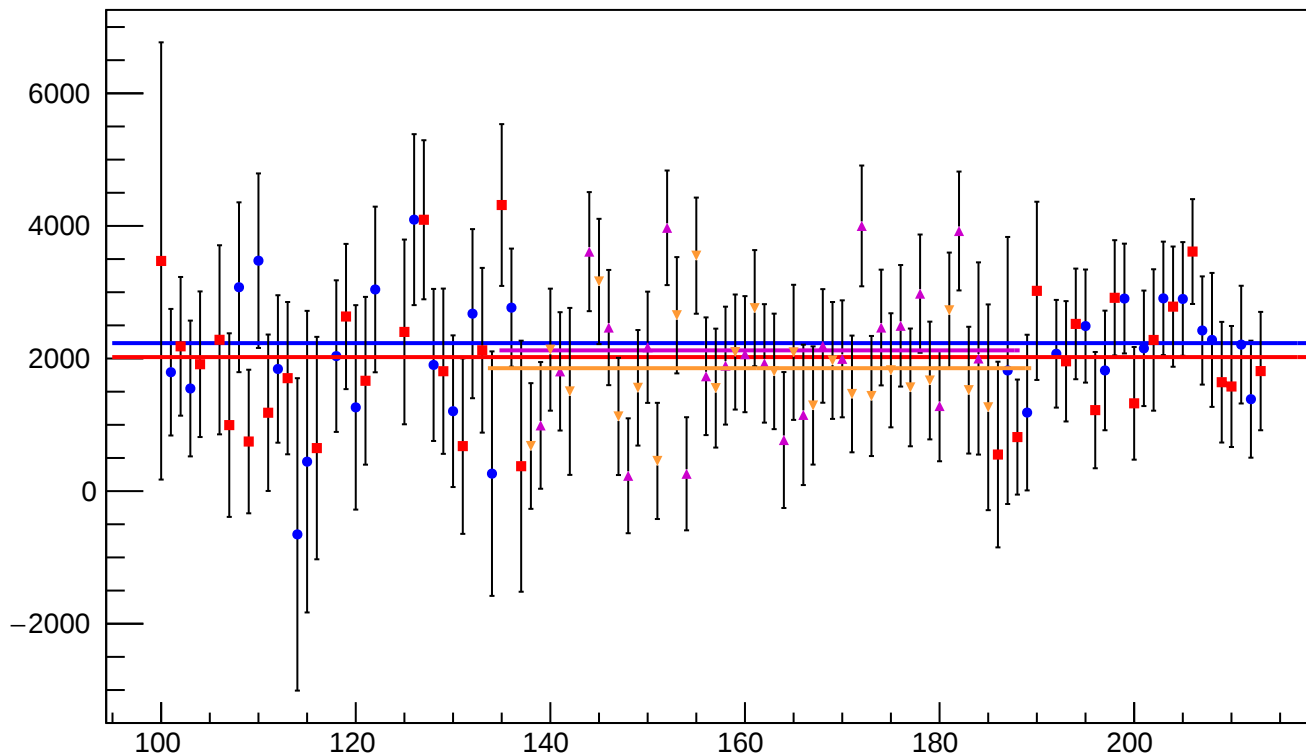


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2232.280+/-195.477

Left Out: 1854.267+/-187.405

Right Out: 2021.592+/-190.957

Left In: 2123.138+/-188.684

χ^2/NDF : 13.7/28

χ^2/NDF : 15.1/23

χ^2/NDF : 24.0/31

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2124.472+/-136.597

In: 2175.780+/-135.758

Out: 1936.359+/-133.754

All: 2054.289+/-95.279

χ^2/NDF : 48.1/46

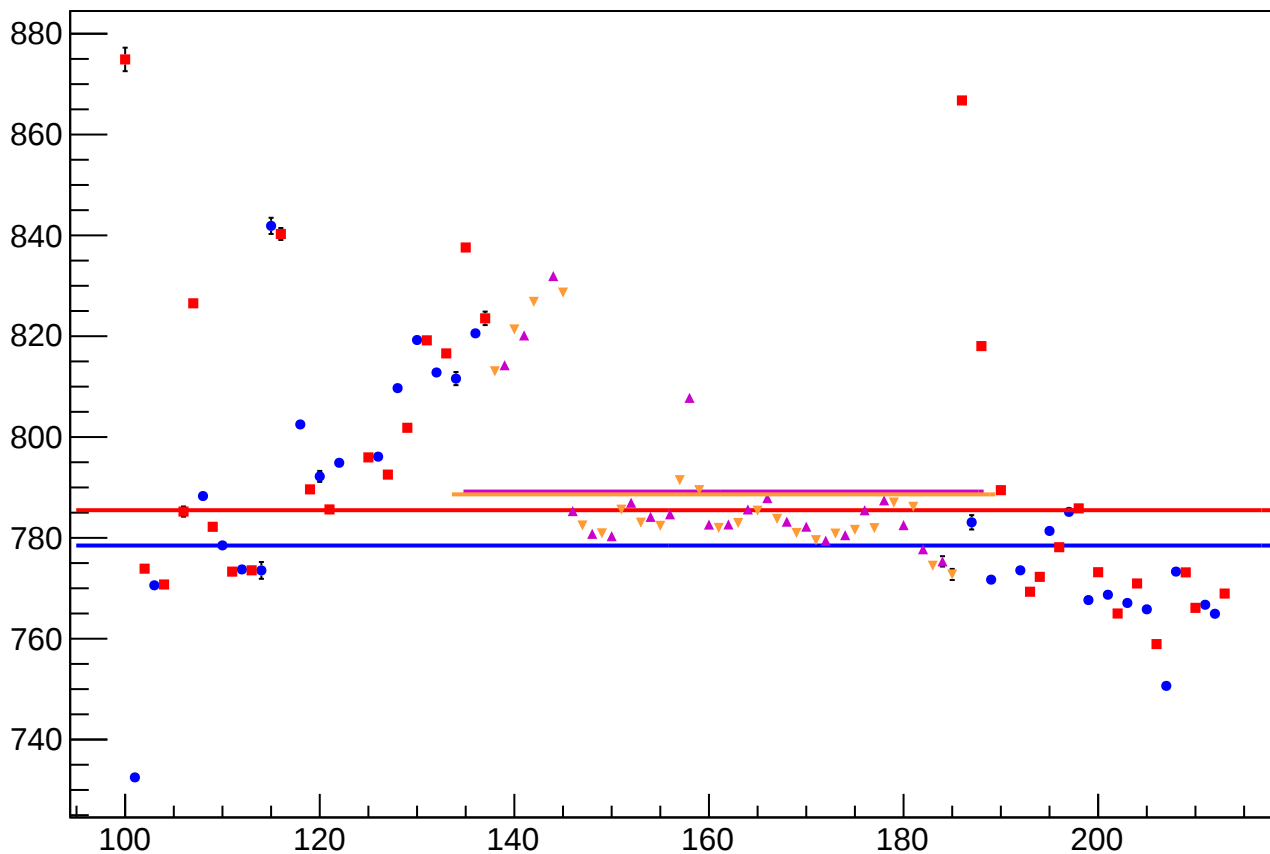
χ^2/NDF : 38.3/60

χ^2/NDF : 45.9/51

χ^2/NDF : 39.5/55

χ^2/NDF : 87.0/107

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 778.481 $\pm$ 0.138 χ^2 /NDF: 23682.6/28

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

Right Out: 785.490 $\pm$ 0.135 χ^2 /NDF: 30702.1/31

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

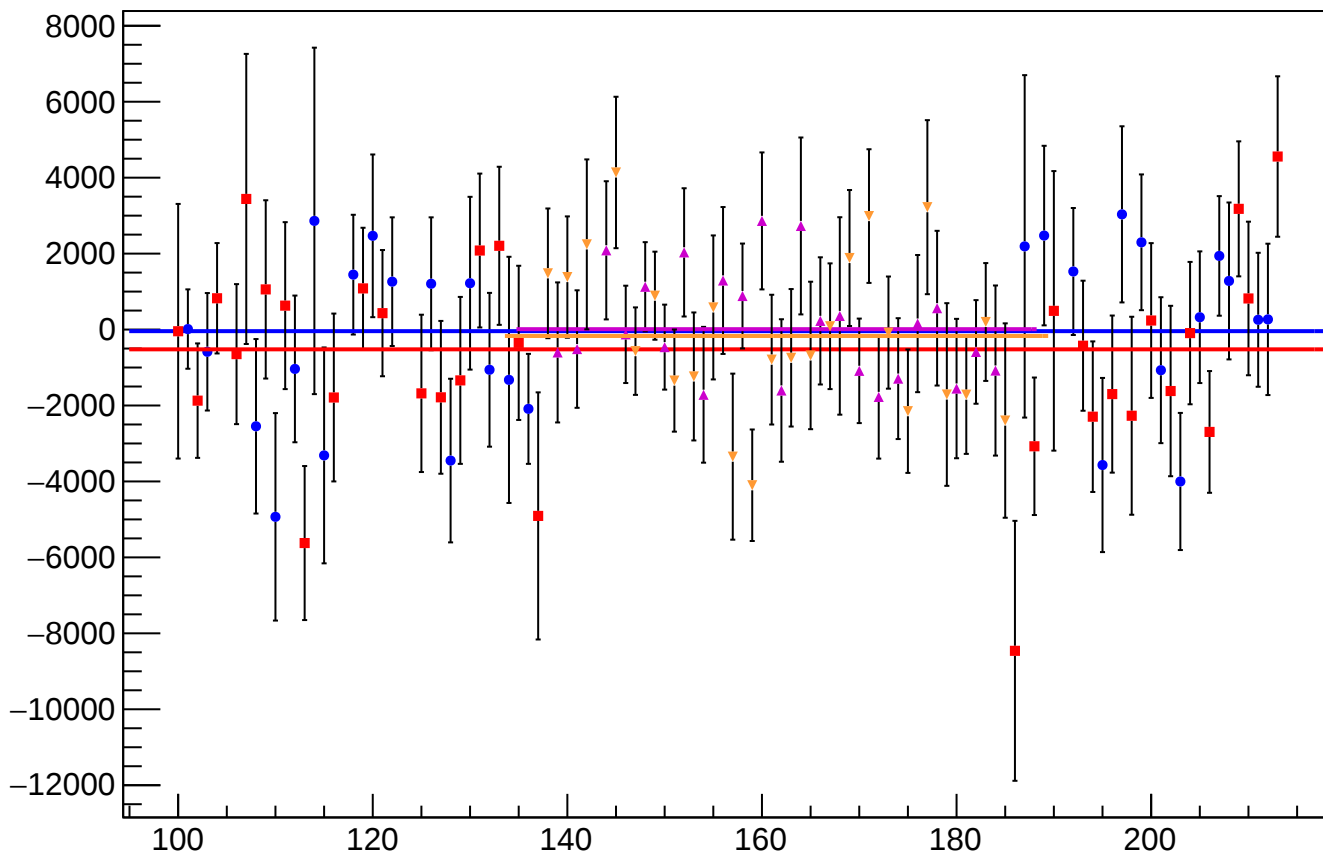
Right: 782.067 $\pm$ 0.097 χ^2 /NDF: 55700.2/60

In: 784.022 $\pm$ 0.096 χ^2 /NDF:38130.1/51

Out: 787.089 $\pm$ 0.095 χ^2 /NDF:42455.6/55

All: 785.578 $\pm$ 0.067 χ^2 /NDF: 81103.7/107

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -41.945 $\pm$ 353.306 χ^2/NDF : 30.4/28

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

Right Out: -521.102 $\pm$ 358.233 χ^2/NDF : 39.4/31

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

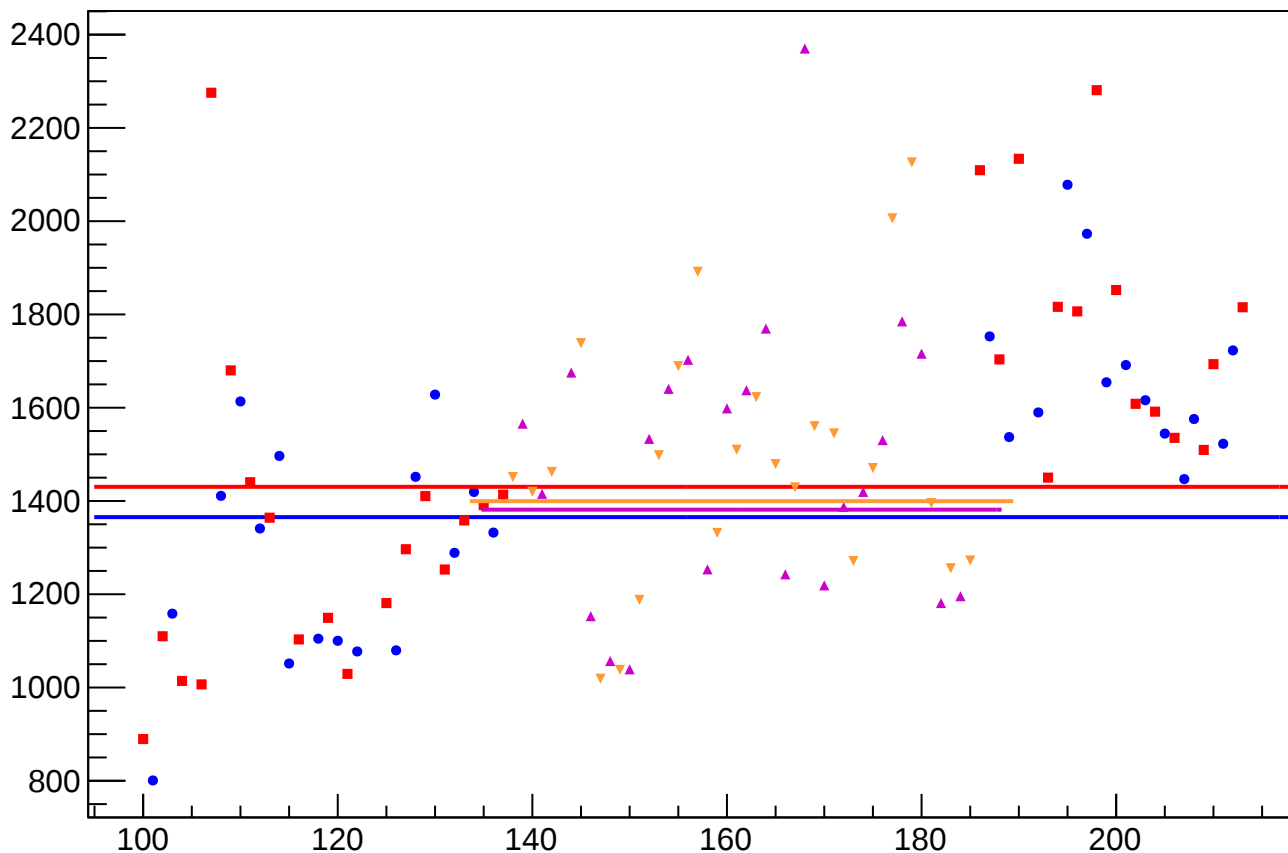
Right: -278.206 $\pm$ 251.549 χ^2/NDF : 70.6/60

In: -14.760 $\pm$ 244.162 χ^2/NDF : 44.6/51

Out: -336.155 $\pm$ 246.759 χ^2/NDF : 69.9/55

All: -173.757 $\pm$ 173.560 χ^2/NDF : 115.3/107

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1365.358 $\pm$ 0.250 χ^2 /NDF: 1561889.0/28

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

Right Out: 1430.389 $\pm$ 0.253 χ^2 /NDF: 1591718.0/31

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

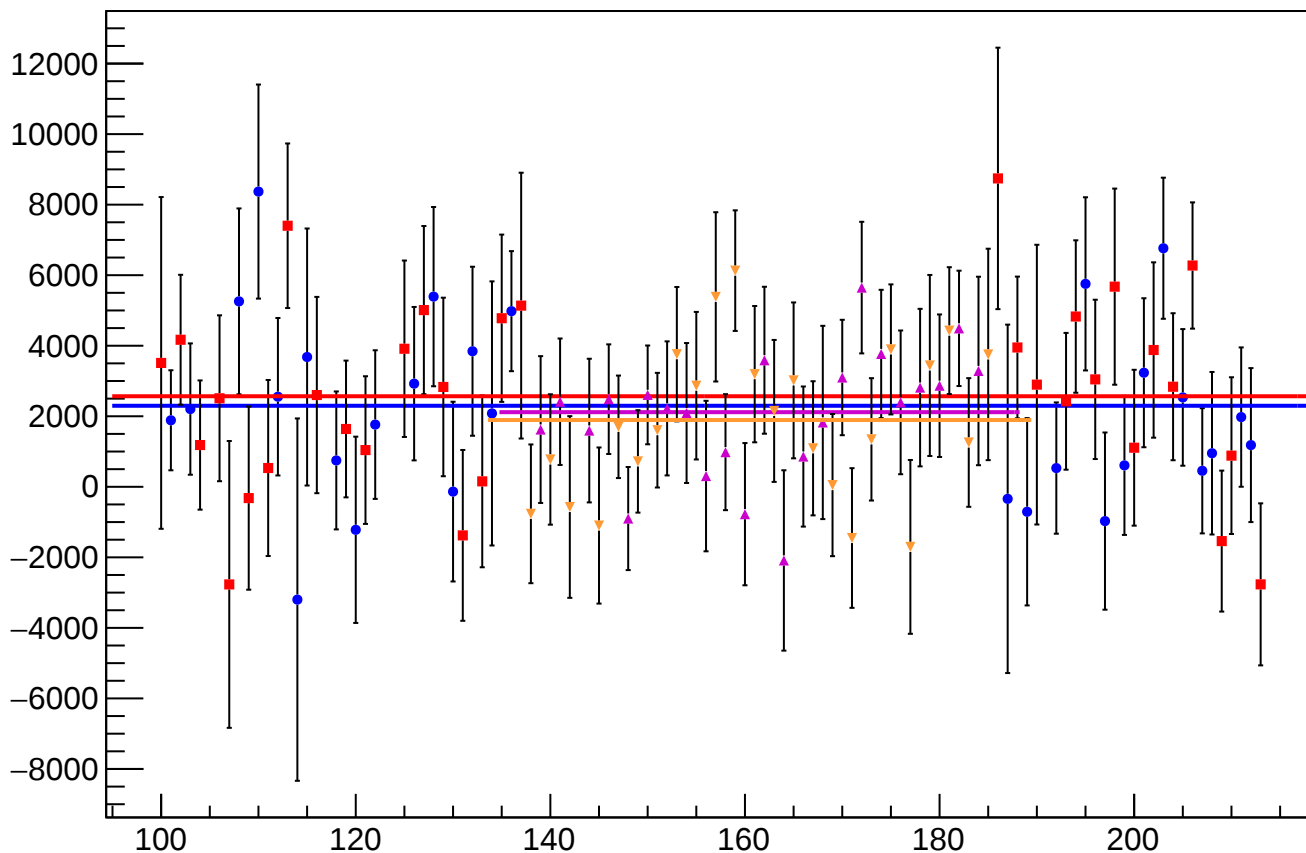
Right: 1397.423 $\pm$ 0.178 χ^2 /NDF: 3187017.7/60

In: 1373.717 $\pm$ 0.173 χ^2 /NDF:2840520.2/51

Out: 1414.202 $\pm$ 0.174 χ^2 /NDF:2718613.7/55

All: 1393.745 $\pm$ 0.123 χ^2 /NDF: 5586336.5/100

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2297.574 $\pm$ 413.141 χ^2 /NDF: 28.3/28

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

Right Out: 2567.655 $\pm$ 414.677 χ^2 /NDF: 37.2/31

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

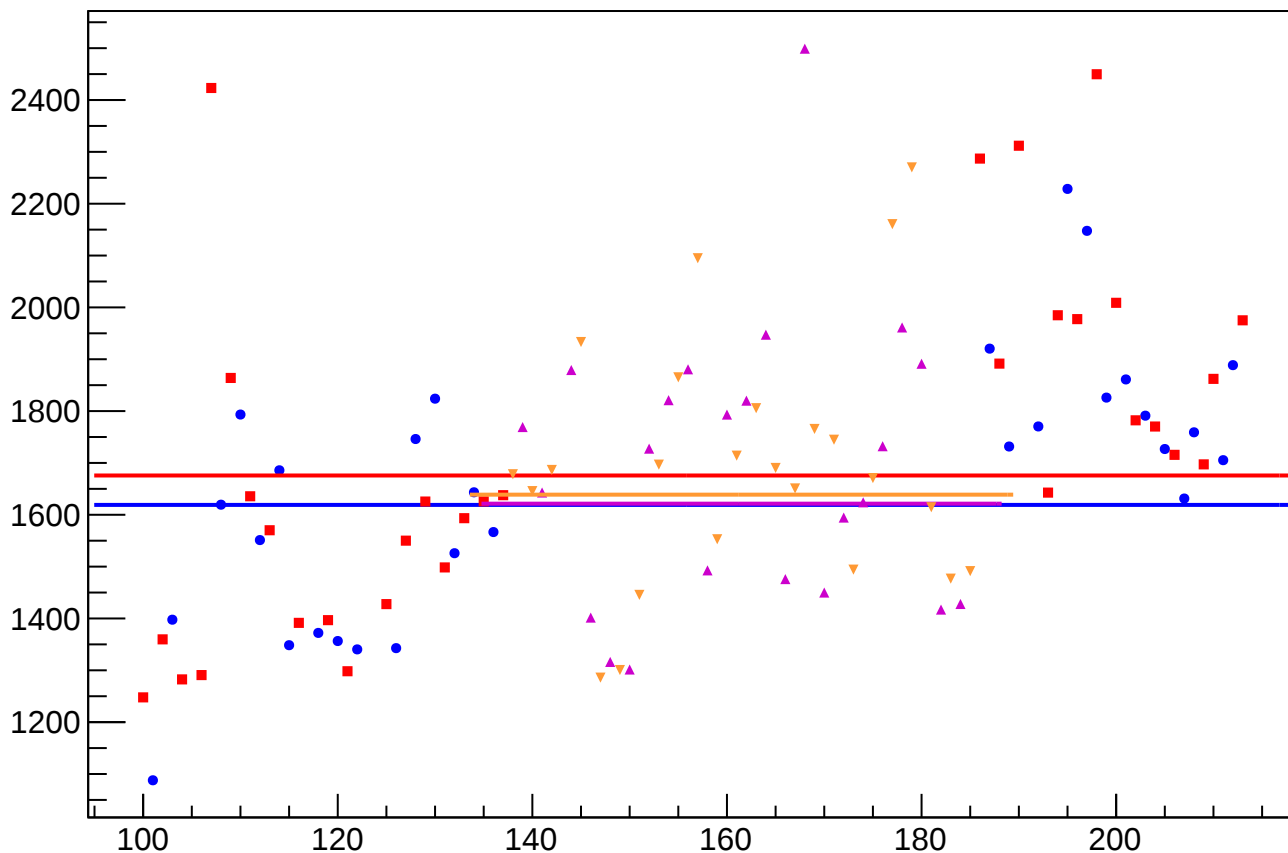
Right: 2432.113 $\pm$ 292.677 χ^2 /NDF: 65.7/60

In: 2202.312 $\pm$ 284.746 χ^2 /NDF:47.2/51

Out: 2214.082 $\pm$ 285.964 χ^2 /NDF:64.5/55

All: 2208.172 $\pm$ 201.775 χ^2 /NDF: 111.7/107

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1619.038 $\pm$ 0.292 χ^2 /NDF: 817620.1/28

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

Right Out: 1675.777 $\pm$ 0.293 χ^2 /NDF: 934882.1/31

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

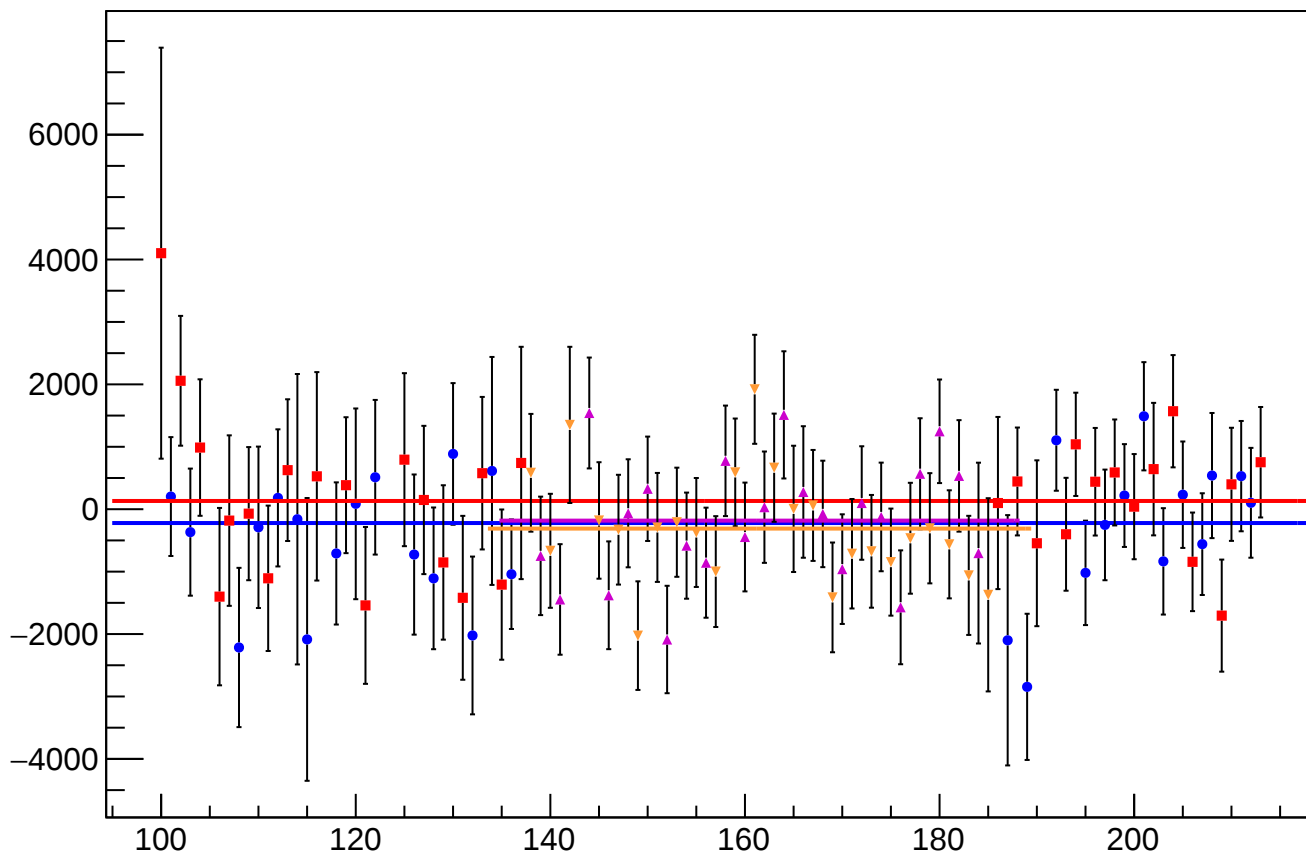
Right: 1647.302 $\pm$ 0.207 χ^2 /NDF: 1771292.8/60

In: 1620.287 $\pm$ 0.201 χ^2 /NDF: 1592964.9/51

Out: 1656.388 $\pm$ 0.202 χ^2 /NDF: 1615125.9/55

All: 1638.260 $\pm$ 0.143 χ^2 /NDF: 3224096.0/100

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -221.413+/-194.009 χ^2/NDF : 25.0/28

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

Right Out: 131.962+/-189.154 χ^2/NDF : 25.1/31

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

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

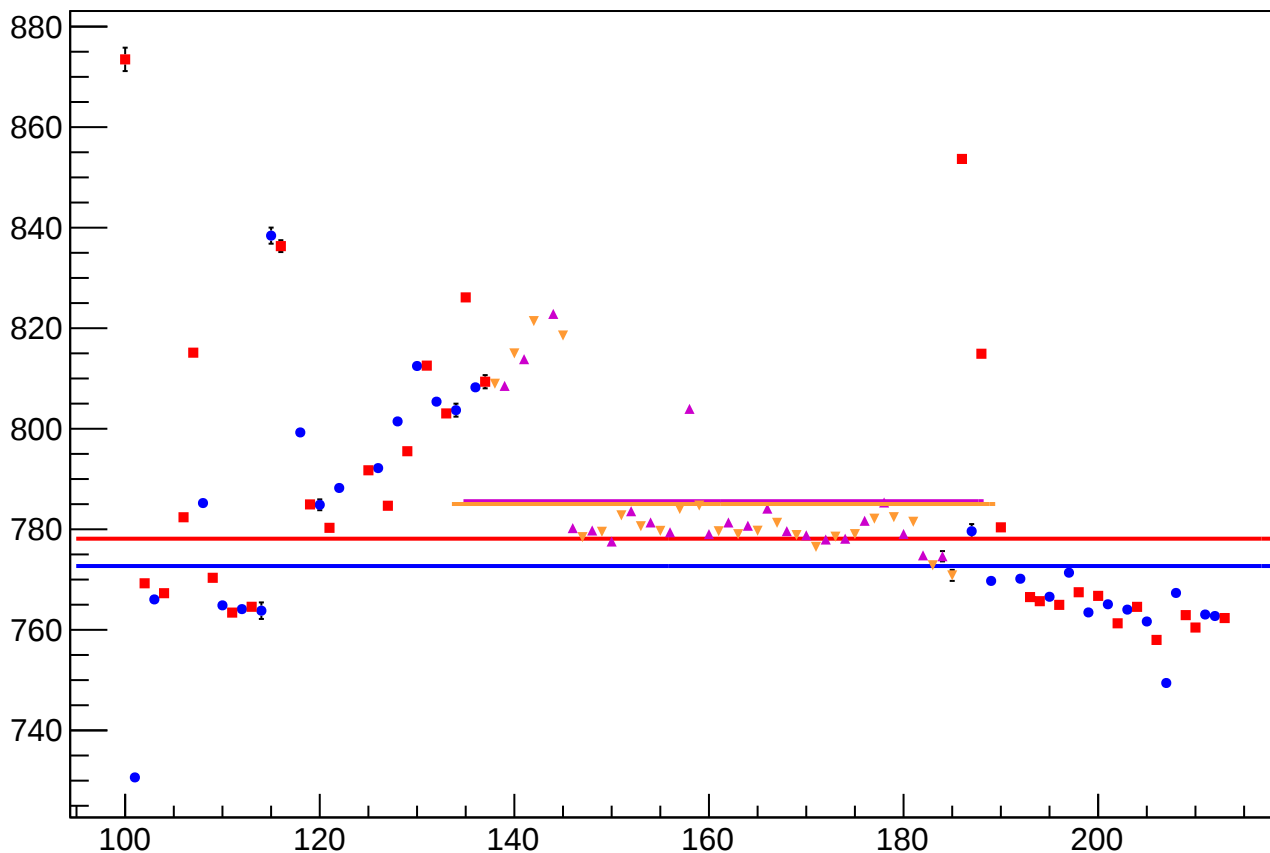
Right: -40.249+/-135.436 χ^2/NDF : 51.8/60

In: -201.530+/-134.943 χ^2/NDF :51.1/51

Out: -92.382+/-132.817 χ^2/NDF :48.0/55

All: -146.089+/-94.659 χ^2/NDF : 99.4/107

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 772.693 $\pm$ 0.137 χ^2 /NDF: 20318.1/28

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

Right Out: 778.132 $\pm$ 0.134 χ^2 /NDF: 29120.8/31

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

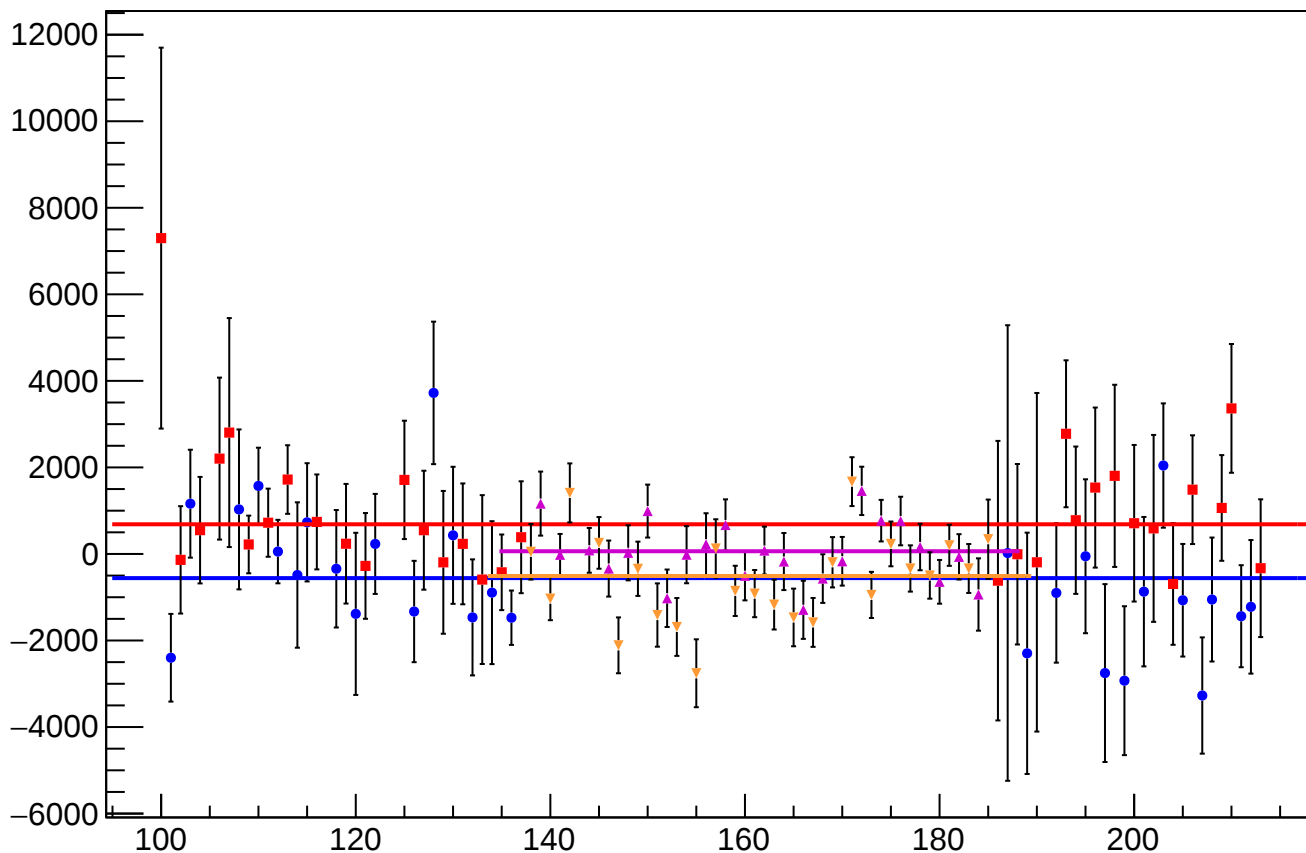
Right: 775.482 $\pm$ 0.096 χ^2 /NDF: 50244.6/60

In: 779.352 $\pm$ 0.095 χ^2 /NDF:34255.5/51

Out: 781.629 $\pm$ 0.094 χ^2 /NDF:39837.3/55

All: 780.509 $\pm$ 0.067 χ^2 /NDF: 74382.2/107

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -558.245 $\pm$ 239.037 χ^2 /NDF: 36.2/28

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

Right Out: 685.824 $\pm$ 234.641 χ^2 /NDF: 17.4/31

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

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

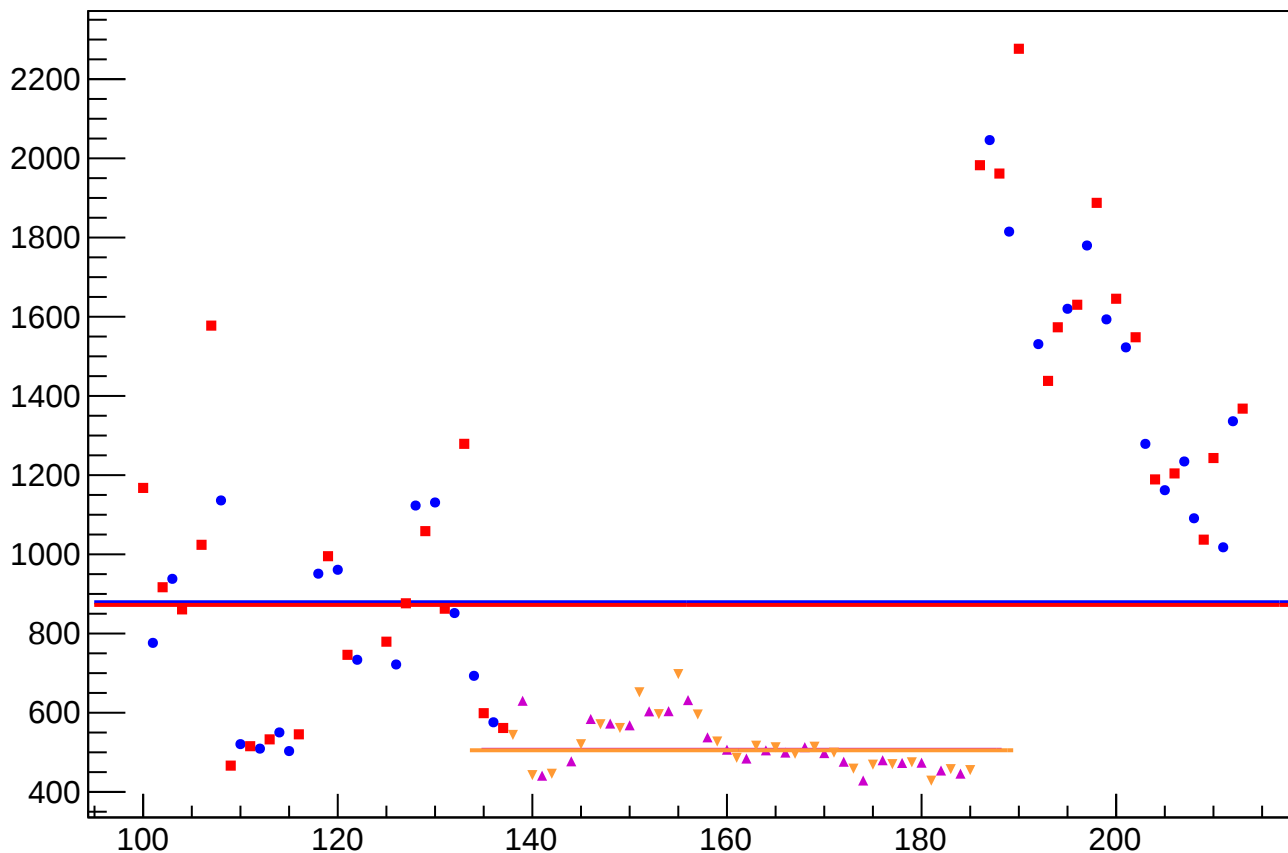
Right: 75.334 $\pm$ 167.449 χ^2 /NDF: 67.4/60

In: -65.645 $\pm$ 108.697 χ^2 /NDF:70.4/51

Out: -257.631 $\pm$ 107.676 χ^2 /NDF:98.5/55

All: -162.544 $\pm$ 76.497 χ^2 /NDF: 170.4/107

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 878.978+/-0.169 χ^2/NDF : 4433898.5/28

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

Right Out: 872.329+/-0.166 χ^2/NDF : 5893645.0/31

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

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

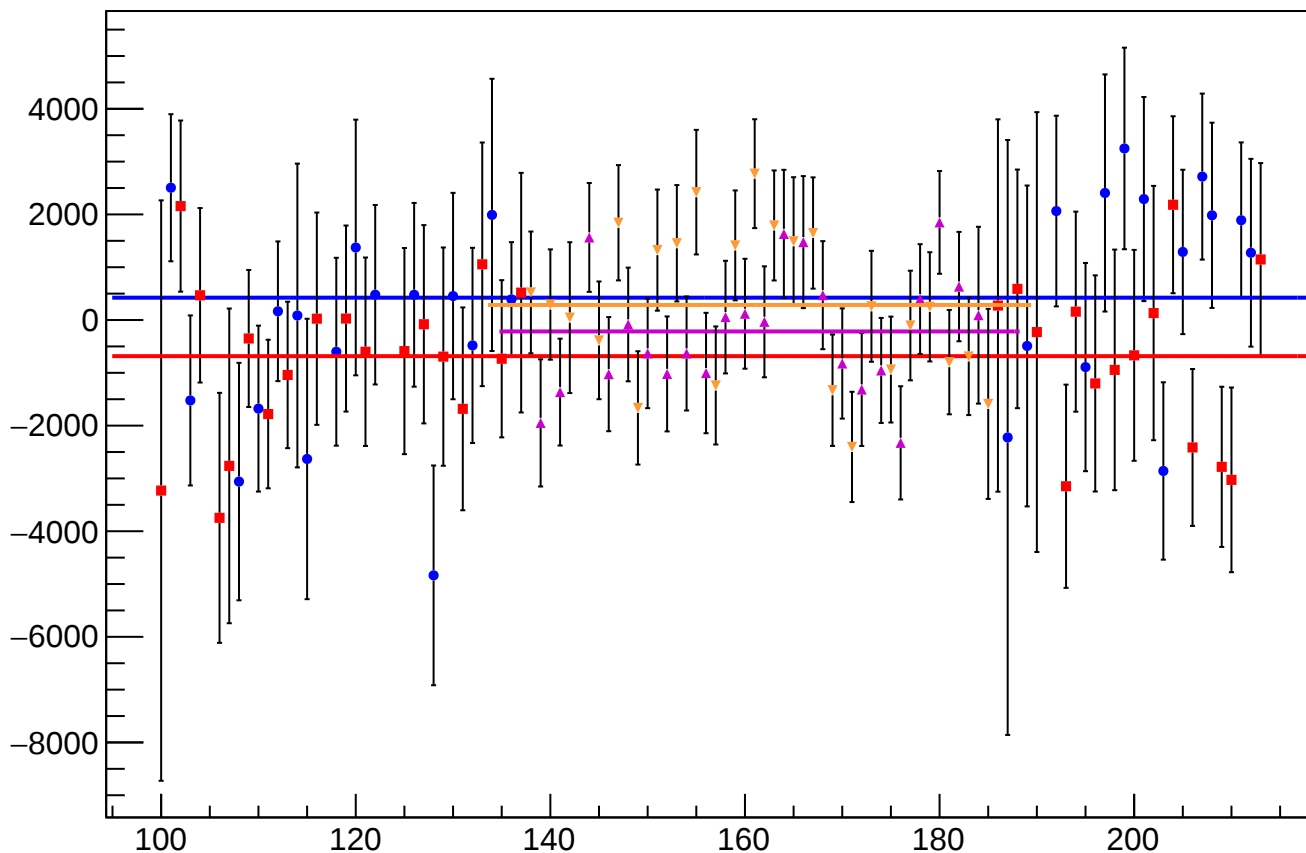
Right: 875.592+/-0.118 χ^2/NDF : 10328331.6/60

In: 583.426+/-0.077 χ^2/NDF : 8724756.0/51

Out: 582.529+/-0.076 χ^2/NDF : 10243944.8/55

All: 582.973+/-0.054 χ^2/NDF : 18968769.6/10

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 423.017 $\pm$ 333.225 χ^2 /NDF: 30.5/28

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

Right Out: -684.544 $\pm$ 332.124 χ^2 /NDF: 19.6/31

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

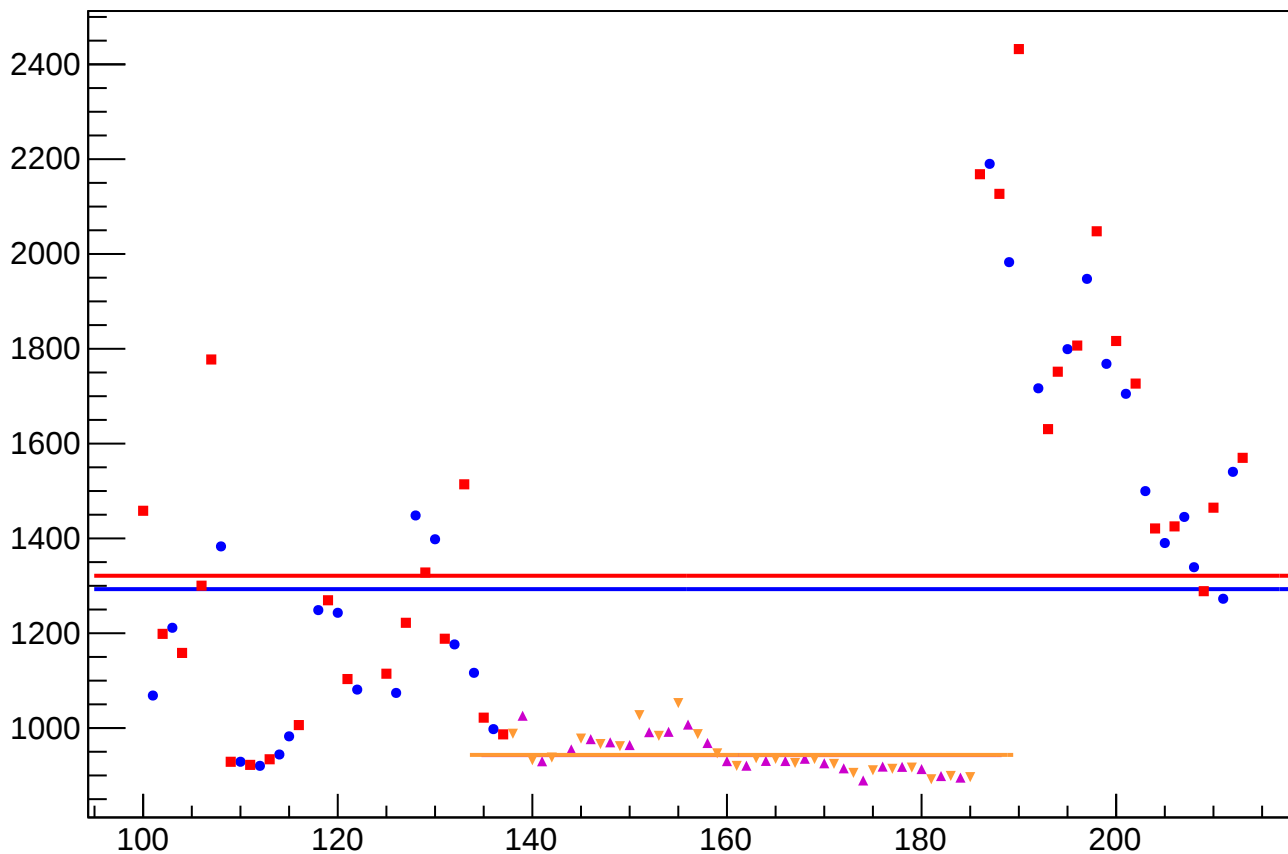
Right: -132.597 $\pm$ 235.236 χ^2 /NDF: 55.7/60

In: -15.242 $\pm$ 186.813 χ^2 /NDF:57.4/51

Out: -18.738 $\pm$ 185.925 χ^2 /NDF:63.7/55

All: -16.999 $\pm$ 131.782 χ^2 /NDF: 121.2/107

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1293.029+/-0.236 χ^2/NDF : 1508579.7/28

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

Right Out: 1321.258+/-0.235 χ^2/NDF : 2065960.4/31

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

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

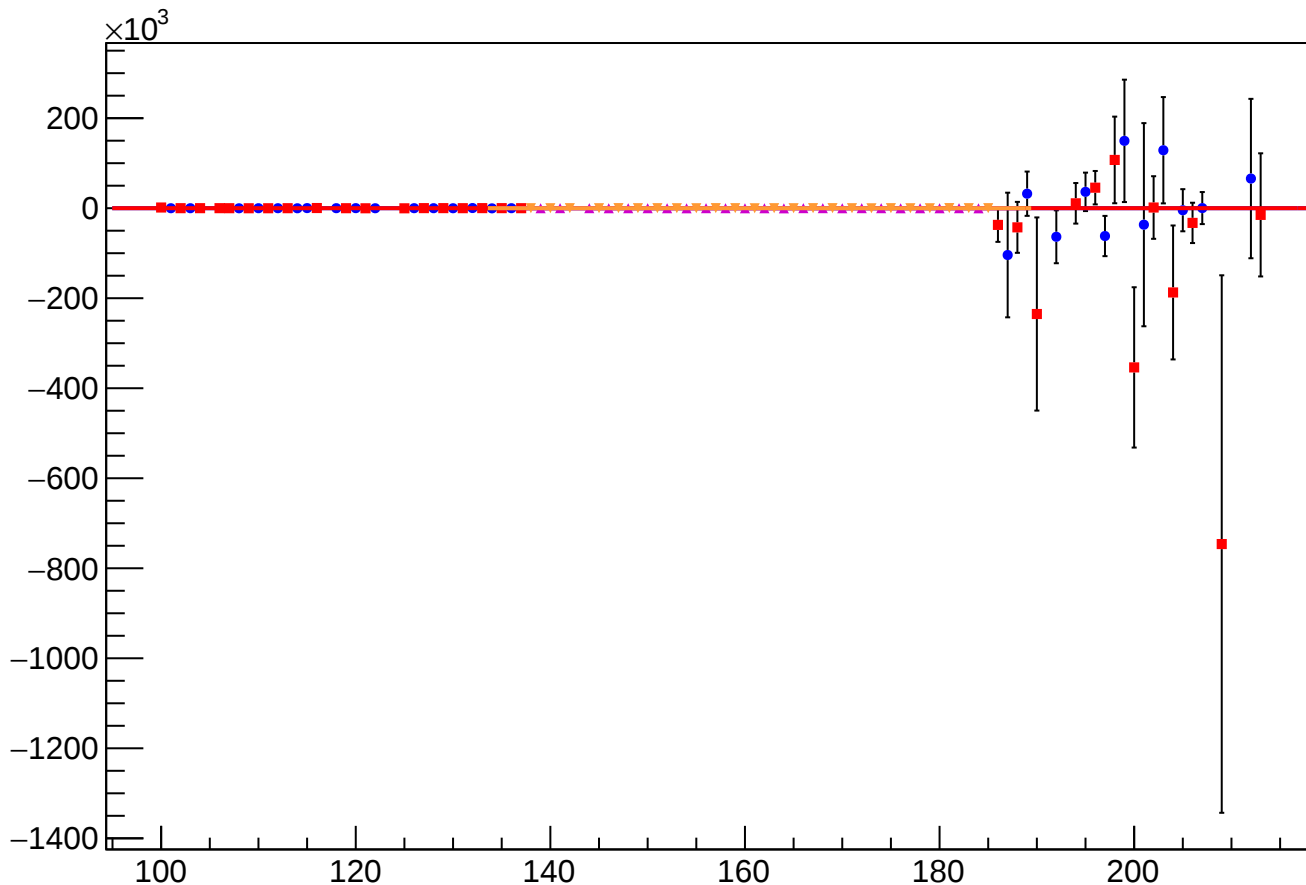
Right: 1307.190+/-0.166 χ^2/NDF : 3581740.2/60

In: 1052.962+/-0.132 χ^2/NDF : 3070824.9/51

Out: 1061.780+/-0.131 χ^2/NDF : 3904257.4/55

All: 1057.392+/-0.093 χ^2/NDF : 6977320.6/10

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.555 ± 30.032 χ^2/NDF : 23.3/26

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

Right Out: 31.724 ± 30.492 χ^2/NDF : 30.0/29

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

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

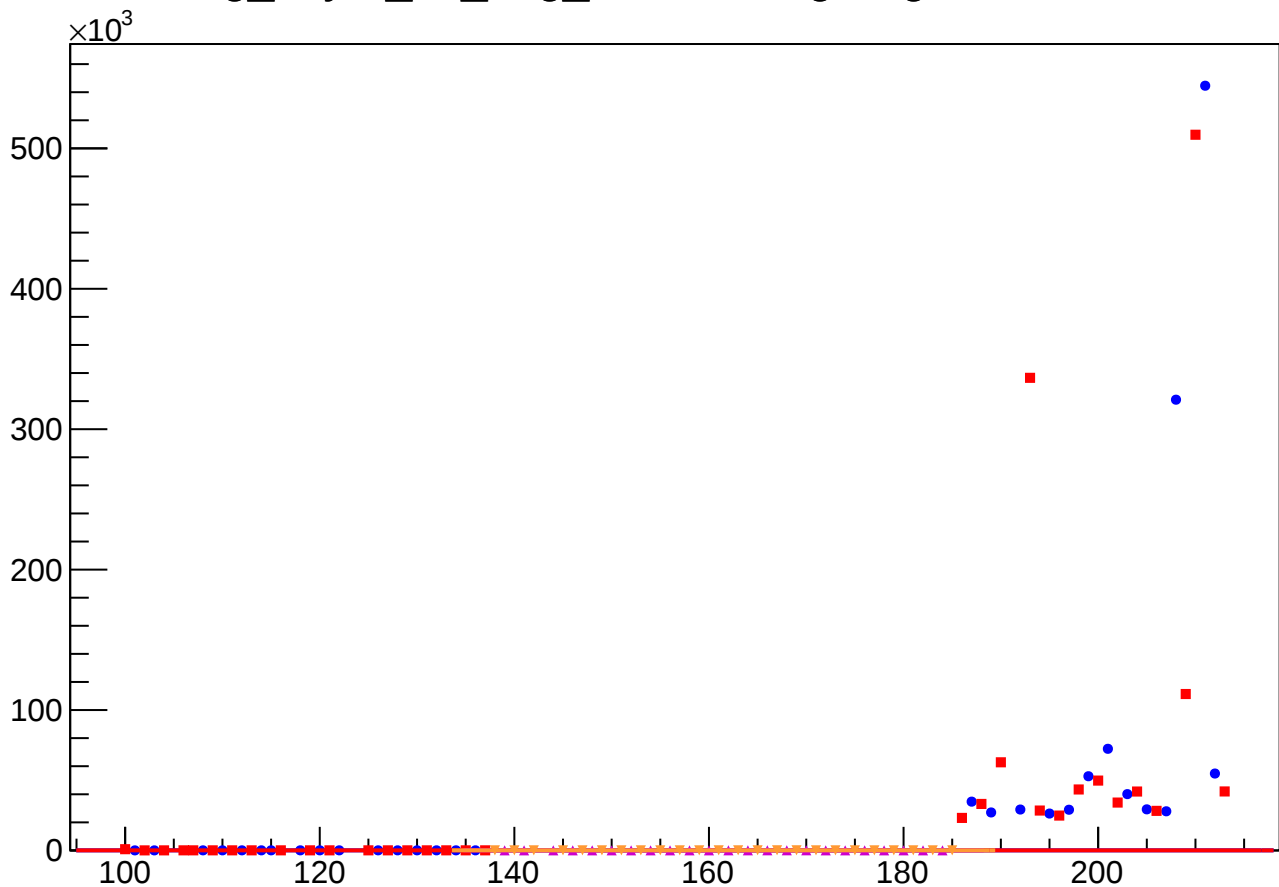
Right: 7.725 ± 21.397 χ^2/NDF : 54.5/56

In: -20.419 ± 17.527 χ^2/NDF : 45.9/49

Out: 12.994 ± 17.553 χ^2/NDF : 53.0/53

All: -3.737 ± 12.403 χ^2/NDF : 100.7/103

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.140 $\pm$ 0.021 χ^2 /NDF: 6491779.0/28

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

Right Out: 79.458 $\pm$ 0.022 χ^2 /NDF: 6196457.8/31

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

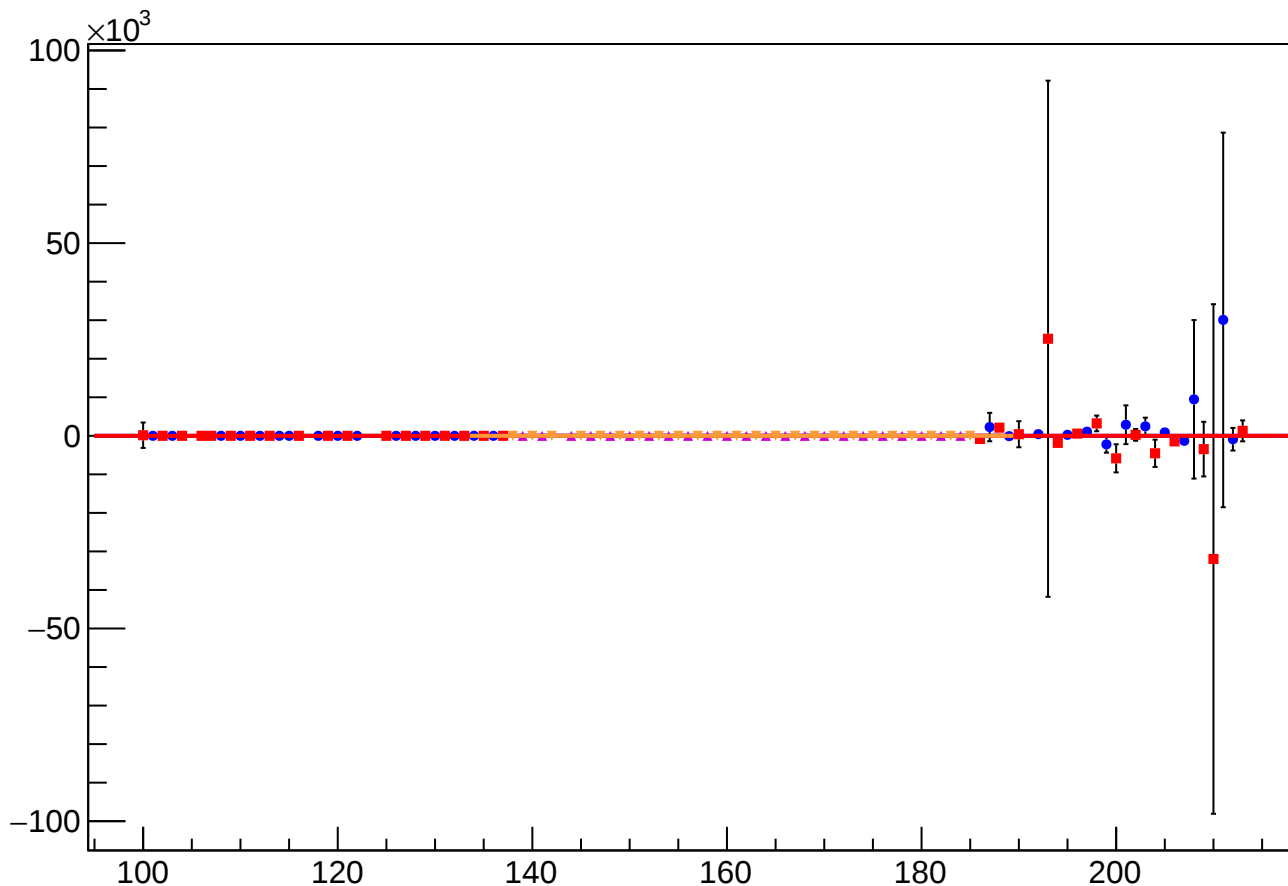
Right: 77.774 $\pm$ 0.015 χ^2 /NDF: 12700254.9/60

In: 85.013 $\pm$ 0.012 χ^2 /NDF: 7265007.5/51

Out: 86.300 $\pm$ 0.012 χ^2 /NDF: 6813380.3/55

All: 85.656 $\pm$ 0.009 χ^2 /NDF: 14083778.7/107

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 31.5/28

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

Right Out: 0.038 ± 0.525 χ^2/NDF : 29.7/31

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

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

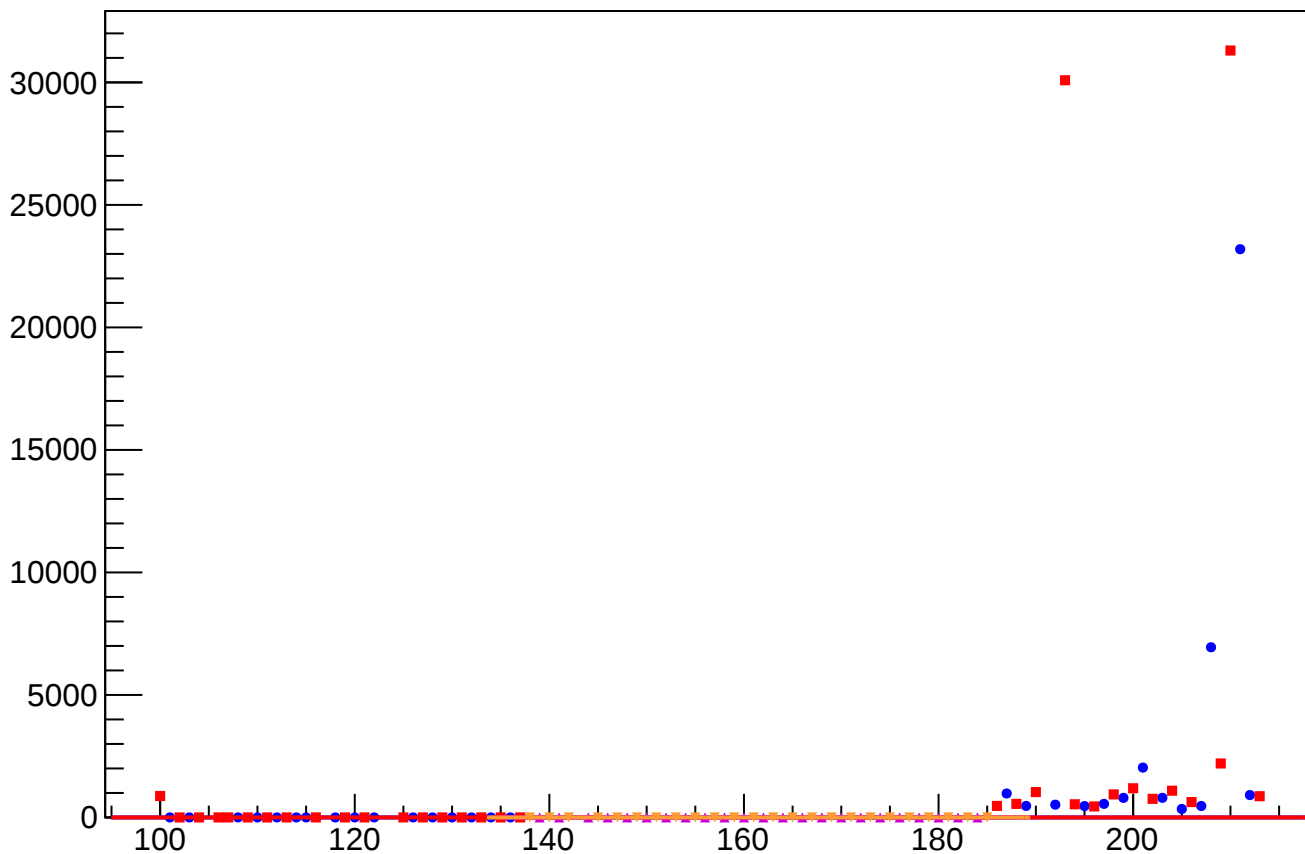
Right: -0.133 ± 0.363 χ^2/NDF : 61.4/60

In: -0.433 ± 0.306 χ^2/NDF : 58.0/51

Out: 0.096 ± 0.306 χ^2/NDF : 51.1/55

All: -0.168 ± 0.217 χ^2/NDF : 110.6/107

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 6197661.2/28

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

Right Out: 1.260+/-0.000 χ^2/NDF : 6816793.9/31

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

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

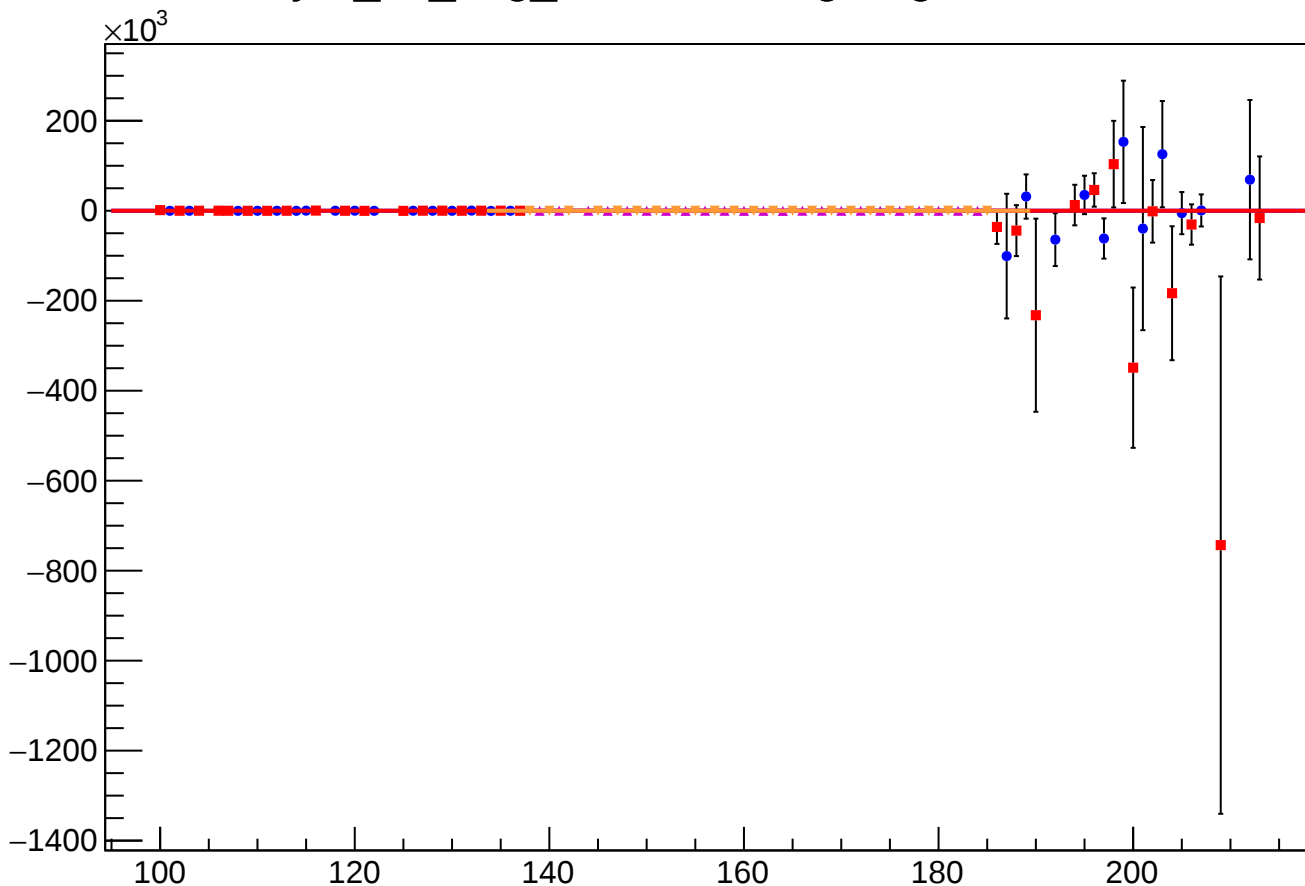
Right: 1.204+/-0.000 χ^2/NDF : 13057843.0/60

In: 1.341+/-0.000 χ^2/NDF : 7641725.2/51

Out: 1.358+/-0.000 χ^2/NDF : 7909414.1/55

All: 1.350+/-0.000 χ^2/NDF : 15554104.6/107

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.492 ± 30.040 χ^2/NDF : 23.5/26

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

Right Out: 32.004 ± 30.500 χ^2/NDF : 29.6/29

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

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

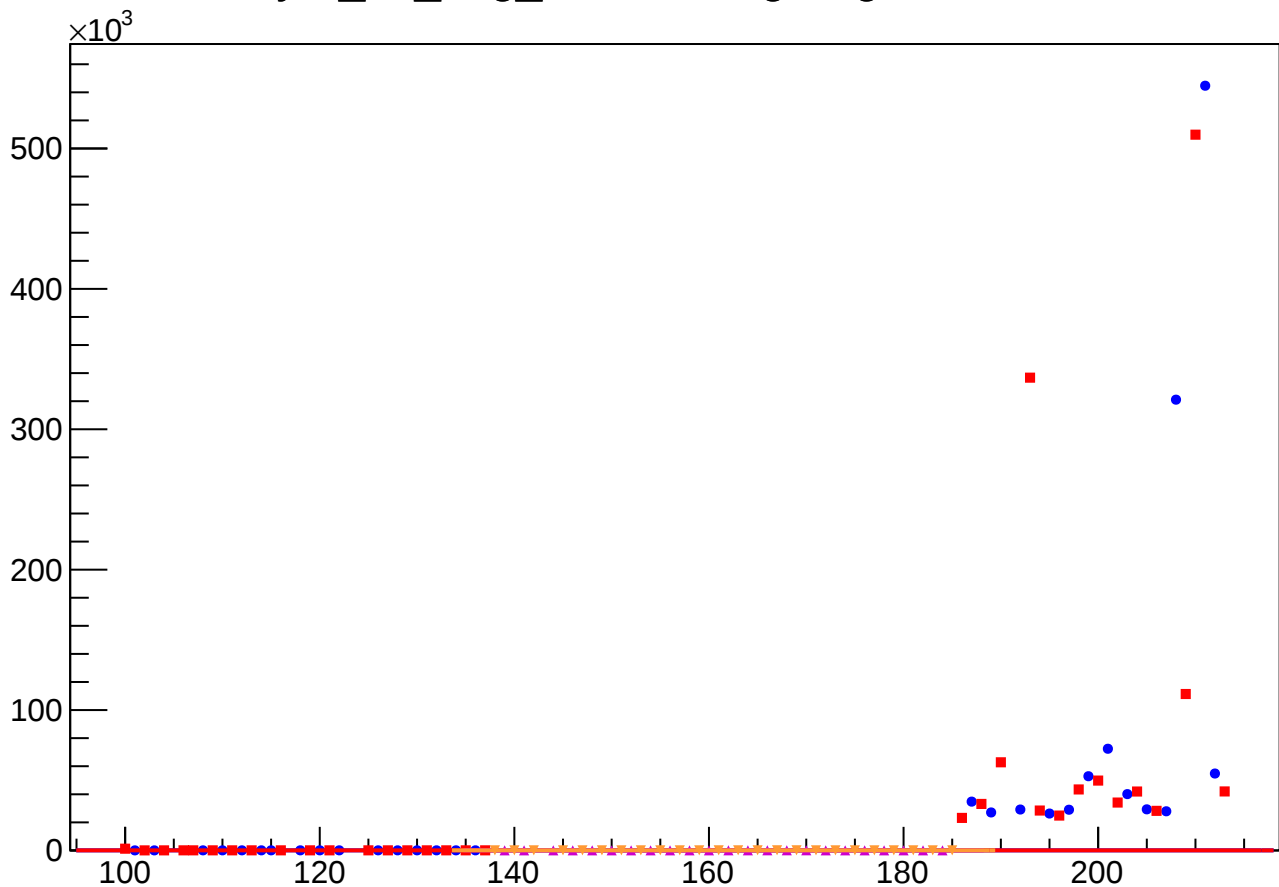
Right: 8.403 ± 21.402 χ^2/NDF : 54.3/56

In: -19.736 ± 17.532 χ^2/NDF : 45.9/49

Out: 12.945 ± 17.559 χ^2/NDF : 52.3/53

All: -3.420 ± 12.407 χ^2/NDF : 100.0/103

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.160 $\pm$ 0.021 χ^2 /NDF: 6491879.7/28

Left Out: 89.719 $\pm$ 0.015 χ^2 /NDF: 467023.5/23

Right Out: 79.461 $\pm$ 0.022 χ^2 /NDF: 6203070.4/31

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

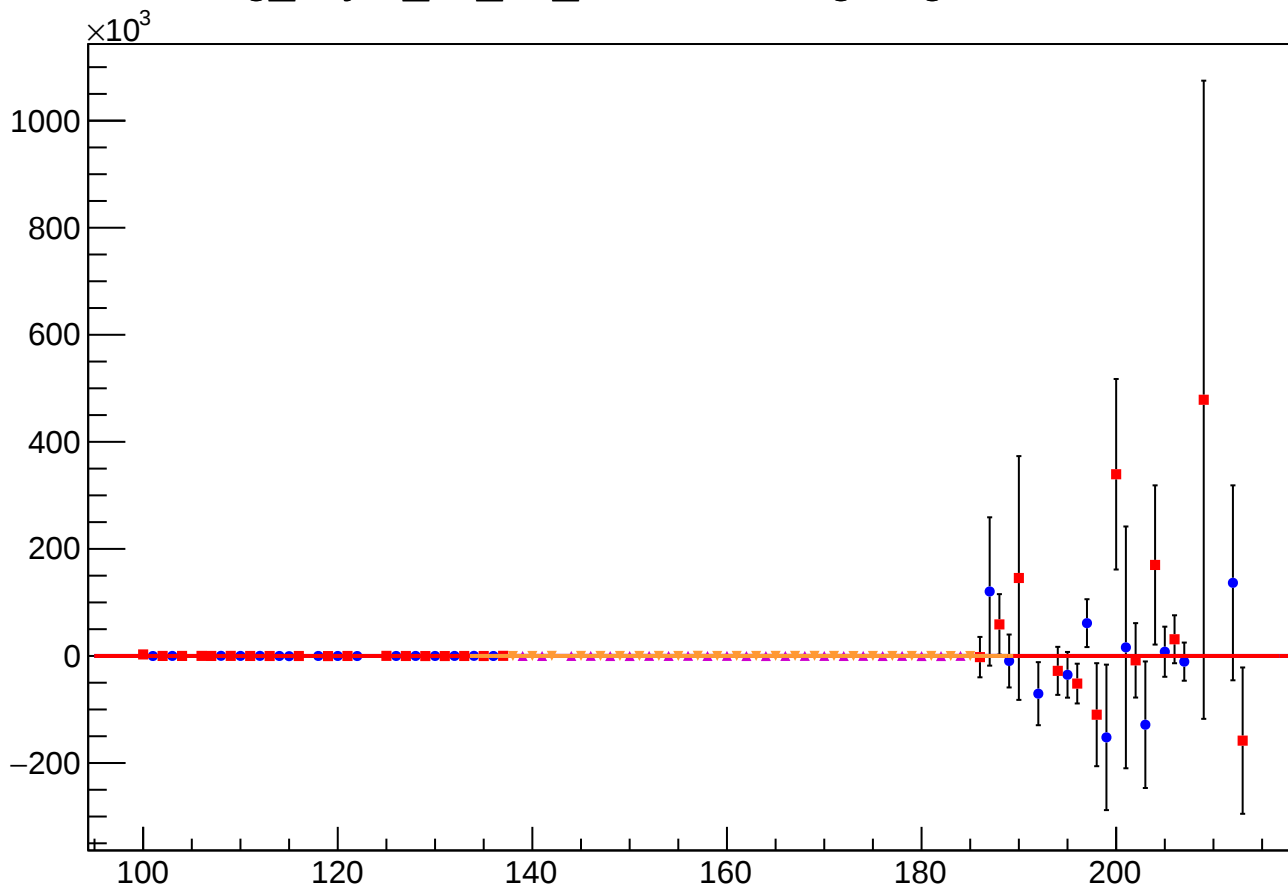
Right: 77.786 $\pm$ 0.015 χ^2 /NDF: 12706843.0/60

In: 85.037 $\pm$ 0.012 χ^2 /NDF: 7266110.9/51

Out: 86.319 $\pm$ 0.012 χ^2 /NDF: 6821336.0/55

All: 85.677 $\pm$ 0.009 χ^2 /NDF: 14092791.9/107

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.091 ± 30.012 $\chi^2/\text{NDF}: 21.9/26$

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

Right Out: -25.791 ± 30.473 $\chi^2/\text{NDF}: 25.3/29$

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

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

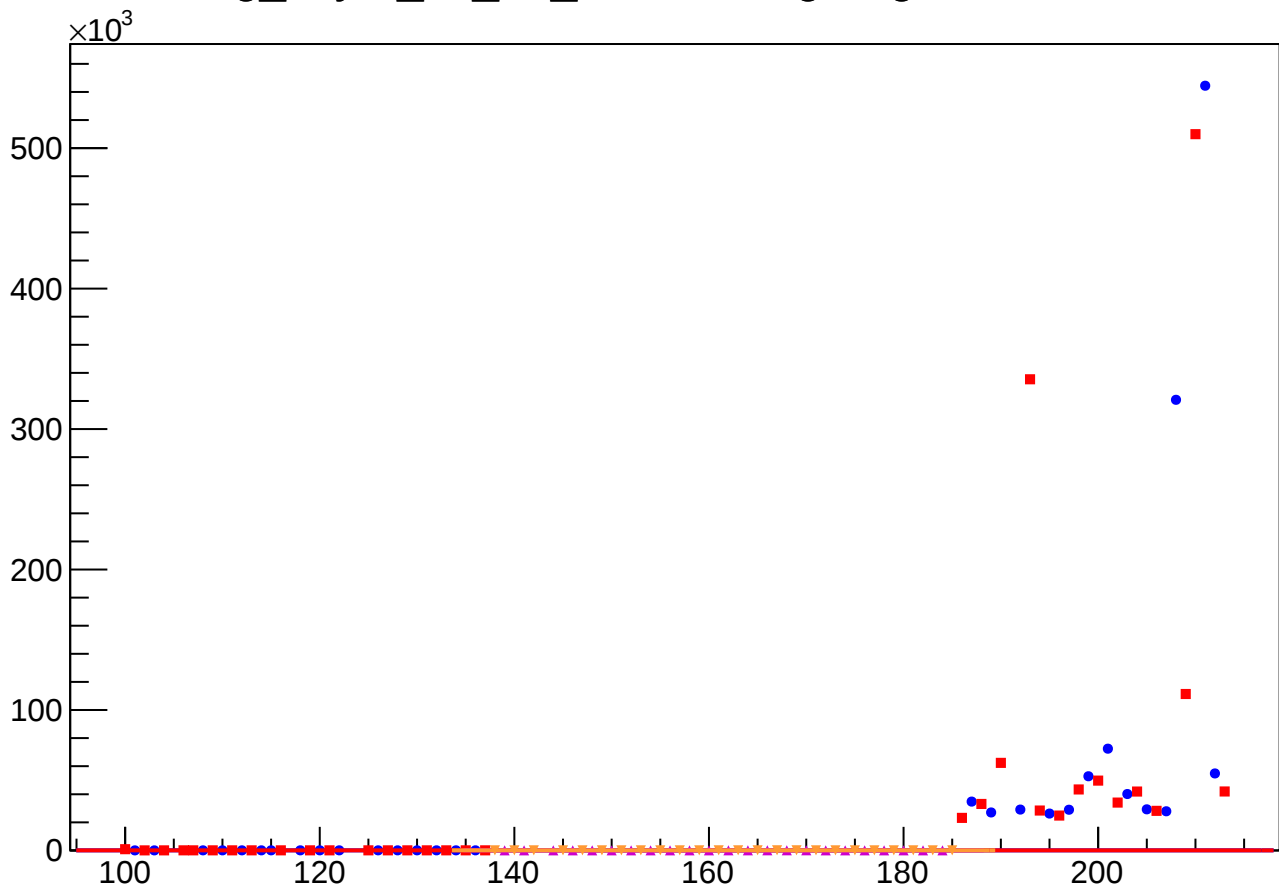
Right: -8.592 ± 21.383 $\chi^2/\text{NDF}: 47.9/56$

In: 31.372 ± 17.528 $\chi^2/\text{NDF}: 54.3/49$

Out: 1.649 ± 17.552 $\chi^2/\text{NDF}: 43.7/53$

All: 16.531 ± 12.403 $\chi^2/\text{NDF}: 99.4/103$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.091 $\pm$ 0.021 χ^2 /NDF: 6491156.6/28

Left Out: 89.712 $\pm$ 0.015 χ^2 /NDF: 465096.2/23

Right Out: 79.409 $\pm$ 0.022 χ^2 /NDF: 6195772.8/31

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

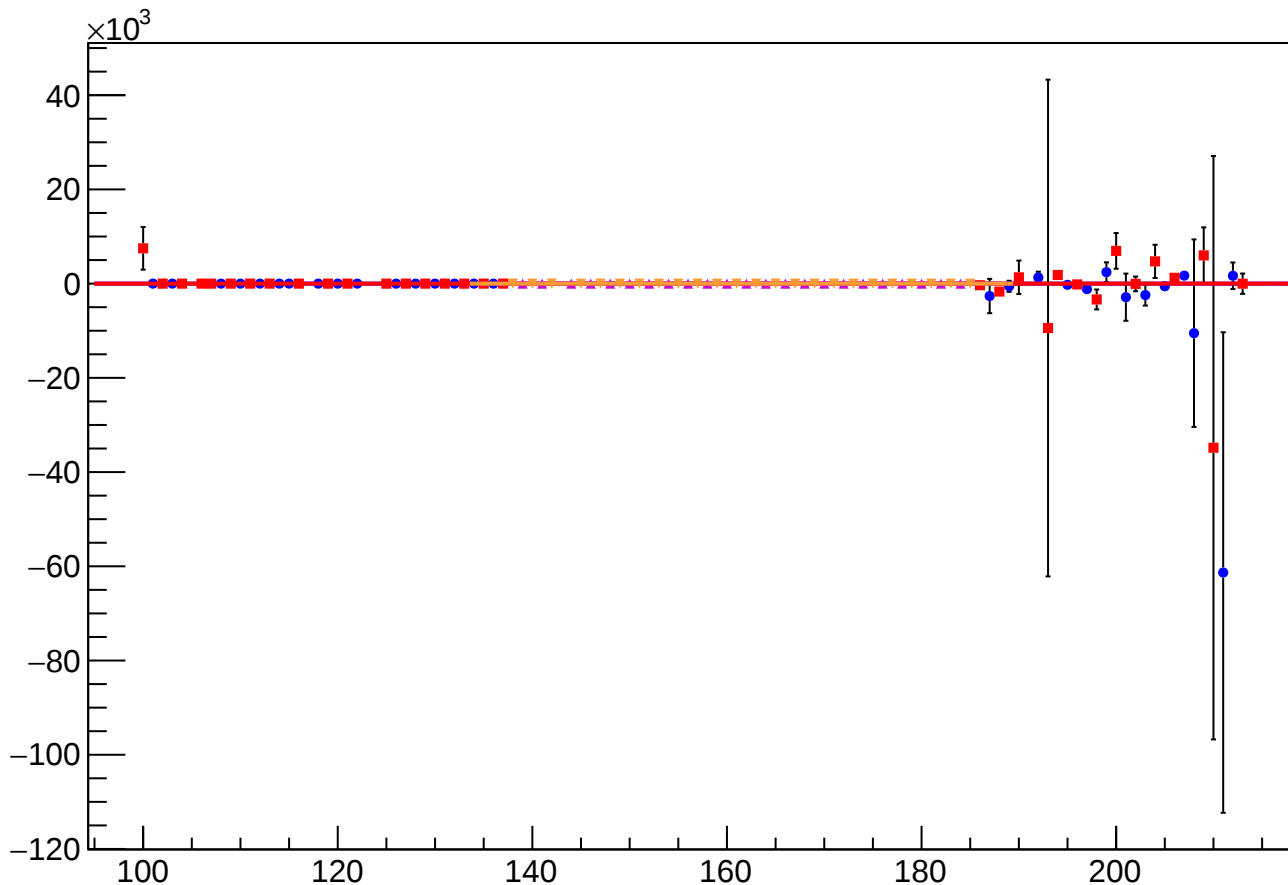
Right: 77.725 $\pm$ 0.015 χ^2 /NDF: 12698968.4/60

In: 85.010 $\pm$ 0.012 χ^2 /NDF: 7270293.7/51

Out: 86.294 $\pm$ 0.012 χ^2 /NDF: 6813635.3/55

All: 85.651 $\pm$ 0.009 χ^2 /NDF: 14089282.2/107

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.893 ± 0.531 $\chi^2/\text{NDF}: 27.5/28$

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

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 32.0/31$

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

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

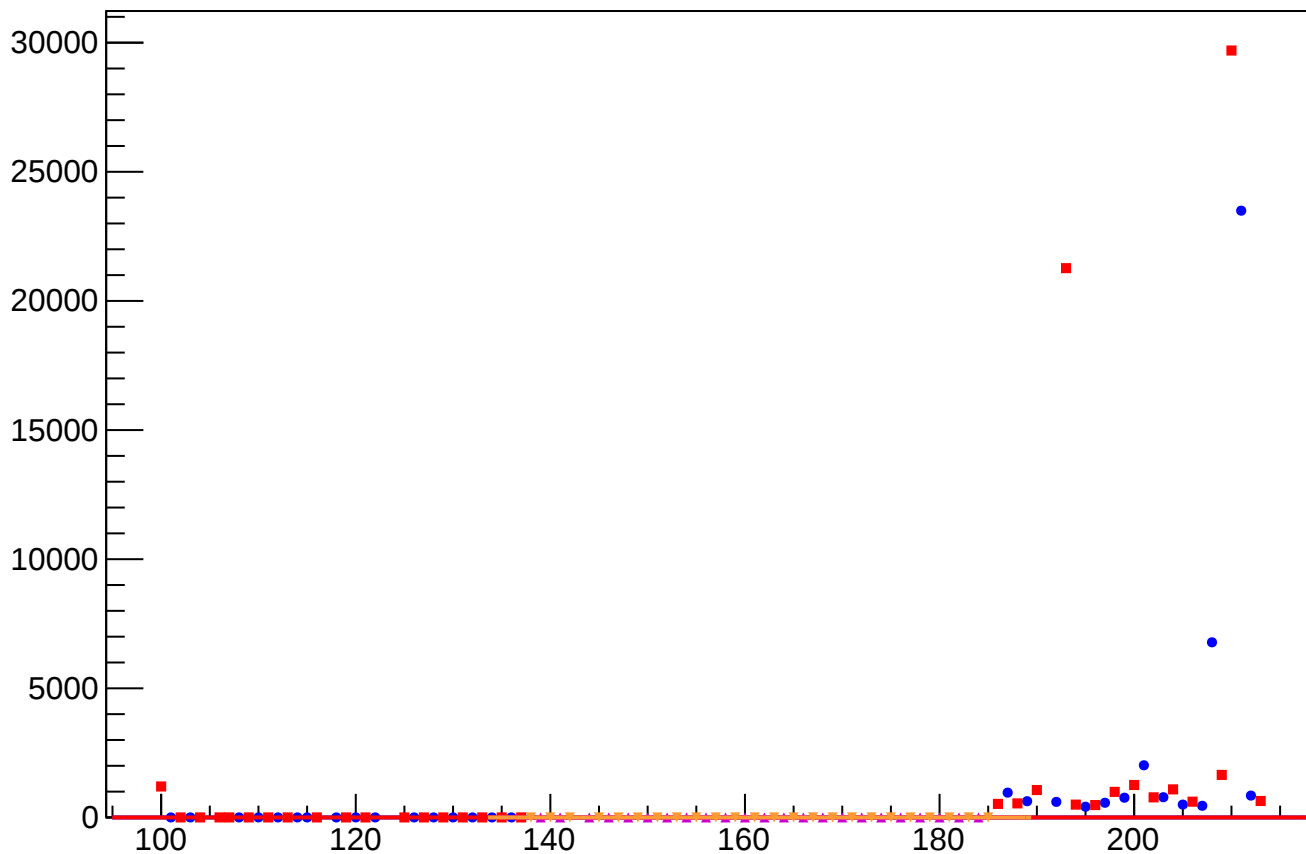
Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 60.0/60$

In: 0.267 ± 0.315 $\chi^2/\text{NDF}: 50.0/51$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 54.4/55$

All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 105.6/107$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 6444615.4/28

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

Right Out: 1.317+/-0.000 χ^2/NDF : 6711041.2/31

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

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

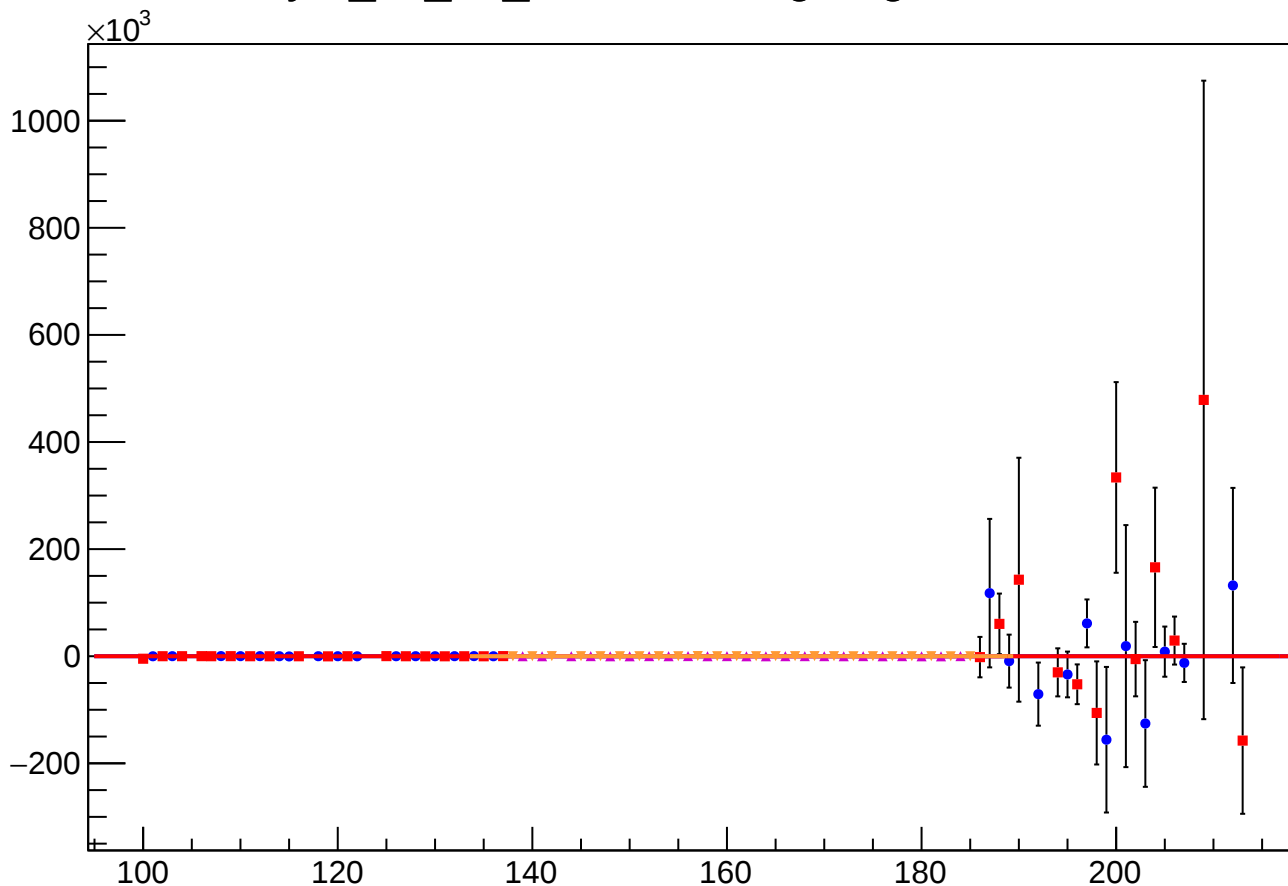
Right: 1.274+/-0.000 χ^2/NDF : 13178842.0/60

In: 1.382+/-0.000 χ^2/NDF : 7729629.0/51

Out: 1.419+/-0.000 χ^2/NDF : 7969917.4/55

All: 1.400+/-0.000 χ^2/NDF : 15713178.2/107

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.383+/-30.020 χ^2 /NDF: 21.8/26

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

Right Out: -26.402+/-30.482 χ^2 /NDF: 25.3/29

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

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

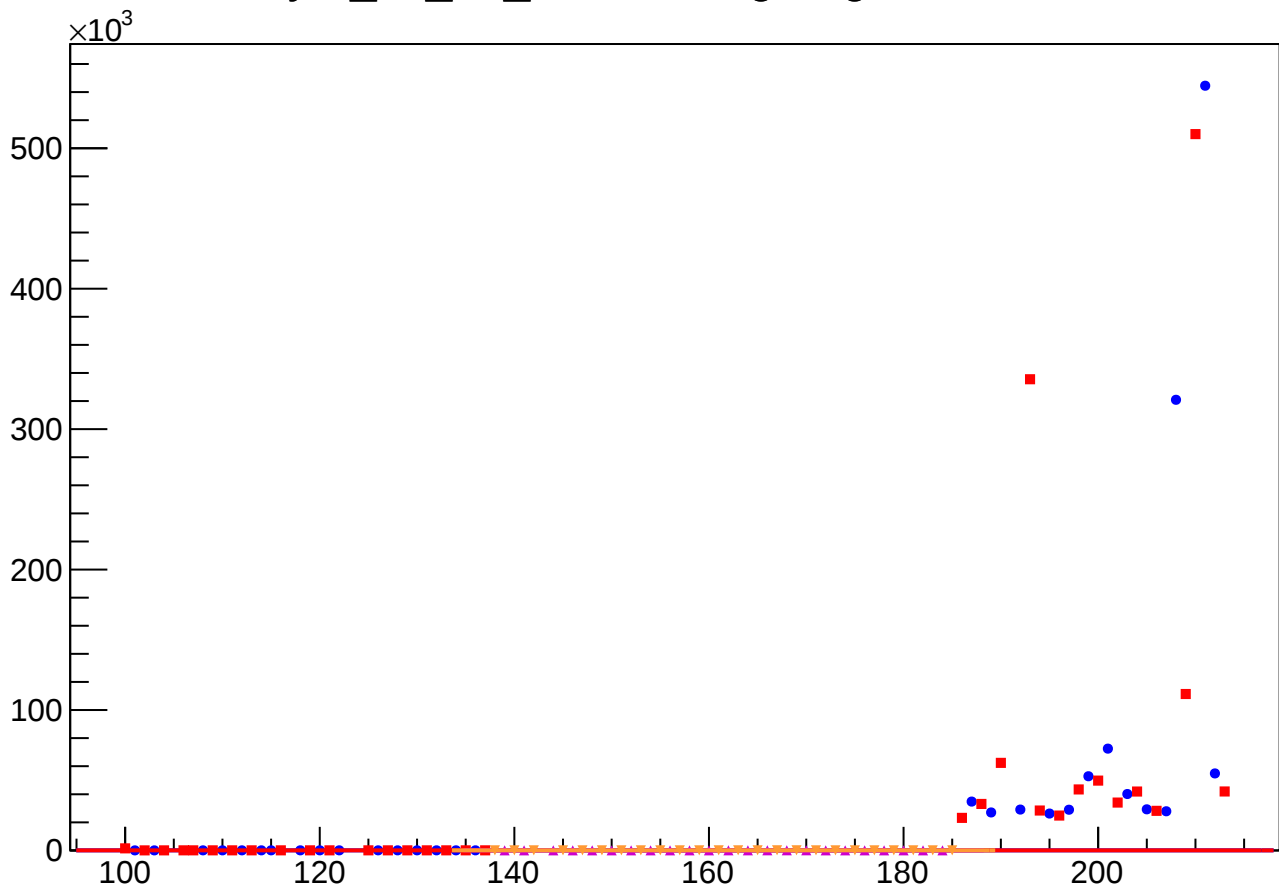
Right: -9.252+/-21.389 χ^2 /NDF: 47.7/56

In: 31.447+/-17.533 χ^2 /NDF:53.8/49

Out: 1.778+/-17.558 χ^2 /NDF:43.7/53

All: 16.633+/-12.407 χ^2 /NDF: 98.9/103

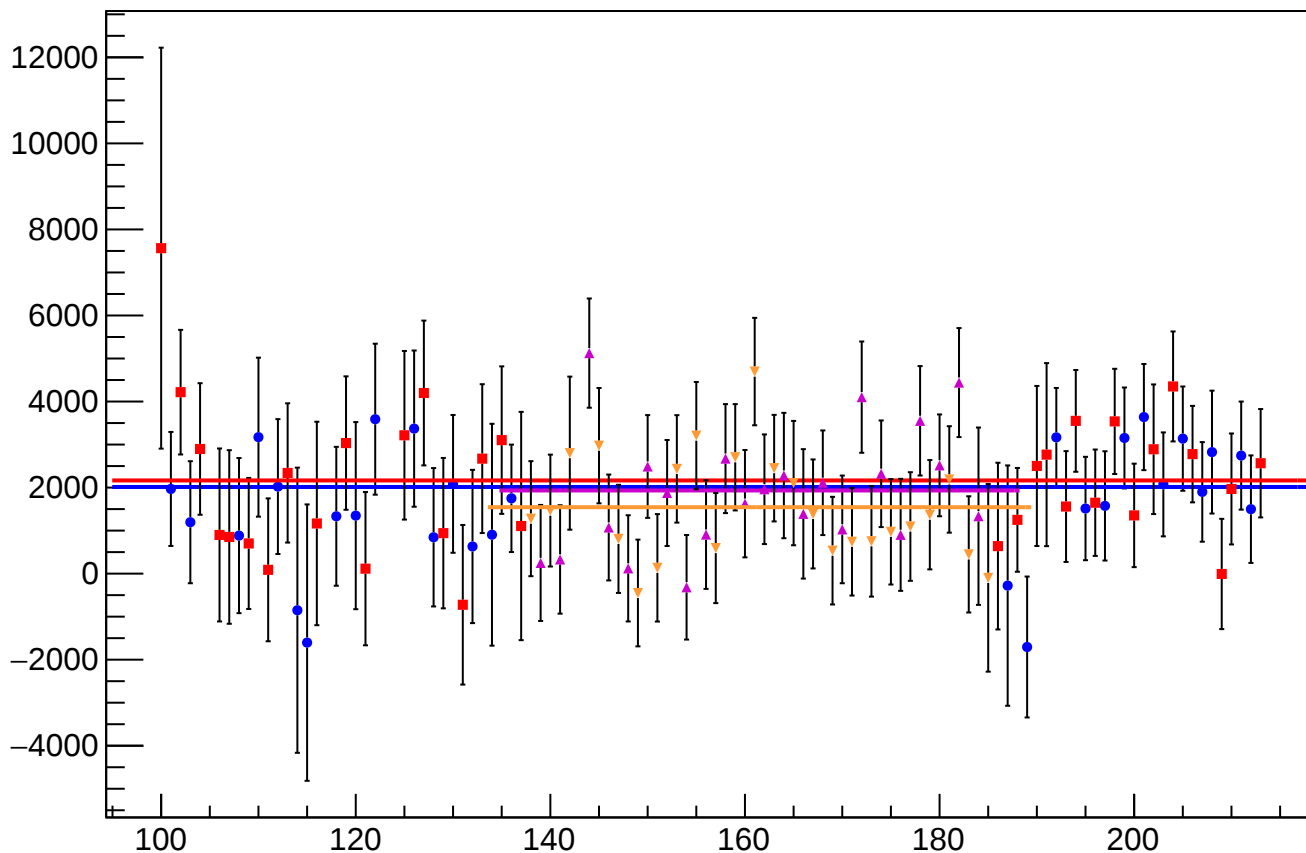
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.111 $\pm$ 0.021 χ^2 /NDF: 6491310.6/28
 Left Out: 89.740 $\pm$ 0.015 χ^2 /NDF: 465842.6/23
 Right Out: 79.406 $\pm$ 0.022 χ^2 /NDF: 6205089.8/31
 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: 77.734 $\pm$ 0.015 χ^2 /NDF: 12708260.0/60
 In: 85.035 $\pm$ 0.012 χ^2 /NDF: 7271350.1/51
 Out: 86.311 $\pm$ 0.012 χ^2 /NDF: 6824524.0/55
 All: 85.672 $\pm$ 0.009 χ^2 /NDF: 14101164.3/107

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 2013.815 $\pm$ 275.206 χ^2 /NDF: 17.7/28

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

Right Out: 2165.758 $\pm$ 266.664 χ^2 /NDF: 25.2/32

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

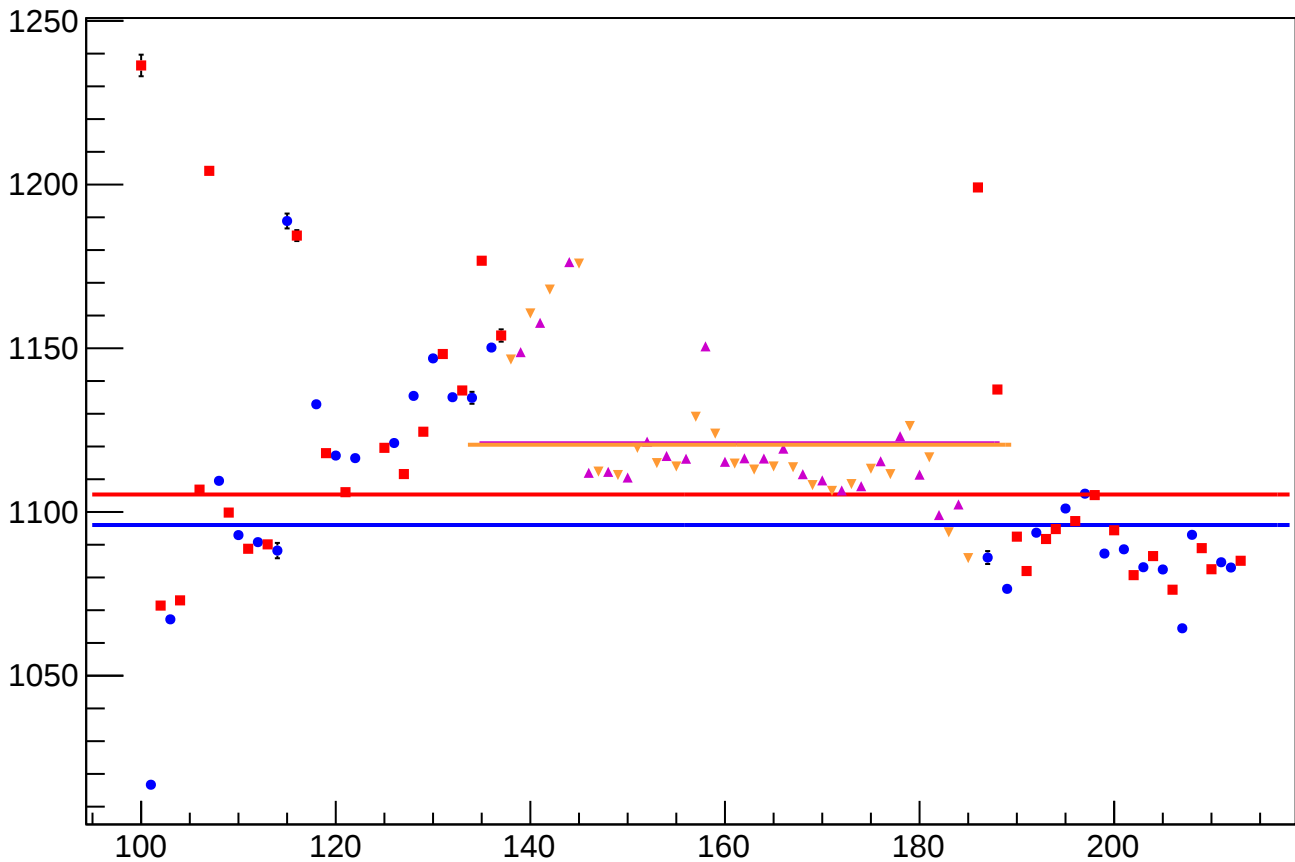
Right: 2092.181 $\pm$ 191.509 χ^2 /NDF: 43.0/61

In: 1972.336 $\pm$ 192.004 χ^2 /NDF: 44.7/51

Out: 1854.470 $\pm$ 188.421 χ^2 /NDF: 47.9/56

All: 1912.293 $\pm$ 134.483 χ^2 /NDF: 92.8/108

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1096.023+/-0.195 χ^2/NDF : 23110.0/28

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

Right Out: 1105.343+/-0.189 χ^2/NDF : 28262.5/32

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

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

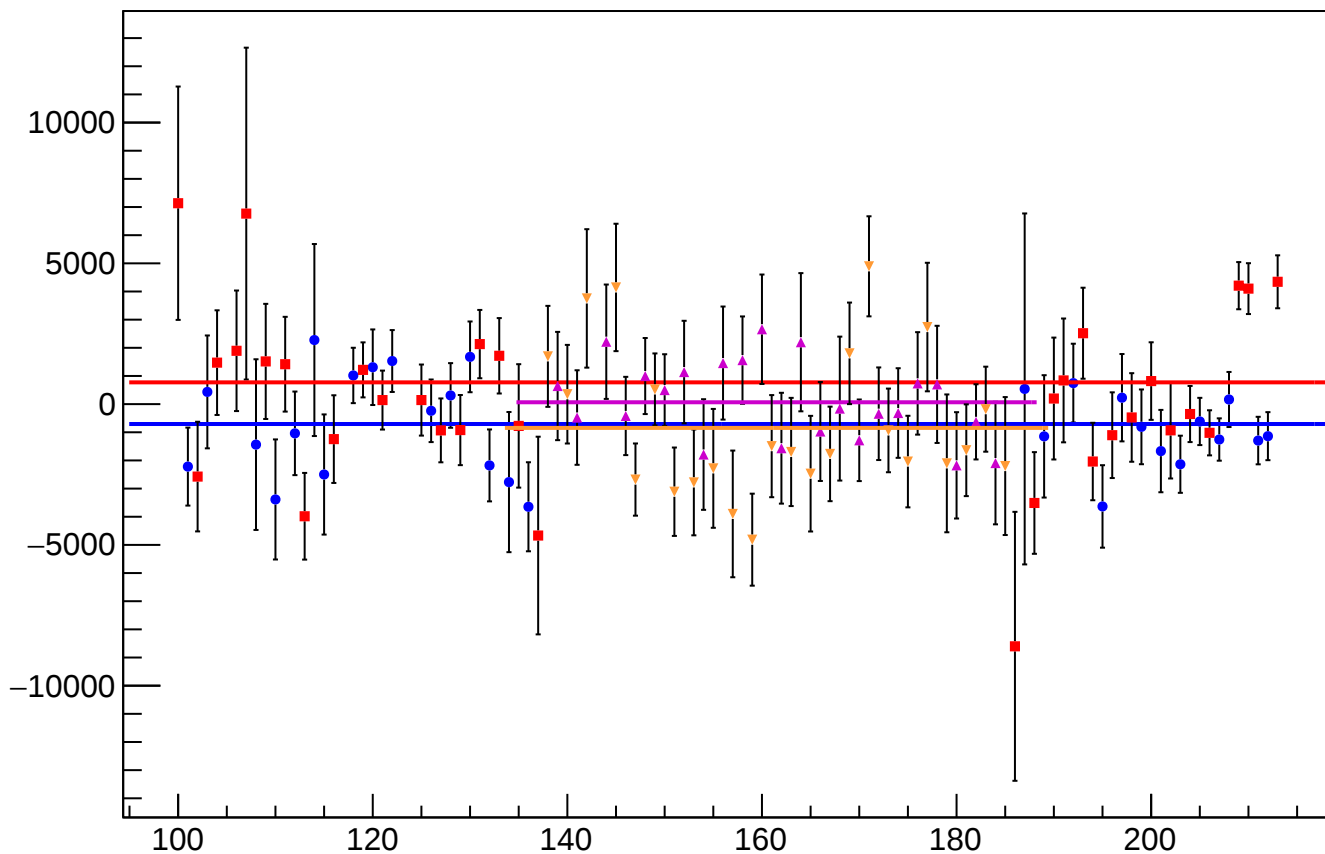
Right: 1100.830+/-0.135 χ^2/NDF : 52555.4/61

In: 1108.838+/-0.136 χ^2/NDF : 41200.8/51

Out: 1112.954+/-0.133 χ^2/NDF : 41769.2/56

All: 1110.935+/-0.095 χ^2/NDF : 83438.2/108

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -706.281 ± 233.738 χ^2/NDF : 34.2/28

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

Right Out: 772.927 ± 238.658 χ^2/NDF : 97.0/32

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

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

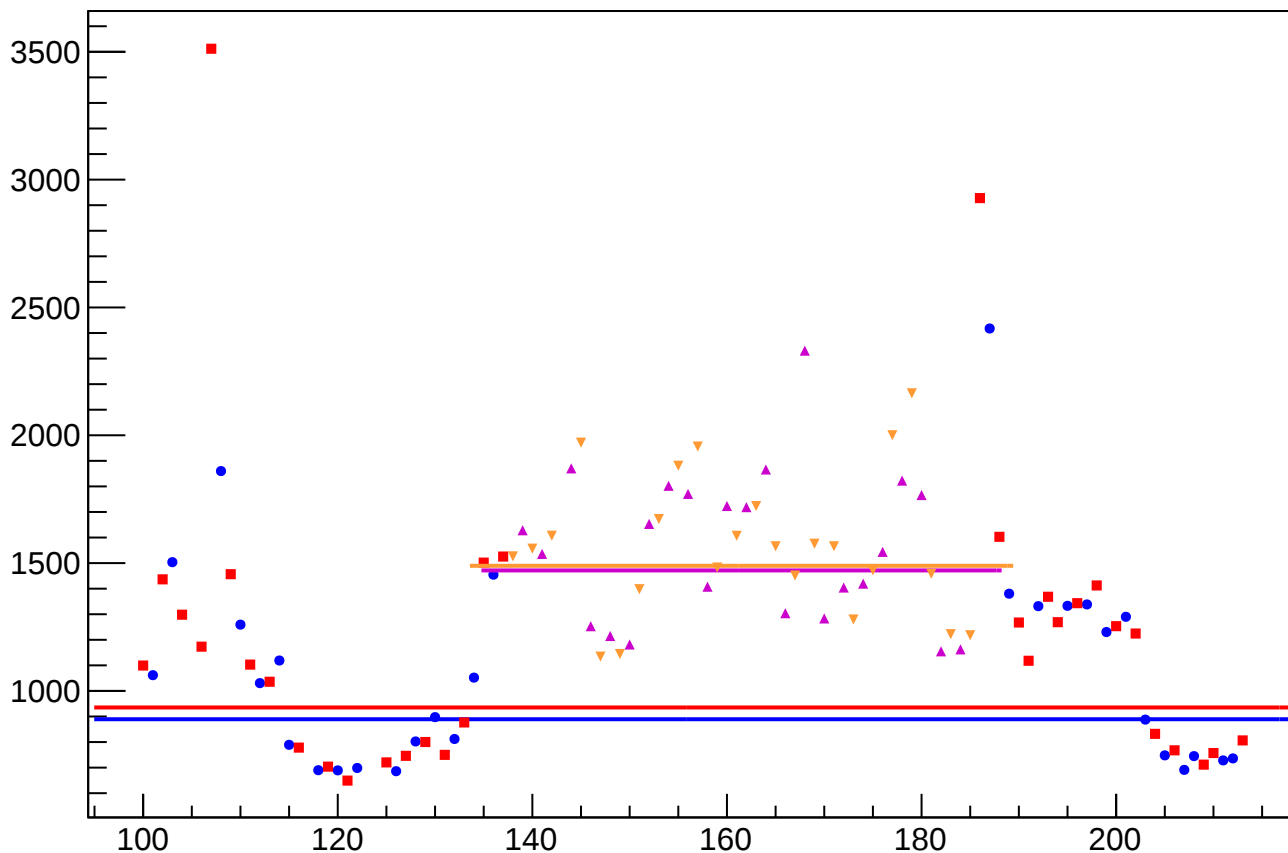
Right: 17.920 ± 166.990 χ^2/NDF : 150.8/61

In: -476.253 ± 195.844 χ^2/NDF : 49.6/51

Out: 281.128 ± 199.109 χ^2/NDF : 154.2/56

All: -103.822 ± 139.623 χ^2/NDF : 211.1/108

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 889.279 ± 0.165 χ^2/NDF : 2484890.0/28

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

Right Out: 935.273 ± 0.169 χ^2/NDF : 3239595.6/32

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

Left: 1480.391 ± 0.180 χ^2/NDF : 2117070.9/46

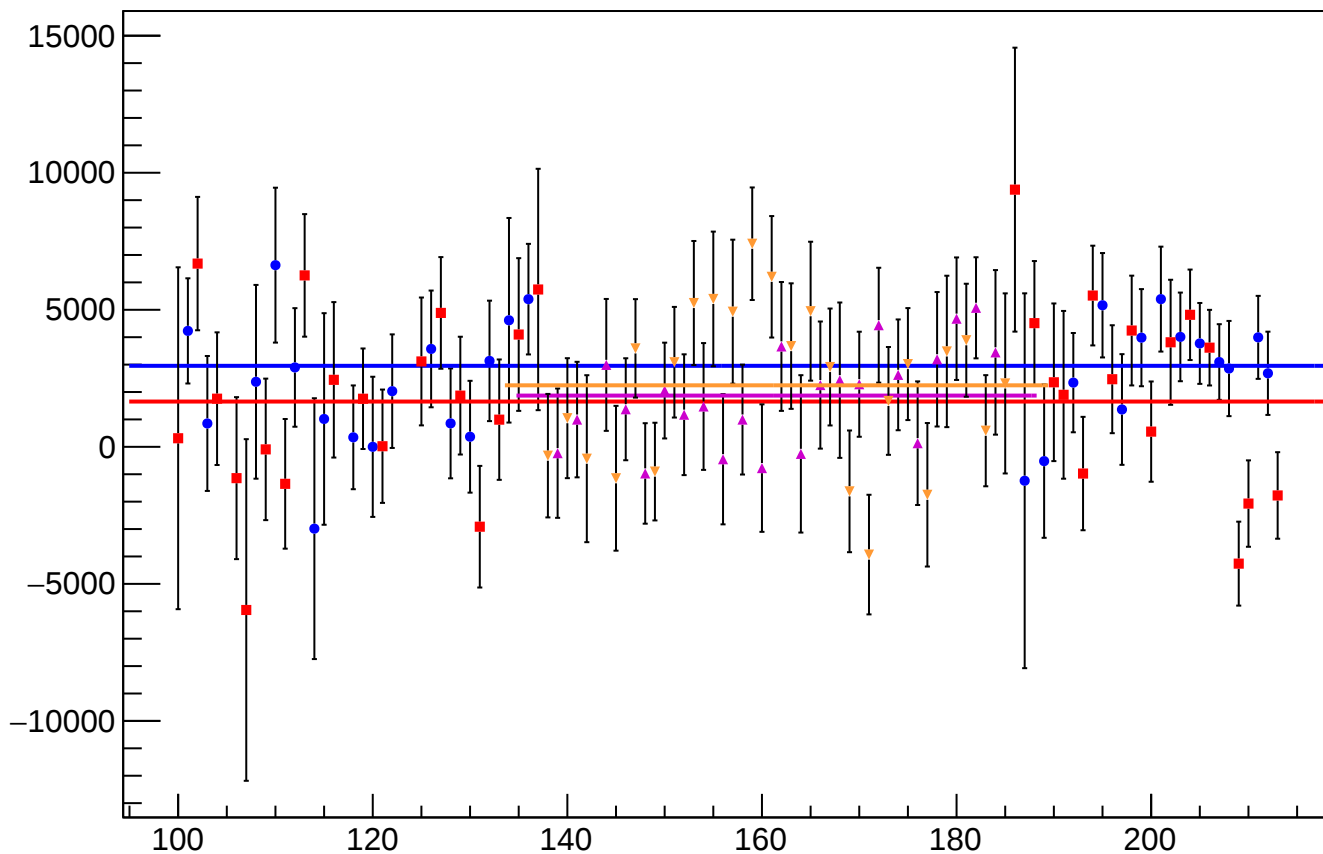
Right: 911.797 ± 0.118 χ^2/NDF : 5762399.5/61

In: 1062.724 ± 0.138 χ^2/NDF : 7286280.9/51

Out: 1103.742 ± 0.141 χ^2/NDF : 7527460.2/56

All: 1082.894 ± 0.099 χ^2/NDF : 14856881.8/100

asym_usl_mean vs Slug, Sign Corrected



Right In: 2955.752 $\pm$ 377.968 χ^2 /NDF: 19.8/28

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

Right Out: 1652.331 $\pm$ 376.919 χ^2 /NDF: 66.6/32

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

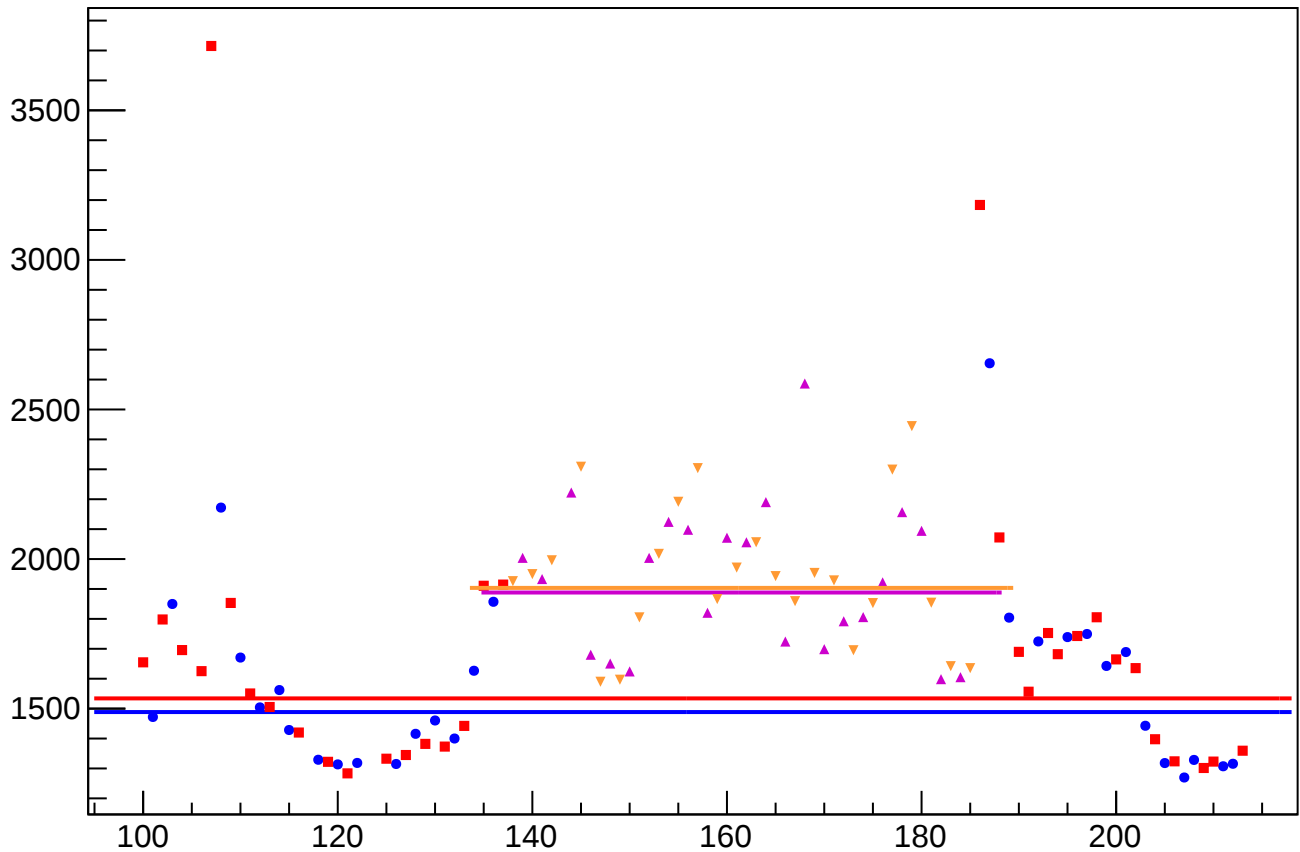
Right: 2302.230 $\pm$ 266.892 χ^2 /NDF: 92.4/61

In: 2512.884 $\pm$ 290.861 χ^2 /NDF:38.0/51

Out: 1892.363 $\pm$ 290.643 χ^2 /NDF:106.2/56

All: 2202.391 $\pm$ 205.593 χ^2 /NDF: 146.5/108

asym_usl_rms vs Slug, Sign Corrected



Right In: 1488.529+/-0.267 χ^2/NDF : 626229.6/28

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

Right Out: 1534.173+/-0.267 χ^2/NDF : 1075178.3/32

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

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

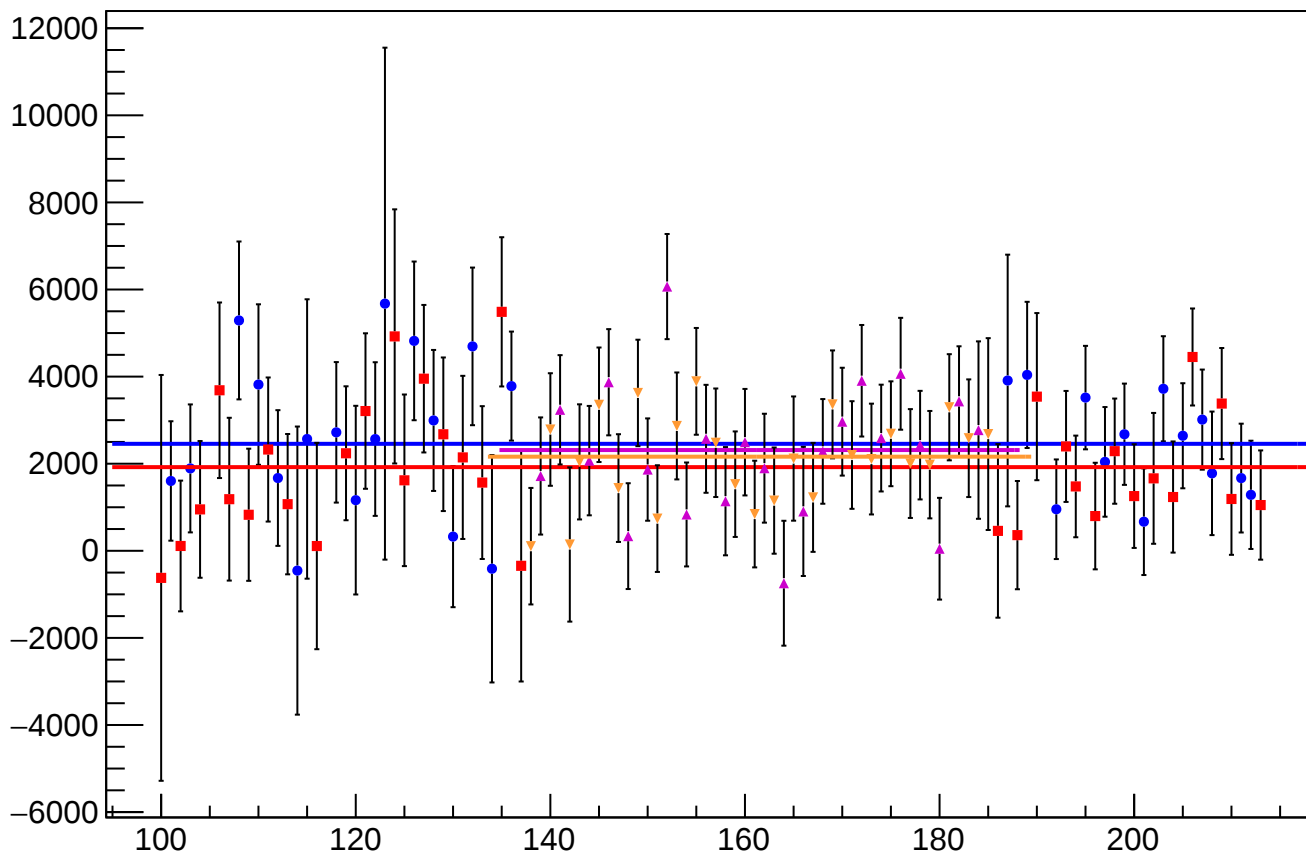
Right: 1511.414+/-0.189 χ^2/NDF : 1716031.8/61

In: 1651.488+/-0.206 χ^2/NDF : 2042417.9/51

Out: 1683.932+/-0.206 χ^2/NDF : 2315777.8/56

All: 1667.722+/-0.145 χ^2/NDF : 4370647.5/10

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2456.668 $\pm$ 275.280 χ^2/NDF : 21.4/29

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

Right Out: 1921.312 $\pm$ 267.588 χ^2/NDF : 24.8/32

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

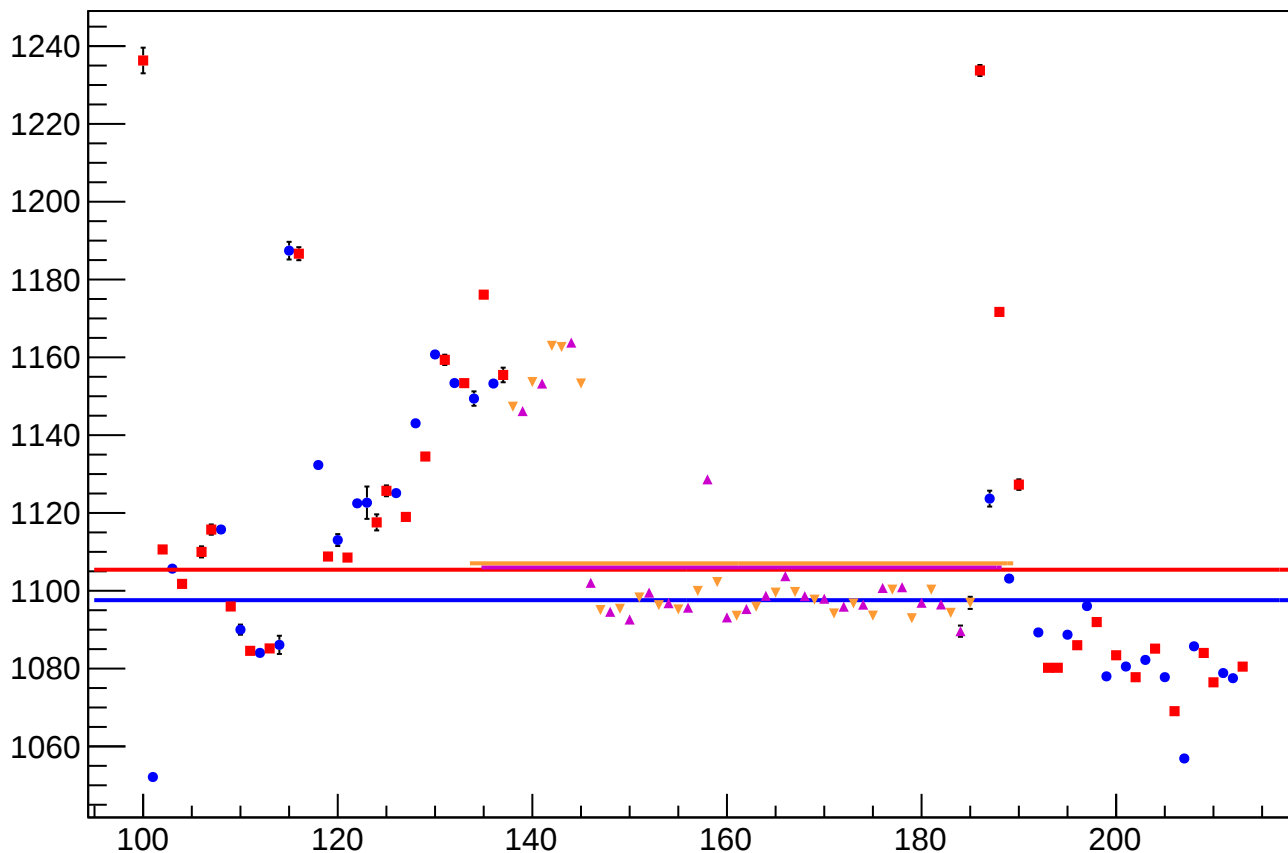
Right: 2181.405 $\pm$ 191.875 χ^2/NDF : 48.2/62

In: 2382.209 $\pm$ 190.700 χ^2/NDF : 52.8/52

Out: 2045.972 $\pm$ 185.551 χ^2/NDF : 40.3/57

All: 2209.490 $\pm$ 132.987 χ^2/NDF : 94.8/110

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1097.583+/-0.195 χ^2/NDF : 23256.1/29

Left Out: 1107.057+/-0.182 χ^2/NDF : 15175.6/24

Right Out: 1105.413+/-0.189 χ^2/NDF : 36016.3/32

Left In: 1105.997+/-0.187 χ^2/NDF : 11551.3/22

Left: 1106.541+/-0.130 χ^2/NDF : 26743.4/47

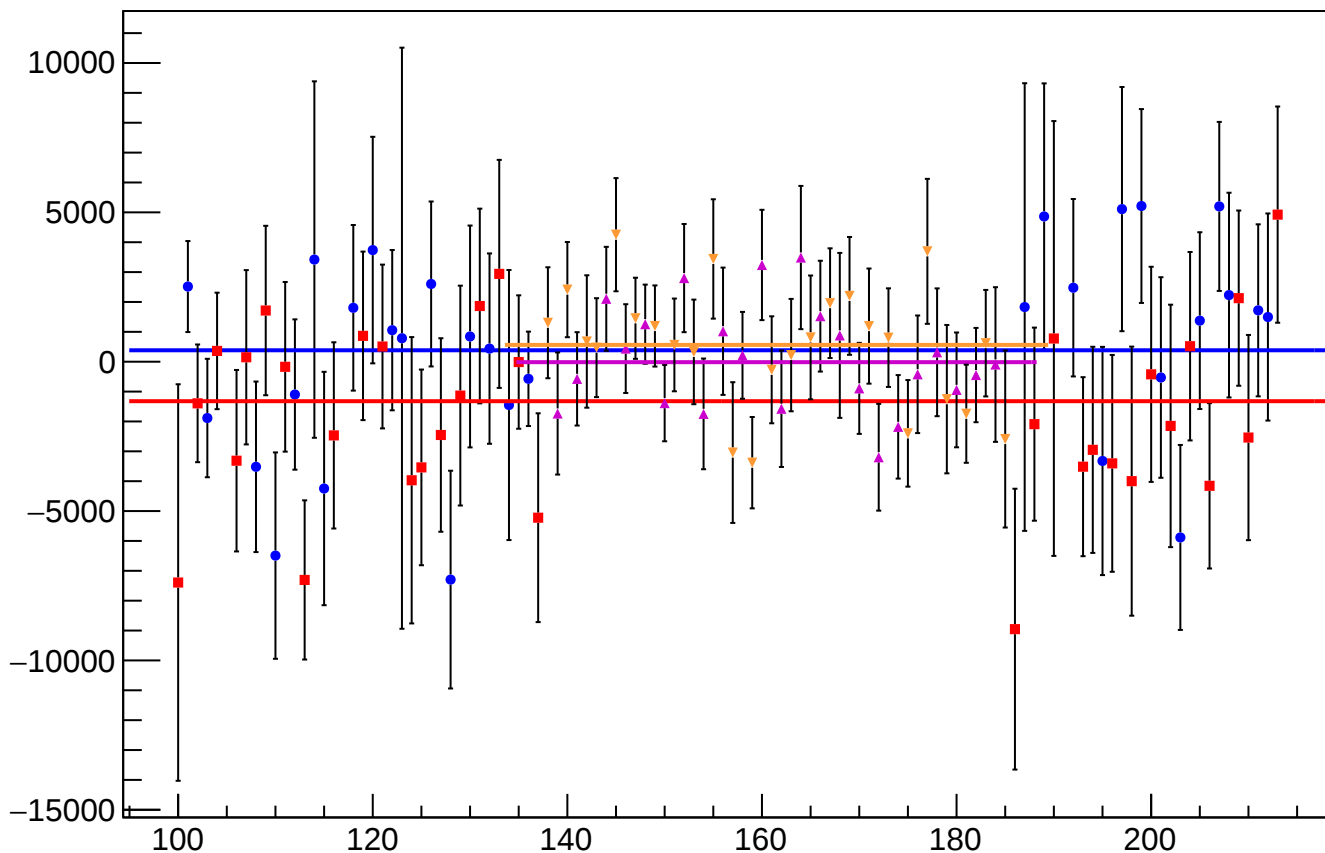
Right: 1101.609+/-0.136 χ^2/NDF : 60104.3/62

In: 1101.959+/-0.135 χ^2/NDF : 35779.0/52

Out: 1106.266+/-0.131 χ^2/NDF : 51231.1/57

All: 1104.172+/-0.094 χ^2/NDF : 87534.3/110

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 382.710 $\pm$ 538.741 χ^2/NDF : 31.7/29

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

Right Out: -1321.739 $\pm$ 542.507 χ^2/NDF : 24.7/32

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

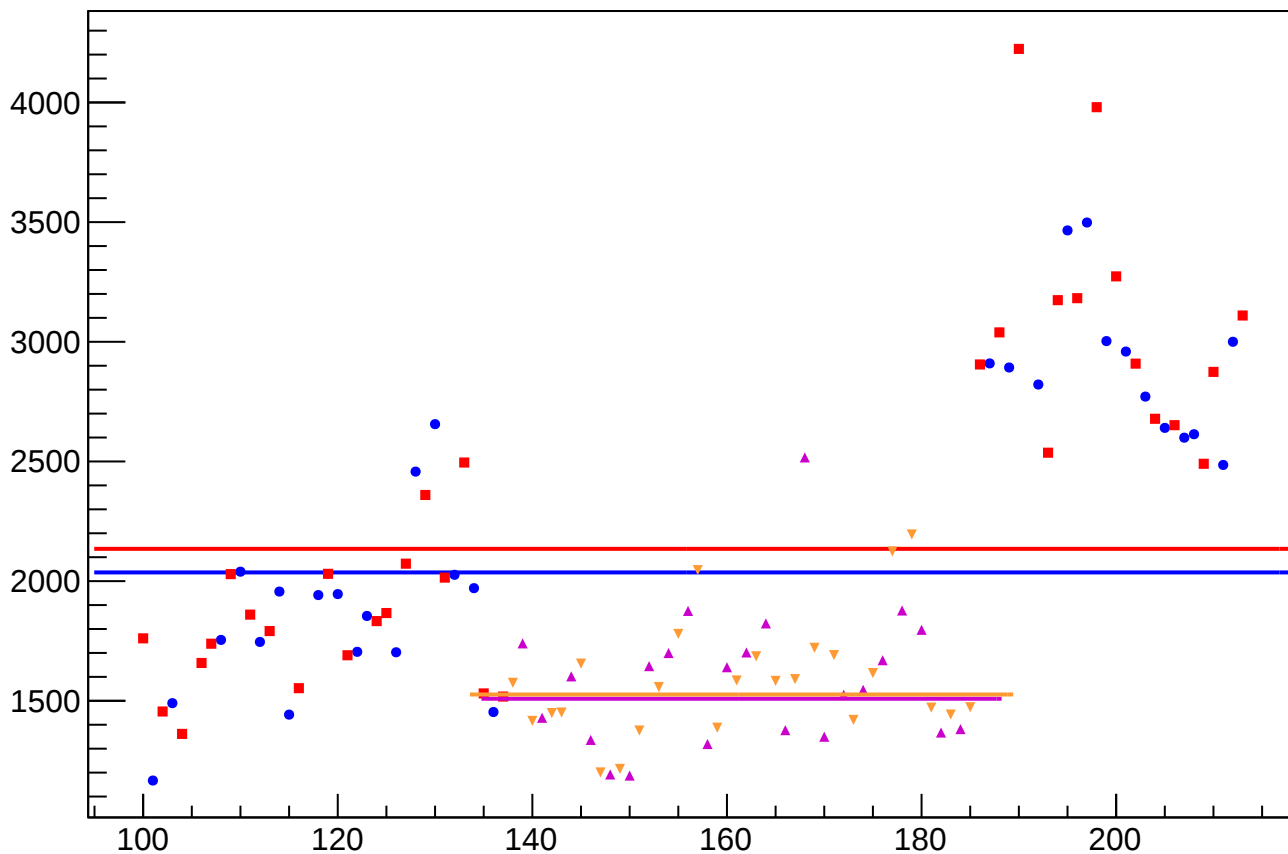
Right: -463.578 $\pm$ 382.272 χ^2/NDF : 61.3/62

In: 110.637 $\pm$ 303.228 χ^2/NDF : 52.2/52

Out: -15.014 $\pm$ 300.485 χ^2/NDF : 59.8/57

All: 47.241 $\pm$ 213.438 χ^2/NDF : 112.1/110

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 2036.362 $\pm$ 0.381 χ^2 /NDF: 2955429.7/29

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

Right Out: 2134.933 $\pm$ 0.384 χ^2 /NDF: 2847115.0/32

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

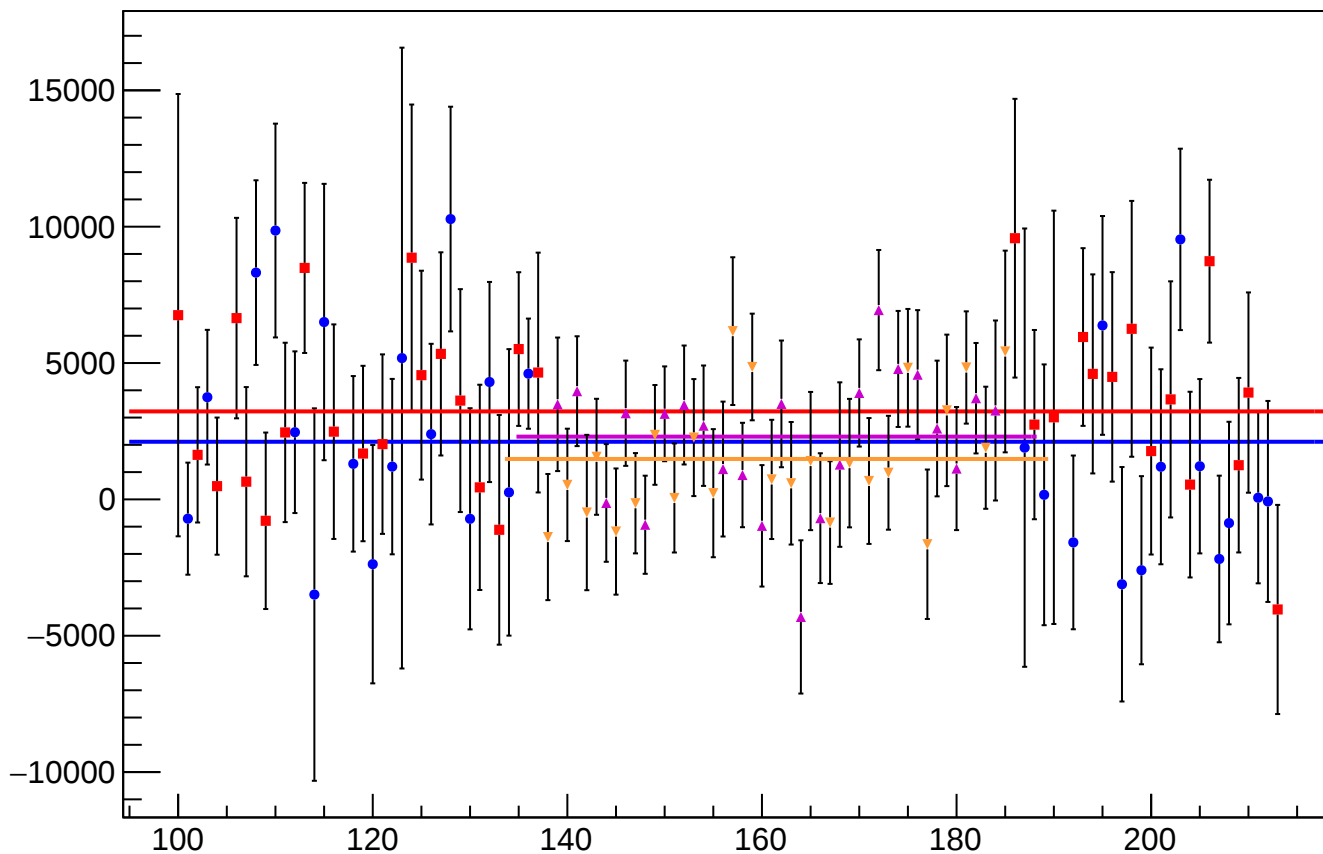
Right: 2085.304 $\pm$ 0.270 χ^2 /NDF: 5835788.0/62

In: 1675.779 $\pm$ 0.214 χ^2 /NDF: 5198493.3/52

Out: 1713.083 $\pm$ 0.212 χ^2 /NDF: 5345318.7/57

All: 1694.600 $\pm$ 0.151 χ^2 /NDF: 10559083.8/1

asym_usr_mean vs Slug, Sign Corrected



Right In: 2113.158 $\pm$ 629.162 χ^2 /NDF: 33.2/29

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

Right Out: 3226.262 $\pm$ 625.493 χ^2 /NDF: 23.0/32

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

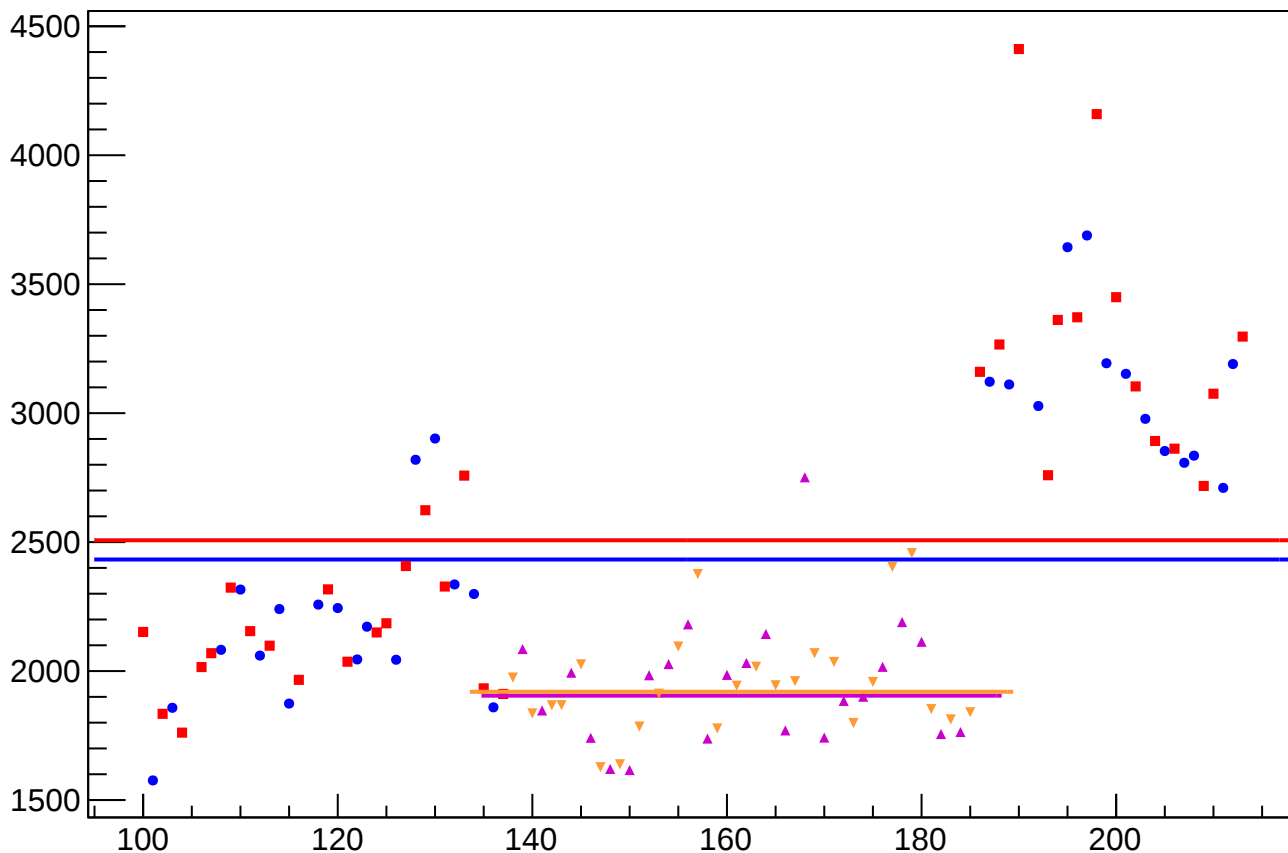
Right: 2672.965 $\pm$ 443.582 χ^2 /NDF: 57.8/62

In: 2235.906 $\pm$ 370.830 χ^2 /NDF:58.1/52

Out: 2077.104 $\pm$ 365.280 χ^2 /NDF:49.0/57

All: 2155.308 $\pm$ 260.232 χ^2 /NDF: 107.2/110

asym_usr_rms vs Slug, Sign Corrected



Right In: 2432.584 $\pm$ 0.445 χ^2/NDF : 1710384.9/29

Left Out: 1919.732 $\pm$ 0.318 χ^2/NDF : 366218.1/24

Right Out: 2507.138 $\pm$ 0.442 χ^2/NDF : 1782929.1/32

Left In: 1904.629 $\pm$ 0.325 χ^2/NDF : 447350.7/22

Left: 1912.331 $\pm$ 0.227 χ^2/NDF : 814672.9/47

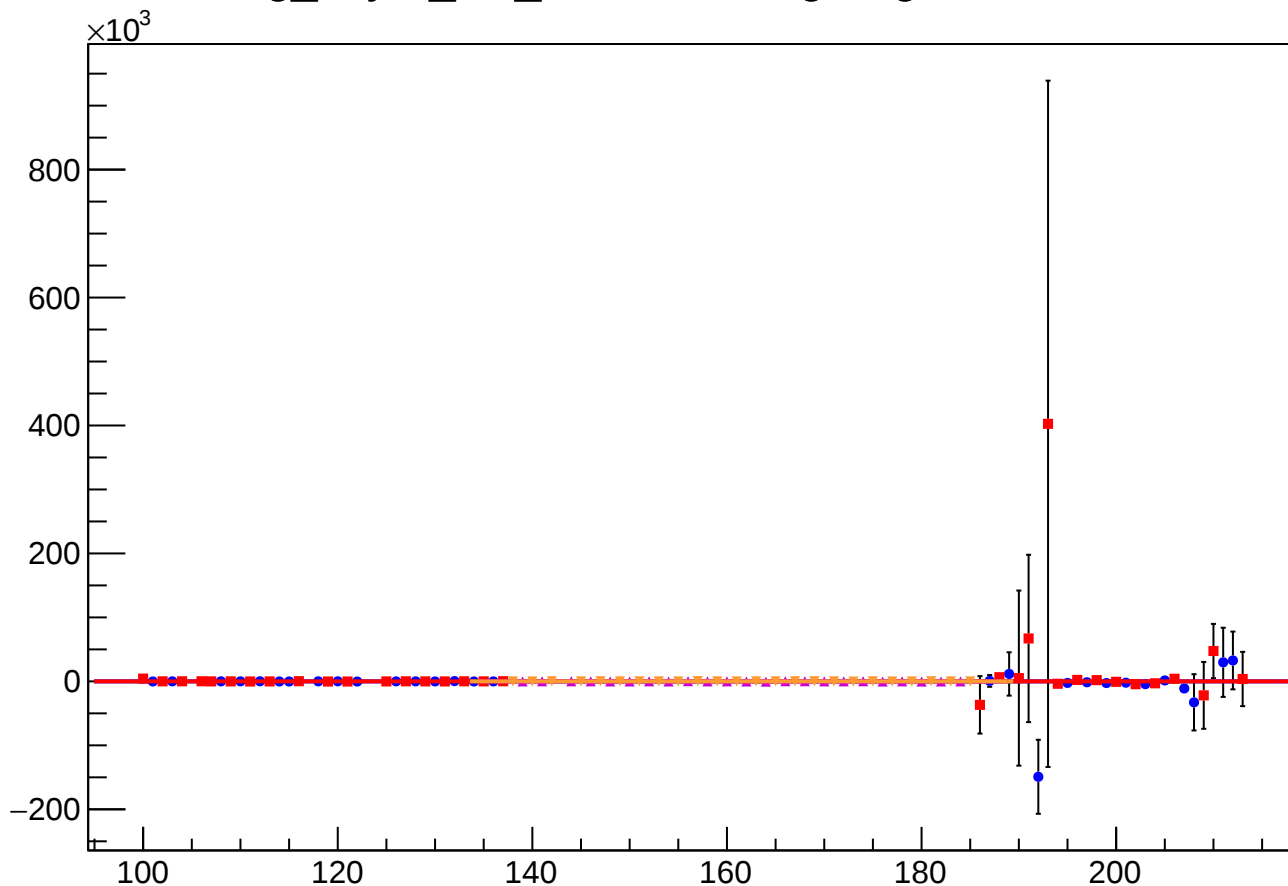
Right: 2470.079 $\pm$ 0.314 χ^2/NDF : 3507437.9/62

In: 2088.038 $\pm$ 0.262 χ^2/NDF : 3076805.4/52

Out: 2120.061 $\pm$ 0.258 χ^2/NDF : 3311454.4/57

All: 2104.291 $\pm$ 0.184 χ^2/NDF : 6395829.3/11

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.343 ± 36.762 $\chi^2/\text{NDF}: 32.8/28$

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

Right Out: 1.857 ± 36.747 $\chi^2/\text{NDF}: 20.9/32$

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

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

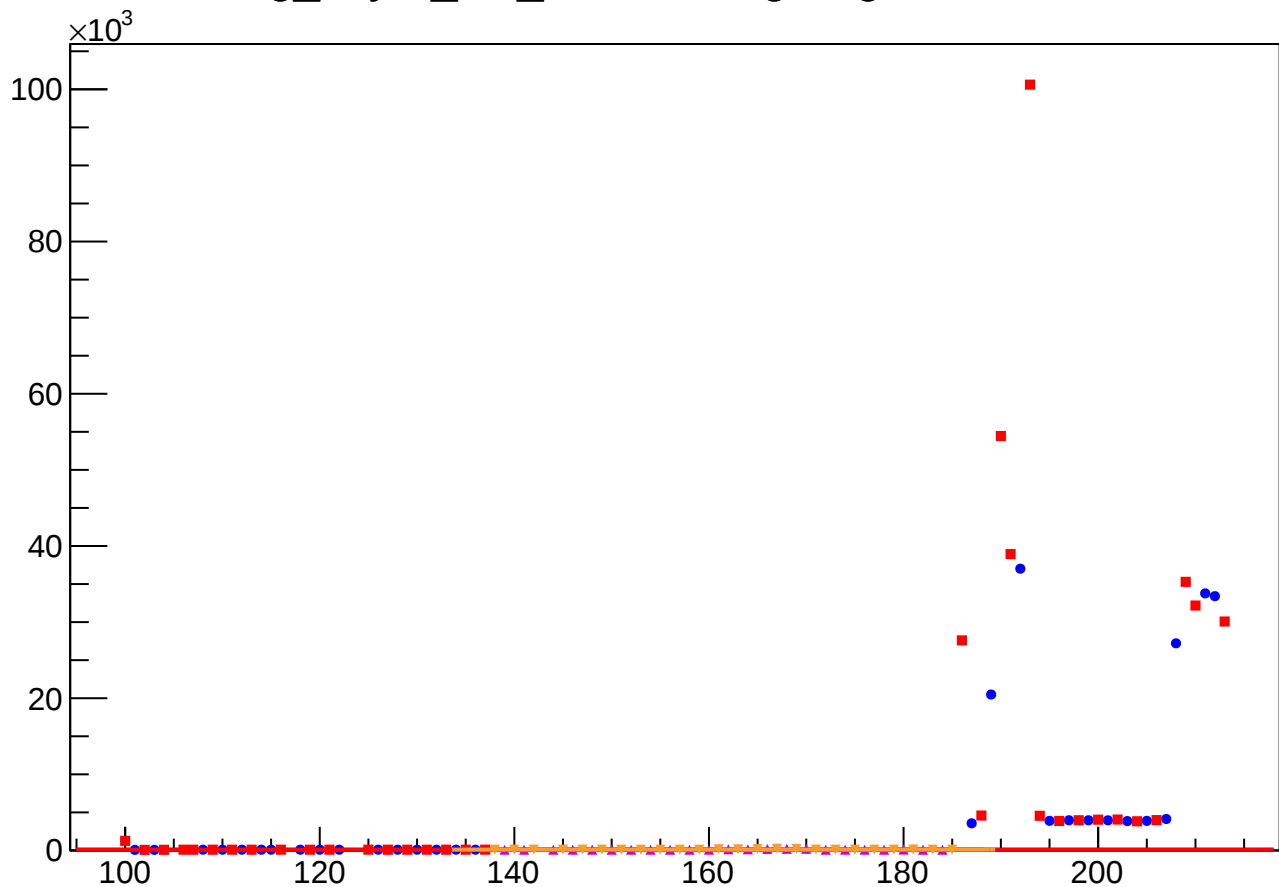
Right: -0.242 ± 25.989 $\chi^2/\text{NDF}: 53.7/61$

In: 15.582 ± 21.413 $\chi^2/\text{NDF}: 69.6/51$

Out: 8.743 ± 21.365 $\chi^2/\text{NDF}: 56.8/56$

All: 12.155 ± 15.124 $\chi^2/\text{NDF}: 126.5/108$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.092 $\pm$ 0.026 χ^2 /NDF: 15448268.9/28

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

Right Out: 98.293 $\pm$ 0.026 χ^2 /NDF: 15544339.4/32

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

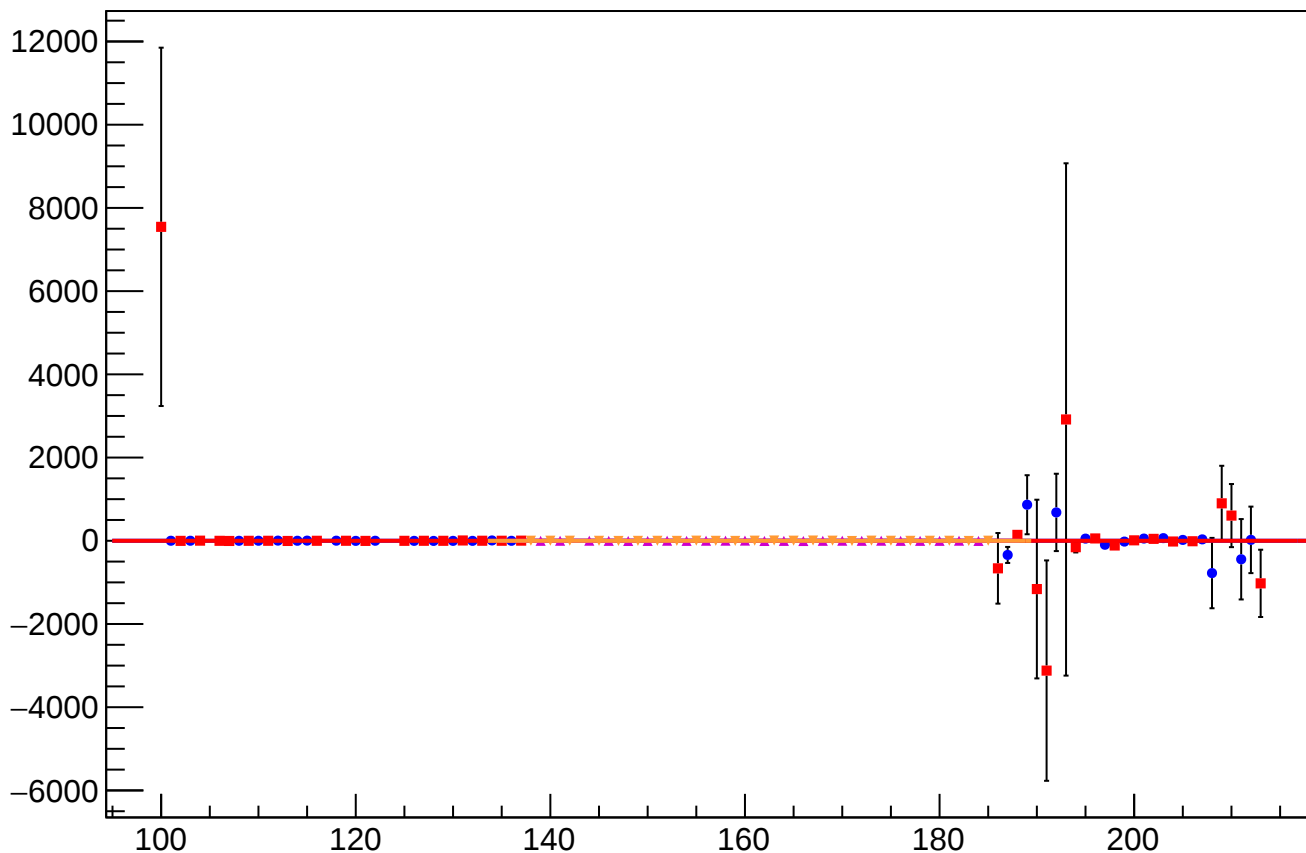
Right: 97.193 $\pm$ 0.018 χ^2 /NDF: 30996193.3/61

