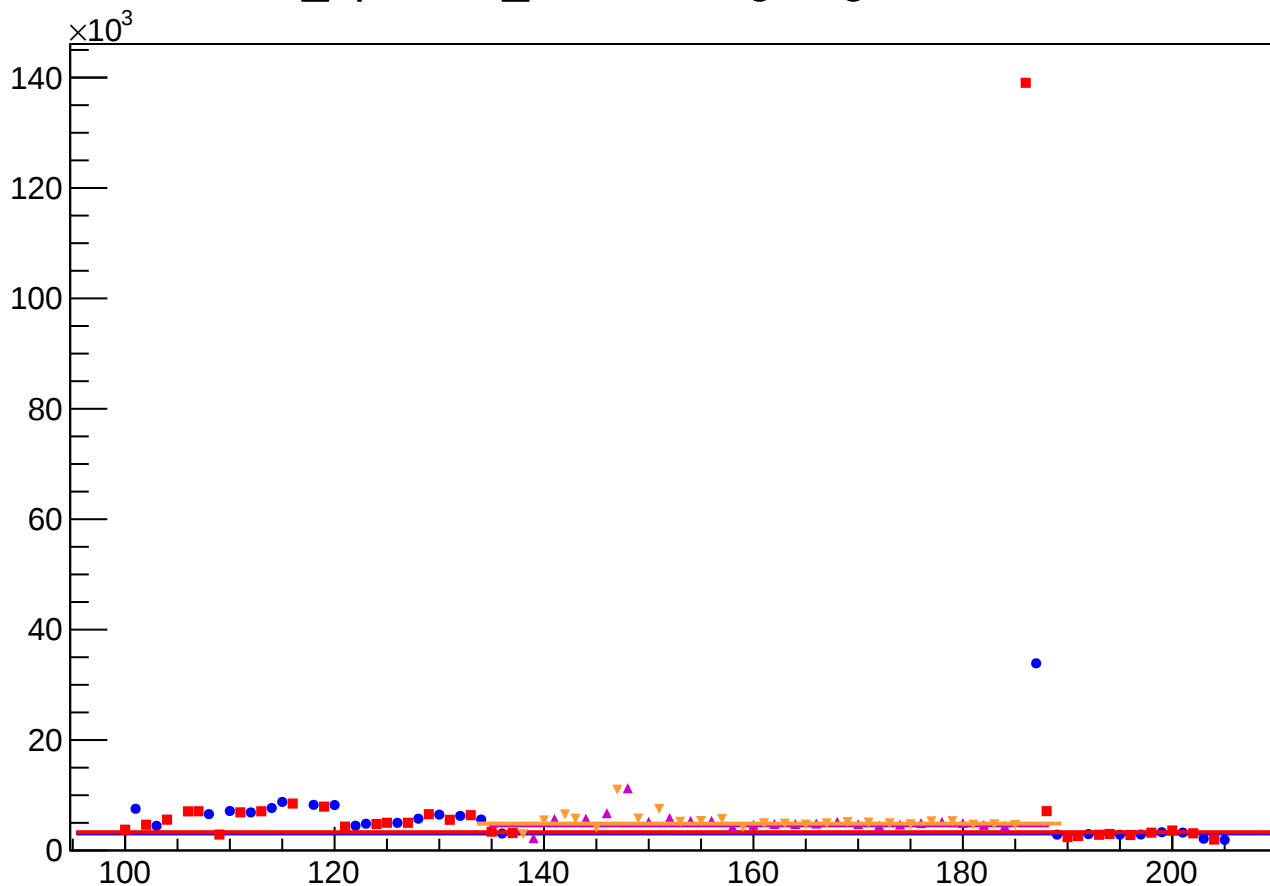
Right: 1.043 $\pm$ 0.681 χ^2/NDF : 63.6/55

In: 0.379 $\pm$ 0.729 χ^2/NDF : 68.1/48

Out: 1.132 $\pm$ 0.752 χ^2/NDF : 49.8/54

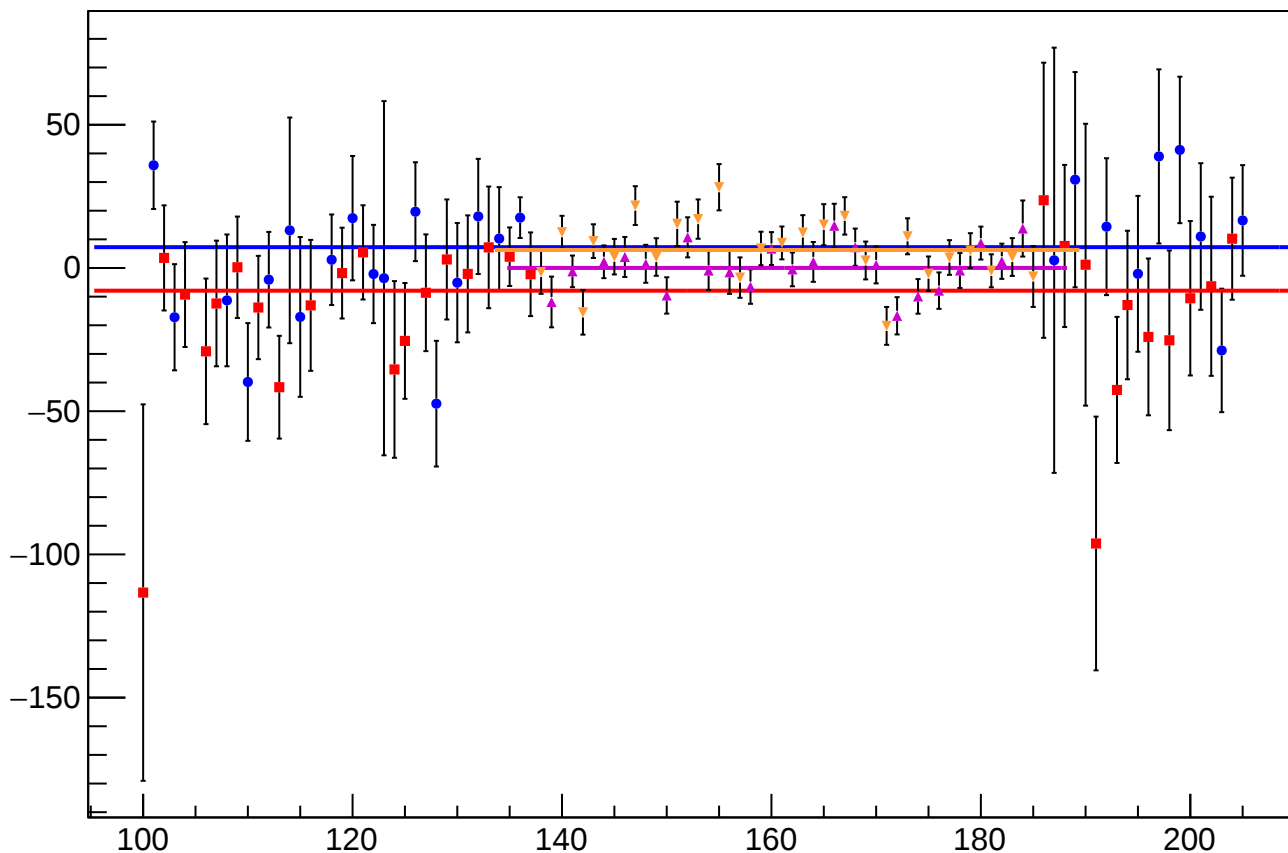
All: 0.744 $\pm$ 0.523 χ^2/NDF : 118.4/103

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3082.045 $\pm$ 0.670	χ^2/NDF : 4164294.3/25	Left: 4702.320 $\pm$ 0.578	χ^2/NDF : 4223993.0/47
Left Out: 4868.567 $\pm$ 0.829	χ^2/NDF : 1511151.0/24	Right: 3190.441 $\pm$ 0.482	χ^2/NDF : 8551229.2/55
Right Out: 3306.243 $\pm$ 0.693	χ^2/NDF : 4332840.0/29	In: 3678.423 $\pm$ 0.516	χ^2/NDF : 8739783.8/48
Left In: 4544.337 $\pm$ 0.808	χ^2/NDF : 2634314.4/22	Out: 3949.122 $\pm$ 0.531	χ^2/NDF : 7936702.1/54
		All: 3809.720 $\pm$ 0.370	χ^2/NDF : 16810086.7/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 7.270 ± 3.707 $\chi^2/\text{NDF}: 29.0/25$

Left Out: 6.296 ± 1.310 $\chi^2/\text{NDF}: 56.5/24$

Right Out: -7.923 ± 3.823 $\chi^2/\text{NDF}: 20.3/29$

Left In: 0.020 ± 1.353 $\chi^2/\text{NDF}: 29.9/22$

Left: 3.259 ± 0.941 $\chi^2/\text{NDF}: 97.5/47$

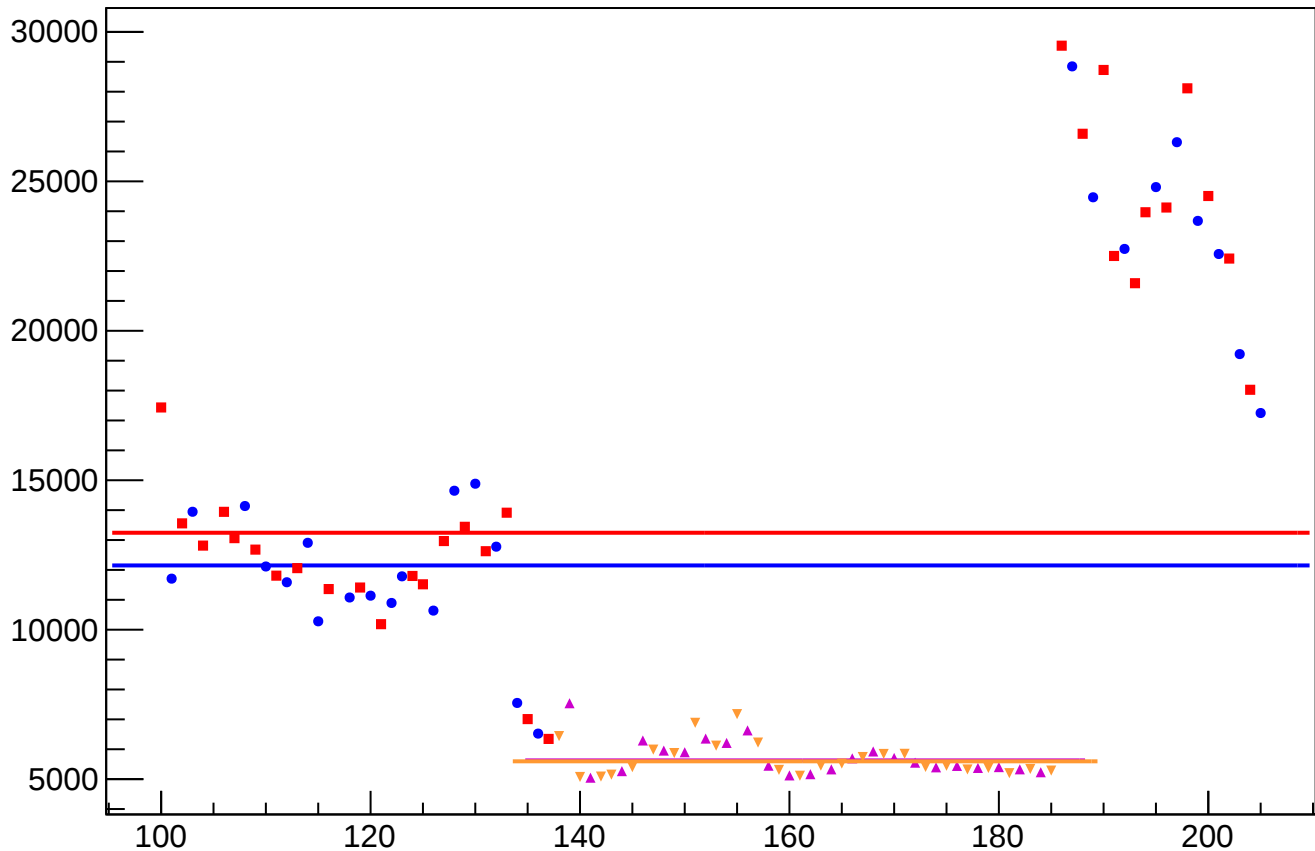
Right: -0.091 ± 2.661 $\chi^2/\text{NDF}: 57.5/55$

In: 0.873 ± 1.271 $\chi^2/\text{NDF}: 62.3/48$

Out: 4.801 ± 1.239 $\chi^2/\text{NDF}: 89.2/54$

All: 2.887 ± 0.887 $\chi^2/\text{NDF}: 156.4/103$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12149.724+/-2.621 χ^2/NDF : 4199780.5/25

Left Out: 5596.370+/-0.926 χ^2/NDF : 283998.1/24

Right Out: 13243.421+/-2.703 χ^2/NDF : 4262616.1/29

Left In: 5627.283+/-0.957 χ^2/NDF : 279318.7/22

Left: 5611.329+/-0.666 χ^2/NDF : 563855.6/47

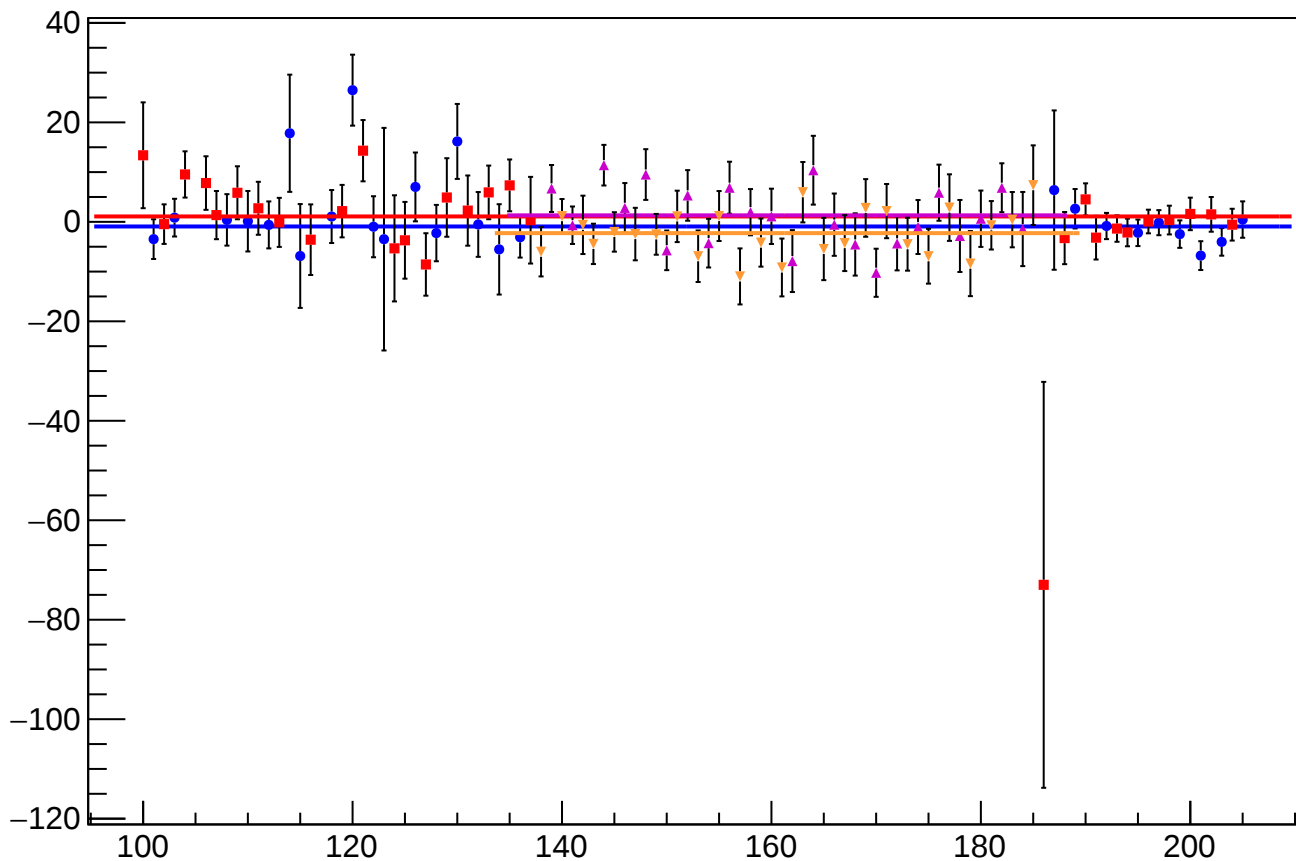
Right: 12679.627+/-1.882 χ^2/NDF : 8546764.0/55

In: 6394.256+/-0.899 χ^2/NDF : 9943864.2/48

Out: 6400.014+/-0.876 χ^2/NDF : 11706791.6/54

All: 6397.207+/-0.627 χ^2/NDF : 21650676.8/101

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.930 $\pm$ 0.825 χ^2/NDF : 32.7/25

Left Out: -2.268 $\pm$ 1.029 χ^2/NDF : 15.4/24

Right Out: 1.087 $\pm$ 0.794 χ^2/NDF : 26.8/29

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

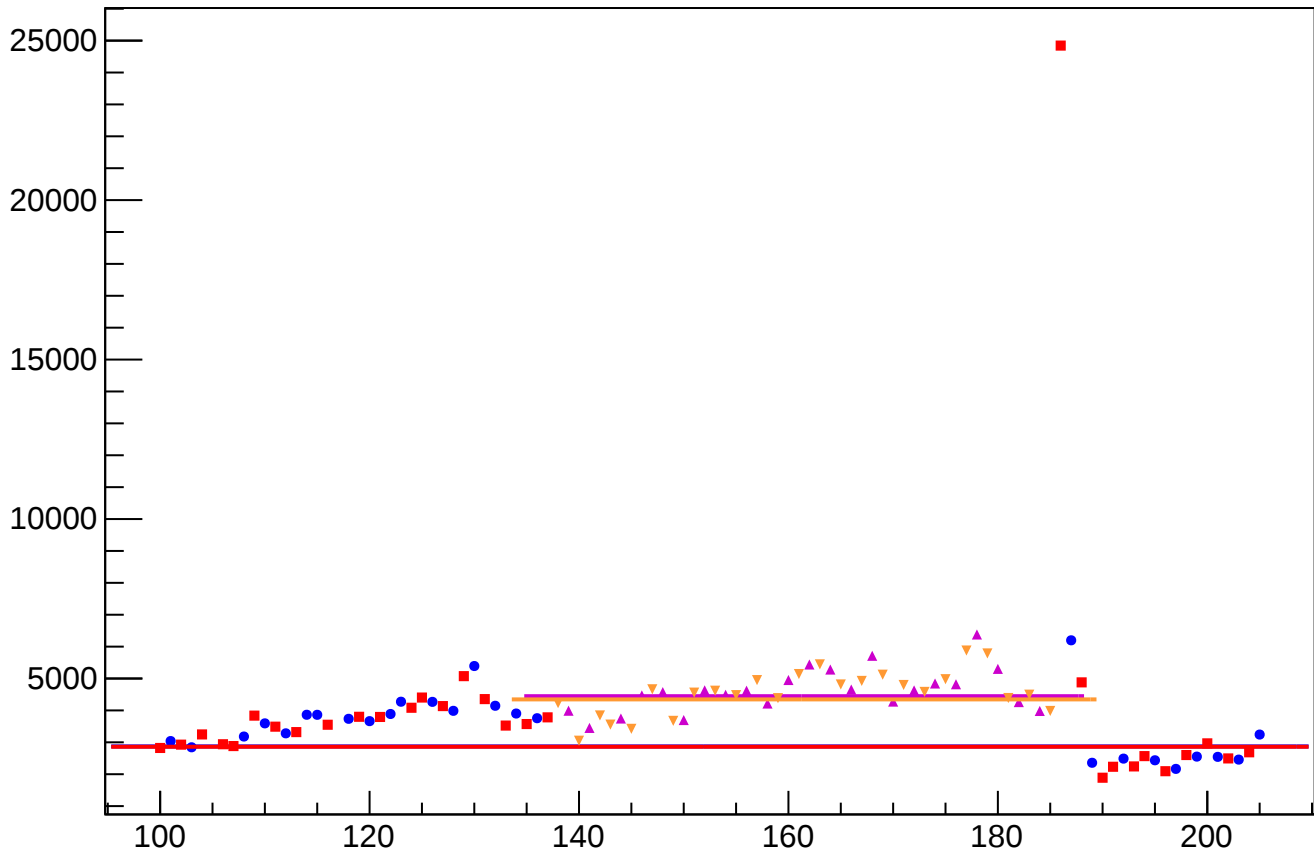
Right: 0.117 $\pm$ 0.572 χ^2/NDF : 62.6/55

In: -0.104 $\pm$ 0.655 χ^2/NDF : 66.2/48

Out: -0.164 $\pm$ 0.629 χ^2/NDF : 48.8/54

All: -0.135 $\pm$ 0.453 χ^2/NDF : 115.0/103

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2871.552+/-0.583 χ^2/NDF : 1293575.5/25

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2860.756+/-0.561 χ^2/NDF : 2263754.2/29

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

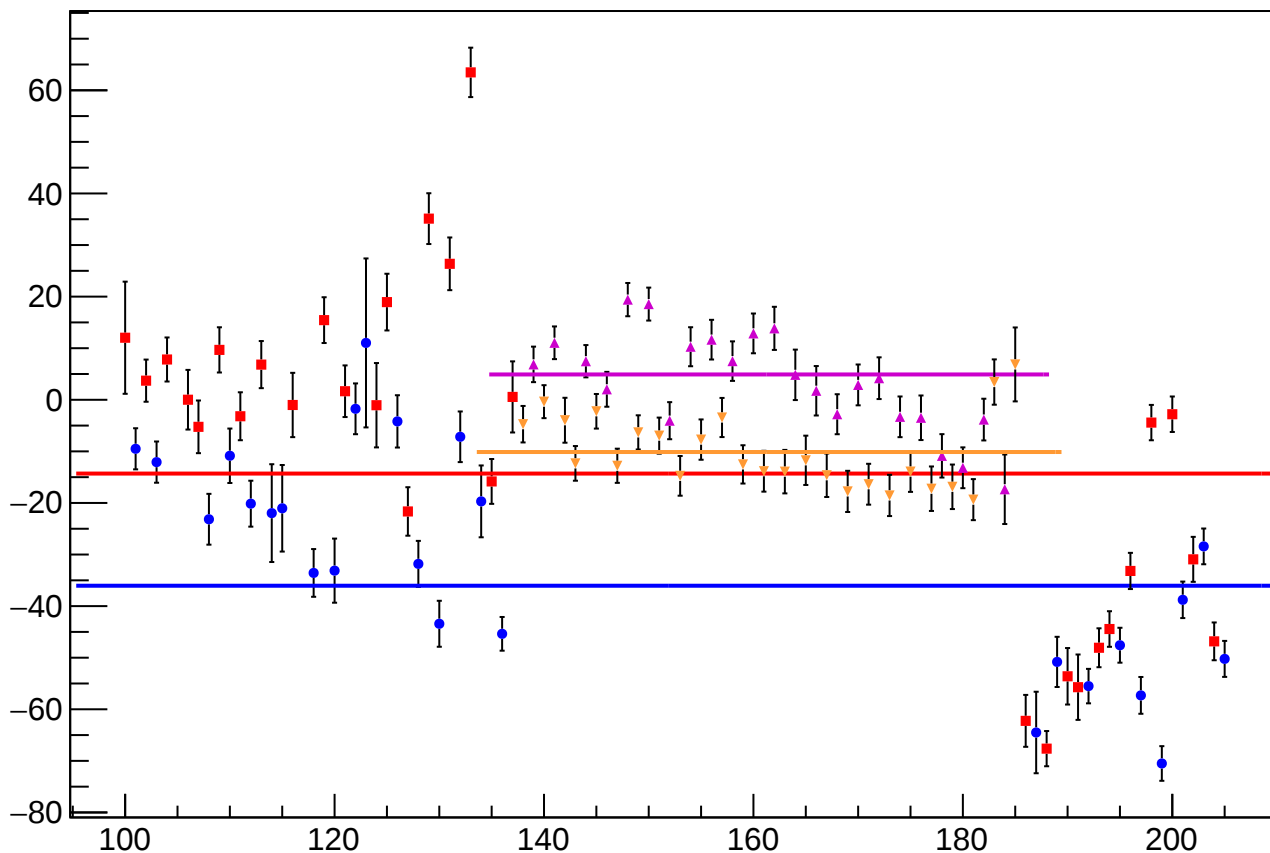
Right: 2865.949+/-0.404 χ^2/NDF : 3557507.6/55

In: 3453.427+/-0.463 χ^2/NDF : 4691476.1/48

Out: 3414.429+/-0.445 χ^2/NDF : 5872790.7/54

All: 3433.136+/-0.321 χ^2/NDF : 10567958.6/1

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -36.047 ± 0.864 χ^2/NDF : 507.4/25

Left Out: -10.125 ± 0.775 χ^2/NDF : 67.9/24

Right Out: -14.303 ± 0.827 χ^2/NDF : 1379.6/29

Left In: 4.911 ± 0.797 χ^2/NDF : 127.9/22

Left: -2.814 ± 0.556 χ^2/NDF : 378.7/47

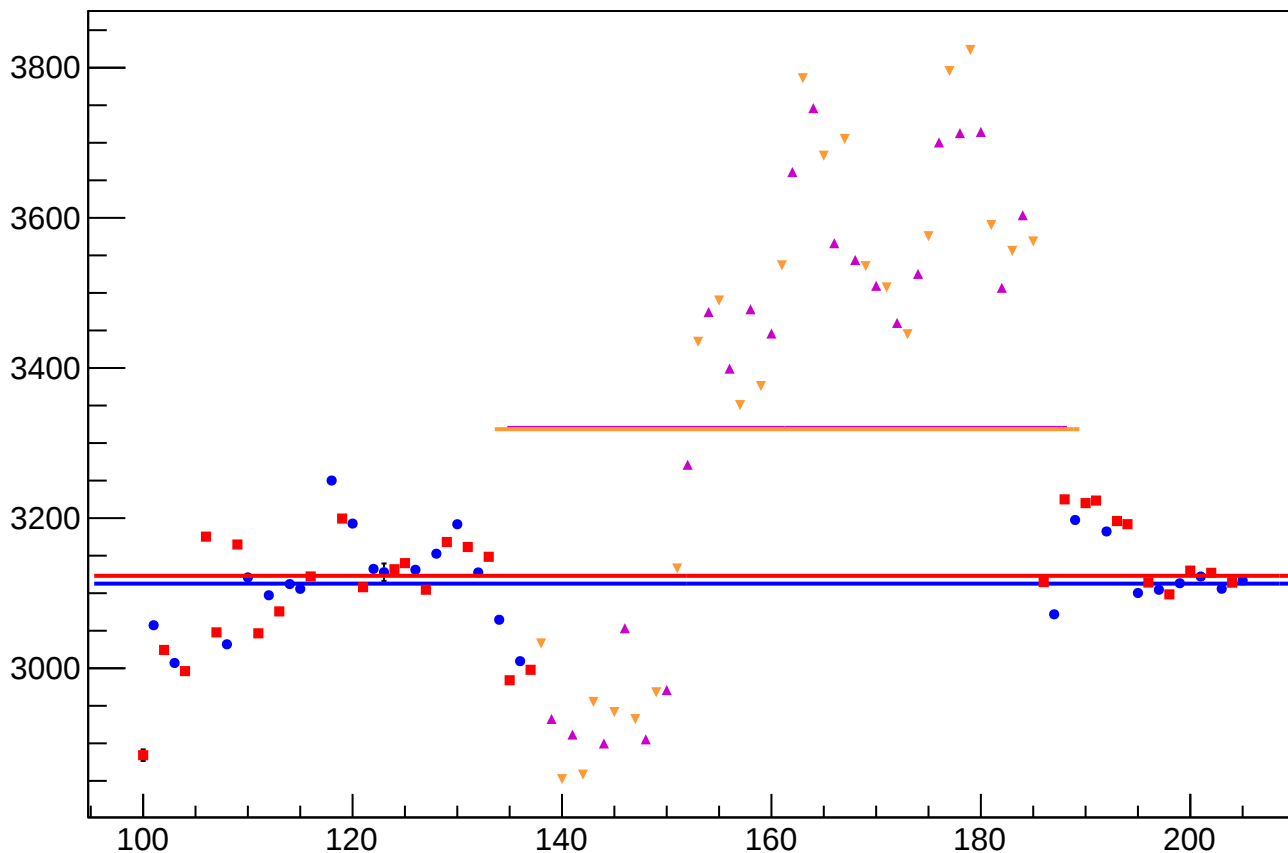
Right: -24.704 ± 0.598 χ^2/NDF : 2217.3/55

In: -13.920 ± 0.586 χ^2/NDF : 1849.1/48

Out: -12.078 ± 0.566 χ^2/NDF : 1461.1/54

All: -12.967 ± 0.407 χ^2/NDF : 3315.3/103

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3112.735 $\pm$ 0.611 χ^2 /NDF: 9000.1/25

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3123.155 $\pm$ 0.585 χ^2 /NDF: 13741.5/29

Left In: 3320.170 $\pm$ 0.564 χ^2 /NDF:287634.9/22

Left: 3319.315 $\pm$ 0.393 χ^2 /NDF: 625333.6/47

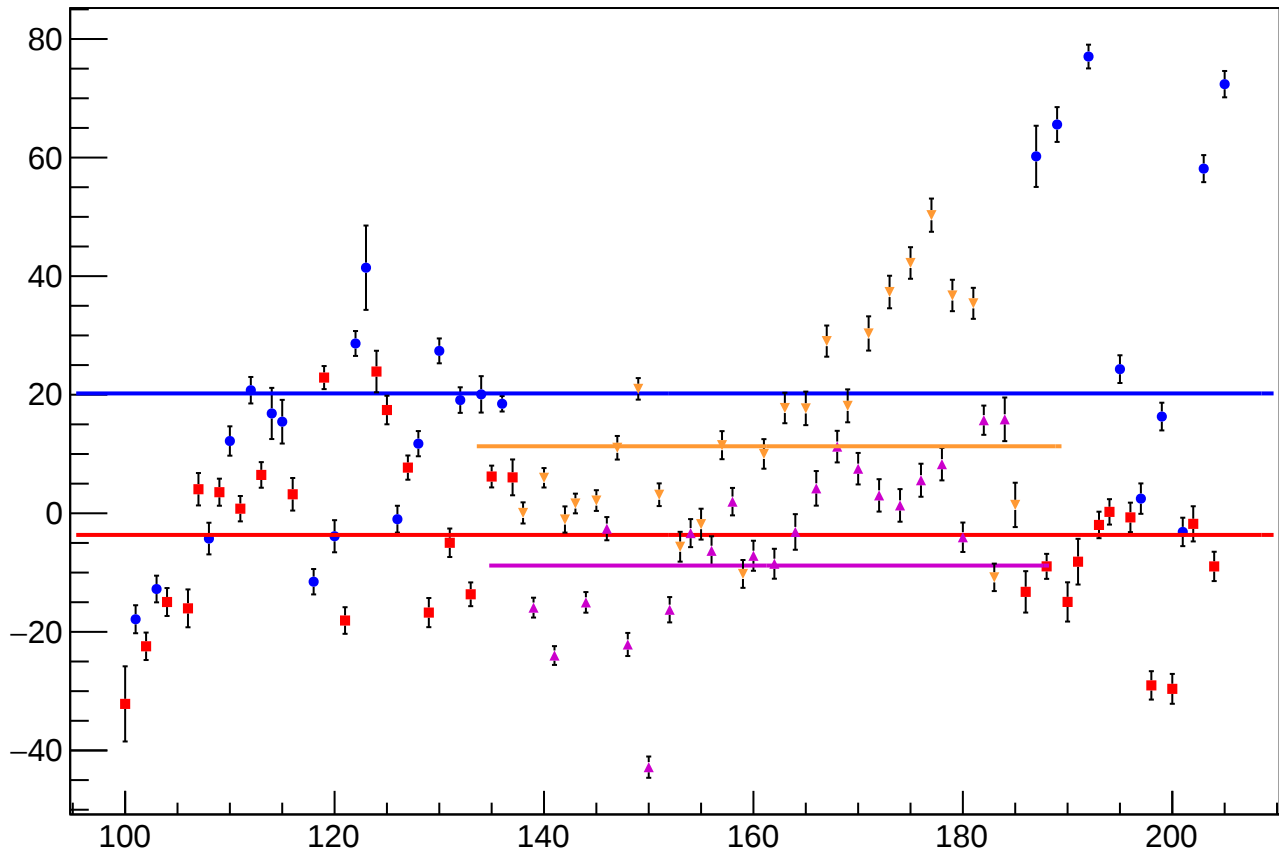
Right: 3118.170 $\pm$ 0.423 χ^2 /NDF: 22893.3/55

In: 3224.799 $\pm$ 0.414 χ^2 /NDF:358904.0/48

Out: 3227.158 $\pm$ 0.400 χ^2 /NDF:410787.1/54

All: 3226.019 $\pm$ 0.288 χ^2 /NDF: 769707.9/103

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 20.217 ± 0.464 χ^2/NDF : 3092.8/25

Left Out: 11.305 ± 0.454 χ^2/NDF : 1144.3/24

Right Out: -3.648 ± 0.448 χ^2/NDF : 919.9/29

Left In: -8.815 ± 0.475 χ^2/NDF : 942.2/22

Left: 1.711 ± 0.328 χ^2/NDF : 3023.6/47

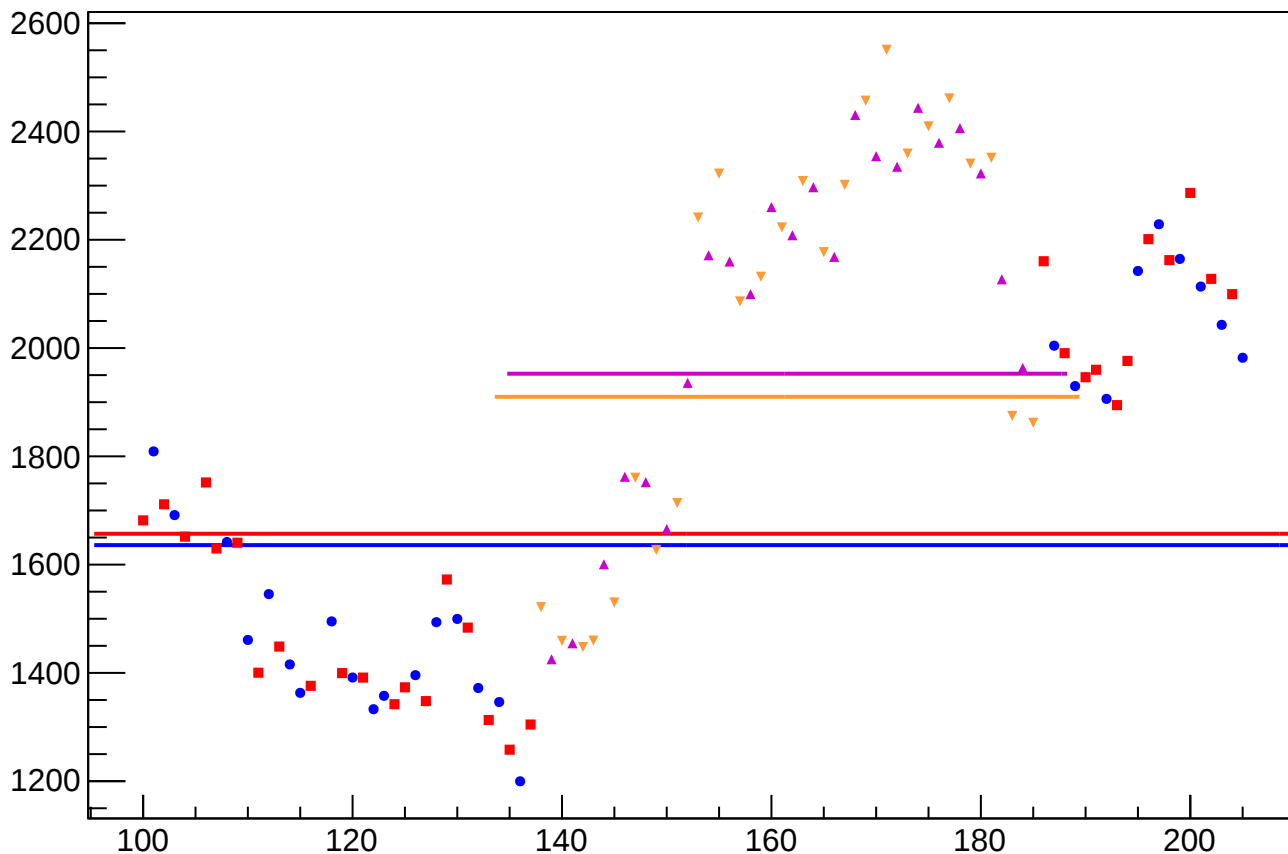
Right: 7.868 ± 0.322 χ^2/NDF : 5382.6/55

In: 6.057 ± 0.332 χ^2/NDF : 5945.7/48

Out: 3.730 ± 0.319 χ^2/NDF : 2614.1/54

All: 4.846 ± 0.230 χ^2/NDF : 8585.3/103

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1636.019 $\pm$ 0.328 χ^2 /NDF: 982421.8/25

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1657.005 $\pm$ 0.317 χ^2 /NDF: 1027532.2/29

Left In: 1952.637 $\pm$ 0.336 χ^2 /NDF:1065333.8/22

Left: 1930.313 $\pm$ 0.232 χ^2 /NDF: 2473233.3/47

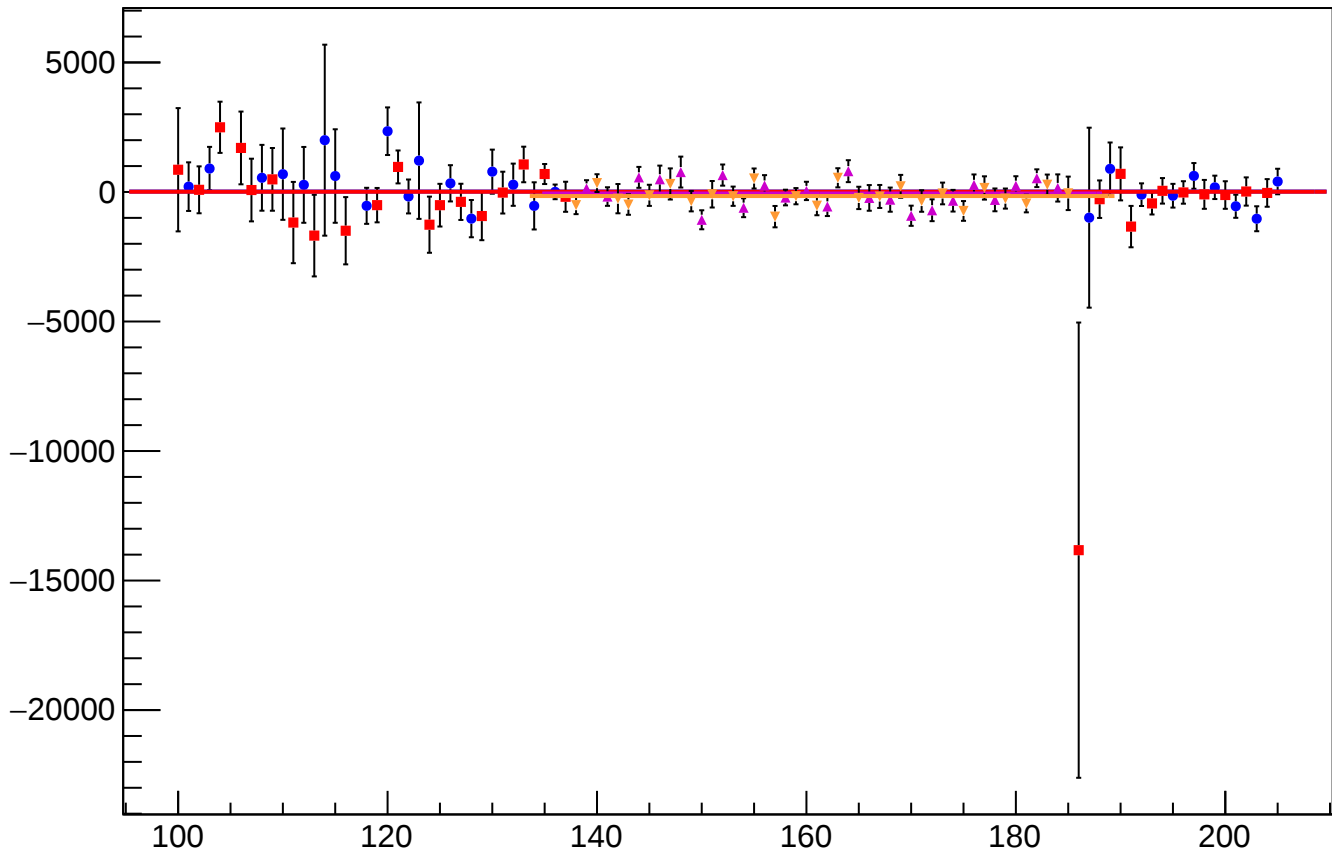
Right: 1646.879 $\pm$ 0.228 χ^2 /NDF: 2012072.9/55

In: 1790.441 $\pm$ 0.235 χ^2 /NDF:2502270.5/48

Out: 1781.815 $\pm$ 0.225 χ^2 /NDF:2741751.3/54

All: 1785.953 $\pm$ 0.163 χ^2 /NDF: 5244724.3/100

asym_sam1_mean vs Slug, Sign Corrected



Right In: 16.326 ± 124.871 $\chi^2/\text{NDF}: 22.6/25$

Left Out: -157.242 ± 80.796 $\chi^2/\text{NDF}: 22.0/24$

Right Out: 10.105 ± 126.753 $\chi^2/\text{NDF}: 29.9/29$

Left In: -58.934 ± 82.584 $\chi^2/\text{NDF}: 38.5/22$

Left: -109.164 ± 57.753 $\chi^2/\text{NDF}: 61.3/47$

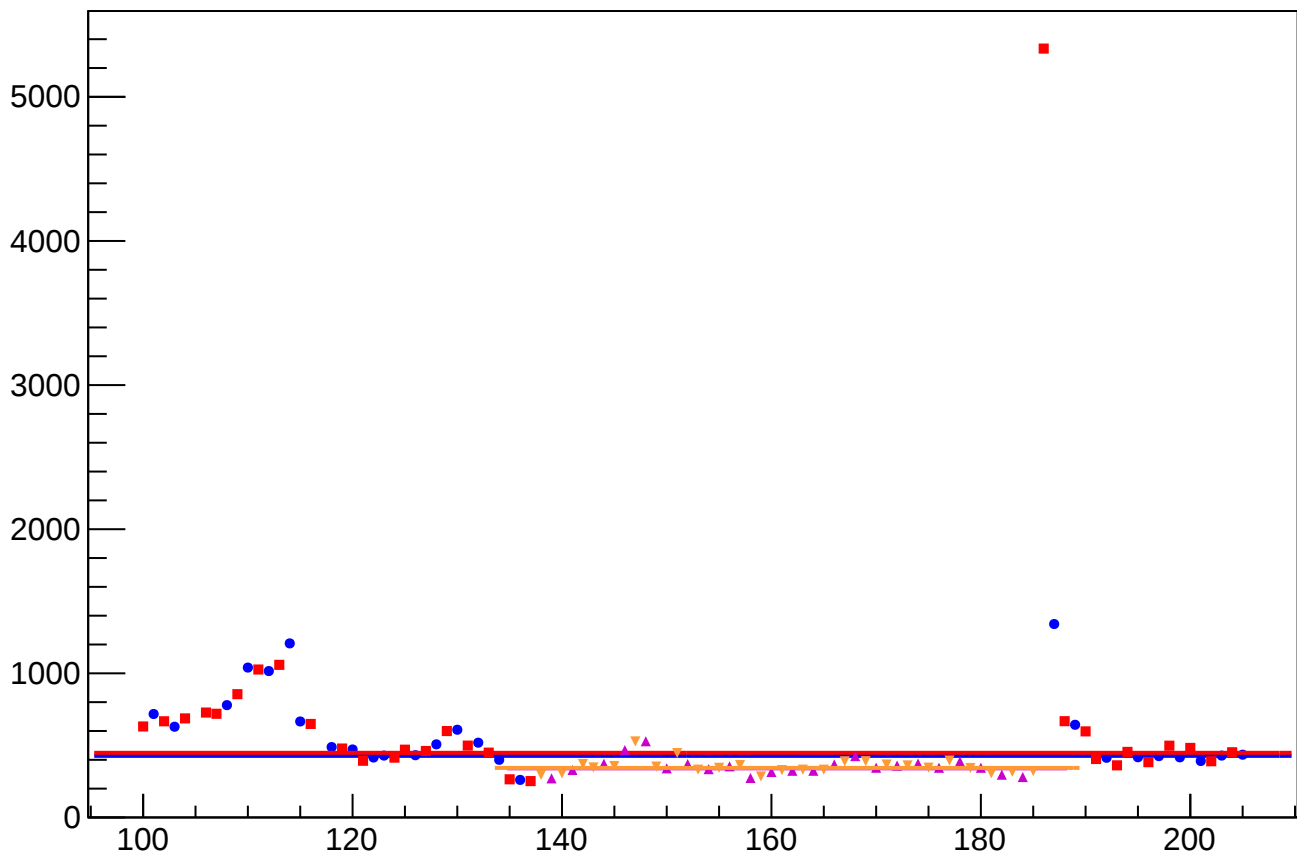
Right: 13.262 ± 88.955 $\chi^2/\text{NDF}: 52.4/55$

In: -36.033 ± 68.883 $\chi^2/\text{NDF}: 61.4/48$

Out: -108.892 ± 68.131 $\chi^2/\text{NDF}: 53.2/54$

All: -72.862 ± 48.440 $\chi^2/\text{NDF}: 115.1/103$

asym_sam1_rms vs Slug, Sign Corrected



Right In: 427.476+/-0.088 χ^2/NDF : 2252716.2/25

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 448.625+/-0.090 χ^2/NDF : 3058772.7/29

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

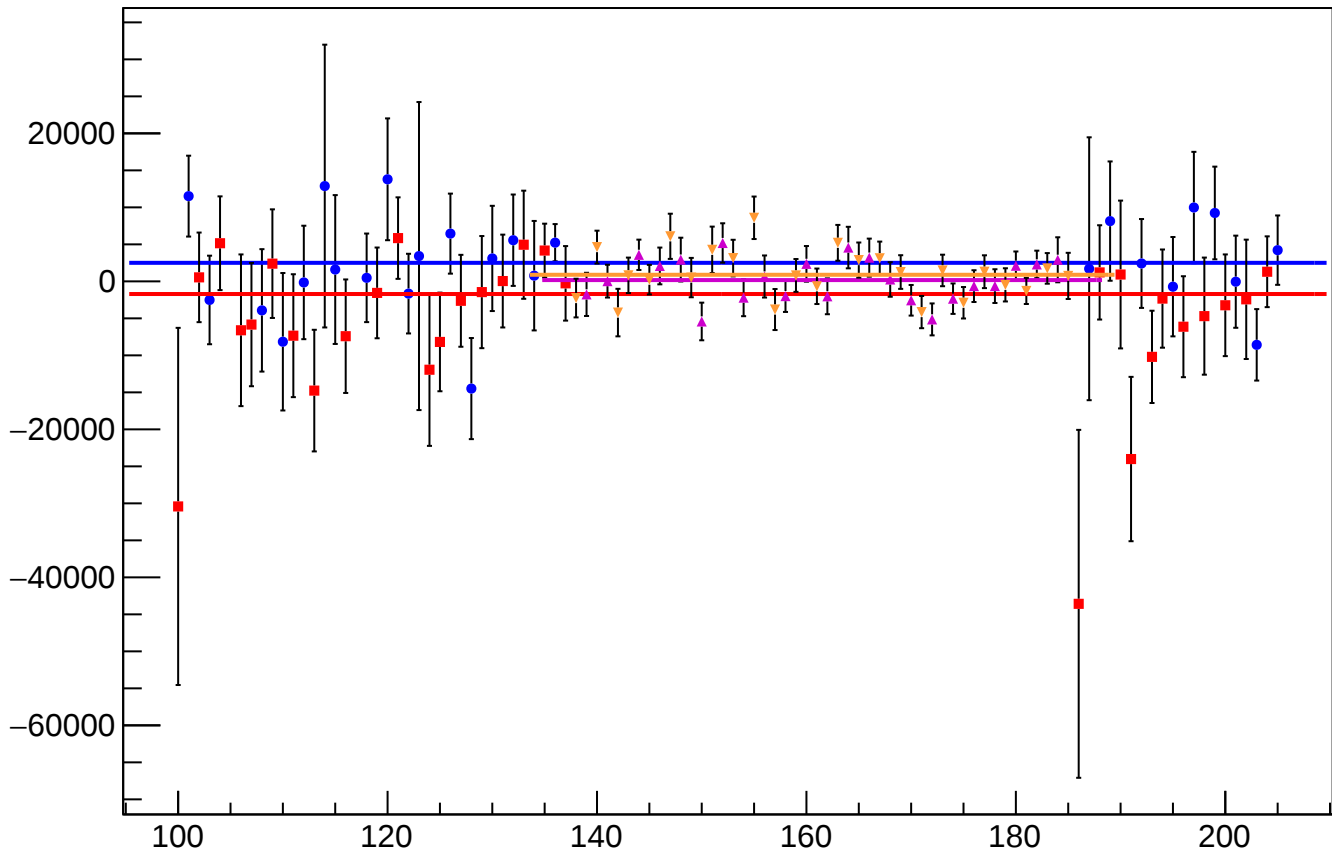
Right: 437.893+/-0.063 χ^2/NDF : 5339746.1/55

In: 367.228+/-0.049 χ^2/NDF : 3646600.9/48

Out: 374.091+/-0.048 χ^2/NDF : 4570753.4/54

All: 370.697+/-0.034 χ^2/NDF : 8227390.0/103

asym_sam2_mean vs Slug, Sign Corrected



Right In: 2505.346 $\pm$ 1194.397 χ^2 /NDF: 25.0/25

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -1710.219 $\pm$ 1242.448 χ^2 /NDF: 24.9/29

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

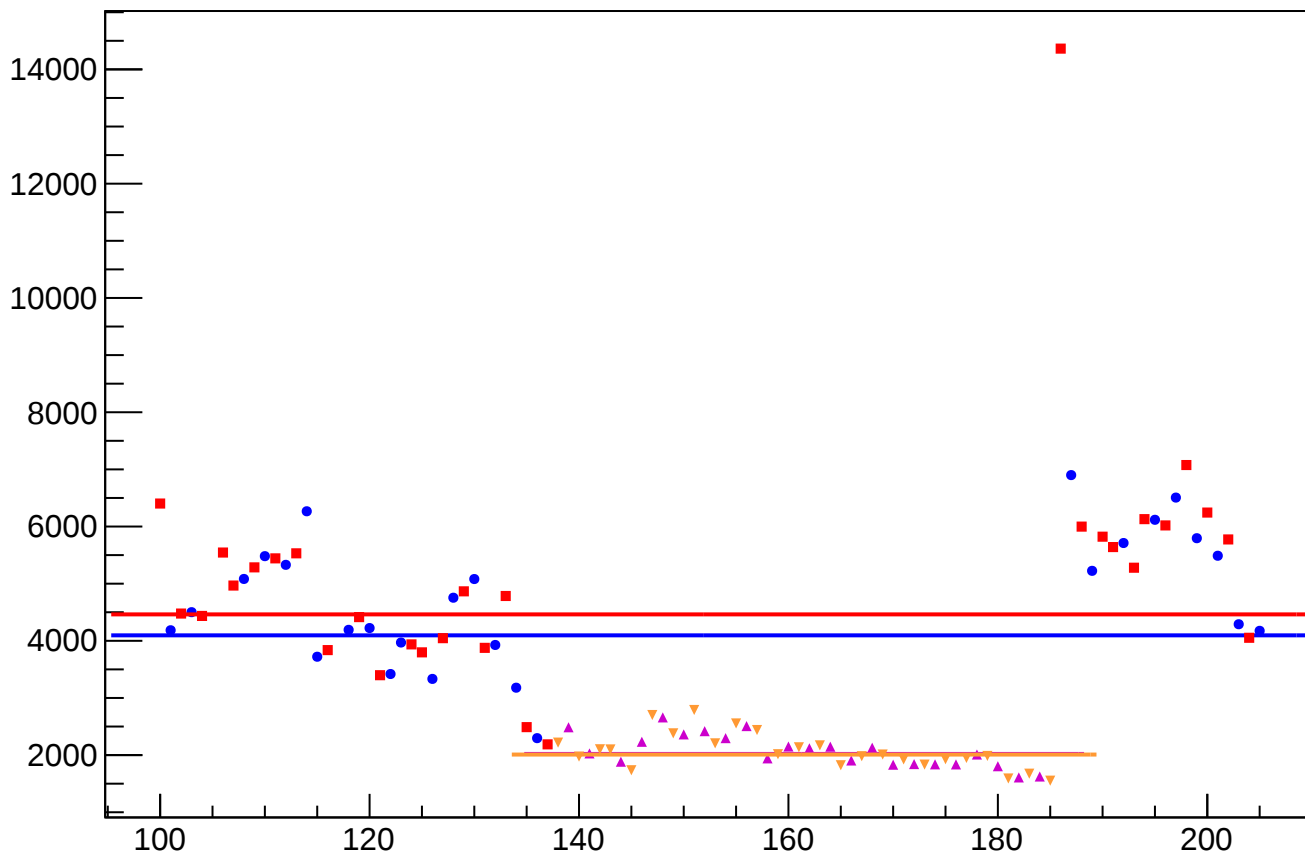
Right: 480.657 $\pm$ 861.052 χ^2 /NDF: 55.8/55

In: 506.206 $\pm$ 451.802 χ^2 /NDF:61.5/48

Out: 560.875 $\pm$ 442.264 χ^2 /NDF:66.6/54

All: 534.124 $\pm$ 316.046 χ^2 /NDF: 128.1/103

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4095.865 $\pm$ 0.845 χ^2/NDF : 2222480.4/25

Left Out: 2009.631 $\pm$ 0.335 χ^2/NDF : 709977.6/24

Right Out: 4462.617 $\pm$ 0.879 χ^2/NDF : 2492884.4/29

Left In: 2020.365 $\pm$ 0.345 χ^2/NDF : 573483.0/22

Left: 2014.833 $\pm$ 0.240 χ^2/NDF : 1283959.2/47

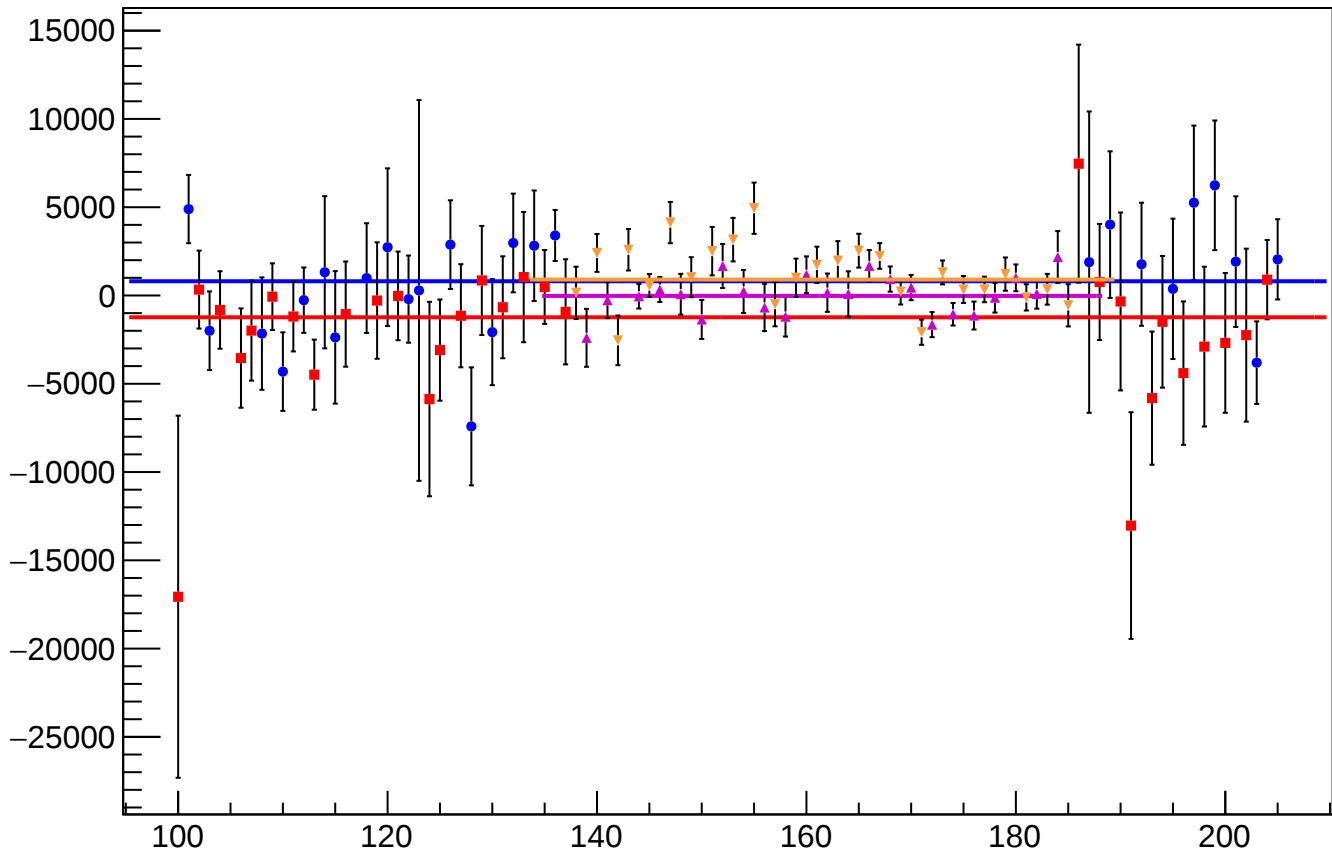
Right: 4272.012 $\pm$ 0.609 χ^2/NDF : 4805934.3/55

In: 2317.342 $\pm$ 0.319 χ^2/NDF : 7971017.7/48

Out: 2320.445 $\pm$ 0.313 χ^2/NDF : 10010911.0/54

All: 2318.927 $\pm$ 0.223 χ^2/NDF : 17981976.9/1

asym_sam3_mean vs Slug, Sign Corrected



Right In: 805.712 $\pm$ 544.406 χ^2/NDF : 33.7/25

Left Out: 902.091 $\pm$ 185.850 χ^2/NDF : 63.5/24

Right Out: -1235.245 $\pm$ 536.712 χ^2/NDF : 18.5/29

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

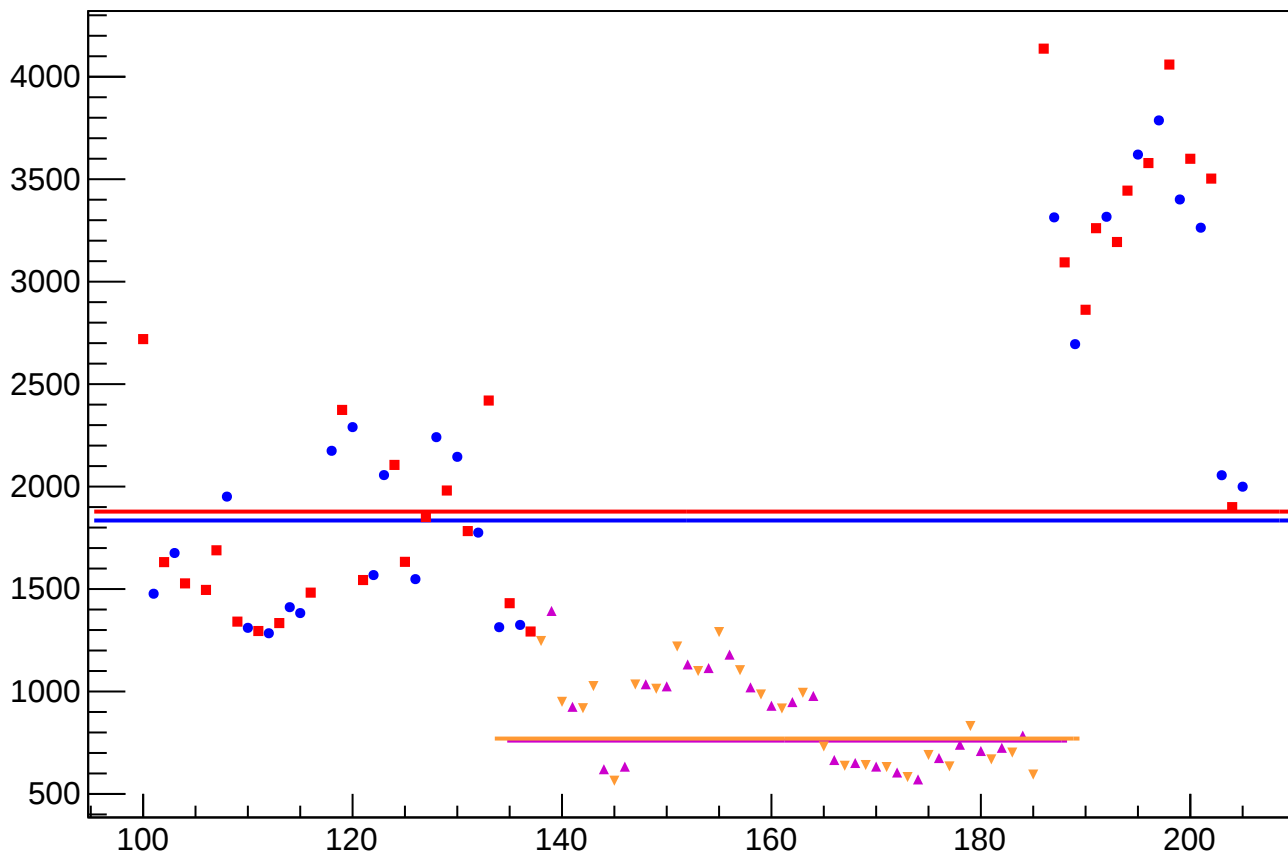
Right: -229.292 $\pm$ 382.204 χ^2/NDF : 59.3/55

In: 64.939 $\pm$ 177.818 χ^2/NDF : 64.0/48

Out: 673.250 $\pm$ 175.619 χ^2/NDF : 96.2/54

All: 372.879 $\pm$ 124.952 χ^2/NDF : 166.1/103

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1834.511 $\pm$ 0.385 χ^2 /NDF: 2868960.2/25

Left Out: 770.320 $\pm$ 0.131 χ^2 /NDF: 2287655.1/24

Right Out: 1877.978 $\pm$ 0.380 χ^2 /NDF: 3649379.5/29

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

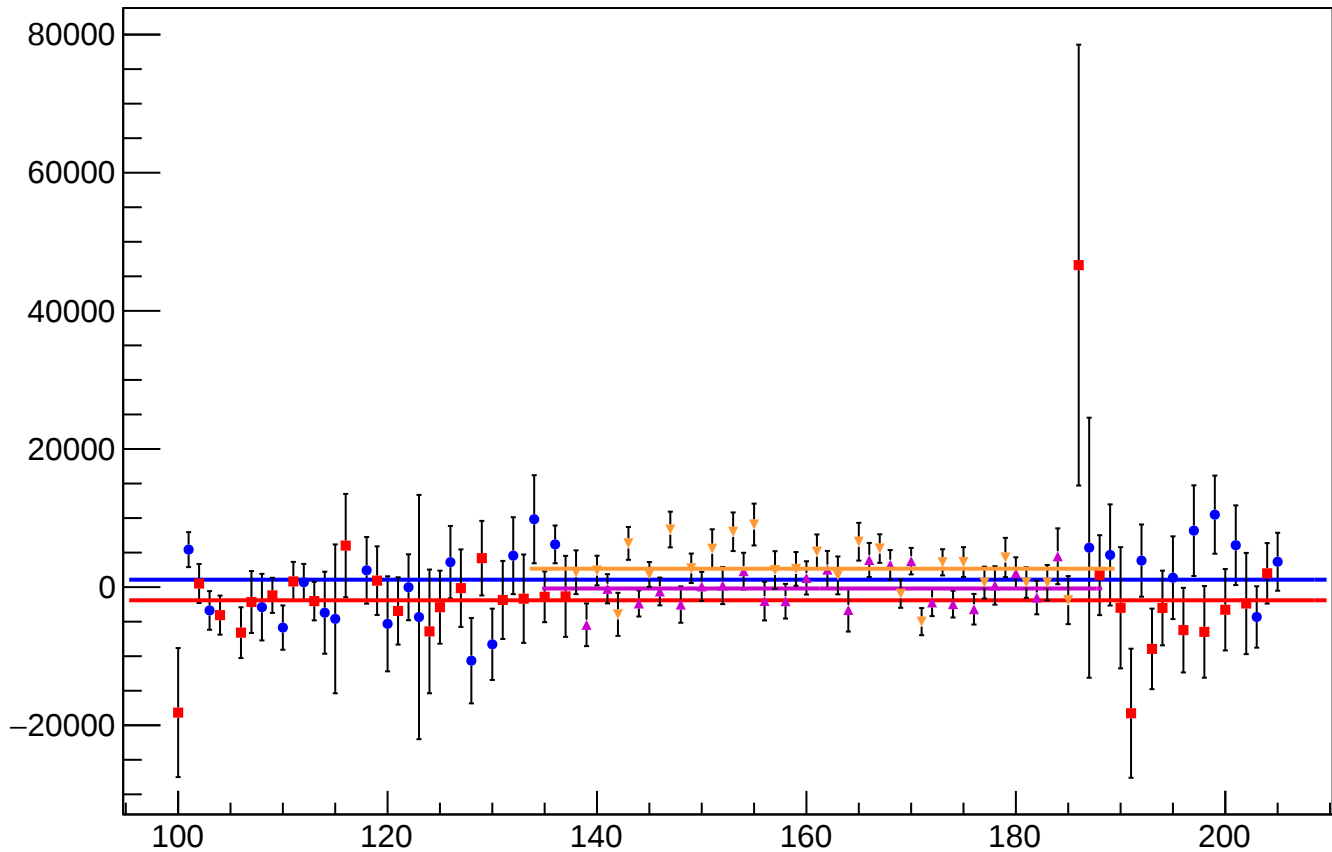
Right: 1856.554 $\pm$ 0.270 χ^2 /NDF: 6524805.4/55

In: 874.949 $\pm$ 0.126 χ^2 /NDF: 11811164.6/48

Out: 888.915 $\pm$ 0.124 χ^2 /NDF: 13543407.4/54

All: 882.019 $\pm$ 0.088 χ^2 /NDF: 25360817.7/10

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1079.078 $\pm$ 883.297 χ^2 /NDF: 32.9/25

Left Out: 2665.587 $\pm$ 479.773 χ^2 /NDF: 49.2/24

Right Out: -1904.206 $\pm$ 834.881 χ^2 /NDF: 19.3/29

Left In: -199.371 $\pm$ 492.082 χ^2 /NDF: 25.8/22

Left: 1269.388 $\pm$ 343.520 χ^2 /NDF: 92.4/47

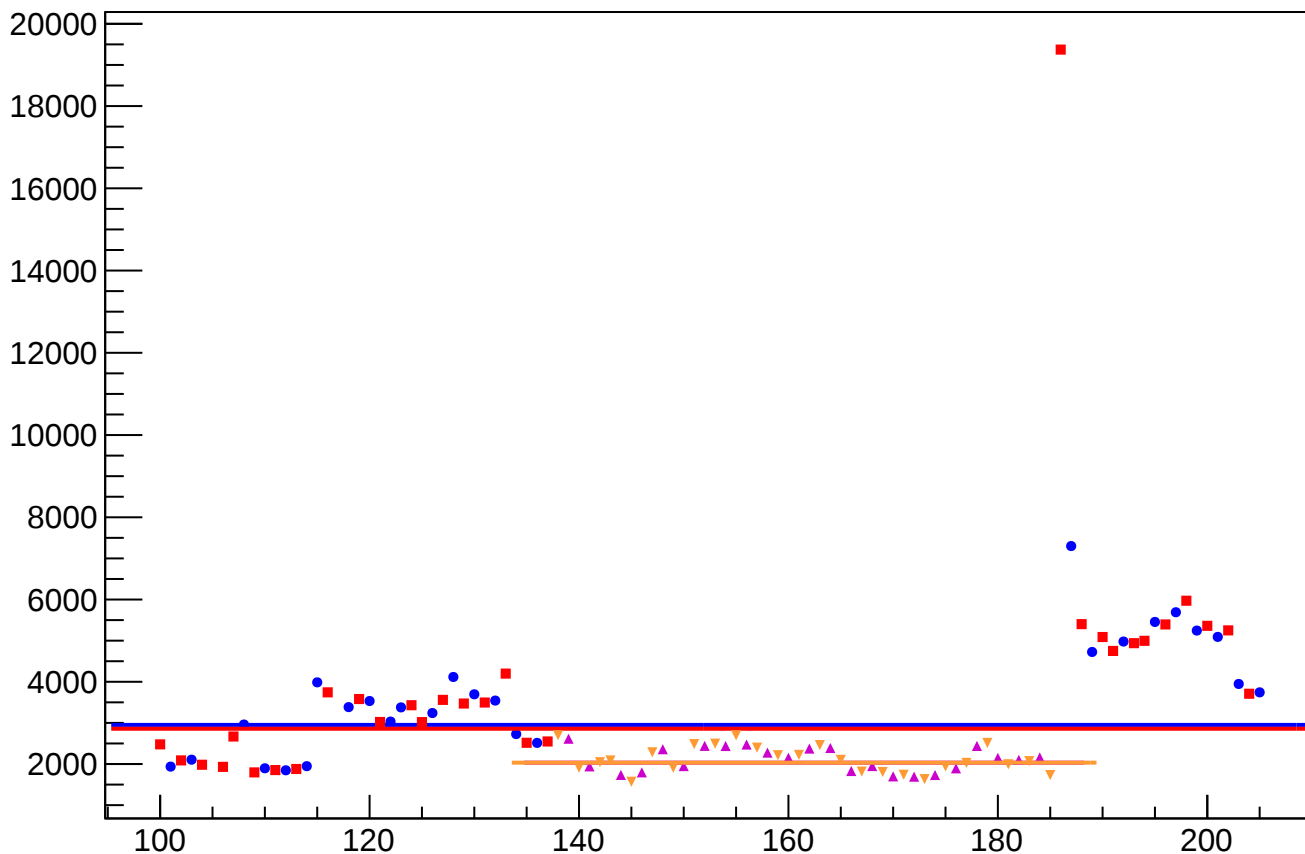
Right: -496.563 $\pm$ 606.745 χ^2 /NDF: 58.2/55

In: 103.429 $\pm$ 429.876 χ^2 /NDF: 60.3/48

Out: 1531.123 $\pm$ 415.979 χ^2 /NDF: 91.1/54

All: 840.724 $\pm$ 298.934 χ^2 /NDF: 157.0/103

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2951.370+/-0.625 χ^2/NDF : 3364148.6/25

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 2857.996+/-0.590 χ^2/NDF : 4729764.6/29

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

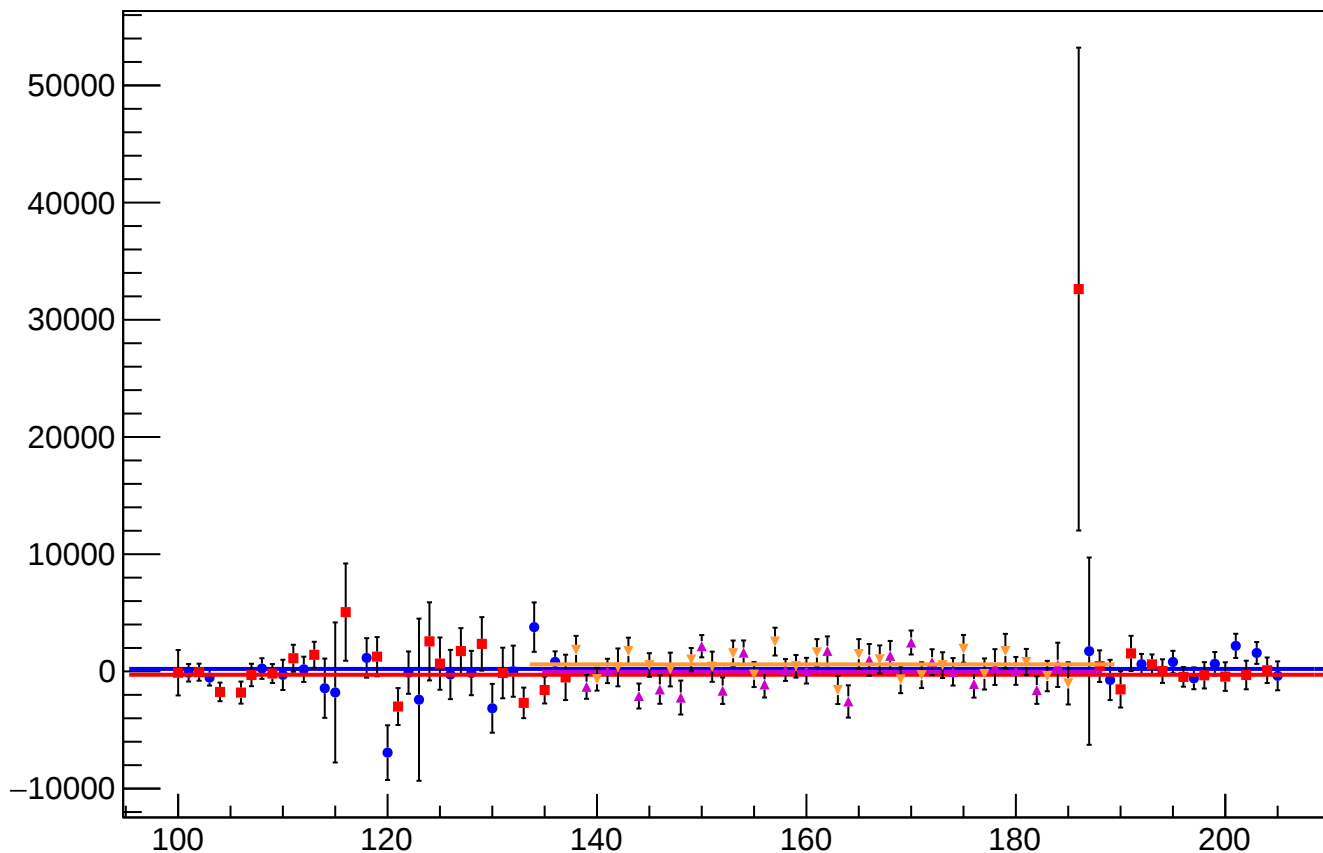
Right: 2902.054+/-0.429 χ^2/NDF : 8105717.2/55

In: 2250.251+/-0.304 χ^2/NDF : 5668070.4/48

Out: 2238.061+/-0.294 χ^2/NDF : 7020730.7/54

All: 2243.956+/-0.211 χ^2/NDF : 12689631.7/111

asym_sam5_mean vs Slug, Sign Corrected



Right In: 211.146+/-236.997 χ^2/NDF : 25.8/25

Left Out: 600.005+/-234.968 χ^2/NDF : 18.5/24

Right Out: -285.140+/-220.001 χ^2/NDF : 29.8/29

Left In: -41.559+/-240.807 χ^2/NDF : 36.4/22

Left: 287.096+/-168.174 χ^2/NDF : 58.5/47

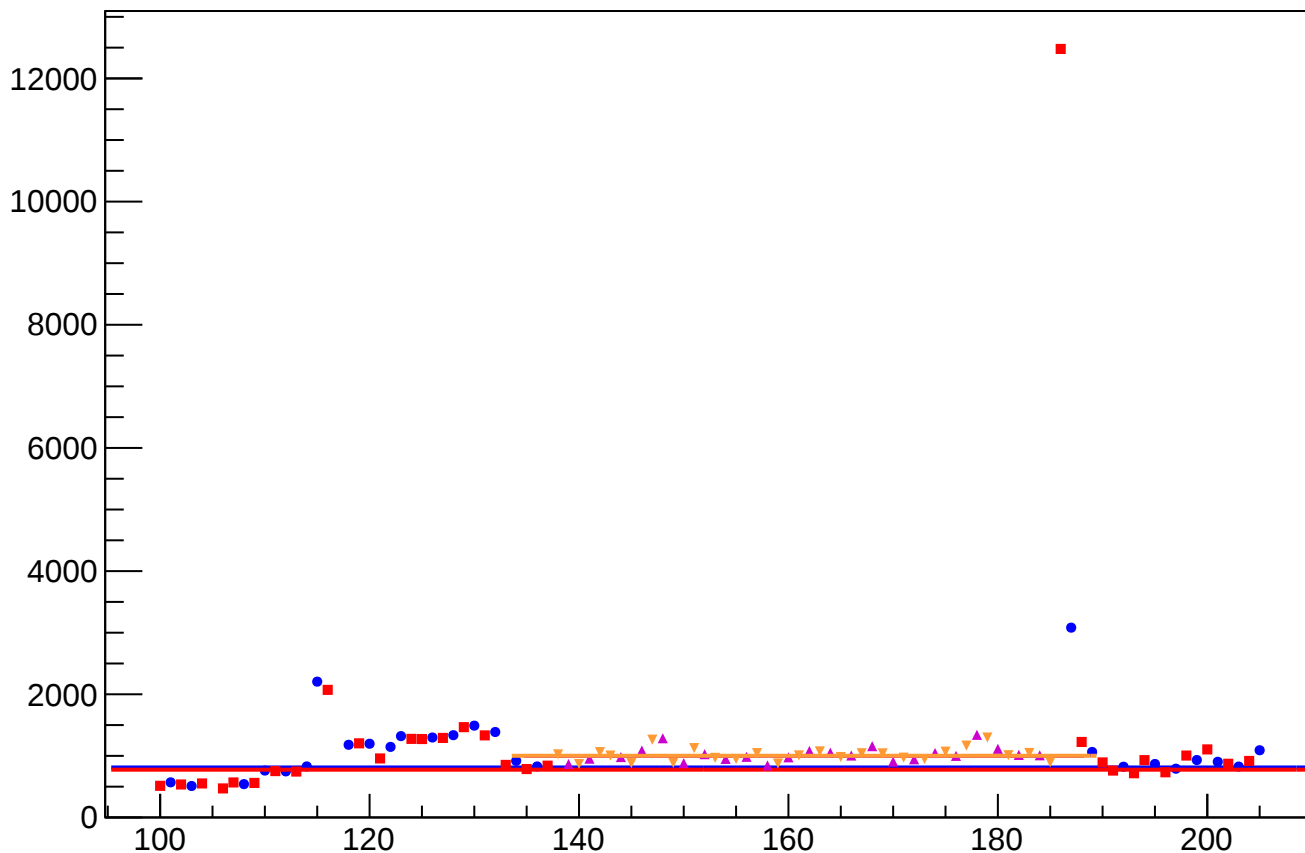
Right: -55.429+/-161.238 χ^2/NDF : 58.0/55

In: 86.808+/-168.913 χ^2/NDF : 62.7/48

Out: 128.345+/-160.595 χ^2/NDF : 55.9/54

All: 108.625+/-116.387 χ^2/NDF : 118.6/103

asym_sam5_rms vs Slug, Sign Corrected



Right In: 811.602 $\pm$ 0.168 χ^2 /NDF: 2117197.3/25

Left Out: 1001.472 $\pm$ 0.166 χ^2 /NDF: 370299.3/24

Right Out: 775.698 $\pm$ 0.156 χ^2 /NDF: 3042052.7/29

Left In: 998.050 $\pm$ 0.170 χ^2 /NDF: 404656.2/22

Left: 999.803 $\pm$ 0.119 χ^2 /NDF: 775162.3/47

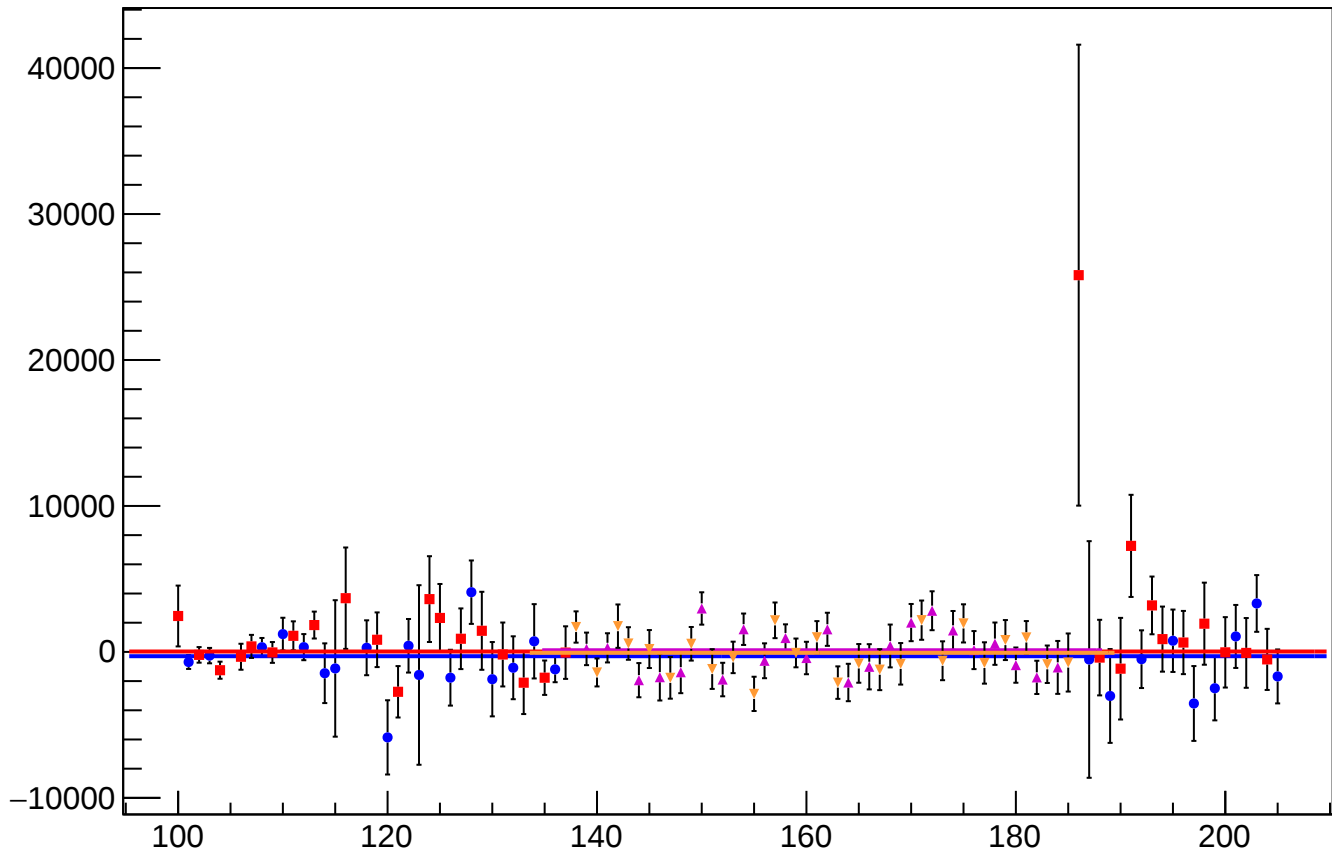
Right: 792.317 $\pm$ 0.114 χ^2 /NDF: 5183906.2/55

In: 903.340 $\pm$ 0.119 χ^2 /NDF: 3130893.5/48

Out: 881.165 $\pm$ 0.114 χ^2 /NDF: 4396305.2/54

All: 891.693 $\pm$ 0.082 χ^2 /NDF: 7545301.6/103

asym_sam6_mean vs Slug, Sign Corrected



Right In: -295.106 $\pm$ 238.161 χ^2 /NDF: 23.8/25

Left Out: -59.827 $\pm$ 246.503 χ^2 /NDF:31.0/24

Right Out: 27.612 $\pm$ 234.497 χ^2 /NDF: 32.1/29

Left In: 112.398 $\pm$ 255.409 χ^2 /NDF:34.9/22

Left: 23.230 $\pm$ 177.369 χ^2 /NDF: 66.1/47

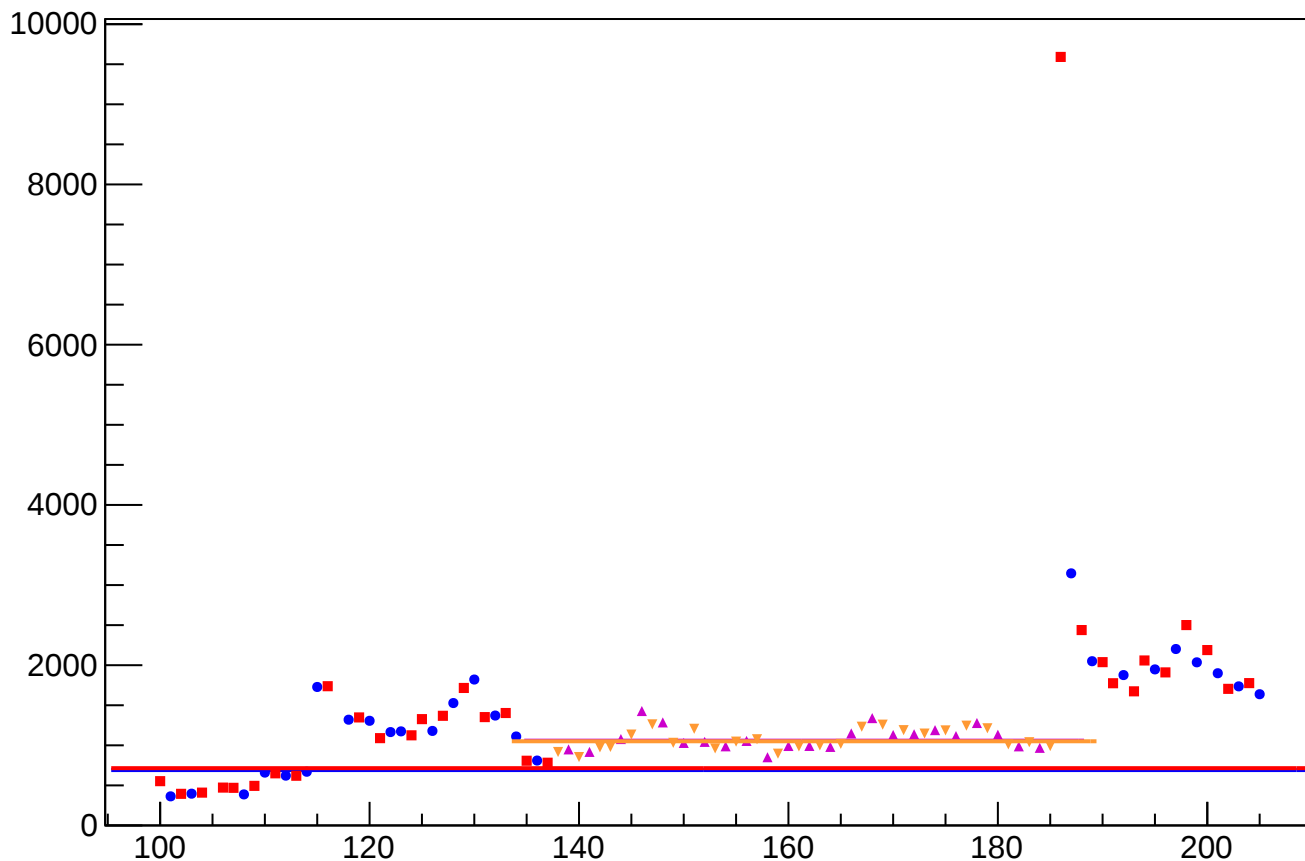
Right: -131.246 $\pm$ 167.095 χ^2 /NDF: 56.8/55

In: -105.577 $\pm$ 174.184 χ^2 /NDF:60.0/48

Out: -13.927 $\pm$ 169.900 χ^2 /NDF:63.2/54

All: -58.611 $\pm$ 121.624 χ^2 /NDF: 123.3/103

asym_sam6_rms vs Slug, Sign Corrected



Right In: 691.245+/-0.168 χ^2/NDF : 8869594.7/25

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 714.916+/-0.166 χ^2/NDF : 9585108.6/29

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

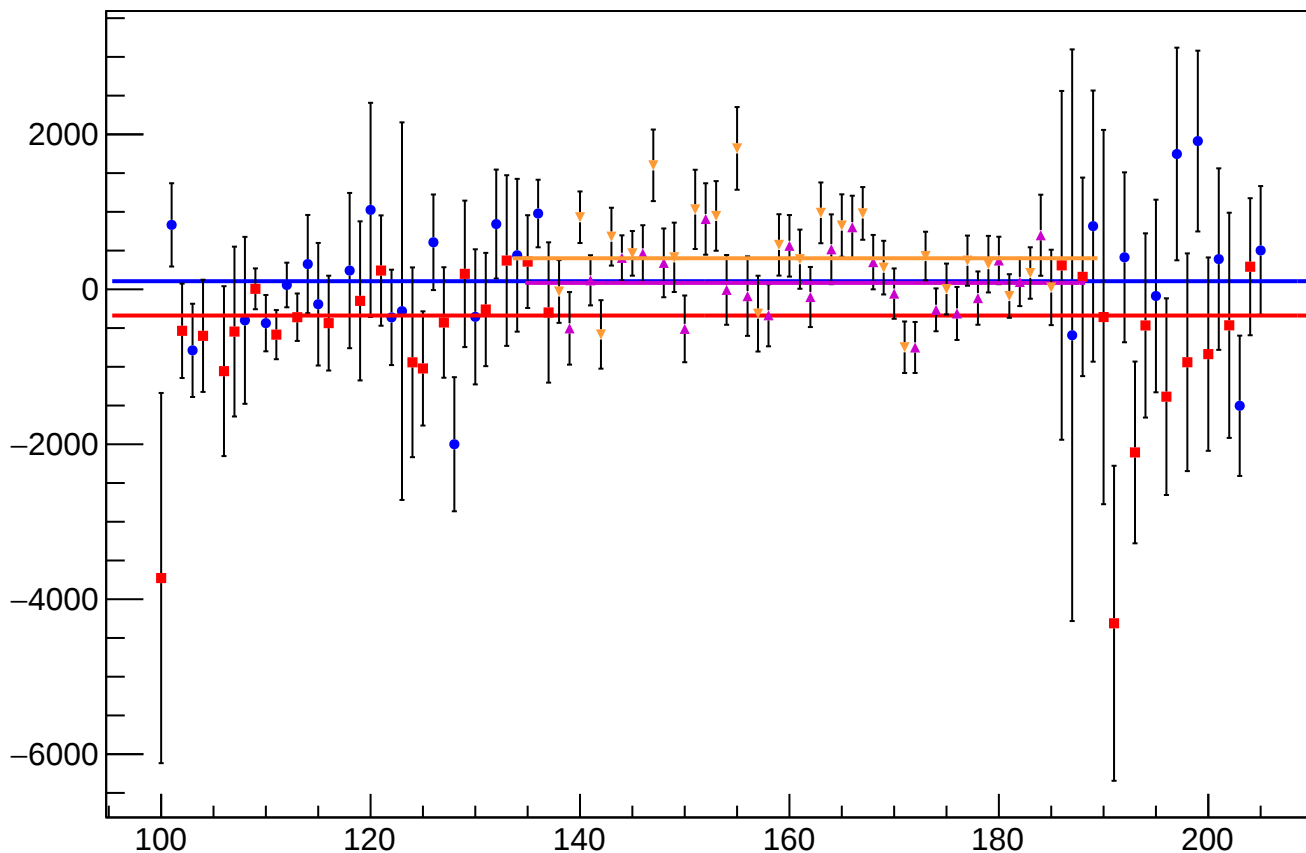
Right: 703.264+/-0.118 χ^2/NDF : 18464734.6/55

In: 861.867+/-0.123 χ^2/NDF : 11605220.2/48

Out: 874.408+/-0.120 χ^2/NDF : 12015797.1/54

All: 868.293+/-0.086 χ^2/NDF : 23626329.8/10

asym_sam7_mean vs Slug, Sign Corrected



Right In: 104.857 ± 134.522 $\chi^2/\text{NDF}: 27.5/25$

Left Out: 400.988 ± 74.546 $\chi^2/\text{NDF}: 52.1/24$

Right Out: -338.272 ± 123.545 $\chi^2/\text{NDF}: 16.8/29$

Left In: 82.890 ± 76.904 $\chi^2/\text{NDF}: 29.0/22$

Left: 246.889 ± 53.526 $\chi^2/\text{NDF}: 89.9/47$

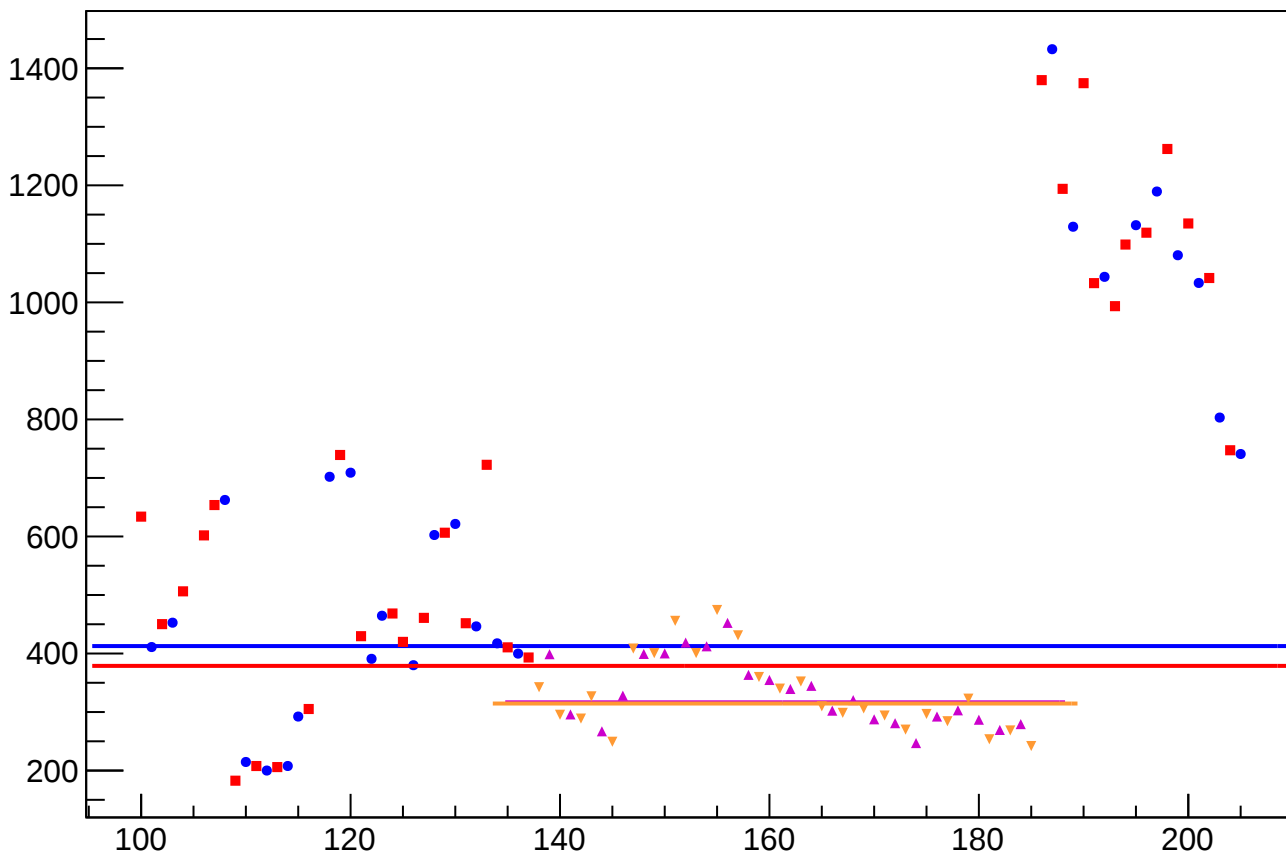
Right: -135.522 ± 90.993 $\chi^2/\text{NDF}: 50.2/55$

In: 88.300 ± 66.764 $\chi^2/\text{NDF}: 56.5/48$

Out: 203.674 ± 63.827 $\chi^2/\text{NDF}: 95.2/54$

All: 148.581 ± 46.136 $\chi^2/\text{NDF}: 153.2/103$

asym_sam7_rms vs Slug, Sign Corrected



Right In: 412.724+/-0.095 χ^2/NDF : 6902257.1/25

Left Out: 314.538+/-0.053 χ^2/NDF : 1112445.6/24

Right Out: 378.866+/-0.087 χ^2/NDF : 9316299.3/29

Left In: 316.647+/-0.054 χ^2/NDF : 920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

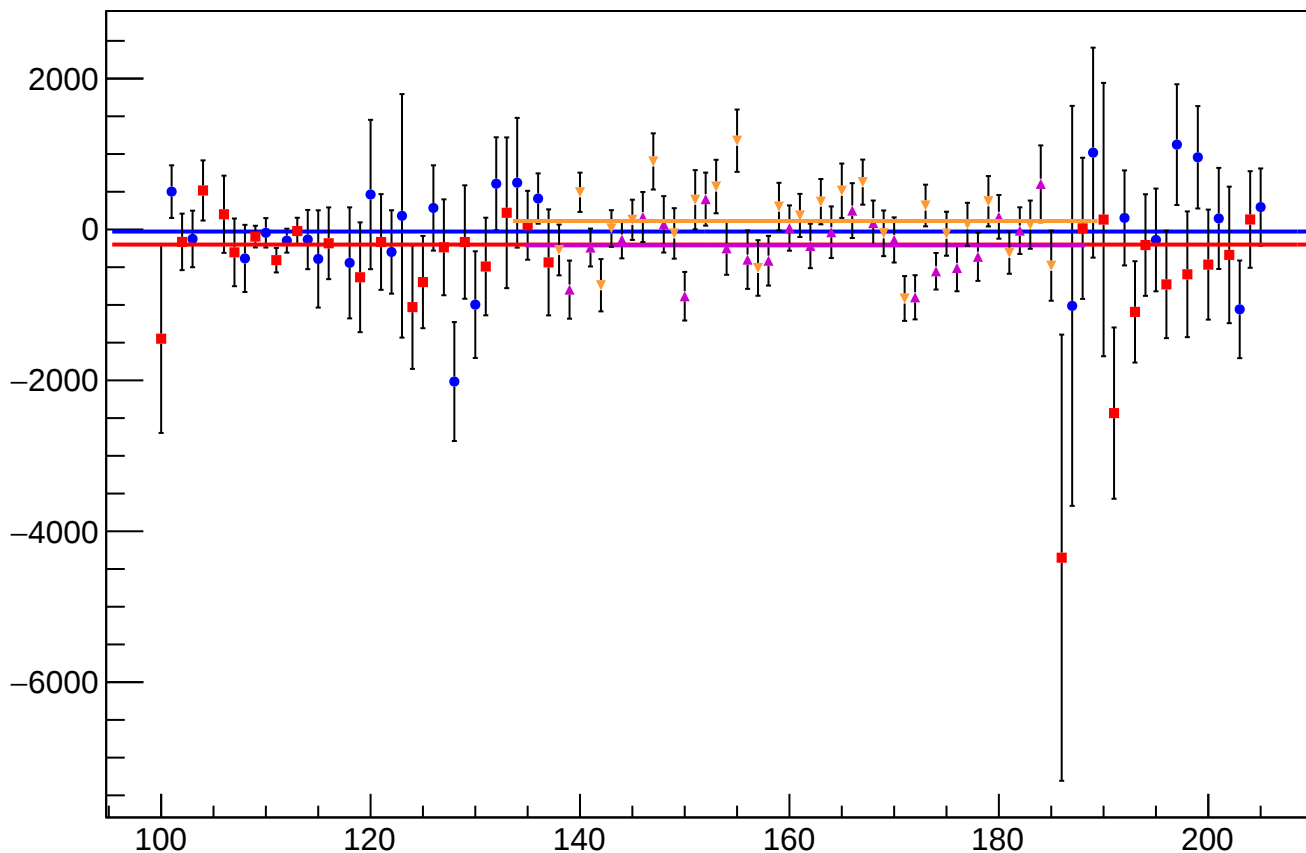
Right: 394.358+/-0.064 χ^2/NDF : 16287282.1/55

In: 340.312+/-0.047 χ^2/NDF : 8592031.3/48

Out: 331.708+/-0.045 χ^2/NDF : 10826247.3/54

All: 335.817+/-0.033 χ^2/NDF : 19435635.1/100

asym_sam8_mean vs Slug, Sign Corrected



Right In: -27.294 ± 84.795 χ^2/NDF : 24.7/25

Left Out: 112.242 ± 62.643 χ^2/NDF : 49.1/24

Right Out: -199.844 ± 73.617 χ^2/NDF : 19.9/29

Left In: -210.453 ± 65.510 χ^2/NDF : 29.2/22

Left: -41.890 ± 45.275 χ^2/NDF : 91.0/47

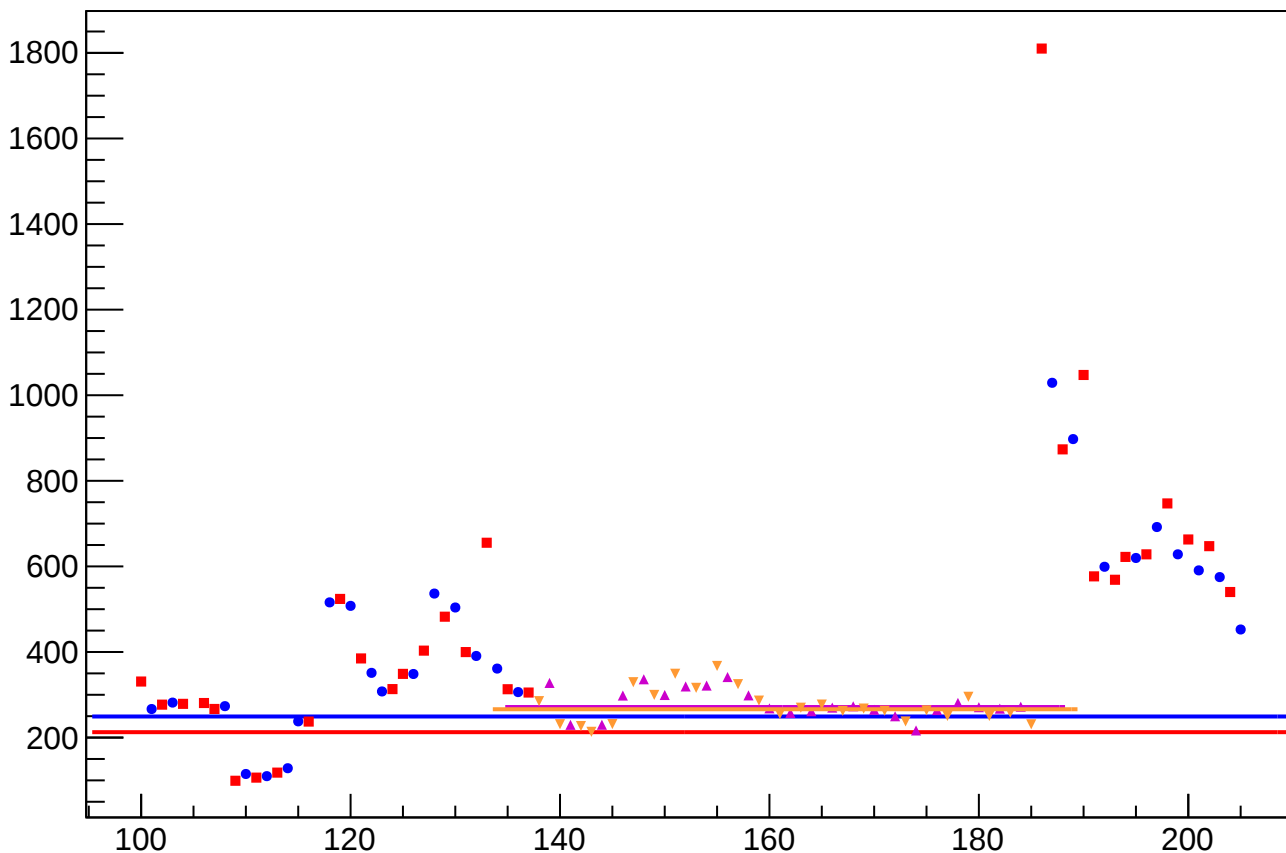
Right: -125.685 ± 55.590 χ^2/NDF : 46.9/55

In: -141.993 ± 51.841 χ^2/NDF : 56.8/48

Out: -18.829 ± 47.708 χ^2/NDF : 79.4/54

All: -75.307 ± 35.105 χ^2/NDF : 139.2/103

asym_sam8_rms vs Slug, Sign Corrected



Right In: 249.276+/-0.060 χ^2/NDF : 8359981.0/25

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 212.627+/-0.052 χ^2/NDF : 11419969.6/29

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

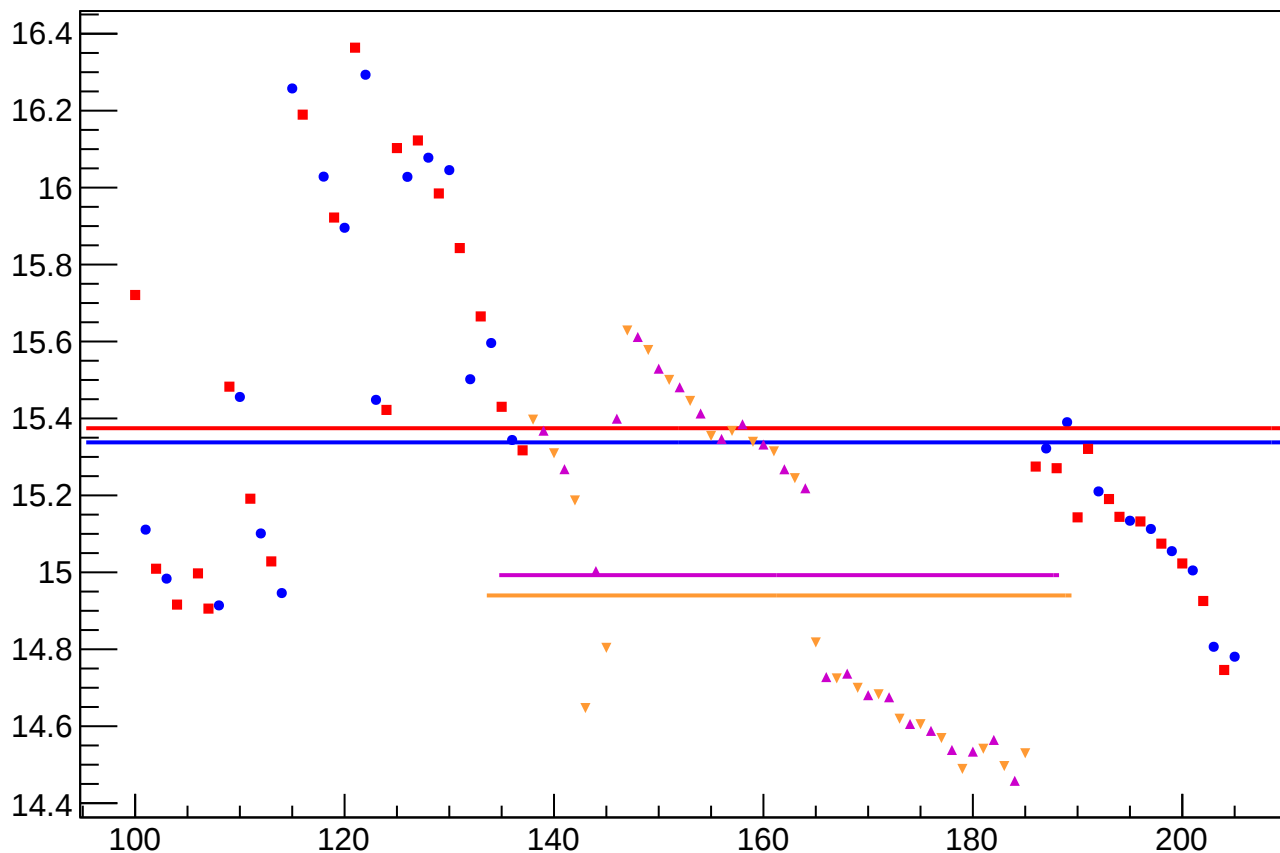
Right: 228.378+/-0.039 χ^2/NDF : 19992978.3/55

In: 263.140+/-0.037 χ^2/NDF : 8967234.1/48

Out: 243.705+/-0.034 χ^2/NDF : 12684089.9/54

All: 252.617+/-0.025 χ^2/NDF : 21803526.4/100

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.338 +/- 0.000 χ^2/NDF : 12623923749.2/25

Left Out: 14.940 +/- 0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.375 +/- 0.000 χ^2/NDF : 11736482117.4/29

Left In: 14.993 +/- 0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965 +/- 0.000 χ^2/NDF : 46444749587.5/47

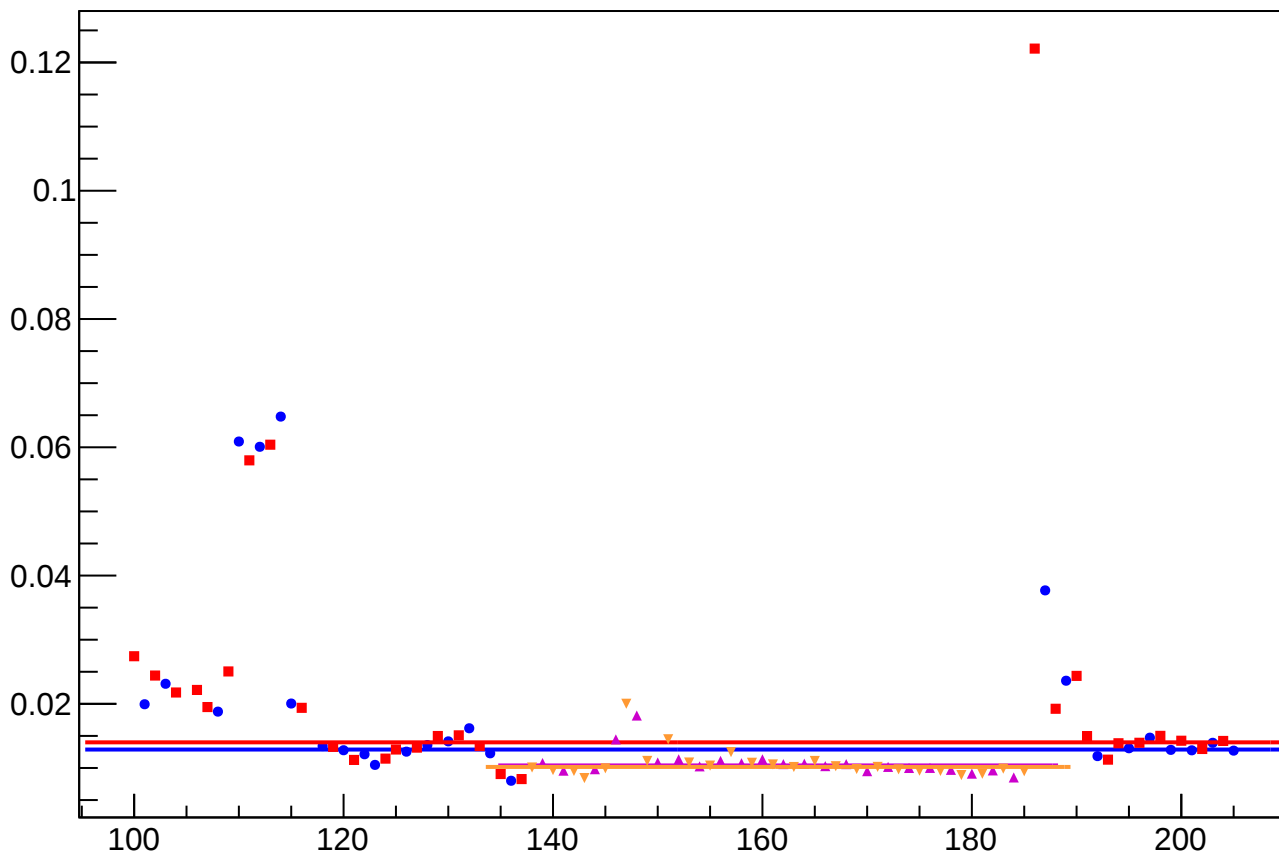
Right: 15.355 +/- 0.000 χ^2/NDF : 24403521969.2/55

In: 15.098 +/- 0.000 χ^2/NDF : 40183667054.0/48

Out: 15.056 +/- 0.000 χ^2/NDF : 44352400850.8/54

All: 15.076 +/- 0.000 χ^2/NDF : 84737551555.5

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2493490.1/25

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2987929.1/29

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

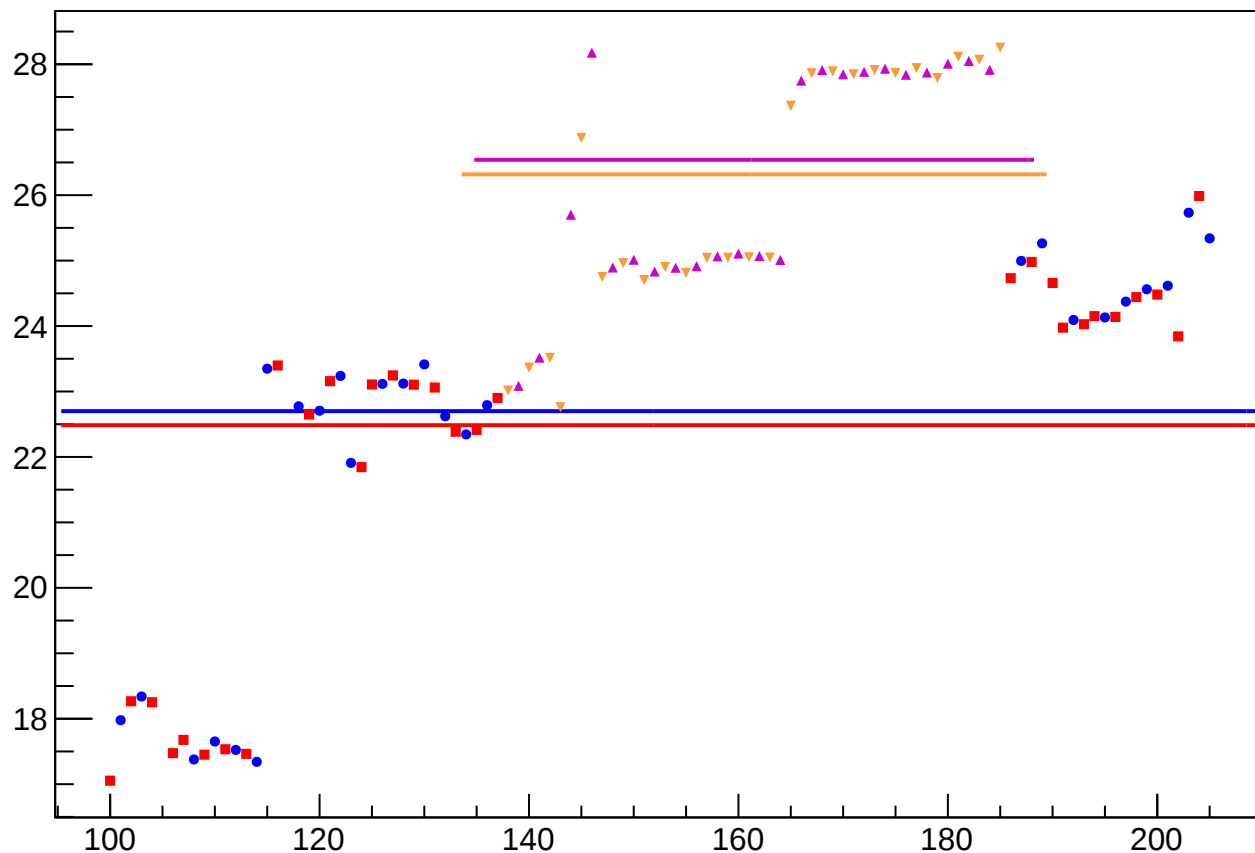
Right: 0.013+/-0.000 χ^2/NDF : 5561706.4/55

In: 0.011+/-0.000 χ^2/NDF : 3608416.9/48

Out: 0.011+/-0.000 χ^2/NDF : 5015049.6/54

All: 0.011+/-0.000 χ^2/NDF : 8623669.1/103

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.699+/-0.000

χ^2/NDF : 1281506029.5/25

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Right: 22.597+/-0.000

χ^2/NDF : 2750446190.5/55

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

In: 25.686+/-0.000

χ^2/NDF : 8840803765.6/48

Right Out: 22.485+/-0.000

χ^2/NDF : 1460806967.4/29

Out: 25.576+/-0.000

χ^2/NDF : 10184668898.3/54

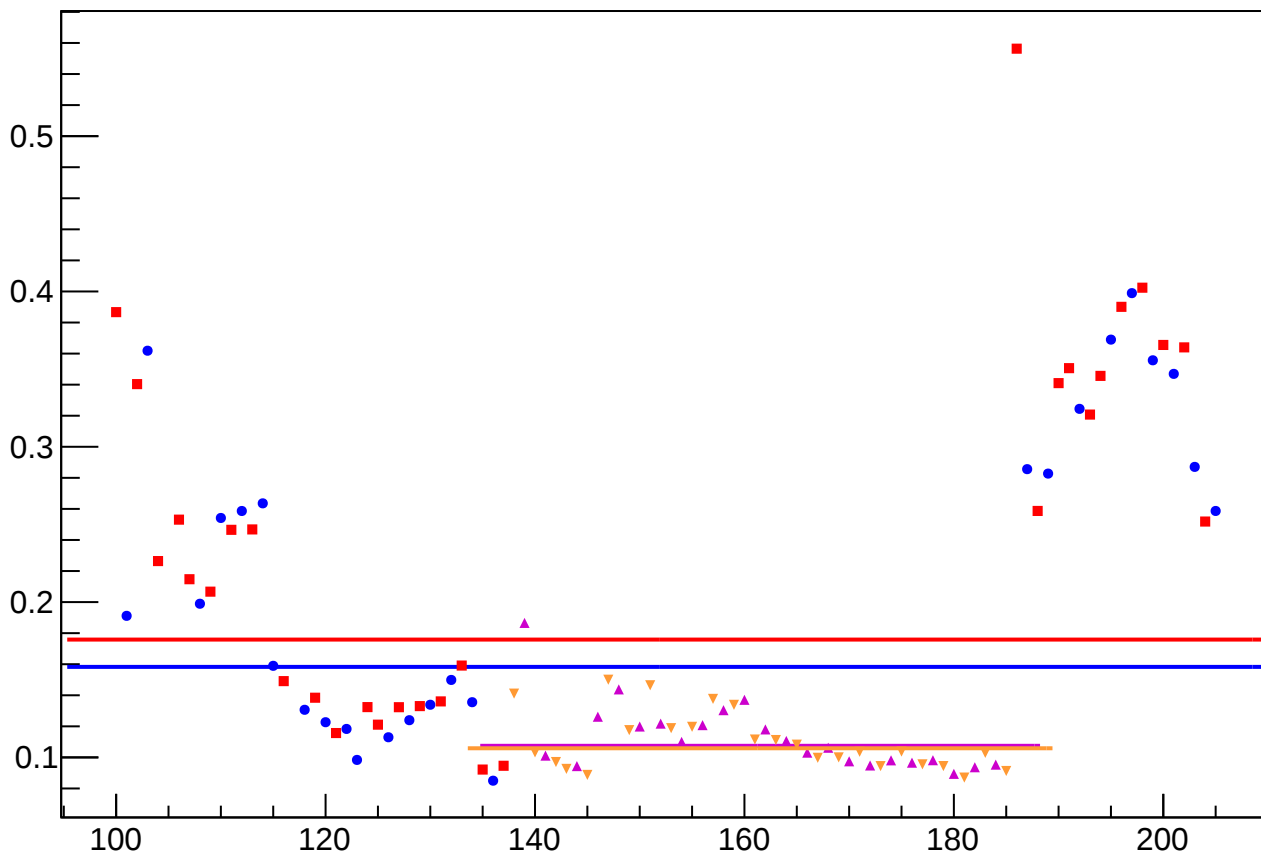
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.630+/-0.000

χ^2/NDF : 19035813951.1

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.158+/-0.000 χ^2/NDF : 5348582.8/25

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.176+/-0.000 χ^2/NDF : 5406110.9/29

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

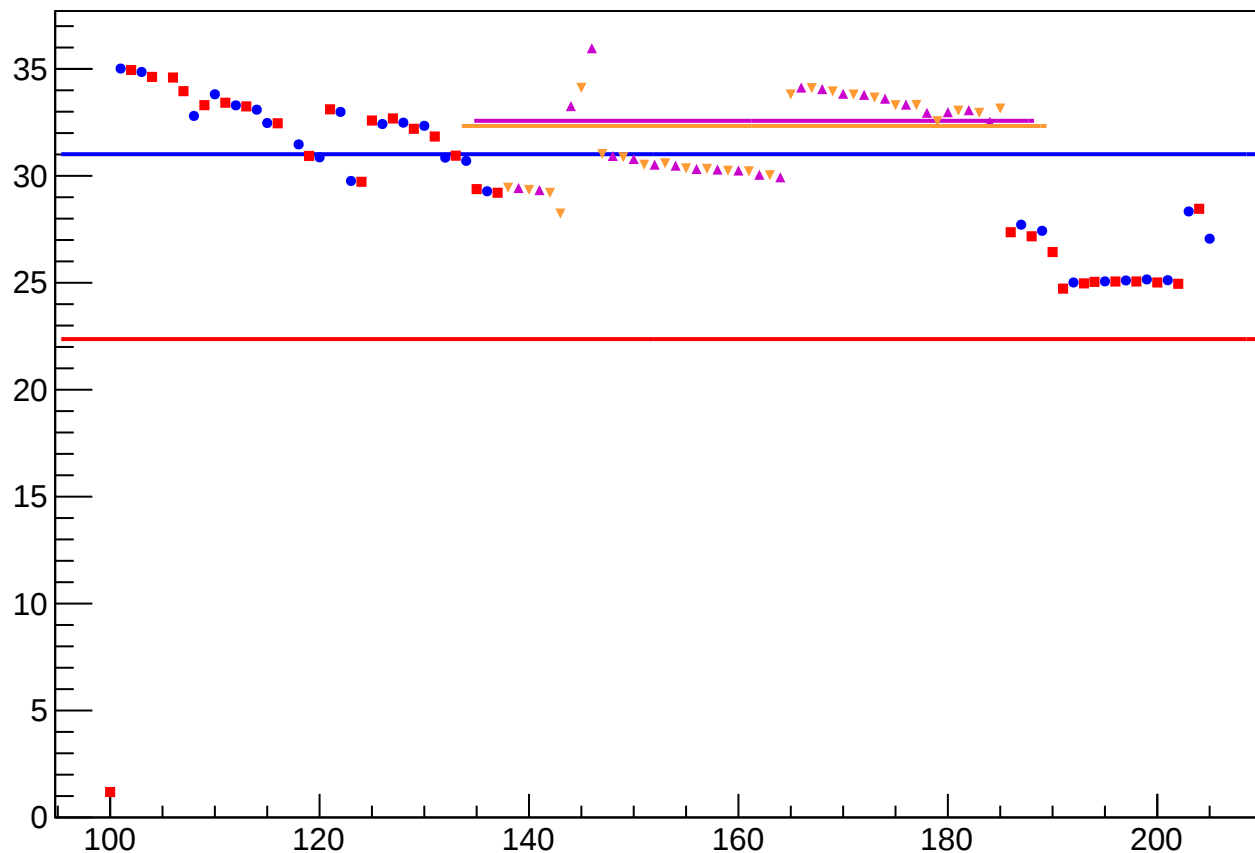
Right: 0.167+/-0.000 χ^2/NDF : 10864049.5/55

In: 0.119+/-0.000 χ^2/NDF : 7607586.5/48

Out: 0.119+/-0.000 χ^2/NDF : 8812262.3/54

All: 0.119+/-0.000 χ^2/NDF : 16420580.1/103

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.012 $\pm$ 0.000

χ^2 /NDF: 5462033424.1/25

Left: 32.450 $\pm$ 0.000 χ^2 /NDF: 24766521375.8/47

Right: 25.933 $\pm$ 0.000 χ^2 /NDF: 274801073319.5/55

Left Out: 32.331 $\pm$ 0.000

χ^2 /NDF: 12850475096.2/24

In: 32.296 $\pm$ 0.000 χ^2 /NDF: 18964146285.8/48

Right Out: 22.367 $\pm$ 0.000

χ^2 /NDF: 232003625199.4/29

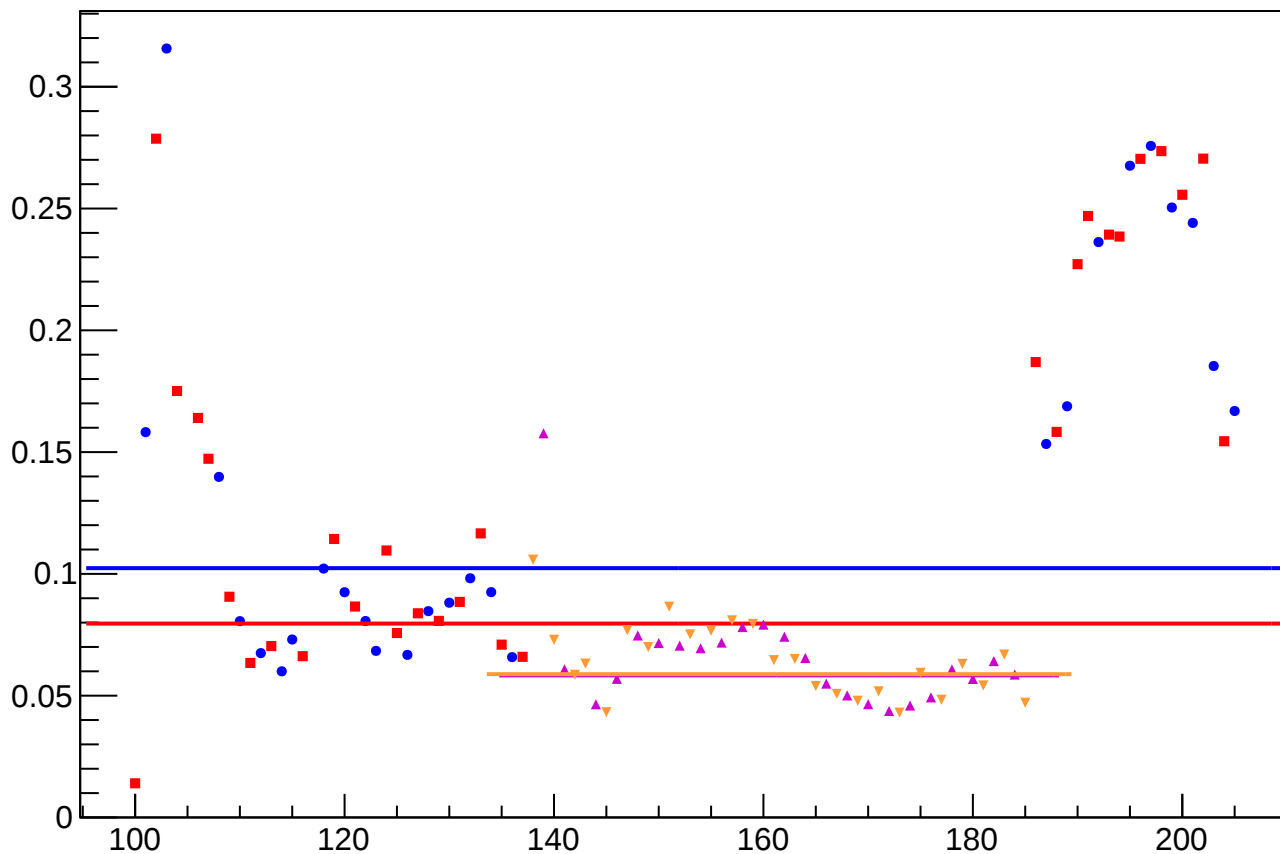
Out: 30.057 $\pm$ 0.000 χ^2 /NDF: 337654818017.8/54

Left In: 32.574 $\pm$ 0.000

χ^2 /NDF: 11797772603.7/22

All: 31.117 $\pm$ 0.000 χ^2 /NDF: 369206349675.0

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.102 $\pm$ 0.000 χ^2 /NDF: 5300541.6/25

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.080 $\pm$ 0.000 χ^2 /NDF: 10011220.1/29

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

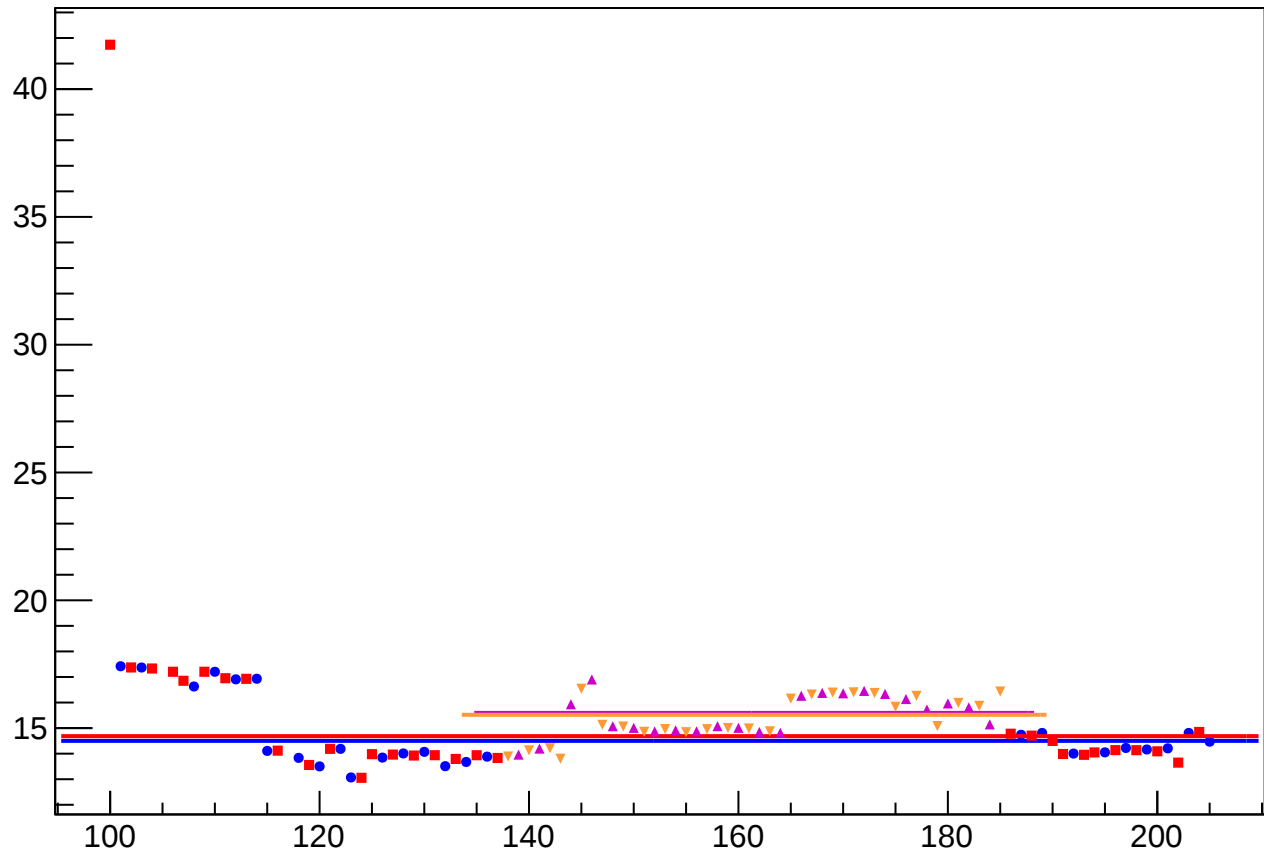
Right: 0.089 $\pm$ 0.000 χ^2 /NDF: 15829086.2/55

In: 0.066 $\pm$ 0.000 χ^2 /NDF:9536196.3/48

Out: 0.064 $\pm$ 0.000 χ^2 /NDF:12220356.5/54

All: 0.065 $\pm$ 0.000 χ^2 /NDF: 21790423.1/103

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.501+/-0.000 χ^2/NDF : 1502317456.4/25

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.686+/-0.000 χ^2/NDF : 1954088979.2/29

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

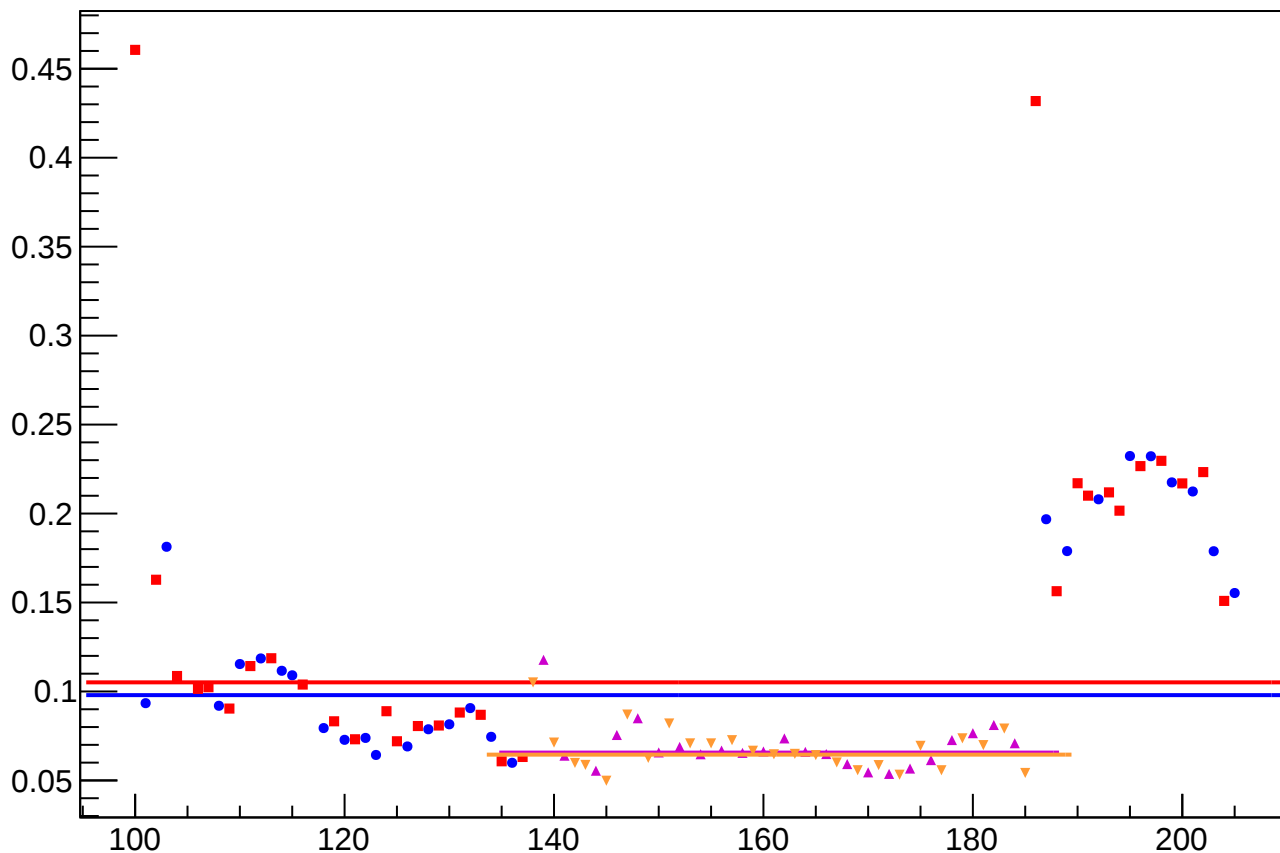
Right: 14.591+/-0.000 χ^2/NDF : 3473403031.5/55

In: 15.346+/-0.000 χ^2/NDF : 4349837902.9/48

Out: 15.349+/-0.000 χ^2/NDF : 5085174866.4/54

All: 15.347+/-0.000 χ^2/NDF : 9435031914.2/100

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.098 $\pm$ 0.000 χ^2 /NDF: 4557713.4/25

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.105 $\pm$ 0.000 χ^2 /NDF: 4738529.0/29

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

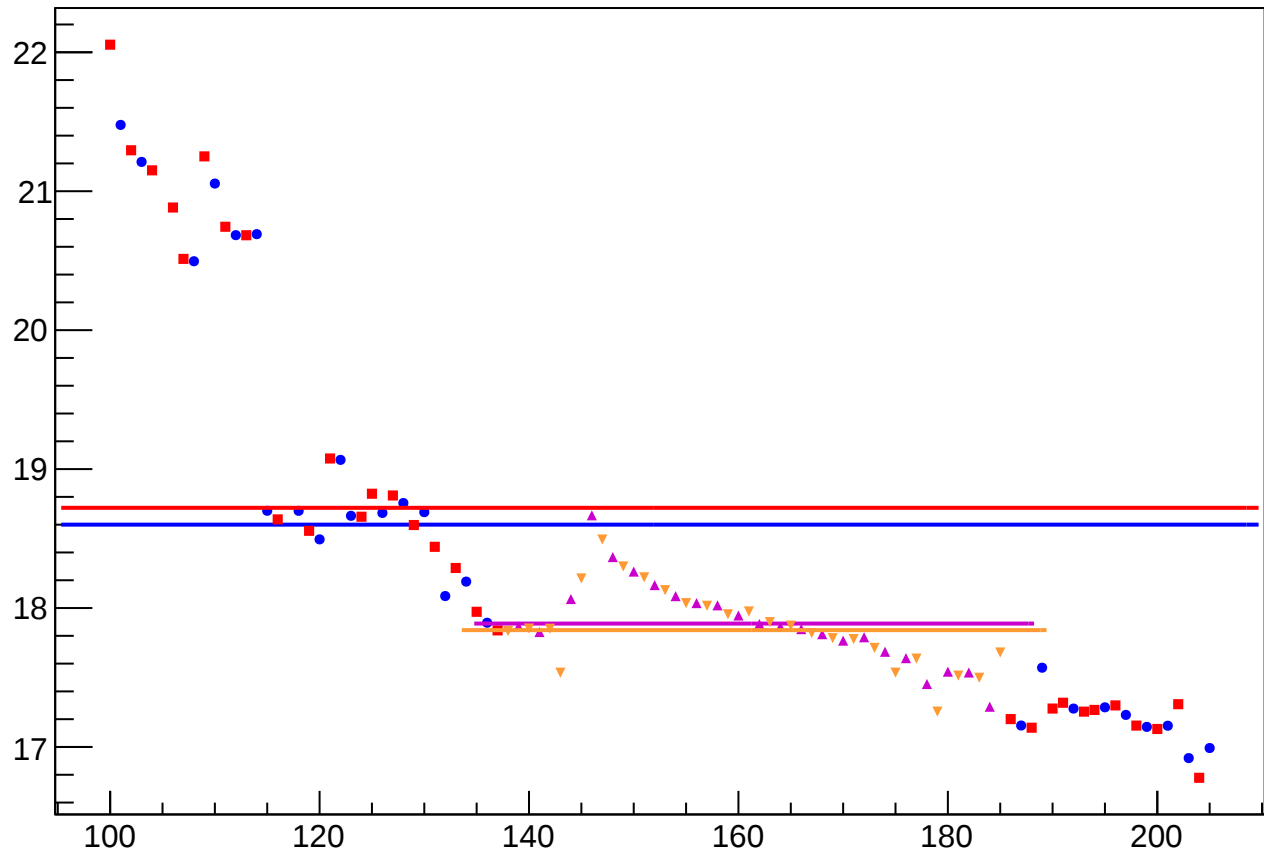
Right: 0.101 $\pm$ 0.000 χ^2 /NDF: 9347490.9/55

In: 0.073 $\pm$ 0.000 χ^2 /NDF: 6906388.7/48

Out: 0.073 $\pm$ 0.000 χ^2 /NDF: 8052294.8/54

All: 0.073 $\pm$ 0.000 χ^2 /NDF: 14958765.3/103

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.600+/-0.000 χ^2/NDF : 28999208473.6/25

Left Out: 17.841+/-0.000 χ^2/NDF : 1283287989.7/24

Right Out: 18.721+/-0.000 χ^2/NDF : 30996643107.8/29

Left In: 17.888+/-0.000 χ^2/NDF : 1203002311.3/22

Left: 17.864+/-0.000 χ^2/NDF : 2506375288.6/47

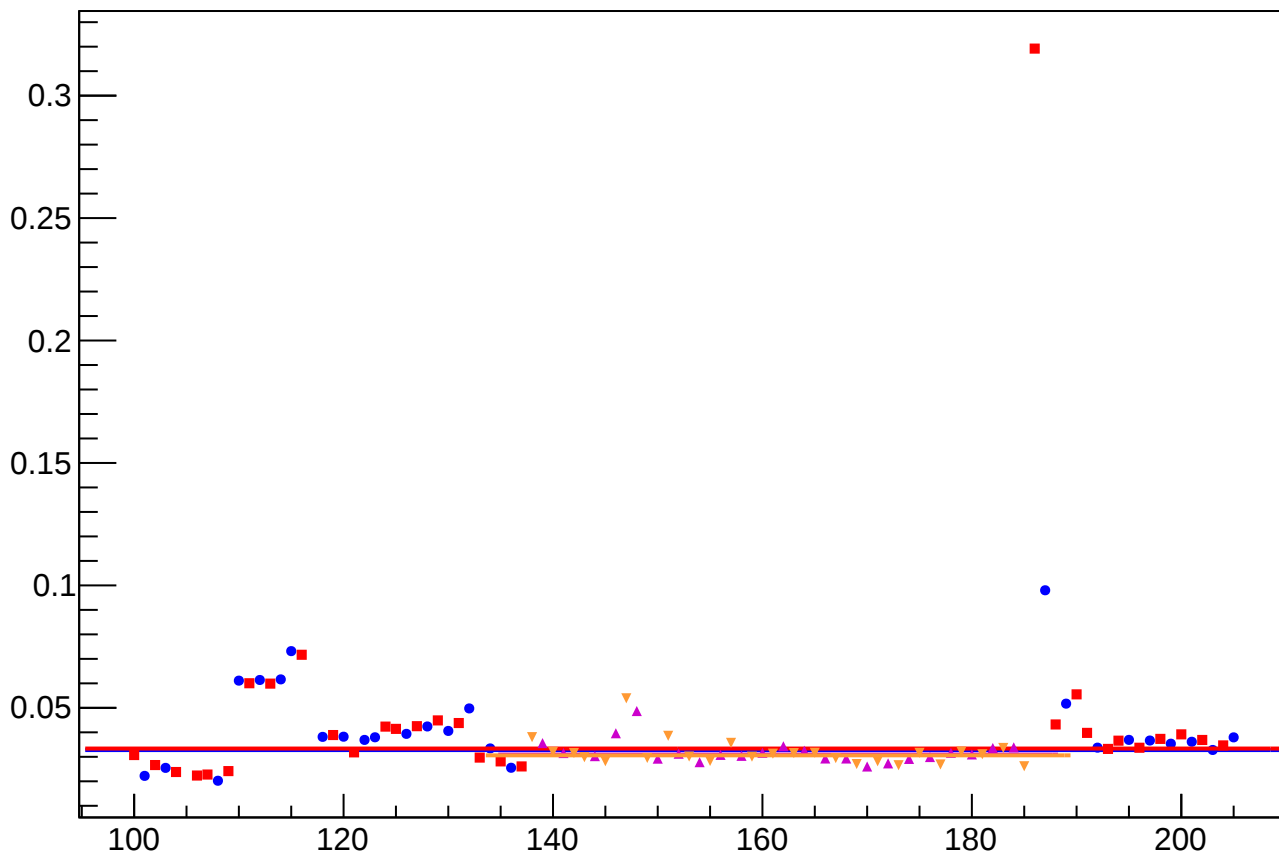
Right: 18.662+/-0.000 χ^2/NDF : 60075266365.4/55

In: 18.159+/-0.000 χ^2/NDF : 33548904515.3/48

Out: 18.167+/-0.000 χ^2/NDF : 37635144823.5/54

All: 18.163+/-0.000 χ^2/NDF : 71185056983.3

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000 χ^2/NDF : 1720809.8/25

Left Out: 0.031+/-0.000 χ^2/NDF : 590475.6/24

Right Out: 0.033+/-0.000 χ^2/NDF : 2133277.1/29

Left In: 0.031+/-0.000 χ^2/NDF : 453524.6/22

Left: 0.031+/-0.000 χ^2/NDF : 1045553.8/47

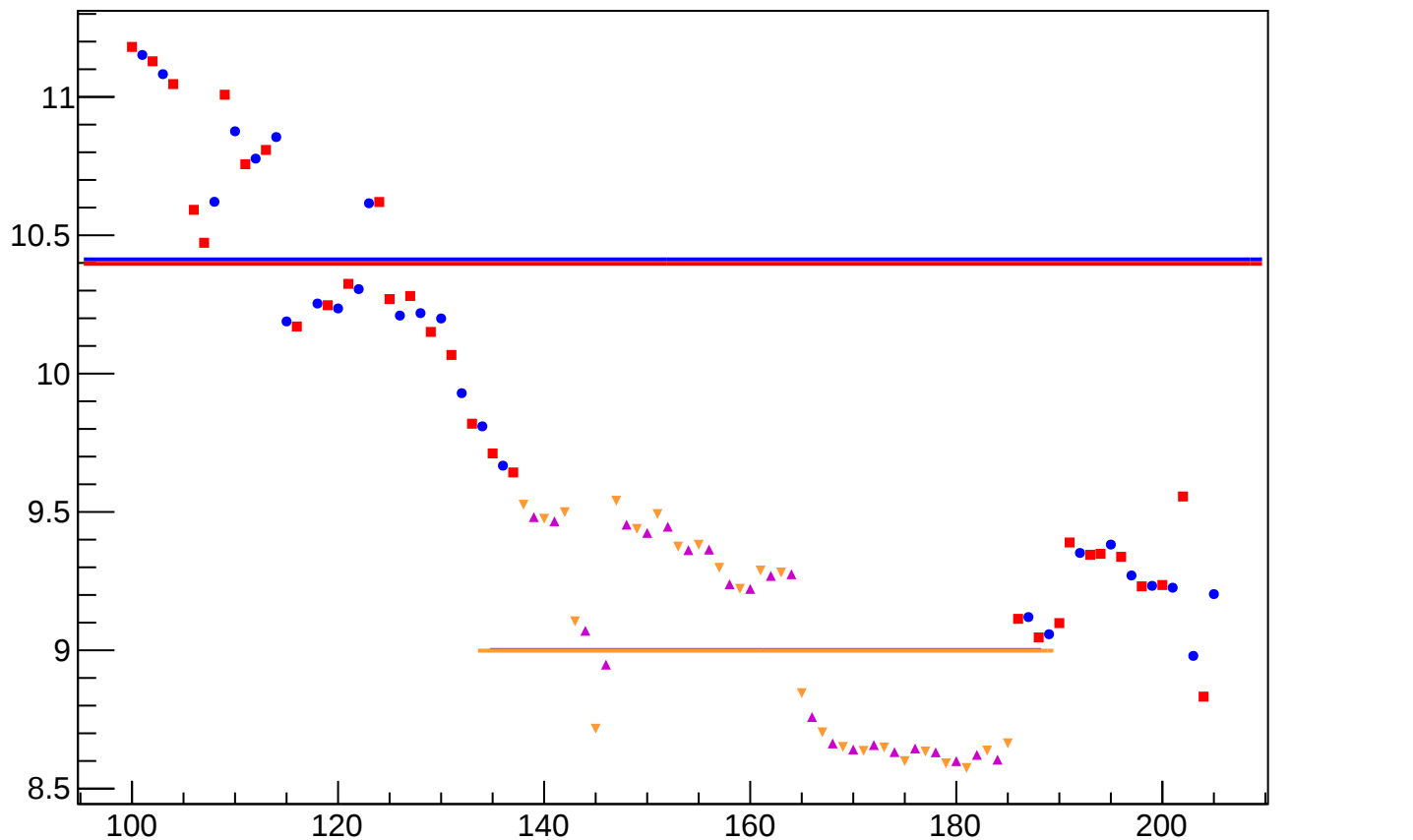
Right: 0.033+/-0.000 χ^2/NDF : 3858306.1/55

In: 0.032+/-0.000 χ^2/NDF : 2219740.9/48

Out: 0.032+/-0.000 χ^2/NDF : 2829998.9/54

All: 0.032+/-0.000 χ^2/NDF : 5049763.7/103

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.413+/-0.000 χ^2/NDF : 13554882853.1/25

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.397+/-0.000 χ^2/NDF : 12178726060.7/29

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

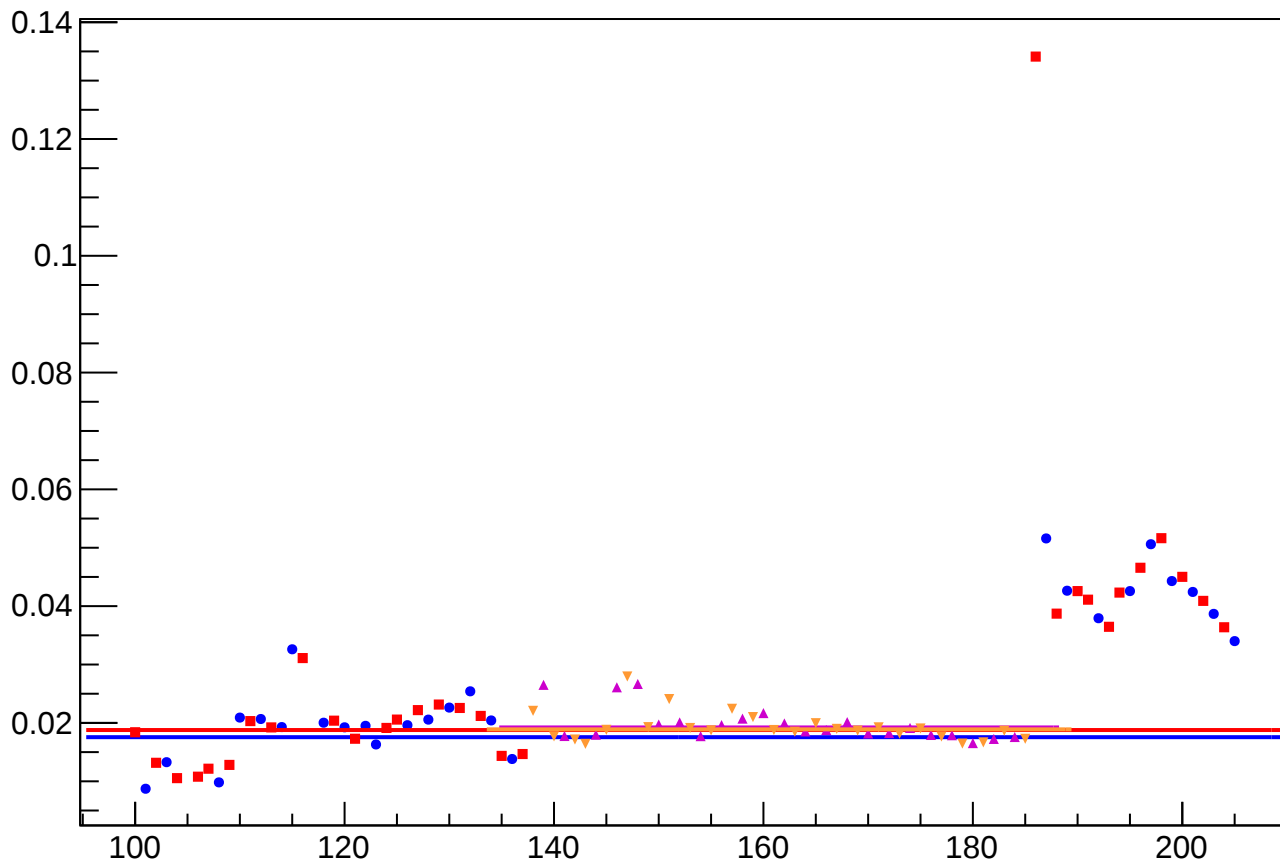
Right: 10.405+/-0.000 χ^2/NDF : 25737371661.4/55

In: 9.580+/-0.000 χ^2/NDF : 53819800016.2/48

Out: 9.533+/-0.000 χ^2/NDF : 53669741681.0/54

All: 9.556+/-0.000 χ^2/NDF : 107569952313.5

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2 /NDF: 6045472.7/25

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:428169.5/24

Right Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 6194271.6/29

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:481824.0/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 914799.6/47

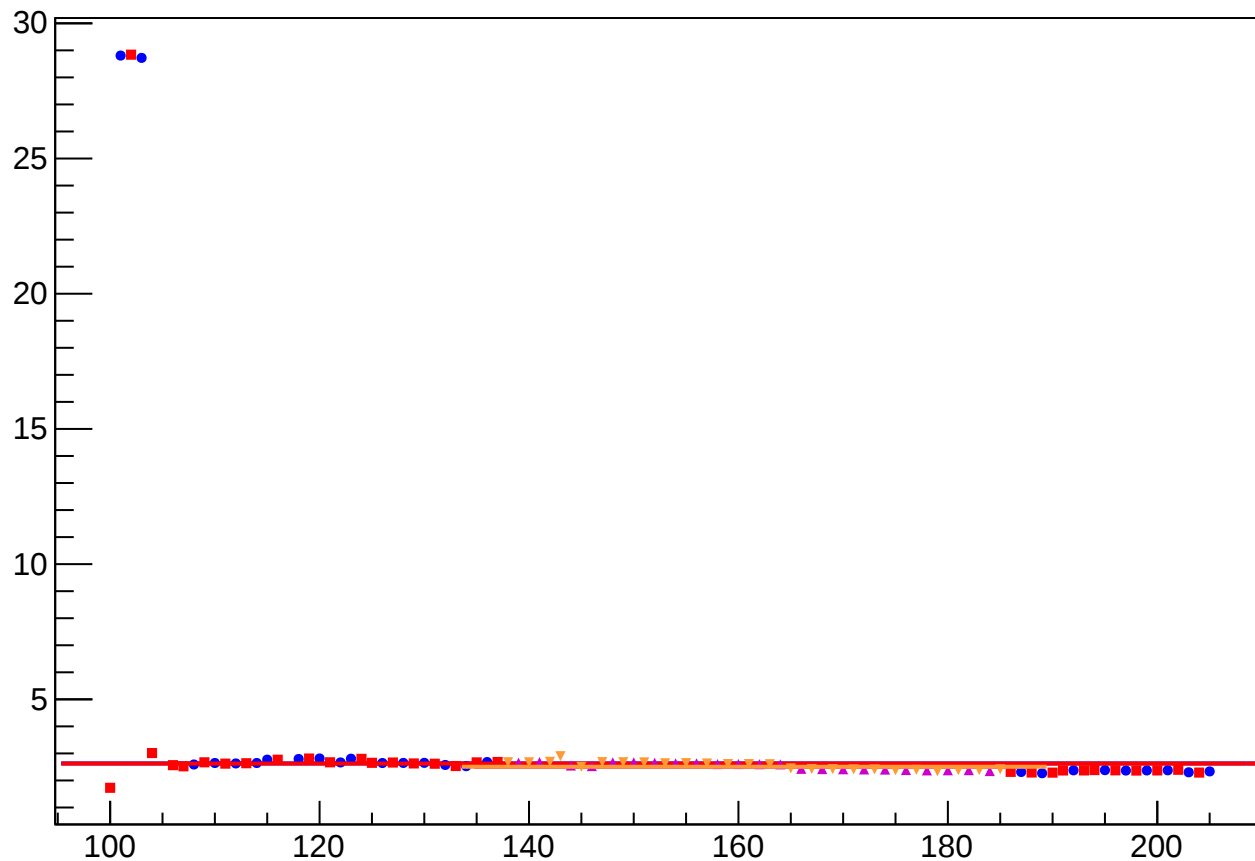
Right: 0.018 $\pm$ 0.000 χ^2 /NDF: 12283721.6/55

In: 0.019 $\pm$ 0.000 χ^2 /NDF:6624797.2/48

Out: 0.019 $\pm$ 0.000 χ^2 /NDF:6622926.6/54

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 13254909.8/103

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.631+/-0.000

χ^2/NDF : 177709374510.9/25

Left: 2.506+/-0.000 χ^2/NDF : 107174595641.7/47

Right: 2.628+/-0.000 χ^2/NDF : 265001584073.3/55

Left Out: 2.507+/-0.000

χ^2/NDF : 64277969186.7/24

In: 2.544+/-0.000 χ^2/NDF : 236810927355.0/48

Right Out: 2.625+/-0.000

χ^2/NDF : 87264375749.6/29

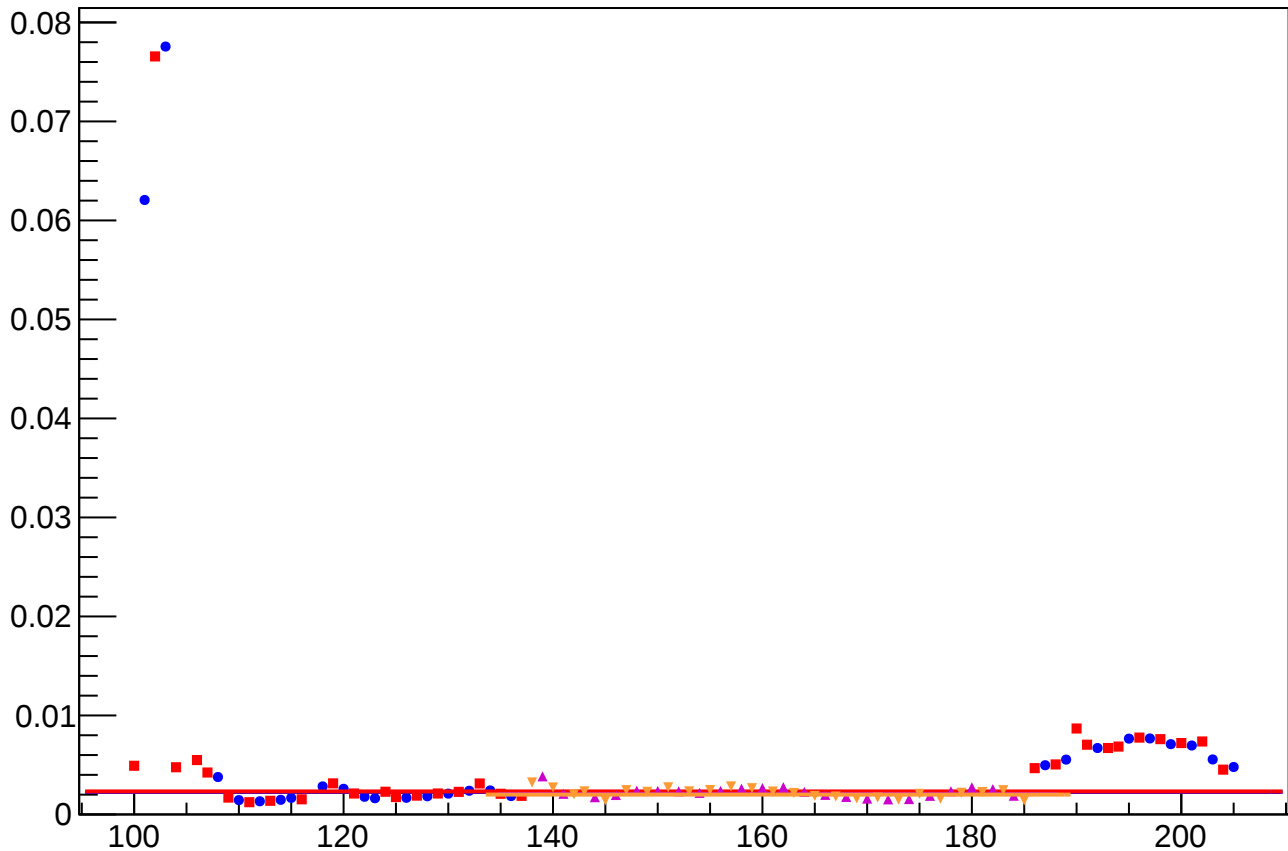
Out: 2.542+/-0.000 χ^2/NDF : 166944008901.8/54

Left In: 2.505+/-0.000

χ^2/NDF : 42893630742.5/22

All: 2.543+/-0.000 χ^2/NDF : 403766218551.3

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 8311694.0/25

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 8623453.7/29

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

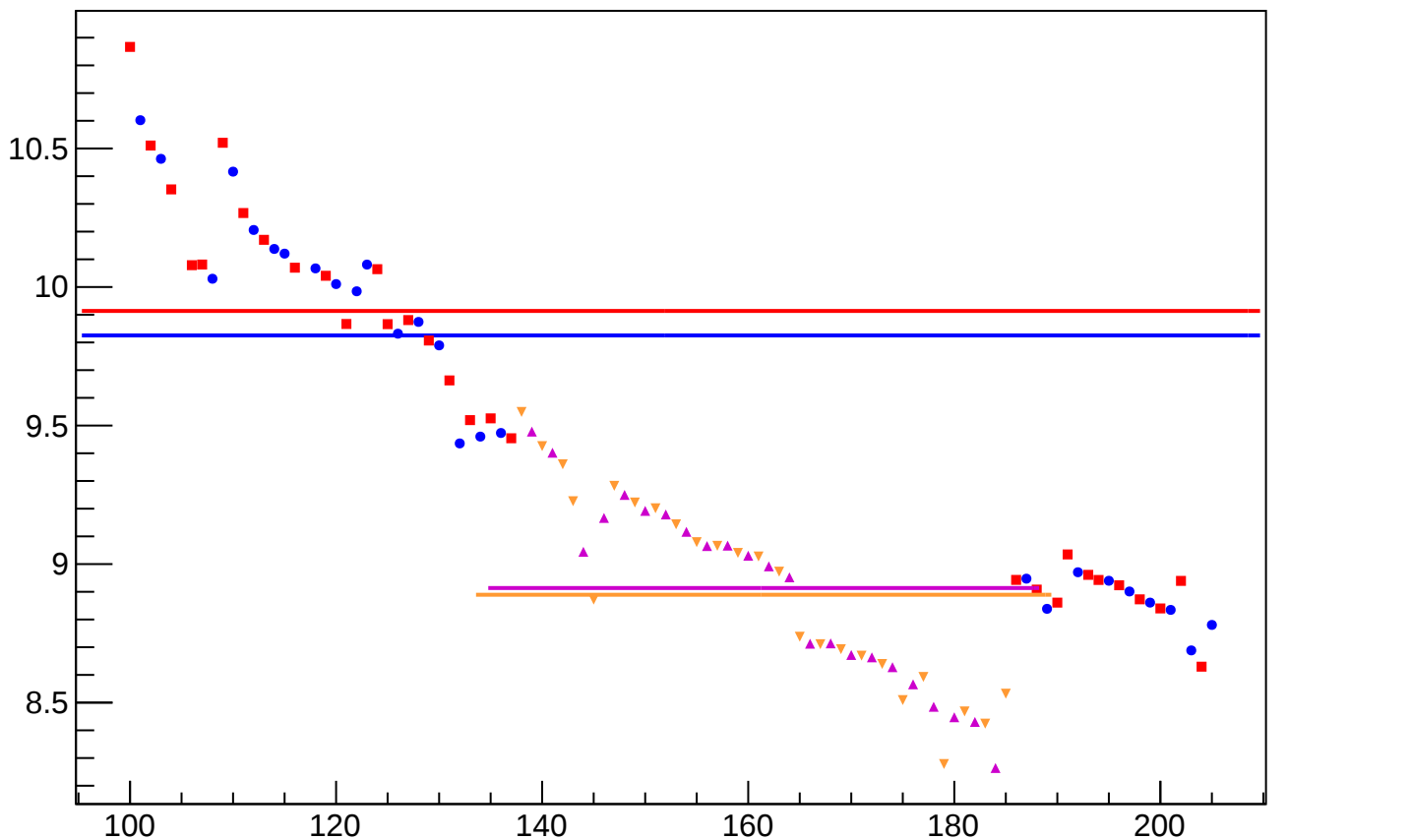
Right: 0.002+/-0.000 χ^2/NDF : 16939715.6/55

In: 0.002+/-0.000 χ^2/NDF :9705659.1/48

Out: 0.002+/-0.000 χ^2/NDF :10314229.3/54

All: 0.002+/-0.000 χ^2/NDF : 20022360.2/103

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.825+/-0.000 χ^2/NDF : 52957227936.3/25

Left Out: 8.889+/-0.000 χ^2/NDF : 34704694045.9/24

Right Out: 9.914+/-0.000 χ^2/NDF : 53749006760.5/29

Left In: 8.914+/-0.000 χ^2/NDF : 28497227562.7/22

Left: 8.901+/-0.000 χ^2/NDF : 63312247922.6/47

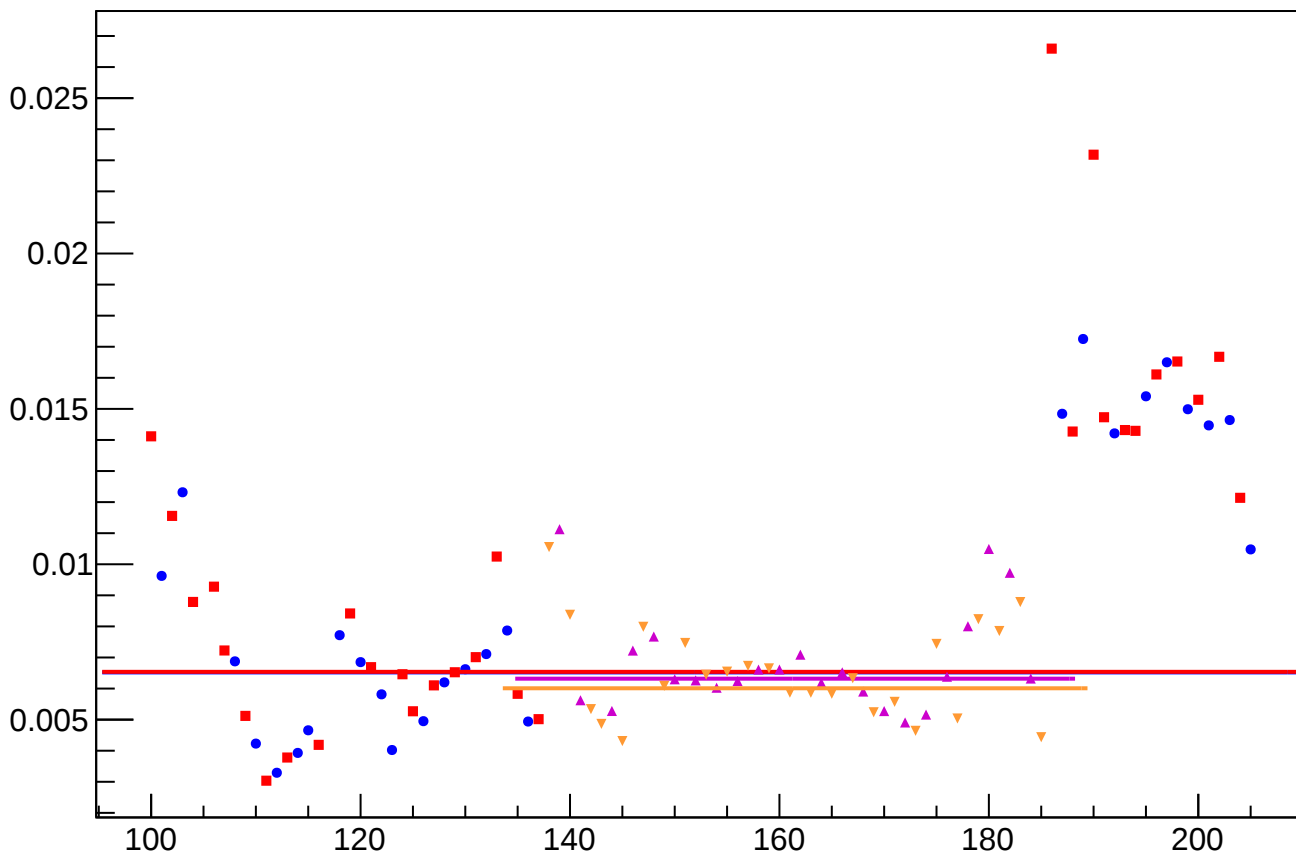
Right: 9.870+/-0.000 χ^2/NDF : 107551461078.2/55

In: 9.258+/-0.000 χ^2/NDF : 190771465439.1/48

Out: 9.253+/-0.000 χ^2/NDF : 238358519220.8/54

All: 9.255+/-0.000 χ^2/NDF : 429138131081.2

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 5500187.5/25

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1312525.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 6982878.2/29

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1087051.3/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2435218.5/47

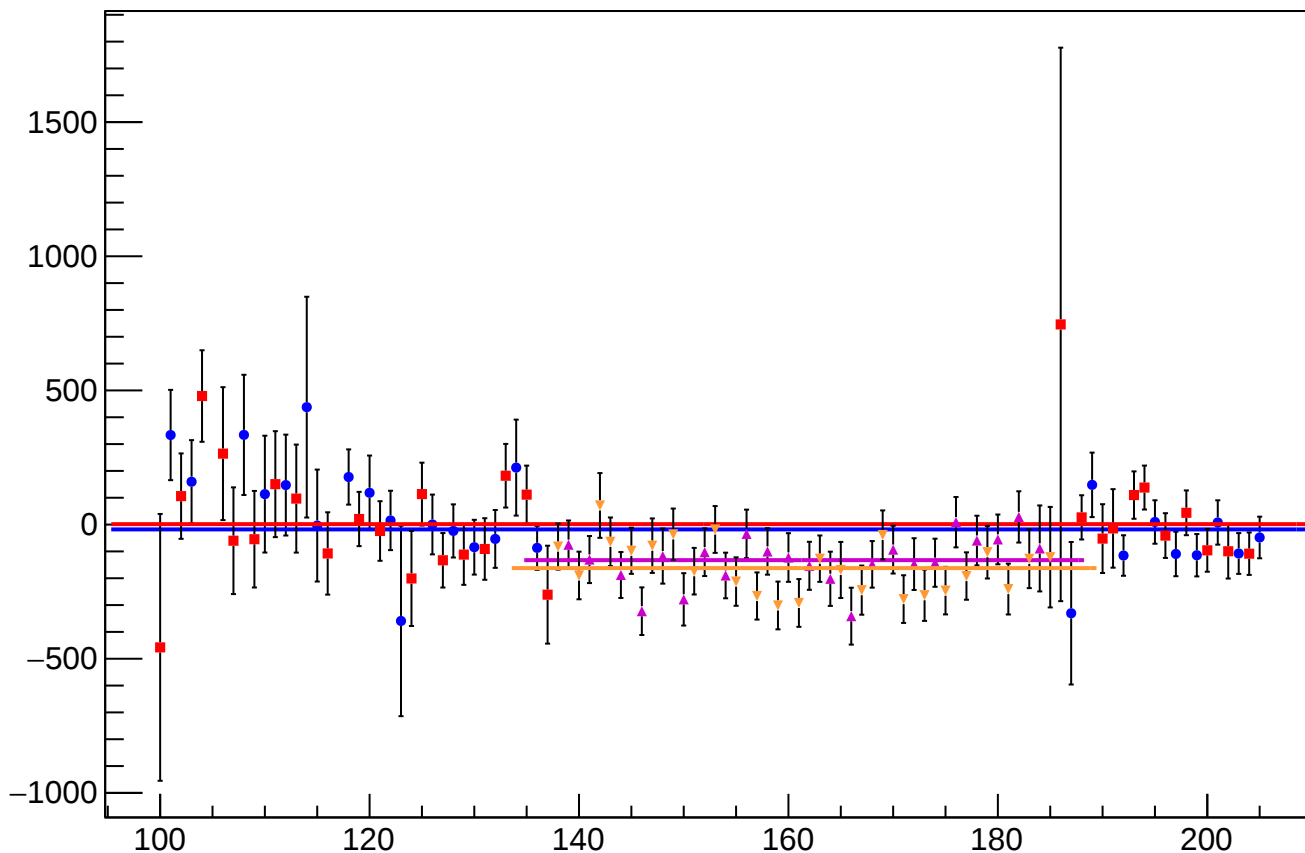
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 12483138.8/55

In: 0.006 $\pm$ 0.000 χ^2 /NDF:6597958.7/48

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:8375431.3/54

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 14996387.7/103

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -18.008 ± 21.521 $\chi^2/\text{NDF}: 28.4/25$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: 1.585 ± 21.322 $\chi^2/\text{NDF}: 32.9/29$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

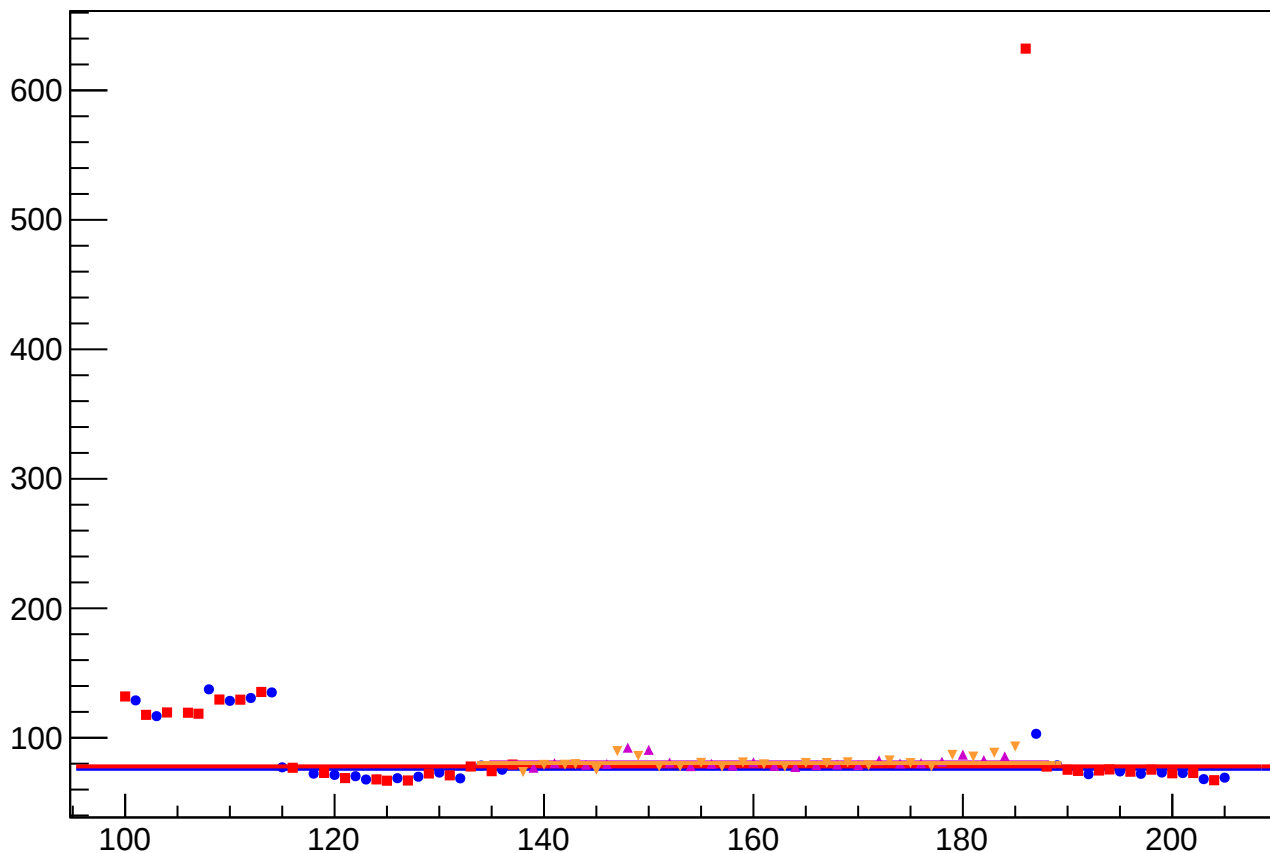
Right: -8.120 ± 15.147 $\chi^2/\text{NDF}: 61.8/55$

In: -81.194 ± 14.411 $\chi^2/\text{NDF}: 64.8/48$

Out: -90.776 ± 14.078 $\chi^2/\text{NDF}: 91.9/54$

All: -86.097 ± 10.070 $\chi^2/\text{NDF}: 156.9/103$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 76.060 $\pm$ 0.015 χ^2 /NDF: 927466.9/25

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24

Right Out: 77.911 $\pm$ 0.015 χ^2 /NDF: 1592589.2/29

Left In: 81.014 $\pm$ 0.014 χ^2 /NDF: 72250.2/22

Left: 80.727 $\pm$ 0.010 χ^2 /NDF: 163039.2/47

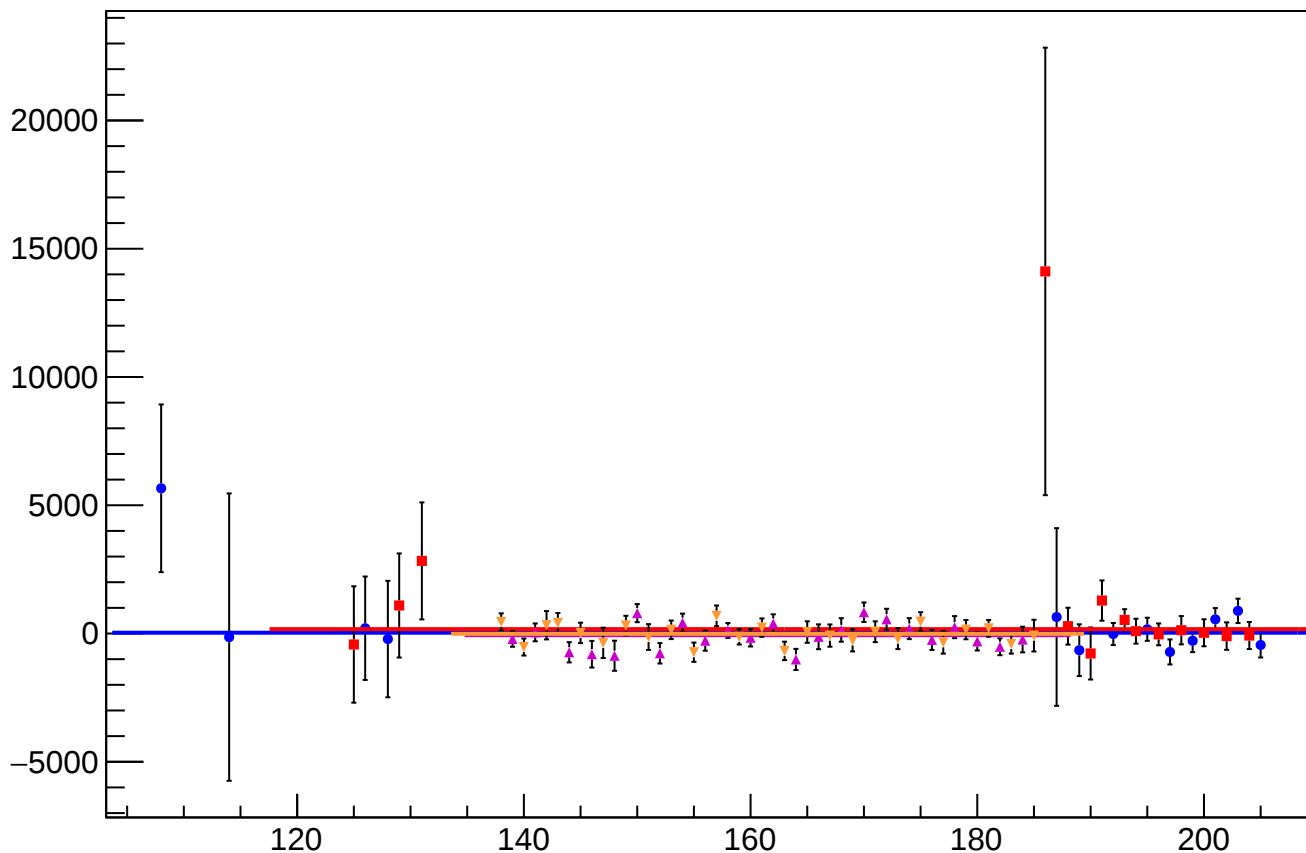
Right: 76.994 $\pm$ 0.011 χ^2 /NDF: 2527519.2/55

In: 78.793 $\pm$ 0.010 χ^2 /NDF: 1058172.6/48

Out: 79.348 $\pm$ 0.010 χ^2 /NDF: 1698643.9/54

All: 79.077 $\pm$ 0.007 χ^2 /NDF: 2758335.8/103

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: 31.823 ± 168.811 χ^2/NDF : 12.0/12

Left Out: -10.486 ± 78.391 χ^2/NDF : 22.5/24

Right Out: 171.160 ± 169.901 χ^2/NDF : 8.7/13

Left In: -64.591 ± 80.047 χ^2/NDF : 37.4/22

Left: -36.973 ± 56.007 χ^2/NDF : 60.2/47

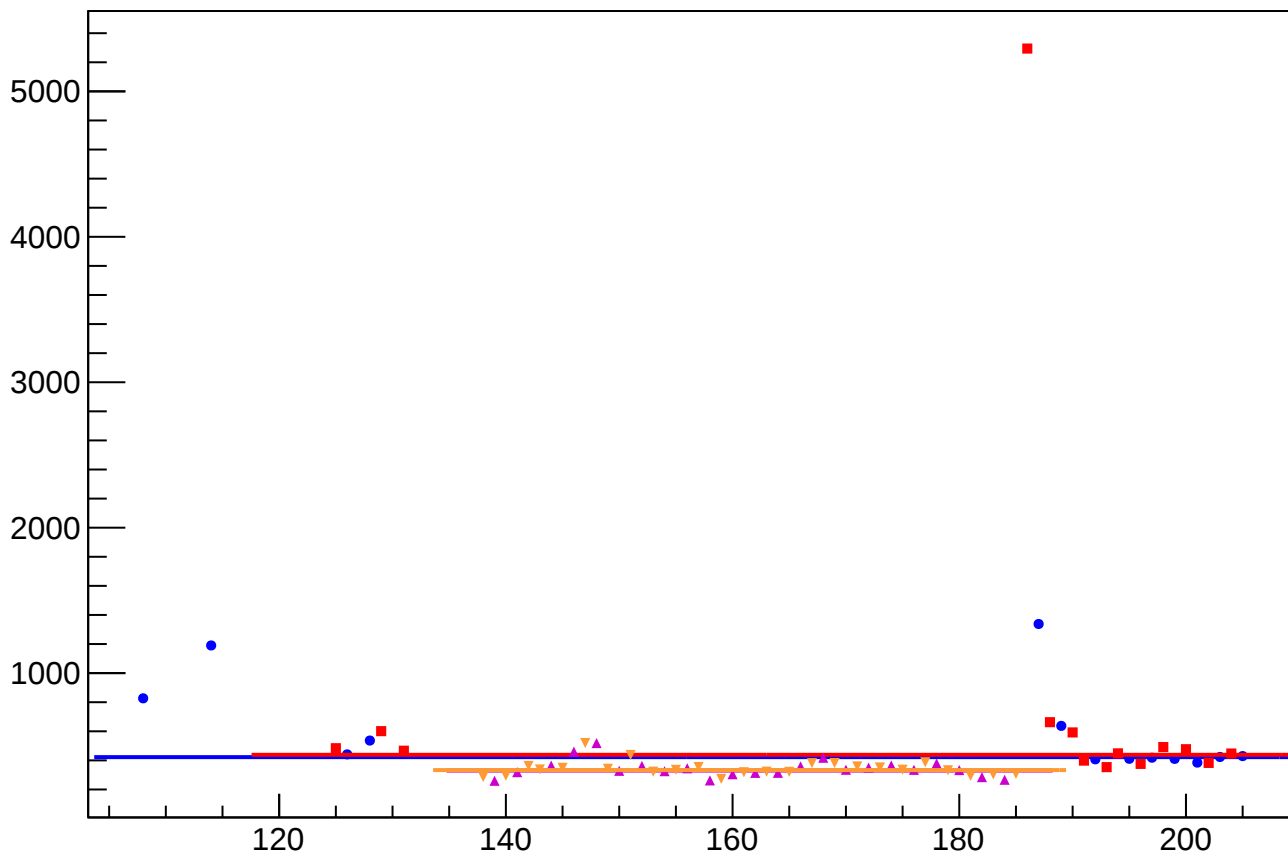
Right: 101.043 ± 119.751 χ^2/NDF : 21.0/26

In: -46.892 ± 72.327 χ^2/NDF : 49.7/35

Out: 21.396 ± 71.180 χ^2/NDF : 32.2/38

All: -12.202 ± 50.733 χ^2/NDF : 82.3/74

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 422.383+/-0.119 χ^2/NDF : 324640.7/12

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 438.405+/-0.120 χ^2/NDF : 1057277.7/13

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

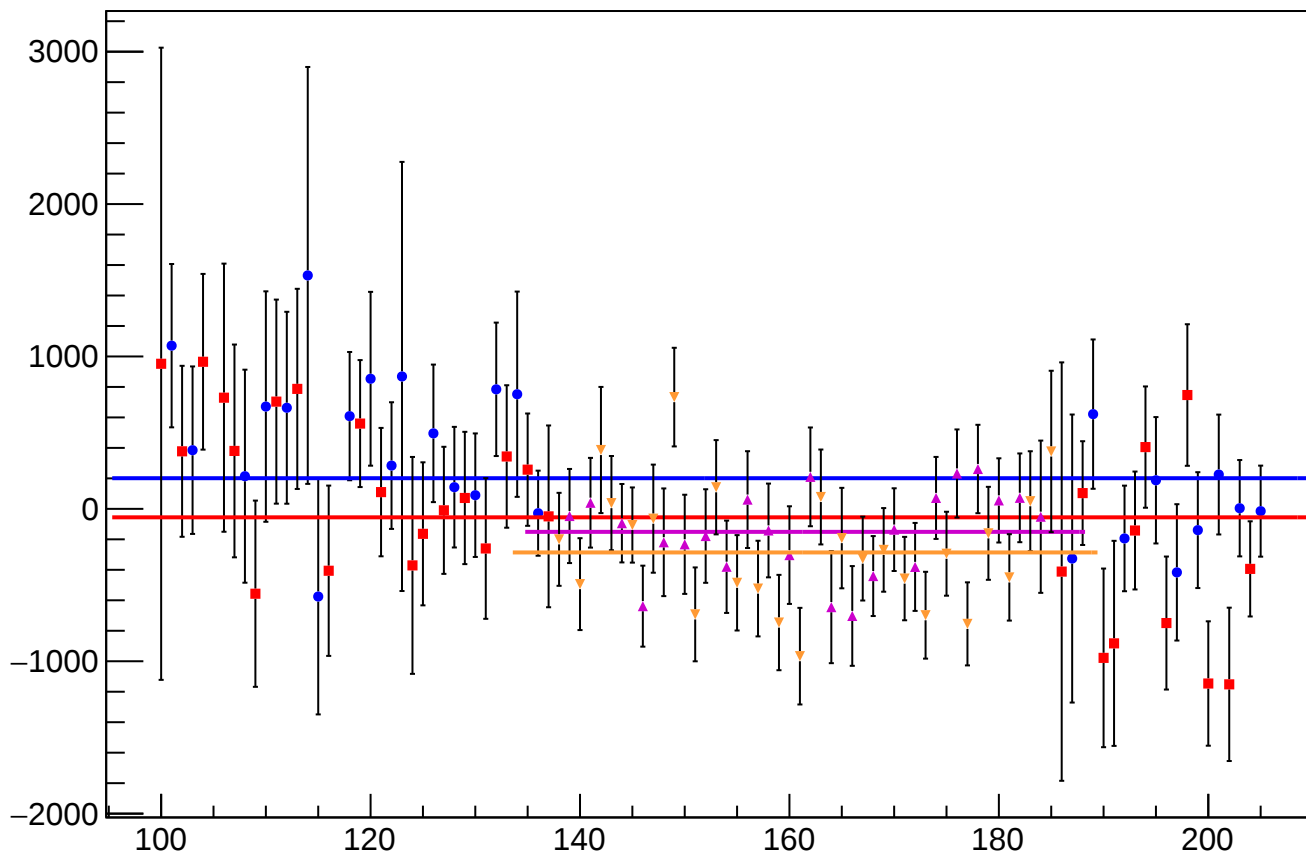
Right: 430.342+/-0.085 χ^2/NDF : 1390868.7/26

In: 346.947+/-0.051 χ^2/NDF : 1609786.6/35

Out: 351.693+/-0.050 χ^2/NDF : 2281257.1/38

All: 349.358+/-0.036 χ^2/NDF : 3895418.1/74

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 201.130 $\pm$ 88.734 χ^2 /NDF: 17.8/25

Left Out: -286.030 $\pm$ 61.095 χ^2 /NDF:36.6/24

Right Out: -55.609 $\pm$ 89.094 χ^2 /NDF: 37.7/29

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

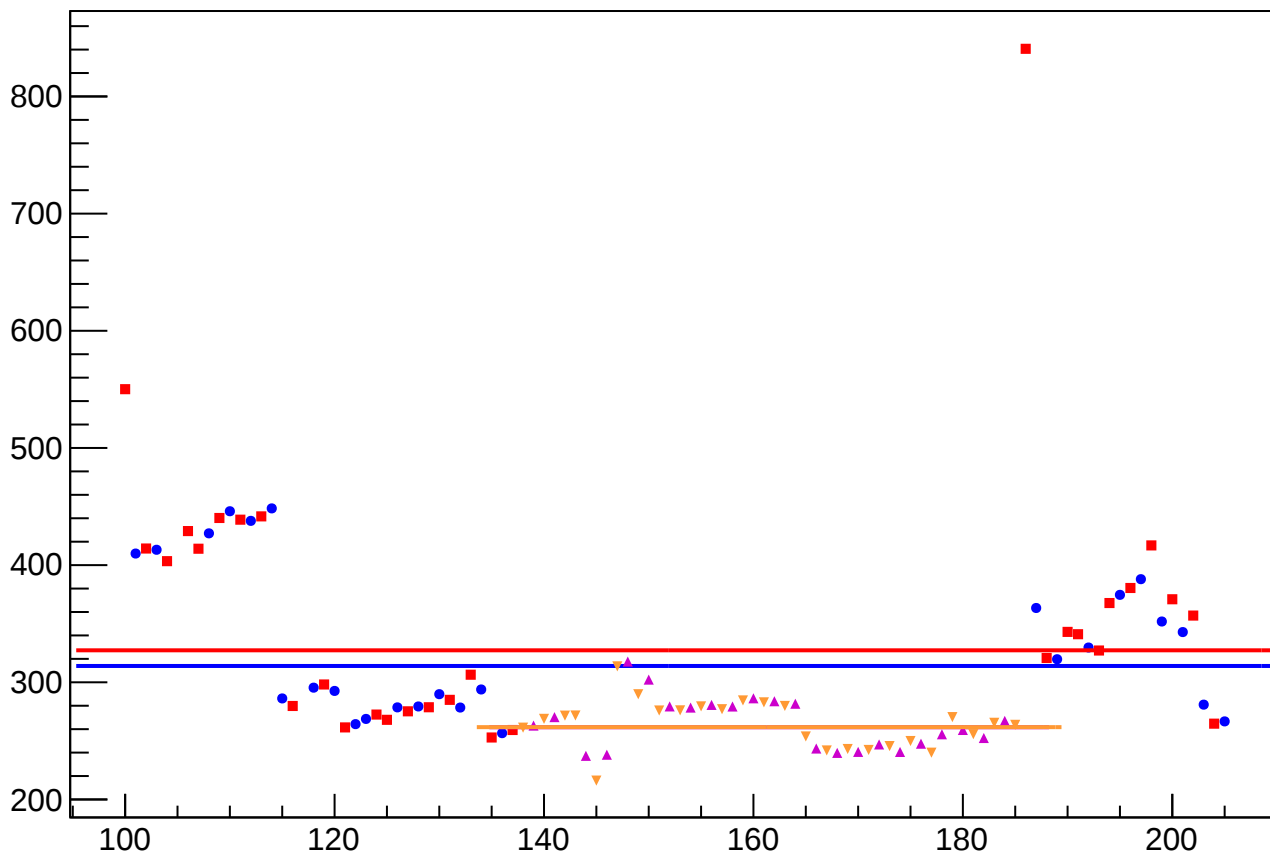
Right: 73.281 $\pm$ 62.871 χ^2 /NDF: 59.6/55

In: -33.386 $\pm$ 51.270 χ^2 /NDF:46.9/48

Out: -212.334 $\pm$ 50.386 χ^2 /NDF:78.8/54

All: -124.417 $\pm$ 35.937 χ^2 /NDF: 132.0/103

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 313.935+/-0.063 χ^2/NDF : 723461.8/25

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 327.299+/-0.063 χ^2/NDF : 1166743.8/29

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

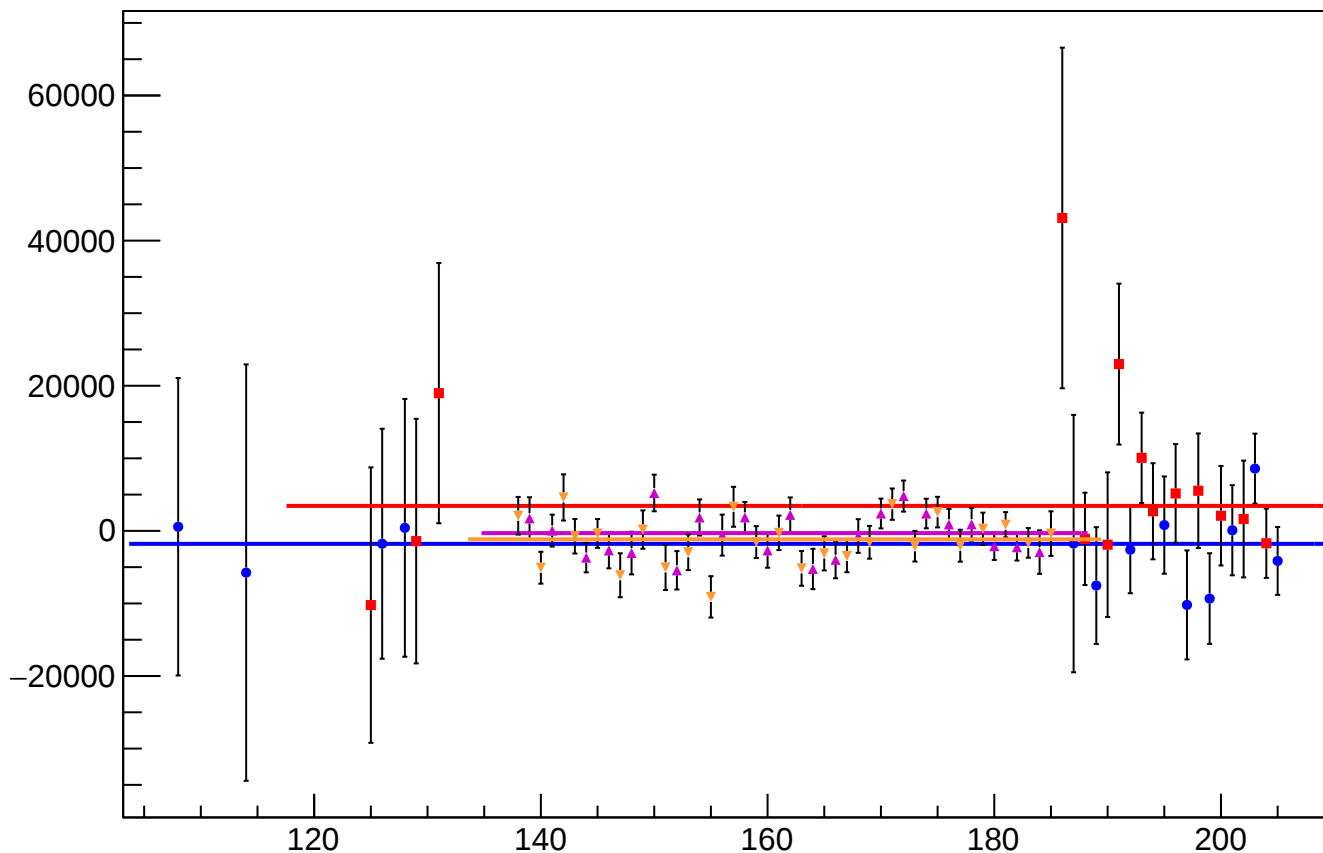
Right: 320.590+/-0.044 χ^2/NDF : 1912795.5/55

In: 279.097+/-0.036 χ^2/NDF : 1414518.1/48

Out: 282.695+/-0.036 χ^2/NDF : 2136946.5/54

All: 280.927+/-0.025 χ^2/NDF : 3556476.6/103

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -1787.334 ± 2051.792 χ^2/NDF : 8.4/12

Left Out: -1161.443 ± 469.036 χ^2/NDF : 38.8/24

Right Out: 3445.025 ± 2127.287 χ^2/NDF : 10.7/13

Left In: -304.366 ± 483.778 χ^2/NDF : 35.4/22

Left: -746.162 ± 336.750 χ^2/NDF : 75.7/47

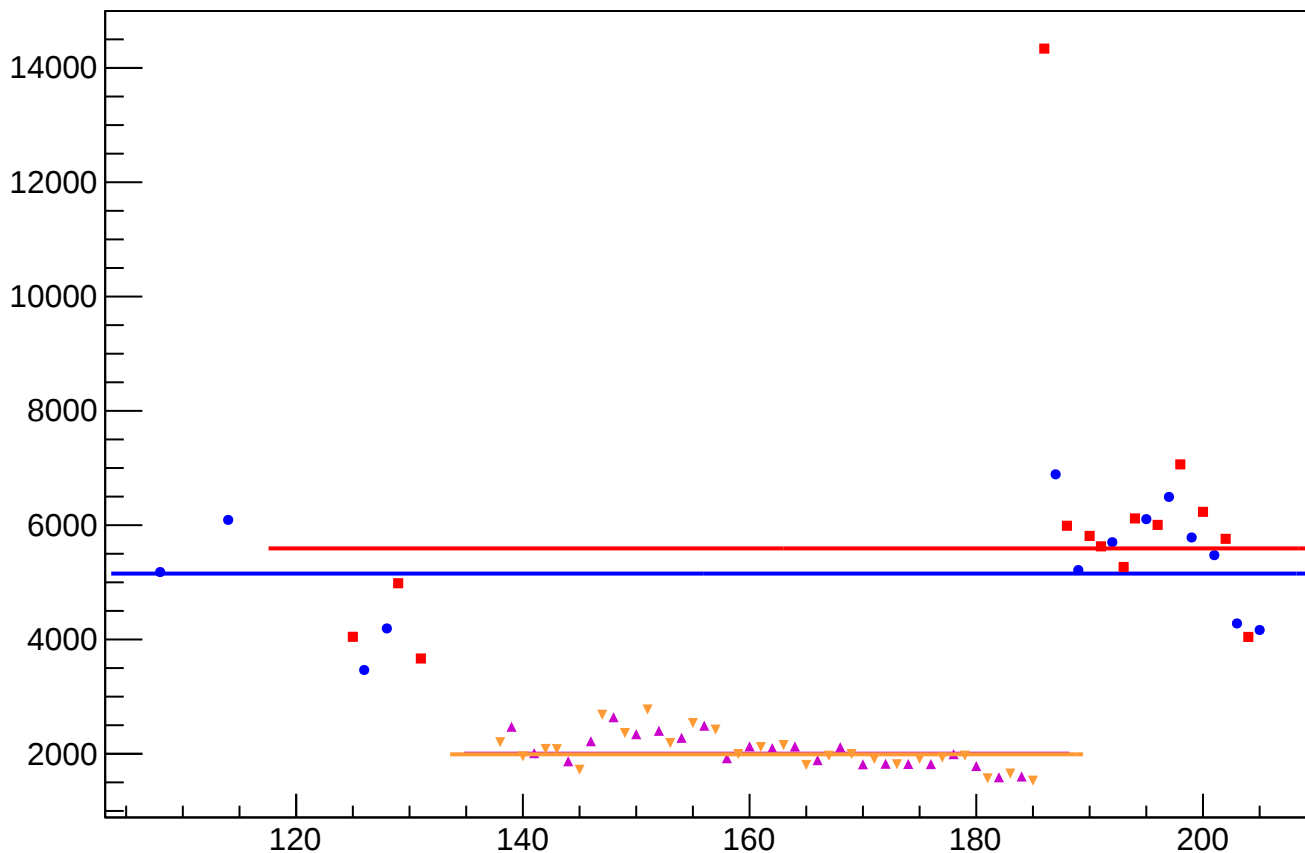
Right: 734.354 ± 1476.805 χ^2/NDF : 22.2/26

In: -382.468 ± 470.867 χ^2/NDF : 44.3/35

Out: -947.886 ± 458.035 χ^2/NDF : 53.9/38

All: -672.986 ± 328.322 χ^2/NDF : 98.9/74

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 5153.196+/-1.451 χ^2/NDF : 351423.8/12

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5593.225+/-1.504 χ^2/NDF : 648951.2/13

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

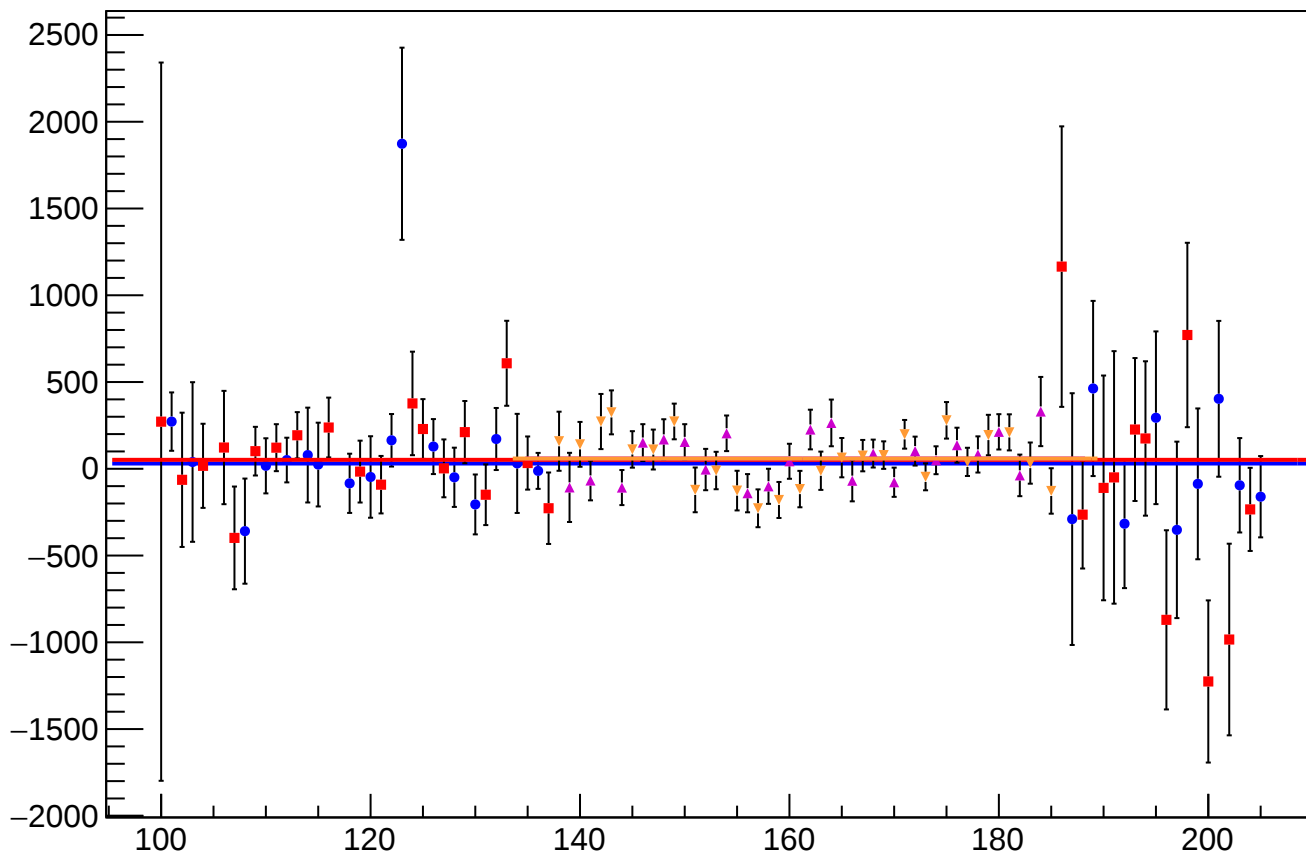
Right: 5365.264+/-1.044 χ^2/NDF : 1044707.1/26

In: 2168.106+/-0.333 χ^2/NDF : 5406006.6/35

Out: 2158.099+/-0.324 χ^2/NDF : 6843890.3/38

All: 2162.965+/-0.232 χ^2/NDF : 12250360.9/77

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 30.397 $\pm$ 41.230 χ^2 /NDF: 23.7/25

Left Out: 58.983 $\pm$ 21.137 χ^2 /NDF:46.9/24

Right Out: 51.610 $\pm$ 40.988 χ^2 /NDF: 38.2/29

Left In: 59.235 $\pm$ 21.921 χ^2 /NDF:29.4/22

Left: 59.104 $\pm$ 15.216 χ^2 /NDF: 76.3/47

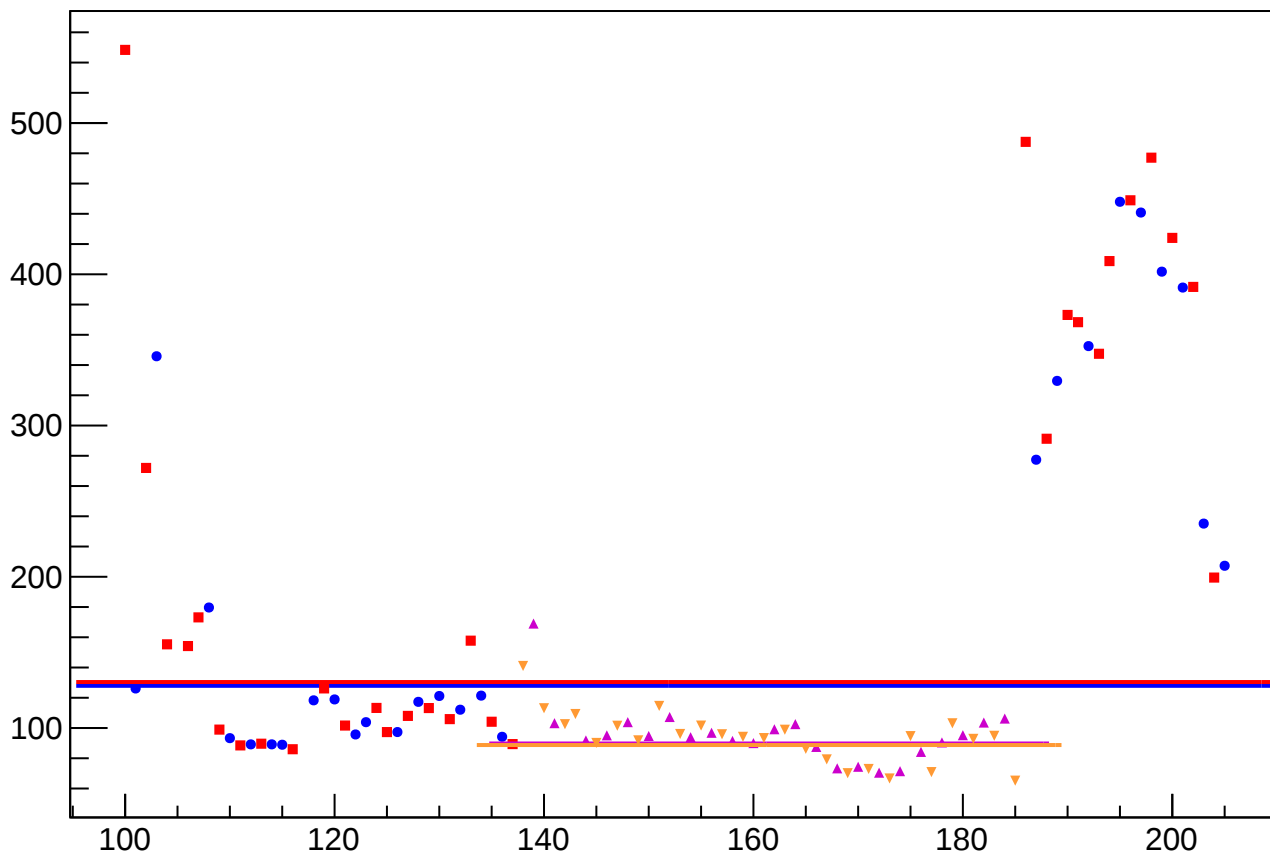
Right: 41.066 $\pm$ 29.068 χ^2 /NDF: 62.1/55

In: 52.879 $\pm$ 19.355 χ^2 /NDF:53.5/48

Out: 57.434 $\pm$ 18.786 χ^2 /NDF:85.2/54

All: 55.225 $\pm$ 13.481 χ^2 /NDF: 138.7/103

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 127.909 $\pm$ 0.029 χ^2 /NDF: 6036548.2/25

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF: 1079338.8/24

Right Out: 130.403 $\pm$ 0.029 χ^2 /NDF: 7211232.5/29

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

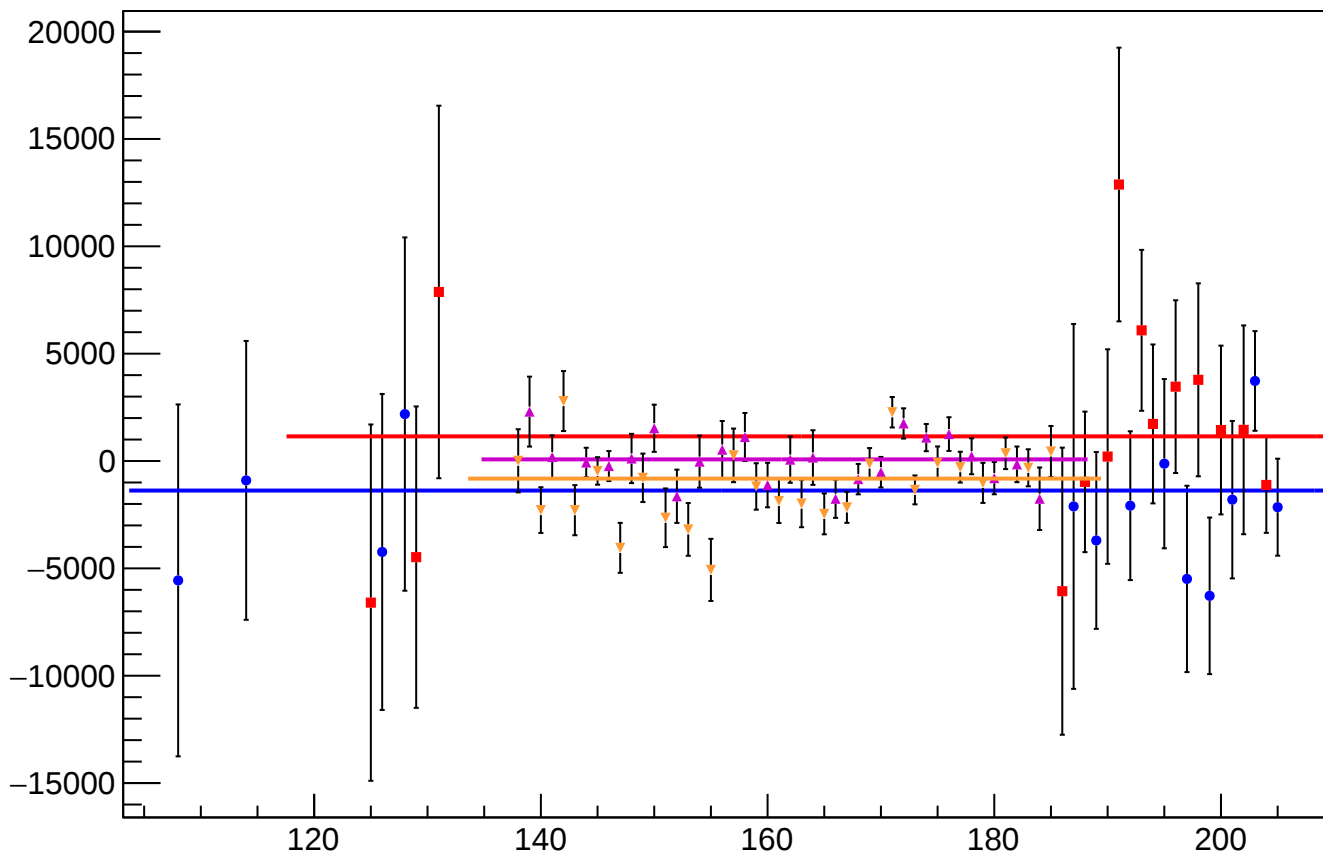
Right: 129.164 $\pm$ 0.021 χ^2 /NDF: 13251462.1/55

In: 98.172 $\pm$ 0.014 χ^2 /NDF: 8256864.3/48

Out: 97.499 $\pm$ 0.013 χ^2 /NDF: 9922304.0/54

All: 97.825 $\pm$ 0.010 χ^2 /NDF: 18180412.7/103

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -1375.669 $\pm$ 1068.120 χ^2 /NDF: 8.7/12

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 1147.783 $\pm$ 1123.851 χ^2 /NDF: 10.6/13

Left In: 76.204 $\pm$ 186.651 χ^2 /NDF:28.3/22

Left: -376.610 $\pm$ 131.202 χ^2 /NDF: 108.1/47

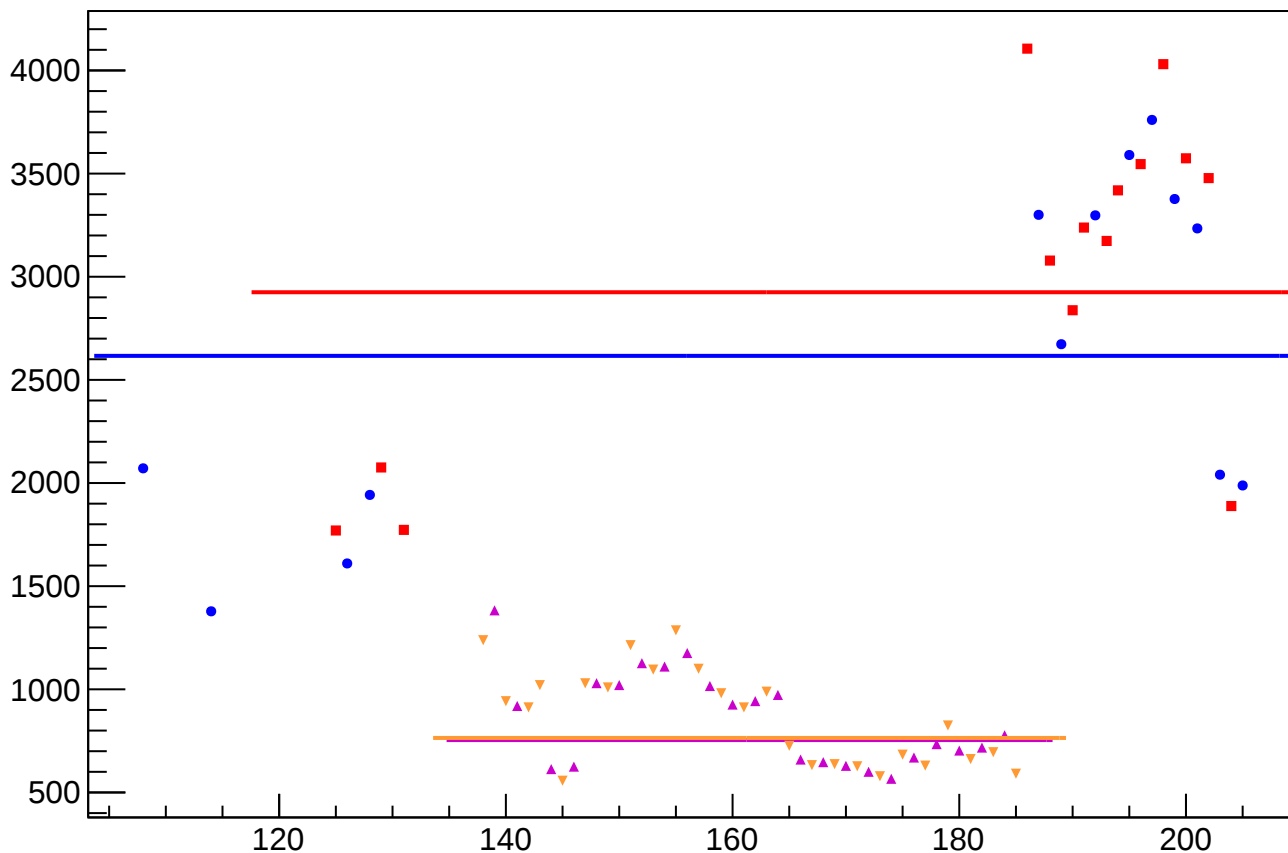
Right: -178.061 $\pm$ 774.227 χ^2 /NDF: 22.0/26

In: 33.183 $\pm$ 183.865 χ^2 /NDF:38.8/35

Out: -767.284 $\pm$ 182.028 χ^2 /NDF:81.8/38

All: -371.068 $\pm$ 129.358 χ^2 /NDF: 130.2/74

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2616.470 $\pm$ 0.755 χ^2 /NDF: 905564.3/12

Left Out: 764.280 $\pm$ 0.130 χ^2 /NDF:2315985.8/24

Right Out: 2924.849 $\pm$ 0.795 χ^2 /NDF: 900327.8/13

Left In: 754.027 $\pm$ 0.132 χ^2 /NDF:2013386.7/22

Left: 759.214 $\pm$ 0.093 χ^2 /NDF: 4332425.4/47

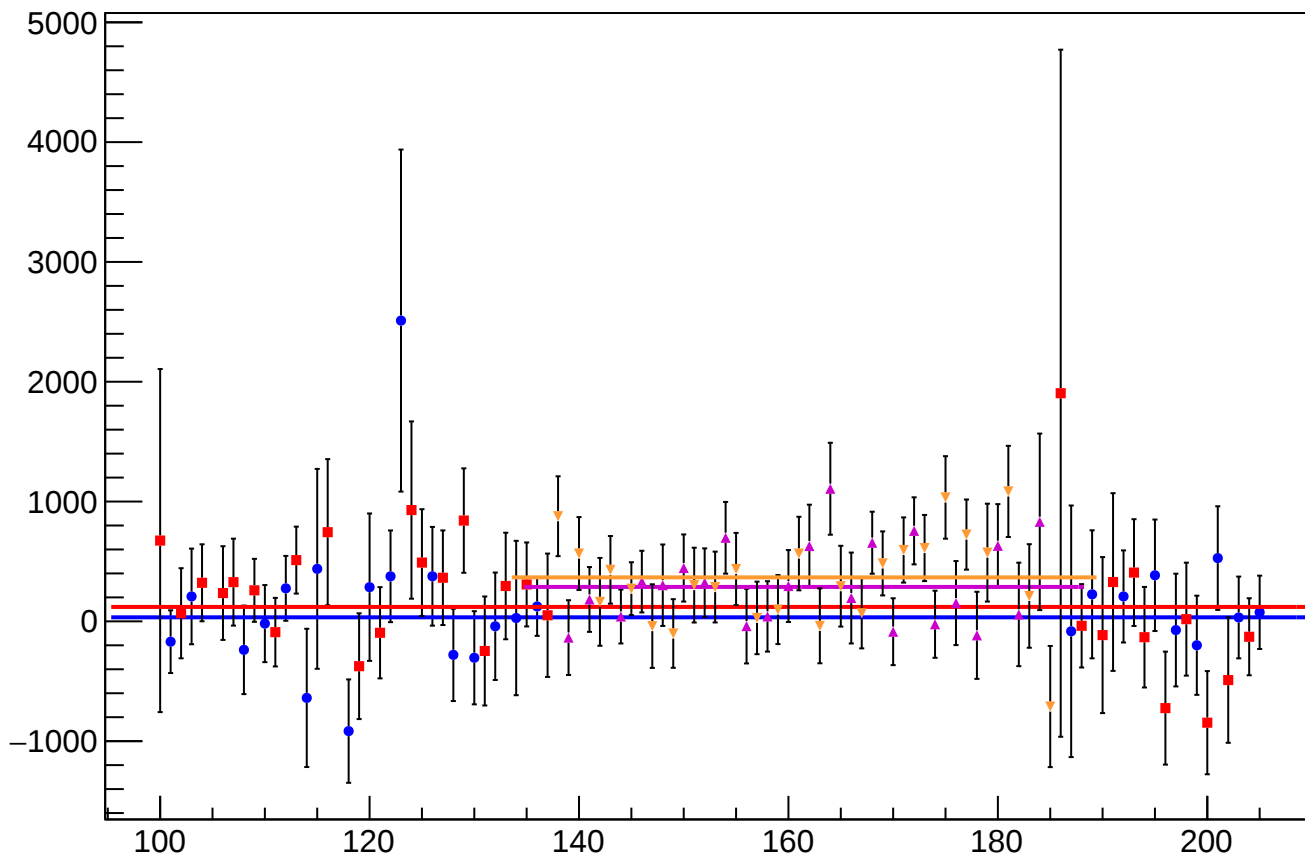
Right: 2762.824 $\pm$ 0.547 χ^2 /NDF: 1885010.8/26

In: 809.214 $\pm$ 0.130 χ^2 /NDF:8819508.6/35

Out: 820.959 $\pm$ 0.129 χ^2 /NDF:10414181.4/38

All: 815.146 $\pm$ 0.091 χ^2 /NDF: 19237811.6/74

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 33.689 +/- 77.791 χ^2/NDF : 17.5/25

Left Out: 367.028 +/- 61.943 χ^2/NDF : 28.2/24

Right Out: 120.316 +/- 75.177 χ^2/NDF : 24.3/29

Left In: 287.246 +/- 64.141 χ^2/NDF : 23.9/22

Left: 328.527 +/- 44.557 χ^2/NDF : 52.9/47

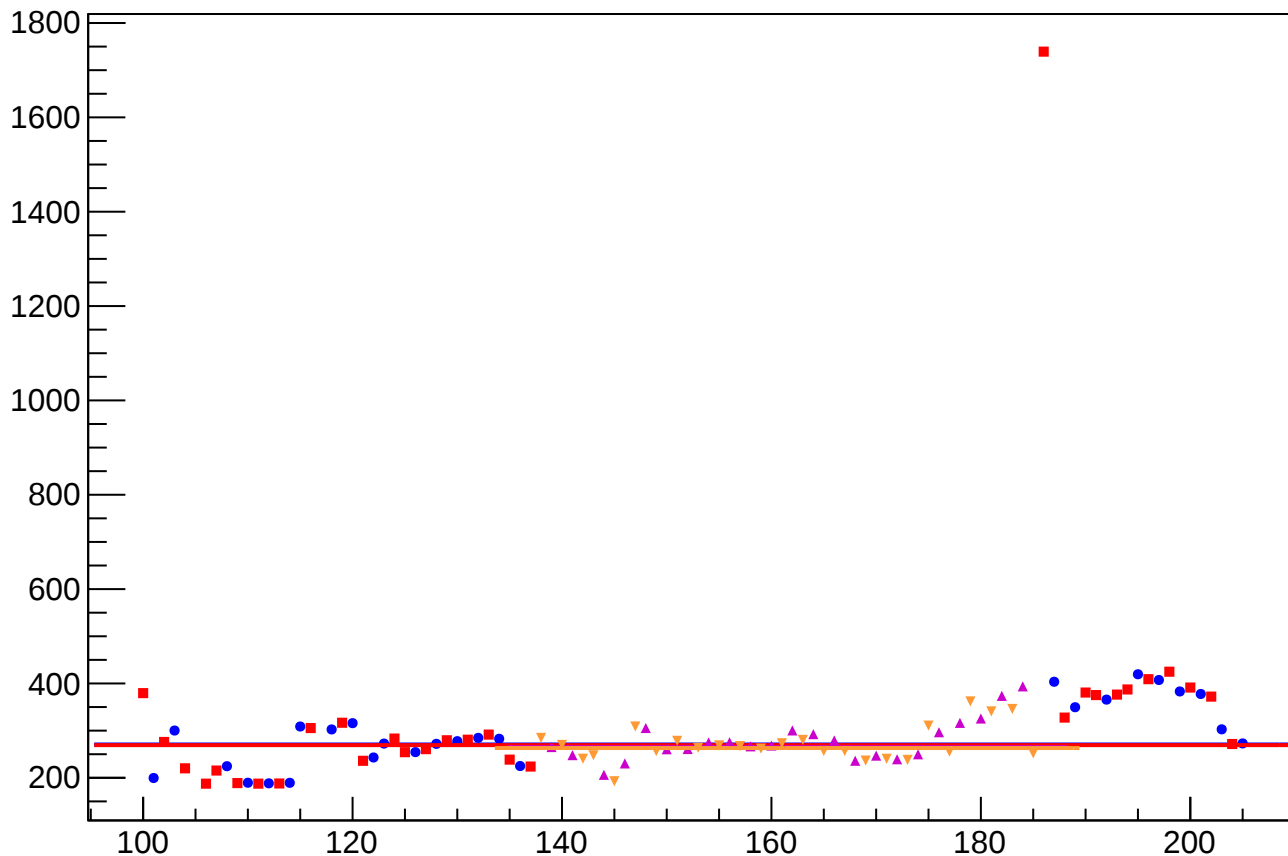
Right: 78.483 +/- 54.058 χ^2/NDF : 42.4/55

In: 184.630 +/- 49.488 χ^2/NDF : 47.7/48

Out: 267.263 +/- 47.806 χ^2/NDF : 59.0/54

All: 227.374 +/- 34.383 χ^2/NDF : 108.1/103

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 270.607 $\pm$ 0.055 χ^2 /NDF: 1512528.3/25

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 269.267 $\pm$ 0.053 χ^2 /NDF: 2384675.5/29

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

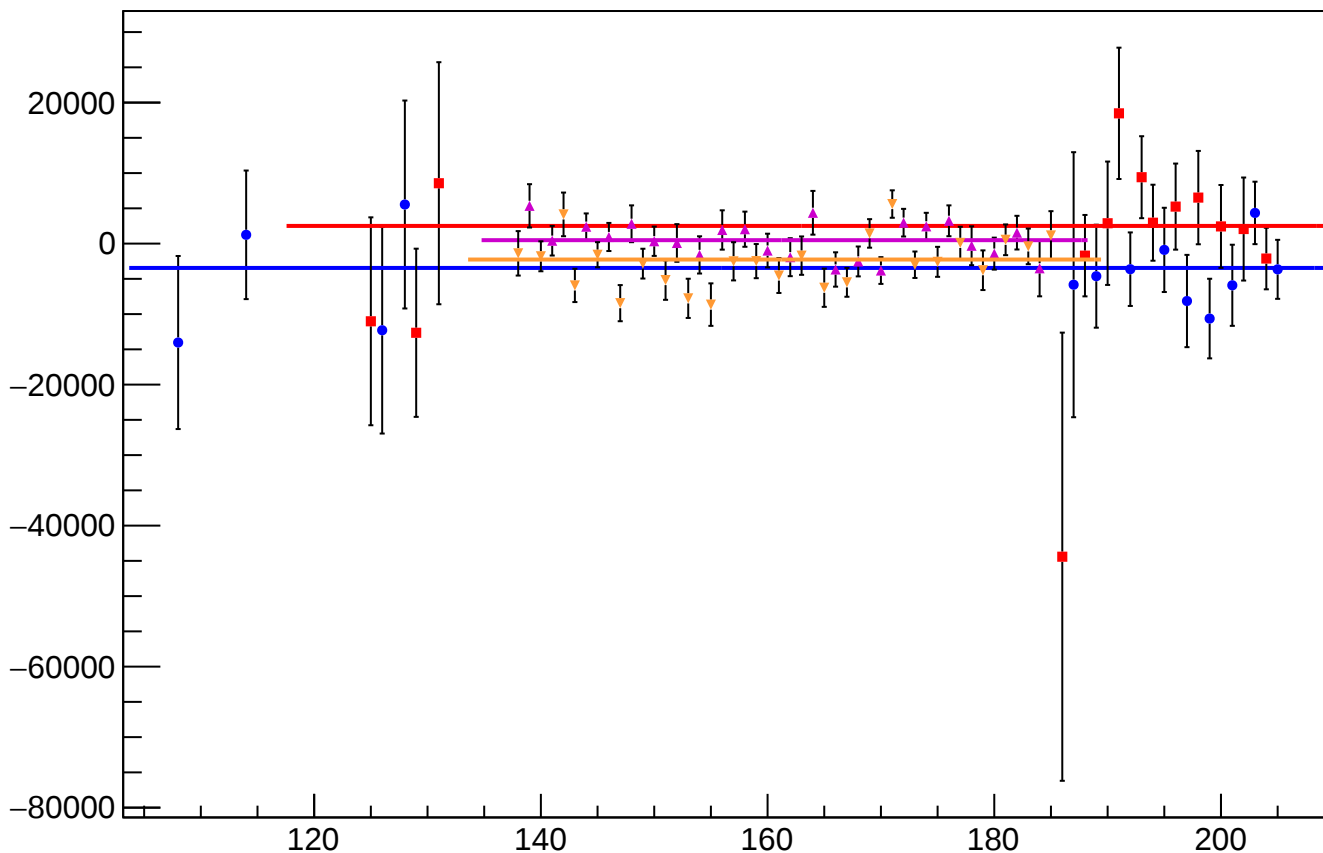
Right: 269.914 $\pm$ 0.038 χ^2 /NDF: 3897510.6/55

In: 267.223 $\pm$ 0.035 χ^2 /NDF: 2127910.1/48

Out: 265.596 $\pm$ 0.034 χ^2 /NDF: 3034911.2/54

All: 266.381 $\pm$ 0.024 χ^2 /NDF: 5163940.7/103

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -3452.023+/-1803.860 χ^2/NDF : 7.4/12

Left Out: -2260.196+/-475.336 χ^2/NDF : 52.3/24

Right Out: 2507.024+/-1874.993 χ^2/NDF : 11.4/13

Left In: 485.590+/-487.465 χ^2/NDF : 24.8/22

Left: -921.890+/-340.321 χ^2/NDF : 93.4/47

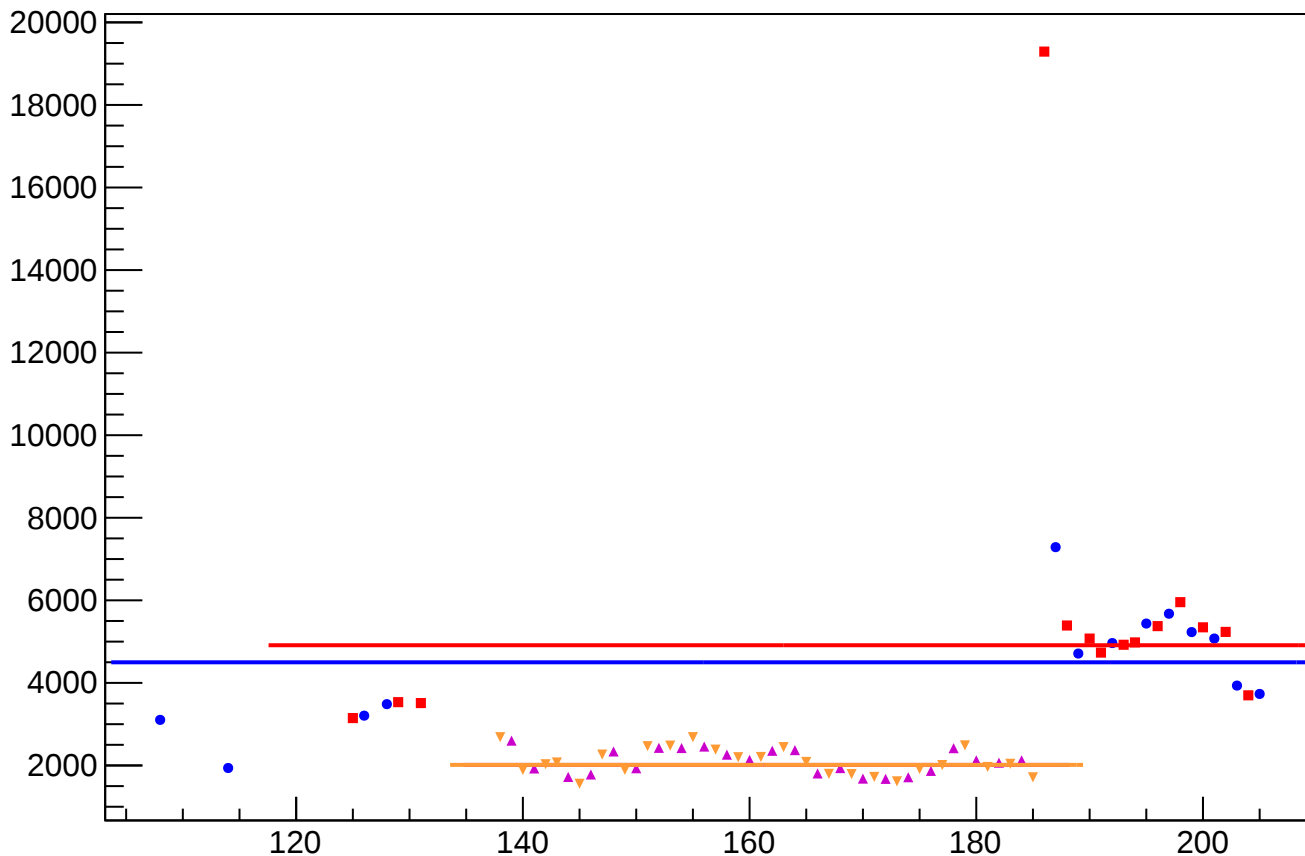
Right: -587.679+/-1299.942 χ^2/NDF : 24.0/26

In: 217.609+/-470.585 χ^2/NDF : 36.6/35

Out: -1972.314+/-460.760 χ^2/NDF : 69.8/38

All: -900.454+/-329.225 χ^2/NDF : 117.4/74

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4498.626+/-1.276 χ^2/NDF : 537391.4/12

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4912.210+/-1.326 χ^2/NDF : 724035.0/13

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

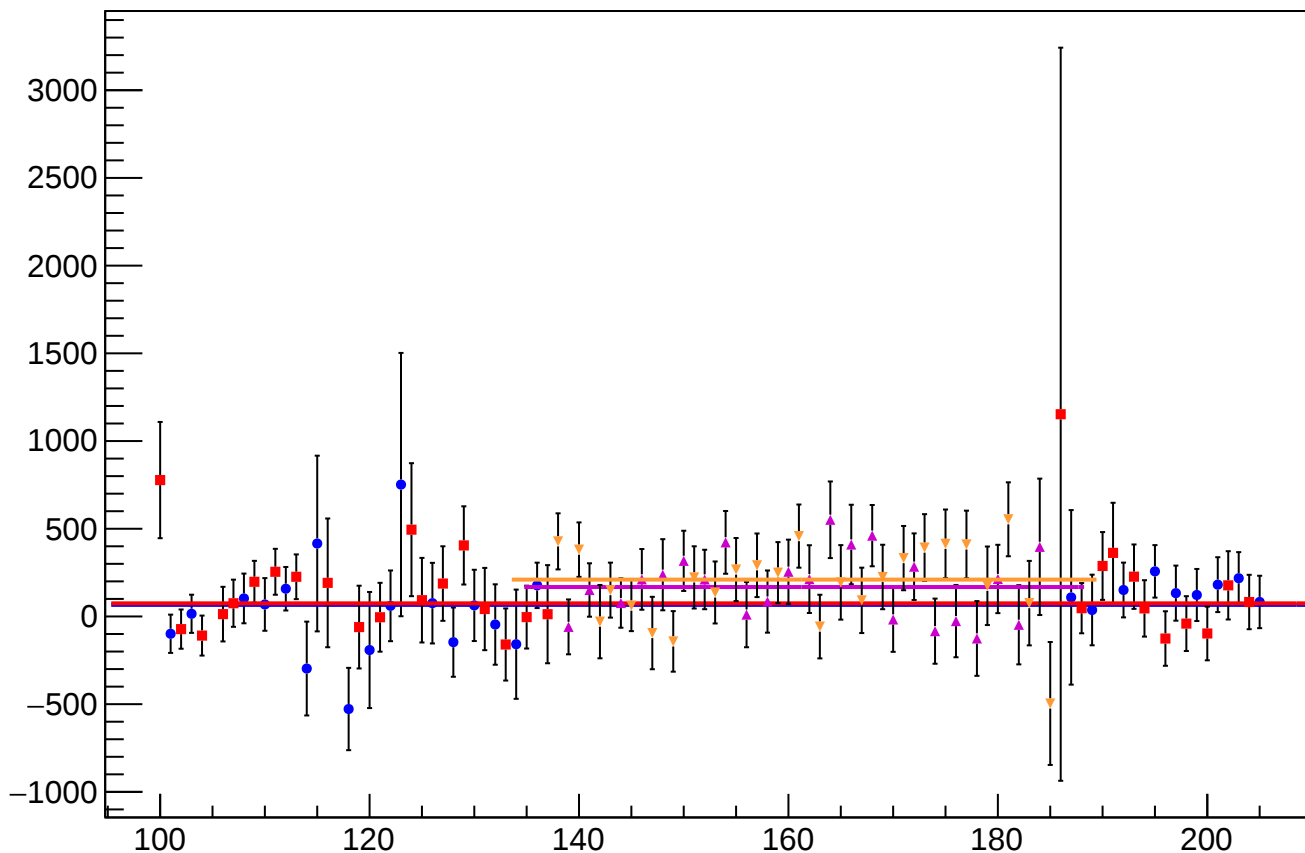
Right: 4697.424+/-0.919 χ^2/NDF : 1311962.4/26

In: 2182.392+/-0.333 χ^2/NDF : 4737809.6/35

Out: 2189.116+/-0.326 χ^2/NDF : 6049288.8/38

All: 2185.825+/-0.233 χ^2/NDF : 10787306.9/77

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 66.036 $\pm$ 33.548 χ^2 /NDF: 19.8/25

Left Out: 210.086 $\pm$ 37.093 χ^2 /NDF:27.5/24

Right Out: 74.755 $\pm$ 31.531 χ^2 /NDF: 26.2/29

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

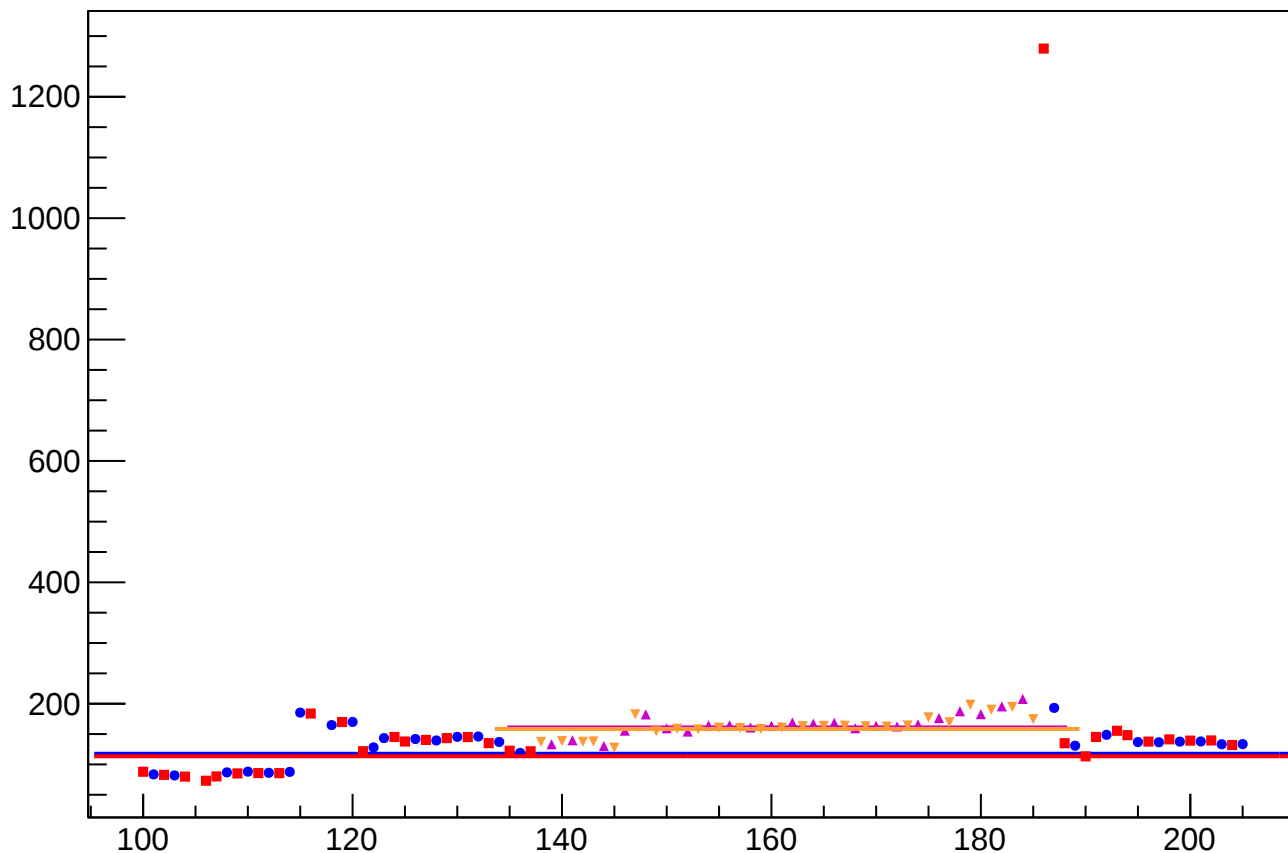
Right: 70.666 $\pm$ 22.976 χ^2 /NDF: 46.1/55

In: 109.685 $\pm$ 25.354 χ^2 /NDF:44.9/48

Out: 131.523 $\pm$ 24.024 χ^2 /NDF:61.5/54

All: 121.192 $\pm$ 17.439 χ^2 /NDF: 106.8/103

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 117.515 $\pm$ 0.024 χ^2 /NDF: 1344615.0/25

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF:434300.9/24

Right Out: 113.404 $\pm$ 0.022 χ^2 /NDF: 2371597.9/29

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

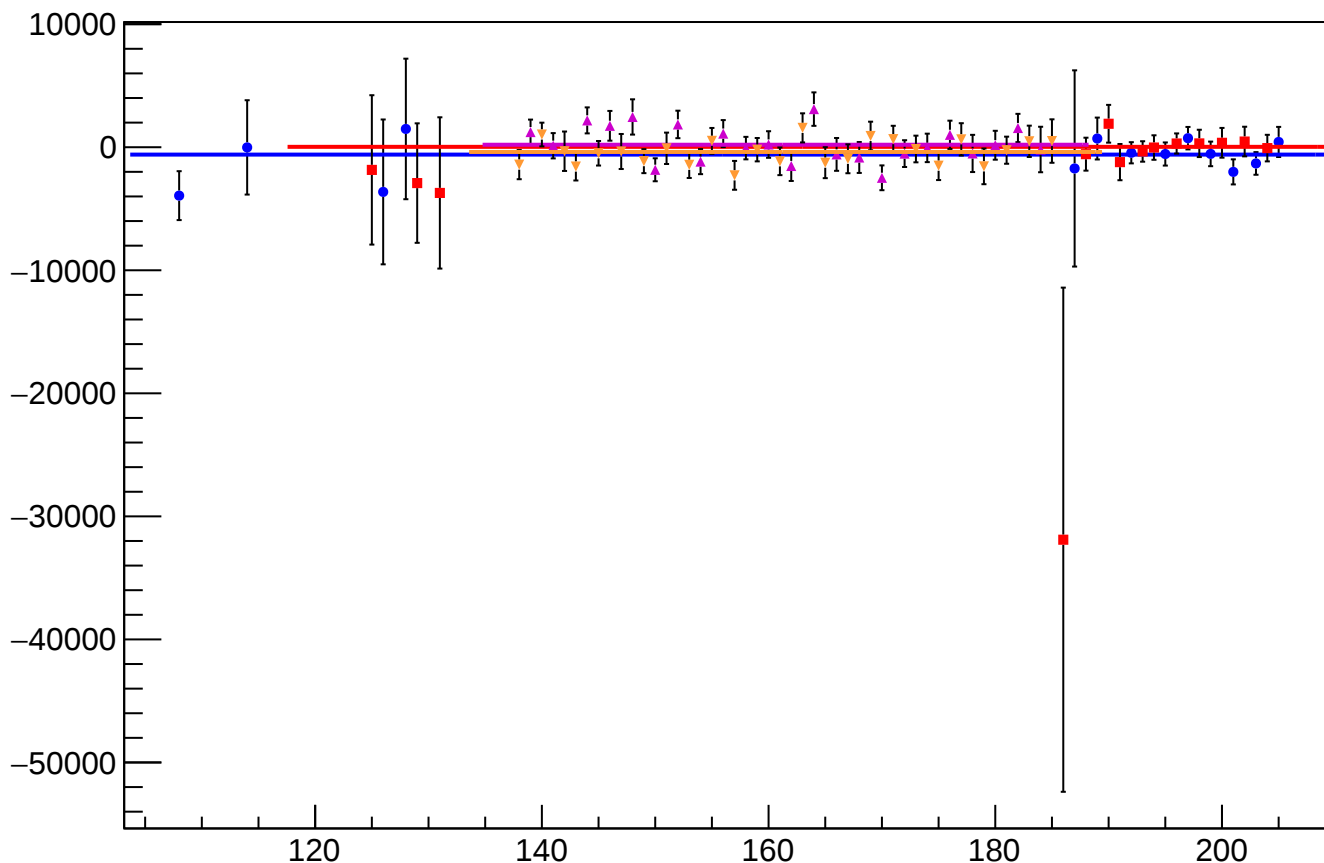
Right: 115.332 $\pm$ 0.016 χ^2 /NDF: 3732161.3/55

In: 136.140 $\pm$ 0.018 χ^2 /NDF:3161785.9/48

Out: 132.295 $\pm$ 0.017 χ^2 /NDF:4517441.6/54

All: 134.114 $\pm$ 0.012 χ^2 /NDF: 7703460.6/103

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -599.054+/-348.442 χ^2/NDF : 9.2/12

Left Out: -385.018+/-231.833 χ^2/NDF :18.1/24

Right Out: 31.718+/-342.264 χ^2/NDF : 6.3/13

Left In: 202.234+/-237.460 χ^2/NDF :35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

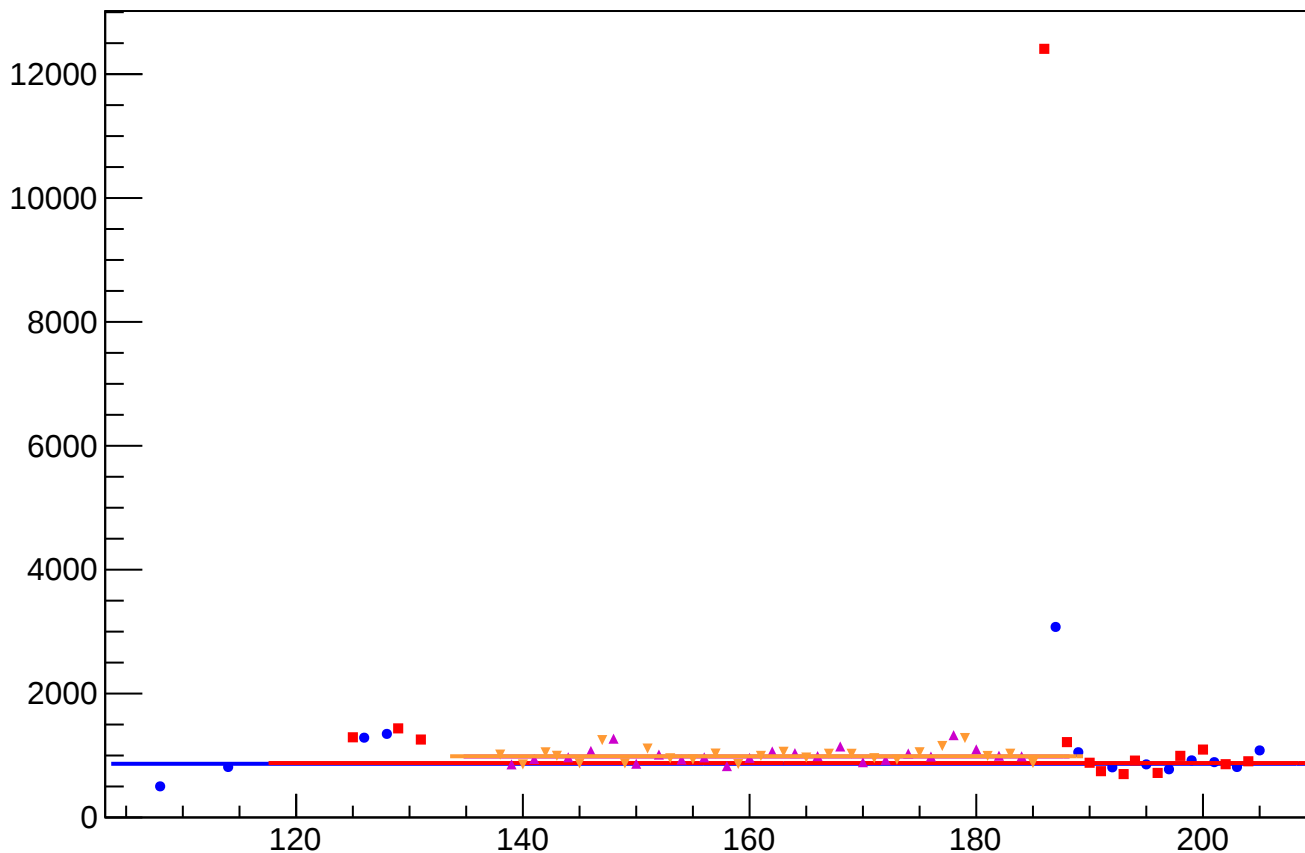
Right: -278.027+/-244.172 χ^2/NDF : 17.2/26

In: -51.886+/-196.226 χ^2/NDF :48.3/35

Out: -253.952+/-191.945 χ^2/NDF :25.3/38

All: -155.147+/-137.214 χ^2/NDF : 74.2/74

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 866.318 $\pm$ 0.246 χ^2 /NDF: 374171.1/12

Left Out: 987.869 $\pm$ 0.164 χ^2 /NDF: 376958.5/24

Right Out: 878.554 $\pm$ 0.242 χ^2 /NDF: 1079992.2/13

Left In: 983.893 $\pm$ 0.168 χ^2 /NDF: 416265.7/22

Left: 985.929 $\pm$ 0.117 χ^2 /NDF: 793511.2/47

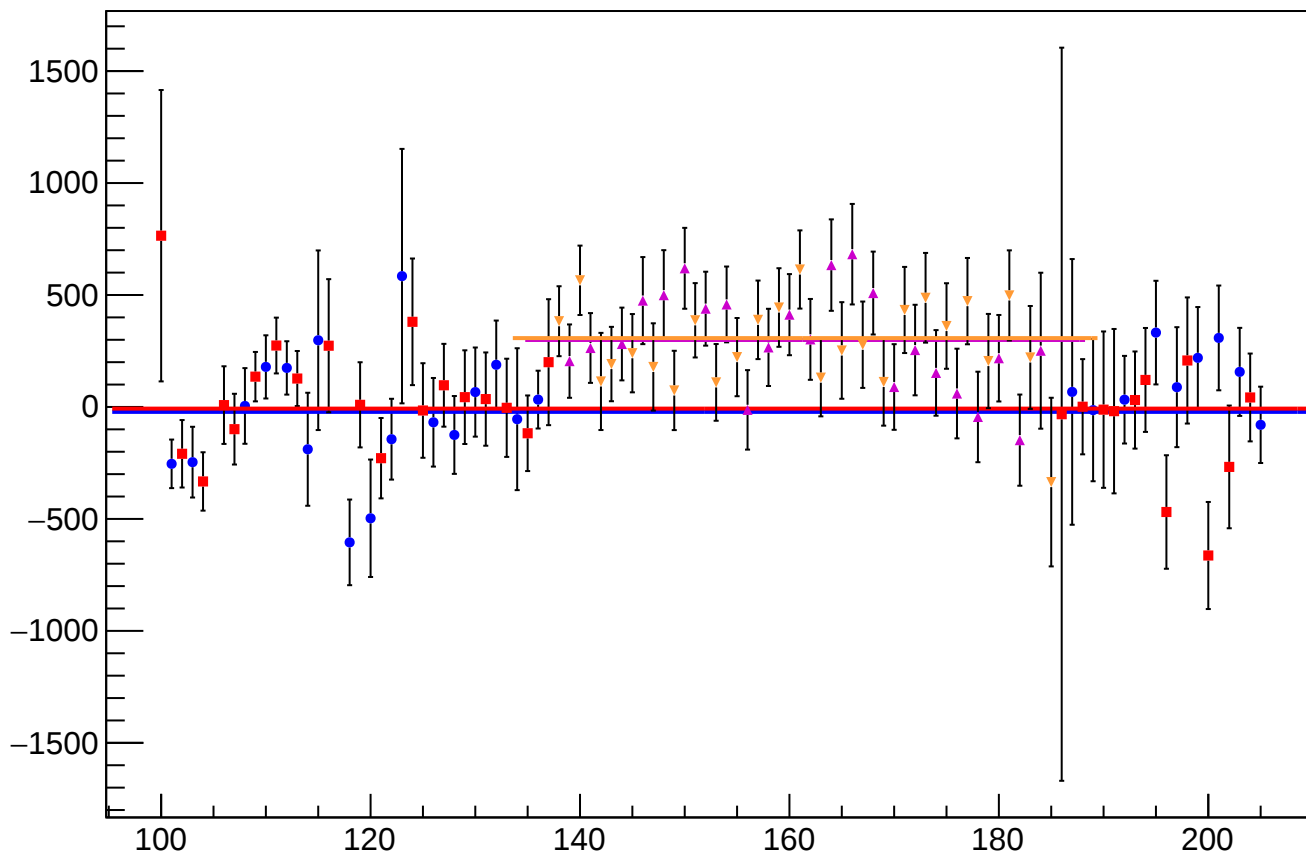
Right: 872.546 $\pm$ 0.173 χ^2 /NDF: 1455418.6/26

In: 946.605 $\pm$ 0.139 χ^2 /NDF: 945937.4/35

Out: 953.489 $\pm$ 0.136 χ^2 /NDF: 1596801.8/38

All: 950.123 $\pm$ 0.097 χ^2 /NDF: 2543996.8/74

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -21.956 ± 37.078 $\chi^2/\text{NDF}: 35.2/25$

Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$

Right Out: -7.390 ± 35.293 $\chi^2/\text{NDF}: 36.2/29$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

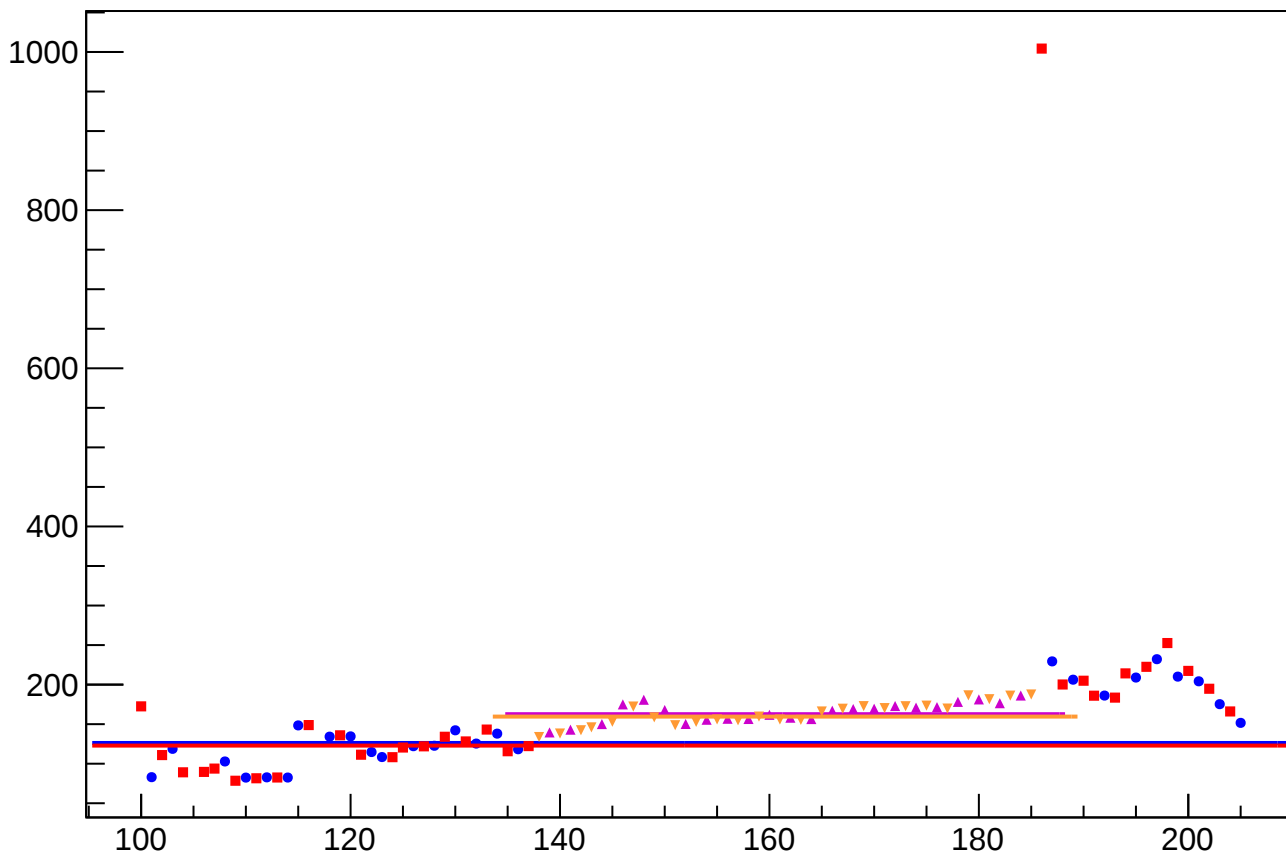
Right: -14.314 ± 25.564 $\chi^2/\text{NDF}: 71.5/55$

In: 130.473 ± 26.875 $\chi^2/\text{NDF}: 99.3/48$

Out: 141.446 ± 25.629 $\chi^2/\text{NDF}: 94.5/54$

All: 136.220 ± 18.547 $\chi^2/\text{NDF}: 193.9/103$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 126.217 $\pm$ 0.026 χ^2 /NDF: 2534664.7/25

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF: 287744.2/24

Right Out: 122.895 $\pm$ 0.025 χ^2 /NDF: 3884971.7/29

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

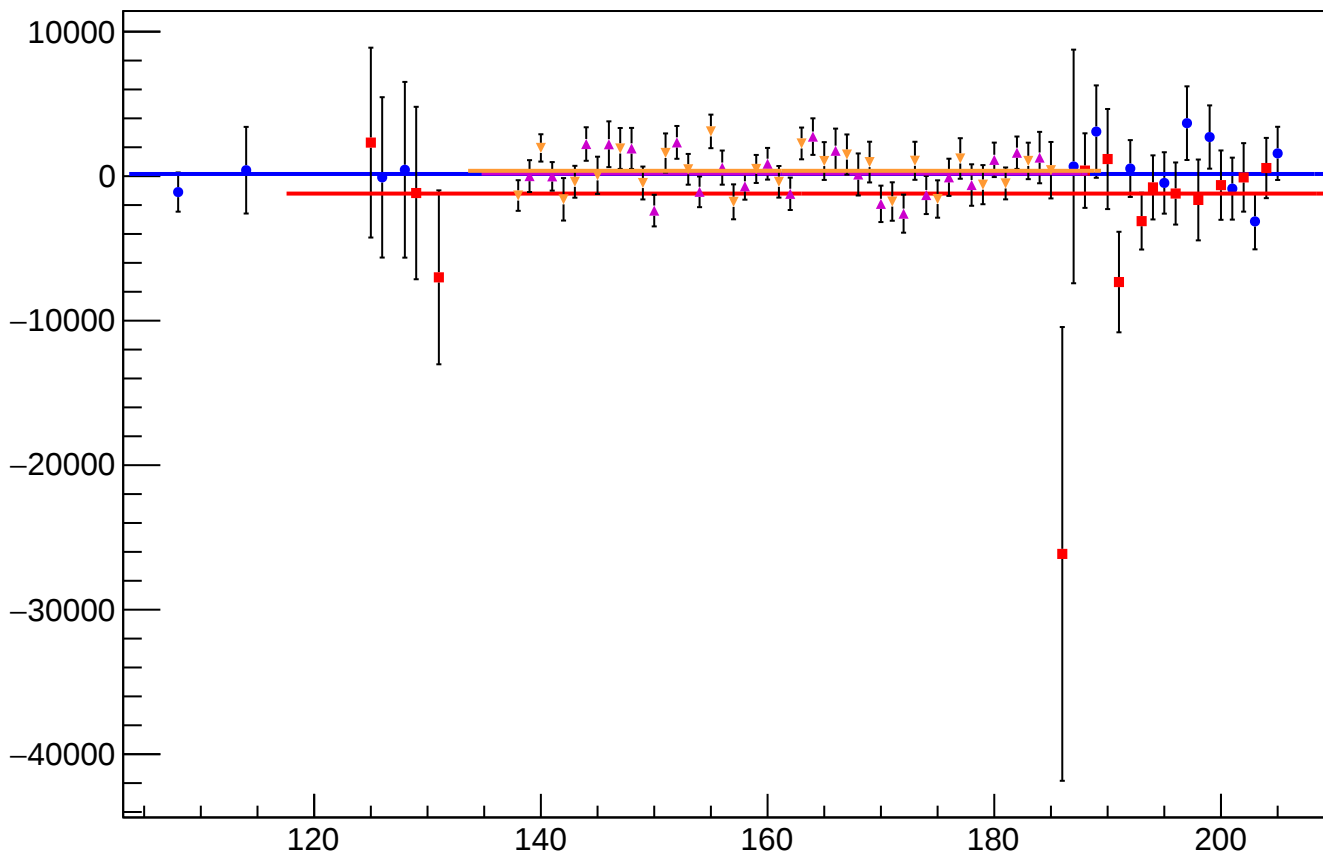
Right: 124.474 $\pm$ 0.018 χ^2 /NDF: 6428062.1/55

In: 143.489 $\pm$ 0.019 χ^2 /NDF: 3648536.3/48

Out: 140.230 $\pm$ 0.018 χ^2 /NDF: 5193464.7/54

All: 141.782 $\pm$ 0.013 χ^2 /NDF: 8857407.2/103

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 151.053 $\pm$ 638.845 χ^2 /NDF: 8.8/12

Left Out: 370.001 $\pm$ 243.521 χ^2 /NDF:30.5/24

Right Out: -1205.420 $\pm$ 747.917 χ^2 /NDF: 9.7/13

Left In: 183.107 $\pm$ 252.258 χ^2 /NDF:36.5/22

Left: 279.847 $\pm$ 175.203 χ^2 /NDF: 67.2/47

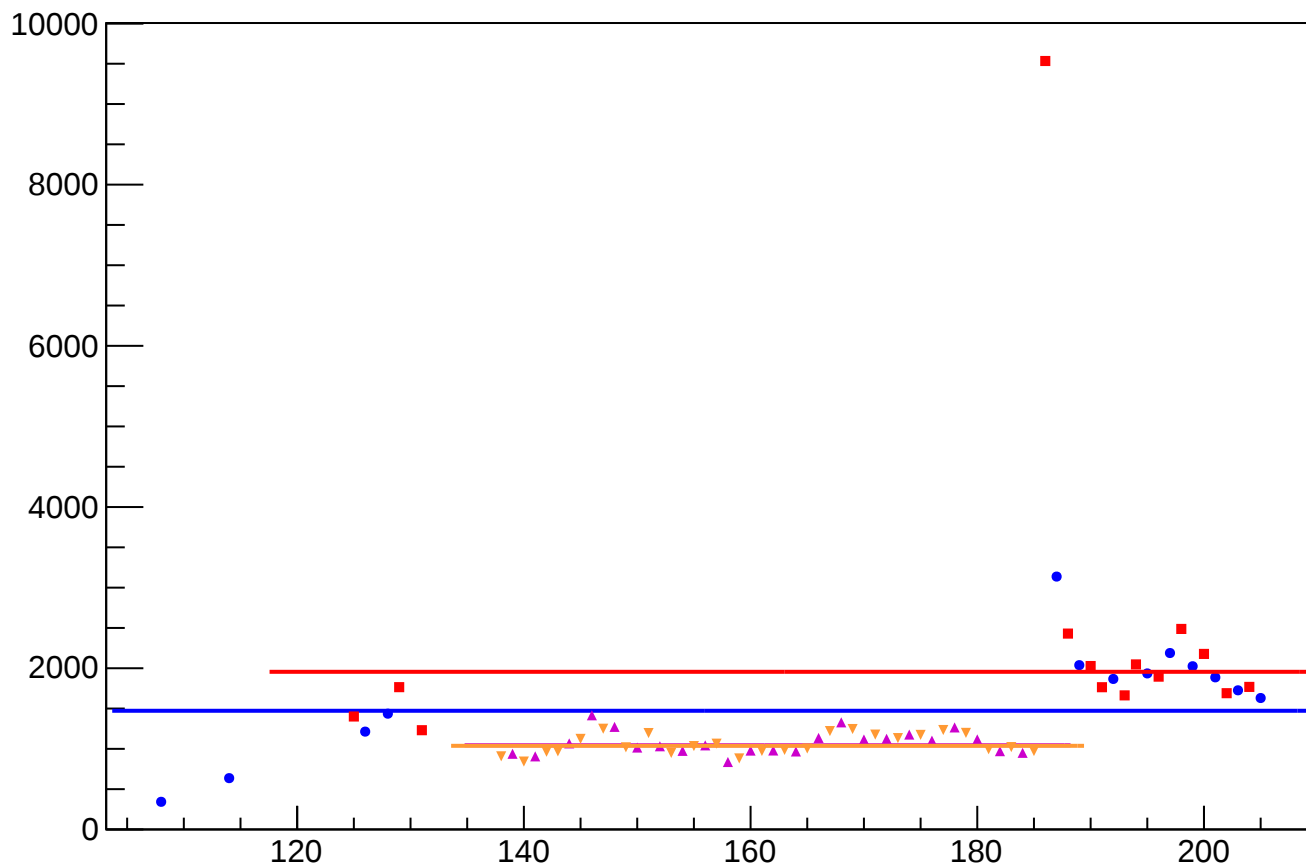
Right: -421.149 $\pm$ 485.761 χ^2 /NDF: 20.4/26

In: 178.783 $\pm$ 234.629 χ^2 /NDF:45.3/35

Out: 218.993 $\pm$ 231.556 χ^2 /NDF:44.2/38

All: 199.153 $\pm$ 164.810 χ^2 /NDF: 89.5/74

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1472.410+/-0.452 χ^2/NDF : 2278813.2/12

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1955.886+/-0.529 χ^2/NDF : 765559.3/13

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

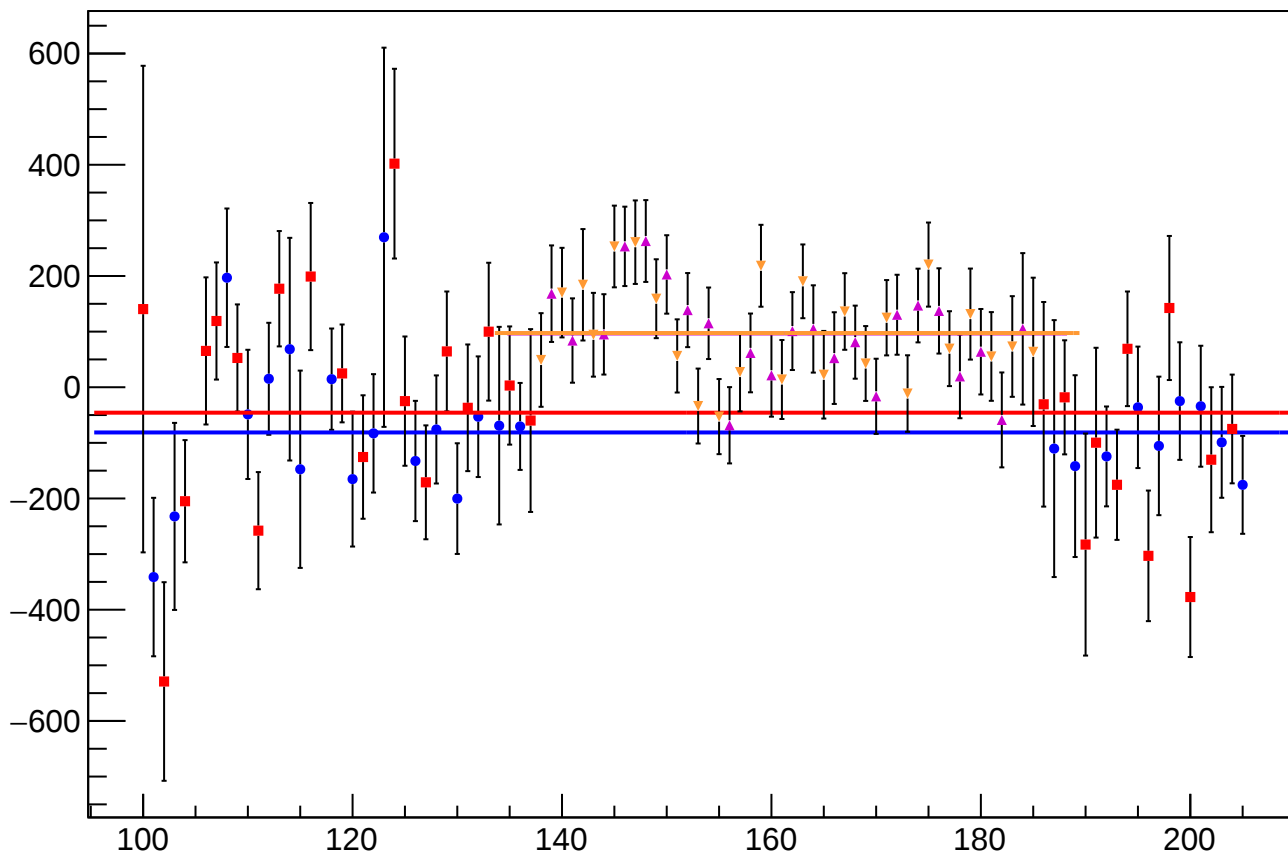
Right: 1676.355+/-0.343 χ^2/NDF : 3527572.2/26

In: 1102.432+/-0.166 χ^2/NDF : 3597515.0/35

Out: 1125.701+/-0.164 χ^2/NDF : 3985959.6/38

All: 1114.220+/-0.117 χ^2/NDF : 7593439.1/74

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -81.307 ± 22.535 $\chi^2/\text{NDF}: 17.5/25$

Left Out: 97.445 ± 14.880 $\chi^2/\text{NDF}: 36.0/24$

Right Out: -45.745 ± 21.593 $\chi^2/\text{NDF}: 59.5/29$

Left In: 96.704 ± 15.369 $\chi^2/\text{NDF}: 29.2/22$

Left: 97.087 ± 10.690 $\chi^2/\text{NDF}: 65.2/47$

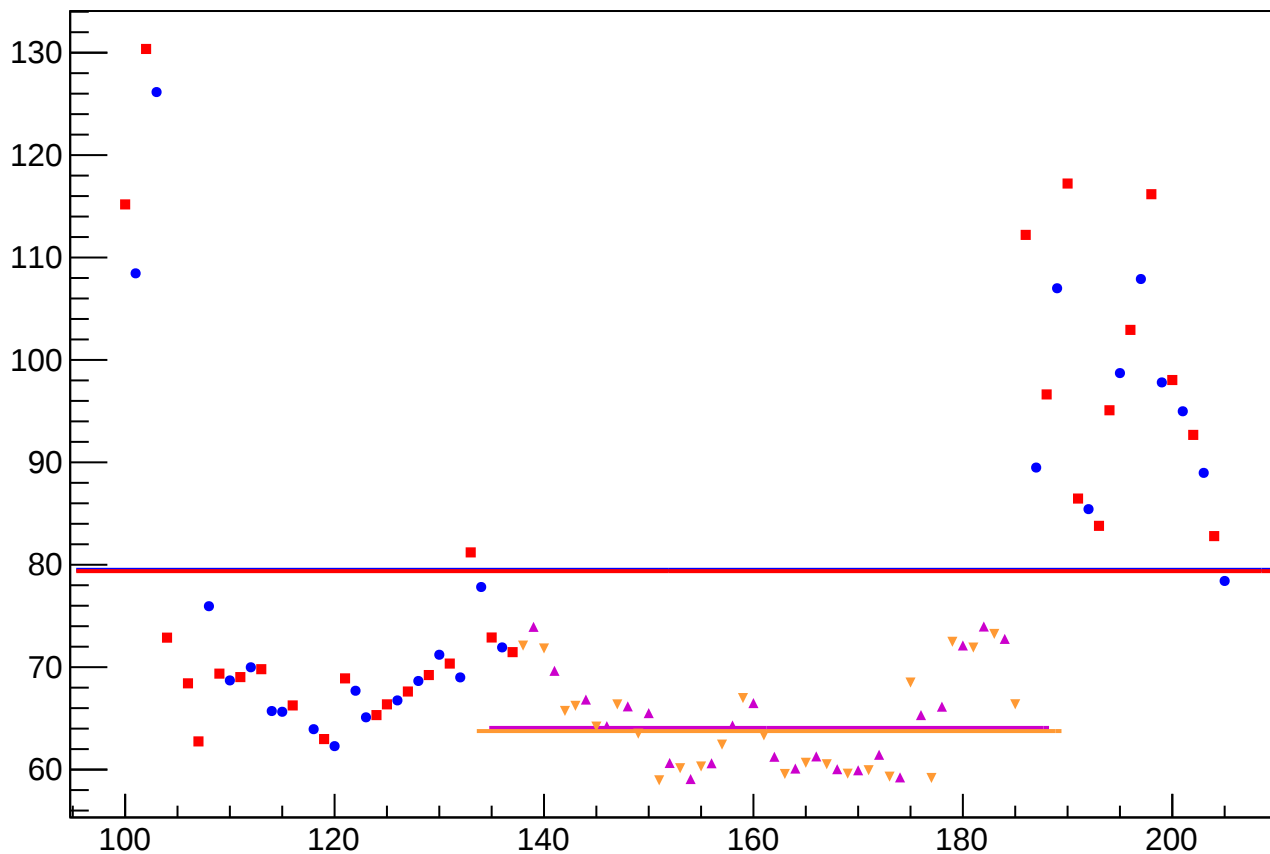
Right: -62.767 ± 15.591 $\chi^2/\text{NDF}: 78.3/55$

In: 40.191 ± 12.697 $\chi^2/\text{NDF}: 89.3/48$

Out: 51.341 ± 12.252 $\chi^2/\text{NDF}: 125.4/54$

All: 45.965 ± 8.817 $\chi^2/\text{NDF}: 215.0/103$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 79.506 $\pm$ 0.016 χ^2 /NDF: 879986.8/25

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF:192803.8/24

Right Out: 79.377 $\pm$ 0.015 χ^2 /NDF: 1091071.4/29

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

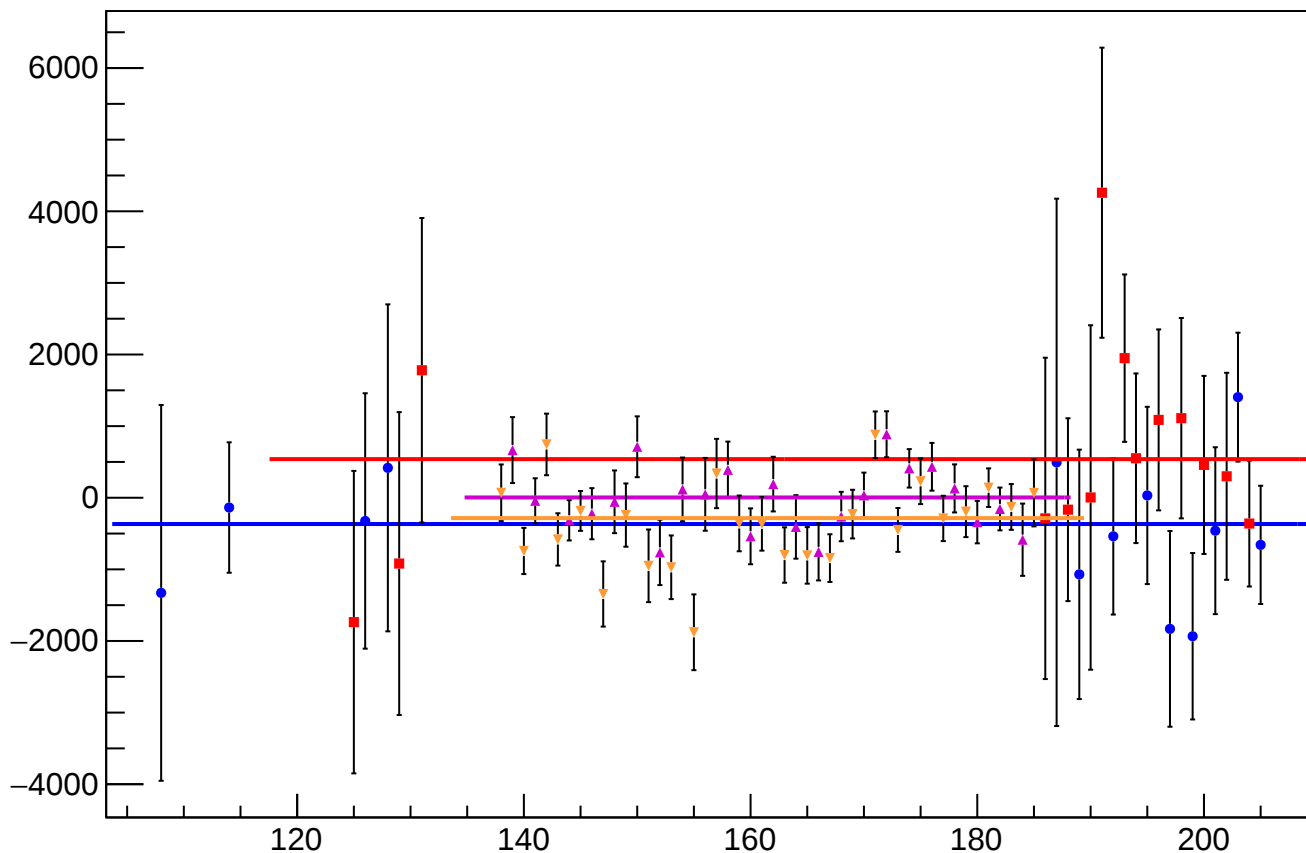
Right: 79.439 $\pm$ 0.011 χ^2 /NDF: 1971092.4/55

In: 68.970 $\pm$ 0.009 χ^2 /NDF:1685262.9/48

Out: 68.789 $\pm$ 0.009 χ^2 /NDF:1993152.9/54

All: 68.876 $\pm$ 0.006 χ^2 /NDF: 3678624.9/103

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -366.988 ± 343.687 χ^2/NDF : 7.6/12

Left Out: -284.304 ± 72.732 χ^2/NDF : 55.1/24

Right Out: 539.202 ± 380.677 χ^2/NDF : 8.7/13

Left In: 4.037 ± 75.084 χ^2/NDF : 32.4/22

Left: -144.720 ± 52.241 χ^2/NDF : 95.0/47

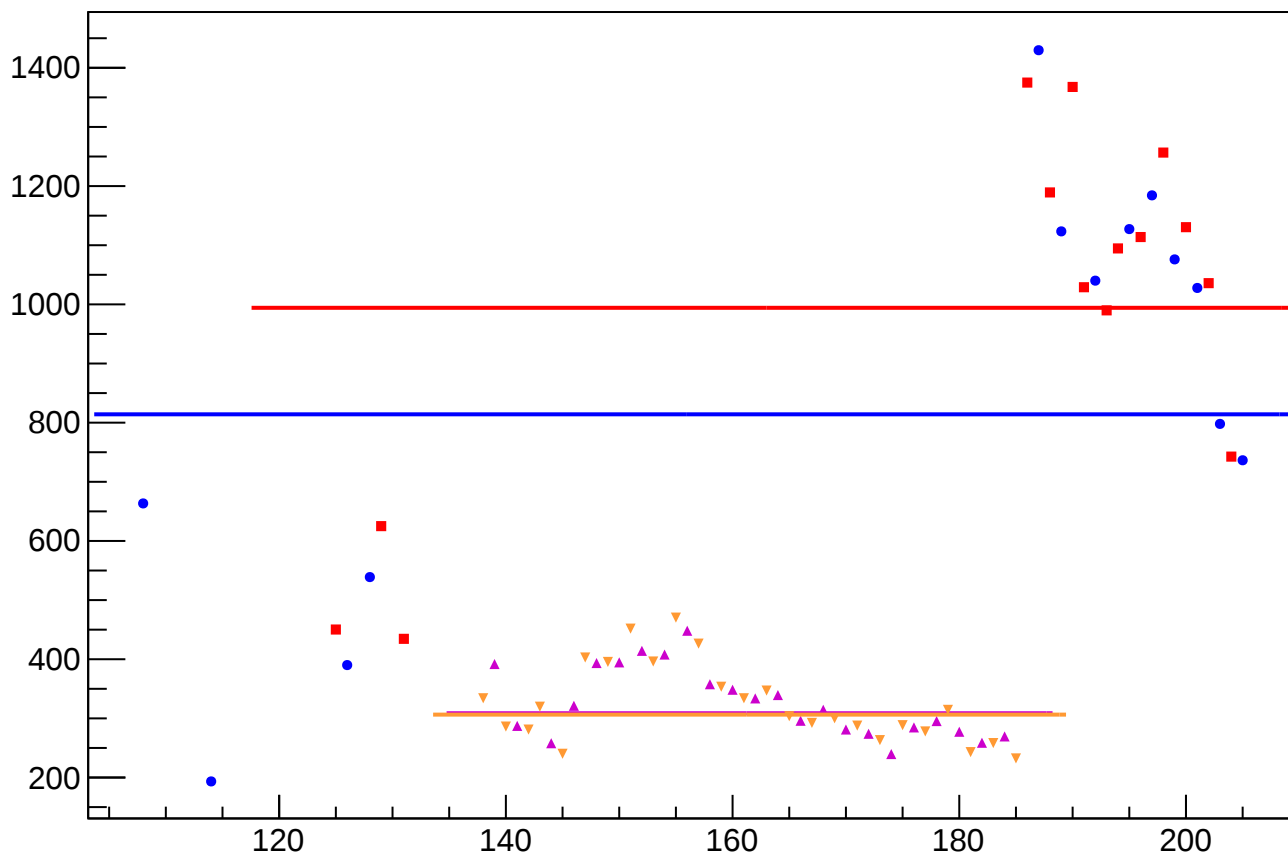
Right: 39.953 ± 255.101 χ^2/NDF : 19.5/26

In: -12.865 ± 73.354 χ^2/NDF : 41.1/35

Out: -255.301 ± 71.440 χ^2/NDF : 68.3/38

All: -137.287 ± 51.179 χ^2/NDF : 115.0/74

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 814.110+/-0.243 χ^2/NDF : 1744733.5/12

Left Out: 306.363+/-0.051 χ^2/NDF :1215669.9/24

Right Out: 994.203+/-0.269 χ^2/NDF : 777758.4/13

Left In: 308.727+/-0.053 χ^2/NDF :1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

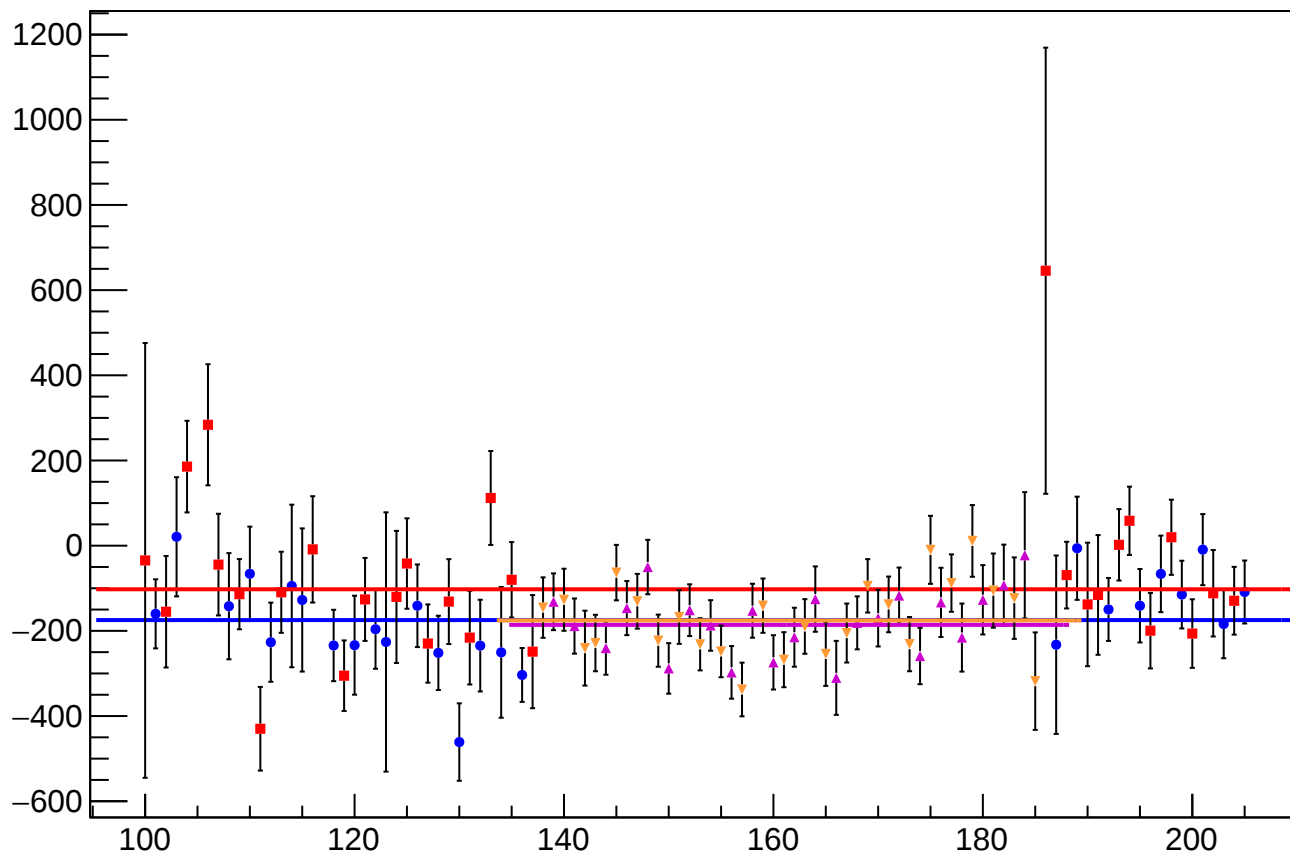
Right: 894.984+/-0.180 χ^2/NDF : 2769099.9/26

In: 331.749+/-0.052 χ^2/NDF :6875267.4/35

Out: 330.588+/-0.051 χ^2/NDF :8293145.2/38

All: 331.153+/-0.036 χ^2/NDF : 15168669.7/74

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -174.717 ± 18.967 $\chi^2/\text{NDF}: 29.0/25$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -102.391 ± 18.661 $\chi^2/\text{NDF}: 54.0/29$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

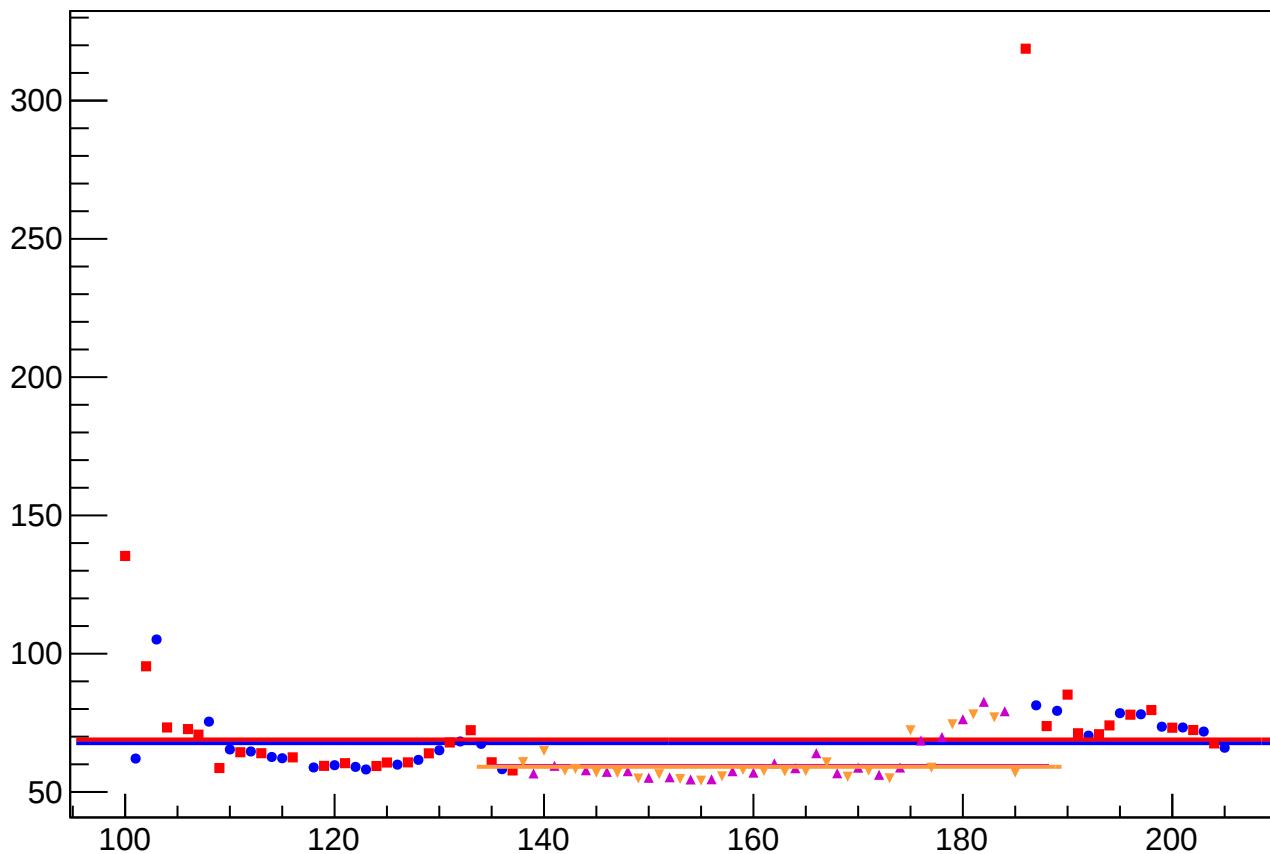
Right: -137.965 ± 13.302 $\chi^2/\text{NDF}: 90.4/55$

In: -181.935 ± 11.426 $\chi^2/\text{NDF}: 52.8/48$

Out: -149.524 ± 11.119 $\chi^2/\text{NDF}: 98.5/54$

All: -165.288 ± 7.969 $\chi^2/\text{NDF}: 155.4/103$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.650 ± 0.013 χ^2/NDF : 401362.3/25

Left Out: 59.099 ± 0.010 χ^2/NDF : 369788.6/24

Right Out: 68.991 ± 0.013 χ^2/NDF : 839531.3/29

Left In: 59.410 ± 0.010 χ^2/NDF : 373052.7/22

Left: 59.250 ± 0.007 χ^2/NDF : 743329.1/47

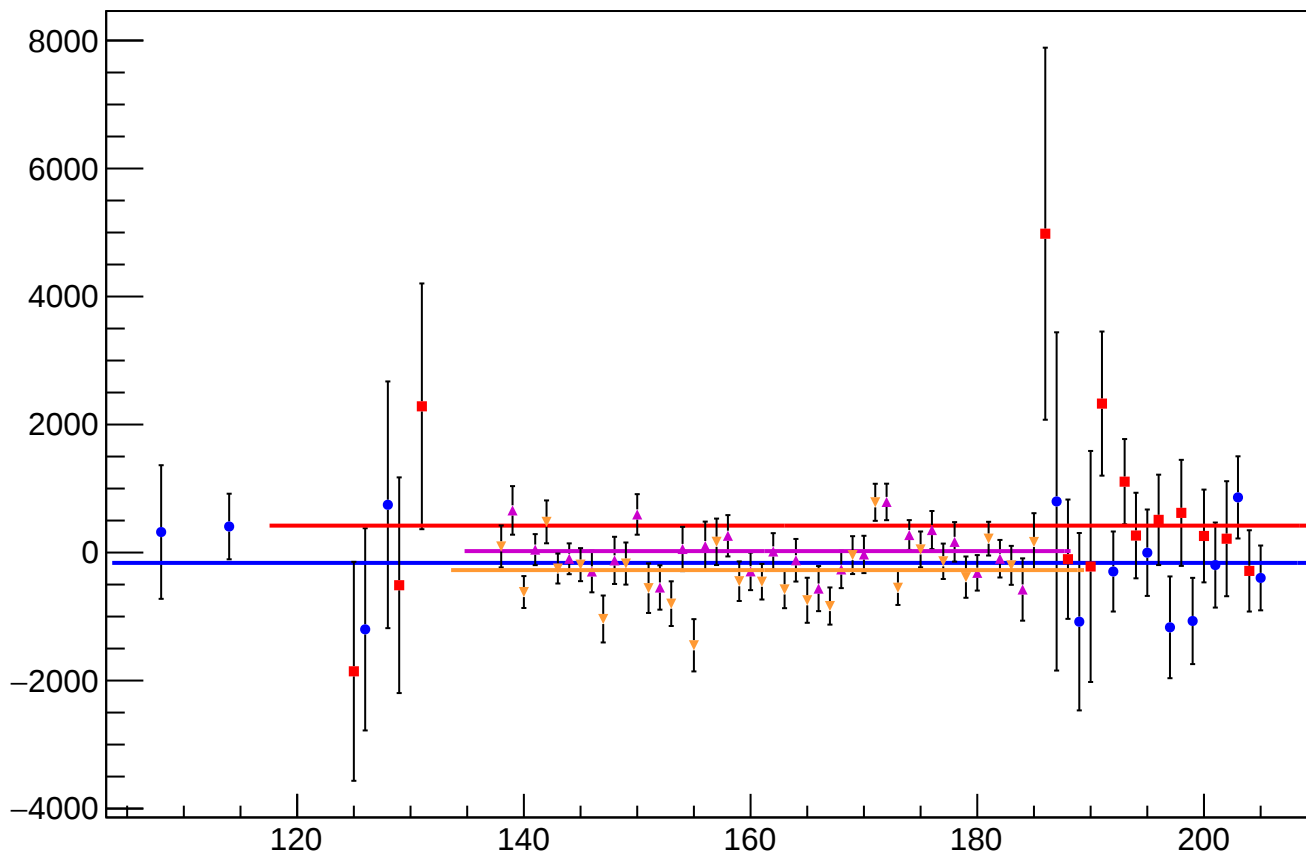
Right: 68.332 ± 0.009 χ^2/NDF : 1245972.8/55