In: 103.743 $\pm$ 0.015 χ^2 /NDF: 17070429.3/51

Out: 104.758 $\pm$ 0.015 χ^2 /NDF: 17072839.3/56

All: 104.252 $\pm$ 0.011 χ^2 /NDF: 34145518.3/10

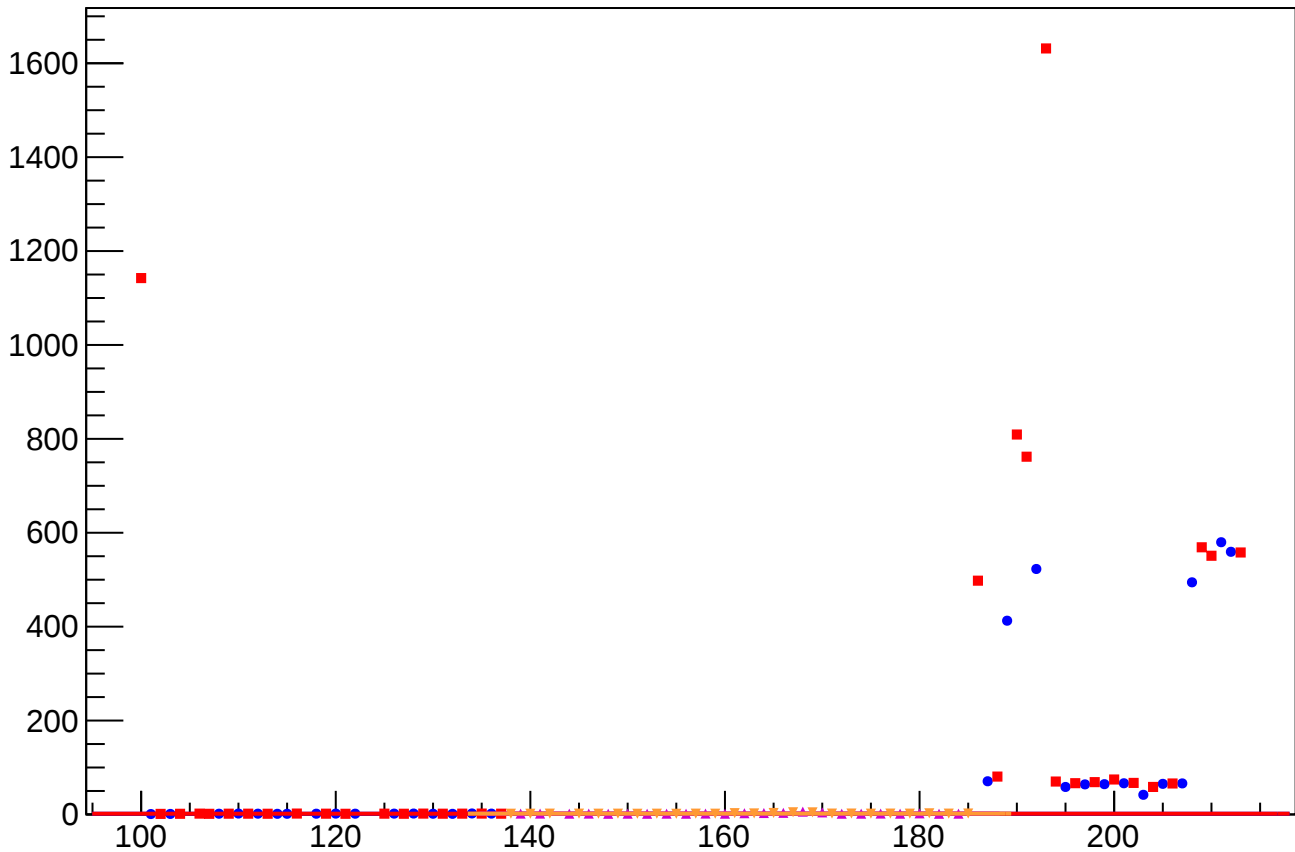
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.397+/-0.617 χ^2/NDF : 20.5/28
Left Out: -0.534+/-0.475 χ^2/NDF : 30.5/23
Right Out: -0.346+/-0.644 χ^2/NDF : 32.9/32
Left In: -0.067+/-0.485 χ^2/NDF : 25.0/22

Left: -0.306+/-0.339 χ^2/NDF : 56.0/46
Right: 0.041+/-0.445 χ^2/NDF : 54.1/61
In: 0.110+/-0.381 χ^2/NDF : 45.8/51
Out: -0.468+/-0.382 χ^2/NDF : 63.5/56
All: -0.178+/-0.270 χ^2/NDF : 110.4/108

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.450+/-0.000 χ^2/NDF : 13459342.2/28

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

Right Out: 1.585+/-0.000 χ^2/NDF : 13730884.6/32

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

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

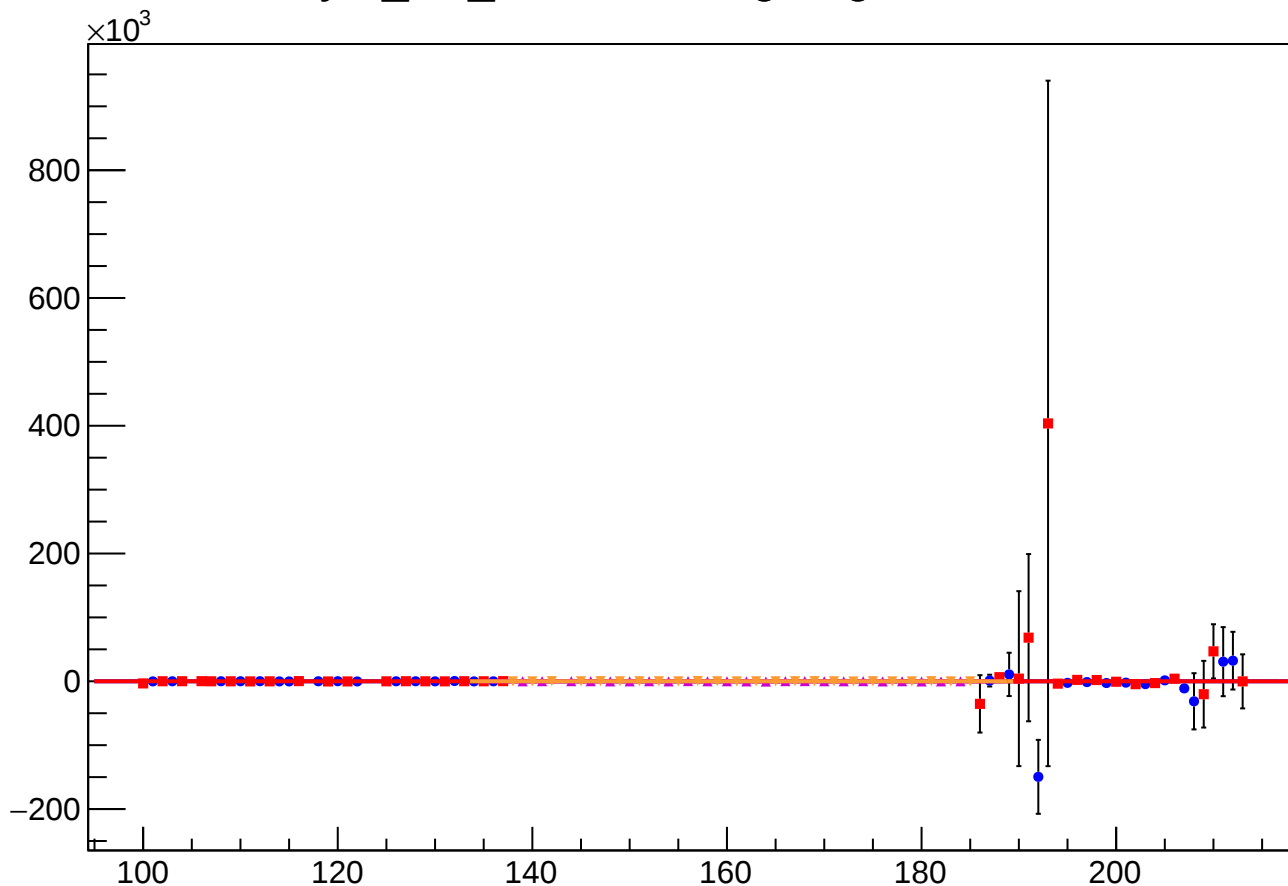
Right: 1.515+/-0.000 χ^2/NDF : 27235984.5/61

In: 1.668+/-0.000 χ^2/NDF :15783282.0/51

Out: 1.706+/-0.000 χ^2/NDF :15438642.5/56

All: 1.687+/-0.000 χ^2/NDF : 31231602.6/108

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.056 ± 36.771 χ^2/NDF : 33.1/28

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

Right Out: 1.620 ± 36.757 χ^2/NDF : 20.3/32

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

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

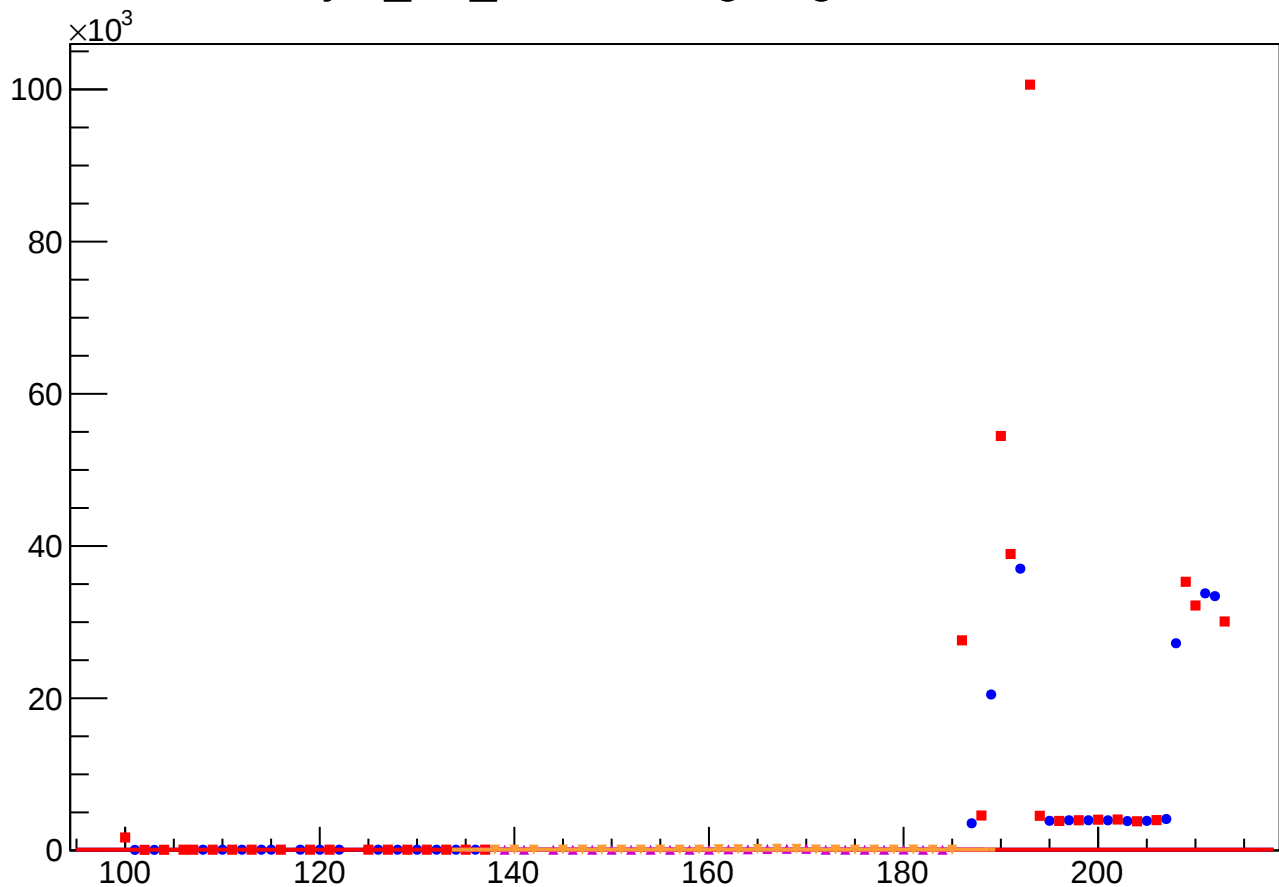
Right: -0.217 ± 25.996 χ^2/NDF : 53.4/61

In: 16.026 ± 21.419 χ^2/NDF : 69.2/51

Out: 9.118 ± 21.372 χ^2/NDF : 56.1/56

All: 12.564 ± 15.129 χ^2/NDF : 125.3/108

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.117 $\pm$ 0.026 χ^2 /NDF: 15448281.1/28

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

Right Out: 98.302 $\pm$ 0.026 χ^2 /NDF: 15549645.7/32

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

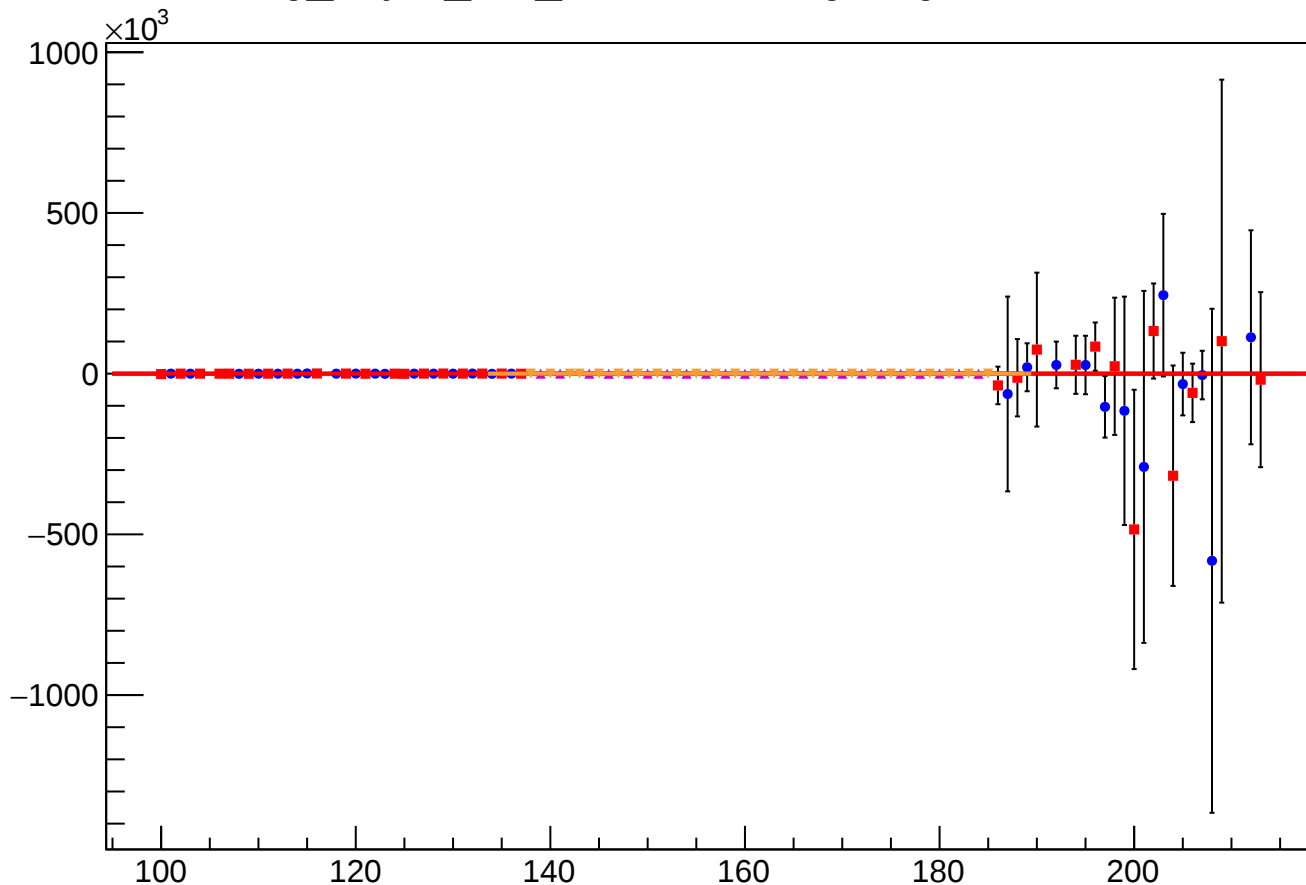
Right: 97.210 $\pm$ 0.018 χ^2 /NDF: 31001459.8/61

In: 103.772 $\pm$ 0.015 χ^2 /NDF: 17071808.9/51

Out: 104.781 $\pm$ 0.015 χ^2 /NDF: 17079892.8/56

All: 104.278 $\pm$ 0.011 χ^2 /NDF: 34153927.7/100

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.802 $\pm$ 46.841 χ^2 /NDF: 18.0/28

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

Right Out: 53.389 $\pm$ 47.775 χ^2 /NDF: 20.6/30

Left In: -65.335 $\pm$ 32.944 χ^2 /NDF:19.3/22

Left: -38.371 $\pm$ 22.977 χ^2 /NDF: 32.6/47

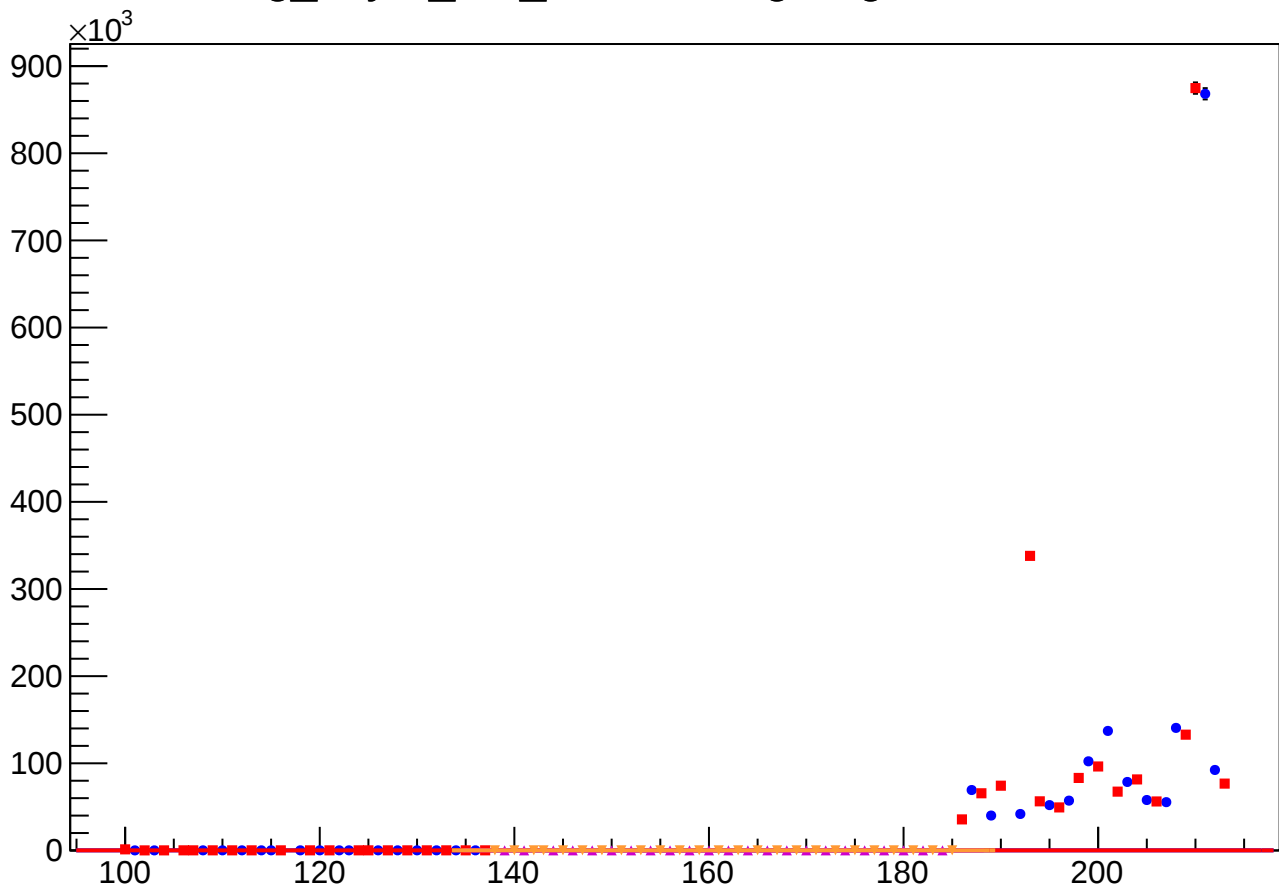
Right: 12.502 $\pm$ 33.447 χ^2 /NDF: 40.1/59

In: -52.583 $\pm$ 26.947 χ^2 /NDF:37.8/51

Out: 7.734 $\pm$ 26.623 χ^2 /NDF:34.0/55

All: -22.060 $\pm$ 18.939 χ^2 /NDF: 74.3/107

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.880+/-0.033 χ^2/NDF : 6718331.2/29

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

Right Out: 124.841+/-0.034 χ^2/NDF : 6452371.0/32

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

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

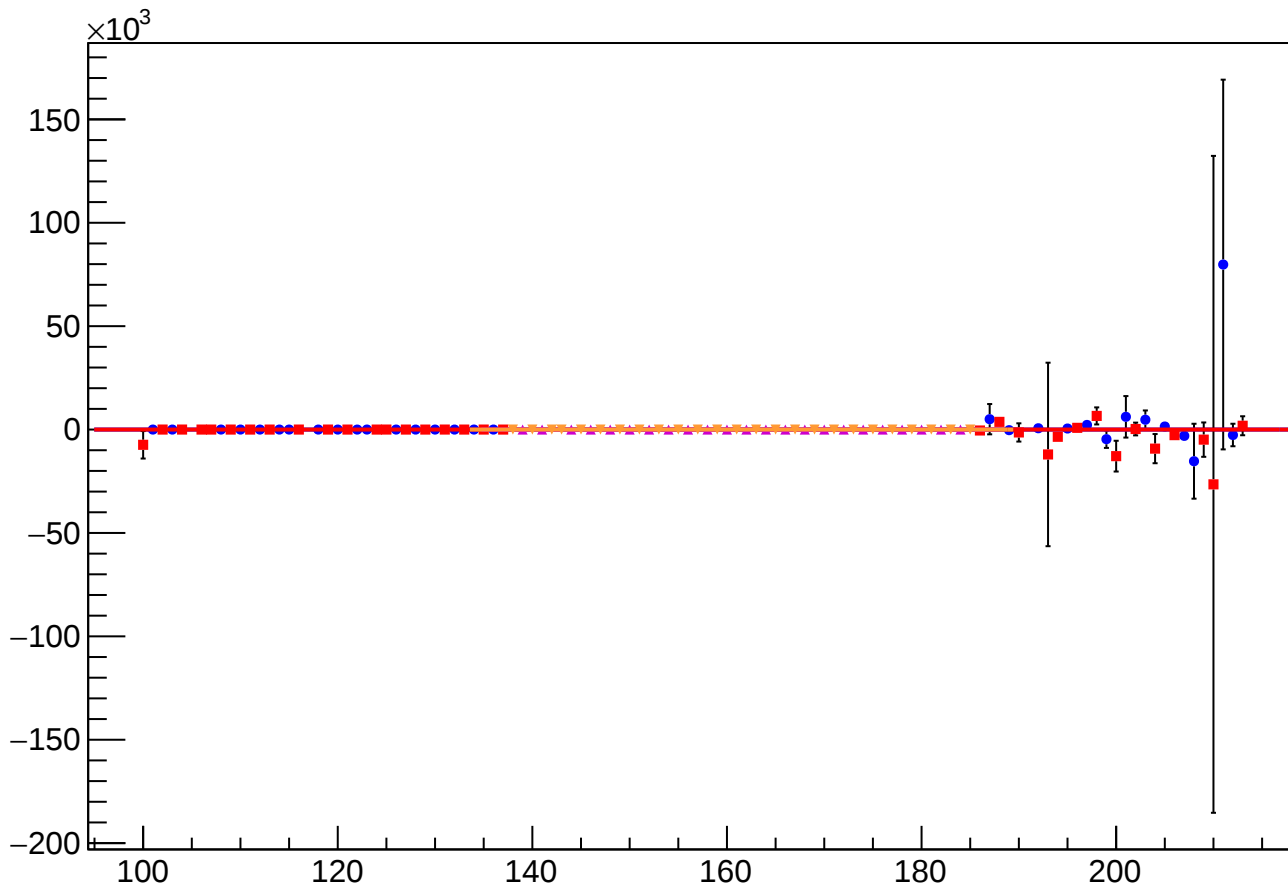
Right: 121.292+/-0.024 χ^2/NDF : 13192348.1/62

In: 131.211+/-0.019 χ^2/NDF : 6960896.5/52

Out: 133.815+/-0.019 χ^2/NDF : 6555165.1/57

All: 132.528+/-0.013 χ^2/NDF : 13525512.8/11

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 $\chi^2/\text{NDF}: 25.0/29$

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

Right Out: -0.639 ± 0.852 $\chi^2/\text{NDF}: 32.7/32$

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

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

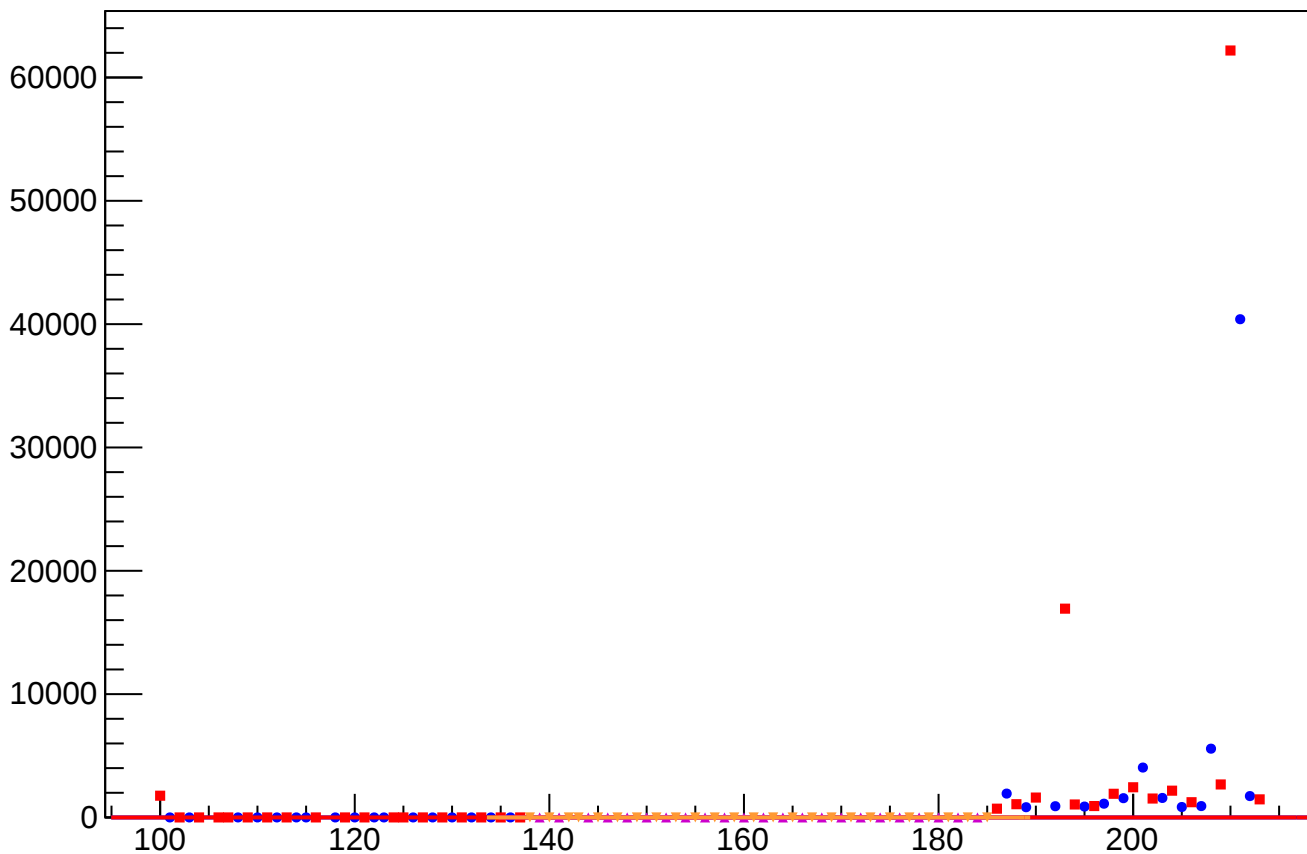
Right: -0.681 ± 0.587 $\chi^2/\text{NDF}: 57.8/62$

In: -0.052 ± 0.471 $\chi^2/\text{NDF}: 46.7/52$

Out: 0.139 ± 0.475 $\chi^2/\text{NDF}: 62.9/57$

All: 0.043 ± 0.334 $\chi^2/\text{NDF}: 109.7/110$

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867+/-0.001 χ^2/NDF : 6427250.6/29

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

Right Out: 2.065+/-0.001 χ^2/NDF : 6790051.4/32

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

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

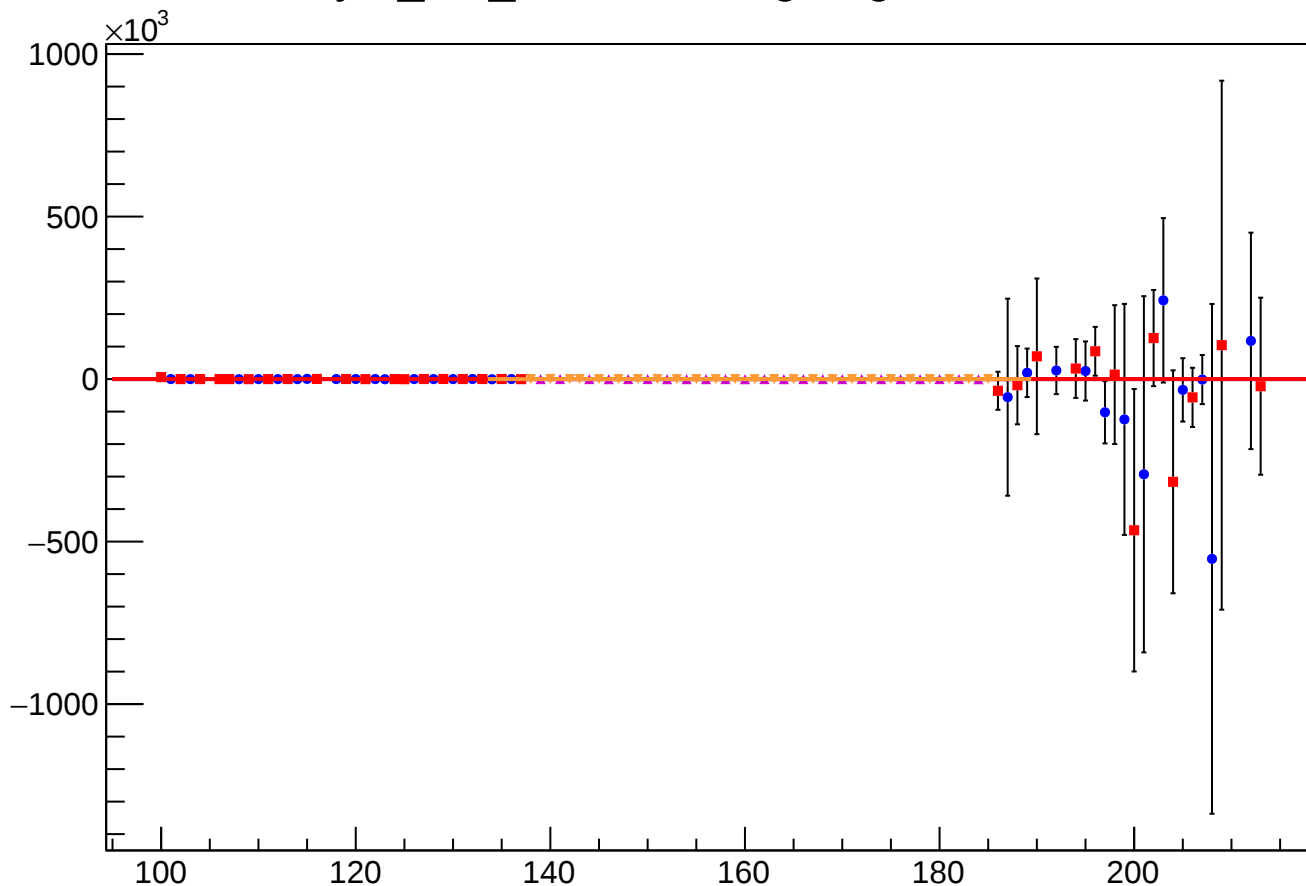
Right: 1.961+/-0.000 χ^2/NDF : 13274181.1/62

In: 2.083+/-0.000 χ^2/NDF :7152469.1/52

Out: 2.201+/-0.000 χ^2/NDF :7238425.8/57

All: 2.141+/-0.000 χ^2/NDF : 14453269.6/110

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.064 ± 46.854 χ^2/NDF : 18.0/28

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

Right Out: 54.291 ± 47.789 χ^2/NDF : 21.1/30

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

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

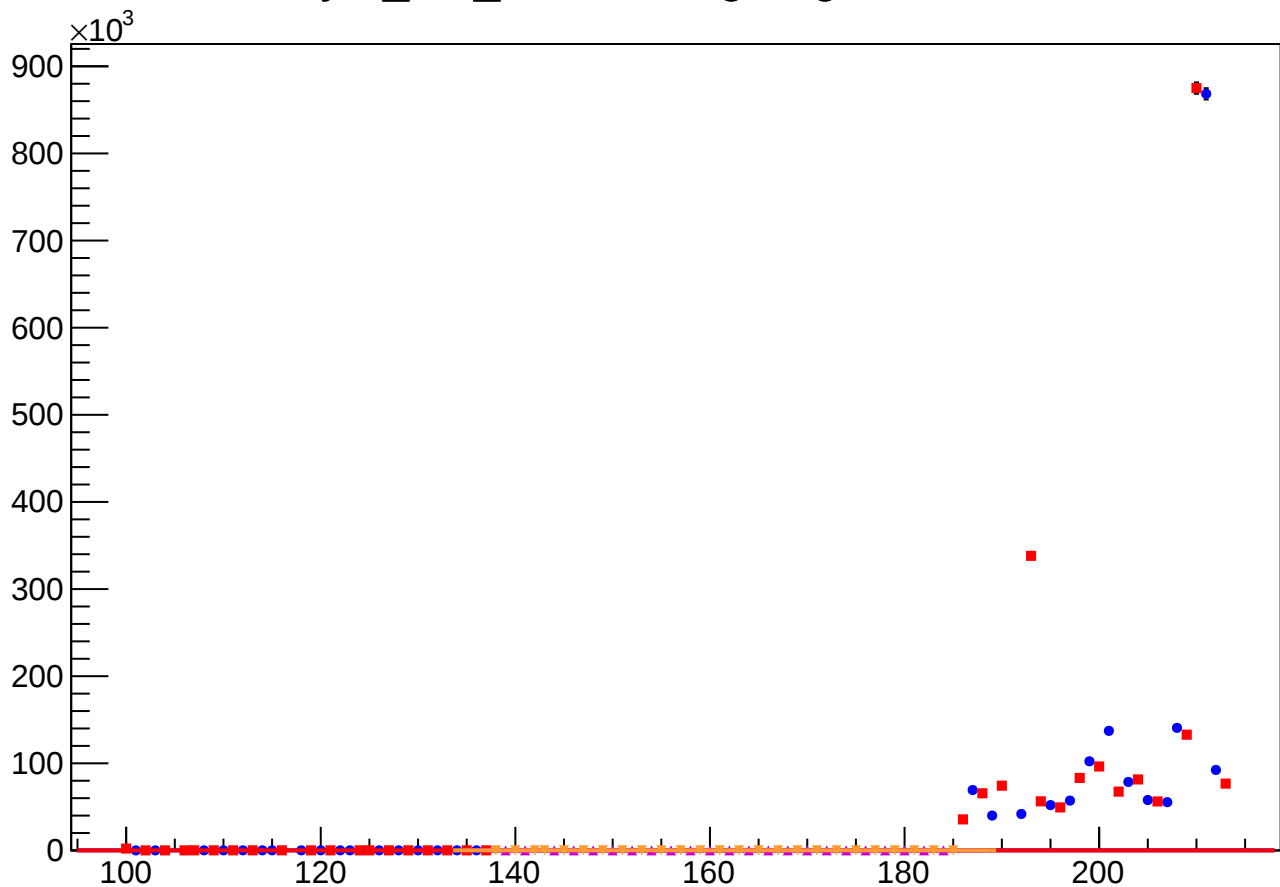
Right: 13.830 ± 33.456 χ^2/NDF : 40.5/59

In: -51.938 ± 26.954 χ^2/NDF : 37.9/51

Out: 7.632 ± 26.631 χ^2/NDF : 34.3/55

All: -21.793 ± 18.944 χ^2/NDF : 74.6/107

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.912 $\pm$ 0.033 χ^2 /NDF: 6718475.9/29

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

Right Out: 124.830 $\pm$ 0.034 χ^2 /NDF: 6463039.9/32

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

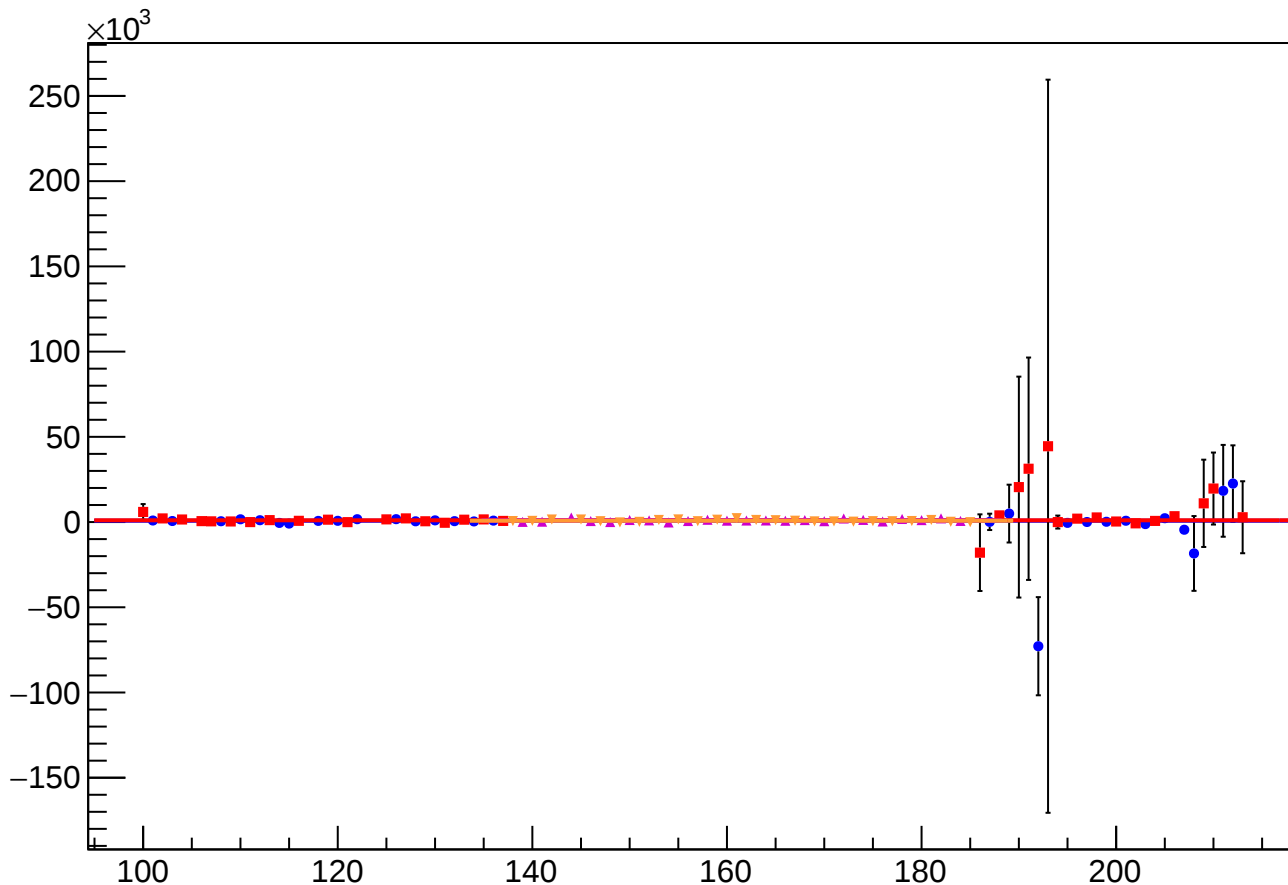
Right: 121.302 $\pm$ 0.024 χ^2 /NDF: 13202883.7/62

In: 131.247 $\pm$ 0.019 χ^2 /NDF:6961076.6/52

Out: 133.838 $\pm$ 0.019 χ^2 /NDF:6566553.9/57

All: 132.558 $\pm$ 0.013 χ^2 /NDF: 13536981.5/111

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 768.826 $\pm$ 209.854 χ^2 /NDF: 21.0/28

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

Right Out: 1039.694 $\pm$ 207.265 χ^2 /NDF: 19.6/32

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

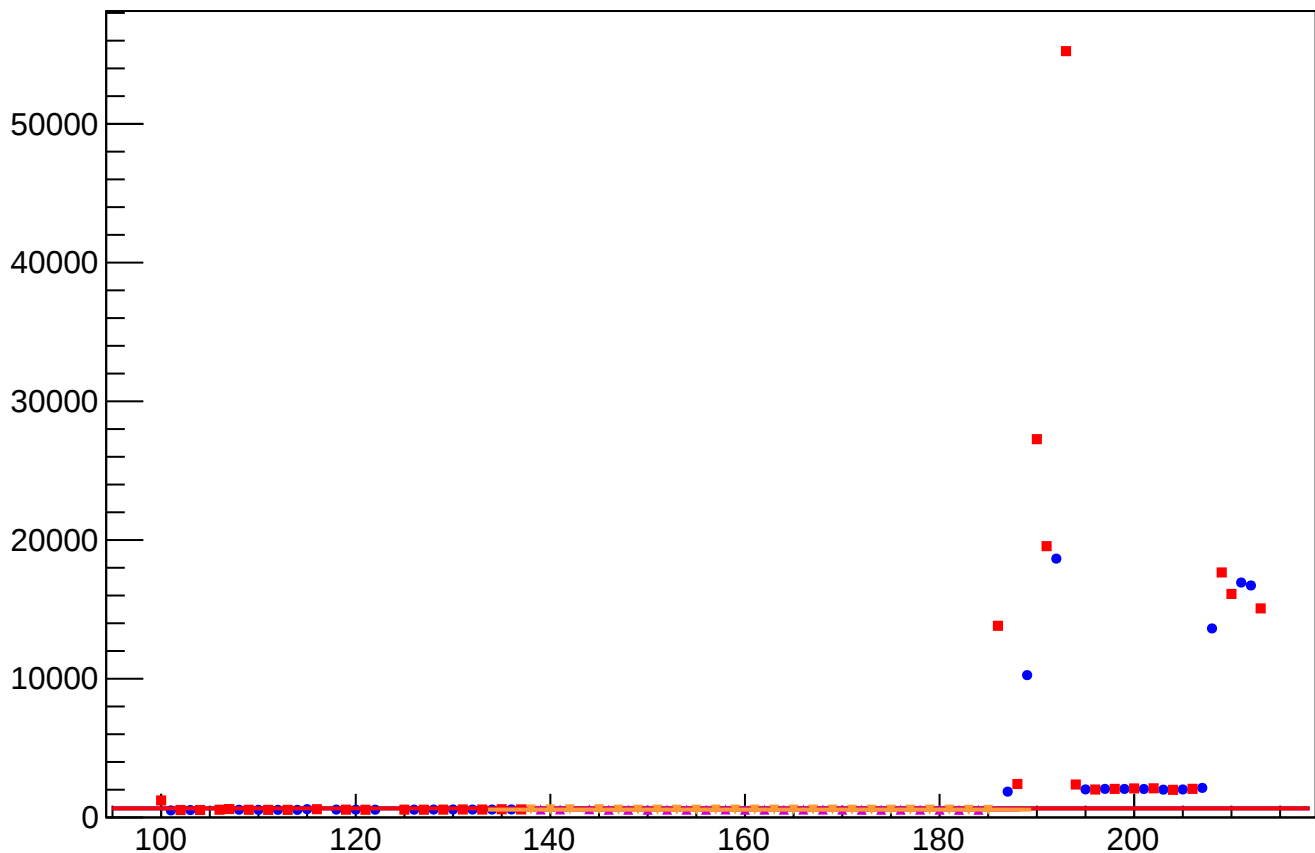
Right: 905.941 $\pm$ 147.465 χ^2 /NDF: 41.5/61

In: 914.271 $\pm$ 113.495 χ^2 /NDF: 49.1/51

Out: 859.676 $\pm$ 112.562 χ^2 /NDF: 39.9/56

All: 886.748 $\pm$ 79.921 χ^2 /NDF: 89.1/108

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 654.215+/-0.148

χ^2/NDF : 9694029.2/28

Left: 564.262+/-0.067

χ^2/NDF : 18806.8/46

Left Out: 564.143+/-0.095

χ^2/NDF : 9594.1/23

Right: 653.617+/-0.104

χ^2/NDF : 19771262.5/61

Right Out: 653.033+/-0.147

χ^2/NDF : 10077201.2/32

In: 590.659+/-0.080

χ^2/NDF : 9962526.4/51

Out: 590.360+/-0.080

χ^2/NDF : 10346158.4/56

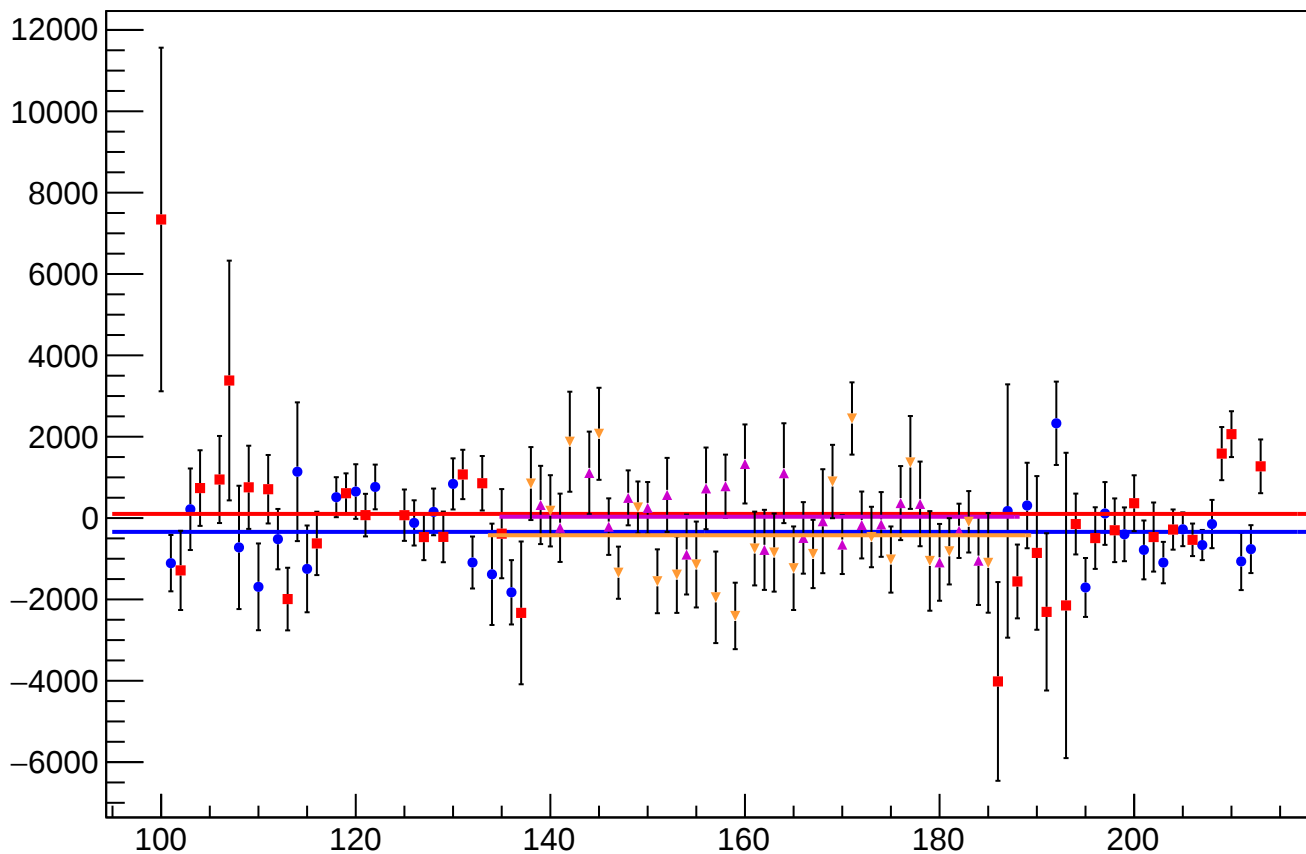
Left In: 564.383+/-0.095

χ^2/NDF : 9209.5/22

All: 590.508+/-0.057

χ^2/NDF : 20308691.8/10

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -339.667 $\pm$ 124.040 χ^2 /NDF: 40.1/28

Left Out: -422.681 $\pm$ 180.610 χ^2 /NDF:43.2/23

Right Out: 102.095 $\pm$ 129.210 χ^2 /NDF: 58.8/32

Left In: 32.411 $\pm$ 179.430 χ^2 /NDF:12.2/22

Left: -193.644 $\pm$ 127.291 χ^2 /NDF: 58.6/46

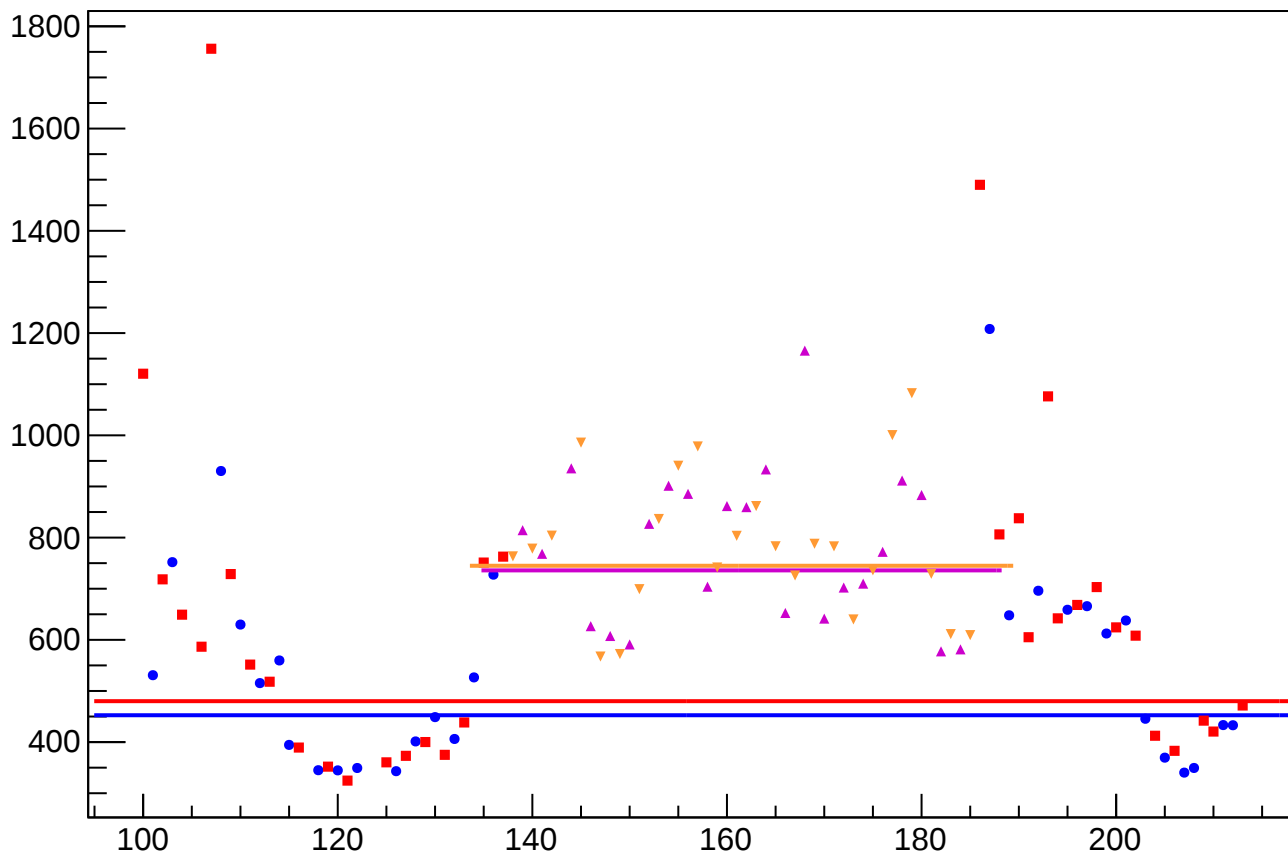
Right: -127.800 $\pm$ 89.482 χ^2 /NDF: 105.1/61

In: -219.351 $\pm$ 102.033 χ^2 /NDF:55.2/51

Out: -75.564 $\pm$ 105.087 χ^2 /NDF:107.6/56

All: -149.577 $\pm$ 73.204 χ^2 /NDF: 163.8/108

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 452.550+/-0.088 χ^2/NDF : 2246979.8/28

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

Right Out: 480.057+/-0.091 χ^2/NDF : 2952109.2/32

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

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

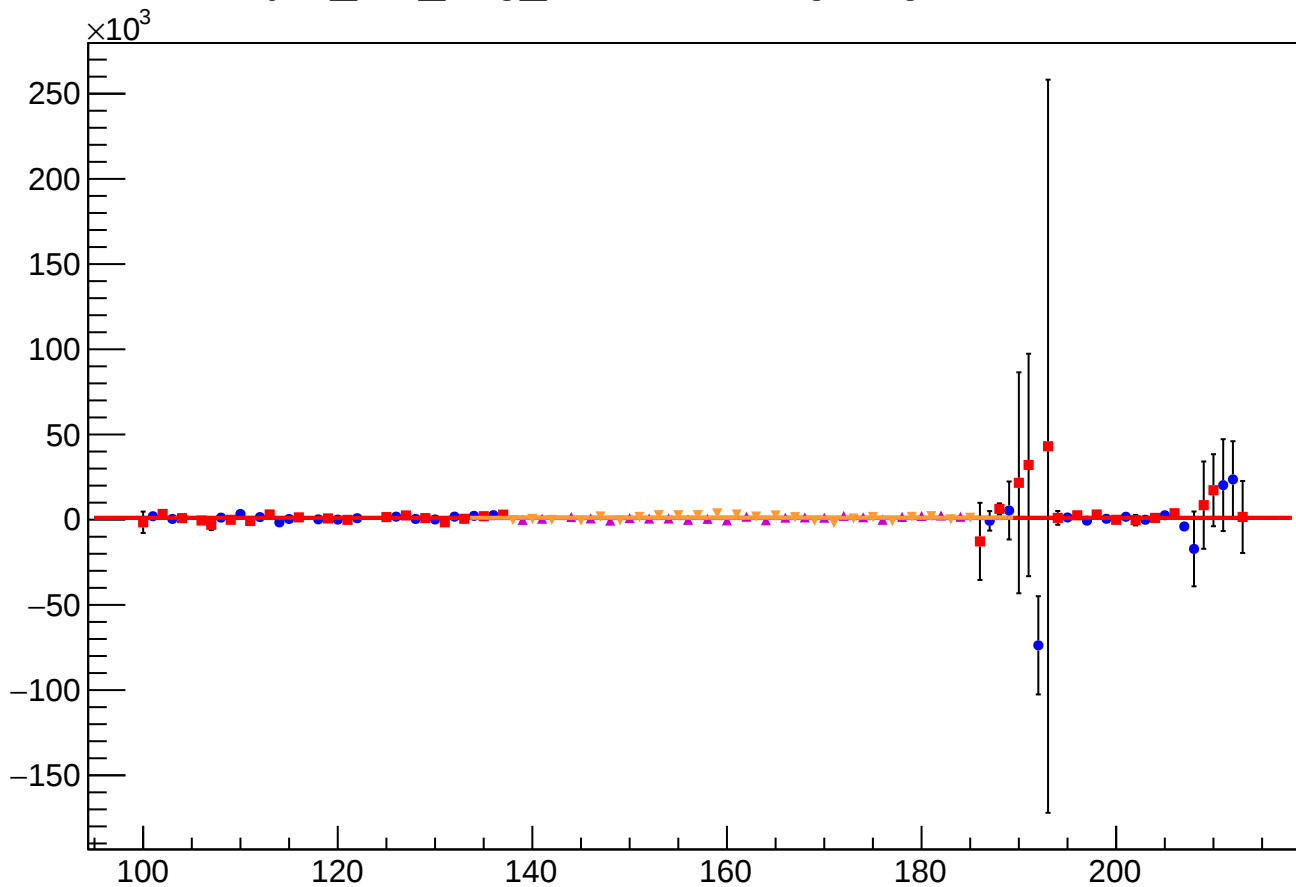
Right: 465.742+/-0.063 χ^2/NDF : 5246258.3/61

In: 544.159+/-0.072 χ^2/NDF :6725934.8/51

Out: 569.721+/-0.074 χ^2/NDF :6805788.2/56

All: 556.563+/-0.052 χ^2/NDF : 13592636.6/10

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1094.500 ± 280.591 $\chi^2/\text{NDF}: 26.8/28$

Left Out: 1137.936 ± 228.834 $\chi^2/\text{NDF}: 38.9/23$

Right Out: 1063.009 ± 280.349 $\chi^2/\text{NDF}: 30.4/32$

Left In: 941.702 ± 228.324 $\chi^2/\text{NDF}: 14.8/22$

Left: 1039.600 ± 161.629 $\chi^2/\text{NDF}: 54.0/46$

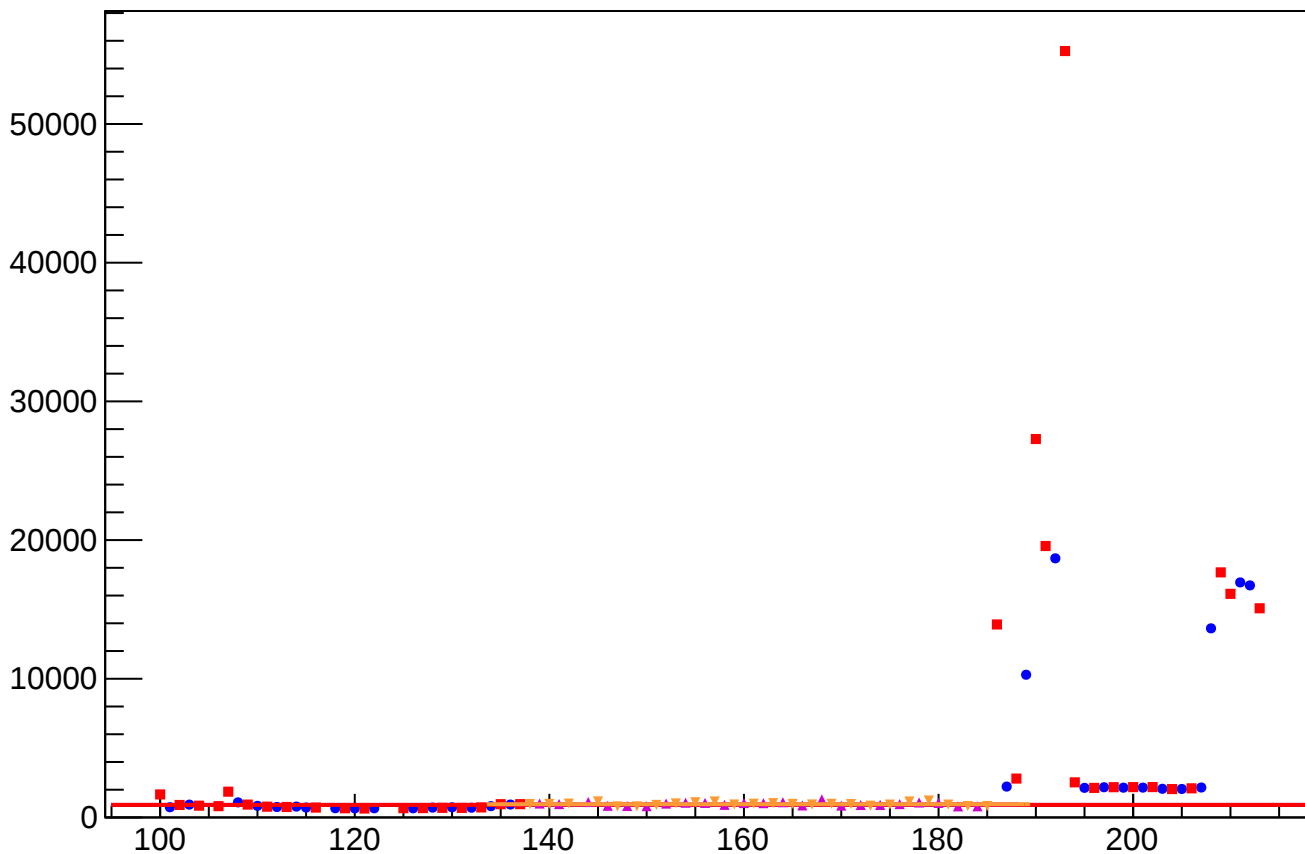
Right: 1078.741 ± 198.322 $\chi^2/\text{NDF}: 57.3/61$

In: 1002.572 ± 177.099 $\chi^2/\text{NDF}: 41.8/51$

Out: 1107.976 ± 177.276 $\chi^2/\text{NDF}: 69.4/56$

All: 1055.222 ± 125.290 $\chi^2/\text{NDF}: 111.3/108$

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 903.572+/-0.198 χ^2/NDF : 8376697.8/28

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

Right Out: 904.960+/-0.198 χ^2/NDF : 9140725.7/32

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

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

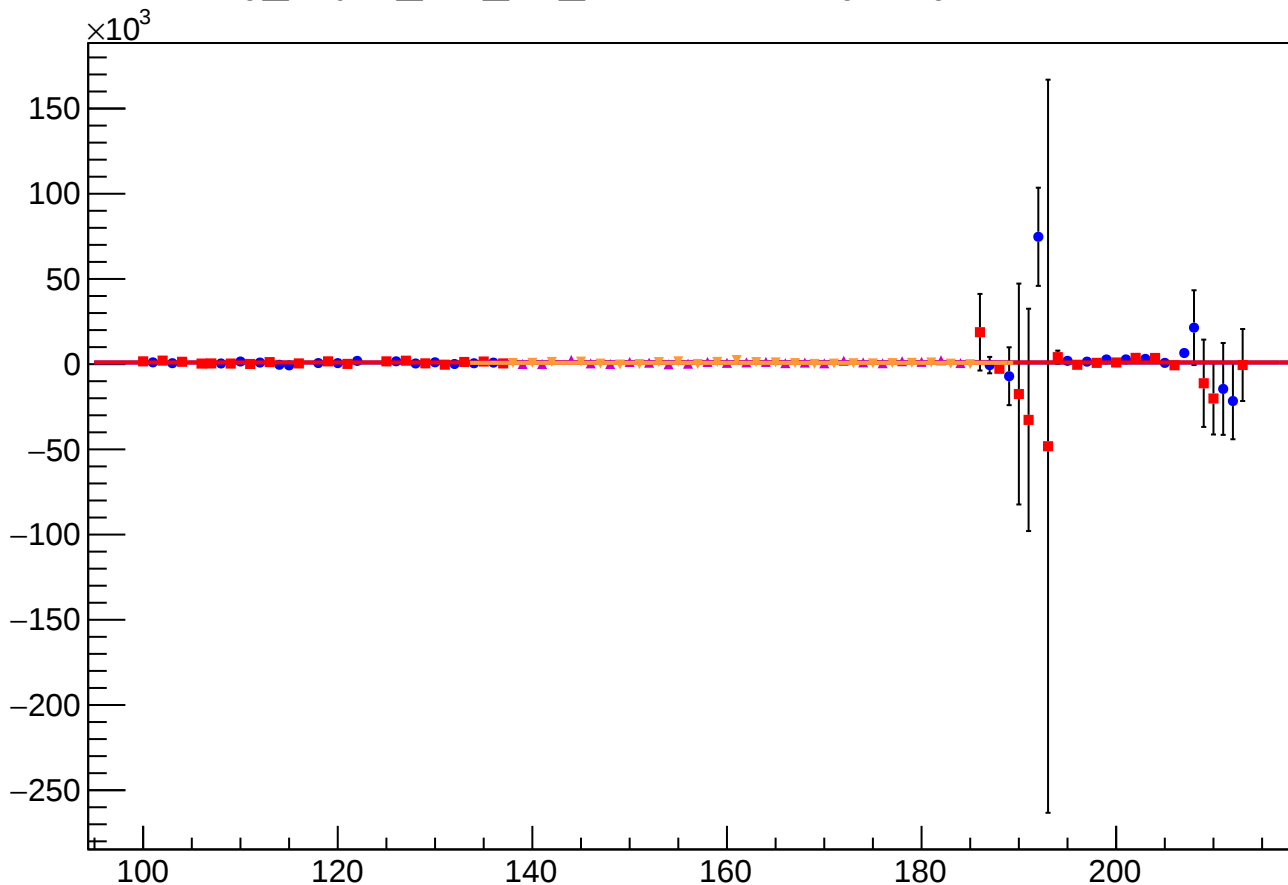
Right: 904.267+/-0.140 χ^2/NDF : 17517448.0/61

In: 929.442+/-0.125 χ^2/NDF : 8906324.6/51

Out: 934.591+/-0.125 χ^2/NDF : 9638101.2/56

All: 932.014+/-0.089 χ^2/NDF : 18545270.3/10

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 957.575 ± 209.723 χ^2/NDF : 23.7/28

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

Right Out: 1015.144 ± 202.652 χ^2/NDF : 20.1/32

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

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

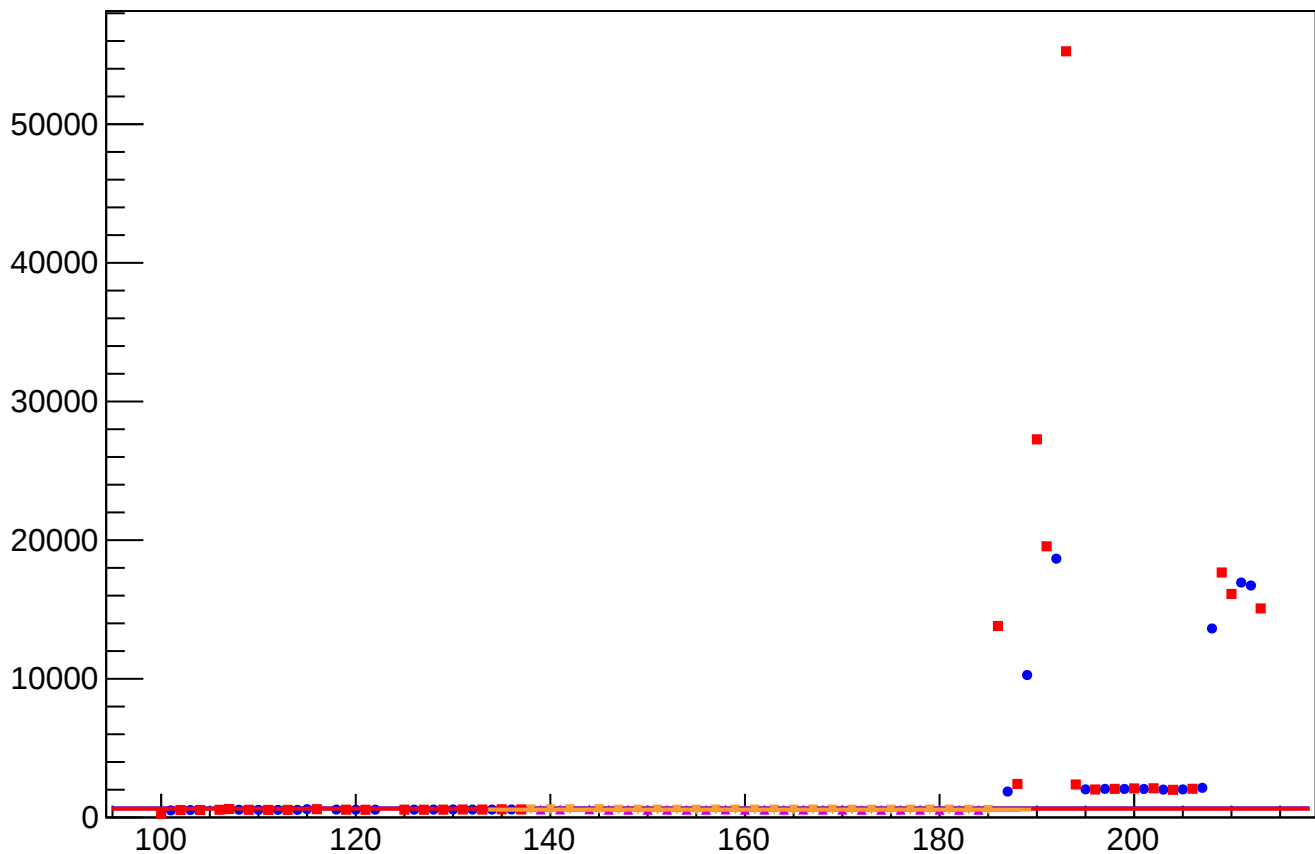
Right: 987.346 ± 145.732 χ^2/NDF : 43.8/61

In: 958.241 ± 113.411 χ^2/NDF : 50.5/51

Out: 835.931 ± 111.741 χ^2/NDF : 42.2/56

All: 896.179 ± 79.597 χ^2/NDF : 93.3/108

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 653.587+/-0.148 χ^2/NDF : 9707572.5/28

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

Right Out: 633.533+/-0.143 χ^2/NDF : 10386218.2/32

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

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

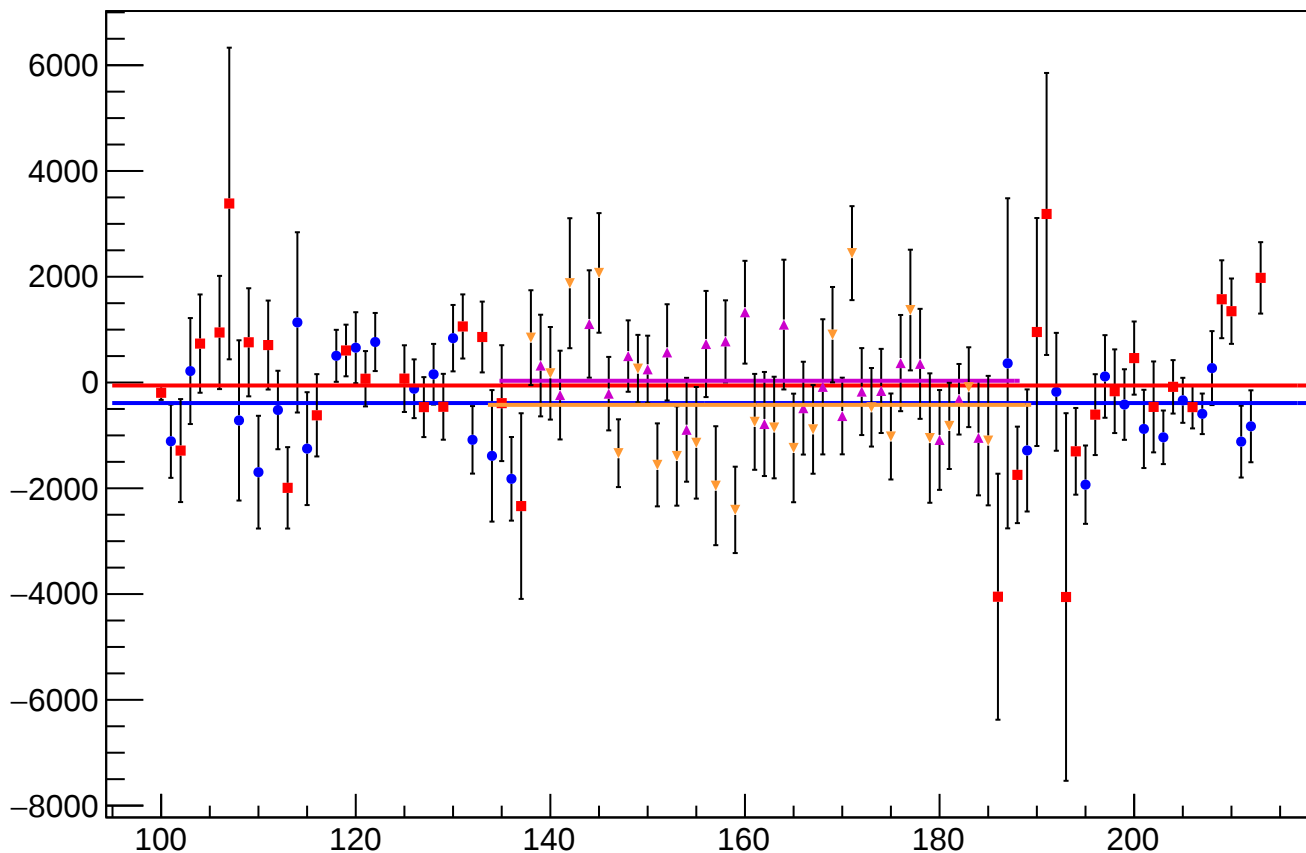
Right: 643.216+/-0.103 χ^2/NDF : 20103247.3/61

In: 590.151+/-0.080 χ^2/NDF : 9975383.0/51

Out: 584.914+/-0.079 χ^2/NDF : 10561168.6/56

All: 587.494+/-0.056 χ^2/NDF : 20538715.6/10

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -388.179+/-126.569 χ^2/NDF : 35.0/28

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

Right Out: -56.183+/-94.165 χ^2/NDF : 57.1/32

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

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

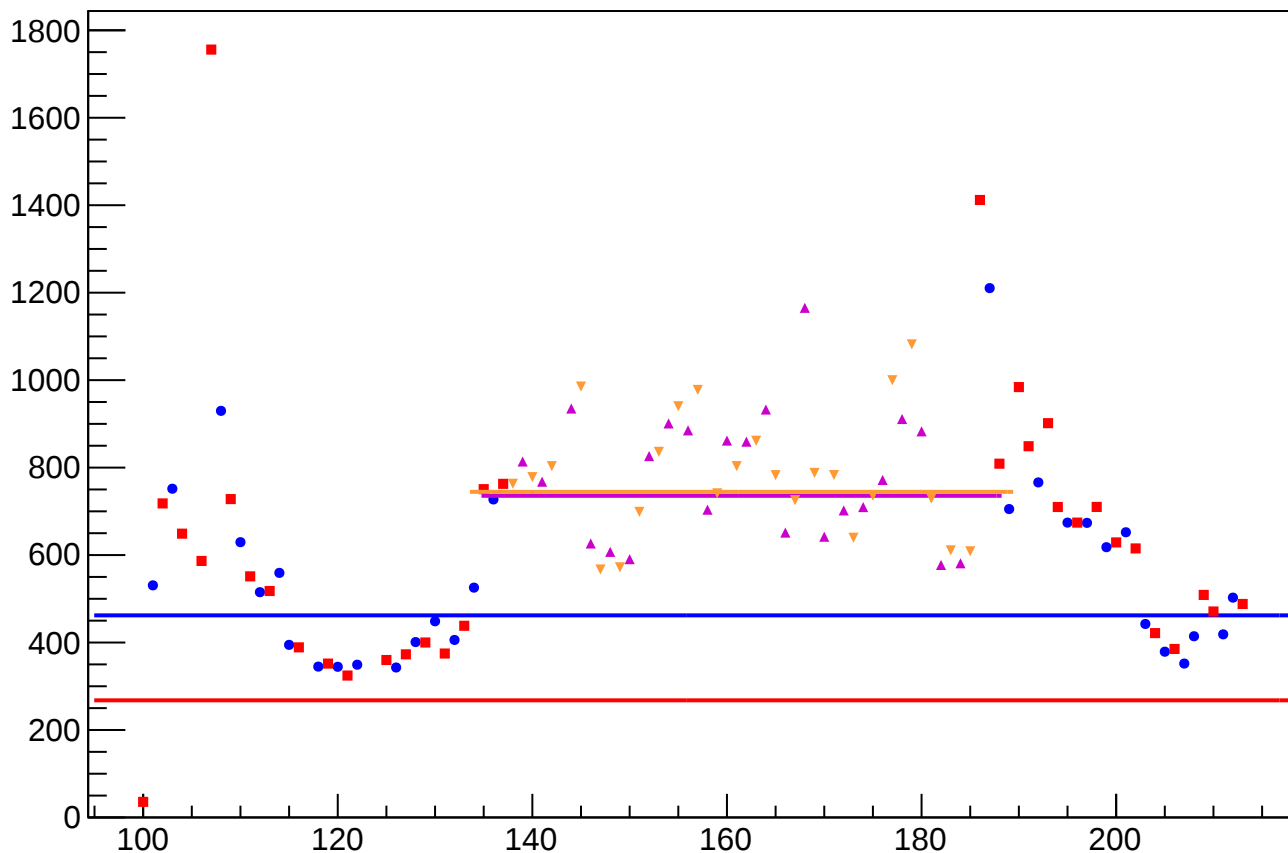
Right: -174.472+/-75.550 χ^2/NDF : 96.5/61

In: -248.054+/-103.412 χ^2/NDF : 50.8/51

Out: -134.492+/-83.490 χ^2/NDF : 103.6/56

All: -179.304+/-64.961 χ^2/NDF : 155.1/108

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 462.107+/-0.089 χ^2/NDF : 2245668.3/28

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

Right Out: 267.832+/-0.067 χ^2/NDF : 14497605.3/32

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

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

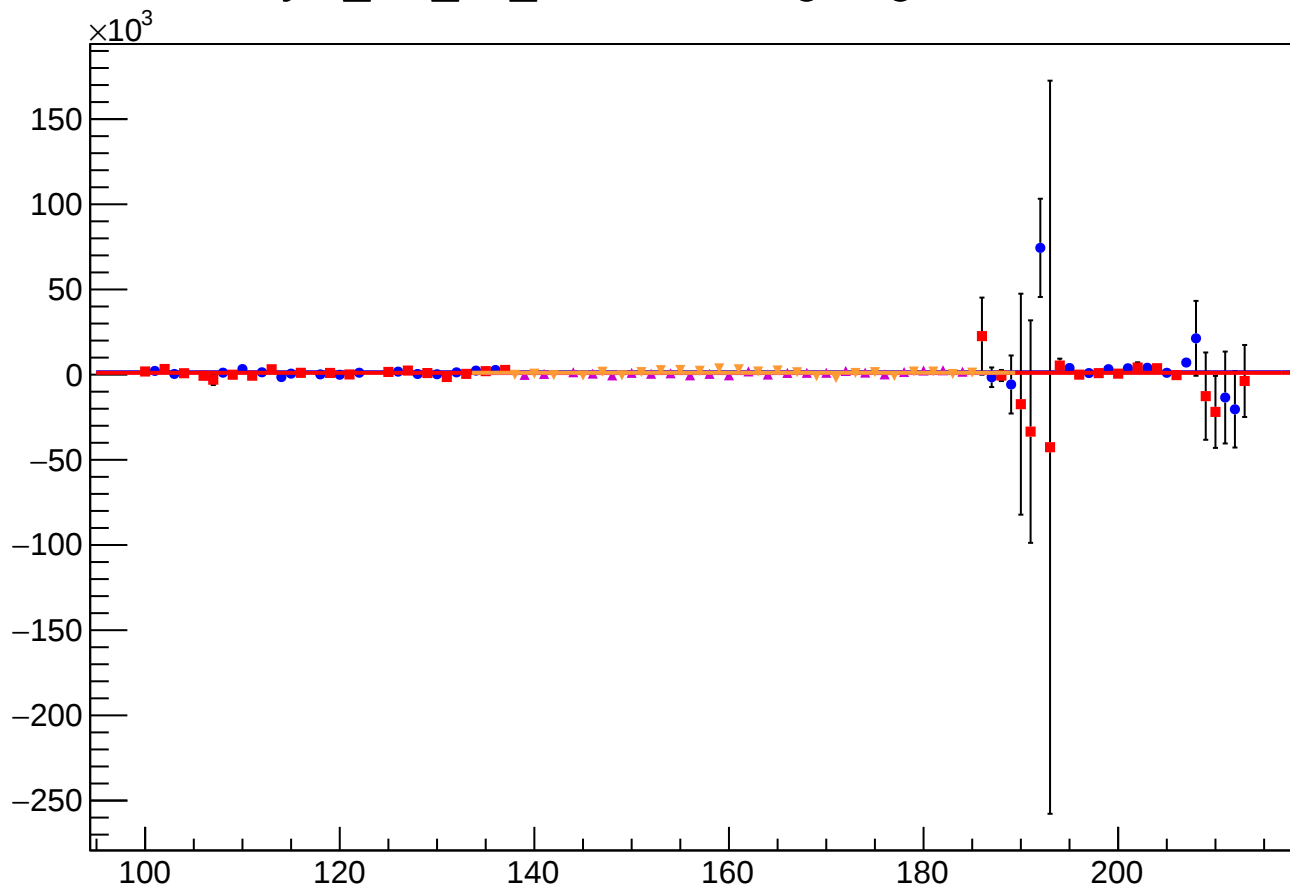
Right: 337.051+/-0.053 χ^2/NDF : 19776422.1/61

In: 553.008+/-0.073 χ^2/NDF : 6454049.4/51

Out: 369.801+/-0.059 χ^2/NDF : 26472582.1/56

All: 442.096+/-0.046 χ^2/NDF : 36726847.0/10

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1407.555 $\pm$ 280.495 χ^2 /NDF: 31.0/28

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

Right Out: 1069.537 $\pm$ 269.454 χ^2 /NDF: 29.5/32

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

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

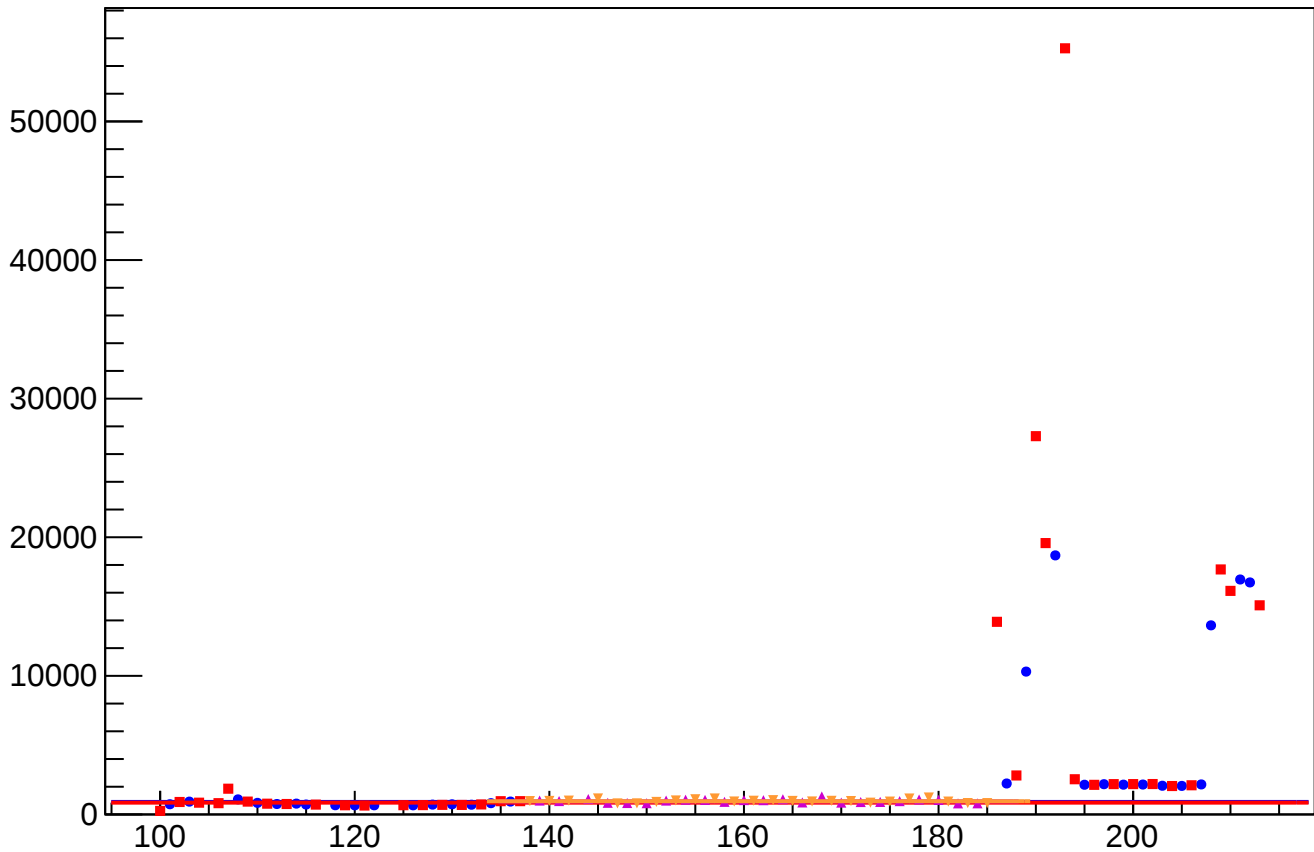
Right: 1231.763 $\pm$ 194.319 χ^2 /NDF: 61.2/61

In: 1117.956 $\pm$ 177.016 χ^2 /NDF:47.9/51

Out: 1090.234 $\pm$ 174.363 χ^2 /NDF:67.8/56

All: 1103.886 $\pm$ 124.220 χ^2 /NDF: 115.7/108

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 902.829+/-0.198 χ^2/NDF : 8396938.6/28

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

Right Out: 852.774+/-0.191 χ^2/NDF : 9950654.1/32

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

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

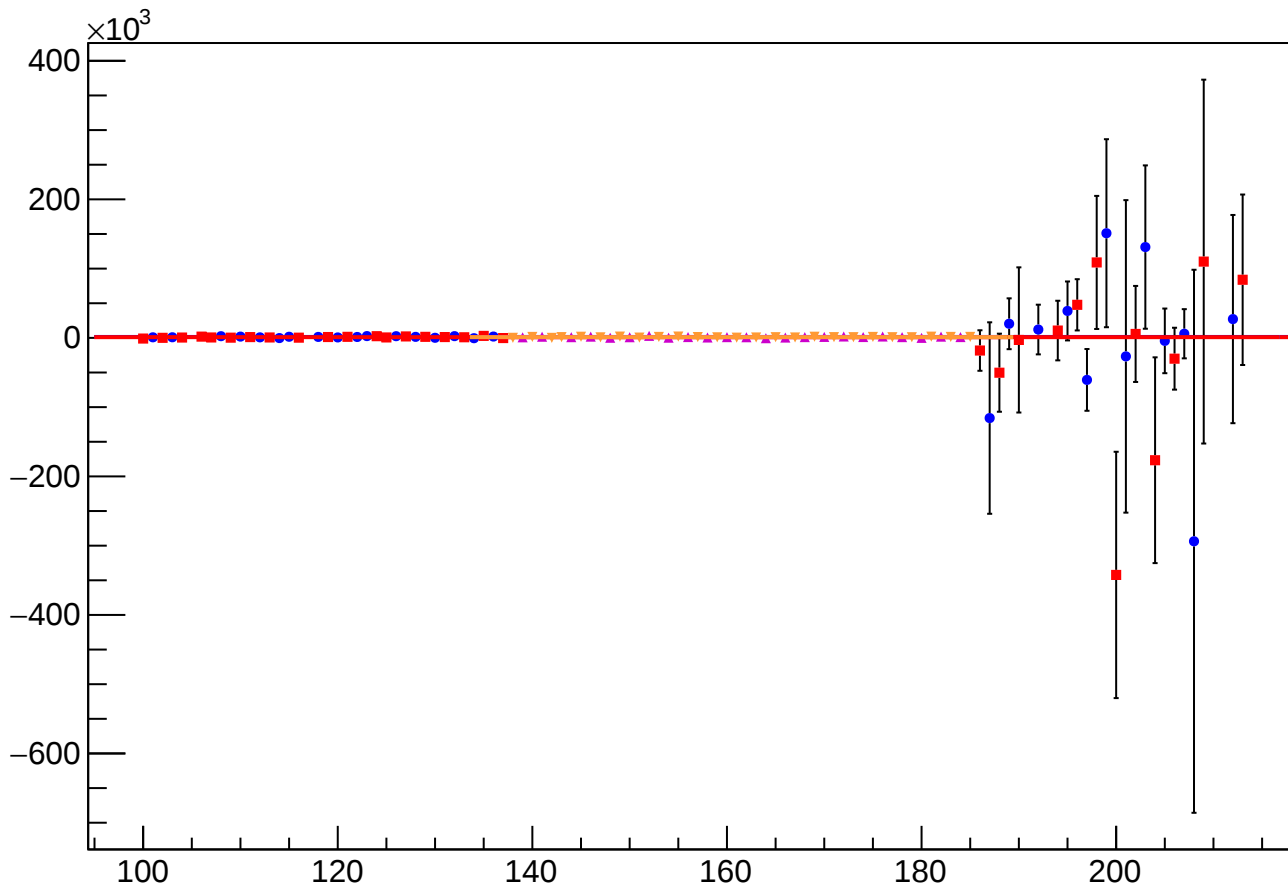
Right: 876.797+/-0.137 χ^2/NDF : 18380716.0/61

In: 928.831+/-0.125 χ^2/NDF : 8926943.2/51

Out: 911.486+/-0.123 χ^2/NDF : 10574221.2/56

All: 920.028+/-0.088 χ^2/NDF : 19510910.6/10

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.156 $\pm$ 218.579 χ^2 /NDF: 19.7/28

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

Right Out: 1039.846 $\pm$ 212.061 χ^2 /NDF: 23.9/30

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

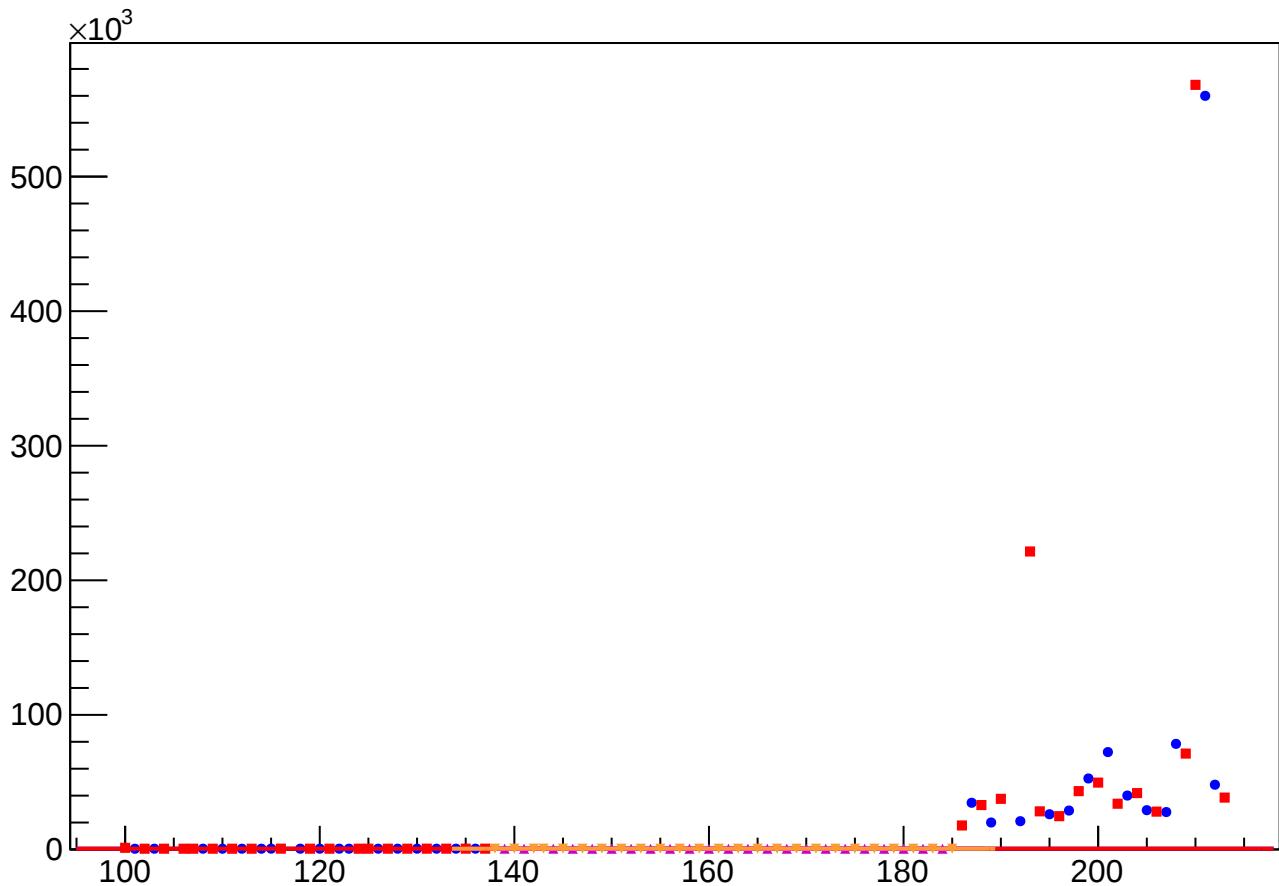
Right: 1178.184 $\pm$ 152.202 χ^2 /NDF: 44.5/59

In: 1178.346 $\pm$ 113.721 χ^2 /NDF:50.3/51

Out: 1064.431 $\pm$ 110.639 χ^2 /NDF:39.1/55

All: 1119.824 $\pm$ 79.301 χ^2 /NDF: 89.9/107

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.631 $\pm$ 0.155 χ^2 /NDF: 6063366.0/29

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

Right Out: 569.865 $\pm$ 0.150 χ^2 /NDF: 5927423.9/32

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

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

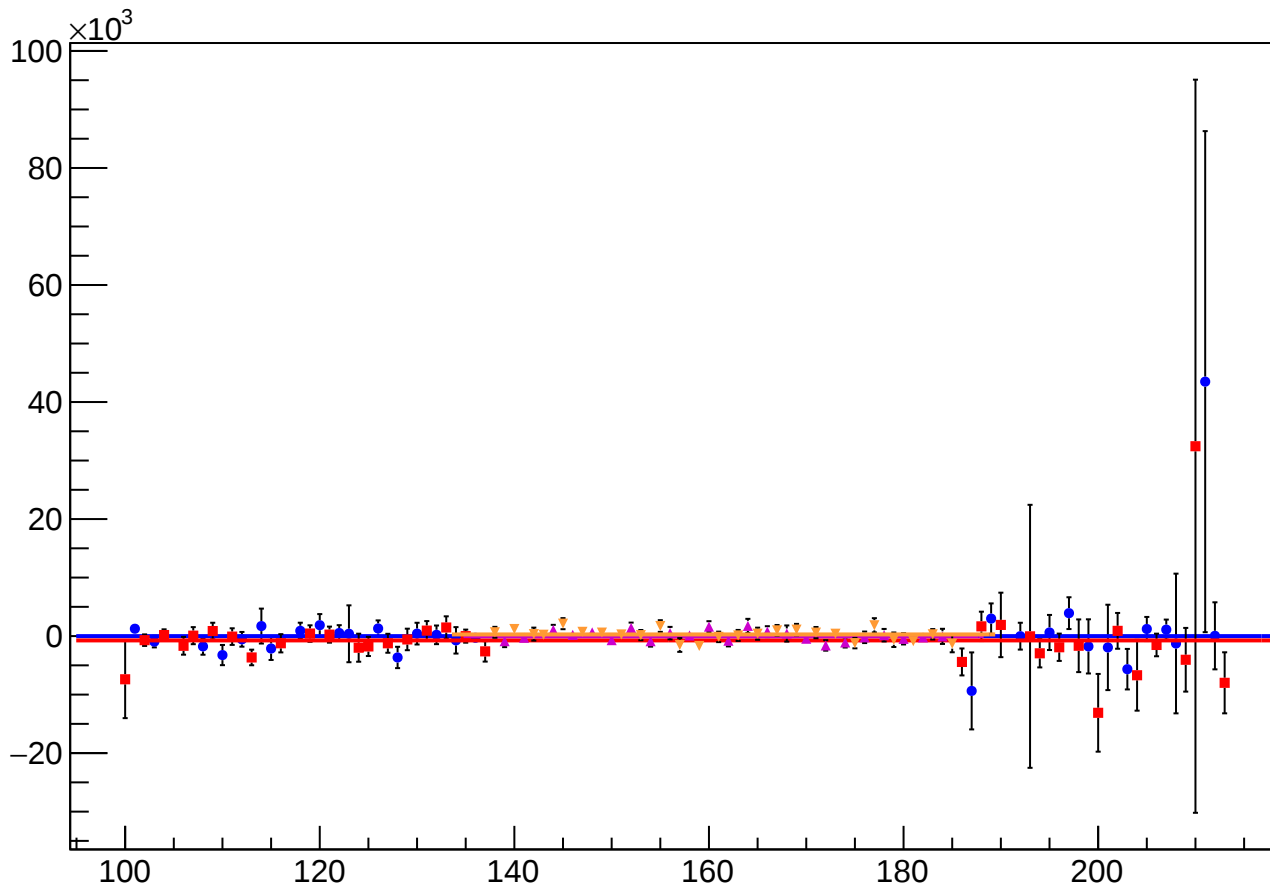
Right: 569.267 $\pm$ 0.108 χ^2 /NDF: 11990822.8/62

In: 560.126 $\pm$ 0.080 χ^2 /NDF:6078727.8/52

Out: 560.891 $\pm$ 0.078 χ^2 /NDF:5947098.3/57

All: 560.519 $\pm$ 0.056 χ^2 /NDF: 12025872.5/111

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -6.028 ± 306.433 $\chi^2/\text{NDF}: 27.3/29$

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

Right Out: -739.150 ± 311.558 $\chi^2/\text{NDF}: 27.2/32$

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

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

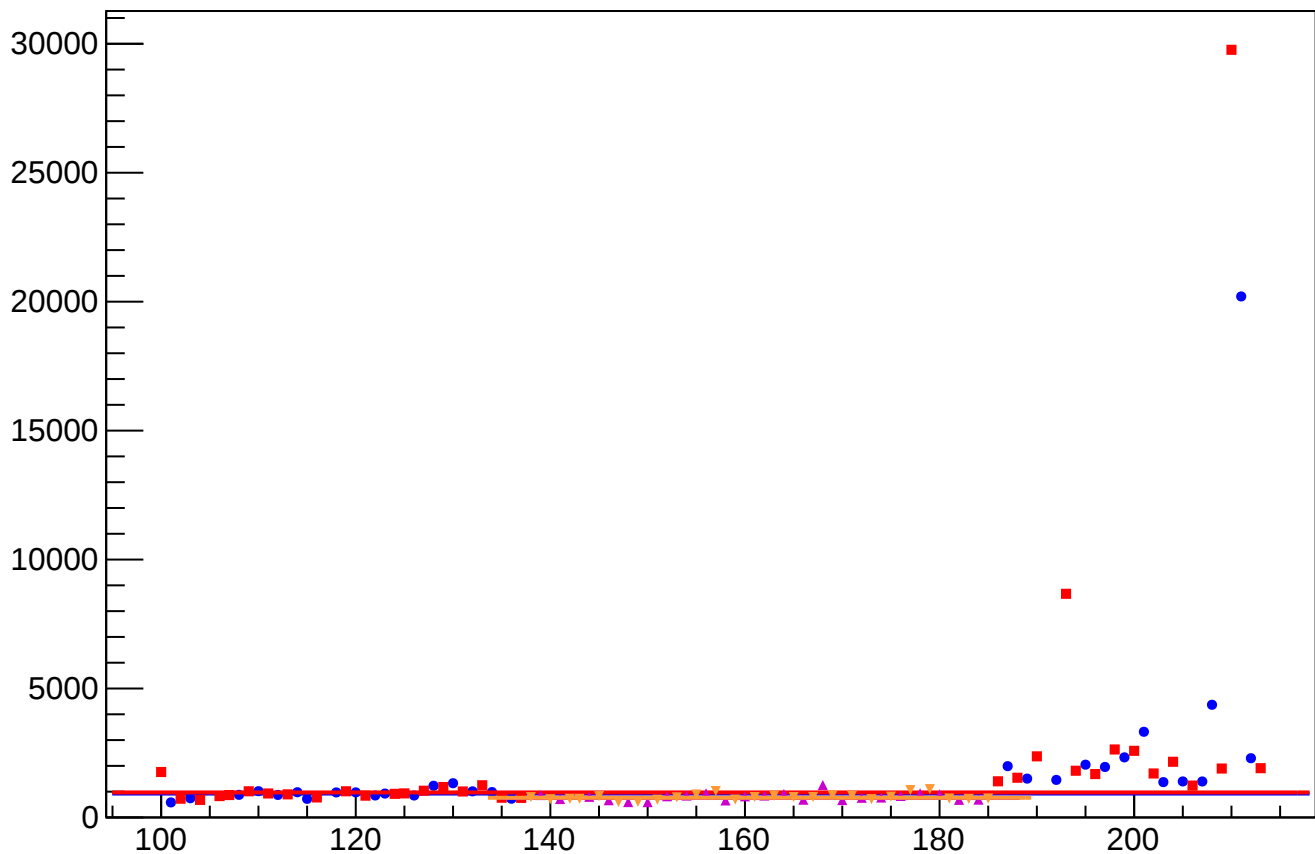
Right: -366.509 ± 218.470 $\chi^2/\text{NDF}: 57.3/62$

In: -7.636 ± 157.357 $\chi^2/\text{NDF}: 47.5/52$

Out: 25.458 ± 156.133 $\chi^2/\text{NDF}: 61.9/57$

All: 9.041 ± 110.833 $\chi^2/\text{NDF}: 109.4/110$

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 927.058 $\pm$ 0.217 χ^2 /NDF: 3015029.7/29

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

Right Out: 969.716 $\pm$ 0.220 χ^2 /NDF: 2753958.6/32

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

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

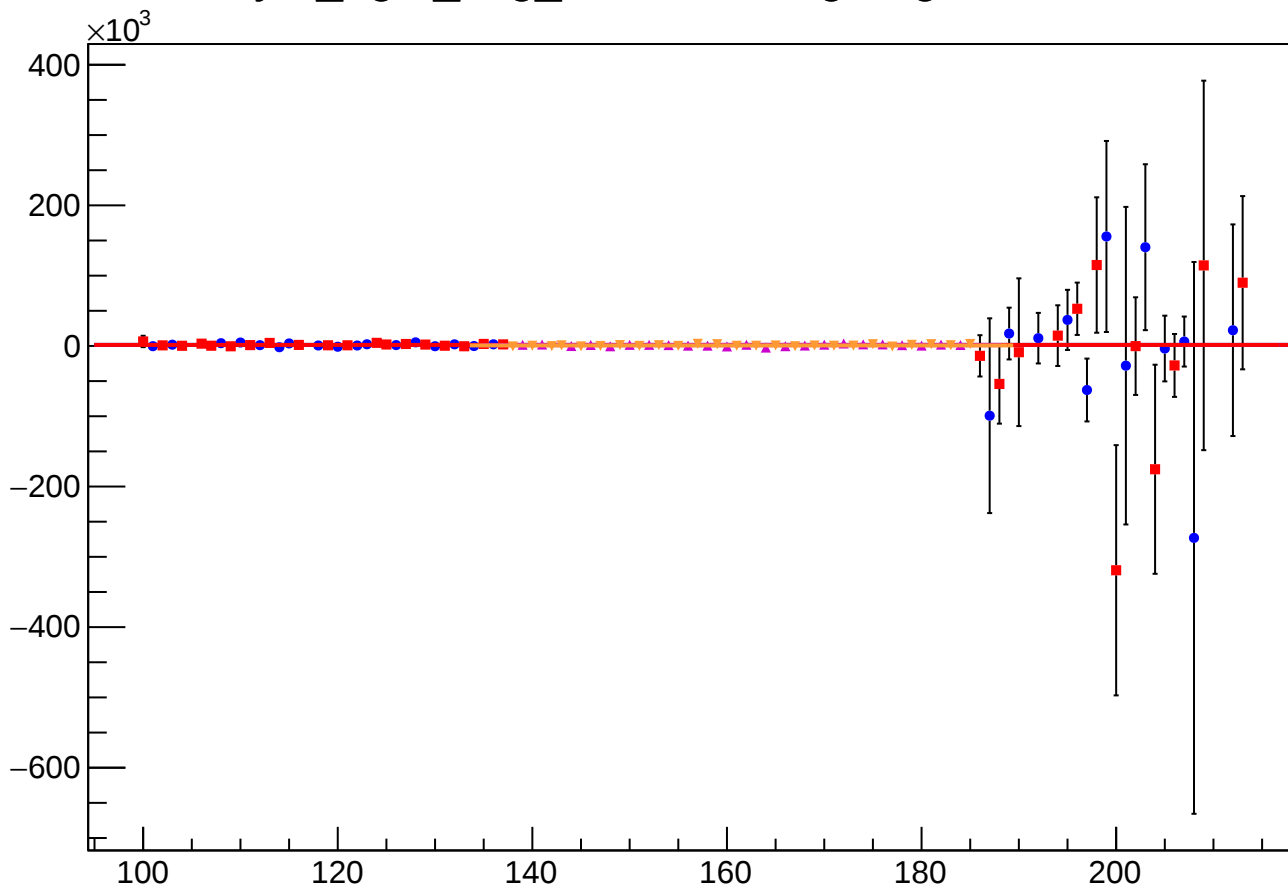
Right: 948.033 $\pm$ 0.154 χ^2 /NDF: 5788046.5/62

In: 799.707 $\pm$ 0.111 χ^2 /NDF:4416003.5/52

Out: 814.978 $\pm$ 0.110 χ^2 /NDF:4166455.4/57

All: 807.402 $\pm$ 0.078 χ^2 /NDF: 8591950.3/110

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.155+/-402.535 χ^2/NDF : 23.9/28

Left Out: 739.641+/-225.535 χ^2/NDF : 21.5/24

Right Out: 1486.854+/-400.596 χ^2/NDF : 22.5/30

Left In: 1124.587+/-230.065 χ^2/NDF : 25.4/22

Left: 928.287+/-161.055 χ^2/NDF : 48.3/47

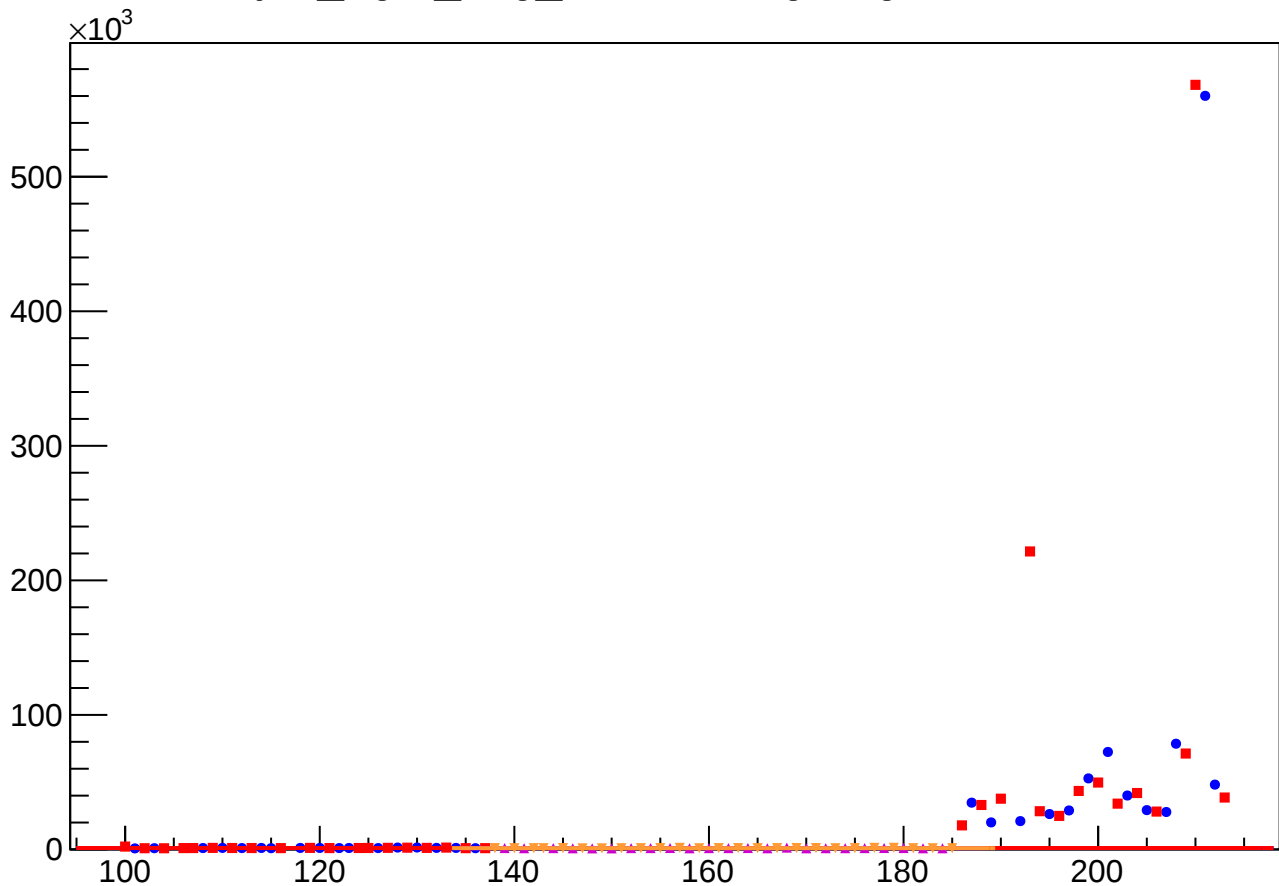
Right: 1493.970+/-283.947 χ^2/NDF : 46.3/59

In: 1217.308+/-199.743 χ^2/NDF : 49.9/51

Out: 919.480+/-196.529 χ^2/NDF : 46.6/55

All: 1065.979+/-140.089 χ^2/NDF : 97.7/107

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1038.995 $\pm$ 0.285 χ^2 /NDF: 6194919.5/29

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

Right Out: 1073.748 $\pm$ 0.283 χ^2 /NDF: 5918578.3/32

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

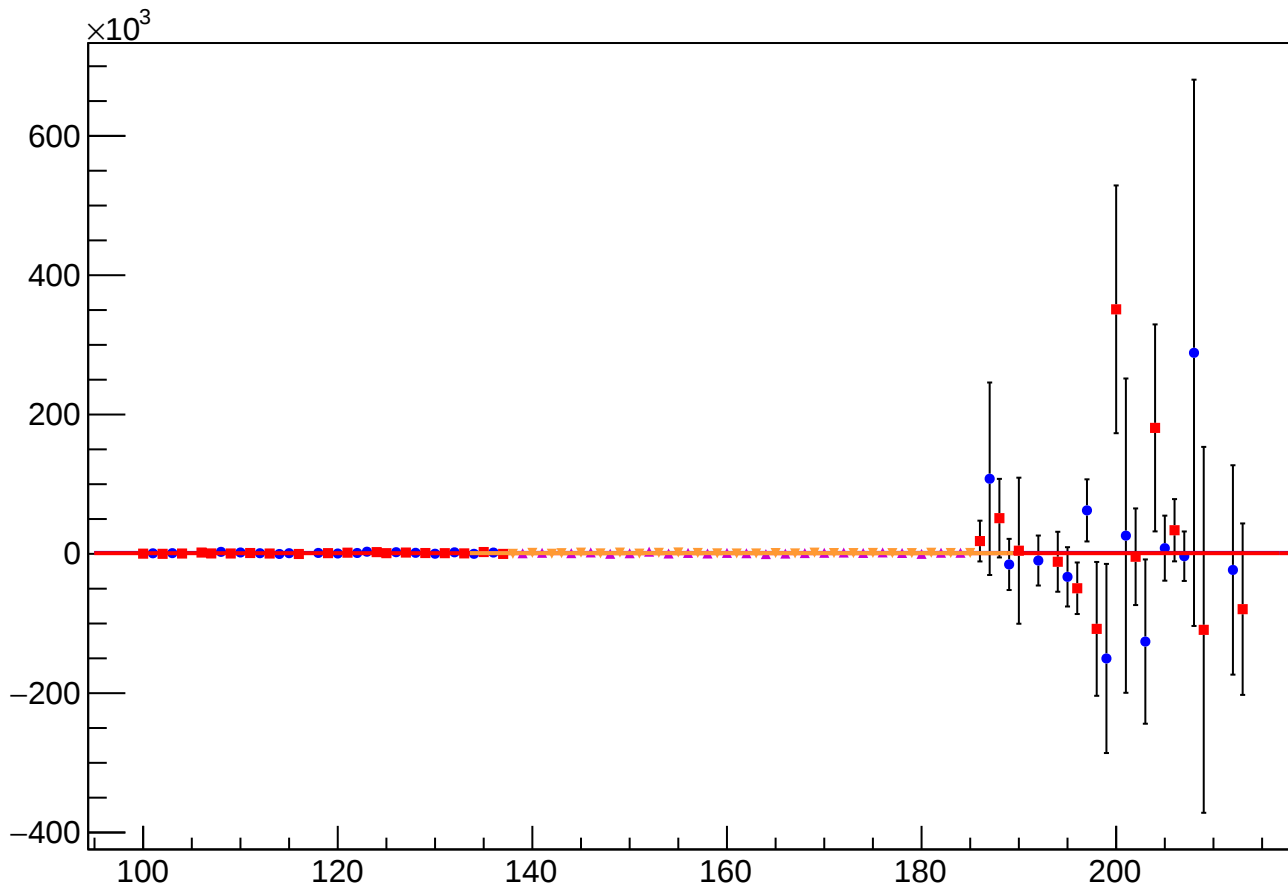
Right: 1056.456 $\pm$ 0.201 χ^2 /NDF: 12120987.7/62

In: 975.413 $\pm$ 0.141 χ^2 /NDF:6704514.1/52

Out: 989.090 $\pm$ 0.139 χ^2 /NDF:6399151.2/57

All: 982.362 $\pm$ 0.099 χ^2 /NDF: 13108429.7/11

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.436+/-218.833 χ^2/NDF : 18.4/28

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

Right Out: 965.830+/-208.597 χ^2/NDF : 23.1/30

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

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

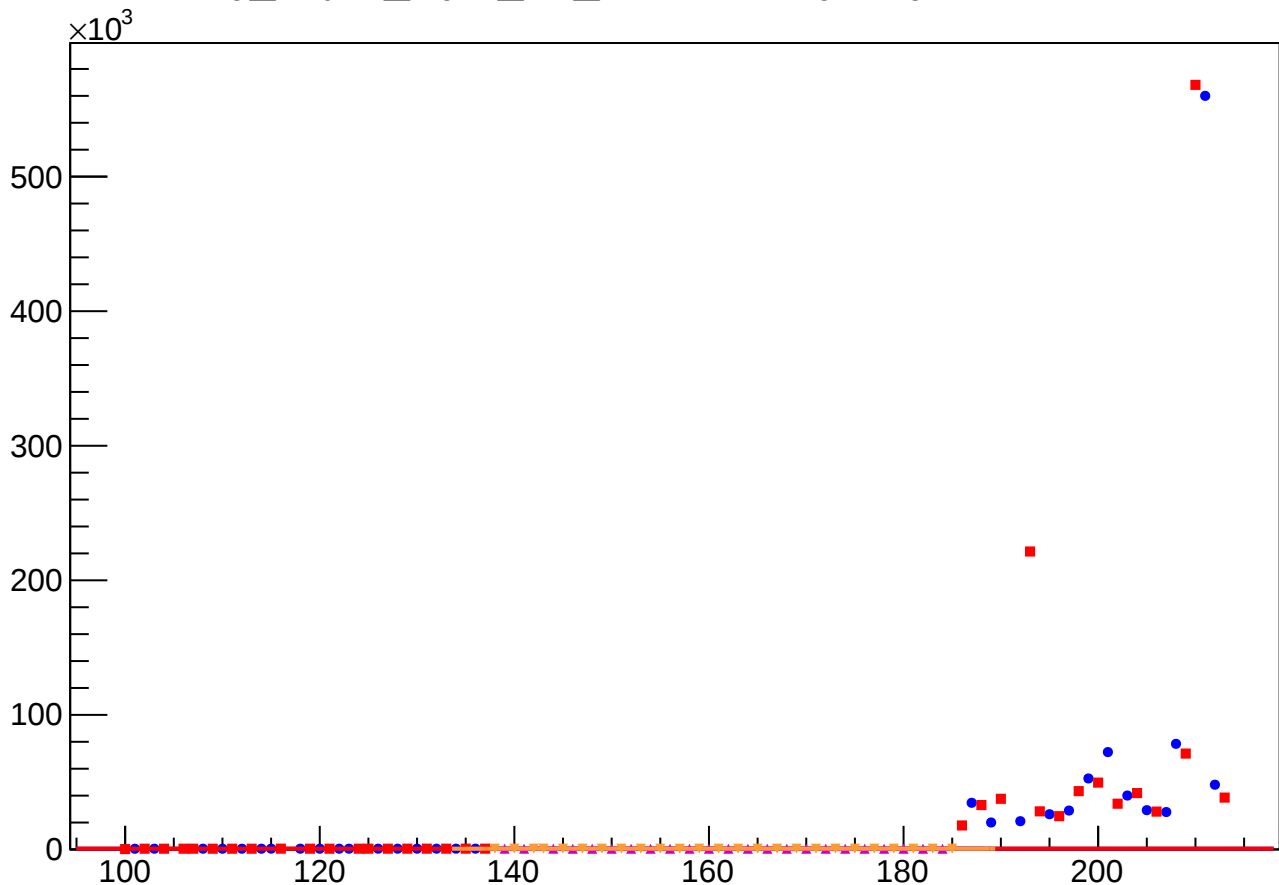
Right: 1146.071+/-150.989 χ^2/NDF : 43.1/59

In: 1231.423+/-113.851 χ^2/NDF : 51.0/51

Out: 1053.622+/-110.219 χ^2/NDF : 38.3/55

All: 1139.642+/-79.189 χ^2/NDF : 90.5/107

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.294 $\pm$ 0.155 χ^2 /NDF: 6063552.4/29

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

Right Out: 558.854 $\pm$ 0.147 χ^2 /NDF: 6015251.6/32

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

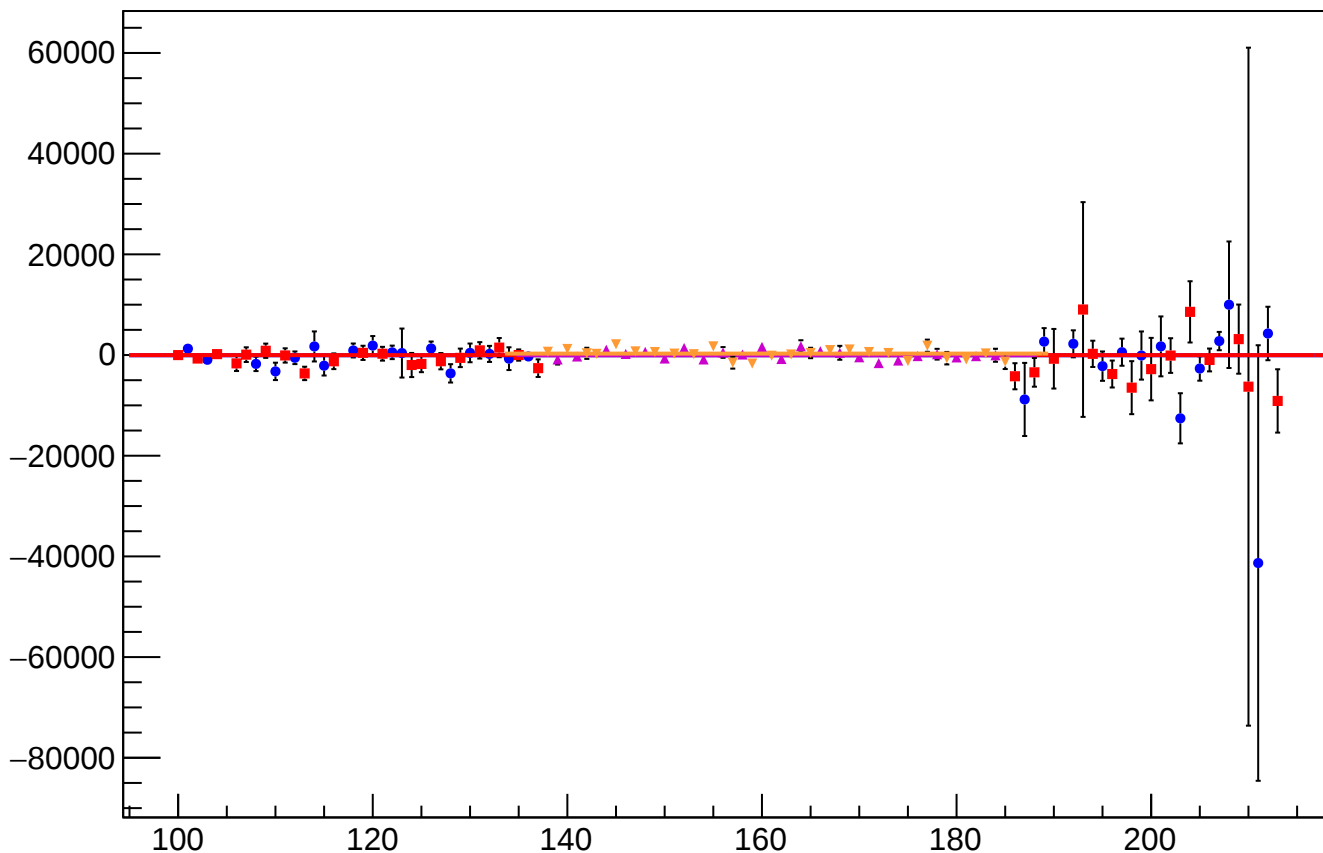
Right: 563.824 $\pm$ 0.107 χ^2 /NDF: 12081189.1/62

In: 560.763 $\pm$ 0.081 χ^2 /NDF:6078997.2/52

Out: 558.310 $\pm$ 0.078 χ^2 /NDF:6030055.7/57

All: 559.497 $\pm$ 0.056 χ^2 /NDF: 12109532.2/111

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -48.752 ± 309.269 χ^2/NDF : 33.1/29

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

Right Out: -23.054 ± 38.925 χ^2/NDF : 28.3/32

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

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

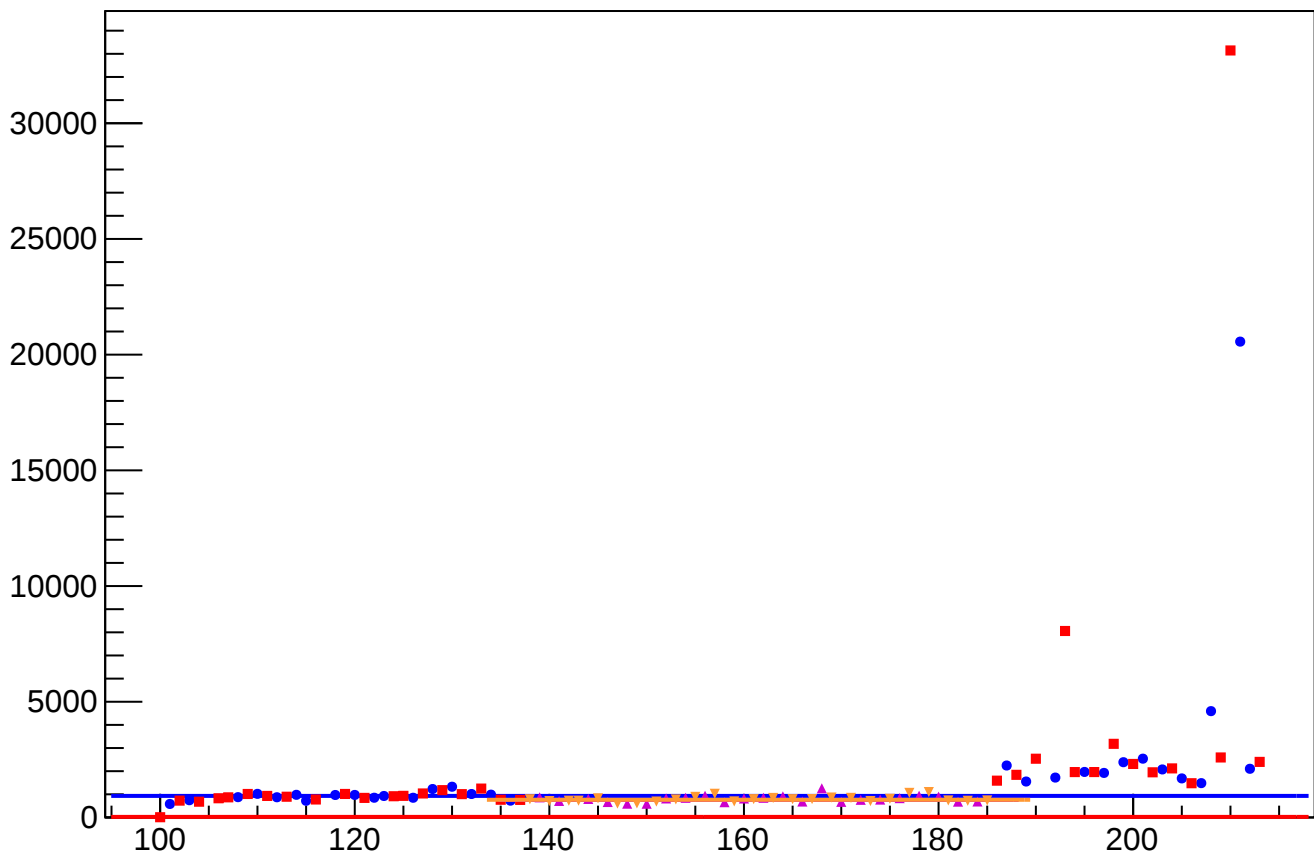
Right: -23.455 ± 38.621 χ^2/NDF : 61.4/62

In: -18.095 ± 157.795 χ^2/NDF : 53.2/52

Out: -9.521 ± 38.050 χ^2/NDF : 57.8/57

All: -9.992 ± 36.990 χ^2/NDF : 111.0/110

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 931.522+/-0.219

χ^2/NDF : 3204141.5/29

Left Out: 763.307+/-0.128

χ^2/NDF : 753728.9/24

Right Out: 24.653+/-0.028

χ^2/NDF : 21598743.9/32

Left In: 754.483+/-0.130

χ^2/NDF : 931536.8/22

Left: 758.967+/-0.091

χ^2/NDF : 1687616.8/47

Right: 38.795+/-0.027

χ^2/NDF : 41731548.0/62

In: 800.570+/-0.112

χ^2/NDF : 4620452.2/52

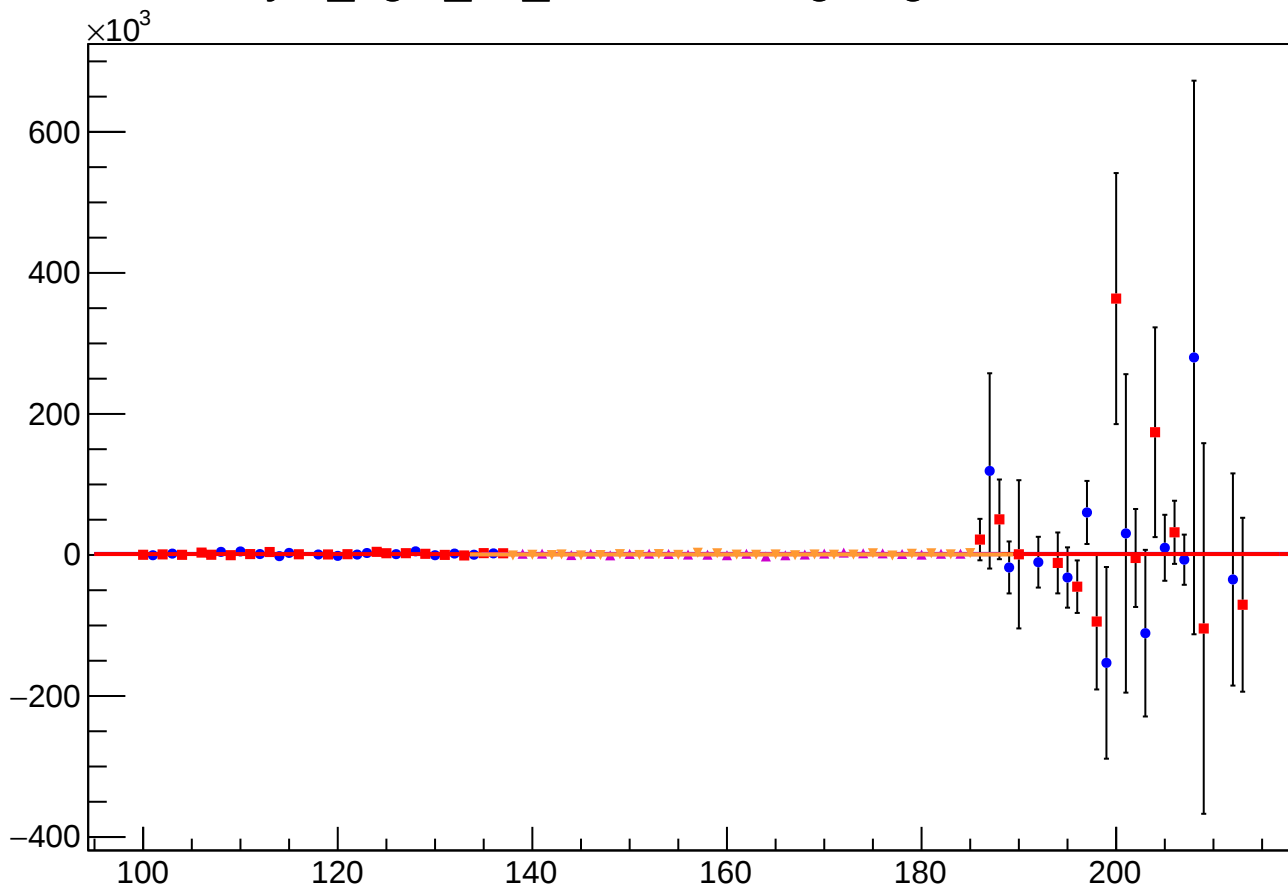
Out: 57.486+/-0.027

χ^2/NDF : 54364701.1/57

All: 98.321+/-0.026

χ^2/NDF : 100900559.0/11

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1515.566+/-402.758 χ^2/NDF : 24.1/28

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

Right Out: 1289.809+/-376.578 χ^2/NDF : 22.7/30

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

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

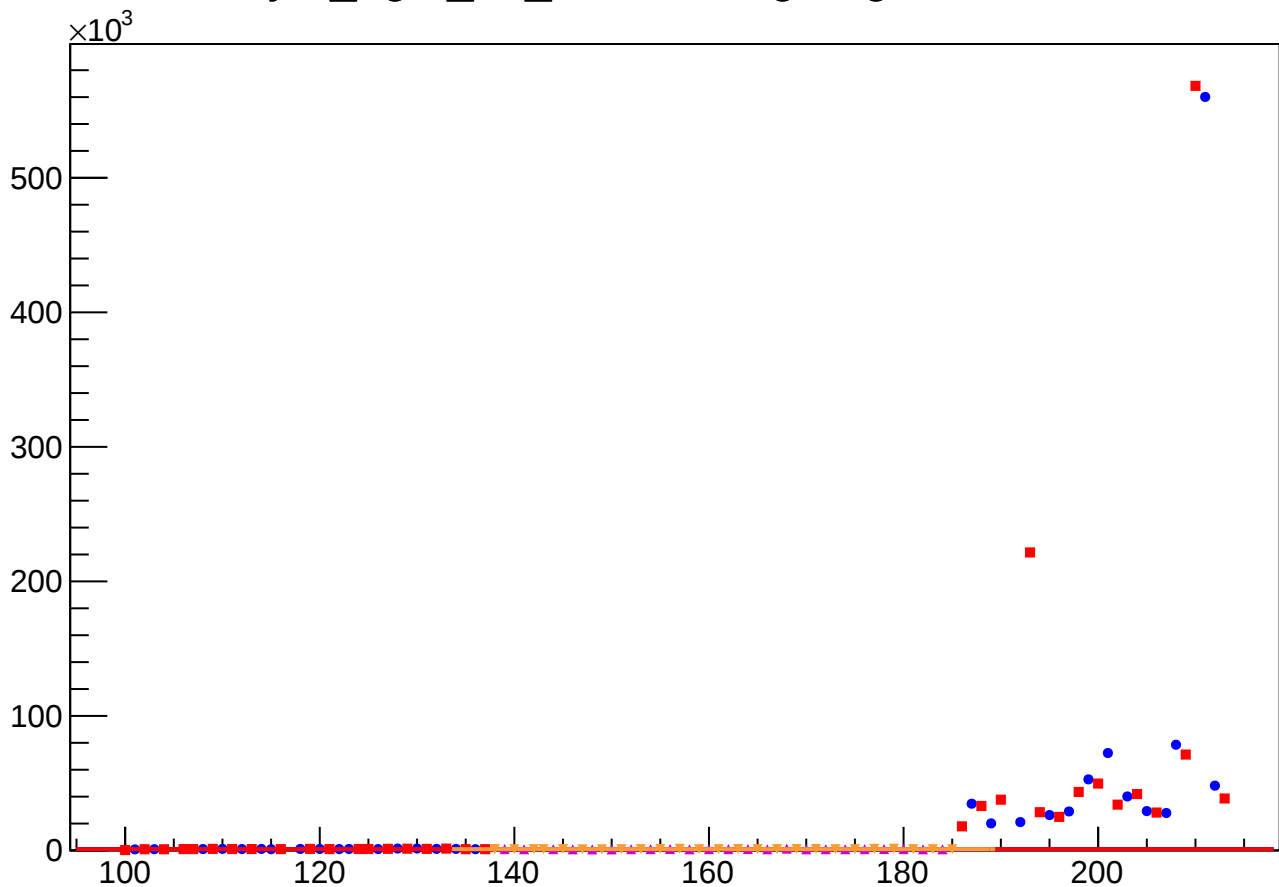
Right: 1395.113+/-275.071 χ^2/NDF : 47.0/59

In: 1259.847+/-199.877 χ^2/NDF : 48.9/51

Out: 887.342+/-193.565 χ^2/NDF : 44.5/55

All: 1067.621+/-139.049 χ^2/NDF : 95.2/107

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1039.578+/-0.285 χ^2/NDF : 6195587.9/29

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

Right Out: 978.198+/-0.266 χ^2/NDF : 6792392.1/32

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

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

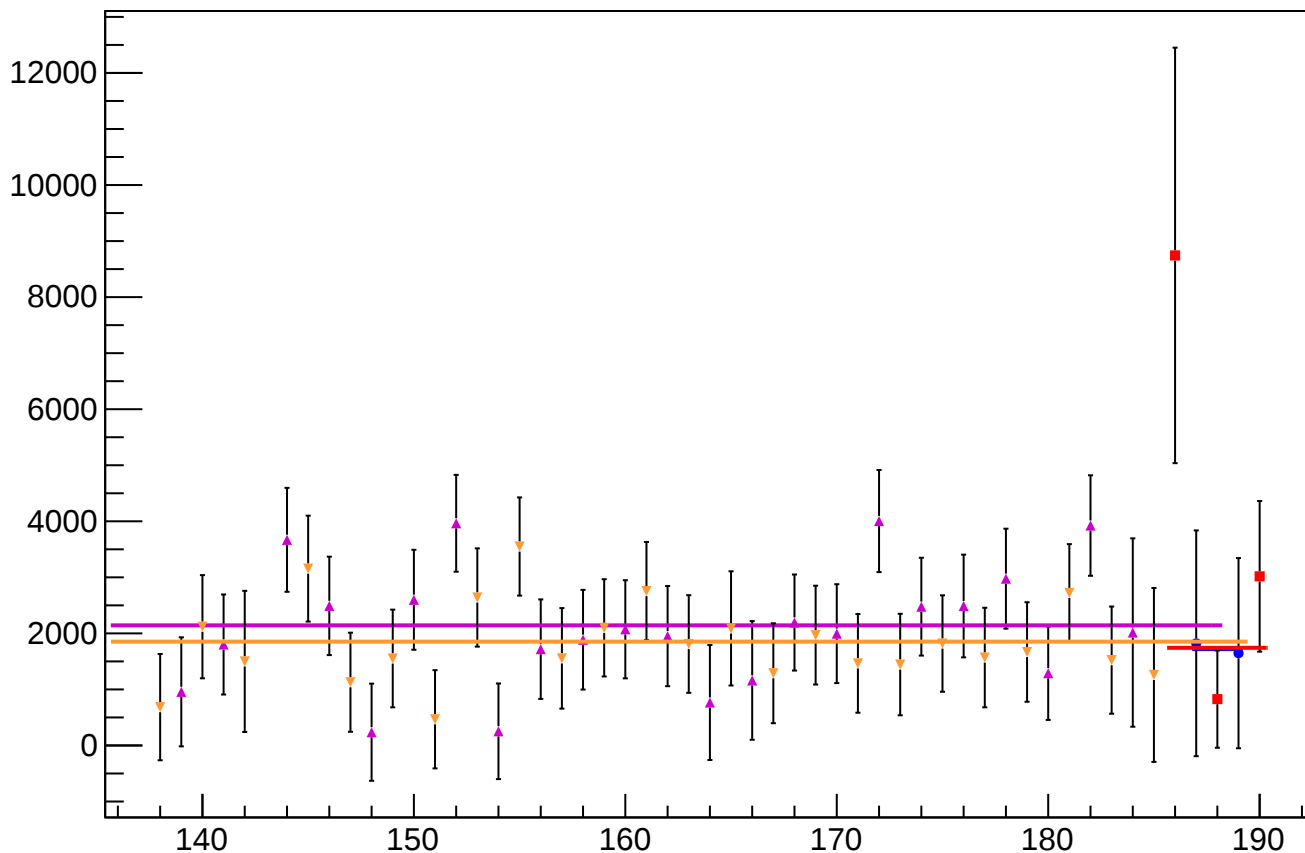
Right: 1006.828+/-0.195 χ^2/NDF : 13012764.8/62

In: 976.080+/-0.141 χ^2/NDF : 6704614.6/52

Out: 966.851+/-0.137 χ^2/NDF : 7157697.8/57

All: 971.317+/-0.098 χ^2/NDF : 13864512.6/111

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

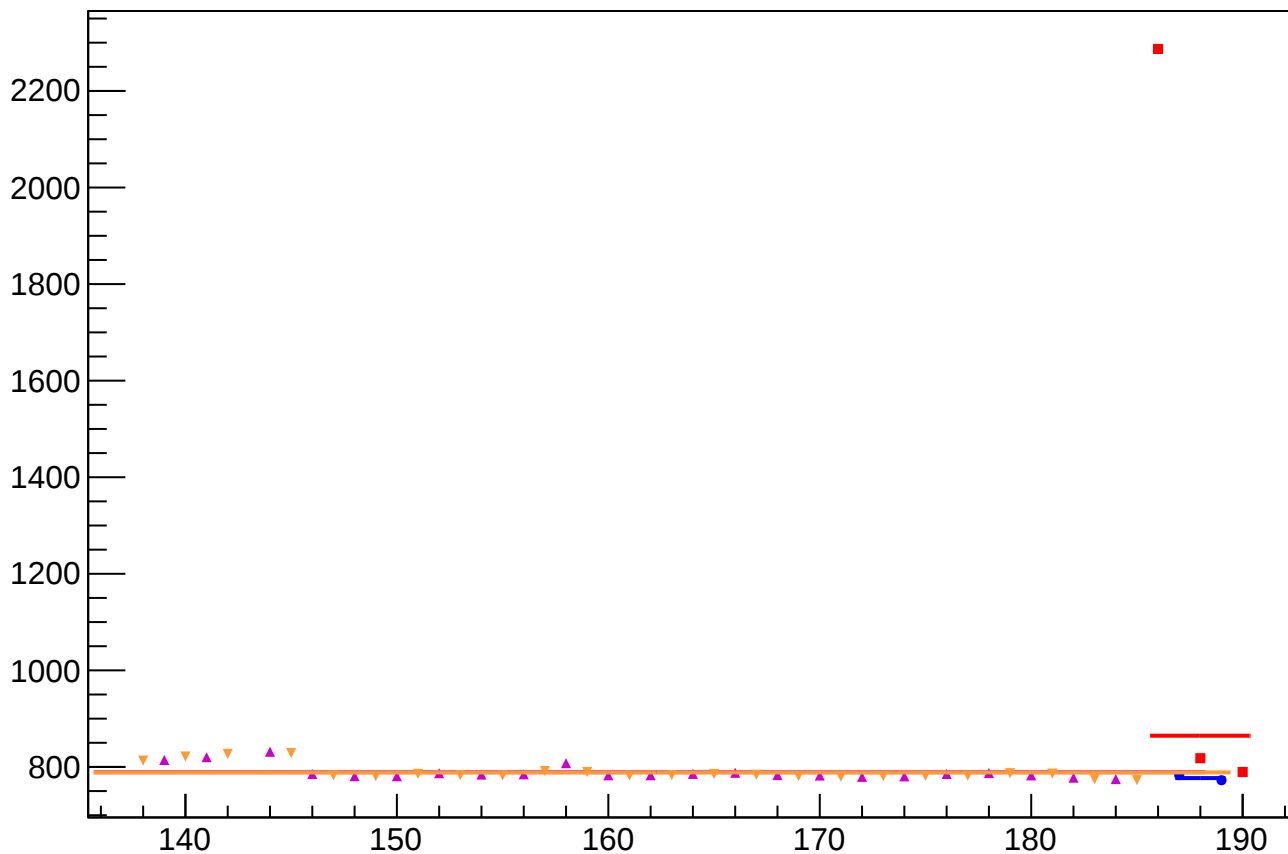
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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 ± 0.918 χ^2/NDF : 32.5/1

Left Out: 788.658 ± 0.133 χ^2/NDF : 11499.7/23

Right Out: 864.658 ± 0.506 χ^2/NDF : 306489.7/2

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

Left: 788.914 ± 0.094 χ^2/NDF : 22367.7/46

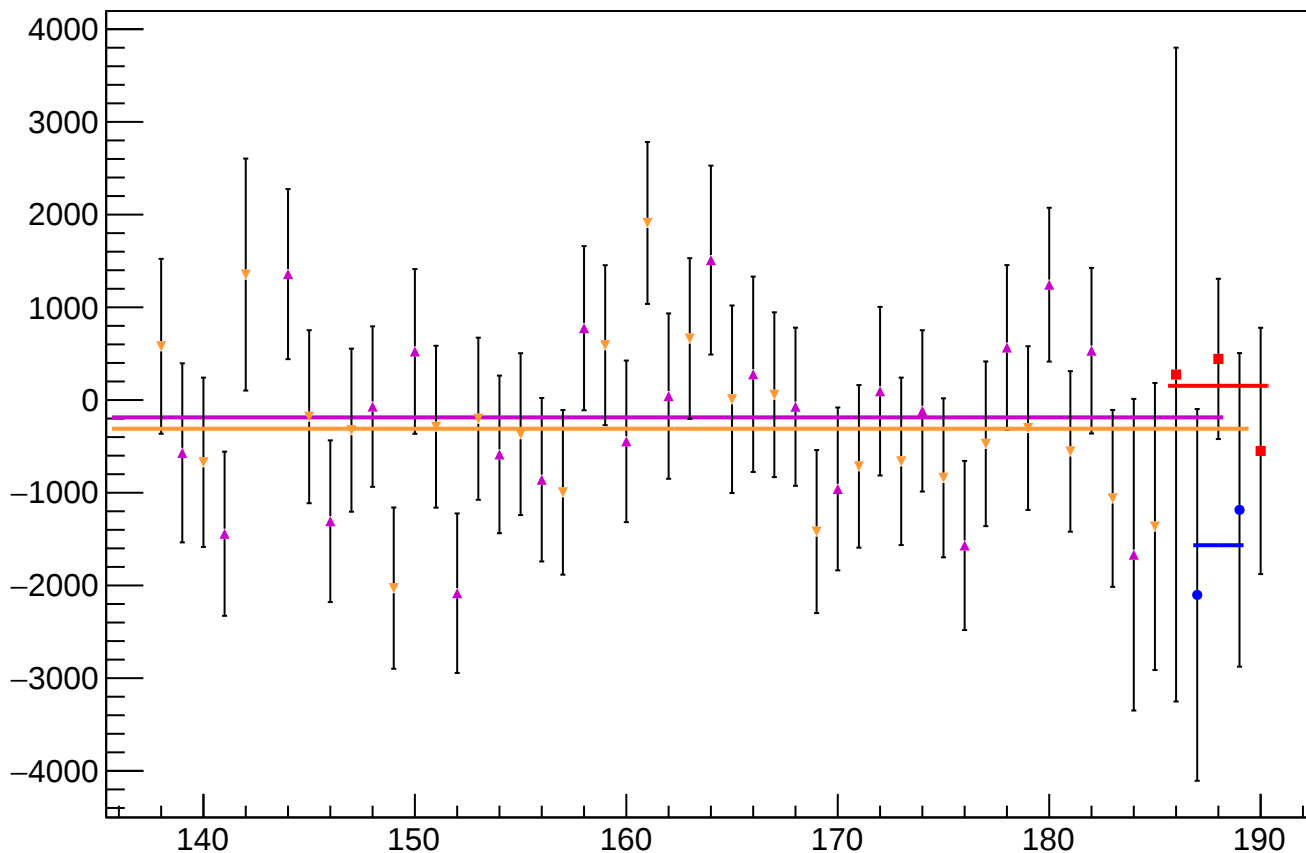
Right: 844.207 ± 0.443 χ^2/NDF : 313539.0/4

In: 788.918 ± 0.133 χ^2/NDF : 11068.4/24

Out: 793.541 ± 0.128 χ^2/NDF : 339118.2/26

All: 791.315 ± 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

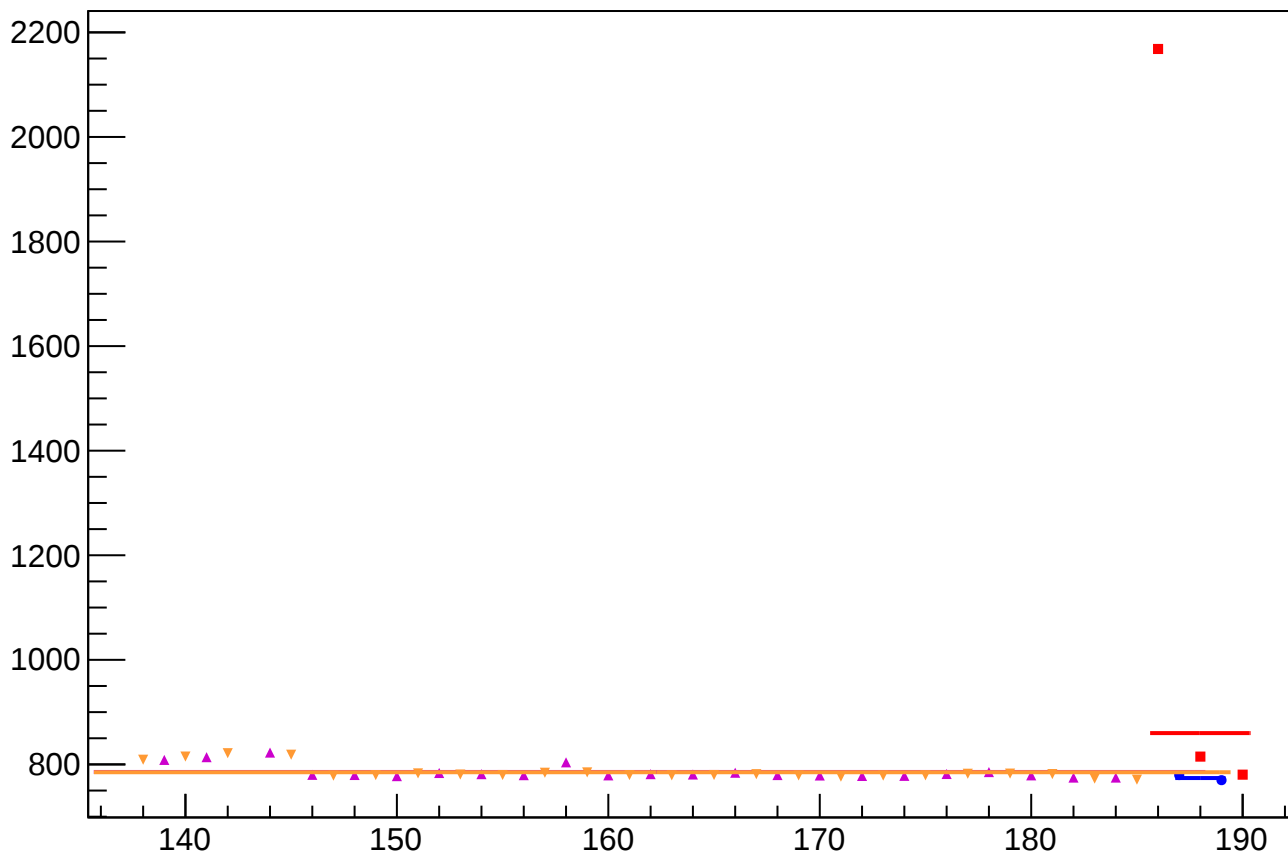
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

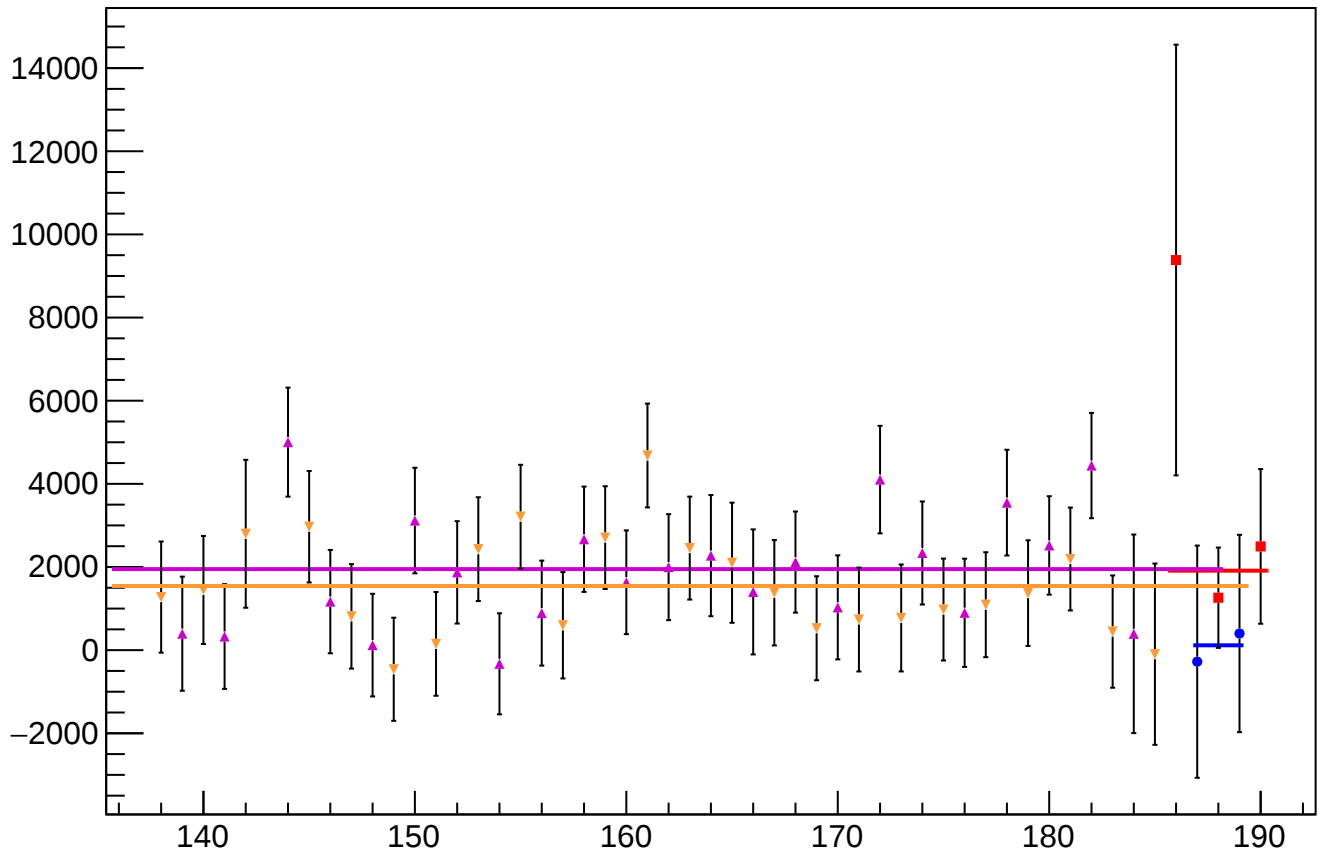
Right: 839.990+/-0.440 χ^2/NDF : 294774.5/4

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

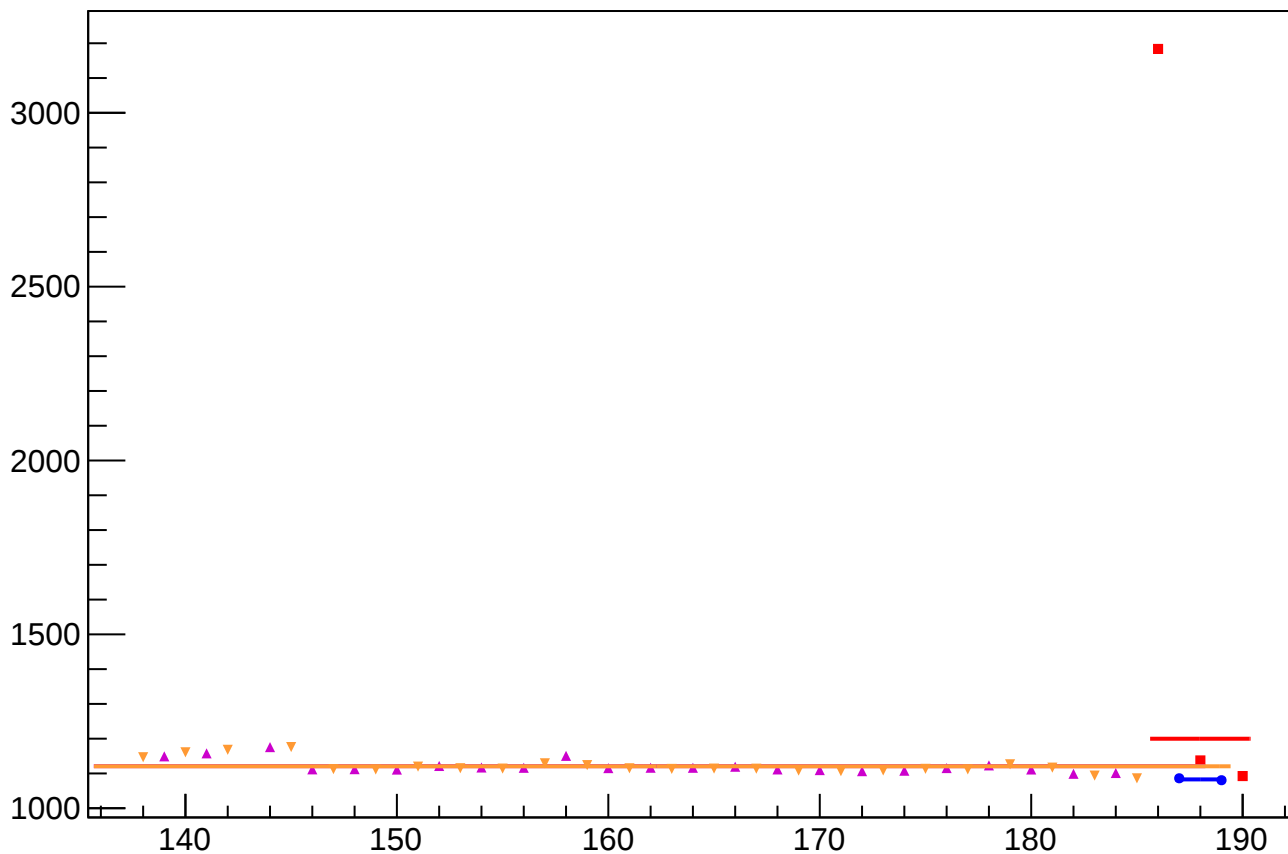
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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

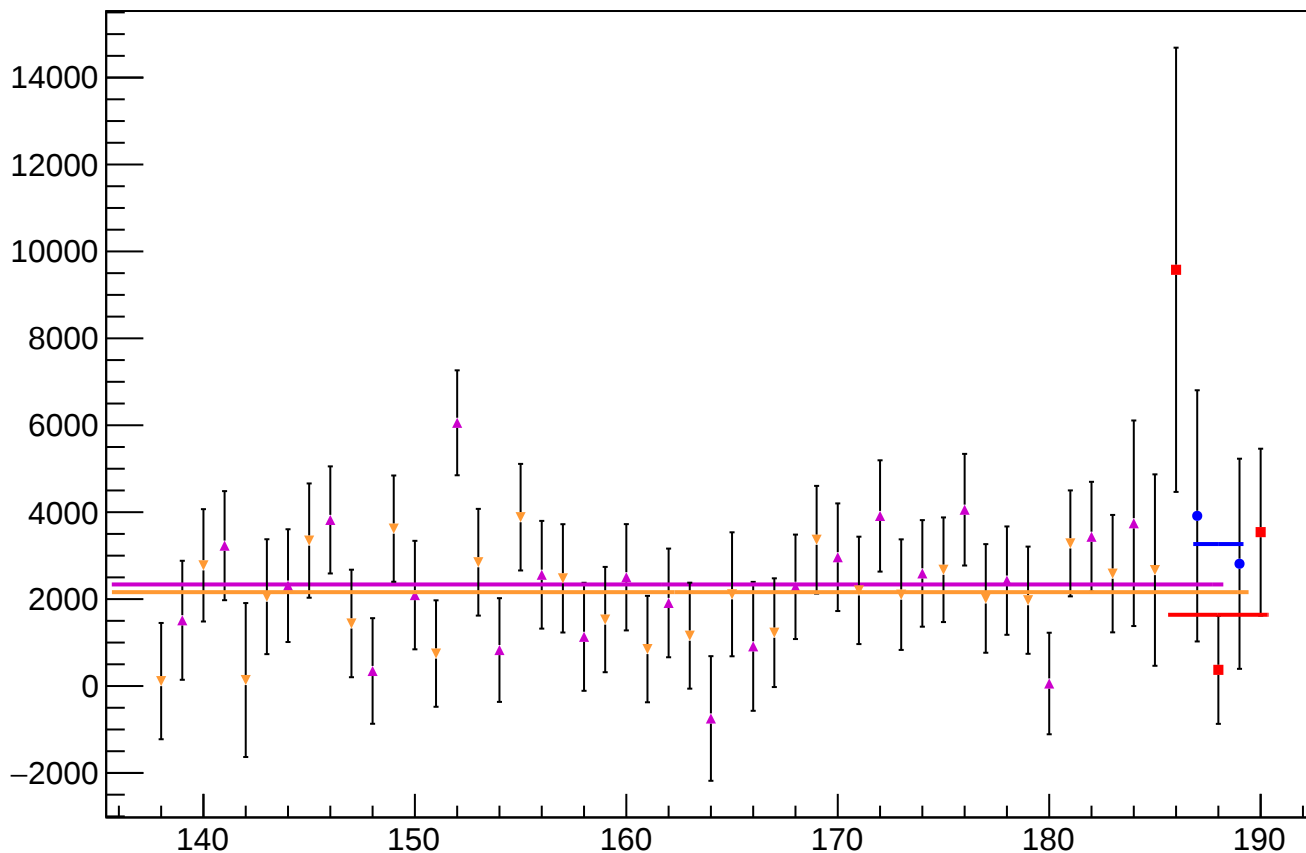
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

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

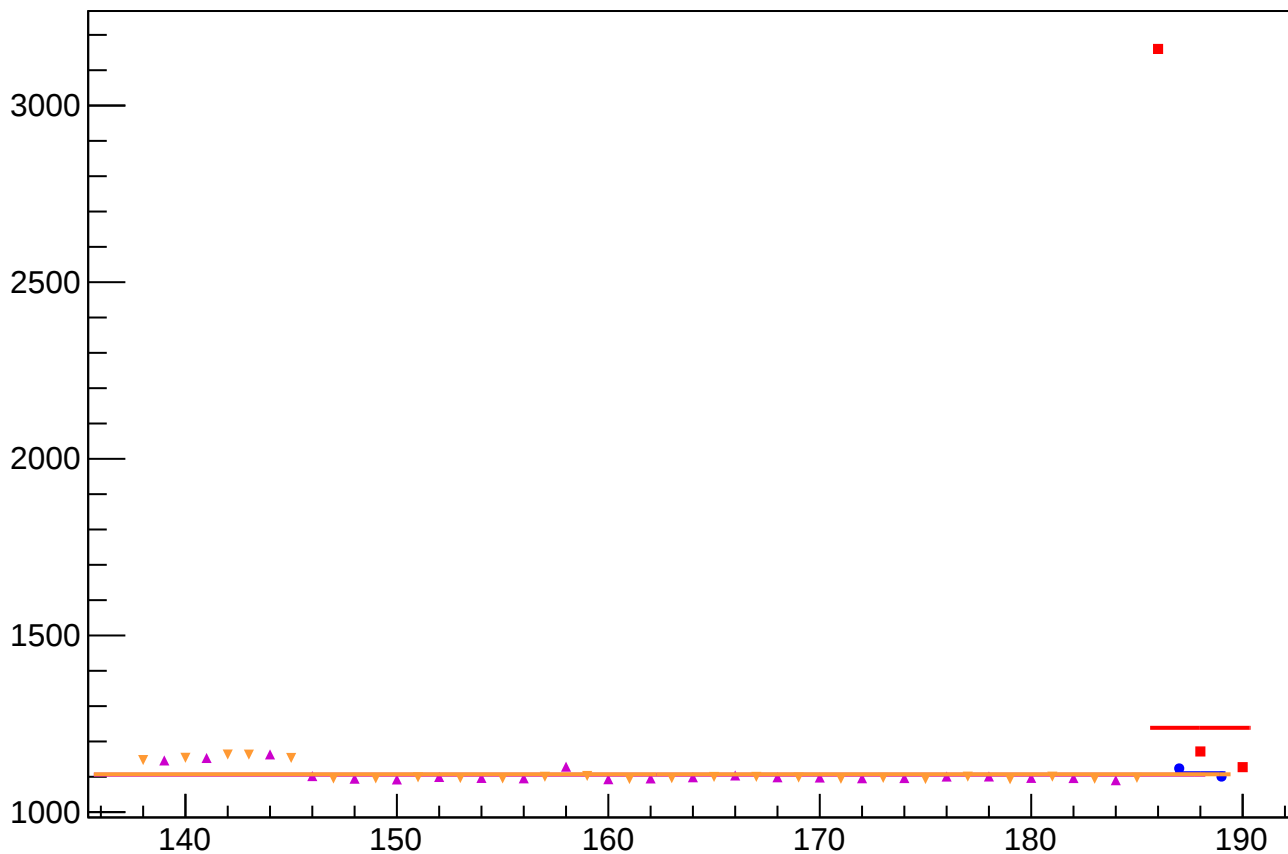
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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+/-1.311 χ^2/NDF : 75.3/1

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

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

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

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

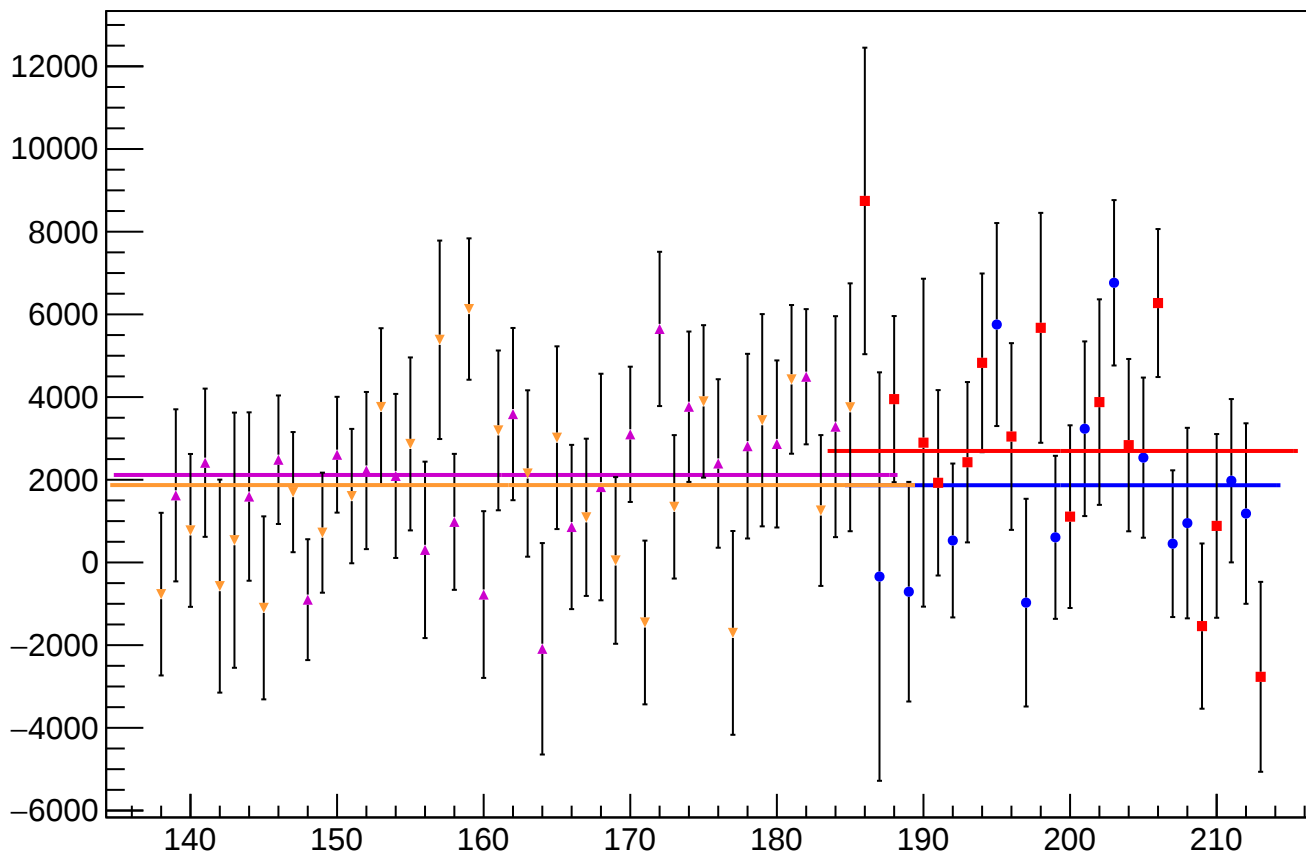
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 1867.816+/-601.313 χ^2/NDF : 13.3/12

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

Right Out: 2696.538+/-583.220 χ^2/NDF : 20.9/14

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

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

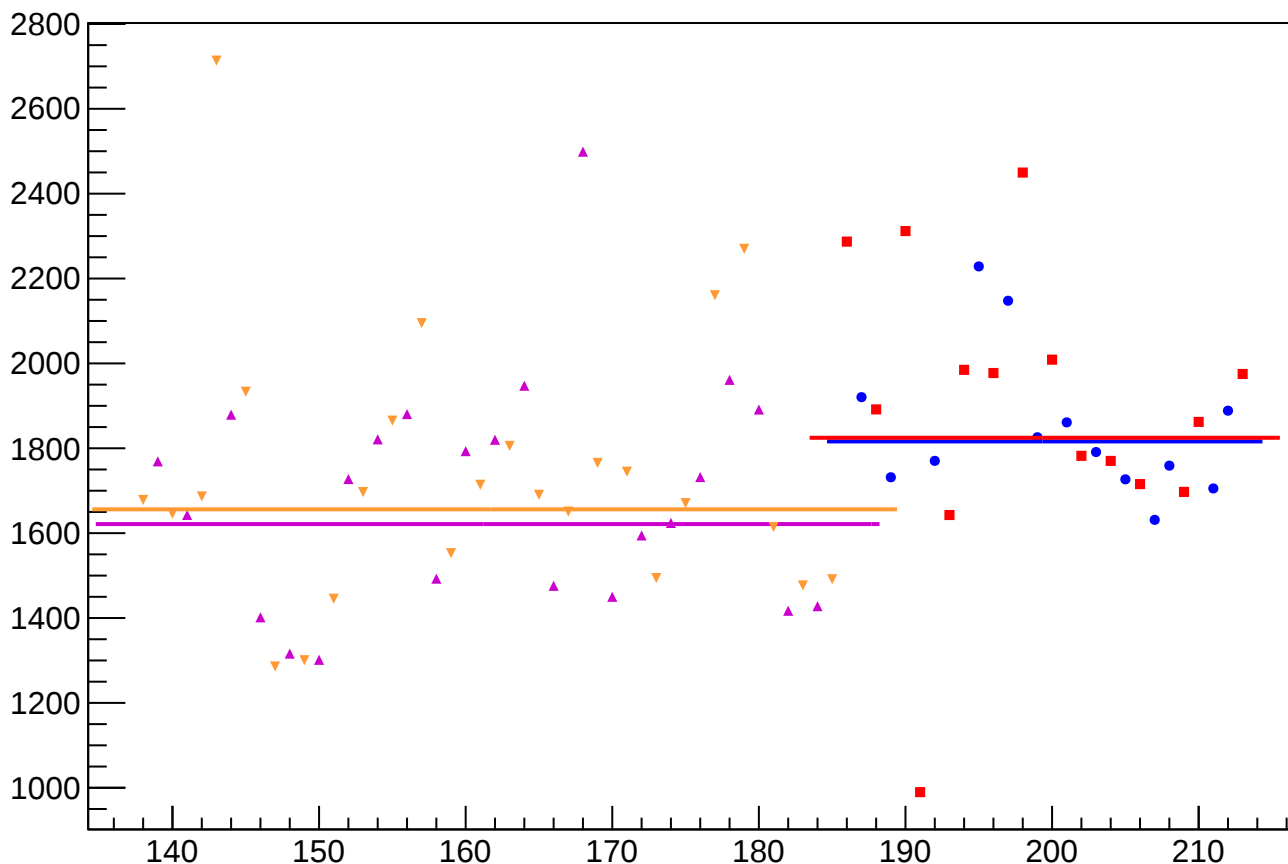
Right: 2294.832+/-418.649 χ^2/NDF : 35.1/27

In: 2041.798+/-328.969 χ^2/NDF : 32.2/35

Out: 2128.045+/-325.160 χ^2/NDF : 48.4/39

All: 2085.424+/-231.258 χ^2/NDF : 80.6/75

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1816.134 $\pm$ 0.425 χ^2/NDF : 132326.9/12

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

Right Out: 1824.776 $\pm$ 0.412 χ^2/NDF : 520140.2/14

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

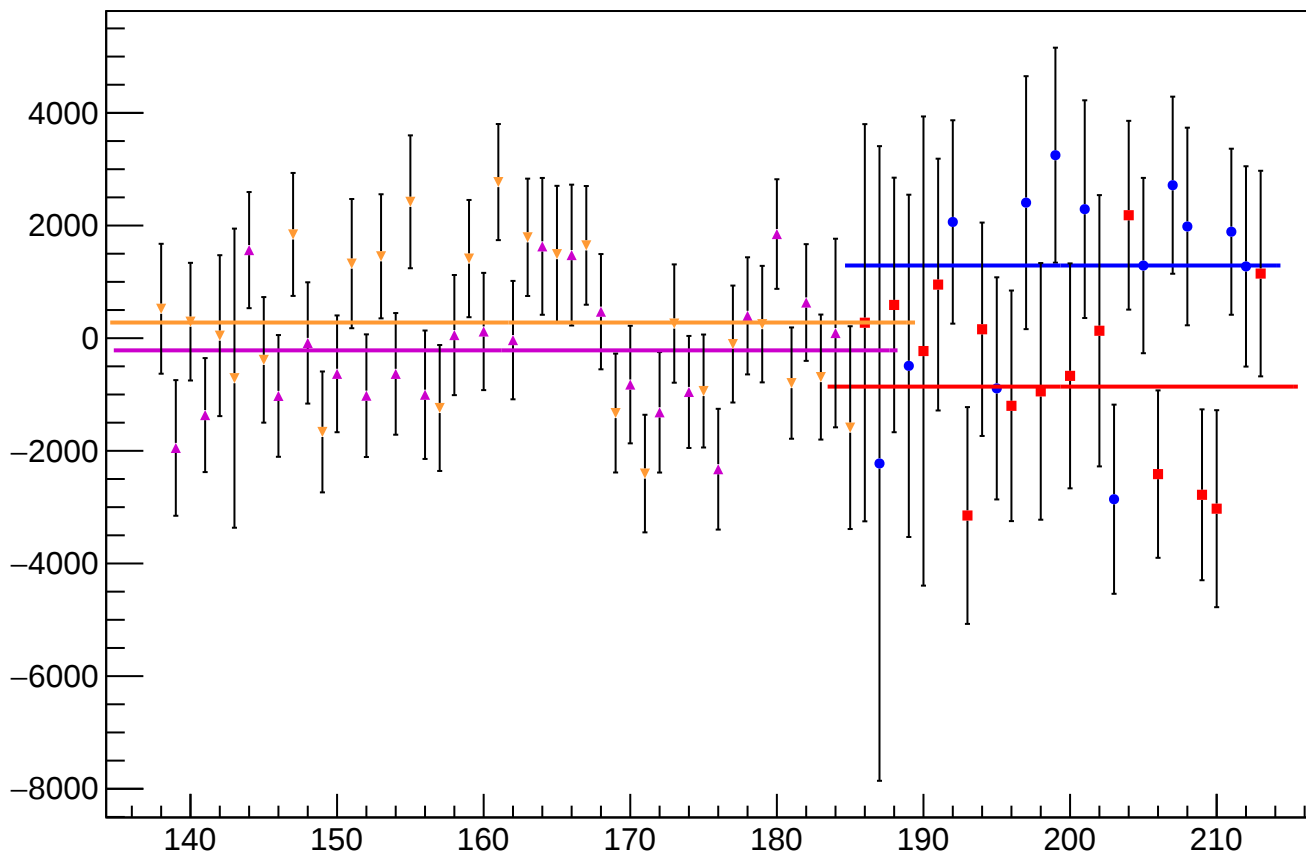
Right: 1820.587 $\pm$ 0.296 χ^2/NDF : 652680.0/27

In: 1679.696 $\pm$ 0.233 χ^2/NDF : 1054587.3/35

Out: 1708.544 $\pm$ 0.230 χ^2/NDF : 1545978.7/39

All: 1694.288 $\pm$ 0.164 χ^2/NDF : 2608345.3/75

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1290.481 $\pm$ 518.644 χ^2 /NDF: 11.0/12

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

Right Out: -859.724 $\pm$ 512.456 χ^2 /NDF: 11.8/14

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

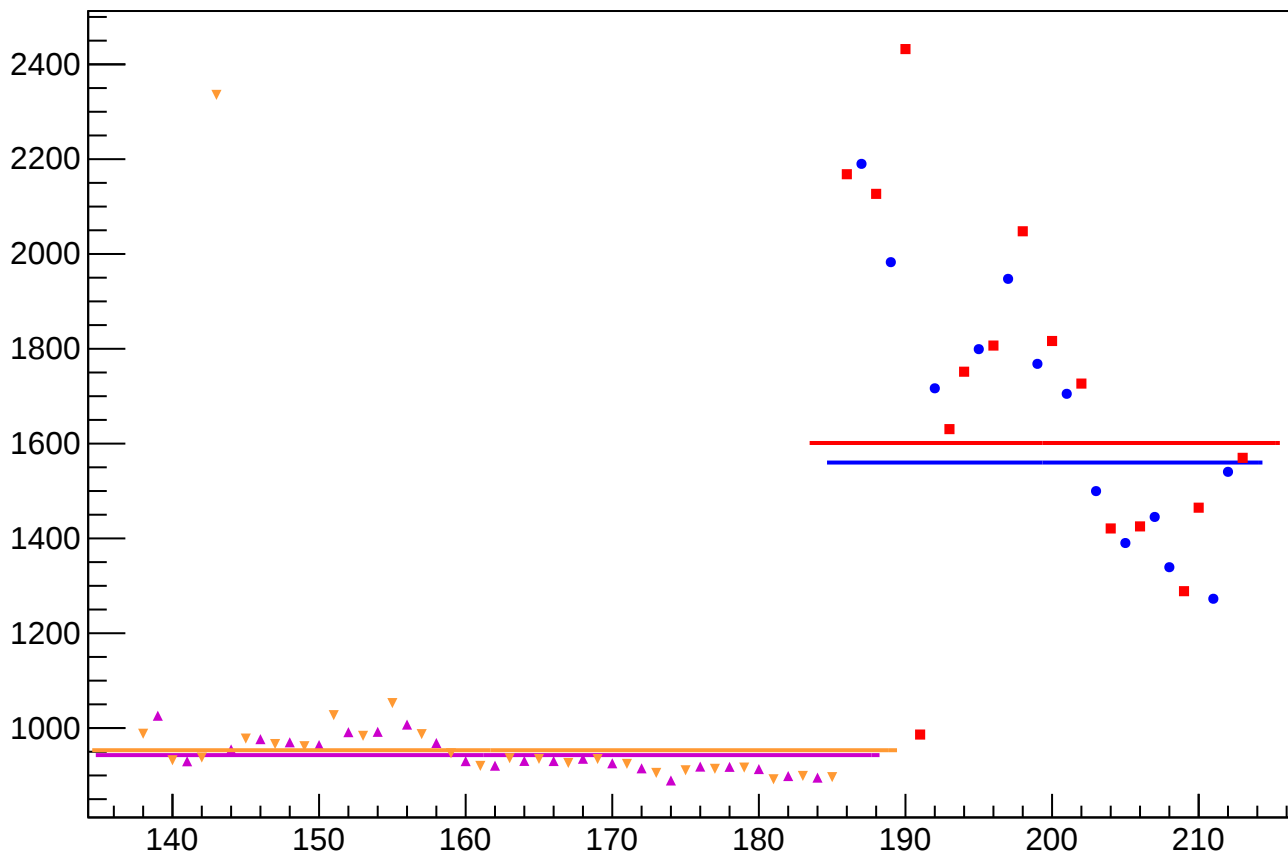
Right: 202.475 $\pm$ 364.529 χ^2 /NDF: 31.5/27

In: 23.586 $\pm$ 206.876 χ^2 /NDF:42.5/35

Out: 96.140 $\pm$ 204.926 χ^2 /NDF:54.4/39

All: 60.207 $\pm$ 145.589 χ^2 /NDF: 96.9/75

asym_us_agg_dd_rms vs Slug, Sign Corrected



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

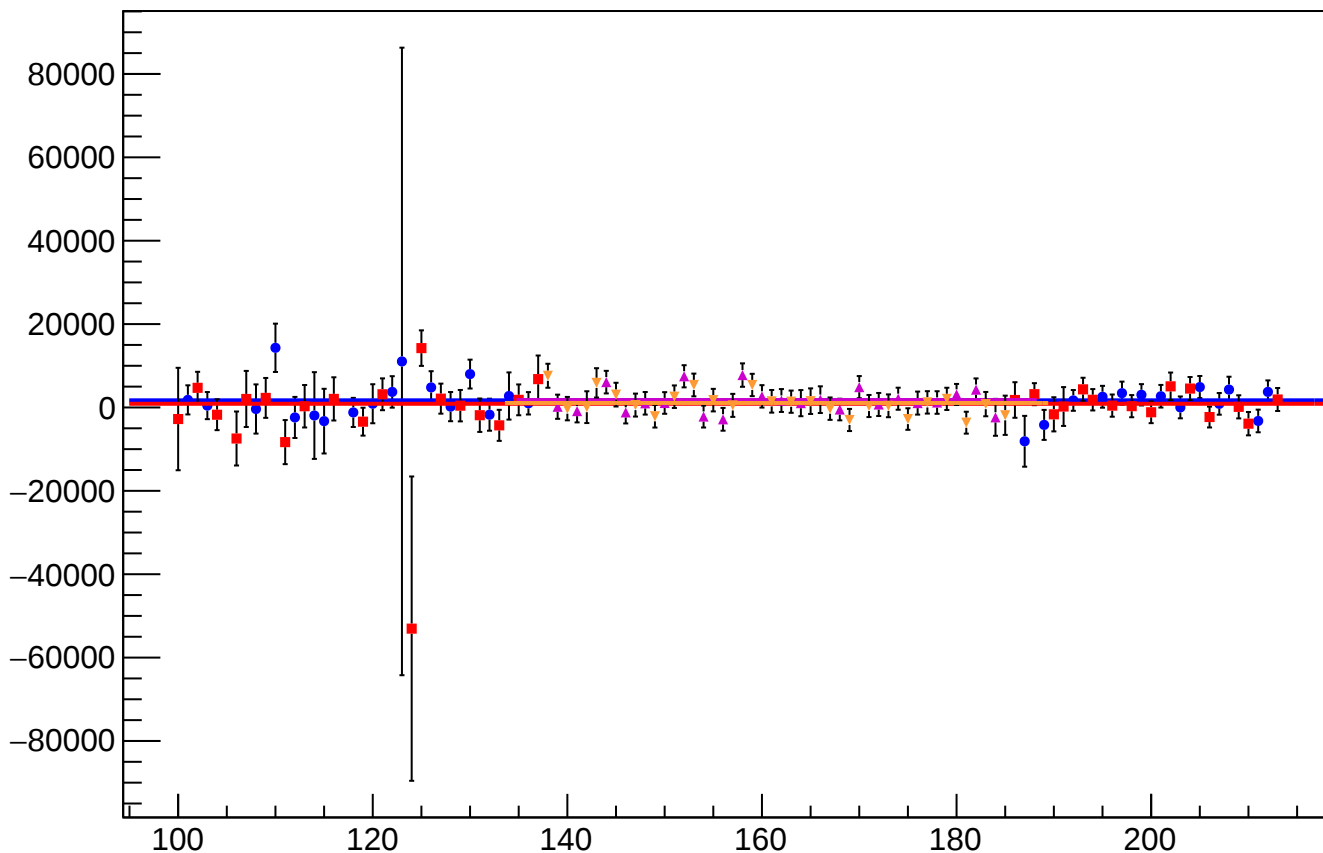
Right: 1580.929 +/- 0.258 χ^2/NDF : 1032567.2/27

In: 1041.114 +/- 0.146 χ^2/NDF : 2777226.7/35

Out: 1056.858 +/- 0.145 χ^2/NDF : 3971994.2/39

All: 1049.061 +/- 0.103 χ^2/NDF : 6755067.0/75

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1713.341+/-619.263 χ^2/NDF : 25.0/29

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

Right Out: 884.145+/-604.885 χ^2/NDF : 35.8/33

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

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

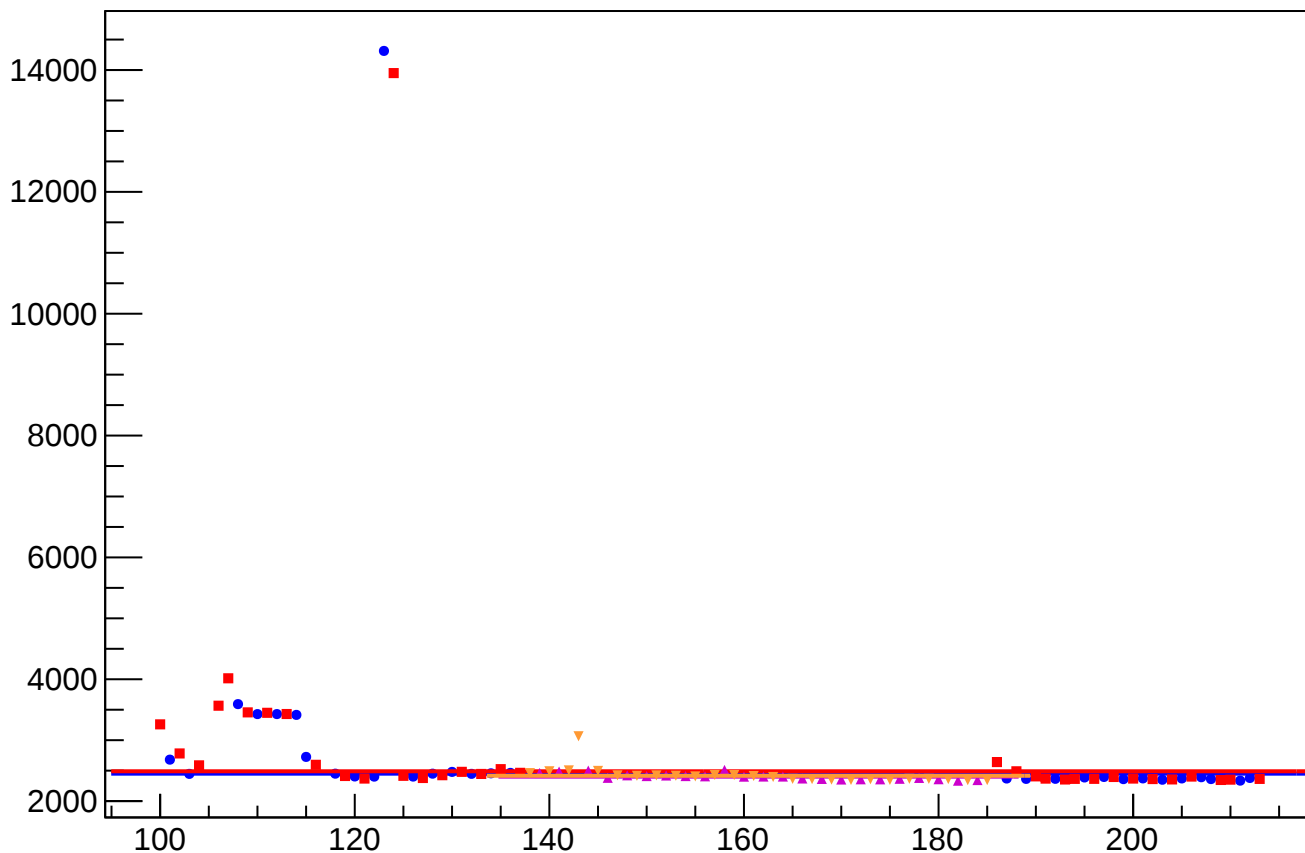
Right: 1289.005+/-432.712 χ^2/NDF : 61.7/63

In: 1747.531+/-421.718 χ^2/NDF : 49.1/52

Out: 987.873+/-412.507 χ^2/NDF : 59.4/58

All: 1359.316+/-294.889 χ^2/NDF : 110.1/111

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2450.598 $\pm$ 0.438 χ^2 /NDF: 311638.6/29

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

Right Out: 2489.638 $\pm$ 0.428 χ^2 /NDF: 648664.6/33

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

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

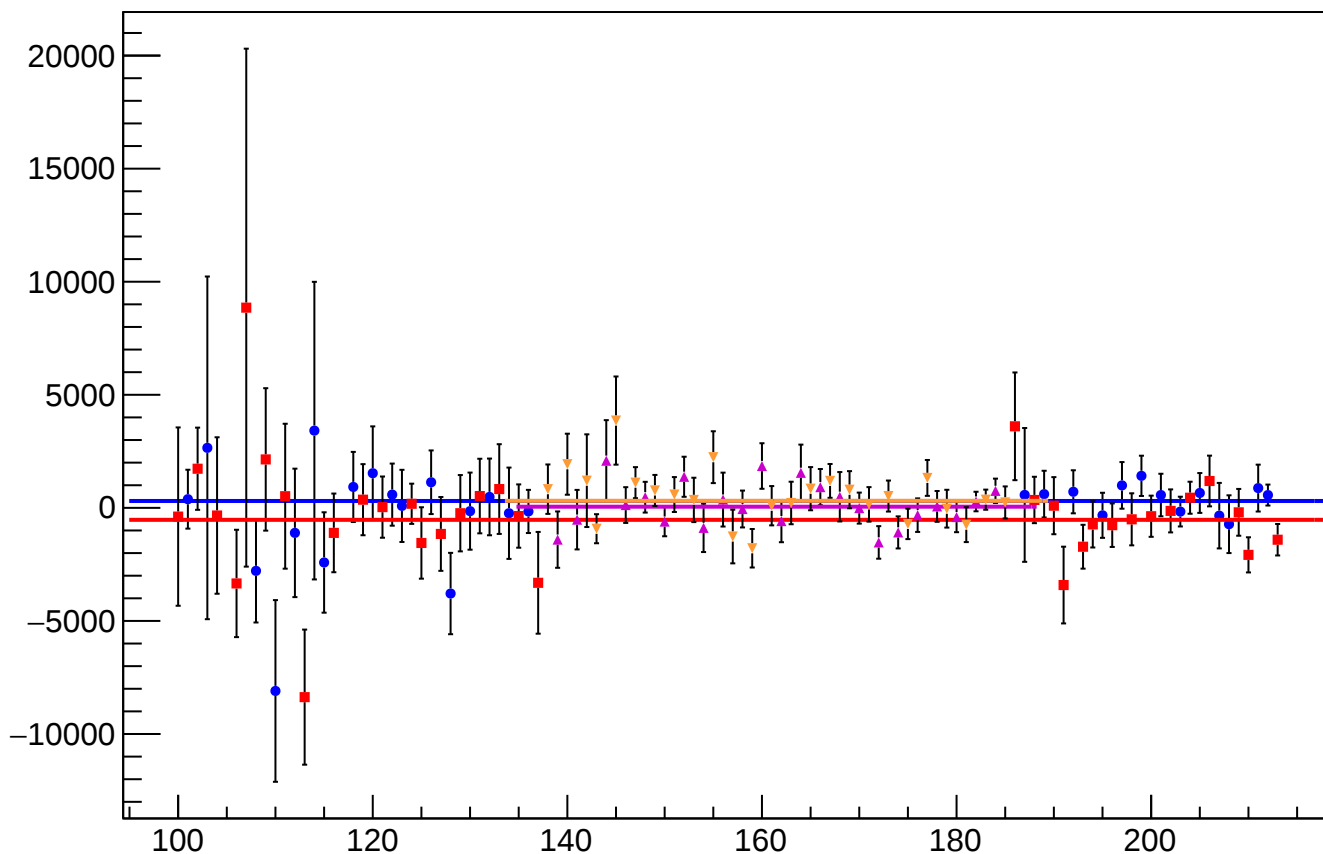
Right: 2470.576 $\pm$ 0.306 χ^2 /NDF: 964370.9/63

In: 2424.228 $\pm$ 0.298 χ^2 /NDF: 332149.5/52

Out: 2450.257 $\pm$ 0.292 χ^2 /NDF: 747147.9/58

All: 2437.530 $\pm$ 0.209 χ^2 /NDF: 1083191.1/11

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 304.638+/-211.230 χ^2/NDF : 19.7/29

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

Right Out: -529.118+/-214.840 χ^2/NDF : 34.2/33

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

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

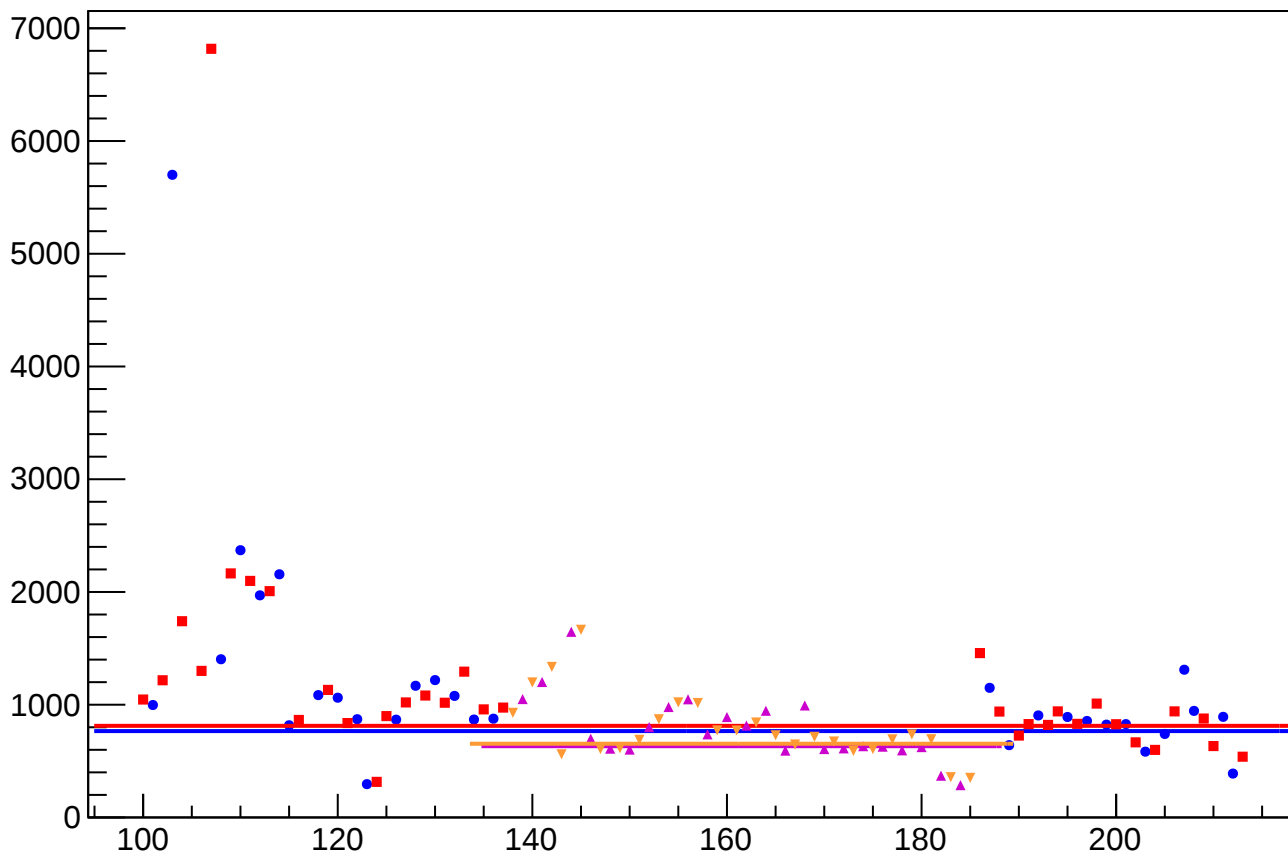
Right: -105.177+/-150.622 χ^2/NDF : 61.5/63

In: 145.035+/-128.420 χ^2/NDF : 44.4/52

Out: 9.629+/-128.658 χ^2/NDF : 73.8/58

All: 77.457+/-90.890 χ^2/NDF : 118.7/111

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 766.128+/-0.149 χ^2/NDF : 4498750.4/29

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

Right Out: 812.655+/-0.152 χ^2/NDF : 3830942.3/33

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

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

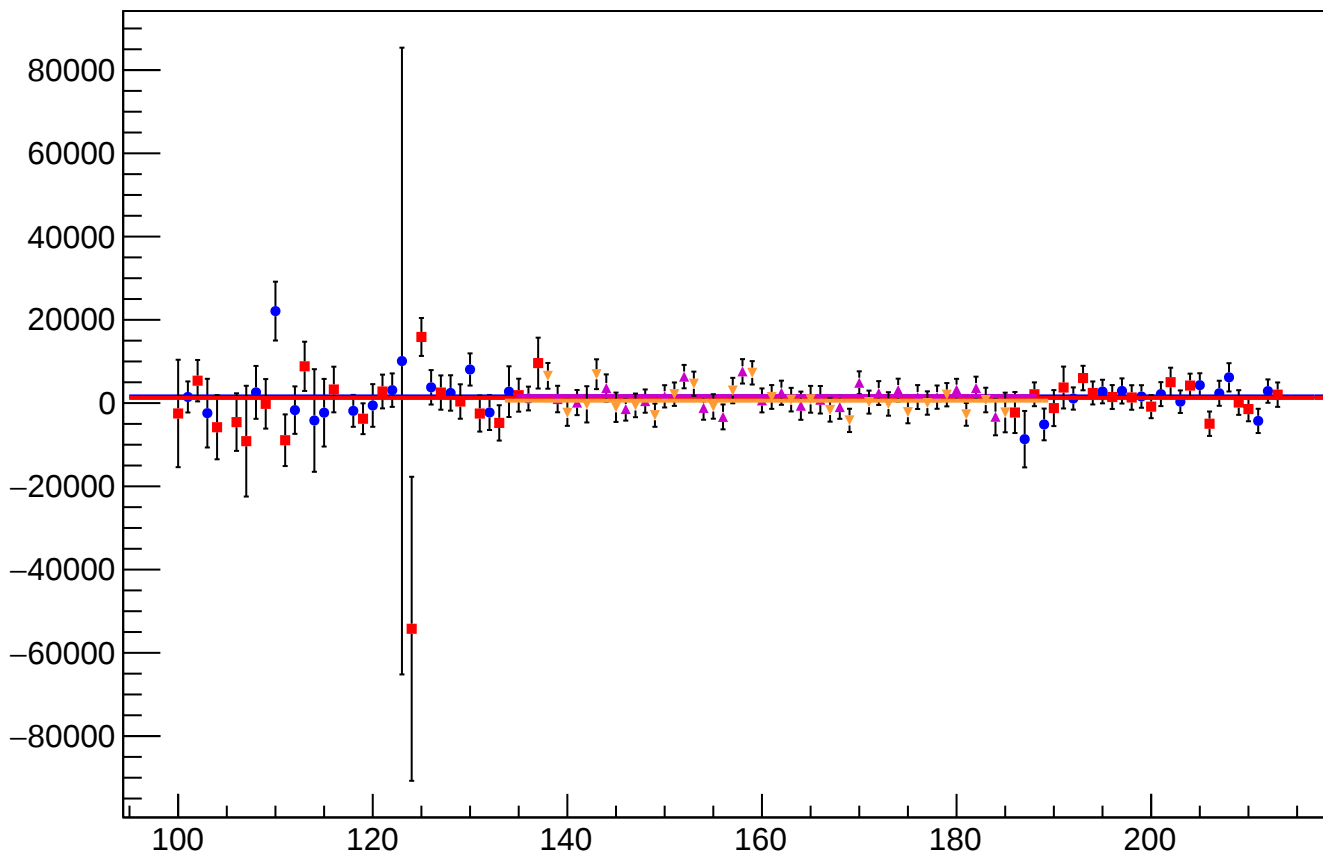
Right: 788.997+/-0.107 χ^2/NDF : 8377387.8/63

In: 681.609+/-0.091 χ^2/NDF : 8949553.5/52

Out: 710.771+/-0.091 χ^2/NDF : 7786926.7/58

All: 696.163+/-0.064 χ^2/NDF : 16787952.5/111

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1603.742 $\pm$ 680.361 χ^2 /NDF: 27.8/29

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

Right Out: 1234.960 $\pm$ 667.743 χ^2 /NDF: 39.2/33

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

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

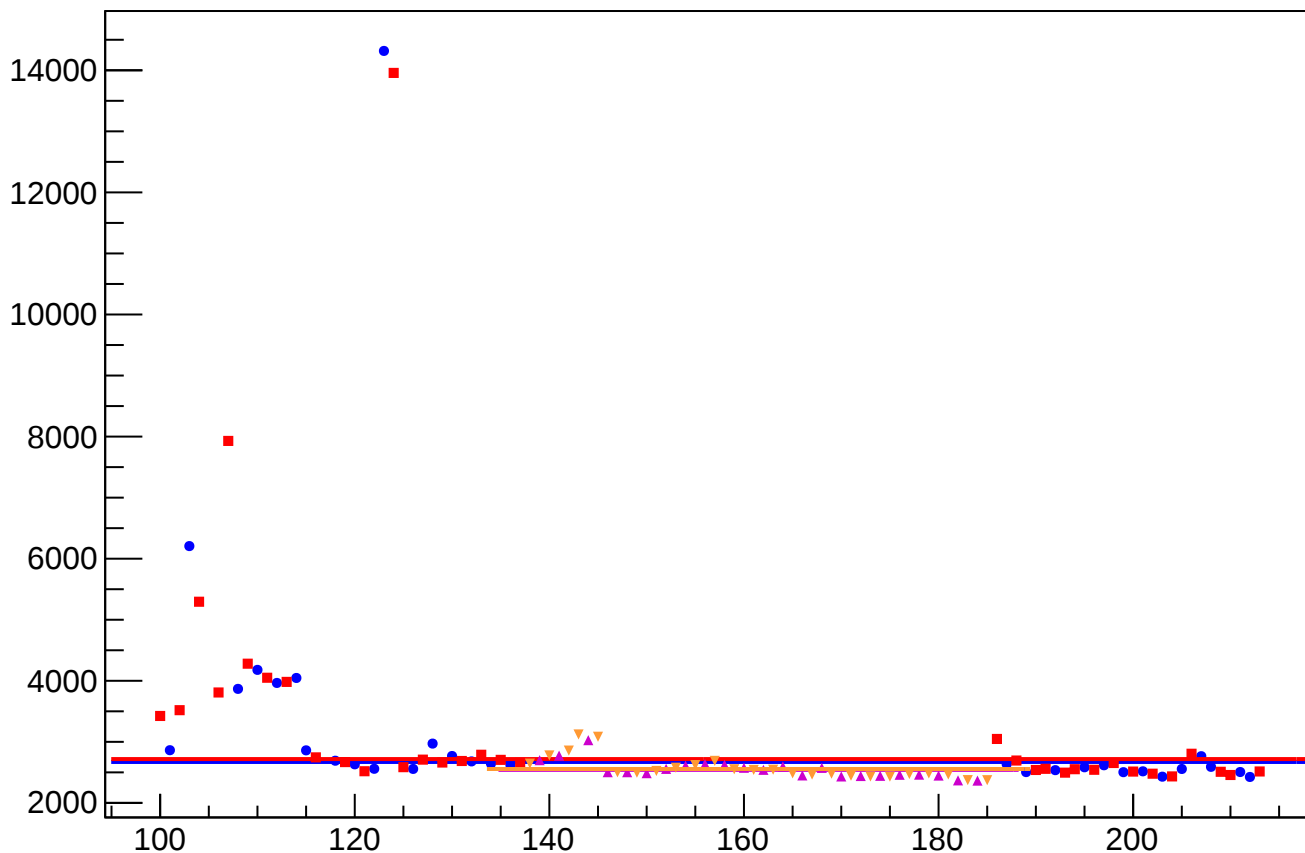
Right: 1415.900 $\pm$ 476.564 χ^2 /NDF: 67.1/63

In: 1645.773 $\pm$ 454.226 χ^2 /NDF:45.9/52

Out: 871.541 $\pm$ 445.131 χ^2 /NDF:65.1/58

All: 1250.829 $\pm$ 317.922 χ^2 /NDF: 112.5/111

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2670.443+/-0.481 χ^2/NDF : 795736.7/29

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

Right Out: 2717.896+/-0.472 χ^2/NDF : 1275992.2/33

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

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

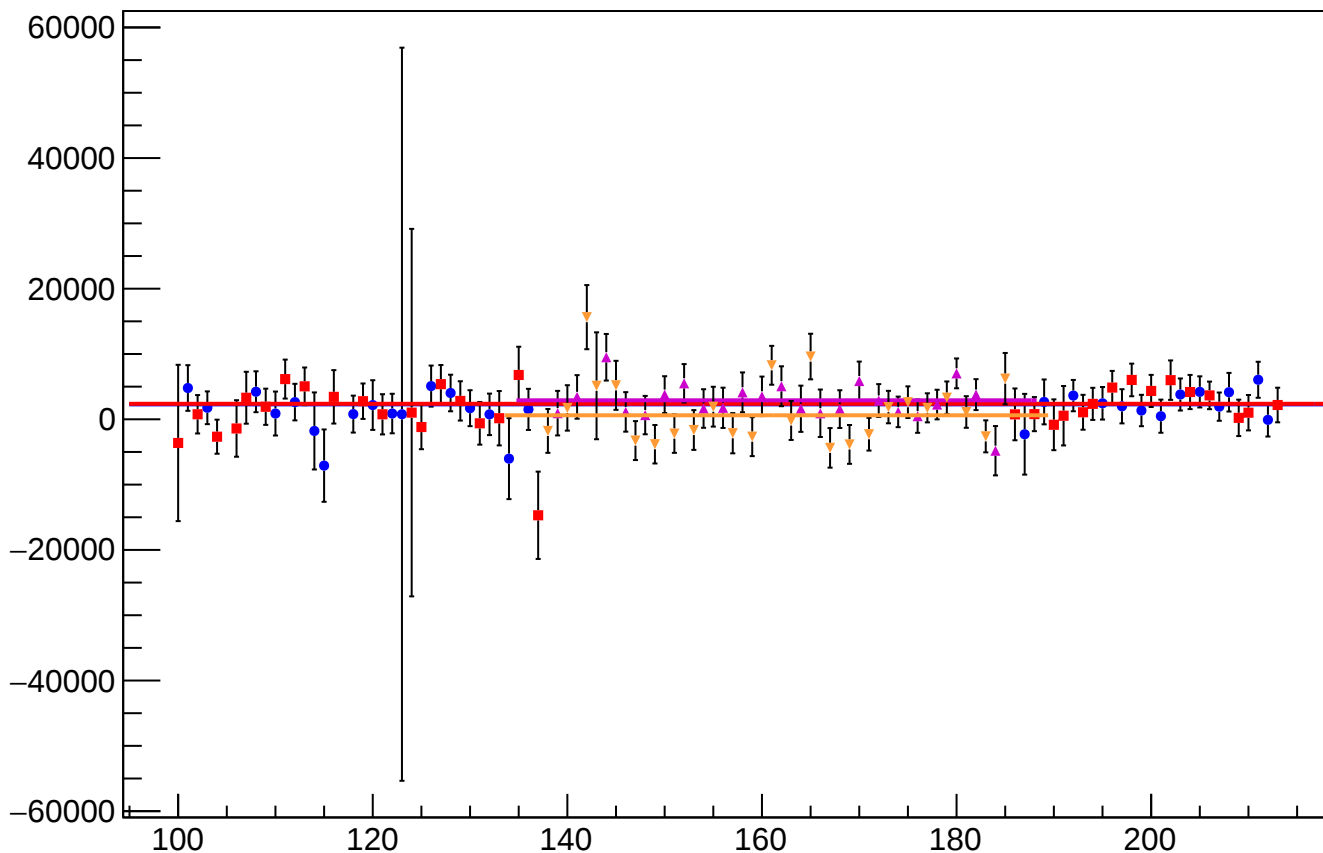
Right: 2694.614+/-0.337 χ^2/NDF : 2076684.5/63

In: 2598.689+/-0.321 χ^2/NDF :930628.0/52

Out: 2627.543+/-0.315 χ^2/NDF :1496640.5/58

All: 2613.408+/-0.225 χ^2/NDF : 2431385.4/111

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2285.405 $\pm$ 543.374 χ^2/NDF : 14.0/29

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

Right Out: 2373.002 $\pm$ 527.805 χ^2/NDF : 27.3/33

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

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

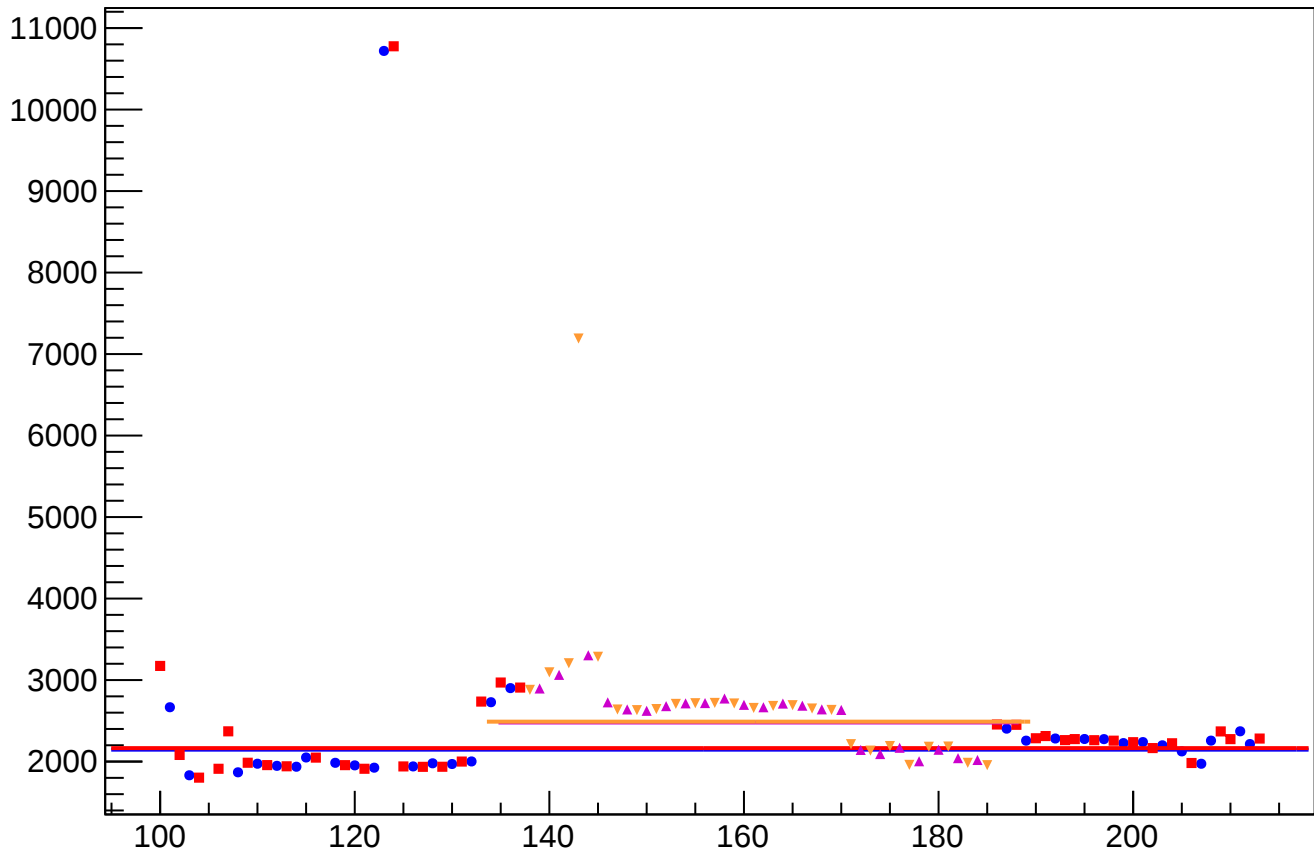
Right: 2330.476 $\pm$ 378.599 χ^2/NDF : 41.3/63

In: 2566.611 $\pm$ 402.660 χ^2/NDF : 32.0/52

Out: 1593.142 $\pm$ 393.712 χ^2/NDF : 77.4/58

All: 2068.940 $\pm$ 281.506 χ^2/NDF : 112.4/111

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2146.208 $\pm$ 0.384 χ^2 /NDF: 398547.9/29

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

Right Out: 2164.784 $\pm$ 0.373 χ^2 /NDF: 567222.4/33

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

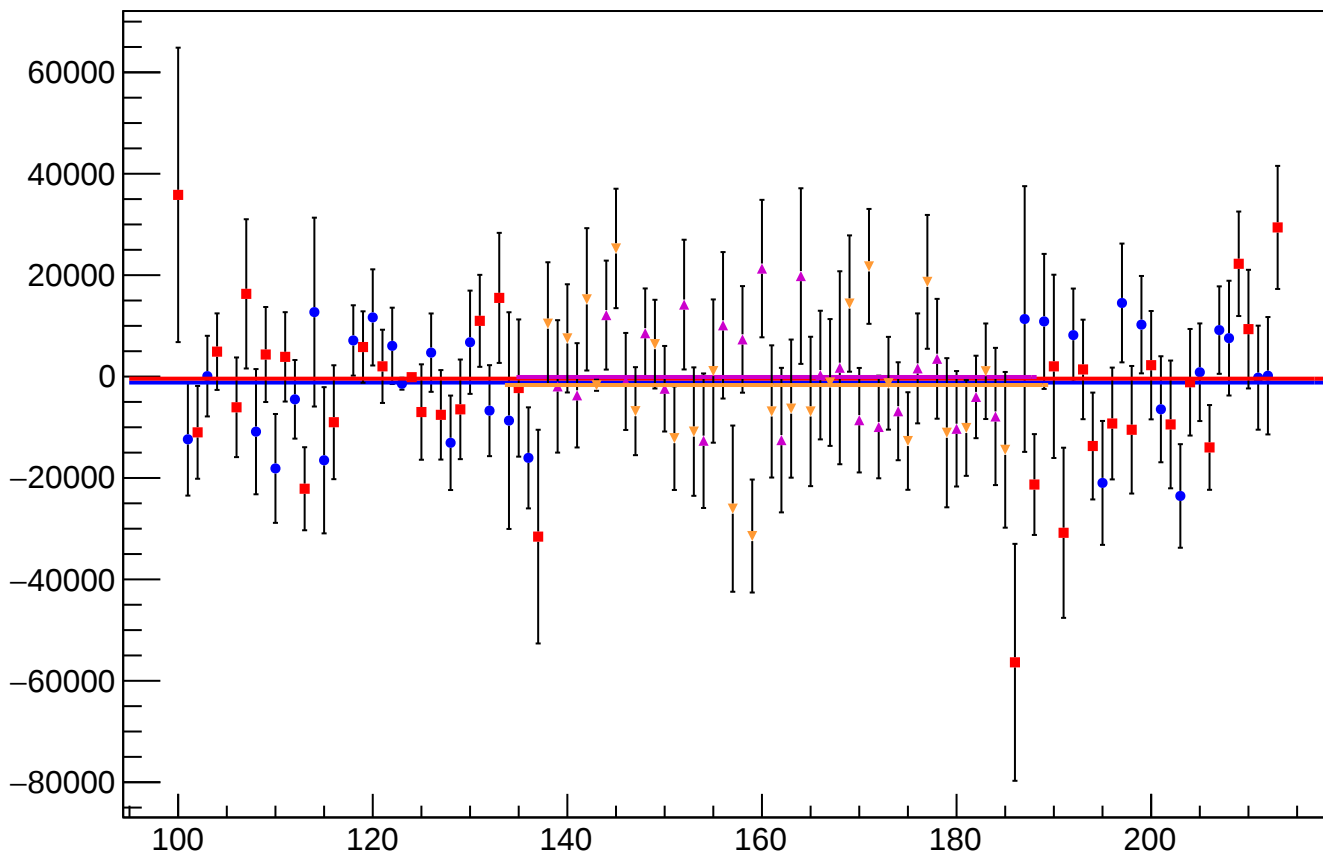
Right: 2155.766 $\pm$ 0.268 χ^2 /NDF: 966972.9/63

In: 2296.409 $\pm$ 0.285 χ^2 /NDF: 1405895.4/52

Out: 2308.852 $\pm$ 0.278 χ^2 /NDF: 2267365.6/58

All: 2302.770 $\pm$ 0.199 χ^2 /NDF: 3674237.4/111

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1178.842 ± 994.762 χ^2/NDF : 30.9/29

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

Right Out: -412.462 ± 676.864 χ^2/NDF : 52.2/33

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

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

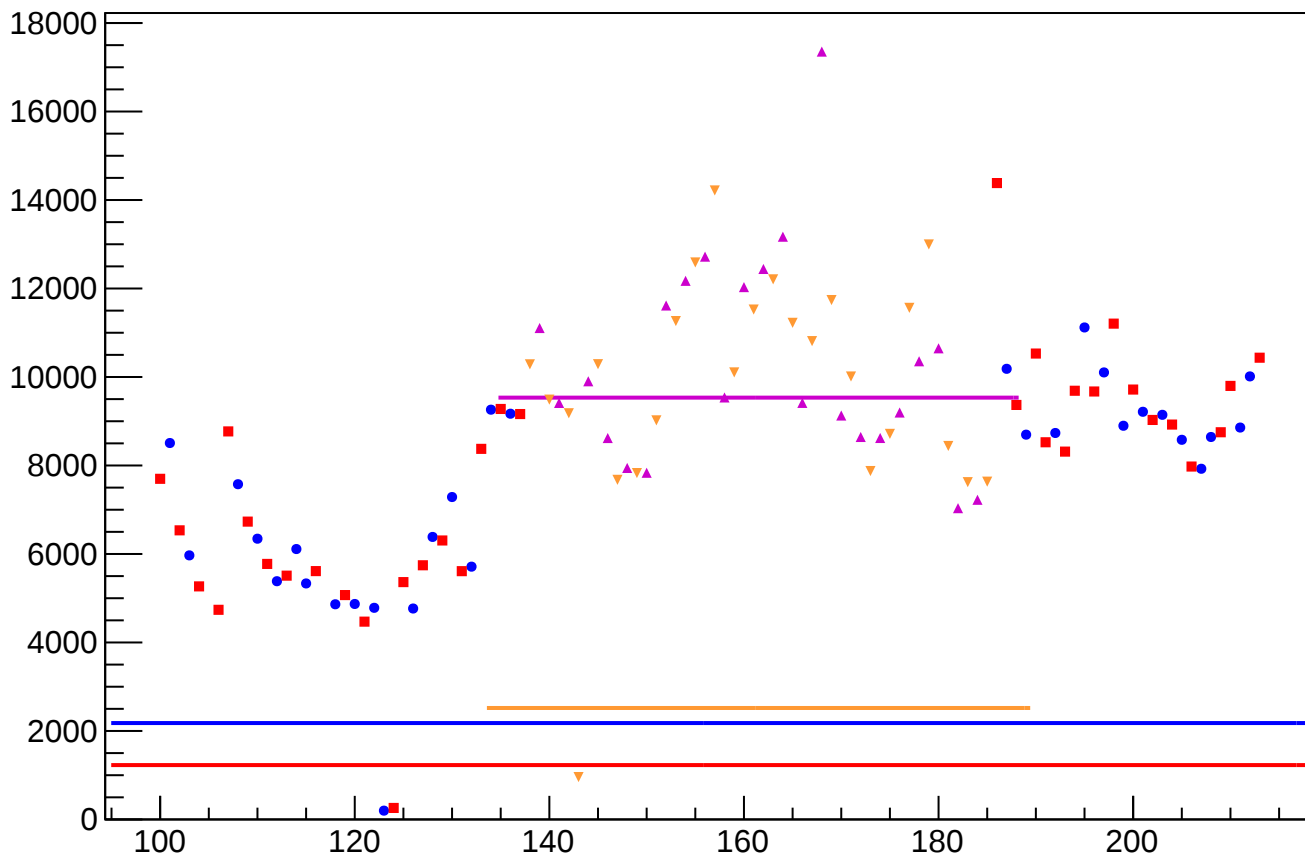
Right: -654.995 ± 559.606 χ^2/NDF : 83.4/63

In: -1009.661 ± 914.964 χ^2/NDF : 44.9/52

Out: -809.907 ± 559.302 χ^2/NDF : 85.6/58

All: -864.244 ± 477.206 χ^2/NDF : 130.5/111

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2178.743+/-0.703

χ^2/NDF : 22011049.1/29

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

Right: 1529.476+/-0.396 χ^2/NDF : 50837325.9/63

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 3311.398+/-0.647 χ^2/NDF : 40164552.2/52

Right Out: 1228.877+/-0.479

χ^2/NDF : 27579819.7/33

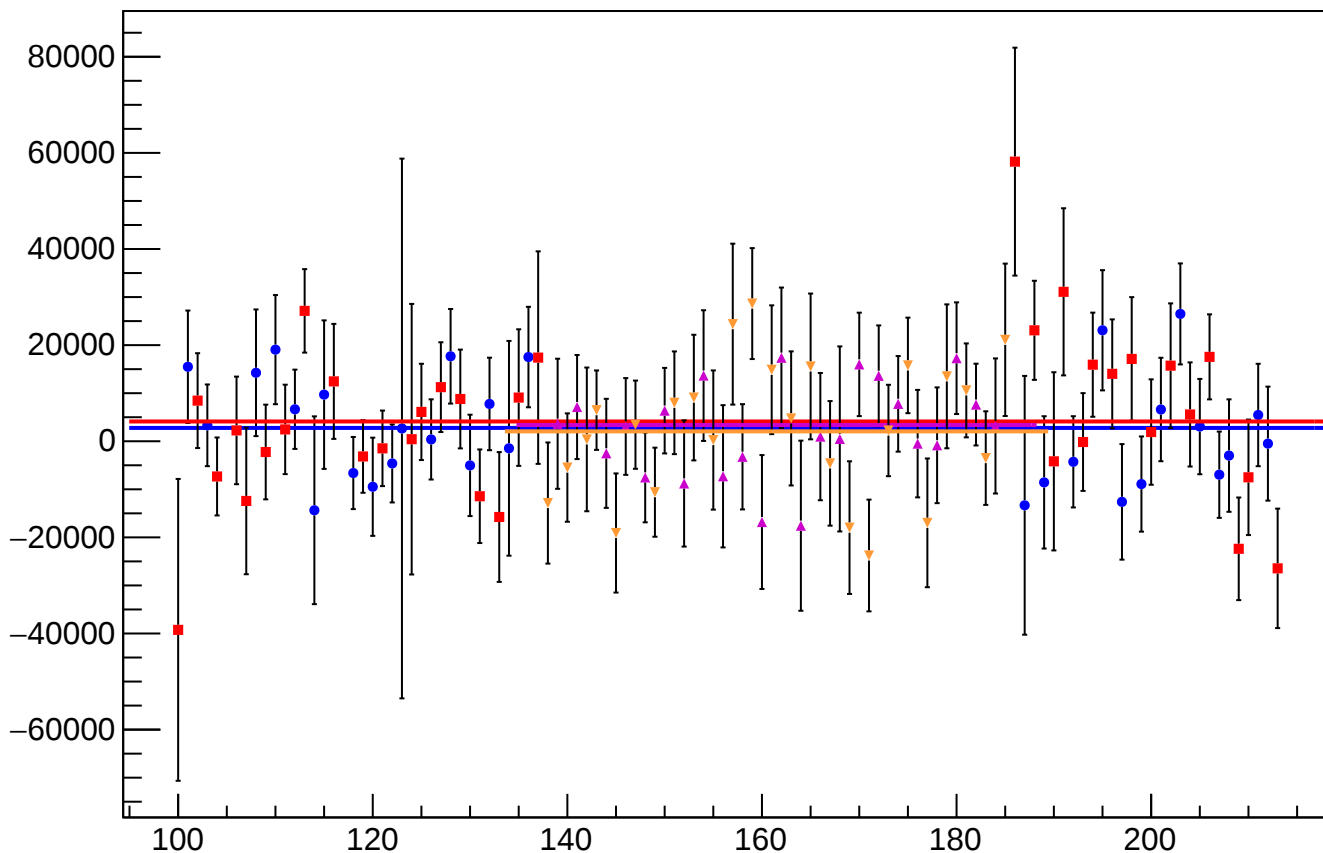
Out: 1638.226+/-0.395 χ^2/NDF : 53528007.5/58

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 2093.365+/-0.337 χ^2/NDF : 98561357.5/100

asym_atl2_mean vs Slug, Sign Corrected



Right In: 2774.403+/-1963.485 χ^2/NDF : 28.3/29

Left Out: 2055.950+/-2333.494 χ^2/NDF : 30.7/24

Right Out: 4118.387+/-1900.175 χ^2/NDF : 51.4/33

Left In: 3371.931+/-2423.242 χ^2/NDF : 13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47

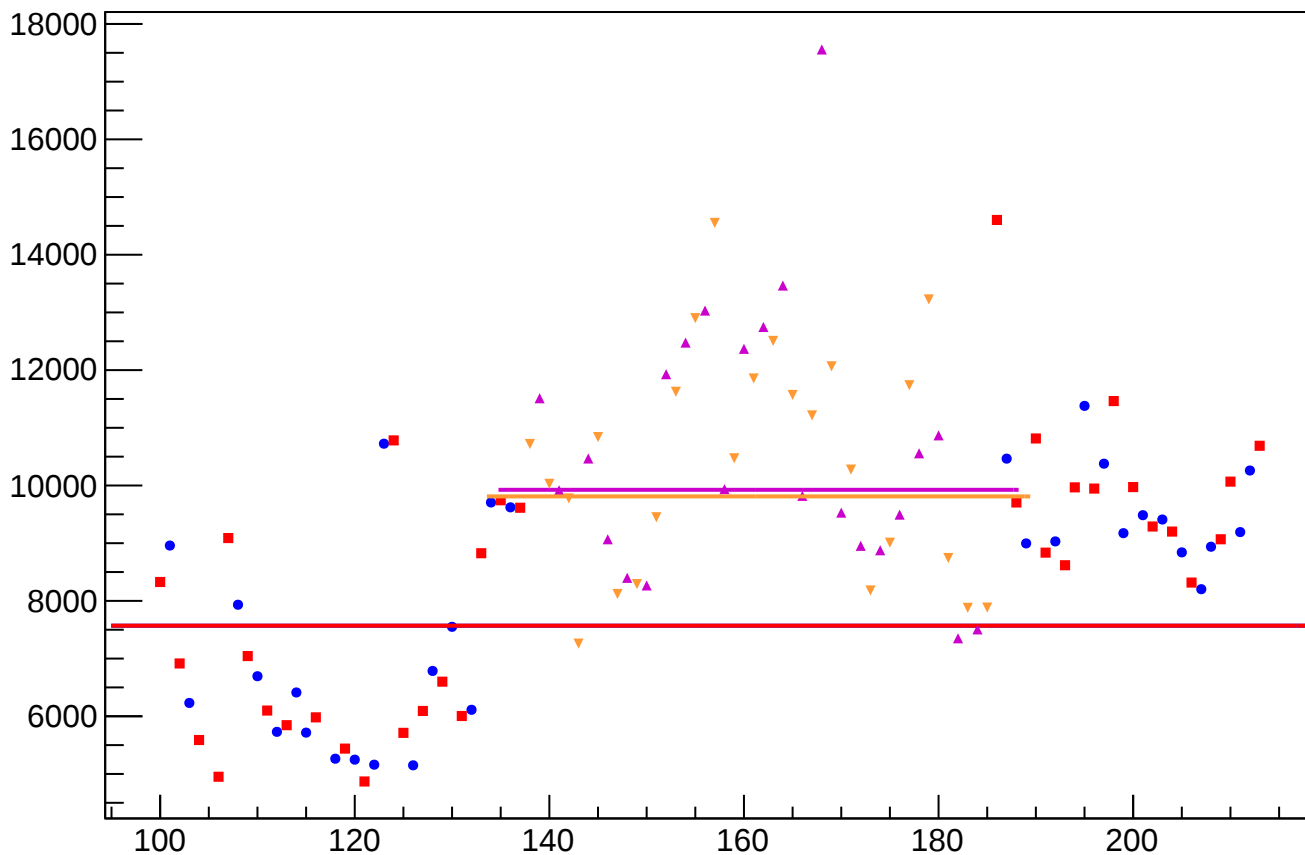
Right: 3468.412+/-1365.460 χ^2/NDF : 79.9/63

In: 3011.223+/-1525.550 χ^2/NDF : 41.4/52

Out: 3296.072+/-1473.450 χ^2/NDF : 82.6/58

All: 3158.594+/-1059.827 χ^2/NDF : 124.0/111

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7569.582 $\pm$ 1.388 χ^2 /NDF: 1806726.0/29

Left Out: 9811.053 $\pm$ 1.650 χ^2 /NDF: 1213831.0/24

Right Out: 7570.018 $\pm$ 1.344 χ^2 /NDF: 2286337.3/33

Left In: 9925.337 $\pm$ 1.713 χ^2 /NDF: 1211554.7/22

Left: 9866.039 $\pm$ 1.189 χ^2 /NDF: 2427693.8/47

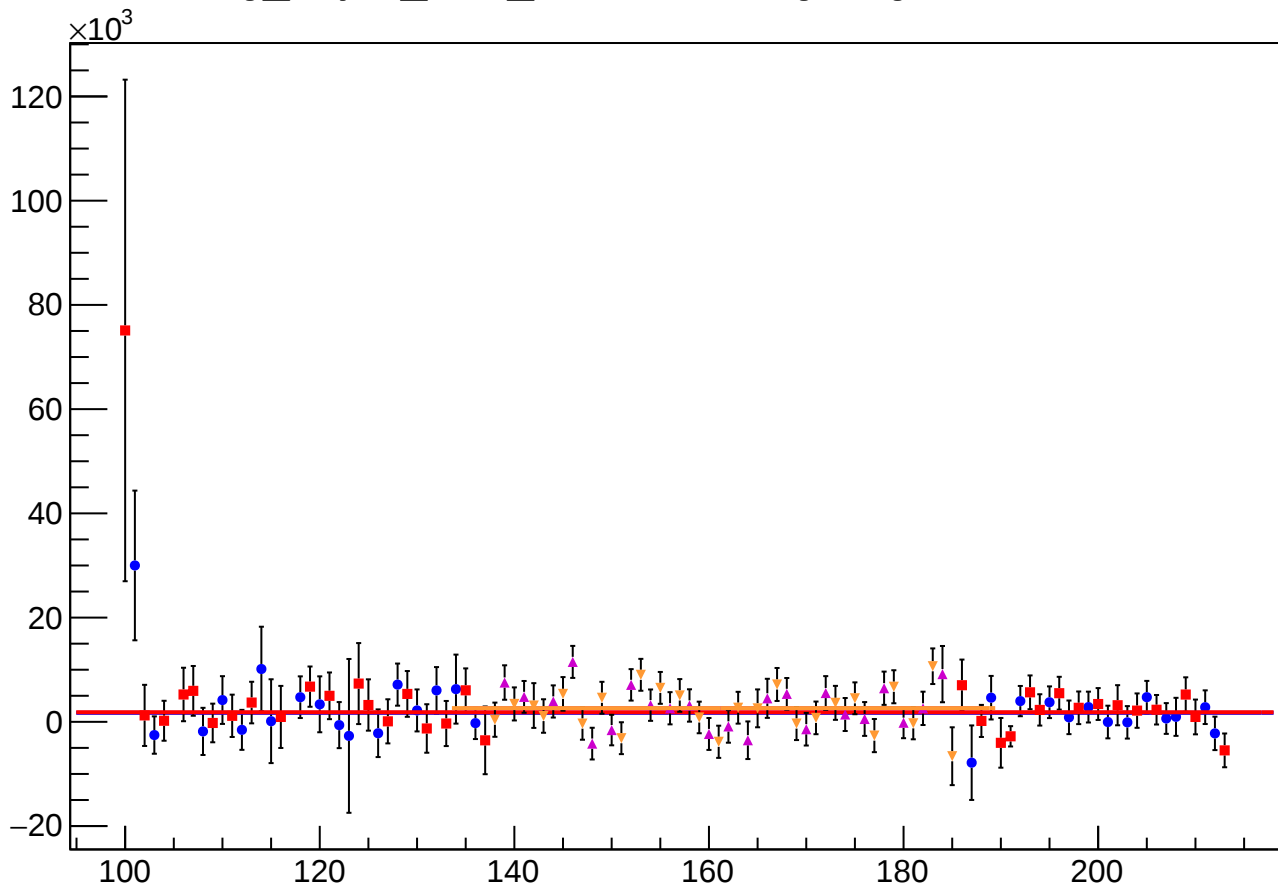
Right: 7569.807 $\pm$ 0.965 χ^2 /NDF: 4093063.4/63

In: 8503.212 $\pm$ 1.079 χ^2 /NDF: 4159329.5/52

Out: 8463.481 $\pm$ 1.042 χ^2 /NDF: 4609386.2/58

All: 8482.656 $\pm$ 0.749 χ^2 /NDF: 8769417.5/111

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1728.534 ± 709.617 $\chi^2/\text{NDF}: 20.4/29$

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

Right Out: 1838.518 ± 645.890 $\chi^2/\text{NDF}: 28.2/33$

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

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

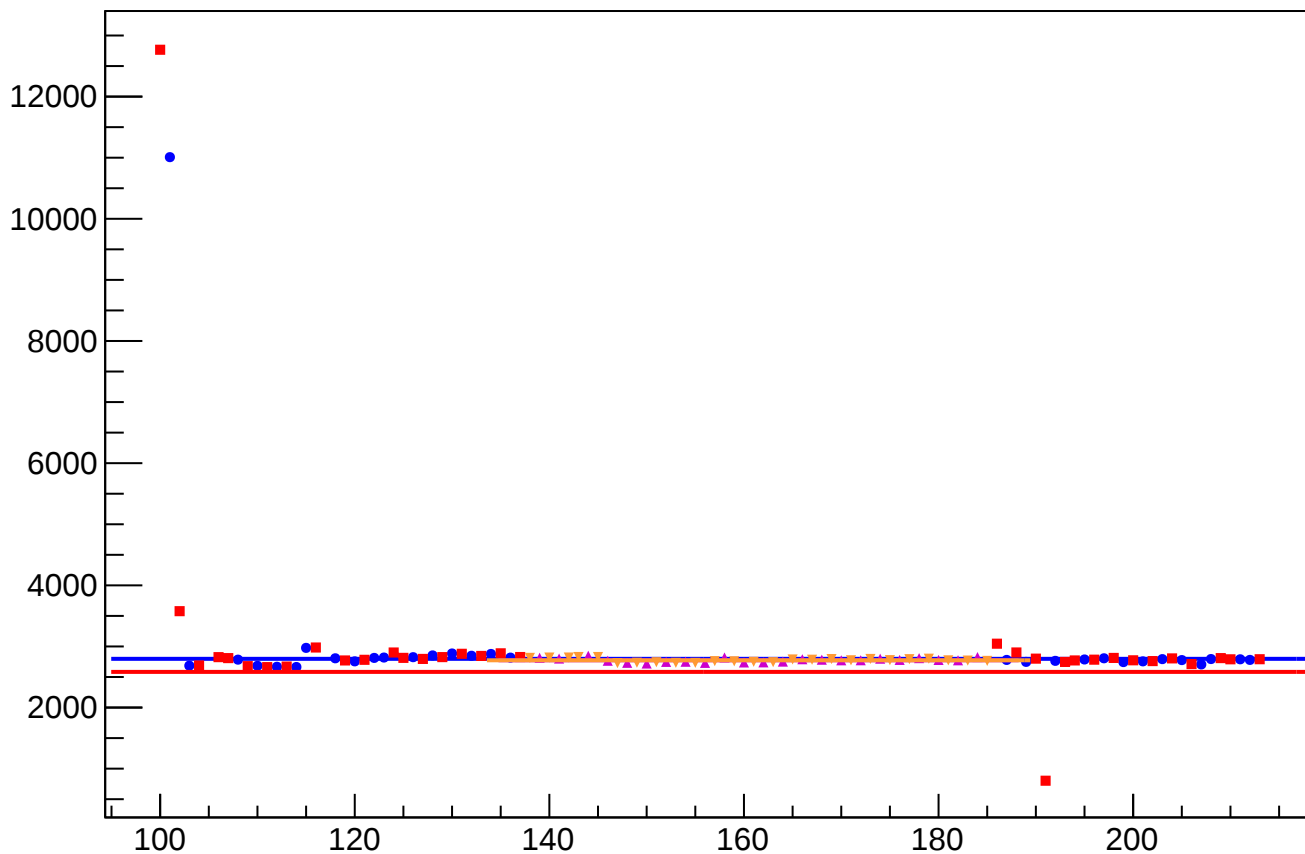
Right: 1788.685 ± 477.657 $\chi^2/\text{NDF}: 48.6/63$

In: 2213.372 ± 485.065 $\chi^2/\text{NDF}: 56.5/52$

Out: 2237.033 ± 456.795 $\chi^2/\text{NDF}: 64.0/58$

All: 2225.912 ± 332.548 $\chi^2/\text{NDF}: 120.5/111$

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2797.450+/-0.502 χ^2/NDF : 666686.4/29

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

Right Out: 2583.684+/-0.457 χ^2/NDF : 2022414.6/33

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

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

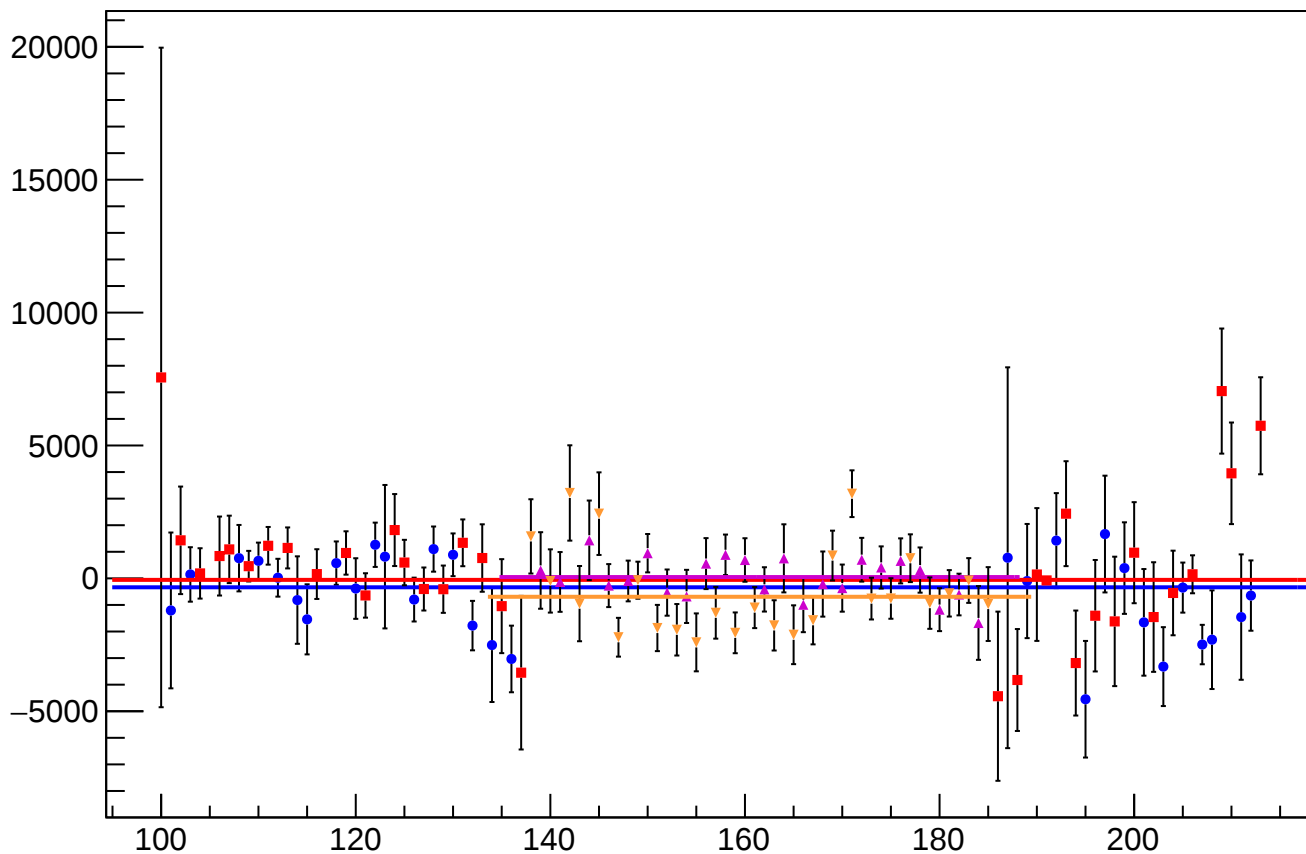
Right: 2680.539+/-0.338 χ^2/NDF : 2788362.0/63

In: 2784.976+/-0.343 χ^2/NDF : 672831.8/52

Out: 2678.664+/-0.323 χ^2/NDF : 2113562.0/58

All: 2728.632+/-0.235 χ^2/NDF : 2837310.5/11

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -336.072 ± 208.512 $\chi^2/\text{NDF}: 43.0/29$

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

Right Out: -56.733 ± 37.802 $\chi^2/\text{NDF}: 53.8/33$

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

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

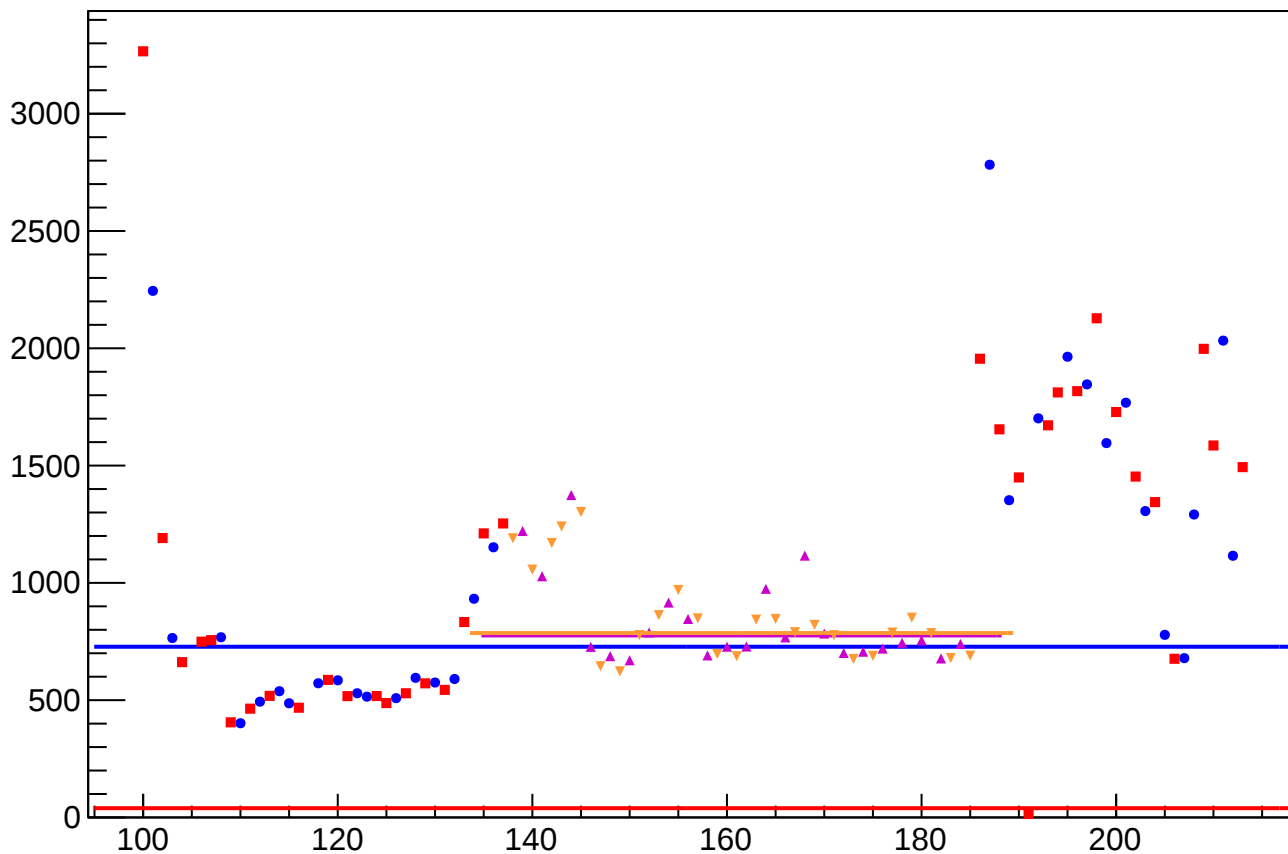
Right: -65.622 ± 37.196 $\chi^2/\text{NDF}: 98.5/63$

In: -124.738 ± 140.112 $\chi^2/\text{NDF}: 58.5/52$

Out: -81.630 ± 37.055 $\chi^2/\text{NDF}: 120.8/58$

All: -84.448 ± 35.824 $\chi^2/\text{NDF}: 179.5/111$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 727.758+/-0.147

χ^2/NDF : 6497670.2/29

Left Out: 786.173+/-0.132

χ^2/NDF :1249536.1/24

Right Out: 39.469+/-0.027

χ^2/NDF : 30838728.6/33

Left In: 775.930+/-0.134

χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094

χ^2/NDF : 2309263.4/47

Right: 61.372+/-0.026

χ^2/NDF : 58435602.7/63

In: 754.179+/-0.099

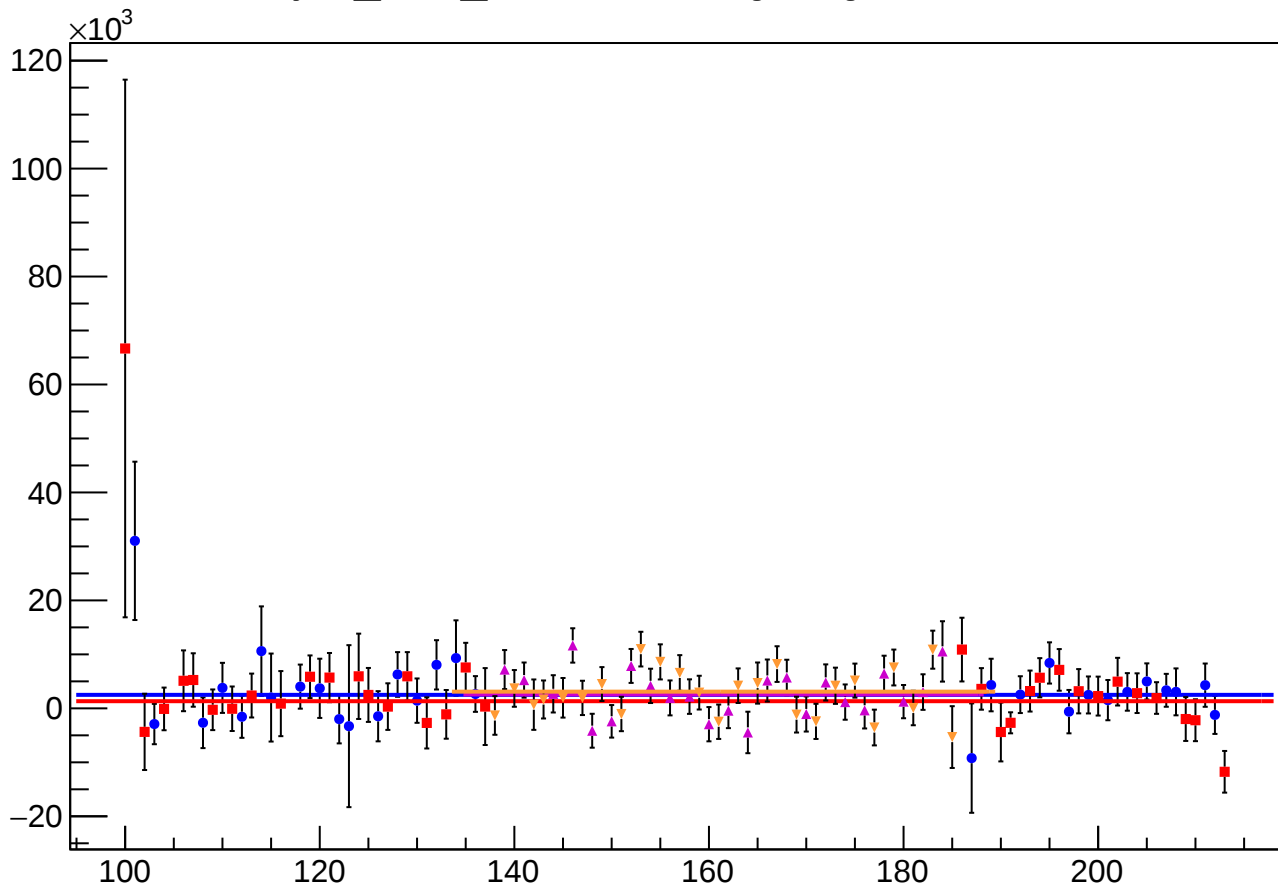
χ^2/NDF :7612984.6/52

Out: 68.696+/-0.026

χ^2/NDF :62632067.9/58

All: 113.508+/-0.025 χ^2/NDF : 114986935.9/100

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2499.990 $\pm$ 782.169 χ^2 /NDF: 21.1/29

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

Right Out: 1324.805 $\pm$ 709.806 χ^2 /NDF: 36.9/33

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

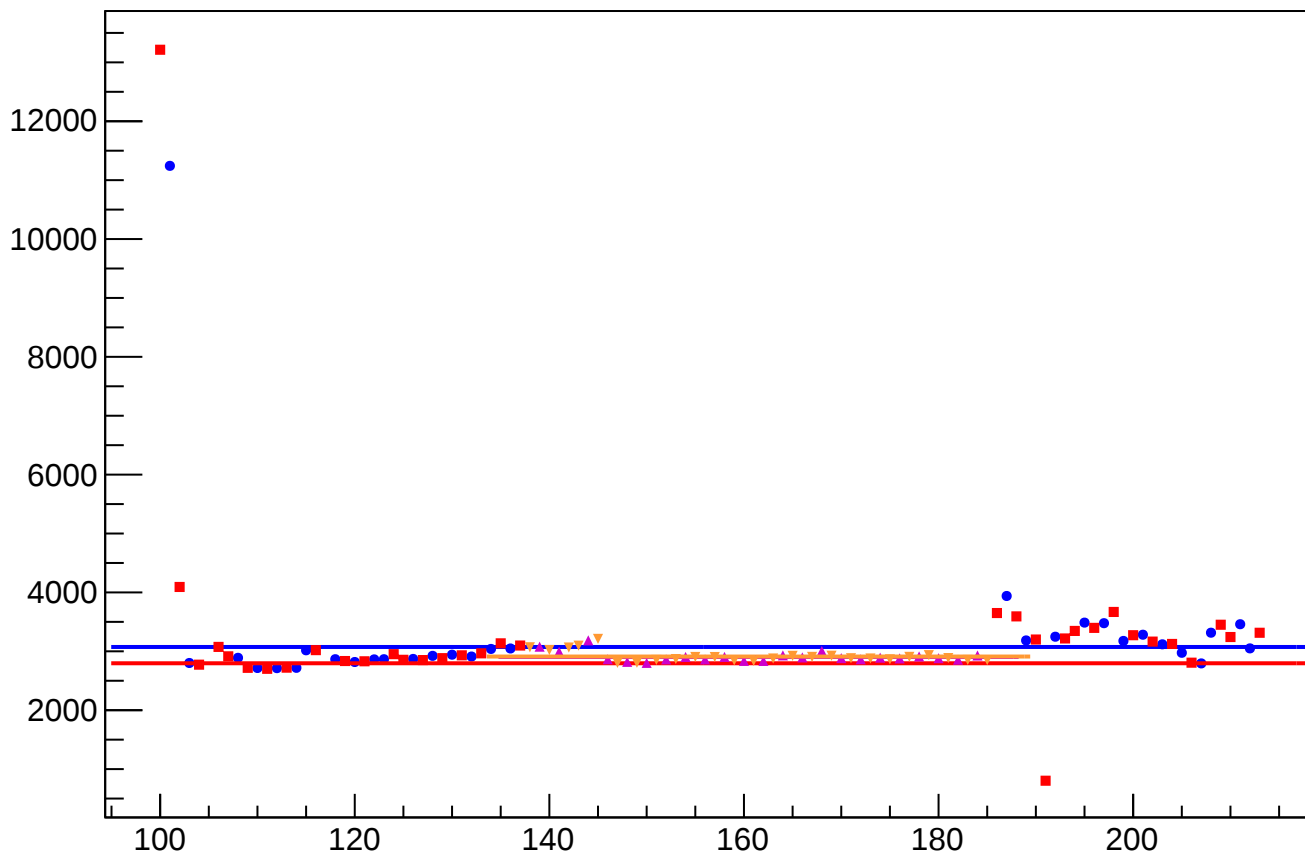
Right: 1855.533 $\pm$ 525.634 χ^2 /NDF: 59.3/63

In: 2540.850 $\pm$ 519.867 χ^2 /NDF: 56.8/52

Out: 2249.695 $\pm$ 490.470 χ^2 /NDF: 78.8/58

All: 2386.808 $\pm$ 356.755 χ^2 /NDF: 135.8/111

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3073.661+/-0.553 χ^2/NDF : 808453.6/29

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

Right Out: 2796.974+/-0.502 χ^2/NDF : 2808394.0/33

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

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

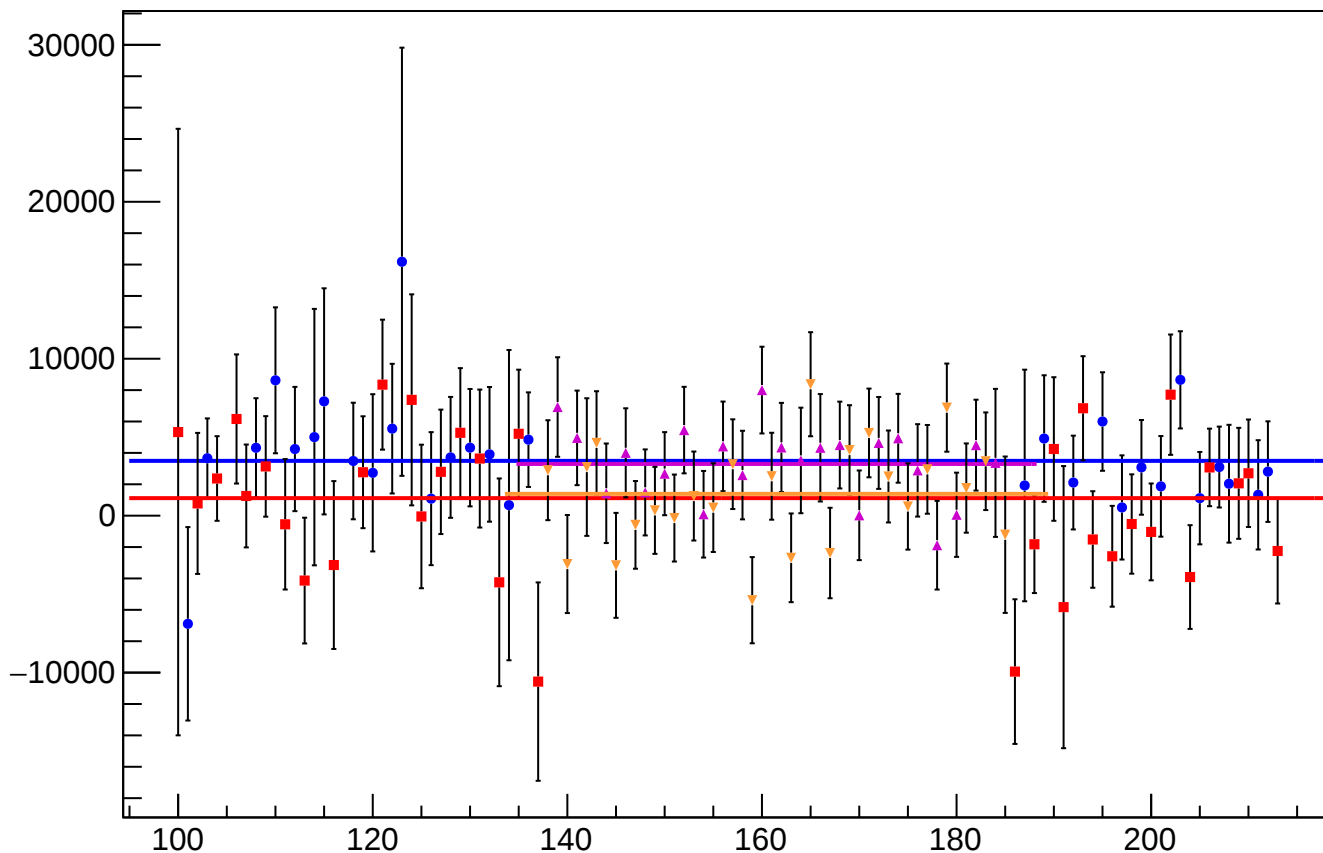
Right: 2921.929+/-0.372 χ^2/NDF : 3754091.8/63

In: 2978.620+/-0.368 χ^2/NDF :890188.5/52

Out: 2856.674+/-0.347 χ^2/NDF :2872114.7/58

All: 2914.102+/-0.252 χ^2/NDF : 3820526.2/11

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3492.014 $\pm$ 676.635 χ^2 /NDF: 12.4/29

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

Right Out: 1116.649 $\pm$ 649.458 χ^2 /NDF: 36.2/33

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

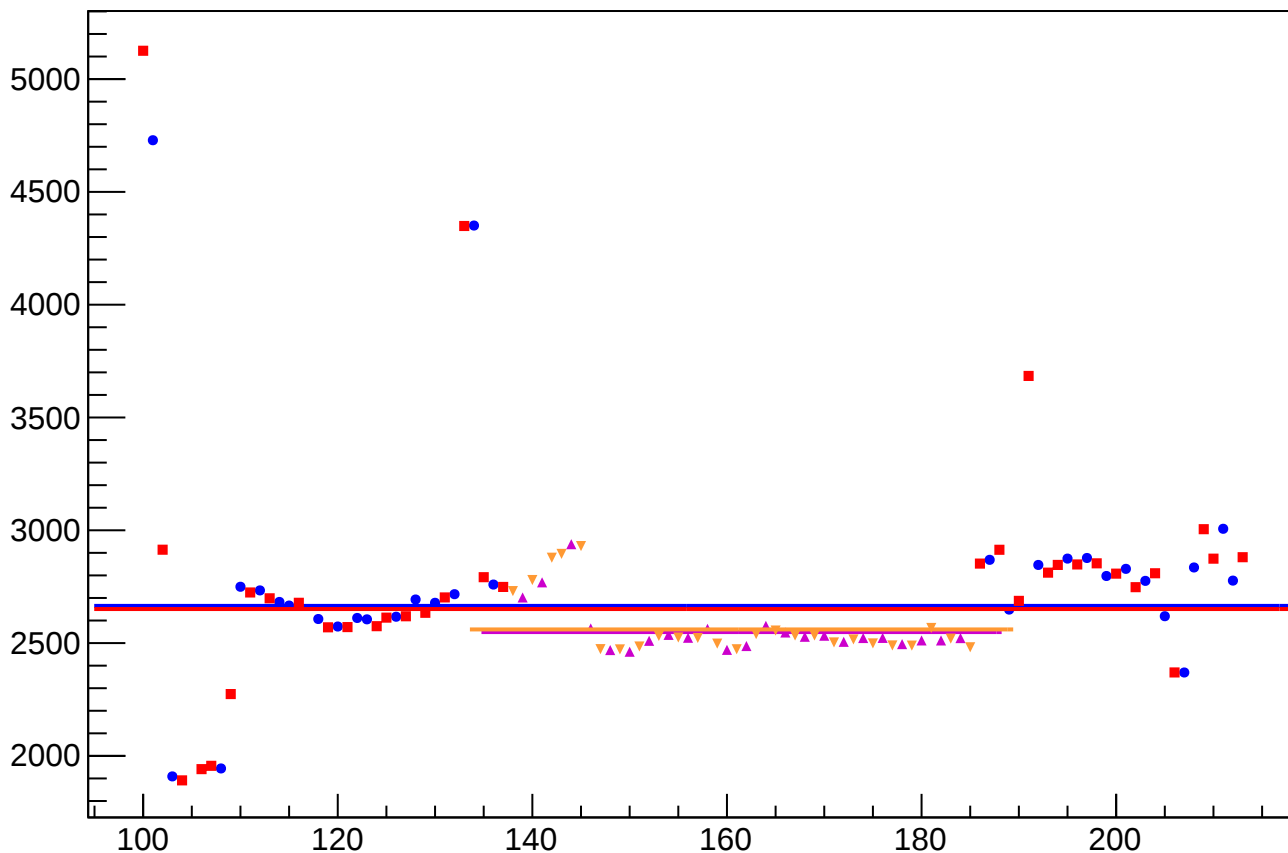
Right: 2255.673 $\pm$ 468.549 χ^2 /NDF: 55.0/63

In: 3383.532 $\pm$ 453.063 χ^2 /NDF: 27.3/52

Out: 1265.067 $\pm$ 439.327 χ^2 /NDF: 65.5/58

All: 2291.698 $\pm$ 315.395 χ^2 /NDF: 104.1/111

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2664.866 $\pm$ 0.478 χ^2 /NDF: 659749.9/29

Left Out: 2560.531 $\pm$ 0.422 χ^2 /NDF: 86771.4/24

Right Out: 2650.943 $\pm$ 0.459 χ^2 /NDF: 661838.5/33

Left In: 2548.870 $\pm$ 0.431 χ^2 /NDF: 55266.2/22

Left: 2554.831 $\pm$ 0.302 χ^2 /NDF: 142411.2/47

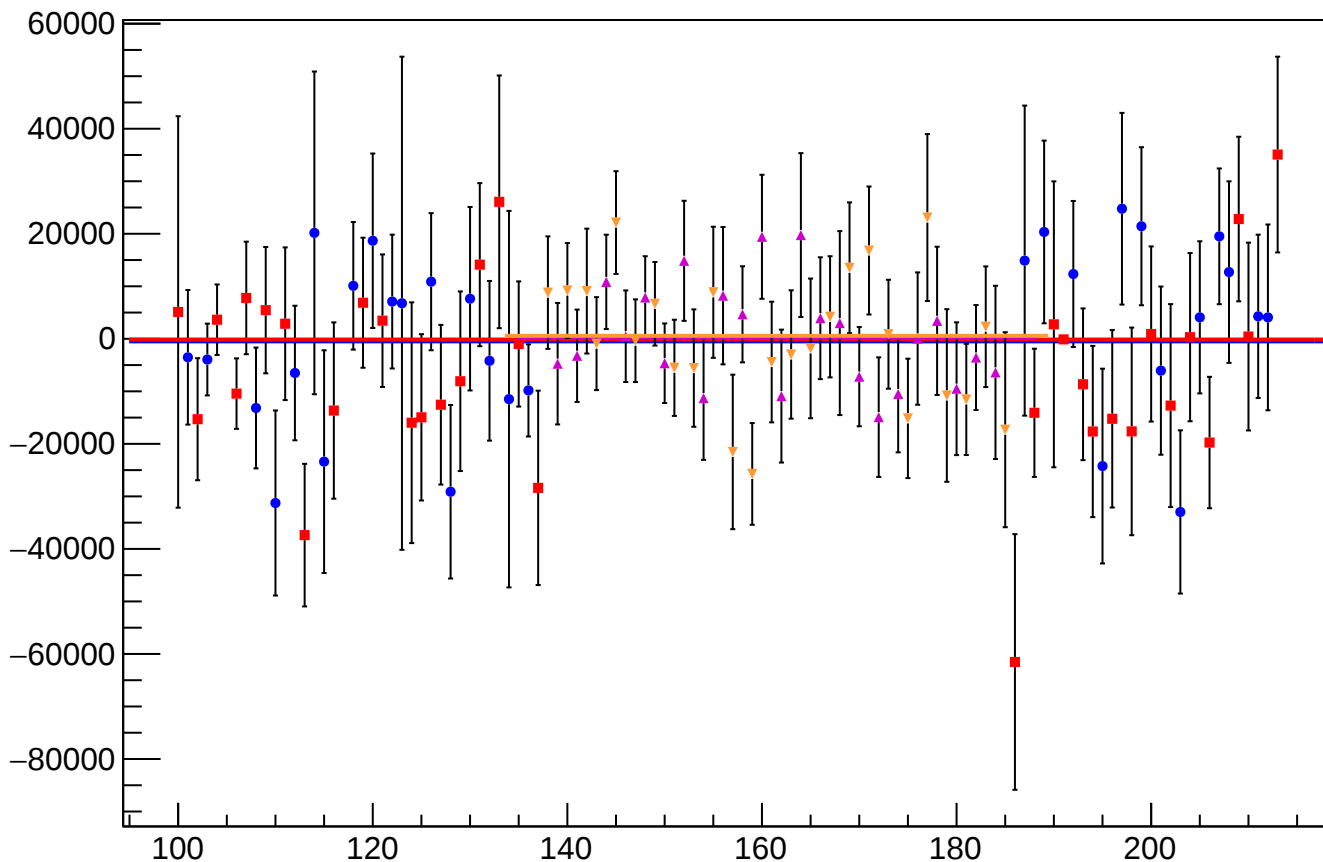
Right: 2657.619 $\pm$ 0.331 χ^2 /NDF: 1322029.1/63

In: 2600.876 $\pm$ 0.320 χ^2 /NDF: 747441.1/52

Out: 2601.902 $\pm$ 0.311 χ^2 /NDF: 769633.4/58

All: 2601.405 $\pm$ 0.223 χ^2 /NDF: 1517079.8/111

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -481.872 $\pm$ 2625.760 χ^2 /NDF: 30.1/29

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

Right Out: -138.293 $\pm$ 194.905 χ^2 /NDF: 39.8/33

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

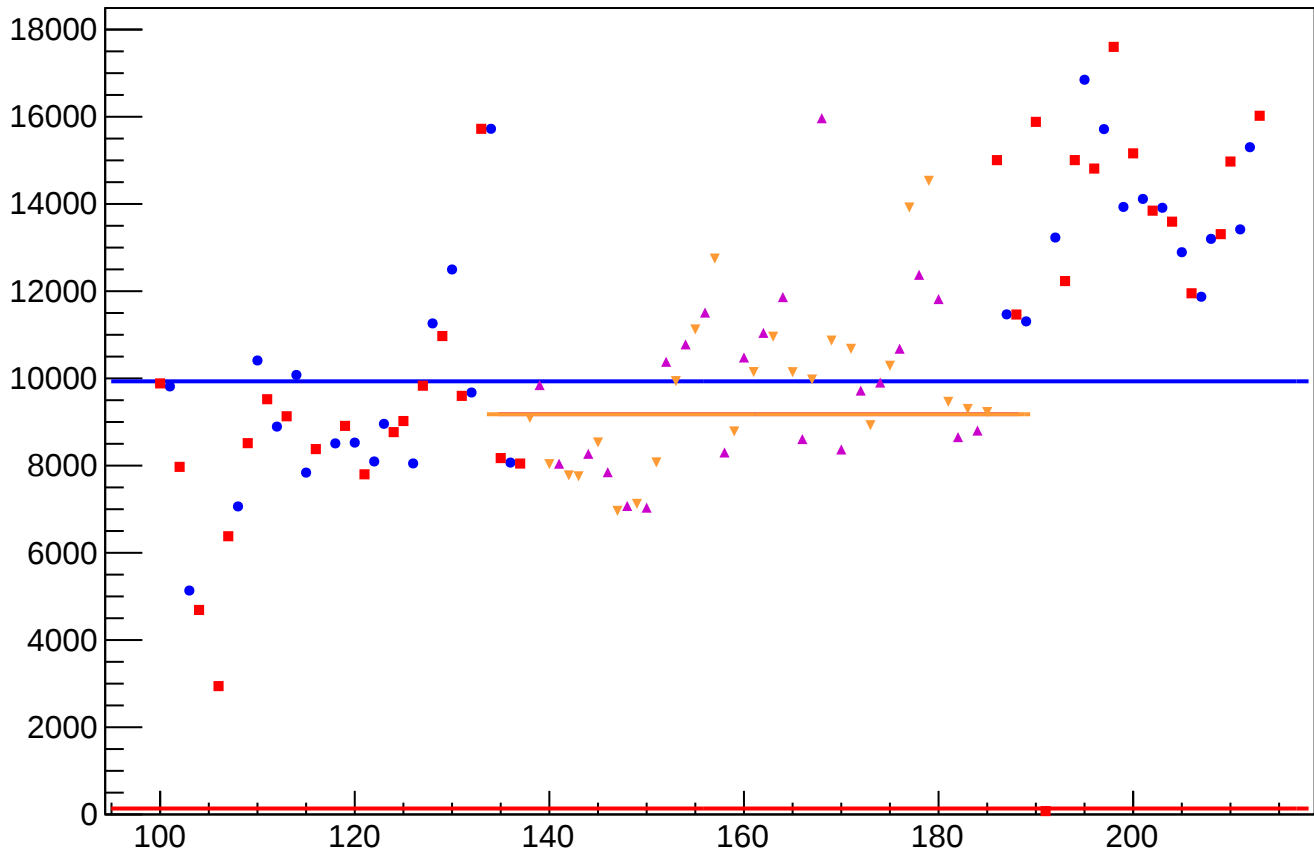
Right: -140.175 $\pm$ 194.371 χ^2 /NDF: 69.9/63

In: -44.205 $\pm$ 1705.394 χ^2 /NDF:45.8/52

Out: -132.679 $\pm$ 194.134 χ^2 /NDF:68.1/58

All: -131.547 $\pm$ 192.888 χ^2 /NDF: 114.0/111

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 9933.025+/-1.857

χ^2/NDF : 2973301.7/29

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right Out: 136.036+/-0.138

χ^2/NDF : 32825558.1/33

Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Right: 189.720+/-0.137

χ^2/NDF : 63488593.2/63

In: 9498.375+/-1.206

χ^2/NDF : 4304557.6/52

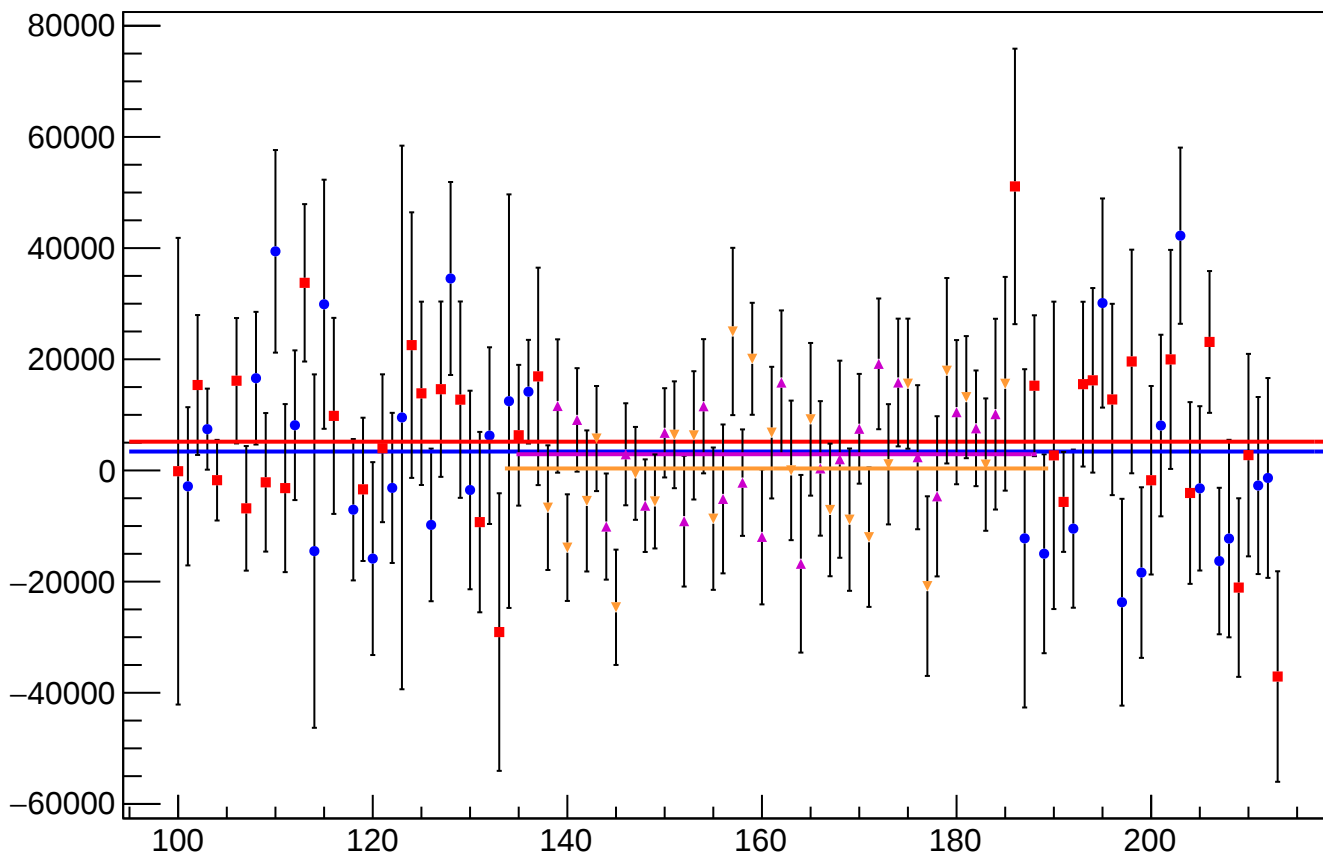
Out: 207.452+/-0.137

χ^2/NDF : 67997672.8/58

All: 326.309+/-0.136

χ^2/NDF : 130903451.4/130

asym_atr2_mean vs Slug, Sign Corrected



Right In: 3402.727 $\pm$ 2742.218 χ^2 /NDF: 33.3/29

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

Right Out: 5175.602 $\pm$ 2496.242 χ^2 /NDF: 31.2/33

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

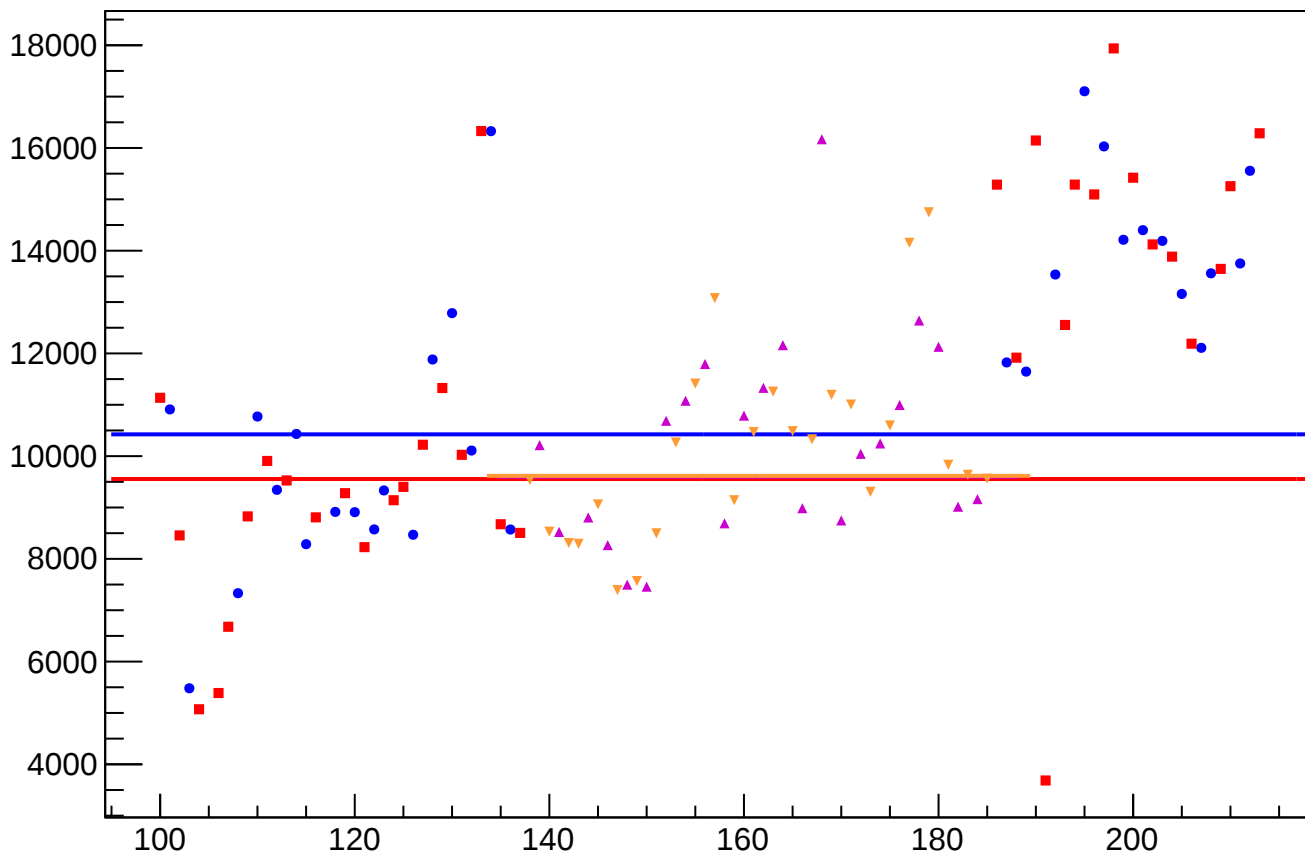
Right: 4372.228 $\pm$ 1845.958 χ^2 /NDF: 64.7/63

In: 3122.290 $\pm$ 1779.337 χ^2 /NDF:48.2/52

Out: 2549.652 $\pm$ 1684.147 χ^2 /NDF:59.4/58

All: 2820.245 $\pm$ 1223.140 χ^2 /NDF: 107.7/111

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10424.394 $\pm$ 1.939 χ^2 /NDF: 2699471.9/29

Left Out: 9616.245 $\pm$ 1.613 χ^2 /NDF: 1011665.6/24

Right Out: 9554.714 $\pm$ 1.765 χ^2 /NDF: 4576371.8/33

Left In: 9598.531 $\pm$ 1.654 χ^2 /NDF: 1082171.6/22

Left: 9607.606 $\pm$ 1.155 χ^2 /NDF: 2093896.0/47

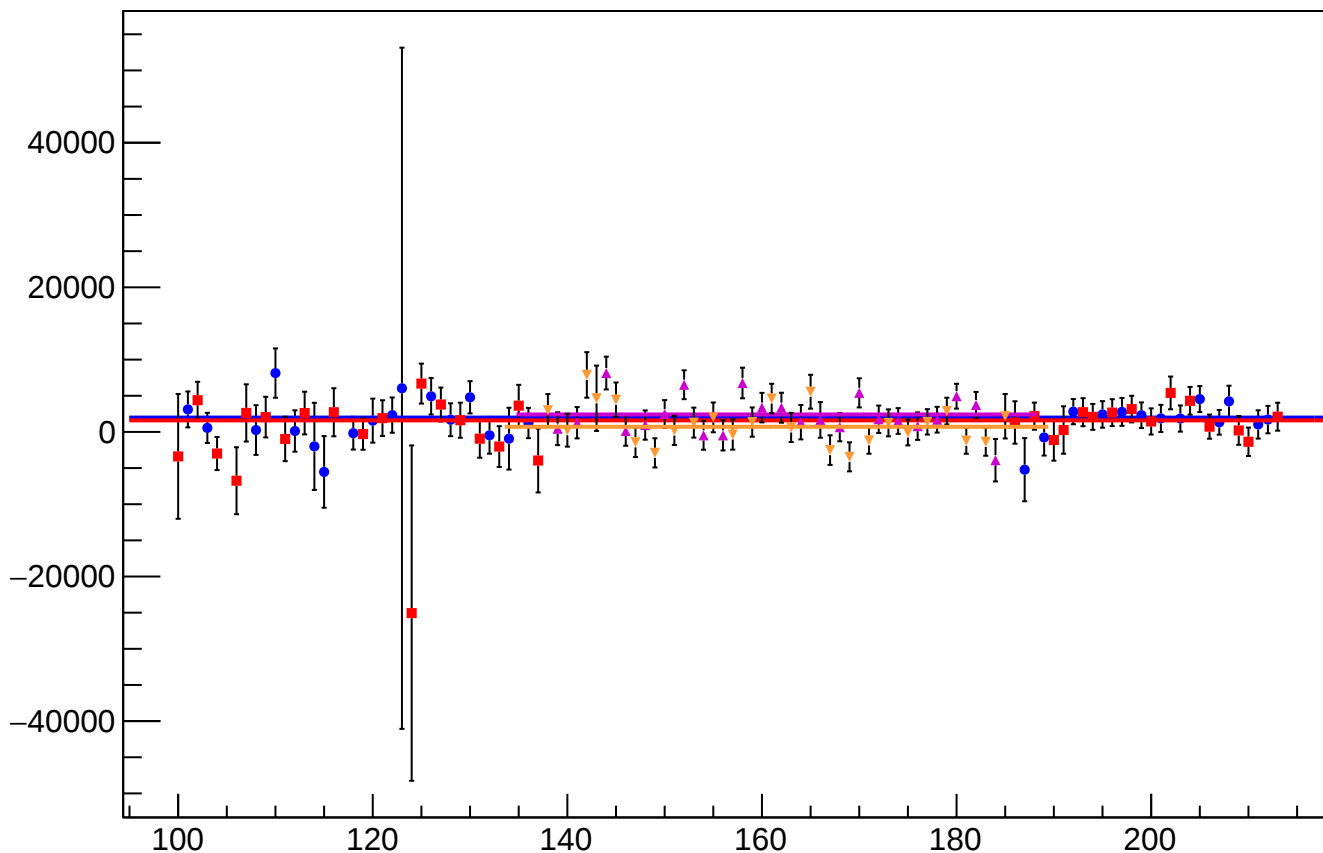
Right: 9948.795 $\pm$ 1.305 χ^2 /NDF: 7385852.5/63

In: 9946.244 $\pm$ 1.258 χ^2 /NDF: 3886670.0/52

Out: 9588.236 $\pm$ 1.191 χ^2 /NDF: 5588699.5/58

All: 9757.406 $\pm$ 0.865 χ^2 /NDF: 9518076.2/11

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1982.198 $\pm$ 421.363 χ^2 /NDF: 20.7/29

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

Right Out: 1597.301 $\pm$ 411.912 χ^2 /NDF: 31.4/33

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

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

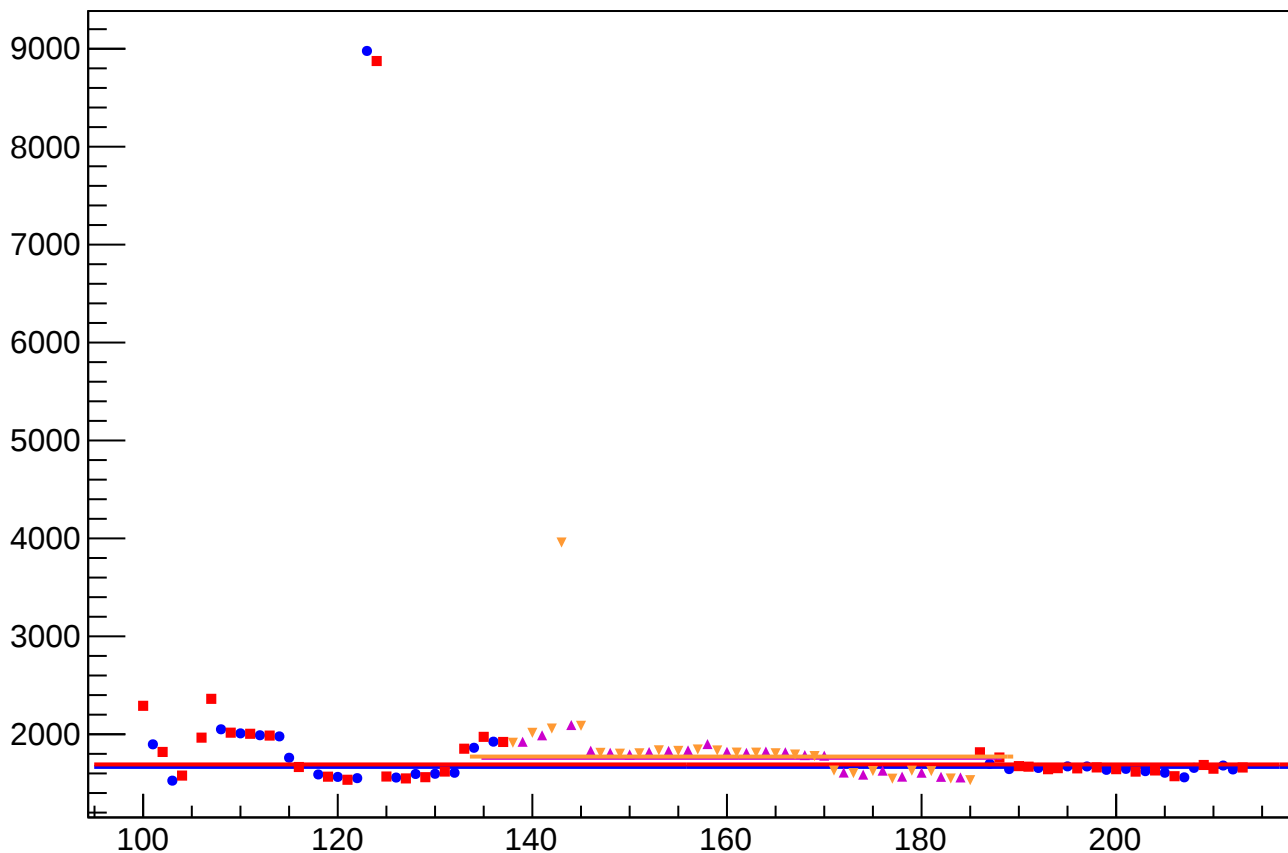
Right: 1785.385 $\pm$ 294.550 χ^2 /NDF: 52.5/63

In: 2197.394 $\pm$ 298.691 χ^2 /NDF:55.2/52

Out: 1159.361 $\pm$ 293.179 χ^2 /NDF:68.5/58

All: 1668.711 $\pm$ 209.231 χ^2 /NDF: 129.8/111

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1666.723+/-0.298 χ^2/NDF : 216213.6/29

Left Out: 1772.046+/-0.295 χ^2/NDF : 702472.4/24

Right Out: 1691.877+/-0.291 χ^2/NDF : 438150.0/33

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

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

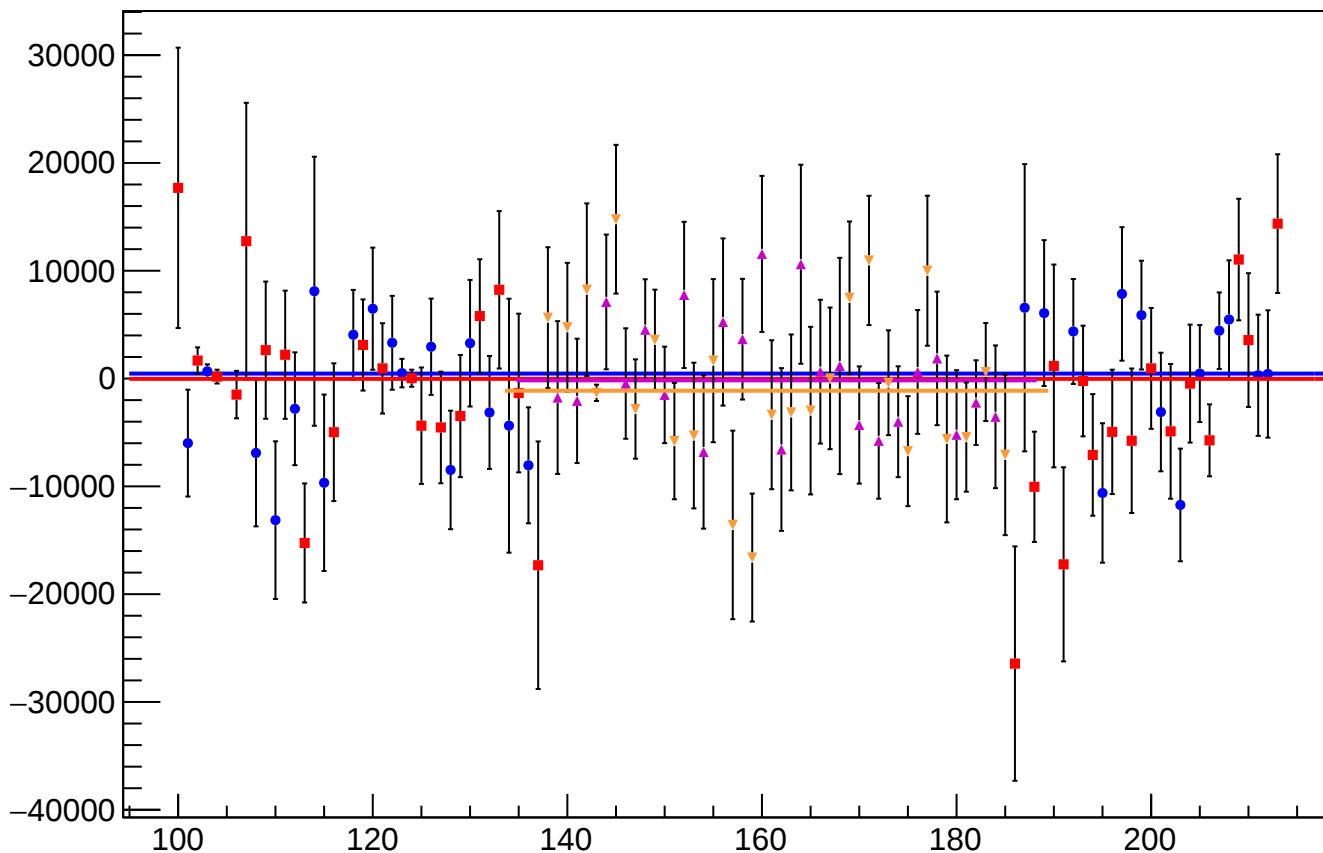
Right: 1679.607+/-0.208 χ^2/NDF : 658013.9/63

In: 1712.930+/-0.211 χ^2/NDF : 479446.8/52

Out: 1731.365+/-0.207 χ^2/NDF : 1178064.8/58

All: 1722.327+/-0.148 χ^2/NDF : 1661395.4/11

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 460.107 $\pm$ 508.205 χ^2 /NDF: 32.4/29

Left Out: -1129.807 $\pm$ 647.600 χ^2 /NDF:31.5/24

Right Out: -26.592 $\pm$ 416.258 χ^2 /NDF: 50.2/33

Left In: -168.182 $\pm$ 1232.411 χ^2 /NDF:14.2/22

Left: -921.734 $\pm$ 573.272 χ^2 /NDF: 46.1/47

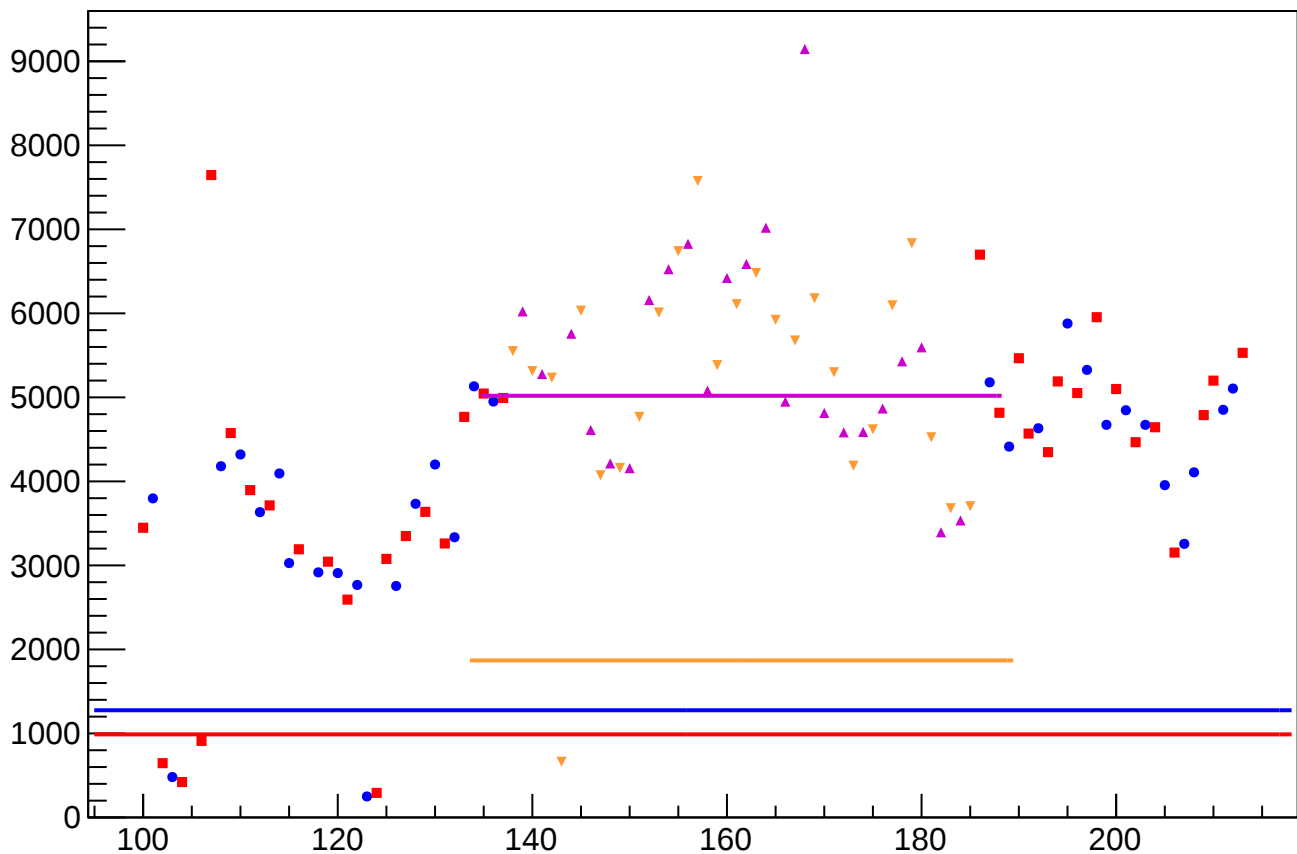
Right: 168.824 $\pm$ 322.025 χ^2 /NDF: 83.1/63

In: 368.796 $\pm$ 469.827 χ^2 /NDF:46.7/52

Out: -349.131 $\pm$ 350.161 χ^2 /NDF:83.8/58

All: -92.754 $\pm$ 280.761 χ^2 /NDF: 132.0/111

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1275.933+/-0.359

χ^2/NDF : 1885201.2/29

Left: 2550.597+/-0.405

χ^2/NDF : 31661059.7/47

Left Out: 1868.983+/-0.458

χ^2/NDF : 19852416.6/24

Right: 1104.136+/-0.228

χ^2/NDF : 41376761.2/63

Right Out: 988.880+/-0.294

χ^2/NDF : 22139677.9/33

In: 1819.941+/-0.332

χ^2/NDF : 36192983.9/52

Out: 1246.190+/-0.248

χ^2/NDF : 44606025.9/58

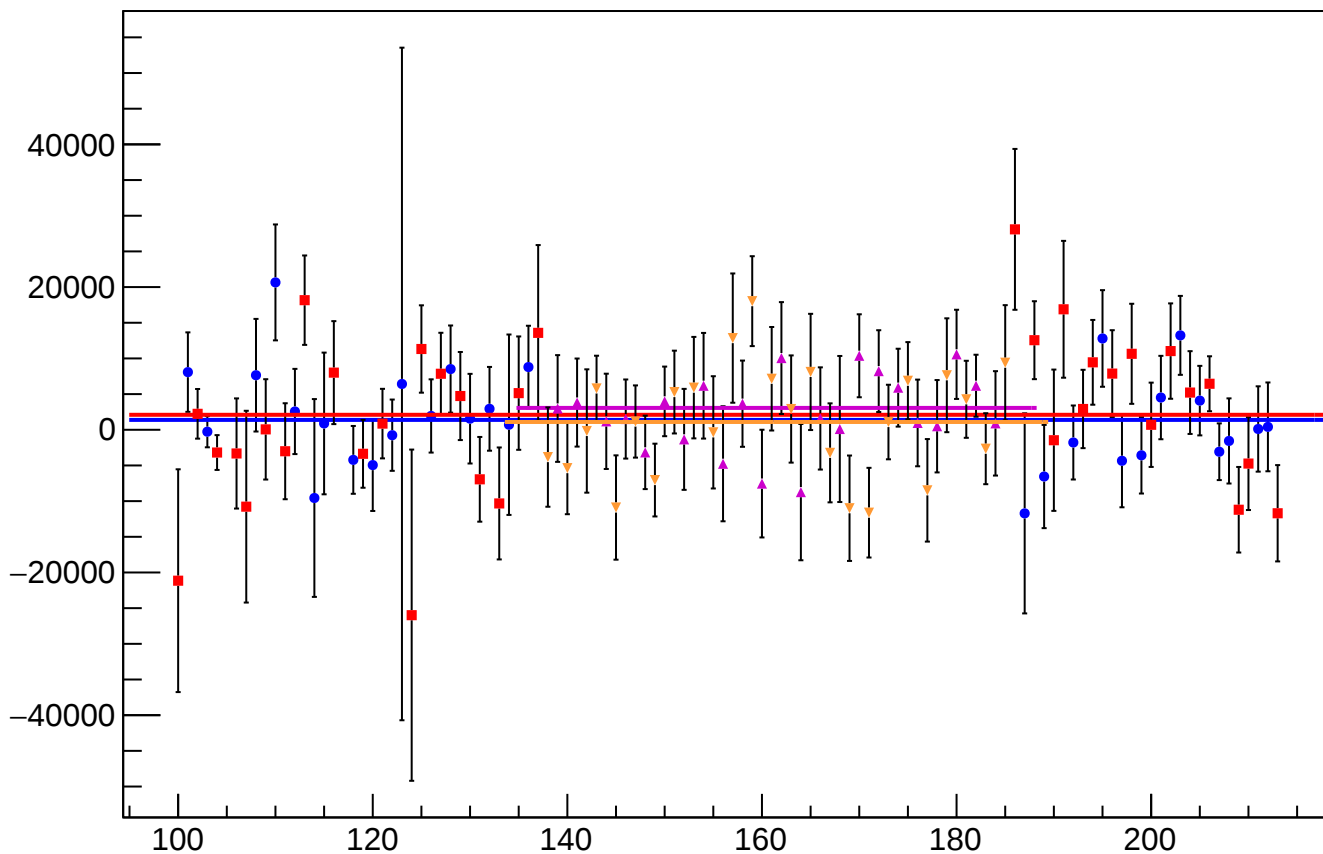
Left In: 5019.114+/-0.871

χ^2/NDF : 1569031.9/22

All: 1451.080+/-0.199

χ^2/NDF : 82716529.7/13

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1384.451 $\pm$ 1014.973 χ^2 /NDF: 28.3/29

Left Out: 1094.317 $\pm$ 1273.113 χ^2 /NDF:32.0/24

Right Out: 2100.107 $\pm$ 1002.365 χ^2 /NDF: 57.4/33

Left In: 3064.775 $\pm$ 1318.173 χ^2 /NDF:12.6/22

Left: 2045.291 $\pm$ 915.742 χ^2 /NDF: 45.7/47

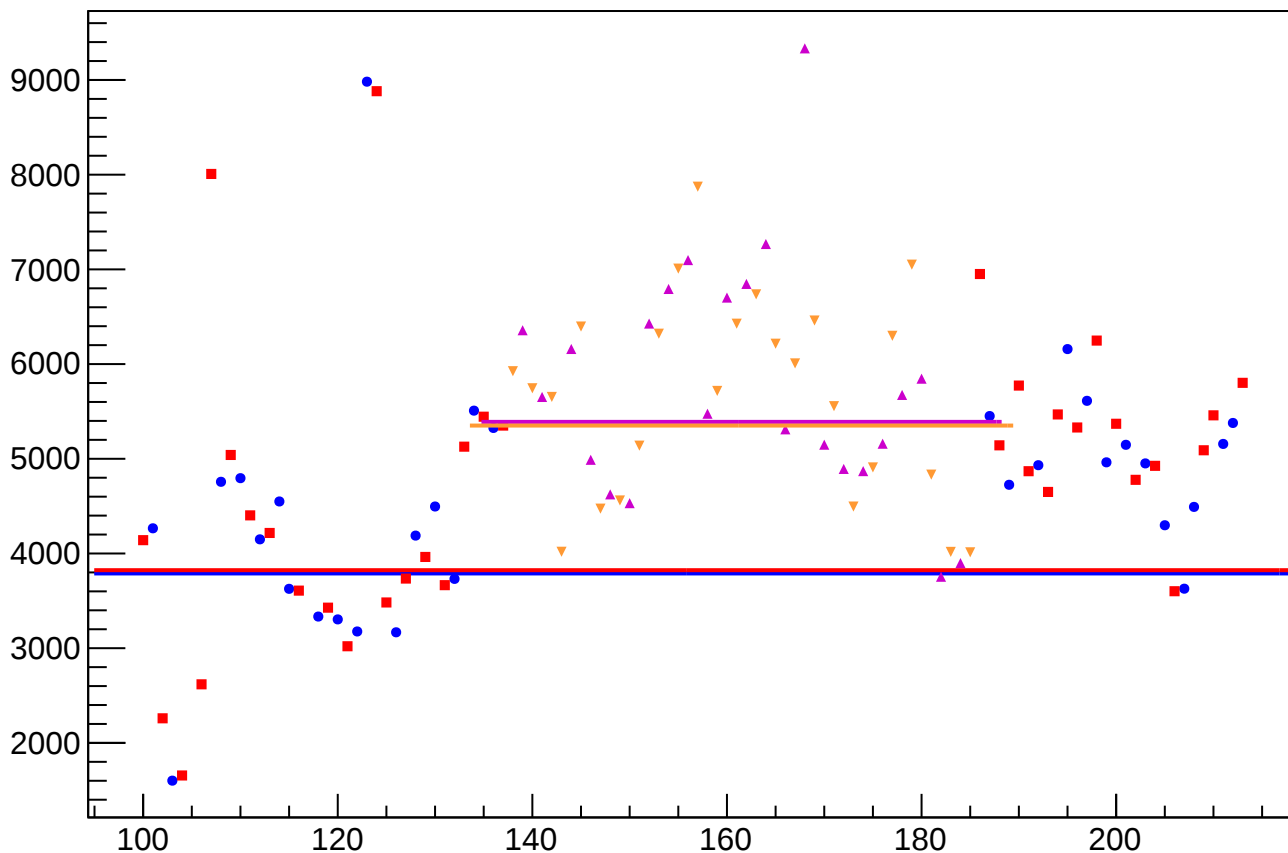
Right: 1746.751 $\pm$ 713.195 χ^2 /NDF: 85.9/63

In: 2009.875 $\pm$ 804.199 χ^2 /NDF:41.9/52

Out: 1715.215 $\pm$ 787.558 χ^2 /NDF:89.8/58

All: 1859.465 $\pm$ 562.679 χ^2 /NDF: 131.7/111

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3789.263+/-0.718

χ^2/NDF : 3553855.4/29

Left: 5369.587+/-0.648 χ^2/NDF : 2552263.0/47

Right: 3806.850+/-0.502 χ^2/NDF : 7834748.7/63

Left Out: 5350.804+/-0.900

χ^2/NDF : 1241497.9/24

In: 4384.960+/-0.569 χ^2/NDF : 6714665.1/52

Right Out: 3823.701+/-0.702

χ^2/NDF : 4279717.5/33

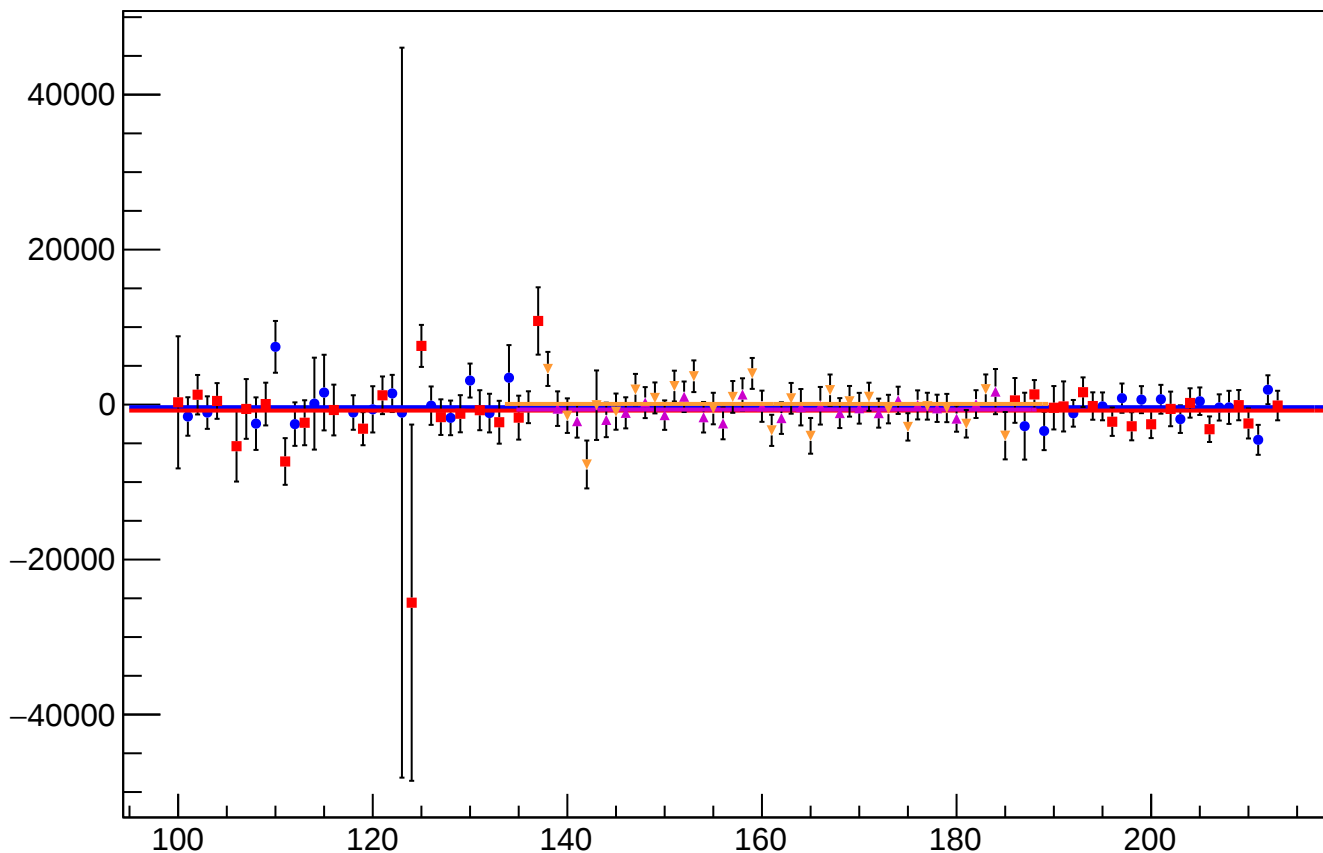
Out: 4401.671+/-0.554 χ^2/NDF : 7309727.4/58

Left In: 5389.724+/-0.932

χ^2/NDF : 1309863.0/22

All: 4393.536+/-0.397 χ^2/NDF : 14024835.7/100

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -332.926 ± 415.503 χ^2/NDF : 21.5/29

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -772.357 ± 405.923 χ^2/NDF : 36.6/33

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

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

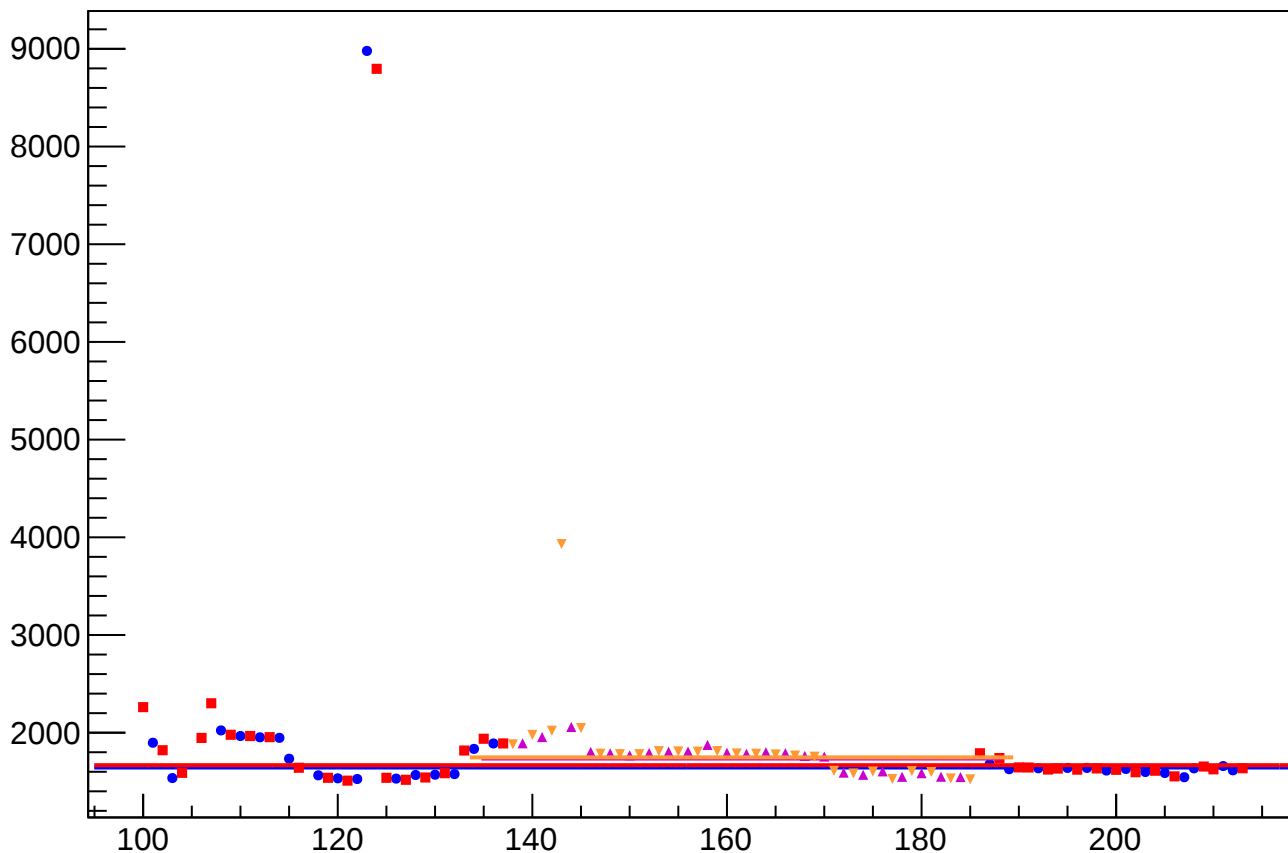
Right: -557.766 ± 290.359 χ^2/NDF : 58.8/63

In: -485.791 ± 294.559 χ^2/NDF : 28.0/52

Out: -348.961 ± 288.993 χ^2/NDF : 74.9/58

All: -416.071 ± 206.289 χ^2/NDF : 103.0/111

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1643.608 $\pm$ 0.294 χ^2 /NDF: 213568.5/29

Left Out: 1747.320 $\pm$ 0.291 χ^2 /NDF: 698192.3/24

Right Out: 1667.512 $\pm$ 0.287 χ^2 /NDF: 433910.5/33

Left In: 1735.540 $\pm$ 0.295 χ^2 /NDF: 206766.6/22

Left: 1741.517 $\pm$ 0.207 χ^2 /NDF: 905766.2/47

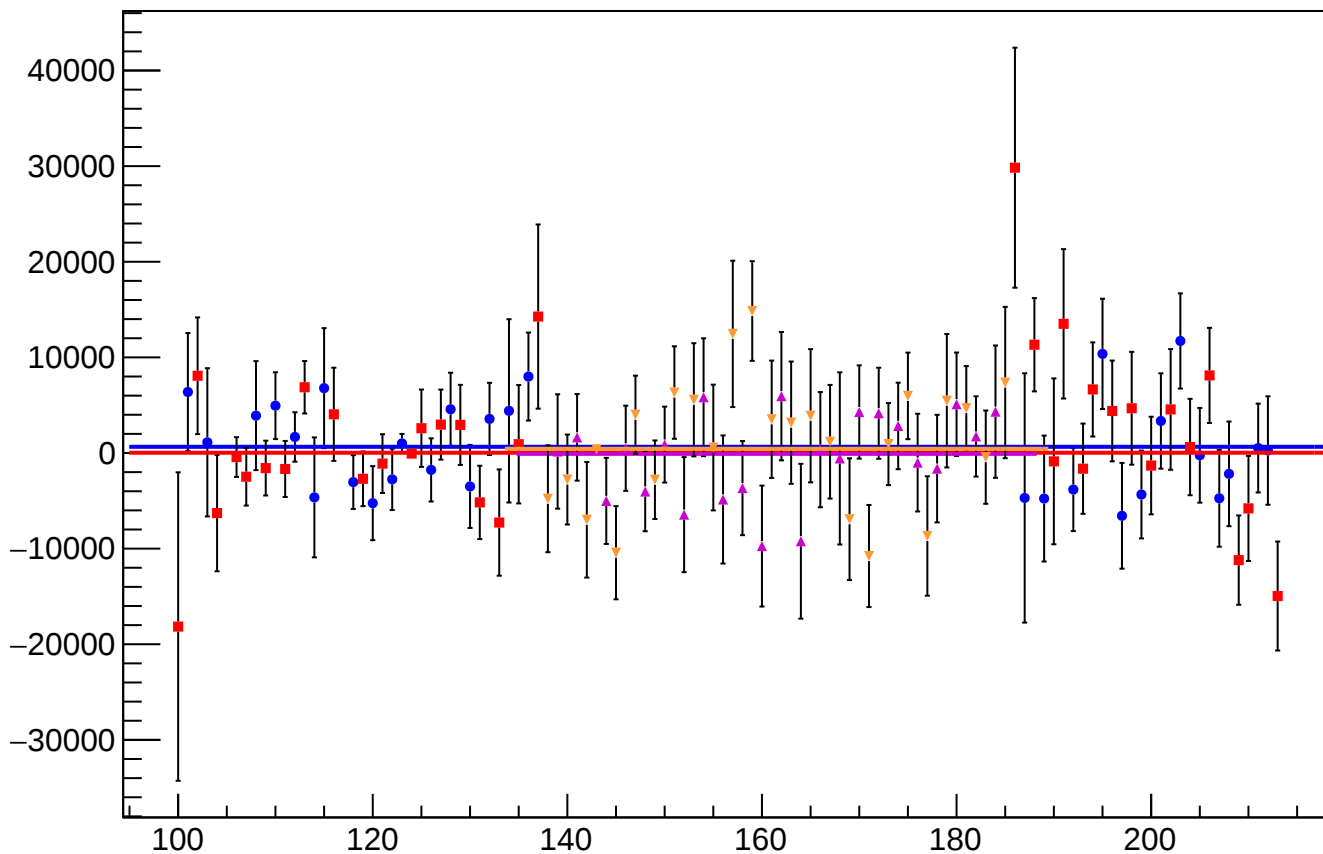
Right: 1655.858 $\pm$ 0.205 χ^2 /NDF: 650871.2/63

In: 1689.338 $\pm$ 0.208 χ^2 /NDF: 469037.2/52

Out: 1706.803 $\pm$ 0.204 χ^2 /NDF: 1170289.4/58

All: 1698.245 $\pm$ 0.146 χ^2 /NDF: 1642912.2/111

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 649.434 $\pm$ 636.956 χ^2 /NDF: 29.9/29