In: 62.401 ± 0.008 χ^2/NDF : 1014887.7/48

Out: 62.611 ± 0.008 χ^2/NDF : 1571762.4/54

All: 62.509 ± 0.006 χ^2/NDF : 2586999.5/103

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -161.672 ± 207.644 χ^2/NDF : 8.9/12

Left Out: -274.091 ± 60.799 χ^2/NDF : 53.9/24

Right Out: 420.655 ± 243.187 χ^2/NDF : 11.3/13

Left In: 22.631 ± 63.643 χ^2/NDF : 28.9/22

Left: -132.507 ± 43.963 χ^2/NDF : 94.2/47

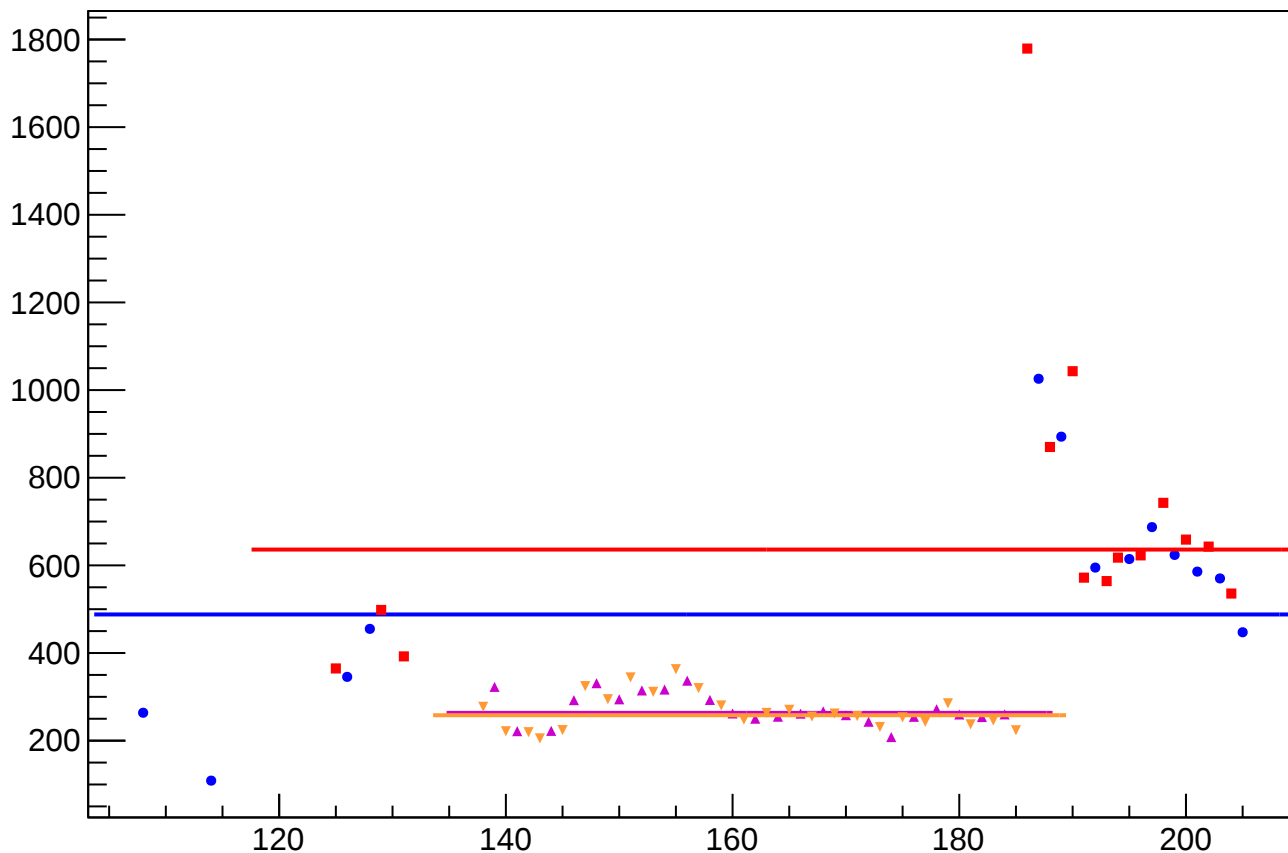
Right: 83.864 ± 157.912 χ^2/NDF : 23.6/26

In: 6.804 ± 60.849 χ^2/NDF : 38.6/35

Out: -233.220 ± 58.984 χ^2/NDF : 72.9/38

All: -116.944 ± 42.352 χ^2/NDF : 119.5/74

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 488.001+/-0.147 χ^2/NDF : 1883887.7/12

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 636.081+/-0.172 χ^2/NDF : 750359.7/13

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

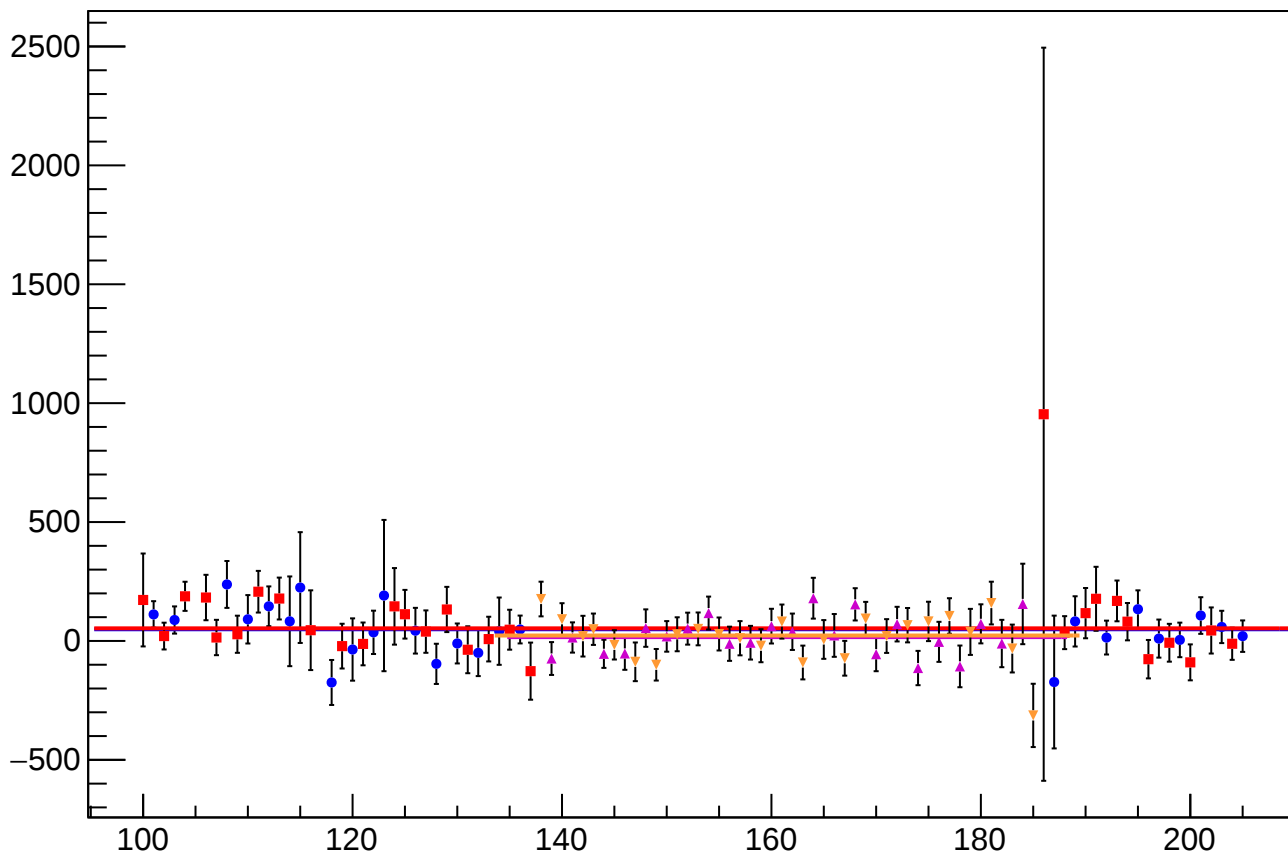
Right: 550.439+/-0.112 χ^2/NDF : 3063127.4/26

In: 282.685+/-0.043 χ^2/NDF : 4608607.2/35

Out: 280.280+/-0.042 χ^2/NDF : 6023972.7/38

All: 281.445+/-0.030 χ^2/NDF : 10634190.8/74

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 49.168+/-16.733 χ^2/NDF : 21.7/25

Left Out: 22.871+/-14.968 χ^2/NDF : 29.0/24

Right Out: 52.988+/-16.107 χ^2/NDF : 30.0/29

Left In: 16.198+/-15.531 χ^2/NDF : 23.3/22

Left: 19.658+/-10.777 χ^2/NDF : 52.4/47

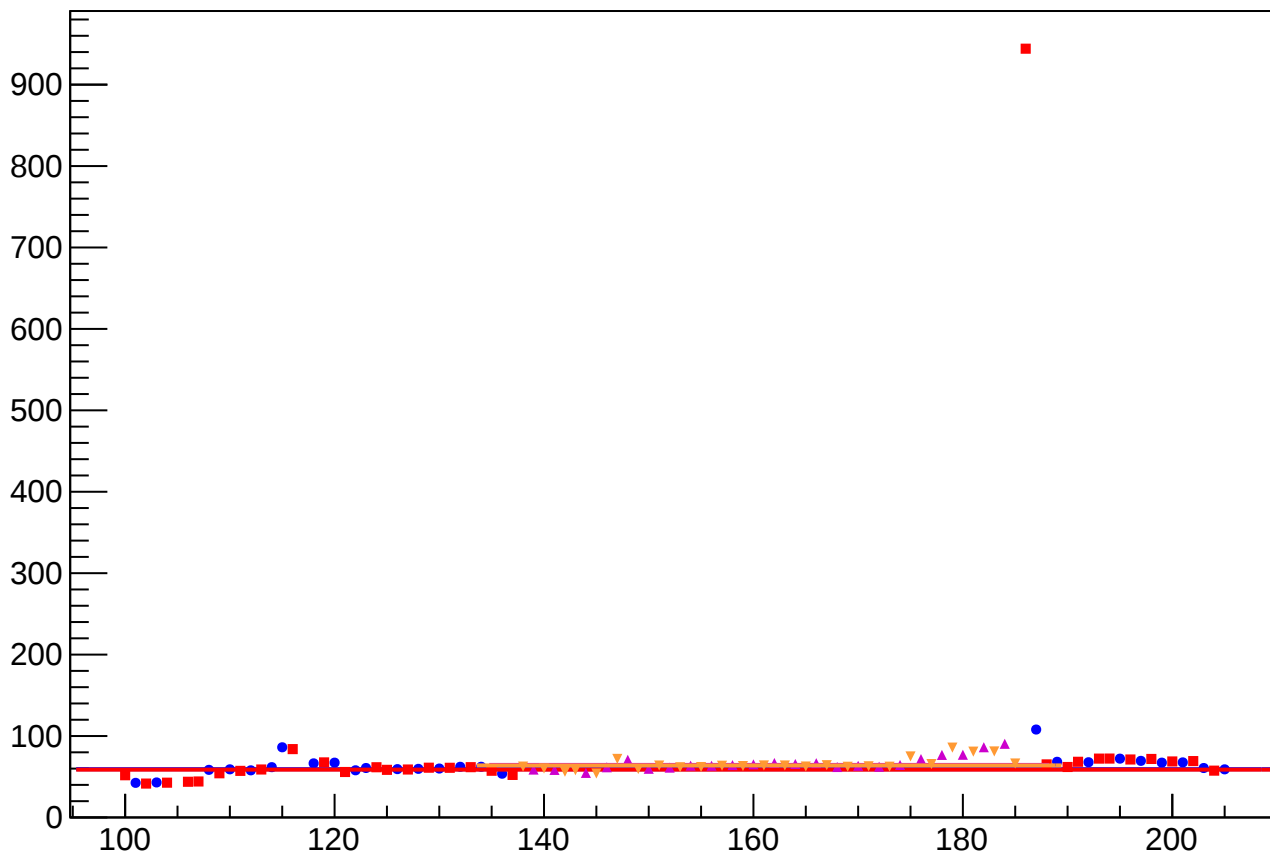
Right: 51.151+/-11.605 χ^2/NDF : 51.7/55

In: 31.456+/-11.383 χ^2/NDF : 47.1/48

Out: 36.827+/-10.965 χ^2/NDF : 60.8/54

All: 34.242+/-7.897 χ^2/NDF : 108.1/103

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.274 $\pm$ 0.012 χ^2 /NDF: 650879.5/25

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 58.728 $\pm$ 0.011 χ^2 /NDF: 1493814.3/29

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

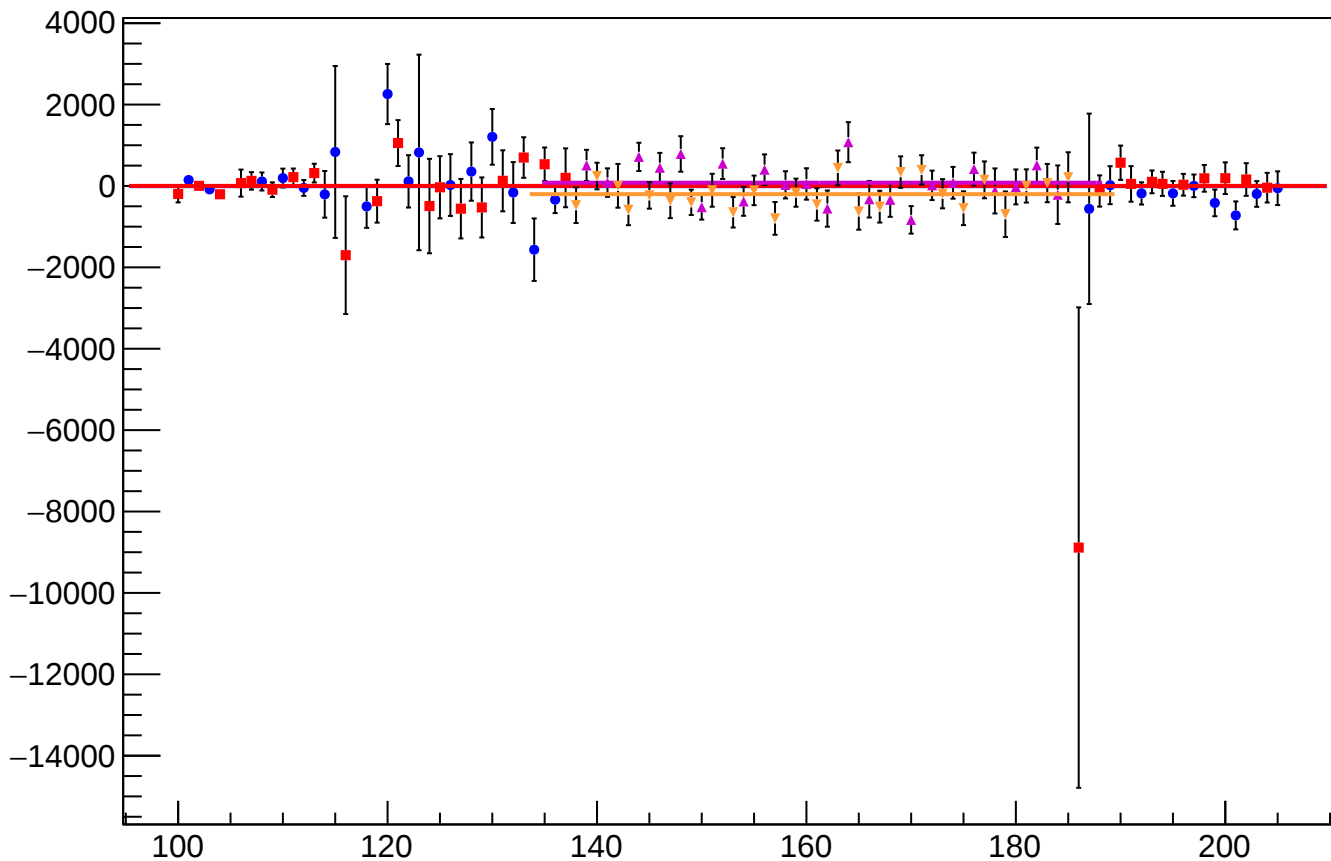
Right: 58.990 $\pm$ 0.008 χ^2 /NDF: 2145800.0/55

In: 62.087 $\pm$ 0.008 χ^2 /NDF: 1126628.9/48

Out: 61.514 $\pm$ 0.008 χ^2 /NDF: 2000741.8/54

All: 61.790 $\pm$ 0.006 χ^2 /NDF: 3130002.4/103

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -4.458 ± 47.055 χ^2/NDF : 31.7/25

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 1.832 ± 47.804 χ^2/NDF : 24.1/29

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

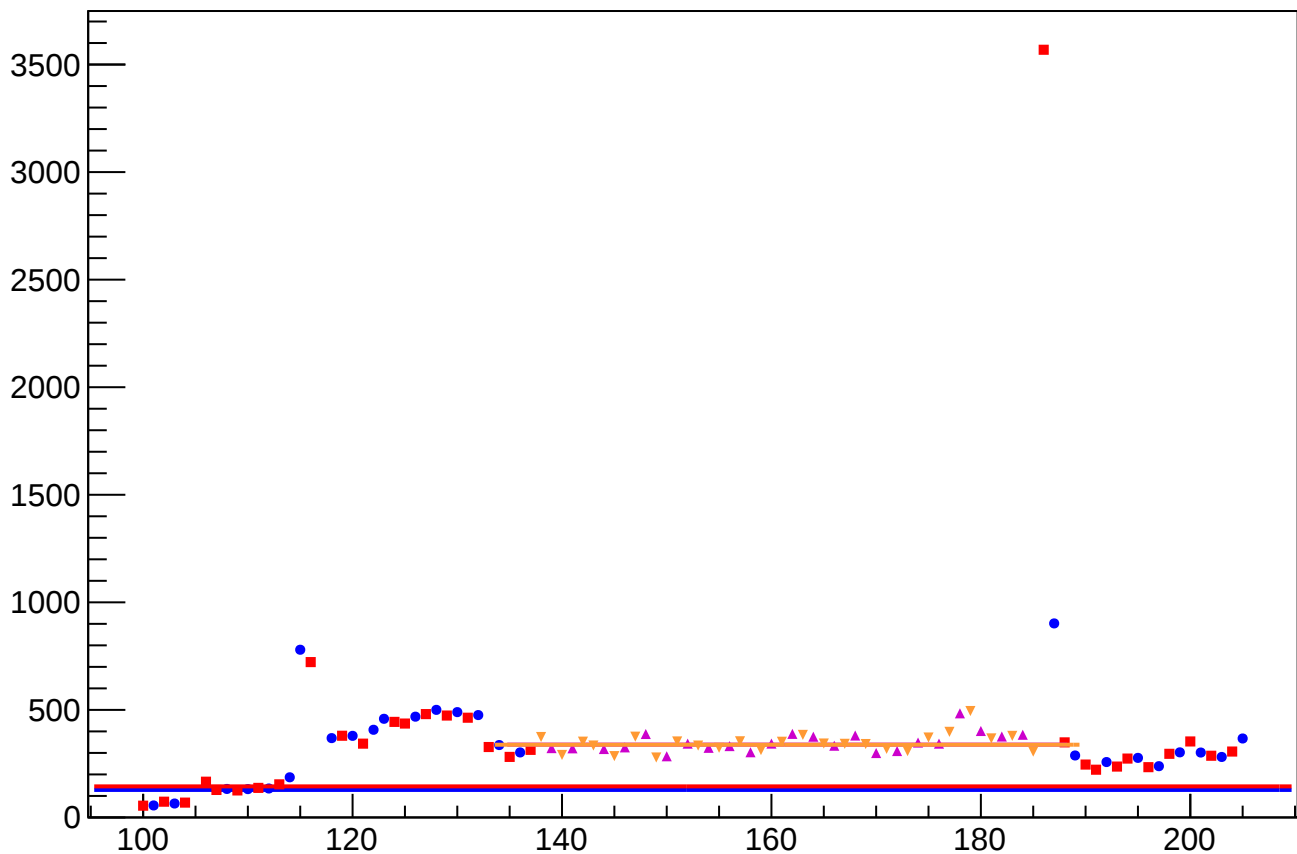
Right: -1.363 ± 33.535 χ^2/NDF : 55.8/55

In: 16.544 ± 40.785 χ^2/NDF : 65.9/48

Out: -52.005 ± 40.975 χ^2/NDF : 48.5/54

All: -17.571 ± 28.906 χ^2/NDF : 115.8/103

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 127.939+/-0.033 χ^2/NDF : 10441485.0/25

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 144.454+/-0.034 χ^2/NDF : 9621651.7/29

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

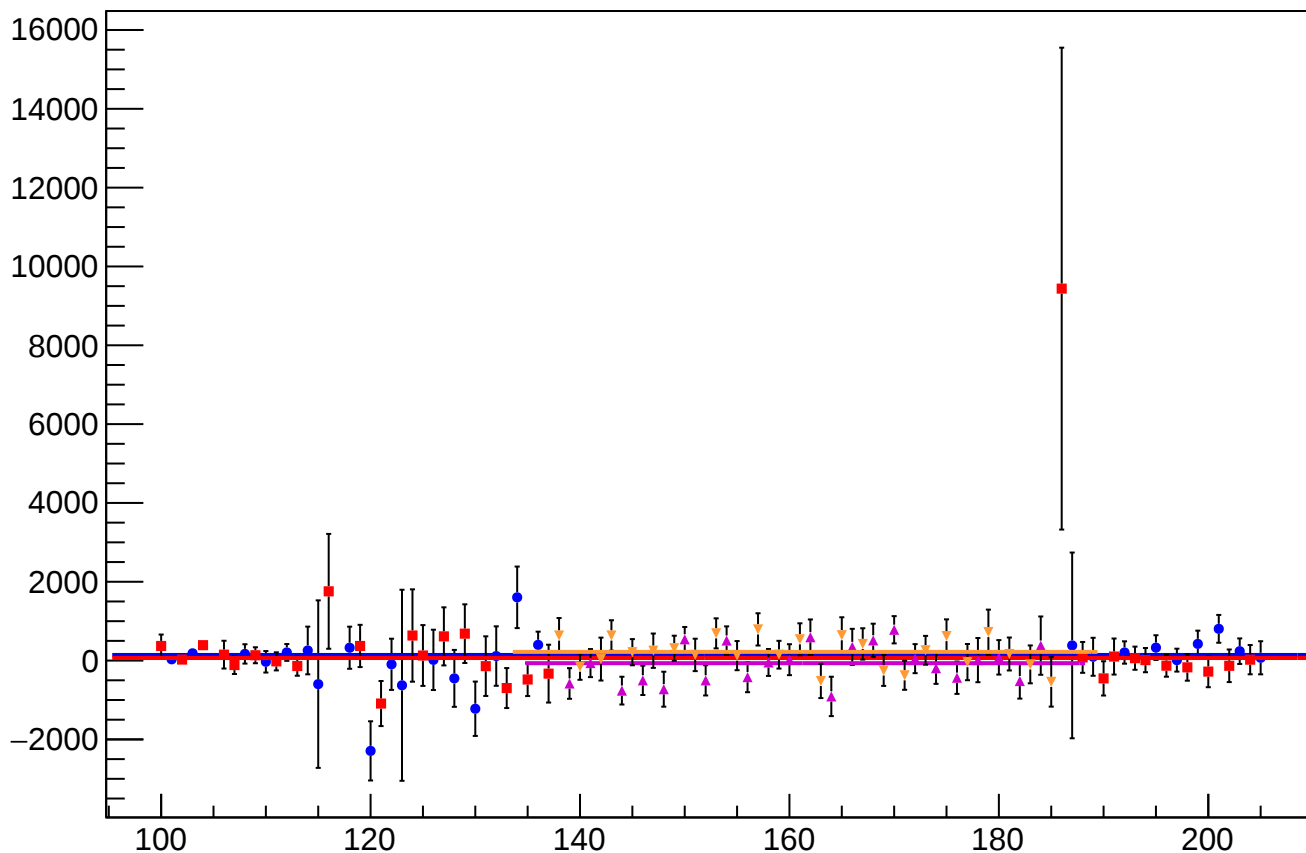
Right: 136.066+/-0.024 χ^2/NDF : 20184371.7/55

In: 180.325+/-0.029 χ^2/NDF : 20845360.1/48

Out: 195.839+/-0.029 χ^2/NDF : 18830190.2/54

All: 188.046+/-0.020 χ^2/NDF : 39819584.2/100

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 142.706 $\pm$ 55.777 χ^2 /NDF: 26.3/25

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 64.989 $\pm$ 53.487 χ^2 /NDF: 27.4/29

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

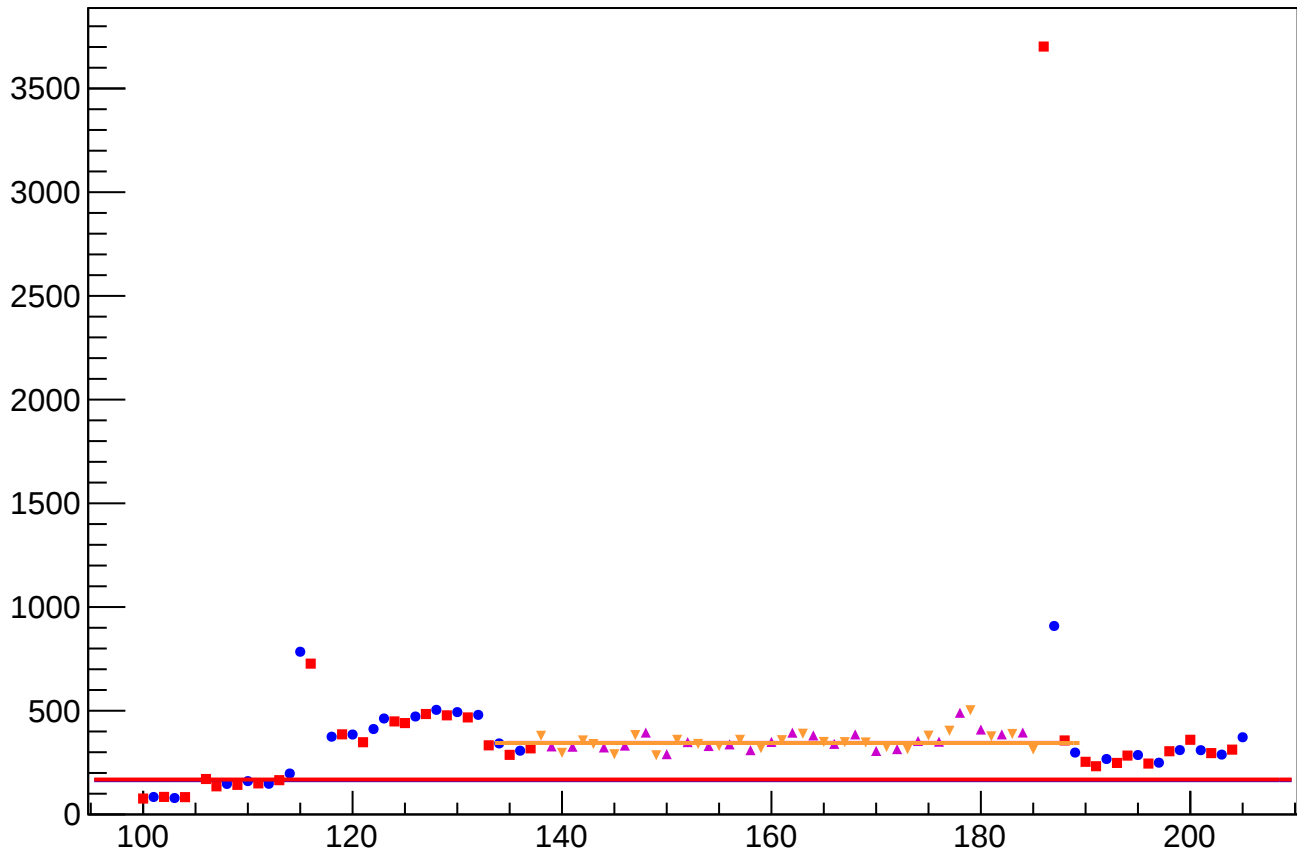
Right: 102.219 $\pm$ 38.605 χ^2 /NDF: 54.8/55

In: 78.270 $\pm$ 46.350 χ^2 /NDF:64.6/48

Out: 112.371 $\pm$ 44.637 χ^2 /NDF:49.7/54

All: 95.962 $\pm$ 32.152 χ^2 /NDF: 114.6/103

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 165.287 $\pm$ 0.039 χ^2 /NDF: 7964521.7/25

Left Out: 344.506 $\pm$ 0.057 χ^2 /NDF: 488323.4/24

Right Out: 168.330 $\pm$ 0.038 χ^2 /NDF: 8120933.2/29

Left In: 345.039 $\pm$ 0.059 χ^2 /NDF: 427381.3/22

Left: 344.765 $\pm$ 0.041 χ^2 /NDF: 915746.8/47

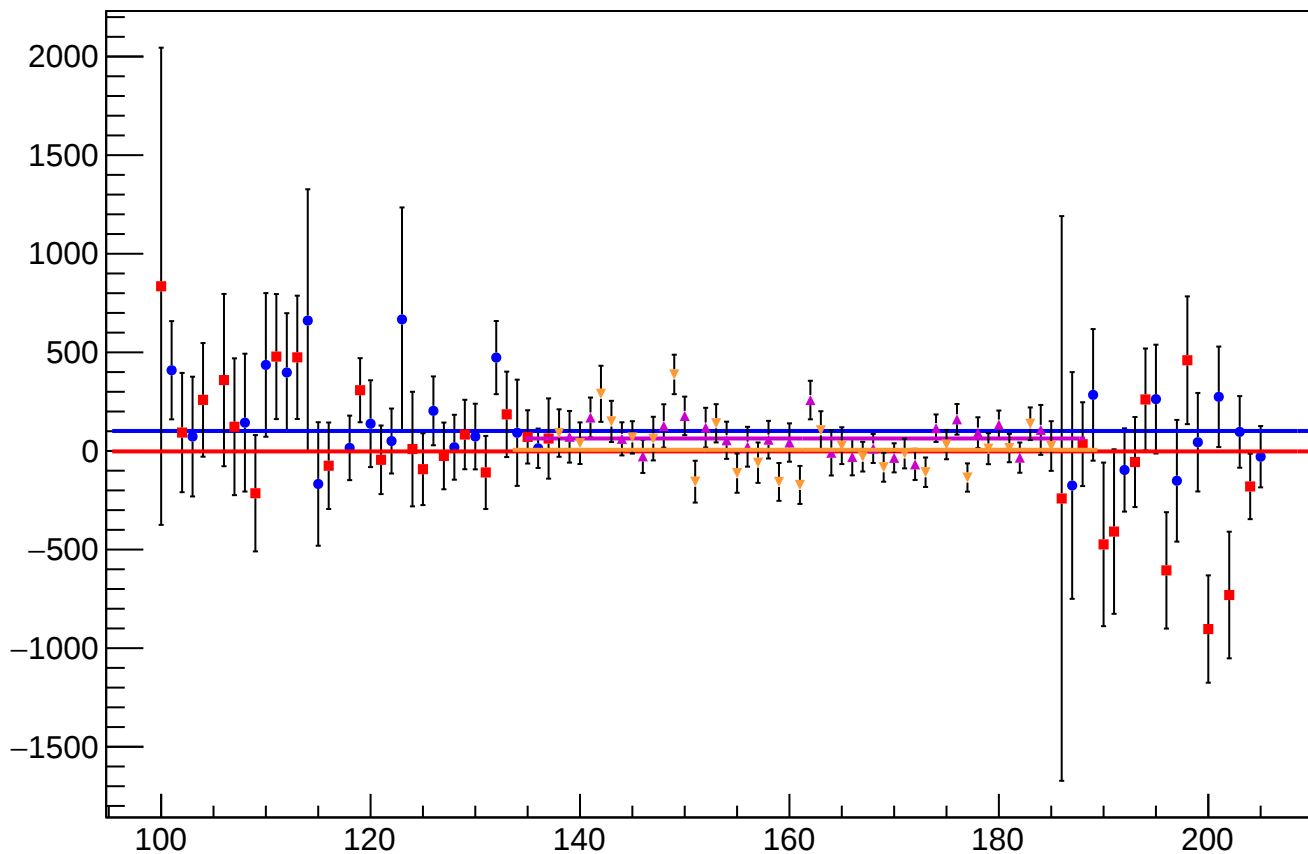
Right: 166.872 $\pm$ 0.027 χ^2 /NDF: 16088556.5/55

In: 220.914 $\pm$ 0.033 χ^2 /NDF: 14819933.4/48

Out: 221.807 $\pm$ 0.032 χ^2 /NDF: 15195674.5/54

All: 221.377 $\pm$ 0.023 χ^2 /NDF: 30015992.9/100

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 101.339 $\pm$ 41.726 χ^2 /NDF: 15.3/25

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: -2.301 $\pm$ 42.715 χ^2 /NDF: 40.0/29

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

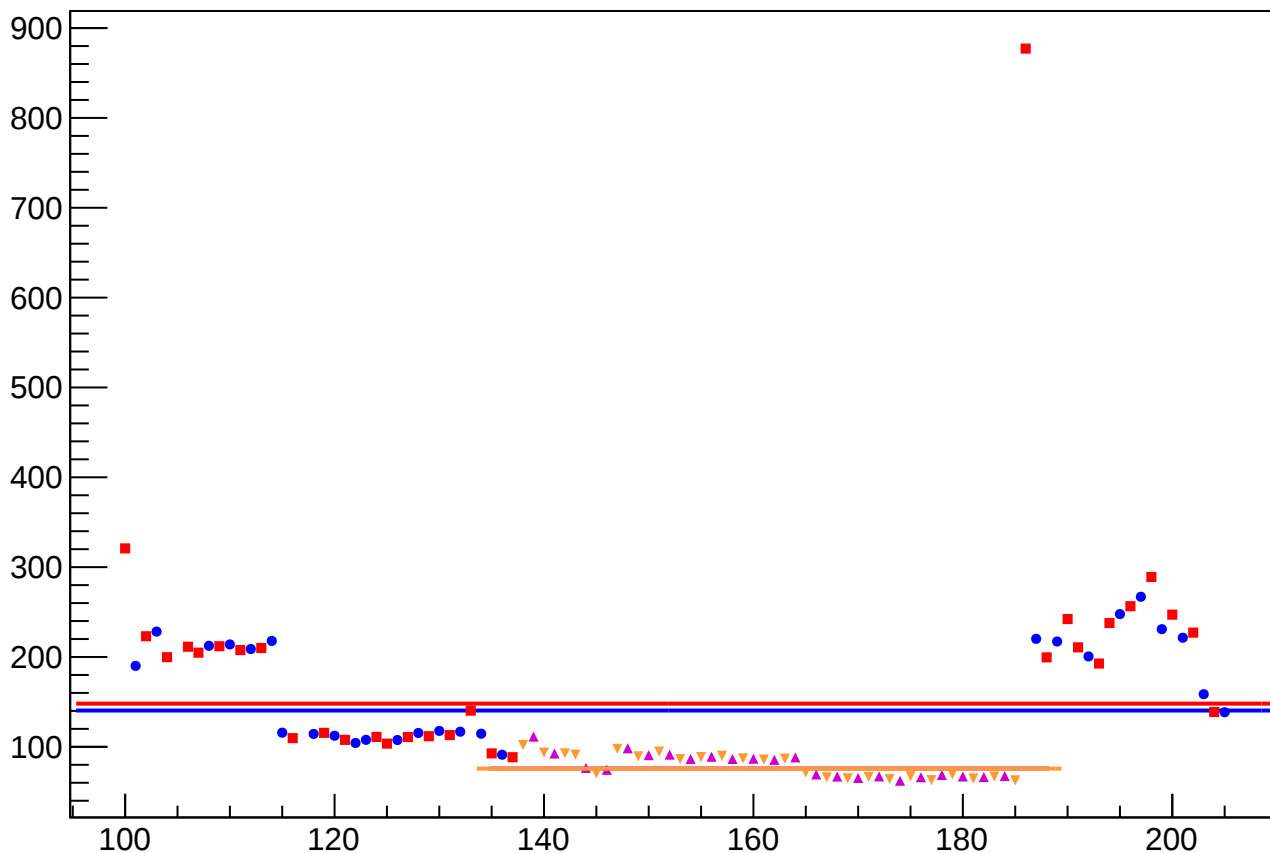
Right: 50.734 $\pm$ 29.848 χ^2 /NDF: 58.3/55

In: 69.501 $\pm$ 16.871 χ^2 /NDF:35.8/48

Out: 4.775 $\pm$ 16.517 χ^2 /NDF:86.1/54

All: 36.451 $\pm$ 11.803 χ^2 /NDF: 129.4/103

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.409 $\pm$ 0.030 χ^2 /NDF: 2864344.5/25

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 148.097 $\pm$ 0.030 χ^2 /NDF: 3874053.2/29

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

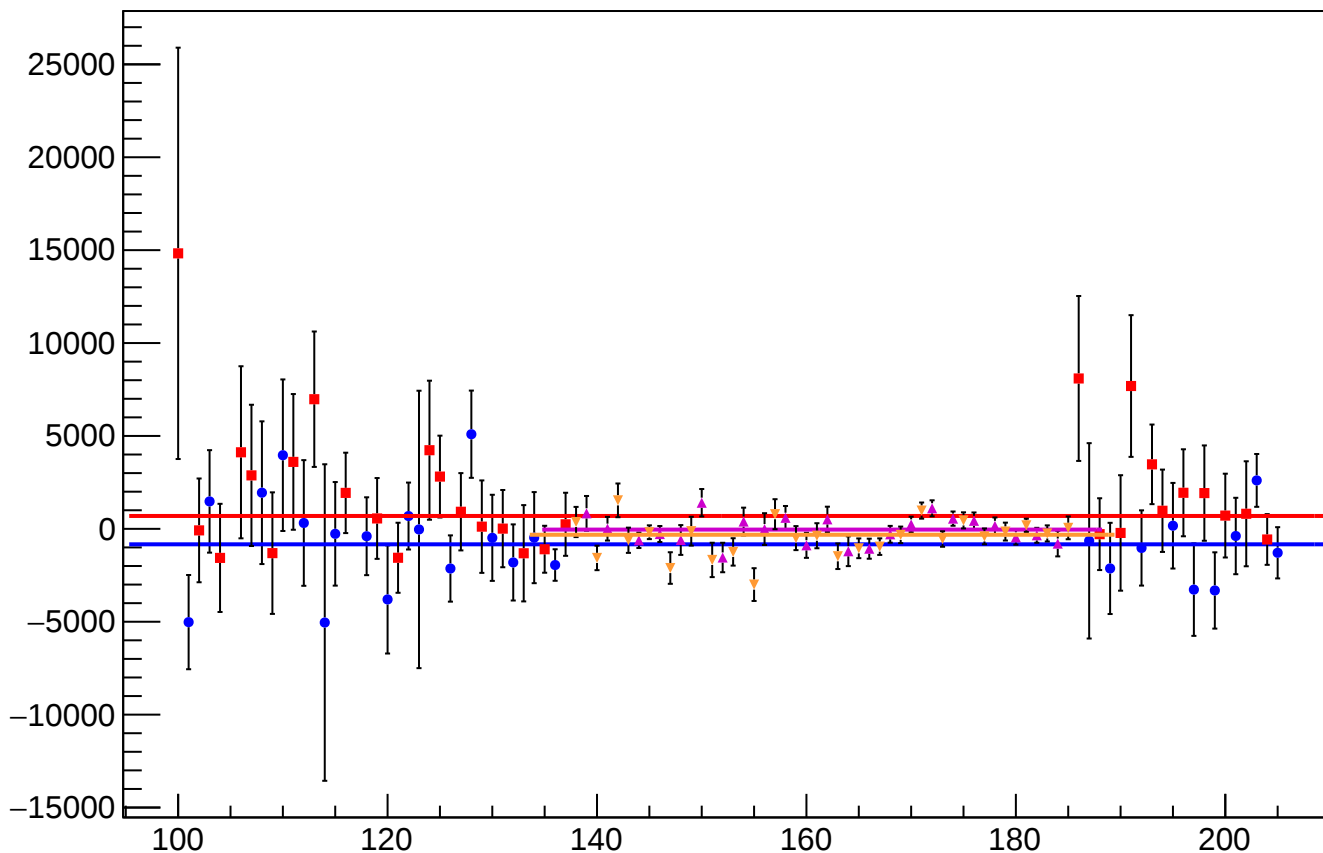
Right: 144.163 $\pm$ 0.021 χ^2 /NDF: 6771553.7/55

In: 86.455 $\pm$ 0.012 χ^2 /NDF:7693392.9/48

Out: 86.561 $\pm$ 0.012 χ^2 /NDF:9692332.2/54

All: 86.509 $\pm$ 0.008 χ^2 /NDF: 17385765.6/103

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -832.635+/-405.422 χ^2/NDF : 25.4/25

Left Out: -318.064+/-108.014 χ^2/NDF : 50.0/24

Right Out: 693.101+/-428.345 χ^2/NDF : 23.2/29

Left In: -40.473+/-110.252 χ^2/NDF : 34.7/22

Left: -182.115+/-77.156 χ^2/NDF : 88.0/47

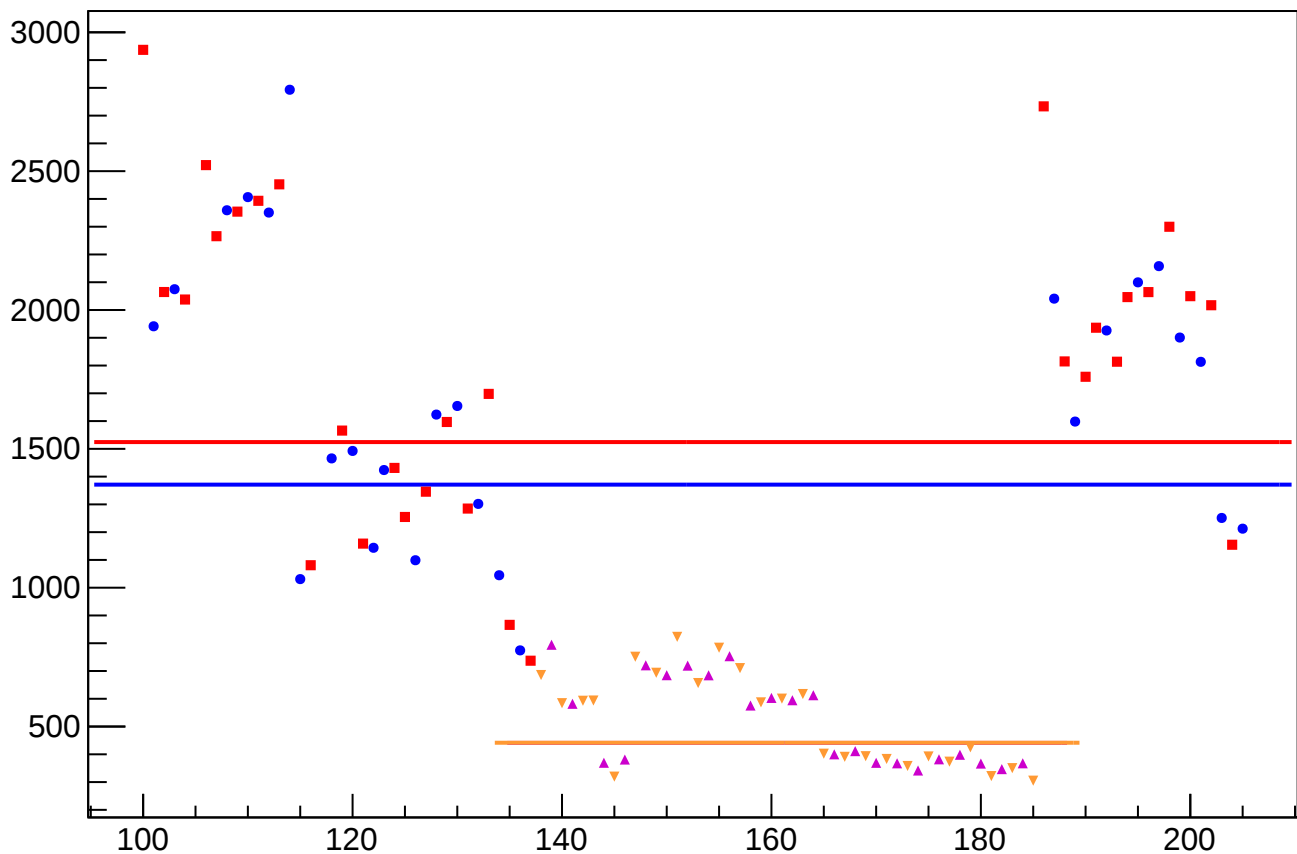
Right: -111.683+/-294.447 χ^2/NDF : 55.2/55

In: -95.022+/-106.389 χ^2/NDF : 63.6/48

Out: -257.611+/-104.735 χ^2/NDF : 78.4/54

All: -177.590+/-74.637 χ^2/NDF : 143.3/103

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1371.133+/-0.287 χ^2/NDF : 2779285.5/25

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1524.401+/-0.303 χ^2/NDF : 2907862.9/29

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

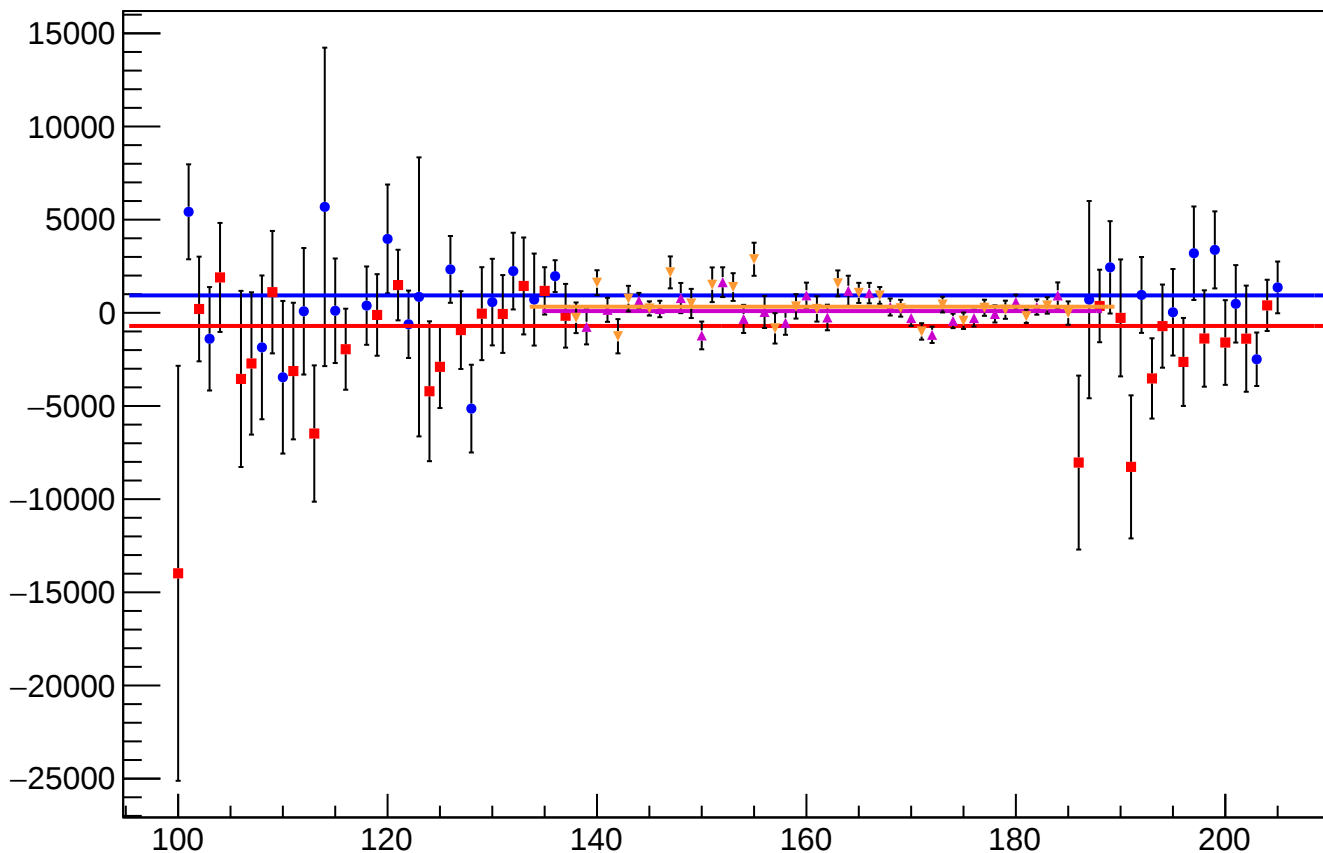
Right: 1443.556+/-0.208 χ^2/NDF : 5822214.8/55

In: 505.058+/-0.075 χ^2/NDF : 15178246.3/48

Out: 506.415+/-0.074 χ^2/NDF : 18091322.9/54

All: 505.748+/-0.053 χ^2/NDF : 33269734.5/100

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 934.569 $\pm$ 408.076 χ^2 /NDF: 25.6/25

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF:47.7/24

Right Out: -704.706 $\pm$ 431.121 χ^2 /NDF: 22.9/29

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

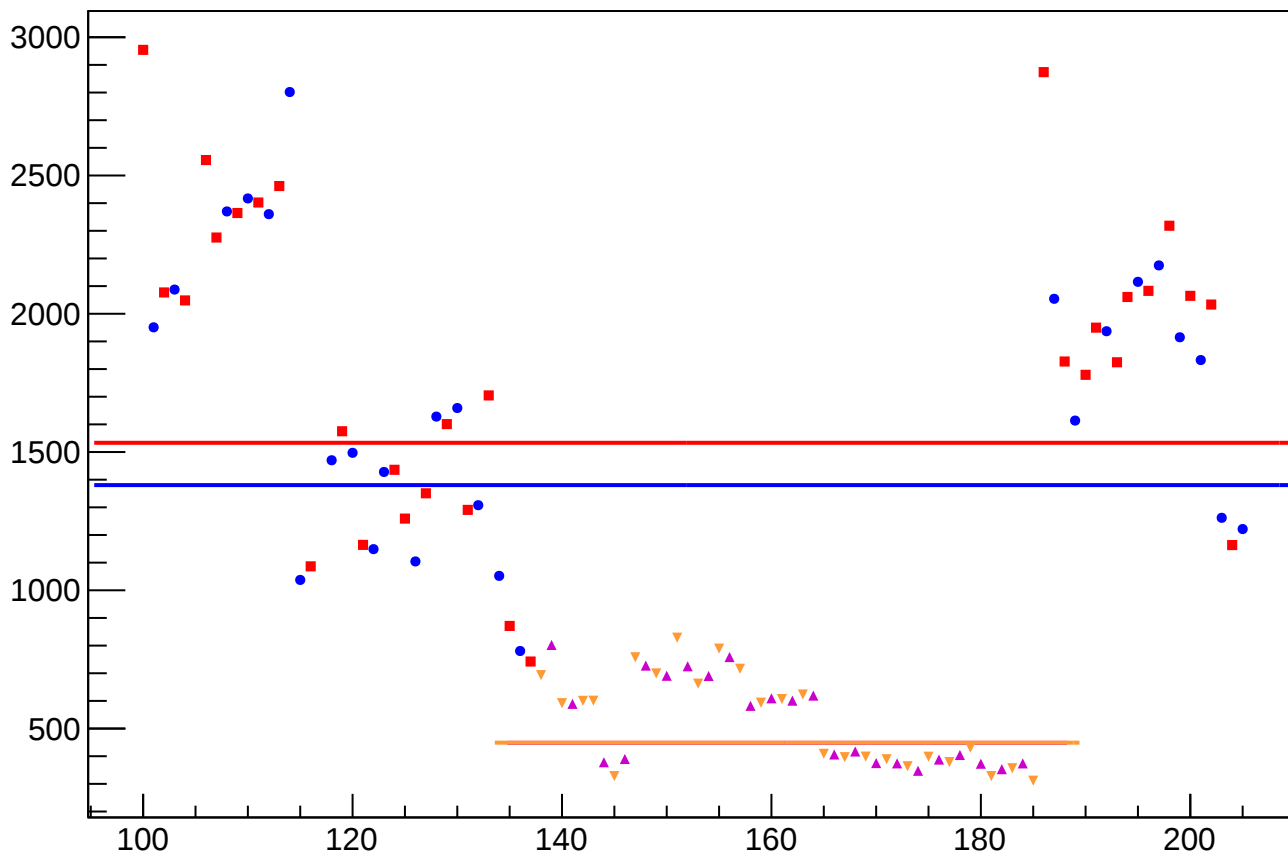
Right: 159.914 $\pm$ 296.366 χ^2 /NDF: 56.1/55

In: 152.202 $\pm$ 107.970 χ^2 /NDF:62.9/48

Out: 265.799 $\pm$ 106.283 χ^2 /NDF:76.0/54

All: 209.894 $\pm$ 75.743 χ^2 /NDF: 139.4/103

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1380.402 $\pm$ 0.289 χ^2 /NDF: 2771110.6/25

Left Out: 449.016 $\pm$ 0.078 χ^2 /NDF: 3090476.2/24

Right Out: 1533.457 $\pm$ 0.305 χ^2 /NDF: 2927750.4/29

Left In: 448.307 $\pm$ 0.079 χ^2 /NDF: 2537376.0/22

Left: 448.669 $\pm$ 0.055 χ^2 /NDF: 5627893.2/47

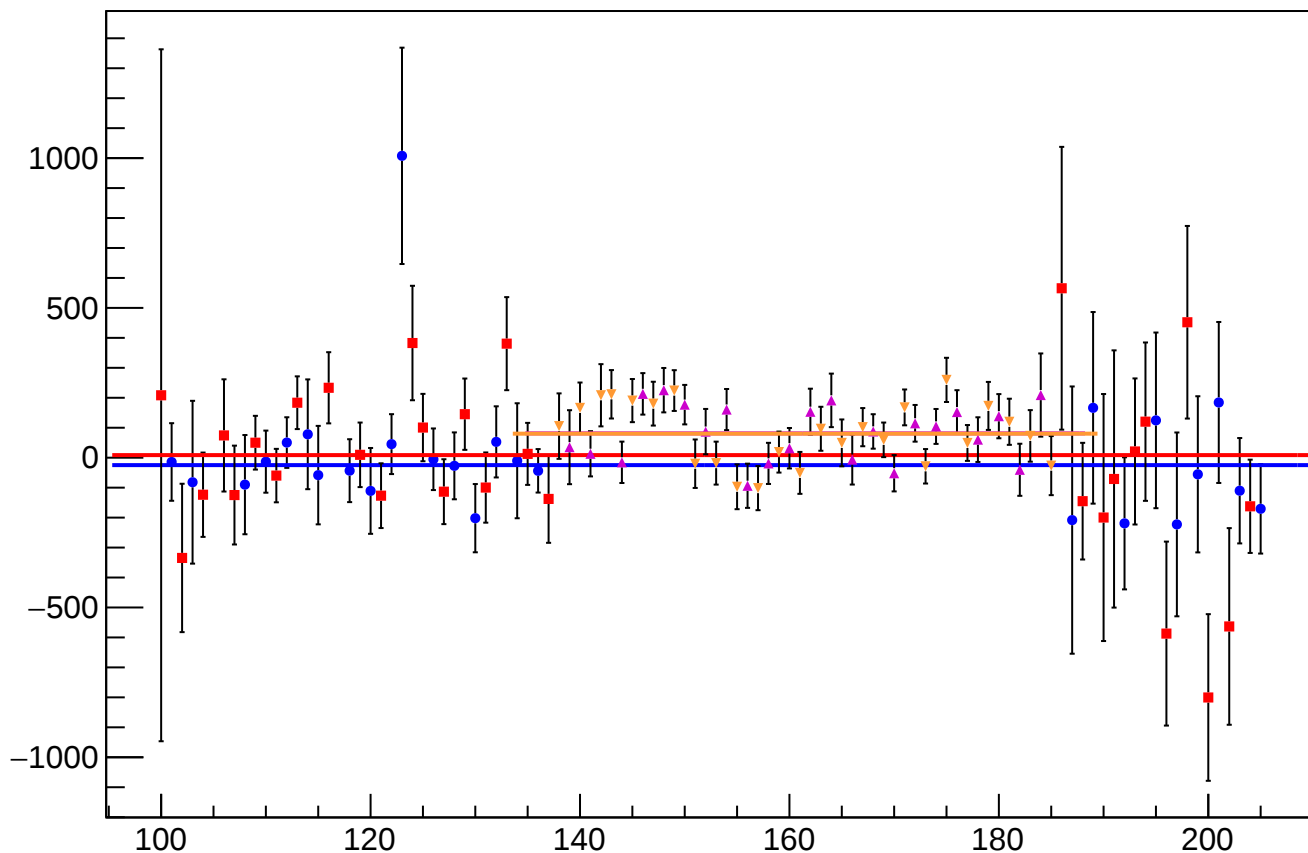
Right: 1452.730 $\pm$ 0.210 χ^2 /NDF: 5831814.2/55

In: 513.557 $\pm$ 0.076 χ^2 /NDF: 15012457.3/48

Out: 514.924 $\pm$ 0.075 χ^2 /NDF: 17903571.4/54

All: 514.252 $\pm$ 0.054 χ^2 /NDF: 32916191.5/10

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -24.782 ± 27.115 $\chi^2/\text{NDF}: 17.2/25$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 8.619 ± 26.462 $\chi^2/\text{NDF}: 49.0/29$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

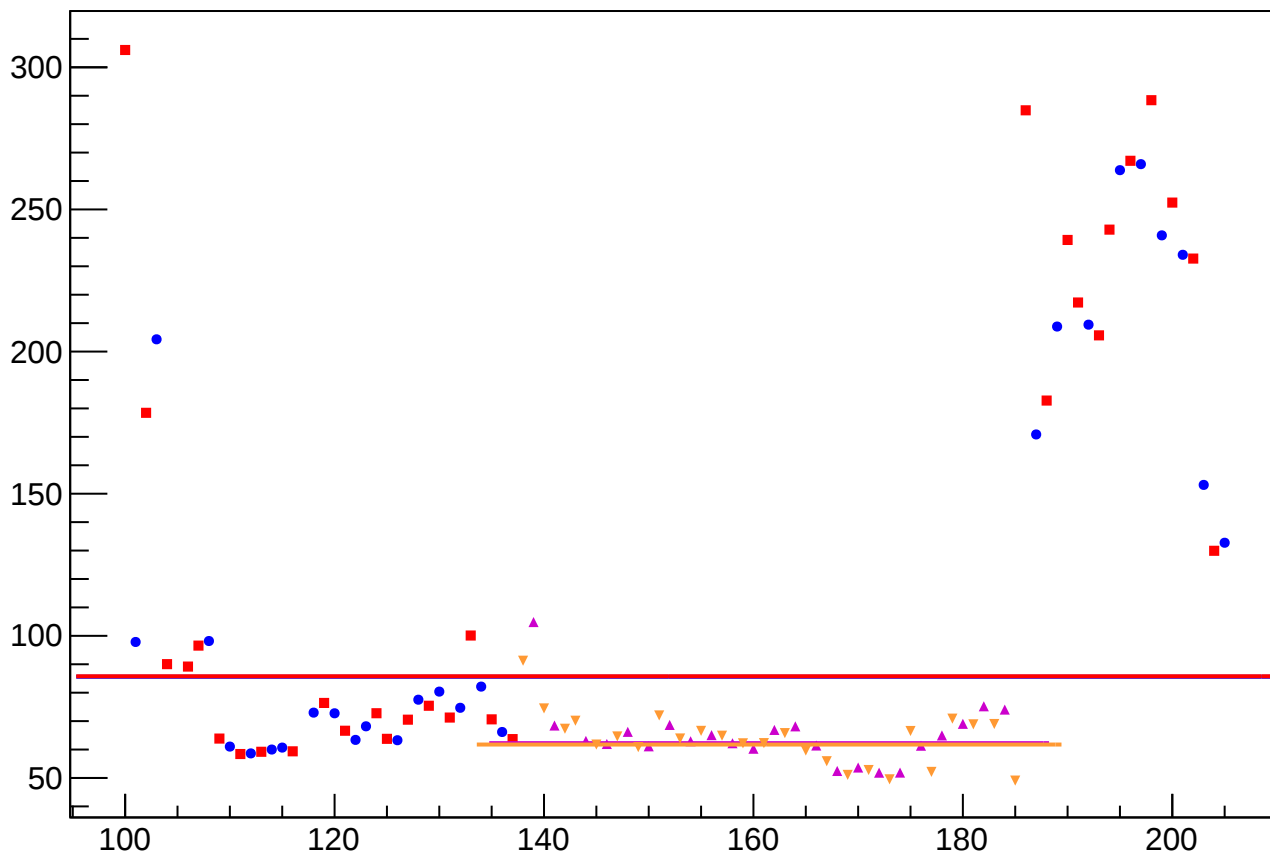
Right: -7.675 ± 18.938 $\chi^2/\text{NDF}: 67.0/55$

In: 56.066 ± 13.196 $\chi^2/\text{NDF}: 64.1/48$

Out: 63.486 ± 12.778 $\chi^2/\text{NDF}: 103.2/54$

All: 59.895 ± 9.180 $\chi^2/\text{NDF}: 167.5/103$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 85.609 $\pm$ 0.019 χ^2 /NDF: 5475644.0/25

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 85.775 $\pm$ 0.019 χ^2 /NDF: 6586874.1/29

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

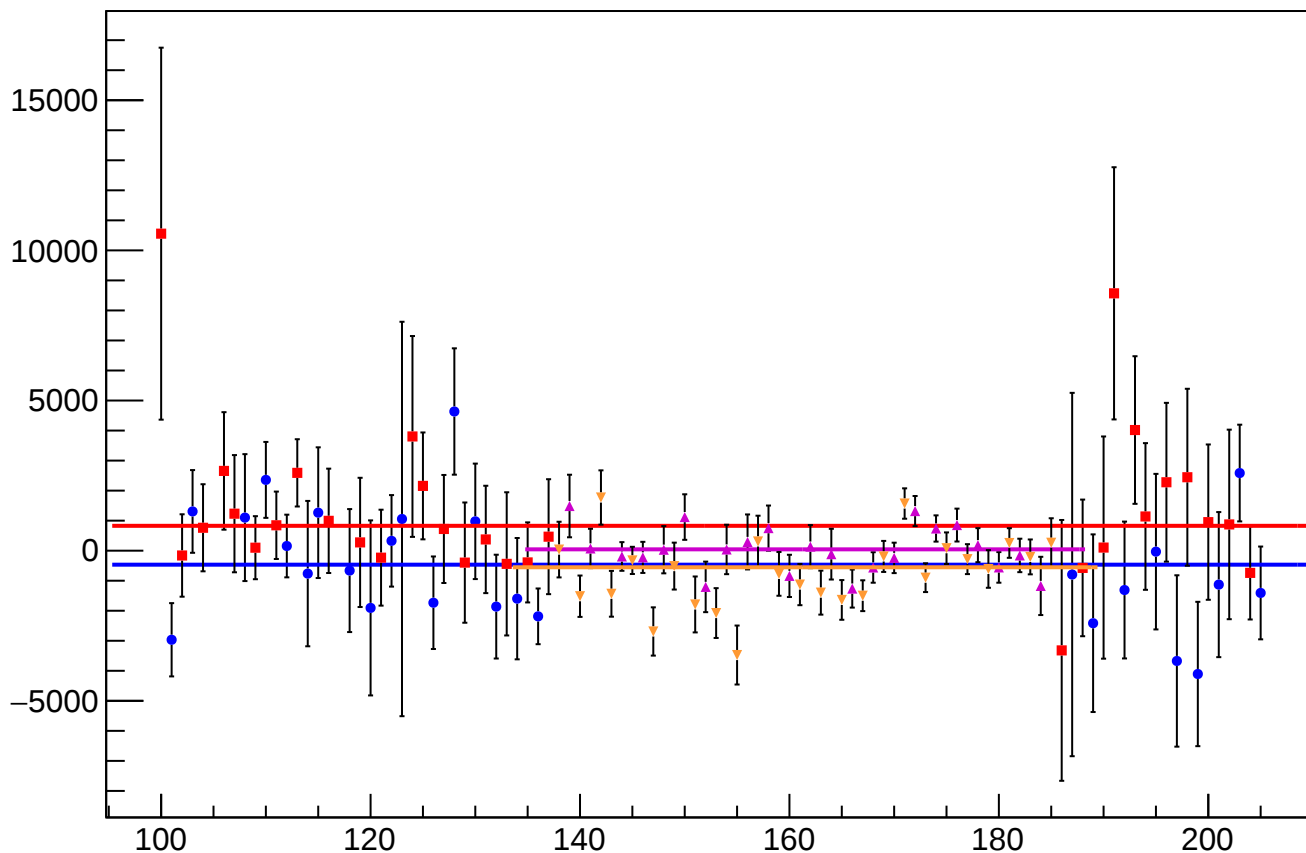
Right: 85.694 $\pm$ 0.013 χ^2 /NDF: 12062556.4/55

In: 67.782 $\pm$ 0.009 χ^2 /NDF: 7199492.6/48

Out: 67.361 $\pm$ 0.009 χ^2 /NDF: 8495400.3/54

All: 67.565 $\pm$ 0.006 χ^2 /NDF: 15695947.8/103

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -466.166+/-341.530 χ^2/NDF : 32.7/25

Left Out: -552.511+/-126.981 χ^2/NDF : 65.3/24

Right Out: 827.943+/-334.904 χ^2/NDF : 18.4/29

Left In: 44.578+/-129.095 χ^2/NDF : 29.6/22

Left: -258.894+/-90.527 χ^2/NDF : 105.7/47

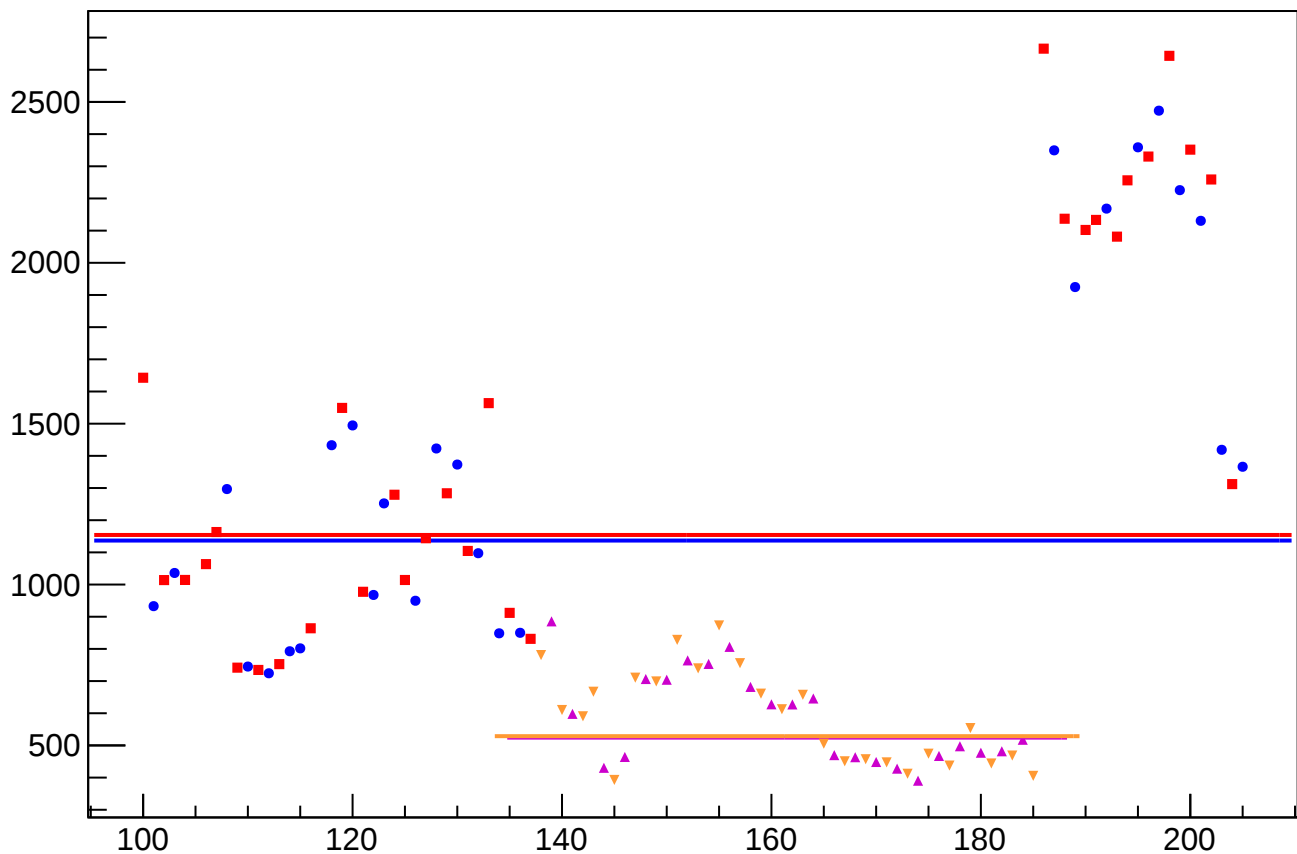
Right: 193.563+/-239.121 χ^2/NDF : 58.4/55

In: -19.272+/-120.756 χ^2/NDF : 64.2/48

Out: -379.001+/-118.733 χ^2/NDF : 98.5/54

All: -202.175+/-84.663 χ^2/NDF : 167.3/103

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1136.740+/-0.241 χ^2/NDF : 3467777.3/25

Left Out: 528.736+/-0.090 χ^2/NDF :1983697.7/24

Right Out: 1154.124+/-0.237 χ^2/NDF : 4405537.6/29

Left In: 524.268+/-0.091 χ^2/NDF :1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

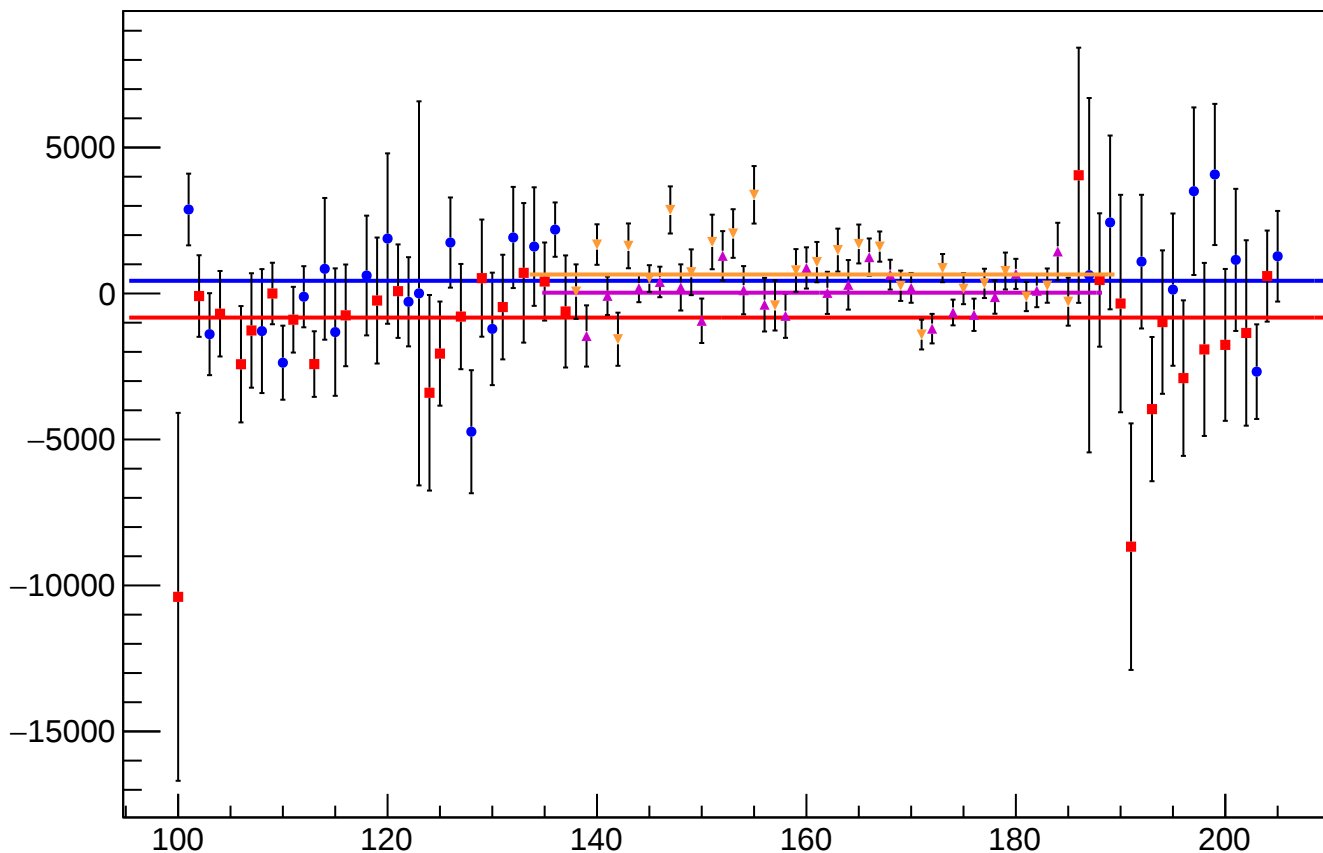
Right: 1145.602+/-0.169 χ^2/NDF : 7875956.5/55

In: 600.836+/-0.085 χ^2/NDF :10811934.8/48

Out: 607.341+/-0.084 χ^2/NDF :12486755.6/54

All: 604.143+/-0.060 χ^2/NDF : 23301641.3/100

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 434.750+/-343.173 χ^2/NDF : 32.7/25

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -824.996+/-336.637 χ^2/NDF : 17.5/29

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

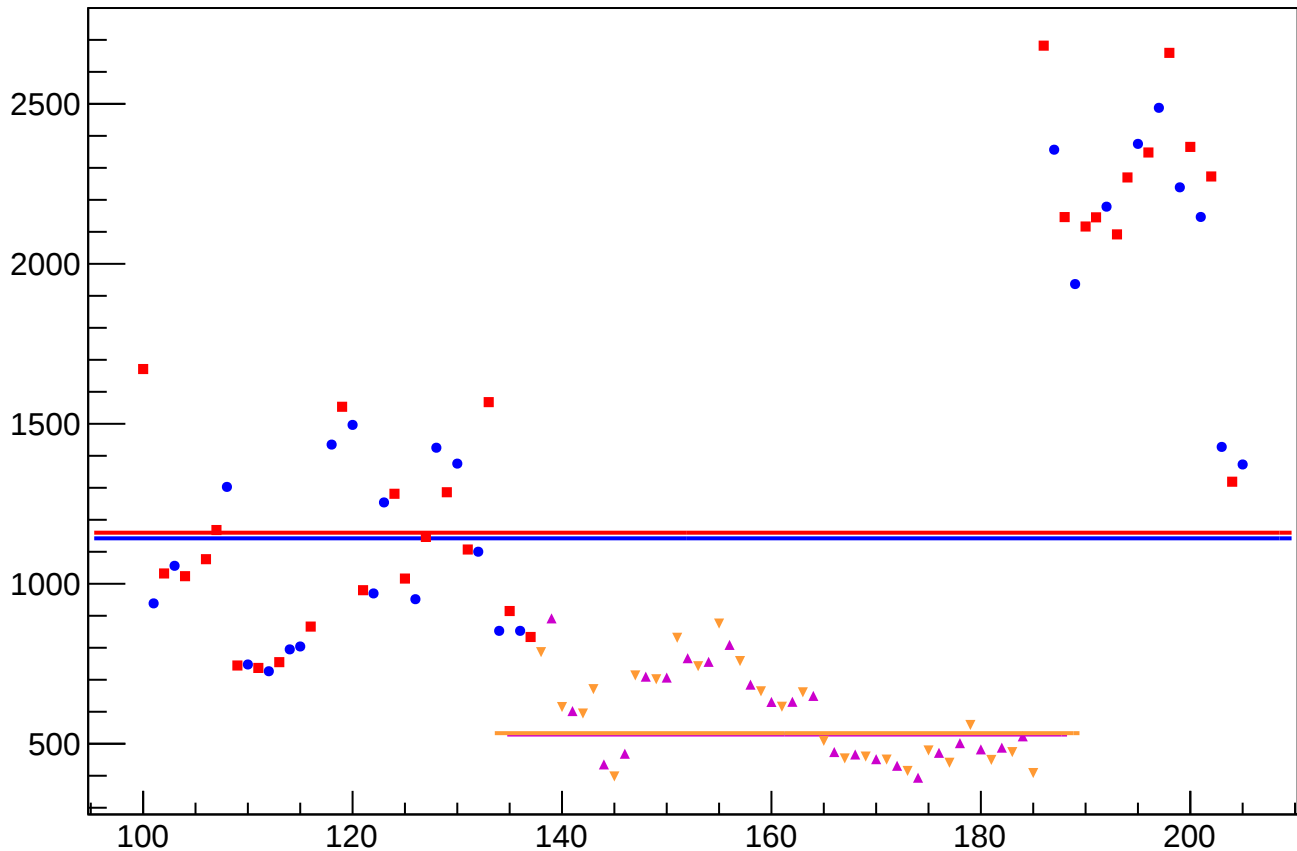
Right: -207.233+/-240.316 χ^2/NDF : 57.1/55

In: 78.680+/-121.673 χ^2/NDF : 62.4/48

Out: 465.149+/-119.611 χ^2/NDF : 95.4/54

All: 275.217+/-85.298 χ^2/NDF : 163.0/103

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1142.012 $\pm$ 0.243 χ^2 /NDF: 3475958.6/25

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF:1951536.4/24

Right Out: 1159.664 $\pm$ 0.238 χ^2 /NDF: 4415866.4/29

Left In: 528.694 $\pm$ 0.092 χ^2 /NDF:1688511.2/22

Left: 530.914 $\pm$ 0.065 χ^2 /NDF: 3641192.3/47

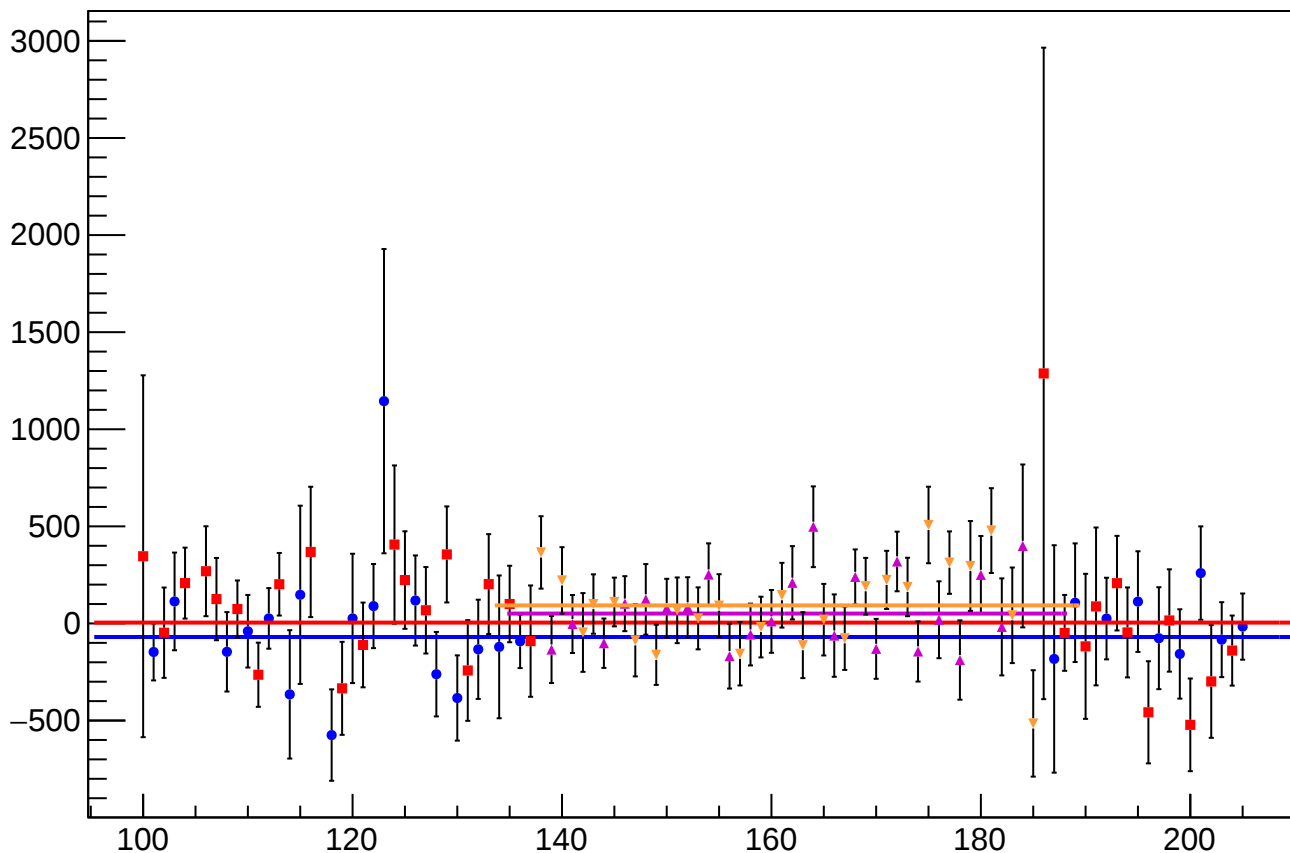
Right: 1151.008 $\pm$ 0.170 χ^2 /NDF: 7894521.8/55

In: 605.793 $\pm$ 0.086 χ^2 /NDF:10749587.9/48

Out: 612.167 $\pm$ 0.085 χ^2 /NDF:12421950.1/54

All: 609.035 $\pm$ 0.060 χ^2 /NDF: 23174329.1/10

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -69.820 ± 43.901 χ^2/NDF : 16.8/25

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: 4.433 ± 42.644 χ^2/NDF : 27.8/29

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

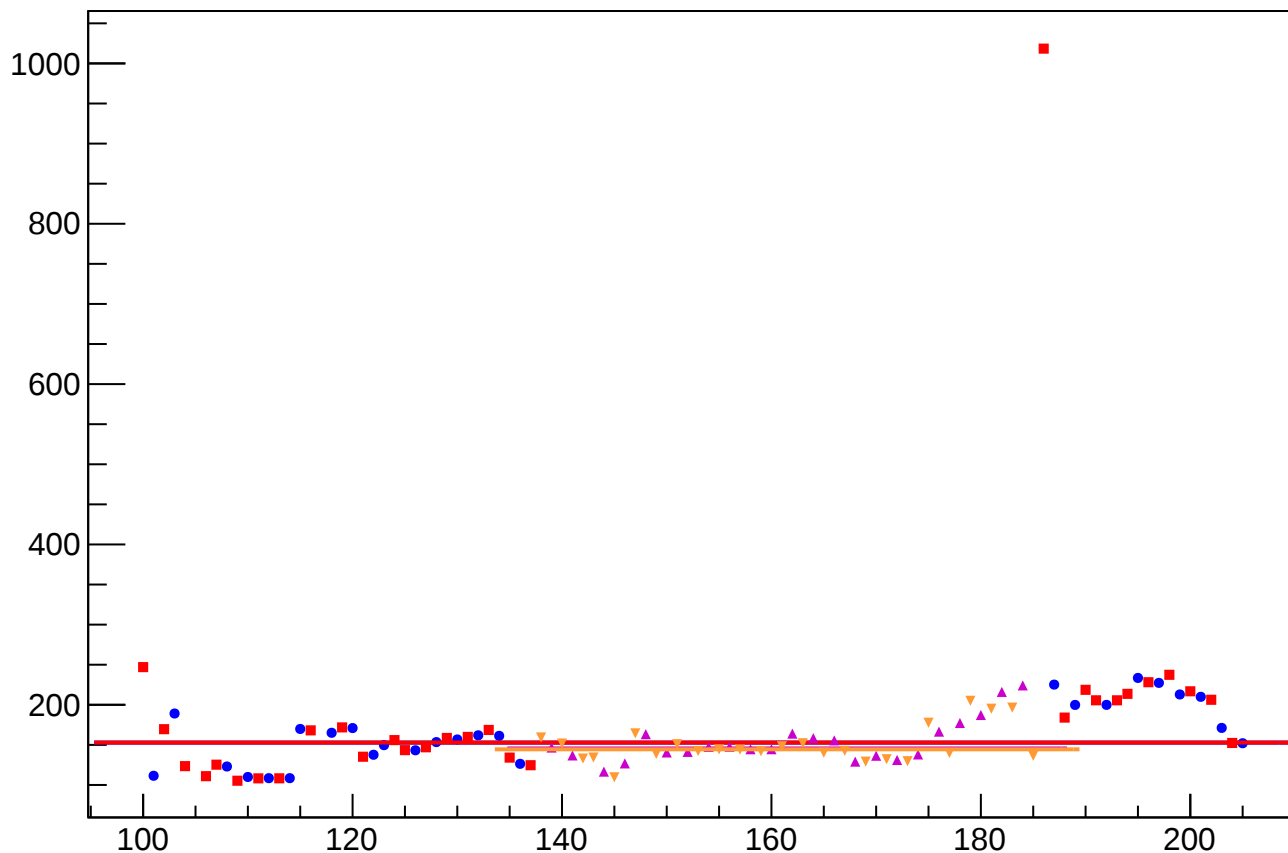
Right: -31.615 ± 30.589 χ^2/NDF : 46.0/55

In: 3.528 ± 27.500 χ^2/NDF : 44.8/48

Out: 58.509 ± 26.610 χ^2/NDF : 59.9/54

All: 31.923 ± 19.123 χ^2/NDF : 106.7/103

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 152.824+/-0.031 χ^2/NDF : 1451925.5/25

Left Out: 144.475+/-0.024 χ^2/NDF : 670488.7/24

Right Out: 152.923+/-0.030 χ^2/NDF : 2263668.2/29

Left In: 145.535+/-0.025 χ^2/NDF : 643529.3/22

Left: 144.986+/-0.017 χ^2/NDF : 1314951.6/47

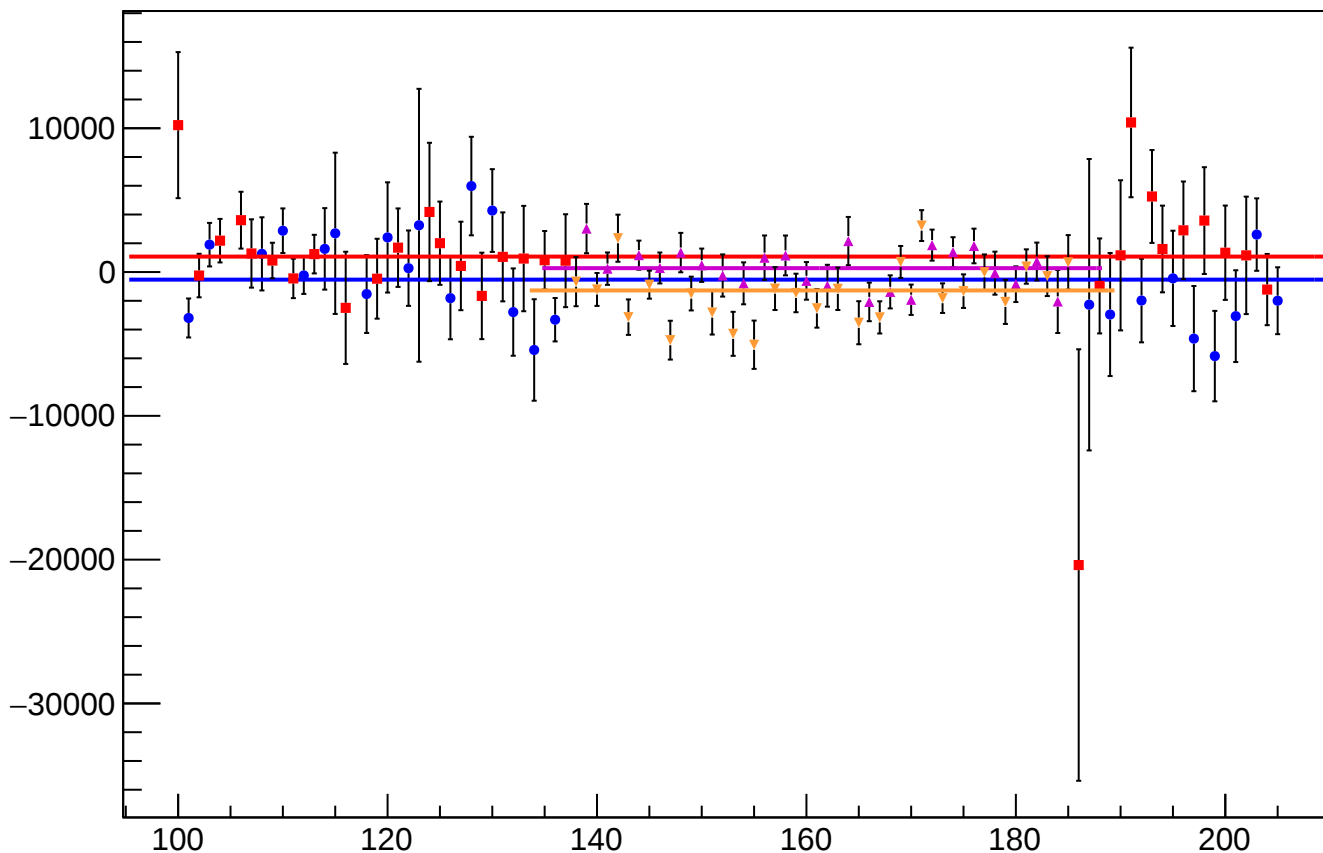
Right: 152.875+/-0.022 χ^2/NDF : 3715598.9/55

In: 148.395+/-0.019 χ^2/NDF : 2128959.8/48

Out: 147.764+/-0.019 χ^2/NDF : 2982077.2/54

All: 148.069+/-0.014 χ^2/NDF : 5111580.1/103

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -527.982 $\pm$ 470.360 χ^2 /NDF: 33.5/25

Left Out: -1279.328 $\pm$ 259.299 χ^2 /NDF:55.9/24

Right Out: 1074.672 $\pm$ 440.103 χ^2 /NDF: 19.0/29

Left In: 269.952 $\pm$ 266.245 χ^2 /NDF:24.3/22

Left: -525.161 $\pm$ 185.759 χ^2 /NDF: 97.6/47

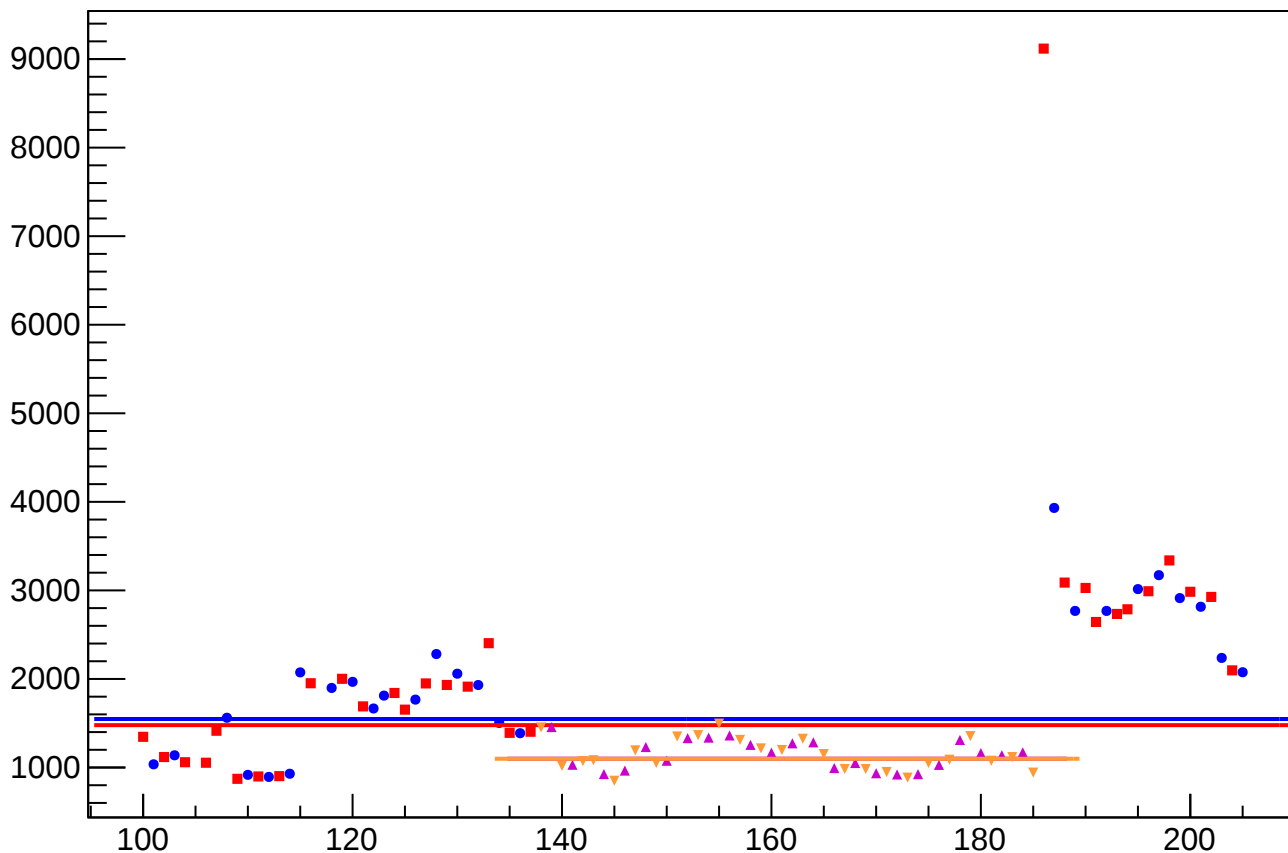
Right: 326.547 $\pm$ 321.364 χ^2 /NDF: 58.7/55

In: 76.327 $\pm$ 231.701 χ^2 /NDF:59.9/48

Out: -672.745 $\pm$ 223.407 χ^2 /NDF:96.2/54

All: -311.856 $\pm$ 160.825 χ^2 /NDF: 161.6/103

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1547.870+/-0.333 χ^2/NDF : 4035412.5/25

Left Out: 1098.909+/-0.183 χ^2/NDF : 824328.7/24

Right Out: 1478.457+/-0.311 χ^2/NDF : 5609195.4/29

Left In: 1099.585+/-0.188 χ^2/NDF : 679896.1/22

Left: 1099.238+/-0.131 χ^2/NDF : 1504231.4/47

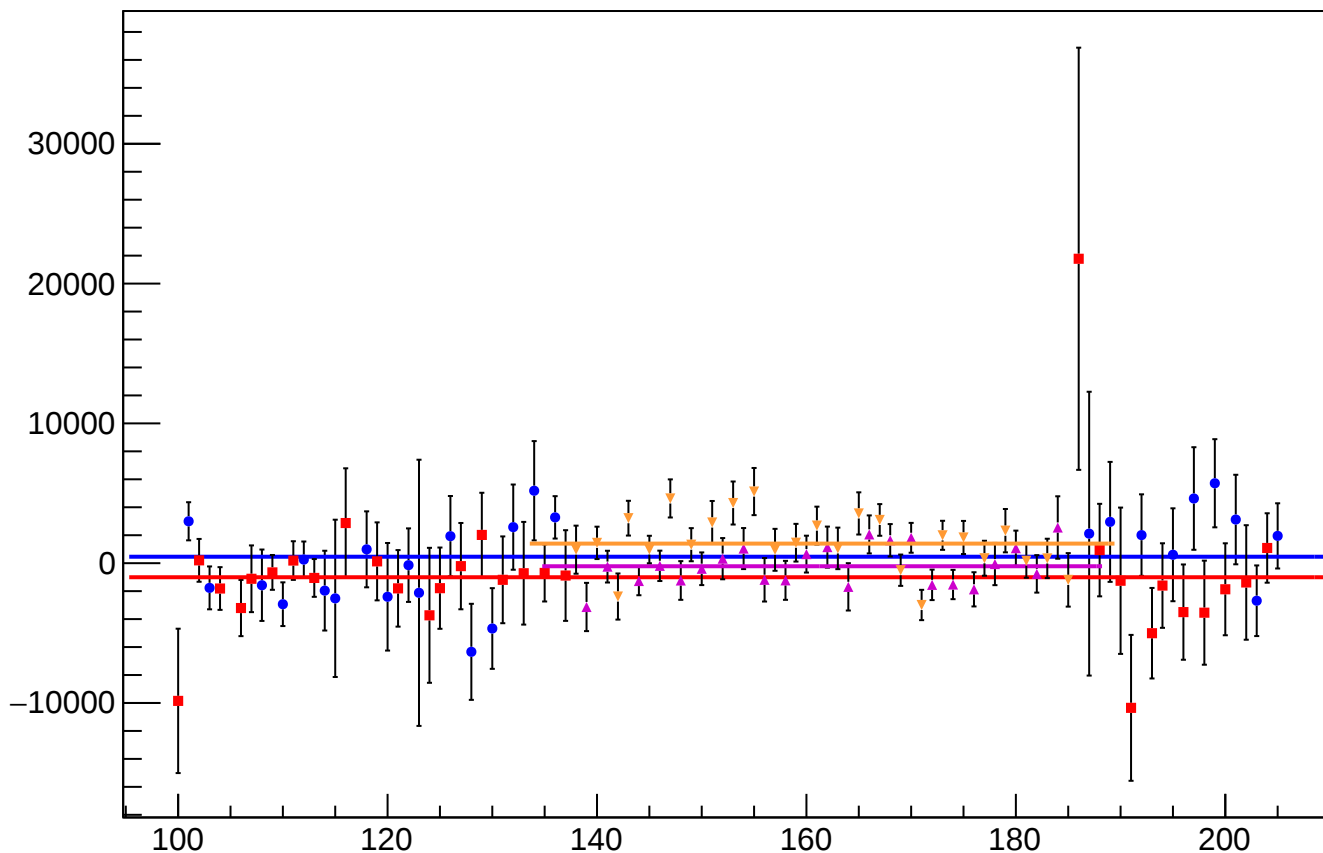
Right: 1510.859+/-0.227 χ^2/NDF : 9667831.8/55

In: 1208.365+/-0.164 χ^2/NDF : 6091150.2/48

Out: 1196.712+/-0.158 χ^2/NDF : 7537717.4/54

All: 1202.326+/-0.114 χ^2/NDF : 13631489.3/101

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 461.974 ± 473.085 $\chi^2/\text{NDF}: 33.1/25$

Left Out: 1400.458 ± 261.804 $\chi^2/\text{NDF}: 52.2/24$

Right Out: -1005.646 ± 443.120 $\chi^2/\text{NDF}: 17.8/29$

Left In: -219.393 ± 268.852 $\chi^2/\text{NDF}: 25.0/22$

Left: 612.044 ± 187.566 $\chi^2/\text{NDF}: 95.9/47$

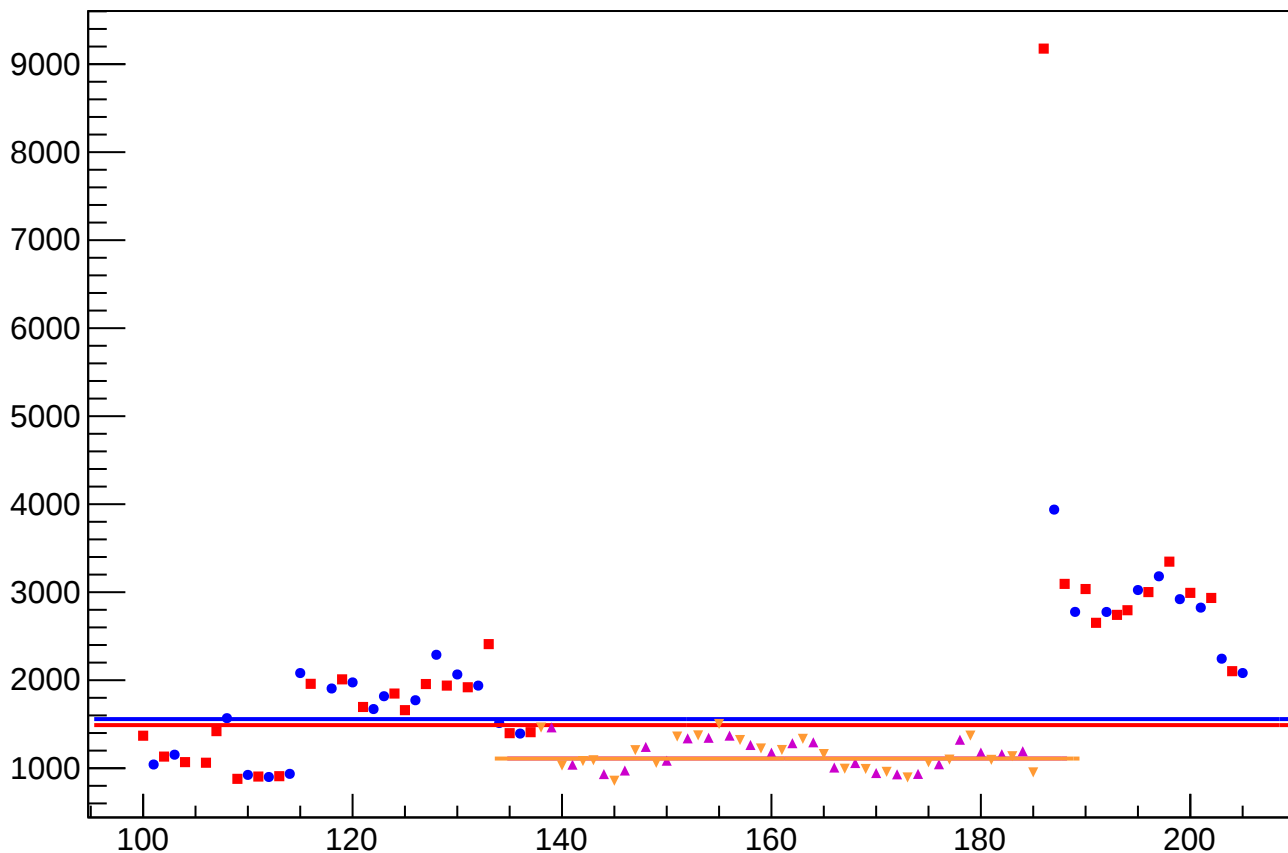
Right: -319.784 ± 323.408 $\chi^2/\text{NDF}: 56.0/55$

In: -53.058 ± 233.744 $\chi^2/\text{NDF}: 59.7/48$

Out: 777.885 ± 225.403 $\chi^2/\text{NDF}: 91.9/54$

All: 377.504 ± 162.252 $\chi^2/\text{NDF}: 158.1/103$

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1558.214+/-0.335 χ^2/NDF : 3998353.2/25

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1489.861+/-0.313 χ^2/NDF : 5561294.3/29

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

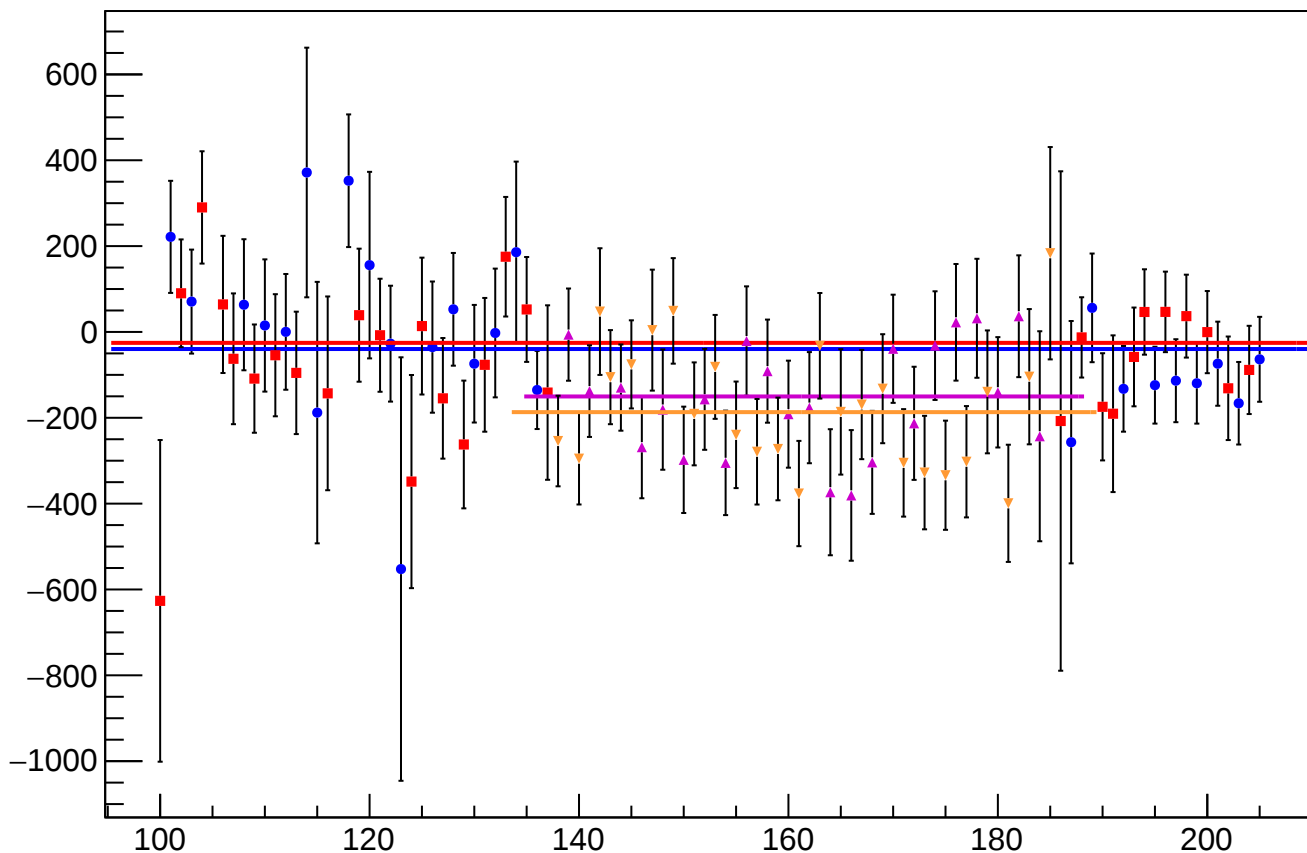
Right: 1521.804+/-0.229 χ^2/NDF : 9581887.0/55

In: 1219.827+/-0.165 χ^2/NDF : 6021991.0/48

Out: 1208.111+/-0.159 χ^2/NDF : 7464278.6/54

All: 1213.756+/-0.115 χ^2/NDF : 13488873.1/101

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -39.797 ± 25.096 $\chi^2/\text{NDF}: 25.1/25$

Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$

Right Out: -25.457 ± 24.194 $\chi^2/\text{NDF}: 24.0/29$

Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$

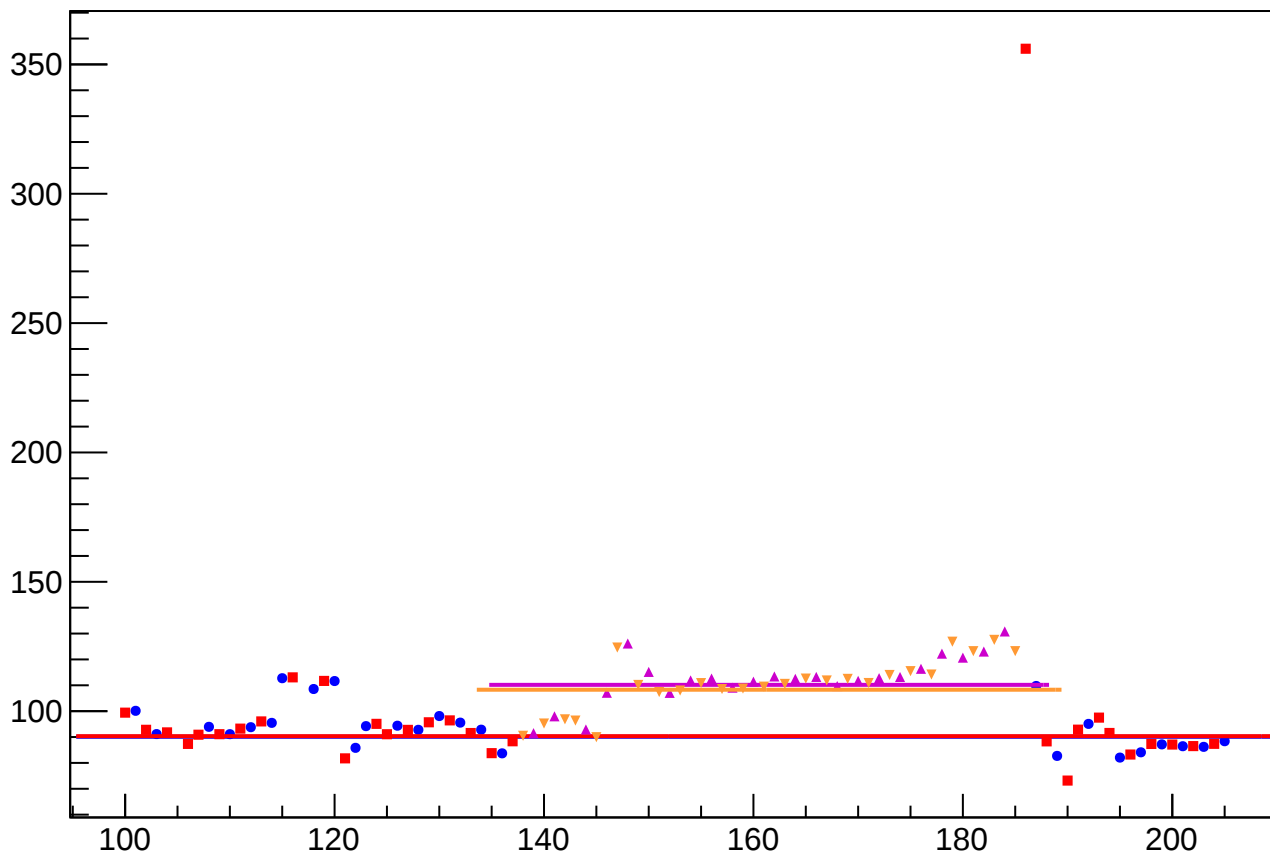
Right: -32.365 ± 17.418 $\chi^2/\text{NDF}: 49.3/55$

In: -92.165 ± 18.204 $\chi^2/\text{NDF}: 54.9/48$

Out: -102.517 ± 17.488 $\chi^2/\text{NDF}: 71.9/54$

All: -97.548 ± 12.611 $\chi^2/\text{NDF}: 127.0/103$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 90.112 $\pm$ 0.018 χ^2 /NDF: 153014.1/25

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 90.334 $\pm$ 0.017 χ^2 /NDF: 570681.5/29

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

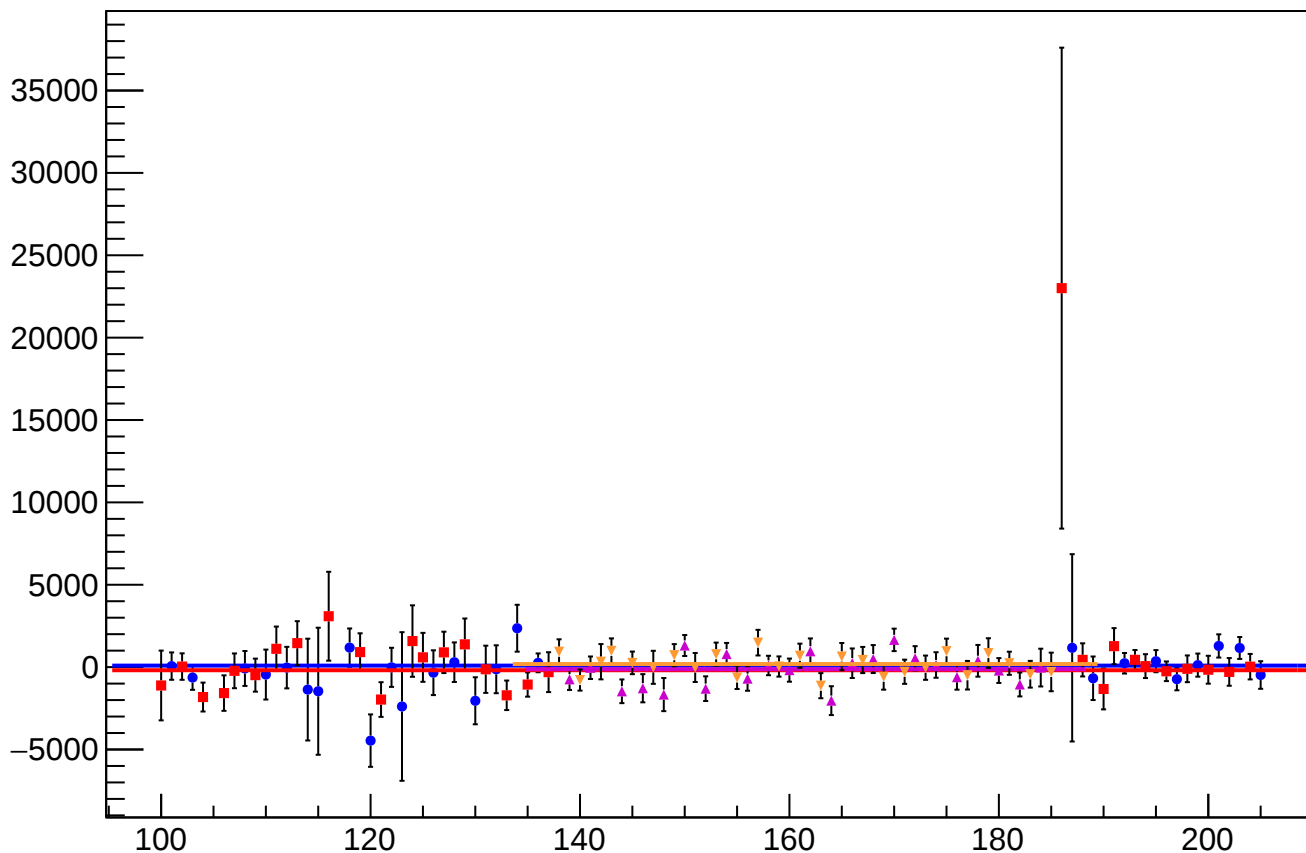
Right: 90.227 $\pm$ 0.012 χ^2 /NDF: 723776.1/55

In: 99.618 $\pm$ 0.013 χ^2 /NDF: 1005537.6/48

Out: 98.907 $\pm$ 0.012 χ^2 /NDF: 1427283.4/54

All: 99.248 $\pm$ 0.009 χ^2 /NDF: 2434409.6/103

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: 90.757 ± 187.884 $\chi^2/\text{NDF}: 23.9/25$

Left Out: 185.392 ± 153.683 $\chi^2/\text{NDF}: 18.4/24$

Right Out: -188.394 ± 180.369 $\chi^2/\text{NDF}: 27.1/29$

Left In: -128.782 ± 157.155 $\chi^2/\text{NDF}: 36.2/22$

Left: 31.814 ± 109.877 $\chi^2/\text{NDF}: 56.6/47$

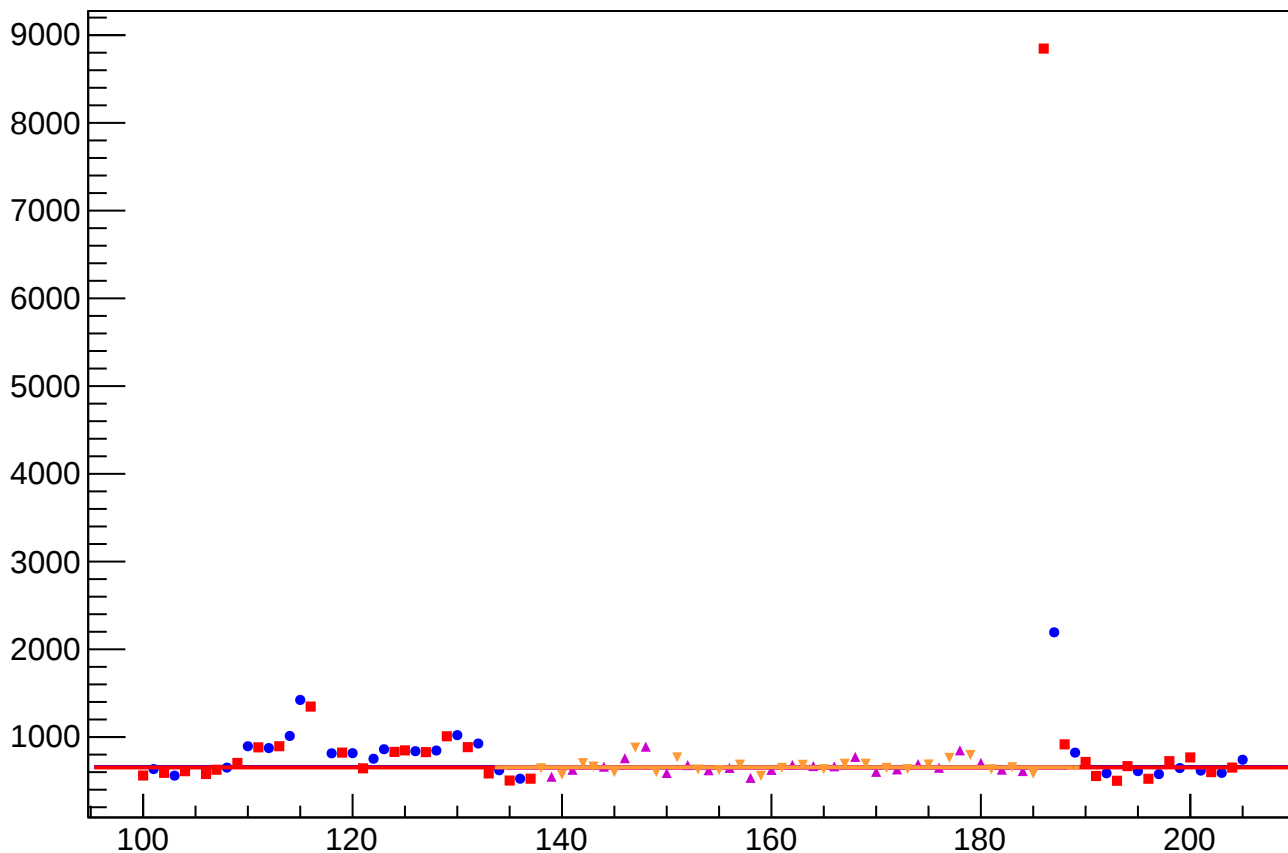
Right: -54.512 ± 130.116 $\chi^2/\text{NDF}: 52.1/55$

In: -38.410 ± 120.545 $\chi^2/\text{NDF}: 60.9/48$

Out: 28.170 ± 116.979 $\chi^2/\text{NDF}: 47.9/54$

All: -4.121 ± 83.949 $\chi^2/\text{NDF}: 109.0/103$

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 658.874+/-0.133 χ^2/NDF : 1000575.3/25

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 653.604+/-0.128 χ^2/NDF : 1765609.7/29

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

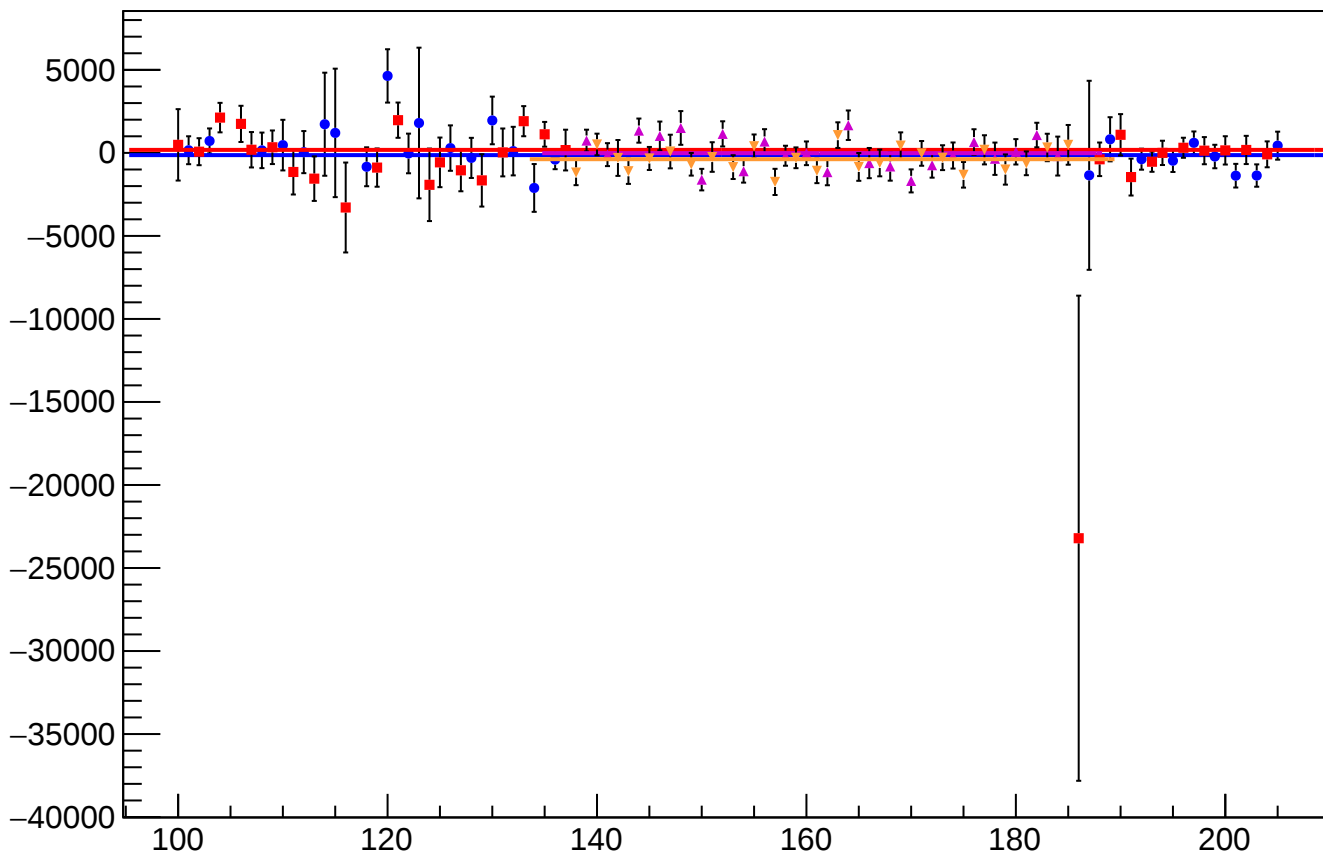
Right: 656.132+/-0.092 χ^2/NDF : 2767003.6/55

In: 654.172+/-0.085 χ^2/NDF : 1468820.4/48

Out: 654.503+/-0.083 χ^2/NDF : 2133045.2/54

All: 654.343+/-0.059 χ^2/NDF : 3601873.3/103

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -133.956+/-189.806 χ^2 /NDF: 24.8/25

Left Out: -379.470+/-155.892 χ^2 /NDF:18.8/24

Right Out: 181.161+/-182.335 χ^2 /NDF: 30.8/29

Left In: -14.768+/-159.513 χ^2 /NDF:37.2/22

Left: -201.306+/-111.491 χ^2 /NDF: 58.7/47

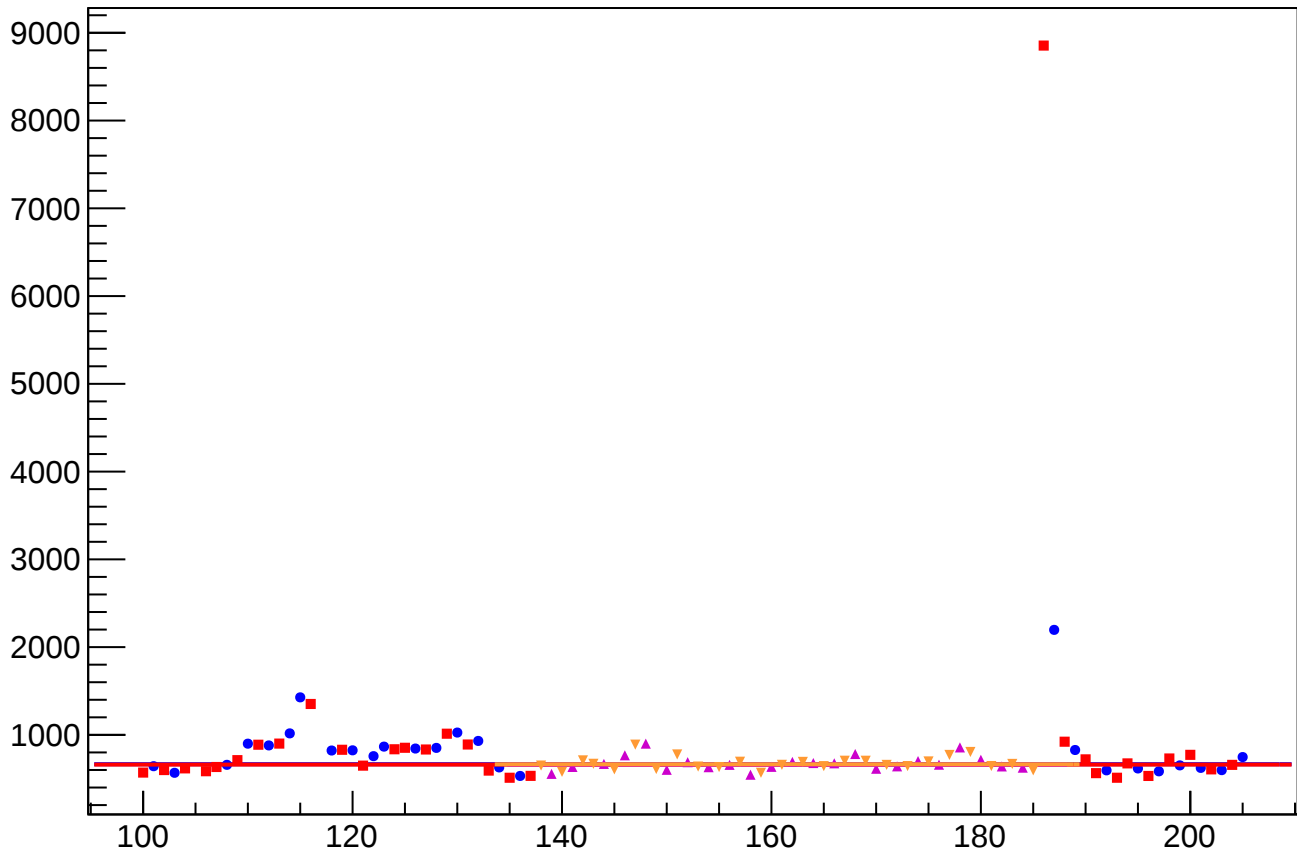
Right: 29.927+/-131.492 χ^2 /NDF: 57.0/55

In: -64.103+/-122.116 χ^2 /NDF:62.2/48

Out: -142.718+/-118.489 χ^2 /NDF:55.1/54

All: -104.596+/-85.038 χ^2 /NDF: 117.5/103

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 666.058+/-0.134 χ^2/NDF : 978163.7/25

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 661.342+/-0.129 χ^2/NDF : 1729247.8/29

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

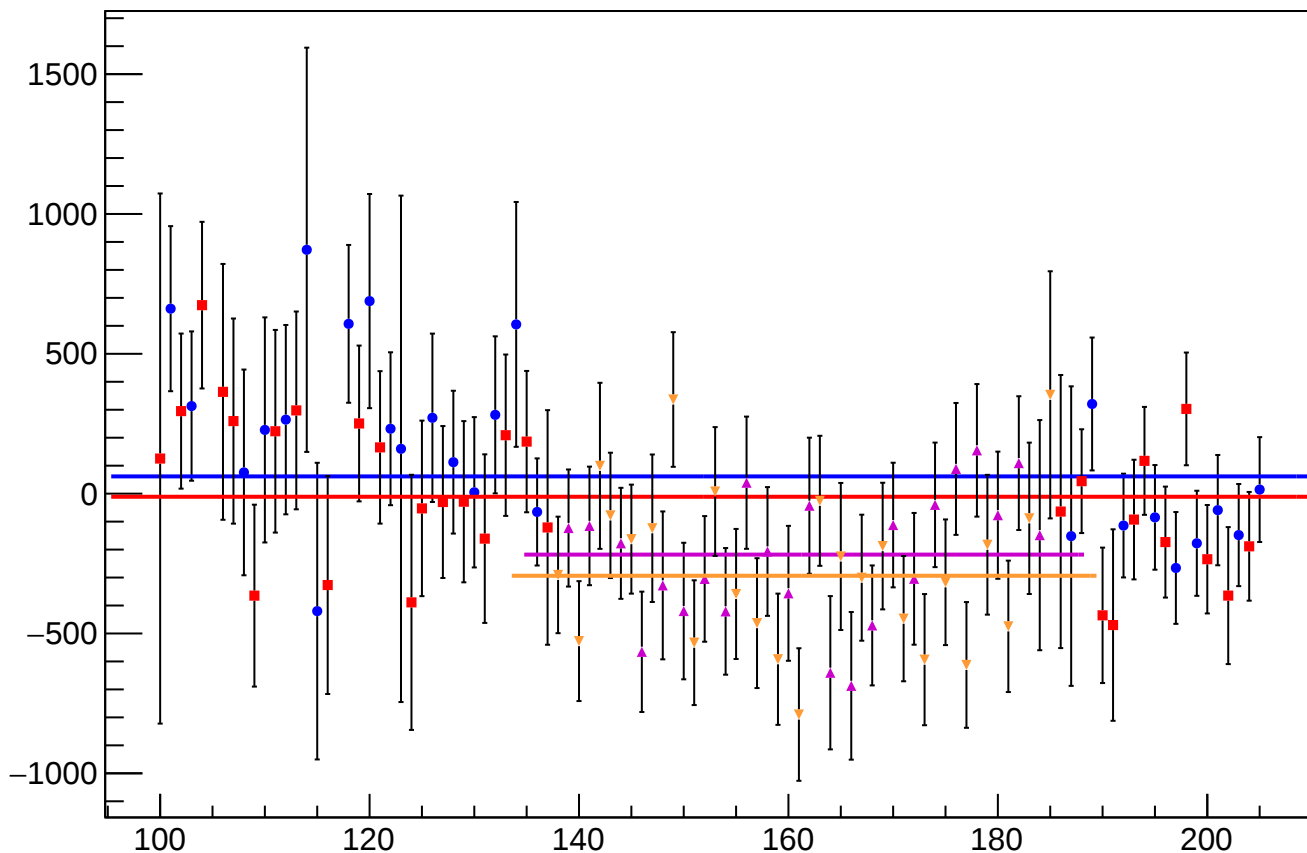
Right: 663.606+/-0.093 χ^2/NDF : 2708053.7/55

In: 663.030+/-0.086 χ^2/NDF : 1428212.7/48

Out: 663.324+/-0.084 χ^2/NDF : 2086710.6/54

All: 663.181+/-0.060 χ^2/NDF : 3514929.3/103

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 61.667 ± 50.701 $\chi^2/\text{NDF}: 26.5/25$

Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$

Right Out: -11.117 ± 49.516 $\chi^2/\text{NDF}: 27.2/29$

Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$

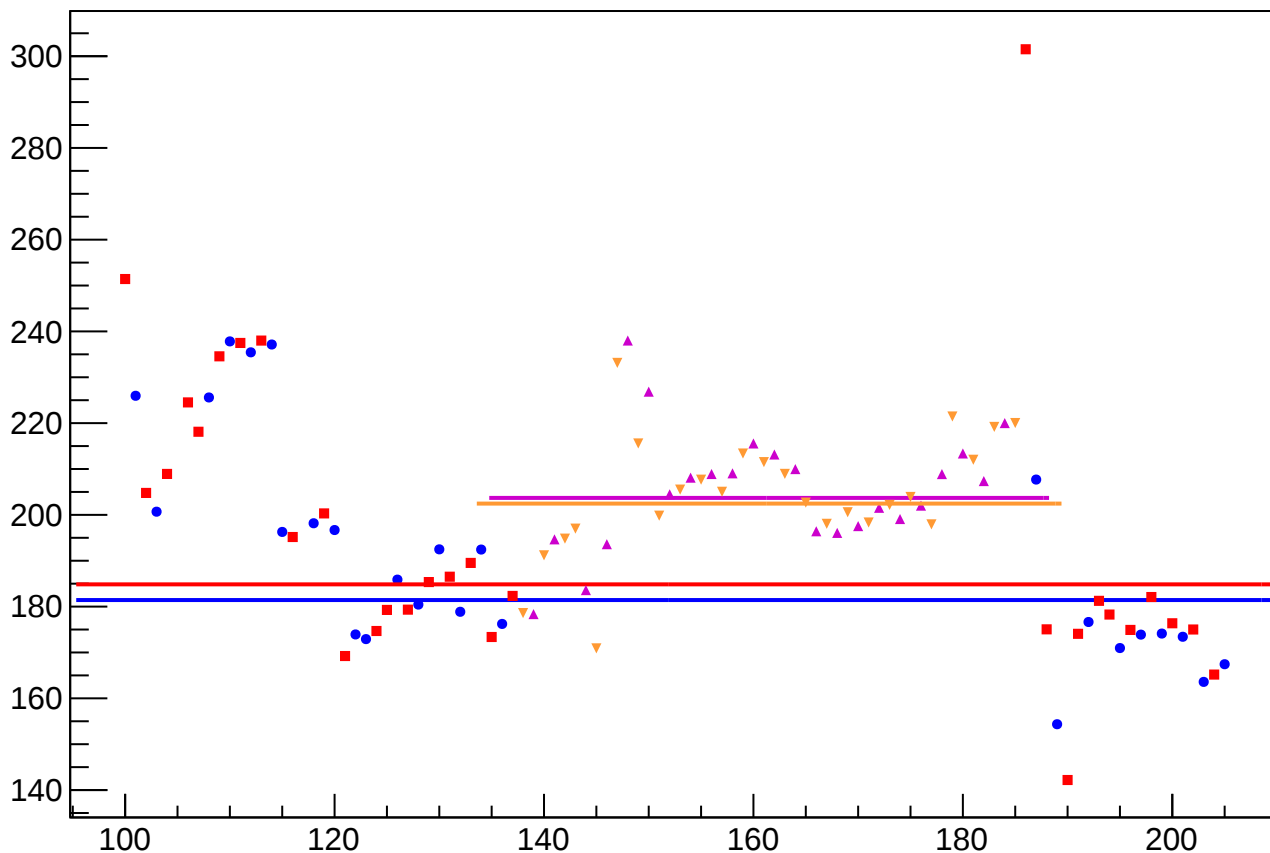
Right: 24.415 ± 35.425 $\chi^2/\text{NDF}: 54.8/55$

In: -83.434 ± 35.167 $\chi^2/\text{NDF}: 63.6/48$

Out: -159.106 ± 34.166 $\chi^2/\text{NDF}: 74.5/54$

All: -122.362 ± 24.505 $\chi^2/\text{NDF}: 140.6/103$

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 181.429+/-0.036 χ^2/NDF : 284902.4/25

Left Out: 202.459+/-0.033 χ^2/NDF :158582.3/24

Right Out: 184.849+/-0.035 χ^2/NDF : 439921.5/29

Left In: 203.699+/-0.035 χ^2/NDF :136193.4/22

Left: 203.058+/-0.024 χ^2/NDF : 295442.7/47

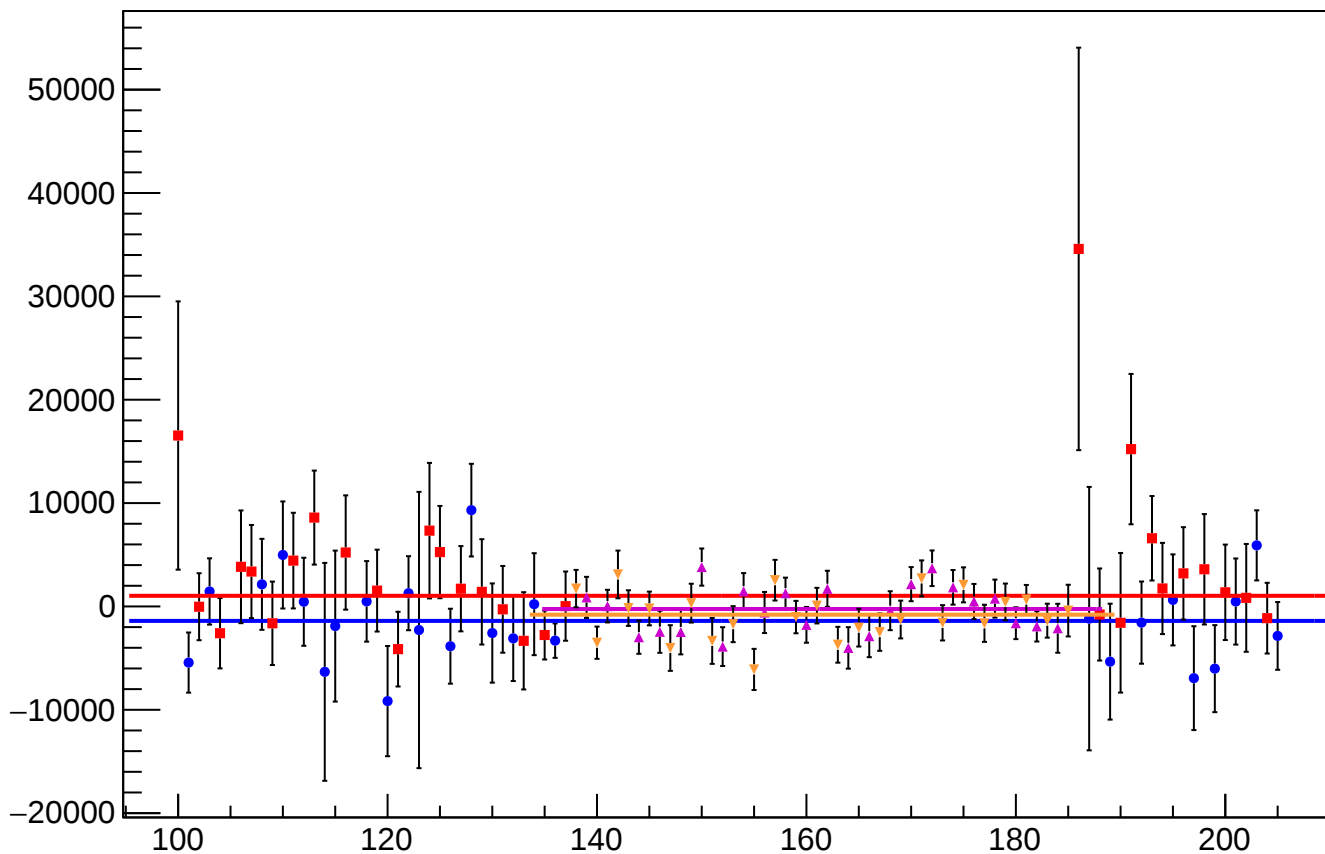
Right: 183.180+/-0.025 χ^2/NDF : 729483.5/55

In: 192.985+/-0.025 χ^2/NDF :621325.7/48

Out: 194.075+/-0.024 χ^2/NDF :731018.4/54

All: 193.546+/-0.017 χ^2/NDF : 1353333.1/103

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1398.657 ± 769.832 $\chi^2/\text{NDF}: 24.2/25$

Left Out: -796.528 ± 357.851 $\chi^2/\text{NDF}: 35.7/24$

Right Out: 1029.888 ± 790.719 $\chi^2/\text{NDF}: 24.9/29$

Left In: -245.102 ± 369.846 $\chi^2/\text{NDF}: 35.7/22$

Left: -529.902 ± 257.175 $\chi^2/\text{NDF}: 72.6/47$

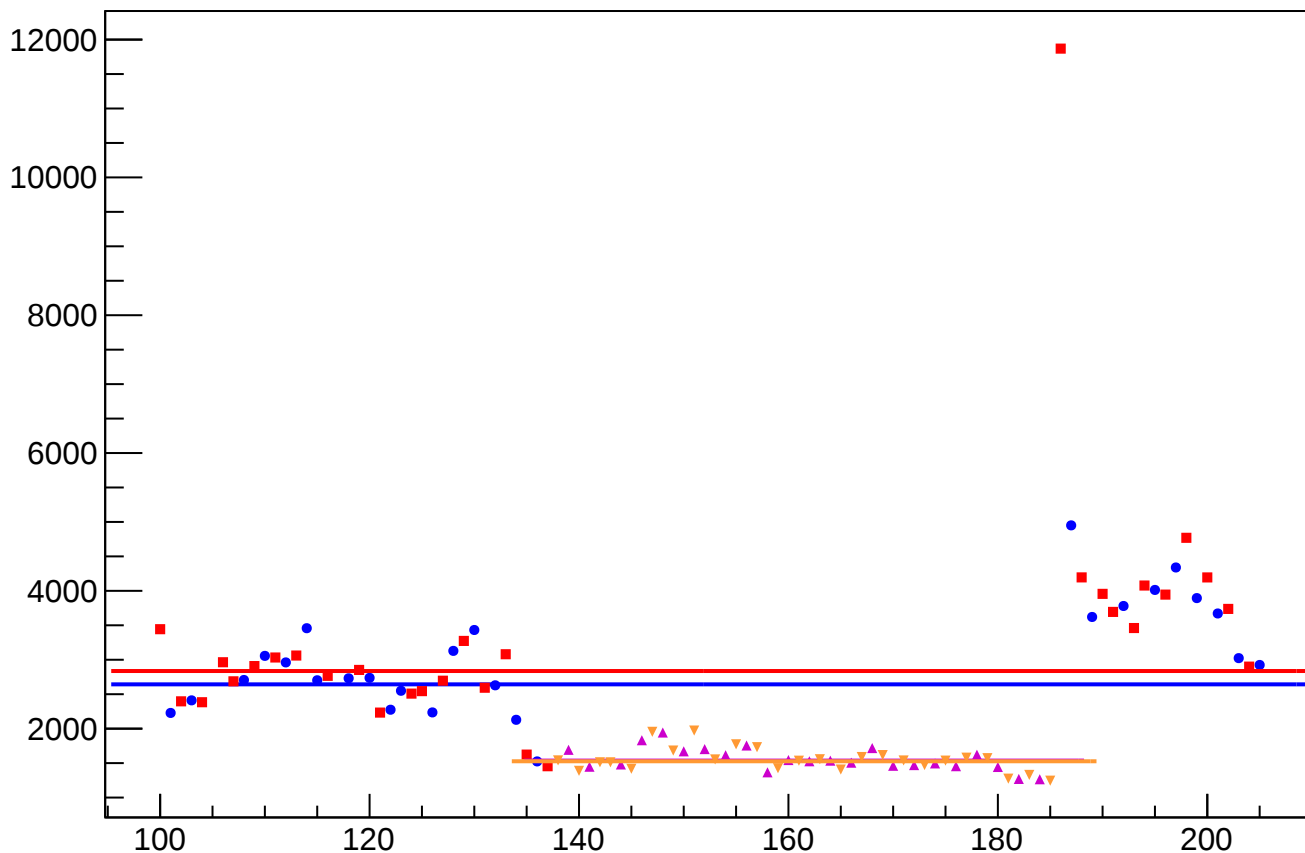
Right: -216.882 ± 551.590 $\chi^2/\text{NDF}: 53.9/55$

In: -461.423 ± 333.370 $\chi^2/\text{NDF}: 61.7/48$

Out: -486.044 ± 326.018 $\chi^2/\text{NDF}: 65.1/54$

All: -474.008 ± 233.085 $\chi^2/\text{NDF}: 126.8/103$

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2642.978+/-0.544 χ^2/NDF : 2186112.6/25

Left Out: 1526.712+/-0.253 χ^2/NDF : 394892.7/24

Right Out: 2836.453+/-0.559 χ^2/NDF : 2576119.2/29

Left In: 1536.538+/-0.262 χ^2/NDF : 350373.3/22

Left: 1531.463+/-0.182 χ^2/NDF : 745995.2/47

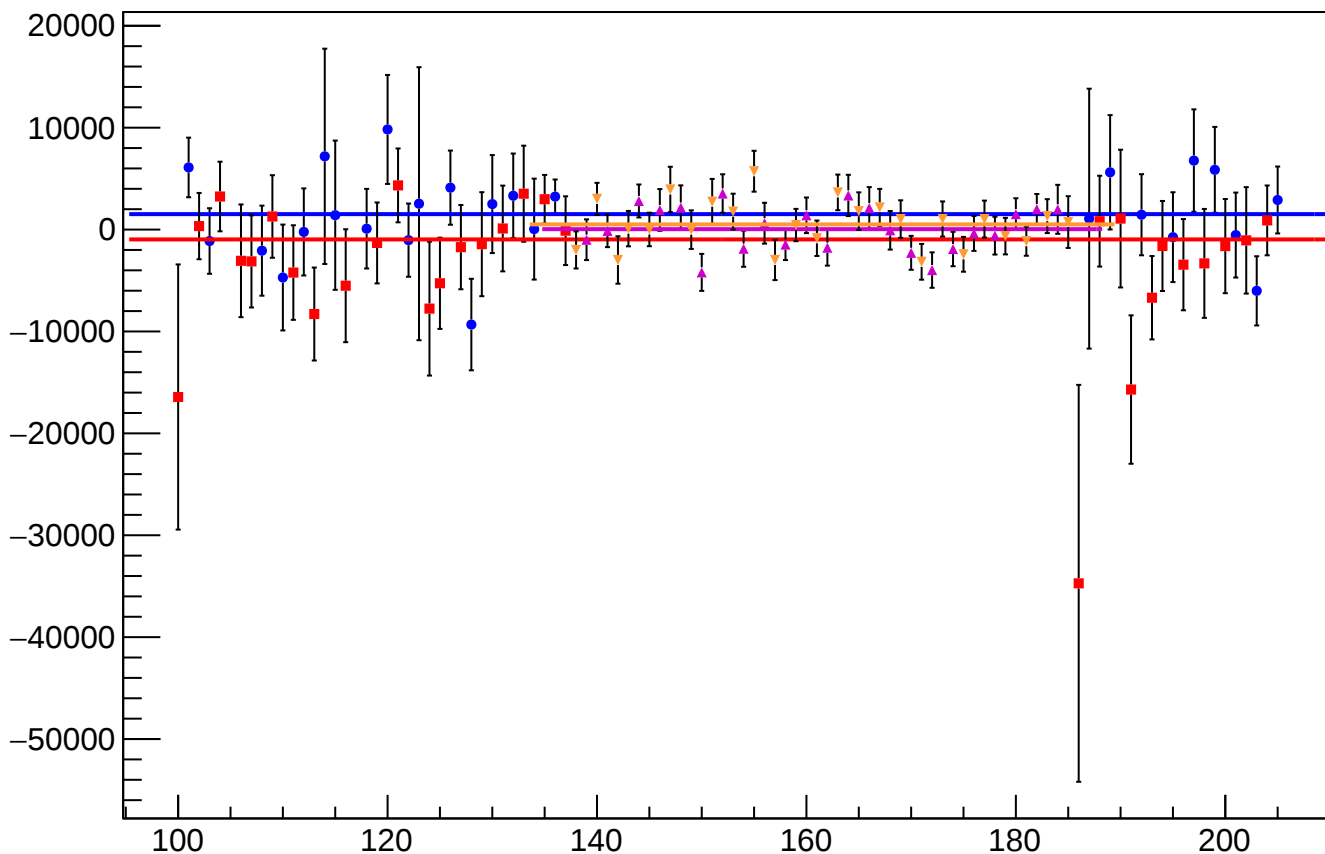
Right: 2737.127+/-0.390 χ^2/NDF : 4823704.0/55

In: 1744.023+/-0.236 χ^2/NDF : 5893113.6/48

Out: 1749.363+/-0.231 χ^2/NDF : 7525474.9/54

All: 1746.753+/-0.165 χ^2/NDF : 13418850.9/102

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1515.640 $\pm$ 772.523 χ^2 /NDF: 24.7/25

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF:35.4/24

Right Out: -966.667 $\pm$ 793.277 χ^2 /NDF: 25.6/29

Left In: 40.080 $\pm$ 373.261 χ^2 /NDF:33.6/22

Left: 281.730 $\pm$ 259.556 χ^2 /NDF: 69.8/47

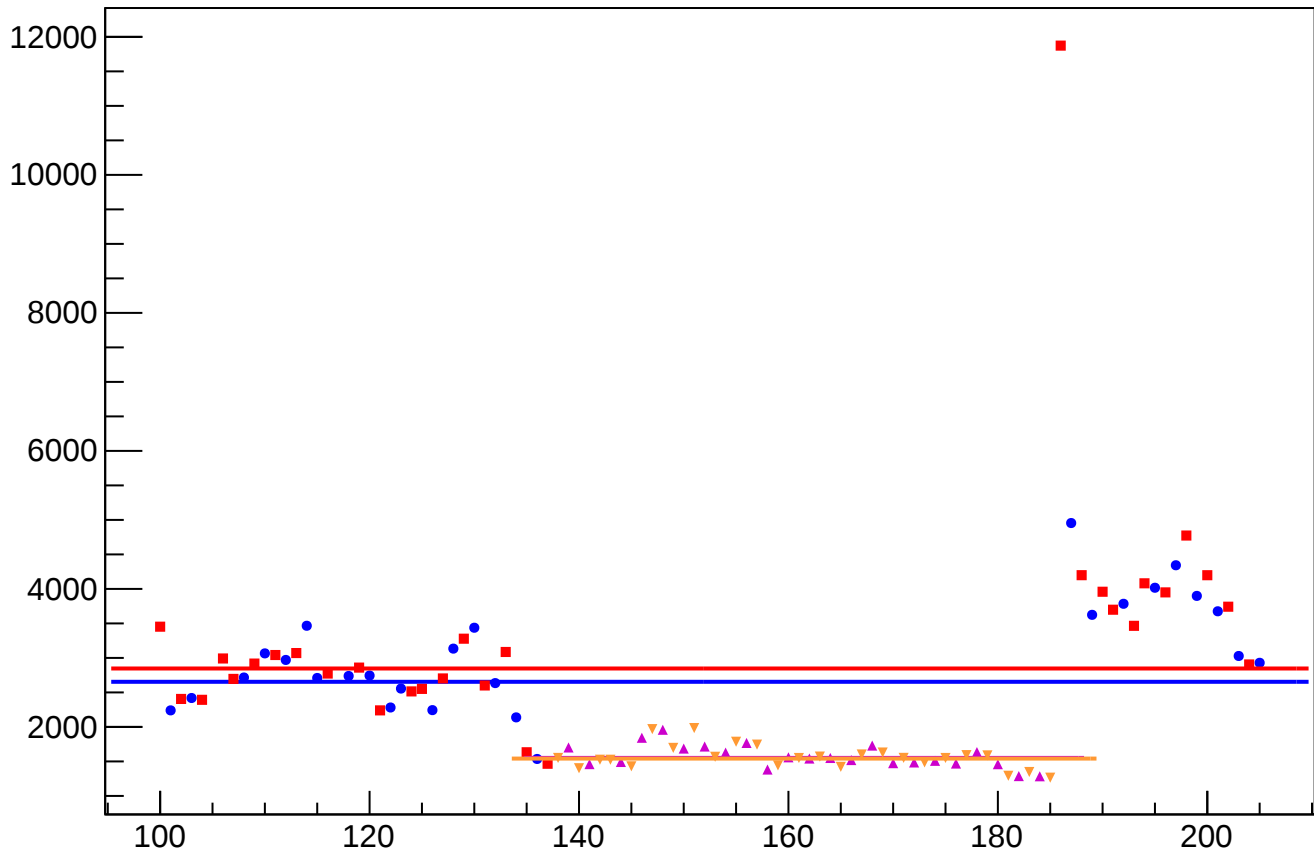
Right: 307.382 $\pm$ 553.448 χ^2 /NDF: 55.4/55

In: 319.357 $\pm$ 336.087 χ^2 /NDF:61.3/48

Out: 254.786 $\pm$ 328.707 χ^2 /NDF:63.9/54

All: 286.355 $\pm$ 234.996 χ^2 /NDF: 125.2/103

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2653.954 $\pm$ 0.546 χ^2 /NDF: 2156760.8/25

Left Out: 1541.258 $\pm$ 0.255 χ^2 /NDF: 382045.4/24

Right Out: 2846.727 $\pm$ 0.561 χ^2 /NDF: 2551560.0/29

Left In: 1551.063 $\pm$ 0.264 χ^2 /NDF: 338898.9/22

Left: 1546.000 $\pm$ 0.184 χ^2 /NDF: 721657.1/47

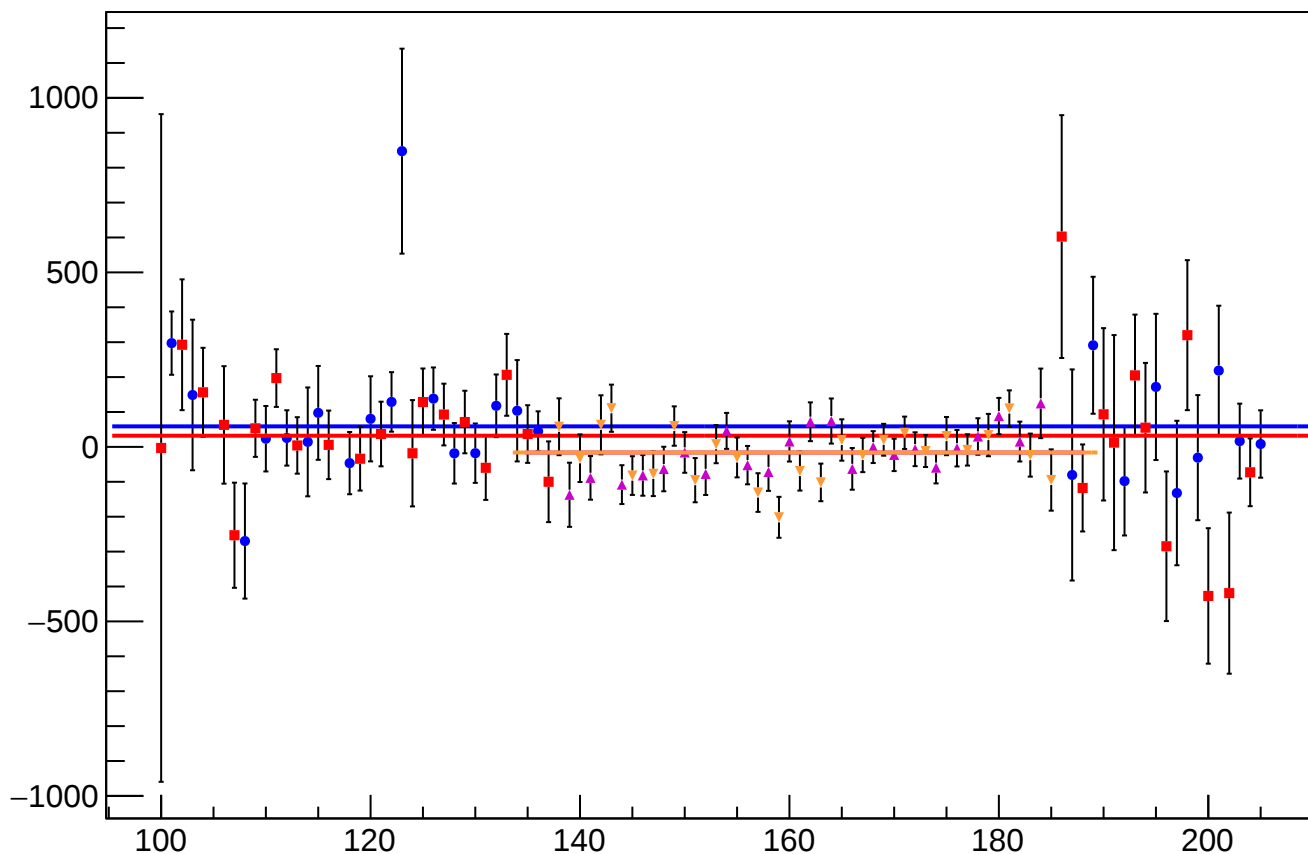
Right: 2747.786 $\pm$ 0.391 χ^2 /NDF: 4768939.6/55

In: 1759.806 $\pm$ 0.238 χ^2 /NDF: 5800484.4/48

Out: 1765.406 $\pm$ 0.232 χ^2 /NDF: 7420043.2/54

All: 1762.668 $\pm$ 0.166 χ^2 /NDF: 13220811.4/102

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 58.809 $\pm$ 21.594 χ^2 /NDF: 29.0/25

Left Out: -16.049 $\pm$ 11.340 χ^2 /NDF:39.7/24

Right Out: 32.042 $\pm$ 21.658 χ^2 /NDF: 37.3/29

Left In: -16.162 $\pm$ 11.649 χ^2 /NDF:25.2/22

Left: -16.104 $\pm$ 8.126 χ^2 /NDF: 64.9/47

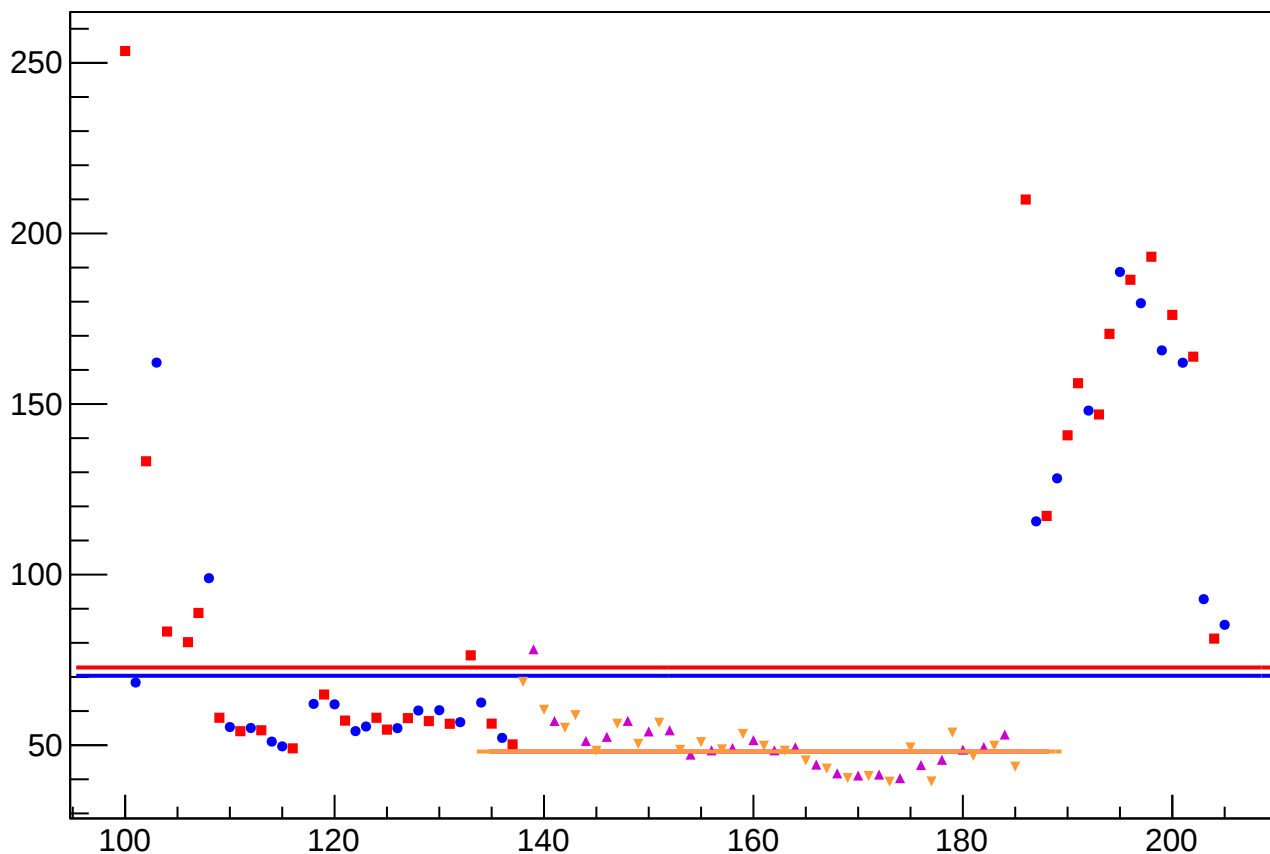
Right: 45.466 $\pm$ 15.292 χ^2 /NDF: 67.1/55

In: 0.739 $\pm$ 10.253 χ^2 /NDF:63.6/48

Out: -5.702 $\pm$ 10.046 χ^2 /NDF:80.9/54

All: -2.547 $\pm$ 7.176 χ^2 /NDF: 144.7/103

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 70.344+/-0.015 χ^2/NDF : 4202310.3/25

Left Out: 48.141+/-0.008 χ^2/NDF : 655250.3/24

Right Out: 72.779+/-0.015 χ^2/NDF : 5073568.6/29

Left In: 48.139+/-0.008 χ^2/NDF : 575025.5/22

Left: 48.140+/-0.006 χ^2/NDF : 1230275.9/47

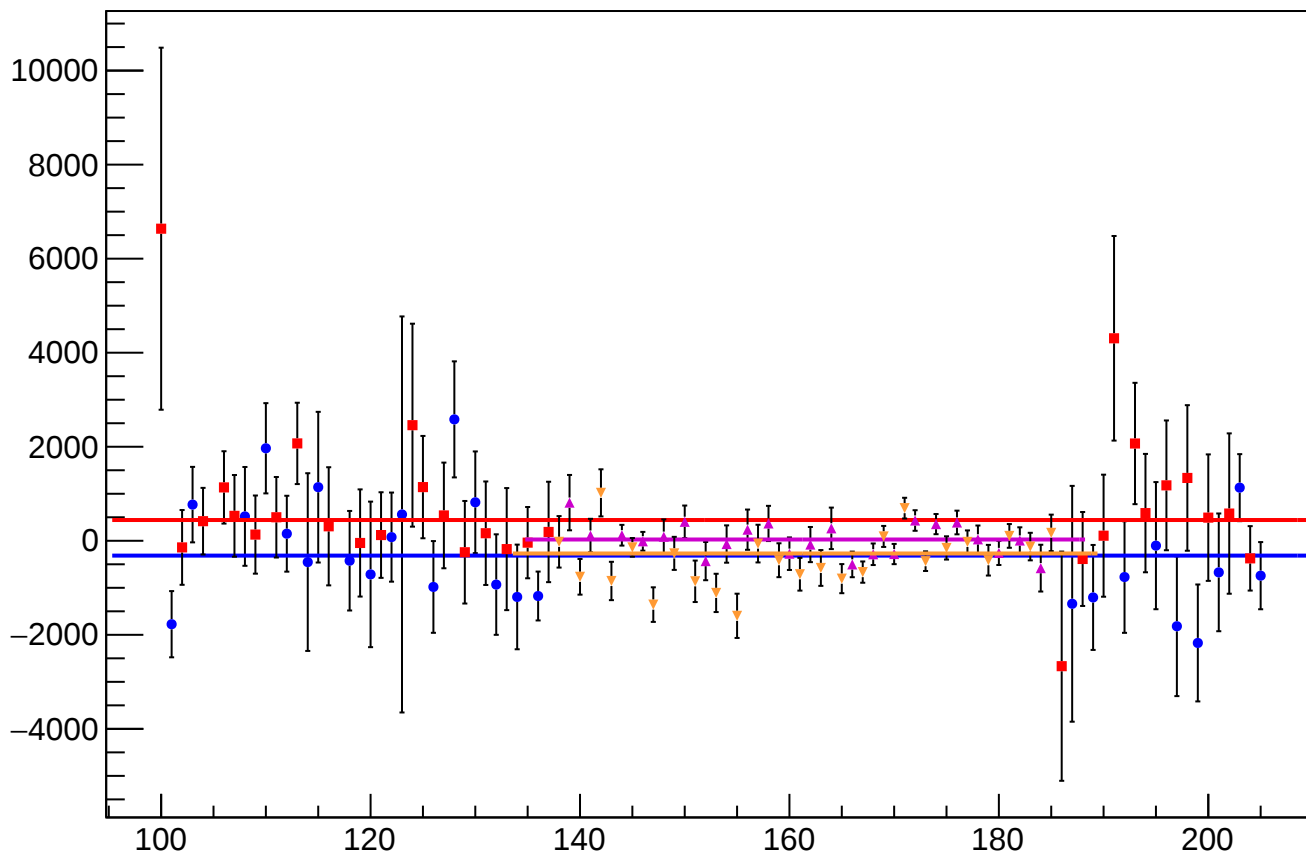
Right: 71.558+/-0.011 χ^2/NDF : 9288558.2/55

In: 53.145+/-0.007 χ^2/NDF : 6415356.5/48

Out: 53.442+/-0.007 χ^2/NDF : 7760163.0/54

All: 53.296+/-0.005 χ^2/NDF : 14176375.7/103

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -315.306+/-195.831 χ^2/NDF : 33.4/25

Left Out: -270.214+/-60.177 χ^2/NDF : 70.1/24

Right Out: 441.634+/-191.316 χ^2/NDF : 19.6/29

Left In: 27.271+/-60.430 χ^2/NDF : 25.1/22

Left: -122.095+/-42.641 χ^2/NDF : 107.3/47

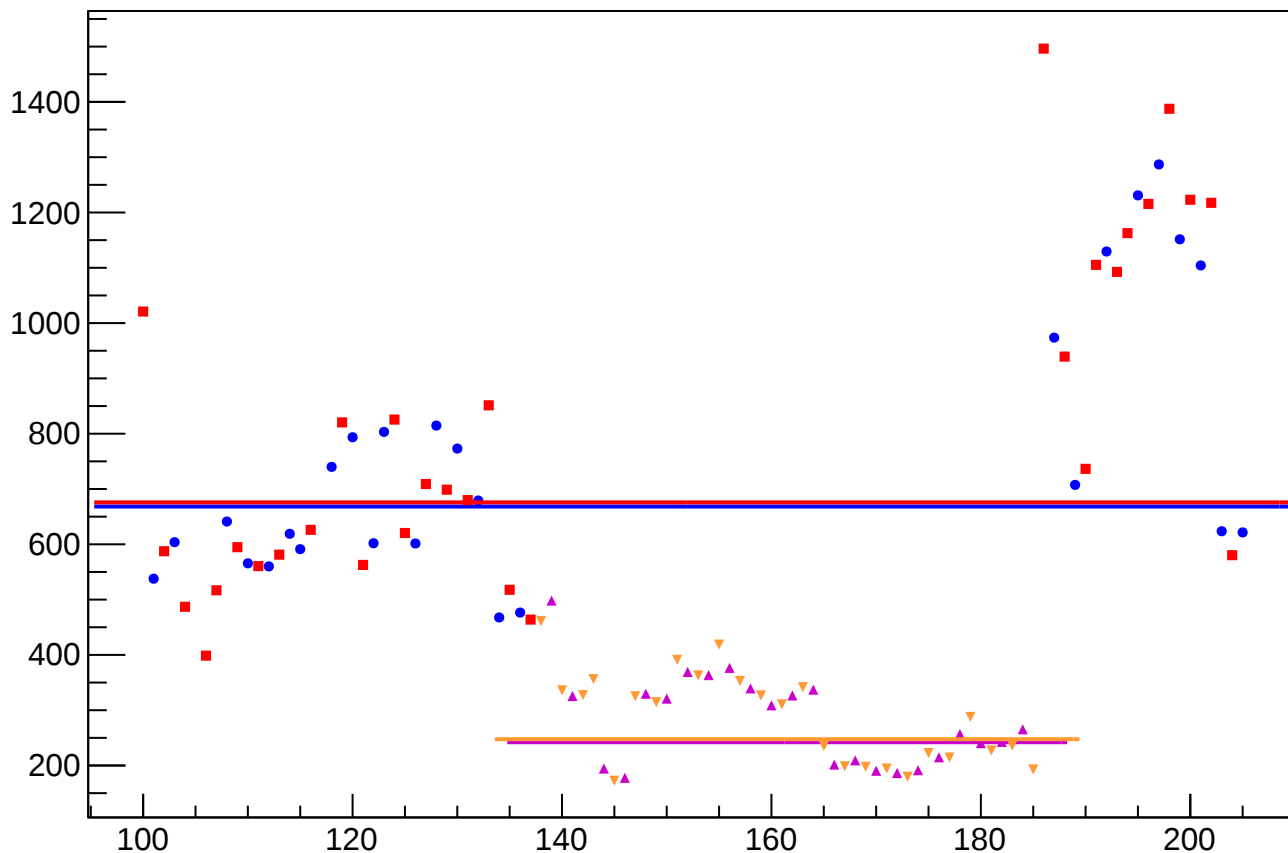
Right: 71.990+/-136.849 χ^2/NDF : 60.6/55

In: -2.514+/-57.743 χ^2/NDF : 61.3/48

Out: -206.126+/-57.405 χ^2/NDF : 102.3/54

All: -104.919+/-40.710 χ^2/NDF : 169.8/103

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 668.304+/-0.138 χ^2/NDF : 2163579.5/25

Left Out: 247.570+/-0.043 χ^2/NDF : 2780931.0/24

Right Out: 675.839+/-0.135 χ^2/NDF : 3131001.5/29

Left In: 242.117+/-0.043 χ^2/NDF : 2466108.9/22

Left: 244.855+/-0.030 χ^2/NDF : 5255218.1/47

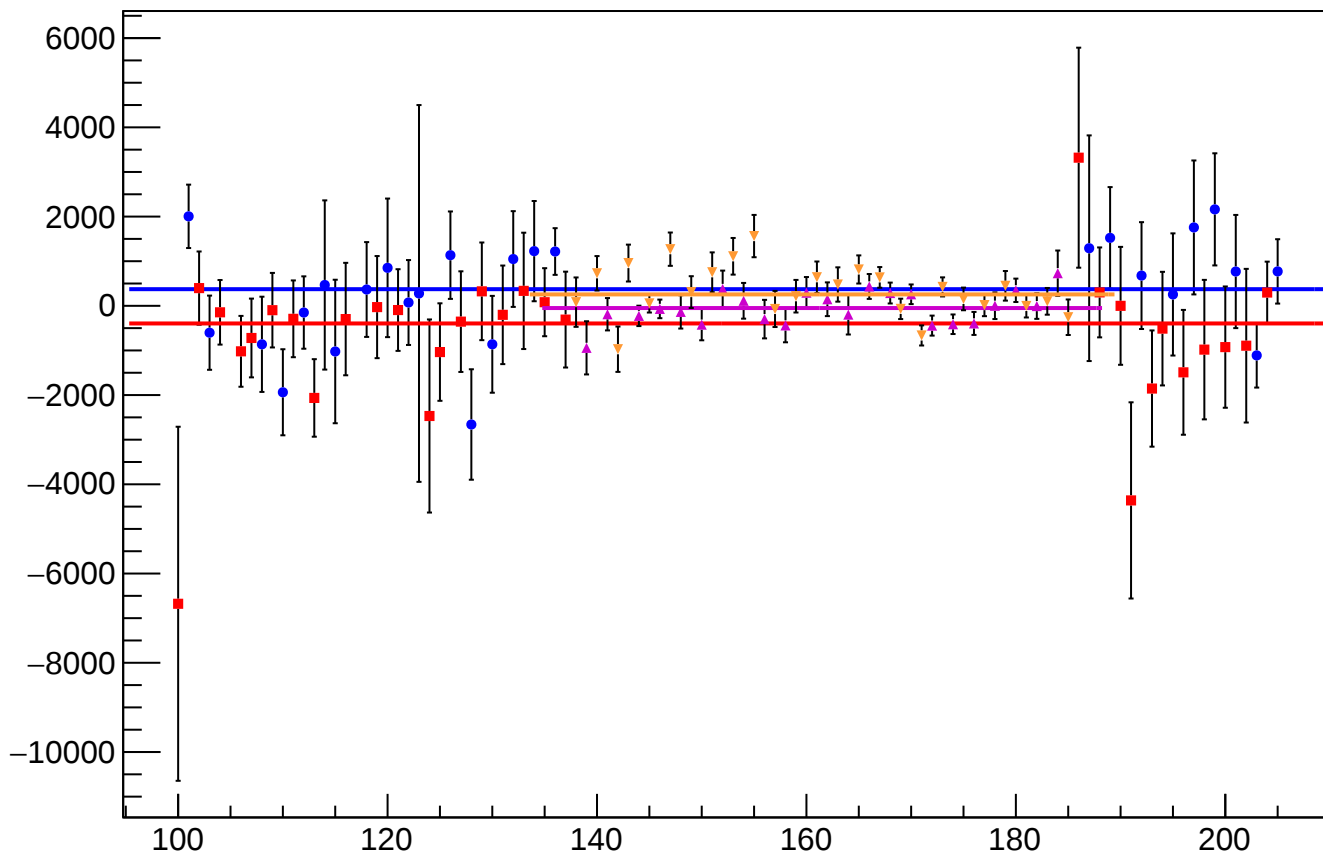
Right: 672.159+/-0.097 χ^2/NDF : 5296096.3/55

In: 279.171+/-0.041 χ^2/NDF : 13278632.5/48

Out: 286.128+/-0.041 χ^2/NDF : 15031747.1/54

All: 282.670+/-0.029 χ^2/NDF : 28324978.1/100

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 373.164 $\pm$ 197.679 χ^2/NDF : 35.3/25

Left Out: 255.995 $\pm$ 61.418 χ^2/NDF : 63.6/24

Right Out: -395.209 $\pm$ 193.486 χ^2/NDF : 20.1/29

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

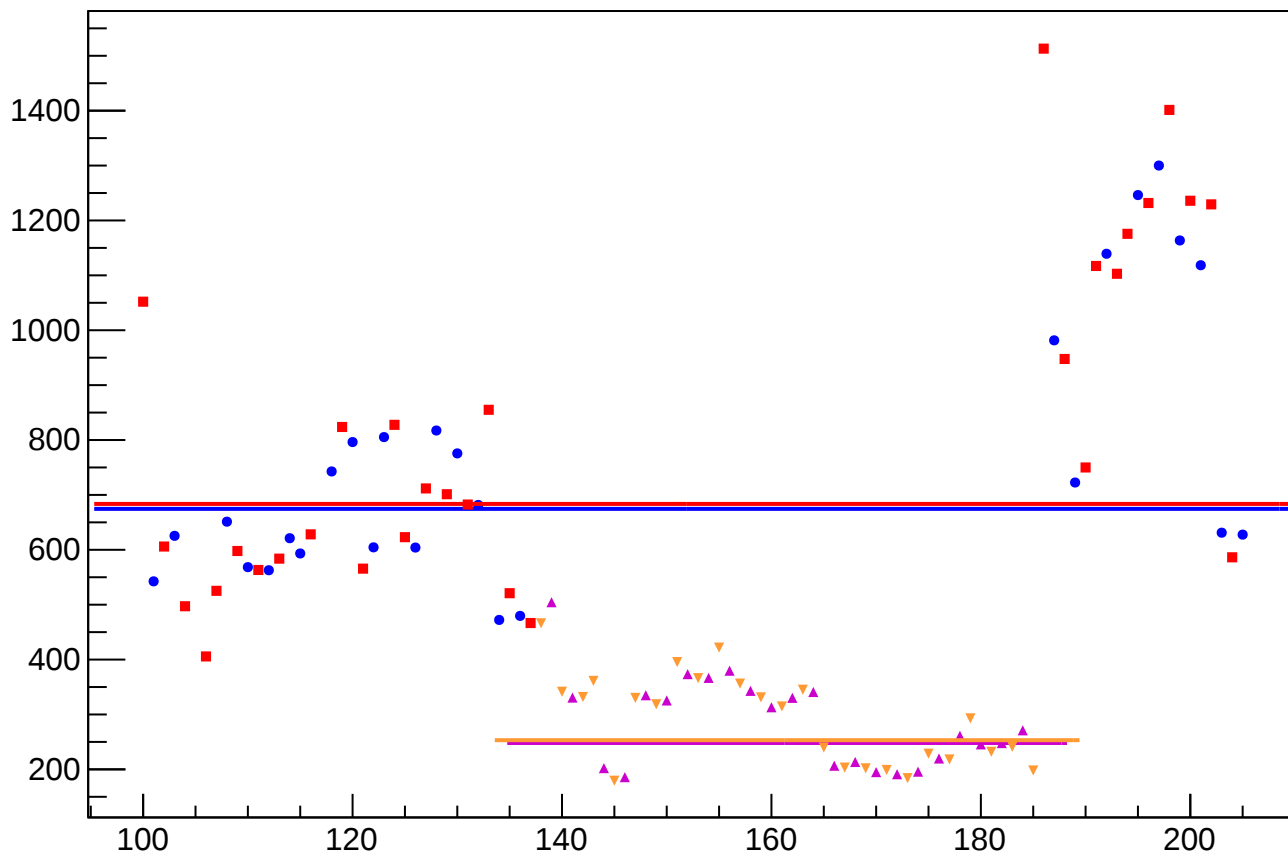
Right: -19.257 $\pm$ 138.274 χ^2/NDF : 63.2/55

In: -12.191 $\pm$ 58.968 χ^2/NDF : 67.0/48

Out: 196.385 $\pm$ 58.540 χ^2/NDF : 94.0/54

All: 92.857 $\pm$ 41.545 χ^2/NDF : 167.4/103

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 674.578+/-0.140 χ^2/NDF : 2170390.4/25

Left Out: 253.137+/-0.043 χ^2/NDF : 2665975.8/24

Right Out: 683.595+/-0.137 χ^2/NDF : 3107037.4/29

Left In: 248.069+/-0.044 χ^2/NDF : 2343295.0/22

Left: 250.618+/-0.031 χ^2/NDF : 5016040.5/47

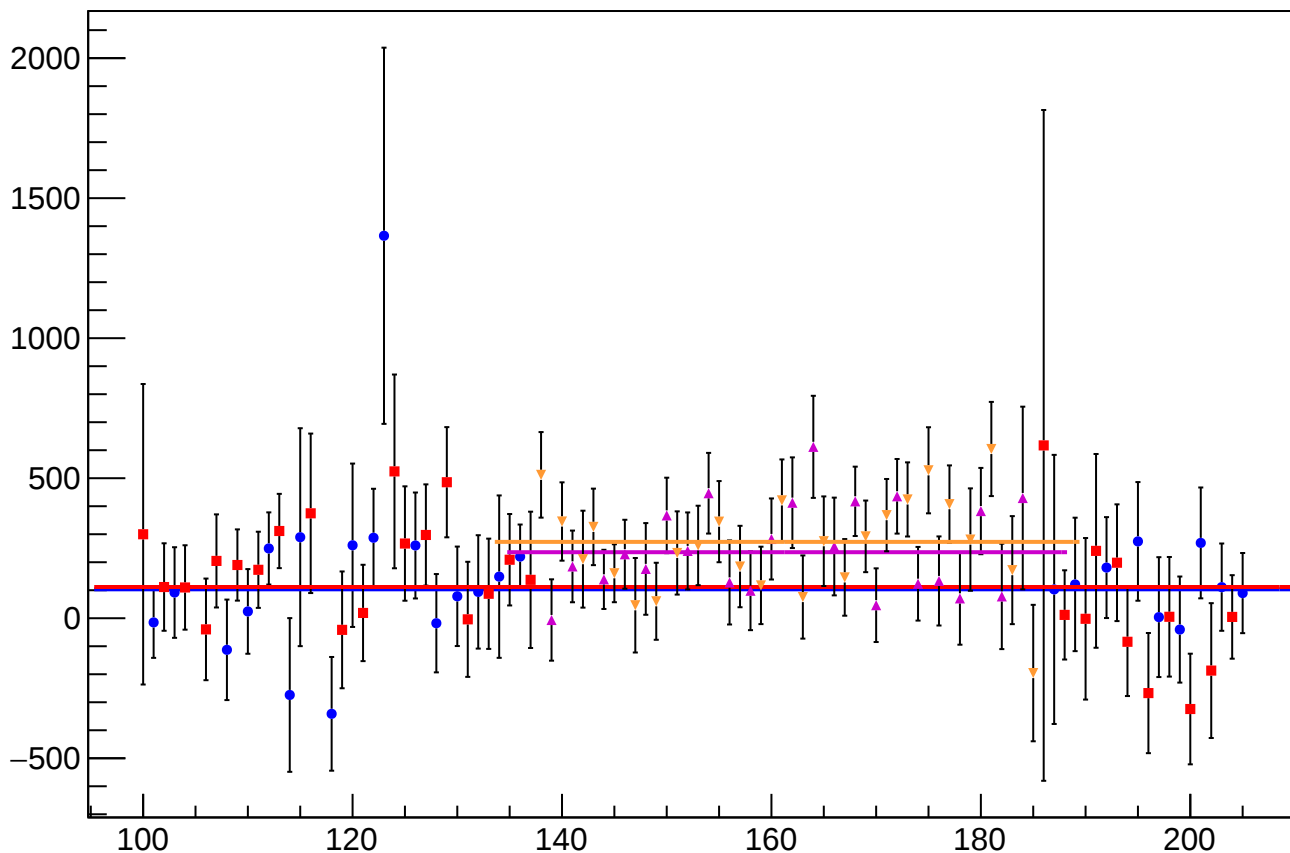
Right: 679.183+/-0.098 χ^2/NDF : 5279553.0/55

In: 286.022+/-0.042 χ^2/NDF : 12995607.6/48

Out: 292.540+/-0.041 χ^2/NDF : 14765906.8/54

All: 289.305+/-0.029 χ^2/NDF : 27773824.4/10

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 103.278+/-36.008 χ^2/NDF : 20.3/25

Left Out: 272.684+/-29.221 χ^2/NDF :27.4/24

Right Out: 111.547+/-34.684 χ^2/NDF : 25.4/29

Left In: 235.801+/-30.232 χ^2/NDF :24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

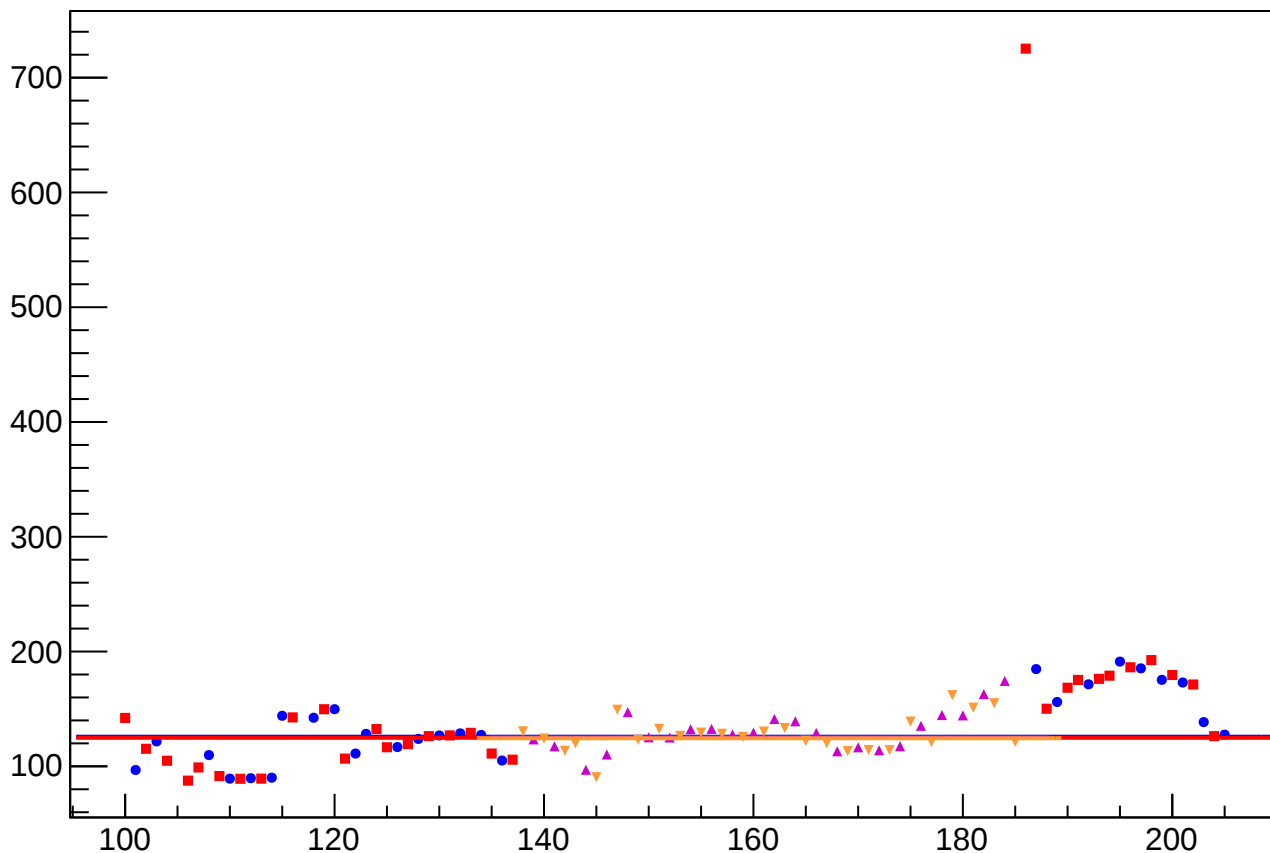
Right: 107.567+/-24.980 χ^2/NDF : 45.7/55

In: 181.009+/-23.153 χ^2/NDF :52.9/48

Out: 205.790+/-22.347 χ^2/NDF :65.4/54

All: 193.838+/-16.079 χ^2/NDF : 118.9/103

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 125.792 $\pm$ 0.025 χ^2 /NDF: 1347121.7/25

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 124.863 $\pm$ 0.025 χ^2 /NDF: 2201348.6/29

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

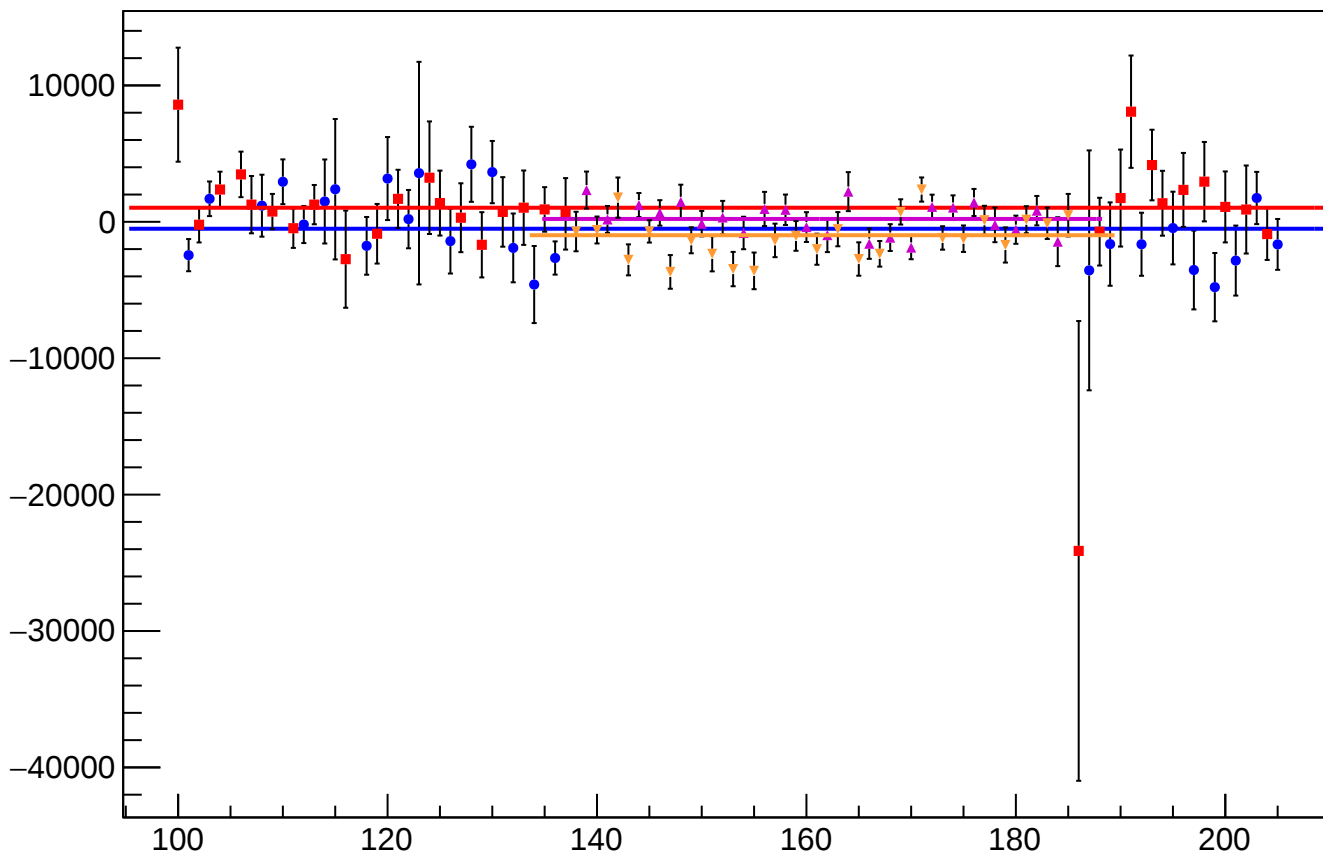
Right: 125.310 $\pm$ 0.018 χ^2 /NDF: 3549161.7/55

In: 125.448 $\pm$ 0.016 χ^2 /NDF: 1848821.8/48

Out: 124.609 $\pm$ 0.016 χ^2 /NDF: 2741263.5/54

All: 125.013 $\pm$ 0.011 χ^2 /NDF: 4591444.8/103

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -507.773+/-406.579 χ^2/NDF : 32.6/25

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1032.436+/-387.178 χ^2/NDF : 21.1/29

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

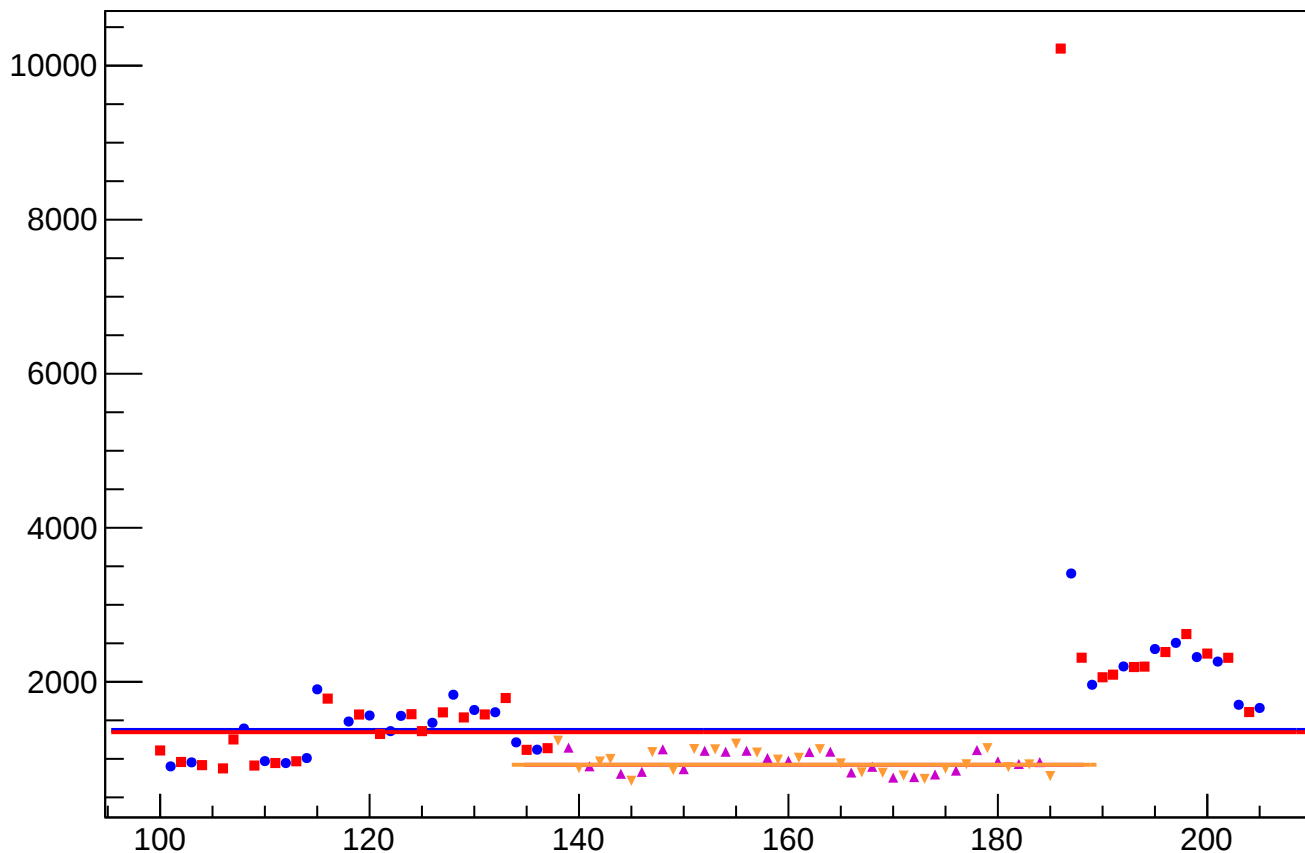
Right: 299.955+/-280.384 χ^2/NDF : 61.3/55

In: 44.760+/-195.721 χ^2/NDF : 60.7/48

Out: -497.666+/-189.973 χ^2/NDF : 88.9/54

All: -234.536+/-136.318 χ^2/NDF : 153.5/103

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1375.198+/-0.287 χ^2/NDF : 2803769.1/25

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1346.725+/-0.274 χ^2/NDF : 3966521.8/29

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

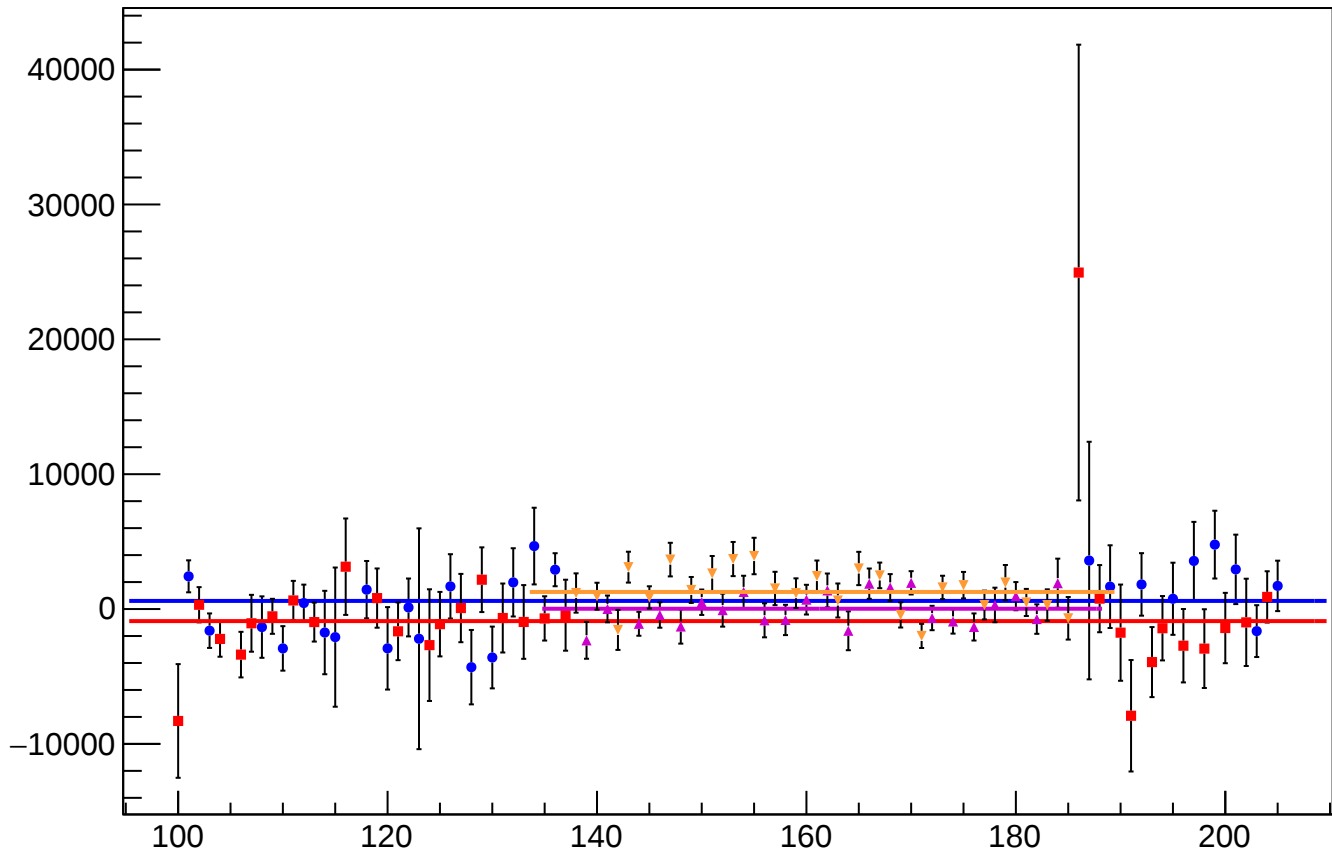
Right: 1360.266+/-0.198 χ^2/NDF : 6775434.9/55

In: 1027.209+/-0.138 χ^2/NDF : 5345516.6/48

Out: 1025.456+/-0.134 χ^2/NDF : 6622957.1/54

All: 1026.306+/-0.096 χ^2/NDF : 11968556.3/102

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 602.317 $\pm$ 408.406 χ^2 /NDF: 32.6/25

Left Out: 1267.344 $\pm$ 220.133 χ^2 /NDF:44.9/24

Right Out: -894.114 $\pm$ 389.103 χ^2 /NDF: 21.4/29

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

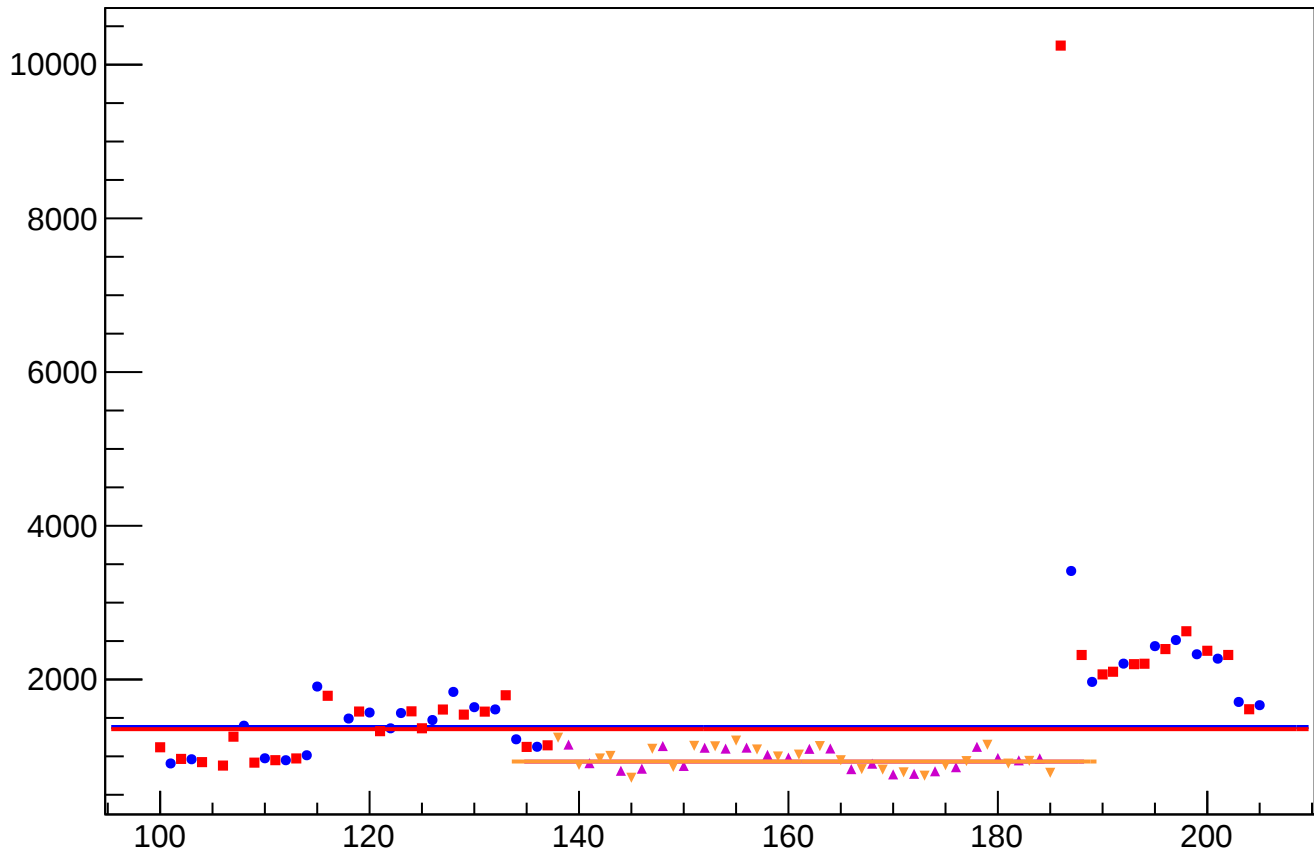
Right: -182.098 $\pm$ 281.714 χ^2 /NDF: 61.0/55

In: 158.707 $\pm$ 197.401 χ^2 /NDF:61.3/48

Out: 743.269 $\pm$ 191.596 χ^2 /NDF:89.7/54

All: 459.709 $\pm$ 137.485 χ^2 /NDF: 155.5/103

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1381.910+/-0.289 χ^2/NDF : 2787460.0/25

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1353.789+/-0.275 χ^2/NDF : 3945844.3/29

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

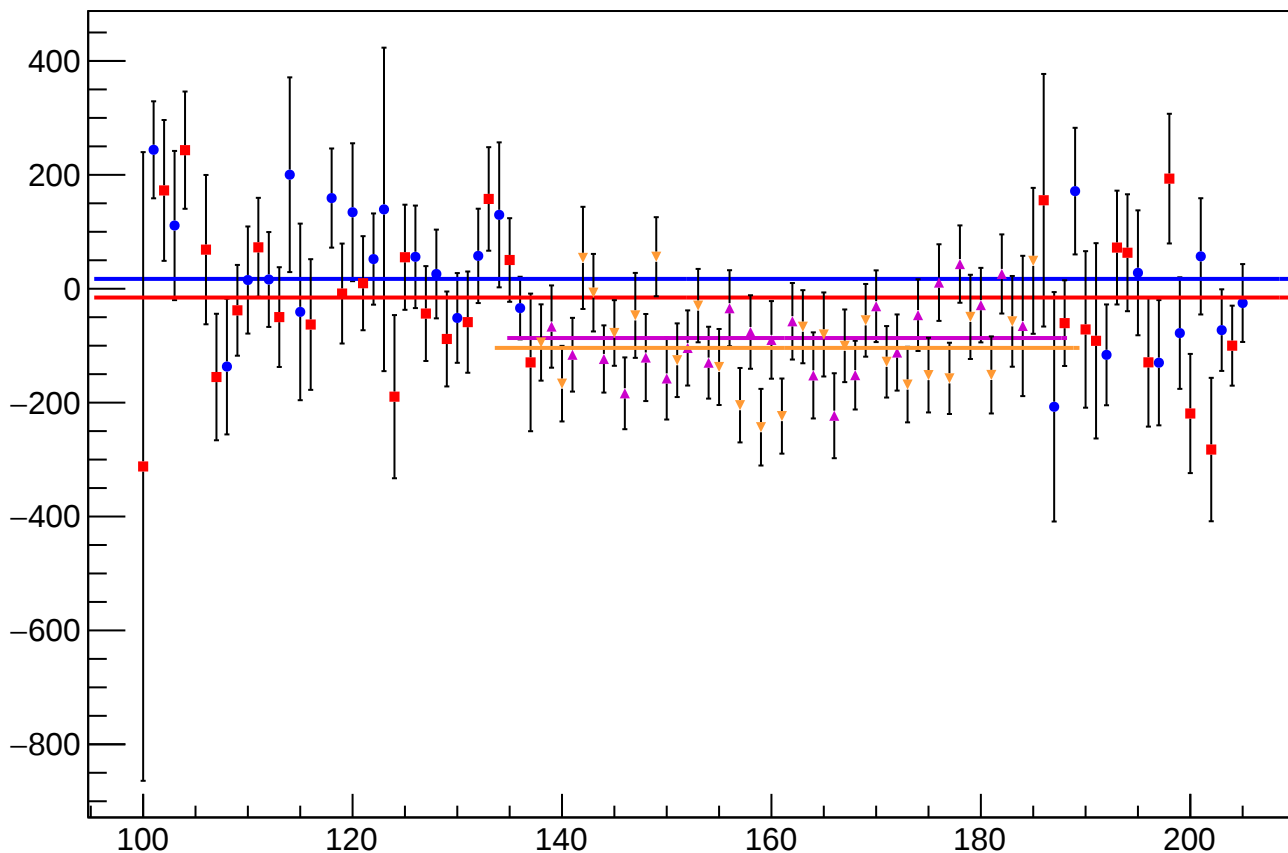
Right: 1367.169+/-0.199 χ^2/NDF : 6738275.0/55

In: 1036.720+/-0.140 χ^2/NDF : 5276212.3/48

Out: 1034.847+/-0.135 χ^2/NDF : 6549509.0/54

All: 1035.756+/-0.097 χ^2/NDF : 11825814.0/100

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 17.277 ± 18.371 χ^2/NDF : 27.6/25

Left Out: -103.899 ± 13.642 χ^2/NDF : 30.0/24

Right Out: -15.439 ± 18.191 χ^2/NDF : 37.7/29

Left In: -86.542 ± 14.120 χ^2/NDF : 21.4/22

Left: -95.520 ± 9.811 χ^2/NDF : 52.1/47

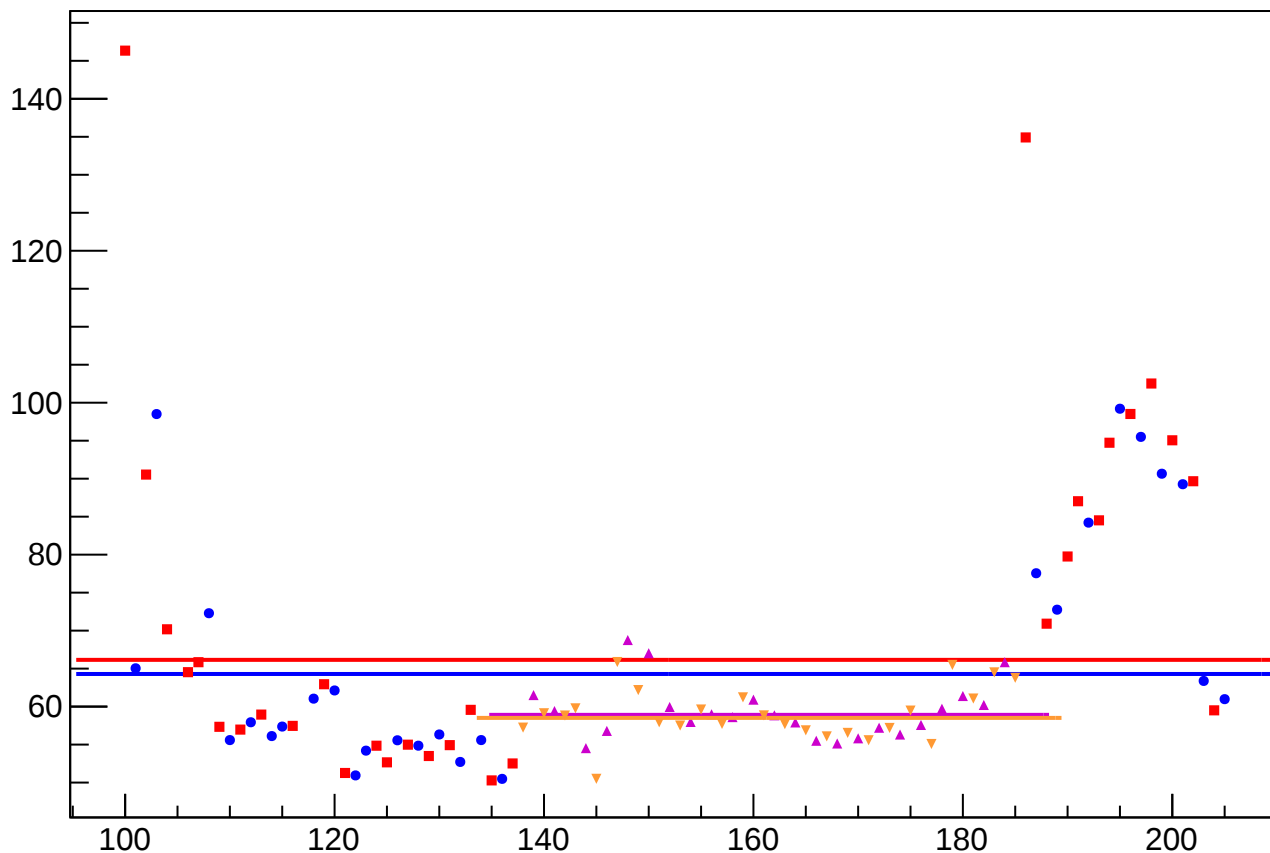
Right: 0.758 ± 12.926 χ^2/NDF : 67.0/55

In: -47.987 ± 11.195 χ^2/NDF : 69.1/48

Out: -72.058 ± 10.914 χ^2/NDF : 82.8/54

All: -60.328 ± 7.815 χ^2/NDF : 154.3/103

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.293+/-0.013 χ^2/NDF : 1242256.4/25

Left Out: 58.513+/-0.010 χ^2/NDF :123221.6/24

Right Out: 66.153+/-0.013 χ^2/NDF : 1641912.8/29

Left In: 58.913+/-0.010 χ^2/NDF :109968.0/22

Left: 58.706+/-0.007 χ^2/NDF : 234021.7/47

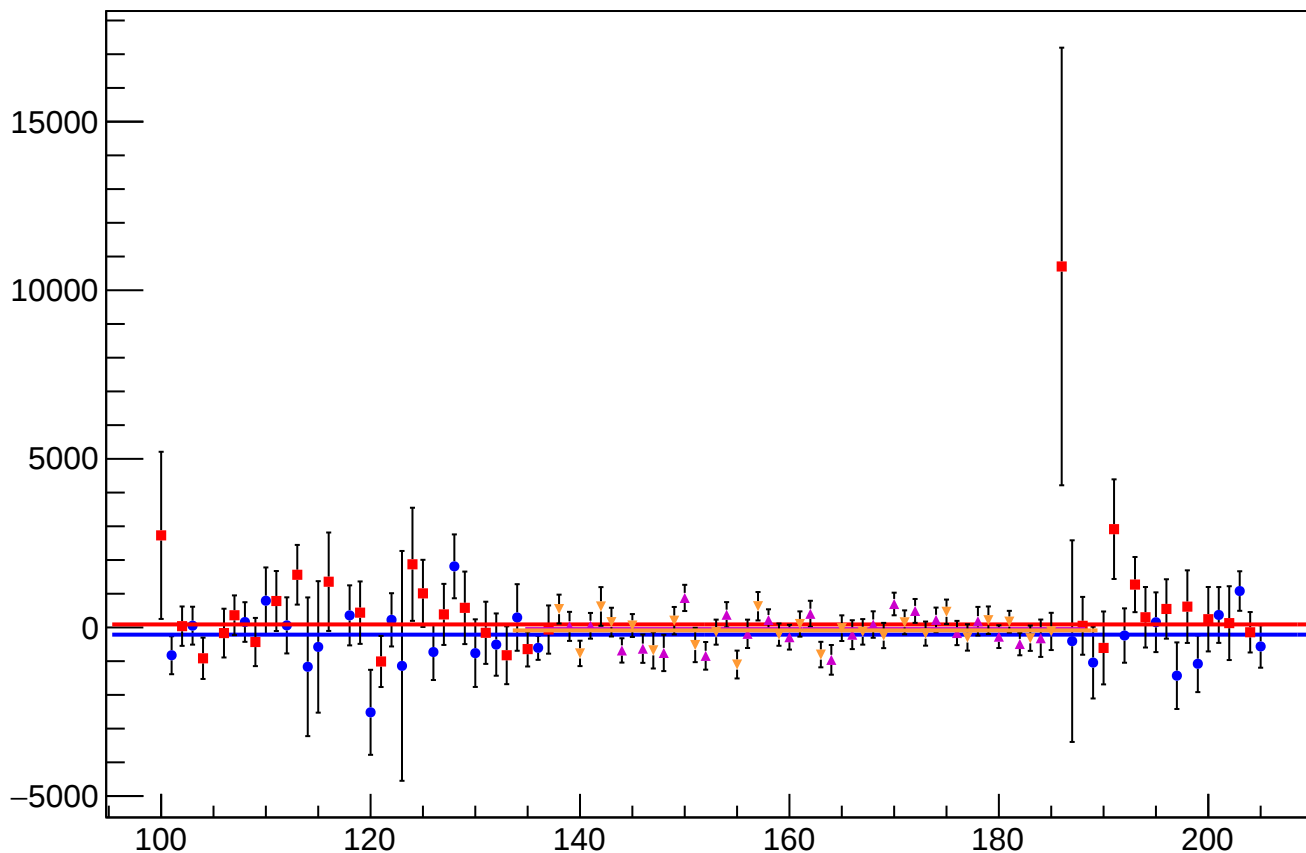
Right: 65.232+/-0.009 χ^2/NDF : 2894512.9/55

In: 60.911+/-0.008 χ^2/NDF :1460052.6/48

Out: 61.263+/-0.008 χ^2/NDF :1990907.0/54

All: 61.092+/-0.006 χ^2/NDF : 3451970.8/103

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -213.286 ± 153.329 $\chi^2/\text{NDF}: 23.2/25$

Left Out: -87.459 ± 78.556 $\chi^2/\text{NDF}: 27.7/24$

Right Out: 89.805 ± 153.506 $\chi^2/\text{NDF}: 26.2/29$

Left In: -48.742 ± 80.548 $\chi^2/\text{NDF}: 35.3/22$

Left: -68.585 ± 56.239 $\chi^2/\text{NDF}: 63.2/47$

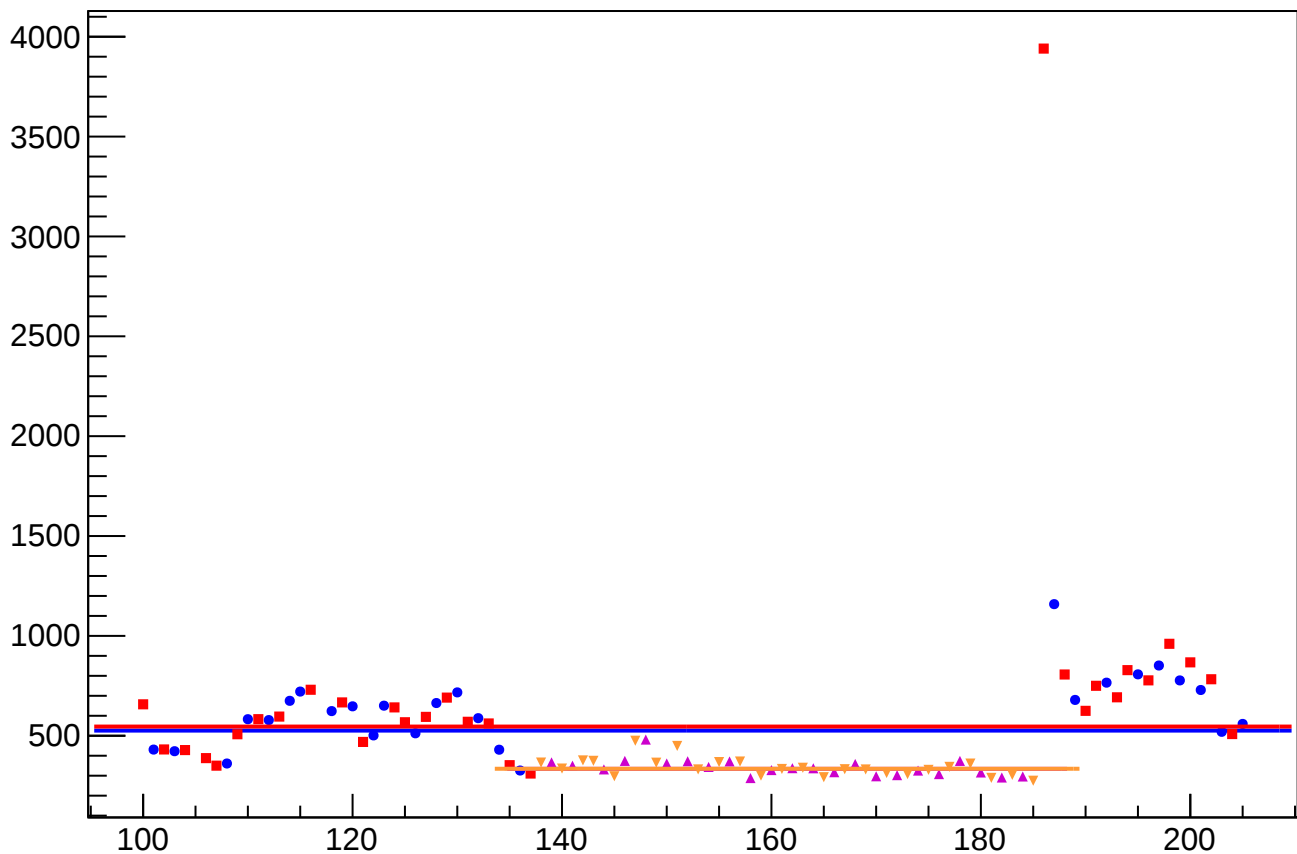
Right: -61.915 ± 108.483 $\chi^2/\text{NDF}: 51.4/55$

In: -84.329 ± 71.307 $\chi^2/\text{NDF}: 59.4/48$

Out: -50.670 ± 69.931 $\chi^2/\text{NDF}: 55.0/54$

All: -67.172 ± 49.928 $\chi^2/\text{NDF}: 114.6/103$

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 525.821+/-0.108 χ^2/NDF : 2181646.6/25

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 545.973+/-0.109 χ^2/NDF : 2928804.6/29

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

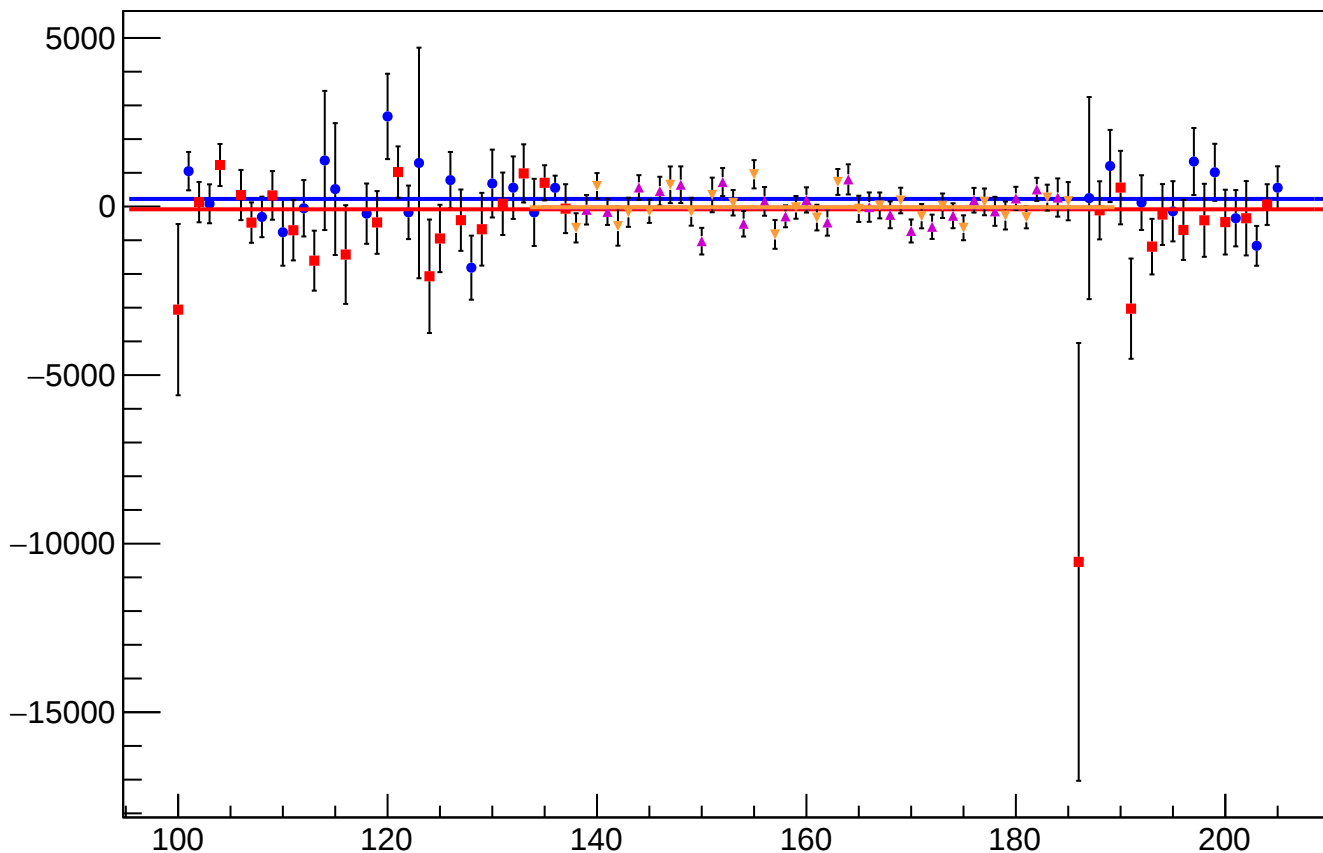
Right: 535.886+/-0.077 χ^2/NDF : 5127704.8/55

In: 375.602+/-0.050 χ^2/NDF : 5028306.3/48

Out: 378.585+/-0.049 χ^2/NDF : 6421036.1/54

All: 377.123+/-0.035 χ^2/NDF : 11451126.5/10

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 225.634 $\pm$ 154.912 χ^2/NDF : 24.5/25

Left Out: -20.895 $\pm$ 79.812 χ^2/NDF :27.2/24

Right Out: -82.358 $\pm$ 155.157 χ^2/NDF : 29.5/29

Left In: -31.800 $\pm$ 81.839 χ^2/NDF :34.0/22

Left: -26.211 $\pm$ 57.139 χ^2/NDF : 61.3/47

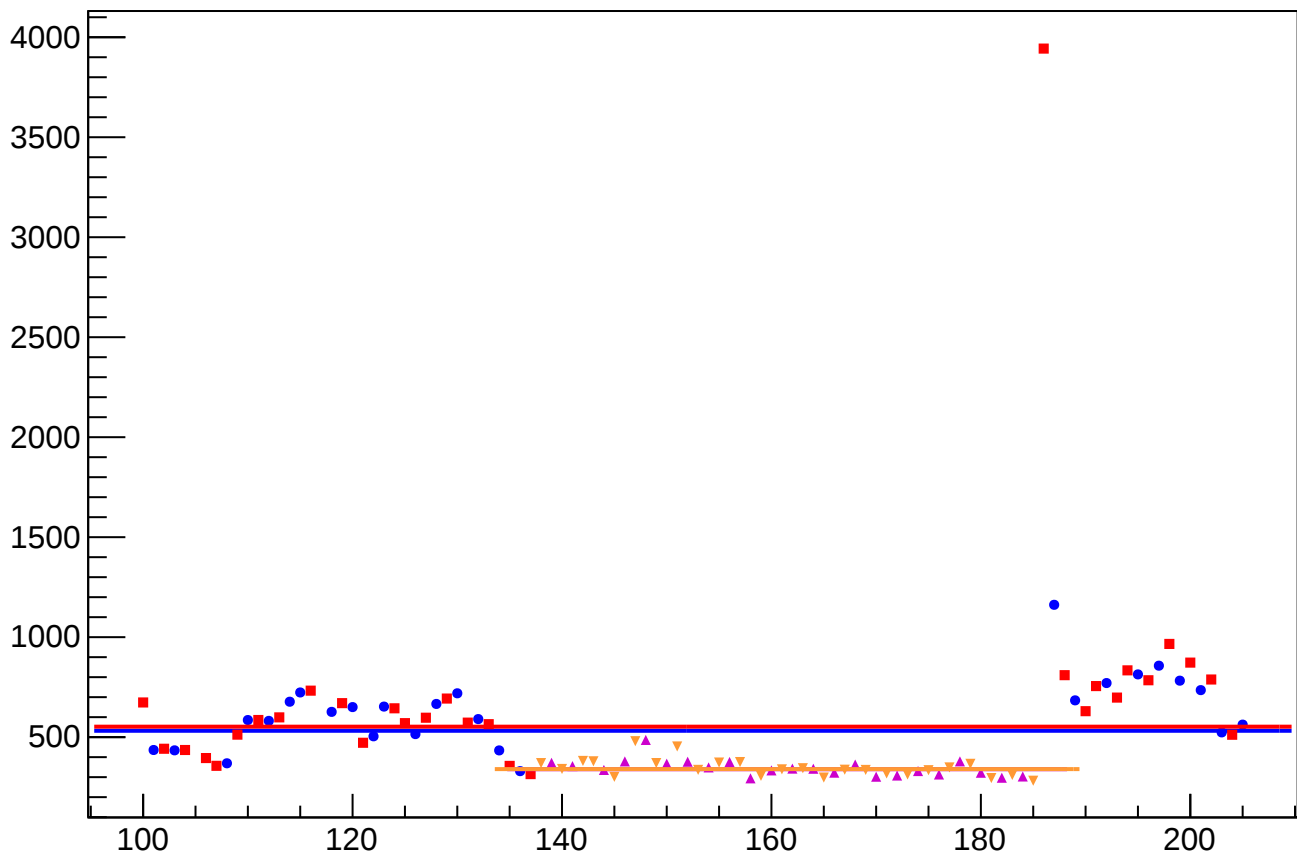
Right: 71.881 $\pm$ 109.626 χ^2/NDF : 56.0/55

In: 24.371 $\pm$ 72.362 χ^2/NDF :60.7/48

Out: -33.755 $\pm$ 70.973 χ^2/NDF :56.8/54

All: -5.255 $\pm$ 50.669 χ^2/NDF : 117.9/103

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 531.920+/-0.110 χ^2/NDF : 2125727.2/25

Left Out: 340.238+/-0.056 χ^2/NDF : 468863.6/24

Right Out: 552.430+/-0.110 χ^2/NDF : 2867441.5/29

Left In: 339.621+/-0.058 χ^2/NDF : 379808.1/22

Left: 339.937+/-0.040 χ^2/NDF : 848729.8/47

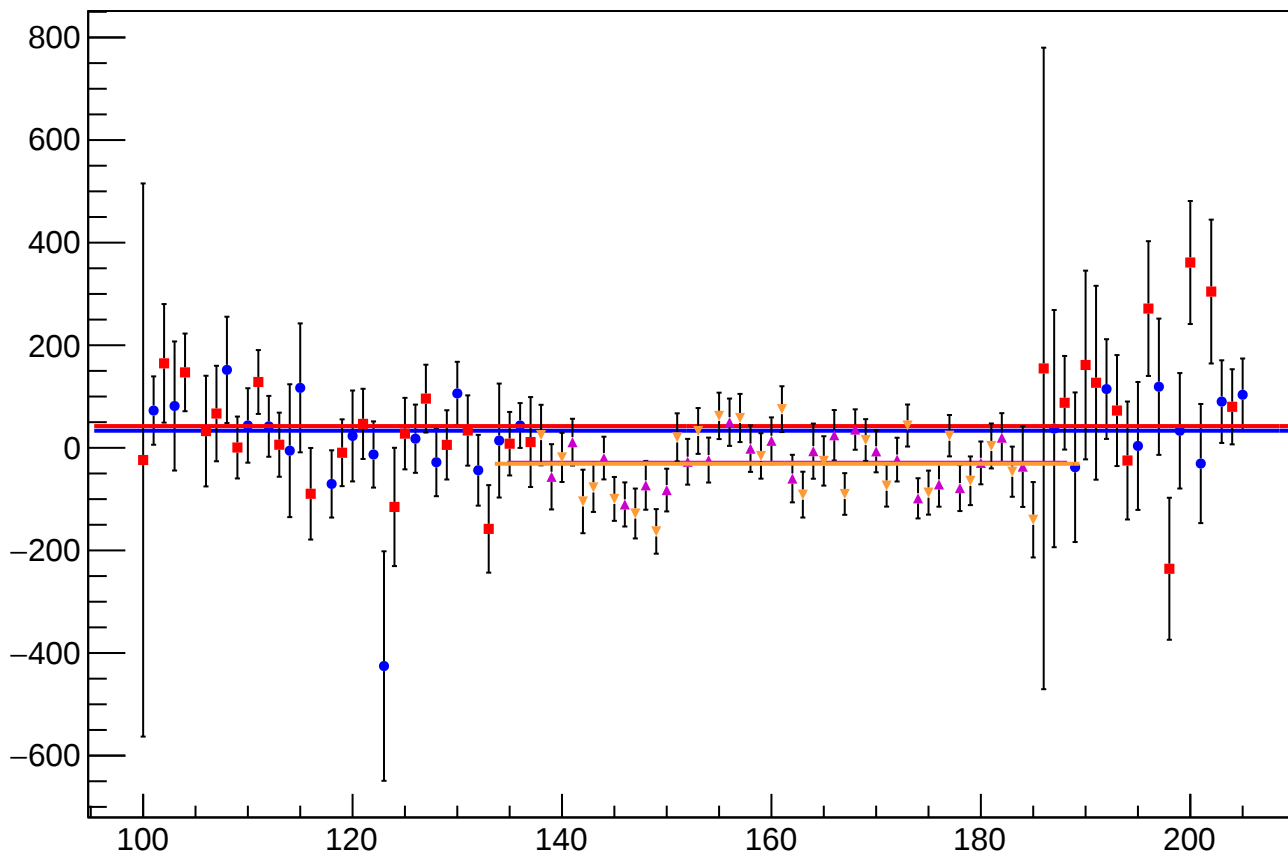
Right: 542.159+/-0.078 χ^2/NDF : 5010668.7/55

In: 381.580+/-0.051 χ^2/NDF : 4914940.6/48

Out: 384.636+/-0.050 χ^2/NDF : 6294254.2/54

All: 383.138+/-0.036 χ^2/NDF : 11211012.5/100

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 33.368 ± 15.950 $\chi^2/\text{NDF}: 16.4/25$

Left Out: -31.063 ± 9.170 $\chi^2/\text{NDF}: 52.6/24$

Right Out: 42.417 ± 15.718 $\chi^2/\text{NDF}: 36.7/29$

Left In: -29.055 ± 9.449 $\chi^2/\text{NDF}: 22.4/22$

Left: -30.089 ± 6.581 $\chi^2/\text{NDF}: 75.1/47$

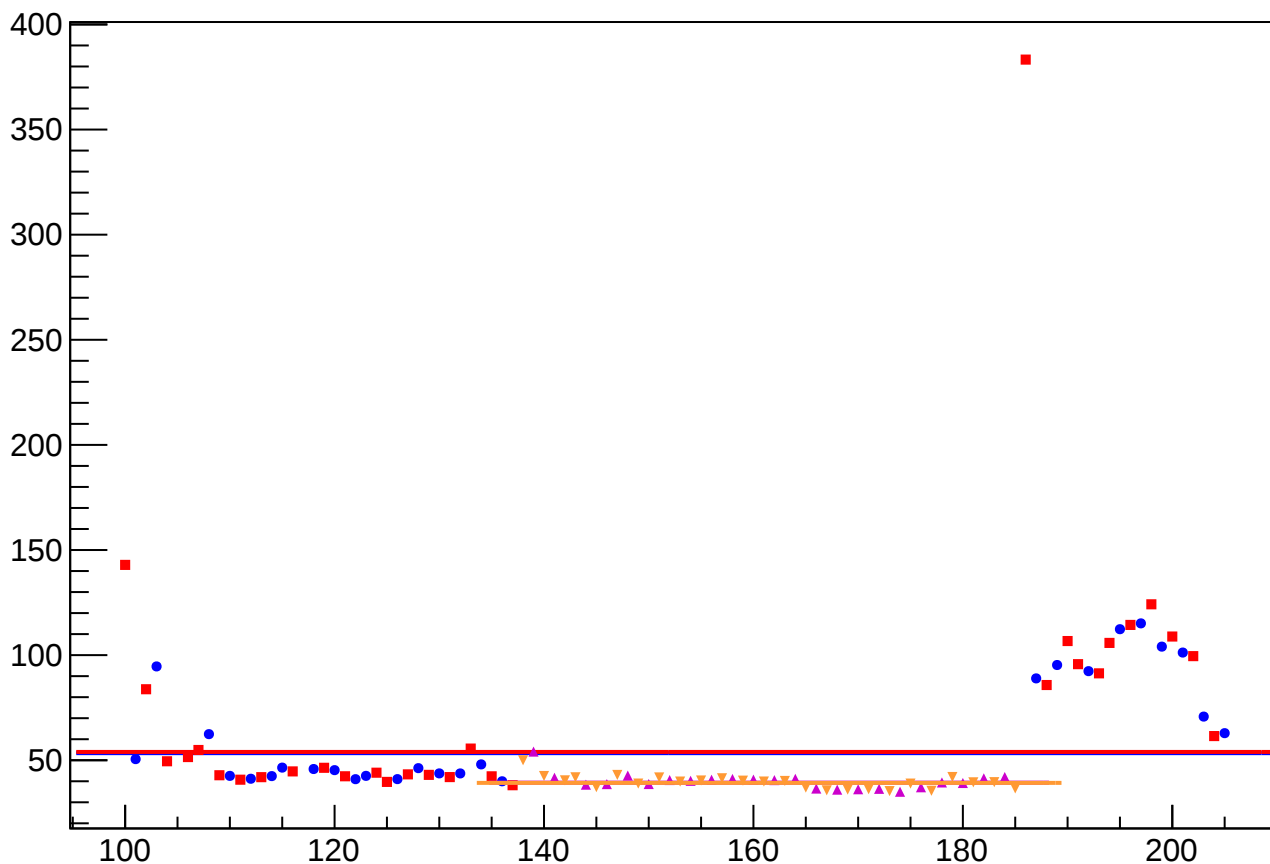
Right: 37.959 ± 11.195 $\chi^2/\text{NDF}: 53.3/55$

In: -12.837 ± 8.130 $\chi^2/\text{NDF}: 50.2/48$

Out: -12.406 ± 7.920 $\chi^2/\text{NDF}: 105.6/54$

All: -12.616 ± 5.673 $\chi^2/\text{NDF}: 155.9/103$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 53.375 $\pm$ 0.011 χ^2 /NDF: 3164864.5/25

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 53.953 $\pm$ 0.011 χ^2 /NDF: 4227970.4/29

Left In: 39.338 $\pm$ 0.007 χ^2 /NDF: 215671.3/22

Left: 39.285 $\pm$ 0.005 χ^2 /NDF: 417755.0/47

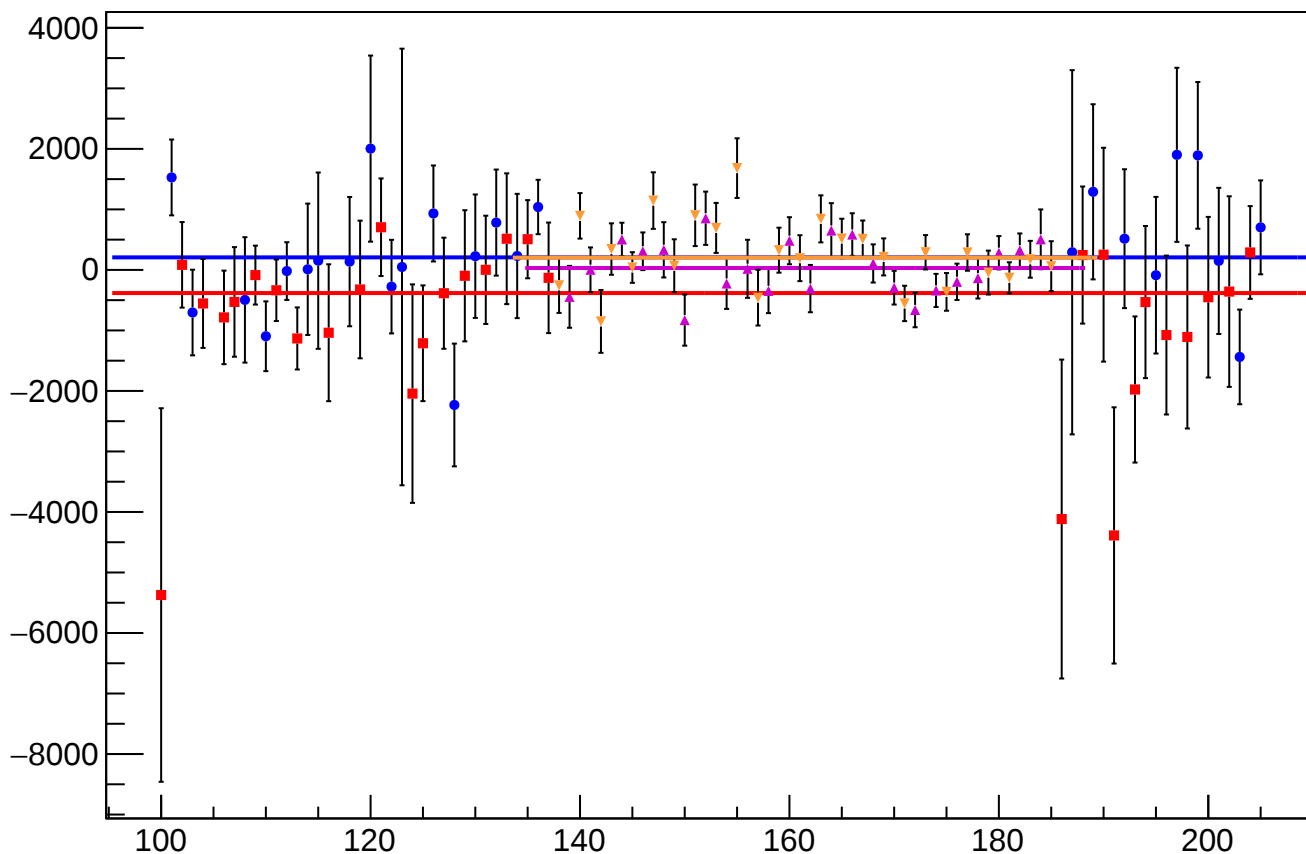
Right: 53.668 $\pm$ 0.008 χ^2 /NDF: 7394167.8/55

In: 42.985 $\pm$ 0.006 χ^2 /NDF: 4527033.6/48

Out: 42.972 $\pm$ 0.006 χ^2 /NDF: 5738152.8/54

All: 42.978 $\pm$ 0.004 χ^2 /NDF: 10265189.1/103

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 207.108 $\pm$ 168.858 χ^2 /NDF: 33.0/25

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -382.537 $\pm$ 163.414 χ^2 /NDF: 21.7/29

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

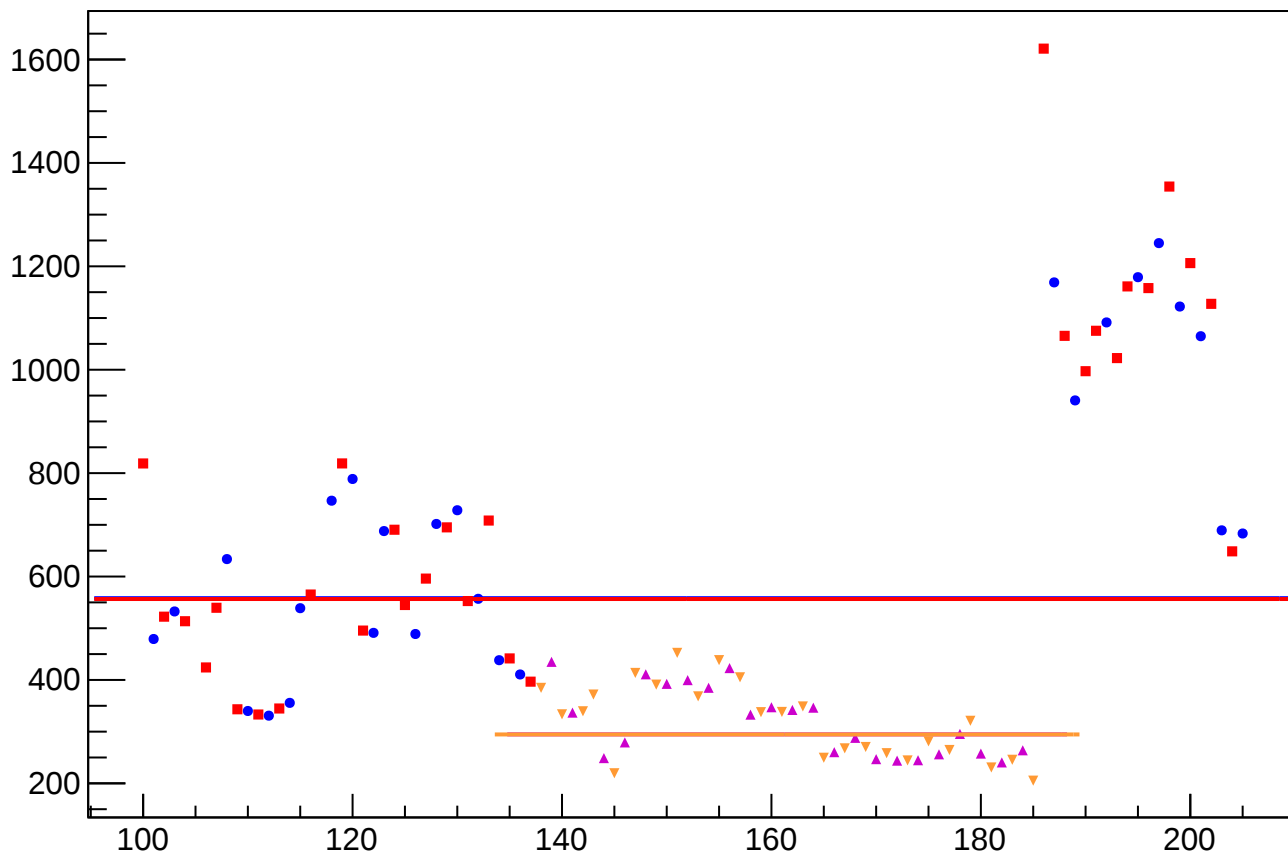
Right: -97.374 $\pm$ 117.429 χ^2 /NDF: 61.0/55

In: 58.620 $\pm$ 66.308 χ^2 /NDF:67.3/48

Out: 110.750 $\pm$ 64.675 χ^2 /NDF:77.3/54

All: 85.335 $\pm$ 46.299 χ^2 /NDF: 144.9/103

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 558.127+/-0.119 χ^2/NDF : 3798657.9/25

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 556.528+/-0.116 χ^2/NDF : 5008083.0/29

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

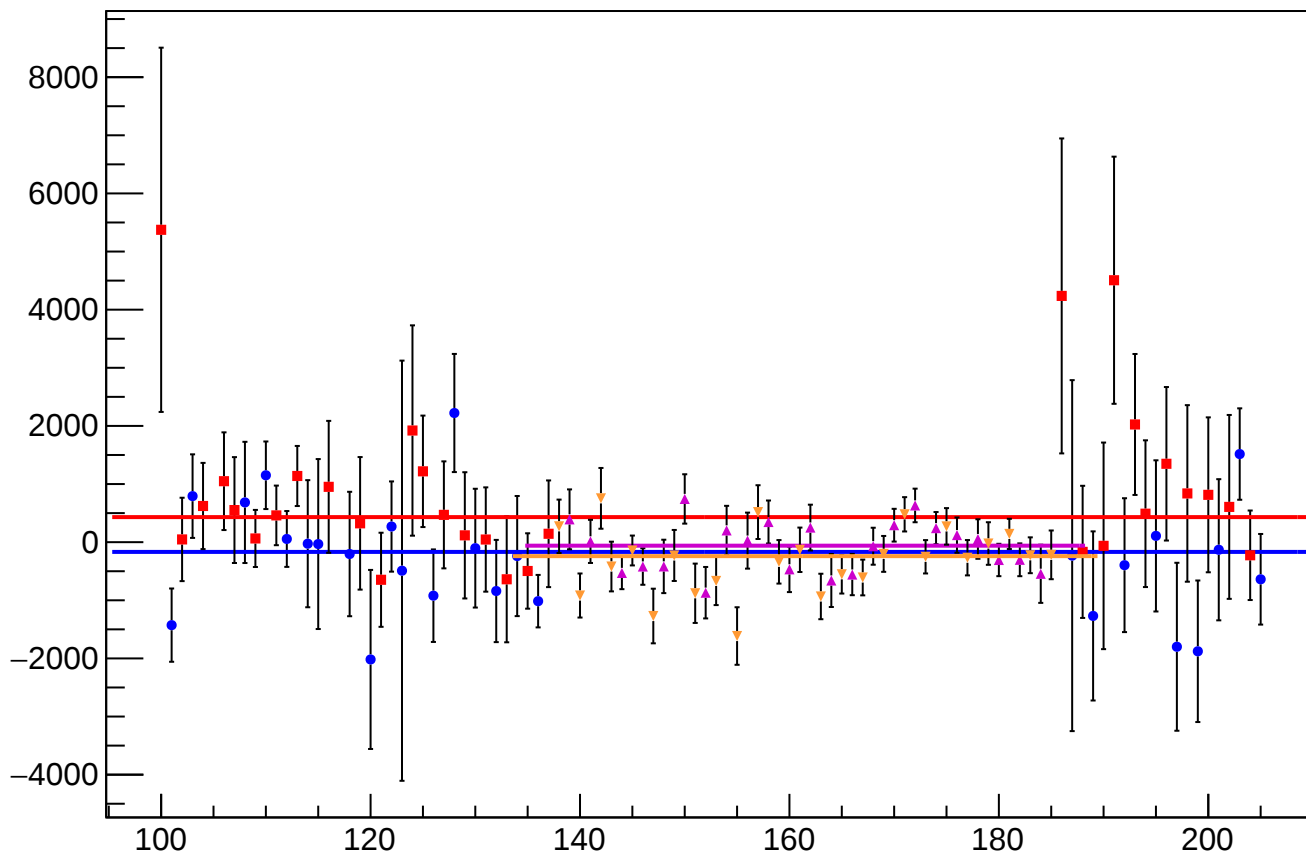
Right: 557.301+/-0.083 χ^2/NDF : 8806833.5/55

In: 335.340+/-0.047 χ^2/NDF : 9212189.4/48

Out: 335.621+/-0.046 χ^2/NDF : 11022241.8/54

All: 335.484+/-0.033 χ^2/NDF : 20234449.6/100

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -167.536 $\pm$ 169.858 χ^2 /NDF: 33.0/25

Left Out: -240.357 $\pm$ 71.100 χ^2 /NDF:42.9/24

Right Out: 431.165 $\pm$ 164.972 χ^2 /NDF: 21.7/29

Left In: -60.330 $\pm$ 72.788 χ^2 /NDF:30.9/22

Left: -152.455 $\pm$ 50.862 χ^2 /NDF: 77.0/47

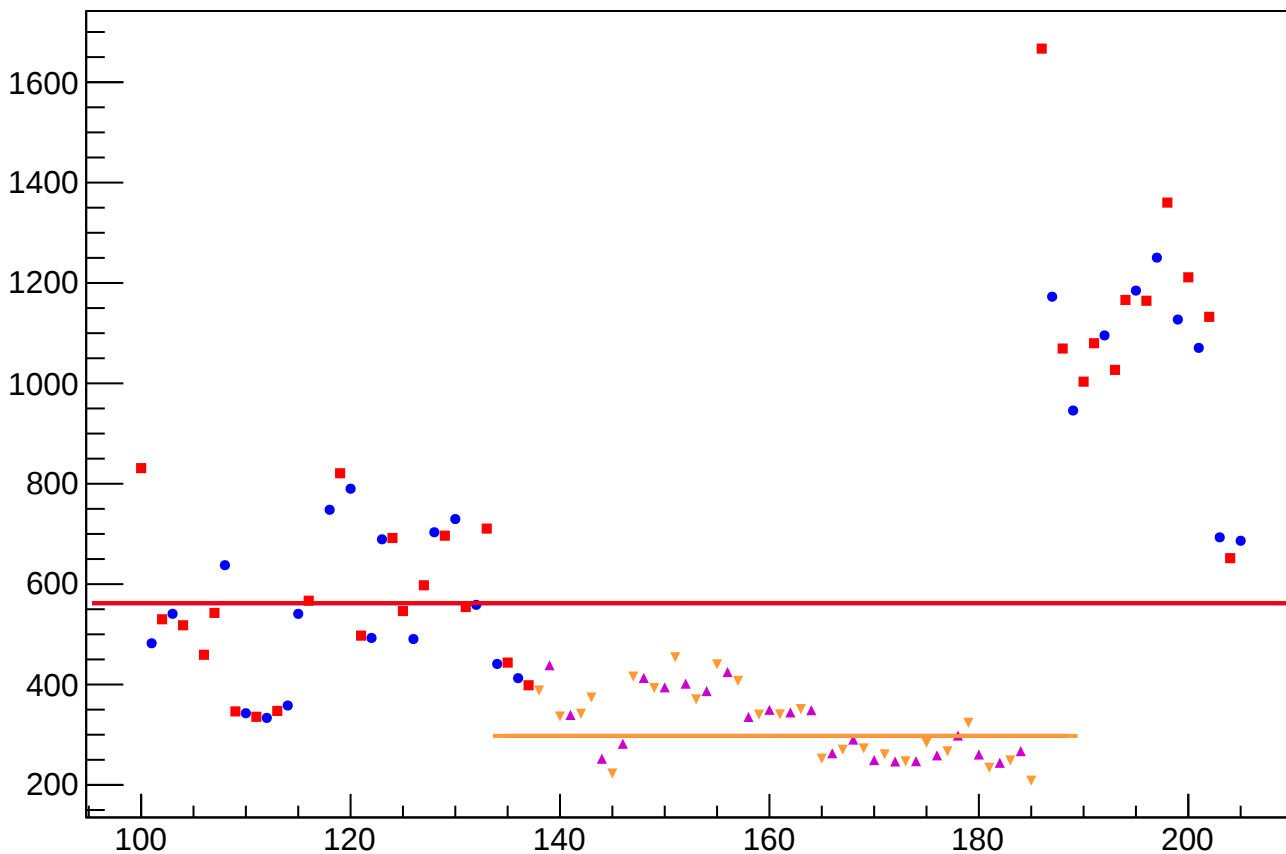
Right: 140.548 $\pm$ 118.343 χ^2 /NDF: 61.1/55

In: -76.962 $\pm$ 66.904 χ^2 /NDF:64.2/48

Out: -135.163 $\pm$ 65.294 χ^2 /NDF:78.6/54

All: -106.771 $\pm$ 46.729 χ^2 /NDF: 143.2/103

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 561.692 $\pm$ 0.120 χ^2 /NDF: 3779923.8/25

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF: 1637757.8/24

Right Out: 562.364 $\pm$ 0.117 χ^2 /NDF: 4960477.8/29

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

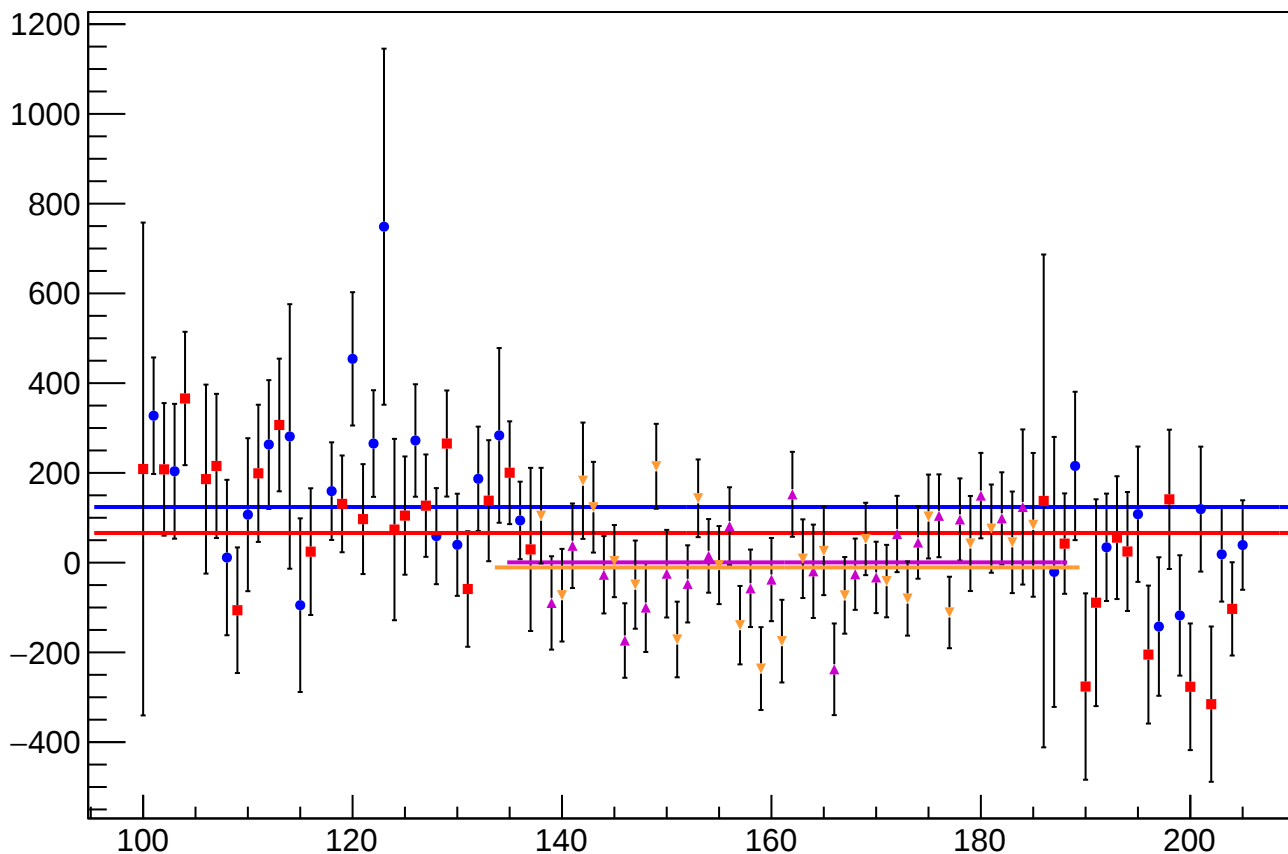
Right: 562.038 $\pm$ 0.084 χ^2 /NDF: 8740417.7/55

In: 338.656 $\pm$ 0.047 χ^2 /NDF: 9127788.5/48

Out: 339.086 $\pm$ 0.046 χ^2 /NDF: 10942258.9/54

All: 338.876 $\pm$ 0.033 χ^2 /NDF: 20070089.8/100

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 123.926 $\pm$ 26.454 χ^2 /NDF: 27.1/25

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 66.120 $\pm$ 26.298 χ^2 /NDF: 37.6/29

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

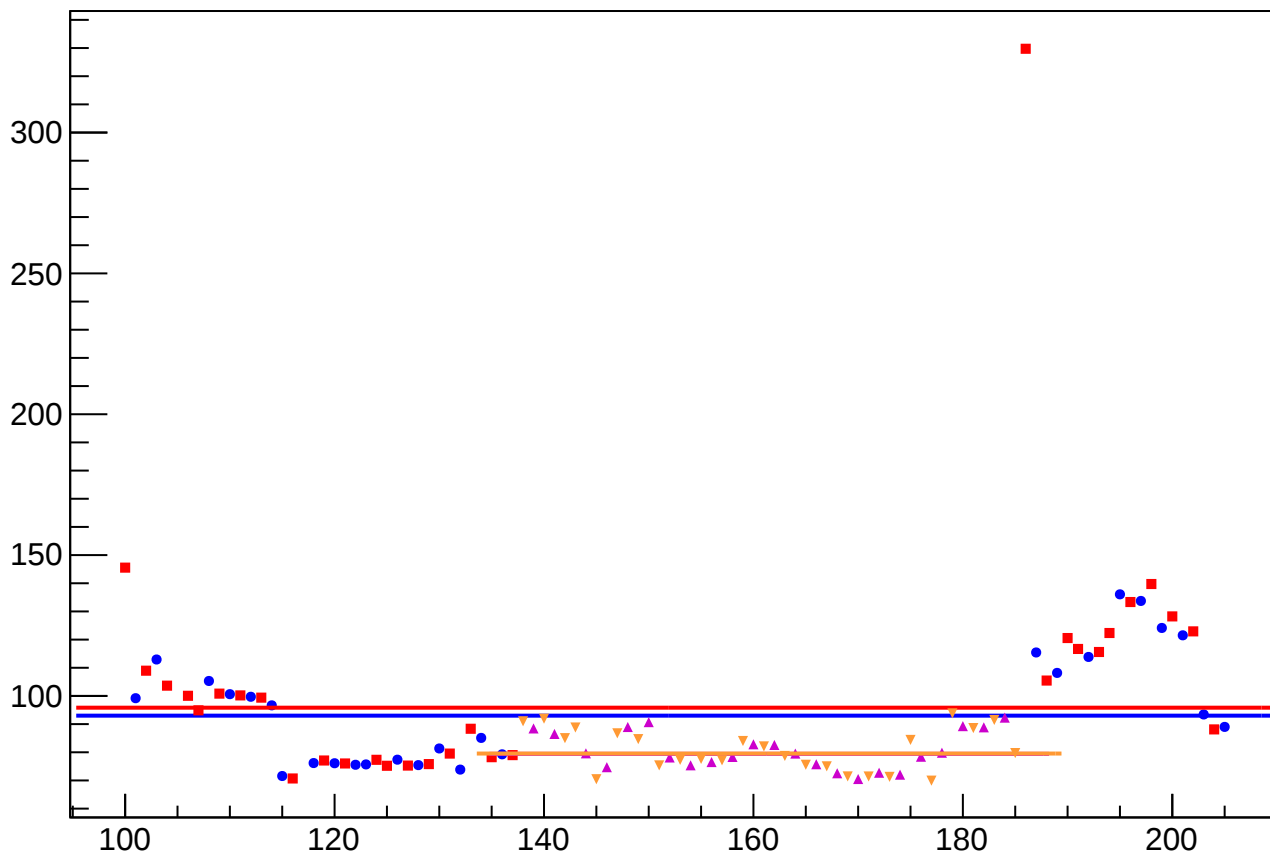
Right: 94.852 $\pm$ 18.650 χ^2 /NDF: 67.1/55

In: 42.818 $\pm$ 15.481 χ^2 /NDF:65.1/48

Out: 14.955 $\pm$ 15.191 χ^2 /NDF:79.6/54

All: 28.623 $\pm$ 10.843 χ^2 /NDF: 146.4/103

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 93.002 $\pm$ 0.019 χ^2 /NDF: 1003470.3/25

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF:309075.2/24

Right Out: 95.831 $\pm$ 0.019 χ^2 /NDF: 1499236.6/29

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

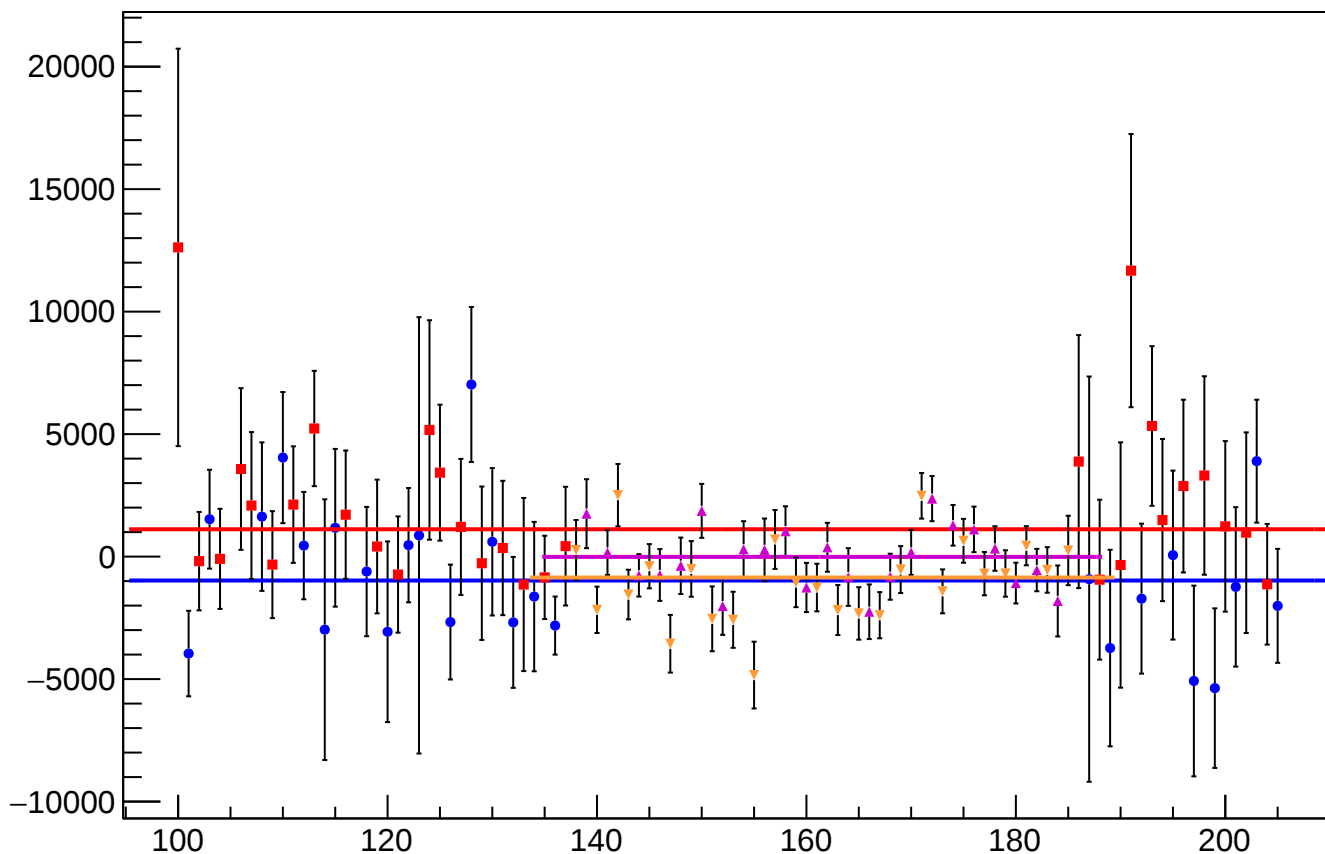
Right: 94.425 $\pm$ 0.013 χ^2 /NDF: 2514215.2/55

In: 84.082 $\pm$ 0.011 χ^2 /NDF:1561707.7/48

Out: 84.983 $\pm$ 0.011 χ^2 /NDF:2319040.6/54

All: 84.541 $\pm$ 0.008 χ^2 /NDF: 3884201.7/103

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -976.235+/-513.471 χ^2/NDF : 28.1/25

Left Out: -854.130+/-204.090 χ^2/NDF :56.0/24

Right Out: 1116.586+/-519.309 χ^2/NDF : 18.9/29

Left In: -11.687+/-210.073 χ^2/NDF :31.2/22

Left: -445.076+/-146.383 χ^2/NDF : 95.5/47

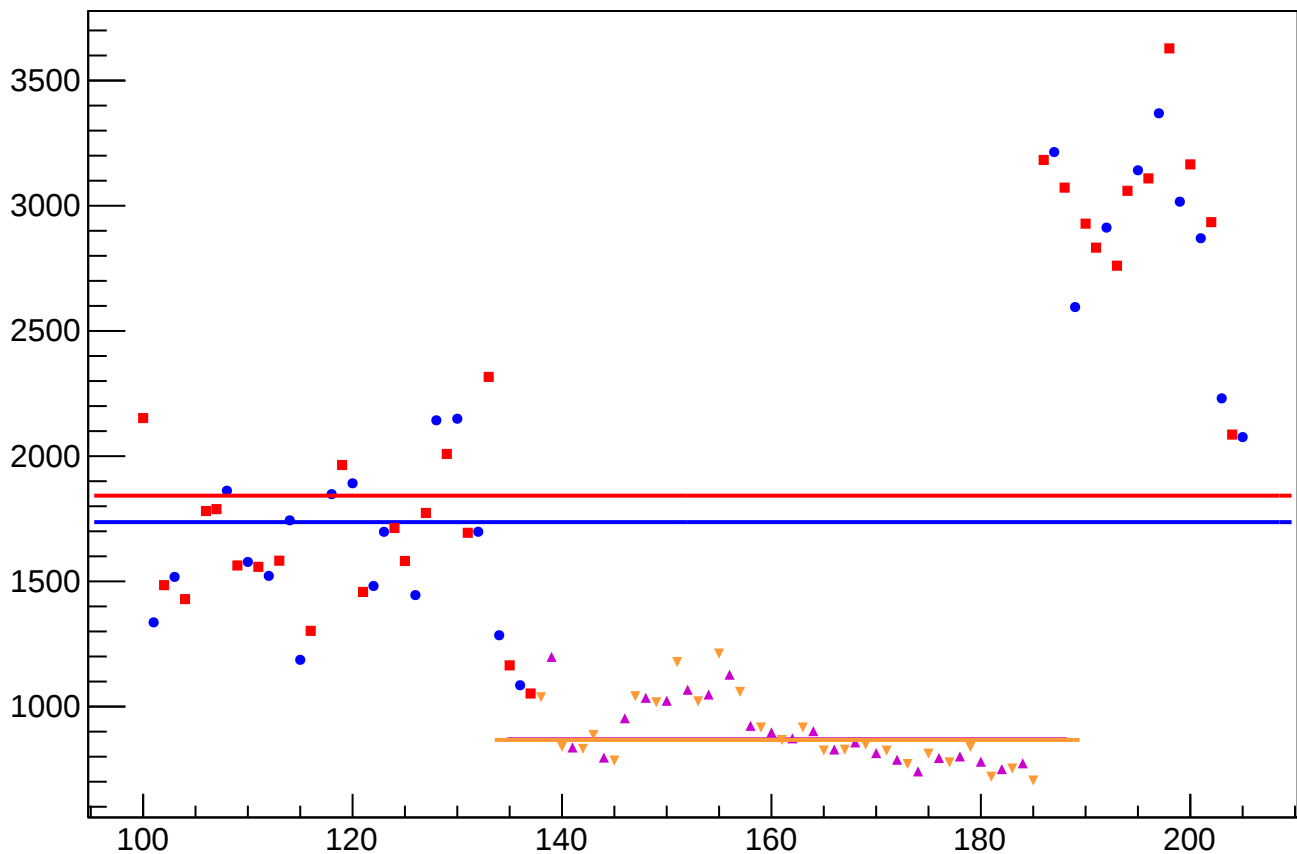
Right: 58.346+/-365.126 χ^2/NDF : 55.1/55

In: -149.986+/-194.430 χ^2/NDF :62.3/48

Out: -590.472+/-189.948 χ^2/NDF :87.3/54

All: -375.365+/-135.870 χ^2/NDF : 152.2/103

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1736.607 $\pm$ 0.363 χ^2 /NDF: 2803367.3/25

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1842.336 $\pm$ 0.367 χ^2 /NDF: 3077635.4/29

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

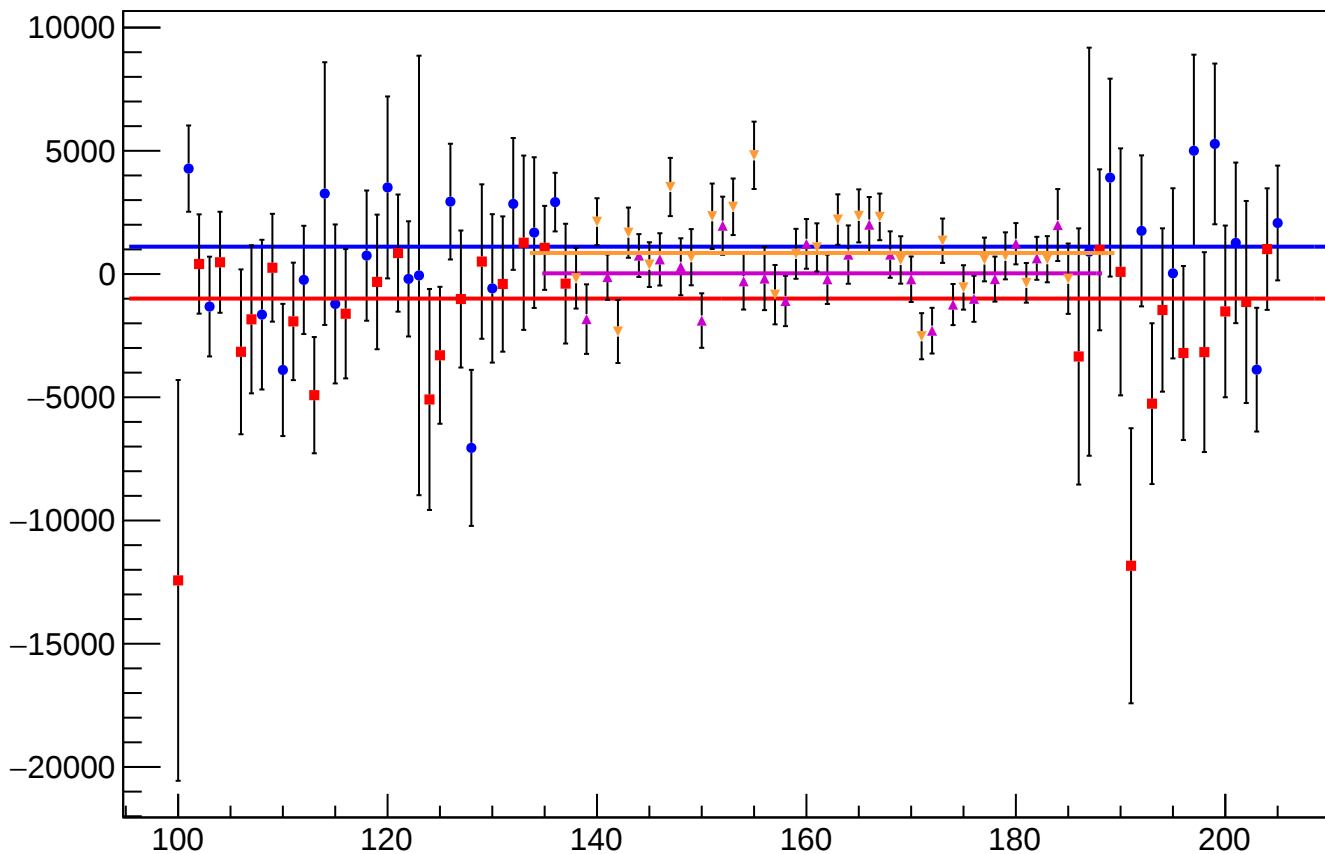
Right: 1788.874 $\pm$ 0.258 χ^2 /NDF: 5922921.9/55

In: 993.887 $\pm$ 0.137 χ^2 /NDF: 8270632.1/48

Out: 997.396 $\pm$ 0.134 χ^2 /NDF: 9851662.5/54

All: 995.682 $\pm$ 0.096 χ^2 /NDF: 18122627.9/100

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1110.214+/-514.400 χ^2/NDF : 28.6/25

Left Out: 855.664+/-205.047 χ^2/NDF : 54.1/24

Right Out: -995.736+/-520.342 χ^2/NDF : 18.6/29

Left In: 28.553+/-211.034 χ^2/NDF : 29.7/22

Left: 454.007+/-147.061 χ^2/NDF : 91.7/47

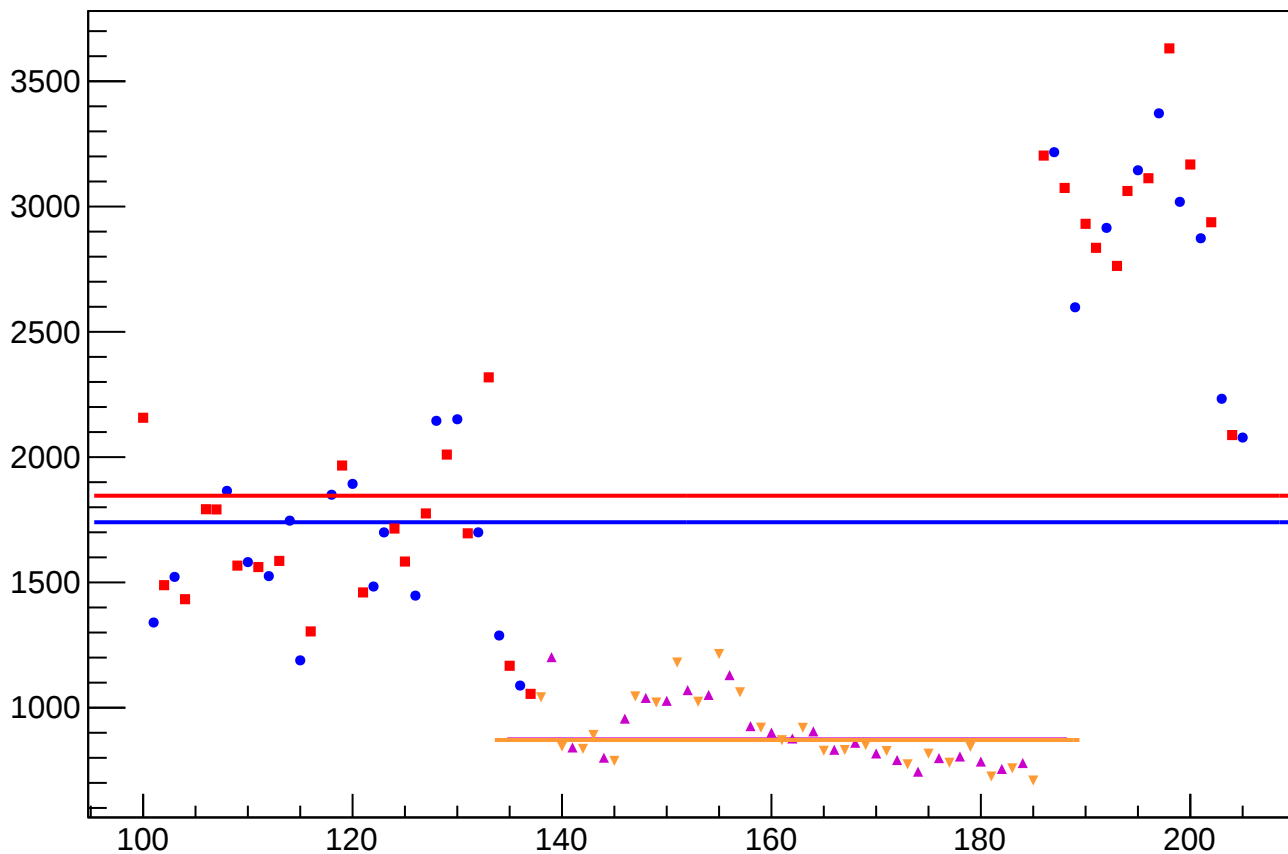
Right: 69.332+/-365.819 χ^2/NDF : 55.5/55

In: 184.377+/-195.242 χ^2/NDF : 62.1/48

Out: 606.813+/-190.769 χ^2/NDF : 83.7/54

All: 400.490+/-136.448 χ^2/NDF : 148.2/103

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1740.177 $\pm$ 0.364 χ^2 /NDF: 2792799.0/25

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1845.994 $\pm$ 0.368 χ^2 /NDF: 3070196.1/29

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

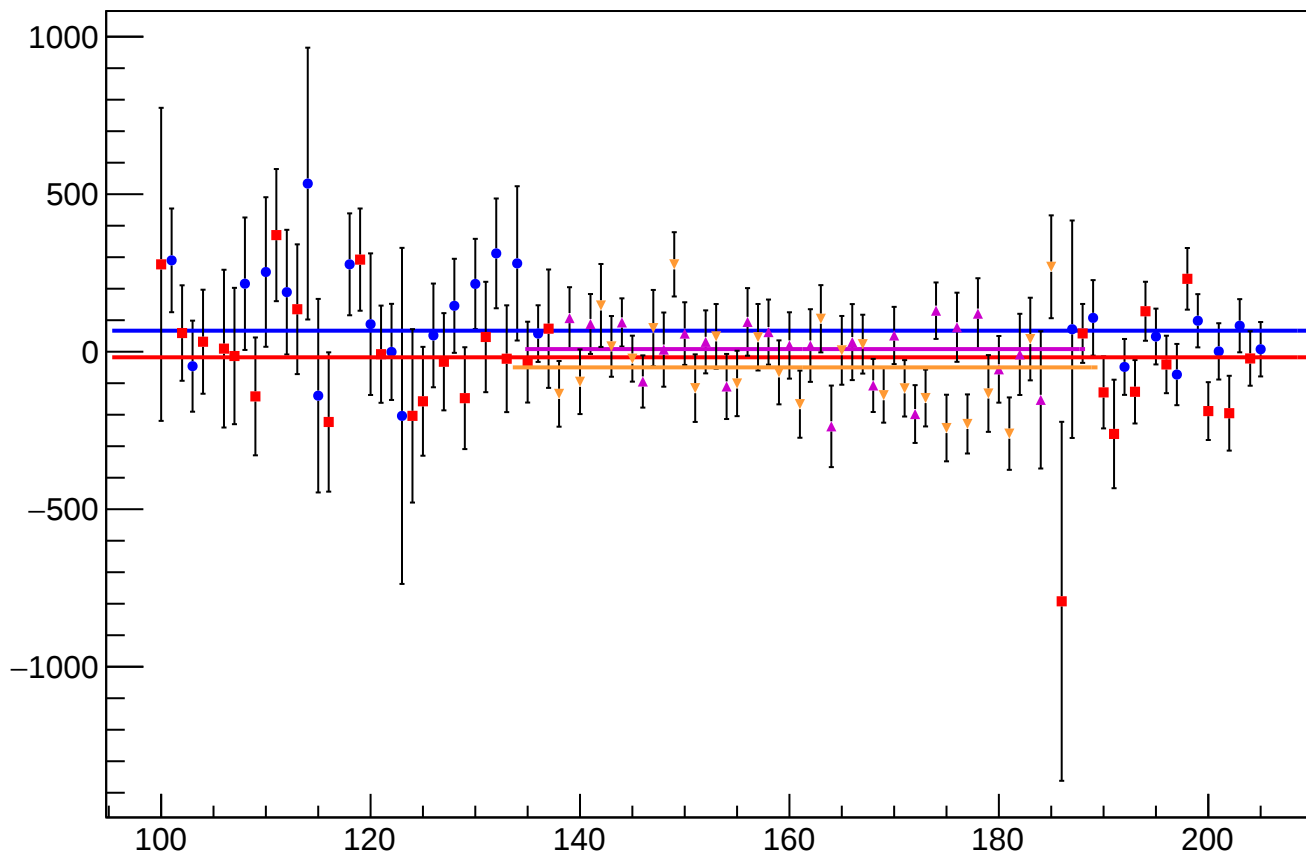
Right: 1792.478 $\pm$ 0.259 χ^2 /NDF: 5904825.8/55

In: 998.504 $\pm$ 0.138 χ^2 /NDF: 8224083.6/48

Out: 1002.146 $\pm$ 0.135 χ^2 /NDF: 9798676.2/54

All: 1000.367 $\pm$ 0.096 χ^2 /NDF: 18023115.8/107

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 66.732 ± 25.375 $\chi^2/\text{NDF}: 16.9/25$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: -17.738 ± 25.249 $\chi^2/\text{NDF}: 33.1/29$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

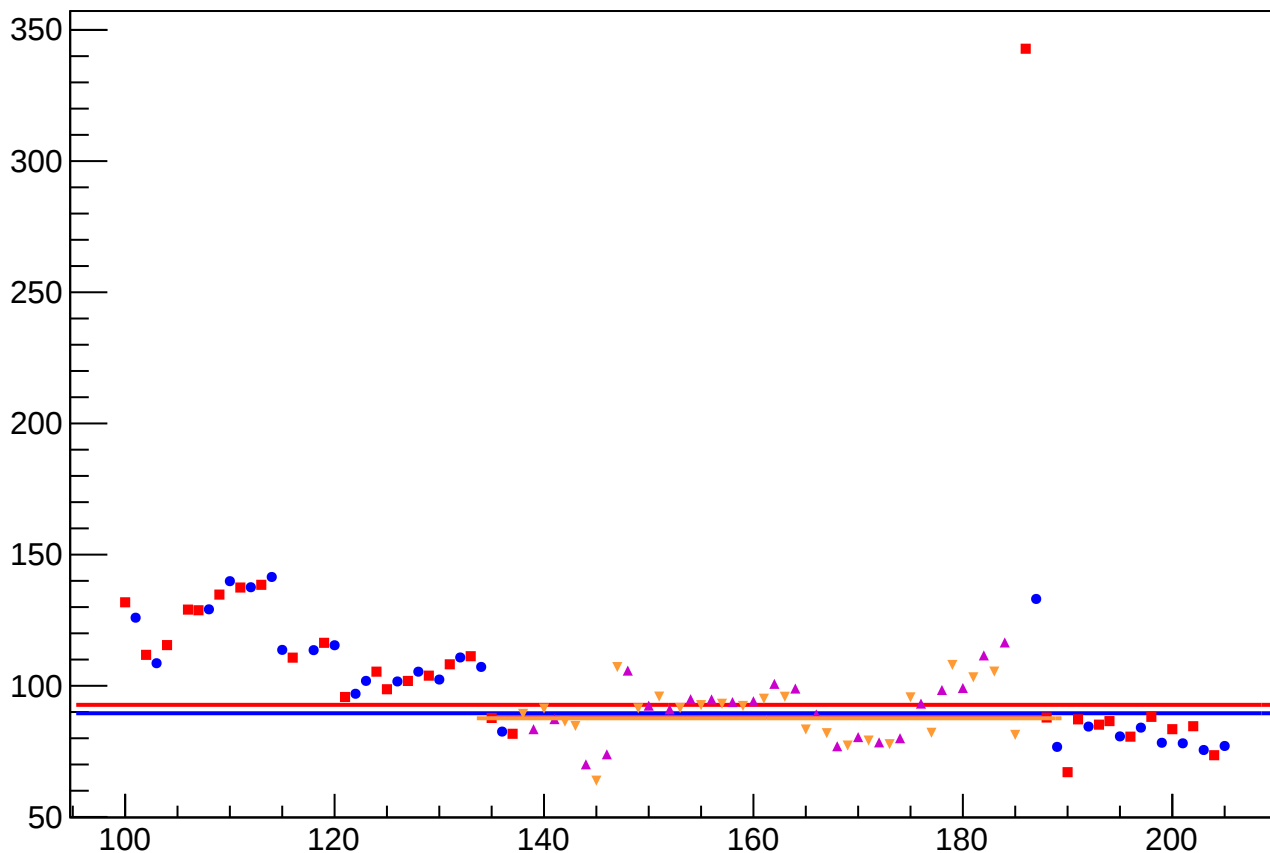
Right: 24.287 ± 17.898 $\chi^2/\text{NDF}: 55.6/55$

In: 32.440 ± 16.301 $\chi^2/\text{NDF}: 42.0/48$

Out: -36.952 ± 15.952 $\chi^2/\text{NDF}: 73.5/54$

All: -3.007 ± 11.401 $\chi^2/\text{NDF}: 124.7/103$

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 89.533+/-0.018 χ^2/NDF : 883926.2/25

Left Out: 87.625+/-0.015 χ^2/NDF : 554690.7/24

Right Out: 92.742+/-0.018 χ^2/NDF : 1280740.4/29

Left In: 88.032+/-0.015 χ^2/NDF : 523710.9/22

Left: 87.822+/-0.010 χ^2/NDF : 1078779.2/47

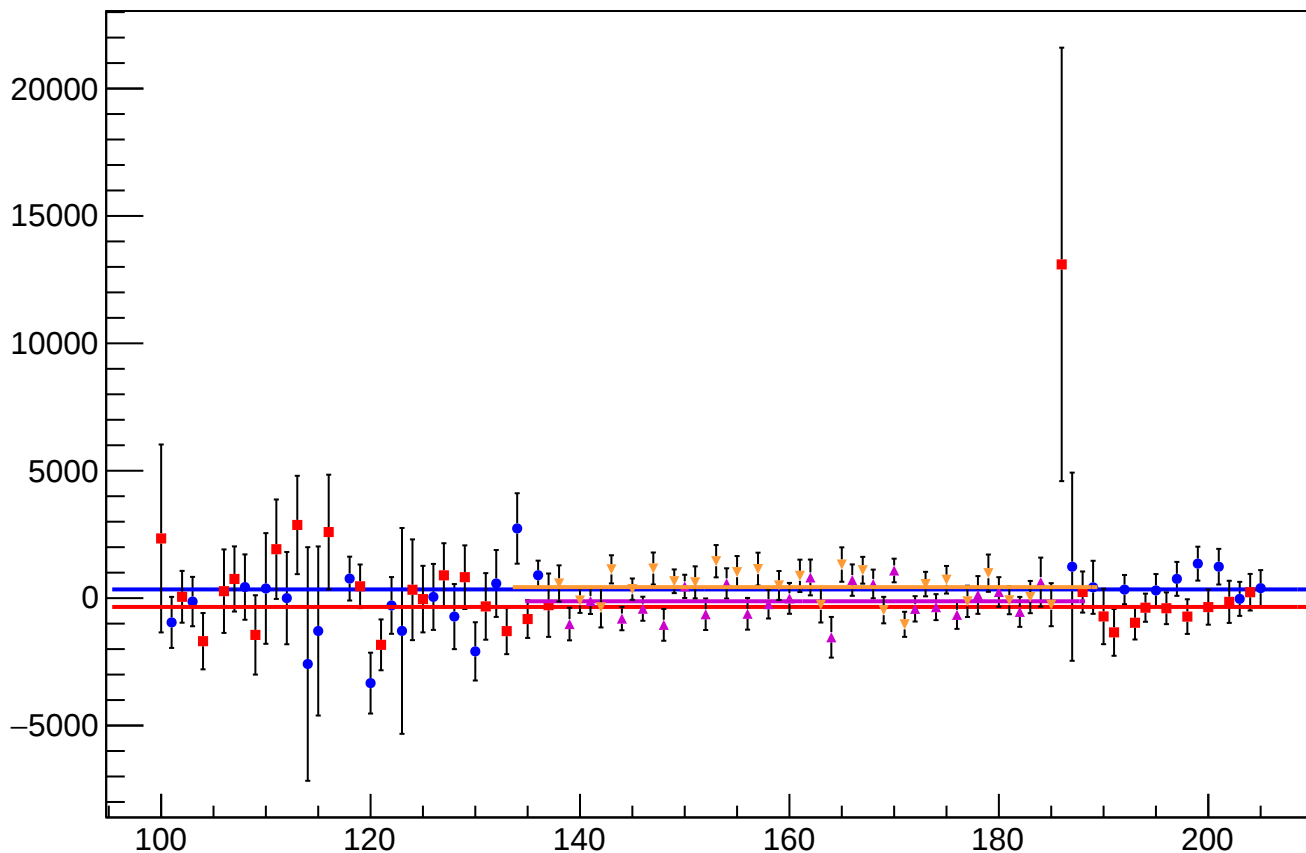
Right: 91.145+/-0.013 χ^2/NDF : 2180733.0/55

In: 88.652+/-0.012 χ^2/NDF : 1411747.1/48

Out: 89.668+/-0.011 χ^2/NDF : 1884767.4/54

All: 89.171+/-0.008 χ^2/NDF : 3300483.2/103

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 342.041+/-183.732 χ^2/NDF : 26.8/25

Left Out: 431.658+/-115.706 χ^2/NDF :30.5/24

Right Out: -345.752+/-176.339 χ^2/NDF : 22.3/29

Left In: -123.017+/-118.849 χ^2/NDF :29.3/22

Left: 161.753+/-82.905 χ^2/NDF : 70.9/47

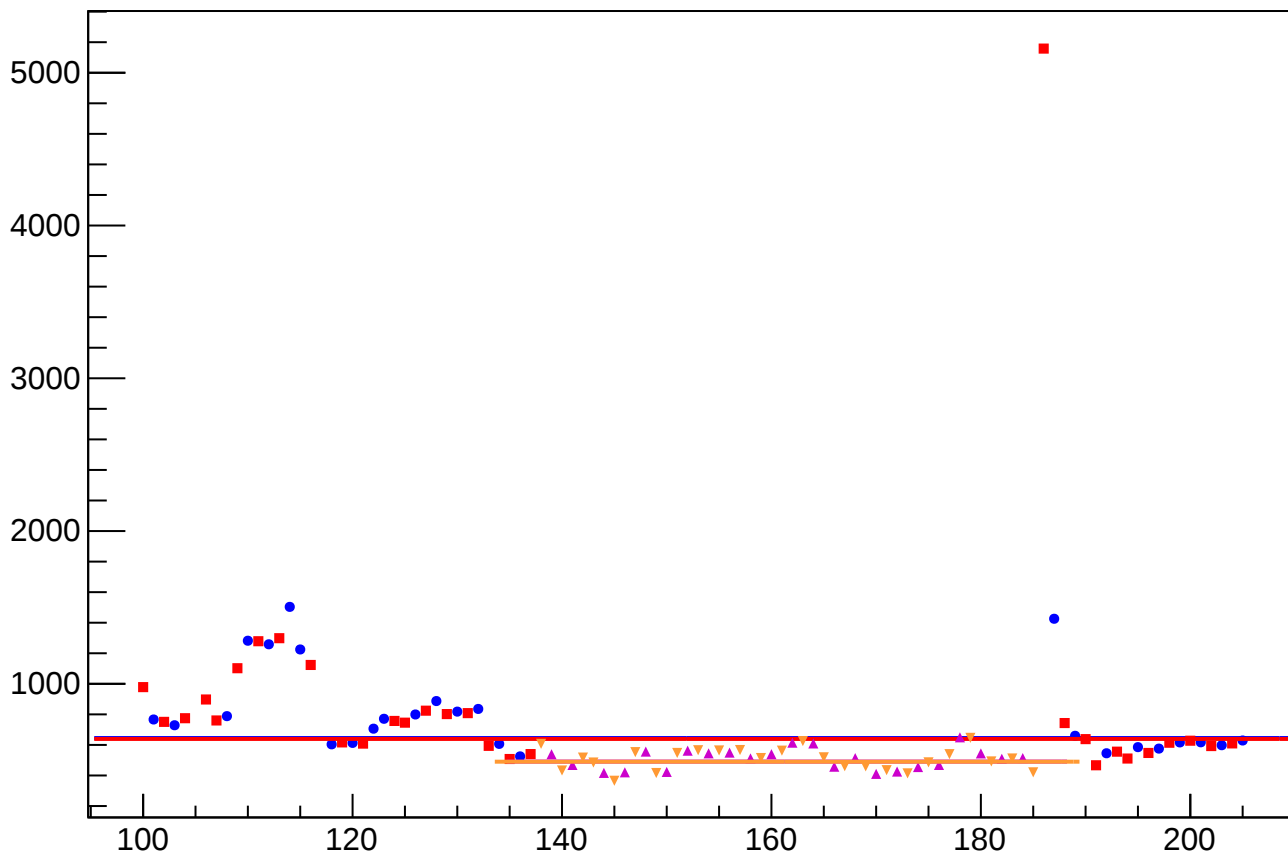
Right: -15.972+/-127.224 χ^2/NDF : 56.3/55

In: 14.173+/-99.791 χ^2/NDF :60.5/48

Out: 197.686+/-96.740 χ^2/NDF :66.3/54

All: 108.778+/-69.459 χ^2/NDF : 128.6/103

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 645.019 $\pm$ 0.130 χ^2 /NDF: 1100668.0/25

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 639.264 $\pm$ 0.125 χ^2 /NDF: 1935426.6/29

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

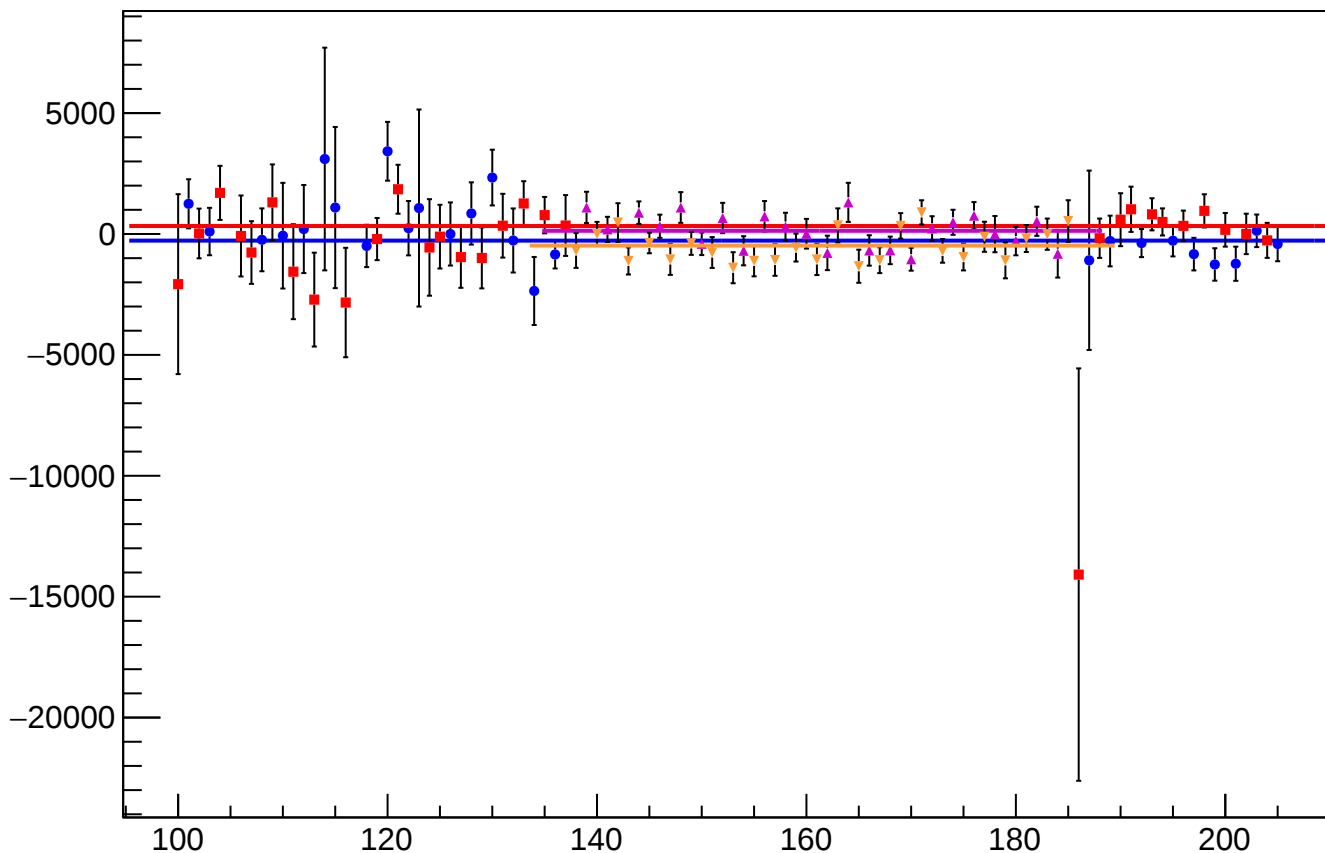
Right: 642.023 $\pm$ 0.090 χ^2 /NDF: 3037116.3/55