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

Right Out: 29.628 $\pm$ 346.794 χ^2 /NDF: 55.1/33

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

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

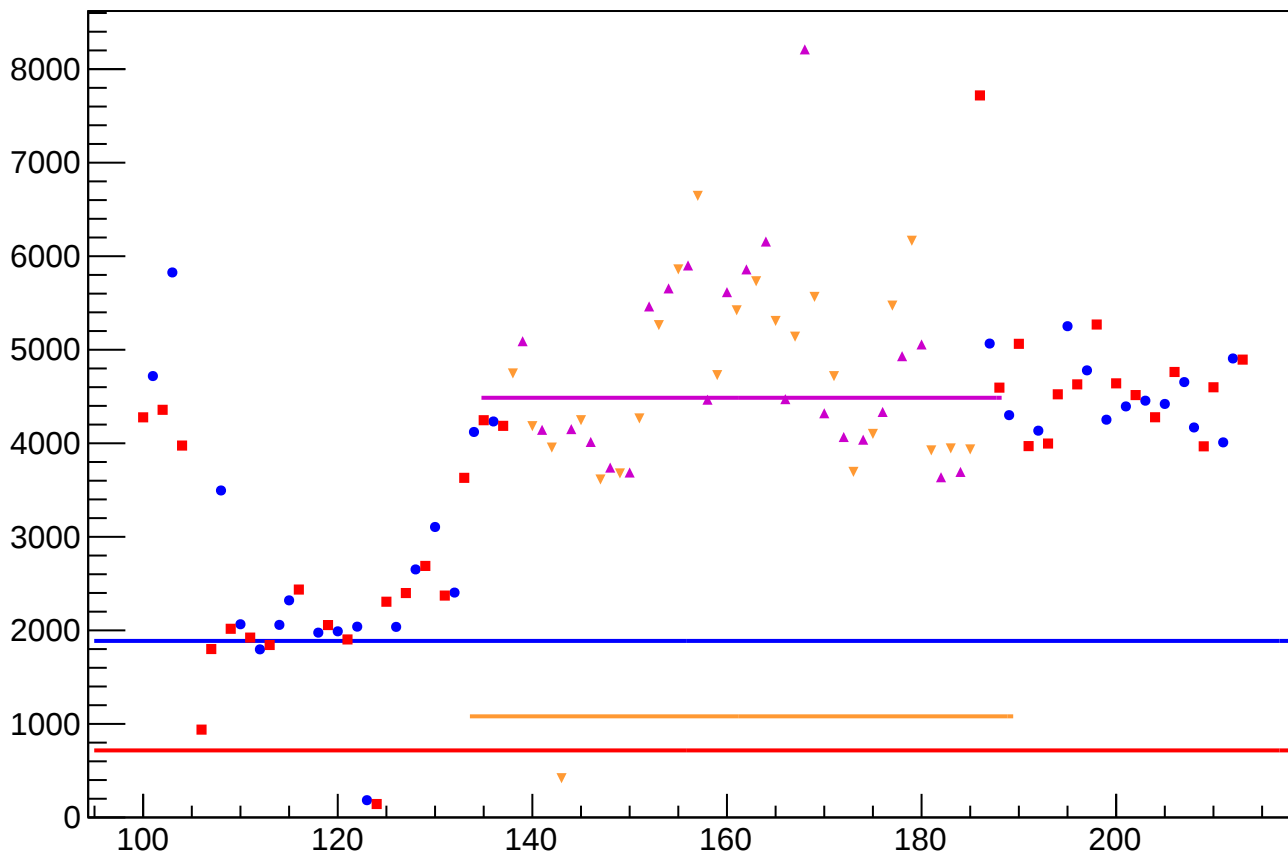
Right: 171.348 $\pm$ 304.577 χ^2 /NDF: 85.7/63

In: 462.825 $\pm$ 550.561 χ^2 /NDF:43.7/52

Out: 187.563 $\pm$ 272.445 χ^2 /NDF:89.5/58

All: 241.709 $\pm$ 244.183 χ^2 /NDF: 133.4/111

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1887.312 $\pm$ 0.450

χ^2/NDF : 14085131.9/29

Left: 1555.179 $\pm$ 0.289

χ^2/NDF : 42294704.7/47

Left Out: 1081.004 $\pm$ 0.311

χ^2/NDF : 24456244.2/24

Right: 984.379 $\pm$ 0.215

χ^2/NDF : 44753322.6/63

Right Out: 716.720 $\pm$ 0.245

χ^2/NDF : 25457778.5/33

In: 2544.606 $\pm$ 0.389

χ^2/NDF : 23688838.1/52

Out: 856.174 $\pm$ 0.193

χ^2/NDF : 50758828.6/58

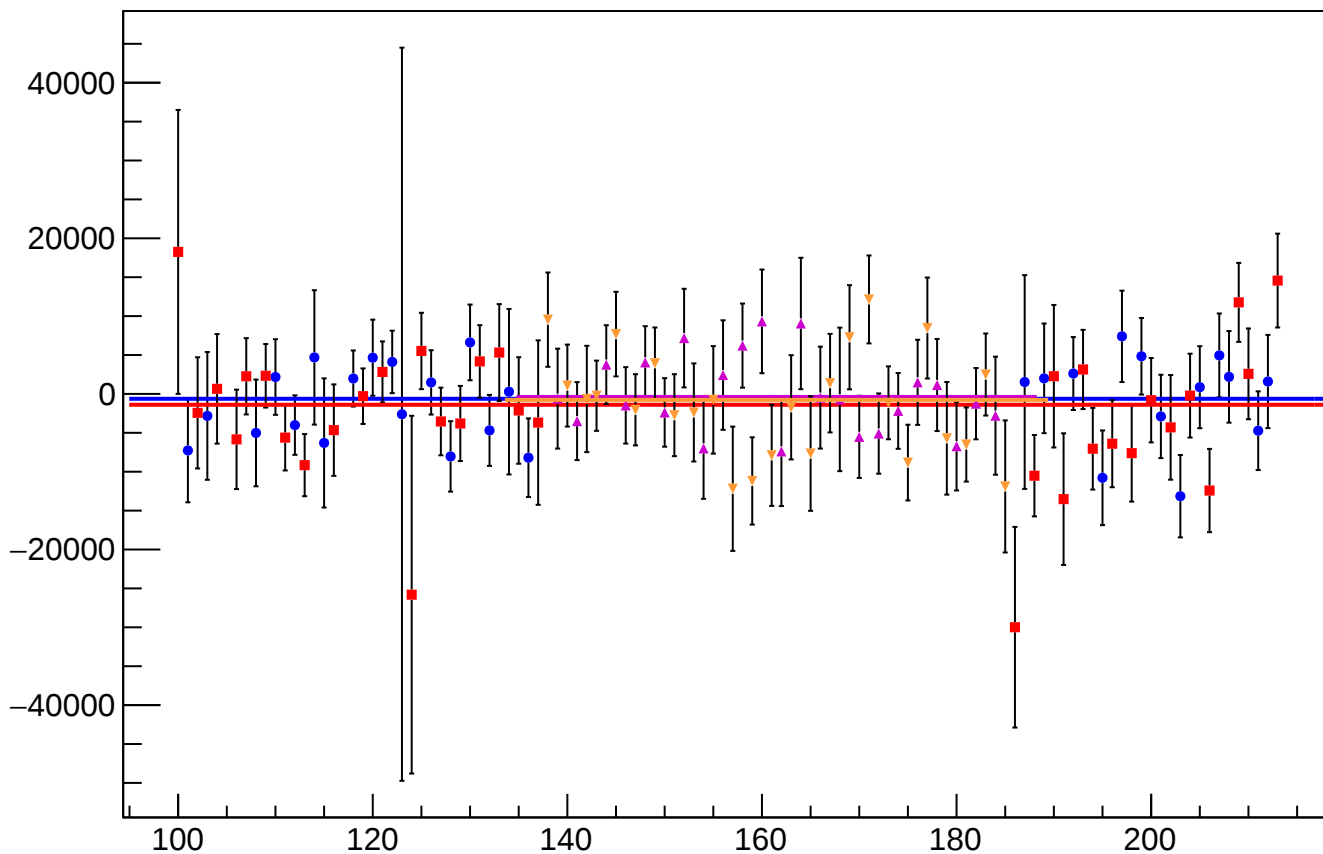
Left In: 4486.570 $\pm$ 0.774

χ^2/NDF : 1181598.1/22

All: 1188.301 $\pm$ 0.173

χ^2/NDF : 89557523.0/13

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -626.802 $\pm$ 985.594 χ^2 /NDF: 29.2/29

Left Out: -766.008 $\pm$ 1147.372 χ^2 /NDF:29.9/24

Right Out: -1392.943 $\pm$ 943.463 χ^2 /NDF: 48.3/33

Left In: -388.944 $\pm$ 1186.300 χ^2 /NDF:14.2/22

Left: -583.764 $\pm$ 824.733 χ^2 /NDF: 44.2/47

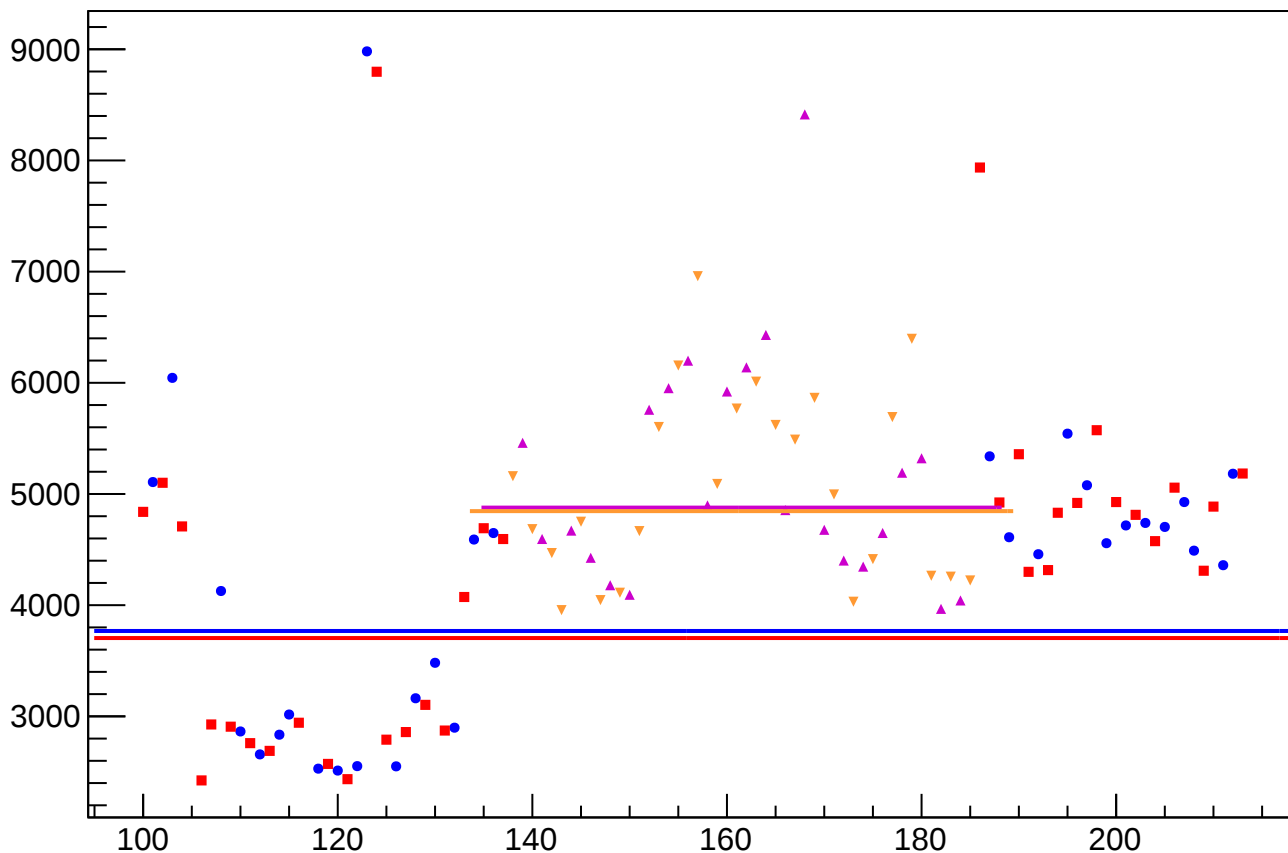
Right: -1026.597 $\pm$ 681.537 χ^2 /NDF: 77.8/63

In: -529.667 $\pm$ 758.093 χ^2 /NDF:43.4/52

Out: -1140.041 $\pm$ 728.734 χ^2 /NDF:78.4/58

All: -846.902 $\pm$ 525.365 χ^2 /NDF: 122.2/111

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3767.883+/-0.697

χ^2/NDF : 2329968.3/29

Left: 4861.089+/-0.583

χ^2/NDF : 1868533.9/47

Left Out: 4845.779+/-0.811

χ^2/NDF : 909173.9/24

Right: 3734.452+/-0.480

χ^2/NDF : 5160610.1/63

Right Out: 3704.298+/-0.662

χ^2/NDF : 2826265.1/33

In: 4221.000+/-0.536

χ^2/NDF : 4323738.6/52

Out: 4160.429+/-0.513

χ^2/NDF : 4923948.3/58

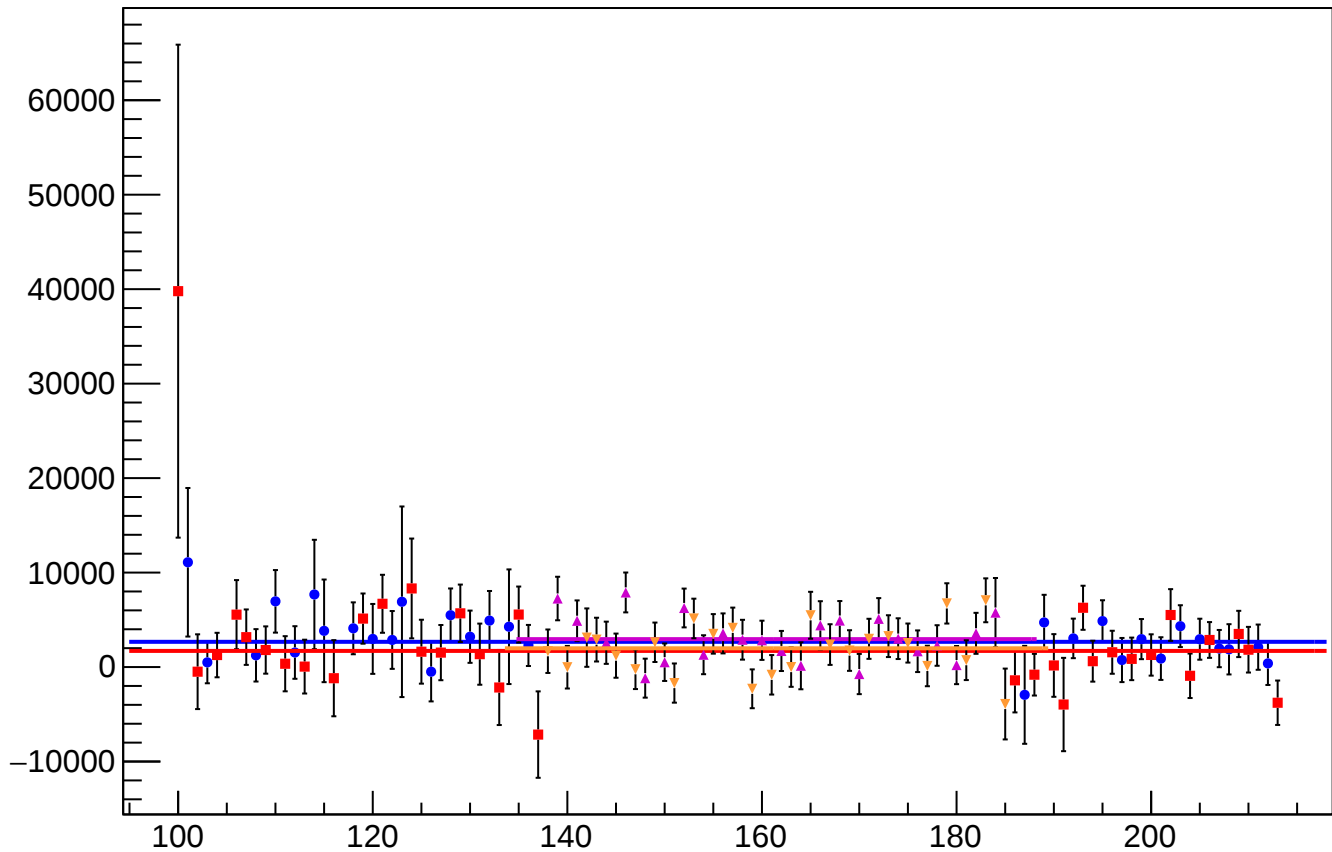
Left In: 4877.456+/-0.839

χ^2/NDF : 958623.2/22

All: 4189.376+/-0.371

χ^2/NDF : 9254352.8/11

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2671.236+/-498.466 χ^2/NDF : 14.0/29

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1708.868+/-479.557 χ^2/NDF : 36.4/33

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

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

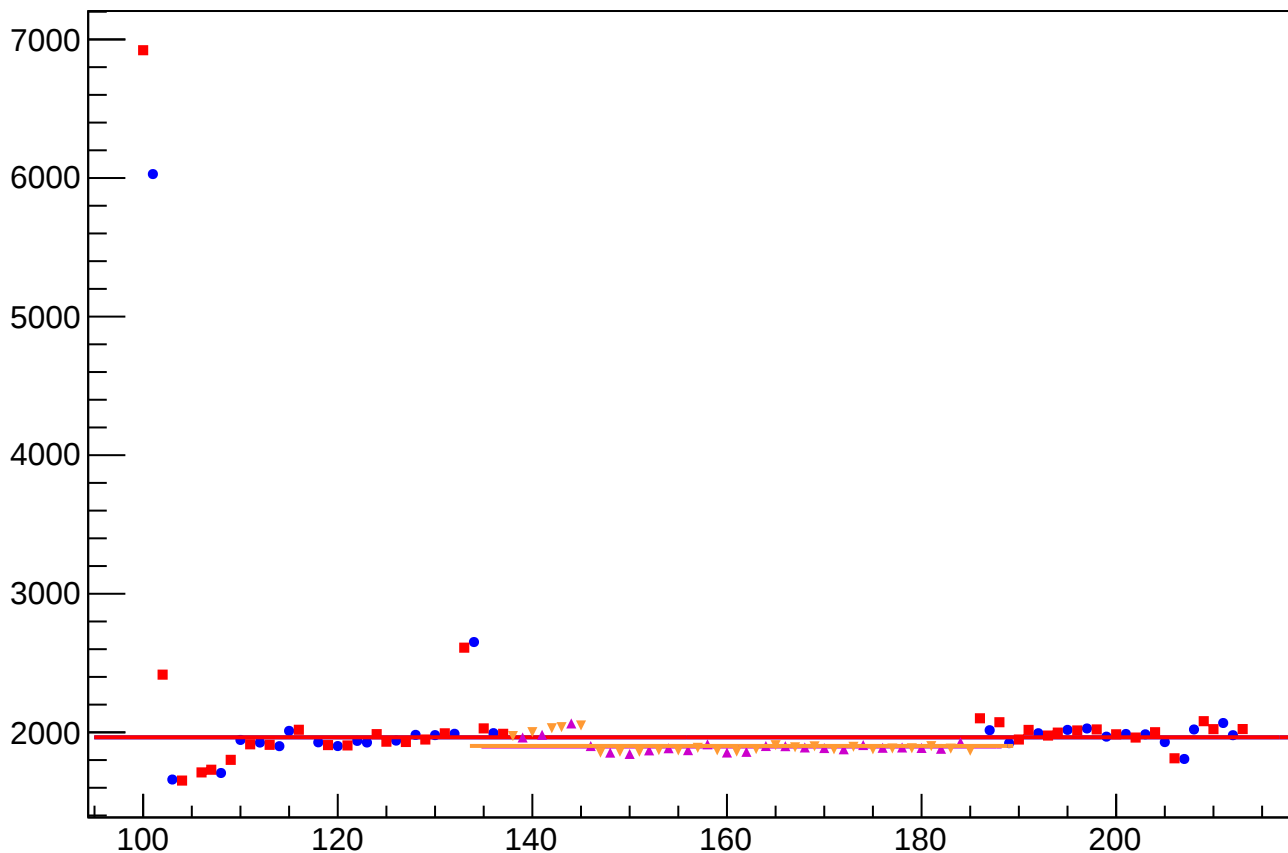
Right: 2171.452+/-345.590 χ^2/NDF : 52.3/63

In: 2826.658+/-335.871 χ^2/NDF : 42.6/52

Out: 1858.053+/-325.481 χ^2/NDF : 69.0/58

All: 2327.143+/-233.736 χ^2/NDF : 115.9/111

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1963.679+/-0.352 χ^2/NDF : 639772.9/29

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1964.394+/-0.339 χ^2/NDF : 255016.2/33

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

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

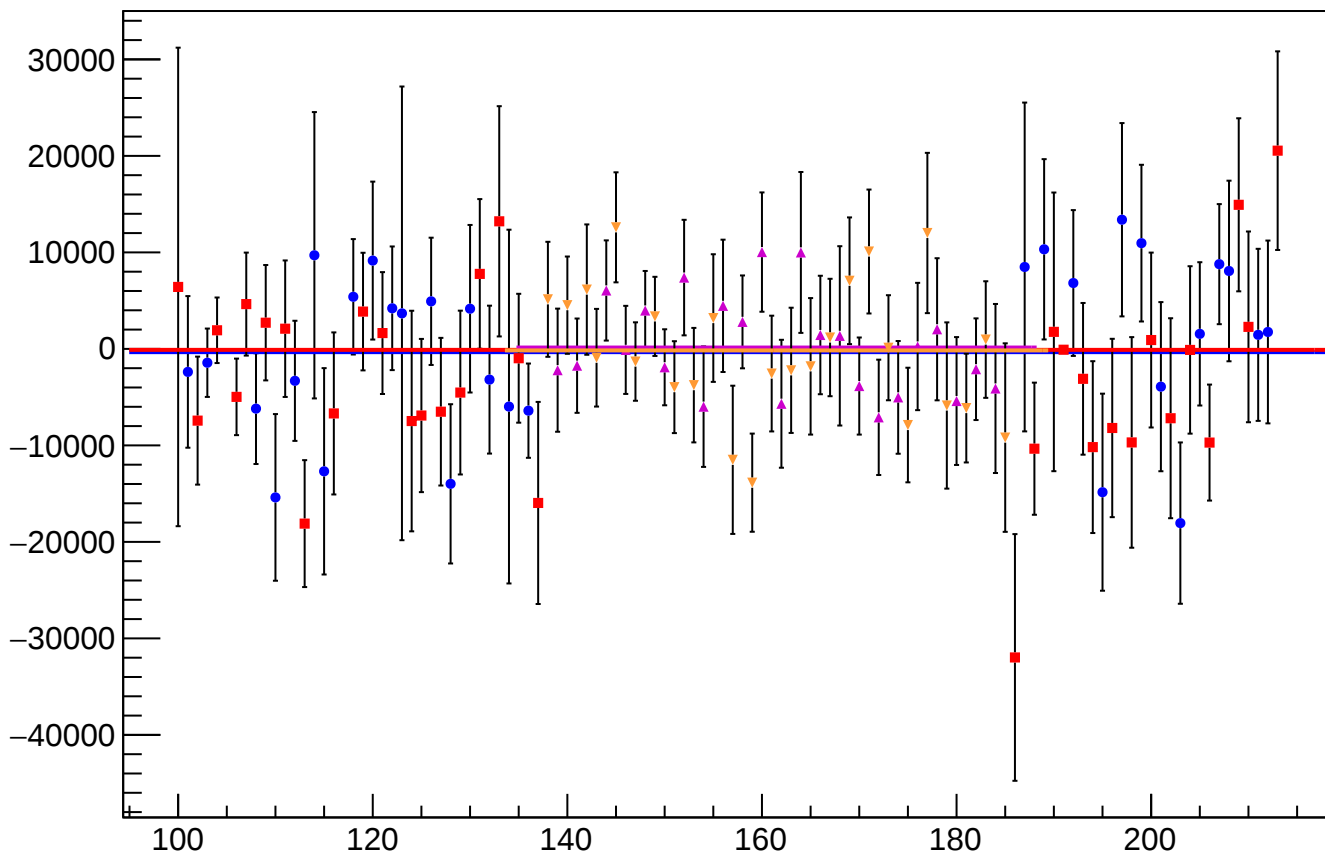
Right: 1964.051+/-0.244 χ^2/NDF : 894791.2/63

In: 1927.522+/-0.237 χ^2/NDF : 680226.5/52

Out: 1930.710+/-0.230 χ^2/NDF : 303810.7/58

All: 1929.167+/-0.165 χ^2/NDF : 984130.2/111

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -336.960+/-1368.035 χ^2/NDF : 30.5/29

Left Out: -157.539+/-1165.844 χ^2/NDF : 29.5/24

Right Out: -101.200+/-109.530 χ^2/NDF : 41.0/33

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

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

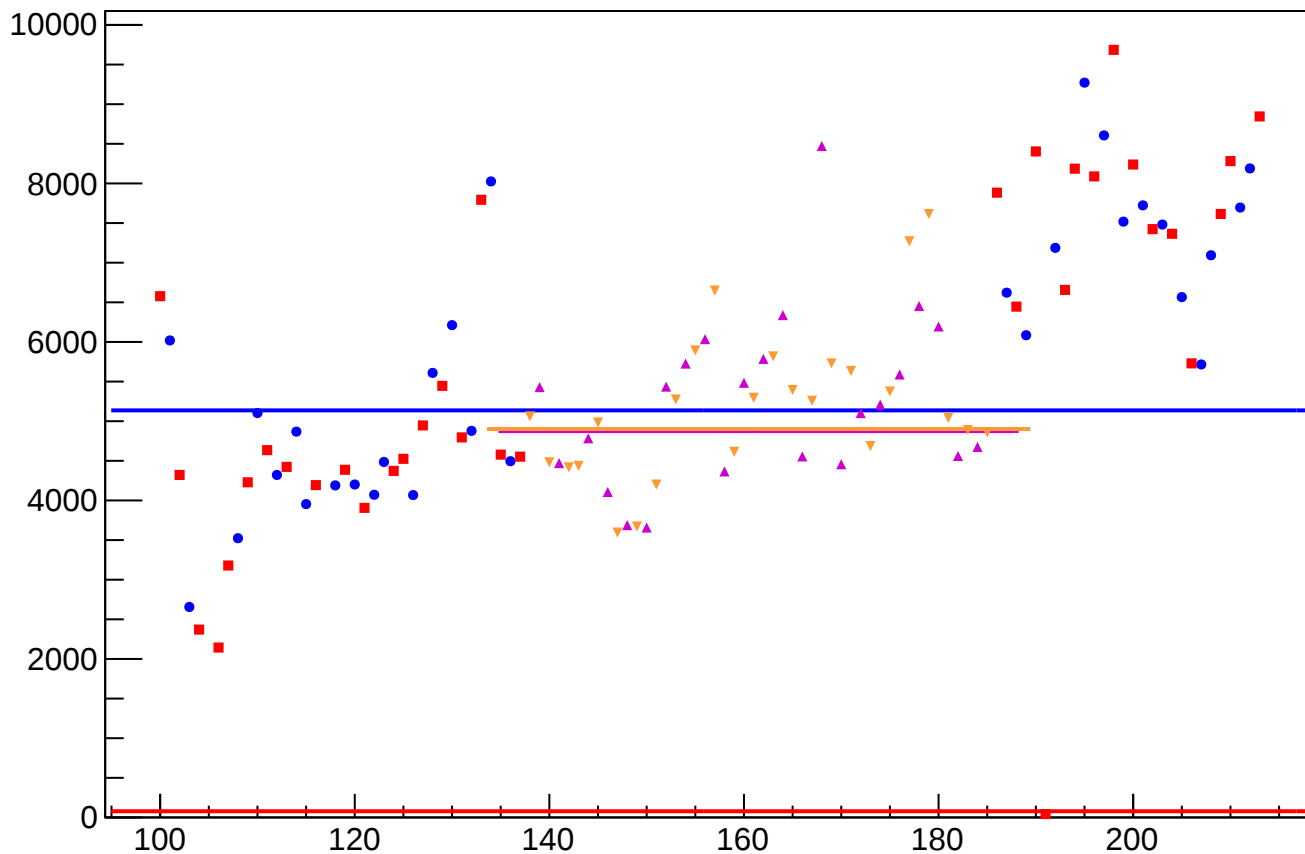
Right: -102.701+/-109.181 χ^2/NDF : 71.6/63

In: -66.188+/-898.231 χ^2/NDF : 45.3/52

Out: -101.693+/-109.050 χ^2/NDF : 70.5/58

All: -101.177+/-108.255 χ^2/NDF : 115.8/111

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 5136.547 $\pm$ 0.967 χ^2 /NDF: 3339320.8/29

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF: 1136916.0/24

Right Out: 78.500 $\pm$ 0.077 χ^2 /NDF: 32848518.0/33

Left In: 4875.112 $\pm$ 0.842 χ^2 /NDF: 1229198.0/22

Left: 4888.513 $\pm$ 0.589 χ^2 /NDF: 2366610.1/47

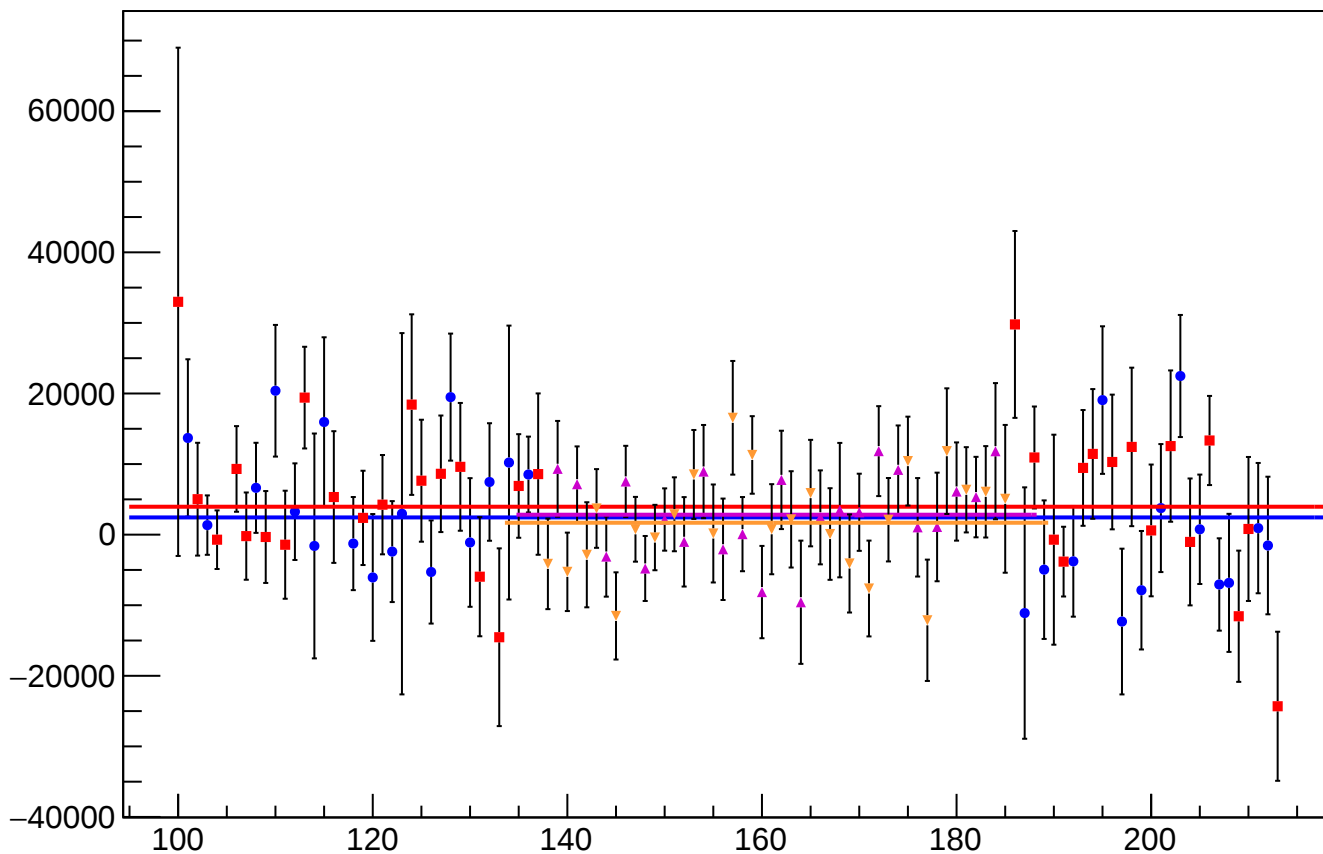
Right: 110.716 $\pm$ 0.077 χ^2 /NDF: 63353883.9/63

In: 4987.817 $\pm$ 0.635 χ^2 /NDF: 4610071.0/52

Out: 120.696 $\pm$ 0.077 χ^2 /NDF: 67912096.4/58

All: 191.392 $\pm$ 0.077 χ^2 /NDF: 130390893.6/100

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2440.594+/-1499.343 χ^2/NDF : 31.4/29

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

Right Out: 3956.705+/-1362.712 χ^2/NDF : 37.6/33

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

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

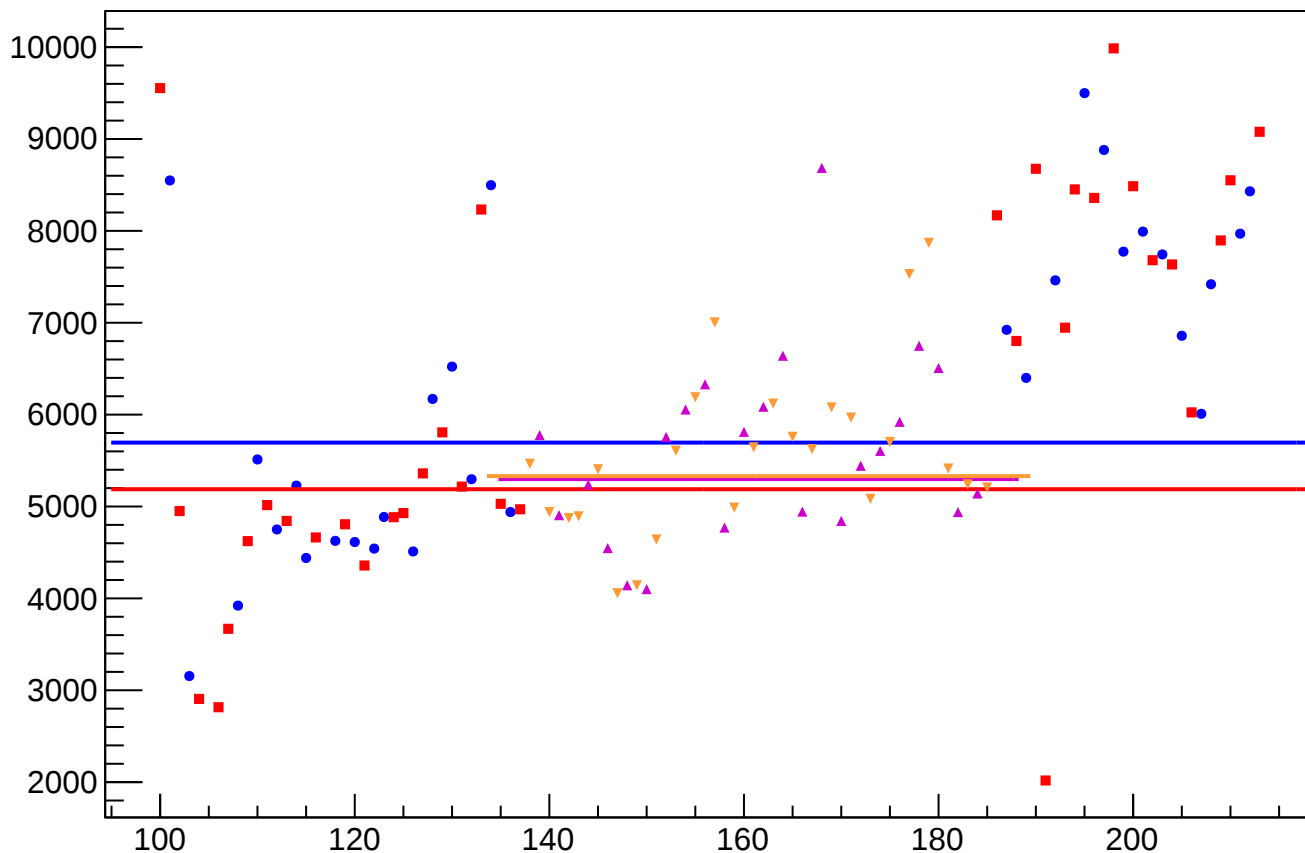
Right: 3270.862+/-1008.435 χ^2/NDF : 69.5/63

In: 2661.187+/-977.186 χ^2/NDF : 49.4/52

Out: 2734.325+/-925.790 χ^2/NDF : 64.5/58

All: 2699.730+/-672.068 χ^2/NDF : 113.9/111

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5695.609+/-1.060

χ^2/NDF : 2702925.9/29

Left Out: 5330.725+/-0.892

χ^2/NDF : 868061.7/24

Right Out: 5188.254+/-0.960

χ^2/NDF : 4562966.8/33

Left In: 5298.329+/-0.911

χ^2/NDF : 956021.6/22

Left: 5314.867+/-0.637

χ^2/NDF : 1824728.8/47

Right: 5416.856+/-0.712

χ^2/NDF : 7391715.2/63

In: 5467.081+/-0.691

χ^2/NDF : 3739719.9/52

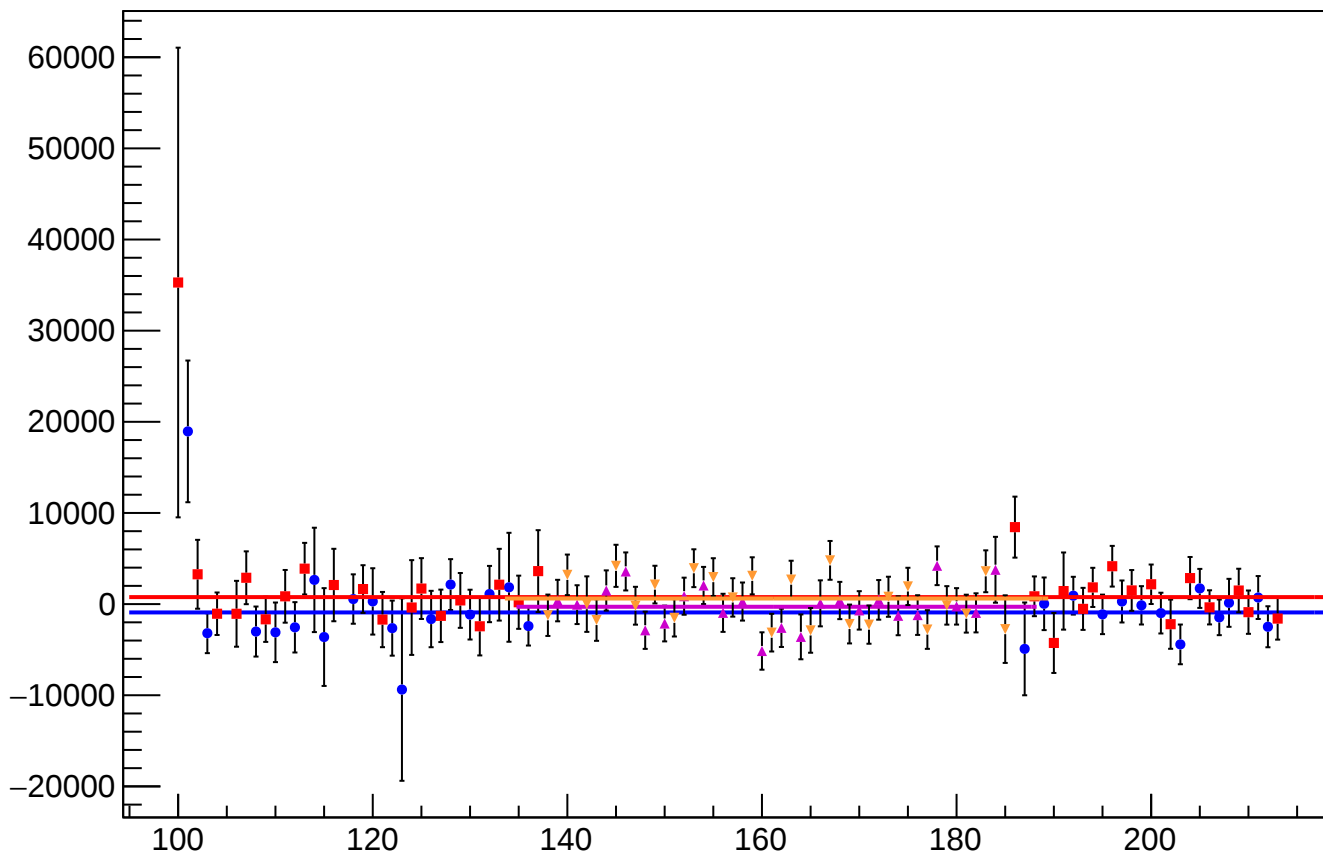
Out: 5264.711+/-0.654

χ^2/NDF : 5442845.6/58

All: 5360.266+/-0.475

χ^2/NDF : 9227840.1/11

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -914.493+/-492.072 χ^2/NDF : 20.7/29

Left Out: 612.314+/-438.264 χ^2/NDF : 32.7/24

Right Out: 766.910+/-472.534 χ^2/NDF : 23.9/33

Left In: -293.009+/-449.575 χ^2/NDF : 23.6/22

Left: 171.185+/-313.822 χ^2/NDF : 58.4/47

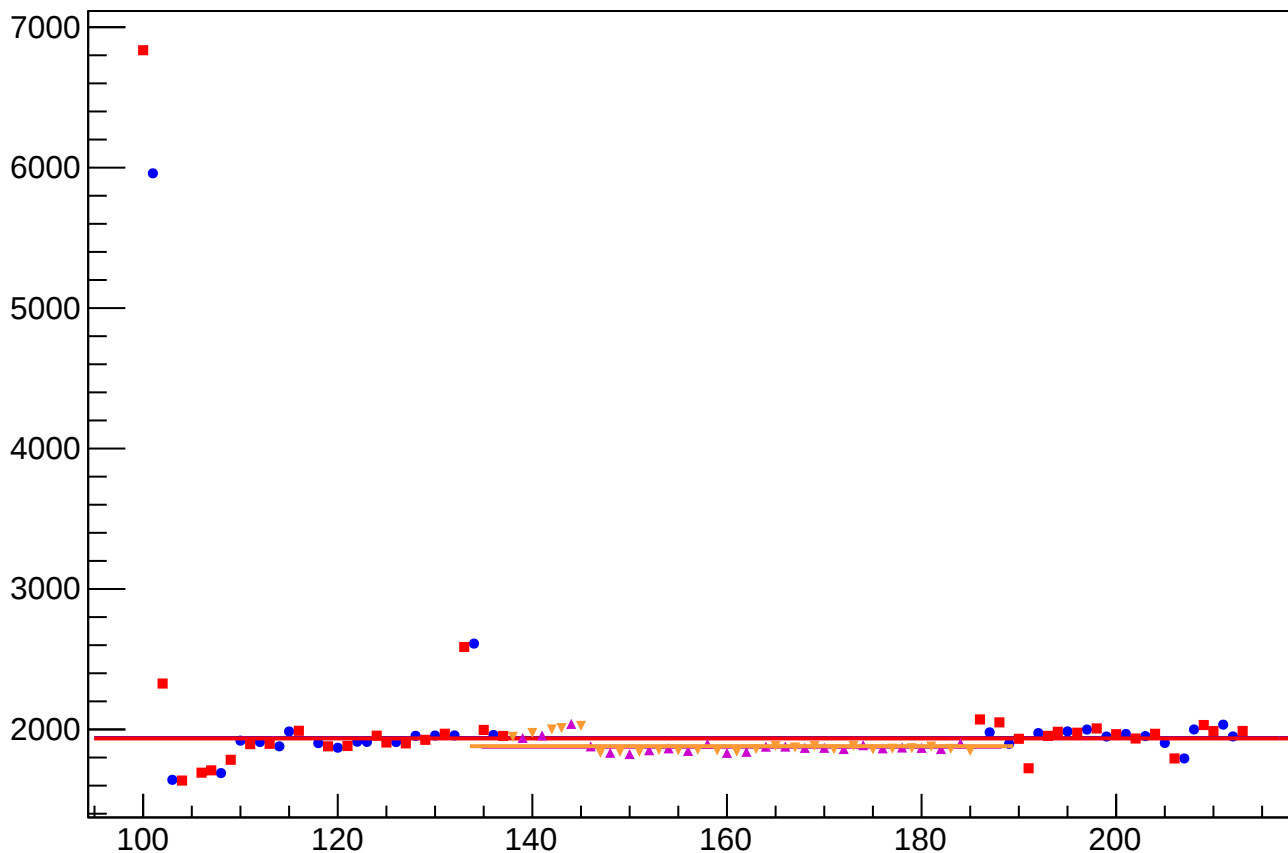
Right: -39.749+/-340.830 χ^2/NDF : 50.7/63

In: -575.760+/-331.907 χ^2/NDF : 45.2/52

Out: 683.803+/-321.332 χ^2/NDF : 56.7/58

All: 74.405+/-230.864 χ^2/NDF : 109.3/111

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1938.659 $\pm$ 0.348 χ^2 /NDF: 636297.4/29

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF: 28655.5/24

Right Out: 1936.199 $\pm$ 0.334 χ^2 /NDF: 250984.7/33

Left In: 1876.685 $\pm$ 0.318 χ^2 /NDF: 20499.7/22

Left: 1878.799 $\pm$ 0.222 χ^2 /NDF: 49241.5/47

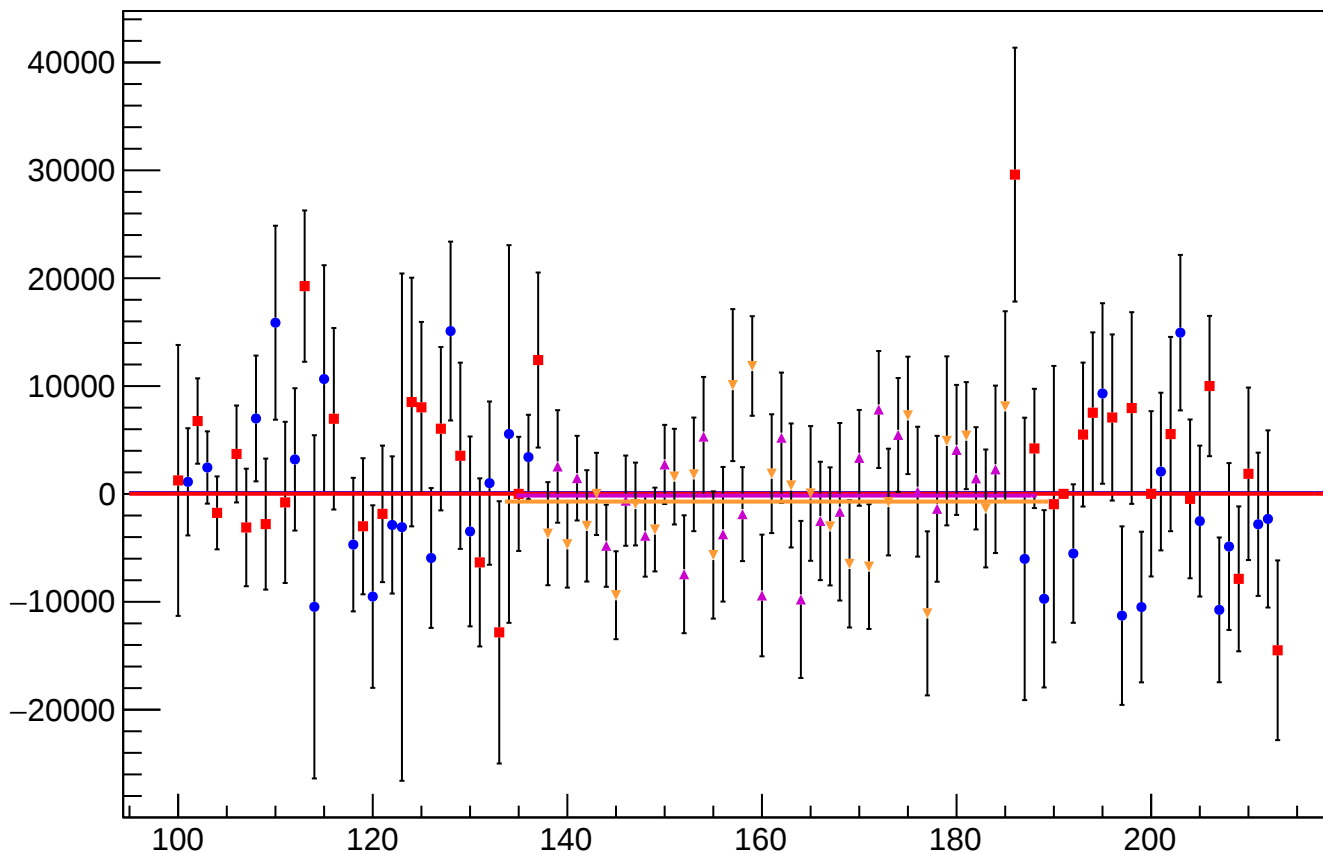
Right: 1937.378 $\pm$ 0.241 χ^2 /NDF: 887308.2/63

In: 1904.881 $\pm$ 0.235 χ^2 /NDF: 674088.4/52

Out: 1906.449 $\pm$ 0.227 χ^2 /NDF: 294428.6/58

All: 1905.691 $\pm$ 0.163 χ^2 /NDF: 968540.1/111

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 79.719+/-1249.921 χ^2/NDF : 29.5/29

Left Out: -707.785+/-1017.719 χ^2/NDF :27.1/24

Right Out: 21.960+/-85.780 χ^2/NDF : 36.9/33

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

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

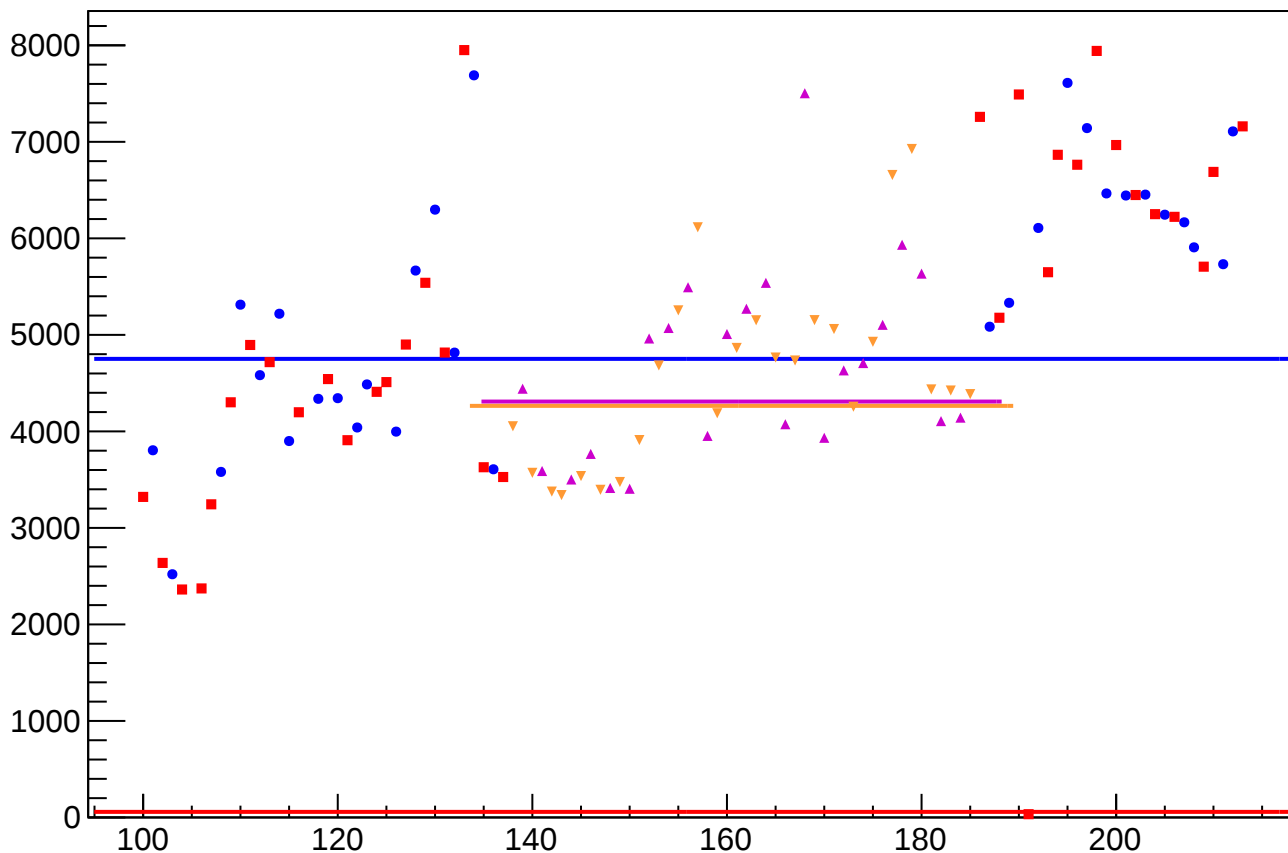
Right: 22.230+/-85.579 χ^2/NDF : 66.4/63

In: -54.861+/-805.606 χ^2/NDF :46.4/52

Out: 16.812+/-85.477 χ^2/NDF :64.5/58

All: 16.014+/-85.000 χ^2/NDF : 111.0/111

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4751.359+/-0.884 χ^2/NDF : 2716797.0/29

Left Out: 4264.433+/-0.720 χ^2/NDF : 1354900.8/24

Right Out: 57.843+/-0.061 χ^2/NDF : 33020920.4/33

Left In: 4309.034+/-0.745 χ^2/NDF : 1305133.3/22

Left: 4285.960+/-0.518 χ^2/NDF : 2661888.1/47

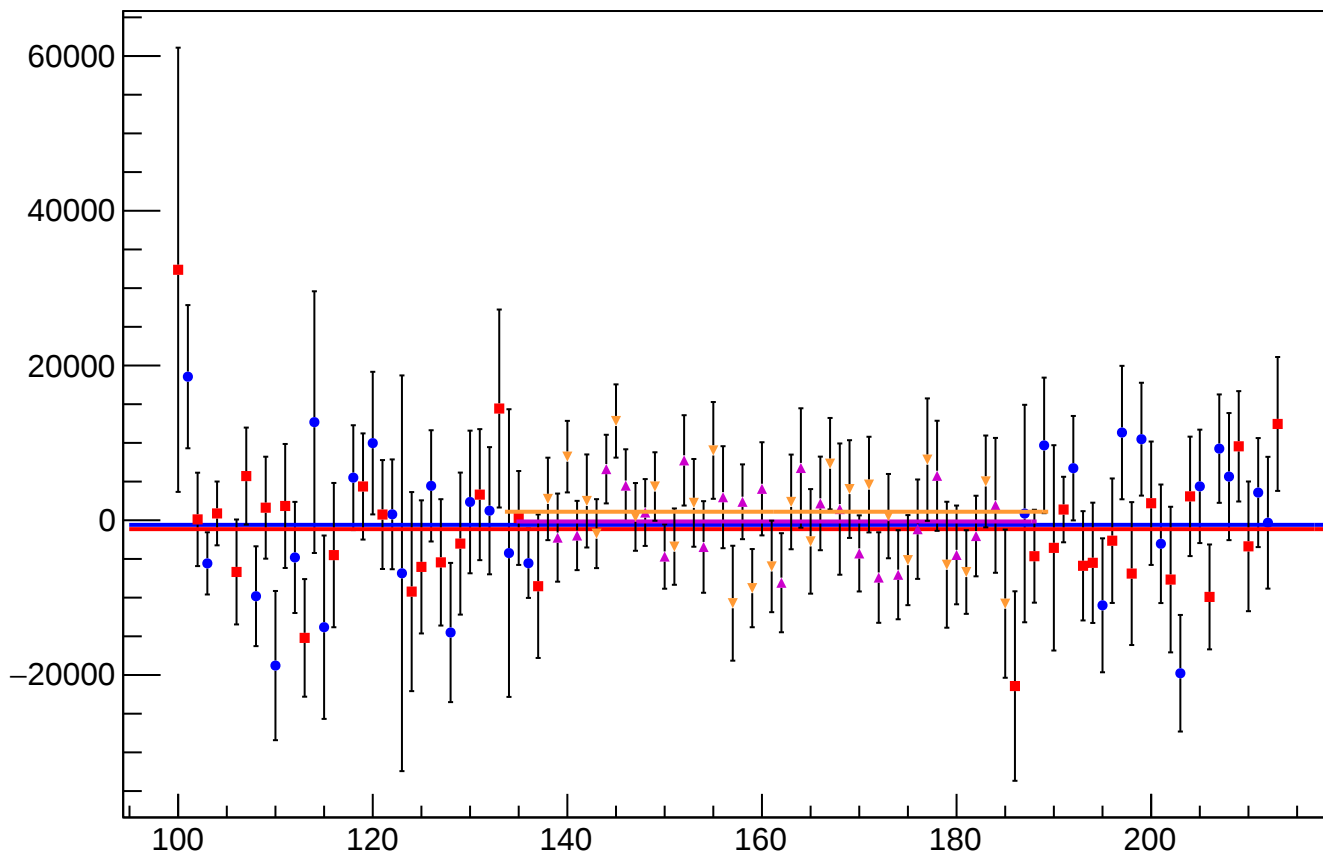
Right: 79.845+/-0.061 χ^2/NDF : 63806342.0/63

In: 4492.782+/-0.570 χ^2/NDF : 4168349.2/52

Out: 87.517+/-0.060 χ^2/NDF : 68303980.5/58

All: 136.558+/-0.060 χ^2/NDF : 131610327.9/131

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -593.013 ± 1397.334 $\chi^2/\text{NDF}: 38.3/29$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -1147.890 ± 1268.698 $\chi^2/\text{NDF}: 23.7/33$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

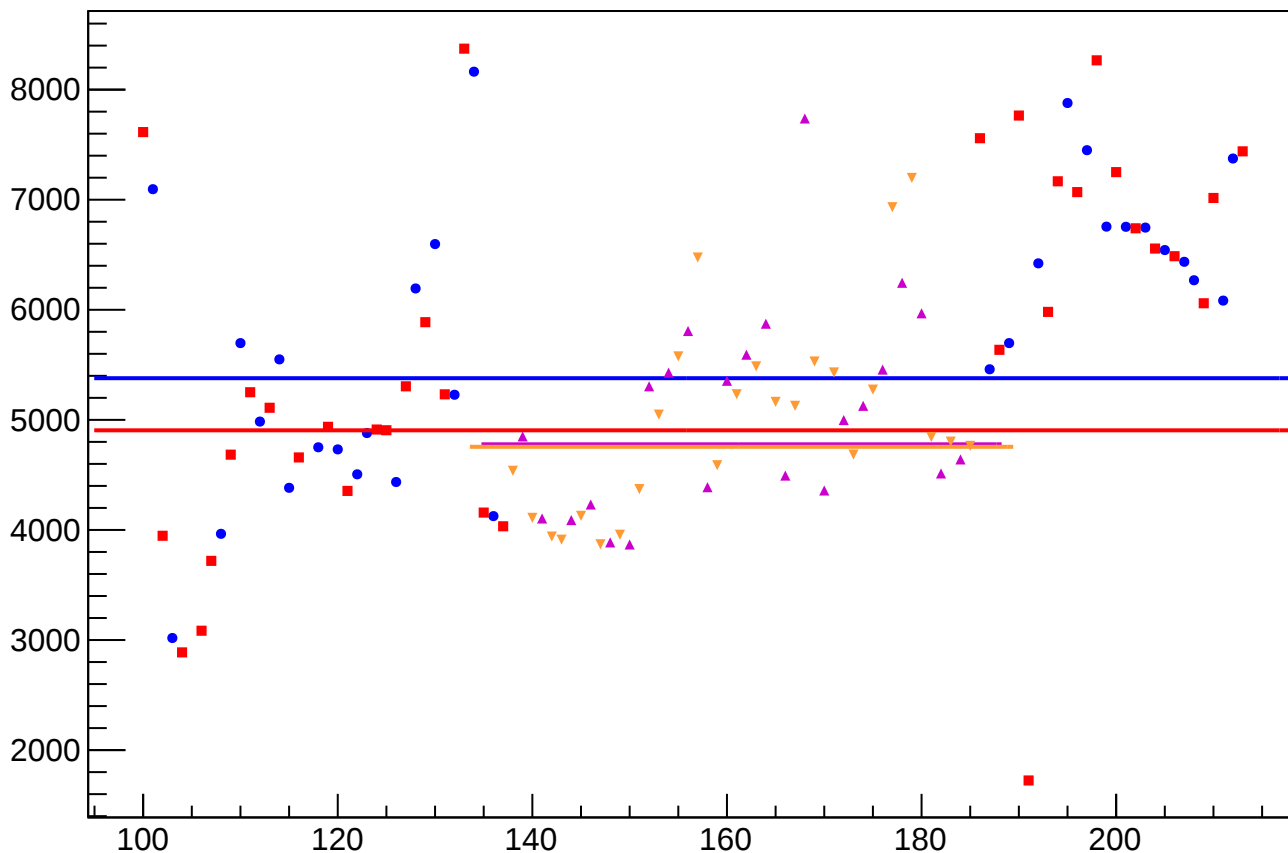
Right: -897.162 ± 939.297 $\chi^2/\text{NDF}: 62.1/63$

In: -336.157 ± 893.217 $\chi^2/\text{NDF}: 53.9/52$

Out: 110.111 ± 842.431 $\chi^2/\text{NDF}: 54.0/58$

All: -99.976 ± 612.857 $\chi^2/\text{NDF}: 108.0/111$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5378.570 ± 0.988 χ^2/NDF : 2005847.0/29

Left Out: 4755.383 ± 0.797 χ^2/NDF : 953328.0/24

Right Out: 4905.033 ± 0.894 χ^2/NDF : 3806693.7/33

Left In: 4777.831 ± 0.821 χ^2/NDF : 950291.2/22

Left: 4766.265 ± 0.572 χ^2/NDF : 1904004.1/47

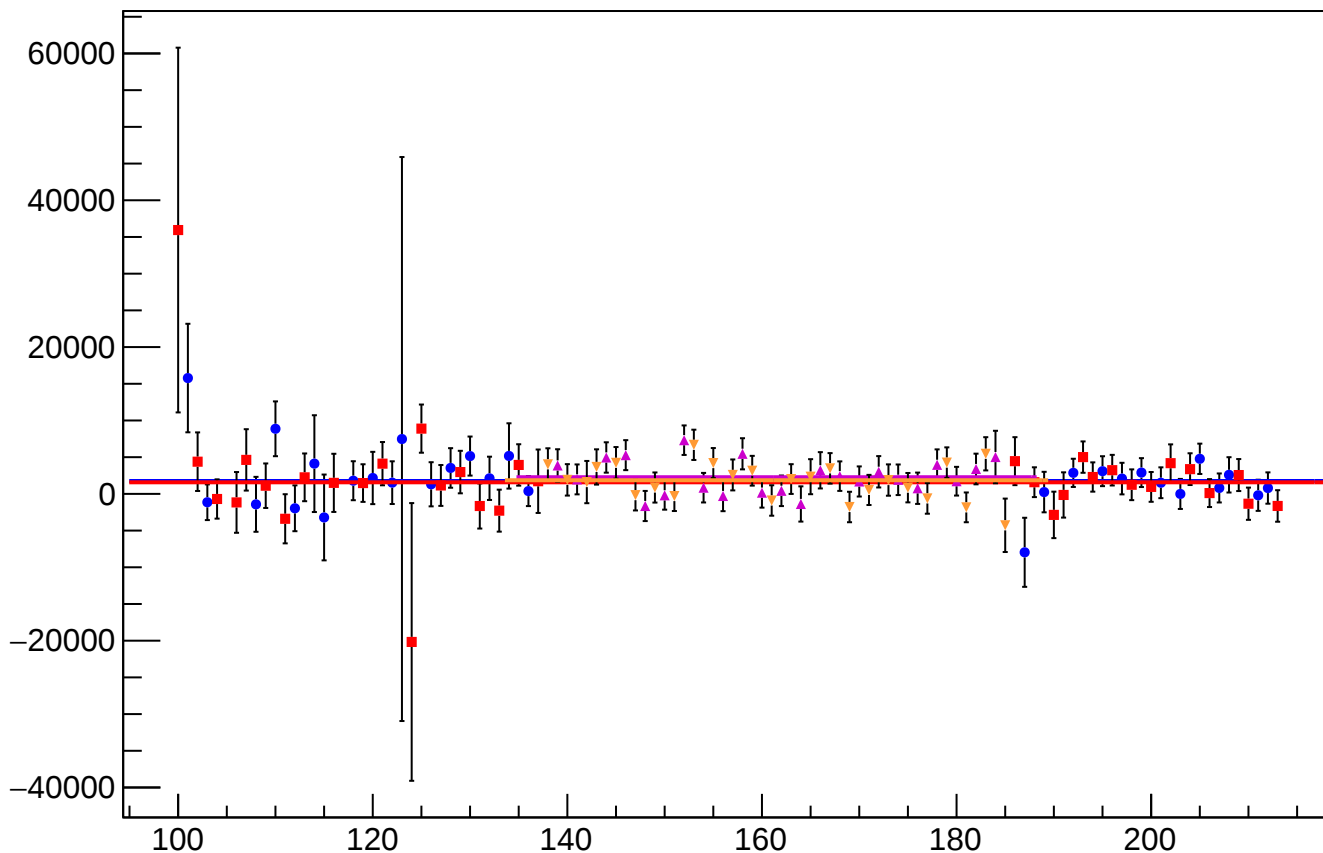
Right: 5118.270 ± 0.663 χ^2/NDF : 5938798.1/63

In: 5023.302 ± 0.632 χ^2/NDF : 3174749.1/52

Out: 4821.598 ± 0.595 χ^2/NDF : 4775634.2/58

All: 4916.413 ± 0.433 χ^2/NDF : 8004428.9/11

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1754.936 $\pm$ 479.302 χ^2 /NDF: 24.8/29

Left Out: 1856.570 $\pm$ 430.977 χ^2 /NDF:30.0/24

Right Out: 1577.594 $\pm$ 462.026 χ^2 /NDF: 30.4/33

Left In: 2268.464 $\pm$ 441.710 χ^2 /NDF:26.9/22

Left: 2057.452 $\pm$ 308.471 χ^2 /NDF: 57.3/47

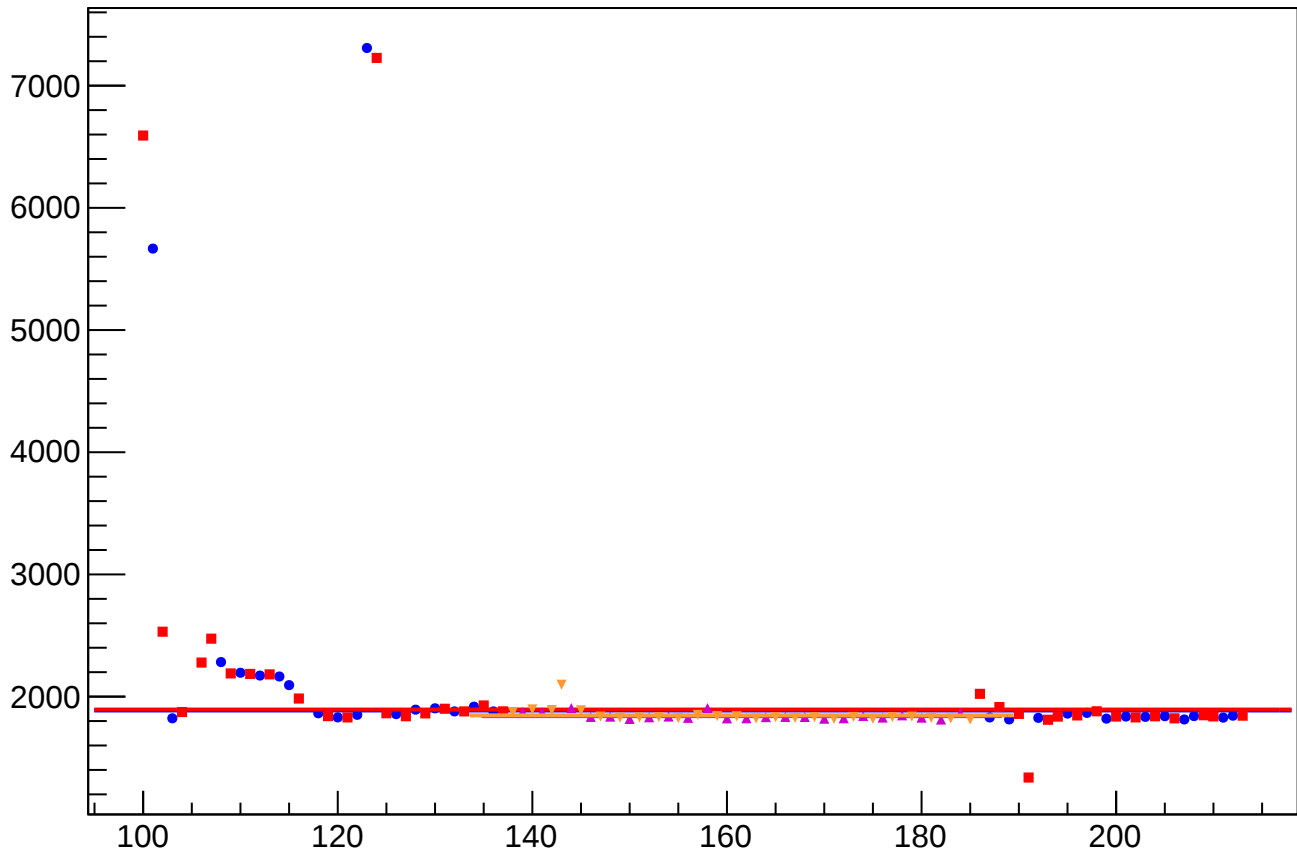
Right: 1663.012 $\pm$ 332.642 χ^2 /NDF: 55.2/63

In: 2032.625 $\pm$ 324.814 χ^2 /NDF:52.3/52

Out: 1726.771 $\pm$ 315.152 χ^2 /NDF:60.5/58

All: 1875.081 $\pm$ 226.185 χ^2 /NDF: 113.3/111

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1886.840+/-0.339 χ^2/NDF : 640260.9/29

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1894.081+/-0.327 χ^2/NDF : 476536.3/33

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

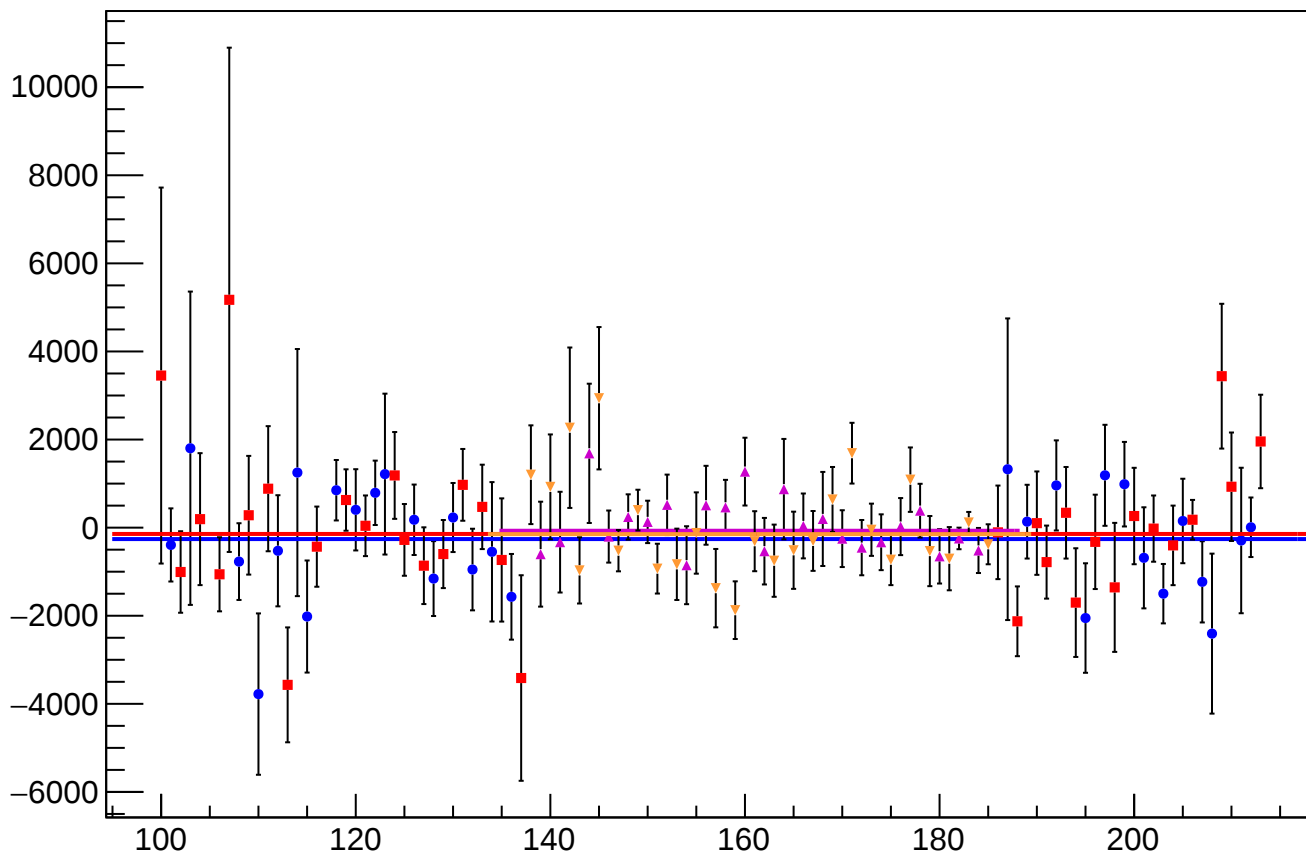
Right: 1890.593+/-0.235 χ^2/NDF : 1117033.7/63

In: 1861.804+/-0.230 χ^2/NDF : 657092.3/52

Out: 1868.692+/-0.223 χ^2/NDF : 515132.6/58

All: 1865.352+/-0.160 χ^2/NDF : 1172688.1/11

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -259.356 ± 181.882 χ^2/NDF : 30.3/29

Left Out: -146.999 ± 121.984 χ^2/NDF : 37.7/24

Right Out: -143.046 ± 163.945 χ^2/NDF : 39.5/33

Left In: -70.340 ± 126.373 χ^2/NDF : 12.3/22

Left: -110.024 ± 87.766 χ^2/NDF : 50.1/47

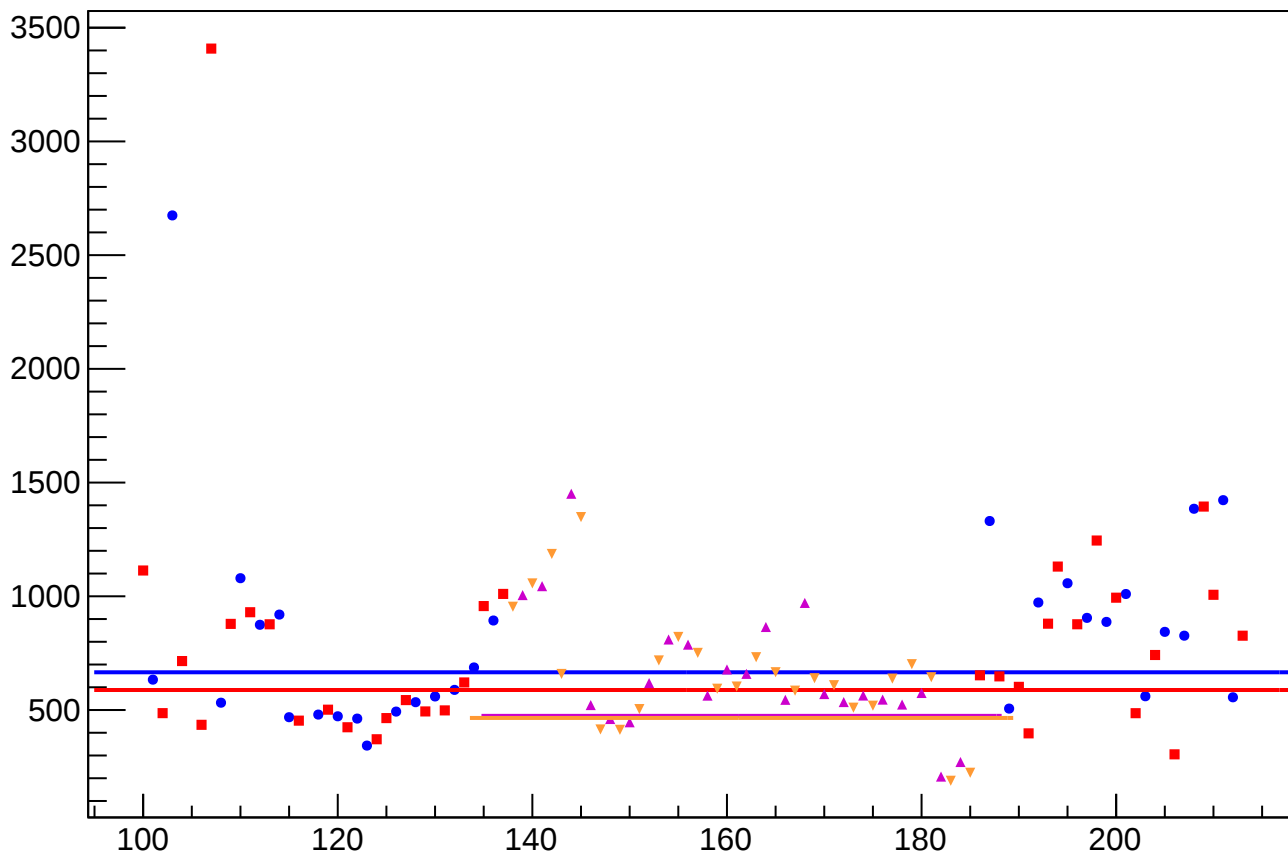
Right: -195.185 ± 121.776 χ^2/NDF : 70.0/63

In: -131.880 ± 103.781 χ^2/NDF : 43.3/52

Out: -145.590 ± 97.866 χ^2/NDF : 77.2/58

All: -139.137 ± 71.201 χ^2/NDF : 120.5/111

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 665.864 $\pm$ 0.129 χ^2 /NDF: 3529023.0/29

Left Out: 465.080 $\pm$ 0.086 χ^2 /NDF: 7086137.6/24

Right Out: 587.970 $\pm$ 0.116 χ^2 /NDF: 4715573.4/33

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

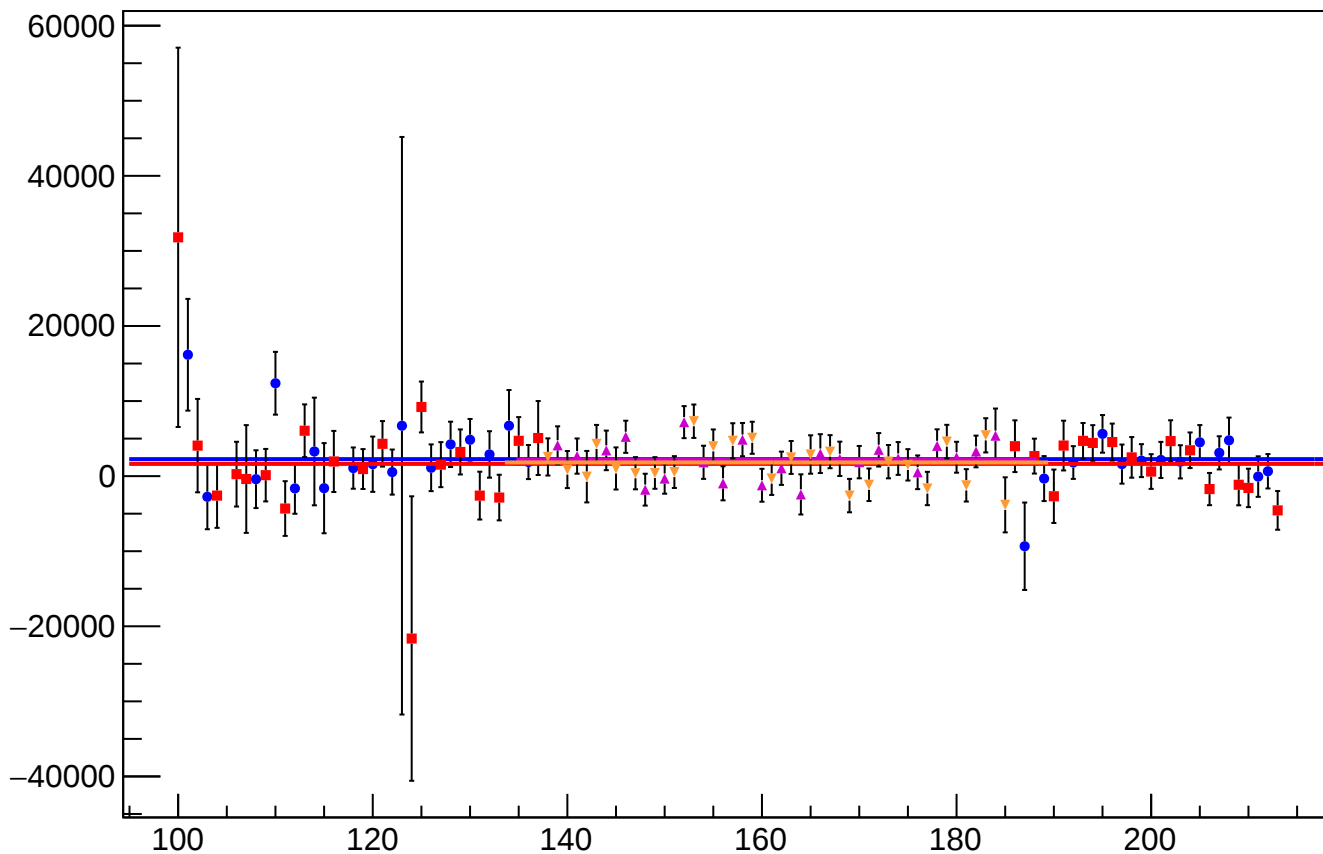
Right: 622.888 $\pm$ 0.086 χ^2 /NDF: 8446981.3/63

In: 536.644 $\pm$ 0.073 χ^2 /NDF: 11198969.0/52

Out: 508.871 $\pm$ 0.069 χ^2 /NDF: 12525014.5/58

All: 521.944 $\pm$ 0.050 χ^2 /NDF: 23799799.9/111

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2263.509+/-541.677 χ^2/NDF : 25.5/29

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 1630.759+/-526.433 χ^2/NDF : 40.2/33

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

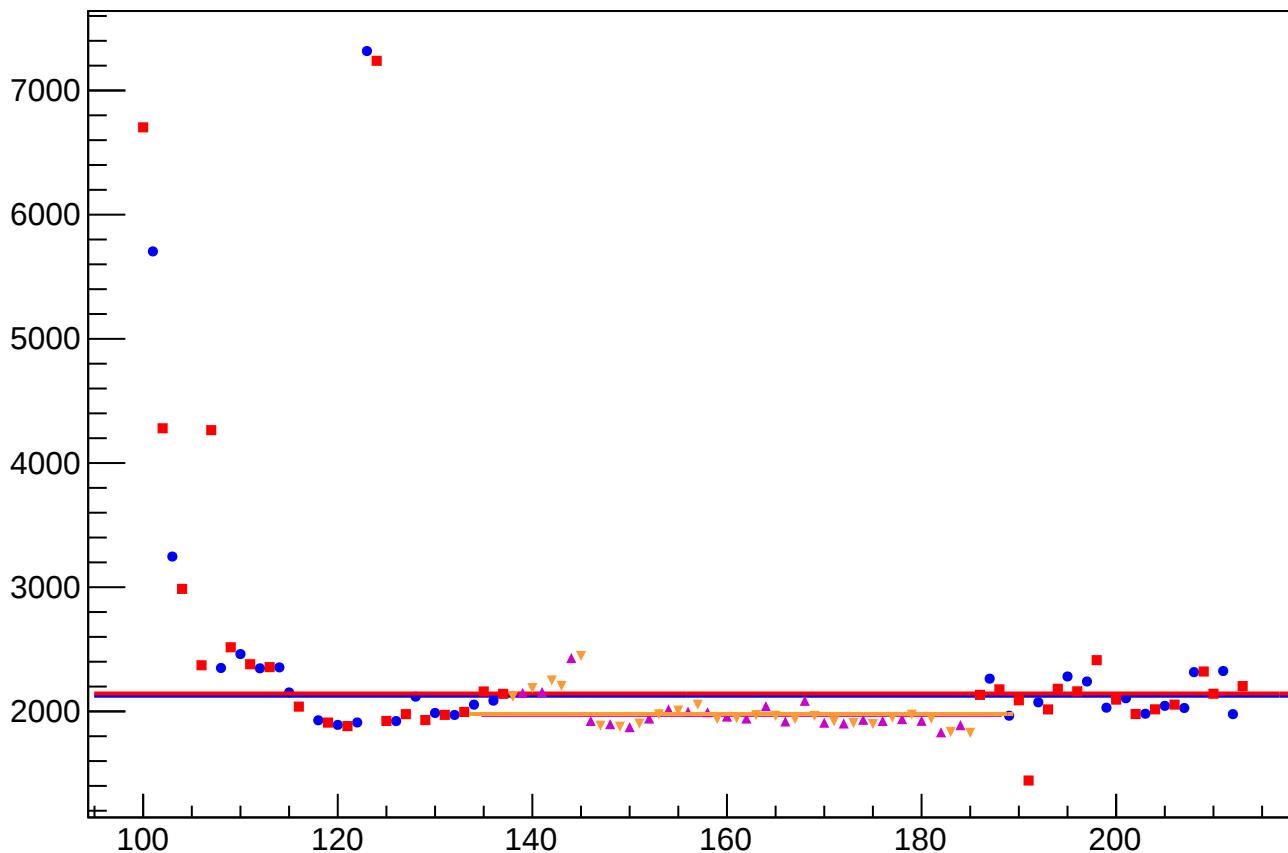
Right: 1938.106+/-377.518 χ^2/NDF : 66.4/63

In: 2232.140+/-356.732 χ^2/NDF : 50.9/52

Out: 1739.818+/-347.536 χ^2/NDF : 72.4/58

All: 1979.551+/-248.933 χ^2/NDF : 124.2/111

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2126.235+/-0.383 χ^2/NDF : 777757.3/29

Left Out: 1978.997+/-0.327 χ^2/NDF : 139299.8/24

Right Out: 2144.159+/-0.372 χ^2/NDF : 951630.0/33

Left In: 1972.166+/-0.335 χ^2/NDF : 116452.5/22

Left: 1975.665+/-0.234 χ^2/NDF : 255965.0/47

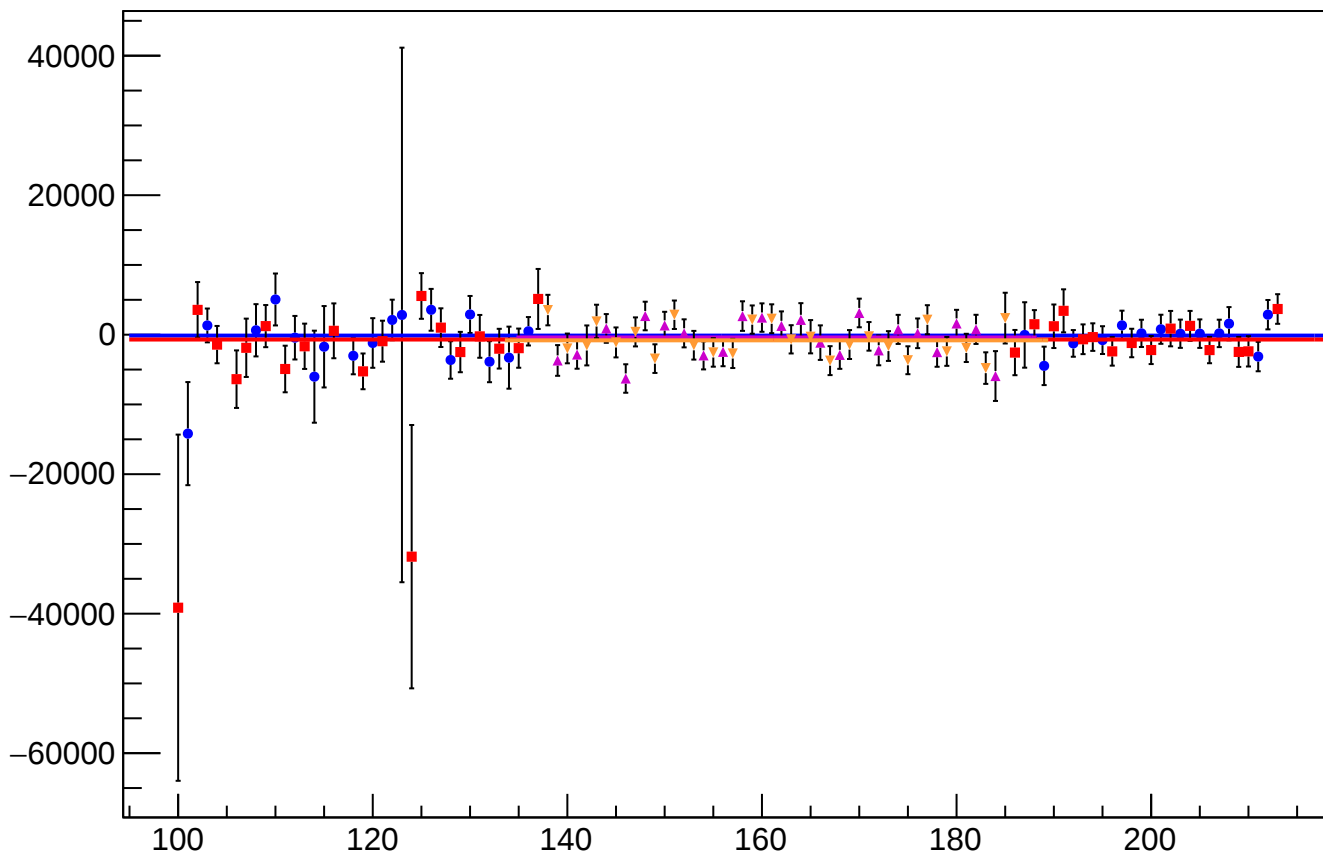
Right: 2135.453+/-0.267 χ^2/NDF : 1730513.6/63

In: 2038.988+/-0.252 χ^2/NDF : 985835.0/52

Out: 2050.979+/-0.246 χ^2/NDF : 1201994.7/58

All: 2045.140+/-0.176 χ^2/NDF : 2188989.1/111

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -130.888+/-475.988 χ^2/NDF : 23.7/29

Left Out: -808.436+/-430.304 χ^2/NDF :27.9/24

Right Out: -694.720+/-458.509 χ^2/NDF : 32.7/33

Left In: -398.797+/-441.246 χ^2/NDF :34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

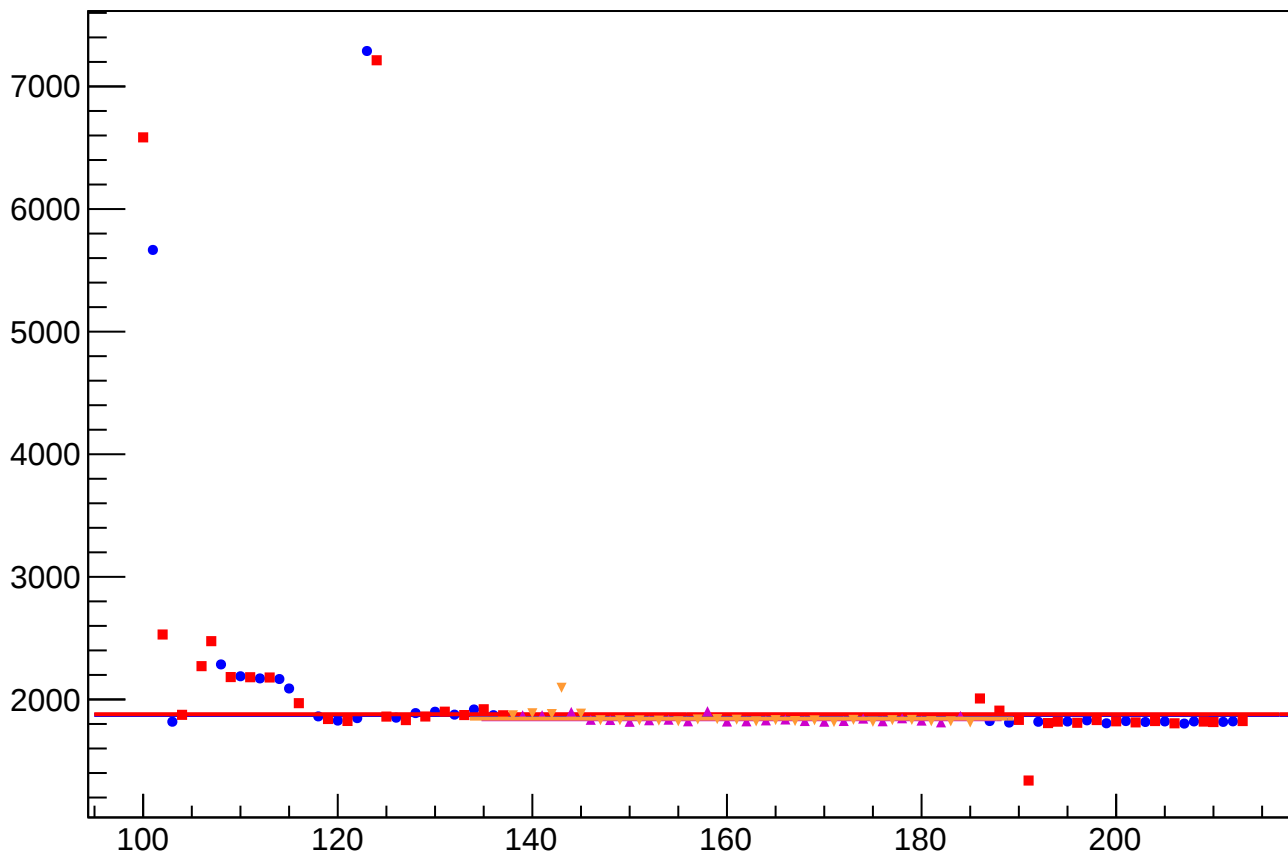
Right: -423.346+/-330.221 χ^2/NDF : 57.2/63

In: -274.976+/-323.594 χ^2/NDF :58.3/52

Out: -755.183+/-313.768 χ^2/NDF :60.7/58

All: -522.480+/-225.261 χ^2/NDF : 120.1/111

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1873.520+/-0.337 χ^2/NDF : 650153.0/29

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1879.451+/-0.324 χ^2/NDF : 485483.9/33

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

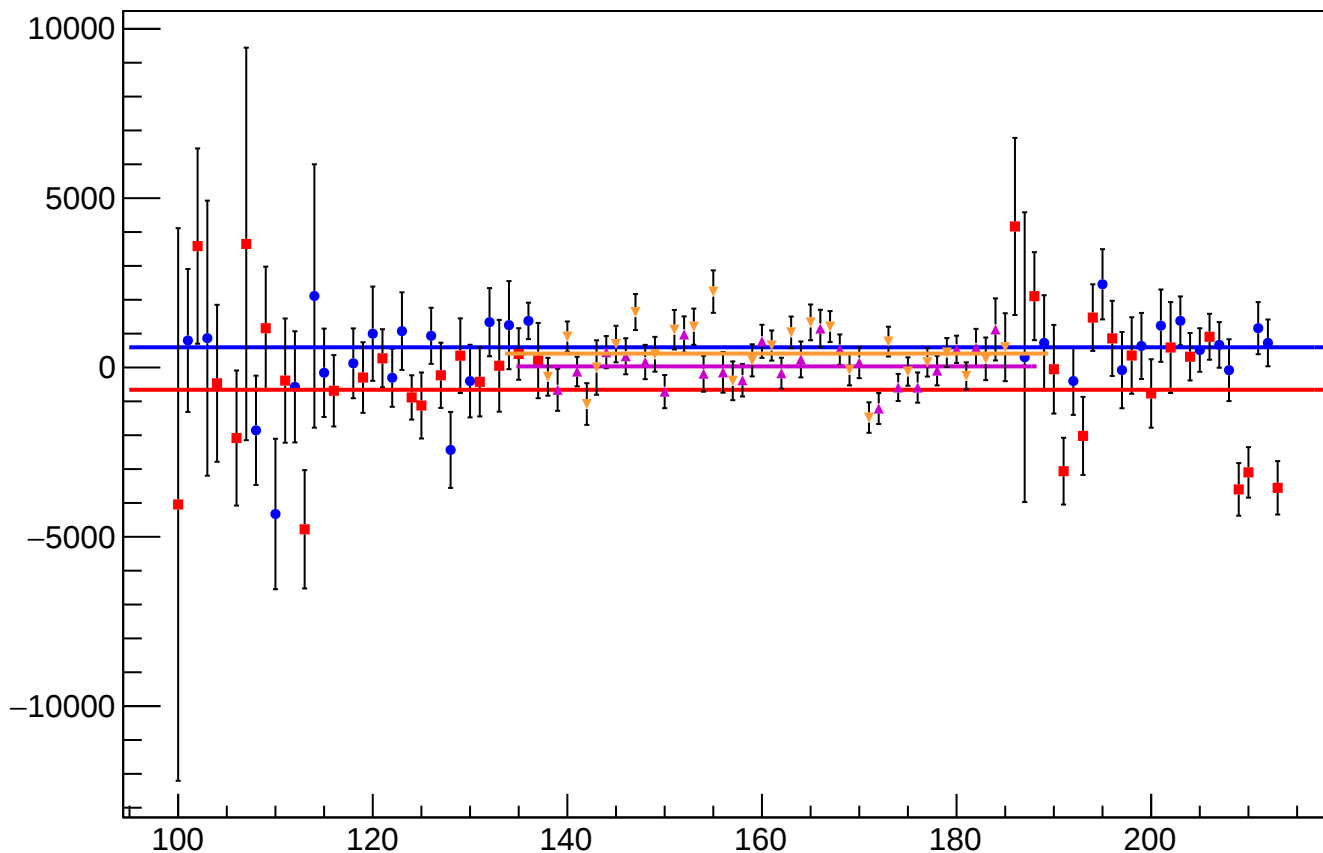
Right: 1876.597+/-0.234 χ^2/NDF : 1135798.0/63

In: 1854.745+/-0.229 χ^2/NDF : 662273.7/52

Out: 1860.467+/-0.222 χ^2/NDF : 518799.8/58

All: 1857.694+/-0.159 χ^2/NDF : 1181395.8/111

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 596.796 ± 181.482 $\chi^2/\text{NDF}: 28.3/29$

Left Out: 411.072 ± 100.456 $\chi^2/\text{NDF}: 61.2/24$

Right Out: -657.933 ± 180.825 $\chi^2/\text{NDF}: 85.1/33$

Left In: 32.456 ± 102.403 $\chi^2/\text{NDF}: 32.7/22$

Left: 225.398 ± 71.712 $\chi^2/\text{NDF}: 100.9/47$

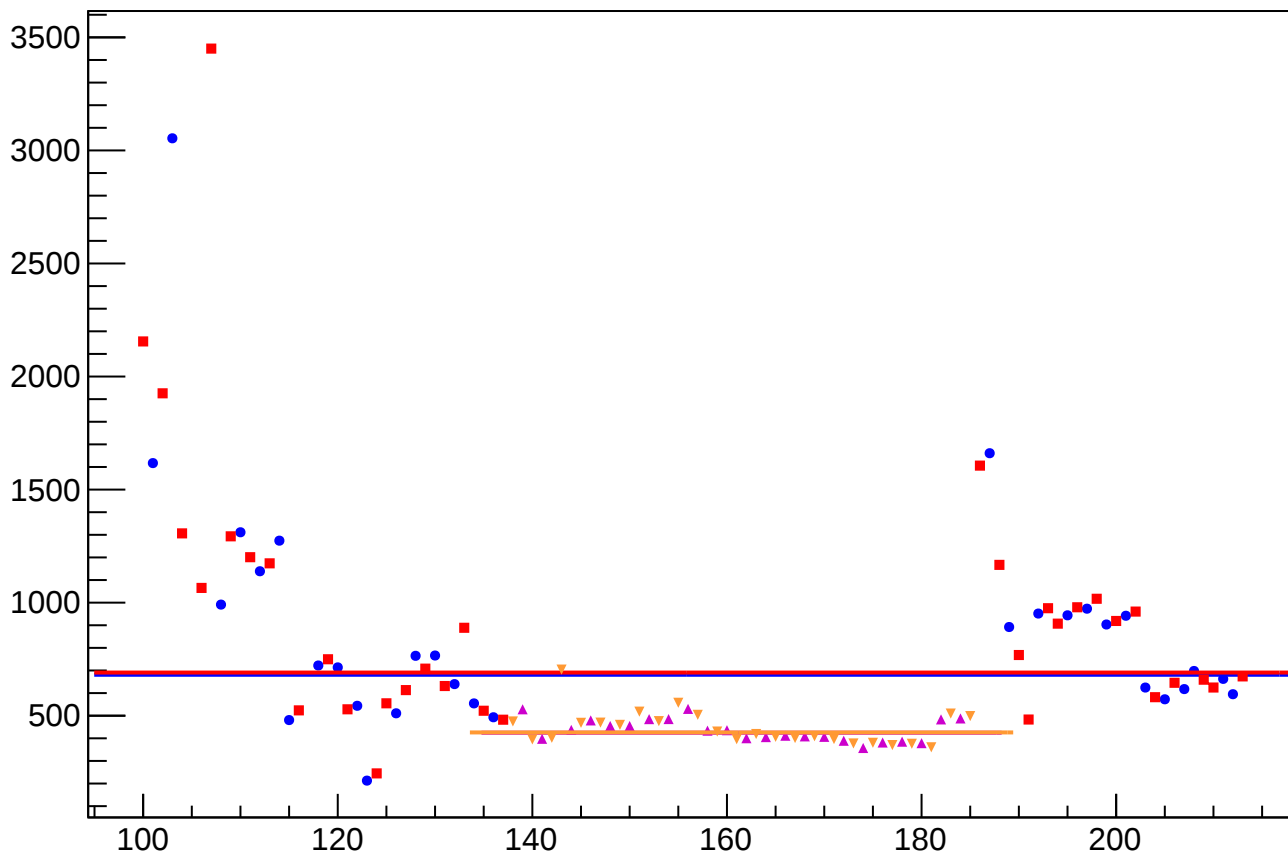
Right: -32.844 ± 128.094 $\chi^2/\text{NDF}: 137.3/63$

In: 168.744 ± 89.185 $\chi^2/\text{NDF}: 68.3/52$

Out: 158.957 ± 87.815 $\chi^2/\text{NDF}: 172.9/58$

All: 163.775 ± 62.573 $\chi^2/\text{NDF}: 241.3/111$

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 681.075 $\pm$ 0.128 χ^2 /NDF: 3226919.4/29

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 690.842 $\pm$ 0.128 χ^2 /NDF: 4343954.3/33

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

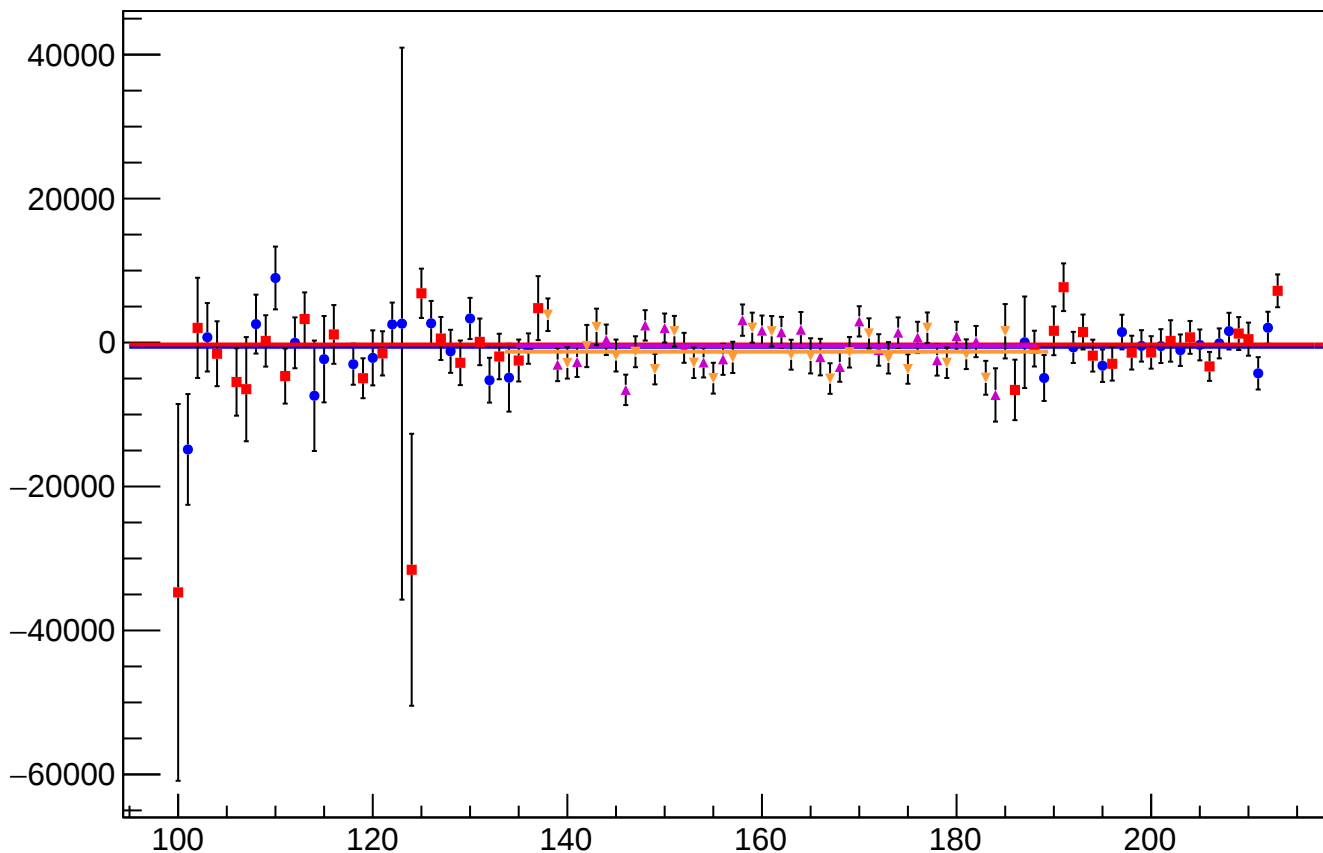
Right: 685.976 $\pm$ 0.091 χ^2 /NDF: 7573780.5/63

In: 486.568 $\pm$ 0.063 χ^2 /NDF: 6647382.3/52

Out: 488.481 $\pm$ 0.062 χ^2 /NDF: 8354815.5/58

All: 487.539 $\pm$ 0.044 χ^2 /NDF: 15002665.4/110

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -586.691+/-525.940 χ^2 /NDF: 26.7/29

Left Out: -1267.885+/-443.219 χ^2 /NDF:30.8/24

Right Out: -270.741+/-514.022 χ^2 /NDF: 44.2/33

Left In: -462.599+/-453.947 χ^2 /NDF:32.6/22

Left: -874.870+/-317.128 χ^2 /NDF: 65.0/47

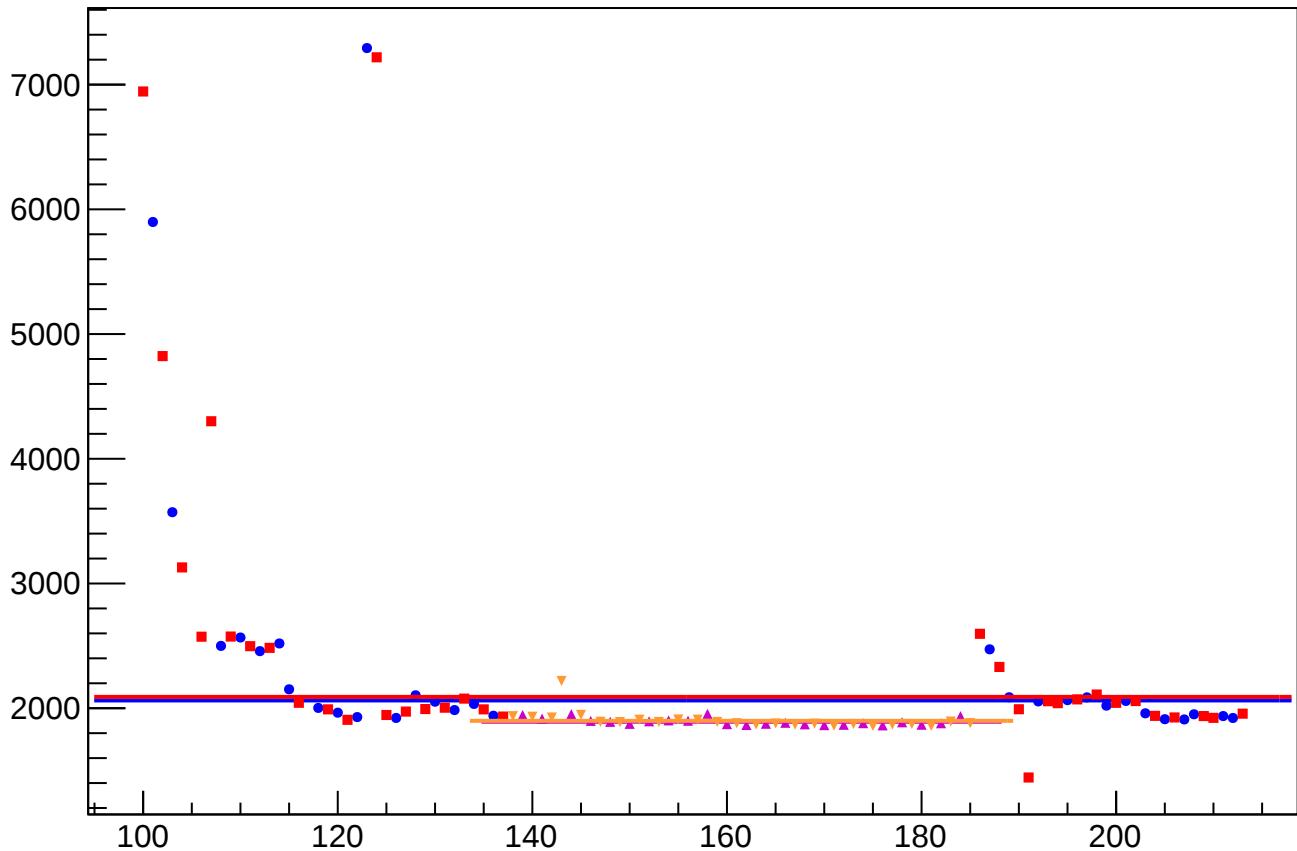
Right: -425.095+/-367.610 χ^2 /NDF: 71.1/63

In: -515.577+/-343.646 χ^2 /NDF:59.3/52

Out: -842.666+/-335.667 χ^2 /NDF:77.2/58

All: -682.963+/-240.124 χ^2 /NDF: 136.9/111

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2062.331+/-0.372 χ^2/NDF : 889103.5/29

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2090.917+/-0.363 χ^2/NDF : 1122451.0/33

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

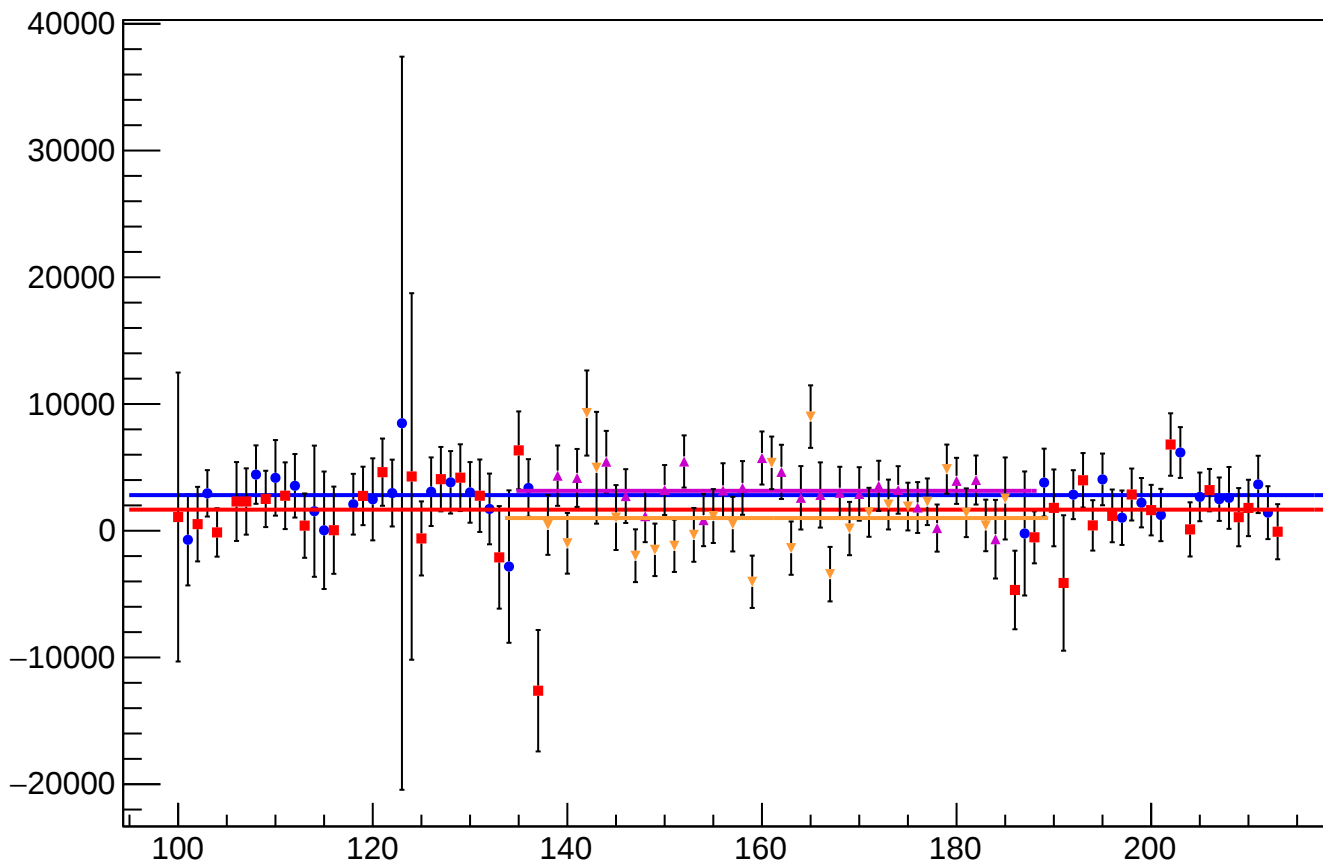
Right: 2076.952+/-0.260 χ^2/NDF : 2014576.4/63

In: 1964.542+/-0.243 χ^2/NDF : 1017172.7/52

Out: 1980.819+/-0.237 χ^2/NDF : 1321106.0/58

All: 1972.871+/-0.170 χ^2/NDF : 2340574.7/11

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2811.659 $\pm$ 446.406 χ^2 /NDF: 9.3/29

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF:44.6/24

Right Out: 1664.637 $\pm$ 432.836 χ^2 /NDF: 32.9/33

Left In: 3150.437 $\pm$ 441.145 χ^2 /NDF:11.8/22

Left: 2061.387 $\pm$ 309.830 χ^2 /NDF: 68.5/47

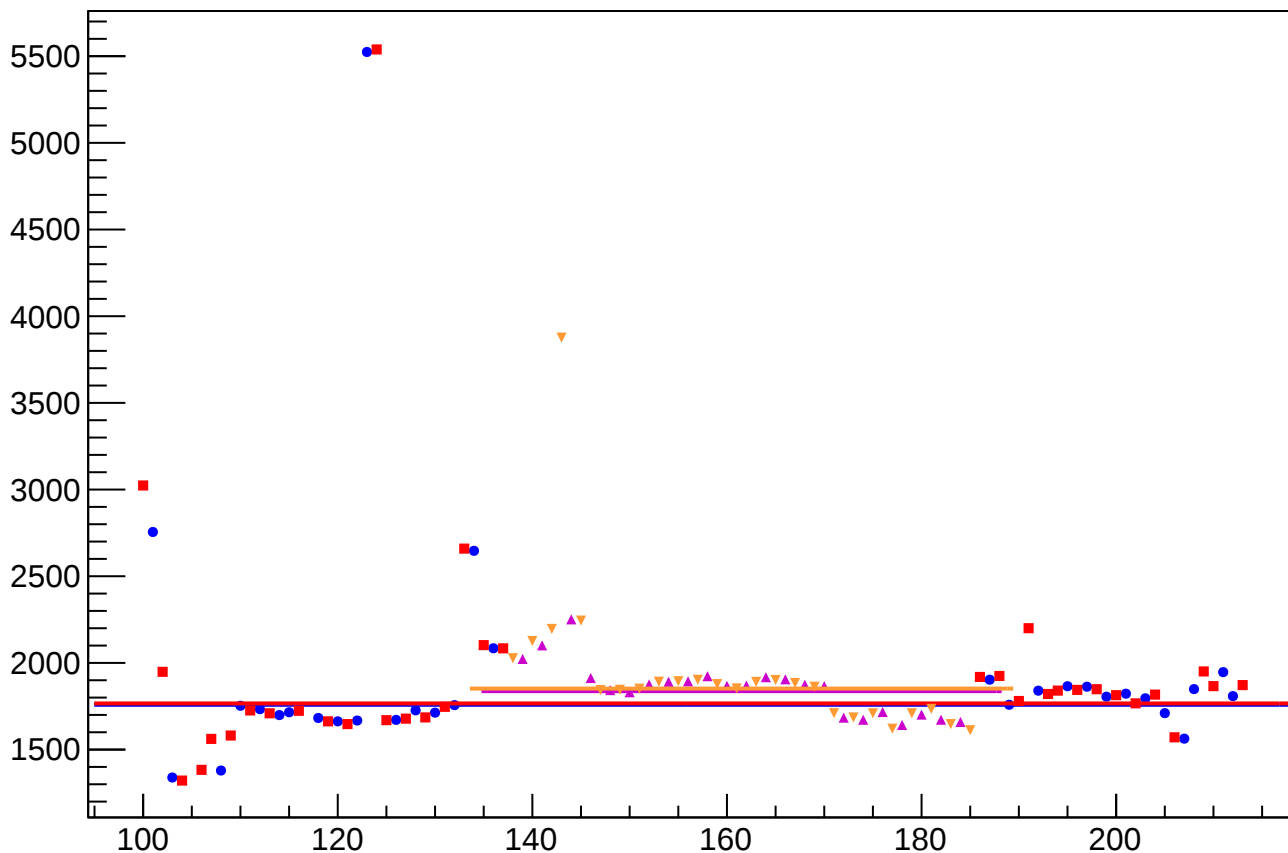
Right: 2220.449 $\pm$ 310.748 χ^2 /NDF: 45.6/63

In: 2983.056 $\pm$ 313.780 χ^2 /NDF:21.4/52

Out: 1334.792 $\pm$ 306.910 χ^2 /NDF:78.7/58

All: 2140.683 $\pm$ 219.407 χ^2 /NDF: 114.3/111

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1758.407+/-0.316 χ^2/NDF : 505360.7/29

Left Out: 1851.959+/-0.308 χ^2/NDF : 648954.2/24

Right Out: 1766.180+/-0.306 χ^2/NDF : 570908.9/33

Left In: 1837.151+/-0.312 χ^2/NDF : 200514.0/22

Left: 1844.654+/-0.219 χ^2/NDF : 850610.1/47

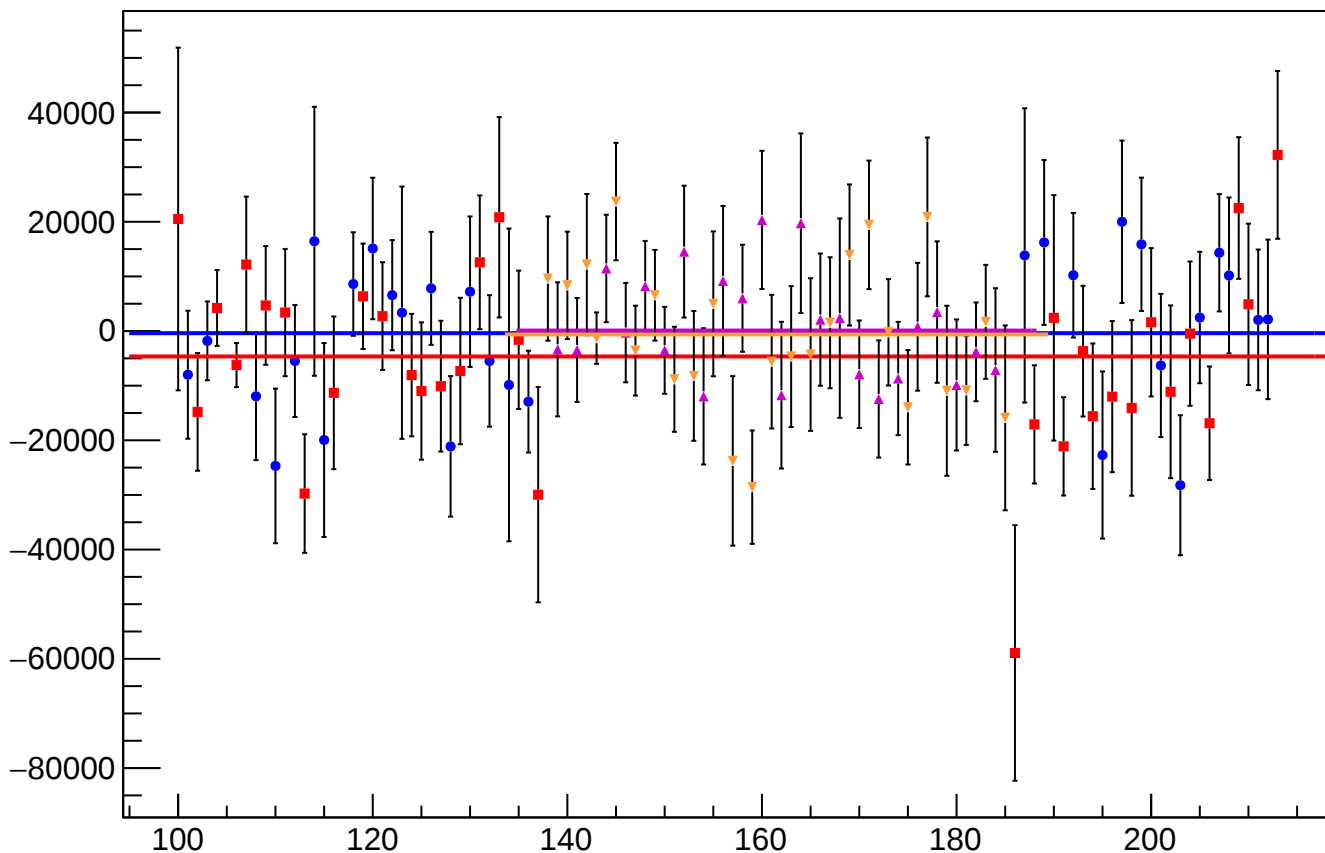
Right: 1762.414+/-0.220 χ^2/NDF : 1076582.2/63

In: 1798.246+/-0.222 χ^2/NDF : 737358.5/52

Out: 1808.831+/-0.217 χ^2/NDF : 1258919.6/58

All: 1803.656+/-0.155 χ^2/NDF : 1997441.3/11

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -389.428+/-2268.236 χ^2/NDF : 30.4/29

Left Out: -619.372+/-2069.686 χ^2/NDF :30.1/24

Right Out: -4650.404+/-1890.727 χ^2/NDF : 43.9/33

Left In: 93.334+/-2293.826 χ^2/NDF :14.6/22

Left: -299.532+/-1536.638 χ^2/NDF : 44.8/47

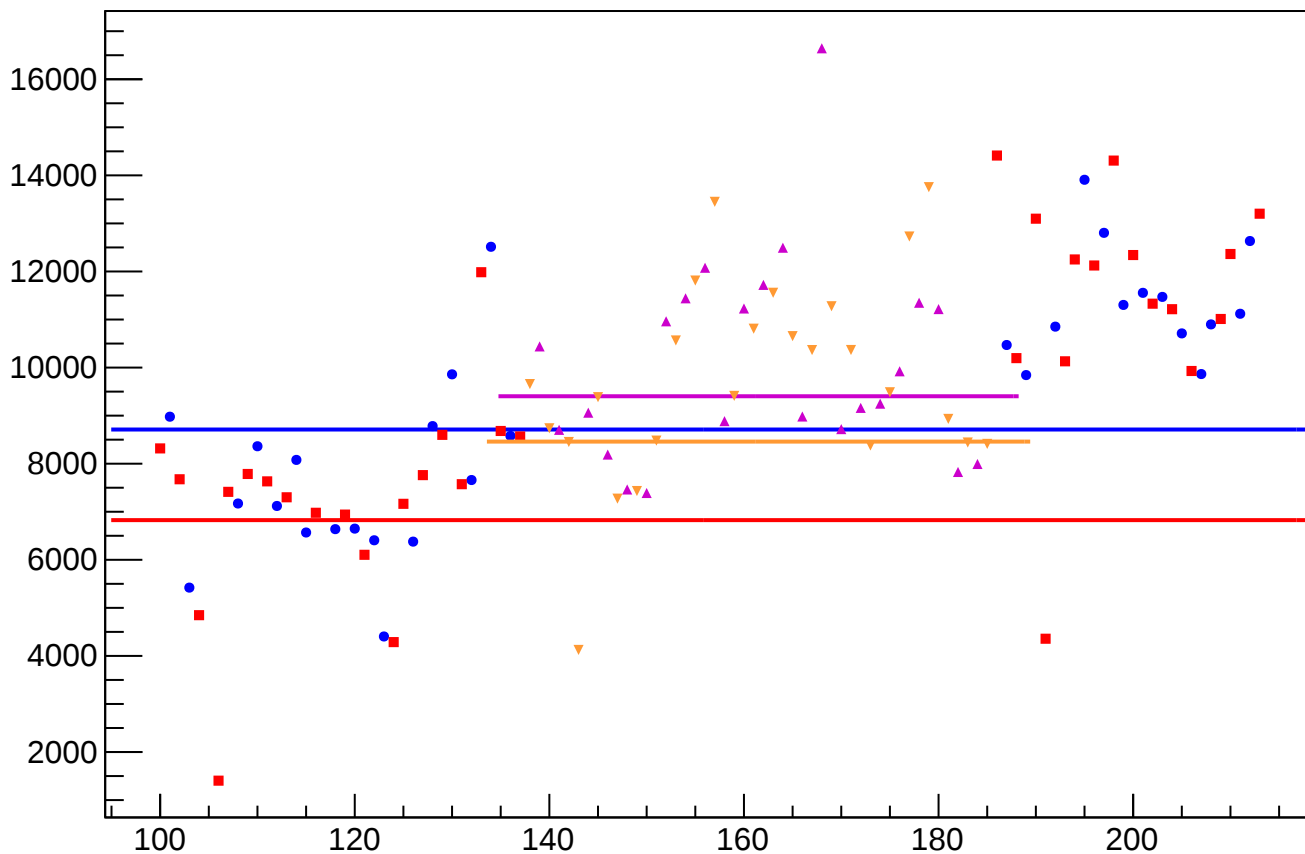
Right: -2903.524+/-1452.329 χ^2/NDF : 76.4/63

In: -150.755+/-1612.856 χ^2/NDF :45.0/52

Out: -2816.668+/-1395.934 χ^2/NDF :76.1/58

All: -1674.919+/-1055.499 χ^2/NDF : 122.7/111

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8711.219+/-1.604 χ^2/NDF : 2108490.3/29

Left Out: 8459.960+/-1.463 χ^2/NDF : 3087200.5/24

Right Out: 6825.632+/-1.337 χ^2/NDF : 7862734.9/33

Left In: 9403.481+/-1.622 χ^2/NDF : 1142646.9/22

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

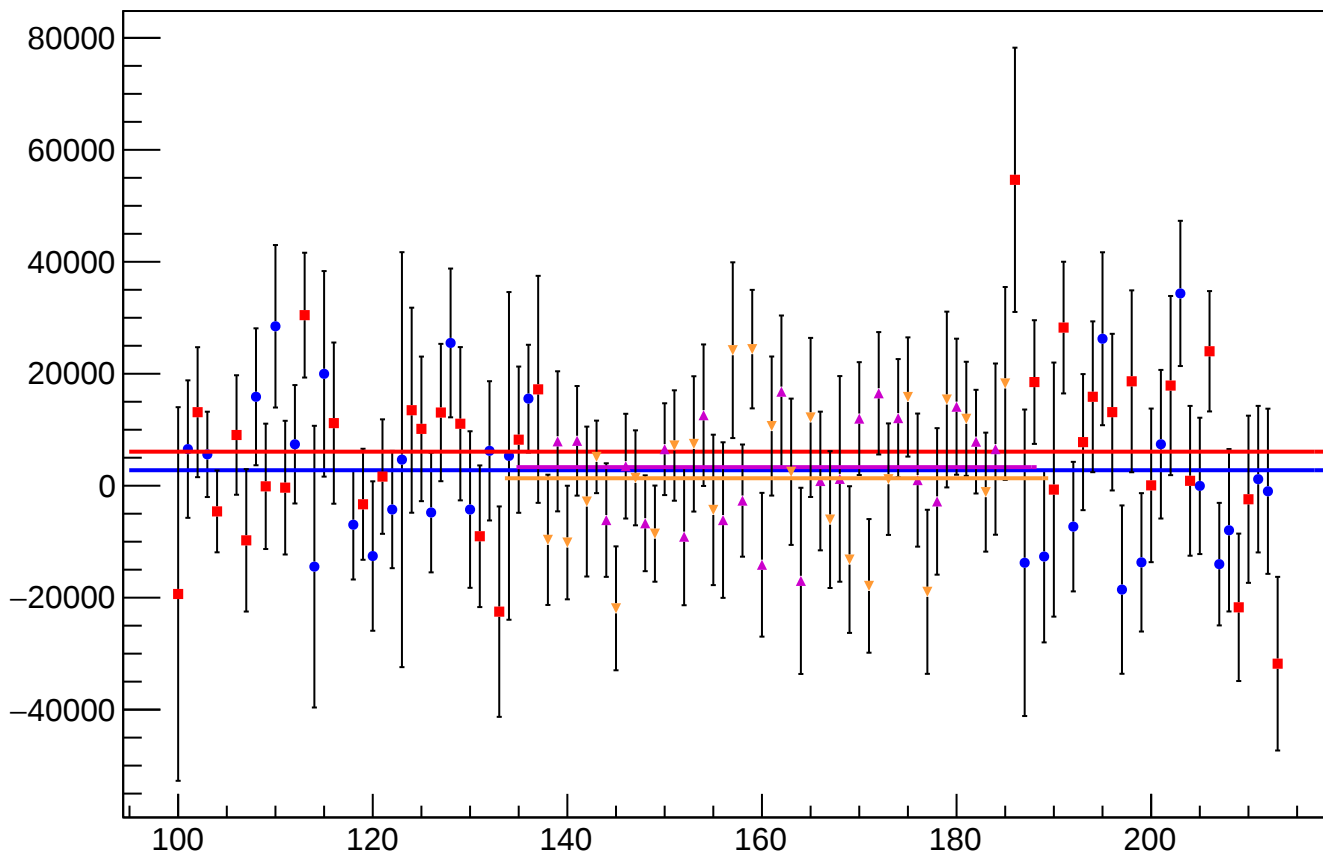
Right: 7598.669+/-1.027 χ^2/NDF : 10786716.8/63

In: 9053.467+/-1.140 χ^2/NDF : 3343238.5/52

Out: 7569.096+/-0.987 χ^2/NDF : 11629720.7/58

All: 8204.817+/-0.746 χ^2/NDF : 15941481.2/131

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2765.891 $\pm$ 2339.274 χ^2 /NDF: 31.7/29

Left Out: 1332.828 $\pm$ 2213.733 χ^2 /NDF:28.0/24

Right Out: 6080.419 $\pm$ 2202.608 χ^2 /NDF: 41.1/33

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

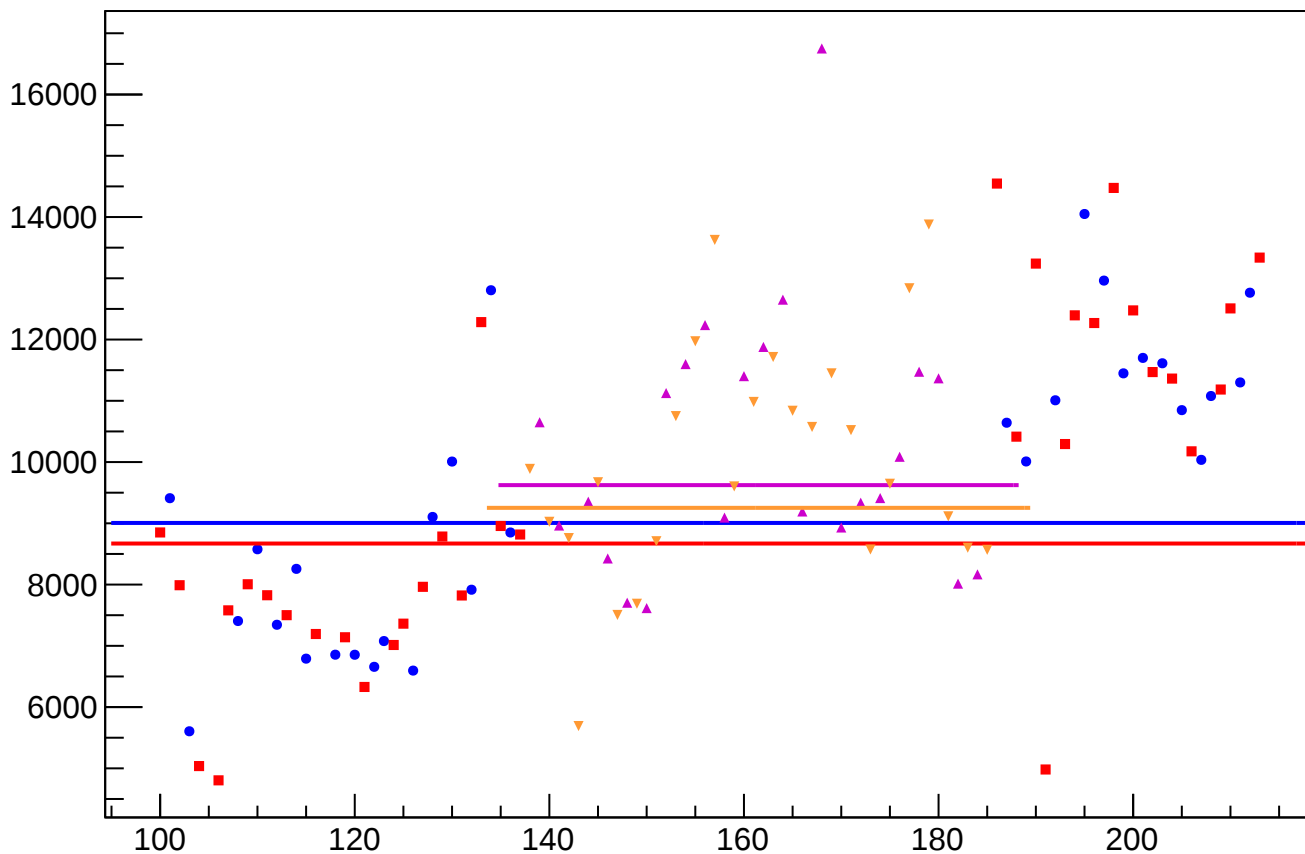
Right: 4522.800 $\pm$ 1603.618 χ^2 /NDF: 73.8/63

In: 3040.780 $\pm$ 1655.976 χ^2 /NDF:45.4/52

Out: 3718.583 $\pm$ 1561.398 χ^2 /NDF:71.4/58

All: 3399.589 $\pm$ 1136.040 χ^2 /NDF: 116.9/111

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9006.199+/-1.654

χ^2/NDF : 1897011.6/29

Left: 9427.467+/-1.138

χ^2/NDF : 2694036.4/47

Left Out: 9252.712+/-1.565

χ^2/NDF : 1597668.9/24

Right: 8828.011+/-1.134

χ^2/NDF : 4787731.9/63

Right Out: 8670.060+/-1.557

χ^2/NDF : 2868828.6/33

In: 9314.143+/-1.171

χ^2/NDF : 3036412.4/52

Out: 8959.890+/-1.104

χ^2/NDF : 4536126.9/58

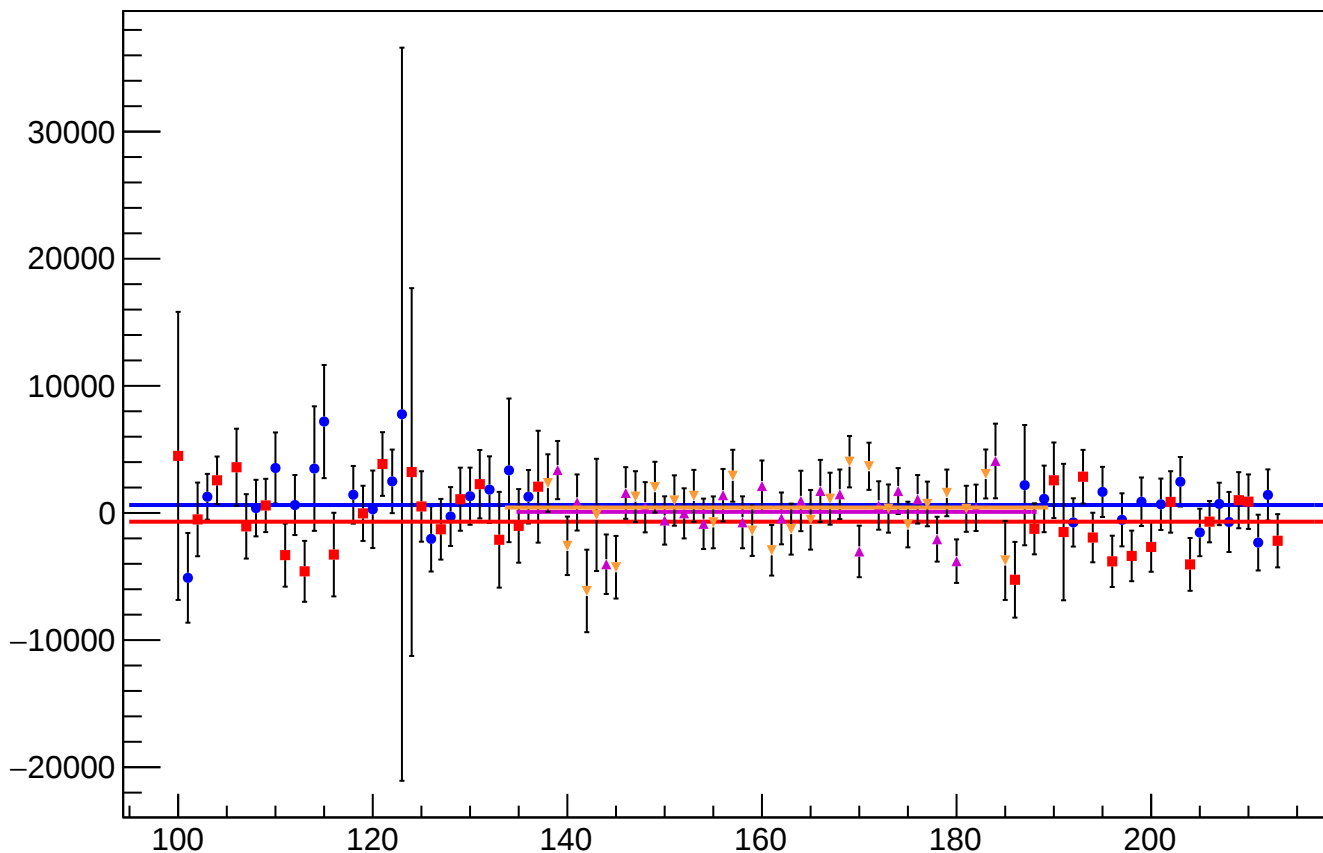
Left In: 9623.485+/-1.658

χ^2/NDF : 1069924.0/22

All: 9126.605+/-0.803

χ^2/NDF : 7620993.6/11

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 624.425+/-429.948 χ^2/NDF : 14.8/29

Left Out: 429.447+/-416.378 χ^2/NDF : 28.7/24

Right Out: -686.840+/-417.108 χ^2/NDF : 32.8/33

Left In: 88.373+/-421.957 χ^2/NDF : 21.0/22

Left: 261.180+/-296.376 χ^2/NDF : 50.0/47

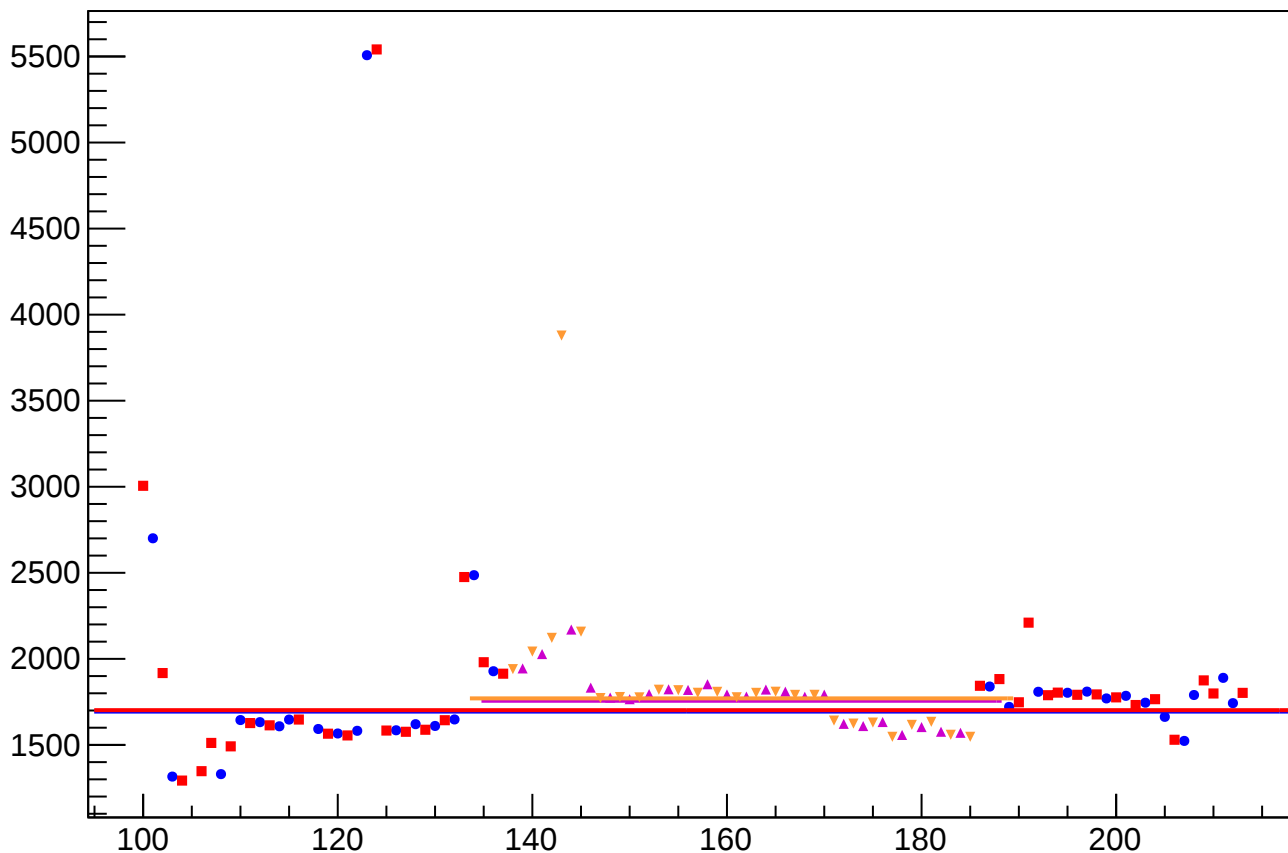
Right: -51.079+/-299.376 χ^2/NDF : 52.4/63

In: 351.371+/-301.154 χ^2/NDF : 36.5/52

Out: -127.718+/-294.682 χ^2/NDF : 65.1/58

All: 106.623+/-210.622 χ^2/NDF : 102.9/111

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1693.690 $\pm$ 0.304 χ^2 /NDF: 499007.5/29

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1701.907 $\pm$ 0.295 χ^2 /NDF: 579161.5/33

Left In: 1756.623 $\pm$ 0.298 χ^2 /NDF: 223077.6/22

Left: 1763.595 $\pm$ 0.210 χ^2 /NDF: 923692.1/47

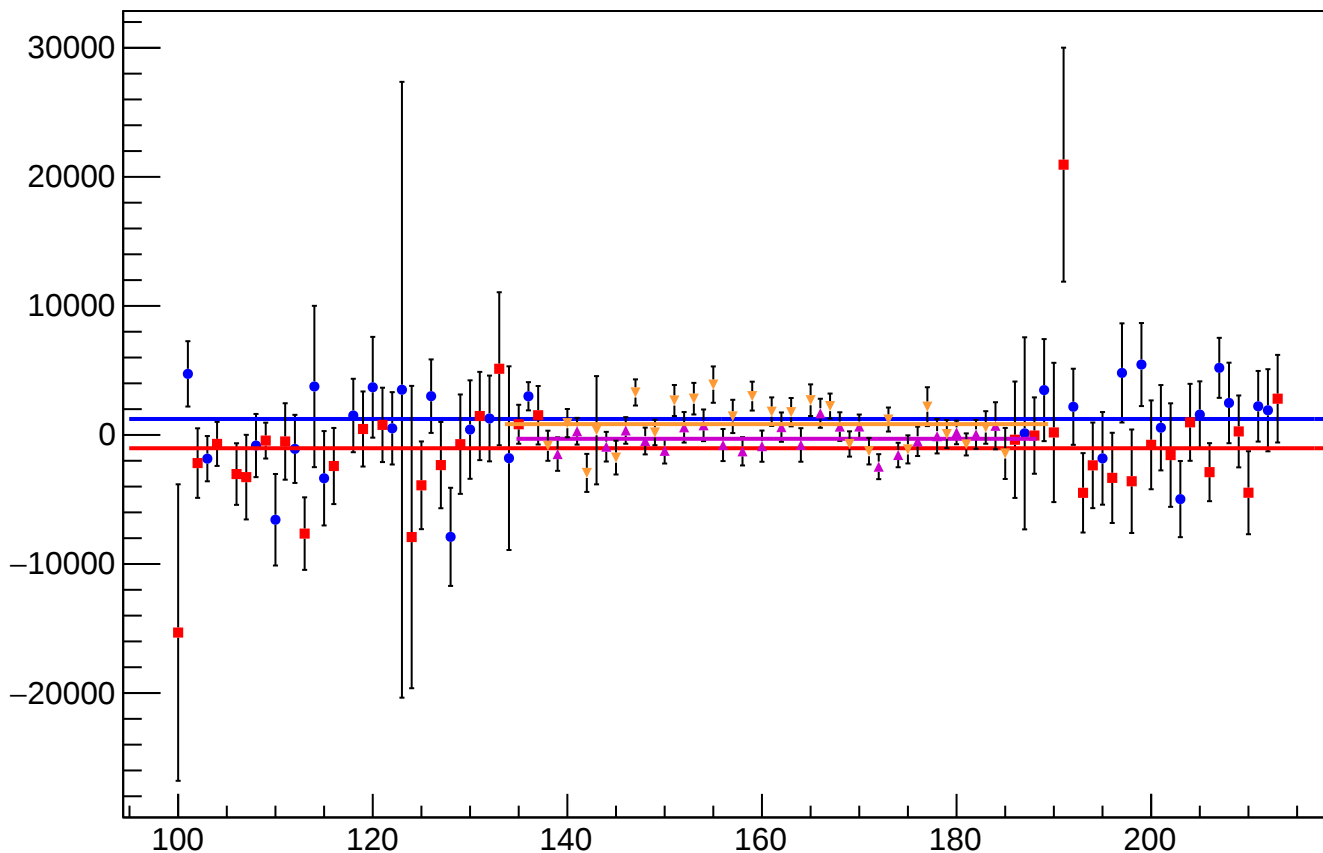
Right: 1697.923 $\pm$ 0.212 χ^2 /NDF: 1078545.4/63

In: 1725.747 $\pm$ 0.213 χ^2 /NDF: 743912.4/52

Out: 1736.205 $\pm$ 0.208 χ^2 /NDF: 1305697.7/58

All: 1731.090 $\pm$ 0.149 χ^2 /NDF: 2050842.3/111

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1238.369 ± 512.101 χ^2/NDF : 34.0/29

Left Out: 839.344 ± 230.465 χ^2/NDF : 54.4/24

Right Out: -1029.372 ± 488.666 χ^2/NDF : 27.3/33

Left In: -298.801 ± 231.400 χ^2/NDF : 18.3/22

Left: 272.574 ± 163.293 χ^2/NDF : 84.9/47

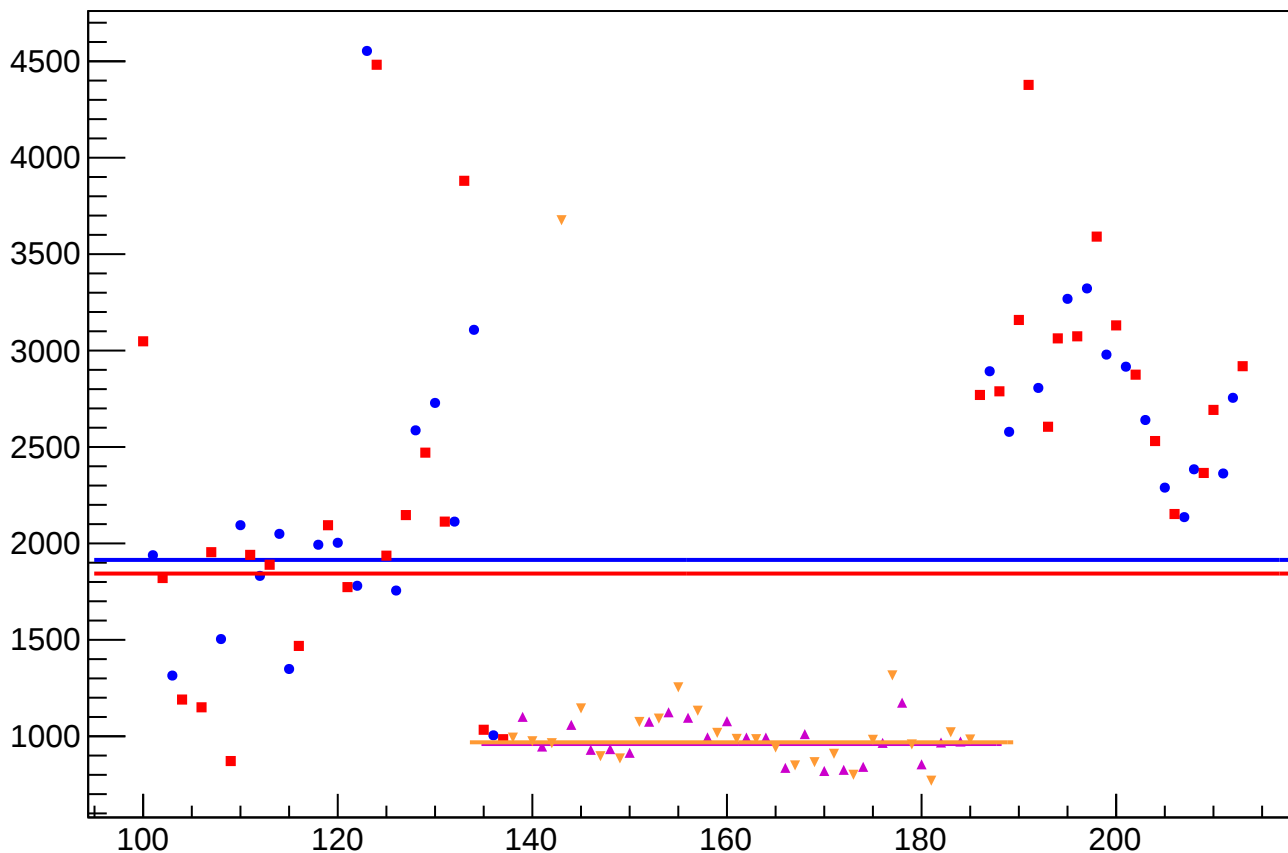
Right: 51.423 ± 353.534 χ^2/NDF : 71.6/63

In: -38.159 ± 210.871 χ^2/NDF : 59.8/52

Out: 499.322 ± 208.446 χ^2/NDF : 93.7/58

All: 233.689 ± 148.244 χ^2/NDF : 156.7/111

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1914.474+/-0.362 χ^2/NDF : 3634551.9/29

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1843.683+/-0.346 χ^2/NDF : 5349446.4/33

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

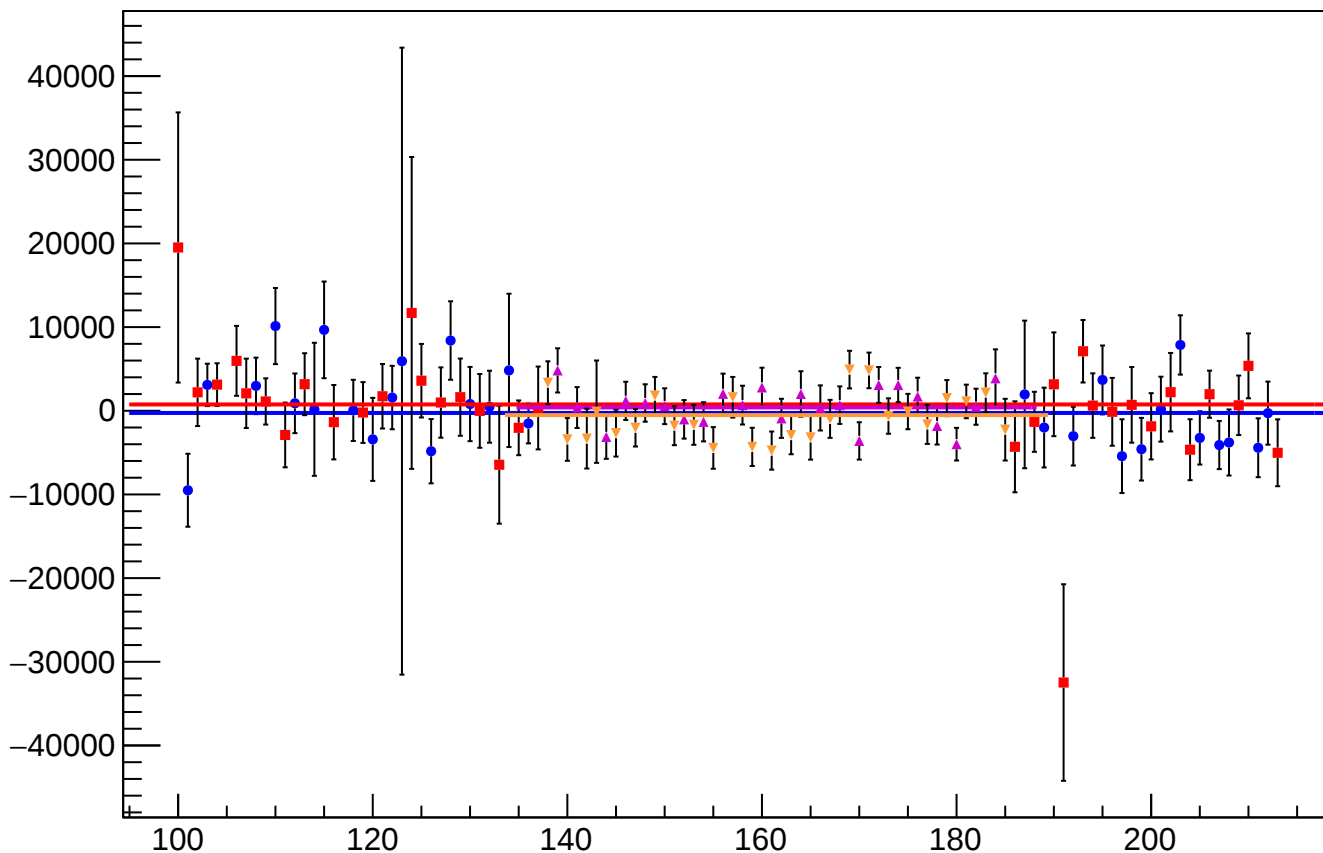
Right: 1877.421+/-0.250 χ^2/NDF : 9004002.0/63

In: 1121.678+/-0.149 χ^2/NDF : 9777848.6/52

Out: 1127.917+/-0.147 χ^2/NDF : 11988448.4/58

All: 1124.834+/-0.105 χ^2/NDF : 21767182.5/113

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -259.201 ± 713.902 χ^2/NDF : 36.2/29