In: 536.371 $\pm$ 0.071 χ^2 /NDF: 2681902.9/48

Out: 535.109 $\pm$ 0.068 χ^2 /NDF: 3683834.2/54

All: 535.721 $\pm$ 0.049 χ^2 /NDF: 6365902.0/103

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -273.953+/-185.692 χ^2/NDF : 27.1/25

Left Out: -478.197+/-117.659 χ^2/NDF : 27.8/24

Right Out: 329.885+/-178.424 χ^2/NDF : 21.2/29

Left In: 132.543+/-120.866 χ^2/NDF : 29.5/22

Left: -181.037+/-84.308 χ^2/NDF : 70.5/47

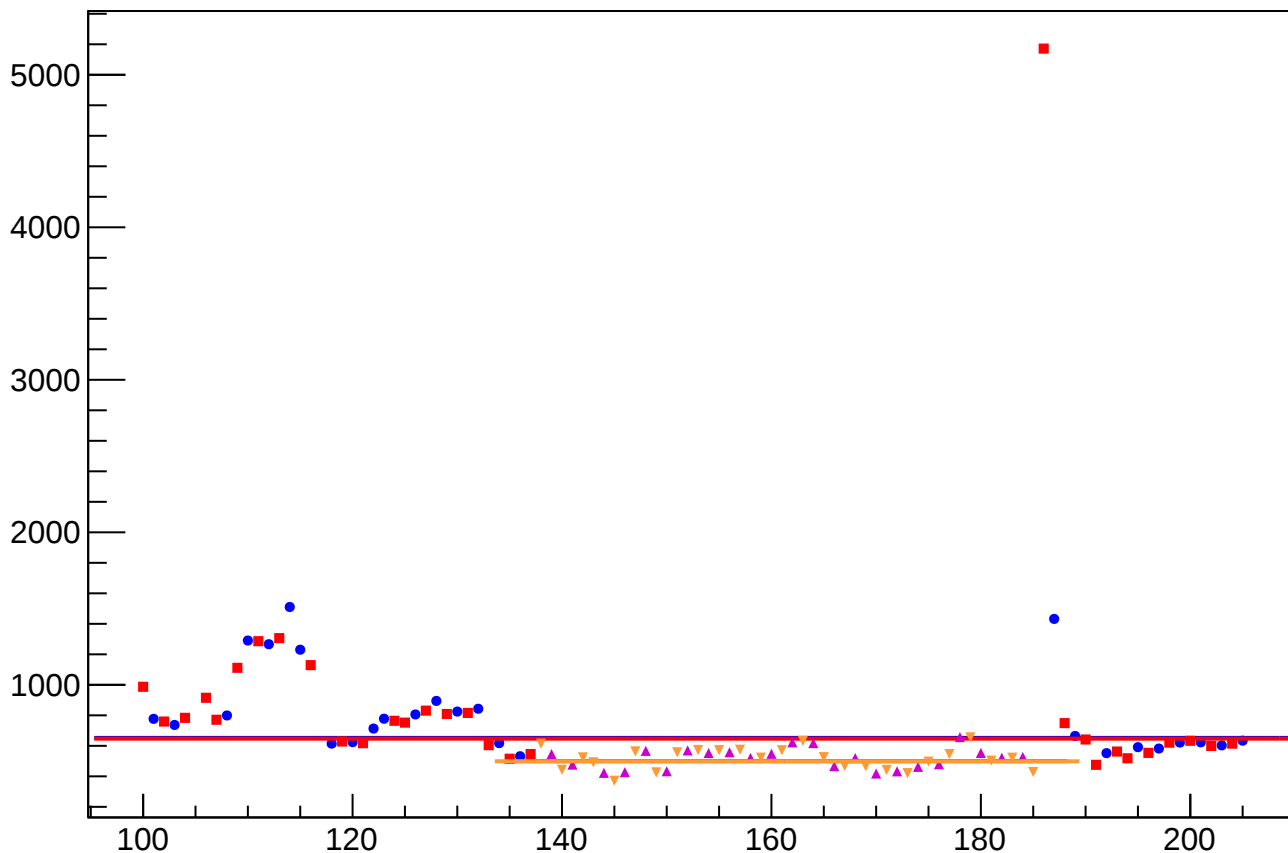
Right: 40.014+/-128.658 χ^2/NDF : 53.7/55

In: 11.575+/-101.298 χ^2/NDF : 60.0/48

Out: -233.296+/-98.225 χ^2/NDF : 63.2/54

All: -114.631+/-70.517 χ^2/NDF : 126.2/103

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 652.092 $\pm$ 0.131 χ^2 /NDF: 1089894.1/25

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 647.121 $\pm$ 0.126 χ^2 /NDF: 1914101.4/29

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

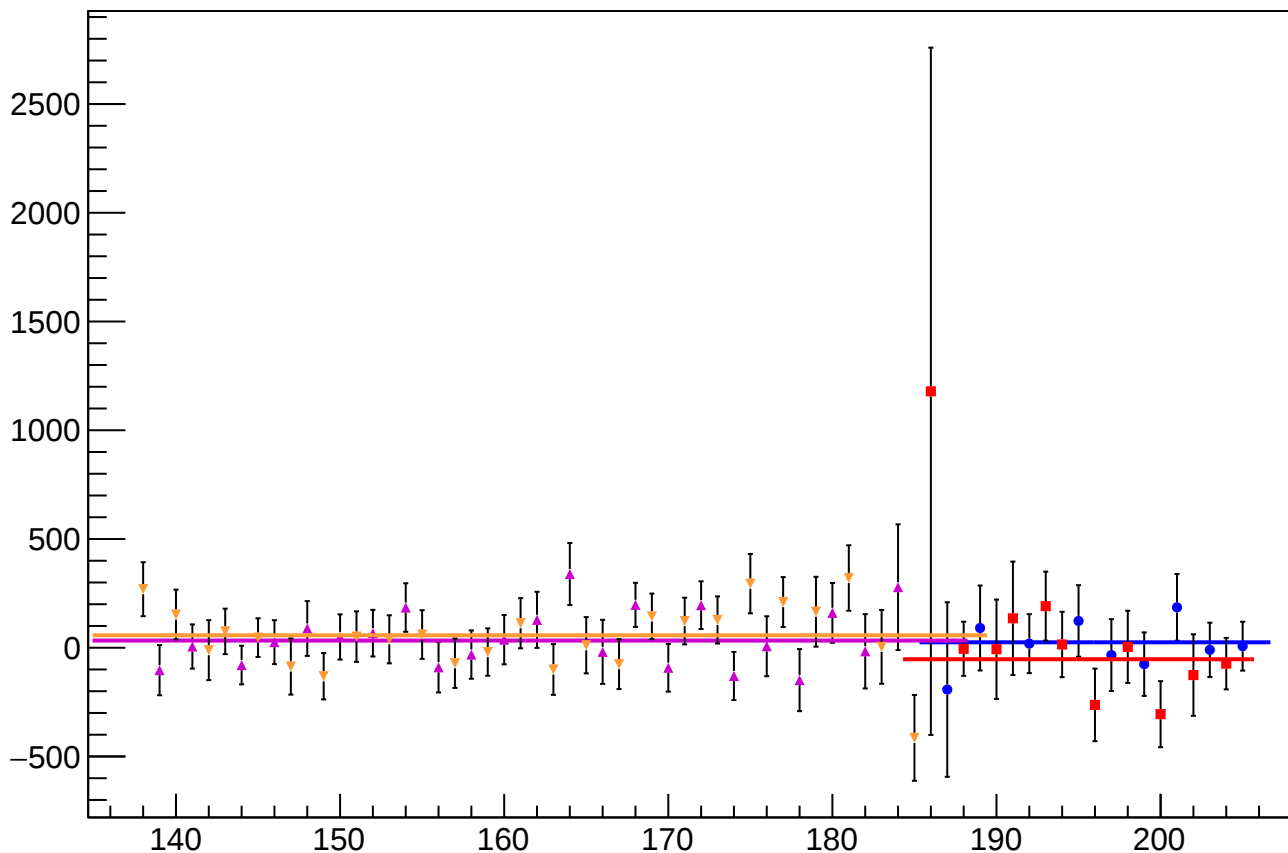
Right: 649.507 $\pm$ 0.091 χ^2 /NDF: 3004740.8/55

In: 544.834 $\pm$ 0.072 χ^2 /NDF: 2616396.0/48

Out: 543.719 $\pm$ 0.069 χ^2 /NDF: 3612202.0/54

All: 544.259 $\pm$ 0.050 χ^2 /NDF: 6228722.9/103

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 24.928 $\pm$ 50.437 χ^2 /NDF: 2.6/8

Left Out: 57.211 $\pm$ 23.714 χ^2 /NDF:29.2/24

Right Out: -53.022 $\pm$ 50.105 χ^2 /NDF: 8.5/10

Left In: 32.948 $\pm$ 24.587 χ^2 /NDF:23.6/22

Left: 45.518 $\pm$ 17.069 χ^2 /NDF: 53.3/47

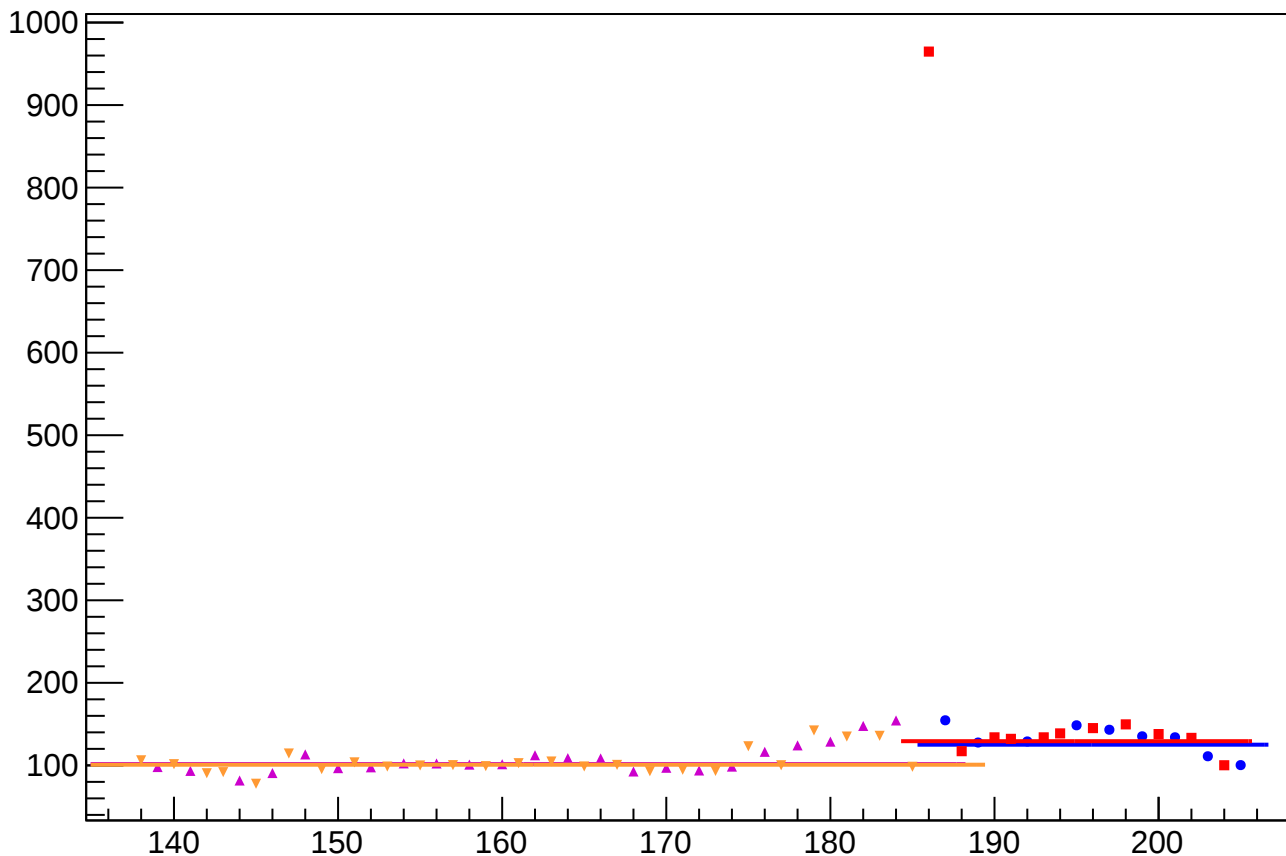
Right: -14.304 $\pm$ 35.546 χ^2 /NDF: 12.3/19

In: 31.408 $\pm$ 22.101 χ^2 /NDF:26.2/31

Out: 37.038 $\pm$ 21.434 χ^2 /NDF:41.7/35

All: 34.309 $\pm$ 15.387 χ^2 /NDF: 67.9/67

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 125.055 $\pm$ 0.036 χ^2 /NDF: 216262.3/8

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 129.302 $\pm$ 0.035 χ^2 /NDF: 765699.0/10

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

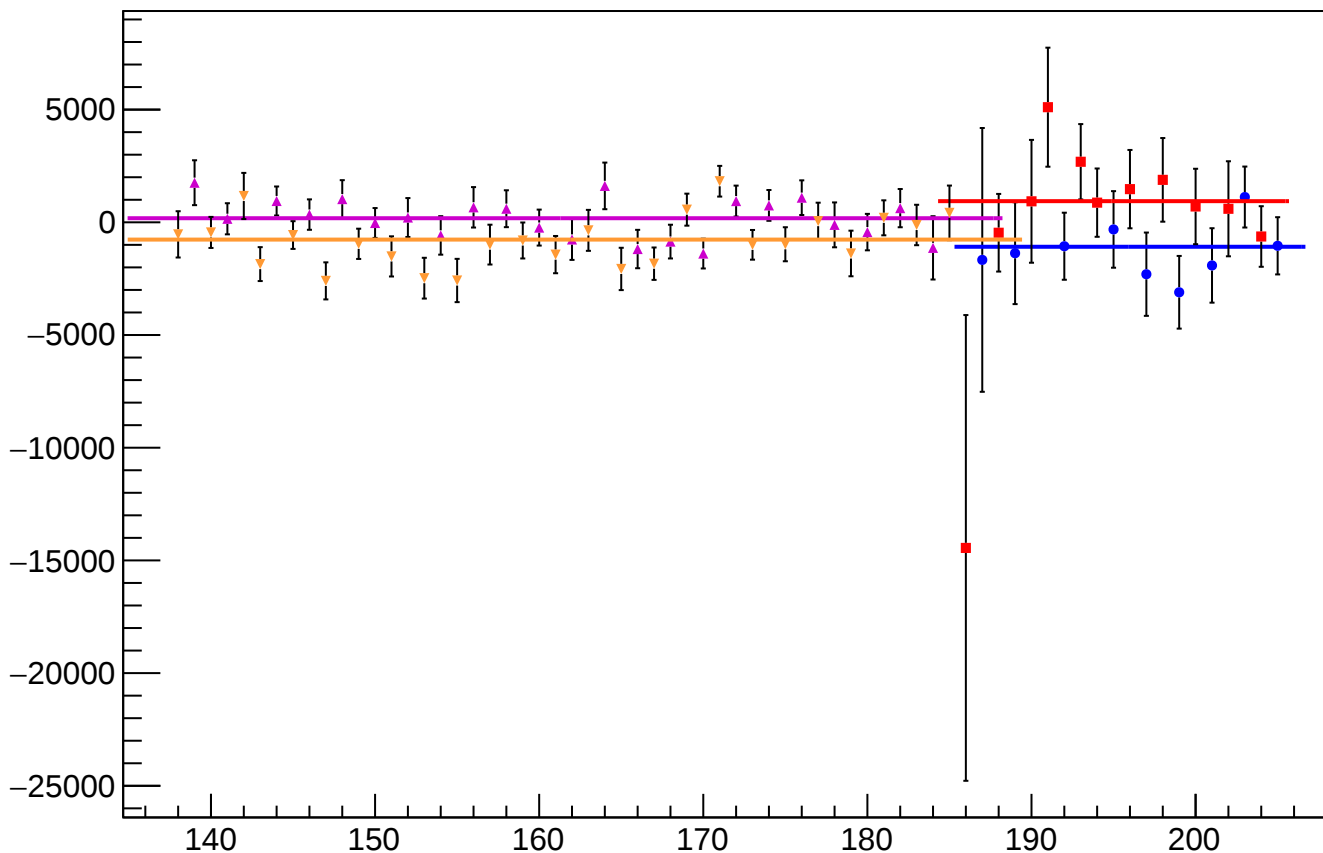
Right: 127.192 $\pm$ 0.025 χ^2 /NDF: 989097.3/19

In: 106.121 $\pm$ 0.016 χ^2 /NDF: 1147411.8/31

Out: 106.016 $\pm$ 0.015 χ^2 /NDF: 1894902.8/35

All: 106.067 $\pm$ 0.011 χ^2 /NDF: 3042337.8/67

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1084.762 ± 555.956 $\chi^2/\text{NDF}: 5.1/8$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 938.544 ± 561.206 $\chi^2/\text{NDF}: 8.2/10$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

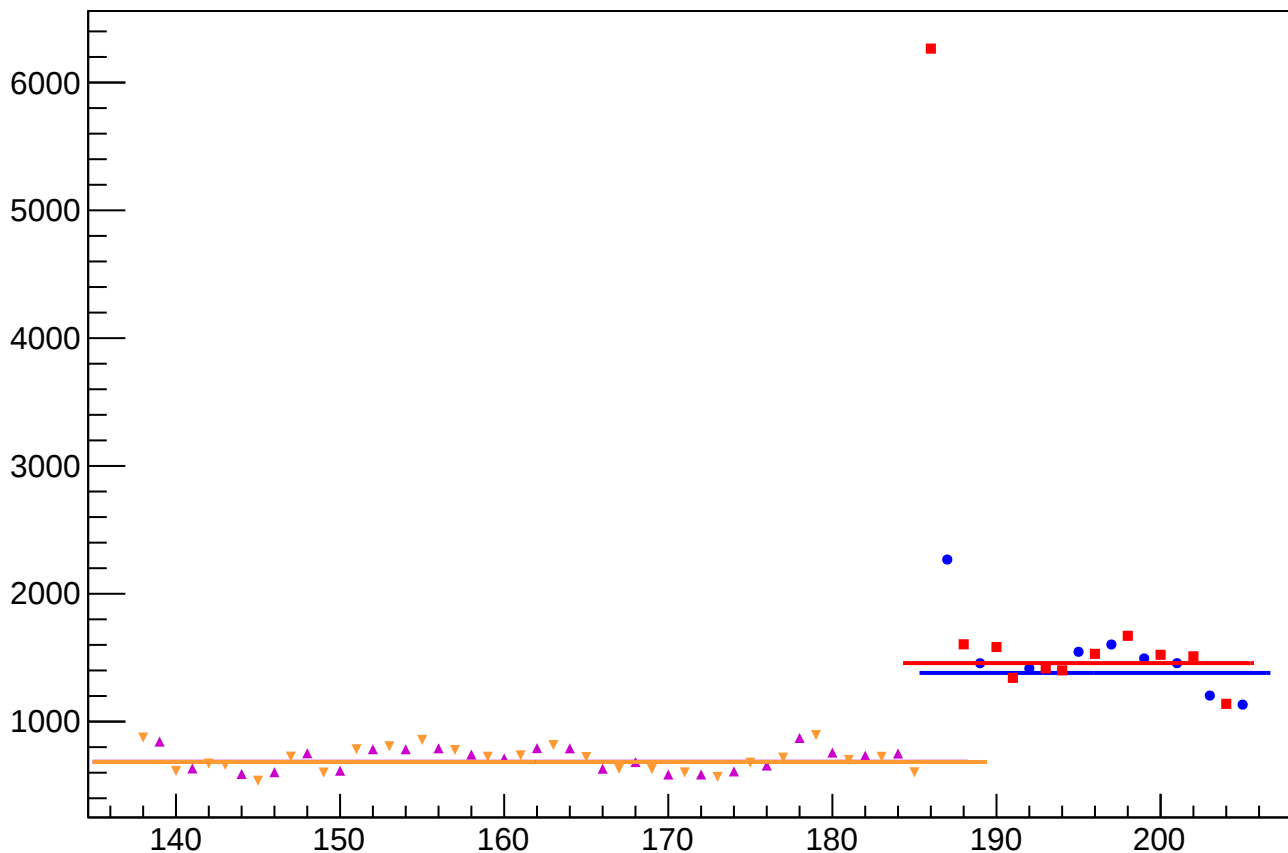
Right: -82.618 ± 394.963 $\chi^2/\text{NDF}: 19.9/19$

In: 78.304 ± 158.771 $\chi^2/\text{NDF}: 34.9/31$

Out: -636.613 ± 154.816 $\chi^2/\text{NDF}: 63.3/35$

All: -288.170 ± 110.844 $\chi^2/\text{NDF}: 108.6/67$

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1380.641 $\pm$ 0.393 χ^2 /NDF: 222054.5/8

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1457.559 $\pm$ 0.397 χ^2 /NDF: 606580.3/10

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

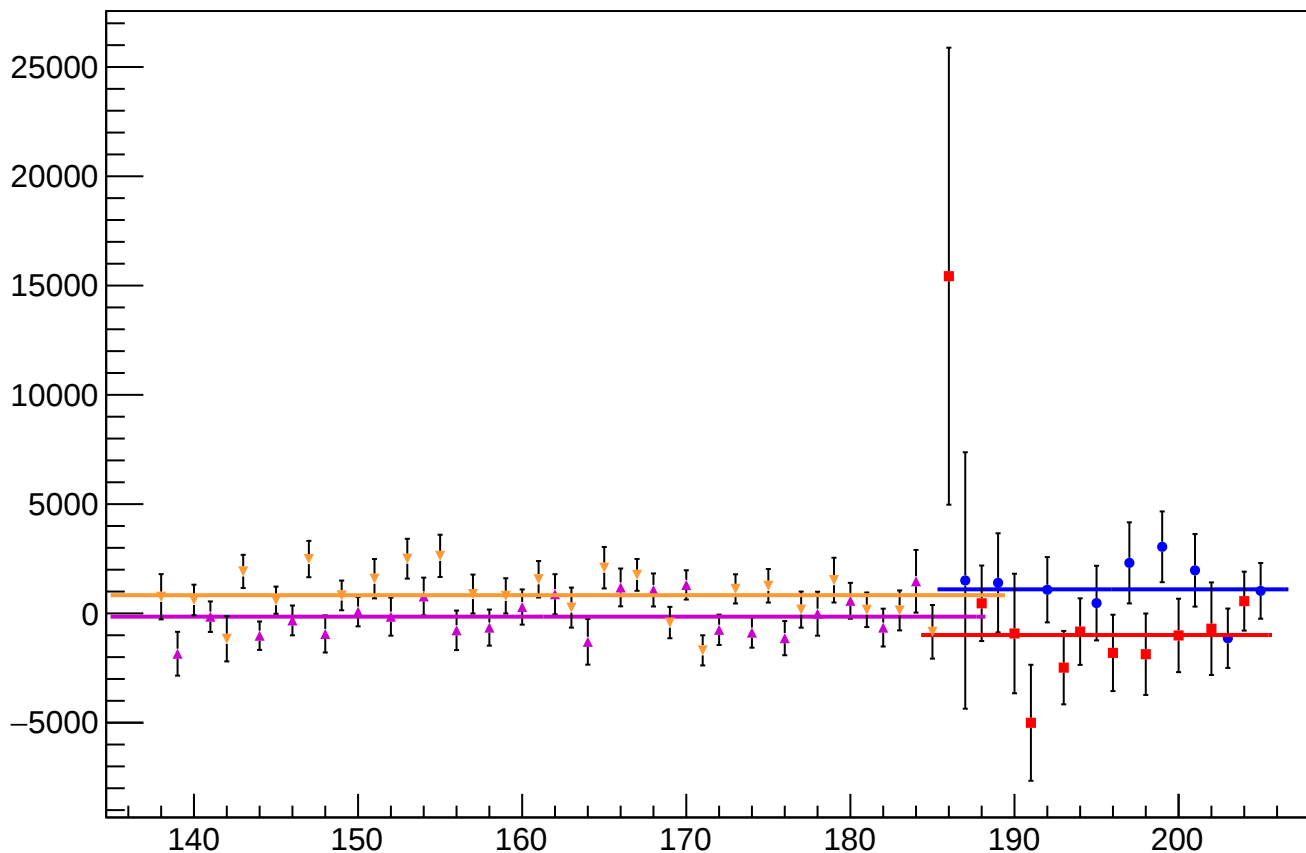
Right: 1418.738 $\pm$ 0.279 χ^2 /NDF: 847596.3/19

In: 742.279 $\pm$ 0.112 χ^2 /NDF: 3622396.3/31

Out: 742.762 $\pm$ 0.109 χ^2 /NDF: 4785510.1/35

All: 742.526 $\pm$ 0.078 χ^2 /NDF: 8407915.8/67

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1100.746 $\pm$ 558.356 χ^2 /NDF: 5.0/8

Left Out: 833.395 $\pm$ 162.965 χ^2 /NDF:43.2/24

Right Out: -988.210 $\pm$ 563.634 χ^2 /NDF: 8.0/10

Left In: -148.814 $\pm$ 167.644 χ^2 /NDF:26.0/22

Left: 356.189 $\pm$ 116.853 χ^2 /NDF: 86.9/47

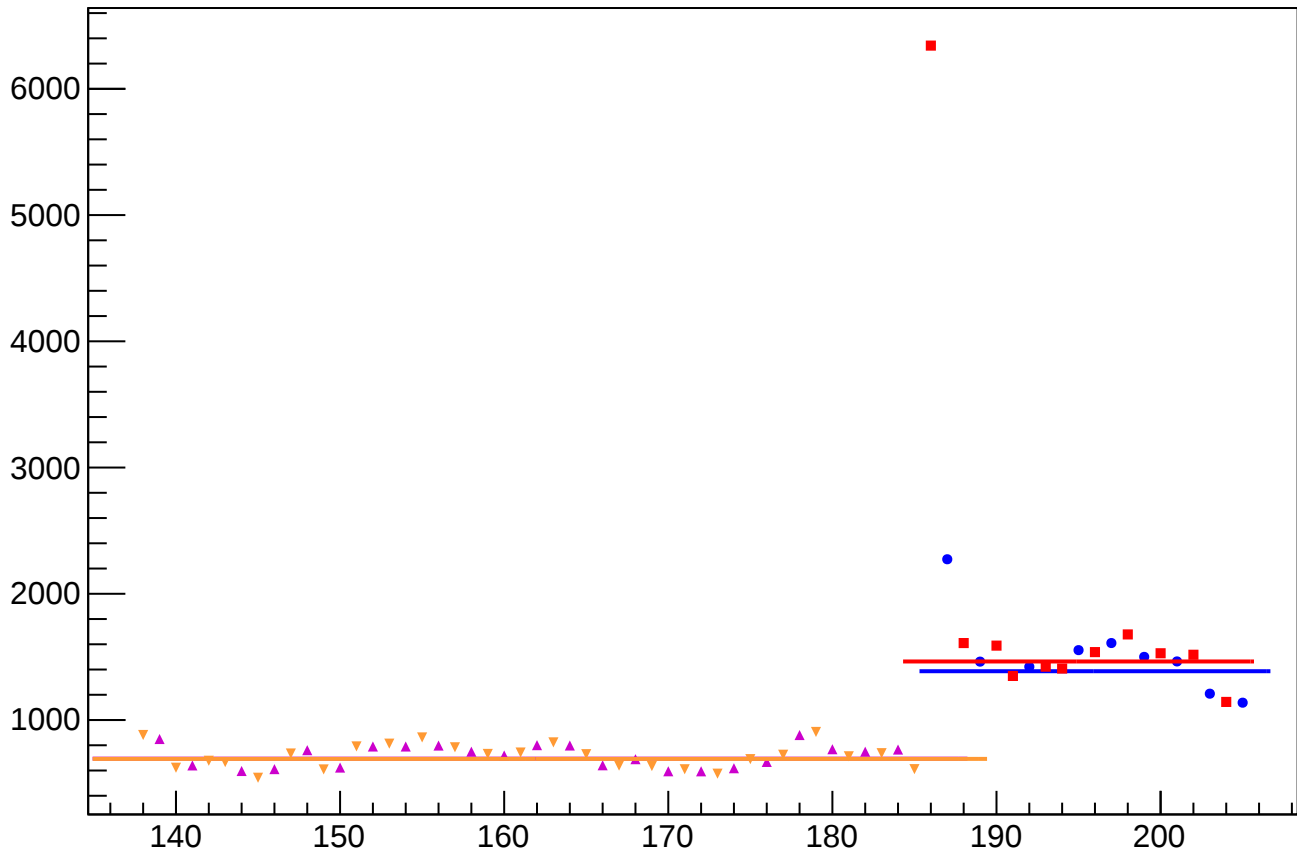
Right: 66.095 $\pm$ 396.671 χ^2 /NDF: 20.0/19

In: -45.484 $\pm$ 160.563 χ^2 /NDF:35.6/31

Out: 692.861 $\pm$ 156.553 χ^2 /NDF:60.9/35

All: 333.025 $\pm$ 112.090 χ^2 /NDF: 107.4/67

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1386.618 $\pm$ 0.395 χ^2 /NDF: 222195.4/8

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1463.807 $\pm$ 0.399 χ^2 /NDF: 608736.3/10

Left In: 693.867 $\pm$ 0.119 χ^2 /NDF: 522053.5/22

Left: 692.957 $\pm$ 0.083 χ^2 /NDF: 1179427.7/47

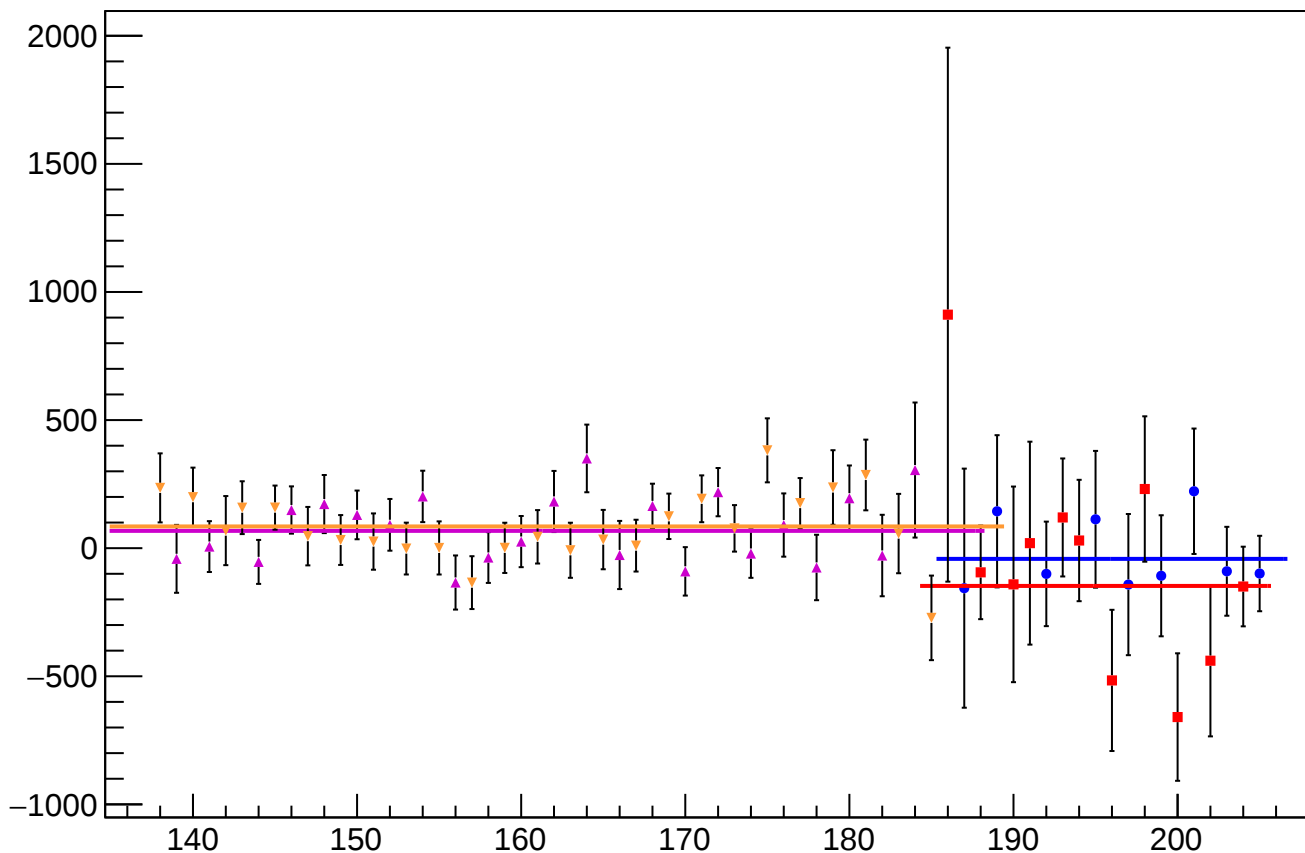
Right: 1424.849 $\pm$ 0.280 χ^2 /NDF: 849863.6/19

In: 751.153 $\pm$ 0.114 χ^2 /NDF: 3568319.0/31

Out: 751.633 $\pm$ 0.111 χ^2 /NDF: 4725995.2/35

All: 751.399 $\pm$ 0.079 χ^2 /NDF: 8294323.3/67

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -41.773 ± 74.306 $\chi^2/\text{NDF}: 2.5/8$

Left Out: 84.860 ± 21.643 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -147.359 ± 75.515 $\chi^2/\text{NDF}: 12.0/10$

Left In: 67.552 ± 22.449 $\chi^2/\text{NDF}: 28.9/22$

Left: 76.522 ± 15.581 $\chi^2/\text{NDF}: 57.7/47$

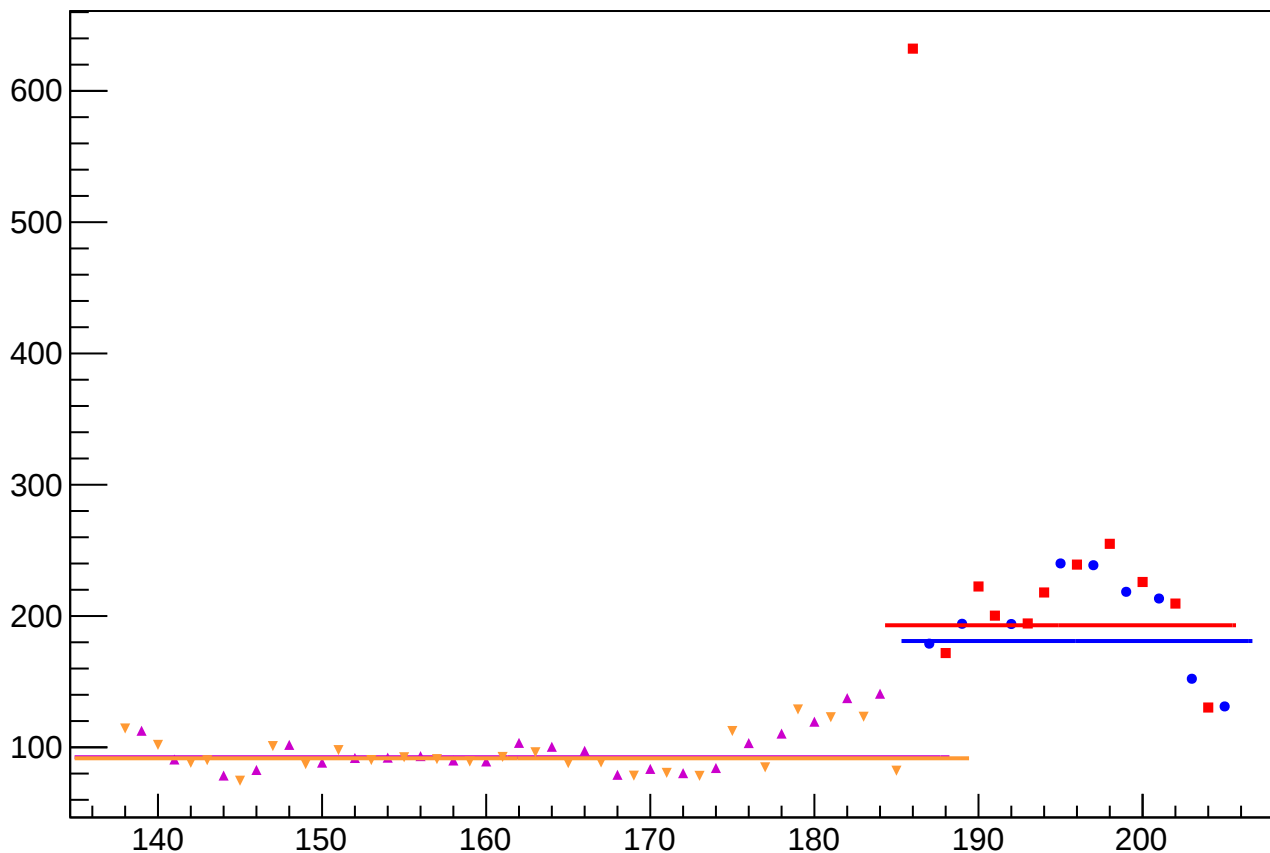
Right: -93.713 ± 52.965 $\chi^2/\text{NDF}: 15.4/19$

In: 58.408 ± 21.490 $\chi^2/\text{NDF}: 33.3/31$

Out: 67.233 ± 20.805 $\chi^2/\text{NDF}: 49.2/35$

All: 62.963 ± 14.948 $\chi^2/\text{NDF}: 82.6/67$

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 180.963 $\pm$ 0.053 χ^2 /NDF: 567133.6/8

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 192.961 $\pm$ 0.053 χ^2 /NDF: 935208.9/10

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

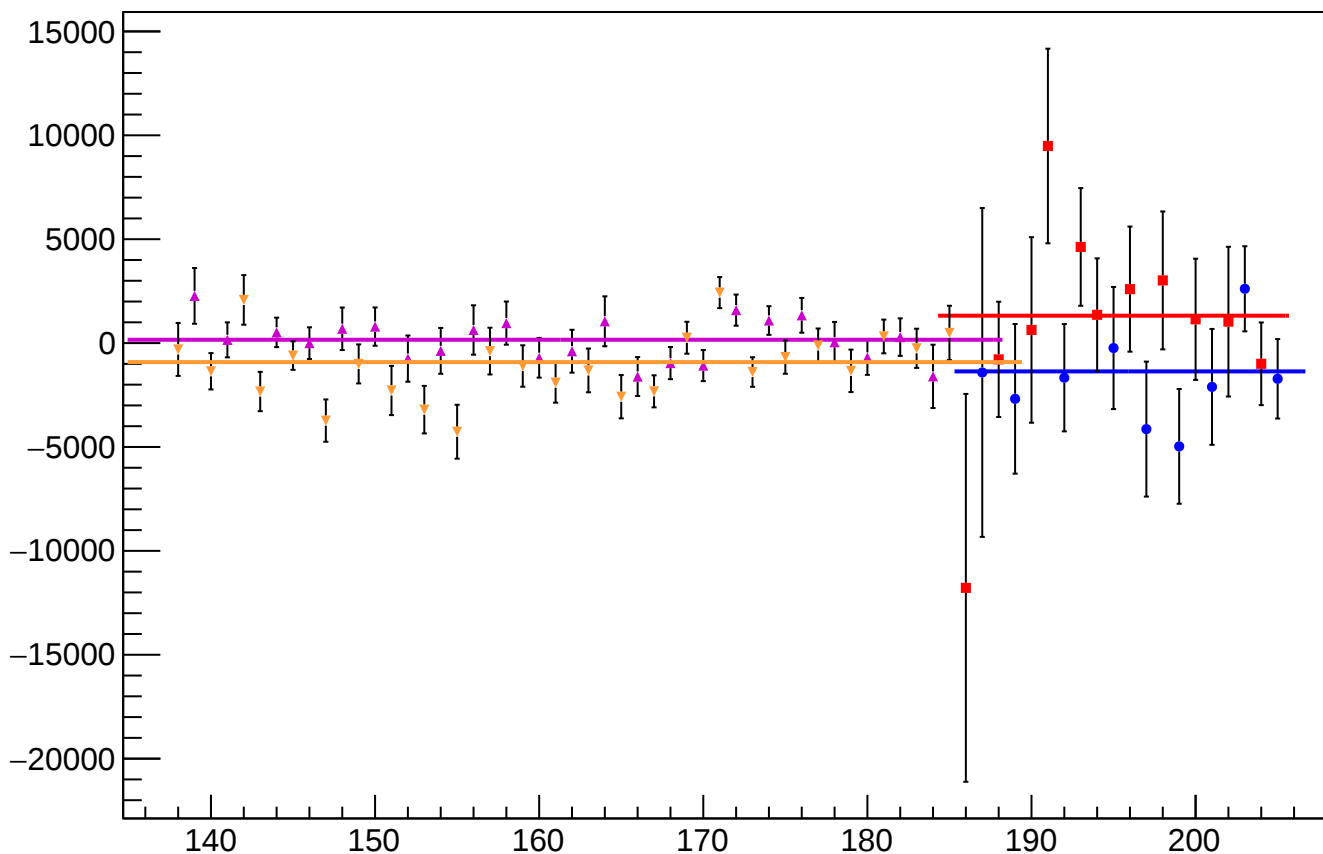
Right: 186.865 $\pm$ 0.037 χ^2 /NDF: 1527995.1/19

In: 99.868 $\pm$ 0.015 χ^2 /NDF: 3822461.6/31

Out: 99.324 $\pm$ 0.015 χ^2 /NDF: 4955998.3/35

All: 99.587 $\pm$ 0.011 χ^2 /NDF: 8779121.1/67

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1361.988 ± 903.440 χ^2/NDF : 6.6/8

Left Out: -914.719 ± 185.341 χ^2/NDF : 64.2/24

Right Out: 1319.134 ± 934.214 χ^2/NDF : 8.8/10

Left In: 161.076 ± 189.491 χ^2/NDF : 25.1/22

Left: -388.730 ± 132.499 χ^2/NDF : 105.7/47

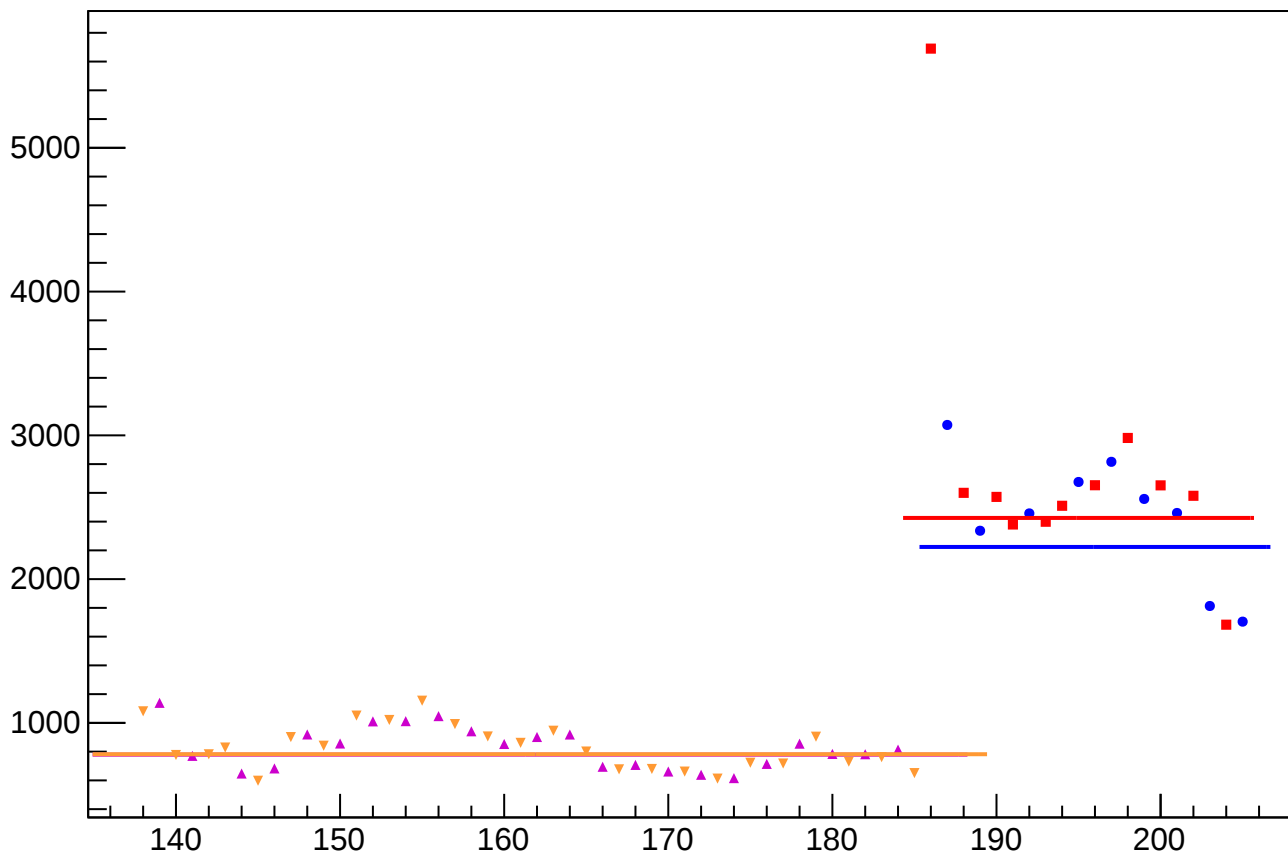
Right: -66.314 ± 649.436 χ^2/NDF : 19.6/19

In: 96.897 ± 185.455 χ^2/NDF : 34.4/31

Out: -830.125 ± 181.798 χ^2/NDF : 78.5/35

All: -375.846 ± 129.824 χ^2/NDF : 125.6/67

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2223.819 $\pm$ 0.639 χ^2/NDF : 426675.2/8

Left Out: 782.042 $\pm$ 0.131 χ^2/NDF : 1130984.3/24

Right Out: 2425.642 $\pm$ 0.661 χ^2/NDF : 618983.3/10

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

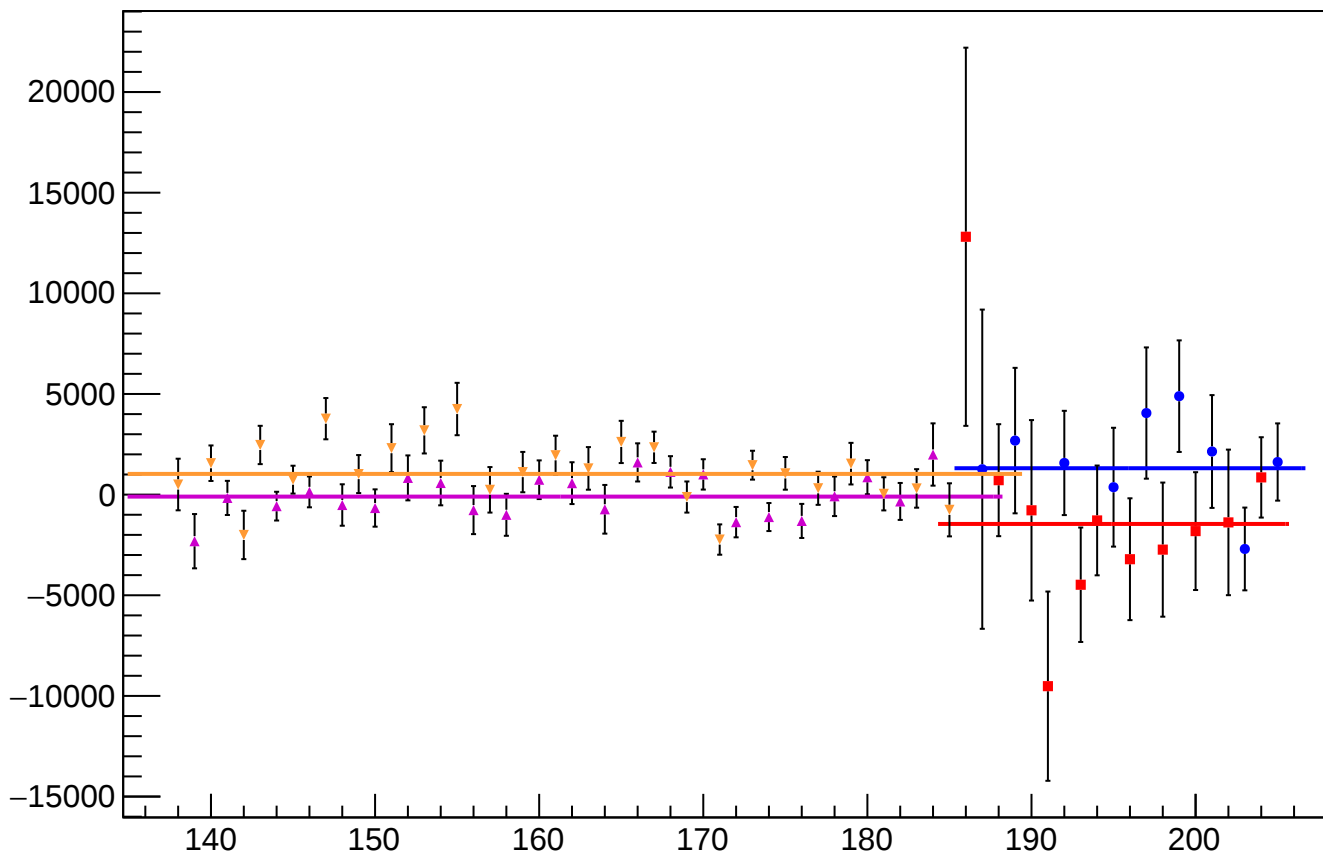
Right: 2321.352 $\pm$ 0.459 χ^2/NDF : 1093892.3/19

In: 839.877 $\pm$ 0.131 χ^2/NDF : 6306561.7/31

Out: 844.283 $\pm$ 0.129 χ^2/NDF : 7706087.4/35

All: 842.124 $\pm$ 0.092 χ^2/NDF : 14013224.6/67

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1311.222 $\pm$ 906.746 χ^2 /NDF: 6.6/8

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -1456.730 $\pm$ 937.589 χ^2 /NDF: 8.9/10

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

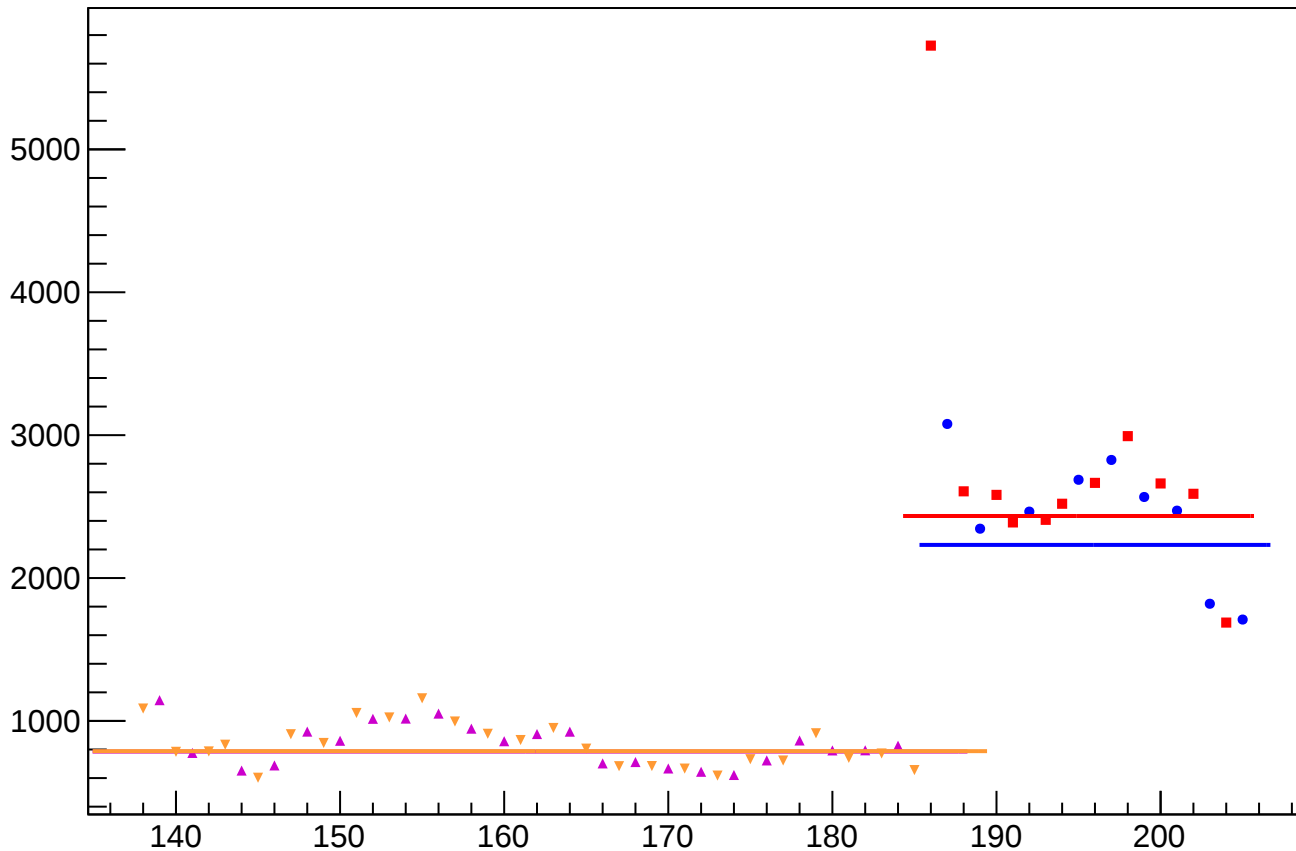
Right: -26.479 $\pm$ 651.797 χ^2 /NDF: 19.9/19

In: -38.774 $\pm$ 186.924 χ^2 /NDF:34.2/31

Out: 933.957 $\pm$ 183.209 χ^2 /NDF:75.8/35

All: 457.353 $\pm$ 130.842 χ^2 /NDF: 123.8/67

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2231.880 +/- 0.641 χ^2/NDF : 427648.1/8

Left Out: 788.442 +/- 0.132 χ^2/NDF : 1113741.6/24

Right Out: 2434.235 +/- 0.663 χ^2/NDF : 621073.5/10

Left In: 785.490 +/- 0.135 χ^2/NDF : 965338.9/22

Left: 786.999 +/- 0.094 χ^2/NDF : 2079324.6/47

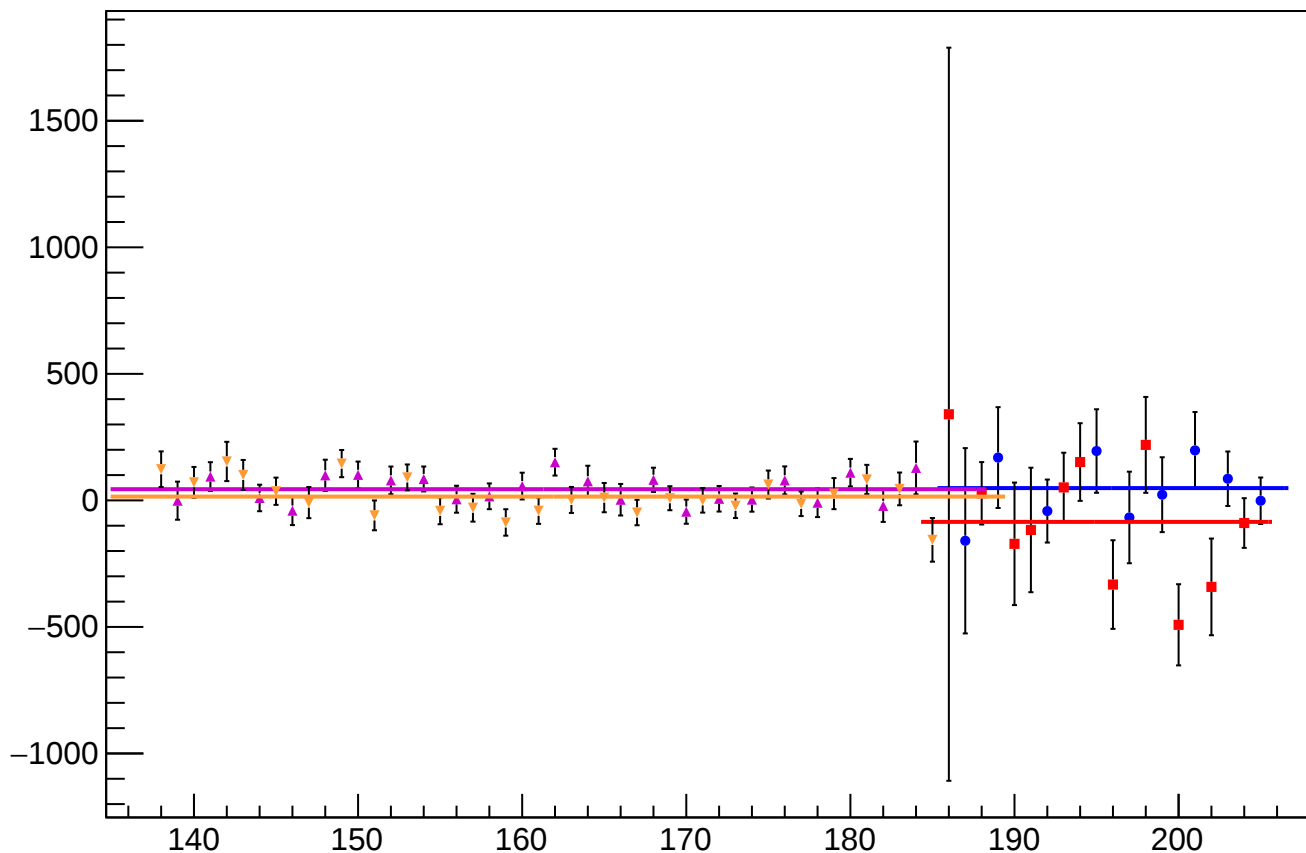
Right: 2329.674 +/- 0.461 χ^2/NDF : 1096859.5/19

In: 846.958 +/- 0.132 χ^2/NDF : 6265679.6/31

Out: 851.283 +/- 0.130 χ^2/NDF : 7661992.1/35

All: 849.164 +/- 0.093 χ^2/NDF : 13928218.0/67

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 48.623 $\pm$ 46.694 χ^2 /NDF: 3.8/8

Left Out: 15.099 $\pm$ 11.154 χ^2 /NDF:34.2/24

Right Out: -84.899 $\pm$ 48.443 χ^2 /NDF: 17.3/10

Left In: 44.297 $\pm$ 11.530 χ^2 /NDF:22.3/22

Left: 29.215 $\pm$ 8.017 χ^2 /NDF: 59.8/47

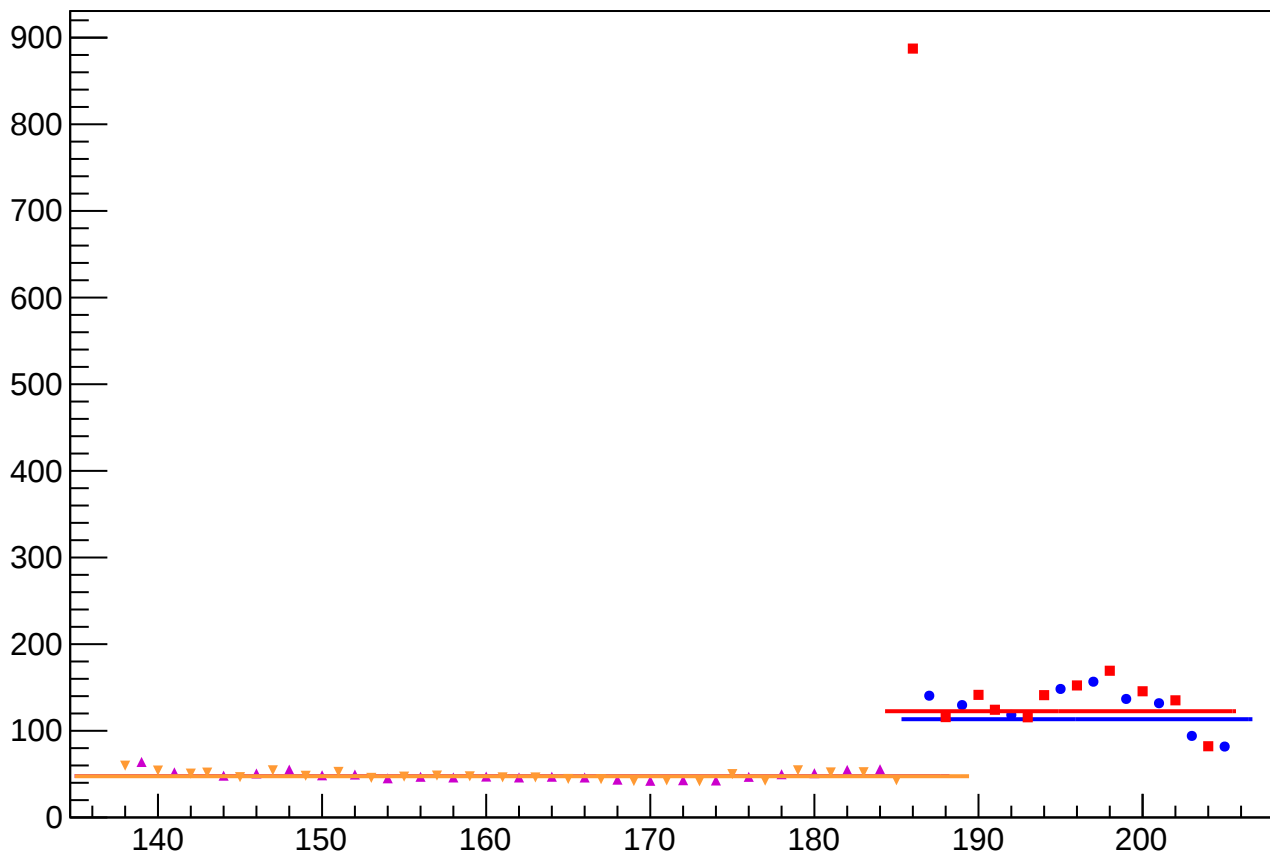
Right: -15.683 $\pm$ 33.619 χ^2 /NDF: 25.0/19

In: 44.546 $\pm$ 11.193 χ^2 /NDF:26.1/31

Out: 10.064 $\pm$ 10.870 χ^2 /NDF:55.5/35

All: 26.799 $\pm$ 7.798 χ^2 /NDF: 86.5/67

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 113.384+/-0.033 χ^2/NDF : 612024.8/8

Left Out: 47.586+/-0.008 χ^2/NDF : 312874.8/24

Right Out: 122.606+/-0.034 χ^2/NDF : 1178740.4/10

Left In: 47.846+/-0.008 χ^2/NDF : 281790.1/22

Left: 47.712+/-0.006 χ^2/NDF : 595189.7/47

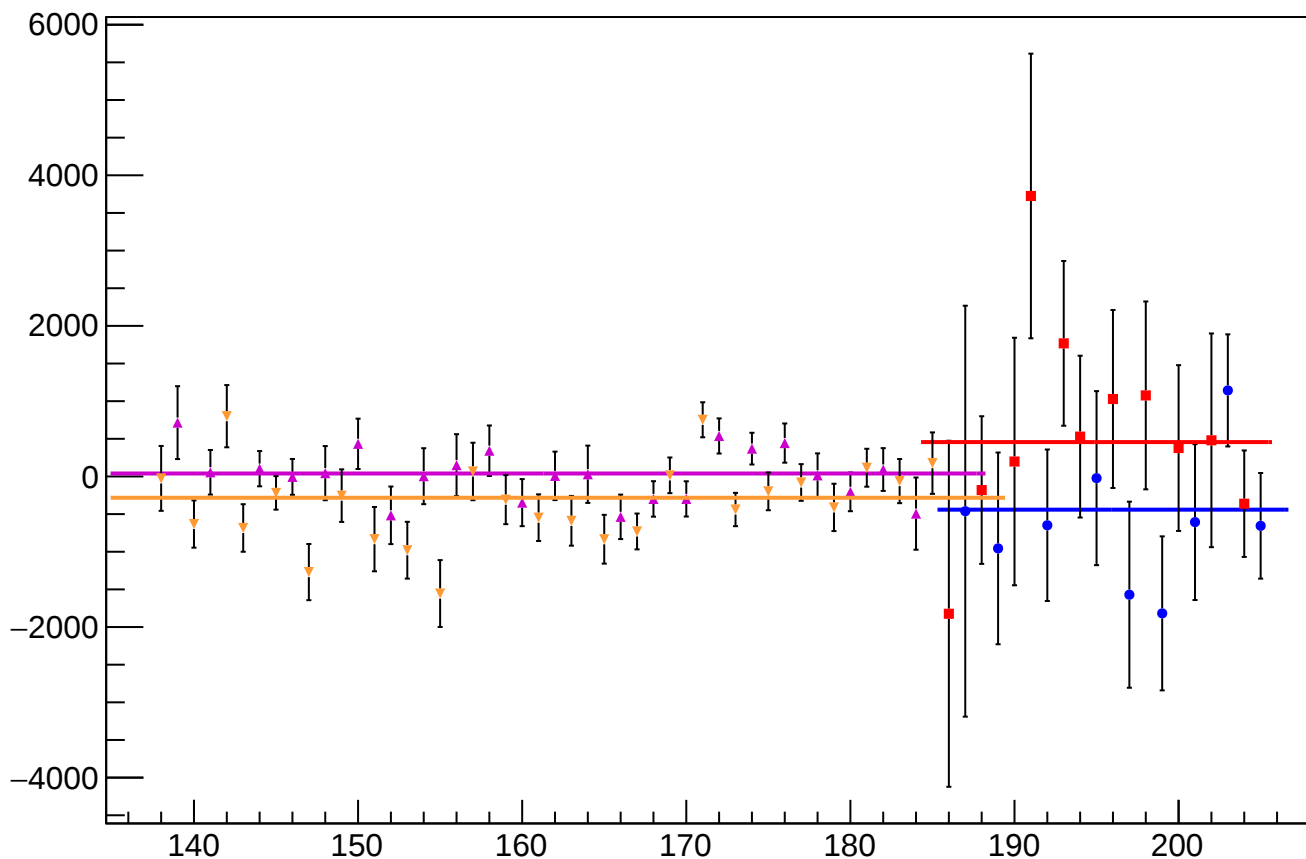
Right: 117.826+/-0.024 χ^2/NDF : 1828332.4/19

In: 51.612+/-0.008 χ^2/NDF : 4607479.1/31

Out: 51.363+/-0.008 χ^2/NDF : 6046483.4/35

All: 51.484+/-0.006 χ^2/NDF : 10654472.2/67

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -441.008+/-335.823 χ^2/NDF : 7.6/8

Left Out: -282.798+/-59.690 χ^2/NDF :66.5/24

Right Out: 456.529+/-347.930 χ^2/NDF : 7.7/10

Left In: 39.432+/-60.759 χ^2/NDF :27.5/22

Left: -124.543+/-42.580 χ^2/NDF : 108.4/47

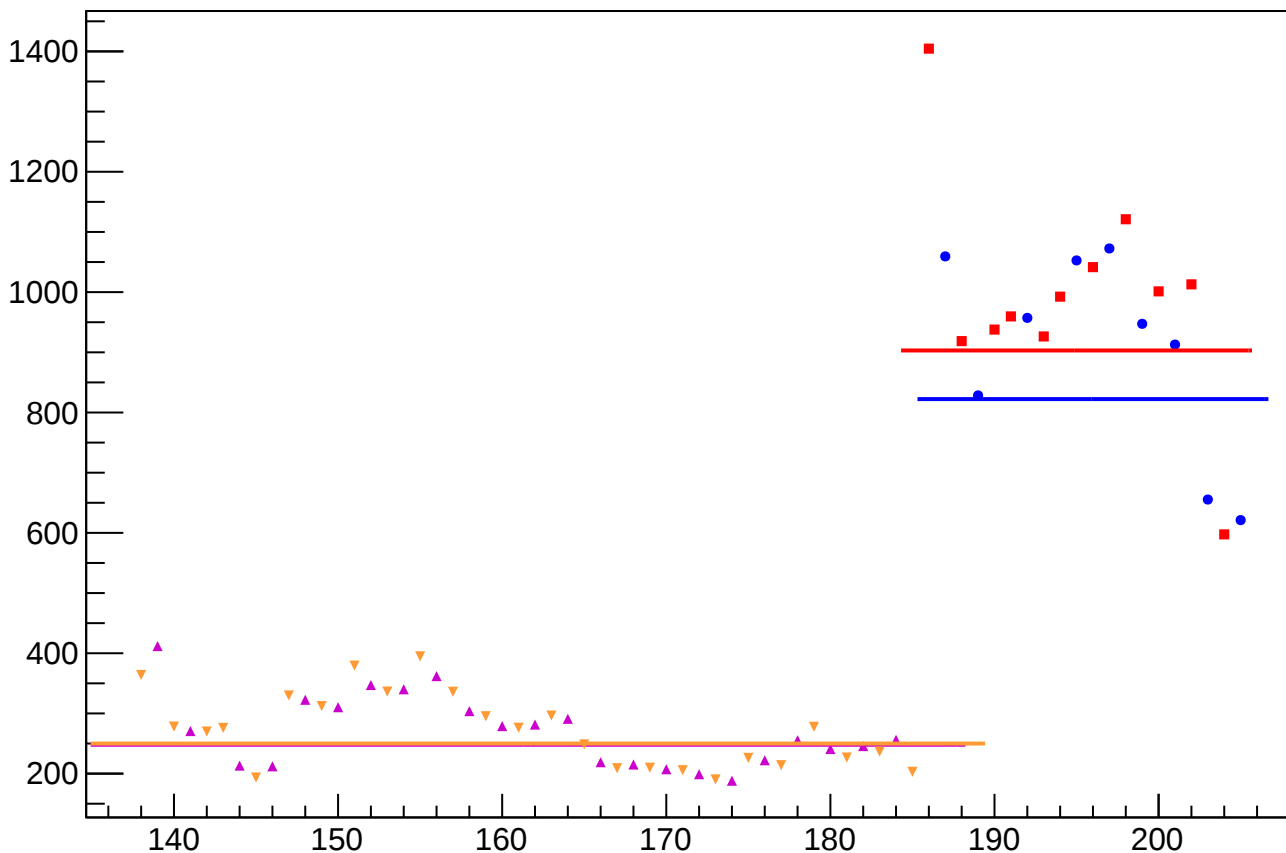
Right: -8.127+/-241.629 χ^2/NDF : 18.8/19

In: 24.204+/-59.788 χ^2/NDF :37.2/31

Out: -261.661+/-58.830 χ^2/NDF :78.6/35

All: -121.037+/-41.934 χ^2/NDF : 127.4/67

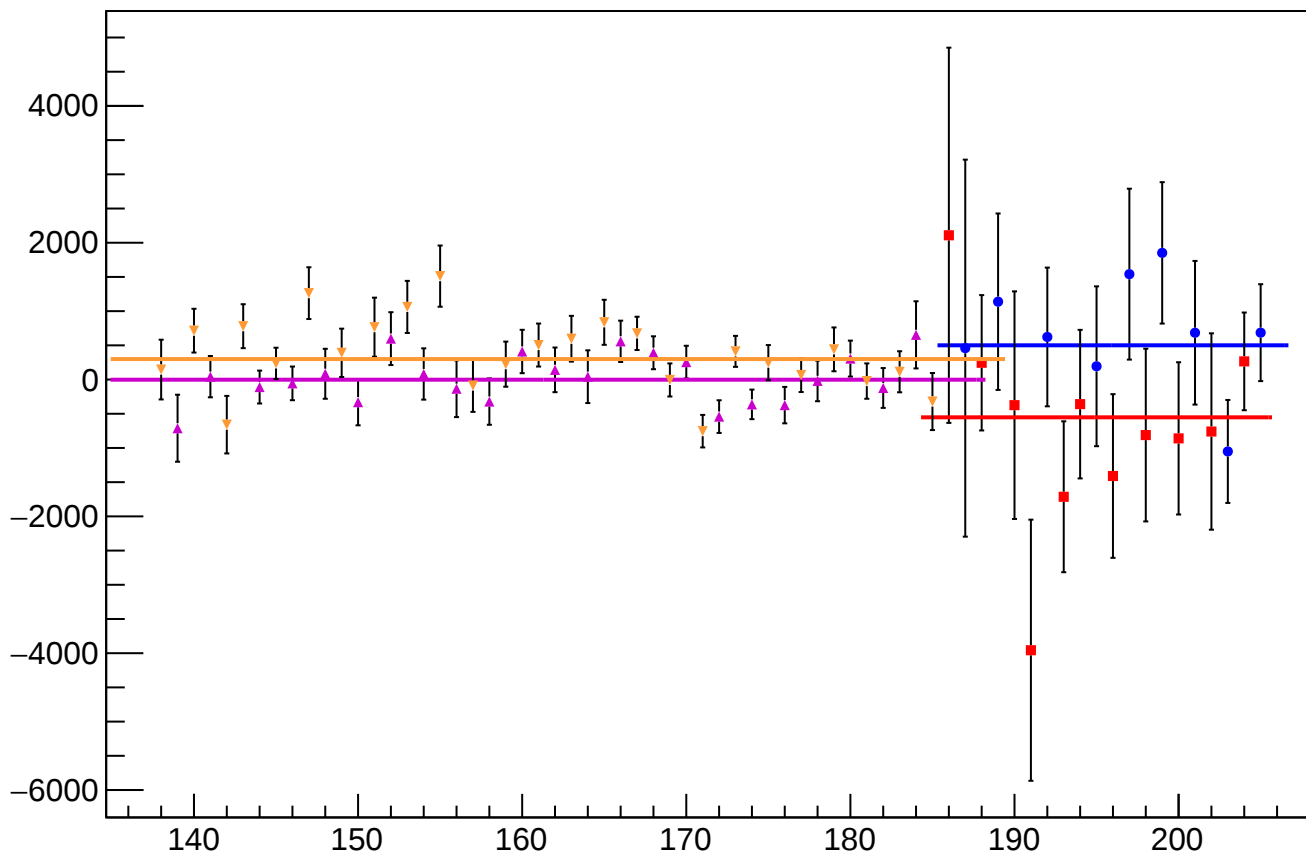
asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 822.298 $\pm$ 0.237 χ^2 /NDF: 522525.4/8
 Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF: 1614205.9/24
 Right Out: 903.081 $\pm$ 0.246 χ^2 /NDF: 603154.8/10
 Left In: 247.917 $\pm$ 0.043 χ^2 /NDF: 1410847.5/22

Left: 248.955 $\pm$ 0.030 χ^2 /NDF: 3026200.1/47
 Right: 861.259 $\pm$ 0.171 χ^2 /NDF: 1181497.8/19
 In: 266.123 $\pm$ 0.042 χ^2 /NDF: 7598644.7/31
 Out: 268.630 $\pm$ 0.042 χ^2 /NDF: 9063434.0/35
 All: 267.396 $\pm$ 0.030 χ^2 /NDF: 16663865.1/67

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 500.575 $\pm$ 339.386 χ^2 /NDF: 7.1/8

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: -552.111 $\pm$ 352.648 χ^2 /NDF: 7.9/10

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

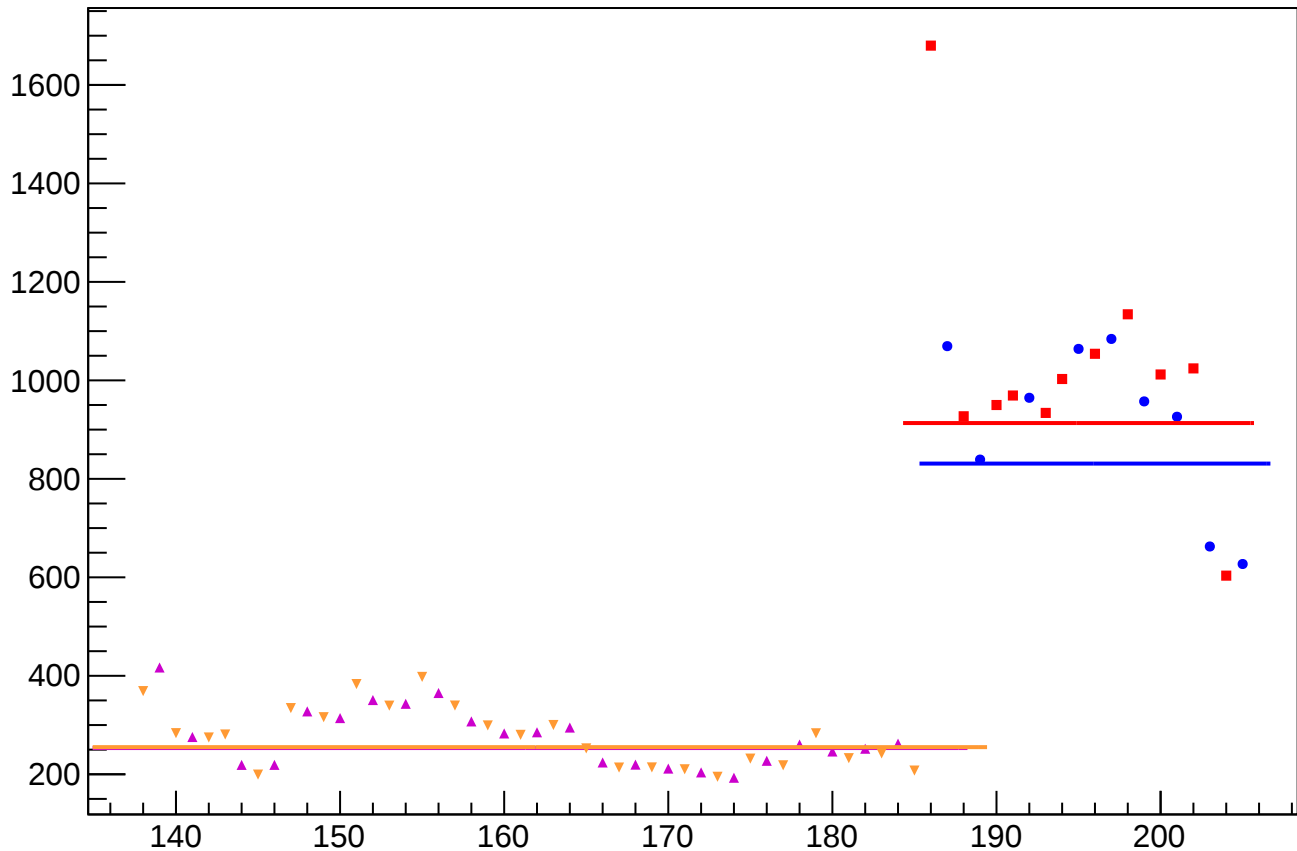
Right: -5.603 $\pm$ 244.536 χ^2 /NDF: 19.6/19

In: 14.054 $\pm$ 60.995 χ^2 /NDF:38.4/31

Out: 274.930 $\pm$ 59.973 χ^2 /NDF:76.0/35

All: 146.696 $\pm$ 42.764 χ^2 /NDF: 123.7/67

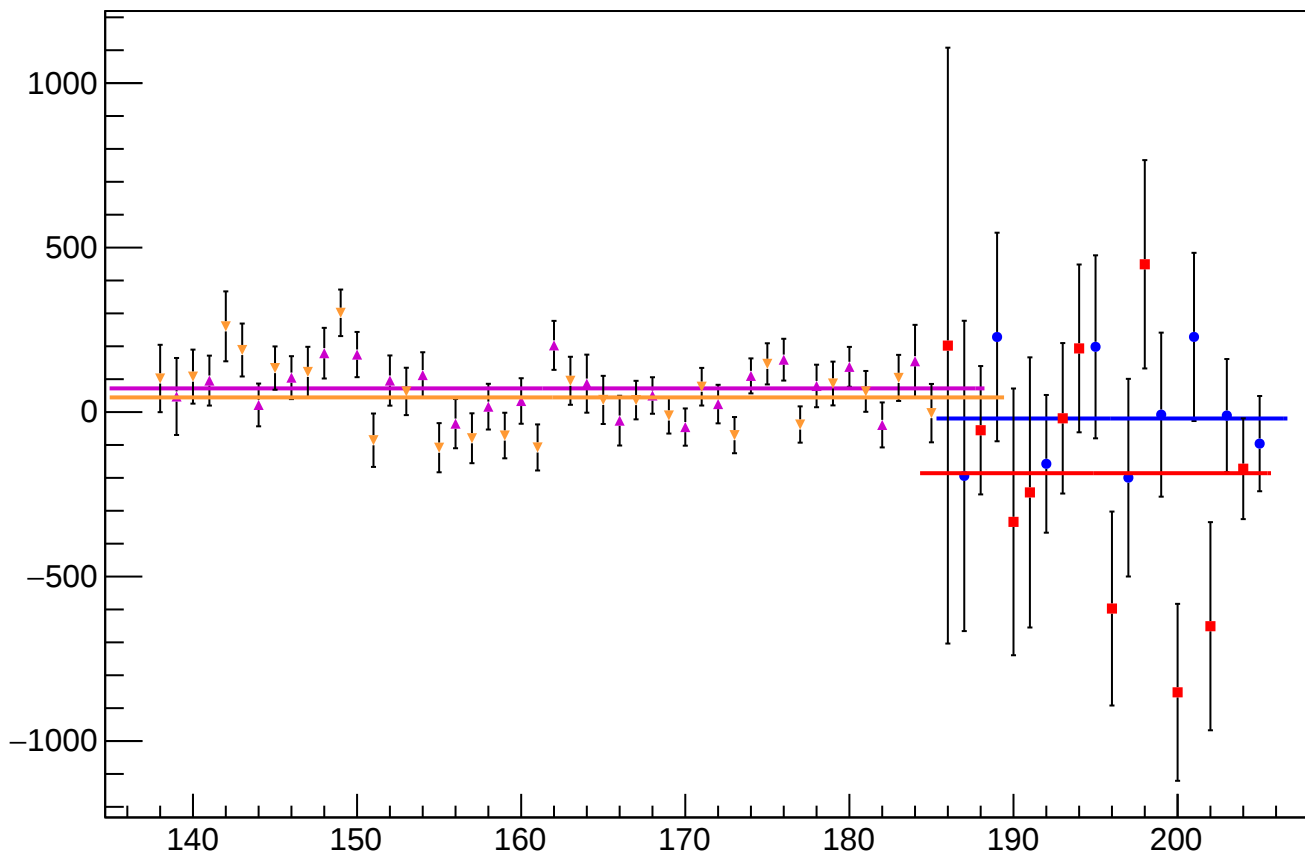
asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 831.000 $\pm$ 0.240 χ^2 /NDF: 523690.6/8
 Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF:1542039.5/24
 Right Out: 913.328 $\pm$ 0.249 χ^2 /NDF: 666865.5/10
 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: 870.587 $\pm$ 0.173 χ^2 /NDF: 1247145.8/19
 In: 271.947 $\pm$ 0.043 χ^2 /NDF:7473321.5/31
 Out: 274.172 $\pm$ 0.042 χ^2 /NDF:8974516.2/35
 All: 273.078 $\pm$ 0.030 χ^2 /NDF: 16449189.9/67

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -19.493 ± 75.749 $\chi^2/\text{NDF}: 3.4/8$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -185.764 ± 78.591 $\chi^2/\text{NDF}: 17.8/10$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

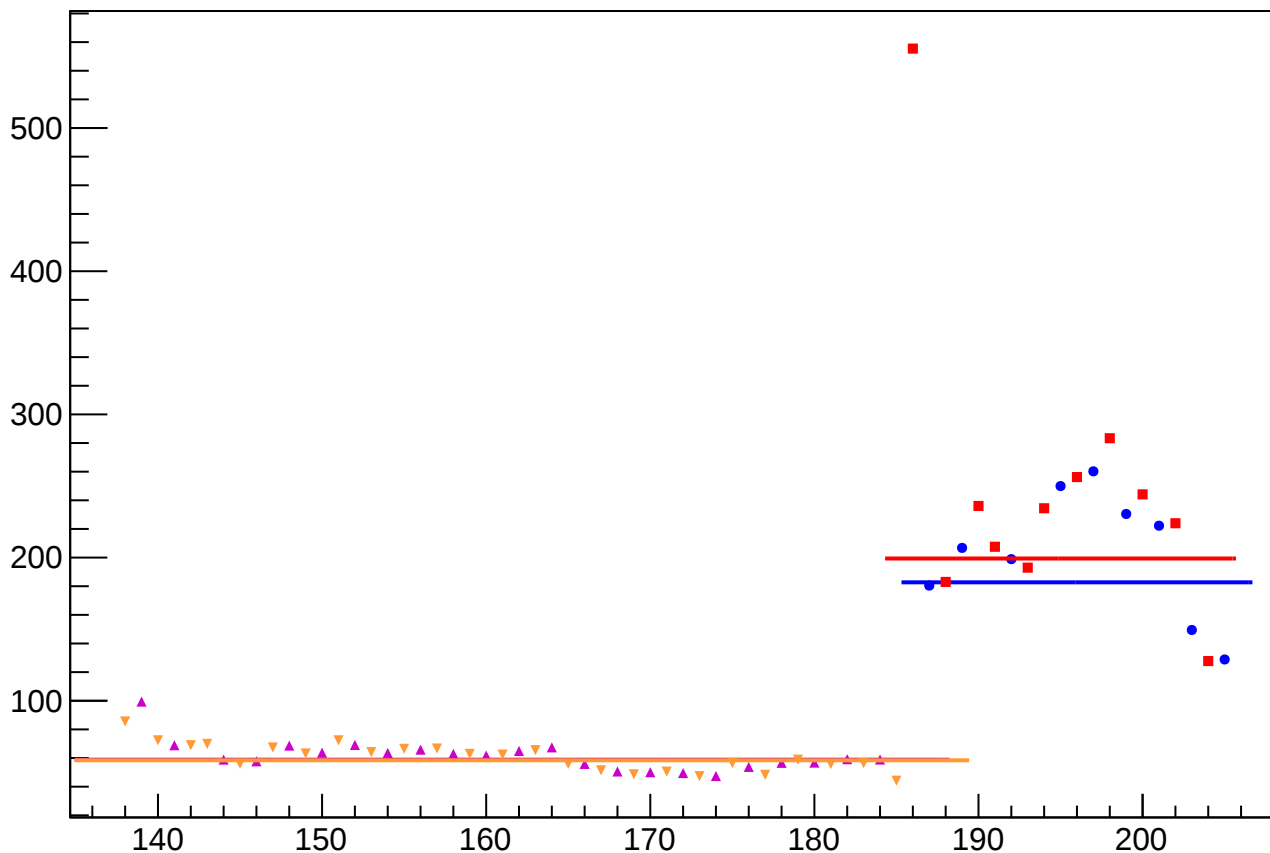
Right: -99.567 ± 54.540 $\chi^2/\text{NDF}: 23.5/19$

In: 68.889 ± 14.048 $\chi^2/\text{NDF}: 30.1/31$

Out: 37.688 ± 13.615 $\chi^2/\text{NDF}: 80.1/35$

All: 52.800 ± 9.777 $\chi^2/\text{NDF}: 112.7/67$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 182.723+/-0.054 χ^2/NDF : 746787.5/8

Left Out: 58.423+/-0.010 χ^2/NDF : 790091.3/24

Right Out: 199.359+/-0.056 χ^2/NDF : 1099580.9/10

Left In: 58.840+/-0.010 χ^2/NDF : 679925.7/22

Left: 58.624+/-0.007 χ^2/NDF : 1470896.0/47

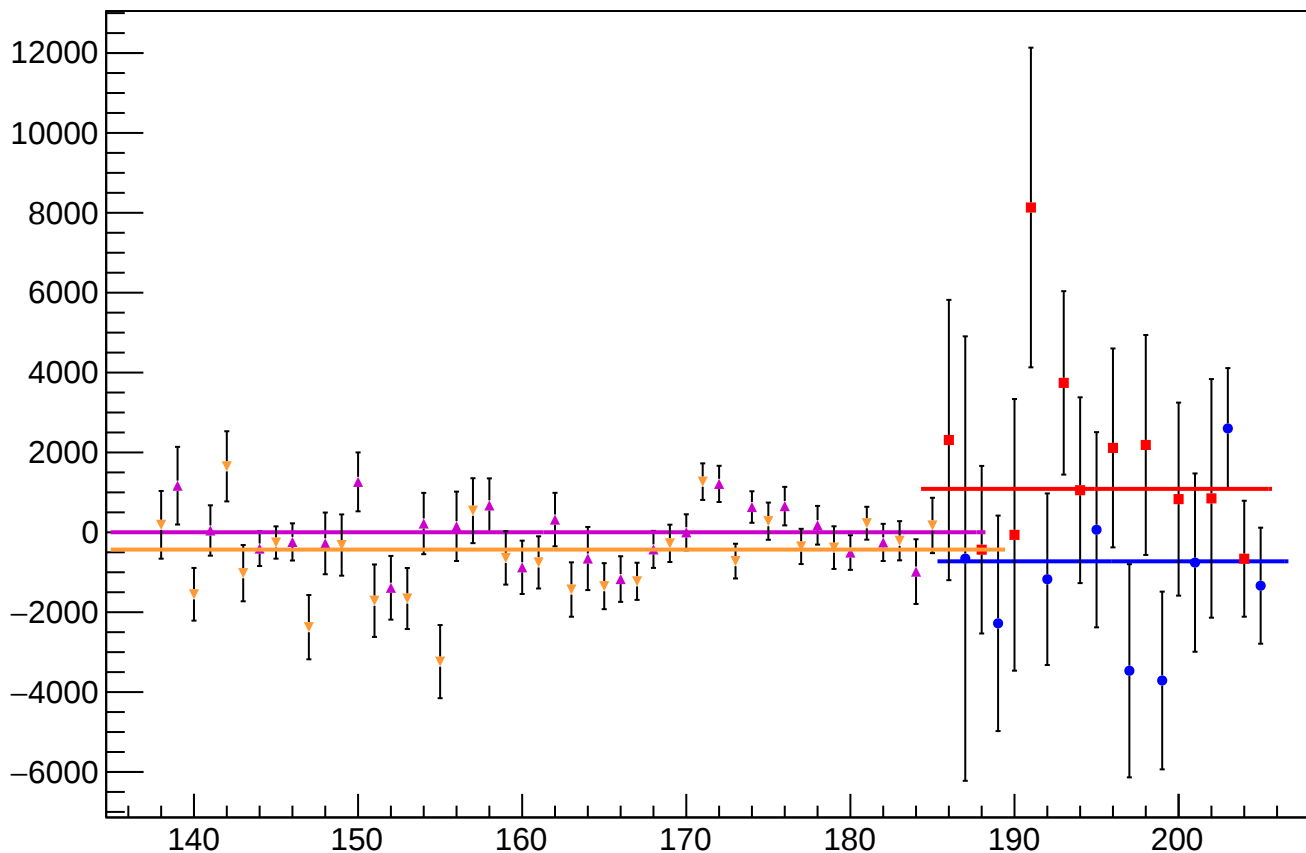
Right: 190.735+/-0.039 χ^2/NDF : 1892824.7/19

In: 63.101+/-0.010 χ^2/NDF : 6592117.8/31

Out: 62.653+/-0.010 χ^2/NDF : 8128382.9/35

All: 62.870+/-0.007 χ^2/NDF : 14721549.9/67

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -726.210+/-705.573 χ^2/NDF : 8.4/8

Left Out: -432.330+/-114.408 χ^2/NDF : 59.4/24

Right Out: 1088.142+/-728.769 χ^2/NDF : 7.0/10

Left In: 1.825+/-116.459 χ^2/NDF : 32.3/22

Left: -219.109+/-81.614 χ^2/NDF : 98.8/47

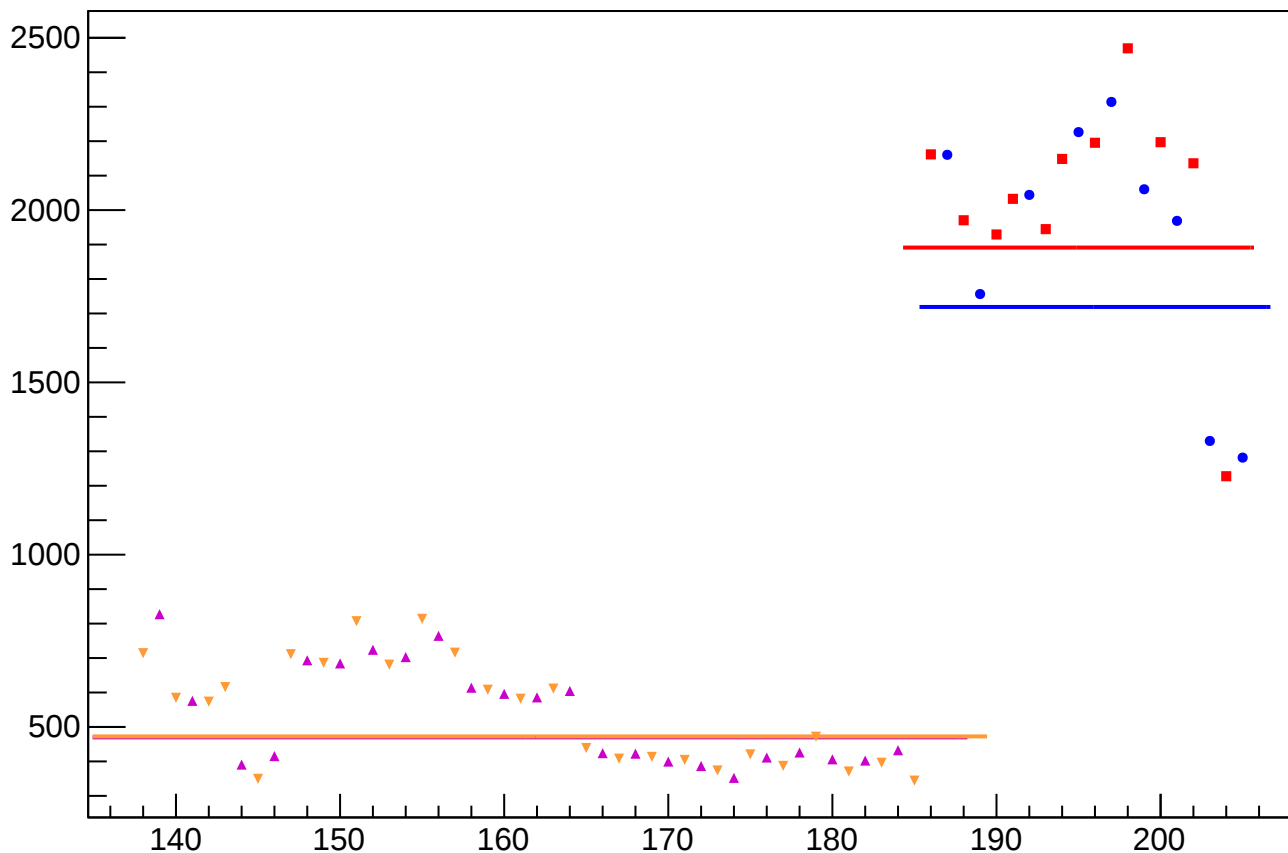
Right: 151.633+/-506.918 χ^2/NDF : 18.6/19

In: -17.483+/-114.904 χ^2/NDF : 41.7/31

Out: -395.759+/-113.024 χ^2/NDF : 70.6/35

All: -209.741+/-80.576 χ^2/NDF : 117.8/67

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1718.887+/-0.499 χ^2/NDF : 630241.4/8

Left Out: 472.569+/-0.081 χ^2/NDF :2508168.9/24

Right Out: 1891.262+/-0.515 χ^2/NDF : 624399.9/10

Left In: 469.761+/-0.082 χ^2/NDF :2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

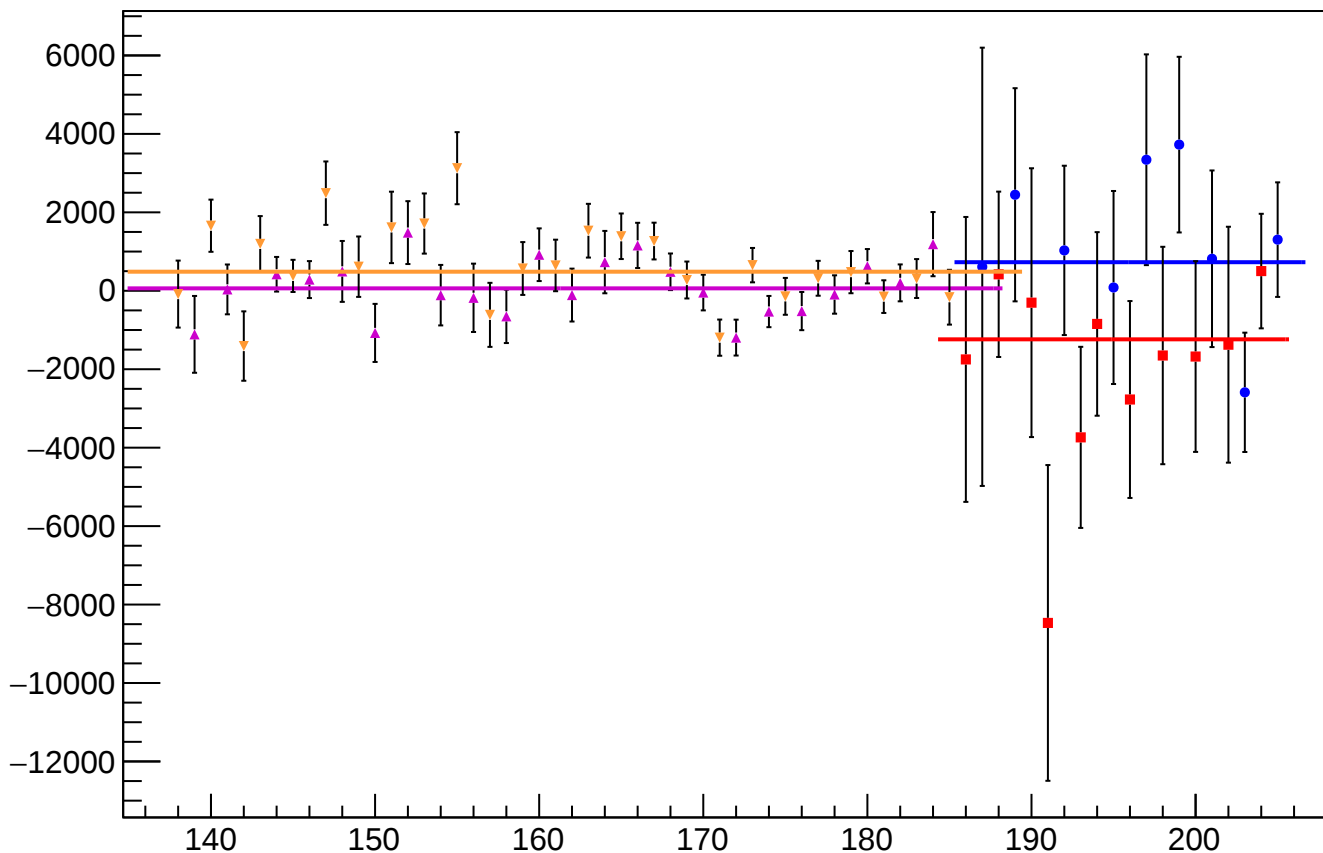
Right: 1802.287+/-0.358 χ^2/NDF : 1312396.3/19

In: 502.889+/-0.081 χ^2/NDF :8849298.0/31

Out: 506.692+/-0.080 χ^2/NDF :10529532.8/35

All: 504.822+/-0.057 χ^2/NDF : 19379944.2/67

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 728.735 $\pm$ 710.072 χ^2 /NDF: 8.1/8

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -1237.876 $\pm$ 734.126 χ^2 /NDF: 7.0/10

Left In: 61.775 $\pm$ 117.449 χ^2 /NDF:31.2/22

Left: 278.047 $\pm$ 82.295 χ^2 /NDF: 93.8/47

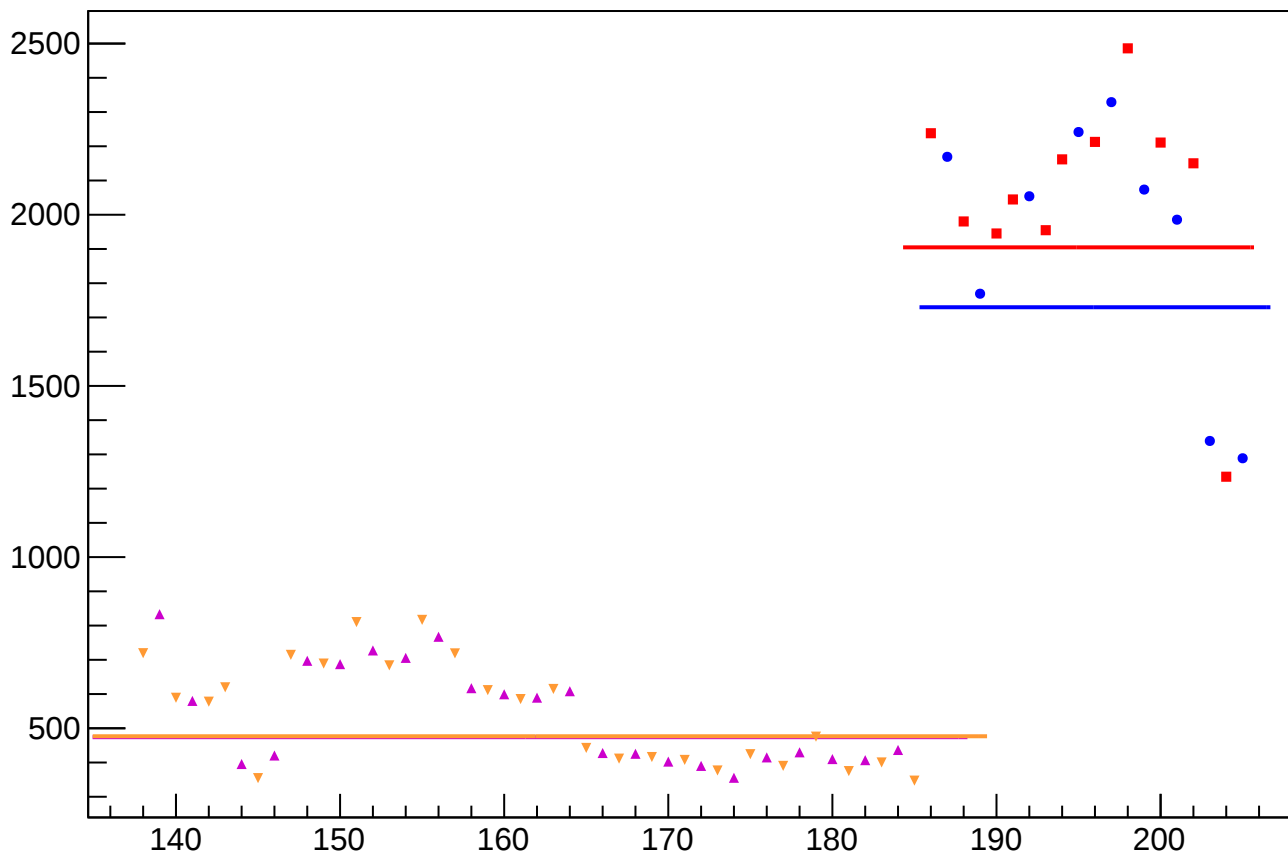
Right: -221.824 $\pm$ 510.389 χ^2 /NDF: 18.8/19

In: 79.536 $\pm$ 115.874 χ^2 /NDF:40.2/31

Out: 445.098 $\pm$ 113.948 χ^2 /NDF:68.4/35

All: 265.381 $\pm$ 81.246 χ^2 /NDF: 113.6/67

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1729.811+/-0.502 χ^2/NDF : 630997.4/8

Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24

Right Out: 1904.750+/-0.519 χ^2/NDF : 631264.6/10

Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47

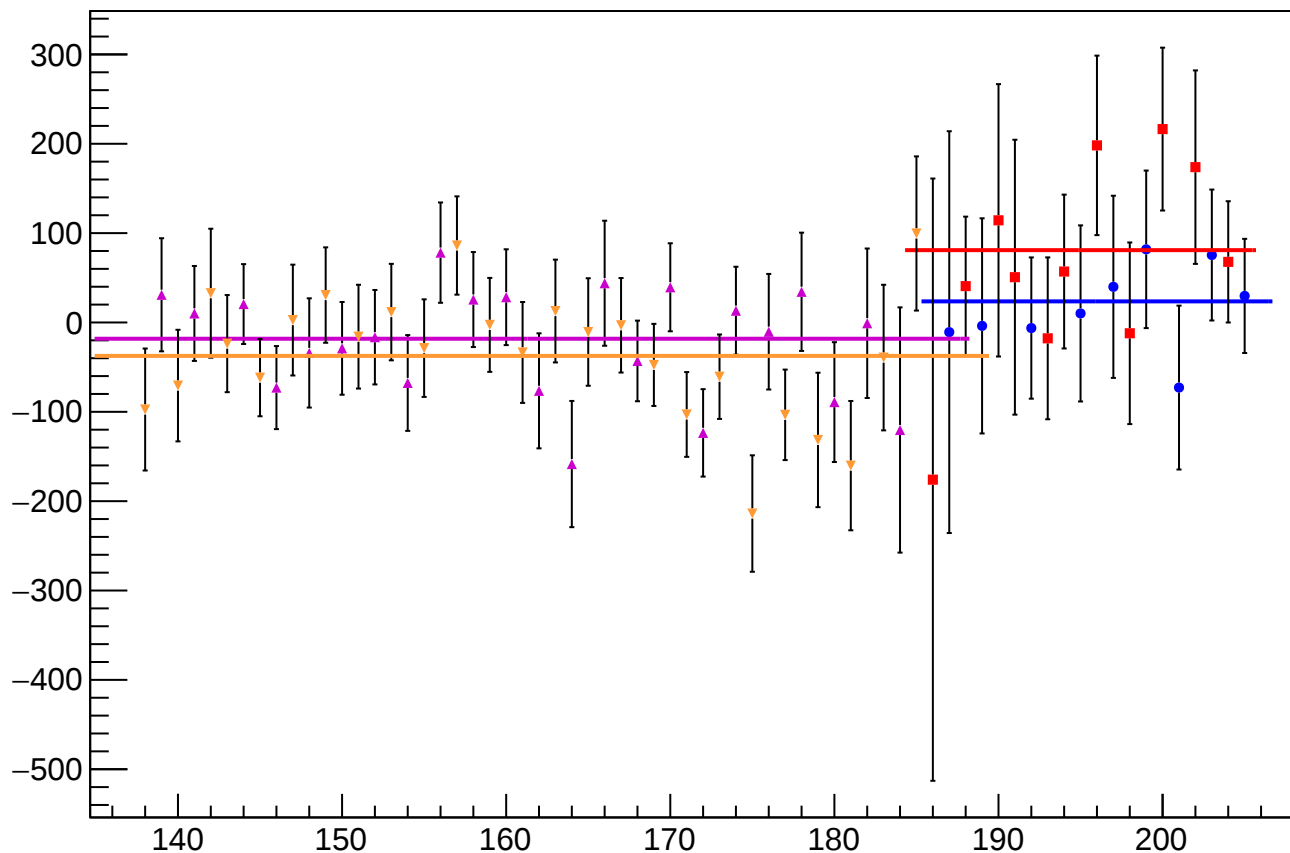
Right: 1814.368+/-0.361 χ^2/NDF : 1320938.2/19

In: 507.426+/-0.082 χ^2/NDF : 8807354.6/31

Out: 511.095+/-0.081 χ^2/NDF : 10489680.9/35

All: 509.291+/-0.057 χ^2/NDF : 19298054.8/67

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 23.609 $\pm$ 29.791 χ^2 /NDF: 2.3/8

Left Out: -37.413 $\pm$ 11.390 χ^2 /NDF:30.5/24

Right Out: 80.936 $\pm$ 29.681 χ^2 /NDF: 7.4/10

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

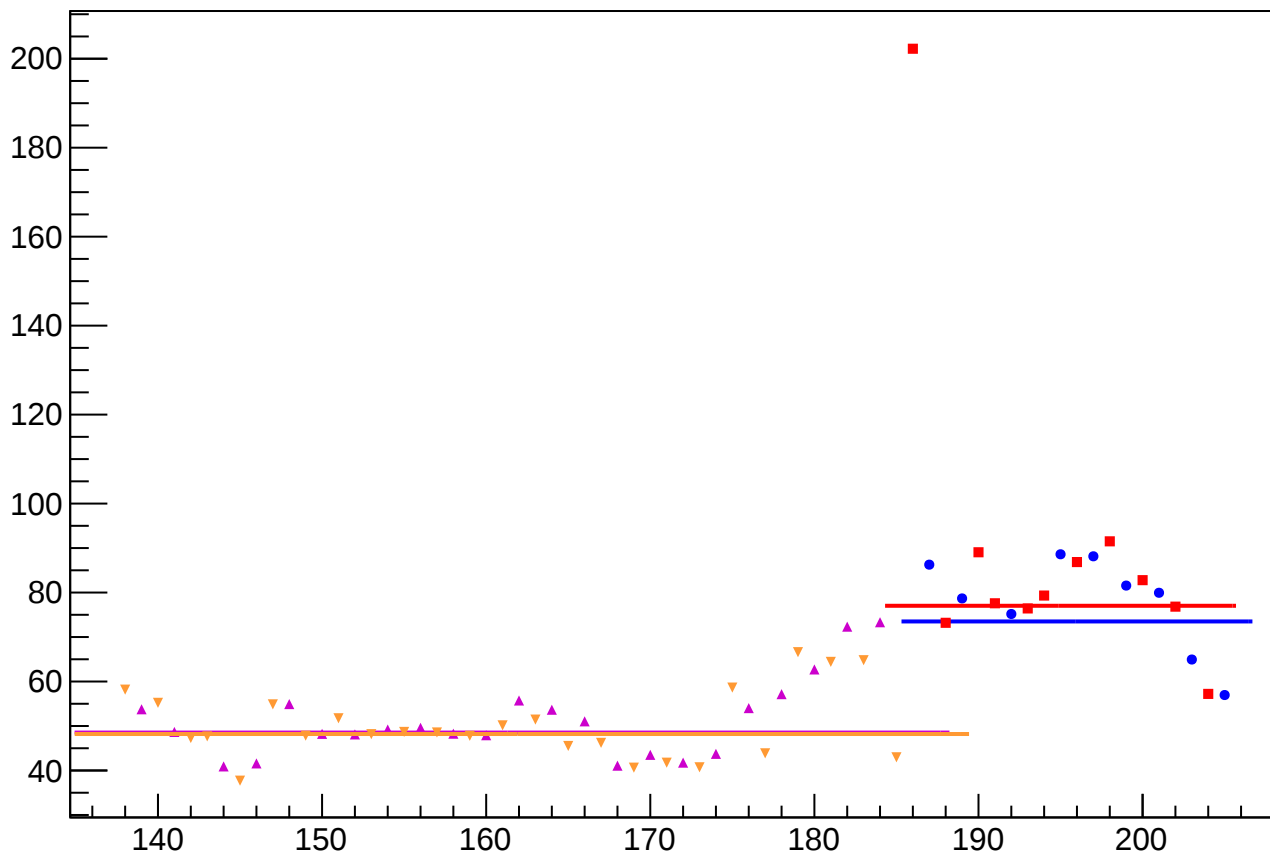
Right: 52.378 $\pm$ 21.026 χ^2 /NDF: 11.6/19

In: -12.549 $\pm$ 10.961 χ^2 /NDF:27.0/31

Out: -22.222 $\pm$ 10.634 χ^2 /NDF:51.7/35

All: -17.532 $\pm$ 7.632 χ^2 /NDF: 79.1/67

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 73.503+/-0.021 χ^2/NDF : 287196.3/8

Left Out: 48.200+/-0.008 χ^2/NDF : 750196.2/24

Right Out: 77.027+/-0.021 χ^2/NDF : 533084.0/10

Left In: 48.527+/-0.008 χ^2/NDF : 675340.8/22

Left: 48.358+/-0.006 χ^2/NDF : 1426333.4/47

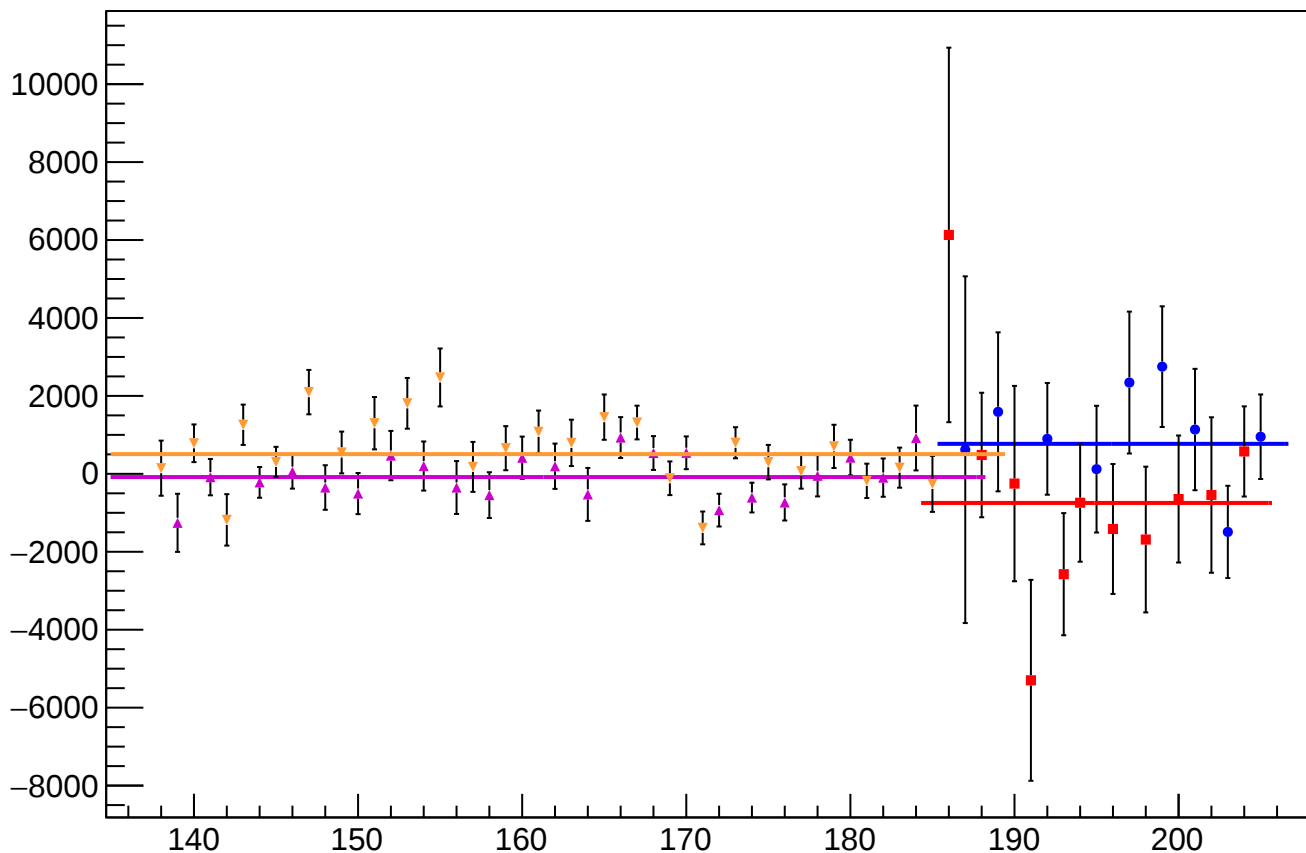
Right: 75.271+/-0.015 χ^2/NDF : 834320.4/19

In: 51.908+/-0.008 χ^2/NDF : 2178051.2/31

Out: 51.900+/-0.008 χ^2/NDF : 2927695.9/35

All: 51.904+/-0.005 χ^2/NDF : 5105747.6/67

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 769.966 $\pm$ 509.615 χ^2 /NDF: 6.4/8

Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24

Right Out: -746.771 $\pm$ 526.384 χ^2 /NDF: 8.9/10

Left In: -82.421 $\pm$ 105.935 χ^2 /NDF:25.3/22

Left: 218.827 $\pm$ 74.020 χ^2 /NDF: 106.9/47

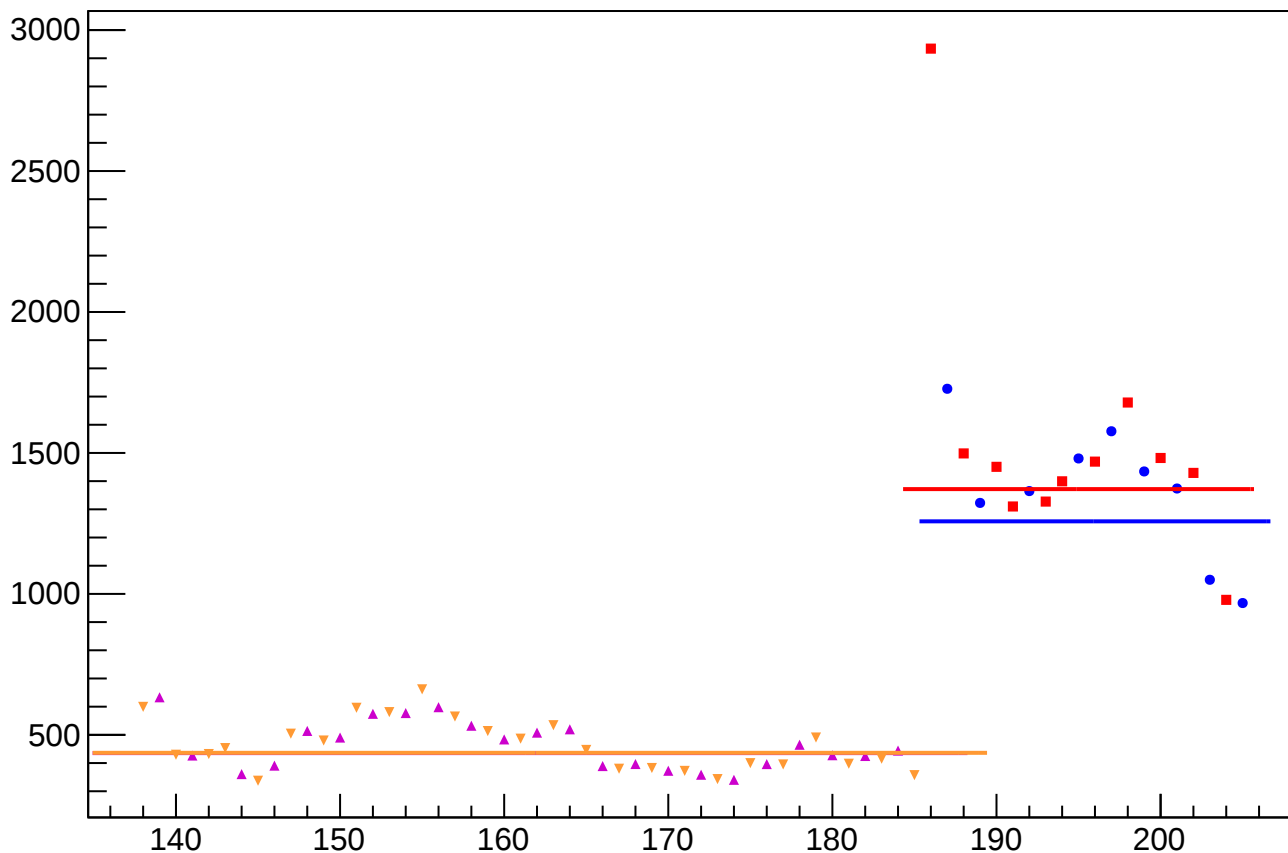
Right: 36.143 $\pm$ 366.137 χ^2 /NDF: 19.6/19

In: -47.114 $\pm$ 103.718 χ^2 /NDF:34.5/31

Out: 459.595 $\pm$ 101.525 χ^2 /NDF:80.1/35

All: 211.654 $\pm$ 72.552 χ^2 /NDF: 126.7/67

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1257.398 $\pm$ 0.360 χ^2 /NDF: 376328.0/8

Left Out: 436.301 $\pm$ 0.073 χ^2 /NDF:1179348.4/24

Right Out: 1371.747 $\pm$ 0.372 χ^2 /NDF: 531668.6/10

Left In: 435.275 $\pm$ 0.075 χ^2 /NDF:1027713.1/22

Left: 435.800 $\pm$ 0.052 χ^2 /NDF: 2207157.7/47

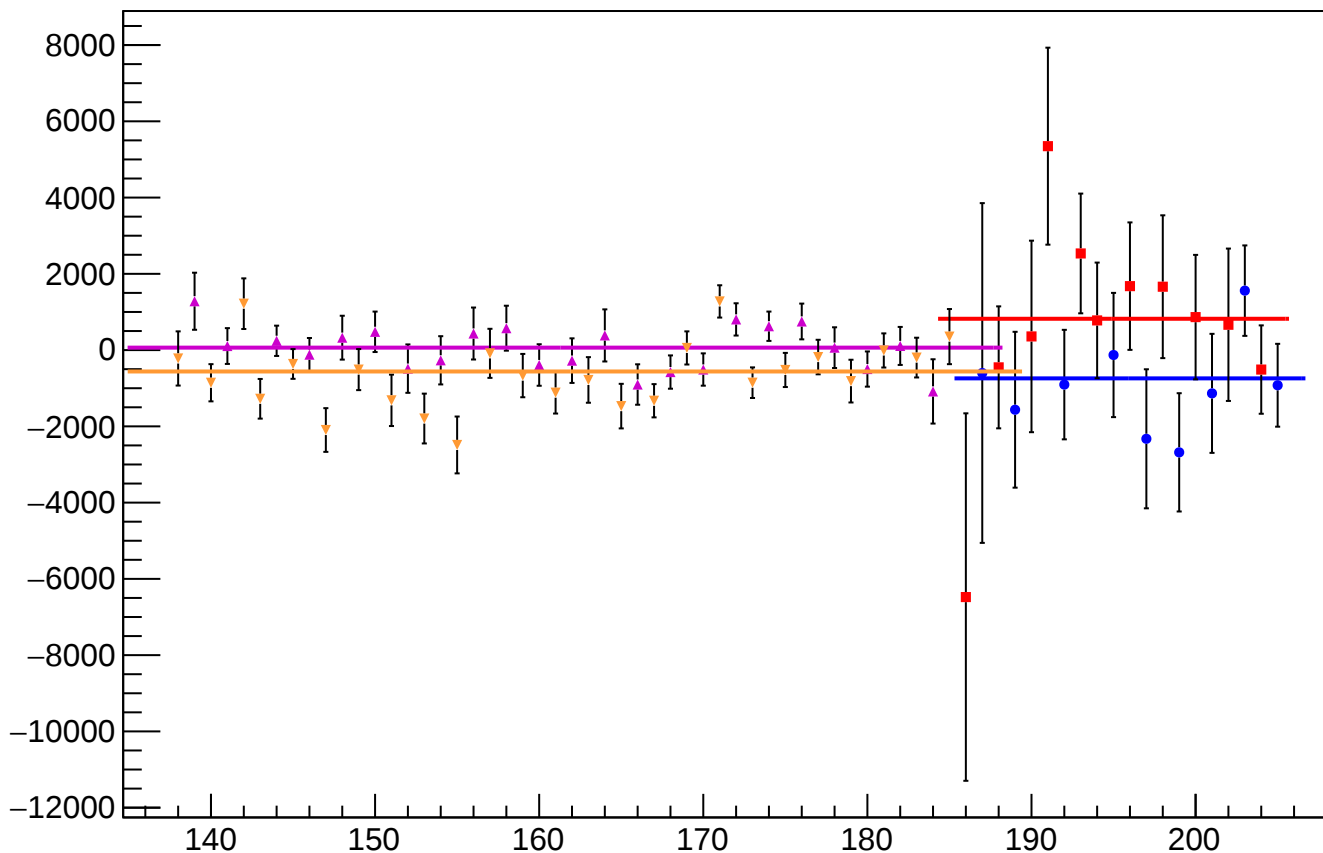
Right: 1312.722 $\pm$ 0.259 χ^2 /NDF: 956714.9/19

In: 469.329 $\pm$ 0.073 χ^2 /NDF:6393437.6/31

Out: 471.100 $\pm$ 0.072 χ^2 /NDF:7792331.8/35

All: 470.233 $\pm$ 0.051 χ^2 /NDF: 14186067.3/67

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -741.552+/-510.552 χ^2/NDF : 6.5/8

Left Out: -560.684+/-104.207 χ^2/NDF :61.8/24

Right Out: 821.534+/-527.303 χ^2/NDF : 9.0/10

Left In: 64.594+/-106.708 χ^2/NDF :25.2/22

Left: -255.457+/-74.554 χ^2/NDF : 104.5/47

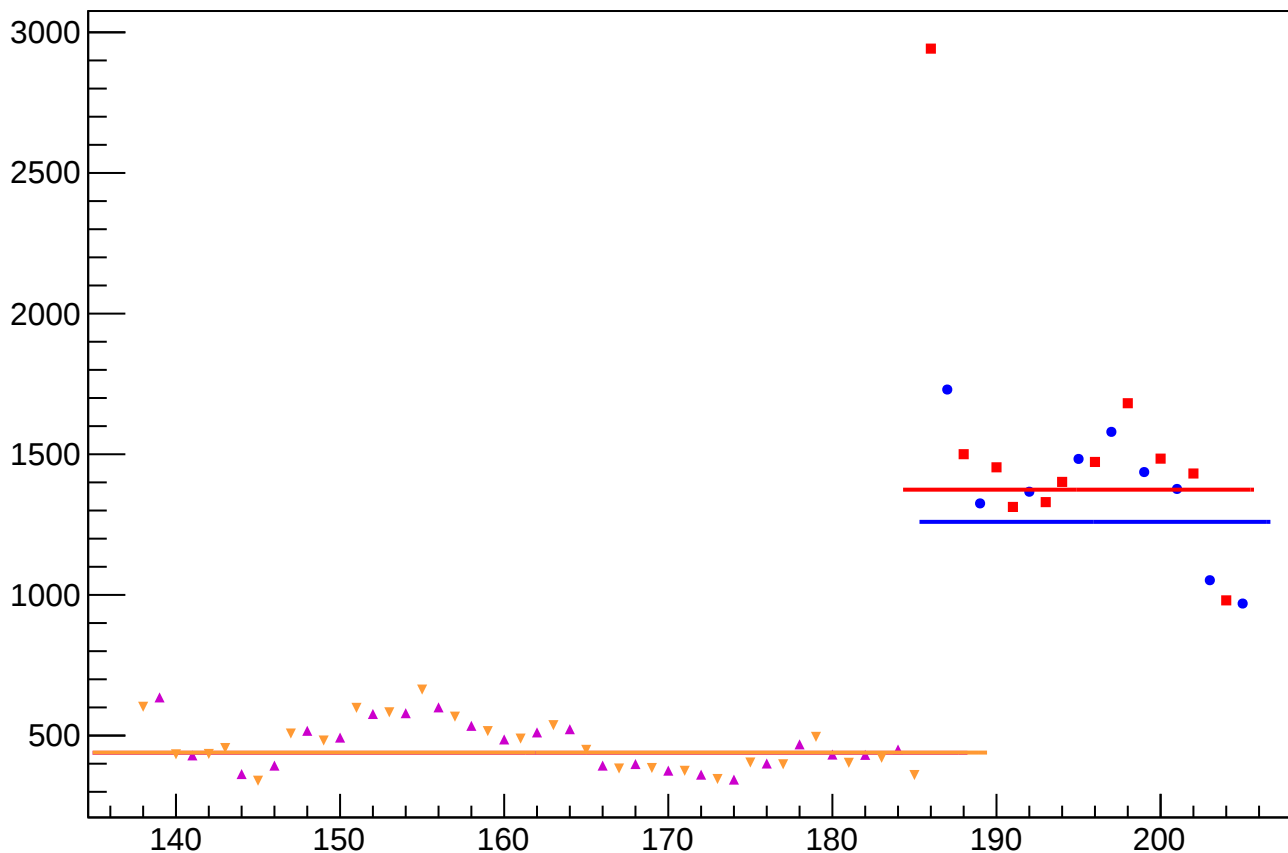
Right: 14.770+/-366.794 χ^2/NDF : 20.0/19

In: 30.853+/-104.451 χ^2/NDF :34.1/31

Out: -508.731+/-102.230 χ^2/NDF :77.4/35

All: -244.735+/-73.060 χ^2/NDF : 125.1/67

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1259.733 $\pm$ 0.361 χ^2 /NDF: 376092.3/8

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF: 1163352.8/24

Right Out: 1374.137 $\pm$ 0.373 χ^2 /NDF: 531797.2/10

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

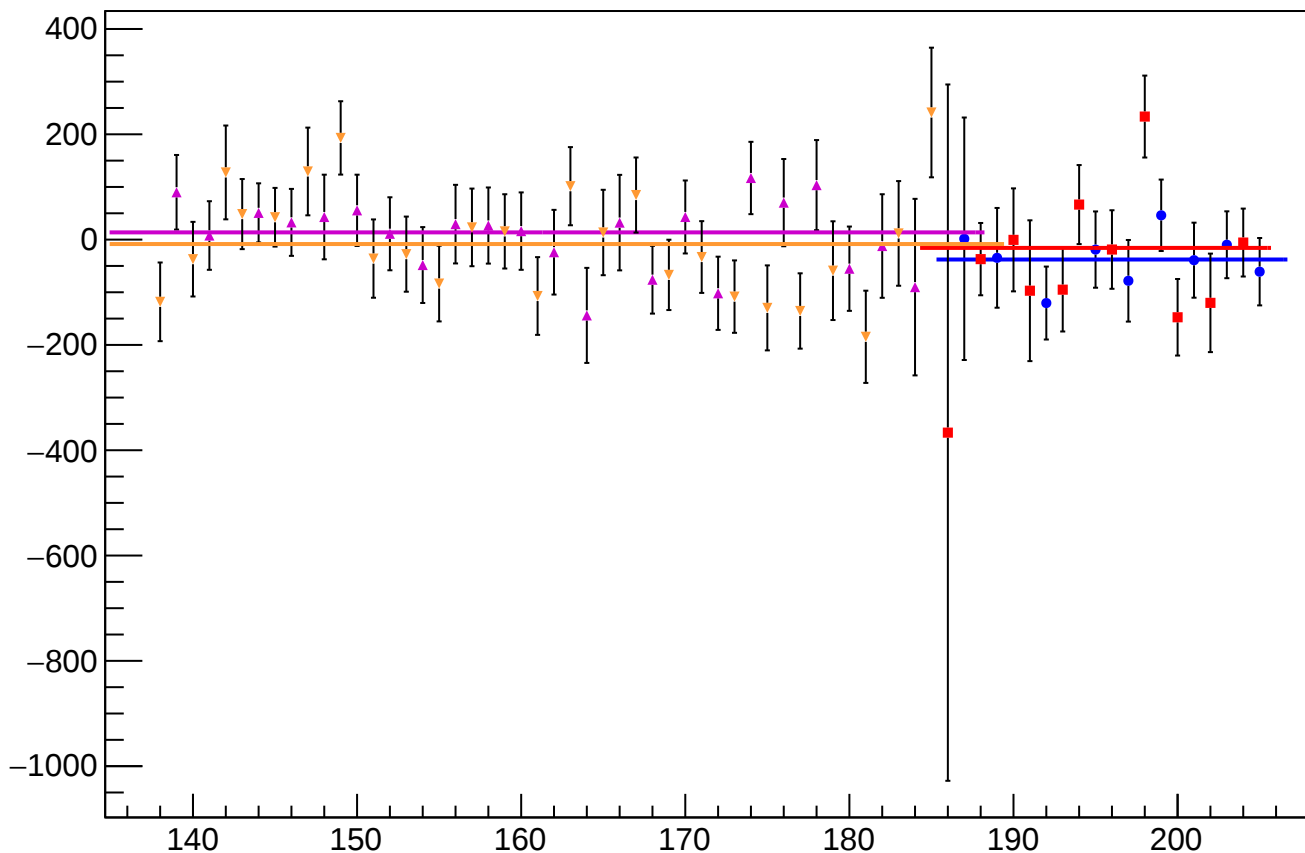
Right: 1315.089 $\pm$ 0.259 χ^2 /NDF: 956481.1/19

In: 472.918 $\pm$ 0.074 χ^2 /NDF: 6346669.3/31

Out: 474.656 $\pm$ 0.072 χ^2 /NDF: 7742053.7/35

All: 473.806 $\pm$ 0.052 χ^2 /NDF: 14089005.9/67

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -37.783 ± 24.981 $\chi^2/\text{NDF}: 3.7/8$

Left Out: -8.416 ± 14.935 $\chi^2/\text{NDF}: 41.6/24$

Right Out: -15.751 ± 25.001 $\chi^2/\text{NDF}: 17.8/10$

Left In: 13.723 ± 15.478 $\chi^2/\text{NDF}: 16.3/22$

Left: 2.258 ± 10.747 $\chi^2/\text{NDF}: 58.9/47$

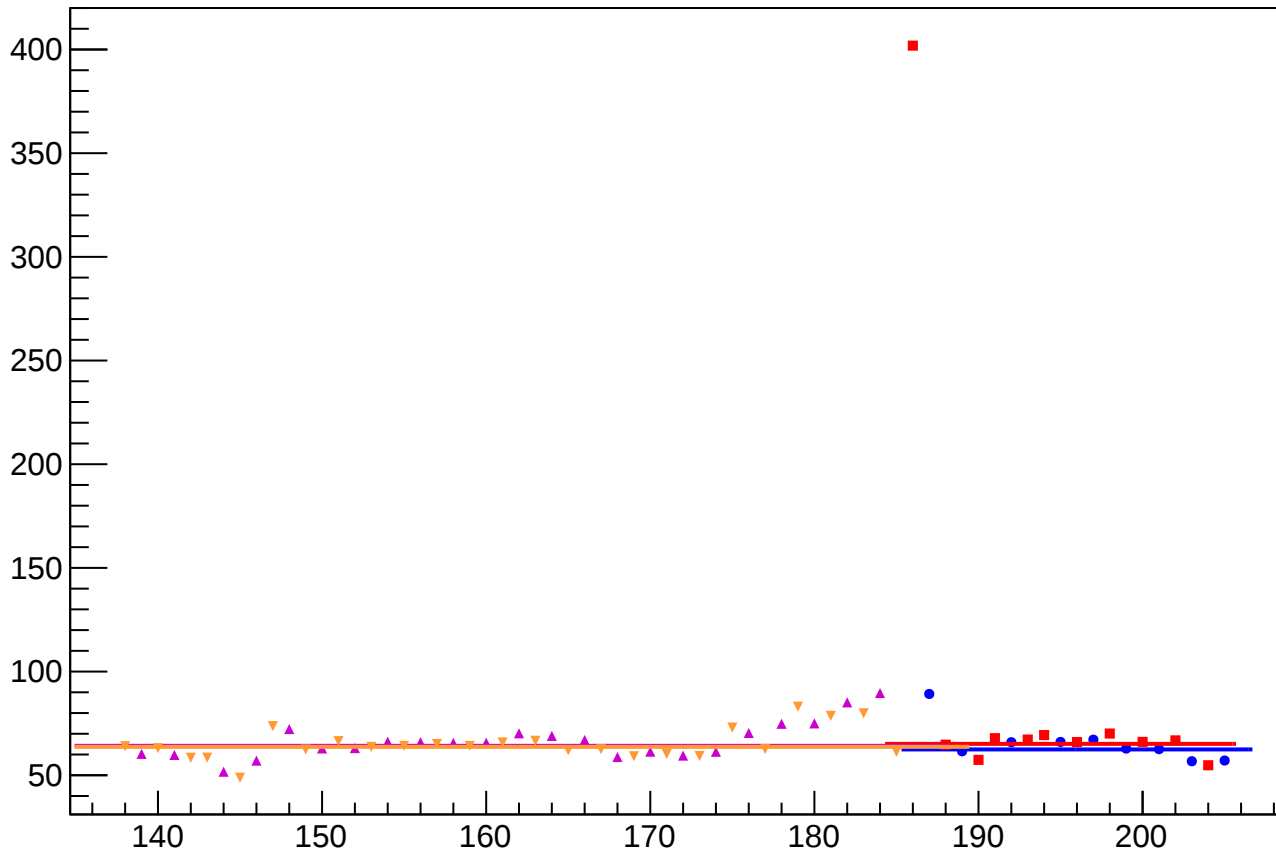
Right: -26.776 ± 17.671 $\chi^2/\text{NDF}: 21.8/19$

In: -0.565 ± 13.157 $\chi^2/\text{NDF}: 23.0/31$

Out: -10.345 ± 12.821 $\chi^2/\text{NDF}: 59.5/35$

All: -5.581 ± 9.182 $\chi^2/\text{NDF}: 82.7/67$

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 62.452 $\pm$ 0.018 χ^2 /NDF: 74809.3/8

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 65.134 $\pm$ 0.018 χ^2 /NDF: 600549.9/10

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

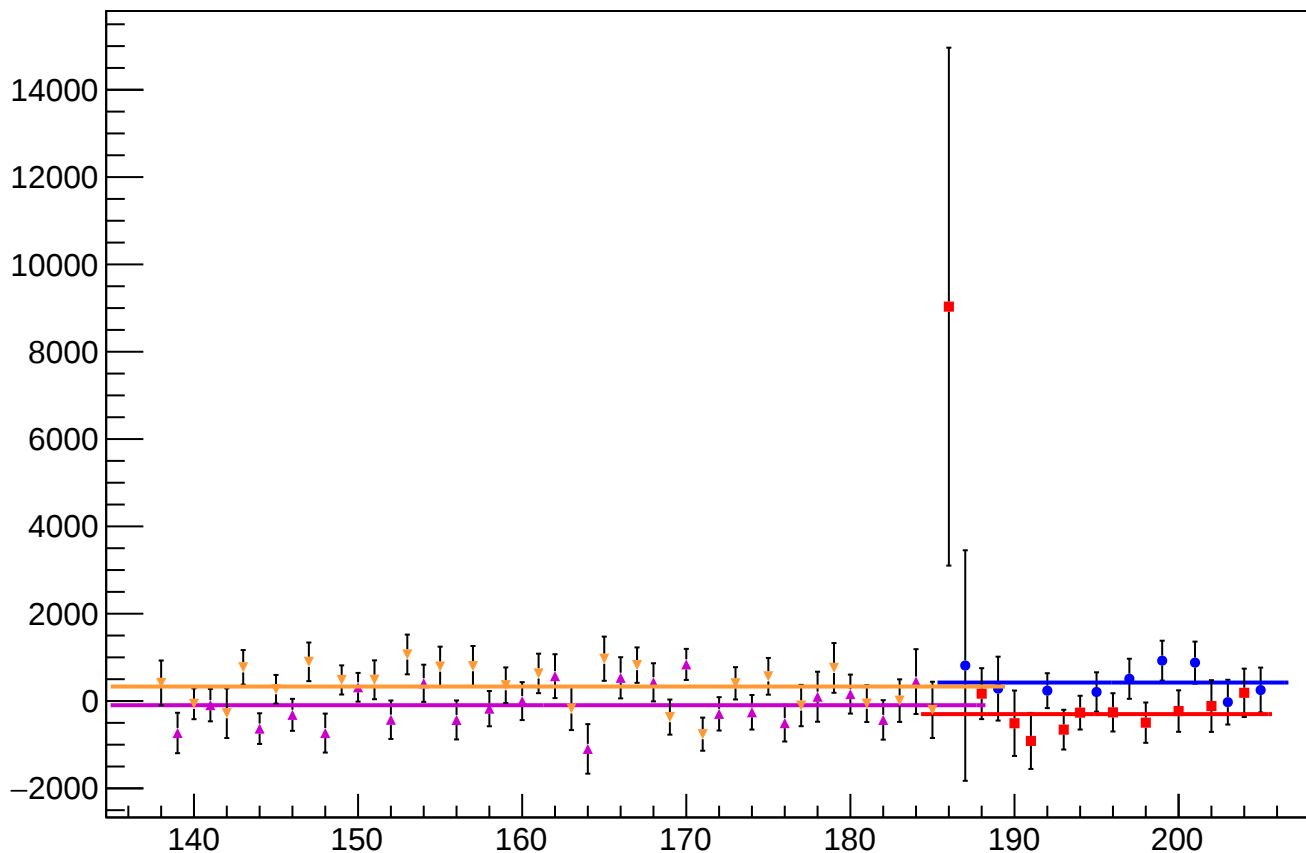
Right: 63.792 $\pm$ 0.012 χ^2 /NDF: 686878.1/19

In: 63.707 $\pm$ 0.009 χ^2 /NDF: 511470.2/31

Out: 64.074 $\pm$ 0.009 χ^2 /NDF: 1053865.1/35

All: 63.895 $\pm$ 0.006 χ^2 /NDF: 1566133.4/67

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 423.091+/-169.926 χ^2/NDF : 3.5/8

Left Out: 331.739+/-86.071 χ^2/NDF : 29.9/24

Right Out: -299.652+/-159.871 χ^2/NDF : 5.8/10

Left In: -95.910+/-88.656 χ^2/NDF : 28.7/22

Left: 124.240+/-61.755 χ^2/NDF : 70.5/47

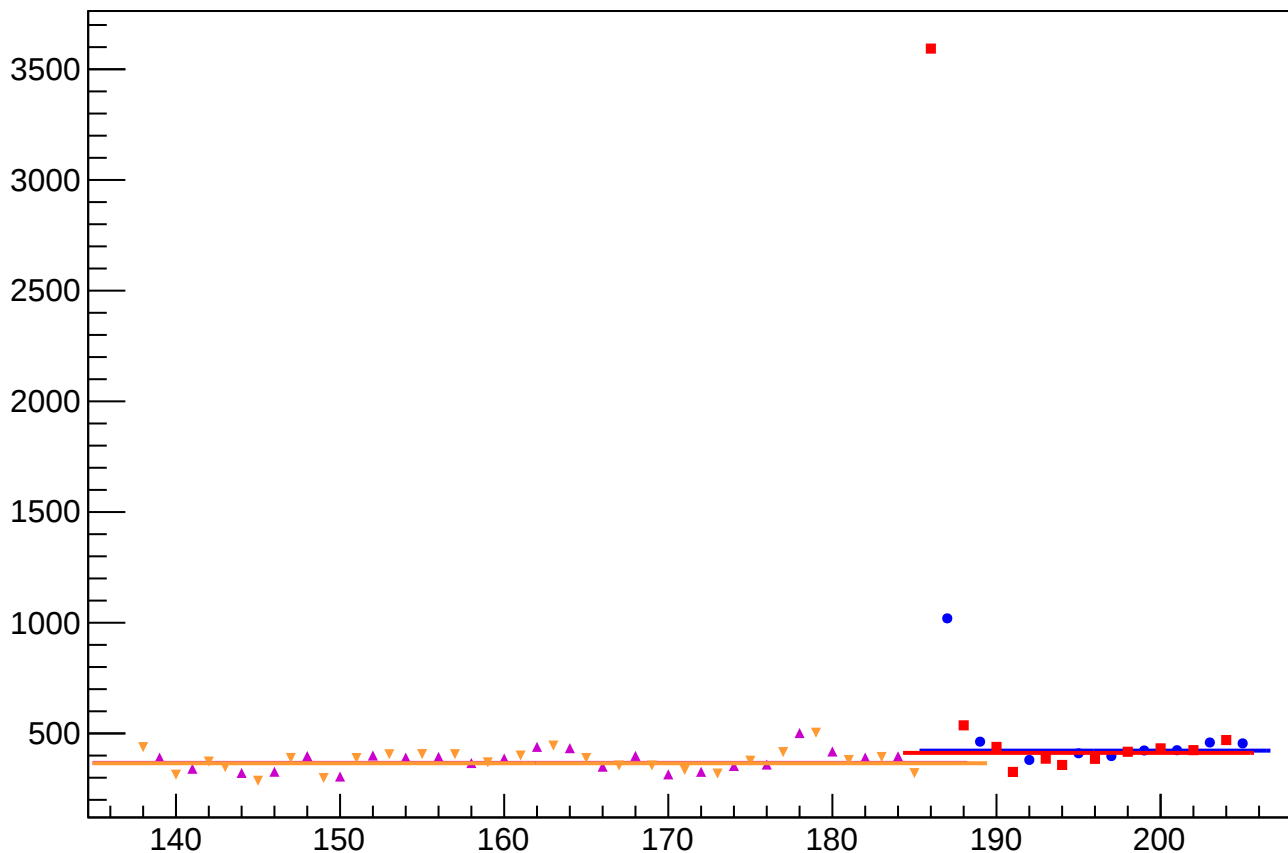
Right: 39.704+/-116.439 χ^2/NDF : 18.9/19

In: 15.137+/-78.601 χ^2/NDF : 39.5/31

Out: 189.855+/-75.786 χ^2/NDF : 47.8/35

All: 105.681+/-54.557 χ^2/NDF : 89.9/67

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 422.282 $\pm$ 0.120 χ^2 /NDF: 156208.0/8

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 412.212 $\pm$ 0.113 χ^2 /NDF: 785522.1/10

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

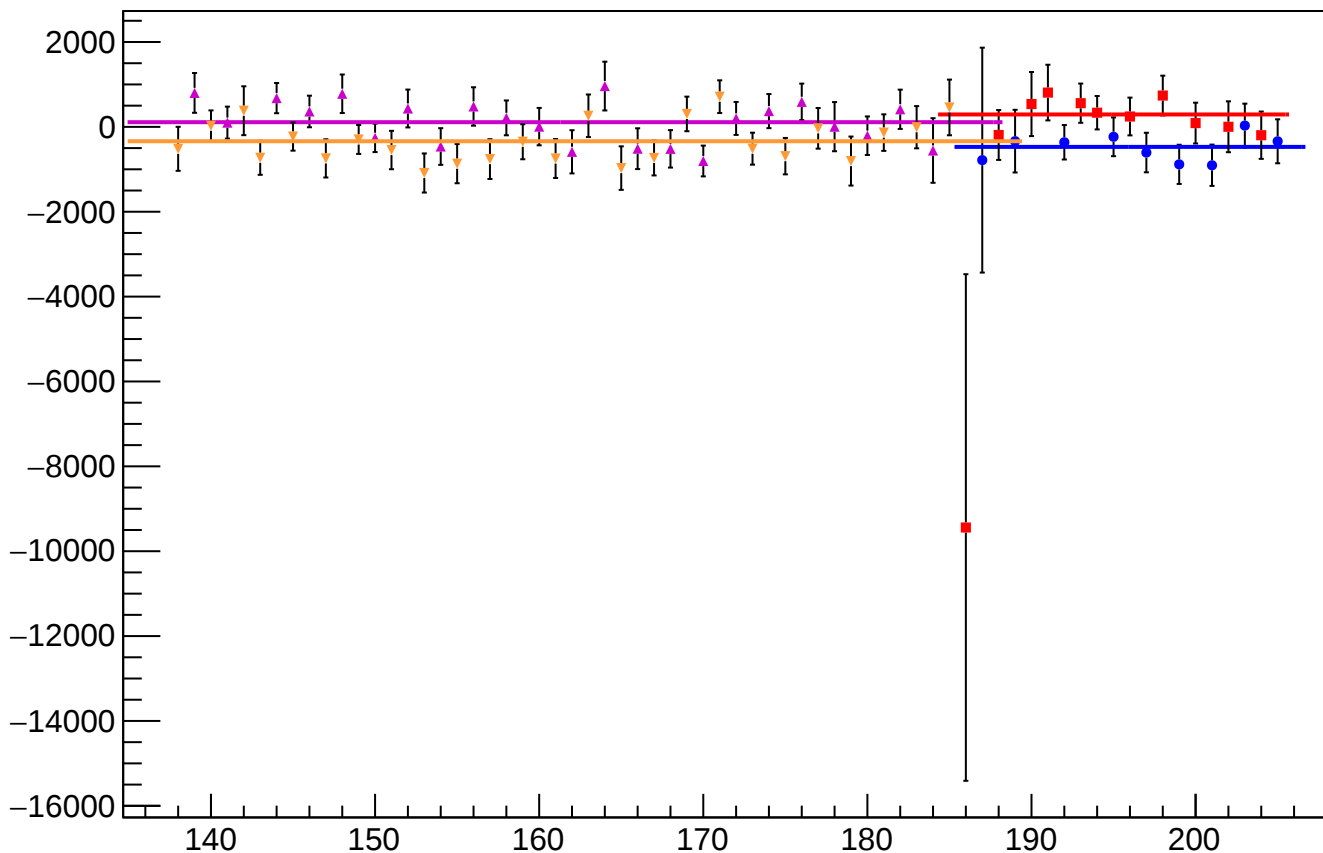
Right: 416.940 $\pm$ 0.082 χ^2 /NDF: 945456.3/19

In: 378.769 $\pm$ 0.056 χ^2 /NDF: 801131.5/31

Out: 375.885 $\pm$ 0.054 χ^2 /NDF: 1537170.5/35

All: 377.274 $\pm$ 0.039 χ^2 /NDF: 2339697.9/67

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -471.706+/-171.948 χ^2/NDF : 3.1/8

Left Out: -338.528+/-87.450 χ^2/NDF :28.2/24

Right Out: 292.393+/-162.109 χ^2/NDF : 6.5/10

Left In: 110.341+/-90.084 χ^2/NDF :29.2/22

Left: -120.751+/-62.747 χ^2/NDF : 70.2/47

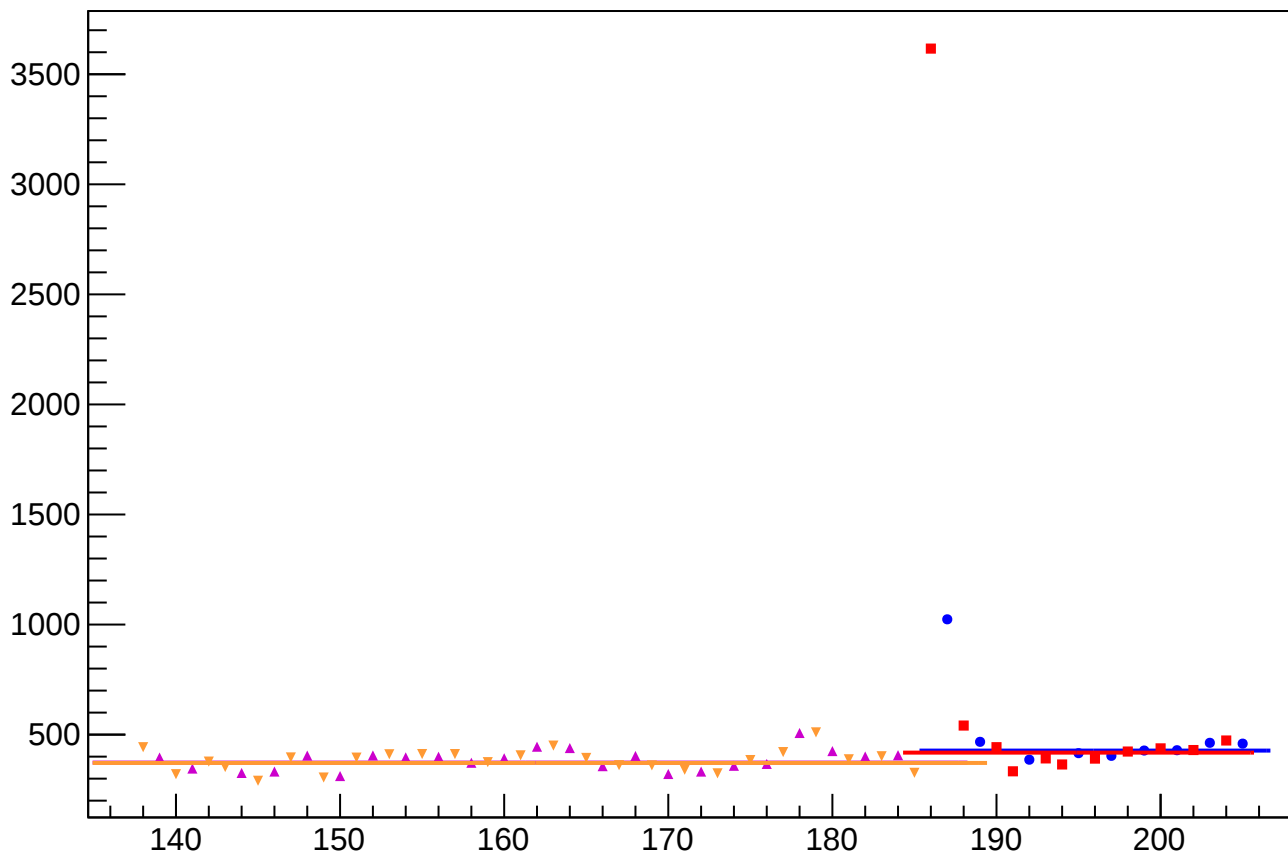
Right: -67.171+/-117.953 χ^2/NDF : 20.0/19

In: -15.010+/-79.796 χ^2/NDF :41.3/31

Out: -196.311+/-76.966 χ^2/NDF :46.4/35

All: -108.933+/-55.396 χ^2/NDF : 90.4/67

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 427.444+/-0.122 χ^2/NDF : 151257.1/8

Left Out: 371.356+/-0.062 χ^2/NDF : 604070.6/24

Right Out: 418.239+/-0.115 χ^2/NDF : 772430.3/10

Left In: 372.938+/-0.064 χ^2/NDF : 467340.9/22

Left: 372.123+/-0.044 χ^2/NDF : 1071729.1/47

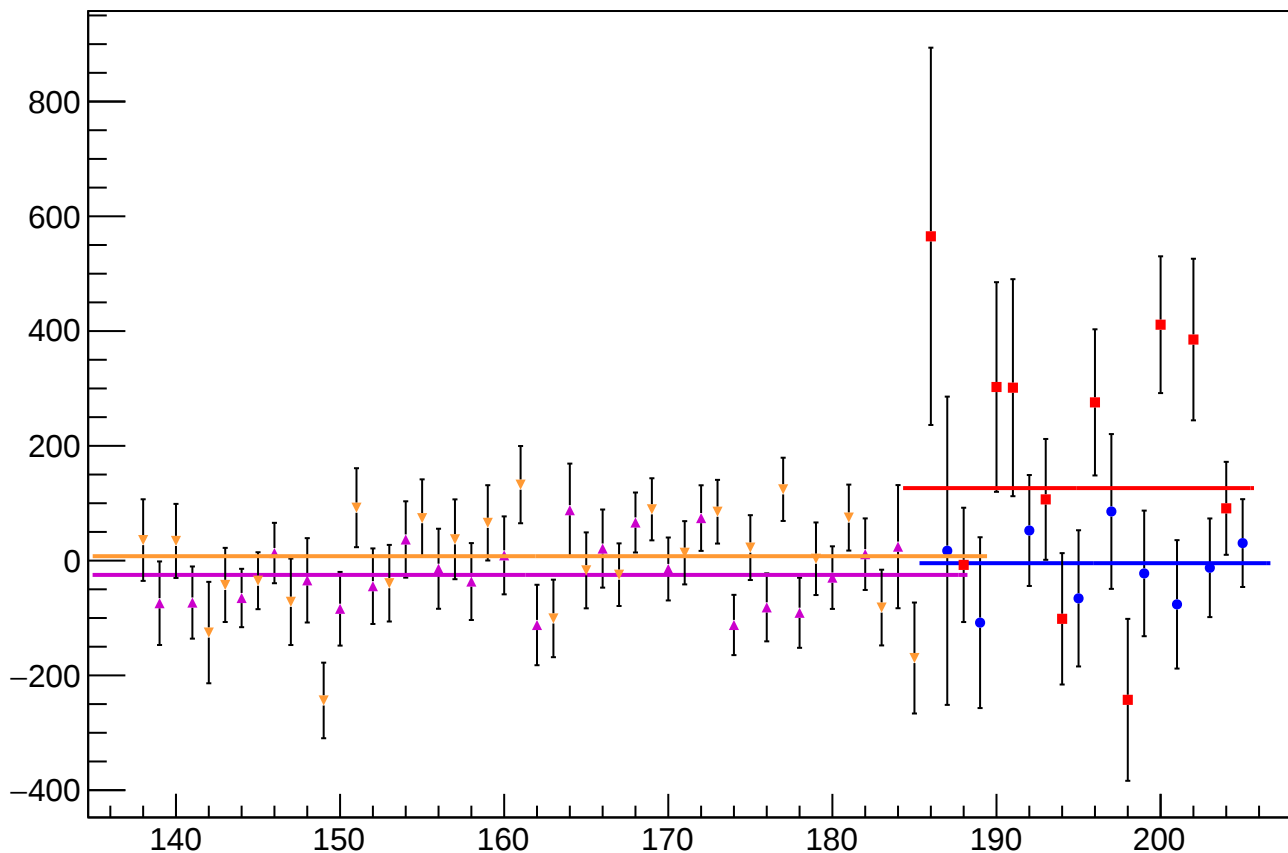
Right: 422.571+/-0.083 χ^2/NDF : 926722.5/19

In: 384.676+/-0.056 χ^2/NDF : 776288.7/31

Out: 381.924+/-0.054 χ^2/NDF : 1506072.6/35

All: 383.250+/-0.039 χ^2/NDF : 2283594.2/67

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -4.463 ± 36.238 $\chi^2/\text{NDF}: 2.2/8$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 126.371 ± 37.275 $\chi^2/\text{NDF}: 26.9/10$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

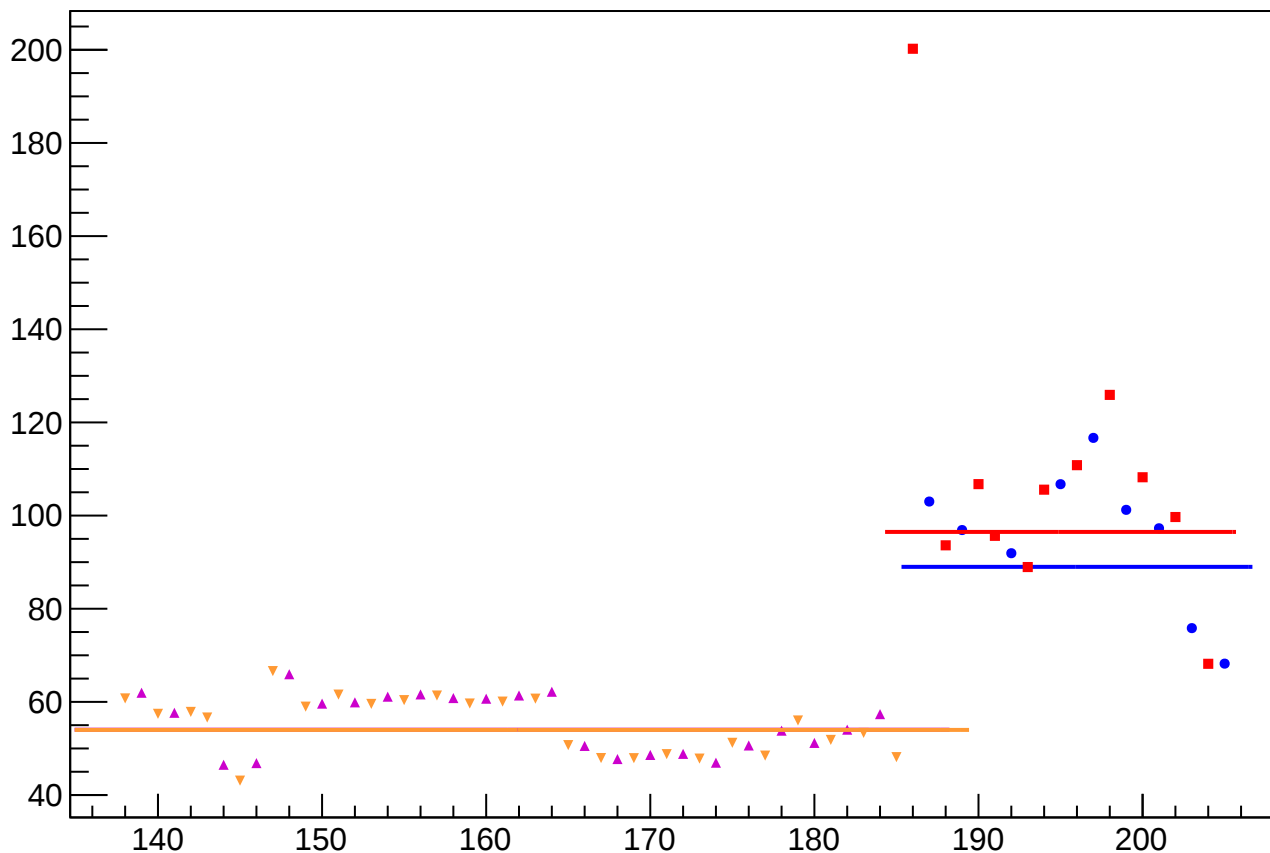
Right: 59.109 ± 25.983 $\chi^2/\text{NDF}: 35.4/19$

In: -22.549 ± 12.260 $\chi^2/\text{NDF}: 22.2/31$

Out: 19.987 ± 11.984 $\chi^2/\text{NDF}: 81.4/35$

All: -0.796 ± 8.570 $\chi^2/\text{NDF}: 109.7/67$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 88.992 $\pm$ 0.026 χ^2/NDF : 372268.1/8

Left Out: 53.984 $\pm$ 0.009 χ^2/NDF : 458972.1/24

Right Out: 96.491 $\pm$ 0.026 χ^2/NDF : 607064.7/10

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

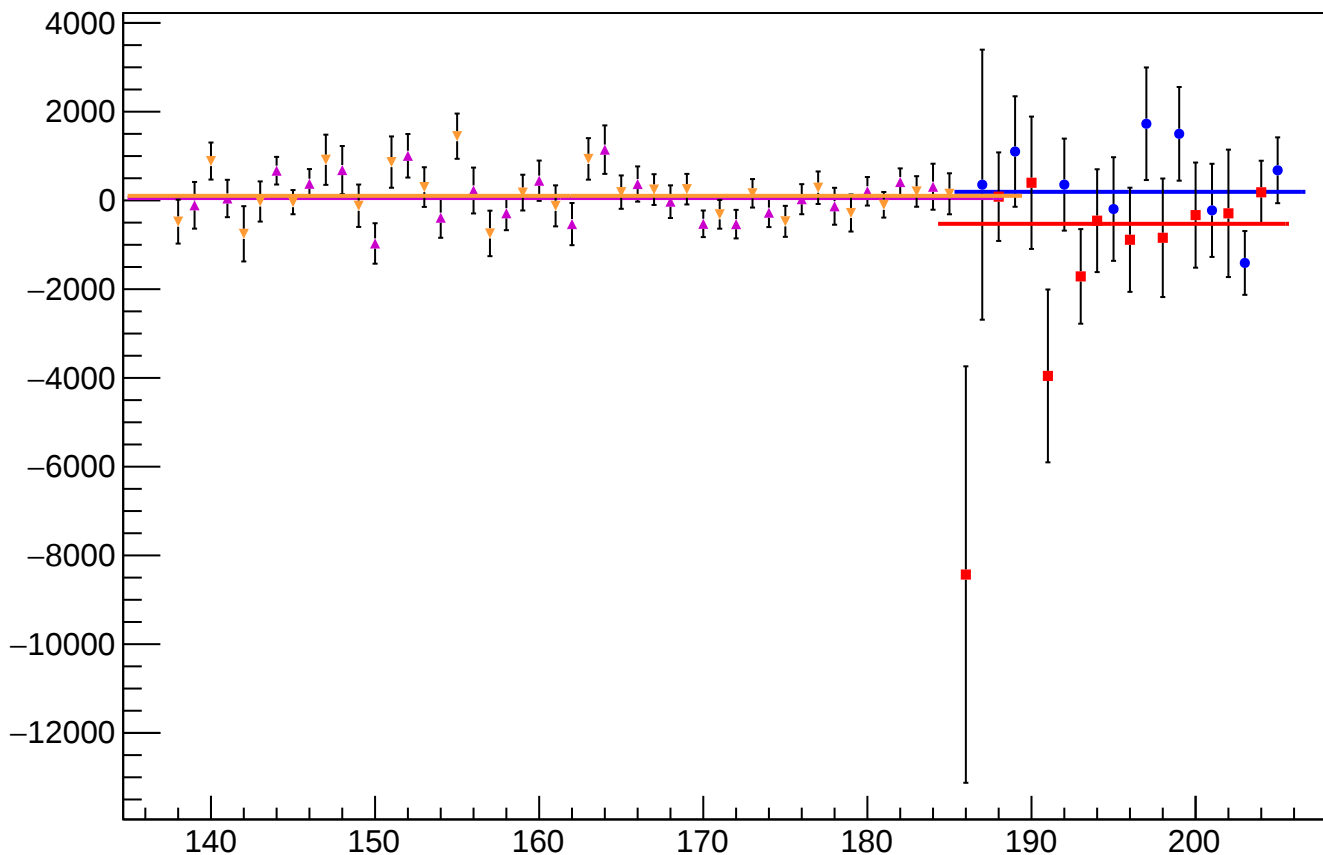
Right: 92.636 $\pm$ 0.018 χ^2/NDF : 1020956.2/19

In: 58.030 $\pm$ 0.009 χ^2/NDF : 2464829.5/31

Out: 58.377 $\pm$ 0.008 χ^2/NDF : 3398153.5/35

All: 58.208 $\pm$ 0.006 χ^2/NDF : 5863804.0/67

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 193.501 $\pm$ 341.087 χ^2 /NDF: 9.2/8

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -527.189 $\pm$ 356.938 χ^2 /NDF: 9.1/10

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

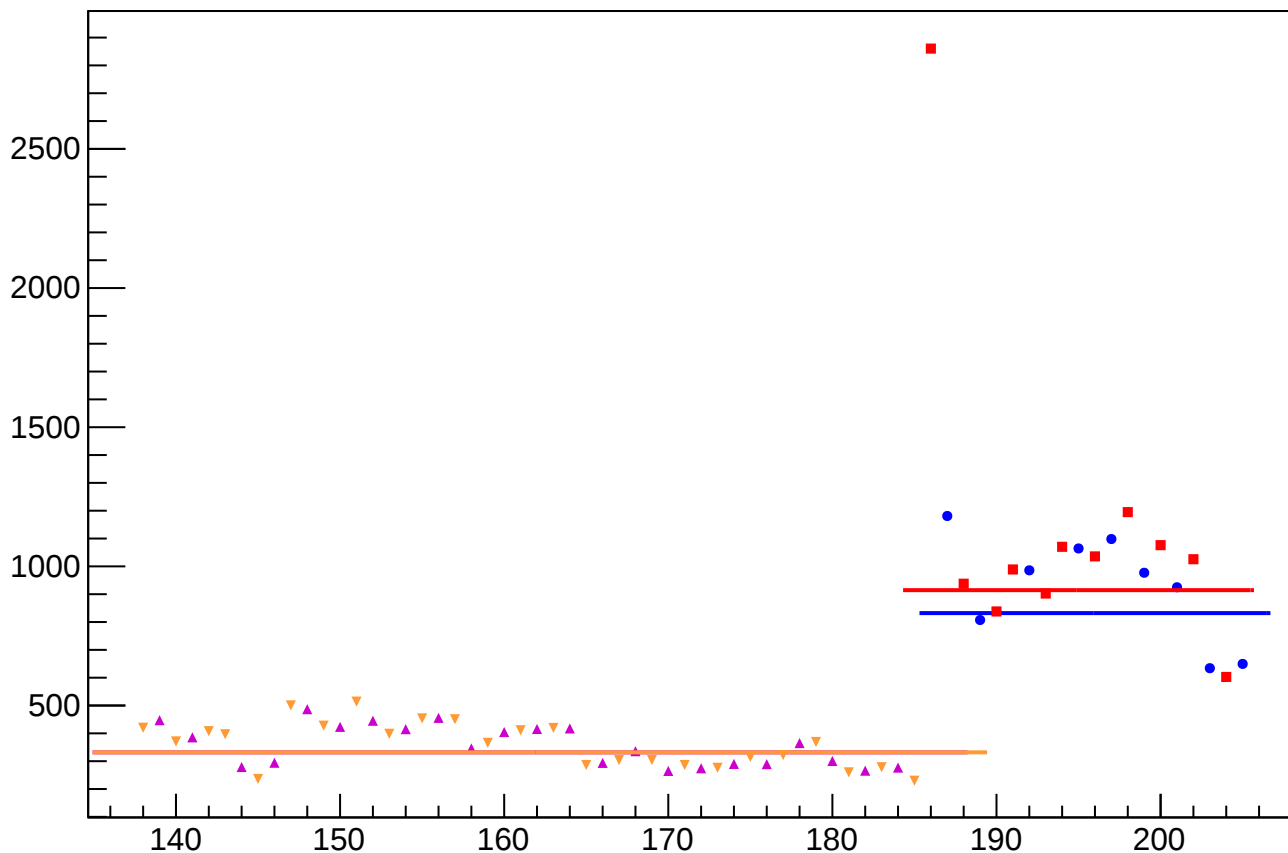
Right: -150.487 $\pm$ 246.598 χ^2 /NDF: 20.5/19

In: 61.002 $\pm$ 78.993 χ^2 /NDF:43.5/31

Out: 74.058 $\pm$ 77.454 χ^2 /NDF:43.1/35

All: 67.659 $\pm$ 55.304 χ^2 /NDF: 86.6/67

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 832.071+/-0.241 χ^2/NDF : 564267.5/8

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 914.518+/-0.252 χ^2/NDF : 932770.8/10

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

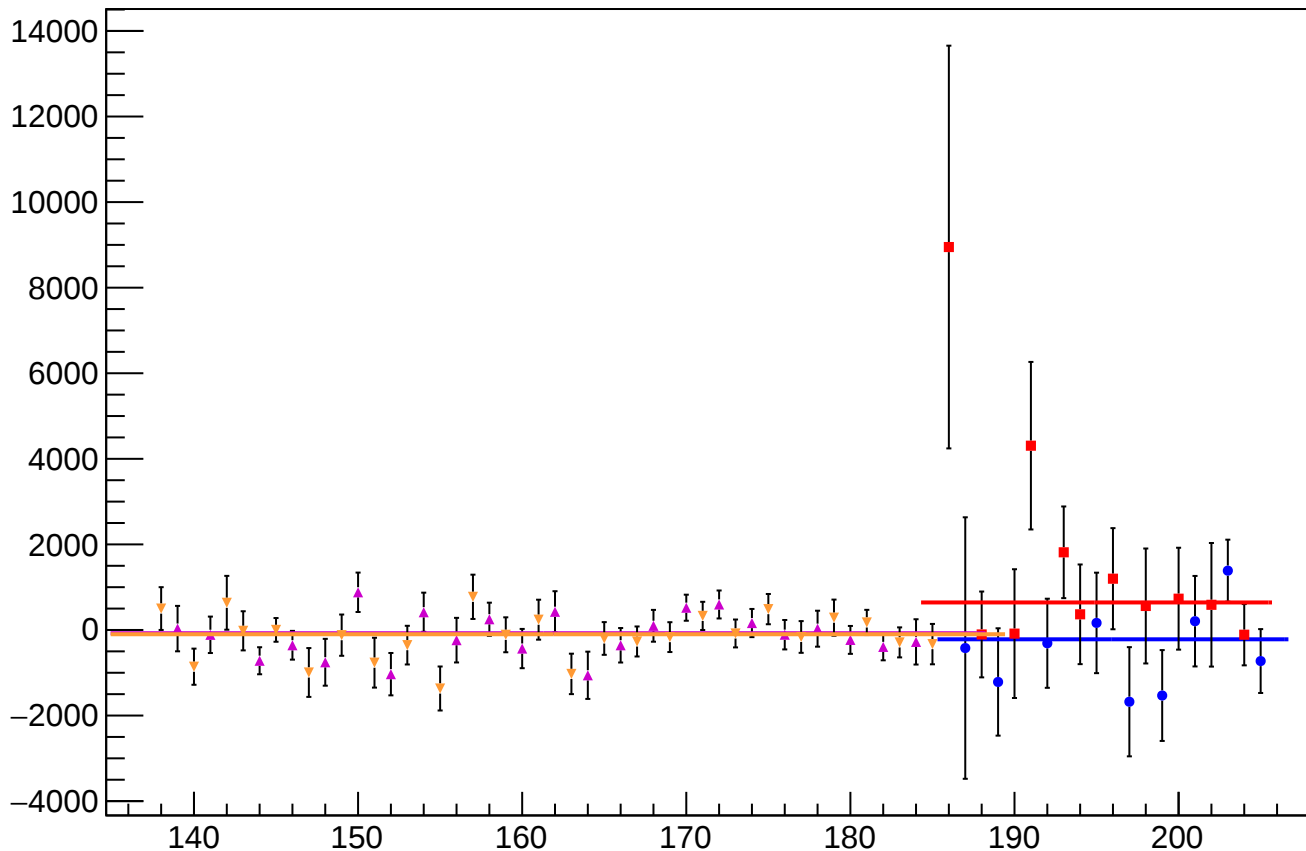
Right: 871.423+/-0.174 χ^2/NDF : 1552813.2/19

In: 358.505+/-0.056 χ^2/NDF : 5941278.2/31

Out: 359.210+/-0.055 χ^2/NDF : 7724432.0/35

All: 358.865+/-0.039 χ^2/NDF : 13665791.3/67

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -218.051+/-343.252 χ^2/NDF : 9.1/8

Left Out: -99.785+/-80.428 χ^2/NDF :30.7/24

Right Out: 643.164+/-359.082 χ^2/NDF : 10.0/10

Left In: -75.579+/-82.319 χ^2/NDF :32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

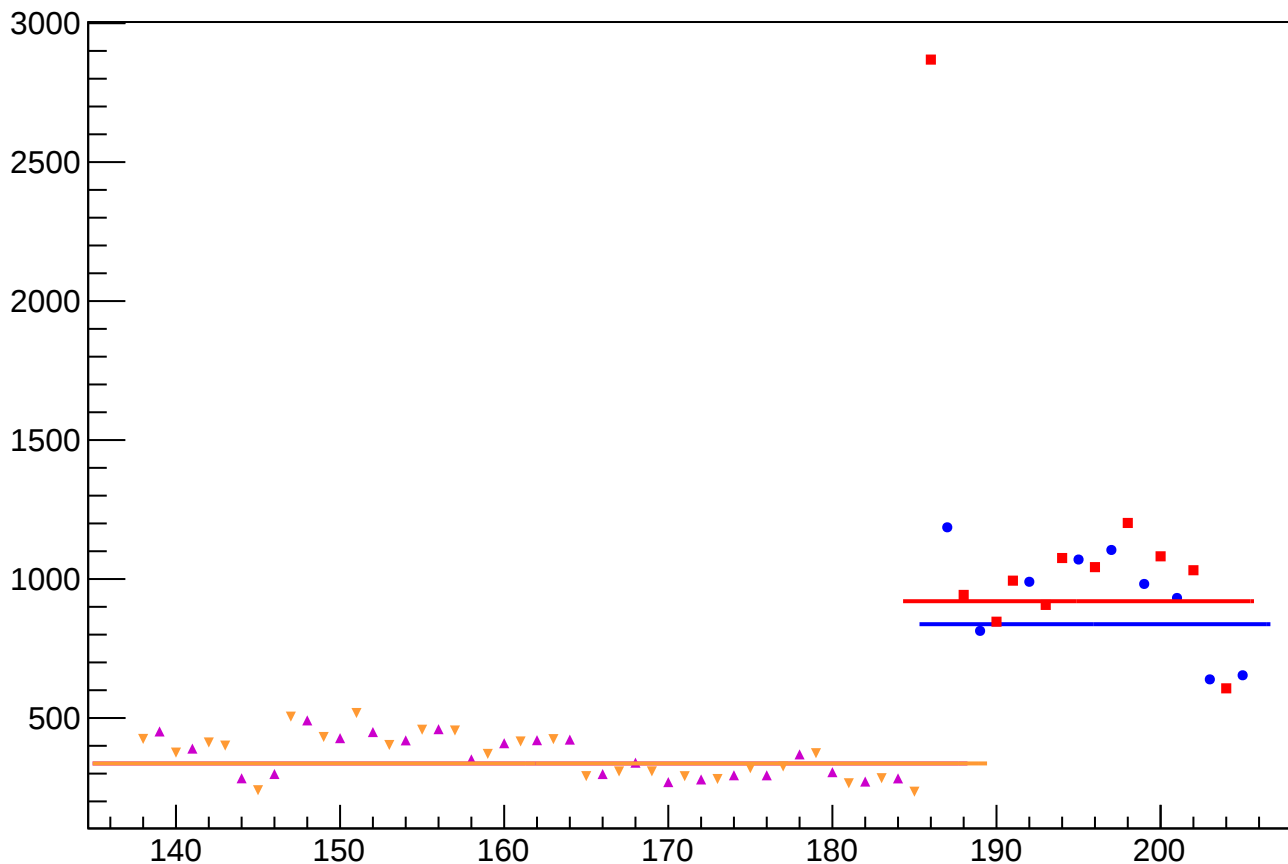
Right: 193.155+/-248.123 χ^2/NDF : 22.1/19

In: -83.328+/-80.049 χ^2/NDF :41.4/31

Out: -64.293+/-78.483 χ^2/NDF :44.7/35

All: -73.623+/-56.041 χ^2/NDF : 86.1/67

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 837.535 $\pm$ 0.243 χ^2 /NDF: 560451.4/8

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF:1665919.4/24

Right Out: 920.210 $\pm$ 0.254 χ^2 /NDF: 928757.7/10

Left In: 336.439 $\pm$ 0.058 χ^2 /NDF:1269066.3/22

Left: 336.500 $\pm$ 0.041 χ^2 /NDF: 2934987.9/47

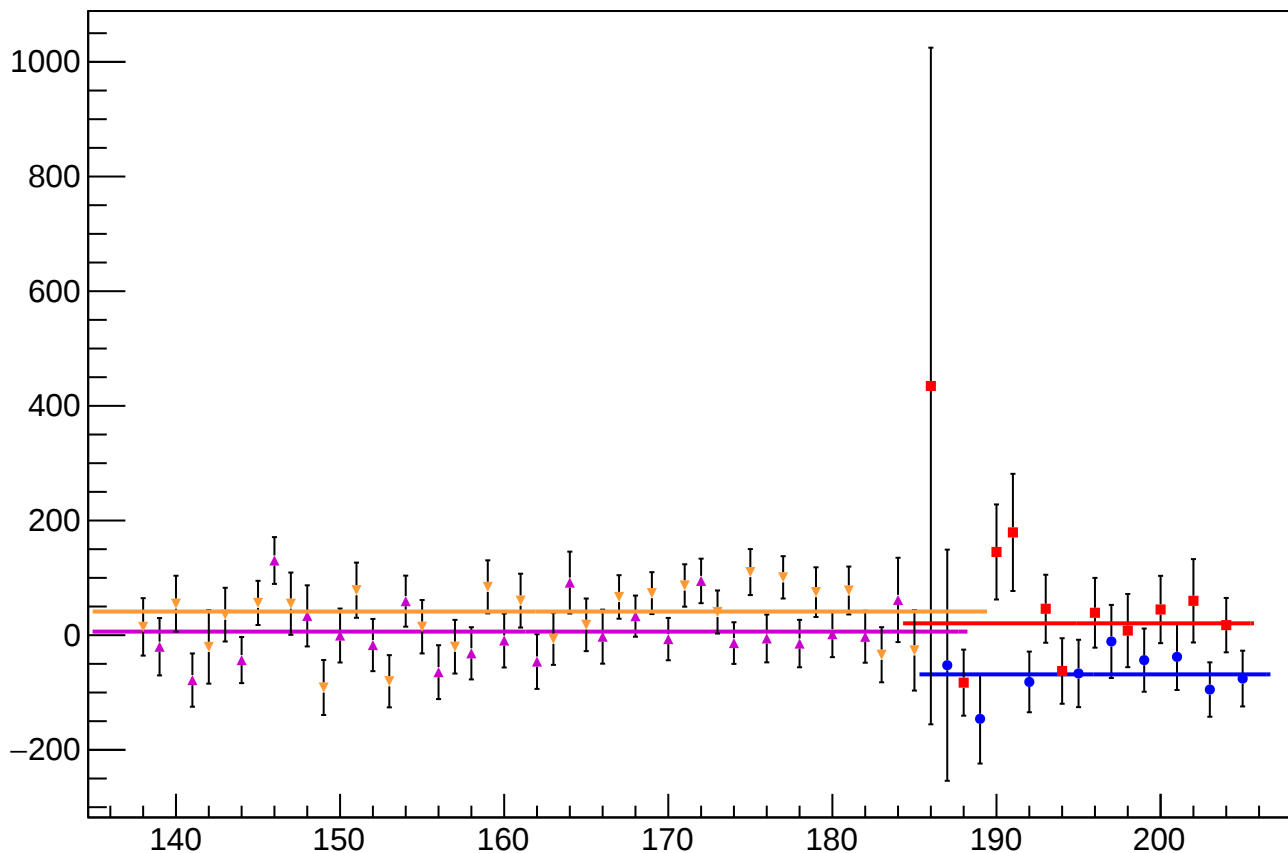
Right: 877.010 $\pm$ 0.175 χ^2 /NDF: 1544608.3/19

In: 363.692 $\pm$ 0.057 χ^2 /NDF:5860018.5/31

Out: 364.439 $\pm$ 0.055 χ^2 /NDF:7626123.9/35

All: 364.073 $\pm$ 0.040 χ^2 /NDF: 13486231.2/67

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -68.351 ± 19.694 $\chi^2/\text{NDF}: 2.7/8$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: 20.694 ± 19.708 $\chi^2/\text{NDF}: 11.3/10$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

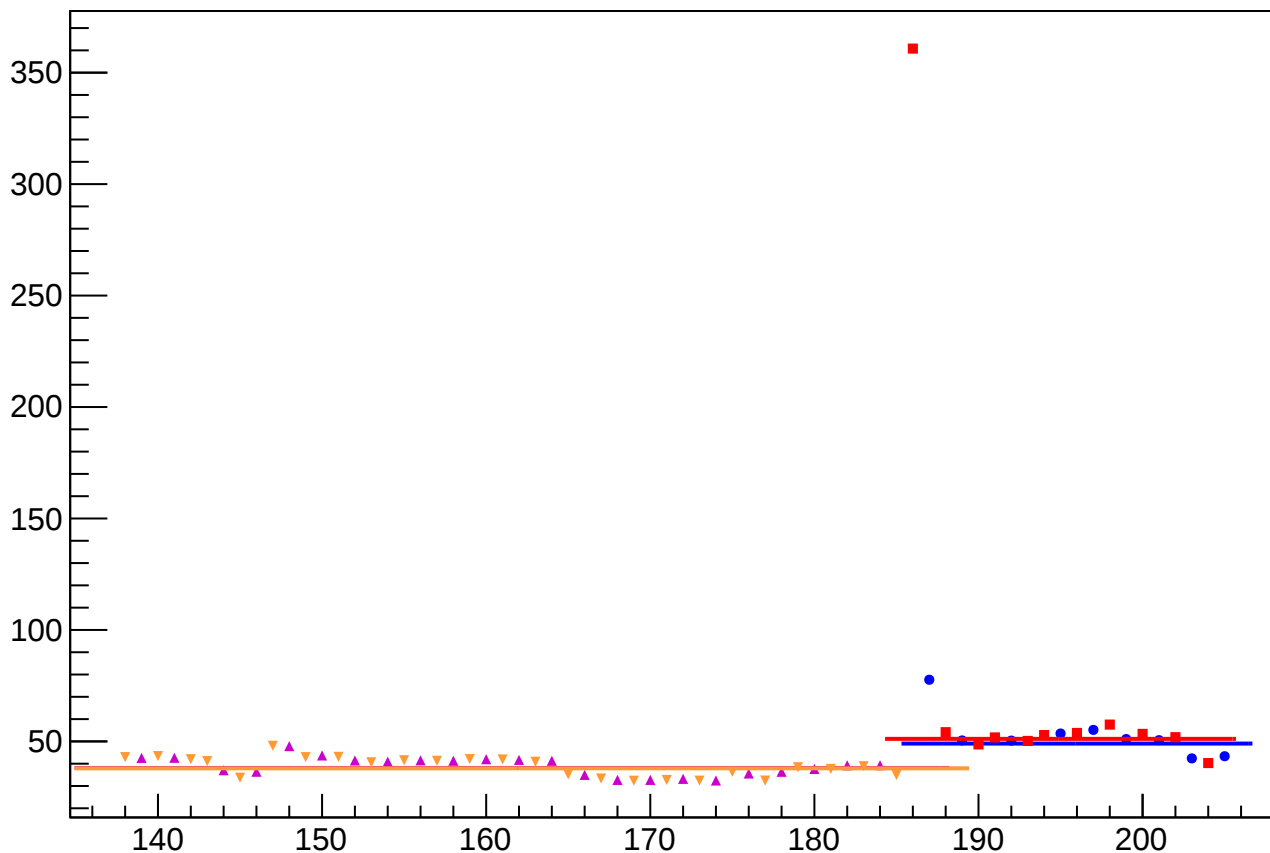
Right: -23.860 ± 13.931 $\chi^2/\text{NDF}: 24.2/19$

In: -7.050 ± 8.316 $\chi^2/\text{NDF}: 44.8/31$

Out: 37.803 ± 8.103 $\chi^2/\text{NDF}: 46.6/35$

All: 15.959 ± 5.804 $\chi^2/\text{NDF}: 106.2/67$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 49.029 $\pm$ 0.014 χ^2 /NDF: 143194.3/8

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 51.143 $\pm$ 0.014 χ^2 /NDF: 691733.1/10

Left In: 38.087 $\pm$ 0.006 χ^2 /NDF: 396334.5/22

Left: 38.004 $\pm$ 0.005 χ^2 /NDF: 883742.3/47

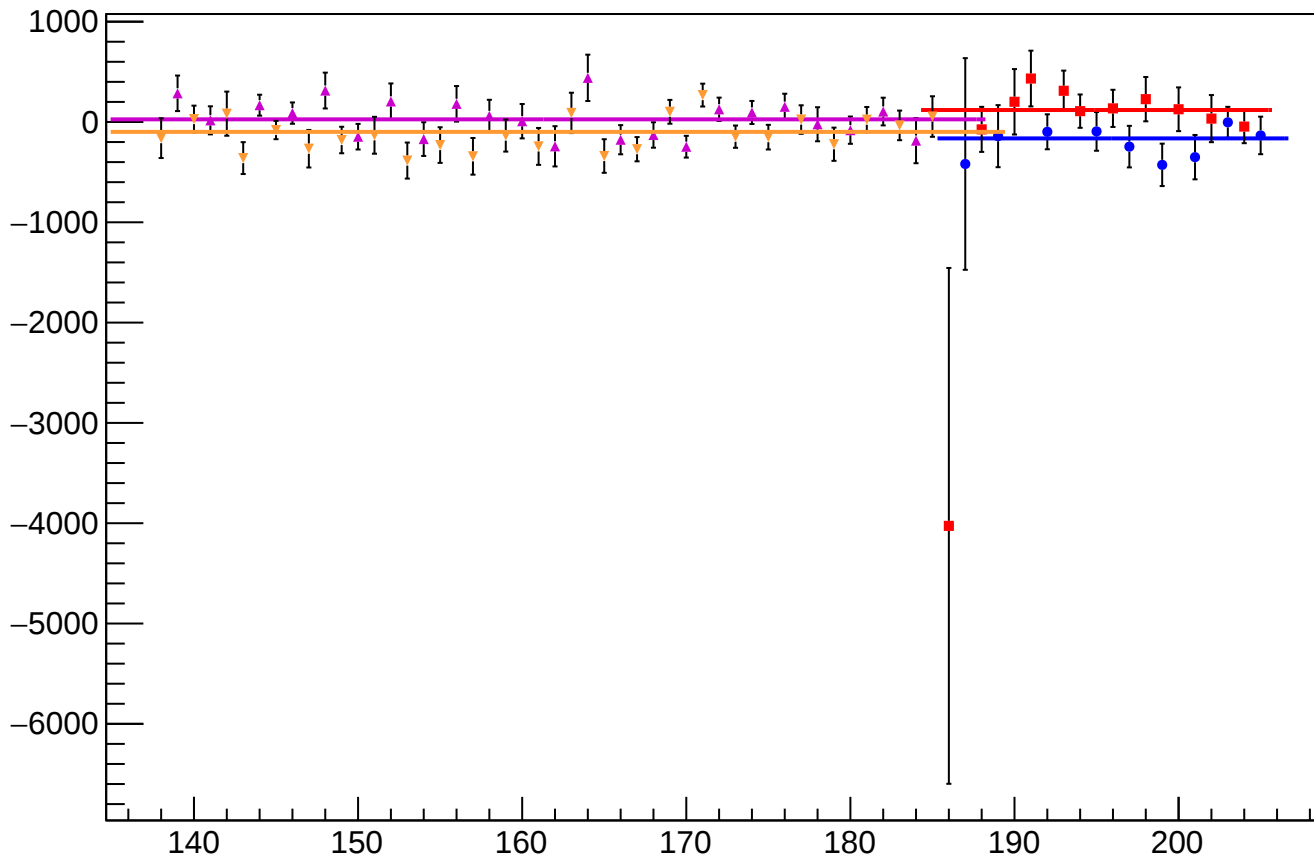
Right: 50.085 $\pm$ 0.010 χ^2 /NDF: 846443.1/19

In: 40.038 $\pm$ 0.006 χ^2 /NDF: 1046742.0/31

Out: 40.160 $\pm$ 0.006 χ^2 /NDF: 1926338.5/35

All: 40.101 $\pm$ 0.004 χ^2 /NDF: 2973298.3/67

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -163.696 ± 69.366 χ^2/NDF : 3.9/8

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 119.305 ± 66.141 χ^2/NDF : 7.0/10

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

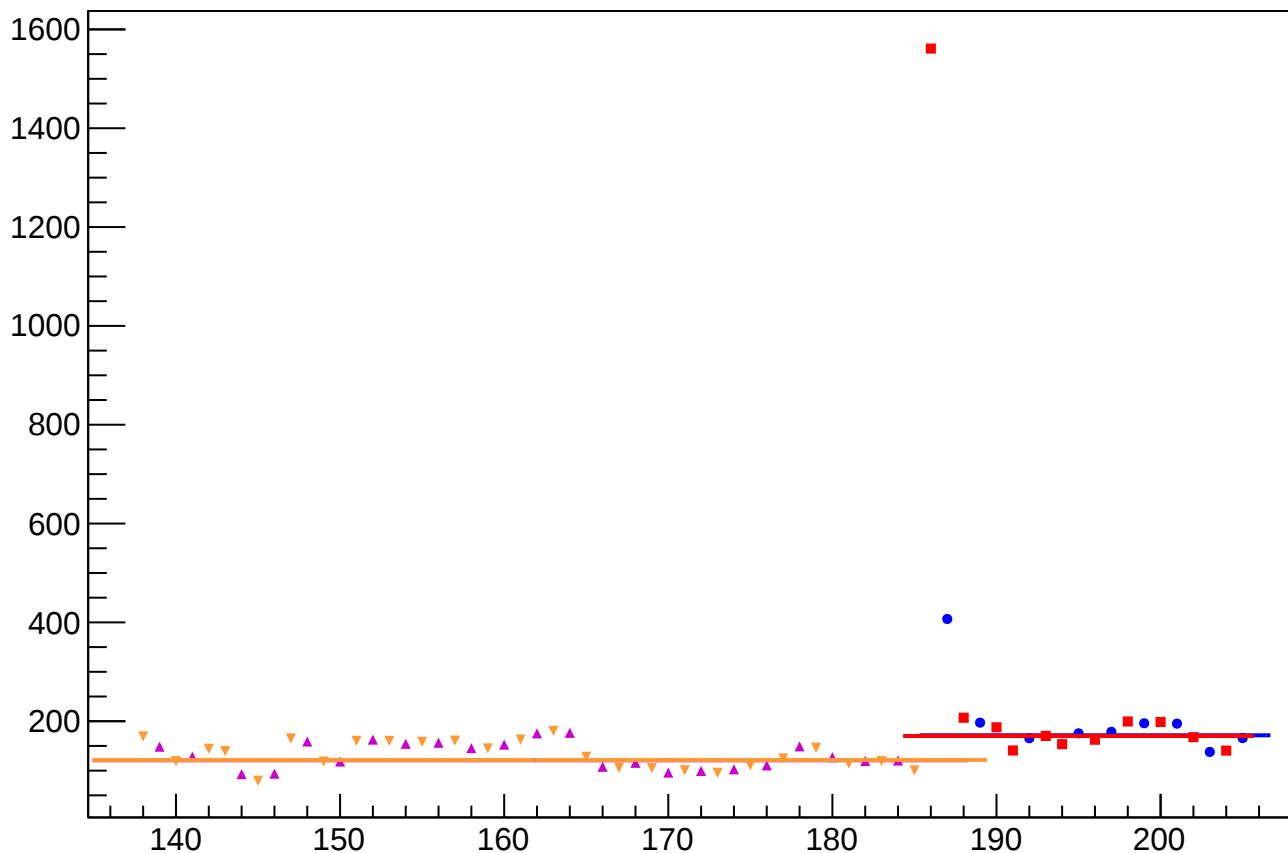
Right: -15.466 ± 47.868 χ^2/NDF : 19.6/19

In: -3.159 ± 27.284 χ^2/NDF : 40.9/31

Out: -63.388 ± 26.632 χ^2/NDF : 48.8/35

All: -34.001 ± 19.058 χ^2/NDF : 92.2/67

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 171.530+/-0.049 χ^2/NDF : 264575.8/8

Left Out: 121.592+/-0.021 χ^2/NDF : 1711423.9/24

Right Out: 170.054+/-0.047 χ^2/NDF : 823562.1/10

Left In: 120.927+/-0.021 χ^2/NDF : 1382861.4/22

Left: 121.266+/-0.015 χ^2/NDF : 3094797.5/47

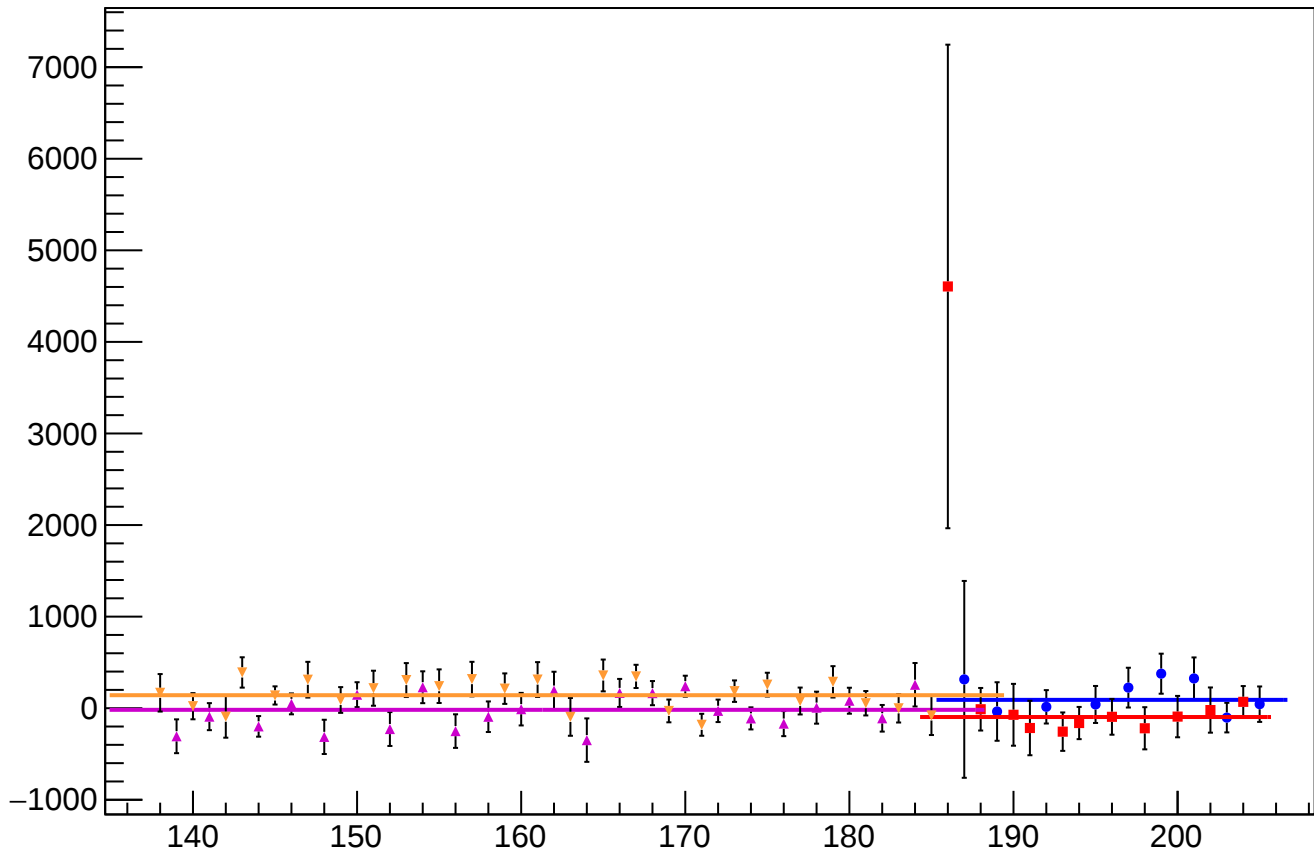
Right: 170.757+/-0.034 χ^2/NDF : 1088612.6/19

In: 128.756+/-0.019 χ^2/NDF : 2547159.5/31

Out: 129.449+/-0.019 χ^2/NDF : 3434607.2/35

All: 129.111+/-0.013 χ^2/NDF : 5982428.5/67

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 91.150+/-72.275 χ^2/NDF : 5.1/8

Left Out: 142.014+/-30.574 χ^2/NDF : 26.9/24

Right Out: -96.245+/-69.253 χ^2/NDF : 5.5/10

Left In: -17.679+/-31.209 χ^2/NDF : 30.1/22

Left: 63.807+/-21.840 χ^2/NDF : 70.4/47

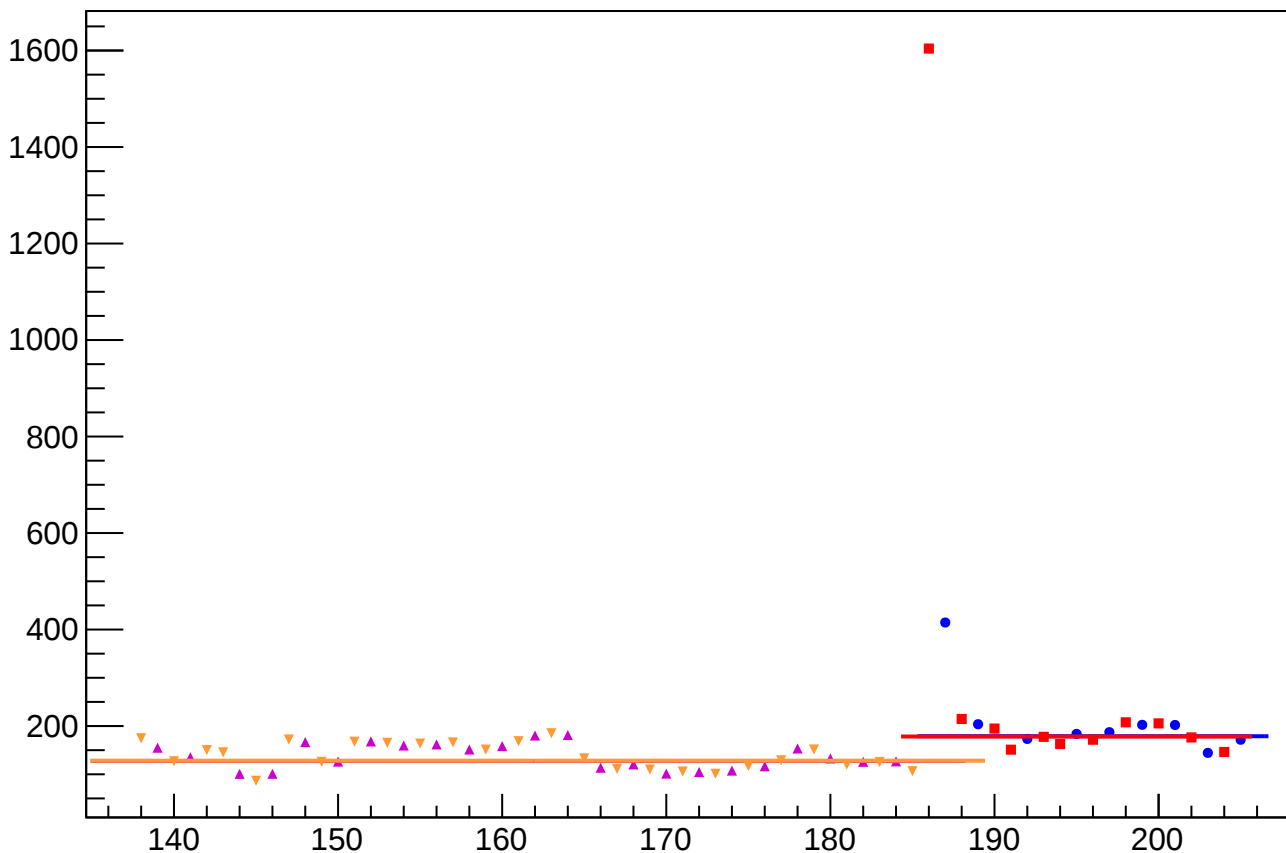
Right: -6.547+/-50.003 χ^2/NDF : 14.1/19

In: -0.576+/-28.652 χ^2/NDF : 37.1/31

Out: 103.150+/-27.970 χ^2/NDF : 42.3/35

All: 52.536+/-20.014 χ^2/NDF : 86.1/67

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 178.878+/-0.051 χ^2/NDF : 252327.2/8

Left Out: 128.175+/-0.022 χ^2/NDF : 1532922.0/24

Right Out: 178.315+/-0.049 χ^2/NDF : 802535.3/10

Left In: 127.544+/-0.022 χ^2/NDF : 1235705.3/22

Left: 127.866+/-0.015 χ^2/NDF : 2769045.1/47

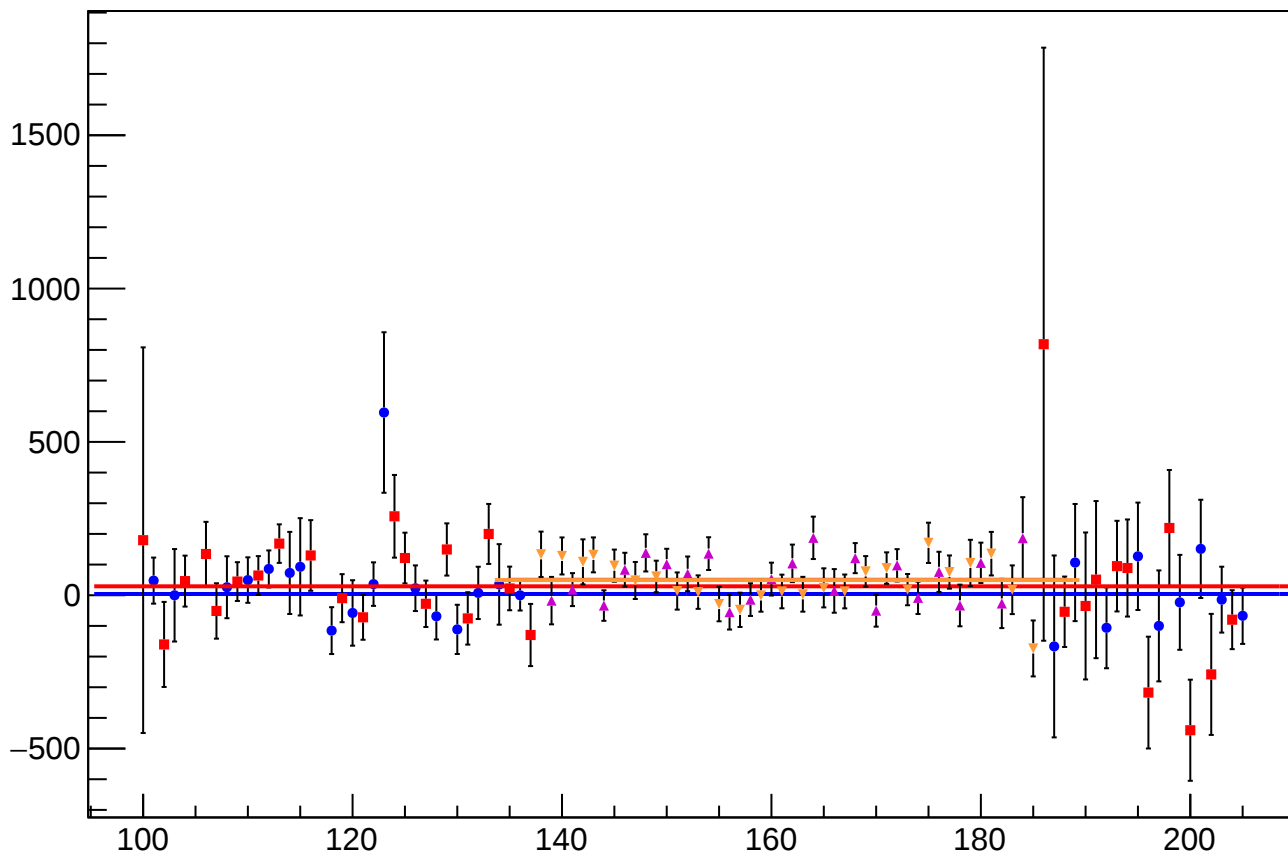
Right: 178.585+/-0.035 χ^2/NDF : 1054925.6/19

In: 135.611+/-0.020 χ^2/NDF : 2338421.4/31

Out: 136.354+/-0.020 χ^2/NDF : 3212848.4/35

All: 135.991+/-0.014 χ^2/NDF : 5551958.2/67

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 4.072 ± 18.570 $\chi^2/\text{NDF}: 18.0/25$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 29.092 ± 18.063 $\chi^2/\text{NDF}: 43.4/29$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

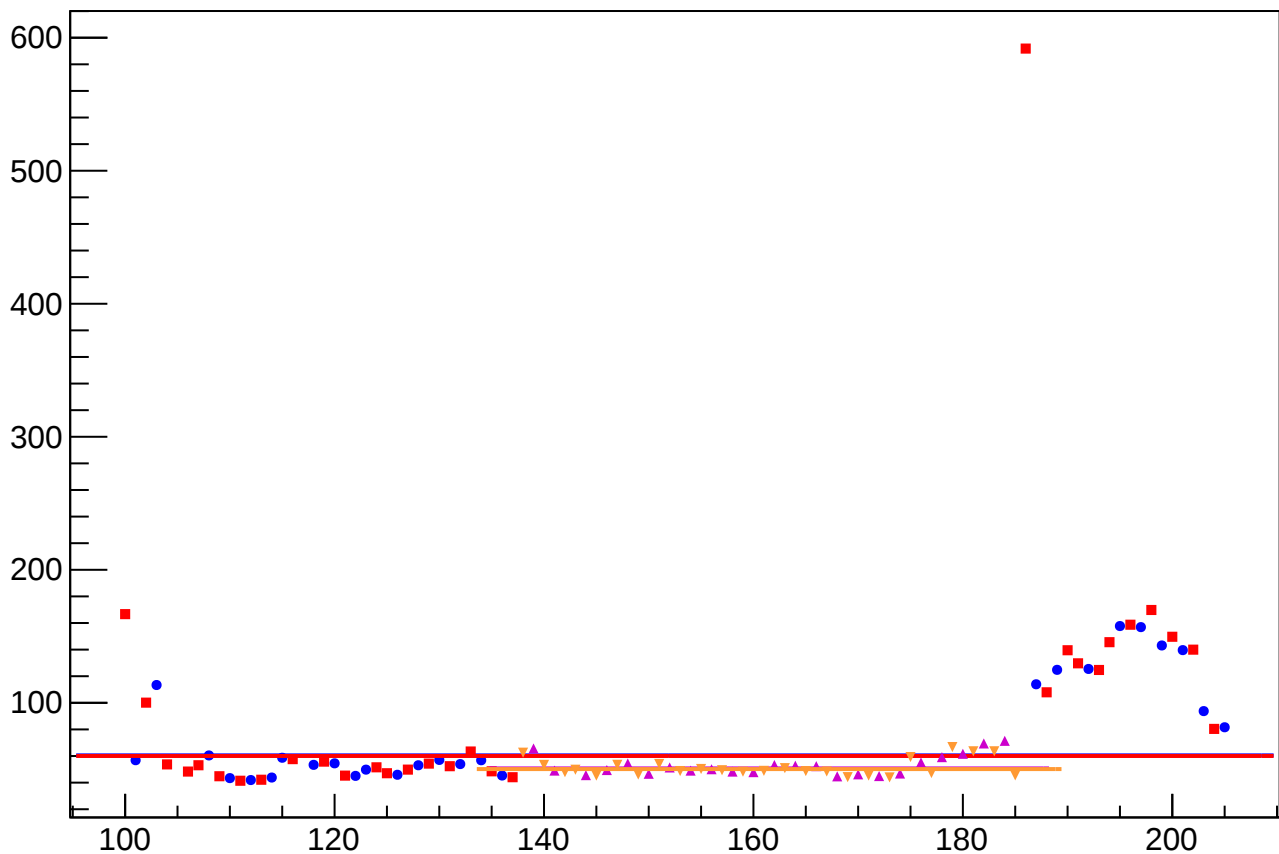
Right: 16.929 ± 12.948 $\chi^2/\text{NDF}: 62.3/55$

In: 36.299 ± 10.228 $\chi^2/\text{NDF}: 54.5/48$

Out: 43.323 ± 9.882 $\chi^2/\text{NDF}: 72.4/54$

All: 39.932 ± 7.107 $\chi^2/\text{NDF}: 127.1/103$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 60.476 $\pm$ 0.013 χ^2 /NDF: 4313258.2/25

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 60.051 $\pm$ 0.013 χ^2 /NDF: 5591261.1/29

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

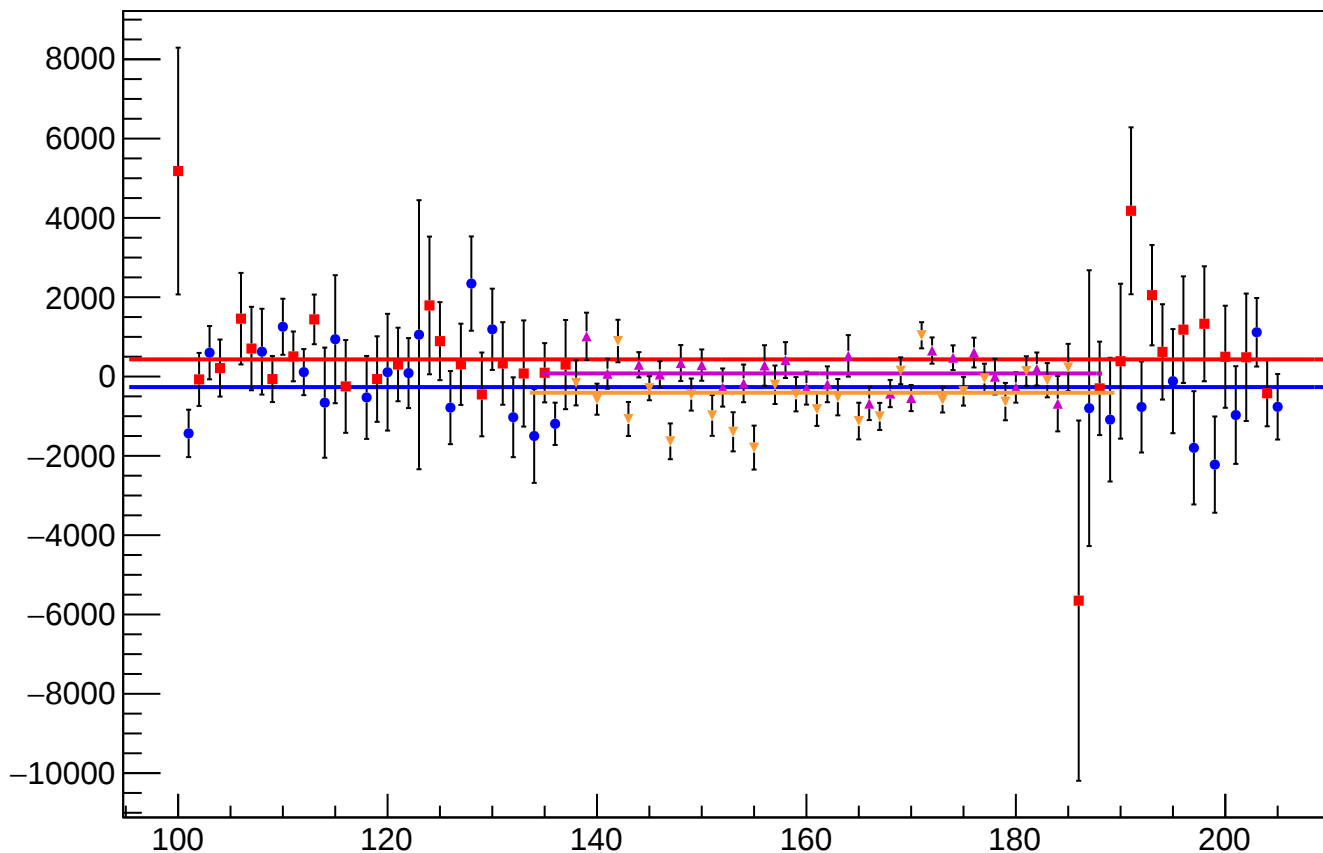
Right: 60.258 $\pm$ 0.009 χ^2 /NDF: 9905056.9/55

In: 53.654 $\pm$ 0.007 χ^2 /NDF: 5170047.2/48

Out: 53.141 $\pm$ 0.007 χ^2 /NDF: 6476703.7/54

All: 53.389 $\pm$ 0.005 χ^2 /NDF: 11649345.5/103

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -266.280+/-185.705 χ^2/NDF : 31.6/25

Left Out: -409.164+/-82.348 χ^2/NDF : 61.7/24

Right Out: 433.016+/-182.414 χ^2/NDF : 18.4/29

Left In: 77.872+/-84.072 χ^2/NDF : 24.8/22

Left: -170.691+/-58.829 χ^2/NDF : 103.6/47

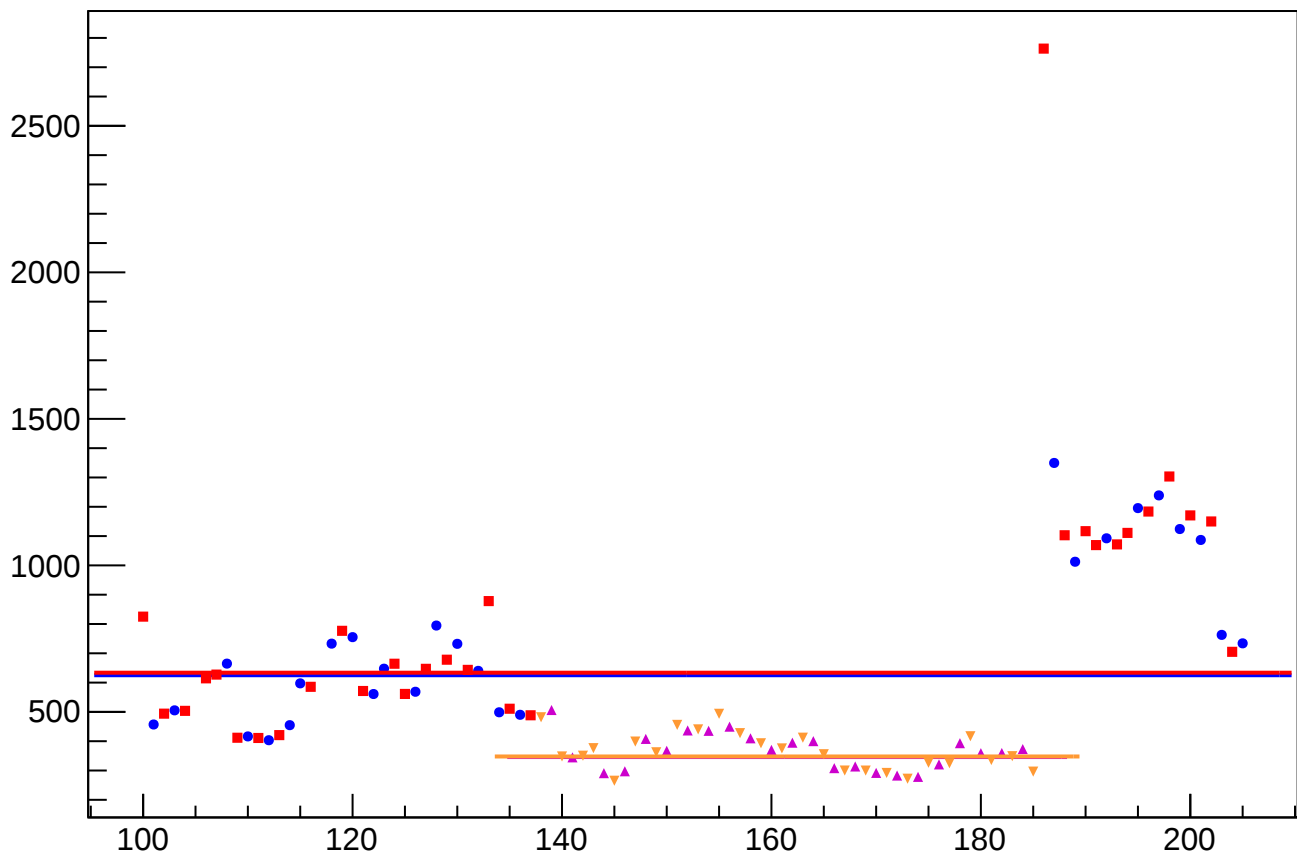
Right: 89.618+/-130.134 χ^2/NDF : 57.2/55

In: 19.334+/-76.589 χ^2/NDF : 59.3/48

Out: -266.589+/-75.055 χ^2/NDF : 97.7/54

All: -126.520+/-53.606 χ^2/NDF : 164.2/103

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 625.170+/-0.131 χ^2/NDF : 2982664.4/25

Left Out: 347.875+/-0.058 χ^2/NDF : 1044096.7/24

Right Out: 633.774+/-0.129 χ^2/NDF : 4003697.1/29

Left In: 345.954+/-0.059 χ^2/NDF : 900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

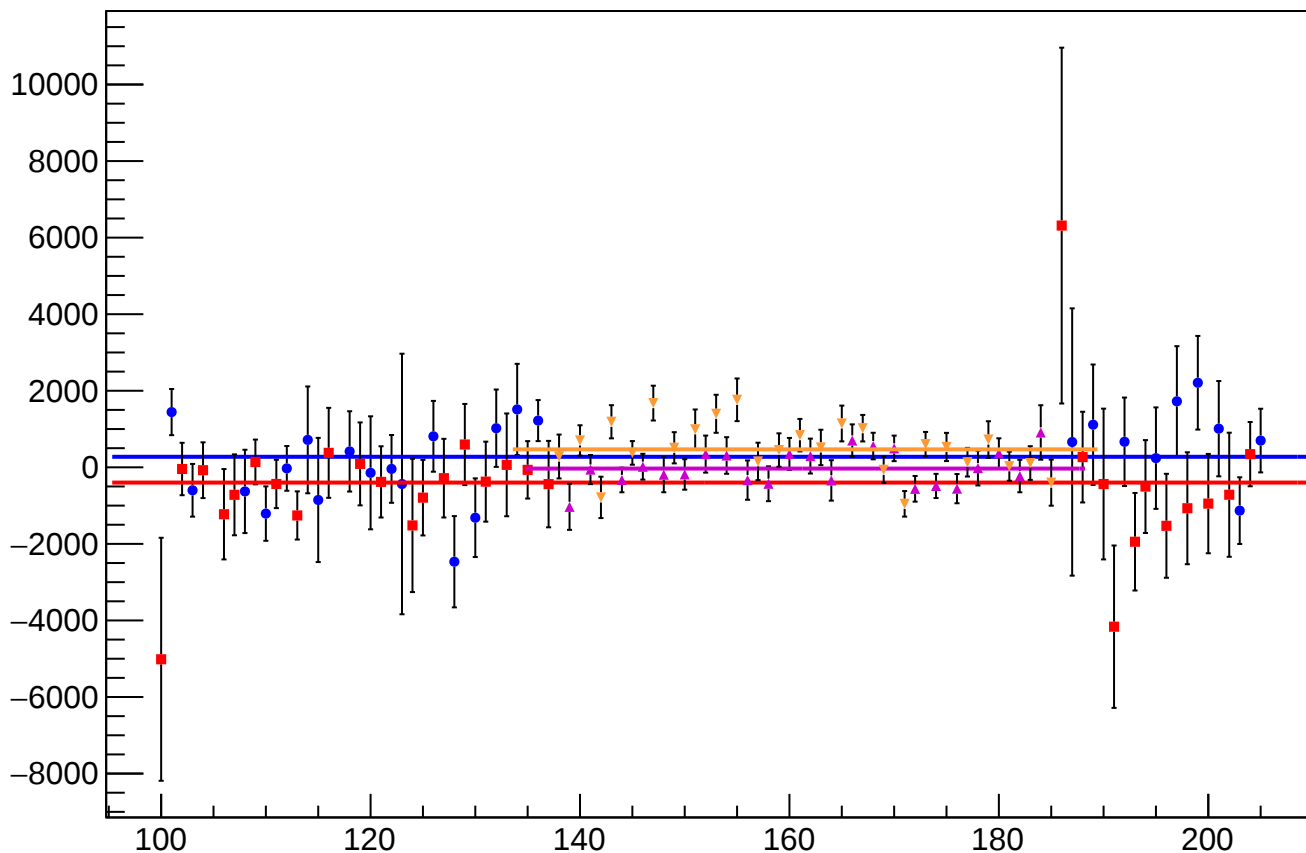
Right: 629.549+/-0.092 χ^2/NDF : 6988546.7/55

In: 393.447+/-0.054 χ^2/NDF : 7635767.9/48

Out: 396.276+/-0.053 χ^2/NDF : 9128970.3/54

All: 394.890+/-0.038 χ^2/NDF : 16766130.2/100

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 275.103 $\pm$ 187.046 χ^2 /NDF: 31.4/25

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -398.387 $\pm$ 183.830 χ^2 /NDF: 17.2/29

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

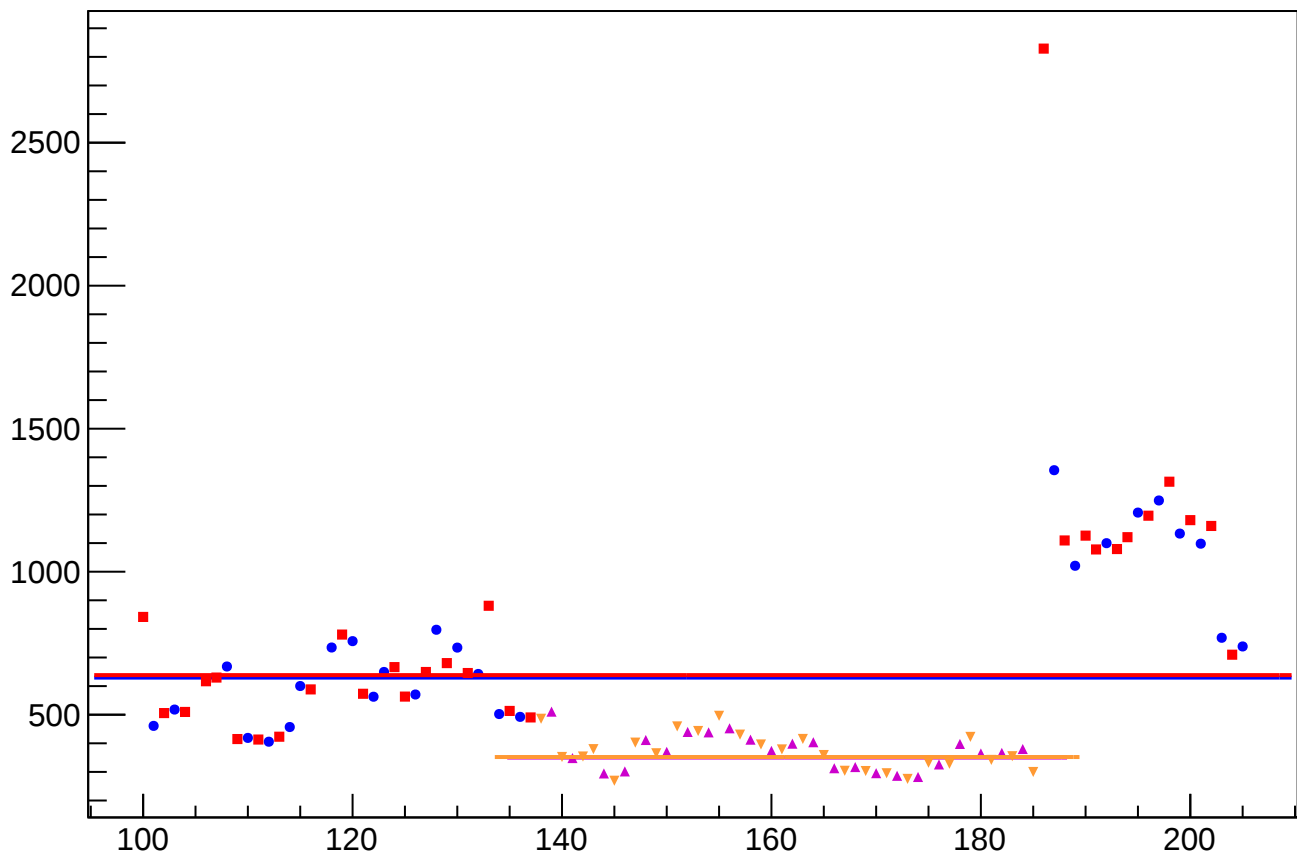
Right: -67.481 $\pm$ 131.110 χ^2 /NDF: 55.3/55

In: 19.966 $\pm$ 77.432 χ^2 /NDF:59.4/48

Out: 321.137 $\pm$ 75.870 χ^2 /NDF:93.2/54

All: 173.620 $\pm$ 54.192 χ^2 /NDF: 160.3/103

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 629.738+/-0.132 χ^2/NDF : 2979719.3/25

Left Out: 352.015+/-0.059 χ^2/NDF : 1017195.6/24

Right Out: 638.408+/-0.130 χ^2/NDF : 4005874.4/29

Left In: 350.160+/-0.060 χ^2/NDF : 878380.0/22

Left: 351.107+/-0.042 χ^2/NDF : 1896060.8/47

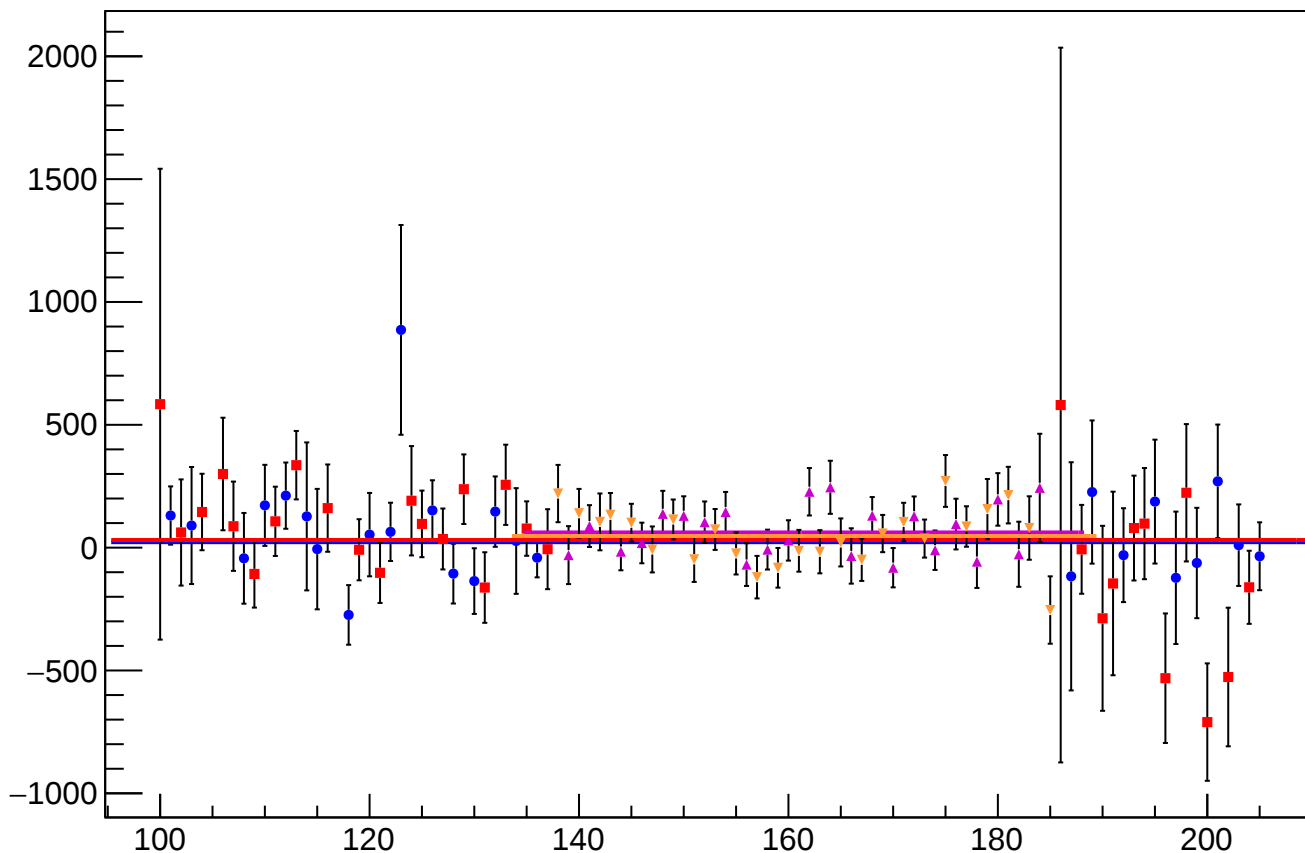
Right: 634.148+/-0.093 χ^2/NDF : 6987779.2/55

In: 398.073+/-0.055 χ^2/NDF : 7560629.3/48

Out: 400.798+/-0.054 χ^2/NDF : 9050465.0/54

All: 399.464+/-0.038 χ^2/NDF : 16612358.1/100

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 22.328 ± 31.098 $\chi^2/\text{NDF}: 22.0/25$

Left Out: 47.426 ± 18.253 $\chi^2/\text{NDF}: 29.4/24$

Right Out: 31.164 ± 31.390 $\chi^2/\text{NDF}: 38.6/29$

Left In: 61.830 ± 18.958 $\chi^2/\text{NDF}: 24.0/22$

Left: 54.355 ± 13.149 $\chi^2/\text{NDF}: 53.7/47$

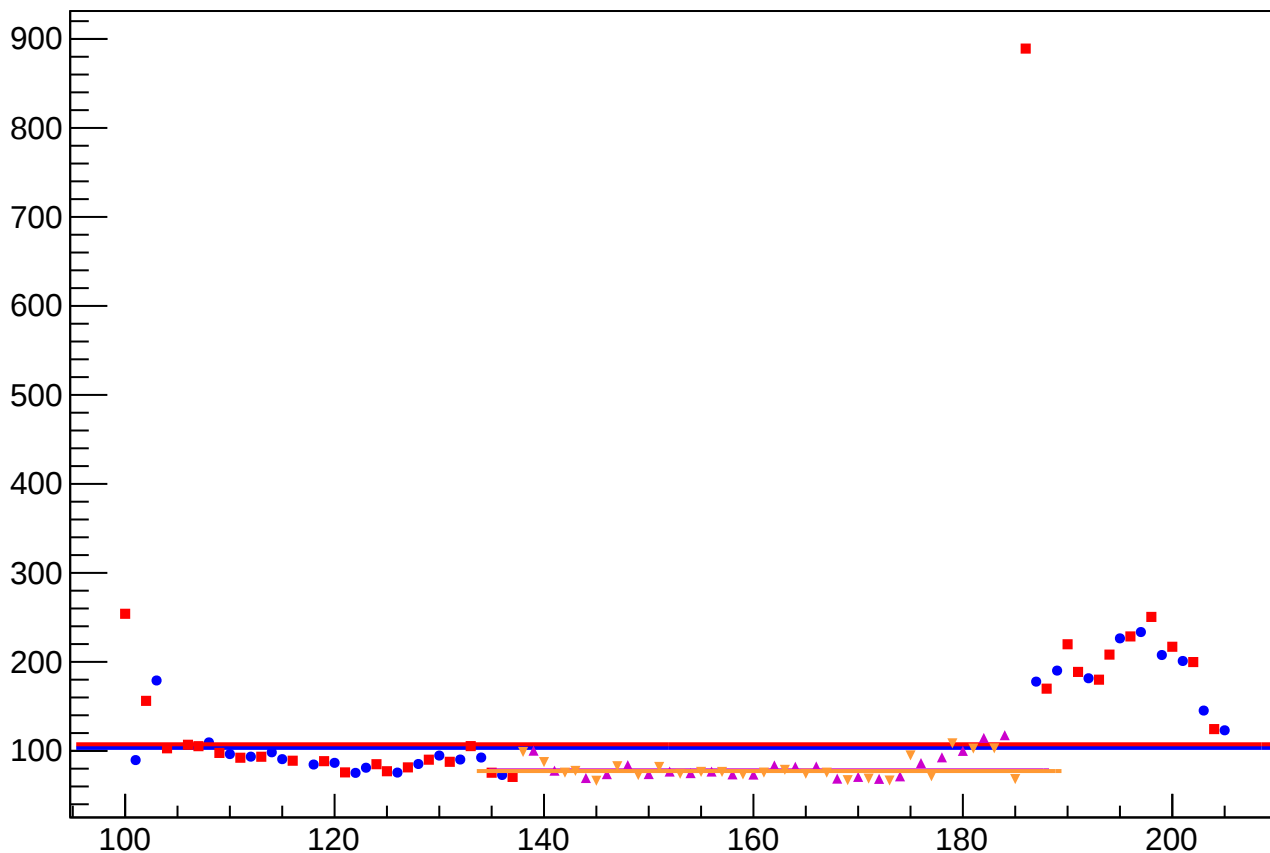
Right: 26.705 ± 22.092 $\chi^2/\text{NDF}: 60.7/55$

In: 51.127 ± 16.187 $\chi^2/\text{NDF}: 47.2/48$

Out: 43.317 ± 15.779 $\chi^2/\text{NDF}: 68.2/54$

All: 47.122 ± 11.299 $\chi^2/\text{NDF}: 115.5/103$

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 103.375+/-0.022 χ^2/NDF : 3367461.6/25

Left Out: 77.316+/-0.013 χ^2/NDF : 635622.3/24

Right Out: 107.408+/-0.022 χ^2/NDF : 4274422.3/29

Left In: 78.139+/-0.013 χ^2/NDF : 582108.1/22

Left: 77.712+/-0.009 χ^2/NDF : 1219684.1/47

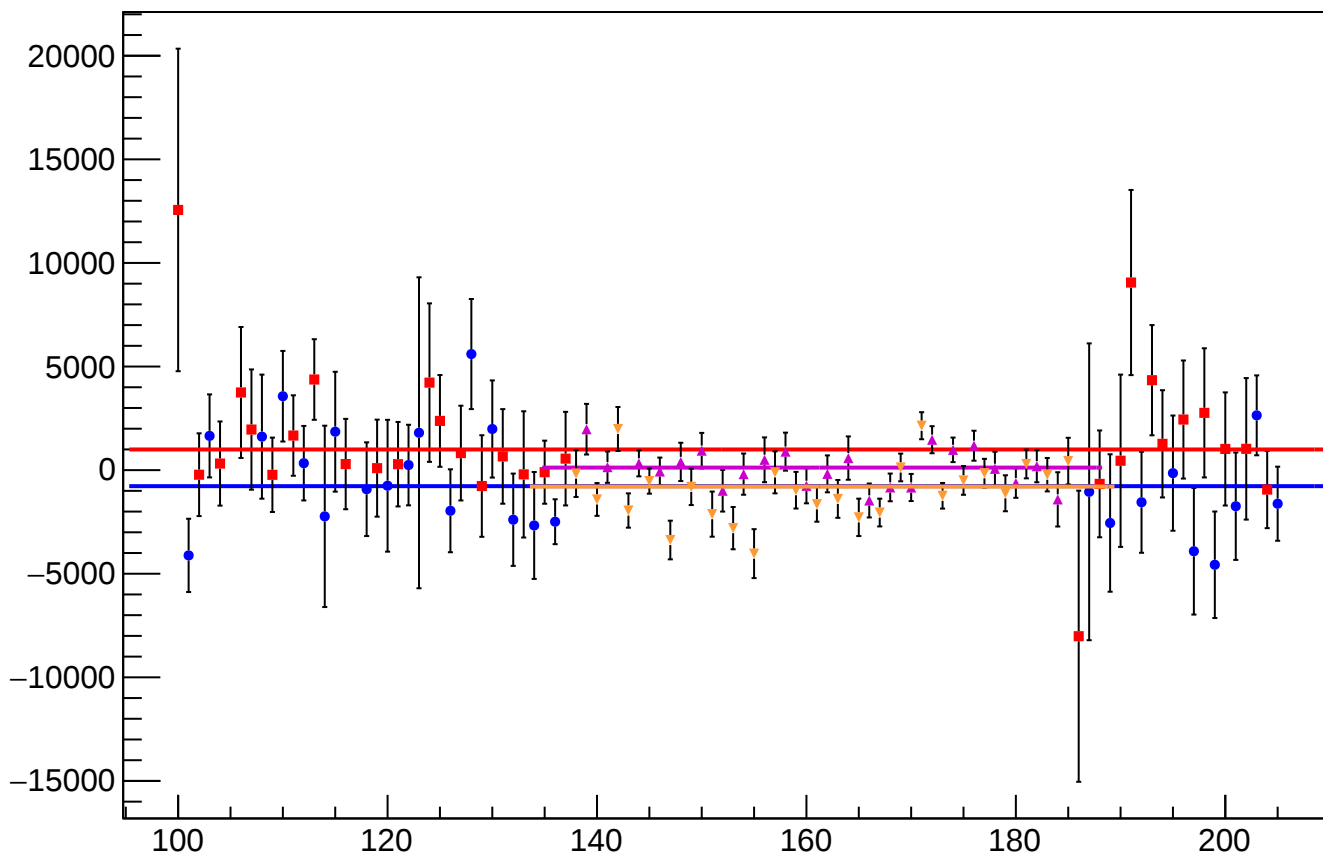
Right: 105.373+/-0.016 χ^2/NDF : 7658549.4/55

In: 84.976+/-0.011 χ^2/NDF : 4909794.3/48

Out: 84.920+/-0.011 χ^2/NDF : 6283630.1/54

All: 84.947+/-0.008 χ^2/NDF : 11193436.7/103

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -773.250+/-441.917 χ^2/NDF : 29.6/25

Left Out: -792.776+/-162.659 χ^2/NDF : 66.6/24

Right Out: 997.335+/-444.434 χ^2/NDF : 18.5/29

Left In: 122.198+/-166.193 χ^2/NDF : 25.9/22

Left: -345.122+/-116.247 χ^2/NDF : 108.0/47

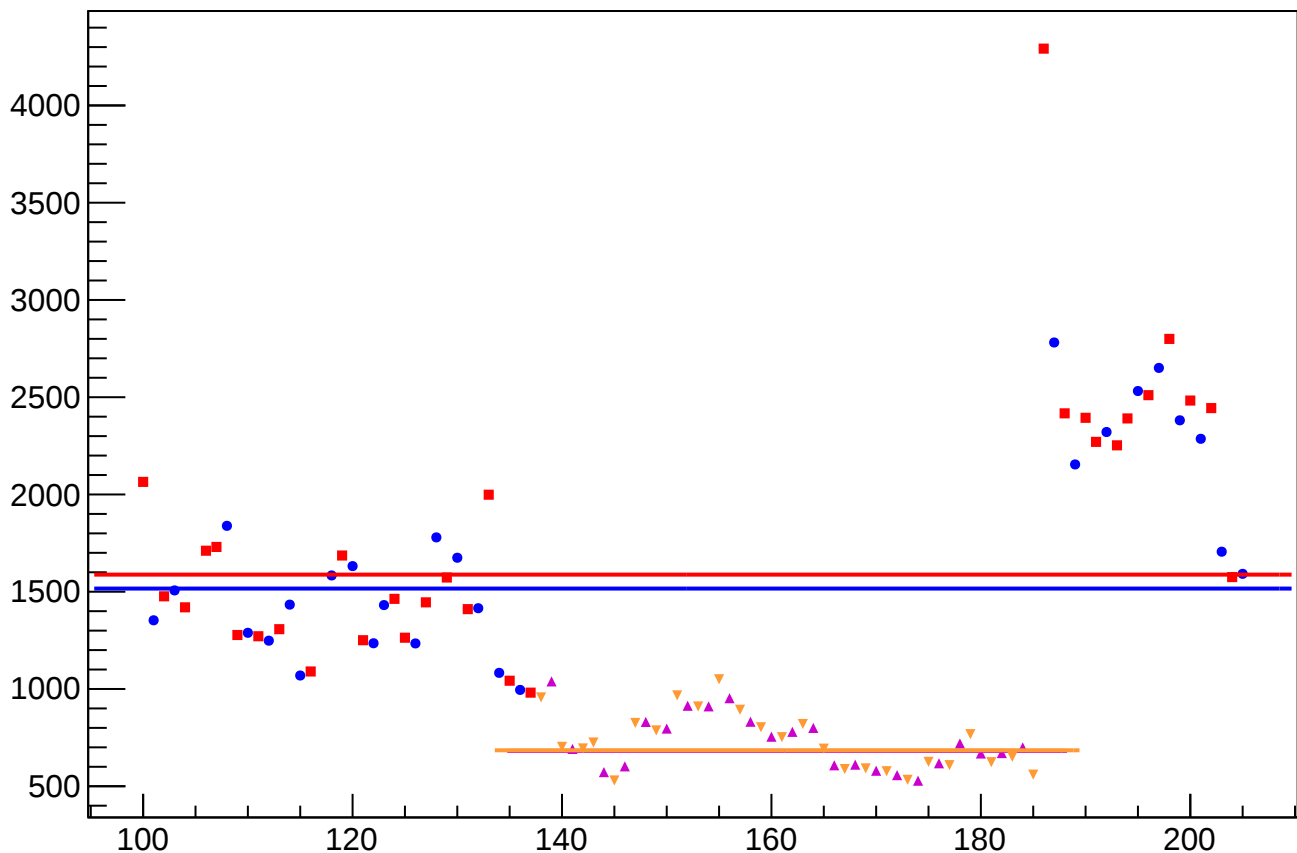
Right: 107.014+/-313.368 χ^2/NDF : 56.0/55

In: 11.245+/-155.557 χ^2/NDF : 59.1/48

Out: -581.316+/-152.750 χ^2/NDF : 99.4/54

All: -290.430+/-108.989 χ^2/NDF : 165.9/103

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1516.231 $\pm$ 0.312 χ^2/NDF : 2114603.5/25

Left Out: 684.785 $\pm$ 0.115 χ^2/NDF : 1280146.2/24

Right Out: 1587.924 $\pm$ 0.314 χ^2/NDF : 2650238.6/29

Left In: 681.712 $\pm$ 0.118 χ^2/NDF : 1119637.0/22

Left: 683.282 $\pm$ 0.082 χ^2/NDF : 2400132.5/47

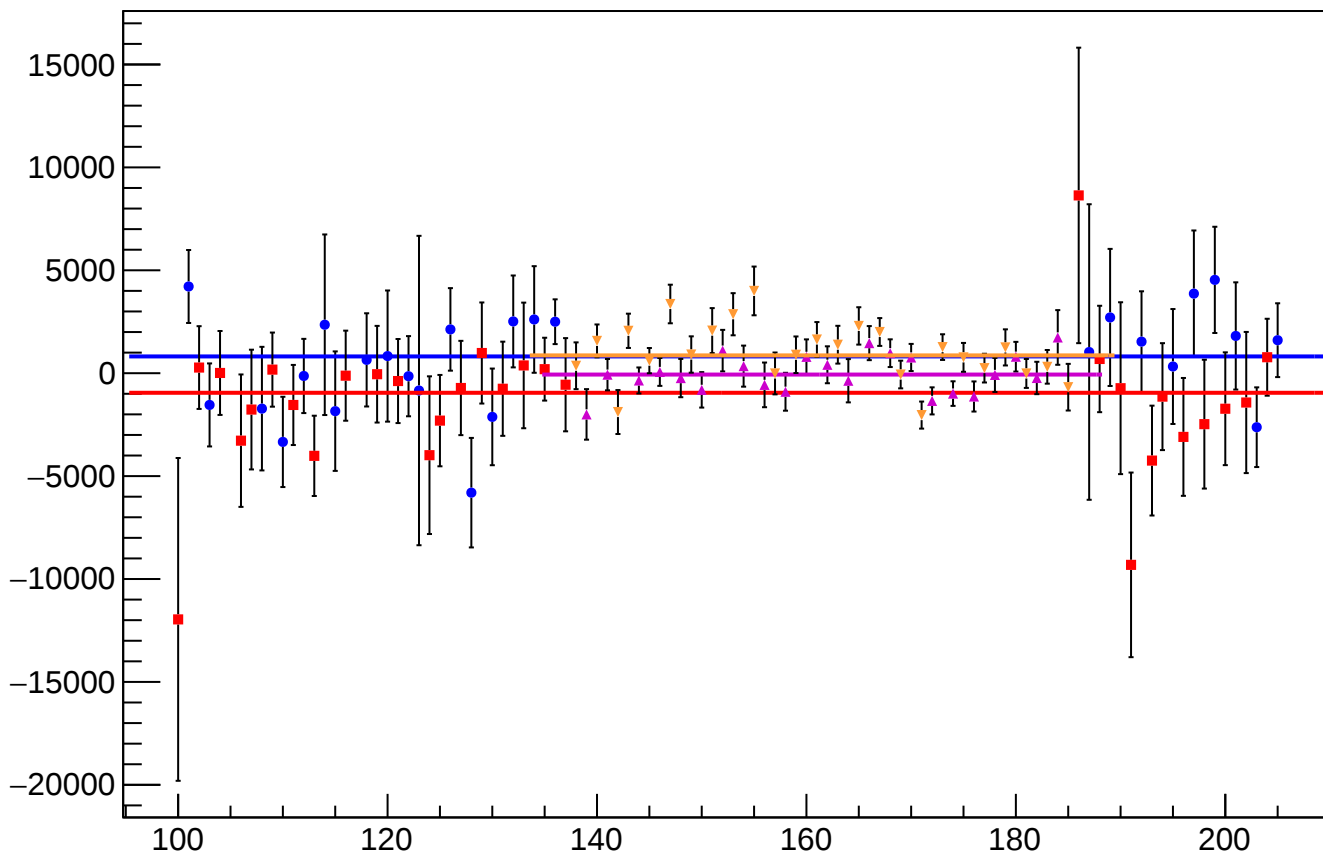
Right: 1551.874 $\pm$ 0.222 χ^2/NDF : 4791011.6/55

In: 785.115 $\pm$ 0.110 χ^2/NDF : 9482687.8/48

Out: 791.470 $\pm$ 0.108 χ^2/NDF : 11213743.2/54

All: 788.350 $\pm$ 0.077 χ^2/NDF : 20698130.1/10

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 814.912 ± 443.293 $\chi^2/\text{NDF}: 29.5/25$

Left Out: 865.597 ± 163.885 $\chi^2/\text{NDF}: 62.8/24$

Right Out: -951.397 ± 445.989 $\chi^2/\text{NDF}: 17.9/29$

Left In: -65.924 ± 167.485 $\chi^2/\text{NDF}: 26.4/22$

Left: 409.953 ± 117.136 $\chi^2/\text{NDF}: 105.1/47$

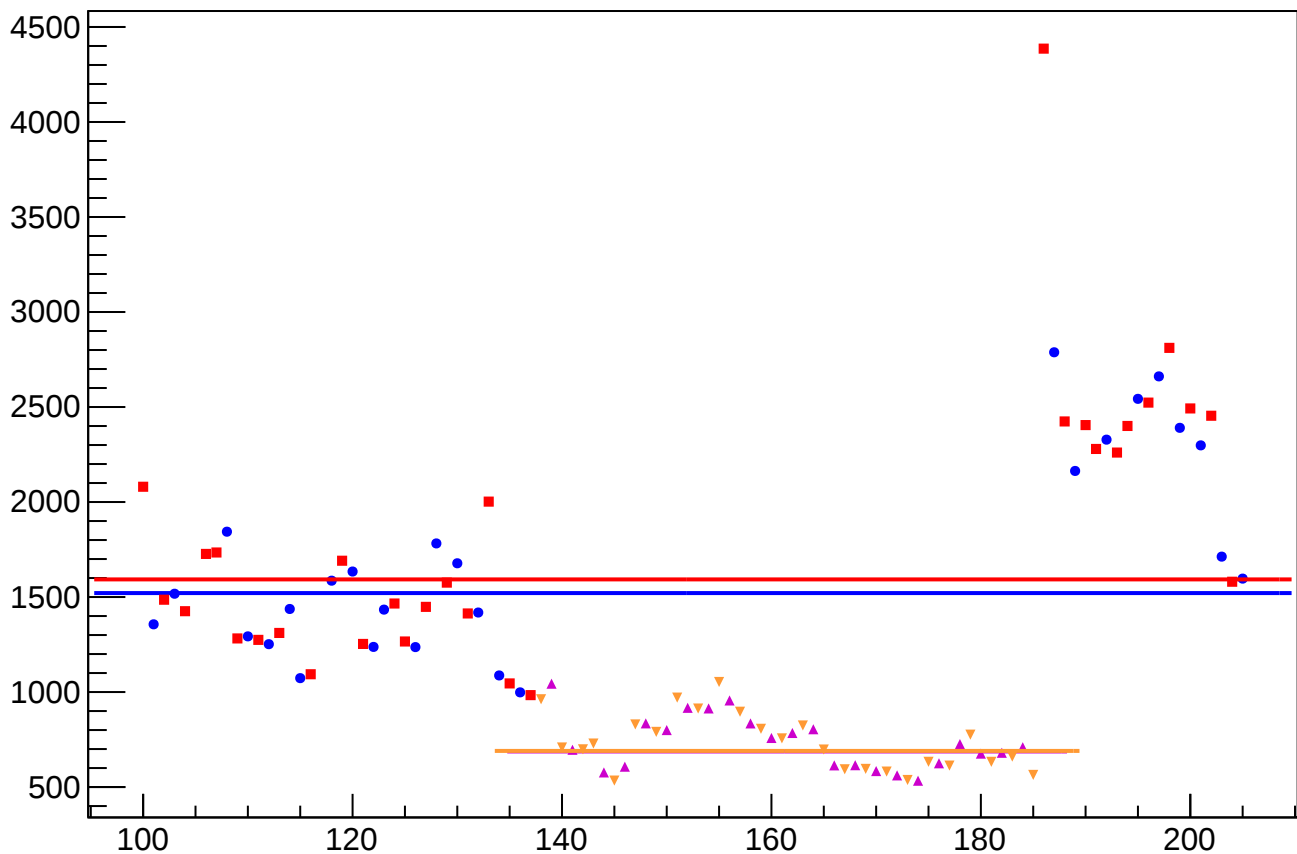
Right: -62.889 ± 314.404 $\chi^2/\text{NDF}: 55.3/55$

In: 44.106 ± 156.675 $\chi^2/\text{NDF}: 59.4/48$

Out: 649.435 ± 153.828 $\chi^2/\text{NDF}: 95.3/54$

All: 352.320 ± 109.766 $\chi^2/\text{NDF}: 162.3/103$

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1520.824+/-0.313 χ^2/NDF : 2119046.4/25

Left Out: 690.166+/-0.116 χ^2/NDF : 1258158.2/24

Right Out: 1592.786+/-0.315 χ^2/NDF : 2662912.1/29

Left In: 687.216+/-0.118 χ^2/NDF : 1099706.1/22

Left: 688.723+/-0.083 χ^2/NDF : 2358181.3/47

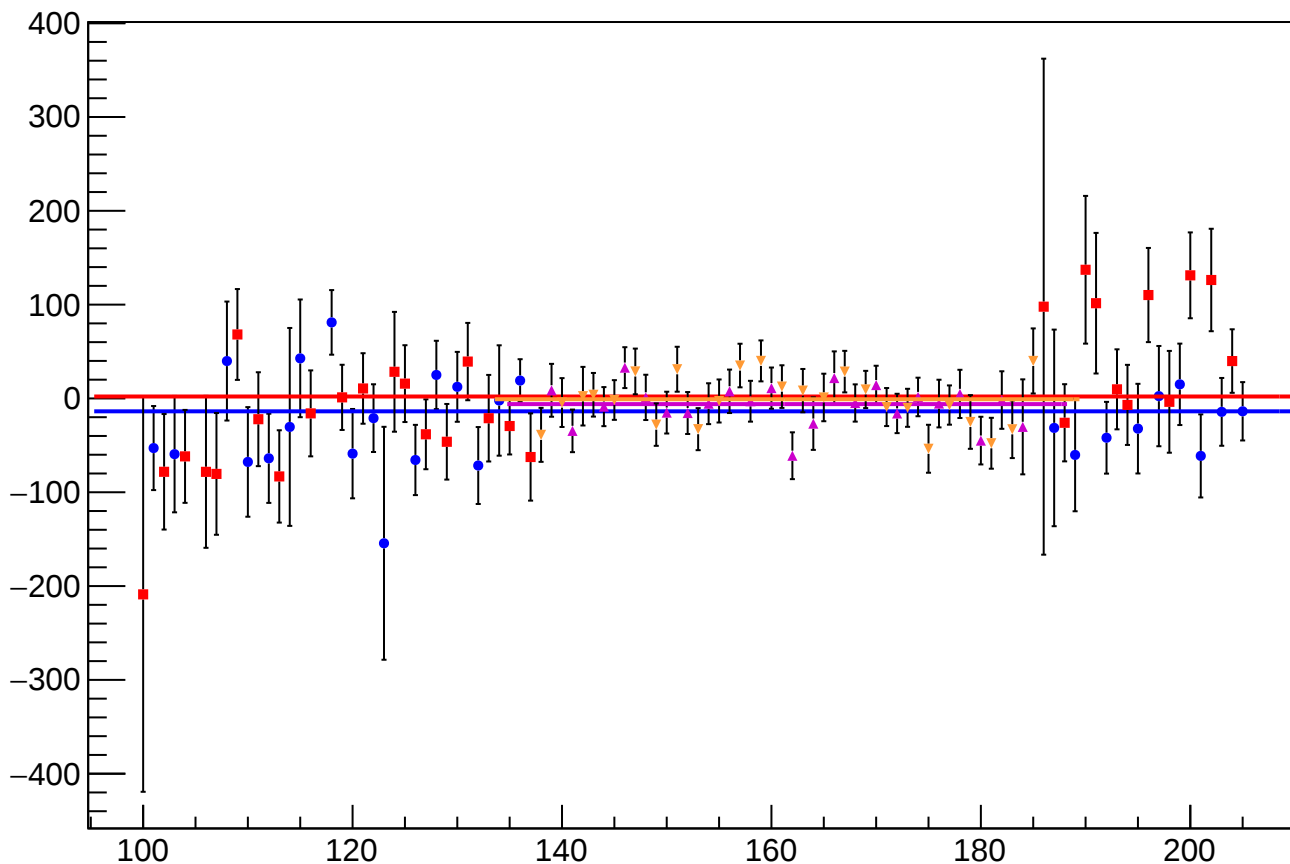
Right: 1556.587+/-0.222 χ^2/NDF : 4808151.4/55

In: 791.347+/-0.111 χ^2/NDF : 9407765.2/48

Out: 797.548+/-0.109 χ^2/NDF : 11138526.0/54

All: 794.504+/-0.078 χ^2/NDF : 20547886.2/100

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -13.732 ± 8.486 χ^2/NDF : 25.3/25

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 2.072 ± 8.579 χ^2/NDF : 43.6/29

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

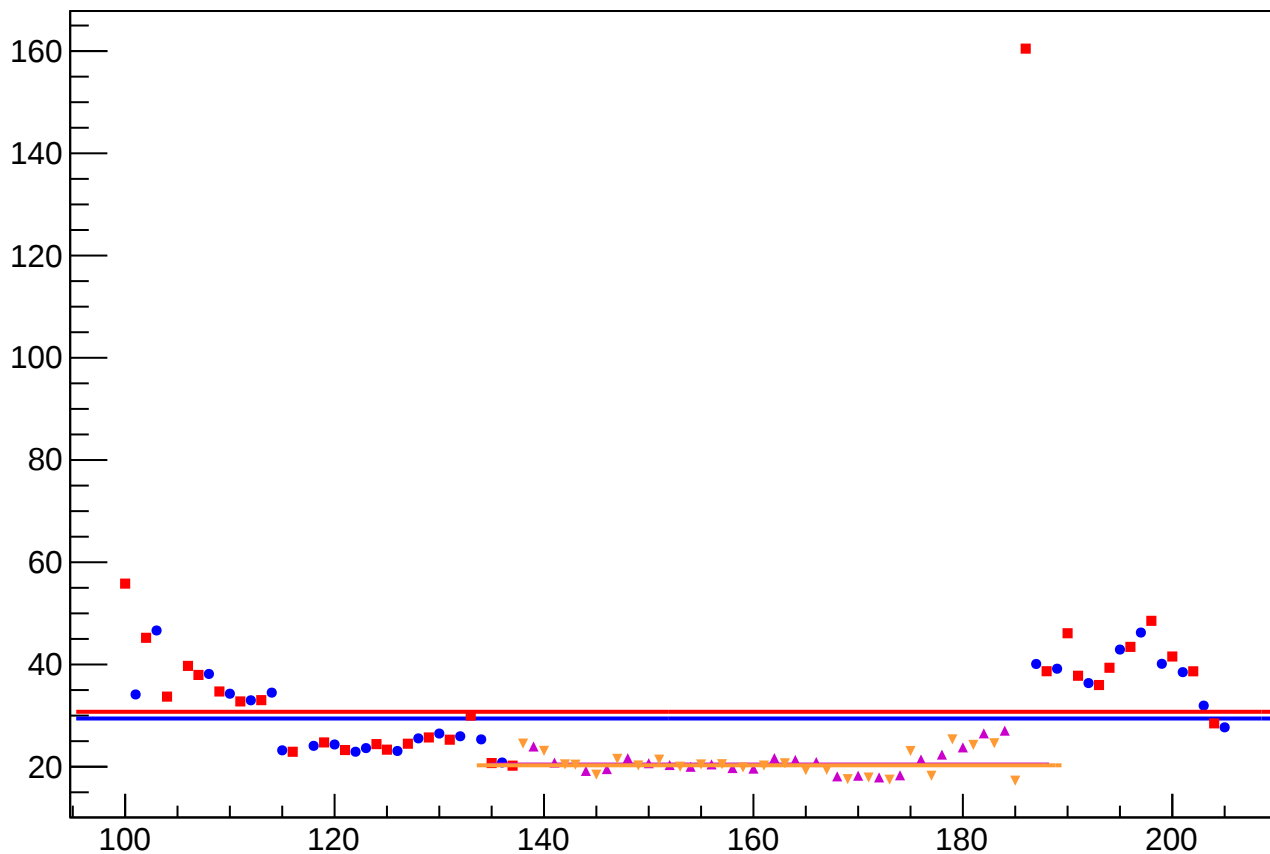
Right: -5.916 ± 6.033 χ^2/NDF : 70.6/55

In: -7.980 ± 4.260 χ^2/NDF : 42.8/48

Out: -0.171 ± 4.162 χ^2/NDF : 71.6/54

All: -3.985 ± 2.977 χ^2/NDF : 116.2/103

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 29.432 $\pm$ 0.006 χ^2 /NDF: 1524076.0/25

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 30.750 $\pm$ 0.006 χ^2 /NDF: 2210672.2/29

Left In: 20.424 $\pm$ 0.003 χ^2 /NDF: 323427.4/22

Left: 20.349 $\pm$ 0.002 χ^2 /NDF: 731373.7/47

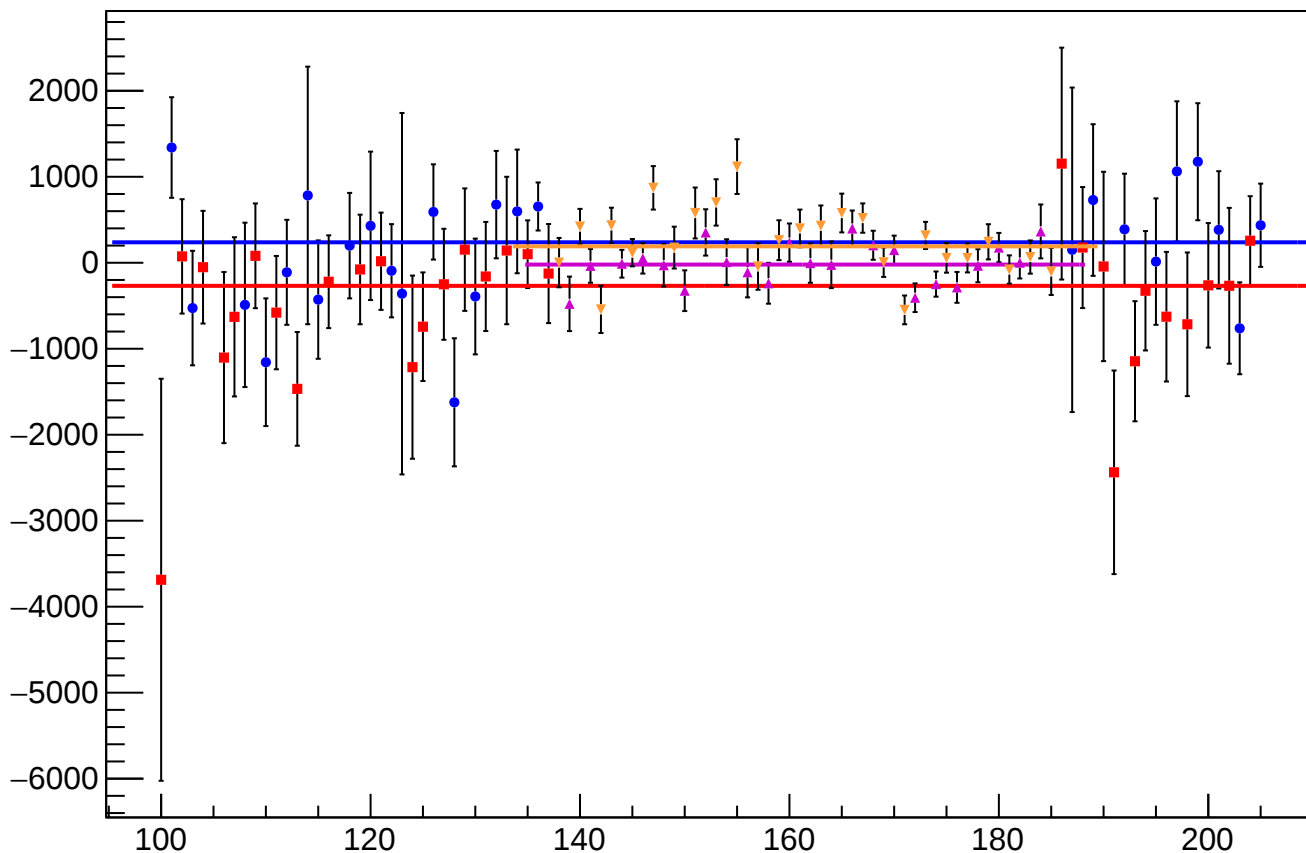
Right: 30.084 $\pm$ 0.004 χ^2 /NDF: 3758630.5/55

In: 22.694 $\pm$ 0.003 χ^2 /NDF: 3533170.1/48

Out: 22.744 $\pm$ 0.003 χ^2 /NDF: 4895810.4/54

All: 22.719 $\pm$ 0.002 χ^2 /NDF: 8429125.5/103

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 237.892 $\pm$ 124.111 χ^2 /NDF: 28.5/25

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -268.548 $\pm$ 126.379 χ^2 /NDF: 18.5/29

Left In: -20.998 $\pm$ 42.291 χ^2 /NDF: 27.7/22

Left: 87.410 $\pm$ 29.553 χ^2 /NDF: 108.4/47

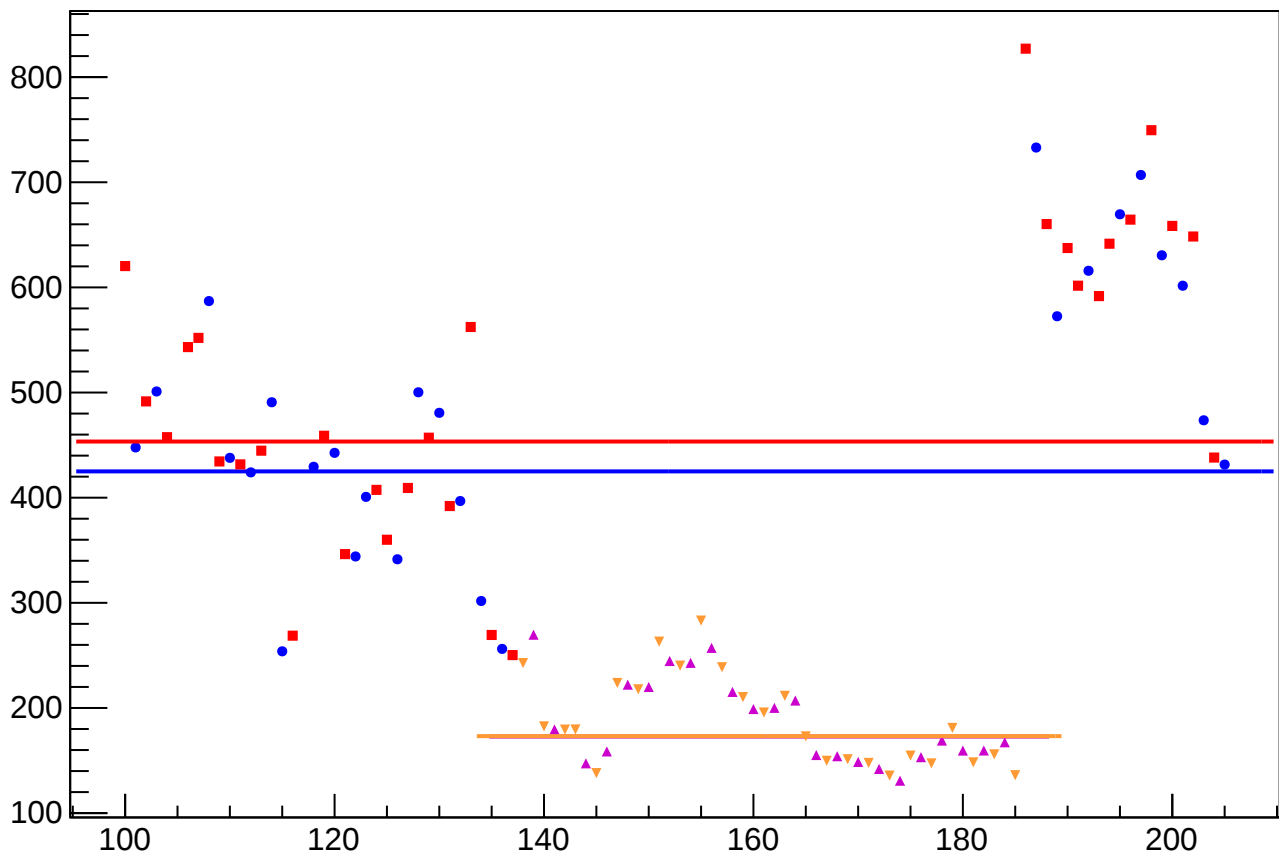
Right: -10.743 $\pm$ 88.551 χ^2 /NDF: 55.1/55

In: 5.934 $\pm$ 40.031 χ^2 /NDF: 60.1/48

Out: 146.511 $\pm$ 39.269 χ^2 /NDF: 98.3/54

All: 77.573 $\pm$ 28.033 χ^2 /NDF: 164.7/103

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 425.012 $\pm$ 0.088 χ^2 /NDF: 2209810.2/25

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 453.399 $\pm$ 0.089 χ^2 /NDF: 2462115.2/29

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

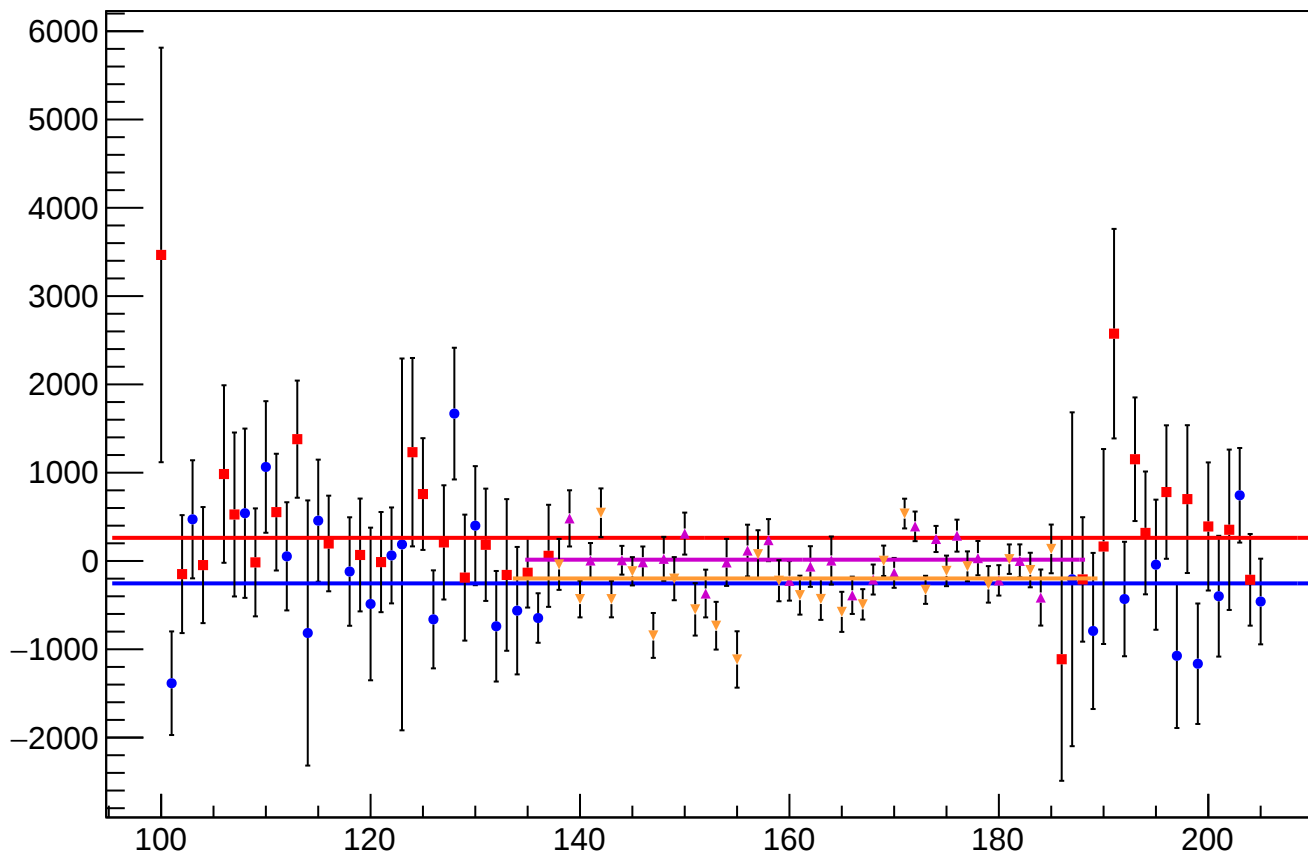
Right: 438.949 $\pm$ 0.063 χ^2 /NDF: 4723294.1/55

In: 199.063 $\pm$ 0.028 χ^2 /NDF:10980339.3/48

Out: 200.262 $\pm$ 0.028 χ^2 /NDF:12904885.5/54

All: 199.674 $\pm$ 0.020 χ^2 /NDF: 23886139.3/10

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -253.749 ± 124.449 $\chi^2/\text{NDF}: 28.5/25$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 262.073 ± 126.749 $\chi^2/\text{NDF}: 18.4/29$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

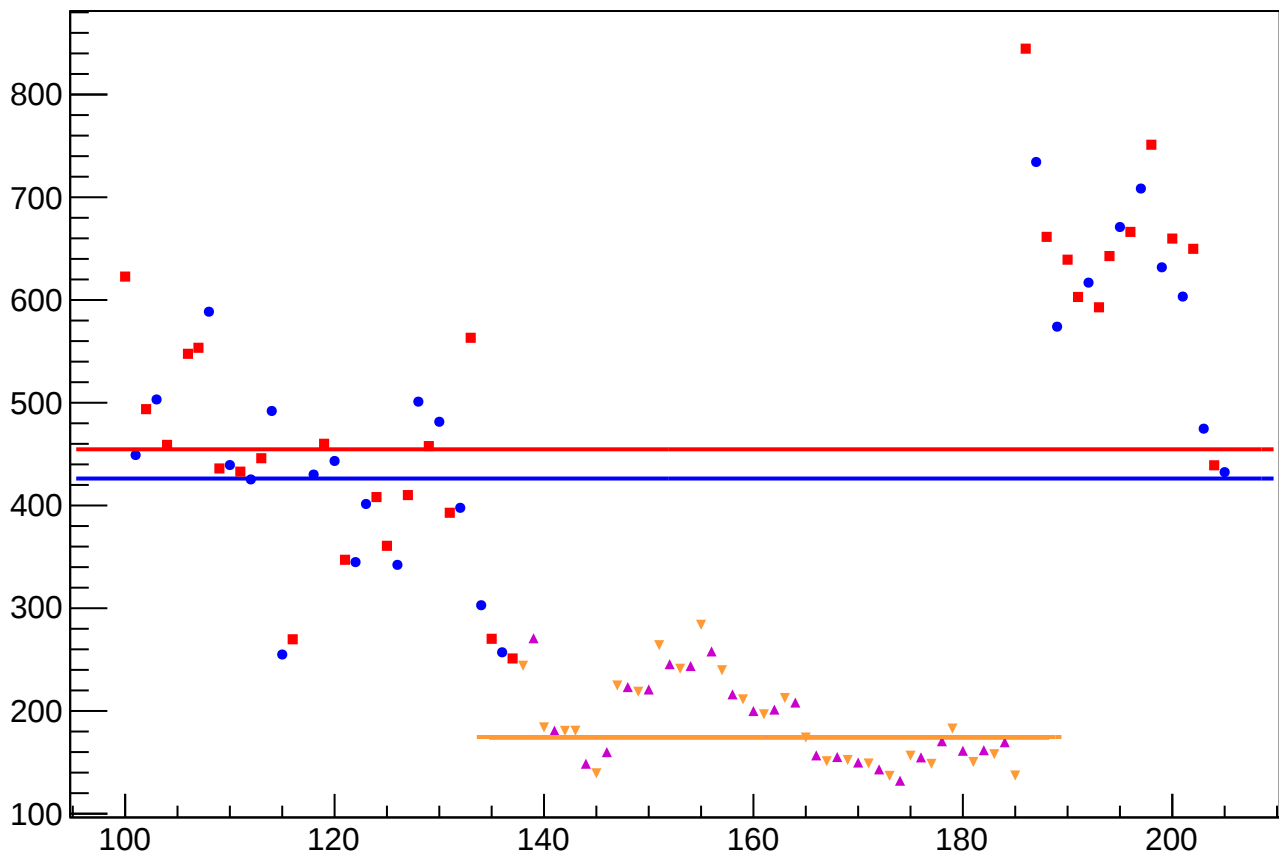
Right: -0.559 ± 88.801 $\chi^2/\text{NDF}: 55.3/55$

In: -13.567 ± 40.329 $\chi^2/\text{NDF}: 60.4/48$

Out: -153.112 ± 39.558 $\chi^2/\text{NDF}: 94.5/54$

All: -84.685 ± 28.240 $\chi^2/\text{NDF}: 161.0/103$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 426.233+/-0.088 χ^2/NDF : 2203683.8/25

Left Out: 174.648+/-0.029 χ^2/NDF :1531999.5/24

Right Out: 454.679+/-0.090 χ^2/NDF : 2465271.5/29

Left In: 174.288+/-0.030 χ^2/NDF :1344779.5/22

Left: 174.472+/-0.021 χ^2/NDF : 2876851.9/47

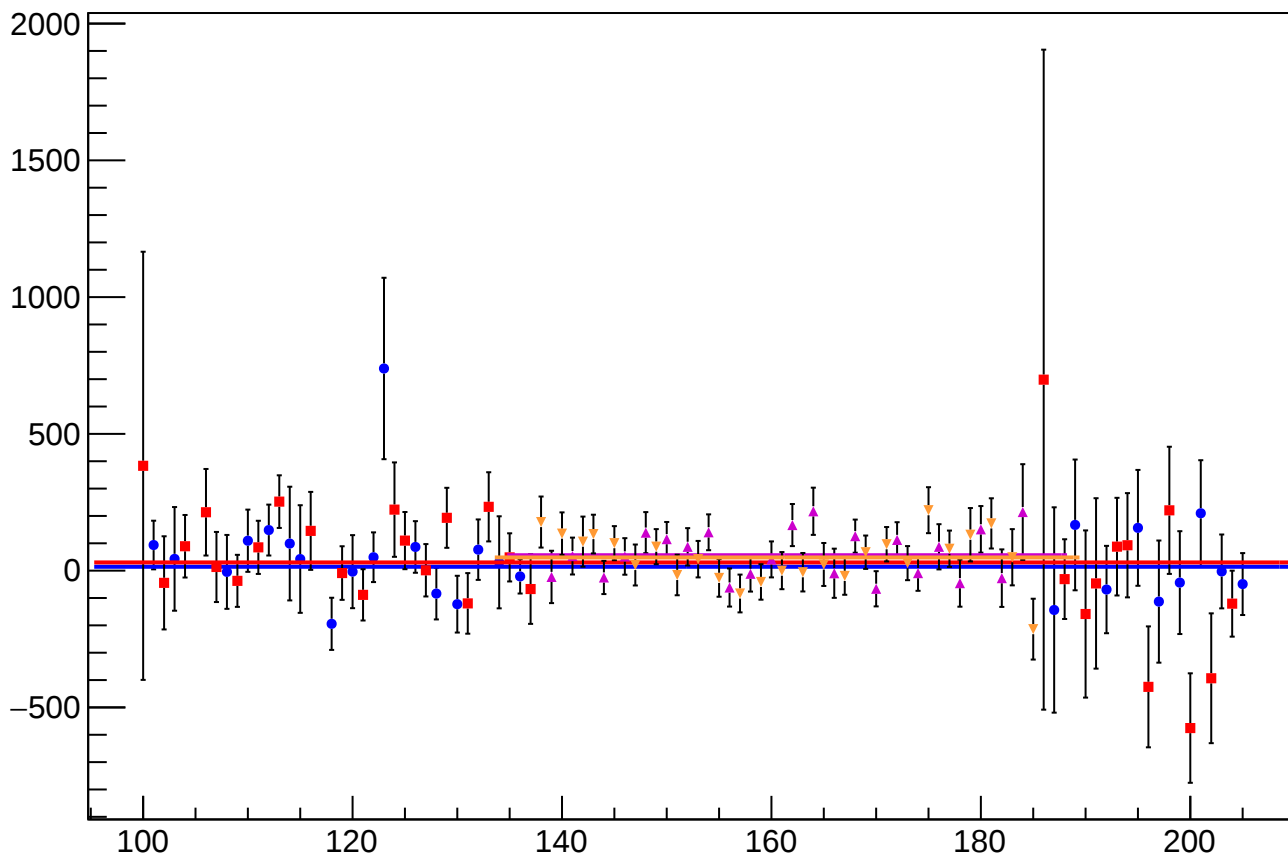
Right: 440.196+/-0.063 χ^2/NDF : 4720246.6/55

In: 200.746+/-0.029 χ^2/NDF :10884657.3/48

Out: 201.925+/-0.028 χ^2/NDF :12808751.9/54

All: 201.347+/-0.020 χ^2/NDF : 23694280.0/10

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 14.200 $\pm$ 24.033 χ^2 /NDF: 20.7/25

Left Out: 48.233 $\pm$ 14.616 χ^2 /NDF:29.3/24

Right Out: 30.064 $\pm$ 24.005 χ^2 /NDF: 39.7/29

Left In: 56.403 $\pm$ 15.182 χ^2 /NDF:27.5/22

Left: 52.163 $\pm$ 10.529 χ^2 /NDF: 56.9/47

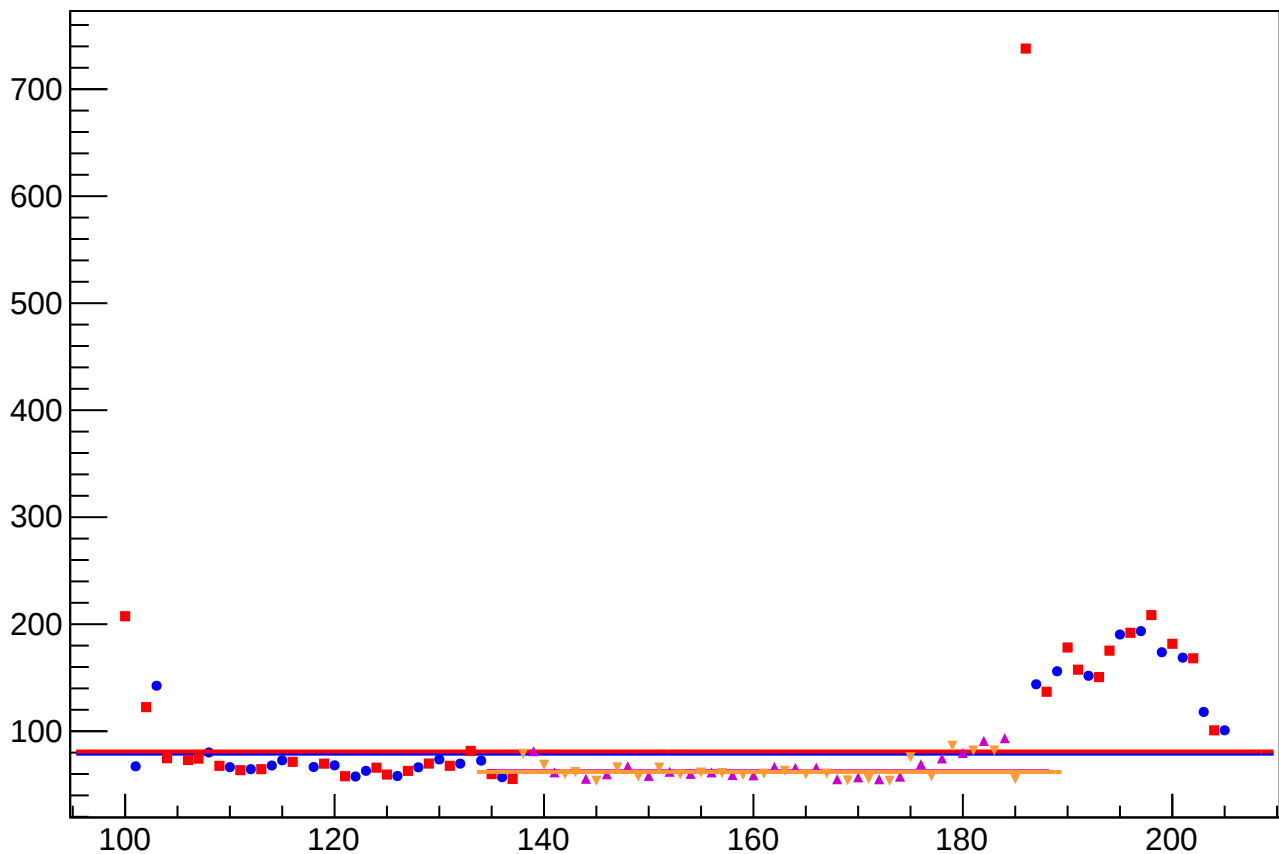
Right: 22.142 $\pm$ 16.984 χ^2 /NDF: 60.6/55

In: 44.366 $\pm$ 12.835 χ^2 /NDF:50.3/48

Out: 43.319 $\pm$ 12.484 χ^2 /NDF:69.4/54

All: 43.828 $\pm$ 8.949 χ^2 /NDF: 119.7/103

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 79.022+/-0.017 χ^2/NDF : 3848171.7/25

Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24

Right Out: 81.037+/-0.017 χ^2/NDF : 4863466.7/29

Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47

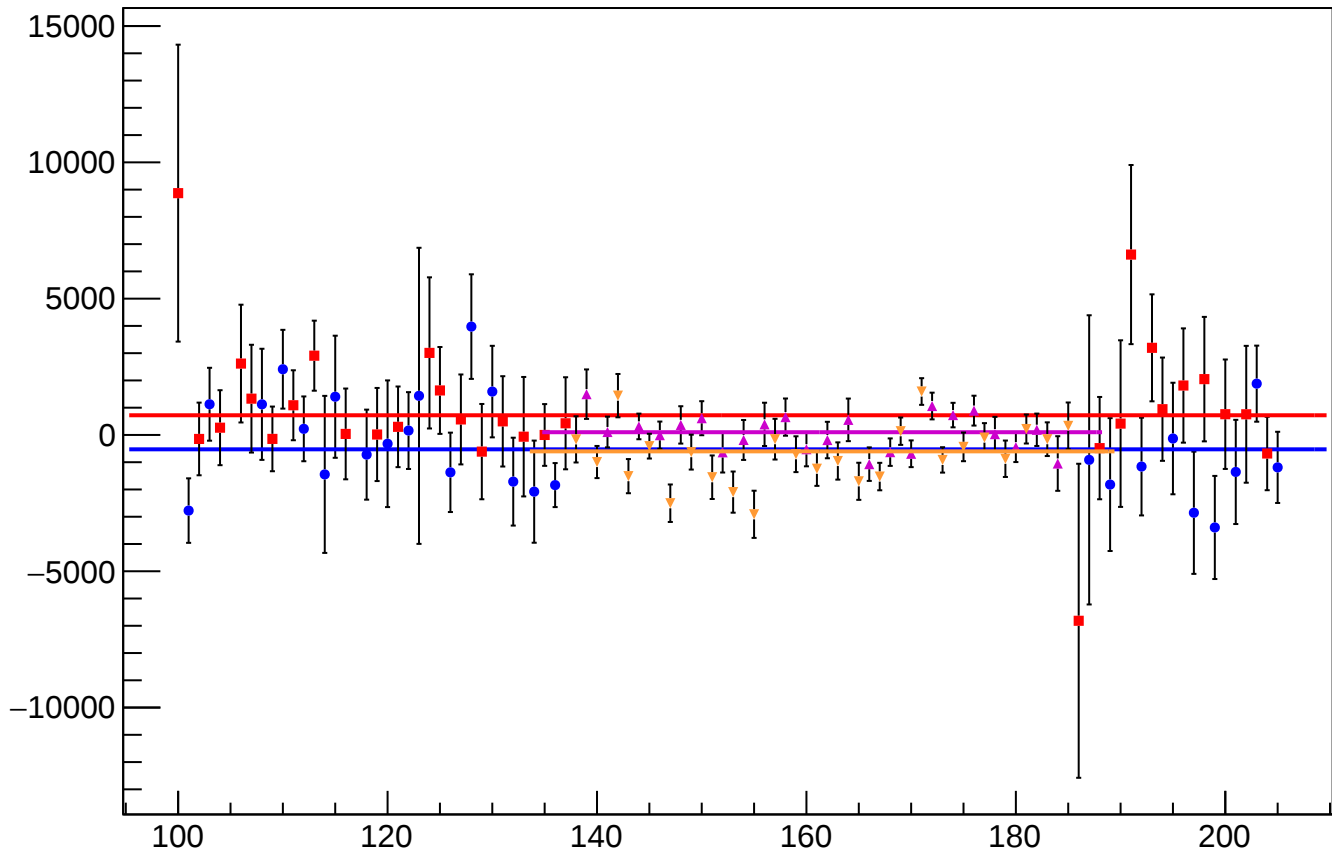
Right: 80.031+/-0.012 χ^2/NDF : 8718679.7/55

In: 67.289+/-0.009 χ^2/NDF : 5090535.4/48

Out: 67.110+/-0.009 χ^2/NDF : 6391304.7/54

All: 67.197+/-0.006 χ^2/NDF : 11482041.0/103

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -527.333+/-315.929 χ^2/NDF : 30.1/25

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 722.190+/-315.725 χ^2/NDF : 18.4/29

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

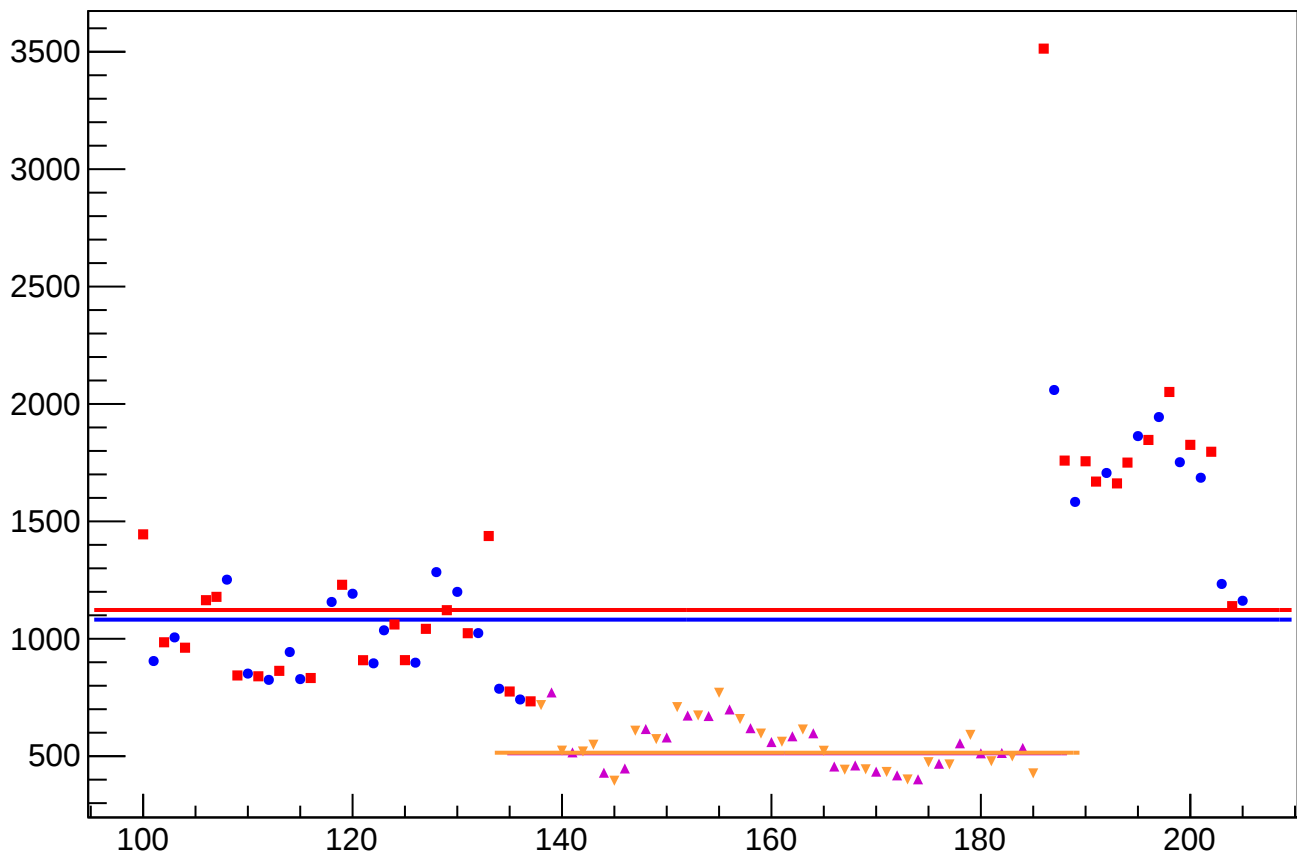
Right: 97.833+/-223.323 χ^2/NDF : 56.3/55

In: 15.884+/-116.011 χ^2/NDF : 59.0/48

Out: -429.228+/-113.896 χ^2/NDF : 99.1/54

All: -210.768+/-81.274 χ^2/NDF : 165.6/103

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1081.498+/-0.223 χ^2/NDF : 2219096.7/25

Left Out: 514.758+/-0.086 χ^2/NDF :1194945.9/24

Right Out: 1122.587+/-0.223 χ^2/NDF : 2887182.6/29

Left In: 512.199+/-0.088 χ^2/NDF :1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