Left Out: -517.719 ± 481.486 χ^2/NDF : 34.0/24

Right Out: 755.771 ± 694.085 χ^2/NDF : 27.1/33

Left In: 397.398 ± 485.048 χ^2/NDF : 21.8/22

Left: -63.533 ± 341.714 χ^2/NDF : 57.7/47

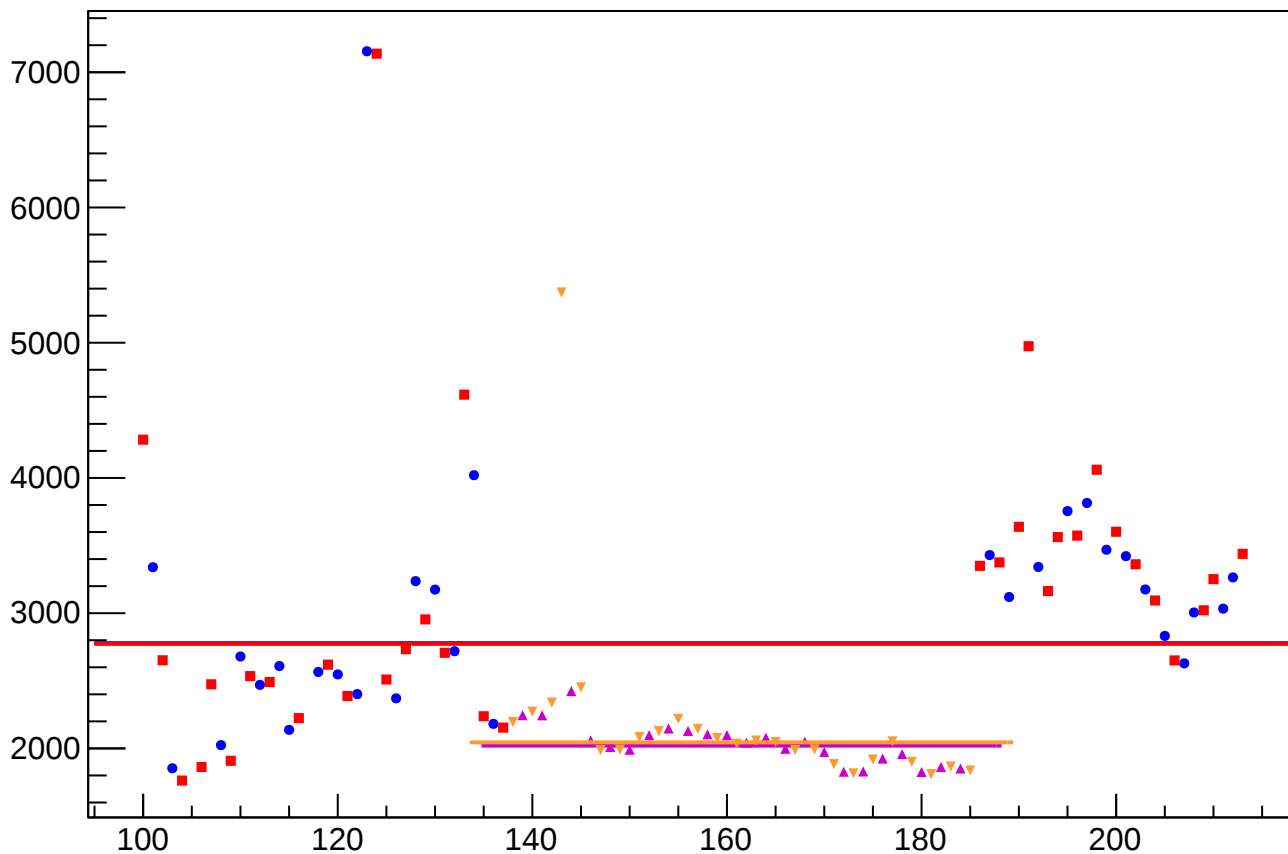
Right: 262.567 ± 497.651 χ^2/NDF : 64.3/63

In: 190.024 ± 401.205 χ^2/NDF : 58.6/52

Out: -103.988 ± 395.616 χ^2/NDF : 63.4/58

All: 40.956 ± 281.698 χ^2/NDF : 122.2/111

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2778.138+/-0.505 χ^2/NDF : 1220626.3/29

Left Out: 2044.722+/-0.340 χ^2/NDF : 788703.5/24

Right Out: 2773.623+/-0.491 χ^2/NDF : 1818654.1/33

Left In: 2020.802+/-0.343 χ^2/NDF : 173502.0/22

Left: 2032.850+/-0.242 χ^2/NDF : 964655.5/47

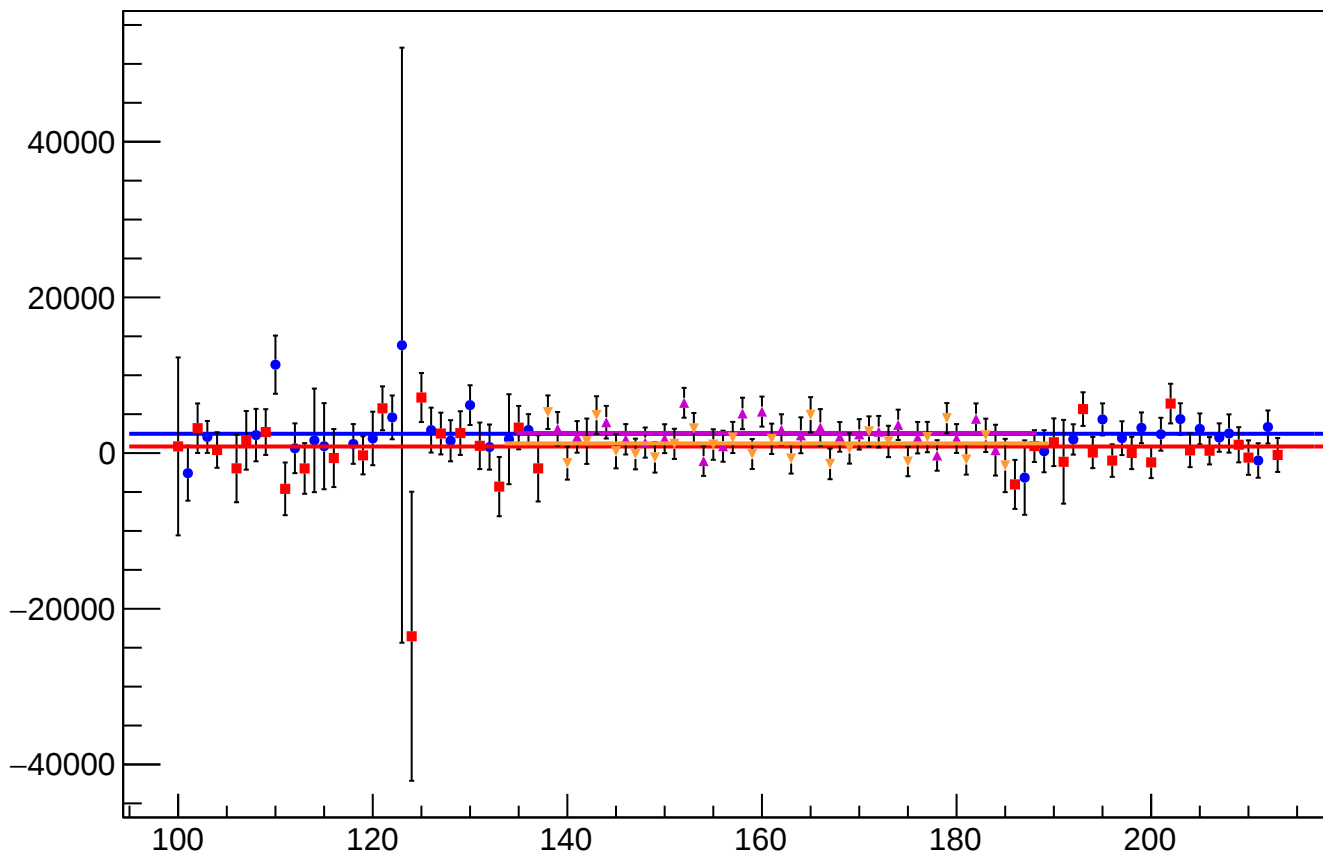
Right: 2775.817+/-0.352 χ^2/NDF : 3039321.6/63

In: 2259.992+/-0.284 χ^2/NDF : 2934034.4/52

Out: 2281.529+/-0.280 χ^2/NDF : 4096460.2/58

All: 2270.912+/-0.199 χ^2/NDF : 7033416.4/11

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2480.454+/-468.349 χ^2/NDF : 18.6/29

Left Out: 1249.917+/-412.486 χ^2/NDF : 23.0/24

Right Out: 847.353+/-457.903 χ^2/NDF : 32.7/33

Left In: 2586.937+/-421.510 χ^2/NDF : 17.5/22

Left: 1903.961+/-294.810 χ^2/NDF : 45.6/47

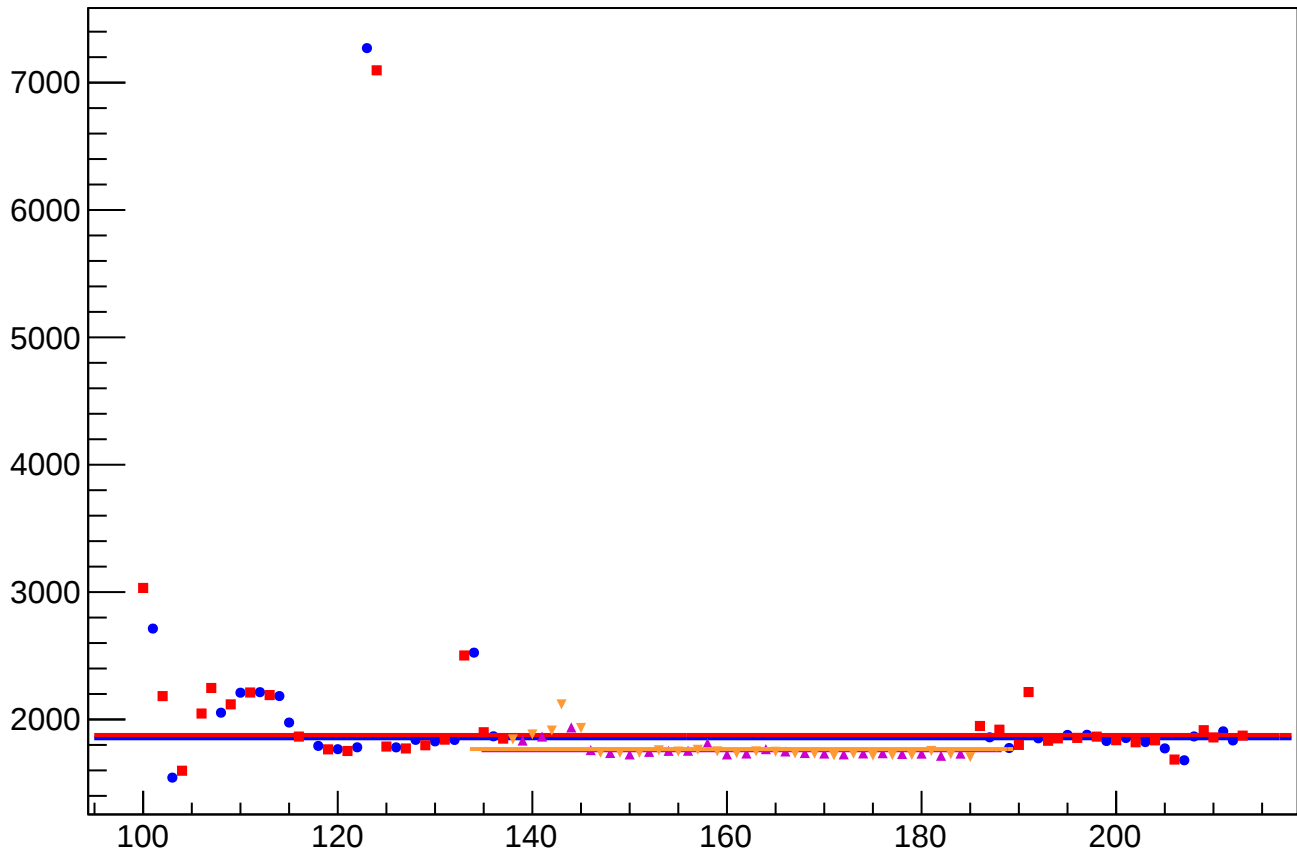
Right: 1645.487+/-327.417 χ^2/NDF : 57.5/63

In: 2539.285+/-313.307 χ^2/NDF : 36.1/52

Out: 1069.584+/-306.474 χ^2/NDF : 56.2/58

All: 1788.232+/-219.086 χ^2/NDF : 103.5/111

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1852.195+/-0.331 χ^2/NDF : 318952.3/29

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1878.357+/-0.324 χ^2/NDF : 409784.7/33

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

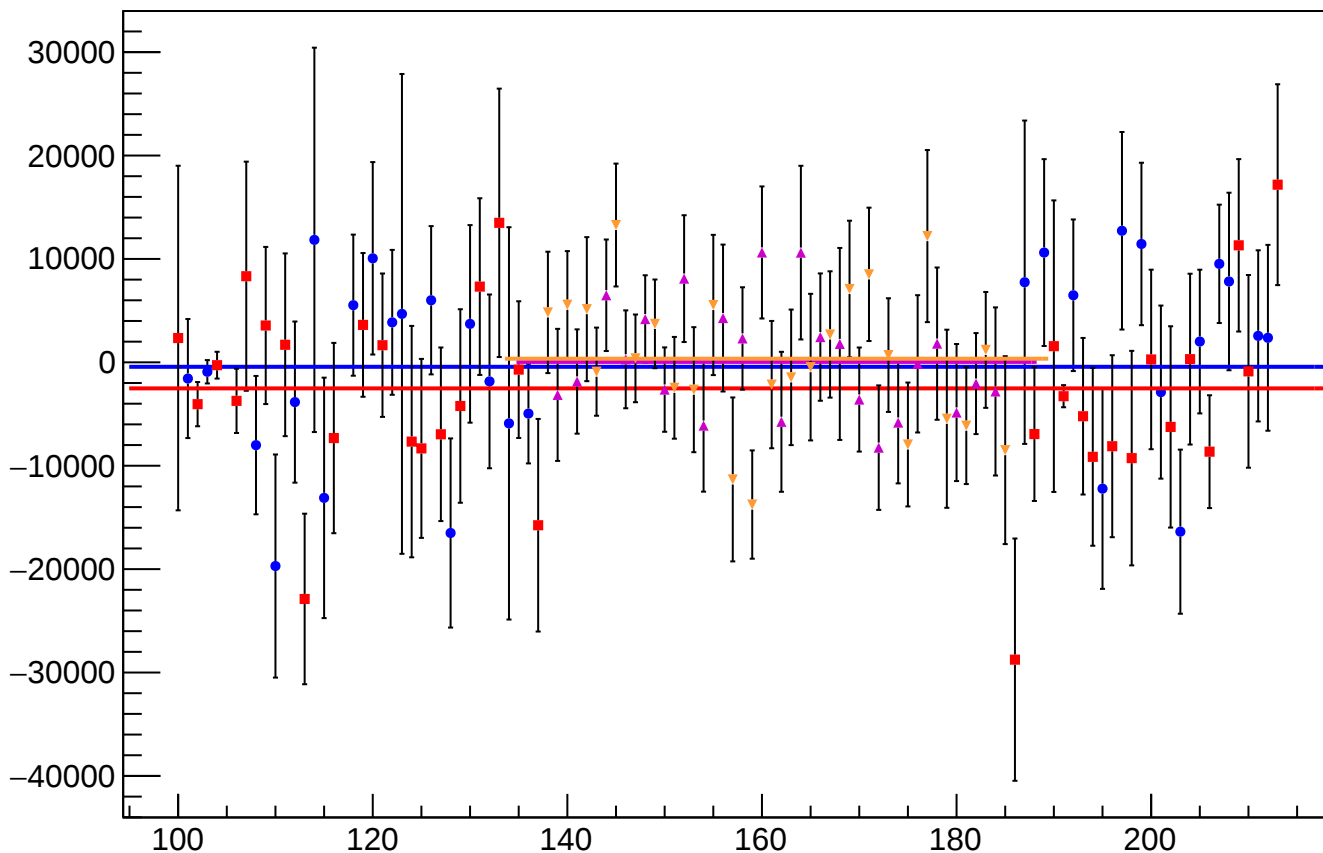
Right: 1865.579+/-0.231 χ^2/NDF : 731929.8/63

In: 1800.195+/-0.222 χ^2/NDF : 393382.1/52

Out: 1817.202+/-0.217 χ^2/NDF : 552194.8/58

All: 1808.888+/-0.155 χ^2/NDF : 948589.2/111

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -432.190 ± 903.564 χ^2/NDF : 30.8/29

Left Out: 351.227 ± 1170.051 χ^2/NDF : 27.8/24

Right Out: -2519.739 ± 674.489 χ^2/NDF : 34.8/33

Left In: 40.618 ± 1207.491 χ^2/NDF : 16.0/22

Left: 200.813 ± 840.276 χ^2/NDF : 43.9/47

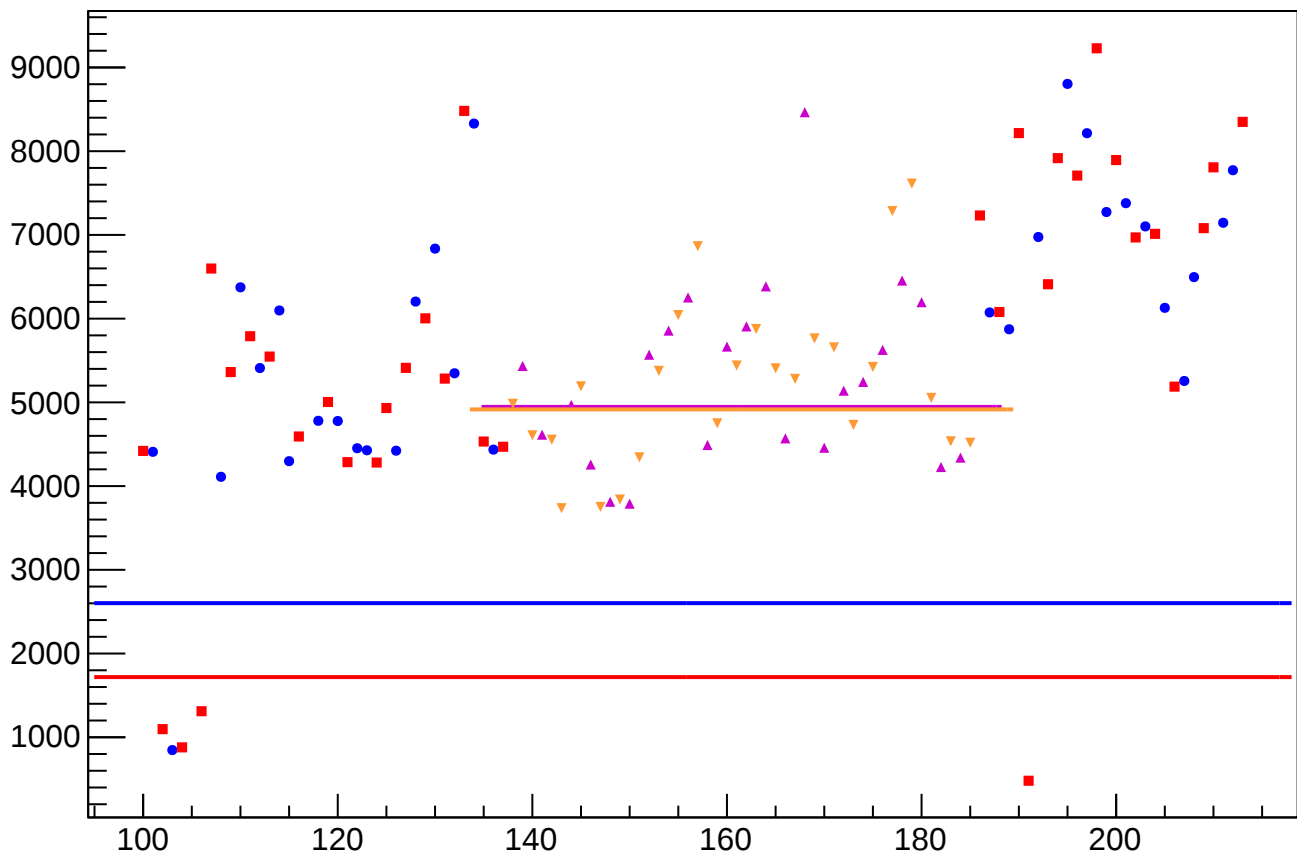
Right: -1772.745 ± 540.504 χ^2/NDF : 69.0/63

In: -262.474 ± 723.442 χ^2/NDF : 46.9/52

Out: -1803.655 ± 584.350 χ^2/NDF : 67.1/58

All: -1195.145 ± 454.580 χ^2/NDF : 116.8/111

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2601.967 $\pm$ 0.639

χ^2 /NDF: 14935736.6/29

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: 2034.761 $\pm$ 0.382

χ^2 /NDF: 36534085.4/63

Right Out: 1718.698 $\pm$ 0.477

χ^2 /NDF: 20371063.6/33

In: 3443.302 $\pm$ 0.512

χ^2 /NDF: 20954733.2/52

Out: 2516.144 $\pm$ 0.413

χ^2 /NDF: 32766010.1/58

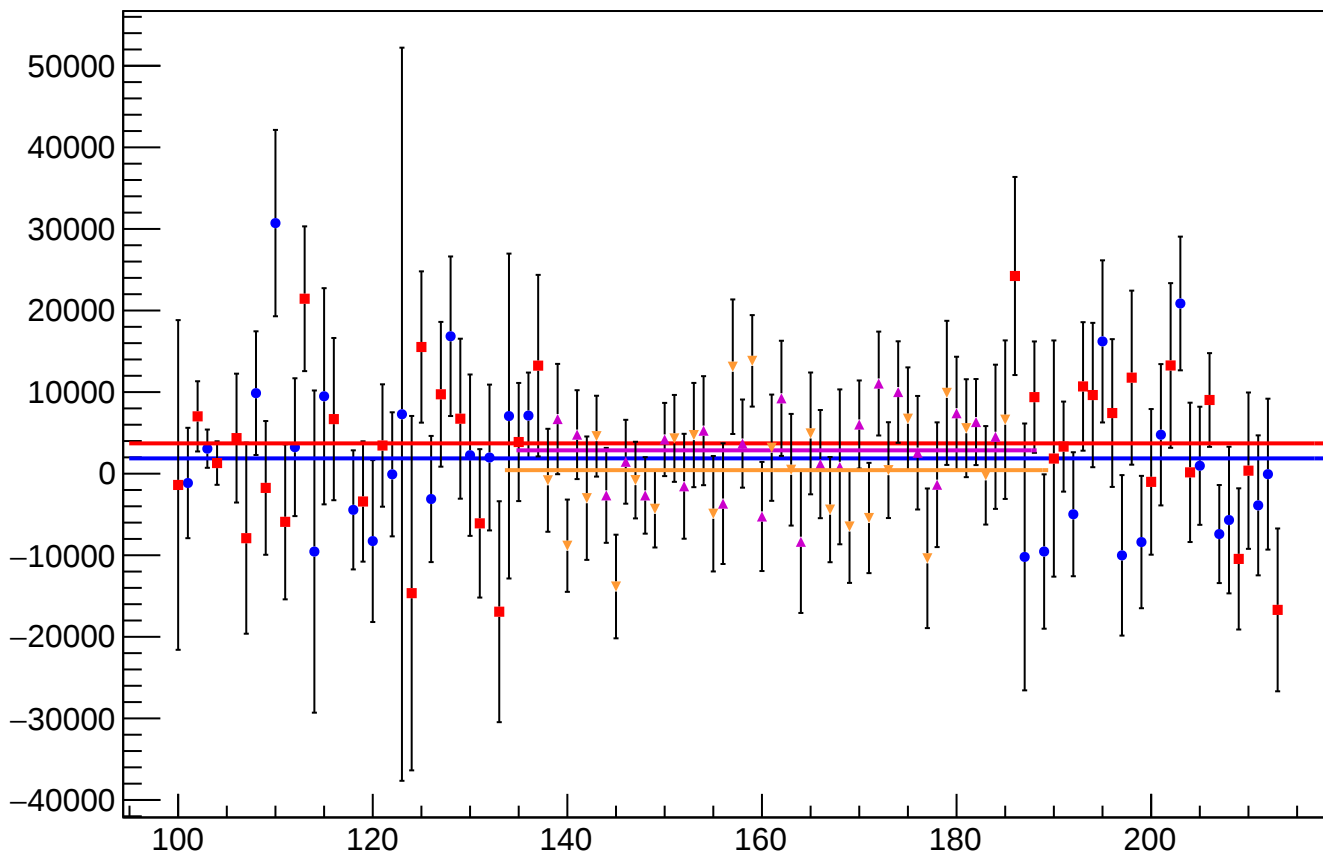
Left In: 4945.817 $\pm$ 0.854

χ^2 /NDF: 1188288.6/22

All: 2882.217 $\pm$ 0.321

χ^2 /NDF: 55708691.5/1

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1873.893 $\pm$ 1328.474 χ^2 /NDF: 31.4/29

Left Out: 430.860 $\pm$ 1258.273 χ^2 /NDF: 27.1/24

Right Out: 3713.905 $\pm$ 1287.685 χ^2 /NDF: 30.8/33

Left In: 2860.252 $\pm$ 1292.328 χ^2 /NDF: 12.9/22

Left: 1613.125 $\pm$ 901.533 χ^2 /NDF: 41.8/47

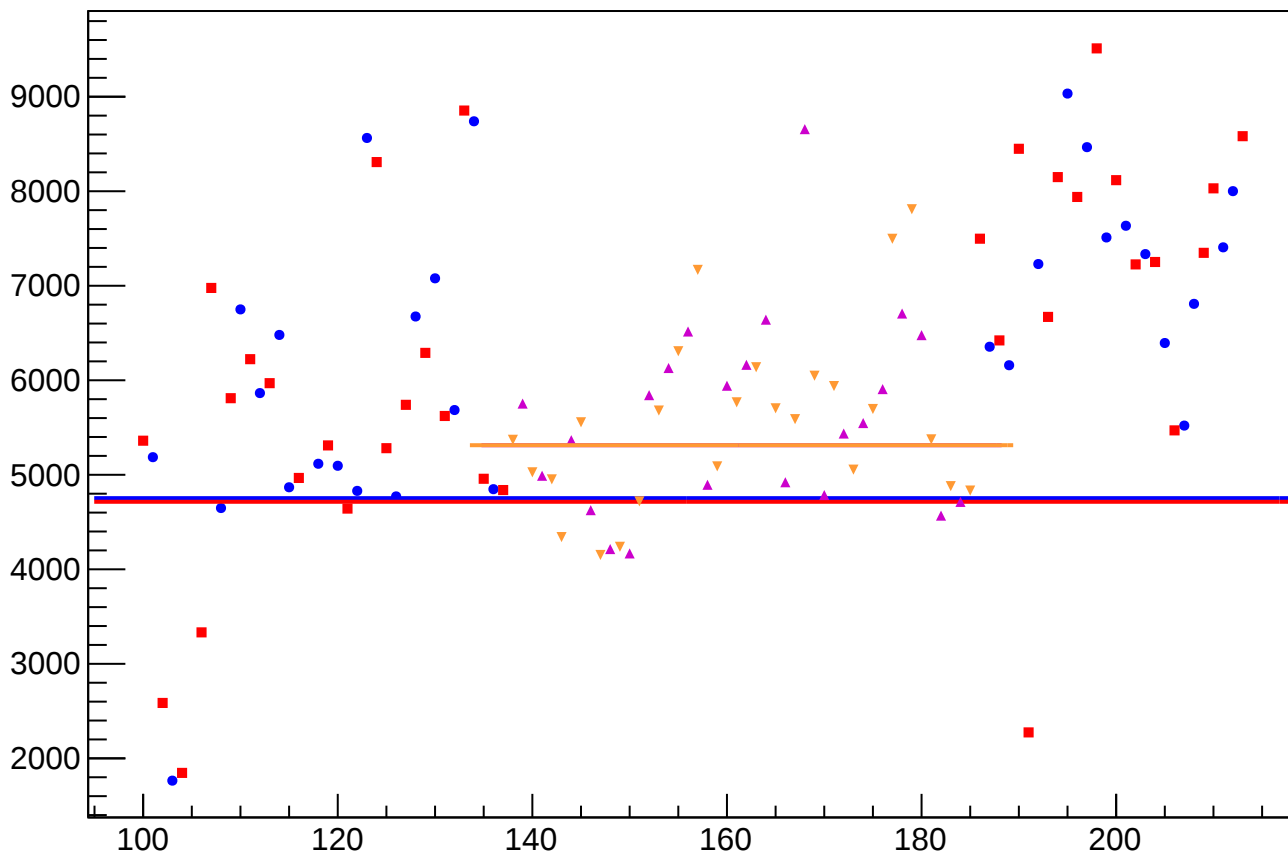
Right: 2822.580 $\pm$ 924.615 χ^2 /NDF: 63.1/63

In: 2380.673 $\pm$ 926.329 χ^2 /NDF: 44.5/52

Out: 2034.461 $\pm$ 899.952 χ^2 /NDF: 61.2/58

All: 2202.568 $\pm$ 645.486 χ^2 /NDF: 105.8/111

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4752.857 $\pm$ 0.939 χ^2 /NDF: 5942014.8/29

Left Out: 5313.008 $\pm$ 0.890 χ^2 /NDF: 894369.8/24

Right Out: 4714.573 $\pm$ 0.907 χ^2 /NDF: 6637021.9/33

Left In: 5312.861 $\pm$ 0.914 χ^2 /NDF: 957400.7/22

Left: 5312.937 $\pm$ 0.637 χ^2 /NDF: 1851770.5/47

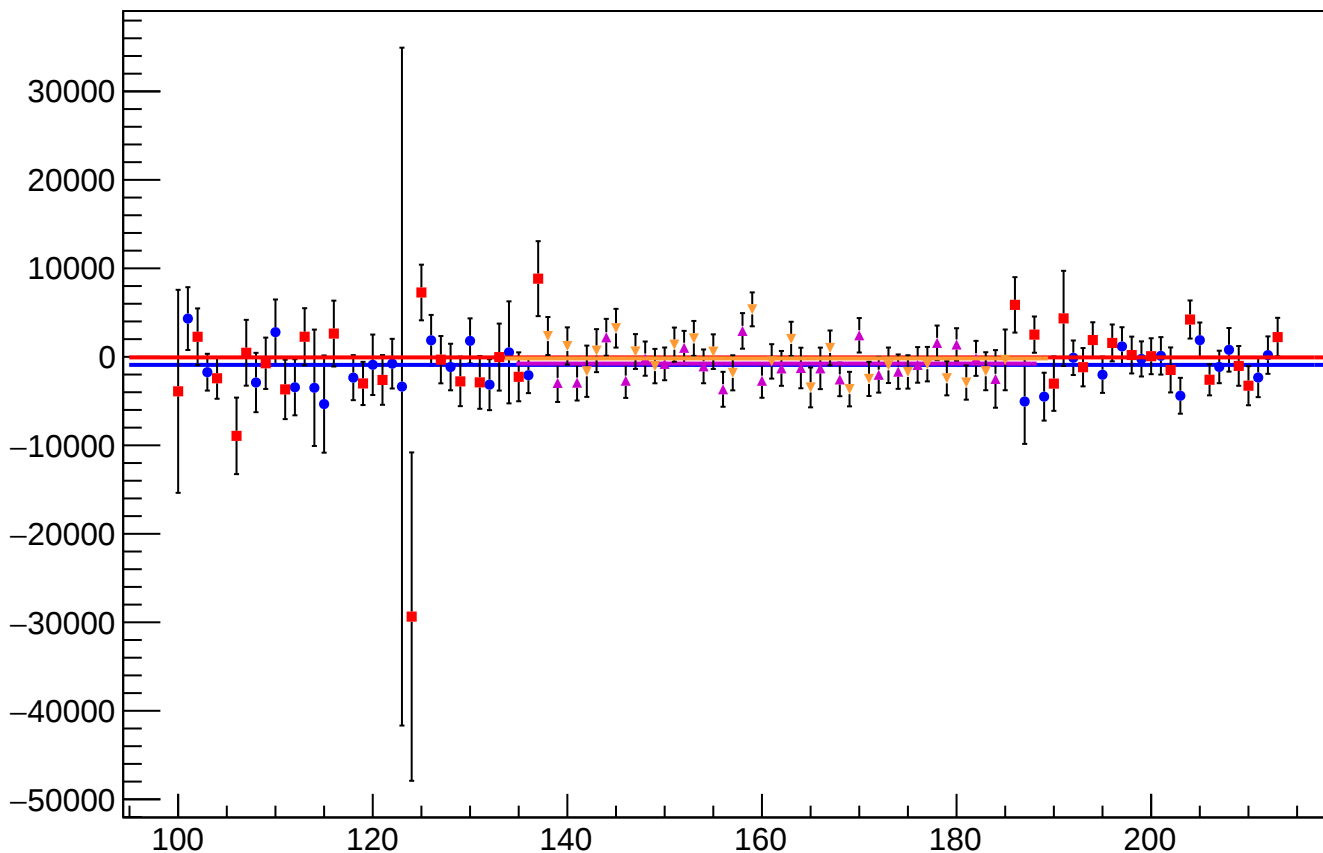
Right: 4733.036 $\pm$ 0.652 χ^2 /NDF: 12579896.7/63

In: 5040.581 $\pm$ 0.655 χ^2 /NDF: 7082011.7/52

Out: 5019.419 $\pm$ 0.635 χ^2 /NDF: 7753332.8/58

All: 5029.672 $\pm$ 0.456 χ^2 /NDF: 14835882.6/117

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -909.184 ± 468.025 $\chi^2/\text{NDF}: 18.9/29$

Left Out: -179.794 ± 410.976 $\chi^2/\text{NDF}: 29.3/24$

Right Out: -62.216 ± 457.462 $\chi^2/\text{NDF}: 43.6/33$

Left In: -759.753 ± 419.905 $\chi^2/\text{NDF}: 20.3/22$

Left: -463.542 ± 293.710 $\chi^2/\text{NDF}: 50.5/47$

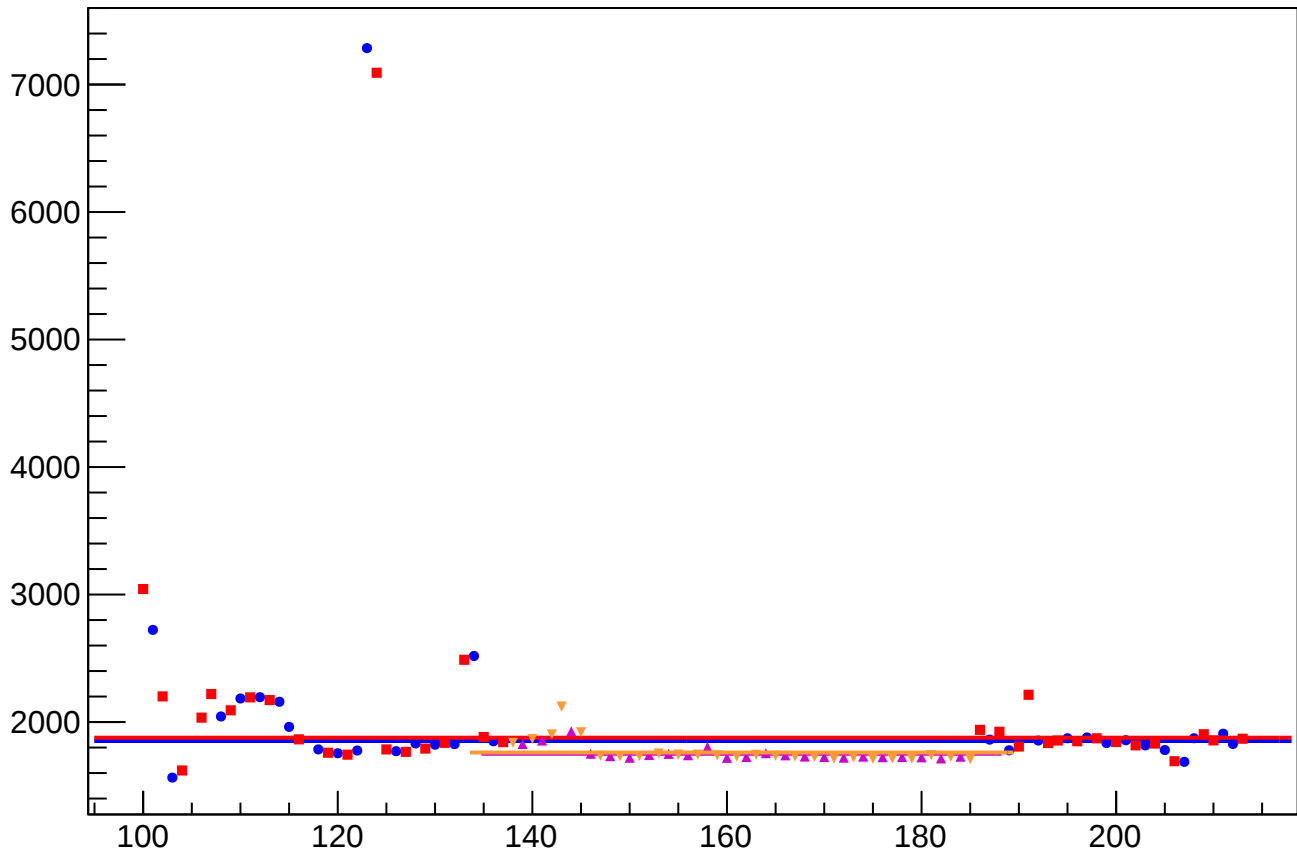
Right: -476.034 ± 327.145 $\chi^2/\text{NDF}: 64.1/63$

In: -826.394 ± 312.550 $\chi^2/\text{NDF}: 39.2/52$

Out: -127.280 ± 305.722 $\chi^2/\text{NDF}: 72.9/58$

All: -469.117 ± 218.552 $\chi^2/\text{NDF}: 114.6/111$

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.324+/-0.331 χ^2/NDF : 306569.0/29

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1877.175+/-0.323 χ^2/NDF : 394860.7/33

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

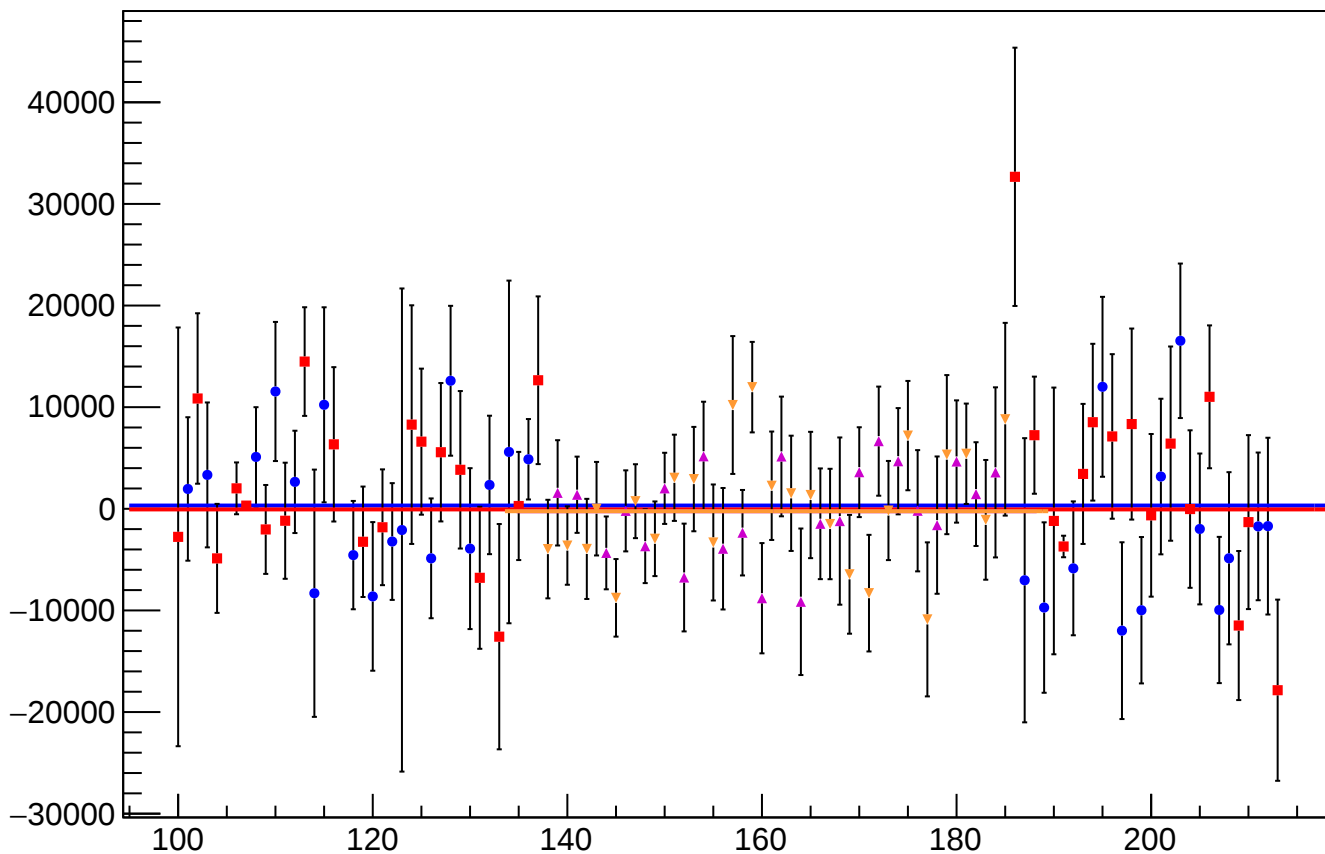
Right: 1864.553+/-0.231 χ^2/NDF : 704552.0/63

In: 1795.973+/-0.221 χ^2/NDF : 385639.2/52

Out: 1812.972+/-0.216 χ^2/NDF : 543643.9/58

All: 1804.662+/-0.155 χ^2/NDF : 932307.4/111

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 319.755 $\pm$ 1287.291 χ^2 /NDF: 29.4/29

Left Out: -235.806 $\pm$ 1005.144 χ^2 /NDF:28.9/24

Right Out: -60.776 $\pm$ 409.550 χ^2 /NDF: 52.0/33

Left In: -239.224 $\pm$ 1028.883 χ^2 /NDF:15.3/22

Left: -237.475 $\pm$ 718.990 χ^2 /NDF: 44.2/47

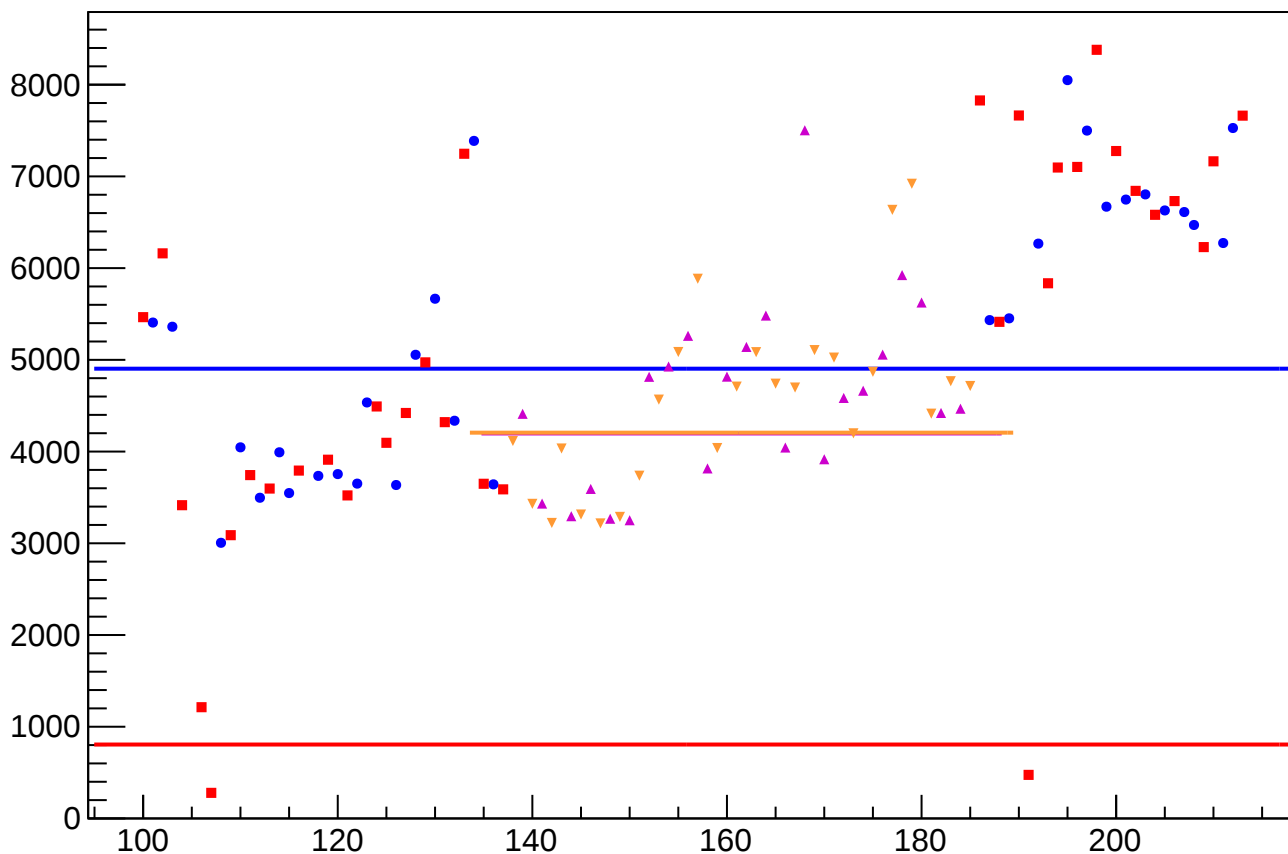
Right: -25.799 $\pm$ 390.275 χ^2 /NDF: 81.5/63

In: -21.331 $\pm$ 803.712 χ^2 /NDF:44.9/52

Out: -85.697 $\pm$ 379.275 χ^2 /NDF:80.9/58

All: -73.974 $\pm$ 343.001 χ^2 /NDF: 125.8/111

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4903.560+/-0.910

χ^2/NDF : 2602683.8/29

Left Out: 4206.076+/-0.711

χ^2/NDF :1442269.3/24

Right Out: 805.996+/-0.290

χ^2/NDF : 26160935.1/33

Left In: 4197.267+/-0.728

χ^2/NDF :1471012.9/22

Left: 4201.775+/-0.508 χ^2/NDF : 2913357.2/47

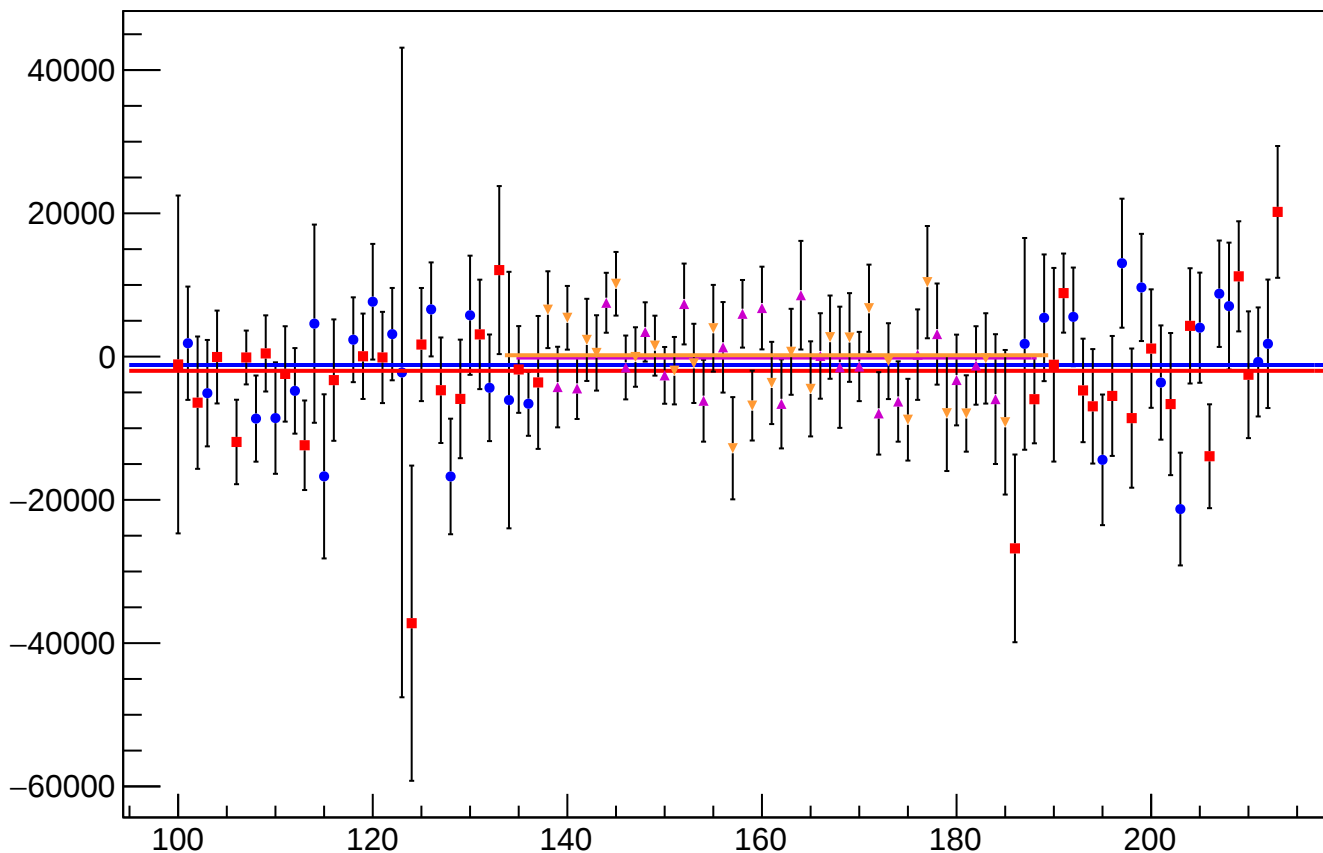
Right: 1182.625+/-0.276 χ^2/NDF : 47165157.2/63

In: 4472.584+/-0.568 χ^2/NDF :4441075.3/52

Out: 1290.104+/-0.268 χ^2/NDF :47229856.9/58

All: 1869.741+/-0.243 χ^2/NDF : 77318291.1/131

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1172.093 ± 1411.863 χ^2/NDF : 32.9/29

Left Out: 189.721 ± 1106.851 χ^2/NDF : 25.0/24

Right Out: -1986.160 ± 1257.351 χ^2/NDF : 33.1/33

Left In: -137.477 ± 1129.656 χ^2/NDF : 18.6/22

Left: 29.458 ± 790.601 χ^2/NDF : 43.6/47

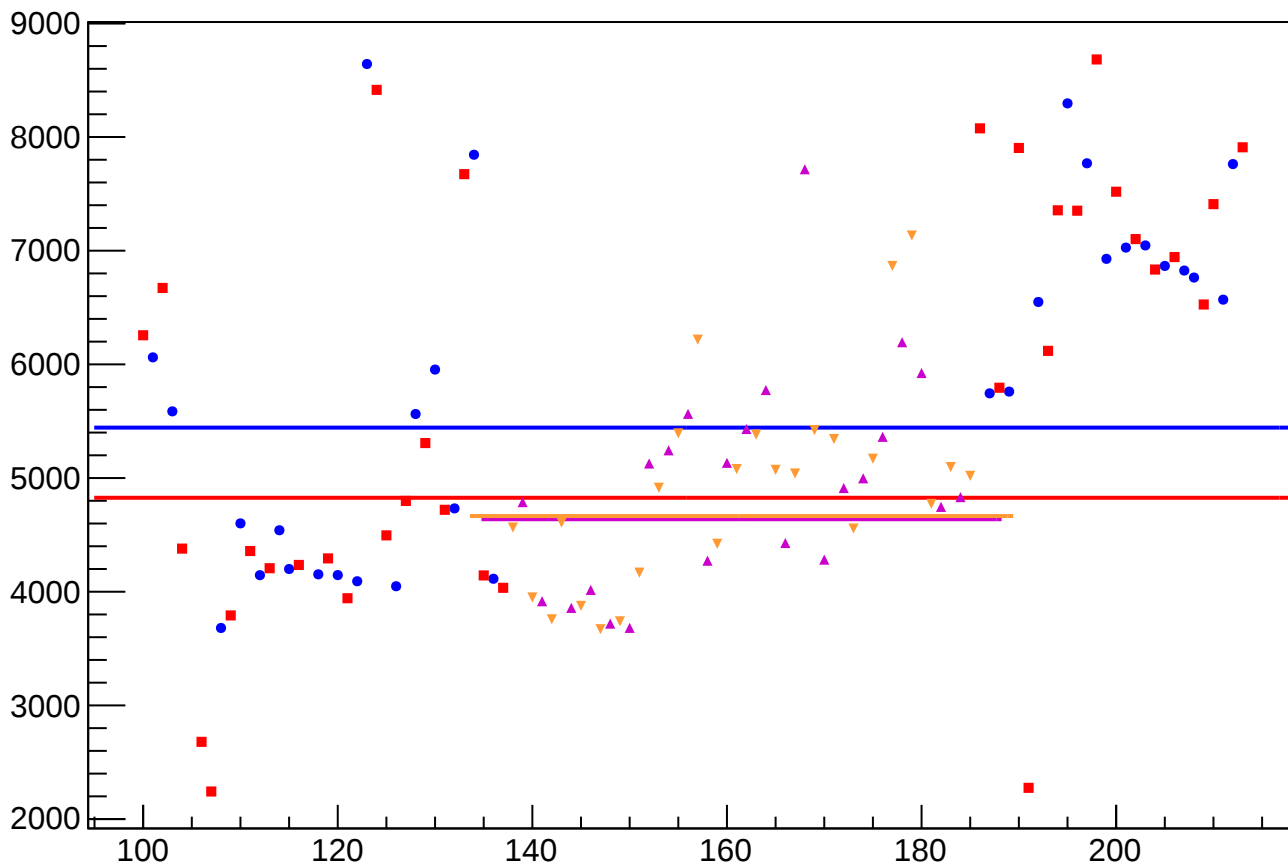
Right: -1626.093 ± 938.975 χ^2/NDF : 66.2/63

In: -541.302 ± 882.063 χ^2/NDF : 51.8/52

Out: -760.267 ± 830.803 χ^2/NDF : 59.8/58

All: -657.332 ± 604.776 χ^2/NDF : 111.6/111

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5443.582 $\pm$ 0.998 χ^2 /NDF: 1892046.2/29

Left Out: 4665.620 $\pm$ 0.783 χ^2 /NDF: 1017235.0/24

Right Out: 4826.521 $\pm$ 0.885 χ^2 /NDF: 4316723.2/33

Left In: 4637.777 $\pm$ 0.799 χ^2 /NDF: 1065217.2/22

Left: 4651.983 $\pm$ 0.559 χ^2 /NDF: 2083072.1/47

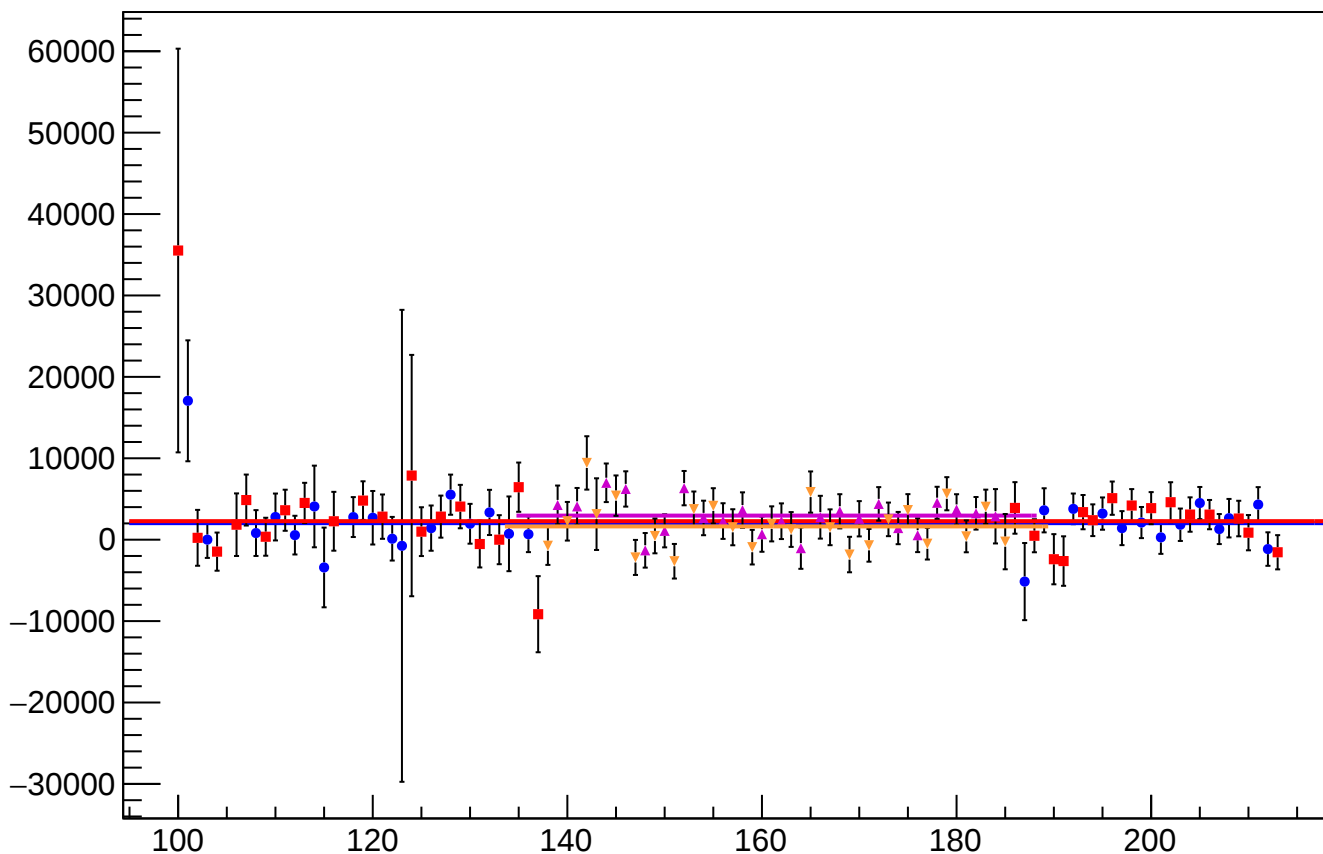
Right: 5098.205 $\pm$ 0.662 χ^2 /NDF: 6422598.2/63

In: 4952.294 $\pm$ 0.624 χ^2 /NDF: 3354465.2/52

Out: 4736.194 $\pm$ 0.586 χ^2 /NDF: 5352495.9/58

All: 4837.590 $\pm$ 0.427 χ^2 /NDF: 8770679.8/11

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2031.143+/-453.340 χ^2/NDF : 20.4/29

Left Out: 1630.035+/-447.063 χ^2/NDF :35.4/24

Right Out: 2276.525+/-435.968 χ^2/NDF : 33.3/33

Left In: 2958.620+/-453.688 χ^2/NDF :20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

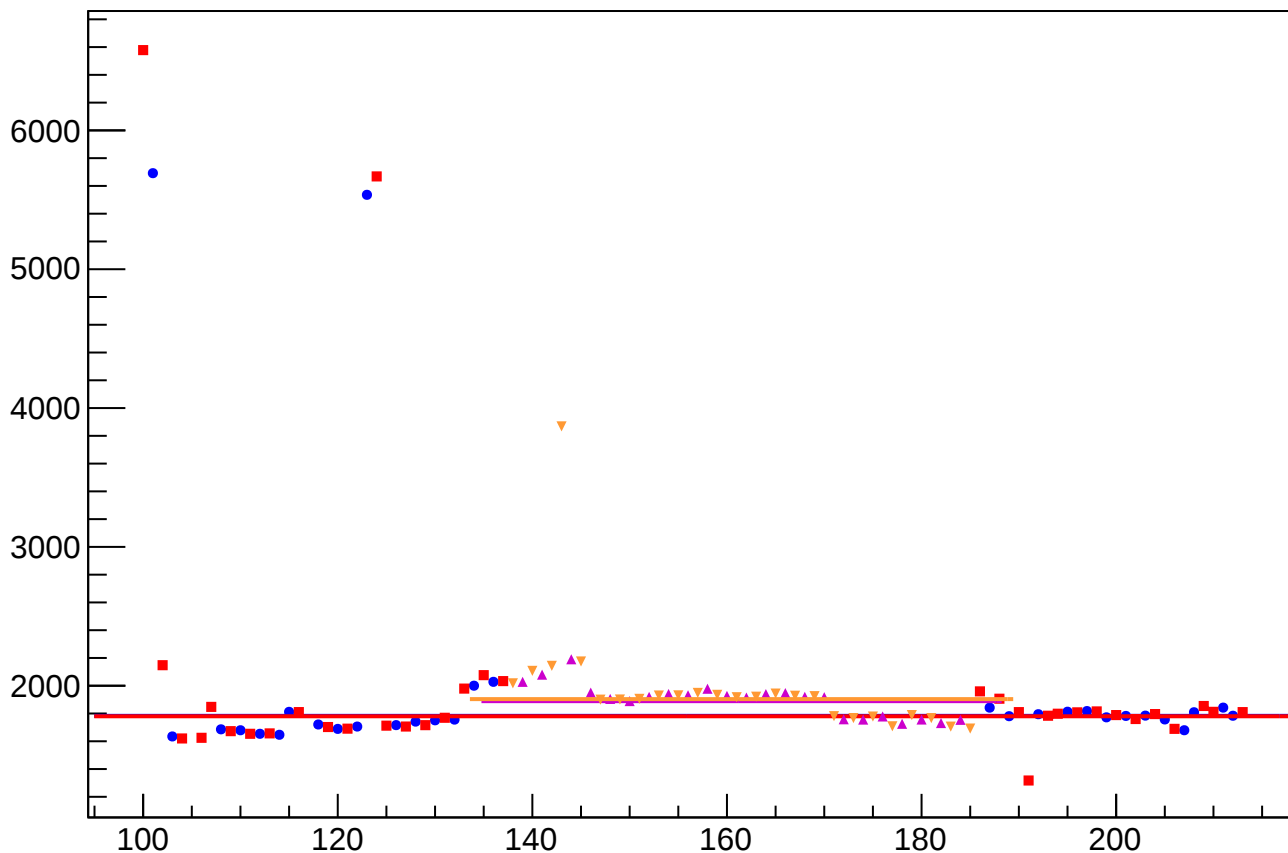
Right: 2158.626+/-314.238 χ^2/NDF : 53.8/63

In: 2494.526+/-320.683 χ^2/NDF :42.9/52

Out: 1961.402+/-312.125 χ^2/NDF :69.8/58

All: 2220.755+/-223.670 χ^2/NDF : 114.1/111

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1783.077+/-0.321 χ^2/NDF : 654507.7/29

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1779.999+/-0.307 χ^2/NDF : 377059.5/33

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

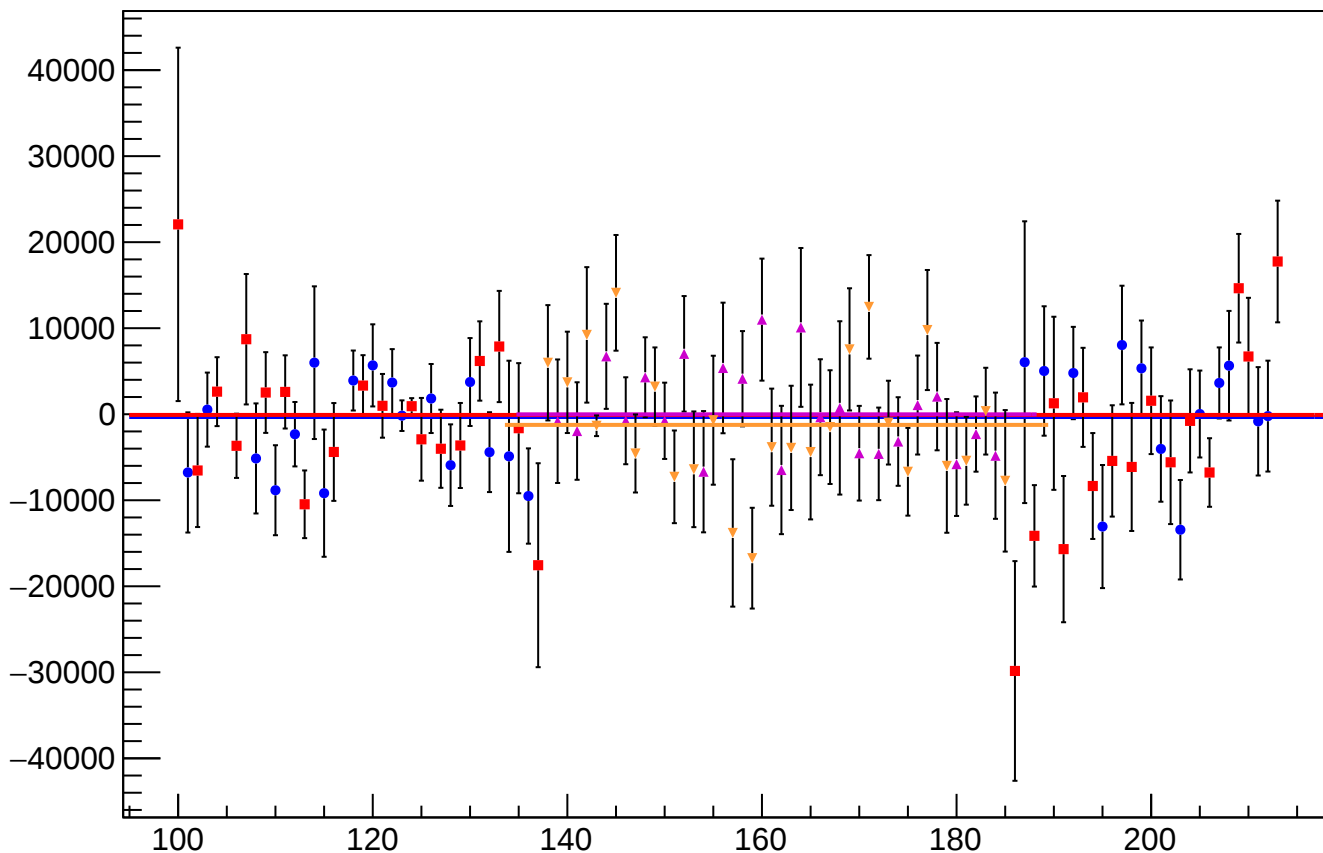
Right: 1781.474+/-0.222 χ^2/NDF : 1031615.2/63

In: 1835.961+/-0.227 χ^2/NDF : 835400.1/52

Out: 1840.083+/-0.220 χ^2/NDF : 997230.1/58

All: 1838.081+/-0.158 χ^2/NDF : 1832800.1/111

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -322.998 ± 865.248 χ^2/NDF : 31.0/29

Left Out: -1239.833 ± 865.201 χ^2/NDF : 33.9/24

Right Out: -81.532 ± 665.517 χ^2/NDF : 56.6/33

Left In: -15.863 ± 1243.317 χ^2/NDF : 13.2/22

Left: -840.501 ± 710.172 χ^2/NDF : 47.8/47

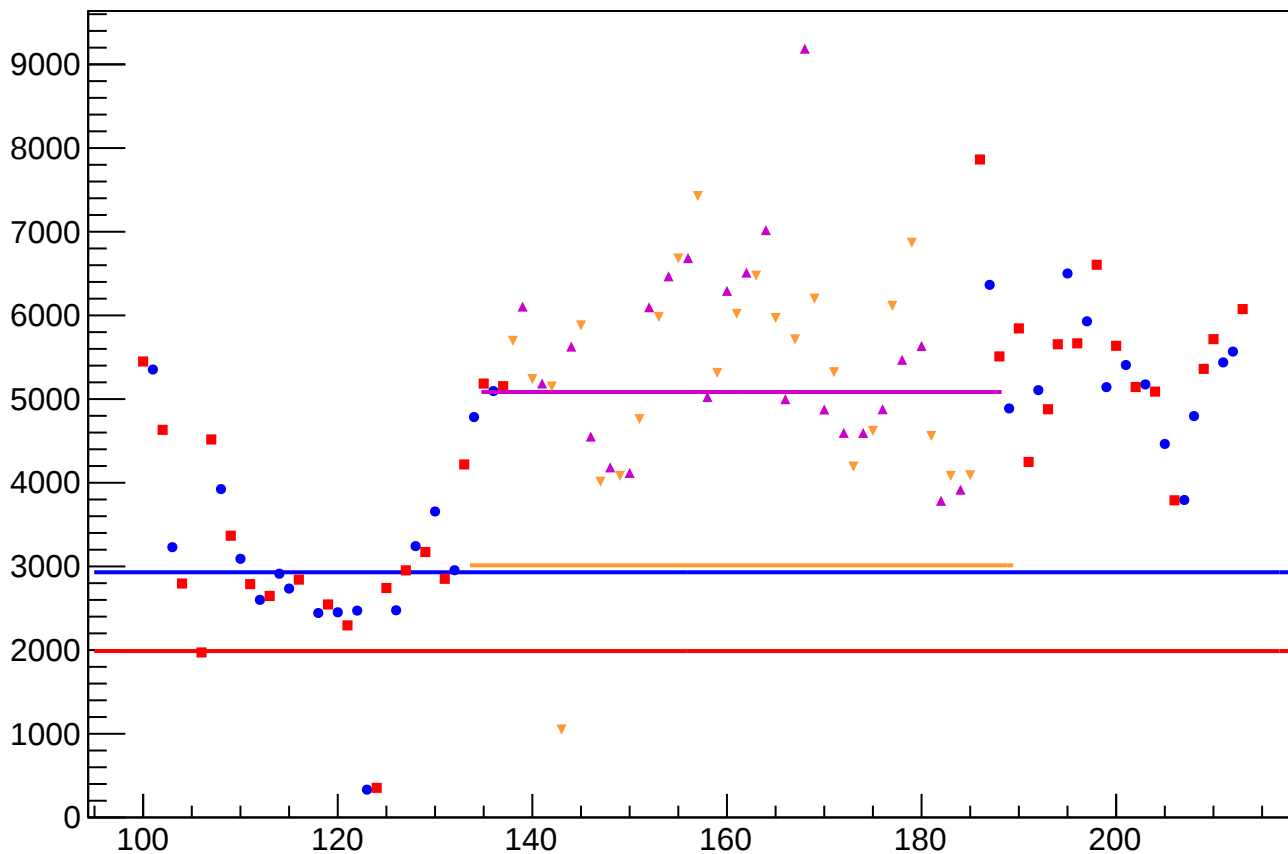
Right: -171.286 ± 527.522 χ^2/NDF : 87.6/63

In: -222.785 ± 710.198 χ^2/NDF : 44.3/52

Out: -512.109 ± 527.511 χ^2/NDF : 91.6/58

All: -409.240 ± 423.475 χ^2/NDF : 136.0/111

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2930.329 $\pm$ 0.612

χ^2 /NDF: 8578920.8/29

Left Out: 3013.268 $\pm$ 0.612

χ^2 /NDF: 12270753.9/24

Right Out: 1988.704 $\pm$ 0.471

χ^2 /NDF: 16325720.6/33

Left In: 5084.645 $\pm$ 0.879

χ^2 /NDF: 1303587.7/22

Left: 3689.075 $\pm$ 0.502

χ^2 /NDF: 17314385.8/47

Right: 2338.712 $\pm$ 0.373

χ^2 /NDF: 26392863.4/63

In: 3633.246 $\pm$ 0.502

χ^2 /NDF: 13927916.8/52

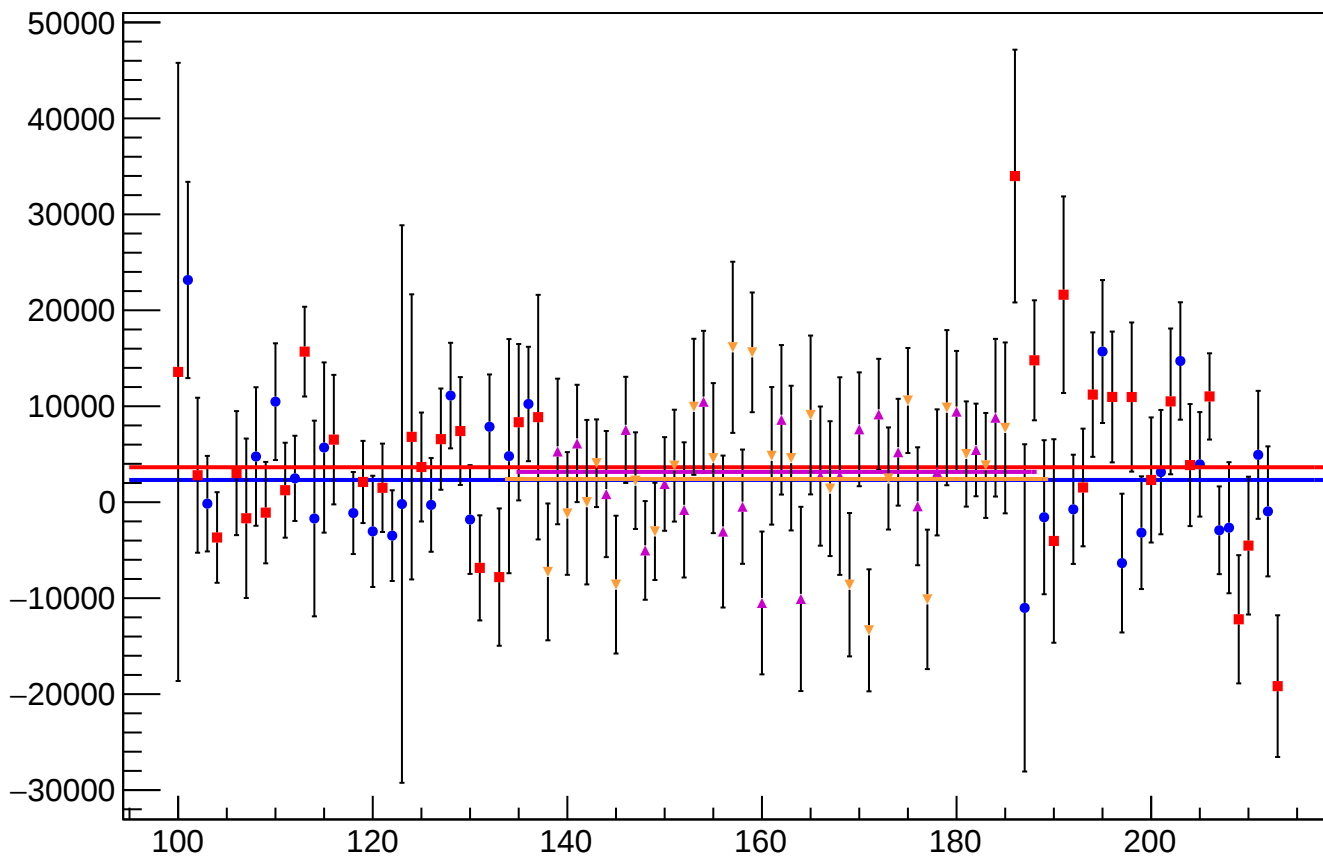
Out: 2369.567 $\pm$ 0.373

χ^2 /NDF: 30358529.8/58

All: 2818.863 $\pm$ 0.299

χ^2 /NDF: 48367164.3/100

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2318.048+/-1126.527 χ^2/NDF : 29.0/29

Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24

Right Out: 3643.585+/-1093.497 χ^2/NDF : 54.3/33

Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47

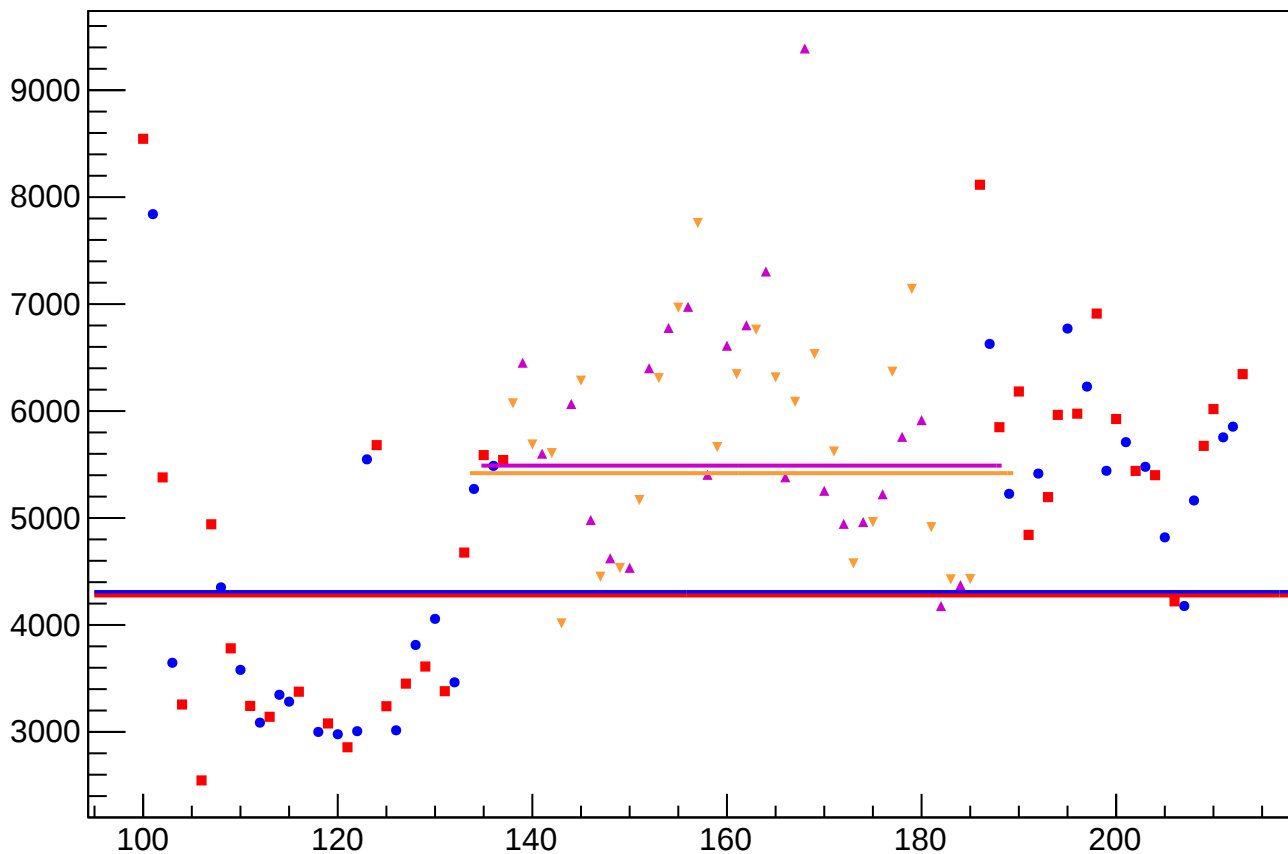
Right: 3000.534+/-784.636 χ^2/NDF : 84.0/63

In: 2664.778+/-861.593 χ^2/NDF : 44.7/52

Out: 3129.191+/-833.182 χ^2/NDF : 84.7/58

All: 2904.767+/-598.941 χ^2/NDF : 129.5/111

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4307.577+/-0.797

χ^2/NDF : 2234300.8/29

Left Out: 5419.305+/-0.910

χ^2/NDF :1109972.1/24

Right Out: 4275.676+/-0.766

χ^2/NDF : 2810606.5/33

Left In: 5489.885+/-0.946

χ^2/NDF :1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

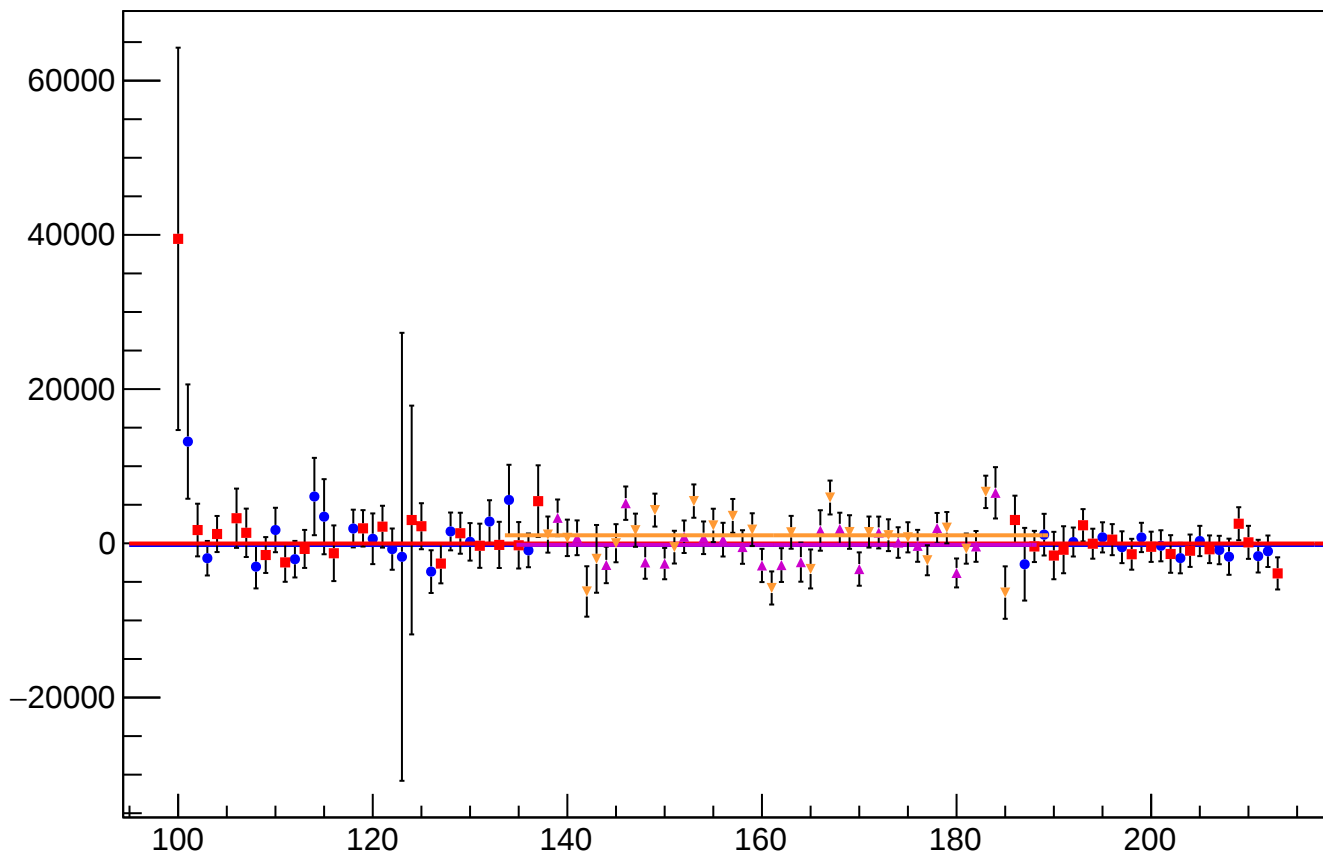
Right: 4291.011+/-0.552 χ^2/NDF : 5045740.2/63

In: 4798.287+/-0.609 χ^2/NDF :4212990.9/52

Out: 4750.442+/-0.586 χ^2/NDF :4844947.2/58

All: 4773.439+/-0.422 χ^2/NDF : 9061141.1/11

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -218.978+/-450.967 χ^2/NDF : 17.0/29

Left Out: 1041.262+/-446.249 χ^2/NDF :48.6/24

Right Out: -25.219+/-433.627 χ^2/NDF : 18.9/33

Left In: -191.966+/-453.055 χ^2/NDF :30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

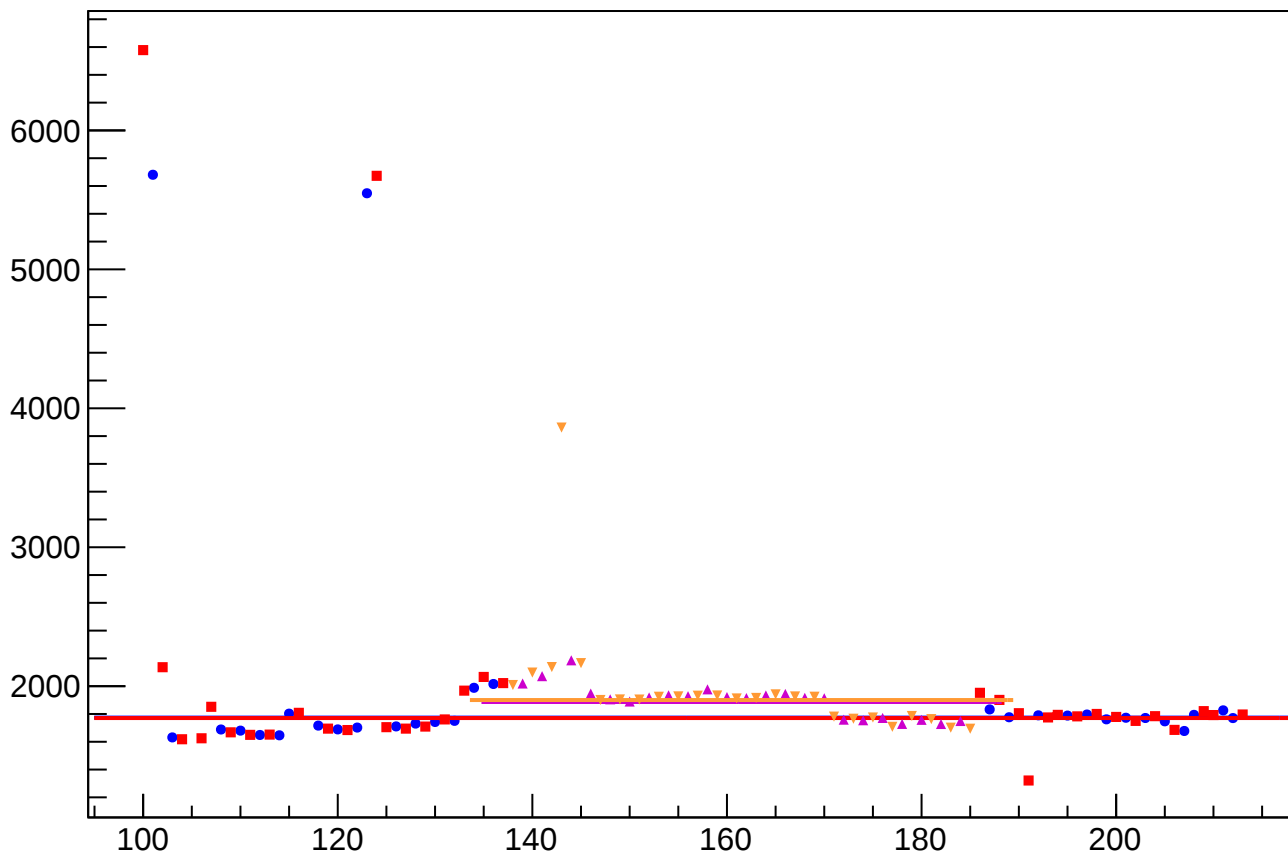
Right: -118.302+/-312.571 χ^2/NDF : 36.1/63

In: -205.535+/-319.617 χ^2/NDF :47.0/52

Out: 492.725+/-310.987 χ^2/NDF :70.4/58

All: 153.150+/-222.890 χ^2/NDF : 119.9/111

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1773.888+/-0.319 χ^2/NDF : 651135.0/29

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1770.716+/-0.306 χ^2/NDF : 371578.5/33

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

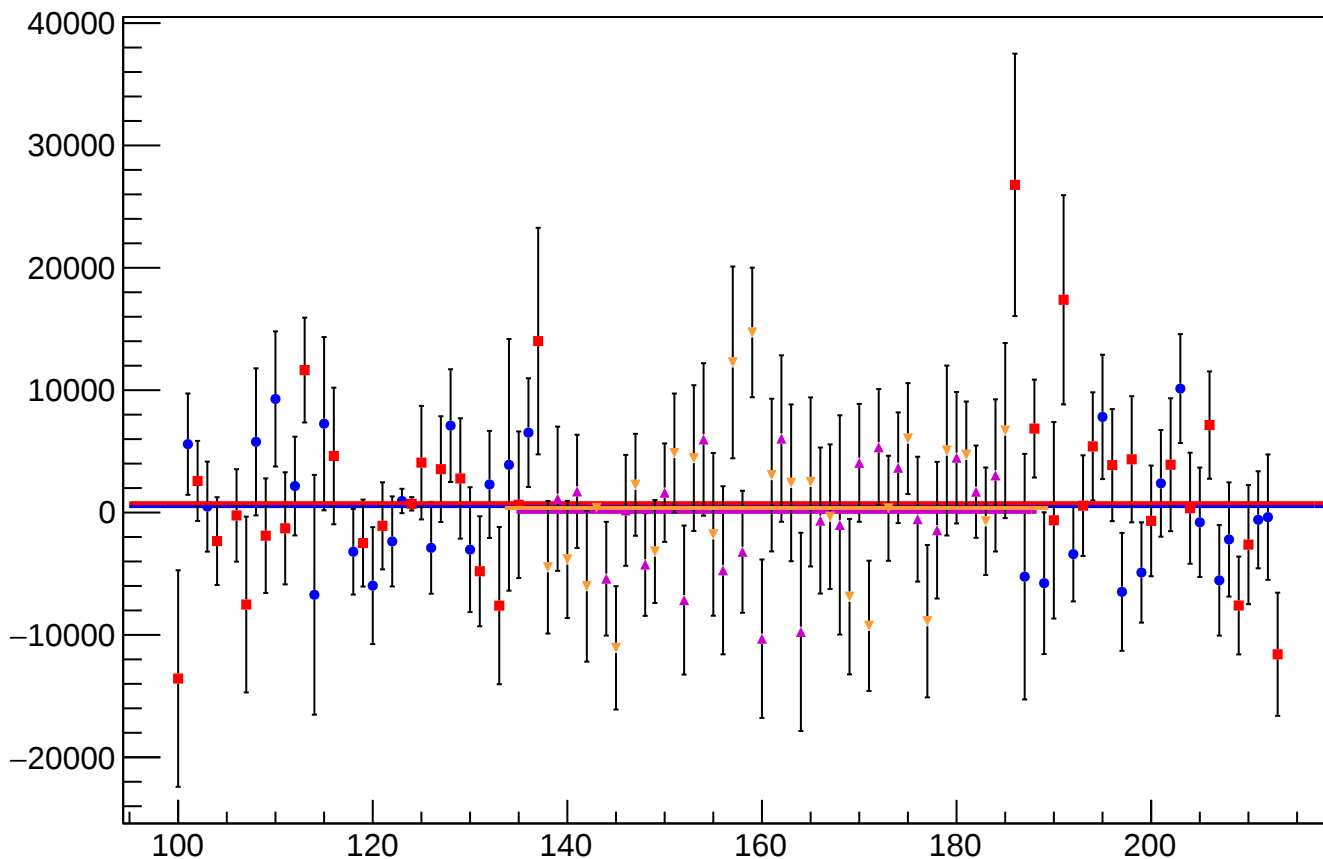
Right: 1772.235+/-0.221 χ^2/NDF : 1022765.1/63

In: 1829.873+/-0.226 χ^2/NDF : 836589.4/52

Out: 1833.467+/-0.220 χ^2/NDF : 996439.6/58

All: 1831.722+/-0.157 χ^2/NDF : 1833159.1/11

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 526.460+/-650.967 χ^2/NDF : 31.3/29

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 766.507+/-455.587 χ^2/NDF : 47.5/33

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

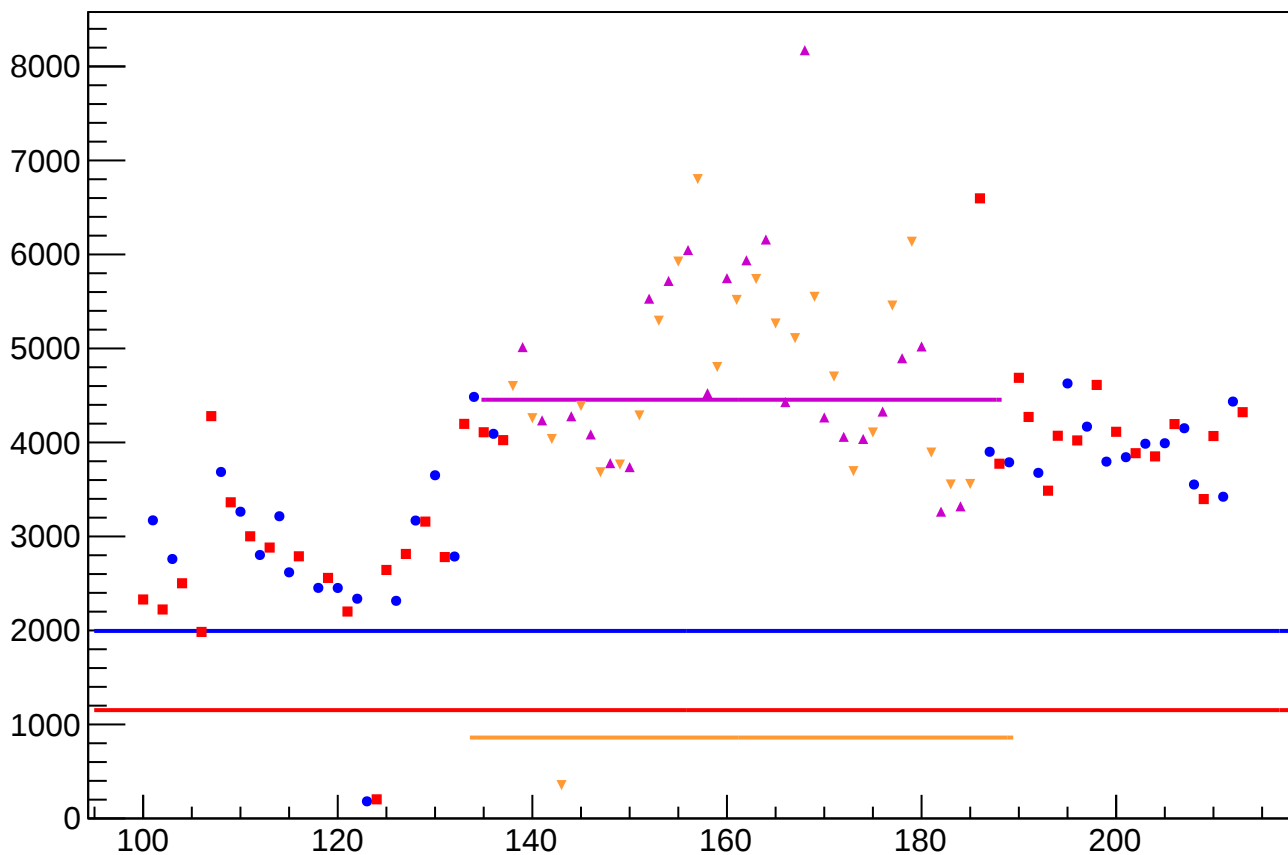
Right: 687.586+/-373.256 χ^2/NDF : 78.9/63

In: 401.994+/-558.870 χ^2/NDF :45.9/52

Out: 535.645+/-292.751 χ^2/NDF :78.8/58

All: 506.868+/-259.326 χ^2/NDF : 124.8/111

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1994.966 $\pm$ 0.460 χ^2 /NDF: 12848917.3/29

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 1152.379 $\pm$ 0.322 χ^2 /NDF: 21394274.4/33

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

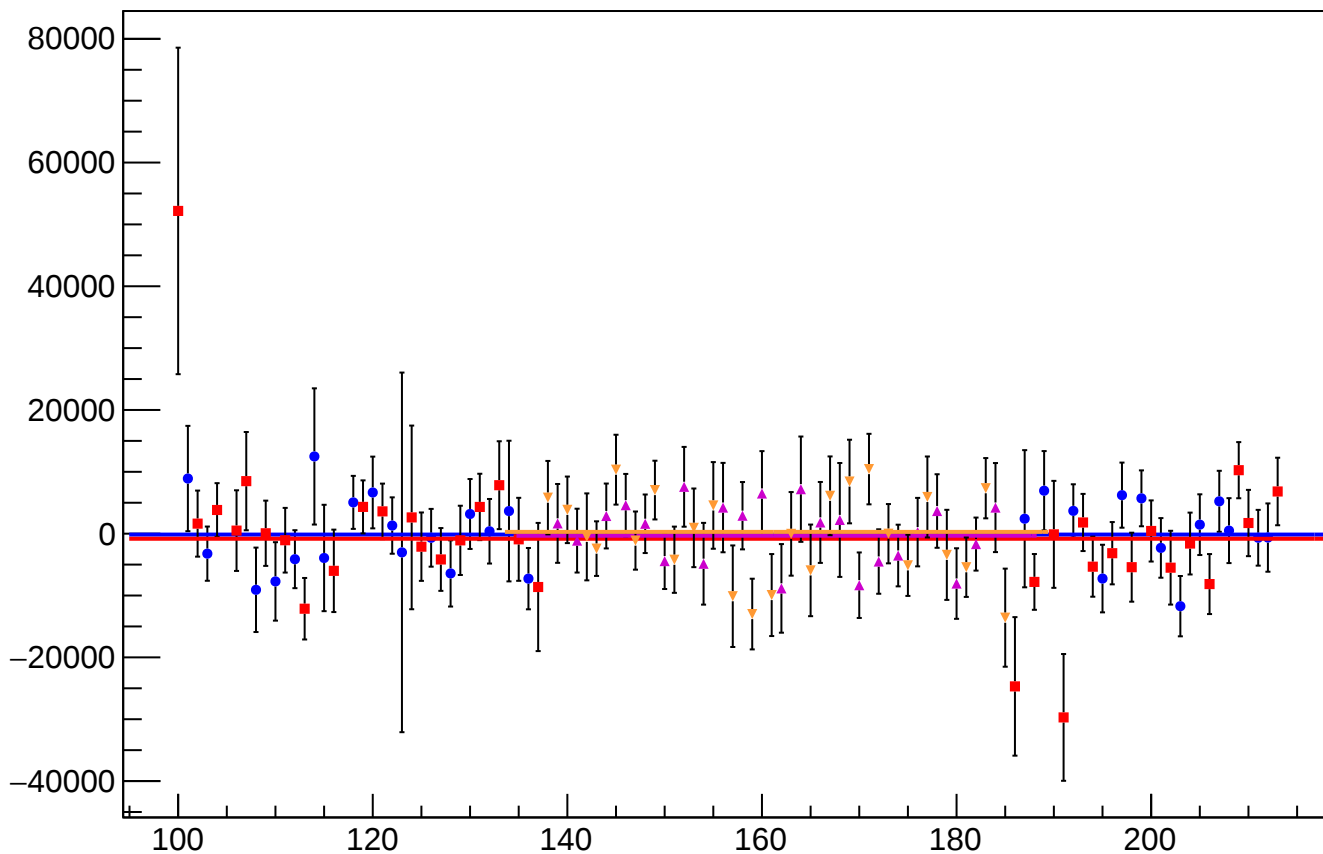
Right: 1429.397 $\pm$ 0.264 χ^2 /NDF: 36492303.8/63

In: 2641.651 $\pm$ 0.395 χ^2 /NDF: 21705221.5/52

Out: 981.046 $\pm$ 0.207 χ^2 /NDF: 48216177.9/58

All: 1338.596 $\pm$ 0.183 χ^2 /NDF: 83777410.6/112

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -147.854 $\pm$ 999.378 χ^2 /NDF: 28.0/29

Left Out: 288.508 $\pm$ 1155.419 χ^2 /NDF:32.4/24

Right Out: -821.753 $\pm$ 965.897 χ^2 /NDF: 46.7/33

Left In: -332.488 $\pm$ 1196.011 χ^2 /NDF:14.7/22

Left: -11.273 $\pm$ 830.984 χ^2 /NDF: 47.2/47

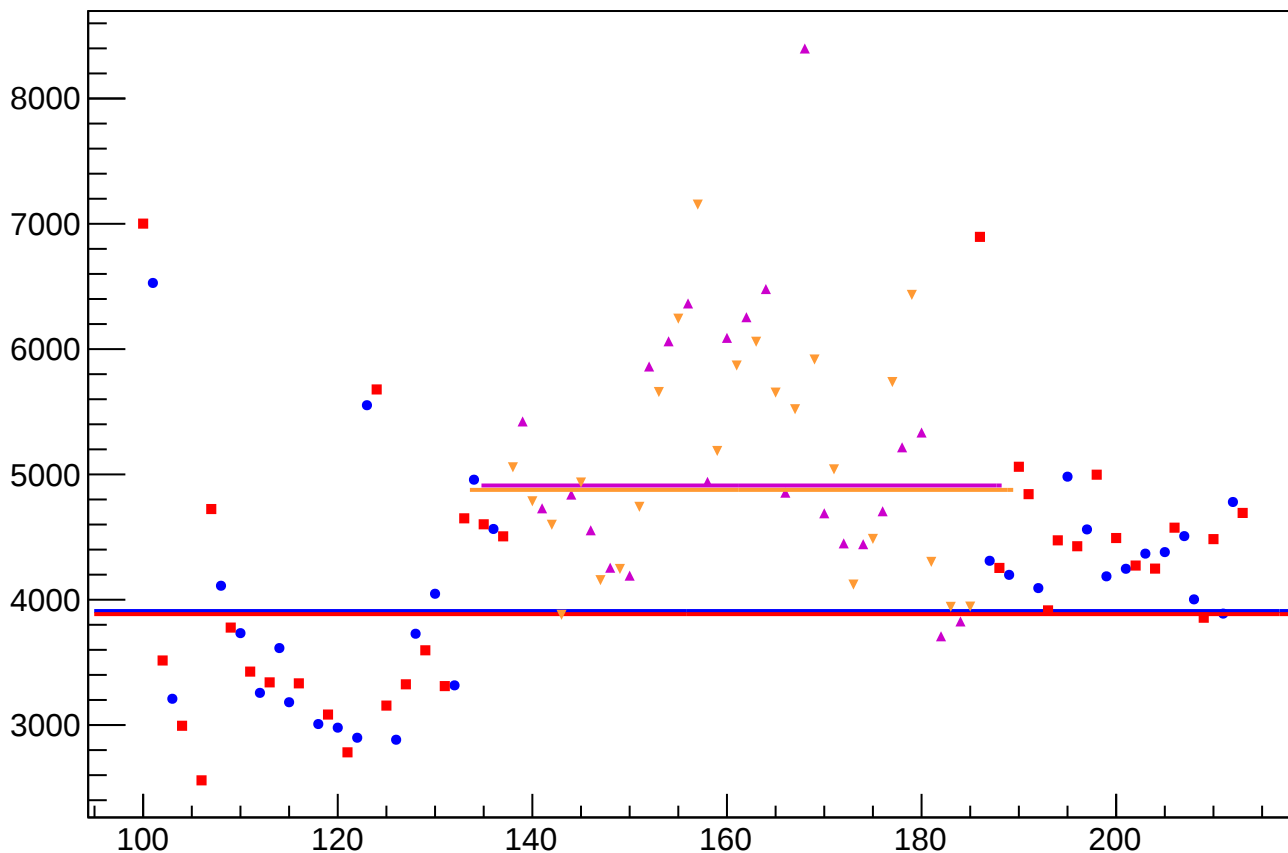
Right: -496.281 $\pm$ 694.527 χ^2 /NDF: 74.9/63

In: -223.765 $\pm$ 766.891 χ^2 /NDF:42.6/52

Out: -365.029 $\pm$ 741.060 χ^2 /NDF:79.6/58

All: -296.816 $\pm$ 532.907 χ^2 /NDF: 122.3/111

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3909.674+/-0.707 χ^2/NDF : 971812.7/29

Left Out: 4876.564+/-0.817 χ^2/NDF : 972528.1/24

Right Out: 3885.003+/-0.678 χ^2/NDF : 1196926.8/33

Left In: 4911.546+/-0.846 χ^2/NDF : 1043164.6/22

Left: 4893.451+/-0.588 χ^2/NDF : 2016577.8/47

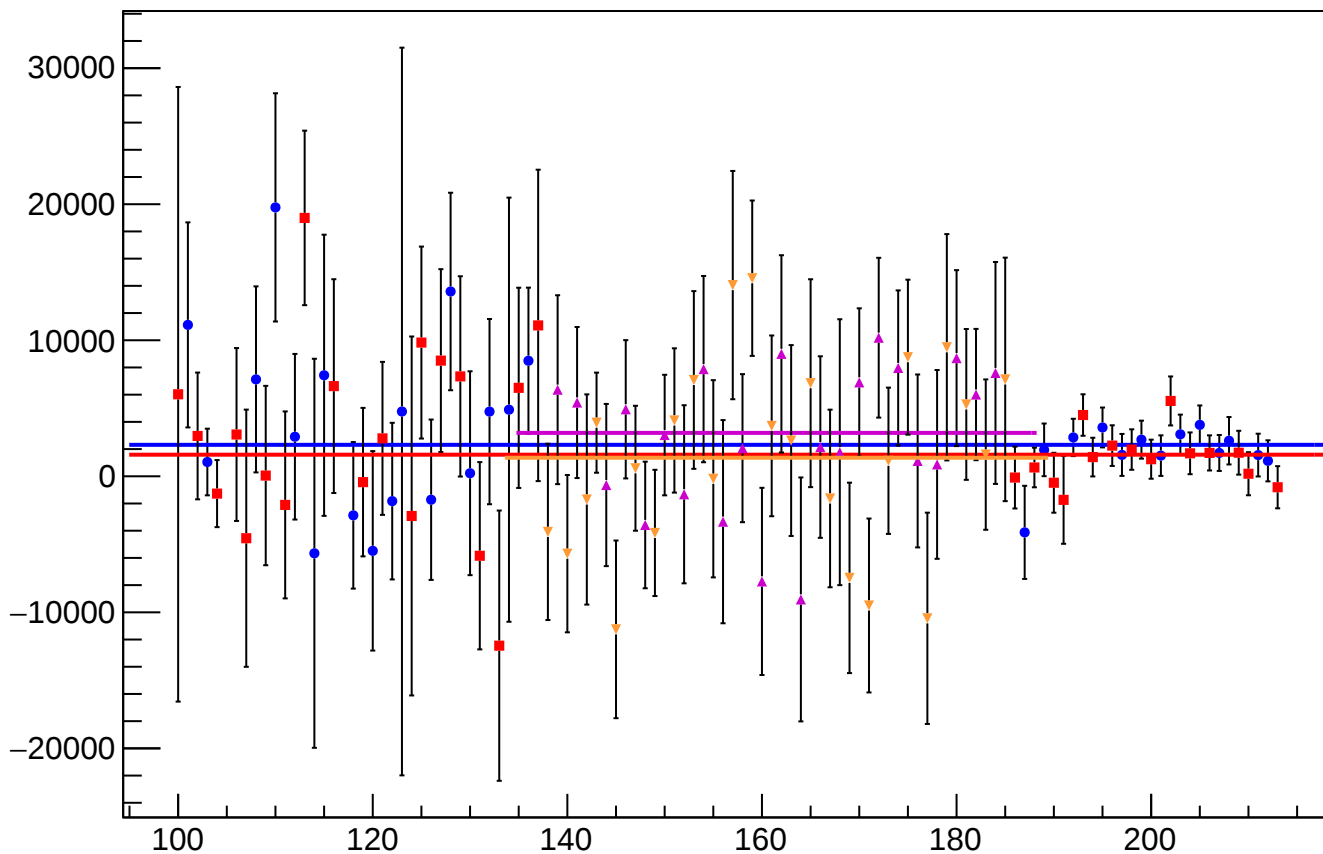
Right: 3896.833+/-0.489 χ^2/NDF : 2169373.9/63

In: 4321.589+/-0.542 χ^2/NDF : 2841381.3/52

Out: 4289.579+/-0.522 χ^2/NDF : 3041416.5/58

All: 4304.970+/-0.376 χ^2/NDF : 5884606.8/111

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2313.221+/-411.040 χ^2/NDF : 21.5/29

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1587.829+/-397.373 χ^2/NDF : 32.6/33

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

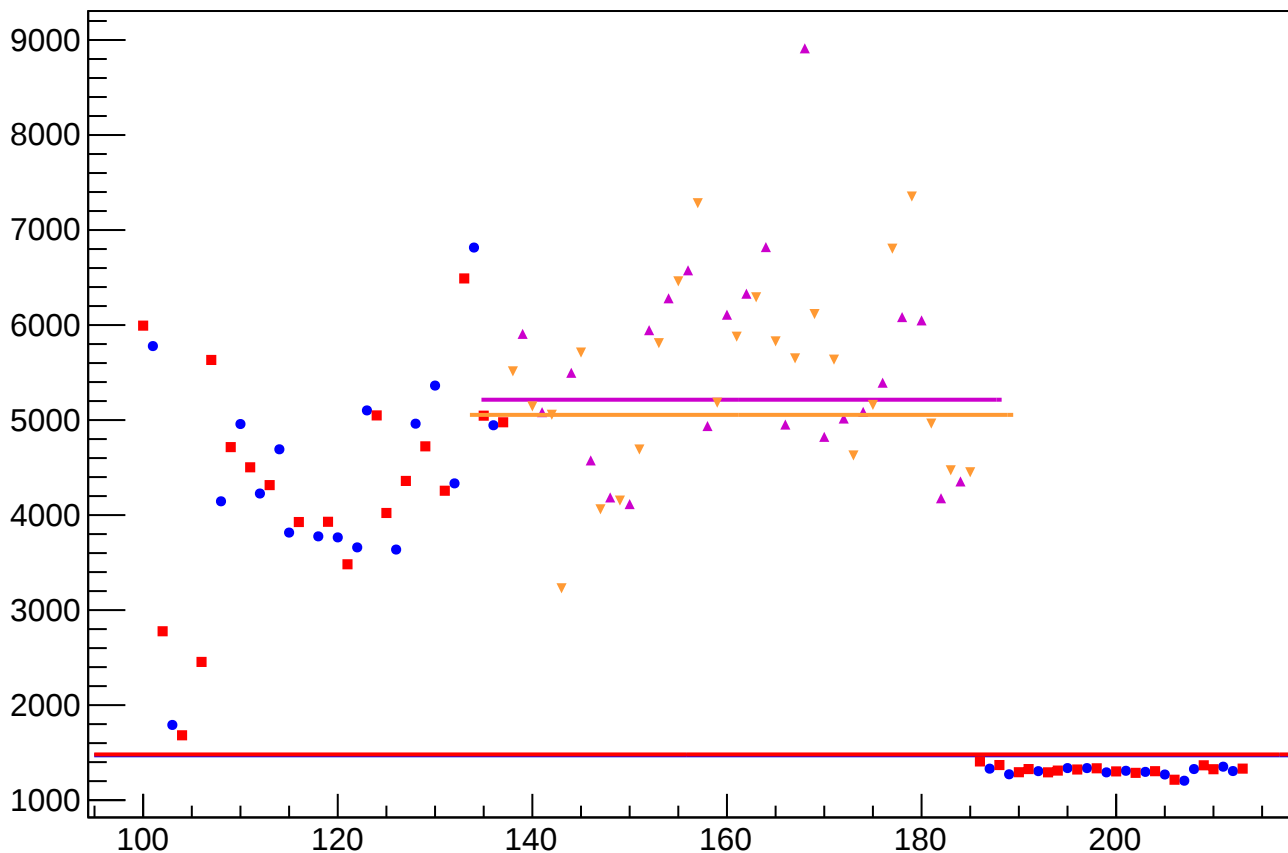
Right: 1938.265+/-285.695 χ^2/NDF : 55.7/63

In: 2396.464+/-391.068 χ^2/NDF : 36.0/52

Out: 1566.023+/-377.422 χ^2/NDF : 60.6/58

All: 1966.501+/-271.574 χ^2/NDF : 98.9/111

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1471.816+/-0.291 χ^2/NDF : 5879430.8/29

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 1480.836+/-0.281 χ^2/NDF : 5805005.2/33

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

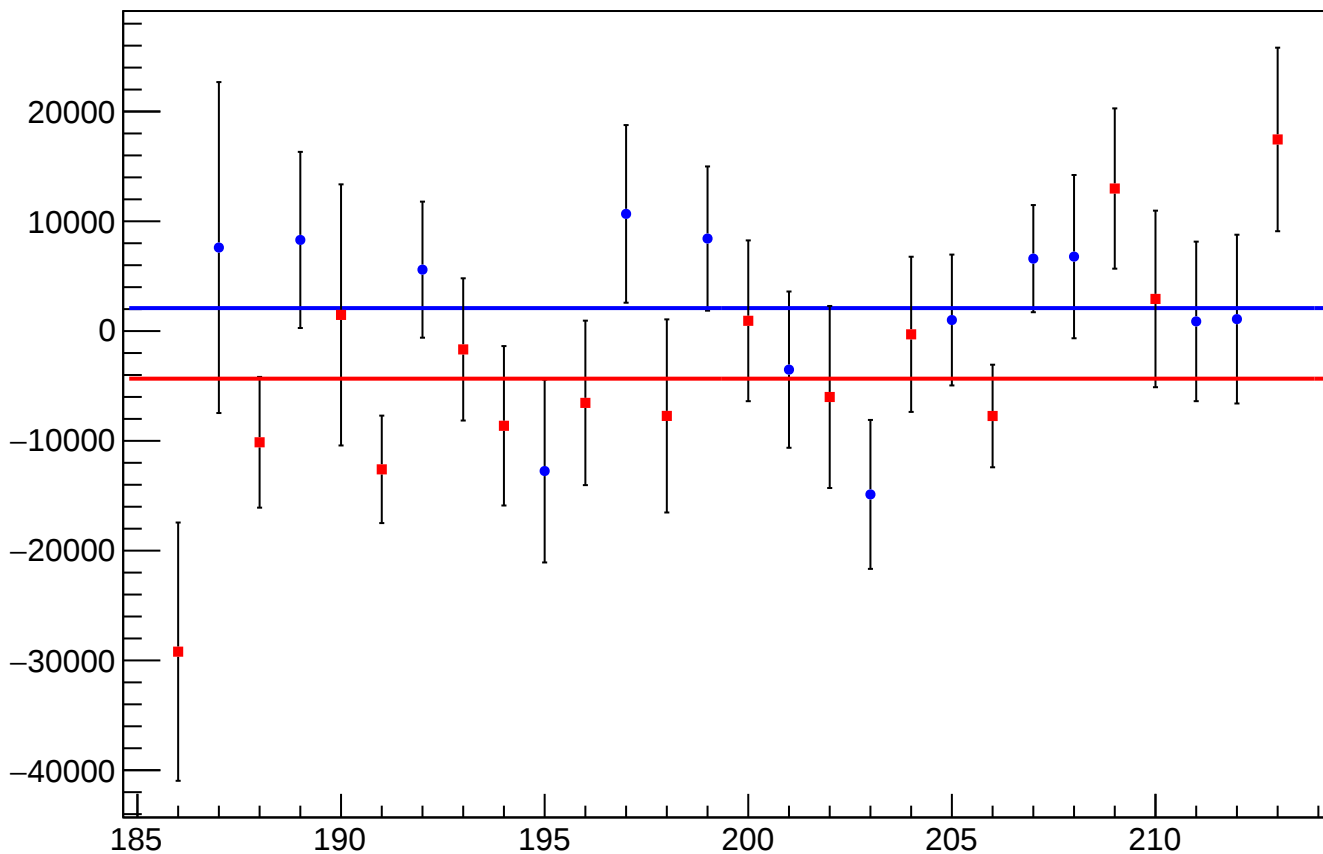
Right: 1476.482+/-0.202 χ^2/NDF : 11684934.3/63

In: 1826.646+/-0.277 χ^2/NDF : 22650866.4/52

Out: 1830.220+/-0.267 χ^2/NDF : 23081791.4/58

All: 1828.498+/-0.192 χ^2/NDF : 45732744.3/110

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 2092.556 $\pm$ 1944.734 χ^2 /NDF: 14.5/12

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: -4335.197 $\pm$ 1809.645 χ^2 /NDF: 23.9/14

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

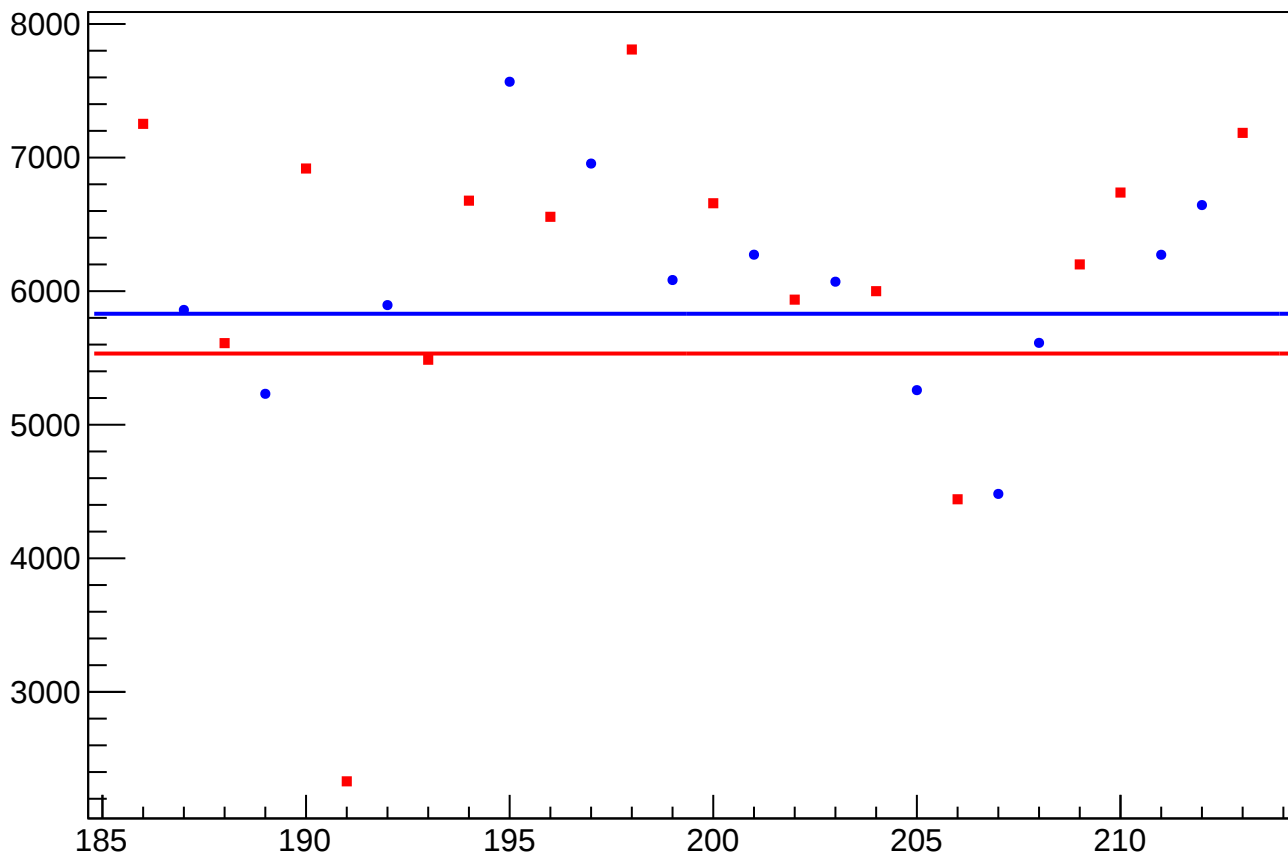
Right: -1352.303 $\pm$ 1324.798 χ^2 /NDF: 44.3/27

In: 2092.556 $\pm$ 1944.734 χ^2 /NDF:14.5/12

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: -1352.303 $\pm$ 1324.798 χ^2 /NDF: 44.3/27

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5830.788+/-1.375 χ^2/NDF : 352789.6/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5532.989+/-1.280 χ^2/NDF : 1457186.1/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

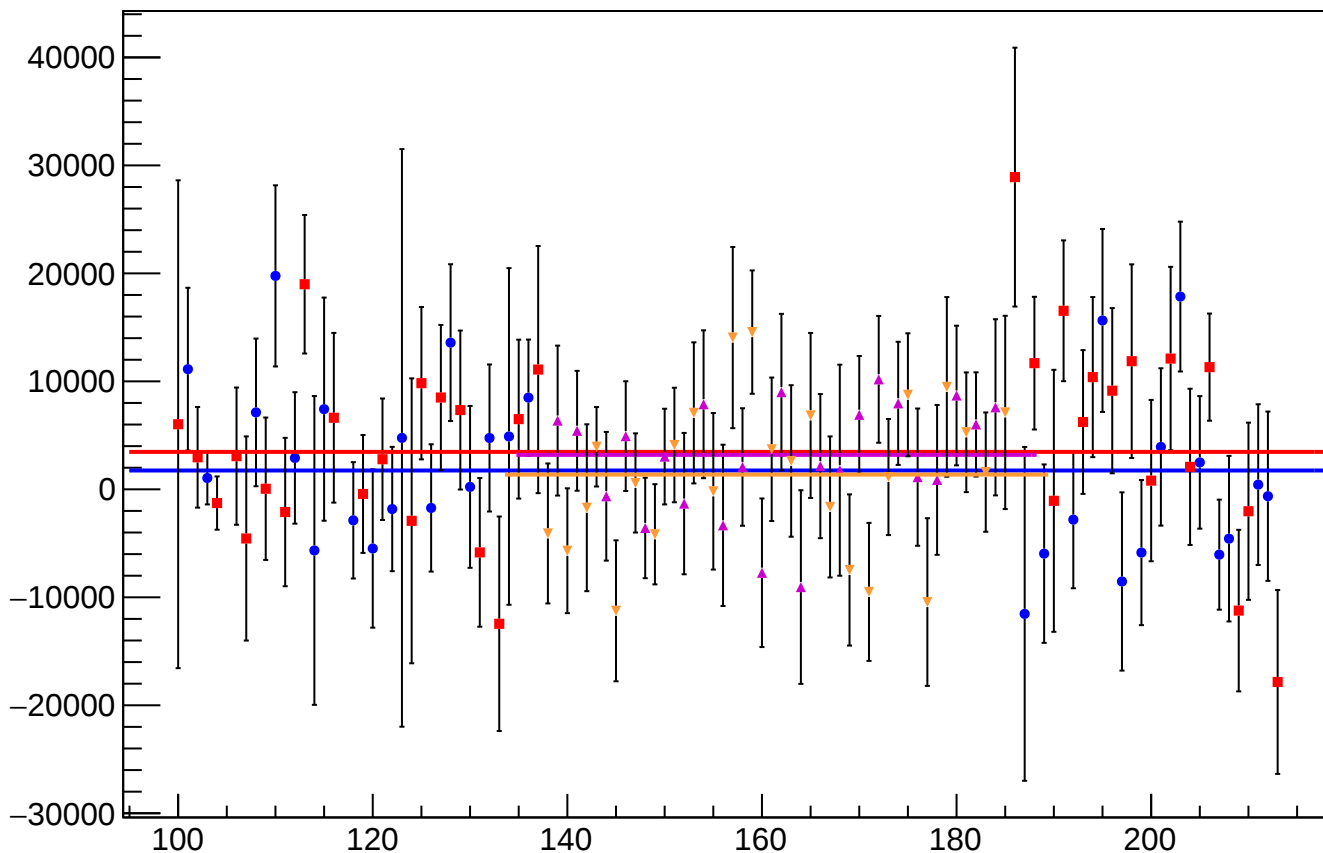
Right: 5671.187+/-0.937 χ^2/NDF : 1835110.1/27

In: 5830.788+/-1.375 χ^2/NDF : 352789.6/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5671.187+/-0.937 χ^2/NDF : 1835110.1/27

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1744.701+/-1176.799 χ^2/NDF : 30.7/29

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3467.479+/-1122.113 χ^2/NDF : 46.0/33

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

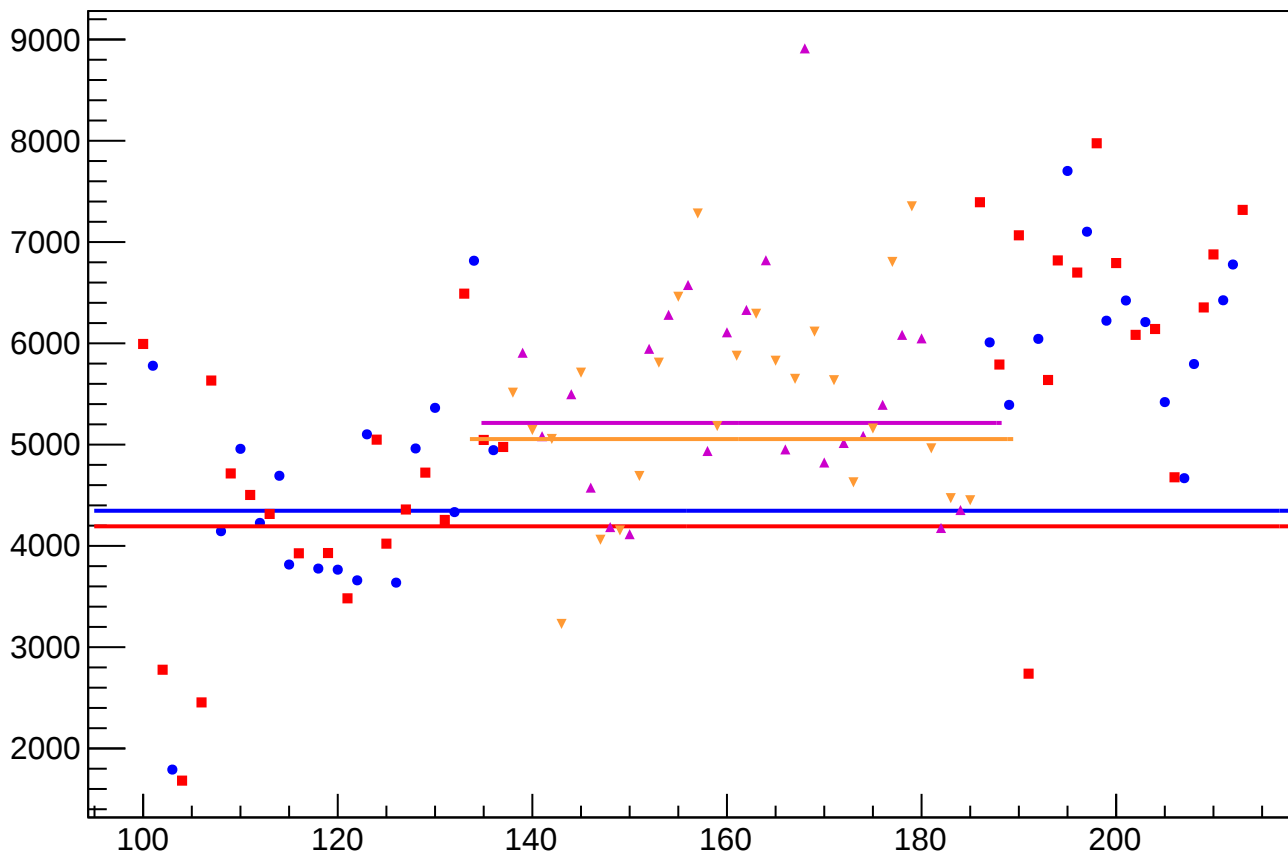
Right: 2647.047+/-812.099 χ^2/NDF : 77.8/63

In: 2412.901+/-863.199 χ^2/NDF : 45.4/52

Out: 2492.168+/-821.595 χ^2/NDF : 75.6/58

All: 2454.491+/-595.120 χ^2/NDF : 121.0/111

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4346.934+/-0.832 χ^2/NDF : 4175819.6/29

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 4193.211+/-0.789 χ^2/NDF : 5307930.5/33

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

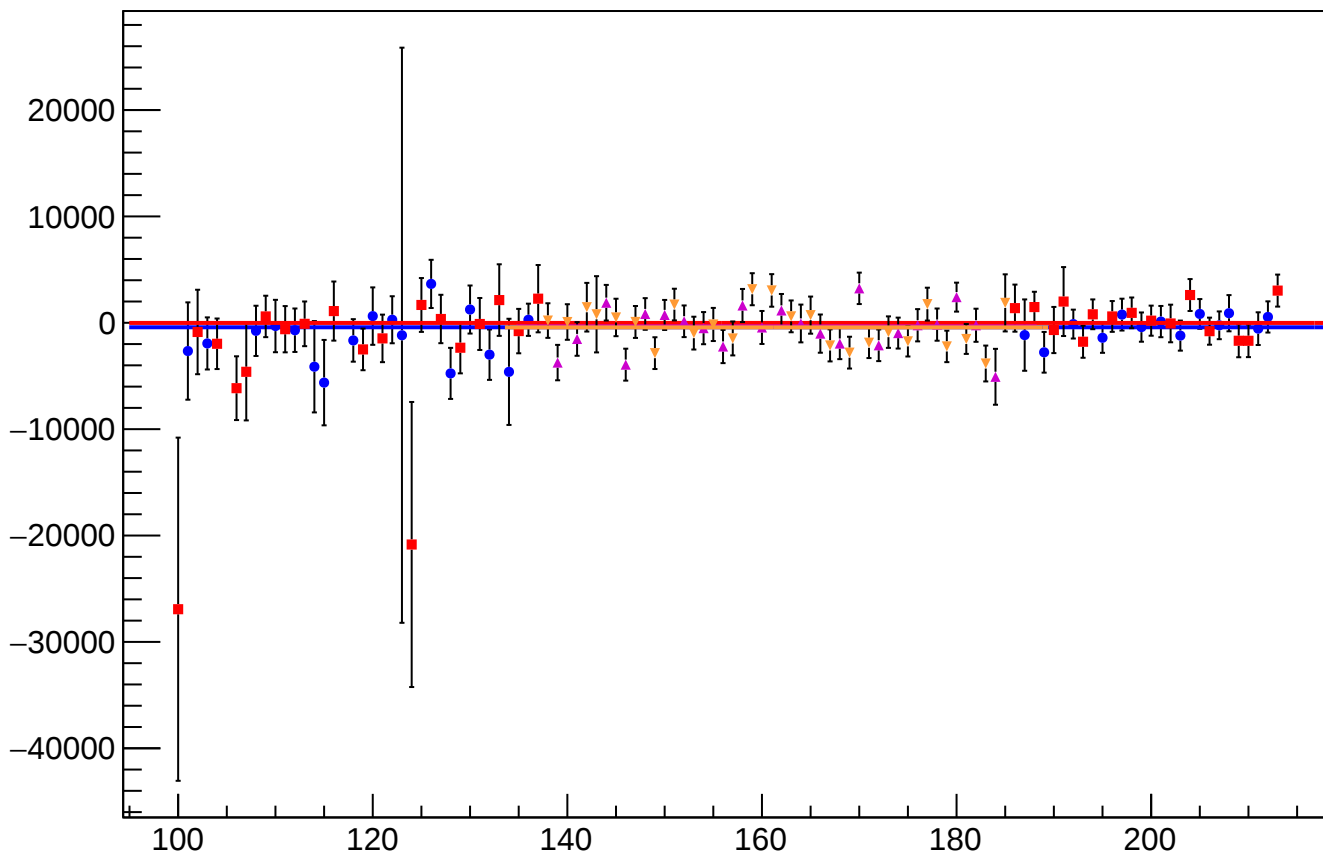
Right: 4265.952+/-0.572 χ^2/NDF : 9501729.2/63

In: 4747.529+/-0.610 χ^2/NDF : 5730035.5/52

Out: 4590.256+/-0.579 χ^2/NDF : 7295129.1/58

All: 4664.755+/-0.420 χ^2/NDF : 13060107.6/130

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -421.985+/-345.013 χ^2/NDF : 17.9/29

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -13.032+/-335.704 χ^2/NDF : 30.1/33

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

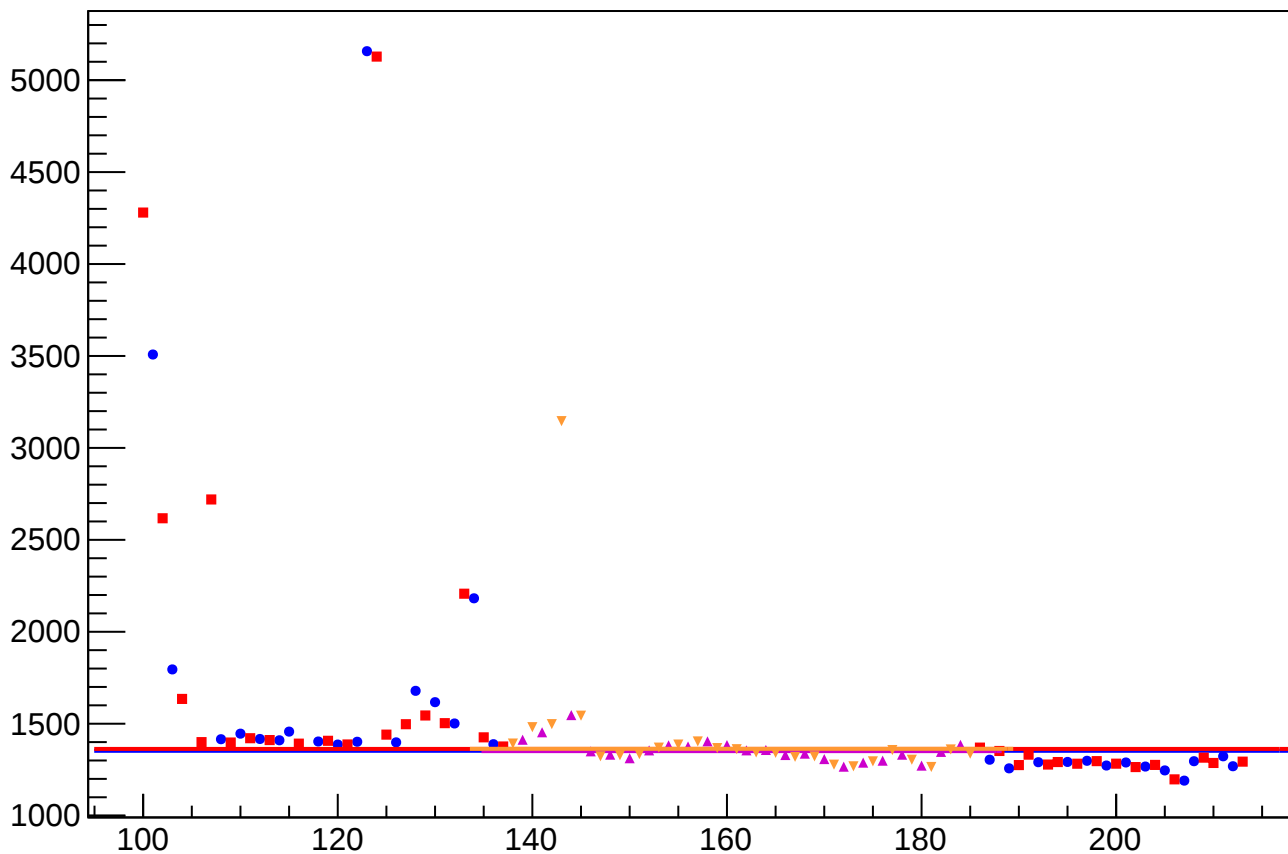
Right: -211.917+/-240.602 χ^2/NDF : 48.8/63

In: -380.450+/-236.325 χ^2/NDF :51.7/52

Out: -232.043+/-231.832 χ^2/NDF :64.0/58

All: -304.822+/-165.495 χ^2/NDF : 115.9/111

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1352.707 $\pm$ 0.244 χ^2 /NDF: 774498.3/29

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1362.943 $\pm$ 0.237 χ^2 /NDF: 874871.5/33

Left In: 1350.909 $\pm$ 0.229 χ^2 /NDF: 67144.5/22

Left: 1357.310 $\pm$ 0.161 χ^2 /NDF: 643910.7/47

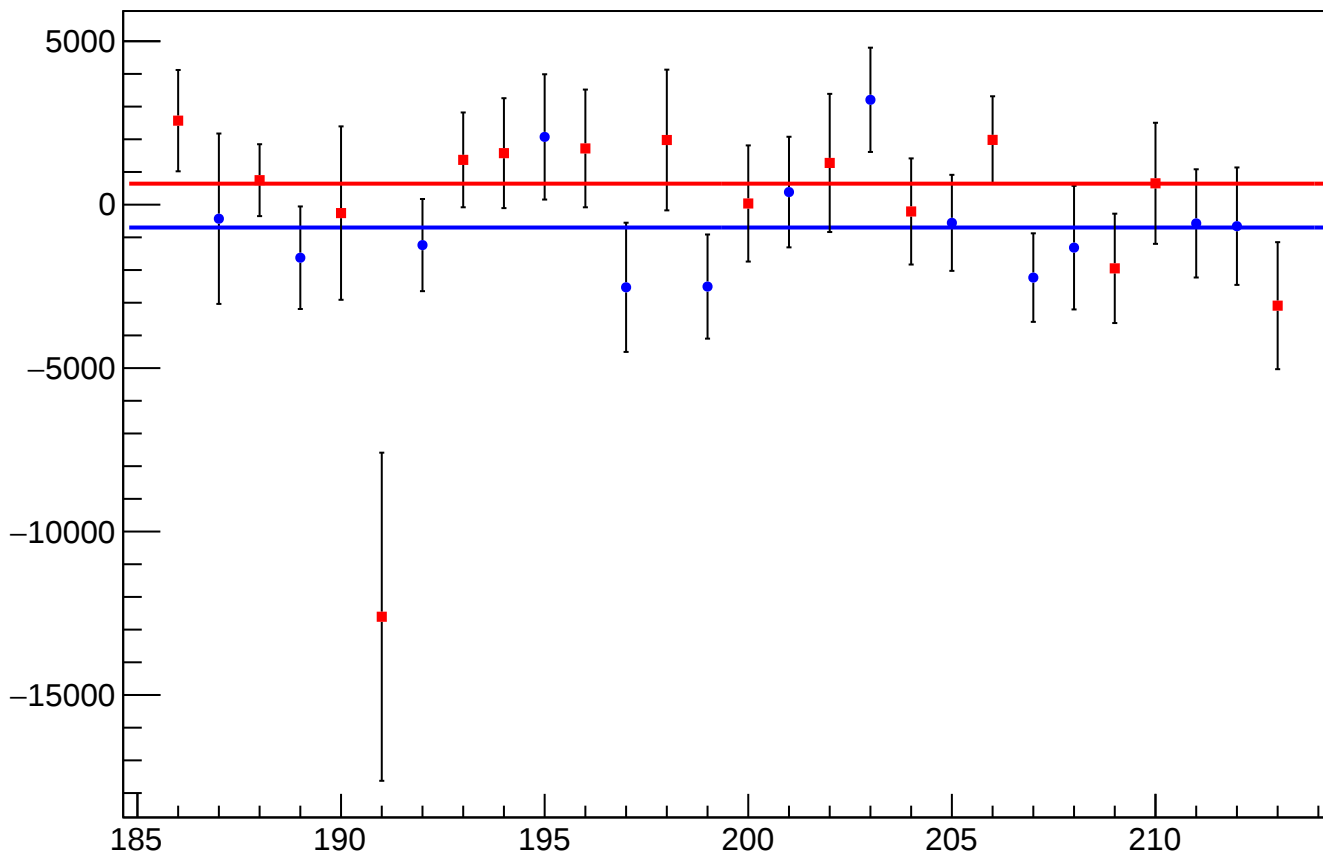
Right: 1357.965 $\pm$ 0.170 χ^2 /NDF: 1650274.1/63

In: 1351.752 $\pm$ 0.167 χ^2 /NDF: 841671.6/52

Out: 1363.266 $\pm$ 0.164 χ^2 /NDF: 1450101.7/58

All: 1357.620 $\pm$ 0.117 χ^2 /NDF: 2294192.6/111

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -699.102+/-462.019 χ^2/NDF : 12.5/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 642.503+/-439.639 χ^2/NDF : 17.5/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

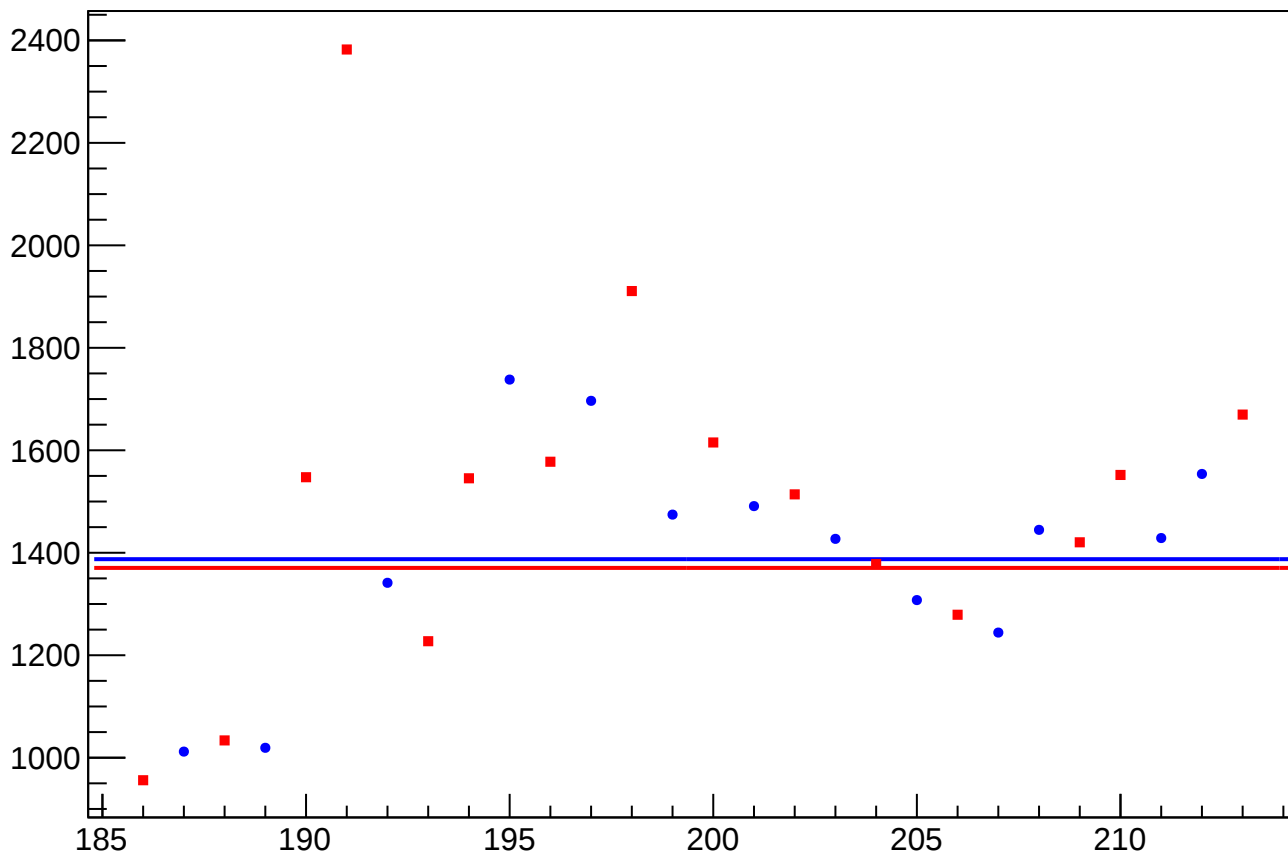
Right: 4.979+/-318.490 χ^2/NDF : 34.5/27

In: -699.102+/-462.019 χ^2/NDF : 12.5/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 4.979+/-318.490 χ^2/NDF : 34.5/27

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1387.496+/-0.327 χ^2/NDF : 332827.9/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1370.455+/-0.311 χ^2/NDF : 739344.3/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

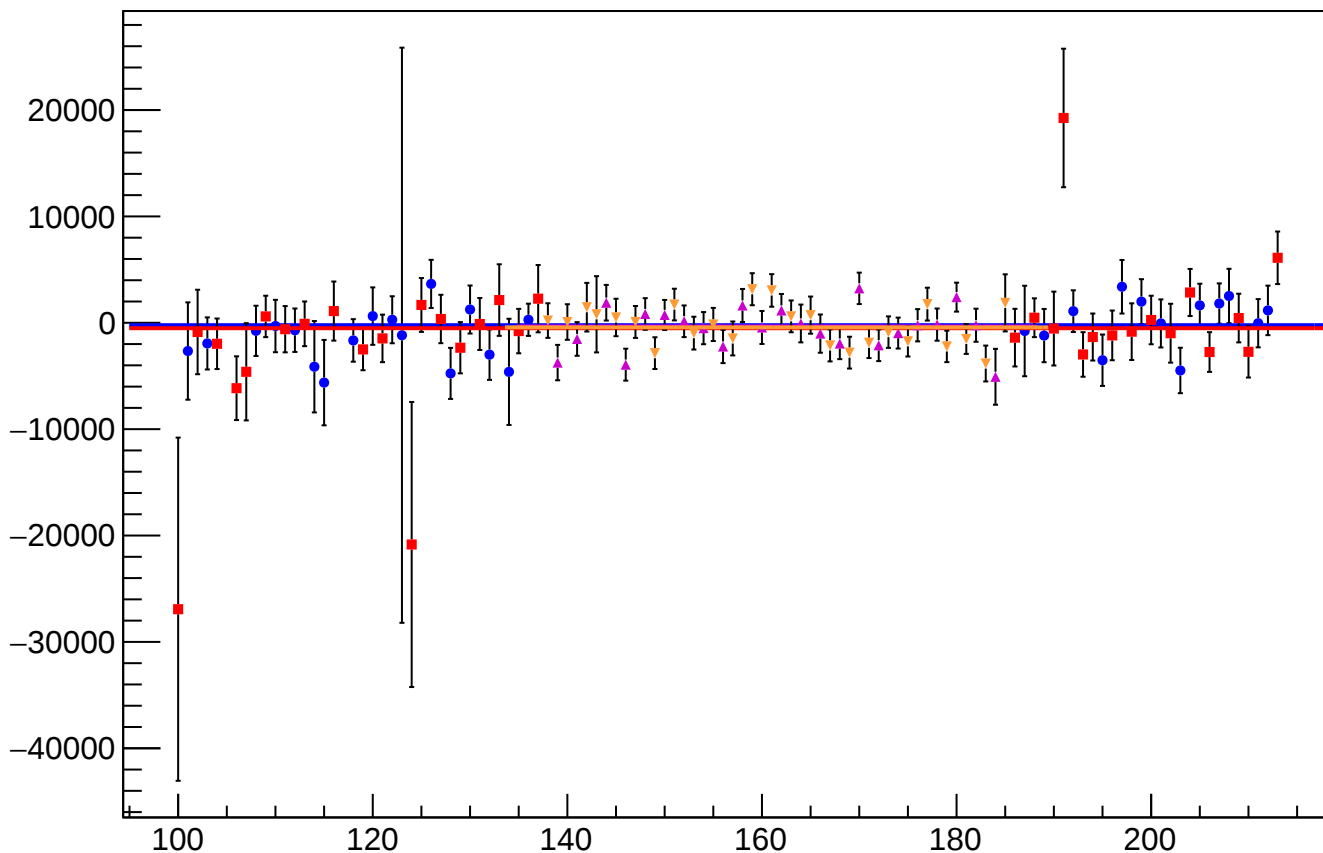
Right: 1378.553+/-0.225 χ^2/NDF : 1073600.2/27

In: 1387.496+/-0.327 χ^2/NDF : 332827.9/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1378.553+/-0.225 χ^2/NDF : 1073600.2/27

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -226.958+/-437.554 χ^2/NDF : 26.5/29

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: -509.058+/-428.422 χ^2/NDF : 37.8/33

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

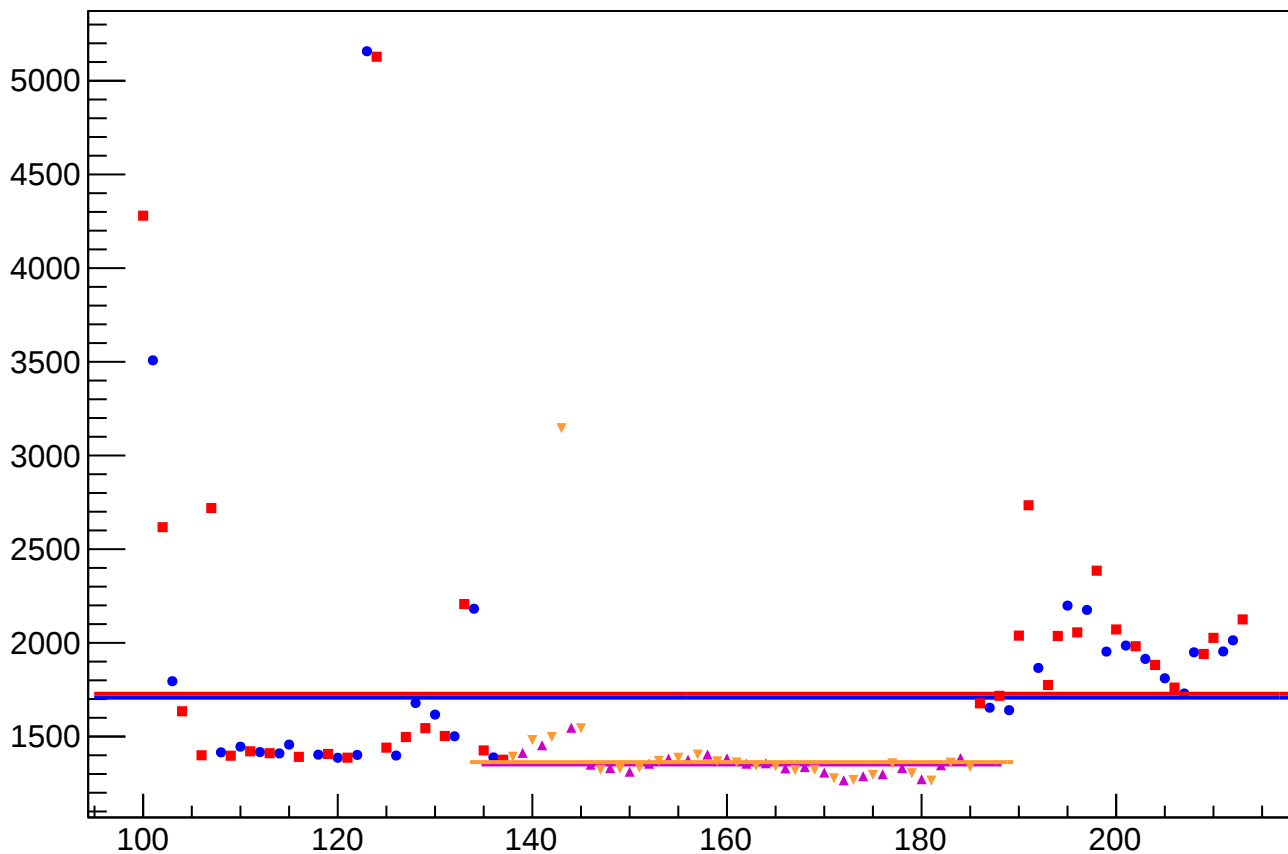
Right: -370.982+/-306.118 χ^2/NDF : 64.5/63

In: -302.321+/-260.576 χ^2/NDF :60.3/52

Out: -459.472+/-256.655 χ^2/NDF :70.9/58

All: -382.088+/-182.853 χ^2/NDF : 131.4/111

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1707.518+/-0.309 χ^2/NDF : 1055780.3/29

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1728.447+/-0.303 χ^2/NDF : 1292639.3/33

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

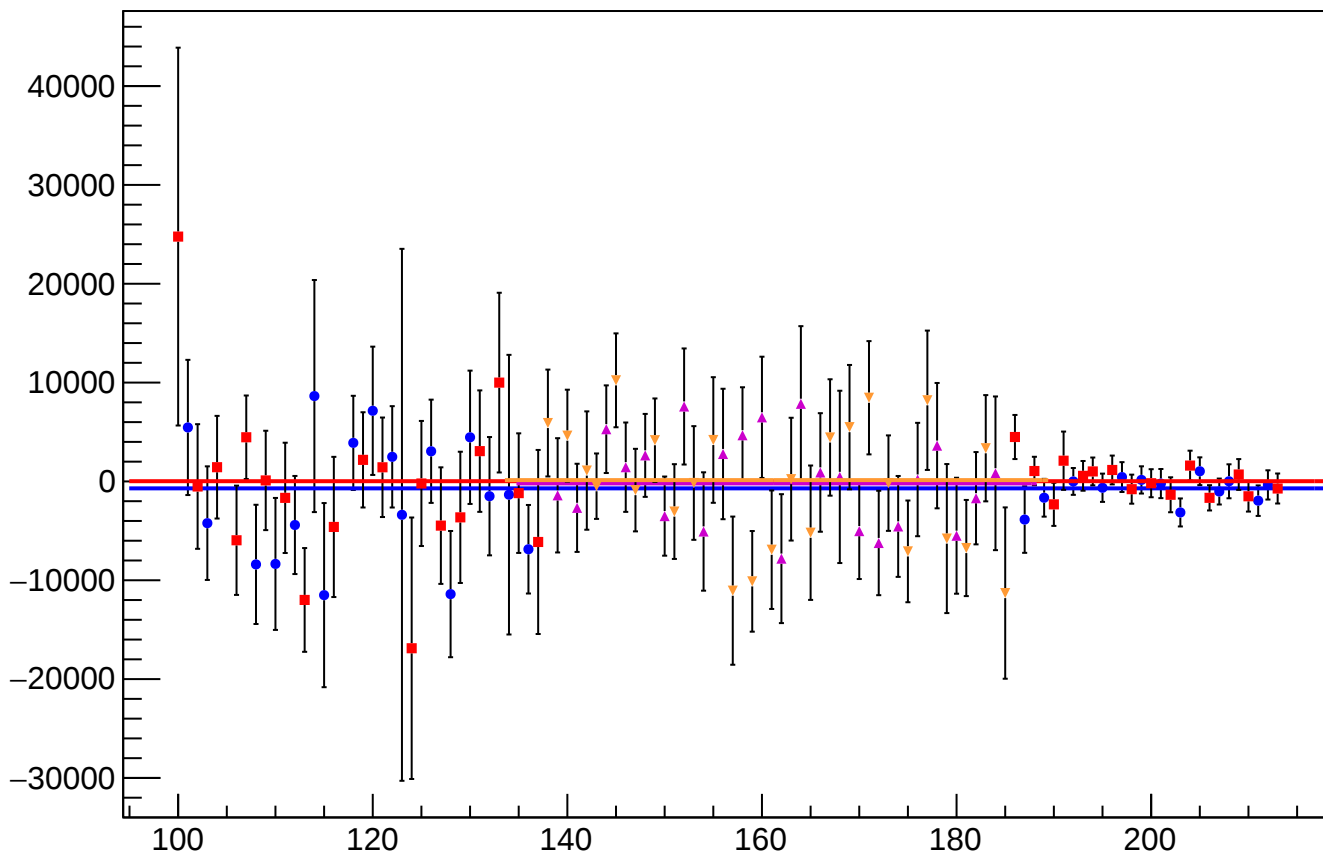
Right: 1718.203+/-0.216 χ^2/NDF : 2350755.7/63

In: 1477.382+/-0.184 χ^2/NDF : 1980248.0/52

Out: 1494.514+/-0.181 χ^2/NDF : 2797984.0/58

All: 1486.078+/-0.129 χ^2/NDF : 4782620.2/111

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -702.302 ± 406.452 $\chi^2/\text{NDF}: 23.2/29$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 22.961 ± 390.919 $\chi^2/\text{NDF}: 27.1/33$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

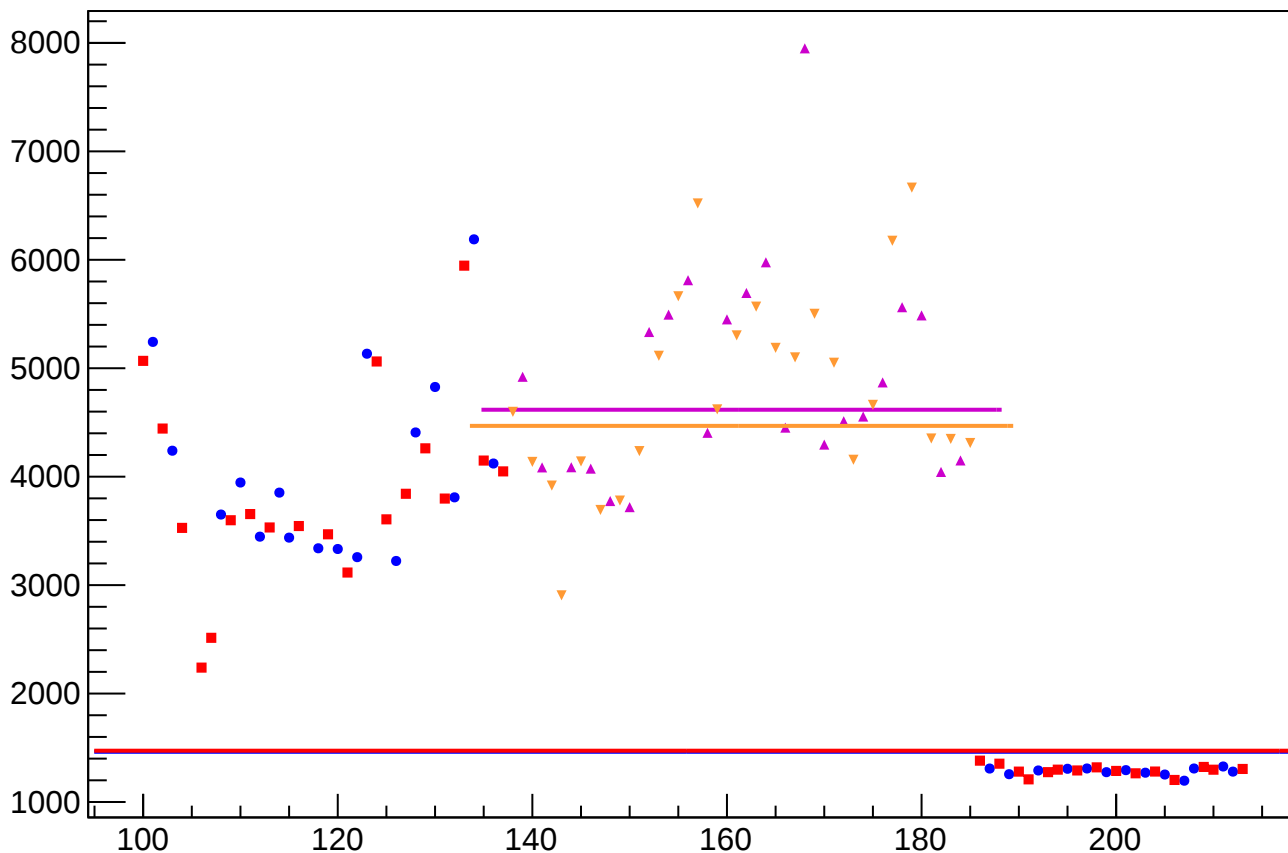
Right: -325.548 ± 281.753 $\chi^2/\text{NDF}: 51.9/63$

In: -644.190 ± 382.209 $\chi^2/\text{NDF}: 38.1/52$

Out: 35.913 ± 367.000 $\chi^2/\text{NDF}: 55.2/58$

All: -290.338 ± 264.722 $\chi^2/\text{NDF}: 94.9/111$

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1463.022+/-0.287 χ^2/NDF : 5648894.9/29

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 1473.008+/-0.276 χ^2/NDF : 5482209.3/33

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

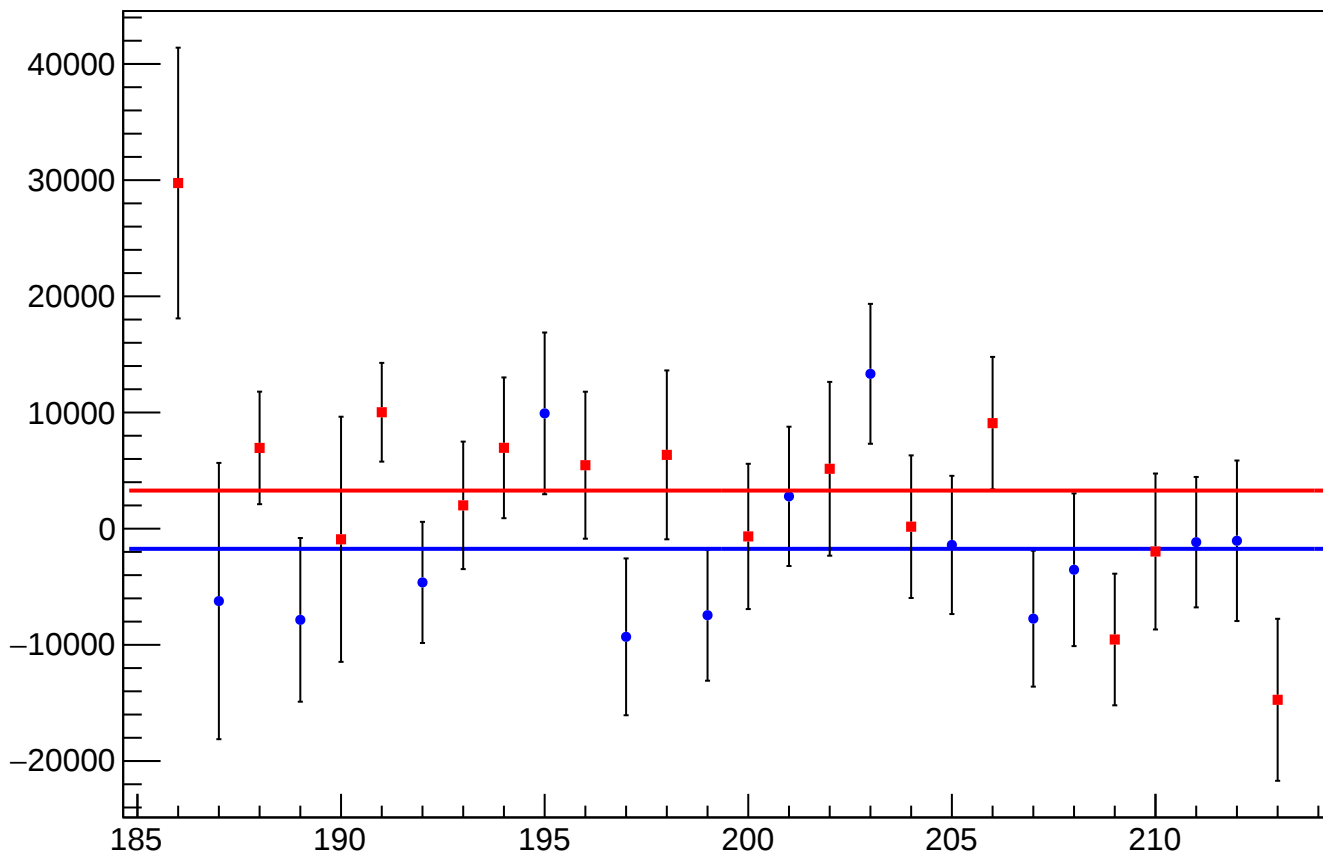
Right: 1468.213+/-0.199 χ^2/NDF : 11131731.8/63

In: 1828.073+/-0.270 χ^2/NDF : 20588599.8/52

Out: 1827.898+/-0.259 χ^2/NDF : 20796476.8/58

All: 1827.982+/-0.187 χ^2/NDF : 41385076.8/115

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -1736.065+/-1749.463 χ^2/NDF : 14.3/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 3279.451+/-1594.363 χ^2/NDF : 23.3/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

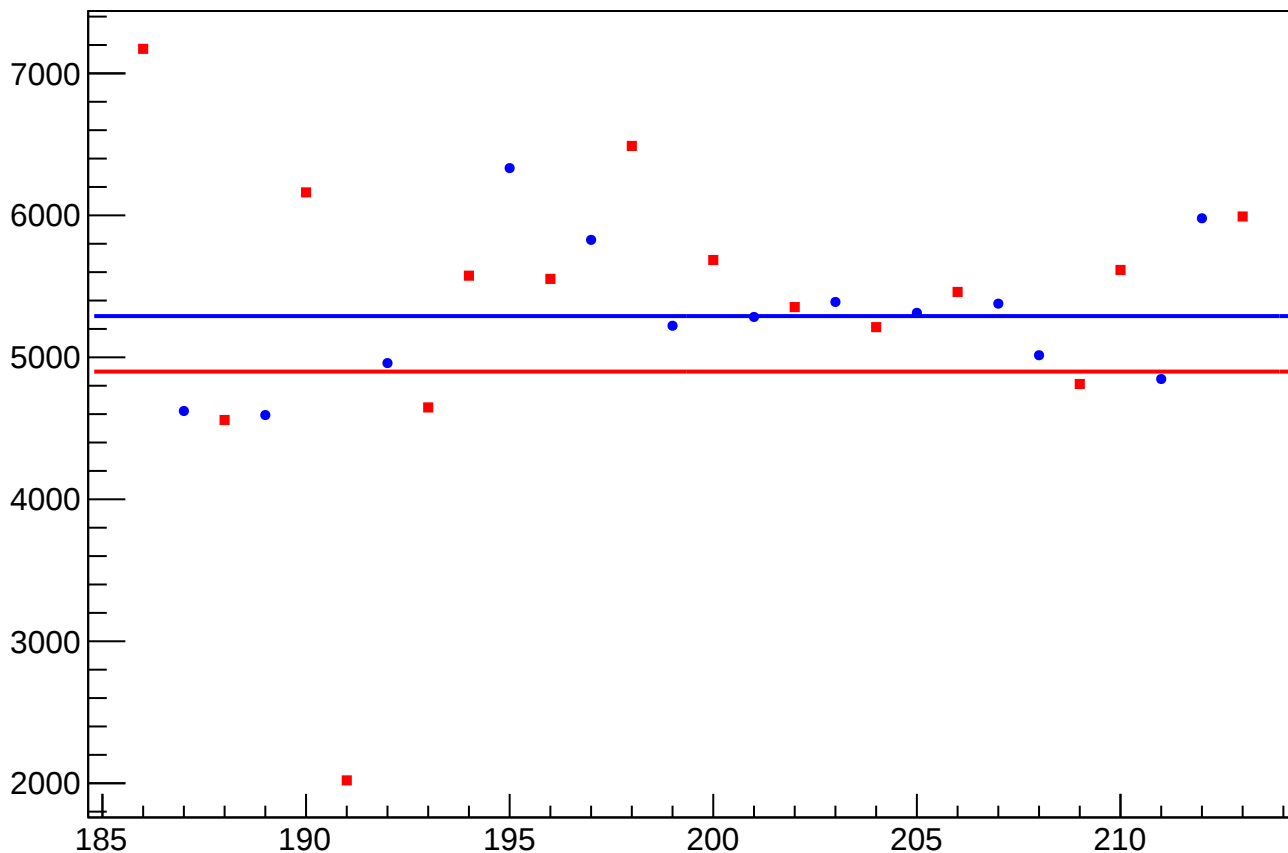
Right: 1003.834+/-1178.410 χ^2/NDF : 42.1/27

In: -1736.065+/-1749.463 χ^2/NDF : 14.3/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1003.834+/-1178.410 χ^2/NDF : 42.1/27

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5290.474+/-1.237 χ^2/NDF : 128654.1/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4899.540+/-1.127 χ^2/NDF : 1314616.1/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

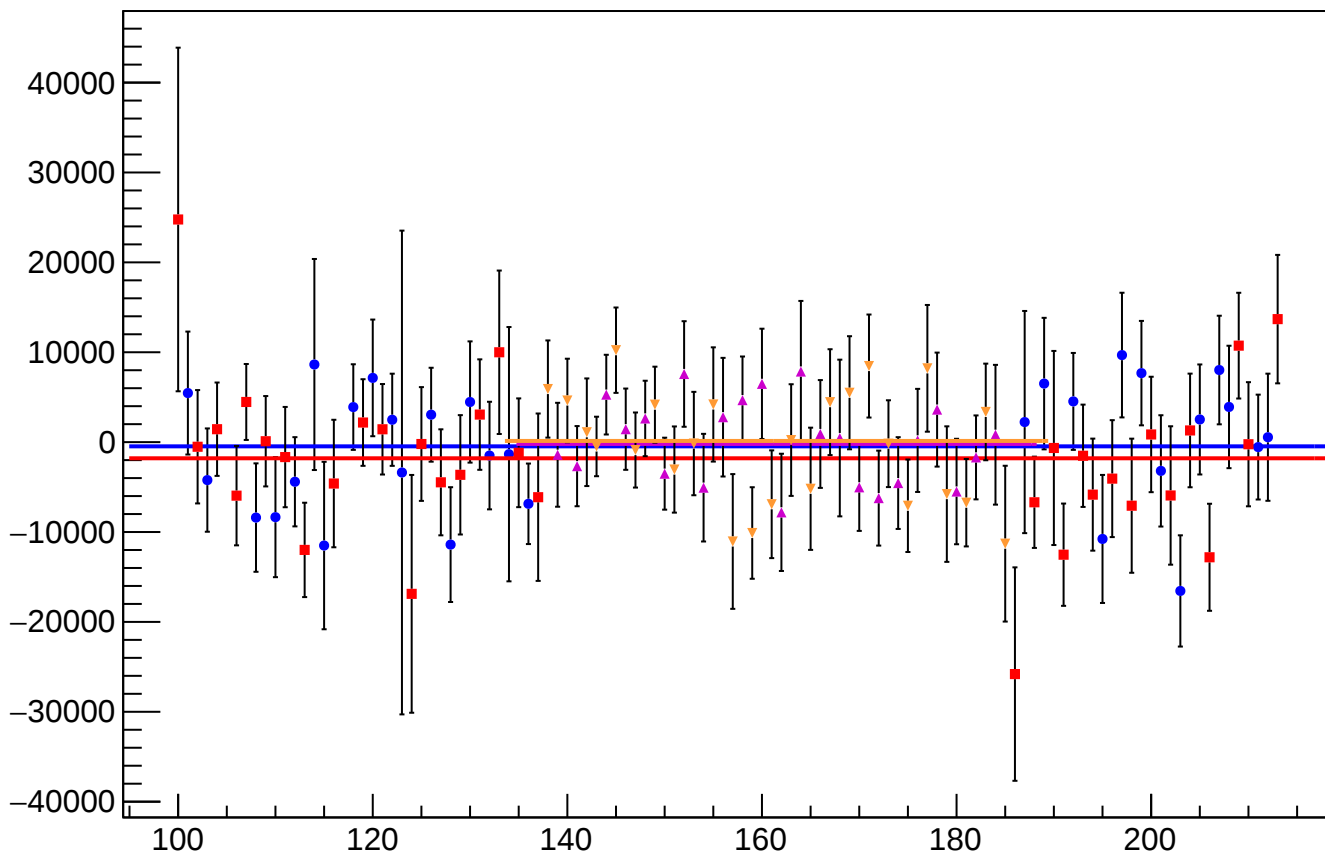
Right: 5076.913+/-0.833 χ^2/NDF : 1497826.5/27

In: 5290.474+/-1.237 χ^2/NDF : 128654.1/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5076.913+/-0.833 χ^2/NDF : 1497826.5/27

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -468.309+/-1161.574 χ^2/NDF : 33.1/29

Left Out: 132.142+/-1065.543 χ^2/NDF : 28.1/24

Right Out: -1797.397+/-1071.445 χ^2/NDF : 37.5/33

Left In: -200.182+/-1123.499 χ^2/NDF : 14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

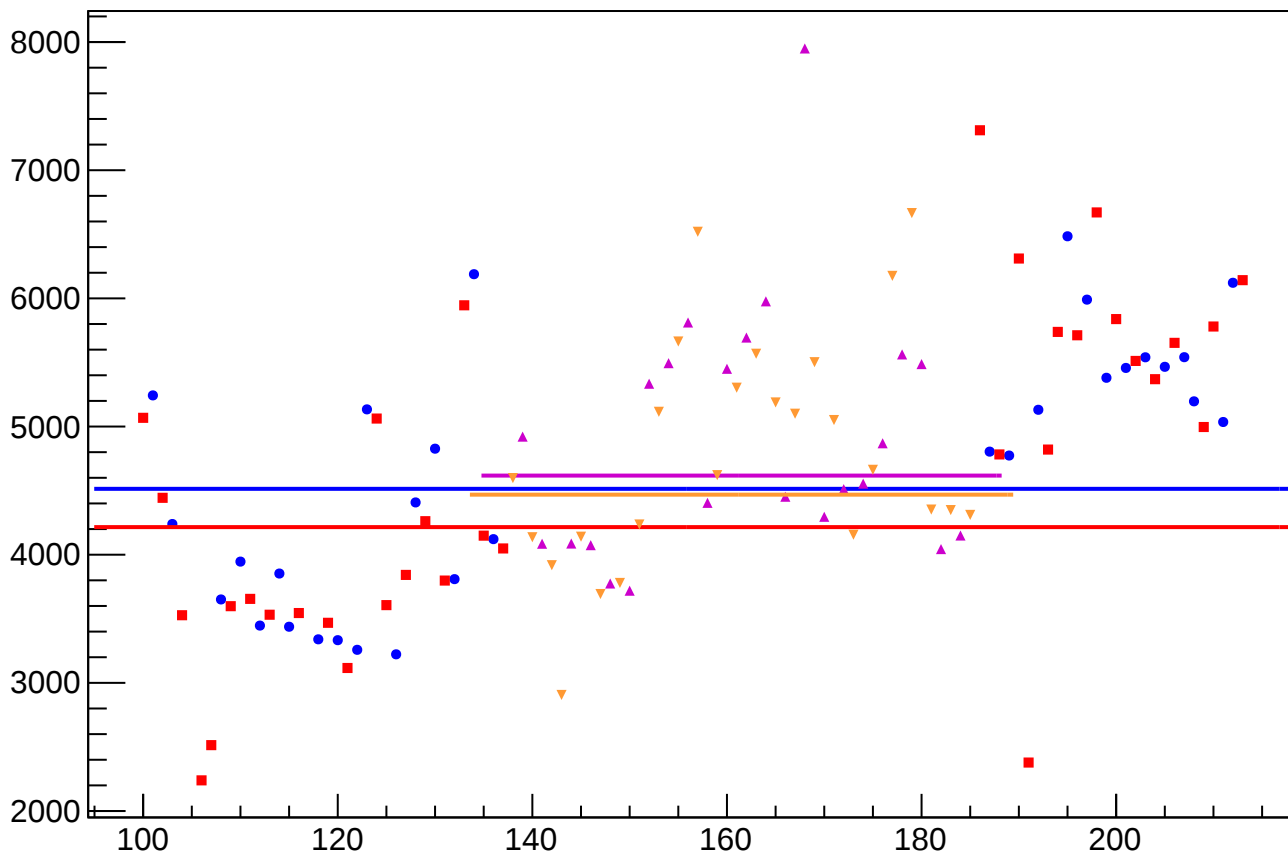
Right: -1186.410+/-787.564 χ^2/NDF : 71.3/63

In: -329.779+/-807.559 χ^2/NDF : 47.9/52

Out: -827.298+/-755.531 χ^2/NDF : 67.3/58

All: -595.081+/-551.718 χ^2/NDF : 115.3/111

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4513.951 $\pm$ 0.821 χ^2/NDF : 1380476.0/29

Left Out: 4468.520 $\pm$ 0.753 χ^2/NDF : 1380601.0/24

Right Out: 4215.252 $\pm$ 0.753 χ^2/NDF : 2620723.4/33

Left In: 4617.293 $\pm$ 0.794 χ^2/NDF : 999599.8/22

Left: 4538.970 $\pm$ 0.547 χ^2/NDF : 2398663.8/47

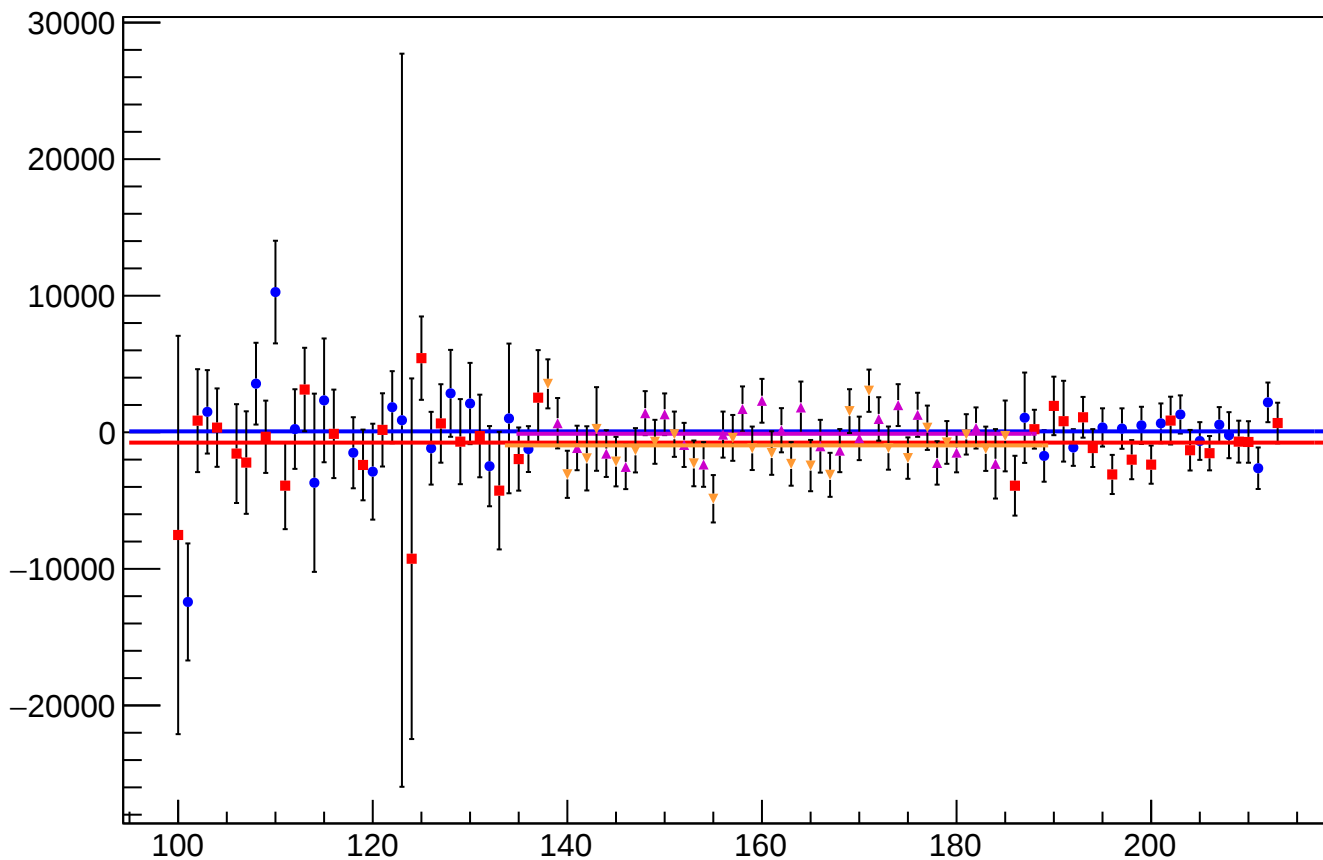
Right: 4351.744 $\pm$ 0.555 χ^2/NDF : 4073020.8/63

In: 4567.343 $\pm$ 0.571 χ^2/NDF : 2388254.8/52

Out: 4341.883 $\pm$ 0.533 χ^2/NDF : 4057821.9/58

All: 4446.807 $\pm$ 0.390 χ^2/NDF : 6529420.9/11

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 68.062 ± 363.649 χ^2/NDF : 31.0/29

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -756.191 ± 352.256 χ^2/NDF : 23.6/33

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

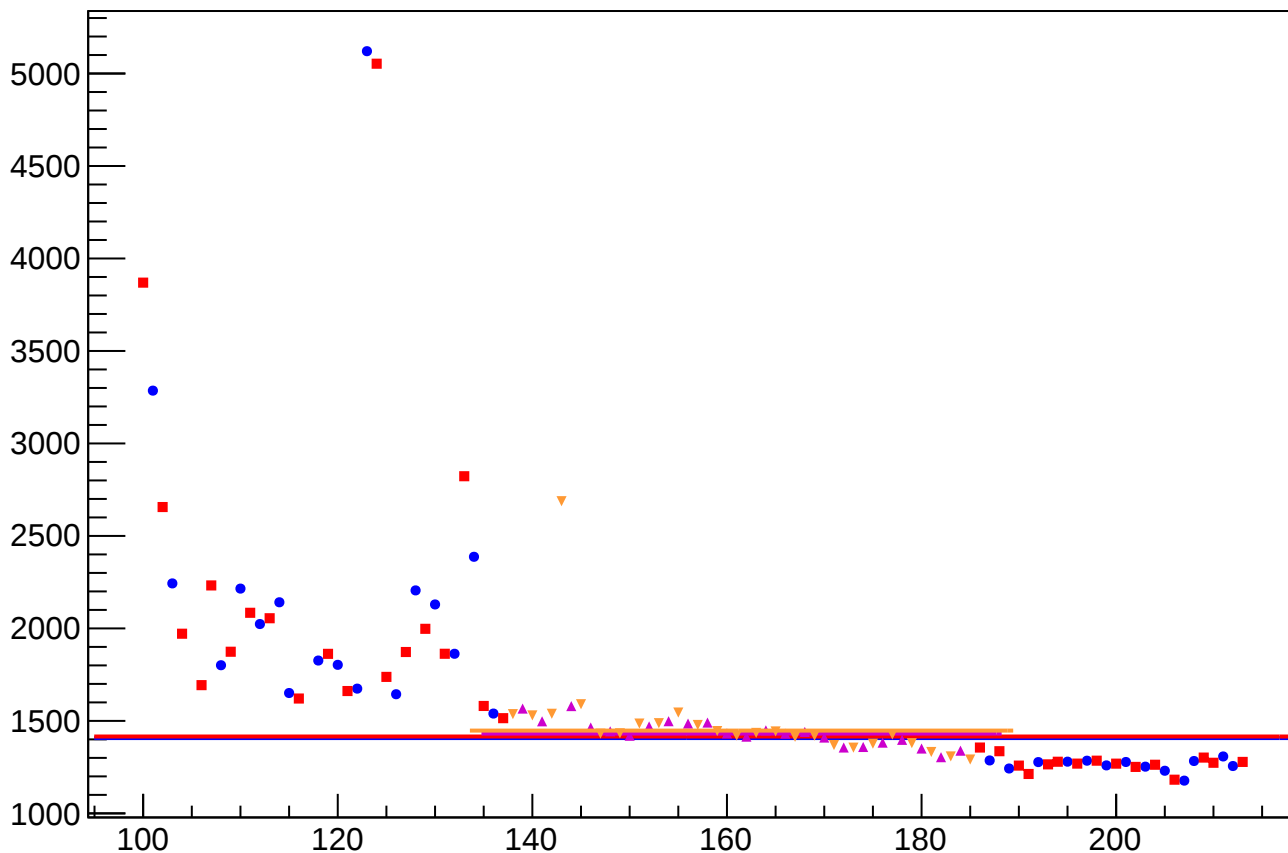
Right: -357.178 ± 253.014 χ^2/NDF : 57.2/63

In: -24.682 ± 249.773 χ^2/NDF : 50.6/52

Out: -861.029 ± 244.447 χ^2/NDF : 52.3/58

All: -451.868 ± 174.703 χ^2/NDF : 108.6/111

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1407.155+/-0.257 χ^2/NDF : 1569924.6/29

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1415.598+/-0.249 χ^2/NDF : 1619497.0/33

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

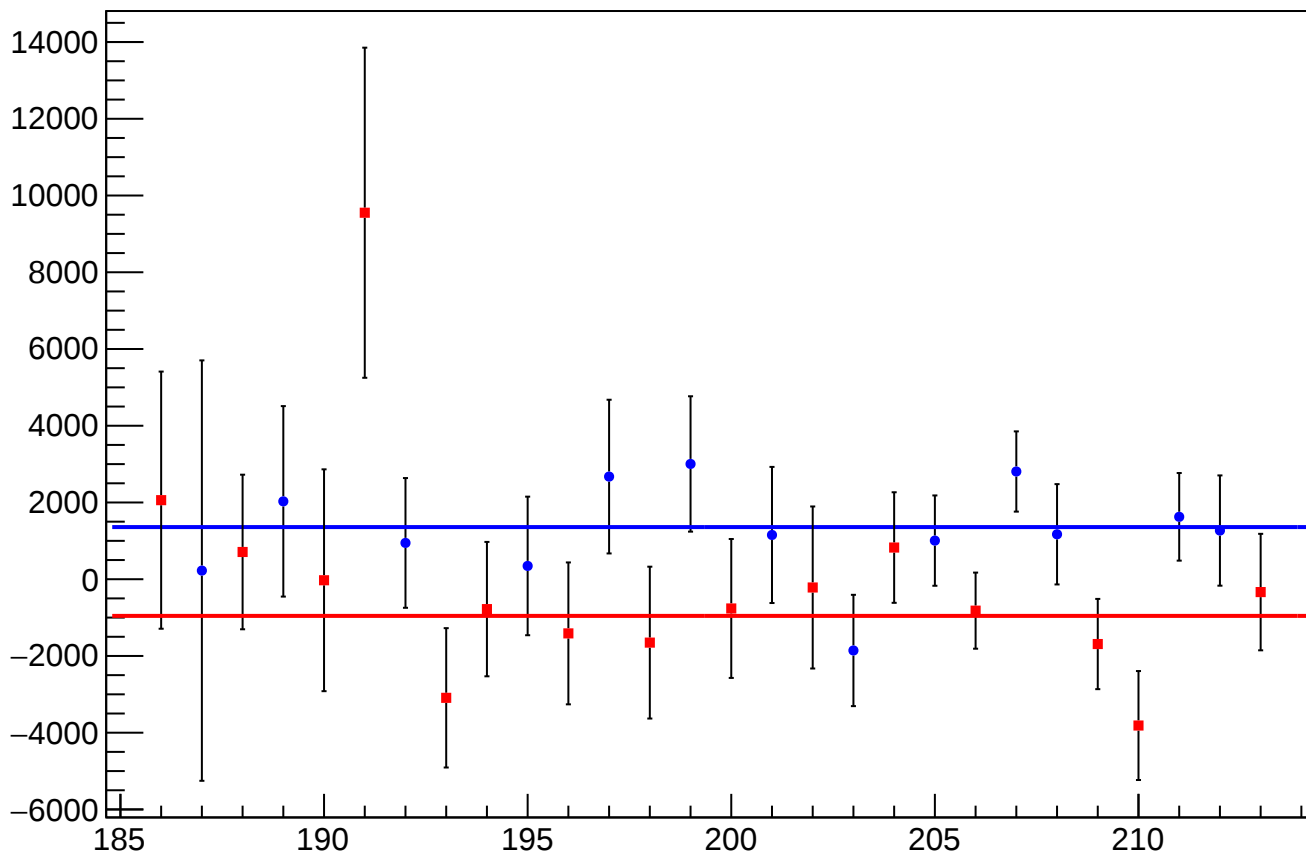
Right: 1411.511+/-0.179 χ^2/NDF : 3189977.8/63

In: 1419.991+/-0.177 χ^2/NDF : 1649772.7/52

Out: 1432.165+/-0.173 χ^2/NDF : 2047285.5/58

All: 1426.209+/-0.124 χ^2/NDF : 3699485.0/111

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1358.936 $\pm$ 419.249 χ^2 /NDF: 8.8/12

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: -955.667 $\pm$ 431.633 χ^2 /NDF: 15.4/14

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

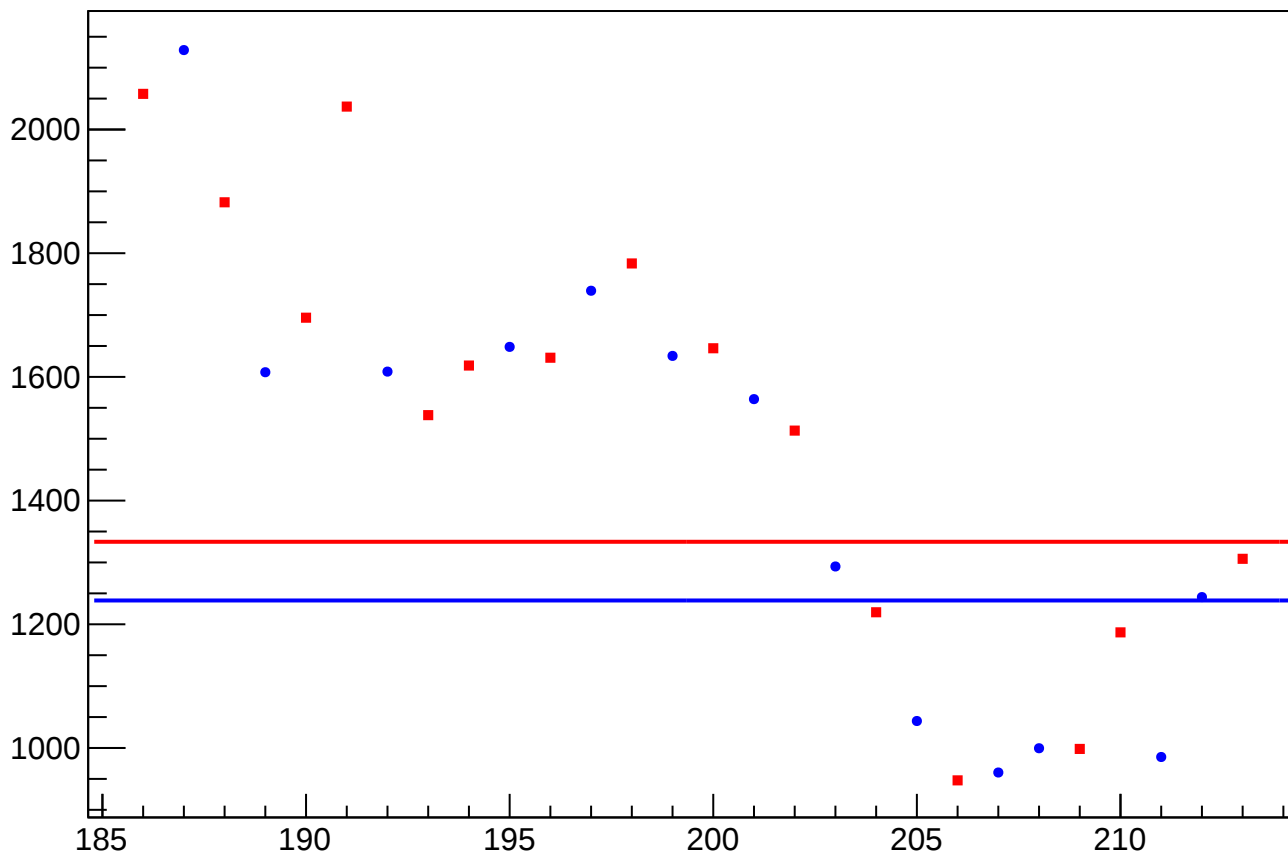
Right: 235.314 $\pm$ 300.737 χ^2 /NDF: 39.0/27

In: 1358.936 $\pm$ 419.249 χ^2 /NDF:8.8/12

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 235.314 $\pm$ 300.737 χ^2 /NDF: 39.0/27

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1238.504+/-0.296 χ^2/NDF : 953264.8/12

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1333.410+/-0.305 χ^2/NDF : 1134065.5/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

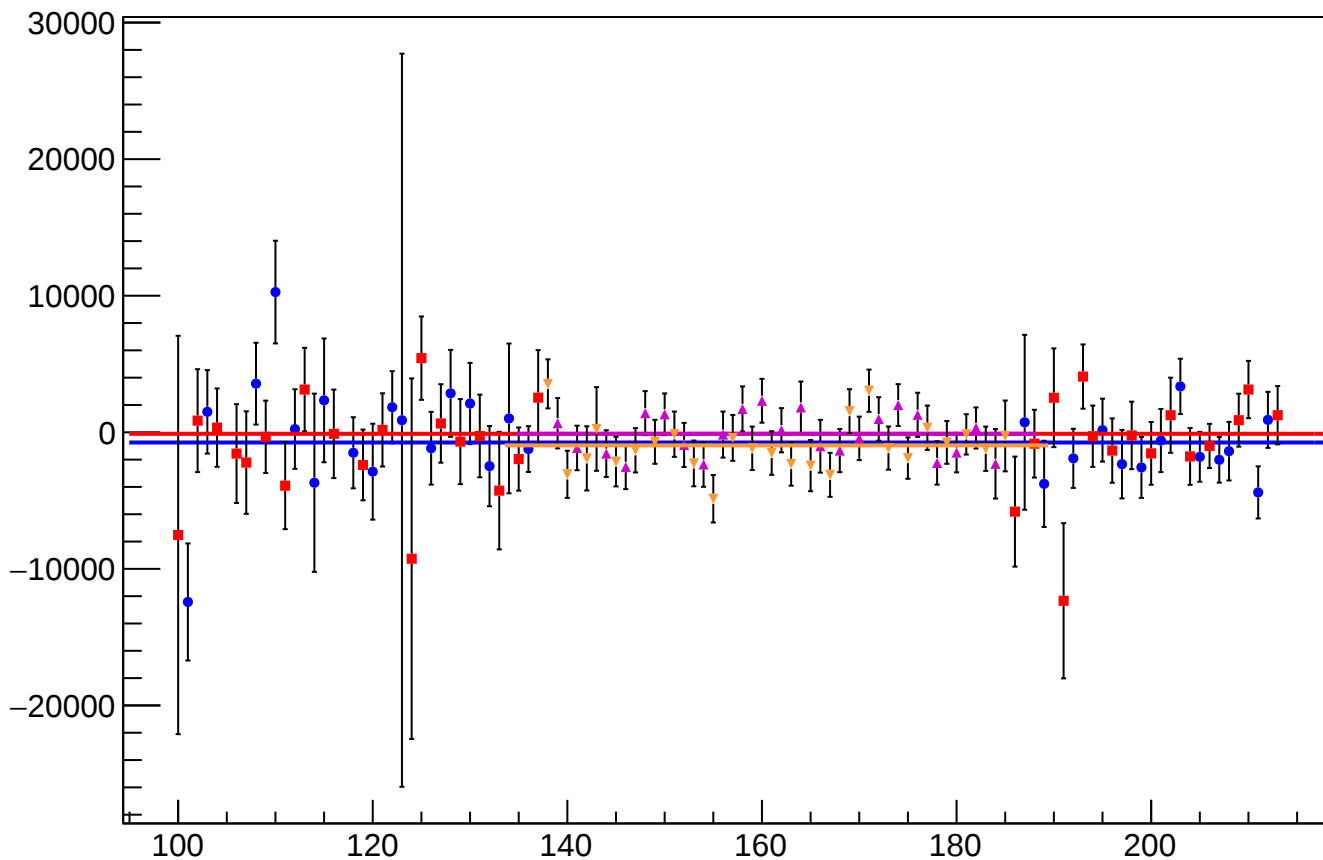
Right: 1284.576+/-0.213 χ^2/NDF : 2137083.6/27

In: 1238.504+/-0.296 χ^2/NDF : 953264.8/12

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1284.576+/-0.213 χ^2/NDF : 2137083.6/27

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -747.246+/-472.894 χ^2/NDF : 35.5/29

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: -111.192+/-468.872 χ^2/NDF : 25.5/33

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

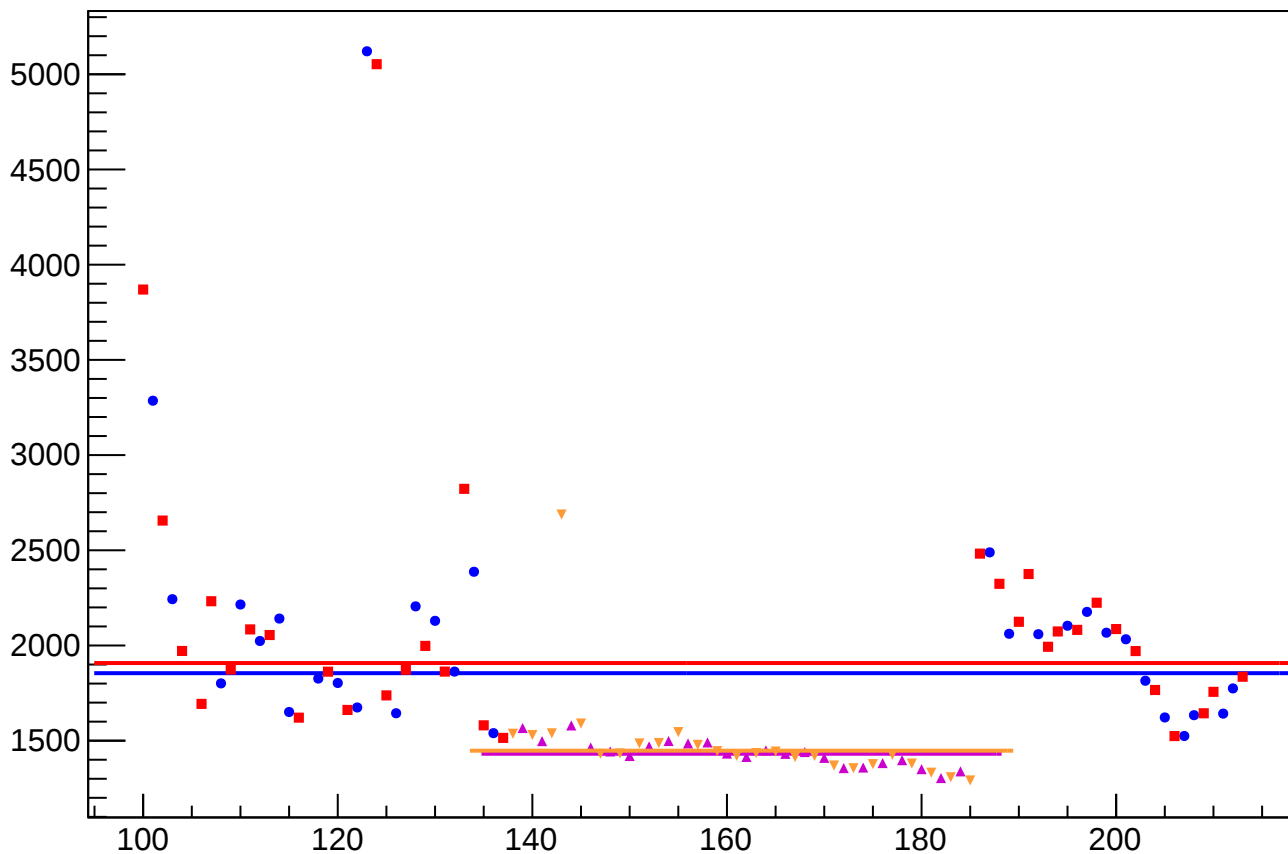
Right: -426.503+/-332.955 χ^2/NDF : 61.9/63

In: -328.607+/-278.005 χ^2/NDF : 56.2/52

Out: -667.008+/-274.981 χ^2/NDF : 56.2/58

All: -499.658+/-195.501 χ^2/NDF : 113.1/111

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1854.597 $\pm$ 0.334 χ^2 /NDF: 764737.3/29

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1907.866 $\pm$ 0.332 χ^2 /NDF: 819835.2/33

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

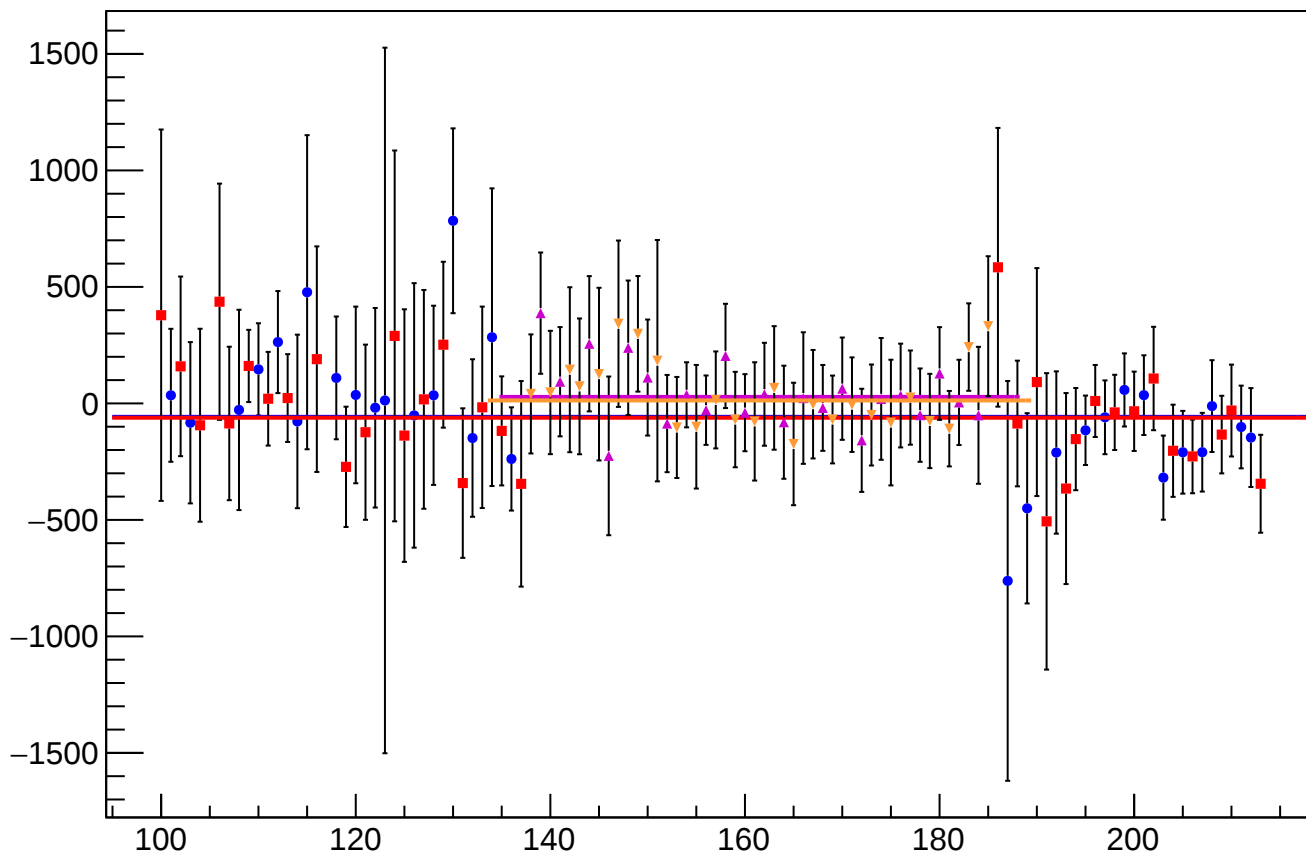
Right: 1881.459 $\pm$ 0.235 χ^2 /NDF: 1597370.1/63

In: 1577.695 $\pm$ 0.197 χ^2 /NDF: 1887757.9/52

Out: 1605.881 $\pm$ 0.194 χ^2 /NDF: 2503728.4/58

All: 1591.942 $\pm$ 0.138 χ^2 /NDF: 4401878.0/111

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.690 ± 44.309 $\chi^2/\text{NDF}: 16.7/29$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -61.465 ± 43.078 $\chi^2/\text{NDF}: 14.2/33$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

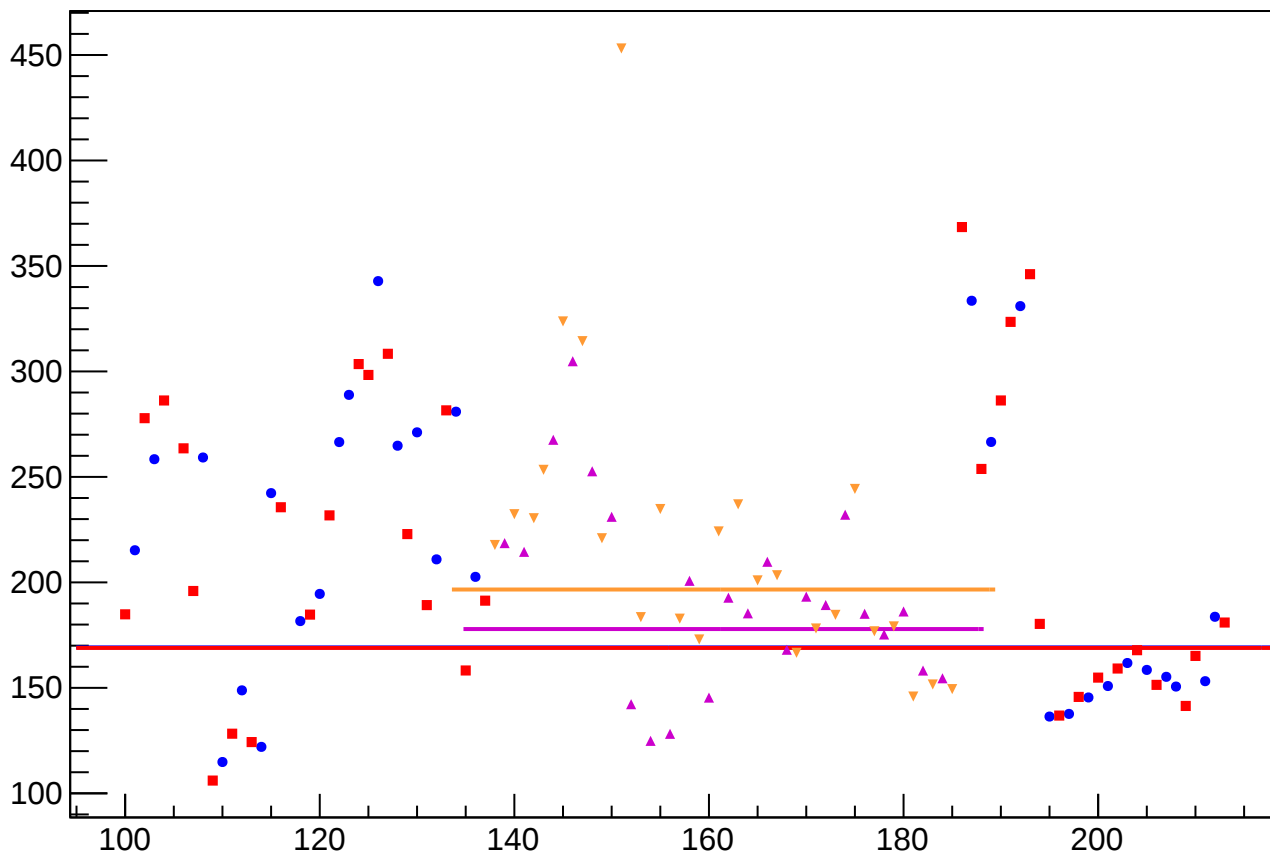
Right: -59.631 ± 30.887 $\chi^2/\text{NDF}: 30.9/63$

In: -15.091 ± 31.407 $\chi^2/\text{NDF}: 25.1/52$

Out: -28.020 ± 31.906 $\chi^2/\text{NDF}: 23.2/58$

All: -21.454 ± 22.382 $\chi^2/\text{NDF}: 48.4/111$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.178 $\pm$ 0.031 χ^2 /NDF: 2136904.4/29

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 168.937 $\pm$ 0.030 χ^2 /NDF: 2838720.3/33

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

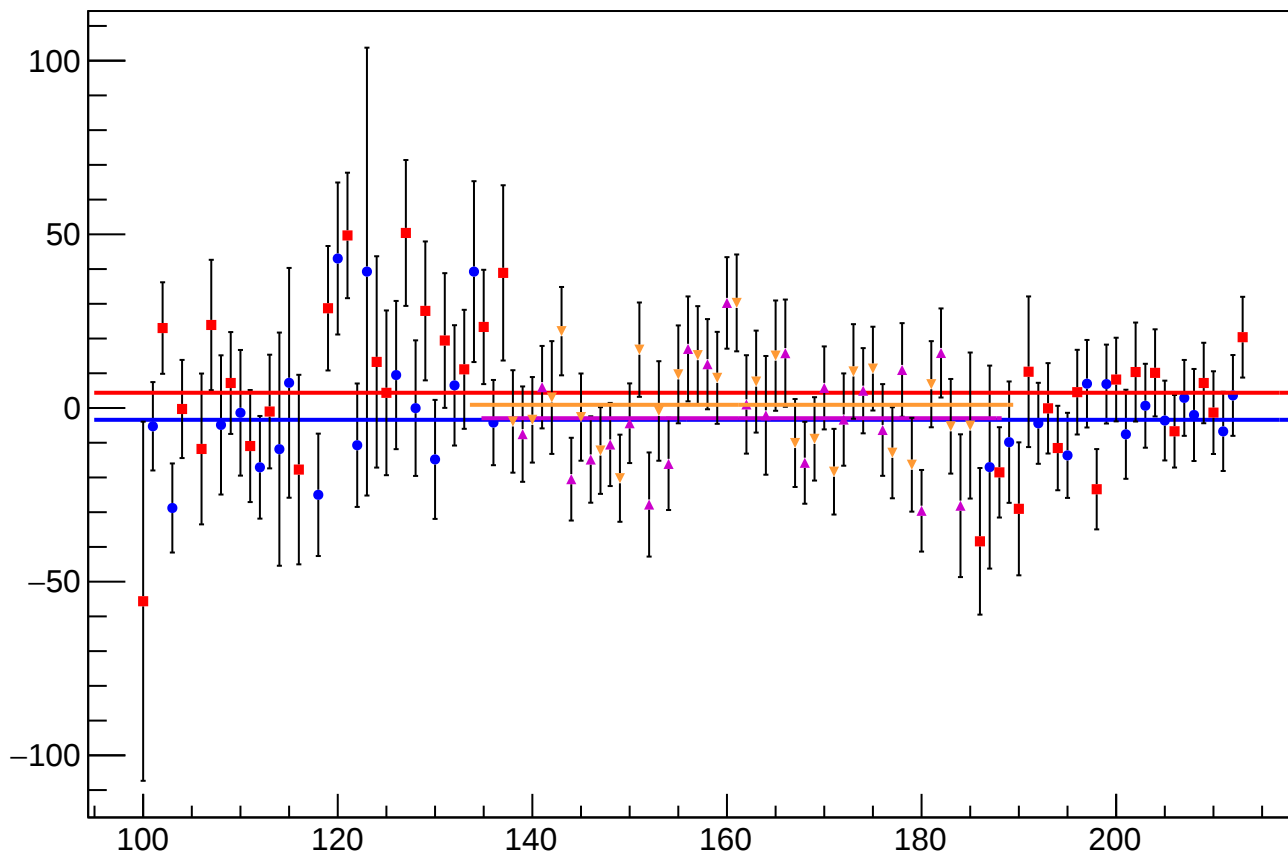
Right: 169.054 $\pm$ 0.022 χ^2 /NDF: 4975655.1/63

In: 173.507 $\pm$ 0.022 χ^2 /NDF:3819357.3/52

Out: 181.434 $\pm$ 0.023 χ^2 /NDF:5005087.1/58

All: 177.408 $\pm$ 0.016 χ^2 /NDF: 8887149.7/111

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.400 ± 2.724 $\chi^2/\text{NDF}: 19.0/29$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 4.389 ± 2.636 $\chi^2/\text{NDF}: 46.9/33$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

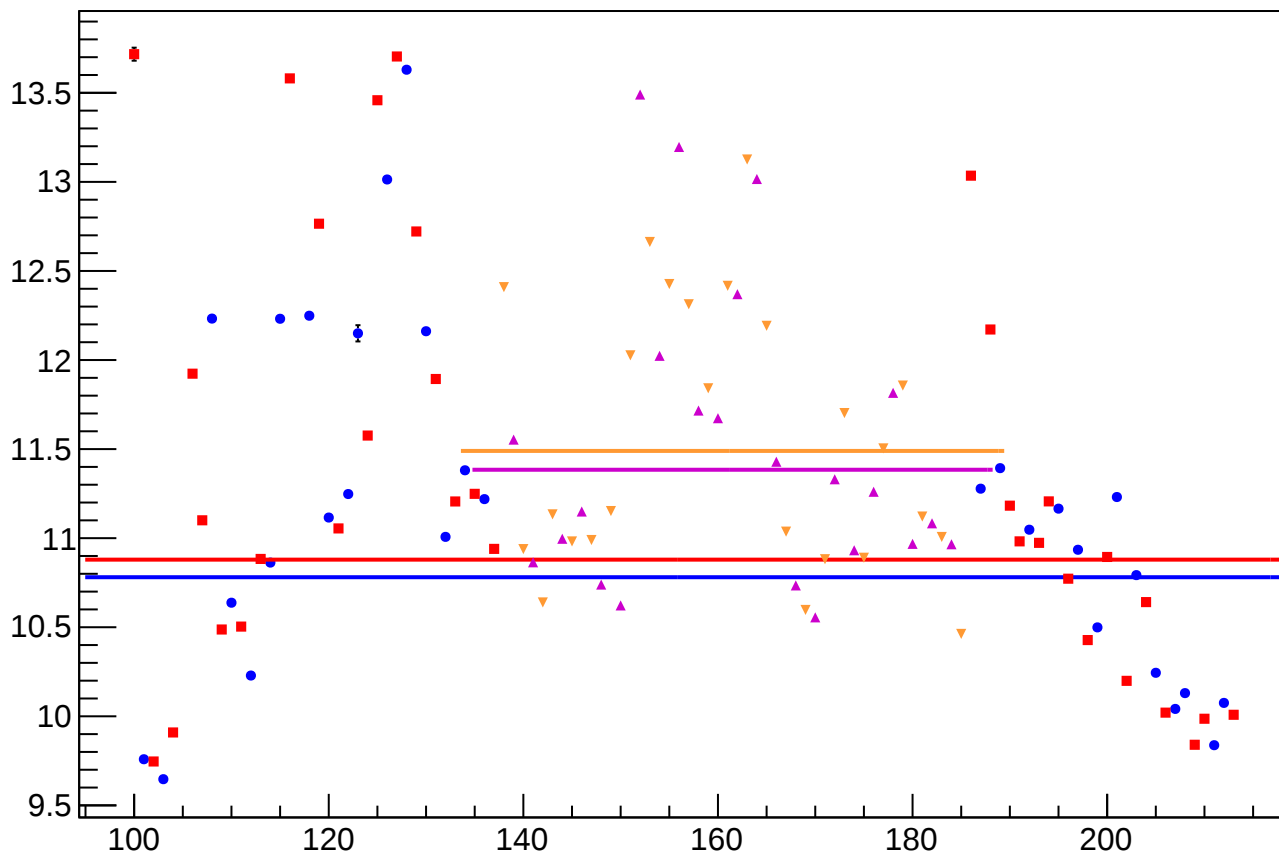
Right: 0.623 ± 1.894 $\chi^2/\text{NDF}: 70.1/63$

In: -3.172 ± 1.933 $\chi^2/\text{NDF}: 50.1/52$

Out: 2.694 ± 1.885 $\chi^2/\text{NDF}: 71.7/58$

All: -0.164 ± 1.350 $\chi^2/\text{NDF}: 126.5/111$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.781 ± 0.002 $\chi^2/\text{NDF}: 193329.0/29$

Left Out: 11.490 ± 0.002 $\chi^2/\text{NDF}: 132399.1/24$

Right Out: 10.879 ± 0.002 $\chi^2/\text{NDF}: 267939.7/33$

Left In: 11.384 ± 0.002 $\chi^2/\text{NDF}: 149799.6/22$

Left: 11.438 ± 0.001 $\chi^2/\text{NDF}: 283707.5/47$

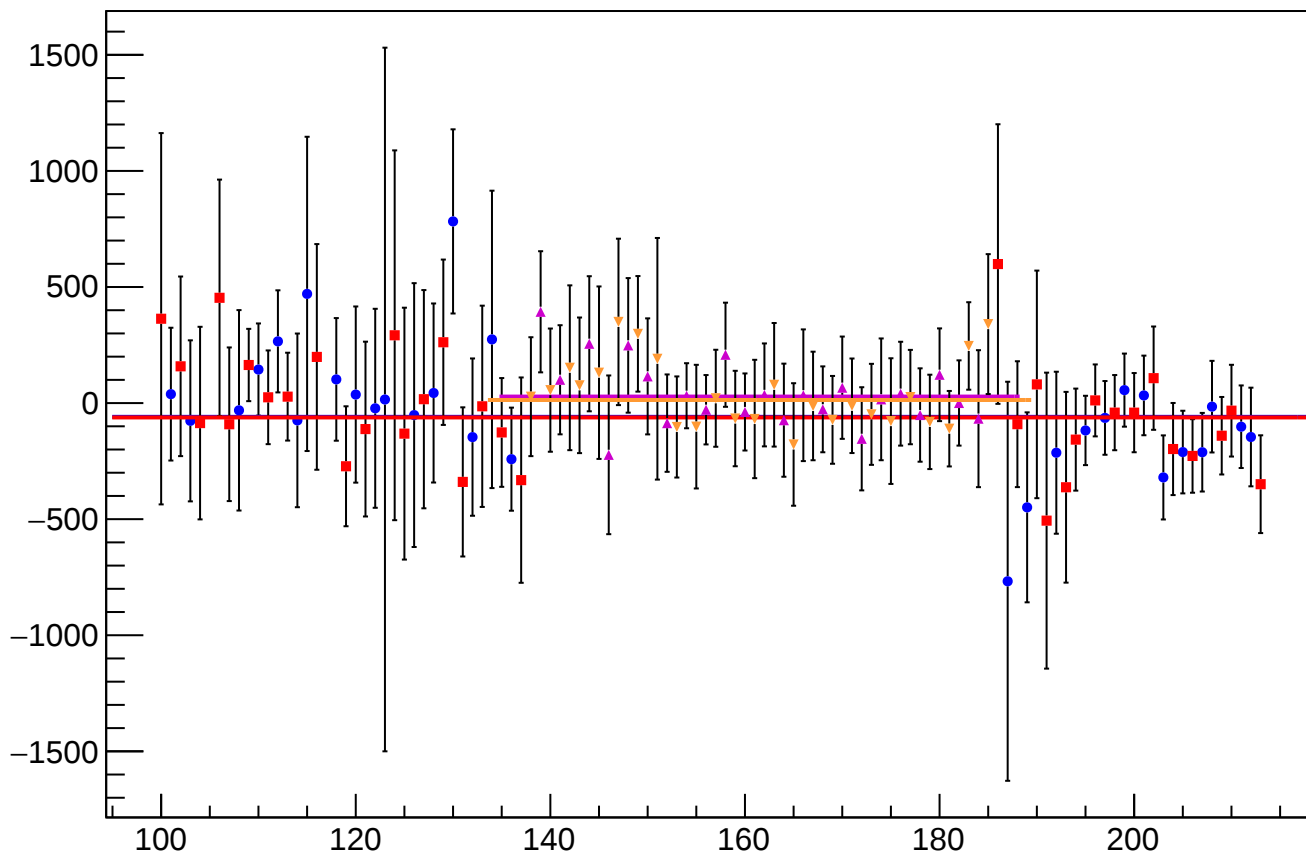
Right: 10.832 ± 0.001 $\chi^2/\text{NDF}: 462624.1/63$

In: 11.080 ± 0.001 $\chi^2/\text{NDF}: 391805.8/52$

Out: 11.178 ± 0.001 $\chi^2/\text{NDF}: 452742.2/58$

All: 11.130 ± 0.001 $\chi^2/\text{NDF}: 847158.4/111$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.280 ± 44.417 χ^2/NDF : 16.7/29

Left Out: 13.323 ± 47.662 χ^2/NDF : 7.9/24

Right Out: -61.828 ± 43.191 χ^2/NDF : 14.4/33

Left In: 28.050 ± 44.681 χ^2/NDF : 6.6/22

Left: 21.161 ± 32.597 χ^2/NDF : 14.6/47

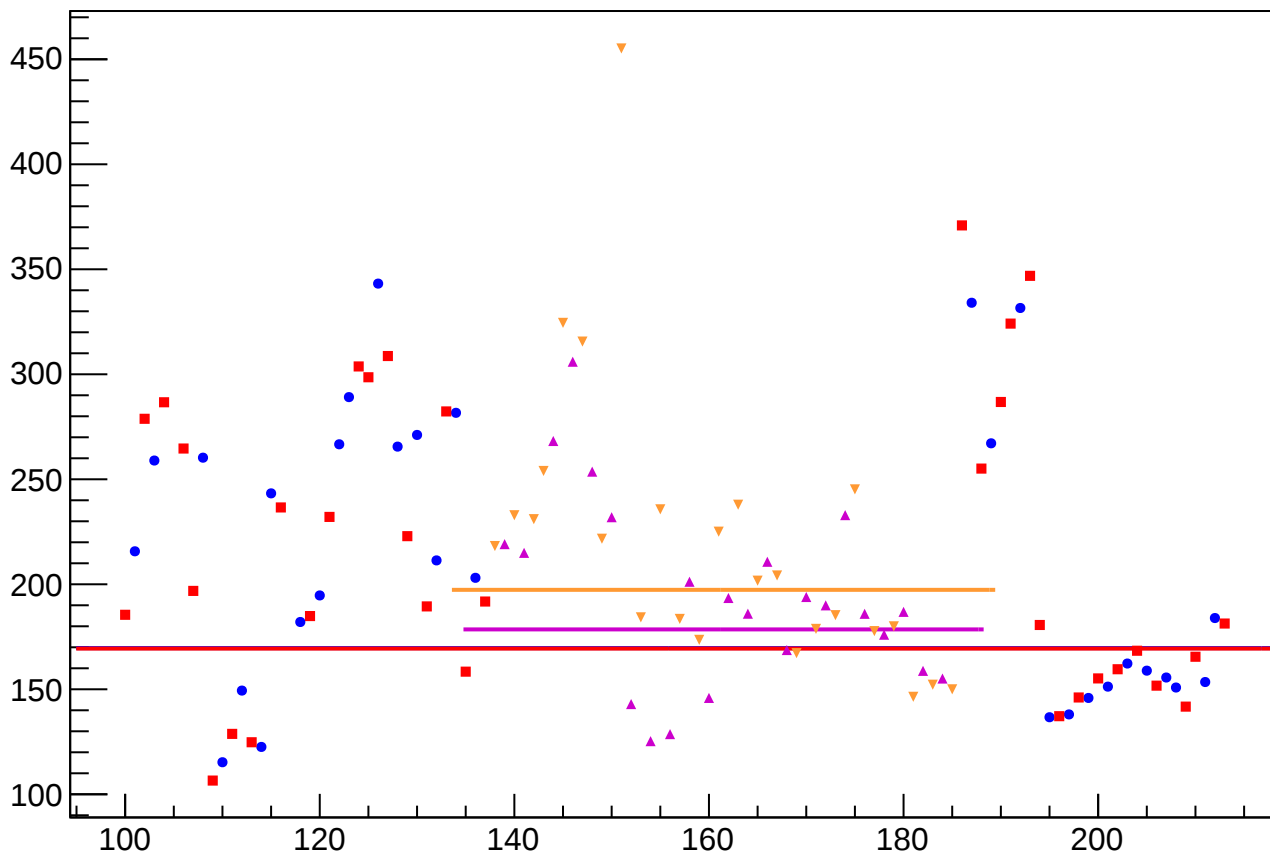
Right: -60.590 ± 30.965 χ^2/NDF : 31.1/63

In: -15.874 ± 31.501 χ^2/NDF : 25.2/52

Out: -27.943 ± 32.005 χ^2/NDF : 23.7/58

All: -21.813 ± 22.450 χ^2/NDF : 48.9/111

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.601 $\pm$ 0.031 χ^2 /NDF: 2132077.2/29

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF: 1790824.5/24

Right Out: 169.387 $\pm$ 0.031 χ^2 /NDF: 2835303.9/33

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

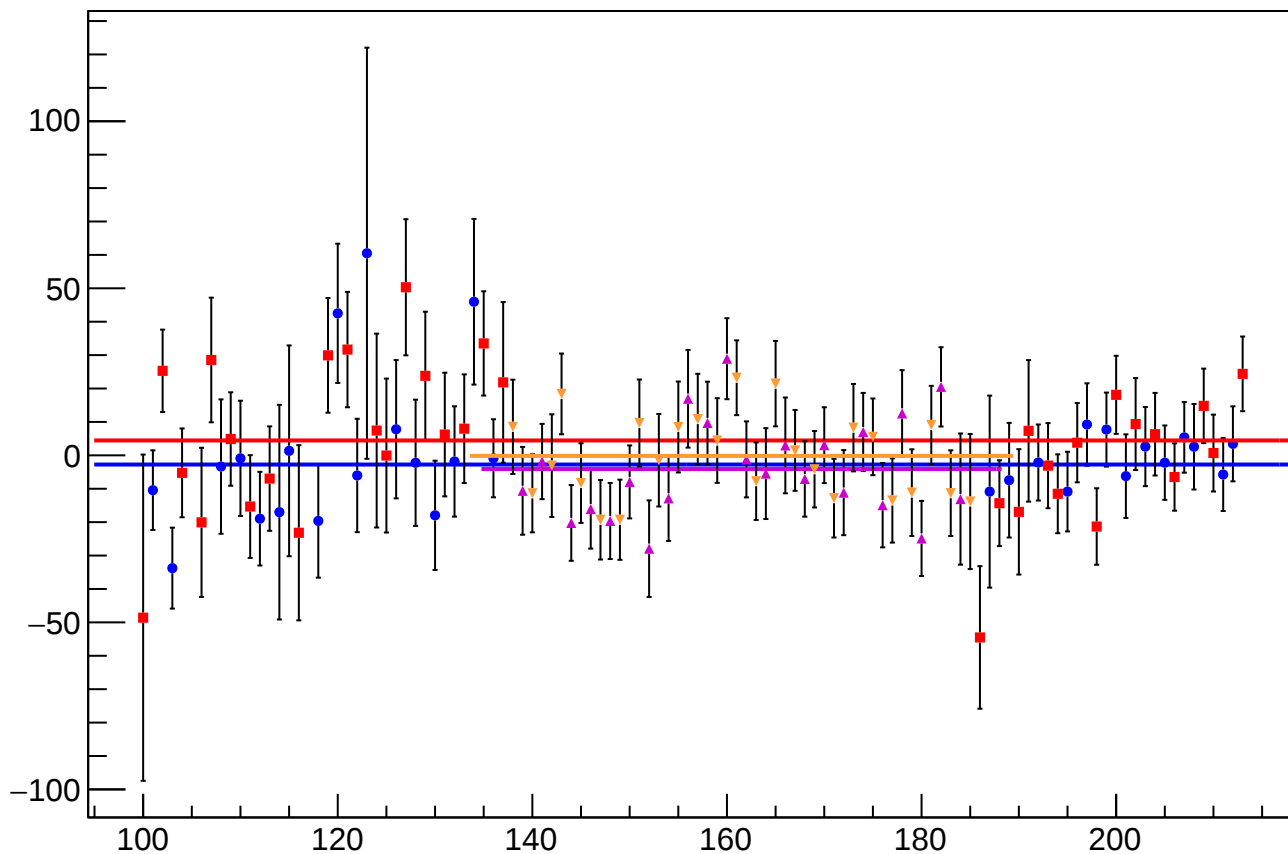
Right: 169.491 $\pm$ 0.022 χ^2 /NDF: 4967404.9/63

In: 174.030 $\pm$ 0.022 χ^2 /NDF: 3814395.7/52

Out: 181.998 $\pm$ 0.023 χ^2 /NDF: 5004278.8/58

All: 177.951 $\pm$ 0.016 χ^2 /NDF: 8881642.1/111

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.754 ± 2.628 $\chi^2/\text{NDF}: 24.2/29$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 4.453 ± 2.549 $\chi^2/\text{NDF}: 50.8/33$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

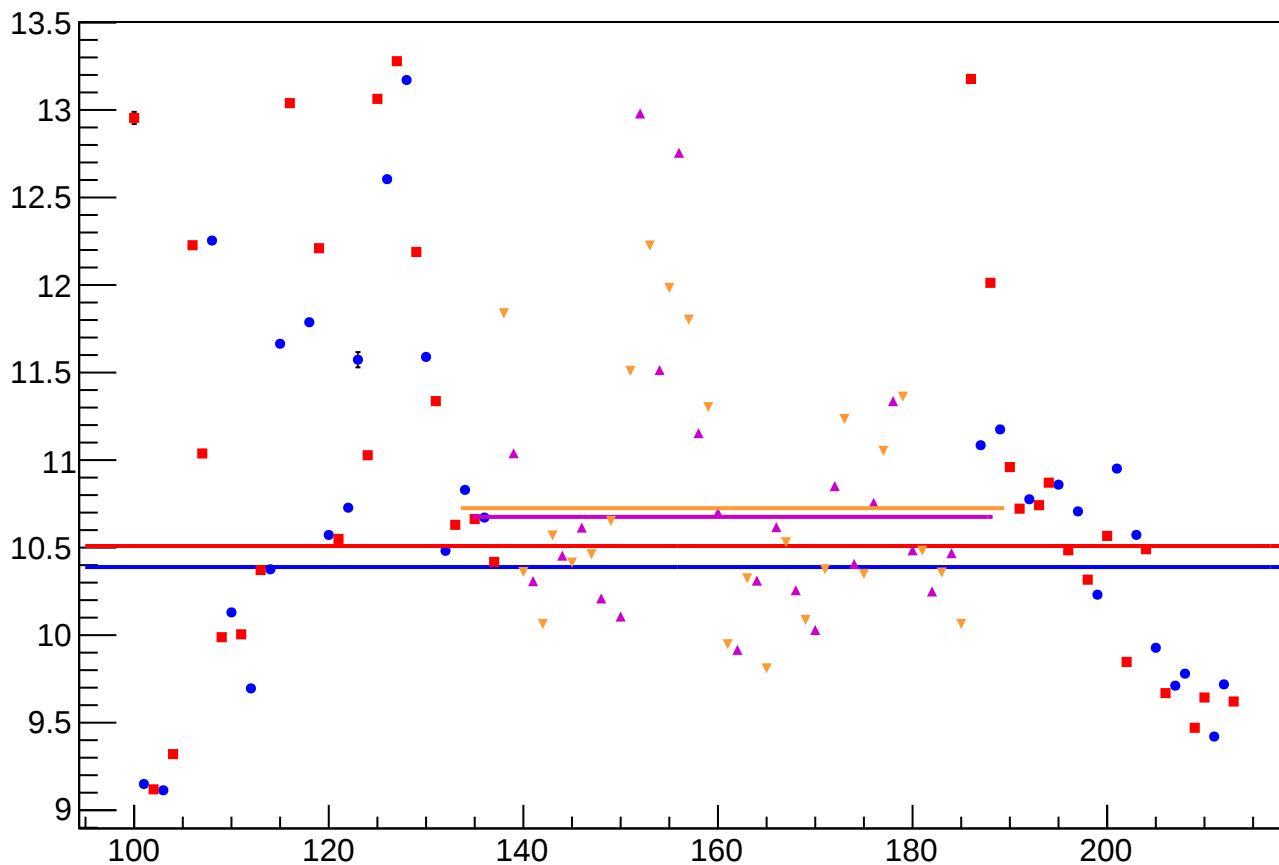
Right: 0.959 ± 1.830 $\chi^2/\text{NDF}: 78.9/63$

In: -3.443 ± 1.840 $\chi^2/\text{NDF}: 55.9/52$

Out: 2.115 ± 1.792 $\chi^2/\text{NDF}: 76.8/58$

All: -0.591 ± 1.284 $\chi^2/\text{NDF}: 137.4/111$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.389 ± 0.002 $\chi^2/\text{NDF}: 219859.6/29$

Left Out: 10.725 ± 0.002 $\chi^2/\text{NDF}: 132170.8/24$

Right Out: 10.509 ± 0.002 $\chi^2/\text{NDF}: 308065.3/33$

Left In: 10.675 ± 0.002 $\chi^2/\text{NDF}: 145938.2/22$

Left: 10.701 ± 0.001 $\chi^2/\text{NDF}: 278494.3/47$

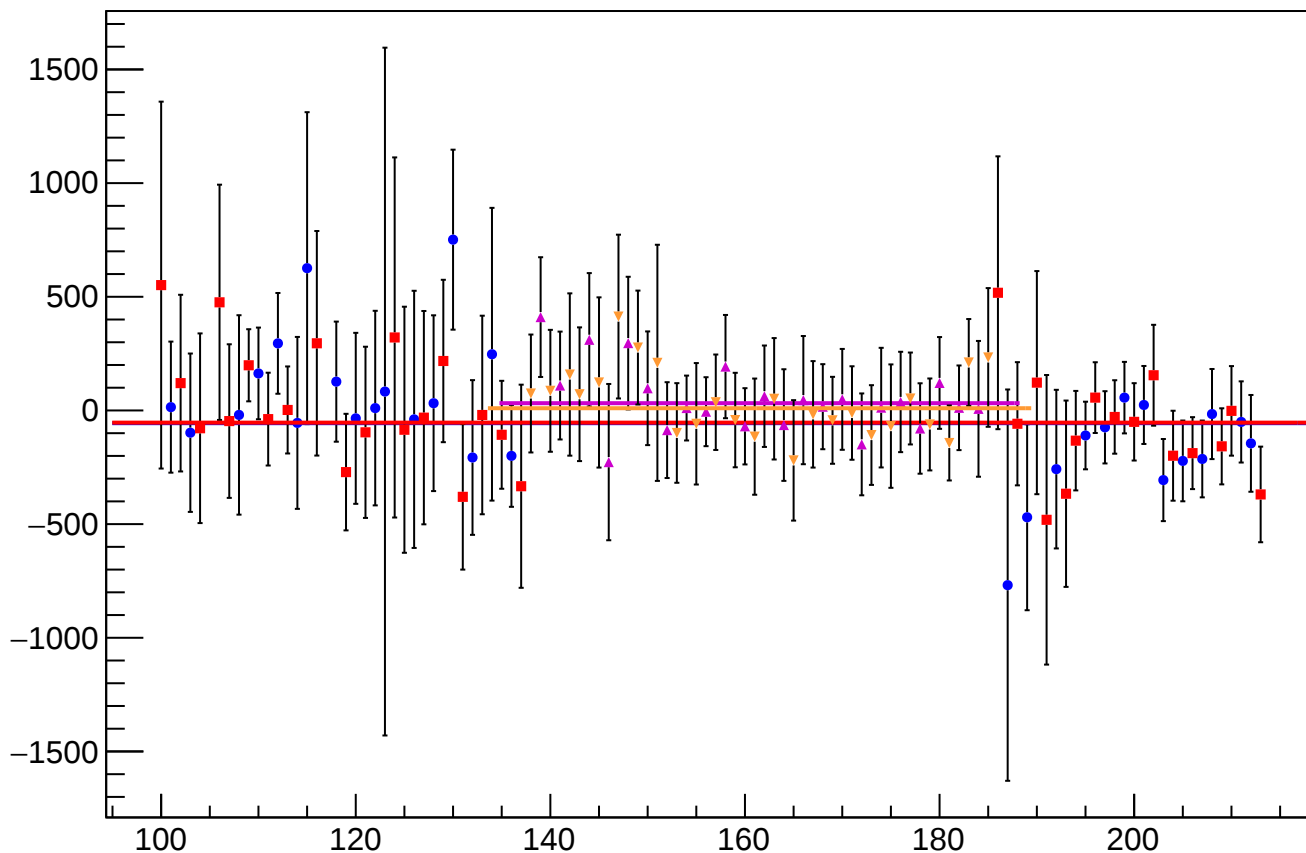
Right: 10.451 ± 0.001 $\chi^2/\text{NDF}: 530082.0/63$

In: 10.535 ± 0.001 $\chi^2/\text{NDF}: 377908.3/52$

Out: 10.619 ± 0.001 $\chi^2/\text{NDF}: 447512.4/58$

All: 10.578 ± 0.001 $\chi^2/\text{NDF}: 827538.0/111$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.962 ± 44.498 $\chi^2/\text{NDF}: 17.1/29$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -53.606 ± 43.319 $\chi^2/\text{NDF}: 15.5/33$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

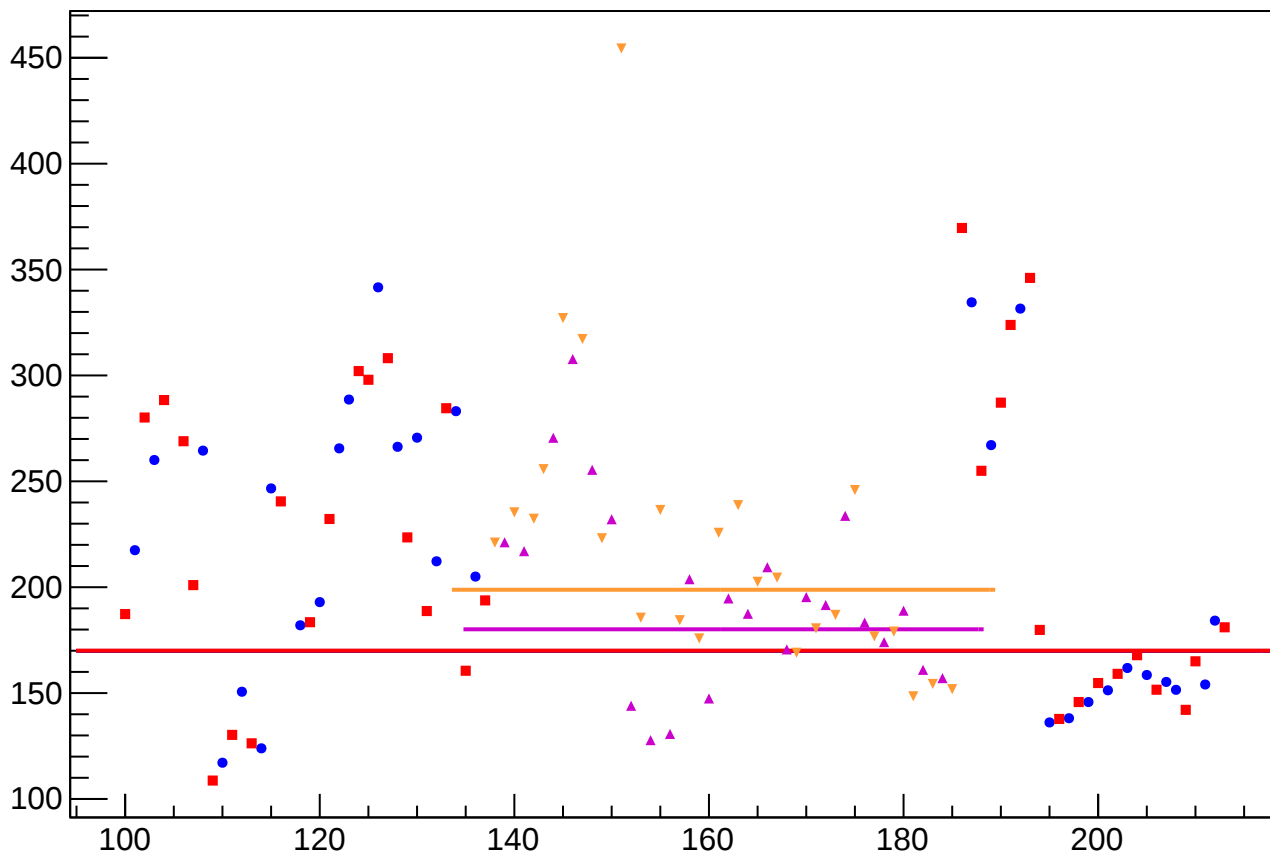
Right: -54.752 ± 31.040 $\chi^2/\text{NDF}: 32.6/63$

In: -12.518 ± 31.654 $\chi^2/\text{NDF}: 26.2/52$

Out: -25.130 ± 32.153 $\chi^2/\text{NDF}: 24.0/58$

All: -18.725 ± 22.557 $\chi^2/\text{NDF}: 50.3/111$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.912 $\pm$ 0.031 χ^2 /NDF: 2130432.7/29

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 170.028 $\pm$ 0.031 χ^2 /NDF: 2794396.8/33

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

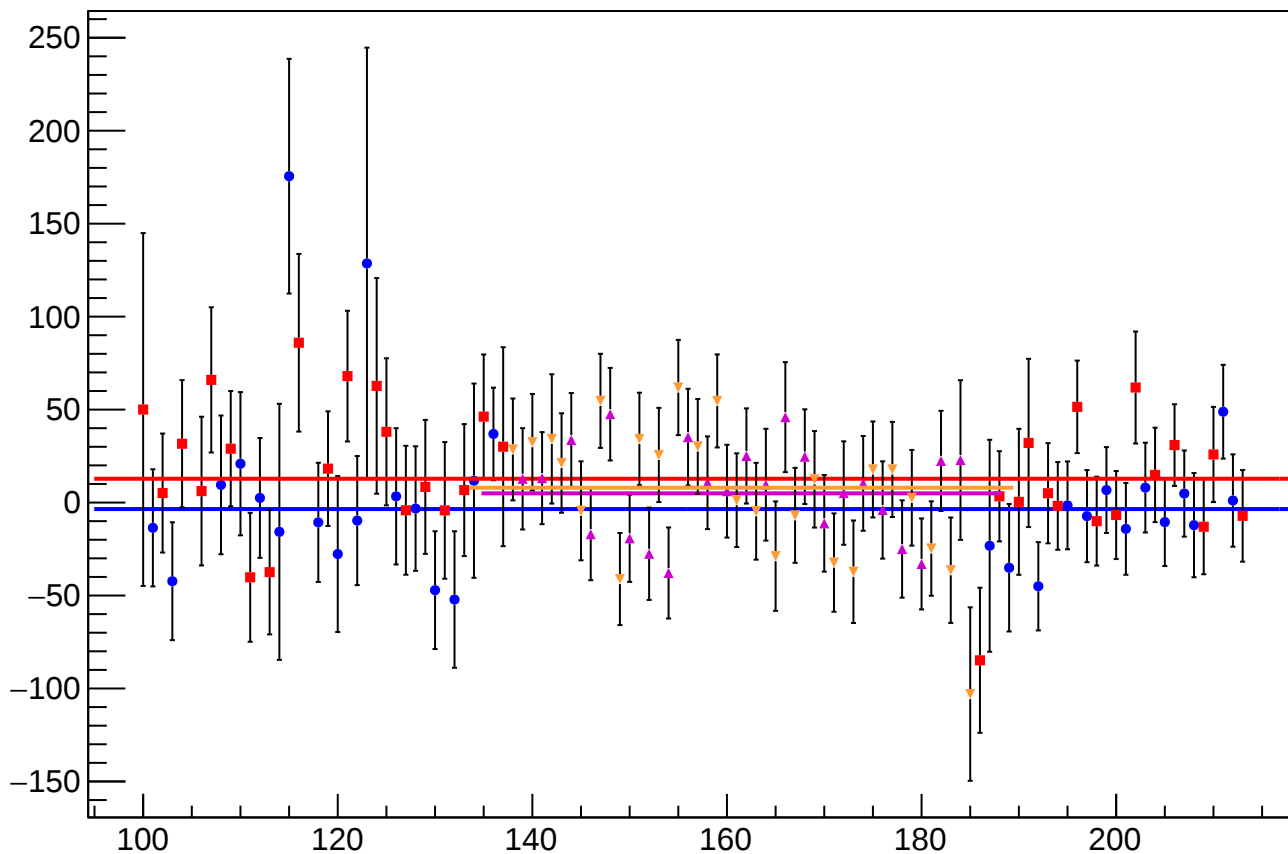
Right: 169.972 $\pm$ 0.022 χ^2 /NDF: 4924836.5/63

In: 174.956 $\pm$ 0.022 χ^2 /NDF:3776296.8/52

Out: 182.950 $\pm$ 0.023 χ^2 /NDF:4953752.6/58

All: 178.890 $\pm$ 0.016 χ^2 /NDF: 8792823.7/111

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.498 ± 5.562 χ^2/NDF : 27.7/29

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 12.813 ± 5.357 χ^2/NDF : 31.3/33

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

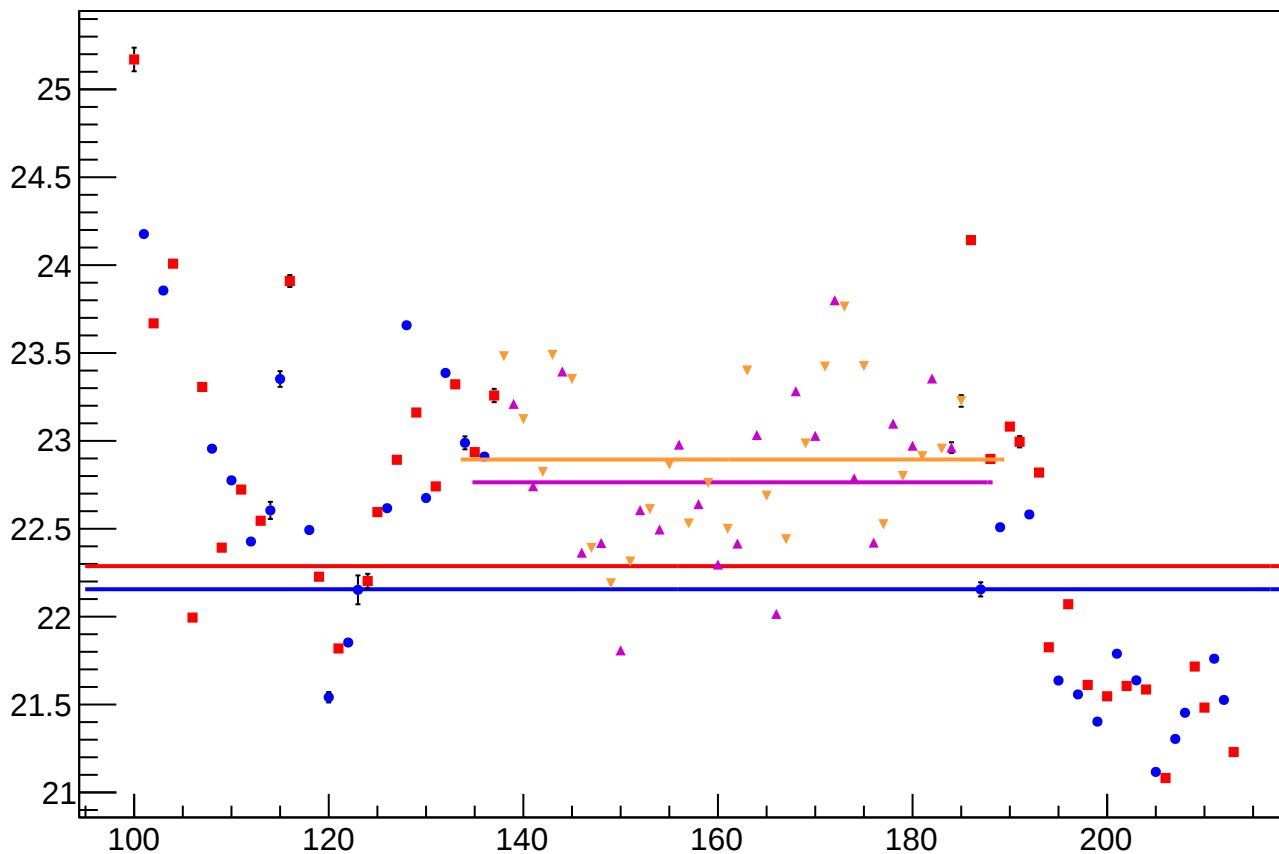
Right: 4.963 ± 3.858 χ^2/NDF : 63.4/63

In: 0.828 ± 3.891 χ^2/NDF : 49.3/52

Out: 10.388 ± 3.777 χ^2/NDF : 69.1/58

All: 5.749 ± 2.710 χ^2/NDF : 121.6/111

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.156 $\pm$ 0.004 χ^2 /NDF: 42714.0/29

Left Out: 22.894 $\pm$ 0.004 χ^2 /NDF:13070.5/24

Right Out: 22.287 $\pm$ 0.004 χ^2 /NDF: 48137.5/33

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

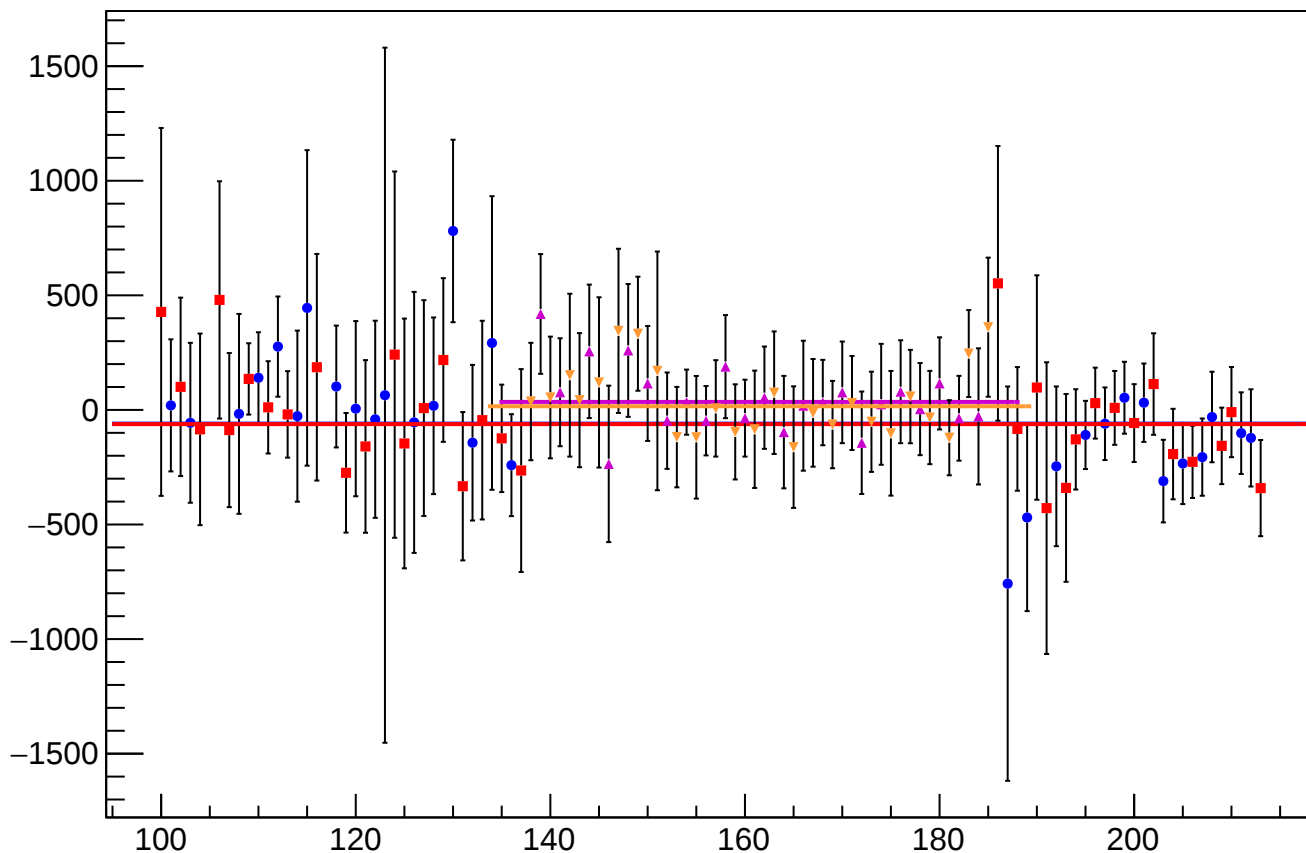
Right: 22.224 $\pm$ 0.003 χ^2 /NDF: 91431.6/63

In: 22.467 $\pm$ 0.003 χ^2 /NDF:69598.0/52

Out: 22.592 $\pm$ 0.003 χ^2 /NDF:74104.2/58

All: 22.531 $\pm$ 0.002 χ^2 /NDF: 144780.1/111

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.829 ± 44.367 $\chi^2/\text{NDF}: 16.6/29$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -62.073 ± 43.137 $\chi^2/\text{NDF}: 13.1/33$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

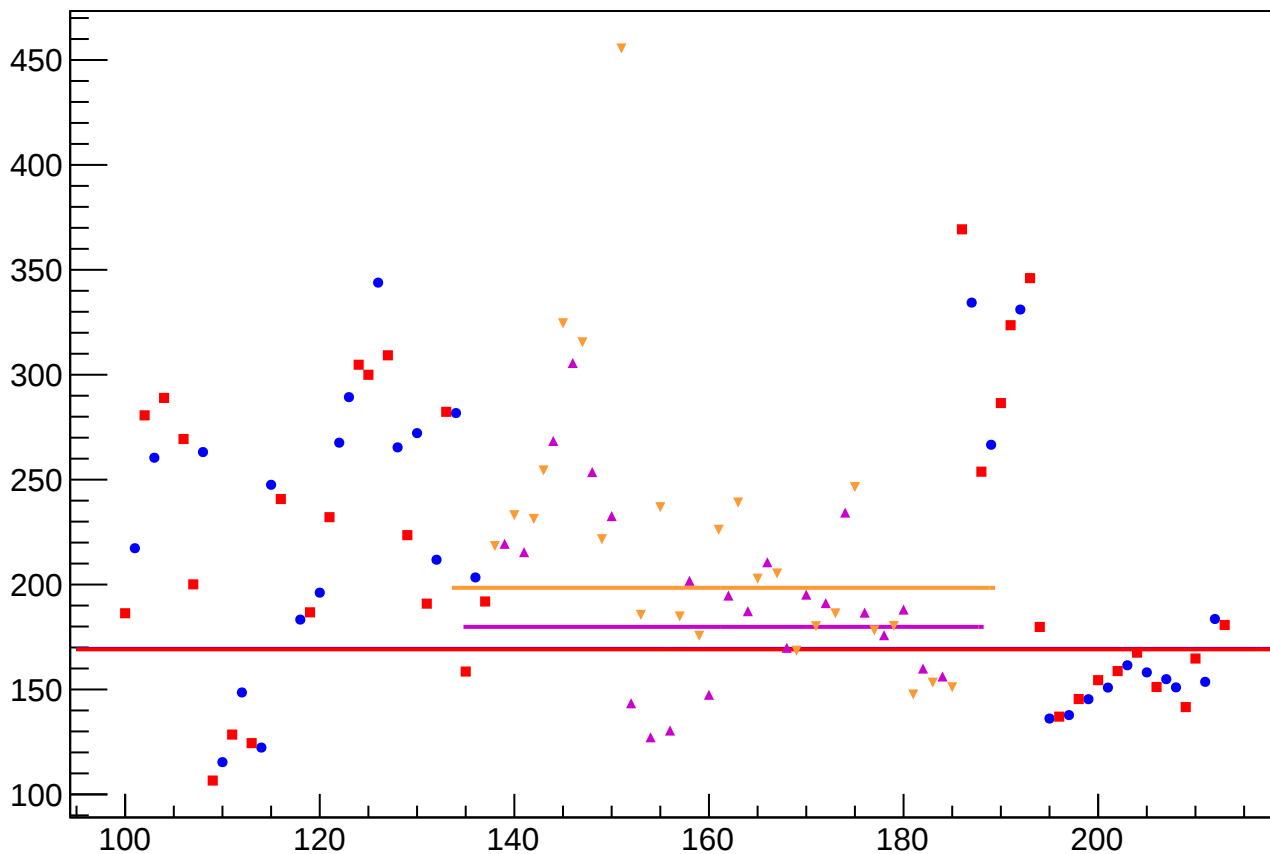
Right: -60.983 ± 30.928 $\chi^2/\text{NDF}: 29.7/63$

In: -13.095 ± 31.584 $\chi^2/\text{NDF}: 25.4/52$

Out: -27.152 ± 32.054 $\chi^2/\text{NDF}: 23.0/58$

All: -20.020 ± 22.497 $\chi^2/\text{NDF}: 48.6/111$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.338 +/- 0.031 χ^2/NDF : 2160580.1/29

Left Out: 198.450 +/- 0.034 χ^2/NDF : 1761433.9/24

Right Out: 169.121 +/- 0.031 χ^2/NDF : 2862538.5/33

Left In: 179.839 +/- 0.032 χ^2/NDF : 1588834.3/22

Left: 188.558 +/- 0.023 χ^2/NDF : 3510745.5/47

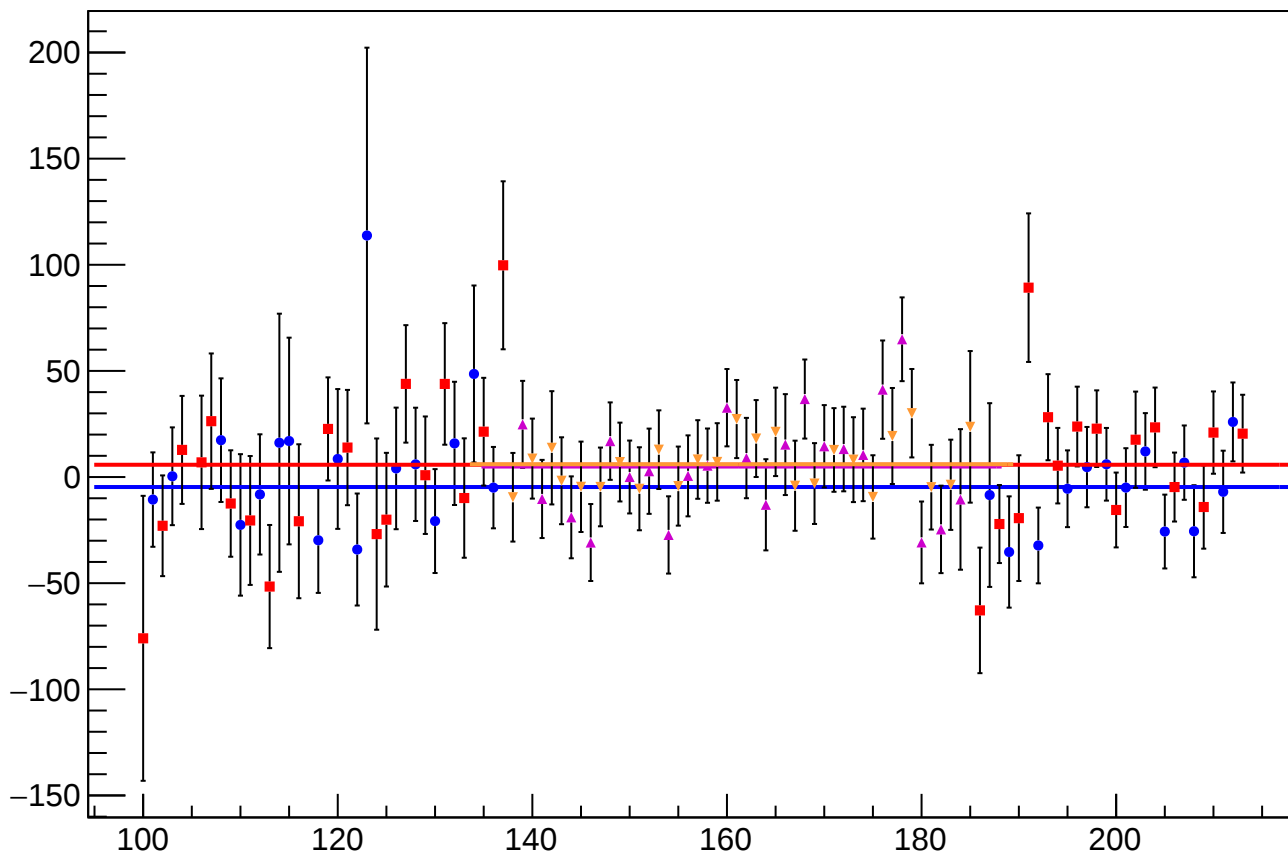
Right: 169.226 +/- 0.022 χ^2/NDF : 5023143.4/63

In: 174.518 +/- 0.022 χ^2/NDF : 3804673.3/52

Out: 182.255 +/- 0.023 χ^2/NDF : 5038019.1/58

All: 178.329 +/- 0.016 χ^2/NDF : 8901825.1/111

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.702 ± 4.247 χ^2/NDF : 19.1/29

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 5.788 ± 4.097 χ^2/NDF : 43.4/33

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

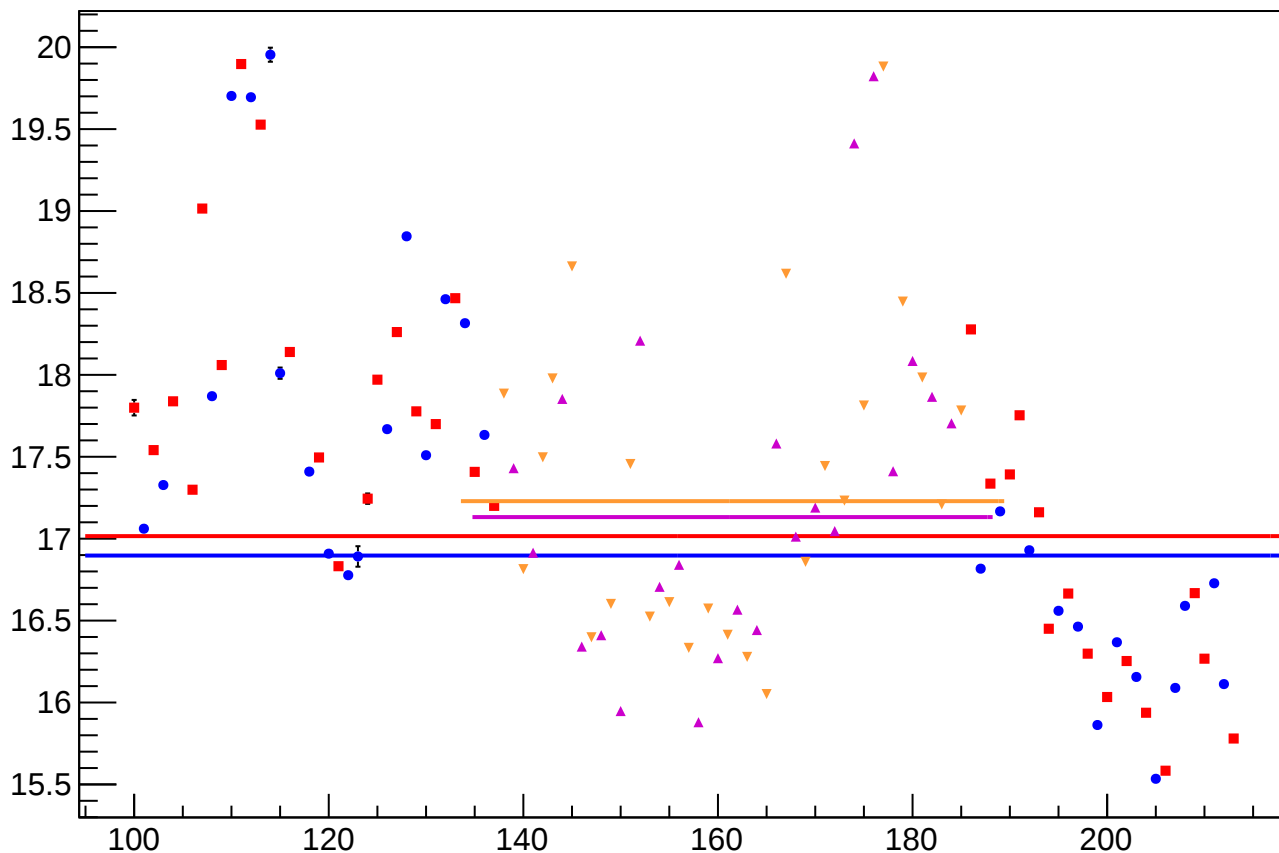
Right: 0.733 ± 2.949 χ^2/NDF : 65.7/63

In: 0.282 ± 2.953 χ^2/NDF : 56.6/52

Out: 5.906 ± 2.868 χ^2/NDF : 51.5/58

All: 3.176 ± 2.057 χ^2/NDF : 110.0/111

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.897 $\pm$ 0.003 χ^2 /NDF: 103098.0/29

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 17.016 $\pm$ 0.003 χ^2 /NDF: 119833.8/33

Left In: 17.132 $\pm$ 0.003 χ^2 /NDF:103997.3/22

Left: 17.182 $\pm$ 0.002 χ^2 /NDF: 203195.4/47

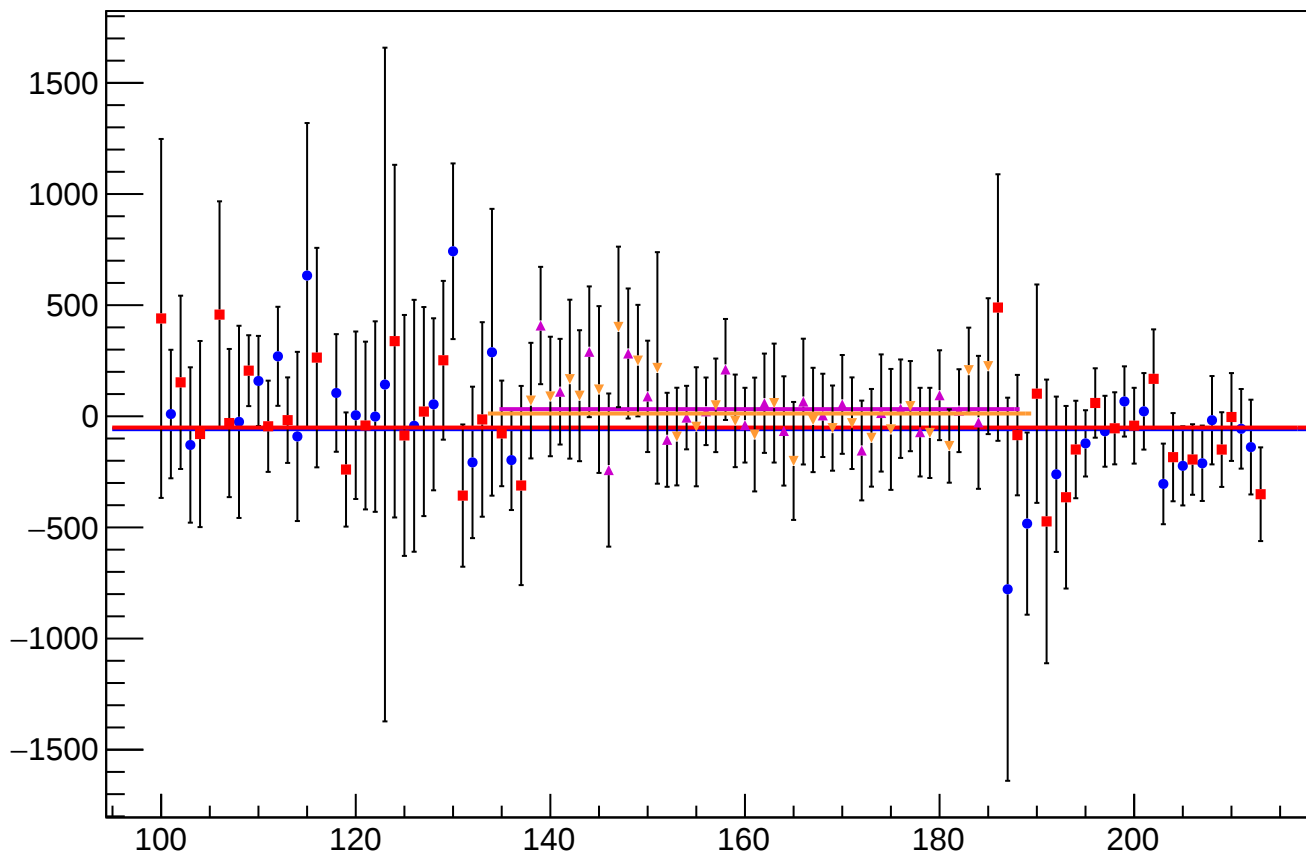
Right: 16.958 $\pm$ 0.002 χ^2 /NDF: 223739.8/63

In: 17.018 $\pm$ 0.002 χ^2 /NDF:210253.8/52

Out: 17.124 $\pm$ 0.002 χ^2 /NDF:221227.3/58

All: 17.073 $\pm$ 0.001 χ^2 /NDF: 432810.1/111

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.992 ± 44.630 $\chi^2/\text{NDF}: 16.8/29$

Left Out: 12.474 ± 48.086 $\chi^2/\text{NDF}: 6.8/24$

Right Out: -50.677 ± 43.433 $\chi^2/\text{NDF}: 14.8/33$

Left In: 32.159 ± 45.131 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.940 ± 32.908 $\chi^2/\text{NDF}: 13.9/47$

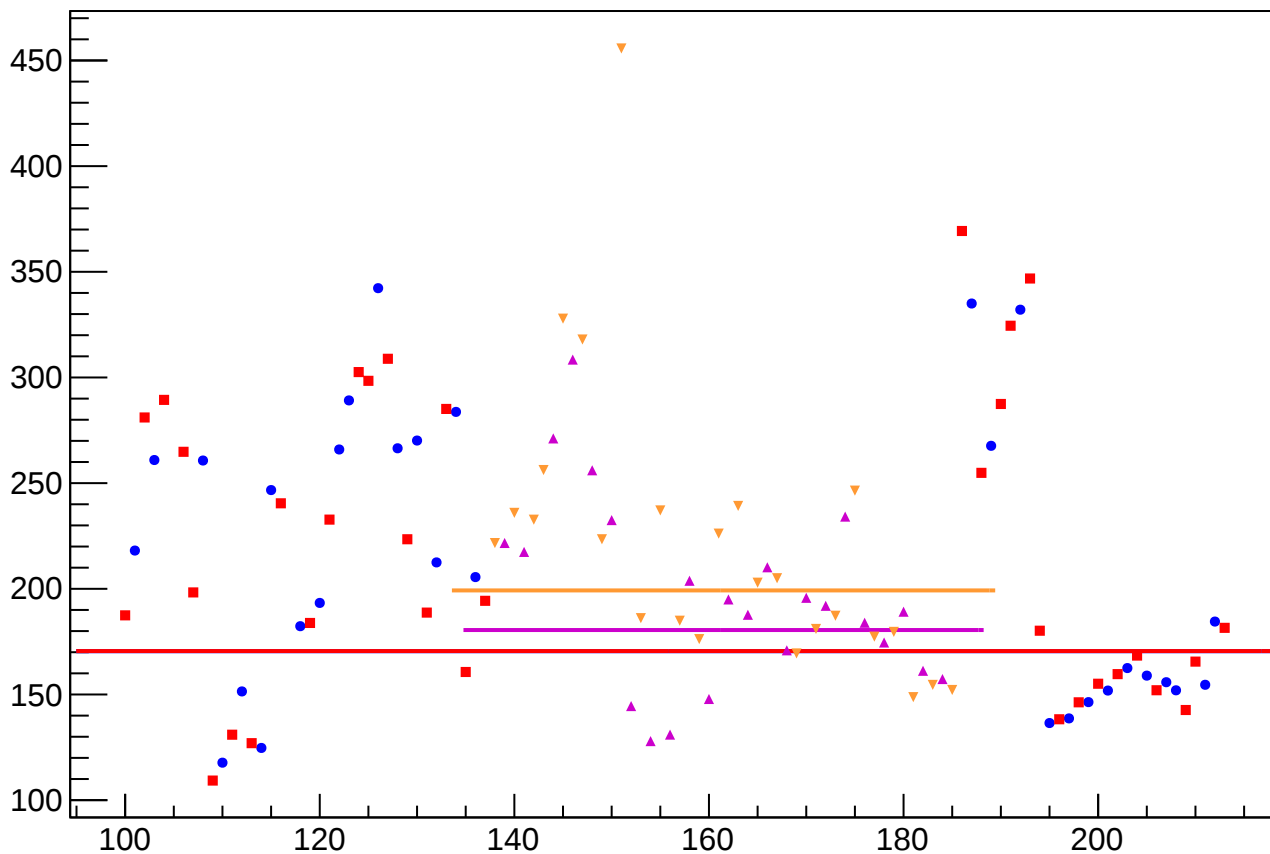
Right: -54.235 ± 31.127 $\chi^2/\text{NDF}: 31.6/63$

In: -13.420 ± 31.734 $\chi^2/\text{NDF}: 25.7/52$

Out: -22.303 ± 32.232 $\chi^2/\text{NDF}: 22.6/58$

All: -17.792 ± 22.613 $\chi^2/\text{NDF}: 48.4/111$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.470 ± 0.032 χ^2/NDF : 2112079.6/29

Left Out: 199.241 ± 0.034 χ^2/NDF : 1764097.7/24

Right Out: 170.541 ± 0.031 χ^2/NDF : 2769712.8/33

Left In: 180.494 ± 0.032 χ^2/NDF : 1593784.1/22

Left: 189.274 ± 0.023 χ^2/NDF : 3519511.1/47

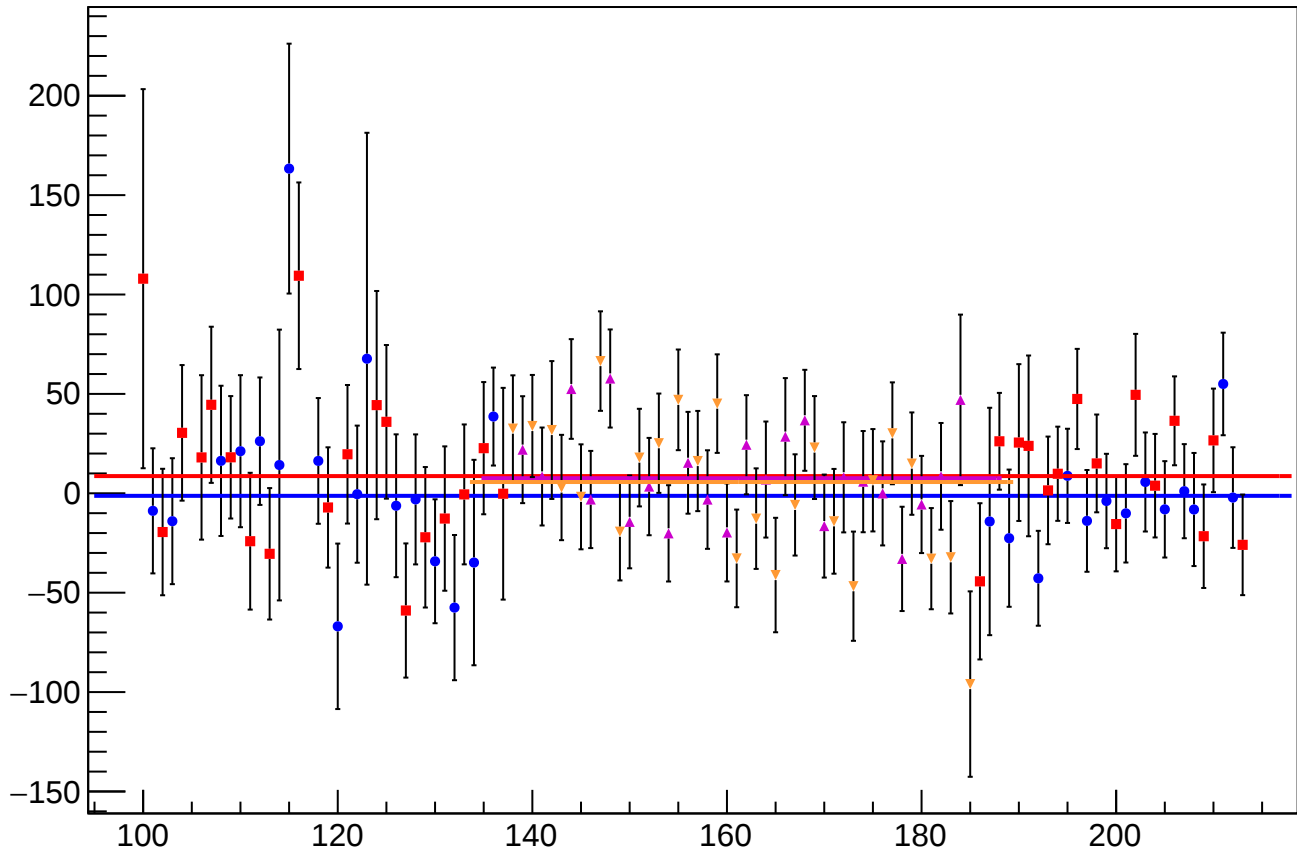
Right: 170.506 ± 0.022 χ^2/NDF : 4881795.0/63

In: 175.426 ± 0.022 χ^2/NDF : 3755748.4/52

Out: 183.436 ± 0.023 χ^2/NDF : 4926156.9/58

All: 179.368 ± 0.016 χ^2/NDF : 8744631.0/111

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.278 ± 5.603 χ^2/NDF : 27.1/29

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 8.659 ± 5.384 χ^2/NDF : 30.0/33

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

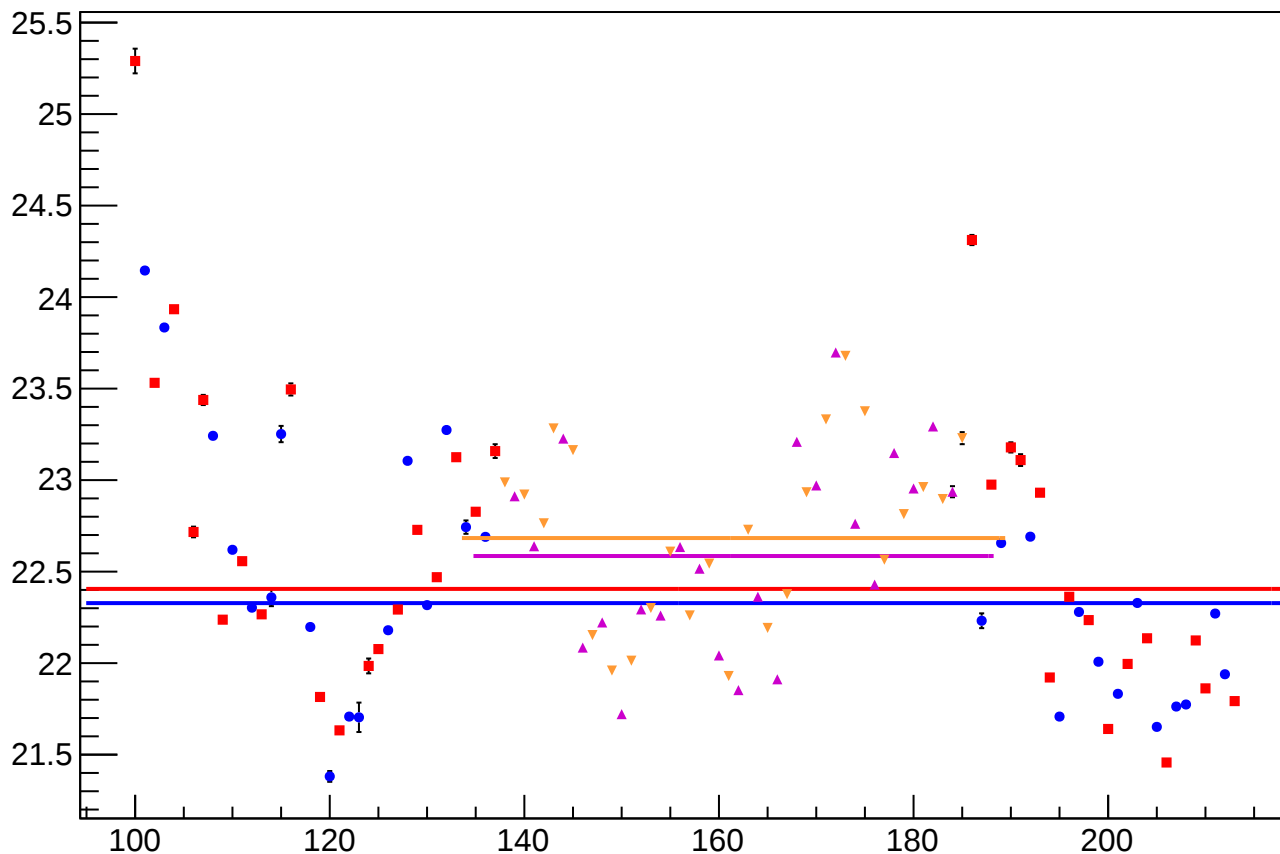
Right: 3.889 ± 3.882 χ^2/NDF : 58.8/63

In: 3.320 ± 3.889 χ^2/NDF : 46.7/52

Out: 7.136 ± 3.769 χ^2/NDF : 66.6/58

All: 5.288 ± 2.706 χ^2/NDF : 113.8/111

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.328 $\pm$ 0.004 χ^2/NDF : 24882.7/29

Left Out: 22.683 $\pm$ 0.004 χ^2/NDF : 16318.1/24

Right Out: 22.406 $\pm$ 0.004 χ^2/NDF : 32066.3/33

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

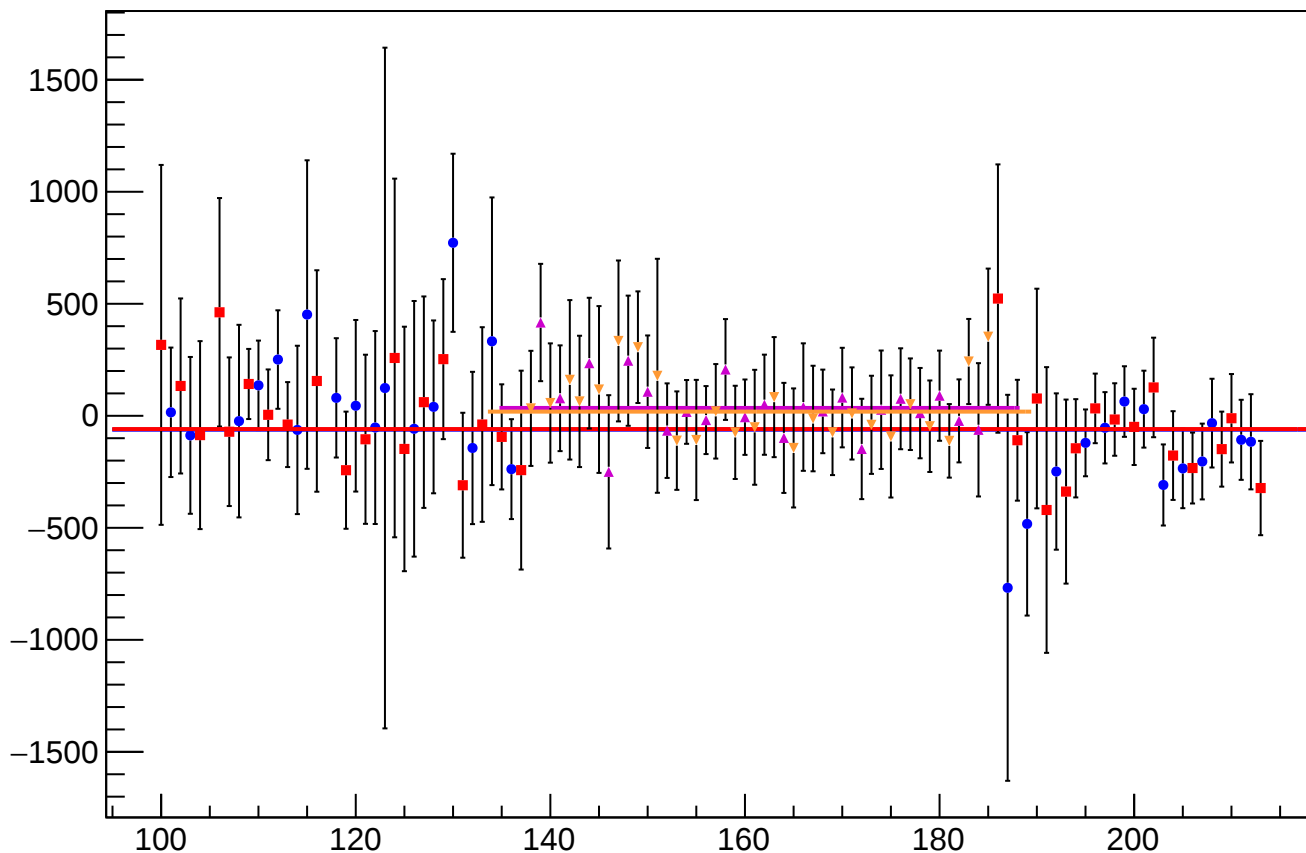
Right: 22.368 $\pm$ 0.003 χ^2/NDF : 57148.7/63

In: 22.461 $\pm$ 0.003 χ^2/NDF : 45156.1/52

Out: 22.547 $\pm$ 0.003 χ^2/NDF : 51100.5/58

All: 22.506 $\pm$ 0.002 χ^2/NDF : 96760.6/111

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.931 ± 44.501 $\chi^2/\text{NDF}: 16.3/29$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -59.201 ± 43.252 $\chi^2/\text{NDF}: 12.4/33$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

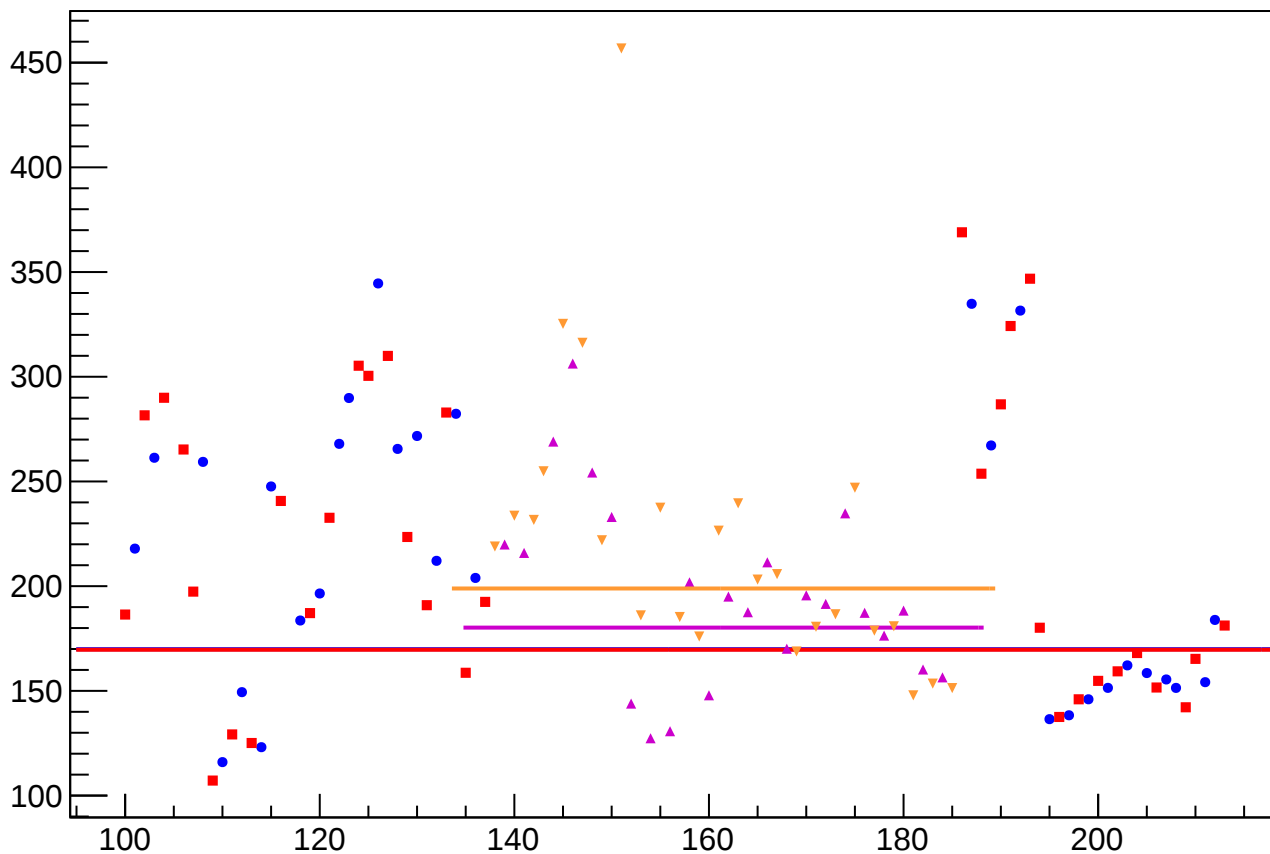
Right: -60.527 ± 31.016 $\chi^2/\text{NDF}: 28.7/63$

In: -14.051 ± 31.664 $\chi^2/\text{NDF}: 25.0/52$

Out: -24.327 ± 32.134 $\chi^2/\text{NDF}: 21.4/58$

All: -19.114 ± 22.554 $\chi^2/\text{NDF}: 46.4/111$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.901 $\pm$ 0.031 χ^2 /NDF: 2141646.4/29

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 169.641 $\pm$ 0.031 χ^2 /NDF: 2836948.8/33

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

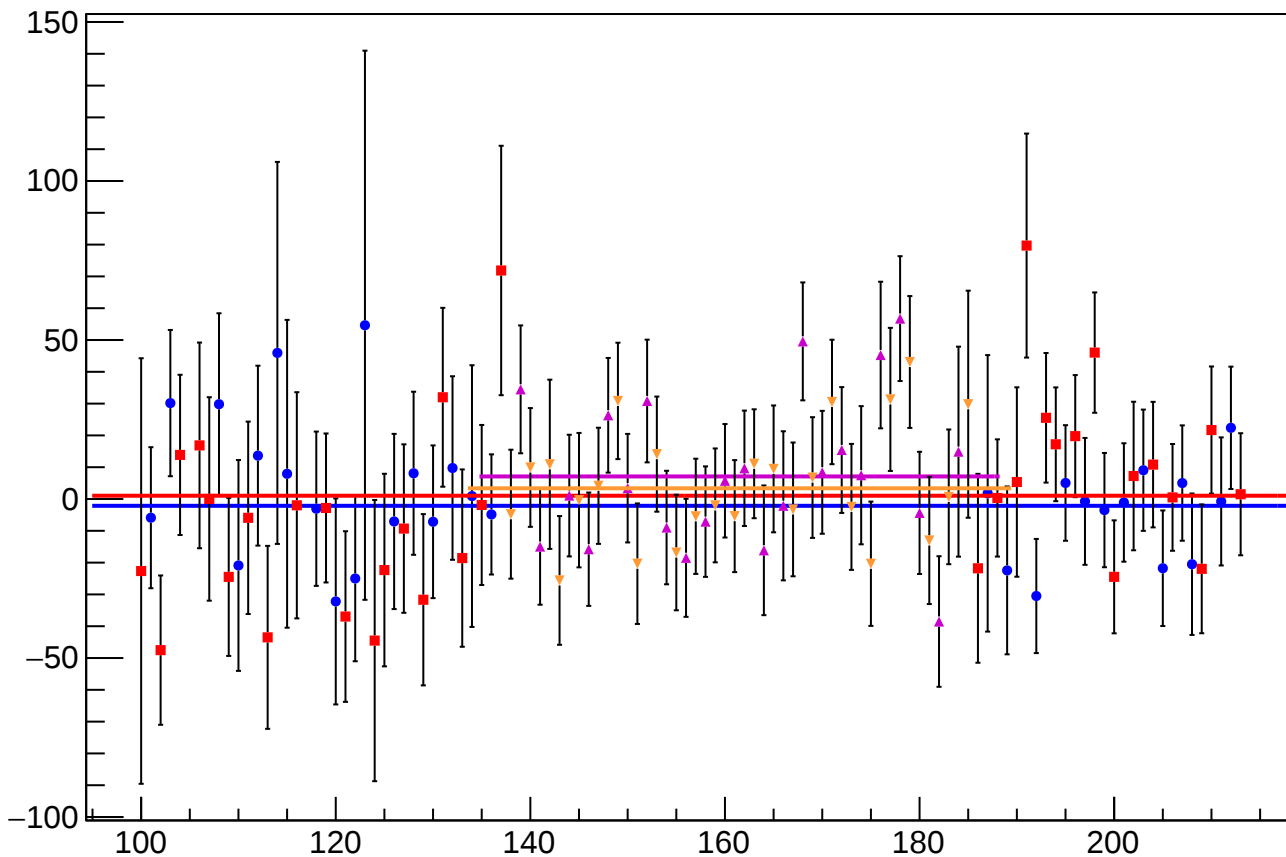
Right: 169.767 $\pm$ 0.022 χ^2 /NDF: 4978630.3/63

In: 174.989 $\pm$ 0.022 χ^2 /NDF:3783617.4/52

Out: 182.746 $\pm$ 0.023 χ^2 /NDF:5009222.5/58

All: 178.811 $\pm$ 0.016 χ^2 /NDF: 8851970.2/111

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.139 ± 4.302 $\chi^2/\text{NDF}: 14.3/29$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 1.035 ± 4.135 $\chi^2/\text{NDF}: 37.9/33$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

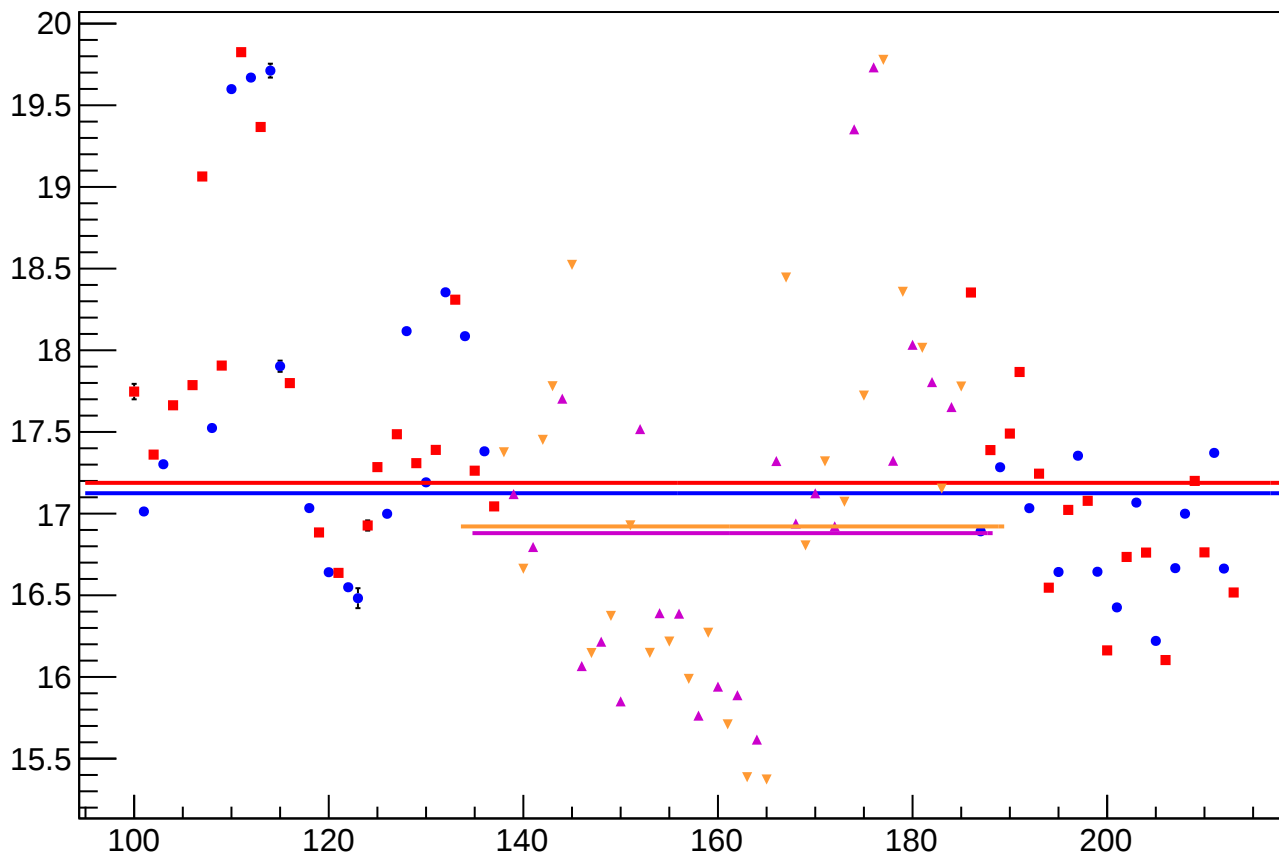
Right: -0.489 ± 2.981 $\chi^2/\text{NDF}: 52.5/63$

In: 2.761 ± 2.948 $\chi^2/\text{NDF}: 49.3/52$

Out: 2.258 ± 2.855 $\chi^2/\text{NDF}: 56.9/58$

All: 2.501 ± 2.051 $\chi^2/\text{NDF}: 106.2/111$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.125 $\pm$ 0.003 χ^2 /NDF: 55696.8/29

Left Out: 16.921 $\pm$ 0.003 χ^2 /NDF:138990.4/24

Right Out: 17.188 $\pm$ 0.003 χ^2 /NDF: 69525.3/33

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

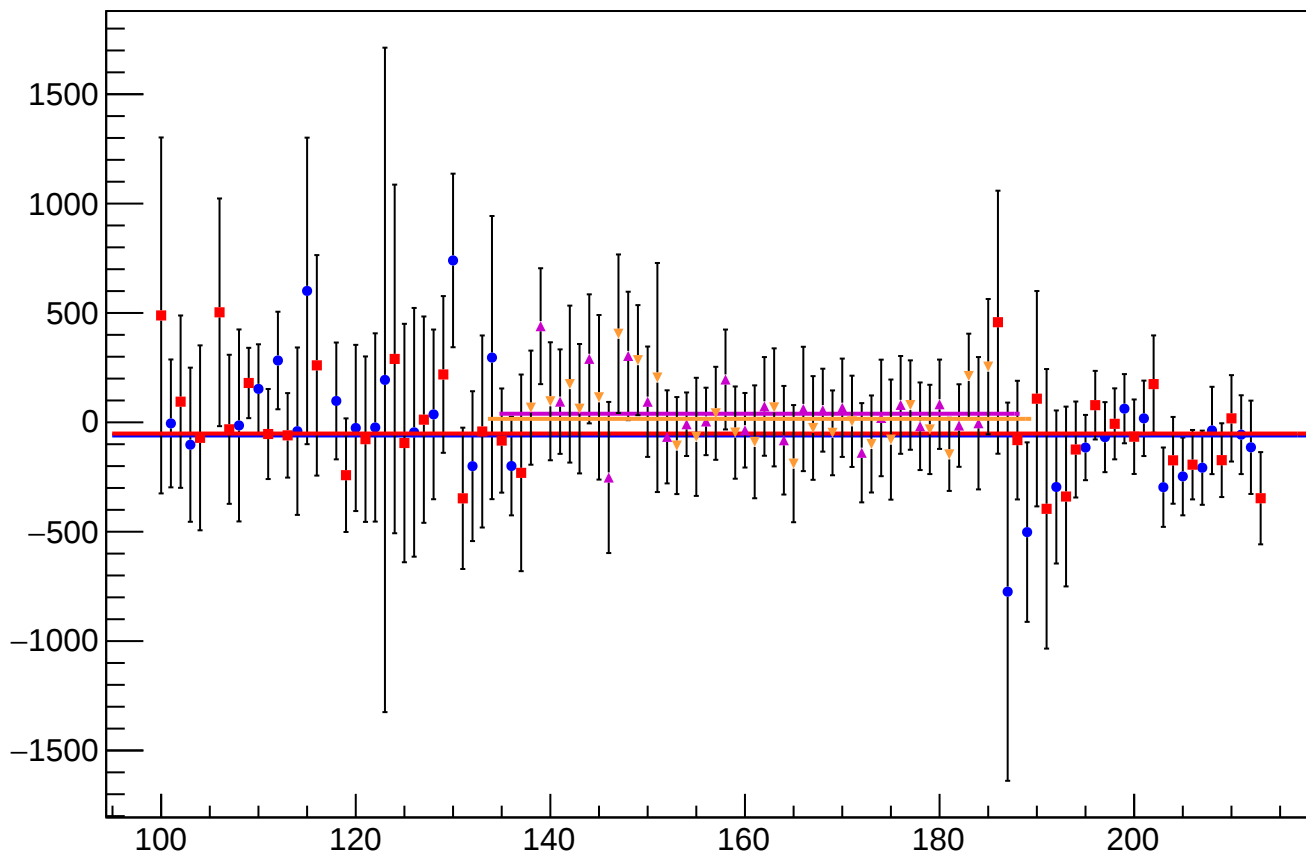
Right: 17.158 $\pm$ 0.002 χ^2 /NDF: 125448.6/63

In: 16.995 $\pm$ 0.002 χ^2 /NDF:180858.6/52

Out: 17.049 $\pm$ 0.002 χ^2 /NDF:212876.6/58

All: 17.023 $\pm$ 0.001 χ^2 /NDF: 394074.9/111

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.020 ± 44.761 χ^2/NDF : 16.7/29

Left Out: 15.970 ± 48.503 χ^2/NDF : 7.4/24

Right Out: -51.197 ± 43.572 χ^2/NDF : 13.8/33

Left In: 39.377 ± 45.571 χ^2/NDF : 6.9/22

Left: 28.402 ± 33.212 χ^2/NDF : 14.4/47

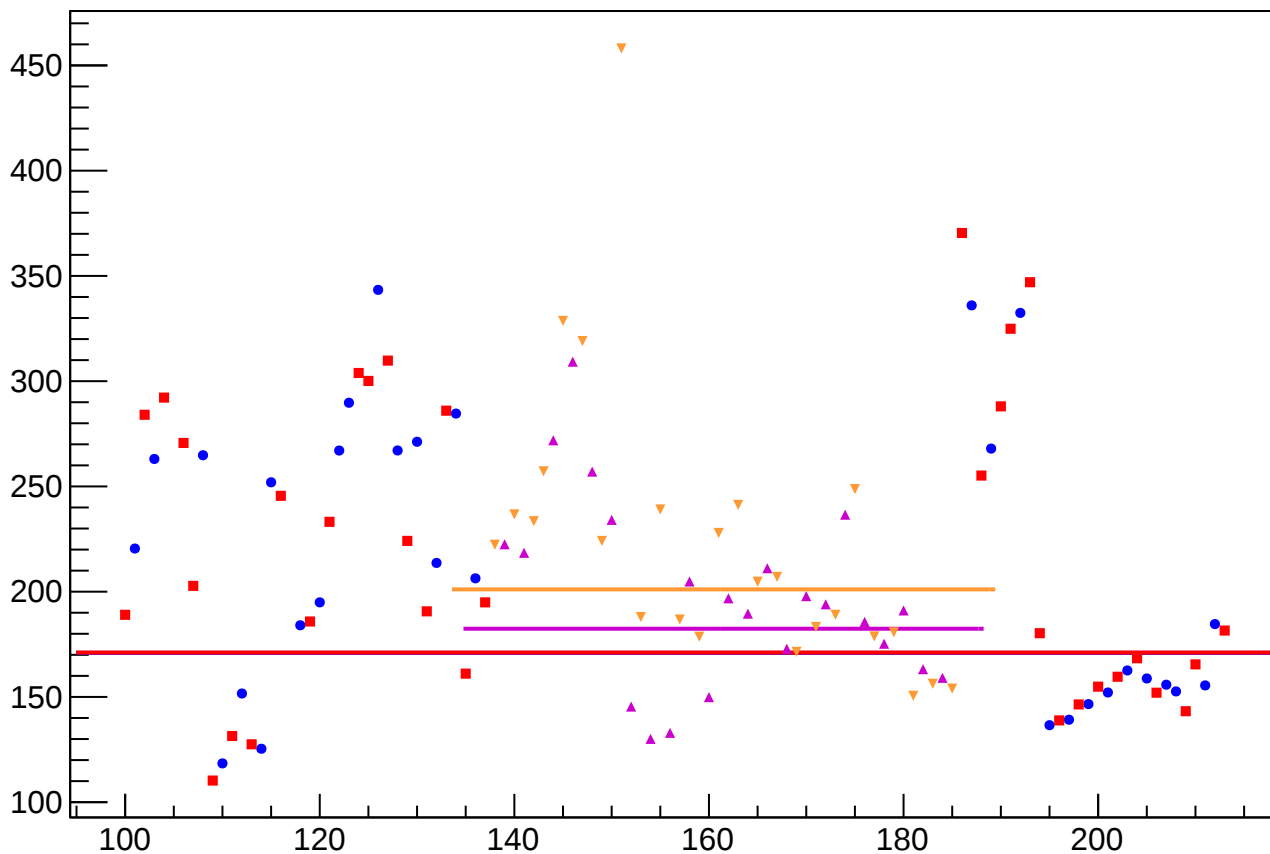
Right: -55.490 ± 31.222 χ^2/NDF : 30.5/63

In: -11.212 ± 31.933 χ^2/NDF : 26.0/52

Out: -21.201 ± 32.414 χ^2/NDF : 22.3/58

All: -16.132 ± 22.748 χ^2/NDF : 48.3/111

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.939 $\pm$ 0.032 χ^2 /NDF: 2126644.2/29

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 171.085 $\pm$ 0.031 χ^2 /NDF: 2779945.8/33

Left In: 182.396 $\pm$ 0.032 χ^2 /NDF:1548907.7/22

Left: 191.161 $\pm$ 0.023 χ^2 /NDF: 3437793.2/47

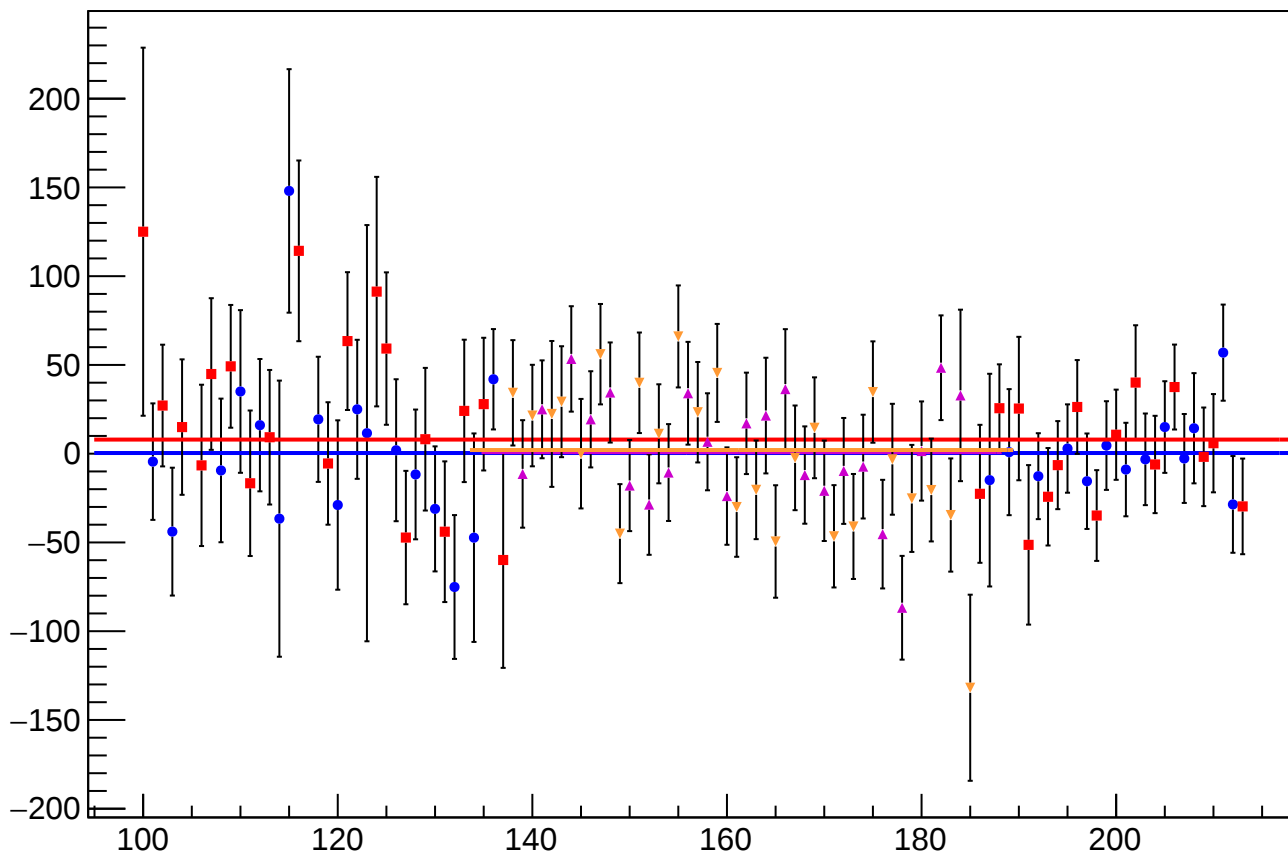
Right: 171.014 $\pm$ 0.022 χ^2 /NDF: 4906601.1/63

In: 176.565 $\pm$ 0.023 χ^2 /NDF:3739896.4/52

Out: 184.486 $\pm$ 0.023 χ^2 /NDF:4934603.3/58

All: 180.466 $\pm$ 0.016 χ^2 /NDF: 8735109.6/111

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.379 $\pm$ 6.047 χ^2 /NDF: 22.4/29

Left Out: 2.054 $\pm$ 5.970 χ^2 /NDF:39.4/24

Right Out: 7.947 $\pm$ 5.781 χ^2 /NDF: 32.4/33

Left In: 0.900 $\pm$ 6.069 χ^2 /NDF:27.1/22

Left: 1.487 $\pm$ 4.256 χ^2 /NDF: 66.5/47

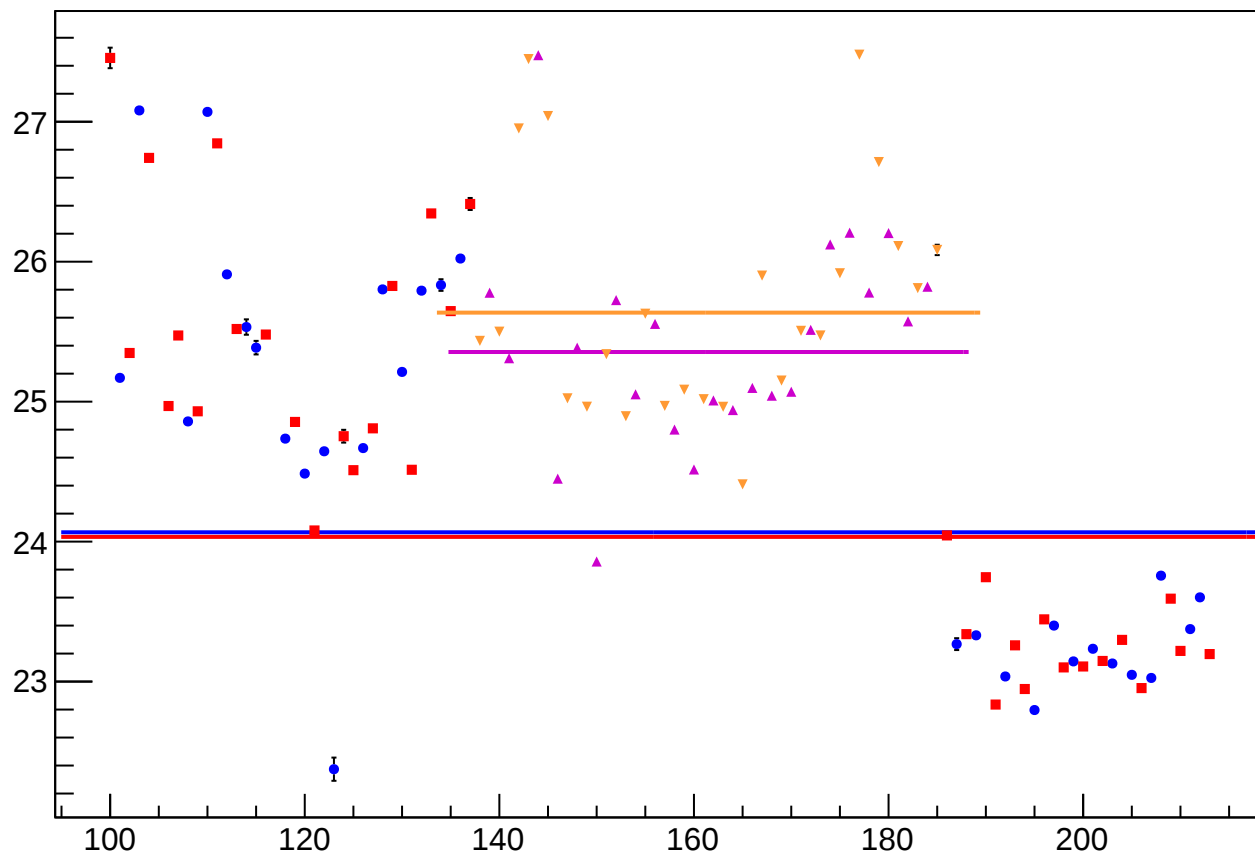
Right: 4.333 $\pm$ 4.179 χ^2 /NDF: 55.6/63

In: 0.639 $\pm$ 4.284 χ^2 /NDF:49.5/52

Out: 5.095 $\pm$ 4.153 χ^2 /NDF:72.3/58

All: 2.936 $\pm$ 2.982 χ^2 /NDF: 122.4/111

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.067 $\pm$ 0.004 χ^2 /NDF: 83081.8/29

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 24.034 $\pm$ 0.004 χ^2 /NDF: 79985.9/33

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

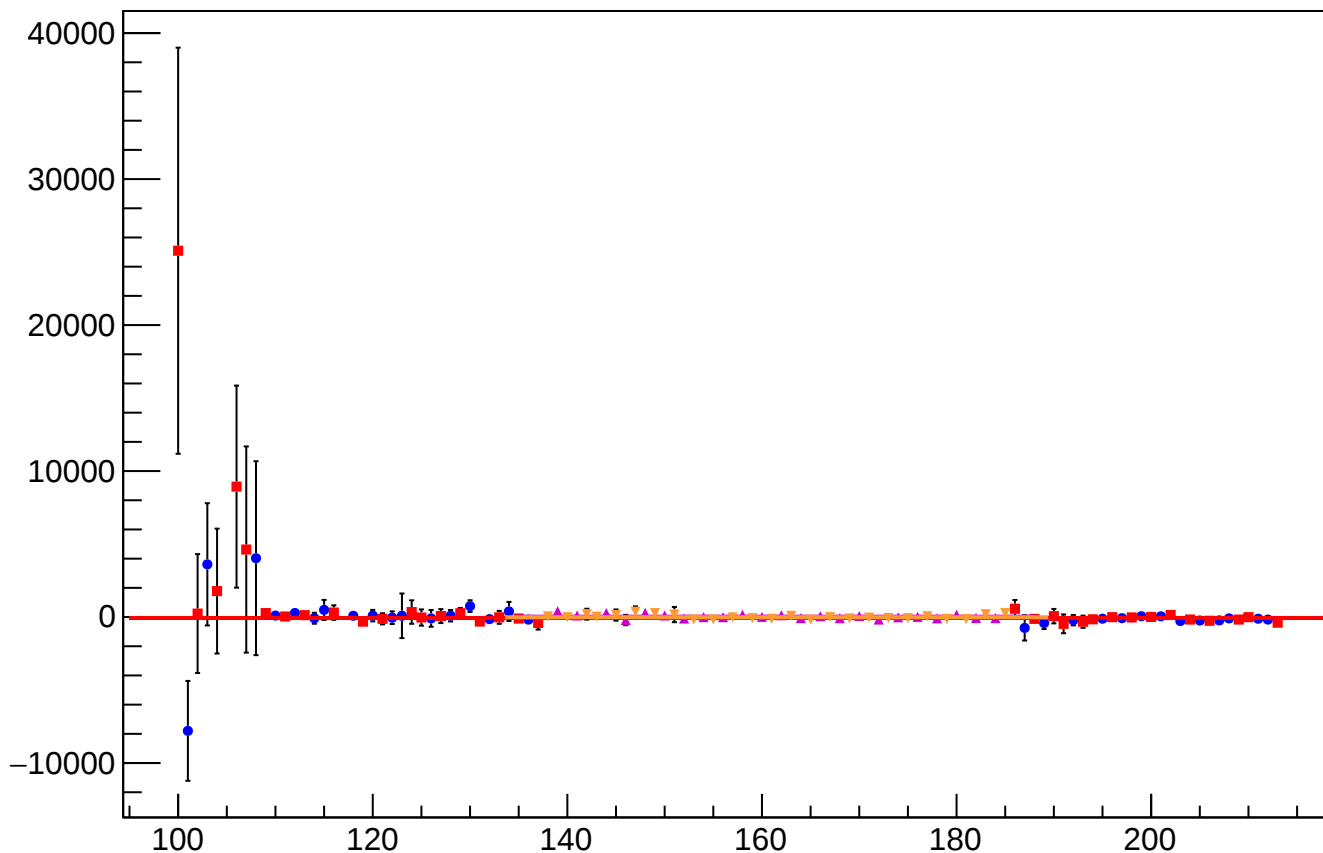
Right: 24.049 $\pm$ 0.003 χ^2 /NDF: 163098.4/63