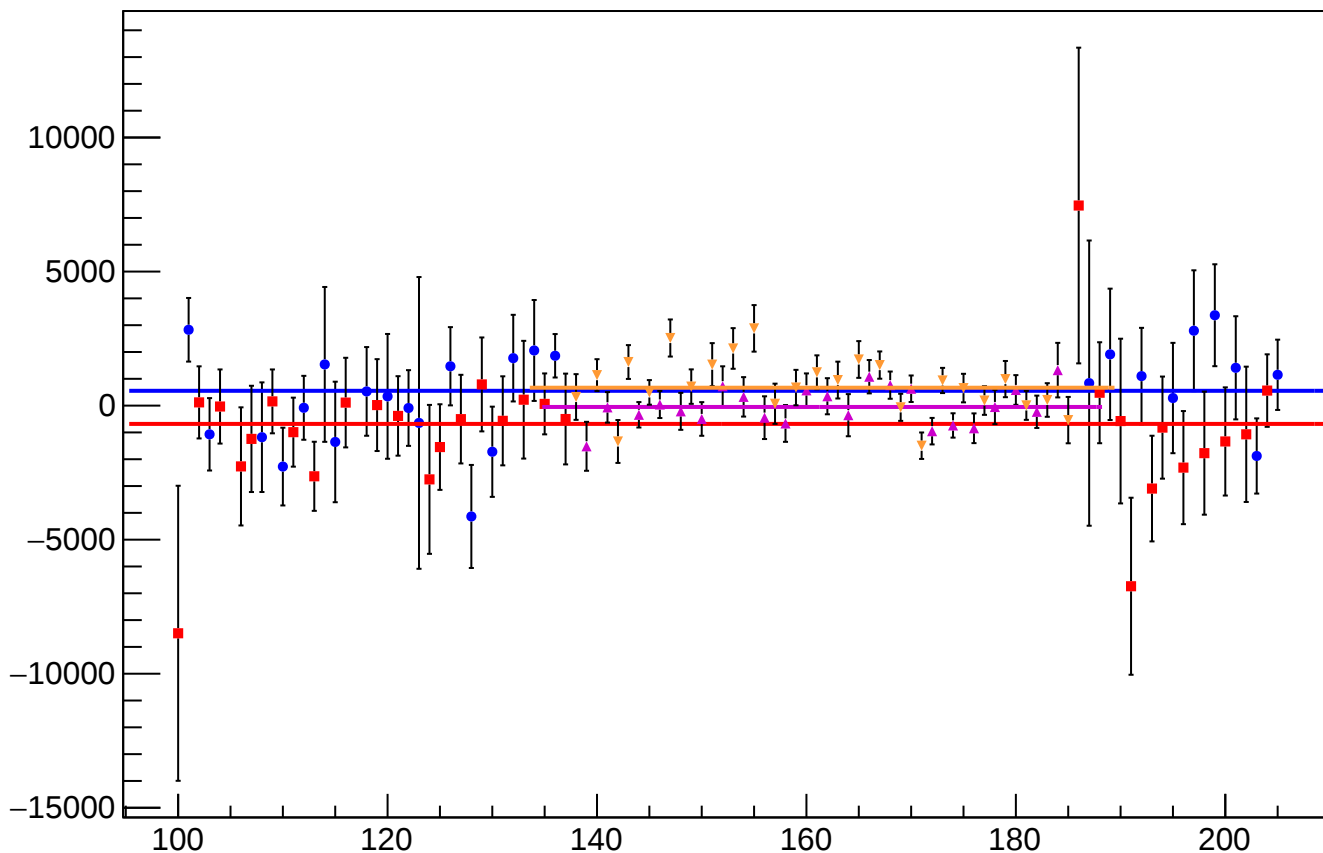
Right: 1102.056+/-0.158 χ^2/NDF : 5123204.9/55

In: 588.964+/-0.082 χ^2/NDF :8878991.9/48

Out: 593.858+/-0.081 χ^2/NDF :10530160.3/54

All: 591.456+/-0.057 χ^2/NDF : 19410964.7/100

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 552.540+/-317.125 χ^2/NDF : 30.0/25

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -682.356+/-317.060 χ^2/NDF : 17.6/29

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

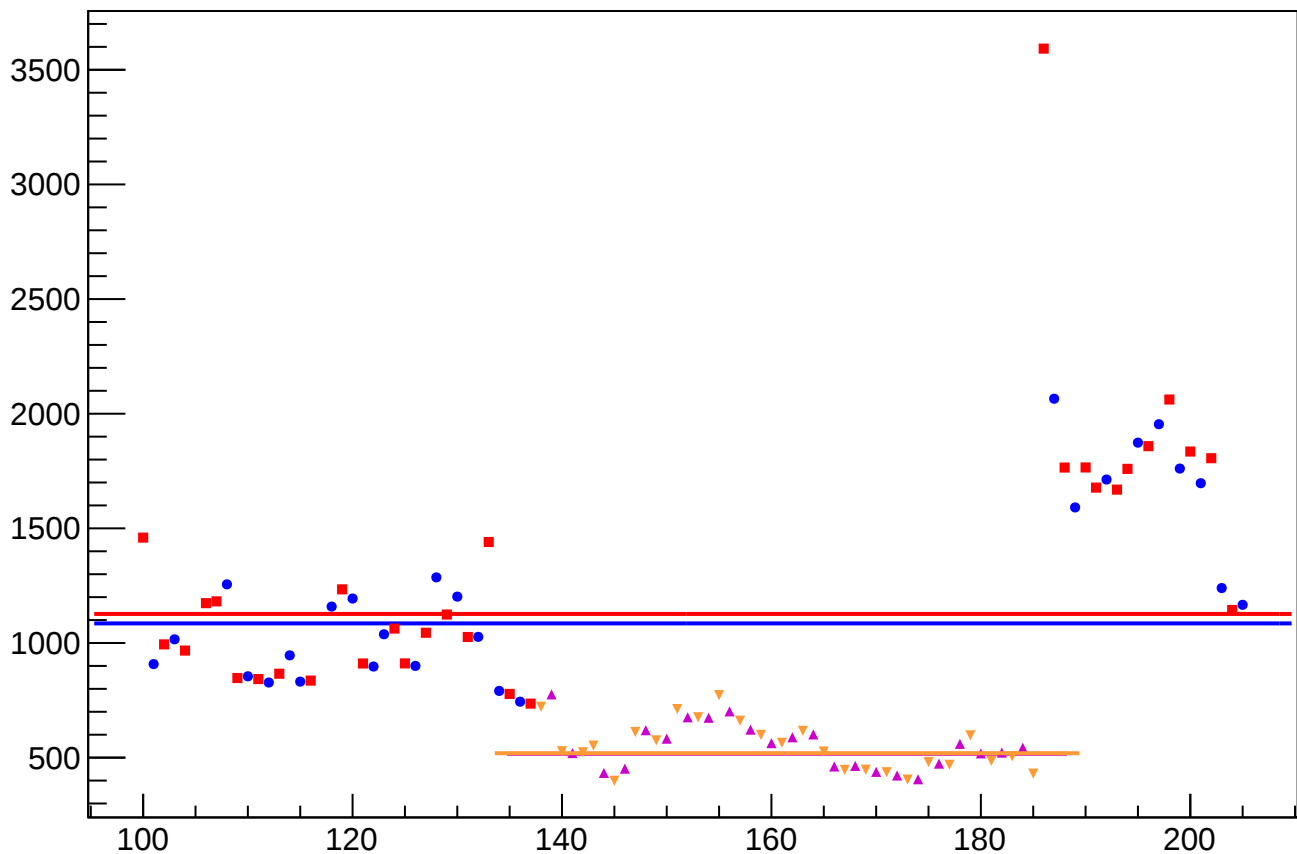
Right: -65.035+/-224.218 χ^2/NDF : 55.2/55

In: 31.863+/-116.939 χ^2/NDF : 59.2/48

Out: 490.670+/-114.791 χ^2/NDF : 94.9/54

All: 265.519+/-81.919 χ^2/NDF : 161.9/103

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1085.437+/-0.224 χ^2/NDF : 2226258.1/25

Left Out: 519.254+/-0.087 χ^2/NDF :1172411.1/24

Right Out: 1126.720+/-0.224 χ^2/NDF : 2901807.8/29

Left In: 516.792+/-0.089 χ^2/NDF :1021374.1/22

Left: 518.049+/-0.062 χ^2/NDF : 2194176.4/47

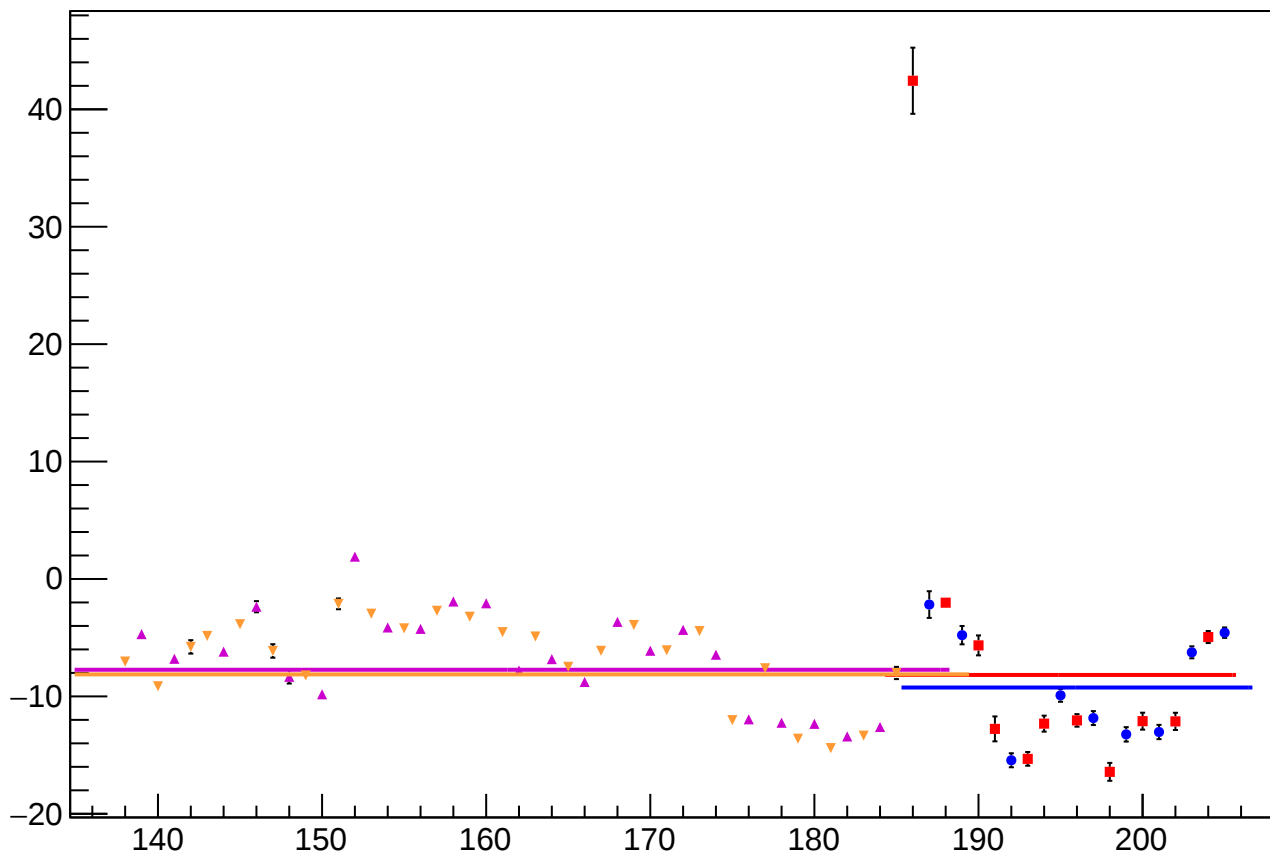
Right: 1106.083+/-0.159 χ^2/NDF : 5145015.9/55

In: 594.114+/-0.083 χ^2/NDF :8803828.8/48

Out: 598.880+/-0.081 χ^2/NDF :10453498.6/54

All: 596.541+/-0.058 χ^2/NDF : 19259019.8/10

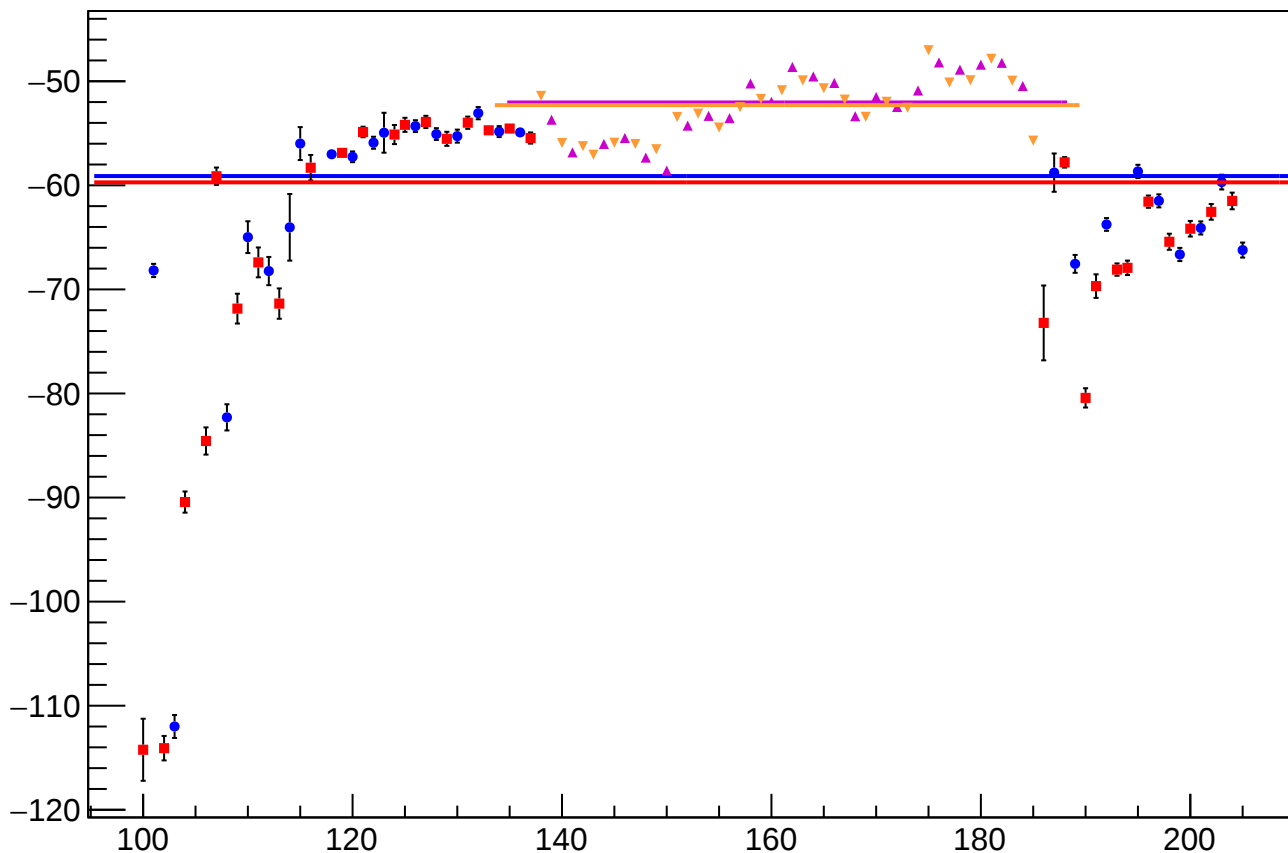
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.244 ± 0.198 $\chi^2/\text{NDF}: 425.0/8$
 Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$
 Right Out: -8.174 ± 0.185 $\chi^2/\text{NDF}: 1140.4/10$
 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: -8.674 ± 0.135 $\chi^2/\text{NDF}: 1581.1/19$
 In: -7.895 ± 0.065 $\chi^2/\text{NDF}: 4196.2/31$
 Out: -8.133 ± 0.063 $\chi^2/\text{NDF}: 4776.0/35$
 All: -8.017 ± 0.045 $\chi^2/\text{NDF}: 8979.0/67$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -59.110 $\pm$ 0.122 χ^2 /NDF: 4044.5/25

Left Out: -52.297 $\pm$ 0.055 χ^2 /NDF: 2657.5/24

Right Out: -59.713 $\pm$ 0.120 χ^2 /NDF: 5957.5/29

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

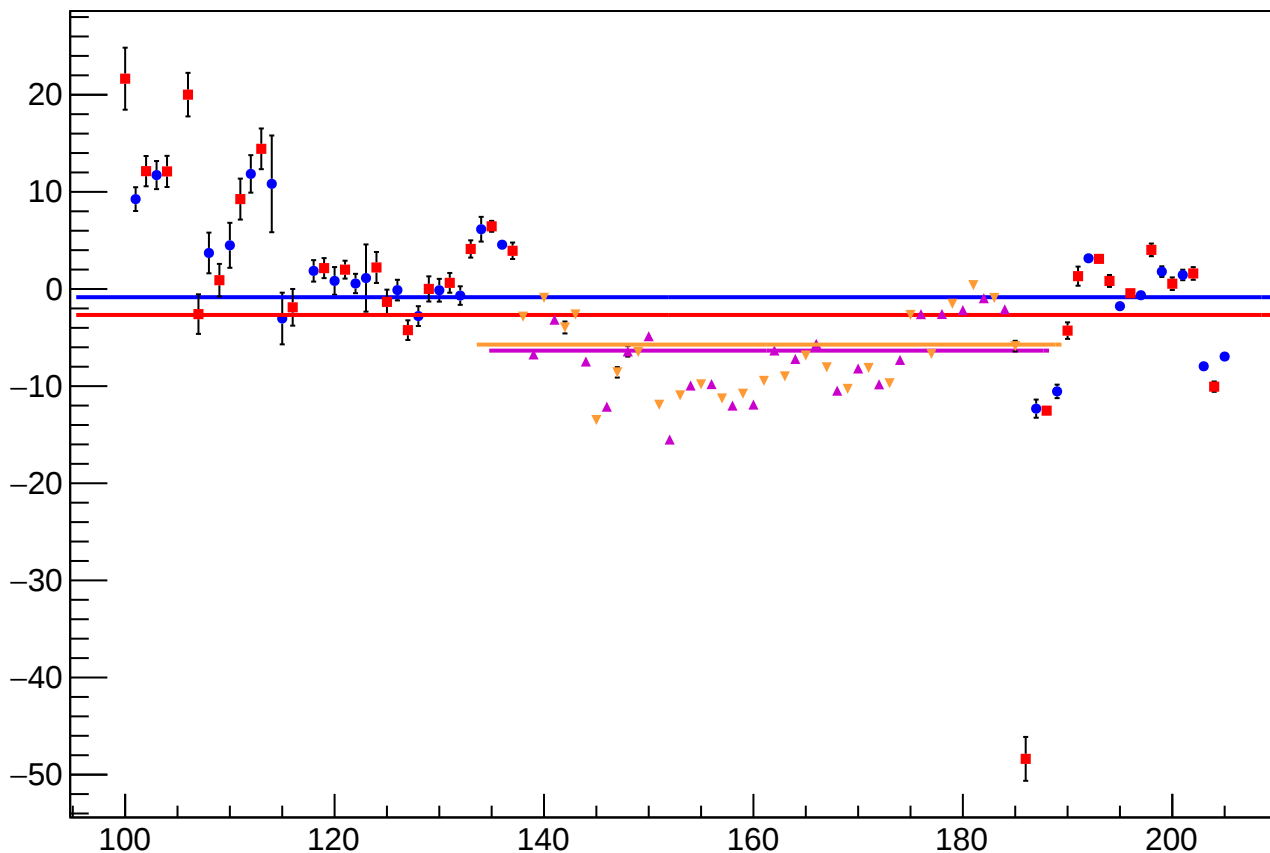
Right: -59.416 $\pm$ 0.086 χ^2 /NDF: 10014.3/55

In: -53.308 $\pm$ 0.052 χ^2 /NDF: 9974.8/48

Out: -53.584 $\pm$ 0.050 χ^2 /NDF: 11764.6/54

All: -53.451 $\pm$ 0.036 χ^2 /NDF: 21754.2/103

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.843 ± 0.148 χ^2/NDF : 1242.2/25

Left Out: -5.722 ± 0.068 χ^2/NDF : 3983.0/24

Right Out: -2.672 ± 0.139 χ^2/NDF : 3183.3/29

Left In: -6.344 ± 0.069 χ^2/NDF : 3383.7/22

Left: -6.028 ± 0.048 χ^2/NDF : 7408.5/47

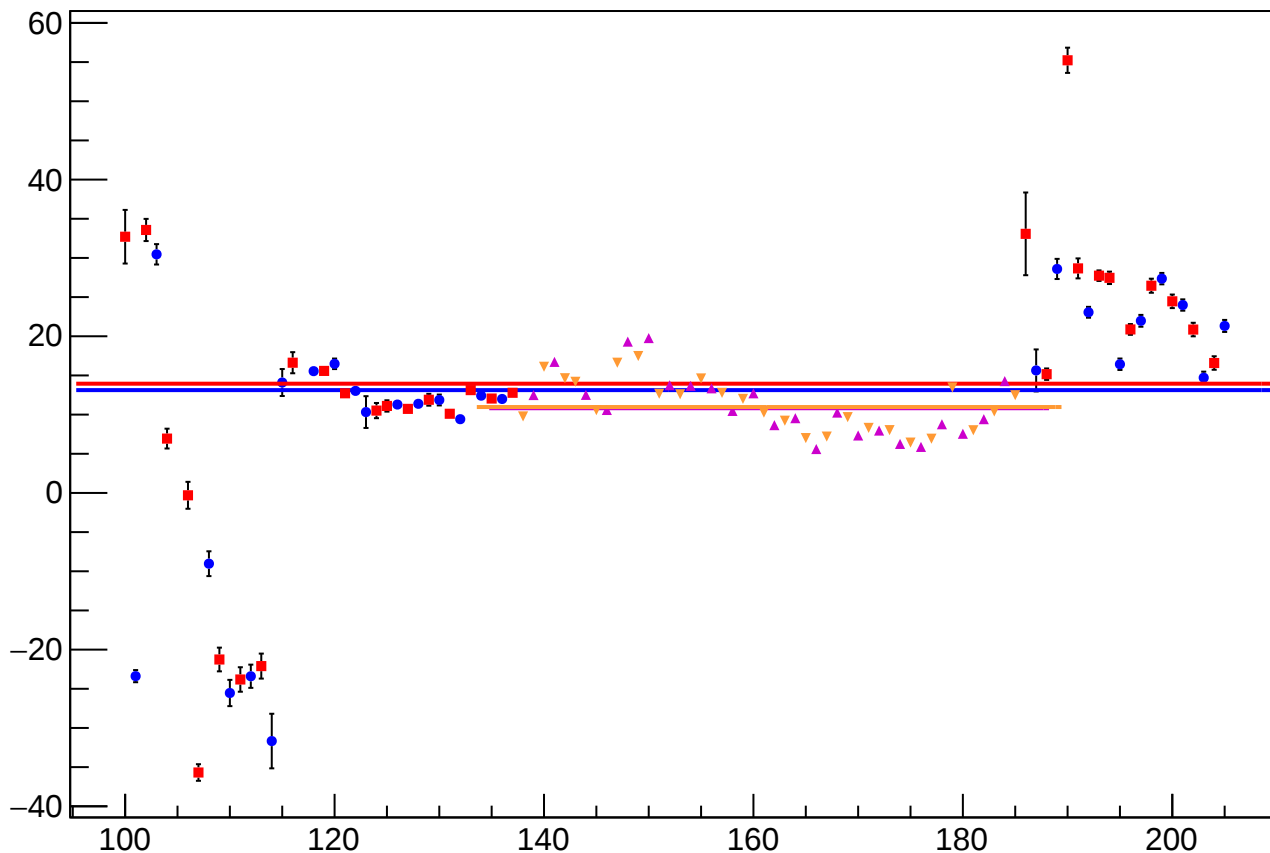
Right: -1.819 ± 0.101 χ^2/NDF : 4506.6/55

In: -5.374 ± 0.062 χ^2/NDF : 5758.8/48

Out: -5.136 ± 0.061 χ^2/NDF : 7557.2/54

All: -5.252 ± 0.043 χ^2/NDF : 13323.5/103

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.126 $\pm$ 0.137 χ^2 /NDF: 5253.6/25

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF:2637.7/24

Right Out: 13.947 $\pm$ 0.137 χ^2 /NDF: 6346.0/29

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF:3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

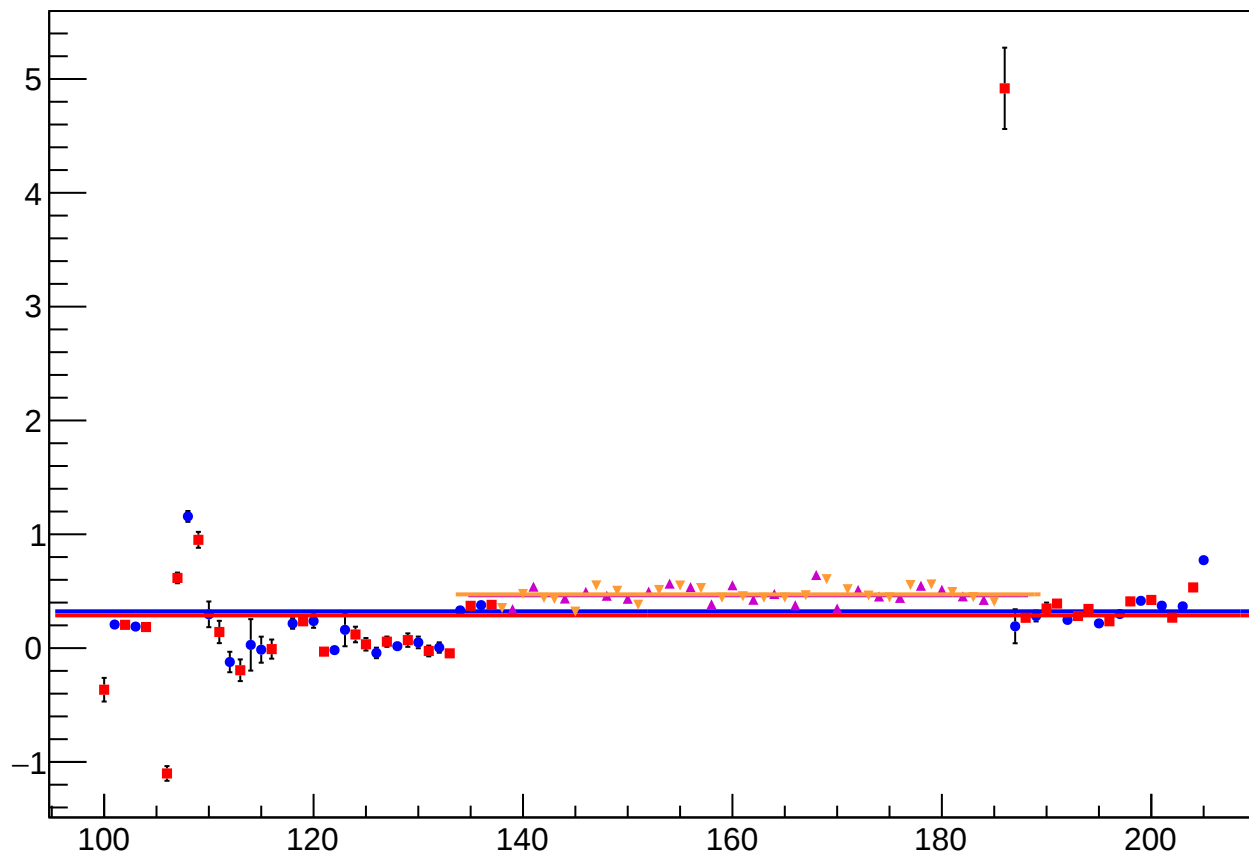
Right: 13.534 $\pm$ 0.097 χ^2 /NDF: 11617.6/55

In: 11.220 $\pm$ 0.057 χ^2 /NDF:9036.3/48

Out: 11.463 $\pm$ 0.056 χ^2 /NDF:9376.1/54

All: 11.344 $\pm$ 0.040 χ^2 /NDF: 18421.7/103

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.323 $\pm$ 0.006 χ^2 /NDF: 883.2/25

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.288 $\pm$ 0.006 χ^2 /NDF: 1299.2/29

Left In: 0.464 $\pm$ 0.003 χ^2 /NDF: 733.1/22

Left: 0.468 $\pm$ 0.002 χ^2 /NDF: 1256.2/47

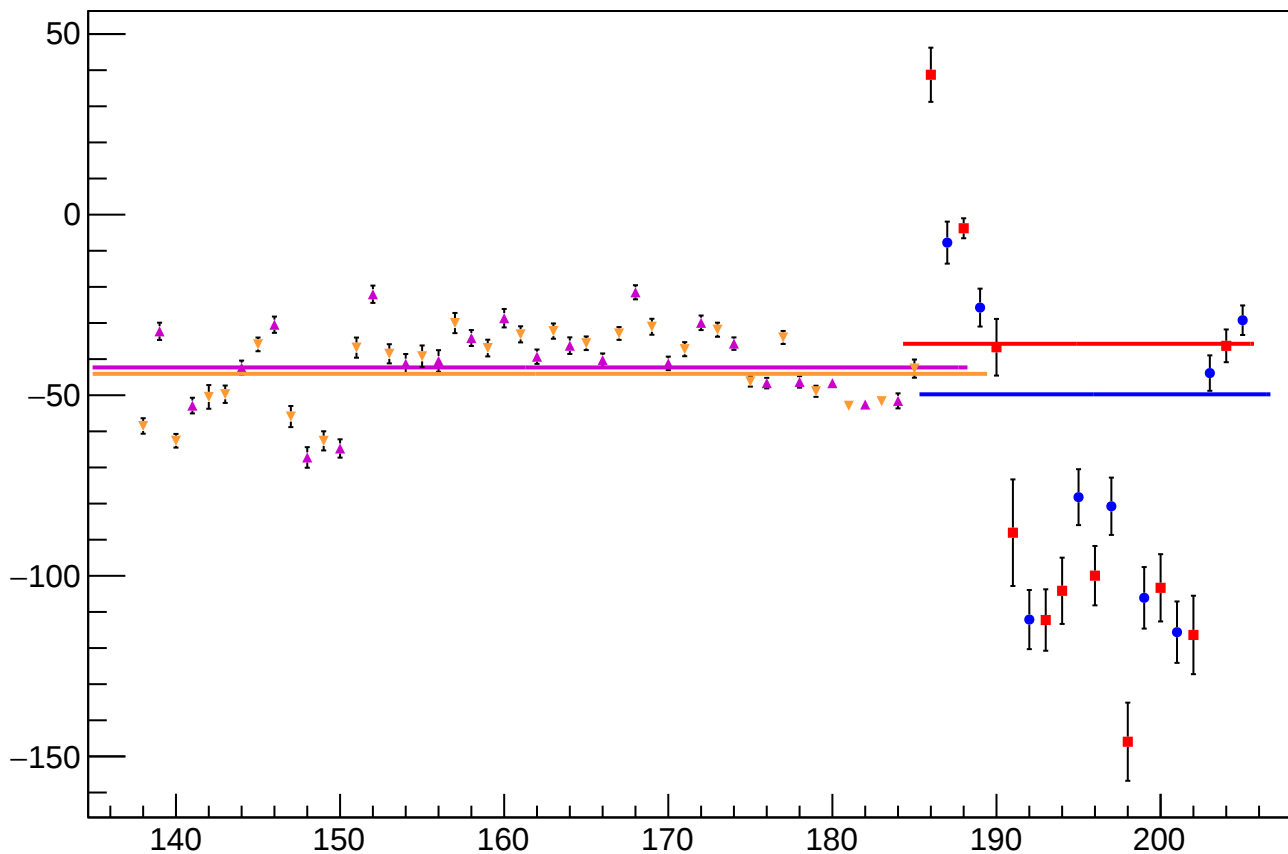
Right: 0.306 $\pm$ 0.004 χ^2 /NDF: 2200.3/55

In: 0.439 $\pm$ 0.003 χ^2 /NDF: 2072.9/48

Out: 0.440 $\pm$ 0.003 χ^2 /NDF: 2597.5/54

All: 0.440 $\pm$ 0.002 χ^2 /NDF: 4670.5/103

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



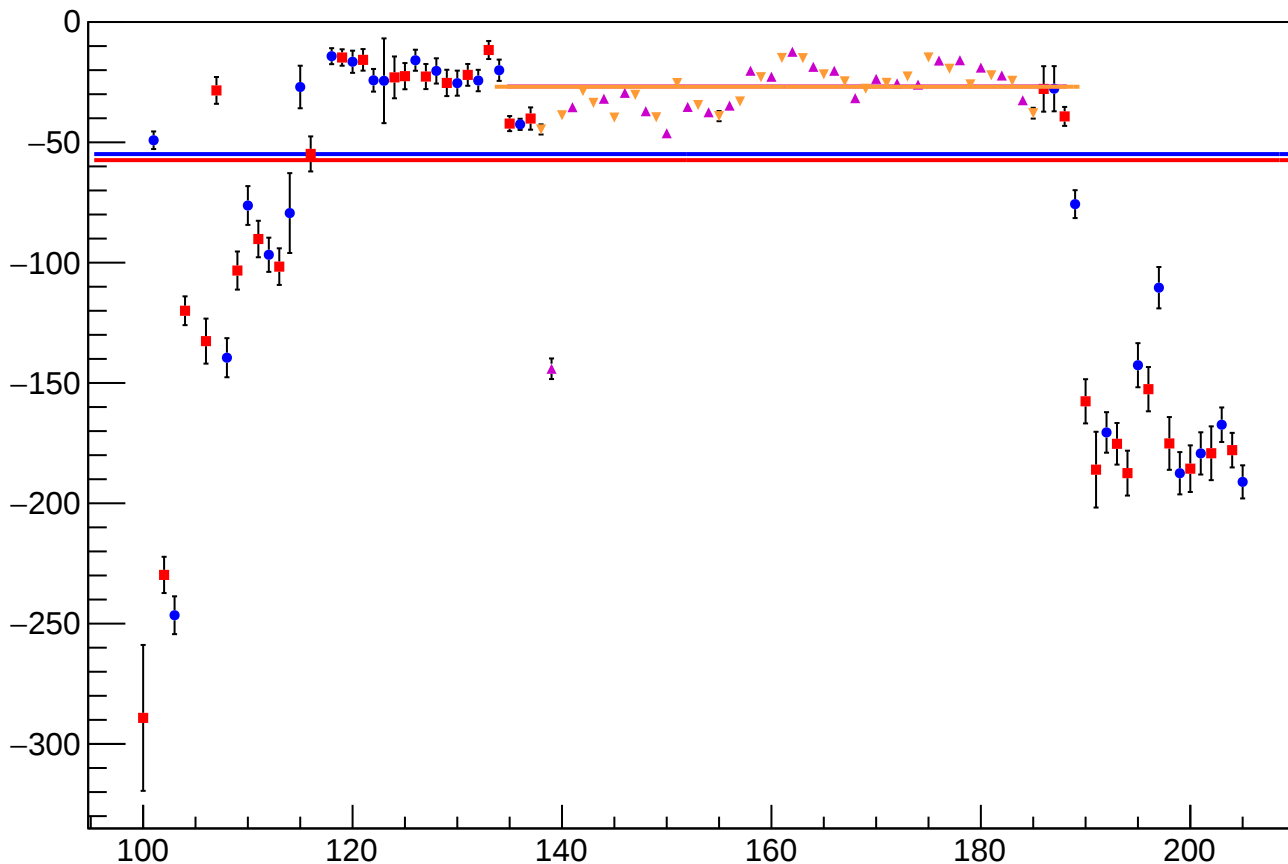
Right In: -49.746 ± 2.032 $\chi^2/\text{NDF}: 290.2/8$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -35.756 ± 1.866 $\chi^2/\text{NDF}: 653.9/10$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$
 Right: -42.159 ± 1.375 $\chi^2/\text{NDF}: 969.8/19$

In: -42.580 ± 0.392 $\chi^2/\text{NDF}: 943.7/31$
 Out: -43.732 ± 0.380 $\chi^2/\text{NDF}: 1305.5/35$

All: -43.173 ± 0.273 $\chi^2/\text{NDF}: 2253.7/67$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -54.882 ± 1.052 $\chi^2/\text{NDF}: 2725.4/25$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -57.393 ± 1.081 $\chi^2/\text{NDF}: 2889.5/29$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

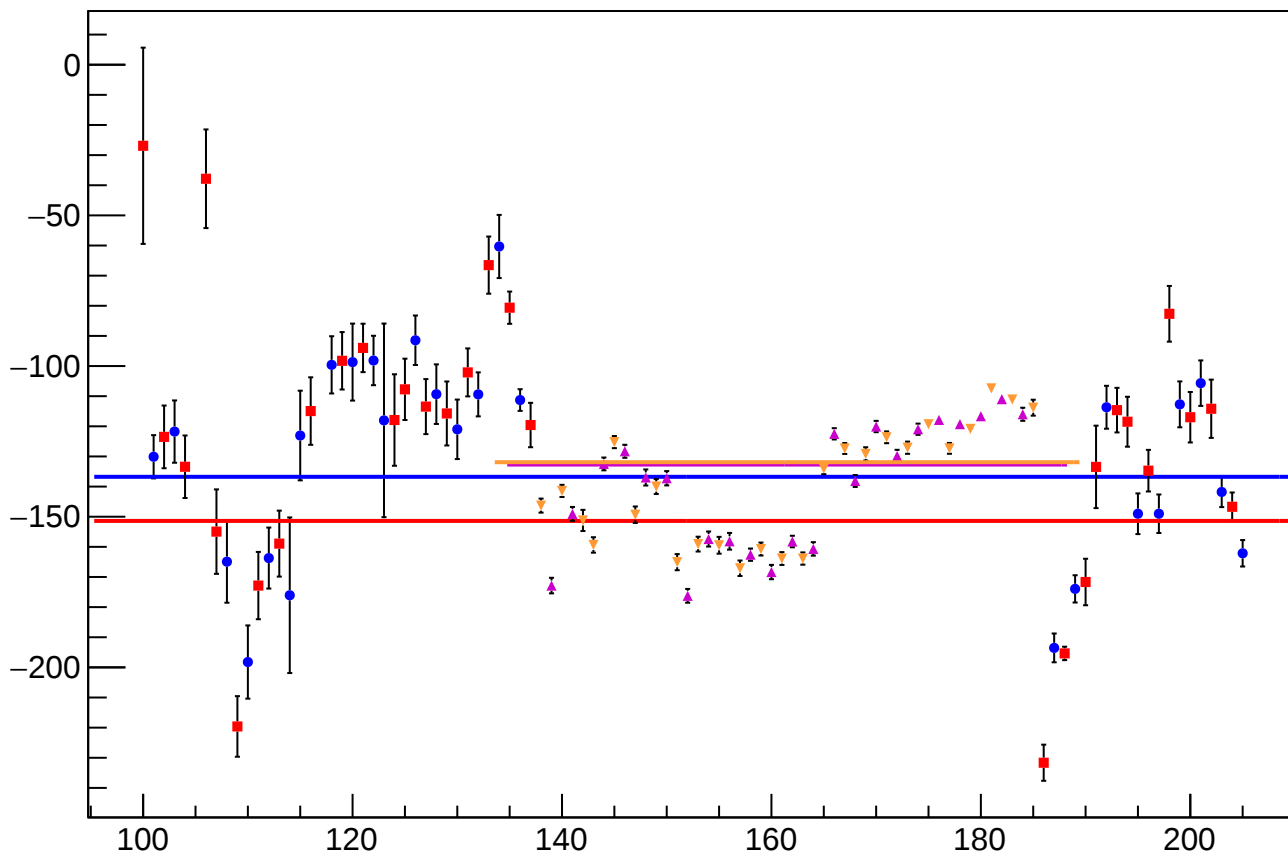
Right: -56.103 ± 0.754 $\chi^2/\text{NDF}: 5617.6/55$

In: -29.241 ± 0.312 $\chi^2/\text{NDF}: 4771.2/48$

Out: -29.305 ± 0.304 $\chi^2/\text{NDF}: 4253.0/54$

All: -29.274 ± 0.217 $\chi^2/\text{NDF}: 9024.3/103$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -136.757 ± 1.393 χ^2/NDF : 535.4/25

Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24

Right Out: -151.393 ± 1.302 χ^2/NDF : 1290.9/29

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

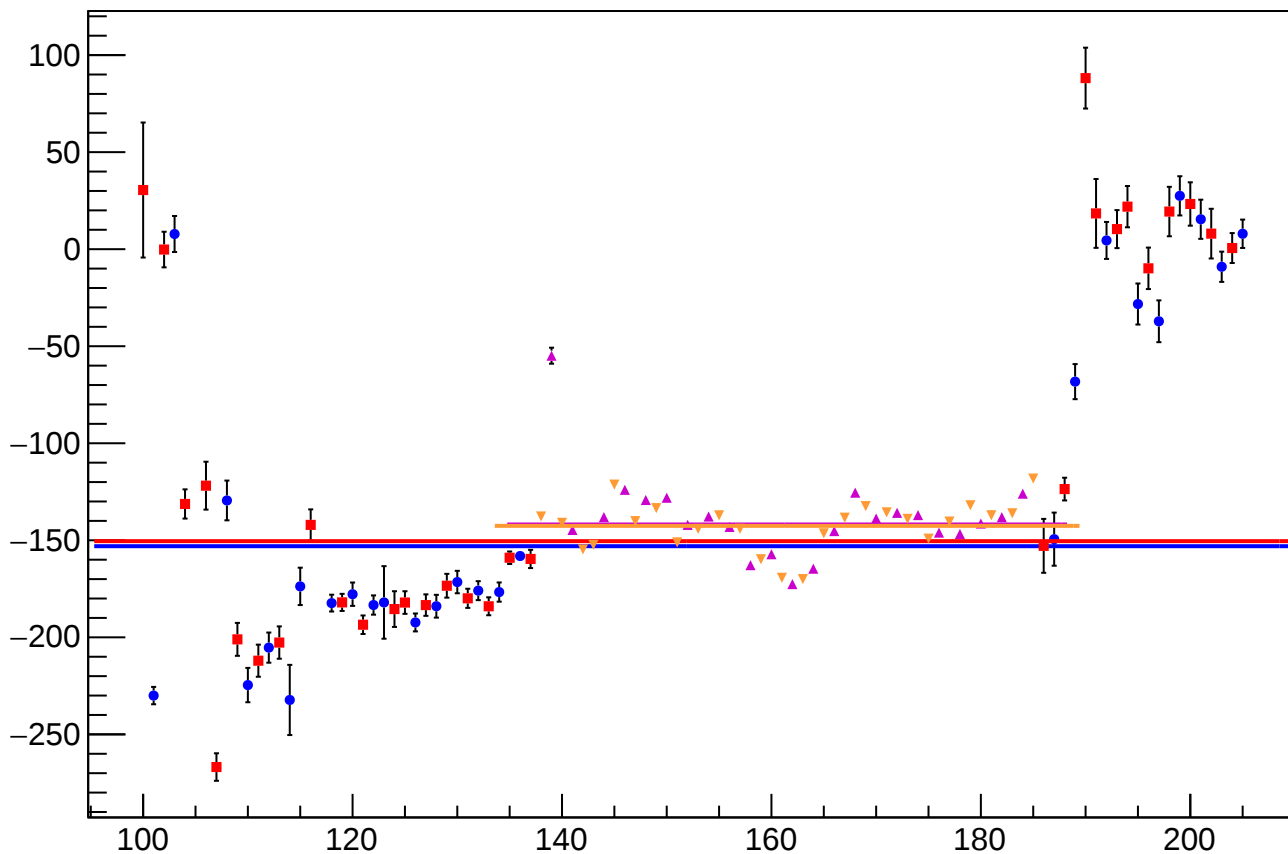
Right: -144.571 ± 0.951 χ^2/NDF : 1885.3/55

In: -132.998 ± 0.384 χ^2/NDF : 3023.5/48

Out: -133.528 ± 0.375 χ^2/NDF : 3935.7/54

All: -133.270 ± 0.268 χ^2/NDF : 6960.2/103

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -153.043 ± 1.185 χ^2/NDF : 3040.5/25

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -150.443 ± 1.242 χ^2/NDF : 3038.7/29

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

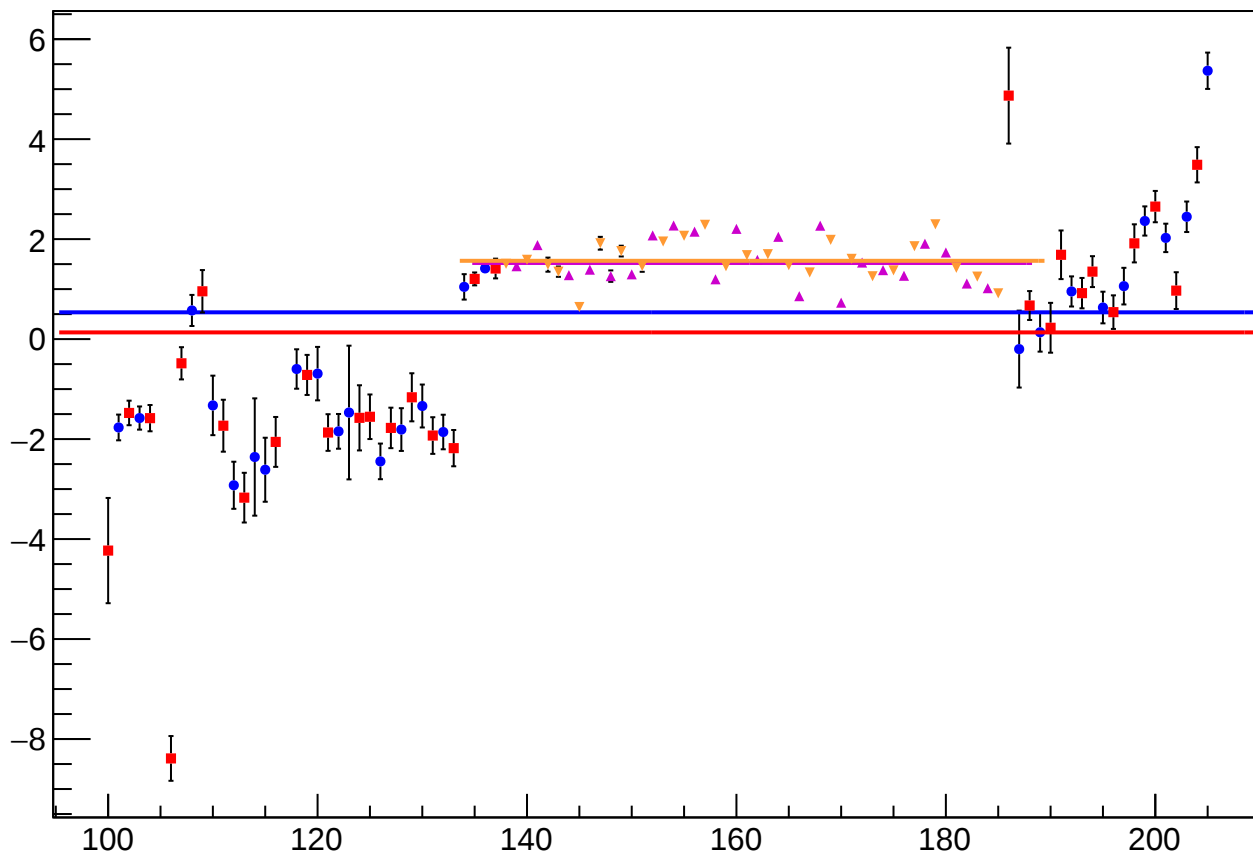
Right: -151.804 ± 0.857 χ^2/NDF : 6081.5/55

In: -142.820 ± 0.348 χ^2/NDF : 4666.2/48

Out: -143.156 ± 0.340 χ^2/NDF : 4223.6/54

All: -142.992 ± 0.243 χ^2/NDF : 8890.3/103

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.536 ± 0.058 χ^2/NDF : 861.4/25

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: 0.134 ± 0.060 χ^2/NDF : 1060.9/29

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

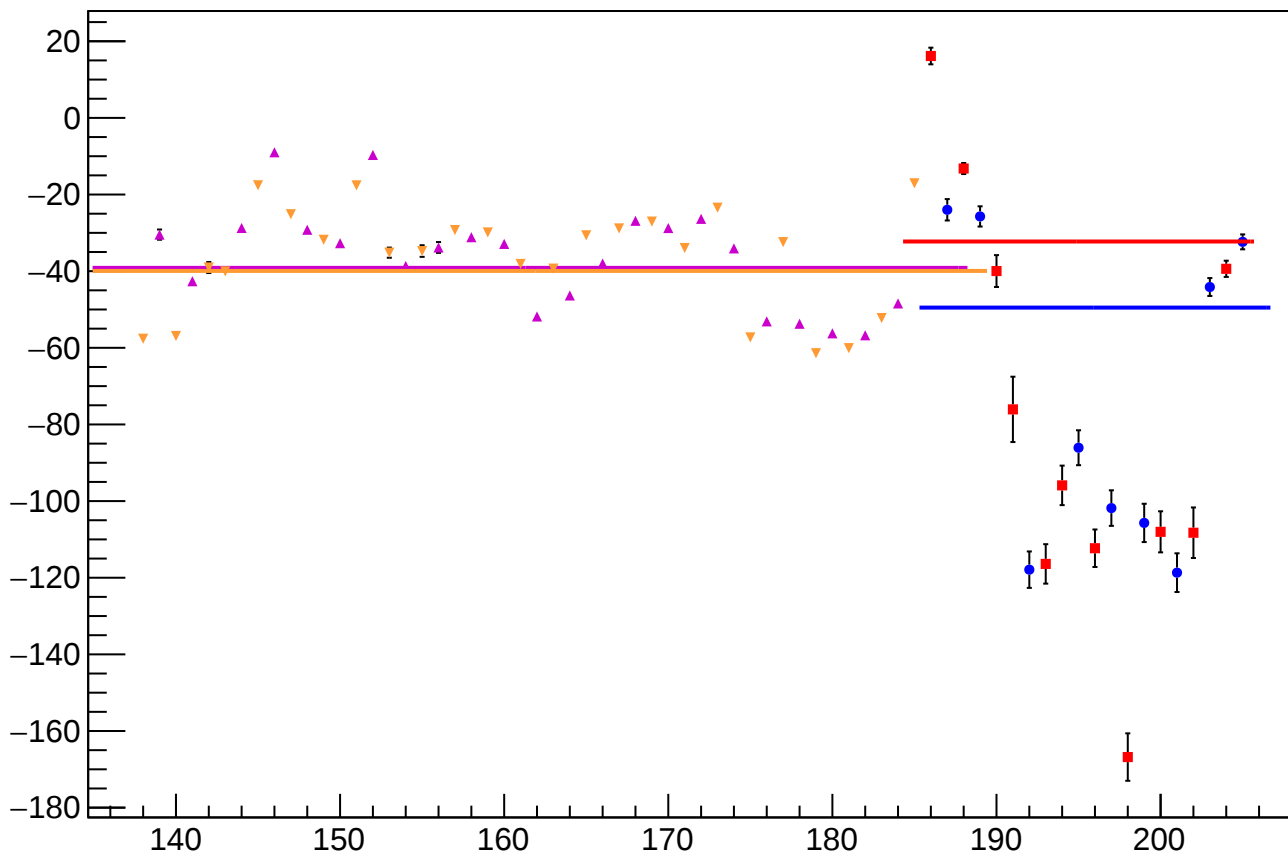
Right: 0.342 ± 0.041 χ^2/NDF : 1945.6/55

In: 1.448 ± 0.016 χ^2/NDF : 1870.8/48

Out: 1.468 ± 0.016 χ^2/NDF : 2138.9/54

All: 1.458 ± 0.011 χ^2/NDF : 4010.6/103

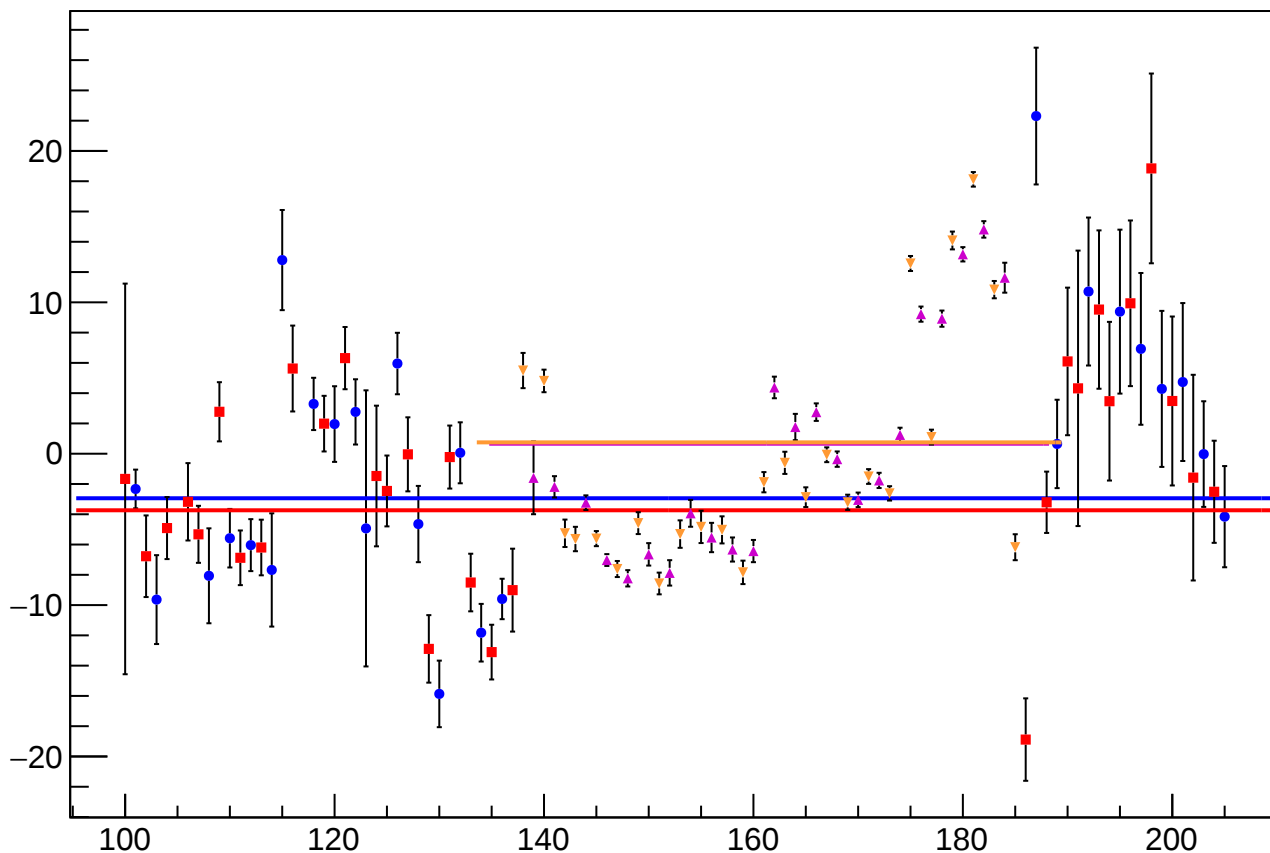
reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -49.505 $\pm$ 1.034 χ^2 /NDF: 959.8/8
 Left Out: -39.935 $\pm$ 0.153 χ^2 /NDF:9806.5/24
 Right Out: -32.259 $\pm$ 0.917 χ^2 /NDF: 2205.1/10
 Left In: -39.137 $\pm$ 0.155 χ^2 /NDF:8534.5/22

Left: -39.540 $\pm$ 0.109 χ^2 /NDF: 18354.5/47
 Right: -39.849 $\pm$ 0.686 χ^2 /NDF: 3320.7/19
 In: -39.364 $\pm$ 0.153 χ^2 /NDF:9592.6/31
 Out: -39.726 $\pm$ 0.151 χ^2 /NDF:12079.8/35
 All: -39.547 $\pm$ 0.107 χ^2 /NDF: 21675.3/67

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.942 ± 0.469 $\chi^2/\text{NDF}: 219.0/25$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.737 ± 0.467 $\chi^2/\text{NDF}: 187.5/29$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

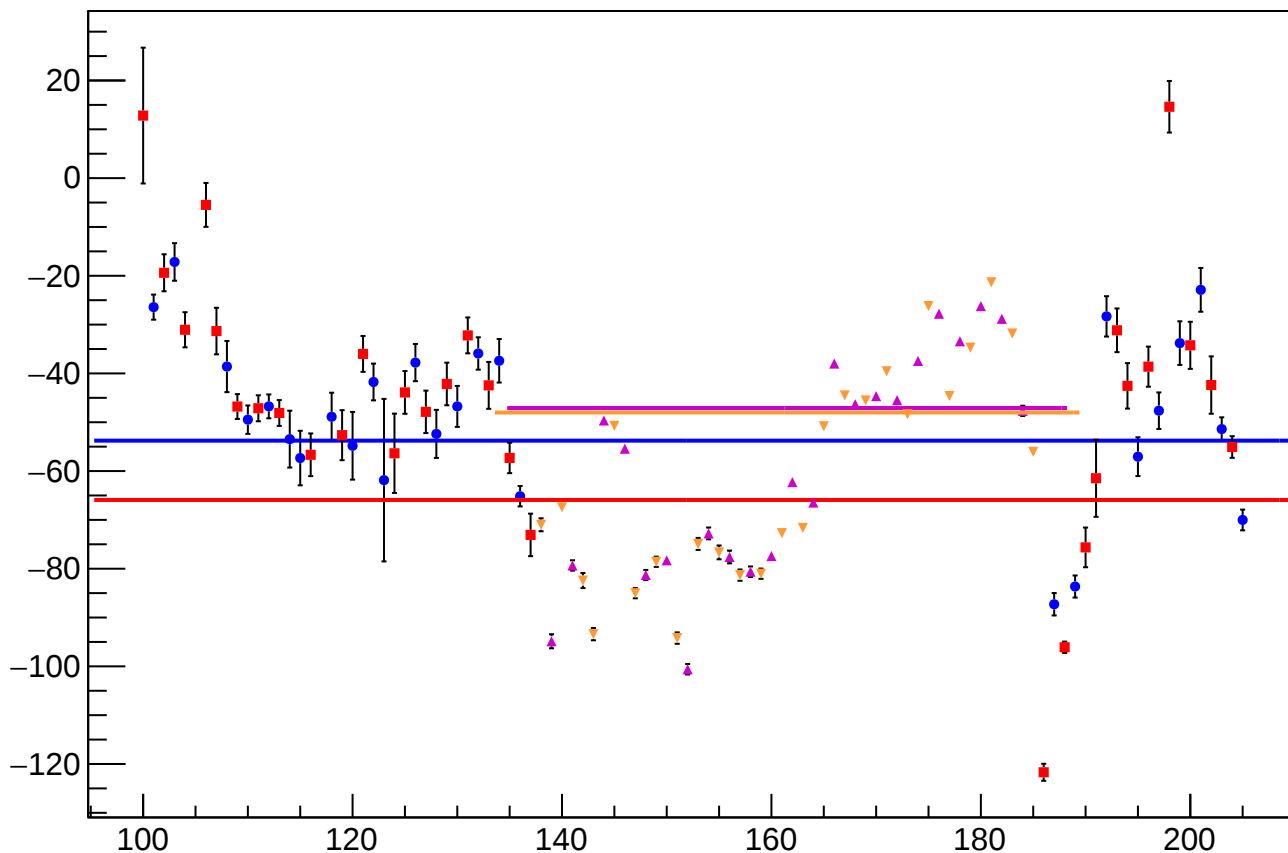
Right: -3.342 ± 0.331 $\chi^2/\text{NDF}: 407.9/55$

In: 0.424 ± 0.120 $\chi^2/\text{NDF}: 3611.9/48$

Out: 0.453 ± 0.120 $\chi^2/\text{NDF}: 4244.6/54$

All: 0.438 ± 0.085 $\chi^2/\text{NDF}: 7856.5/103$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -53.766 ± 0.653 χ^2/NDF : 882.4/25

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -65.918 ± 0.586 χ^2/NDF : 3080.5/29

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

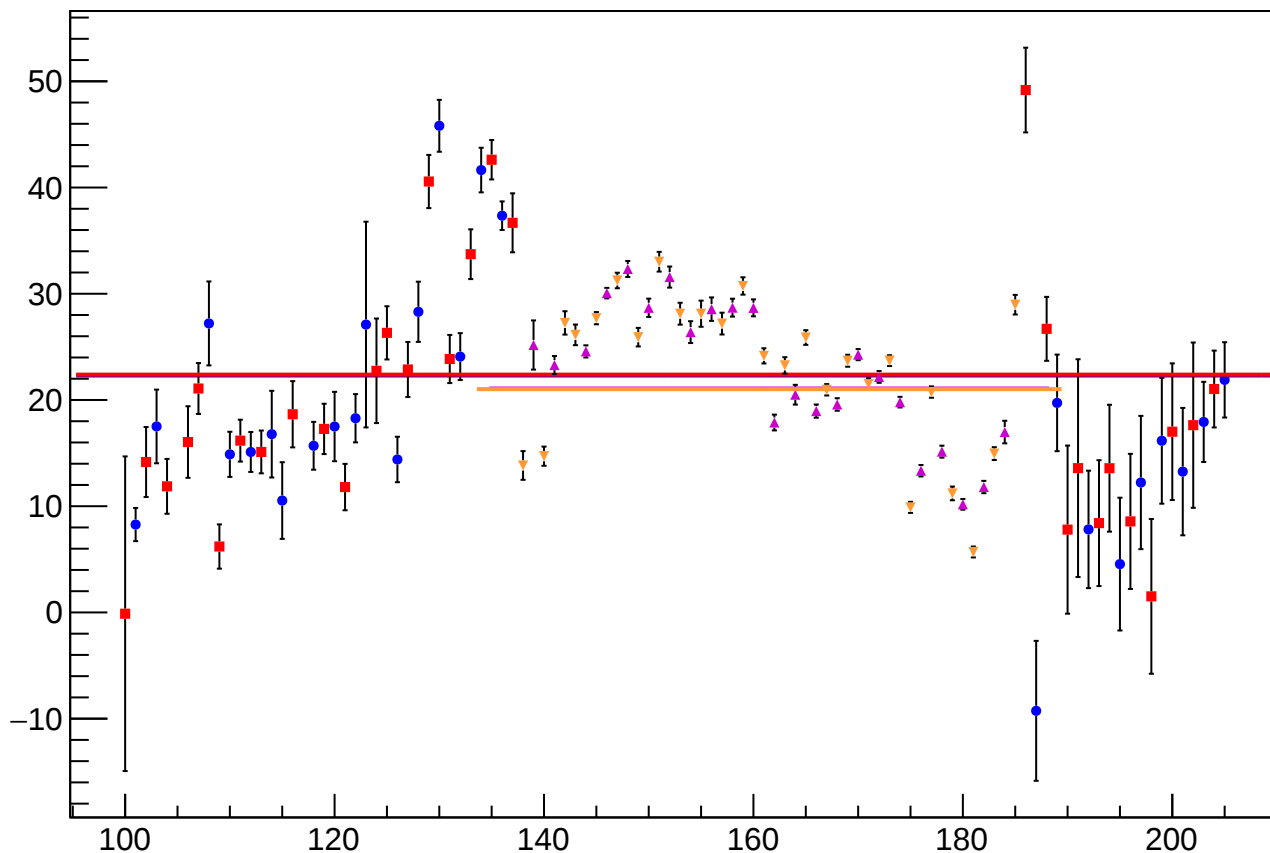
Right: -60.490 ± 0.436 χ^2/NDF : 4154.8/55

In: -47.443 ± 0.151 χ^2/NDF : 16496.8/48

Out: -49.173 ± 0.150 χ^2/NDF : 20902.9/54

All: -48.317 ± 0.106 χ^2/NDF : 37465.9/103

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.306 $\pm$ 0.531 χ^2 /NDF: 504.9/25

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.387 $\pm$ 0.538 χ^2 /NDF: 439.5/29

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

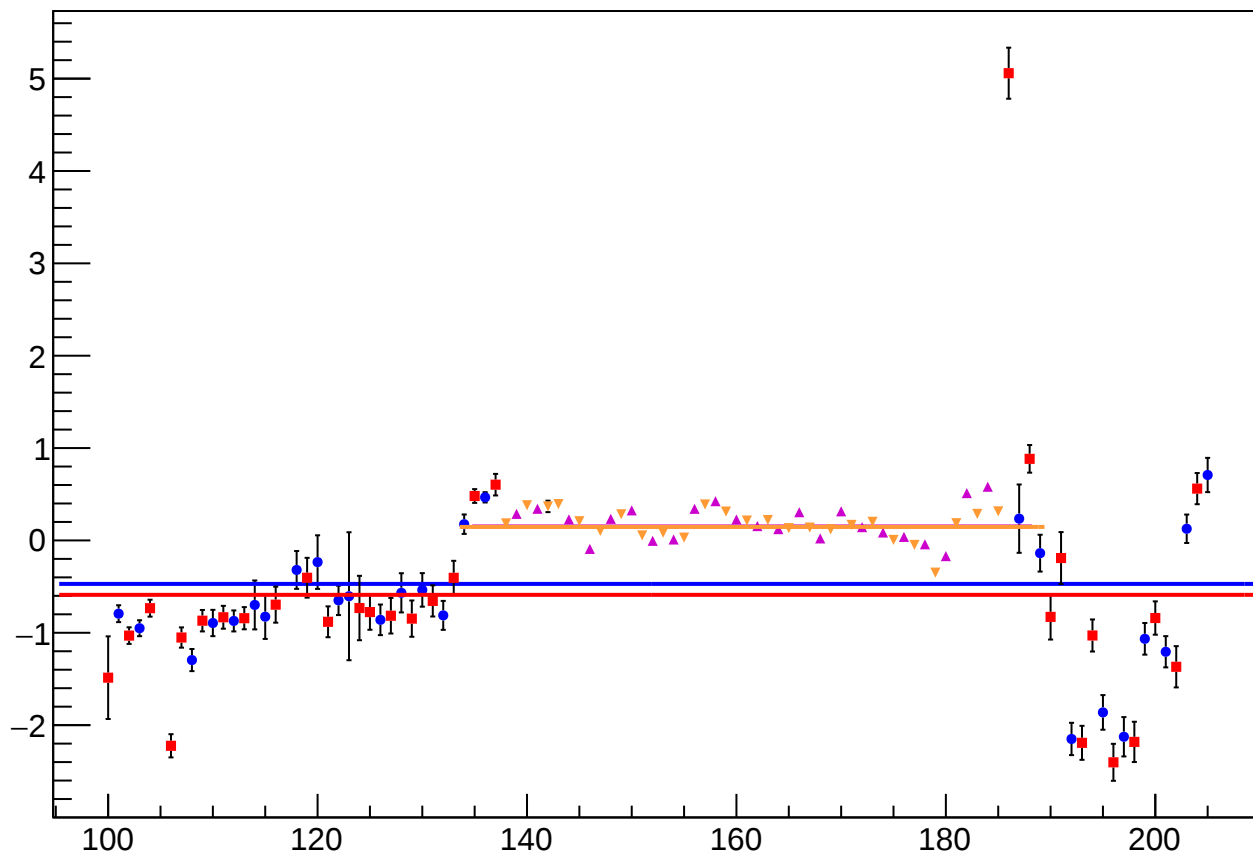
Right: 22.346 $\pm$ 0.378 χ^2 /NDF: 944.5/55

In: 21.158 $\pm$ 0.135 χ^2 /NDF:2683.1/48

Out: 21.105 $\pm$ 0.134 χ^2 /NDF:3244.8/54

All: 21.132 $\pm$ 0.095 χ^2 /NDF: 5928.1/103

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.471 ± 0.027 $\chi^2/\text{NDF}: 747.9/25$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.589 ± 0.027 $\chi^2/\text{NDF}: 1347.1/29$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

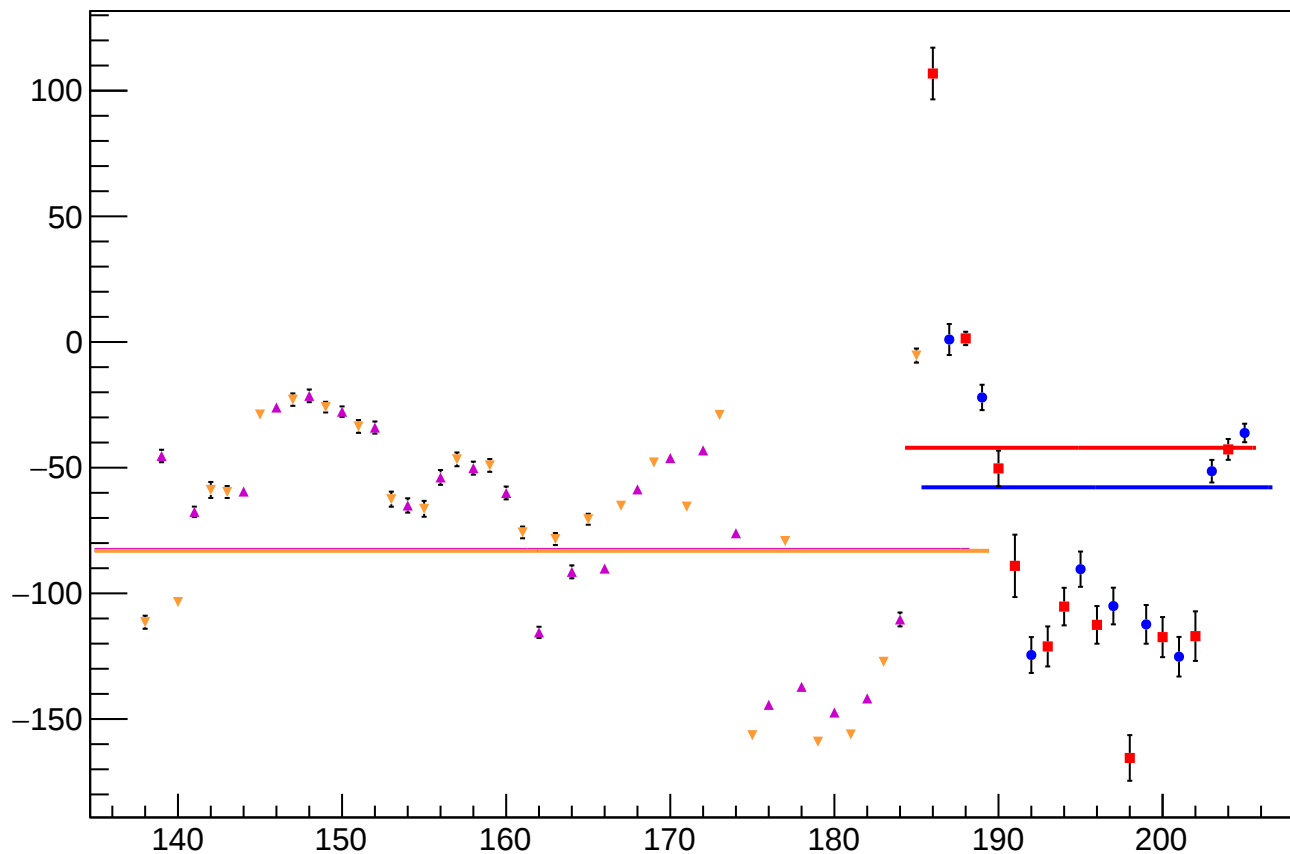
Right: -0.530 ± 0.019 $\chi^2/\text{NDF}: 2104.6/55$

In: 0.118 ± 0.006 $\chi^2/\text{NDF}: 2114.5/48$

Out: 0.108 ± 0.006 $\chi^2/\text{NDF}: 2661.7/54$

All: 0.113 ± 0.004 $\chi^2/\text{NDF}: 4777.6/103$

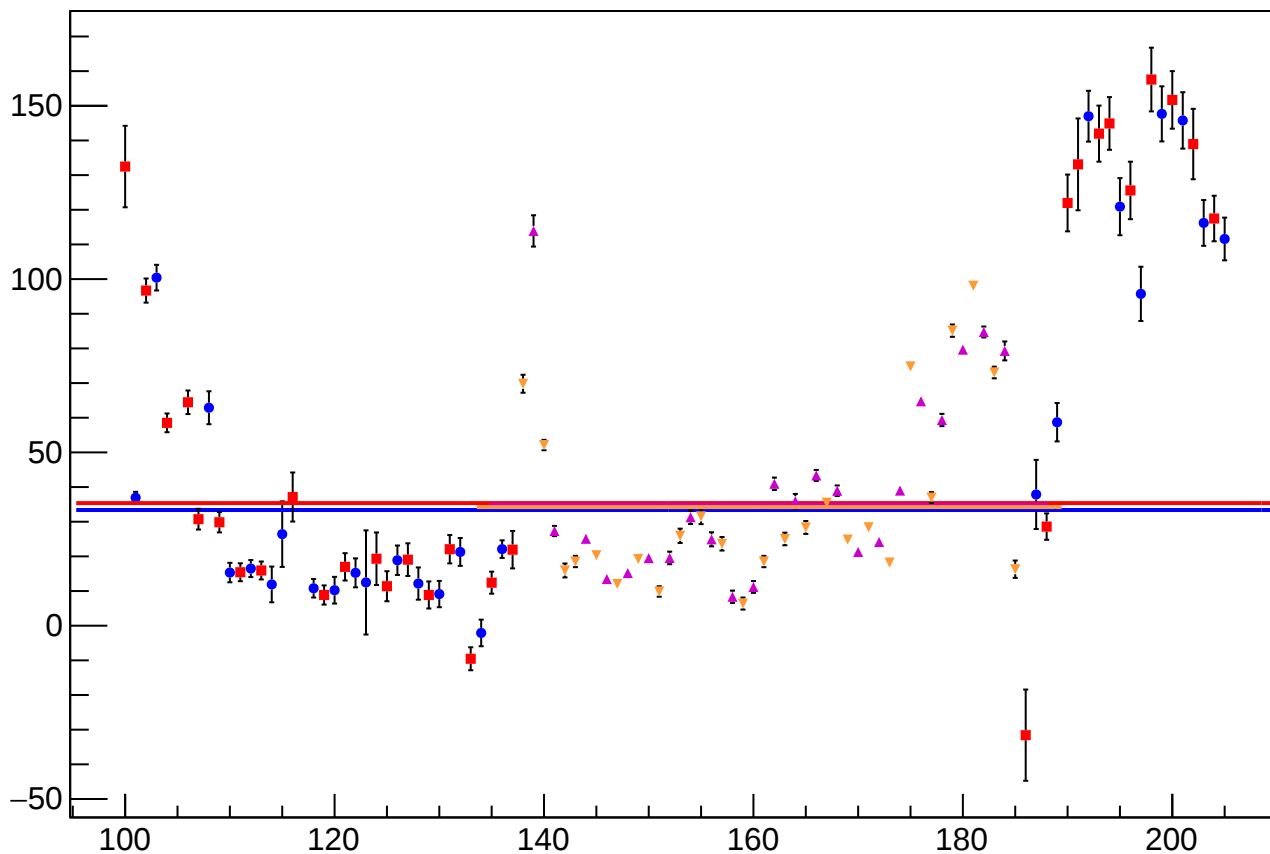
reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -57.809 ± 1.888 $\chi^2/\text{NDF}: 452.0/8$
 Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$
 Right Out: -42.081 ± 1.752 $\chi^2/\text{NDF}: 1084.3/10$
 Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$
 Right: -49.358 ± 1.284 $\chi^2/\text{NDF}: 1573.6/19$
 In: -81.562 ± 0.405 $\chi^2/\text{NDF}: 11459.3/31$
 Out: -80.976 ± 0.396 $\chi^2/\text{NDF}: 15421.0/35$
 All: -81.262 ± 0.283 $\chi^2/\text{NDF}: 26881.4/67$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 33.382 $\pm$ 0.766 χ^2 /NDF: 1946.1/25

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF: 6192.6/24

Right Out: 35.371 $\pm$ 0.762 χ^2 /NDF: 2434.3/29

Left In: 34.870 $\pm$ 0.329 χ^2 /NDF: 4716.1/22

Left: 34.535 $\pm$ 0.230 χ^2 /NDF: 10910.7/47

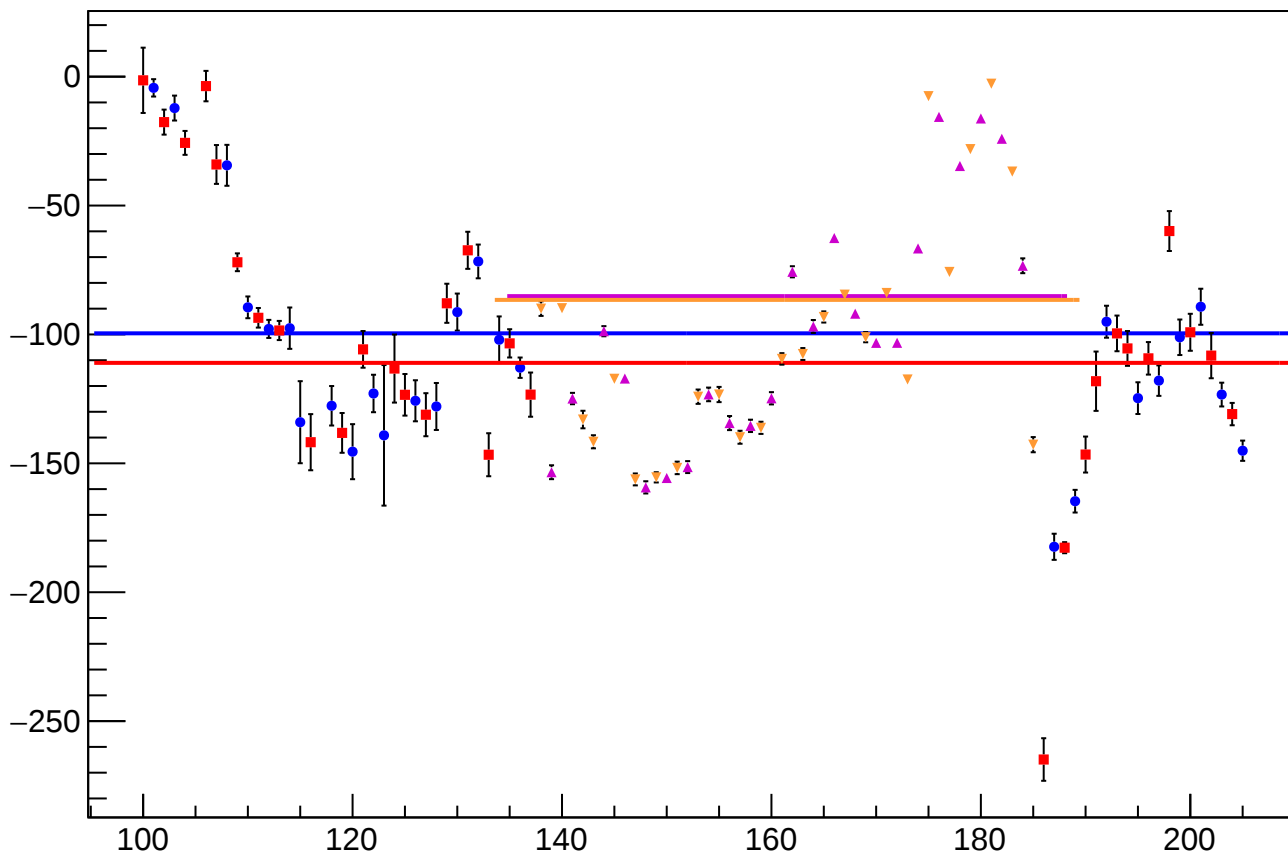
Right: 34.382 $\pm$ 0.540 χ^2 /NDF: 4383.8/55

In: 34.638 $\pm$ 0.302 χ^2 /NDF: 6665.4/48

Out: 34.392 $\pm$ 0.295 χ^2 /NDF: 8628.9/54

All: 34.512 $\pm$ 0.211 χ^2 /NDF: 15294.6/103

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -99.566 ± 1.103 χ^2/NDF : 1976.1/25

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -111.026 ± 1.012 χ^2/NDF : 3040.2/29

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

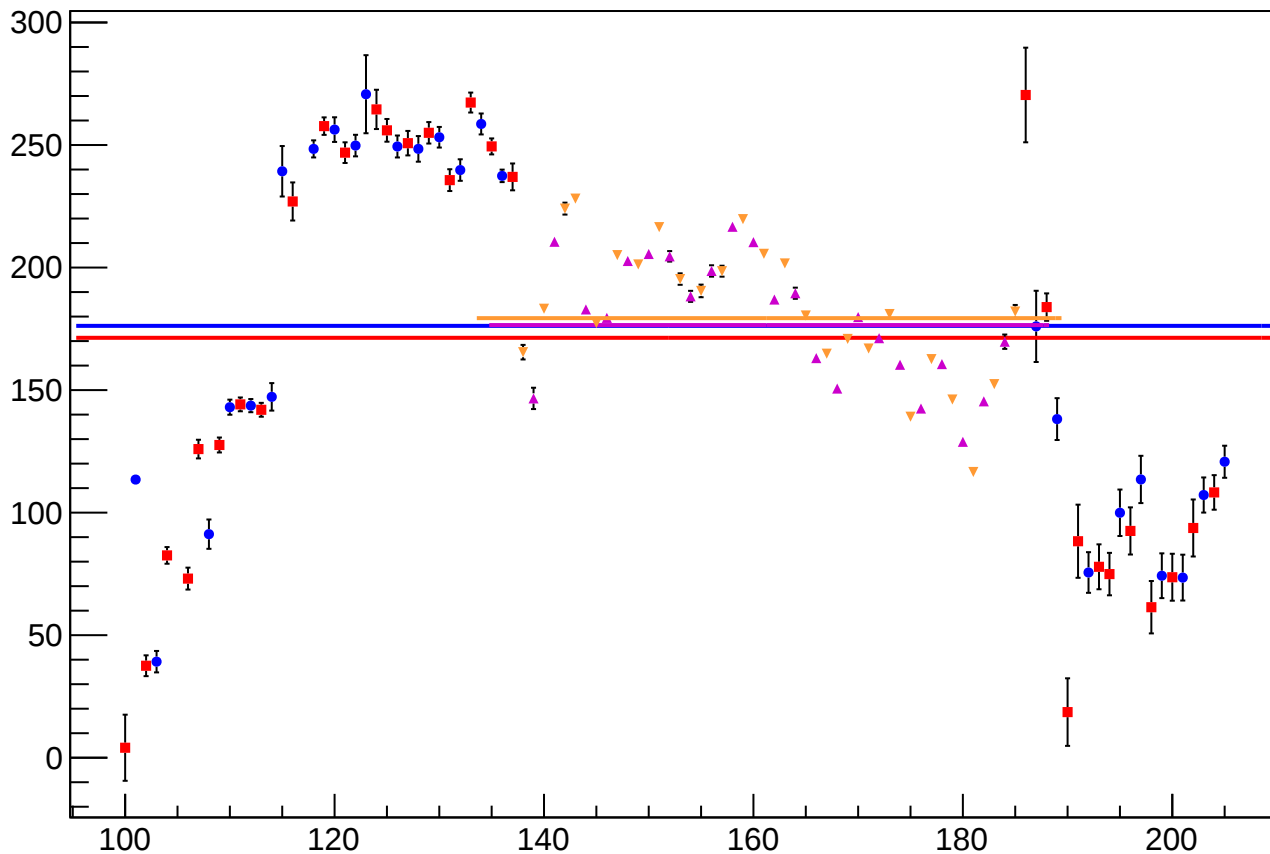
Right: -105.787 ± 0.746 χ^2/NDF : 5074.8/55

In: -86.924 ± 0.388 χ^2/NDF : 14967.3/48

Out: -90.015 ± 0.379 χ^2/NDF : 18056.7/54

All: -88.509 ± 0.271 χ^2/NDF : 33056.5/103

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 176.213 ± 0.876 $\chi^2/\text{NDF}: 6063.9/25$

Left Out: 179.359 ± 0.362 $\chi^2/\text{NDF}: 5982.2/24$

Right Out: 171.339 ± 0.878 $\chi^2/\text{NDF}: 7200.8/29$

Left In: 176.531 ± 0.371 $\chi^2/\text{NDF}: 4426.0/22$

Left: 177.980 ± 0.259 $\chi^2/\text{NDF}: 10438.0/47$

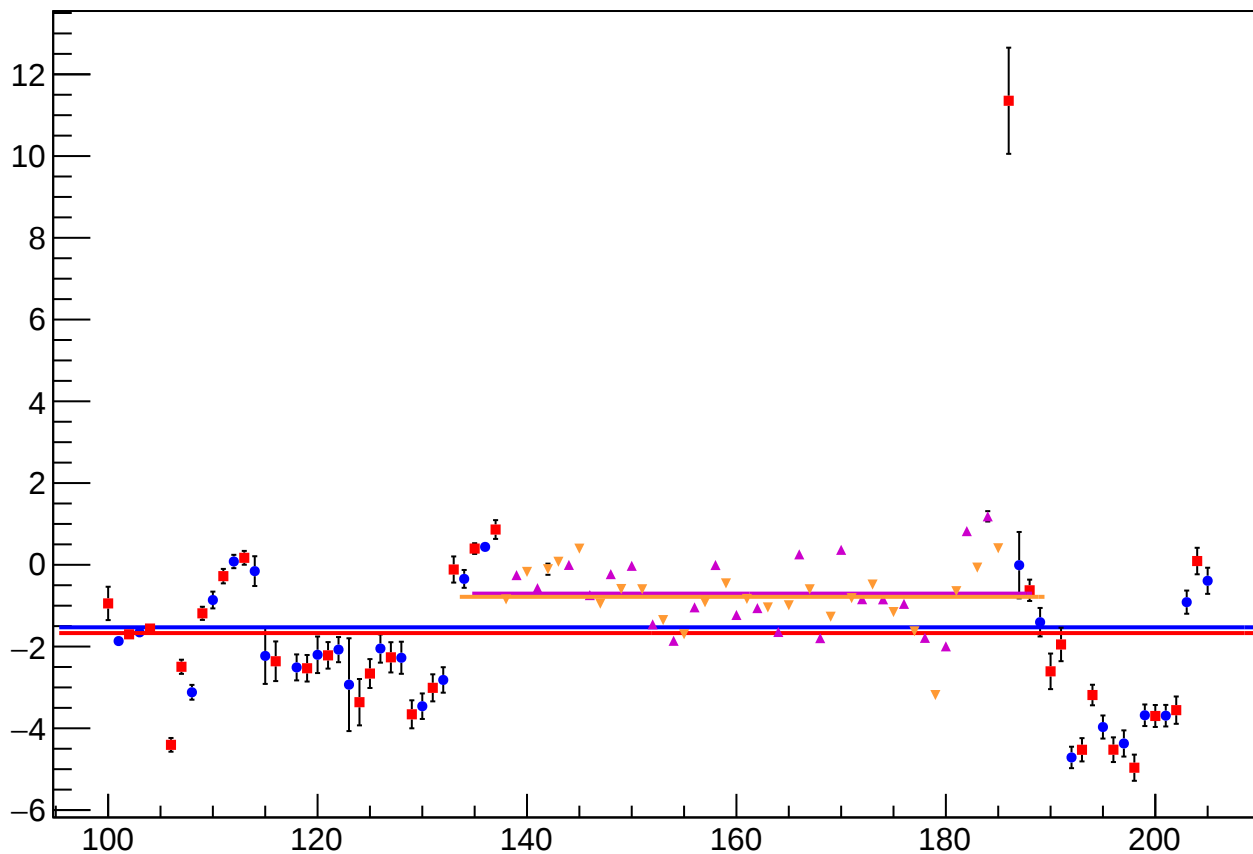
Right: 173.781 ± 0.620 $\chi^2/\text{NDF}: 13280.1/55$

In: 176.483 ± 0.342 $\chi^2/\text{NDF}: 10489.9/48$

Out: 178.195 ± 0.335 $\chi^2/\text{NDF}: 13254.4/54$

All: 177.357 ± 0.239 $\chi^2/\text{NDF}: 23757.1/103$

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.529 ± 0.044 χ^2/NDF : 1123.8/25

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.670 ± 0.041 χ^2/NDF : 1529.6/29

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

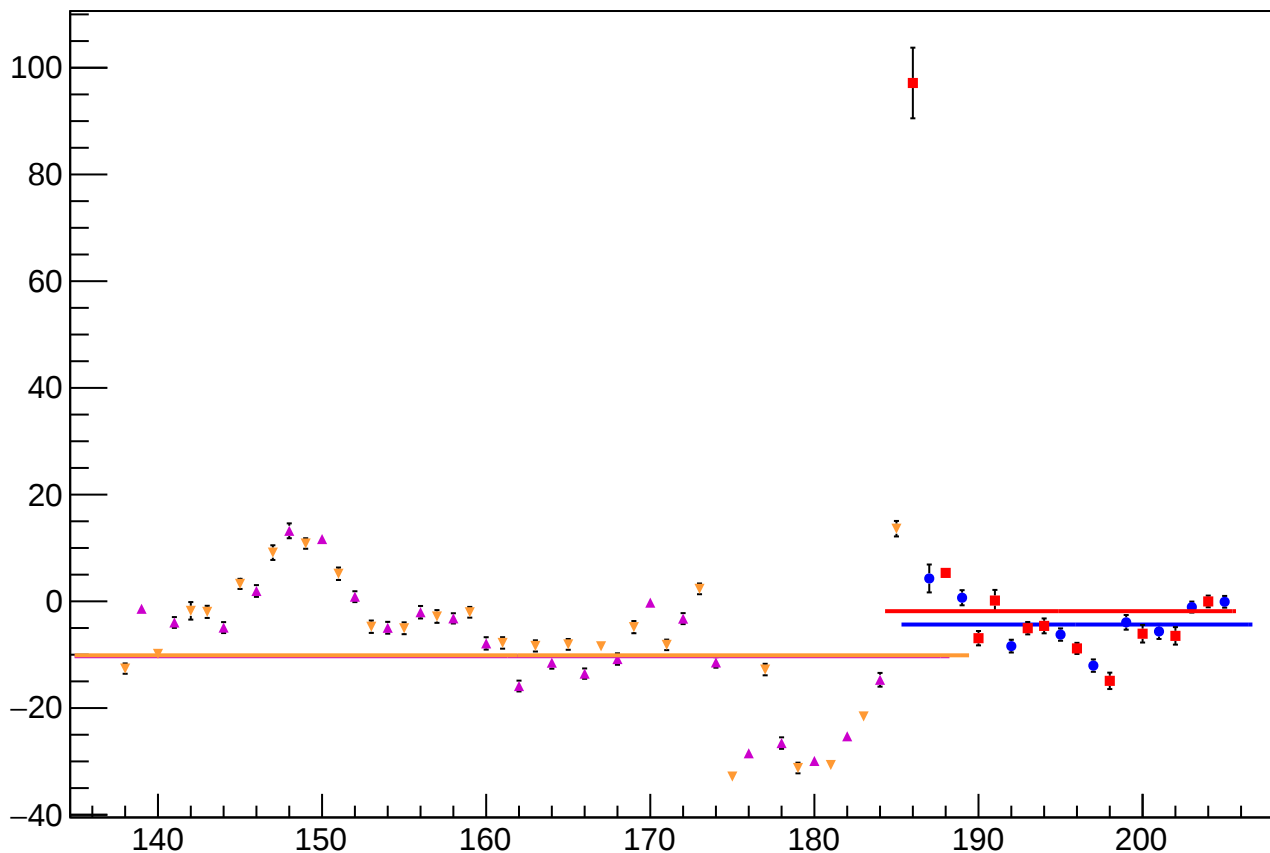
Right: -1.603 ± 0.030 χ^2/NDF : 2658.9/55

In: -0.813 ± 0.016 χ^2/NDF : 3842.9/48

Out: -0.906 ± 0.015 χ^2/NDF : 3696.4/54

All: -0.861 ± 0.011 χ^2/NDF : 7557.2/103

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.347 ± 0.421 $\chi^2/\text{NDF}: 107.6/8$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -1.844 ± 0.367 $\chi^2/\text{NDF}: 510.1/10$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

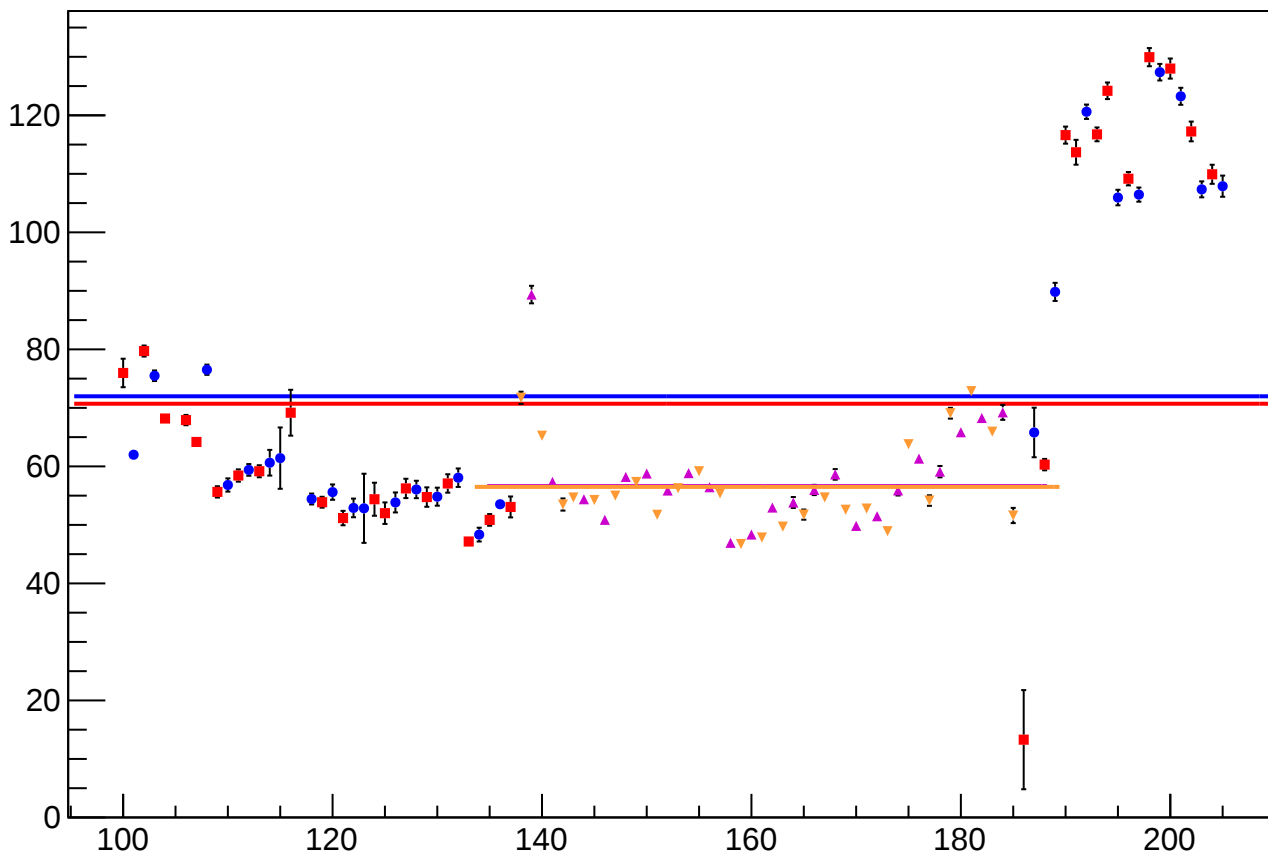
Right: -2.923 ± 0.277 $\chi^2/\text{NDF}: 637.8/19$

In: -9.148 ± 0.185 $\chi^2/\text{NDF}: 3719.5/31$

Out: -8.199 ± 0.177 $\chi^2/\text{NDF}: 5039.4/35$

All: -8.652 ± 0.128 $\chi^2/\text{NDF}: 8772.7/67$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 71.981+/-0.232 χ^2/NDF : 9784.7/25

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 70.709+/-0.216 χ^2/NDF : 12930.8/29

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

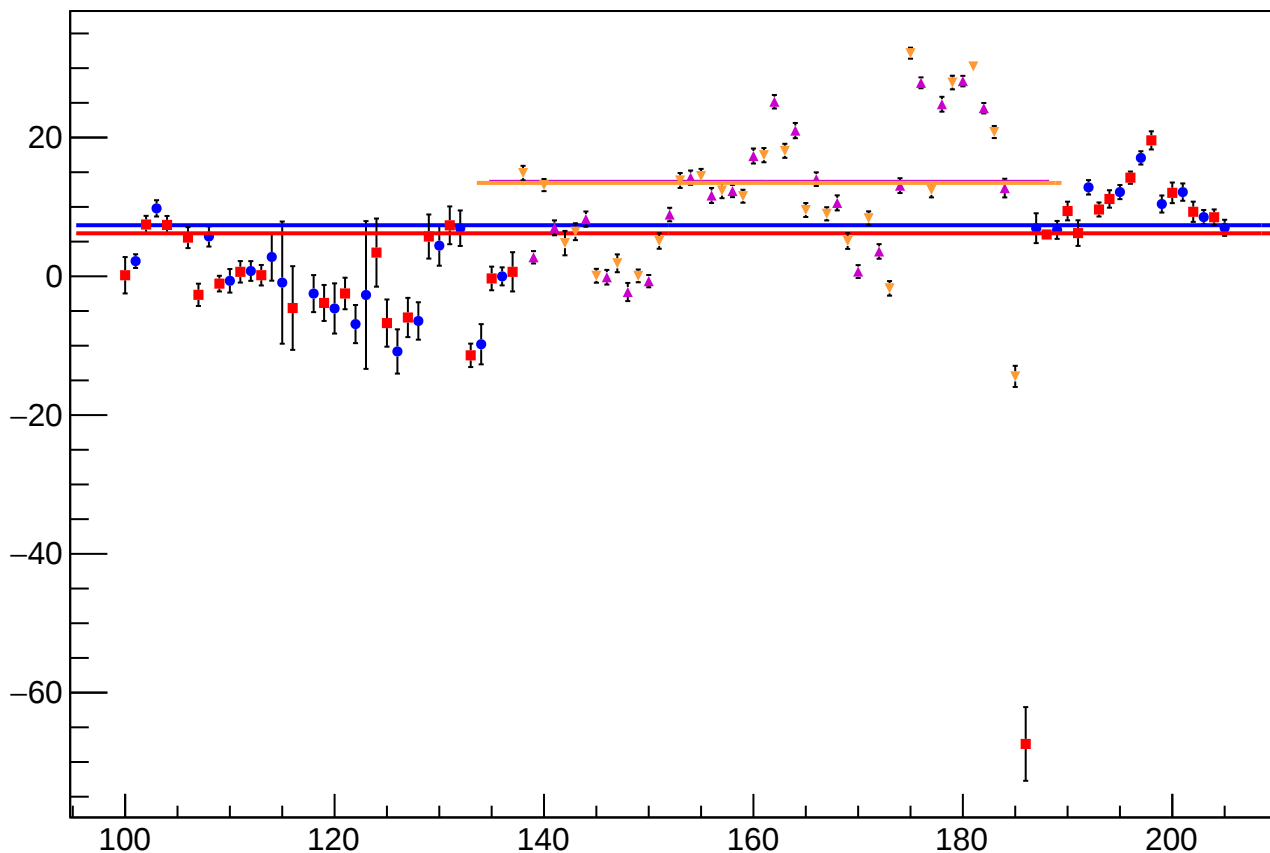
Right: 71.300+/-0.158 χ^2/NDF : 22731.6/55

In: 61.803+/-0.134 χ^2/NDF :14301.3/48

Out: 61.493+/-0.128 χ^2/NDF :17712.8/54

All: 61.641+/-0.093 χ^2/NDF : 32016.8/103

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.362 ± 0.295 χ^2/NDF : 433.5/25

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.198 ± 0.256 χ^2/NDF : 737.5/29

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

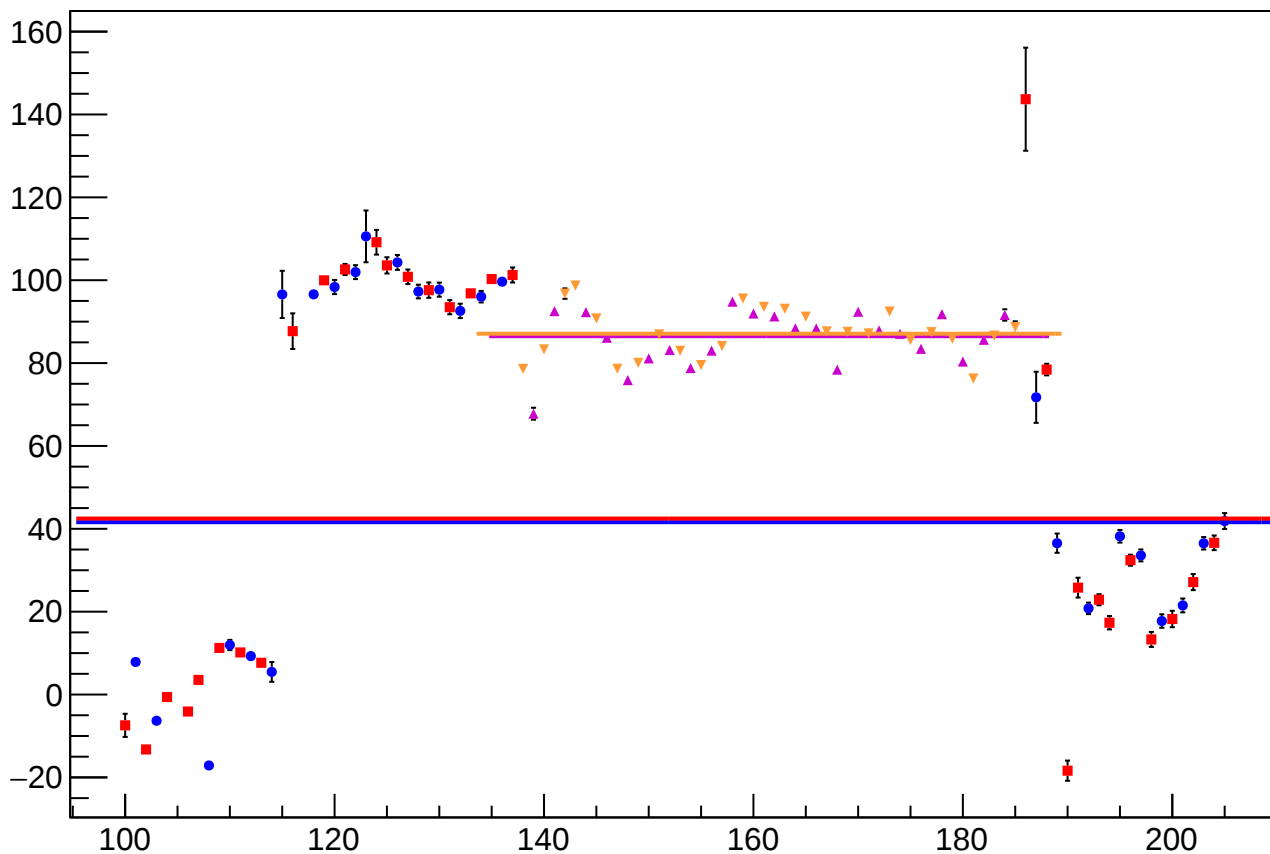
Right: 6.698 ± 0.193 χ^2/NDF : 1179.9/55

In: 11.586 ± 0.168 χ^2/NDF : 3053.4/48

Out: 10.677 ± 0.158 χ^2/NDF : 3972.1/54

All: 11.105 ± 0.115 χ^2/NDF : 7041.0/103

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.597 $\pm$ 0.269 χ^2 /NDF: 25470.5/25

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.476 $\pm$ 0.255 χ^2 /NDF: 30756.8/29

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

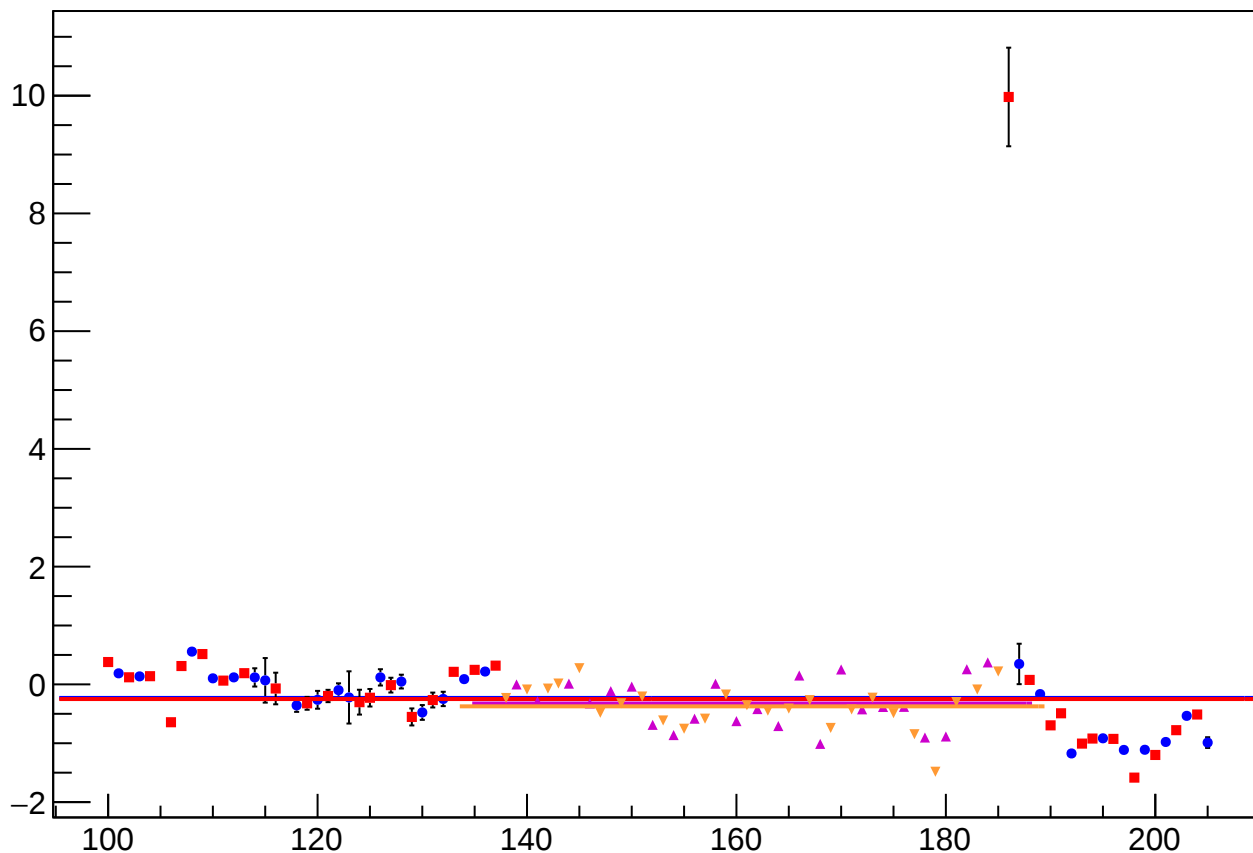
Right: 42.061 $\pm$ 0.185 χ^2 /NDF: 56233.0/55

In: 72.095 $\pm$ 0.152 χ^2 /NDF:45420.2/48

Out: 72.315 $\pm$ 0.146 χ^2 /NDF:52390.8/54

All: 72.210 $\pm$ 0.106 χ^2 /NDF: 97812.1/103

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.230 ± 0.011 χ^2/NDF : 2947.3/25

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.249 ± 0.010 χ^2/NDF : 3328.1/29

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

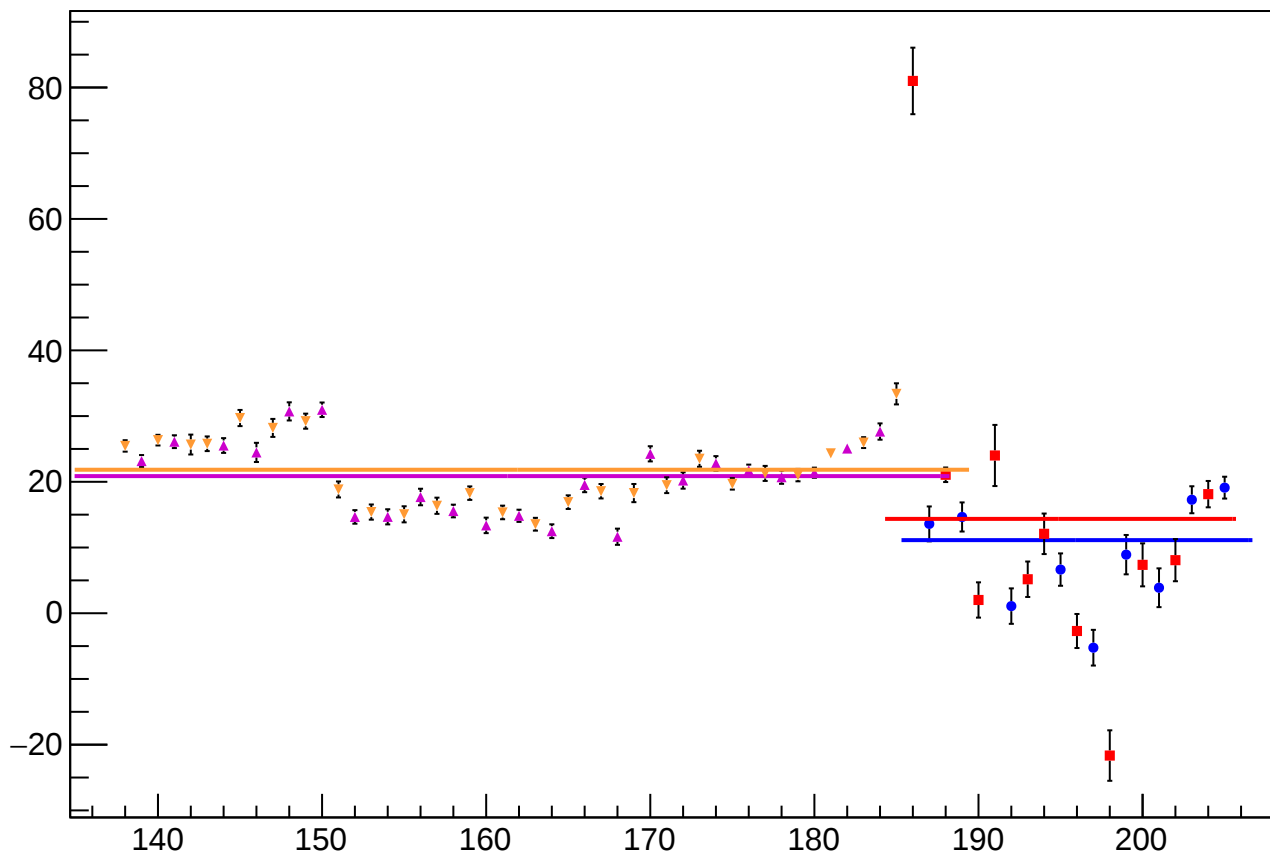
Right: -0.240 ± 0.008 χ^2/NDF : 6276.9/55

In: -0.292 ± 0.007 χ^2/NDF : 5278.7/48

Out: -0.326 ± 0.006 χ^2/NDF : 5085.8/54

All: -0.309 ± 0.005 χ^2/NDF : 10378.6/103

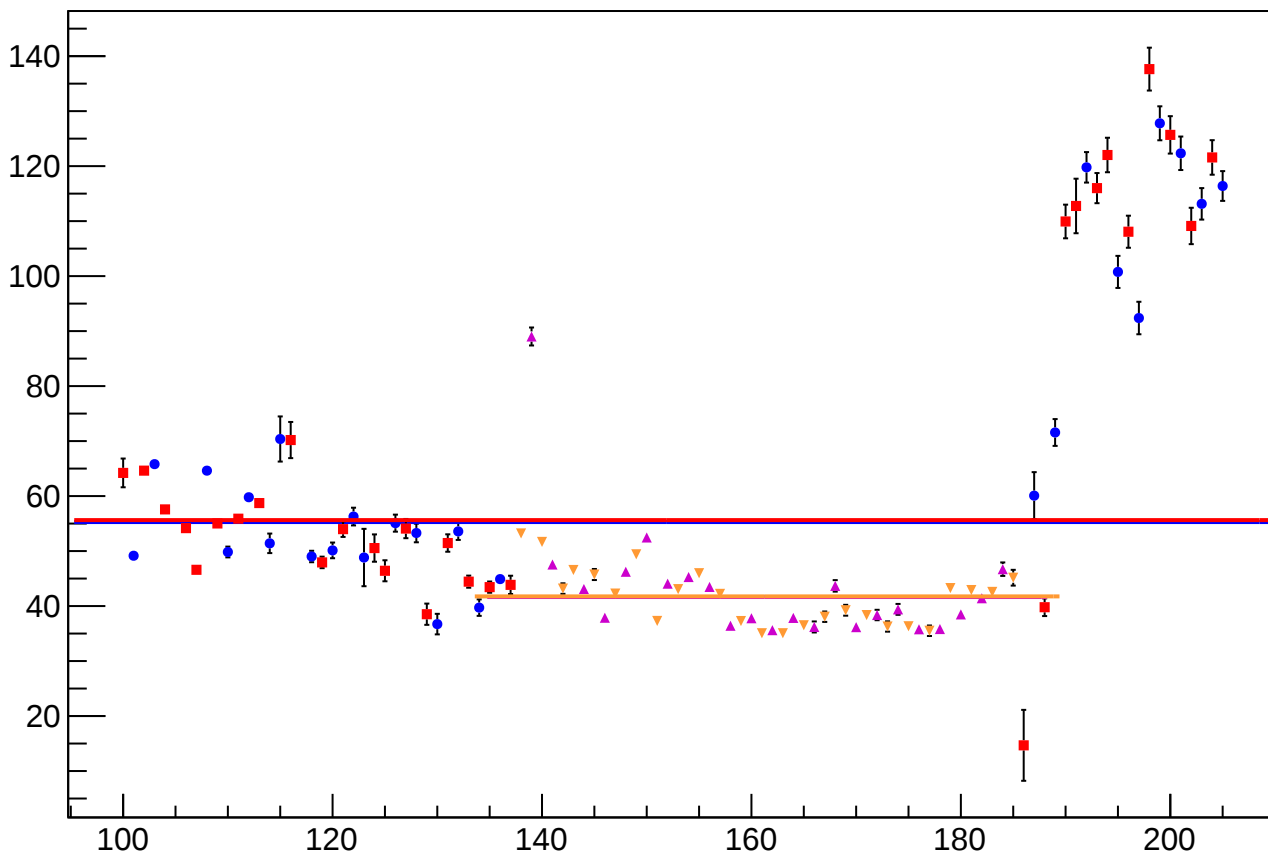
reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.124 +/- 0.788 χ^2/NDF : 95.5/8
 Left Out: 21.836 +/- 0.210 χ^2/NDF : 524.3/24
 Right Out: 14.357 +/- 0.718 χ^2/NDF : 390.9/10
 Left In: 20.866 +/- 0.217 χ^2/NDF : 576.9/22

Left: 21.366 +/- 0.151 χ^2/NDF : 1111.6/47
 Right: 12.891 +/- 0.531 χ^2/NDF : 495.5/19
 In: 20.182 +/- 0.209 χ^2/NDF : 814.3/31
 Out: 21.248 +/- 0.201 χ^2/NDF : 1015.1/35
 All: 20.734 +/- 0.145 χ^2/NDF : 1843.0/67

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 55.277 $\pm$ 0.206 χ^2 /NDF: 4258.6/25

Left Out: 41.757 $\pm$ 0.165 χ^2 /NDF:1015.7/24

Right Out: 55.630 $\pm$ 0.220 χ^2 /NDF: 4391.7/29

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

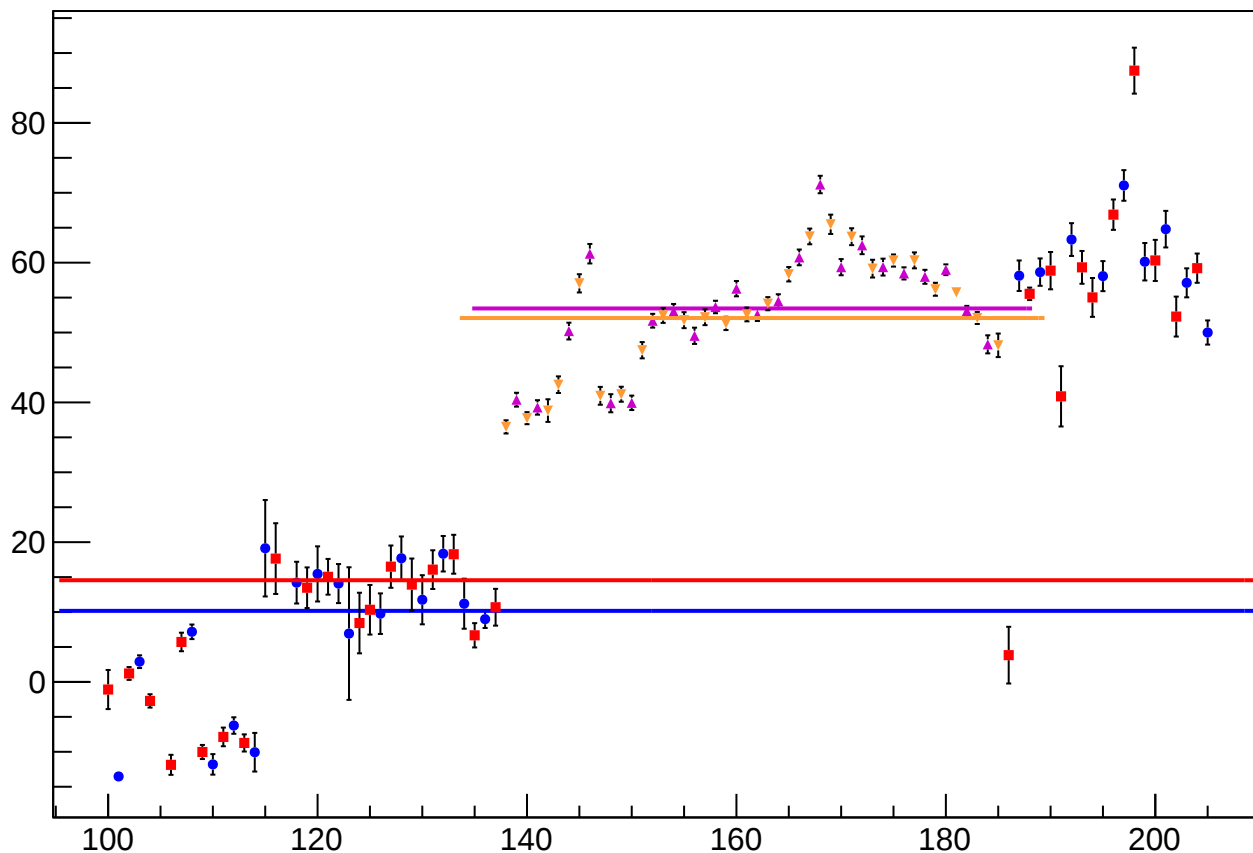
Right: 55.442 $\pm$ 0.150 χ^2 /NDF: 8651.7/55

In: 47.303 $\pm$ 0.133 χ^2 /NDF:8425.1/48

Out: 46.770 $\pm$ 0.132 χ^2 /NDF:7950.7/54

All: 47.035 $\pm$ 0.094 χ^2 /NDF: 16383.9/103

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 10.169 $\pm$ 0.325 χ^2 /NDF: 6724.6/25

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 14.553 $\pm$ 0.322 χ^2 /NDF: 7163.5/29

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

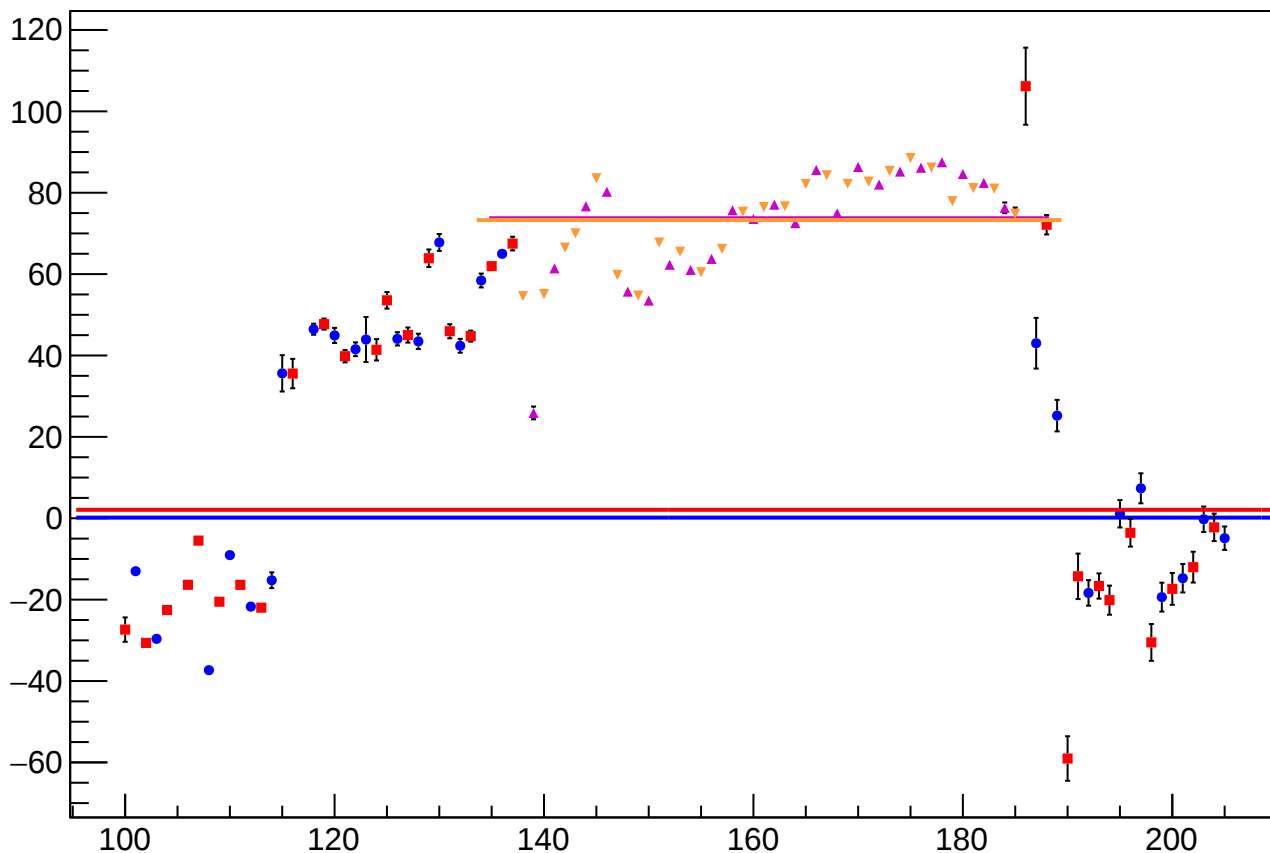
Right: 12.380 $\pm$ 0.229 χ^2 /NDF: 13979.7/55

In: 40.260 $\pm$ 0.180 χ^2 /NDF:20199.8/48

Out: 40.900 $\pm$ 0.176 χ^2 /NDF:18123.5/54

All: 40.586 $\pm$ 0.126 χ^2 /NDF: 38329.8/103

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.158+/-0.242 χ^2/NDF : 18399.7/25

Left Out: 73.284+/-0.187 χ^2/NDF :3144.2/24

Right Out: 2.079+/-0.260 χ^2/NDF : 16701.6/29

Left In: 73.730+/-0.194 χ^2/NDF :3775.8/22

Left: 73.498+/-0.135 χ^2/NDF : 6922.7/47

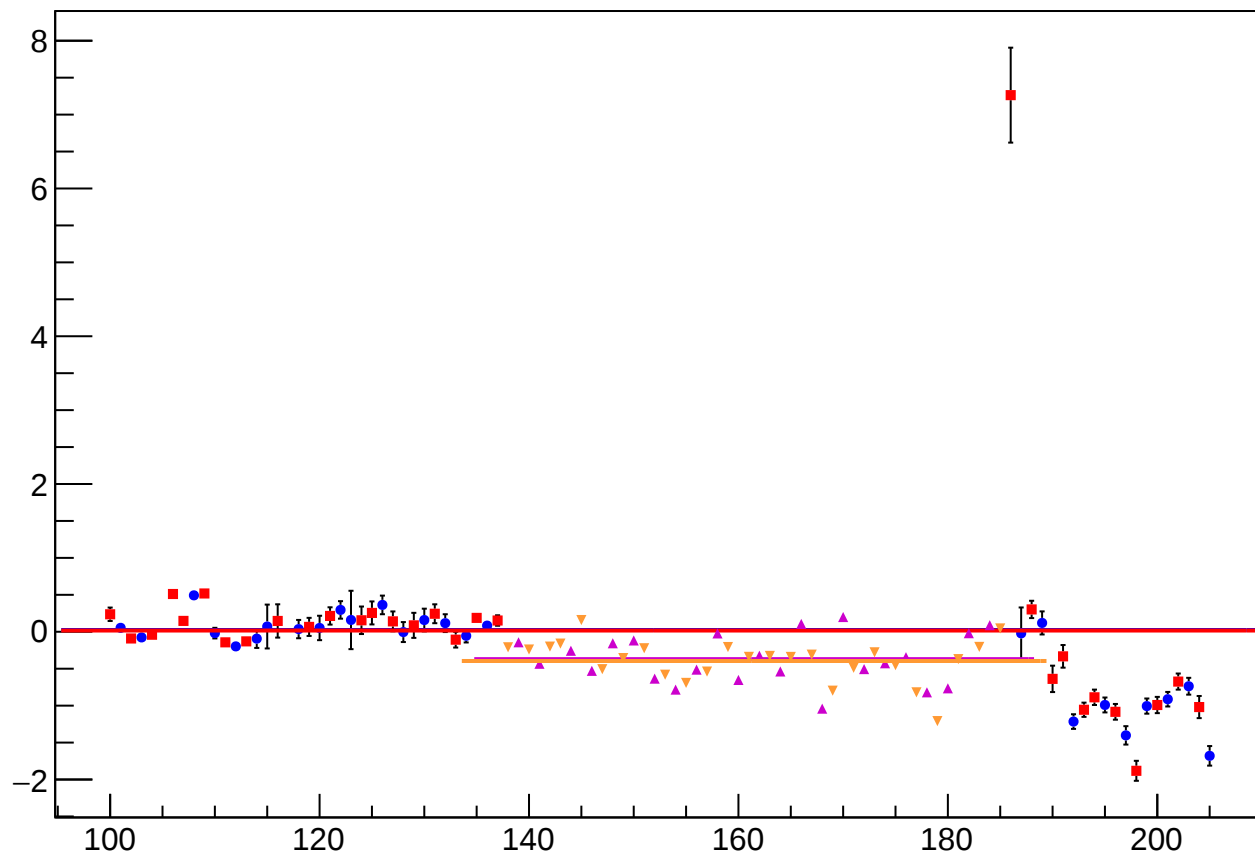
Right: 1.052+/-0.177 χ^2/NDF : 35130.5/55

In: 44.917+/-0.152 χ^2/NDF :78306.4/48

Out: 48.980+/-0.152 χ^2/NDF :69416.2/54

All: 46.947+/-0.107 χ^2/NDF : 148081.6/103

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.024 ± 0.011 $\chi^2/\text{NDF}: 1244.9/25$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: 0.017 ± 0.011 $\chi^2/\text{NDF}: 1259.2/29$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

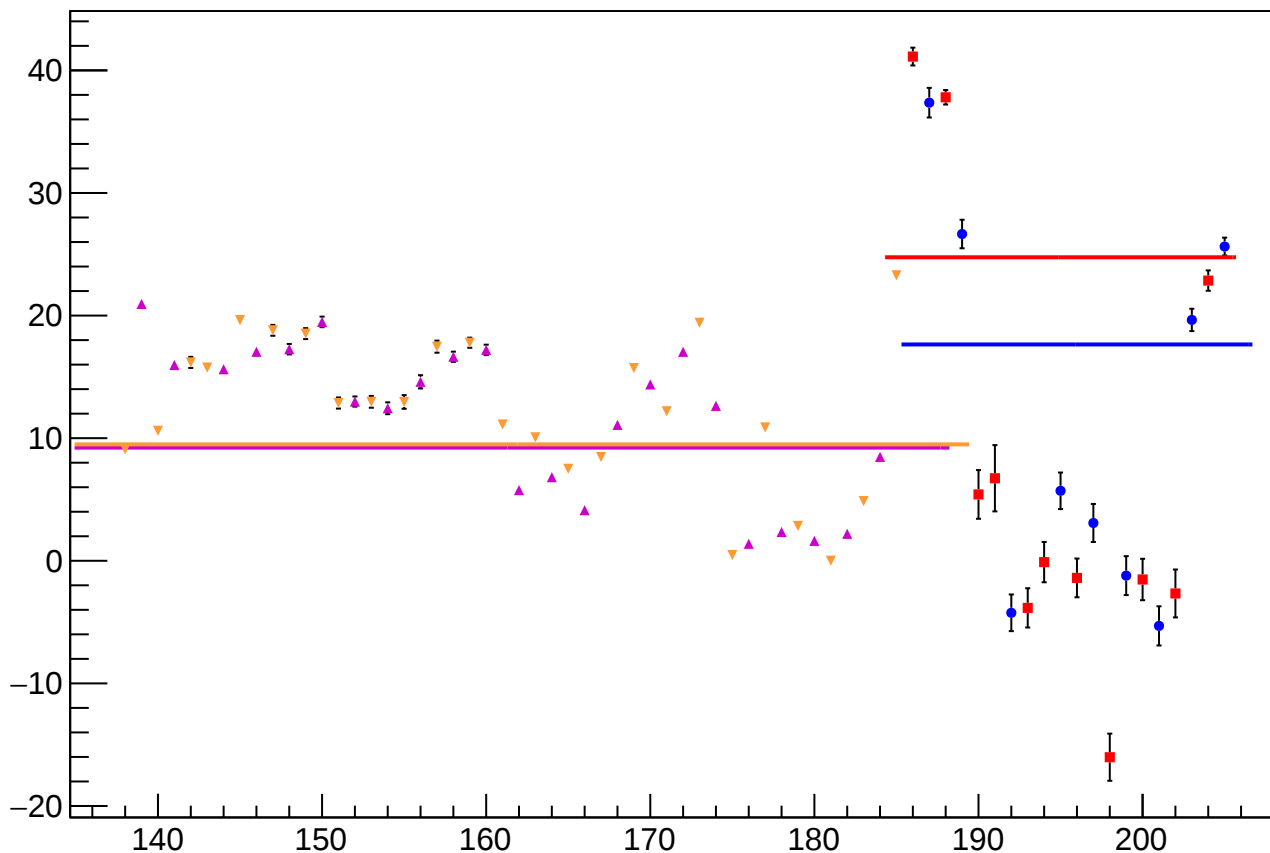
Right: 0.020 ± 0.007 $\chi^2/\text{NDF}: 2504.3/55$

In: -0.212 ± 0.007 $\chi^2/\text{NDF}: 3382.3/48$

Out: -0.233 ± 0.007 $\chi^2/\text{NDF}: 3129.4/54$

All: -0.223 ± 0.005 $\chi^2/\text{NDF}: 6516.3/103$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 17.645 ± 0.389 χ^2/NDF : 1165.3/8

Left Out: 9.495 ± 0.061 χ^2/NDF : 12609.1/24

Right Out: 24.755 ± 0.340 χ^2/NDF : 2849.9/10

Left In: 9.231 ± 0.063 χ^2/NDF : 10736.2/22

Left: 9.367 ± 0.044 χ^2/NDF : 23354.3/47

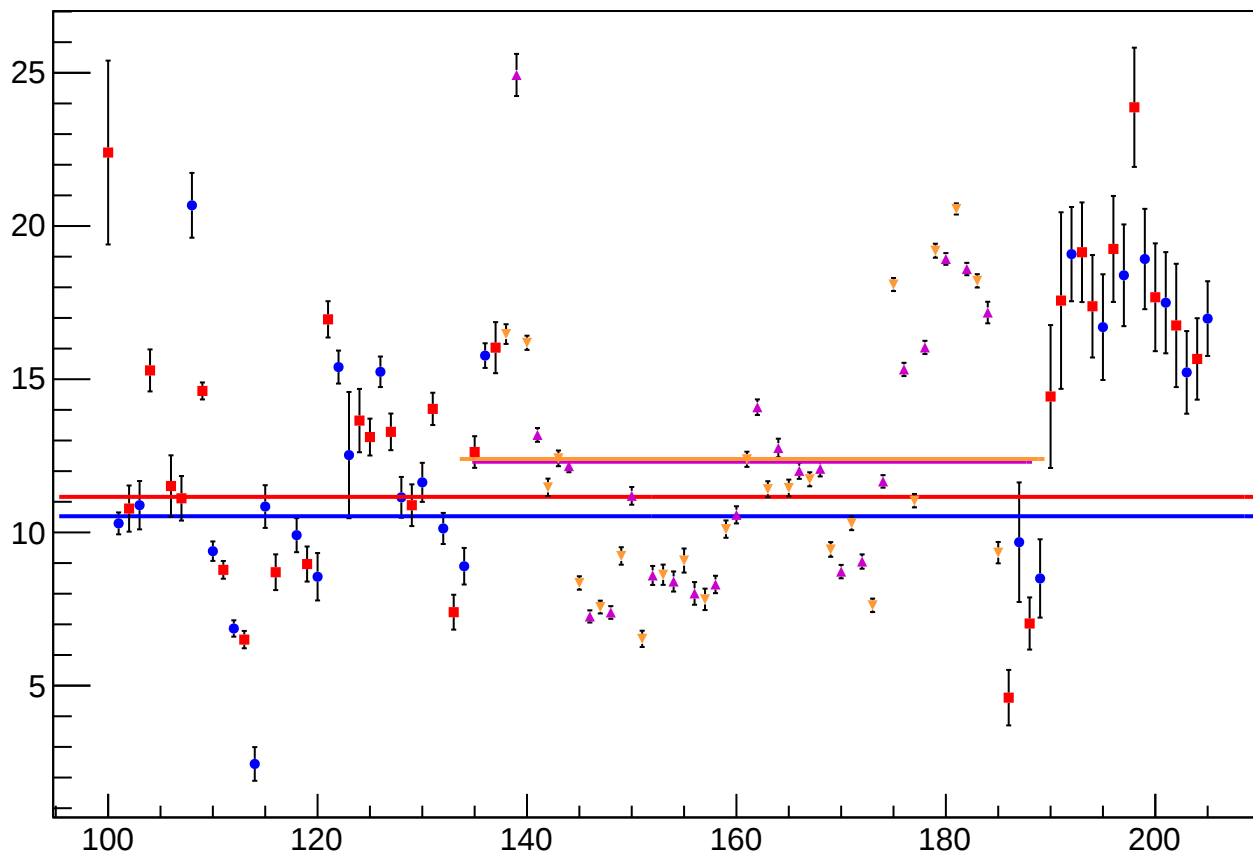
Right: 21.671 ± 0.256 χ^2/NDF : 4204.7/19

In: 9.447 ± 0.062 χ^2/NDF : 12358.0/31

Out: 9.974 ± 0.060 χ^2/NDF : 17407.7/35

All: 9.718 ± 0.043 χ^2/NDF : 29802.7/67

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.528 $\pm$ 0.116 χ^2 /NDF: 1024.7/25

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.161 $\pm$ 0.112 χ^2 /NDF: 1035.3/29

Left In: 12.307 $\pm$ 0.051 χ^2 /NDF: 5601.8/22

Left: 12.353 $\pm$ 0.036 χ^2 /NDF: 13146.3/47

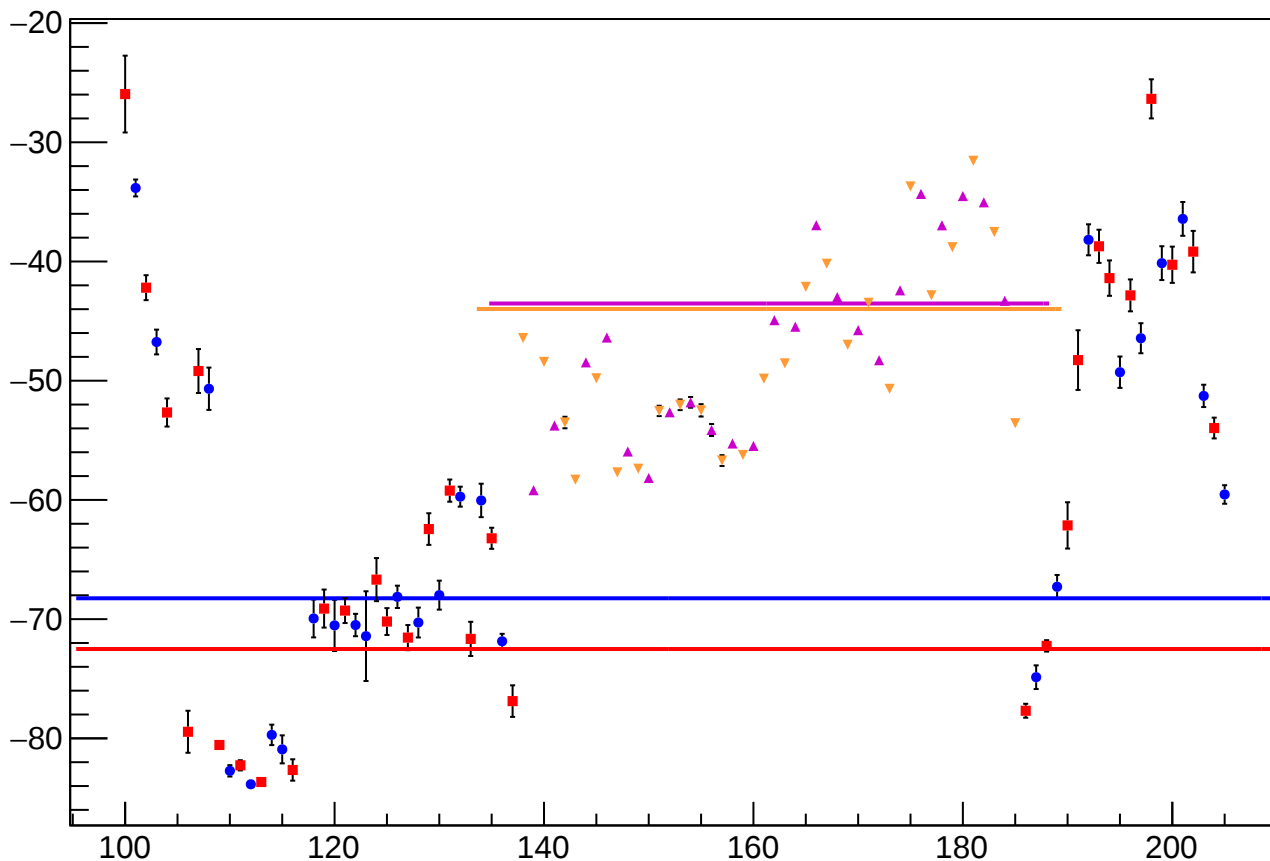
Right: 10.855 $\pm$ 0.081 χ^2 /NDF: 2075.3/55

In: 12.018 $\pm$ 0.047 χ^2 /NDF: 6822.2/48

Out: 12.195 $\pm$ 0.045 χ^2 /NDF: 8679.2/54

All: 12.109 $\pm$ 0.033 χ^2 /NDF: 15508.8/103

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -68.251 ± 0.174 $\chi^2/\text{NDF}: 8396.6/25$

Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$

Right Out: -72.506 ± 0.154 $\chi^2/\text{NDF}: 7618.5/29$

Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$

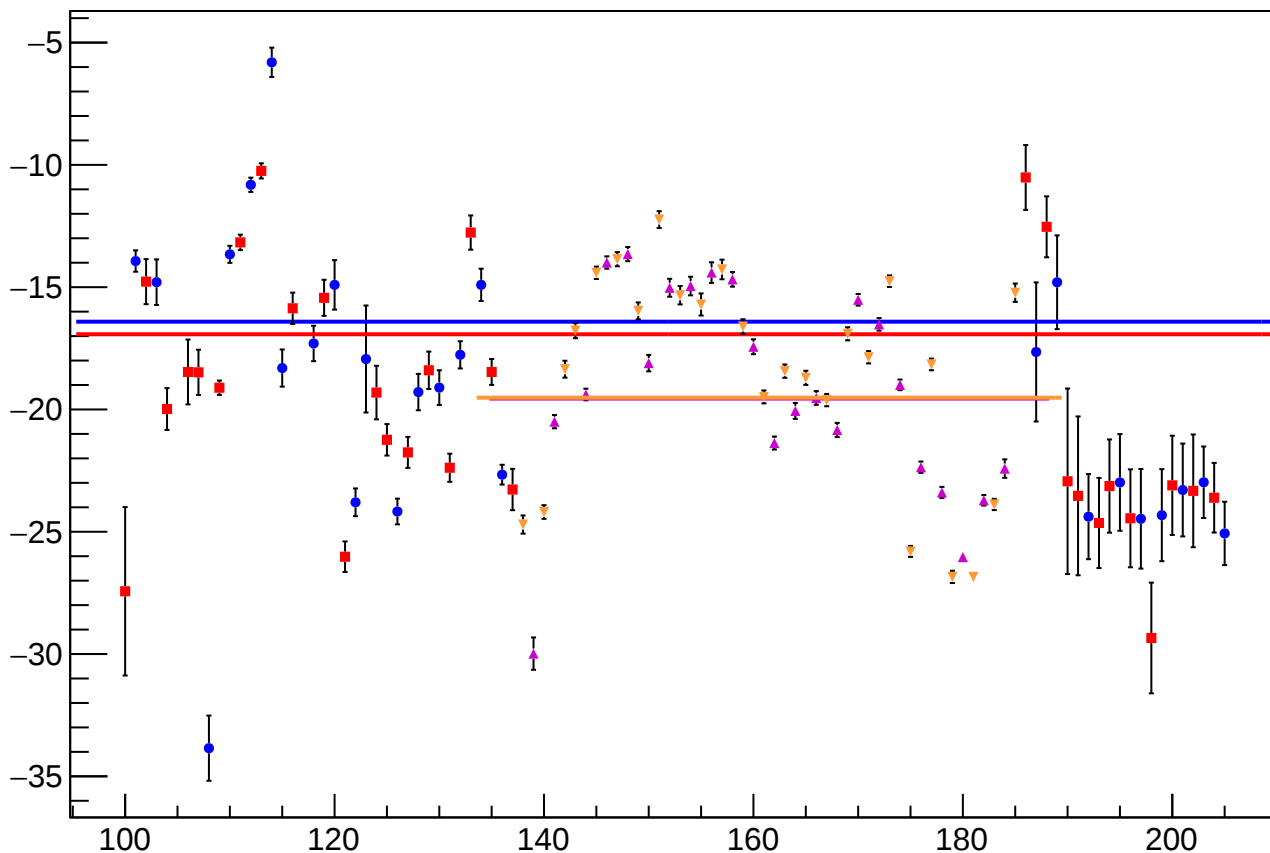
Right: -70.638 ± 0.115 $\chi^2/\text{NDF}: 16350.5/55$

In: -46.414 ± 0.060 $\chi^2/\text{NDF}: 41492.5/48$

Out: -47.955 ± 0.057 $\chi^2/\text{NDF}: 54899.8/54$

All: -47.211 ± 0.041 $\chi^2/\text{NDF}: 96739.3/103$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected

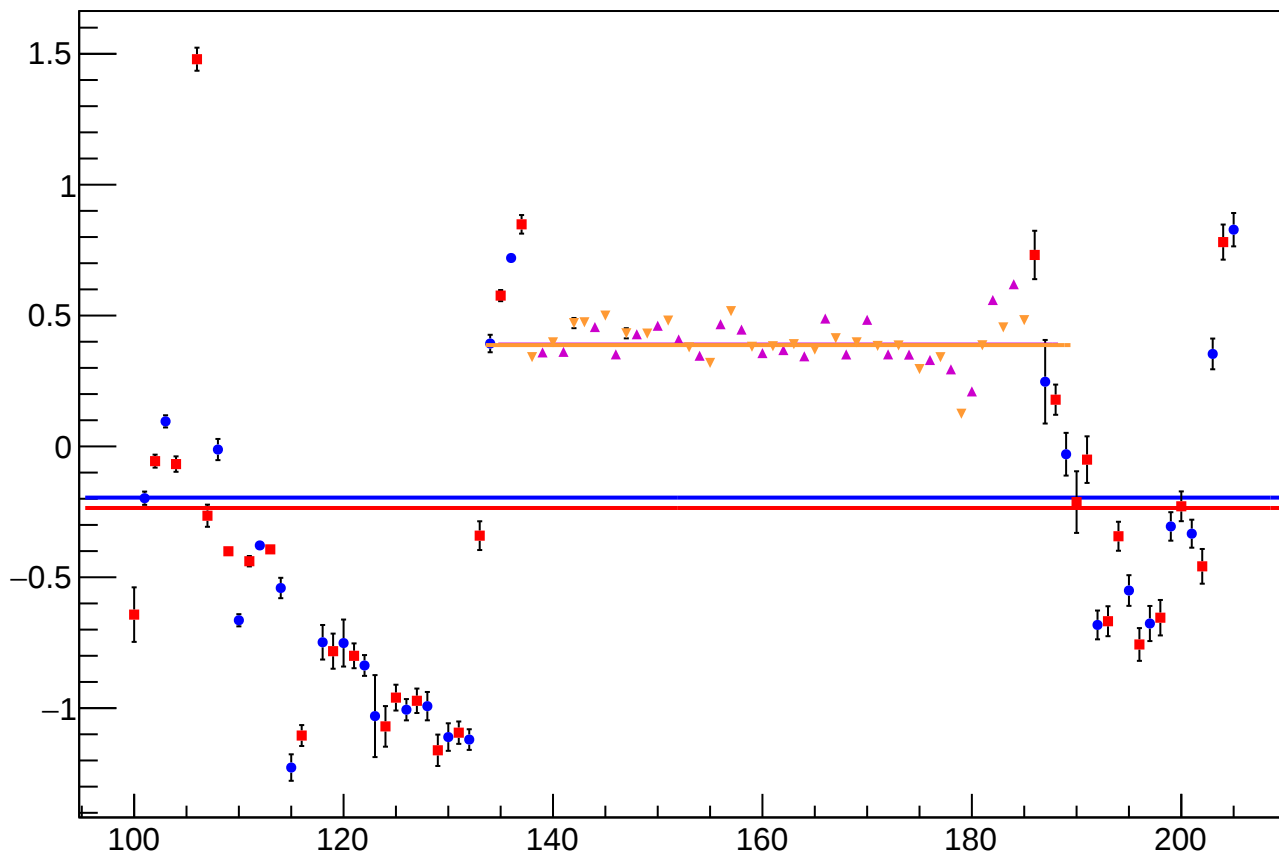


Right In: -16.411 ± 0.130 $\chi^2/\text{NDF}: 1770.9/25$
 Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$
 Right Out: -16.925 ± 0.125 $\chi^2/\text{NDF}: 1366.4/29$
 Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$
 Right: -16.677 ± 0.090 $\chi^2/\text{NDF}: 3145.5/55$
 In: -19.040 ± 0.052 $\chi^2/\text{NDF}: 6574.1/48$
 Out: -19.087 ± 0.051 $\chi^2/\text{NDF}: 8243.5/54$

All: -19.064 ± 0.037 $\chi^2/\text{NDF}: 14818.0/103$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.196 ± 0.007 χ^2/NDF : 6850.9/25

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.235 ± 0.007 χ^2/NDF : 6751.4/29

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

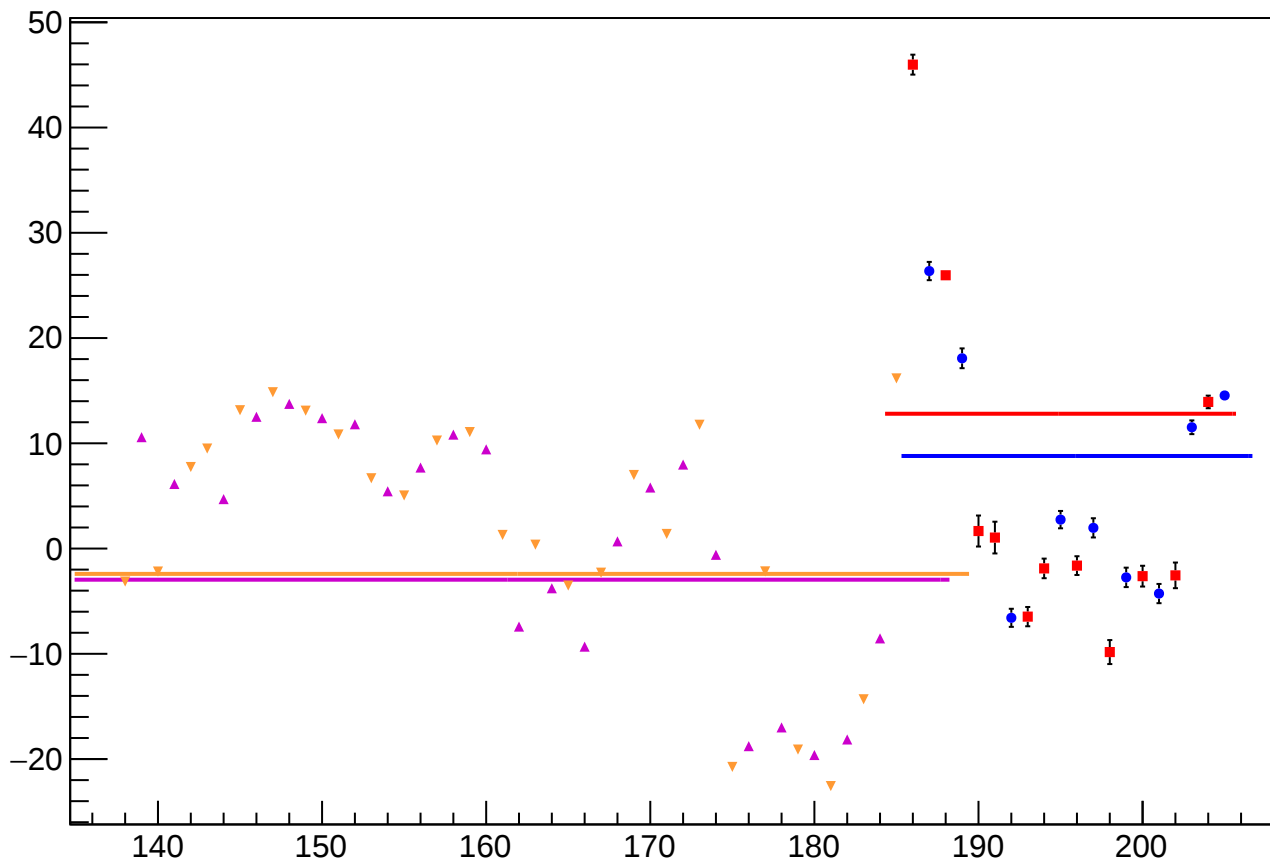
Right: -0.216 ± 0.005 χ^2/NDF : 13618.6/55

In: 0.319 ± 0.002 χ^2/NDF : 14059.3/48

Out: 0.309 ± 0.002 χ^2/NDF : 15151.8/54

All: 0.314 ± 0.002 χ^2/NDF : 29219.7/103

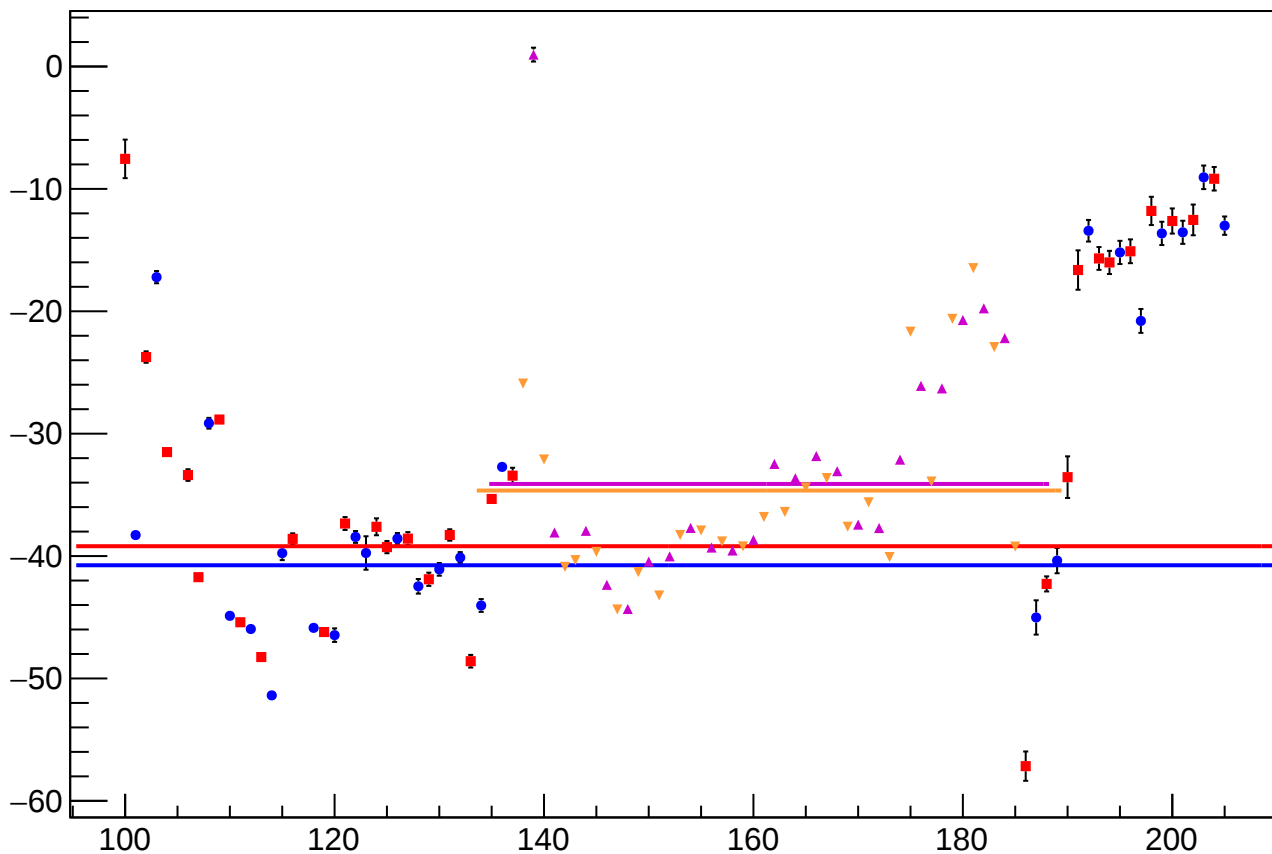
reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.795 ± 0.251 $\chi^2/\text{NDF}: 1469.7/8$
 Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$
 Right Out: 12.808 ± 0.247 $\chi^2/\text{NDF}: 4044.6/10$
 Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$
 Right: 10.830 ± 0.176 $\chi^2/\text{NDF}: 5644.0/19$
 In: -2.423 ± 0.054 $\chi^2/\text{NDF}: 49485.3/31$
 Out: -1.745 ± 0.052 $\chi^2/\text{NDF}: 64029.9/35$
 All: -2.071 ± 0.037 $\chi^2/\text{NDF}: 113598.4/67$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -40.751 $\pm$ 0.076 χ^2/NDF : 13075.5/25

Left Out: -34.646 $\pm$ 0.042 χ^2/NDF : 34674.7/24

Right Out: -39.195 $\pm$ 0.071 χ^2/NDF : 16427.4/29

Left In: -34.108 $\pm$ 0.044 χ^2/NDF : 29052.8/22

Left: -34.390 $\pm$ 0.030 χ^2/NDF : 63806.0/47

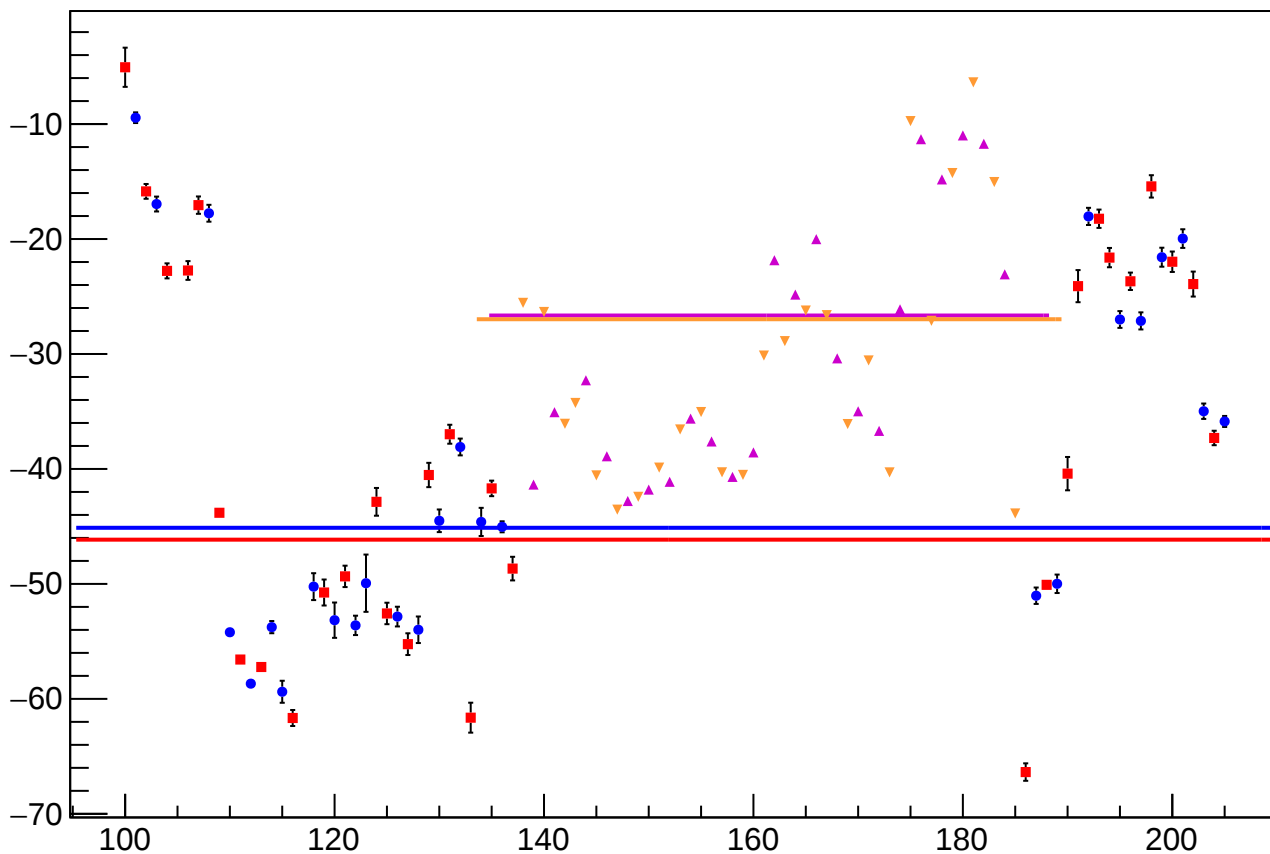
Right: -39.919 $\pm$ 0.052 χ^2/NDF : 29727.8/55

In: -35.777 $\pm$ 0.038 χ^2/NDF : 47865.2/48

Out: -35.820 $\pm$ 0.036 χ^2/NDF : 54163.3/54

All: -35.800 $\pm$ 0.026 χ^2/NDF : 102029.3/103

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.118 ± 0.110 $\chi^2/\text{NDF}: 20497.4/25$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -46.151 ± 0.096 $\chi^2/\text{NDF}: 18479.4/29$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

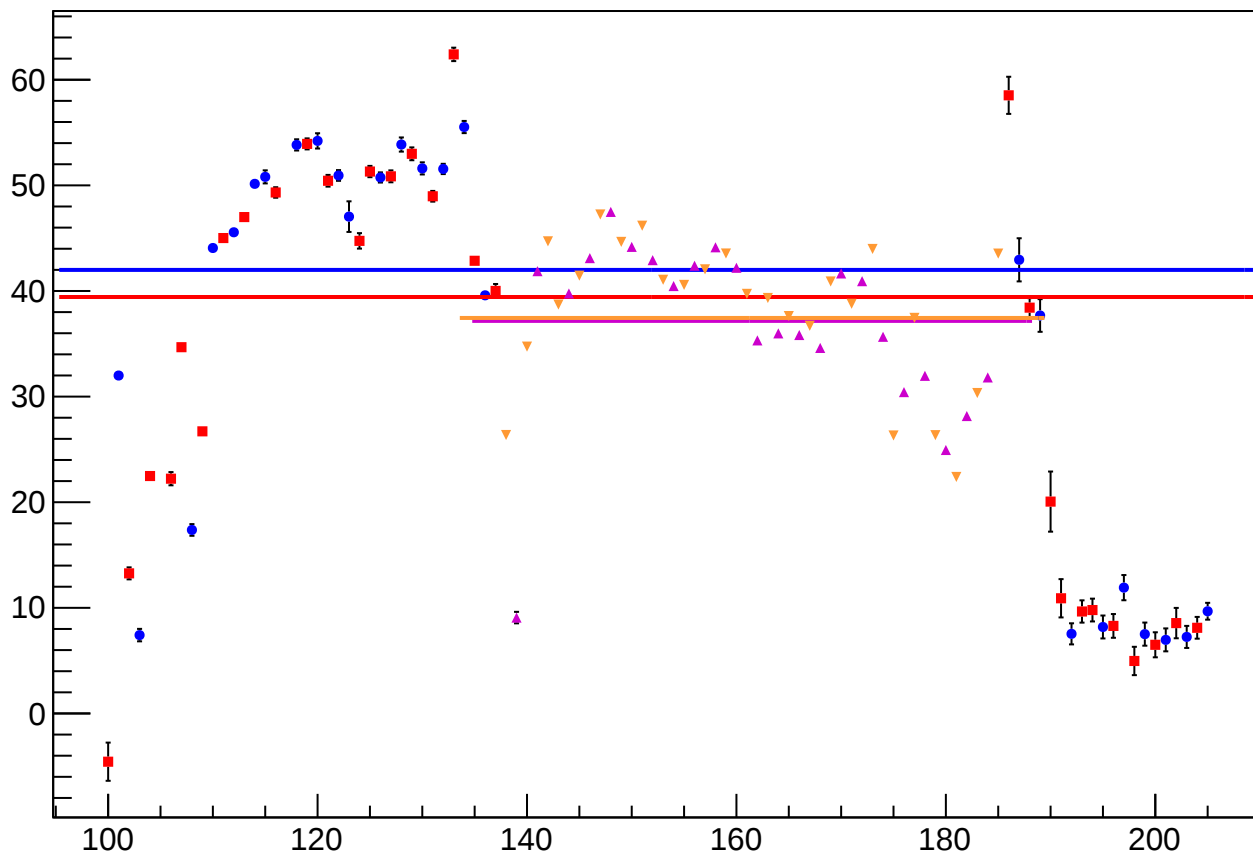
Right: -45.704 ± 0.072 $\chi^2/\text{NDF}: 39026.8/55$

In: -30.344 ± 0.049 $\chi^2/\text{NDF}: 85180.1/48$

Out: -31.478 ± 0.047 $\chi^2/\text{NDF}: 98339.5/54$

All: -30.942 ± 0.034 $\chi^2/\text{NDF}: 183800.5/103$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.996 $\pm$ 0.085 χ^2 /NDF: 18542.9/25

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF: 21570.6/24

Right Out: 39.430 $\pm$ 0.078 χ^2 /NDF: 23311.9/29

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

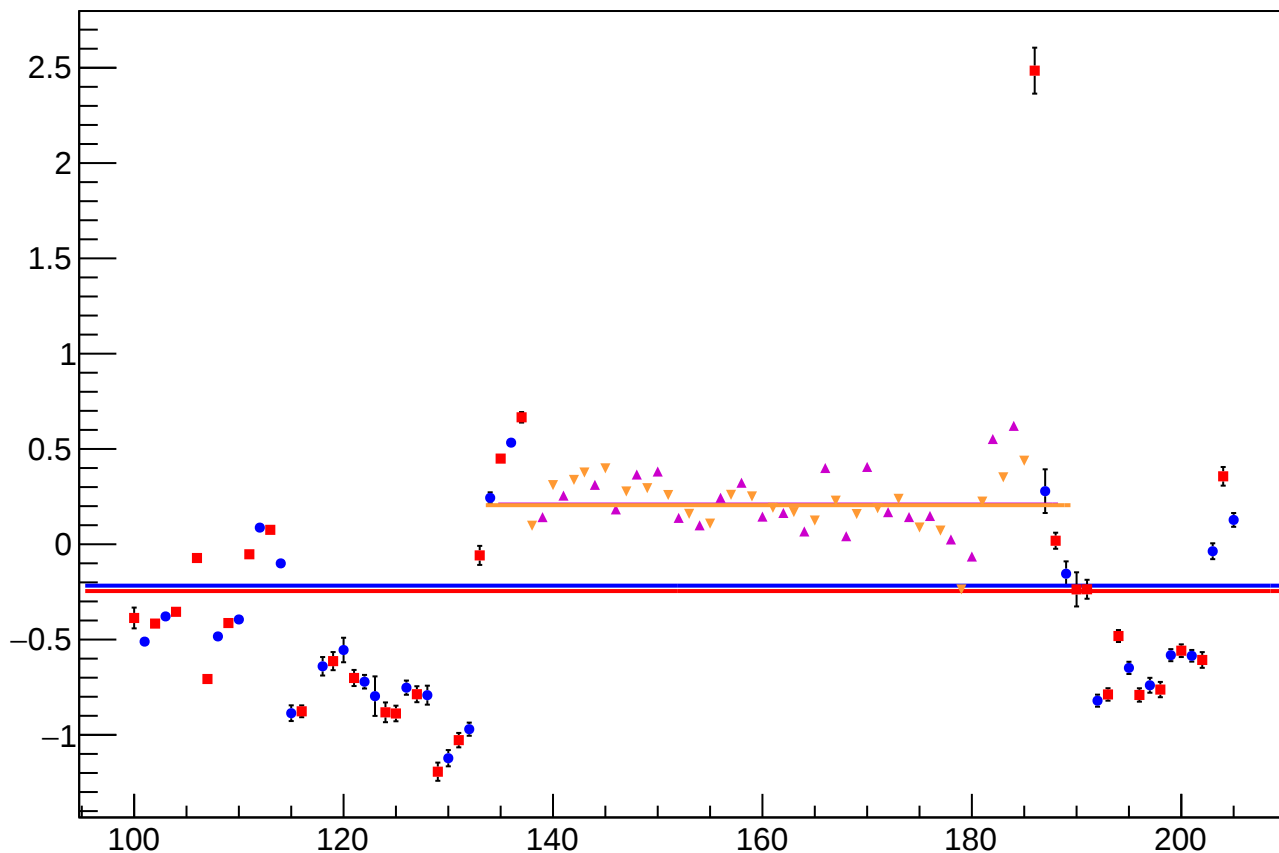
Right: 40.615 $\pm$ 0.058 χ^2 /NDF: 42348.7/55

In: 38.390 $\pm$ 0.043 χ^2 /NDF: 38206.5/48

Out: 37.973 $\pm$ 0.040 χ^2 /NDF: 45352.3/54

All: 38.171 $\pm$ 0.029 χ^2 /NDF: 83609.1/103

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.217 ± 0.005 χ^2/NDF : 8552.9/25

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.246 ± 0.004 χ^2/NDF : 9060.3/29

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

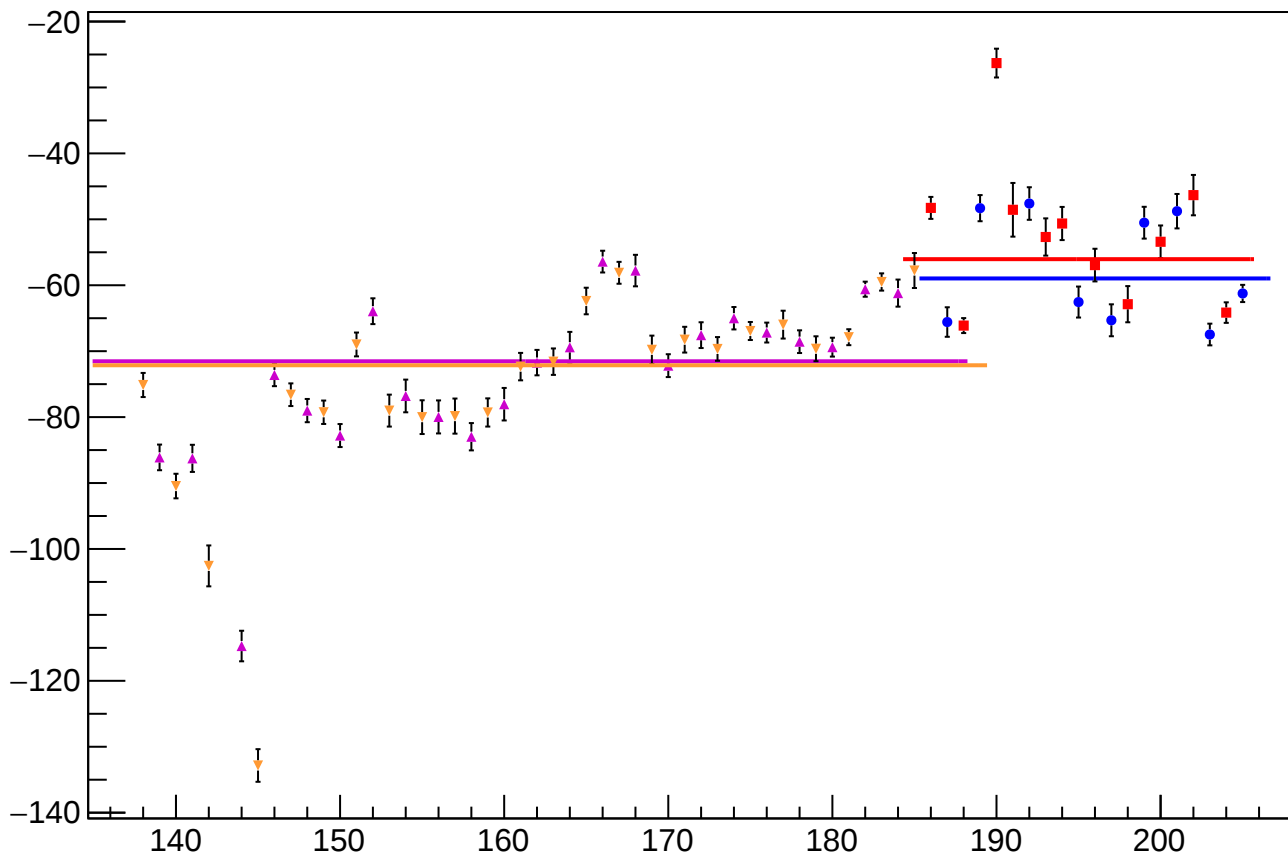
Right: -0.233 ± 0.003 χ^2/NDF : 17635.1/55

In: 0.124 ± 0.002 χ^2/NDF : 20752.7/48

Out: 0.105 ± 0.002 χ^2/NDF : 22429.2/54

All: 0.114 ± 0.001 χ^2/NDF : 43230.2/103

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -58.969 ± 0.668 $\chi^2/\text{NDF}: 125.2/8$
 Left Out: -72.138 ± 0.383 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -56.043 ± 0.612 $\chi^2/\text{NDF}: 339.8/10$
 Left In: -71.534 ± 0.382 $\chi^2/\text{NDF}: 851.4/22$

Left: -71.835 ± 0.270 $\chi^2/\text{NDF}: 1974.0/46$

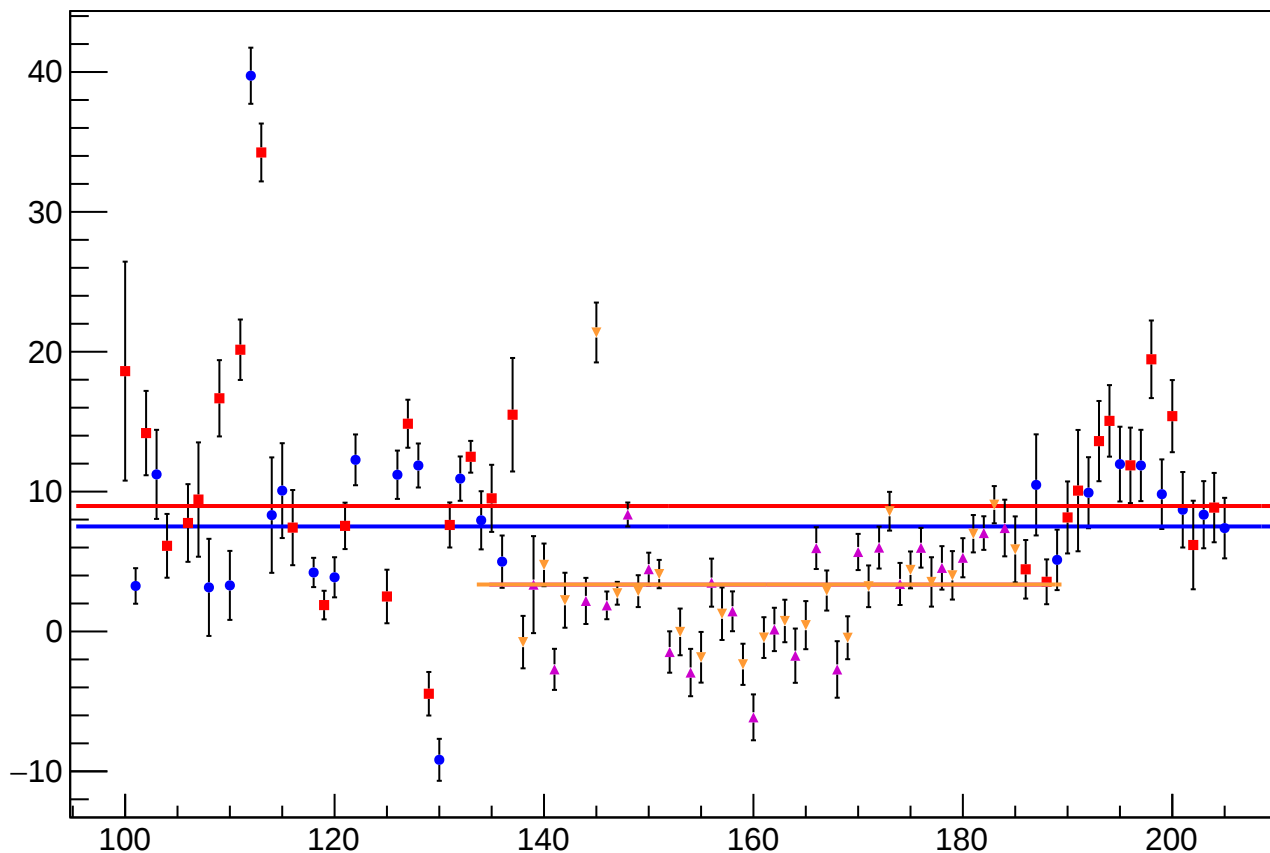
Right: -57.379 ± 0.451 $\chi^2/\text{NDF}: 475.5/19$

In: -68.439 ± 0.331 $\chi^2/\text{NDF}: 1243.6/31$

Out: -67.613 ± 0.325 $\chi^2/\text{NDF}: 1958.0/34$

All: -68.018 ± 0.232 $\chi^2/\text{NDF}: 3204.8/66$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.508 ± 0.390 χ^2/NDF : 450.9/24

Left Out: 3.357 ± 0.295 χ^2/NDF : 167.7/23

Right Out: 8.969 ± 0.385 χ^2/NDF : 396.8/28

Left In: 3.349 ± 0.298 χ^2/NDF : 163.5/22

Left: 3.353 ± 0.210 χ^2/NDF : 331.2/46

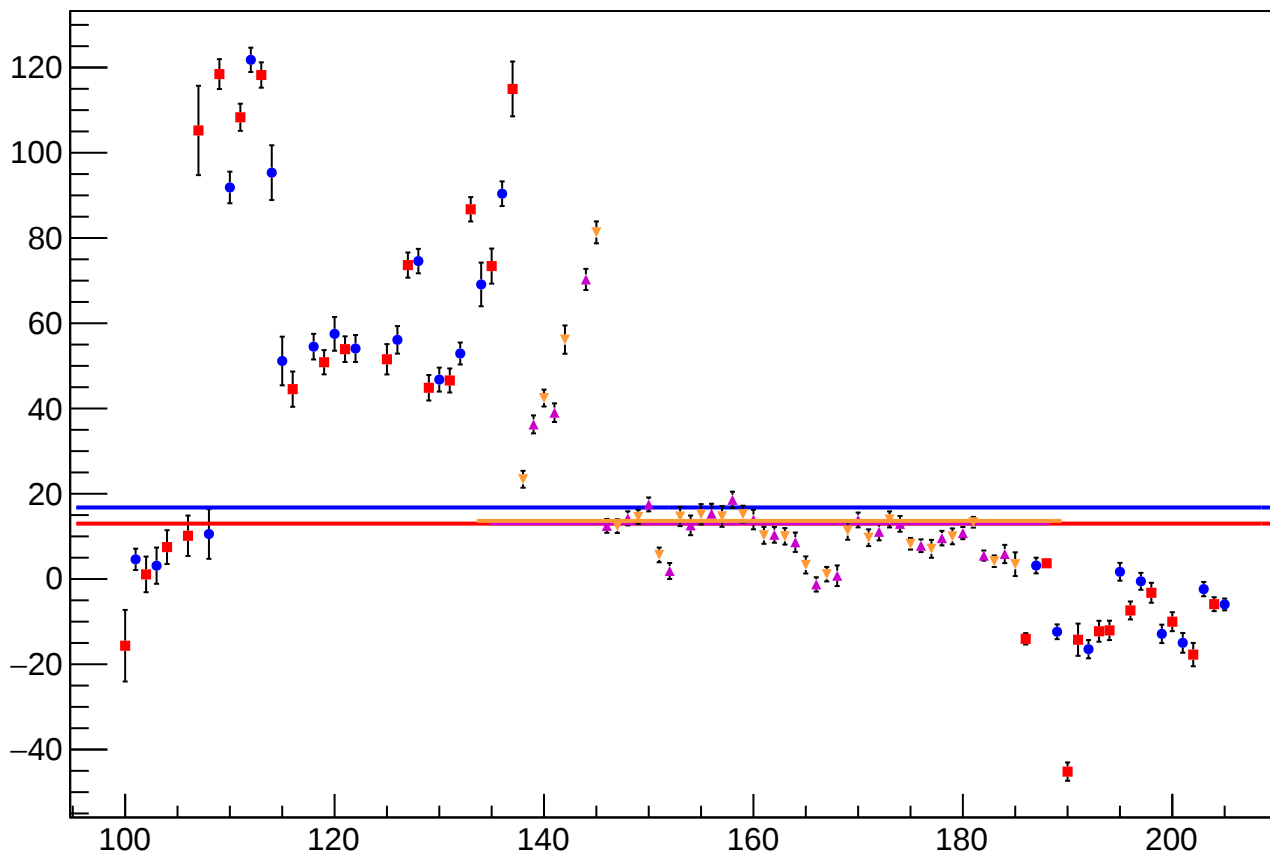
Right: 8.247 ± 0.274 χ^2/NDF : 854.8/53

In: 4.885 ± 0.237 χ^2/NDF : 686.3/47

Out: 5.431 ± 0.234 χ^2/NDF : 698.4/52

All: 5.161 ± 0.166 χ^2/NDF : 1387.4/100

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 16.782 $\pm$ 0.498 χ^2 /NDF: 5489.1/24

Left Out: 13.632 $\pm$ 0.382 χ^2 /NDF:1300.0/23

Right Out: 12.999 $\pm$ 0.451 χ^2 /NDF: 7530.4/28

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

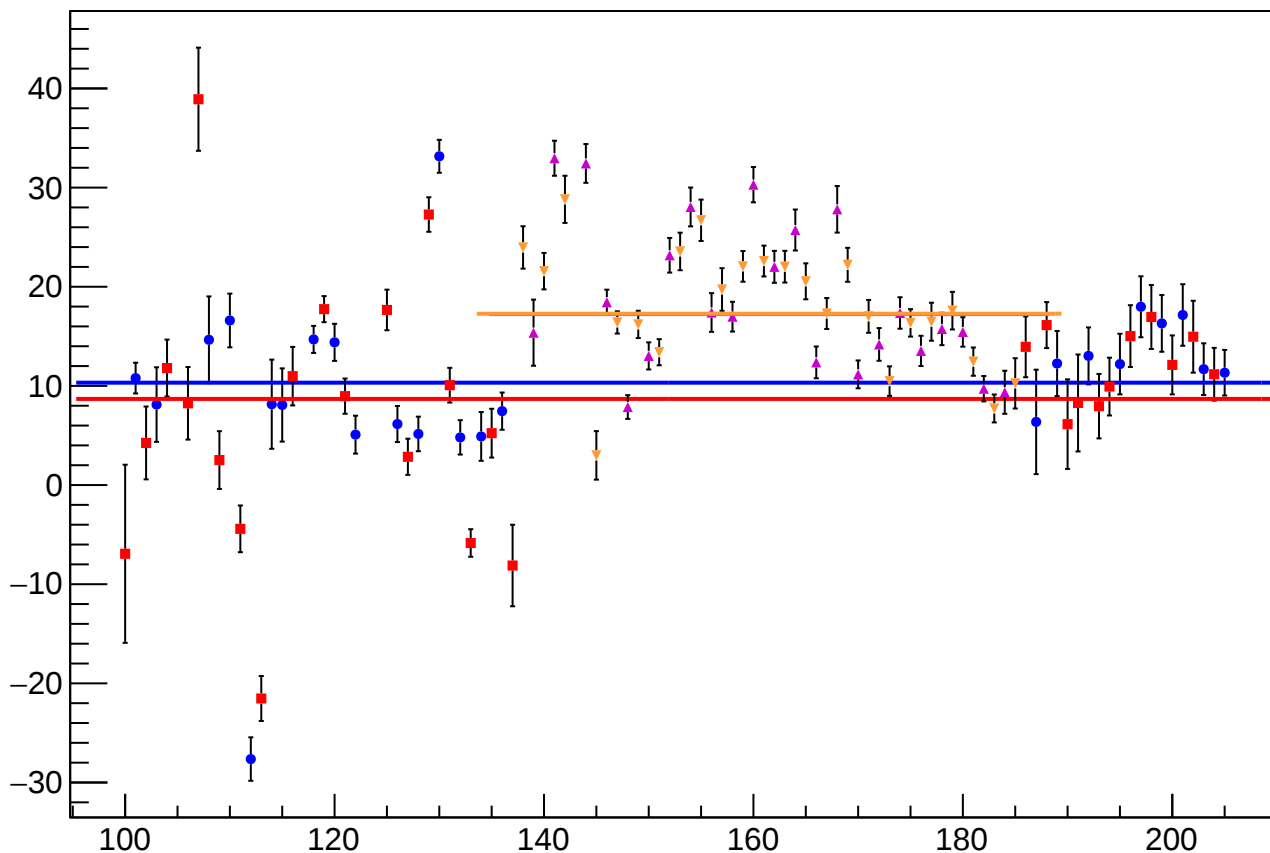
Right: 14.703 $\pm$ 0.334 χ^2 /NDF: 13051.1/53

In: 14.426 $\pm$ 0.302 χ^2 /NDF:6549.1/47

Out: 13.368 $\pm$ 0.291 χ^2 /NDF:8831.5/52

All: 13.878 $\pm$ 0.210 χ^2 /NDF: 15387.0/100

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.325 $\pm$ 0.452 χ^2 /NDF: 567.9/24

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF:243.9/23

Right Out: 8.686 $\pm$ 0.453 χ^2 /NDF: 602.1/28

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

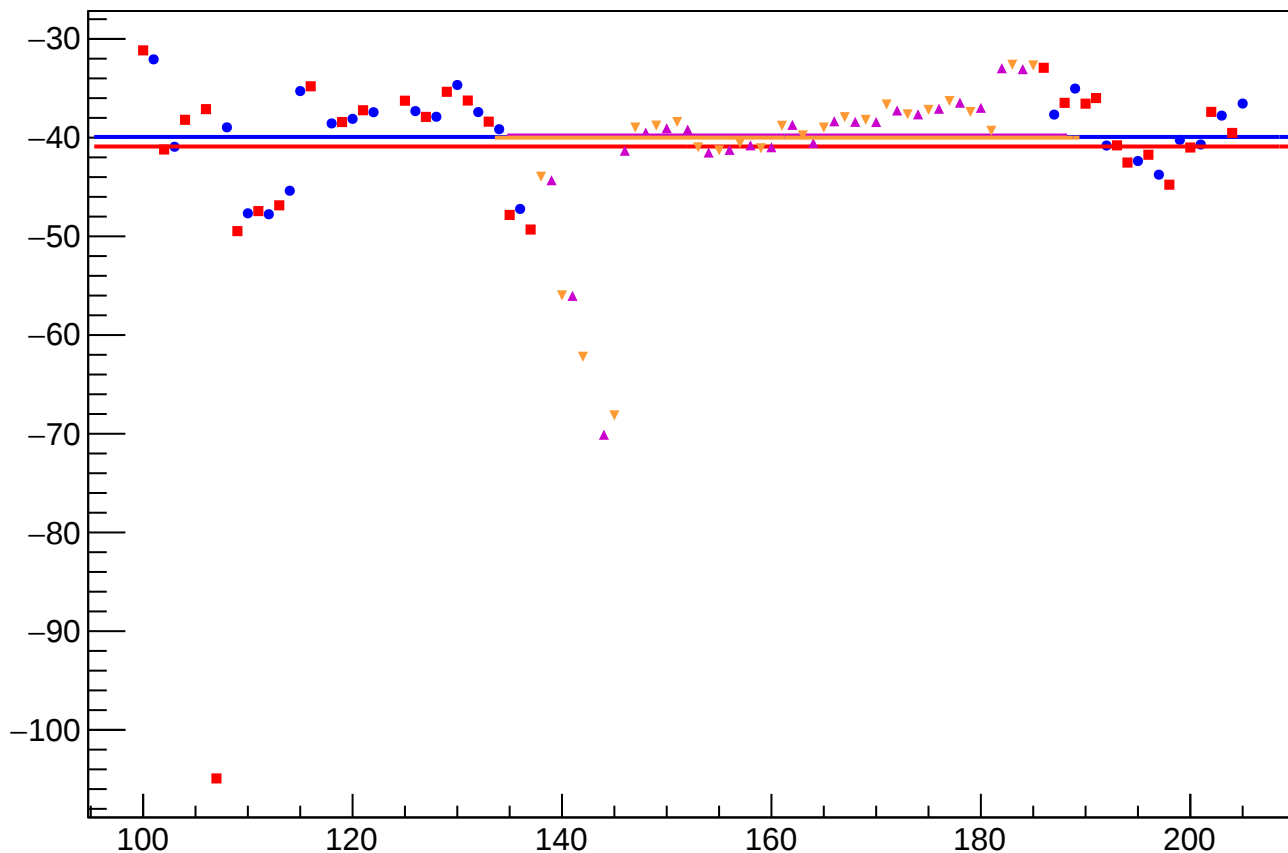
Right: 9.508 $\pm$ 0.320 χ^2 /NDF: 1176.6/53

In: 14.747 $\pm$ 0.271 χ^2 /NDF:1158.8/47

Out: 14.214 $\pm$ 0.270 χ^2 /NDF:1077.8/52

All: 14.479 $\pm$ 0.191 χ^2 /NDF: 2238.5/100

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.931 ± 0.023 χ^2/NDF : 31363.0/24

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -40.899 ± 0.022 χ^2/NDF : 103796.6/28

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

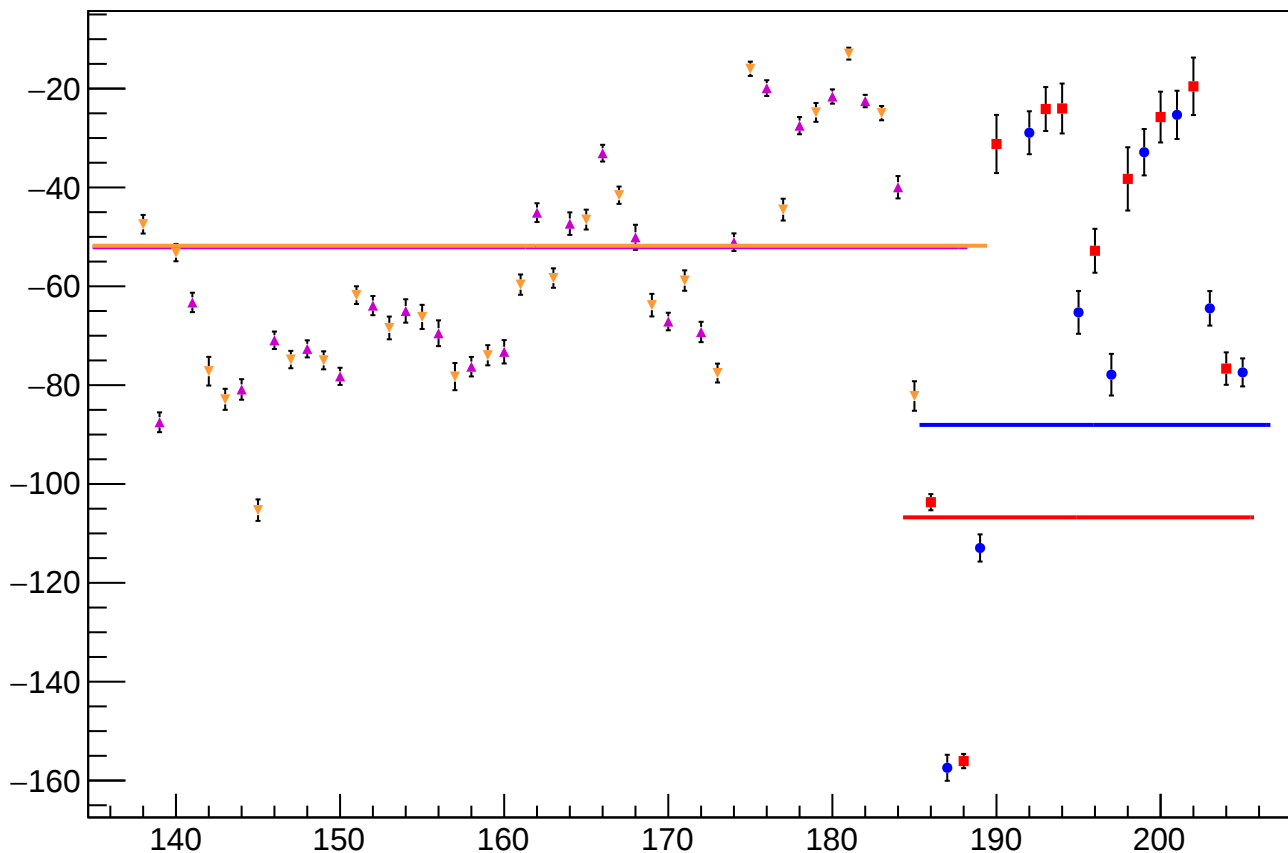
Right: -40.428 ± 0.016 χ^2/NDF : 136071.3/53

In: -39.831 ± 0.013 χ^2/NDF : 175885.1/47

Out: -40.298 ± 0.013 χ^2/NDF : 277142.2/52

All: -40.065 ± 0.009 χ^2/NDF : 453680.8/100

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -88.046 ± 1.168 $\chi^2/\text{NDF}: 1358.5/8$

Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$

Right Out: -106.749 ± 0.910 $\chi^2/\text{NDF}: 2764.4/9$

Left In: -52.104 ± 0.389 $\chi^2/\text{NDF}: 3280.2/22$

Left: -51.943 ± 0.273 $\chi^2/\text{NDF}: 7445.3/47$

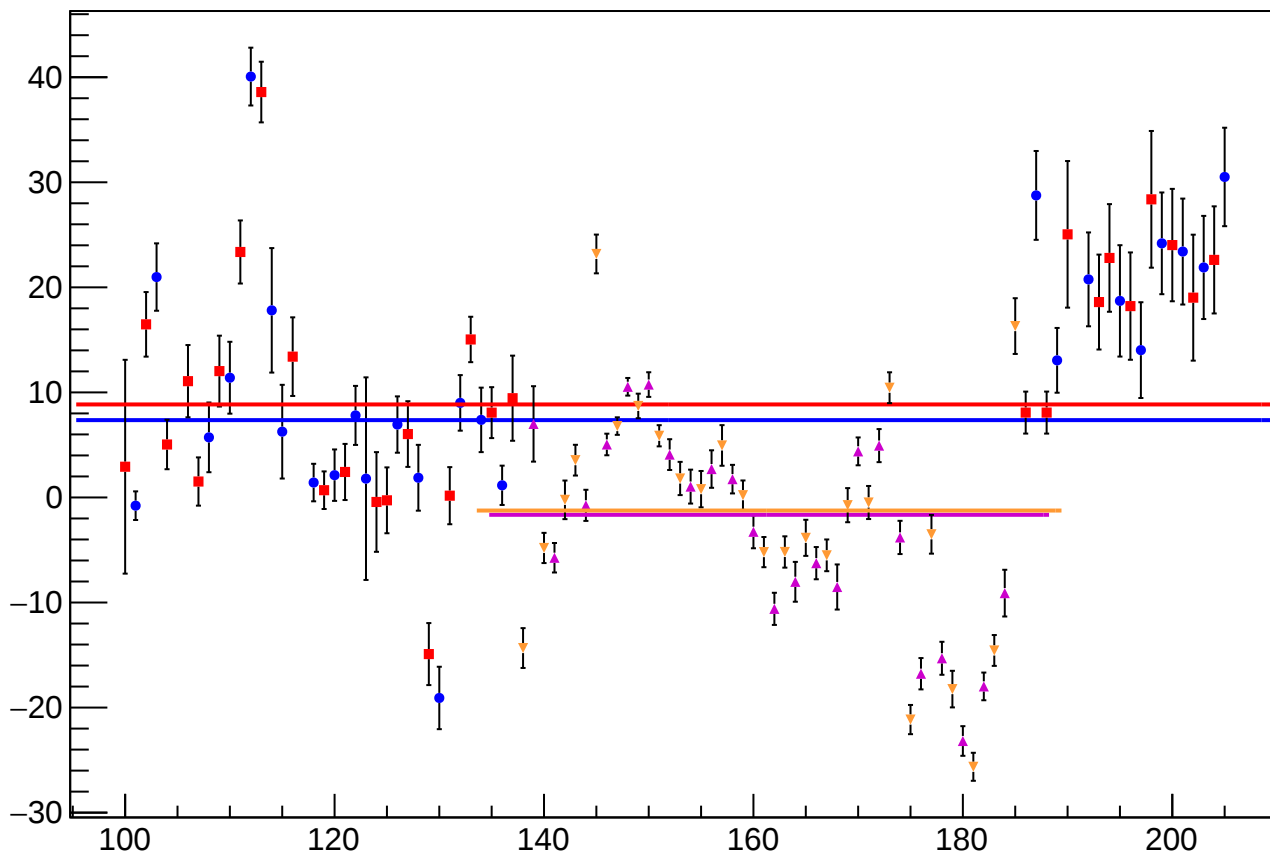
Right: -99.686 ± 0.718 $\chi^2/\text{NDF}: 4282.5/18$

In: -55.687 ± 0.369 $\chi^2/\text{NDF}: 5491.3/31$

Out: -60.047 ± 0.353 $\chi^2/\text{NDF}: 10030.0/34$

All: -57.964 ± 0.255 $\chi^2/\text{NDF}: 15594.4/66$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.361 ± 0.578 χ^2/NDF : 409.6/25

Left Out: -1.245 ± 0.292 χ^2/NDF : 1322.6/24

Right Out: 8.854 ± 0.565 χ^2/NDF : 323.0/28

Left In: -1.650 ± 0.300 χ^2/NDF : 1092.2/22

Left: -1.442 ± 0.209 χ^2/NDF : 2415.8/47

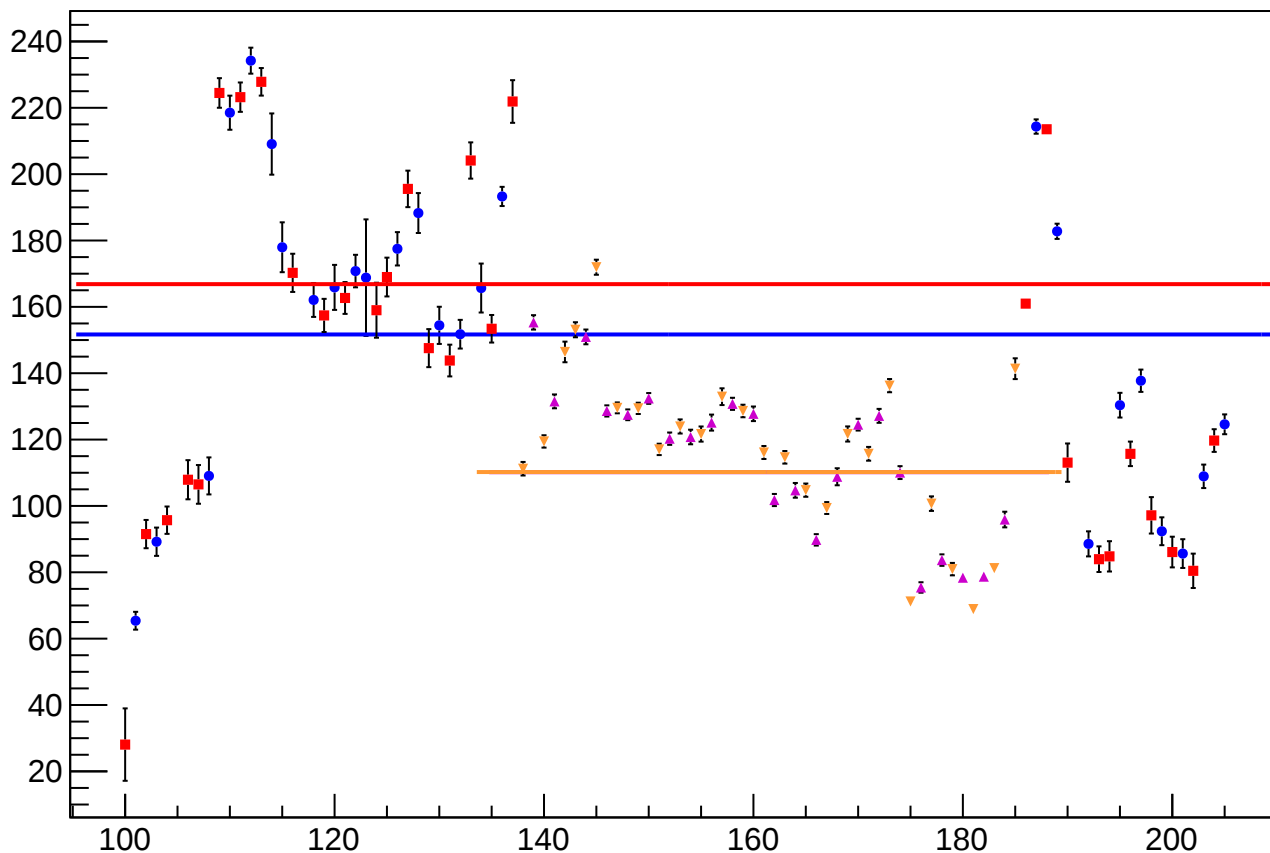
Right: 8.124 ± 0.404 χ^2/NDF : 736.0/54

In: 0.264 ± 0.266 χ^2/NDF : 1693.3/48

Out: 0.878 ± 0.259 χ^2/NDF : 1897.6/53

All: 0.580 ± 0.186 χ^2/NDF : 3593.6/102

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 151.681 $\pm$ 0.769 χ^2 /NDF: 4282.2/25

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF: 4593.7/24

Right Out: 166.848 $\pm$ 0.636 χ^2 /NDF: 5355.4/28

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

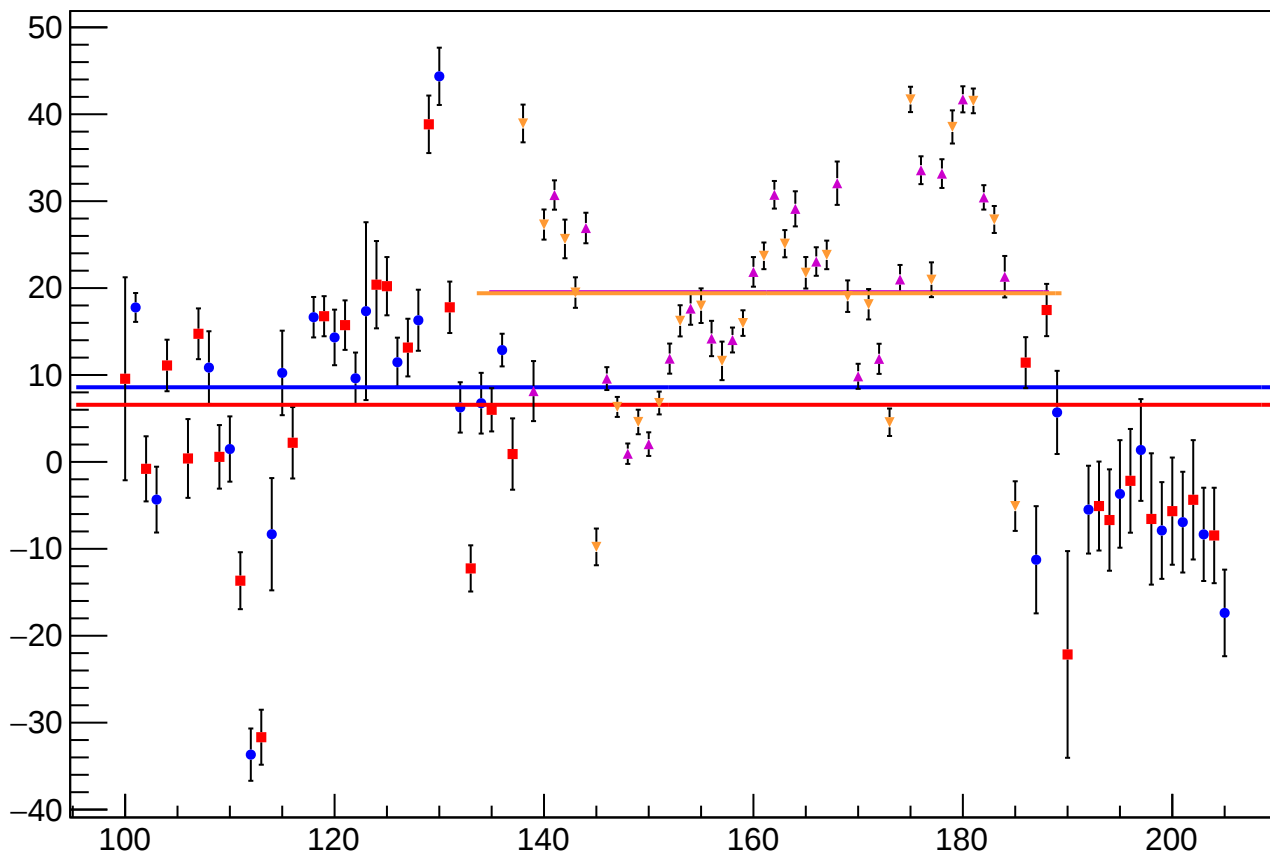
Right: 160.687 $\pm$ 0.490 χ^2 /NDF: 9868.5/54

In: 118.522 $\pm$ 0.345 χ^2 /NDF: 10311.5/48

Out: 125.223 $\pm$ 0.328 χ^2 /NDF: 15773.9/53

All: 122.047 $\pm$ 0.238 χ^2 /NDF: 26283.9/102

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.589 ± 0.670 χ^2/NDF : 473.2/25

Left Out: 19.405 ± 0.335 χ^2/NDF : 1453.4/24

Right Out: 6.572 ± 0.672 χ^2/NDF : 474.9/28

Left In: 19.530 ± 0.342 χ^2/NDF : 1181.3/22

Left: 19.466 ± 0.239 χ^2/NDF : 2634.8/47

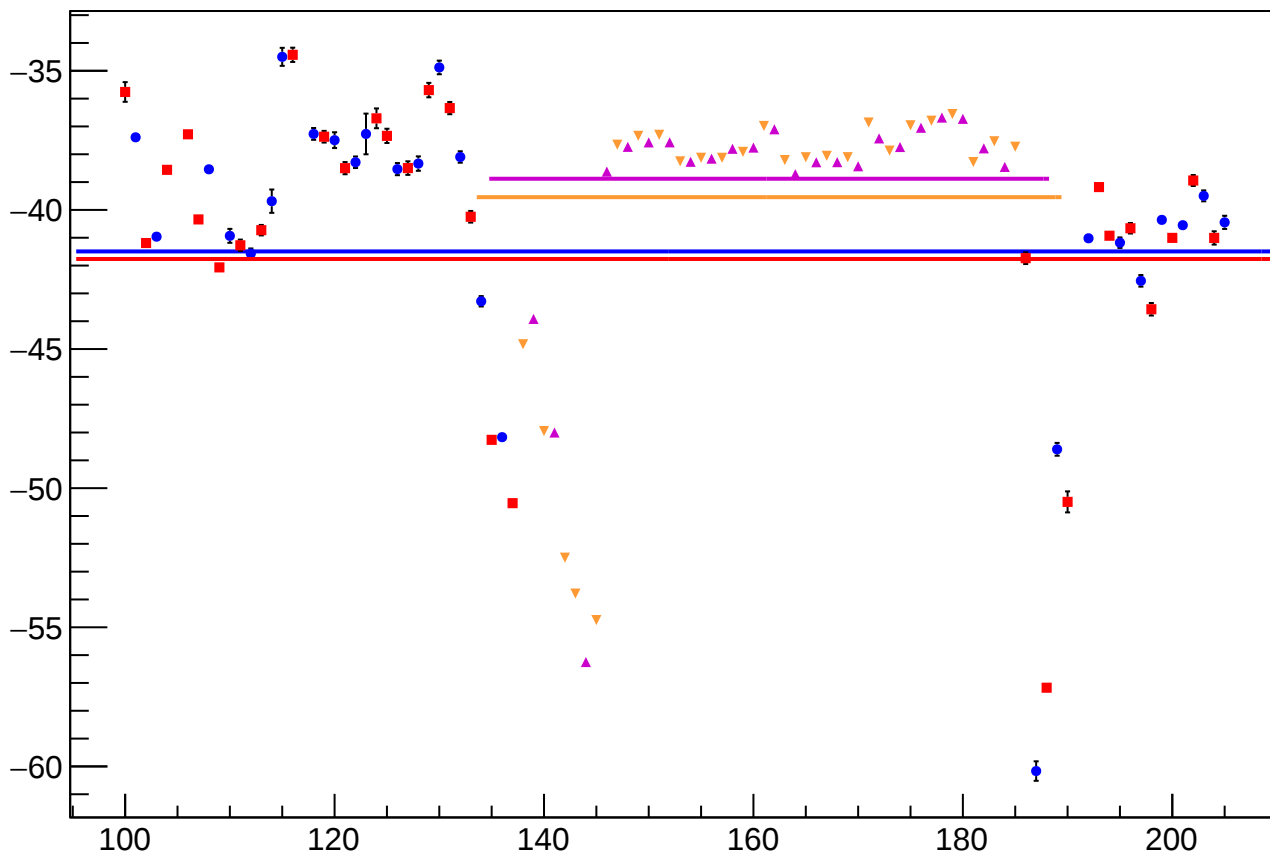
Right: 7.584 ± 0.475 χ^2/NDF : 952.6/54

In: 17.264 ± 0.305 χ^2/NDF : 1865.9/48

Out: 16.856 ± 0.300 χ^2/NDF : 2220.3/53

All: 17.057 ± 0.214 χ^2/NDF : 4087.1/102

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.492 ± 0.033 $\chi^2/\text{NDF}: 16568.2/25$

Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$

Right Out: -41.763 ± 0.033 $\chi^2/\text{NDF}: 22862.3/28$

Left In: -38.880 ± 0.016 $\chi^2/\text{NDF}: 53409.9/22$

Left: -39.214 ± 0.011 $\chi^2/\text{NDF}: 146312.0/47$

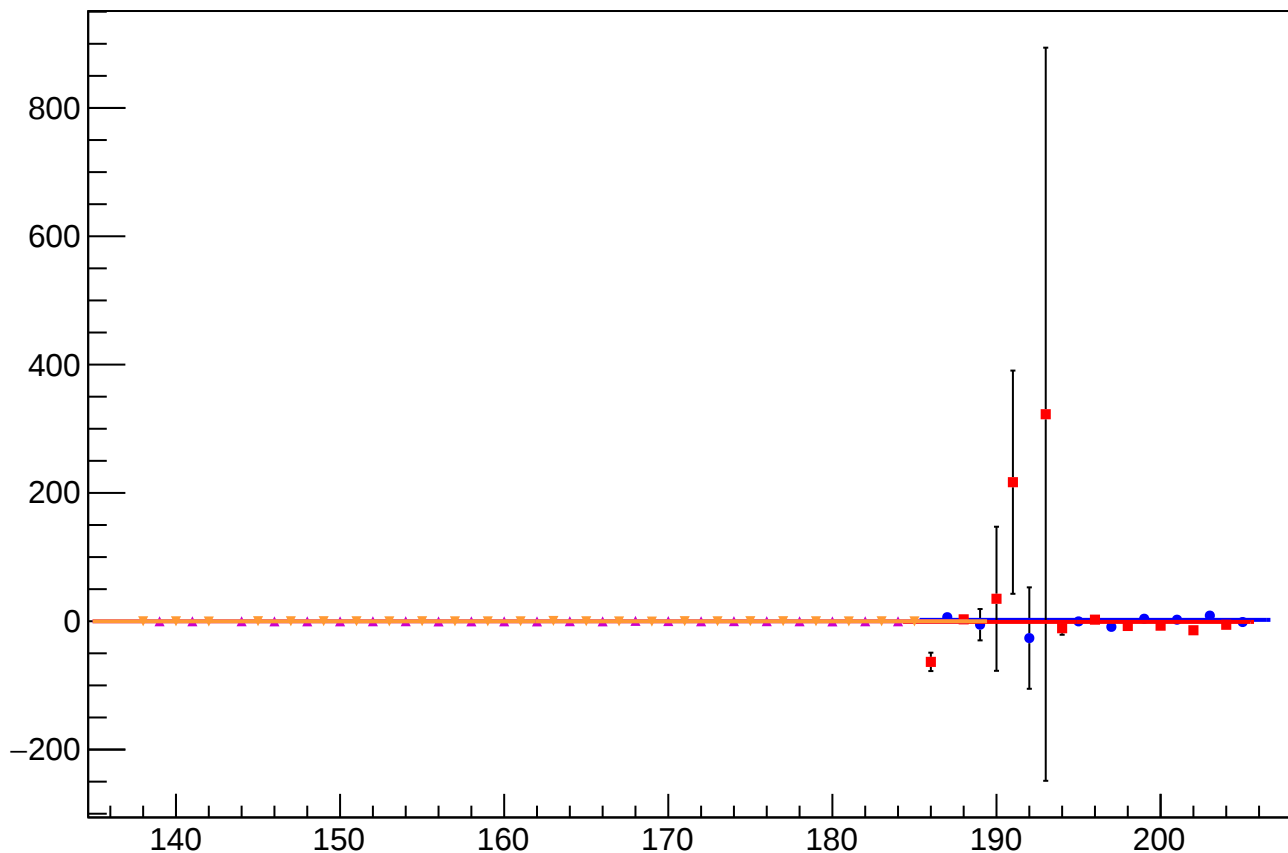
Right: -41.630 ± 0.023 $\chi^2/\text{NDF}: 39464.4/54$

In: -39.365 ± 0.014 $\chi^2/\text{NDF}: 75015.9/48$

Out: -39.959 ± 0.014 $\chi^2/\text{NDF}: 118634.4/53$

All: -39.665 ± 0.010 $\chi^2/\text{NDF}: 194520.2/102$

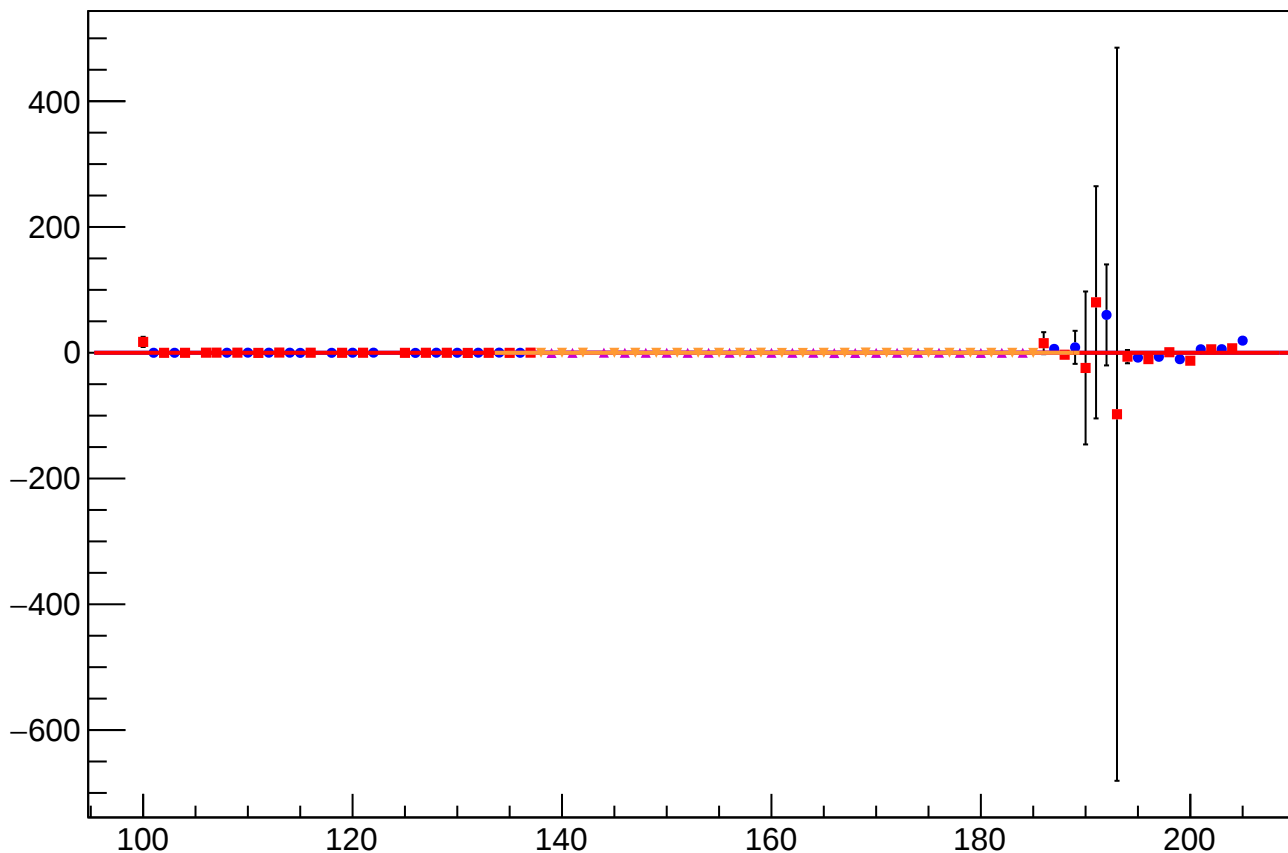
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.148 $\pm$ 1.637 χ^2 /NDF: 10.8/8
 Left Out: -0.089 $\pm$ 0.022 χ^2 /NDF:39.7/23
 Right Out: -1.047 $\pm$ 1.513 χ^2 /NDF: 32.5/10
 Left In: -0.026 $\pm$ 0.022 χ^2 /NDF:33.3/22

Left: -0.057 $\pm$ 0.016 χ^2 /NDF: 77.1/46
 Right: 0.426 $\pm$ 1.111 χ^2 /NDF: 45.3/19
 In: -0.025 $\pm$ 0.022 χ^2 /NDF:45.8/31
 Out: -0.089 $\pm$ 0.022 χ^2 /NDF:72.6/34
 All: -0.057 $\pm$ 0.016 χ^2 /NDF: 122.6/66

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 31.8/24

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.051 ± 0.029 χ^2/NDF : 36.4/28

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

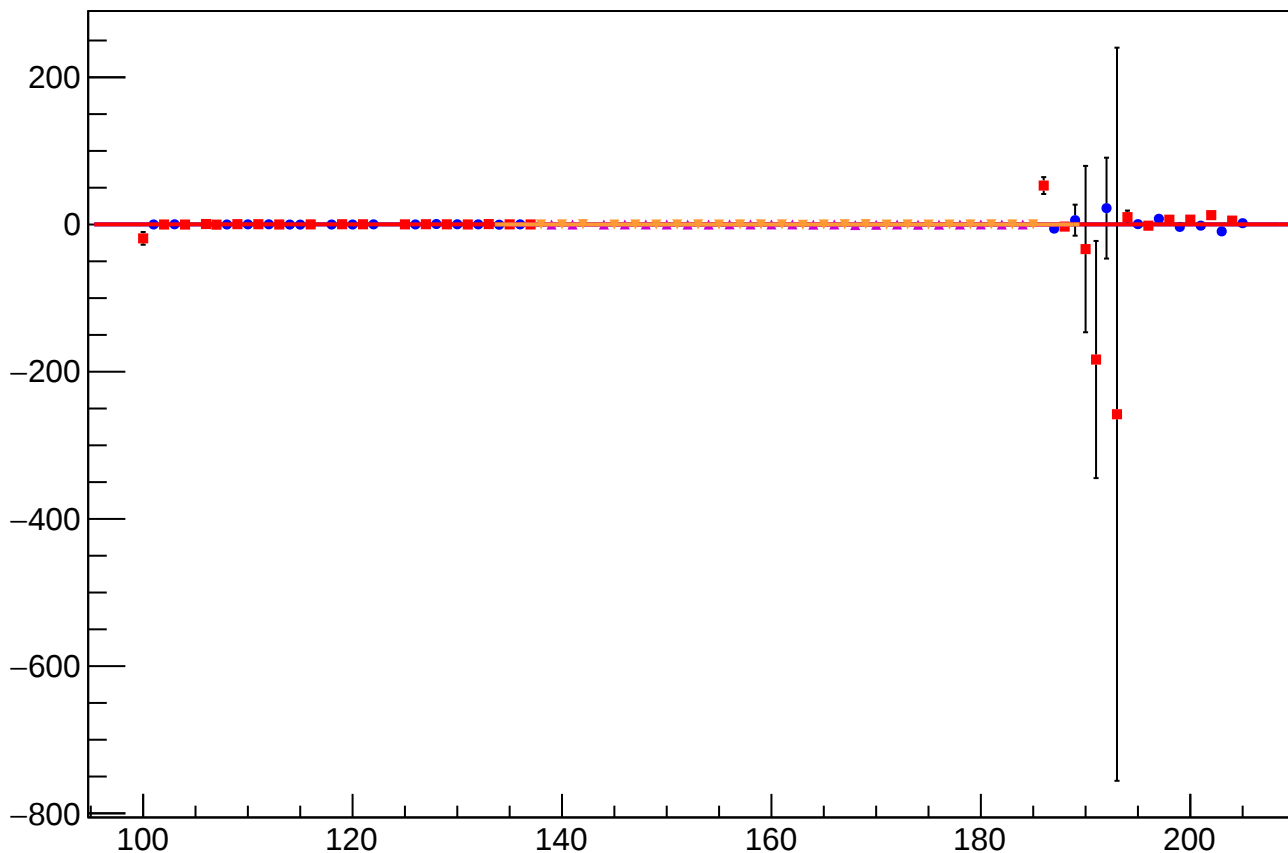
Right: -0.025 ± 0.020 χ^2/NDF : 69.7/53

In: -0.038 ± 0.015 χ^2/NDF : 65.8/47

Out: -0.073 ± 0.015 χ^2/NDF : 63.1/52

All: -0.056 ± 0.011 χ^2/NDF : 131.6/100

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 27.0/24

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 56.9/28

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

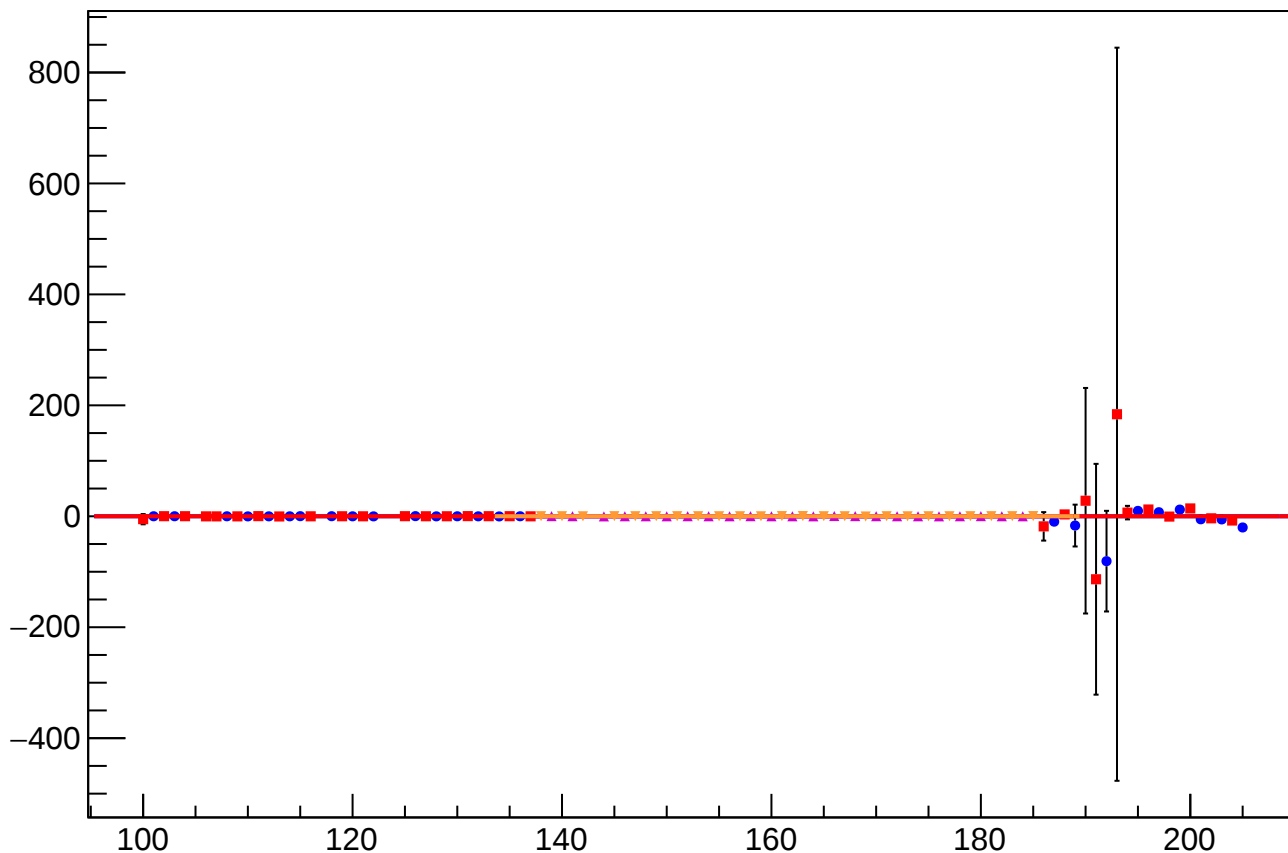
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 84.7/53

In: 0.043 $\pm$ 0.020 χ^2 /NDF:69.6/47

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:102.4/52

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 176.4/100

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 33.4/24

Left Out: 0.105 ± 0.020 χ^2/NDF : 29.5/23

Right Out: 0.058 ± 0.034 χ^2/NDF : 30.3/28

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.088 ± 0.014 χ^2/NDF : 62.5/46

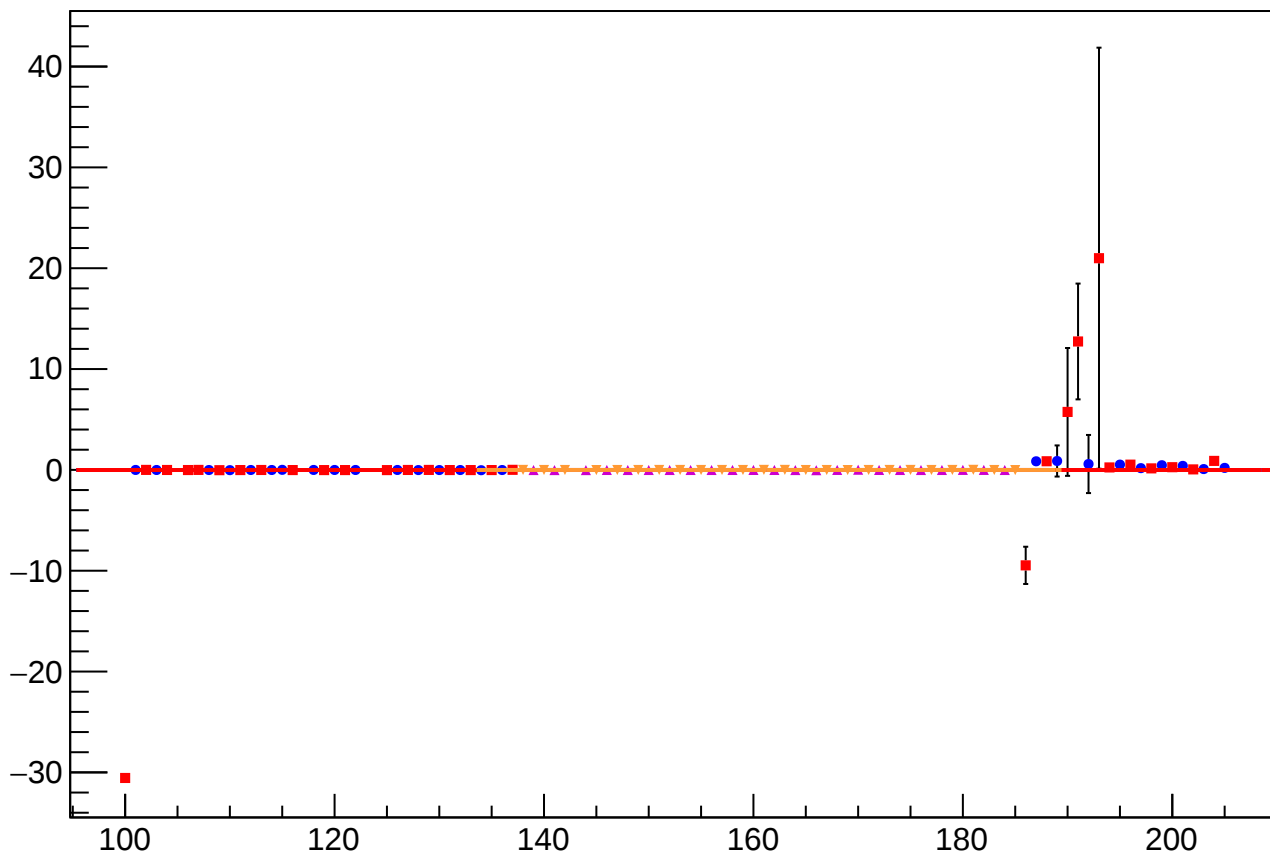
Right: 0.024 ± 0.024 χ^2/NDF : 65.5/53

In: 0.049 ± 0.017 χ^2/NDF : 68.6/47

Out: 0.093 ± 0.017 χ^2/NDF : 61.2/52

All: 0.071 ± 0.012 χ^2/NDF : 133.3/100

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 35.7/24

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11954.3/28

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

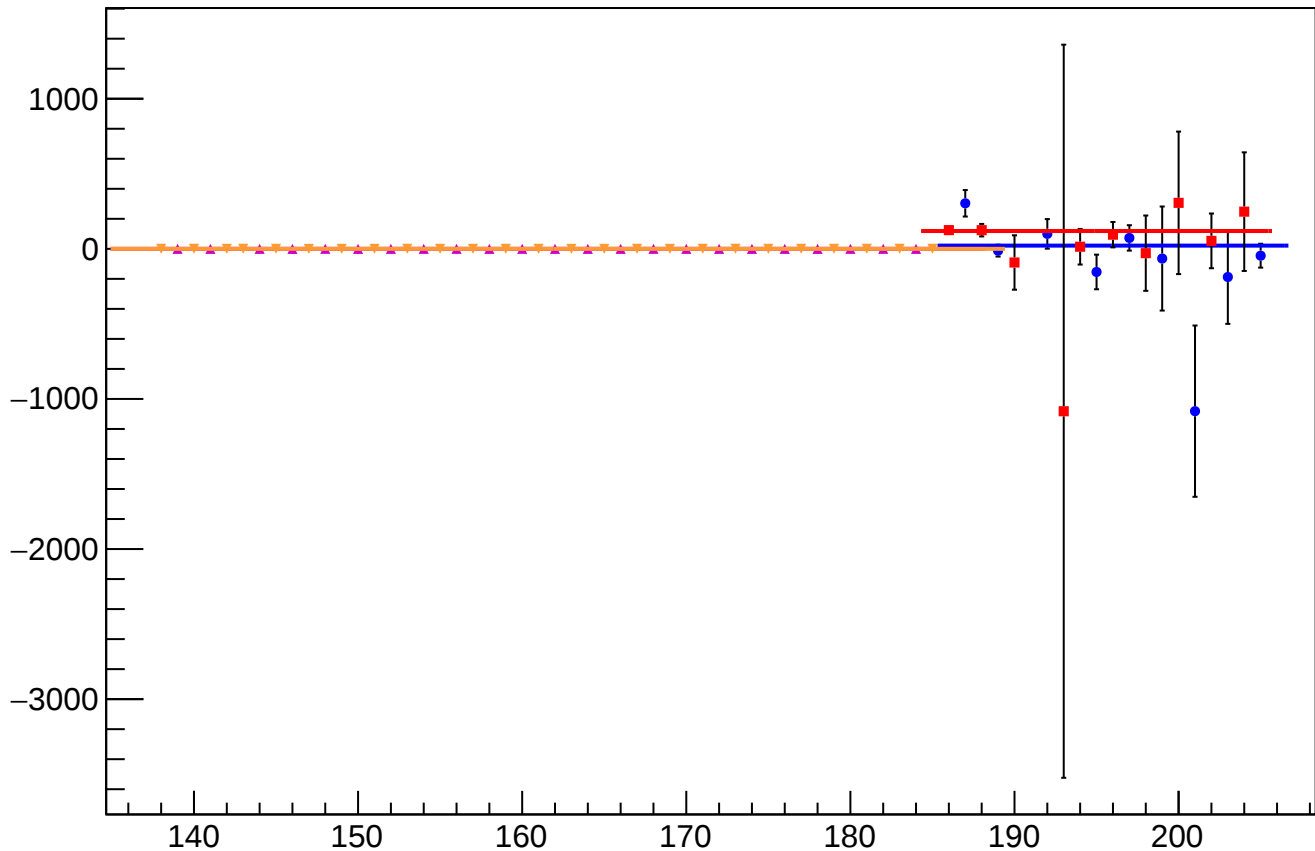
Right: -0.012 ± 0.001 χ^2/NDF : 11990.0/53

In: -0.009 ± 0.001 χ^2/NDF : 78.7/47

Out: -0.009 ± 0.001 χ^2/NDF : 11988.2/52

All: -0.009 ± 0.001 χ^2/NDF : 12067.2/100

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 21.481+/-28.082 χ^2/NDF : 19.2/8

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 118.743+/-16.444 χ^2/NDF : 3.3/9

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

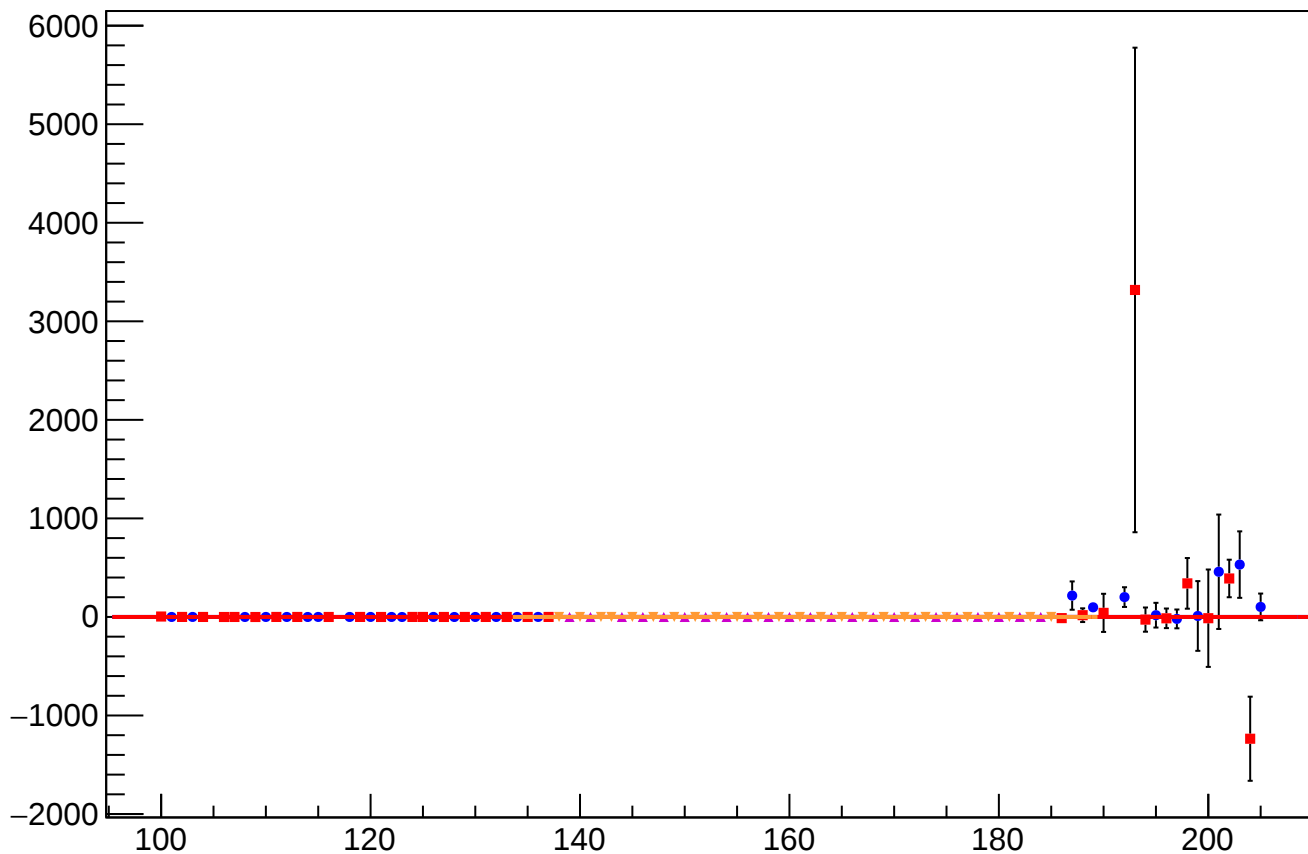
Right: 93.908+/-14.190 χ^2/NDF : 31.4/18

In: 0.002+/-0.028 χ^2/NDF :48.8/31

Out: 0.018+/-0.027 χ^2/NDF :86.4/34

All: 0.010+/-0.019 χ^2/NDF : 135.3/66

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 37.7/25$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 35.1/28$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

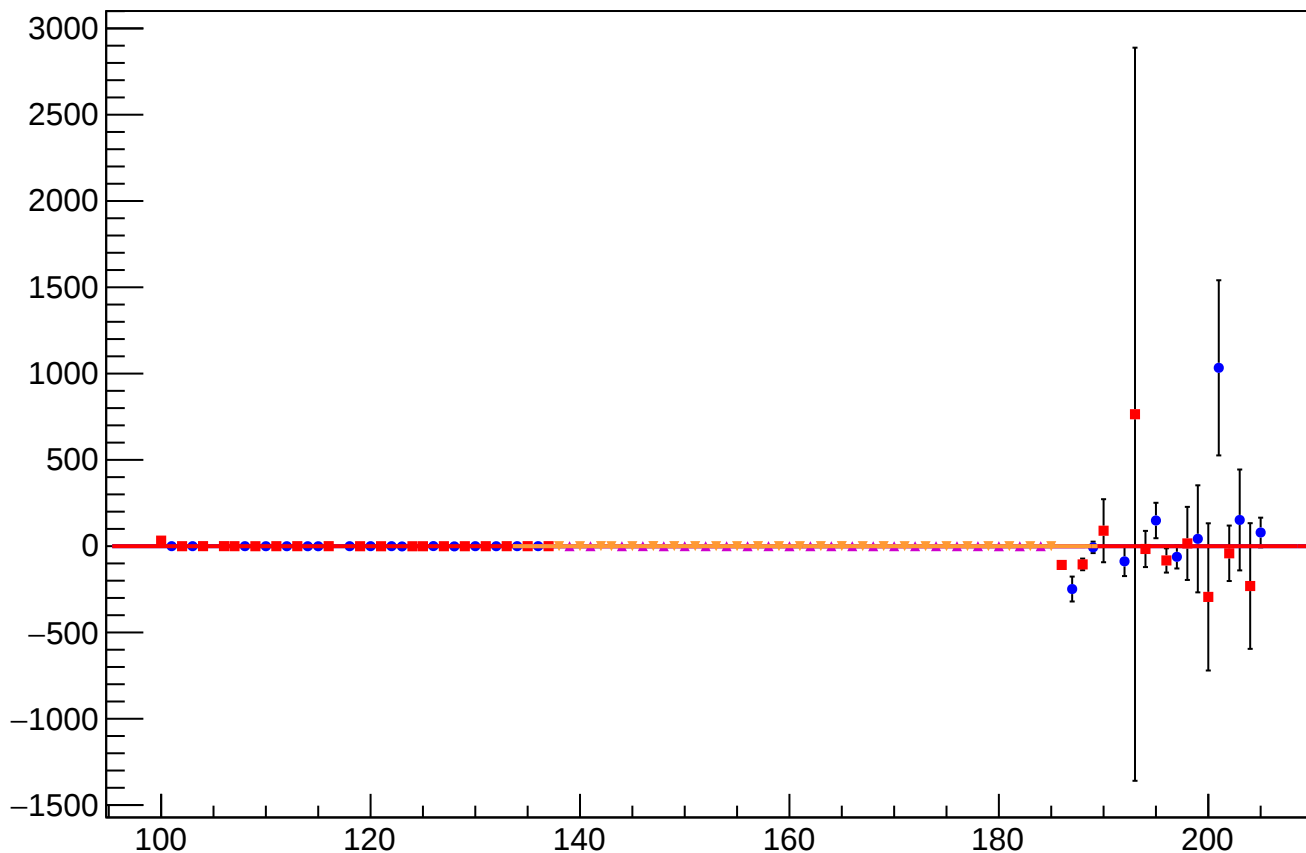
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 76.2/54$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 88.0/48$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 61.6/53$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 149.9/102$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 45.9/25$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 78.6/28$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

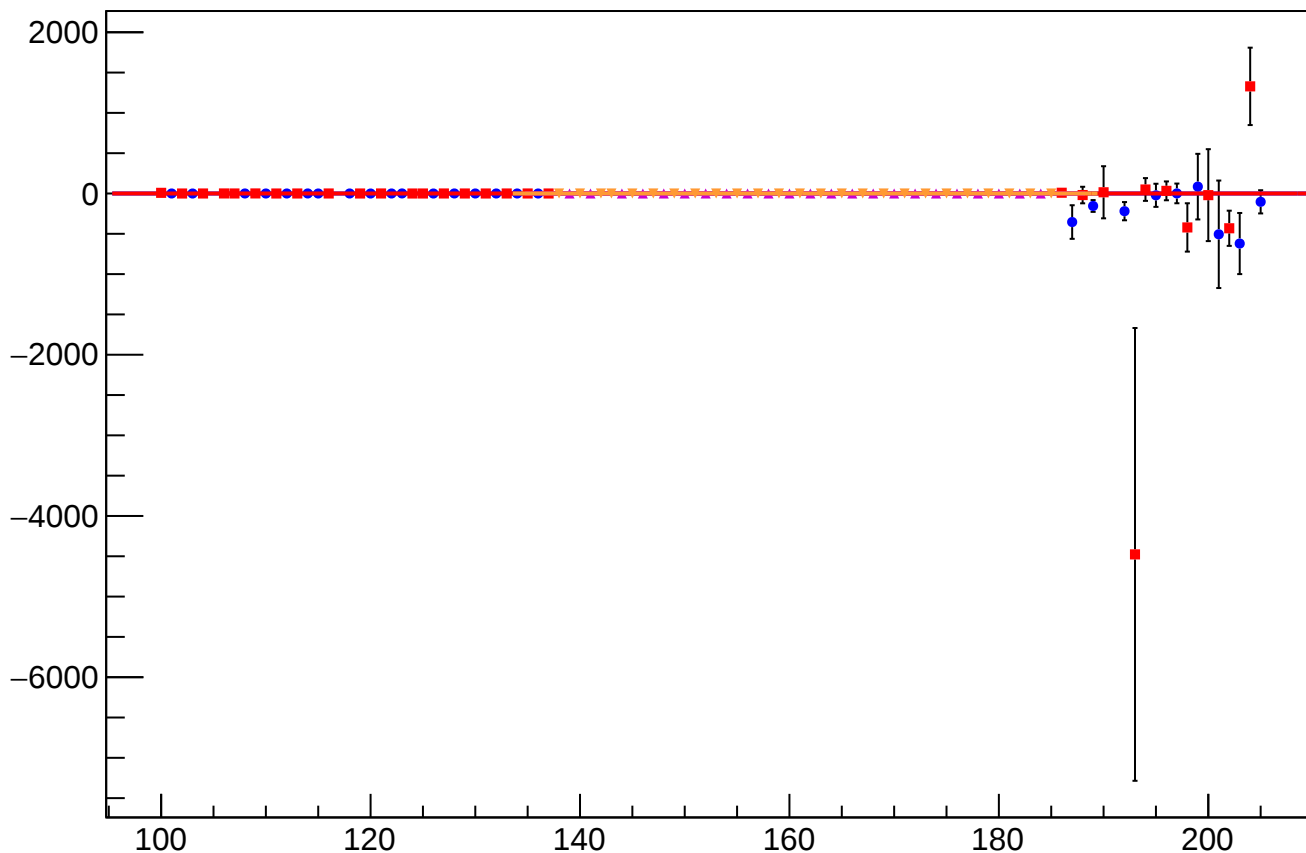
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 124.6/54$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 76.4/48$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 111.4/53$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 187.9/102$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 36.6/25

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 33.2/28

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

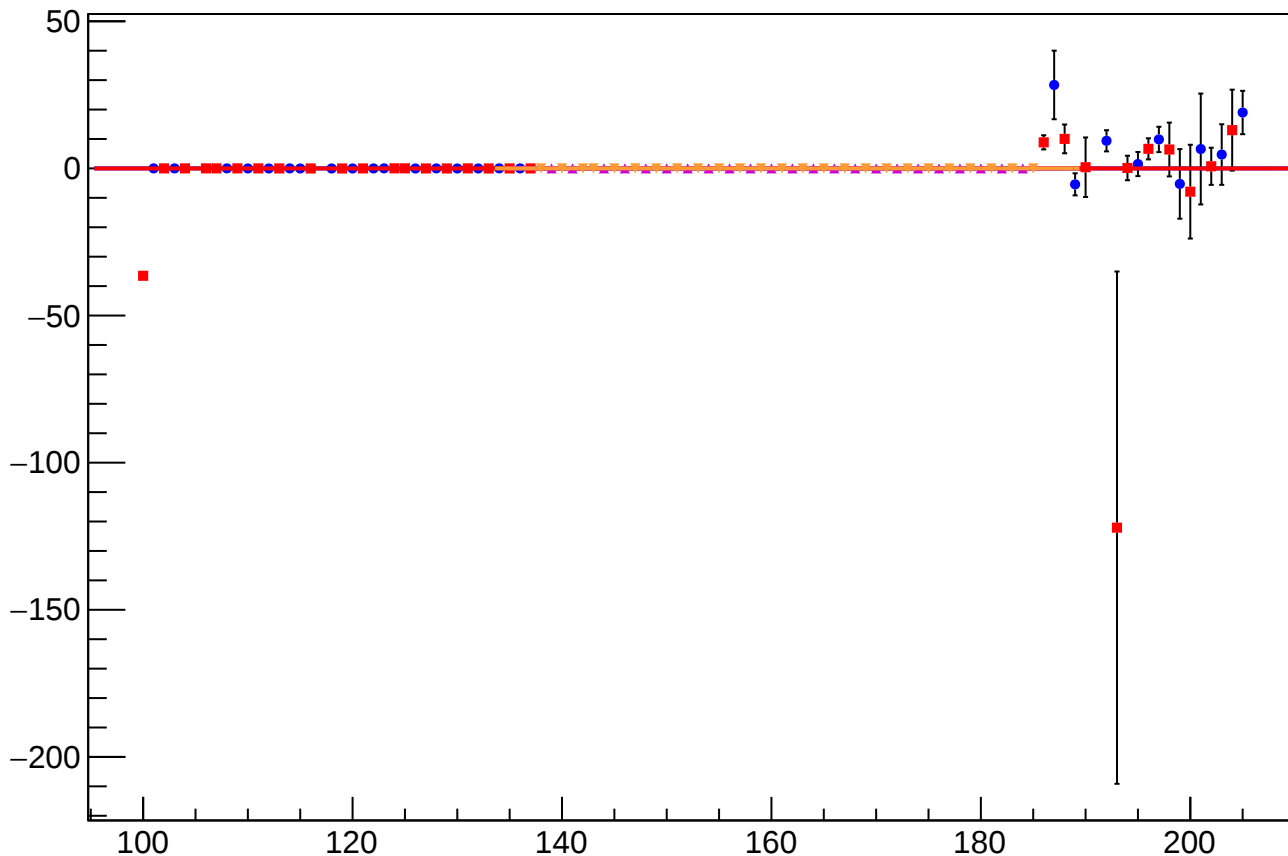
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 73.9/54

In: 0.056 $\pm$ 0.021 χ^2 /NDF:89.4/48

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:60.3/53

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 150.5/102

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 57.8/25

Left Out: 0.008 $\pm$ 0.001 χ^2 /NDF: 26.3/24

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10474.0/28

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

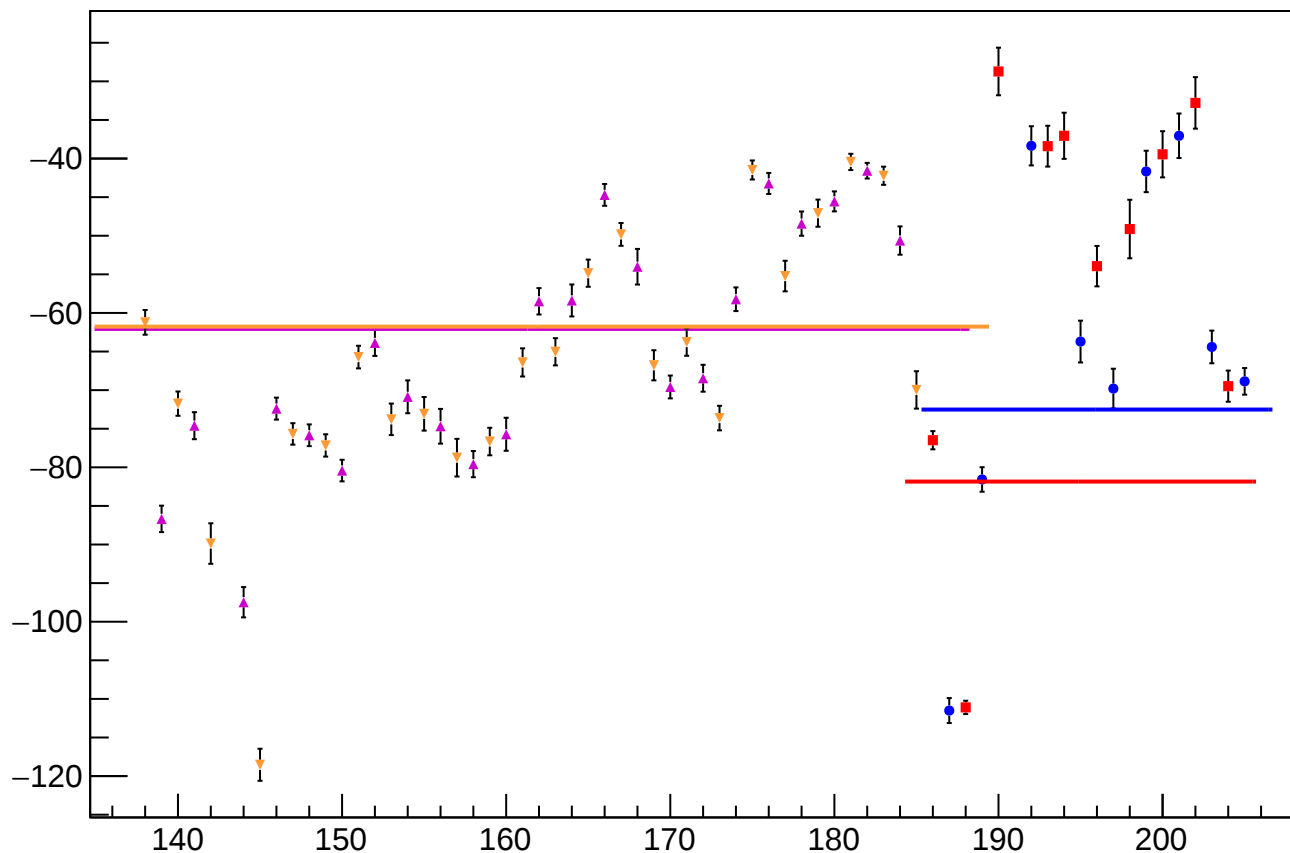
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10531.8/54

In: 0.007 $\pm$ 0.001 χ^2 /NDF: 82.3/48

Out: 0.007 $\pm$ 0.001 χ^2 /NDF: 10509.2/53

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10591.6/102

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -72.516 ± 0.700 $\chi^2/\text{NDF}: 1109.2/8$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -81.846 ± 0.570 $\chi^2/\text{NDF}: 2600.7/9$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

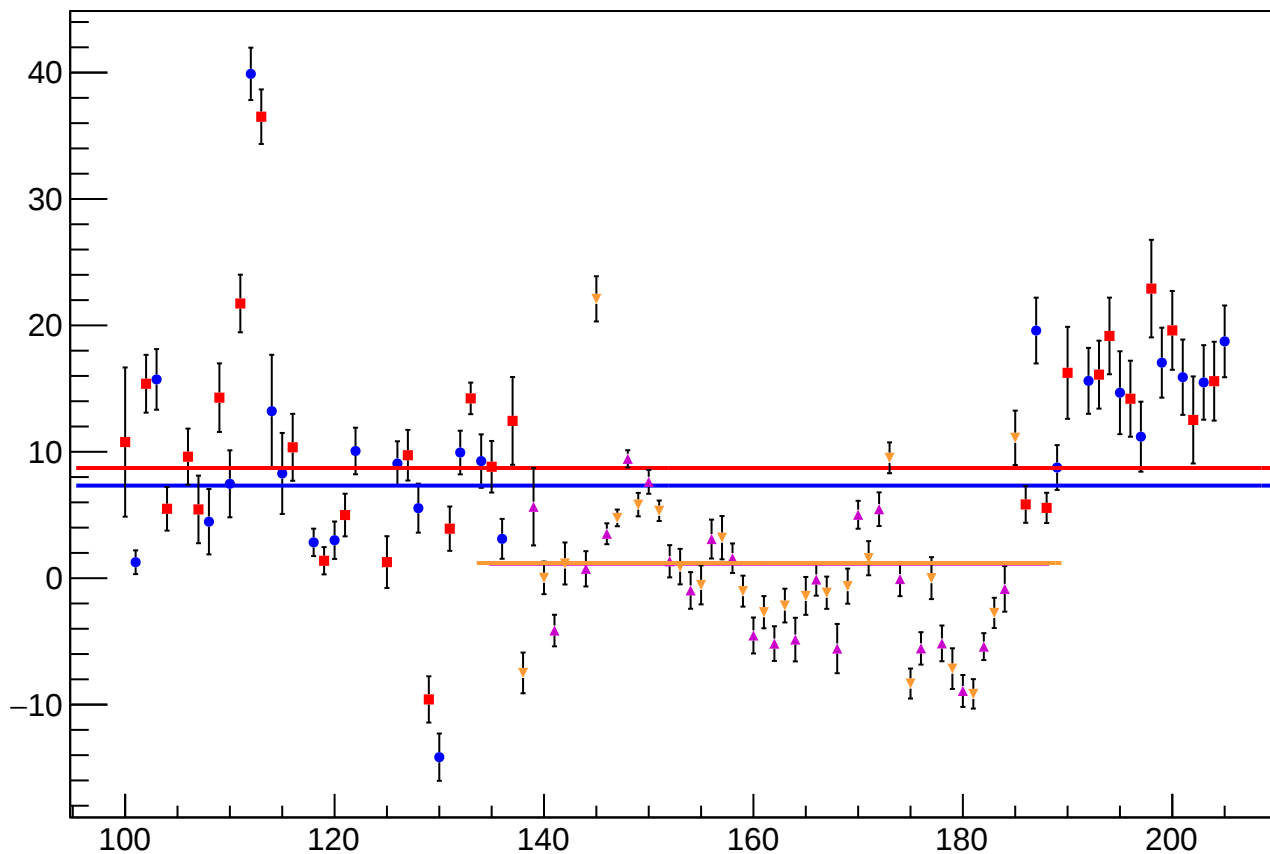
Right: -78.130 ± 0.442 $\chi^2/\text{NDF}: 3816.8/18$

In: -63.993 ± 0.300 $\chi^2/\text{NDF}: 3482.7/31$

Out: -66.905 ± 0.288 $\chi^2/\text{NDF}: 6030.1/33$

All: -65.509 ± 0.208 $\chi^2/\text{NDF}: 9561.8/65$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.326 ± 0.385 $\chi^2/\text{NDF}: 560.2/24$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 8.717 ± 0.383 $\chi^2/\text{NDF}: 479.1/27$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

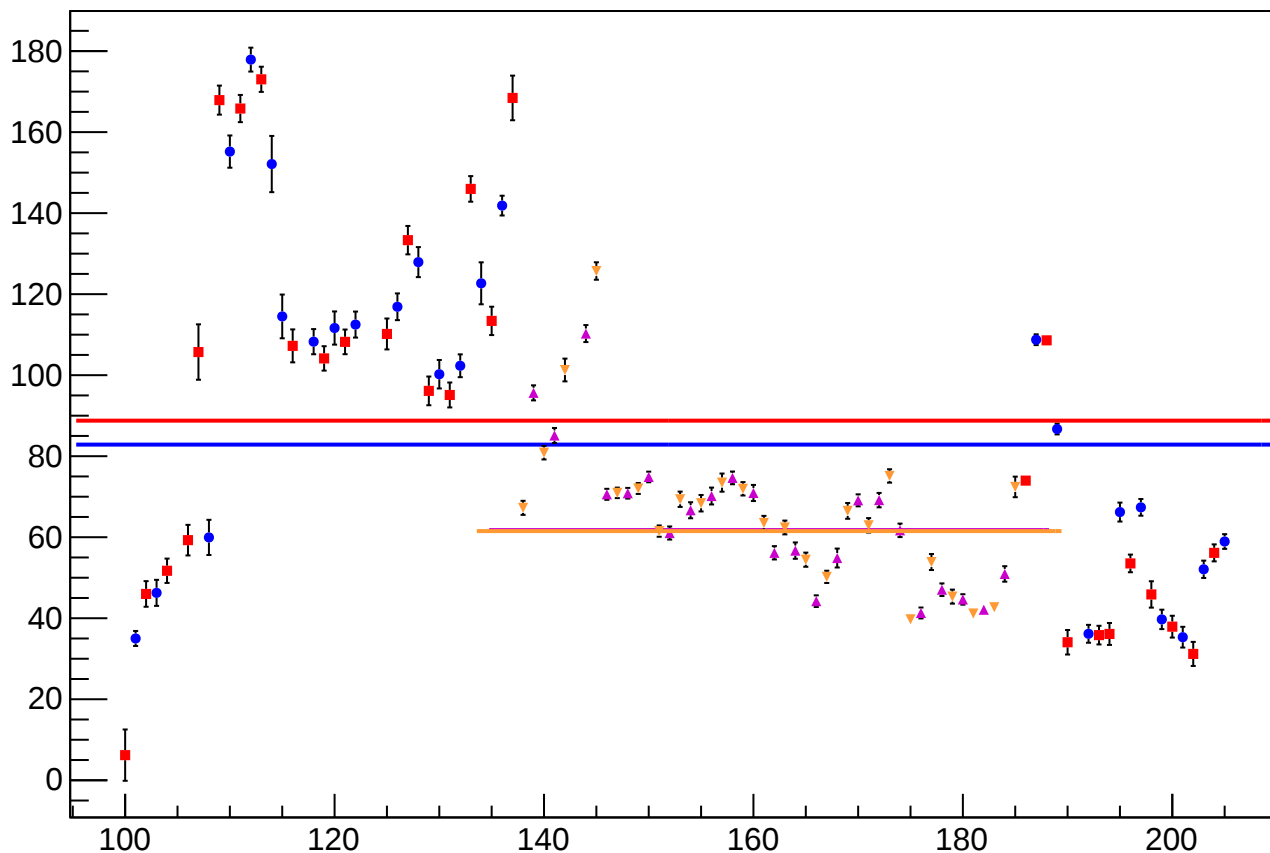
Right: 8.027 ± 0.272 $\chi^2/\text{NDF}: 1045.9/52$

In: 3.031 ± 0.213 $\chi^2/\text{NDF}: 1201.9/47$

Out: 3.480 ± 0.211 $\chi^2/\text{NDF}: 1274.4/51$

All: 3.258 ± 0.150 $\chi^2/\text{NDF}: 2478.5/99$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 82.861 $\pm$ 0.493 χ^2 /NDF: 5491.4/24

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF:2606.0/23

Right Out: 88.775 $\pm$ 0.414 χ^2 /NDF: 6902.4/27

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF:2418.2/22

Left: 61.638 $\pm$ 0.234 χ^2 /NDF: 5024.5/46

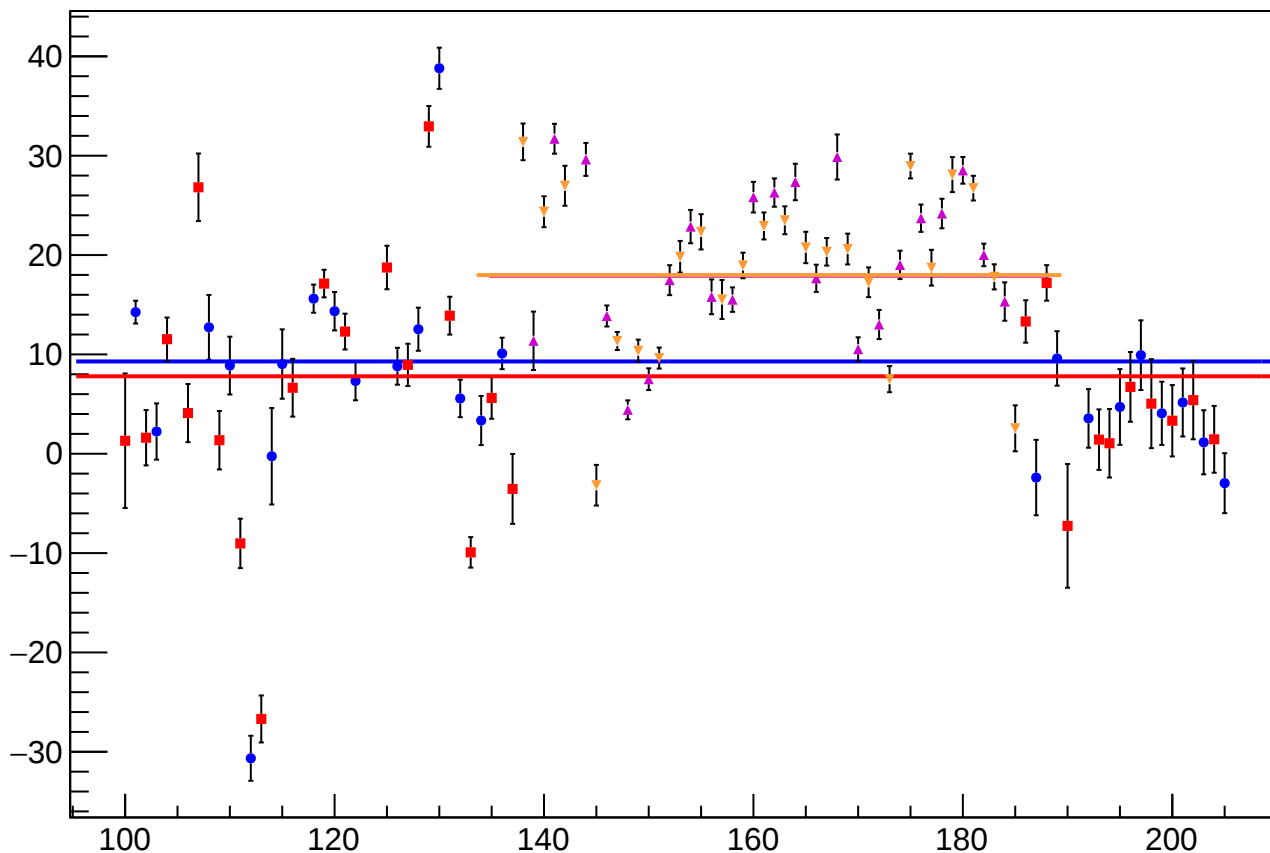
Right: 86.333 $\pm$ 0.317 χ^2 /NDF: 12478.2/52

In: 68.288 $\pm$ 0.274 χ^2 /NDF:9174.3/47

Out: 72.208 $\pm$ 0.259 χ^2 /NDF:12148.9/51

All: 70.360 $\pm$ 0.188 χ^2 /NDF: 21431.2/99

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.291 ± 0.452 $\chi^2/\text{NDF}: 625.1/24$

Left Out: 17.980 ± 0.291 $\chi^2/\text{NDF}: 674.4/23$

Right Out: 7.796 ± 0.459 $\chi^2/\text{NDF}: 741.2/27$

Left In: 17.916 ± 0.292 $\chi^2/\text{NDF}: 726.5/22$

Left: 17.948 ± 0.206 $\chi^2/\text{NDF}: 1400.9/46$

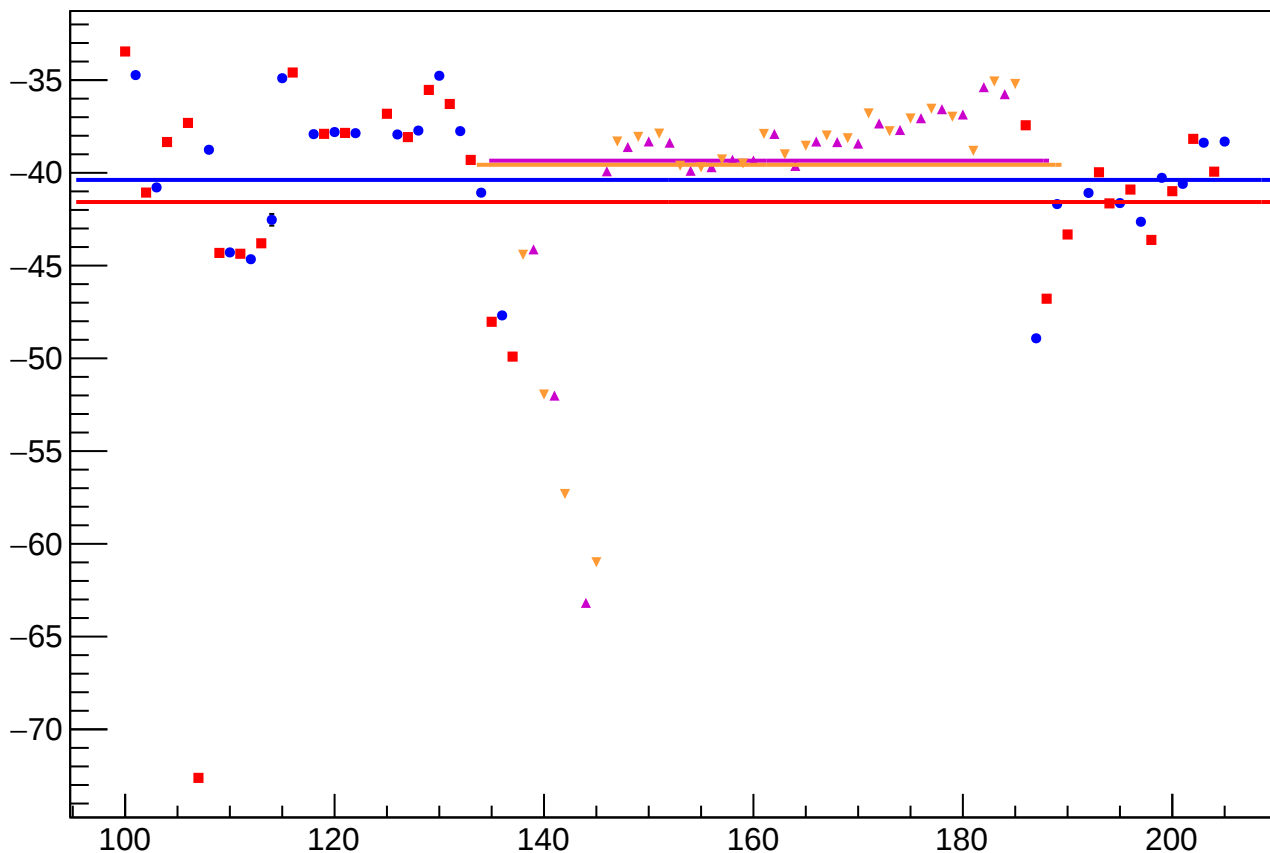
Right: 8.554 ± 0.322 $\chi^2/\text{NDF}: 1371.8/52$

In: 15.376 ± 0.246 $\chi^2/\text{NDF}: 1608.0/47$

Out: 15.060 ± 0.246 $\chi^2/\text{NDF}: 1767.1/51$

All: 15.218 ± 0.174 $\chi^2/\text{NDF}: 3375.9/99$

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.381 ± 0.023 χ^2/NDF : 27874.3/24

Left Out: -39.566 ± 0.014 χ^2/NDF : 141198.7/23

Right Out: -41.573 ± 0.022 χ^2/NDF : 67325.6/27

Left In: -39.344 ± 0.014 χ^2/NDF : 116615.7/22

Left: -39.454 ± 0.010 χ^2/NDF : 257946.5/46

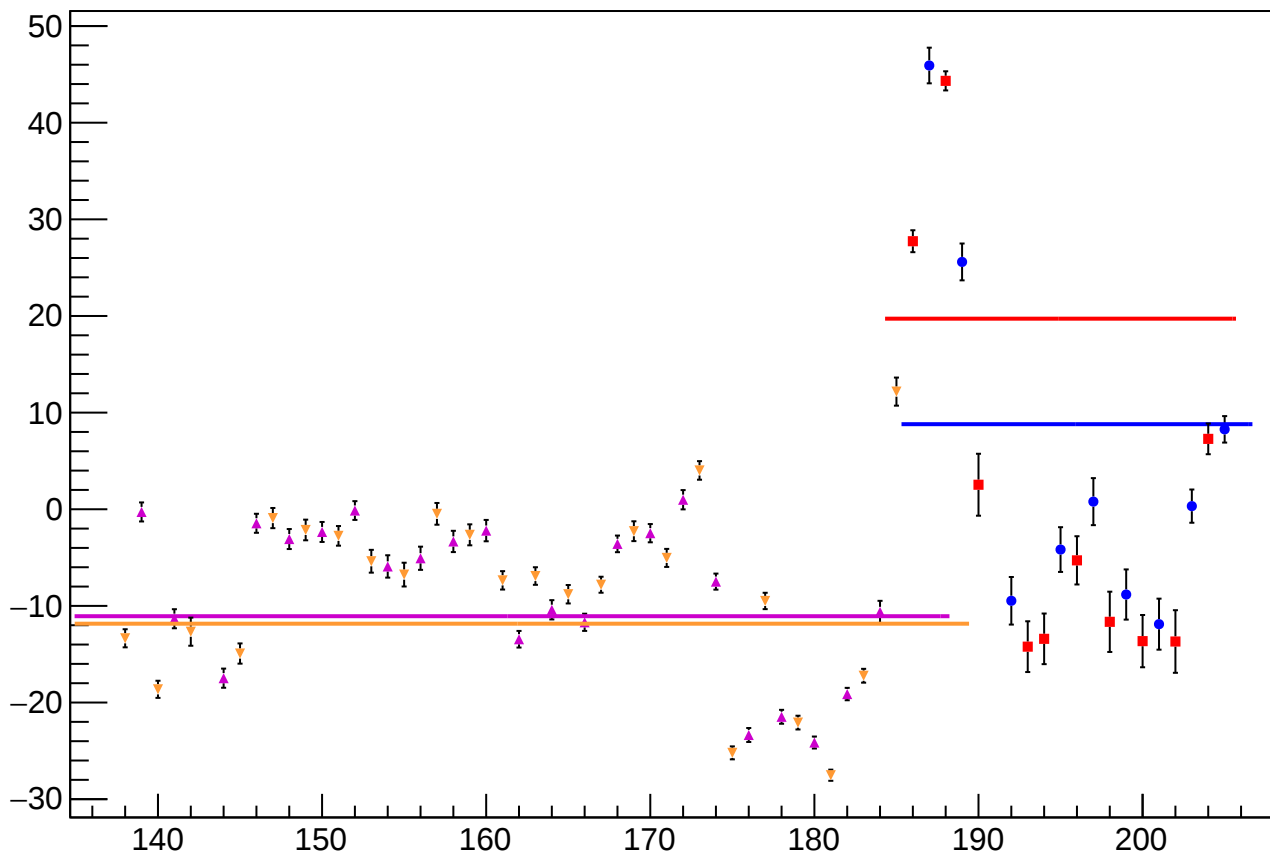
Right: -40.984 ± 0.016 χ^2/NDF : 96589.9/52

In: -39.617 ± 0.012 χ^2/NDF : 146023.3/47

Out: -40.112 ± 0.012 χ^2/NDF : 214332.0/51

All: -39.863 ± 0.008 χ^2/NDF : 361250.3/99

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.803 ± 0.666 $\chi^2/\text{NDF}: 711.7/8$

Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$

Right Out: 19.721 ± 0.570 $\chi^2/\text{NDF}: 1544.8/9$

Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$

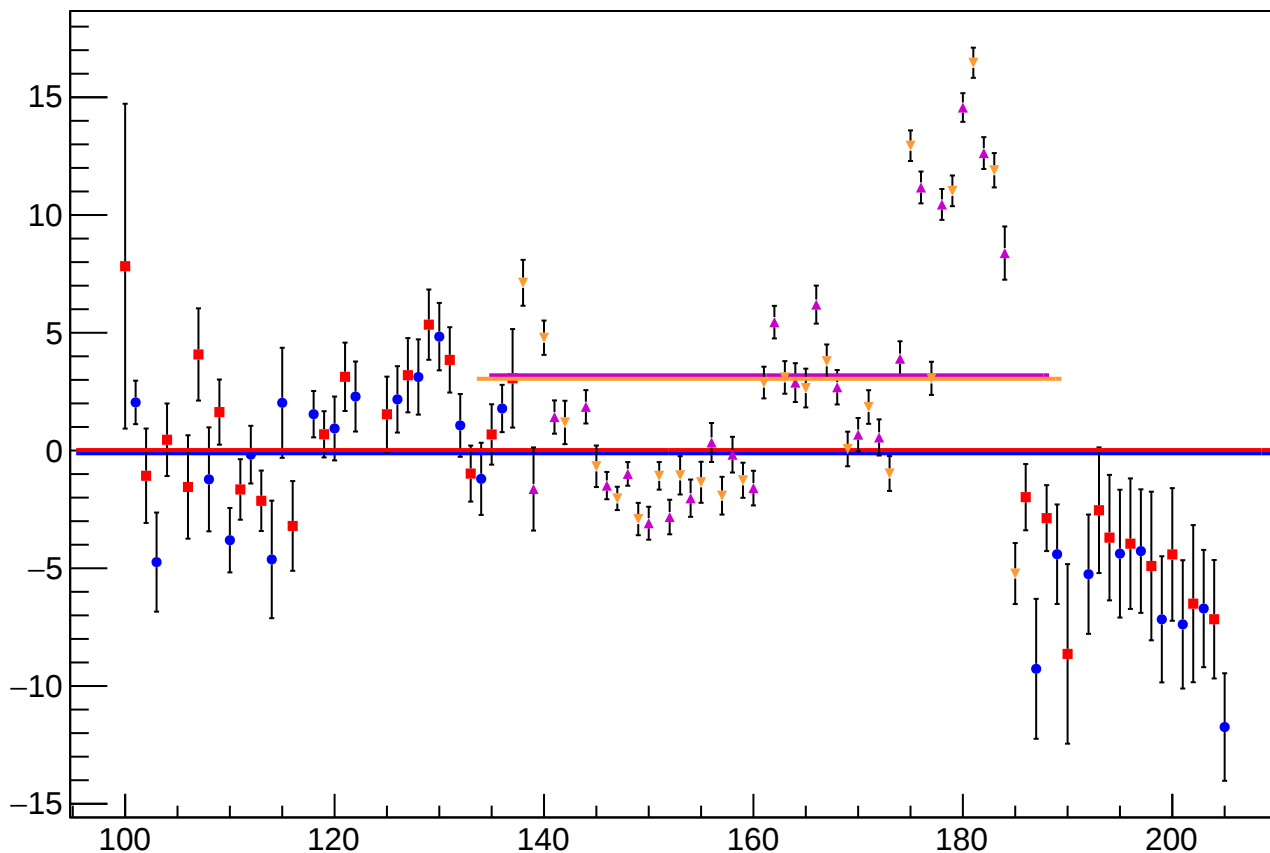
Right: 15.106 ± 0.433 $\chi^2/\text{NDF}: 2411.5/18$

In: -9.602 ± 0.181 $\chi^2/\text{NDF}: 3640.4/31$

Out: -8.782 ± 0.178 $\chi^2/\text{NDF}: 7052.2/33$

All: -9.184 ± 0.127 $\chi^2/\text{NDF}: 10703.0/65$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.118 ± 0.317 χ^2/NDF : 121.3/24

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: 0.020 ± 0.317 χ^2/NDF : 81.9/27

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

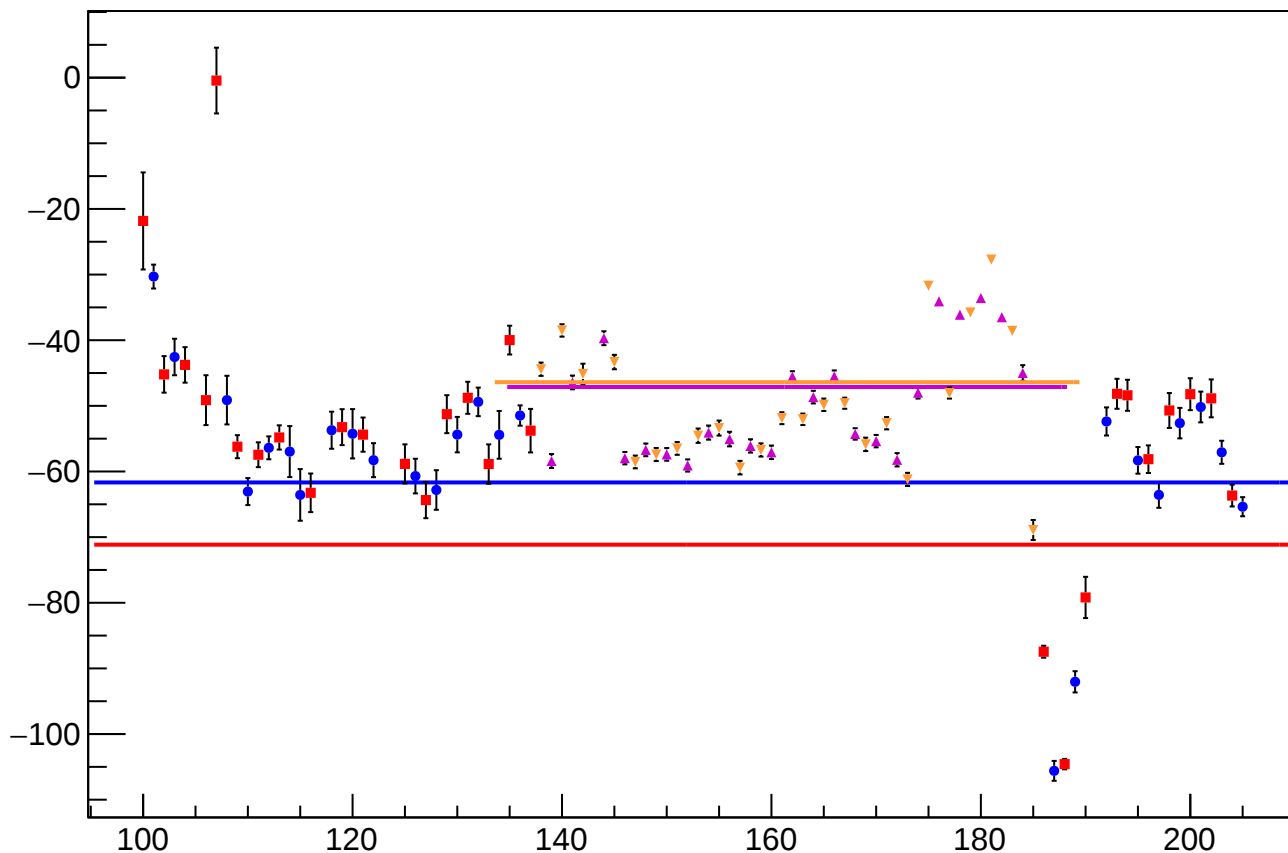
Right: -0.048 ± 0.224 χ^2/NDF : 203.3/52

In: 2.589 ± 0.136 χ^2/NDF : 1505.4/47

Out: 2.506 ± 0.134 χ^2/NDF : 1614.1/51

All: 2.547 ± 0.095 χ^2/NDF : 3119.6/99

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -61.669 ± 0.433 $\chi^2/\text{NDF}: 1735.7/24$

Left Out: -46.392 ± 0.187 $\chi^2/\text{NDF}: 3286.7/23$

Right Out: -71.151 ± 0.381 $\chi^2/\text{NDF}: 3704.8/27$

Left In: -47.128 ± 0.187 $\chi^2/\text{NDF}: 2516.0/22$

Left: -46.759 ± 0.132 $\chi^2/\text{NDF}: 5810.5/46$

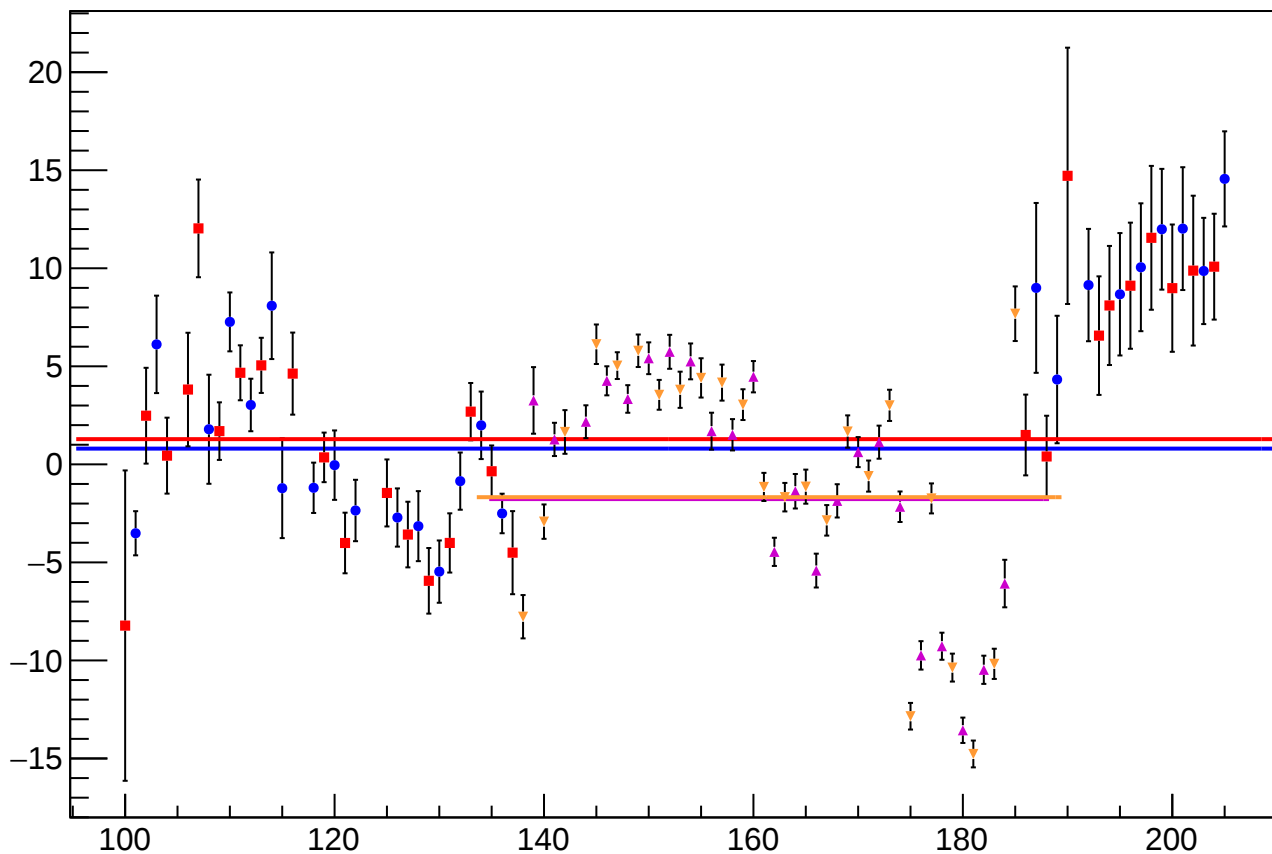
Right: -67.012 ± 0.286 $\chi^2/\text{NDF}: 5711.1/52$

In: -49.420 ± 0.172 $\chi^2/\text{NDF}: 5203.0/47$

Out: -51.184 ± 0.168 $\chi^2/\text{NDF}: 10399.8/51$

All: -50.324 ± 0.120 $\chi^2/\text{NDF}: 15656.8/99$

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.803 ± 0.362 χ^2/NDF : 190.9/24

Left Out: -1.675 ± 0.167 χ^2/NDF : 1483.8/23

Right Out: 1.285 ± 0.367 χ^2/NDF : 148.6/27

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.723 ± 0.119 χ^2/NDF : 2735.2/46

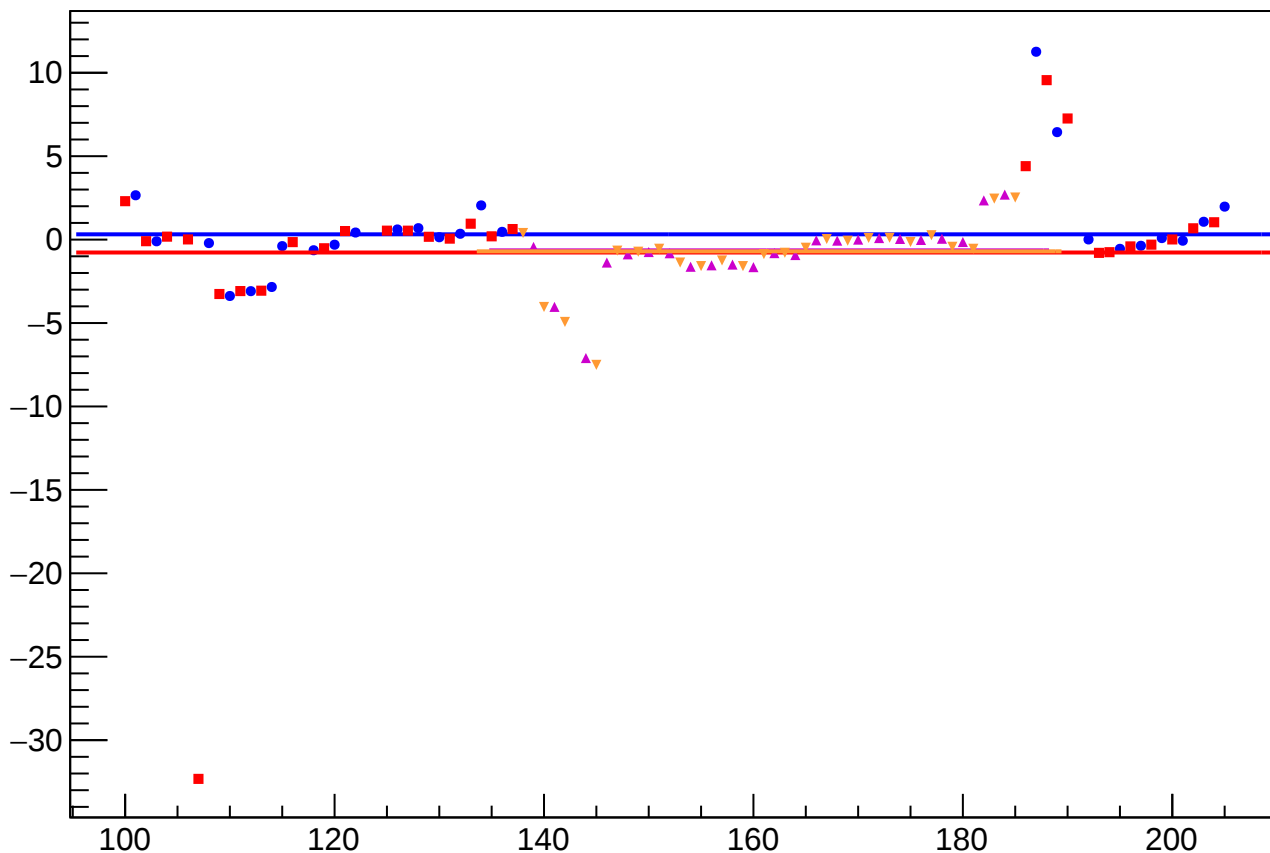
Right: 1.041 ± 0.258 χ^2/NDF : 340.3/52

In: -1.310 ± 0.153 χ^2/NDF : 1483.7/47

Out: -1.167 ± 0.152 χ^2/NDF : 1686.3/51

All: -1.238 ± 0.108 χ^2/NDF : 3170.4/99

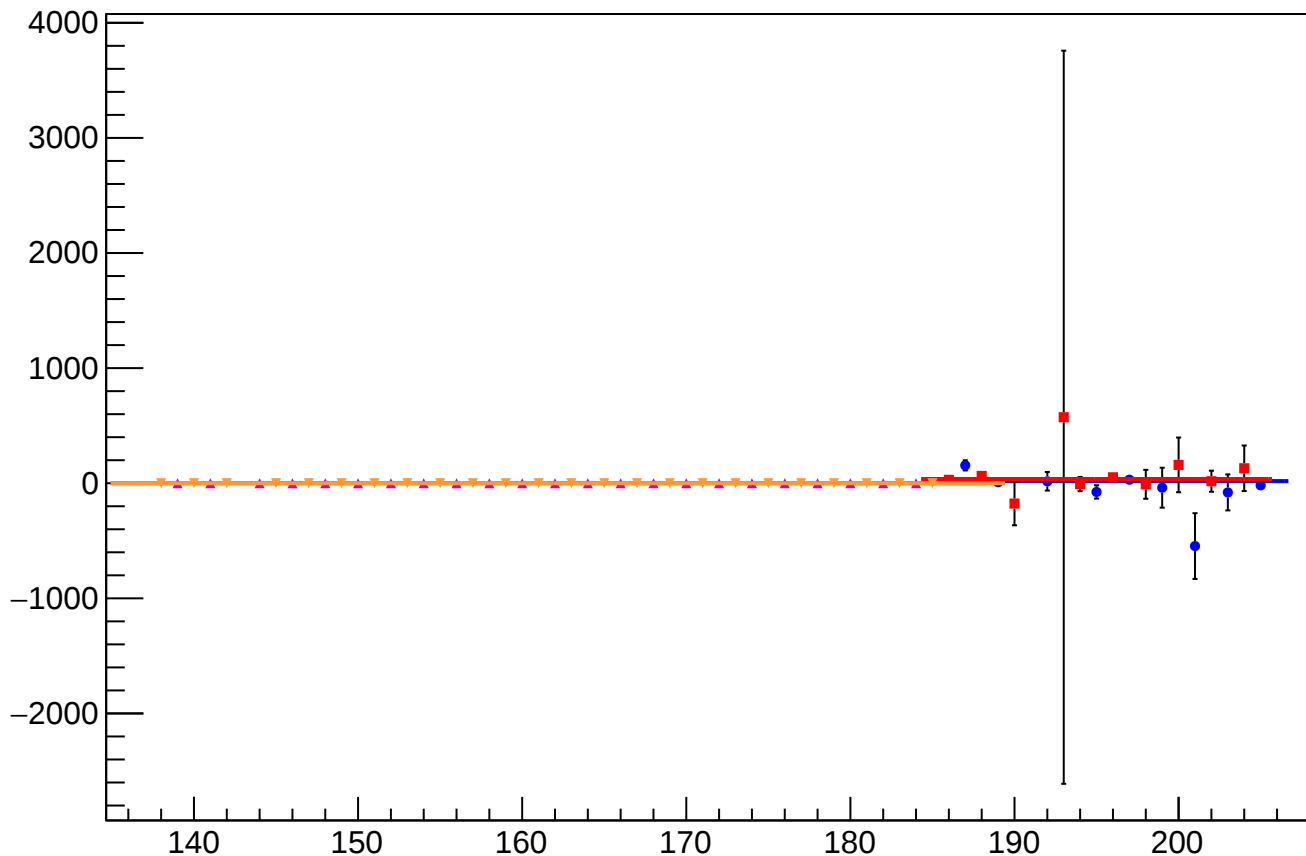
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.317 ± 0.018 $\chi^2/\text{NDF}: 9509.2/24$
 Left Out: -0.702 ± 0.008 $\chi^2/\text{NDF}: 53834.9/23$
 Right Out: -0.773 ± 0.018 $\chi^2/\text{NDF}: 92798.3/27$
 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: -0.228 ± 0.013 $\chi^2/\text{NDF}: 104059.7/52$
 In: -0.502 ± 0.007 $\chi^2/\text{NDF}: 56000.9/47$
 Out: -0.712 ± 0.007 $\chi^2/\text{NDF}: 146645.8/51$
 All: -0.607 ± 0.005 $\chi^2/\text{NDF}: 203089.8/99$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 18.511+/-16.892 χ^2/NDF : 17.7/8

Left Out: -0.037+/-0.018 χ^2/NDF : 35.4/23

Right Out: 36.949+/-9.899 χ^2/NDF : 4.6/9

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.024+/-0.013 χ^2/NDF : 71.7/46

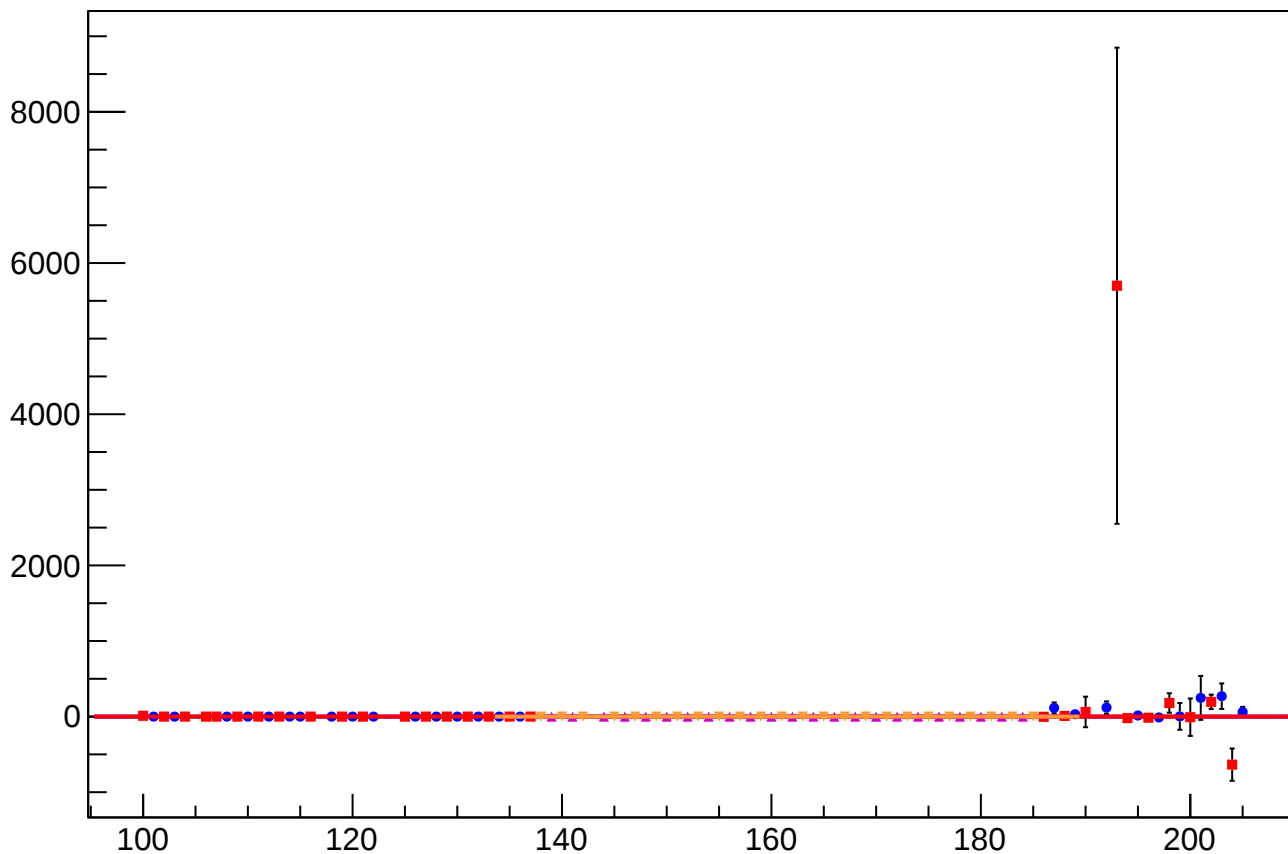
Right: 32.236+/-8.541 χ^2/NDF : 23.1/18

In: -0.010+/-0.018 χ^2/NDF : 54.0/31

Out: -0.037+/-0.018 χ^2/NDF : 53.9/33

All: -0.024+/-0.013 χ^2/NDF : 109.1/65

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013+/-0.023 χ^2/NDF : 21.9/24

Left Out: -0.073+/-0.014 χ^2/NDF : 27.8/23

Right Out: -0.088+/-0.025 χ^2/NDF : 31.5/27

Left In: -0.064+/-0.014 χ^2/NDF : 41.1/22

Left: -0.068+/-0.010 χ^2/NDF : 69.1/46

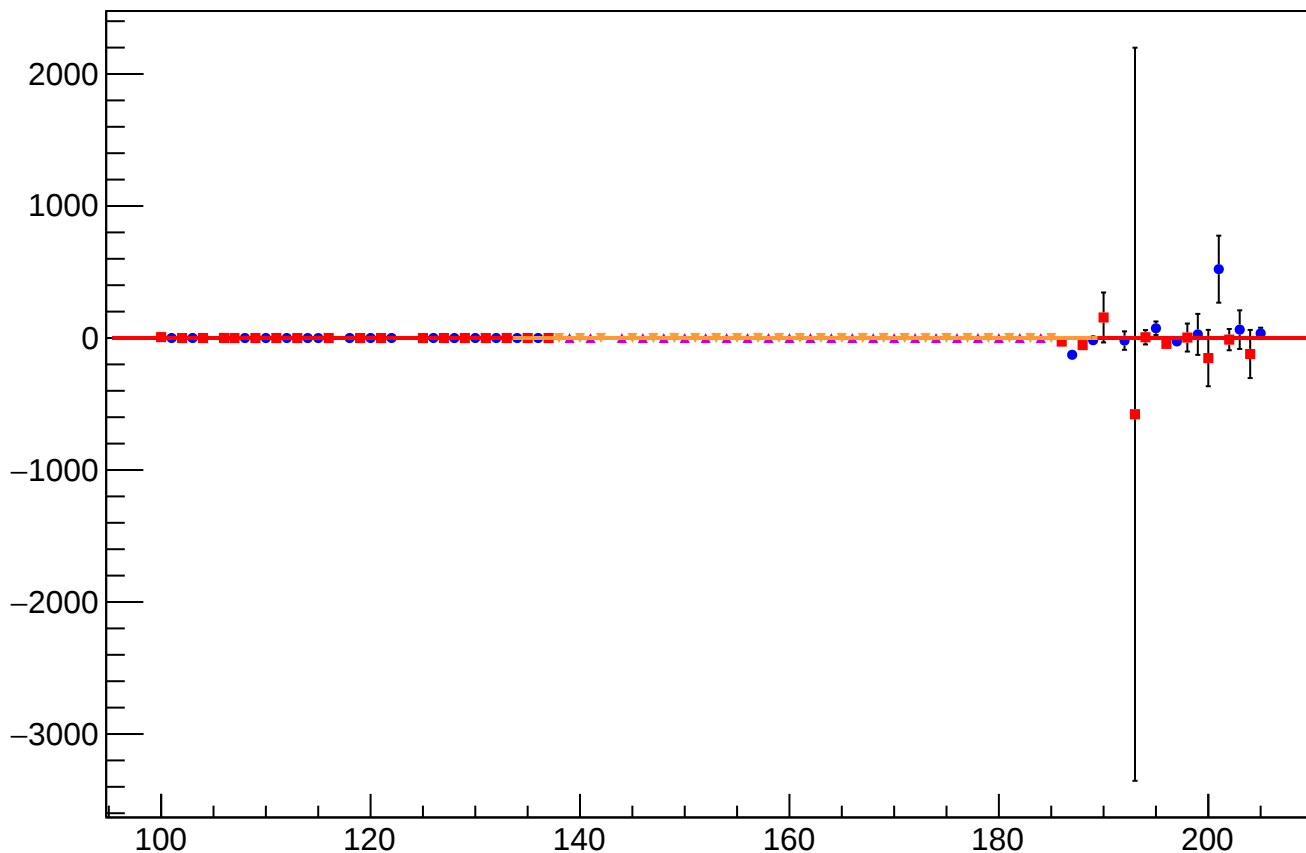
Right: -0.049+/-0.017 χ^2/NDF : 58.1/52

In: -0.050+/-0.012 χ^2/NDF : 66.3/47

Out: -0.076+/-0.012 χ^2/NDF : 59.6/51

All: -0.063+/-0.009 χ^2/NDF : 128.2/99

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 29.8/24

Left Out: 0.035+/-0.018 χ^2/NDF : 32.2/23

Right Out: 0.031+/-0.045 χ^2/NDF : 30.2/27

Left In: -0.009+/-0.018 χ^2/NDF : 36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.0/46

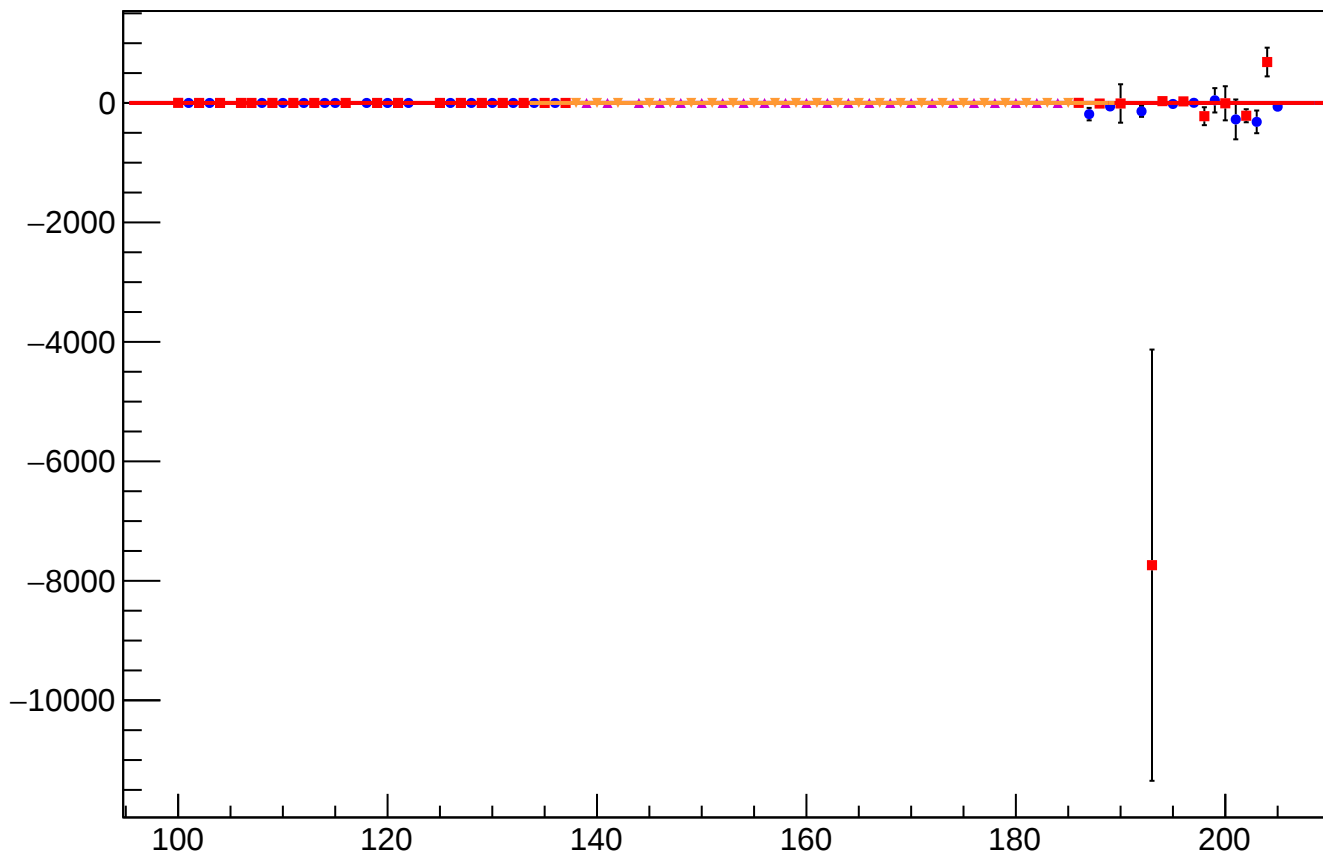
Right: 0.023+/-0.031 χ^2/NDF : 60.1/52

In: -0.005+/-0.017 χ^2/NDF : 66.9/47

Out: 0.035+/-0.017 χ^2/NDF : 62.4/51

All: 0.015+/-0.012 χ^2/NDF : 132.2/99

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 22.8/24

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 27.3/27

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

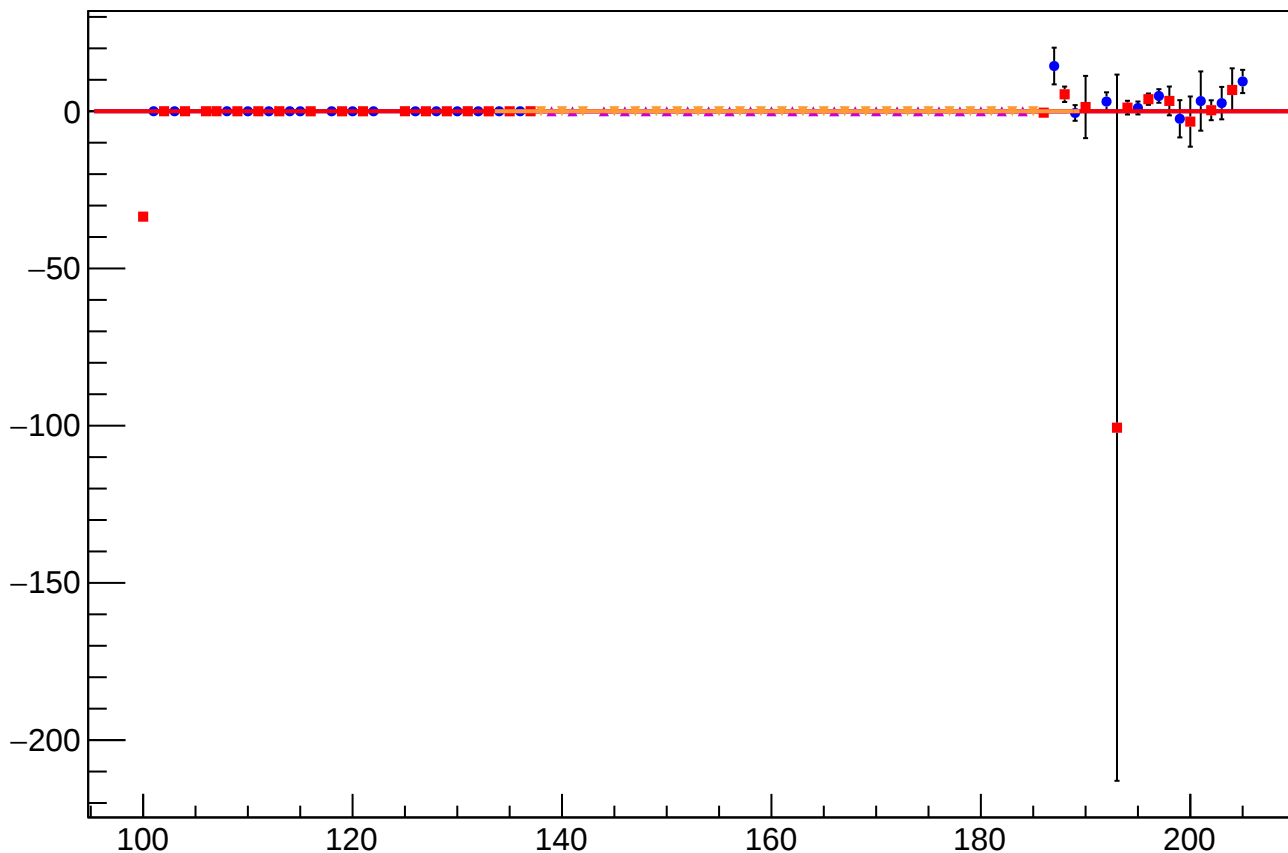
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 56.1/52

In: 0.053 $\pm$ 0.014 χ^2 /NDF:71.4/47

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:55.3/51

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 130.3/99

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 41.2/24

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26521.2/27

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

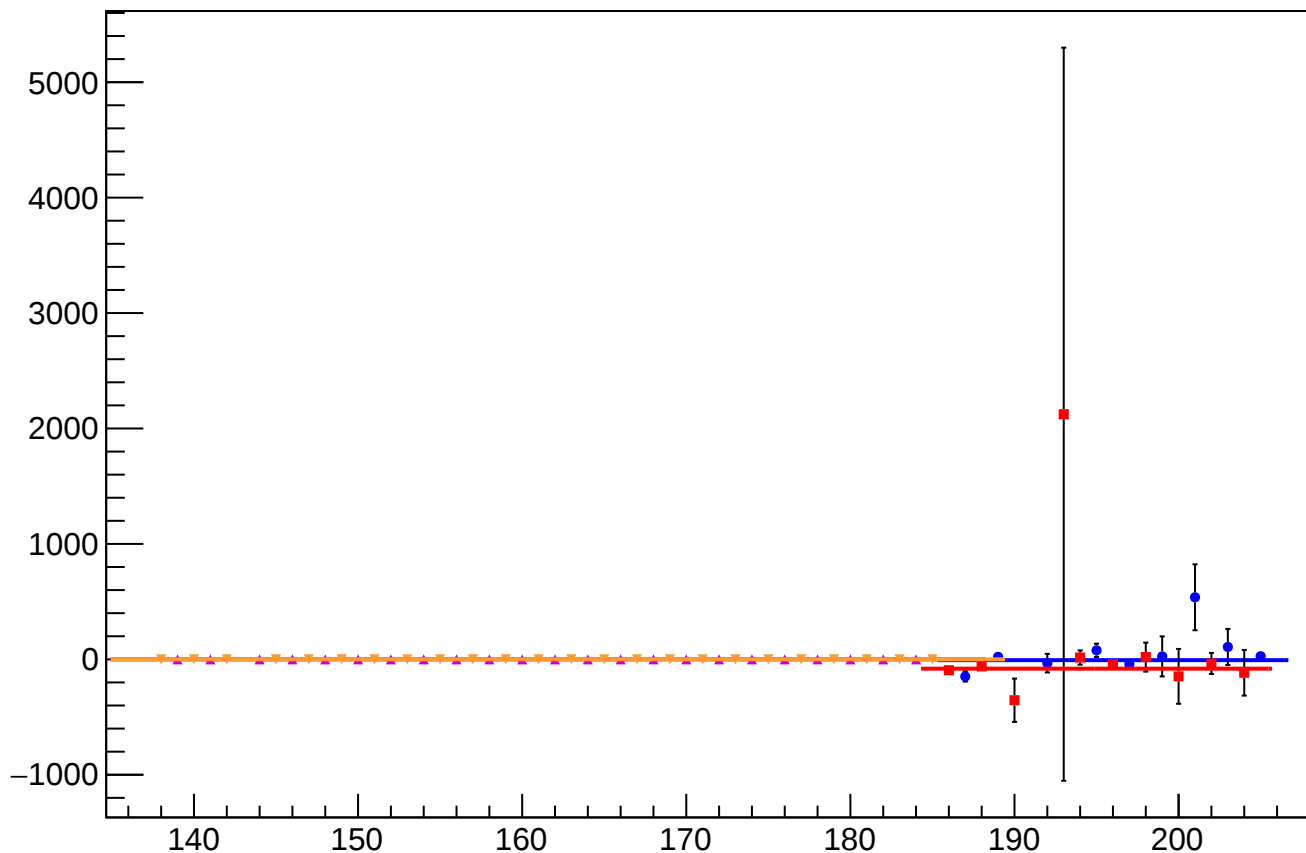
Right: -0.006 ± 0.001 χ^2/NDF : 26562.4/52

In: -0.001 ± 0.001 χ^2/NDF : 75.2/47

Out: -0.001 ± 0.001 χ^2/NDF : 26559.9/51

All: -0.001 ± 0.000 χ^2/NDF : 26635.1/99

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.167 ± 16.885 $\chi^2/\text{NDF}: 19.2/8$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -80.807 ± 9.902 $\chi^2/\text{NDF}: 9.0/9$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

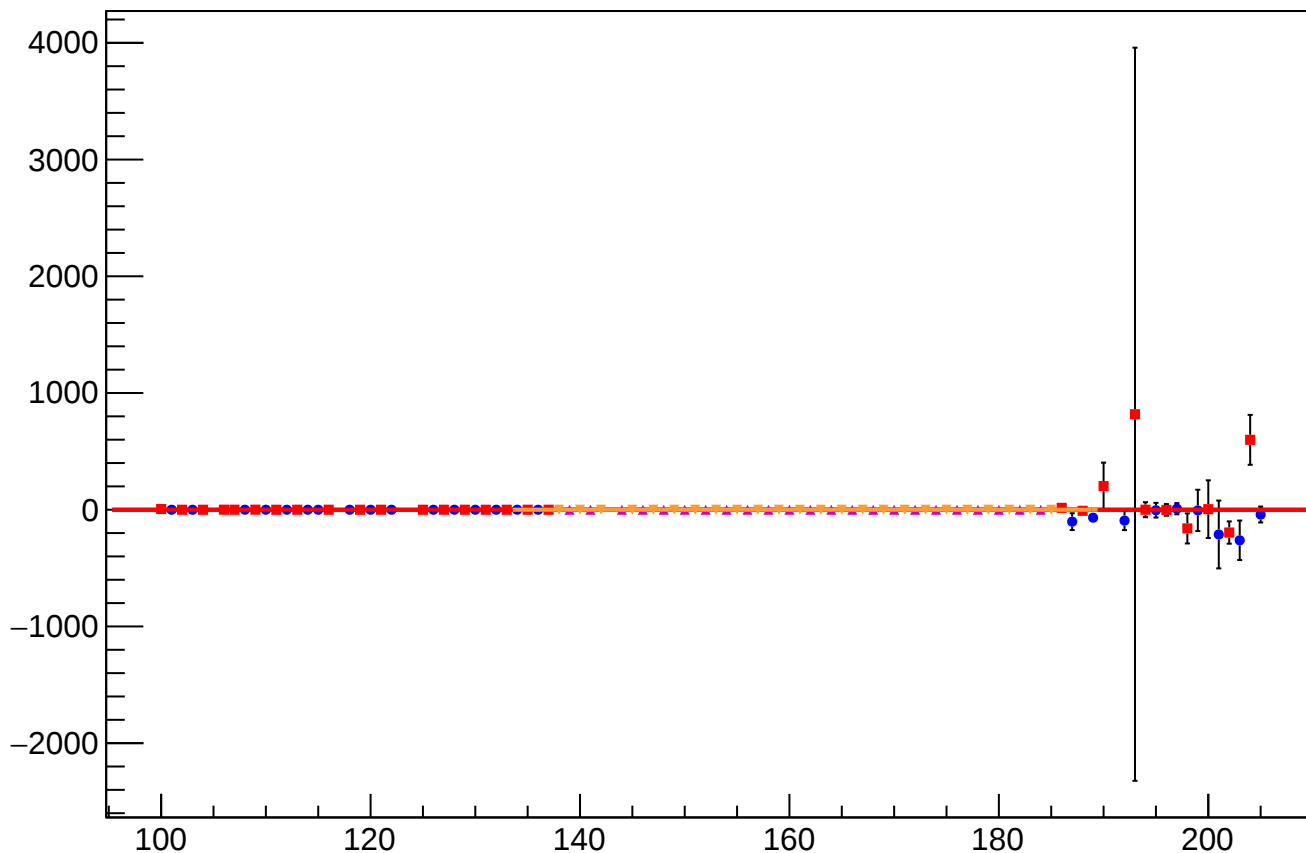
Right: -61.963 ± 8.541 $\chi^2/\text{NDF}: 42.3/18$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 54.4/31$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 112.9/33$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 170.2/65$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 36.3/24

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 44.6/27

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

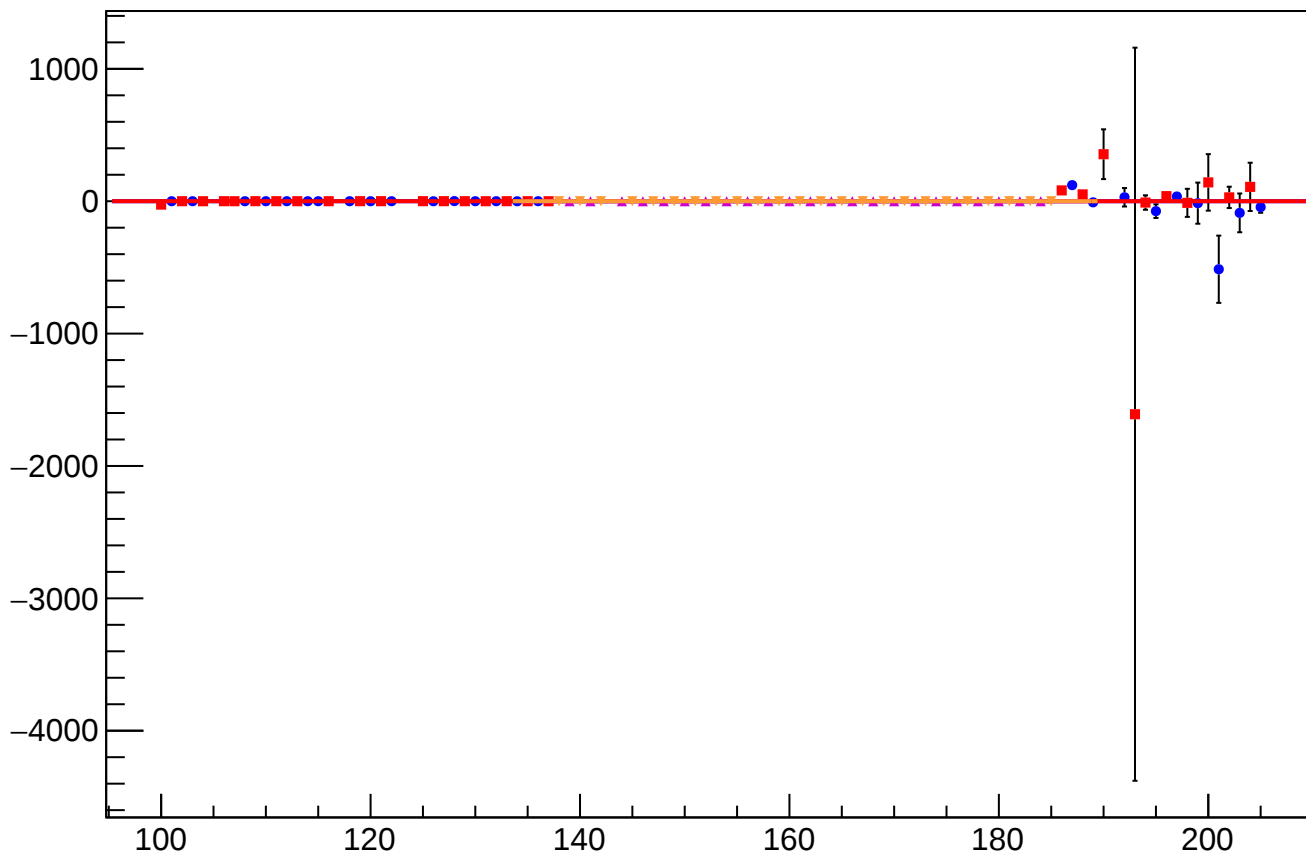
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 81.7/52

In: 0.006 $\pm$ 0.012 χ^2 /NDF:85.9/47

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:77.0/51

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 162.9/99

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 50.0/24

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 108.0/27

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

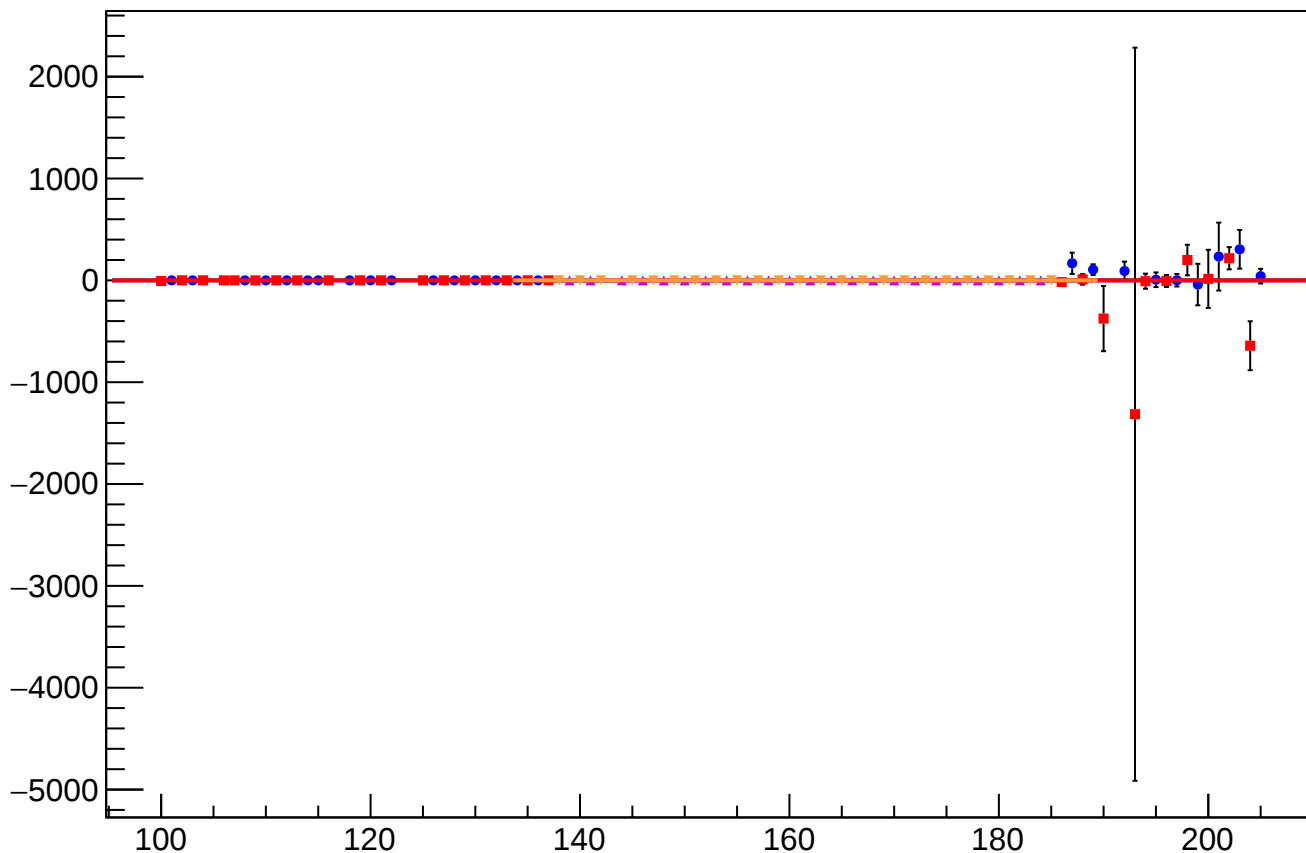
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 158.4/52

In: 0.040 $\pm$ 0.017 χ^2 /NDF:94.5/47

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:152.9/51

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 248.7/99

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 35.7/24

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 41.3/27

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

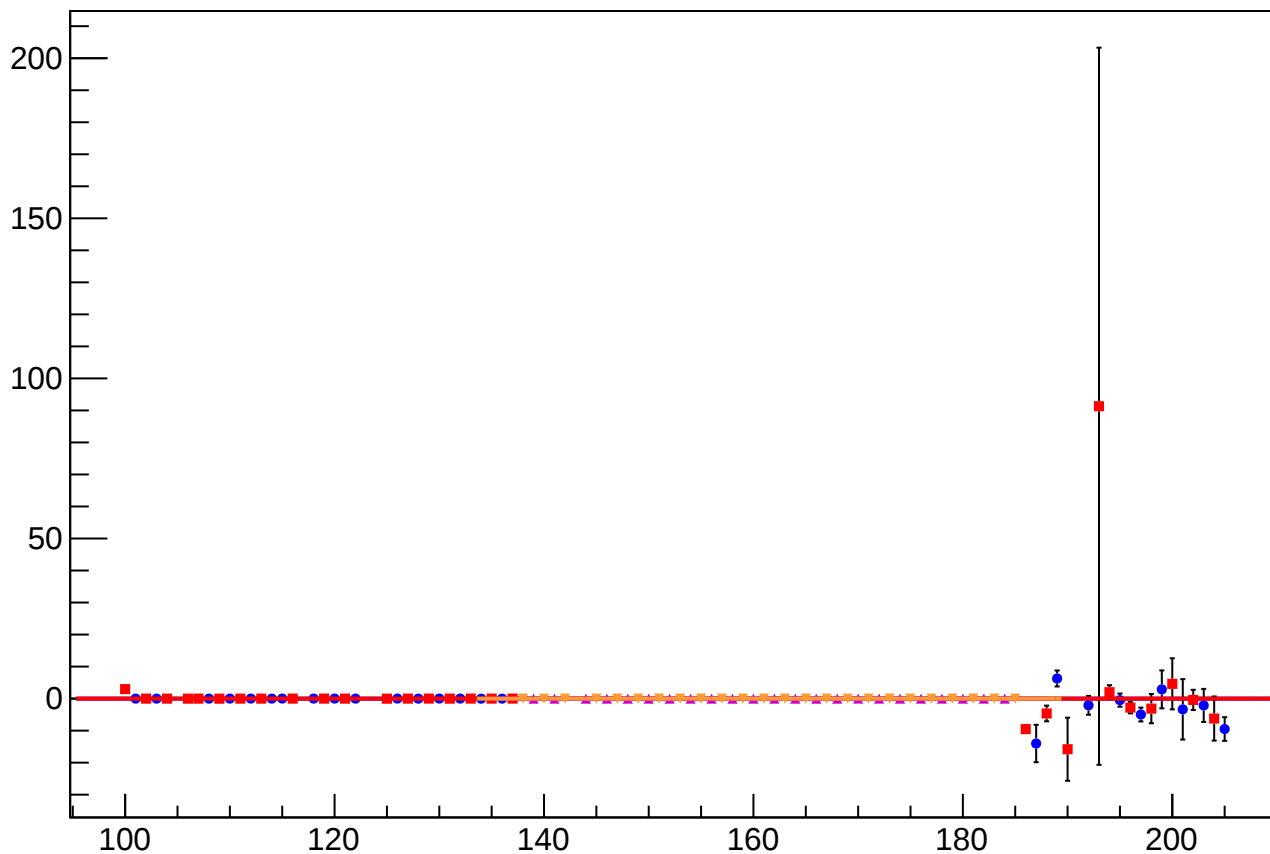
Right: -0.027 ± 0.020 χ^2/NDF : 77.8/52

In: 0.002 ± 0.014 χ^2/NDF : 86.1/47

Out: 0.005 ± 0.014 χ^2/NDF : 78.9/51

All: 0.004 ± 0.010 χ^2/NDF : 165.0/99

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2/NDF : 52.5/24

Left Out: -0.008+/-0.001 χ^2/NDF : 32.0/23

Right Out: -0.006+/-0.001 χ^2/NDF : 214.6/27

Left In: -0.009+/-0.001 χ^2/NDF : 37.2/22

Left: -0.008+/-0.001 χ^2/NDF : 69.4/46

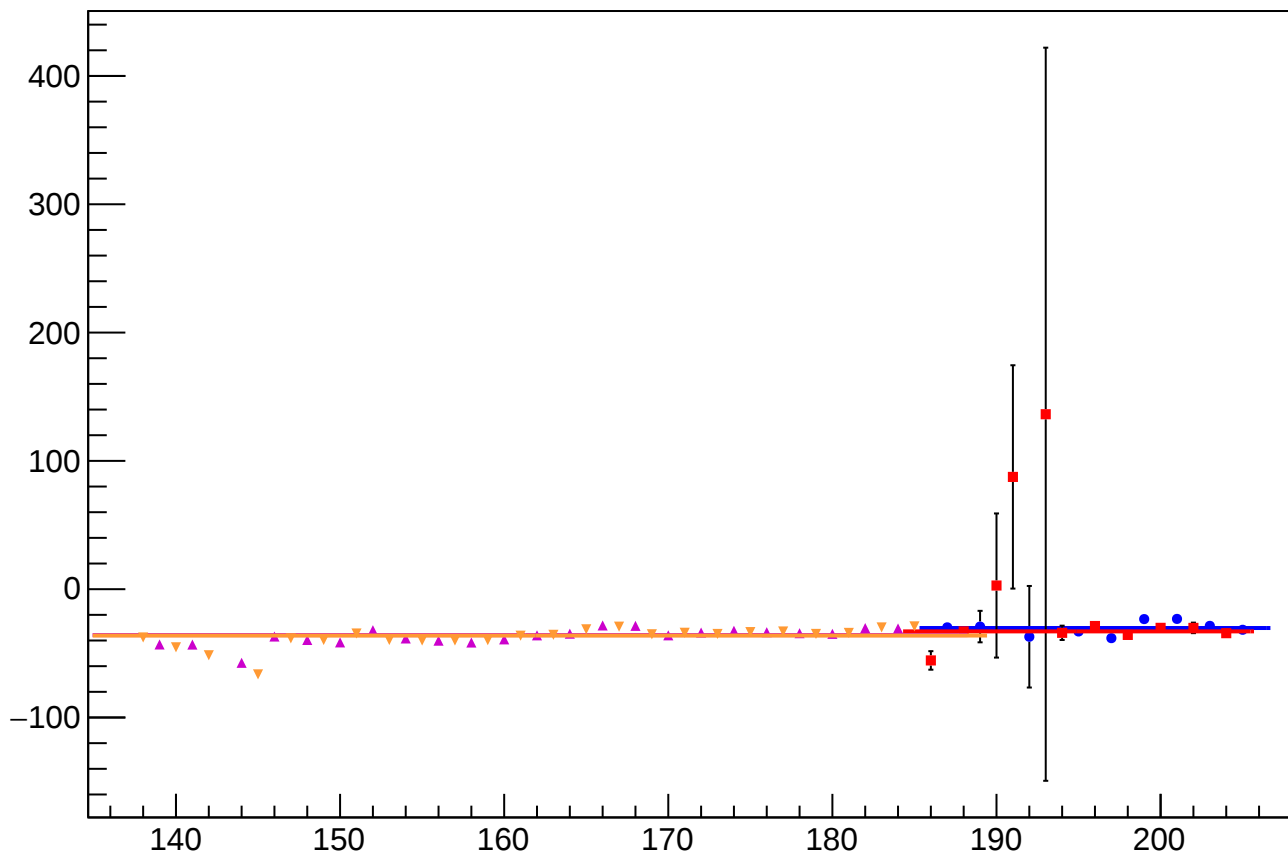
Right: -0.006+/-0.001 χ^2/NDF : 267.1/52

In: -0.008+/-0.001 χ^2/NDF : 92.3/47

Out: -0.008+/-0.001 χ^2/NDF : 248.6/51

All: -0.008+/-0.000 χ^2/NDF : 341.1/99

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.262 ± 0.924 χ^2/NDF : 20.0/8

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -32.884 ± 0.870 χ^2/NDF : 16.9/10

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

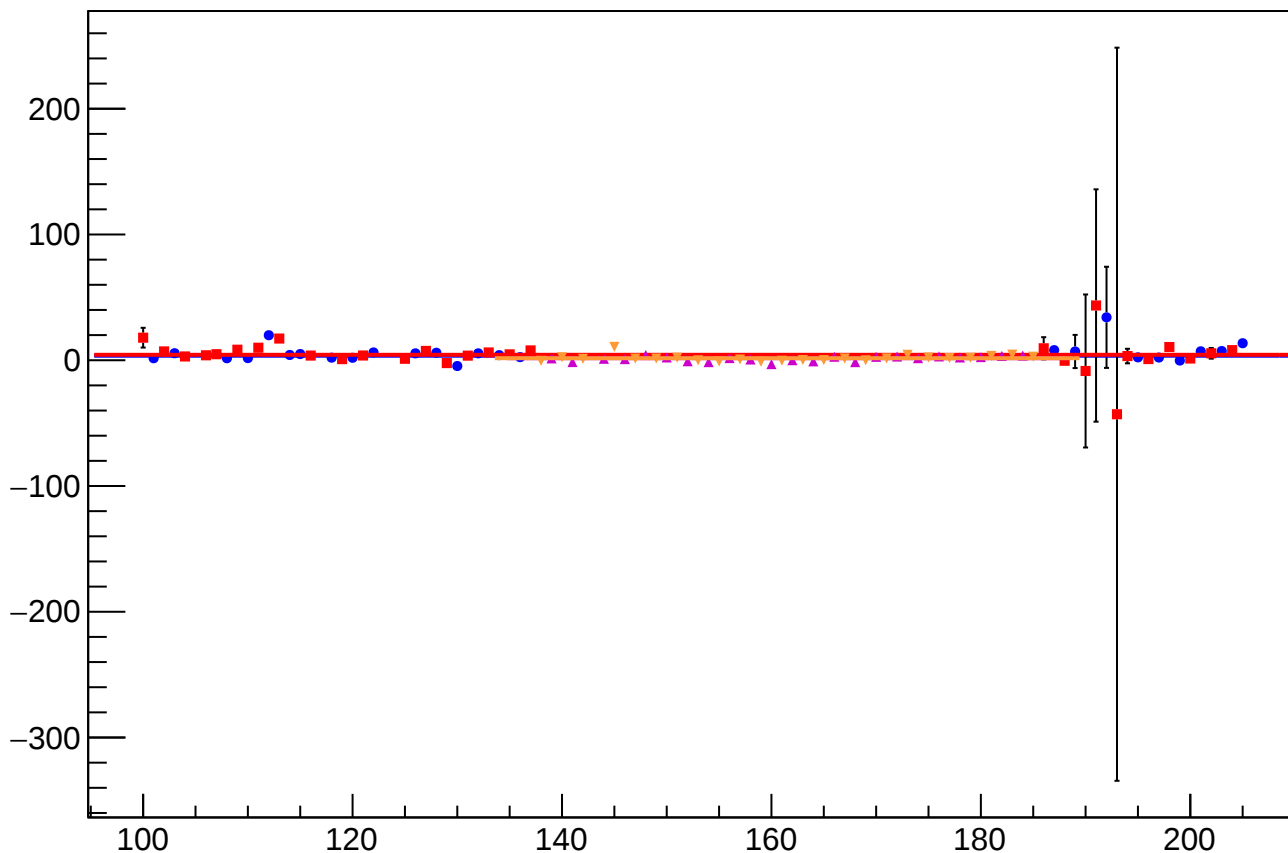
Right: -31.652 ± 0.633 χ^2/NDF : 41.2/19

In: -35.552 ± 0.187 χ^2/NDF : 908.3/31

Out: -35.970 ± 0.187 χ^2/NDF : 1145.0/34

All: -35.761 ± 0.133 χ^2/NDF : 2055.8/66

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.617 $\pm$ 0.217 χ^2 /NDF: 455.4/24

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.325 $\pm$ 0.221 χ^2 /NDF: 366.6/28

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

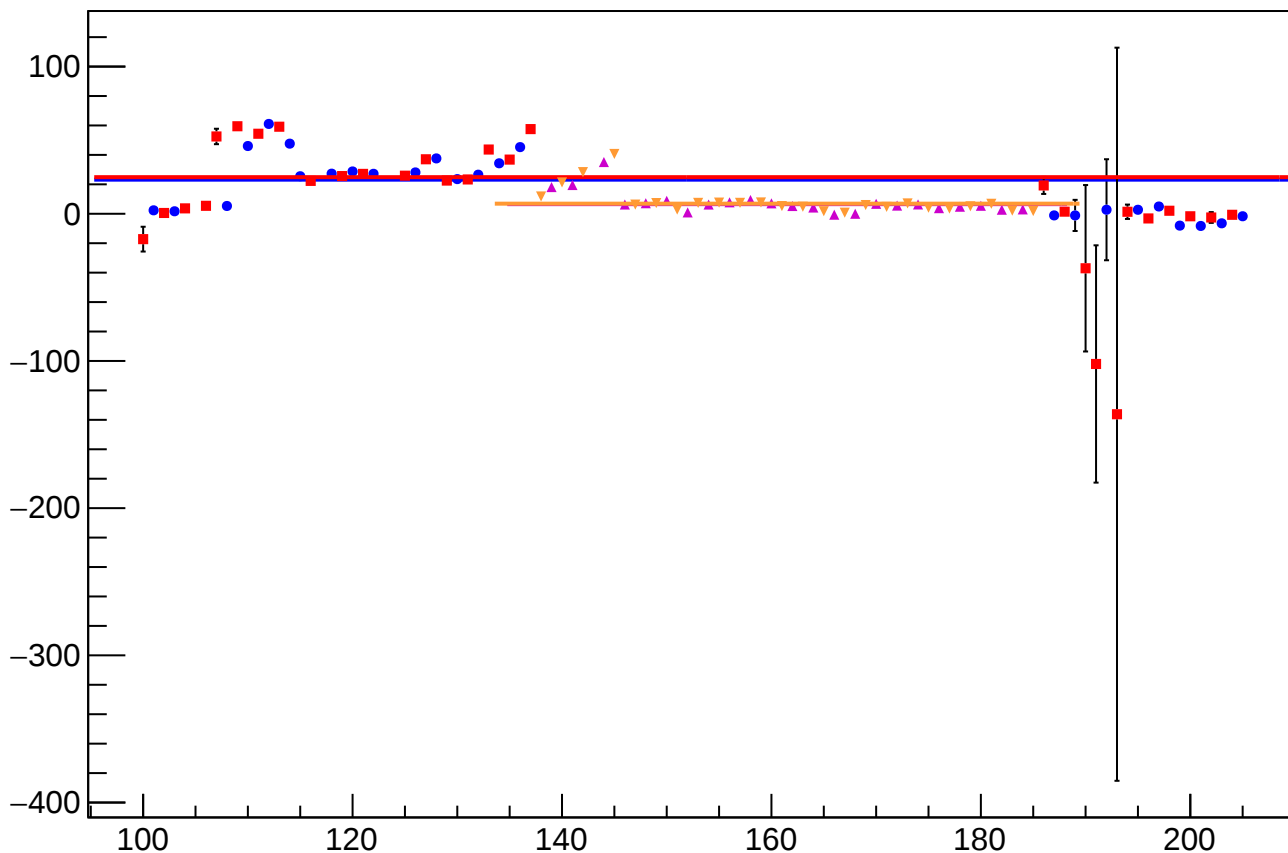
Right: 3.964 $\pm$ 0.155 χ^2 /NDF: 827.2/53

In: 2.277 $\pm$ 0.123 χ^2 /NDF:674.8/47

Out: 2.465 $\pm$ 0.123 χ^2 /NDF:635.4/52

All: 2.371 $\pm$ 0.087 χ^2 /NDF: 1311.4/100

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 23.180 $\pm$ 0.375 χ^2 /NDF: 2628.8/24

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 24.863 $\pm$ 0.367 χ^2 /NDF: 3093.6/28

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

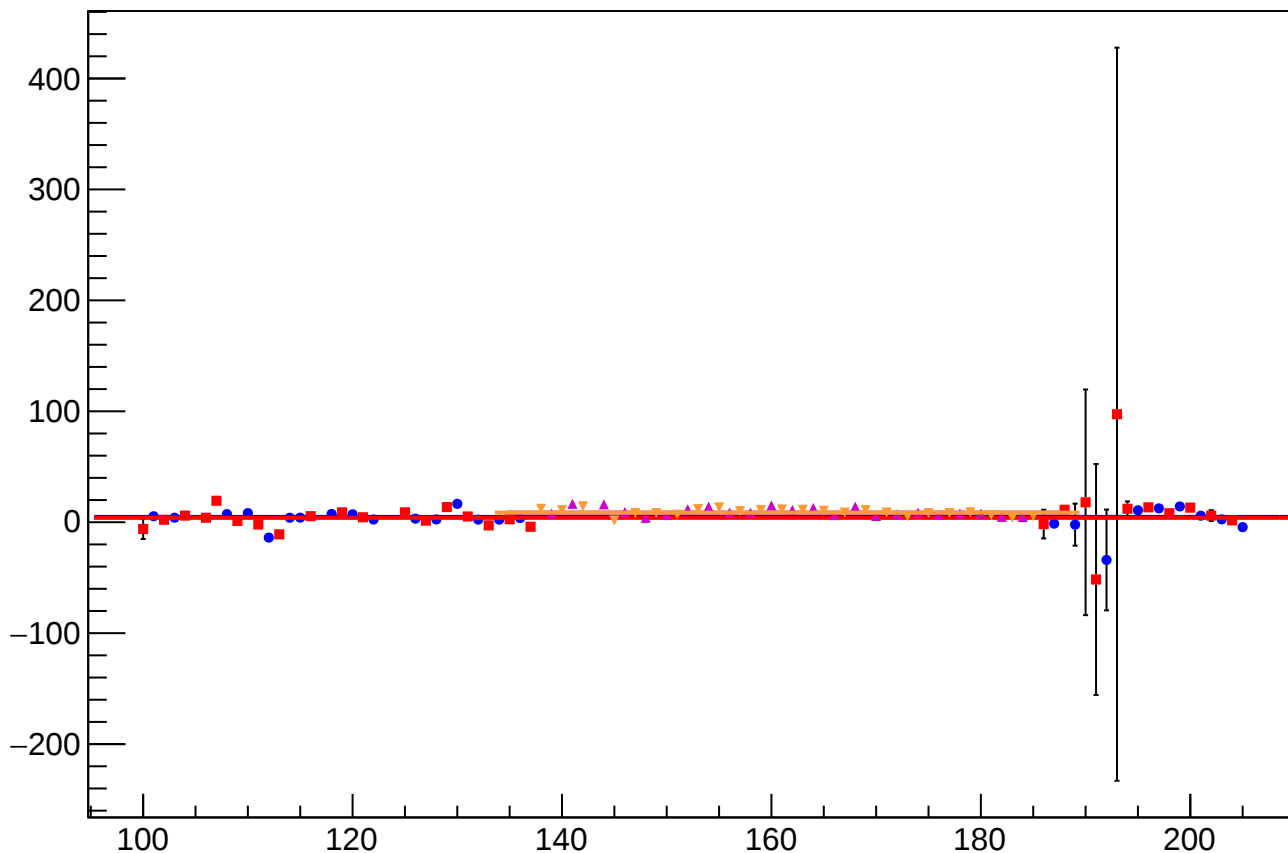
Right: 24.040 $\pm$ 0.263 χ^2 /NDF: 5732.6/53

In: 9.943 $\pm$ 0.170 χ^2 /NDF:5218.0/47

Out: 10.706 $\pm$ 0.170 χ^2 /NDF:6276.2/52

All: 10.325 $\pm$ 0.120 χ^2 /NDF: 11504.3/100

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.786 $\pm$ 0.251 χ^2 /NDF: 569.9/24

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.960 $\pm$ 0.255 χ^2 /NDF: 587.6/28

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

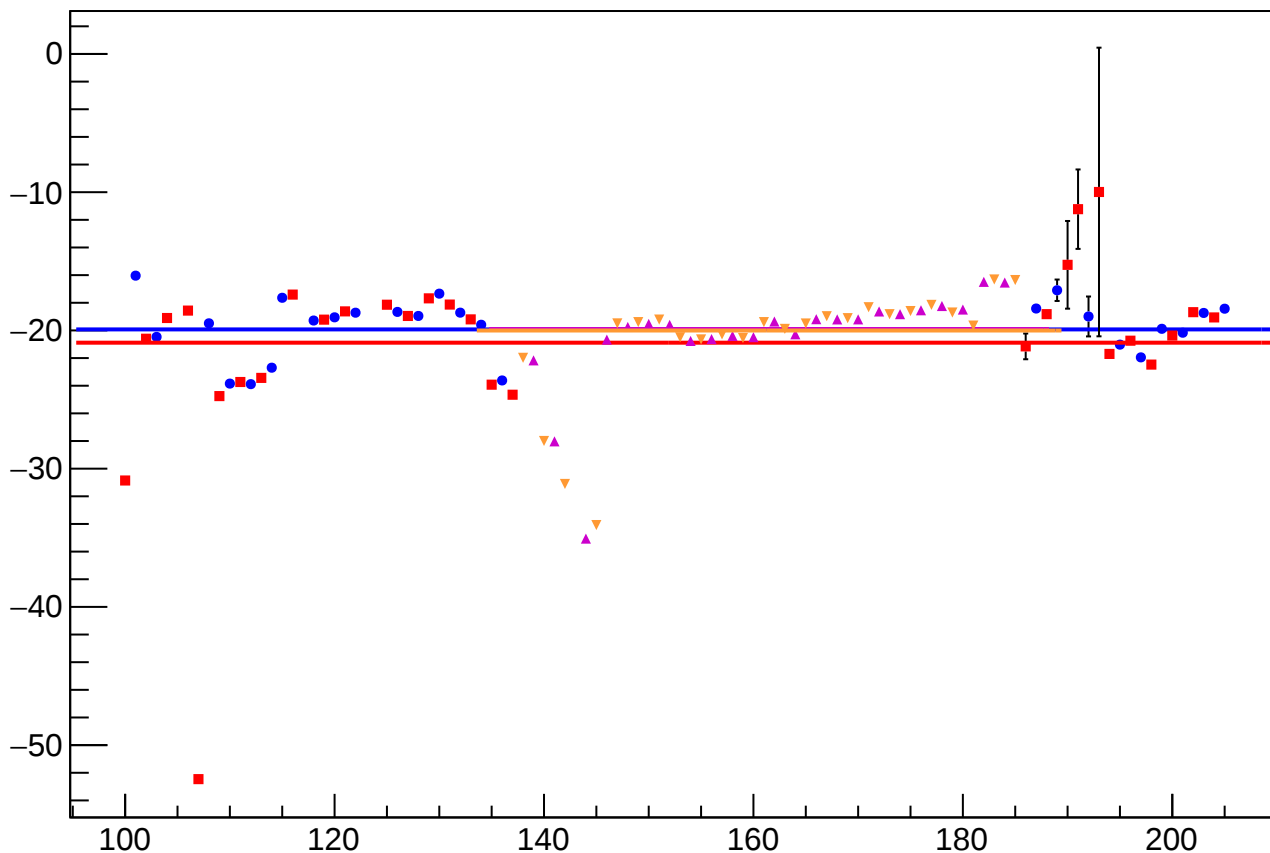
Right: 4.380 $\pm$ 0.179 χ^2 /NDF: 1162.8/53

In: 7.443 $\pm$ 0.141 χ^2 /NDF:1170.9/47

Out: 7.250 $\pm$ 0.141 χ^2 /NDF:1068.0/52

All: 7.347 $\pm$ 0.100 χ^2 /NDF: 2239.8/100

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.926+/-0.015 χ^2/NDF : 26596.1/24

Left Out: -20.006+/-0.008 χ^2/NDF : 171763.9/23

Right Out: -20.887+/-0.015 χ^2/NDF : 94815.9/28

Left In: -19.898+/-0.008 χ^2/NDF : 144191.9/22

Left: -19.951+/-0.006 χ^2/NDF : 316049.4/46

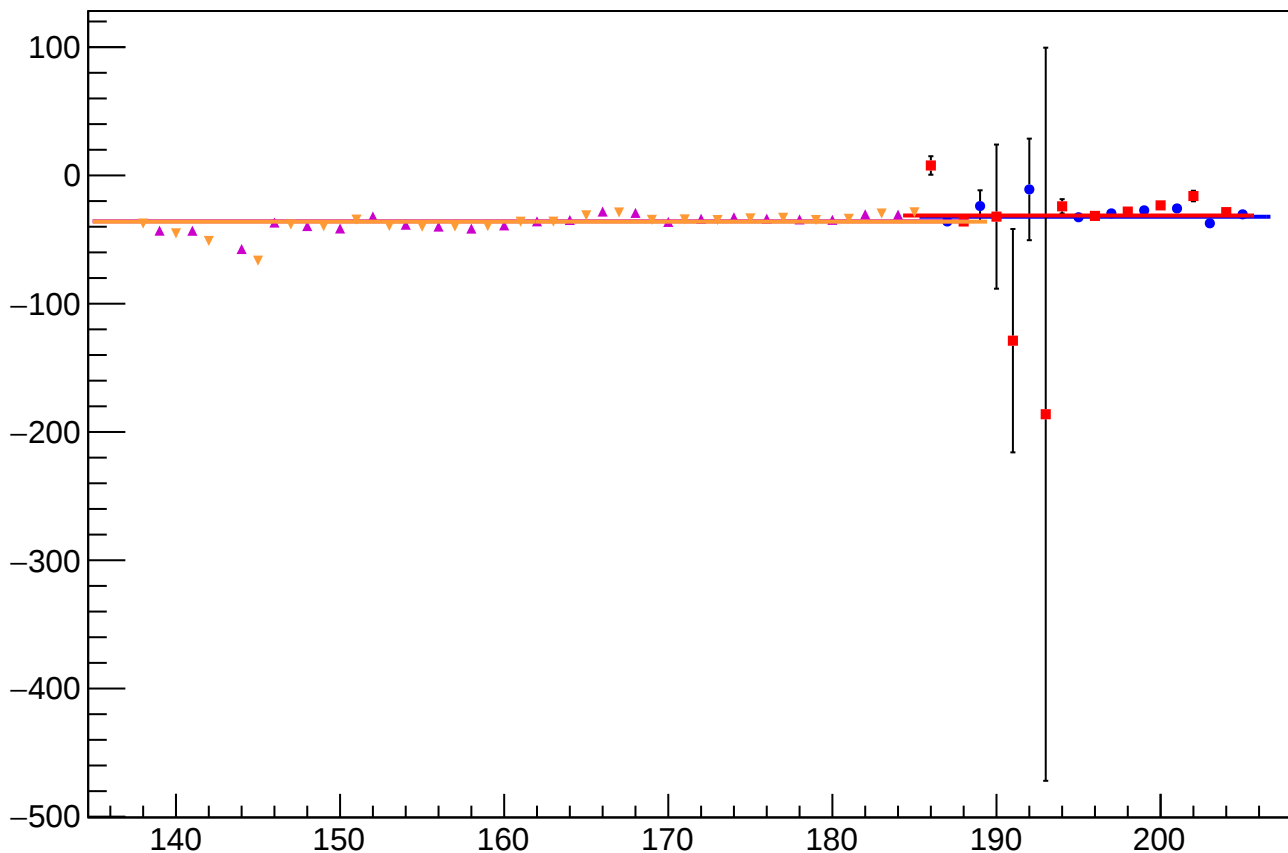
Right: -20.403+/-0.011 χ^2/NDF : 123468.9/53

In: -19.904+/-0.007 χ^2/NDF : 170790.8/47

Out: -20.196+/-0.007 χ^2/NDF : 269274.7/52

All: -20.049+/-0.005 χ^2/NDF : 440944.2/100

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.216 $\pm$ 0.927 χ^2 /NDF: 17.2/8

Left Out: -36.031 $\pm$ 0.192 χ^2 /NDF:1121.3/23

Right Out: -31.246 $\pm$ 0.872 χ^2 /NDF: 69.6/10

Left In: -35.766 $\pm$ 0.191 χ^2 /NDF:842.6/22

Left: -35.898 $\pm$ 0.135 χ^2 /NDF: 1964.8/46

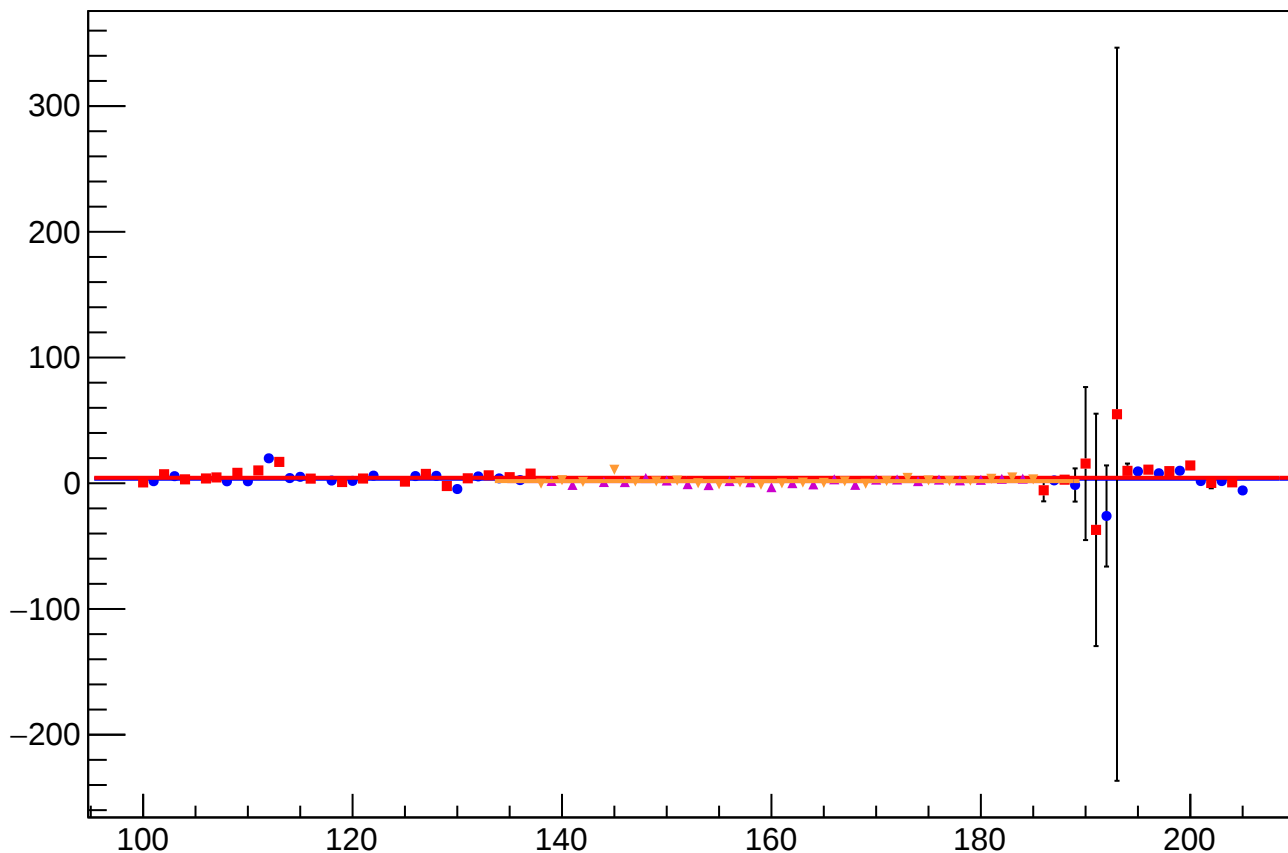
Right: -31.701 $\pm$ 0.635 χ^2 /NDF: 87.4/19

In: -35.621 $\pm$ 0.187 χ^2 /NDF:873.8/31

Out: -35.810 $\pm$ 0.187 χ^2 /NDF:1219.6/34

All: -35.716 $\pm$ 0.132 χ^2 /NDF: 2093.9/66

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.577 $\pm$ 0.217 χ^2 /NDF: 455.5/24

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF: 168.2/23

Right Out: 4.358 $\pm$ 0.218 χ^2 /NDF: 372.0/28

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

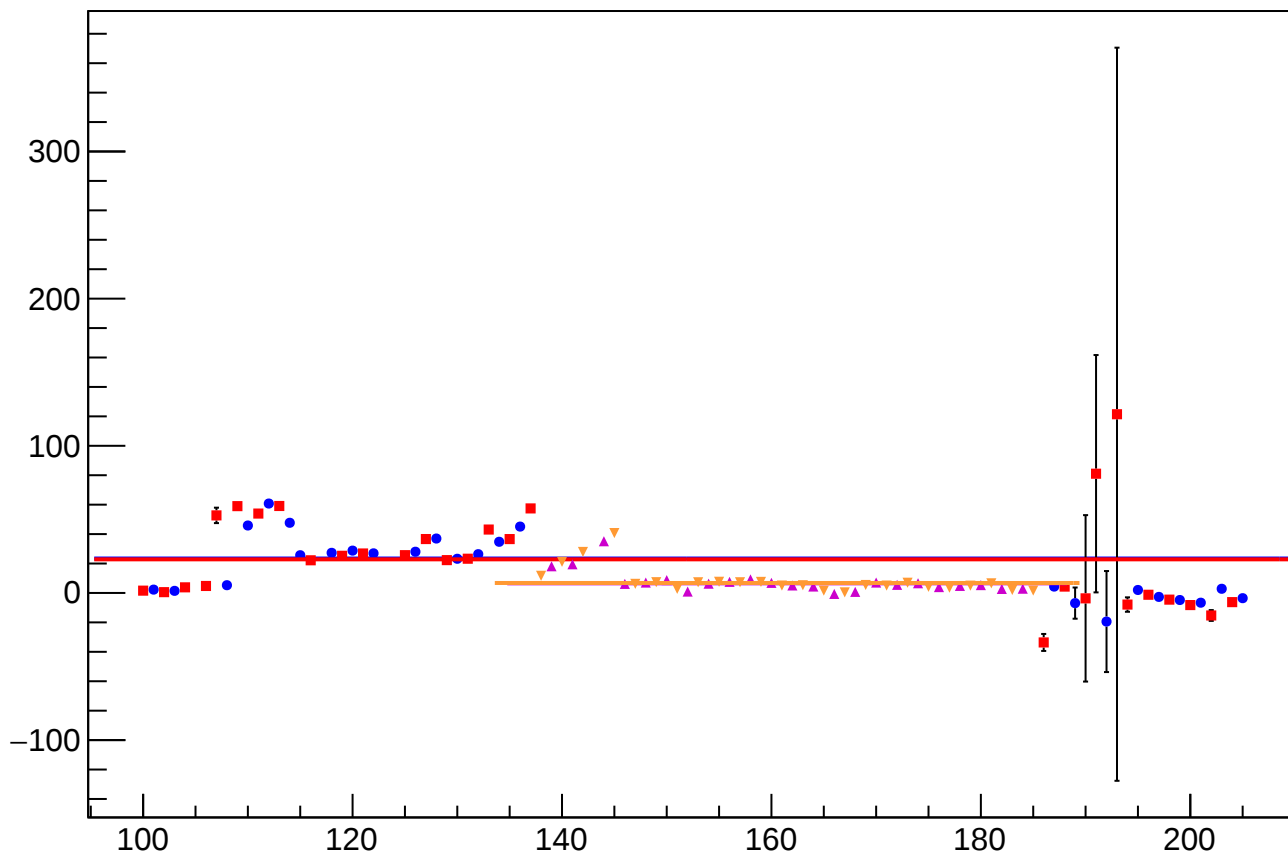
Right: 3.967 $\pm$ 0.154 χ^2 /NDF: 833.9/53

In: 2.307 $\pm$ 0.123 χ^2 /NDF: 669.0/47

Out: 2.555 $\pm$ 0.122 χ^2 /NDF: 640.5/52

All: 2.432 $\pm$ 0.087 χ^2 /NDF: 1311.5/100

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 23.393+/-0.375 χ^2/NDF : 2493.9/24

Left Out: 6.779+/-0.191 χ^2/NDF :1297.7/23

Right Out: 22.841+/-0.354 χ^2/NDF : 3486.8/28

Left In: 6.532+/-0.190 χ^2/NDF :1018.2/22

Left: 6.655+/-0.135 χ^2/NDF : 2316.7/46

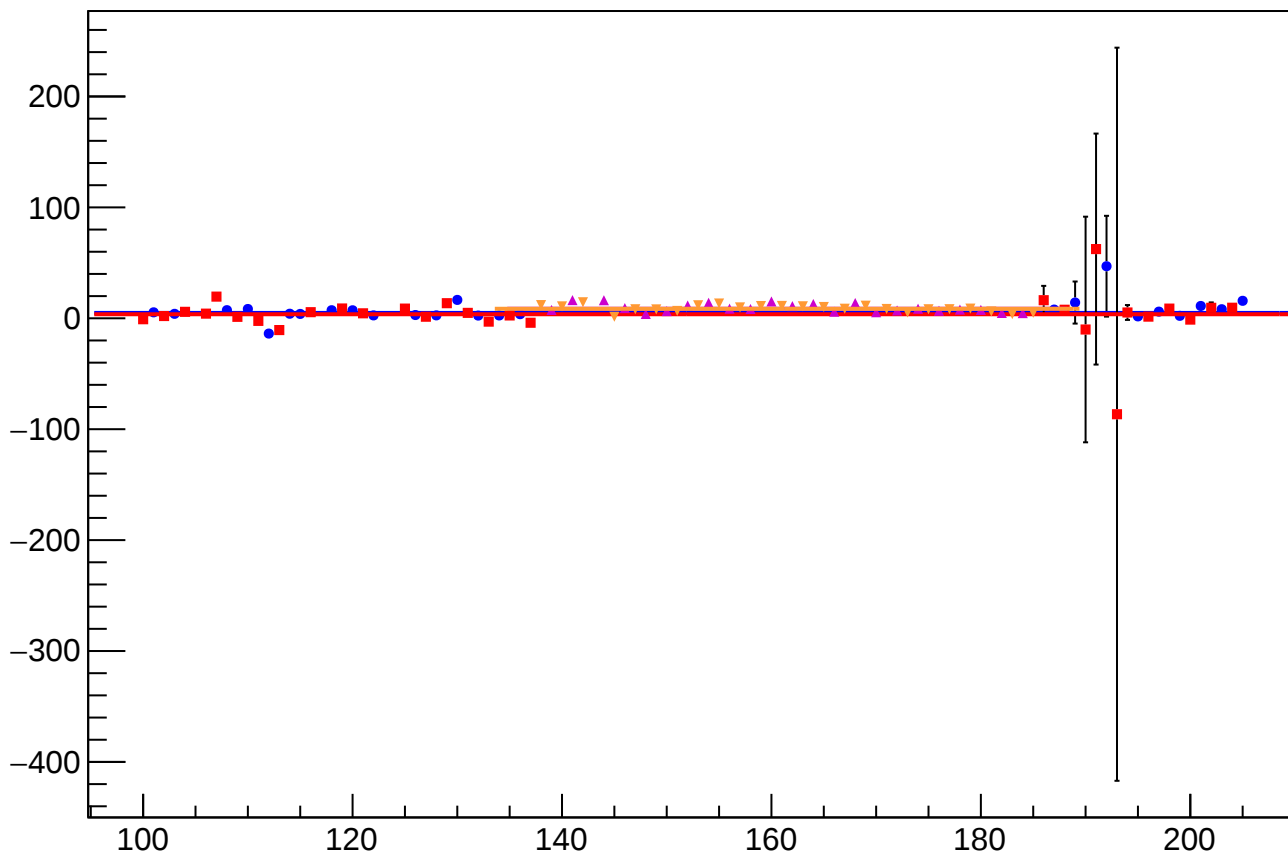
Right: 23.101+/-0.258 χ^2/NDF : 5981.8/53

In: 9.979+/-0.170 χ^2/NDF :5117.5/47

Out: 10.408+/-0.168 χ^2/NDF :6377.5/52

All: 10.195+/-0.119 χ^2/NDF : 11498.2/100

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.837 ± 0.250 $\chi^2/\text{NDF}: 558.6/24$

Left Out: 8.585 ± 0.169 $\chi^2/\text{NDF}: 245.5/23$

Right Out: 3.647 ± 0.251 $\chi^2/\text{NDF}: 581.2/28$

Left In: 8.585 ± 0.170 $\chi^2/\text{NDF}: 441.8/22$

Left: 8.585 ± 0.120 $\chi^2/\text{NDF}: 687.3/46$

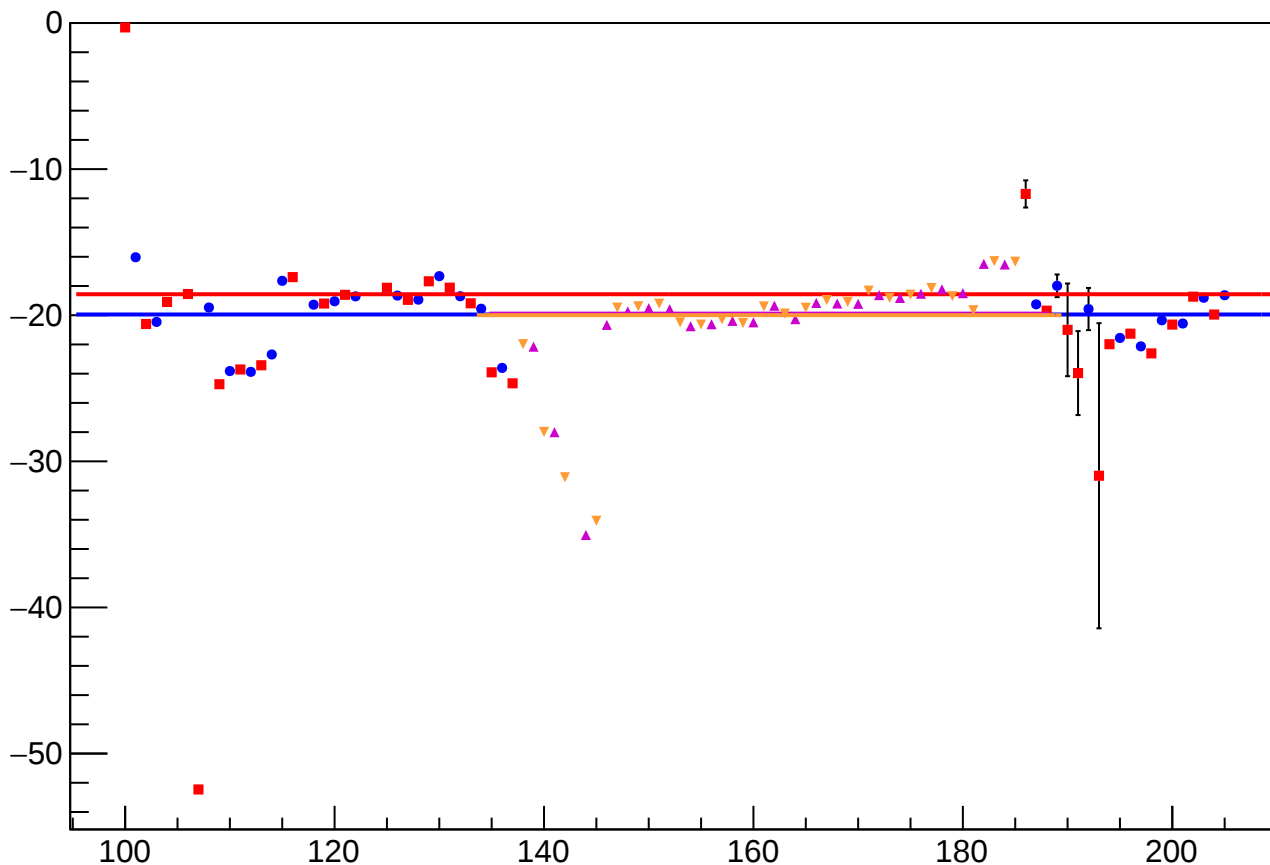
Right: 4.243 ± 0.177 $\chi^2/\text{NDF}: 1151.1/53$

In: 7.402 ± 0.141 $\chi^2/\text{NDF}: 1153.6/47$

Out: 7.045 ± 0.140 $\chi^2/\text{NDF}: 1093.5/52$

All: 7.223 ± 0.099 $\chi^2/\text{NDF}: 2250.3/100$

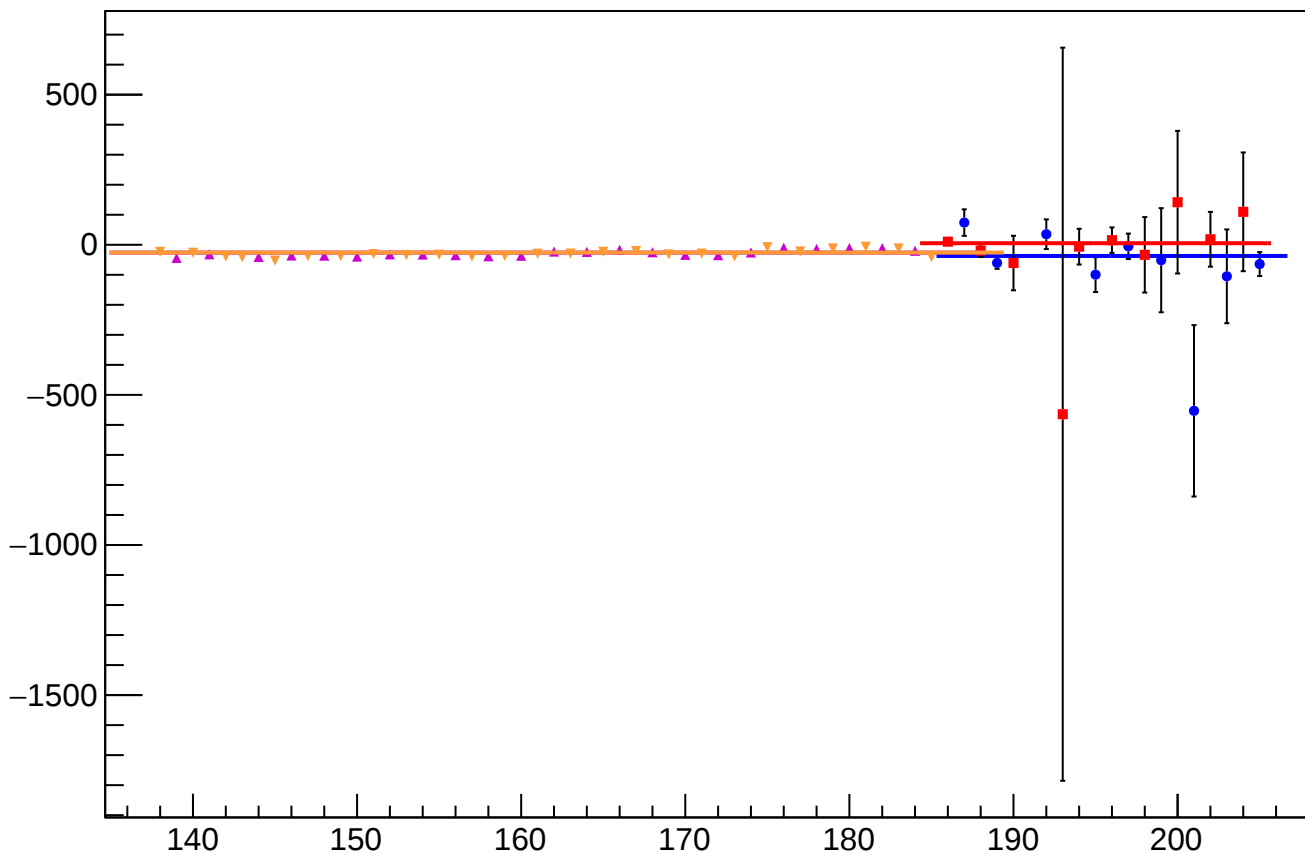
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.949 $\pm$ 0.015 χ^2 /NDF: 26731.0/24
 Left Out: -19.998 $\pm$ 0.008 χ^2 /NDF: 171944.6/23
 Right Out: -18.563 $\pm$ 0.014 χ^2 /NDF: 303716.5/28
 Left In: -19.890 $\pm$ 0.008 χ^2 /NDF: 144055.2/22

Left: -19.944 $\pm$ 0.006 χ^2 /NDF: 316093.4/46
 Right: -19.221 $\pm$ 0.010 χ^2 /NDF: 334981.3/53
 In: -19.903 $\pm$ 0.007 χ^2 /NDF: 170798.3/47
 Out: -19.659 $\pm$ 0.007 χ^2 /NDF: 483479.0/52
 All: -19.780 $\pm$ 0.005 χ^2 /NDF: 654901.0/100

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -37.206 ± 14.077 χ^2/NDF : 15.5/8

Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24

Right Out: 5.194 ± 8.251 χ^2/NDF : 3.3/9

Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47

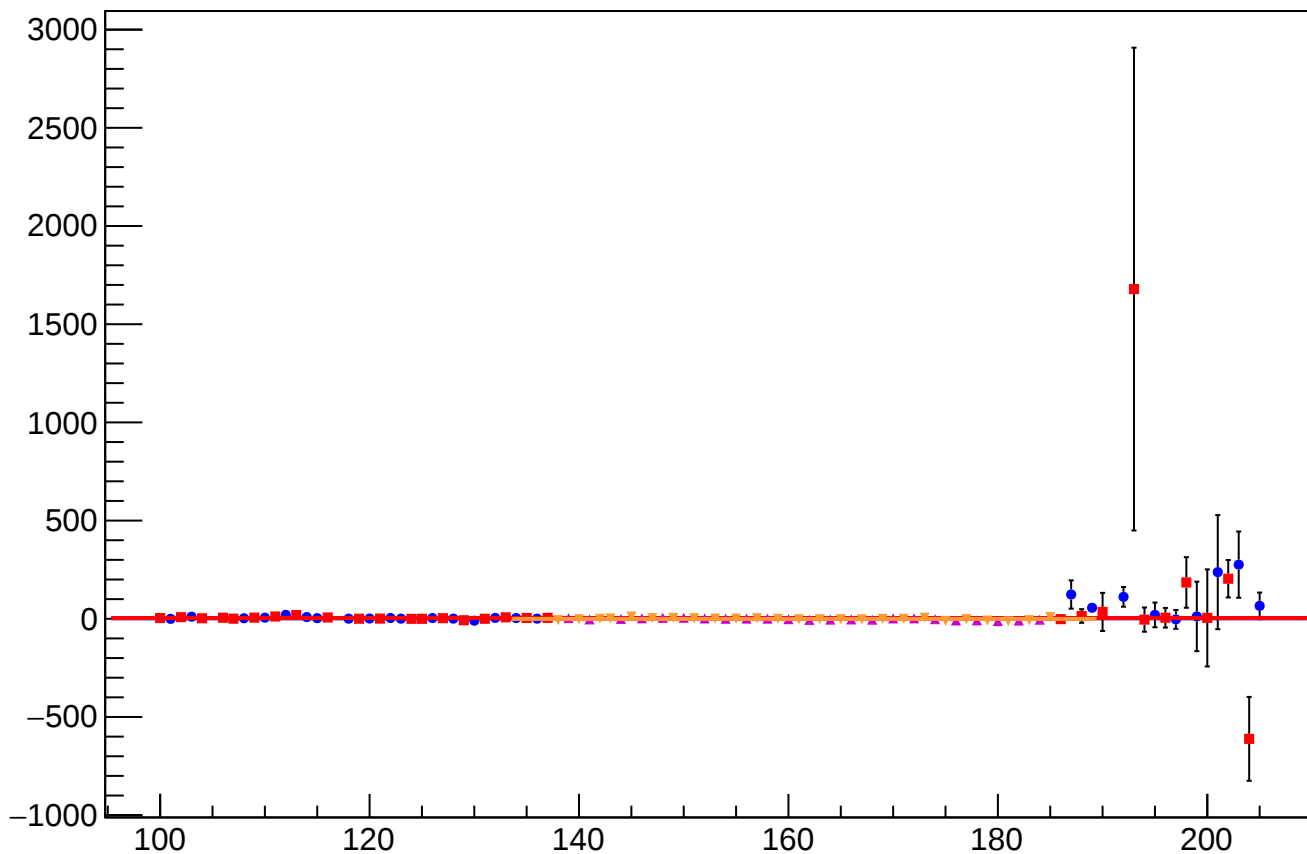
Right: -5.648 ± 7.118 χ^2/NDF : 25.5/18

In: -26.054 ± 0.195 χ^2/NDF : 3295.6/31

Out: -25.868 ± 0.192 χ^2/NDF : 4175.4/34

All: -25.959 ± 0.137 χ^2/NDF : 7471.5/66

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.474 ± 0.315 χ^2/NDF : 311.8/25

Left Out: -0.654 ± 0.146 χ^2/NDF : 1320.8/24

Right Out: 3.713 ± 0.327 χ^2/NDF : 286.1/28

Left In: -0.863 ± 0.150 χ^2/NDF : 1066.5/22

Left: -0.756 ± 0.105 χ^2/NDF : 2388.3/47

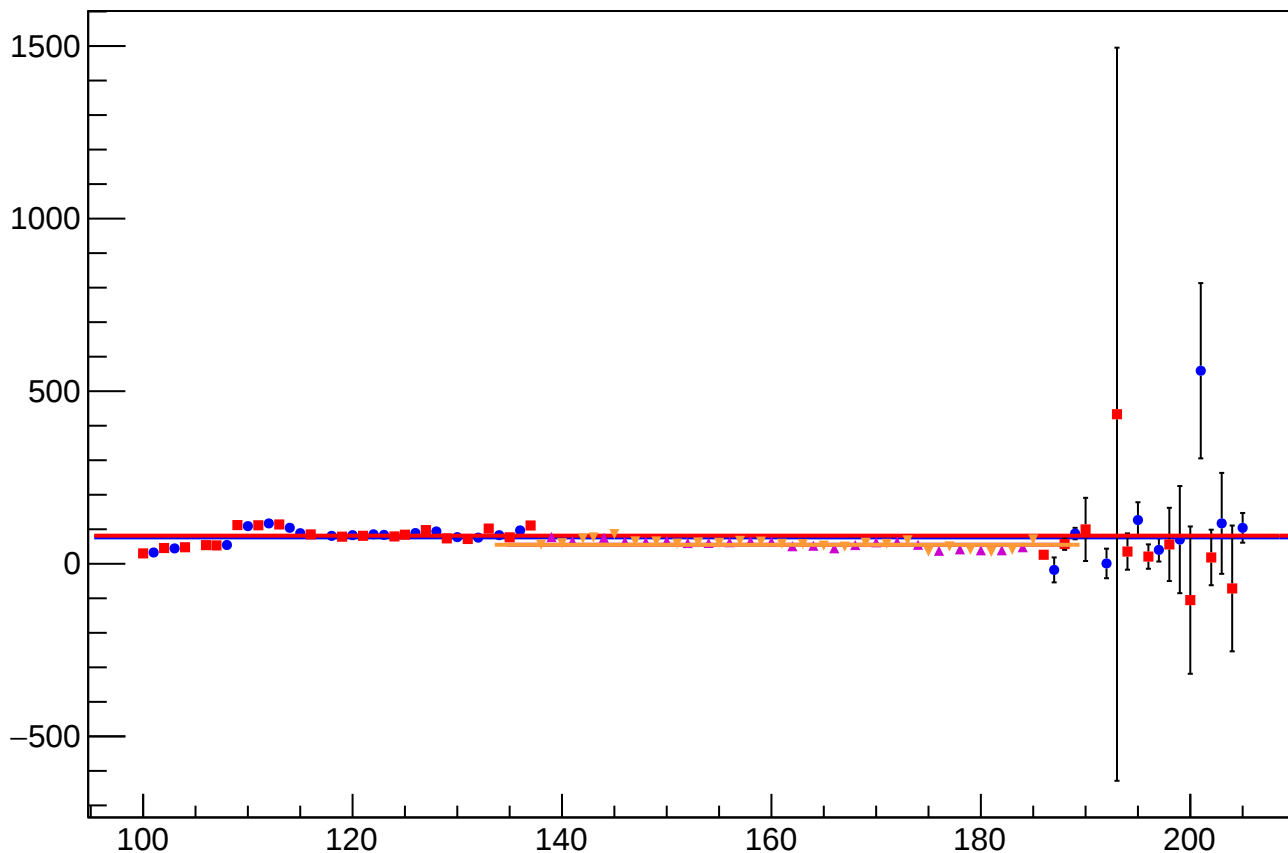
Right: 3.071 ± 0.227 χ^2/NDF : 605.3/54

In: -0.243 ± 0.136 χ^2/NDF : 1469.9/48

Out: 0.075 ± 0.133 χ^2/NDF : 1755.8/53

All: -0.081 ± 0.095 χ^2/NDF : 3228.5/102

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.534 $\pm$ 0.576 χ^2 /NDF: 2269.3/25

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.488 $\pm$ 0.591 χ^2 /NDF: 1632.6/28

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

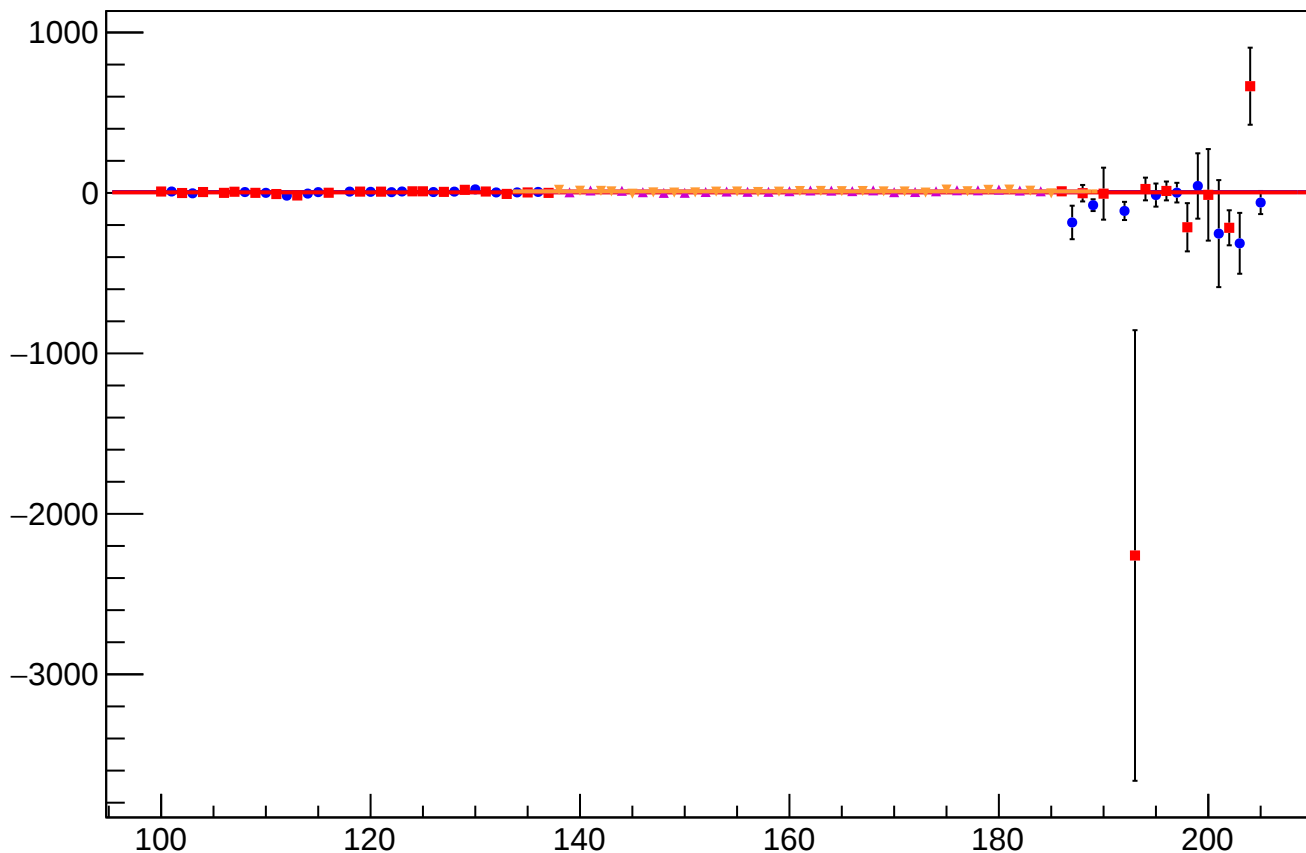
Right: 78.950 $\pm$ 0.412 χ^2 /NDF: 3938.0/54

In: 57.244 $\pm$ 0.183 χ^2 /NDF: 7218.9/48

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8019.0/53

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15239.8/102

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.409 $\pm$ 0.361 χ^2 /NDF: 402.6/25

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.583 $\pm$ 0.375 χ^2 /NDF: 438.2/28

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

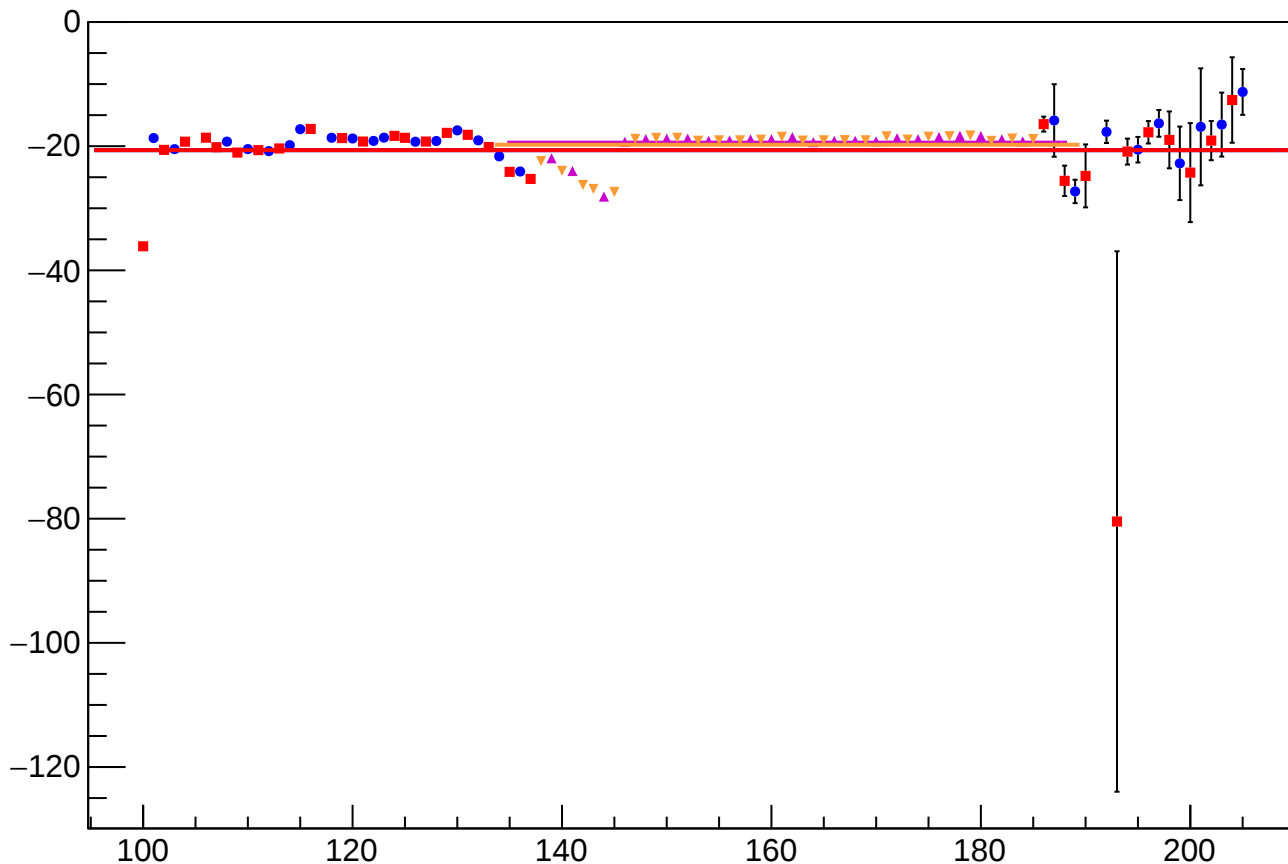
Right: 4.533 $\pm$ 0.260 χ^2 /NDF: 853.1/54

In: 8.993 $\pm$ 0.155 χ^2 /NDF:1682.2/48

Out: 8.713 $\pm$ 0.153 χ^2 /NDF:2112.4/53

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3796.3/102

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12451.4/25

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.639 $\pm$ 0.019 χ^2 /NDF: 13809.1/28

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

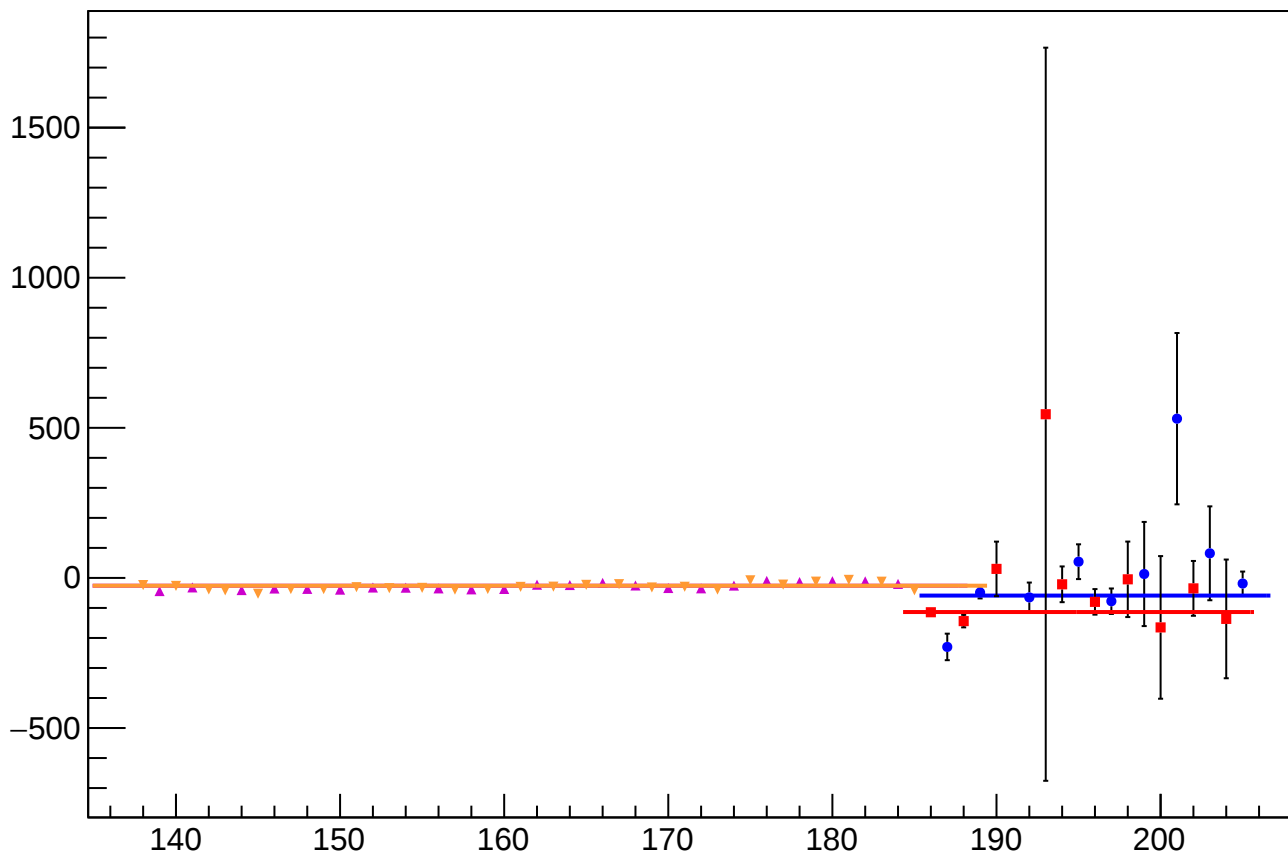
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26260.5/54

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68958.1/48

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107149.2/53

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176836.2/102

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -58.819 ± 14.088 $\chi^2/\text{NDF}: 25.5/8$

Left Out: -25.899 ± 0.192 $\chi^2/\text{NDF}: 4127.5/24$

Right Out: -113.624 ± 8.257 $\chi^2/\text{NDF}: 9.5/9$

Left In: -26.046 ± 0.195 $\chi^2/\text{NDF}: 3246.7/22$

Left: -25.971 ± 0.137 $\chi^2/\text{NDF}: 7374.6/47$

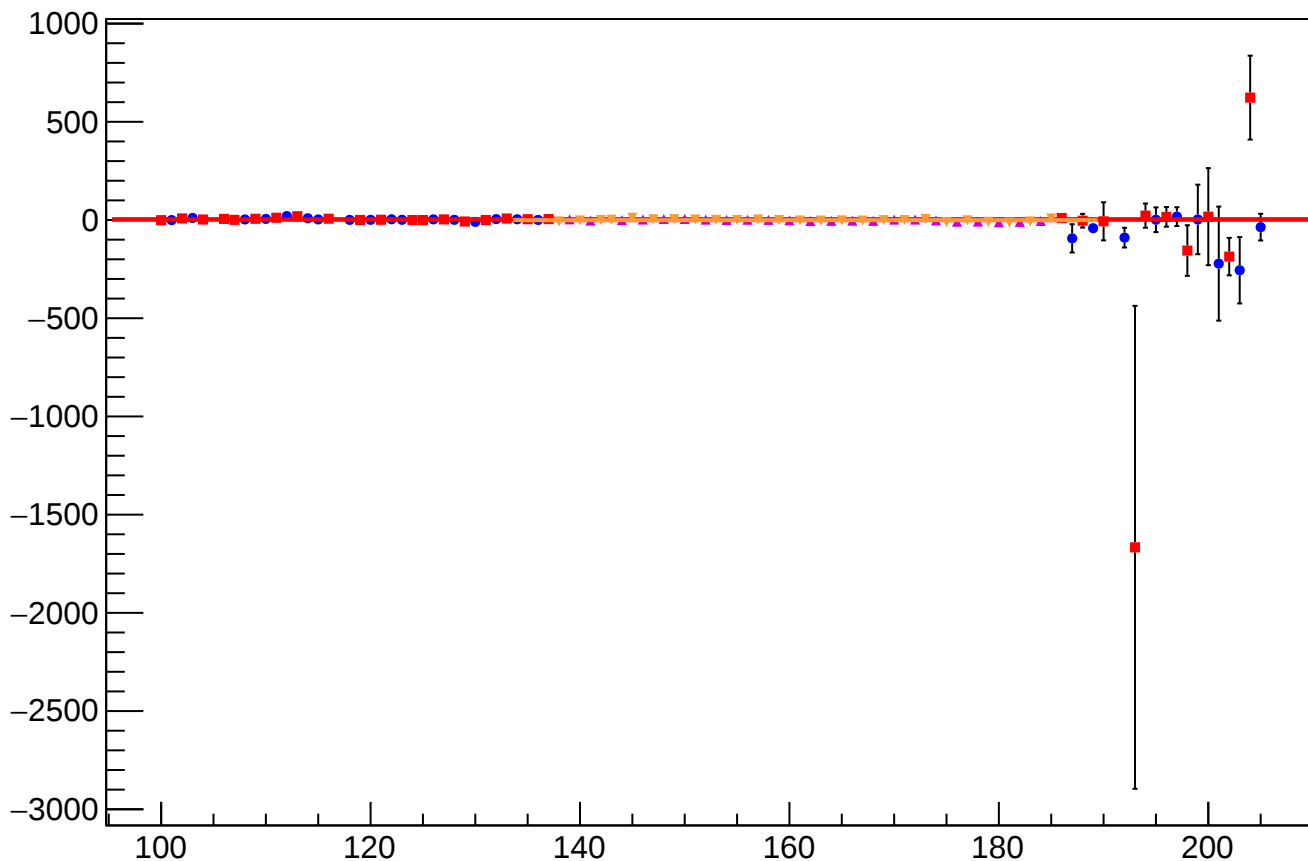
Right: -99.613 ± 7.123 $\chi^2/\text{NDF}: 46.3/18$

In: -26.052 ± 0.195 $\chi^2/\text{NDF}: 3277.7/31$

Out: -25.946 ± 0.192 $\chi^2/\text{NDF}: 4249.9/34$

All: -25.998 ± 0.137 $\chi^2/\text{NDF}: 7527.7/66$

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.440 ± 0.315 $\chi^2/\text{NDF}: 304.6/25$

Left Out: -0.596 ± 0.146 $\chi^2/\text{NDF}: 1310.7/24$

Right Out: 3.595 ± 0.318 $\chi^2/\text{NDF}: 296.3/28$

Left In: -0.795 ± 0.151 $\chi^2/\text{NDF}: 1106.3/22$

Left: -0.693 ± 0.105 $\chi^2/\text{NDF}: 2417.9/47$

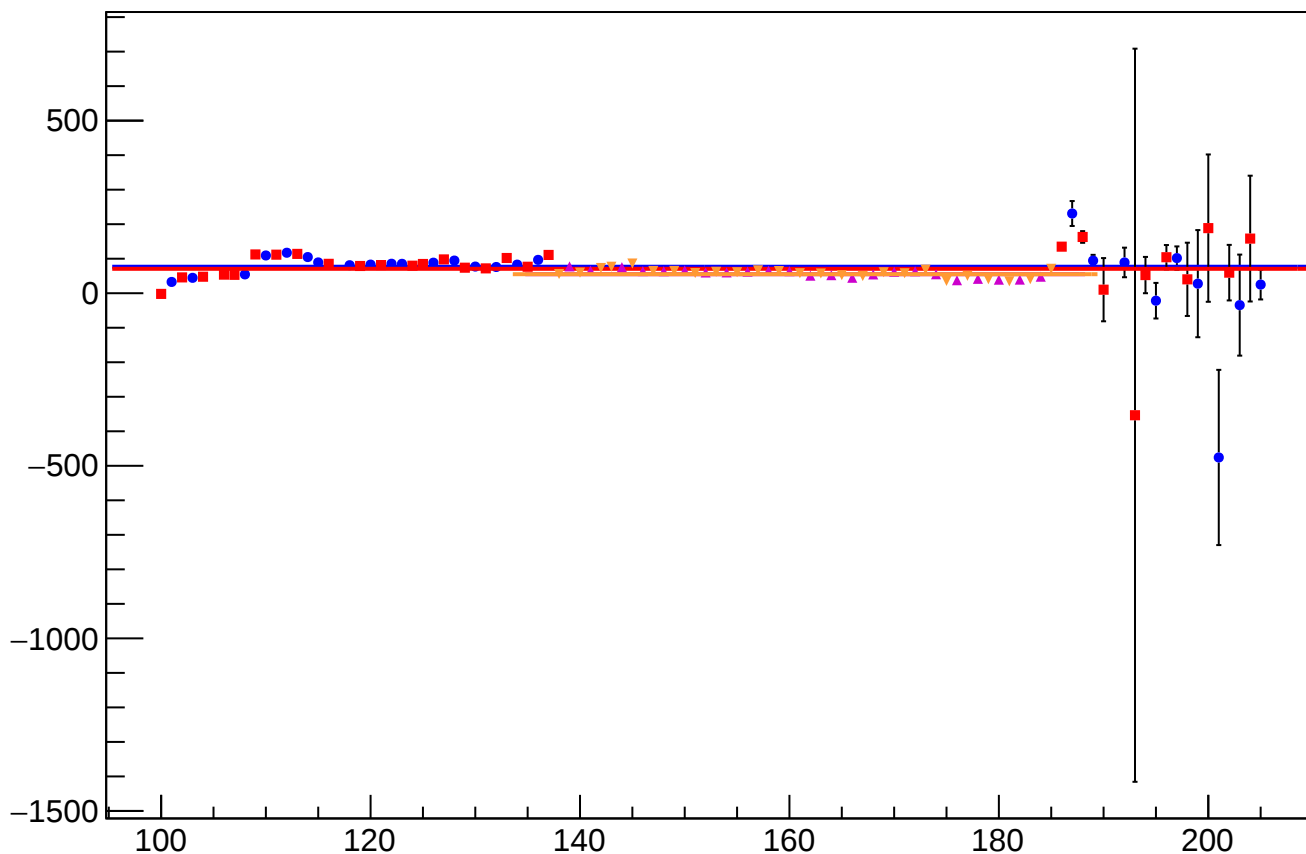
Right: 3.012 ± 0.224 $\chi^2/\text{NDF}: 607.6/54$

In: -0.193 ± 0.136 $\chi^2/\text{NDF}: 1496.8/48$

Out: 0.136 ± 0.133 $\chi^2/\text{NDF}: 1750.4/53$

All: -0.025 ± 0.095 $\chi^2/\text{NDF}: 3250.2/102$

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.718 $\pm$ 0.577 χ^2 /NDF: 2295.3/25

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.756 $\pm$ 0.549 χ^2 /NDF: 4491.4/28

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

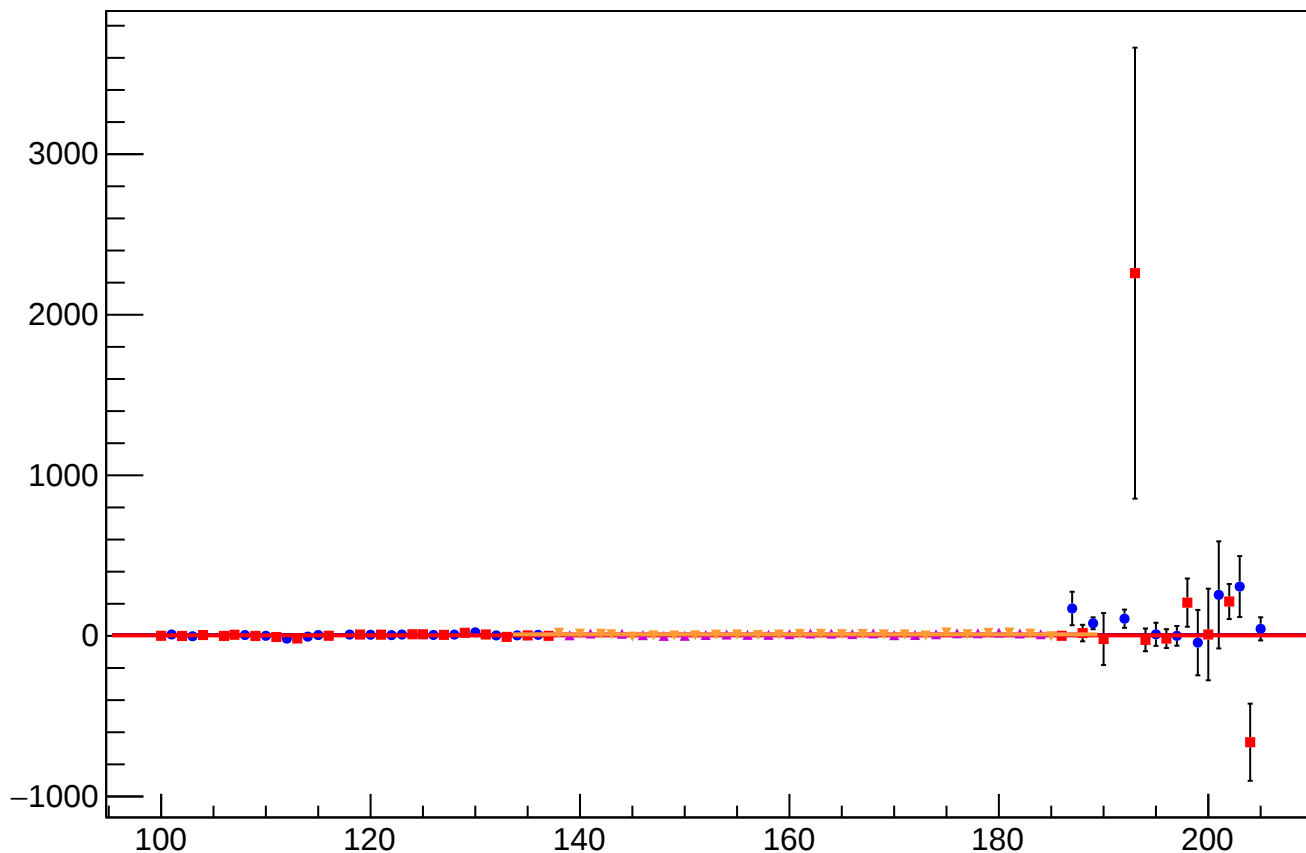
Right: 73.589 $\pm$ 0.397 χ^2 /NDF: 6842.9/54

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7224.0/48

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9776.3/53

All: 57.045 $\pm$ 0.129 χ^2 /NDF: 17003.6/102

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.443+/-0.361 χ^2/NDF : 397.3/25

Left Out: 9.675+/-0.168 χ^2/NDF :1441.3/24

Right Out: 3.280+/-0.365 χ^2/NDF : 441.3/28

Left In: 9.738+/-0.172 χ^2/NDF :1191.1/22

Left: 9.706+/-0.120 χ^2/NDF : 2632.6/47

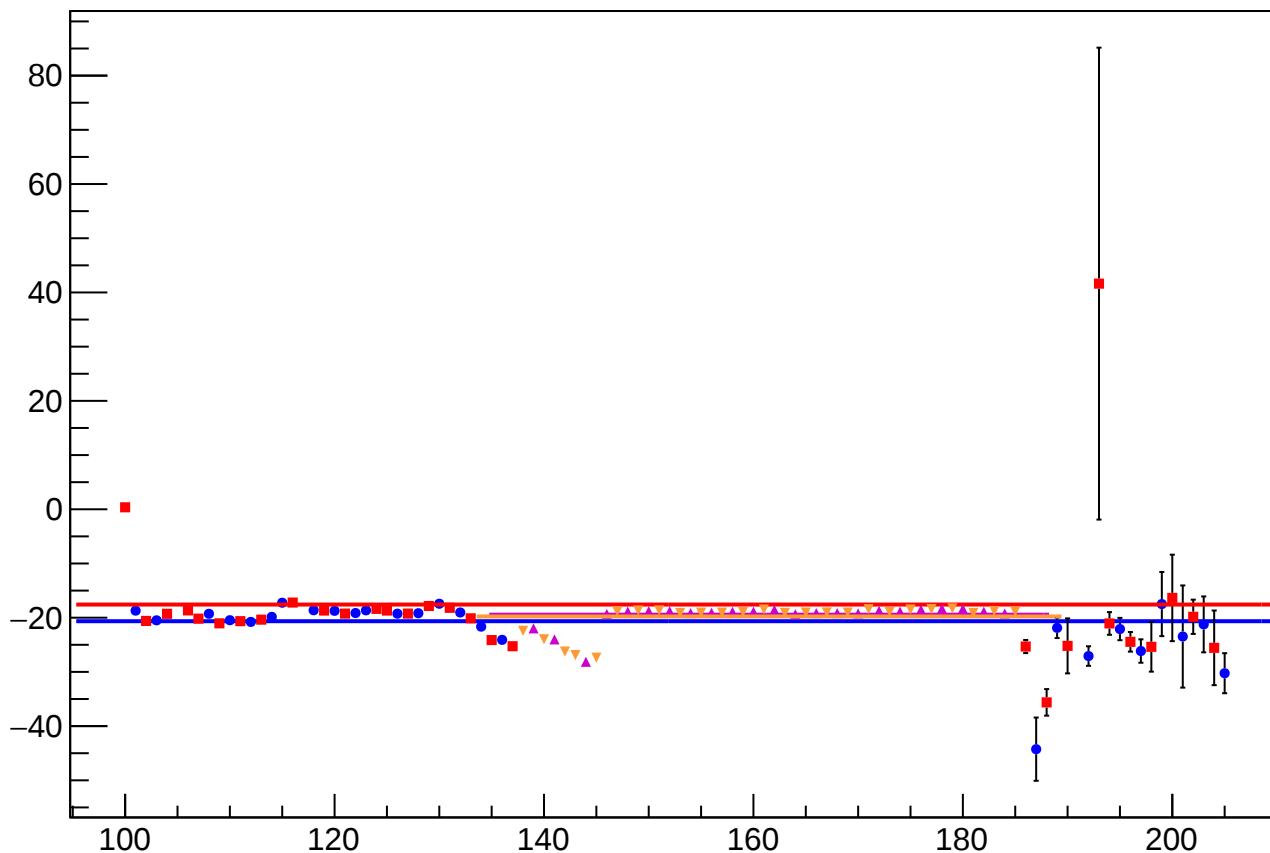
Right: 4.375+/-0.257 χ^2/NDF : 856.3/54

In: 8.945+/-0.155 χ^2/NDF :1703.8/48

Out: 8.562+/-0.153 χ^2/NDF :2135.5/53

All: 8.750+/-0.109 χ^2/NDF : 3842.4/102

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 $\chi^2/\text{NDF}: 12506.4/25$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178439.6/28$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

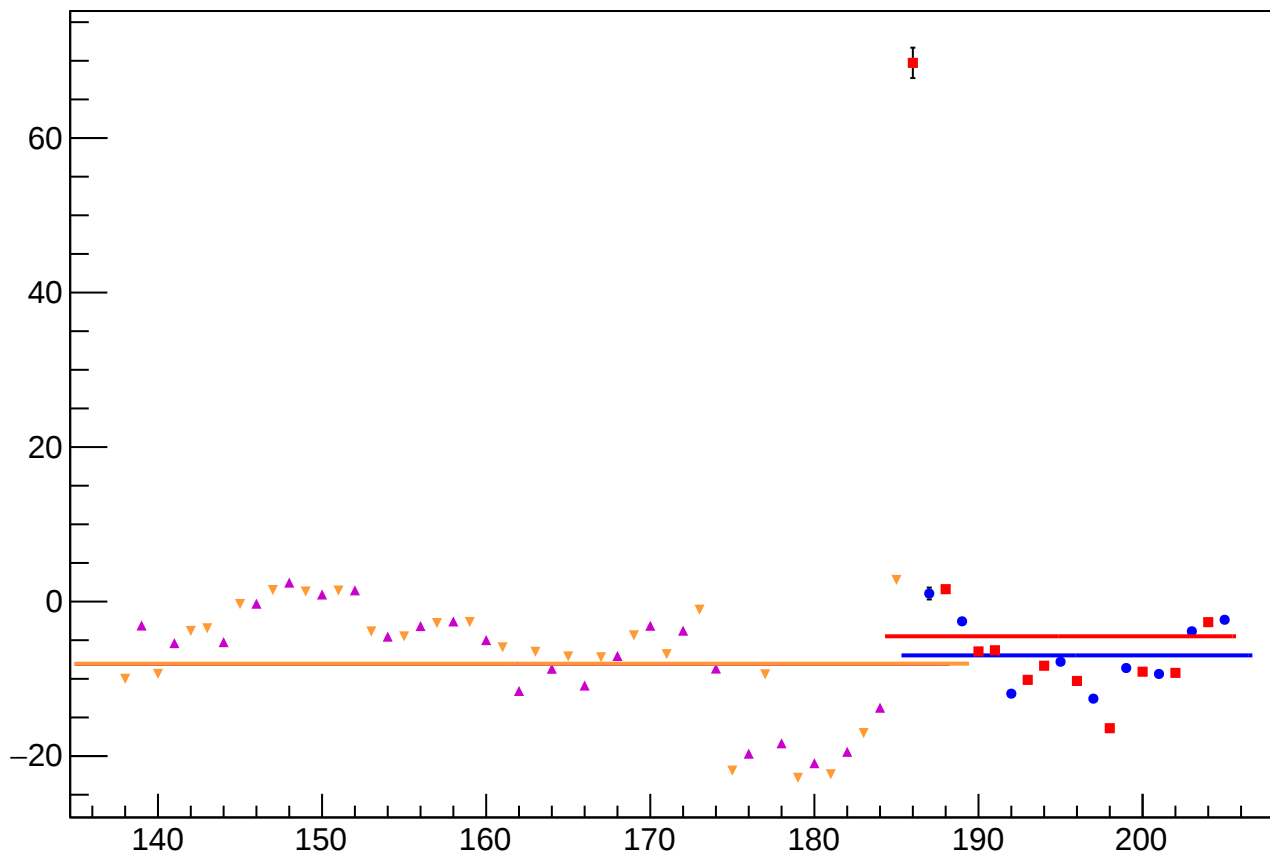
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204421.3/54$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68930.4/48$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282428.6/53$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351722.5/102$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

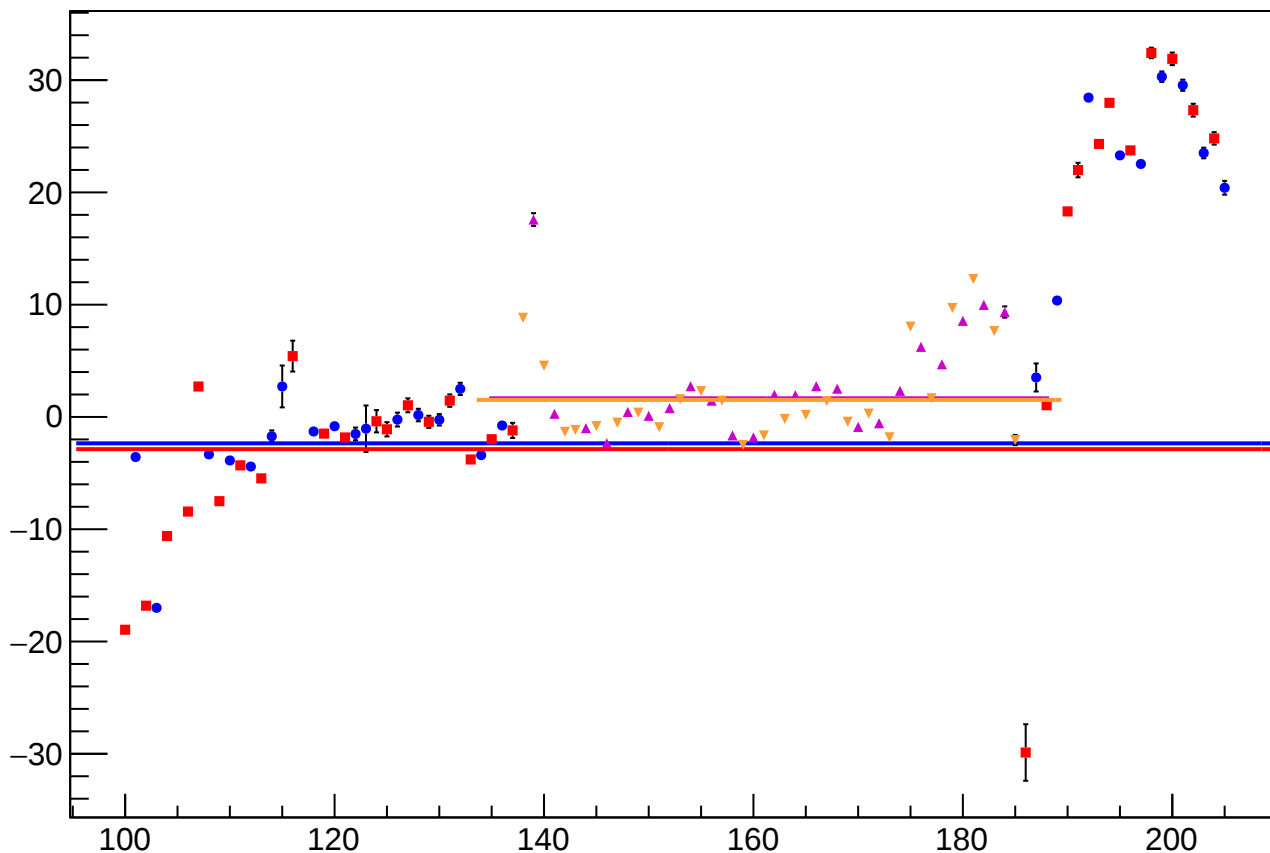


Right In: -6.965 ± 0.137 χ^2/NDF : 903.6/8
 Left Out: -8.034 ± 0.070 χ^2/NDF : 12568.0/24
 Right Out: -4.495 ± 0.113 χ^2/NDF : 3923.9/10
 Left In: -8.078 ± 0.072 χ^2/NDF : 10541.6/22

Left: -8.055 ± 0.050 χ^2/NDF : 23109.8/47
 Right: -5.498 ± 0.087 χ^2/NDF : 5021.2/19
 In: -7.837 ± 0.064 χ^2/NDF : 11497.0/31
 Out: -7.047 ± 0.060 χ^2/NDF : 17198.3/35

All: -7.417 ± 0.044 χ^2/NDF : 28777.1/67

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.349 ± 0.052 $\chi^2/\text{NDF}: 40266.4/25$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -2.867 ± 0.054 $\chi^2/\text{NDF}: 51240.7/29$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

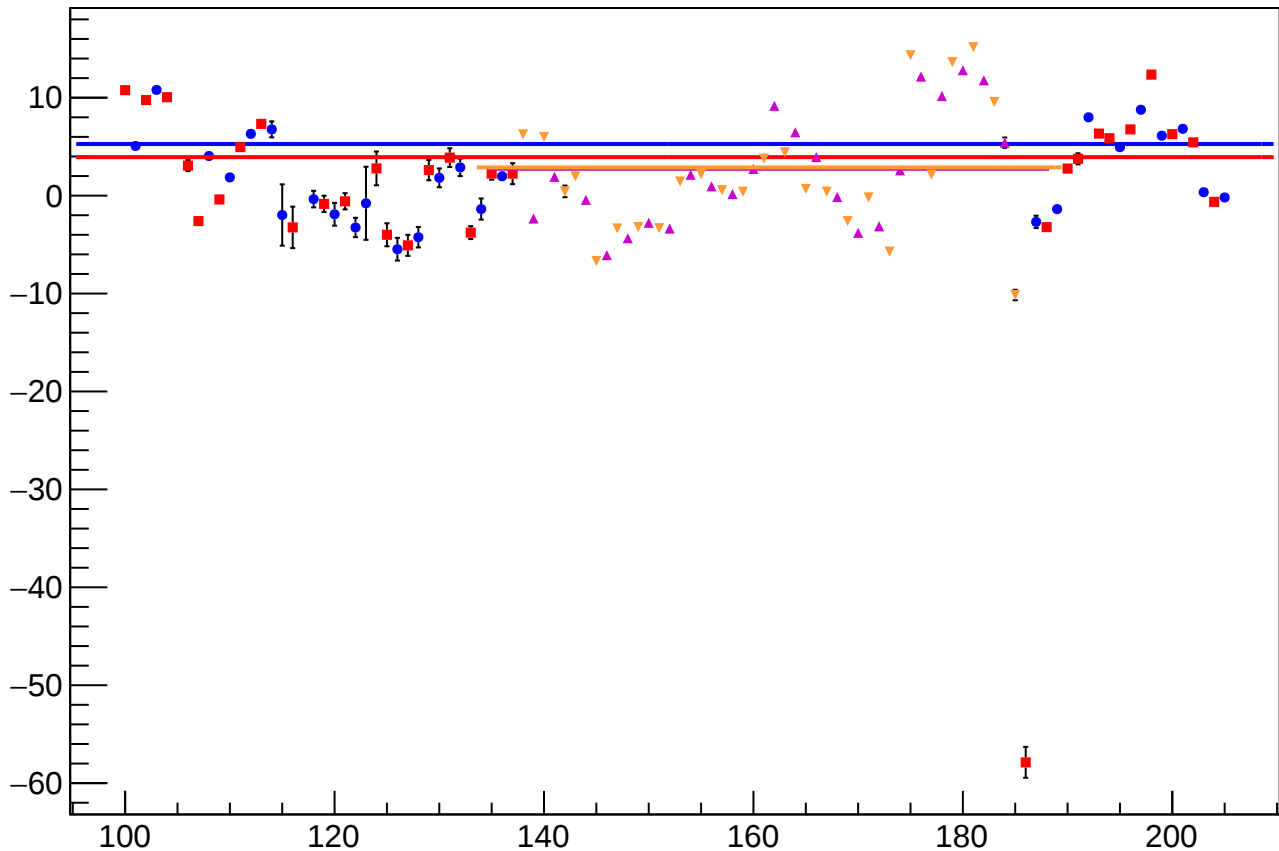
Right: -2.597 ± 0.037 $\chi^2/\text{NDF}: 91554.9/55$

In: -0.518 ± 0.038 $\chi^2/\text{NDF}: 47033.0/48$

Out: -0.682 ± 0.038 $\chi^2/\text{NDF}: 59353.3/54$

All: -0.600 ± 0.027 $\chi^2/\text{NDF}: 106395.5/103$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.273 ± 0.073 χ^2/NDF : 2572.0/25

Left Out: 2.884 ± 0.070 χ^2/NDF : 8893.2/24

Right Out: 3.932 ± 0.068 χ^2/NDF : 7777.0/29

Left In: 2.745 ± 0.071 χ^2/NDF : 7183.1/22

Left: 2.816 ± 0.050 χ^2/NDF : 16078.2/47

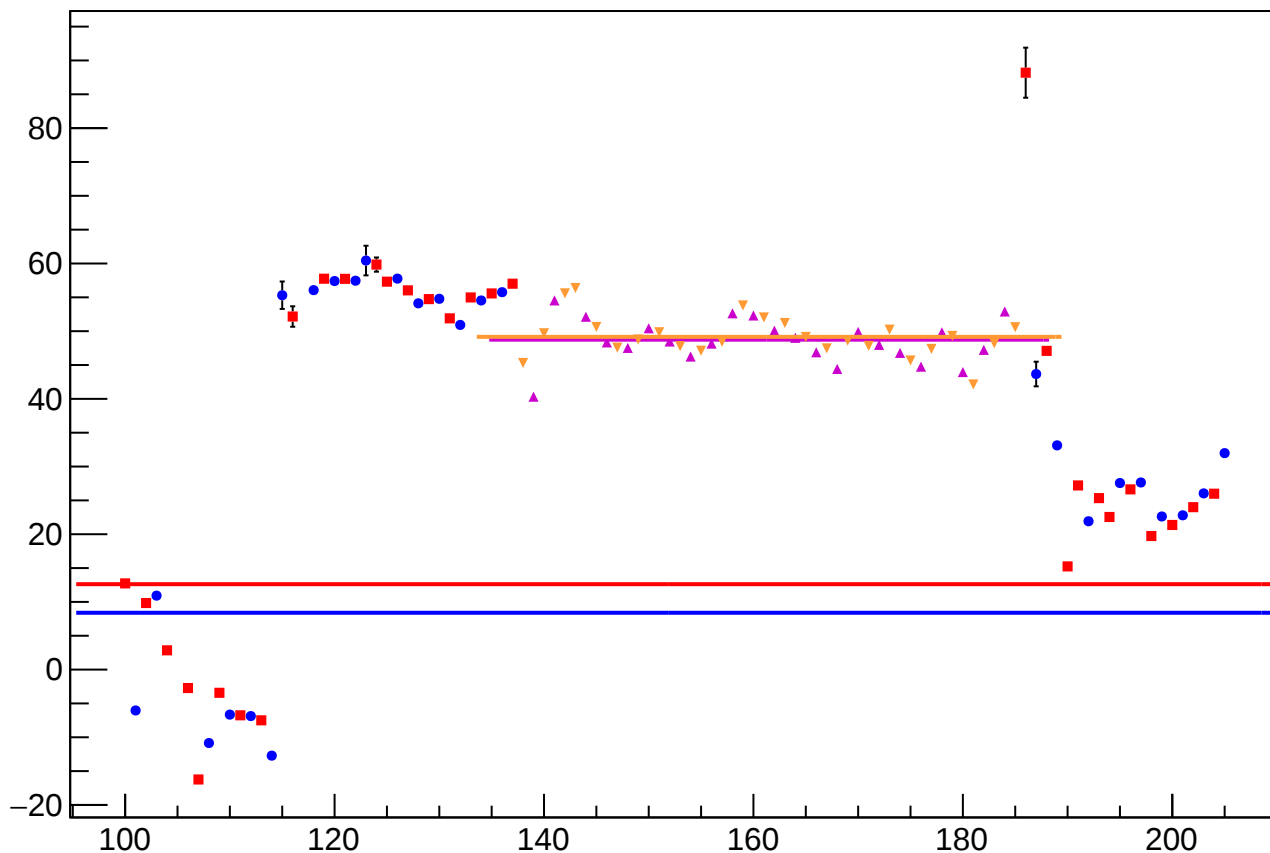
Right: 4.555 ± 0.050 χ^2/NDF : 10531.2/55

In: 3.987 ± 0.051 χ^2/NDF : 10369.8/48

Out: 3.427 ± 0.049 χ^2/NDF : 16785.5/54

All: 3.695 ± 0.035 χ^2/NDF : 27218.2/103

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.396+/-0.061 χ^2/NDF : 131471.3/25

Left Out: 49.163+/-0.062 χ^2/NDF : 2259.9/24

Right Out: 12.618+/-0.064 χ^2/NDF : 134499.9/29

Left In: 48.744+/-0.064 χ^2/NDF : 2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

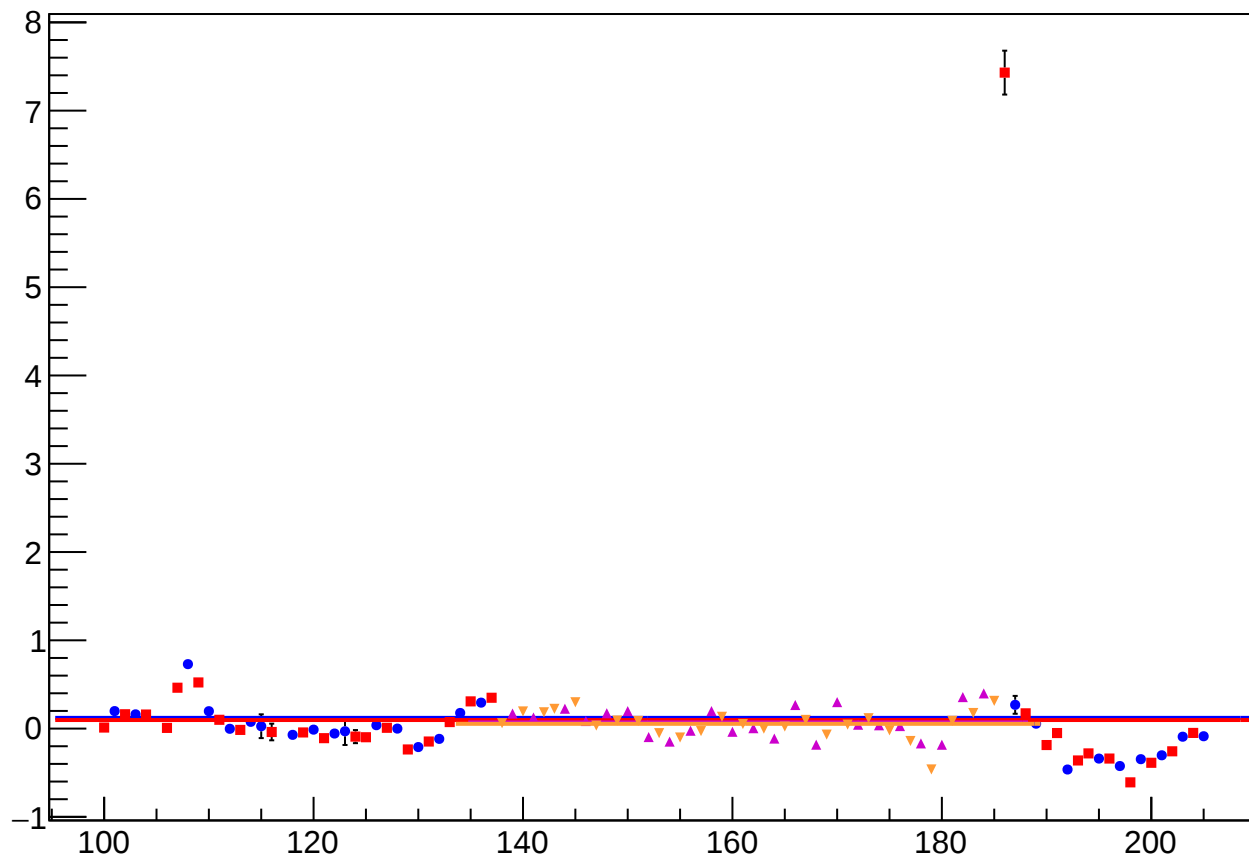
Right: 10.398+/-0.044 χ^2/NDF : 268224.9/55

In: 27.755+/-0.044 χ^2/NDF : 341840.2/48

Out: 31.686+/-0.045 χ^2/NDF : 304315.3/54

All: 29.702+/-0.031 χ^2/NDF : 650078.1/103

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.121+/-0.003 χ^2/NDF : 10992.1/25

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.097+/-0.002 χ^2/NDF : 10609.8/29

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

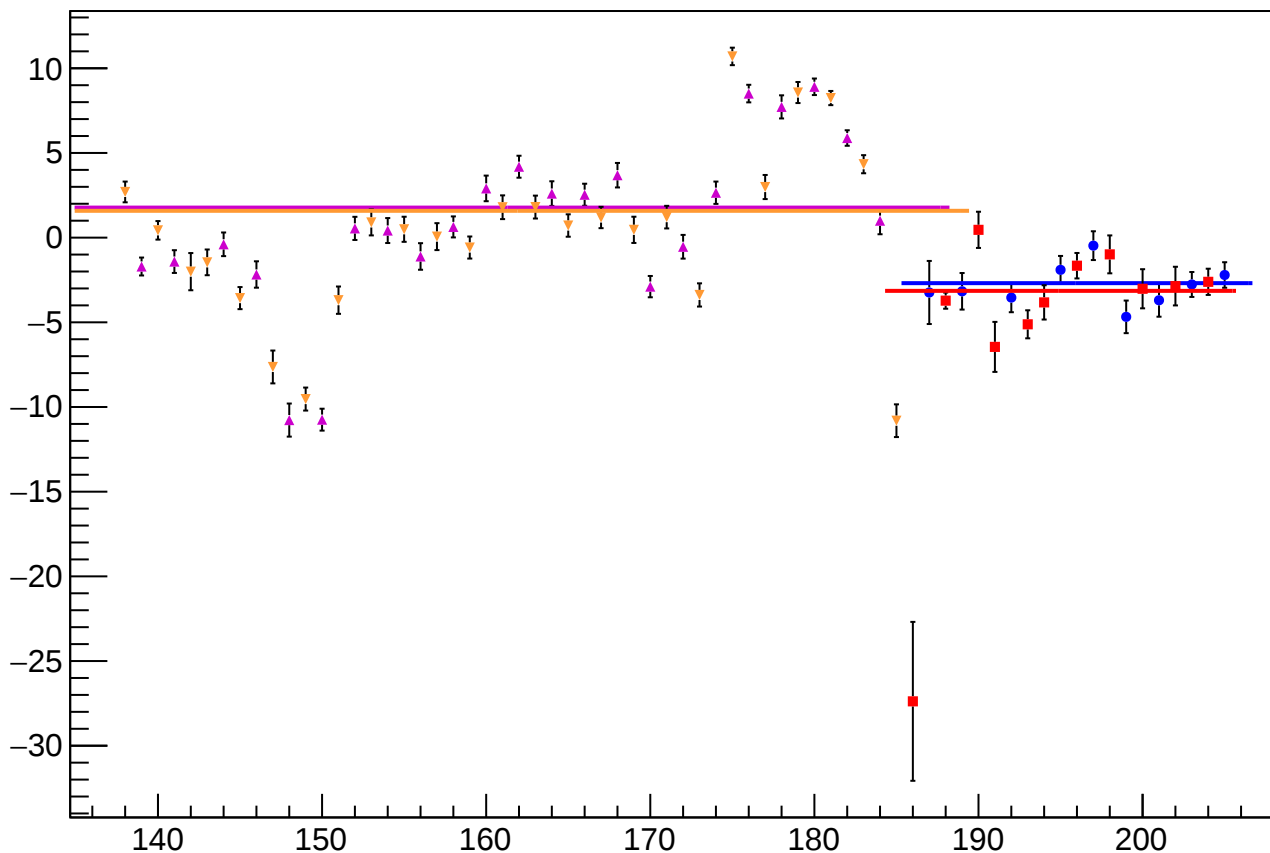
Right: 0.109+/-0.002 χ^2/NDF : 21651.3/55

In: 0.099+/-0.002 χ^2/NDF : 14405.8/48

Out: 0.079+/-0.002 χ^2/NDF : 13123.5/54

All: 0.089+/-0.001 χ^2/NDF : 27589.1/103

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.688 ± 0.300 χ^2/NDF : 14.7/8

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -3.143 ± 0.268 χ^2/NDF : 58.8/10

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

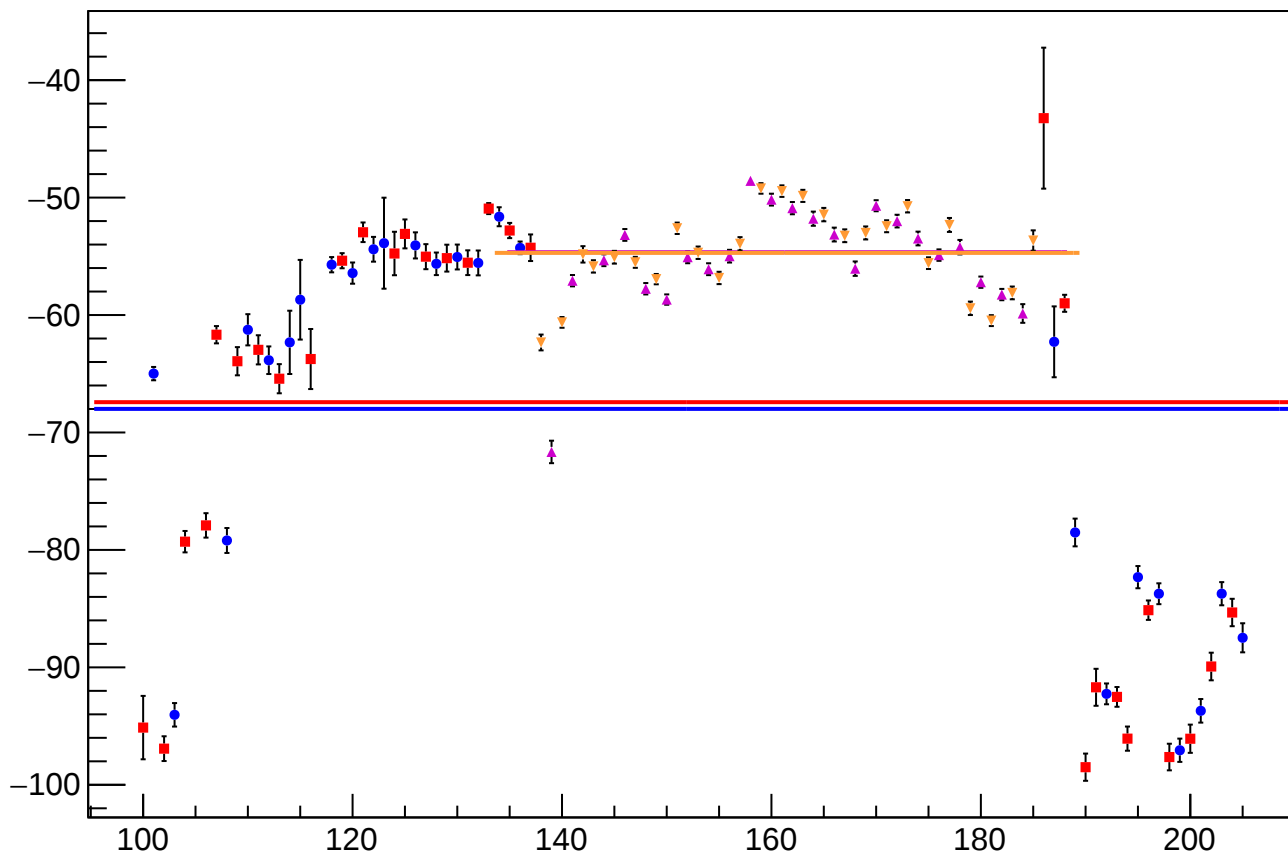
Right: -2.941 ± 0.200 χ^2/NDF : 74.9/19

In: 1.021 ± 0.123 χ^2/NDF : 1495.7/31

Out: 0.651 ± 0.119 χ^2/NDF : 1768.1/35

All: 0.830 ± 0.086 χ^2/NDF : 3268.5/67

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -67.992 ± 0.189 χ^2/NDF : 6628.3/25

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -67.420 ± 0.177 χ^2/NDF : 9452.5/29

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

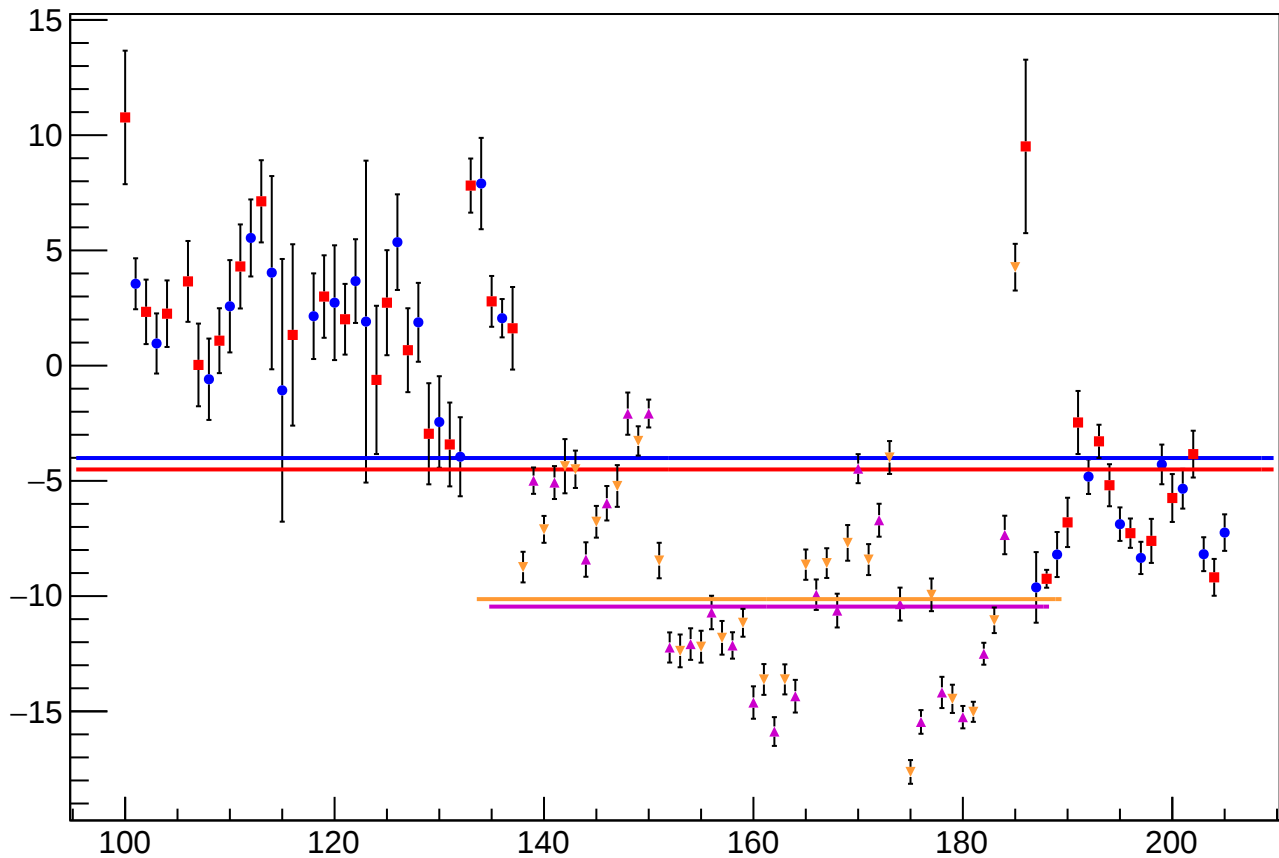
Right: -67.686 ± 0.129 χ^2/NDF : 16085.6/55

In: -58.007 ± 0.095 χ^2/NDF : 11421.5/48

Out: -58.059 ± 0.091 χ^2/NDF : 14392.5/54

All: -58.034 ± 0.066 χ^2/NDF : 25814.2/103

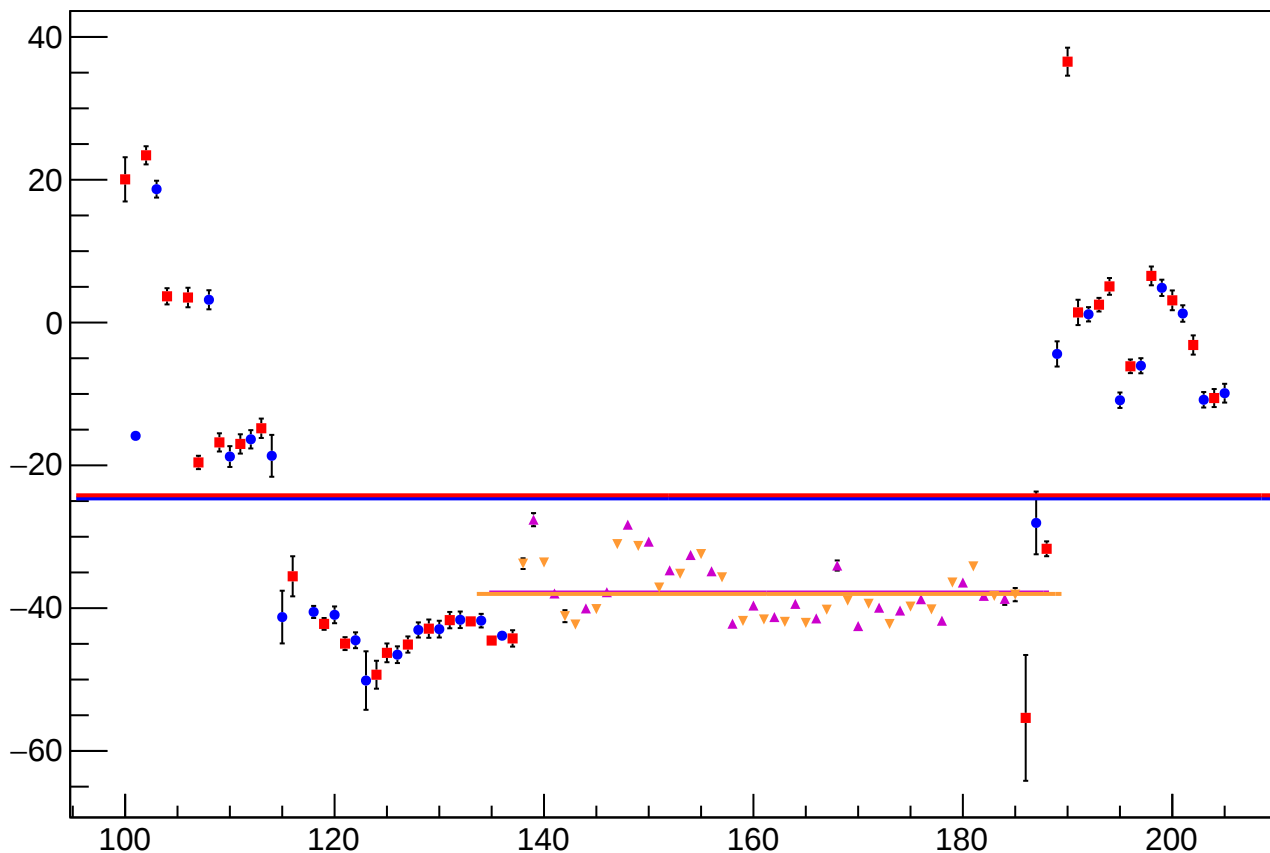
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.009 ± 0.227 $\chi^2/\text{NDF}: 409.8/25$
 Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$
 Right Out: -4.505 ± 0.200 $\chi^2/\text{NDF}: 646.7/29$
 Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$
 Right: -4.288 ± 0.150 $\chi^2/\text{NDF}: 1059.2/55$
 In: -8.780 ± 0.116 $\chi^2/\text{NDF}: 2008.6/48$
 Out: -8.413 ± 0.111 $\chi^2/\text{NDF}: 2250.1/54$
 All: -8.588 ± 0.080 $\chi^2/\text{NDF}: 4264.0/103$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.629 ± 0.217 $\chi^2/\text{NDF}: 8351.8/25$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -24.196 ± 0.206 $\chi^2/\text{NDF}: 11488.3/29$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

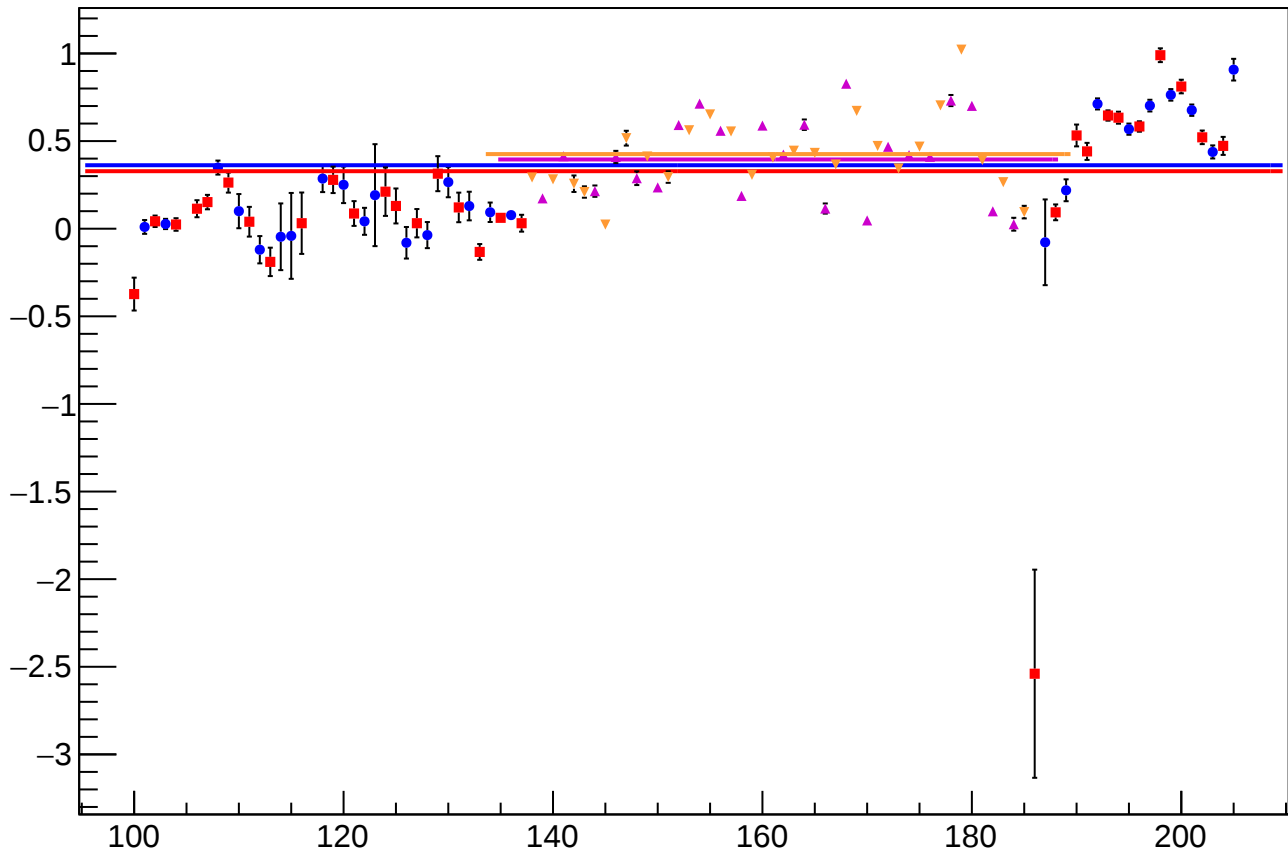
Right: -24.402 ± 0.149 $\chi^2/\text{NDF}: 19842.2/55$

In: -34.623 ± 0.106 $\chi^2/\text{NDF}: 12199.0/48$

Out: -34.573 ± 0.103 $\chi^2/\text{NDF}: 15797.2/54$

All: -34.597 ± 0.074 $\chi^2/\text{NDF}: 27996.4/103$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.362 ± 0.009 $\chi^2/\text{NDF}: 1134.5/25$

Left Out: 0.426 ± 0.005 $\chi^2/\text{NDF}: 1303.7/24$

Right Out: 0.328 ± 0.009 $\chi^2/\text{NDF}: 1384.4/29$

Left In: 0.395 ± 0.005 $\chi^2/\text{NDF}: 1798.2/22$

Left: 0.411 ± 0.004 $\chi^2/\text{NDF}: 3118.1/47$

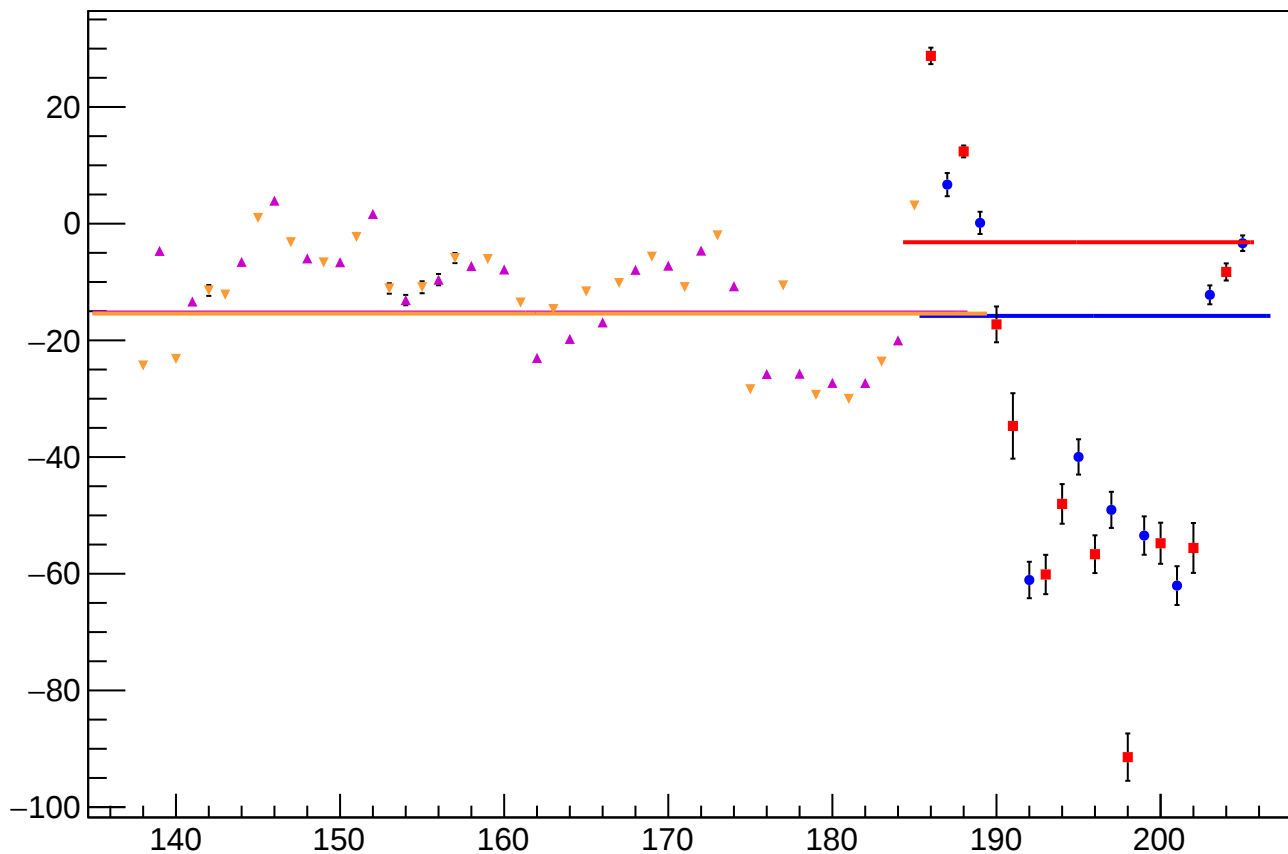
Right: 0.344 ± 0.006 $\chi^2/\text{NDF}: 2526.3/55$

In: 0.386 ± 0.005 $\chi^2/\text{NDF}: 2942.3/48$

Out: 0.399 ± 0.005 $\chi^2/\text{NDF}: 2780.2/54$

All: 0.393 ± 0.003 $\chi^2/\text{NDF}: 5726.0/103$

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.807 ± 0.713 $\chi^2/\text{NDF}: 1003.5/8$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: -3.183 ± 0.627 $\chi^2/\text{NDF}: 2385.2/10$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

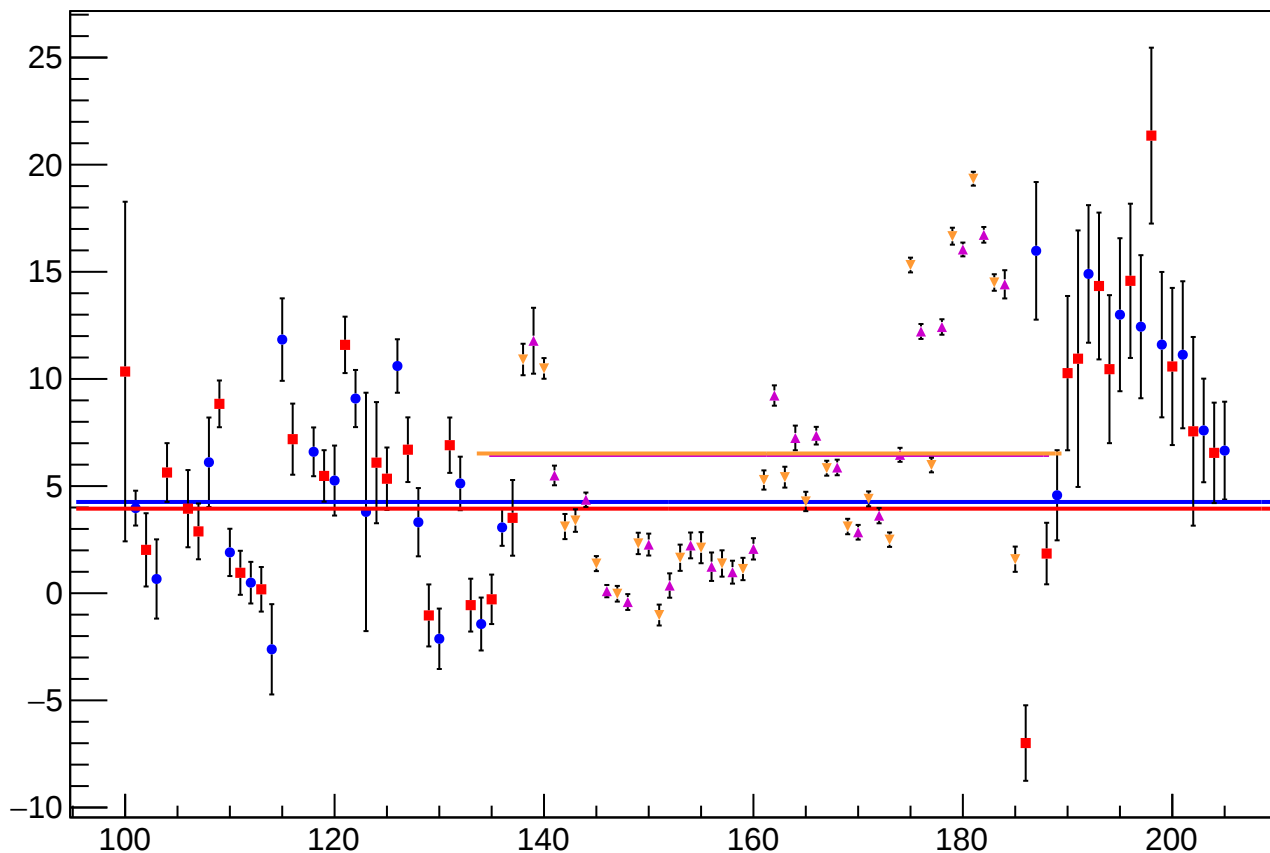
Right: -8.684 ± 0.471 $\chi^2/\text{NDF}: 3565.5/19$

In: -15.242 ± 0.106 $\chi^2/\text{NDF}: 9661.5/31$

Out: -15.077 ± 0.104 $\chi^2/\text{NDF}: 13264.6/35$

All: -15.158 ± 0.074 $\chi^2/\text{NDF}: 22927.4/67$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.259 ± 0.295 $\chi^2/\text{NDF}: 186.5/25$

Left Out: 6.521 ± 0.085 $\chi^2/\text{NDF}: 4985.2/24$

Right Out: 3.946 ± 0.295 $\chi^2/\text{NDF}: 223.5/29$

Left In: 6.452 ± 0.086 $\chi^2/\text{NDF}: 3948.0/22$

Left: 6.487 ± 0.061 $\chi^2/\text{NDF}: 8933.5/47$

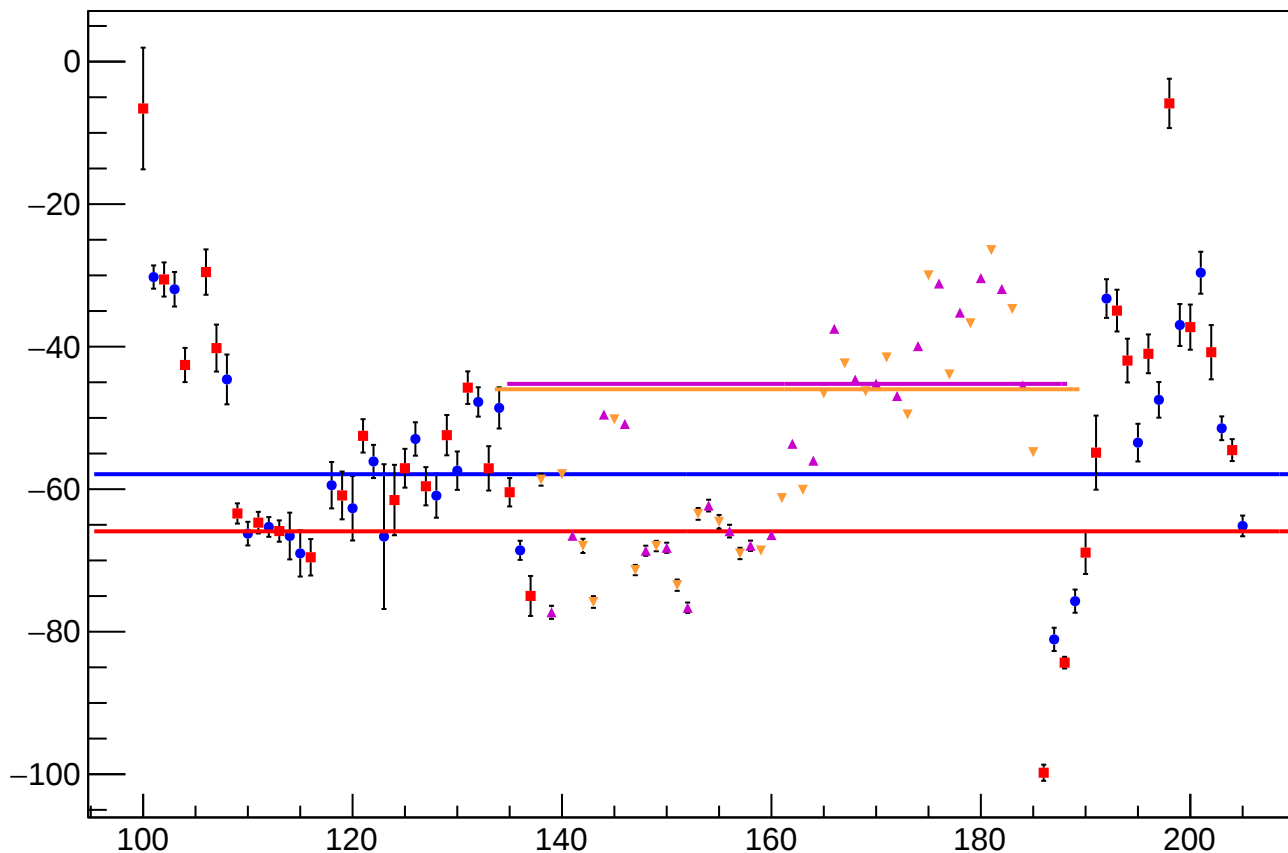
Right: 4.102 ± 0.209 $\chi^2/\text{NDF}: 410.6/55$

In: 6.280 ± 0.083 $\chi^2/\text{NDF}: 4185.4/48$

Out: 6.322 ± 0.082 $\chi^2/\text{NDF}: 5279.0/54$

All: 6.301 ± 0.058 $\chi^2/\text{NDF}: 9464.5/103$

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.898 ± 0.421 χ^2/NDF : 1202.0/25

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -65.913 ± 0.380 χ^2/NDF : 2883.0/29

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

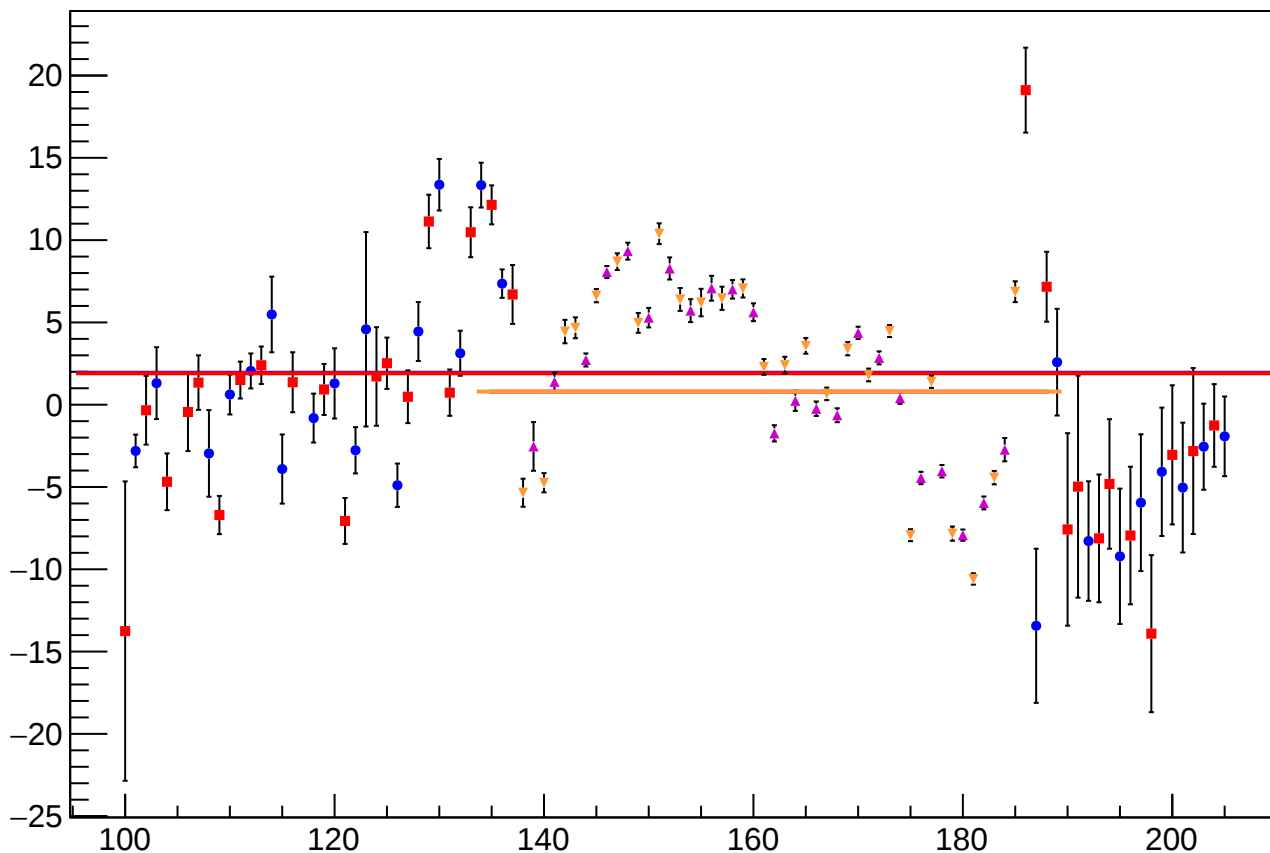
Right: -62.320 ± 0.282 χ^2/NDF : 4284.6/55

In: -45.992 ± 0.104 χ^2/NDF : 17652.0/48

Out: -47.428 ± 0.102 χ^2/NDF : 22795.8/54

All: -46.721 ± 0.073 χ^2/NDF : 40544.8/103

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.941 ± 0.332 χ^2/NDF : 285.6/25

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.910 ± 0.337 χ^2/NDF : 348.8/29

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

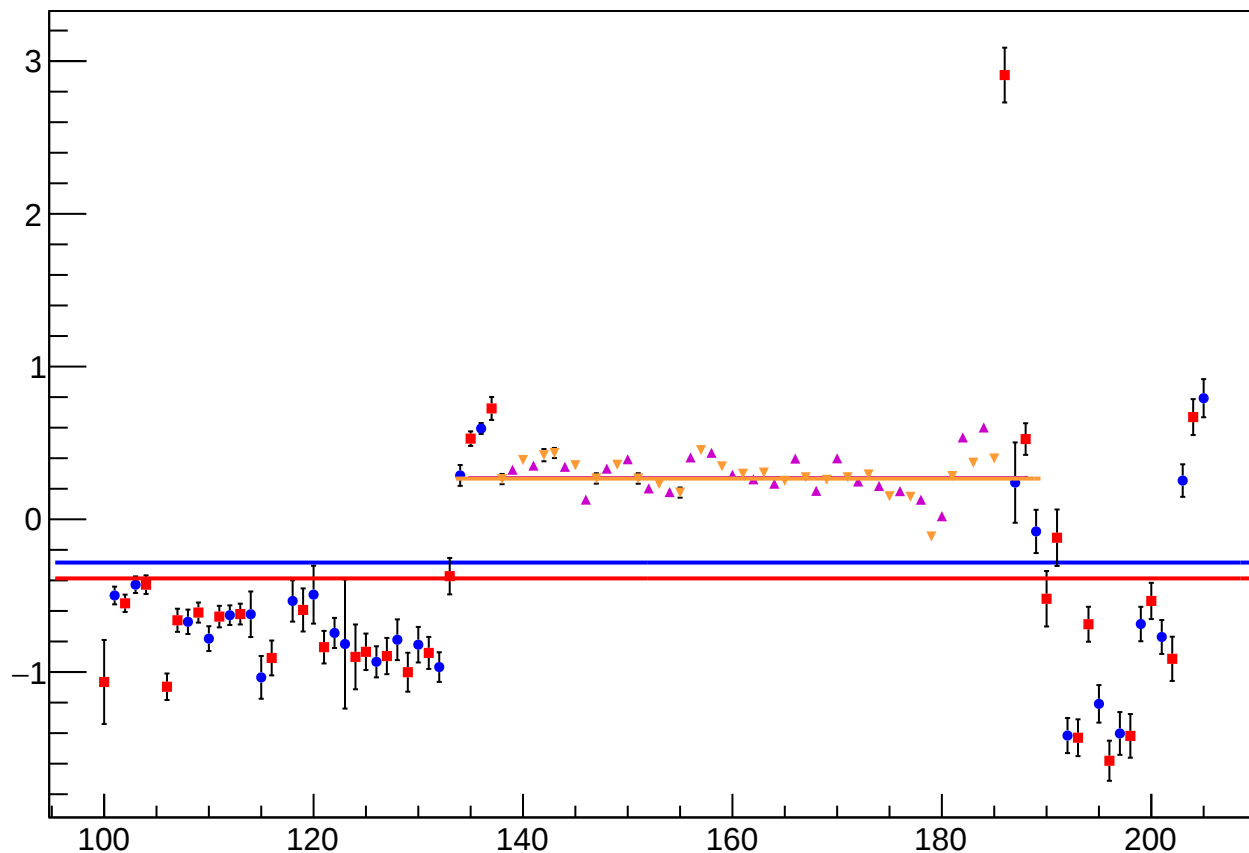
Right: 1.926 ± 0.237 χ^2/NDF : 634.4/55

In: 0.882 ± 0.093 χ^2/NDF : 2989.1/48

Out: 0.880 ± 0.092 χ^2/NDF : 4118.9/54

All: 0.881 ± 0.065 χ^2/NDF : 7108.0/103

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.283 ± 0.017 χ^2/NDF : 1319.5/25

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.387 ± 0.017 χ^2/NDF : 1574.4/29

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

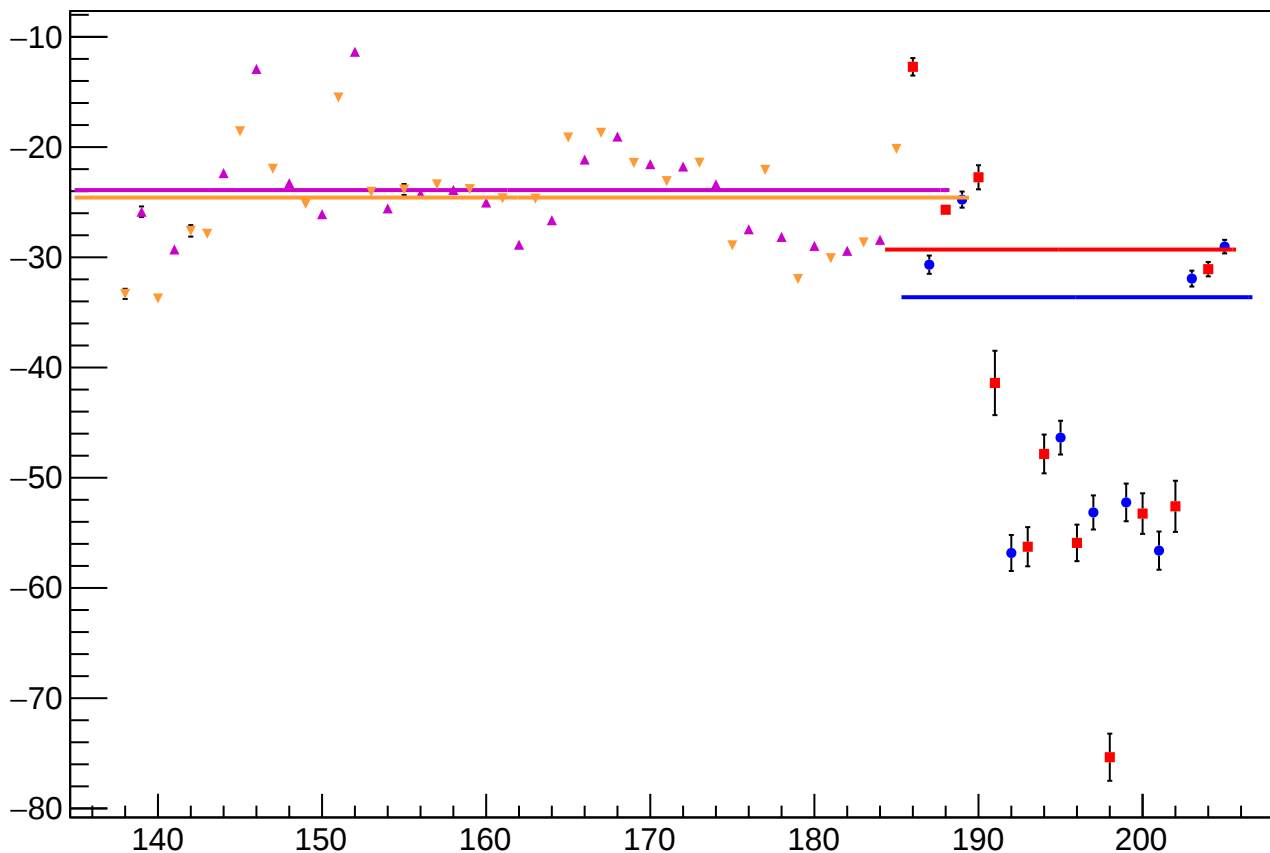
Right: -0.335 ± 0.012 χ^2/NDF : 2912.1/55

In: 0.236 ± 0.004 χ^2/NDF : 3255.8/48

Out: 0.227 ± 0.004 χ^2/NDF : 3636.7/54

All: 0.231 ± 0.003 χ^2/NDF : 6894.8/103

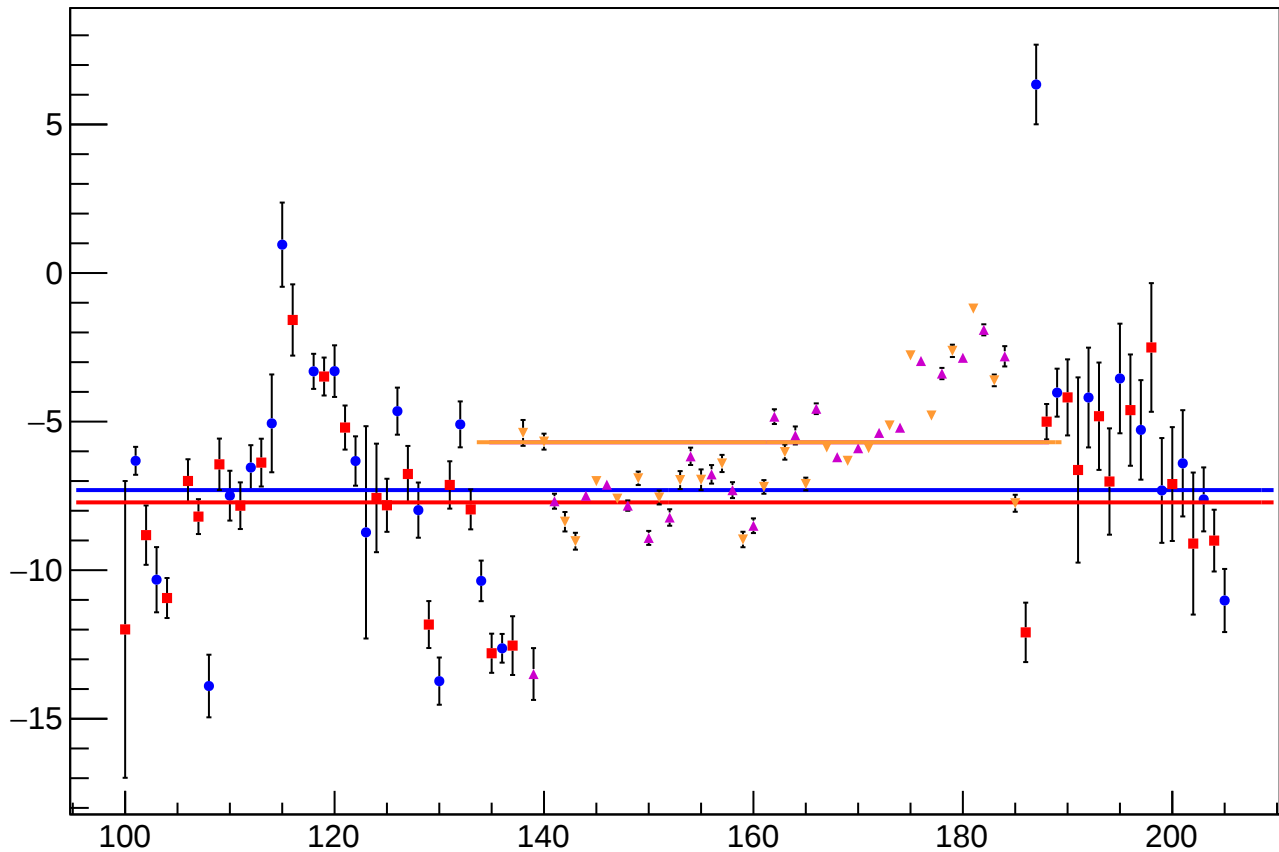
reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.620 ± 0.319 χ^2/NDF : 946.4/8
 Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24
 Right Out: -29.296 ± 0.289 χ^2/NDF : 1900.4/10
 Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47
 Right: -31.243 ± 0.214 χ^2/NDF : 2947.5/19
 In: -24.144 ± 0.050 χ^2/NDF : 11004.1/31
 Out: -24.720 ± 0.050 χ^2/NDF : 10749.3/35
 All: -24.433 ± 0.036 χ^2/NDF : 21818.8/67

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.305 ± 0.172 χ^2/NDF : 525.3/25

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.718 ± 0.167 χ^2/NDF : 286.0/29

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

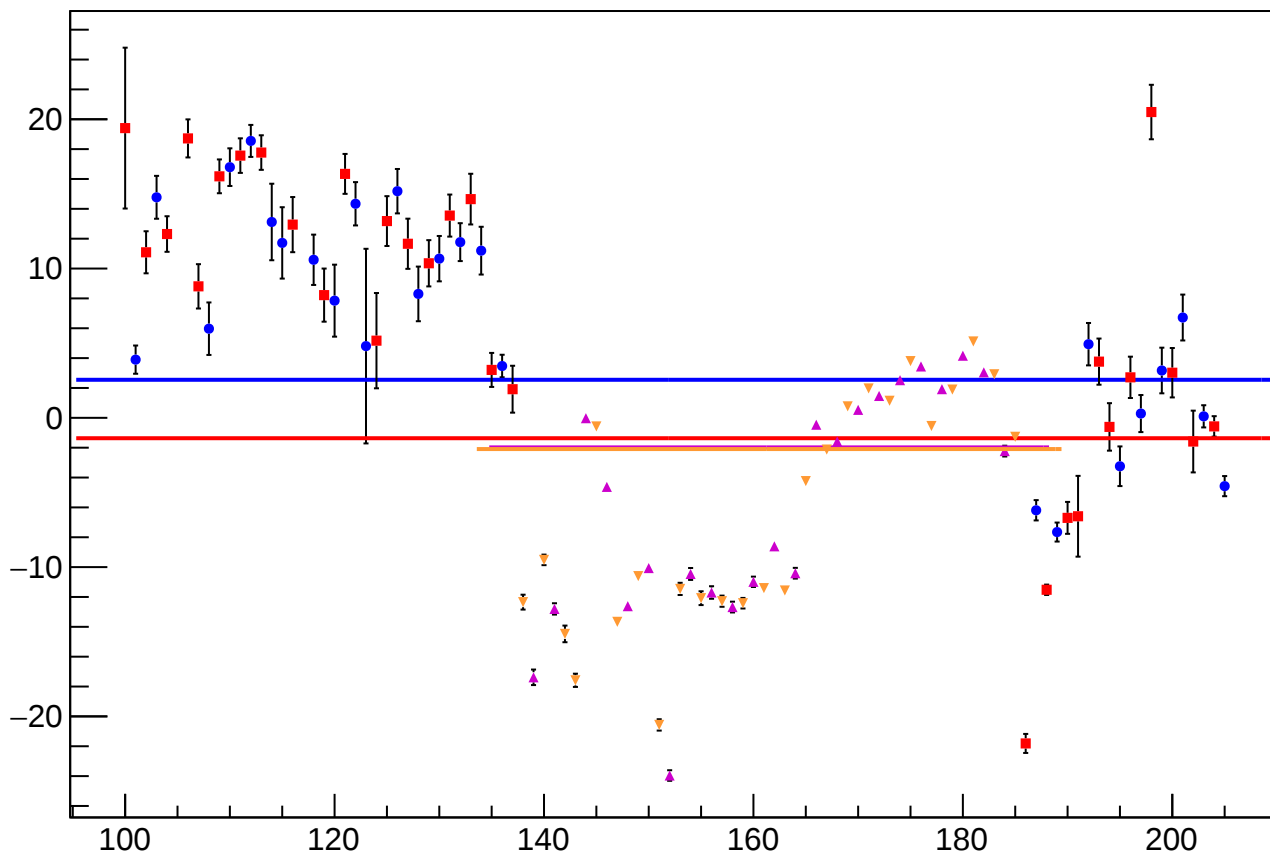
Right: -7.517 ± 0.120 χ^2/NDF : 814.3/55

In: -5.782 ± 0.040 χ^2/NDF : 2918.2/48

Out: -5.810 ± 0.040 χ^2/NDF : 2683.0/54

All: -5.796 ± 0.028 χ^2/NDF : 5601.5/103

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

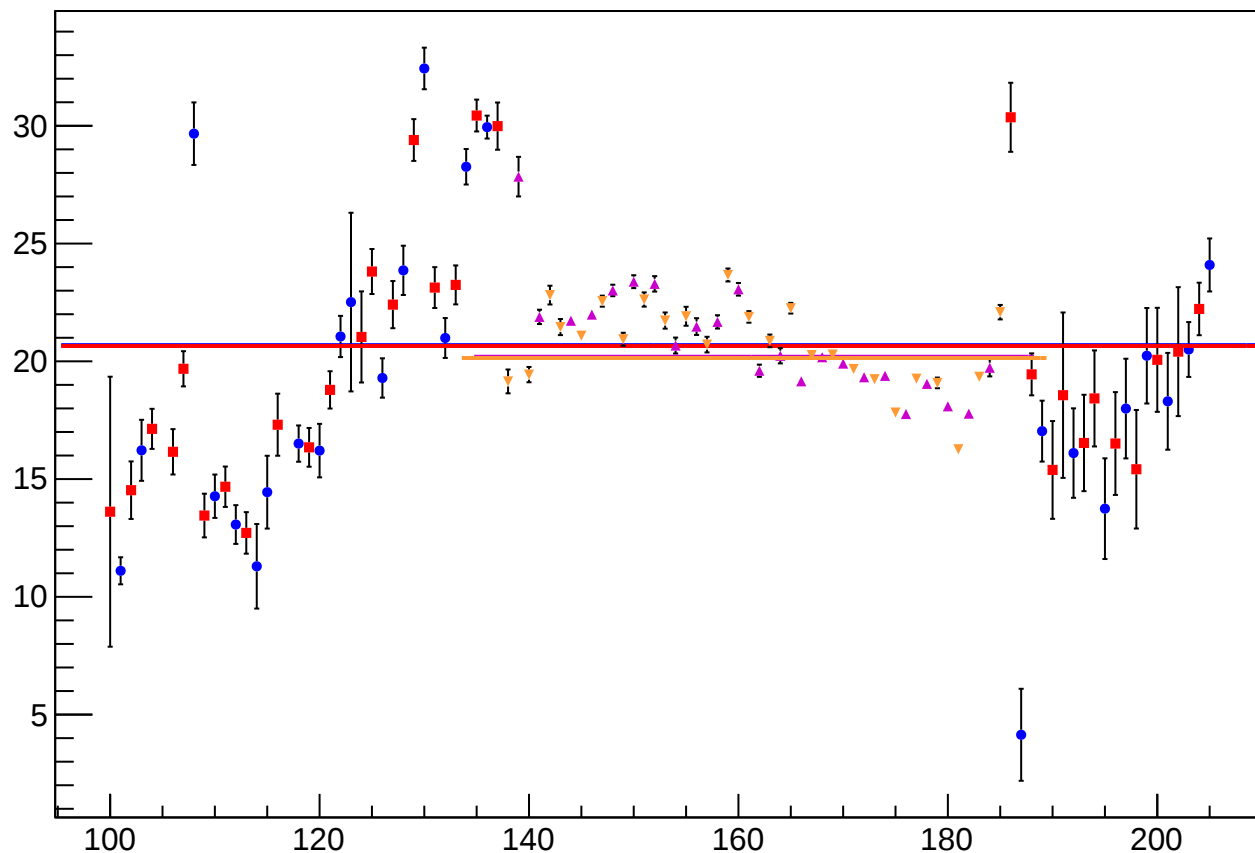


Right In: 2.548 ± 0.224 $\chi^2/\text{NDF}: 1325.4/25$
 Left Out: -2.092 ± 0.051 $\chi^2/\text{NDF}: 16305.3/24$
 Right Out: -1.366 ± 0.199 $\chi^2/\text{NDF}: 4074.4/29$
 Left In: -1.980 ± 0.051 $\chi^2/\text{NDF}: 15382.3/22$

Left: -2.036 ± 0.036 $\chi^2/\text{NDF}: 31690.0/47$
 Right: 0.363 ± 0.149 $\chi^2/\text{NDF}: 5570.3/55$
 In: -1.755 ± 0.050 $\chi^2/\text{NDF}: 17096.1/48$
 Out: -2.047 ± 0.050 $\chi^2/\text{NDF}: 20392.2/54$

All: -1.901 ± 0.035 $\chi^2/\text{NDF}: 37505.4/103$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.687 $\pm$ 0.196 χ^2 /NDF: 1320.5/25

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF: 1419.1/24

Right Out: 20.651 $\pm$ 0.196 χ^2 /NDF: 789.4/29

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

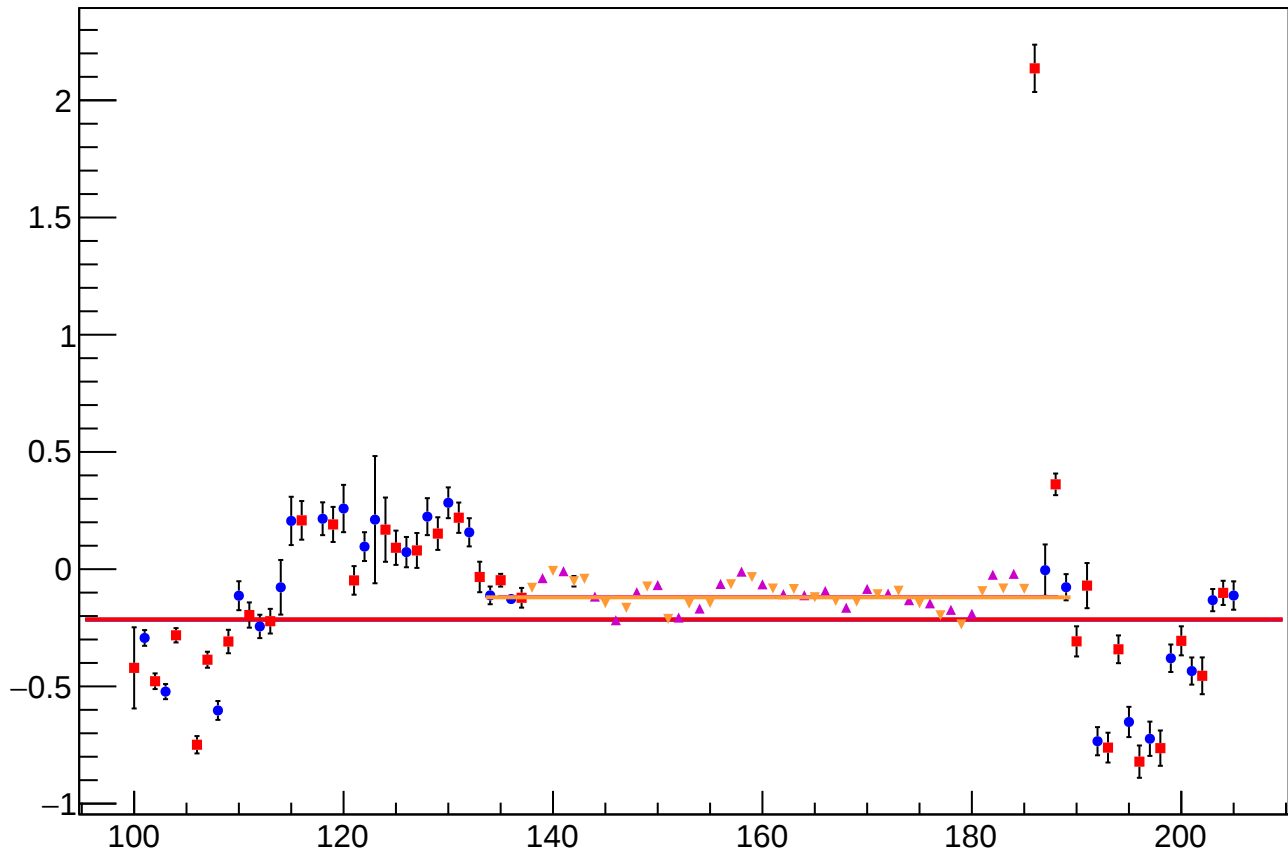
Right: 20.669 $\pm$ 0.139 χ^2 /NDF: 2109.9/55

In: 20.220 $\pm$ 0.045 χ^2 /NDF: 2773.9/48

Out: 20.167 $\pm$ 0.045 χ^2 /NDF: 2215.0/54

All: 20.194 $\pm$ 0.032 χ^2 /NDF: 4989.5/103

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.215 ± 0.010 χ^2/NDF : 678.4/25

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.214 ± 0.010 χ^2/NDF : 1461.7/29

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

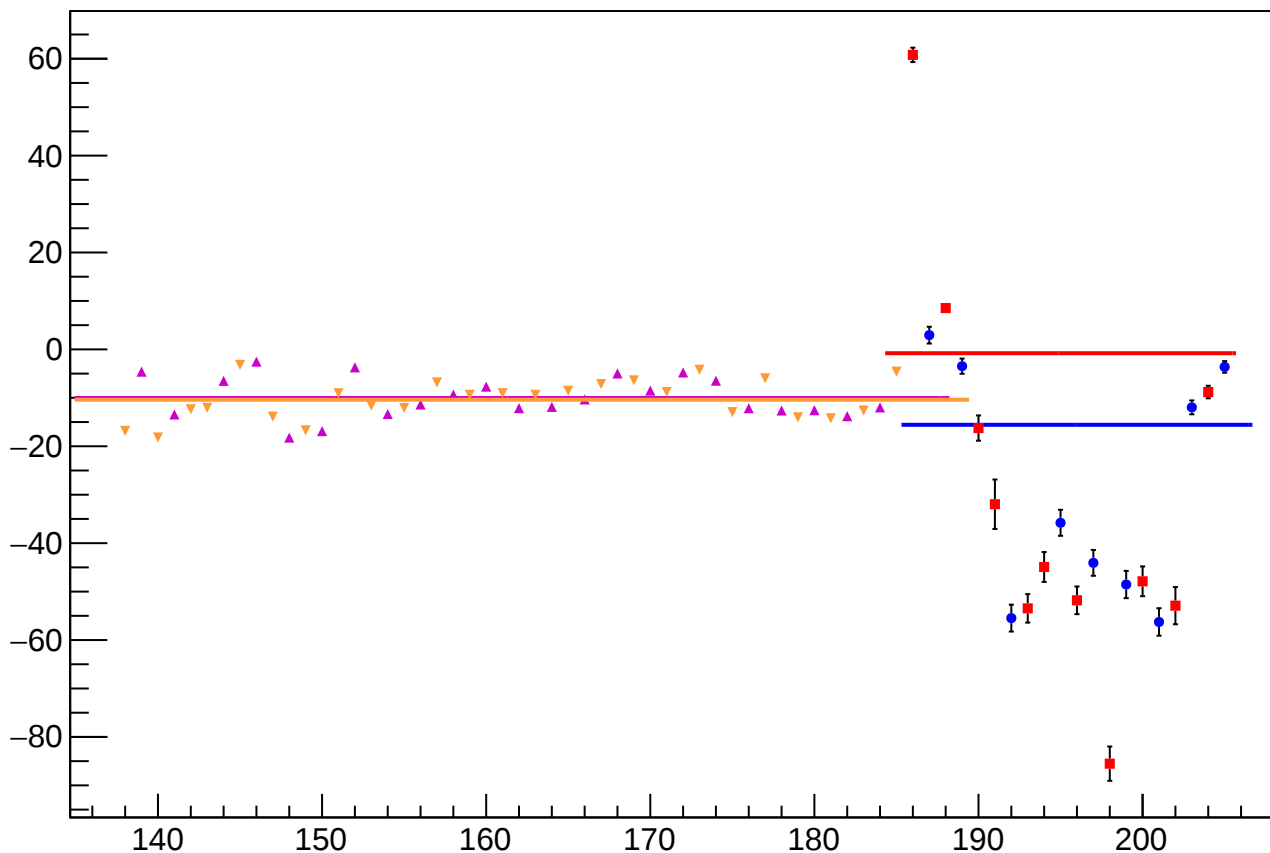
Right: -0.215 ± 0.007 χ^2/NDF : 2140.1/55

In: -0.123 ± 0.002 χ^2/NDF : 1492.9/48

Out: -0.124 ± 0.002 χ^2/NDF : 2084.6/54

All: -0.124 ± 0.001 χ^2/NDF : 3577.8/103

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected

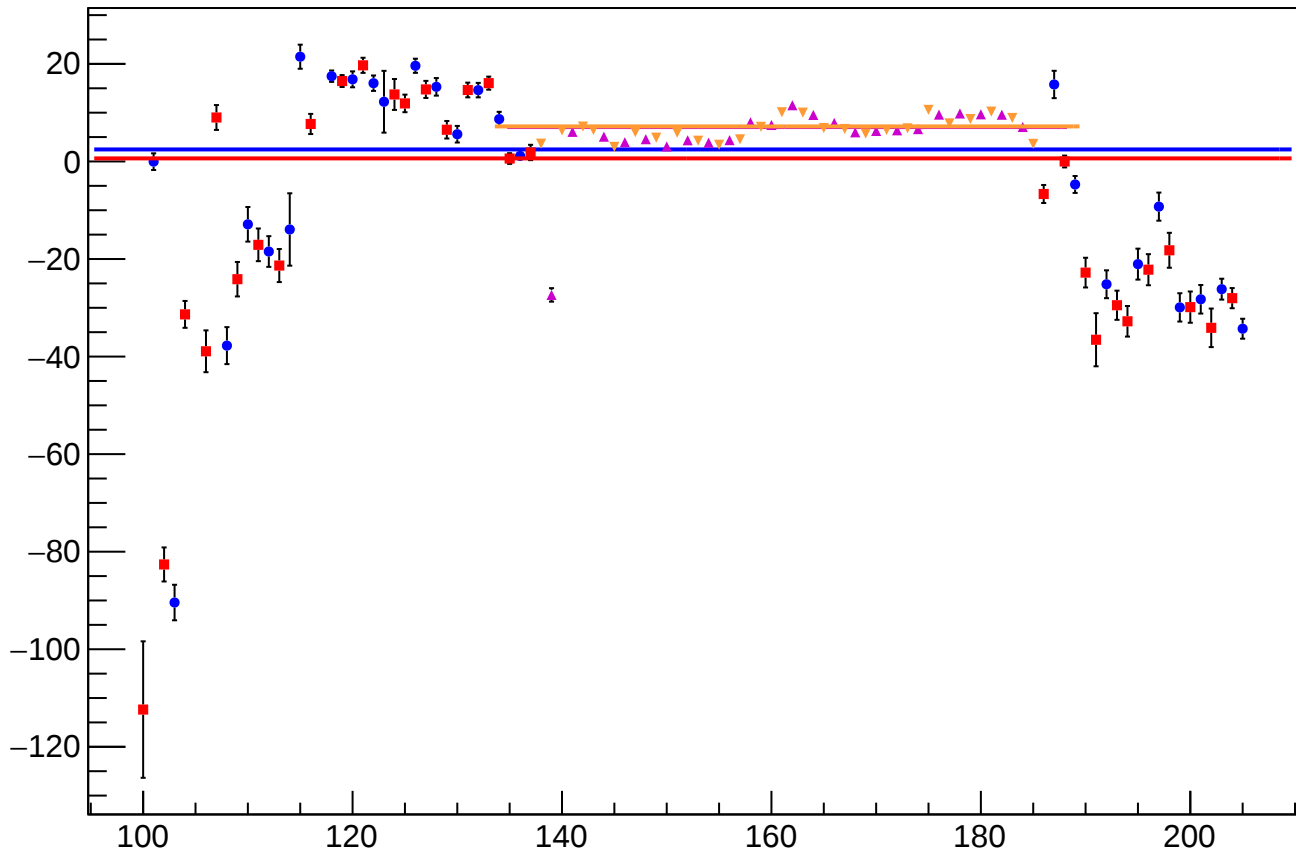


Right In: -15.568 ± 0.622 $\chi^2/\text{NDF}: 1000.5/8$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: -0.791 ± 0.560 $\chi^2/\text{NDF}: 3780.7/10$
 Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$
 Right: -7.413 ± 0.416 $\chi^2/\text{NDF}: 5092.8/19$
 In: -10.148 ± 0.089 $\chi^2/\text{NDF}: 2836.7/31$
 Out: -10.161 ± 0.087 $\chi^2/\text{NDF}: 6178.8/35$

All: -10.154 ± 0.062 $\chi^2/\text{NDF}: 9015.5/67$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.465 ± 0.364 χ^2/NDF : 2435.0/25

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: 0.627 ± 0.373 χ^2/NDF : 2443.4/29

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

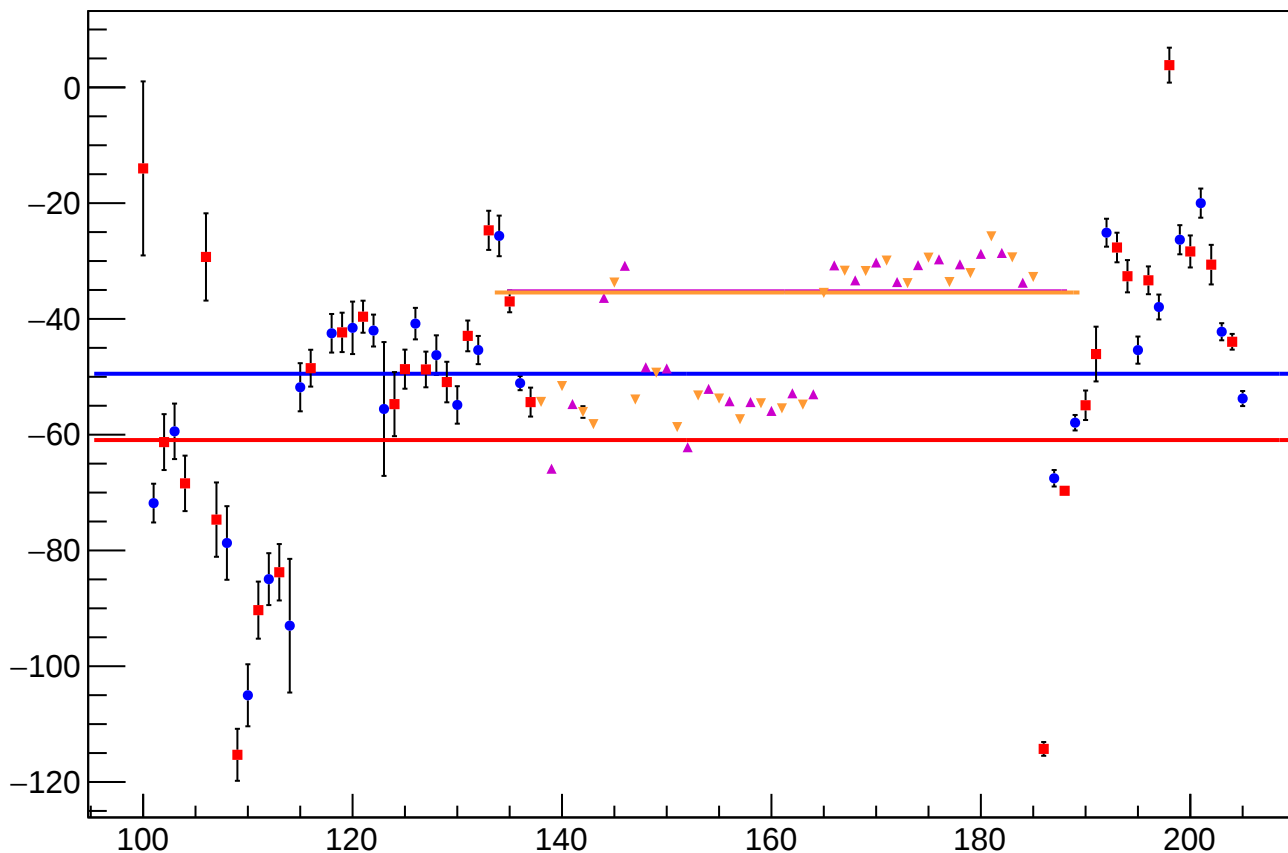
Right: 1.567 ± 0.261 χ^2/NDF : 4890.8/55

In: 6.870 ± 0.073 χ^2/NDF : 4123.0/48

Out: 6.939 ± 0.072 χ^2/NDF : 3658.1/54

All: 6.905 ± 0.051 χ^2/NDF : 7781.5/103

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -49.474 $\pm$ 0.456 χ^2 /NDF: 925.4/25

Left Out: -35.434 $\pm$ 0.089 χ^2 /NDF:12782.8/24

Right Out: -60.927 $\pm$ 0.412 χ^2 /NDF: 4142.8/29

Left In: -35.229 $\pm$ 0.090 χ^2 /NDF:11602.9/22

Left: -35.333 $\pm$ 0.063 χ^2 /NDF: 24388.3/47

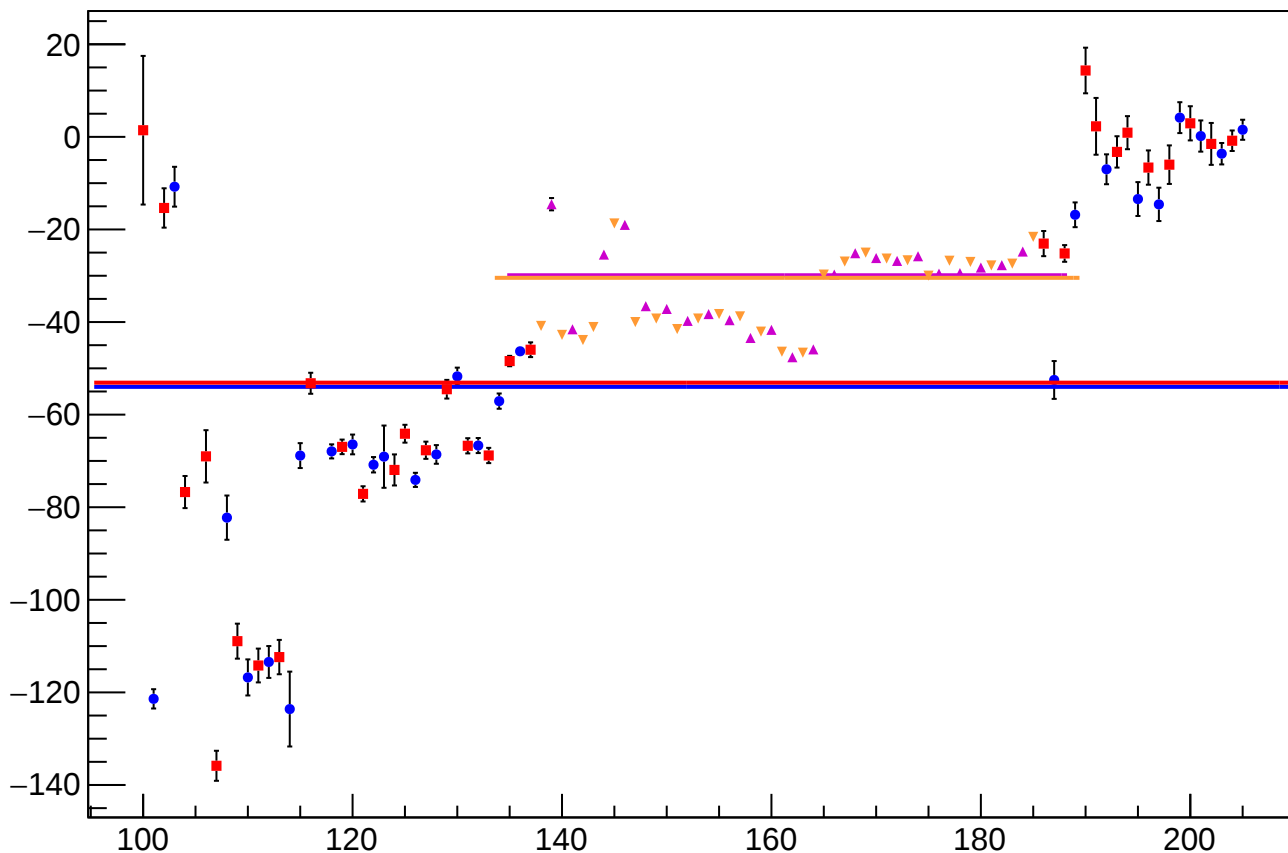
Right: -55.776 $\pm$ 0.306 χ^2 /NDF: 5415.0/55

In: -35.764 $\pm$ 0.088 χ^2 /NDF:13466.7/48

Out: -36.569 $\pm$ 0.087 χ^2 /NDF:20575.9/54

All: -36.173 $\pm$ 0.062 χ^2 /NDF: 34084.7/103

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -54.000 ± 0.409 $\chi^2/\text{NDF}: 4793.8/25$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -53.094 ± 0.430 $\chi^2/\text{NDF}: 4440.8/29$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

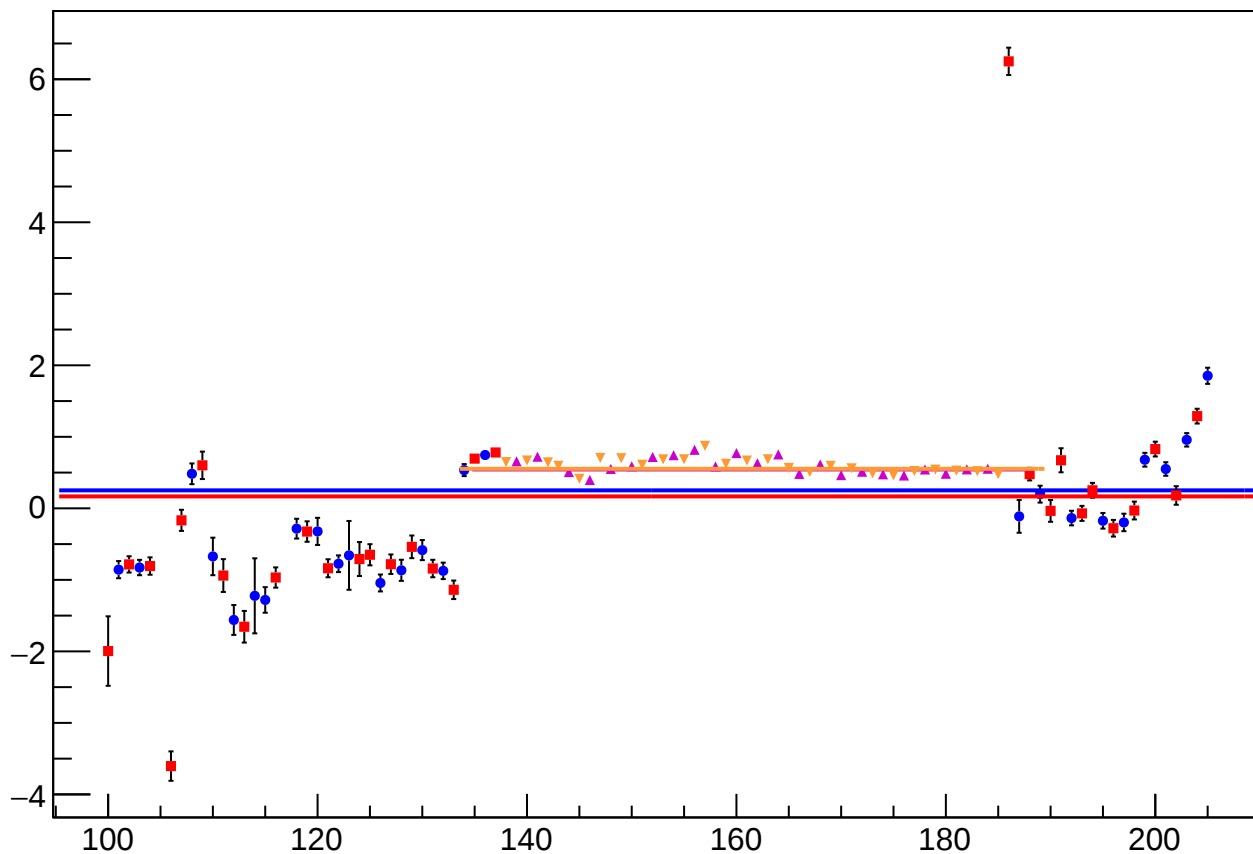
Right: -53.570 ± 0.296 $\chi^2/\text{NDF}: 9236.9/55$

In: -30.837 ± 0.081 $\chi^2/\text{NDF}: 15248.3/48$

Out: -31.233 ± 0.080 $\chi^2/\text{NDF}: 15284.2/54$

All: -31.037 ± 0.057 $\chi^2/\text{NDF}: 30544.7/103$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.251+/-0.020 χ^2/NDF : 1337.4/25

Left Out: 0.553+/-0.004 χ^2/NDF : 542.1/24

Right Out: 0.167+/-0.021 χ^2/NDF : 2450.7/29

Left In: 0.544+/-0.004 χ^2/NDF : 655.9/22

Left: 0.548+/-0.003 χ^2/NDF : 1200.9/47

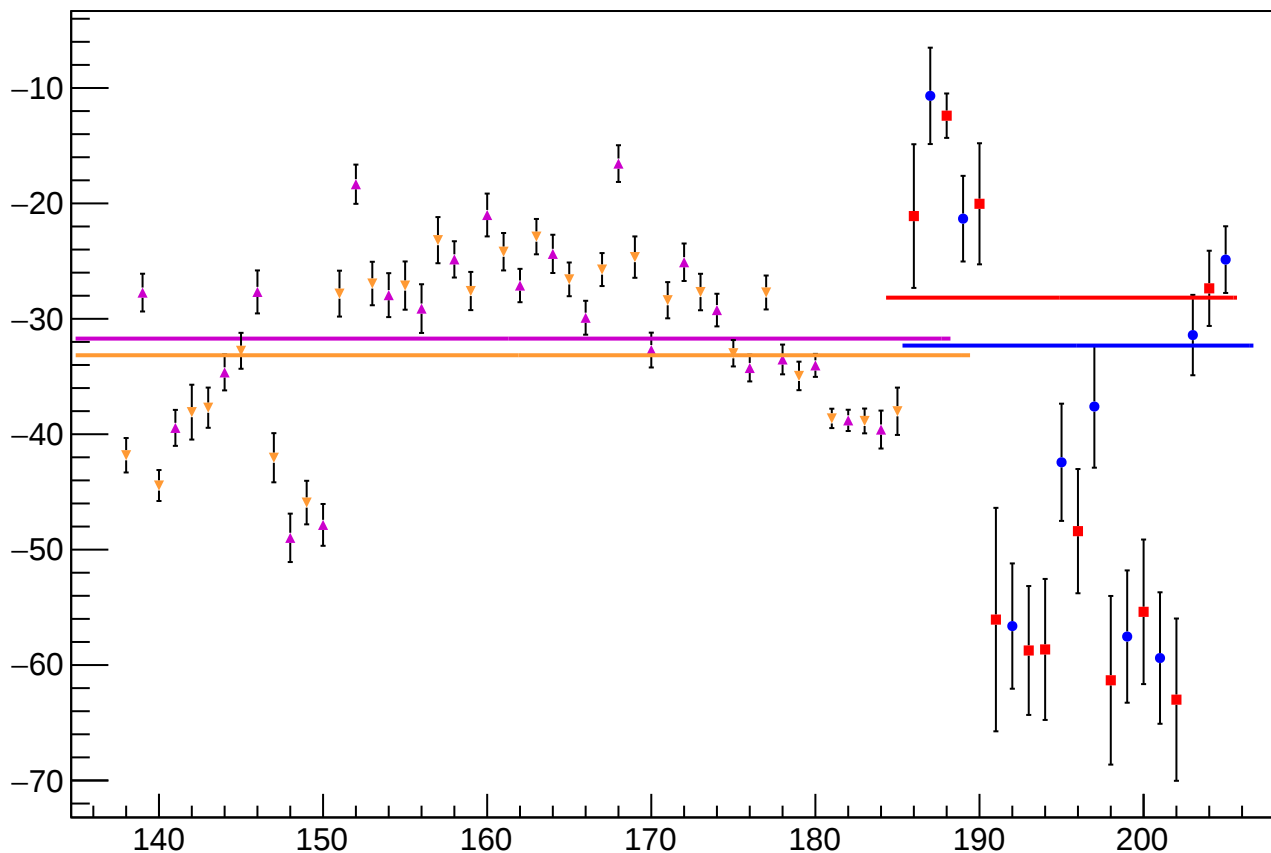
Right: 0.211+/-0.015 χ^2/NDF : 3796.6/55

In: 0.534+/-0.004 χ^2/NDF : 2197.5/48

Out: 0.541+/-0.004 χ^2/NDF : 3317.3/54

All: 0.538+/-0.003 χ^2/NDF : 5516.9/103

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



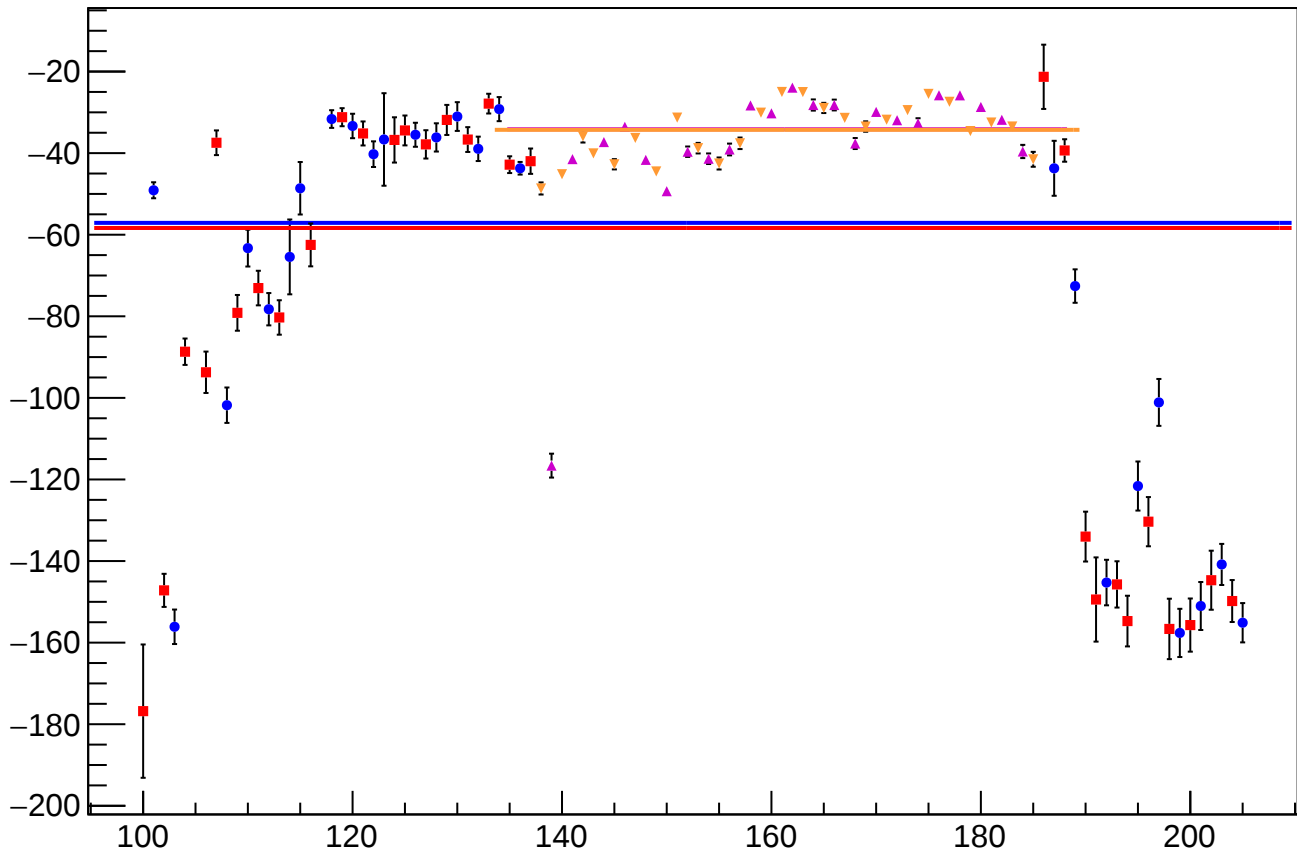
Right In: -32.318 ± 1.412 $\chi^2/\text{NDF}: 109.3/8$
 Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$
 Right Out: -28.166 ± 1.296 $\chi^2/\text{NDF}: 212.2/10$
 Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$
 Right: -30.066 ± 0.955 $\chi^2/\text{NDF}: 326.2/19$

In: -31.742 ± 0.302 $\chi^2/\text{NDF}: 651.7/31$
 Out: -32.903 ± 0.292 $\chi^2/\text{NDF}: 726.4/35$

All: -32.341 ± 0.210 $\chi^2/\text{NDF}: 1385.7/67$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.095 ± 0.676 $\chi^2/\text{NDF}: 2959.3/25$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -58.348 ± 0.694 $\chi^2/\text{NDF}: 3209.2/29$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

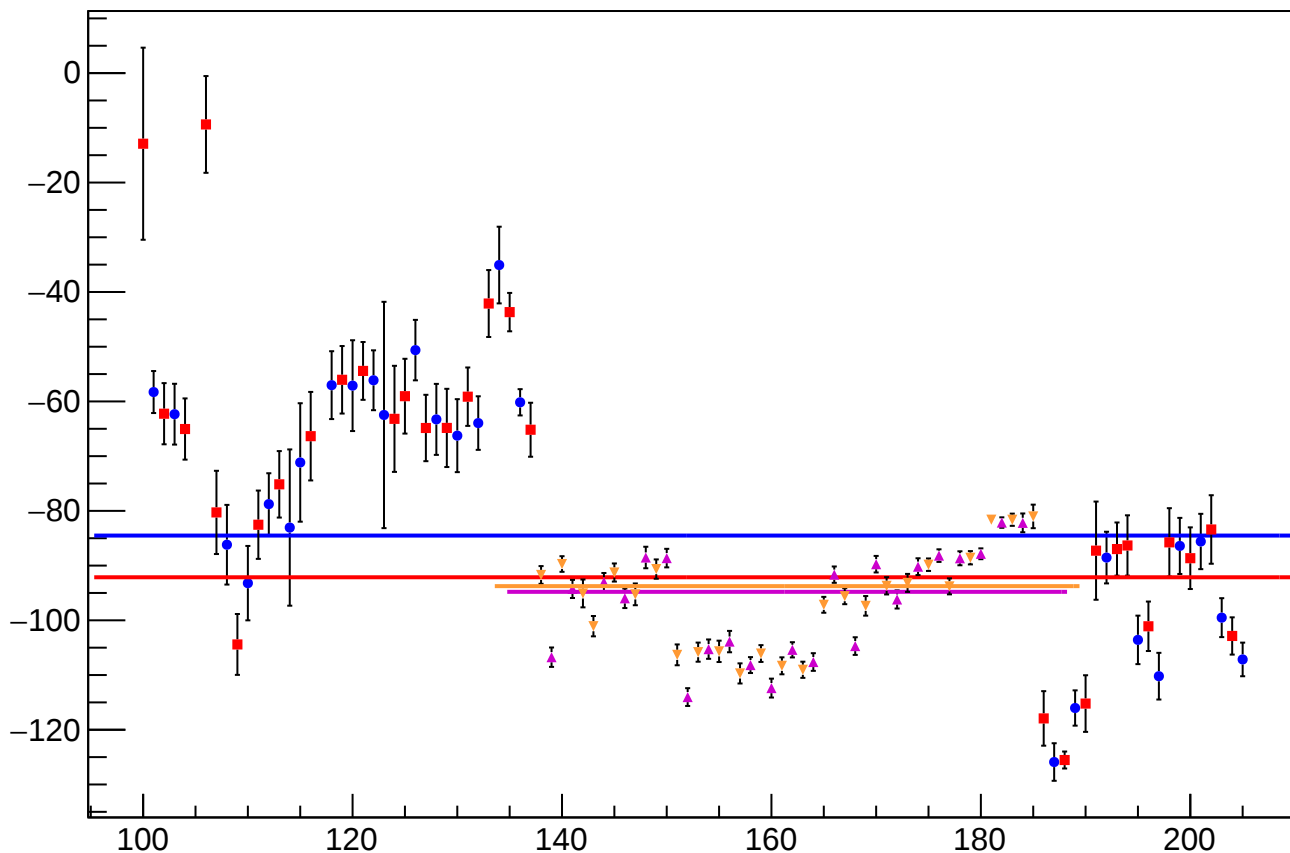
Right: -57.706 ± 0.484 $\chi^2/\text{NDF}: 6170.1/55$

In: -36.919 ± 0.235 $\chi^2/\text{NDF}: 5424.0/48$

Out: -36.888 ± 0.228 $\chi^2/\text{NDF}: 4977.6/54$

All: -36.903 ± 0.164 $\chi^2/\text{NDF}: 10401.6/103$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -84.512 ± 0.924 χ^2/NDF : 720.3/25

Left Out: -93.754 ± 0.302 χ^2/NDF : 883.1/24

Right Out: -92.134 ± 0.870 χ^2/NDF : 1196.0/29

Left In: -94.796 ± 0.308 χ^2/NDF : 974.7/22

Left: -94.264 ± 0.216 χ^2/NDF : 1863.6/47

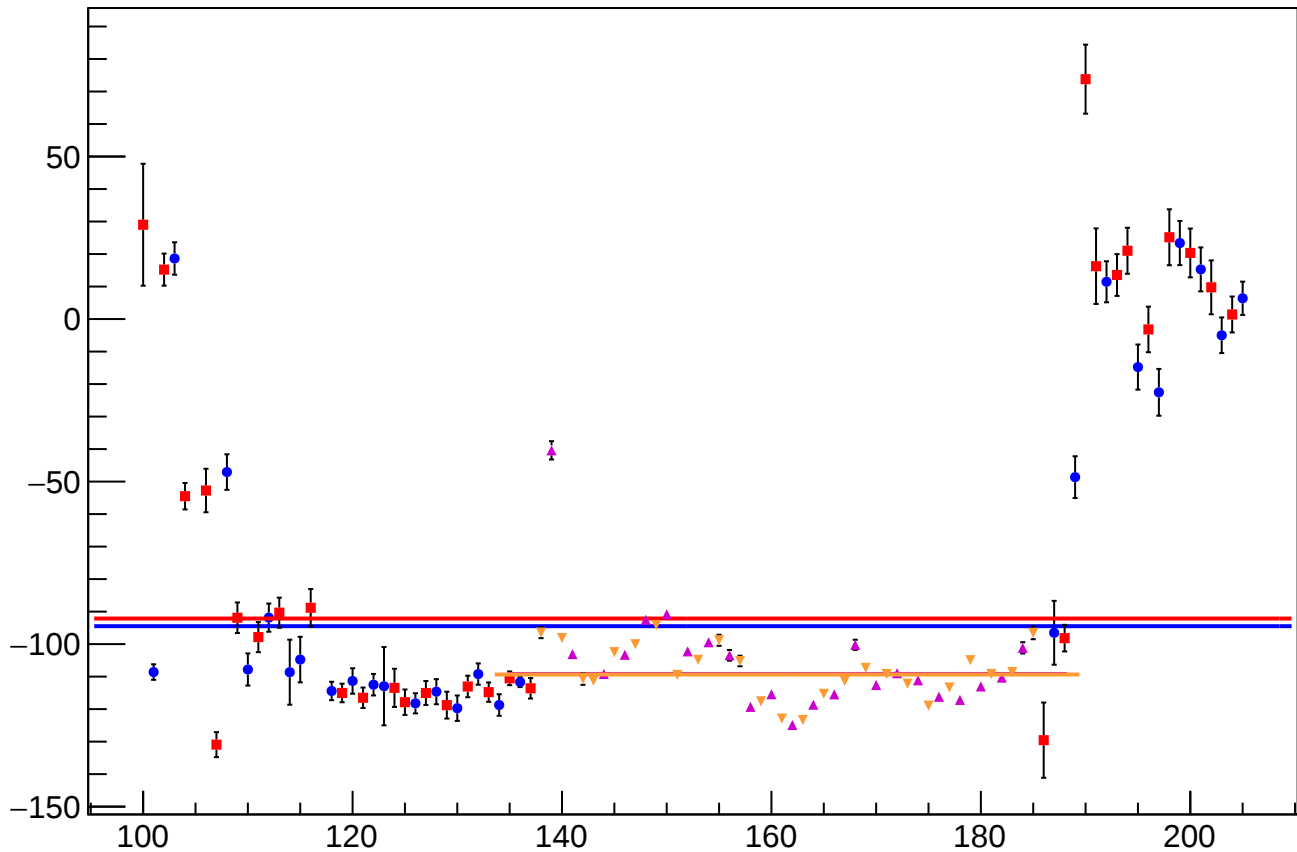
Right: -88.554 ± 0.633 χ^2/NDF : 1952.4/55

In: -93.766 ± 0.293 χ^2/NDF : 1806.4/48

Out: -93.580 ± 0.285 χ^2/NDF : 2082.2/54

All: -93.670 ± 0.204 χ^2/NDF : 3888.8/103

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -94.487 ± 0.765 $\chi^2/\text{NDF}: 2842.3/25$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -92.134 ± 0.798 $\chi^2/\text{NDF}: 3098.3/29$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

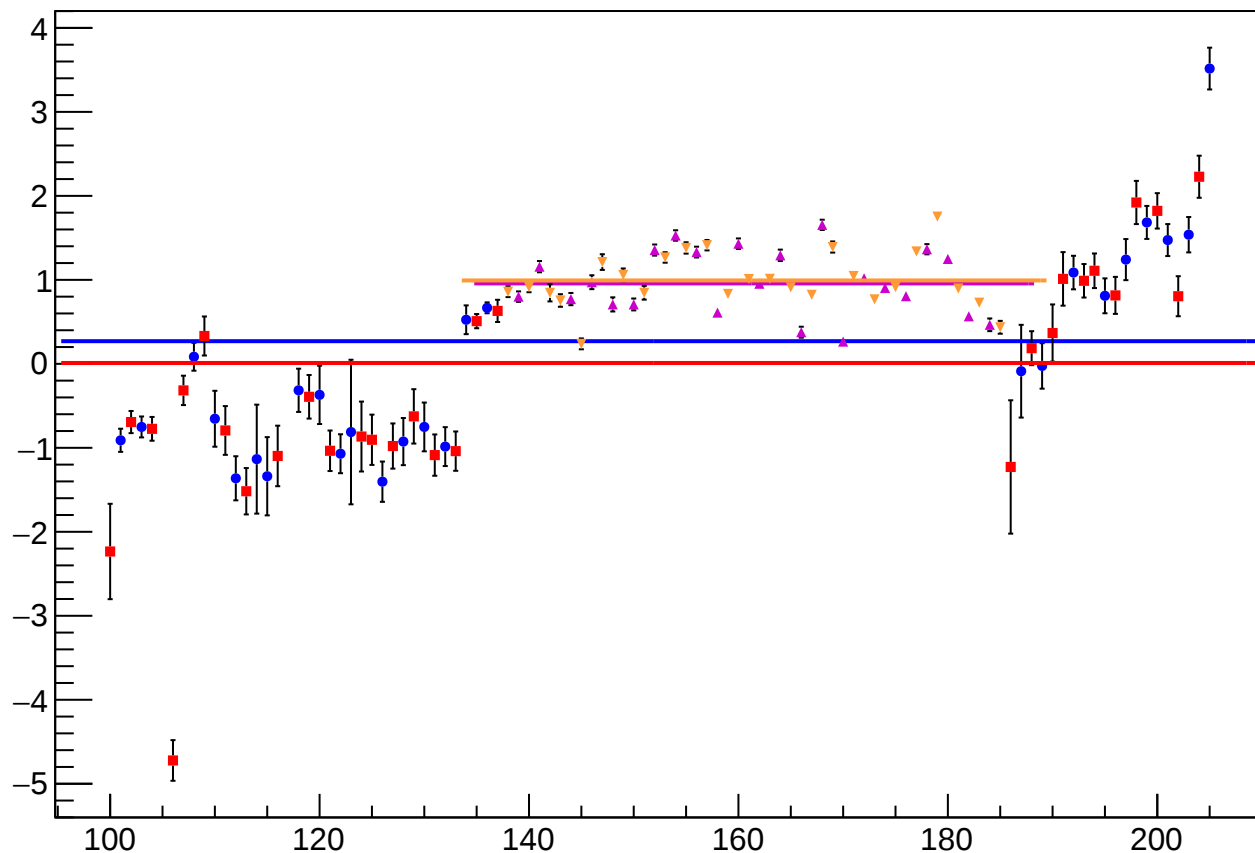
Right: -93.360 ± 0.552 $\chi^2/\text{NDF}: 5945.1/55$

In: -107.449 ± 0.263 $\chi^2/\text{NDF}: 4668.9/48$

Out: -107.568 ± 0.257 $\chi^2/\text{NDF}: 4342.4/54$

All: -107.510 ± 0.184 $\chi^2/\text{NDF}: 9011.4/103$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.270 ± 0.037 $\chi^2/\text{NDF}: 735.7/25$

Left Out: 0.993 ± 0.012 $\chi^2/\text{NDF}: 638.6/24$

Right Out: 0.010 ± 0.038 $\chi^2/\text{NDF}: 957.2/29$

Left In: 0.958 ± 0.013 $\chi^2/\text{NDF}: 894.5/22$

Left: 0.976 ± 0.009 $\chi^2/\text{NDF}: 1537.0/47$

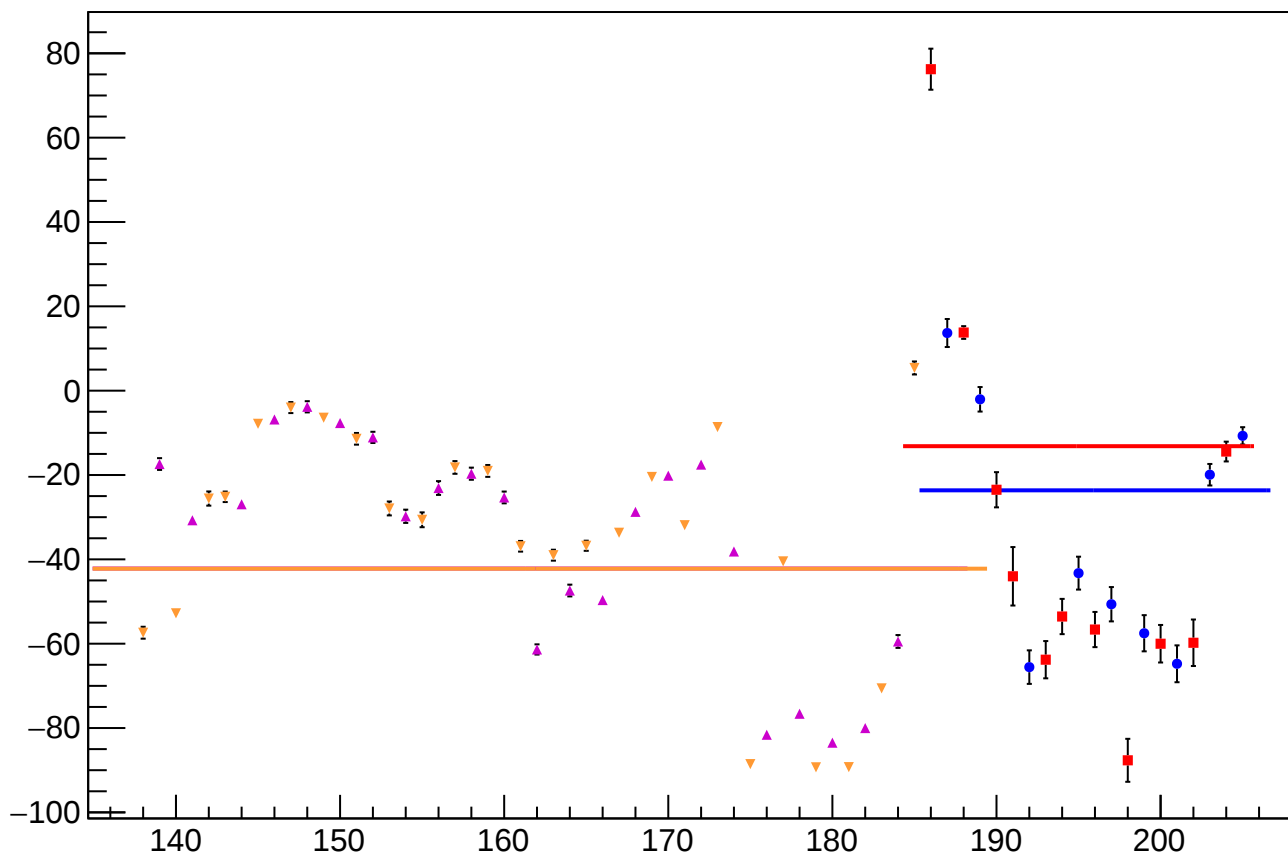
Right: 0.143 ± 0.026 $\chi^2/\text{NDF}: 1717.0/55$

In: 0.886 ± 0.012 $\chi^2/\text{NDF}: 1940.8/48$

Out: 0.897 ± 0.012 $\chi^2/\text{NDF}: 2206.3/54$

All: 0.892 ± 0.008 $\chi^2/\text{NDF}: 4147.6/103$

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.633 ± 1.057 $\chi^2/\text{NDF}: 554.3/8$

Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$

Right Out: -13.164 ± 0.985 $\chi^2/\text{NDF}: 1412.3/10$

Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$

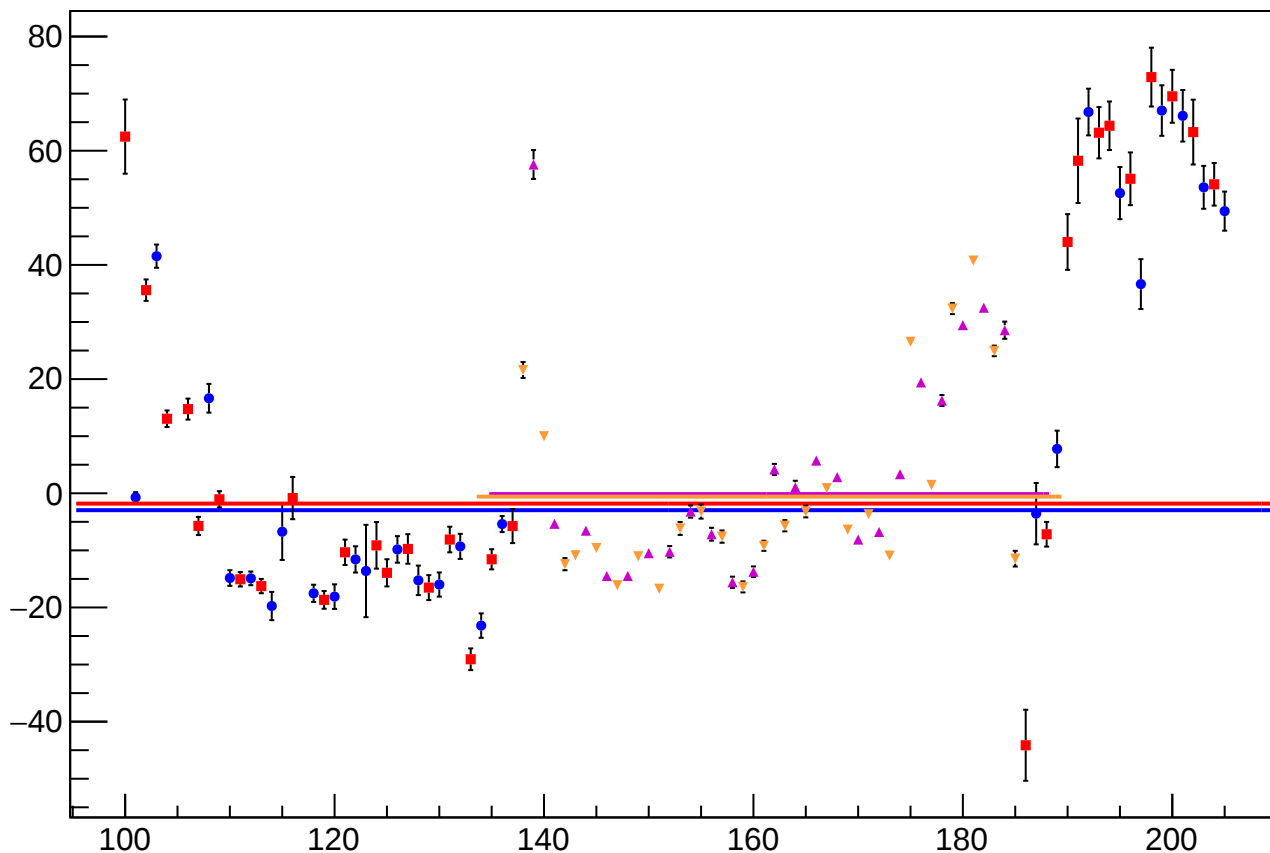
Right: -18.034 ± 0.721 $\chi^2/\text{NDF}: 2019.1/19$

In: -41.358 ± 0.222 $\chi^2/\text{NDF}: 15424.6/31$

Out: -40.810 ± 0.217 $\chi^2/\text{NDF}: 20548.4/35$

All: -41.077 ± 0.155 $\chi^2/\text{NDF}: 35976.0/67$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.961 ± 0.410 χ^2/NDF : 2572.3/25

Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24

Right Out: -1.807 ± 0.406 χ^2/NDF : 3004.9/29

Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47

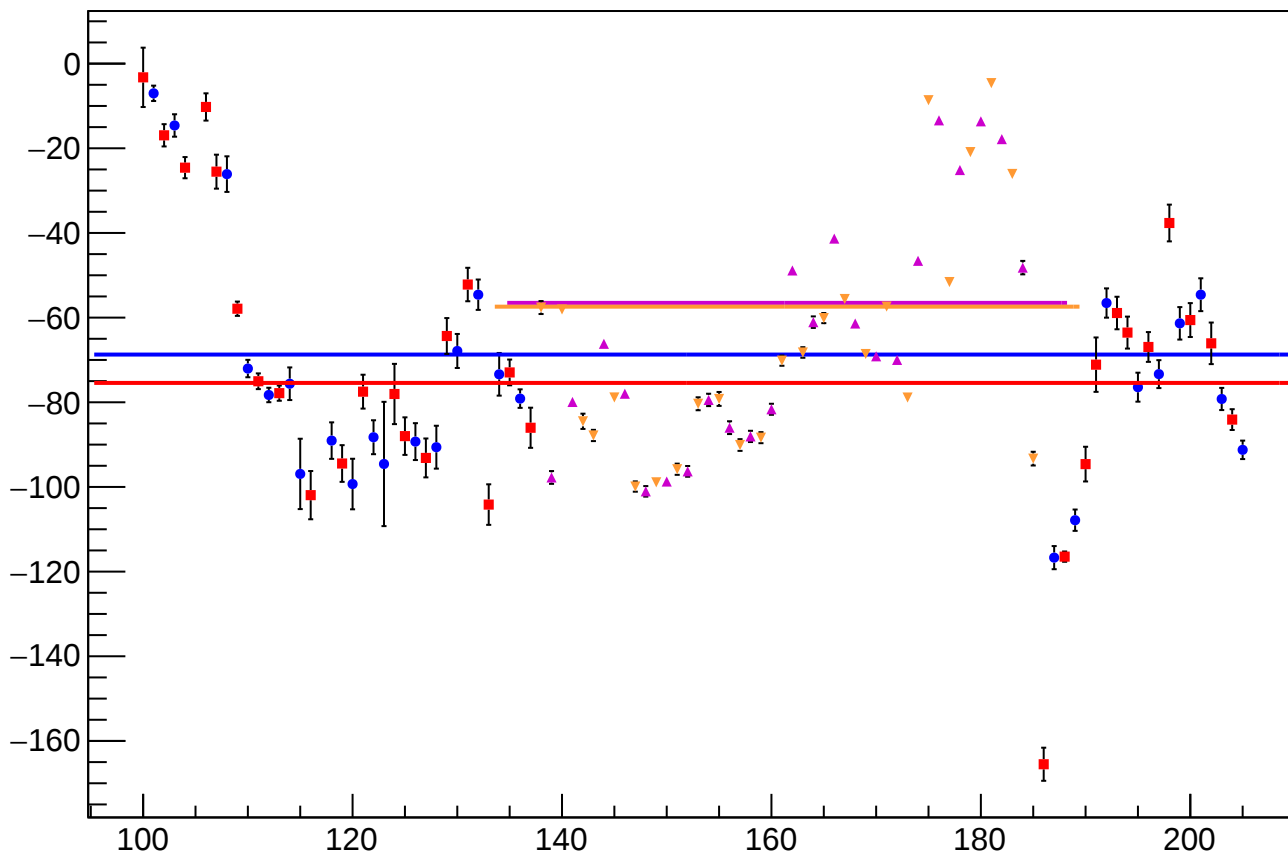
Right: -2.378 ± 0.289 χ^2/NDF : 5581.1/55

In: -0.593 ± 0.164 χ^2/NDF : 9474.4/48

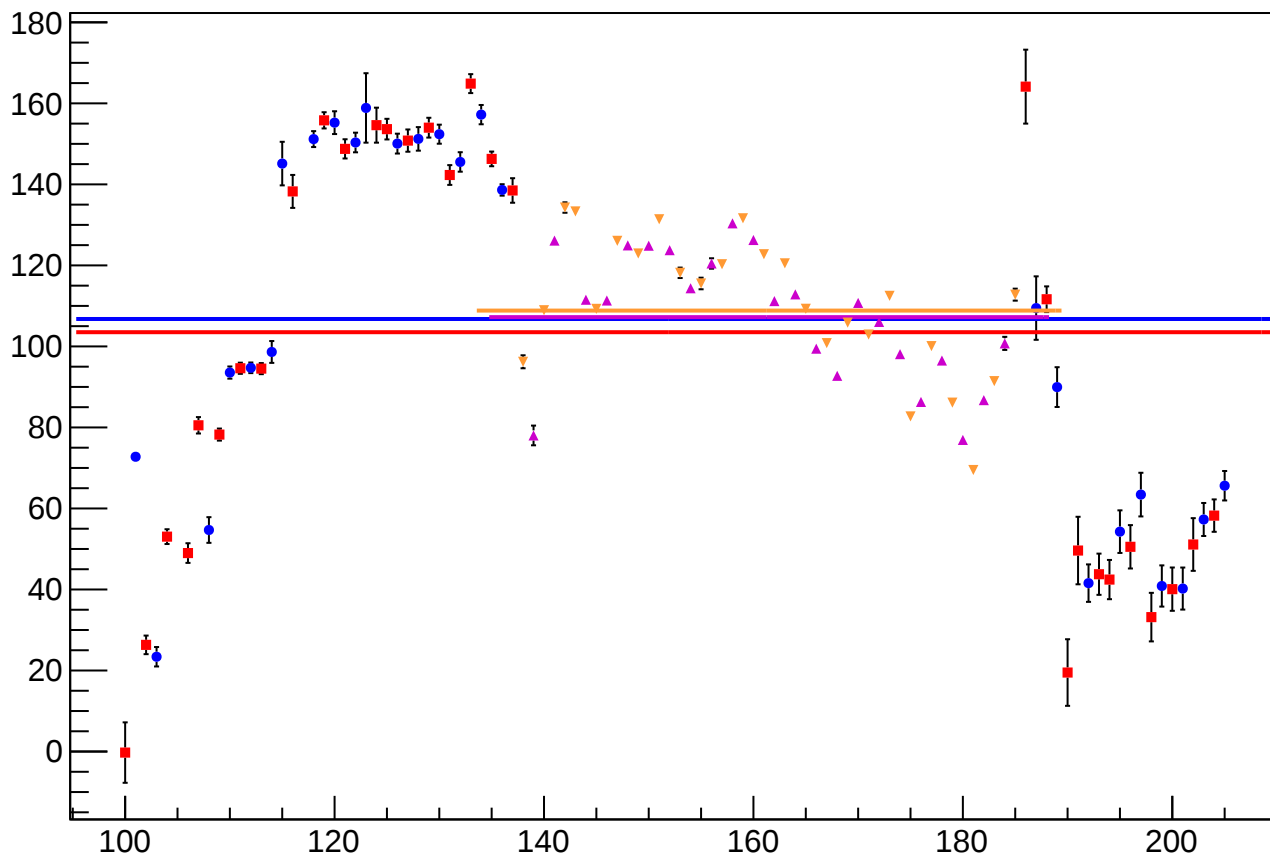
Out: -0.779 ± 0.160 χ^2/NDF : 11763.4/54

All: -0.688 ± 0.115 χ^2/NDF : 21238.4/103

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 106.770 $\pm$ 0.469 χ^2 /NDF: 6926.0/25

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF:7400.2/24

Right Out: 103.510 $\pm$ 0.466 χ^2 /NDF: 8163.3/29

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

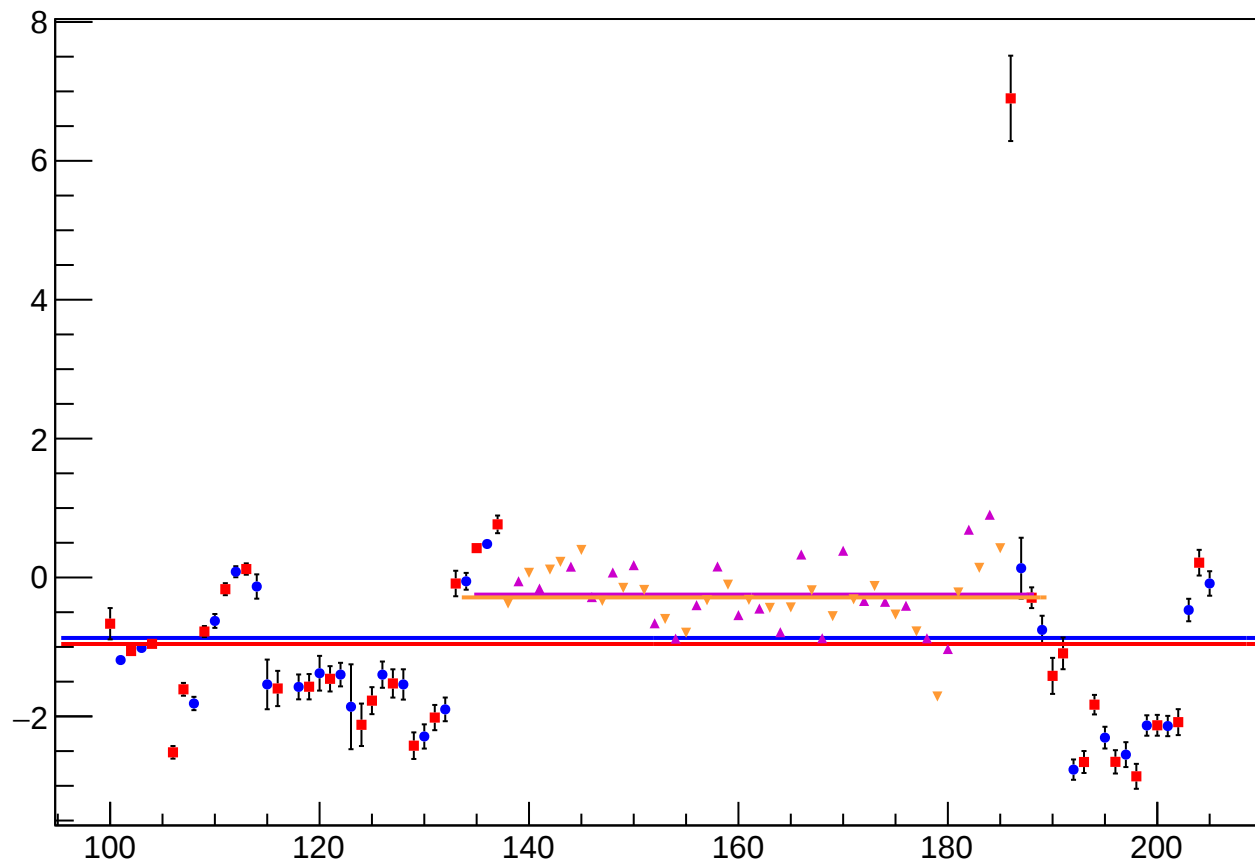
Right: 105.132 $\pm$ 0.331 χ^2 /NDF: 15113.6/55

In: 107.153 $\pm$ 0.186 χ^2 /NDF:12492.0/48

Out: 108.036 $\pm$ 0.182 χ^2 /NDF:15674.7/54

All: 107.604 $\pm$ 0.130 χ^2 /NDF: 28178.2/103

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.871 ± 0.024 χ^2/NDF : 1557.1/25

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.958 ± 0.022 χ^2/NDF : 2029.8/29

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

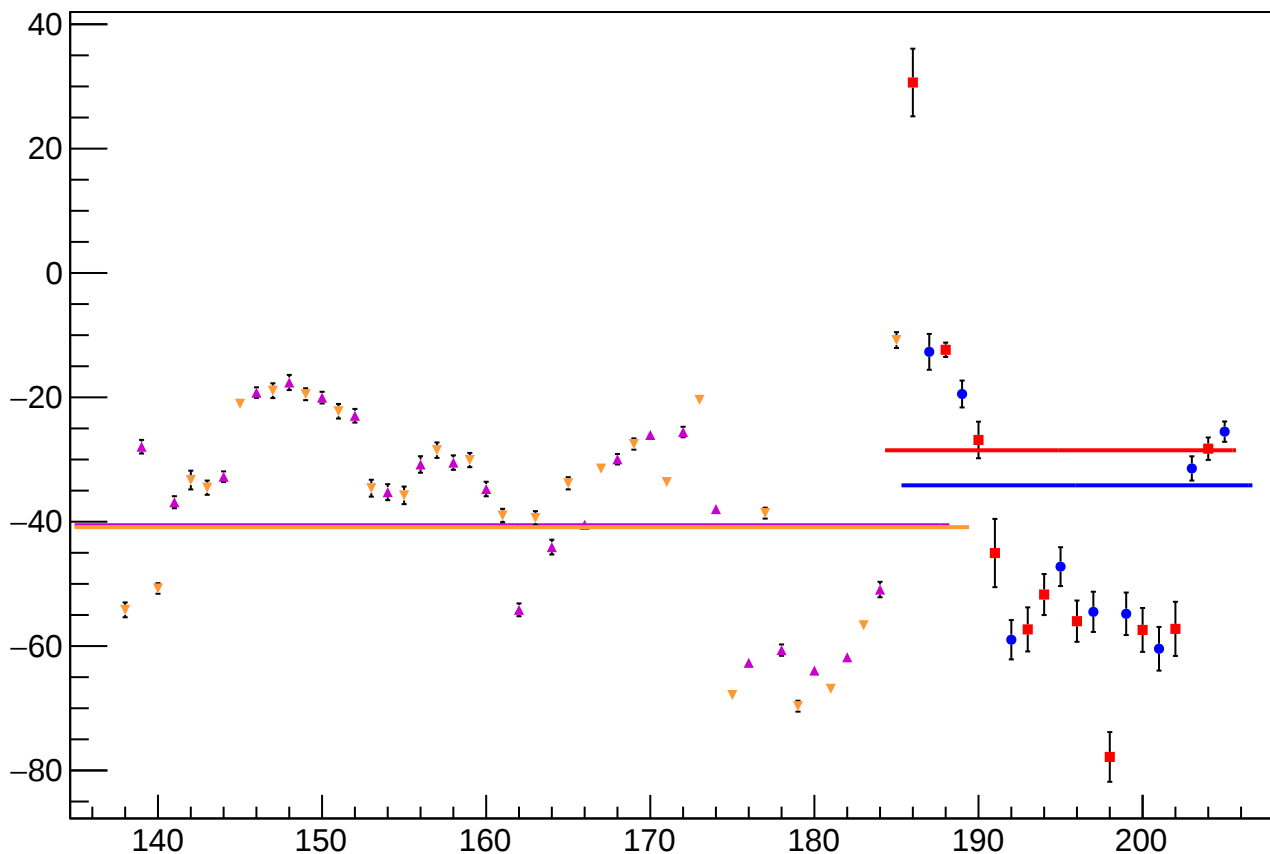
Right: -0.917 ± 0.016 χ^2/NDF : 3594.2/55

In: -0.330 ± 0.009 χ^2/NDF : 4959.6/48

Out: -0.383 ± 0.008 χ^2/NDF : 4863.1/54

All: -0.357 ± 0.006 χ^2/NDF : 9841.6/103

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



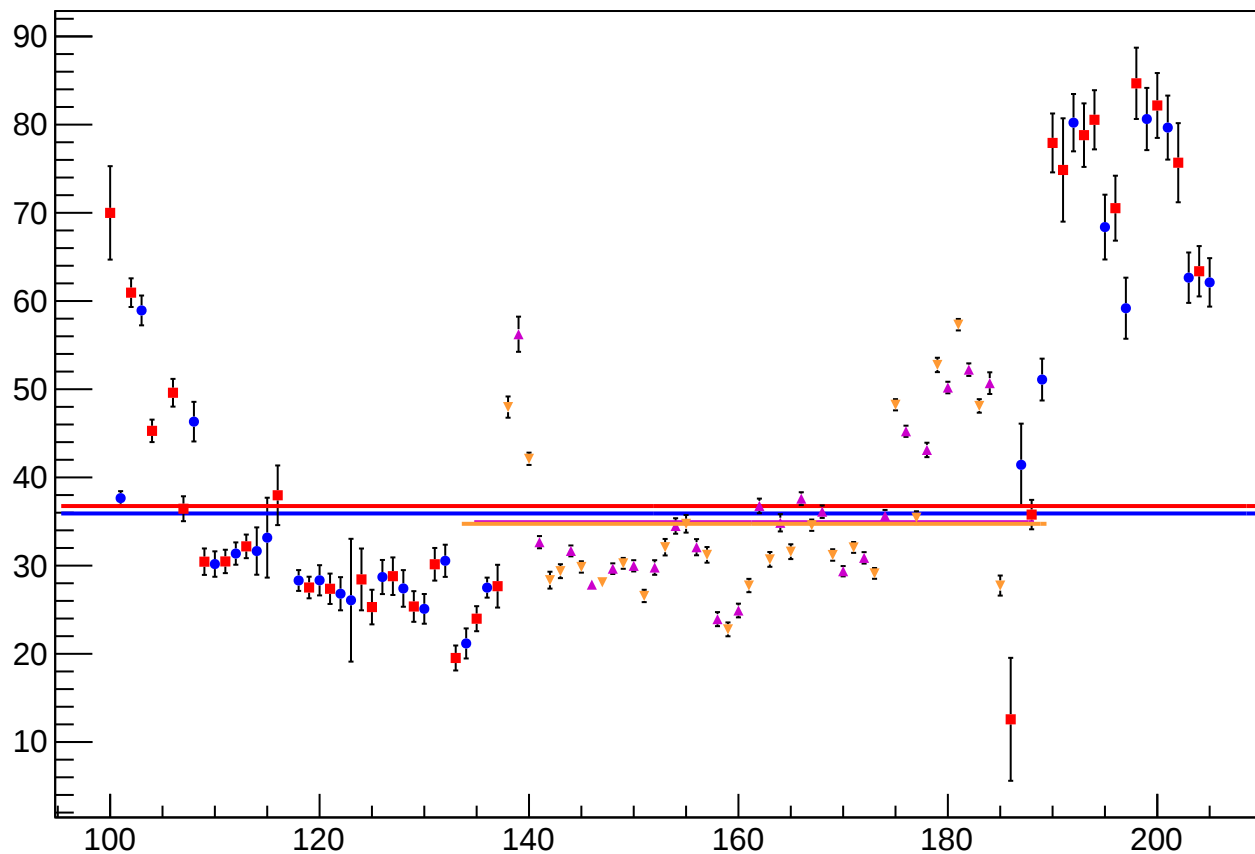
Right In: -34.151 ± 0.835 $\chi^2/\text{NDF}: 342.6/8$
 Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$
 Right Out: -28.513 ± 0.768 $\chi^2/\text{NDF}: 770.0/10$
 Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$
 Right: -31.097 ± 0.565 $\chi^2/\text{NDF}: 1137.3/19$

In: -40.251 ± 0.185 $\chi^2/\text{NDF}: 7353.5/31$
 Out: -40.193 ± 0.181 $\chi^2/\text{NDF}: 10138.3/35$

All: -40.222 ± 0.129 $\chi^2/\text{NDF}: 17491.8/67$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.913 $\pm$ 0.354 χ^2 /NDF: 1376.1/25

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF:3693.2/24

Right Out: 36.754 $\pm$ 0.354 χ^2 /NDF: 1916.8/29

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

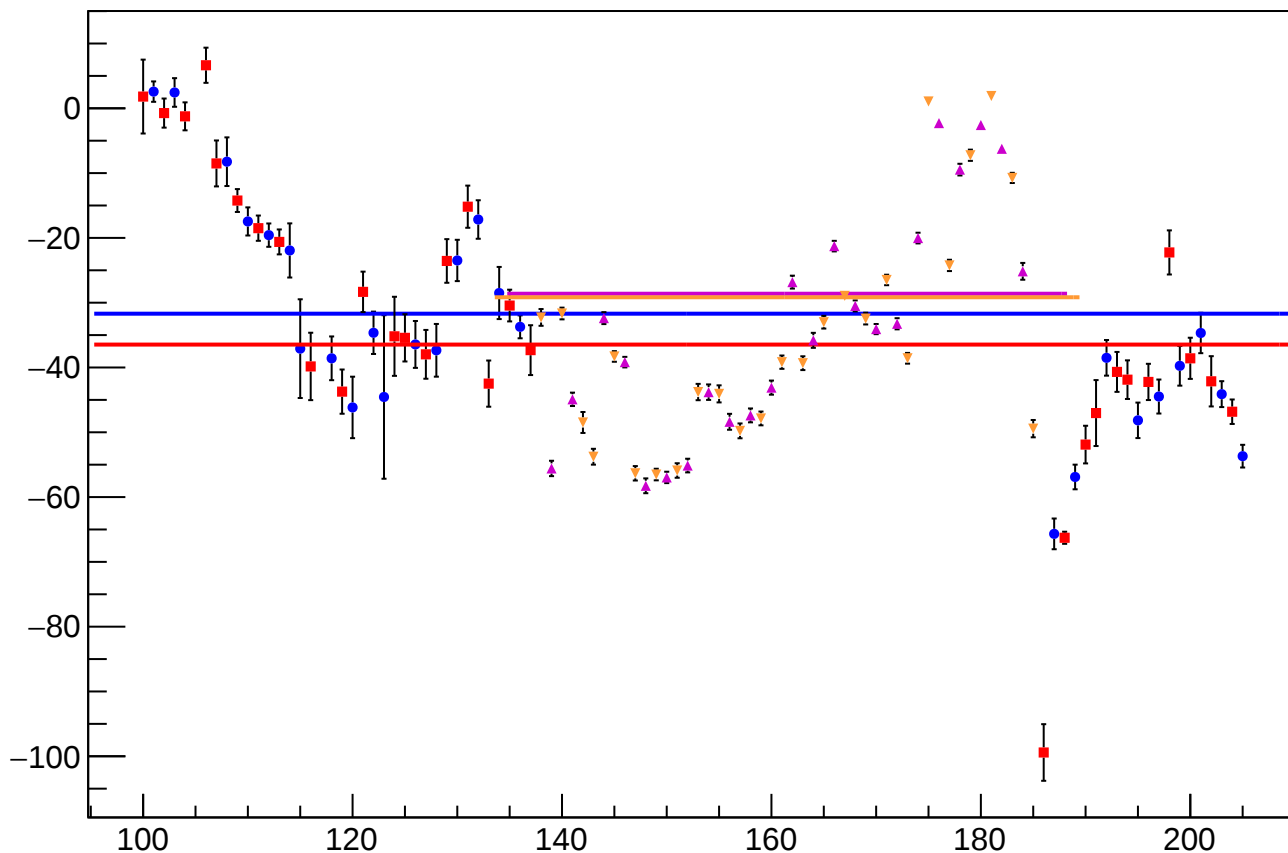
Right: 36.334 $\pm$ 0.250 χ^2 /NDF: 3295.8/55

In: 35.075 $\pm$ 0.139 χ^2 /NDF:4055.6/48

Out: 35.039 $\pm$ 0.136 χ^2 /NDF:5637.6/54

All: 35.057 $\pm$ 0.097 χ^2 /NDF: 9693.2/103

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -31.697 ± 0.507 $\chi^2/\text{NDF}: 1548.9/25$

Left Out: -29.163 ± 0.187 $\chi^2/\text{NDF}: 10126.0/24$

Right Out: -36.464 ± 0.464 $\chi^2/\text{NDF}: 2587.3/29$

Left In: -28.616 ± 0.190 $\chi^2/\text{NDF}: 9040.9/22$

Left: -28.894 ± 0.133 $\chi^2/\text{NDF}: 19171.1/47$

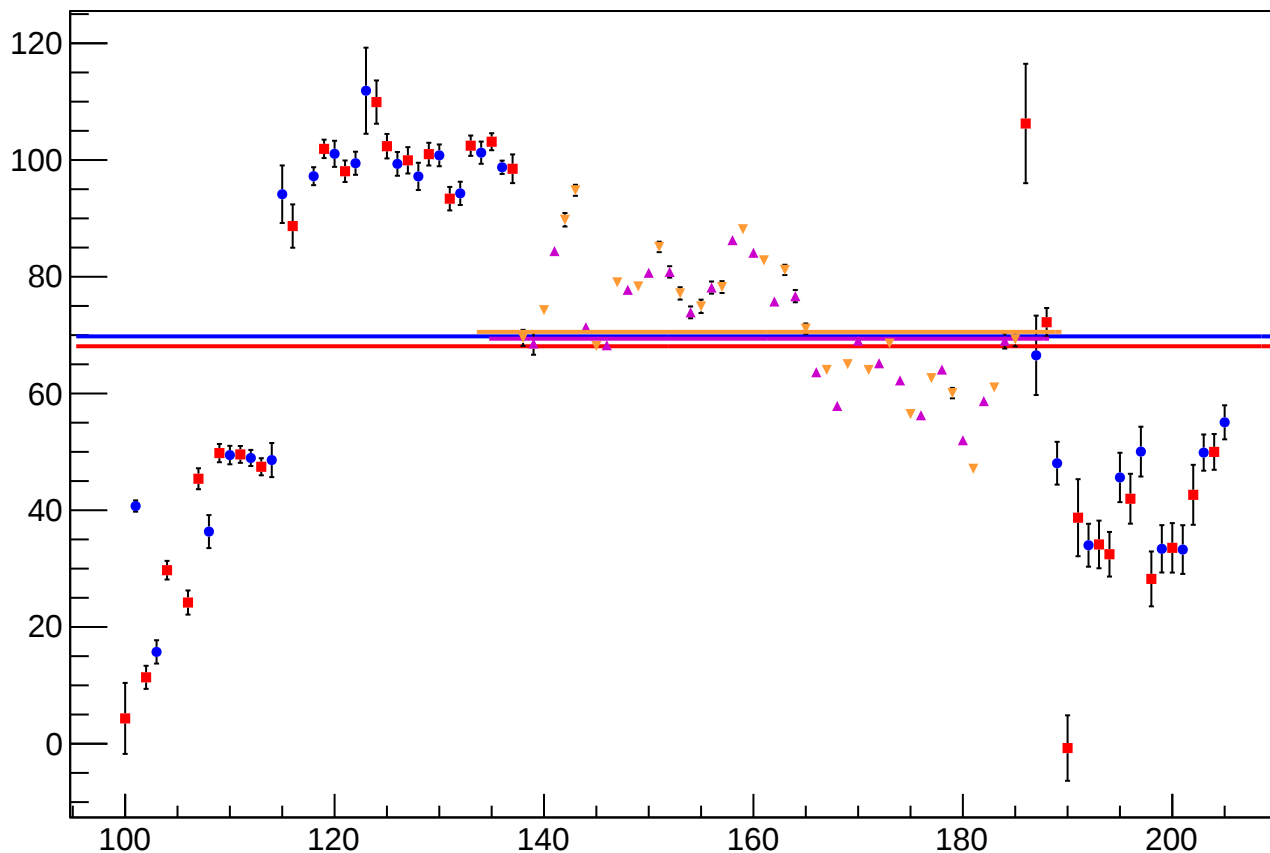
Right: -34.291 ± 0.342 $\chi^2/\text{NDF}: 4184.3/55$

In: -28.995 ± 0.178 $\chi^2/\text{NDF}: 10622.2/48$

Out: -30.183 ± 0.173 $\chi^2/\text{NDF}: 12926.2/54$

All: -29.603 ± 0.124 $\chi^2/\text{NDF}: 23571.2/103$

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 69.789 $\pm$ 0.406 χ^2 /NDF: 5121.2/25

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF: 4589.1/24

Right Out: 68.093 $\pm$ 0.409 χ^2 /NDF: 6111.6/29

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

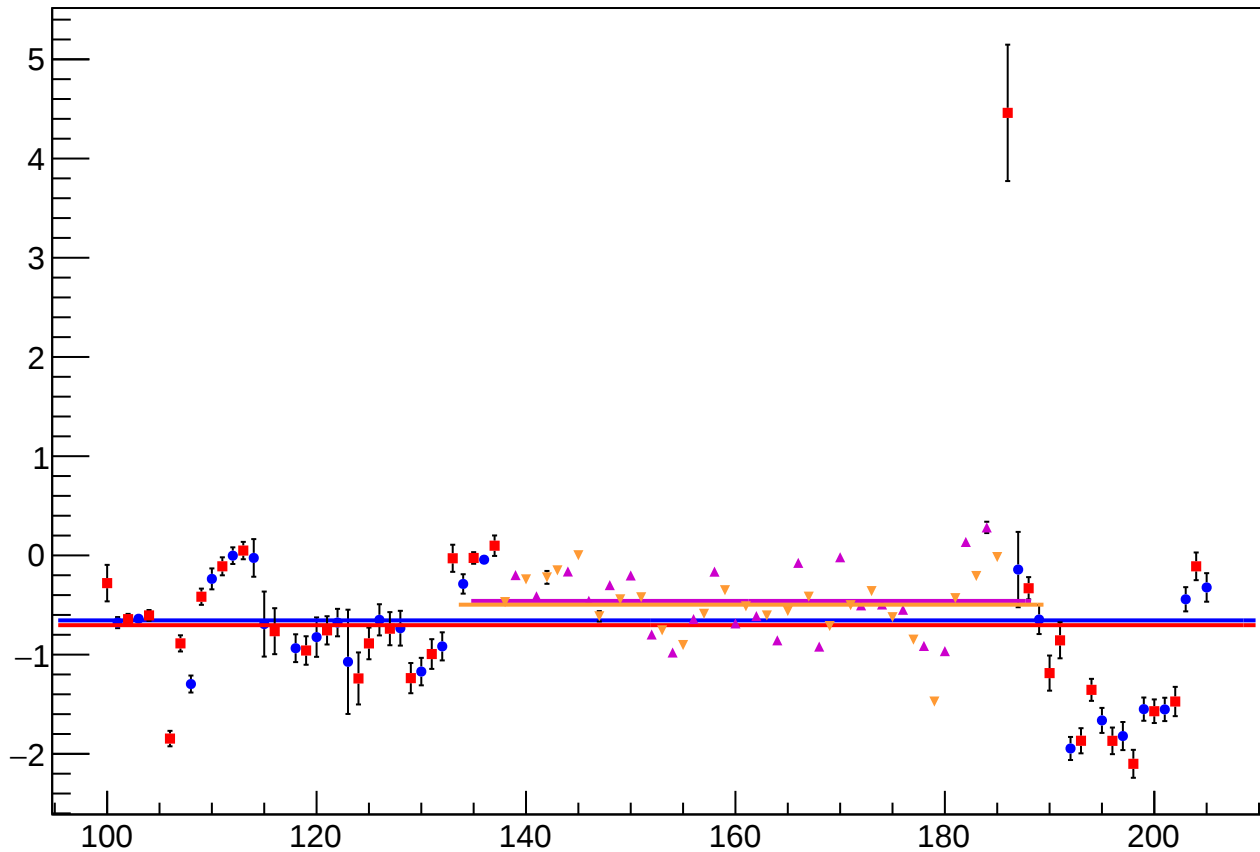
Right: 68.946 $\pm$ 0.288 χ^2 /NDF: 11241.4/55

In: 69.447 $\pm$ 0.157 χ^2 /NDF: 8443.8/48

Out: 70.213 $\pm$ 0.154 χ^2 /NDF: 10732.0/54

All: 69.837 $\pm$ 0.110 χ^2 /NDF: 19188.0/103

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.655 ± 0.020 χ^2/NDF : 732.7/25

Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24

Right Out: -0.703 ± 0.019 χ^2/NDF : 1070.4/29

Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47

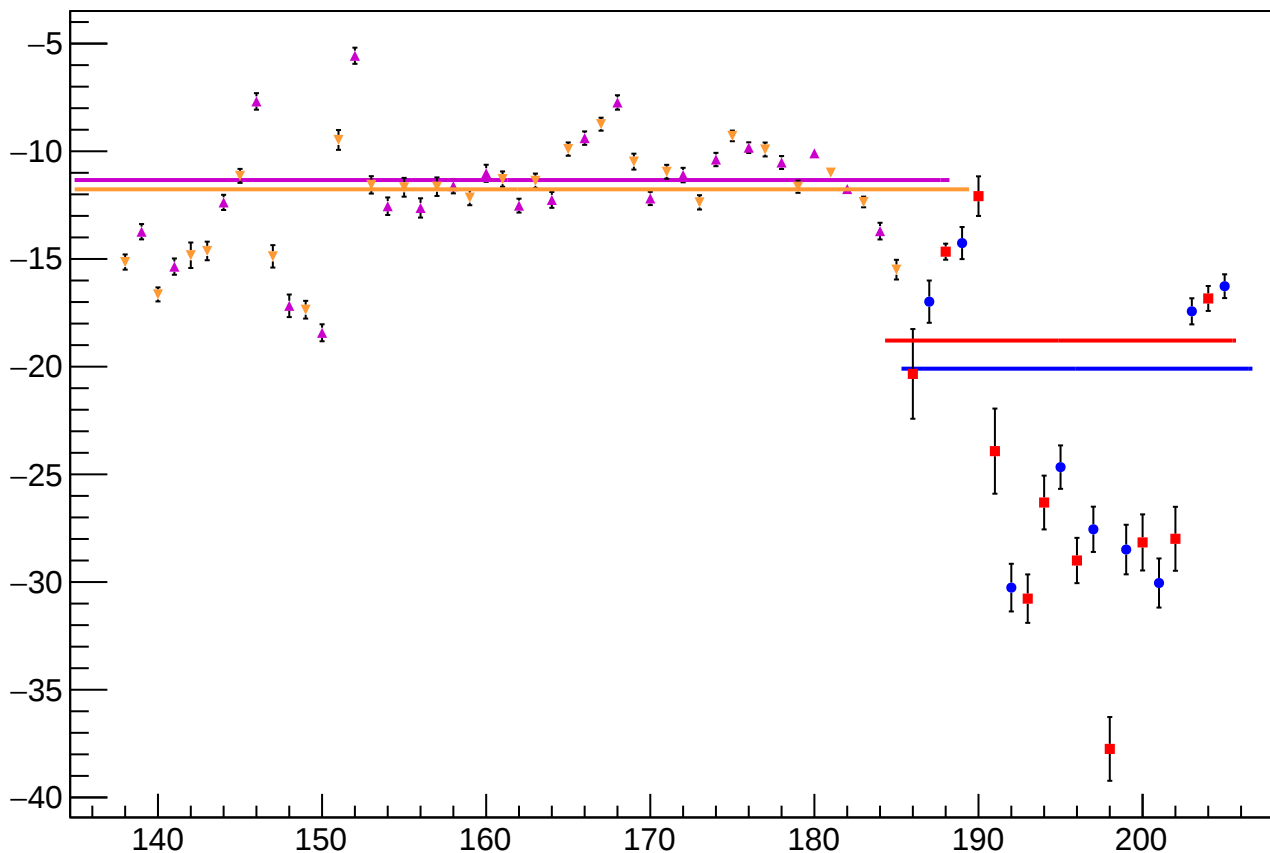
Right: -0.680 ± 0.014 χ^2/NDF : 1806.1/55

In: -0.484 ± 0.007 χ^2/NDF : 2774.8/48

Out: -0.525 ± 0.007 χ^2/NDF : 2620.4/54

All: -0.505 ± 0.005 χ^2/NDF : 5411.3/103

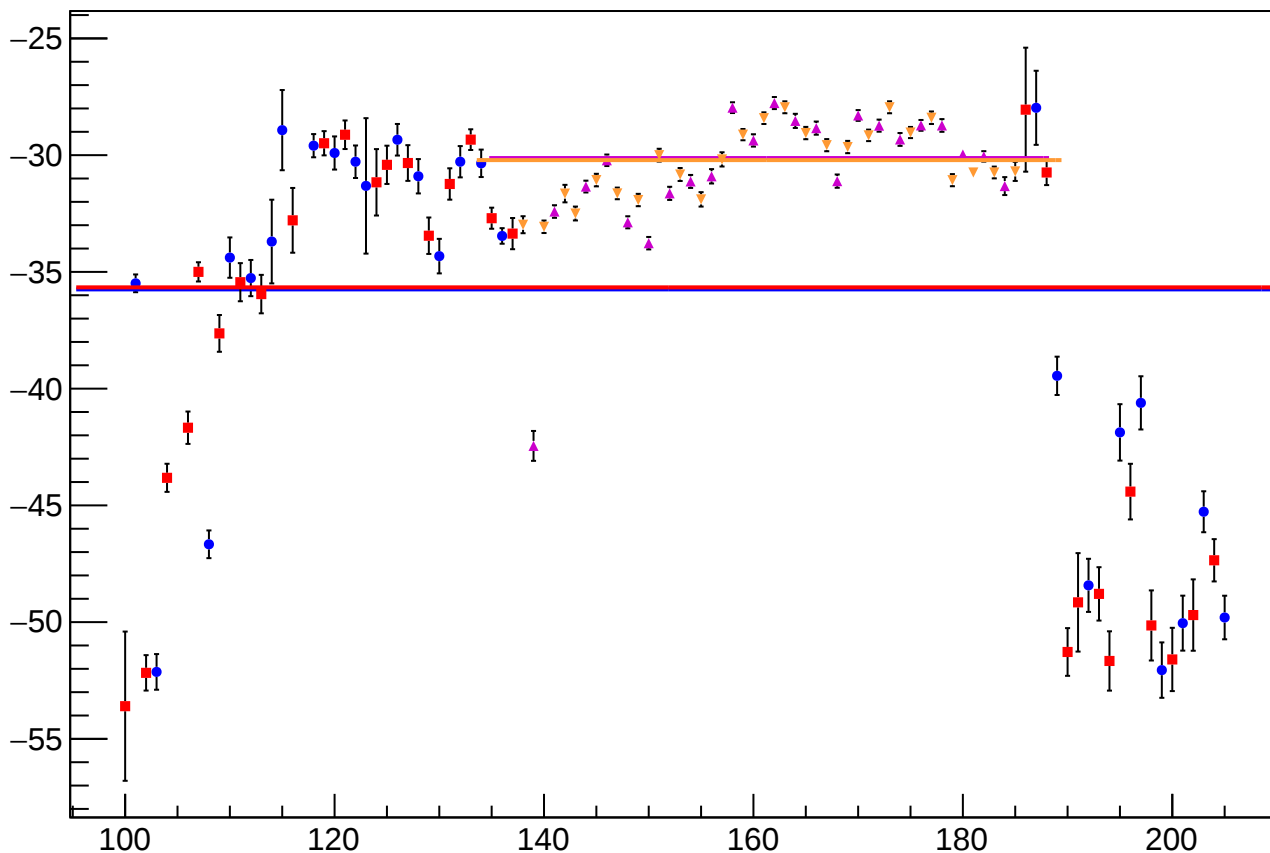
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -20.094 ± 0.277 $\chi^2/\text{NDF}: 423.3/8$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -18.788 ± 0.252 $\chi^2/\text{NDF}: 692.9/10$
 Left In: -11.336 ± 0.068 $\chi^2/\text{NDF}: 1269.3/22$

Left: -11.556 ± 0.048 $\chi^2/\text{NDF}: 2310.6/47$
 Right: -19.381 ± 0.186 $\chi^2/\text{NDF}: 1128.4/19$
 In: -11.835 ± 0.066 $\chi^2/\text{NDF}: 2637.9/31$
 Out: -12.225 ± 0.064 $\chi^2/\text{NDF}: 2437.3/35$
 All: -12.035 ± 0.046 $\chi^2/\text{NDF}: 5093.0/67$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -35.749 ± 0.140 χ^2/NDF : 2332.6/25

Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24

Right Out: -35.662 ± 0.137 χ^2/NDF : 2634.9/29

Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47

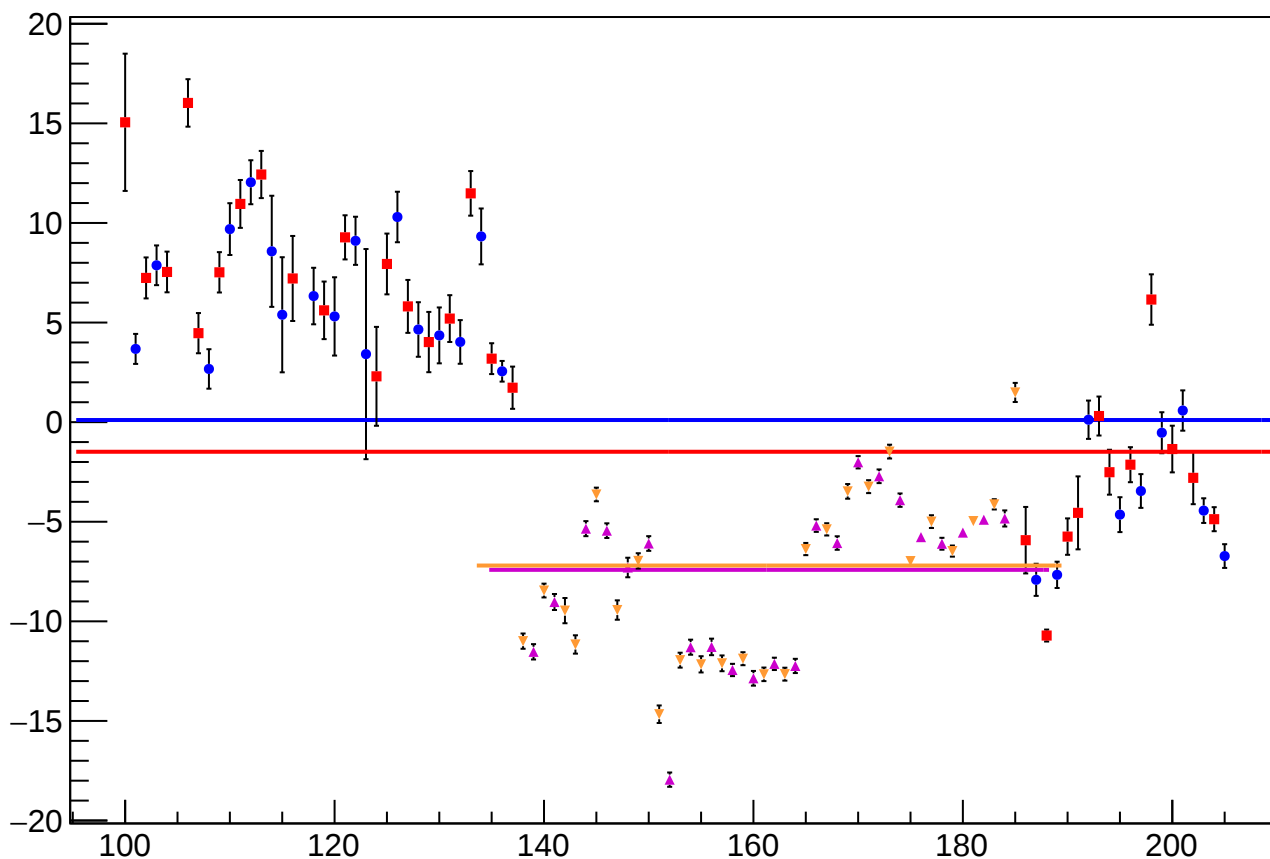
Right: -35.705 ± 0.098 χ^2/NDF : 4967.7/55

In: -30.892 ± 0.052 χ^2/NDF : 4960.5/48

Out: -30.942 ± 0.050 χ^2/NDF : 4740.7/54

All: -30.918 ± 0.036 χ^2/NDF : 9701.7/103

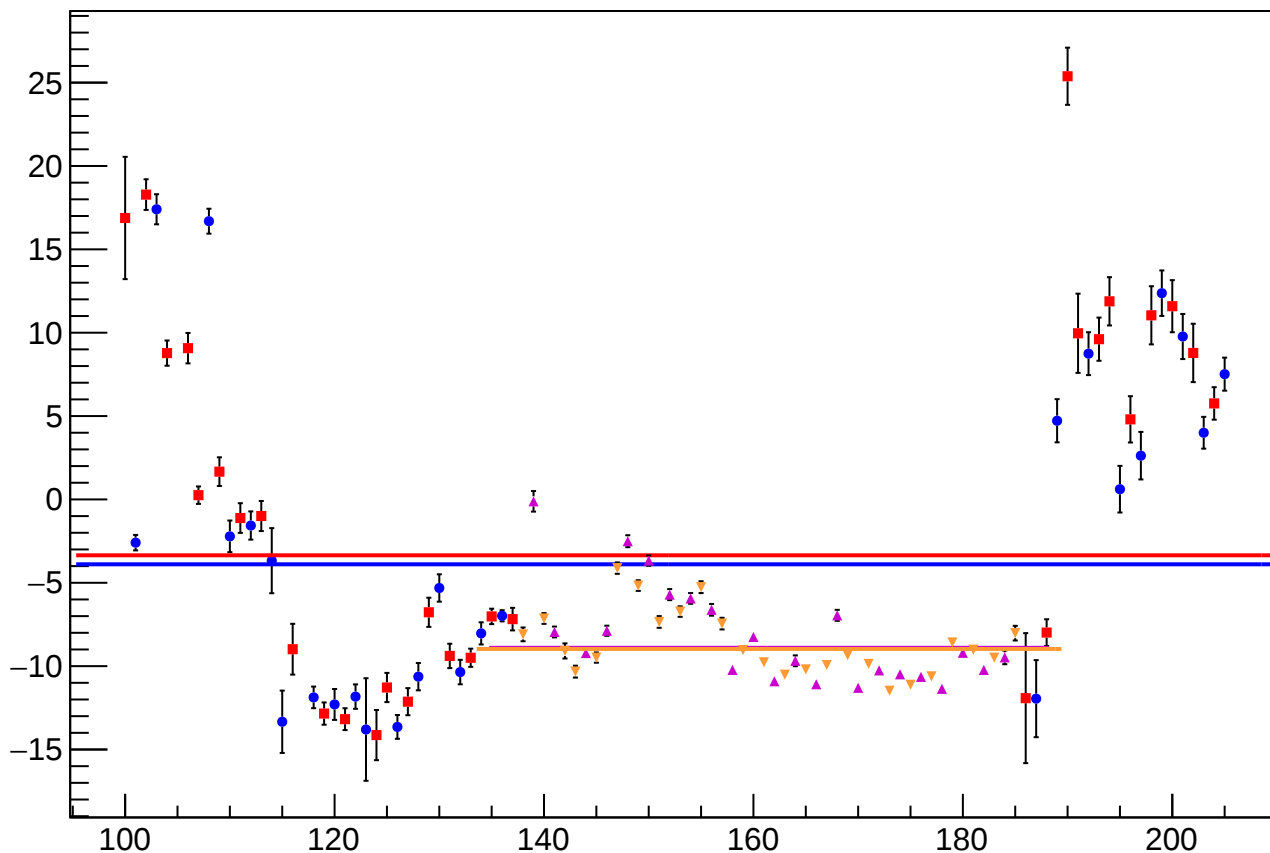
reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.107 ± 0.187 $\chi^2/\text{NDF}: 989.9/25$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -1.486 ± 0.172 $\chi^2/\text{NDF}: 2229.0/29$
 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: -0.758 ± 0.126 $\chi^2/\text{NDF}: 3258.3/55$
 In: -6.539 ± 0.064 $\chi^2/\text{NDF}: 5543.3/48$
 Out: -6.445 ± 0.062 $\chi^2/\text{NDF}: 6228.9/54$
 All: -6.491 ± 0.045 $\chi^2/\text{NDF}: 11773.2/103$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.892 ± 0.159 $\chi^2/\text{NDF}: 2809.3/25$

Left Out: -8.970 ± 0.060 $\chi^2/\text{NDF}: 878.8/24$

Right Out: -3.351 ± 0.160 $\chi^2/\text{NDF}: 3007.5/29$

Left In: -8.900 ± 0.062 $\chi^2/\text{NDF}: 1533.9/22$

Left: -8.936 ± 0.043 $\chi^2/\text{NDF}: 2413.4/47$

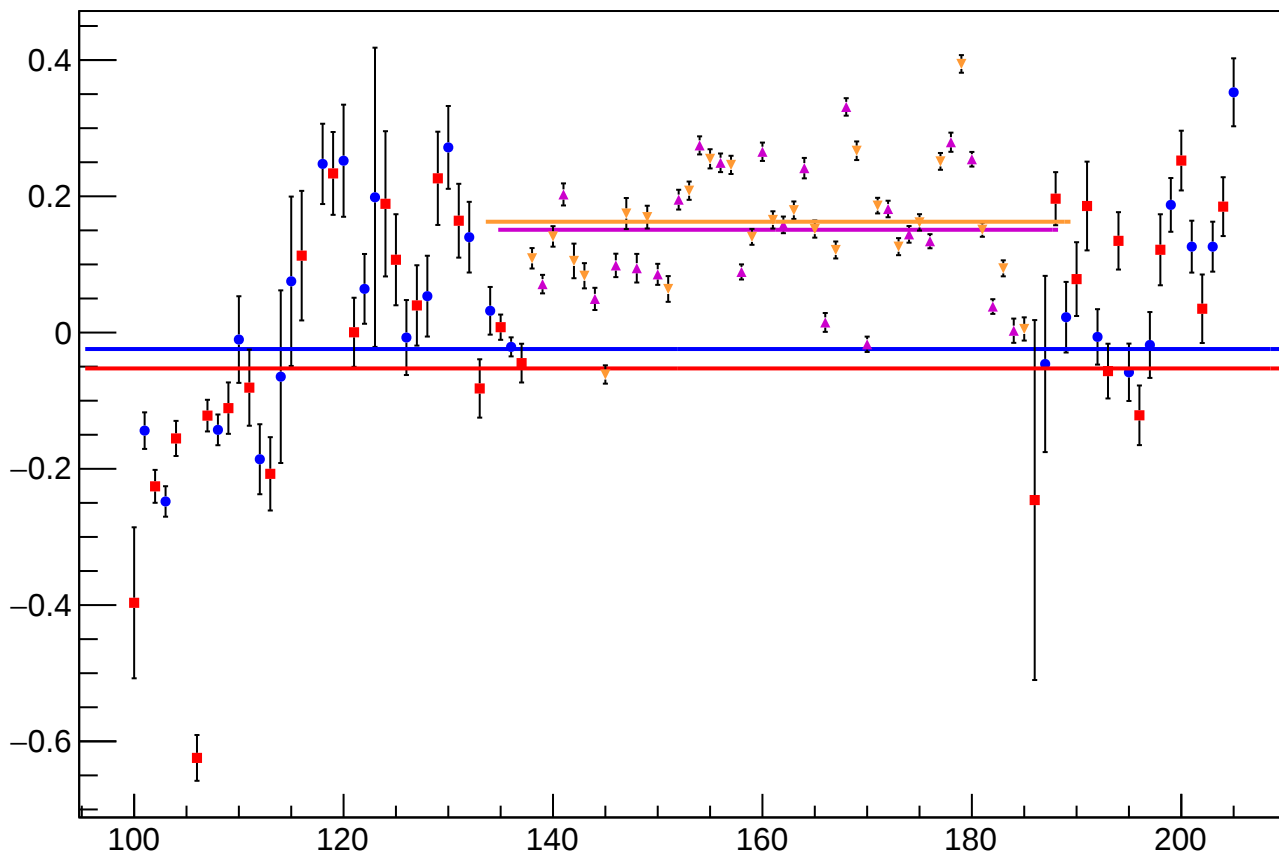
Right: -3.623 ± 0.113 $\chi^2/\text{NDF}: 5822.6/55$

In: -8.243 ± 0.057 $\chi^2/\text{NDF}: 5209.9/48$

Out: -8.272 ± 0.056 $\chi^2/\text{NDF}: 4970.3/54$

All: -8.257 ± 0.040 $\chi^2/\text{NDF}: 10180.3/103$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.024 ± 0.007 χ^2/NDF : 353.0/25

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.053 ± 0.007 χ^2/NDF : 645.3/29

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

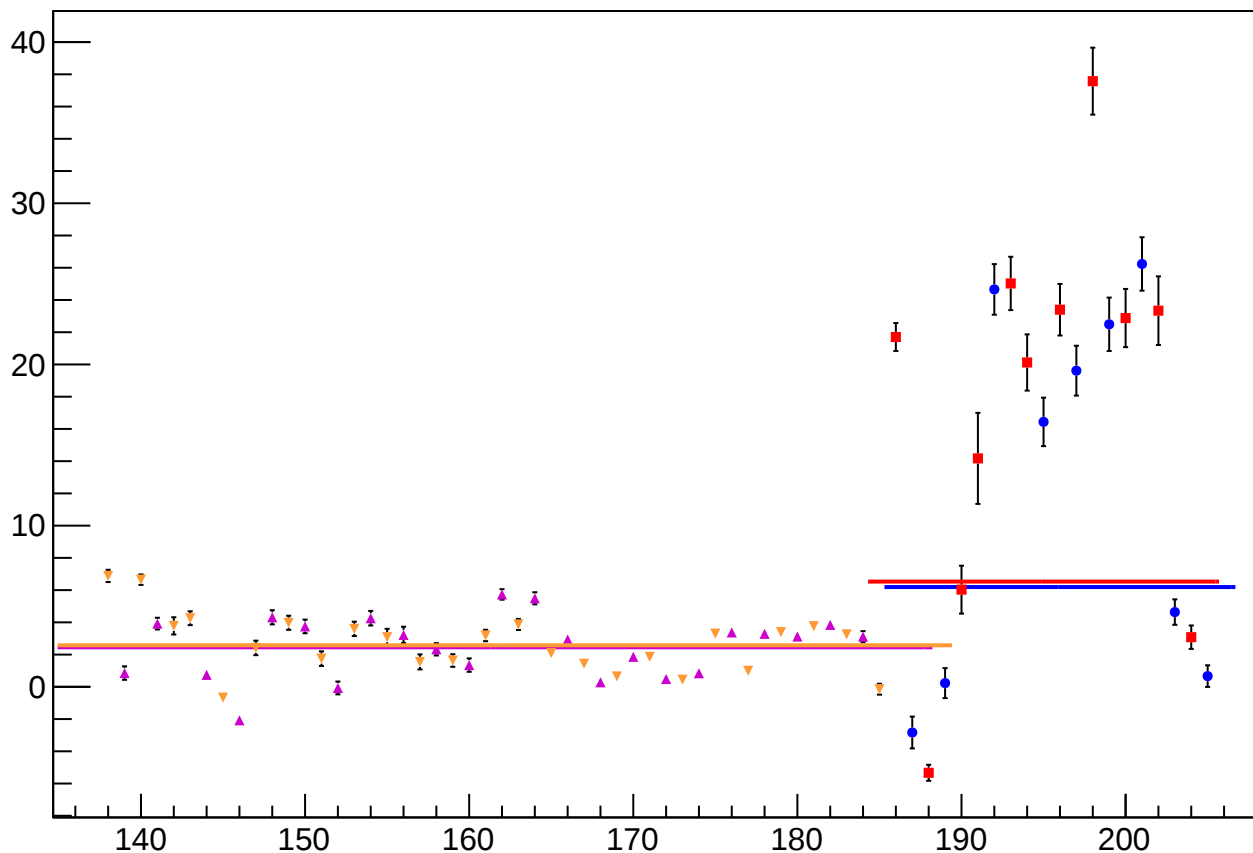
Right: -0.038 ± 0.005 χ^2/NDF : 1005.8/55