In: 24.708 $\pm$ 0.003 χ^2 /NDF:158059.6/52

Out: 24.809 $\pm$ 0.003 χ^2 /NDF:189468.2/58

All: 24.760 $\pm$ 0.002 χ^2 /NDF: 348099.6/111

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.917 $\pm$ 46.763 χ^2 /NDF: 21.5/29

Left Out: -12.820 $\pm$ 48.216 χ^2 /NDF:7.9/24

Right Out: -62.023 $\pm$ 46.209 χ^2 /NDF: 20.7/33

Left In: 26.836 $\pm$ 45.876 χ^2 /NDF:7.5/22

Left: 7.994 $\pm$ 33.236 χ^2 /NDF: 15.7/47

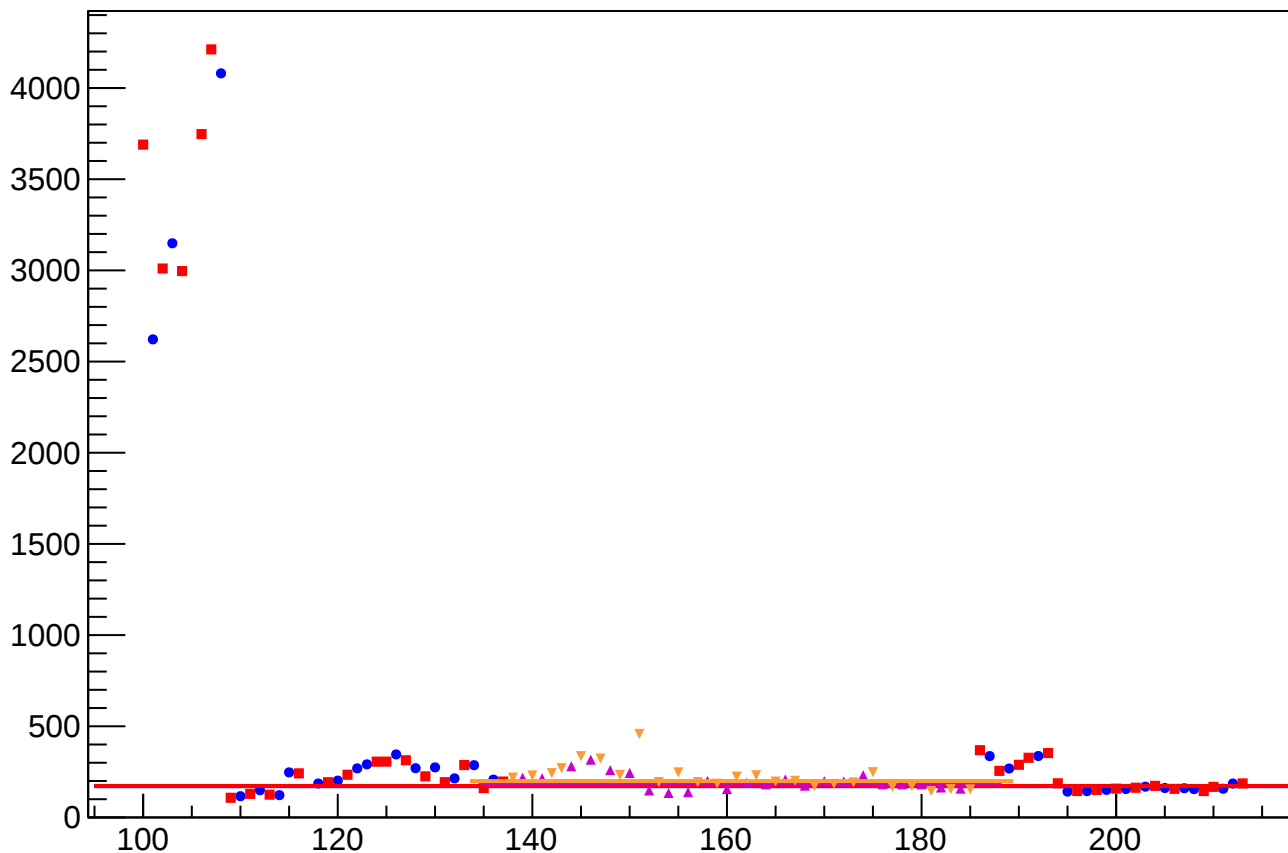
Right: -63.453 $\pm$ 32.869 χ^2 /NDF: 42.1/63

In: -18.162 $\pm$ 32.748 χ^2 /NDF:30.9/52

Out: -38.467 $\pm$ 33.362 χ^2 /NDF:29.1/58

All: -28.126 $\pm$ 23.370 χ^2 /NDF: 60.2/111

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.368+/-0.033 χ^2/NDF : 4521279.7/29

Left Out: 199.536+/-0.034 χ^2/NDF :1880548.8/24

Right Out: 172.728+/-0.033 χ^2/NDF : 5402480.1/33

Left In: 184.031+/-0.032 χ^2/NDF :1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

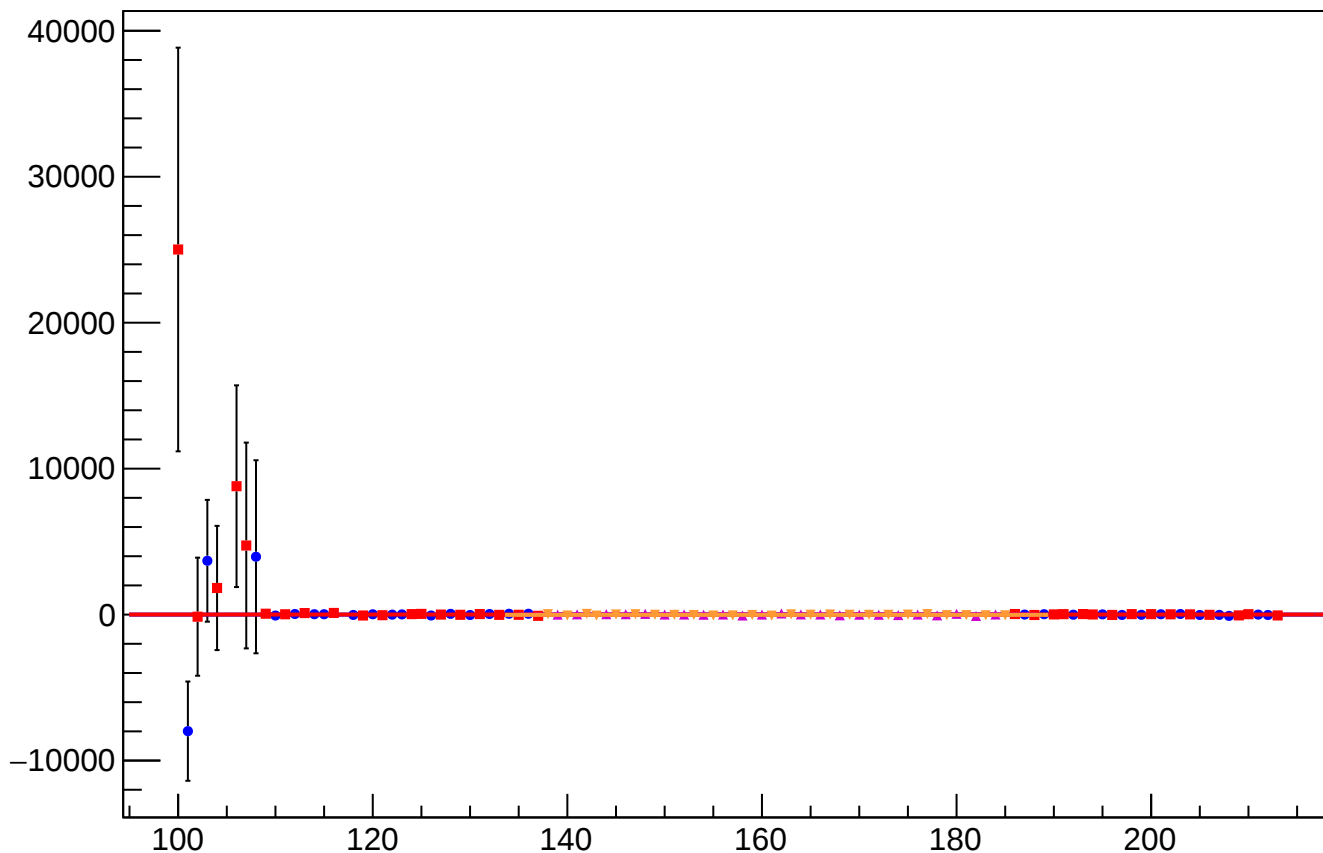
Right: 172.056+/-0.023 χ^2/NDF : 9924615.9/63

In: 177.821+/-0.023 χ^2/NDF :6019474.0/52

Out: 185.562+/-0.024 χ^2/NDF :7605285.5/58

All: 181.620+/-0.017 χ^2/NDF : 13679601.0/117

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.892 ± 7.243 χ^2/NDF : 31.2/29

Left Out: -17.580 ± 6.694 χ^2/NDF : 22.3/24

Right Out: 5.442 ± 7.034 χ^2/NDF : 38.5/33

Left In: 1.038 ± 6.880 χ^2/NDF : 32.4/22

Left: -8.527 ± 4.798 χ^2/NDF : 58.5/47

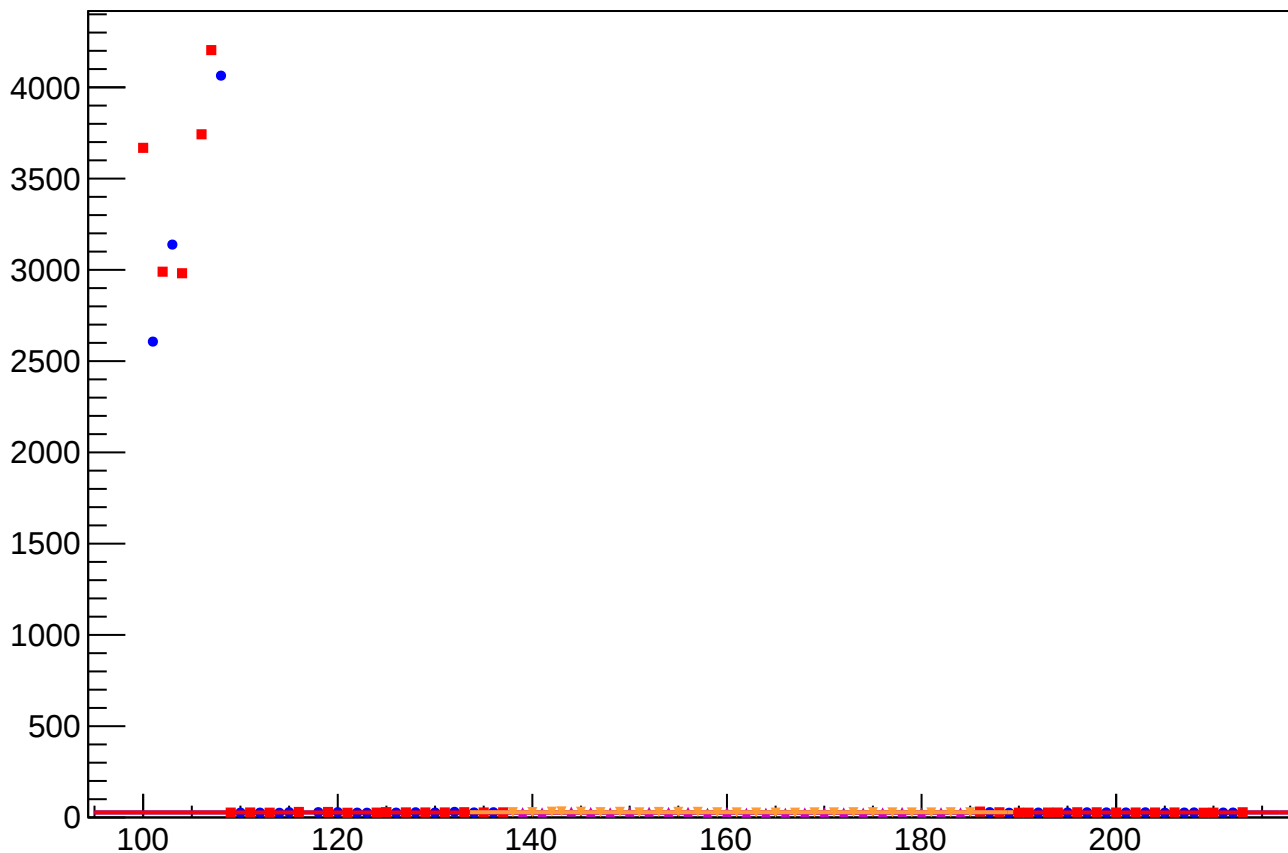
Right: 2.368 ± 5.046 χ^2/NDF : 70.1/63

In: 0.122 ± 4.988 χ^2/NDF : 63.6/52

Out: -6.639 ± 4.849 χ^2/NDF : 66.4/58

All: -3.354 ± 3.477 χ^2/NDF : 131.0/111

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.442 $\pm$ 0.005 χ^2 /NDF: 3042512.2/29

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF:110483.8/24

Right Out: 27.471 $\pm$ 0.005 χ^2 /NDF: 3513839.6/33

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

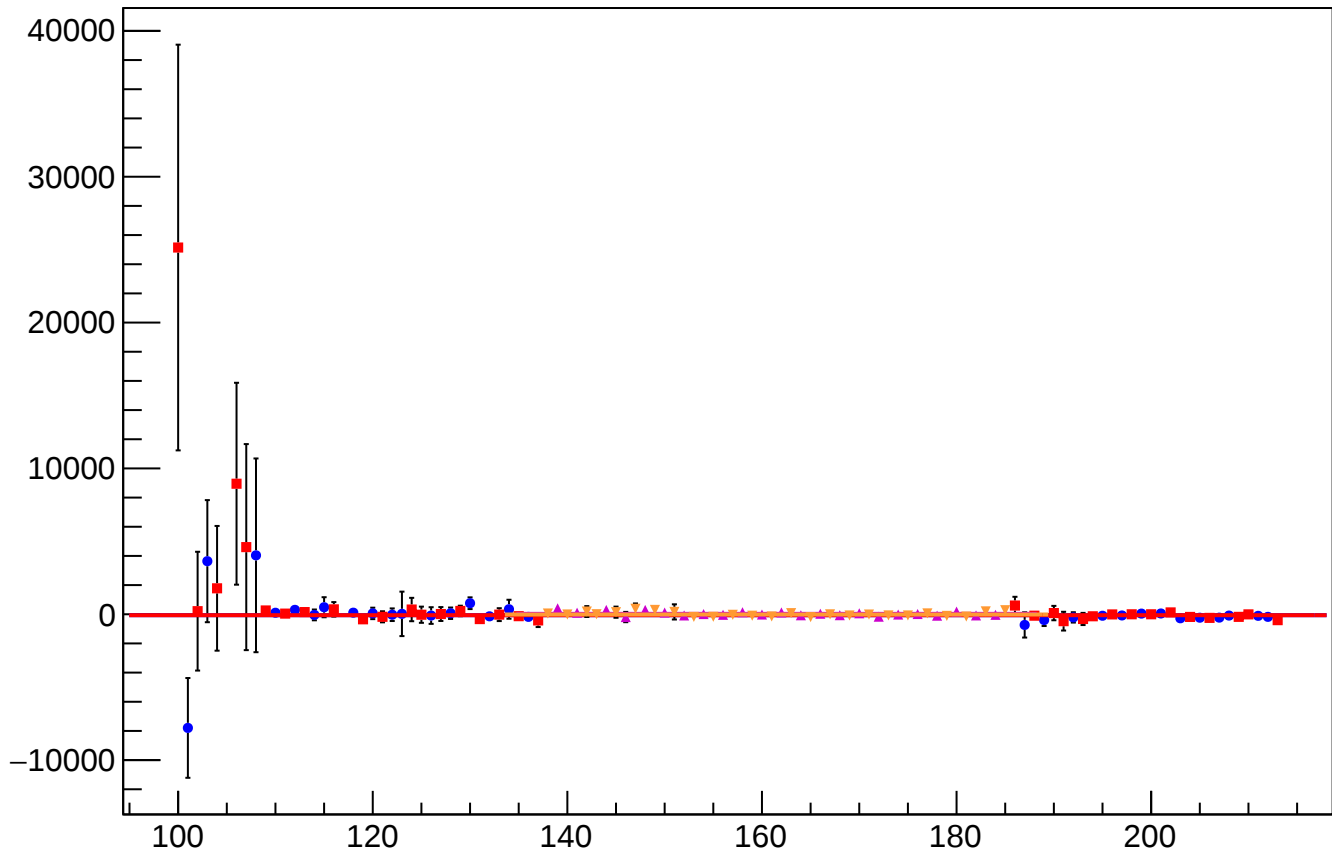
Right: 27.457 $\pm$ 0.004 χ^2 /NDF: 6556368.9/63

In: 28.089 $\pm$ 0.004 χ^2 /NDF:3197634.9/52

Out: 28.111 $\pm$ 0.003 χ^2 /NDF:3655876.2/58

All: 28.100 $\pm$ 0.002 χ^2 /NDF: 6853531.8/111

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.158+/-46.620 χ^2/NDF : 21.8/29

Left Out: -15.483+/-48.109 χ^2/NDF : 8.7/24

Right Out: -64.557+/-46.075 χ^2/NDF : 21.6/33

Left In: 27.009+/-45.785 χ^2/NDF : 7.8/22

Left: 6.815+/-33.166 χ^2/NDF : 16.9/47

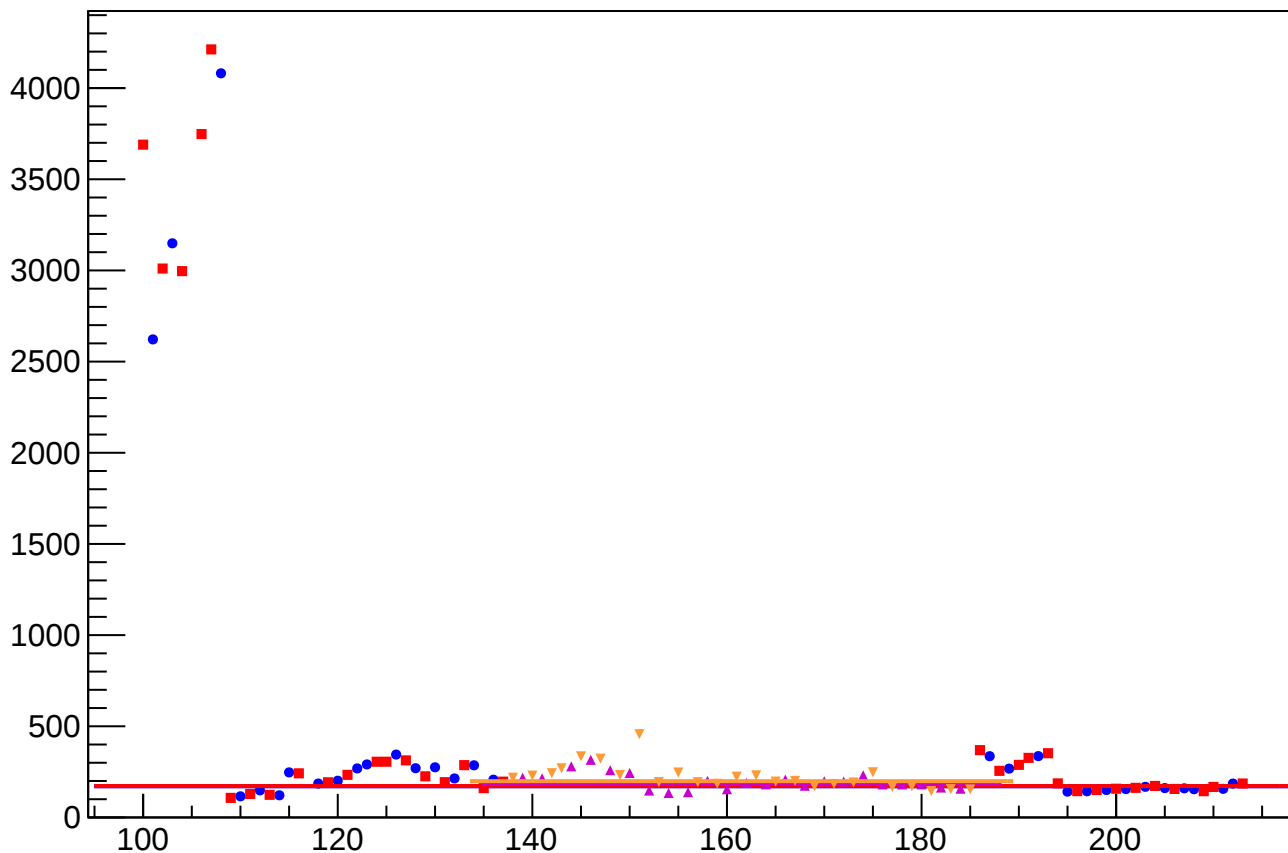
Right: -63.866+/-32.771 χ^2/NDF : 43.3/63

In: -17.259+/-32.666 χ^2/NDF : 31.5/52

Out: -41.079+/-33.276 χ^2/NDF : 30.8/58

All: -28.949+/-23.311 χ^2/NDF : 62.5/111

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.804 $\pm$ 0.033 χ^2 /NDF: 4534684.2/29

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 172.176 $\pm$ 0.033 χ^2 /NDF: 5420304.6/33

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

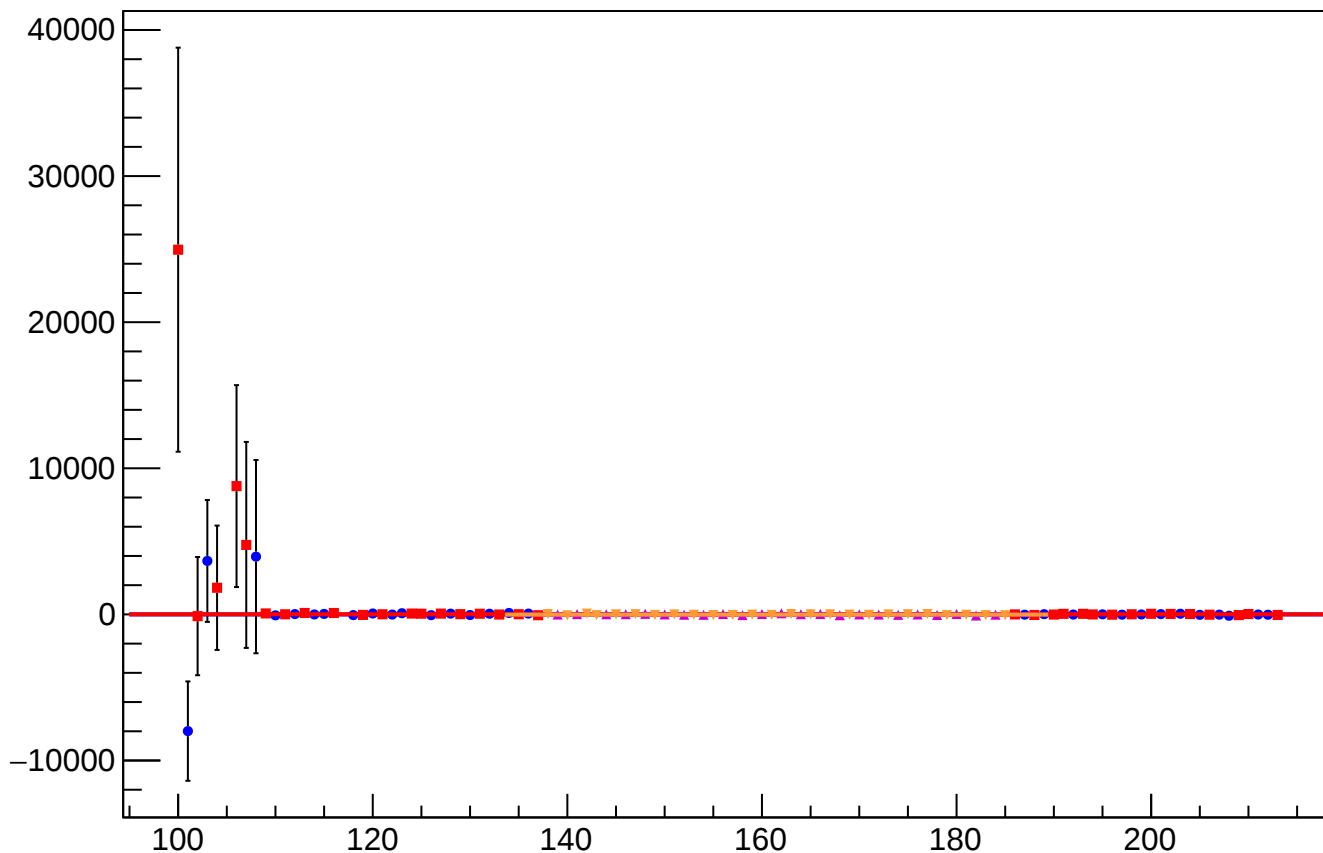
Right: 171.498 $\pm$ 0.023 χ^2 /NDF: 9955865.9/63

In: 177.352 $\pm$ 0.023 χ^2 /NDF:6035089.7/52

Out: 185.054 $\pm$ 0.024 χ^2 /NDF:7627216.4/58

All: 181.132 $\pm$ 0.016 χ^2 /NDF: 13716874.8/117

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.184 ± 7.210 χ^2/NDF : 34.9/29

Left Out: -15.006 ± 6.723 χ^2/NDF : 17.5/24

Right Out: 9.061 ± 7.011 χ^2/NDF : 32.9/33

Left In: -0.702 ± 6.909 χ^2/NDF : 26.4/22

Left: -8.049 ± 4.819 χ^2/NDF : 46.0/47

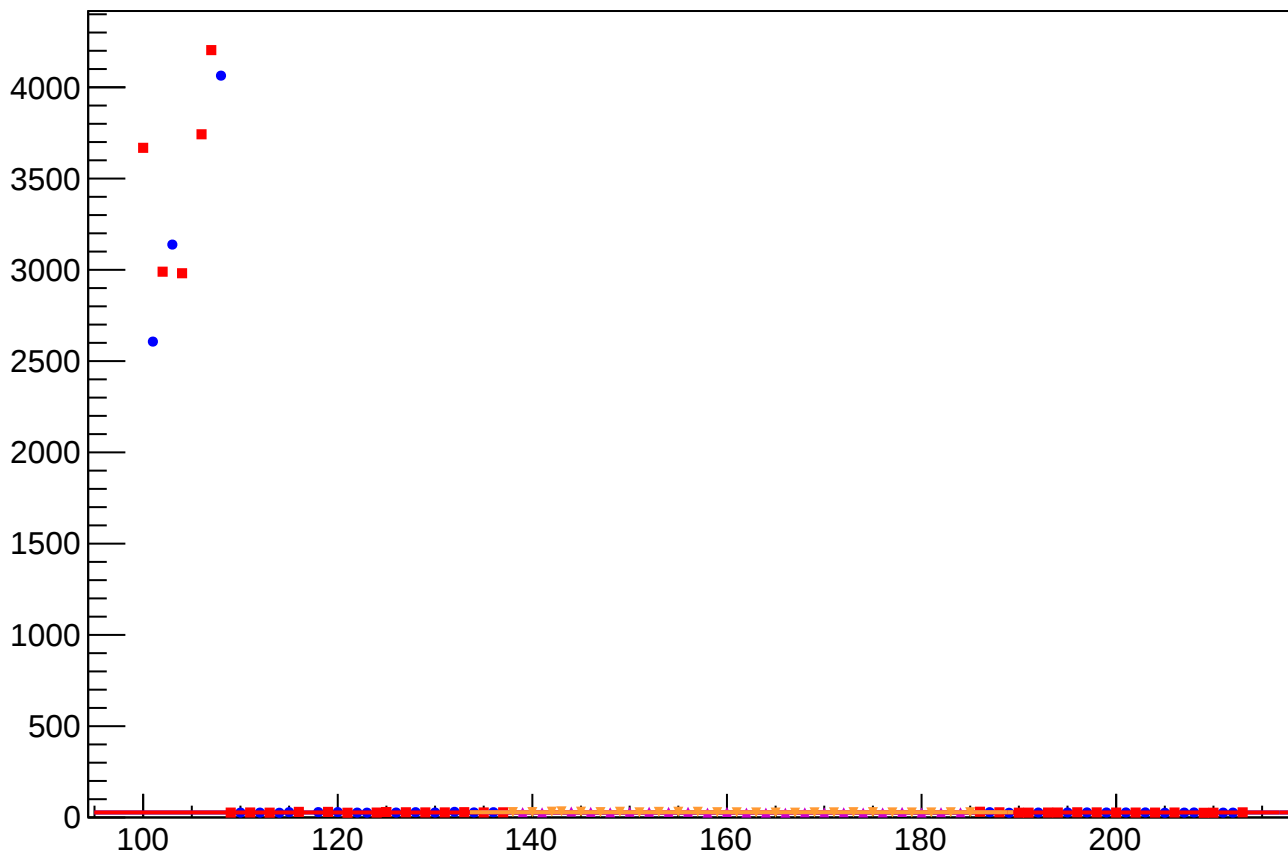
Right: 3.109 ± 5.027 χ^2/NDF : 69.3/63

In: -1.890 ± 4.989 χ^2/NDF : 61.3/52

Out: -3.477 ± 4.853 χ^2/NDF : 56.5/58

All: -2.706 ± 3.478 χ^2/NDF : 117.9/111

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.311+/-0.005 χ^2/NDF : 3050761.7/29

Left Out: 28.813+/-0.005 χ^2/NDF : 121973.8/24

Right Out: 27.381+/-0.005 χ^2/NDF : 3517454.5/33

Left In: 28.792+/-0.005 χ^2/NDF : 129393.1/22

Left: 28.803+/-0.003 χ^2/NDF : 251375.8/47

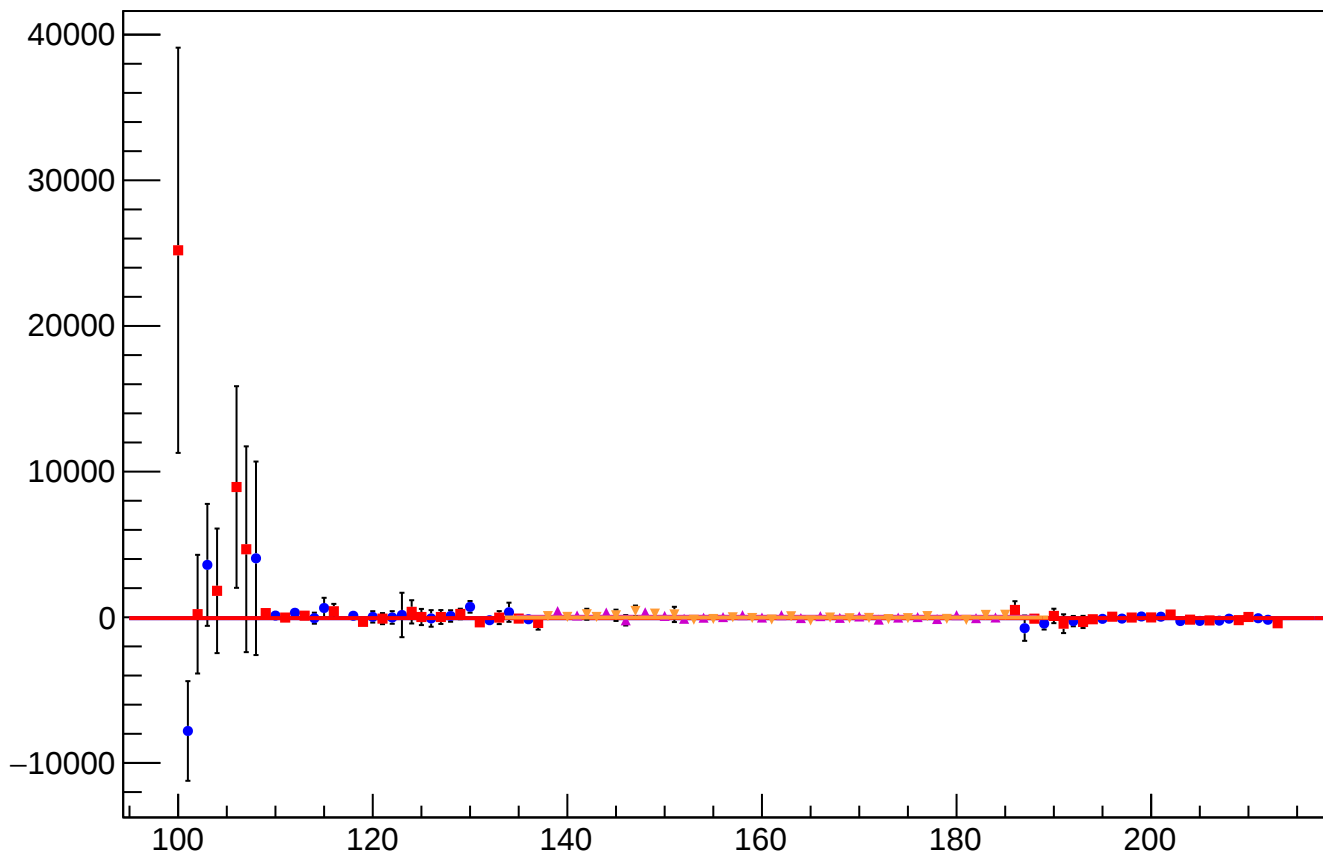
Right: 27.347+/-0.004 χ^2/NDF : 6568314.1/63

In: 28.083+/-0.004 χ^2/NDF : 3224178.1/52

Out: 28.127+/-0.003 χ^2/NDF : 3682857.1/58

All: 28.106+/-0.002 χ^2/NDF : 6907114.1/111

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.971 ± 46.944 $\chi^2/\text{NDF}: 21.9/29$

Left Out: -15.548 ± 48.688 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -57.199 ± 46.406 $\chi^2/\text{NDF}: 21.1/33$

Left In: 31.170 ± 46.359 $\chi^2/\text{NDF}: 8.2/22$

Left: 8.955 ± 33.574 $\chi^2/\text{NDF}: 16.6/47$

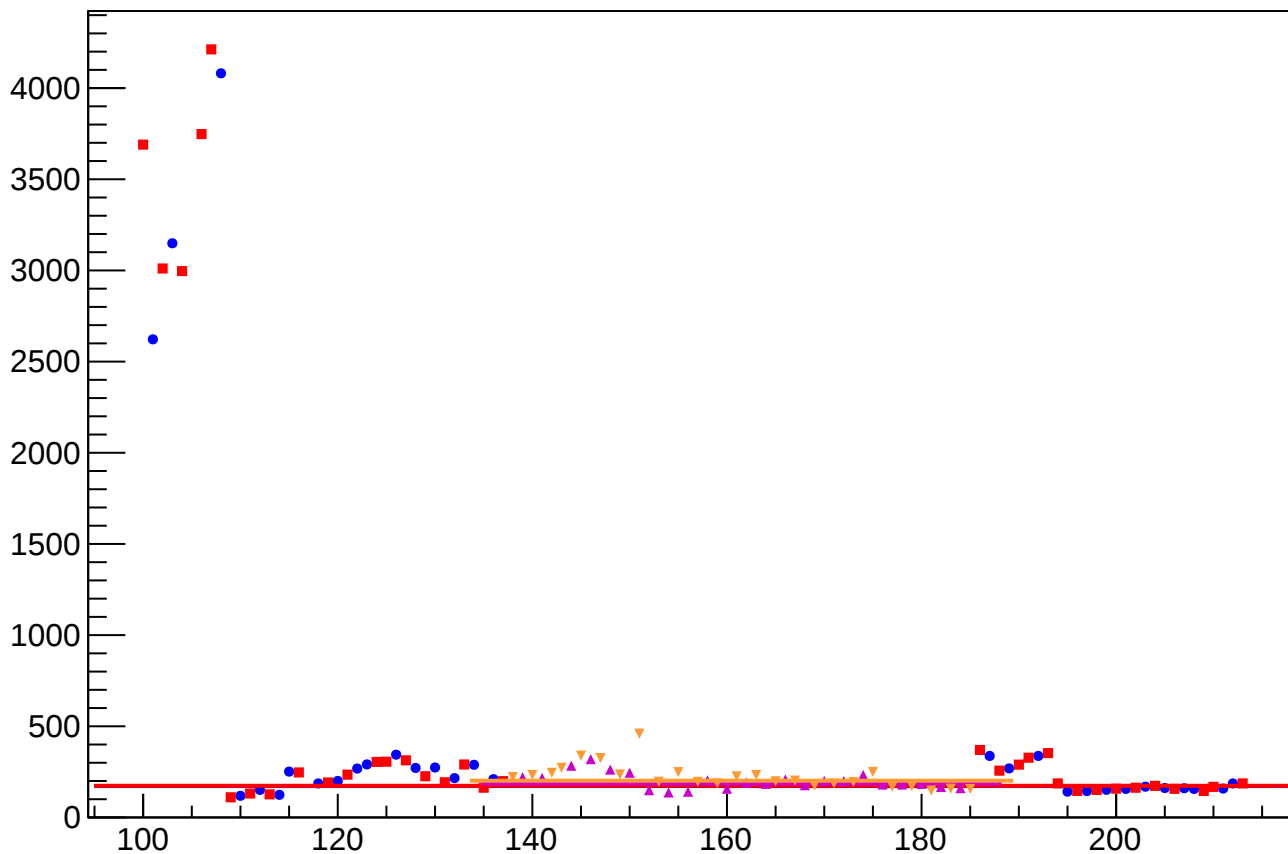
Right: -59.558 ± 33.003 $\chi^2/\text{NDF}: 43.0/63$

In: -14.817 ± 32.986 $\chi^2/\text{NDF}: 32.1/52$

Out: -37.373 ± 33.592 $\chi^2/\text{NDF}: 29.5/58$

All: -25.889 ± 23.536 $\chi^2/\text{NDF}: 61.8/111$

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.087 $\pm$ 0.033 χ^2 /NDF: 4502488.4/29

Left Out: 201.600 $\pm$ 0.034 χ^2 /NDF:1857453.2/24

Right Out: 173.615 $\pm$ 0.033 χ^2 /NDF: 5360565.2/33

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

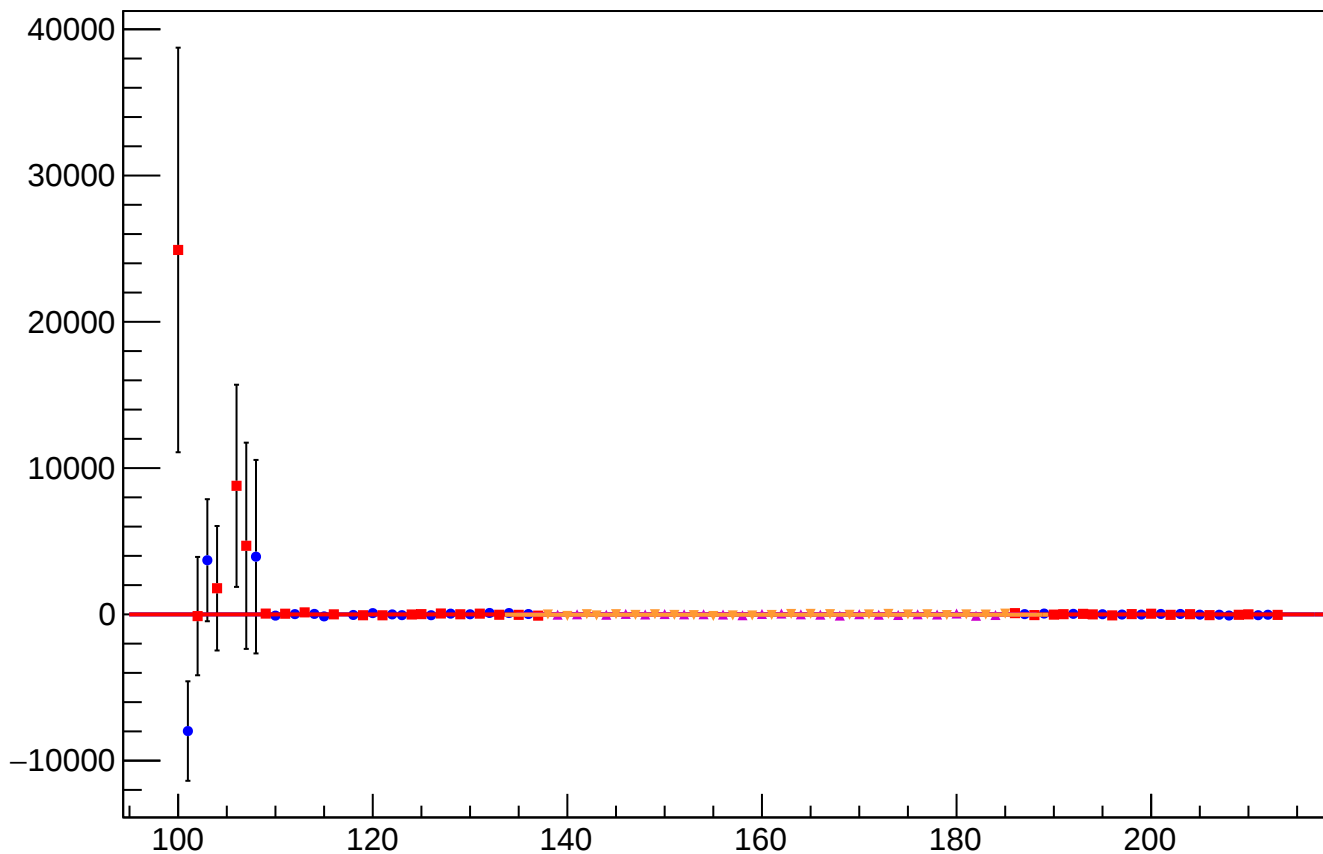
Right: 172.860 $\pm$ 0.023 χ^2 /NDF: 9864125.6/63

In: 179.185 $\pm$ 0.023 χ^2 /NDF:5984125.7/52

Out: 186.937 $\pm$ 0.024 χ^2 /NDF:7564233.4/58

All: 182.990 $\pm$ 0.017 χ^2 /NDF: 13602578.2/117

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.295 ± 8.811 χ^2/NDF : 30.9/29

Left Out: -23.360 ± 8.064 χ^2/NDF : 25.8/24

Right Out: -2.528 ± 8.557 χ^2/NDF : 35.8/33

Left In: -6.001 ± 8.309 χ^2/NDF : 21.1/22

Left: -14.939 ± 5.787 χ^2/NDF : 49.2/47

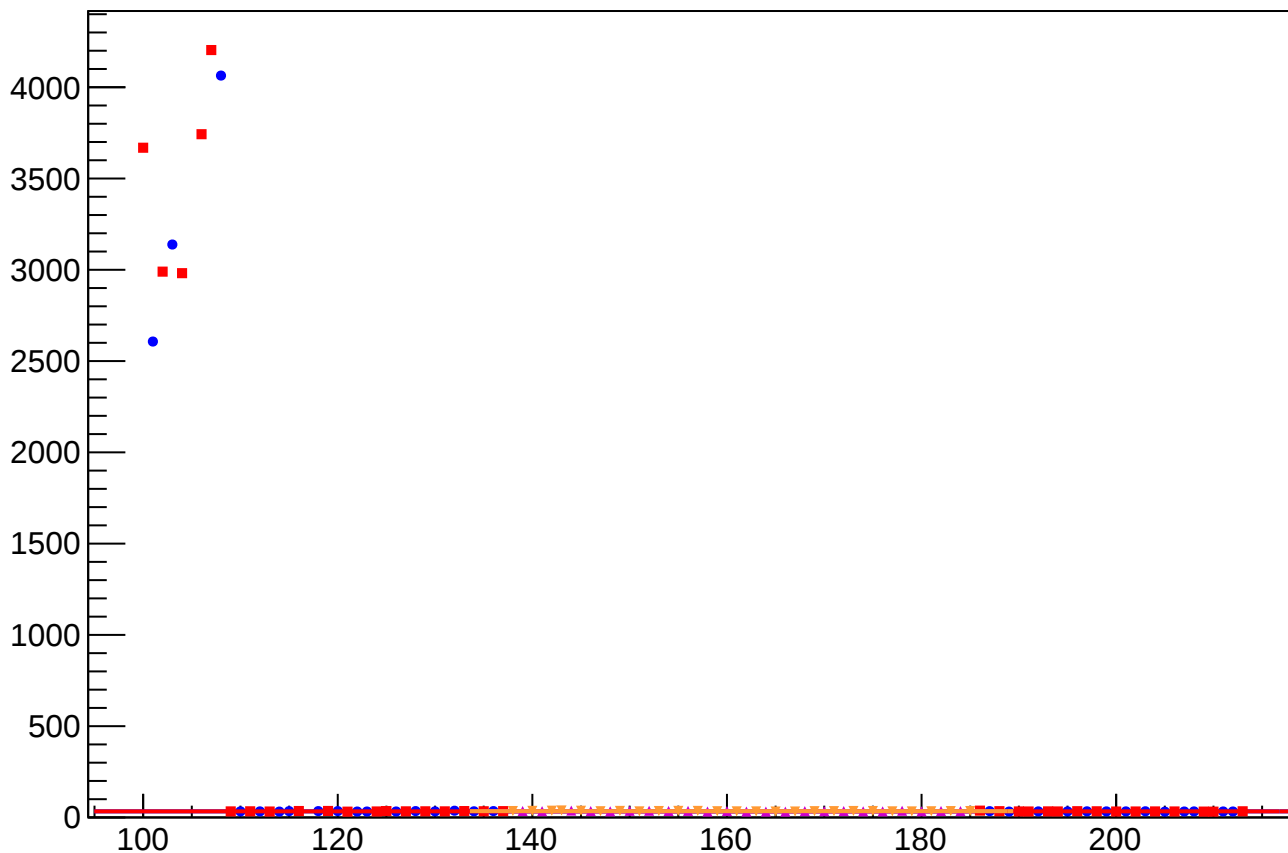
Right: -1.930 ± 6.139 χ^2/NDF : 66.8/63

In: -3.786 ± 6.045 χ^2/NDF : 52.2/52

Out: -13.561 ± 5.869 χ^2/NDF : 64.8/58

All: -8.818 ± 4.211 χ^2/NDF : 118.3/111

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.398 $\pm$ 0.006 χ^2 /NDF: 3020517.2/29

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.467 $\pm$ 0.006 χ^2 /NDF: 3474207.8/33

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

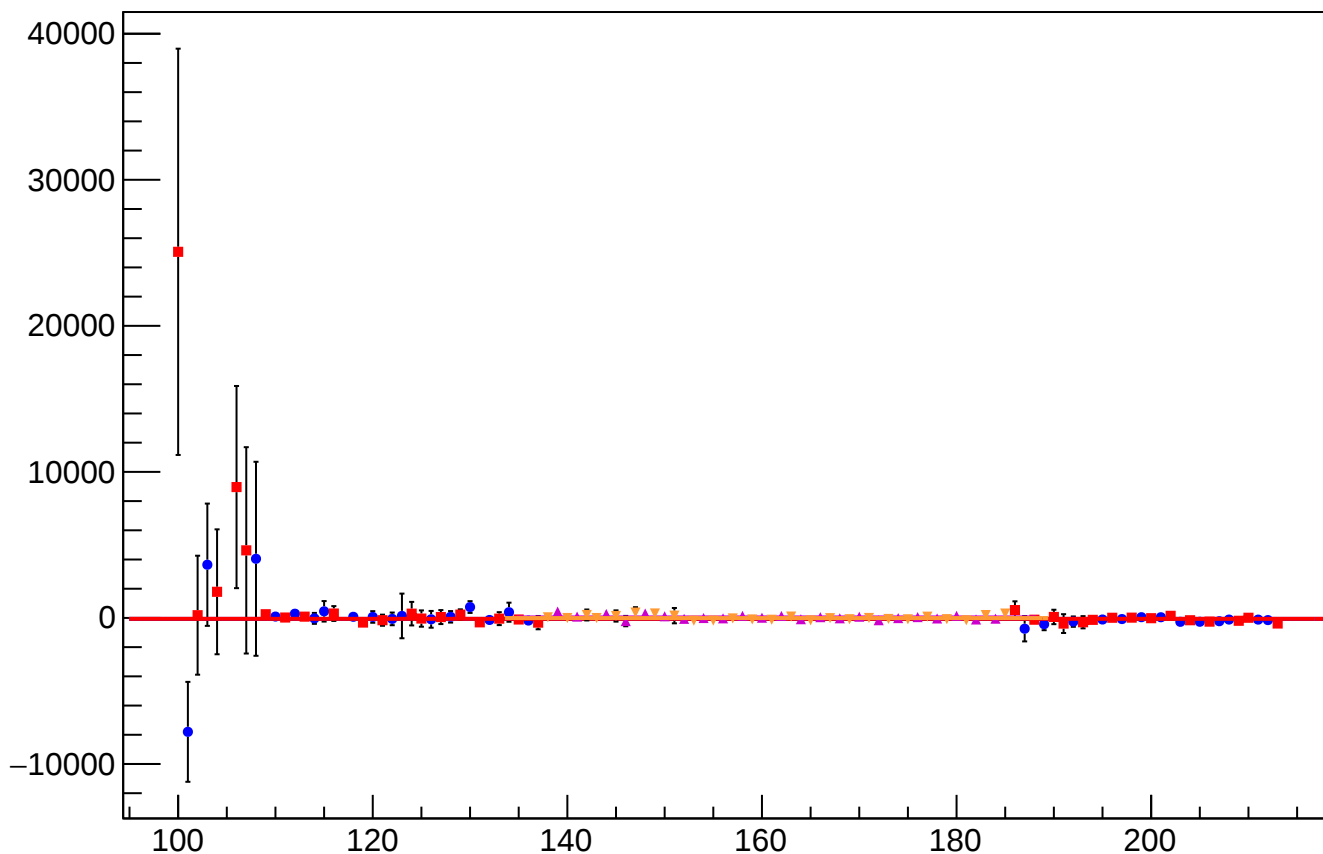
Right: 33.433 $\pm$ 0.004 χ^2 /NDF: 6494788.2/63

In: 34.079 $\pm$ 0.004 χ^2 /NDF: 3103433.8/52

Out: 34.075 $\pm$ 0.004 χ^2 /NDF: 3551207.3/58

All: 34.077 $\pm$ 0.003 χ^2 /NDF: 6654641.7/111

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -67.239+/-46.805 χ^2/NDF : 21.5/29

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: -61.265+/-46.237 χ^2/NDF : 19.4/33

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

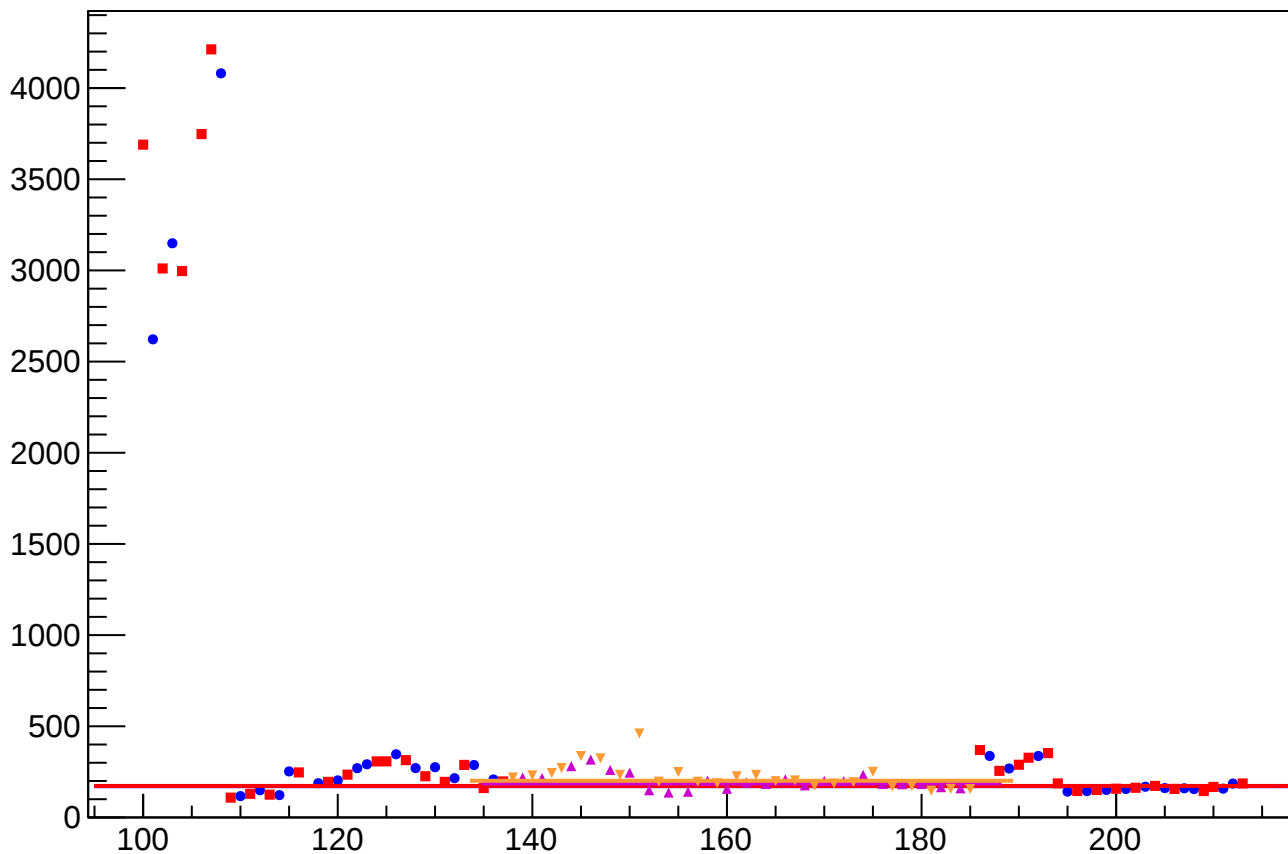
Right: -64.216+/-32.893 χ^2/NDF : 41.0/63

In: -16.003+/-32.915 χ^2/NDF : 31.3/52

Out: -36.403+/-33.504 χ^2/NDF : 28.7/58

All: -26.022+/-23.480 χ^2/NDF : 60.2/111

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.495+/-0.033 χ^2/NDF : 4531202.1/29

Left Out: 201.296+/-0.034 χ^2/NDF : 1851134.1/24

Right Out: 172.827+/-0.033 χ^2/NDF : 5408673.4/33

Left In: 185.854+/-0.033 χ^2/NDF : 1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

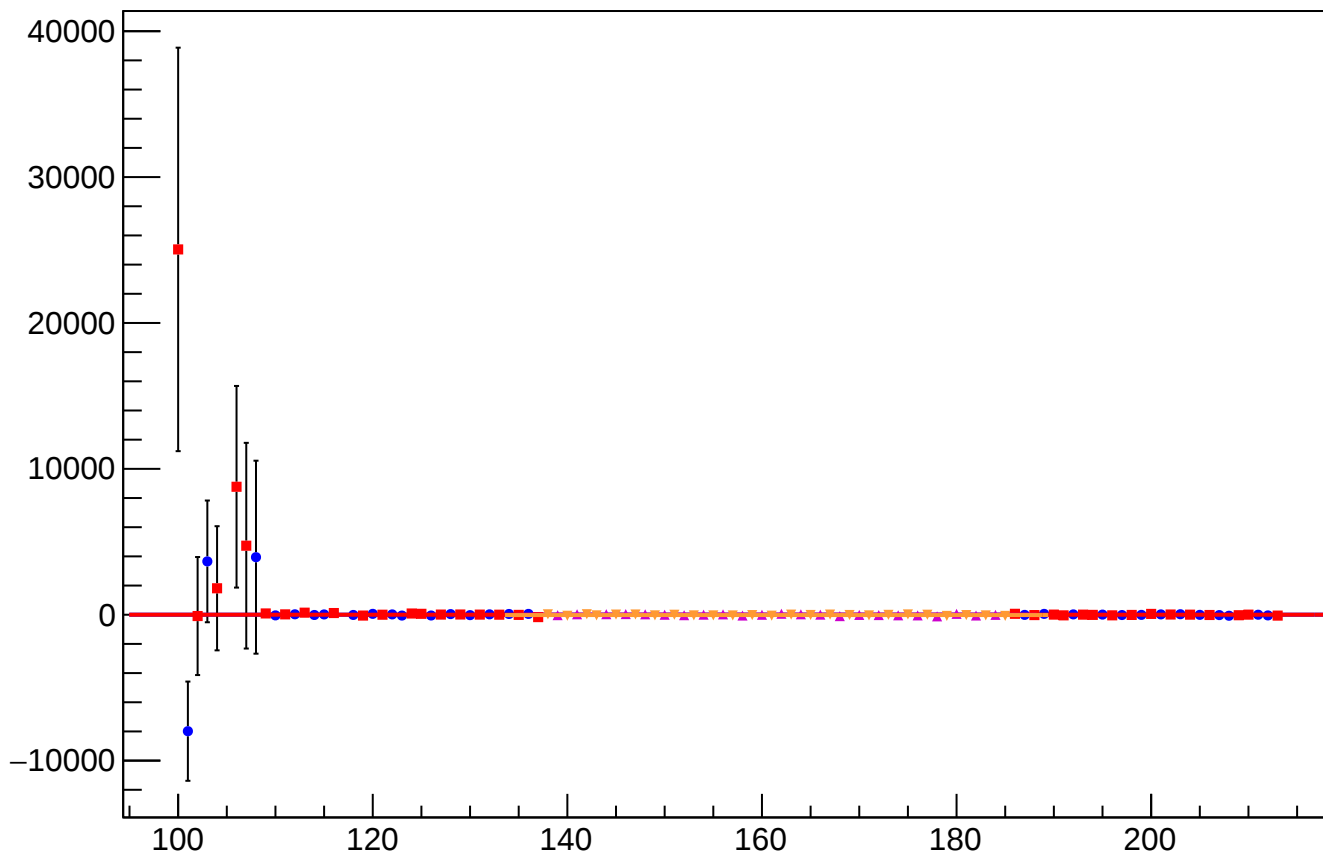
Right: 172.169+/-0.023 χ^2/NDF : 9940695.6/63

In: 178.753+/-0.023 χ^2/NDF : 6008116.5/52

Out: 186.349+/-0.024 χ^2/NDF : 7619923.1/58

All: 182.483+/-0.017 χ^2/NDF : 13680349.2/11

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.067+/-7.976 χ^2/NDF : 25.2/29

Left Out: -22.879+/-7.340 χ^2/NDF :18.8/24

Right Out: 1.993+/-7.745 χ^2/NDF : 41.9/33

Left In: -5.943+/-7.550 χ^2/NDF :38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

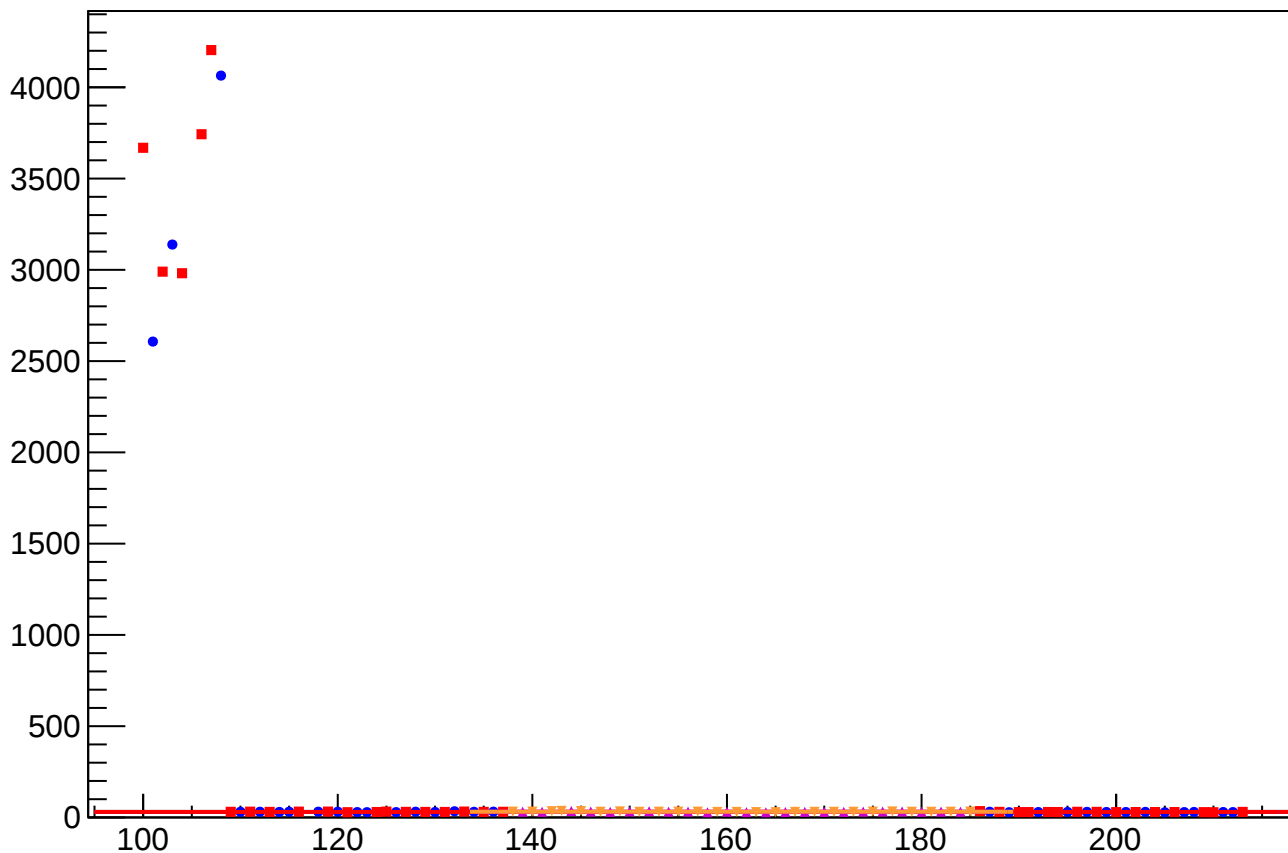
Right: 2.029+/-5.556 χ^2/NDF : 67.0/63

In: -2.158+/-5.483 χ^2/NDF :64.1/52

Out: -11.111+/-5.328 χ^2/NDF :66.0/58

All: -6.762+/-3.821 χ^2/NDF : 131.5/111

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.221 $\pm$ 0.006 χ^2 /NDF: 3038307.8/29

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.268 $\pm$ 0.005 χ^2 /NDF: 3492178.6/33

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

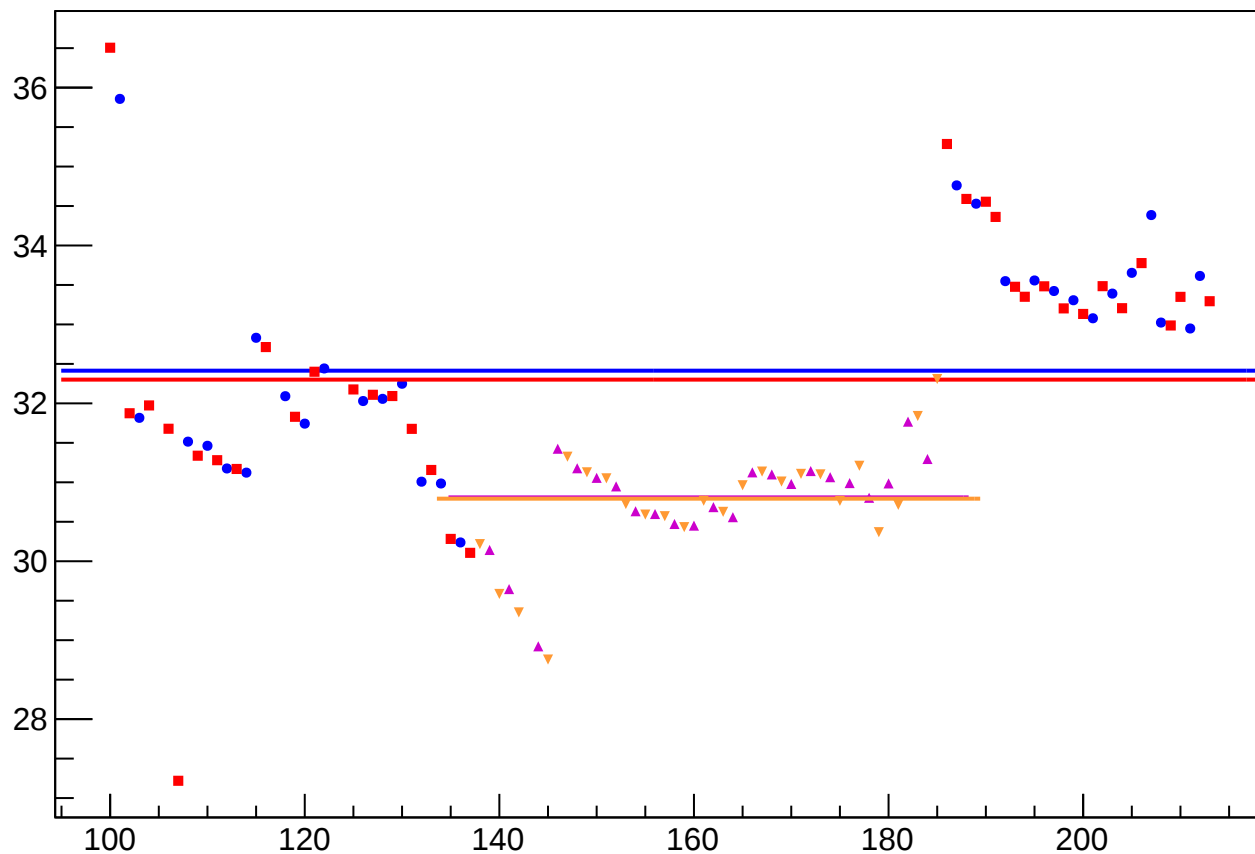
Right: 30.245 $\pm$ 0.004 χ^2 /NDF: 6530521.9/63

In: 30.887 $\pm$ 0.004 χ^2 /NDF:3152764.4/52

Out: 30.907 $\pm$ 0.004 χ^2 /NDF:3600503.9/58

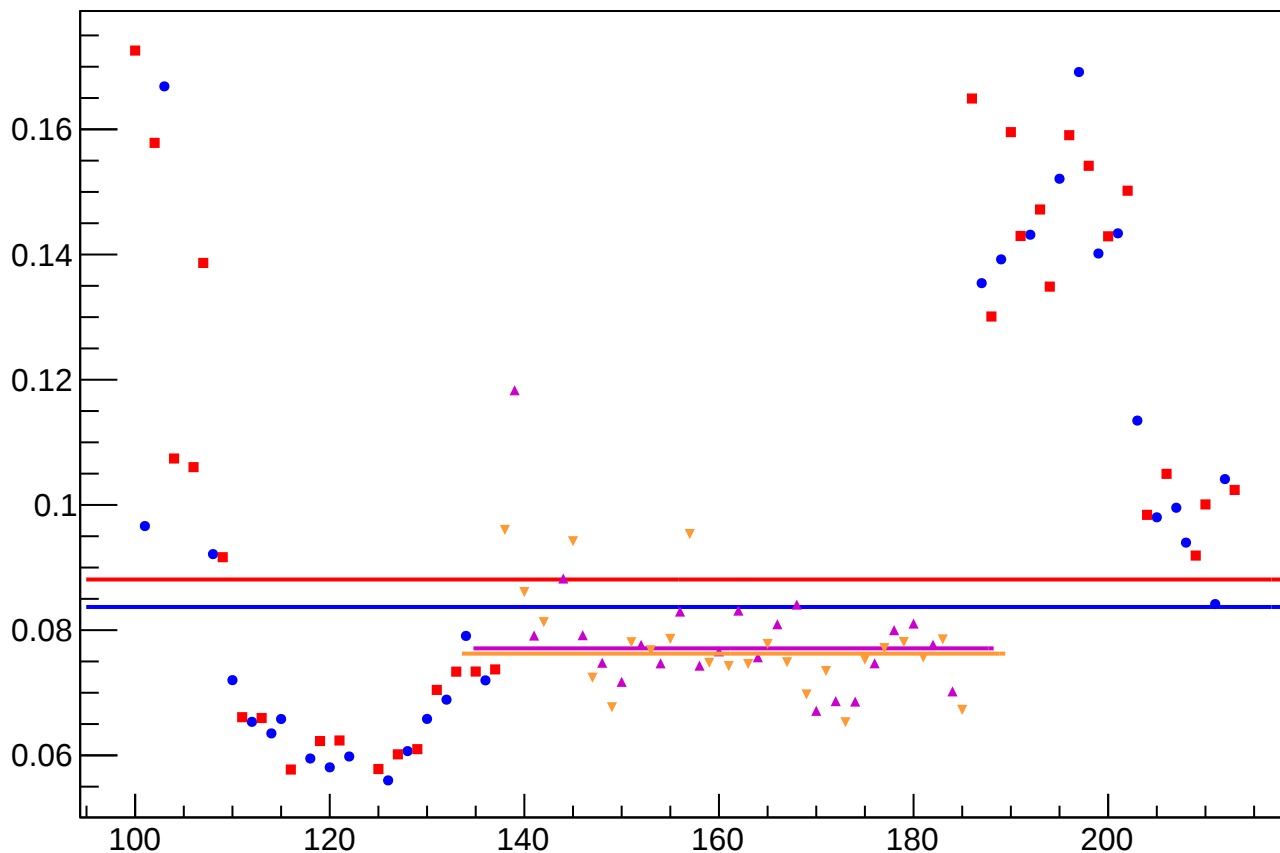
All: 30.898 $\pm$ 0.003 χ^2 /NDF: 6753282.0/111

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.414+/-0.000	χ^2/NDF : 2943244292.7/28	Left: 30.801+/-0.000	χ^2/NDF : 1829591088.1/46
Left Out: 30.793+/-0.000	χ^2/NDF : 1007261340.7/23	Right: 32.359+/-0.000	χ^2/NDF : 5483462365.1/61
Right Out: 32.301+/-0.000	χ^2/NDF : 2528221588.4/32	In: 31.478+/-0.000	χ^2/NDF : 6625864115.0/51
Left In: 30.809+/-0.000	χ^2/NDF : 821961762.3/22	Out: 31.395+/-0.000	χ^2/NDF : 6043691369.4/56
		All: 31.436+/-0.000	χ^2/NDF : 12685154835.2

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.084+/-0.000 χ^2/NDF : 3193021.1/28

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.088+/-0.000 χ^2/NDF : 3659822.0/32

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

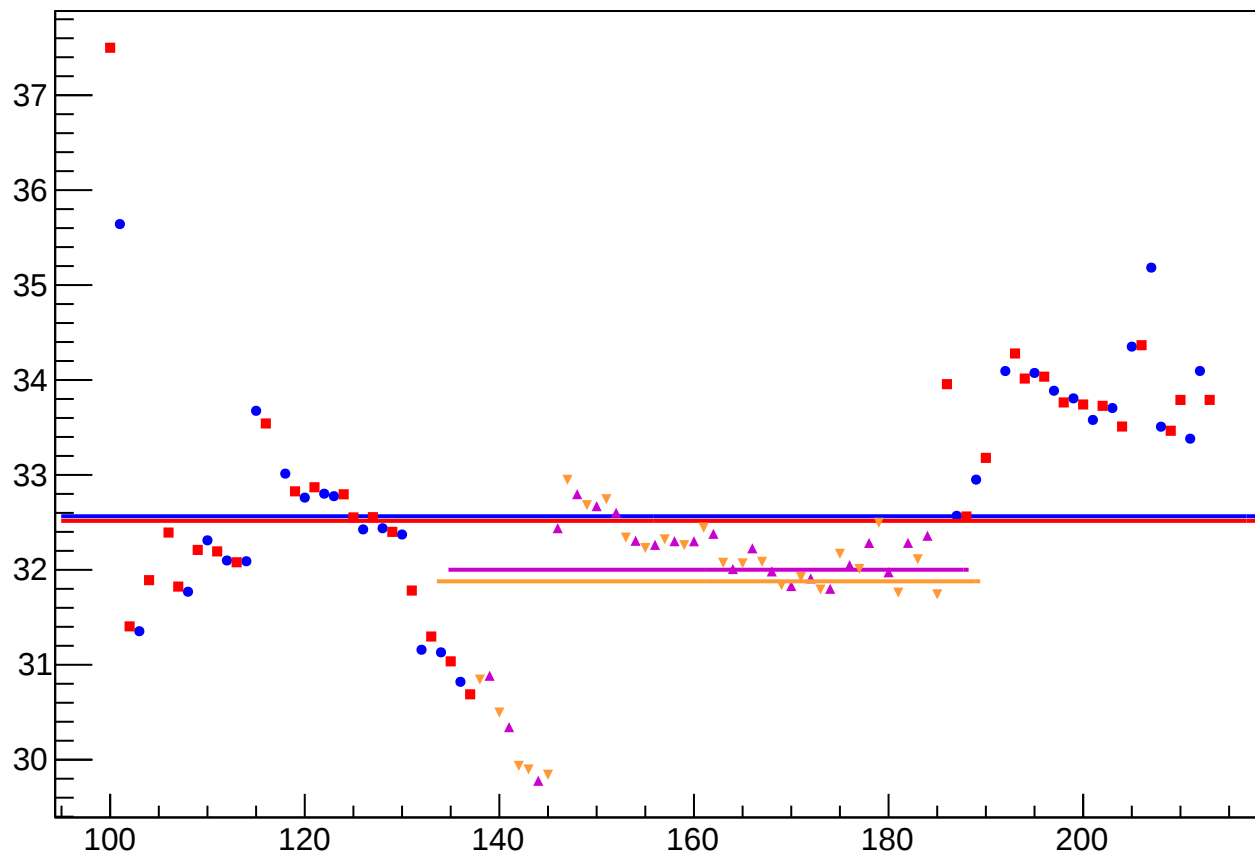
Right: 0.086+/-0.000 χ^2/NDF : 6888888.7/61

In: 0.080+/-0.000 χ^2/NDF : 3615919.2/51

Out: 0.081+/-0.000 χ^2/NDF : 4247042.2/56

All: 0.080+/-0.000 χ^2/NDF : 7868879.4/108

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.565 $\pm$ 0.000 χ^2/NDF : 1573528251.3/29

Left Out: 31.879 $\pm$ 0.000 χ^2/NDF : 1976281391.1/24

Right Out: 32.516 $\pm$ 0.000 χ^2/NDF : 938724936.3/32

Left In: 32.001 $\pm$ 0.000 χ^2/NDF : 1411110671.9/22

Left: 31.939 $\pm$ 0.000 χ^2/NDF : 3408370857.8/47

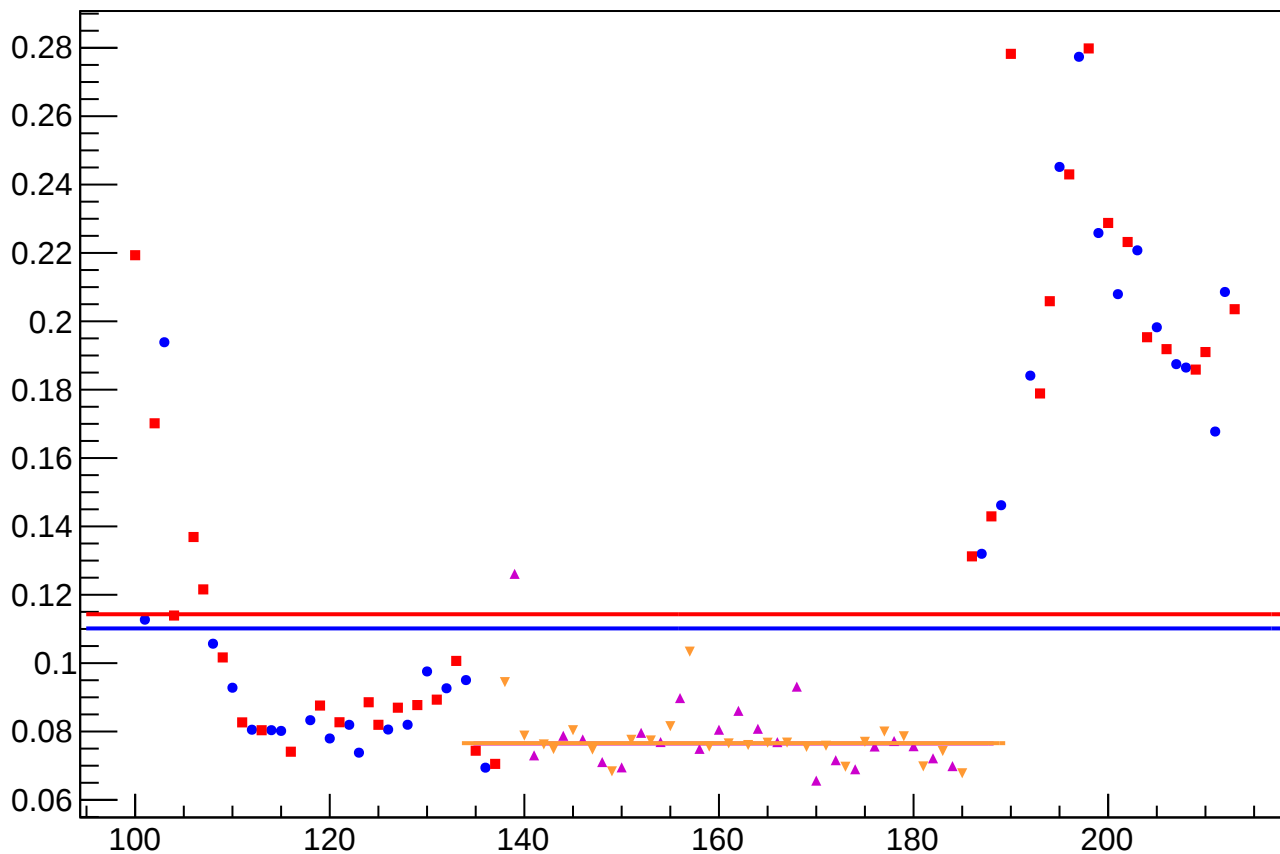
Right: 32.540 $\pm$ 0.000 χ^2/NDF : 2513433906.1/62

In: 32.152 $\pm$ 0.000 χ^2/NDF : 3218547792.3/52

Out: 32.045 $\pm$ 0.000 χ^2/NDF : 3219035605.5/57

All: 32.098 $\pm$ 0.000 χ^2/NDF : 6459640864.1/13

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.110 $\pm$ 0.000 χ^2 /NDF: 5210186.2/29

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.114 $\pm$ 0.000 χ^2 /NDF: 5075884.0/32

Left In: 0.076 $\pm$ 0.000 χ^2 /NDF:432563.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 642235.6/47

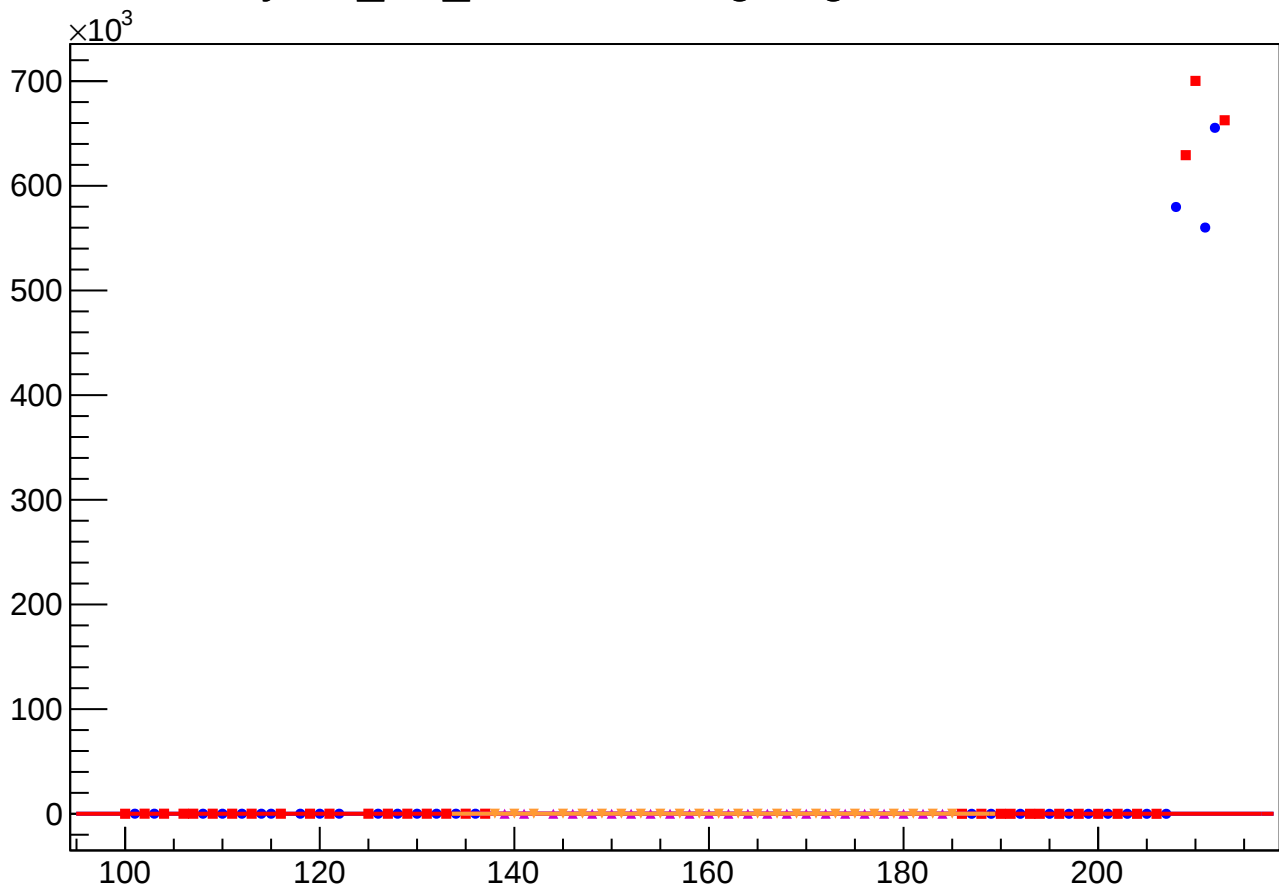
Right: 0.112 $\pm$ 0.000 χ^2 /NDF: 10303453.0/62

In: 0.086 $\pm$ 0.000 χ^2 /NDF:7312783.2/52

Out: 0.086 $\pm$ 0.000 χ^2 /NDF:7416177.5/57

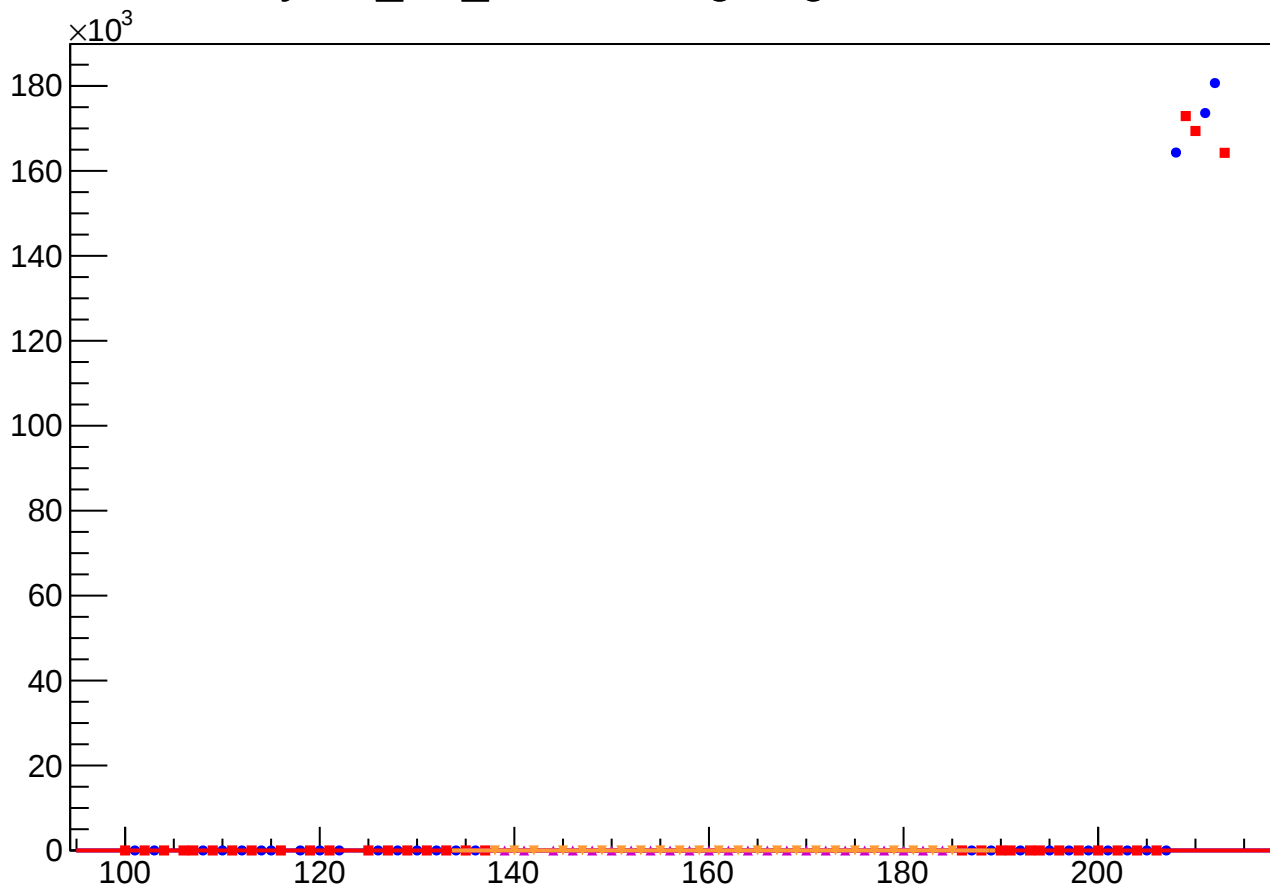
All: 0.086 $\pm$ 0.000 χ^2 /NDF: 14731918.1/110

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853532994063.6/28	Left: 83.355+/-0.000	χ^2/NDF : 17213898269.1/46
Left Out: 83.402+/-0.000	χ^2/NDF : 8756634444.3/23	Right: 52.782+/-0.000	χ^2/NDF : 22419883144025.4/
Right Out: 51.099+/-0.000	χ^2/NDF : 11528442668478.4/32	In: 71.422+/-0.000	χ^2/NDF : 13699369805919.7/51
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 69.320+/-0.000	χ^2/NDF : 15306995430507.8/51
		All: 70.353+/-0.000	χ^2/NDF : 2903829091204.4/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 4659189.9/28

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 4977622.0/32

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

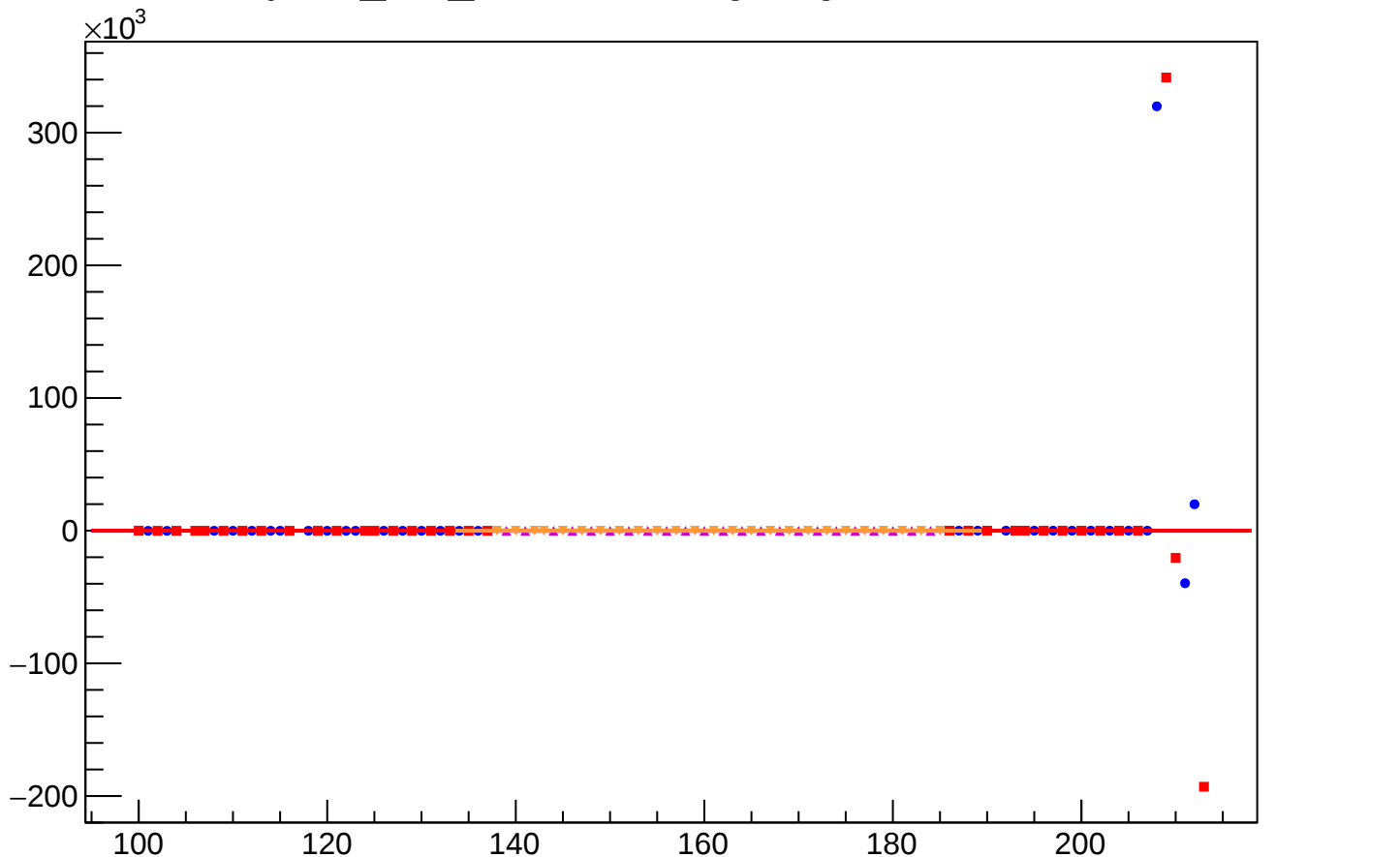
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 9636815.7/61

In: 0.046 $\pm$ 0.000 χ^2 /NDF:4928504.7/51

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:5203874.4/56

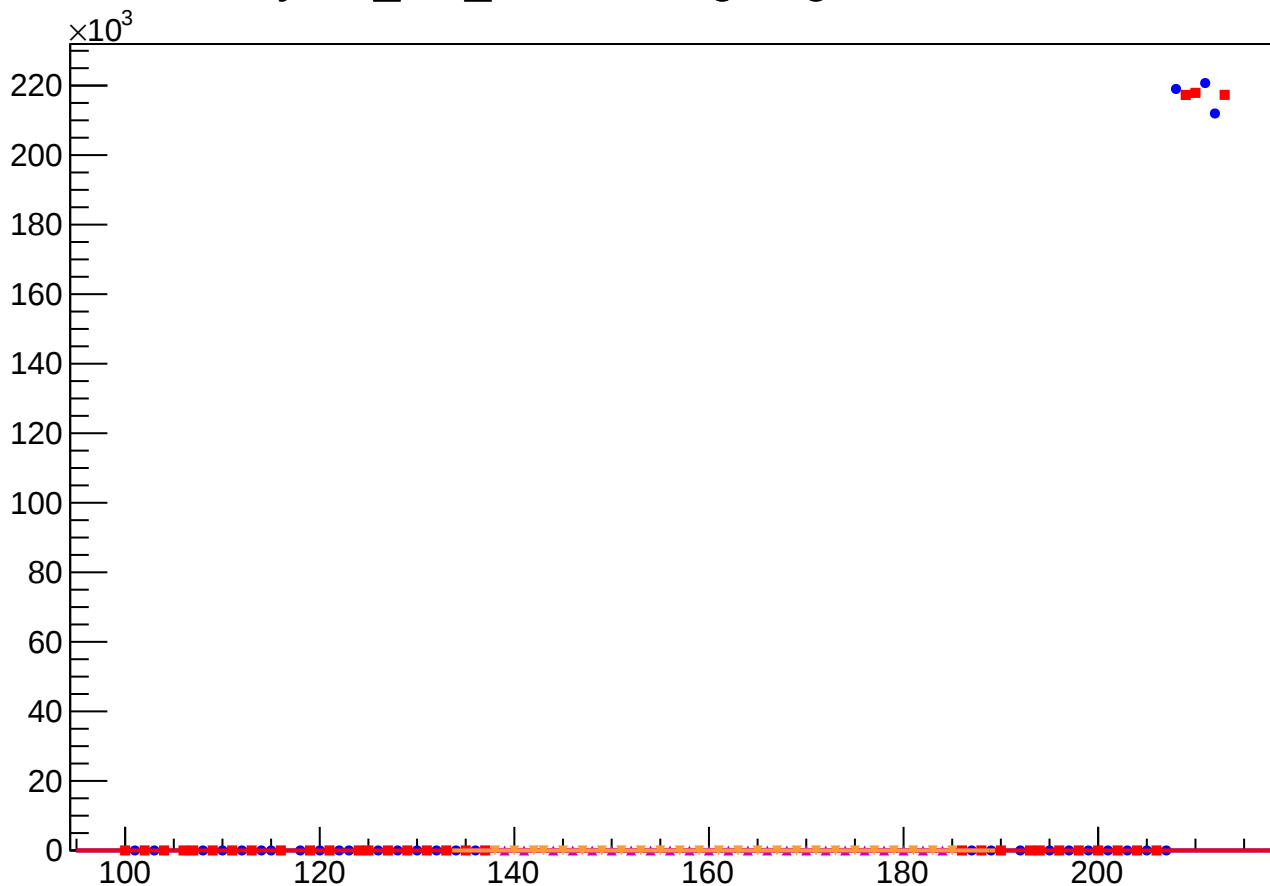
All: 0.046 $\pm$ 0.000 χ^2 /NDF: 10132922.0/108

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000	χ^2/NDF : 7479128748037.6/29	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -29.369+/-0.000	χ^2/NDF : 14808900130520.4
Right Out: -28.760+/-0.000	χ^2/NDF : 7325681975702.7/32	In: -50.762+/-0.000	χ^2/NDF : 11497070342043.6/5
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -50.075+/-0.000	χ^2/NDF : 11926091267200.9/
		All: -50.406+/-0.000	χ^2/NDF : 234256939391

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 4338645.6/29

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 4579288.8/32

Left In: 0.056 $\pm$ 0.000 χ^2 /NDF:52190.5/22

Left: 0.055 $\pm$ 0.000 χ^2 /NDF: 91784.6/47

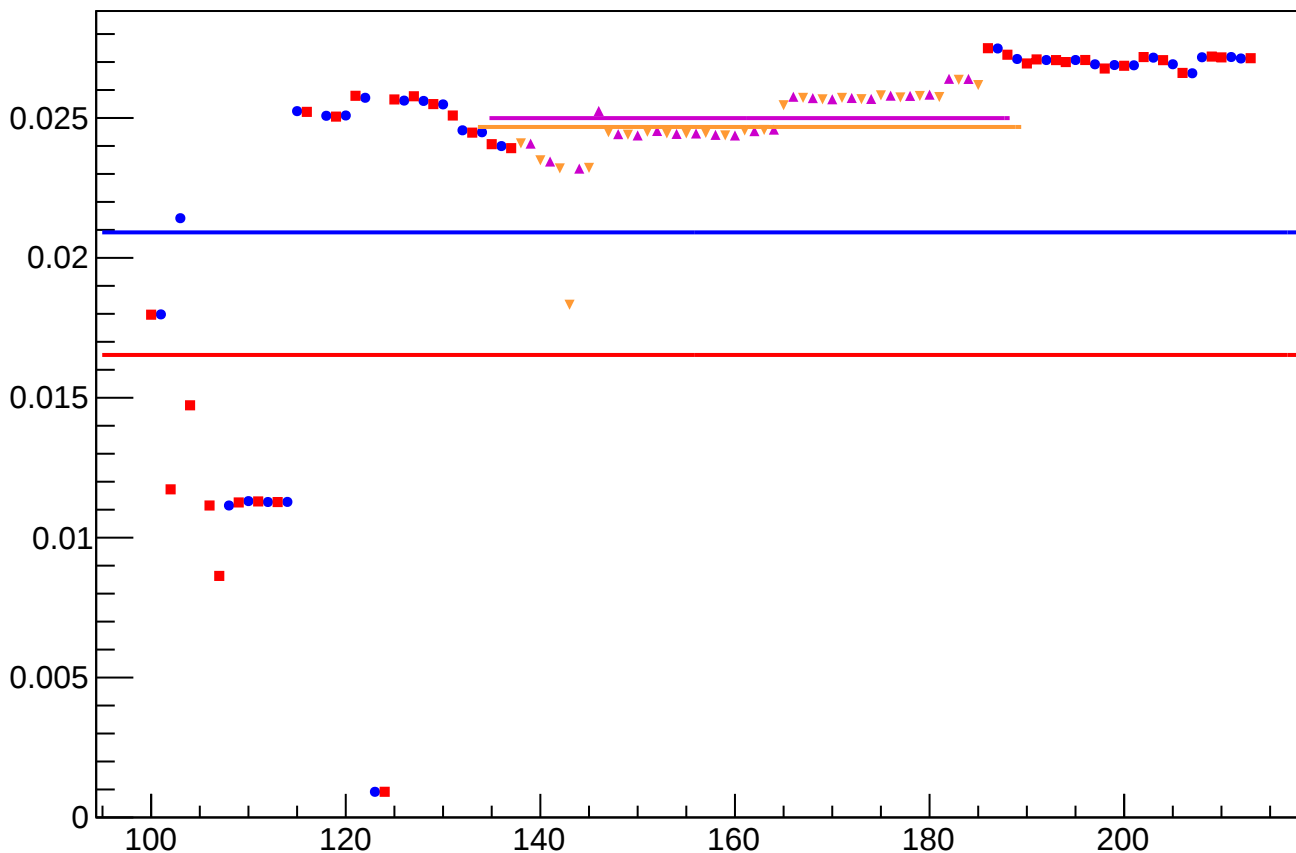
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 8917982.3/62

In: 0.054 $\pm$ 0.000 χ^2 /NDF:4452697.0/52

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:4673942.7/57

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 9127337.3/110

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.021+/-0.000

χ^2/NDF : 193953519065.1/29

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right Out: 0.017+/-0.000

χ^2/NDF : 430739877035.8/33

Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Right: 0.018+/-0.000

χ^2/NDF : 654702836578.6/63

In: 0.023+/-0.000

χ^2/NDF : 222306003578.4/52

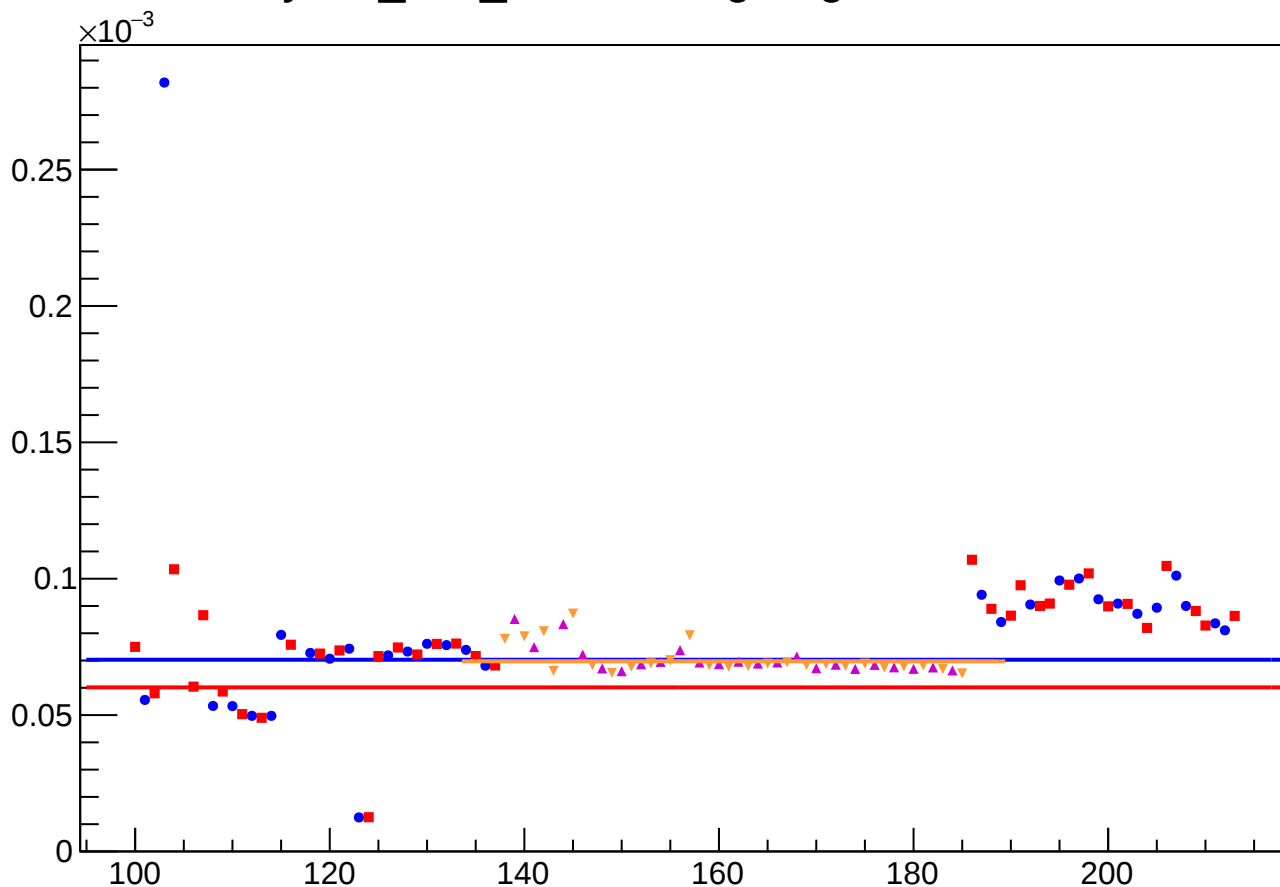
Out: 0.021+/-0.000

χ^2/NDF : 561544693322.3/58

All: 0.022+/-0.000

χ^2/NDF : 805234179880.7

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3562714.2/29

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7103950.4/33

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

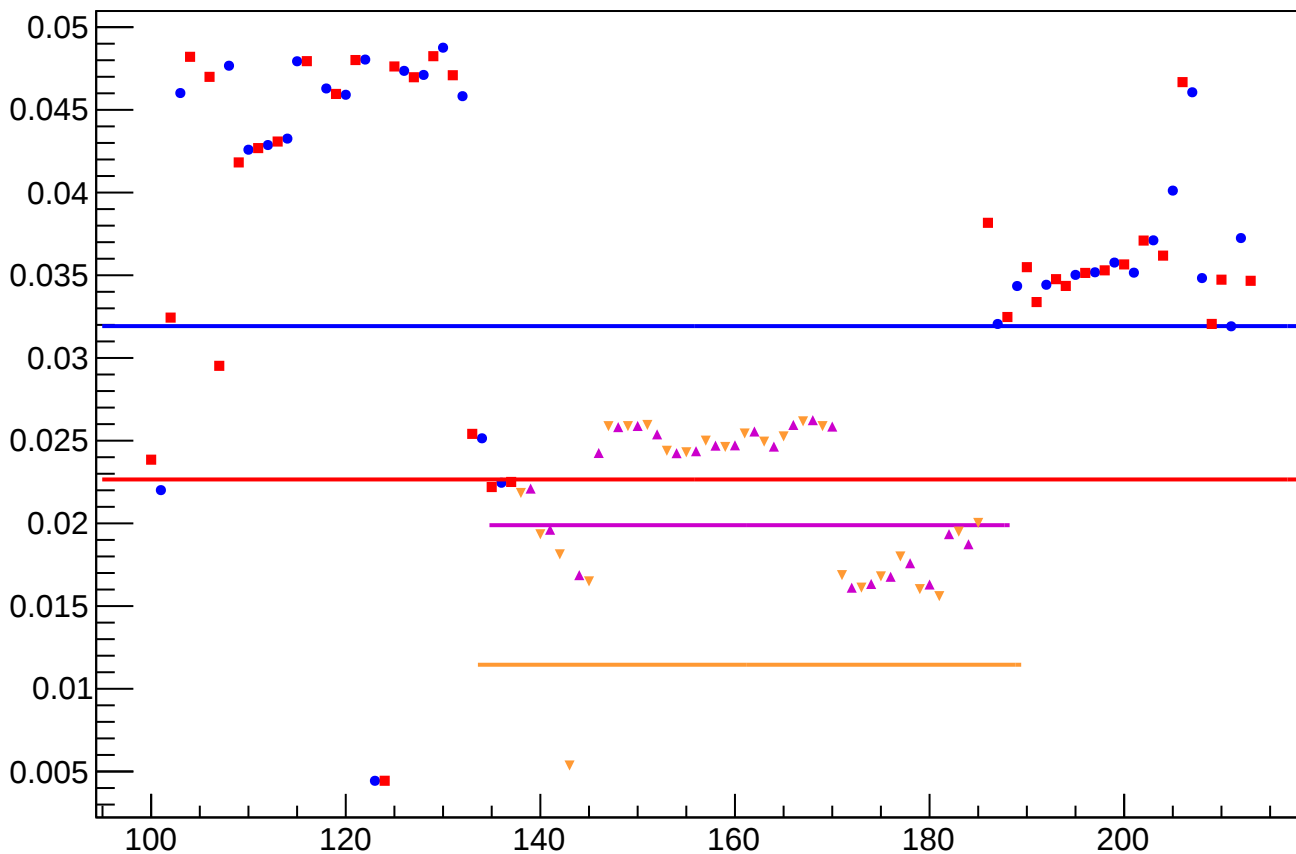
Right: 0.000+/-0.000 χ^2/NDF : 10987808.1/63

In: 0.000+/-0.000 χ^2/NDF :3692592.4/52

Out: 0.000+/-0.000 χ^2/NDF :7595334.9/58

All: 0.000+/-0.000 χ^2/NDF : 11458521.7/111

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 21786234383.1/29

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 : 71447976119.8/63

Right Out: 0.023+/-0.000

χ^2/NDF : 44852299973.9/33

In: 0.023+/-0.000

χ^2/NDF : 36397812182.6/52

Out: 0.013+/-0.000

χ^2/NDF : 100045487976.9/58

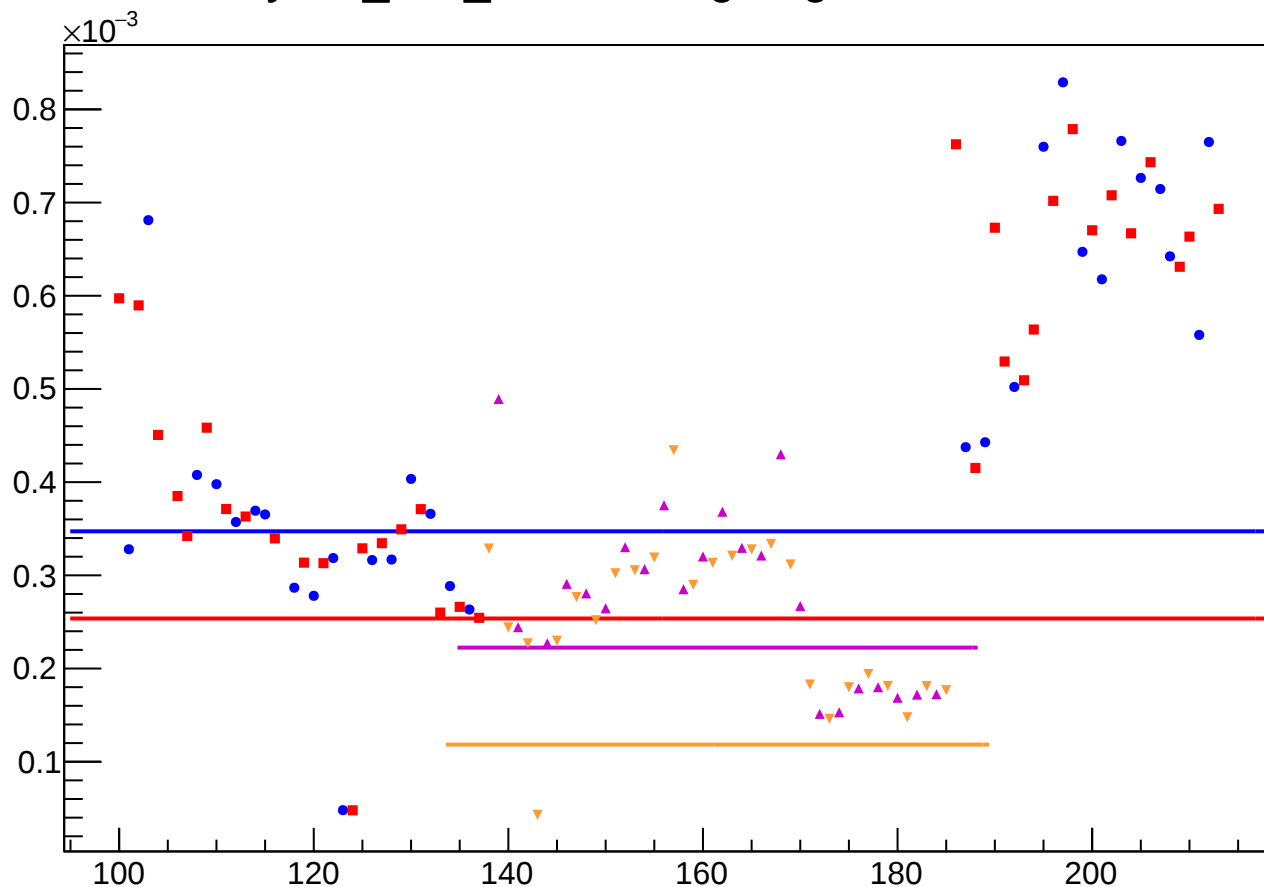
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 160229133842.8

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 7300074.0/29

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 13499785.4/33

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

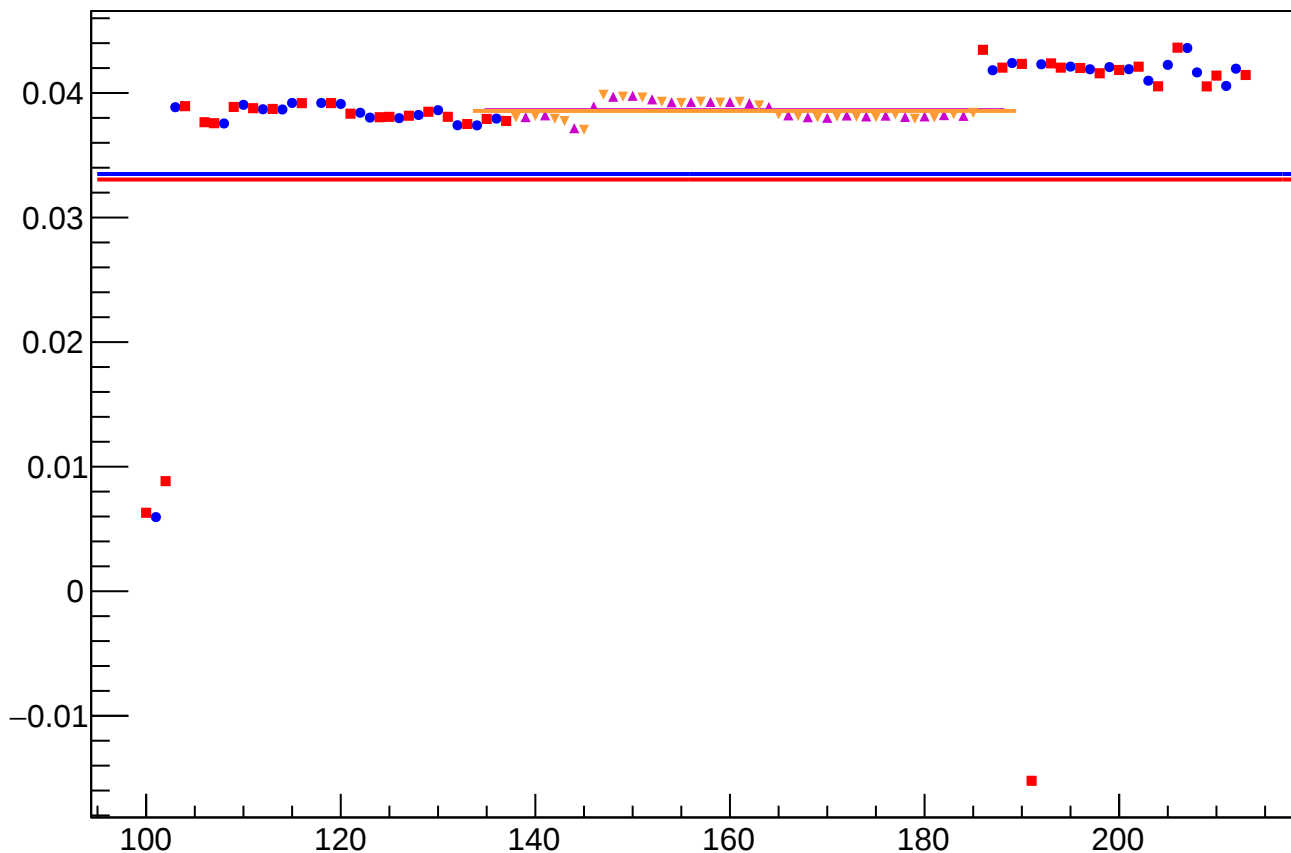
Right: 0.000+/-0.000 χ^2/NDF : 21779376.9/63

In: 0.000+/-0.000 χ^2/NDF :12764645.7/52

Out: 0.000+/-0.000 χ^2/NDF :31408746.7/58

All: 0.000+/-0.000 χ^2/NDF : 50777161.9/111

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.033+/-0.000

χ^2/NDF : 118675481101.6/29

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.033+/-0.000

χ^2/NDF : 302830463748.7/63

Right Out: 0.033+/-0.000

χ^2/NDF : 184087655087.6/33

In: 0.037+/-0.000

χ^2/NDF : 129784573714.3/52

Out: 0.036+/-0.000

χ^2/NDF : 197439635379.8/58

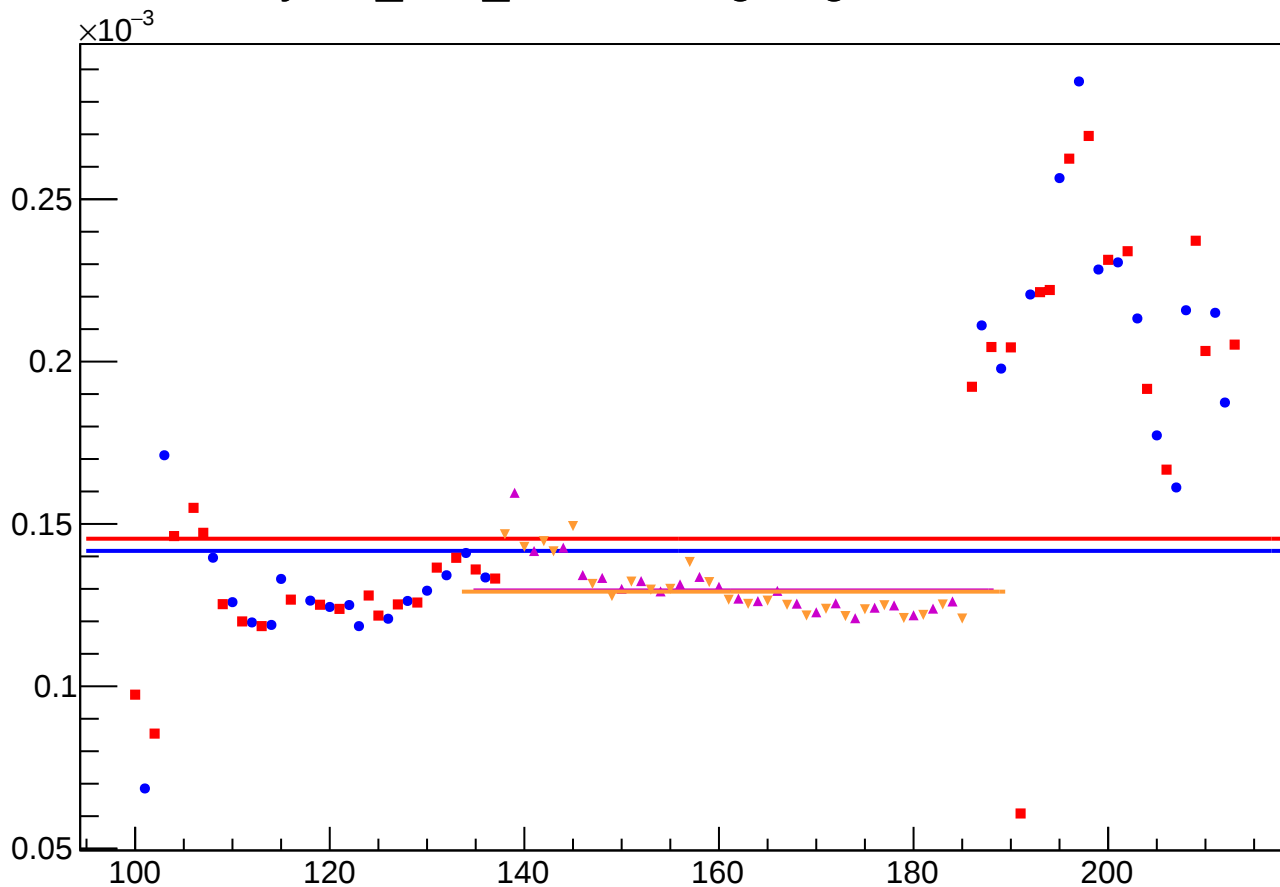
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.036+/-0.000

χ^2/NDF : 327249706114.1

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3618884.5/29

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3507903.4/33

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

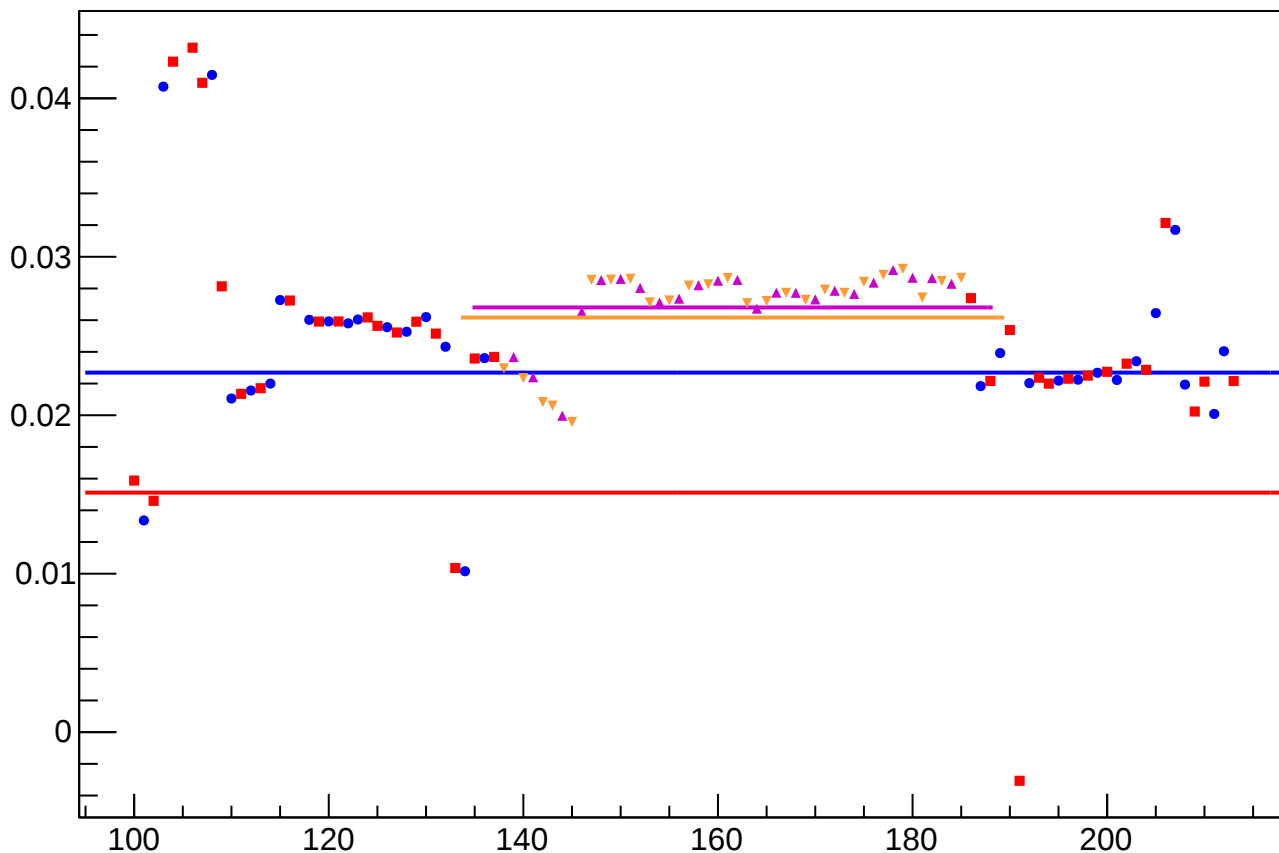
Right: 0.000+/-0.000 χ^2/NDF : 7136406.7/63

In: 0.000+/-0.000 χ^2/NDF :3853863.7/52

Out: 0.000+/-0.000 χ^2/NDF :3862766.1/58

All: 0.000+/-0.000 χ^2/NDF : 7718905.3/111

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4422993983.7/29

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.015+/-0.000 χ^2/NDF : 31762198373.4/33

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

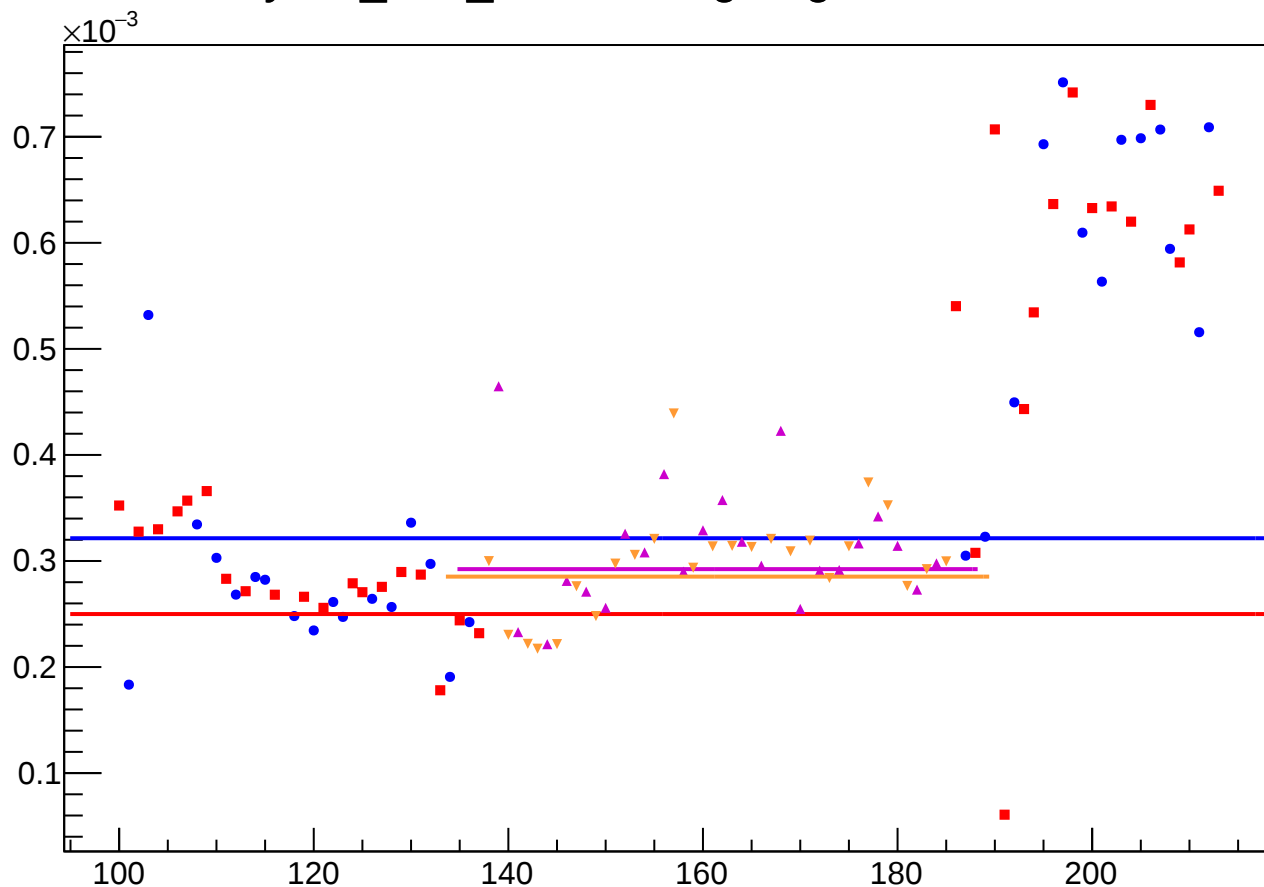
Right: 0.018+/-0.000 χ^2/NDF : 40157828169.8/63

In: 0.025+/-0.000 χ^2/NDF : 6964333829.7/52

Out: 0.021+/-0.000 χ^2/NDF : 45078266873.9/58

All: 0.023+/-0.000 χ^2/NDF : 54847954190.8/117

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5358877.2/29

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 10357974.3/33

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

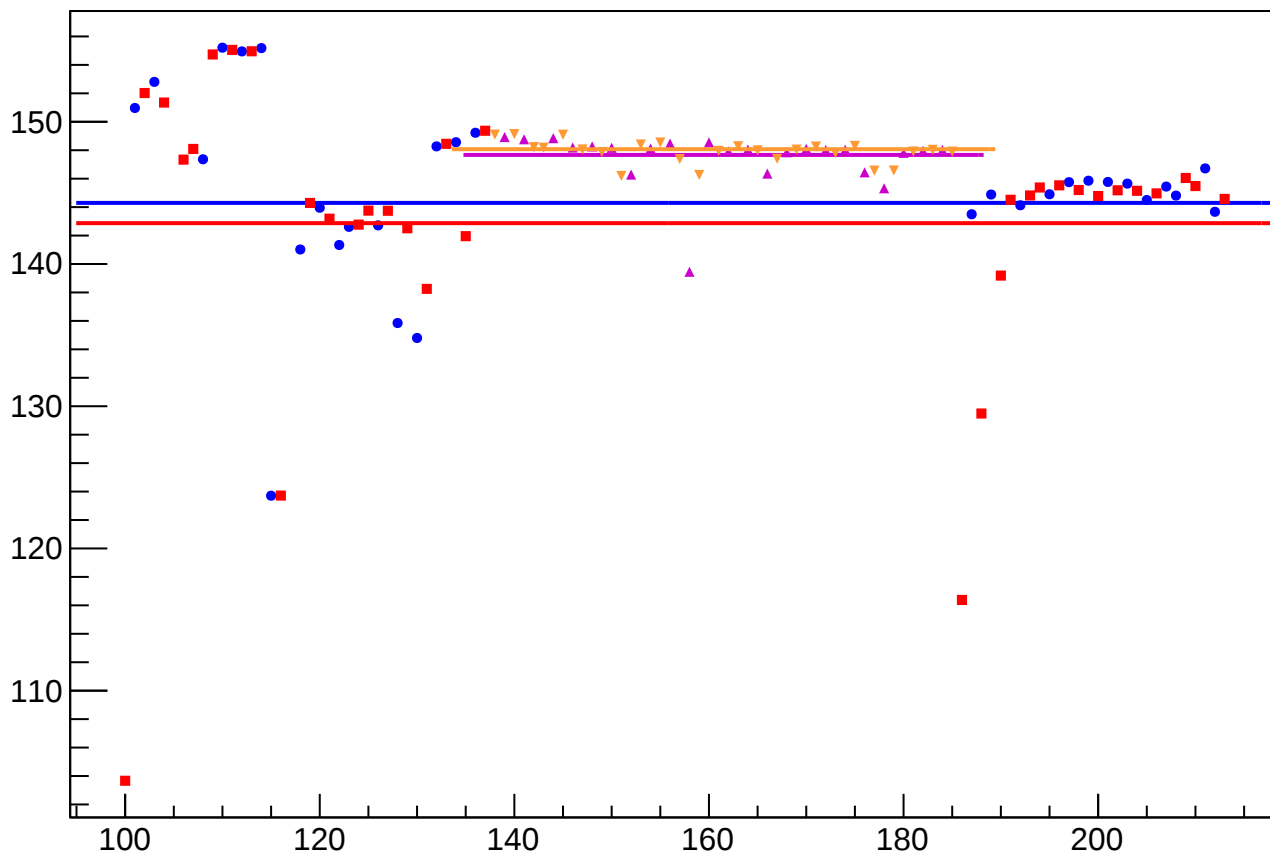
Right: 0.000+/-0.000 χ^2/NDF : 16424626.6/63

In: 0.000+/-0.000 χ^2/NDF :6379010.9/52

Out: 0.000+/-0.000 χ^2/NDF :11401235.4/58

All: 0.000+/-0.000 χ^2/NDF : 18176770.6/111

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.297 $\pm$ 0.000 χ^2 /NDF: 3503666446.4/29

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.872 $\pm$ 0.000 χ^2 /NDF: 7450594169.7/33

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

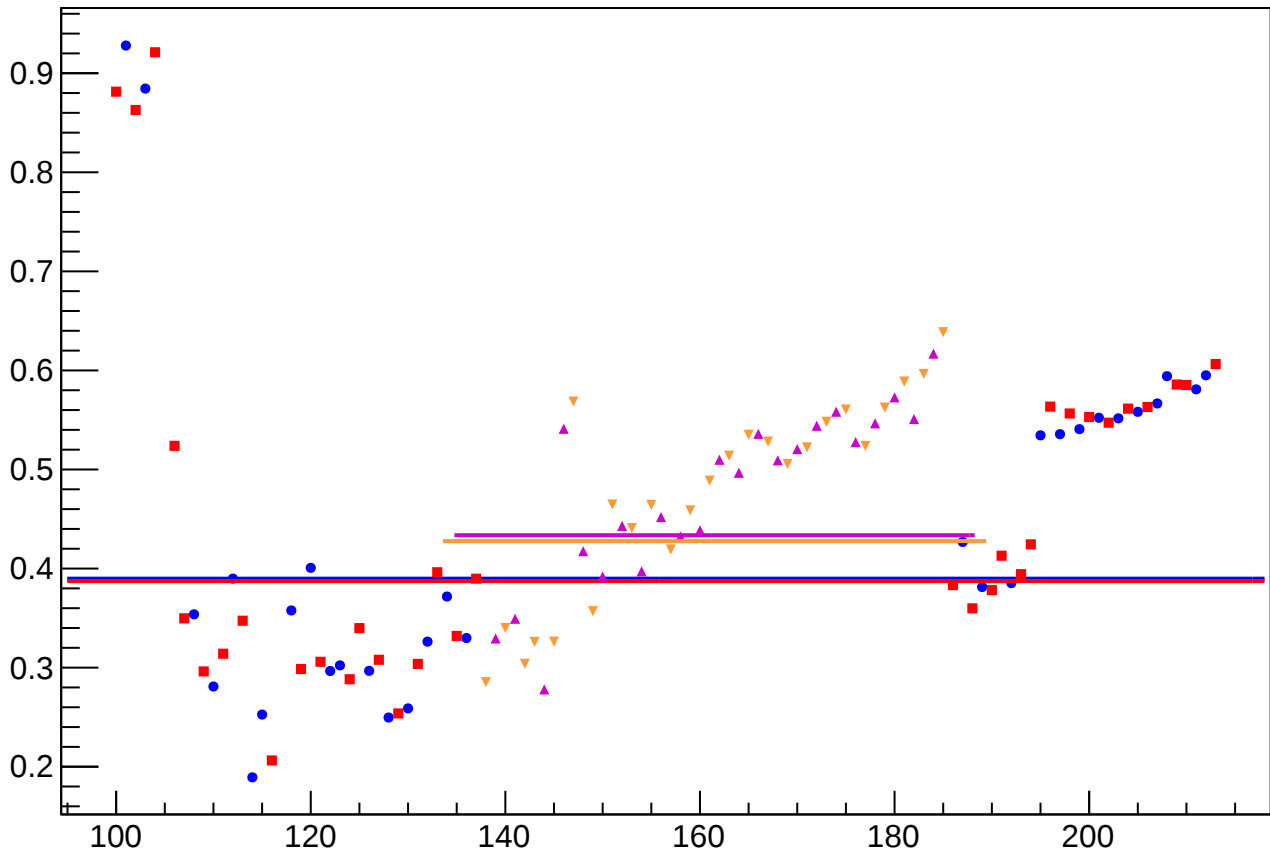
Right: 143.545 $\pm$ 0.000 χ^2 /NDF: 11049251804.2/63

In: 145.963 $\pm$ 0.000 χ^2 /NDF: 4346934142.8/52

Out: 145.389 $\pm$ 0.000 χ^2 /NDF: 8811617771.1/58

All: 145.663 $\pm$ 0.000 χ^2 /NDF: 13188691050.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.390 $\pm$ 0.000 χ^2 /NDF: 3238765.6/29

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.387 $\pm$ 0.000 χ^2 /NDF: 3083766.7/33

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

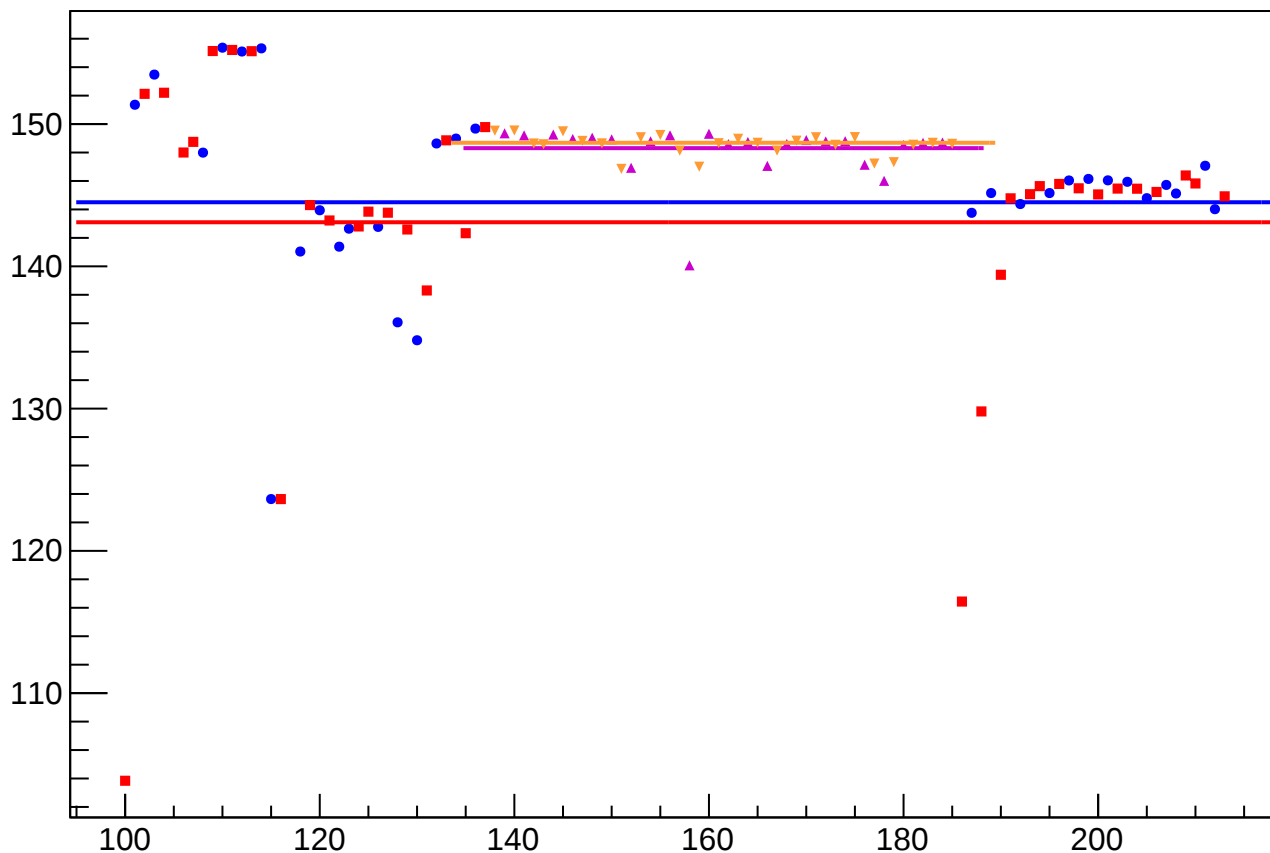
Right: 0.389 $\pm$ 0.000 χ^2 /NDF: 6323065.1/63

In: 0.411 $\pm$ 0.000 χ^2 /NDF:4903630.7/52

Out: 0.407 $\pm$ 0.000 χ^2 /NDF:5136304.0/58

All: 0.409 $\pm$ 0.000 χ^2 /NDF: 10043702.2/111

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.505 $\pm$ 0.000 χ^2 /NDF: 3554098339.8/29

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 143.099 $\pm$ 0.000 χ^2 /NDF: 7402242819.5/33

Left In: 148.307 $\pm$ 0.000 χ^2 /NDF: 333585558.2/22

Left: 148.504 $\pm$ 0.000 χ^2 /NDF: 392094013.2/47

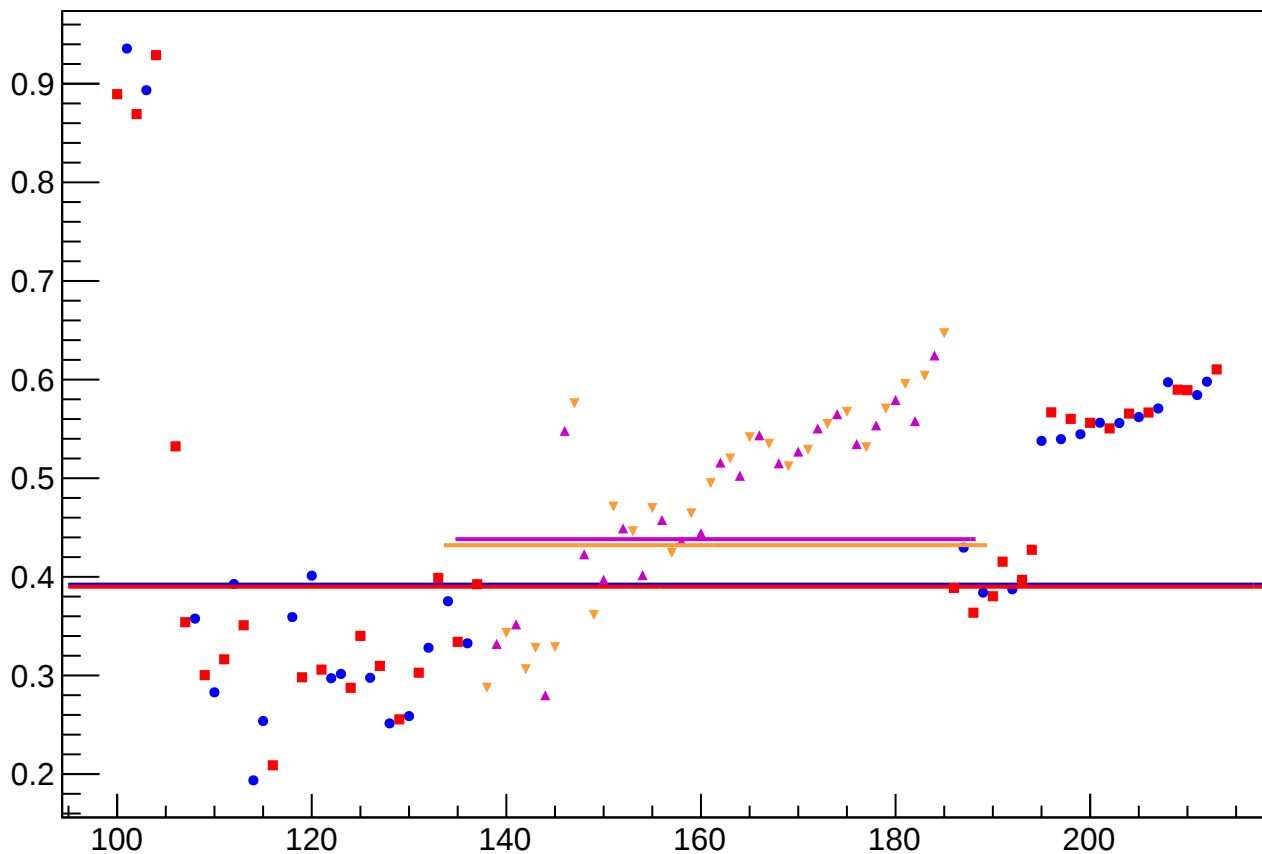
Right: 143.763 $\pm$ 0.000 χ^2 /NDF: 11047610791.4/63

In: 146.373 $\pm$ 0.000 χ^2 /NDF: 4509997331.7/52

Out: 145.792 $\pm$ 0.000 χ^2 /NDF: 8923550743.9/58

All: 146.069 $\pm$ 0.000 χ^2 /NDF: 13463989840.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.392 $\pm$ 0.000 χ^2 /NDF: 3245892.2/29

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.390 $\pm$ 0.000 χ^2 /NDF: 3087559.4/33

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

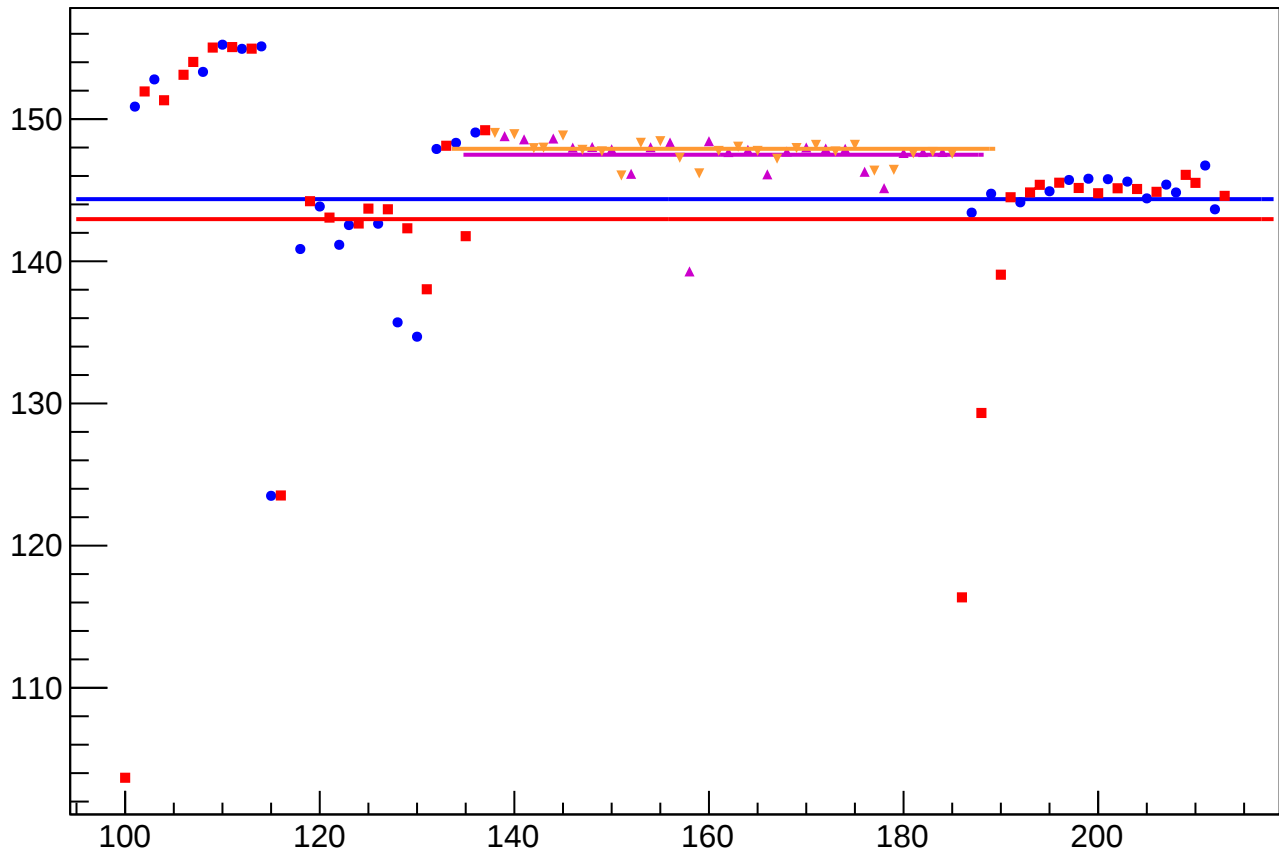
Right: 0.391 $\pm$ 0.000 χ^2 /NDF: 6333867.9/63

In: 0.415 $\pm$ 0.000 χ^2 /NDF:4950699.2/52

Out: 0.410 $\pm$ 0.000 χ^2 /NDF:5183712.9/58

All: 0.412 $\pm$ 0.000 χ^2 /NDF: 10138000.9/111

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.370 $\pm$ 0.000 χ^2 /NDF: 3709289665.7/29

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 142.964 $\pm$ 0.000 χ^2 /NDF: 7824921810.3/33

Left In: 147.493 $\pm$ 0.000 χ^2 /NDF: 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2 /NDF: 416149781.4/47

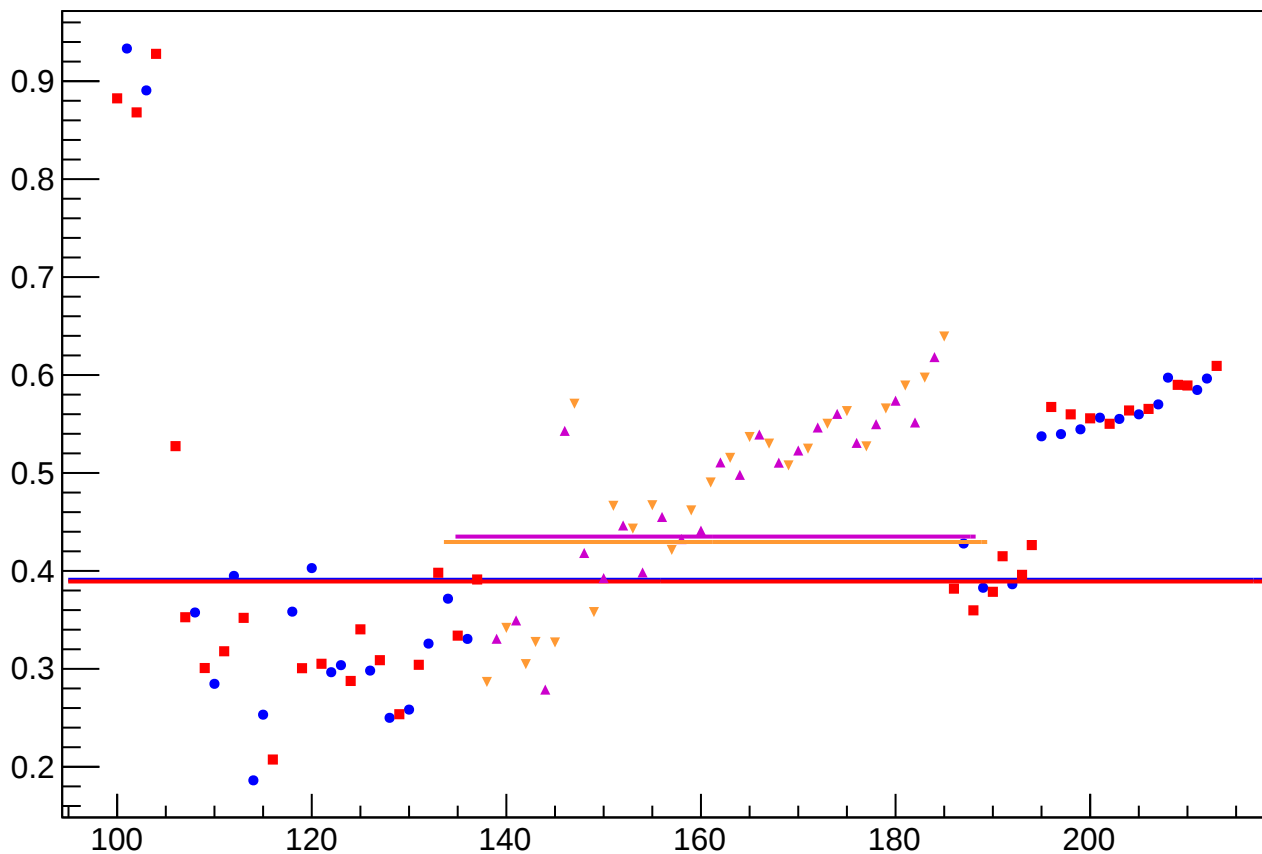
Right: 143.629 $\pm$ 0.000 χ^2 /NDF: 11625836571.9/63

In: 145.913 $\pm$ 0.000 χ^2 /NDF: 4477170811.0/52

Out: 145.360 $\pm$ 0.000 χ^2 /NDF: 9050702214.5/58

All: 145.624 $\pm$ 0.000 χ^2 /NDF: 13555682796.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.391+/-0.000 χ^2/NDF : 3274645.7/29

Left Out: 0.430+/-0.000 χ^2/NDF :1895701.4/24

Right Out: 0.389+/-0.000 χ^2/NDF : 3090686.0/33

Left In: 0.435+/-0.000 χ^2/NDF :1502712.5/22

Left: 0.432+/-0.000 χ^2/NDF : 3401133.5/47

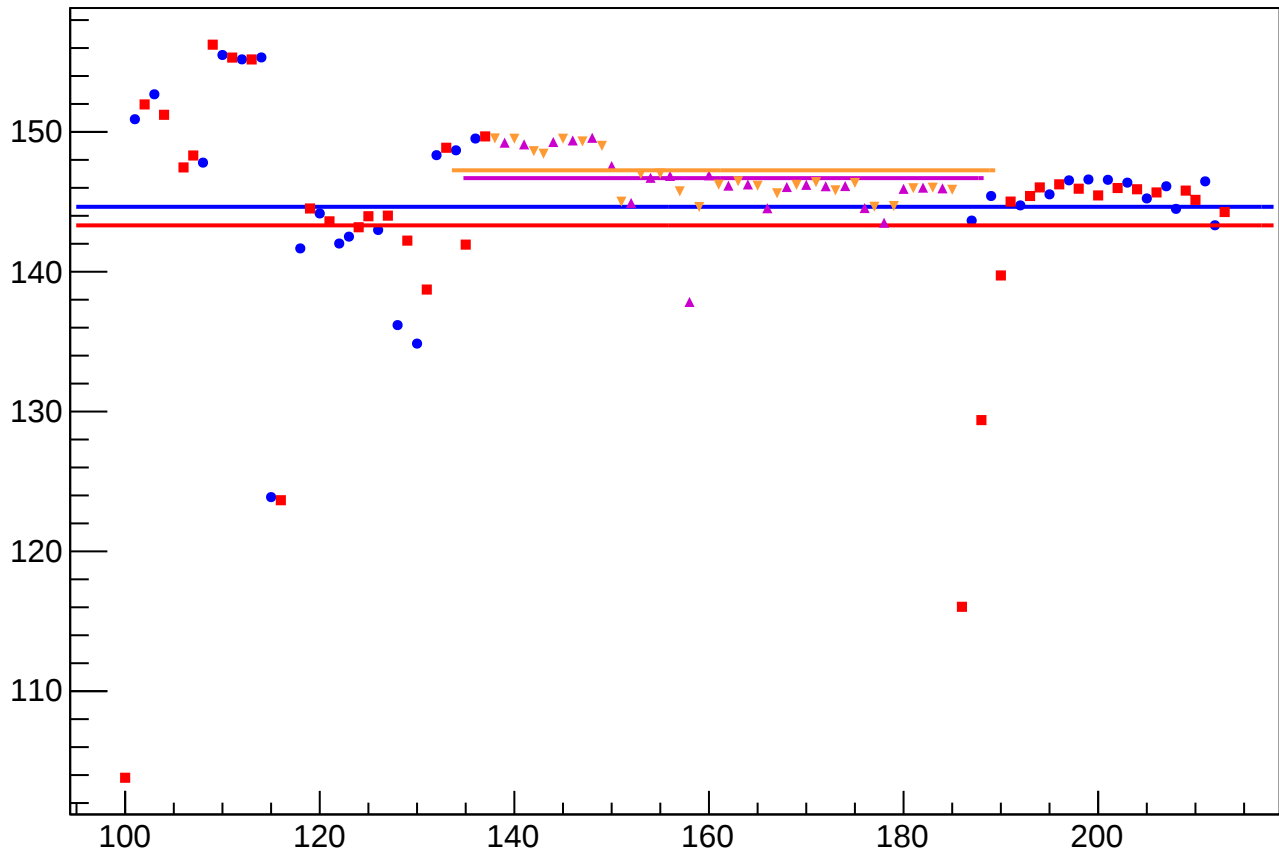
Right: 0.390+/-0.000 χ^2/NDF : 6365621.9/63

In: 0.413+/-0.000 χ^2/NDF :4946256.4/52

Out: 0.409+/-0.000 χ^2/NDF :5140674.5/58

All: 0.411+/-0.000 χ^2/NDF : 10089872.0/111

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.644 ± 0.000 χ^2/NDF : 3232422586.3/29

Left Out: 147.255 ± 0.000 χ^2/NDF : 262138049.8/24

Right Out: 143.315 ± 0.000 χ^2/NDF : 7143560390.2/33

Left In: 146.695 ± 0.000 χ^2/NDF : 557896803.1/22

Left: 146.984 ± 0.000 χ^2/NDF : 833217060.4/47

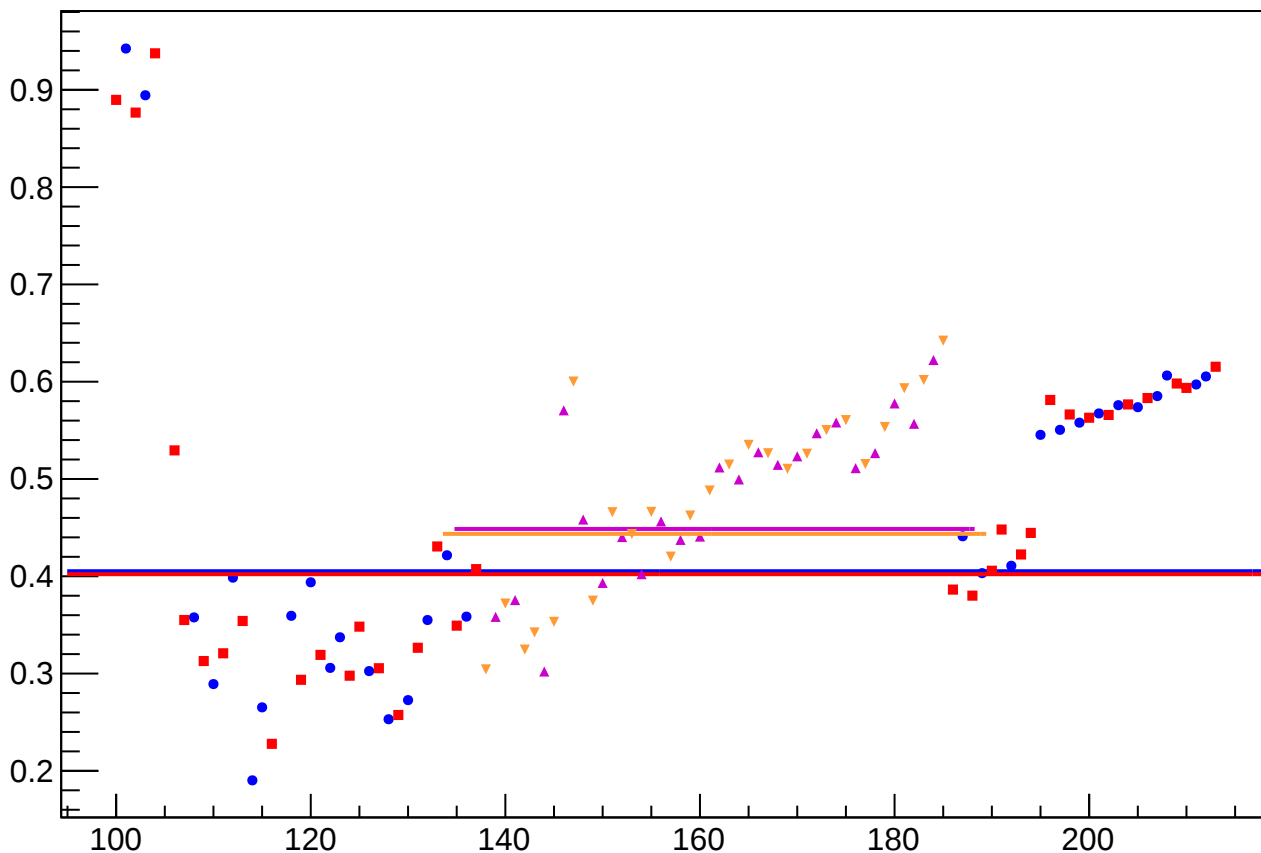
Right: 143.942 ± 0.000 χ^2/NDF : 10452468367.7/63