In: 0.129 ± 0.003 χ^2/NDF : 2139.7/48

Out: 0.136 ± 0.003 χ^2/NDF : 2428.2/54

All: 0.133 ± 0.002 χ^2/NDF : 4571.9/103

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected

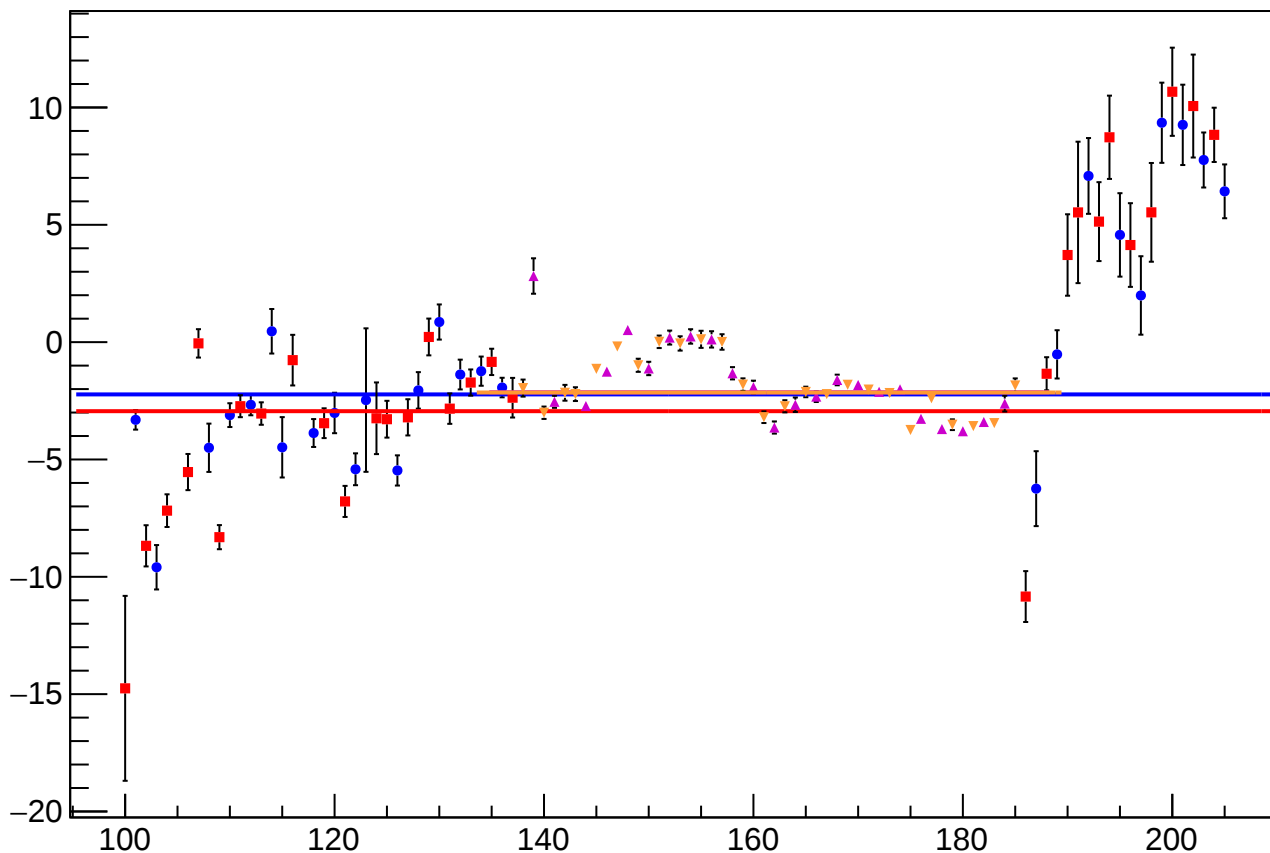


Right In: 6.190 $\pm$ 0.354 χ^2 /NDF: 699.0/8
 Left Out: 2.577 $\pm$ 0.058 χ^2 /NDF:867.5/24
 Right Out: 6.529 $\pm$ 0.321 χ^2 /NDF: 1572.5/10
 Left In: 2.452 $\pm$ 0.059 χ^2 /NDF:871.3/22

Left: 2.516 $\pm$ 0.042 χ^2 /NDF: 1741.0/47
 Right: 6.376 $\pm$ 0.238 χ^2 /NDF: 2271.9/19
 In: 2.555 $\pm$ 0.059 χ^2 /NDF:1678.9/31
 Out: 2.703 $\pm$ 0.057 χ^2 /NDF:2586.7/35

All: 2.630 $\pm$ 0.041 χ^2 /NDF: 4268.8/67

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.227 ± 0.147 $\chi^2/\text{NDF}: 448.9/25$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -2.942 ± 0.145 $\chi^2/\text{NDF}: 677.1/29$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

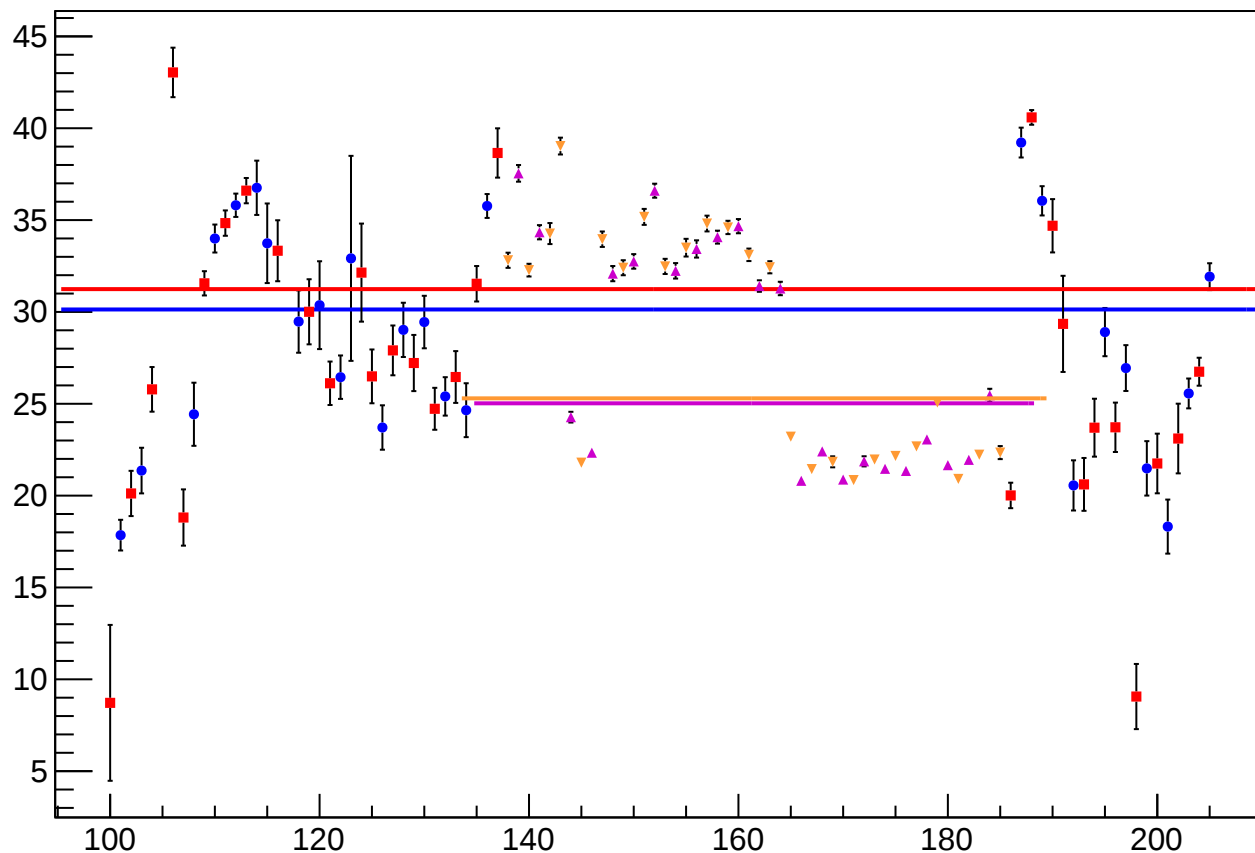
Right: -2.590 ± 0.103 $\chi^2/\text{NDF}: 1138.0/55$

In: -2.145 ± 0.046 $\chi^2/\text{NDF}: 1140.5/48$

Out: -2.223 ± 0.045 $\chi^2/\text{NDF}: 1277.7/54$

All: -2.185 ± 0.032 $\chi^2/\text{NDF}: 2419.6/103$

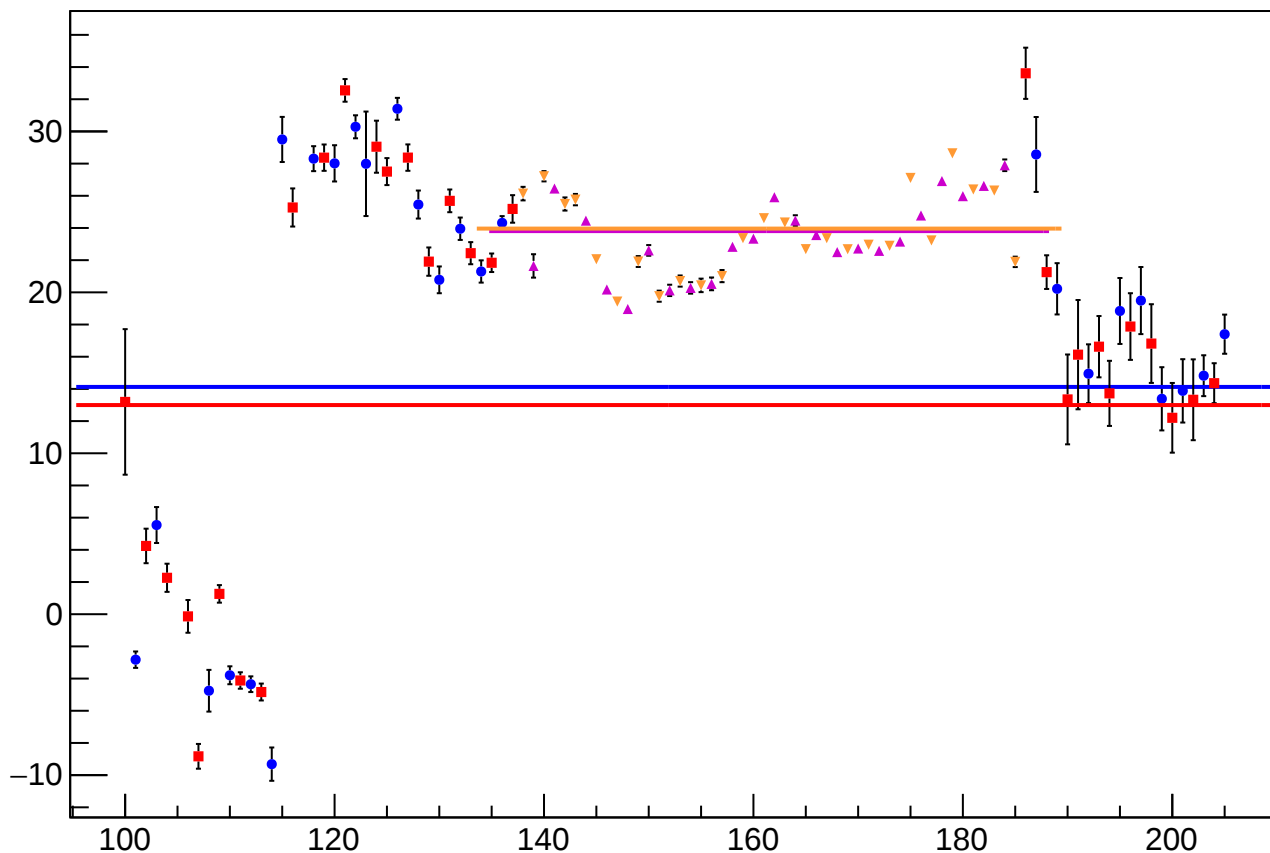
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.134 $\pm$ 0.208 χ^2 /NDF: 927.5/25
 Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24
 Right Out: 31.242 $\pm$ 0.190 χ^2 /NDF: 1646.6/29
 Left In: 25.025 $\pm$ 0.060 χ^2 /NDF:7610.5/22

Left: 25.162 $\pm$ 0.042 χ^2 /NDF: 15893.3/47
 Right: 30.739 $\pm$ 0.140 χ^2 /NDF: 2589.6/55
 In: 25.413 $\pm$ 0.057 χ^2 /NDF:9095.2/48
 Out: 25.818 $\pm$ 0.056 χ^2 /NDF:10816.4/54
 All: 25.619 $\pm$ 0.040 χ^2 /NDF: 19937.2/103

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.123+/-0.165 χ^2/NDF : 7350.8/25

Left Out: 23.962+/-0.053 χ^2/NDF :1922.4/24

Right Out: 12.996+/-0.166 χ^2/NDF : 7208.7/29

Left In: 23.805+/-0.054 χ^2/NDF :1761.3/22

Left: 23.885+/-0.038 χ^2/NDF : 3688.0/47

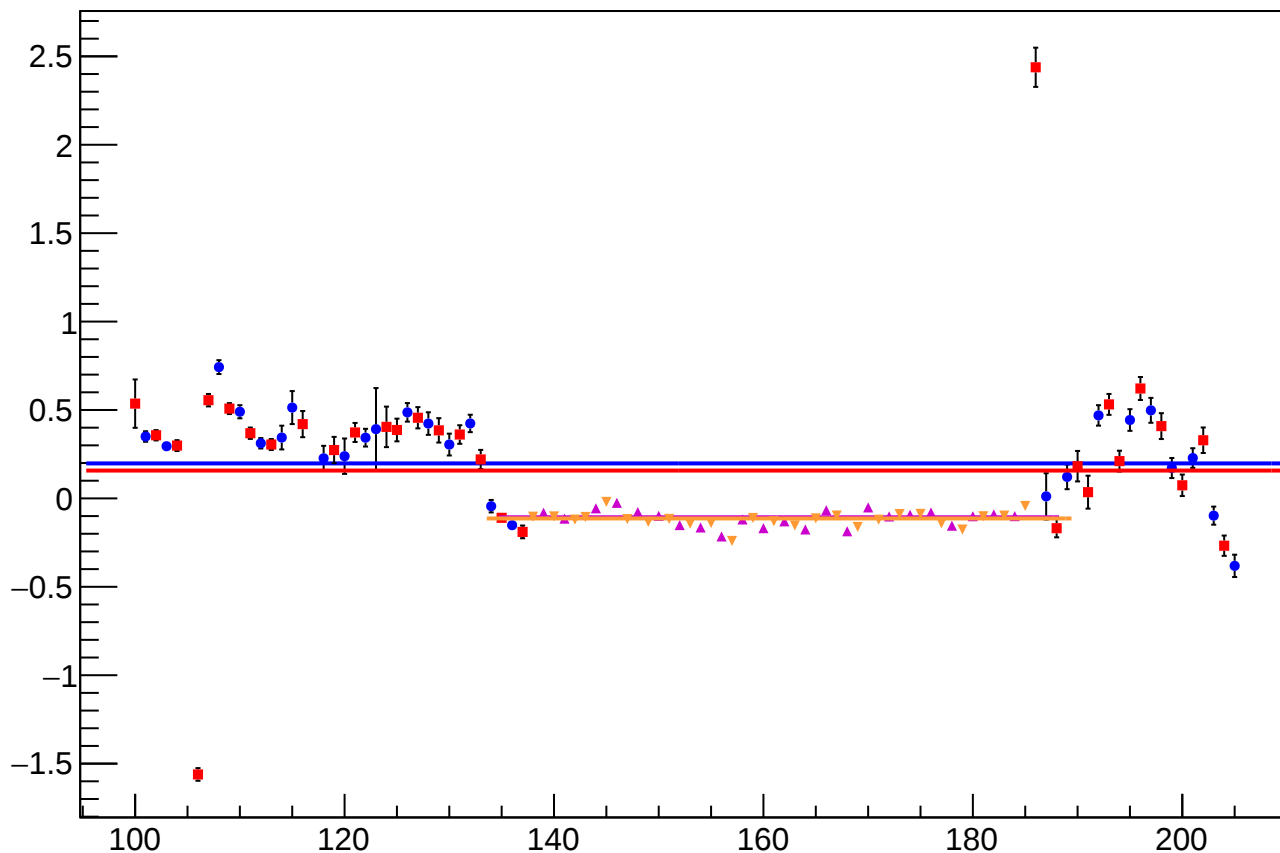
Right: 13.560+/-0.117 χ^2/NDF : 14582.7/55

In: 22.871+/-0.051 χ^2/NDF :12209.1/48

Out: 22.937+/-0.051 χ^2/NDF :13109.5/54

All: 22.904+/-0.036 χ^2/NDF : 25319.4/103

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.198 ± 0.009 $\chi^2/\text{NDF}: 1024.6/25$

Left Out: -0.113 ± 0.002 $\chi^2/\text{NDF}: 291.0/24$

Right Out: 0.157 ± 0.008 $\chi^2/\text{NDF}: 3647.8/29$

Left In: -0.107 ± 0.002 $\chi^2/\text{NDF}: 321.8/22$

Left: -0.110 ± 0.002 $\chi^2/\text{NDF}: 616.6/47$

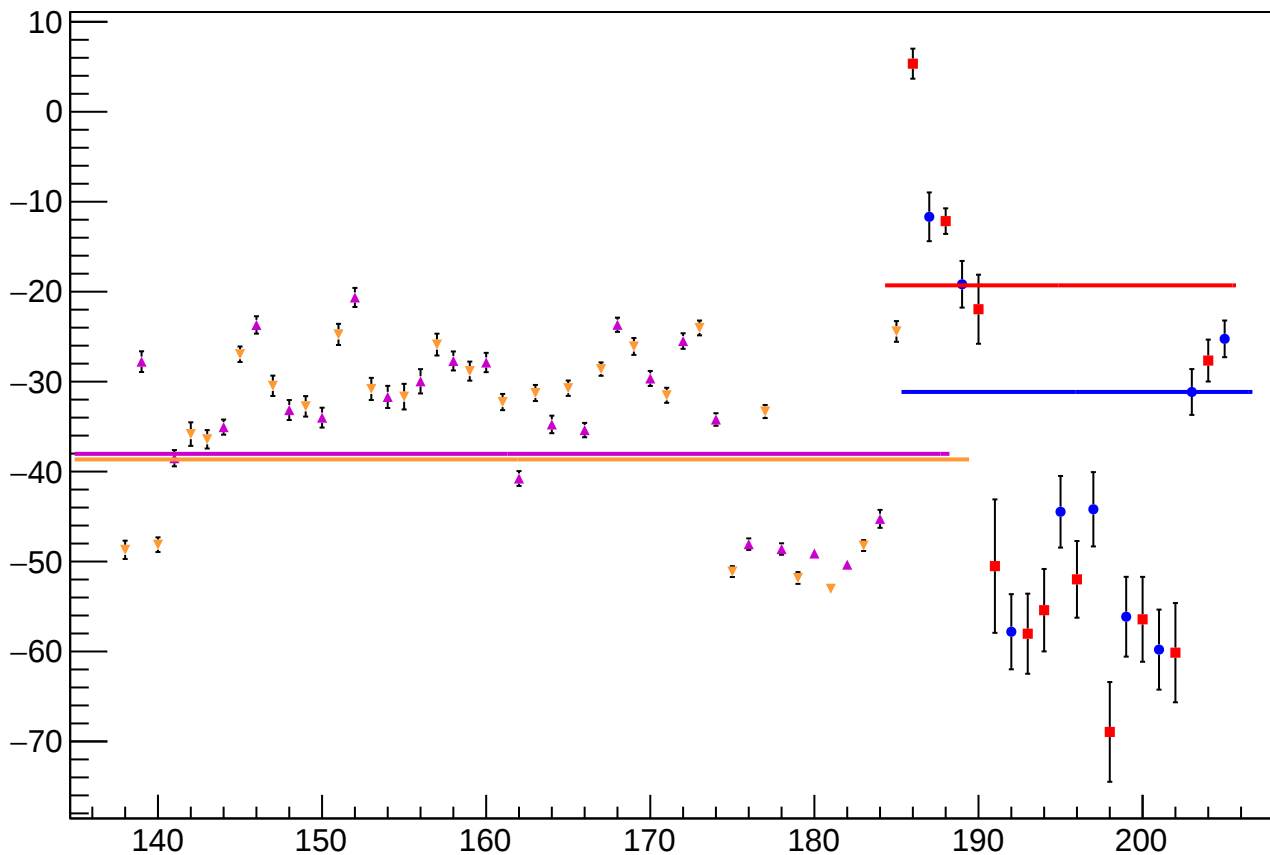
Right: 0.177 ± 0.006 $\chi^2/\text{NDF}: 4683.8/55$

In: -0.083 ± 0.002 $\chi^2/\text{NDF}: 2516.4/48$

Out: -0.093 ± 0.002 $\chi^2/\text{NDF}: 4903.3/54$

All: -0.088 ± 0.002 $\chi^2/\text{NDF}: 7427.4/103$

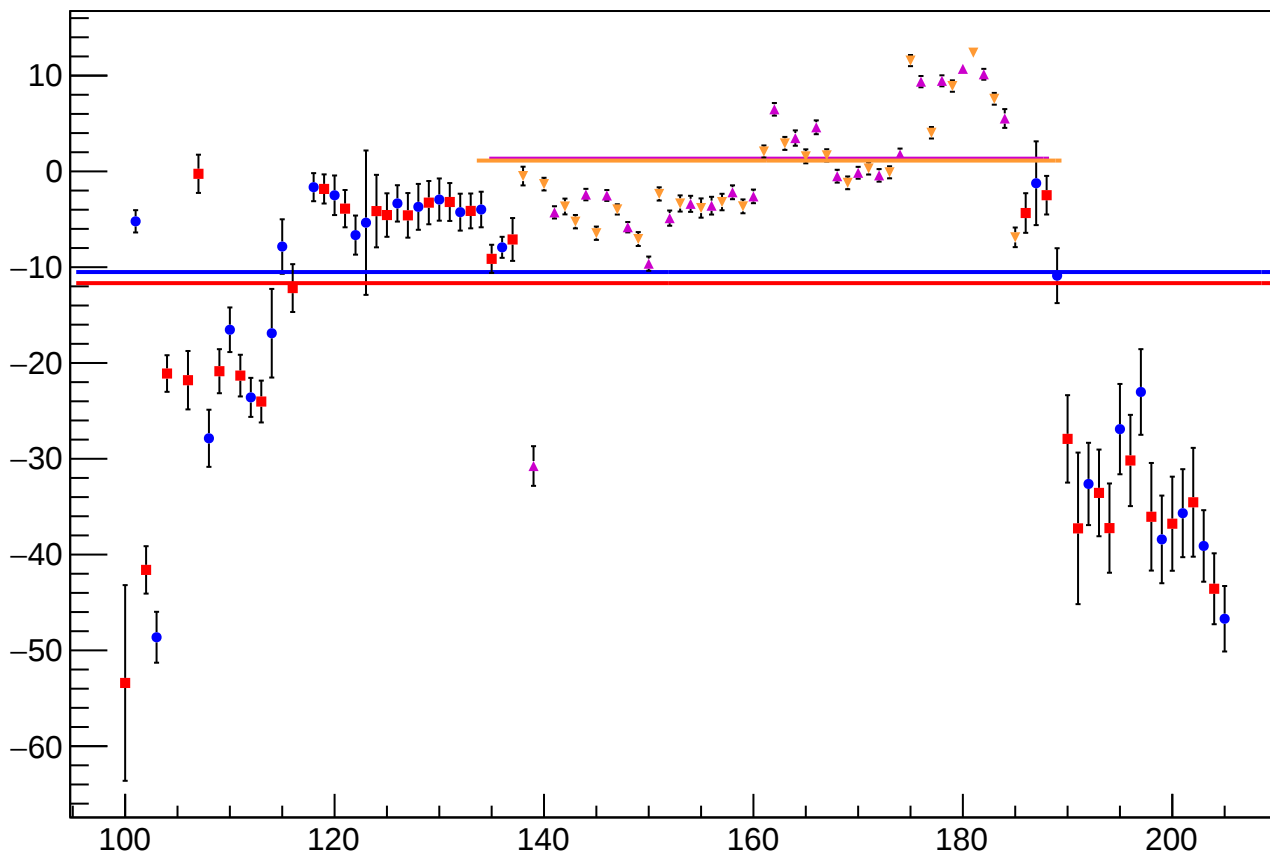
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.146 ± 1.021 χ^2/NDF : 216.3/8
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -19.298 ± 0.849 χ^2/NDF : 667.7/10
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -24.143 ± 0.653 χ^2/NDF : 963.7/19
 In: -37.835 ± 0.171 χ^2/NDF : 3352.4/31
 Out: -37.911 ± 0.166 χ^2/NDF : 5244.7/35
 All: -37.874 ± 0.119 χ^2/NDF : 8597.2/67

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -10.507 ± 0.440 χ^2/NDF : 718.4/25

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -11.664 ± 0.447 χ^2/NDF : 696.8/29

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

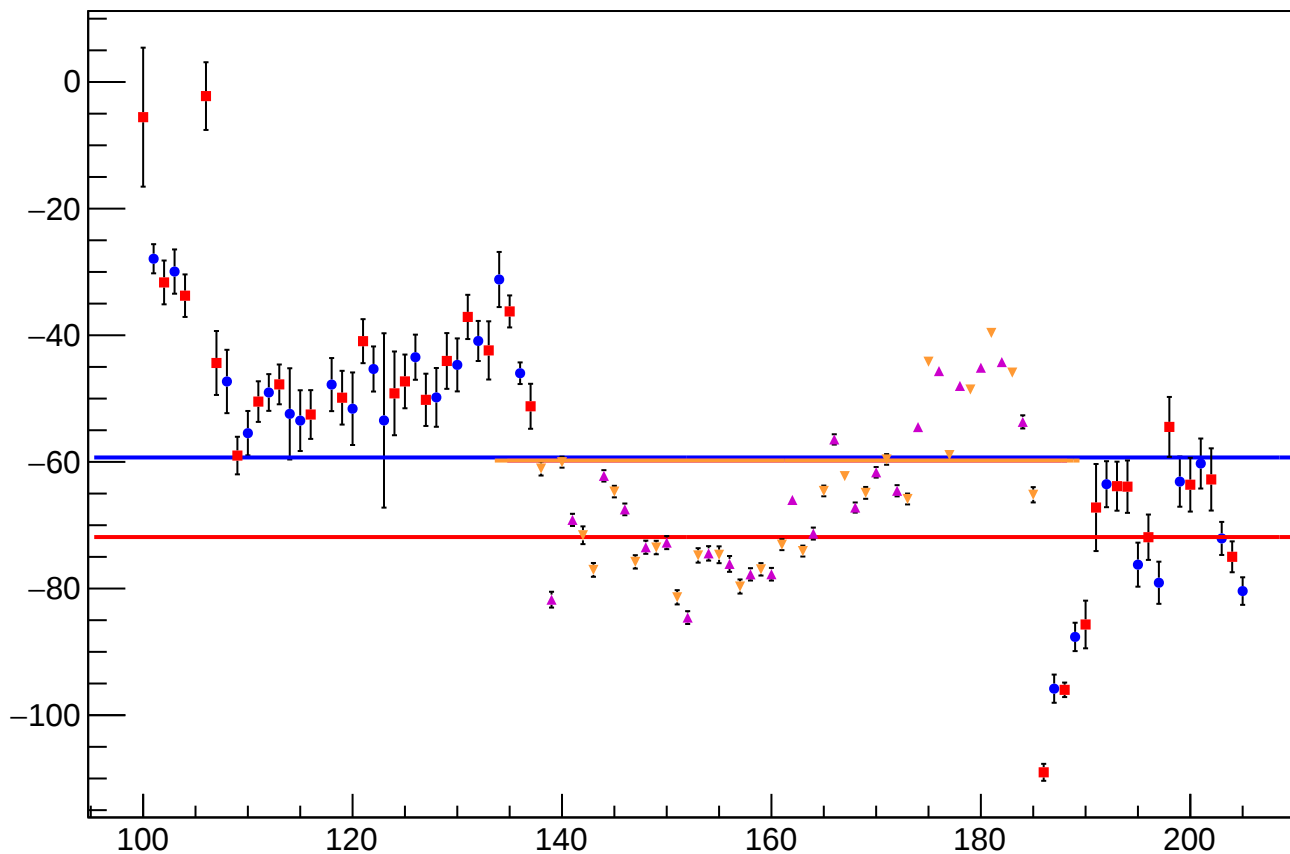
Right: -11.075 ± 0.314 χ^2/NDF : 1418.6/55

In: 0.243 ± 0.133 χ^2/NDF : 3424.1/48

Out: 0.048 ± 0.130 χ^2/NDF : 3244.9/54

All: 0.143 ± 0.093 χ^2/NDF : 6670.1/103

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.299 ± 0.625 χ^2/NDF : 1083.7/25

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -71.869 ± 0.555 χ^2/NDF : 2497.3/29

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

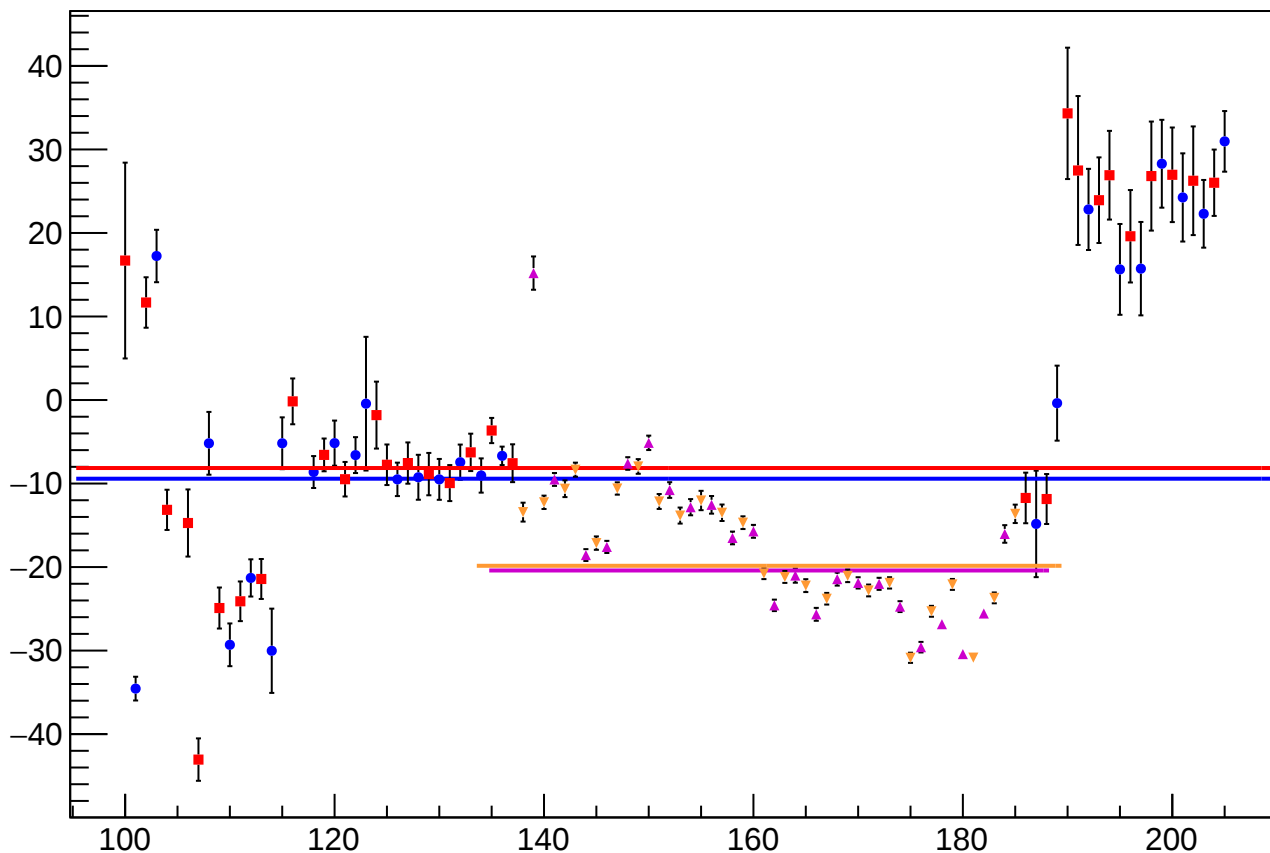
Right: -66.334 ± 0.415 χ^2/NDF : 3807.1/55

In: -59.766 ± 0.167 χ^2/NDF : 6301.9/48

Out: -60.828 ± 0.163 χ^2/NDF : 8768.6/54

All: -60.311 ± 0.117 χ^2/NDF : 15091.2/103

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -9.422 ± 0.498 χ^2/NDF : 873.5/25

Left Out: -19.847 ± 0.153 χ^2/NDF : 1931.3/24

Right Out: -8.142 ± 0.517 χ^2/NDF : 713.6/29

Left In: -20.410 ± 0.157 χ^2/NDF : 2302.0/22

Left: -20.122 ± 0.109 χ^2/NDF : 4239.8/47

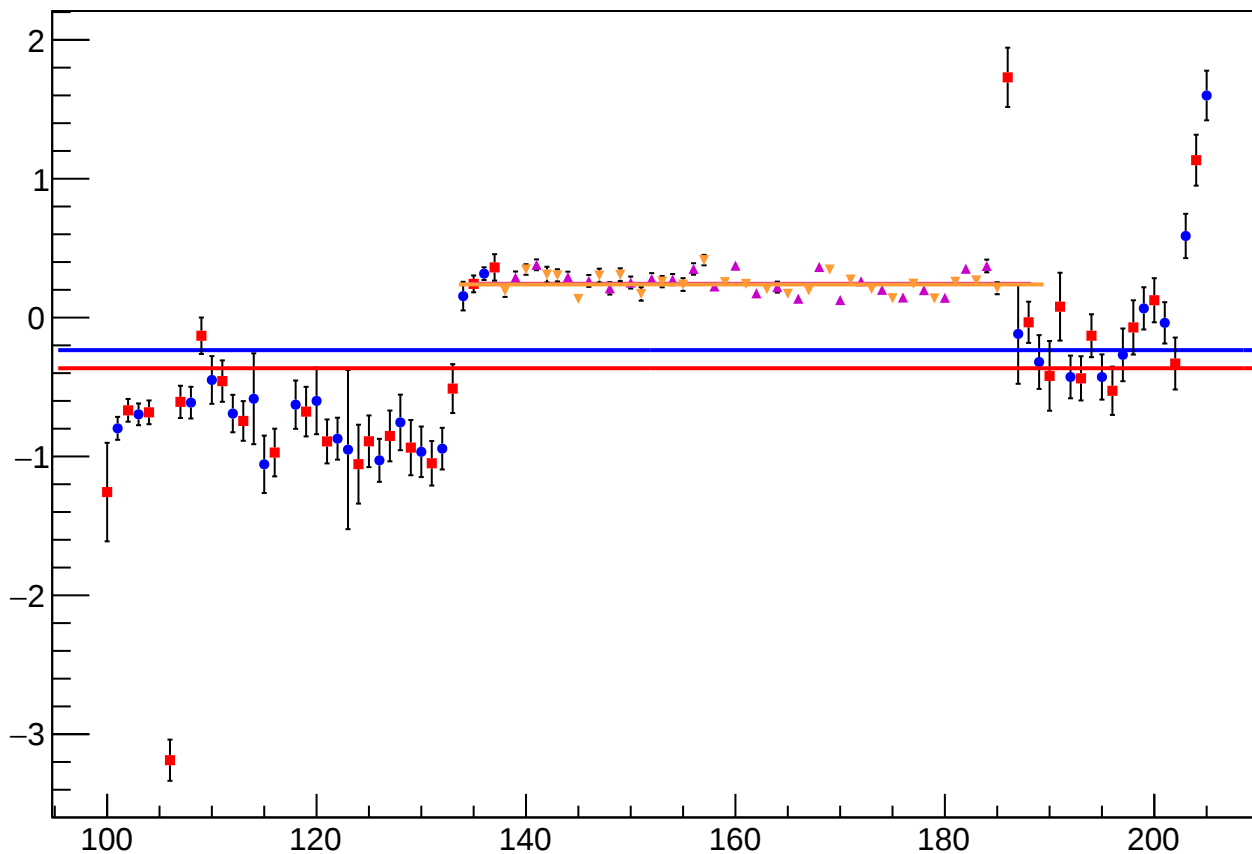
Right: -8.806 ± 0.358 χ^2/NDF : 1590.3/55

In: -19.420 ± 0.149 χ^2/NDF : 3618.9/48

Out: -18.906 ± 0.146 χ^2/NDF : 3117.1/54

All: -19.158 ± 0.105 χ^2/NDF : 6742.0/103

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.235 ± 0.025 χ^2/NDF : 519.2/25

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.365 ± 0.025 χ^2/NDF : 830.4/29

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

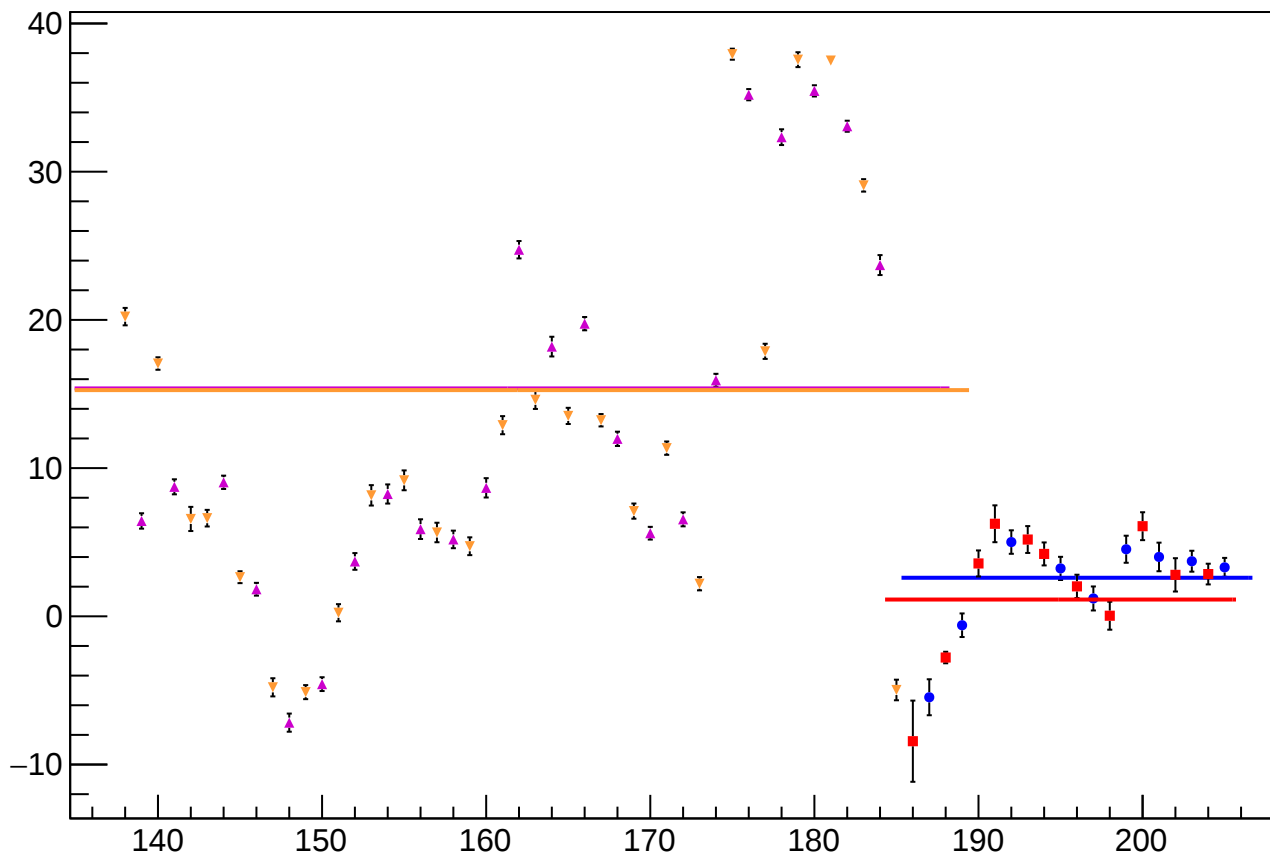
Right: -0.298 ± 0.018 χ^2/NDF : 1363.1/55

In: 0.207 ± 0.007 χ^2/NDF : 997.9/48

Out: 0.196 ± 0.007 χ^2/NDF : 1450.8/54

All: 0.201 ± 0.005 χ^2/NDF : 2450.0/103

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.602 ± 0.270 χ^2/NDF : 83.5/8

Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24

Right Out: 1.133 ± 0.234 χ^2/NDF : 212.2/10

Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47

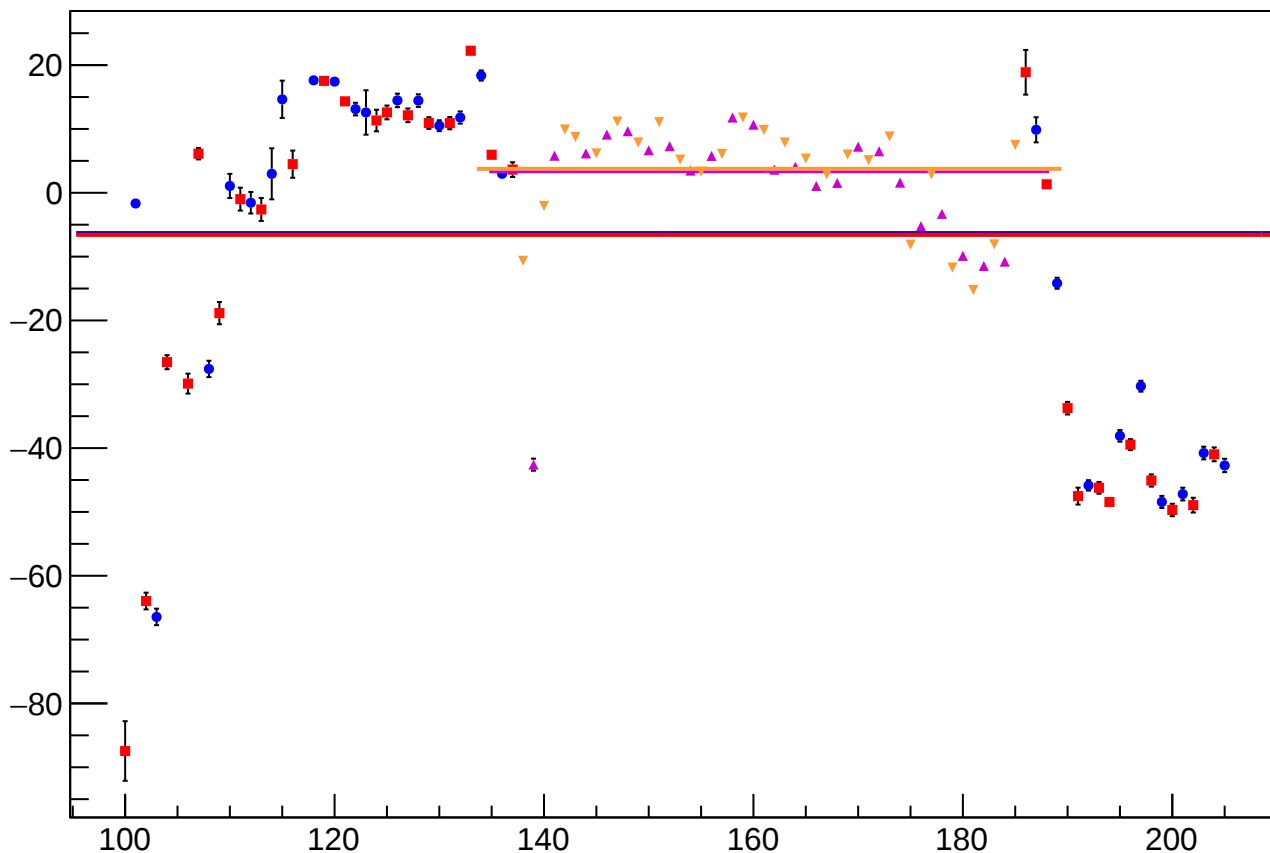
Right: 1.764 ± 0.177 χ^2/NDF : 312.6/19

In: 13.756 ± 0.096 χ^2/NDF : 18313.9/31

Out: 13.061 ± 0.092 χ^2/NDF : 22468.7/35

All: 13.394 ± 0.067 χ^2/NDF : 40809.8/67

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.311 ± 0.180 χ^2/NDF : 20080.6/25

Left Out: 3.746 ± 0.079 χ^2/NDF : 9247.4/24

Right Out: -6.601 ± 0.170 χ^2/NDF : 25731.2/29

Left In: 3.365 ± 0.081 χ^2/NDF : 8527.0/22

Left: 3.561 ± 0.057 χ^2/NDF : 17785.7/47

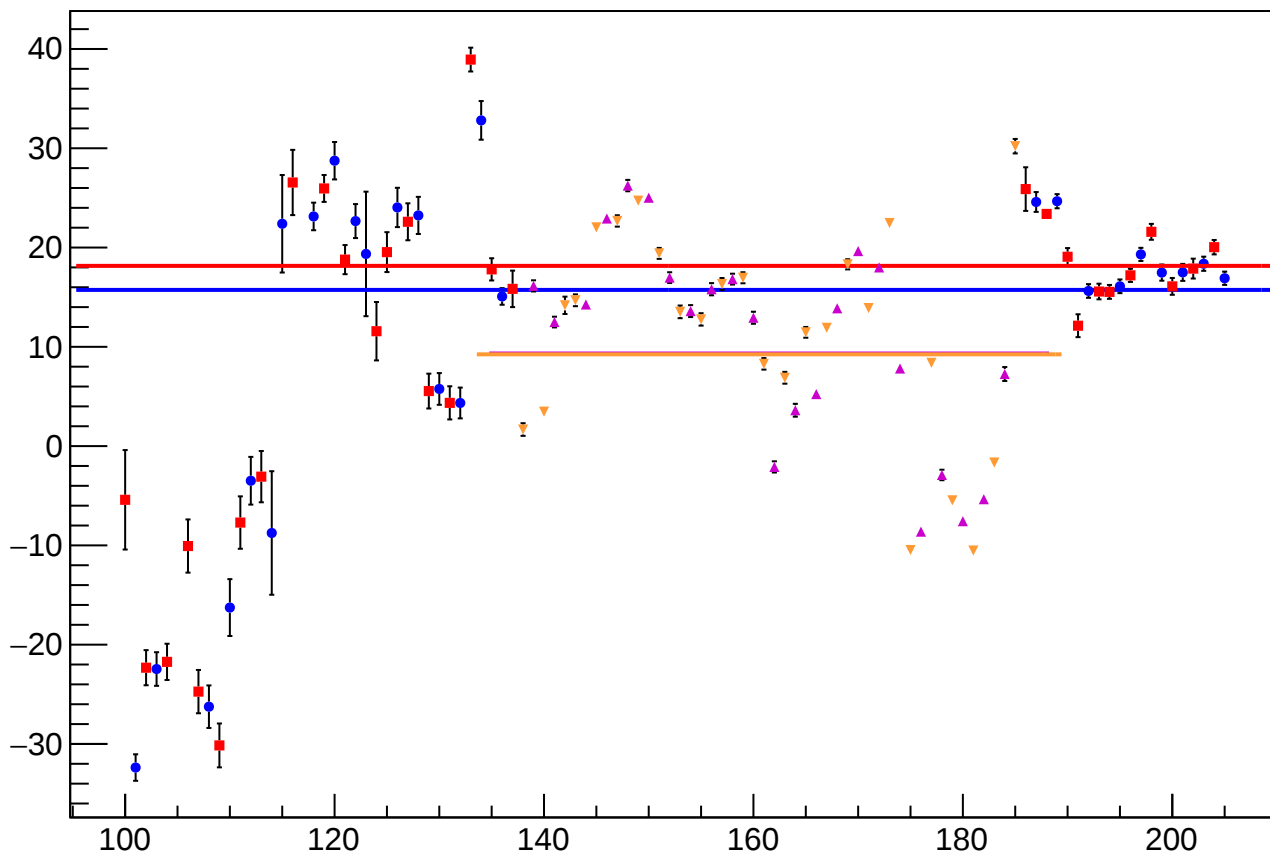
Right: -6.465 ± 0.124 χ^2/NDF : 45813.2/55

In: 1.733 ± 0.074 χ^2/NDF : 31000.6/48

Out: 1.920 ± 0.071 χ^2/NDF : 38025.6/54

All: 1.830 ± 0.051 χ^2/NDF : 69029.5/103

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.734 $\pm$ 0.012 χ^2 /NDF: 2985.1/25

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 18.155 $\pm$ 0.183 χ^2 /NDF: 3009.2/29

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

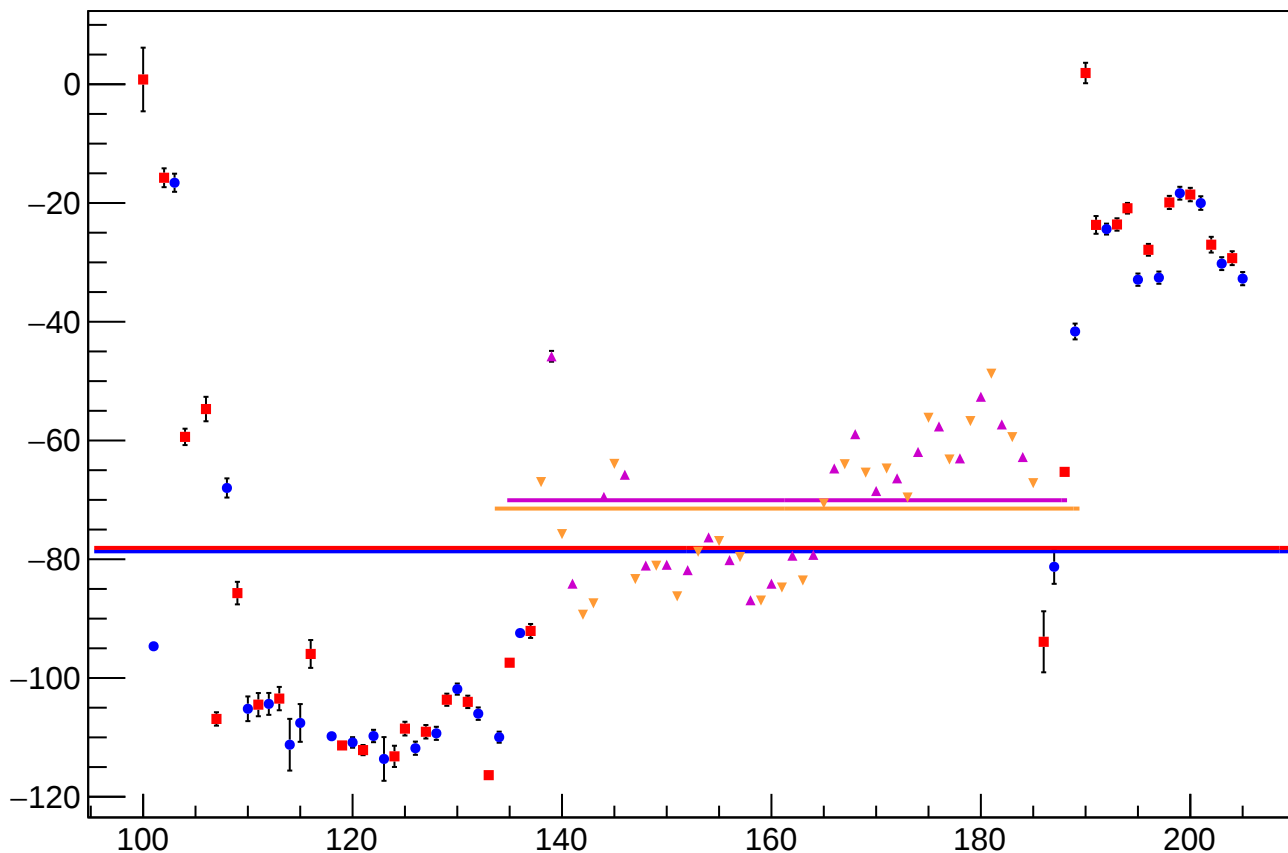
Right: 17.121 $\pm$ 0.139 χ^2 /NDF: 6068.9/55

In: 10.541 $\pm$ 0.092 χ^2 /NDF:15692.0/48

Out: 11.317 $\pm$ 0.088 χ^2 /NDF:18458.9/54

All: 10.946 $\pm$ 0.064 χ^2 /NDF: 34187.8/103

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -78.666 $\pm$ 0.209 χ^2 /NDF: 29629.0/25

Left Out: -71.465 $\pm$ 0.089 χ^2 /NDF:16409.7/24

Right Out: -78.086 $\pm$ 0.201 χ^2 /NDF: 37657.5/29

Left In: -70.061 $\pm$ 0.092 χ^2 /NDF:13058.5/22

Left: -70.782 $\pm$ 0.064 χ^2 /NDF: 29588.5/47

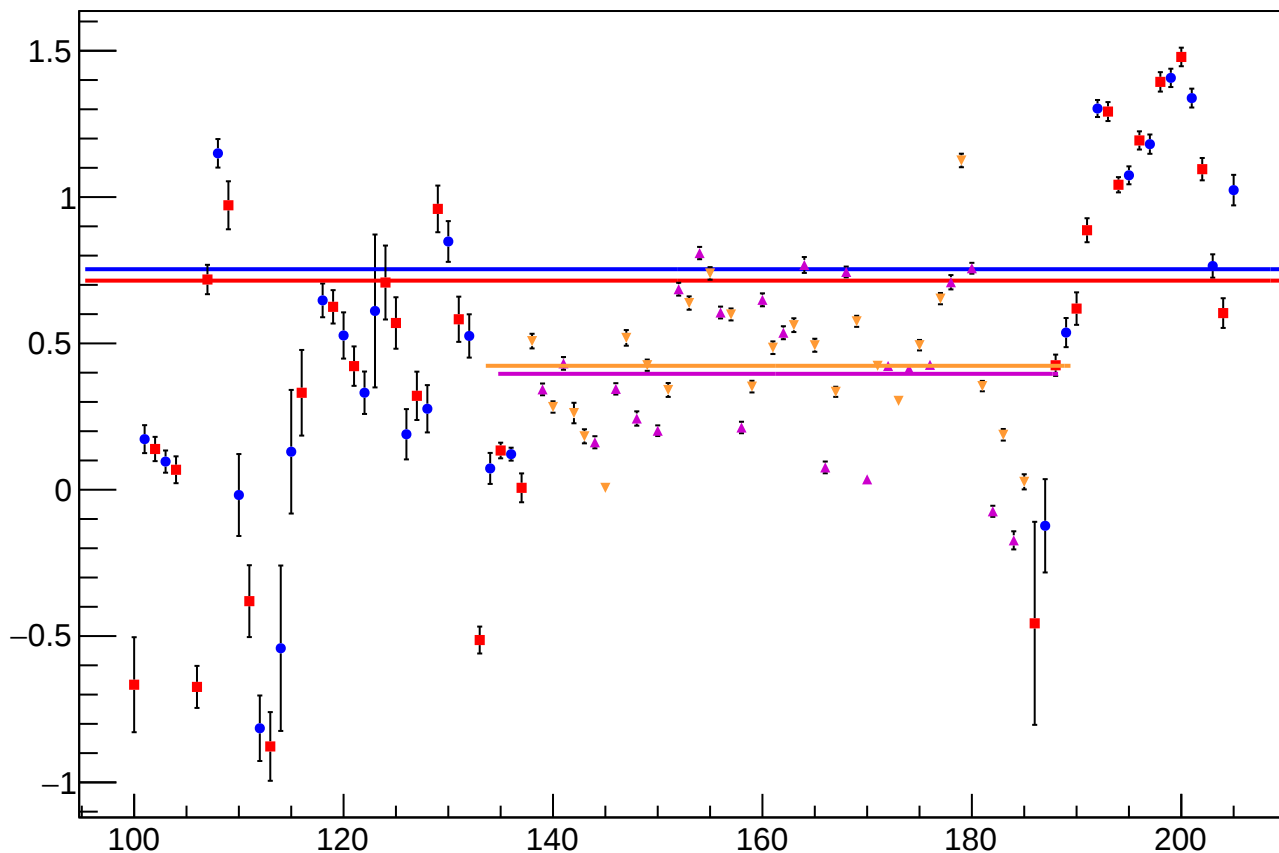
Right: -78.364 $\pm$ 0.145 χ^2 /NDF: 67290.6/55

In: -71.450 $\pm$ 0.084 χ^2 /NDF:44108.6/48

Out: -72.558 $\pm$ 0.082 χ^2 /NDF:54974.7/54

All: -72.020 $\pm$ 0.059 χ^2 /NDF: 99172.8/103

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.754 $\pm$ 0.009 χ^2 /NDF: 3362.9/25

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.715 $\pm$ 0.009 χ^2 /NDF: 4478.6/29

Left In: 0.396 $\pm$ 0.004 χ^2 /NDF:4051.5/22

Left: 0.410 $\pm$ 0.003 χ^2 /NDF: 6958.5/47

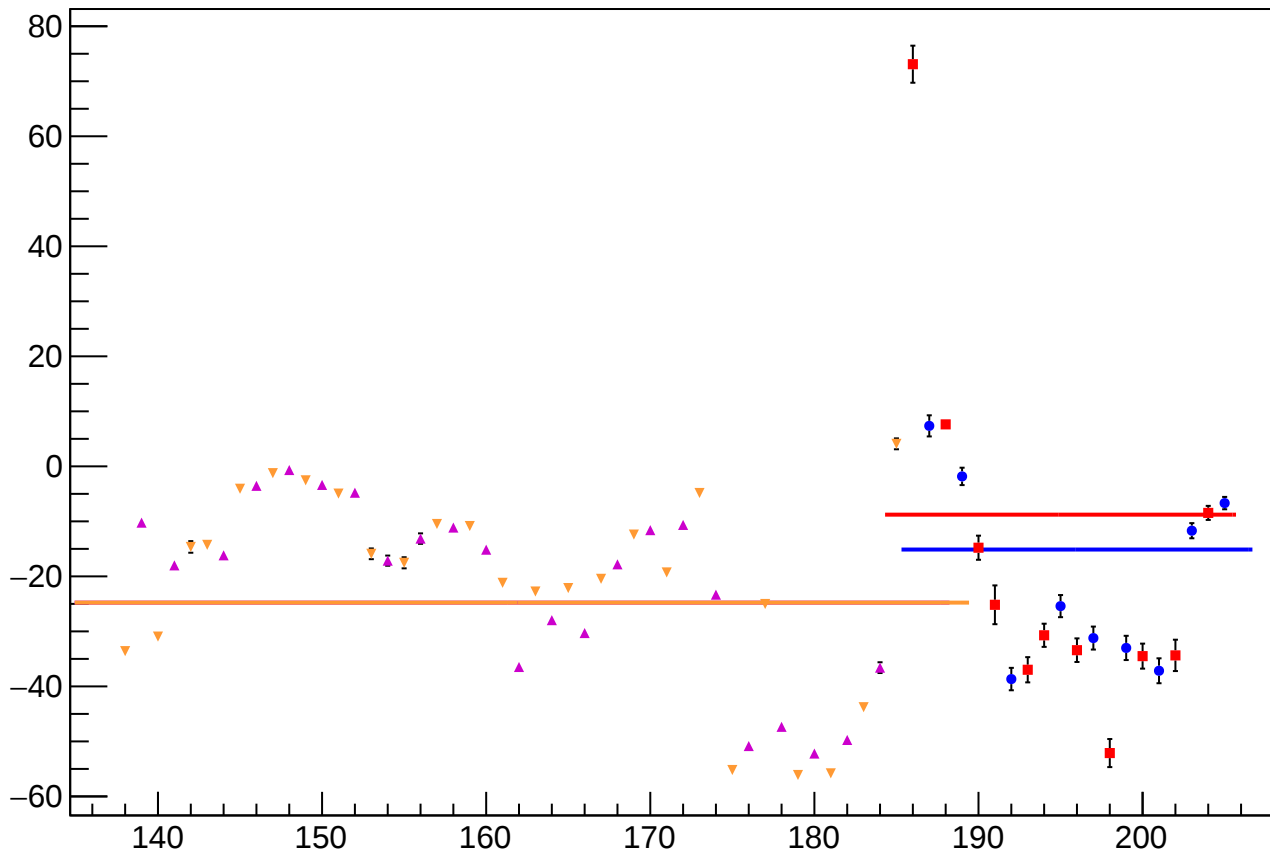
Right: 0.733 $\pm$ 0.006 χ^2 /NDF: 7851.3/55

In: 0.458 $\pm$ 0.004 χ^2 /NDF:8688.1/48

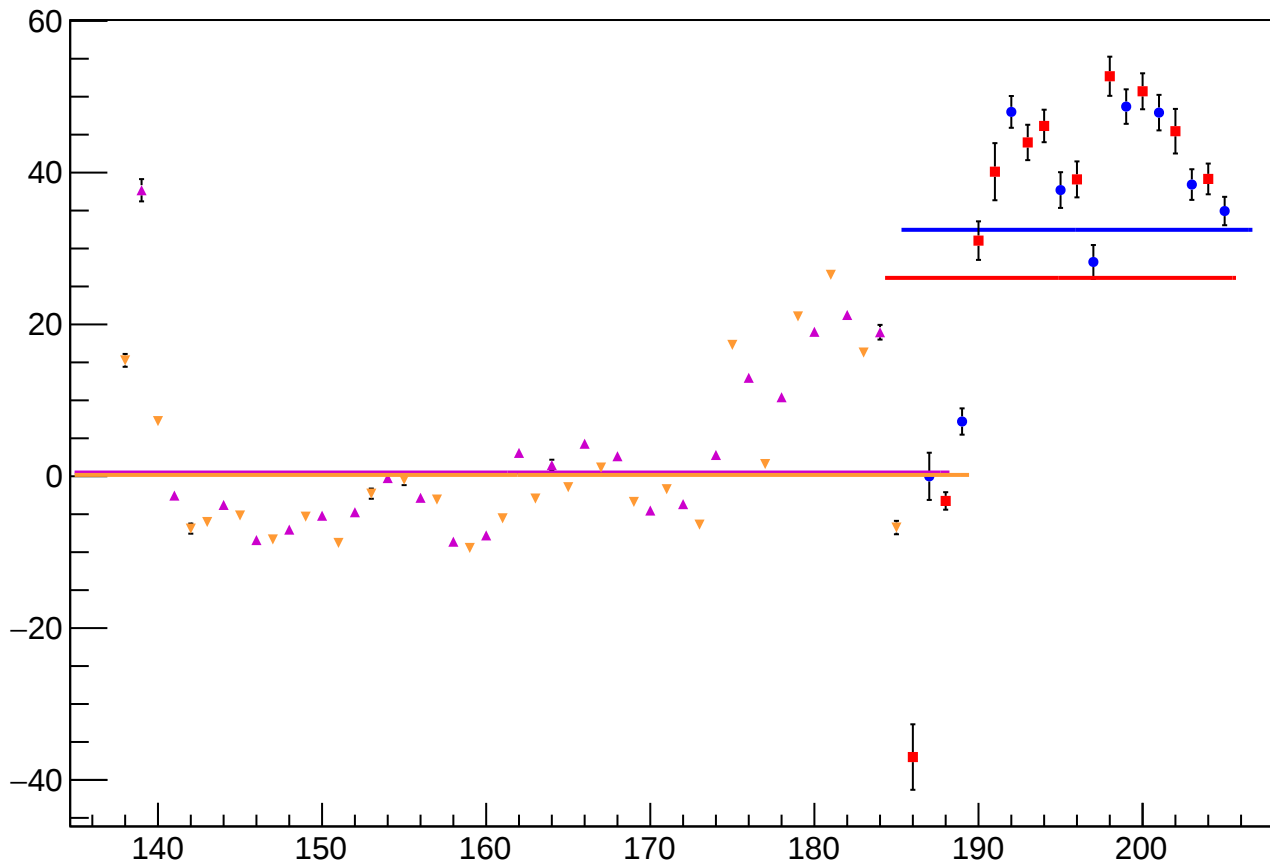
Out: 0.478 $\pm$ 0.004 χ^2 /NDF:8301.8/54

All: 0.468 $\pm$ 0.003 χ^2 /NDF: 17003.7/103

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



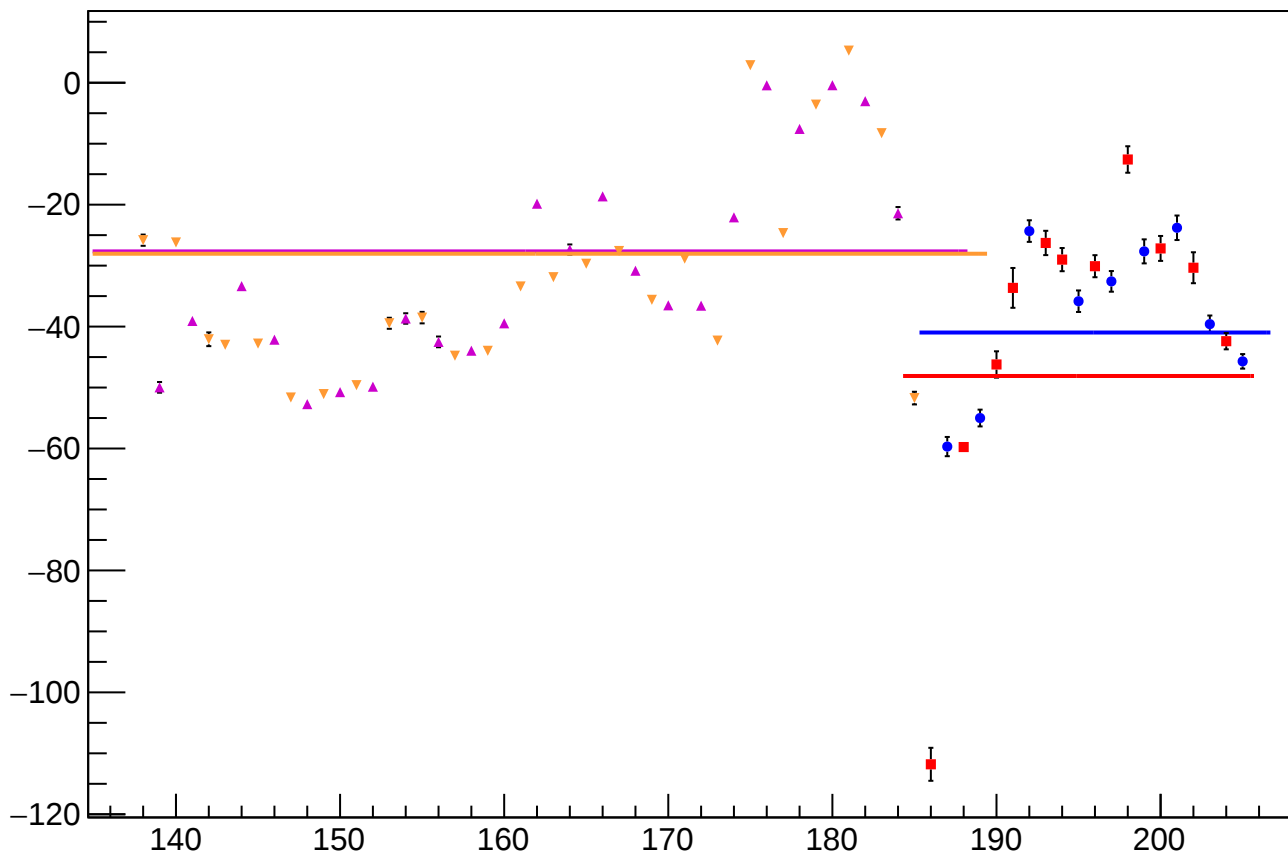
reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 32.463 ± 0.715 $\chi^2/\text{NDF}: 490.1/8$
 Left Out: 0.177 ± 0.109 $\chi^2/\text{NDF}: 8295.6/24$
 Right Out: 26.132 ± 0.659 $\chi^2/\text{NDF}: 1356.0/10$
 Left In: 0.493 ± 0.112 $\chi^2/\text{NDF}: 6555.4/22$

Left: 0.330 ± 0.078 $\chi^2/\text{NDF}: 14855.0/47$
 Right: 29.039 ± 0.485 $\chi^2/\text{NDF}: 1888.4/19$
 In: 1.259 ± 0.111 $\chi^2/\text{NDF}: 8994.2/31$
 Out: 0.862 ± 0.107 $\chi^2/\text{NDF}: 11160.9/35$
 All: 1.054 ± 0.077 $\chi^2/\text{NDF}: 20161.7/67$

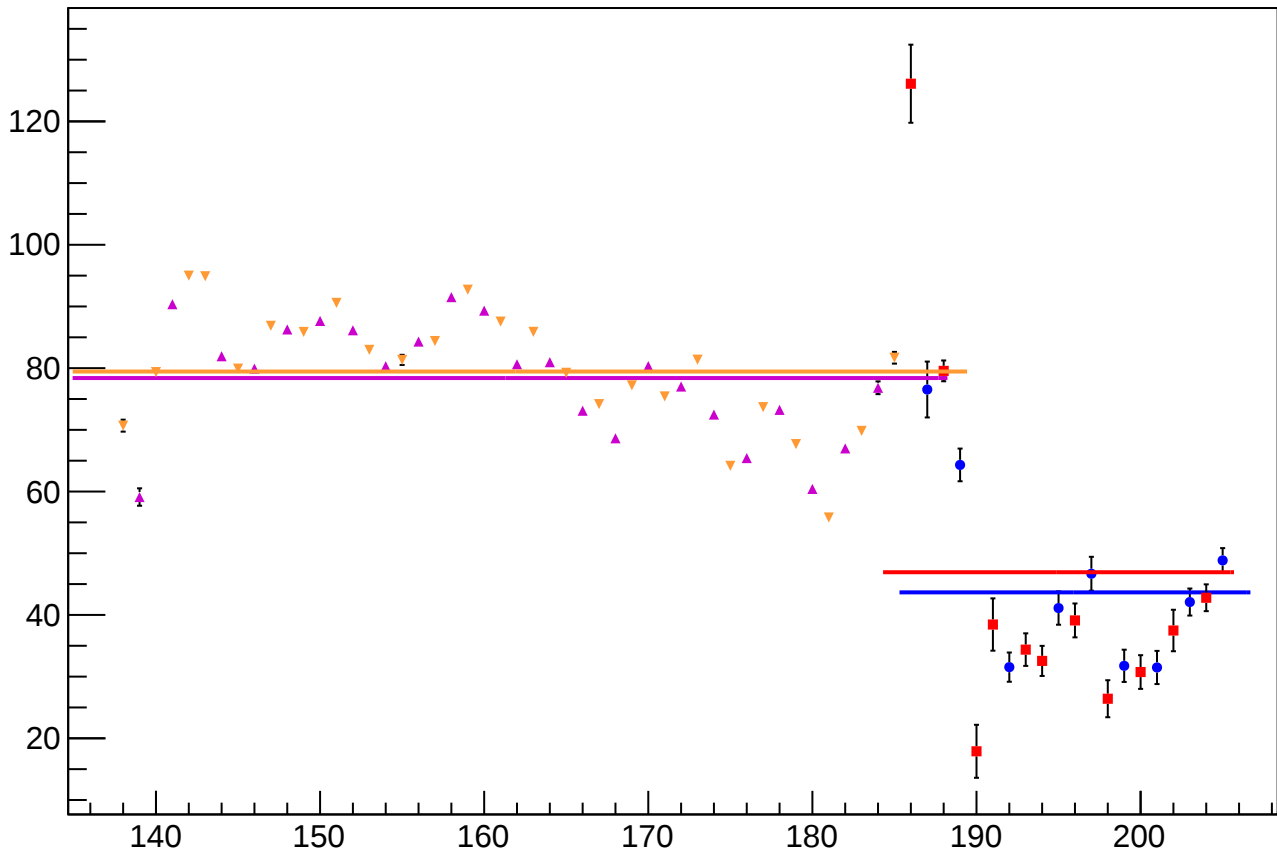
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -40.973±/0.525 χ^2/NDF : 500.9/8
 Left Out: -28.050±/0.140 χ^2/NDF :17144.5/24
 Right Out: -48.104±/0.455 χ^2/NDF : 1657.4/10
 Left In: -27.666±/0.142 χ^2/NDF :15003.2/22

Left: -27.862±/0.100 χ^2/NDF : 32151.3/47
 Right: -45.045±/0.344 χ^2/NDF : 2263.6/19
 In: -28.578±/0.137 χ^2/NDF :16102.1/31
 Out: -29.781±/0.134 χ^2/NDF :20576.1/35
 All: -29.196±/0.096 χ^2/NDF : 36717.5/67

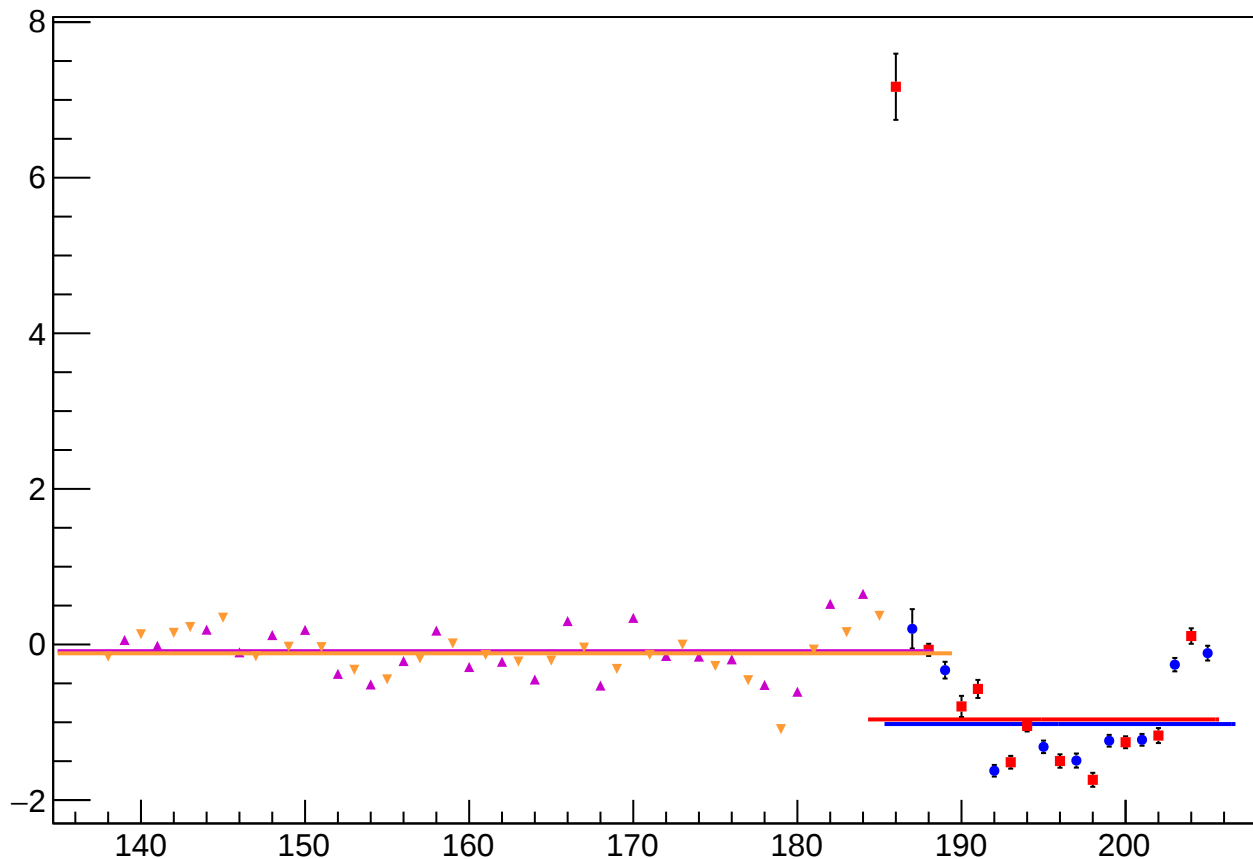
reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.655 $\pm$ 0.850 χ^2 /NDF: 190.4/8
 Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24
 Right Out: 46.921 $\pm$ 0.823 χ^2 /NDF: 739.6/10
 Left In: 78.396 $\pm$ 0.127 χ^2 /NDF: 4707.3/22

Left: 78.941 $\pm$ 0.088 χ^2 /NDF: 10820.4/47
 Right: 45.340 $\pm$ 0.591 χ^2 /NDF: 937.6/19
 In: 77.640 $\pm$ 0.125 χ^2 /NDF: 6533.2/31
 Out: 78.743 $\pm$ 0.122 χ^2 /NDF: 8345.0/35
 All: 78.207 $\pm$ 0.087 χ^2 /NDF: 14918.1/67

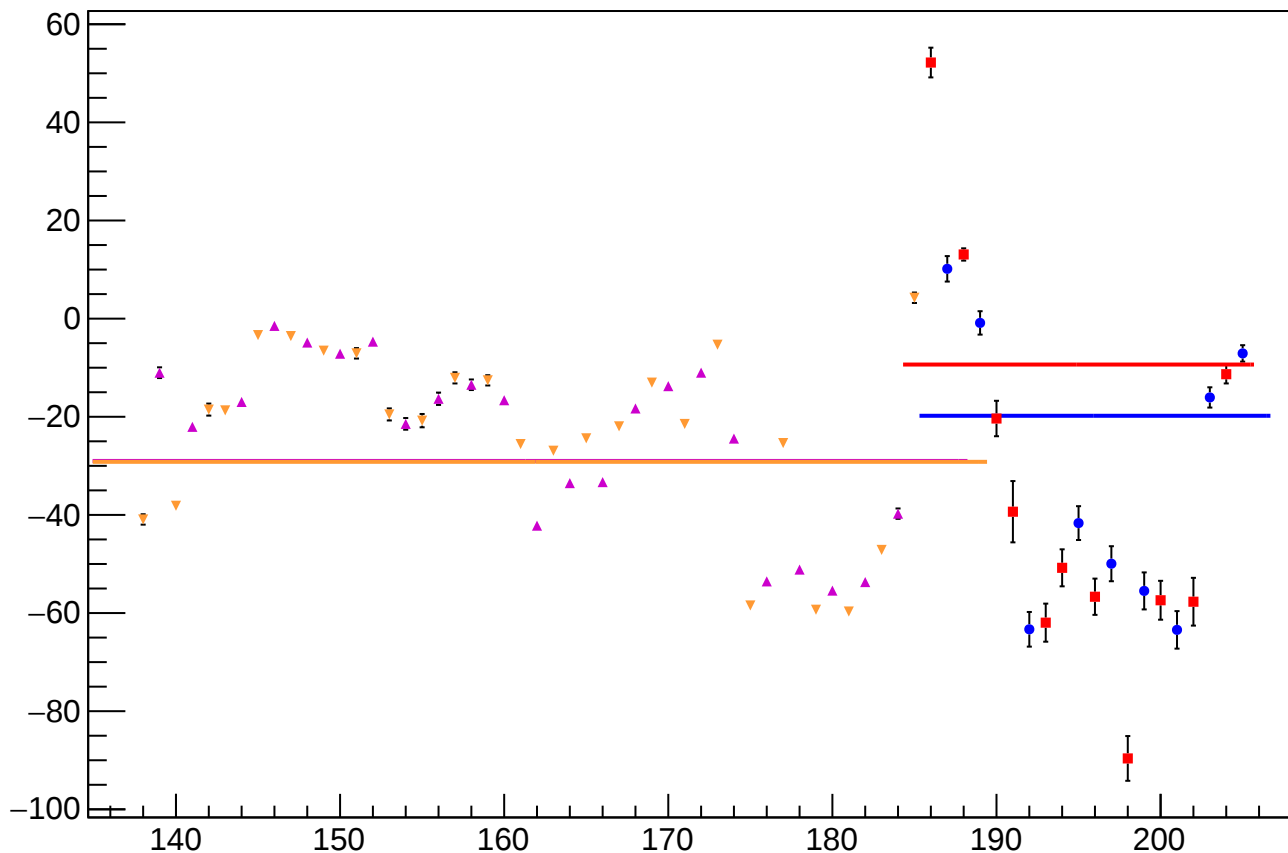
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.023 ± 0.029 χ^2/NDF : 354.1/8
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.964 ± 0.028 χ^2/NDF : 805.0/10
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.992 ± 0.020 χ^2/NDF : 1161.2/19
 In: -0.121 ± 0.006 χ^2/NDF : 4457.4/31
 Out: -0.147 ± 0.006 χ^2/NDF : 3999.1/35
 All: -0.134 ± 0.004 χ^2/NDF : 8467.3/67

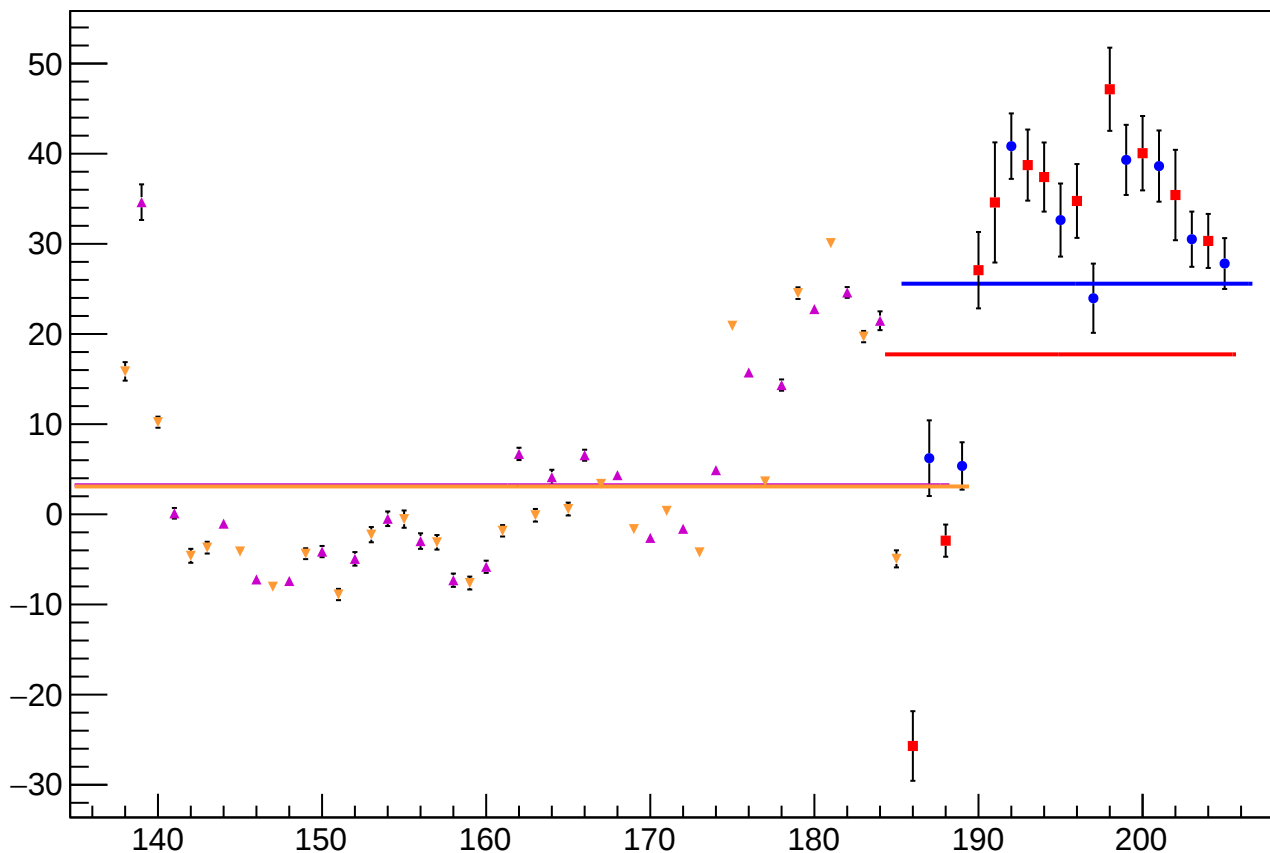
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.796 ± 0.878 $\chi^2/\text{NDF}: 740.0/8$
 Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$
 Right Out: -9.355 ± 0.818 $\chi^2/\text{NDF}: 1791.3/10$
 Left In: -29.003 ± 0.160 $\chi^2/\text{NDF}: 13416.8/22$

Left: -29.093 ± 0.112 $\chi^2/\text{NDF}: 30329.6/47$
 Right: -14.204 ± 0.598 $\chi^2/\text{NDF}: 2607.1/19$
 In: -28.707 ± 0.157 $\chi^2/\text{NDF}: 14263.2/31$
 Out: -28.477 ± 0.154 $\chi^2/\text{NDF}: 19270.6/35$
 All: -28.590 ± 0.110 $\chi^2/\text{NDF}: 33534.9/67$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.580 $\pm$ 1.140 χ^2 /NDF: 127.9/8

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: 17.742 $\pm$ 1.049 χ^2 /NDF: 443.8/10

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

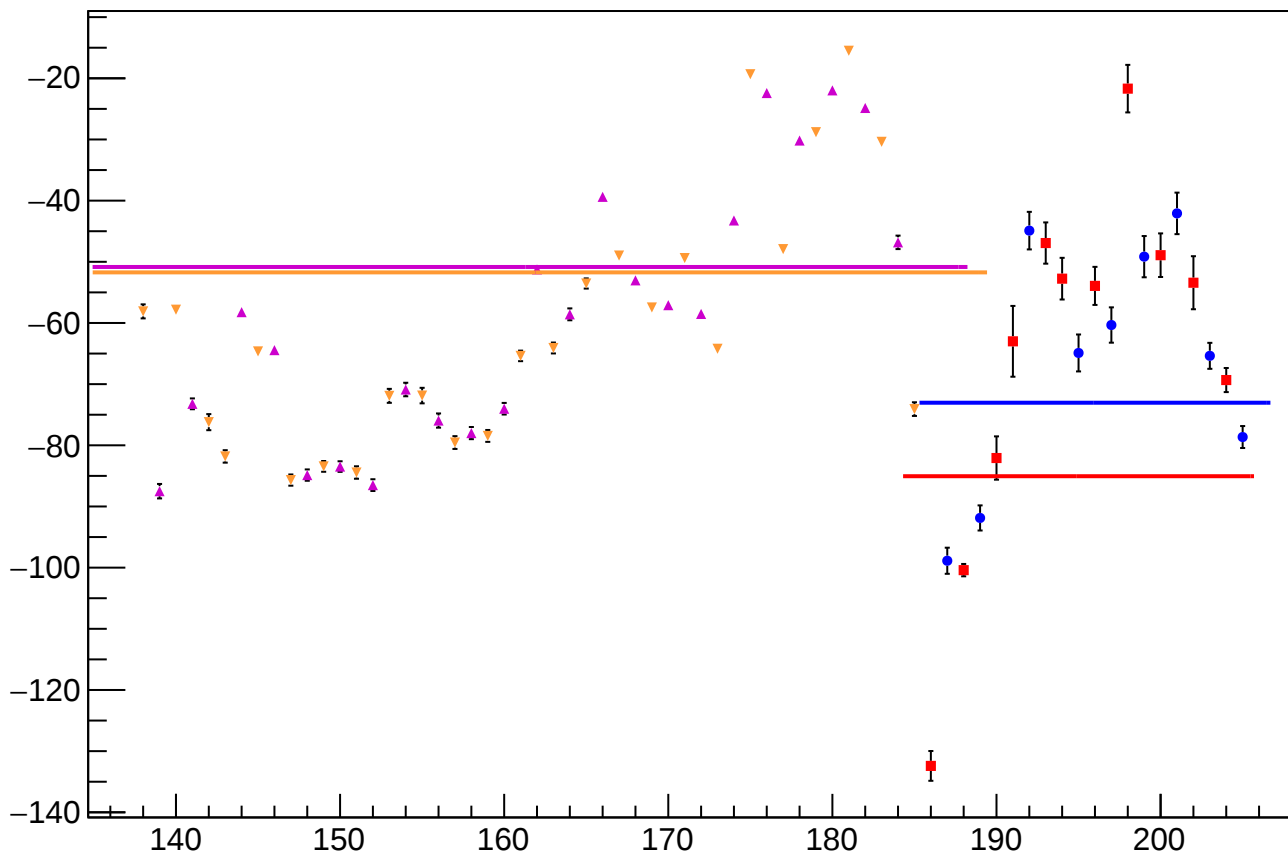
Right: 21.336 $\pm$ 0.772 χ^2 /NDF: 597.3/19

In: 3.495 $\pm$ 0.126 χ^2 /NDF:6745.3/31

Out: 3.294 $\pm$ 0.124 χ^2 /NDF:8720.0/35

All: 3.392 $\pm$ 0.088 χ^2 /NDF: 15466.6/67

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -73.037 ± 0.817 $\chi^2/\text{NDF}: 497.4/8$

Left Out: -51.729 ± 0.158 $\chi^2/\text{NDF}: 19538.0/24$

Right Out: -85.053 ± 0.709 $\chi^2/\text{NDF}: 1427.6/10$

Left In: -50.844 ± 0.160 $\chi^2/\text{NDF}: 17272.0/22$

Left: -51.293 ± 0.112 $\chi^2/\text{NDF}: 36825.5/47$

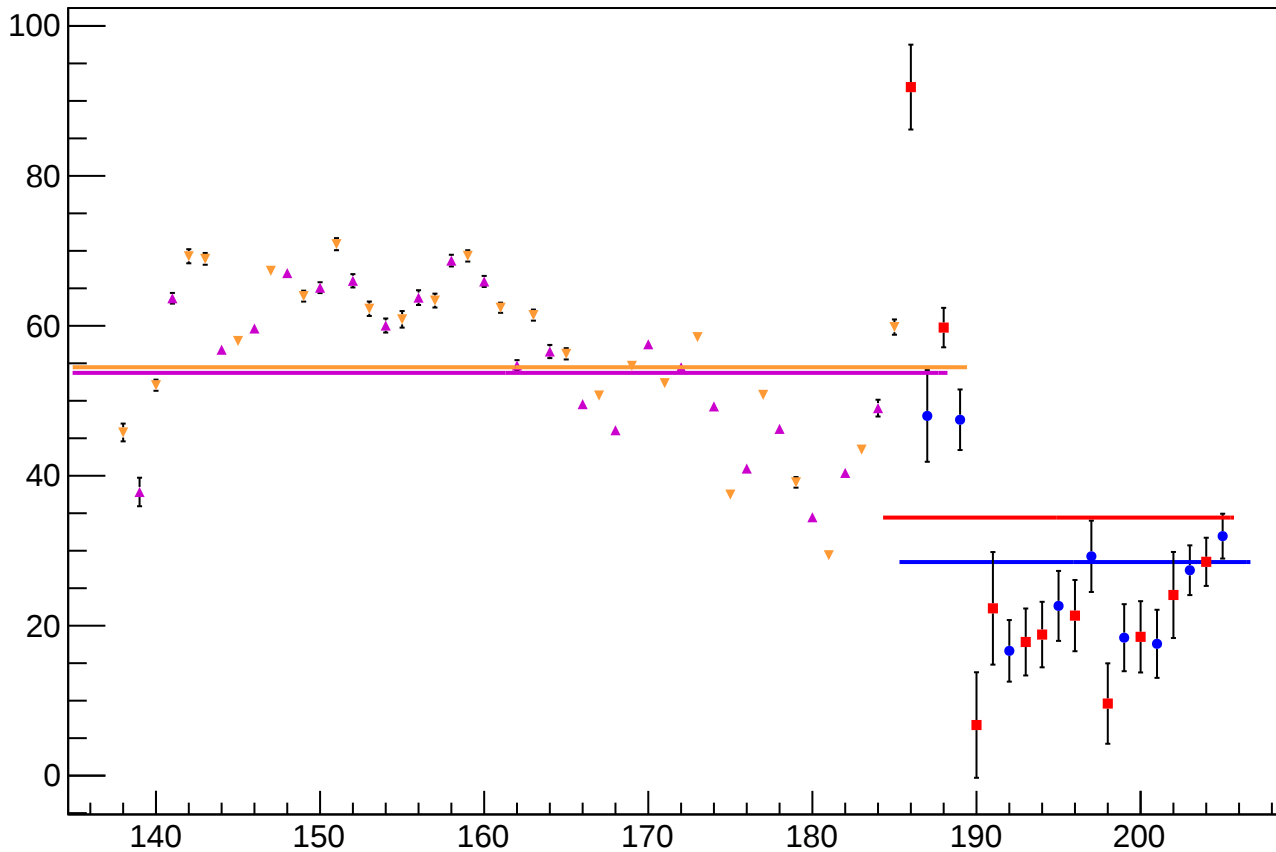
Right: -79.891 ± 0.535 $\chi^2/\text{NDF}: 2048.4/19$

In: -51.666 ± 0.157 $\chi^2/\text{NDF}: 18480.5/31$

Out: -53.304 ± 0.154 $\chi^2/\text{NDF}: 23071.3/35$

All: -52.501 ± 0.110 $\chi^2/\text{NDF}: 41607.3/67$

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.489 $\pm$ 1.363 χ^2 /NDF: 54.4/8

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF: 6266.9/24

Right Out: 34.422 $\pm$ 1.329 χ^2 /NDF: 287.1/10

Left In: 53.724 $\pm$ 0.143 χ^2 /NDF: 4585.7/22

Left: 54.107 $\pm$ 0.100 χ^2 /NDF: 10866.7/47

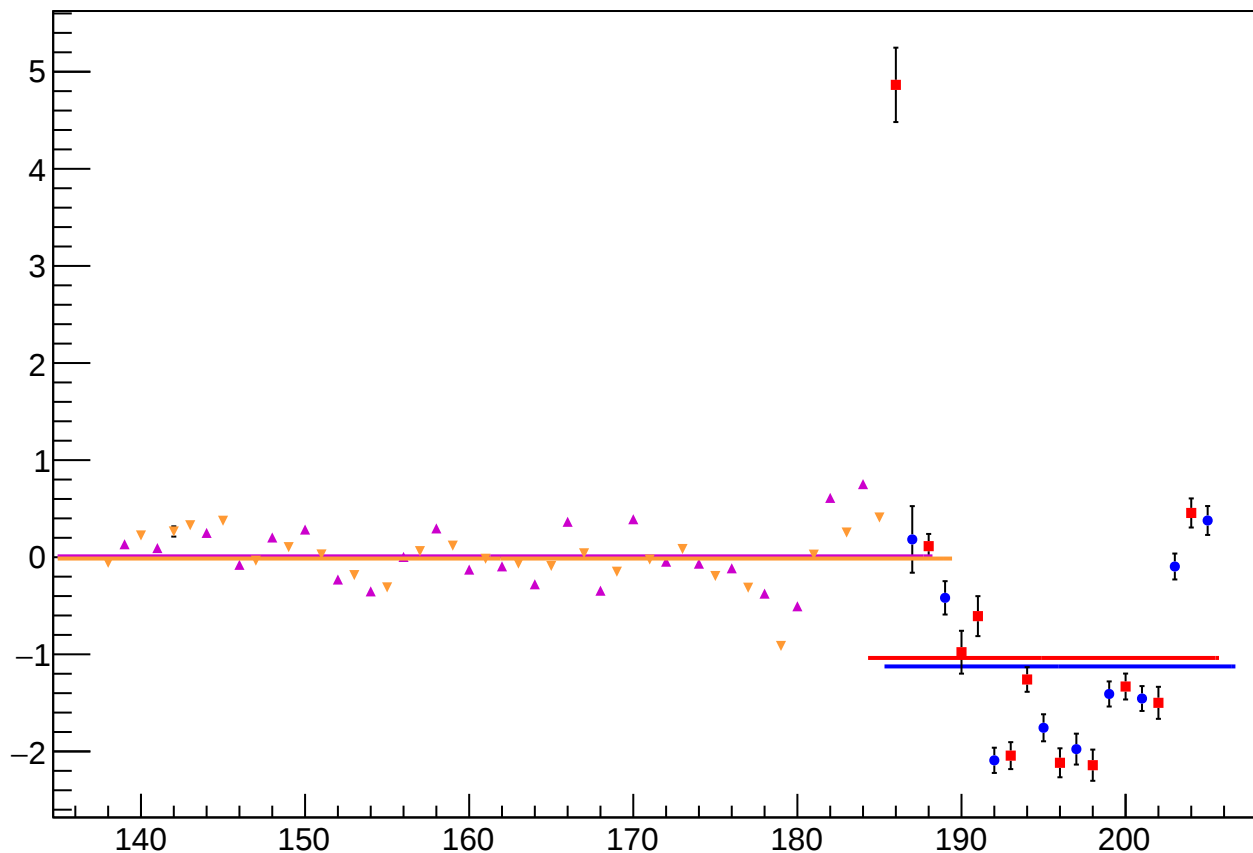
Right: 31.531 $\pm$ 0.951 χ^2 /NDF: 351.2/19

In: 53.448 $\pm$ 0.142 χ^2 /NDF: 4979.3/31

Out: 54.255 $\pm$ 0.139 χ^2 /NDF: 6779.3/35

All: 53.860 $\pm$ 0.100 χ^2 /NDF: 11775.0/67

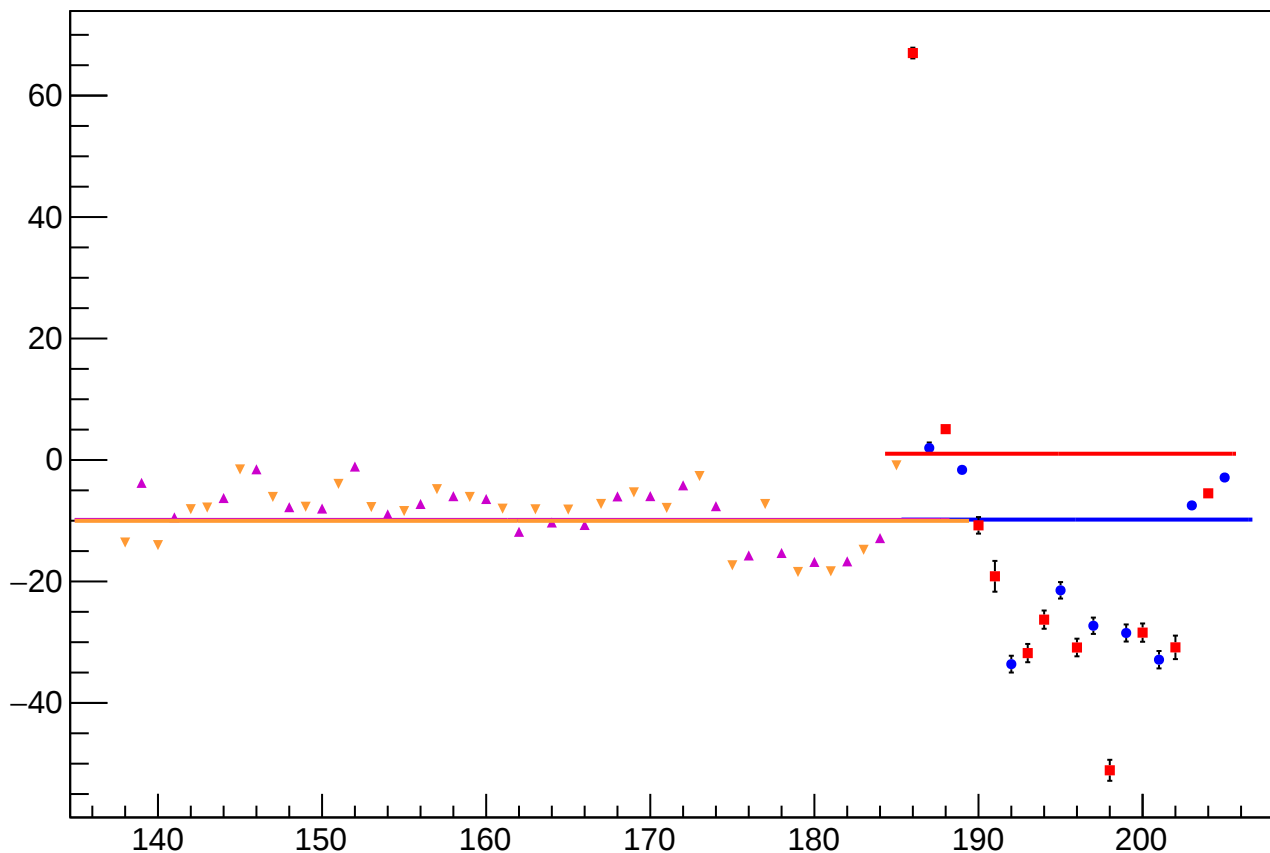
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.125 ± 0.049 χ^2/NDF : 309.0/8
 Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24
 Right Out: -1.037 ± 0.047 χ^2/NDF : 593.0/10
 Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47
 Right: -1.079 ± 0.034 χ^2/NDF : 903.6/19
 In: -0.011 ± 0.006 χ^2/NDF : 3053.4/31
 Out: -0.032 ± 0.006 χ^2/NDF : 2710.1/35
 All: -0.022 ± 0.005 χ^2/NDF : 5769.1/67

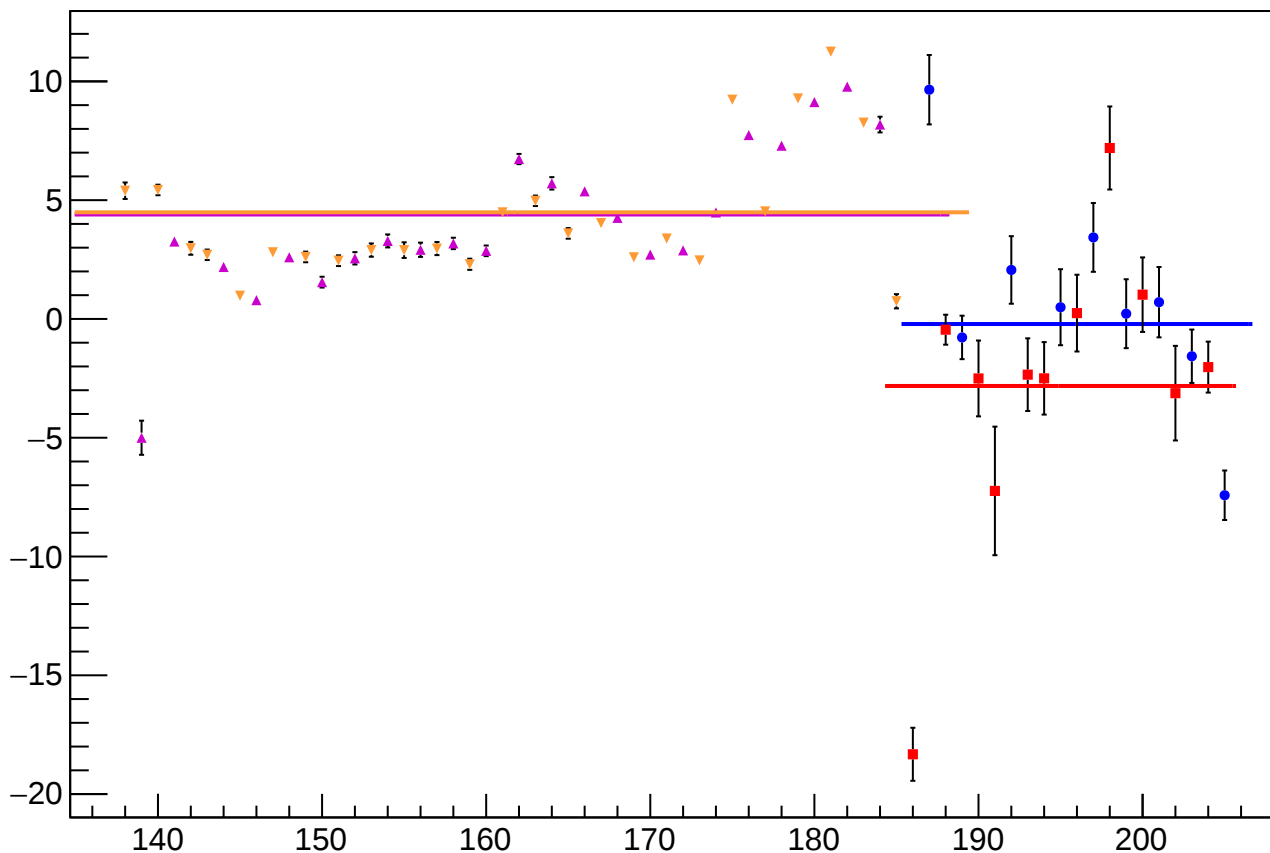
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.814 ± 0.320 $\chi^2/\text{NDF}: 1380.8/8$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: 1.031 ± 0.293 $\chi^2/\text{NDF}: 8726.9/10$
 Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$
 Right: -3.914 ± 0.216 $\chi^2/\text{NDF}: 10731.3/19$
 In: -9.864 ± 0.051 $\chi^2/\text{NDF}: 10726.2/31$
 Out: -9.697 ± 0.050 $\chi^2/\text{NDF}: 22657.9/35$
 All: -9.779 ± 0.036 $\chi^2/\text{NDF}: 33389.7/67$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.214 ± 0.420 χ^2/NDF : 105.0/8

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -2.821 ± 0.380 χ^2/NDF : 252.9/10

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

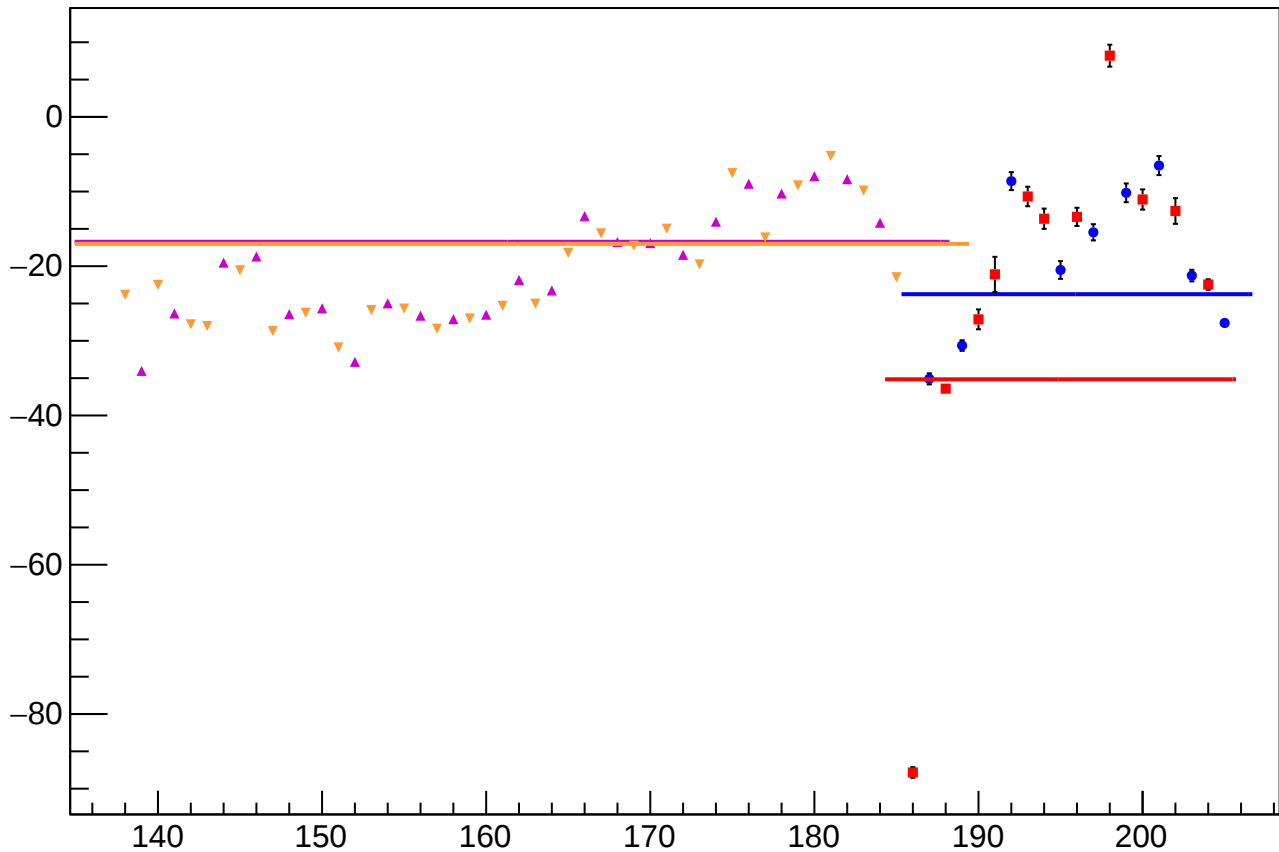
Right: -1.649 ± 0.282 χ^2/NDF : 379.1/19

In: 4.352 ± 0.041 χ^2/NDF : 4454.8/31

Out: 4.406 ± 0.040 χ^2/NDF : 5451.9/35

All: 4.379 ± 0.029 χ^2/NDF : 9907.5/67

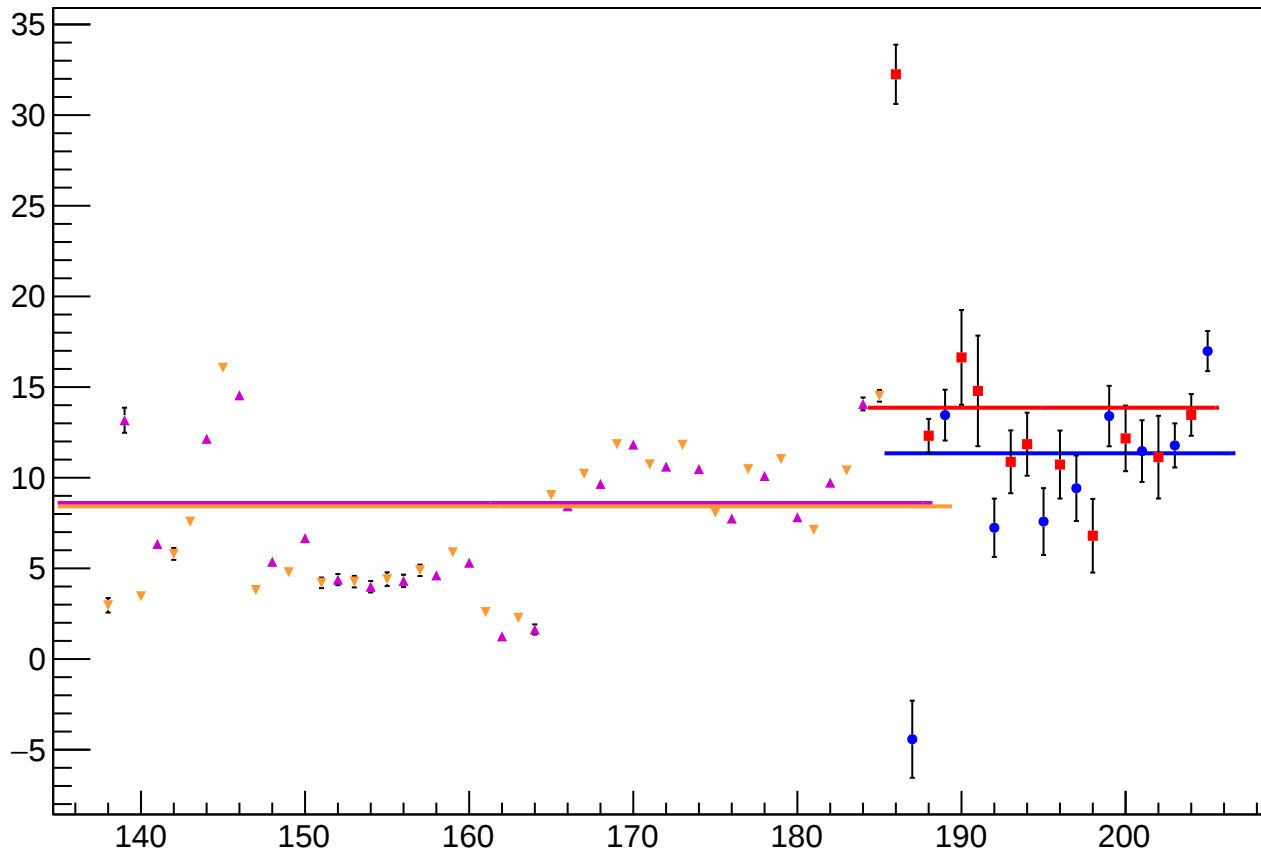
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -23.751 ± 0.298 $\chi^2/\text{NDF}: 897.9/8$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -35.152 ± 0.253 $\chi^2/\text{NDF}: 8173.6/10$
 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: -30.373 ± 0.193 $\chi^2/\text{NDF}: 9922.5/19$
 In: -16.936 ± 0.051 $\chi^2/\text{NDF}: 20214.5/31$
 Out: -17.718 ± 0.050 $\chi^2/\text{NDF}: 35208.6/35$
 All: -17.333 ± 0.036 $\chi^2/\text{NDF}: 55543.6/67$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.347 ± 0.505 $\chi^2/\text{NDF}: 96.7/8$

Left Out: 8.422 ± 0.046 $\chi^2/\text{NDF}: 6470.1/24$

Right Out: 13.861 ± 0.486 $\chi^2/\text{NDF}: 152.0/10$

Left In: 8.606 ± 0.046 $\chi^2/\text{NDF}: 5504.2/22$

Left: 8.513 ± 0.032 $\chi^2/\text{NDF}: 11982.4/47$

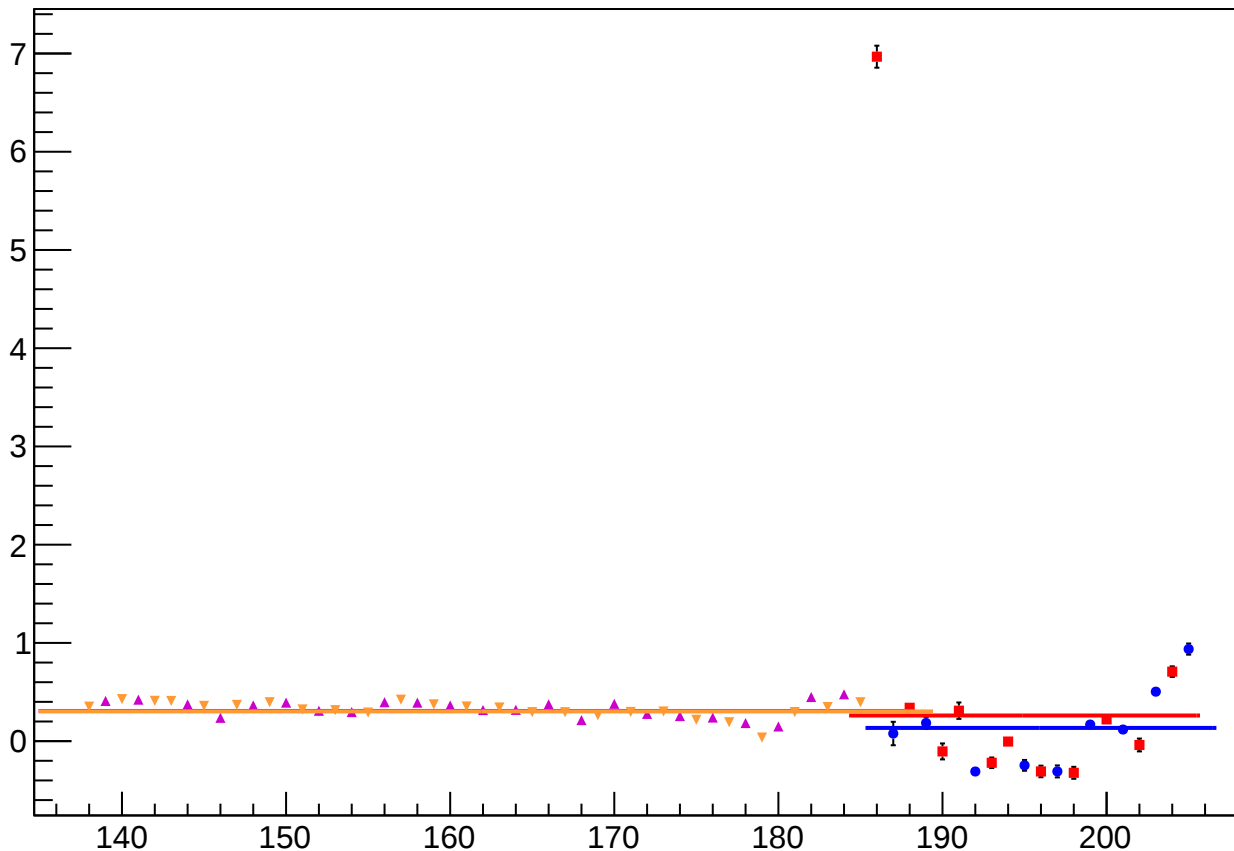
Right: 12.651 ± 0.350 $\chi^2/\text{NDF}: 261.5/19$

In: 8.629 ± 0.046 $\chi^2/\text{NDF}: 5630.1/31$

Out: 8.469 ± 0.045 $\chi^2/\text{NDF}: 6746.1/35$

All: 8.548 ± 0.032 $\chi^2/\text{NDF}: 12382.3/67$

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected

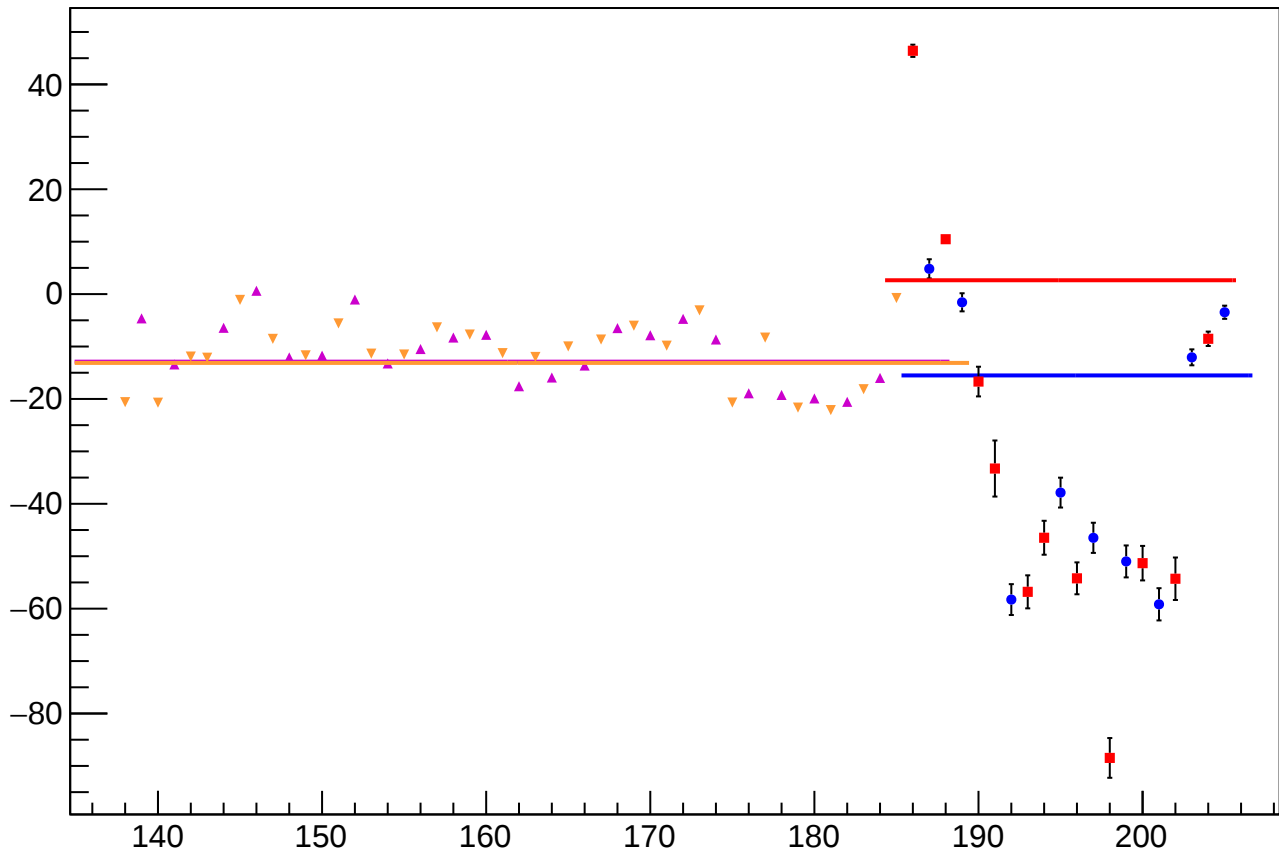


Right In: 0.135 ± 0.019 $\chi^2/\text{NDF}: 433.7/8$
 Left Out: 0.302 ± 0.002 $\chi^2/\text{NDF}: 1590.9/24$
 Right Out: 0.261 ± 0.018 $\chi^2/\text{NDF}: 3979.6/10$
 Left In: 0.307 ± 0.002 $\chi^2/\text{NDF}: 1699.5/22$

Left: 0.305 ± 0.001 $\chi^2/\text{NDF}: 3293.0/47$
 Right: 0.200 ± 0.013 $\chi^2/\text{NDF}: 4437.3/19$
 In: 0.305 ± 0.002 $\chi^2/\text{NDF}: 2218.5/31$
 Out: 0.302 ± 0.002 $\chi^2/\text{NDF}: 5575.8/35$

All: 0.303 ± 0.001 $\chi^2/\text{NDF}: 7795.4/67$

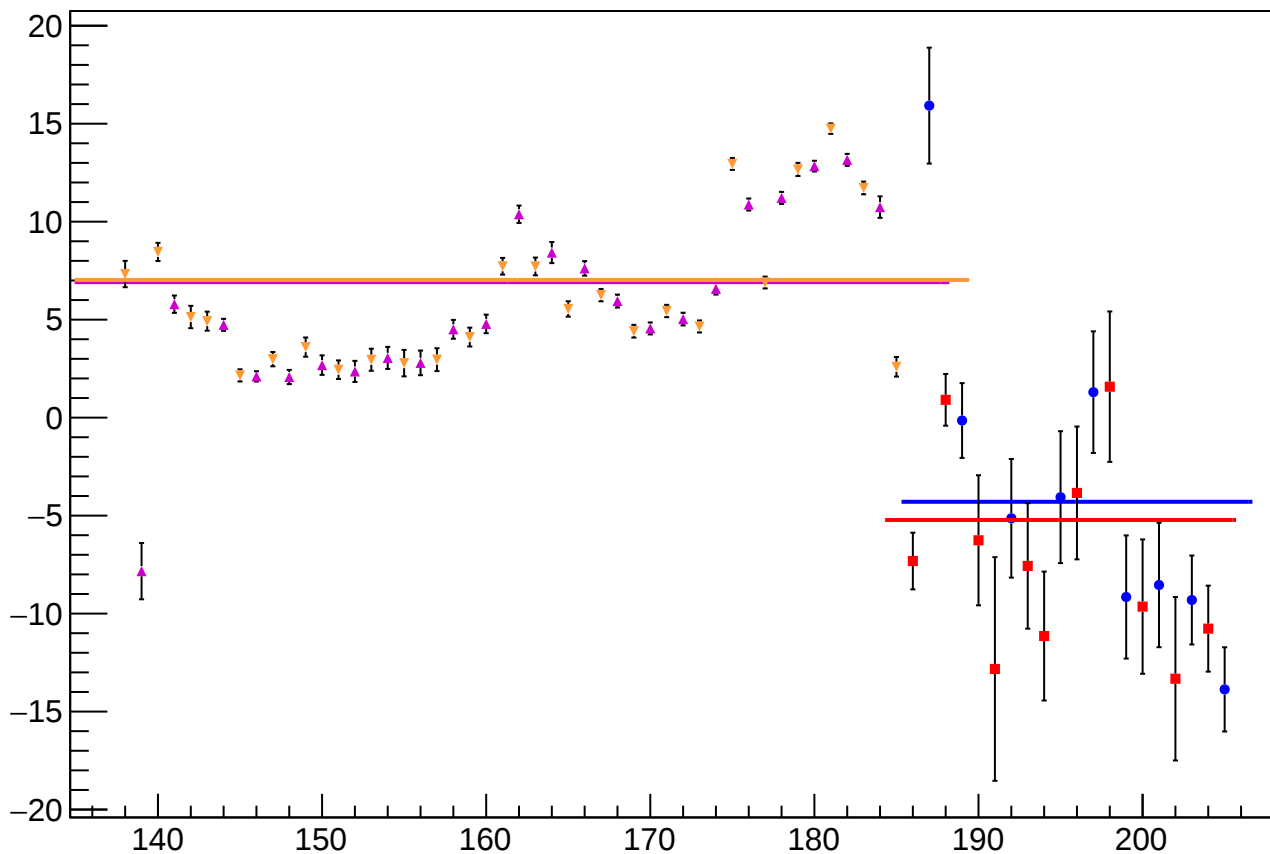
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.514 ± 0.663 $\chi^2/\text{NDF}: 1011.6/8$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: 2.641 ± 0.568 $\chi^2/\text{NDF}: 3615.0/10$
 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: -5.035 ± 0.431 $\chi^2/\text{NDF}: 5058.8/19$
 In: -12.938 ± 0.094 $\chi^2/\text{NDF}: 5803.1/31$
 Out: -12.707 ± 0.092 $\chi^2/\text{NDF}: 10343.1/35$
 All: -12.821 ± 0.066 $\chi^2/\text{NDF}: 16149.3/67$

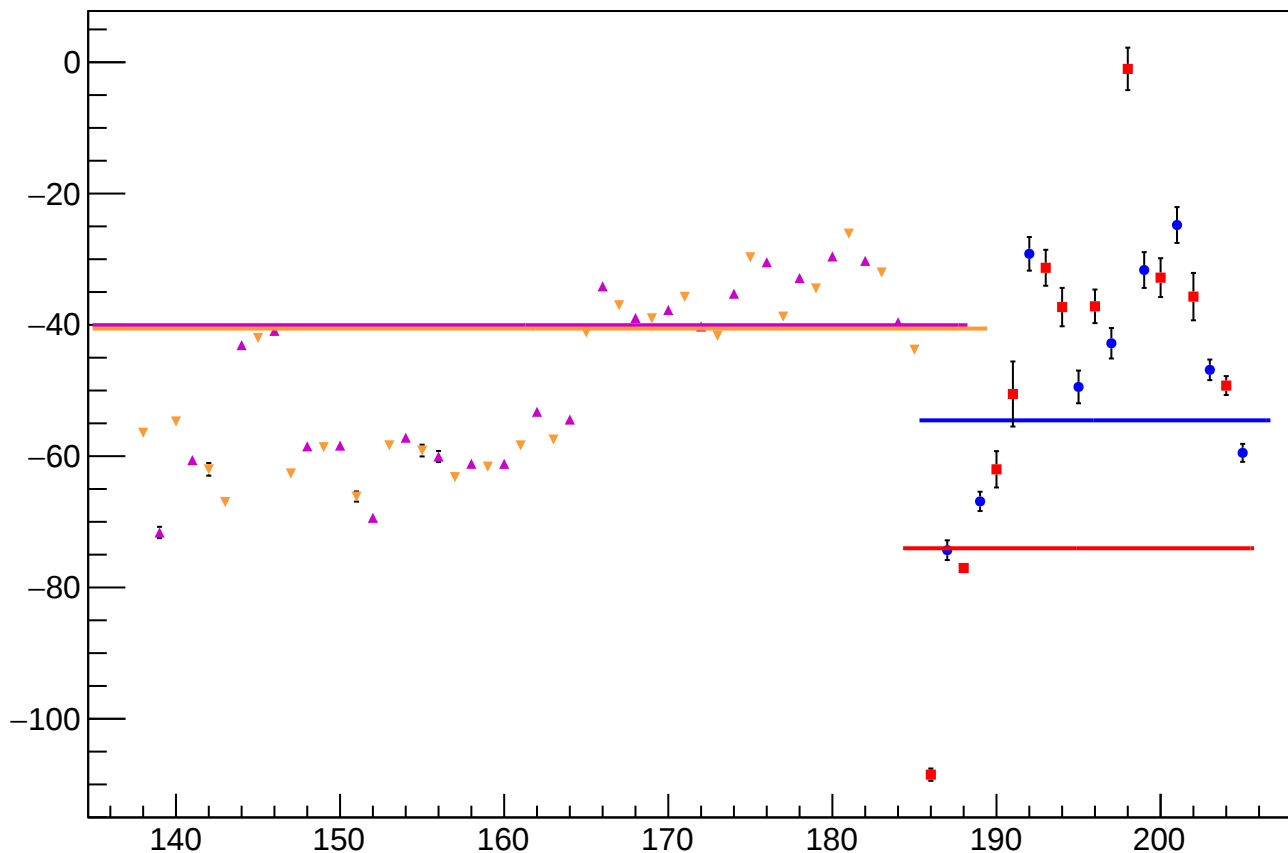
reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.294+/-0.877 χ^2/NDF : 83.7/8
 Left Out: 7.028+/-0.077 χ^2/NDF :2665.3/24
 Right Out: -5.222+/-0.731 χ^2/NDF : 44.5/10
 Left In: 6.914+/-0.078 χ^2/NDF :2428.2/22

Left: 6.971+/-0.055 χ^2/NDF : 5094.6/47
 Right: -4.841+/-0.562 χ^2/NDF : 128.8/19
 In: 6.826+/-0.077 χ^2/NDF :2674.2/31
 Out: 6.893+/-0.077 χ^2/NDF :2987.2/35
 All: 6.860+/-0.055 χ^2/NDF : 5661.8/67

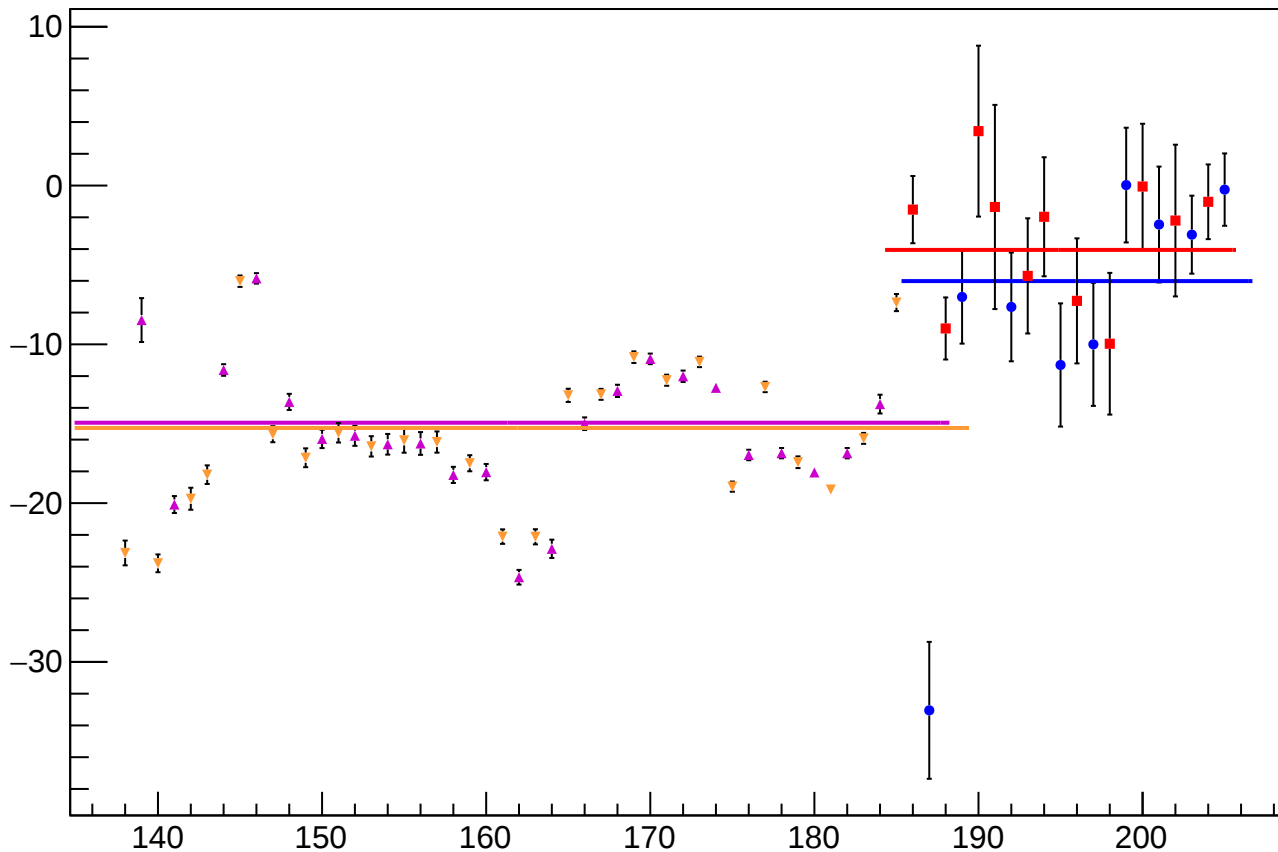
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -54.544 +/- 0.618 χ^2/NDF : 598.2/8
 Left Out: -40.563 +/- 0.095 χ^2/NDF : 15637.6/24
 Right Out: -74.027 +/- 0.485 χ^2/NDF : 3136.0/10
 Left In: -40.053 +/- 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 +/- 0.067 χ^2/NDF : 29579.2/47
 Right: -66.612 +/- 0.382 χ^2/NDF : 4349.0/19
 In: -40.392 +/- 0.095 χ^2/NDF : 15061.7/31
 Out: -41.794 +/- 0.093 χ^2/NDF : 23363.9/35
 All: -41.104 +/- 0.066 χ^2/NDF : 38537.4/67

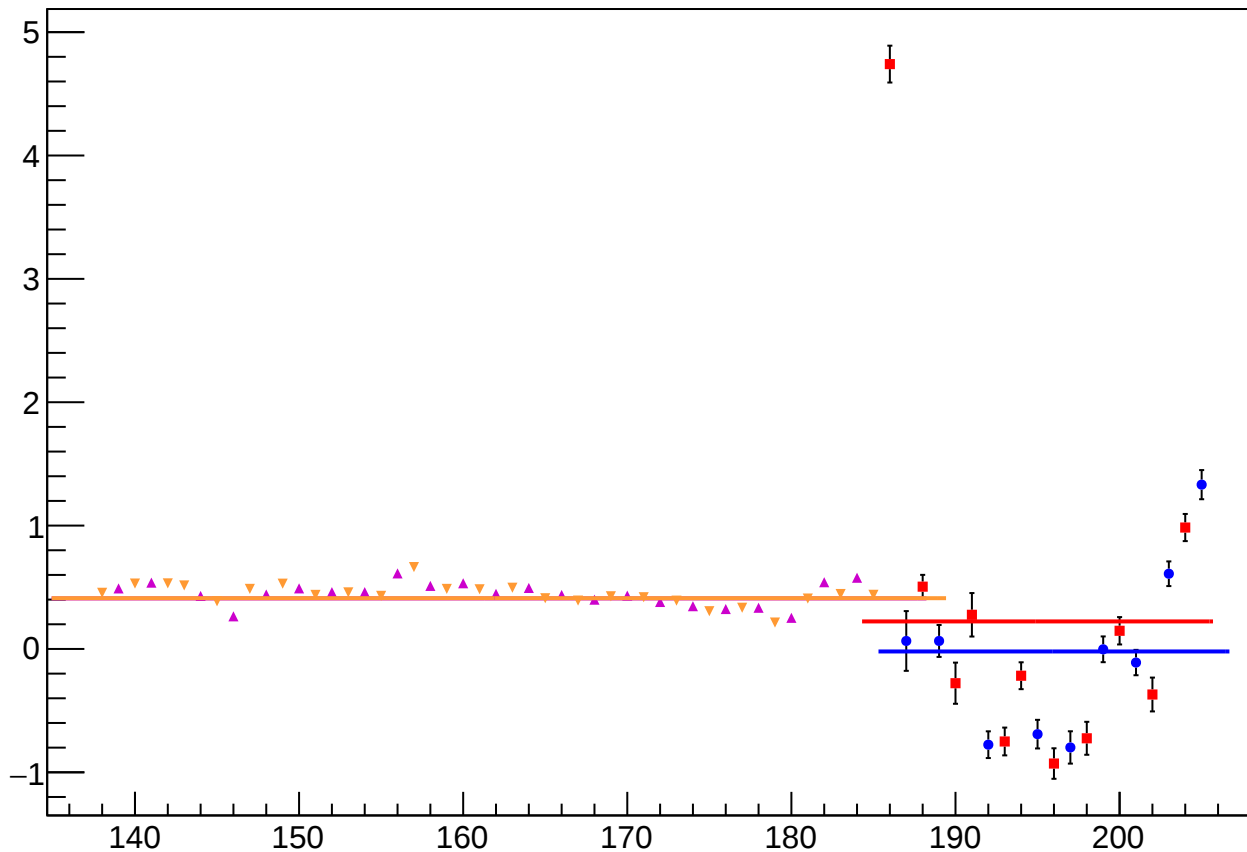
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.017 $\pm$ 1.055 χ^2 /NDF: 54.1/8
 Left Out: -15.266 $\pm$ 0.086 χ^2 /NDF:2595.5/24
 Right Out: -4.052 $\pm$ 0.956 χ^2 /NDF: 15.7/10
 Left In: -14.936 $\pm$ 0.087 χ^2 /NDF:2199.7/22

Left: -15.103 $\pm$ 0.061 χ^2 /NDF: 4802.4/47
 Right: -4.938 $\pm$ 0.709 χ^2 /NDF: 71.7/19
 In: -14.876 $\pm$ 0.087 χ^2 /NDF:2324.8/31
 Out: -15.176 $\pm$ 0.086 χ^2 /NDF:2747.6/35
 All: -15.028 $\pm$ 0.061 χ^2 /NDF: 5078.5/67

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.020 ± 0.039 χ^2/NDF : 289.4/8

Left Out: 0.411 ± 0.004 χ^2/NDF : 428.7/24

Right Out: 0.223 ± 0.037 χ^2/NDF : 1227.6/10

Left In: 0.409 ± 0.004 χ^2/NDF : 557.8/22

Left: 0.410 ± 0.003 χ^2/NDF : 986.7/47

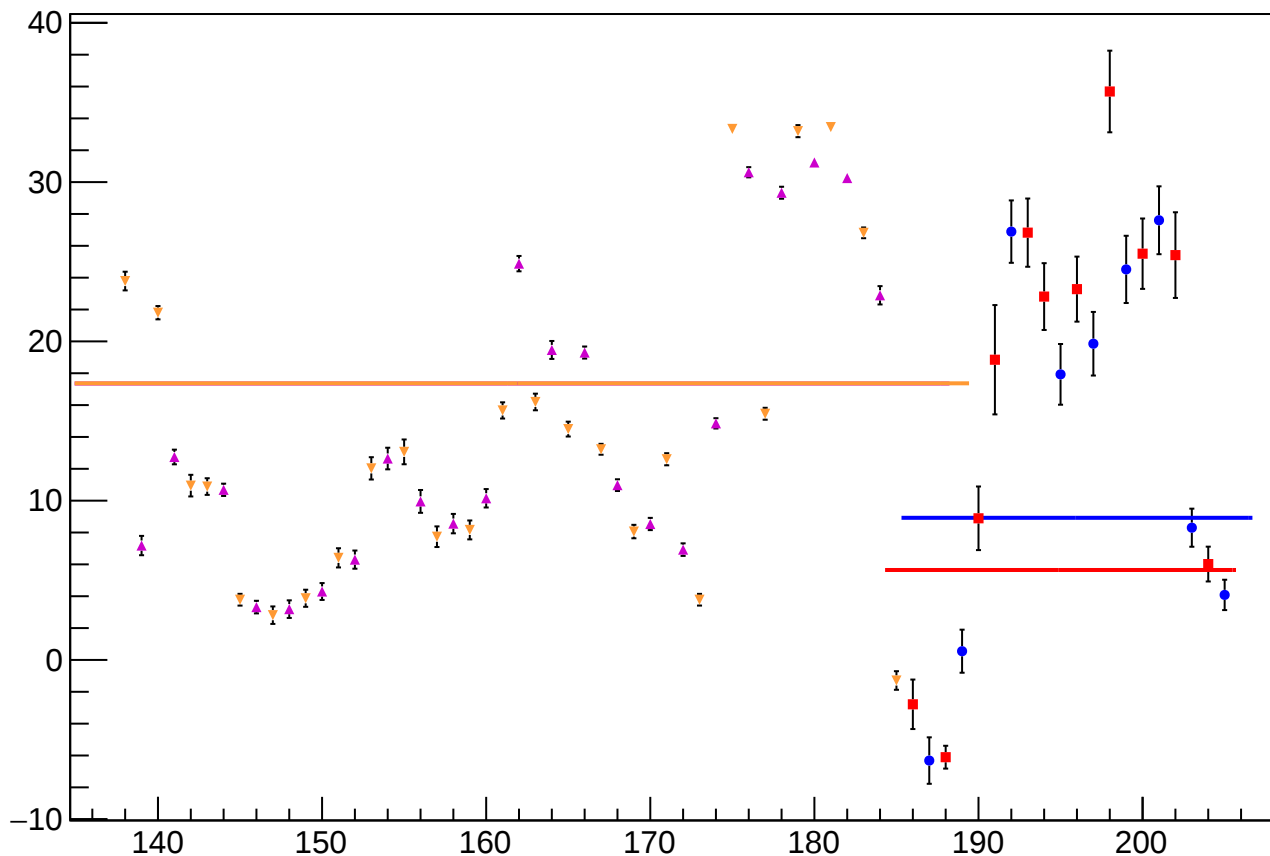
Right: 0.108 ± 0.027 χ^2/NDF : 1537.3/19

In: 0.405 ± 0.004 χ^2/NDF : 966.5/31

Out: 0.409 ± 0.004 χ^2/NDF : 1681.6/35

All: 0.407 ± 0.003 χ^2/NDF : 2648.8/67

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 8.924 ± 0.497 χ^2/NDF : 441.6/8

Left Out: 17.367 ± 0.087 χ^2/NDF : 16337.6/24

Right Out: 5.647 ± 0.461 χ^2/NDF : 827.4/10

Left In: 17.355 ± 0.089 χ^2/NDF : 12745.1/22

Left: 17.361 ± 0.062 χ^2/NDF : 29082.8/47

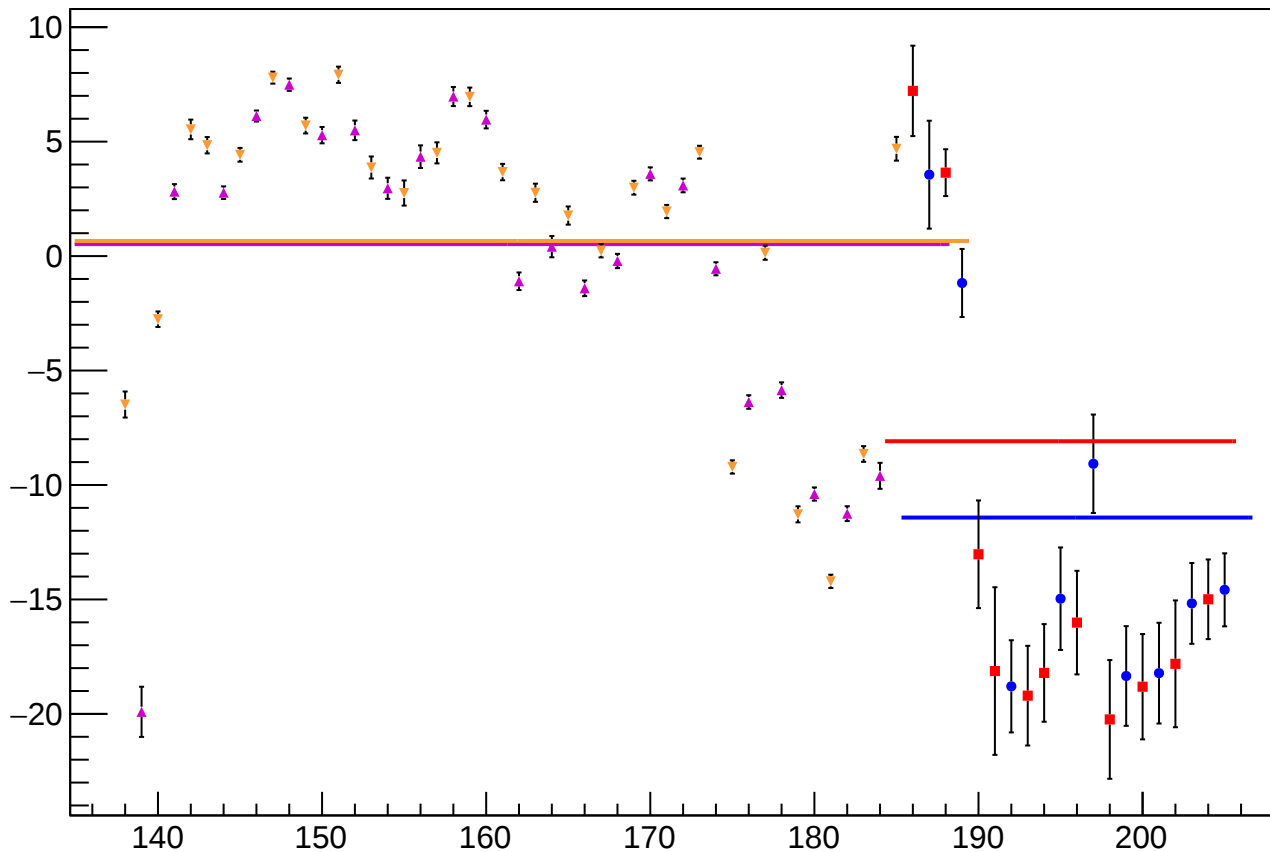
Right: 7.162 ± 0.338 χ^2/NDF : 1292.4/19

In: 17.094 ± 0.088 χ^2/NDF : 13465.7/31

Out: 16.963 ± 0.086 χ^2/NDF : 17790.2/35

All: 17.027 ± 0.061 χ^2/NDF : 31257.0/67

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.423 ± 0.642 χ^2/NDF : 133.0/8

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -8.089 ± 0.588 χ^2/NDF : 336.1/10

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

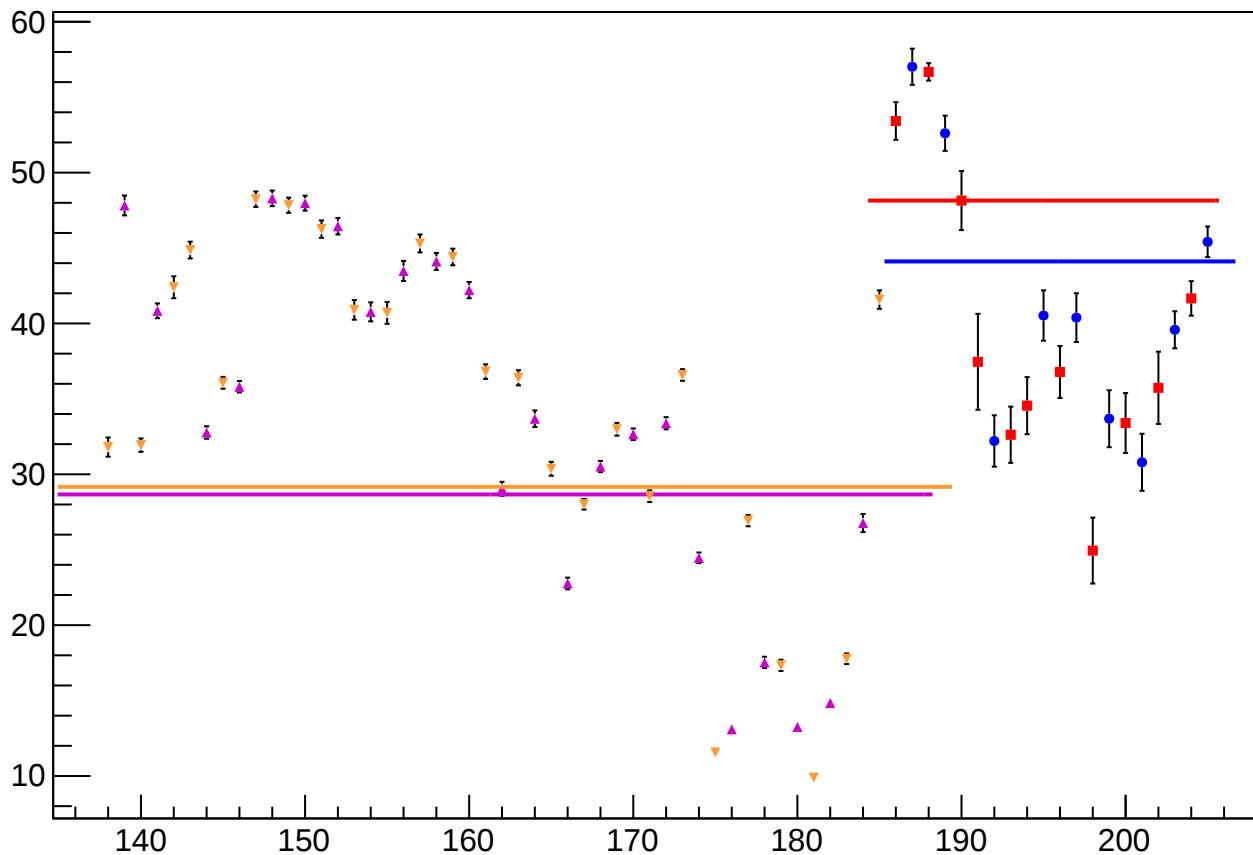
Right: -9.610 ± 0.434 χ^2/NDF : 483.8/19

In: 0.380 ± 0.070 χ^2/NDF : 7204.7/31

Out: 0.541 ± 0.069 χ^2/NDF : 9108.4/35

All: 0.462 ± 0.049 χ^2/NDF : 16315.7/67

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 44.113 ± 0.461 χ^2/NDF : 323.1/8

Left Out: 29.171 ± 0.088 χ^2/NDF : 18974.7/24

Right Out: 48.148 ± 0.399 χ^2/NDF : 637.9/10

Left In: 28.667 ± 0.089 χ^2/NDF : 16847.2/22

Left: 28.923 ± 0.063 χ^2/NDF : 35838.1/47

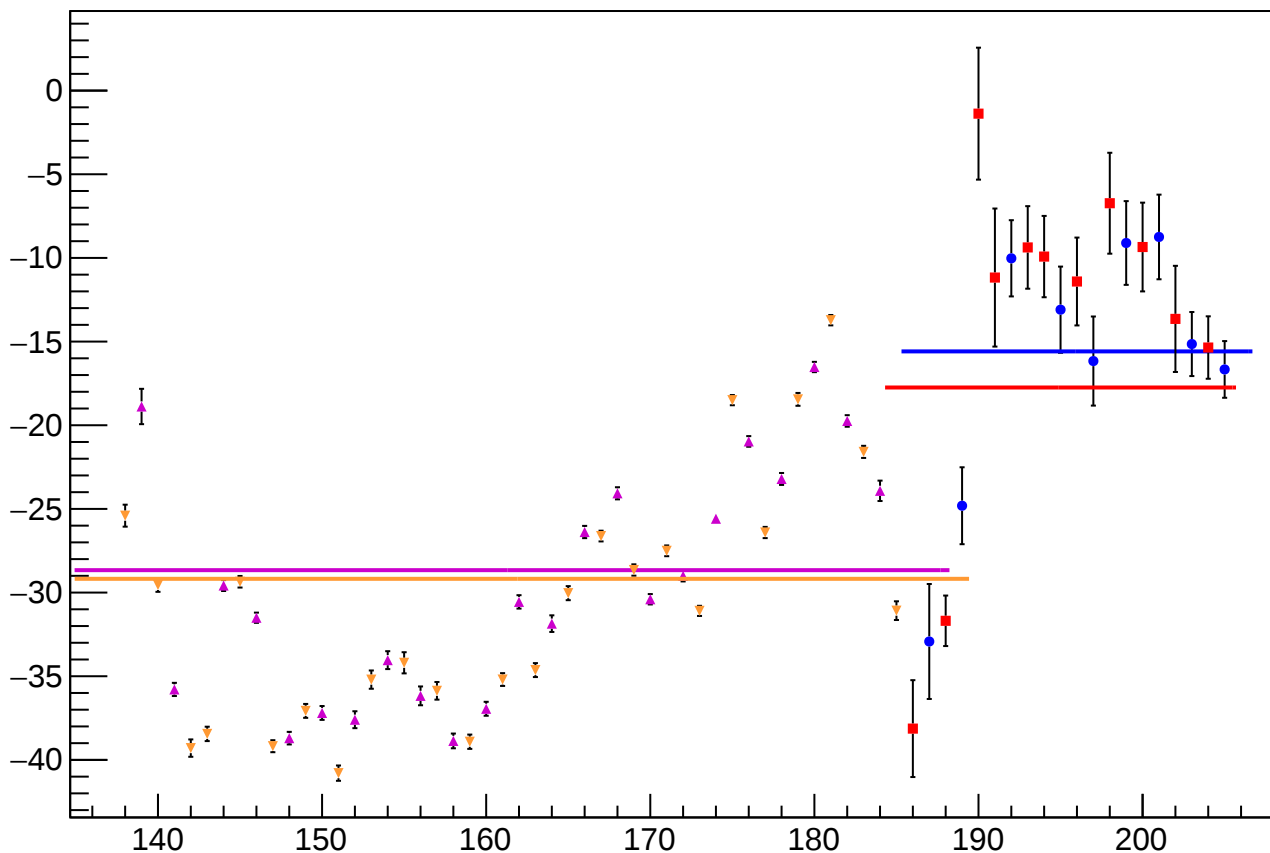
Right: 46.422 ± 0.301 χ^2/NDF : 1004.9/19

In: 29.224 ± 0.088 χ^2/NDF : 18253.1/31

Out: 30.049 ± 0.086 χ^2/NDF : 21774.6/35

All: 29.645 ± 0.061 χ^2/NDF : 40073.0/67

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -15.587 ± 0.768 $\chi^2/\text{NDF}: 63.0/8$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -17.744 ± 0.746 $\chi^2/\text{NDF}: 209.1/10$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$

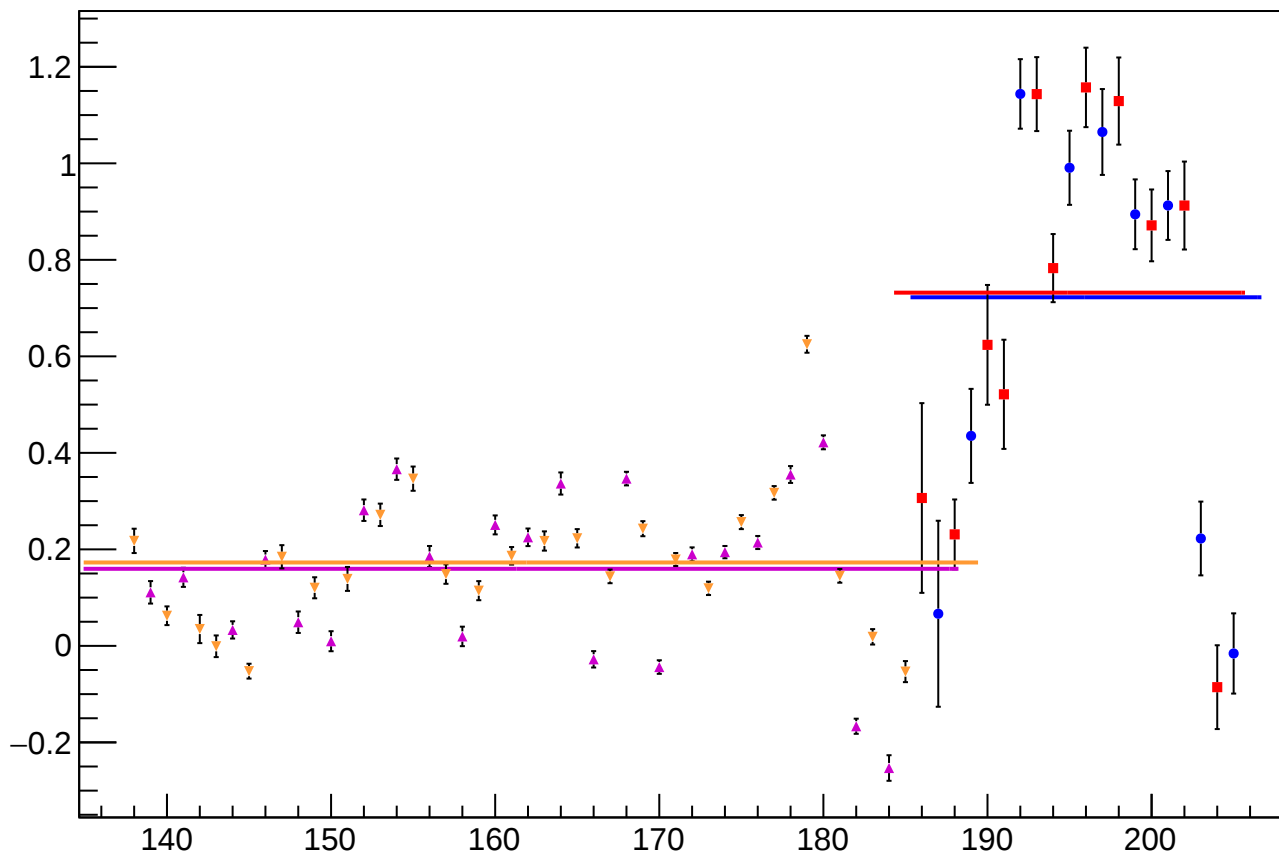
Right: -16.697 ± 0.535 $\chi^2/\text{NDF}: 276.1/19$

In: -28.521 ± 0.079 $\chi^2/\text{NDF}: 7019.9/31$

Out: -29.054 ± 0.078 $\chi^2/\text{NDF}: 9523.1/35$

All: -28.793 ± 0.056 $\chi^2/\text{NDF}: 16566.0/67$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.722 $\pm$ 0.027 χ^2 /NDF: 215.9/8

Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24

Right Out: 0.732 $\pm$ 0.026 χ^2 /NDF: 228.3/10

Left In: 0.160 $\pm$ 0.004 χ^2 /NDF:2057.9/22

Left: 0.166 $\pm$ 0.003 χ^2 /NDF: 3542.9/47

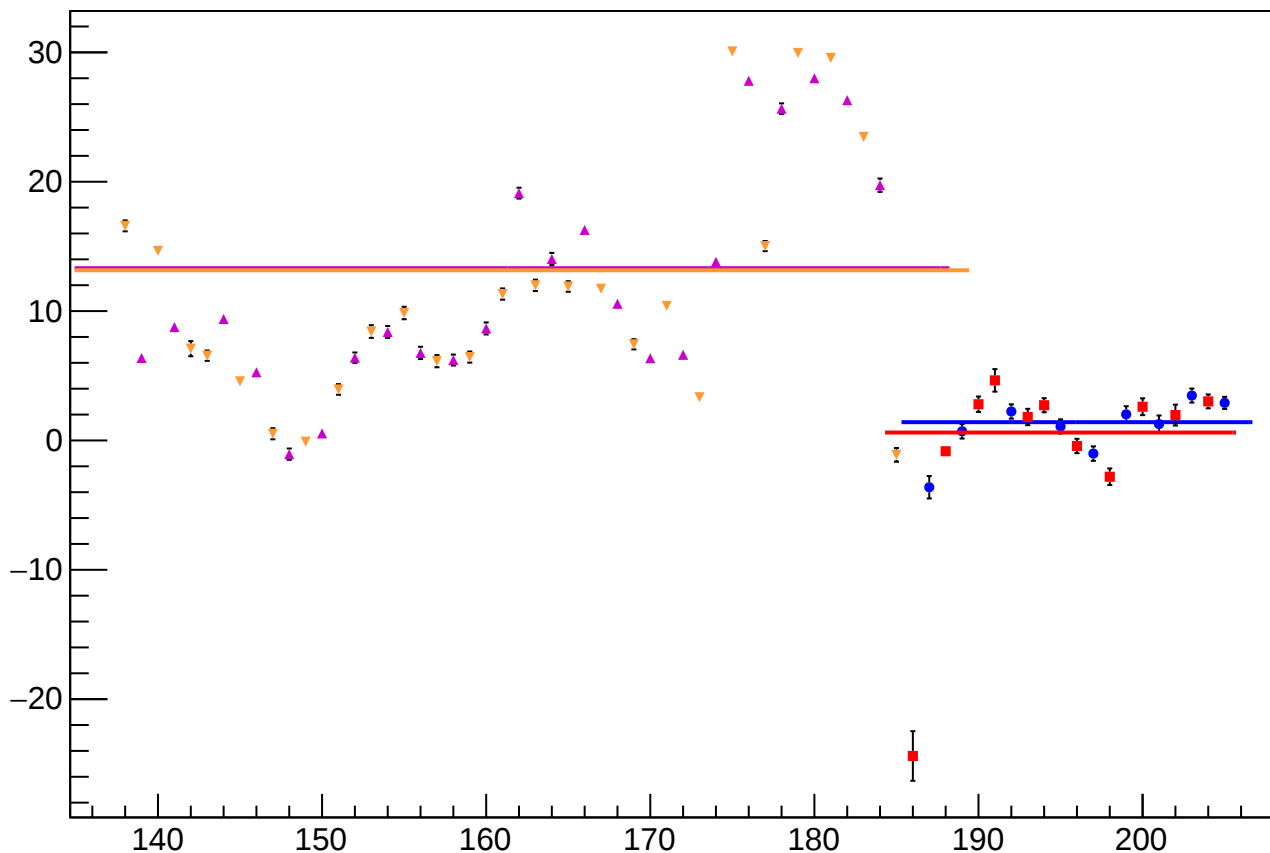
Right: 0.727 $\pm$ 0.019 χ^2 /NDF: 444.2/19

In: 0.169 $\pm$ 0.004 χ^2 /NDF:2685.8/31

Out: 0.183 $\pm$ 0.004 χ^2 /NDF:2147.2/35

All: 0.176 $\pm$ 0.003 χ^2 /NDF: 4840.1/67

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.412 $\pm$ 0.192 χ^2 /NDF: 82.1/8

Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24

Right Out: 0.613 $\pm$ 0.167 χ^2 /NDF: 313.6/10

Left In: 13.315 $\pm$ 0.077 χ^2 /NDF:13977.7/22

Left: 13.232 $\pm$ 0.054 χ^2 /NDF: 31059.6/47

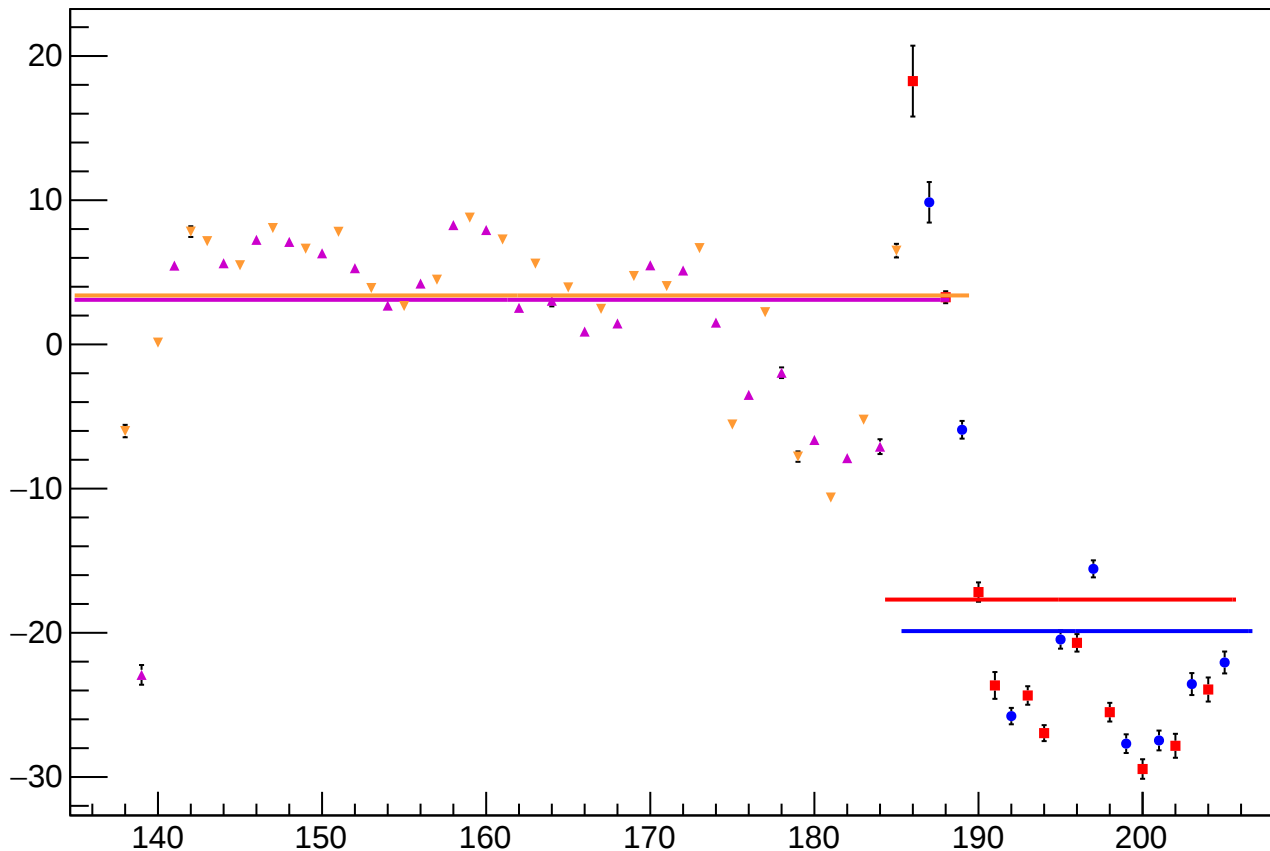
Right: 0.956 $\pm$ 0.126 χ^2 /NDF: 405.5/19

In: 11.668 $\pm$ 0.072 χ^2 /NDF:17356.6/31

Out: 11.037 $\pm$ 0.069 χ^2 /NDF:22083.4/35

All: 11.339 $\pm$ 0.050 χ^2 /NDF: 39480.6/67

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -19.881 ± 0.226 $\chi^2/\text{NDF}: 1425.1/8$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -17.695 ± 0.199 $\chi^2/\text{NDF}: 3877.7/10$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

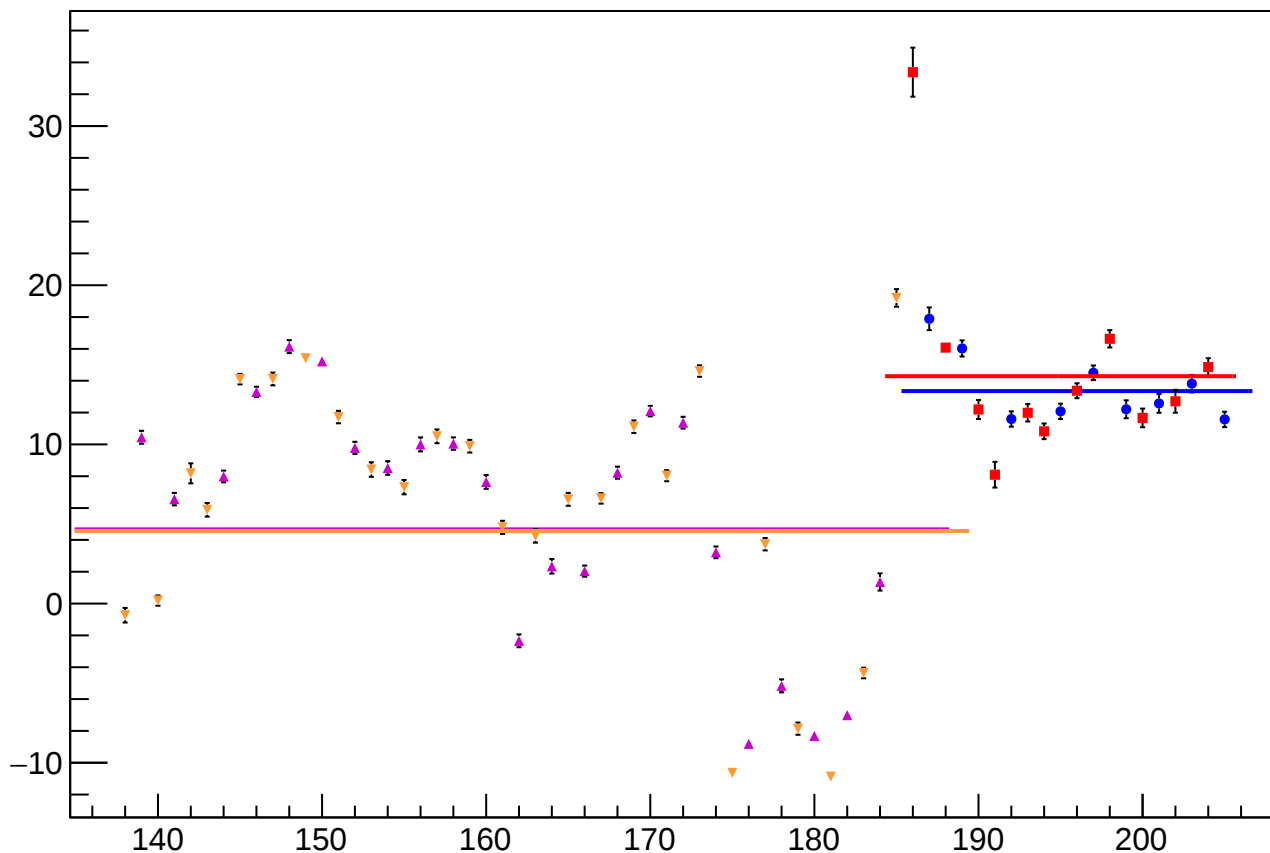
Right: -18.650 ± 0.149 $\chi^2/\text{NDF}: 5355.4/19$

In: 1.554 ± 0.059 $\chi^2/\text{NDF}: 18159.5/31$

Out: 1.727 ± 0.056 $\chi^2/\text{NDF}: 22307.4/35$

All: 1.644 ± 0.040 $\chi^2/\text{NDF}: 40471.4/67$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.348+/-0.175 χ^2/NDF : 114.8/8

Left Out: 4.561+/-0.075 χ^2/NDF : 13592.1/24

Right Out: 14.285+/-0.145 χ^2/NDF : 401.8/10

Left In: 4.662+/-0.077 χ^2/NDF : 11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

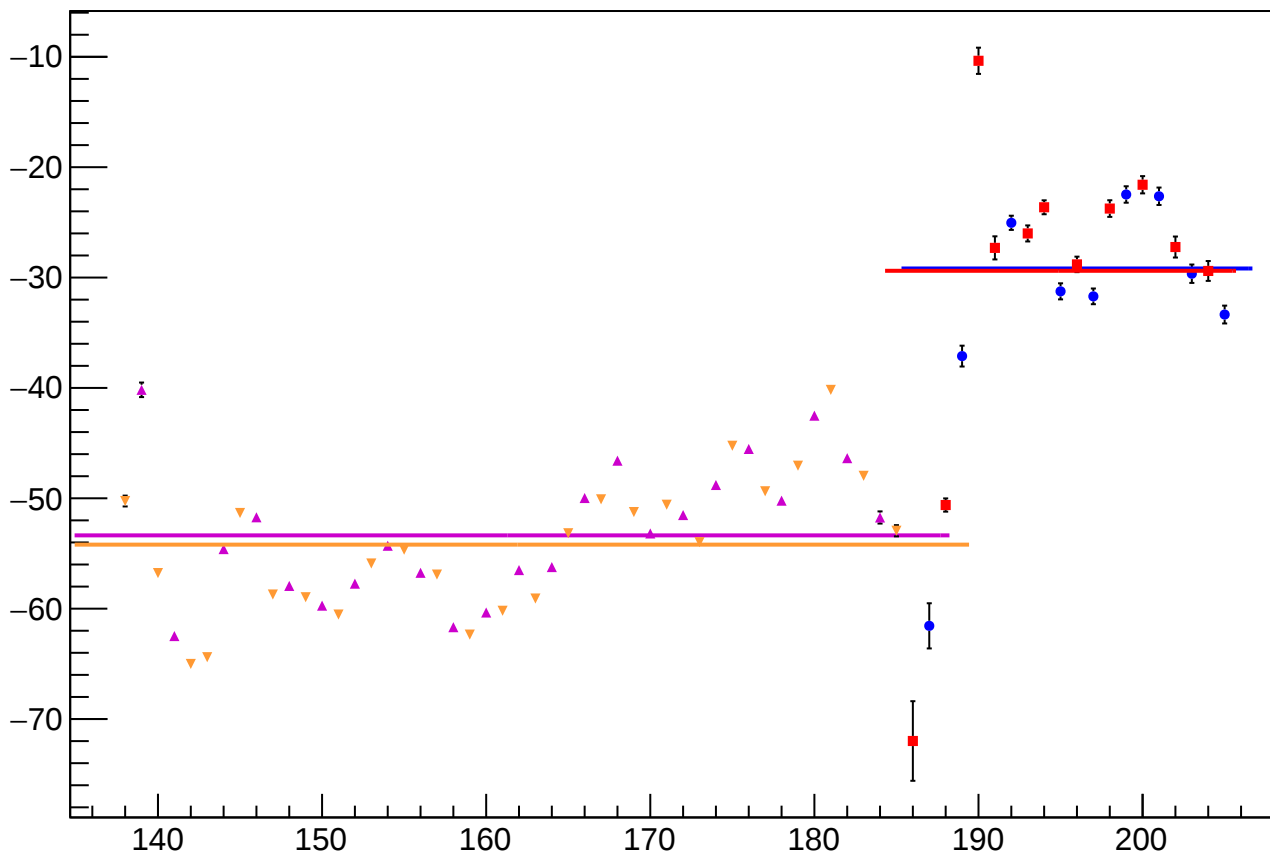
Right: 13.902+/-0.112 χ^2/NDF : 533.5/19

In: 6.068+/-0.070 χ^2/NDF : 13466.4/31

Out: 6.620+/-0.067 χ^2/NDF : 17517.7/35

All: 6.358+/-0.048 χ^2/NDF : 31016.5/67

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



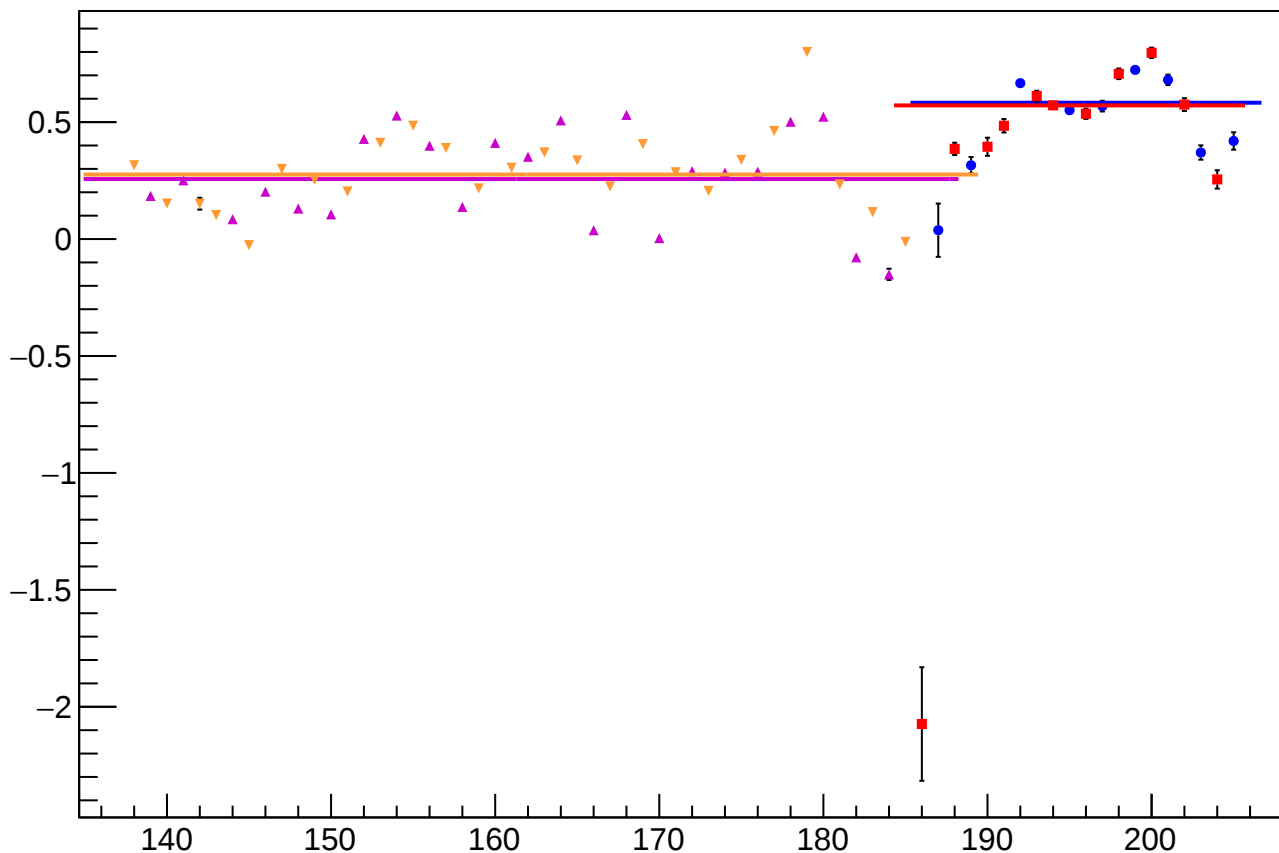
Right In: -29.178 ± 0.267 $\chi^2/\text{NDF}: 559.8/8$
 Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$
 Right Out: -29.387 ± 0.245 $\chi^2/\text{NDF}: 1921.3/10$
 Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$
 Right: -29.291 ± 0.181 $\chi^2/\text{NDF}: 2481.5/19$

In: -51.867 ± 0.066 $\chi^2/\text{NDF}: 15134.0/31$
 Out: -52.502 ± 0.064 $\chi^2/\text{NDF}: 19928.2/35$

All: -52.196 ± 0.046 $\chi^2/\text{NDF}: 35109.6/67$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.583 $\pm$ 0.009 χ^2 /NDF: 230.2/8

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.571 $\pm$ 0.008 χ^2 /NDF: 410.4/10

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

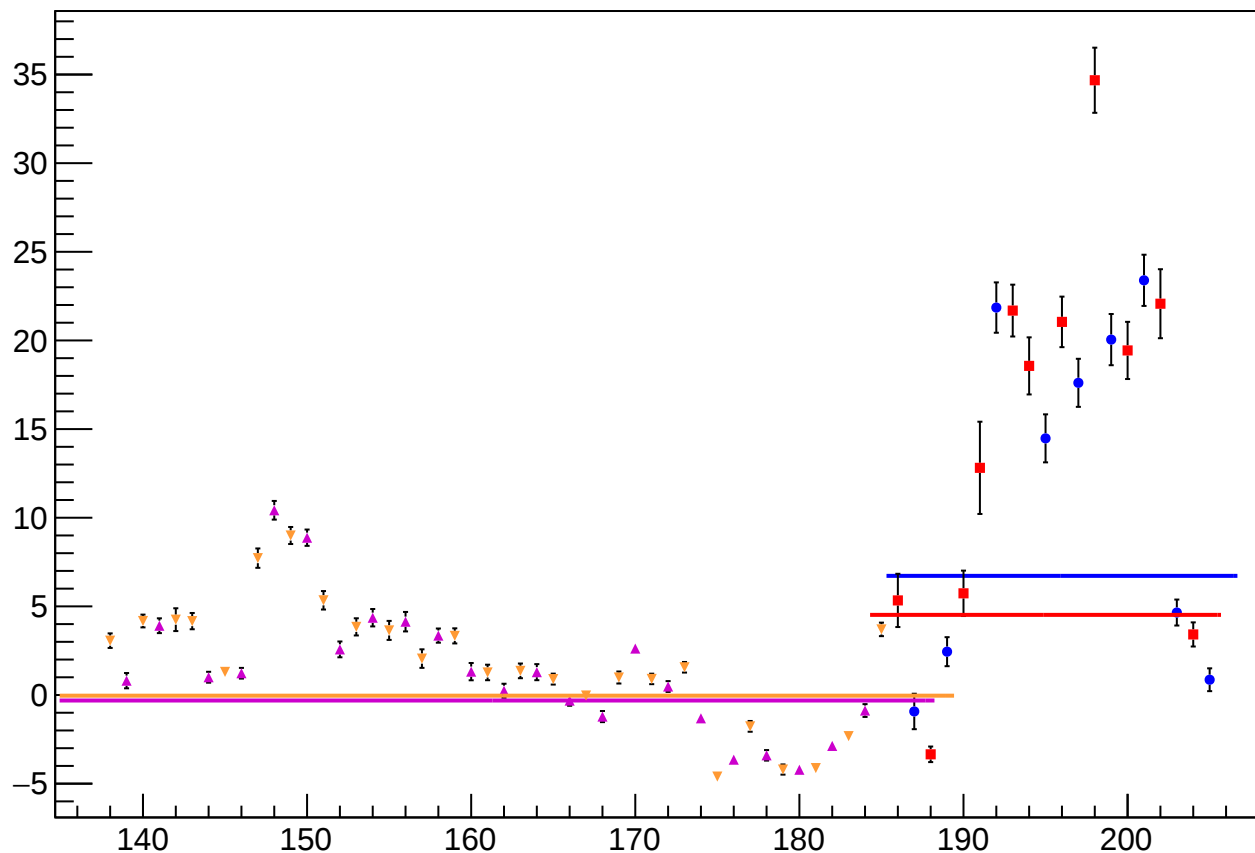
Right: 0.577 $\pm$ 0.006 χ^2 /NDF: 641.5/19

In: 0.294 $\pm$ 0.003 χ^2 /NDF:5114.2/31

Out: 0.315 $\pm$ 0.003 χ^2 /NDF:4274.9/35

All: 0.305 $\pm$ 0.002 χ^2 /NDF: 9415.9/67

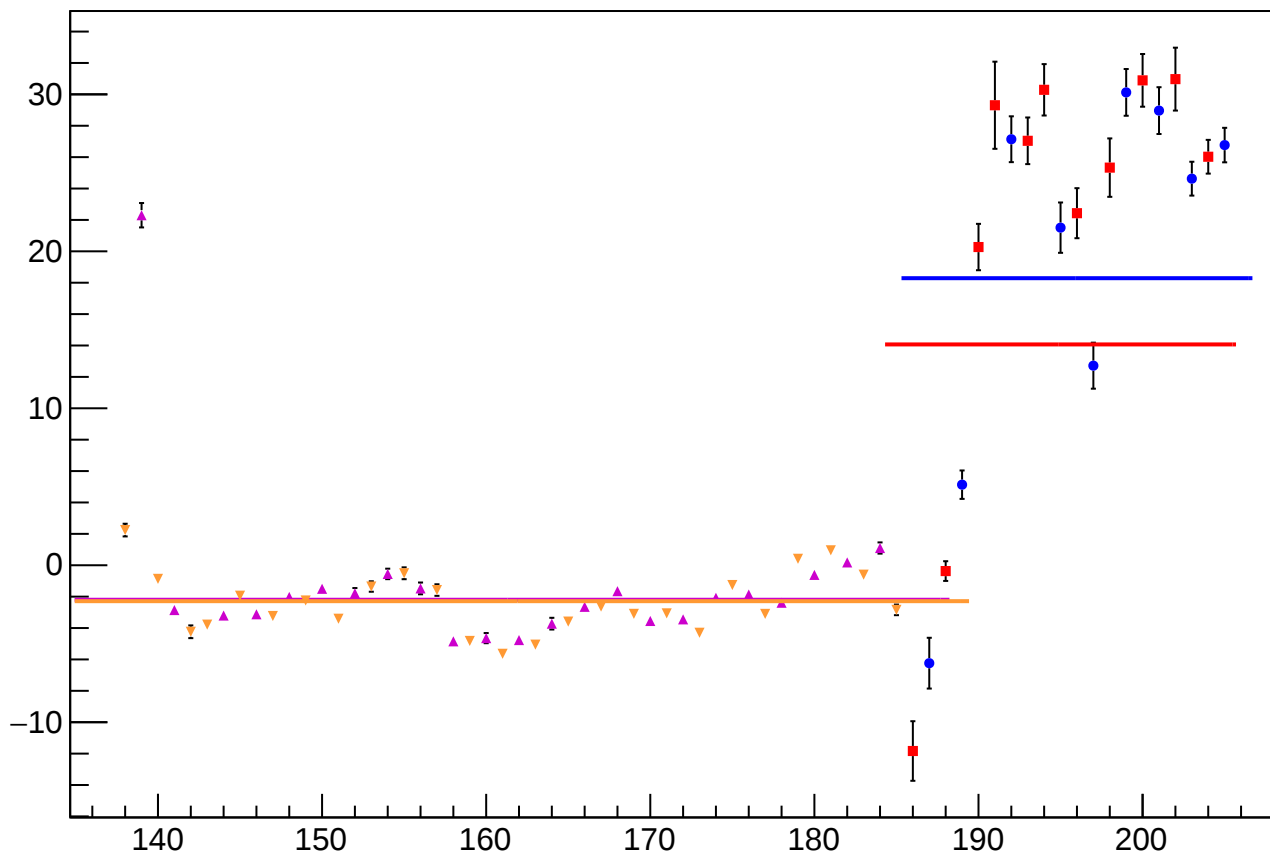
reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.721 ± 0.328 $\chi^2/\text{NDF}: 606.0/8$
 Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$
 Right Out: 4.520 ± 0.304 $\chi^2/\text{NDF}: 1119.8/10$
 Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$
 Right: 5.538 ± 0.223 $\chi^2/\text{NDF}: 1750.0/19$
 In: -0.025 ± 0.066 $\chi^2/\text{NDF}: 3298.3/31$
 Out: 0.168 ± 0.064 $\chi^2/\text{NDF}: 3972.4/35$
 All: 0.074 ± 0.046 $\chi^2/\text{NDF}: 7275.2/67$

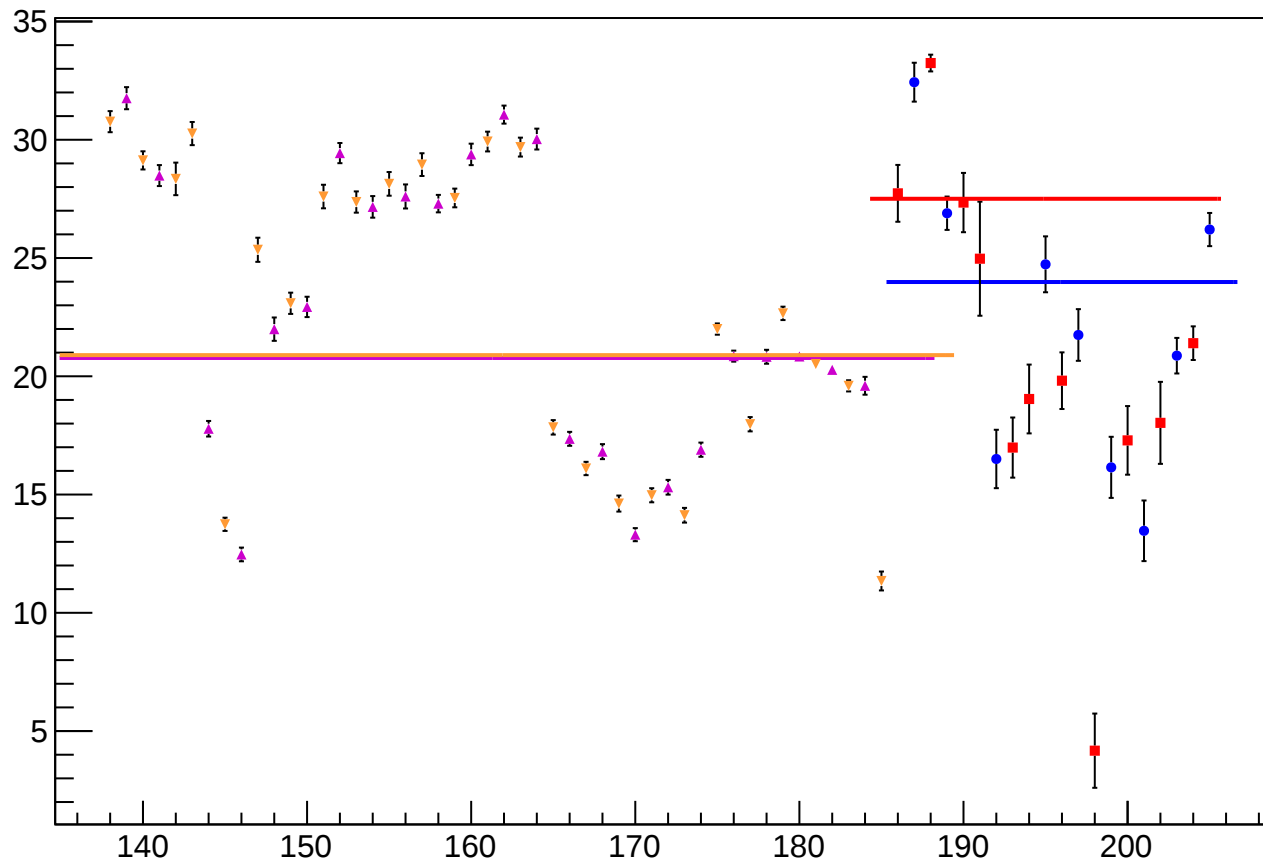
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.288 ± 0.426 $\chi^2/\text{NDF}: 704.8/8$
 Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$
 Right Out: 14.068 ± 0.396 $\chi^2/\text{NDF}: 1296.9/10$
 Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$
 Right: 16.025 ± 0.290 $\chi^2/\text{NDF}: 2054.4/19$
 In: -1.861 ± 0.055 $\chi^2/\text{NDF}: 4654.9/31$
 Out: -1.988 ± 0.054 $\chi^2/\text{NDF}: 4110.3/35$
 All: -1.925 ± 0.038 $\chi^2/\text{NDF}: 8768.0/67$

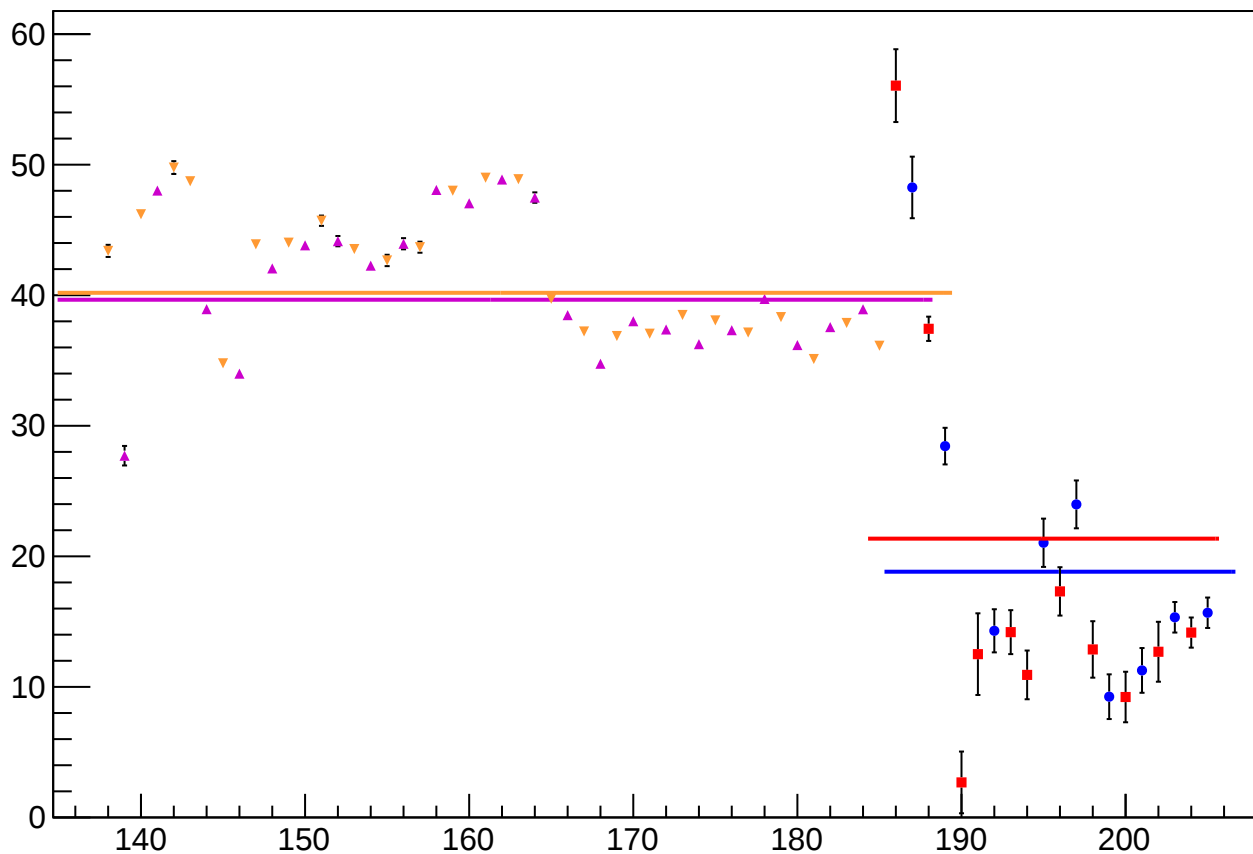
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 23.986 $\pm$ 0.306 χ^2 /NDF: 295.3/8
 Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24
 Right Out: 27.505 $\pm$ 0.263 χ^2 /NDF: 781.8/10
 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: 26.007 $\pm$ 0.199 χ^2 /NDF: 1153.4/19
 In: 20.924 $\pm$ 0.066 χ^2 /NDF:6328.5/31
 Out: 21.294 $\pm$ 0.065 χ^2 /NDF:8031.1/35
 All: 21.112 $\pm$ 0.046 χ^2 /NDF: 14375.6/67

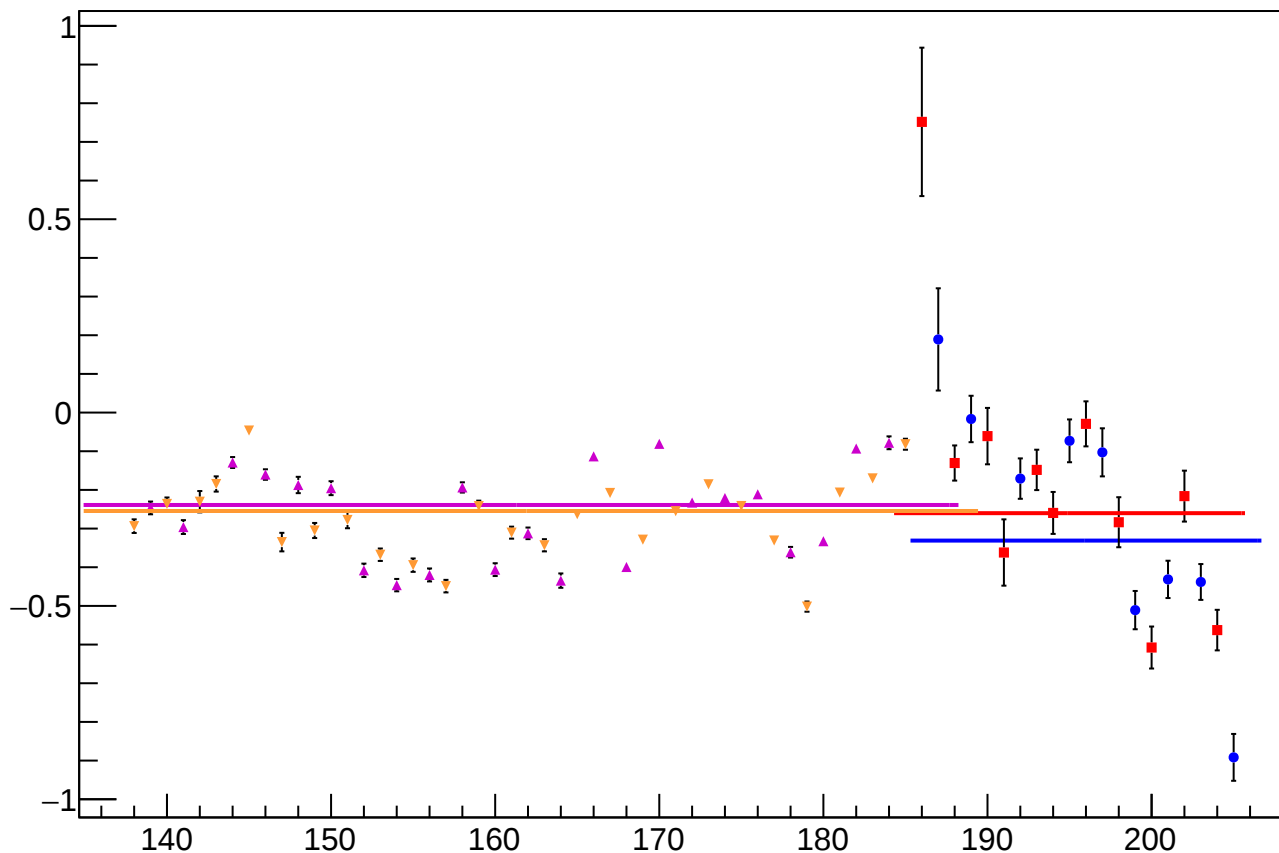
reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 18.823 ± 0.513 χ^2/NDF : 286.7/8
 Left Out: 40.186 ± 0.060 χ^2/NDF : 5932.7/24
 Right Out: 21.355 ± 0.505 χ^2/NDF : 685.8/10
 Left In: 39.655 ± 0.061 χ^2/NDF : 5298.6/22

Left: 39.925 ± 0.043 χ^2/NDF : 11269.2/47
 Right: 20.110 ± 0.360 χ^2/NDF : 984.8/19
 In: 39.361 ± 0.061 χ^2/NDF : 7208.5/31
 Out: 39.921 ± 0.060 χ^2/NDF : 7988.3/35
 All: 39.646 ± 0.043 χ^2/NDF : 15239.6/67

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.331 ± 0.019 χ^2/NDF : 196.0/8

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.260 ± 0.018 χ^2/NDF : 139.9/10

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

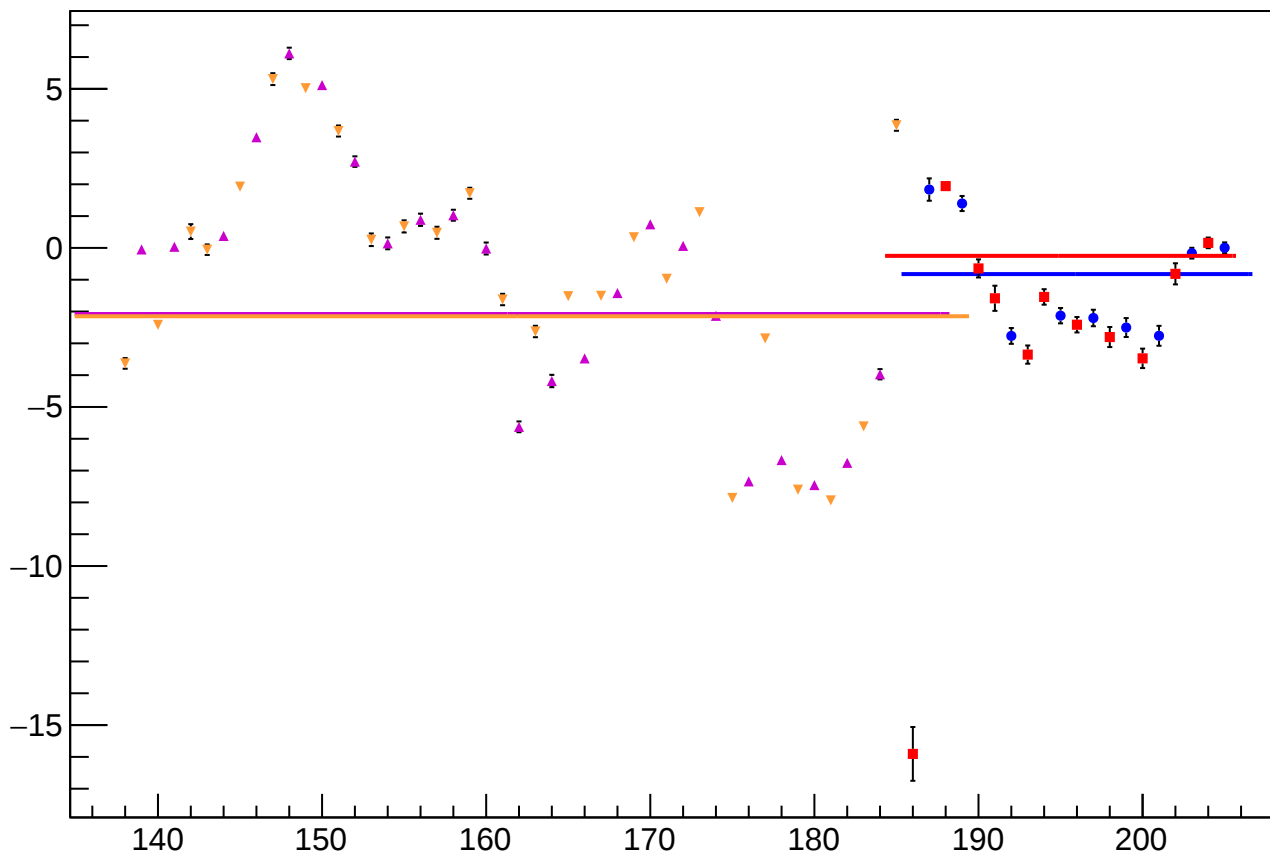
Right: -0.295 ± 0.013 χ^2/NDF : 343.3/19

In: -0.241 ± 0.003 χ^2/NDF : 1970.2/31

Out: -0.255 ± 0.003 χ^2/NDF : 1560.4/35

All: -0.248 ± 0.002 χ^2/NDF : 3543.2/67

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

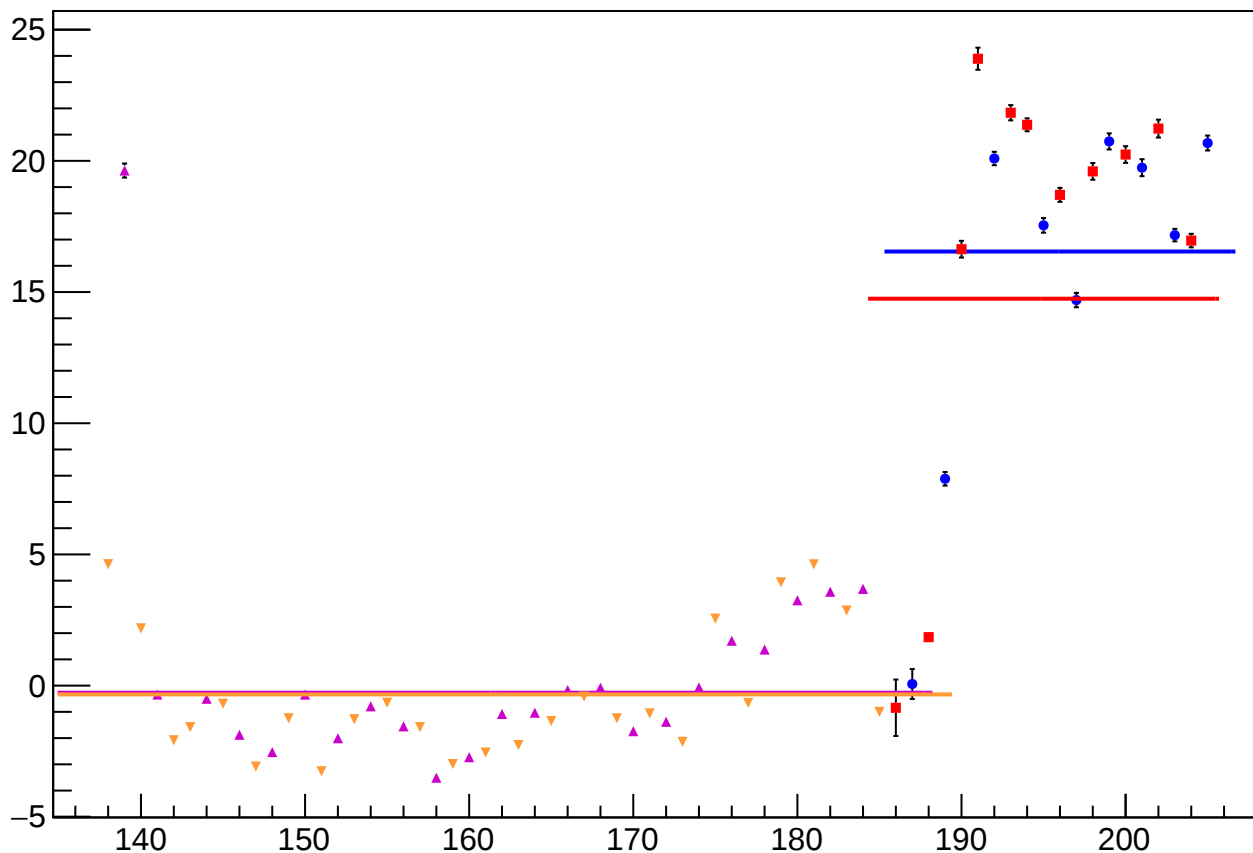


Right In: -0.823 ± 0.078 χ^2/NDF : 372.6/8
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.250 ± 0.068 χ^2/NDF : 1166.6/10
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.499 ± 0.051 χ^2/NDF : 1569.9/19
 In: -1.951 ± 0.025 χ^2/NDF : 23852.8/31
 Out: -1.914 ± 0.024 χ^2/NDF : 26381.7/35

All: -1.932 ± 0.017 χ^2/NDF : 50235.7/67

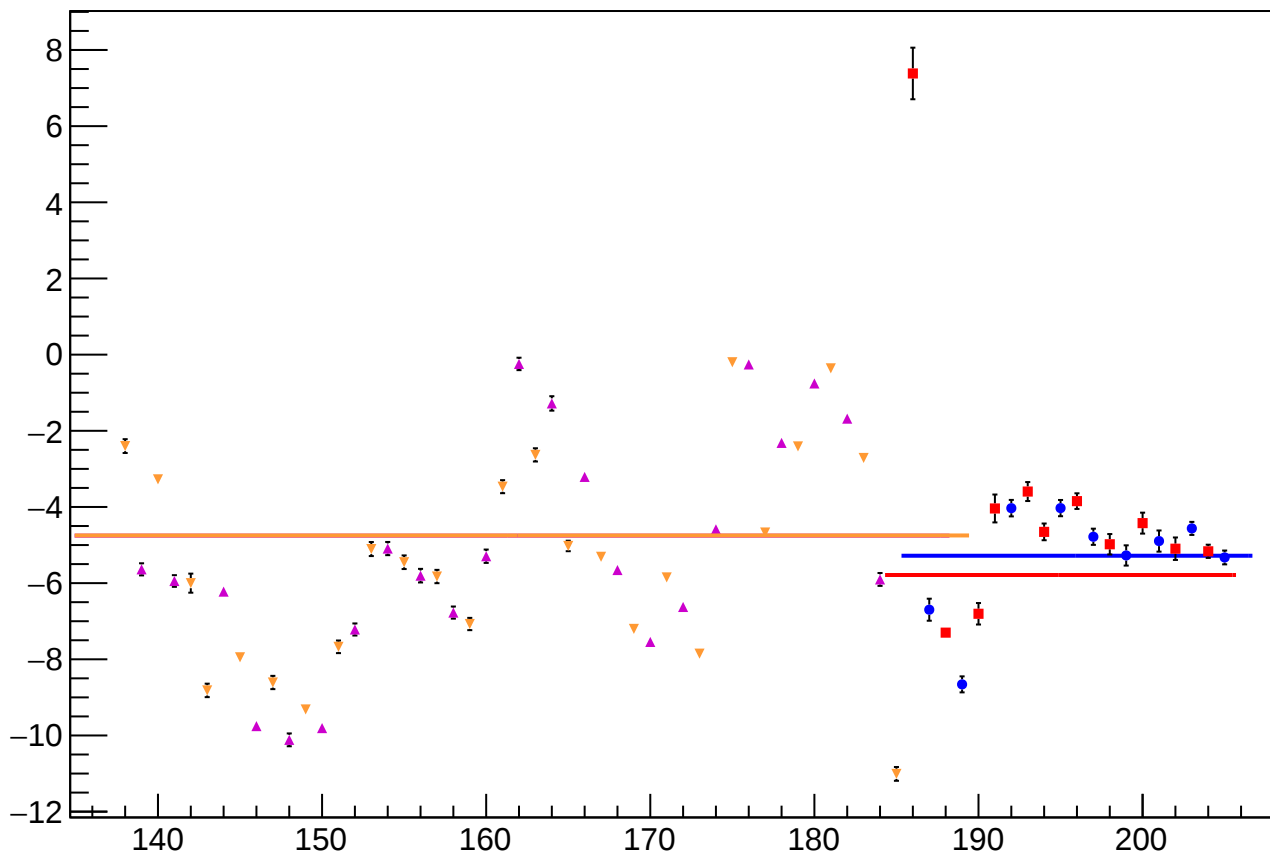
reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.544 ± 0.096 $\chi^2/\text{NDF}: 2704.9/8$
 Left Out: -0.335 ± 0.021 $\chi^2/\text{NDF}: 12596.1/24$
 Right Out: 14.747 ± 0.084 $\chi^2/\text{NDF}: 9597.8/10$
 Left In: -0.269 ± 0.021 $\chi^2/\text{NDF}: 13323.1/22$

Left: -0.303 ± 0.015 $\chi^2/\text{NDF}: 25924.2/47$
 Right: 15.534 ± 0.063 $\chi^2/\text{NDF}: 12501.2/19$
 In: 0.500 ± 0.020 $\chi^2/\text{NDF}: 45523.3/31$
 Out: 0.511 ± 0.020 $\chi^2/\text{NDF}: 52312.3/35$
 All: 0.506 ± 0.014 $\chi^2/\text{NDF}: 97835.7/67$

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.280 ± 0.072 χ^2/NDF : 374.7/8
 Left Out: -4.748 ± 0.026 χ^2/NDF : 13289.8/24
 Right Out: -5.786 ± 0.060 χ^2/NDF : 948.8/10
 Left In: -4.753 ± 0.026 χ^2/NDF : 14119.2/22

Left: -4.751 ± 0.018 χ^2/NDF : 27409.0/47

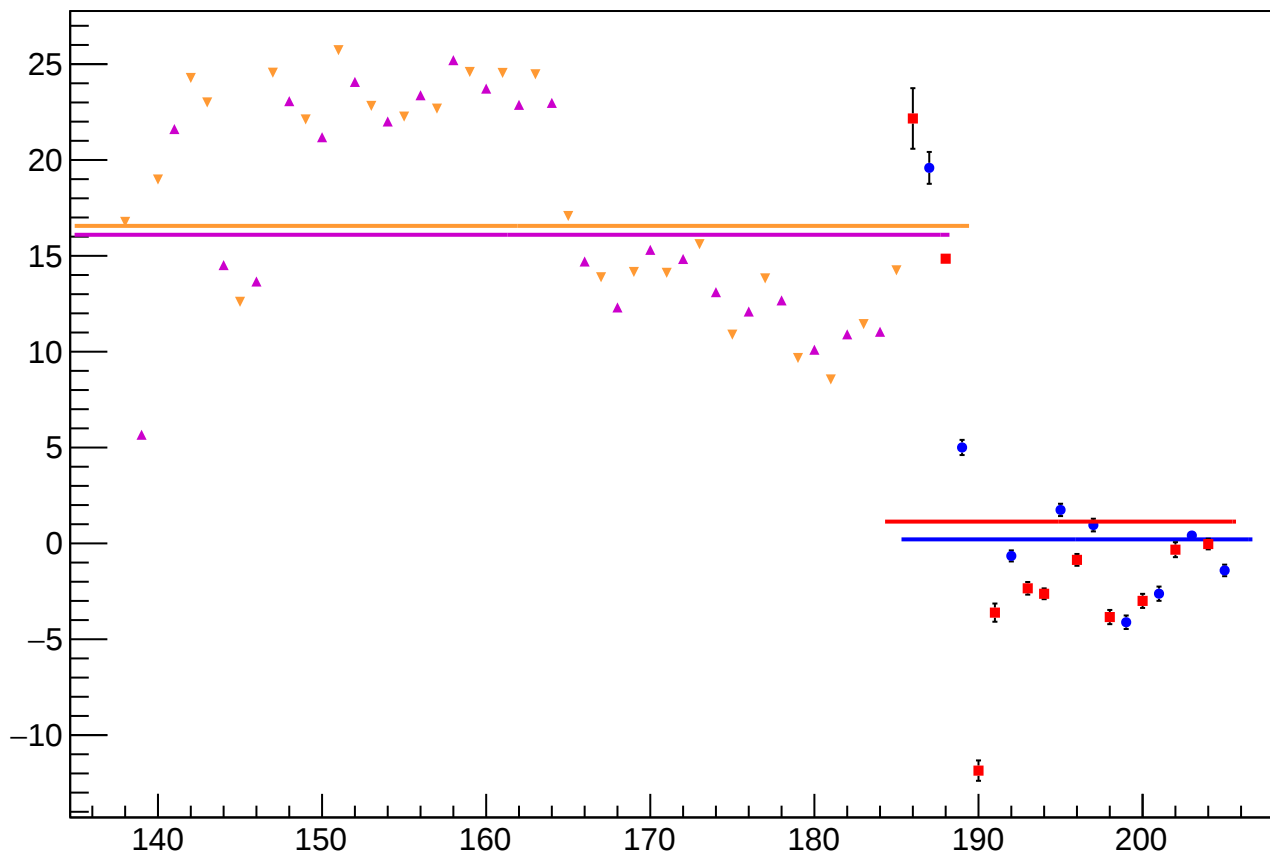
Right: -5.581 ± 0.046 χ^2/NDF : 1352.7/19

In: -4.814 ± 0.025 χ^2/NDF : 14541.0/31

Out: -4.912 ± 0.024 χ^2/NDF : 14493.7/35

All: -4.865 ± 0.017 χ^2/NDF : 29042.9/67

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.210 ± 0.112 $\chi^2/\text{NDF}: 964.9/8$

Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$

Right Out: 1.137 ± 0.104 $\chi^2/\text{NDF}: 4981.5/10$

Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$

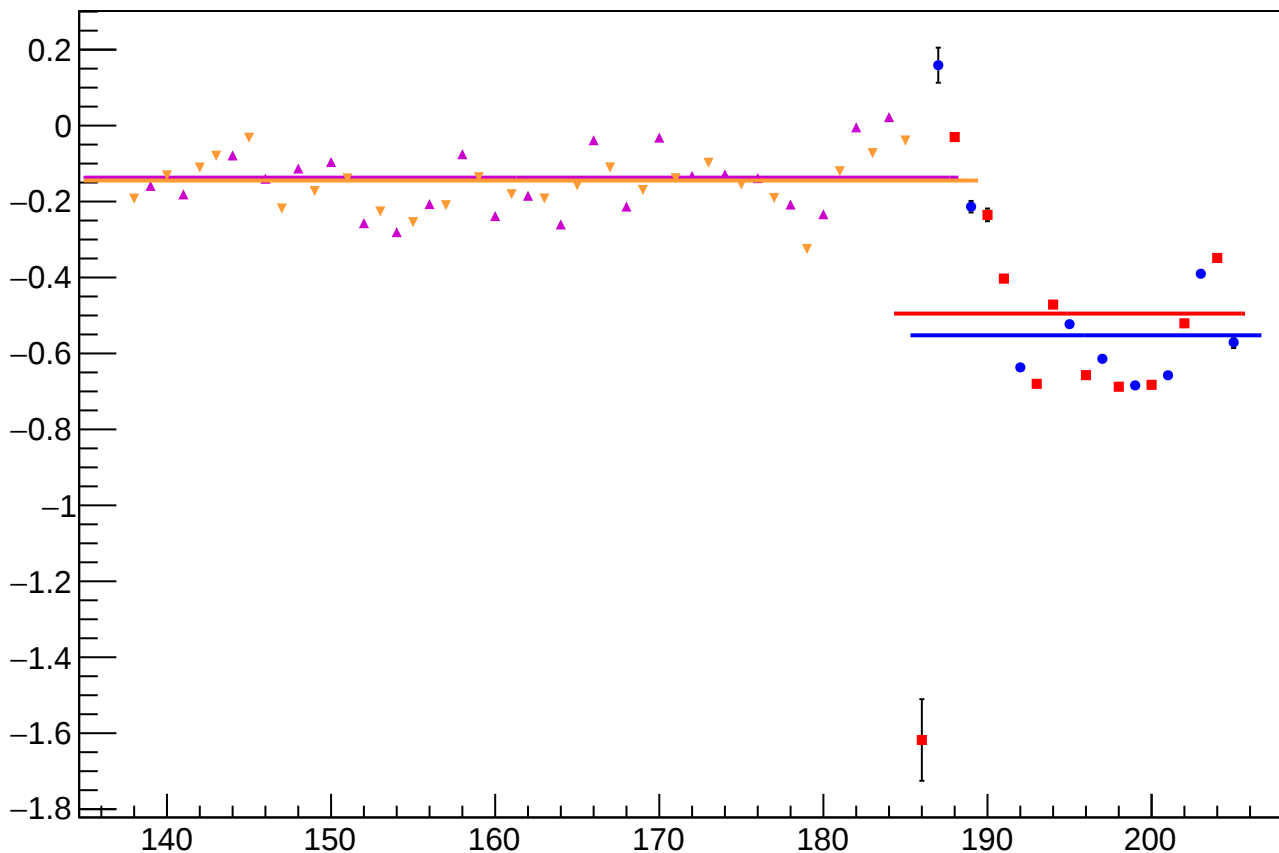
Right: 0.710 ± 0.076 $\chi^2/\text{NDF}: 5983.3/19$

In: 15.426 ± 0.023 $\chi^2/\text{NDF}: 62554.3/31$

Out: 15.830 ± 0.023 $\chi^2/\text{NDF}: 79940.8/35$

All: 15.632 ± 0.016 $\chi^2/\text{NDF}: 142651.7/67$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.552 ± 0.004 χ^2/NDF : 1418.8/8

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.495 ± 0.003 χ^2/NDF : 3799.1/10

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

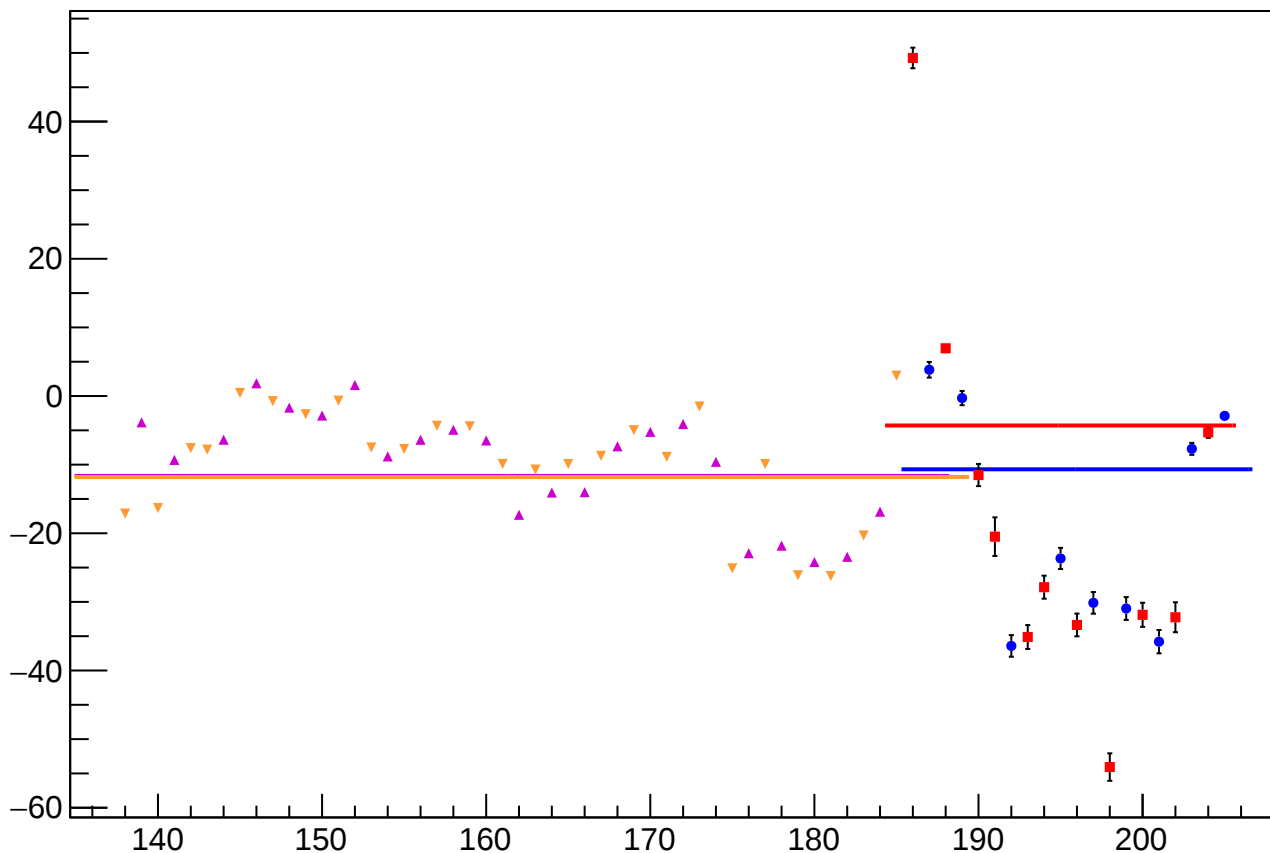
Right: -0.521 ± 0.003 χ^2/NDF : 5344.9/19

In: -0.168 ± 0.001 χ^2/NDF : 18065.1/31

Out: -0.175 ± 0.001 χ^2/NDF : 17241.9/35

All: -0.172 ± 0.001 χ^2/NDF : 35331.5/67

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.678 ± 0.382 $\chi^2/\text{NDF}: 1246.5/8$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -4.292 ± 0.357 $\chi^2/\text{NDF}: 3618.3/10$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$

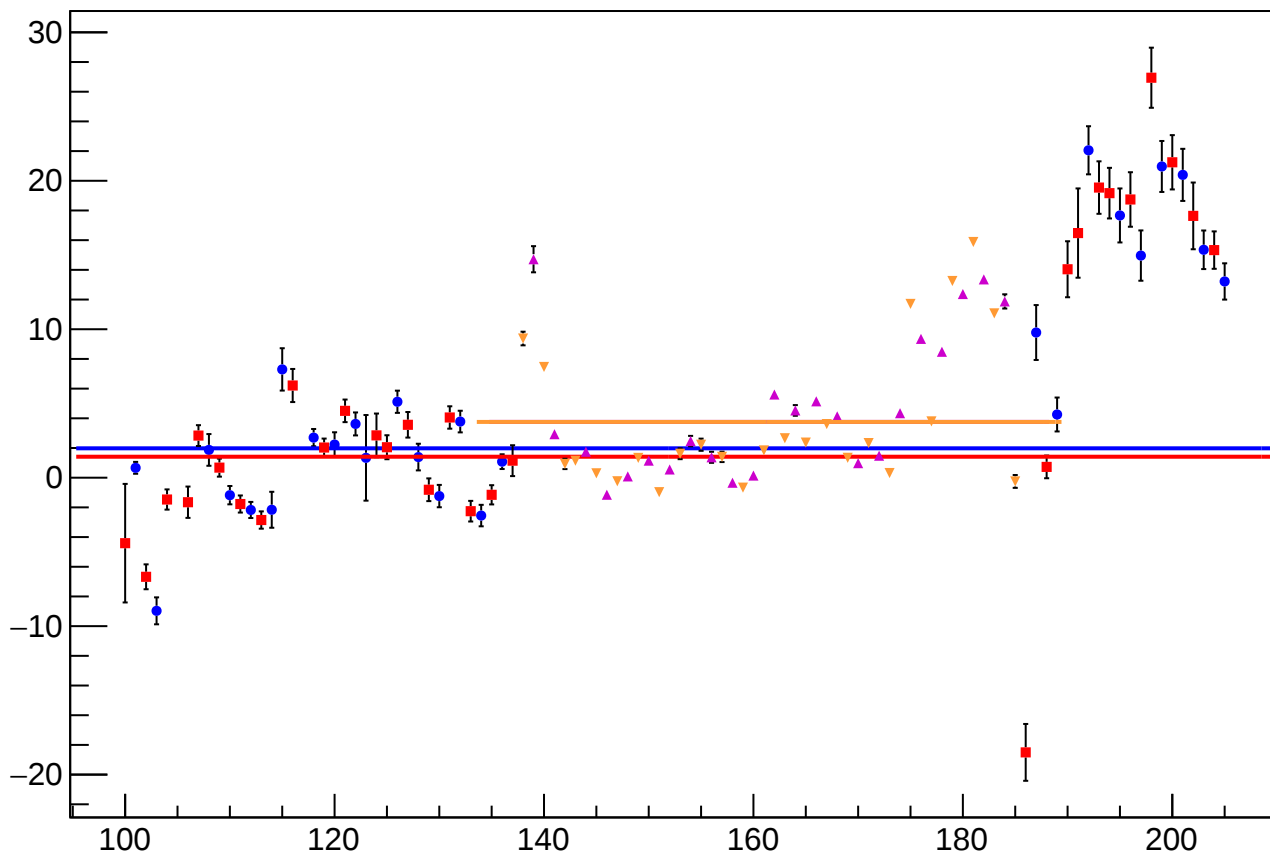
Right: -7.270 ± 0.261 $\chi^2/\text{NDF}: 5014.3/19$

In: -11.609 ± 0.070 $\chi^2/\text{NDF}: 15373.9/31$

Out: -11.521 ± 0.069 $\chi^2/\text{NDF}: 21353.1/35$

All: -11.564 ± 0.049 $\chi^2/\text{NDF}: 36727.8/67$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.979 ± 0.161 $\chi^2/\text{NDF}: 1089.4/25$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 1.413 ± 0.163 $\chi^2/\text{NDF}: 1252.0/29$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

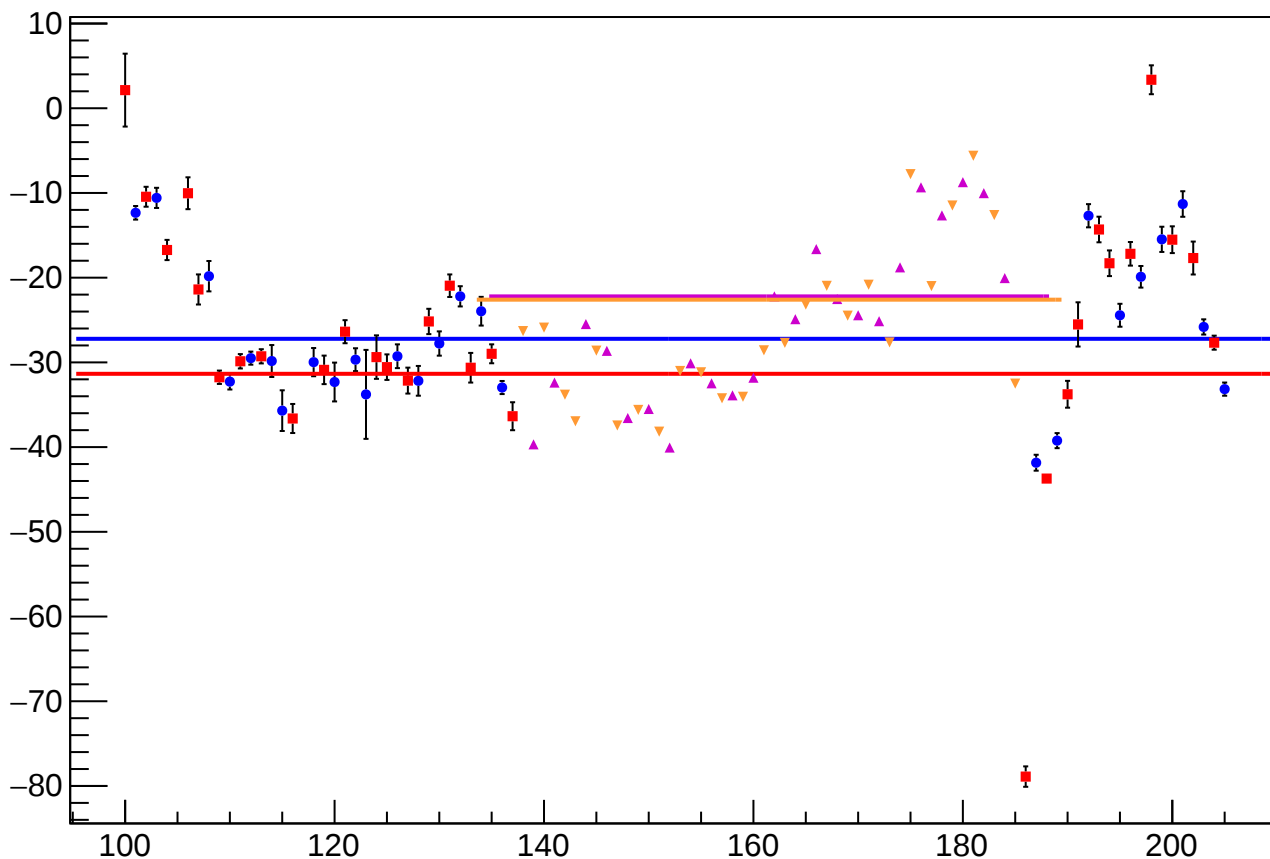
Right: 1.700 ± 0.115 $\chi^2/\text{NDF}: 2347.4/55$

In: 3.562 ± 0.053 $\chi^2/\text{NDF}: 6826.9/48$

Out: 3.514 ± 0.053 $\chi^2/\text{NDF}: 8886.9/54$

All: 3.538 ± 0.037 $\chi^2/\text{NDF}: 15714.2/103$

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -27.217 ± 0.230 $\chi^2/\text{NDF}: 1517.2/25$

Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$

Right Out: -31.348 ± 0.215 $\chi^2/\text{NDF}: 4077.6/29$

Left In: -22.209 ± 0.072 $\chi^2/\text{NDF}: 17627.4/22$

Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

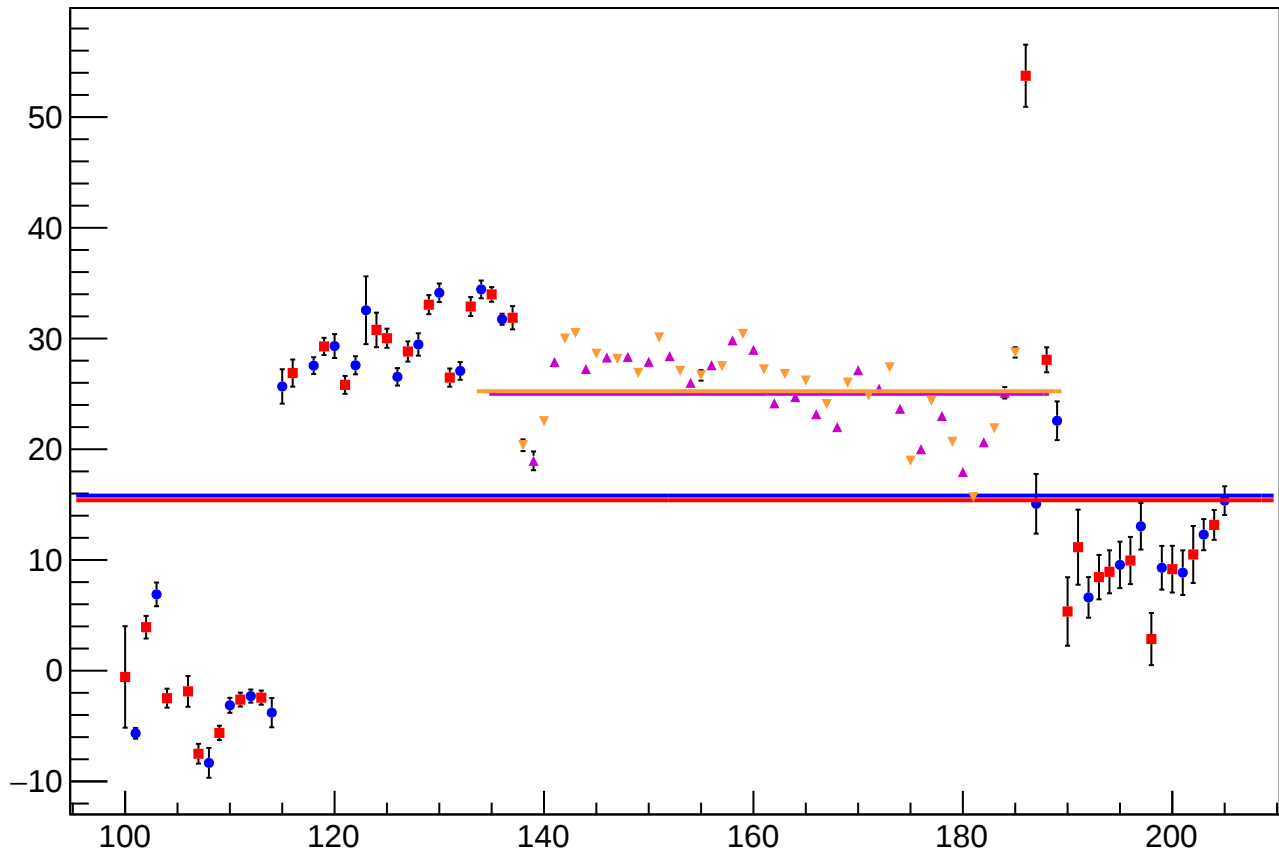
Right: -29.422 ± 0.157 $\chi^2/\text{NDF}: 5767.2/55$

In: -22.652 ± 0.068 $\chi^2/\text{NDF}: 19577.0/48$

Out: -23.453 ± 0.067 $\chi^2/\text{NDF}: 25507.9/54$

All: -23.059 ± 0.048 $\chi^2/\text{NDF}: 45154.8/103$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.814 $\pm$ 0.183 χ^2 /NDF: 7624.6/25

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.393 $\pm$ 0.187 χ^2 /NDF: 7660.8/29

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

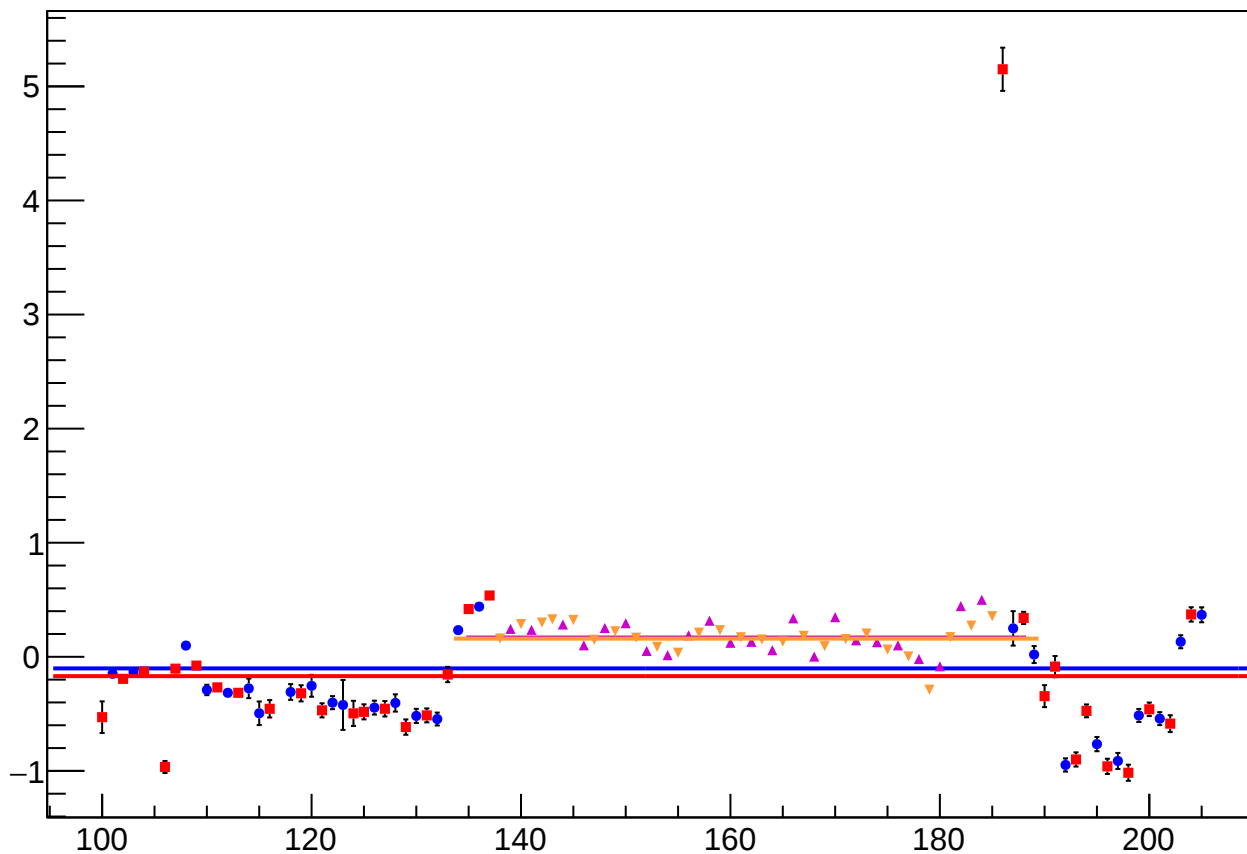
Right: 15.608 $\pm$ 0.131 χ^2 /NDF: 15288.0/55

In: 24.012 $\pm$ 0.060 χ^2 /NDF:12595.4/48

Out: 24.248 $\pm$ 0.059 χ^2 /NDF:13943.1/54

All: 24.132 $\pm$ 0.042 χ^2 /NDF: 26546.3/103

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.102 ± 0.009 χ^2/NDF : 1701.2/25

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.170 ± 0.009 χ^2/NDF : 2636.4/29

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

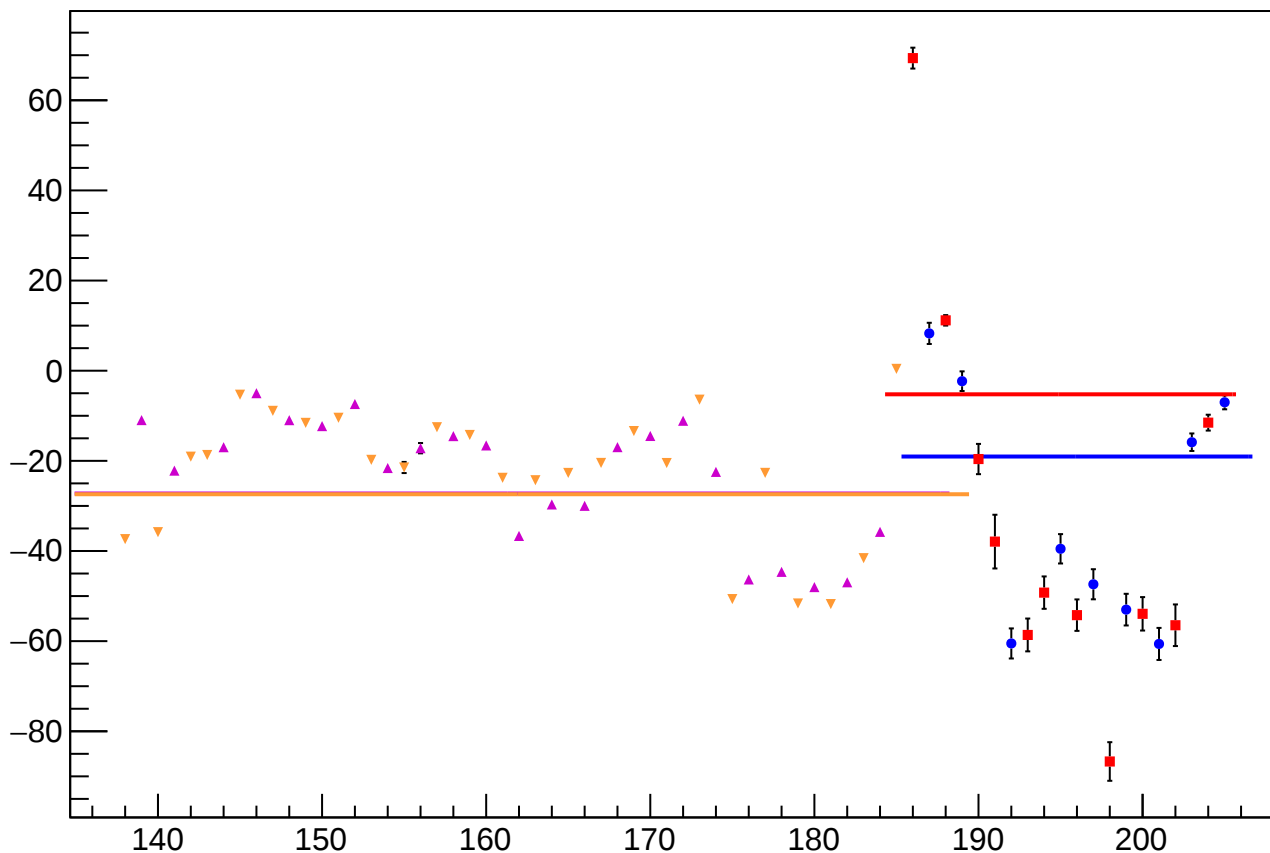
Right: -0.136 ± 0.007 χ^2/NDF : 4364.1/55

In: 0.145 ± 0.003 χ^2/NDF : 4886.2/48

Out: 0.131 ± 0.003 χ^2/NDF : 5645.3/54

All: 0.138 ± 0.002 χ^2/NDF : 10544.4/103

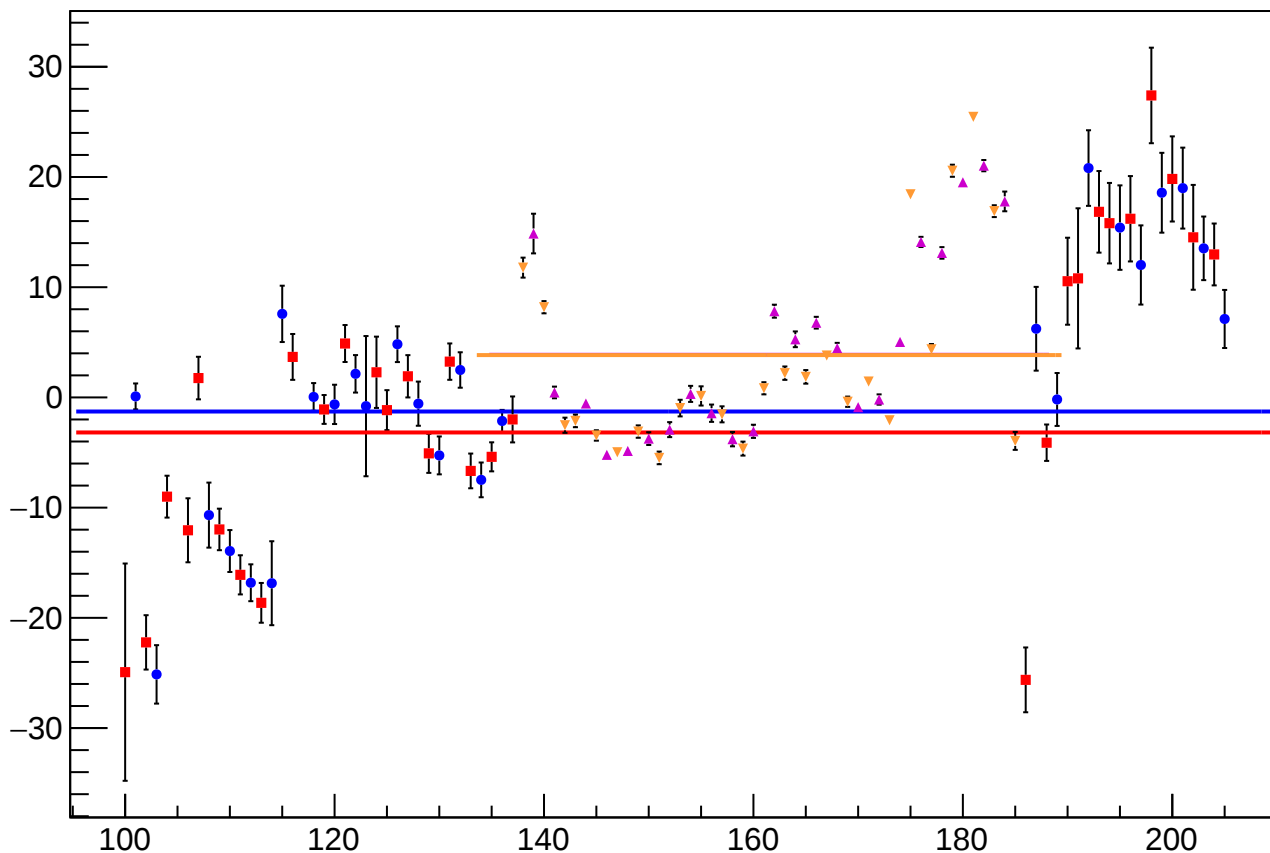
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.041 ± 0.816 $\chi^2/\text{NDF}: 752.4/8$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -5.237 ± 0.750 $\chi^2/\text{NDF}: 2516.1/10$
 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: -11.556 ± 0.552 $\chi^2/\text{NDF}: 3423.4/19$
 In: -27.011 ± 0.137 $\chi^2/\text{NDF}: 12155.6/31$
 Out: -26.694 ± 0.135 $\chi^2/\text{NDF}: 18211.8/35$
 All: -26.849 ± 0.096 $\chi^2/\text{NDF}: 30370.2/67$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.278 ± 0.384 χ^2/NDF : 473.7/25

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -3.180 ± 0.390 χ^2/NDF : 599.0/29

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

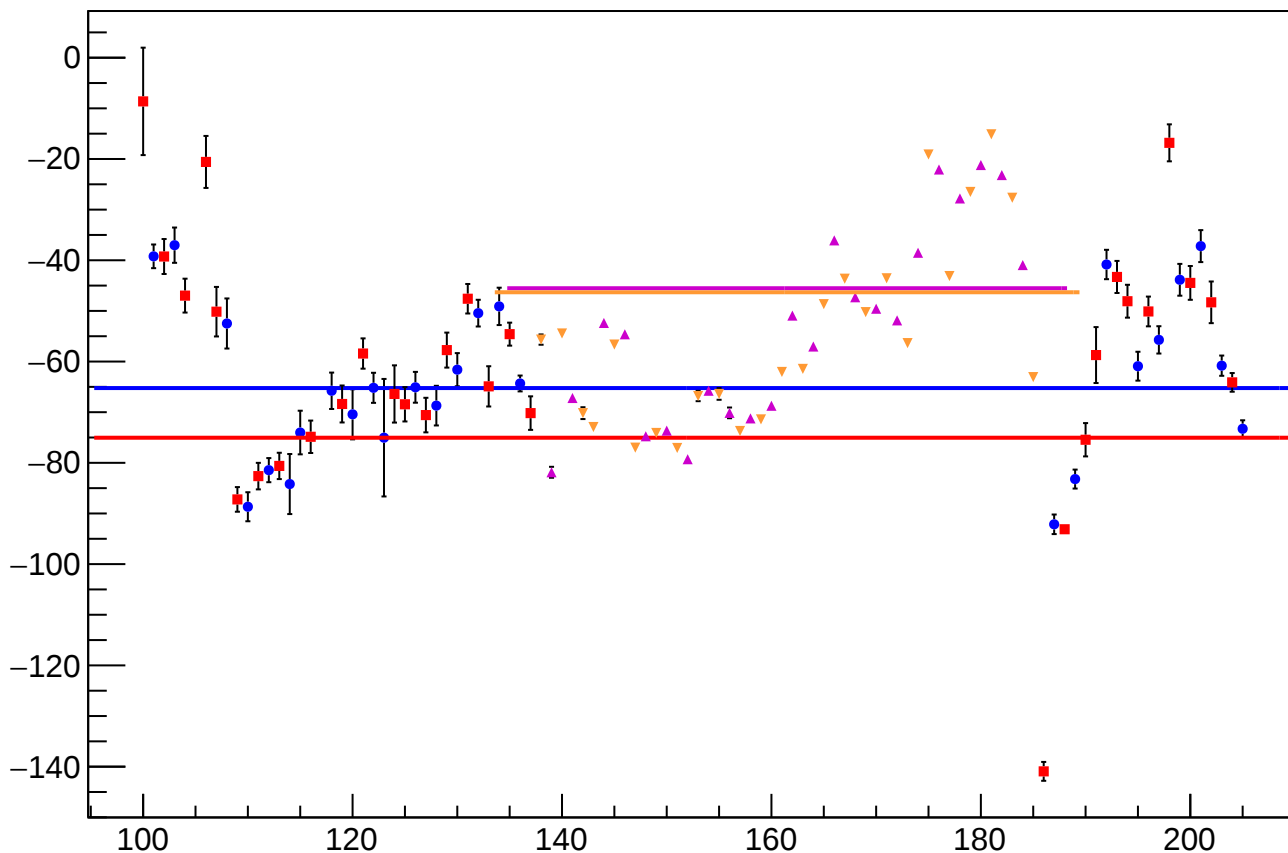
Right: -2.213 ± 0.274 χ^2/NDF : 1084.7/55

In: 3.468 ± 0.107 χ^2/NDF : 6063.5/48

Out: 3.332 ± 0.105 χ^2/NDF : 7838.0/54

All: 3.399 ± 0.075 χ^2/NDF : 13902.3/103

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.235 ± 0.530 χ^2/NDF : 903.0/25

Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24

Right Out: -75.042 ± 0.491 χ^2/NDF : 2928.4/29

Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47

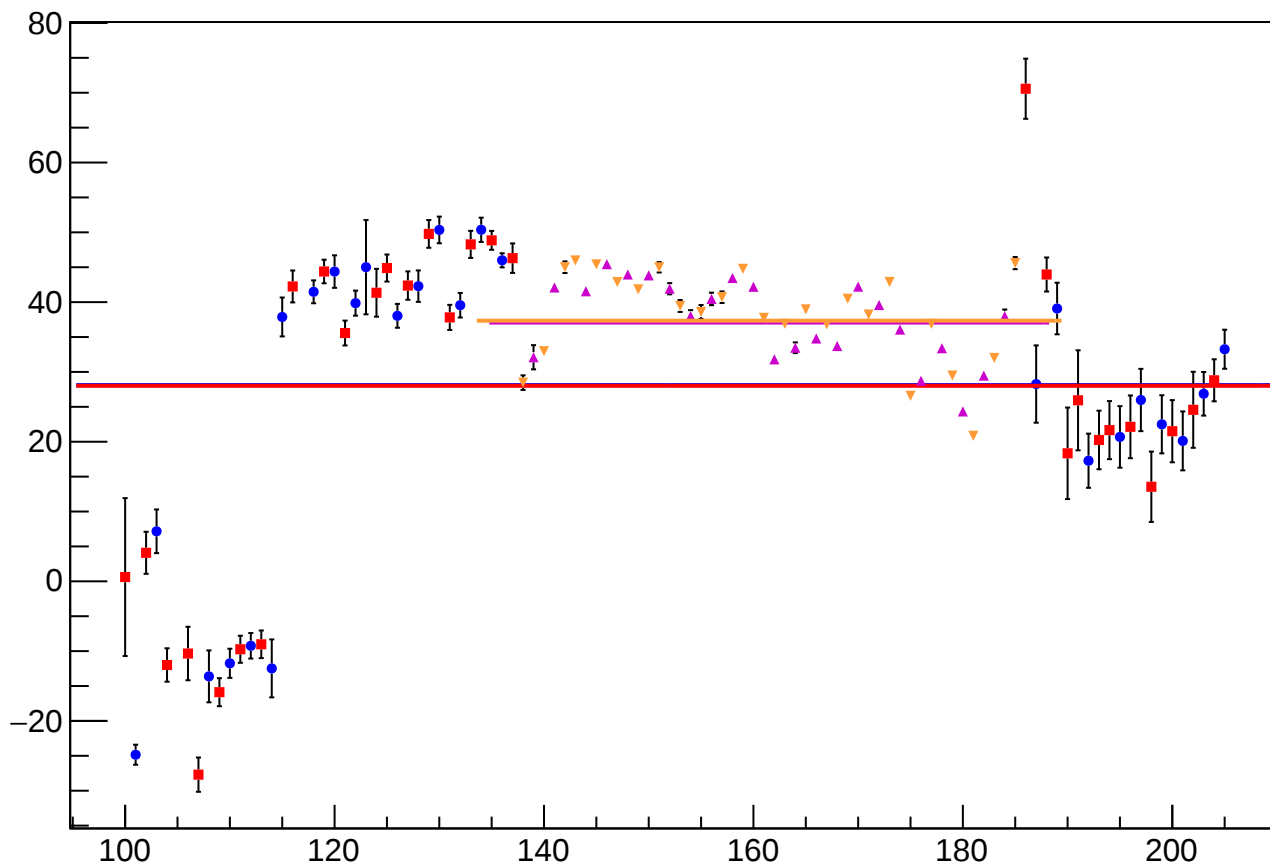
Right: -70.513 ± 0.360 χ^2/NDF : 4015.5/55

In: -46.803 ± 0.135 χ^2/NDF : 19721.1/48

Out: -48.417 ± 0.133 χ^2/NDF : 26232.9/54

All: -47.624 ± 0.095 χ^2/NDF : 46026.7/103

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.111 ± 0.433 $\chi^2/\text{NDF}: 3339.6/25$

Left Out: 37.340 ± 0.123 $\chi^2/\text{NDF}: 3149.1/24$

Right Out: 28.017 ± 0.447 $\chi^2/\text{NDF}: 3194.1/29$

Left In: 37.074 ± 0.125 $\chi^2/\text{NDF}: 2397.3/22$

Left: 37.209 ± 0.088 $\chi^2/\text{NDF}: 5548.7/47$

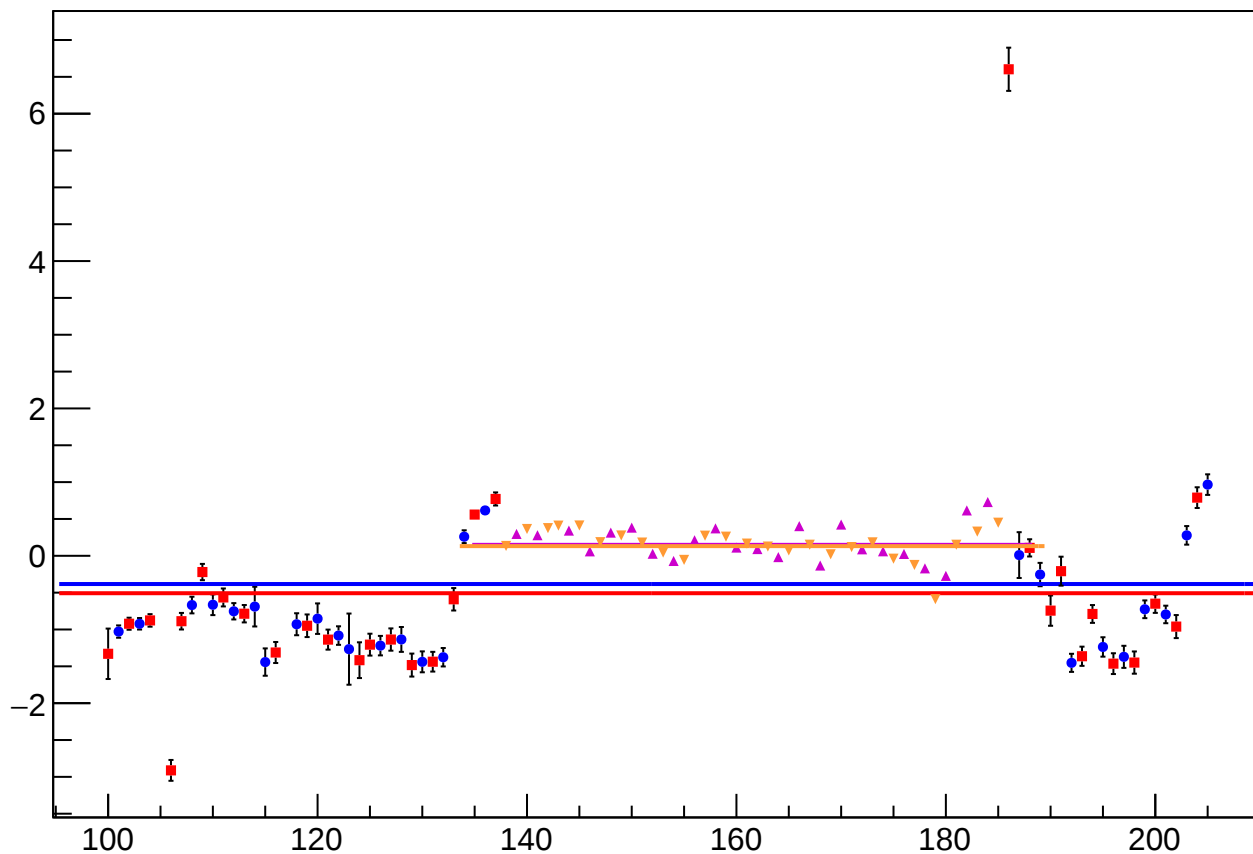
Right: 28.065 ± 0.311 $\chi^2/\text{NDF}: 6533.7/55$

In: 36.383 ± 0.120 $\chi^2/\text{NDF}: 6131.8/48$

Out: 36.684 ± 0.118 $\chi^2/\text{NDF}: 6748.1/54$

All: 36.536 ± 0.084 $\chi^2/\text{NDF}: 12883.0/103$

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.383 ± 0.022 χ^2/NDF : 1320.7/25

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.508 ± 0.022 χ^2/NDF : 2006.8/29

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

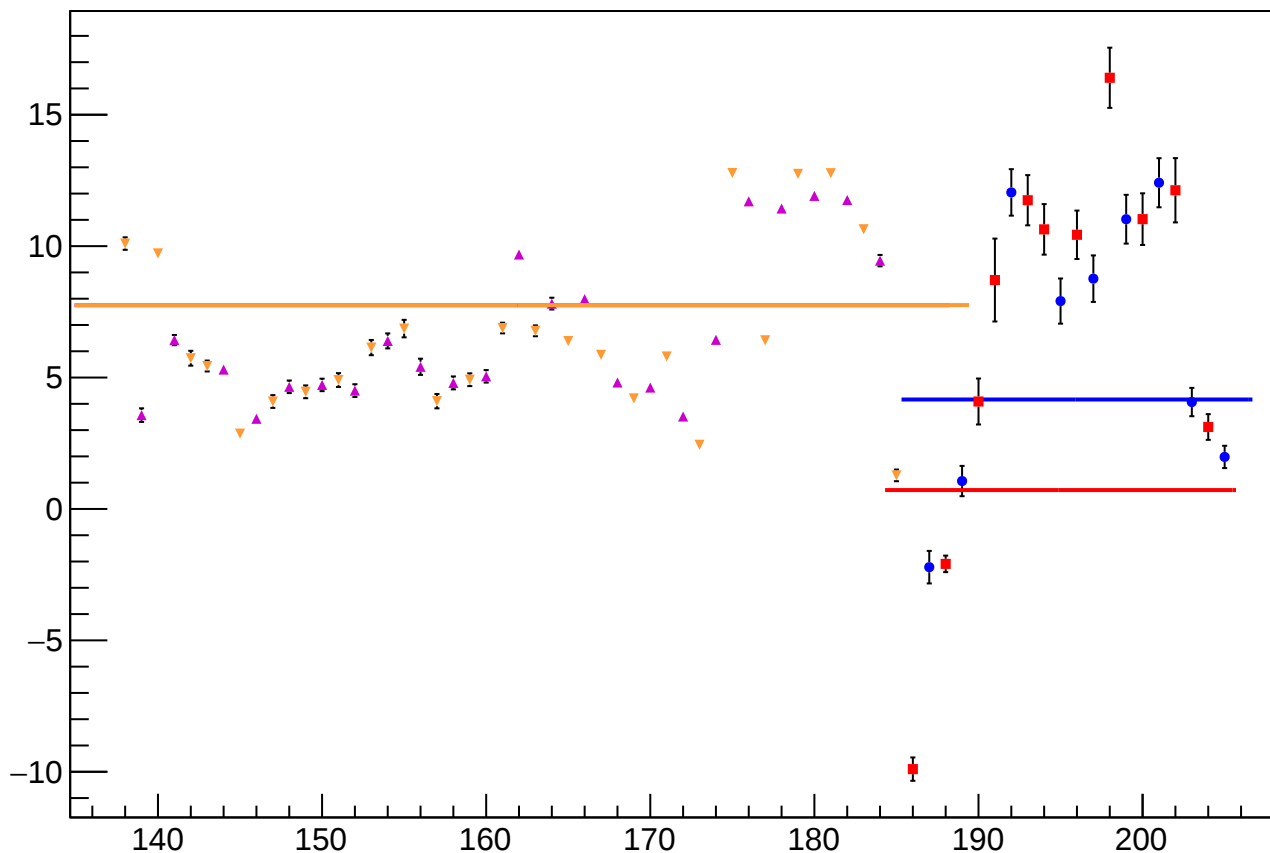
Right: -0.444 ± 0.016 χ^2/NDF : 3343.3/55

In: 0.115 ± 0.006 χ^2/NDF : 3673.6/48

Out: 0.093 ± 0.005 χ^2/NDF : 4206.7/54

All: 0.104 ± 0.004 χ^2/NDF : 7888.2/103

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.165 $\pm$ 0.219 χ^2 /NDF: 419.7/8

Left Out: 7.757 $\pm$ 0.034 χ^2 /NDF:11728.6/24

Right Out: 0.719 $\pm$ 0.193 χ^2 /NDF: 1451.1/10

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

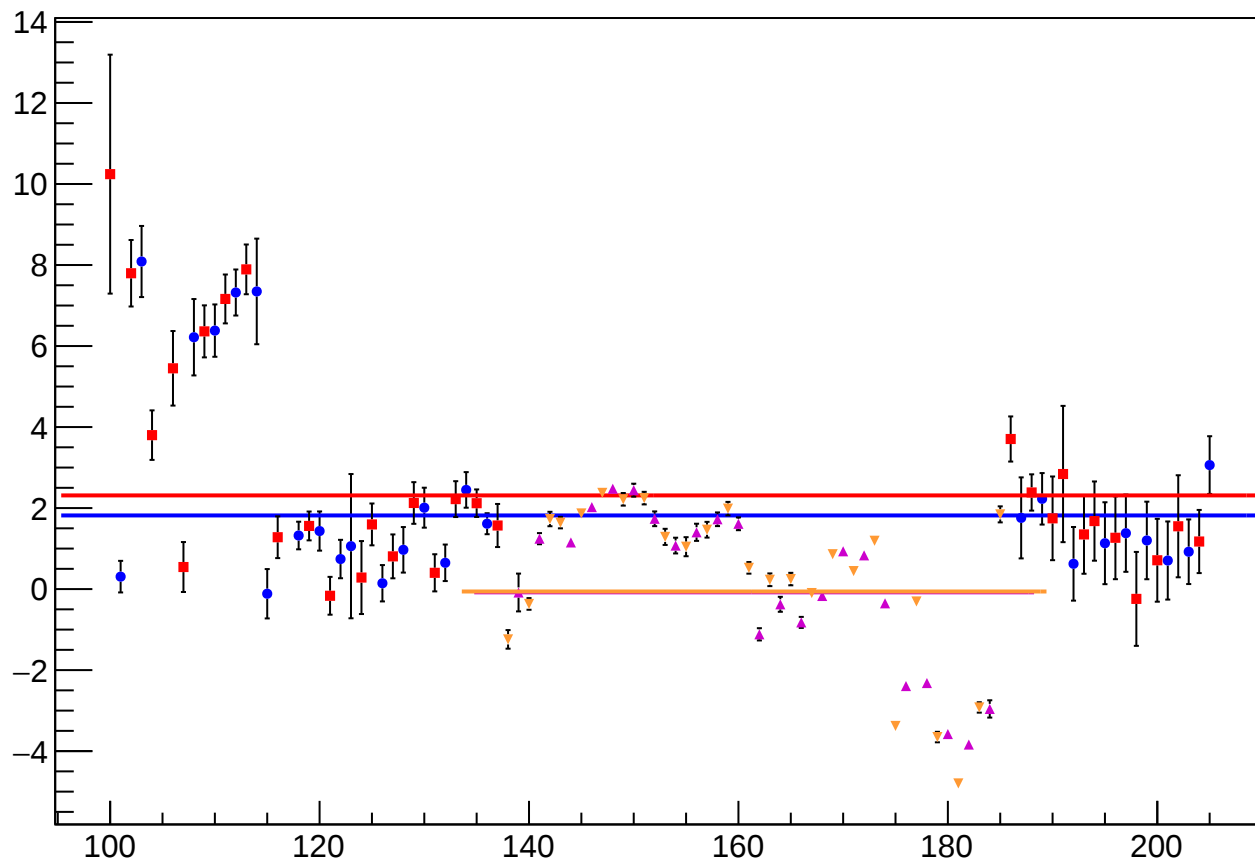
Right: 2.223 $\pm$ 0.145 χ^2 /NDF: 2010.1/19

In: 7.663 $\pm$ 0.035 χ^2 /NDF:9026.3/31

Out: 7.541 $\pm$ 0.034 χ^2 /NDF:14470.5/35

All: 7.601 $\pm$ 0.024 χ^2 /NDF: 23503.1/67

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.818 $\pm$ 0.108 χ^2 /NDF: 302.2/25

Left Out: -0.059 $\pm$ 0.028 χ^2 /NDF:6068.8/24

Right Out: 2.312 $\pm$ 0.110 χ^2 /NDF: 354.7/29

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

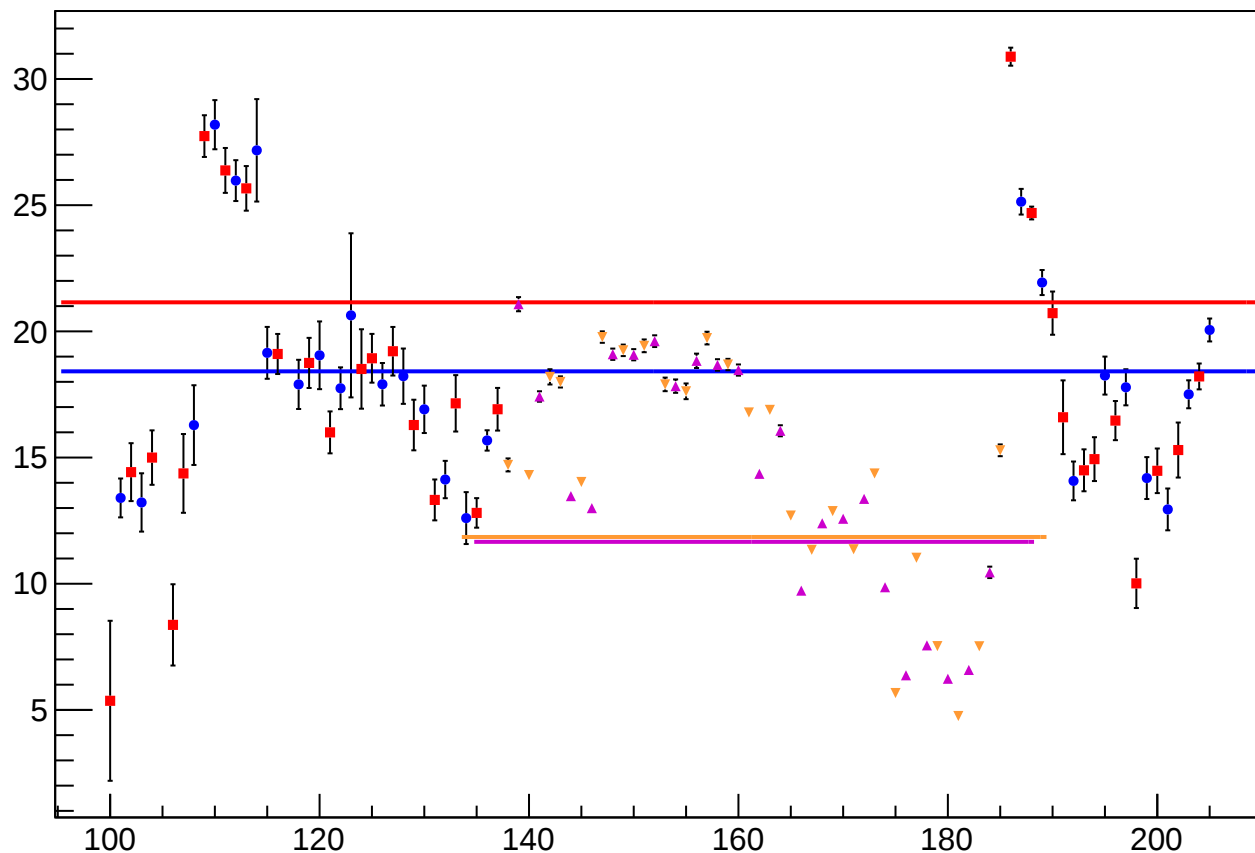
Right: 2.062 $\pm$ 0.077 χ^2 /NDF: 667.2/55

In: 0.040 $\pm$ 0.027 χ^2 /NDF:5569.0/48

Out: 0.083 $\pm$ 0.027 χ^2 /NDF:6862.0/54

All: 0.062 $\pm$ 0.019 χ^2 /NDF: 12432.2/103

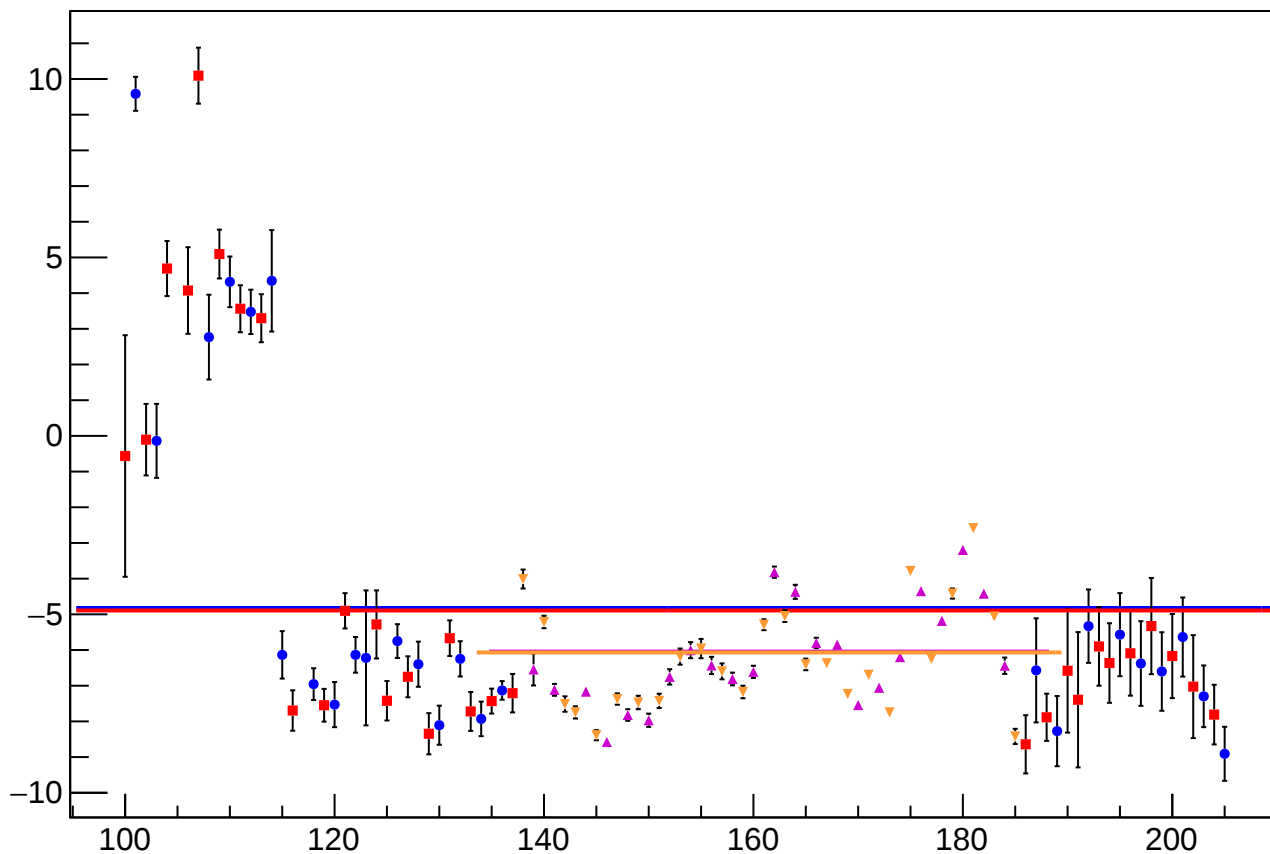
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 18.416 $\pm$ 0.147 χ^2 /NDF: 730.6/25
 Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24
 Right Out: 21.150 $\pm$ 0.132 χ^2 /NDF: 2067.3/29
 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: 19.927 $\pm$ 0.098 χ^2 /NDF: 2989.7/55
 In: 12.027 $\pm$ 0.034 χ^2 /NDF:19444.5/48
 Out: 12.453 $\pm$ 0.034 χ^2 /NDF:25856.7/54
 All: 12.244 $\pm$ 0.024 χ^2 /NDF: 45380.2/103

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.823 ± 0.122 χ^2/NDF : 1645.7/25

Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24

Right Out: -4.891 ± 0.126 χ^2/NDF : 1414.0/29

Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47

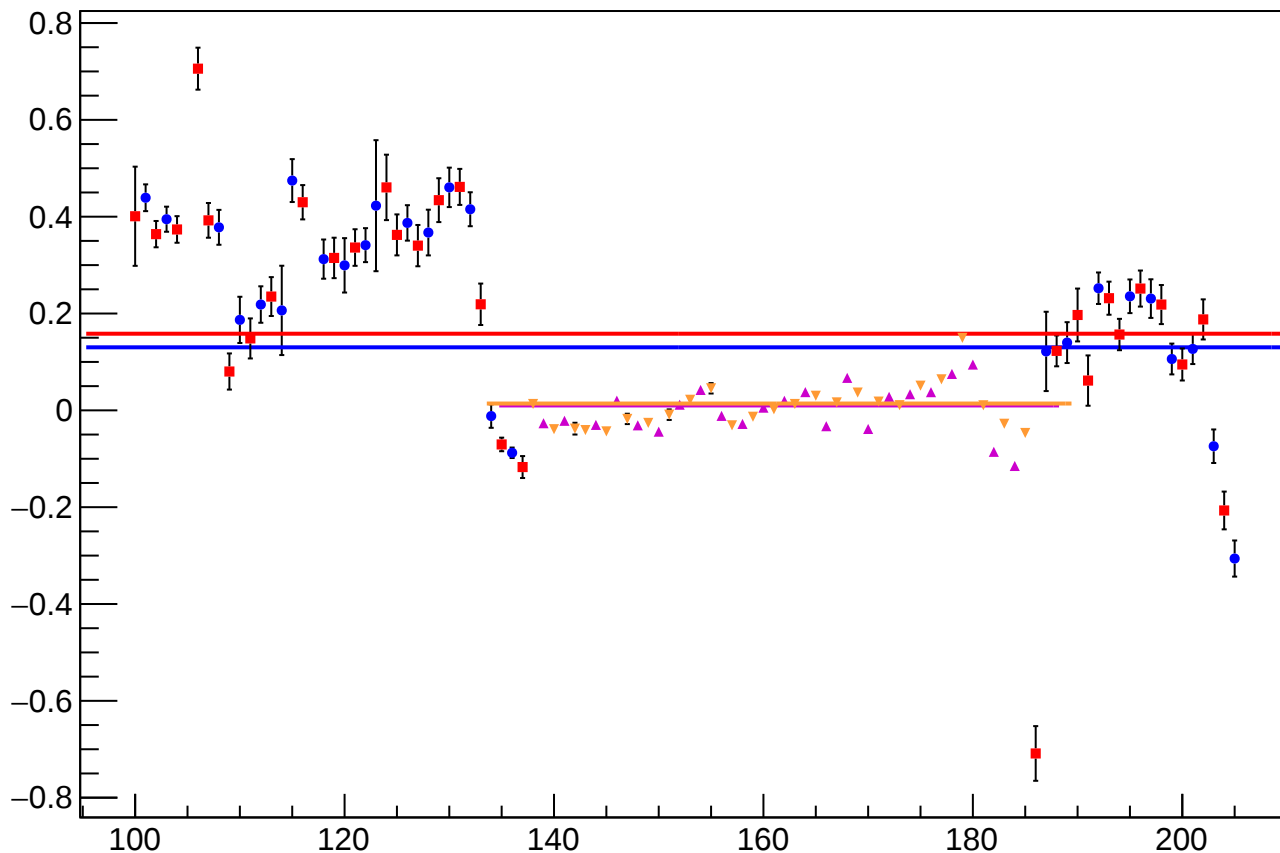
Right: -4.856 ± 0.088 χ^2/NDF : 3059.9/55

In: -5.968 ± 0.031 χ^2/NDF : 4033.6/48

Out: -6.001 ± 0.030 χ^2/NDF : 4168.1/54

All: -5.984 ± 0.022 χ^2/NDF : 8202.3/103

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.130 $\pm$ 0.006 χ^2 /NDF: 1262.4/25

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF:956.2/24

Right Out: 0.158 $\pm$ 0.006 χ^2 /NDF: 1355.8/29

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

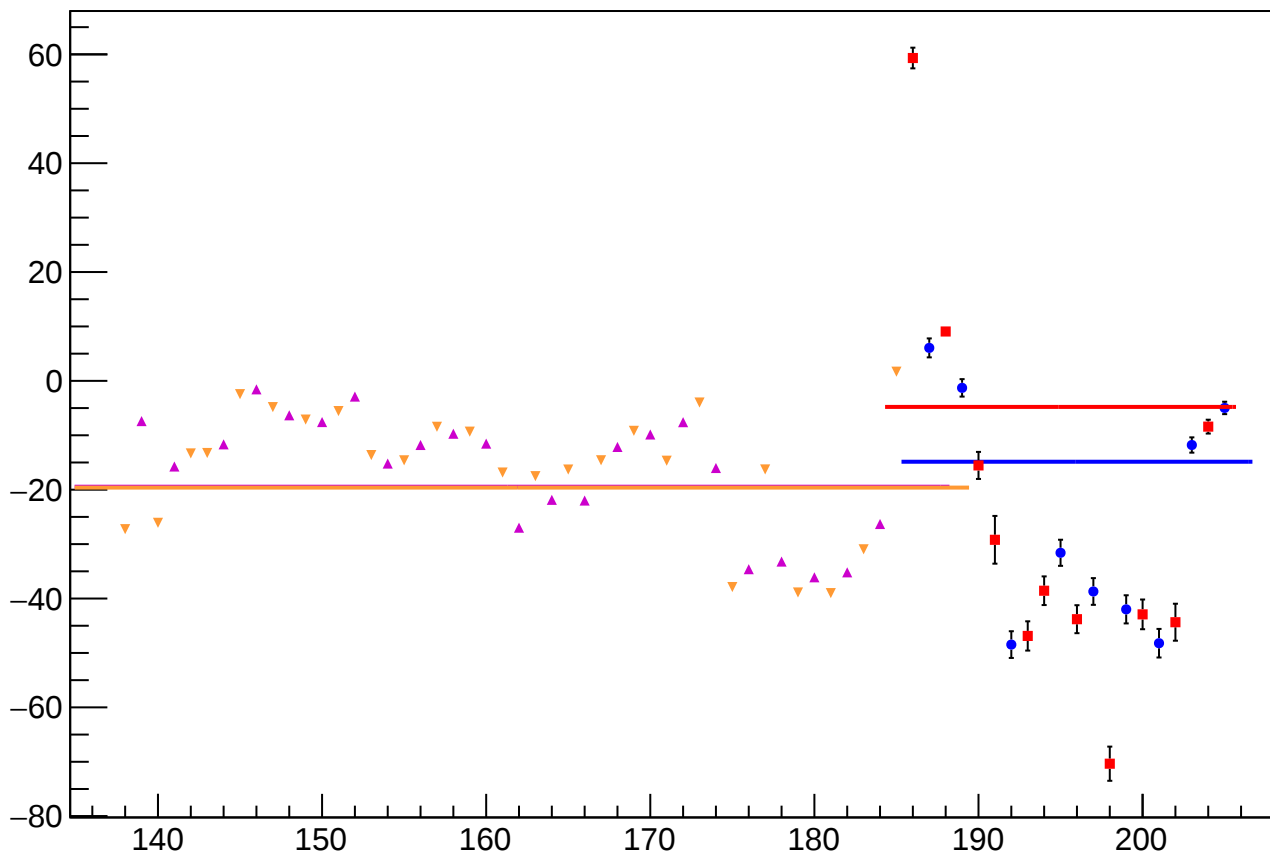
Right: 0.144 $\pm$ 0.004 χ^2 /NDF: 2628.4/55

In: 0.016 $\pm$ 0.001 χ^2 /NDF:2842.5/48

Out: 0.021 $\pm$ 0.001 χ^2 /NDF:2816.1/54

All: 0.019 $\pm$ 0.001 χ^2 /NDF: 5664.1/103

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.861 $\pm$ 0.598 χ^2 /NDF: 897.3/8
 Left Out: -19.612 $\pm$ 0.103 χ^2 /NDF:15761.3/24
 Right Out: -4.786 $\pm$ 0.554 χ^2 /NDF: 2868.8/10
 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

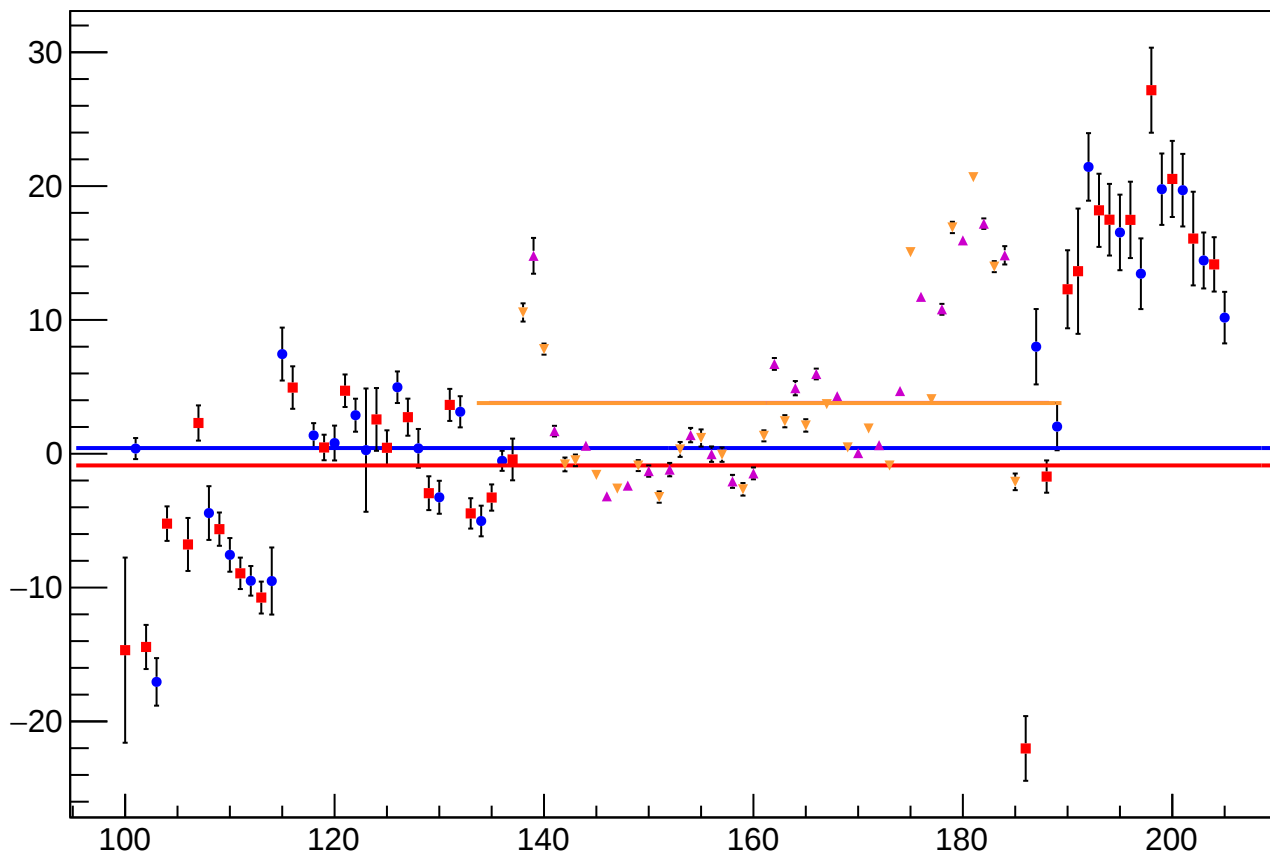
Right: -9.440 $\pm$ 0.407 χ^2 /NDF: 3918.7/19

In: -19.313 $\pm$ 0.103 χ^2 /NDF:13237.5/31

Out: -19.116 $\pm$ 0.101 χ^2 /NDF:19321.3/35

All: -19.212 $\pm$ 0.072 χ^2 /NDF: 32560.7/67

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.426 $\pm$ 0.274 χ^2/NDF : 618.1/25

Left Out: 3.788 $\pm$ 0.082 χ^2/NDF : 7150.5/24

Right Out: -0.873 $\pm$ 0.279 χ^2/NDF : 764.2/29

Left In: 3.799 $\pm$ 0.084 χ^2/NDF : 5517.0/22

Left: 3.793 $\pm$ 0.059 χ^2/NDF : 12667.5/47

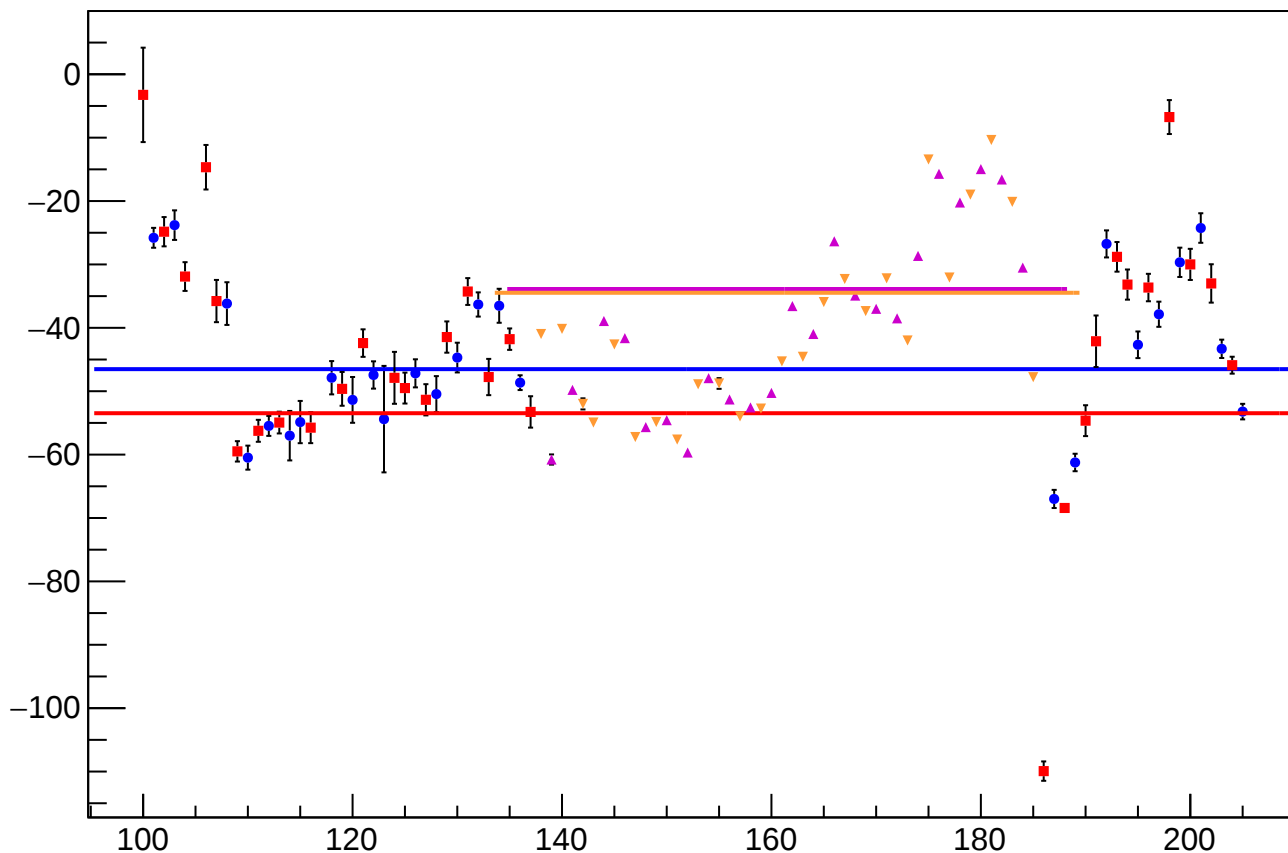
Right: -0.213 $\pm$ 0.195 χ^2/NDF : 1393.3/55

In: 3.512 $\pm$ 0.080 χ^2/NDF : 6273.6/48

Out: 3.416 $\pm$ 0.079 χ^2/NDF : 8172.1/54

All: 3.463 $\pm$ 0.056 χ^2/NDF : 14446.4/103

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.518 ± 0.382 $\chi^2/\text{NDF}: 1036.2/25$

Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF}: 20196.3/24$

Right Out: -53.471 ± 0.356 $\chi^2/\text{NDF}: 3242.0/29$

Left In: -33.875 ± 0.105 $\chi^2/\text{NDF}: 17638.7/22$

Left: -34.177 ± 0.074 $\chi^2/\text{NDF}: 37851.2/47$

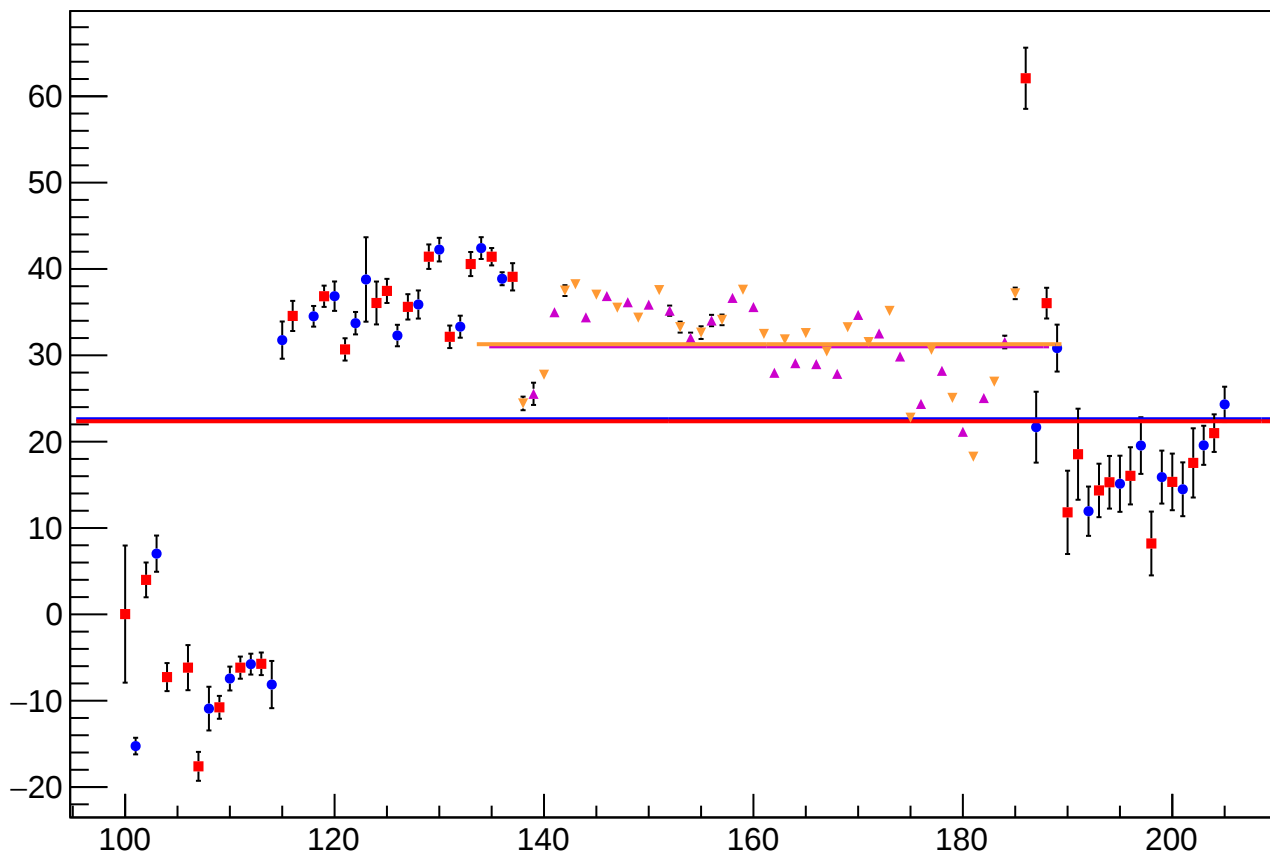
Right: -50.243 ± 0.260 $\chi^2/\text{NDF}: 4455.7/55$

In: -34.768 ± 0.101 $\chi^2/\text{NDF}: 19693.1/48$

Out: -35.967 ± 0.100 $\chi^2/\text{NDF}: 26068.7/54$

All: -35.377 ± 0.071 $\chi^2/\text{NDF}: 45832.9/103$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.598 $\pm$ 0.310 χ^2 /NDF: 4361.5/25

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.361 $\pm$ 0.319 χ^2 /NDF: 4257.5/29

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

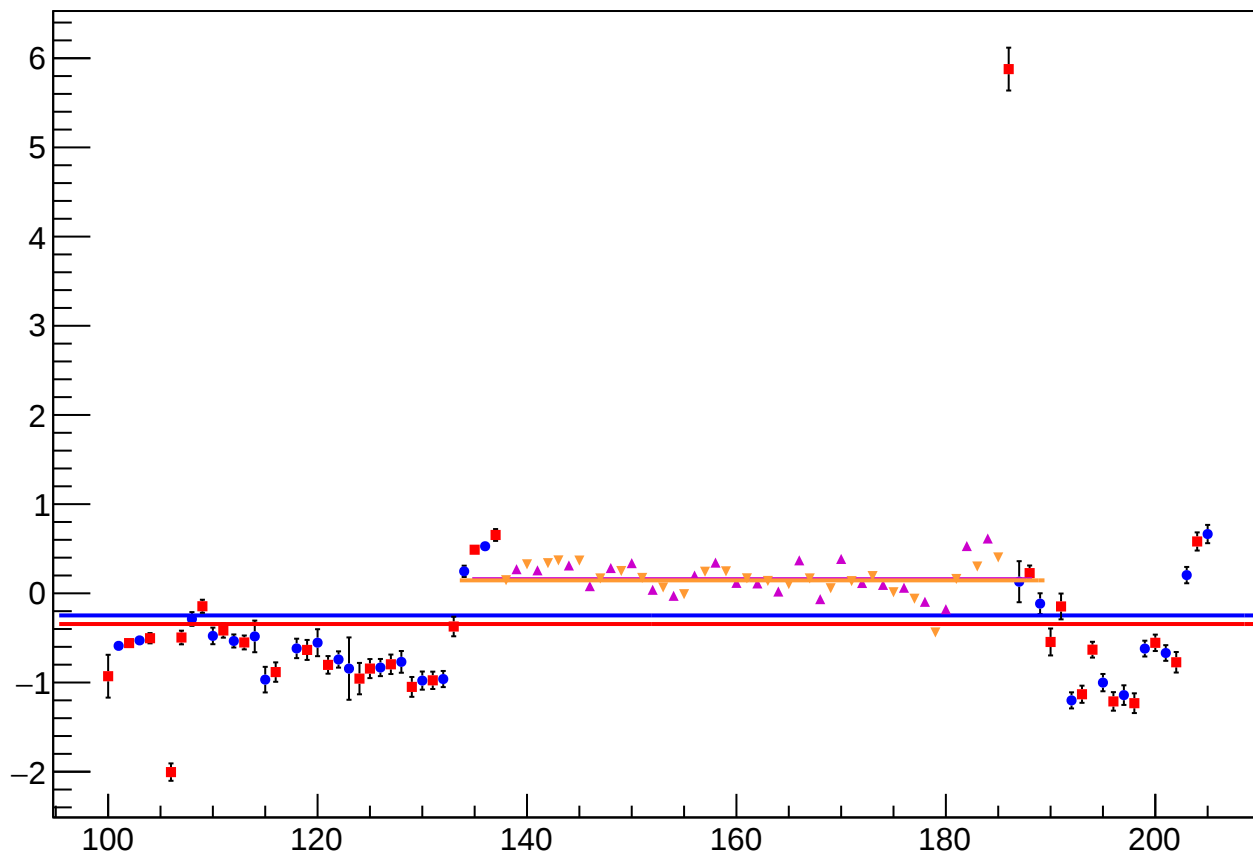
Right: 22.483 $\pm$ 0.222 χ^2 /NDF: 8619.3/55

In: 30.325 $\pm$ 0.090 χ^2 /NDF:7520.5/48

Out: 30.595 $\pm$ 0.089 χ^2 /NDF:8326.3/54

All: 30.462 $\pm$ 0.063 χ^2 /NDF: 15851.3/103

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.248 ± 0.016 χ^2/NDF : 1395.5/25

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.344 ± 0.016 χ^2/NDF : 2207.6/29

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

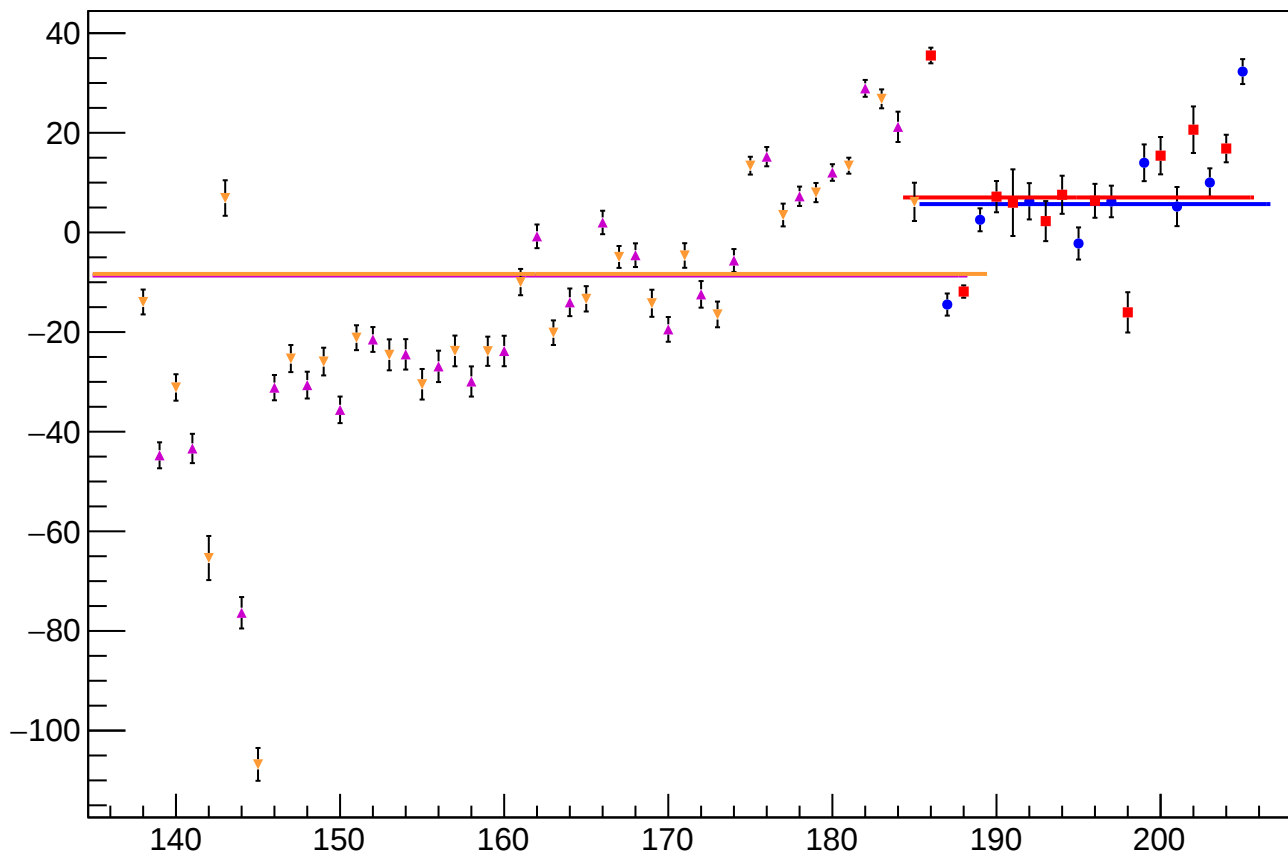
Right: -0.296 ± 0.011 χ^2/NDF : 3621.7/55

In: 0.130 ± 0.004 χ^2/NDF : 4026.3/48

Out: 0.113 ± 0.004 χ^2/NDF : 4673.5/54

All: 0.122 ± 0.003 χ^2/NDF : 8708.9/103

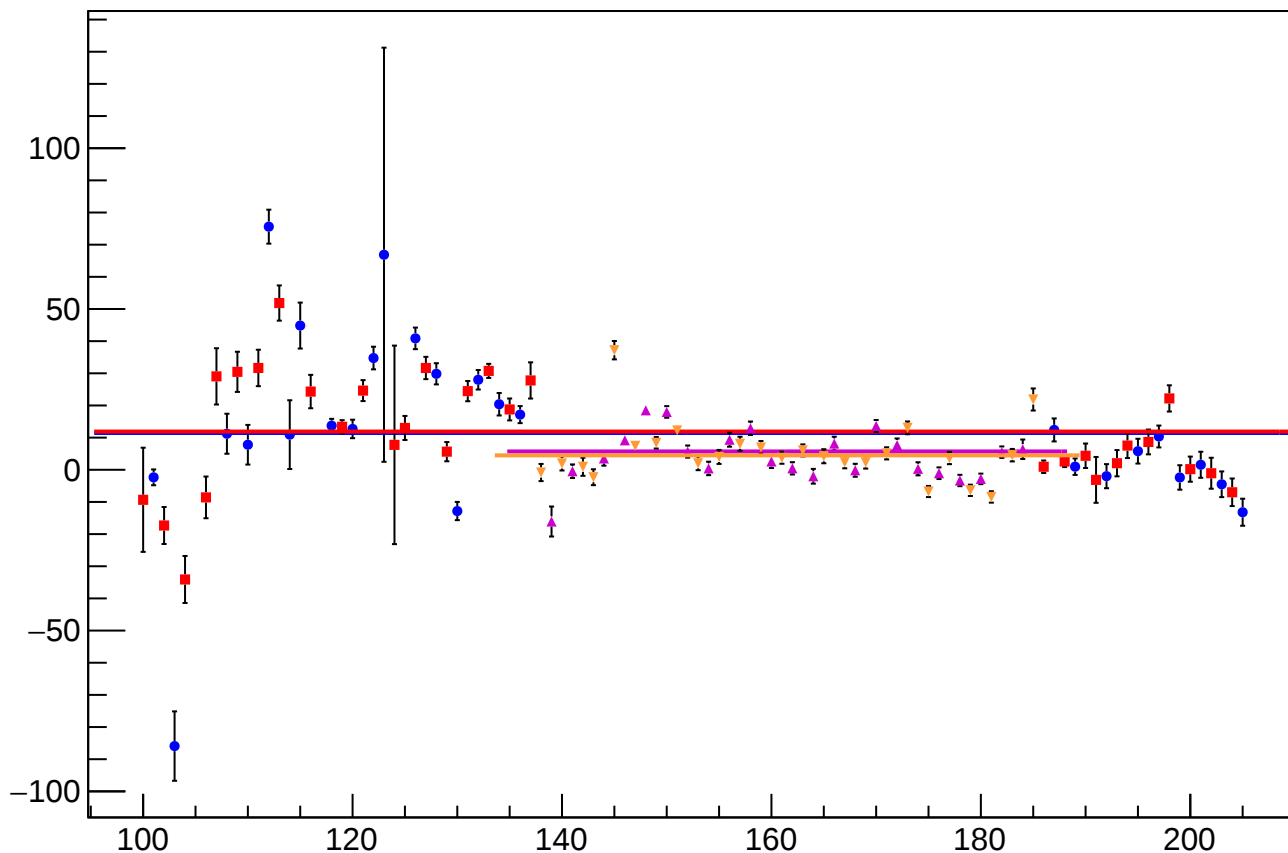
reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.689 ± 0.961 $\chi^2/\text{NDF}: 210.8/8$
 Left Out: -8.332 ± 0.500 $\chi^2/\text{NDF}: 2226.2/24$
 Right Out: 7.021 ± 0.766 $\chi^2/\text{NDF}: 621.6/10$
 Left In: -8.652 ± 0.507 $\chi^2/\text{NDF}: 2223.8/22$

Left: -8.490 ± 0.356 $\chi^2/\text{NDF}: 4450.2/47$
 Right: 6.503 ± 0.599 $\chi^2/\text{NDF}: 833.6/19$
 In: -5.526 ± 0.449 $\chi^2/\text{NDF}: 2608.9/31$
 Out: -3.746 ± 0.418 $\chi^2/\text{NDF}: 3129.9/35$
 All: -4.574 ± 0.306 $\chi^2/\text{NDF}: 5747.2/67$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.449 $\pm$ 0.697 χ^2 /NDF: 651.7/25

Left Out: 4.484 $\pm$ 0.392 χ^2 /NDF:371.9/24

Right Out: 11.892 $\pm$ 0.653 χ^2 /NDF: 434.7/29

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

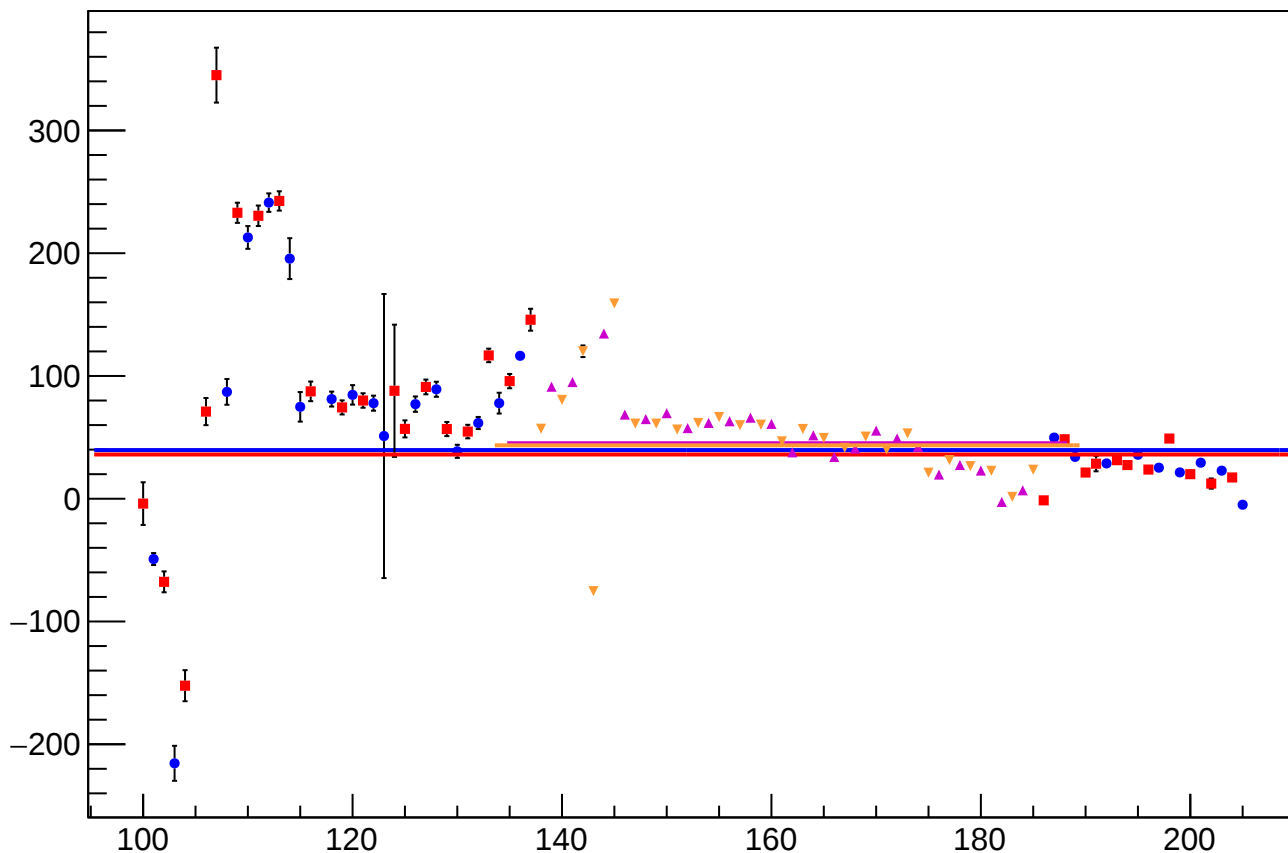
Right: 11.685 $\pm$ 0.477 χ^2 /NDF: 1086.6/55

In: 7.150 $\pm$ 0.350 χ^2 /NDF:1026.6/48

Out: 6.447 $\pm$ 0.336 χ^2 /NDF:901.2/54

All: 6.785 $\pm$ 0.242 χ^2 /NDF: 1929.8/103

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 39.635 $\pm$ 0.756 χ^2 /NDF: 2883.1/25

Left Out: 43.524 $\pm$ 0.498 χ^2 /NDF: 3830.7/24

Right Out: 36.029 $\pm$ 0.603 χ^2 /NDF: 4313.2/29

Left In: 45.211 $\pm$ 0.504 χ^2 /NDF: 3048.5/22

Left: 44.358 $\pm$ 0.354 χ^2 /NDF: 6884.8/47

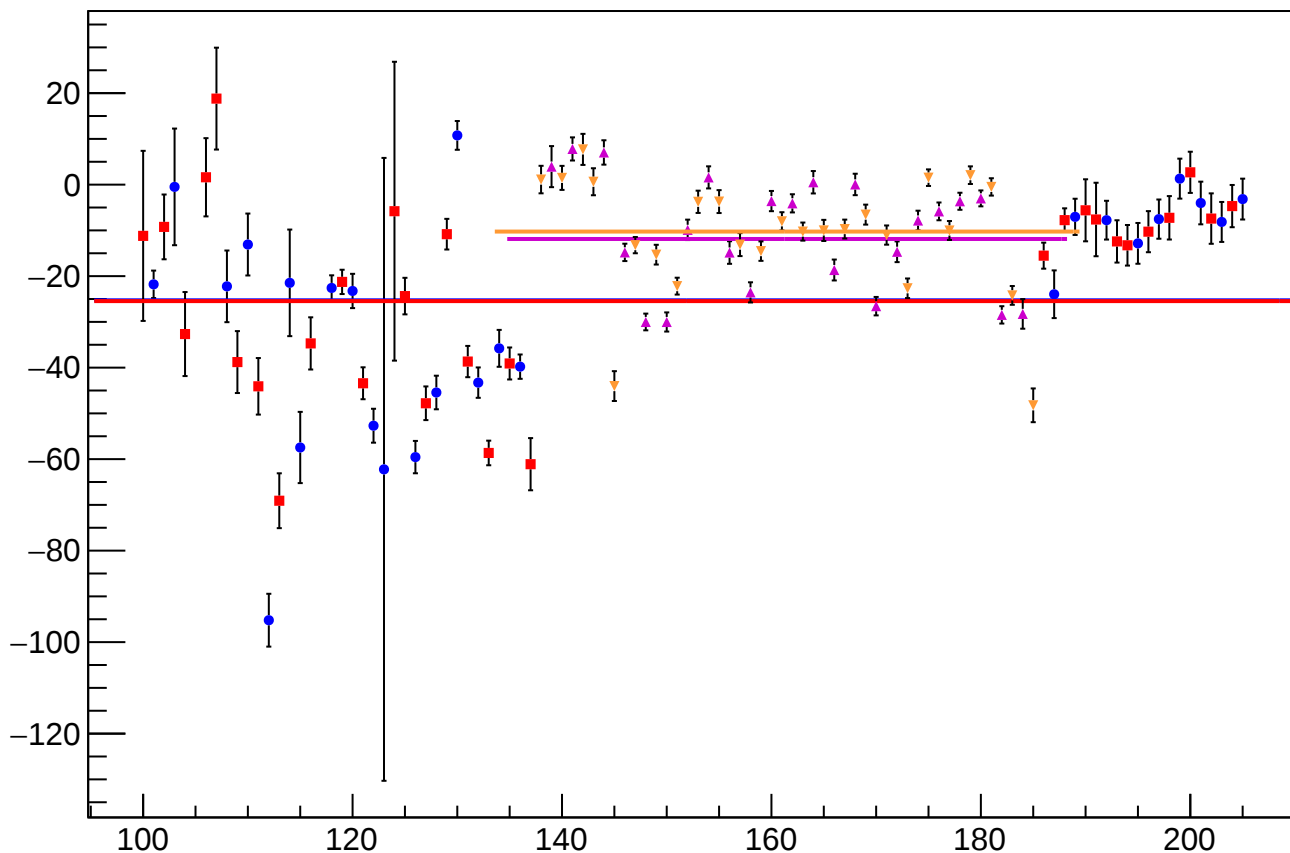
Right: 37.431 $\pm$ 0.471 χ^2 /NDF: 7210.2/55

In: 43.495 $\pm$ 0.420 χ^2 /NDF: 5969.3/48

Out: 40.481 $\pm$ 0.384 χ^2 /NDF: 8235.7/54

All: 41.855 $\pm$ 0.283 χ^2 /NDF: 14233.0/103

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -25.287 ± 0.818 χ^2/NDF : 711.0/25

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -25.457 ± 0.795 χ^2/NDF : 591.9/29

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

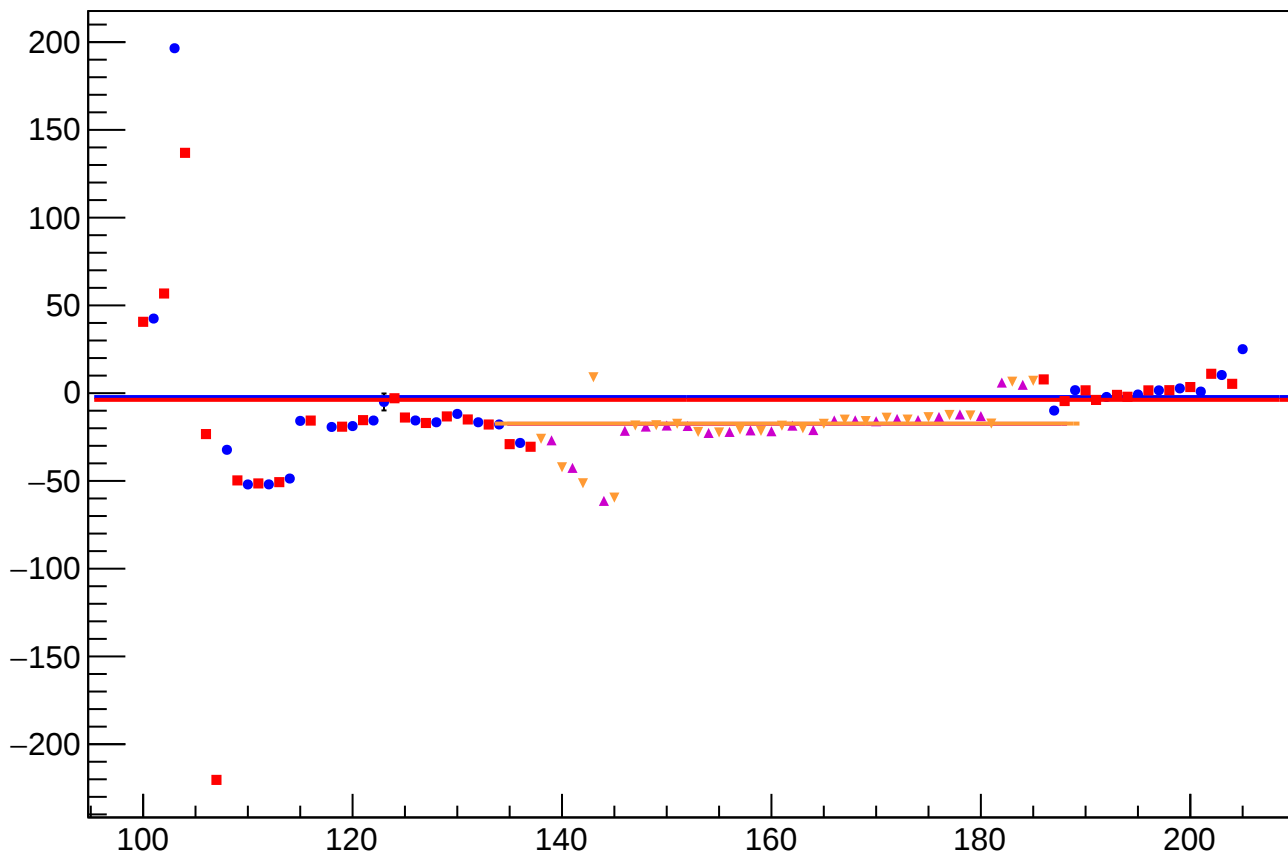
Right: -25.374 ± 0.570 χ^2/NDF : 1302.9/55

In: -15.058 ± 0.398 χ^2/NDF : 1582.3/48

Out: -13.872 ± 0.388 χ^2/NDF : 1422.8/54

All: -14.449 ± 0.278 χ^2/NDF : 3009.7/103

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -2.220 ± 0.039 χ^2/NDF : 612805.5/25

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -3.804 ± 0.037 χ^2/NDF : 602313.4/29

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

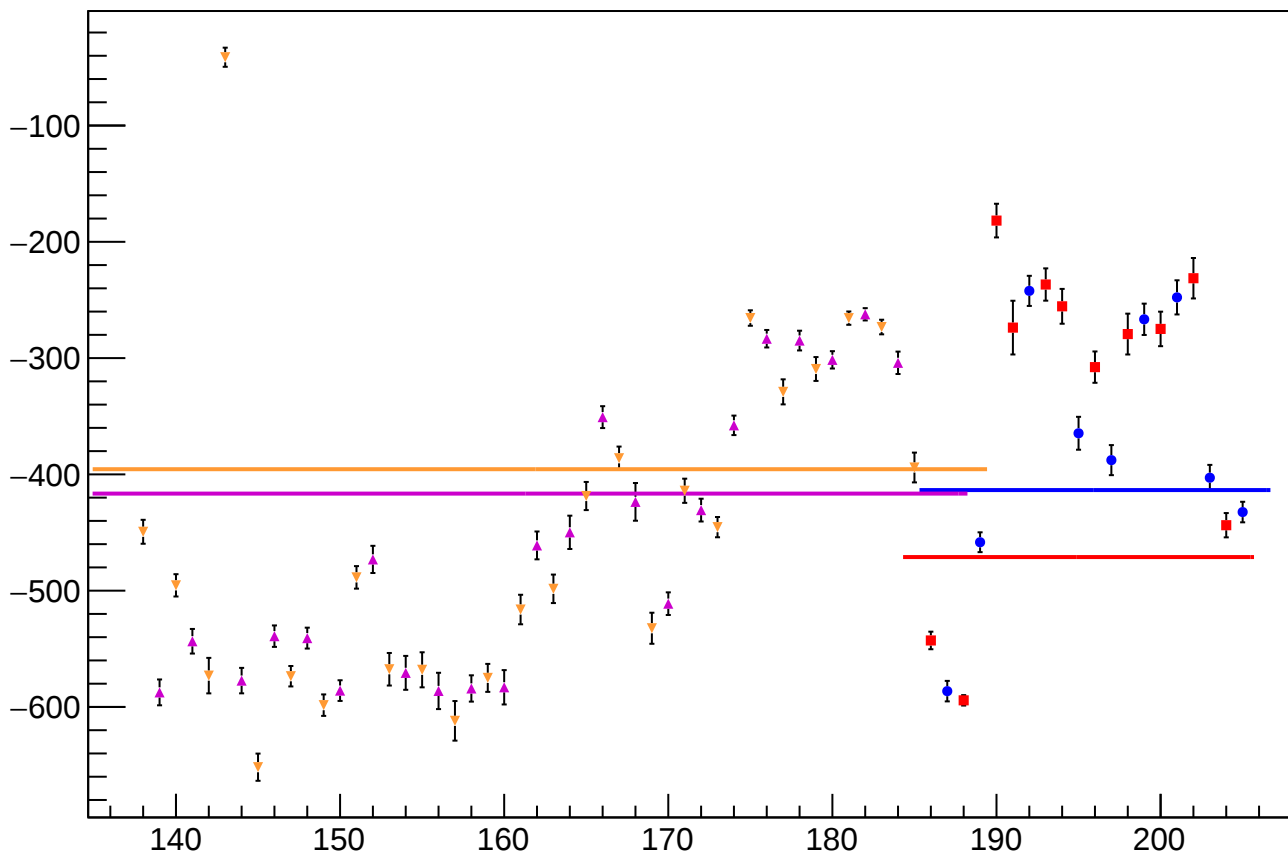
Right: -3.044 ± 0.027 χ^2/NDF : 1215987.4/55

In: -14.109 ± 0.018 χ^2/NDF : 992820.3/48

Out: -14.210 ± 0.018 χ^2/NDF : 1029033.8/54

All: -14.160 ± 0.013 χ^2/NDF : 2021869.4/103

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -413.489 ± 3.658 χ^2/NDF : 854.8/8

Left Out: -395.547 ± 1.953 χ^2/NDF : 5946.5/24

Right Out: -471.100 ± 3.025 χ^2/NDF : 2447.4/10

Left In: -416.521 ± 2.005 χ^2/NDF : 3917.0/22

Left: -405.762 ± 1.399 χ^2/NDF : 9919.7/47

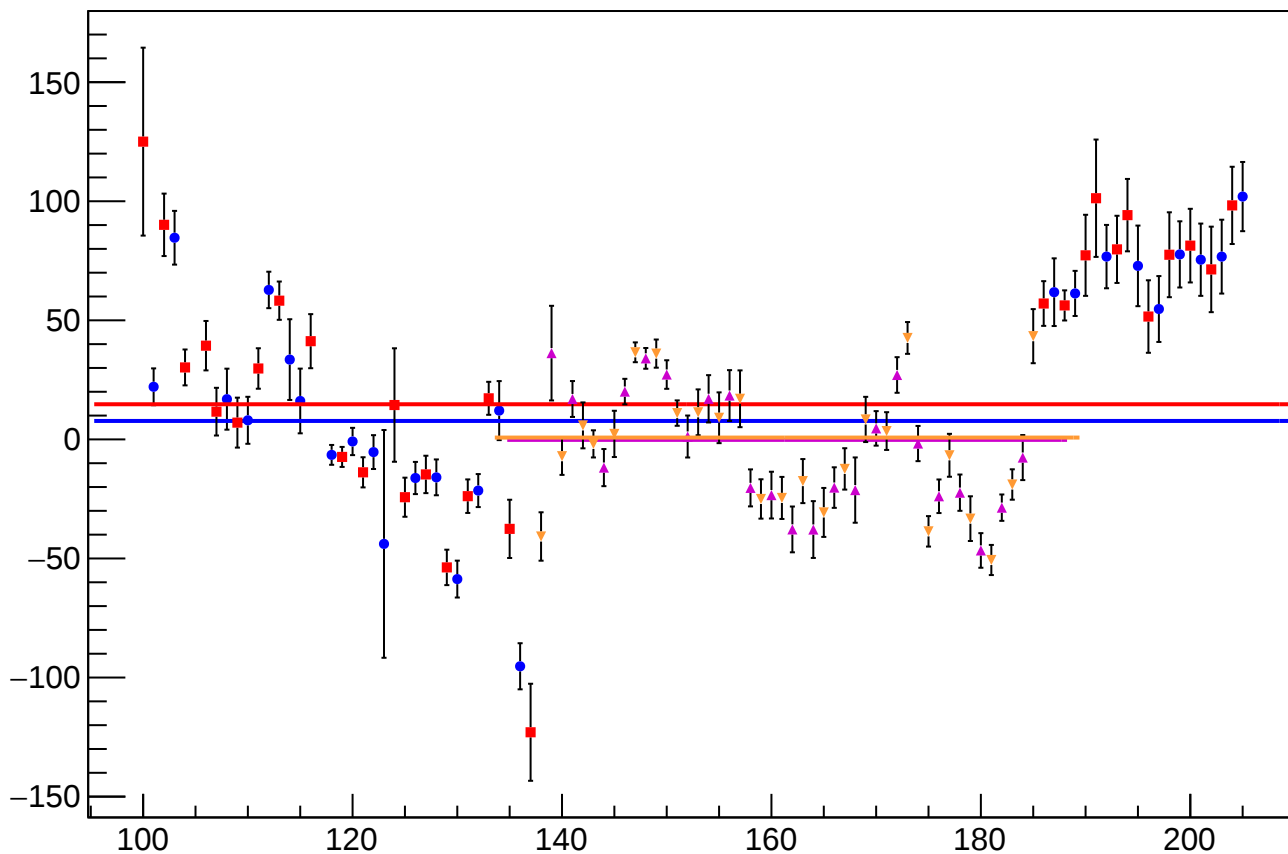
Right: -447.704 ± 2.331 χ^2/NDF : 3449.5/19

In: -415.821 ± 1.758 χ^2/NDF : 4772.3/31

Out: -417.782 ± 1.641 χ^2/NDF : 8834.1/35

All: -416.869 ± 1.200 χ^2/NDF : 13607.1/67

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.747 ± 1.772 $\chi^2/\text{NDF}: 557.2/25$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 14.756 ± 1.711 $\chi^2/\text{NDF}: 563.9/29$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

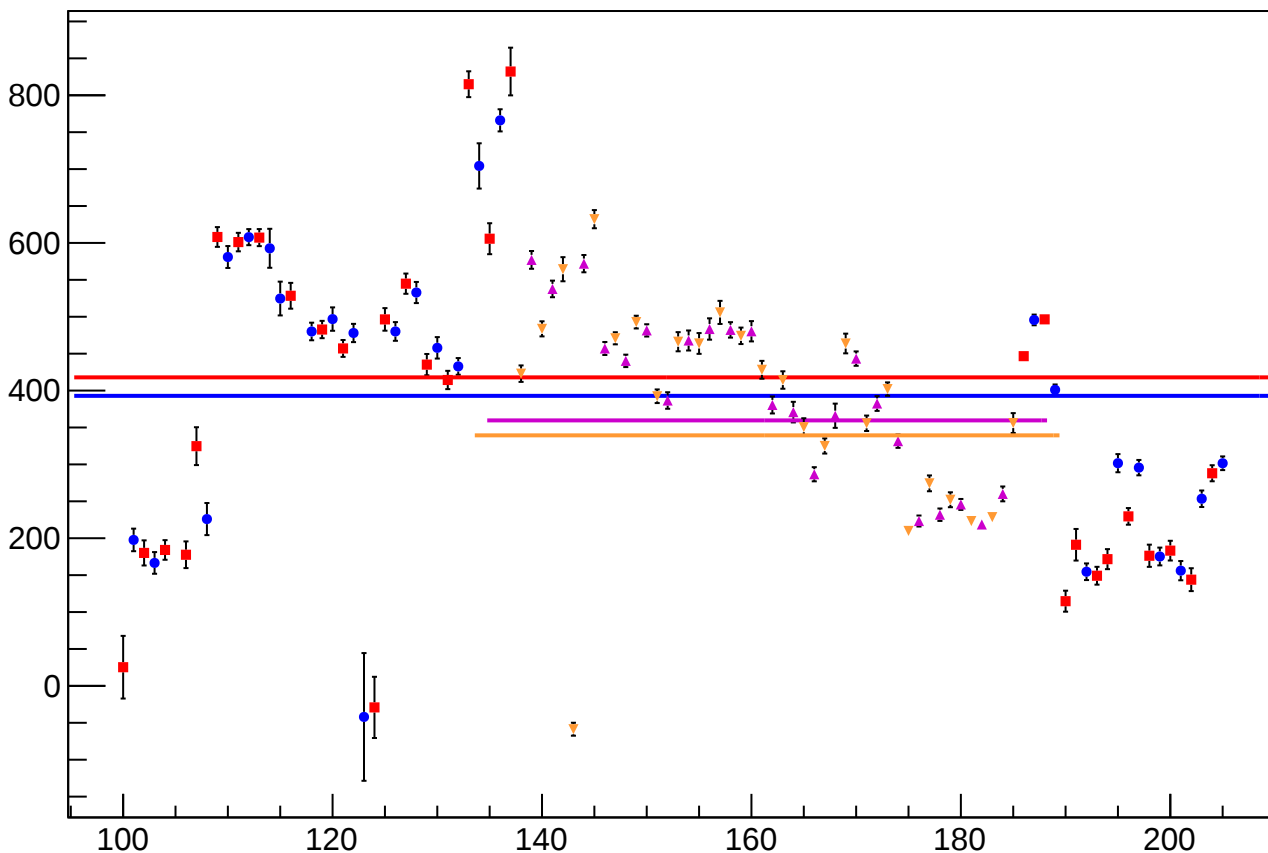
Right: 11.374 ± 1.231 $\chi^2/\text{NDF}: 1129.2/55$

In: 3.305 ± 1.177 $\chi^2/\text{NDF}: 829.2/48$

Out: 6.857 ± 1.129 $\chi^2/\text{NDF}: 951.7/54$

All: 5.156 ± 0.815 $\chi^2/\text{NDF}: 1785.7/103$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 392.865 ± 2.435 $\chi^2/\text{NDF}: 3867.8/25$

Left Out: 339.355 ± 1.963 $\chi^2/\text{NDF}: 5502.5/24$

Right Out: 417.895 ± 2.068 $\chi^2/\text{NDF}: 5724.5/29$

Left In: 359.609 ± 2.003 $\chi^2/\text{NDF}: 3398.5/22$

Left: 349.278 ± 1.402 $\chi^2/\text{NDF}: 8953.2/47$

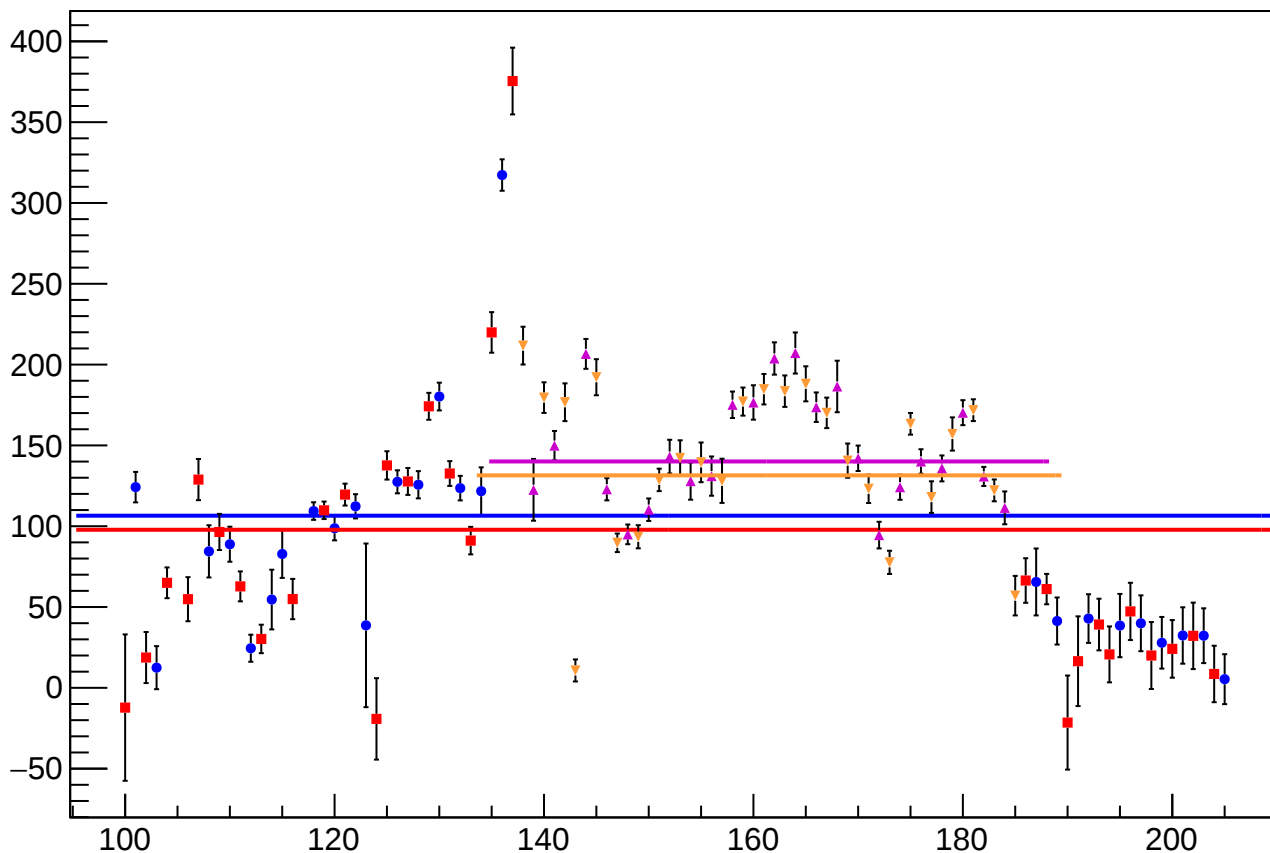
Right: 407.409 ± 1.576 $\chi^2/\text{NDF}: 9653.8/55$

In: 373.028 ± 1.547 $\chi^2/\text{NDF}: 7377.6/48$

Out: 376.580 ± 1.423 $\chi^2/\text{NDF}: 11986.0/54$

All: 374.951 ± 1.047 $\chi^2/\text{NDF}: 19366.5/103$

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 106.505 ± 2.070 $\chi^2/\text{NDF}: 904.8/25$

Left Out: 131.464 ± 1.728 $\chi^2/\text{NDF}: 809.3/24$

Right Out: 97.807 ± 2.018 $\chi^2/\text{NDF}: 749.6/29$

Left In: 140.069 ± 1.795 $\chi^2/\text{NDF}: 316.5/22$

Left: 135.602 ± 1.245 $\chi^2/\text{NDF}: 1137.8/47$

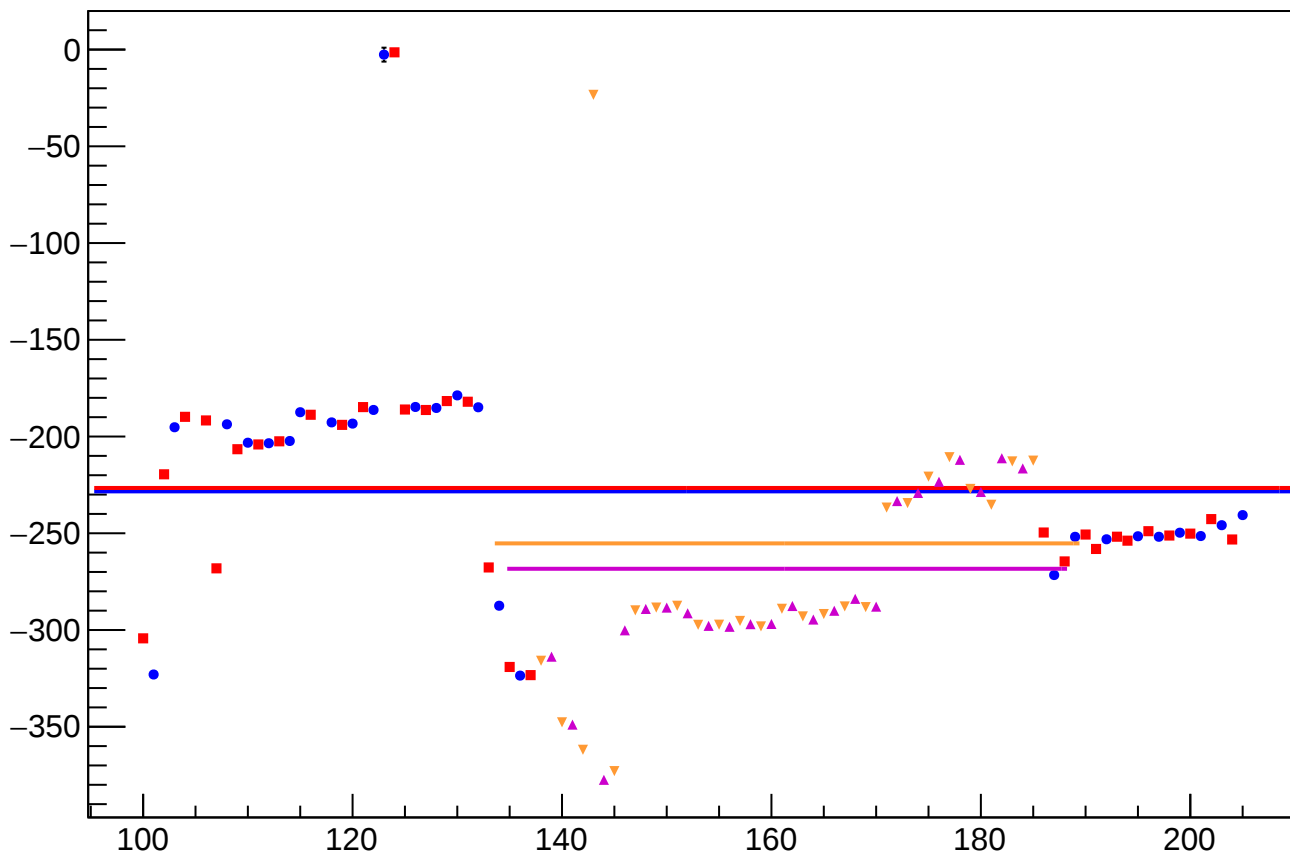
Right: 102.045 ± 1.445 $\chi^2/\text{NDF}: 1663.4/55$

In: 125.665 ± 1.356 $\chi^2/\text{NDF}: 1371.4/48$

Out: 117.232 ± 1.312 $\chi^2/\text{NDF}: 1719.4/54$

All: 121.310 ± 0.943 $\chi^2/\text{NDF}: 3110.7/103$

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -228.346 ± 0.112 $\chi^2/\text{NDF}: 167036.4/25$

Left Out: -255.232 ± 0.082 $\chi^2/\text{NDF}: 728016.7/24$

Right Out: -226.583 ± 0.106 $\chi^2/\text{NDF}: 149153.1/29$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

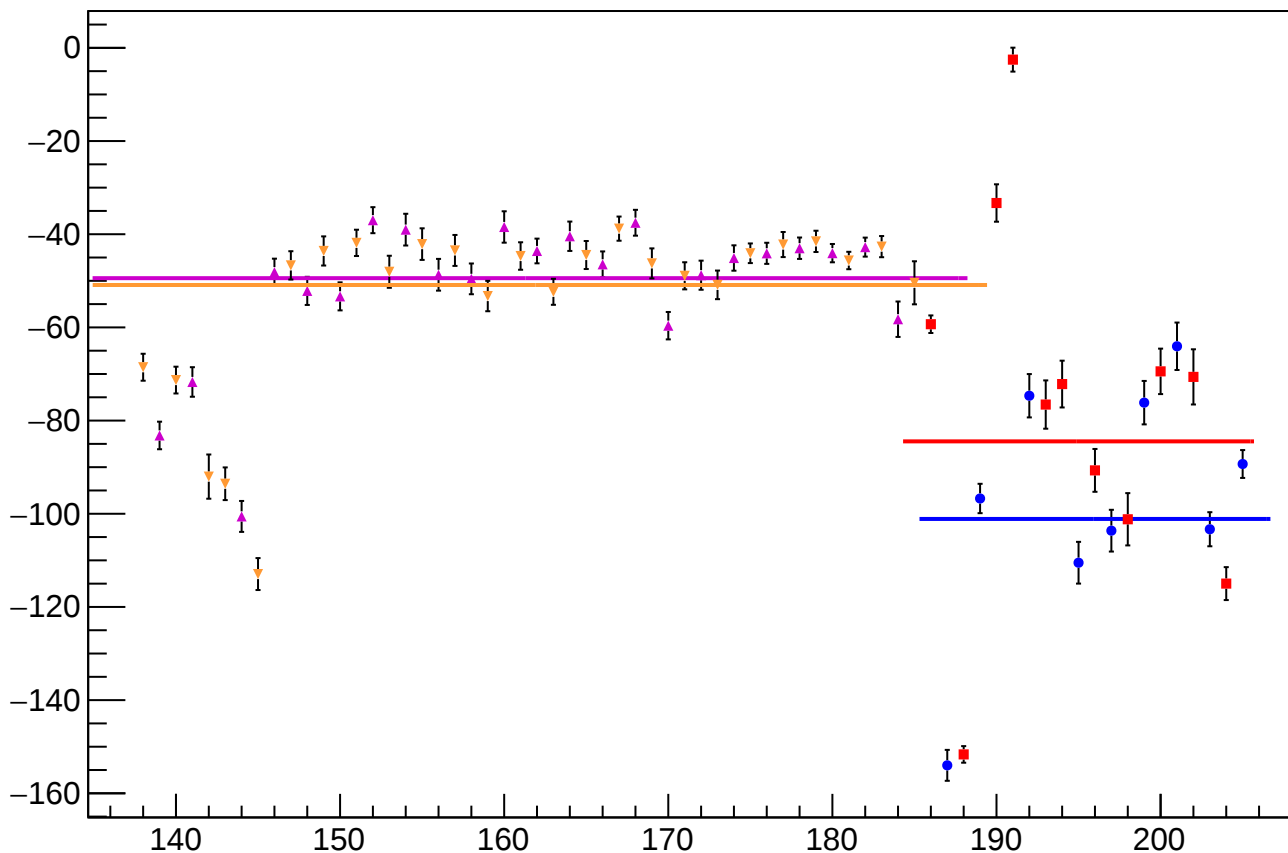
Right: -227.414 ± 0.077 $\chi^2/\text{NDF}: 316321.1/55$

In: -253.995 ± 0.067 $\chi^2/\text{NDF}: 511661.9/48$

Out: -244.452 ± 0.065 $\chi^2/\text{NDF}: 923144.9/54$

All: -249.062 ± 0.047 $\chi^2/\text{NDF}: 1445306.9/10$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -101.112 ± 1.282 χ^2/NDF : 390.6/8

Left Out: -50.897 ± 0.573 χ^2/NDF : 761.1/24

Right Out: -84.462 ± 0.946 χ^2/NDF : 2890.8/10

Left In: -49.432 ± 0.584 χ^2/NDF : 543.4/22

Left: -50.179 ± 0.409 χ^2/NDF : 1307.8/47

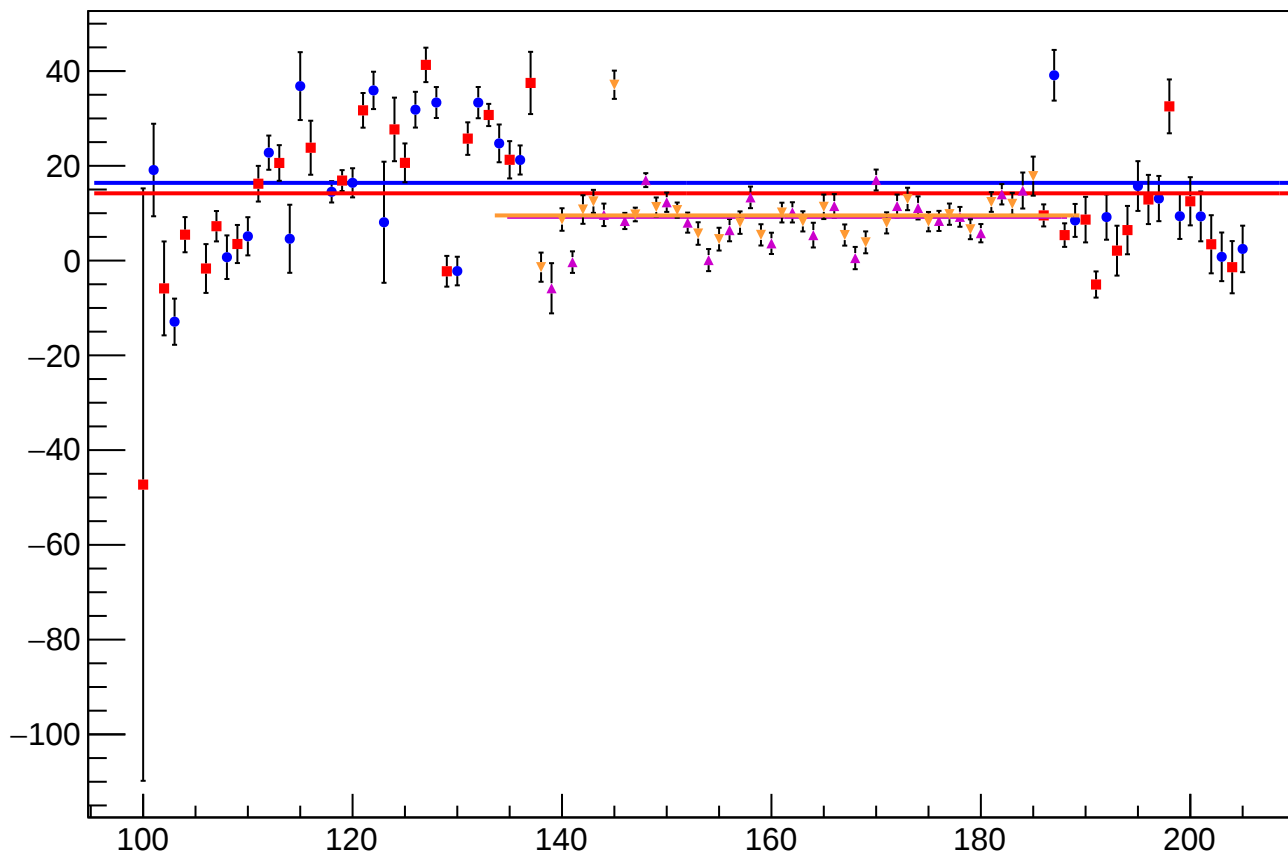
Right: -90.336 ± 0.761 χ^2/NDF : 3390.6/19

In: -58.314 ± 0.531 χ^2/NDF : 2280.3/31

Out: -59.897 ± 0.490 χ^2/NDF : 4572.8/35

All: -59.170 ± 0.360 χ^2/NDF : 6857.8/67

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.402 $\pm$ 0.794 χ^2 /NDF: 257.5/25

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 14.196 $\pm$ 0.690 χ^2 /NDF: 322.8/29

Left In: 9.231 $\pm$ 0.462 χ^2 /NDF:124.0/22

Left: 9.386 $\pm$ 0.321 χ^2 /NDF: 258.5/47

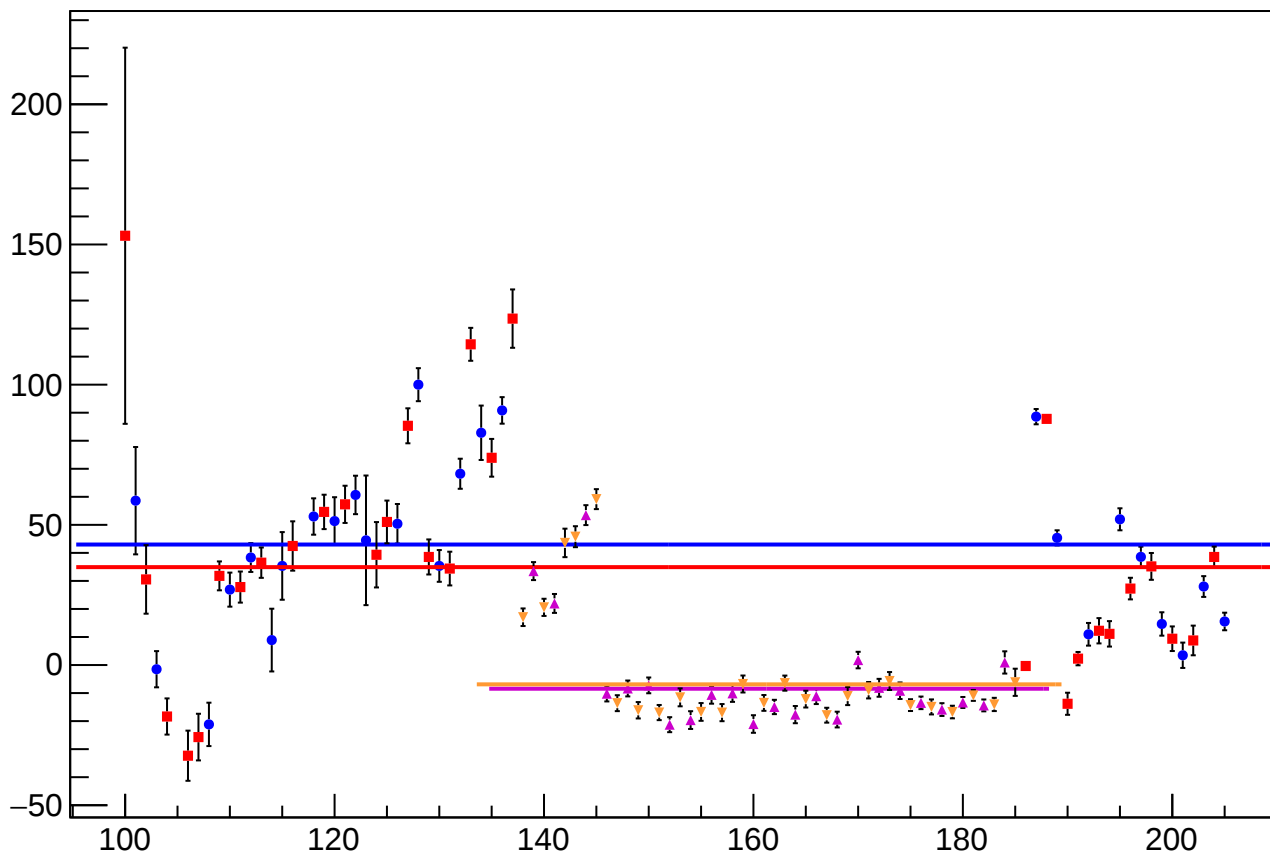
Right: 15.145 $\pm$ 0.521 χ^2 /NDF: 584.7/55

In: 11.042 $\pm$ 0.399 χ^2 /NDF:442.4/48

Out: 10.905 $\pm$ 0.374 χ^2 /NDF:489.5/54

All: 10.969 $\pm$ 0.273 χ^2 /NDF: 931.9/103

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 42.982 ± 0.949 $\chi^2/\text{NDF}: 947.9/25$

Left Out: -6.888 ± 0.571 $\chi^2/\text{NDF}: 914.2/24$

Right Out: 34.919 ± 0.721 $\chi^2/\text{NDF}: 2922.9/29$

Left In: -8.451 ± 0.580 $\chi^2/\text{NDF}: 688.9/22$

Left: -7.658 ± 0.407 $\chi^2/\text{NDF}: 1606.8/47$

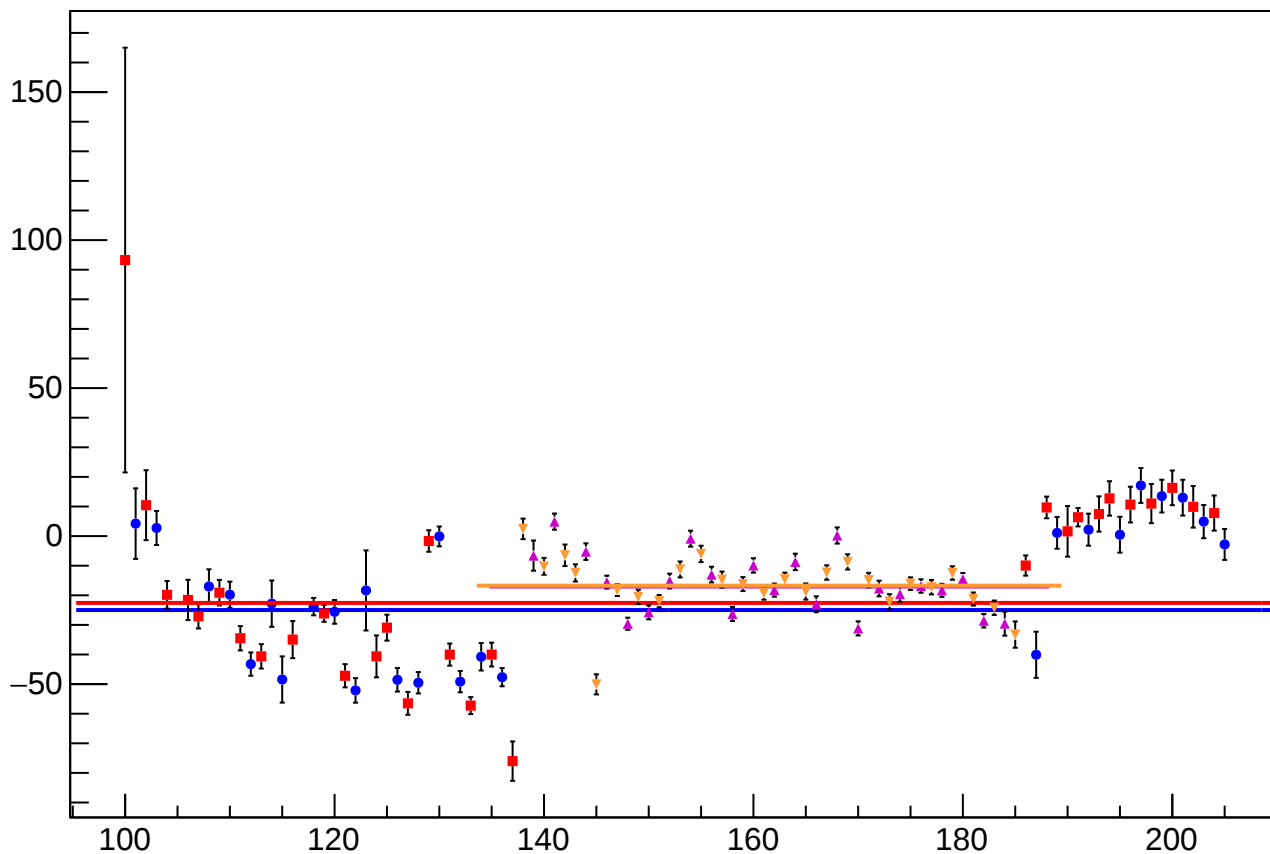
Right: 37.869 ± 0.574 $\chi^2/\text{NDF}: 3916.5/55$

In: 5.522 ± 0.495 $\chi^2/\text{NDF}: 3774.5/48$

Out: 9.221 ± 0.448 $\chi^2/\text{NDF}: 5902.9/54$

All: 7.556 ± 0.332 $\chi^2/\text{NDF}: 9708.1/103$

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -24.977 ± 0.918 χ^2/NDF : 609.5/25

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -22.572 ± 0.823 χ^2/NDF : 852.4/29

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

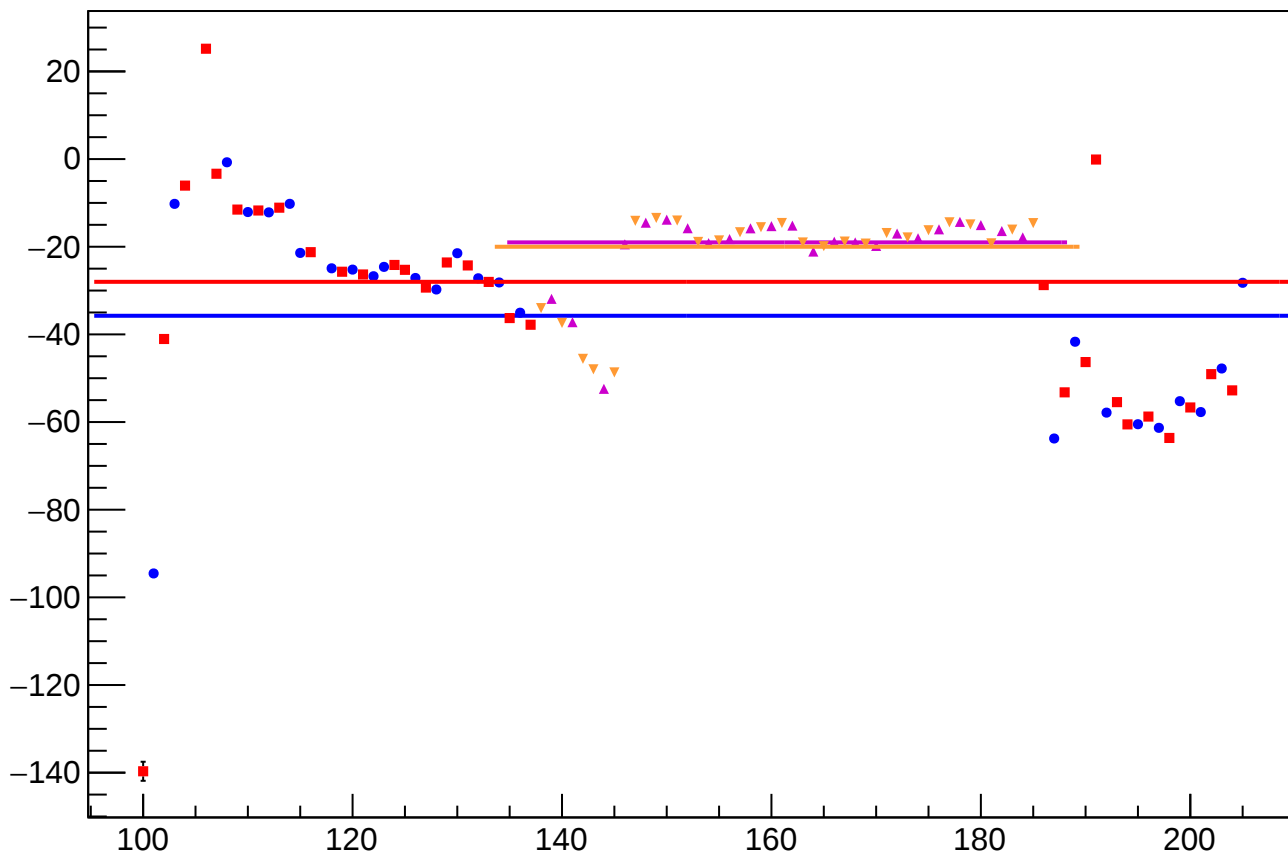
Right: -23.642 ± 0.613 χ^2/NDF : 1465.7/55

In: -18.964 ± 0.454 χ^2/NDF : 993.8/48

Out: -18.339 ± 0.431 χ^2/NDF : 1112.2/54

All: -18.636 ± 0.313 χ^2/NDF : 2106.9/103

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -35.753 ± 0.044 χ^2/NDF : 200939.3/25

Left Out: -20.006 ± 0.023 χ^2/NDF : 145623.8/24

Right Out: -28.006 ± 0.038 χ^2/NDF : 408819.5/29

Left In: -19.007 ± 0.024 χ^2/NDF : 90873.3/22

Left: -19.514 ± 0.017 χ^2/NDF : 237400.2/47

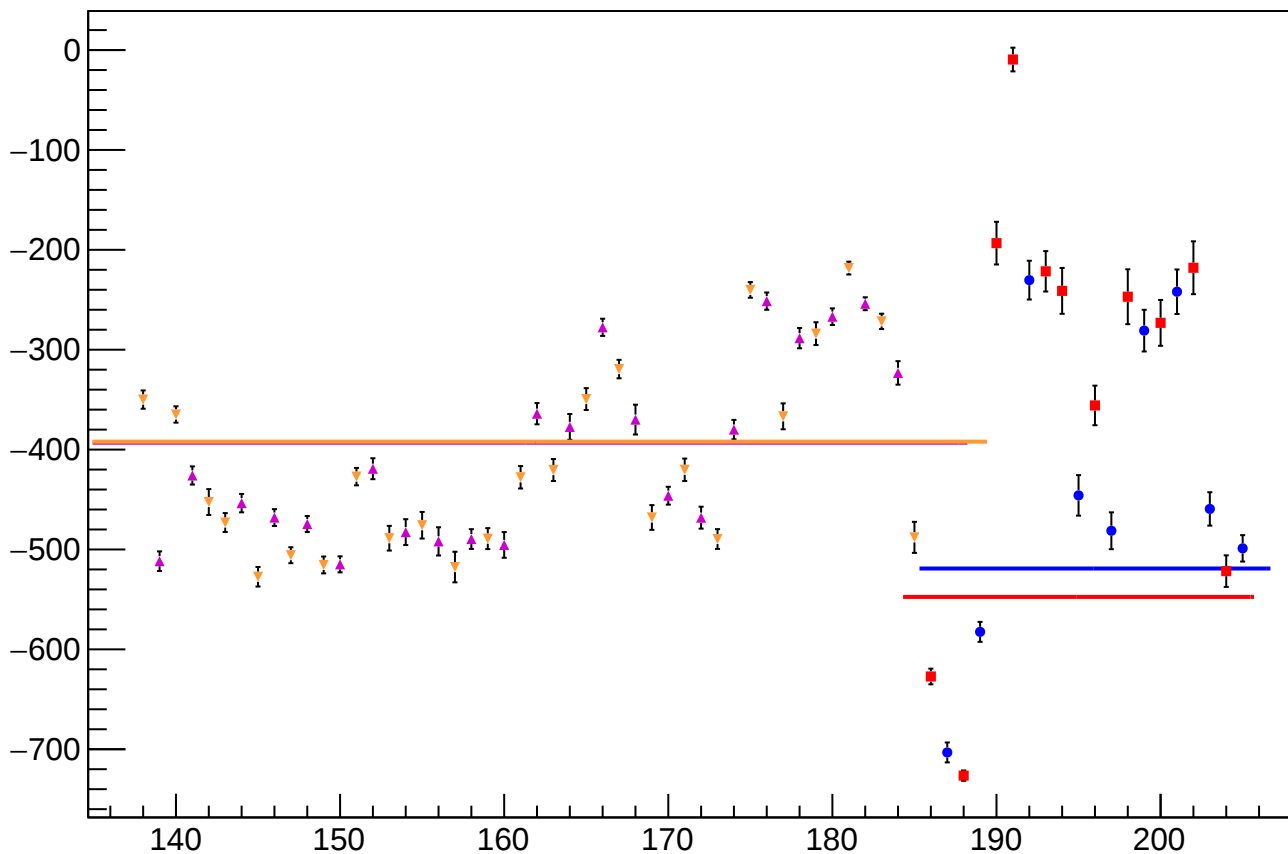
Right: -31.301 ± 0.029 χ^2/NDF : 627565.9/55

In: -22.766 ± 0.021 χ^2/NDF : 404110.9/48

Out: -22.203 ± 0.020 χ^2/NDF : 586823.2/54

All: -22.470 ± 0.014 χ^2/NDF : 991316.9/103

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -519.078+/-4.897 χ^2/NDF : 919.8/8

Left Out: -392.054+/-1.967 χ^2/NDF :2717.2/24

Right Out: -547.512+/-3.573 χ^2/NDF : 4581.8/10

Left In: -393.113+/-2.006 χ^2/NDF :2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

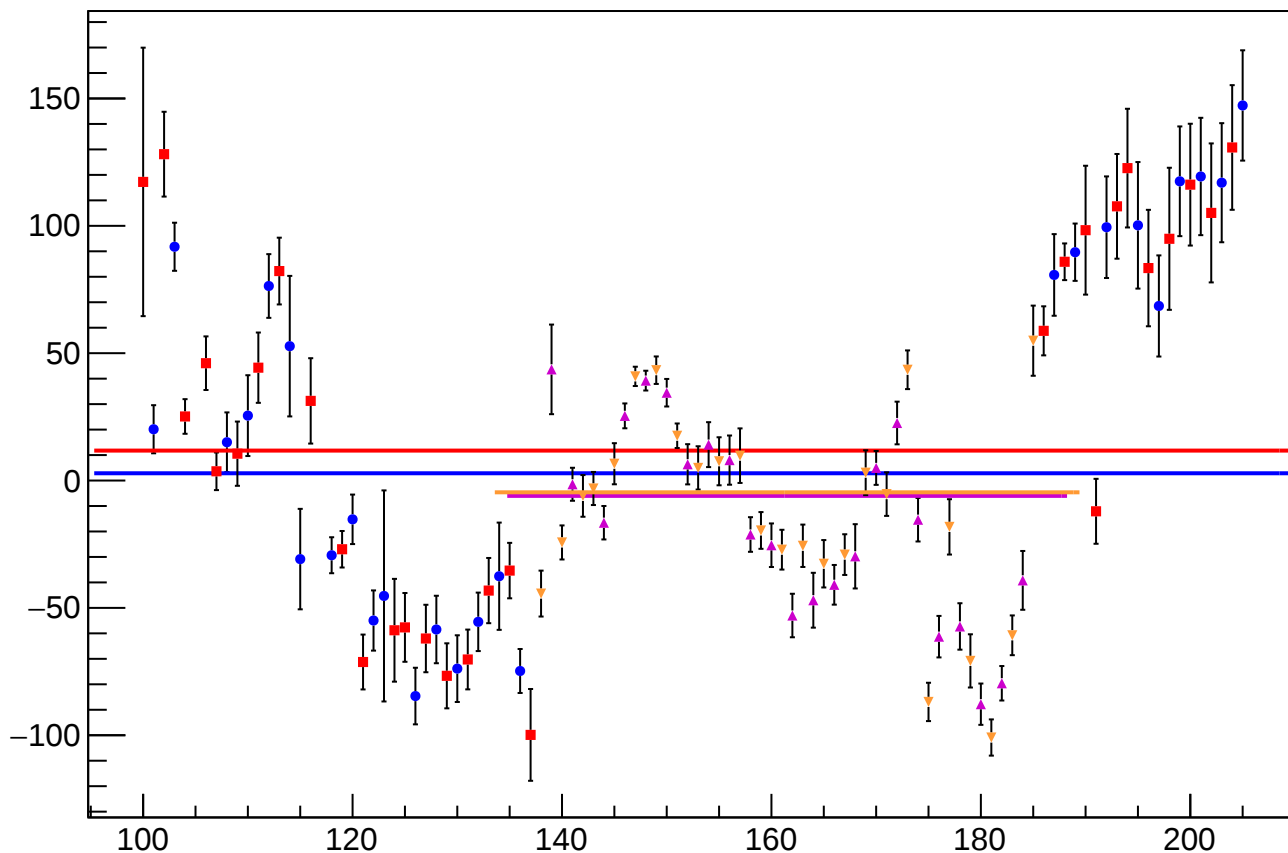
Right: -537.632+/-2.887 χ^2/NDF : 5523.6/19

In: -411.204+/-1.856 χ^2/NDF :3739.6/31

Out: -428.191+/-1.723 χ^2/NDF :8751.5/35

All: -420.328+/-1.263 χ^2/NDF : 12536.2/67

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.854 ± 2.567 $\chi^2/\text{NDF}: 668.6/25$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 11.758 ± 2.255 $\chi^2/\text{NDF}: 697.7/29$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

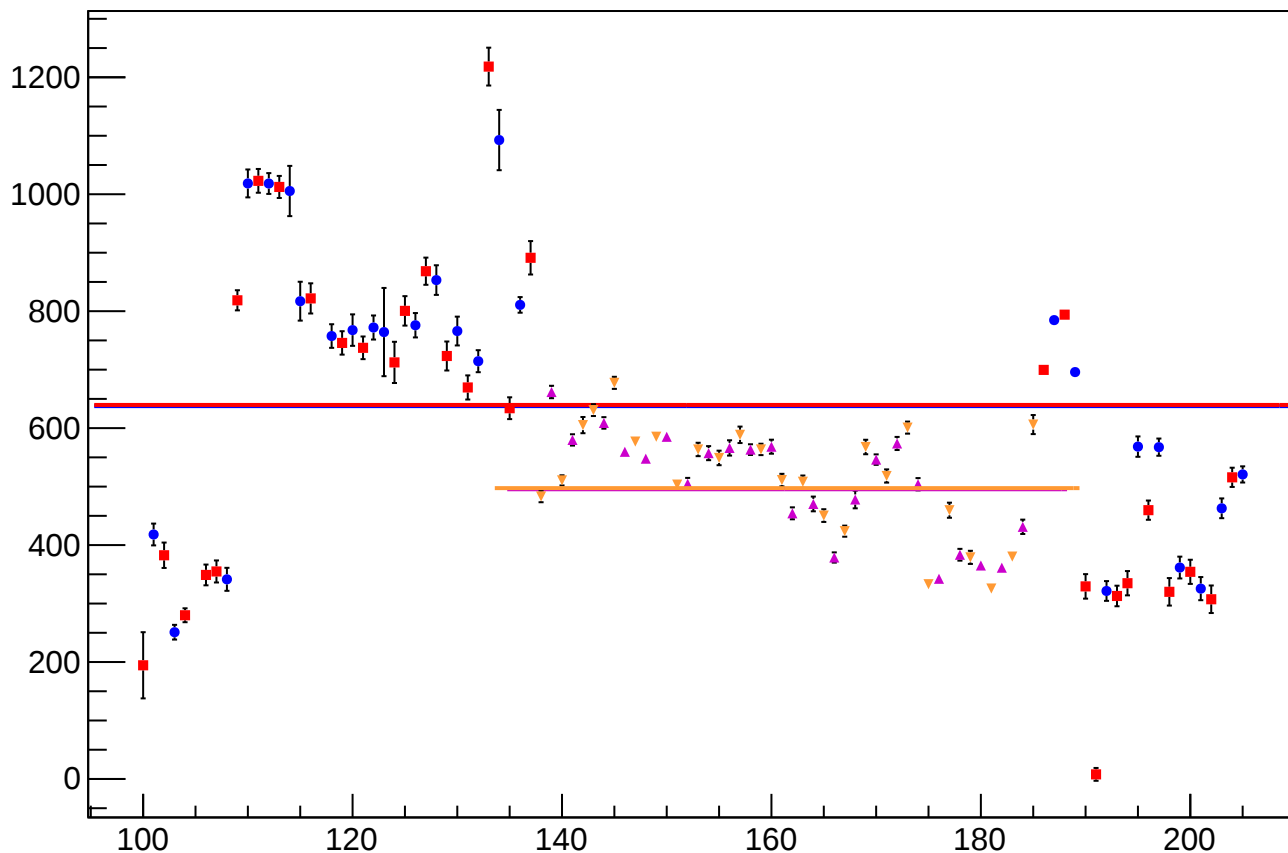
Right: 7.880 ± 1.694 $\chi^2/\text{NDF}: 1373.1/55$

In: -3.724 ± 1.306 $\chi^2/\text{NDF}: 1331.5/48$

Out: 0.224 ± 1.227 $\chi^2/\text{NDF}: 1507.7/54$

All: -1.627 ± 0.894 $\chi^2/\text{NDF}: 2844.1/103$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 637.635+/-3.265 χ^2/NDF : 4040.4/25

Left Out: 497.381+/-1.966 χ^2/NDF : 2614.6/24

Right Out: 639.665+/-2.525 χ^2/NDF : 9432.5/29

Left In: 495.454+/-1.992 χ^2/NDF : 2253.8/22

Left: 496.430+/-1.399 χ^2/NDF : 4868.9/47

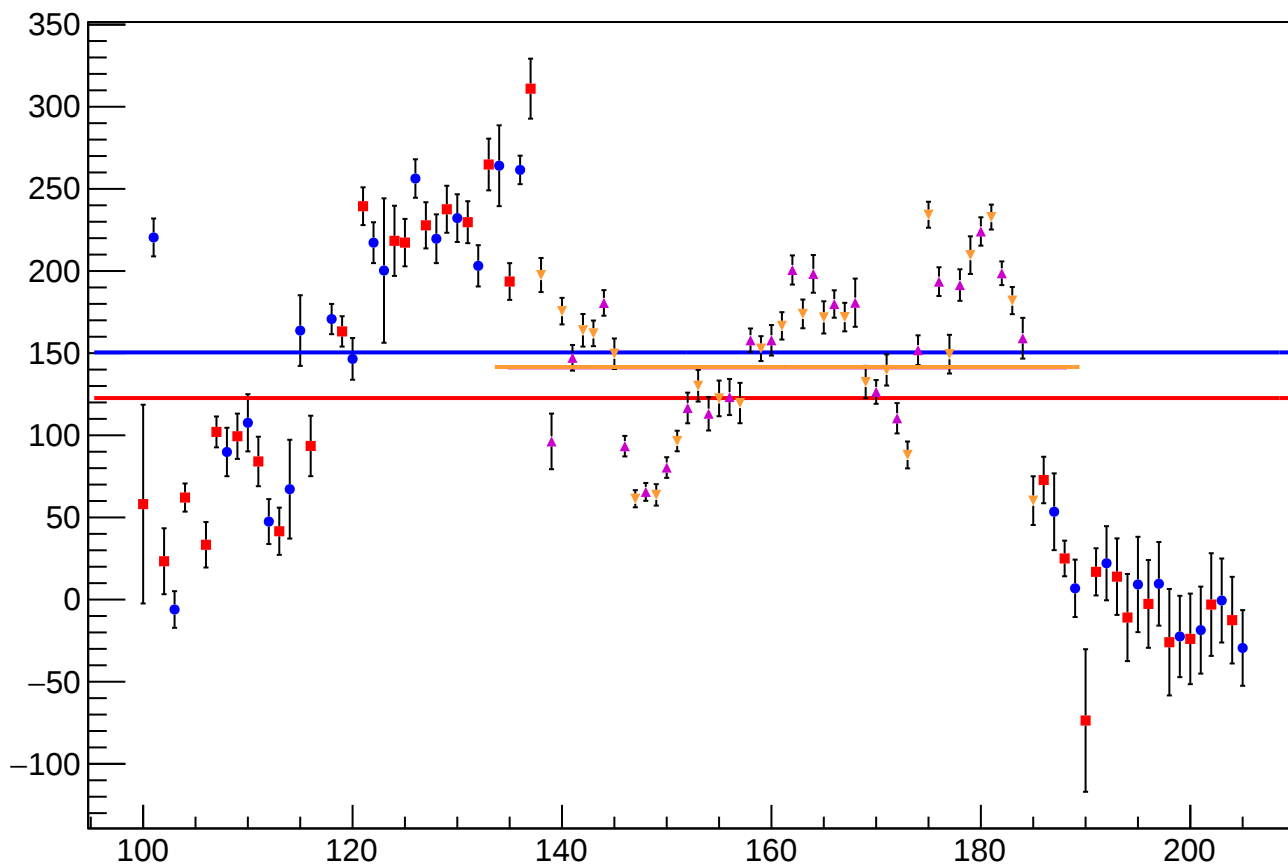
Right: 638.905+/-1.998 χ^2/NDF : 13473.2/55

In: 534.032+/-1.701 χ^2/NDF : 7676.3/48

Out: 551.067+/-1.551 χ^2/NDF : 14023.6/54

All: 543.330+/-1.146 χ^2/NDF : 21754.7/103

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 150.454 $\pm$ 2.999 χ^2 /NDF: 1051.9/25

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 122.672 $\pm$ 2.711 χ^2 /NDF: 1099.6/29

Left In: 141.360 $\pm$ 1.748 χ^2 /NDF:741.2/22

Left: 141.478 $\pm$ 1.218 χ^2 /NDF: 1700.8/47

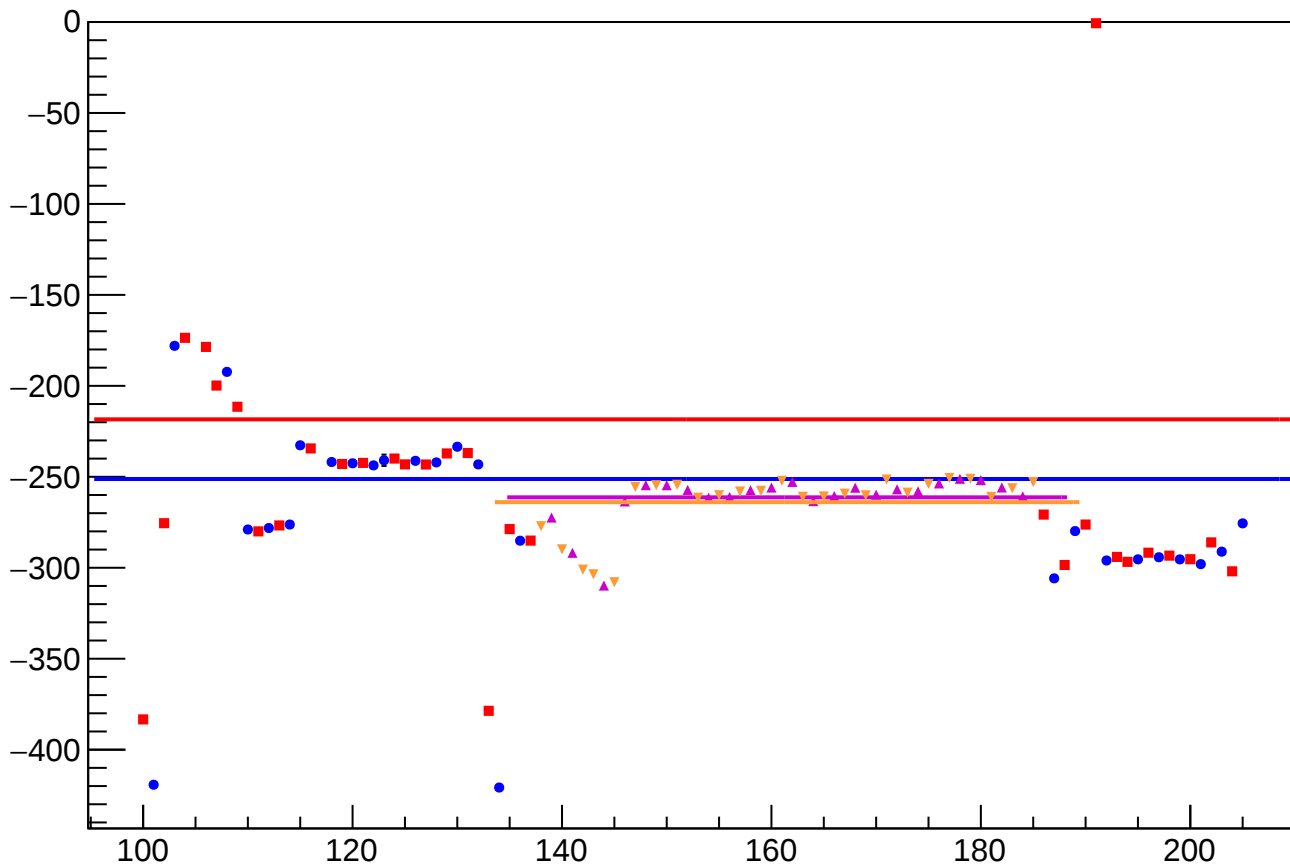
Right: 135.168 $\pm$ 2.011 χ^2 /NDF: 2198.7/55

In: 143.667 $\pm$ 1.510 χ^2 /NDF:1800.0/48

Out: 136.257 $\pm$ 1.439 χ^2 /NDF:2094.1/54

All: 139.784 $\pm$ 1.042 χ^2 /NDF: 3906.8/103

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -251.200+/-0.140 χ^2/NDF : 195259.2/25

Left Out: -263.943+/-0.081 χ^2/NDF : 39085.0/24

Right Out: -218.412+/-0.125 χ^2/NDF : 490875.9/29

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

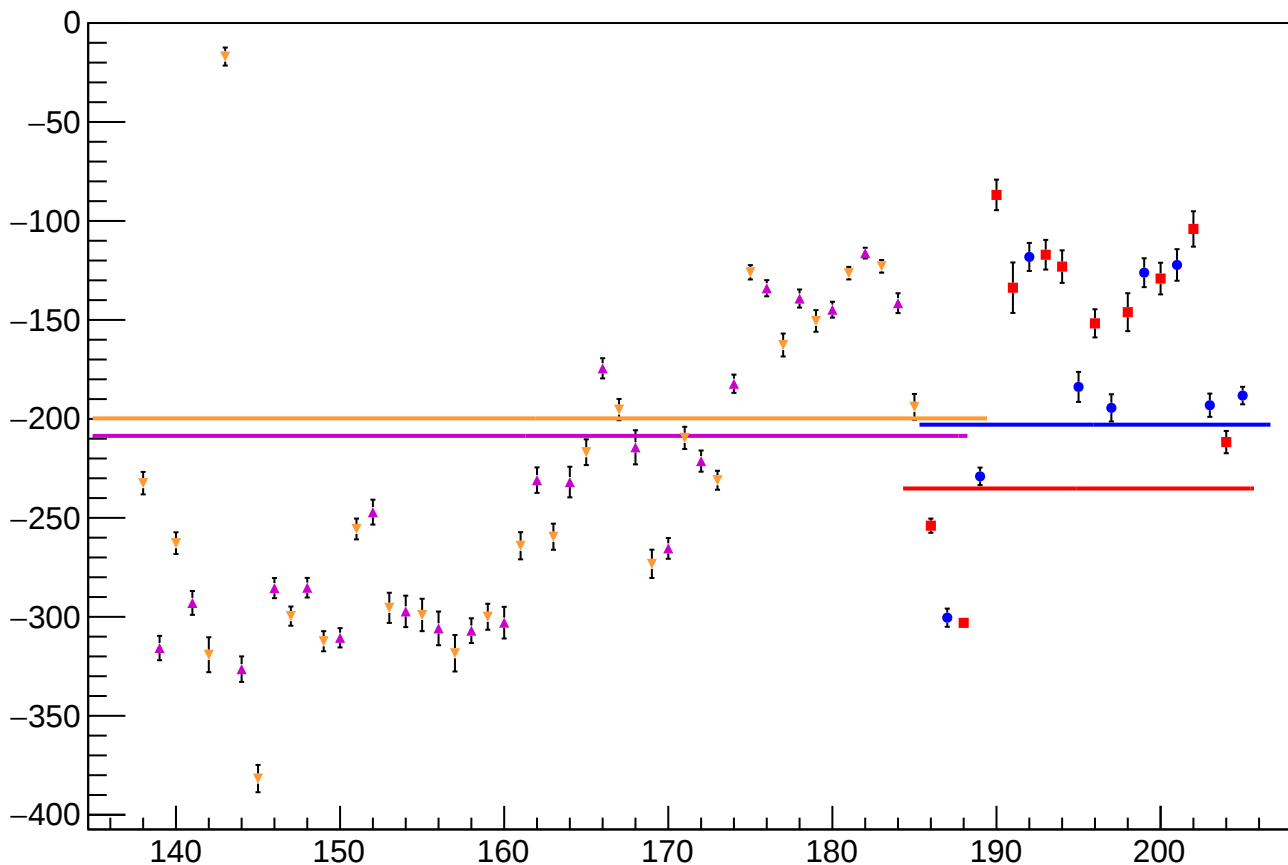
Right: -232.903+/-0.093 χ^2/NDF : 716682.7/55

In: -258.715+/-0.071 χ^2/NDF : 222467.3/48

Out: -250.377+/-0.068 χ^2/NDF : 623536.6/54

All: -254.385+/-0.049 χ^2/NDF : 853215.7/103

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -202.916 ± 1.919 χ^2/NDF : 863.9/8

Left Out: -199.741 ± 1.061 χ^2/NDF : 6361.5/24

Right Out: -235.153 ± 1.578 χ^2/NDF : 2347.6/10

Left In: -208.579 ± 1.082 χ^2/NDF : 4805.1/22

Left: -204.073 ± 0.758 χ^2/NDF : 11200.6/47

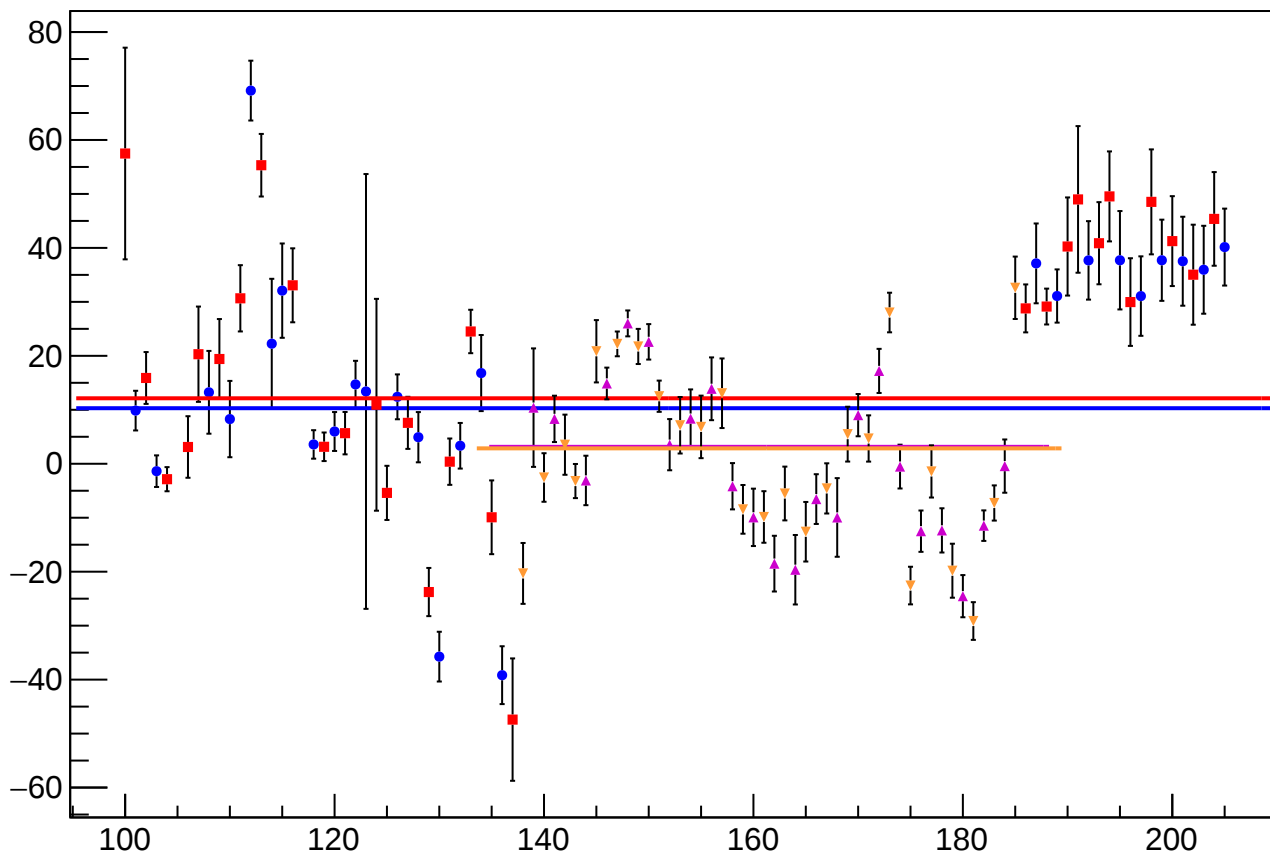
Right: -222.146 ± 1.219 χ^2/NDF : 3380.0/19

In: -207.212 ± 0.943 χ^2/NDF : 5675.7/31

Out: -210.768 ± 0.881 χ^2/NDF : 9055.9/35

All: -209.111 ± 0.643 χ^2/NDF : 14739.2/67

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.294 $\pm$ 1.004 χ^2 /NDF: 448.9/25

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF:419.8/24

Right Out: 12.133 $\pm$ 0.941 χ^2 /NDF: 419.4/29

Left In: 3.136 $\pm$ 0.857 χ^2 /NDF:319.8/22

Left: 2.988 $\pm$ 0.592 χ^2 /NDF: 739.7/47

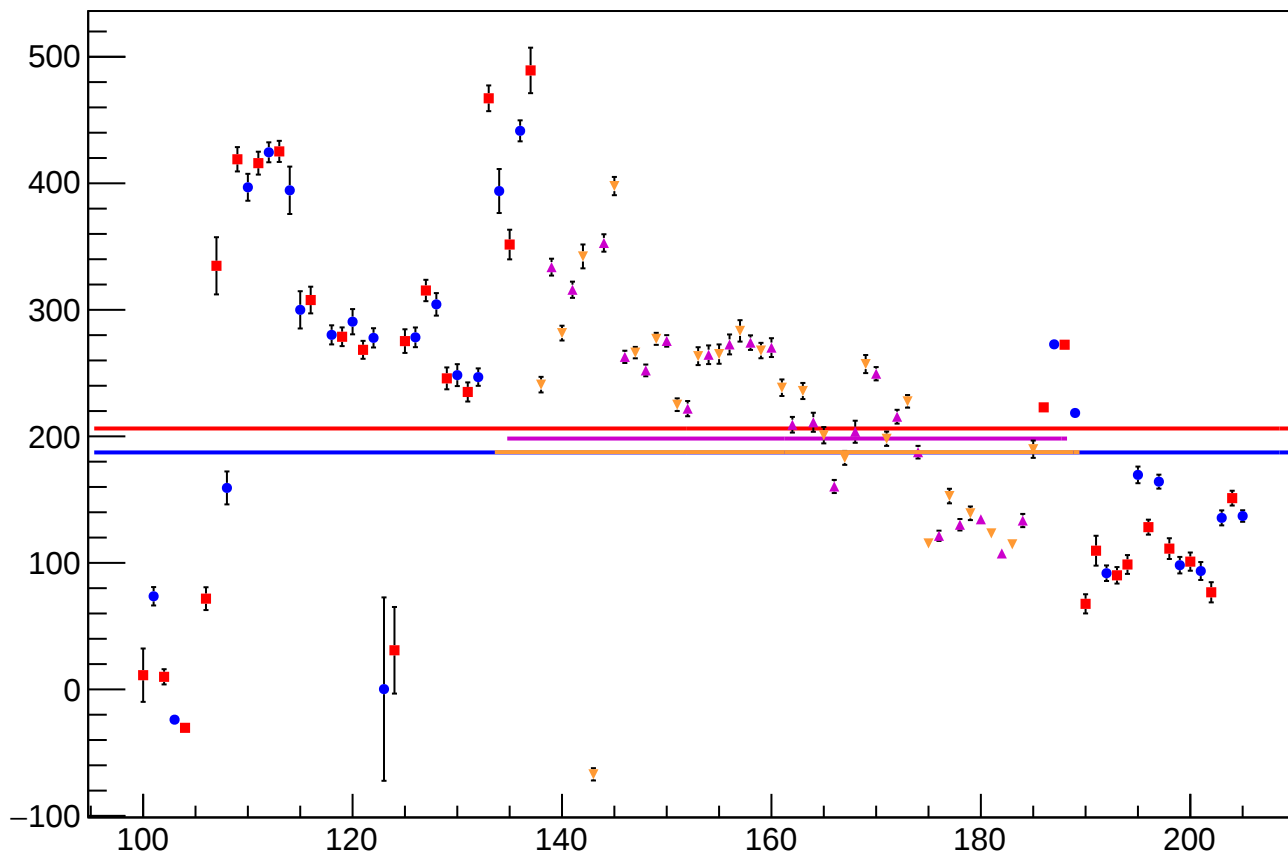
Right: 11.273 $\pm$ 0.687 χ^2 /NDF: 870.1/55

In: 6.151 $\pm$ 0.652 χ^2 /NDF:798.1/48

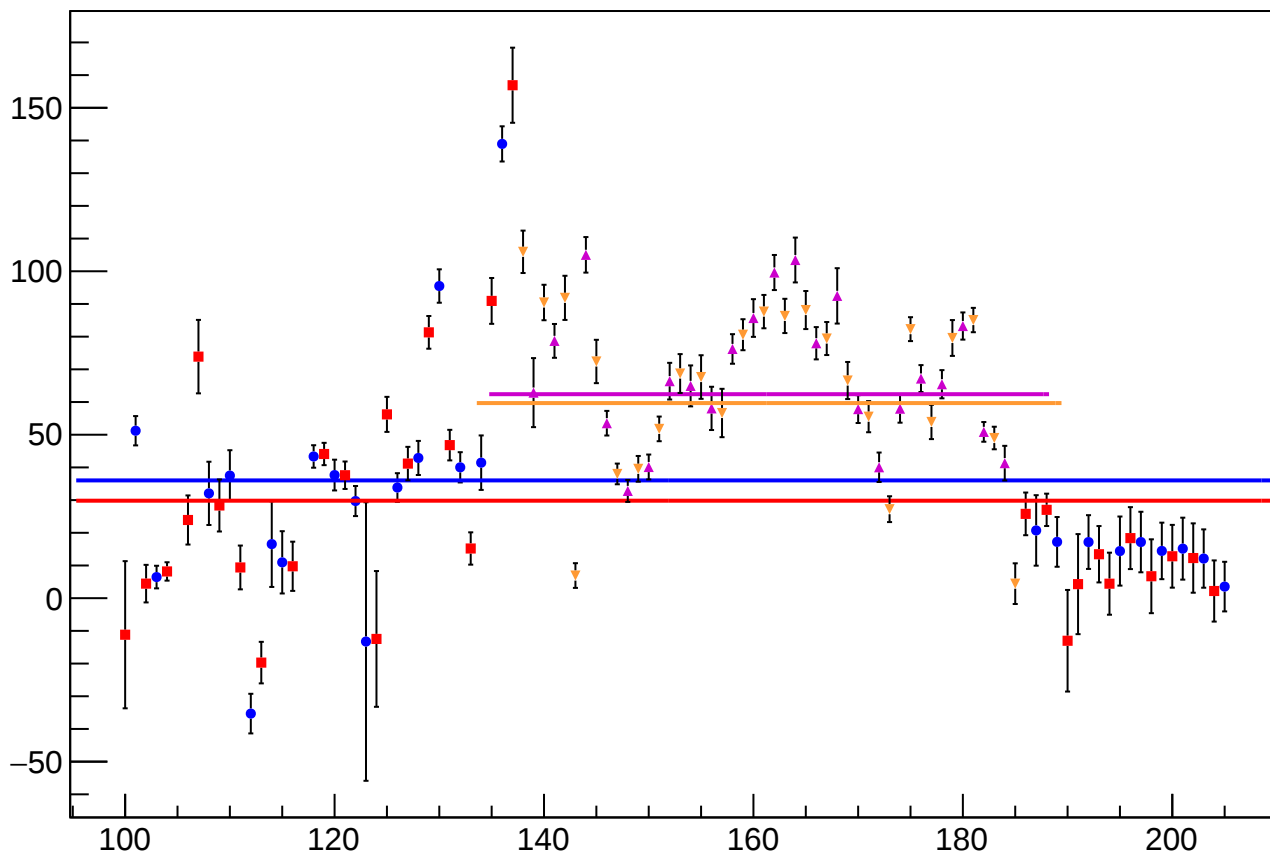
Out: 6.857 $\pm$ 0.618 χ^2 /NDF:894.5/54

All: 6.522 $\pm$ 0.449 χ^2 /NDF: 1693.2/103

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.025 ± 1.178 $\chi^2/\text{NDF}: 802.8/25$

Left Out: 59.682 ± 0.941 $\chi^2/\text{NDF}: 757.6/24$

Right Out: 29.820 ± 1.129 $\chi^2/\text{NDF}: 597.9/29$

Left In: 62.400 ± 0.974 $\chi^2/\text{NDF}: 406.3/22$

Left: 60.993 ± 0.677 $\chi^2/\text{NDF}: 1167.9/47$

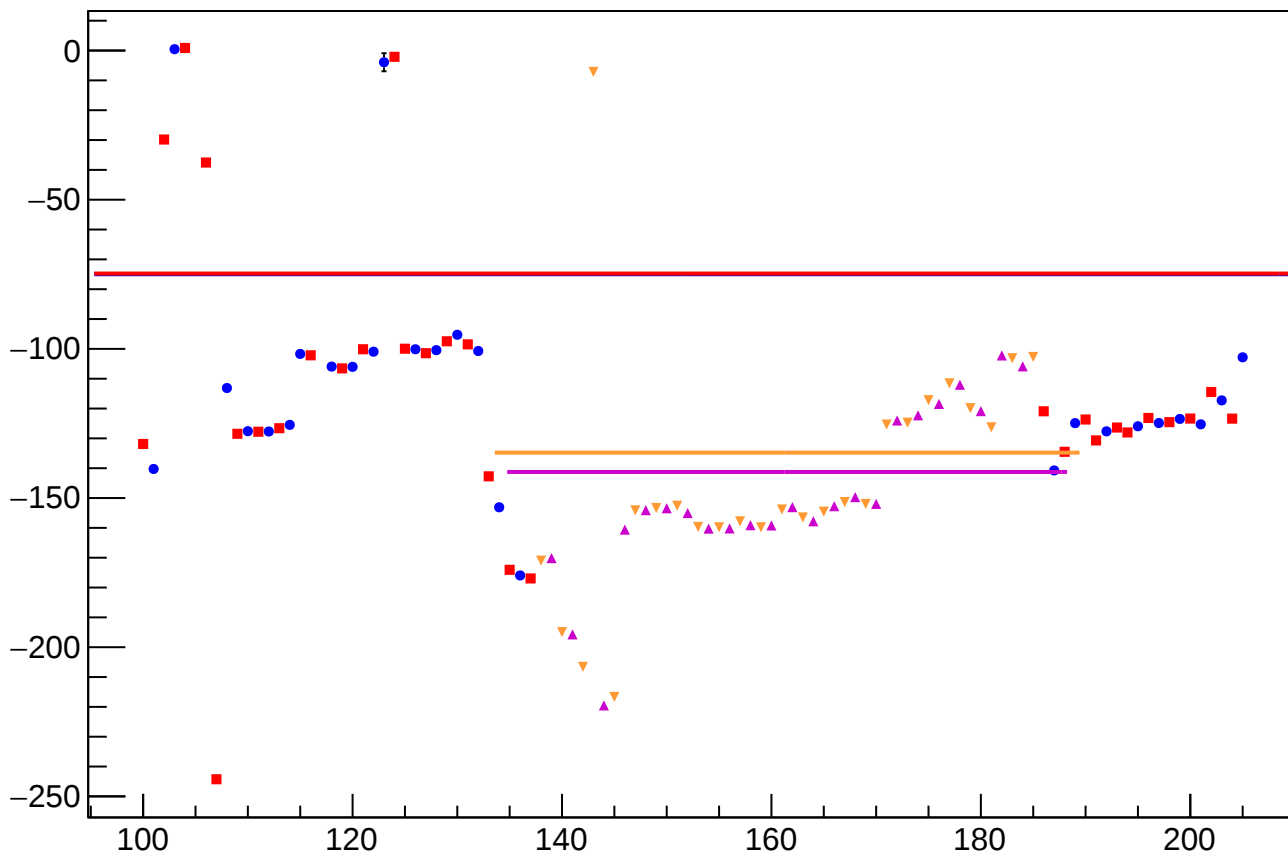
Right: 32.790 ± 0.815 $\chi^2/\text{NDF}: 1415.2/55$

In: 51.687 ± 0.751 $\chi^2/\text{NDF}: 1506.9/48$

Out: 47.442 ± 0.723 $\chi^2/\text{NDF}: 1768.5/54$

All: 49.484 ± 0.521 $\chi^2/\text{NDF}: 3292.0/103$

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -74.975 $\pm$ 0.053 χ^2 /NDF: 1399116.7/25

Left Out: -134.780 $\pm$ 0.045 χ^2 /NDF: 804747.3/24

Right Out: -74.749 $\pm$ 0.051 χ^2 /NDF: 1391829.0/29

Left In: -141.255 $\pm$ 0.045 χ^2 /NDF: 347229.8/22

Left: -137.961 $\pm$ 0.032 χ^2 /NDF: 1162377.9/47

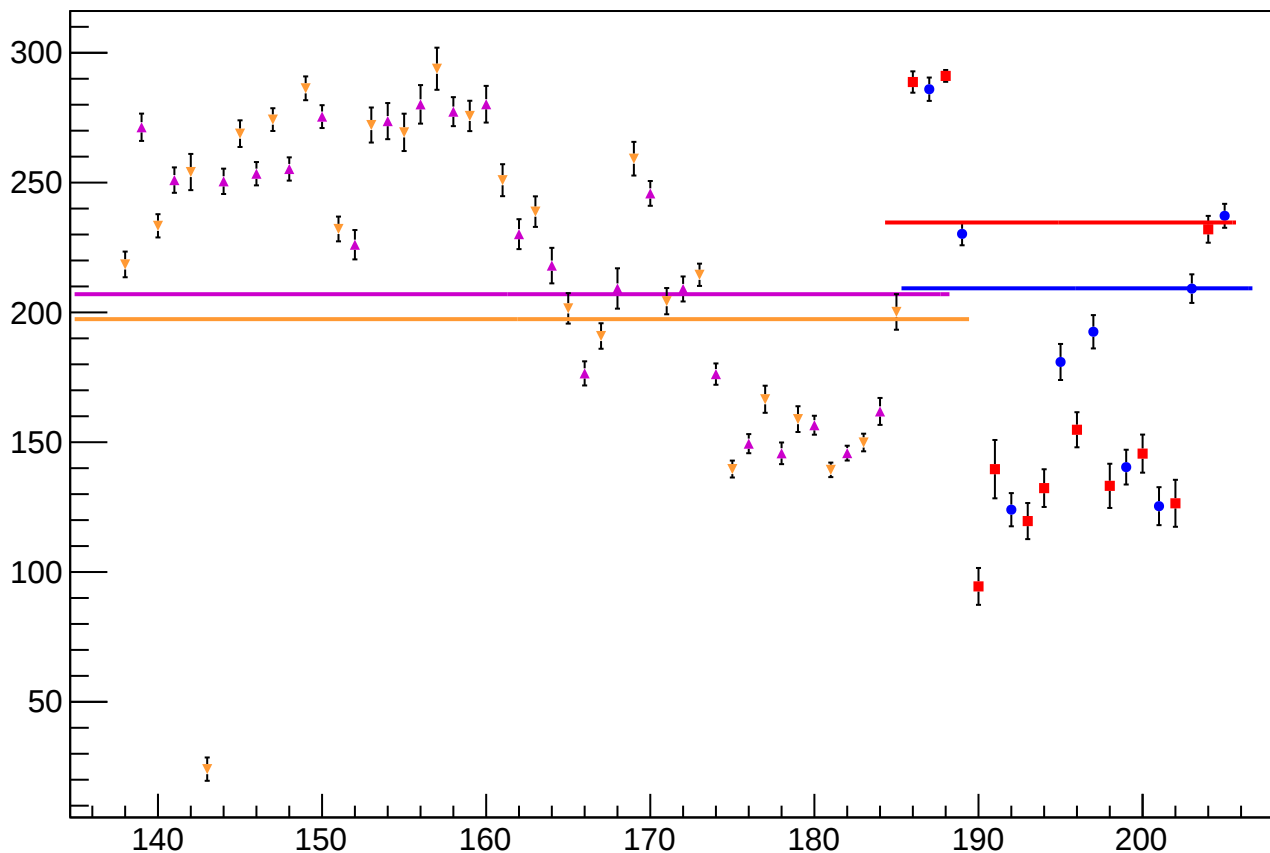
Right: -74.858 $\pm$ 0.037 χ^2 /NDF: 2790955.1/55

In: -113.304 $\pm$ 0.034 χ^2 /NDF: 2649519.7/48

Out: -108.858 $\pm$ 0.034 χ^2 /NDF: 2982300.6/54

All: -111.022 $\pm$ 0.024 χ^2 /NDF: 5640371.4/100

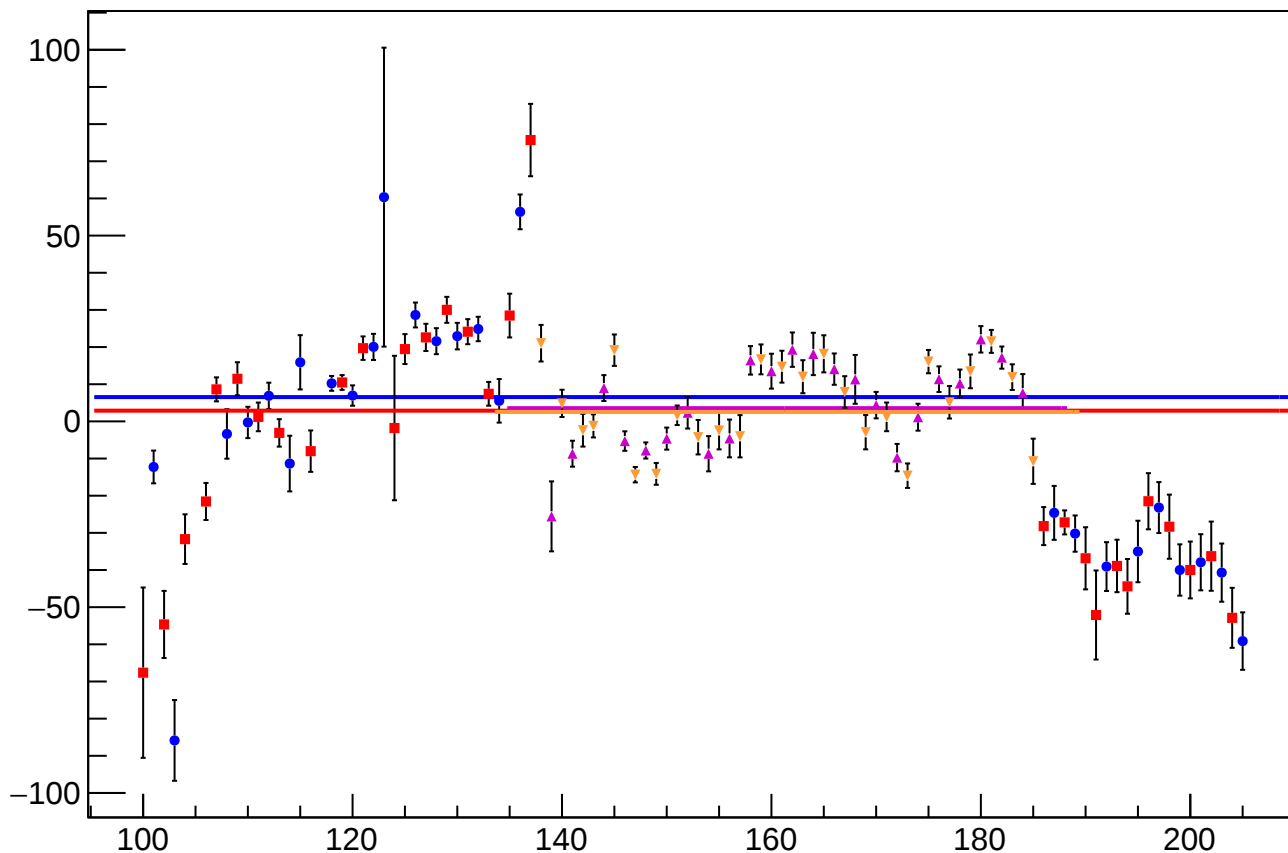
reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 209.280 ± 1.852 $\chi^2/\text{NDF}: 788.8/8$
 Left Out: 197.408 ± 0.963 $\chi^2/\text{NDF}: 4384.2/24$
 Right Out: 234.635 ± 1.538 $\chi^2/\text{NDF}: 2292.1/10$
 Left In: 207.014 ± 0.990 $\chi^2/\text{NDF}: 2611.5/22$

Left: 202.077 ± 0.690 $\chi^2/\text{NDF}: 7044.1/47$
 Right: 224.288 ± 1.183 $\chi^2/\text{NDF}: 3191.9/19$
 In: 207.518 ± 0.873 $\chi^2/\text{NDF}: 3401.5/31$
 Out: 207.895 ± 0.816 $\chi^2/\text{NDF}: 7097.4/35$
 All: 207.719 ± 0.596 $\chi^2/\text{NDF}: 10499.0/67$

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.539 ± 0.868 $\chi^2/\text{NDF}: 706.2/25$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 2.887 ± 0.827 $\chi^2/\text{NDF}: 743.6/29$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

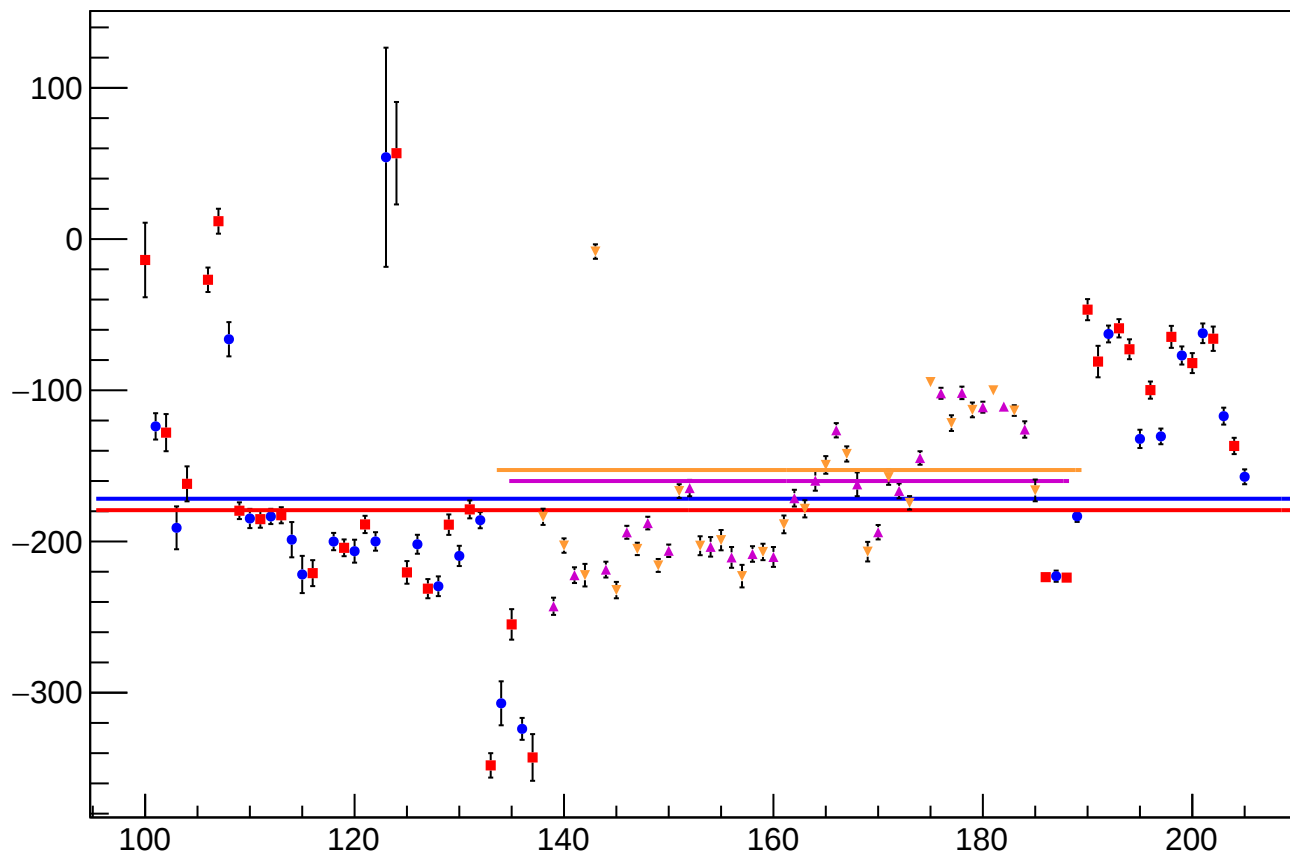
Right: 4.624 ± 0.598 $\chi^2/\text{NDF}: 1459.1/55$

In: 4.879 ± 0.578 $\chi^2/\text{NDF}: 904.7/48$

Out: 2.699 ± 0.552 $\chi^2/\text{NDF}: 1019.1/54$

All: 3.739 ± 0.399 $\chi^2/\text{NDF}: 1931.3/103$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.733 ± 1.216 $\chi^2/\text{NDF}: 2225.5/25$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -179.286 ± 1.033 $\chi^2/\text{NDF}: 4558.9/29$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

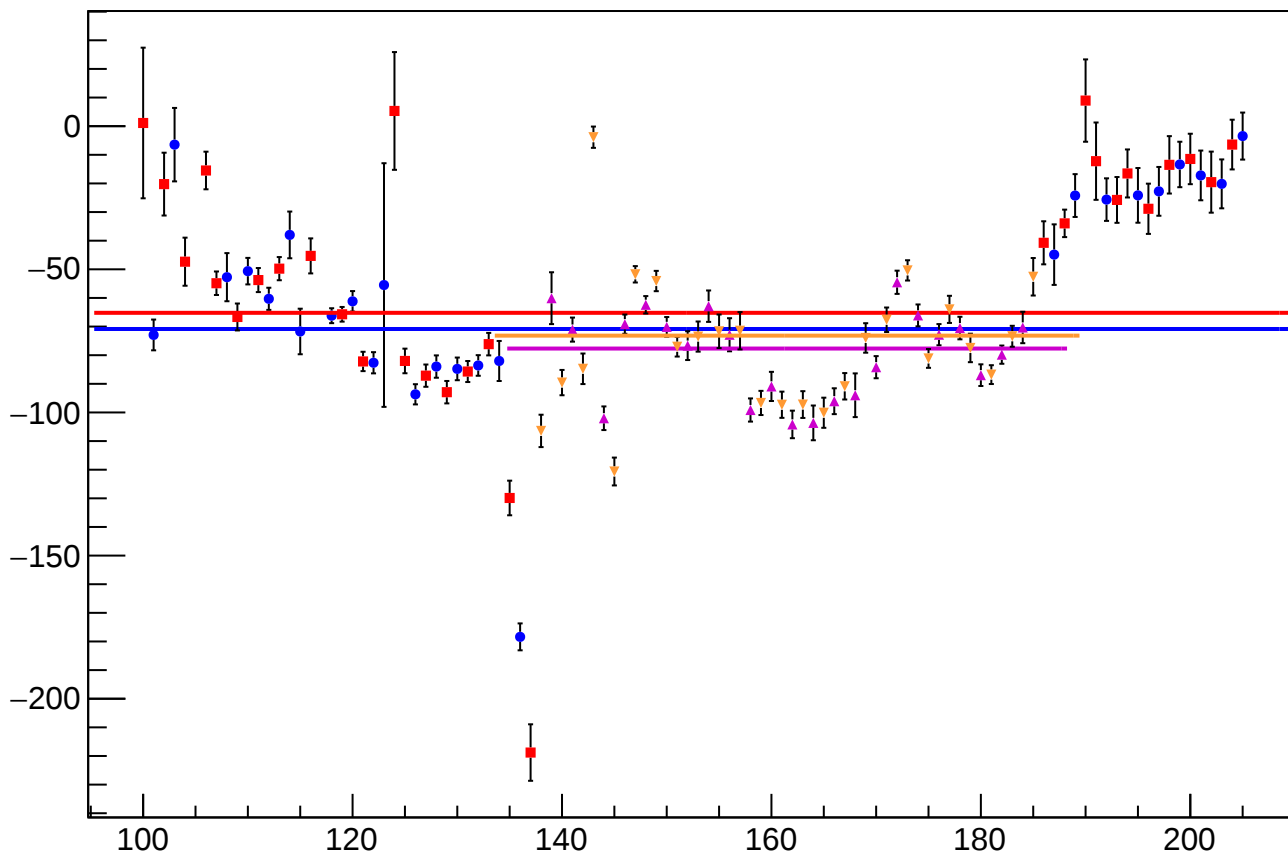
Right: -176.120 ± 0.787 $\chi^2/\text{NDF}: 6806.8/55$

In: -164.681 ± 0.767 $\chi^2/\text{NDF}: 4305.8/48$

Out: -165.135 ± 0.706 $\chi^2/\text{NDF}: 7988.7/54$

All: -164.927 ± 0.520 $\chi^2/\text{NDF}: 12294.6/103$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -70.846 ± 1.011 χ^2/NDF : 1028.2/25

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -65.197 ± 0.971 χ^2/NDF : 951.9/29

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

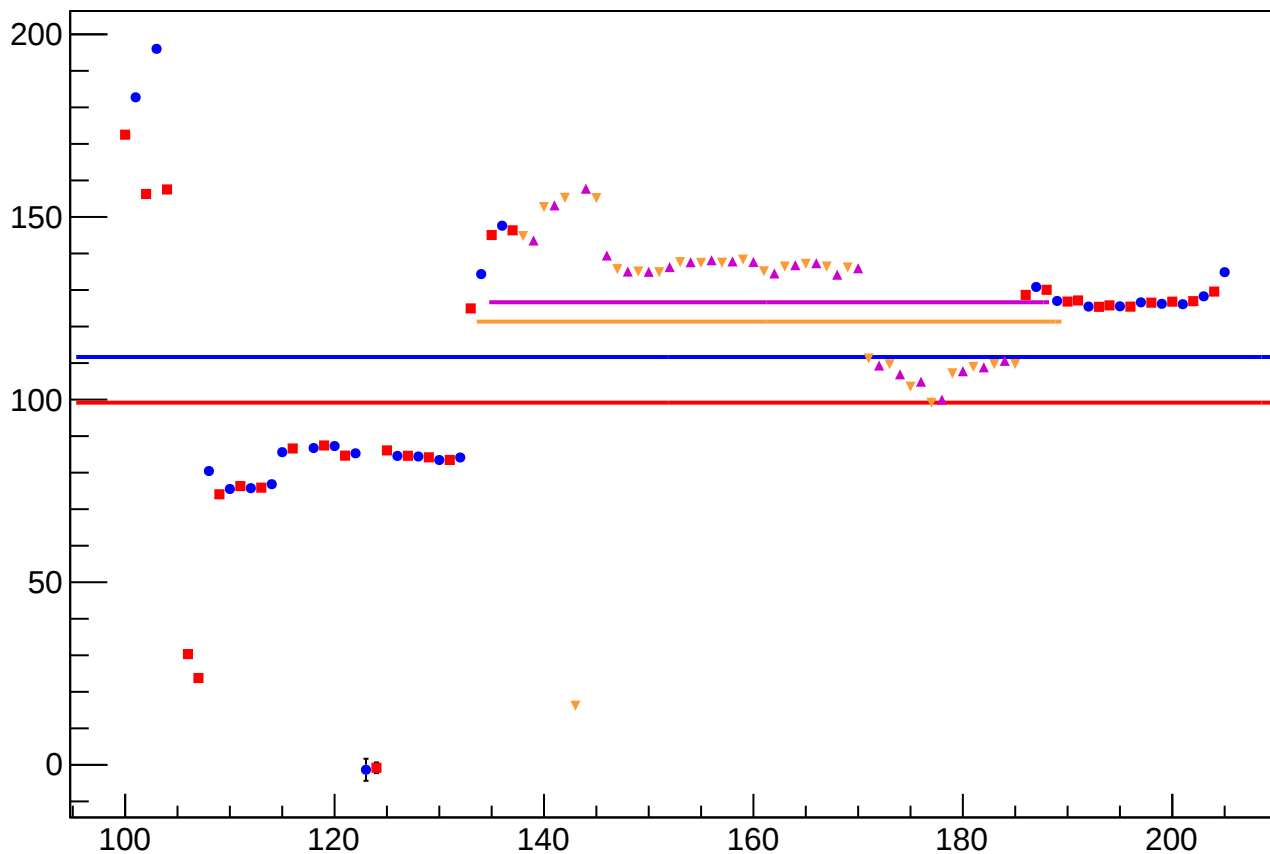
Right: -67.909 ± 0.700 χ^2/NDF : 1996.3/55

In: -74.722 ± 0.665 χ^2/NDF : 1302.4/48

Out: -69.704 ± 0.640 χ^2/NDF : 1778.5/54

All: -72.118 ± 0.461 χ^2/NDF : 3110.5/103

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.659+/-0.057 χ^2/NDF : 310877.3/25

Left Out: 121.356+/-0.040 χ^2/NDF : 481977.3/24

Right Out: 99.167+/-0.052 χ^2/NDF : 568262.4/29

Left In: 126.653+/-0.041 χ^2/NDF : 163046.1/22

Left: 123.954+/-0.029 χ^2/NDF : 653496.6/47

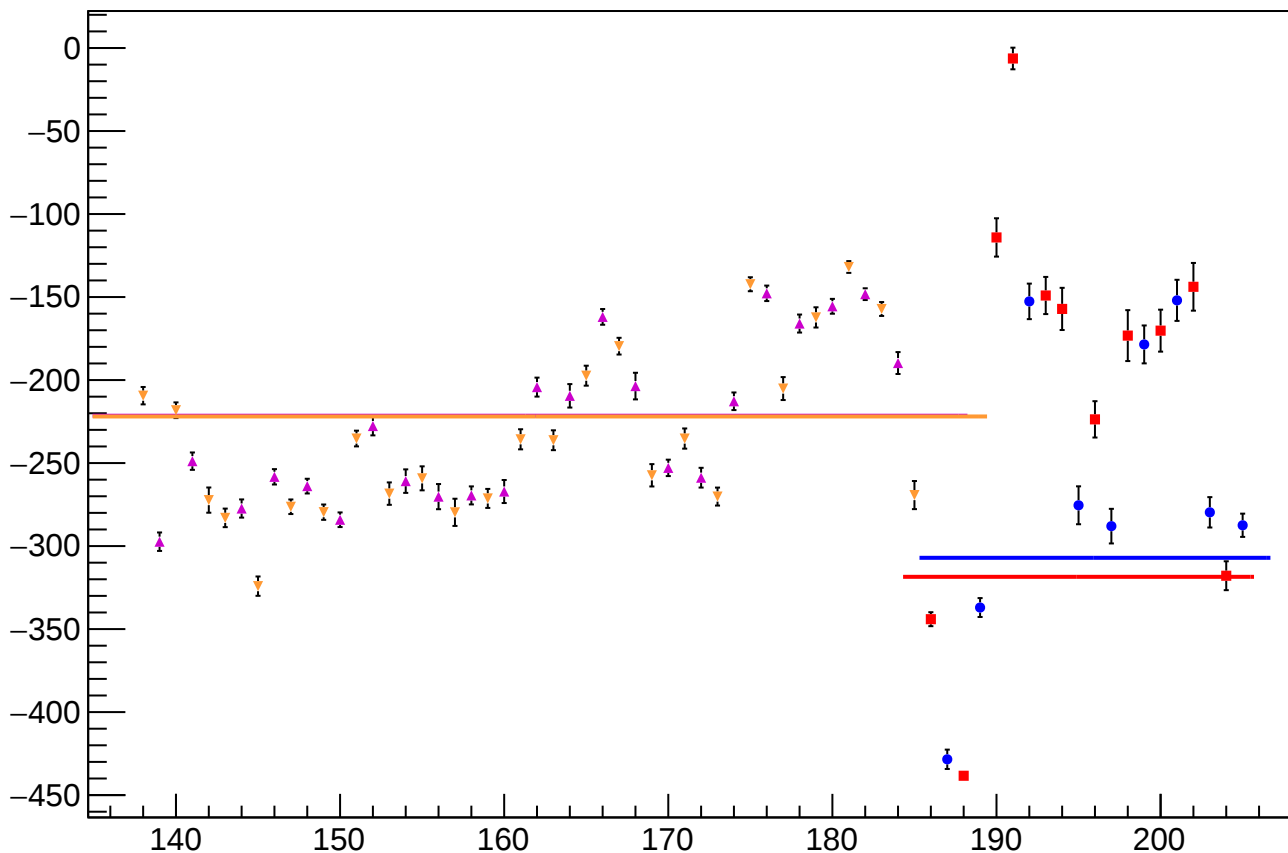
Right: 104.804+/-0.039 χ^2/NDF : 905193.2/55

In: 121.567+/-0.033 χ^2/NDF : 519114.5/48

Out: 113.027+/-0.032 χ^2/NDF : 1164012.5/54

All: 117.096+/-0.023 χ^2/NDF : 1717376.8/103

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -307.066 ± 2.748 χ^2/NDF : 980.6/8

Left Out: -221.934 ± 1.084 χ^2/NDF : 2578.4/24

Right Out: -318.518 ± 2.012 χ^2/NDF : 5043.2/10

Left In: -221.483 ± 1.102 χ^2/NDF : 2149.8/22

Left: -221.712 ± 0.773 χ^2/NDF : 4728.2/47

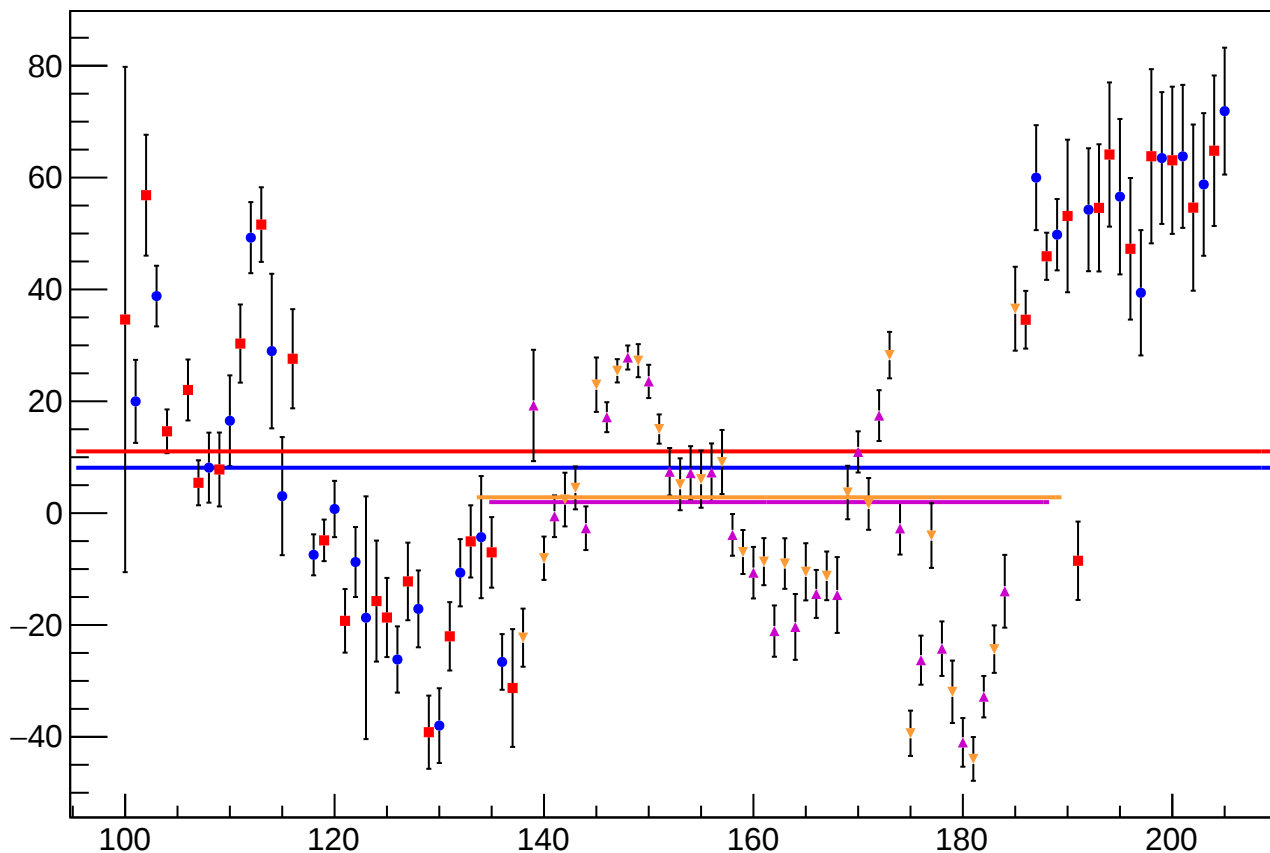
Right: -314.523 ± 1.623 χ^2/NDF : 6035.1/19

In: -233.341 ± 1.023 χ^2/NDF : 3965.7/31

Out: -243.683 ± 0.955 χ^2/NDF : 9407.8/35

All: -238.870 ± 0.698 χ^2/NDF : 13428.2/67

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.119 ± 1.405 $\chi^2/\text{NDF}: 462.7/25$

Left Out: 2.832 ± 0.807 $\chi^2/\text{NDF}: 686.9/24$

Right Out: 11.040 ± 1.223 $\chi^2/\text{NDF}: 471.9/29$

Left In: 1.969 ± 0.835 $\chi^2/\text{NDF}: 589.1/22$

Left: 2.415 ± 0.580 $\chi^2/\text{NDF}: 1276.5/47$

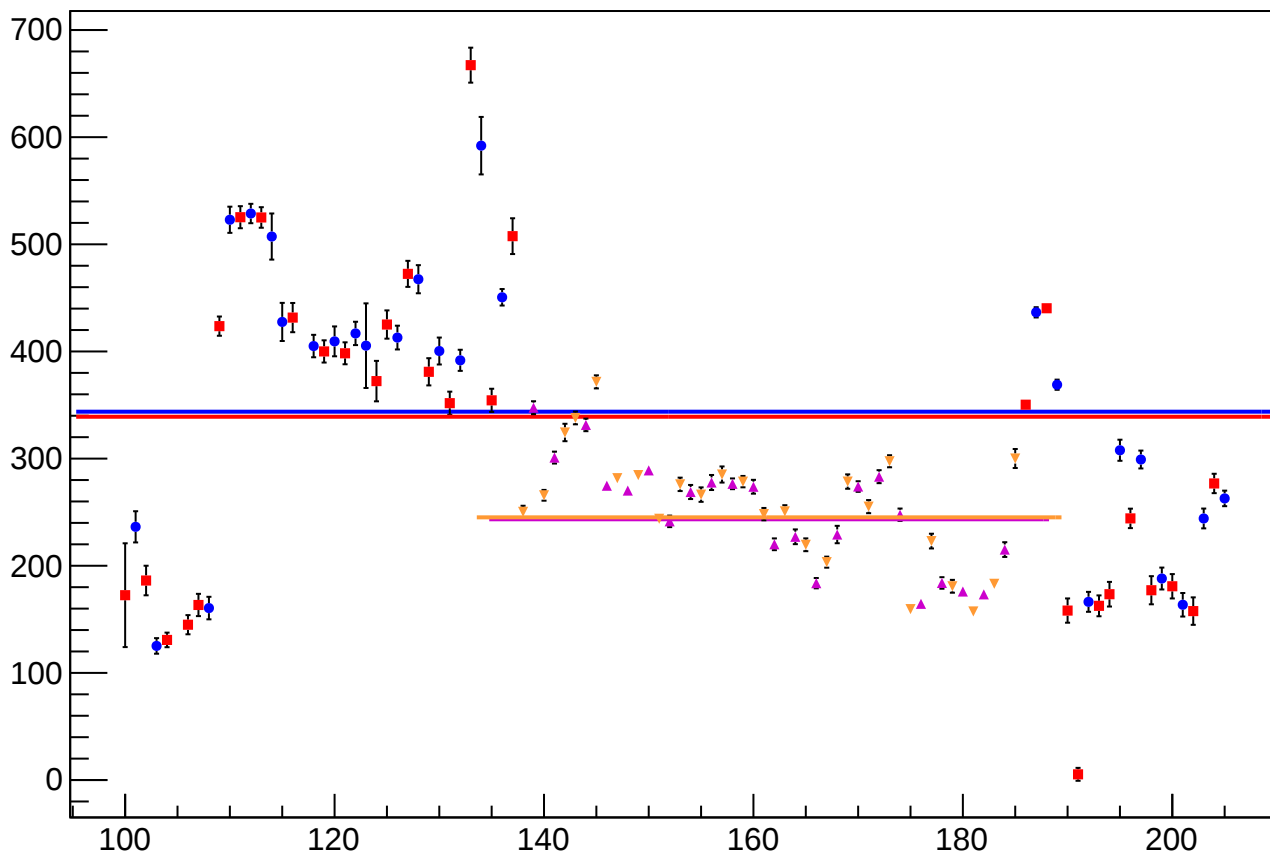
Right: 9.781 ± 0.922 $\chi^2/\text{NDF}: 937.1/55$

In: 3.573 ± 0.718 $\chi^2/\text{NDF}: 1065.9/48$

Out: 5.323 ± 0.674 $\chi^2/\text{NDF}: 1190.2/54$

All: 4.503 ± 0.491 $\chi^2/\text{NDF}: 2259.3/103$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 343.791 $\pm$ 1.820 χ^2 /NDF: 4081.3/25

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 339.074 $\pm$ 1.406 χ^2 /NDF: 9702.7/29

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

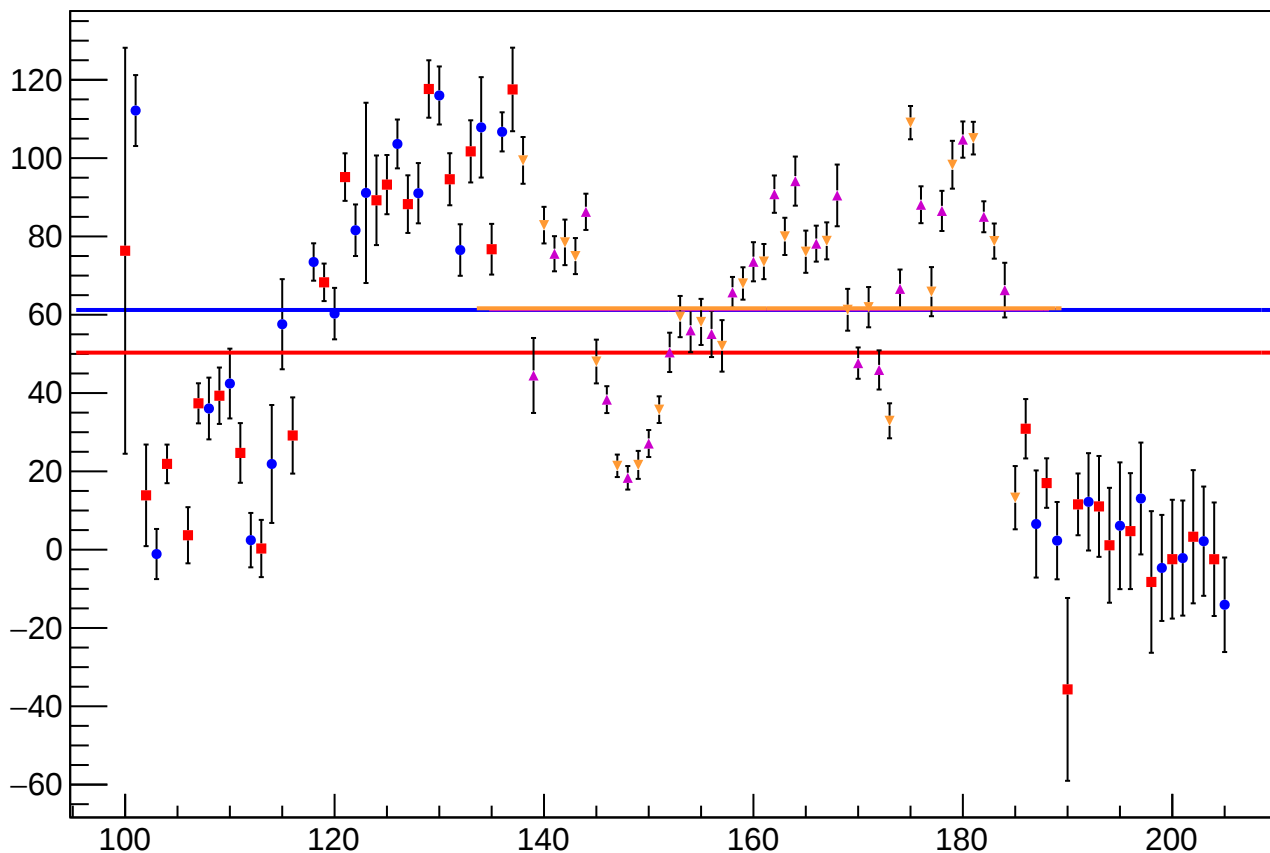
Right: 340.836 $\pm$ 1.113 χ^2 /NDF: 13788.2/55

In: 270.001 $\pm$ 0.937 χ^2 /NDF:8554.4/48

Out: 280.117 $\pm$ 0.857 χ^2 /NDF:15102.0/54

All: 275.509 $\pm$ 0.633 χ^2 /NDF: 23719.8/103

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 61.219+/-1.638 χ^2/NDF : 643.9/25

Left Out: 61.647+/-0.936 χ^2/NDF : 871.5/24

Right Out: 50.323+/-1.465 χ^2/NDF : 666.6/29

Left In: 61.375+/-0.961 χ^2/NDF : 699.7/22

Left: 61.515+/-0.671 χ^2/NDF : 1571.3/47

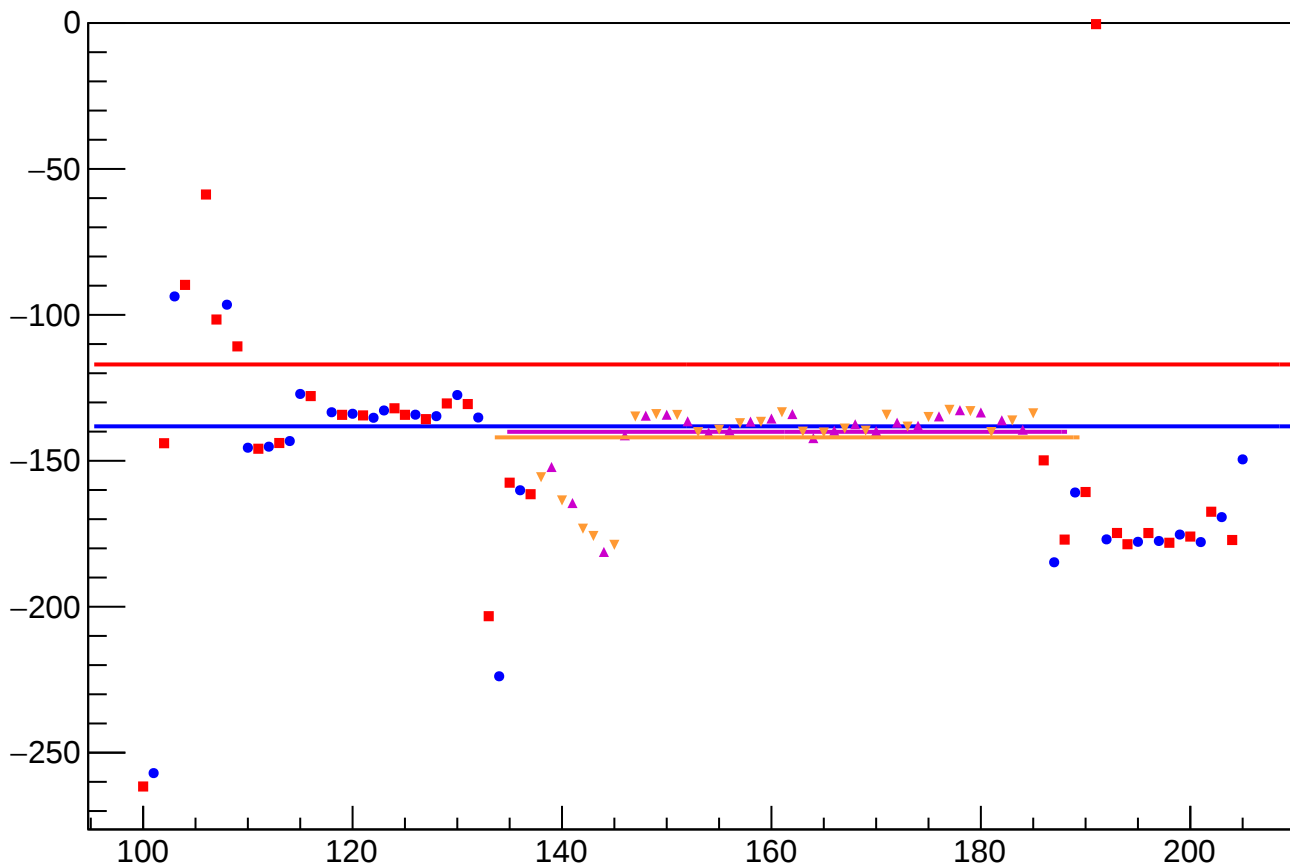
Right: 55.165+/-1.092 χ^2/NDF : 1335.1/55

In: 61.335+/-0.829 χ^2/NDF : 1343.6/48

Out: 58.363+/-0.789 χ^2/NDF : 1580.6/54

All: 59.776+/-0.571 χ^2/NDF : 2930.9/103

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -138.193 ± 0.078 $\chi^2/\text{NDF}: 233021.3/25$

Left Out: -141.969 ± 0.045 $\chi^2/\text{NDF}: 80252.6/24$

Right Out: -116.988 ± 0.069 $\chi^2/\text{NDF}: 606804.1/29$

Left In: -140.068 ± 0.045 $\chi^2/\text{NDF}: 48030.7/22$

Left: -141.025 ± 0.032 $\chi^2/\text{NDF}: 129181.1/47$

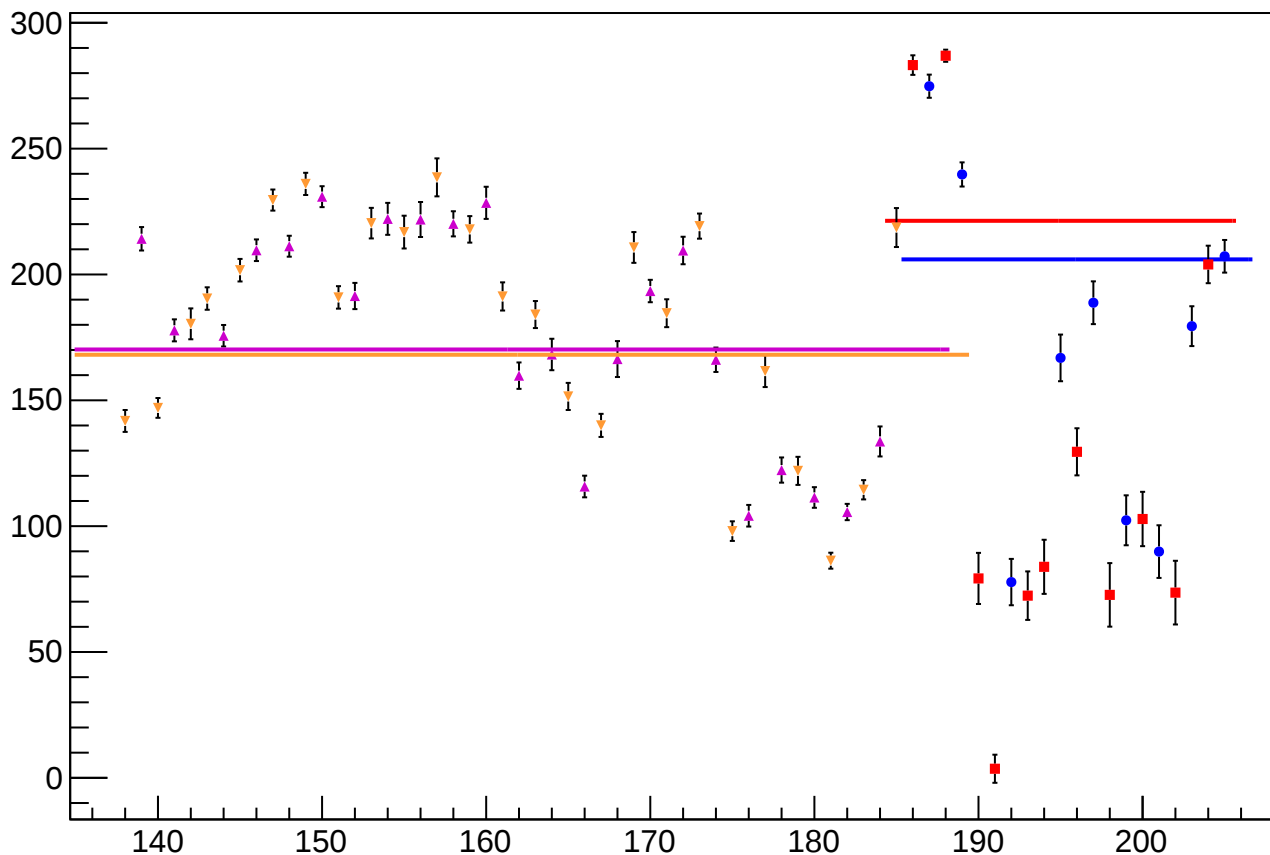
Right: -126.224 ± 0.052 $\chi^2/\text{NDF}: 881485.8/55$

In: -139.600 ± 0.039 $\chi^2/\text{NDF}: 281485.4/48$

Out: -134.518 ± 0.037 $\chi^2/\text{NDF}: 780210.0/54$

All: -136.957 ± 0.027 $\chi^2/\text{NDF}: 1070534.8/10$

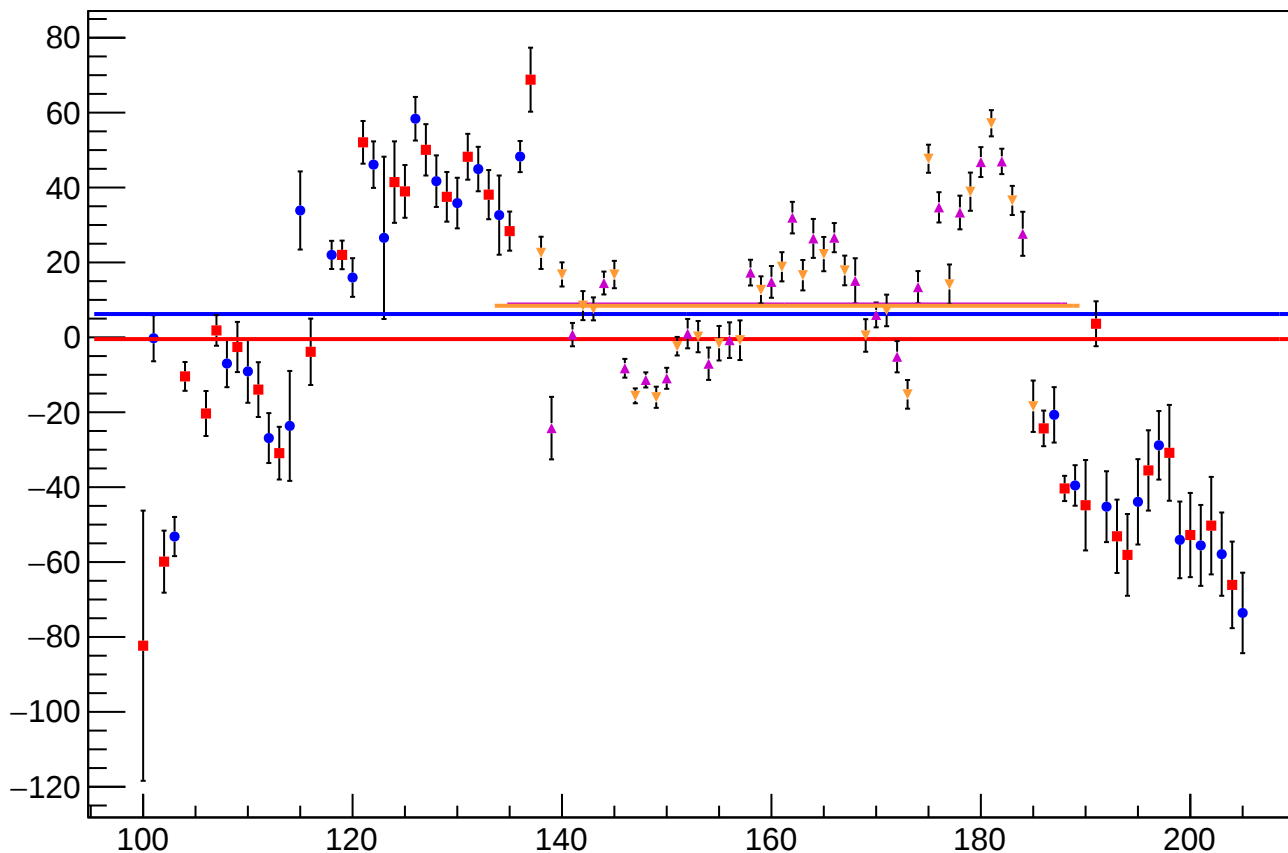
reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 205.994 $\pm$ 2.313 χ^2 /NDF: 732.5/8
 Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24
 Right Out: 221.324 $\pm$ 1.690 χ^2 /NDF: 3609.1/10
 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: 215.987 $\pm$ 1.365 χ^2 /NDF: 4370.2/19
 In: 175.792 $\pm$ 0.914 χ^2 /NDF:2959.0/31
 Out: 181.296 $\pm$ 0.841 χ^2 /NDF:6823.6/35
 All: 178.772 $\pm$ 0.619 χ^2 /NDF: 9802.3/67

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.223 ± 1.335 χ^2/NDF : 818.2/25

Left Out: 8.436 ± 0.728 χ^2/NDF : 752.0/24

Right Out: -0.466 ± 1.164 χ^2/NDF : 864.6/29

Left In: 8.769 ± 0.758 χ^2/NDF : 626.8/22

Left: 8.596 ± 0.525 χ^2/NDF : 1379.0/47

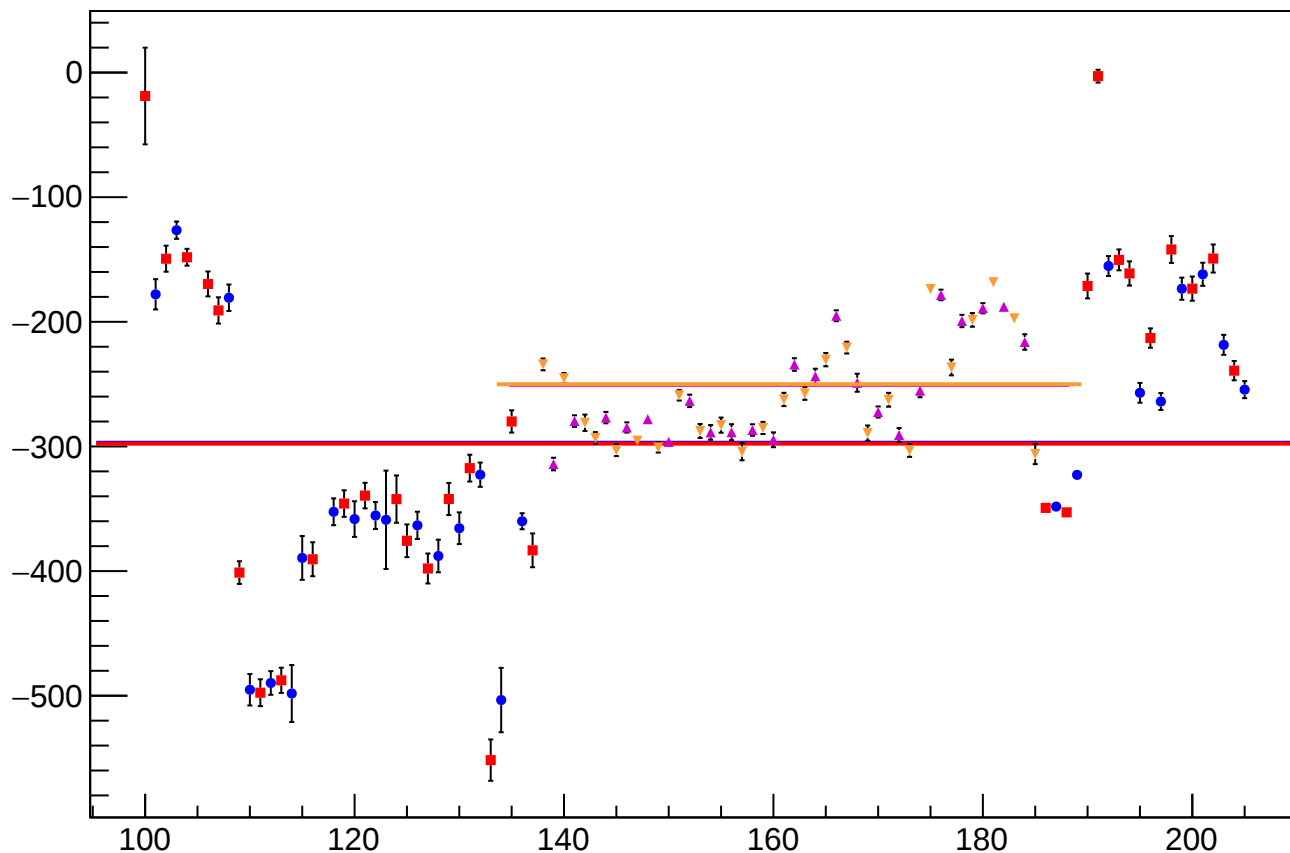
Right: 2.421 ± 0.877 χ^2/NDF : 1697.1/55

In: 8.148 ± 0.659 χ^2/NDF : 1447.8/48

Out: 5.932 ± 0.617 χ^2/NDF : 1658.7/54

All: 6.967 ± 0.451 χ^2/NDF : 3112.5/103

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -297.041+/-1.609 χ^2/NDF : 3070.9/25

Left Out: -250.119+/-0.972 χ^2/NDF : 2246.9/24

Right Out: -297.737+/-1.230 χ^2/NDF : 8052.0/29

Left In: -250.628+/-0.990 χ^2/NDF : 1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

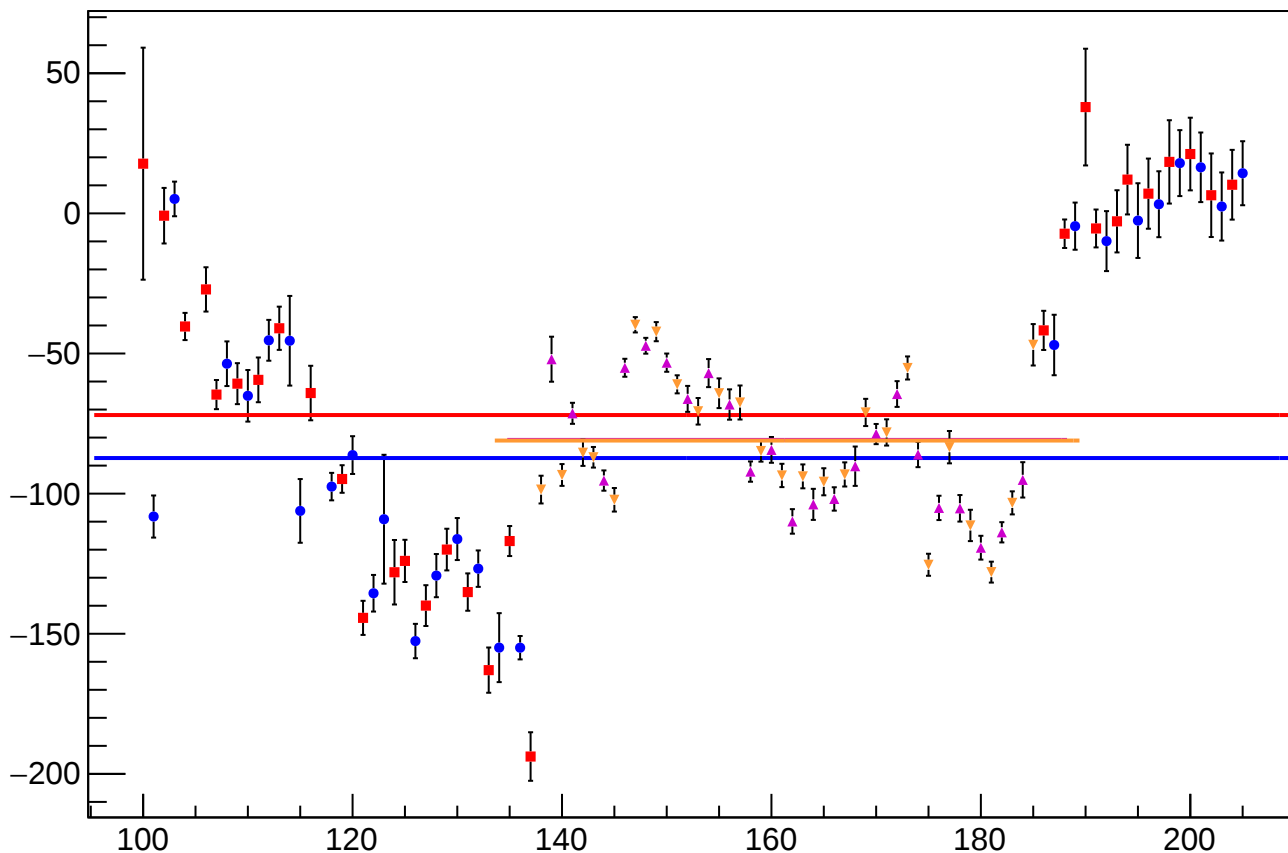
Right: -297.480+/-0.977 χ^2/NDF : 11123.0/55

In: -263.378+/-0.843 χ^2/NDF : 5611.4/48

Out: -268.423+/-0.763 χ^2/NDF : 11220.9/54

All: -266.153+/-0.566 χ^2/NDF : 16852.0/103

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -87.299 ± 1.557 $\chi^2/\text{NDF}: 1391.9/25$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -71.959 ± 1.400 $\chi^2/\text{NDF}: 1592.9/29$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

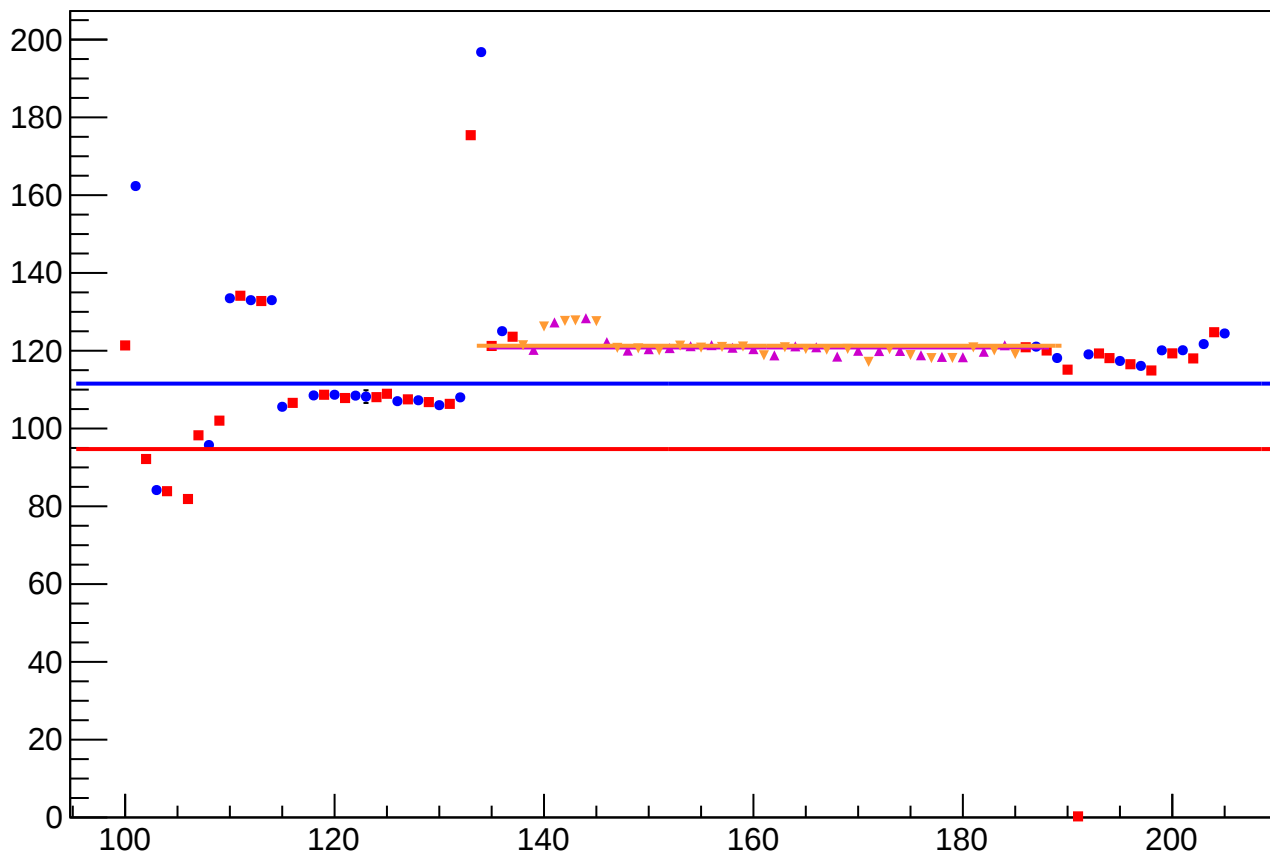
Right: -78.813 ± 1.041 $\chi^2/\text{NDF}: 3038.5/55$

In: -82.376 ± 0.761 $\chi^2/\text{NDF}: 2098.2/48$

Out: -78.635 ± 0.722 $\chi^2/\text{NDF}: 2537.0/54$

All: -80.408 ± 0.524 $\chi^2/\text{NDF}: 4647.8/103$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 111.544 $\pm$ 0.072 χ^2 /NDF: 78200.5/25

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF:4939.3/24

Right Out: 94.717 $\pm$ 0.063 χ^2 /NDF: 359649.8/29

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

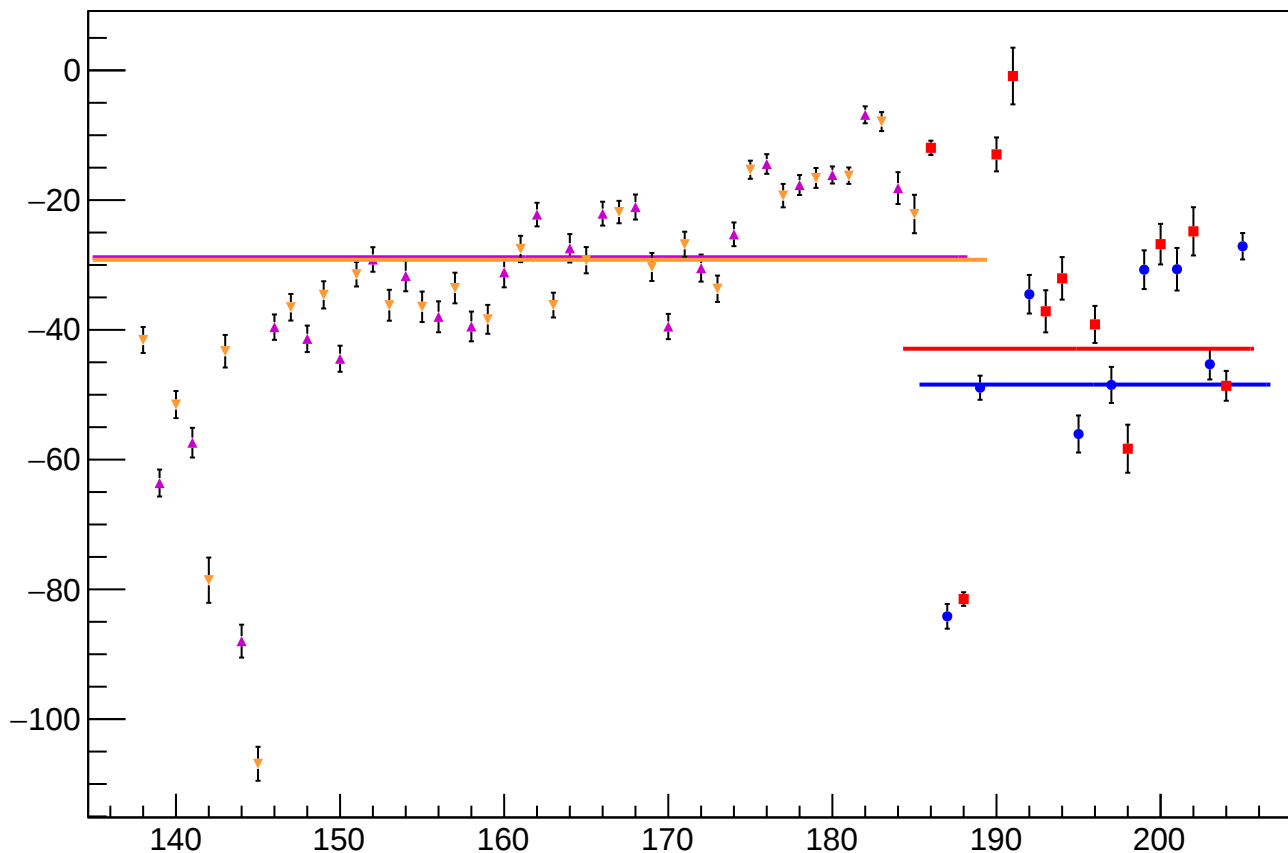
Right: 102.024 $\pm$ 0.048 χ^2 /NDF: 468612.0/55

In: 118.599 $\pm$ 0.035 χ^2 /NDF:94168.2/48

Out: 113.661 $\pm$ 0.034 χ^2 /NDF:490497.6/54

All: 116.018 $\pm$ 0.024 χ^2 /NDF: 594813.1/103

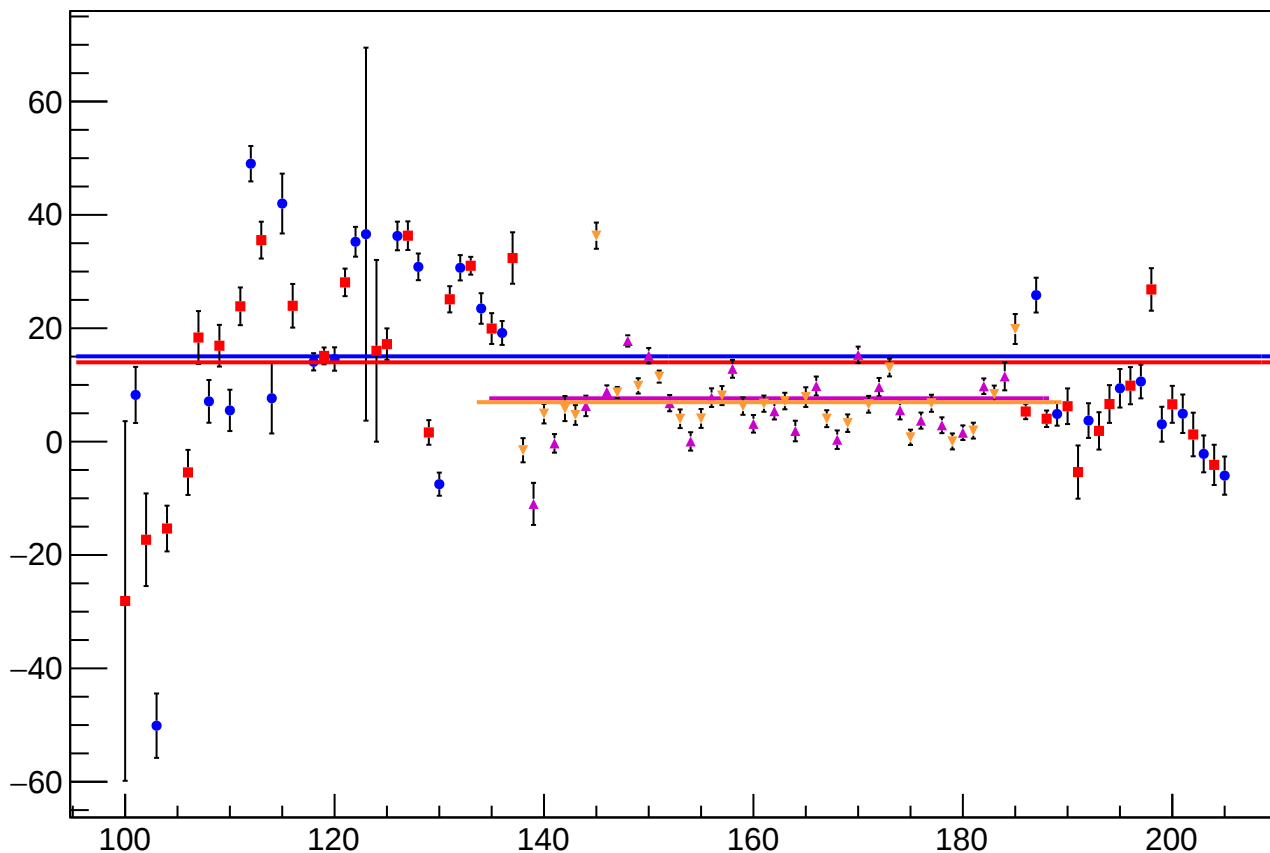
reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -48.433 ± 0.802 $\chi^2/\text{NDF}: 556.4/8$
 Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$
 Right Out: -42.909 ± 0.610 $\chi^2/\text{NDF}: 2461.1/10$
 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: -44.936 ± 0.486 $\chi^2/\text{NDF}: 3047.5/19$
 In: -32.647 ± 0.355 $\chi^2/\text{NDF}: 2802.1/31$
 Out: -33.152 ± 0.328 $\chi^2/\text{NDF}: 4701.6/35$
 All: -32.920 ± 0.241 $\chi^2/\text{NDF}: 7504.7/67$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.044 $\pm$ 0.546 χ^2 /NDF: 797.8/25

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 13.989 $\pm$ 0.490 χ^2 /NDF: 647.7/29

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

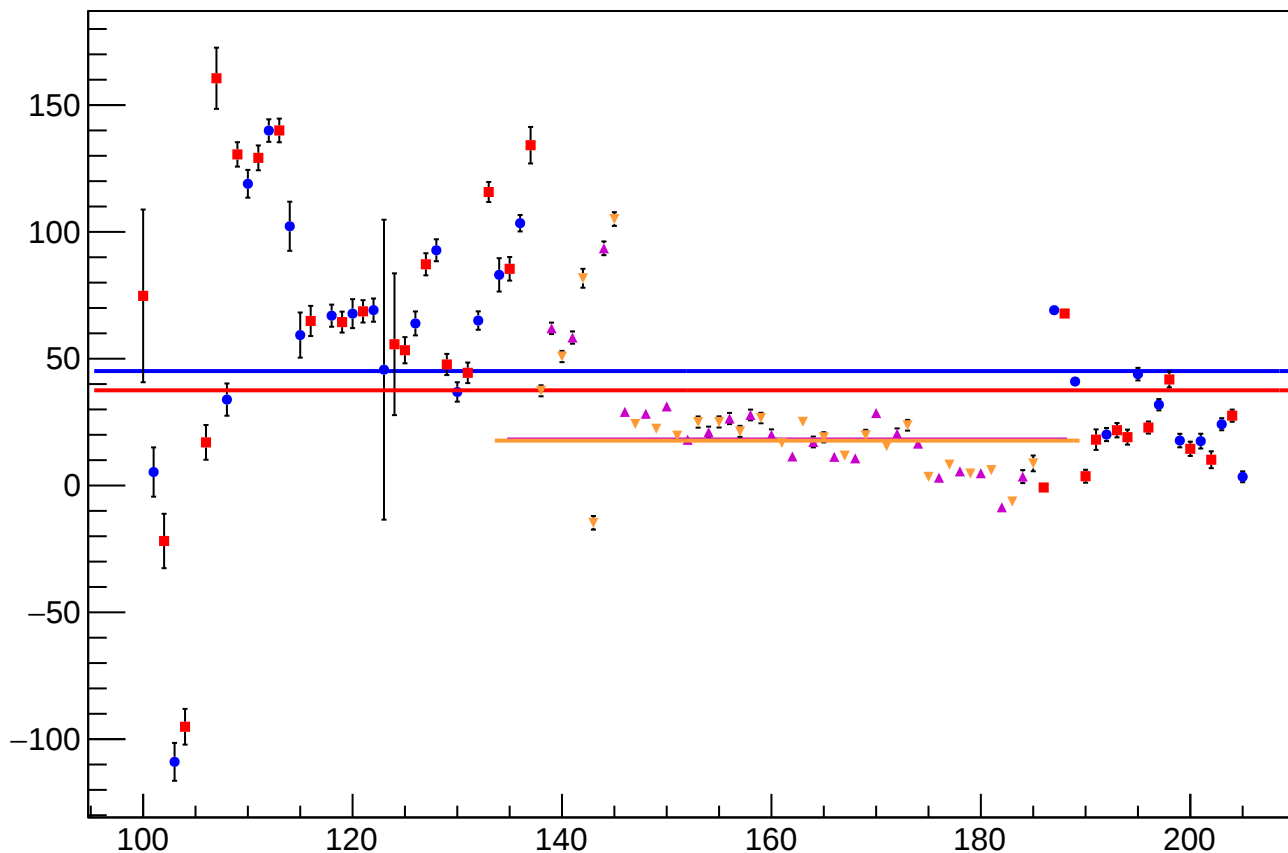
Right: 14.460 $\pm$ 0.364 χ^2 /NDF: 1447.5/55

In: 9.477 $\pm$ 0.272 χ^2 /NDF:1274.1/48

Out: 8.907 $\pm$ 0.258 χ^2 /NDF:1118.1/54

All: 9.177 $\pm$ 0.187 χ^2 /NDF: 2394.4/103

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 45.126+/-0.617 χ^2 /NDF: 2733.1/25

Left Out: 17.705+/-0.387 χ^2 /NDF:2432.2/24

Right Out: 37.534+/-0.472 χ^2 /NDF: 6292.8/29

Left In: 18.150+/-0.393 χ^2 /NDF:2339.4/22

Left: 17.924+/-0.276 χ^2 /NDF: 4772.2/47

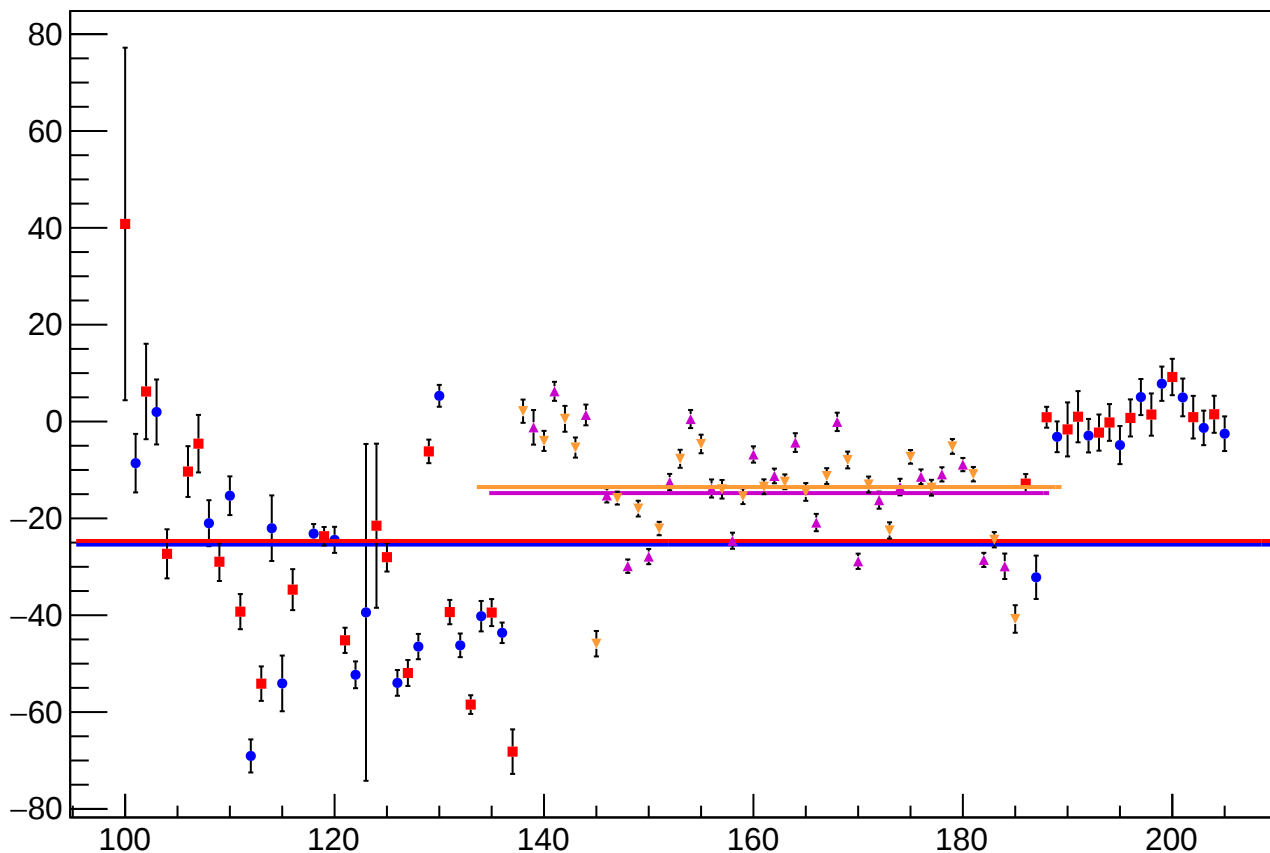
Right: 40.337+/-0.375 χ^2 /NDF: 9121.4/55

In: 25.922+/-0.331 χ^2 /NDF:6432.9/48

Out: 25.679+/-0.299 χ^2 /NDF:9779.5/54

All: 25.788+/-0.222 χ^2 /NDF: 16212.7/103

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -25.409 ± 0.637 $\chi^2/\text{NDF}: 1273.6/25$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -24.663 ± 0.594 $\chi^2/\text{NDF}: 1343.9/29$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

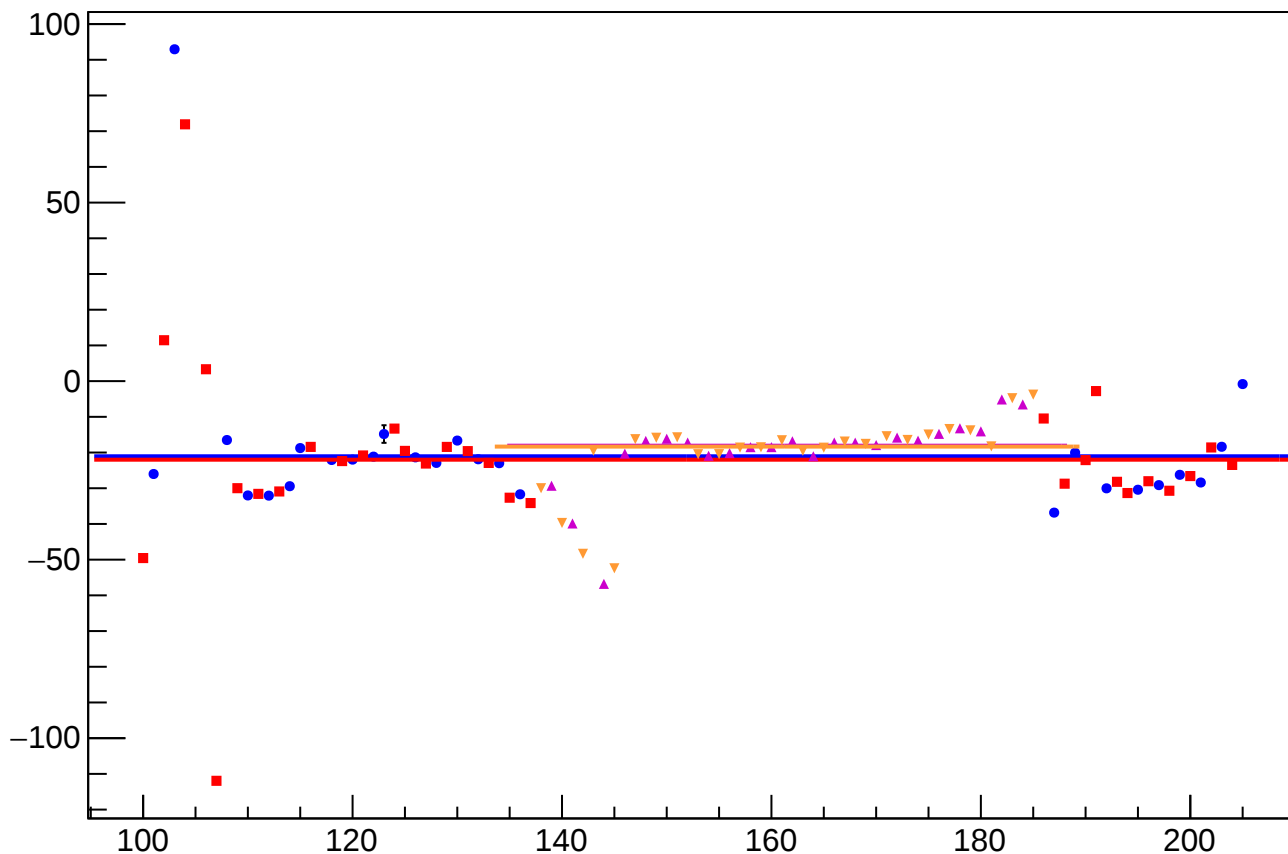
Right: -25.011 ± 0.434 $\chi^2/\text{NDF}: 2618.2/55$

In: -17.290 ± 0.309 $\chi^2/\text{NDF}: 2324.5/48$

Out: -16.325 ± 0.298 $\chi^2/\text{NDF}: 2179.4/54$

All: -16.789 ± 0.215 $\chi^2/\text{NDF}: 4509.0/103$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -21.047 ± 0.031 $\chi^2/\text{NDF}: 527835.0/25$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -22.005 ± 0.029 $\chi^2/\text{NDF}: 486484.6/29$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

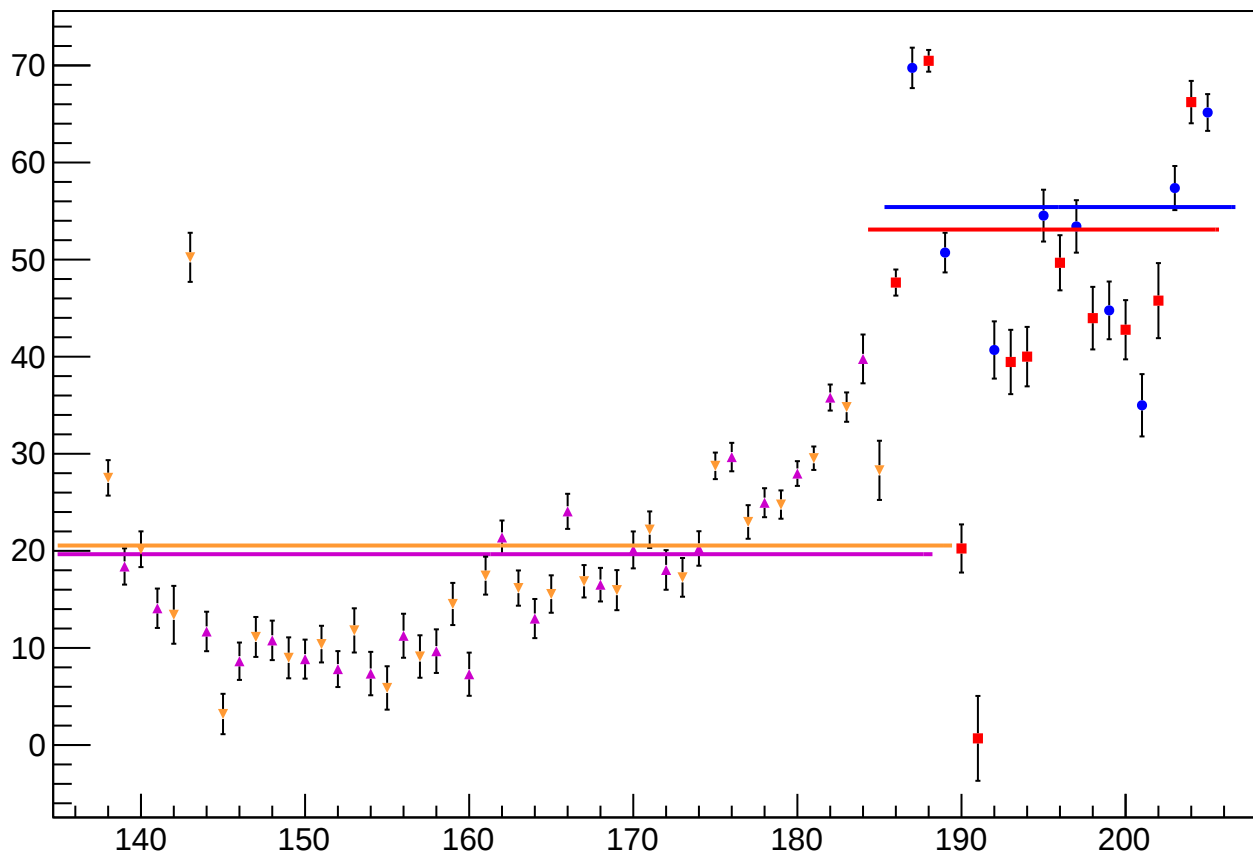
Right: -21.552 ± 0.021 $\chi^2/\text{NDF}: 1014830.5/55$

In: -18.720 ± 0.014 $\chi^2/\text{NDF}: 777075.7/48$

Out: -19.171 ± 0.014 $\chi^2/\text{NDF}: 782884.5/54$

All: -18.951 ± 0.010 $\chi^2/\text{NDF}: 1560473.7/103$

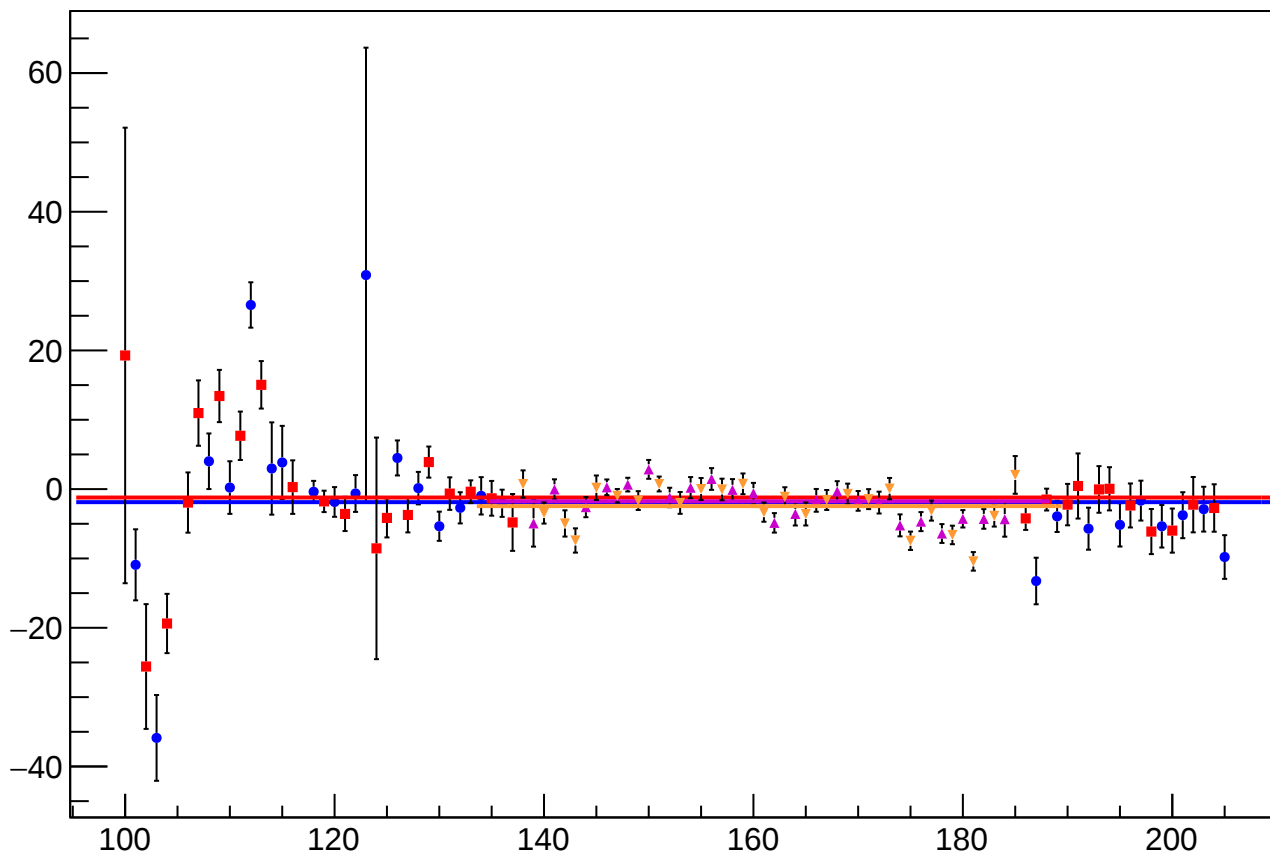
reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 55.412 $\pm$ 0.804 χ^2 /NDF: 158.7/8
 Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24
 Right Out: 53.095 $\pm$ 0.649 χ^2 /NDF: 673.3/10
 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: 54.009 $\pm$ 0.505 χ^2 /NDF: 837.1/19
 In: 26.192 $\pm$ 0.344 χ^2 /NDF: 2345.7/31
 Out: 28.625 $\pm$ 0.323 χ^2 /NDF: 3187.9/35
 All: 27.483 $\pm$ 0.236 χ^2 /NDF: 5560.1/67

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.881 ± 0.552 χ^2/NDF : 148.2/25

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.213 ± 0.508 χ^2/NDF : 95.2/29

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

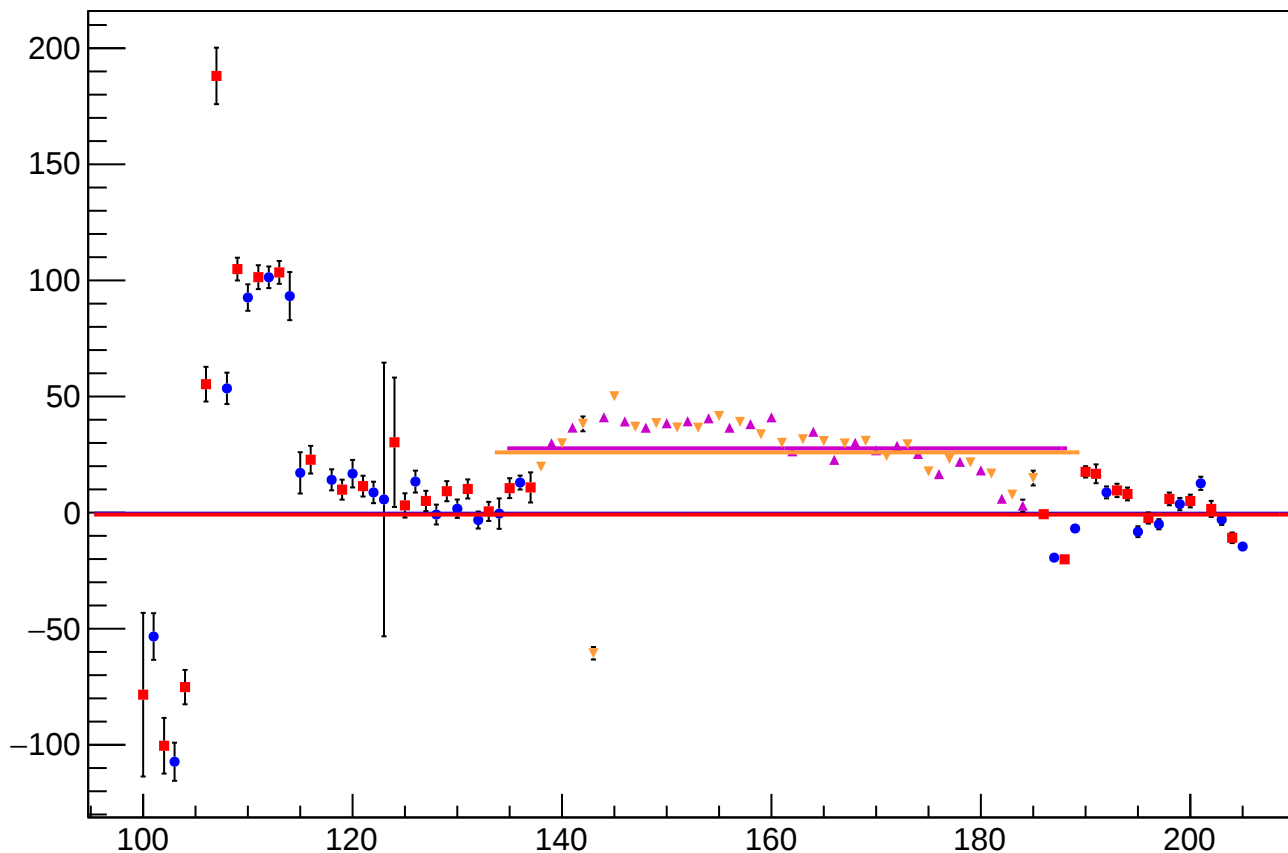
Right: -1.519 ± 0.374 χ^2/NDF : 244.2/55

In: -1.787 ± 0.265 χ^2/NDF : 215.7/48

Out: -2.146 ± 0.253 χ^2/NDF : 205.6/54

All: -1.974 ± 0.183 χ^2/NDF : 422.3/103

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.453 ± 0.626 χ^2/NDF : 1379.3/25

Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24

Right Out: -0.846 ± 0.504 χ^2/NDF : 2423.7/29

Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47

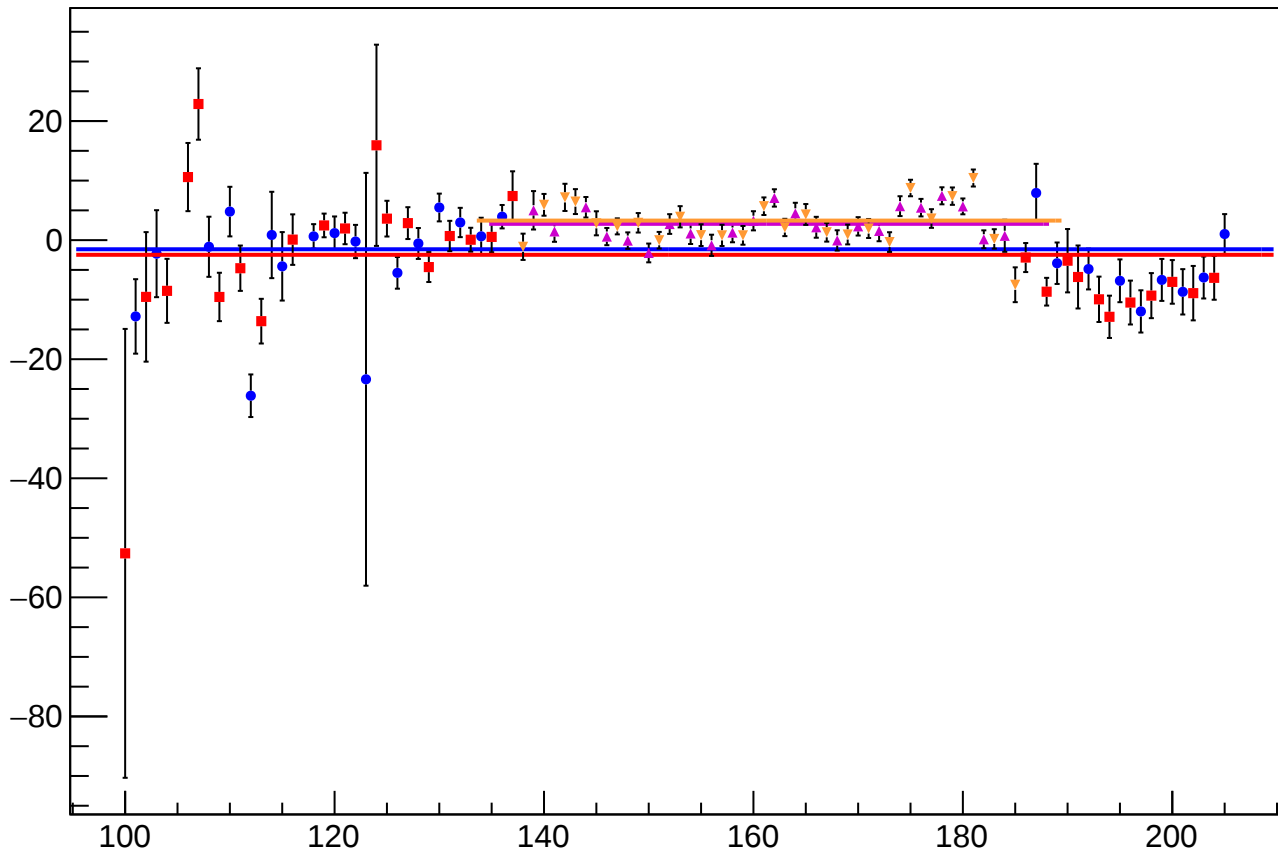
Right: -0.692 ± 0.392 χ^2/NDF : 3803.3/55

In: 20.147 ± 0.324 χ^2/NDF : 3663.9/48

Out: 16.480 ± 0.299 χ^2/NDF : 5962.7/54

All: 18.171 ± 0.220 χ^2/NDF : 9695.8/103

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.533 ± 0.639 $\chi^2/\text{NDF}: 102.9/25$

Left Out: 3.283 ± 0.331 $\chi^2/\text{NDF}: 102.3/24$

Right Out: -2.462 ± 0.610 $\chi^2/\text{NDF}: 100.8/29$

Left In: 2.738 ± 0.341 $\chi^2/\text{NDF}: 64.5/22$

Left: 3.018 ± 0.238 $\chi^2/\text{NDF}: 168.1/47$

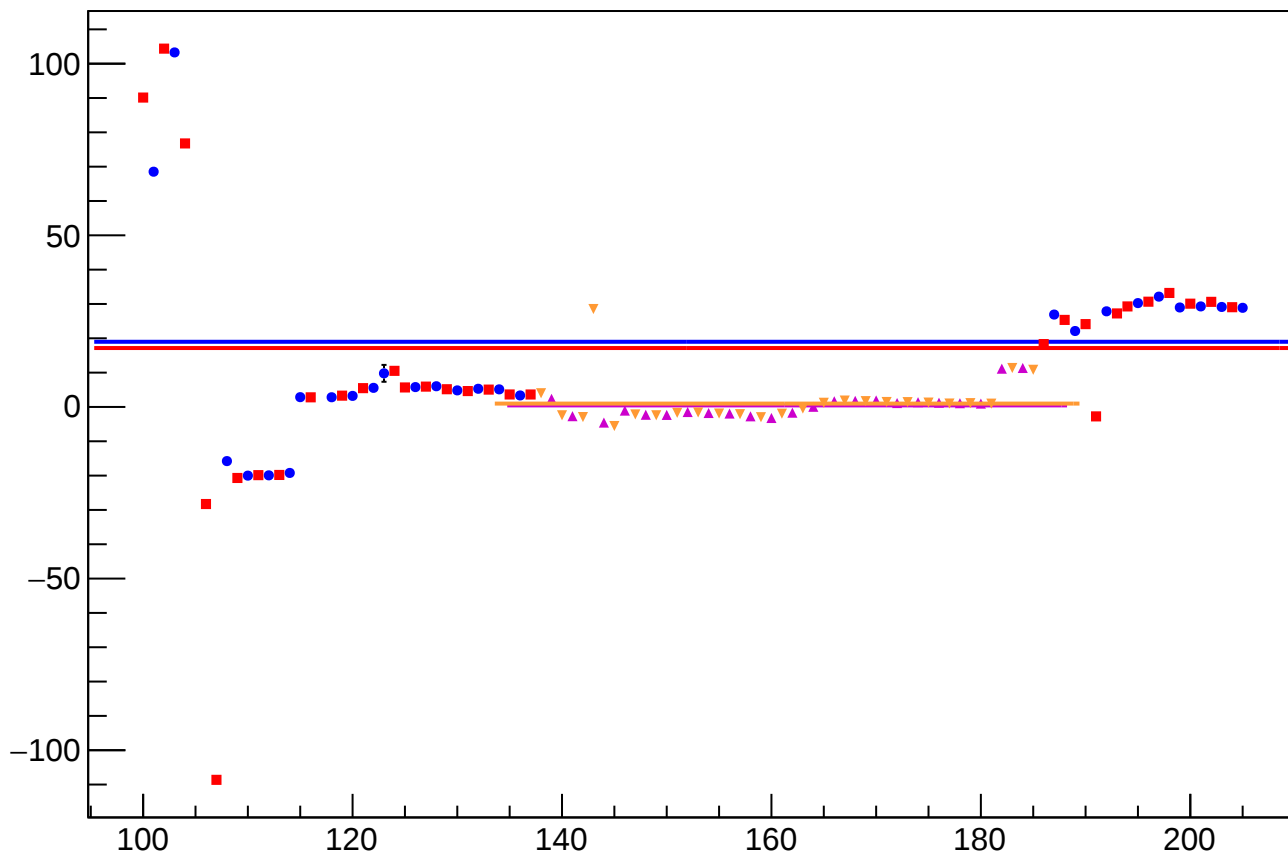
Right: -2.019 ± 0.441 $\chi^2/\text{NDF}: 204.8/55$

In: 1.791 ± 0.301 $\chi^2/\text{NDF}: 202.1/48$

Out: 1.973 ± 0.291 $\chi^2/\text{NDF}: 271.6/54$

All: 1.885 ± 0.209 $\chi^2/\text{NDF}: 473.9/103$

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 18.987 $\pm$ 0.030 χ^2 /NDF: 481861.1/25

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF: 117391.3/24

Right Out: 17.162 $\pm$ 0.029 χ^2 /NDF: 712285.1/29

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

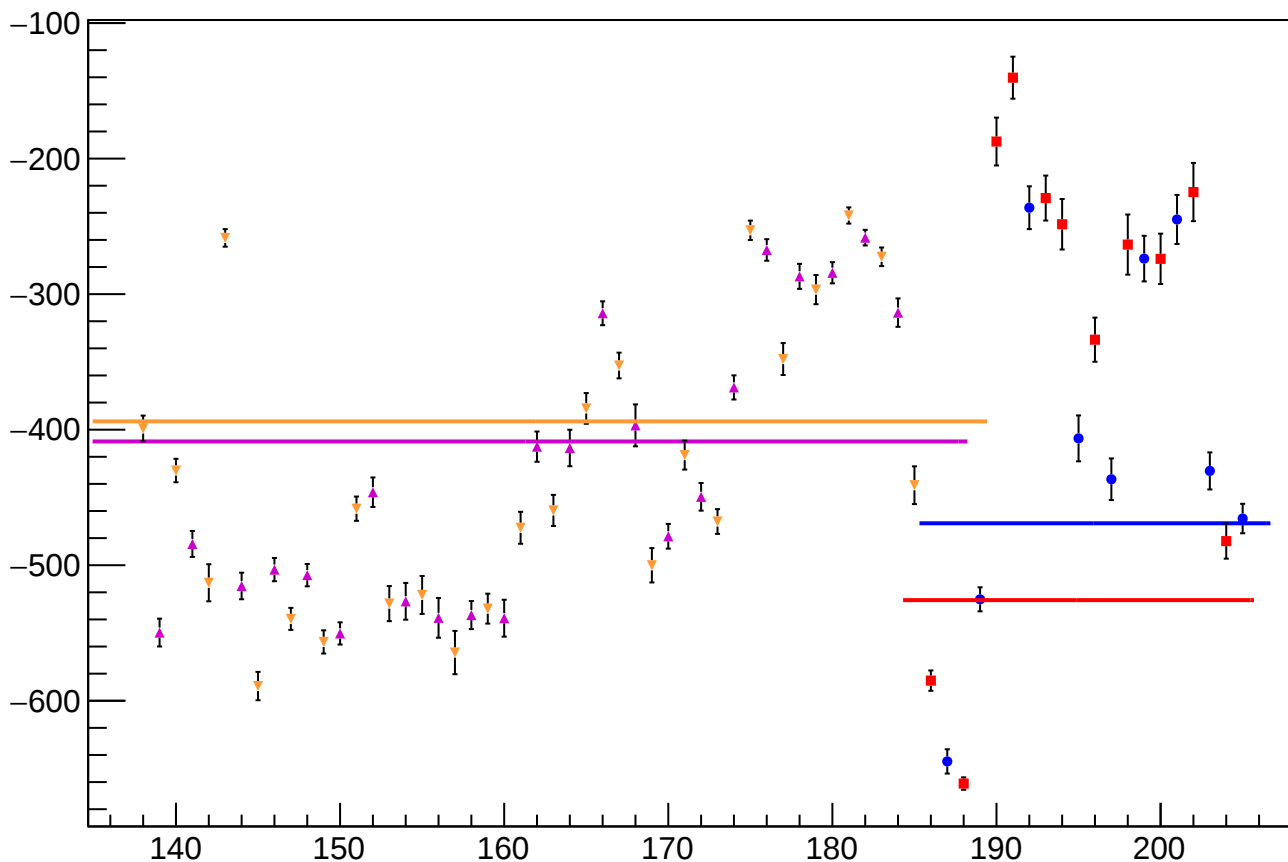
Right: 18.034 $\pm$ 0.021 χ^2 /NDF: 1196025.1/55

In: 4.246 $\pm$ 0.014 χ^2 /NDF: 827933.5/48

Out: 4.445 $\pm$ 0.013 χ^2 /NDF: 1072776.0/54

All: 4.348 $\pm$ 0.010 χ^2 /NDF: 1900817.1/103

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -469.068 $\pm$ 4.177 χ^2 /NDF: 955.7/8

Left Out: -393.871 $\pm$ 1.897 χ^2 /NDF:3772.8/24

Right Out: -525.758 $\pm$ 3.229 χ^2 /NDF: 3129.0/10

Left In: -408.696 $\pm$ 1.979 χ^2 /NDF:3062.9/22

Left: -400.970 $\pm$ 1.369 χ^2 /NDF: 6864.9/47

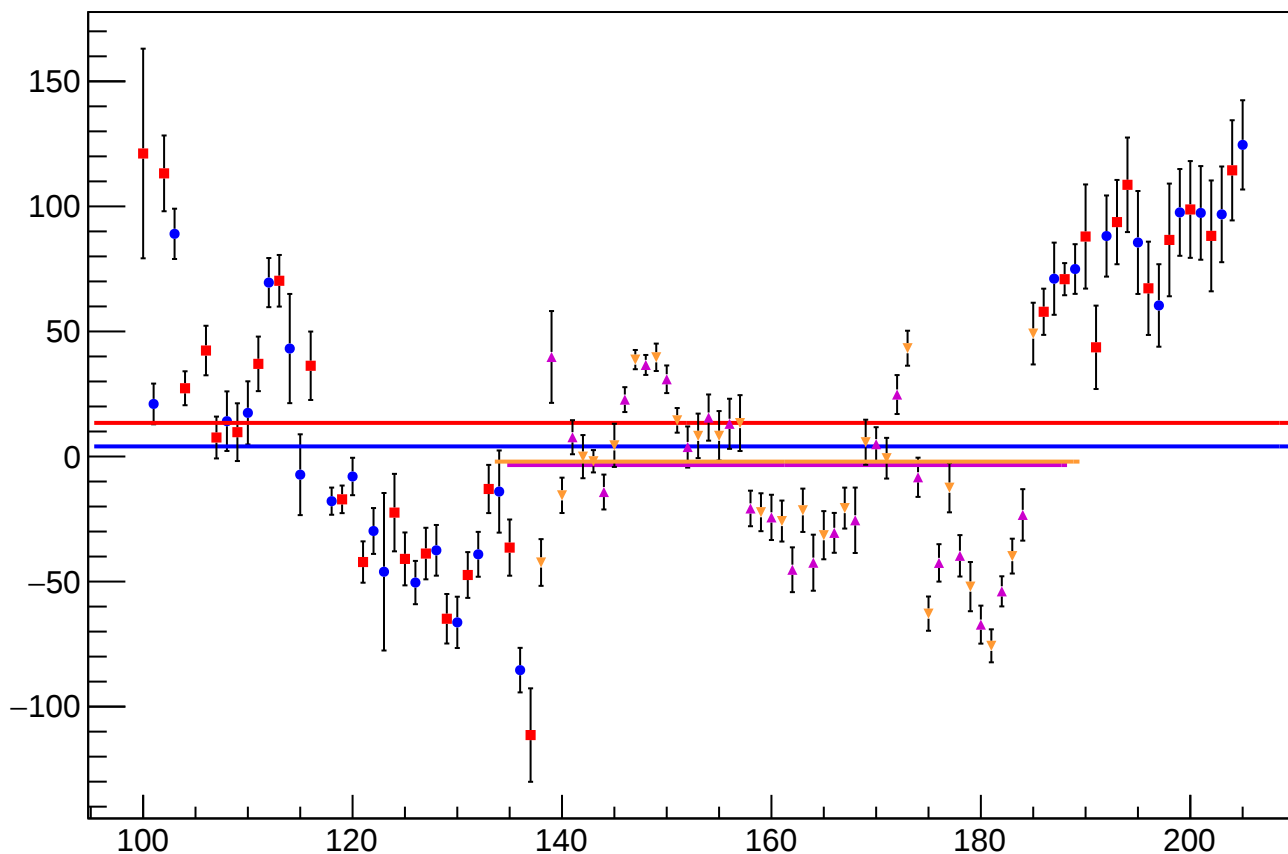
Right: -504.556 $\pm$ 2.555 χ^2 /NDF: 4200.0/19

In: -419.762 $\pm$ 1.788 χ^2 /NDF:4189.2/31

Out: -427.713 $\pm$ 1.636 χ^2 /NDF:8142.0/35

All: -424.091 $\pm$ 1.207 χ^2 /NDF: 12342.0/67

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.036 ± 2.145 $\chi^2/\text{NDF}: 639.4/25$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 13.439 ± 1.977 $\chi^2/\text{NDF}: 655.7/29$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

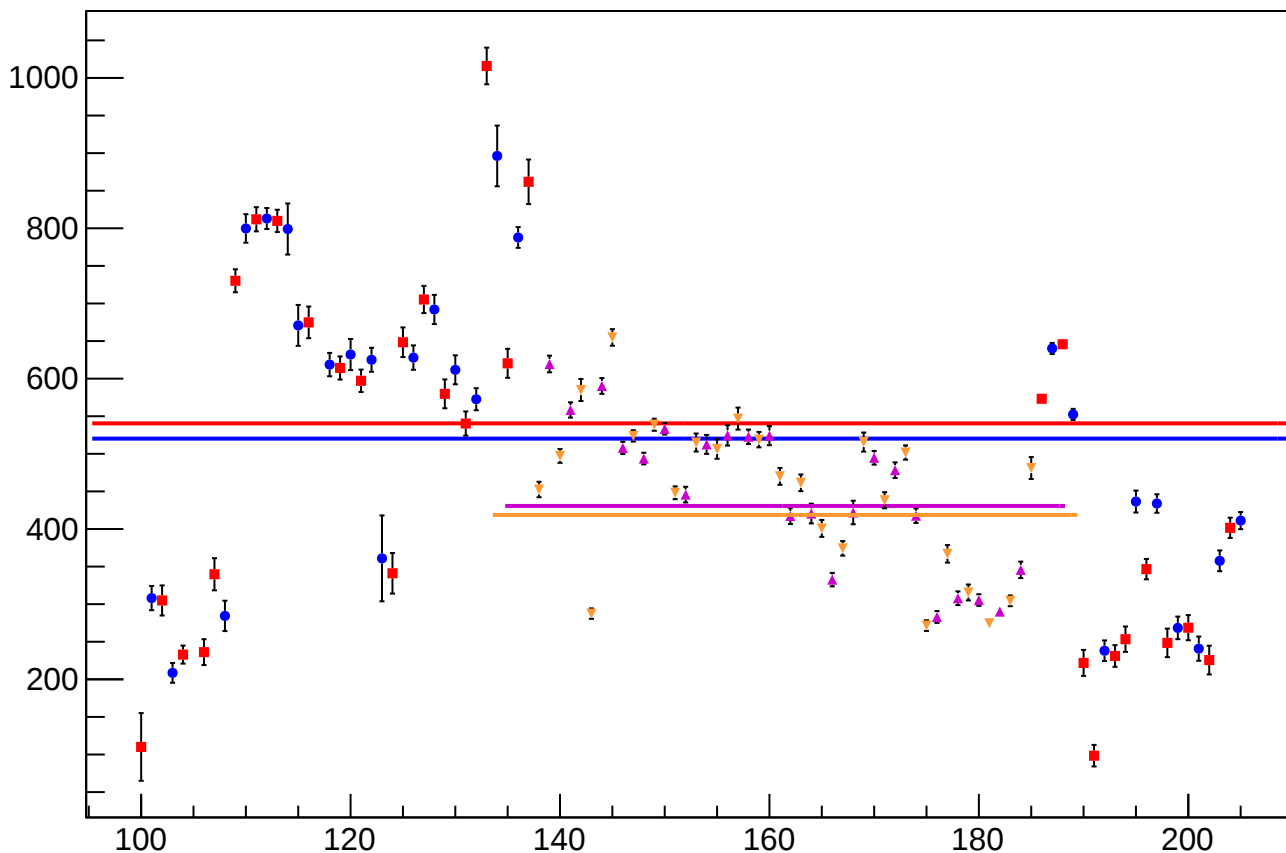
Right: 9.118 ± 1.454 $\chi^2/\text{NDF}: 1305.5/55$

In: -0.927 ± 1.240 $\chi^2/\text{NDF}: 1098.4/48$

Out: 3.249 ± 1.156 $\chi^2/\text{NDF}: 1259.8/54$

All: 1.308 ± 0.845 $\chi^2/\text{NDF}: 2364.3/103$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 520.207 $\pm$ 2.805 χ^2 /NDF: 3966.8/25

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 540.538 $\pm$ 2.258 χ^2 /NDF: 6787.5/29

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

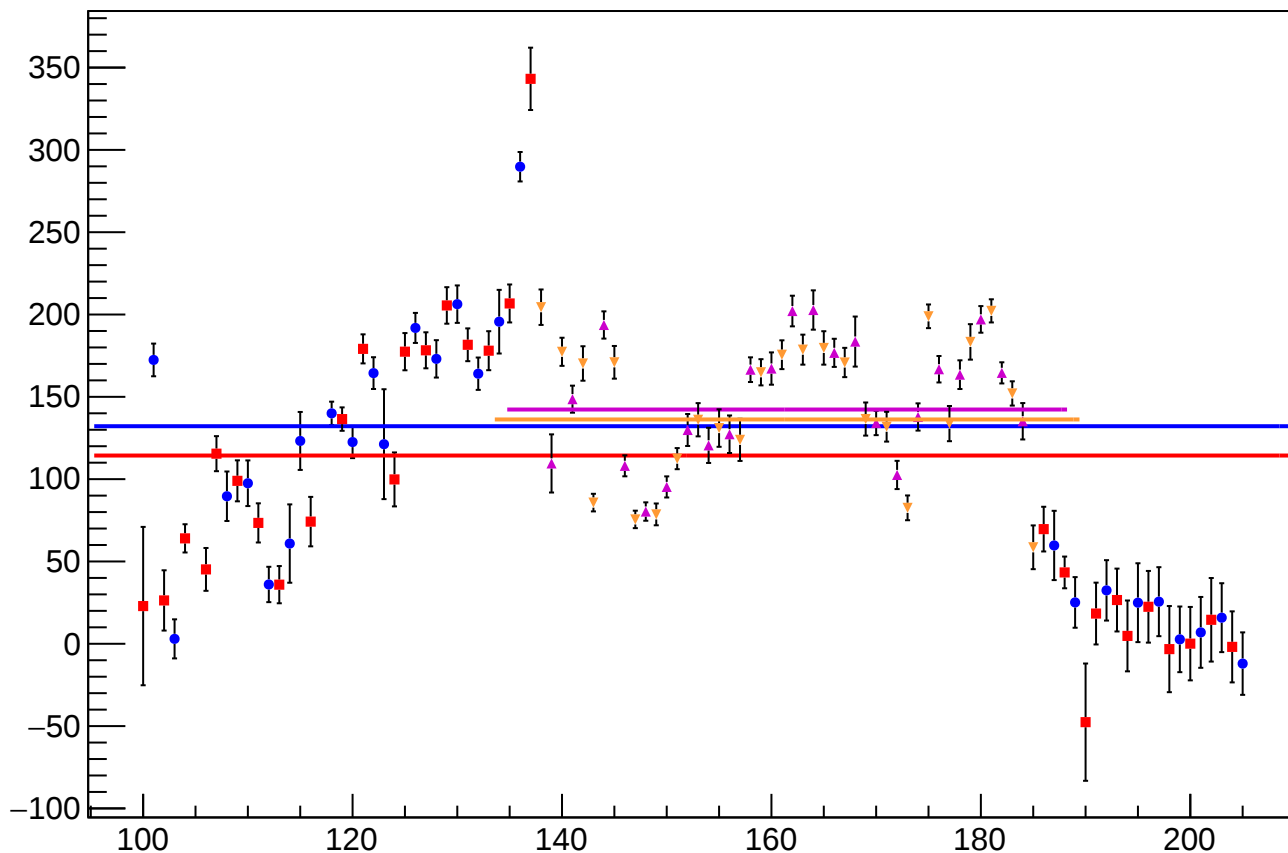
Right: 532.543 $\pm$ 1.759 χ^2 /NDF: 10786.2/55

In: 460.246 $\pm$ 1.612 χ^2 /NDF:7500.1/48

Out: 469.354 $\pm$ 1.456 χ^2 /NDF:11785.8/54

All: 465.264 $\pm$ 1.081 χ^2 /NDF: 19303.5/103

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 132.159 ± 2.509 $\chi^2/\text{NDF}: 982.6/25$

Left Out: 136.258 ± 1.651 $\chi^2/\text{NDF}: 758.3/24$

Right Out: 114.348 ± 2.359 $\chi^2/\text{NDF}: 907.8/29$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

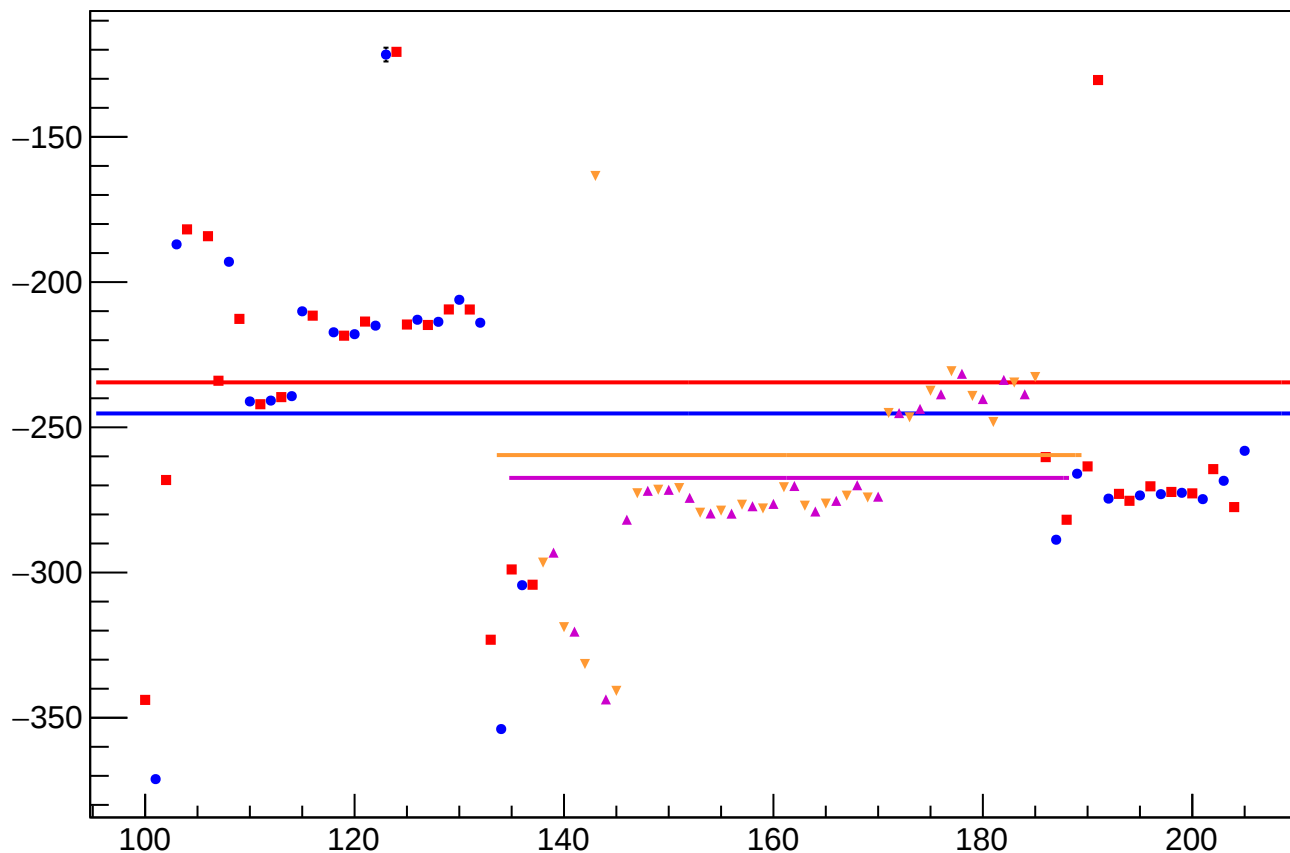
Right: 122.705 ± 1.719 $\chi^2/\text{NDF}: 1917.2/55$

In: 138.992 ± 1.432 $\chi^2/\text{NDF}: 1453.4/48$

Out: 129.054 ± 1.353 $\chi^2/\text{NDF}: 1724.0/54$

All: 133.739 ± 0.983 $\chi^2/\text{NDF}: 3202.9/103$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -245.226 ± 0.126 $\chi^2/\text{NDF}: 163543.6/25$

Left Out: -259.557 ± 0.079 $\chi^2/\text{NDF}: 238235.2/24$

Right Out: -234.524 ± 0.116 $\chi^2/\text{NDF}: 174081.8/29$

Left In: -267.417 ± 0.082 $\chi^2/\text{NDF}: 98035.5/22$

Left: -263.361 ± 0.057 $\chi^2/\text{NDF}: 341051.4/47$

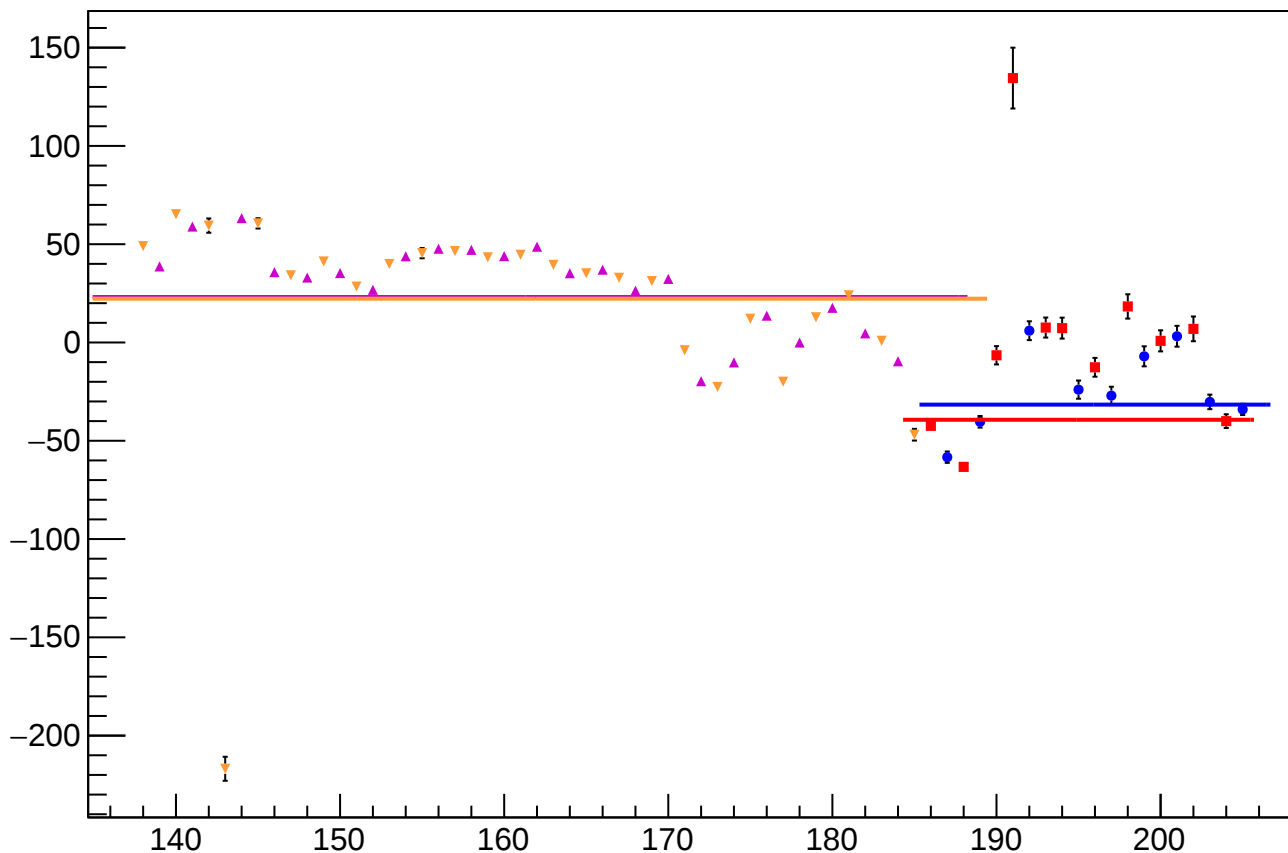
Right: -239.436 ± 0.085 $\chi^2/\text{NDF}: 341525.0/55$

In: -260.856 ± 0.069 $\chi^2/\text{NDF}: 283406.7/48$

Out: -251.624 ± 0.065 $\chi^2/\text{NDF}: 444066.0/54$

All: -256.021 ± 0.047 $\chi^2/\text{NDF}: 736974.3/103$

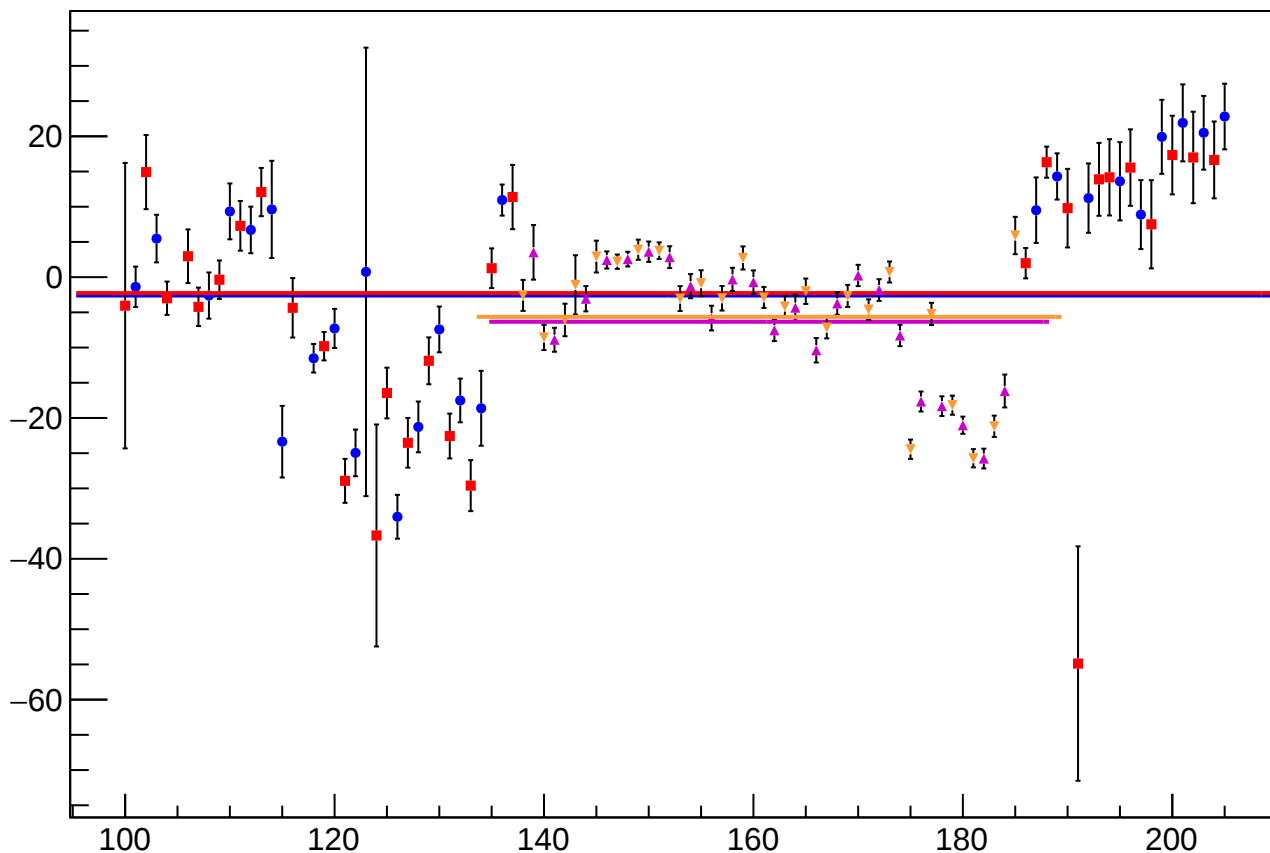
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.608 ± 1.247 $\chi^2/\text{NDF}: 227.1/8$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -39.314 ± 0.965 $\chi^2/\text{NDF}: 804.0/10$
 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: -36.428 ± 0.763 $\chi^2/\text{NDF}: 1055.0/19$
 In: 17.995 ± 0.382 $\chi^2/\text{NDF}: 4718.1/31$
 Out: 13.292 ± 0.369 $\chi^2/\text{NDF}: 9456.2/35$
 All: 15.558 ± 0.265 $\chi^2/\text{NDF}: 14252.7/67$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.609 ± 0.706 $\chi^2/\text{NDF}: 454.2/25$

Left Out: -5.642 ± 0.316 $\chi^2/\text{NDF}: 893.7/24$

Right Out: -2.264 ± 0.646 $\chi^2/\text{NDF}: 453.2/29$

Left In: -6.337 ± 0.321 $\chi^2/\text{NDF}: 783.0/22$

Left: -5.983 ± 0.225 $\chi^2/\text{NDF}: 1679.1/47$

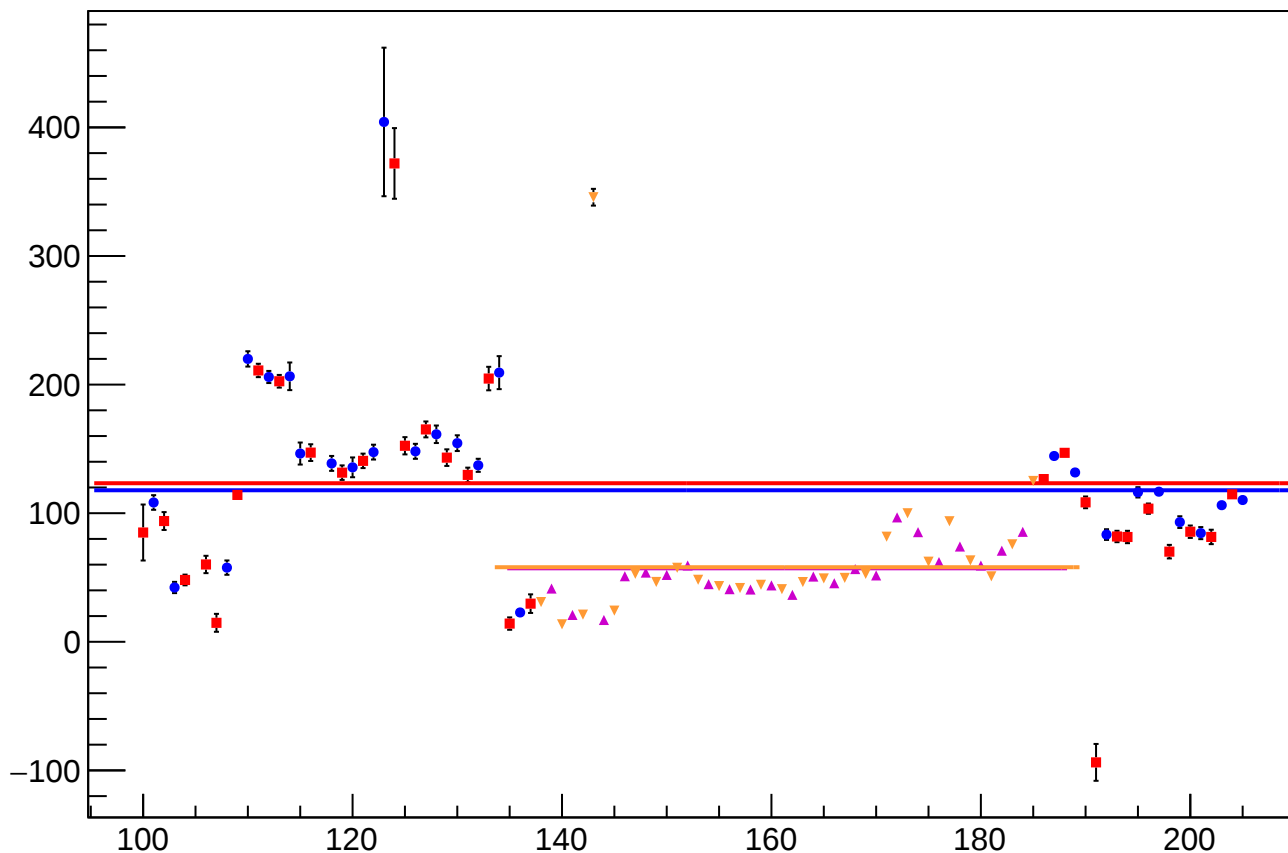
Right: -2.422 ± 0.476 $\chi^2/\text{NDF}: 907.5/55$

In: -5.697 ± 0.292 $\chi^2/\text{NDF}: 1260.2/48$

Out: -4.991 ± 0.283 $\chi^2/\text{NDF}: 1369.0/54$

All: -5.333 ± 0.203 $\chi^2/\text{NDF}: 2632.3/103$

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 117.830 $\pm$ 0.875 χ^2 /NDF: 2480.6/25

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 123.302 $\pm$ 0.694 χ^2 /NDF: 3178.3/29

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

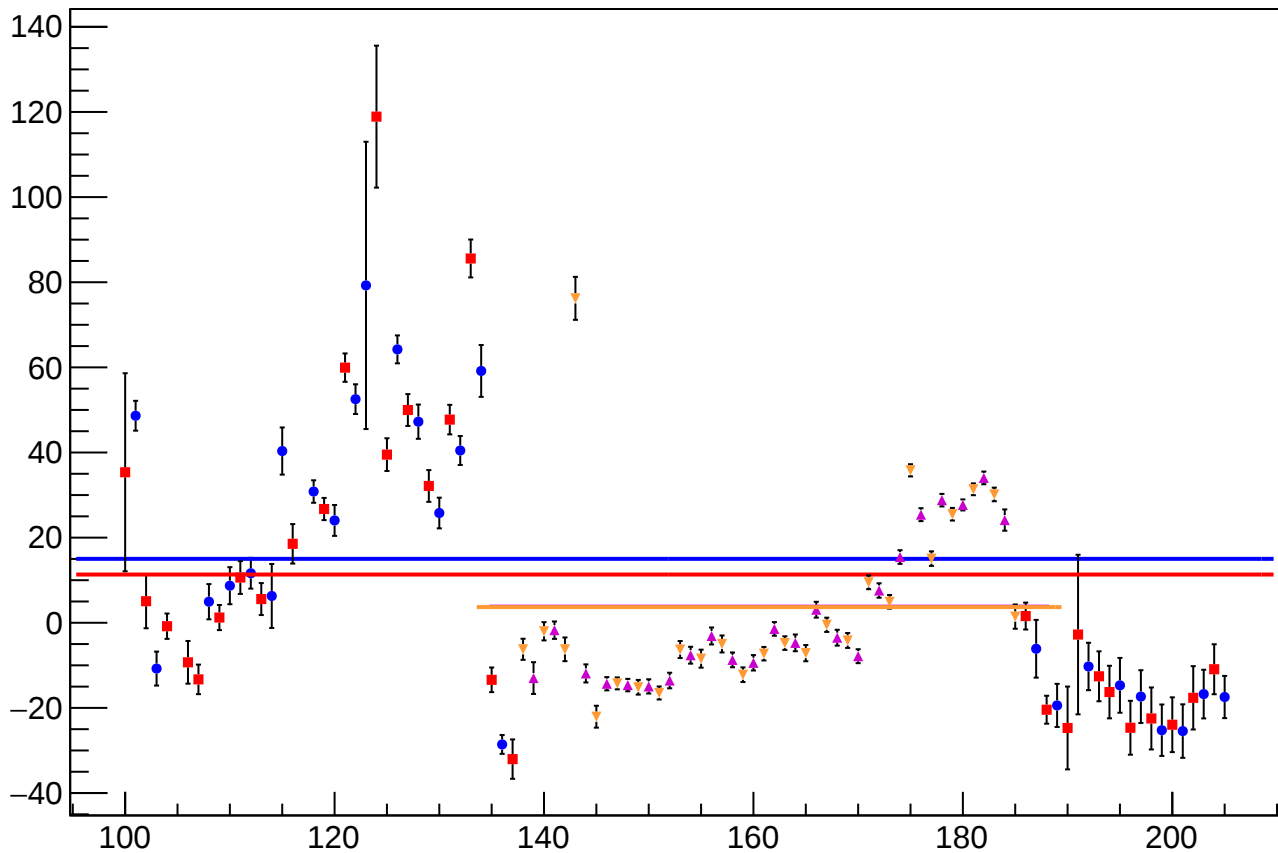
Right: 121.189 $\pm$ 0.544 χ^2 /NDF: 5682.9/55

In: 67.608 $\pm$ 0.363 χ^2 /NDF:8264.1/48

Out: 74.151 $\pm$ 0.345 χ^2 /NDF:14479.1/54

All: 71.048 $\pm$ 0.250 χ^2 /NDF: 22913.6/103

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.016 $\pm$ 0.816 χ^2 /NDF: 1405.7/25

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 11.333 $\pm$ 0.769 χ^2 /NDF: 1399.8/29

Left In: 3.786 $\pm$ 0.362 χ^2 /NDF:2198.8/22

Left: 3.734 $\pm$ 0.254 χ^2 /NDF: 4740.5/47

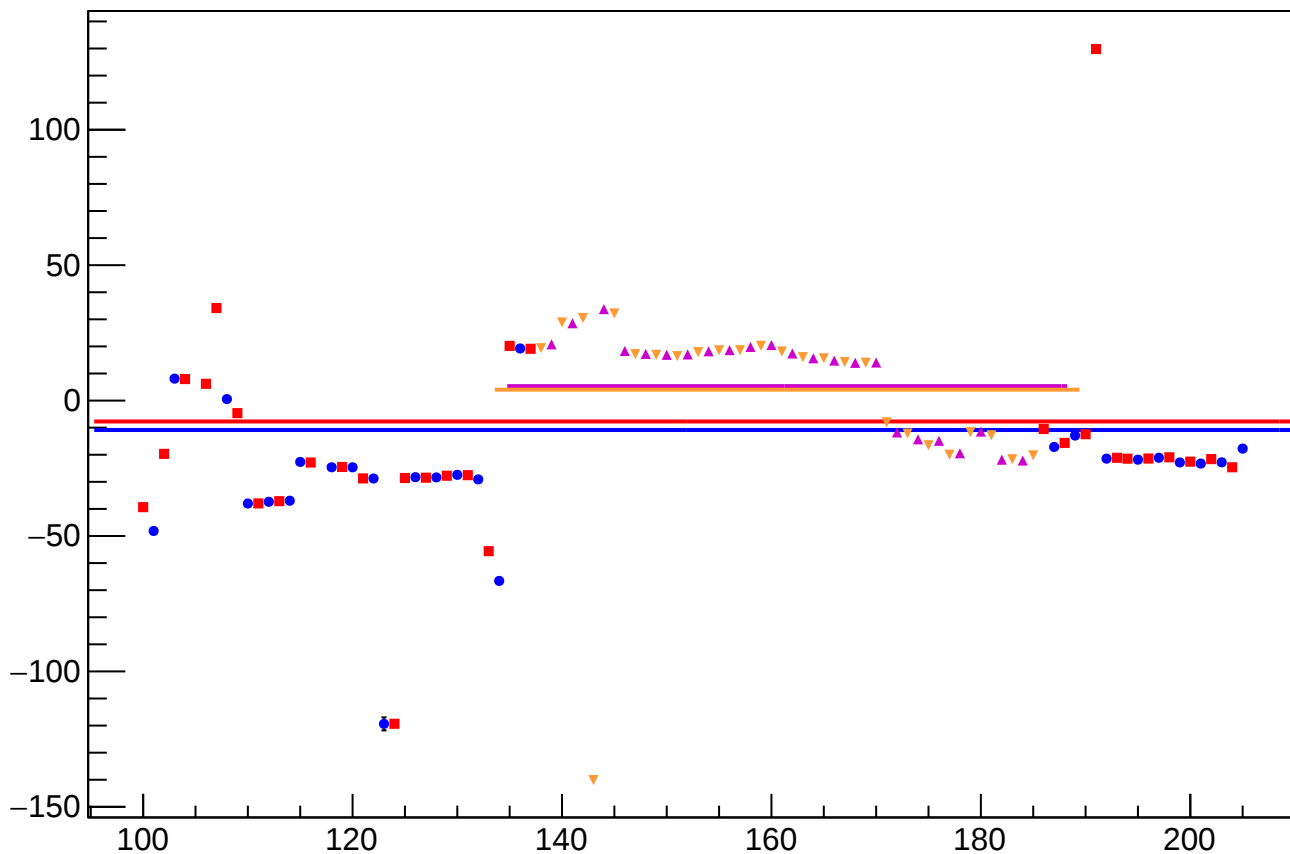
Right: 13.065 $\pm$ 0.560 χ^2 /NDF: 2816.3/55

In: 5.630 $\pm$ 0.331 χ^2 /NDF:3762.7/48

Out: 5.038 $\pm$ 0.324 χ^2 /NDF:4022.8/54

All: 5.327 $\pm$ 0.231 χ^2 /NDF: 7787.2/103

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -10.862 ± 0.038 χ^2/NDF : 296848.5/25

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -7.710 ± 0.037 χ^2/NDF : 385724.8/29

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

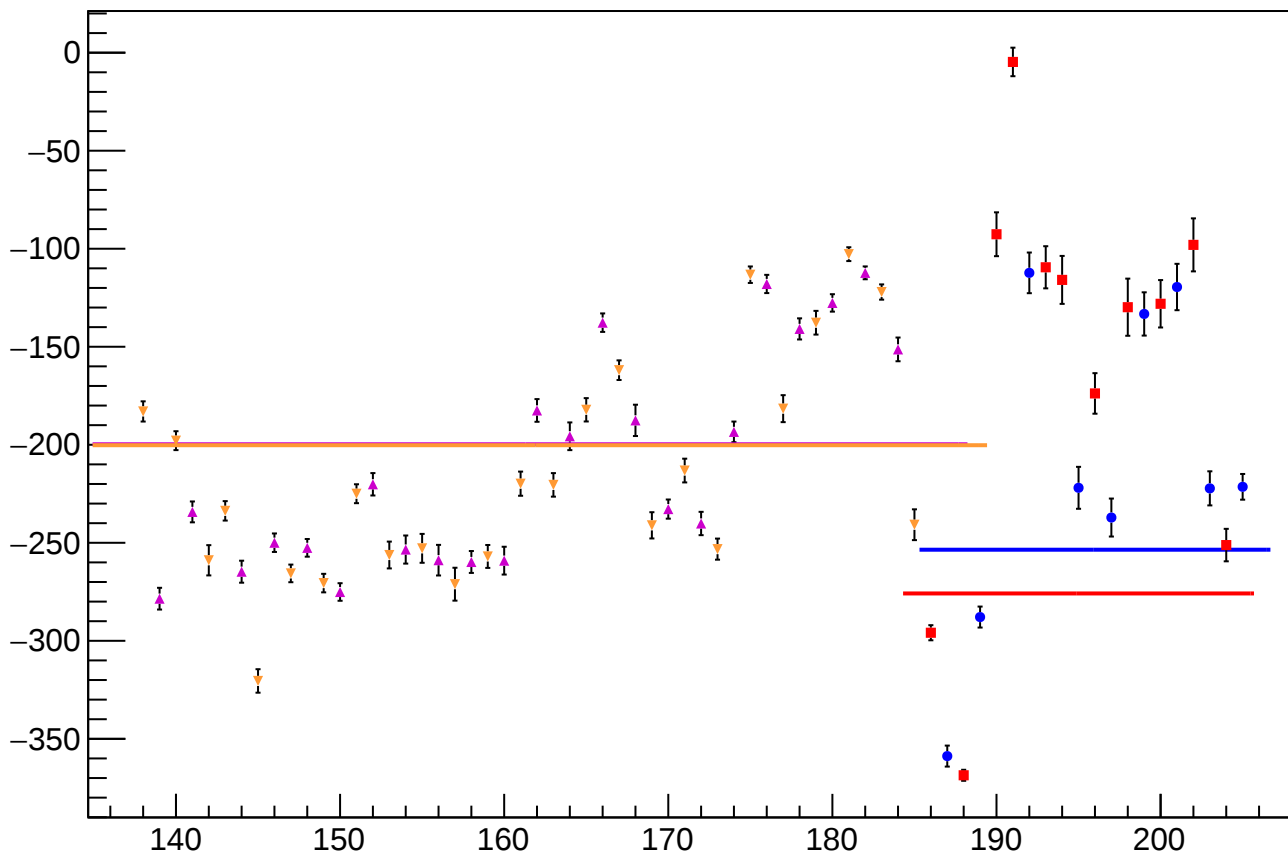
Right: -9.235 ± 0.027 χ^2/NDF : 686049.4/55

In: 2.832 ± 0.015 χ^2/NDF : 1524977.0/48

Out: 2.121 ± 0.015 χ^2/NDF : 1852346.3/54

All: 2.474 ± 0.011 χ^2/NDF : 3378440.8/103

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -253.531 ± 2.579 χ^2/NDF : 908.7/8

Left Out: -200.228 ± 1.078 χ^2/NDF : 3225.0/24

Right Out: -275.842 ± 1.900 χ^2/NDF : 3710.2/10

Left In: -199.739 ± 1.097 χ^2/NDF : 2968.0/22

Left: -199.988 ± 0.769 χ^2/NDF : 6193.2/47

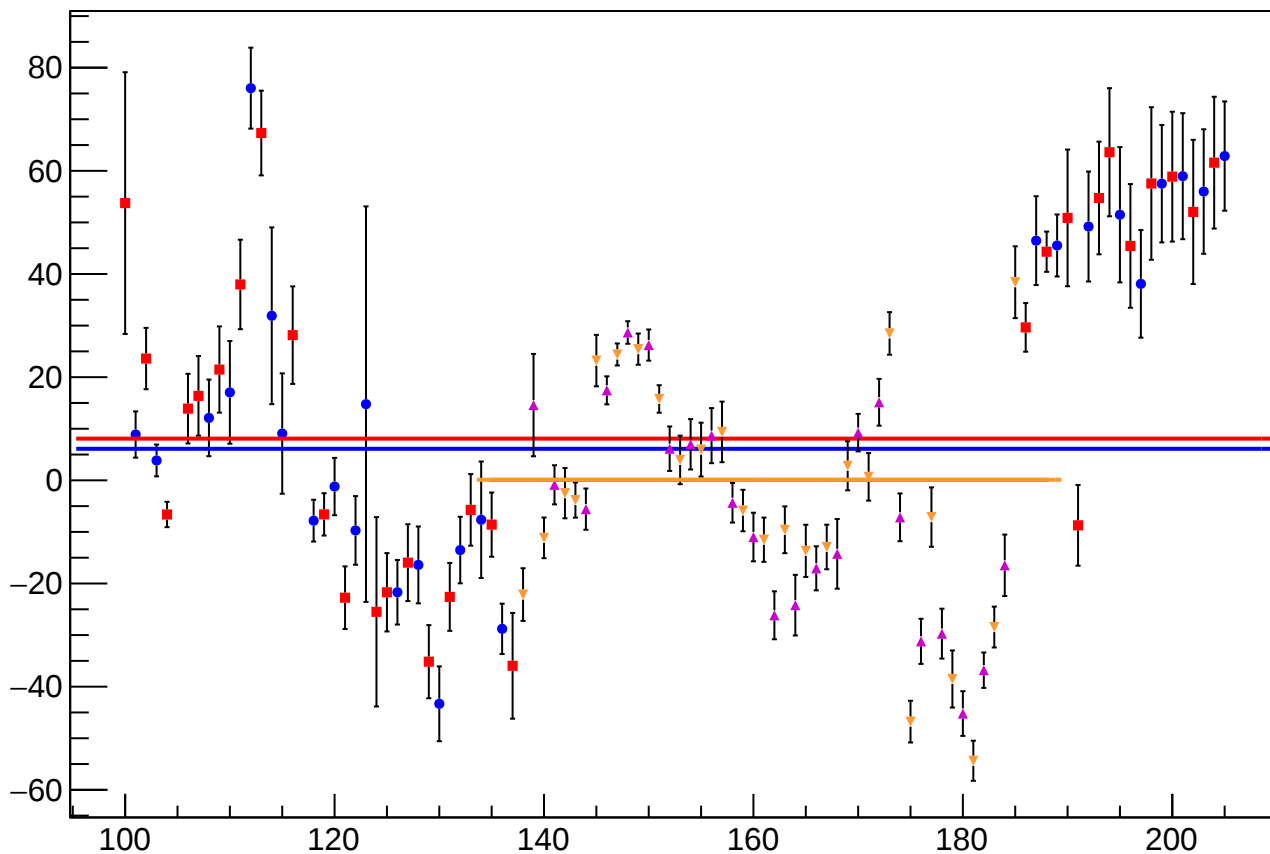
Right: -267.991 ± 1.530 χ^2/NDF : 4667.4/19

In: -207.985 ± 1.010 χ^2/NDF : 4245.0/31

Out: -218.631 ± 0.938 χ^2/NDF : 8133.1/35

All: -213.702 ± 0.687 χ^2/NDF : 12437.8/67

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.114 ± 1.338 $\chi^2/\text{NDF}: 428.5/25$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 8.089 ± 1.205 $\chi^2/\text{NDF}: 500.2/29$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

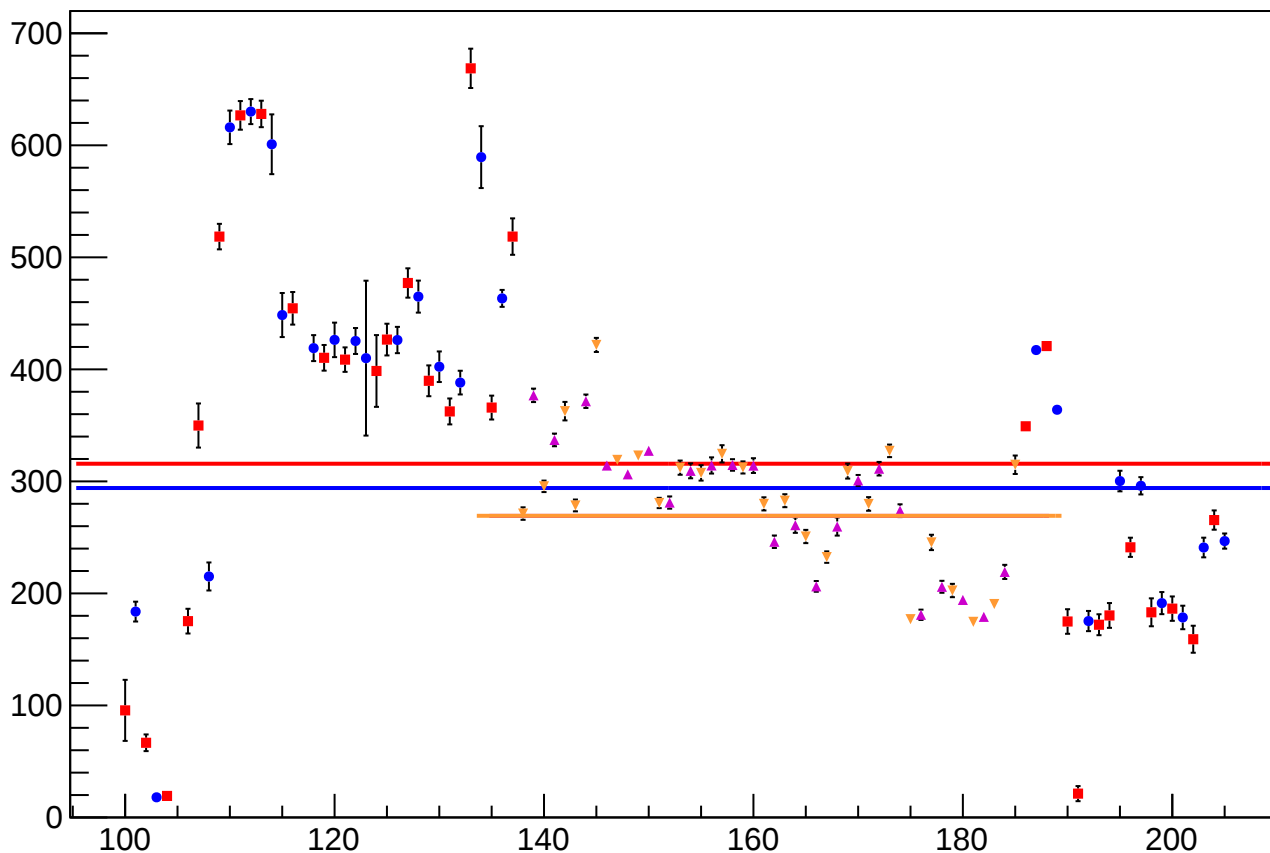
Right: 7.204 ± 0.895 $\chi^2/\text{NDF}: 930.0/55$

In: 1.792 ± 0.710 $\chi^2/\text{NDF}: 1158.5/48$

Out: 2.580 ± 0.671 $\chi^2/\text{NDF}: 1361.8/54$

All: 2.208 ± 0.488 $\chi^2/\text{NDF}: 2520.9/103$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 294.076 $\pm$ 1.671 χ^2 /NDF: 9270.7/25

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 315.760 $\pm$ 1.329 χ^2 /NDF: 13965.2/29

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

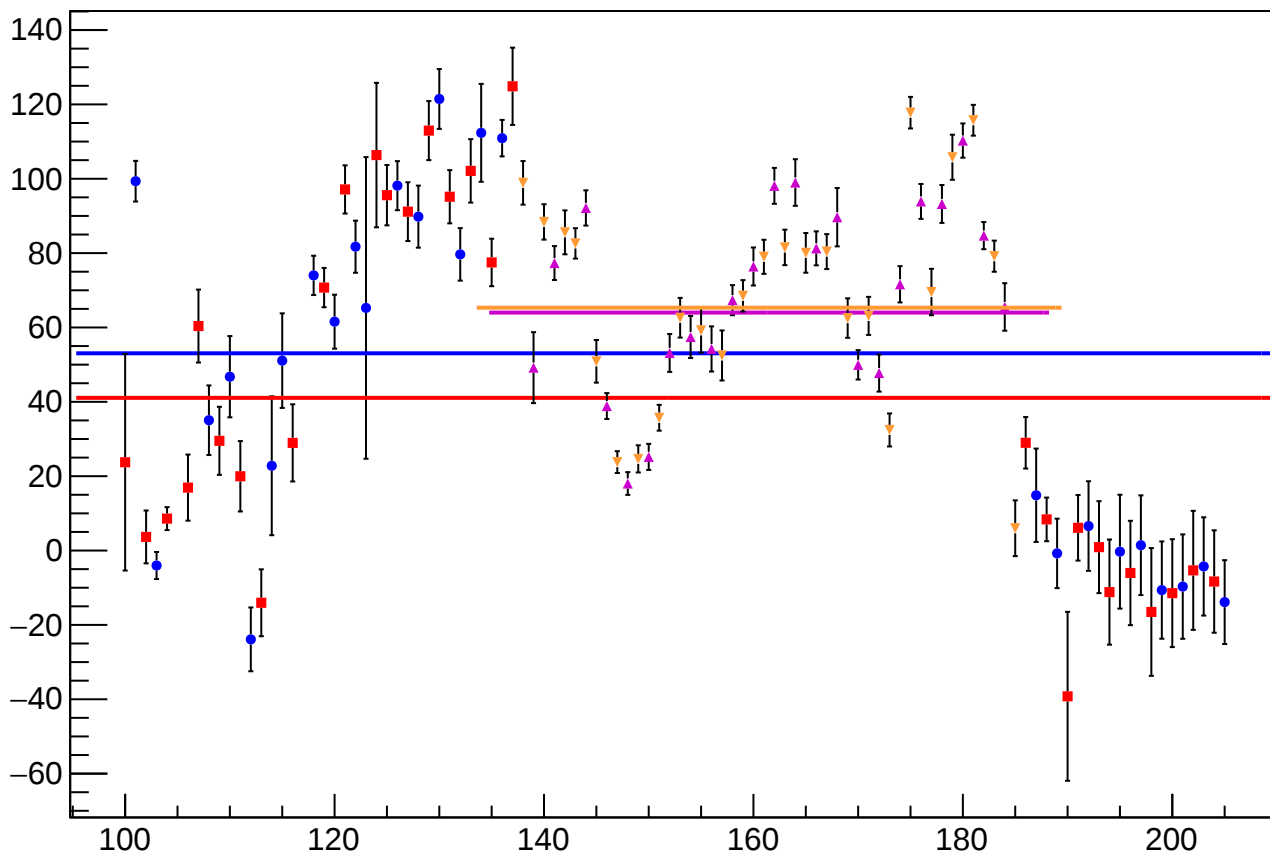
Right: 307.354 $\pm$ 1.040 χ^2 /NDF: 23339.1/55

In: 276.627 $\pm$ 0.913 χ^2 /NDF:12596.5/48

Out: 287.712 $\pm$ 0.837 χ^2 /NDF:17849.8/54

All: 282.651 $\pm$ 0.617 χ^2 /NDF: 30526.4/103

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 53.052 $\pm$ 1.569 χ^2 /NDF: 933.0/25

Left Out: 65.323 $\pm$ 0.935 χ^2 /NDF:1007.1/24

Right Out: 41.073 $\pm$ 1.461 χ^2 /NDF: 829.4/29

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

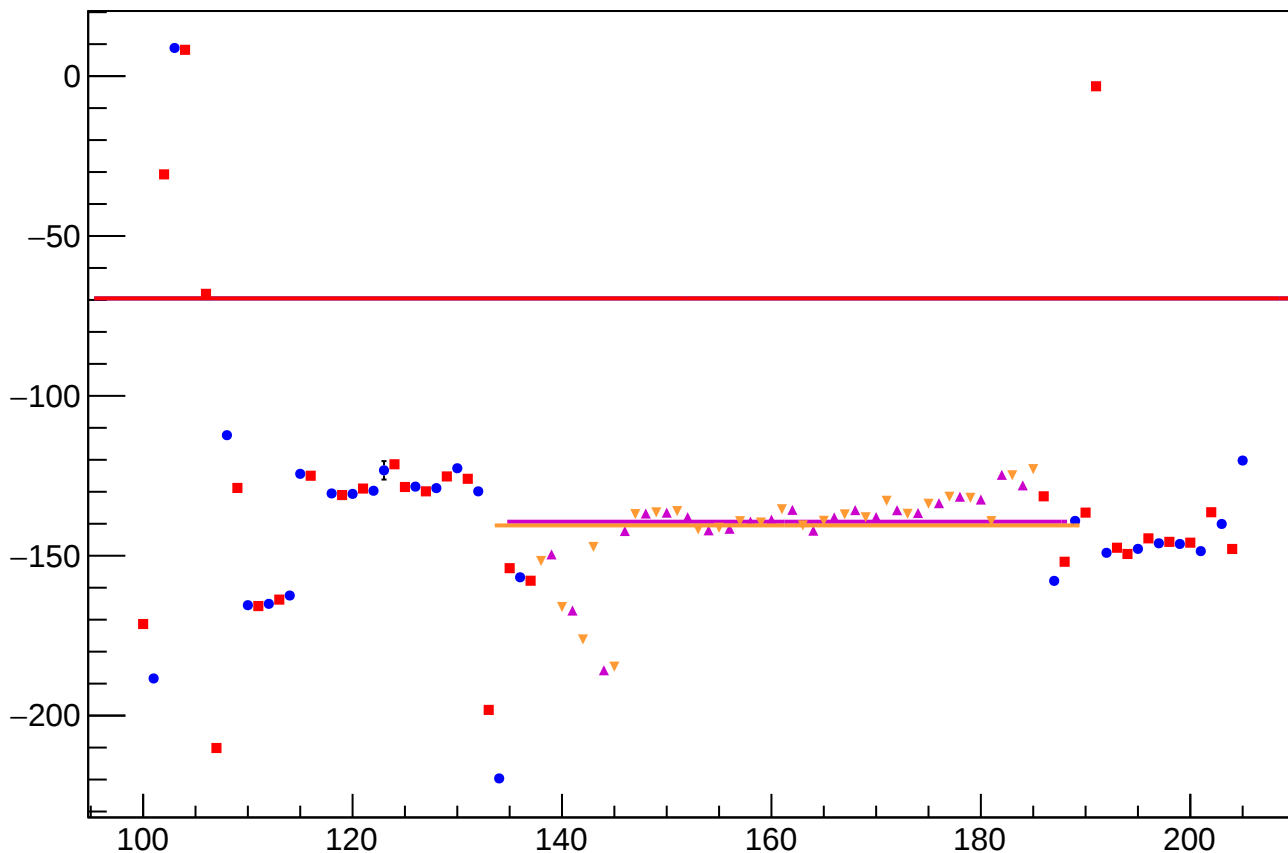
Right: 46.636 $\pm$ 1.069 χ^2 /NDF: 1793.7/55

In: 61.003 $\pm$ 0.821 χ^2 /NDF:1767.8/48

Out: 58.279 $\pm$ 0.787 χ^2 /NDF:2032.1/54

All: 59.585 $\pm$ 0.568 χ^2 /NDF: 3805.6/103

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -69.539 $\pm$ 0.064 χ^2 /NDF: 1526777.8/25

Left Out: -140.519 $\pm$ 0.045 χ^2 /NDF: 77489.0/24

Right Out: -69.519 $\pm$ 0.062 χ^2 /NDF: 1376566.1/29

Left In: -139.360 $\pm$ 0.045 χ^2 /NDF: 62449.0/22

Left: -139.945 $\pm$ 0.032 χ^2 /NDF: 140272.6/47

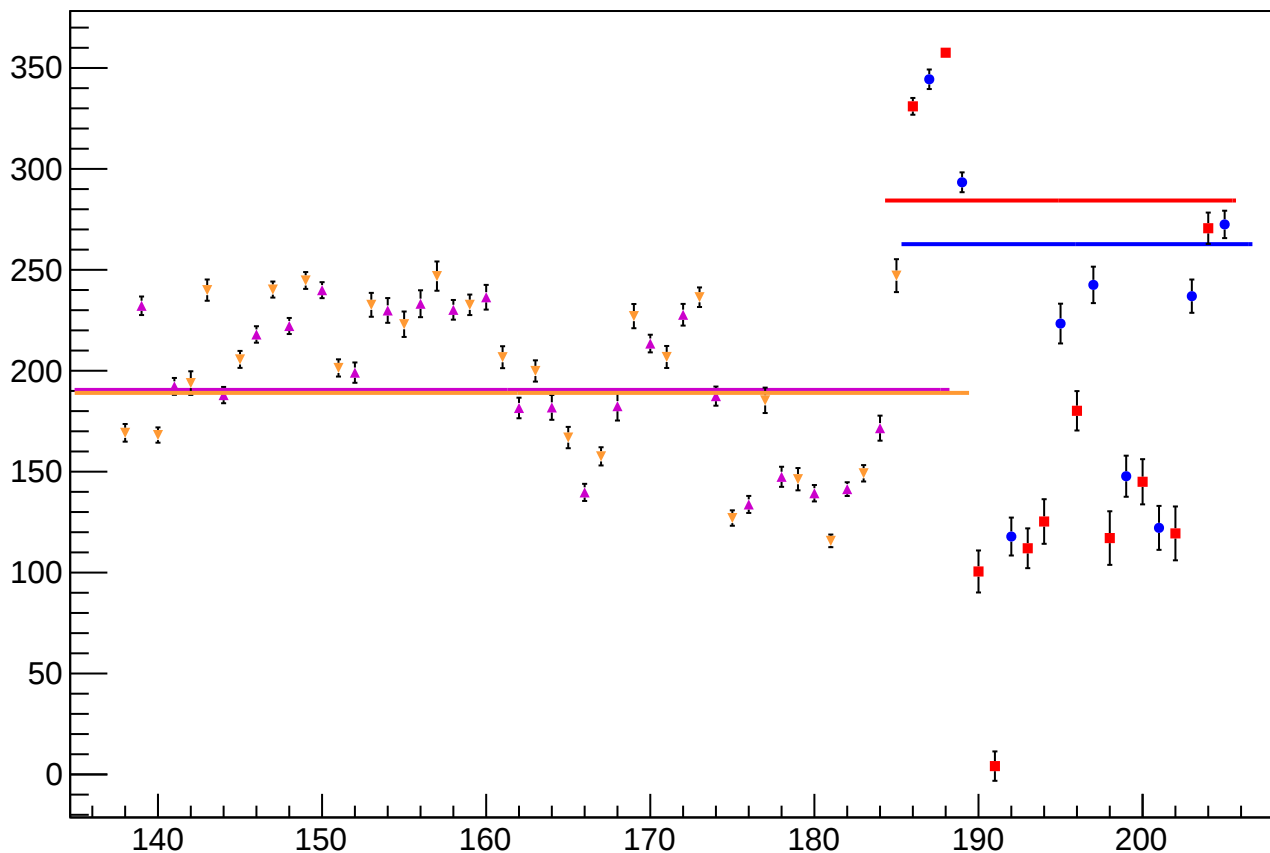
Right: -69.529 $\pm$ 0.044 χ^2 /NDF: 2903343.9/55

In: -116.154 $\pm$ 0.037 χ^2 /NDF: 2389017.9/48

Out: -116.267 $\pm$ 0.036 χ^2 /NDF: 2321500.0/54

All: -116.211 $\pm$ 0.026 χ^2 /NDF: 4710522.7/100

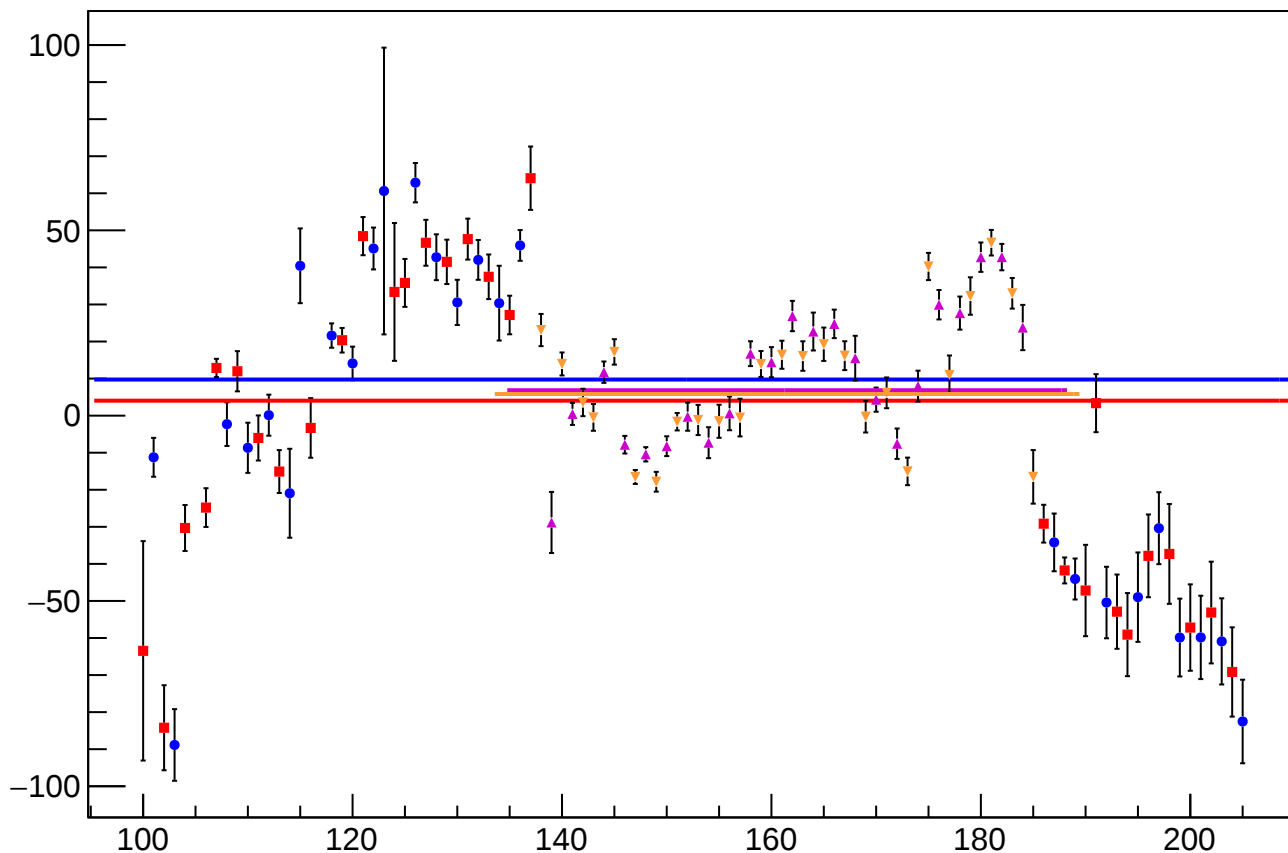
reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 262.715 $\pm$ 2.408 χ^2 /NDF: 888.7/8
 Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24
 Right Out: 284.339 $\pm$ 1.795 χ^2 /NDF: 3869.9/10
 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: 276.611 $\pm$ 1.439 χ^2 /NDF: 4810.4/19
 In: 200.680 $\pm$ 0.904 χ^2 /NDF:3074.1/31
 Out: 210.079 $\pm$ 0.844 χ^2 /NDF:8046.5/35
 All: 205.702 $\pm$ 0.617 χ^2 /NDF: 11178.3/67

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.744 ± 1.269 χ^2/NDF : 854.1/25

Left Out: 5.834 ± 0.712 χ^2/NDF : 652.2/24

Right Out: 4.037 ± 1.081 χ^2/NDF : 928.9/29

Left In: 6.862 ± 0.736 χ^2/NDF : 522.7/22

Left: 6.331 ± 0.512 χ^2/NDF : 1176.0/47

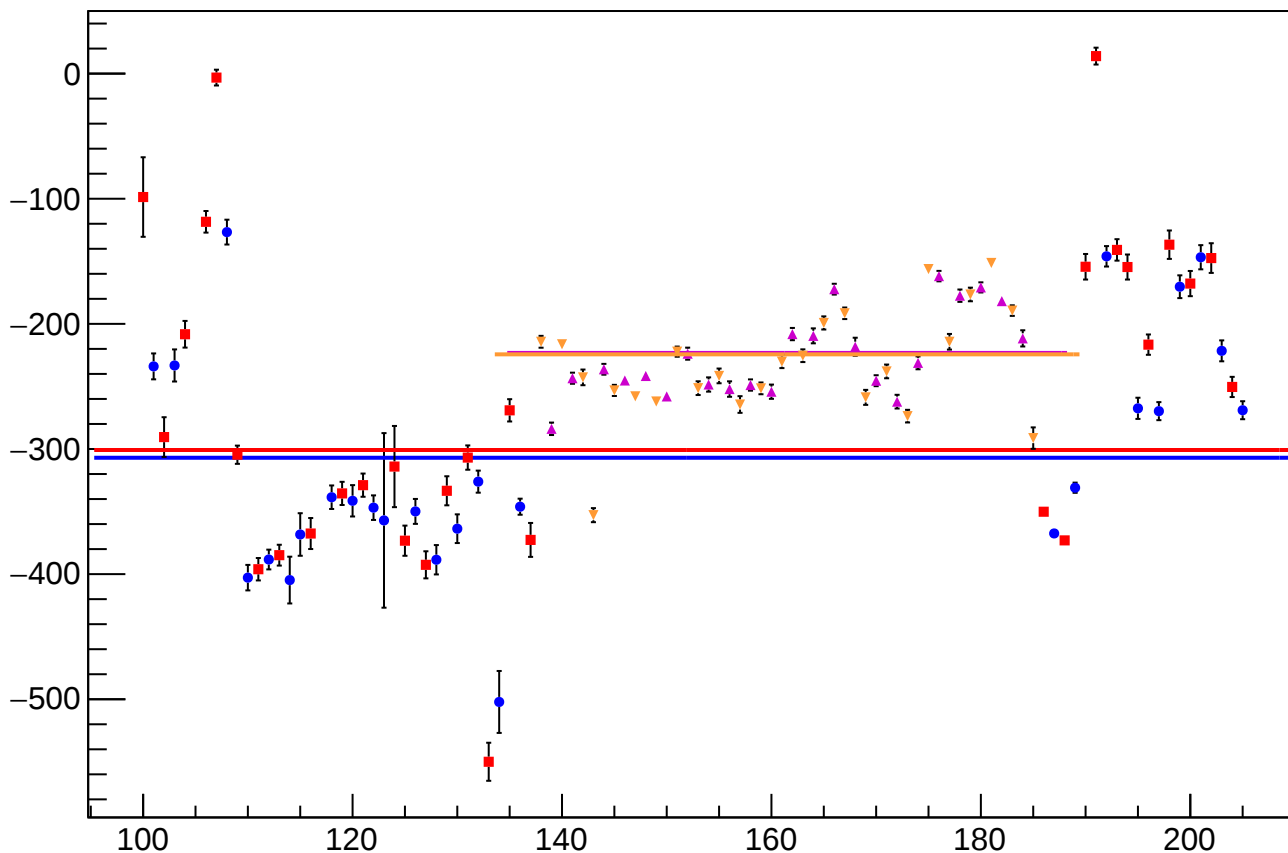
Right: 6.436 ± 0.823 χ^2/NDF : 1794.7/55

In: 7.588 ± 0.637 χ^2/NDF : 1380.7/48

Out: 5.290 ± 0.595 χ^2/NDF : 1583.1/54

All: 6.361 ± 0.435 χ^2/NDF : 2970.8/103

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -306.997 ± 1.627 χ^2/NDF : 2214.8/25

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -300.806 ± 1.257 χ^2/NDF : 8631.0/29

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

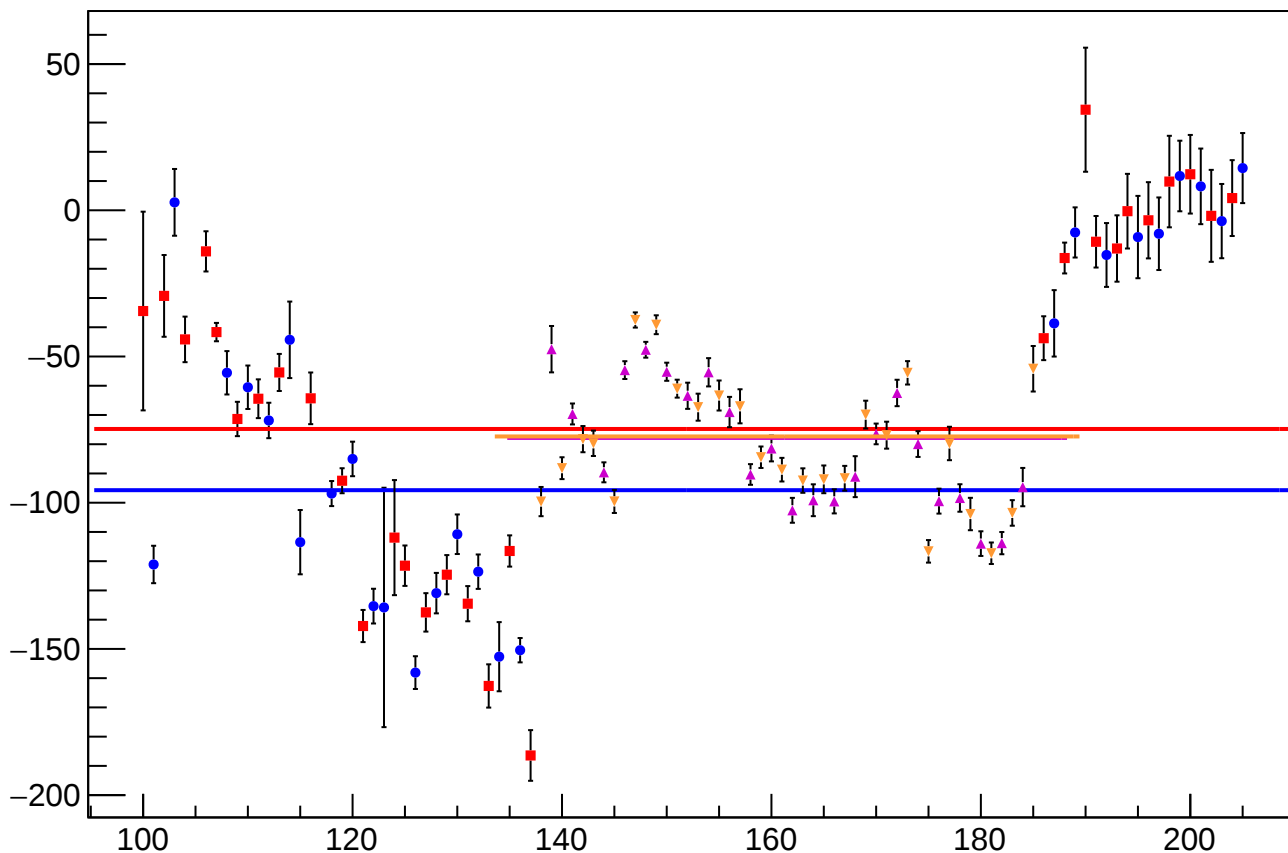
Right: -303.120 ± 0.995 χ^2/NDF : 10854.9/55

In: -245.165 ± 0.833 χ^2/NDF : 5441.1/48

Out: -252.386 ± 0.761 χ^2/NDF : 13077.9/54

All: -249.100 ± 0.562 χ^2/NDF : 18560.1/103

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -95.715 ± 1.478 $\chi^2/\text{NDF}: 1151.3/25$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -74.781 ± 1.298 $\chi^2/\text{NDF}: 1503.0/29$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

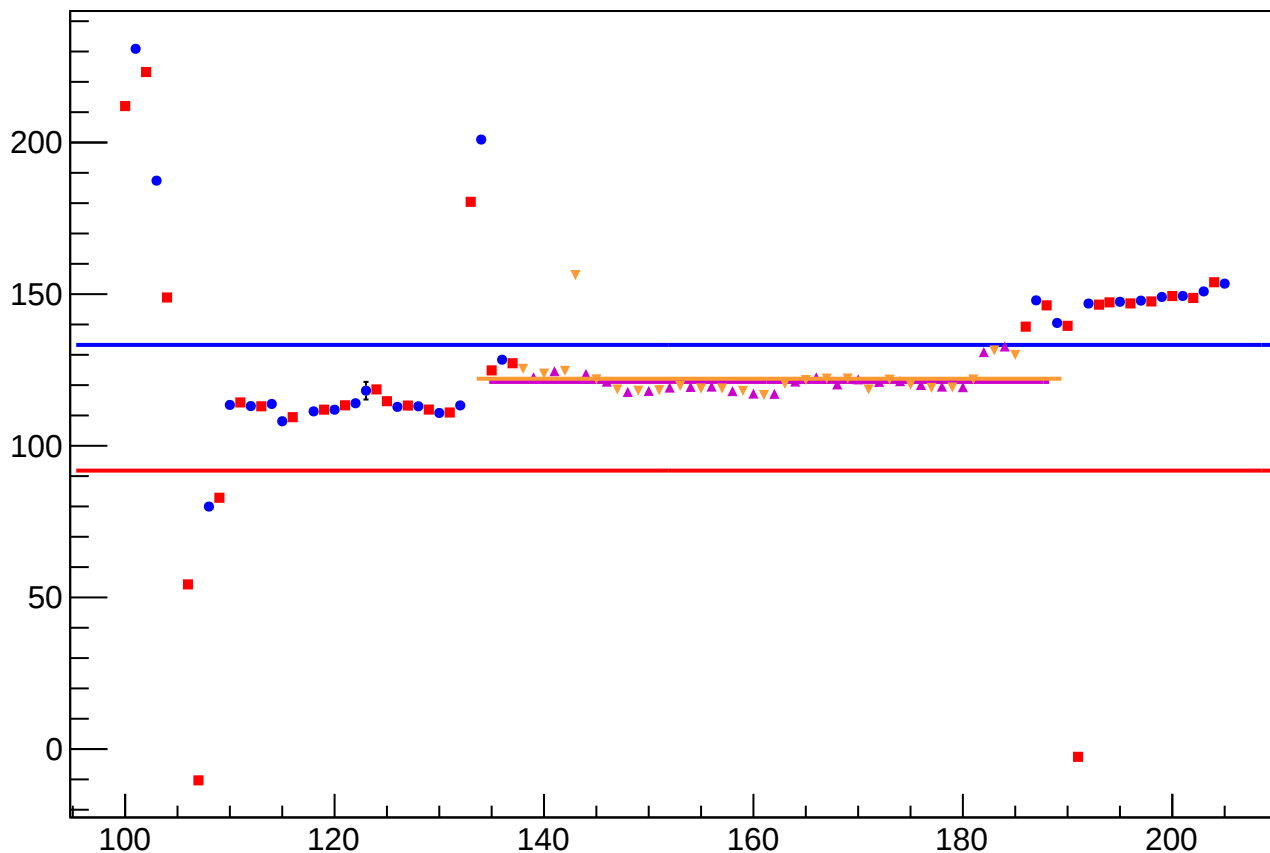
Right: -83.891 ± 0.975 $\chi^2/\text{NDF}: 2767.6/55$

In: -82.270 ± 0.736 $\chi^2/\text{NDF}: 1884.1/48$

Out: -76.604 ± 0.697 $\chi^2/\text{NDF}: 2352.0/54$

All: -79.283 ± 0.506 $\chi^2/\text{NDF}: 4267.3/103$

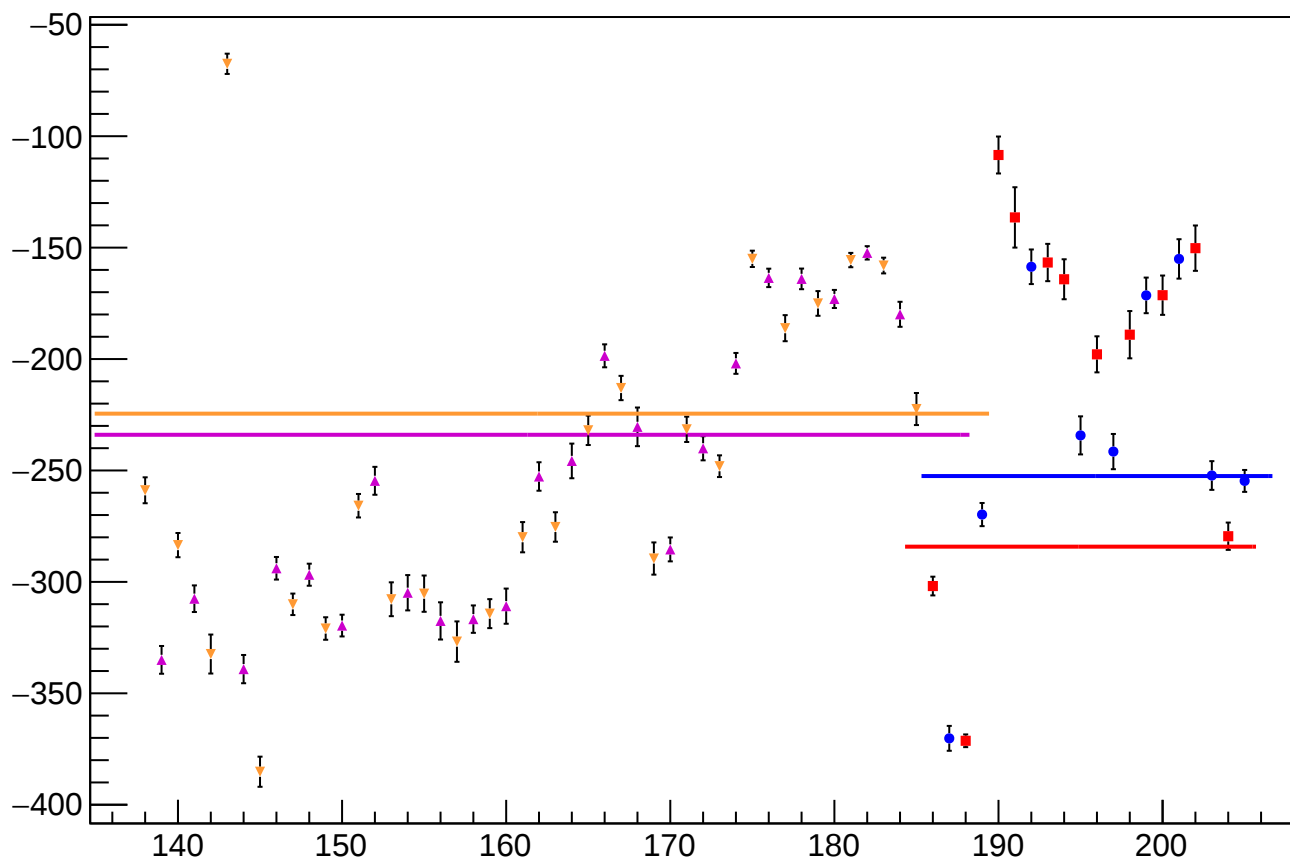
reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 133.263 $\pm$ 0.076 χ^2 /NDF: 203337.2/25
 Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF: 30480.7/24
 Right Out: 91.819 $\pm$ 0.063 χ^2 /NDF: 1112102.6/29
 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: 108.810 $\pm$ 0.048 χ^2 /NDF: 1492774.1/55
 In: 123.698 $\pm$ 0.035 χ^2 /NDF: 231701.9/48
 Out: 113.599 $\pm$ 0.033 χ^2 /NDF: 1308778.2/54
 All: 118.390 $\pm$ 0.024 χ^2 /NDF: 1583810.9/103

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -252.503 ± 2.186 χ^2/NDF : 832.7/8

Left Out: -224.501 ± 1.079 χ^2/NDF : 4870.6/24

Right Out: -284.189 ± 1.827 χ^2/NDF : 2461.7/10

Left In: -233.988 ± 1.109 χ^2/NDF : 3538.4/22

Left: -229.116 ± 0.773 χ^2/NDF : 8446.6/47

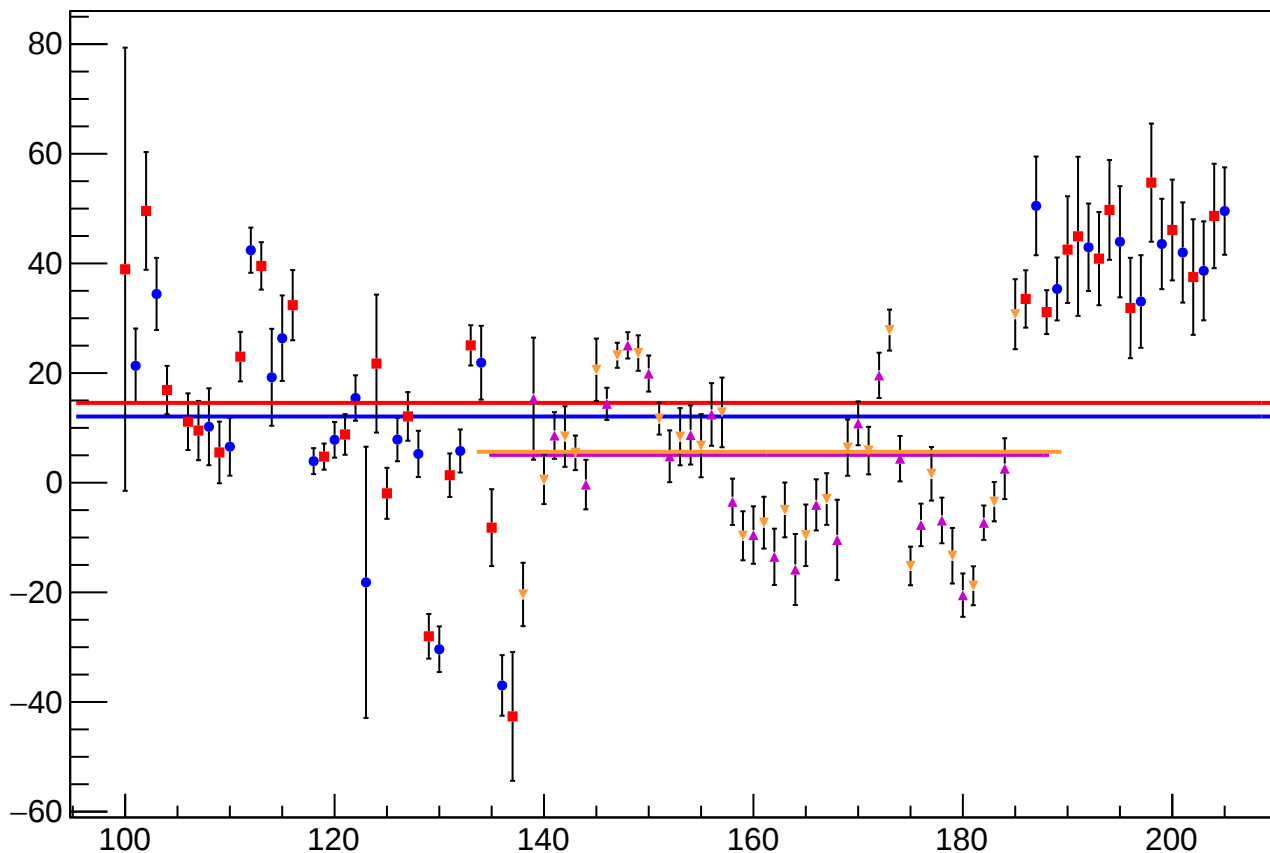
Right: -271.155 ± 1.402 χ^2/NDF : 3418.2/19

In: -237.776 ± 0.989 χ^2/NDF : 4428.2/31

Out: -239.935 ± 0.929 χ^2/NDF : 8123.5/35

All: -238.922 ± 0.677 χ^2/NDF : 12554.2/67

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.075 ± 1.023 $\chi^2/\text{NDF}: 401.5/25$

Left Out: 5.638 ± 0.828 $\chi^2/\text{NDF}: 313.6/24$

Right Out: 14.562 ± 0.971 $\chi^2/\text{NDF}: 369.4/29$

Left In: 5.077 ± 0.869 $\chi^2/\text{NDF}: 239.7/22$

Left: 5.371 ± 0.599 $\chi^2/\text{NDF}: 553.6/47$

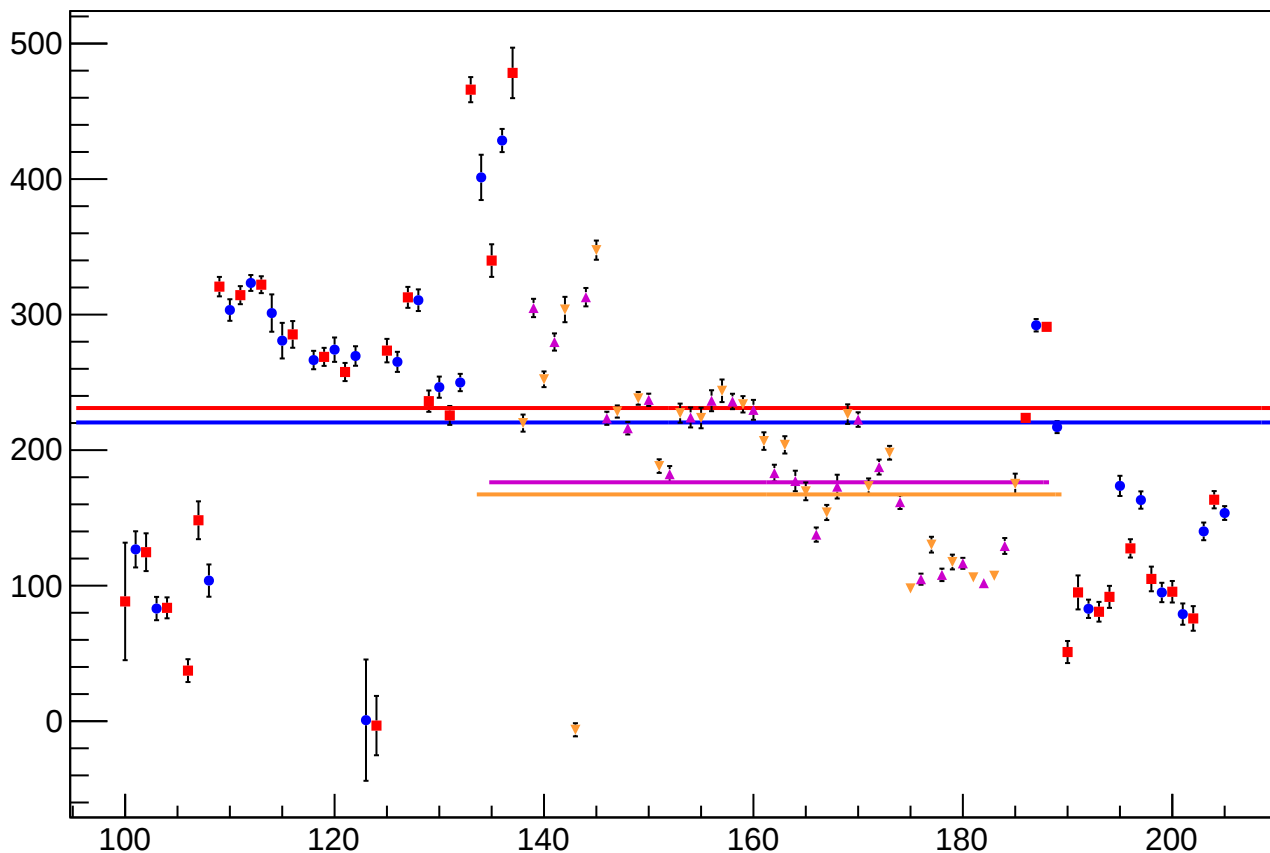
Right: 13.384 ± 0.704 $\chi^2/\text{NDF}: 774.0/55$

In: 8.010 ± 0.662 $\chi^2/\text{NDF}: 668.4/48$

Out: 9.396 ± 0.630 $\chi^2/\text{NDF}: 731.9/54$

All: 8.738 ± 0.456 $\chi^2/\text{NDF}: 1402.6/103$

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 220.418 $\pm$ 1.430 χ^2 /NDF: 3666.0/25

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 231.065 $\pm$ 1.218 χ^2 /NDF: 5884.0/29

Left In: 176.272 $\pm$ 1.106 χ^2 /NDF:3169.5/22

Left: 171.704 $\pm$ 0.774 χ^2 /NDF: 7657.4/47

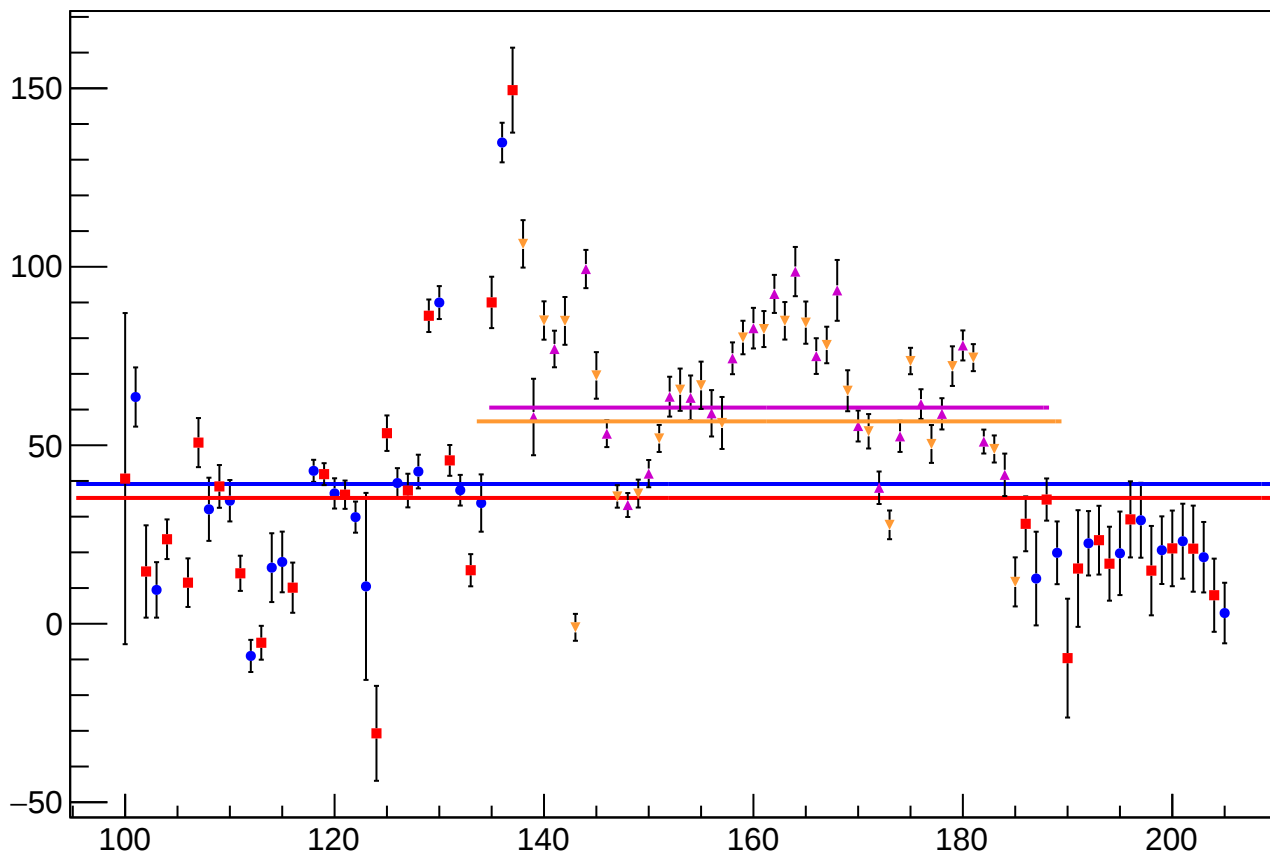
Right: 226.591 $\pm$ 0.927 χ^2 /NDF: 9582.0/55

In: 192.785 $\pm$ 0.875 χ^2 /NDF:7431.7/48

Out: 195.459 $\pm$ 0.809 χ^2 /NDF:11868.6/54

All: 194.226 $\pm$ 0.594 χ^2 /NDF: 19305.4/103

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 39.149 $\pm$ 1.191 χ^2 /NDF: 623.6/25

Left Out: 56.695 $\pm$ 0.952 χ^2 /NDF:690.4/24

Right Out: 35.243 $\pm$ 1.142 χ^2 /NDF: 500.8/29

Left In: 60.555 $\pm$ 0.990 χ^2 /NDF:335.6/22

Left: 58.548 $\pm$ 0.686 χ^2 /NDF: 1034.0/47

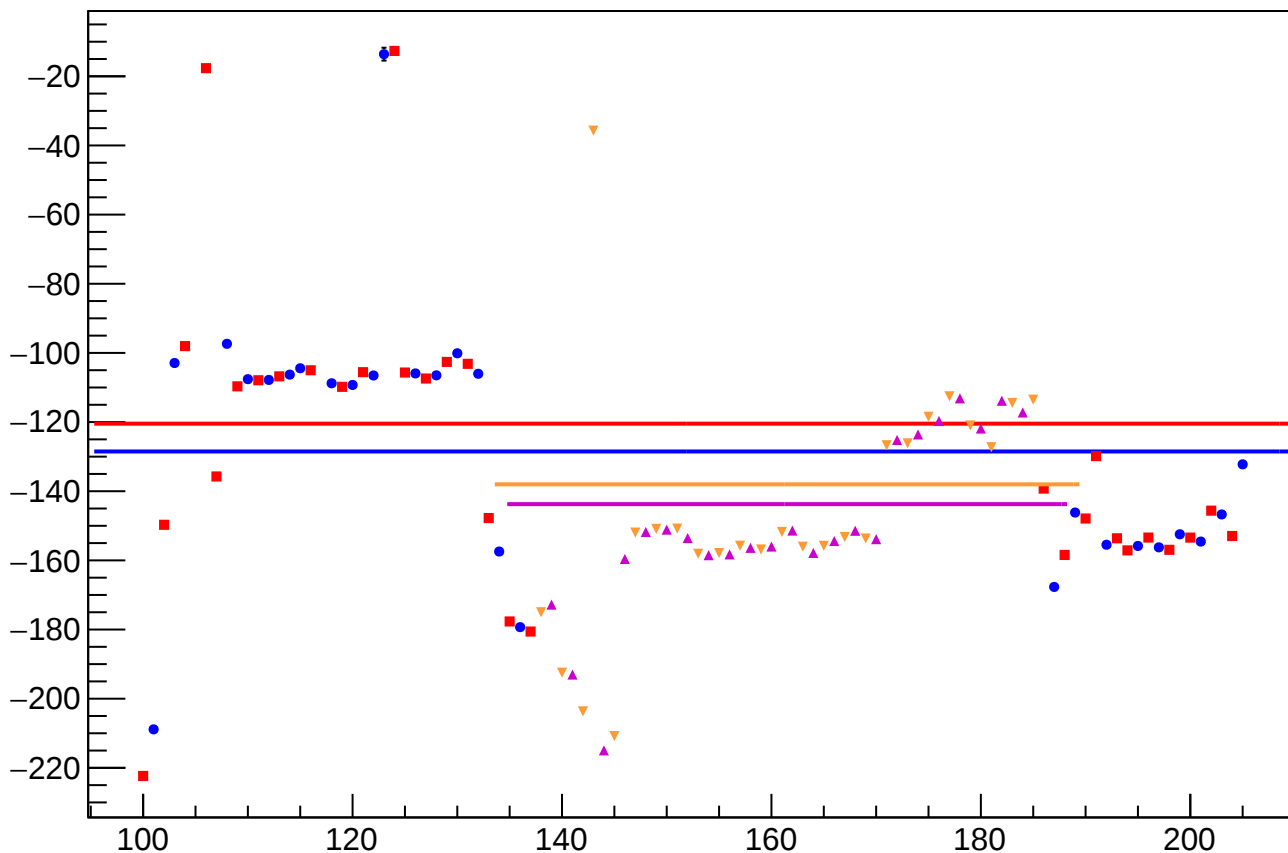
Right: 37.114 $\pm$ 0.824 χ^2 /NDF: 1130.0/55

In: 51.803 $\pm$ 0.761 χ^2 /NDF:1150.3/48

Out: 47.900 $\pm$ 0.731 χ^2 /NDF:1399.5/54

All: 49.773 $\pm$ 0.527 χ^2 /NDF: 2563.5/103

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -128.504+/-0.065 χ^2/NDF : 205095.6/25

Left Out: -138.008+/-0.045 χ^2/NDF : 565767.2/24

Right Out: -120.460+/-0.060 χ^2/NDF : 455053.7/29

Left In: -143.735+/-0.046 χ^2/NDF : 258408.3/22

Left: -140.811+/-0.032 χ^2/NDF : 832055.2/47

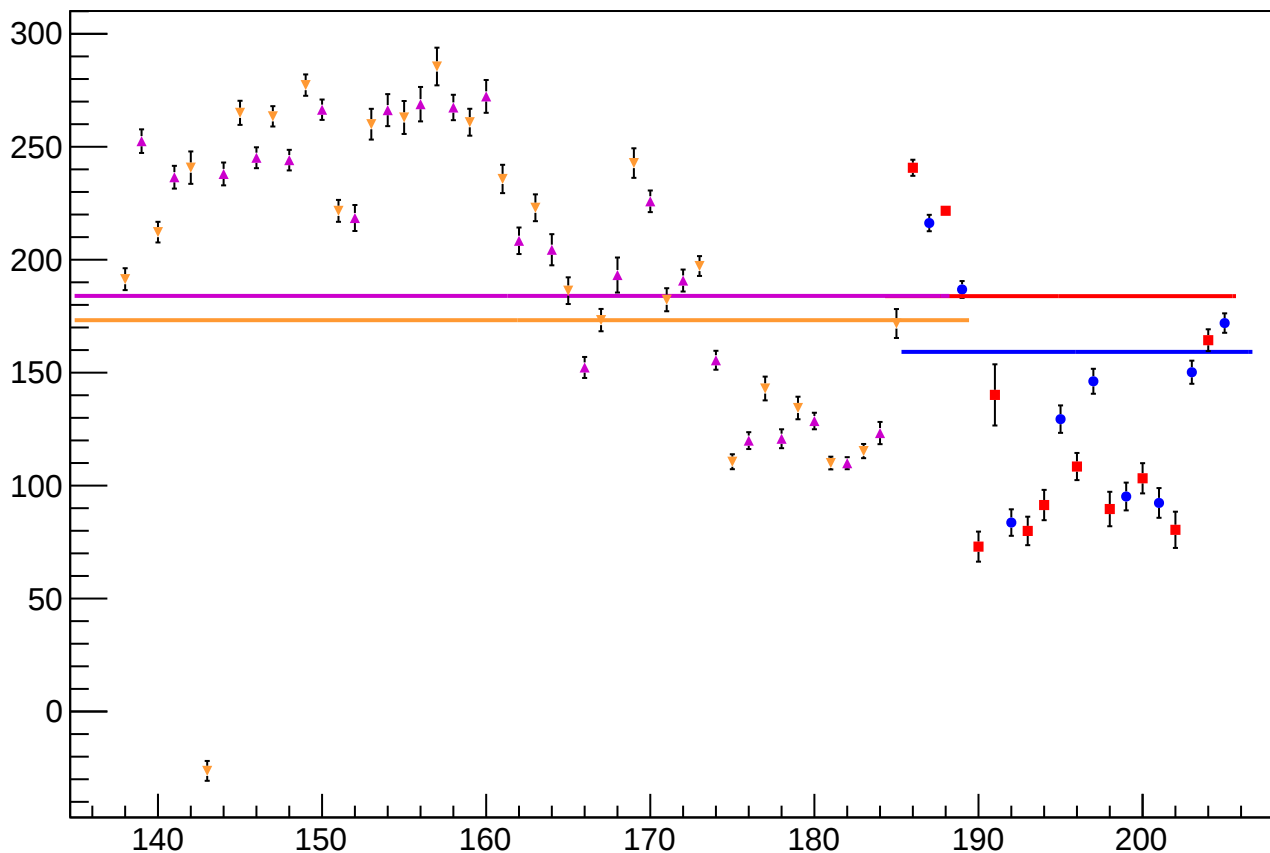
Right: -124.188+/-0.044 χ^2/NDF : 668414.0/55

In: -138.619+/-0.038 χ^2/NDF : 500173.9/48

Out: -131.700+/-0.036 χ^2/NDF : 1075174.5/54

All: -135.024+/-0.026 χ^2/NDF : 1592972.2/100

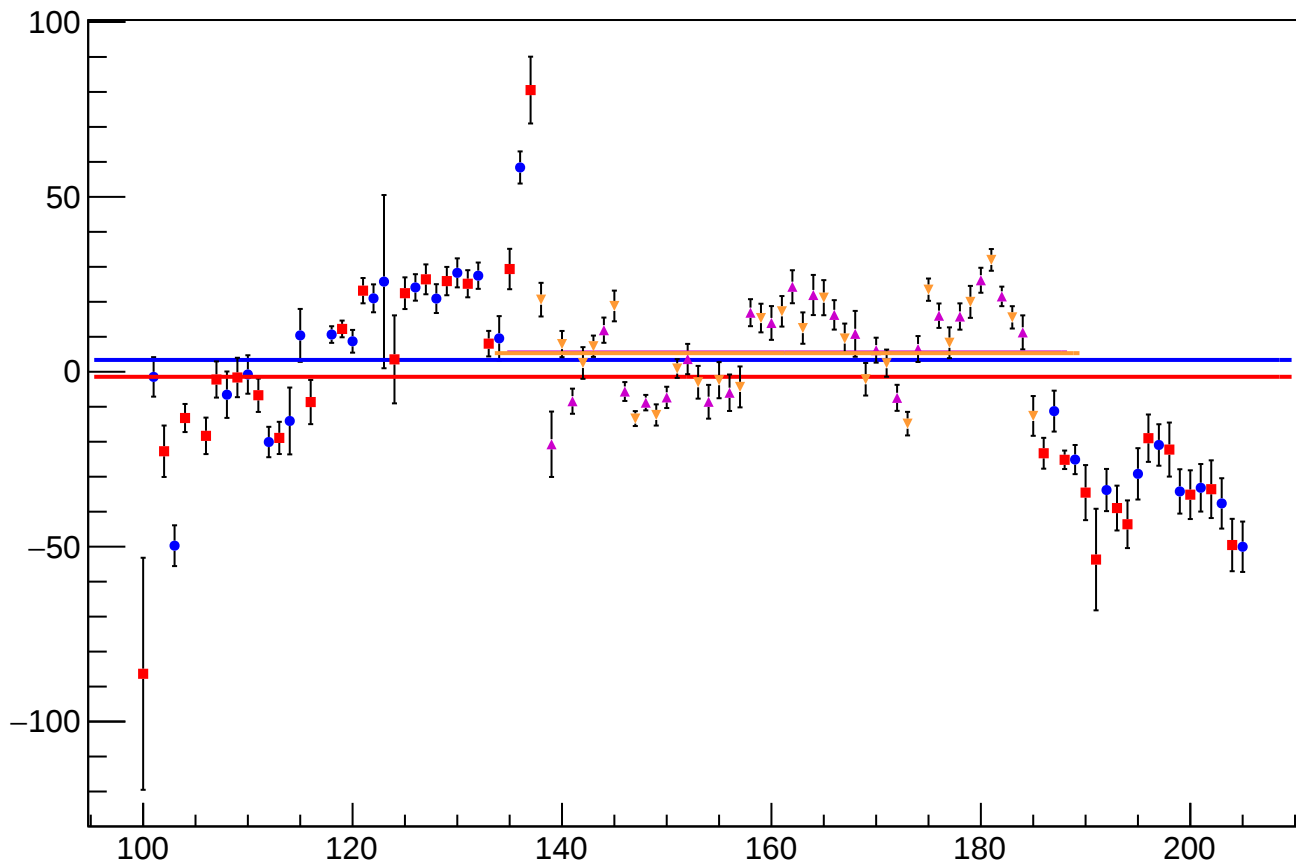
reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 159.203 $\pm$ 1.625 χ^2 /NDF: 720.9/8
 Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF:5846.0/24
 Right Out: 183.879 $\pm$ 1.327 χ^2 /NDF: 2053.7/10
 Left In: 183.984 $\pm$ 0.991 χ^2 /NDF:3613.7/22

Left: 178.467 $\pm$ 0.692 χ^2 /NDF: 9520.1/47
 Right: 174.009 $\pm$ 1.028 χ^2 /NDF: 2913.0/19
 In: 177.268 $\pm$ 0.846 χ^2 /NDF:4504.1/31
 Out: 176.916 $\pm$ 0.781 χ^2 /NDF:7941.8/35
 All: 177.078 $\pm$ 0.574 χ^2 /NDF: 12446.0/67

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.383 ± 0.949 χ^2/NDF : 700.8/25

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -1.440 ± 0.890 χ^2/NDF : 704.7/29

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

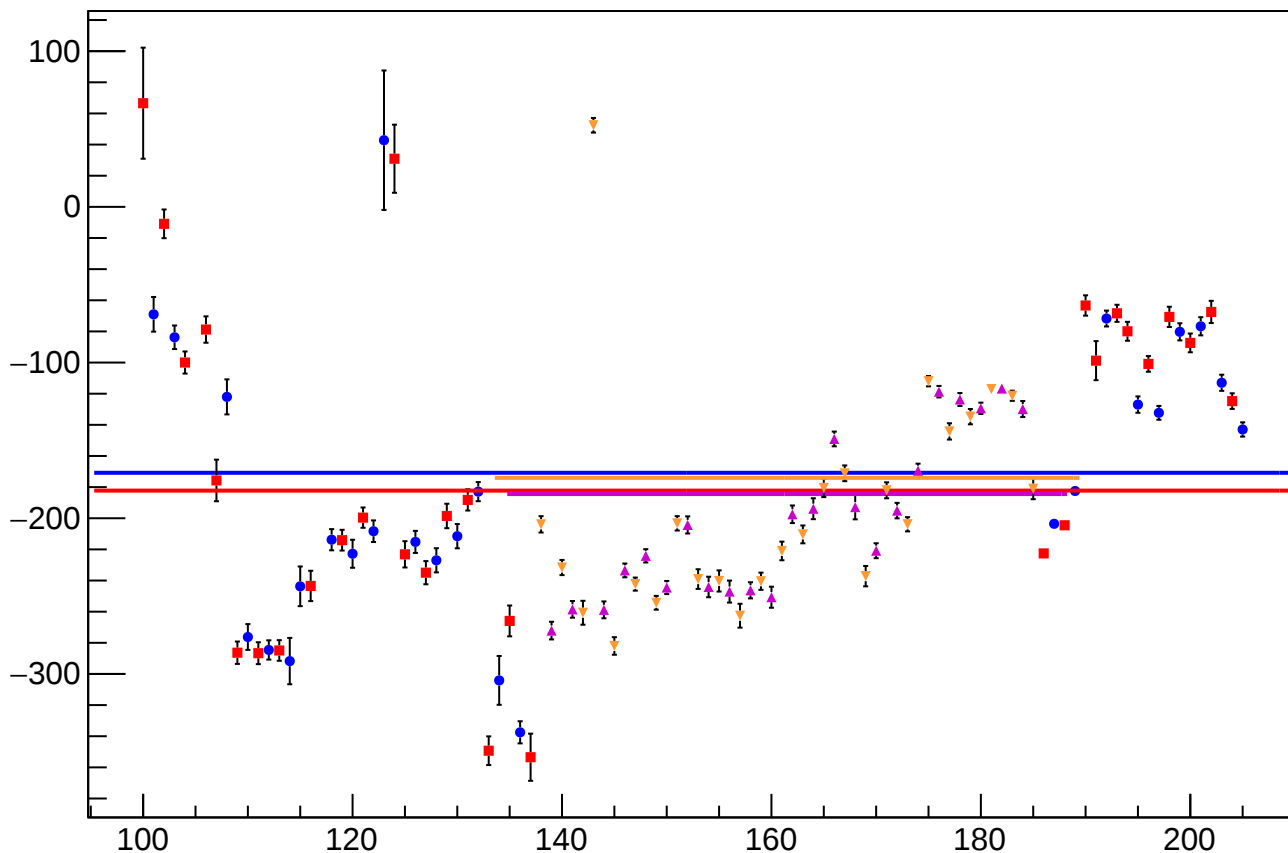
Right: 0.817 ± 0.649 χ^2/NDF : 1419.2/55

In: 4.661 ± 0.603 χ^2/NDF : 960.2/48

Out: 2.526 ± 0.572 χ^2/NDF : 1084.1/54

All: 3.538 ± 0.415 χ^2/NDF : 2050.8/103

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -170.798 ± 1.169 χ^2/NDF : 3052.7/25

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -182.243 ± 0.963 χ^2/NDF : 4827.0/29

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

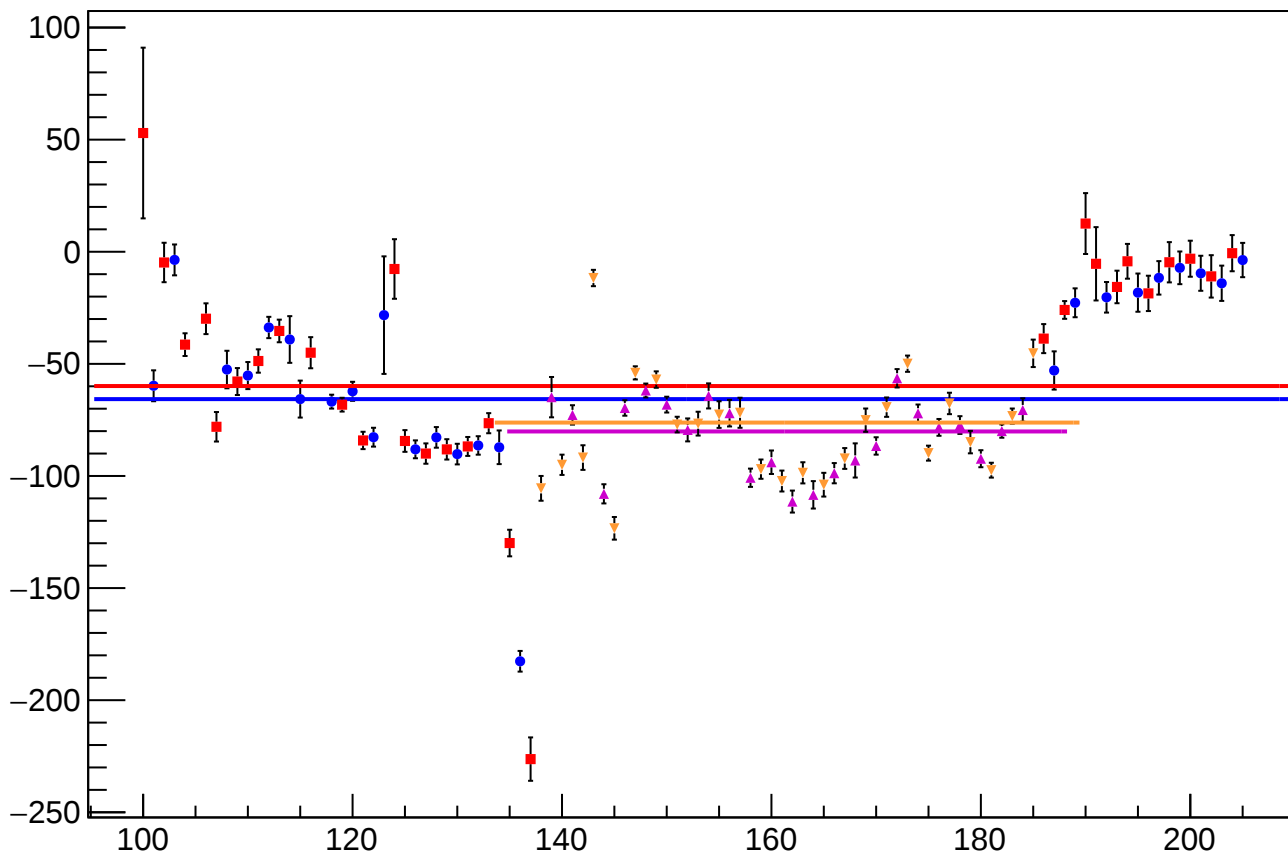
Right: -177.615 ± 0.743 χ^2/NDF : 7936.8/55

In: -178.748 ± 0.756 χ^2/NDF : 6183.8/48

Out: -178.185 ± 0.684 χ^2/NDF : 10306.0/54

All: -178.438 ± 0.507 χ^2/NDF : 16490.1/103

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -65.723 ± 1.111 χ^2/NDF : 1307.8/25

Left Out: -76.182 ± 0.857 χ^2/NDF : 801.0/24

Right Out: -59.889 ± 1.061 χ^2/NDF : 1189.8/29

Left In: -80.149 ± 0.889 χ^2/NDF : 283.3/22

Left: -78.094 ± 0.617 χ^2/NDF : 1094.6/47

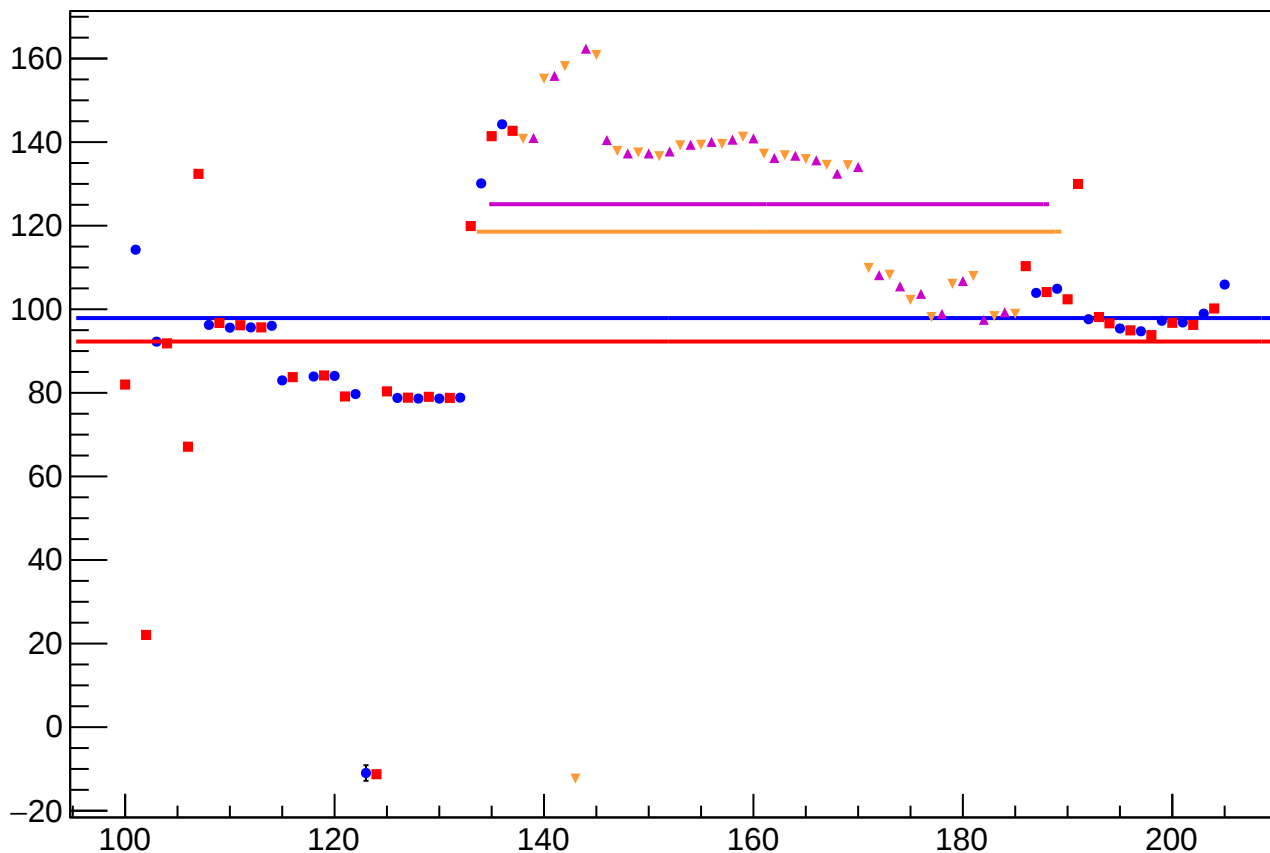
Right: -62.673 ± 0.767 χ^2/NDF : 2512.0/55

In: -74.515 ± 0.694 χ^2/NDF : 1693.9/48

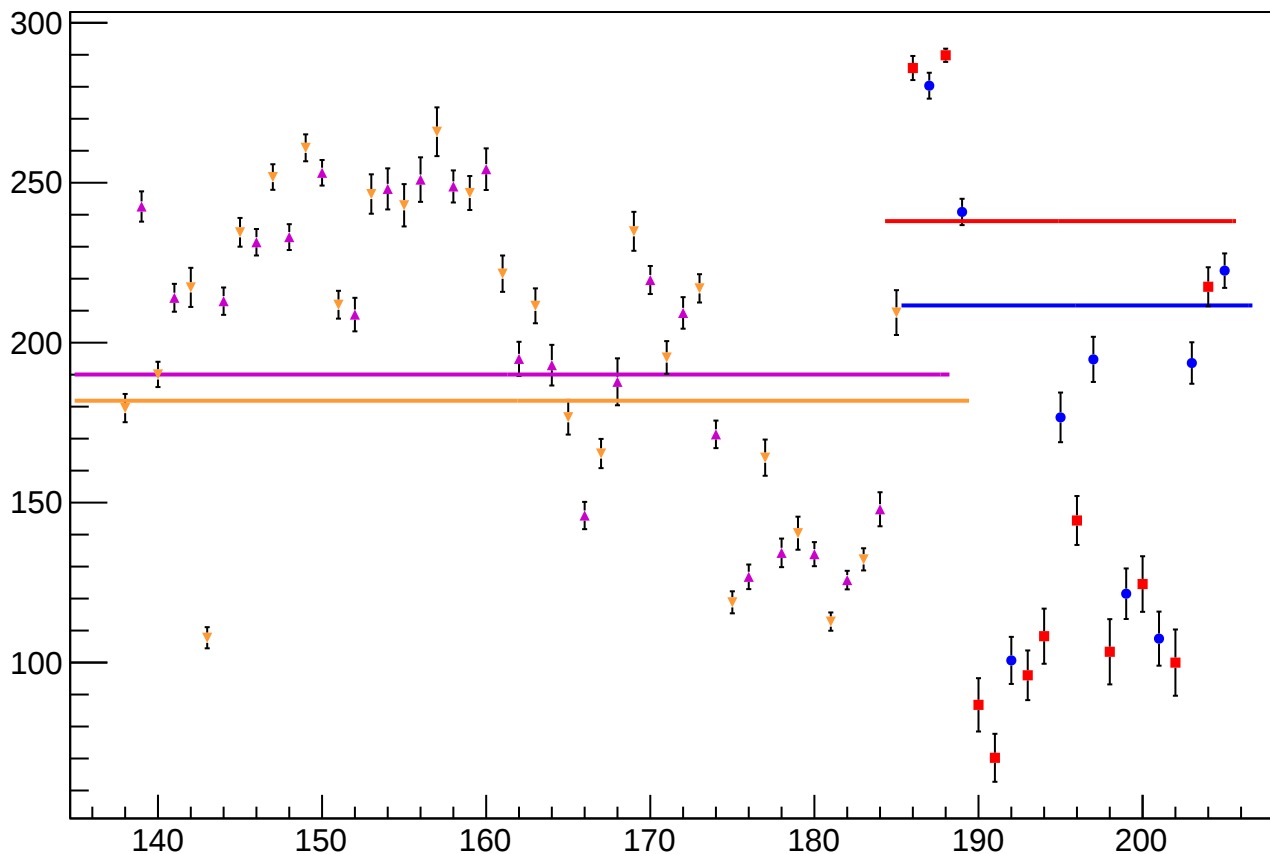
Out: -69.749 ± 0.667 χ^2/NDF : 2133.4/54

All: -72.037 ± 0.481 χ^2/NDF : 3851.8/103

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected

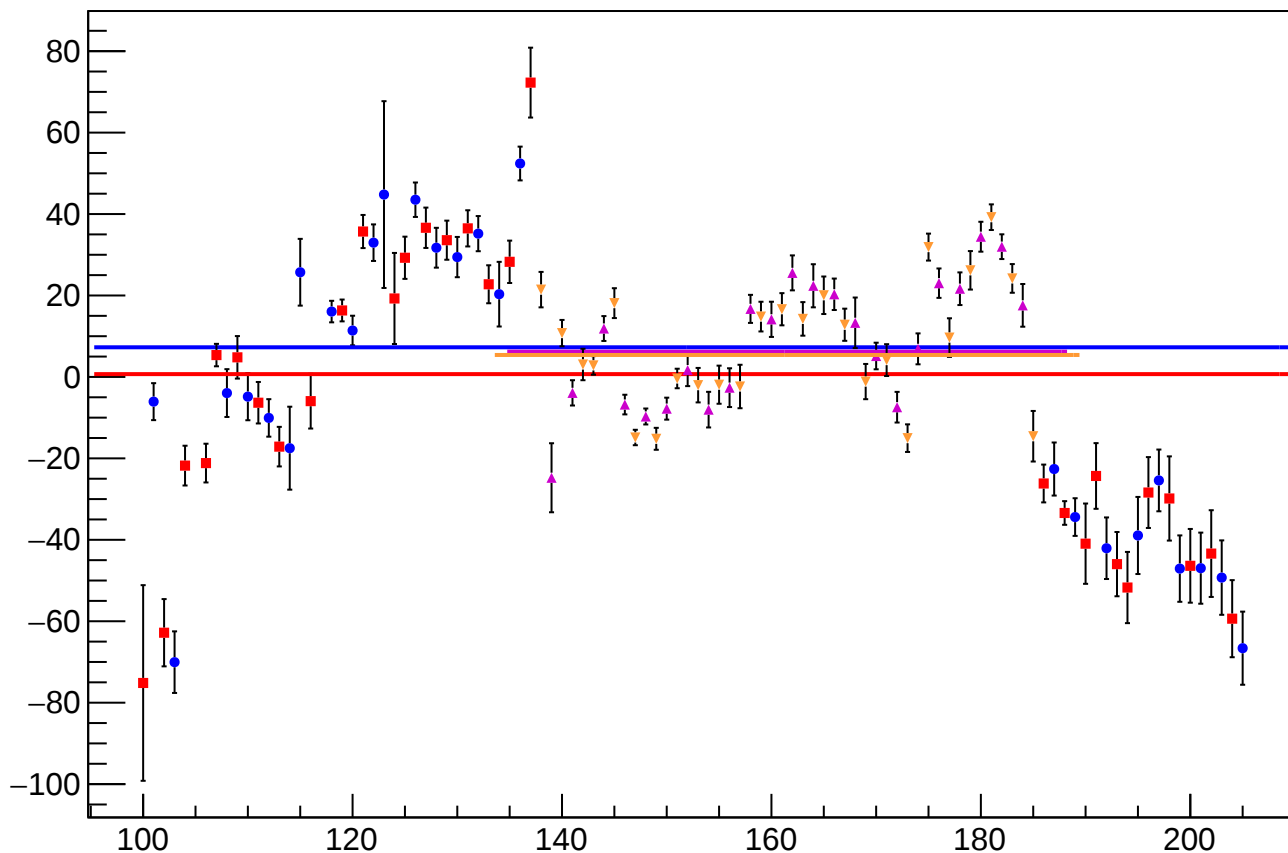


reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Left: 185.775 $\pm$ 0.659 χ^2/NDF : 5780.3/47
 Right: 228.163 $\pm$ 1.190 χ^2/NDF : 3864.4/19
 In: 194.216 $\pm$ 0.856 χ^2/NDF : 3423.3/31
 Out: 196.995 $\pm$ 0.781 χ^2/NDF : 7186.6/35
 All: 195.733 $\pm$ 0.577 χ^2/NDF : 10615.6/67

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.277 ± 1.053 χ^2/NDF : 851.9/25

Left Out: 5.394 ± 0.688 χ^2/NDF : 526.5/24

Right Out: 0.690 ± 0.943 χ^2/NDF : 930.9/29

Left In: 6.206 ± 0.732 χ^2/NDF : 407.5/22

Left: 5.775 ± 0.501 χ^2/NDF : 934.7/47

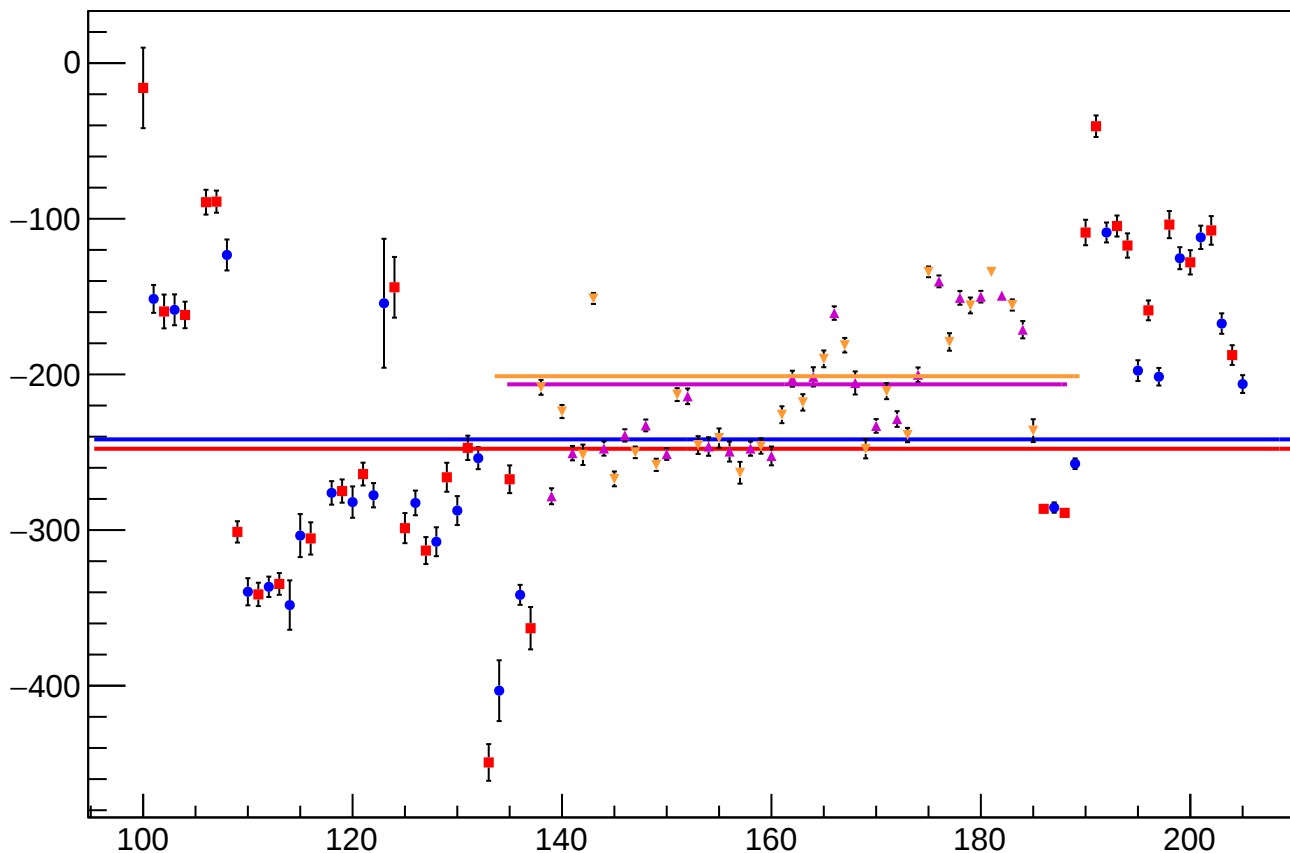
Right: 3.622 ± 0.703 χ^2/NDF : 1804.5/55

In: 6.555 ± 0.601 χ^2/NDF : 1260.1/48

Out: 3.760 ± 0.556 χ^2/NDF : 1473.7/54

All: 5.049 ± 0.408 χ^2/NDF : 2745.4/103

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -241.728 ± 1.343 $\chi^2/\text{NDF}: 2647.5/25$

Left Out: -201.144 ± 0.918 $\chi^2/\text{NDF}: 2488.8/24$

Right Out: -247.779 ± 1.065 $\chi^2/\text{NDF}: 5759.7/29$

Left In: -206.379 ± 0.950 $\chi^2/\text{NDF}: 2111.6/22$

Left: -203.672 ± 0.660 $\chi^2/\text{NDF}: 4616.1/47$

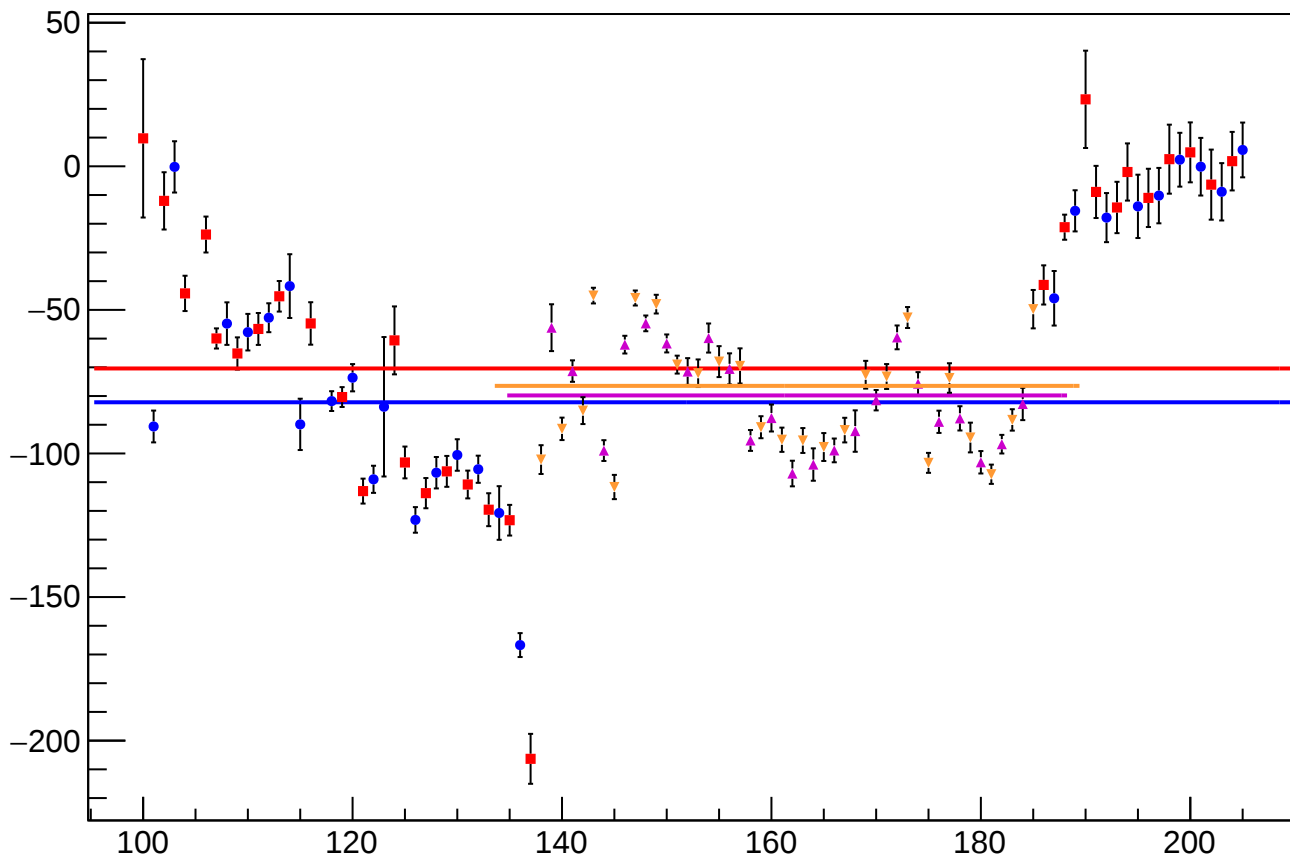
Right: -245.444 ± 0.834 $\chi^2/\text{NDF}: 8419.7/55$

In: -218.162 ± 0.775 $\chi^2/\text{NDF}: 5221.0/48$

Out: -221.026 ± 0.695 $\chi^2/\text{NDF}: 9349.2/54$

All: -219.750 ± 0.518 $\chi^2/\text{NDF}: 14577.7/103$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -82.174 $\pm$ 1.231 χ^2/NDF : 1306.2/25

Left Out: -76.460 $\pm$ 0.797 χ^2/NDF : 781.3/24

Right Out: -70.401 $\pm$ 1.128 χ^2/NDF : 1406.4/29

Left In: -79.792 $\pm$ 0.840 χ^2/NDF : 412.3/22

Left: -78.038 $\pm$ 0.578 χ^2/NDF : 1201.9/47

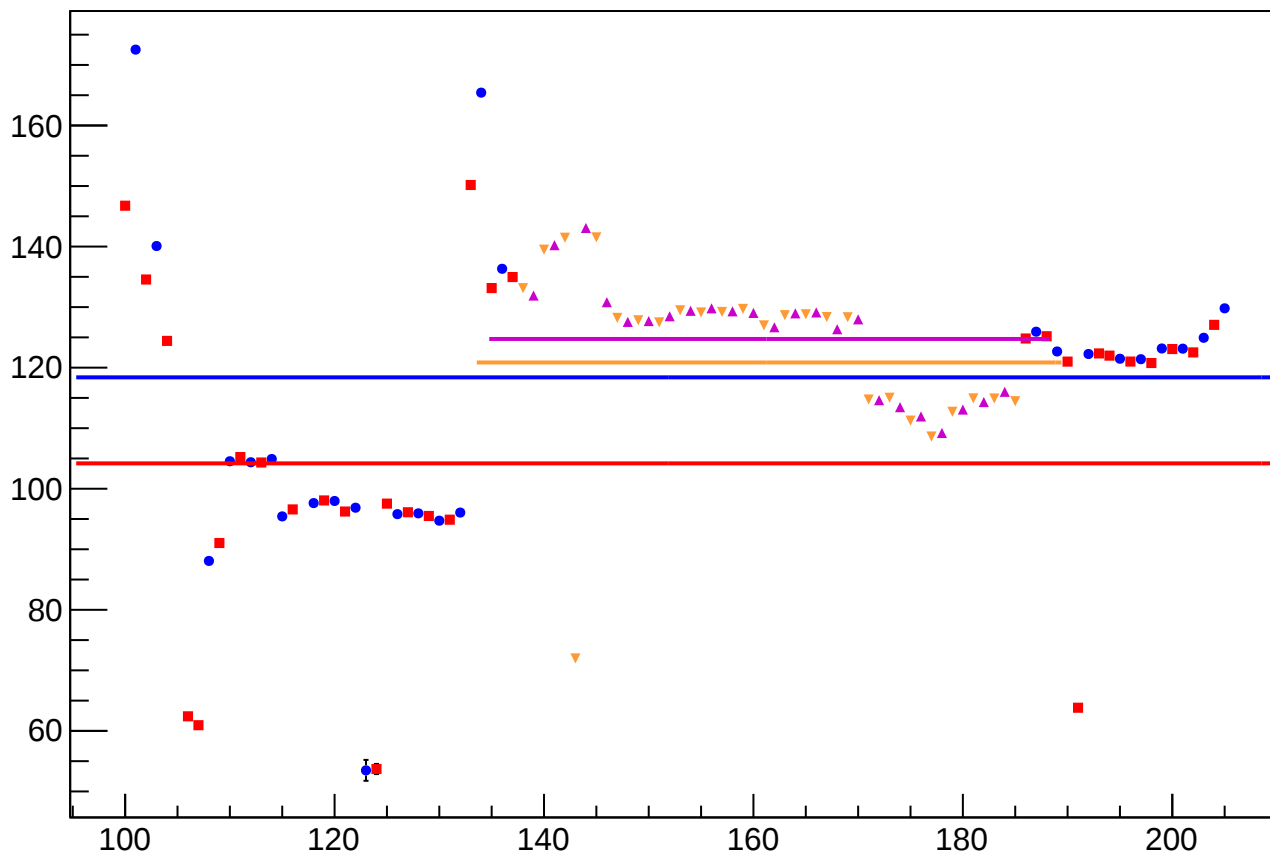
Right: -75.775 $\pm$ 0.832 χ^2/NDF : 2762.3/55

In: -80.548 $\pm$ 0.694 χ^2/NDF : 1721.0/48

Out: -74.444 $\pm$ 0.651 χ^2/NDF : 2207.0/54

All: -77.301 $\pm$ 0.475 χ^2/NDF : 3969.2/103

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 118.399 $\pm$ 0.064 χ^2 /NDF: 108837.3/25

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 104.190 $\pm$ 0.056 χ^2 /NDF: 238372.0/29

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

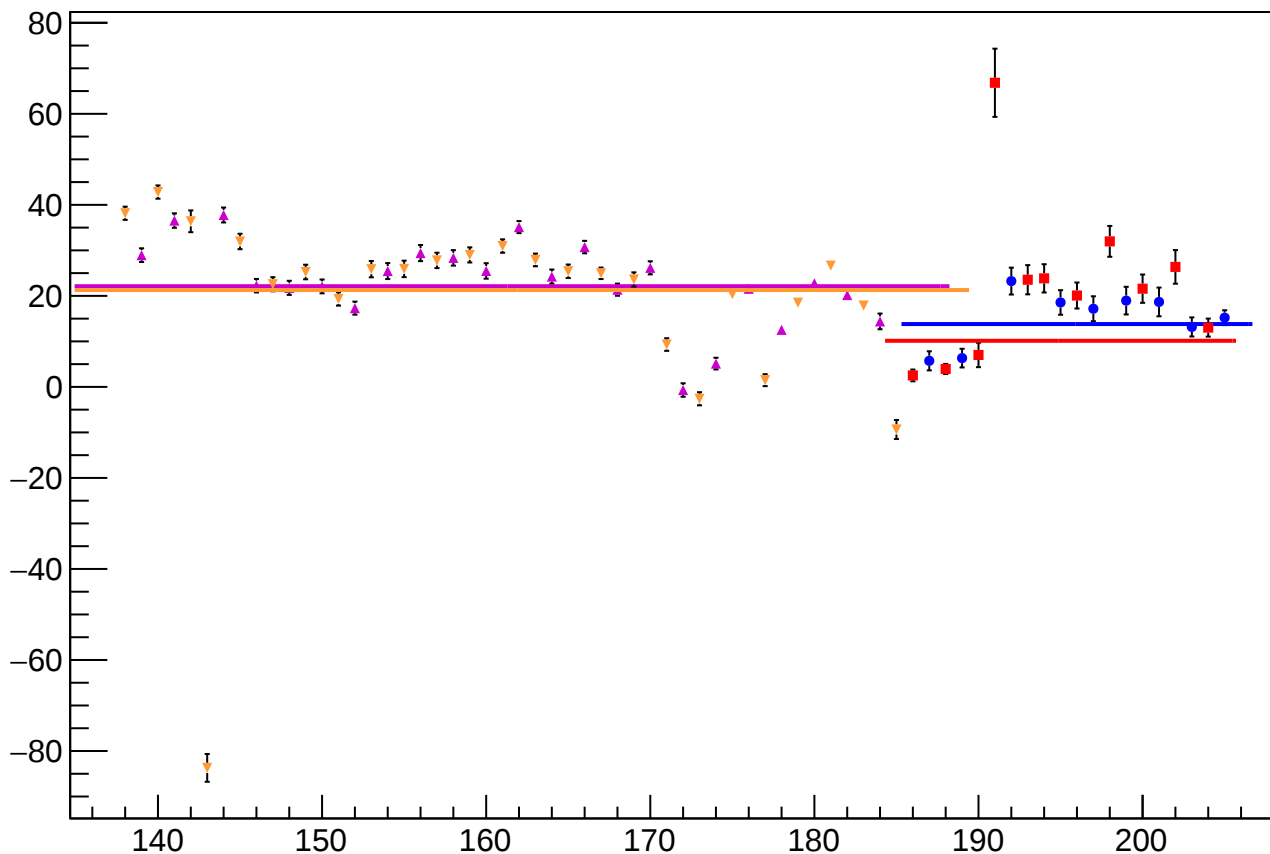
Right: 110.306 $\pm$ 0.042 χ^2 /NDF: 375181.3/55

In: 123.010 $\pm$ 0.033 χ^2 /NDF:167246.1/48

Out: 115.557 $\pm$ 0.031 χ^2 /NDF:482103.1/54

All: 119.049 $\pm$ 0.023 χ^2 /NDF: 675696.3/103

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.808 $\pm$ 0.776 χ^2 /NDF: 49.0/8

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 10.134 $\pm$ 0.645 χ^2 /NDF: 249.8/10

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

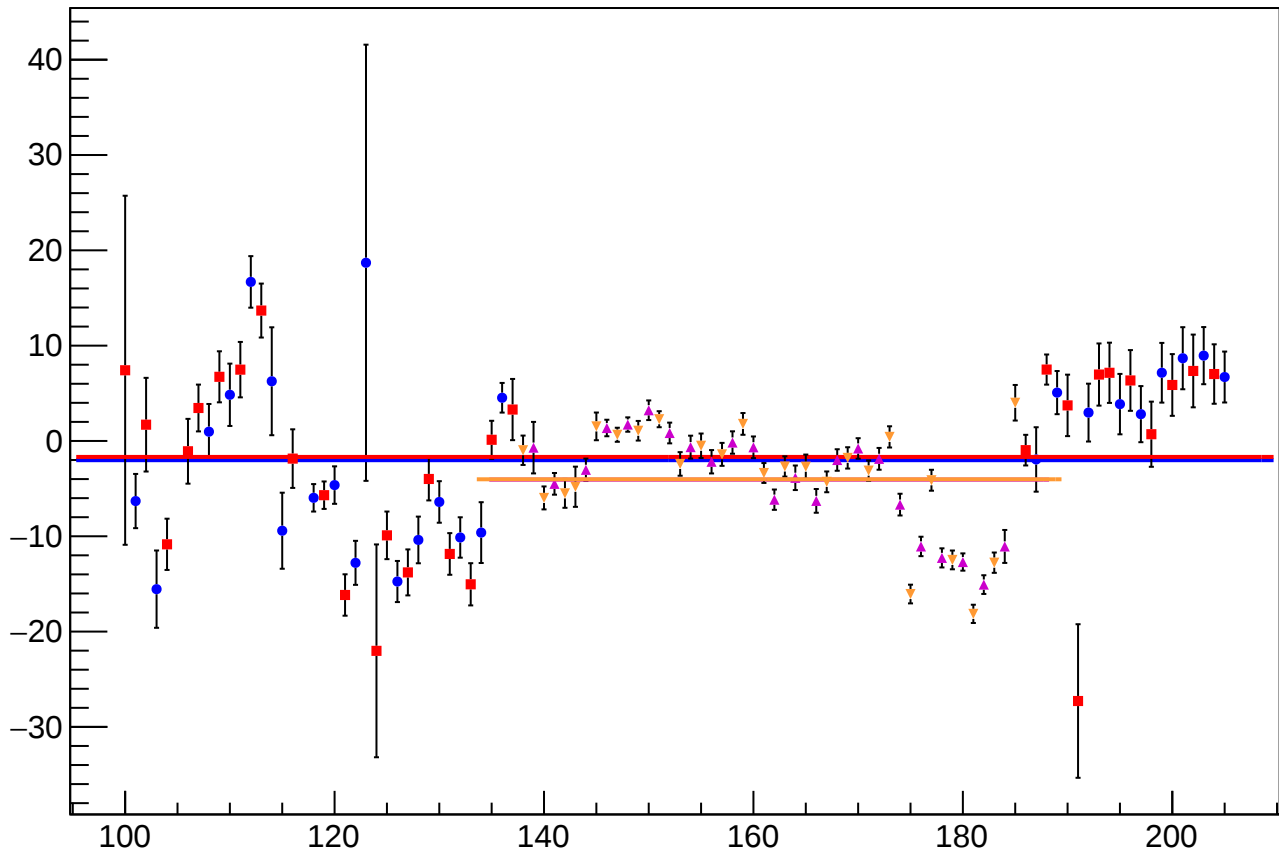
Right: 11.637 $\pm$ 0.496 χ^2 /NDF: 312.1/19

In: 21.134 $\pm$ 0.268 χ^2 /NDF:1050.6/31

Out: 19.490 $\pm$ 0.259 χ^2 /NDF:3100.7/35

All: 20.283 $\pm$ 0.186 χ^2 /NDF: 4170.7/67

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.018 ± 0.504 $\chi^2/\text{NDF}: 254.8/25$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -1.675 ± 0.473 $\chi^2/\text{NDF}: 307.2/29$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

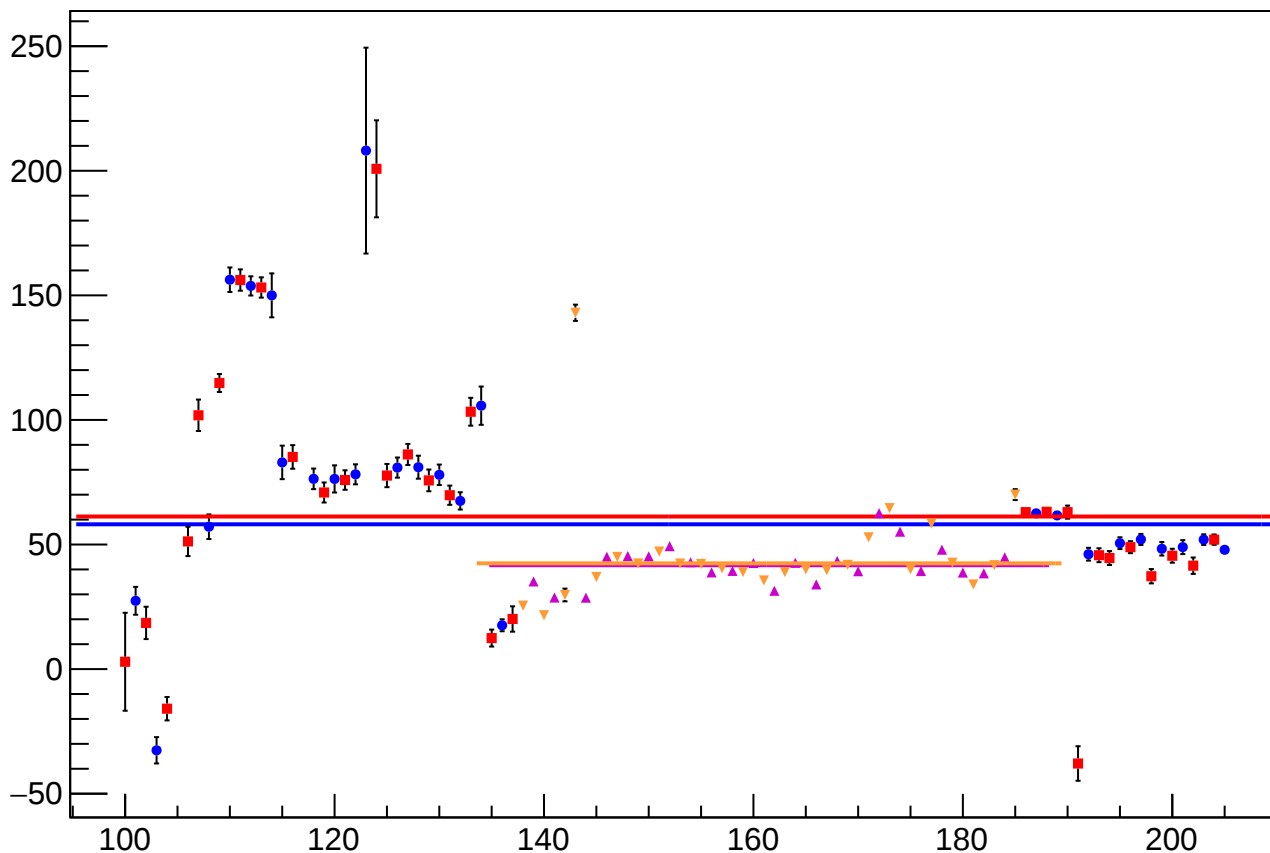
Right: -1.836 ± 0.345 $\chi^2/\text{NDF}: 562.2/55$

In: -3.712 ± 0.208 $\chi^2/\text{NDF}: 845.6/48$

Out: -3.595 ± 0.202 $\chi^2/\text{NDF}: 1061.4/54$

All: -3.652 ± 0.145 $\chi^2/\text{NDF}: 1907.2/103$

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 58.120+/-0.590 χ^2/NDF : 2061.4/25

Left Out: 42.452+/-0.282 χ^2/NDF :2016.0/24

Right Out: 61.235+/-0.488 χ^2/NDF : 2535.1/29

Left In: 41.695+/-0.284 χ^2/NDF :630.2/22

Left: 42.077+/-0.200 χ^2/NDF : 2649.8/47

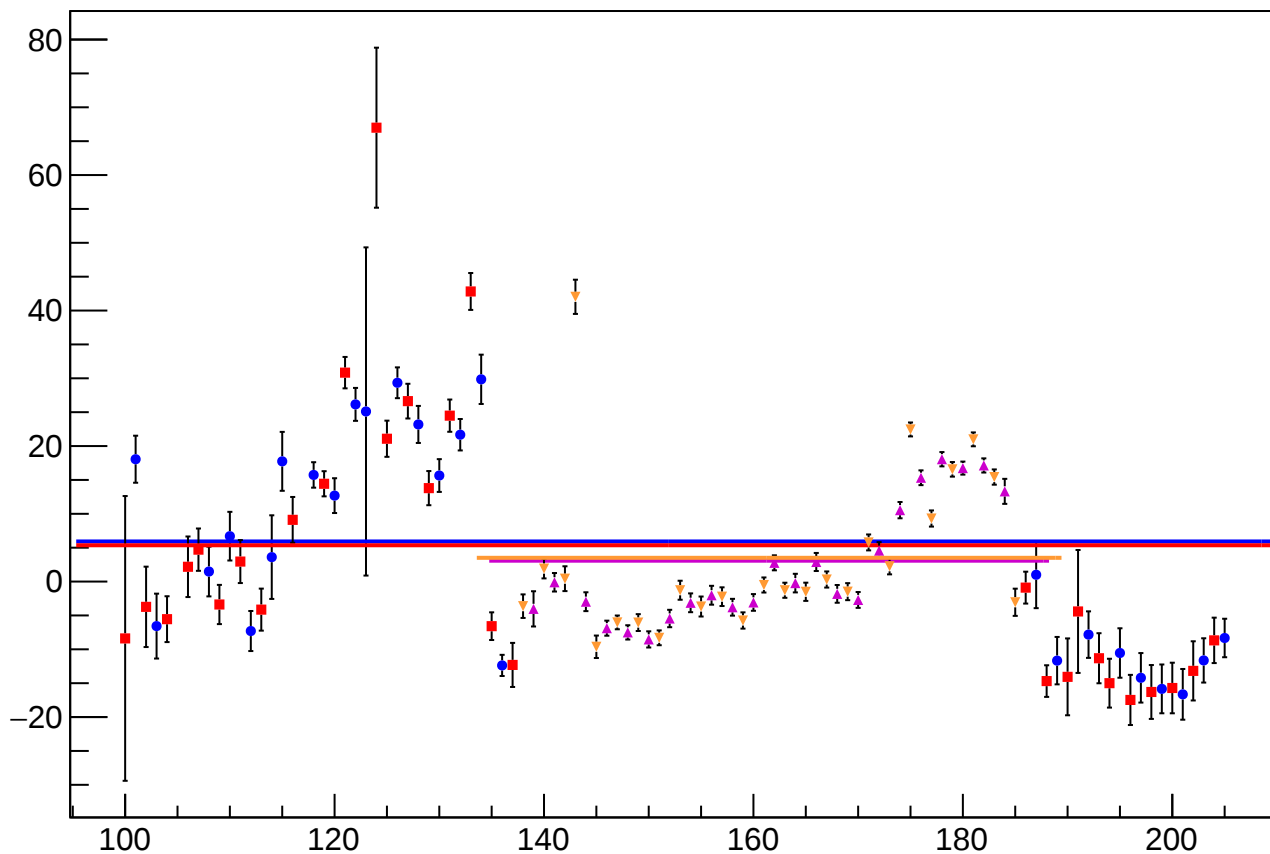
Right: 59.972+/-0.376 χ^2/NDF : 4613.0/55

In: 44.783+/-0.256 χ^2/NDF :3319.9/48

Out: 47.156+/-0.244 χ^2/NDF :5662.5/54

All: 46.026+/-0.177 χ^2/NDF : 9027.5/103

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.920 ± 0.580 χ^2/NDF : 761.0/25

Left Out: 3.505 ± 0.252 χ^2/NDF : 1691.3/24

Right Out: 5.357 ± 0.562 χ^2/NDF : 919.5/29

Left In: 3.081 ± 0.257 χ^2/NDF : 1265.7/22

Left: 3.297 ± 0.180 χ^2/NDF : 2958.4/47

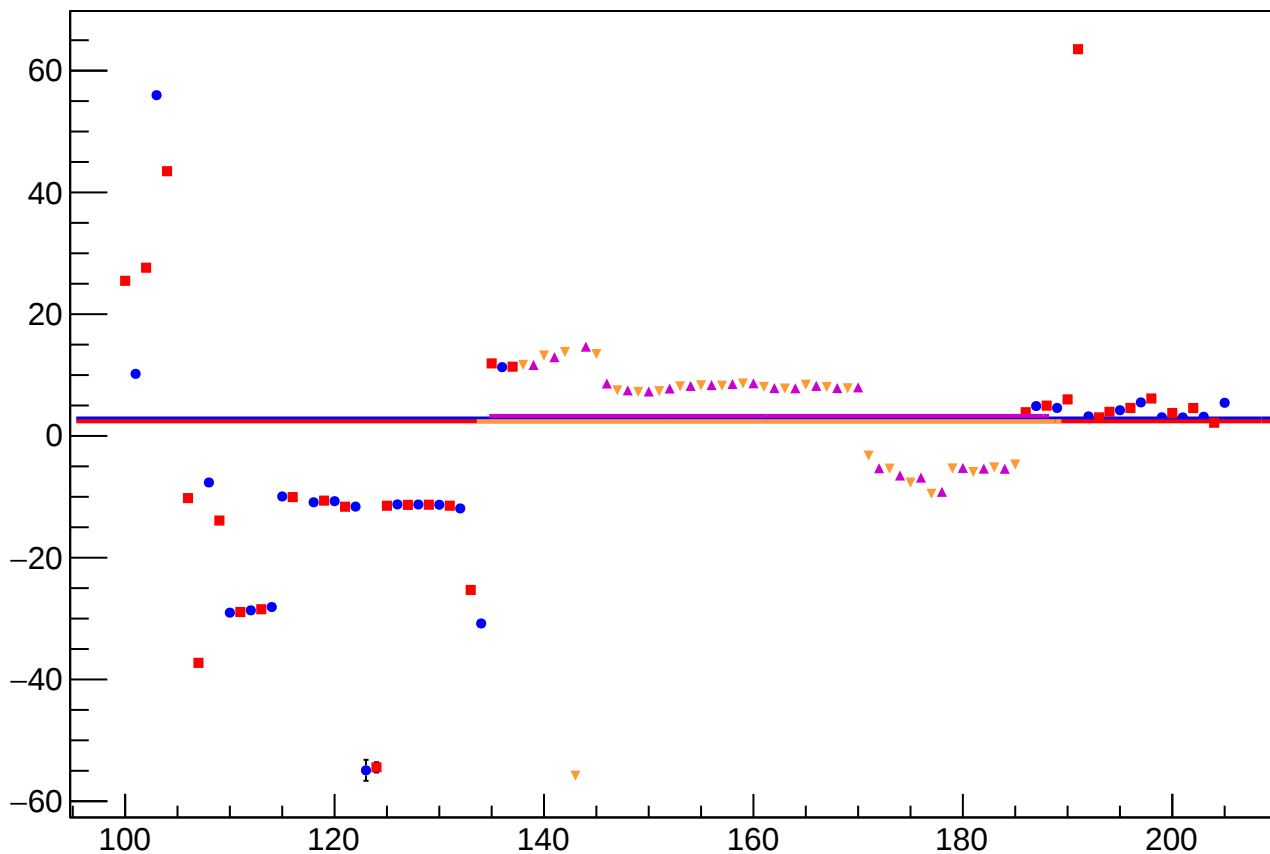
Right: 5.629 ± 0.404 χ^2/NDF : 1681.0/55

In: 3.547 ± 0.235 χ^2/NDF : 2046.7/48

Out: 3.816 ± 0.230 χ^2/NDF : 2619.9/54

All: 3.684 ± 0.164 χ^2/NDF : 4667.3/103

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 2.864 $\pm$ 0.028 χ^2 /NDF: 359618.6/25

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.399 $\pm$ 0.027 χ^2 /NDF: 431245.4/29

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

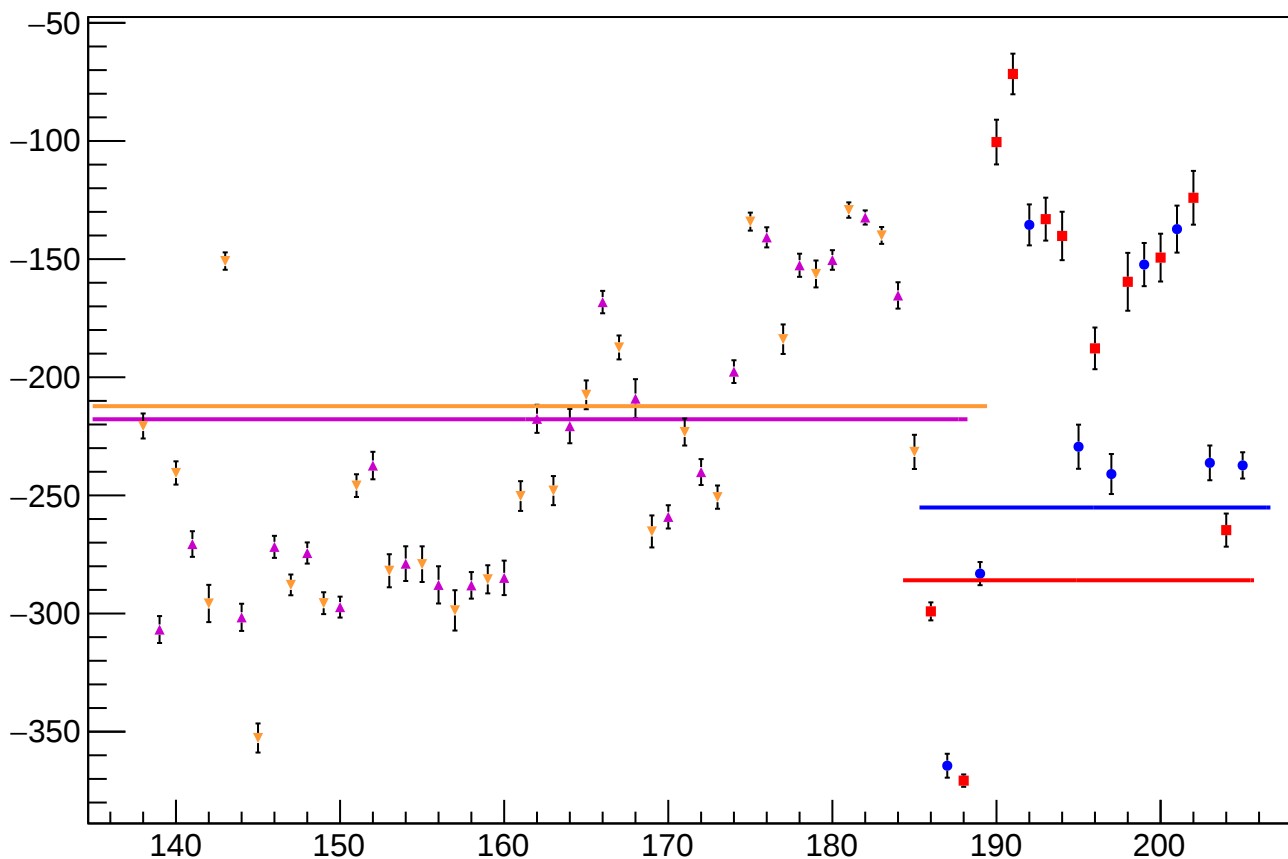
Right: 2.625 $\pm$ 0.019 χ^2 /NDF: 791011.2/55

In: 3.227 $\pm$ 0.011 χ^2 /NDF: 764147.6/48

Out: 2.421 $\pm$ 0.011 χ^2 /NDF: 1047628.6/54

All: 2.820 $\pm$ 0.008 χ^2 /NDF: 1814630.2/103

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -255.124 ± 2.280 χ^2/NDF : 983.3/8

Left Out: -212.231 ± 1.029 χ^2/NDF : 3875.4/24

Right Out: -285.928 ± 1.770 χ^2/NDF : 3181.0/10

Left In: -217.779 ± 1.067 χ^2/NDF : 3448.9/22

Left: -214.906 ± 0.741 χ^2/NDF : 7338.3/47

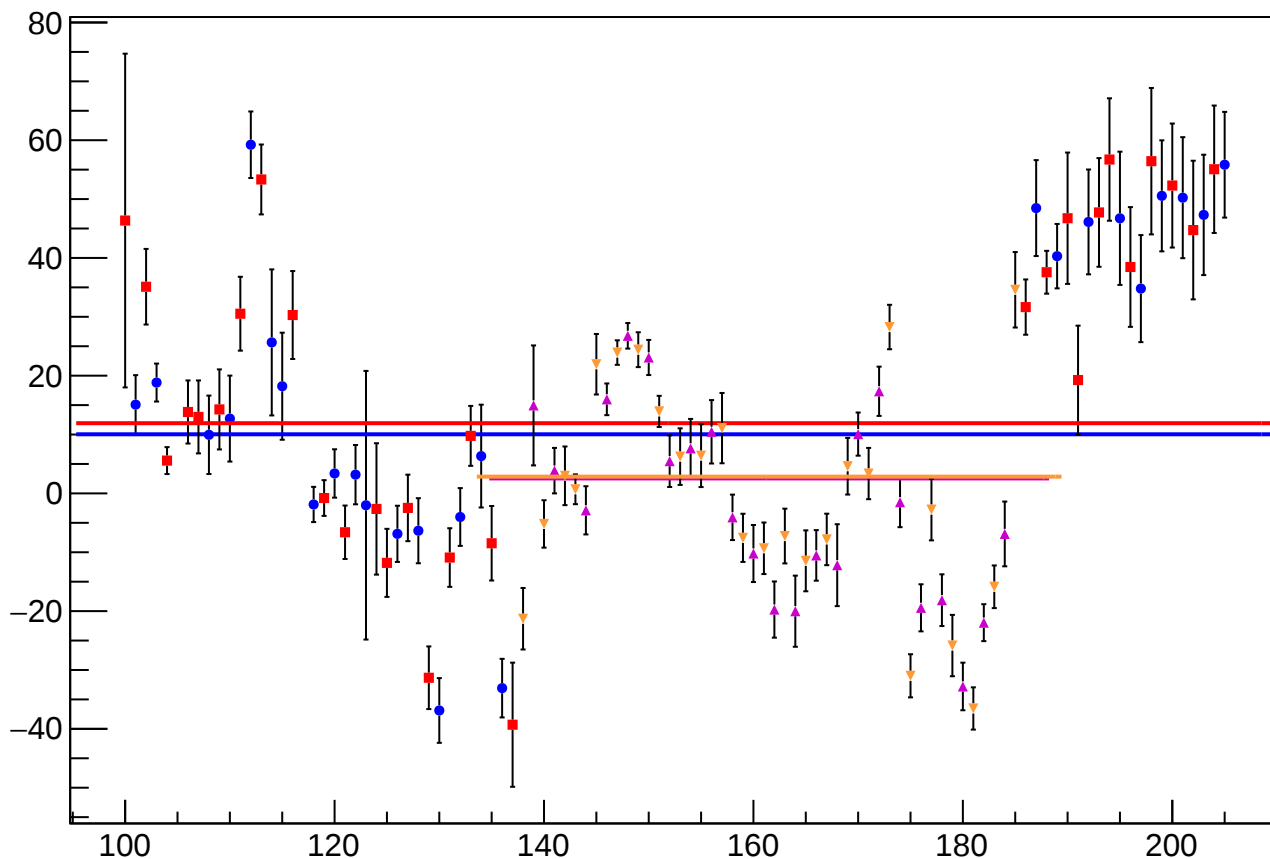
Right: -274.345 ± 1.398 χ^2/NDF : 4278.1/19

In: -224.485 ± 0.966 χ^2/NDF : 4652.3/31

Out: -230.856 ± 0.890 χ^2/NDF : 8351.6/35

All: -227.933 ± 0.655 χ^2/NDF : 13027.4/67

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.040 ± 1.141 $\chi^2/\text{NDF}: 445.2/25$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 11.927 ± 1.027 $\chi^2/\text{NDF}: 435.7/29$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

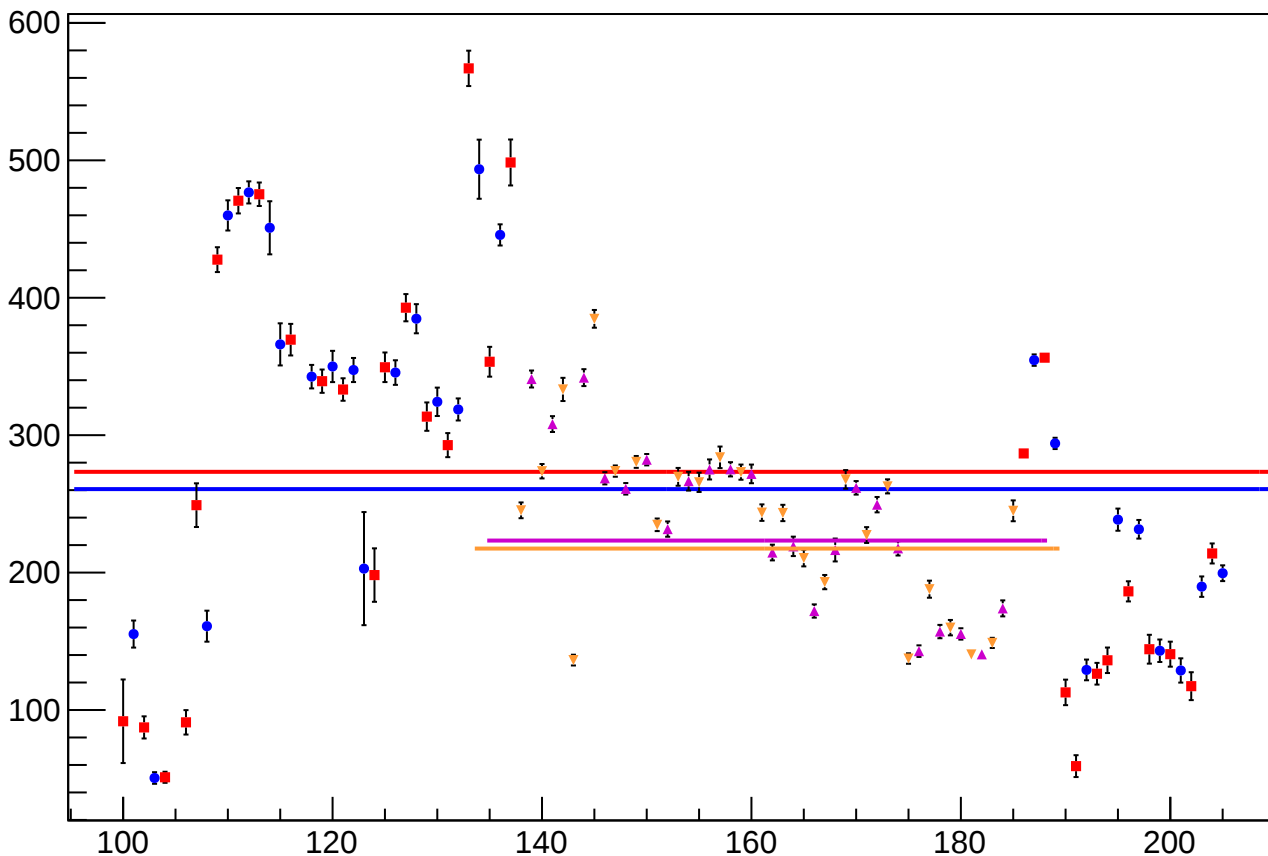
Right: 11.083 ± 0.763 $\chi^2/\text{NDF}: 882.4/55$

In: 5.104 ± 0.667 $\chi^2/\text{NDF}: 947.2/48$

Out: 6.140 ± 0.618 $\chi^2/\text{NDF}: 1067.6/54$

All: 5.661 ± 0.454 $\chi^2/\text{NDF}: 2016.1/103$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 260.748 $\pm$ 1.486 χ^2 /NDF: 6663.0/25

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF:3769.5/24

Right Out: 273.323 $\pm$ 1.205 χ^2 /NDF: 10483.4/29

Left In: 223.309 $\pm$ 1.062 χ^2 /NDF:3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2 /NDF: 7163.0/47

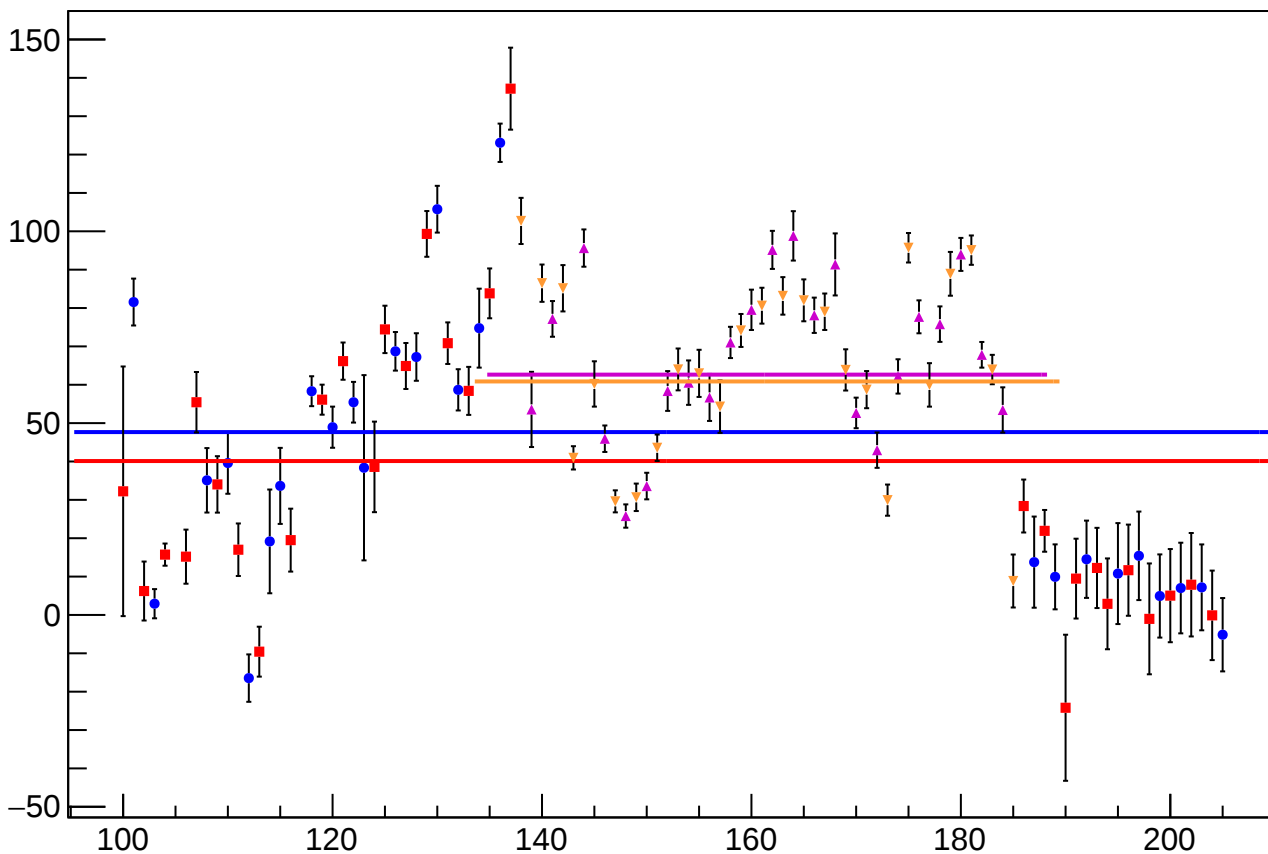
Right: 268.334 $\pm$ 0.936 χ^2 /NDF: 17189.7/55

In: 235.969 $\pm$ 0.864 χ^2 /NDF:10461.4/48

Out: 241.123 $\pm$ 0.784 χ^2 /NDF:15491.5/54

All: 238.796 $\pm$ 0.581 χ^2 /NDF: 25972.4/103

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.665 $\pm$ 1.336 χ^2 /NDF: 778.8/25

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 40.115 $\pm$ 1.235 χ^2 /NDF: 635.2/29

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

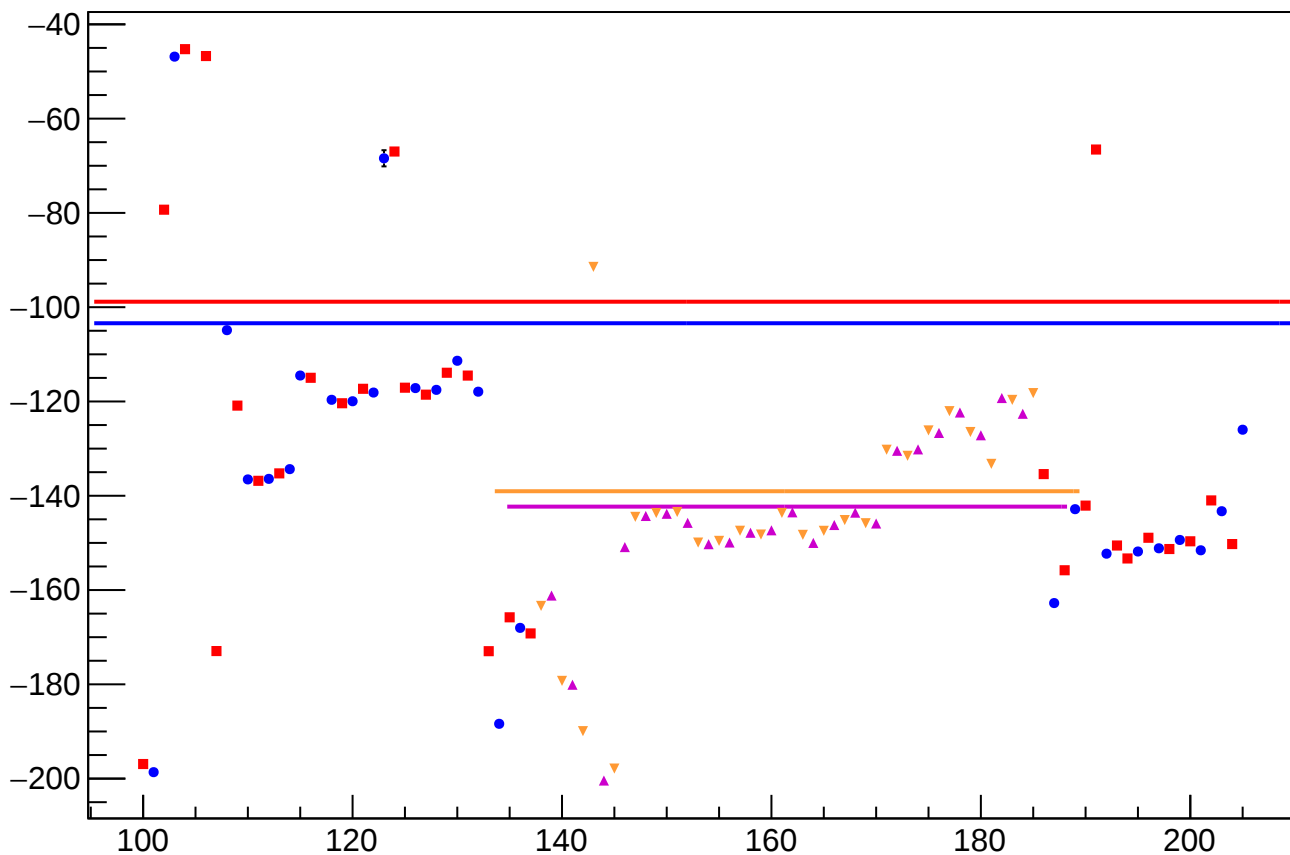
Right: 43.594 $\pm$ 0.907 χ^2 /NDF: 1431.2/55

In: 57.661 $\pm$ 0.770 χ^2 /NDF: 1378.1/48

Out: 53.699 $\pm$ 0.726 χ^2 /NDF: 1551.8/54

All: 55.562 $\pm$ 0.528 χ^2 /NDF: 2943.9/103

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -103.405+/-0.060 χ^2/NDF : 692595.2/25

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -98.838+/-0.056 χ^2/NDF : 726785.6/29

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

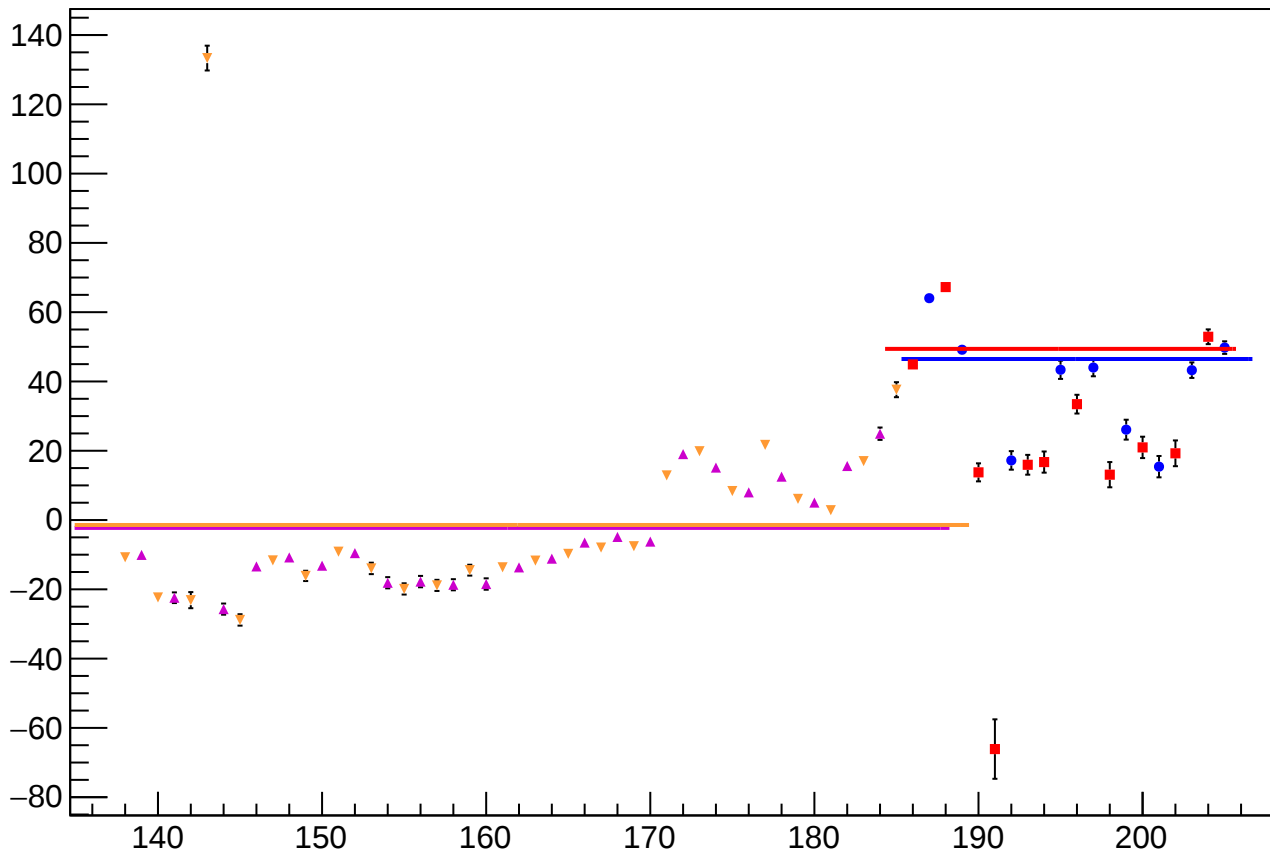
Right: -100.975+/-0.041 χ^2/NDF : 1422478.3/55

In: -128.626+/-0.035 χ^2/NDF : 1109828.2/48

Out: -124.231+/-0.034 χ^2/NDF : 1308858.9/54

All: -126.339+/-0.025 χ^2/NDF : 2426670.0/100

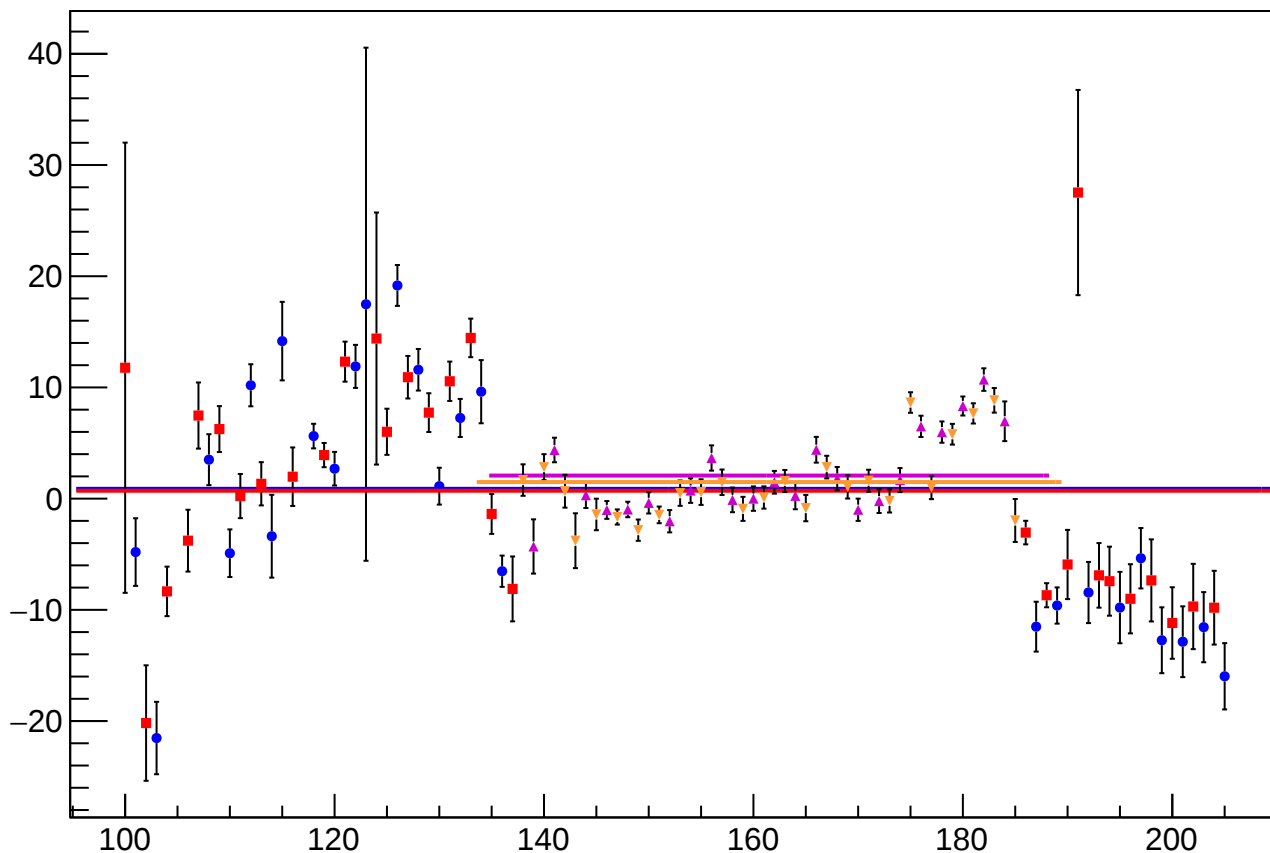
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 46.485 ± 0.681 $\chi^2/\text{NDF}: 441.7/8$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 49.408 ± 0.500 $\chi^2/\text{NDF}: 1465.1/10$
 Left In: -2.270 ± 0.271 $\chi^2/\text{NDF}: 2521.6/22$

Left: -1.844 ± 0.190 $\chi^2/\text{NDF}: 6865.5/47$
 Right: 48.384 ± 0.403 $\chi^2/\text{NDF}: 1918.8/19$
 In: 4.388 ± 0.252 $\chi^2/\text{NDF}: 7392.2/31$
 Out: 9.904 ± 0.236 $\chi^2/\text{NDF}: 13846.2/35$
 All: 7.323 ± 0.172 $\chi^2/\text{NDF}: 21494.2/67$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.882 ± 0.413 χ^2/NDF : 522.2/25

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: 0.713 ± 0.379 χ^2/NDF : 415.9/29

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

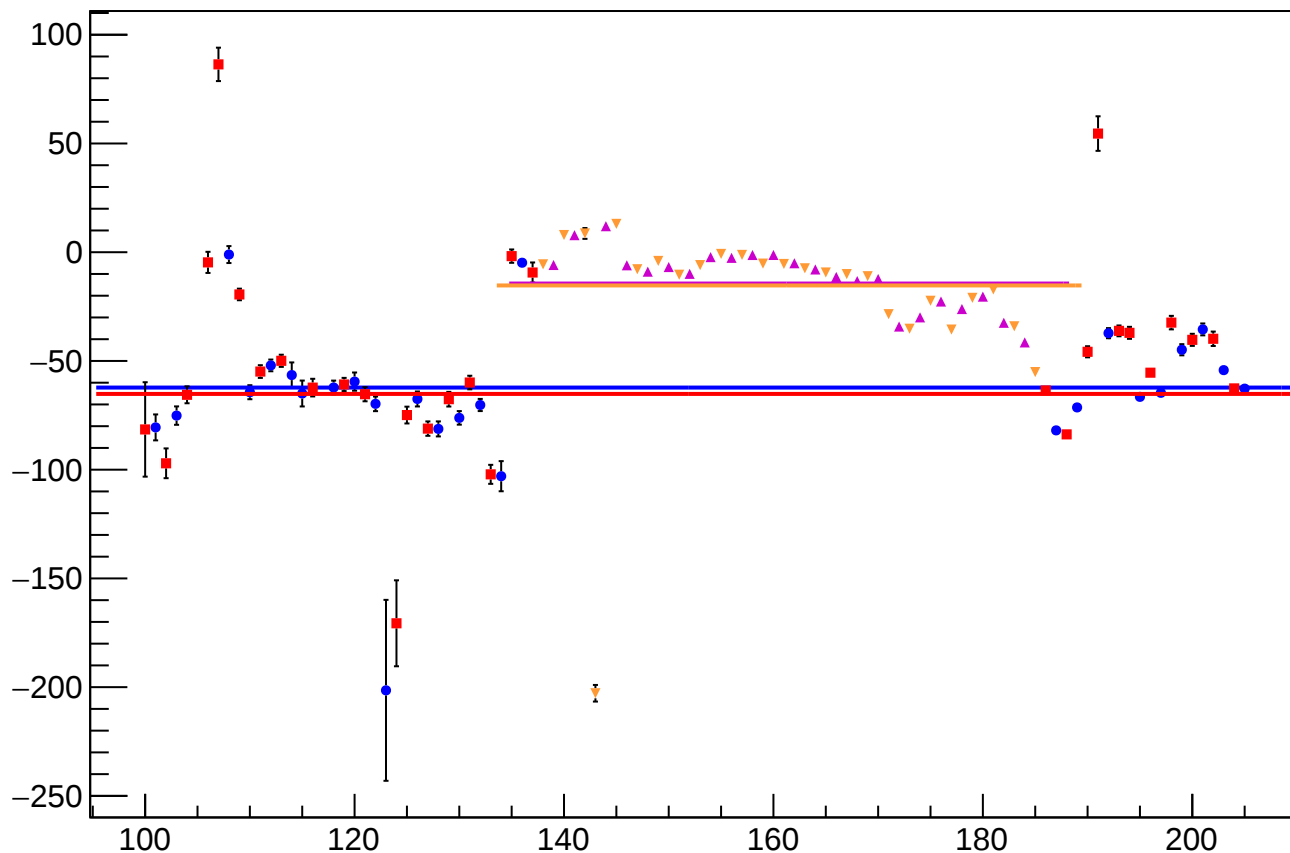
Right: 0.790 ± 0.279 χ^2/NDF : 938.2/55

In: 1.820 ± 0.191 χ^2/NDF : 803.3/48

Out: 1.308 ± 0.184 χ^2/NDF : 678.2/54

All: 1.554 ± 0.132 χ^2/NDF : 1485.2/103

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.236 ± 0.491 $\chi^2/\text{NDF}: 1723.4/25$

Left Out: -15.279 ± 0.267 $\chi^2/\text{NDF}: 4820.1/24$

Right Out: -65.161 ± 0.372 $\chi^2/\text{NDF}: 3302.6/29$

Left In: -14.406 ± 0.269 $\chi^2/\text{NDF}: 2032.4/22$

Left: -14.846 ± 0.189 $\chi^2/\text{NDF}: 6857.8/47$

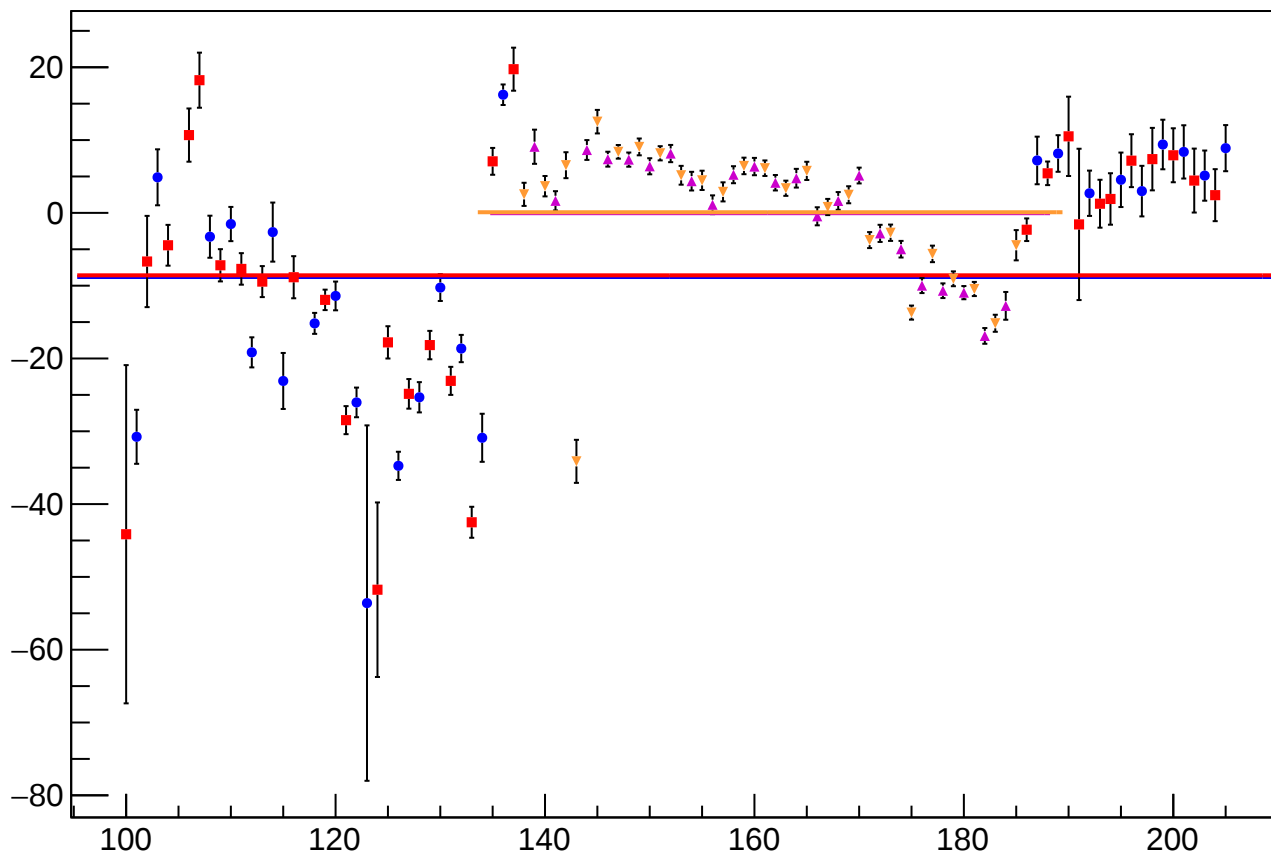
Right: -64.094 ± 0.297 $\chi^2/\text{NDF}: 5048.6/55$

In: -25.442 ± 0.236 $\chi^2/\text{NDF}: 11045.1/48$

Out: -32.197 ± 0.217 $\chi^2/\text{NDF}: 19979.1/54$

All: -29.105 ± 0.160 $\chi^2/\text{NDF}: 31468.3/103$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -8.807 ± 0.481 χ^2/NDF : 1035.0/25

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -8.577 ± 0.457 χ^2/NDF : 980.9/29

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

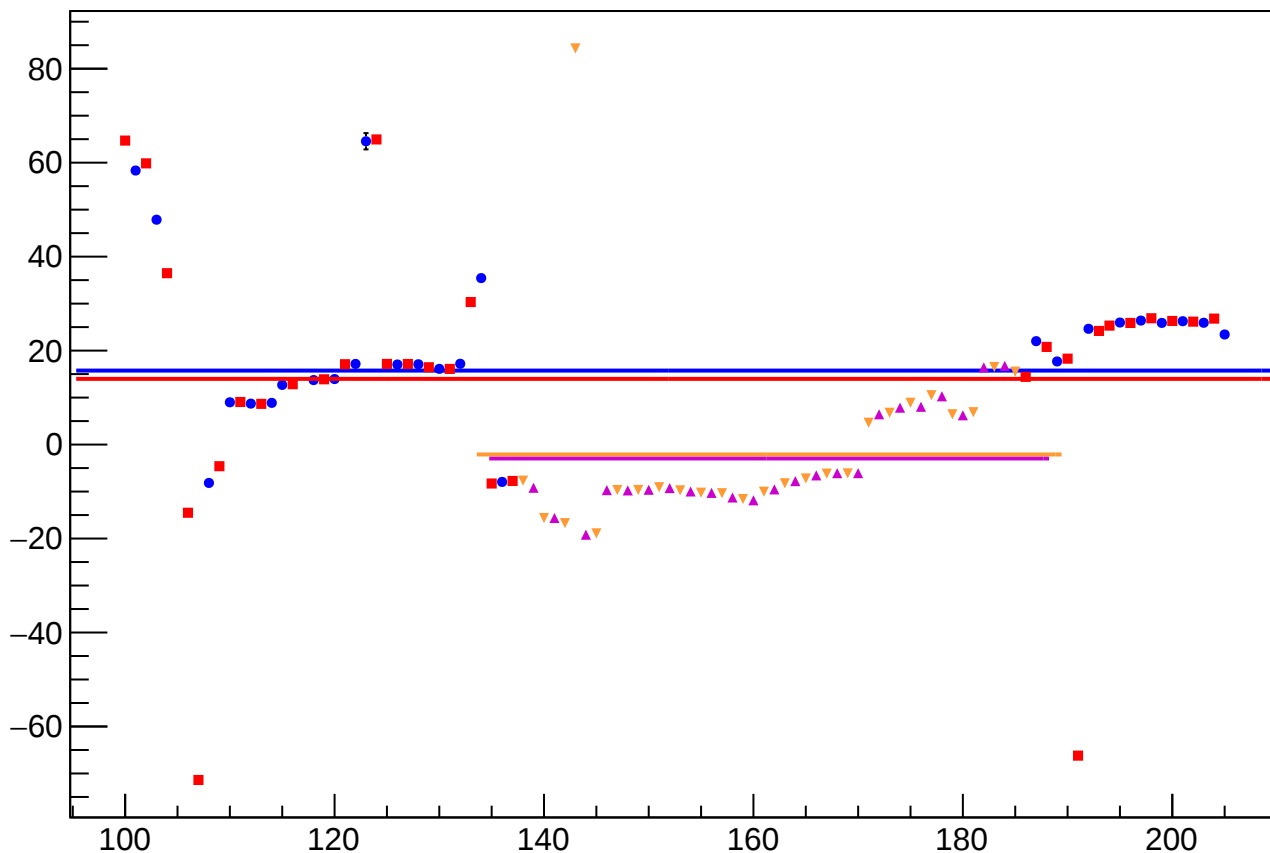
Right: -8.686 ± 0.331 χ^2/NDF : 2016.0/55

In: -1.824 ± 0.217 χ^2/NDF : 2327.2/48

Out: -1.766 ± 0.211 χ^2/NDF : 2436.0/54

All: -1.794 ± 0.151 χ^2/NDF : 4763.2/103

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 15.749+/-0.024 χ^2/NDF : 467414.4/25

Left Out: -2.105+/-0.011 χ^2/NDF :1093120.2/24

Right Out: 13.986+/-0.024 χ^2/NDF : 742792.5/29

Left In: -2.959+/-0.011 χ^2/NDF :763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

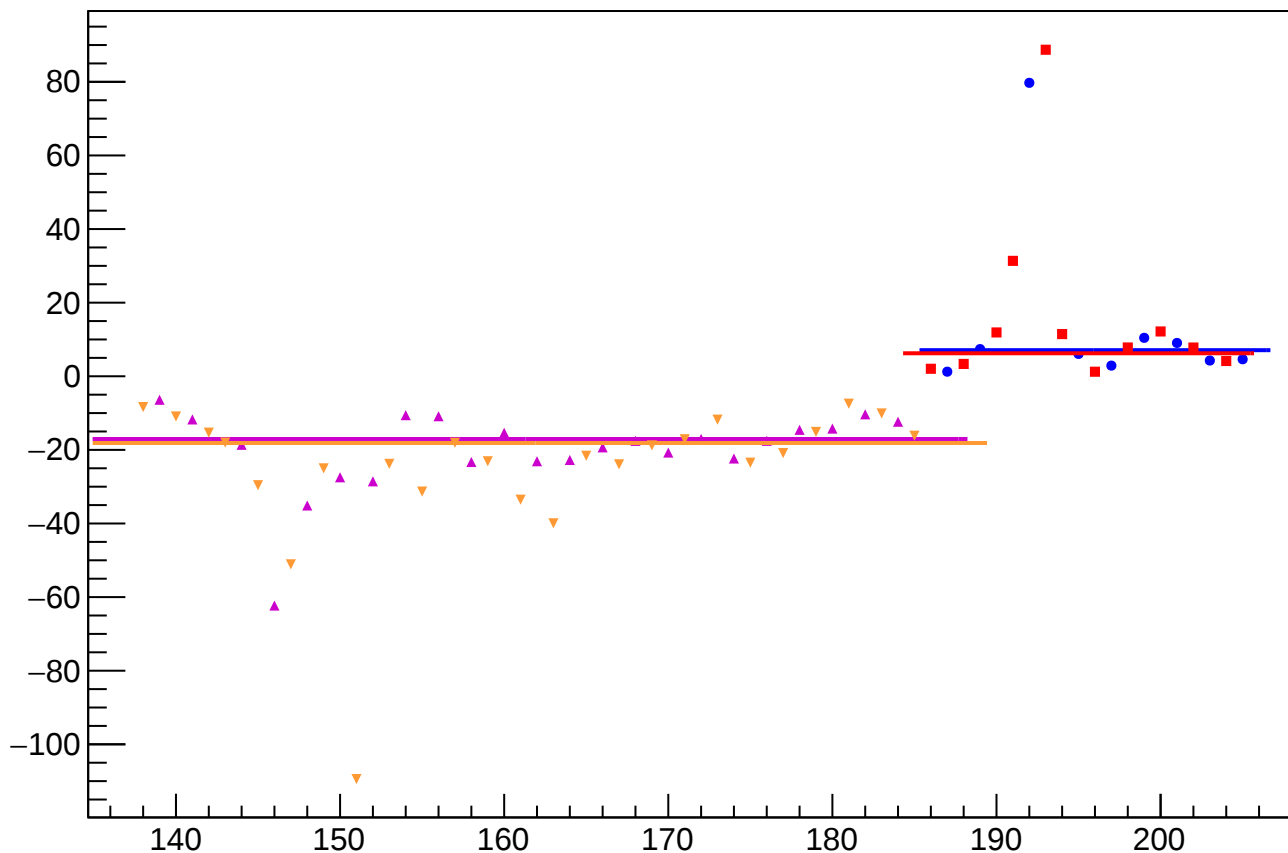
Right: 14.843+/-0.017 χ^2/NDF : 1212938.4/55

In: 0.250+/-0.010 χ^2/NDF :1726394.9/48

Out: 0.753+/-0.010 χ^2/NDF :2221434.9/54

All: 0.504+/-0.007 χ^2/NDF : 3949106.2/103

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.089 ± 0.069 $\chi^2/\text{NDF}: 25105.3/8$

Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$

Right Out: 6.249 ± 0.065 $\chi^2/\text{NDF}: 25747.3/10$

Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$

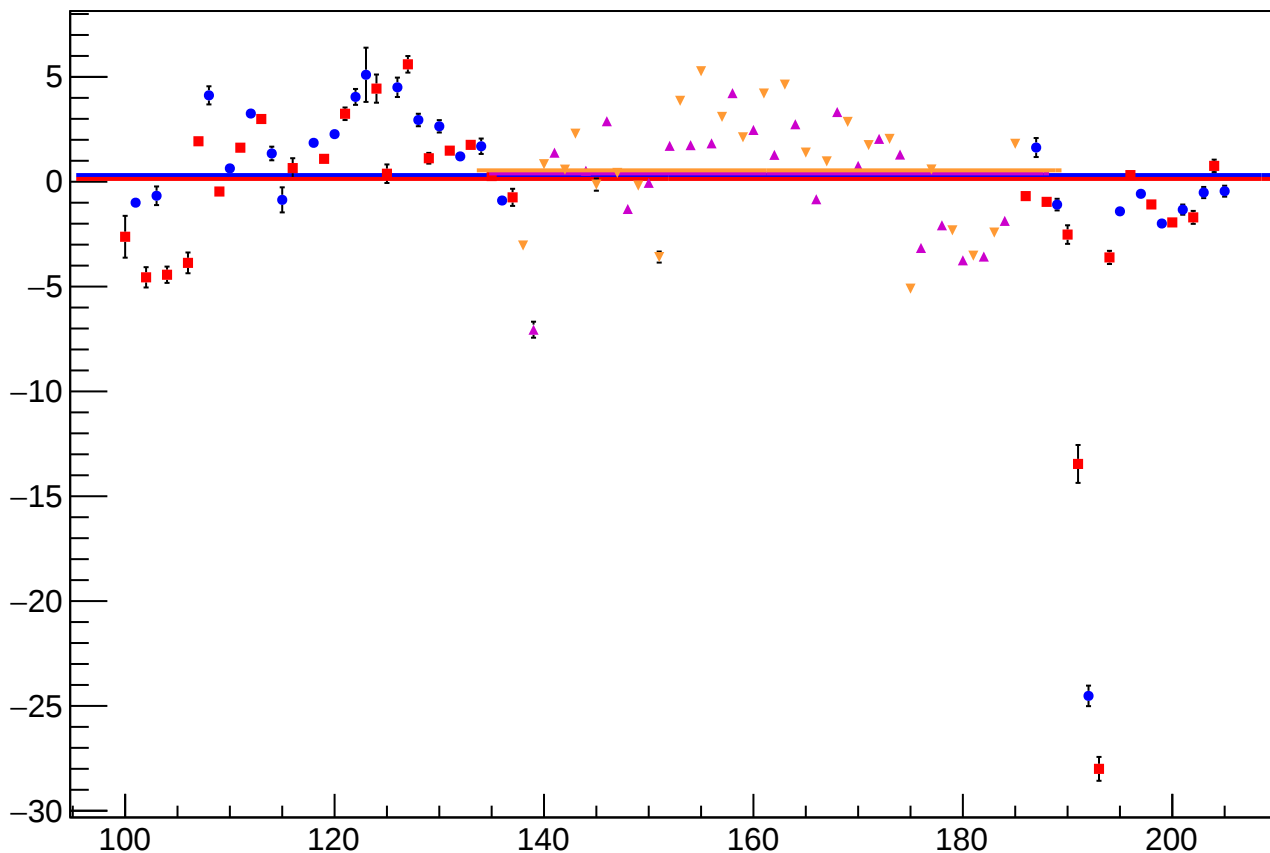
Right: 6.643 ± 0.047 $\chi^2/\text{NDF}: 50931.3/19$

In: -11.392 ± 0.033 $\chi^2/\text{NDF}: 162825.6/31$

Out: -11.669 ± 0.033 $\chi^2/\text{NDF}: 218272.8/35$

All: -11.531 ± 0.024 $\chi^2/\text{NDF}: 381132.8/67$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.318 $\pm$ 0.050 χ^2 /NDF: 3821.5/25

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF: 7085.3/24

Right Out: 0.134 $\pm$ 0.047 χ^2 /NDF: 4250.6/29

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

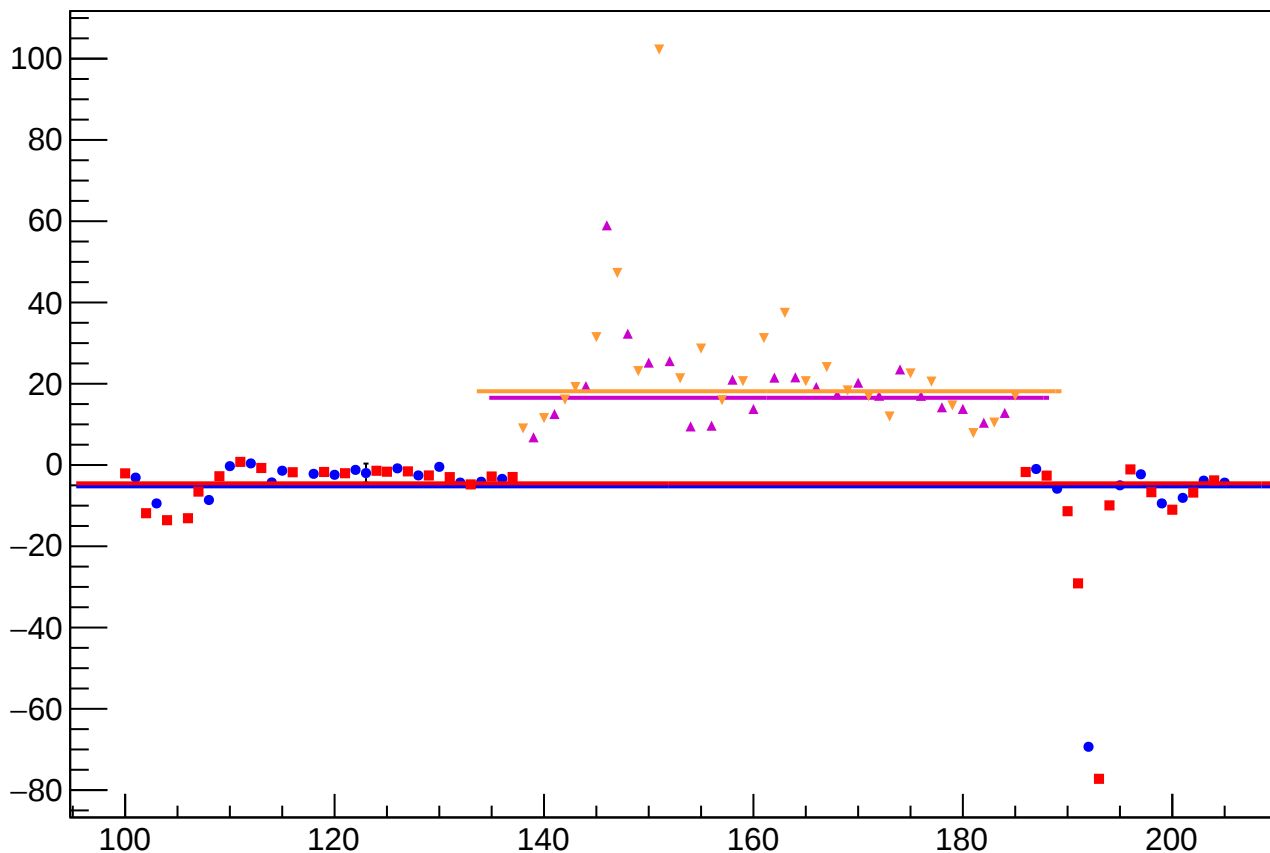
Right: 0.221 $\pm$ 0.034 χ^2 /NDF: 8079.3/55

In: 0.375 $\pm$ 0.026 χ^2 /NDF: 10058.9/48

Out: 0.411 $\pm$ 0.027 χ^2 /NDF: 11387.3/54

All: 0.393 $\pm$ 0.019 χ^2 /NDF: 21447.1/103

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.253+/-0.054 χ^2/NDF : 26654.4/25

Left Out: 18.150+/-0.039 χ^2/NDF : 77847.8/24

Right Out: -4.508+/-0.048 χ^2/NDF : 27651.1/29

Left In: 16.543+/-0.038 χ^2/NDF : 40855.0/22

Left: 17.318+/-0.027 χ^2/NDF : 119577.9/47

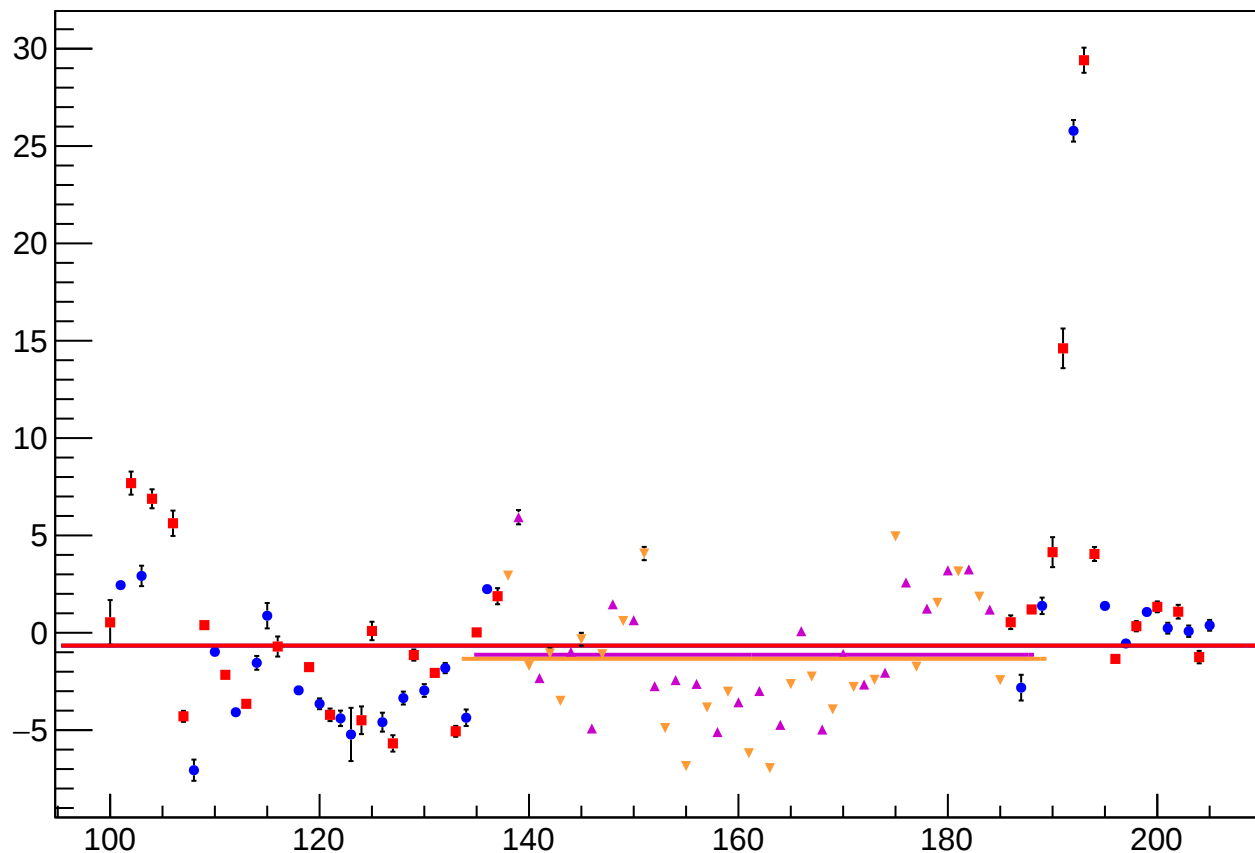
Right: -4.837+/-0.036 χ^2/NDF : 54411.1/55

In: 9.416+/-0.031 χ^2/NDF : 176460.2/48

Out: 9.167+/-0.030 χ^2/NDF : 238663.5/54

All: 9.289+/-0.022 χ^2/NDF : 415156.6/103

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.662 ± 0.058 χ^2/NDF : 3912.4/25

Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24

Right Out: -0.658 ± 0.055 χ^2/NDF : 4469.9/29

Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47

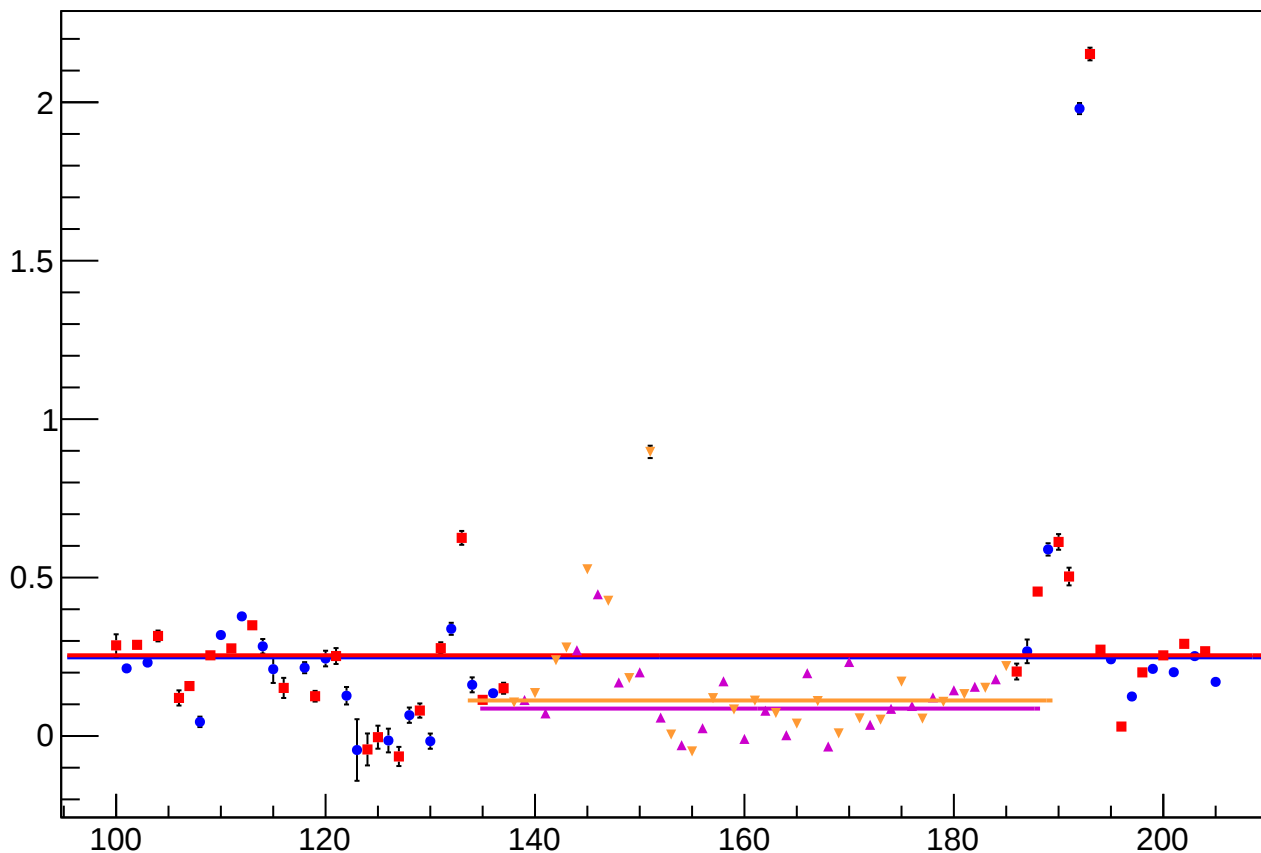
Right: -0.660 ± 0.040 χ^2/NDF : 8382.2/55

In: -1.009 ± 0.029 χ^2/NDF : 10700.9/48

Out: -1.134 ± 0.030 χ^2/NDF : 12520.2/54

All: -1.070 ± 0.021 χ^2/NDF : 23230.0/103

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.248 $\pm$ 0.003 χ^2/NDF : 11205.9/25

Left Out: 0.112 $\pm$ 0.002 χ^2/NDF : 4503.9/24

Right Out: 0.255 $\pm$ 0.002 χ^2/NDF : 11594.9/29

Left In: 0.087 $\pm$ 0.002 χ^2/NDF : 3655.4/22

Left: 0.098 $\pm$ 0.001 χ^2/NDF : 8295.3/47

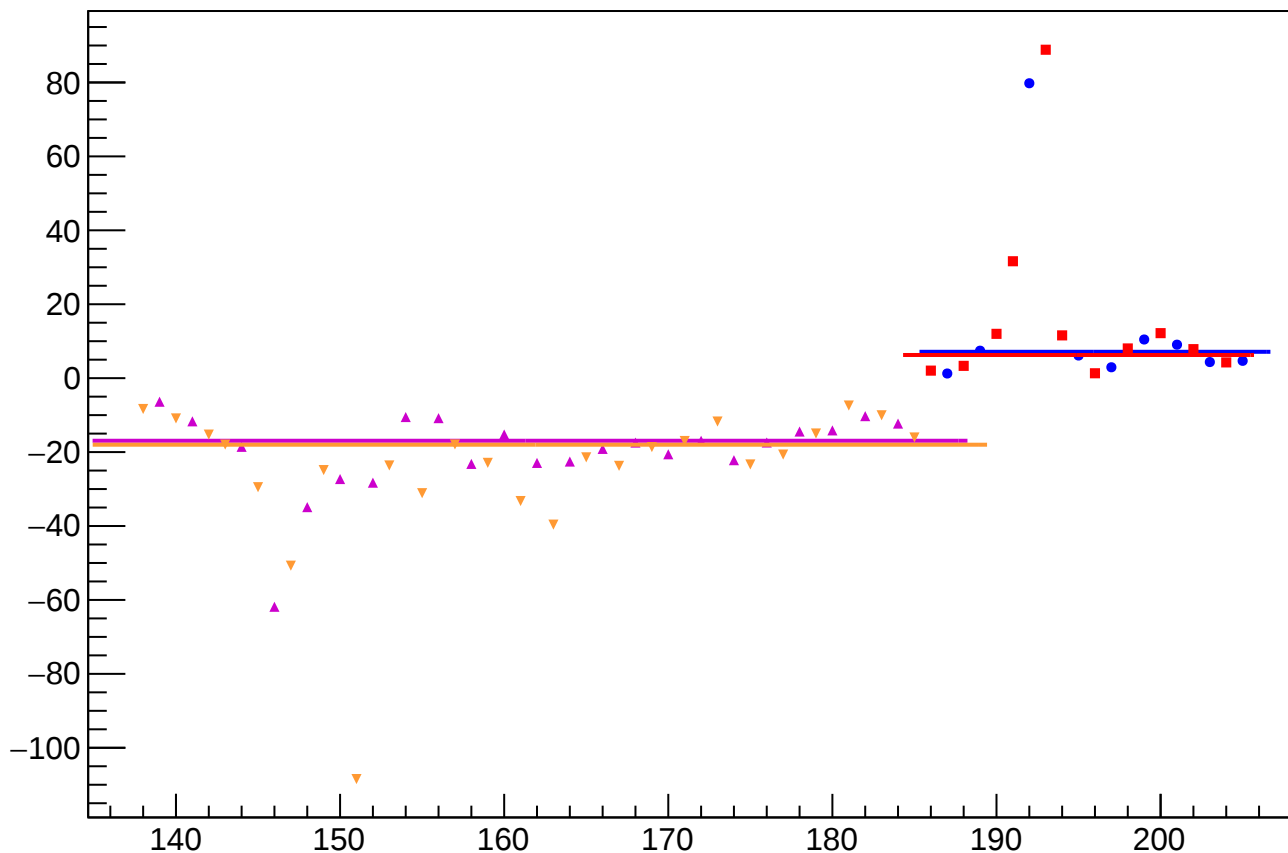
Right: 0.252 $\pm$ 0.002 χ^2/NDF : 22804.0/55

In: 0.127 $\pm$ 0.001 χ^2/NDF : 17797.9/48

Out: 0.154 $\pm$ 0.001 χ^2/NDF : 18405.1/54

All: 0.140 $\pm$ 0.001 χ^2/NDF : 36399.4/103

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.134+/-0.069 χ^2/NDF : 25283.7/8

Left Out: -18.005+/-0.039 χ^2/NDF : 88391.0/24

Right Out: 6.271+/-0.064 χ^2/NDF : 26093.0/10

Left In: -16.934+/-0.038 χ^2/NDF : 44060.6/22

Left: -17.459+/-0.027 χ^2/NDF : 132843.0/47

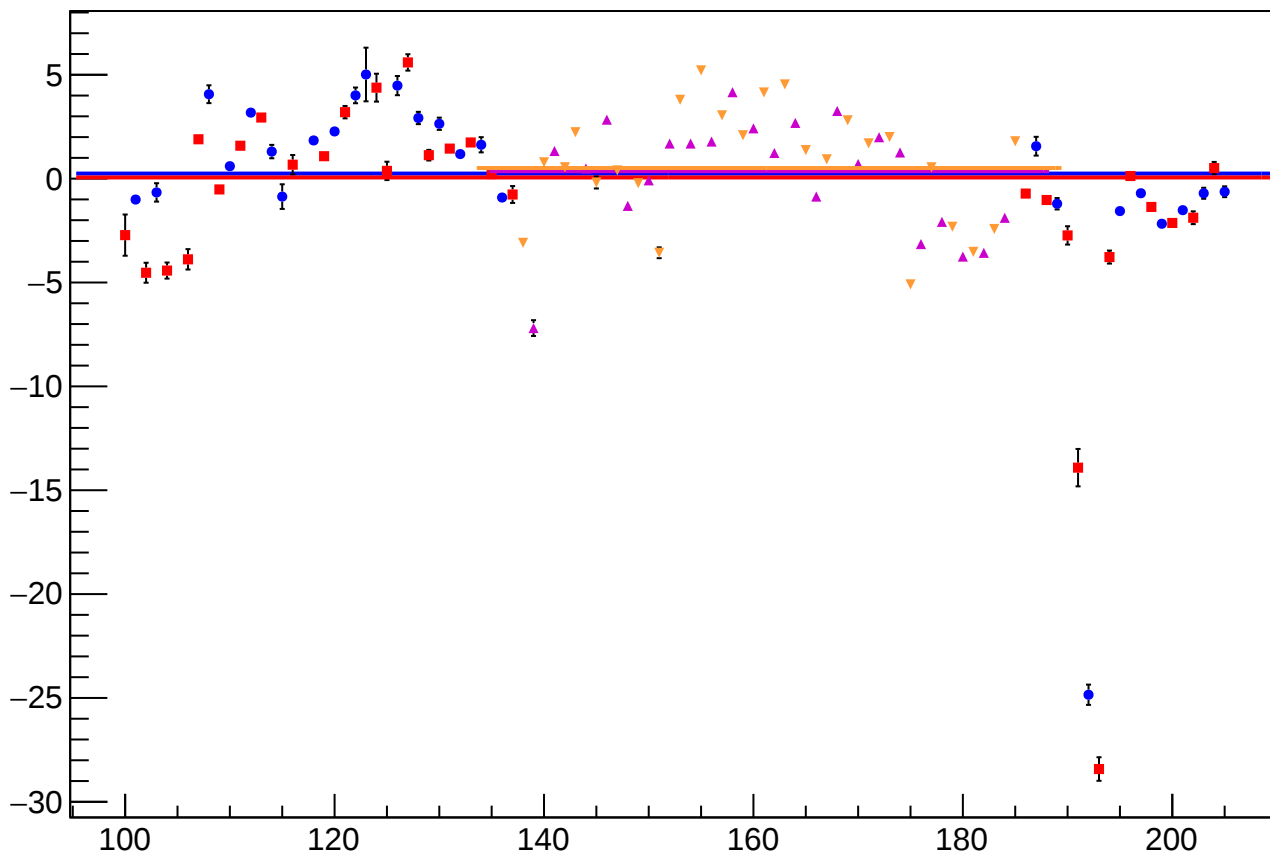
Right: 6.674+/-0.047 χ^2/NDF : 51460.8/19

In: -11.318+/-0.033 χ^2/NDF : 163431.0/31

Out: -11.564+/-0.033 χ^2/NDF : 219207.3/35

All: -11.441+/-0.023 χ^2/NDF : 382665.7/67

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.244+/-0.050 χ^2/NDF : 3957.6/25

Left Out: 0.511+/-0.032 χ^2/NDF : 7070.4/24

Right Out: 0.056+/-0.047 χ^2/NDF : 4414.2/29

Left In: 0.360+/-0.031 χ^2/NDF : 6221.1/22

Left: 0.432+/-0.022 χ^2/NDF : 13303.2/47

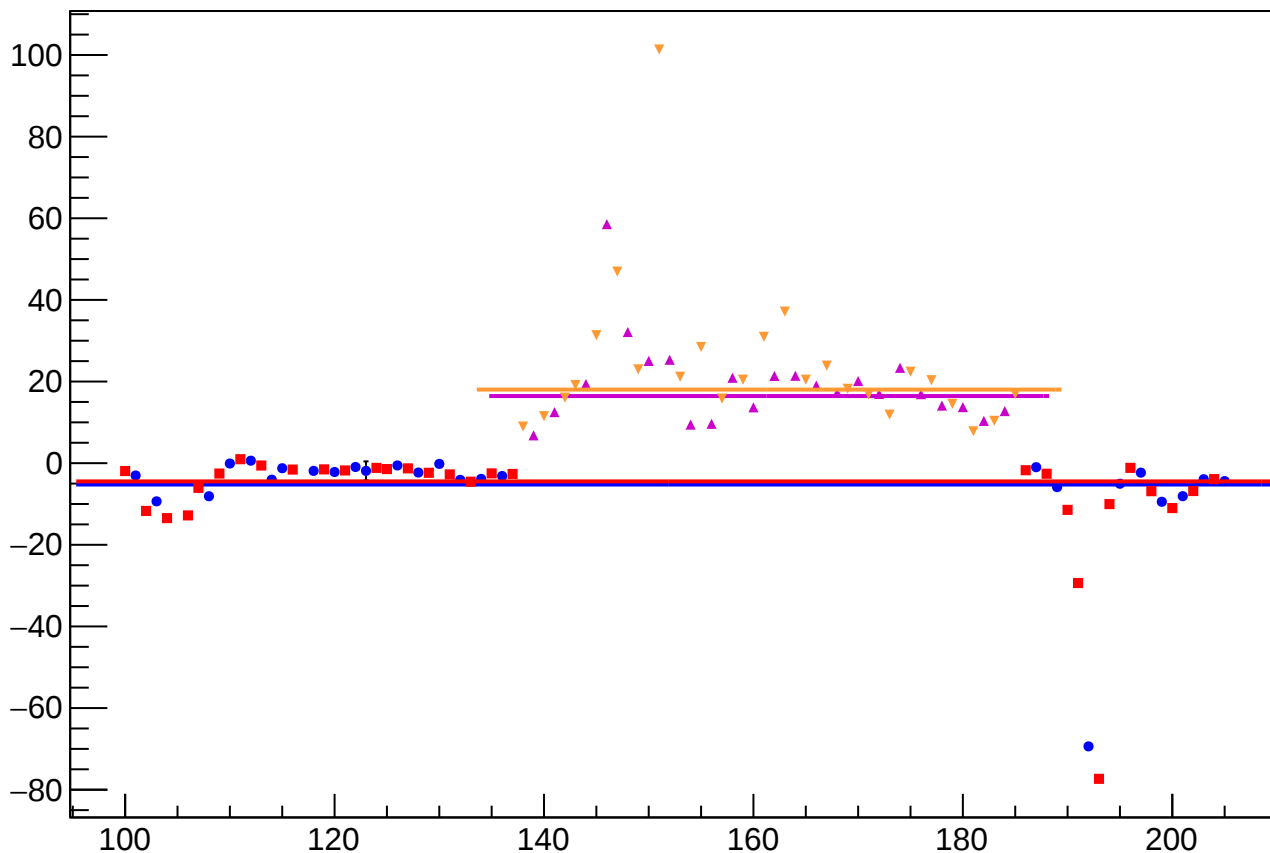
Right: 0.145+/-0.034 χ^2/NDF : 8379.3/55

In: 0.328+/-0.026 χ^2/NDF : 10182.6/48

Out: 0.365+/-0.026 χ^2/NDF : 11549.0/54

All: 0.346+/-0.019 χ^2/NDF : 21732.6/103

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.228+/-0.054 χ^2/NDF : 26971.5/25

Left Out: 18.027+/-0.039 χ^2/NDF : 77718.1/24

Right Out: -4.466+/-0.048 χ^2/NDF : 28117.6/29

Left In: 16.443+/-0.038 χ^2/NDF : 40780.6/22

Left: 17.207+/-0.027 χ^2/NDF : 119360.0/47

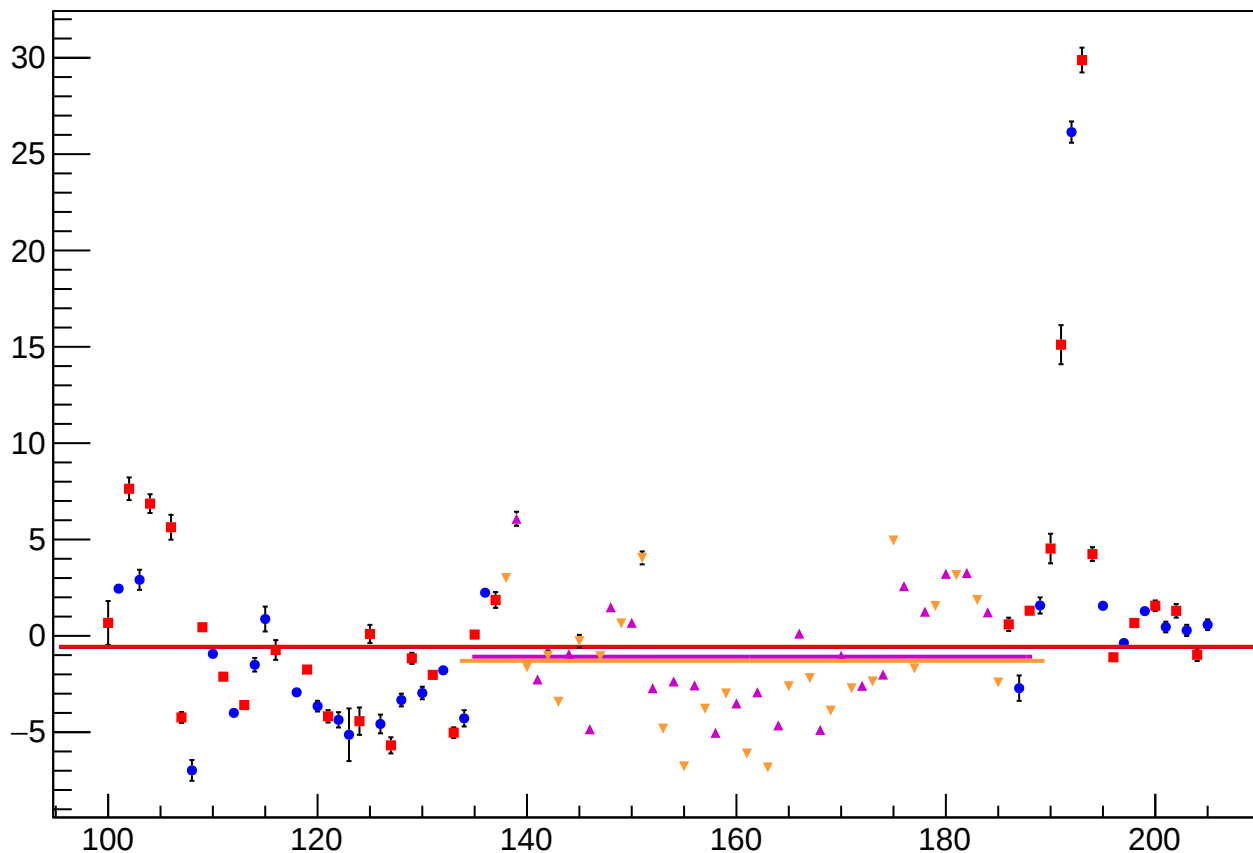
Right: -4.802+/-0.036 χ^2/NDF : 55200.7/55

In: 9.375+/-0.031 χ^2/NDF : 176619.8/48

Out: 9.103+/-0.030 χ^2/NDF : 239030.7/54

All: 9.236+/-0.022 χ^2/NDF : 415690.3/103

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.576 ± 0.058 $\chi^2/\text{NDF}: 4024.3/25$

Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$

Right Out: -0.568 ± 0.055 $\chi^2/\text{NDF}: 4622.4/29$

Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$

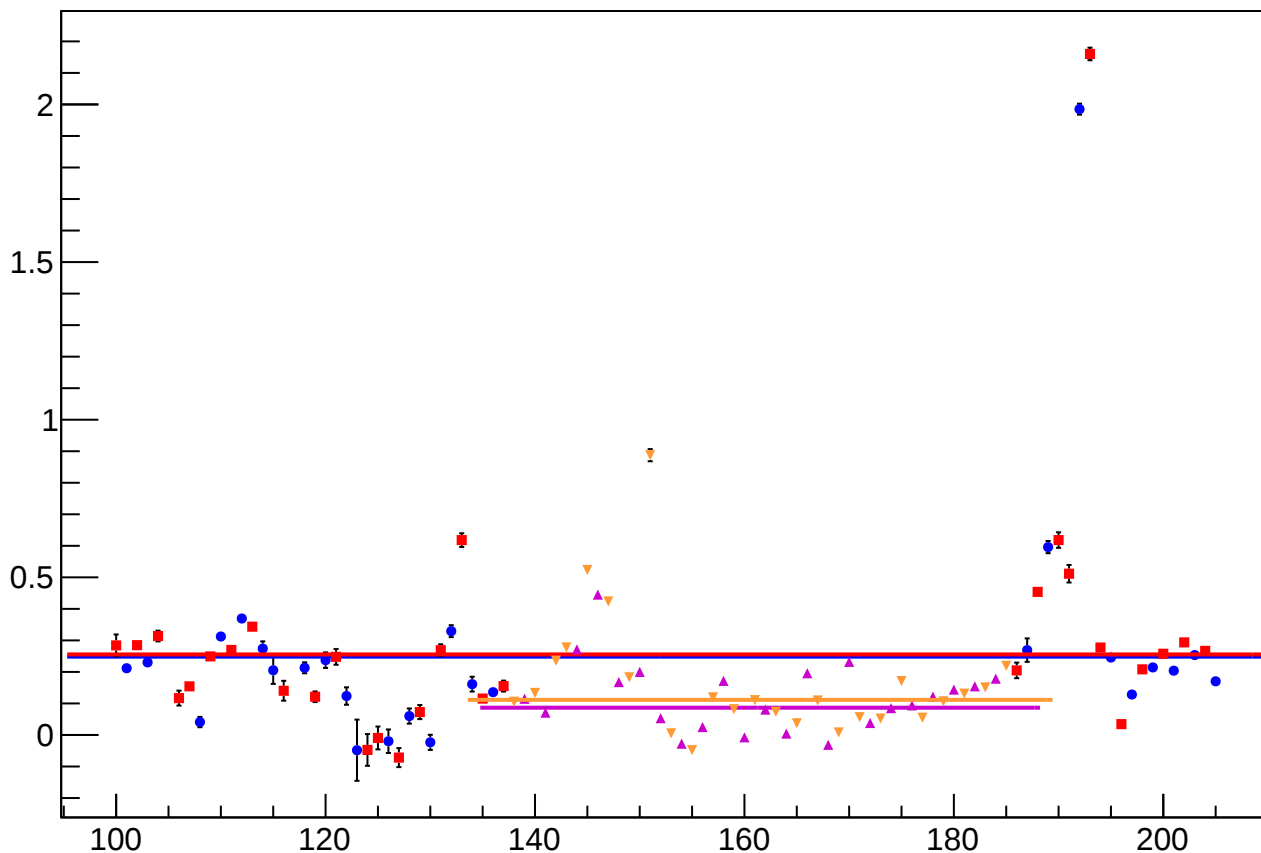
Right: -0.572 ± 0.040 $\chi^2/\text{NDF}: 8646.7/55$

In: -0.952 ± 0.029 $\chi^2/\text{NDF}: 10805.5/48$

Out: -1.079 ± 0.030 $\chi^2/\text{NDF}: 12672.7/54$

All: -1.014 ± 0.021 $\chi^2/\text{NDF}: 23487.5/103$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.249 $\pm$ 0.003 χ^2 /NDF: 11334.2/25

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.255 $\pm$ 0.002 χ^2 /NDF: 11731.4/29

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

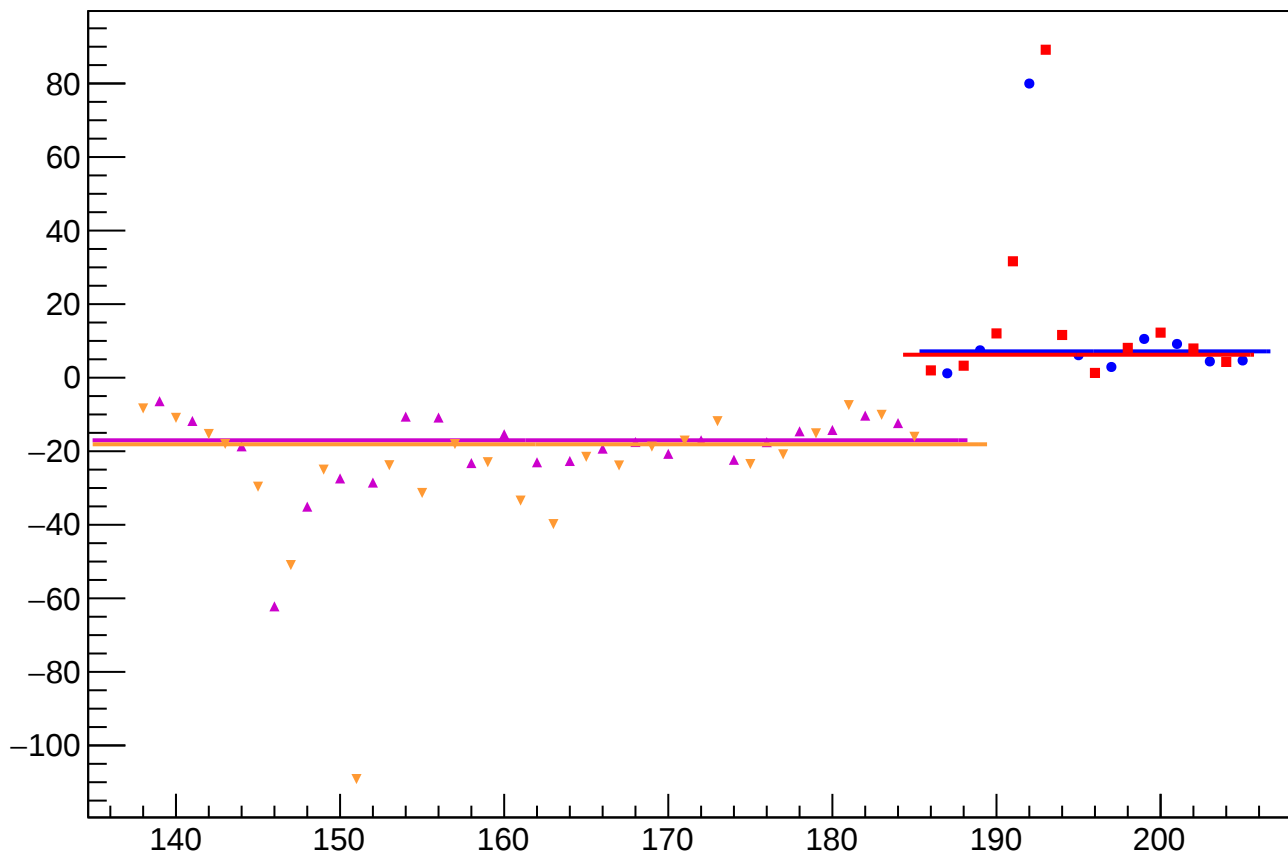
Right: 0.252 $\pm$ 0.002 χ^2 /NDF: 23069.3/55

In: 0.127 $\pm$ 0.001 χ^2 /NDF:17939.8/48

Out: 0.153 $\pm$ 0.001 χ^2 /NDF:18607.9/54

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 36740.8/103

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



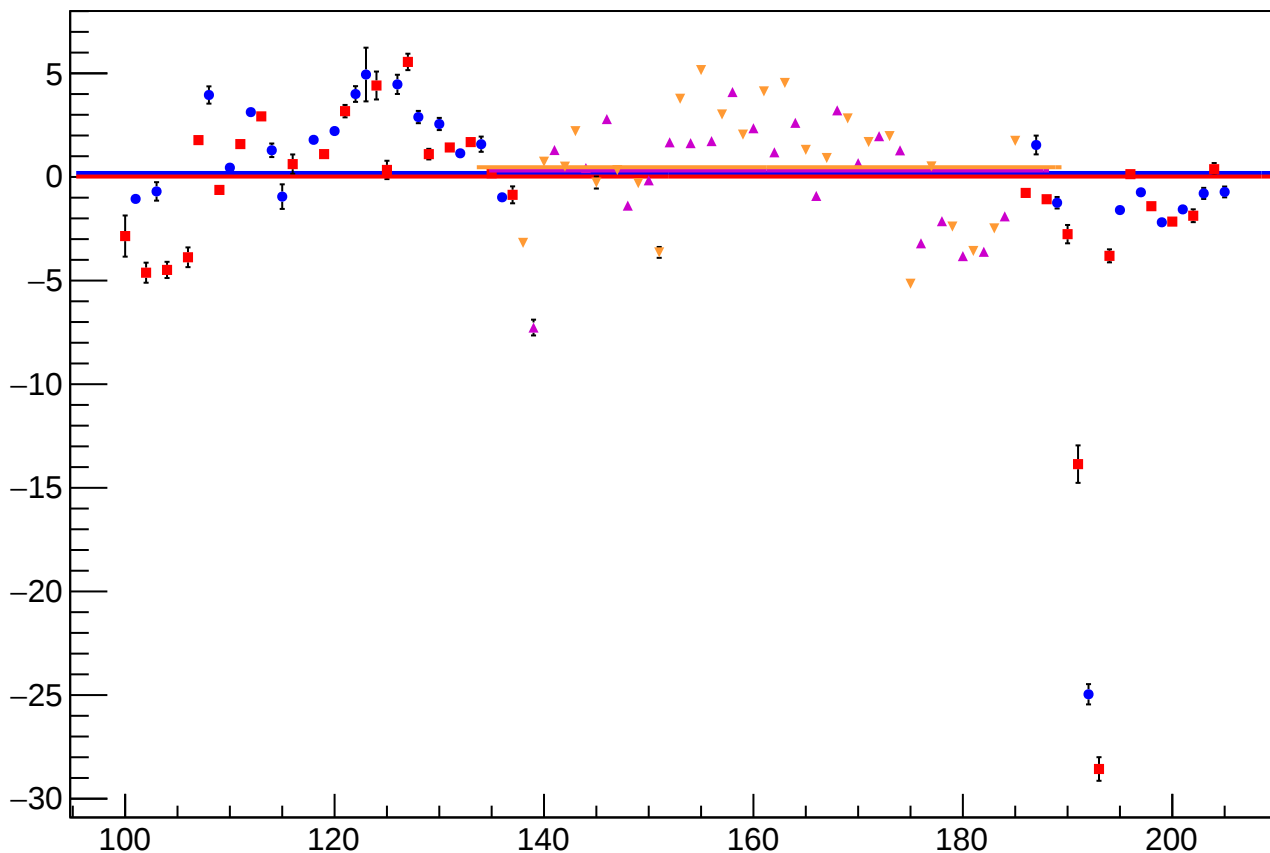
Right In: 7.159 ± 0.069 $\chi^2/\text{NDF}: 25273.5/8$
 Left Out: -18.112 ± 0.039 $\chi^2/\text{NDF}: 88529.7/24$
 Right Out: 6.244 ± 0.064 $\chi^2/\text{NDF}: 26129.2/10$
 Left In: -17.024 ± 0.038 $\chi^2/\text{NDF}: 44141.8/22$

Left: -17.557 ± 0.027 $\chi^2/\text{NDF}: 133072.9/47$
 Right: 6.669 ± 0.047 $\chi^2/\text{NDF}: 51496.4/19$

In: -11.406 ± 0.033 $\chi^2/\text{NDF}: 163253.7/31$
 Out: -11.634 ± 0.033 $\chi^2/\text{NDF}: 219432.2/35$

All: -11.520 ± 0.024 $\chi^2/\text{NDF}: 382709.5/67$

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.192 $\pm$ 0.050 χ^2 /NDF: 3943.8/25

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.019 $\pm$ 0.047 χ^2 /NDF: 4406.9/29

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

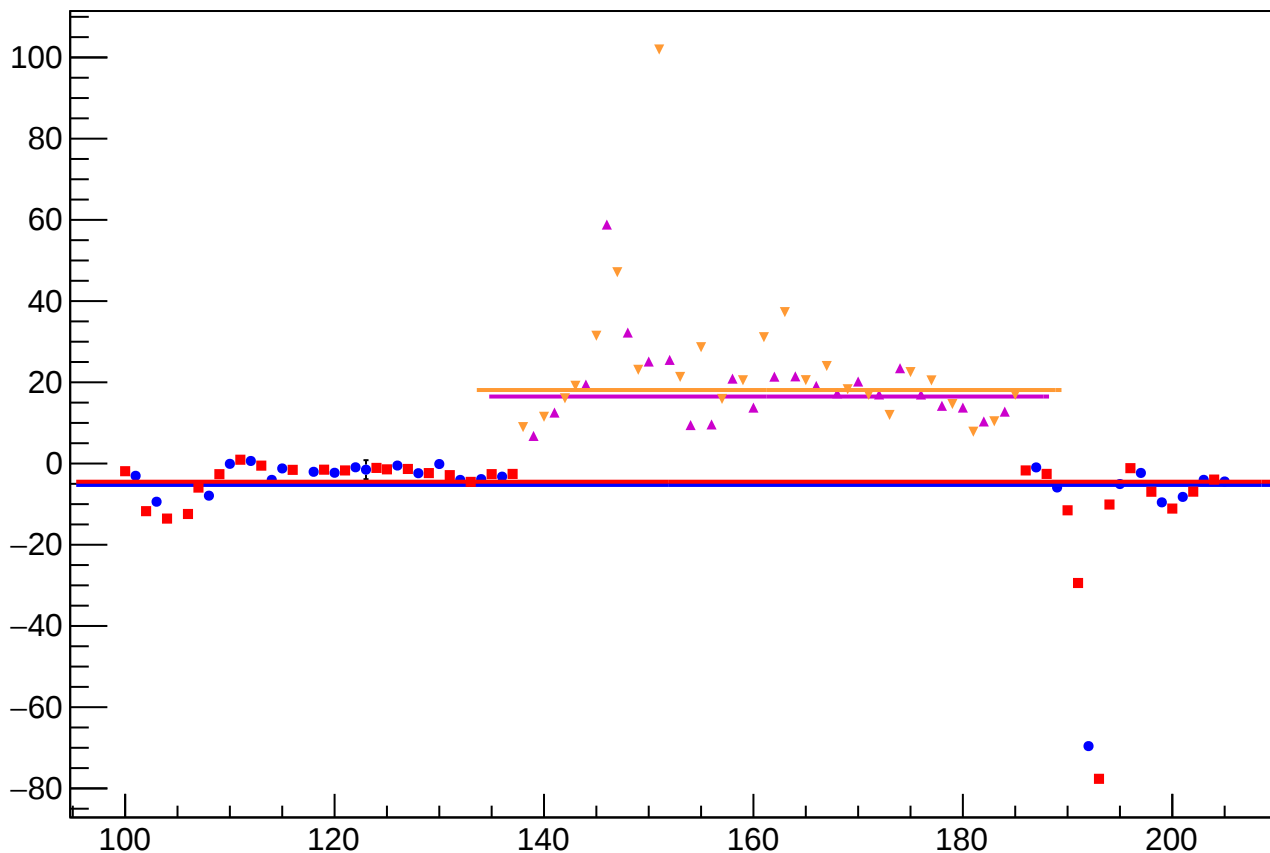
Right: 0.100 $\pm$ 0.034 χ^2 /NDF: 8357.2/55

In: 0.278 $\pm$ 0.026 χ^2 /NDF: 10131.1/48

Out: 0.324 $\pm$ 0.027 χ^2 /NDF: 11562.6/54

All: 0.301 $\pm$ 0.019 χ^2 /NDF: 21695.2/103

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.267+/-0.054 χ^2/NDF : 26969.1/25

Left Out: 18.101+/-0.039 χ^2/NDF : 77839.7/24

Right Out: -4.476+/-0.048 χ^2/NDF : 28134.9/29

Left In: 16.496+/-0.038 χ^2/NDF : 40867.3/22

Left: 17.270+/-0.027 χ^2/NDF : 119584.1/47

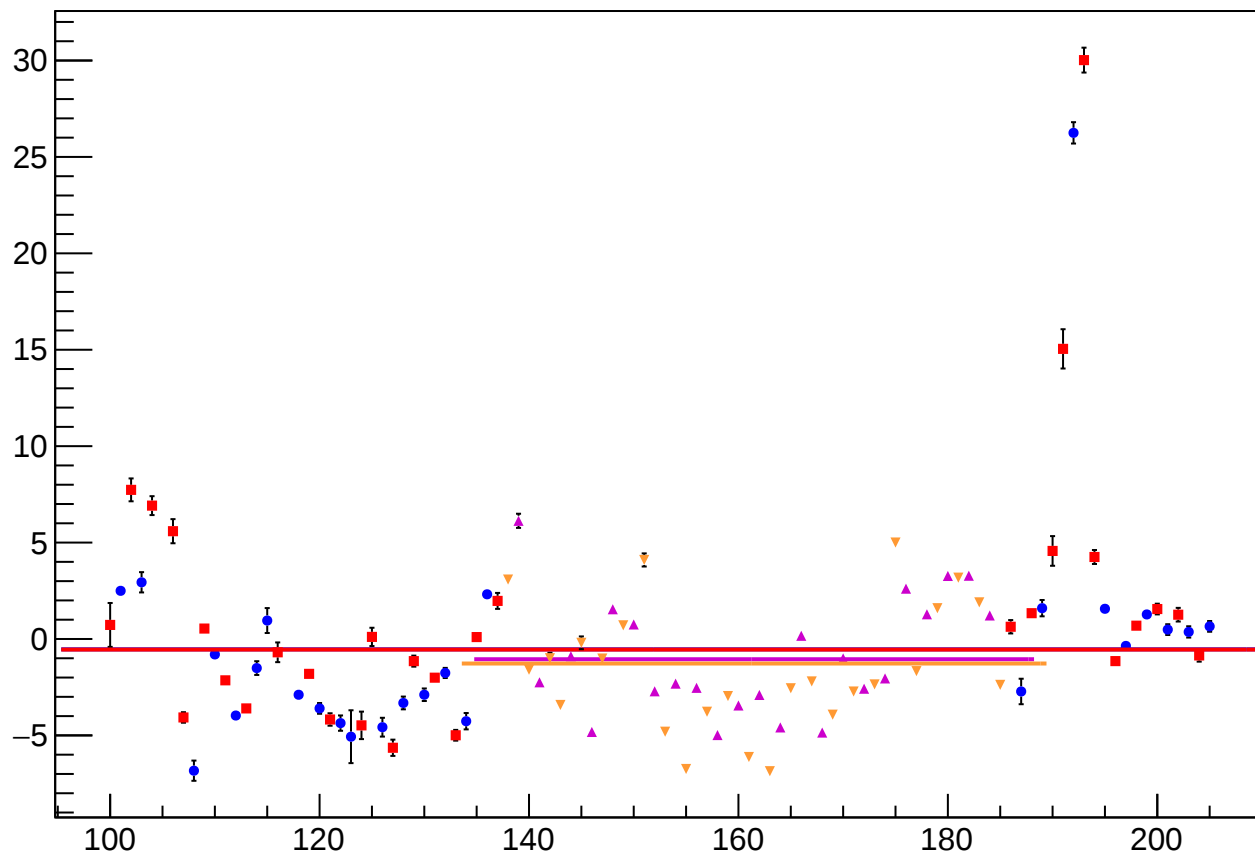
Right: -4.823+/-0.036 χ^2/NDF : 55223.3/55

In: 9.422+/-0.031 χ^2/NDF : 176420.6/48

Out: 9.128+/-0.030 χ^2/NDF : 239246.5/54

All: 9.272+/-0.022 χ^2/NDF : 415713.2/103

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.537 ± 0.058 $\chi^2/\text{NDF}: 4015.1/25$

Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$

Right Out: -0.549 ± 0.055 $\chi^2/\text{NDF}: 4619.0/29$

Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$

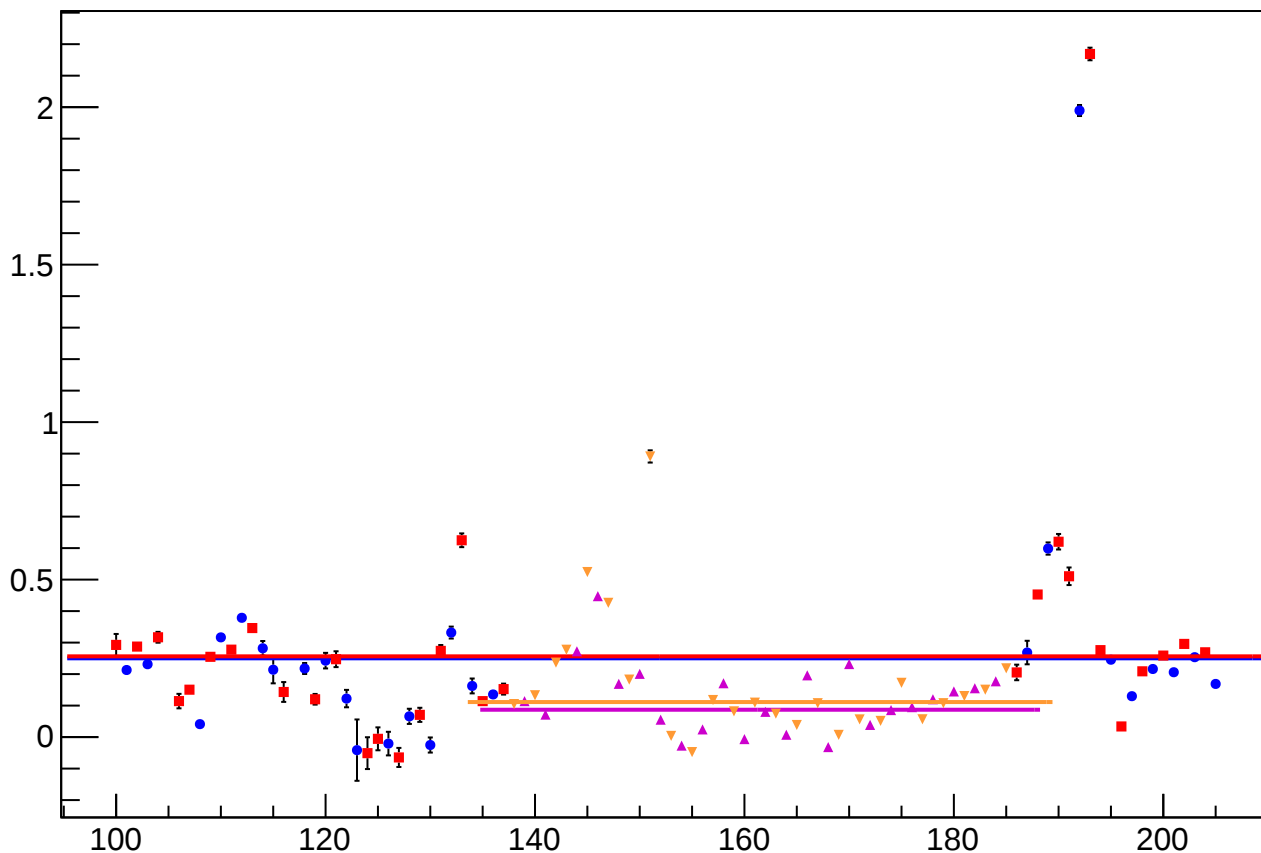
Right: -0.543 ± 0.040 $\chi^2/\text{NDF}: 8634.1/55$

In: -0.919 ± 0.029 $\chi^2/\text{NDF}: 10746.9/48$

Out: -1.056 ± 0.030 $\chi^2/\text{NDF}: 12693.0/54$

All: -0.986 ± 0.021 $\chi^2/\text{NDF}: 23450.6/103$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.250+/-0.003 χ^2/NDF : 11327.4/25

Left Out: 0.111+/-0.002 χ^2/NDF : 4474.5/24

Right Out: 0.256+/-0.002 χ^2/NDF : 11748.1/29

Left In: 0.087+/-0.001 χ^2/NDF : 3598.5/22

Left: 0.098+/-0.001 χ^2/NDF : 8197.1/47

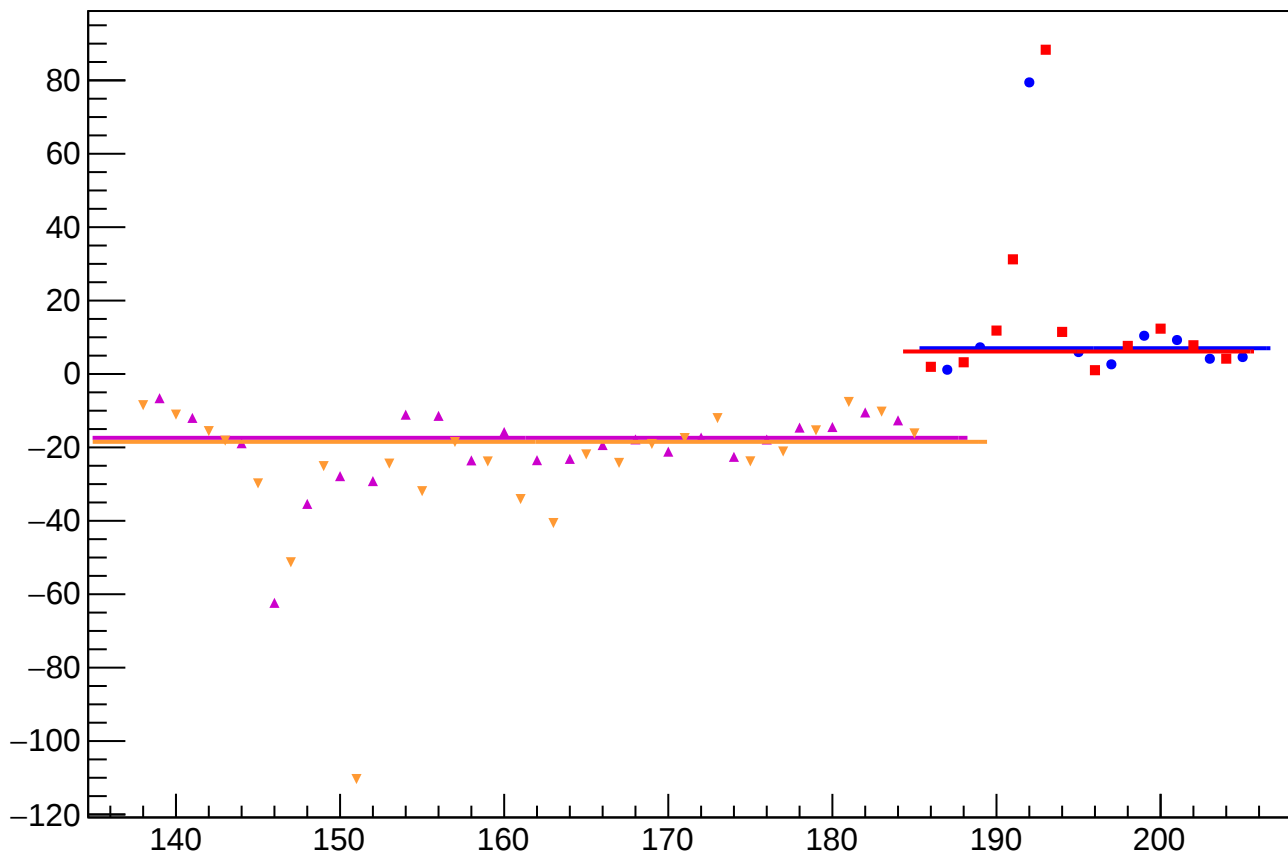
Right: 0.253+/-0.002 χ^2/NDF : 23078.6/55

In: 0.128+/-0.001 χ^2/NDF : 17917.8/48

Out: 0.153+/-0.001 χ^2/NDF : 18618.5/54

All: 0.140+/-0.001 χ^2/NDF : 36722.6/103

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Left: -17.926 ± 0.028 χ^2/NDF : 131443.9/47

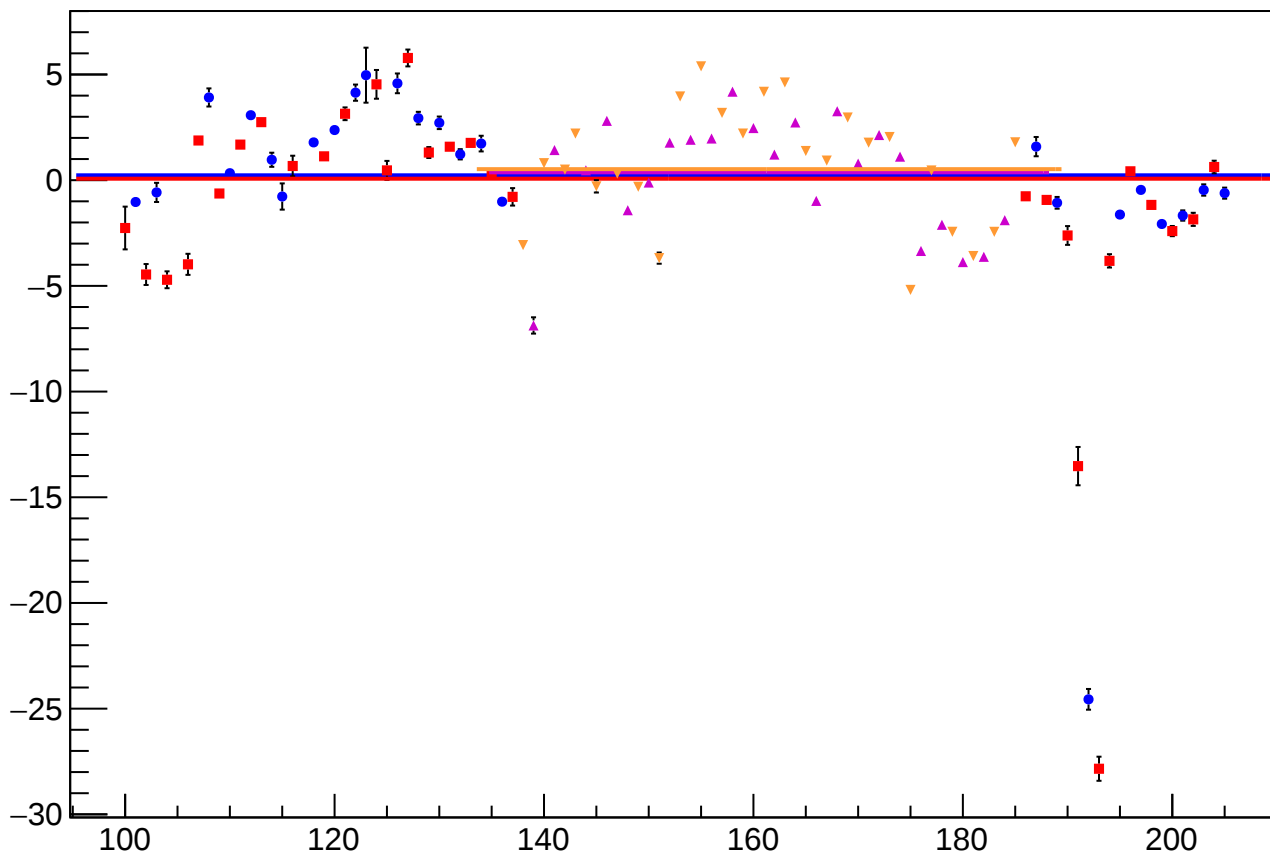
Right: 6.543 ± 0.047 χ^2/NDF : 50689.6/19

In: -11.552 ± 0.034 χ^2/NDF : 162065.9/31

Out: -11.747 ± 0.034 χ^2/NDF : 218655.6/35

All: -11.650 ± 0.024 χ^2/NDF : 380738.1/67

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.231 ± 0.051 $\chi^2/\text{NDF}: 3811.7/25$

Left Out: 0.522 ± 0.033 $\chi^2/\text{NDF}: 7055.1/24$

Right Out: 0.070 ± 0.048 $\chi^2/\text{NDF}: 4246.8/29$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

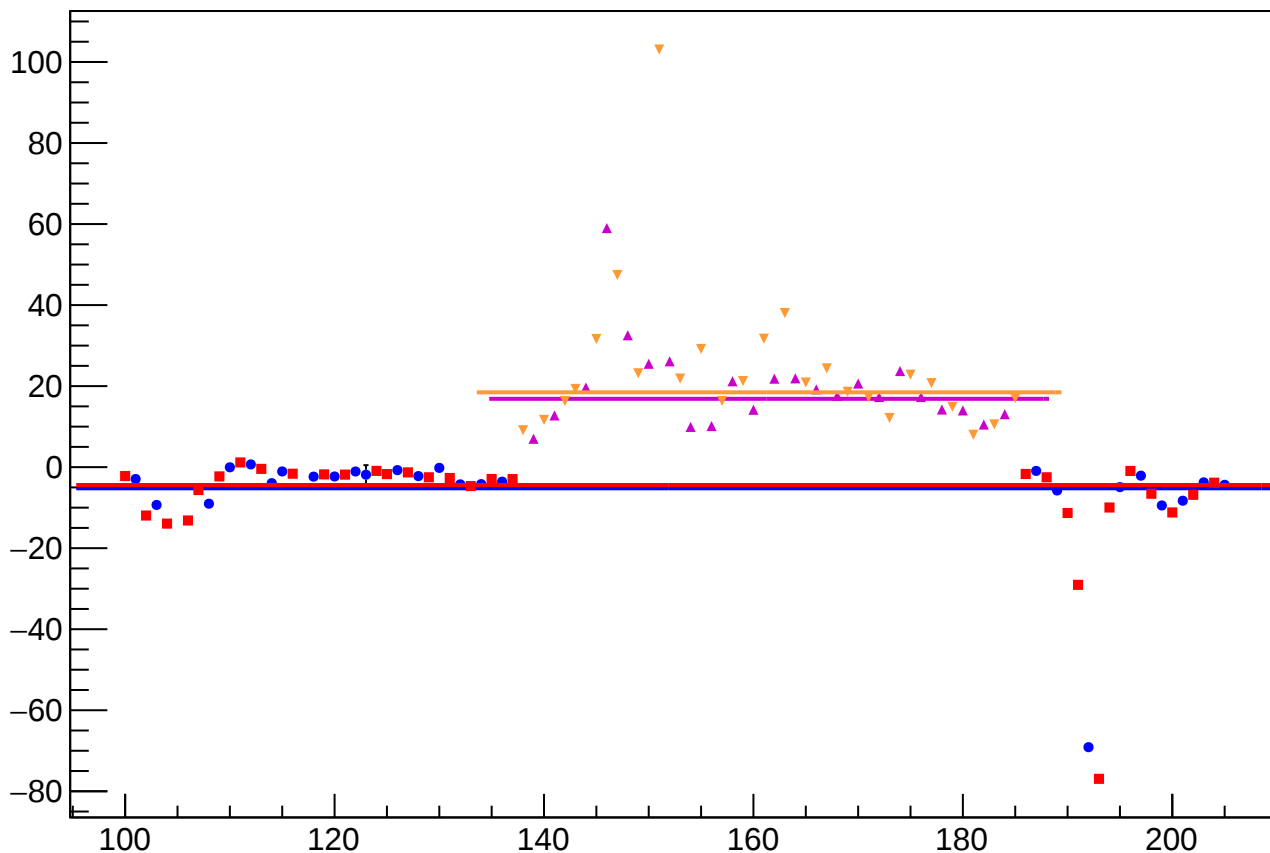
Right: 0.146 ± 0.035 $\chi^2/\text{NDF}: 8063.9/55$

In: 0.332 ± 0.027 $\chi^2/\text{NDF}: 10034.7/48$

Out: 0.375 ± 0.027 $\chi^2/\text{NDF}: 11362.8/54$

All: 0.353 ± 0.019 $\chi^2/\text{NDF}: 21398.7/103$

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.218+/-0.055 χ^2/NDF : 26524.1/25

Left Out: 18.467+/-0.040 χ^2/NDF : 77226.7/24

Right Out: -4.408+/-0.048 χ^2/NDF : 27639.2/29

Left In: 16.867+/-0.039 χ^2/NDF : 39779.0/22

Left: 17.640+/-0.028 χ^2/NDF : 117837.8/47

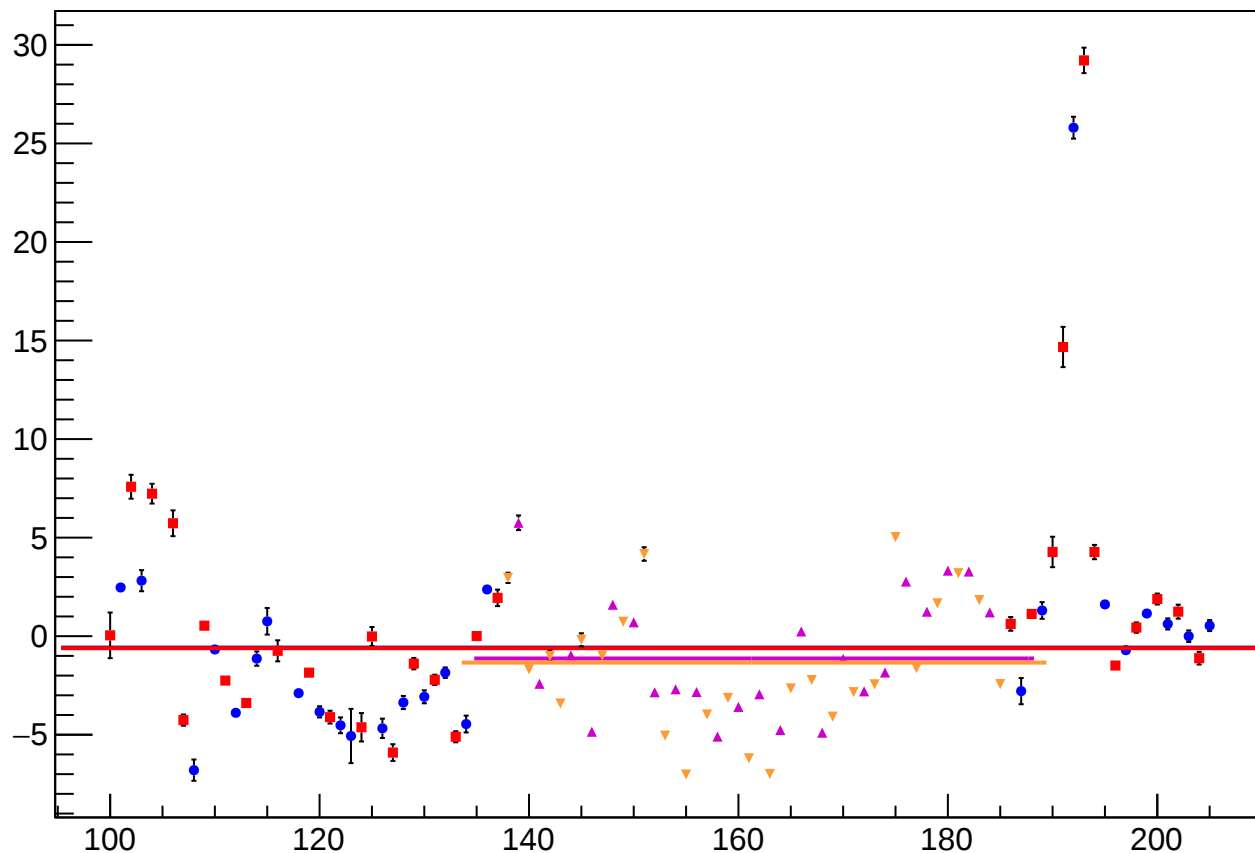
Right: -4.763+/-0.036 χ^2/NDF : 54286.4/55

In: 9.531+/-0.032 χ^2/NDF : 175231.4/48

Out: 9.210+/-0.031 χ^2/NDF : 237979.3/54

All: 9.367+/-0.022 χ^2/NDF : 413263.8/103

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.580 ± 0.059 $\chi^2/\text{NDF}: 3898.9/25$

Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$

Right Out: -0.610 ± 0.056 $\chi^2/\text{NDF}: 4464.0/29$

Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$

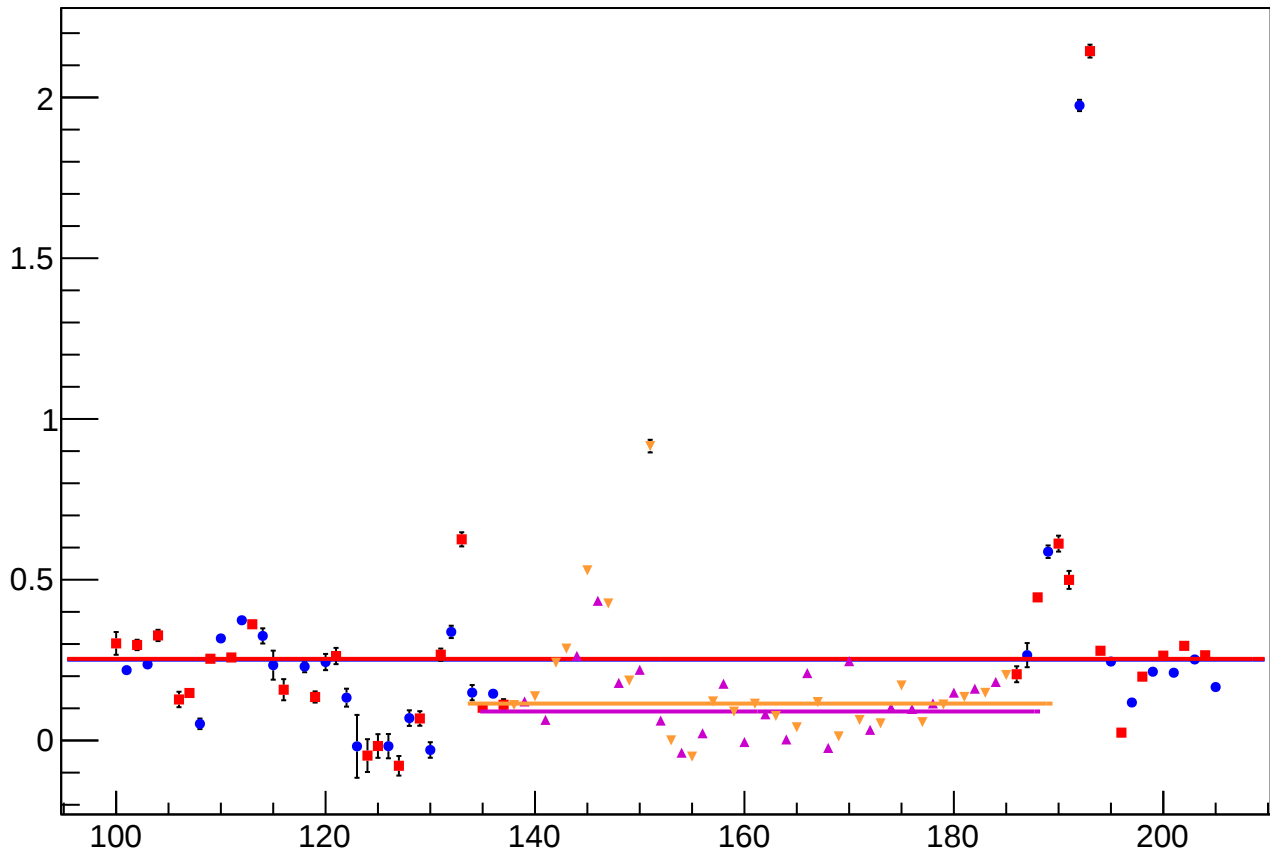
Right: -0.596 ± 0.040 $\chi^2/\text{NDF}: 8363.1/55$

In: -0.988 ± 0.030 $\chi^2/\text{NDF}: 10672.8/48$

Out: -1.119 ± 0.031 $\chi^2/\text{NDF}: 12491.7/54$

All: -1.052 ± 0.021 $\chi^2/\text{NDF}: 23173.9/103$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.251 $\pm$ 0.003 χ^2 /NDF: 11070.8/25

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.254 $\pm$ 0.003 χ^2 /NDF: 11600.5/29

Left In: 0.090 $\pm$ 0.002 χ^2 /NDF:3676.5/22

Left: 0.102 $\pm$ 0.001 χ^2 /NDF: 8228.2/47

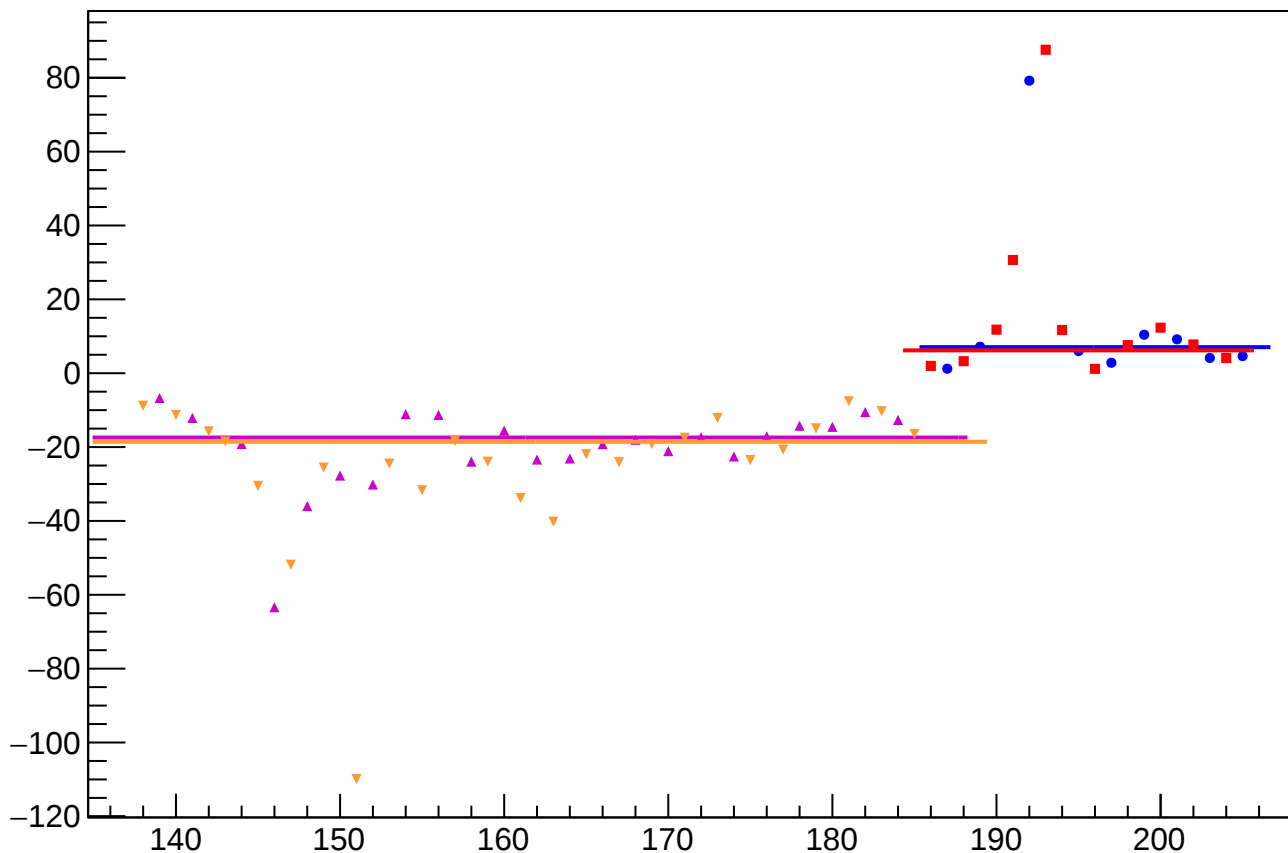
Right: 0.253 $\pm$ 0.002 χ^2 /NDF: 22671.7/55

In: 0.132 $\pm$ 0.001 χ^2 /NDF:17584.0/48

Out: 0.156 $\pm$ 0.001 χ^2 /NDF:18168.9/54

All: 0.143 $\pm$ 0.001 χ^2 /NDF: 35913.0/103

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



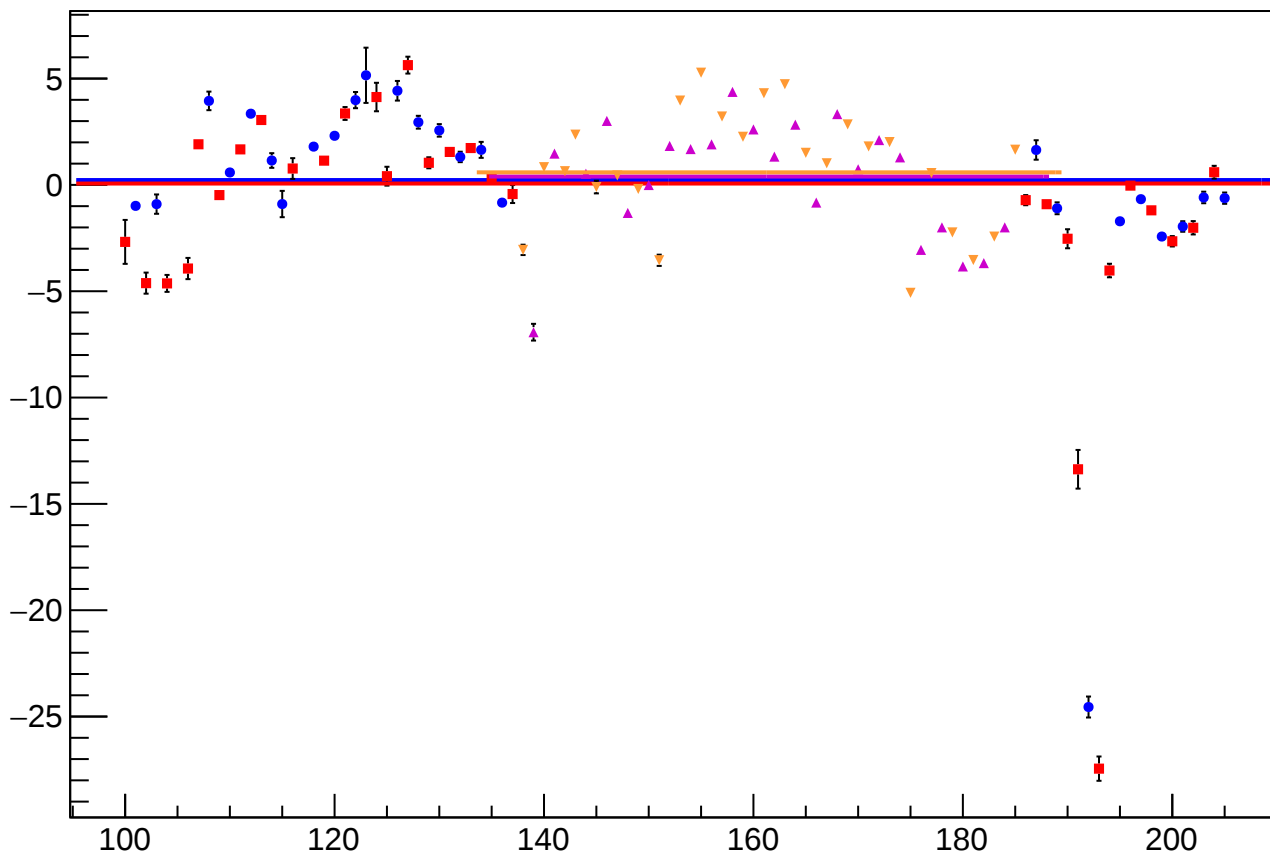
Right In: 7.060+/-0.070 χ^2/NDF : 24451.8/8
 Left Out: -18.566+/-0.040 χ^2/NDF : 86389.6/24
 Right Out: 6.188+/-0.066 χ^2/NDF : 25004.5/10
 Left In: -17.414+/-0.039 χ^2/NDF : 43504.1/22

Left: -17.979+/-0.028 χ^2/NDF : 130314.7/47
 Right: 6.593+/-0.048 χ^2/NDF : 49538.8/19

In: -11.583+/-0.034 χ^2/NDF : 160341.0/31
 Out: -11.820+/-0.034 χ^2/NDF : 215261.7/35

All: -11.702+/-0.024 χ^2/NDF : 375626.5/67

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.228 $\pm$ 0.051 χ^2 /NDF: 3857.1/25

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF: 6796.5/24

Right Out: 0.064 $\pm$ 0.048 χ^2 /NDF: 4204.5/29

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

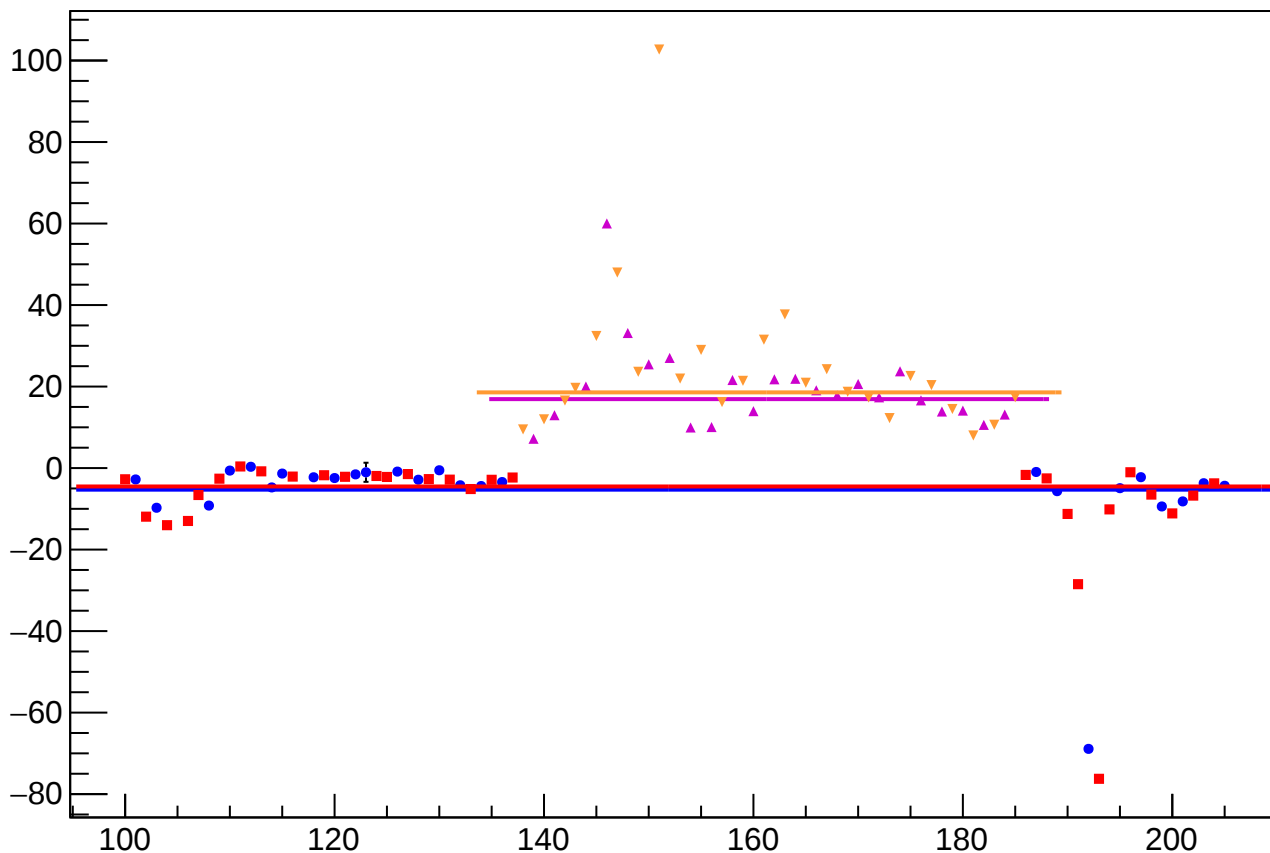
Right: 0.141 $\pm$ 0.035 χ^2 /NDF: 8067.1/55

In: 0.348 $\pm$ 0.027 χ^2 /NDF: 9924.5/48

Out: 0.420 $\pm$ 0.027 χ^2 /NDF: 11082.0/54

All: 0.384 $\pm$ 0.019 χ^2 /NDF: 21010.0/103

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.293+/-0.055 χ^2/NDF : 25834.9/25

Left Out: 18.573+/-0.040 χ^2/NDF : 76029.9/24

Right Out: -4.516+/-0.049 χ^2/NDF : 26744.8/29

Left In: 16.919+/-0.039 χ^2/NDF : 40154.5/22

Left: 17.718+/-0.028 χ^2/NDF : 117057.3/47

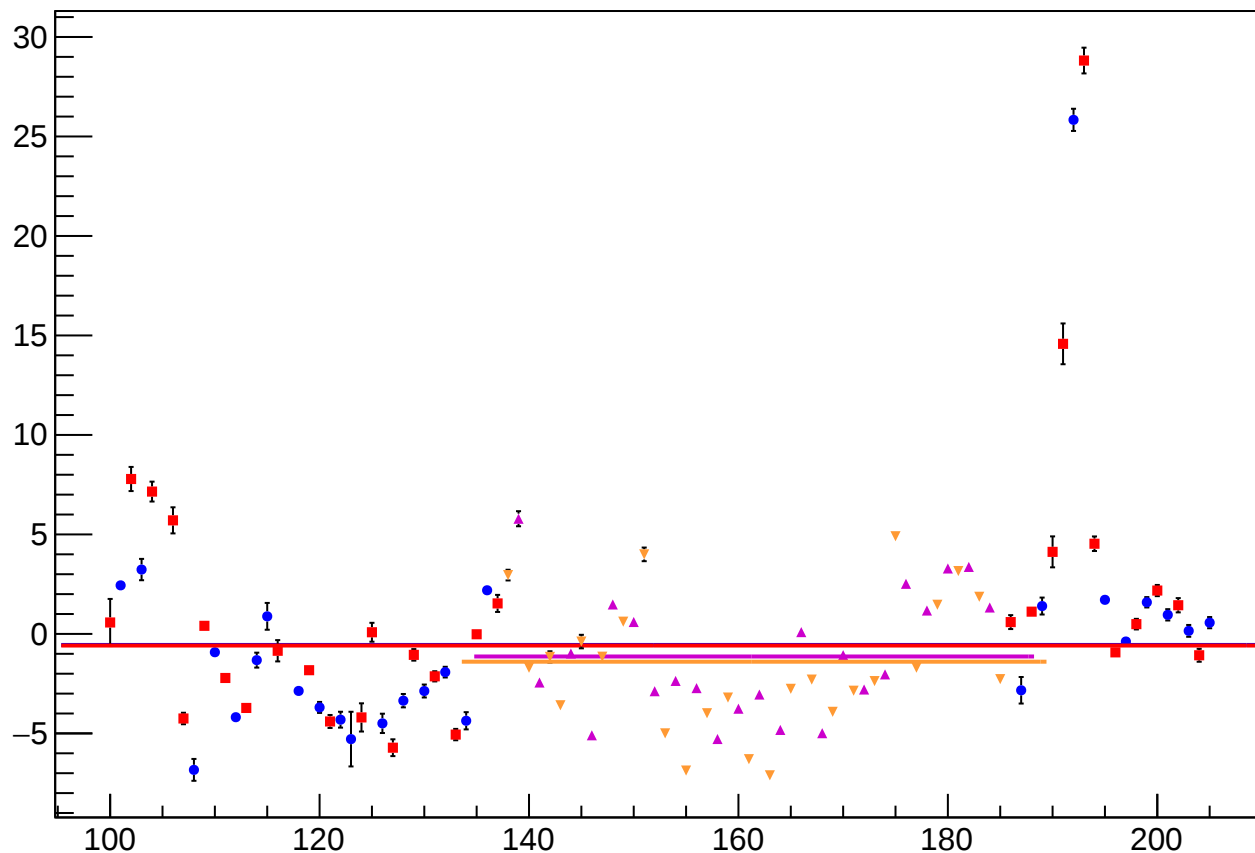
Right: -4.858+/-0.037 χ^2/NDF : 52690.2/55

In: 9.575+/-0.032 χ^2/NDF : 173746.7/48

Out: 9.288+/-0.031 χ^2/NDF : 235034.2/54

All: 9.428+/-0.022 χ^2/NDF : 408822.5/103

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.555 ± 0.059 $\chi^2/\text{NDF}: 3898.7/25$

Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$

Right Out: -0.584 ± 0.056 $\chi^2/\text{NDF}: 4405.3/29$

Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$

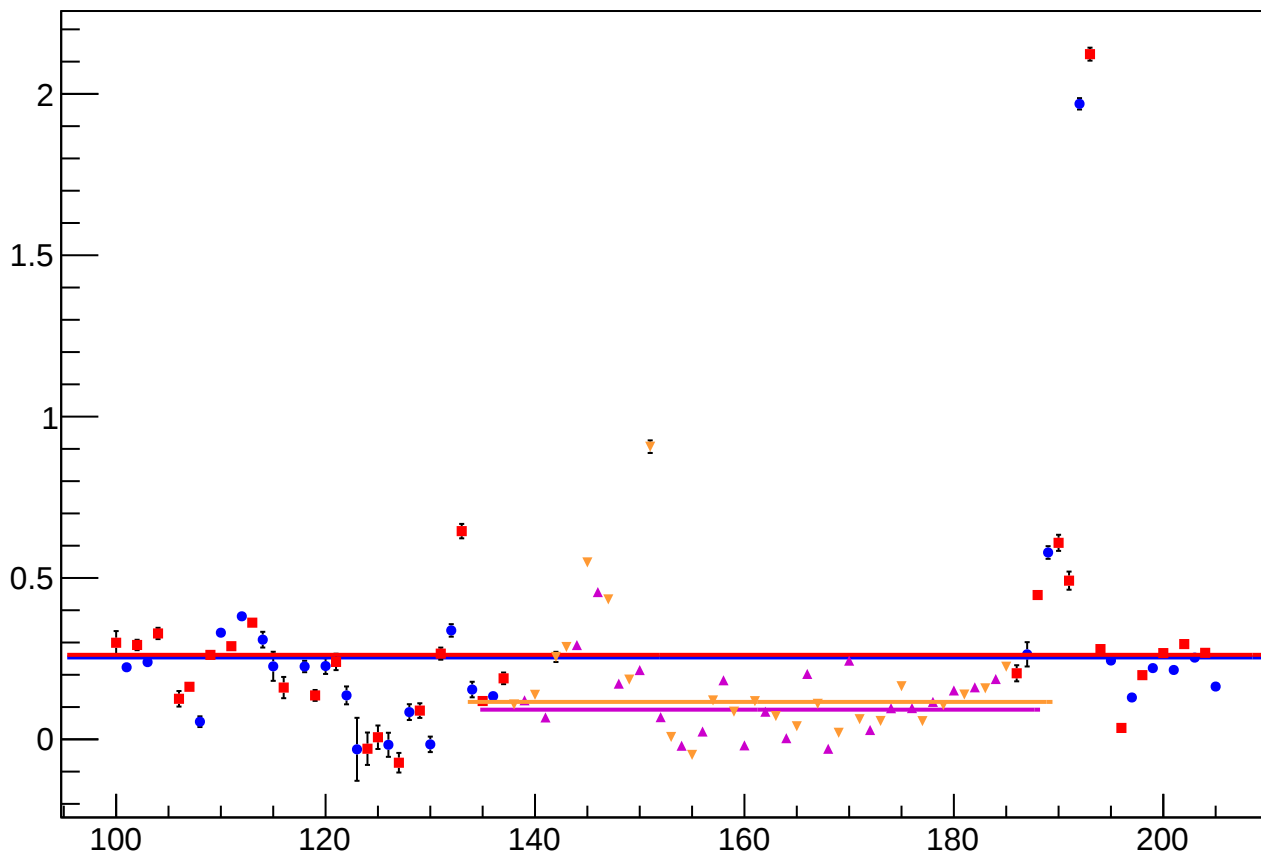
Right: -0.570 ± 0.041 $\chi^2/\text{NDF}: 8304.1/55$

In: -0.984 ± 0.030 $\chi^2/\text{NDF}: 10566.9/48$

Out: -1.153 ± 0.031 $\chi^2/\text{NDF}: 12202.1/54$

All: -1.066 ± 0.022 $\chi^2/\text{NDF}: 22784.3/103$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.254 $\pm$ 0.003 χ^2 /NDF: 10830.9/25

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.262 $\pm$ 0.003 χ^2 /NDF: 11072.1/29

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

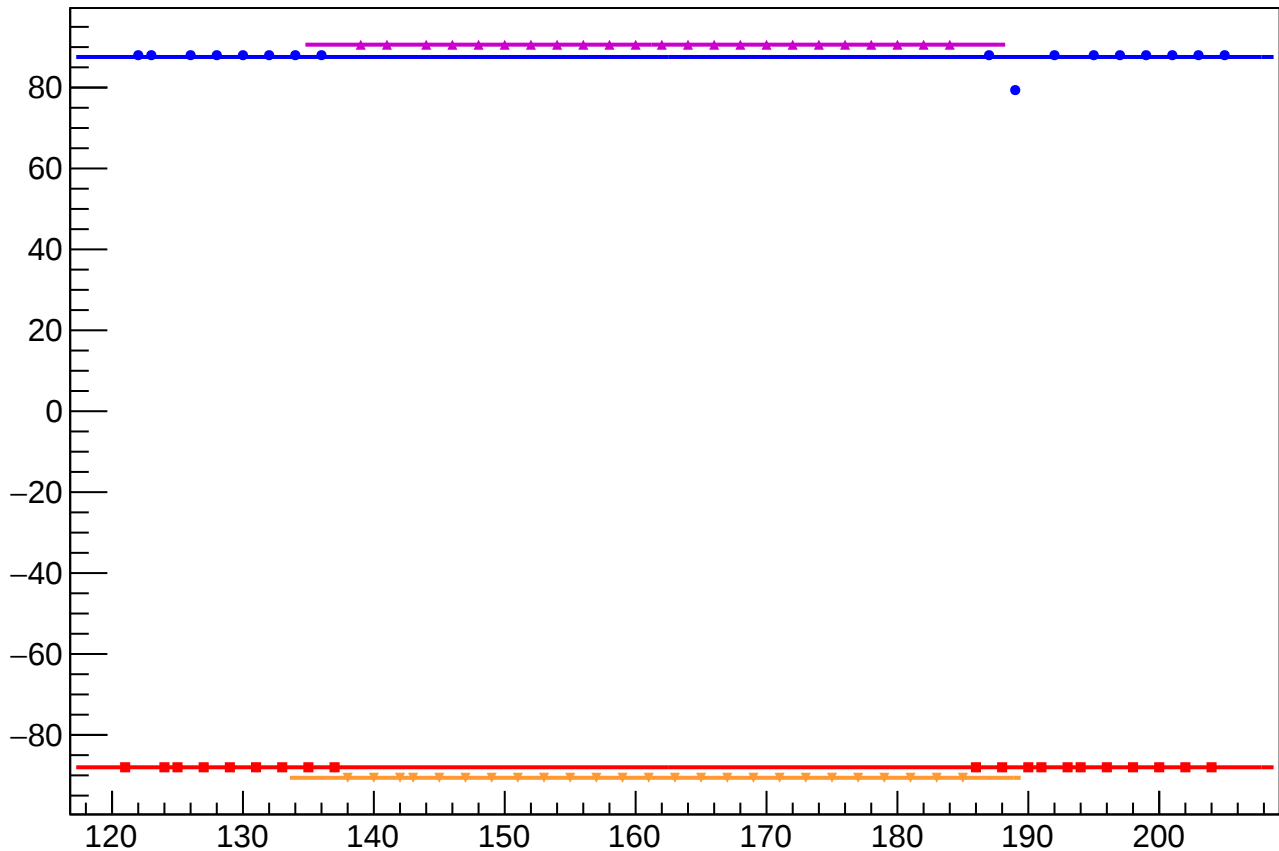
Right: 0.258 $\pm$ 0.002 χ^2 /NDF: 21907.9/55

In: 0.133 $\pm$ 0.001 χ^2 /NDF:17252.2/48

Out: 0.159 $\pm$ 0.001 χ^2 /NDF:17822.7/54

All: 0.146 $\pm$ 0.001 χ^2 /NDF: 35246.6/103

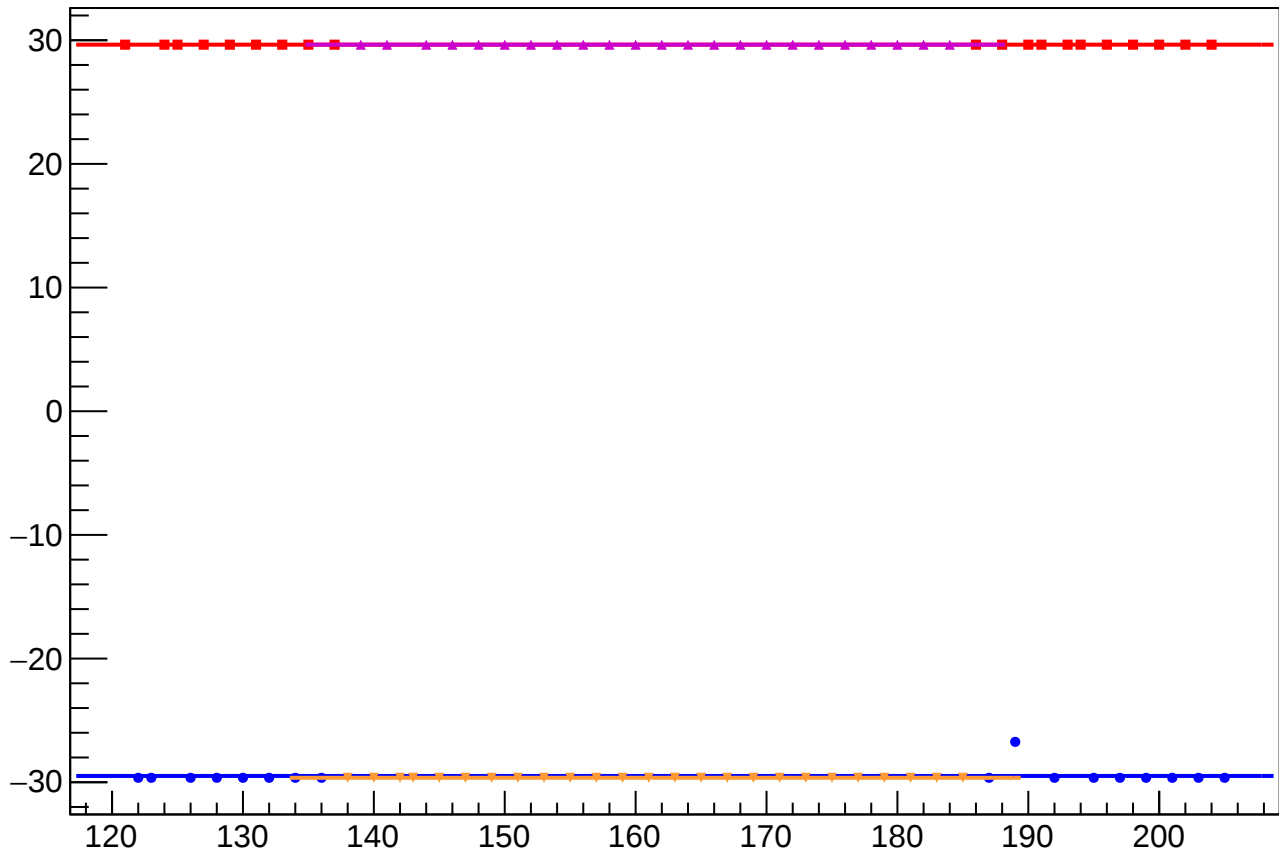
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.558 $\pm$ 0.000 χ^2 /NDF: 3601171224535367171232738349940736.0/16
 Left Out: -90.599 $\pm$ 0.000 χ^2 /NDF: 6053403.0/24
 Right Out: -88.001 $\pm$ 0.000 χ^2 /NDF: 1088501.8/19
 Left In: 90.599 $\pm$ 0.000 χ^2 /NDF: 5932436.0/22

Left: -2.410 $\pm$ 0.000 χ^2 /NDF: 30521213250005045
 Right: -2.796 $\pm$ 0.000 χ^2 /NDF: 1575484044170513
 In: 89.522 $\pm$ 0.000 χ^2 /NDF: 95348244295026755
 Out: -89.676 $\pm$ 0.000 χ^2 /NDF: 4583601639523719
 All: -2.547 $\pm$ 0.000 χ^2 /NDF: 4627624963064

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.491+/-0.000

Left Out: -29.641+/-0.000

Right Out: 29.641+/-0.000

Left In: 29.641+/-0.000

χ^2/NDF : 408553081078920346055880990523392.0/16

χ^2/NDF : 654199.2/24

χ^2/NDF : 1413058.1/19

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000

Right: 0.942+/-0.000

In: 8.700+/-0.000

Out: -8.573+/-0.000

All: -0.175+/-0.000

χ^2/NDF : 32668496095314519

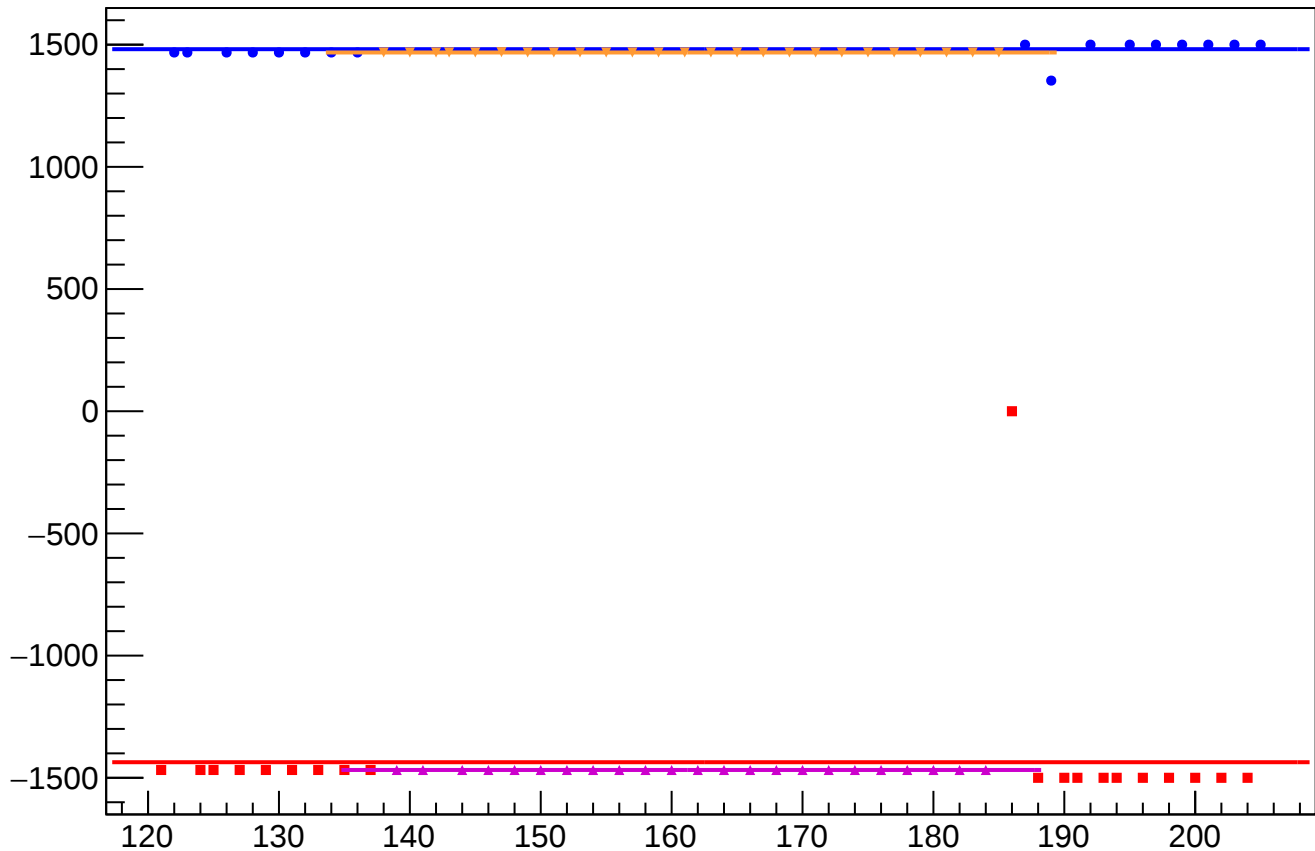
χ^2/NDF : 17873875478376016

χ^2/NDF : 224293279641047974

χ^2/NDF : 23854322227239332

χ^2/NDF : 5058189430847

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1481.516+/-0.000

χ^2/NDF : 1111252183257667240430449948440395776.0/16

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1436.230+/-0.000

χ^2/NDF : 81541828037543835330648308709226184704.0/19

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

Left: 39.085+/-0.000 χ^2/NDF : 80133946076775322.0/16

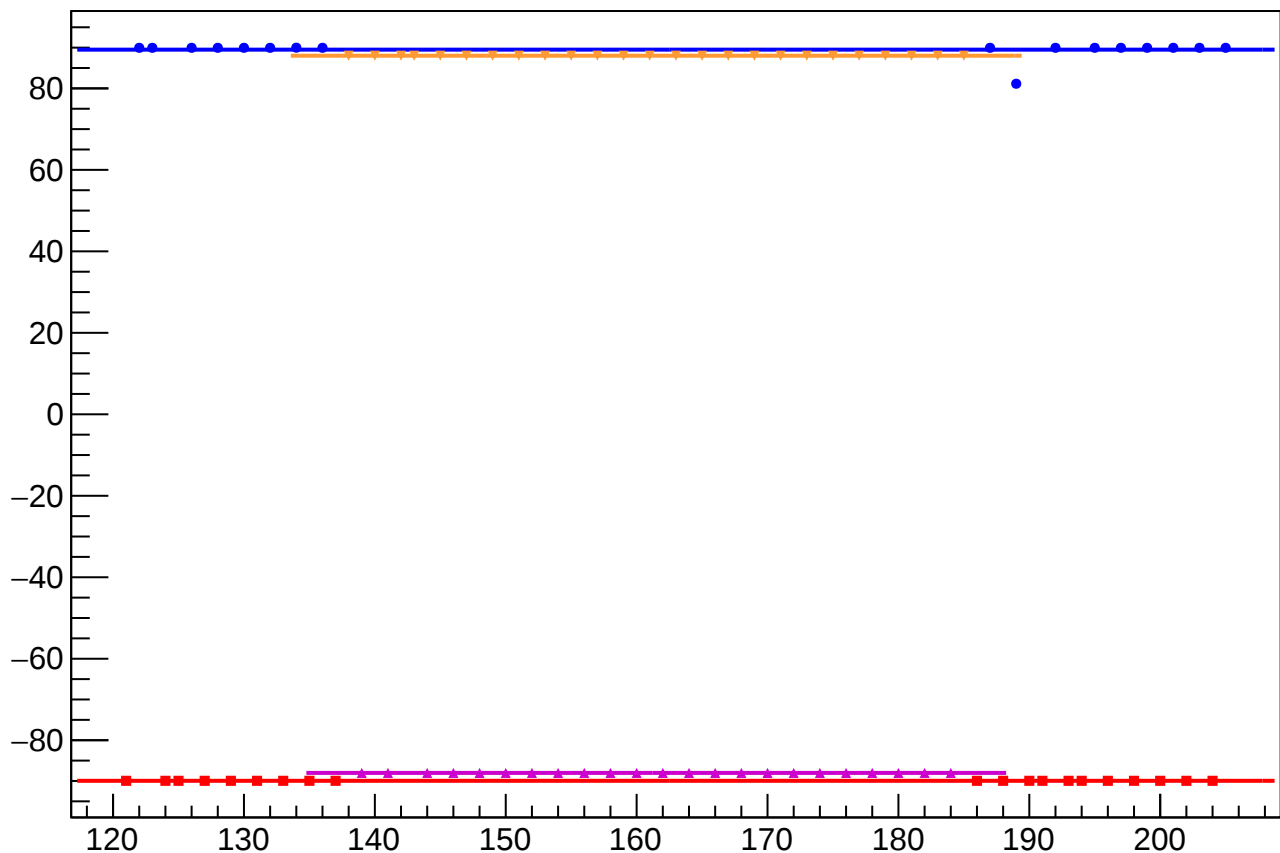
Right: -20.139+/-0.000 χ^2/NDF : 443343180922345.0/16

In: -423.463+/-0.000 χ^2/NDF : 5580535229568642.0/16

Out: 435.917+/-0.000 χ^2/NDF : 5806949639331511.0/16

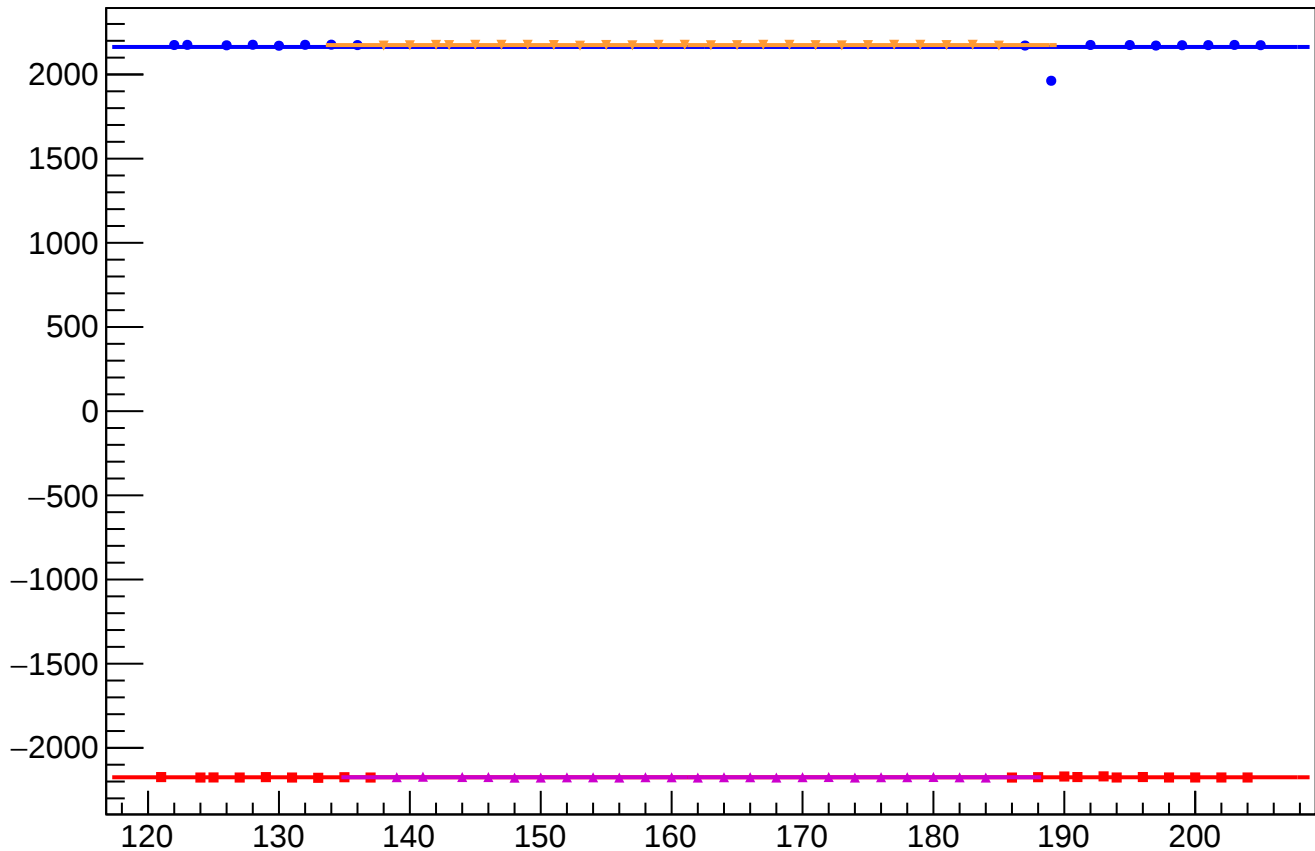
All: 18.073+/-0.000 χ^2/NDF : 1245145674251.0/16

Phi_FG_mean vs Slug, Sign Corrected



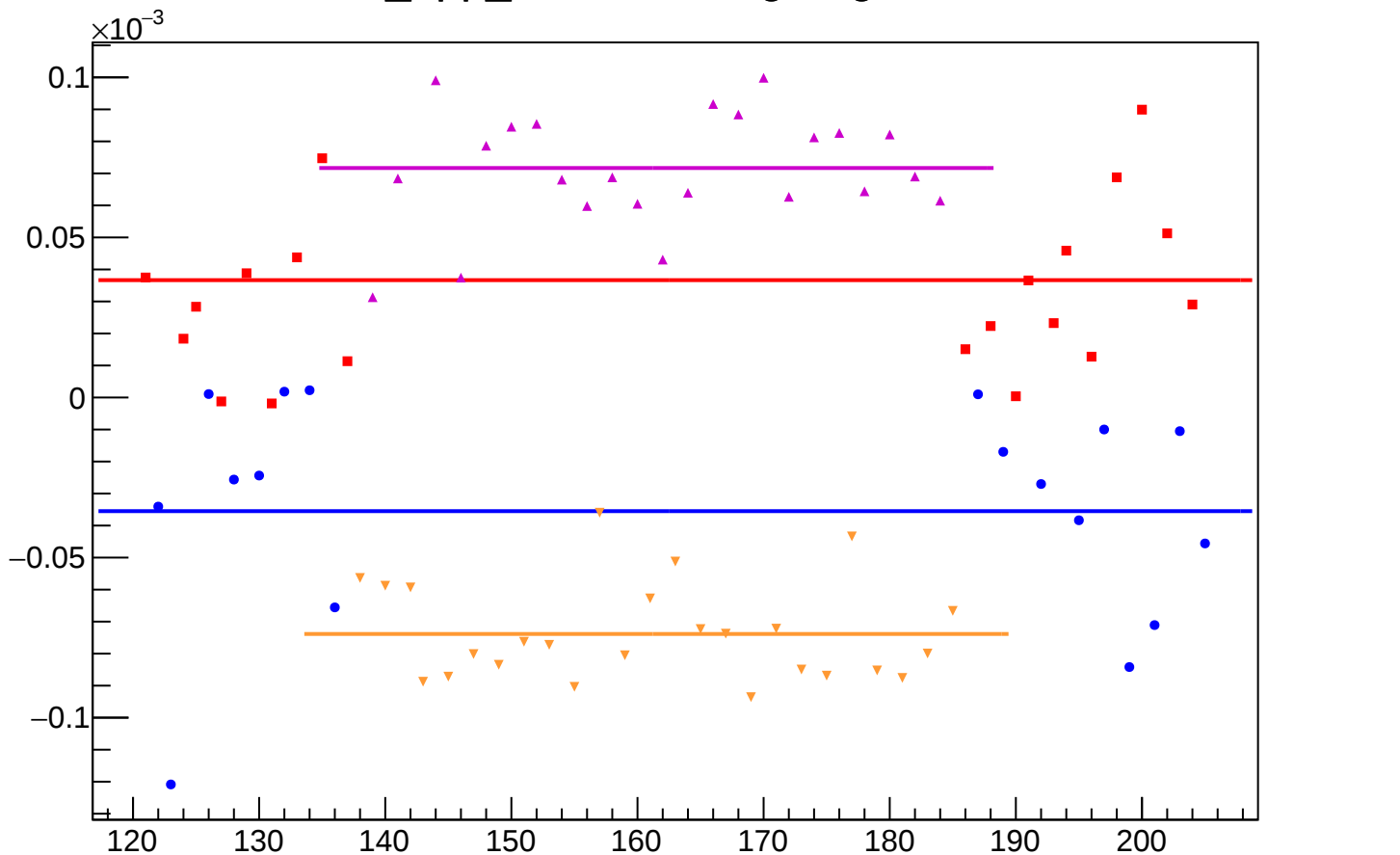
Right In: 89.507 $\pm$ 0.000 χ^2 /NDF: 3763905714374076937825389702545408.0/16
 Left Out: 88.021 $\pm$ 0.000 χ^2 /NDF: 5326388.8/24
 Right Out: -89.959 $\pm$ 0.000 χ^2 /NDF: 3563581.3/19
 Left In: -88.021 $\pm$ 0.000 χ^2 /NDF: 6084099.2/22
 Left: 2.342 $\pm$ 0.000 χ^2 /NDF: 288085769312401978
 Right: -2.858 $\pm$ 0.000 χ^2 /NDF: 1646407093452760
 In: -25.152 $\pm$ 0.000 χ^2 /NDF: 20216359992648430
 Out: 24.770 $\pm$ 0.000 χ^2 /NDF: 21501684835265571
 All: 0.497 $\pm$ 0.000 χ^2 /NDF: 45308336685678

HALLA_p_mean vs Slug, Sign Corrected



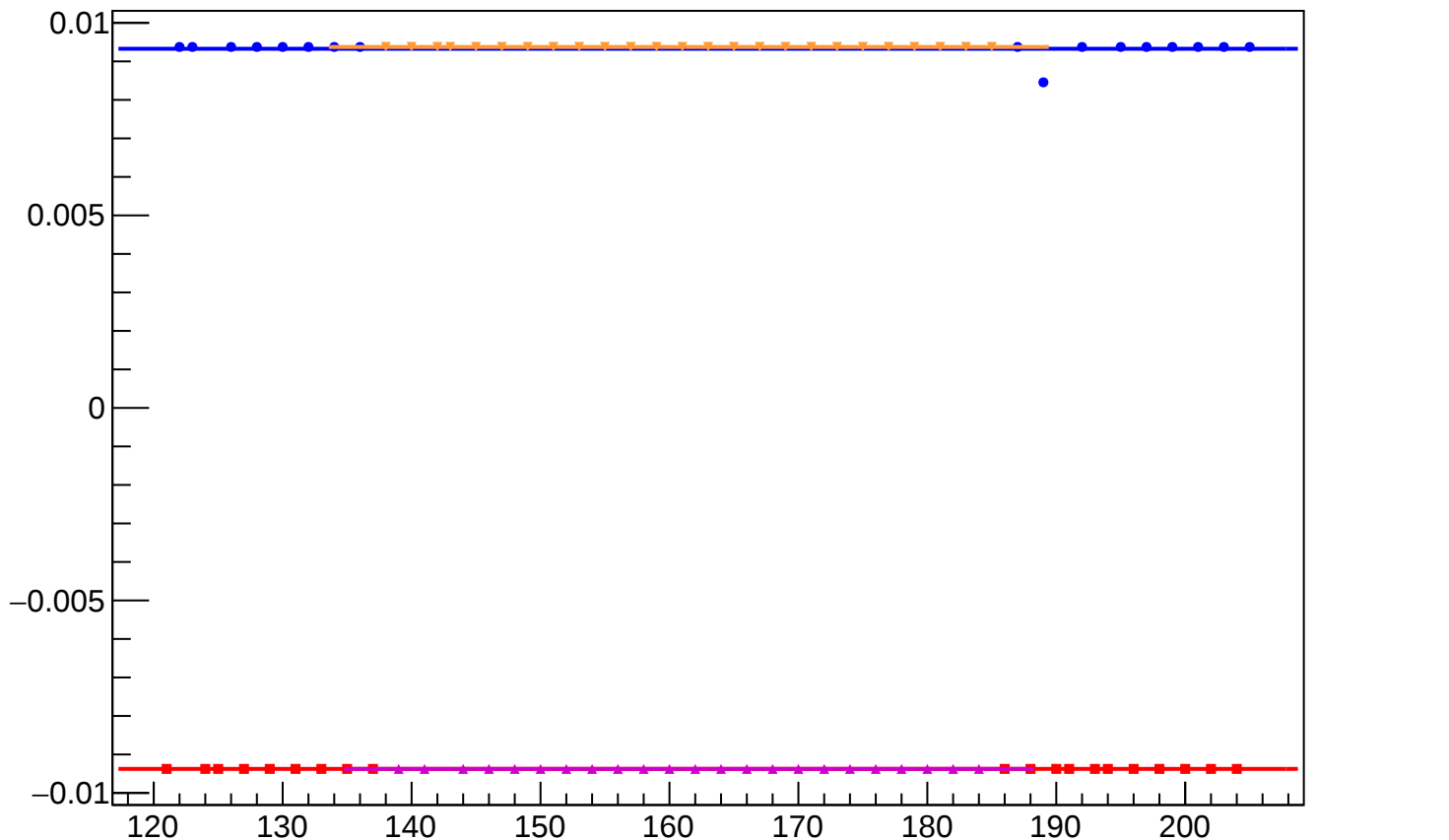
Right In: 2163.406 $\pm$ 0.000 χ^2 /NDF: 2169695810816097003171645957152440320.0/16
 Left Out: 2174.622 $\pm$ 0.000 χ^2 /NDF: 5110578135476093110874911595823104.0/24
 Right Out: -2174.689 $\pm$ 0.000 χ^2 /NDF: 4593748250723491315381505219362816.0/19
 Left In: -2174.539 $\pm$ 0.000 χ^2 /NDF: 3400742562425168967494665391570944.0/22
 All: 12.789 $\pm$ 0.000 χ^2 /NDF: 2722460905639

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000	χ^2/NDF : 727565581088579966205952.0/16	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 : 40945121323850223
Right Out: 0.000+/-0.000	χ^2/NDF : 706349337248271492448256.0/19	In: 0.000+/-0.000	χ^2/NDF : 8656416724069338927
Left In: 0.000+/-0.000	χ^2/NDF : 562166279020739416817664.0/22	Out: -0.000+/-0.000	χ^2/NDF : 94473993909185311
		All: -0.000+/-0.000	χ^2/NDF : 2482594178496

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40870884796515739232108544.0/16

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 1788069015695075

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.003+/-0.000

χ^2/NDF : 224378794761094399

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/19

Out: 0.003+/-0.000

χ^2/NDF : 238634170393181942

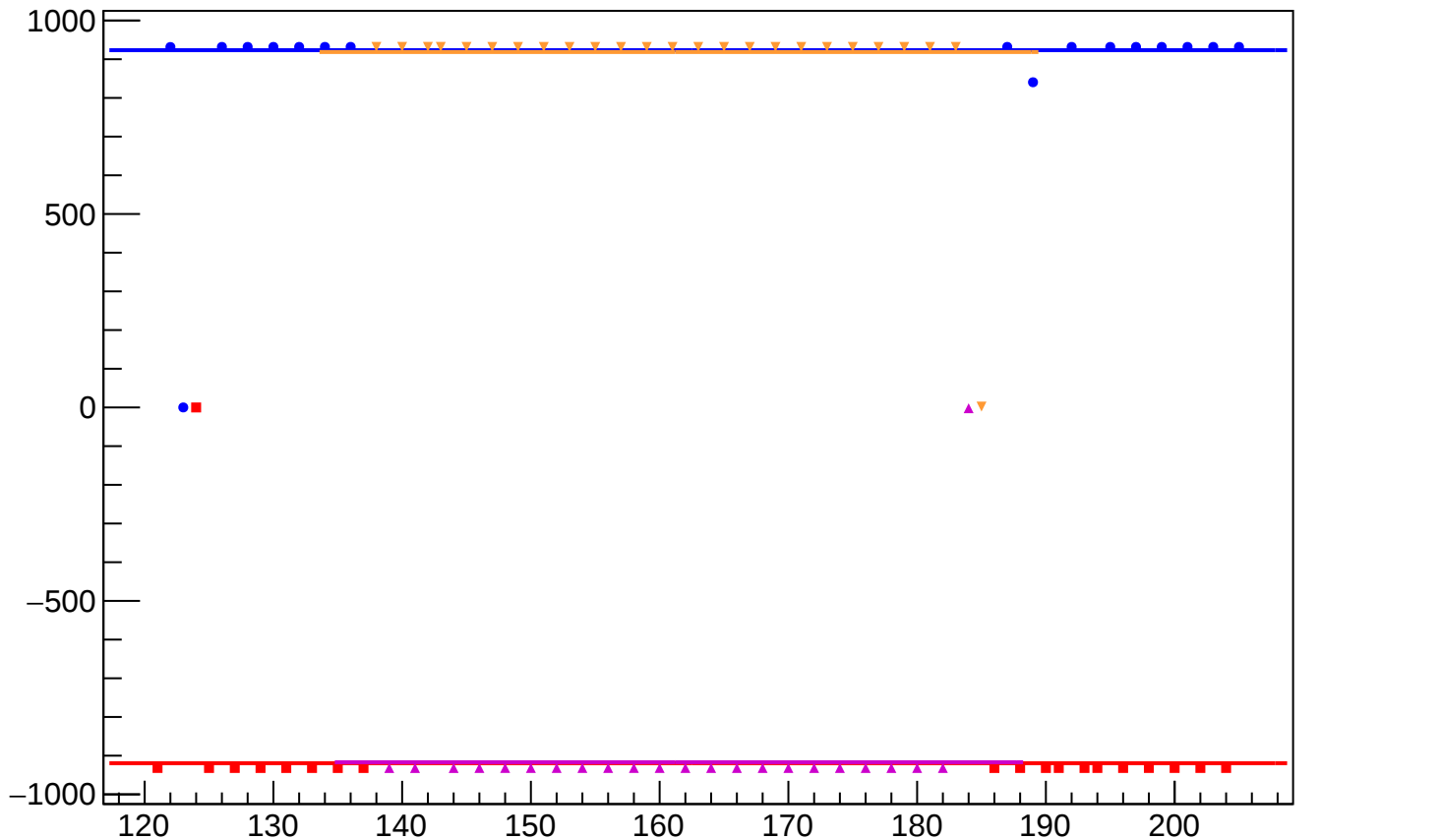
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: 0.000+/-0.000

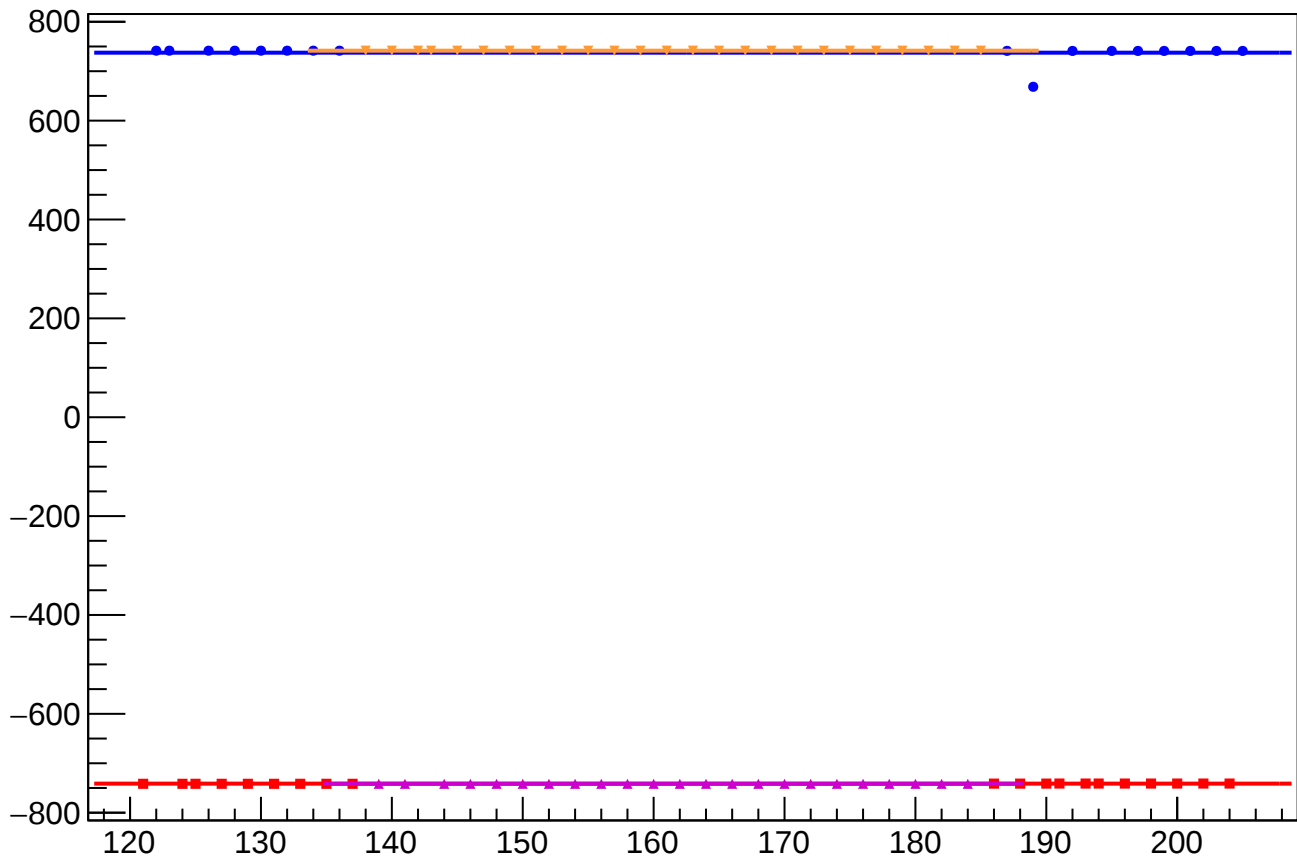
χ^2/NDF : 50601179401500

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 923.343+/-0.000 χ^2/NDF : 3826960072463967869683681765099569152.0/16
 Left Out: 918.645+/-0.000 χ^2/NDF : 23003498704056084939752432521336324096.0/24
 Right Out: -919.413+/-0.000 χ^2/NDF : 11993117284430840690879380901387567104.0/19
 Left In: -916.890+/-0.000 χ^2/NDF : 2466789491747623125028694438888133632.0/22
 All: 7.432+/-0.000 χ^2/NDF : 49342381101238

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 737.474+/-0.000 χ^2/NDF : 255816001045454829804912527760424960.0/16

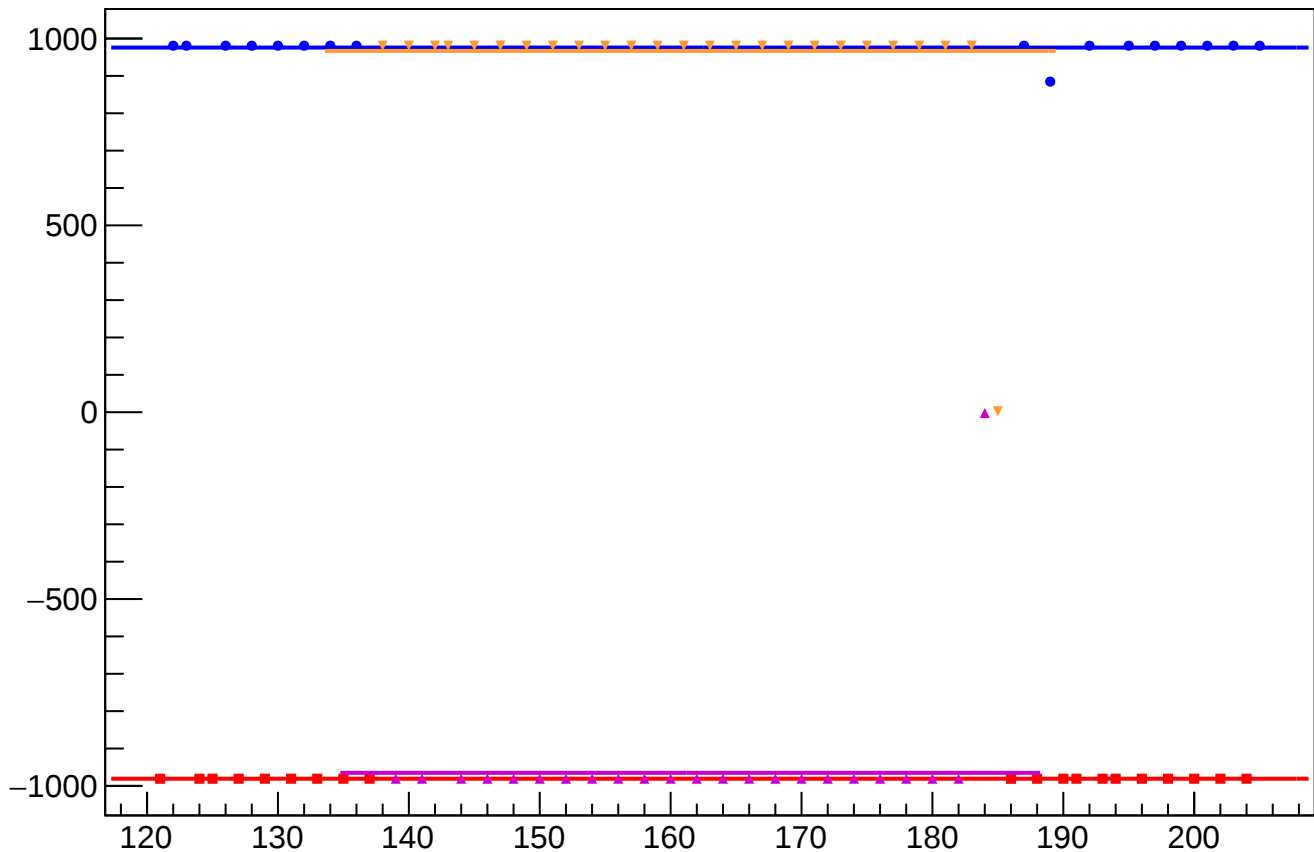
Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24

Right Out: -741.199+/-0.000 χ^2/NDF : 51630107341382320956767224201216.0/19

Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22

All: 4.377+/-0.000 χ^2/NDF : 31646575848368

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 975.879+/-0.000

χ^2/NDF : 447535072201167125195989582436368384.0/16

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.826+/-0.000

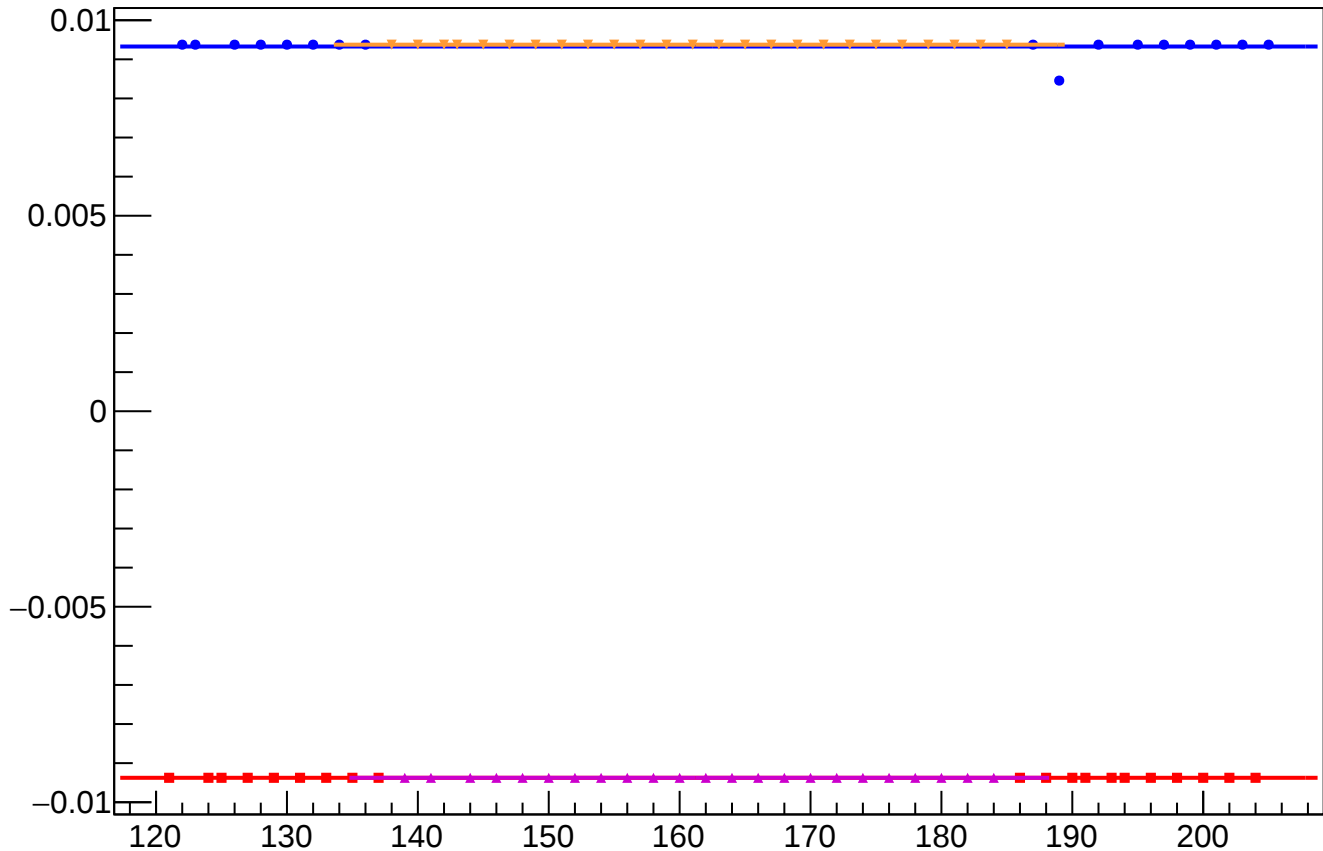
χ^2/NDF : 3125601918813779723679116034048.0/19

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 6.119+/-0.000 χ^2/NDF : 54843164163072

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40870884796515739232108544.0/16

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/19

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 1788069015695075

In: -0.003+/-0.000

χ^2/NDF : 224378794761094399

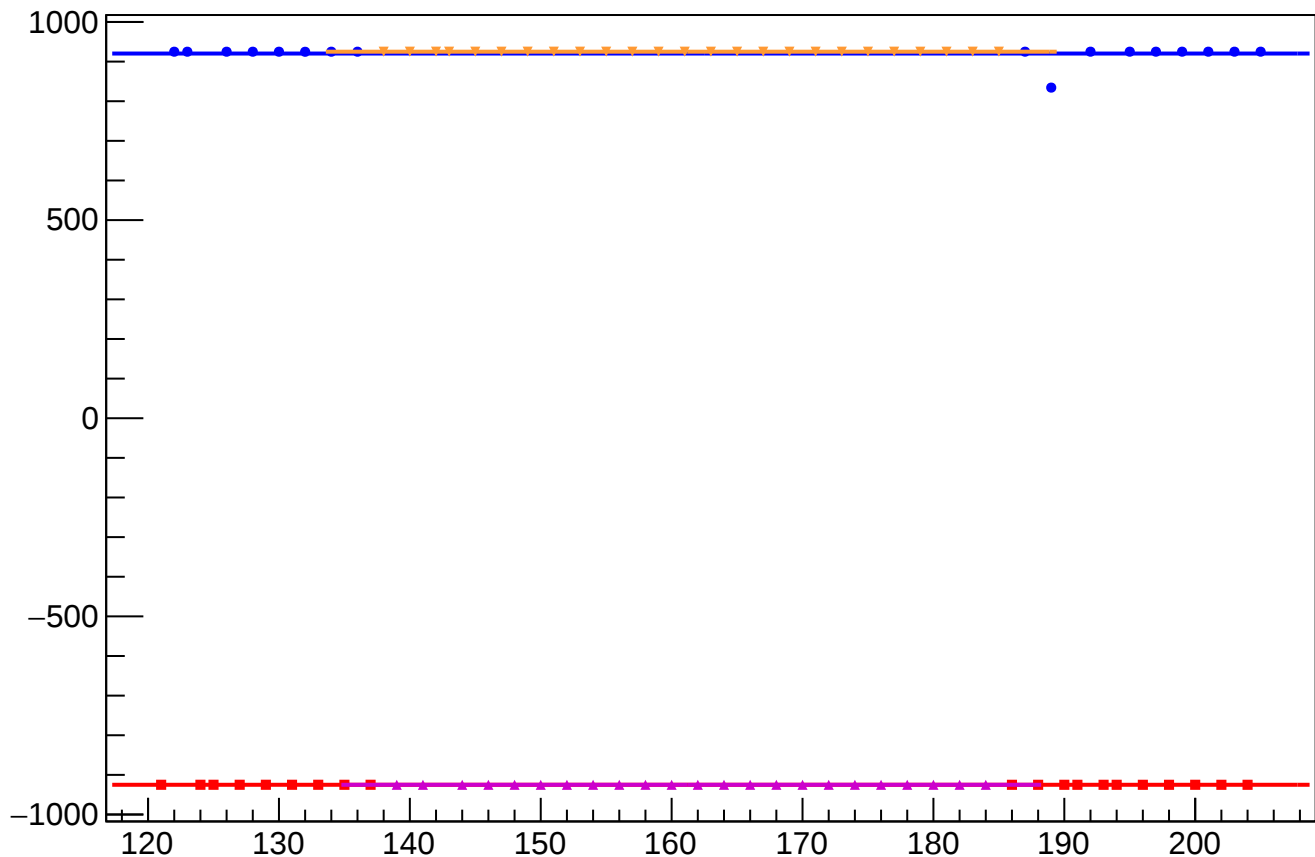
Out: 0.003+/-0.000

χ^2/NDF : 238634170393181942

All: 0.000+/-0.000

χ^2/NDF : 50601179401500

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 920.331+/-0.000

χ^2/NDF : 397527033172369389753433260203966464.0/16

Left Out: 924.983+/-0.000

χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.995+/-0.000

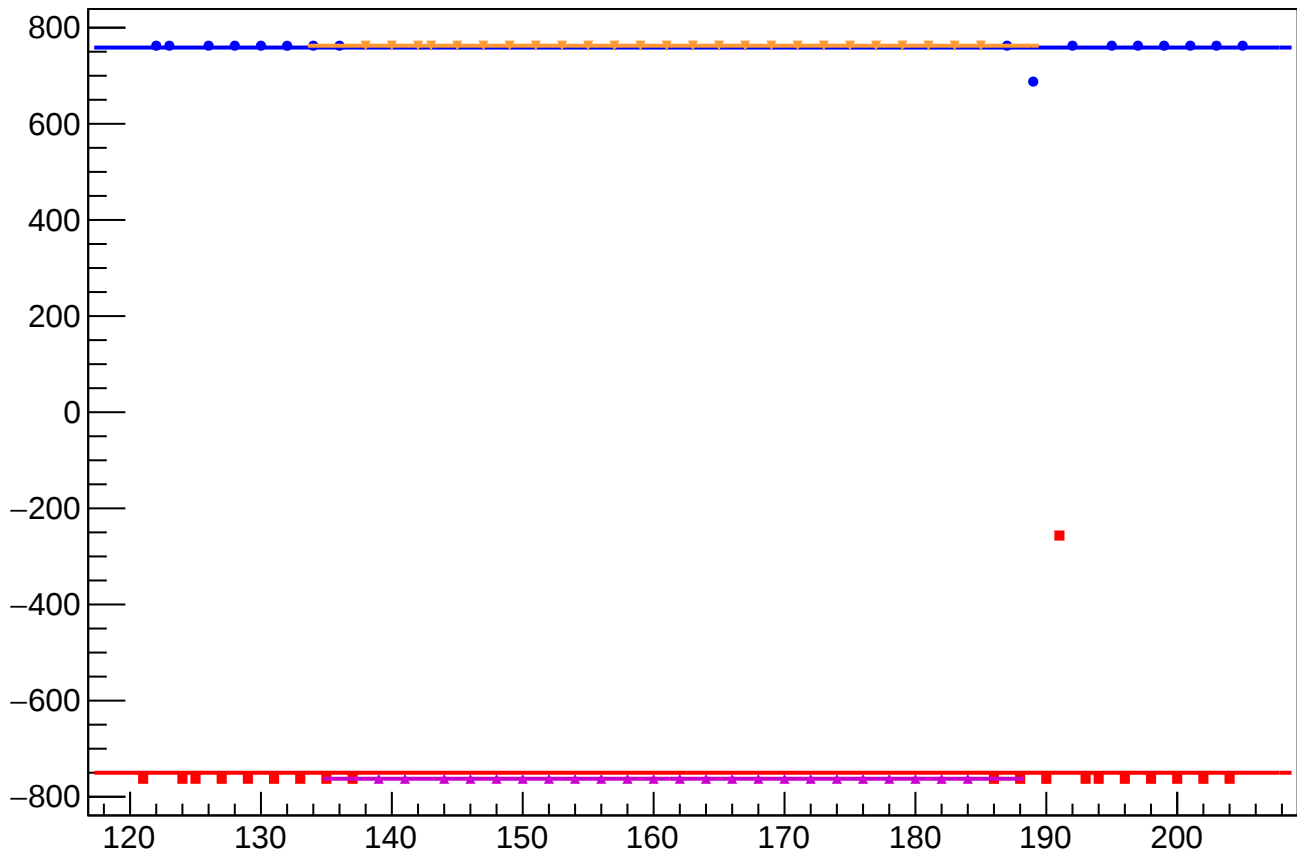
χ^2/NDF : 830059120593427231583634456576.0/19

Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

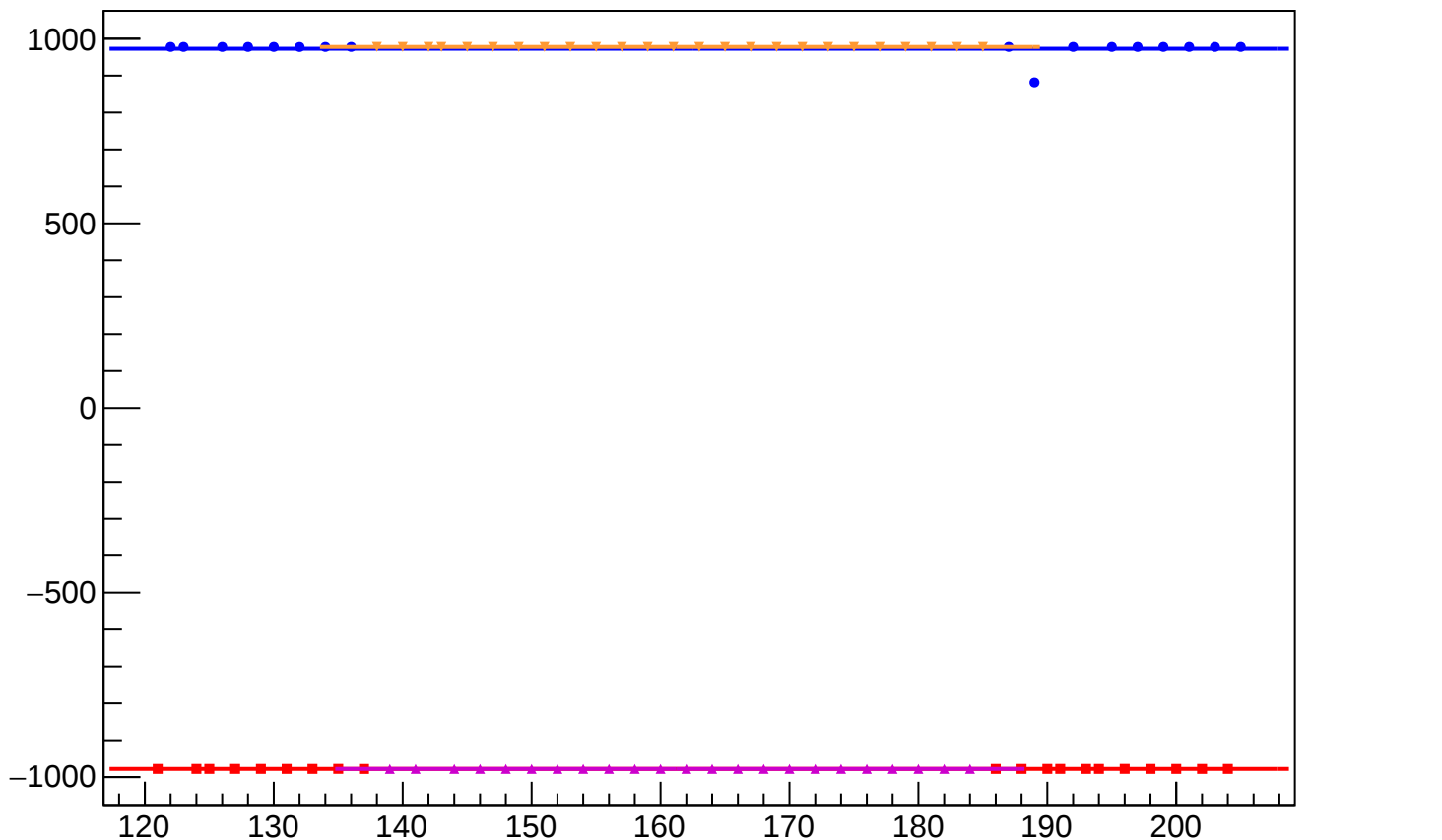
All: 5.452+/-0.000 χ^2/NDF : 49259316544319

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



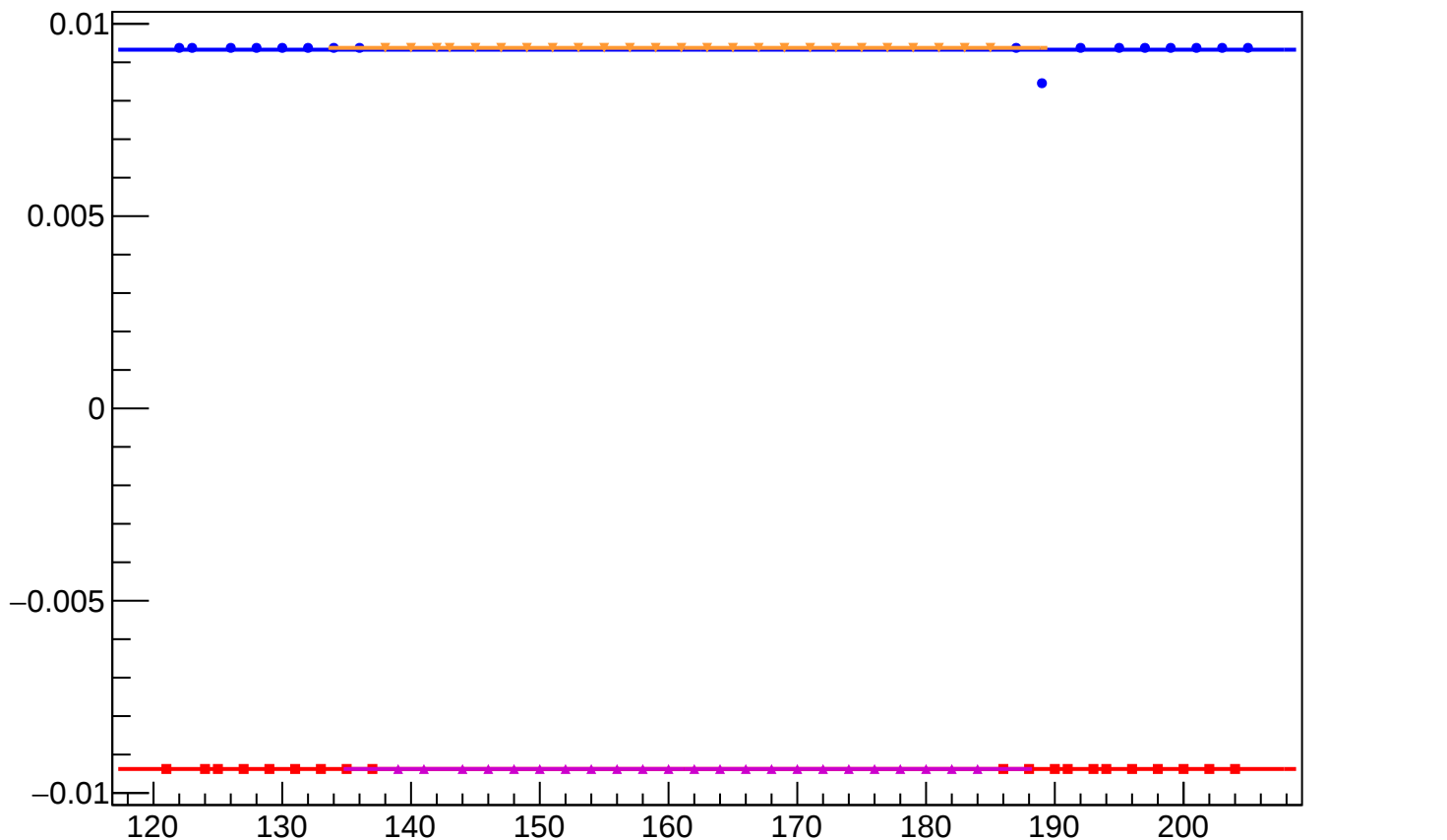
Right In: 758.673+/-0.000 $\chi^2/\text{NDF}: 269953737334408128770343029037858816.0/16$
 Left Out: 762.518+/-0.000 $\chi^2/\text{NDF}: 731741258759628909874415403008.0/24$
 Right Out: -750.035+/-0.000 $\chi^2/\text{NDF}: 6491972428360604502254027752928706560.0/19$
 Left In: -762.519+/-0.000 $\chi^2/\text{NDF}: 629058355419214408155297480704.0/22$
 All: 6.774+/-0.000 $\chi^2/\text{NDF}: 33339388885319$

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 972.836+/-0.000 χ^2/NDF : 444375308328553964050773070172913664.0/16
 Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.753+/-0.000 χ^2/NDF : 1802755731209081229474174861312.0/19
 Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: 5.766+/-0.000 χ^2/NDF : 55038646902530

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40870884796515739232108544.0/16

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/19

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 1788069015695075

In: -0.003+/-0.000

χ^2/NDF : 224378794761094399

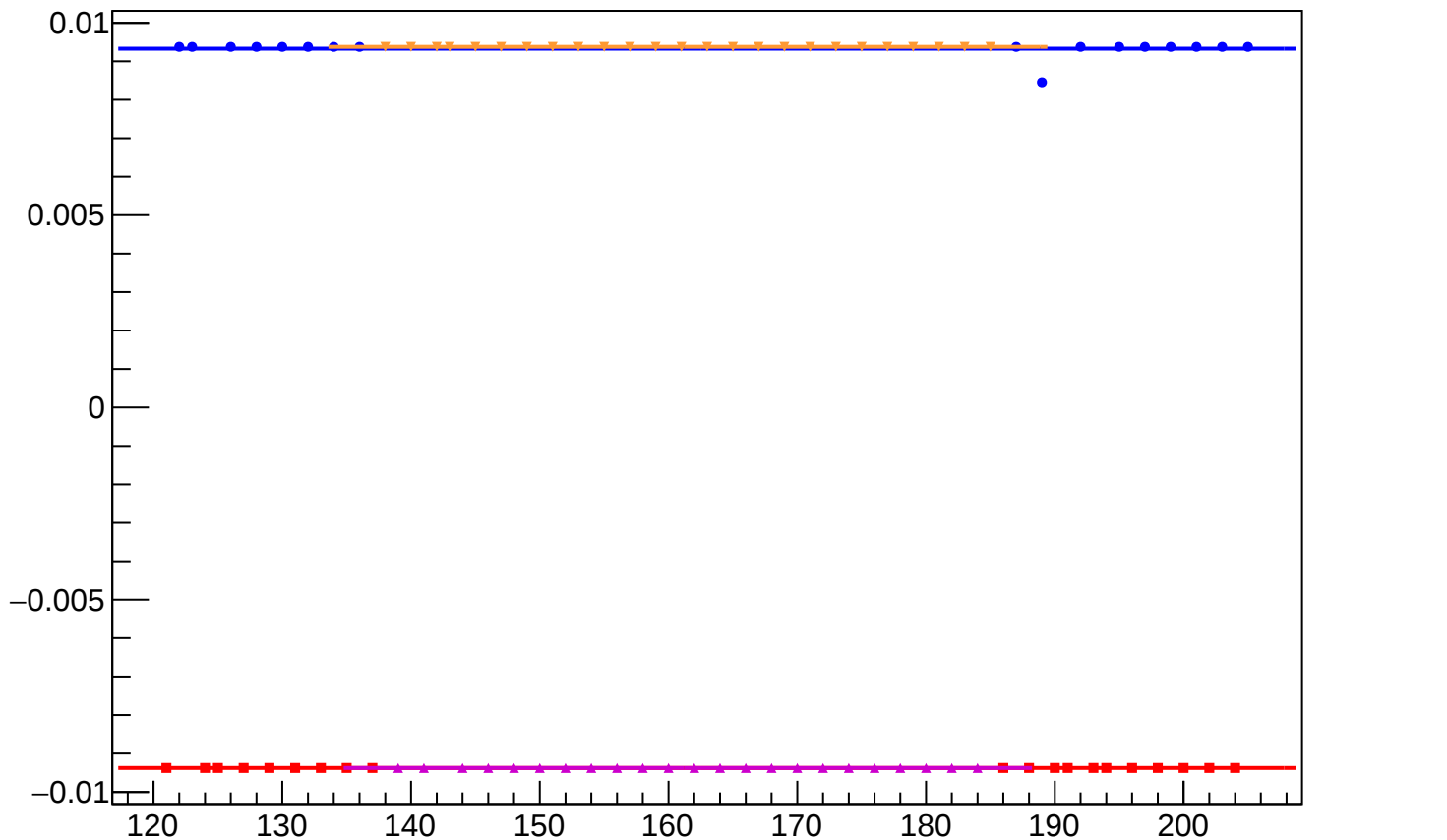
Out: 0.003+/-0.000

χ^2/NDF : 238634170393181942

All: 0.000+/-0.000

χ^2/NDF : 50601179401500

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 40870884796515739232108544.0/16

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/19

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 1788069015695075

In: -0.003+/-0.000

χ^2/NDF : 224378794761094399

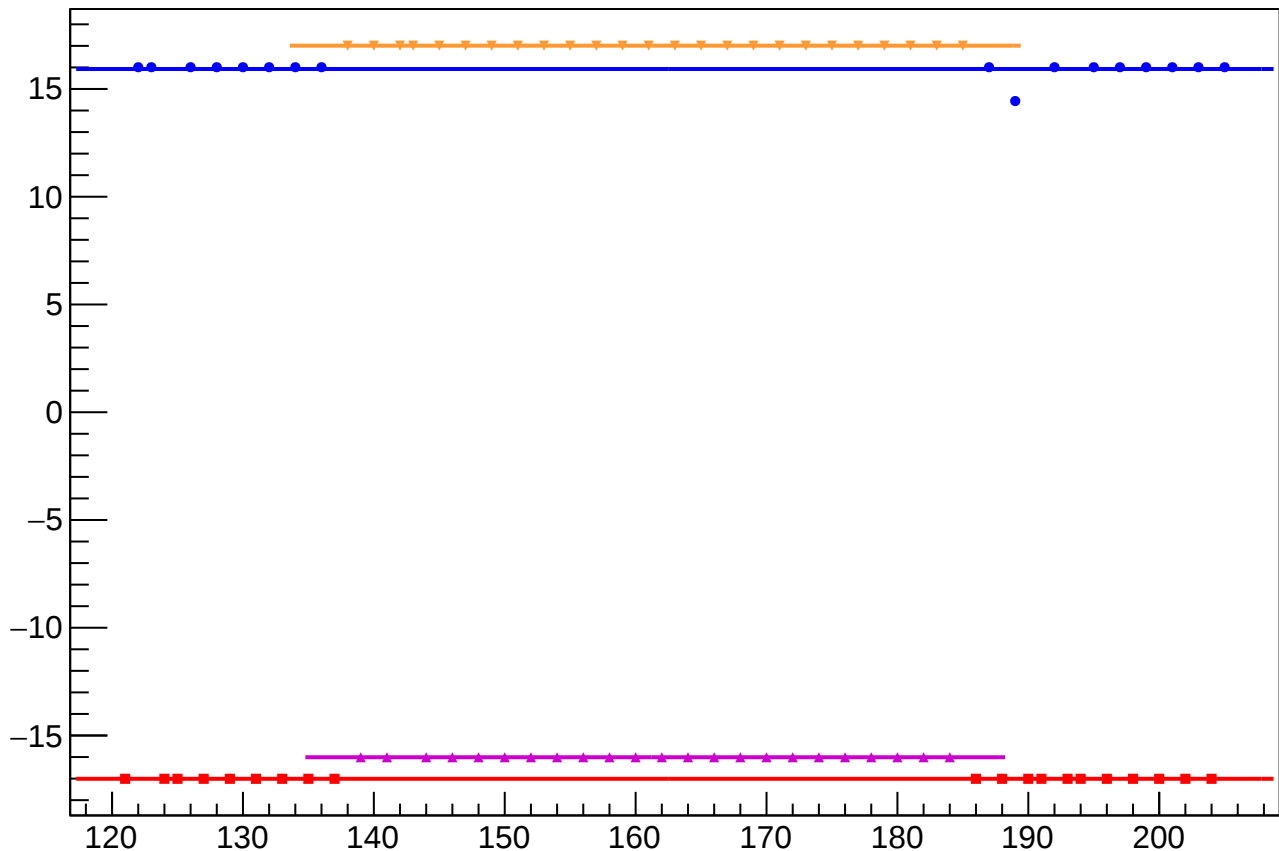
Out: 0.003+/-0.000

χ^2/NDF : 238634170393181942

All: 0.000+/-0.000

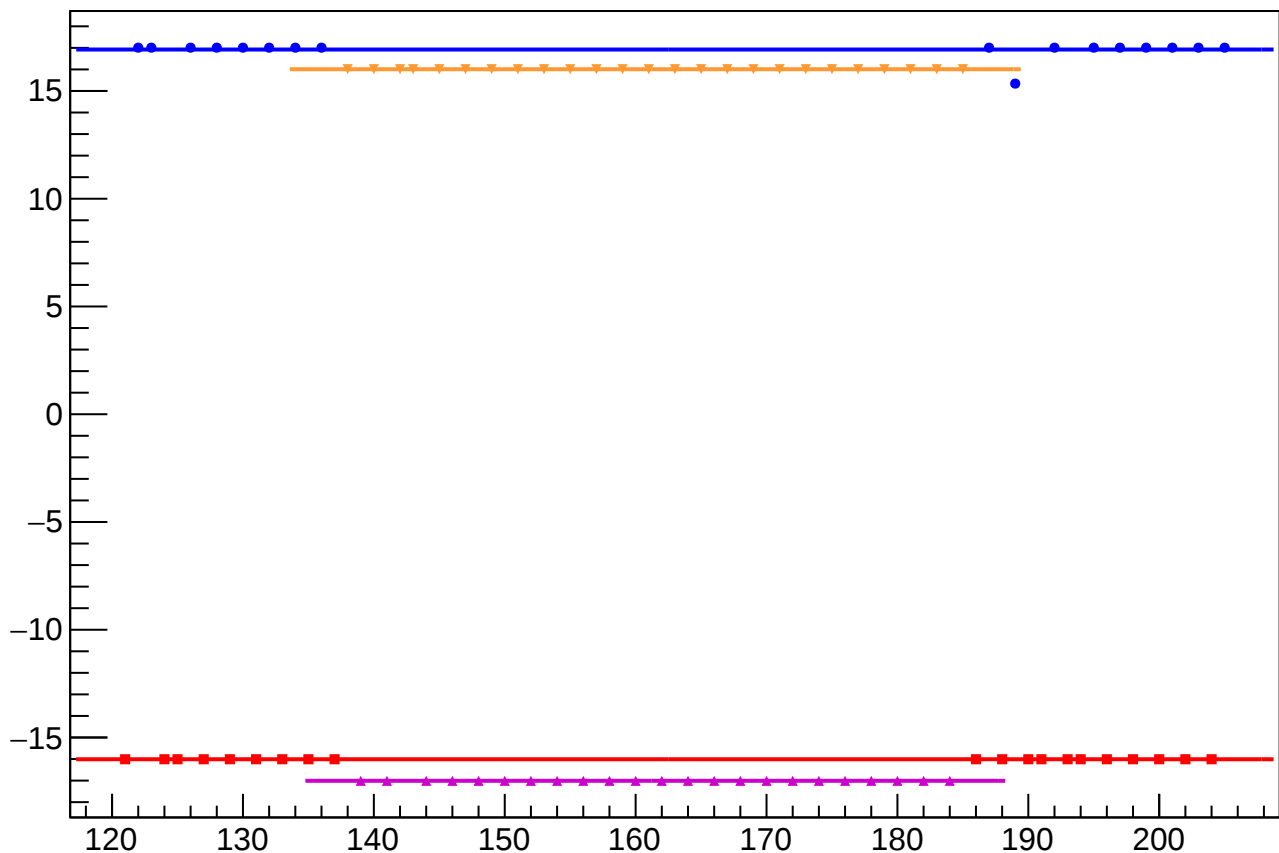
χ^2/NDF : 50601179401500

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



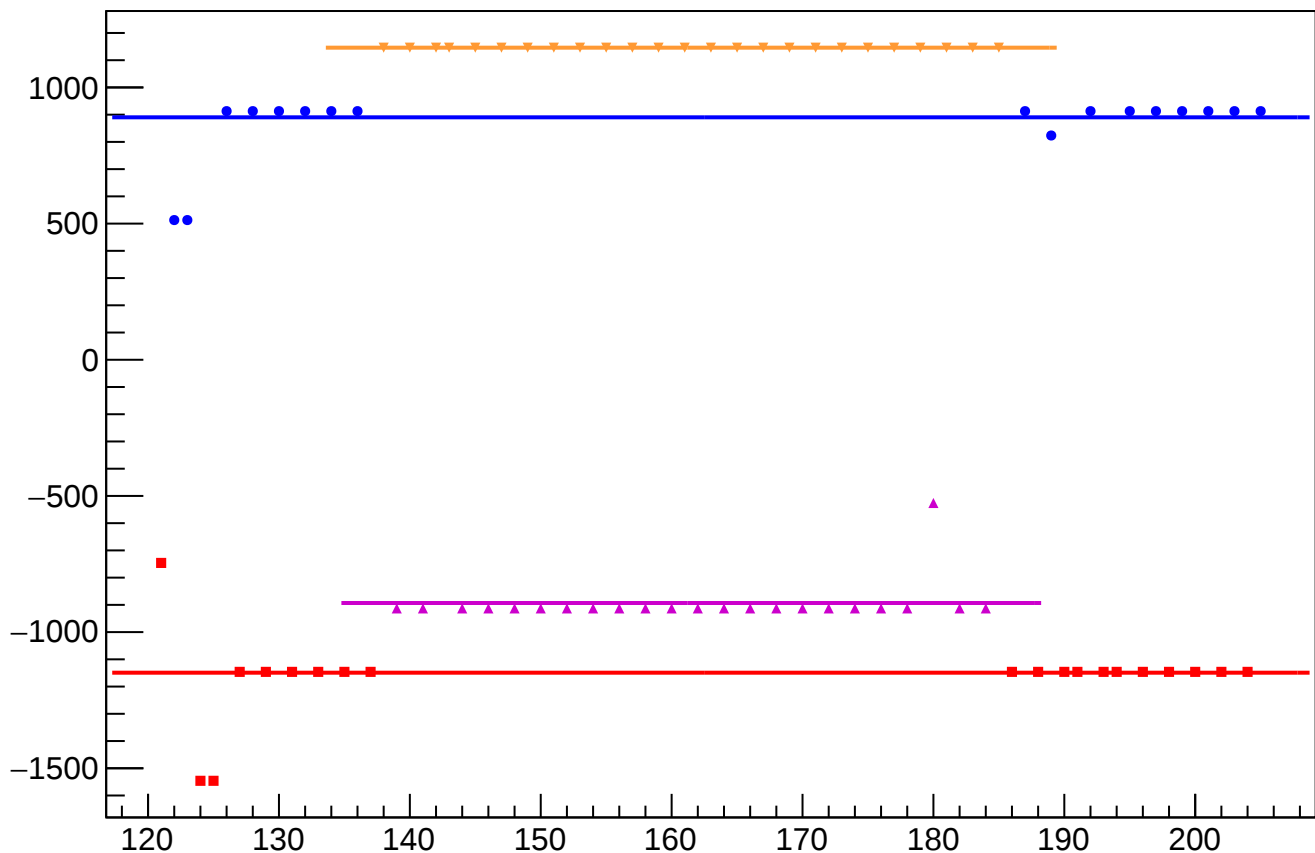
Right In: 15.927+/-0.000 χ^2/NDF : 119010615065831237536789190148096.0/16
 Left Out: 17.009+/-0.000 χ^2/NDF : 26284444608576238643052544.0/24
 Right Out: -17.009+/-0.000 χ^2/NDF : 14644701659590047433752576.0/19
 Left In: -16.009+/-0.000 χ^2/NDF : 127973174512756677672960.0/22
 All: 0.185+/-0.000 χ^2/NDF : 14901257297229

IGL1I00OD16_16_mean vs Slug, Sign Corrected



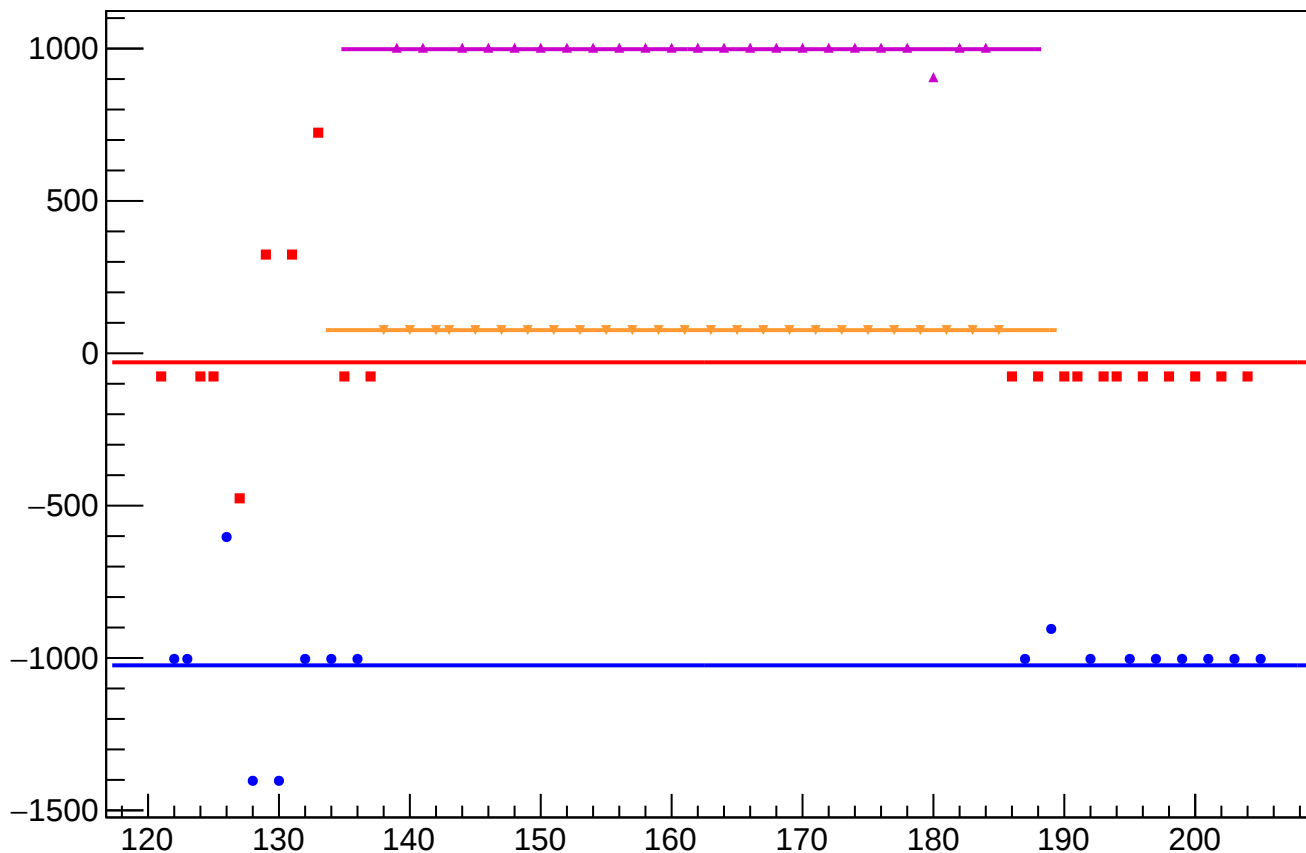
Right In: 16.924+/-0.000	χ^2/NDF : 134538465913163352029190221201408.0/16	Left: 0.042+/-0.000	χ^2/NDF : 994312337700629058
Left Out: 16.009+/-0.000	χ^2/NDF : 89740.8/24	Right: -0.026+/-0.000	χ^2/NDF : 5544247739261809
Right Out: -16.009+/-0.000	χ^2/NDF : 220679.1/19	In: -4.796+/-0.000	χ^2/NDF : 732006800135523149
Left In: -17.009+/-0.000	χ^2/NDF : 115033472633445654986752.0/22	Out: 4.538+/-0.000	χ^2/NDF : 692754283697979460
		All: 0.018+/-0.000	χ^2/NDF : 15487432096037

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 890.270 ± 0.000 $\chi^2/\text{NDF}: 7095905999441653003782205638275235840.0/16$
 Left Out: 1146.011 ± 0.000 $\chi^2/\text{NDF}: 8041760976861450519237885952.0/24$
 Right Out: -1149.049 ± 0.000 $\chi^2/\text{NDF}: 13750941573780521308669851781560270848.0/19$
 Left In: -893.116 ± 0.000 $\chi^2/\text{NDF}: 13219826761707982974212661987208331264.0/22$
 All: 42.576 ± 0.000 $\chi^2/\text{NDF}: 6153973554057$

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1024.122 ± 0.000 χ^2/NDF : 23249302329105149359209778739723370496.0/16
 Left Out: 76.011 ± 0.000 χ^2/NDF : 11003263624957134120836661248.0/24
 Right Out: -29.667 ± 0.000 χ^2/NDF : 44778182312095896613536158351131410432.0/19
 Left In: 998.020 ± 0.000 χ^2/NDF : 826231736084035689068445378231140352.0/22
 All: 156.824 ± 0.000 χ^2/NDF : 278430513903