In: 145.668 ± 0.000 χ^2/NDF : 3962346245.1/52

Out: 145.233 ± 0.000 χ^2/NDF : 8099286967.3/58

All: 145.441 ± 0.000 χ^2/NDF : 12077751048.3/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.405 $\pm$ 0.000 χ^2 /NDF: 3168739.0/29

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.402 $\pm$ 0.000 χ^2 /NDF: 2986554.9/33

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

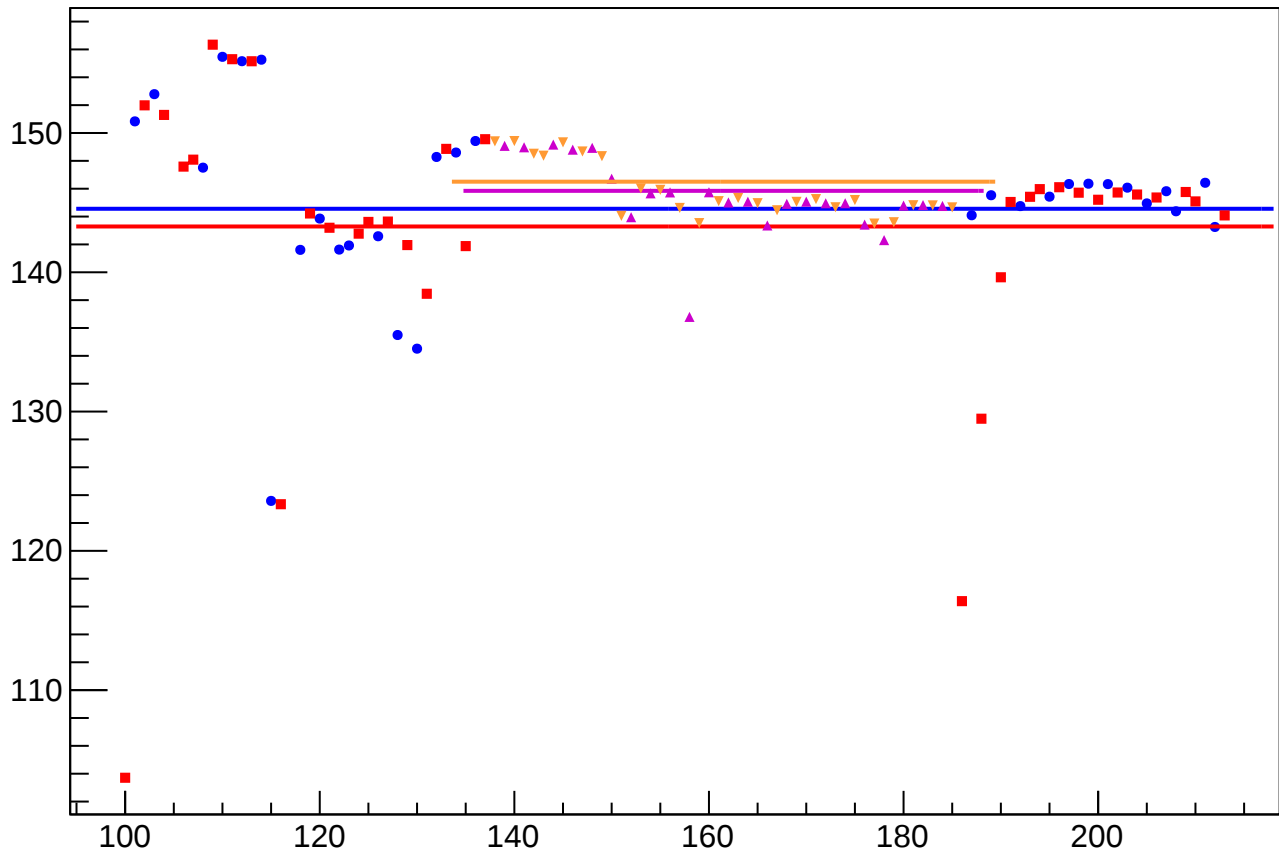
Right: 0.404 $\pm$ 0.000 χ^2 /NDF: 6156104.7/63

In: 0.427 $\pm$ 0.000 χ^2 /NDF:4455796.8/52

Out: 0.422 $\pm$ 0.000 χ^2 /NDF:4623639.8/58

All: 0.424 $\pm$ 0.000 χ^2 /NDF: 9082979.8/111

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.559 $\pm$ 0.000 χ^2 /NDF: 3342359983.3/29

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.288 $\pm$ 0.000 χ^2 /NDF: 7095918472.1/33

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

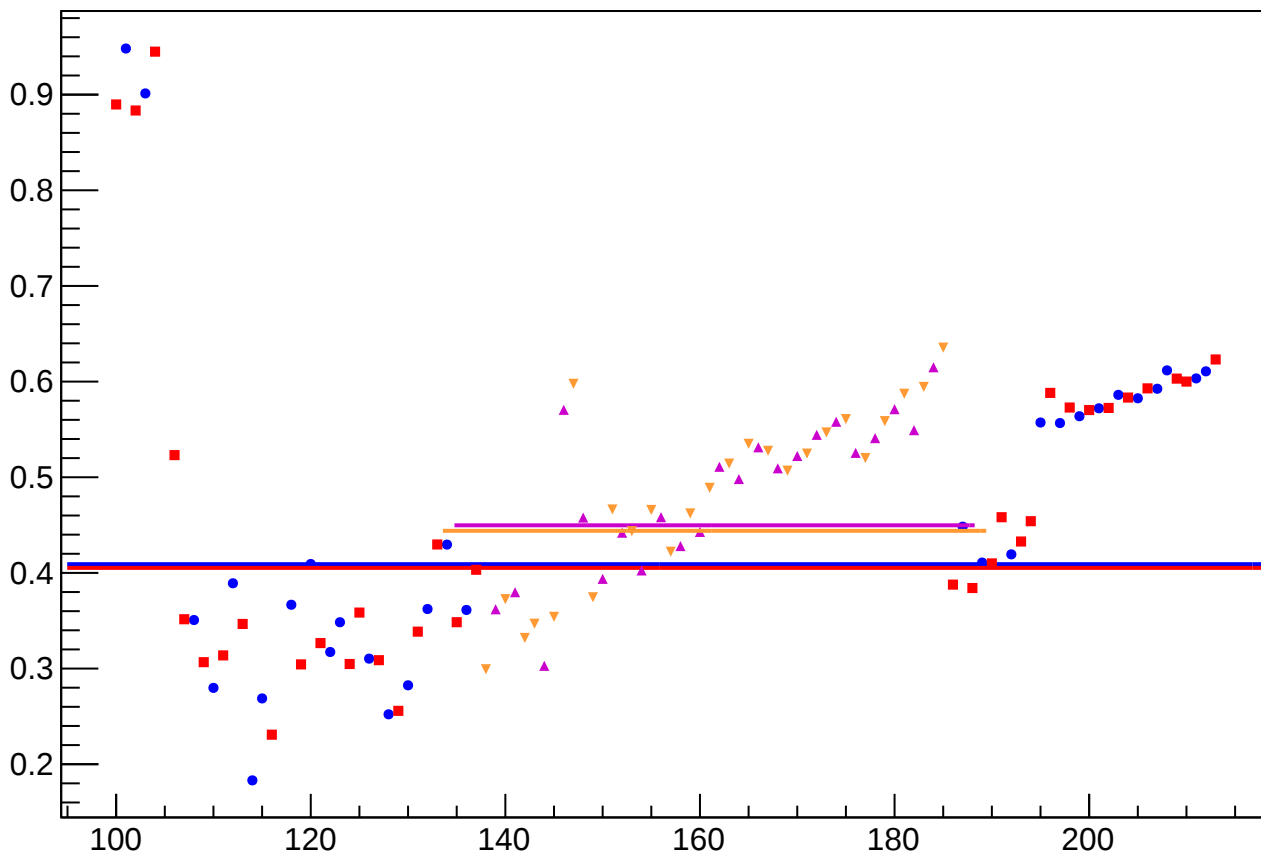
Right: 143.886 $\pm$ 0.000 χ^2 /NDF: 10506791506.9/63

In: 145.207 $\pm$ 0.000 χ^2 /NDF: 4103921459.9/52

Out: 144.868 $\pm$ 0.000 χ^2 /NDF: 7955251175.3/58

All: 145.030 $\pm$ 0.000 χ^2 /NDF: 12068905343.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.409 $\pm$ 0.000 χ^2 /NDF: 3215675.9/29

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.405 $\pm$ 0.000 χ^2 /NDF: 3022536.2/33

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

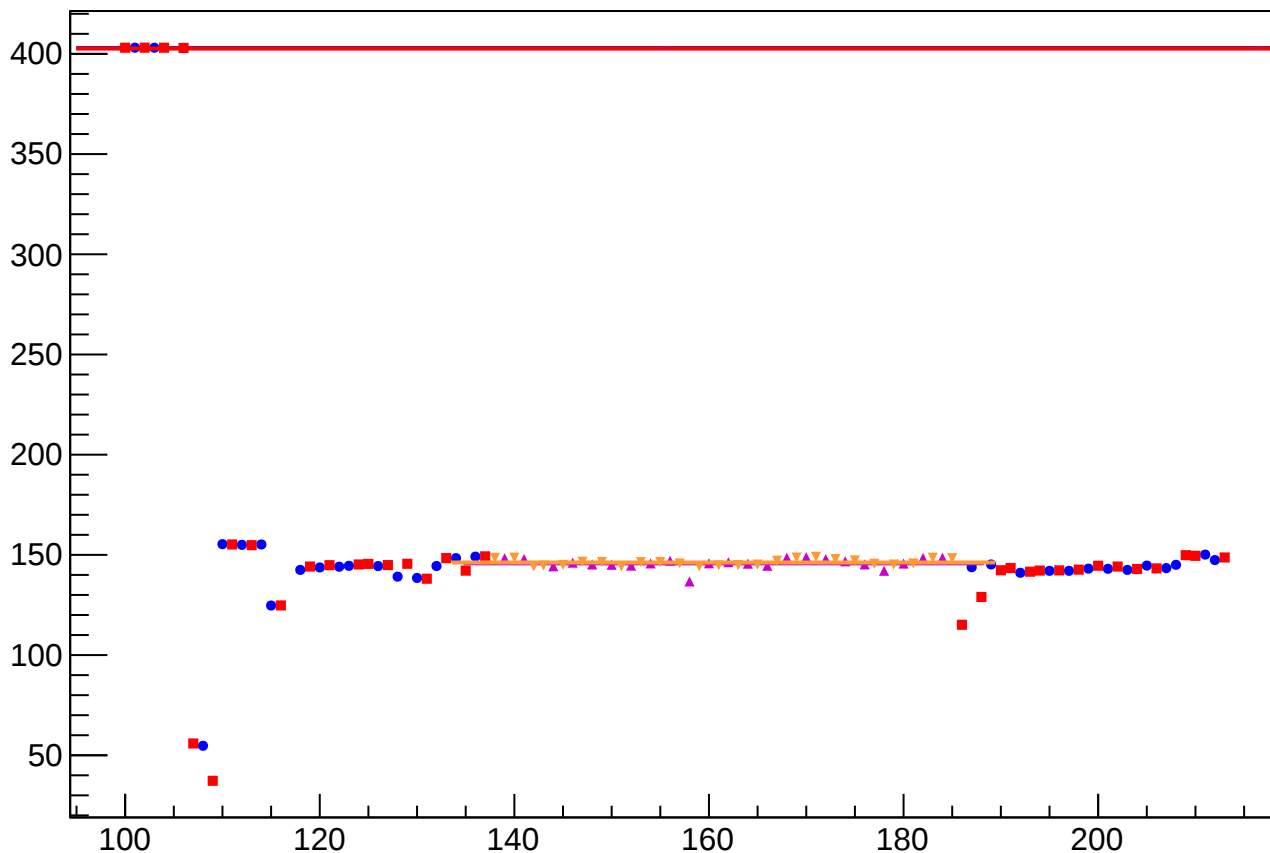
Right: 0.407 $\pm$ 0.000 χ^2 /NDF: 6239476.4/63

In: 0.430 $\pm$ 0.000 χ^2 /NDF:4454264.4/52

Out: 0.424 $\pm$ 0.000 χ^2 /NDF:4618587.7/58

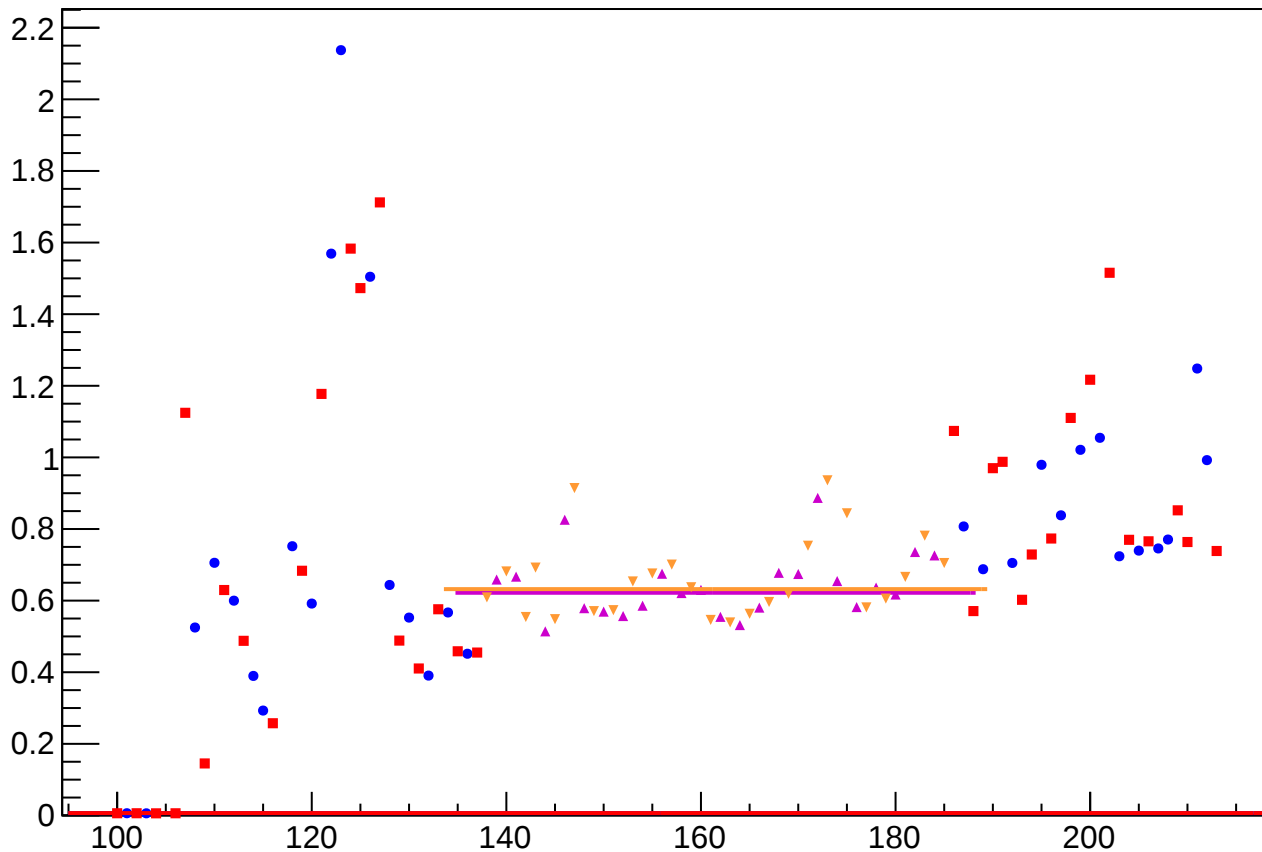
All: 0.427 $\pm$ 0.000 χ^2 /NDF: 9077586.1/111

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.869+/-0.000	χ^2/NDF : 1808461392903.5/29	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.776+/-0.000	χ^2/NDF : 5873179860034.0/
Right Out: 402.694+/-0.000	χ^2/NDF : 4064213651422.7/33	In: 402.576+/-0.000	χ^2/NDF : 4156879809218.0/52
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.433+/-0.000	χ^2/NDF : 6431671059478.9/5
		All: 402.500+/-0.000	χ^2/NDF : 10588890583

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 23709580.2/29

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 26266291.7/33

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

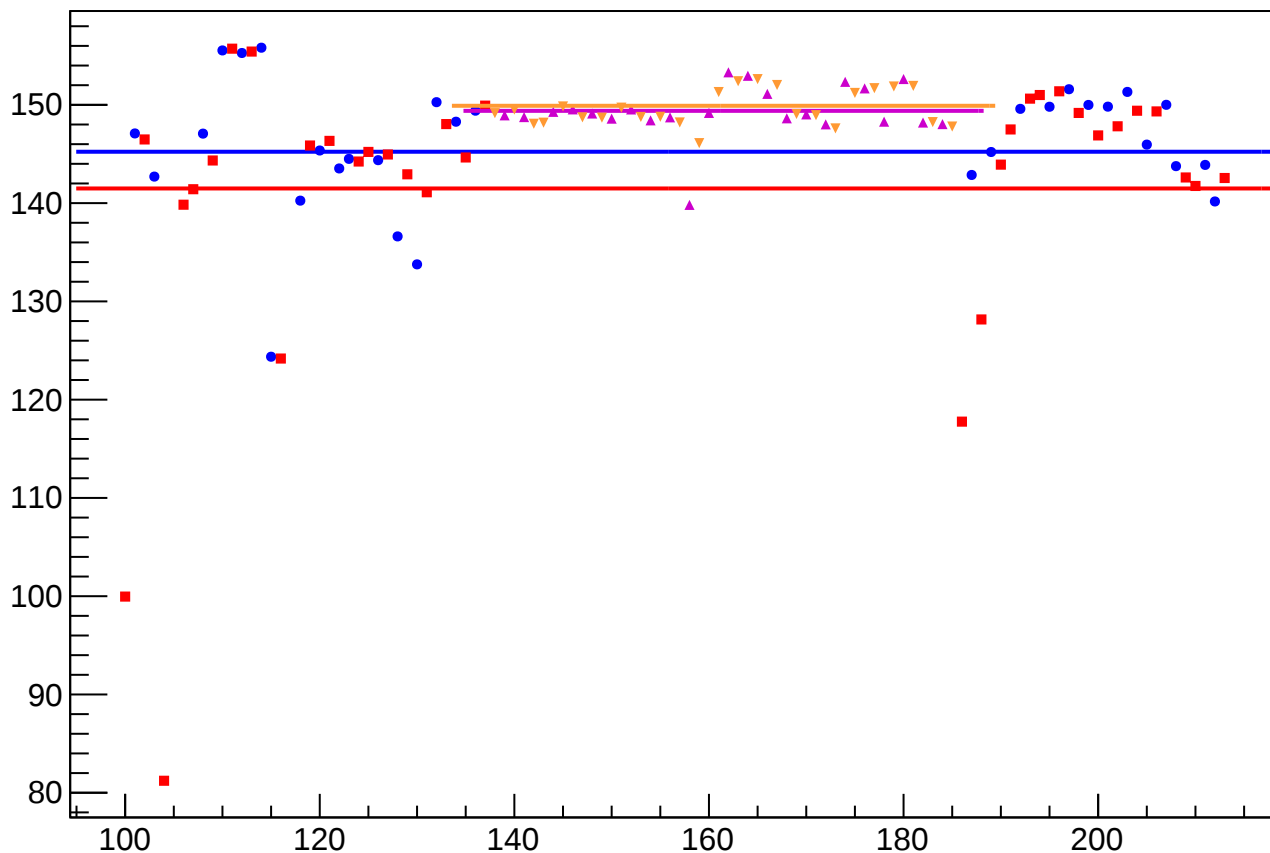
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 49975877.9/63

In: 0.007 $\pm$ 0.000 χ^2 /NDF:51015863.9/52

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:55037485.7/58

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 106053432.5/111

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.229 $\pm$ 0.000

χ^2 /NDF: 1360246864.2/29

Left Out: 149.906 $\pm$ 0.000

χ^2 /NDF: 163261802.4/24

Right Out: 141.491 $\pm$ 0.000

χ^2 /NDF: 3251497861.1/33

Left In: 149.391 $\pm$ 0.000

χ^2 /NDF: 437129920.4/22

Left: 149.657 $\pm$ 0.000

χ^2 /NDF: 606930259.3/47

Right: 143.123 $\pm$ 0.000

χ^2 /NDF: 4800211846.0/63

In: 147.998 $\pm$ 0.000

χ^2 /NDF: 2073306779.3/52

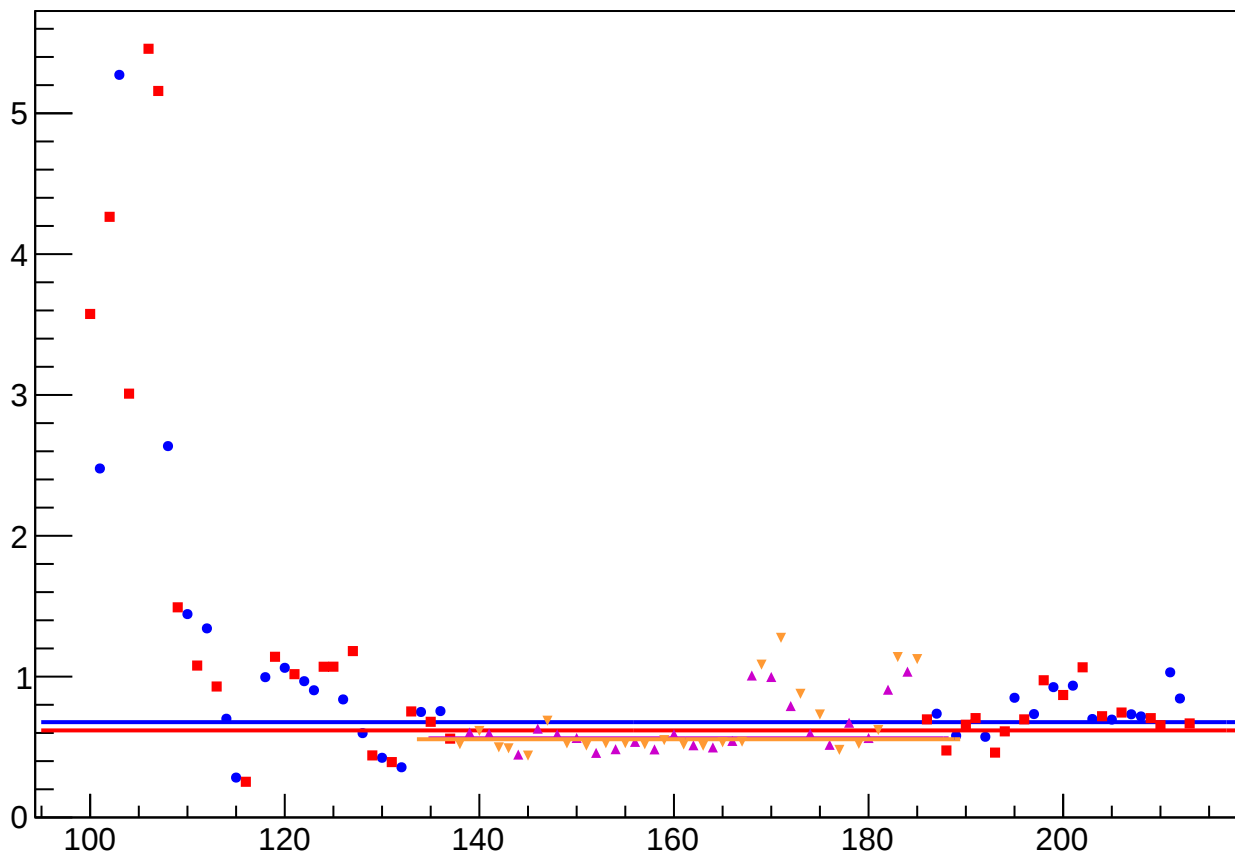
Out: 146.729 $\pm$ 0.000

χ^2 /NDF: 4776291033.6/58

All: 147.321 $\pm$ 0.000

χ^2 /NDF: 6911044566.4

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.677 $\pm$ 0.000 χ^2 /NDF: 4185701.4/29

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.618 $\pm$ 0.000 χ^2 /NDF: 5583135.3/33

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

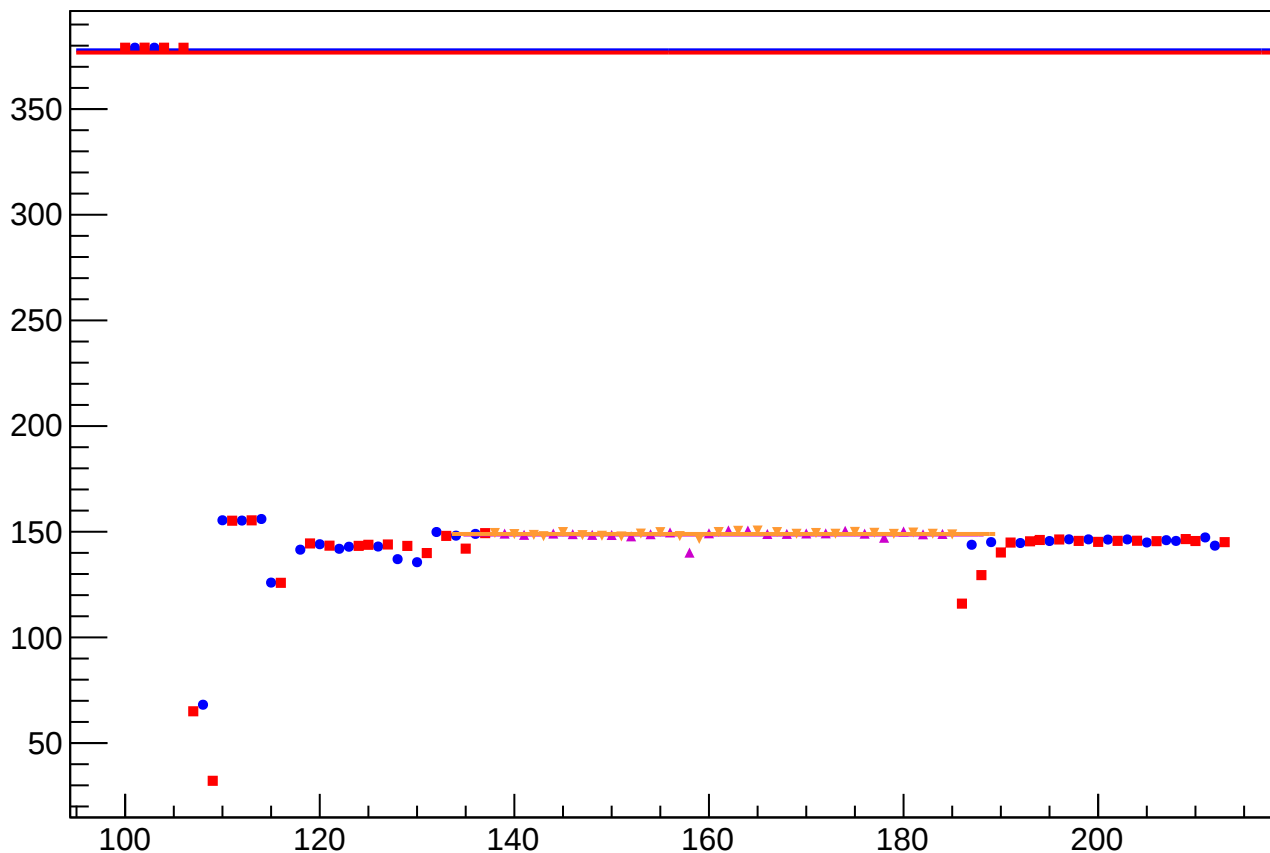
Right: 0.644 $\pm$ 0.000 χ^2 /NDF: 9861685.0/63

In: 0.600 $\pm$ 0.000 χ^2 /NDF:5915735.4/52

Out: 0.579 $\pm$ 0.000 χ^2 /NDF:7507577.4/58

All: 0.589 $\pm$ 0.000 χ^2 /NDF: 13458233.4/111

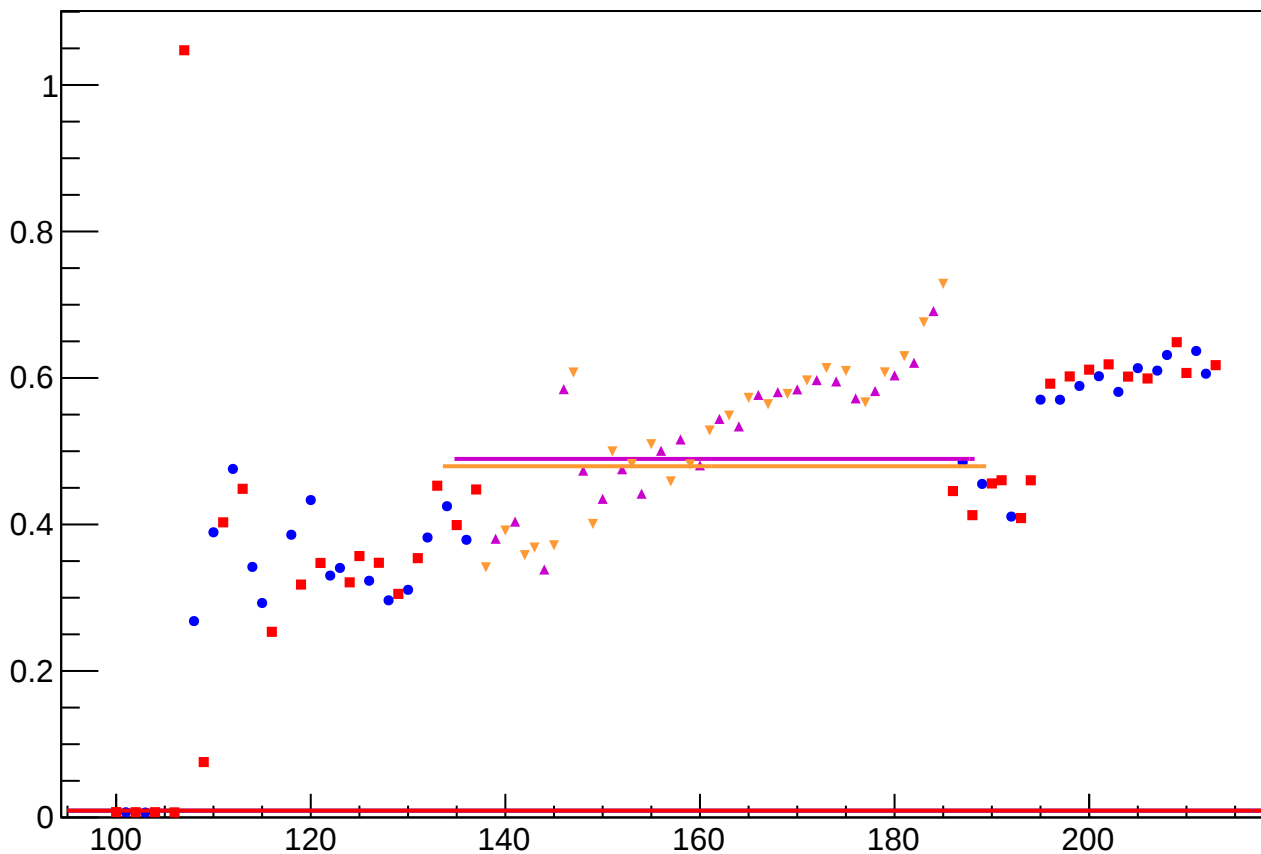
yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.791 $\pm$ 0.000 χ^2 /NDF: 4030112928763.2/29
 Left Out: 148.946 $\pm$ 0.000 χ^2 /NDF: 63974844.7/24
 Right Out: 376.740 $\pm$ 0.000 χ^2 /NDF: 10248591637419.9/33
 Left In: 148.683 $\pm$ 0.000 χ^2 /NDF: 253848207.3/22

Left: 148.820 $\pm$ 0.000 χ^2 /NDF: 320306424.2/47
 Right: 377.231 $\pm$ 0.000 χ^2 /NDF: 14286571507050.0
 In: 376.614 $\pm$ 0.000 χ^2 /NDF: 7628852175019.2/52
 Out: 375.624 $\pm$ 0.000 χ^2 /NDF: 14114109767607.0
 All: 376.087 $\pm$ 0.000 χ^2 /NDF: 217499646823.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 27017845.6/29

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 28673144.5/33

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

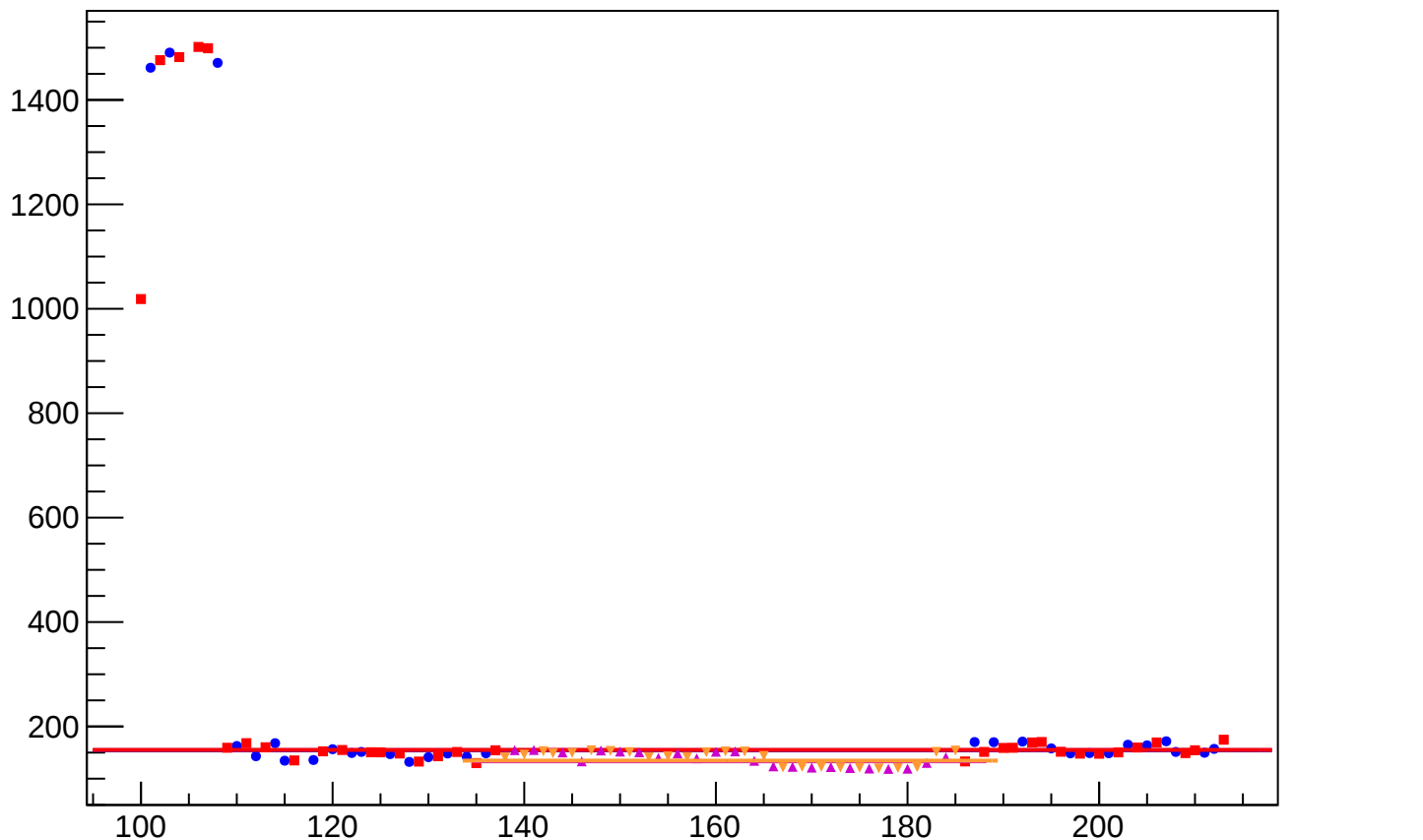
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 55691038.3/63

In: 0.012 $\pm$ 0.000 χ^2 /NDF:59729676.7/52

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:63124618.4/58

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 122854460.1/111

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.531+/-0.000 χ^2/NDF : 25958528406.1/29

Left Out: 134.585+/-0.000 χ^2/NDF : 4387324151.1/24

Right Out: 155.079+/-0.000 χ^2/NDF : 35198863848.3/33

Left In: 133.309+/-0.000 χ^2/NDF : 4353039408.6/22

Left: 133.958+/-0.000 χ^2/NDF : 8759337937.7/47

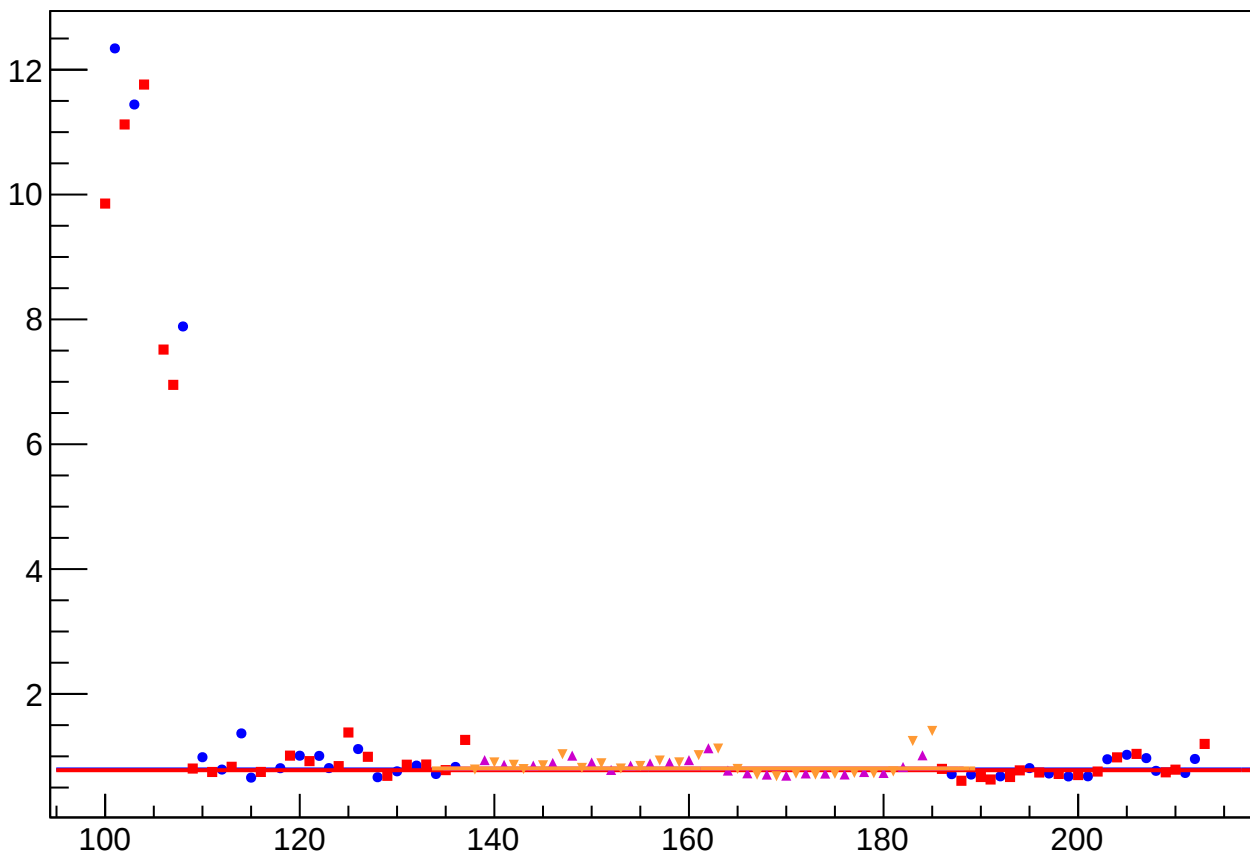
Right: 154.821+/-0.000 χ^2/NDF : 61160352803.4/63

In: 142.836+/-0.000 χ^2/NDF : 34951112692.2/52

Out: 144.184+/-0.000 χ^2/NDF : 44256552255.6/58

All: 143.534+/-0.000 χ^2/NDF : 79246817855.6/136

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.790+/-0.000 χ^2/NDF : 3055910.1/29

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.778+/-0.000 χ^2/NDF : 3447635.1/33

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

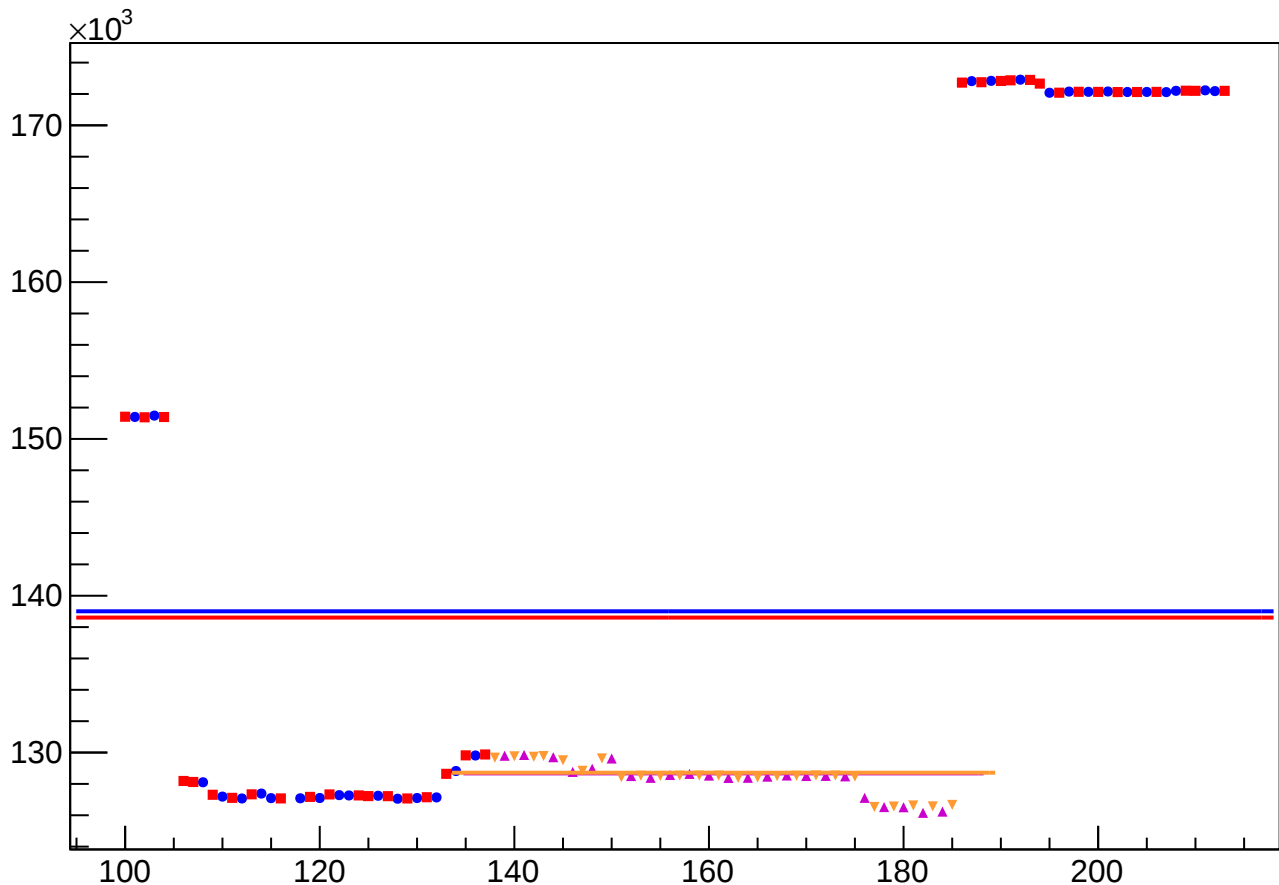
Right: 0.784+/-0.000 χ^2/NDF : 6506547.9/63

In: 0.798+/-0.000 χ^2/NDF : 3539832.0/52

Out: 0.793+/-0.000 χ^2/NDF : 4170260.6/58

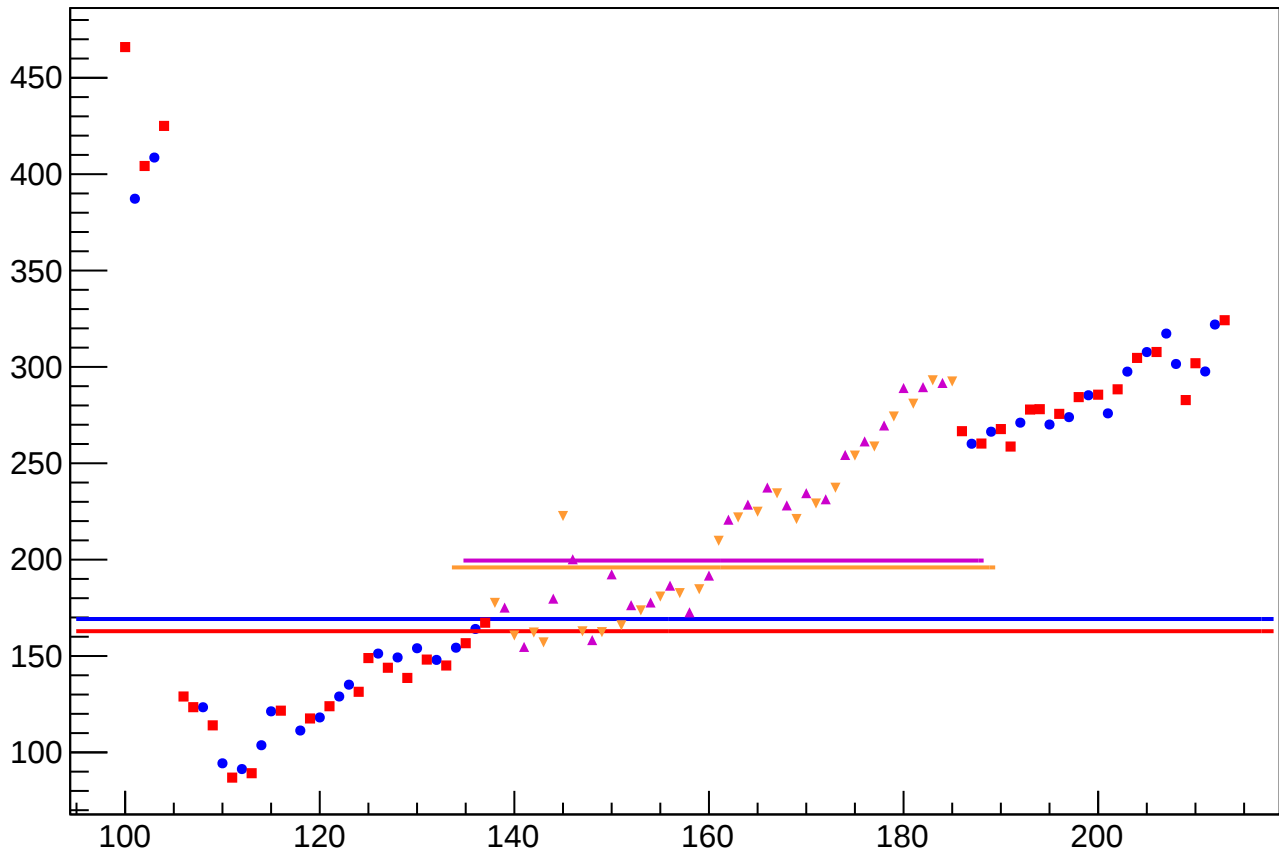
All: 0.796+/-0.000 χ^2/NDF : 7711136.6/111

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 139008.108 $\pm$ 0.047	χ^2 /NDF: 167165776526.4/29	Left: 128692.941 $\pm$ 0.034	χ^2 /NDF: 683588051.4/47
Left Out: 128713.791 $\pm$ 0.047	χ^2 /NDF: 348293942.5/24	Right: 138793.063 $\pm$ 0.032	χ^2 /NDF: 358025626083
Right Out: 138608.247 $\pm$ 0.044	χ^2 /NDF: 190821532311.4/33	In: 133996.133 $\pm$ 0.034	χ^2 /NDF: 190589506713.2
Left In: 128670.094 $\pm$ 0.049	χ^2 /NDF: 334875494.0/22	Out: 133959.577 $\pm$ 0.032	χ^2 /NDF: 215018704245
		All: 133976.734 $\pm$ 0.023	χ^2 /NDF: 405608824

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 169.200 $\pm$ 0.033 χ^2 /NDF: 5716564.1/29

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF: 1316091.7/24

Right Out: 162.876 $\pm$ 0.031 χ^2 /NDF: 6449188.1/33

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

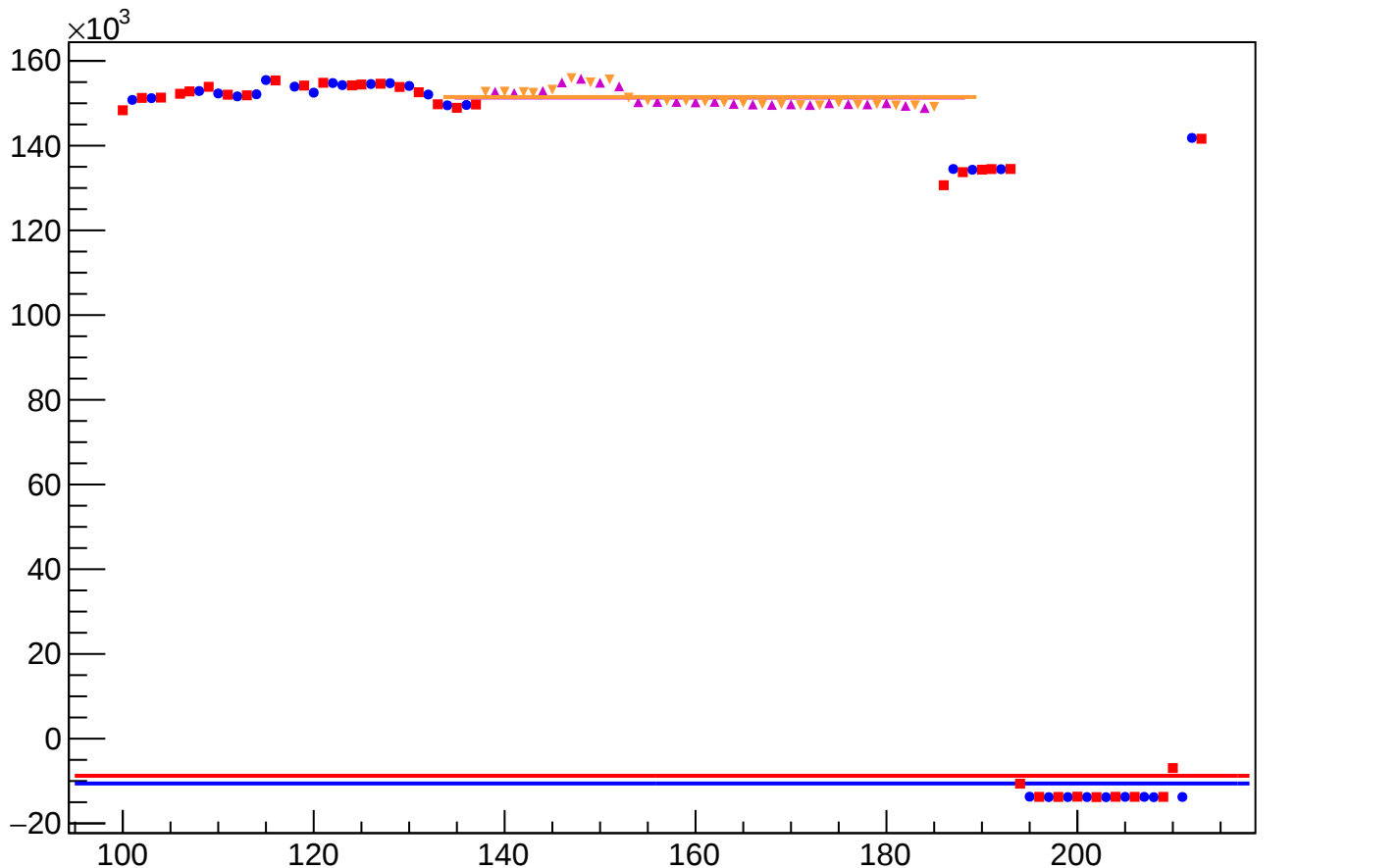
Right: 165.799 $\pm$ 0.023 χ^2 /NDF: 12184924.2/63

In: 183.905 $\pm$ 0.024 χ^2 /NDF: 7289400.3/52

Out: 178.421 $\pm$ 0.023 χ^2 /NDF: 8298689.6/58

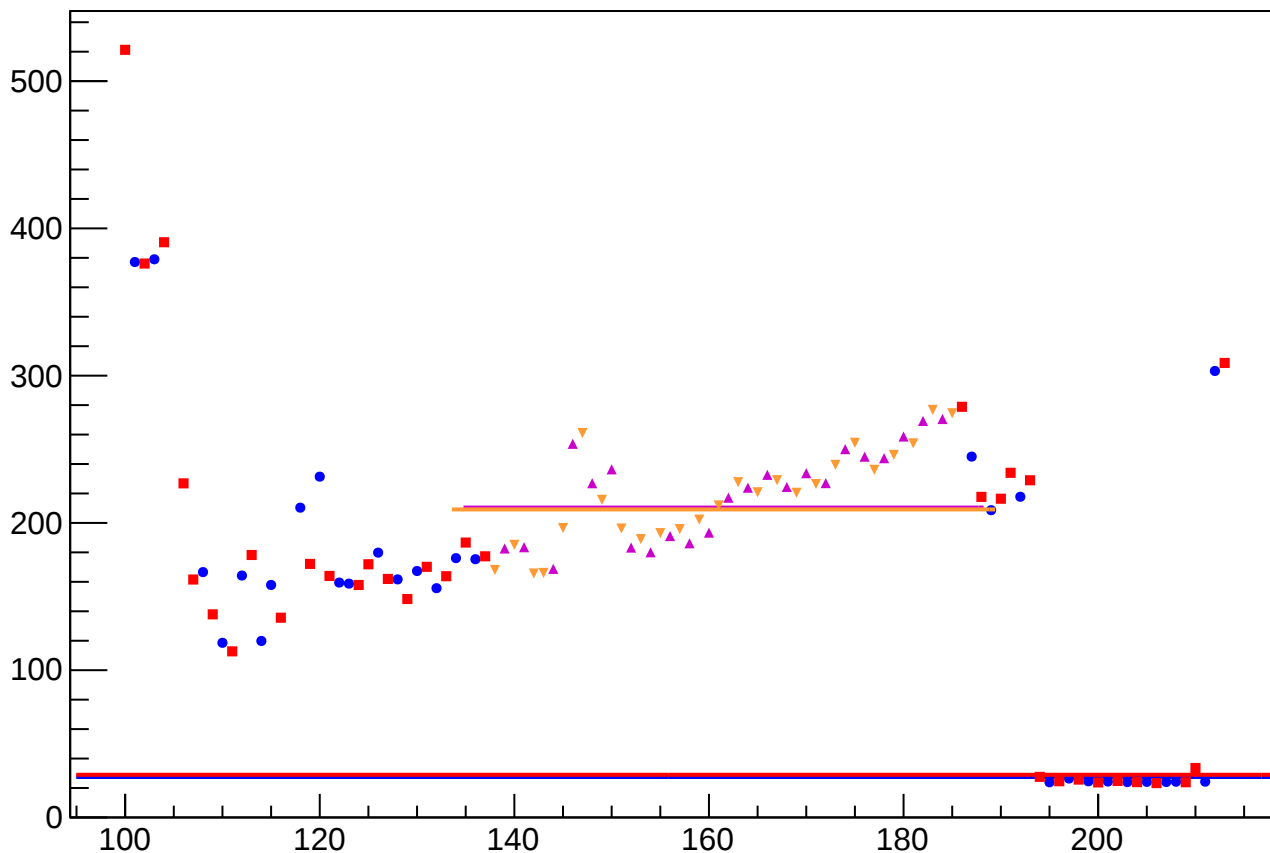
All: 180.995 $\pm$ 0.016 χ^2 /NDF: 15615694.0/11

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10582.071 $\pm$ 0.009	χ^2/NDF : 6047576716921.2/29	Left: 151423.440 $\pm$ 0.036	χ^2/NDF : 2913216467.1/4
Left Out: 151480.339 $\pm$ 0.049	χ^2/NDF : 1483692735.3/24	Right: -9754.758 $\pm$ 0.007	χ^2/NDF : 1341183494579
Right Out: -8765.648 $\pm$ 0.010	χ^2/NDF : 7346482330308.8/33	In: -5527.156 $\pm$ 0.009	χ^2/NDF : 15732328747394.6
Left In: 151362.440 $\pm$ 0.051	χ^2/NDF : 1426782789.9/22	Out: -2410.497 $\pm$ 0.010	χ^2/NDF : 17423840330837
		All: -4100.863 $\pm$ 0.007	χ^2/NDF : 3321044588

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.493+/-0.007 χ^2/NDF : 12636230.6/29

Left Out: 209.156+/-0.035 χ^2/NDF : 710094.9/24

Right Out: 28.978+/-0.007 χ^2/NDF : 14742787.7/33

Left In: 210.431+/-0.036 χ^2/NDF : 684015.0/22

Left: 209.771+/-0.025 χ^2/NDF : 1394750.9/47

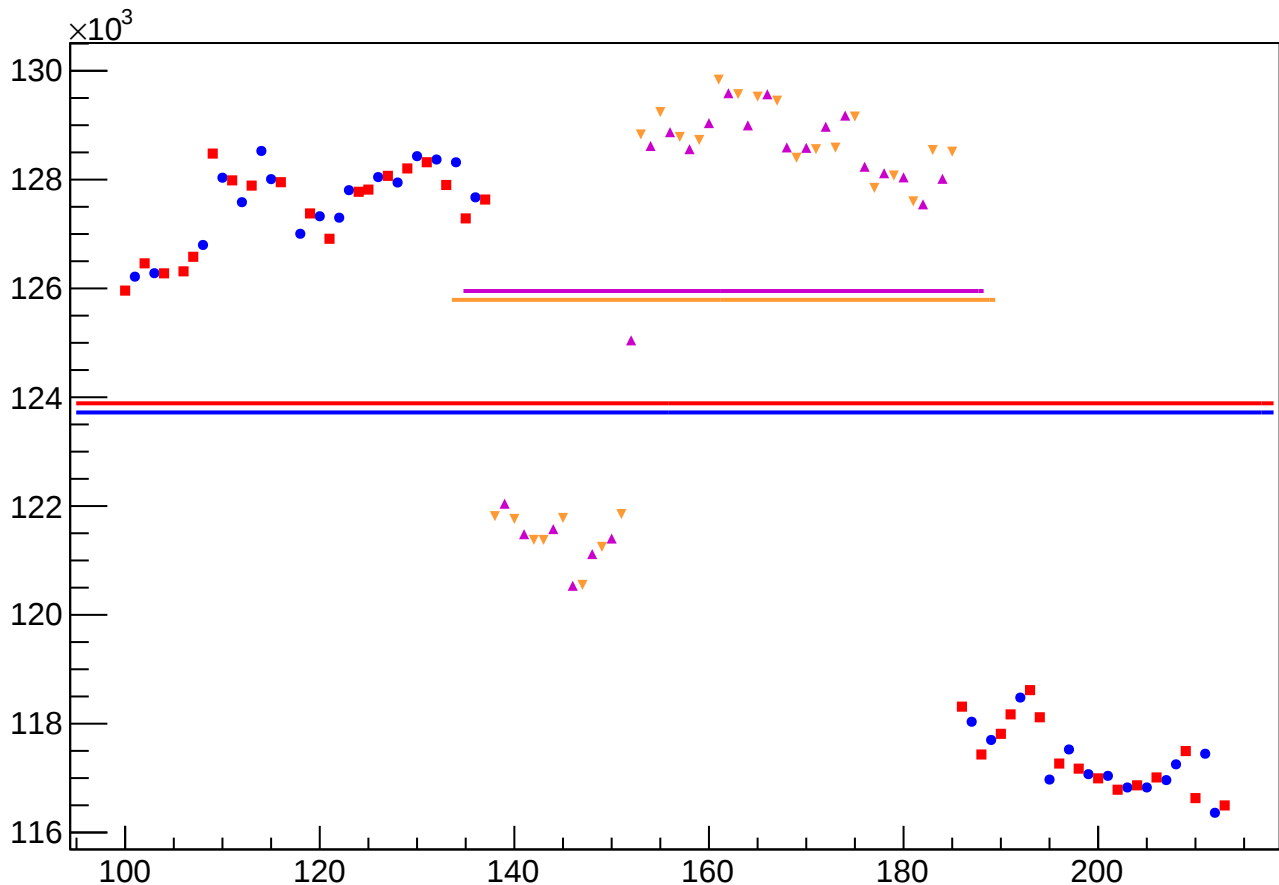
Right: 28.169+/-0.005 χ^2/NDF : 27402753.6/63

In: 33.204+/-0.006 χ^2/NDF : 38033285.2/52

Out: 36.123+/-0.007 χ^2/NDF : 40929525.8/58

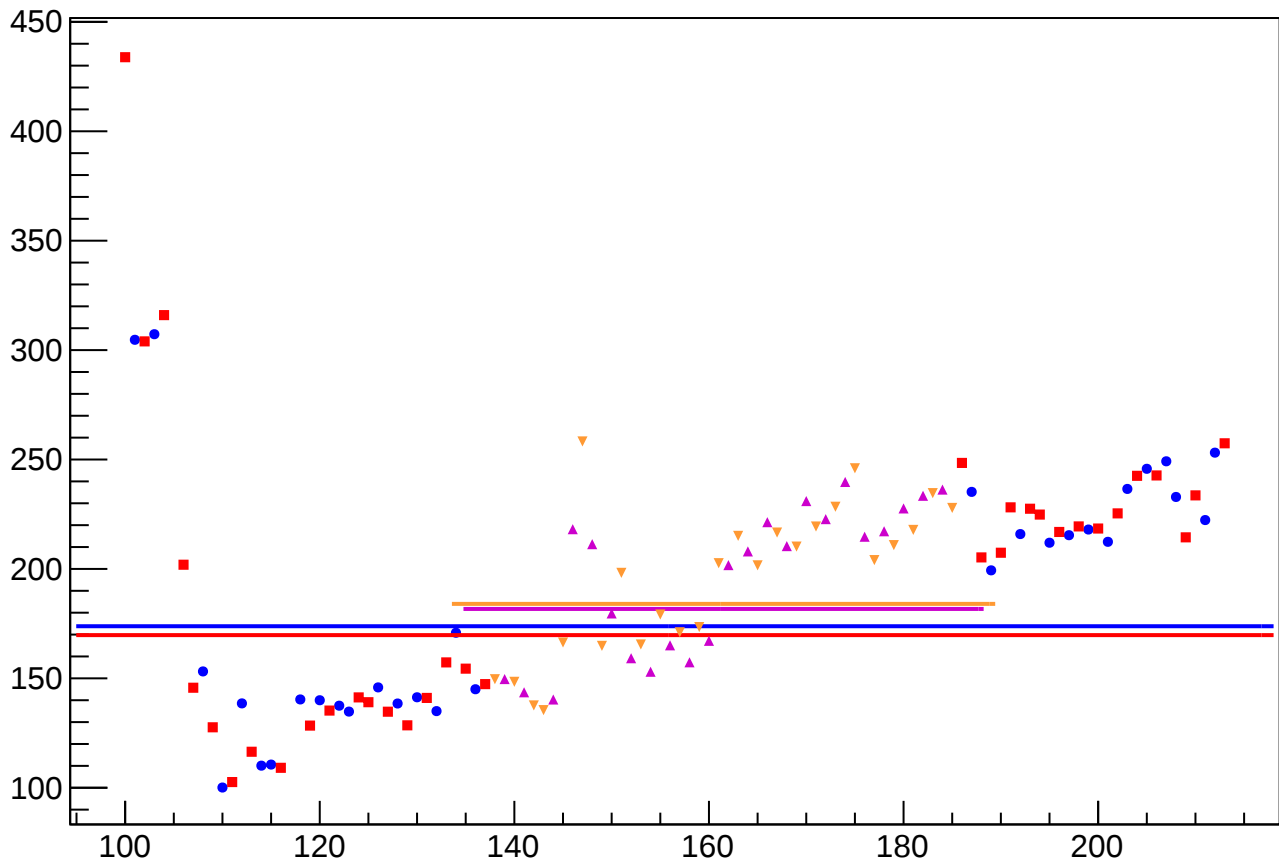
All: 34.540+/-0.005 χ^2/NDF : 79058073.0/111

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123720.288 $\pm$ 0.046	χ^2 /NDF: 12402050965.5/29	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/24
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 123809.360 $\pm$ 0.031	χ^2 /NDF: 25952323753.5/24
Right Out: 123888.514 $\pm$ 0.043	χ^2 /NDF: 13543167095.1/33	In: 124867.374 $\pm$ 0.032	χ^2 /NDF: 19458061408.1/33
Left In: 125952.447 $\pm$ 0.045	χ^2 /NDF: 5841800367.5/22	Out: 124824.674 $\pm$ 0.031	χ^2 /NDF: 21237459515.6/22
		All: 124845.228 $\pm$ 0.022	χ^2 /NDF: 406964434/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 173.814+/-0.032 χ^2/NDF : 2447946.5/29

Left Out: 184.029+/-0.031 χ^2/NDF :1126592.5/24

Right Out: 169.752+/-0.031 χ^2/NDF : 2985073.5/33

Left In: 181.714+/-0.032 χ^2/NDF :1116142.0/22

Left: 182.890+/-0.022 χ^2/NDF : 2245464.4/47

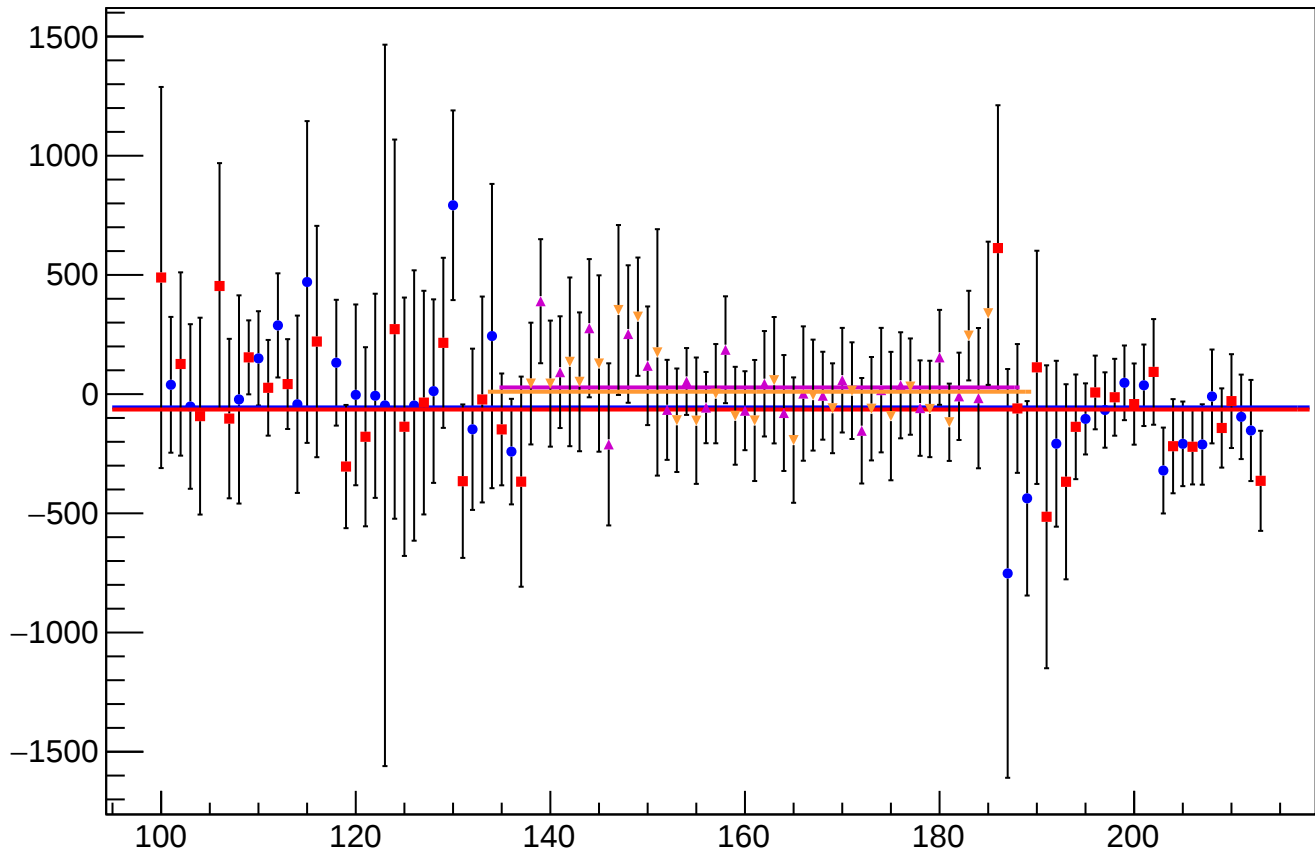
Right: 171.663+/-0.022 χ^2/NDF : 5441305.2/63

In: 177.874+/-0.023 χ^2/NDF :3594507.1/52

Out: 176.781+/-0.022 χ^2/NDF :4218766.6/58

All: 177.307+/-0.016 χ^2/NDF : 7814482.6/111

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -55.736 ± 44.274 $\chi^2/\text{NDF}: 17.0/29$

Left Out: 10.078 ± 47.488 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -64.601 ± 43.075 $\chi^2/\text{NDF}: 15.1/33$

Left In: 28.050 ± 44.573 $\chi^2/\text{NDF}: 7.0/22$

Left: 19.632 ± 32.499 $\chi^2/\text{NDF}: 15.5/47$

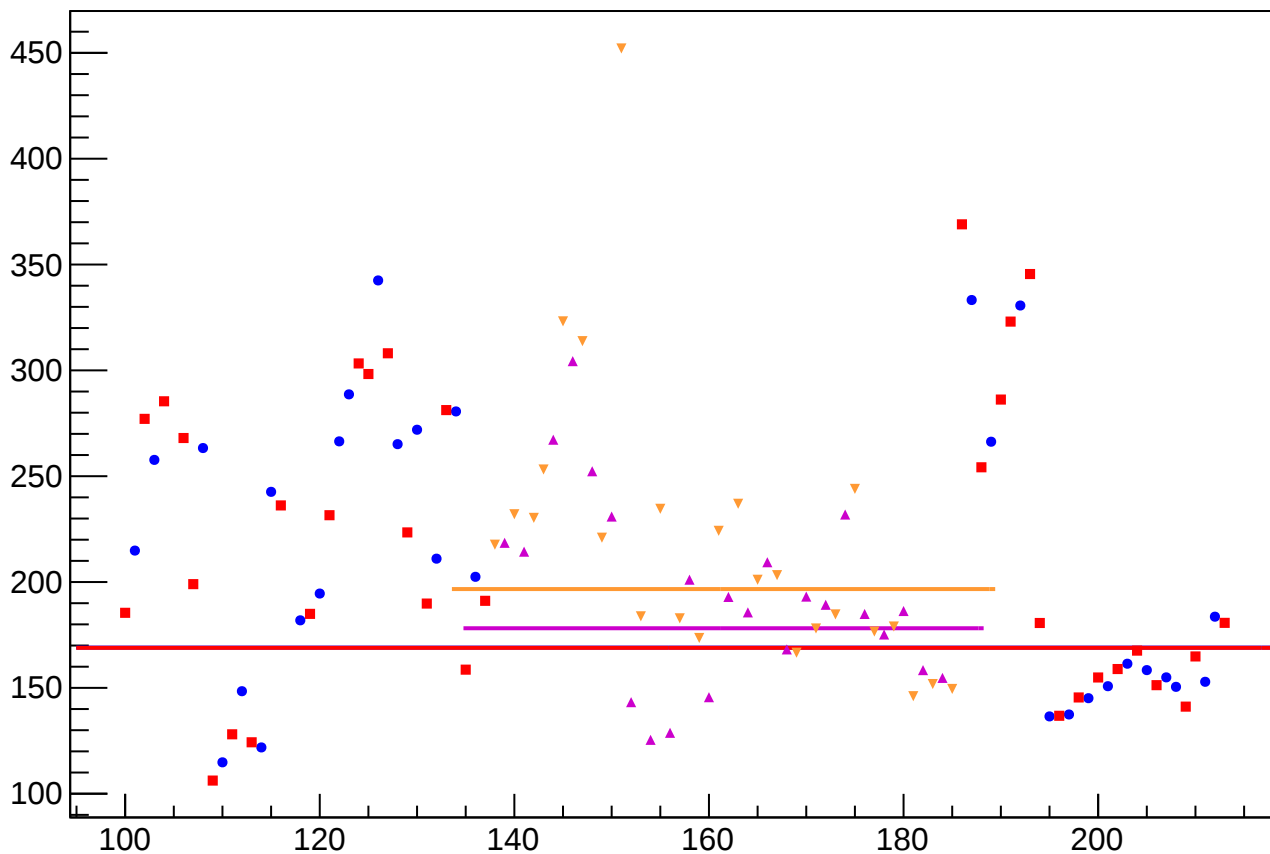
Right: -60.290 ± 30.874 $\chi^2/\text{NDF}: 32.2/63$

In: -14.124 ± 31.412 $\chi^2/\text{NDF}: 25.8/52$

Out: -30.892 ± 31.905 $\chi^2/\text{NDF}: 24.9/58$

All: -22.377 ± 22.384 $\chi^2/\text{NDF}: 50.9/111$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 169.026 ± 0.031 $\chi^2/\text{NDF}: 2145730.1/29$

Left Out: 196.682 ± 0.034 $\chi^2/\text{NDF}: 1782715.7/24$

Right Out: 168.923 ± 0.030 $\chi^2/\text{NDF}: 2846104.4/33$

Left In: 178.166 ± 0.032 $\chi^2/\text{NDF}: 1618967.9/22$

Left: 186.838 ± 0.023 $\chi^2/\text{NDF}: 3563331.3/47$

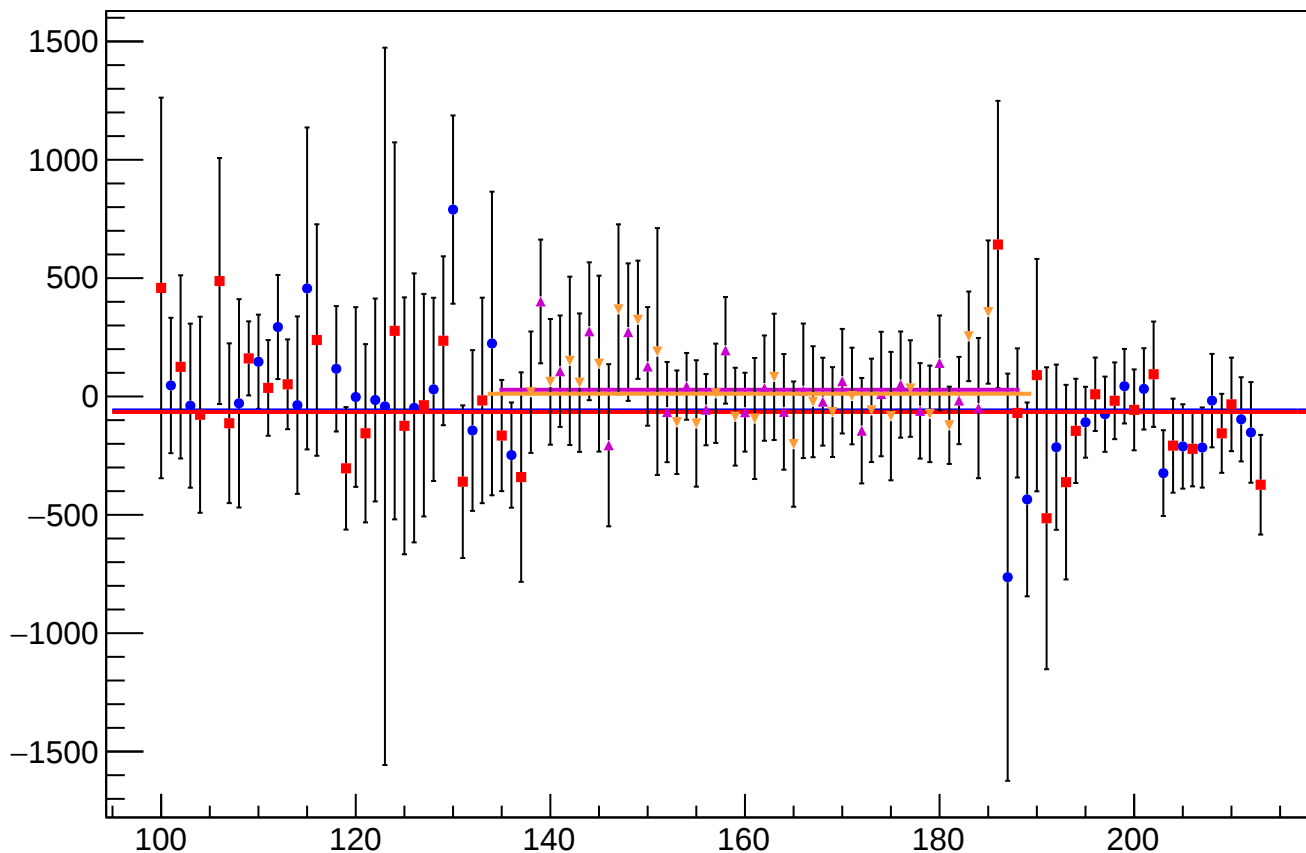
Right: 168.973 ± 0.022 $\chi^2/\text{NDF}: 4991840.0/63$

In: 173.565 ± 0.022 $\chi^2/\text{NDF}: 3807027.9/52$

Out: 181.453 ± 0.023 $\chi^2/\text{NDF}: 5003712.5/58$

All: 177.448 ± 0.016 $\chi^2/\text{NDF}: 8872819.3/111$

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -58.880 ± 44.476 χ^2/NDF : 16.9/29

Left Out: 11.479 ± 47.819 χ^2/NDF : 8.8/24

Right Out: -65.342 ± 43.285 χ^2/NDF : 15.5/33

Left In: 28.280 ± 44.863 χ^2/NDF : 7.1/22

Left: 20.415 ± 32.718 χ^2/NDF : 16.0/47

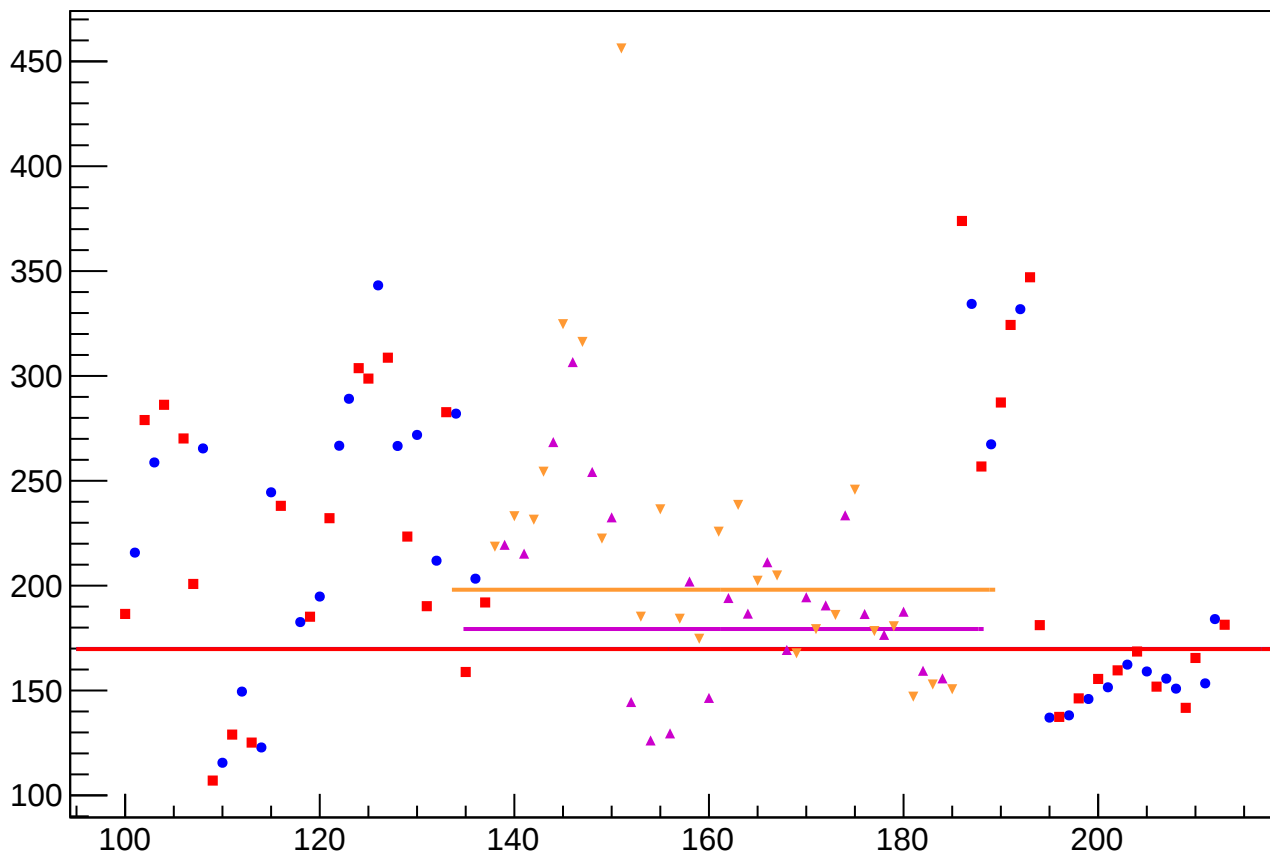
Right: -62.199 ± 31.019 χ^2/NDF : 32.5/63

In: -15.678 ± 31.585 χ^2/NDF : 25.9/52

Out: -30.746 ± 32.091 χ^2/NDF : 25.8/58

All: -23.092 ± 22.511 χ^2/NDF : 51.8/111

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 169.816 $\pm$ 0.031 χ^2 /NDF: 2137285.1/29

Left Out: 198.059 $\pm$ 0.034 χ^2 /NDF: 1778526.5/24

Right Out: 169.754 $\pm$ 0.031 χ^2 /NDF: 2841927.4/33

Left In: 179.324 $\pm$ 0.032 χ^2 /NDF: 1618266.2/22

Left: 188.094 $\pm$ 0.023 χ^2 /NDF: 3560073.1/47

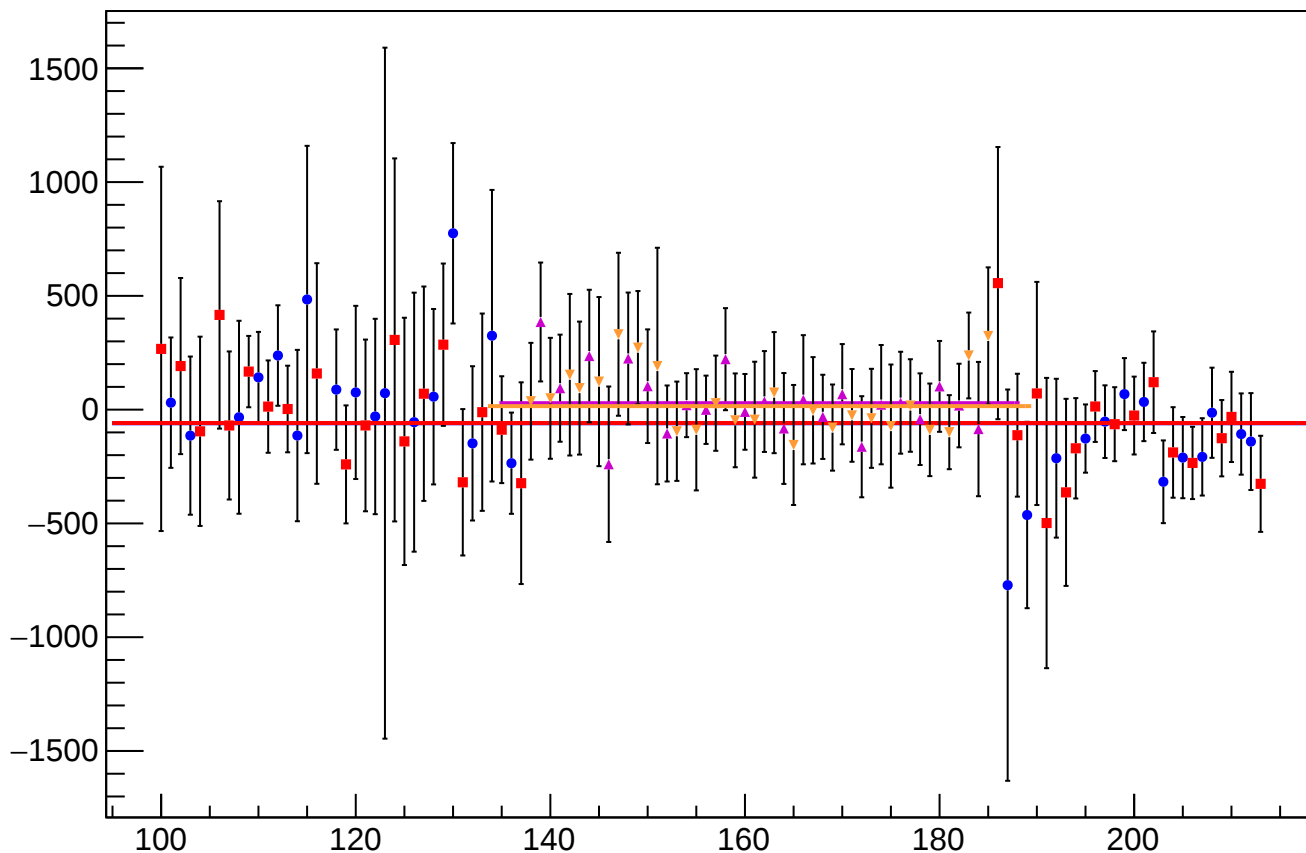
Right: 169.784 $\pm$ 0.022 χ^2 /NDF: 4979214.6/63

In: 174.529 $\pm$ 0.022 χ^2 /NDF: 3800850.6/52

Out: 182.501 $\pm$ 0.023 χ^2 /NDF: 5005619.2/58

All: 178.452 $\pm$ 0.016 χ^2 /NDF: 8869161.9/111

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -59.870 ± 44.562 $\chi^2/\text{NDF}: 16.4/29$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -58.799 ± 43.315 $\chi^2/\text{NDF}: 13.5/33$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

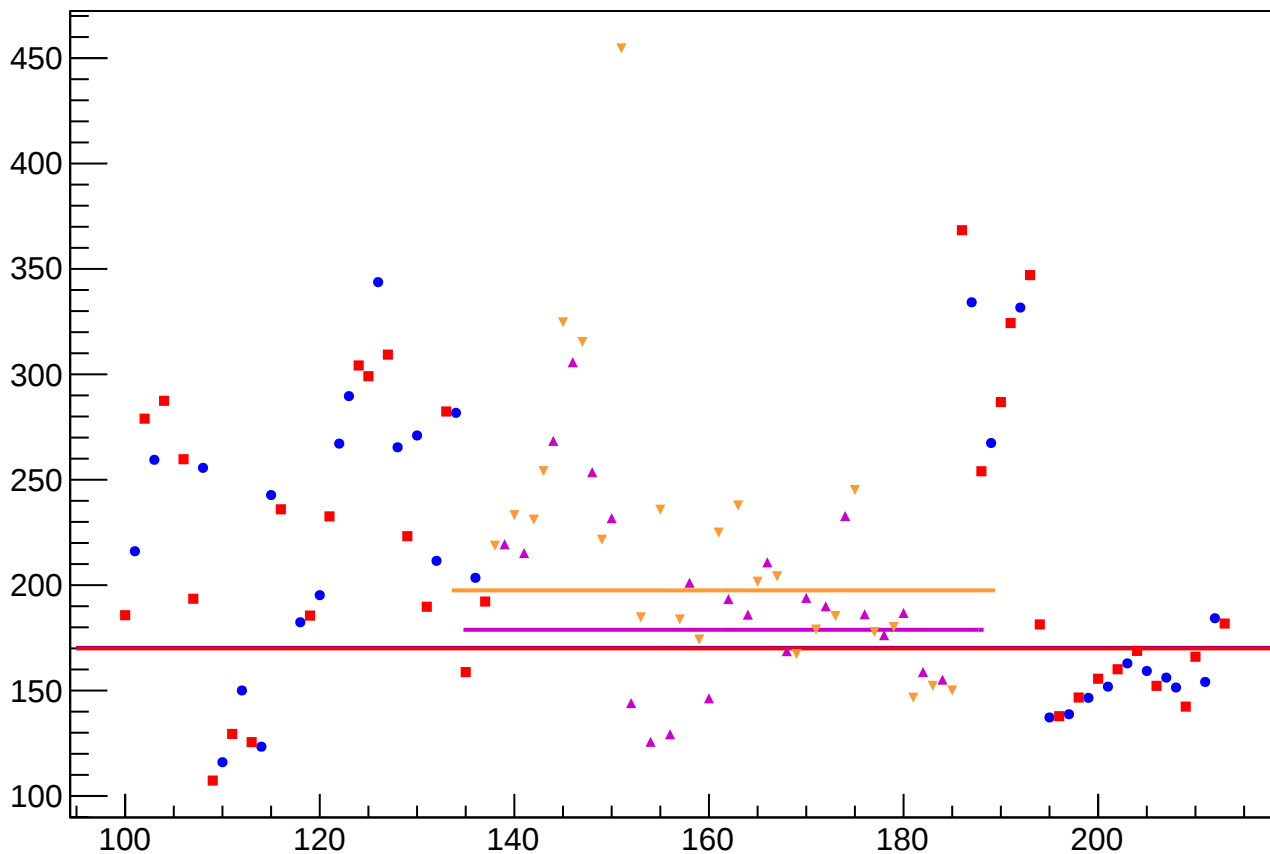
Right: -59.319 ± 31.060 $\chi^2/\text{NDF}: 29.9/63$

In: -15.976 ± 31.574 $\chi^2/\text{NDF}: 24.7/52$

Out: -25.245 ± 32.065 $\chi^2/\text{NDF}: 21.8/58$

All: -20.539 ± 22.498 $\chi^2/\text{NDF}: 46.6/111$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 170.240 $\pm$ 0.032 χ^2 /NDF: 2104530.6/29

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 170.001 $\pm$ 0.031 χ^2 /NDF: 2794372.0/33

Left In: 178.836 $\pm$ 0.032 χ^2 /NDF:1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2 /NDF: 3569877.1/47

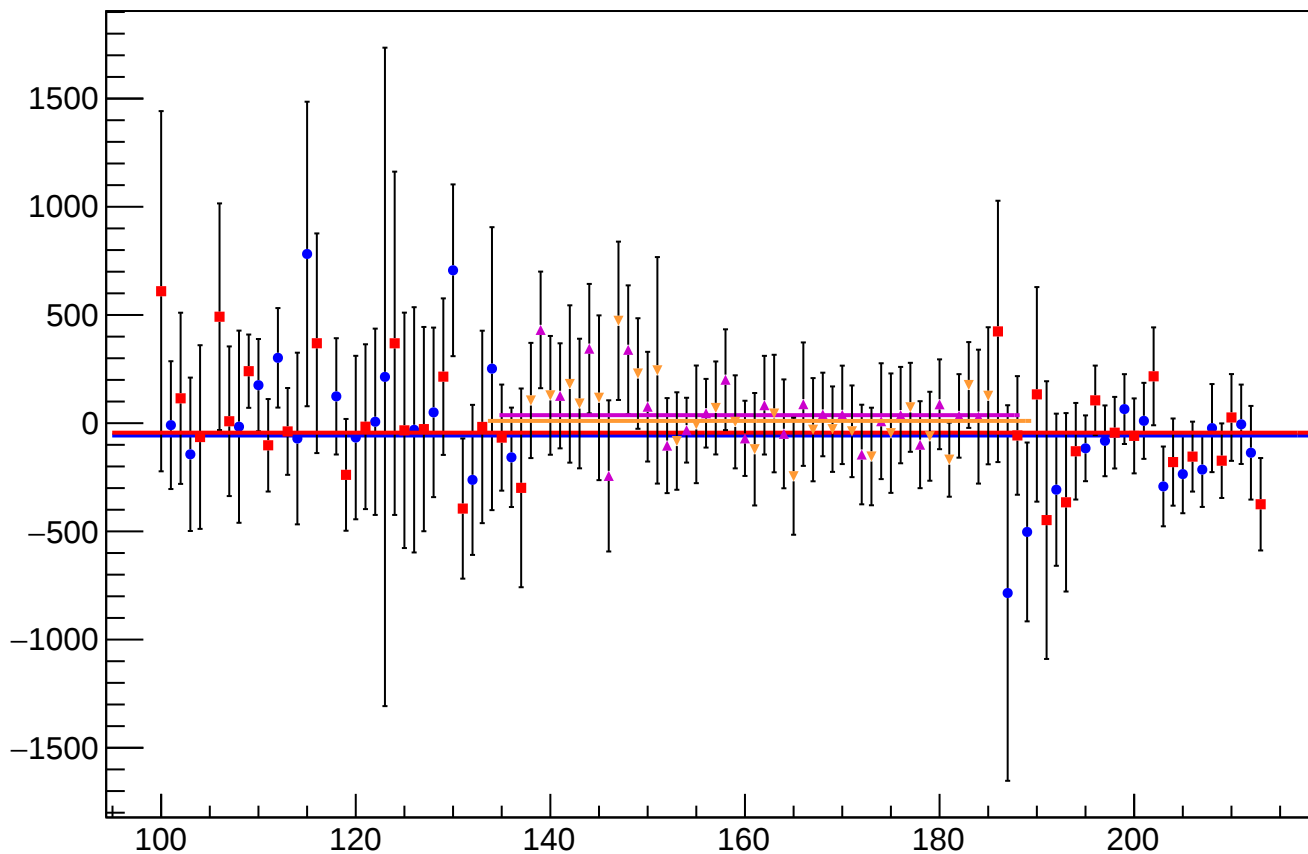
Right: 170.117 $\pm$ 0.022 χ^2 /NDF: 4898932.2/63

In: 174.520 $\pm$ 0.022 χ^2 /NDF:3763858.0/52

Out: 182.442 $\pm$ 0.023 χ^2 /NDF:4943676.9/58

All: 178.420 $\pm$ 0.016 χ^2 /NDF: 8769519.8/111

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -56.937 ± 45.565 $\chi^2/\text{NDF}: 17.1/29$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -43.876 ± 44.457 $\chi^2/\text{NDF}: 16.3/33$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

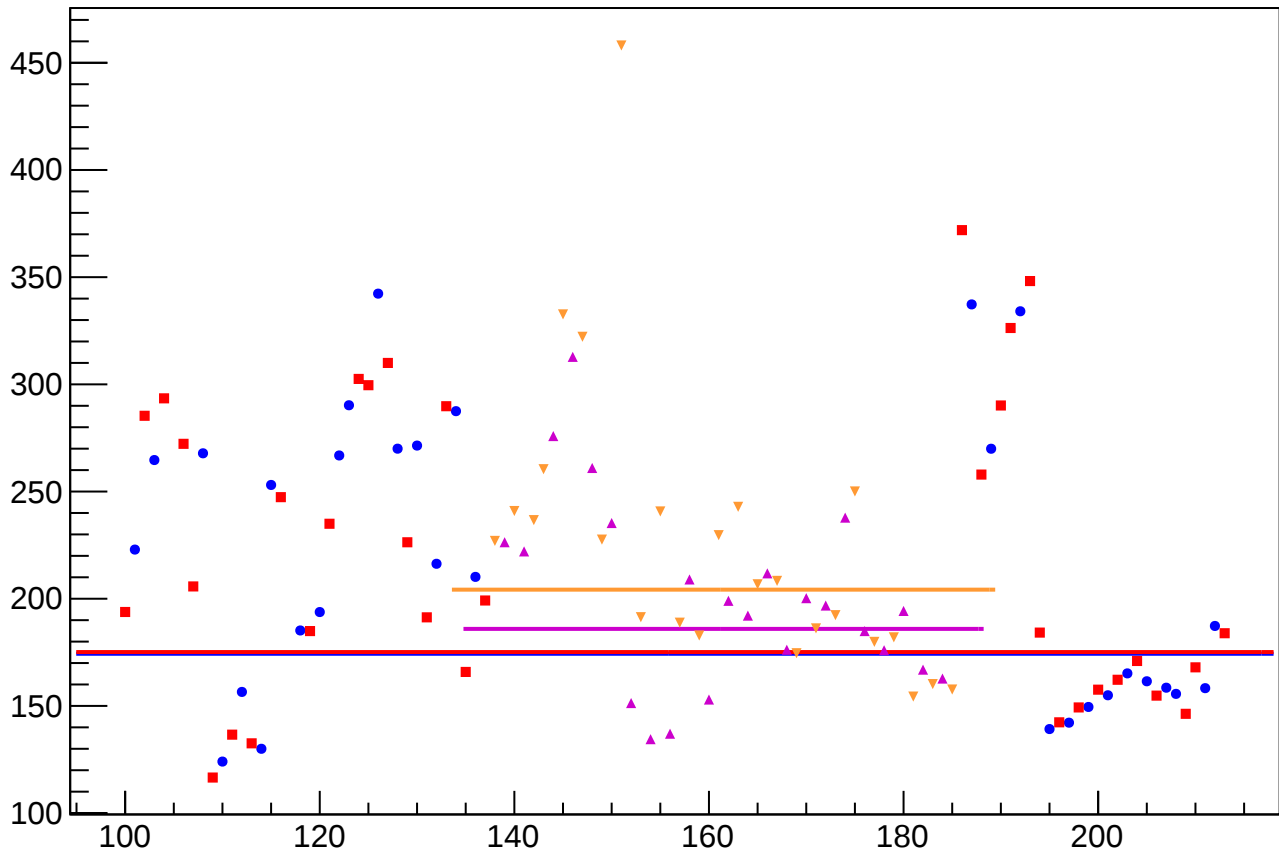
Right: -50.246 ± 31.821 $\chi^2/\text{NDF}: 33.5/63$

In: -10.778 ± 32.496 $\chi^2/\text{NDF}: 27.1/52$

Out: -19.417 ± 32.985 $\chi^2/\text{NDF}: 24.5/58$

All: -15.033 ± 23.149 $\chi^2/\text{NDF}: 51.6/111$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 174.330 $\pm$ 0.032 χ^2/NDF : 2029109.8/29

Left Out: 204.236 $\pm$ 0.035 χ^2/NDF : 1675666.0/24

Right Out: 175.125 $\pm$ 0.031 χ^2/NDF : 2612014.6/33

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

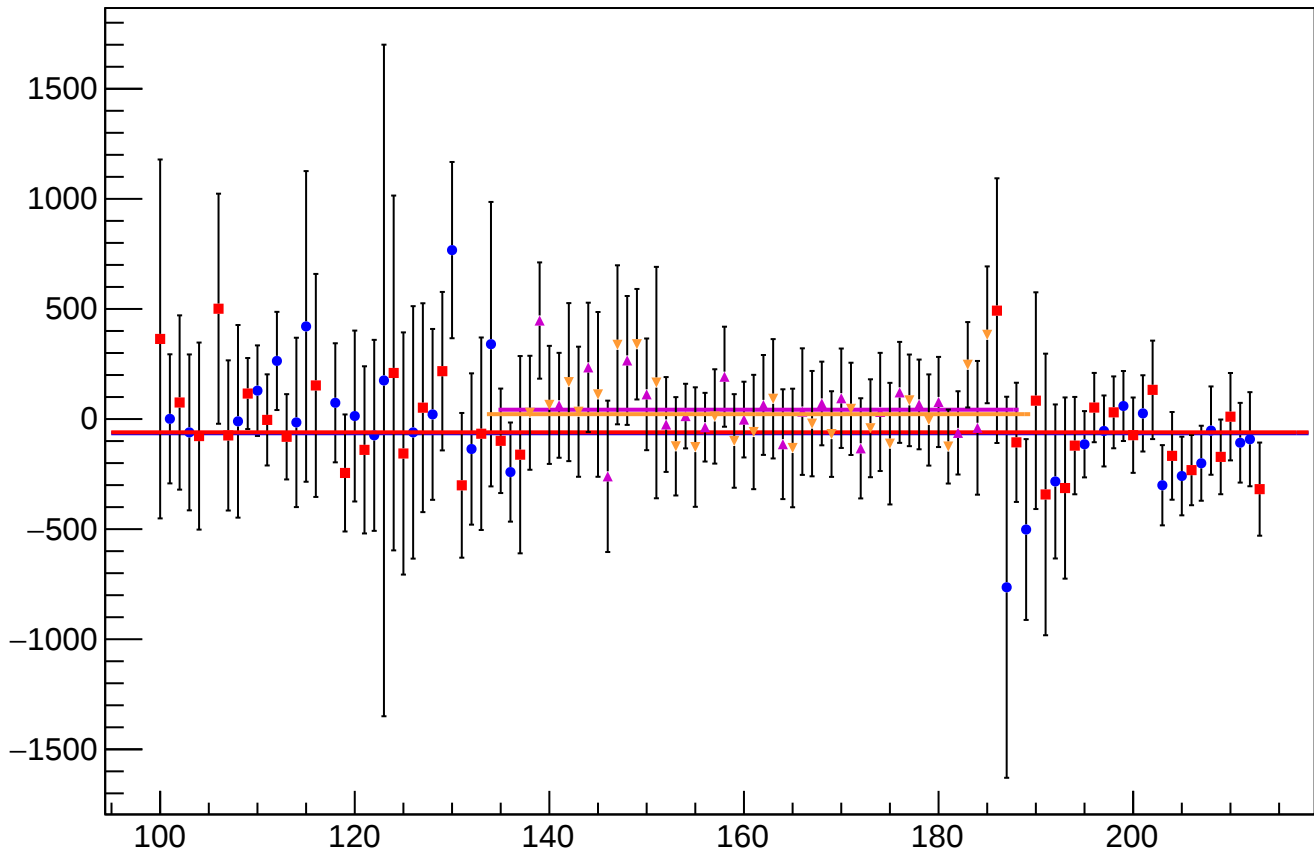
Right: 174.737 $\pm$ 0.023 χ^2/NDF : 4641436.7/63

In: 180.031 $\pm$ 0.023 χ^2/NDF : 3552887.8/52

Out: 188.211 $\pm$ 0.023 χ^2/NDF : 4673163.4/58

All: 184.060 $\pm$ 0.016 χ^2/NDF : 8288477.7/111

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -64.550 ± 44.986 $\chi^2/\text{NDF}: 16.1/29$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -60.298 ± 43.775 $\chi^2/\text{NDF}: 11.6/33$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

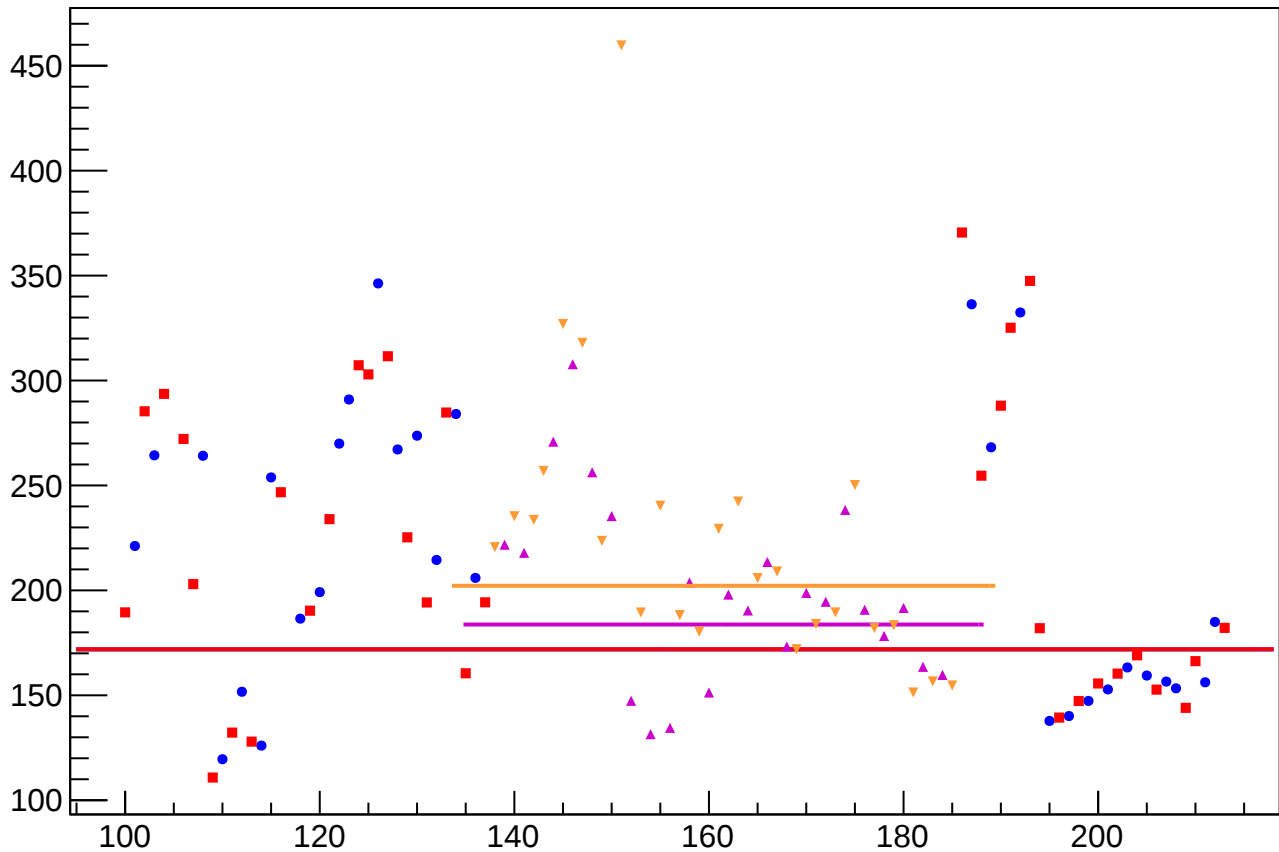
Right: -62.366 ± 31.373 $\chi^2/\text{NDF}: 27.7/63$

In: -12.083 ± 32.114 $\chi^2/\text{NDF}: 25.6/52$

Out: -23.467 ± 32.567 $\chi^2/\text{NDF}: 21.6/58$

All: -17.695 ± 22.867 $\chi^2/\text{NDF}: 47.2/111$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 171.871 $\pm$ 0.032 χ^2/NDF : 2111155.0/29

Left Out: 202.186 $\pm$ 0.034 χ^2/NDF :1696571.9/24

Right Out: 171.940 $\pm$ 0.031 χ^2/NDF : 2773057.3/33

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

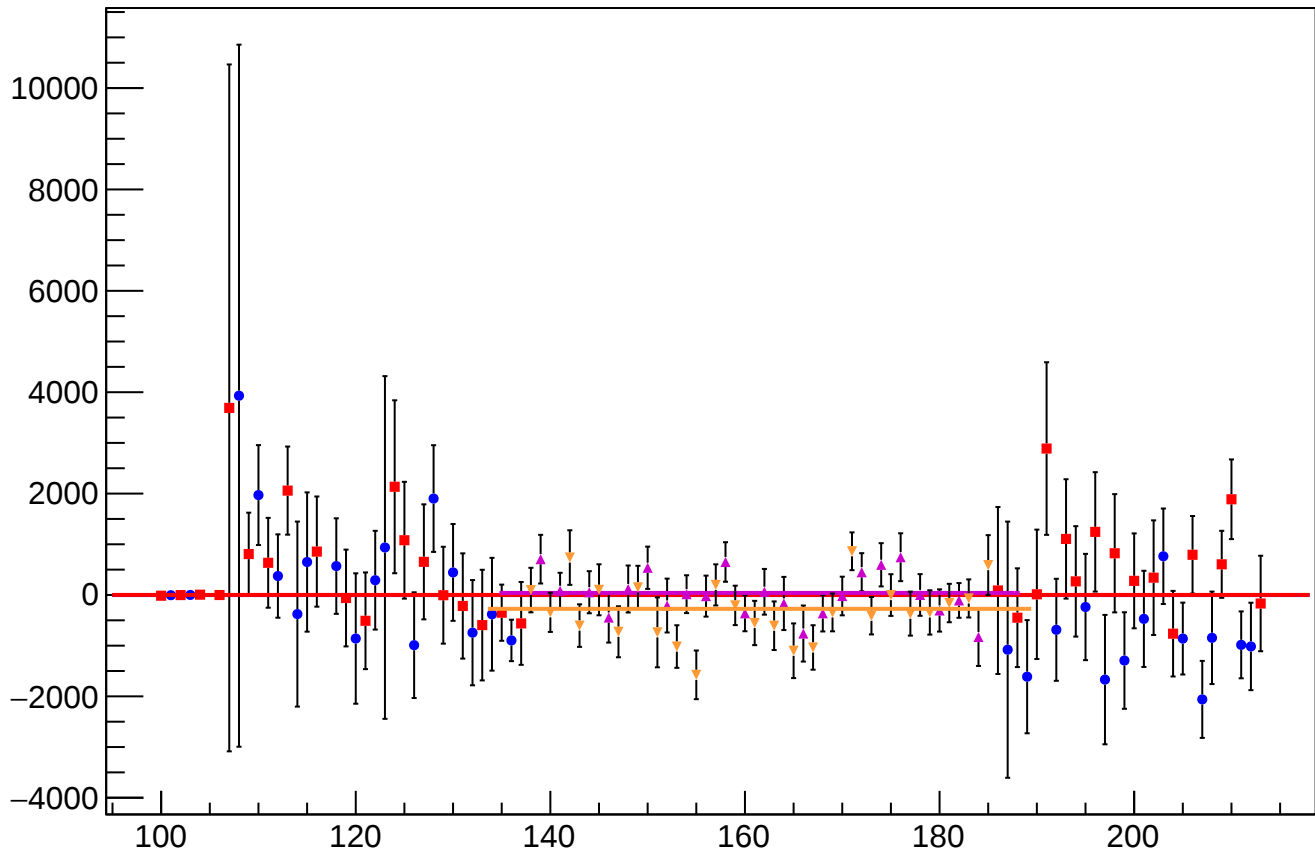
Right: 171.907 $\pm$ 0.022 χ^2/NDF : 4884214.7/63

In: 177.688 $\pm$ 0.023 χ^2/NDF :3675262.3/52

Out: 185.445 $\pm$ 0.023 χ^2/NDF :4895962.8/58

All: 181.512 $\pm$ 0.016 χ^2/NDF : 8628755.7/111

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.601 ± 2.251 χ^2/NDF : 37.4/29

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.767 ± 2.111 χ^2/NDF : 32.6/33

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

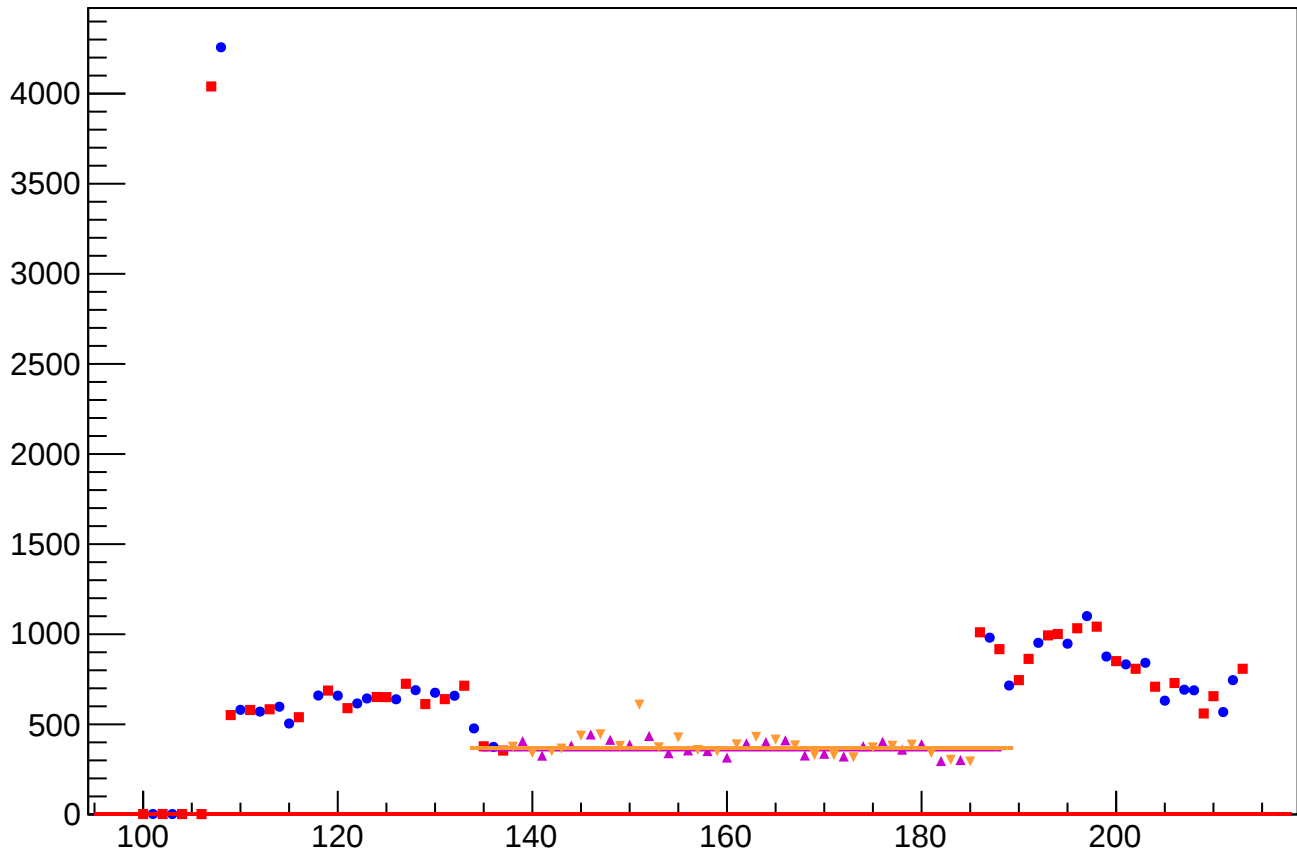
Right: -0.341 ± 1.540 χ^2/NDF : 70.6/63

In: -1.574 ± 2.251 χ^2/NDF : 57.8/52

Out: 0.605 ± 2.110 χ^2/NDF : 80.9/58

All: -0.414 ± 1.539 χ^2/NDF : 139.2/111

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.515+/-0.002 χ^2/NDF : 28788699.9/29

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.491+/-0.001 χ^2/NDF : 31152180.9/33

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

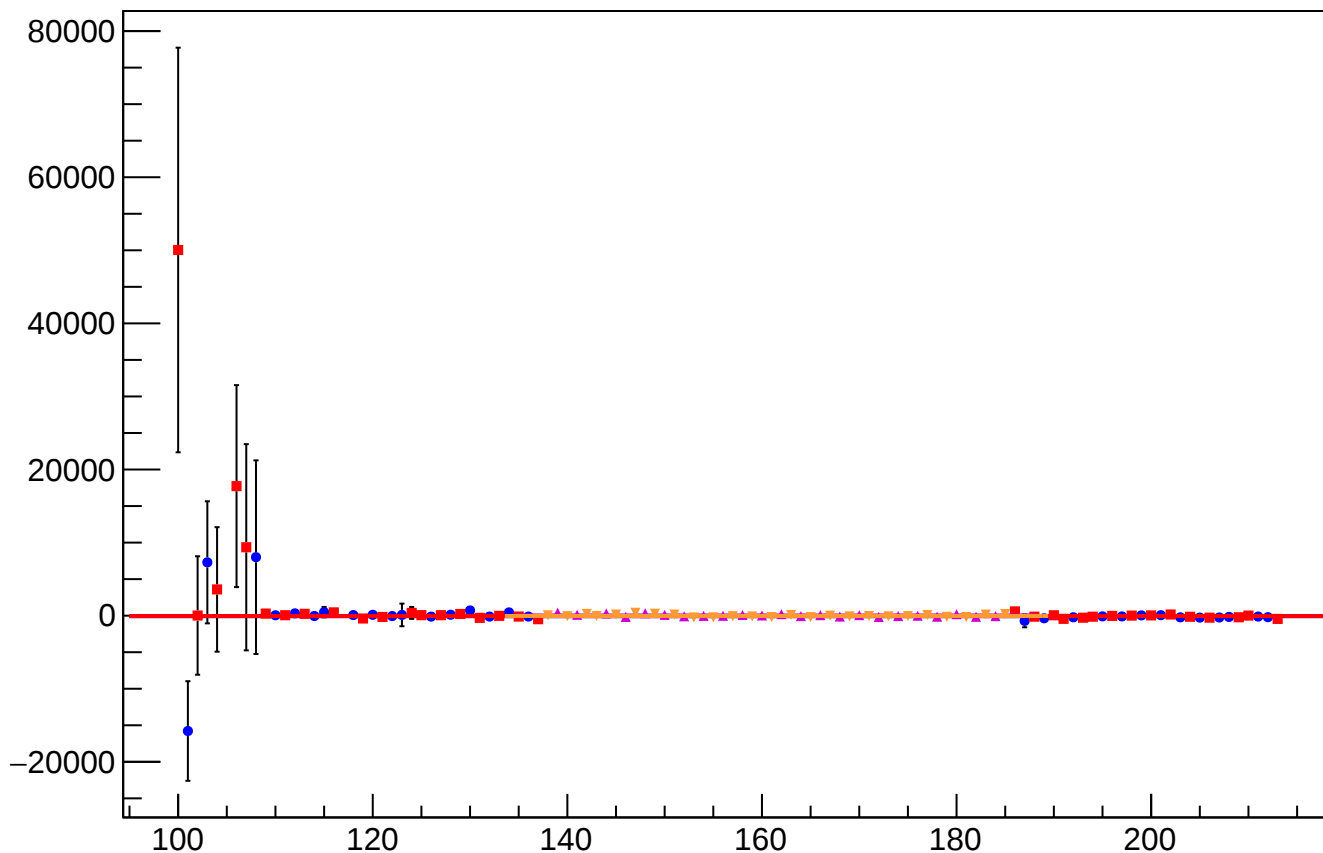
Right: 2.502+/-0.001 χ^2/NDF : 59940998.6/63

In: 2.752+/-0.002 χ^2/NDF : 62701700.0/52

Out: 2.707+/-0.001 χ^2/NDF : 67258554.6/58

All: 2.728+/-0.001 χ^2/NDF : 129960674.7/111

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -67.634 $\pm$ 49.048 χ^2 /NDF: 20.9/29

Left Out: -39.036 $\pm$ 49.576 χ^2 /NDF: 9.1/24

Right Out: -55.918 $\pm$ 48.427 χ^2 /NDF: 24.2/33

Left In: 28.062 $\pm$ 48.032 χ^2 /NDF: 9.6/22

Left: -4.426 $\pm$ 34.497 χ^2 /NDF: 19.7/47

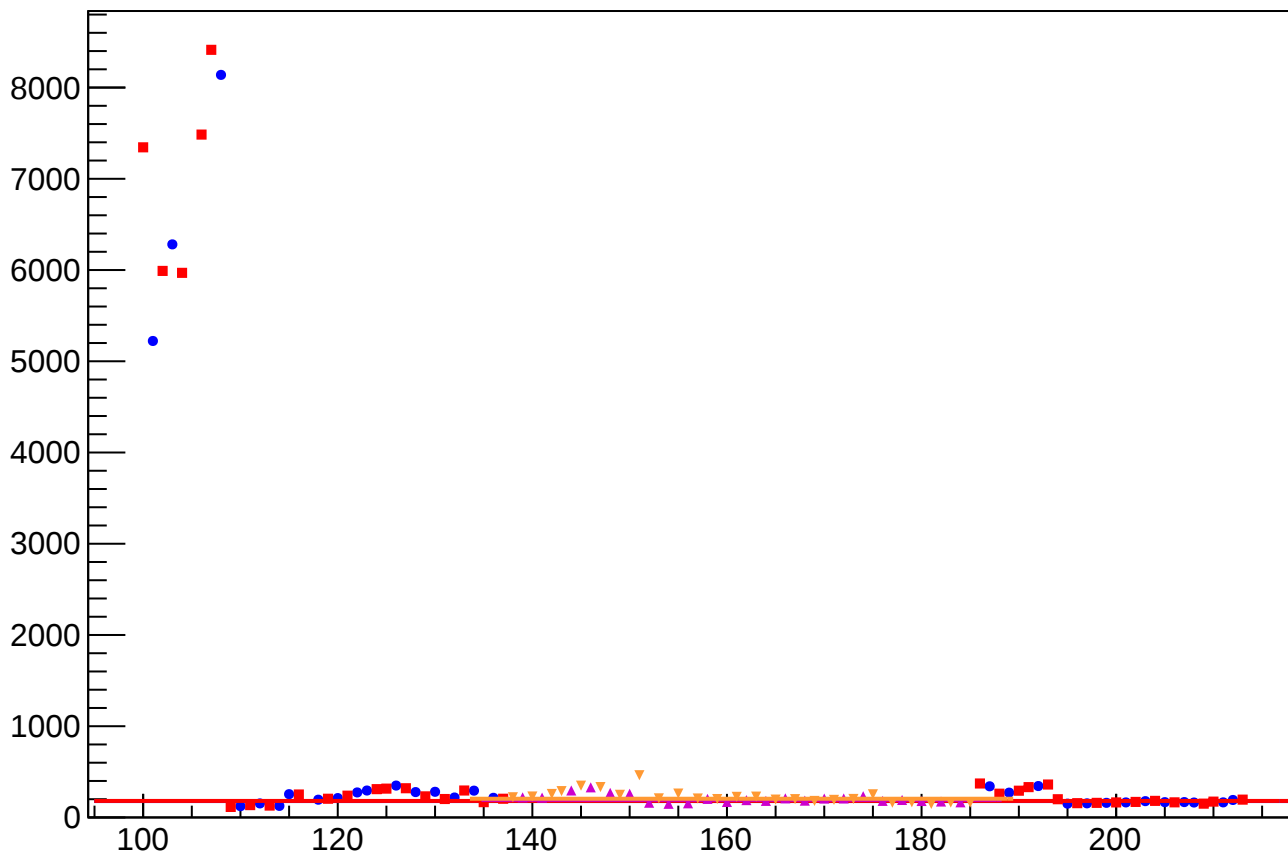
Right: -61.701 $\pm$ 34.461 χ^2 /NDF: 45.2/63

In: -18.785 $\pm$ 34.317 χ^2 /NDF: 32.4/52

Out: -47.674 $\pm$ 34.642 χ^2 /NDF: 33.4/58

All: -33.094 $\pm$ 24.380 χ^2 /NDF: 66.2/111

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 179.737 $\pm$ 0.035 χ^2 /NDF: 4535186.8/29

Left Out: 205.114 $\pm$ 0.035 χ^2 /NDF:1957484.4/24

Right Out: 181.074 $\pm$ 0.034 χ^2 /NDF: 5425453.7/33

Left In: 193.616 $\pm$ 0.034 χ^2 /NDF:1179471.1/22

Left: 199.183 $\pm$ 0.024 χ^2 /NDF: 3192443.5/47

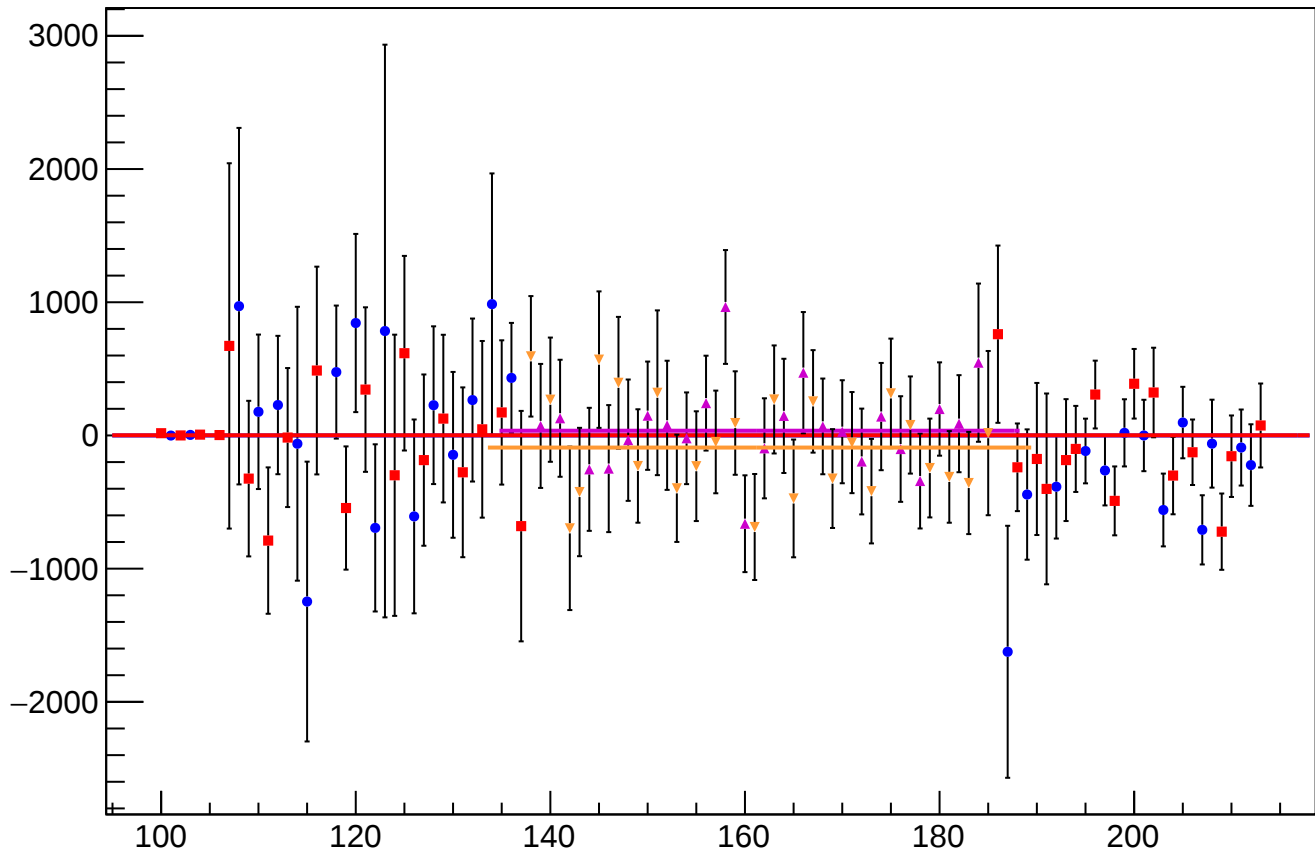
Right: 180.414 $\pm$ 0.024 χ^2 /NDF: 9961393.5/63

In: 186.822 $\pm$ 0.024 χ^2 /NDF:5796410.1/52

Out: 192.812 $\pm$ 0.024 χ^2 /NDF:7623584.3/58

All: 189.789 $\pm$ 0.017 χ^2 /NDF: 13450179.1/11

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.238 $\pm$ 1.736 χ^2/NDF : 28.5/29

Left Out: -90.945 $\pm$ 84.079 χ^2/NDF :16.4/24

Right Out: 1.288 $\pm$ 1.622 χ^2/NDF : 28.0/33

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

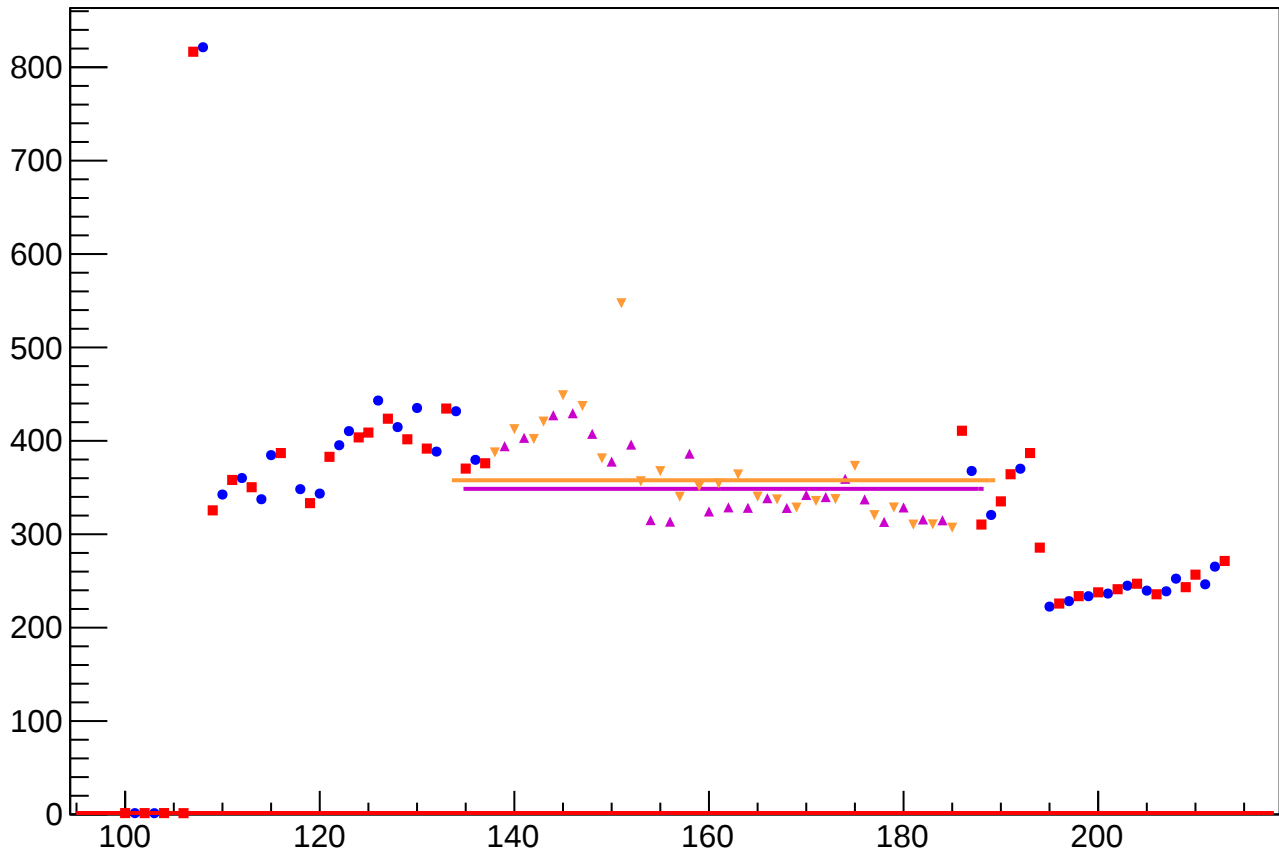
Right: 0.576 $\pm$ 1.185 χ^2/NDF : 56.9/63

In: -0.223 $\pm$ 1.736 χ^2/NDF :42.1/52

Out: 1.253 $\pm$ 1.622 χ^2/NDF :45.6/58

All: 0.565 $\pm$ 1.185 χ^2/NDF : 88.2/111

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.562 ± 0.001 $\chi^2/\text{NDF}: 29048244.0/29$

Left Out: 357.804 ± 0.059 $\chi^2/\text{NDF}: 547036.5/24$

Right Out: 1.550 ± 0.001 $\chi^2/\text{NDF}: 30859329.4/33$

Left In: 348.611 ± 0.060 $\chi^2/\text{NDF}: 362511.2/22$

Left: 353.224 ± 0.042 $\chi^2/\text{NDF}: 921460.0/47$

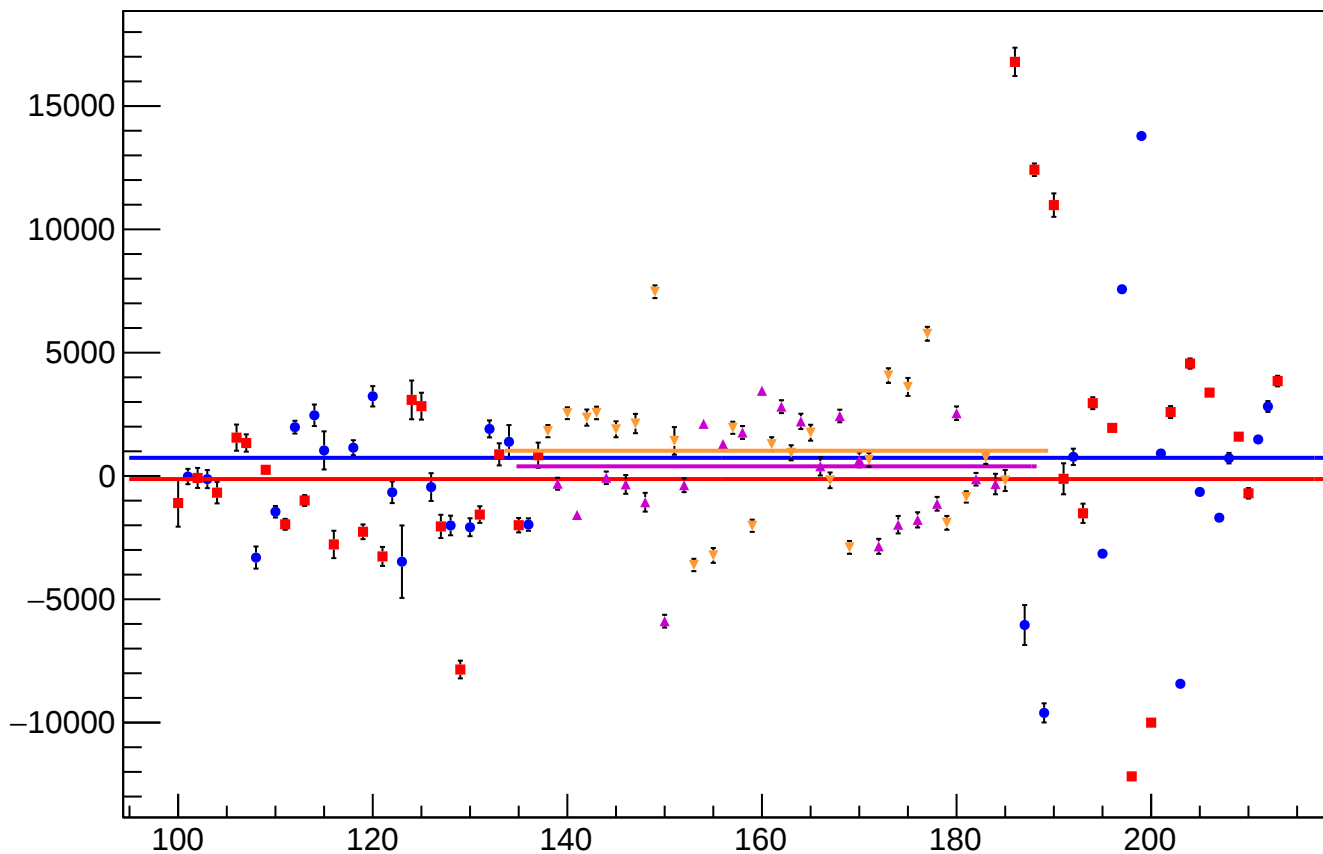
Right: 1.556 ± 0.001 $\chi^2/\text{NDF}: 59907618.6/63$

In: 1.708 ± 0.001 $\chi^2/\text{NDF}: 63227016.7/52$

Out: 1.683 ± 0.001 $\chi^2/\text{NDF}: 67299963.0/58$

All: 1.695 ± 0.001 $\chi^2/\text{NDF}: 130527211.5/111$

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 735.759+/-48.775 χ^2/NDF : 11123.1/29

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: -125.679+/-47.151 χ^2/NDF : 13688.6/33

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

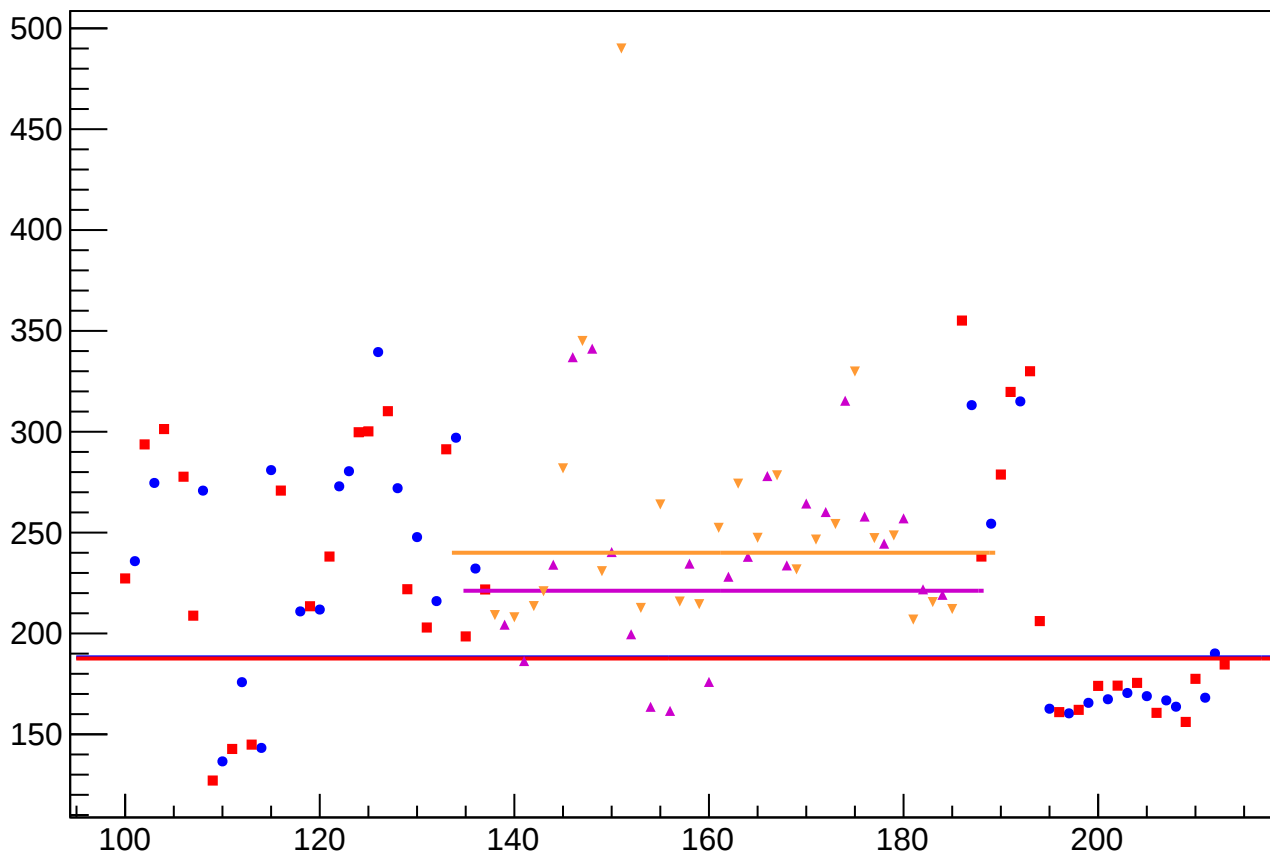
Right: 290.459+/-33.901 χ^2/NDF : 24972.9/63

In: 583.436+/-36.472 χ^2/NDF : 12730.1/52

Out: 337.906+/-36.419 χ^2/NDF : 16237.6/58

All: 460.490+/-25.771 χ^2/NDF : 28990.4/111

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 188.153 ± 0.034 χ^2/NDF : 1542576.2/29

Left Out: 240.019 ± 0.041 χ^2/NDF : 1002427.9/24

Right Out: 187.576 ± 0.033 χ^2/NDF : 2121792.7/33

Left In: 221.173 ± 0.039 χ^2/NDF : 1342517.8/22

Left: 230.192 ± 0.028 χ^2/NDF : 2457612.6/47

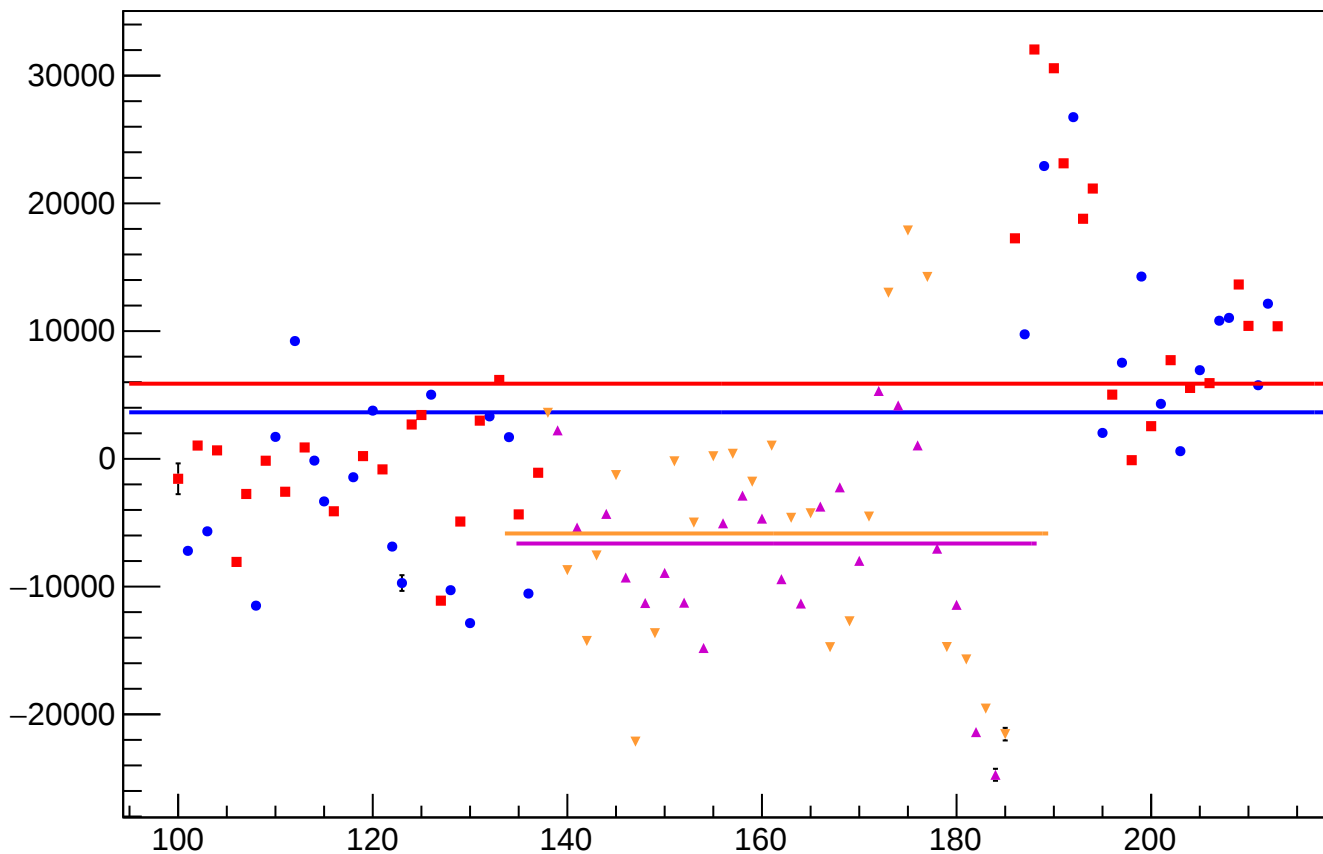
Right: 187.855 ± 0.024 χ^2/NDF : 3664513.4/63

In: 202.710 ± 0.026 χ^2/NDF : 3289173.1/52

Out: 208.733 ± 0.026 χ^2/NDF : 4122337.8/58

All: 205.726 ± 0.018 χ^2/NDF : 7438824.5/111

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3643.151+/-34.719

χ^2/NDF : 83631.4/29

Left Out: -5841.615+/-35.848

χ^2/NDF : 63397.3/24

Right Out: 5884.085+/-32.833

χ^2/NDF : 104575.2/33

Left In: -6628.388+/-37.160

χ^2/NDF : 21738.0/22

Left: -6220.862+/-25.800

χ^2/NDF : 85367.5/47

Right: 4826.123+/-23.855

χ^2/NDF : 190405.8/63

In: -1144.157+/-25.369

χ^2/NDF : 146163.5/52

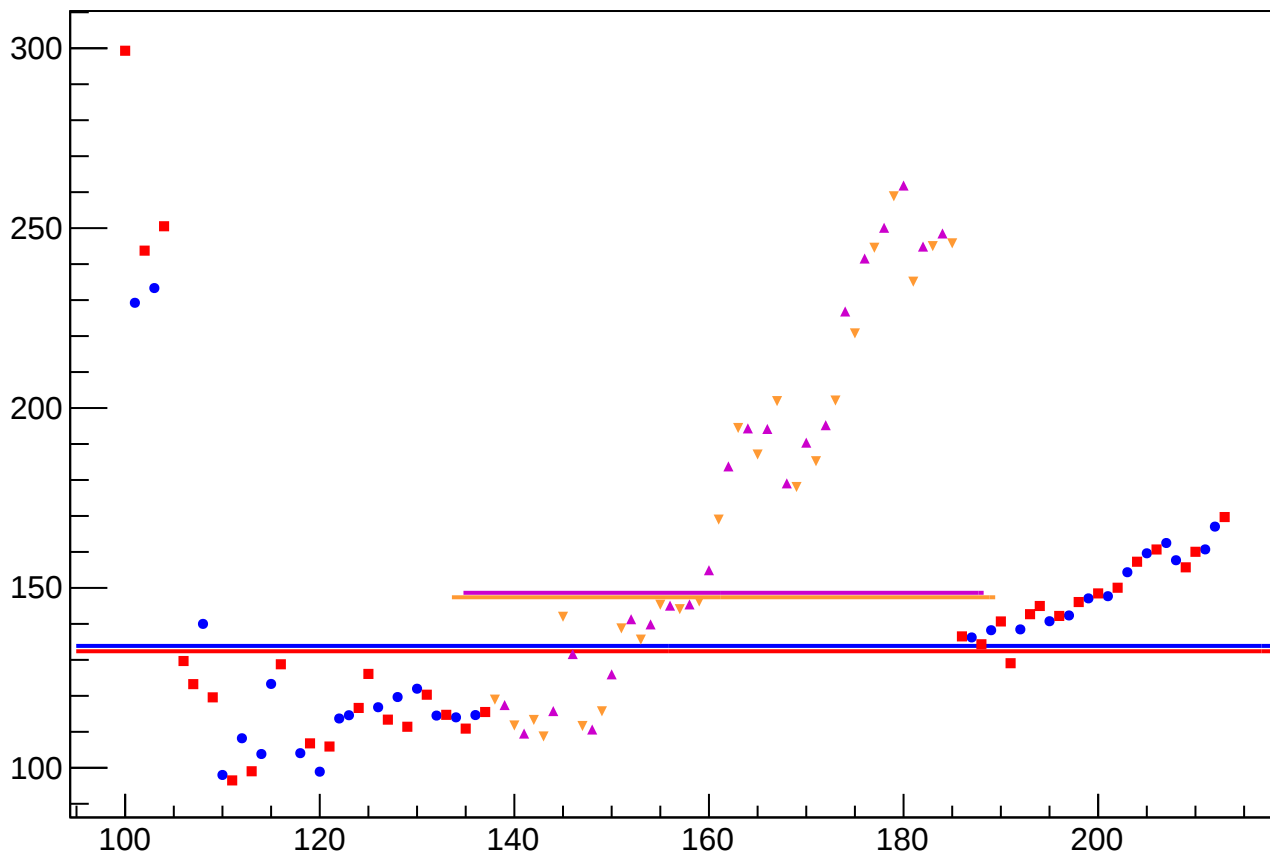
Out: 534.898+/-24.212

χ^2/NDF : 226156.1/58

All: -265.475+/-17.515

χ^2/NDF : 374611.9/11

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 133.883+/-0.025 χ^2/NDF : 1131053.8/29

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 132.394+/-0.023 χ^2/NDF : 1229837.0/33

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

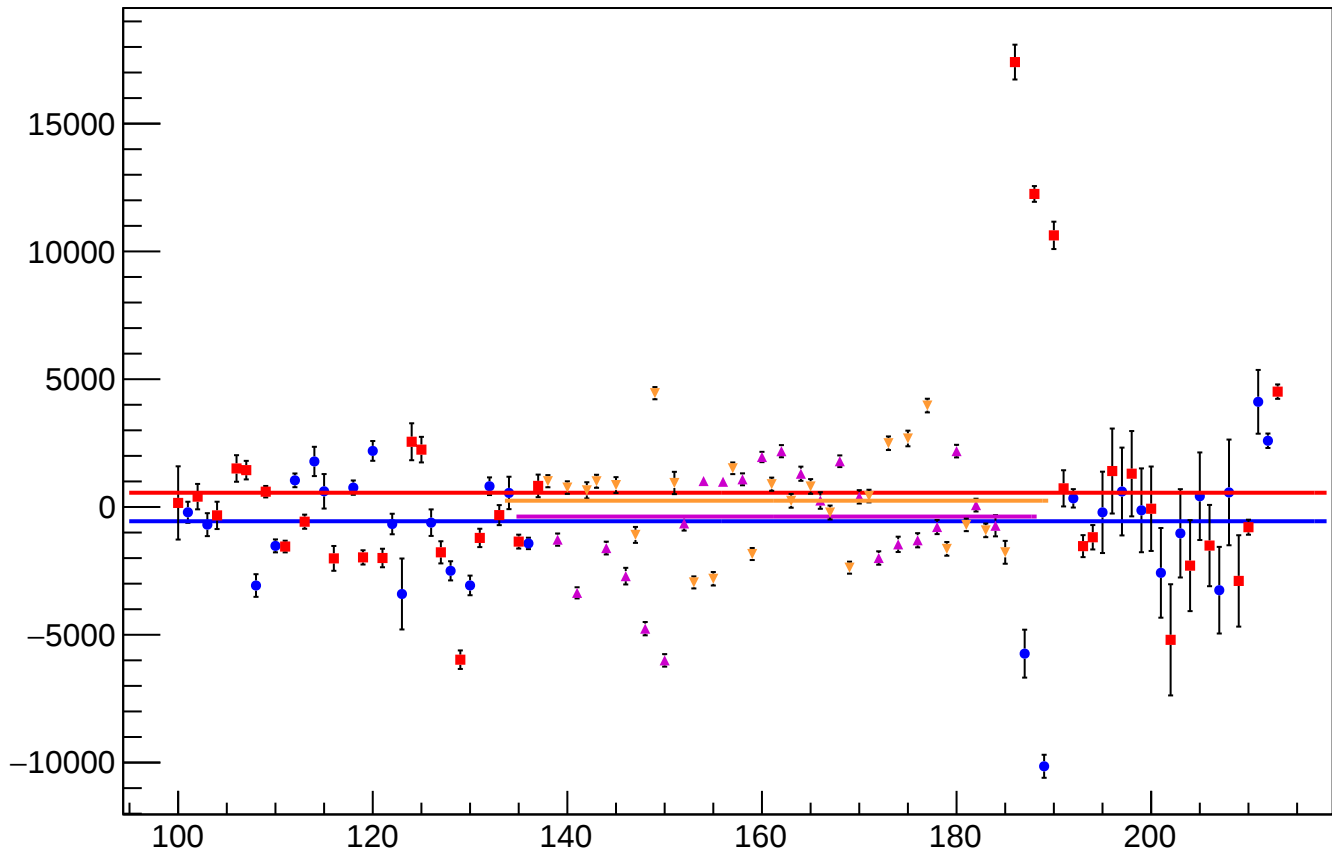
Right: 133.097+/-0.017 χ^2/NDF : 2362833.6/63

In: 140.762+/-0.018 χ^2/NDF : 3715029.5/52

Out: 139.238+/-0.017 χ^2/NDF : 3937420.1/58

All: 139.964+/-0.012 χ^2/NDF : 7656227.5/111

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -557.454 ± 80.399 χ^2/NDF : 915.1/29

Left Out: 246.120 ± 53.492 χ^2/NDF : 1354.8/24

Right Out: 557.681 ± 70.337 χ^2/NDF : 3398.4/33

Left In: -374.465 ± 51.892 χ^2/NDF : 1798.3/22

Left: -73.589 ± 37.246 χ^2/NDF : 3222.4/47

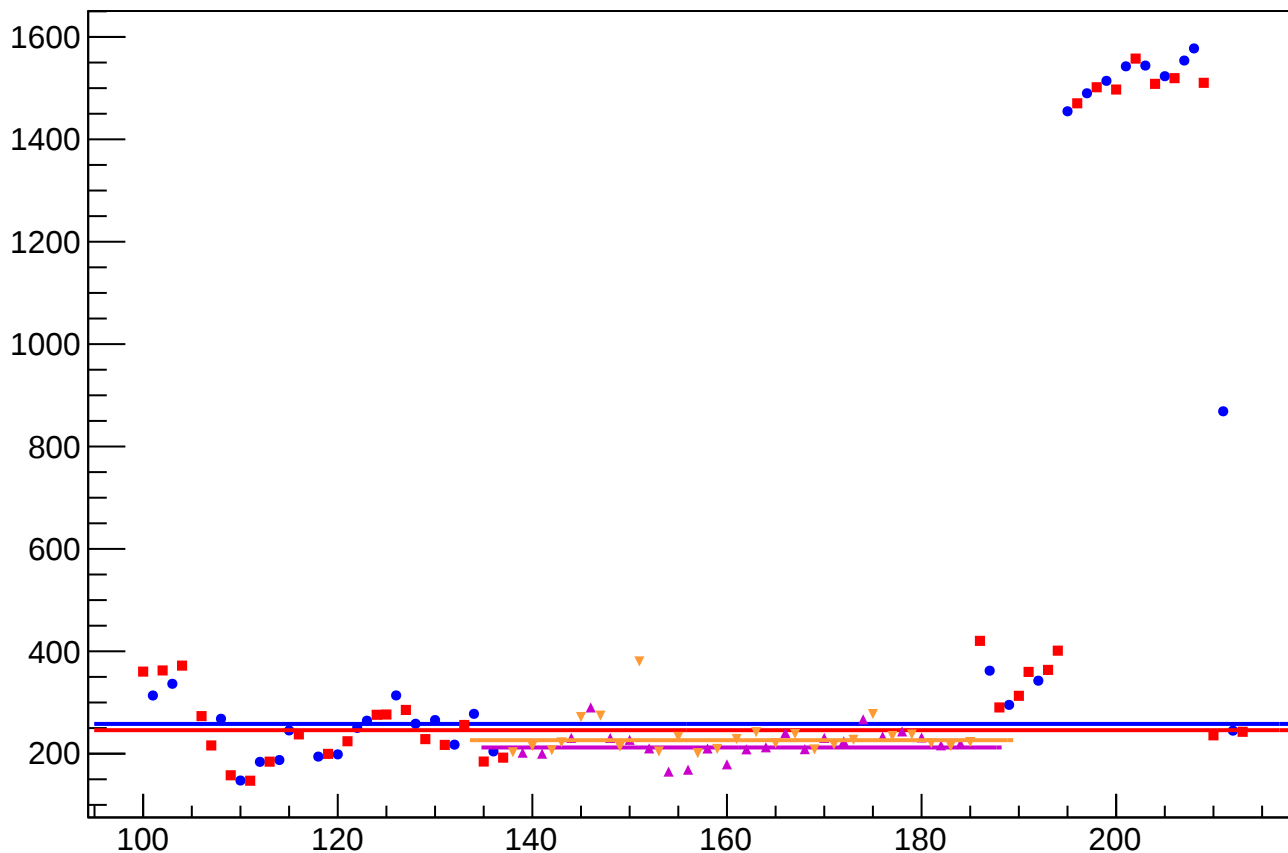
Right: 74.220 ± 52.938 χ^2/NDF : 4422.5/63

In: -428.278 ± 43.600 χ^2/NDF : 2717.1/52

Out: 360.285 ± 42.578 χ^2/NDF : 4765.7/58

All: -24.648 ± 30.462 χ^2/NDF : 7650.2/111

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 258.146+/-0.057 χ^2/NDF : 10196524.2/29

Left Out: 226.376+/-0.038 χ^2/NDF : 521770.1/24

Right Out: 245.932+/-0.050 χ^2/NDF : 9272612.5/33

Left In: 212.145+/-0.037 χ^2/NDF : 591698.6/22

Left: 219.044+/-0.026 χ^2/NDF : 1186390.8/47

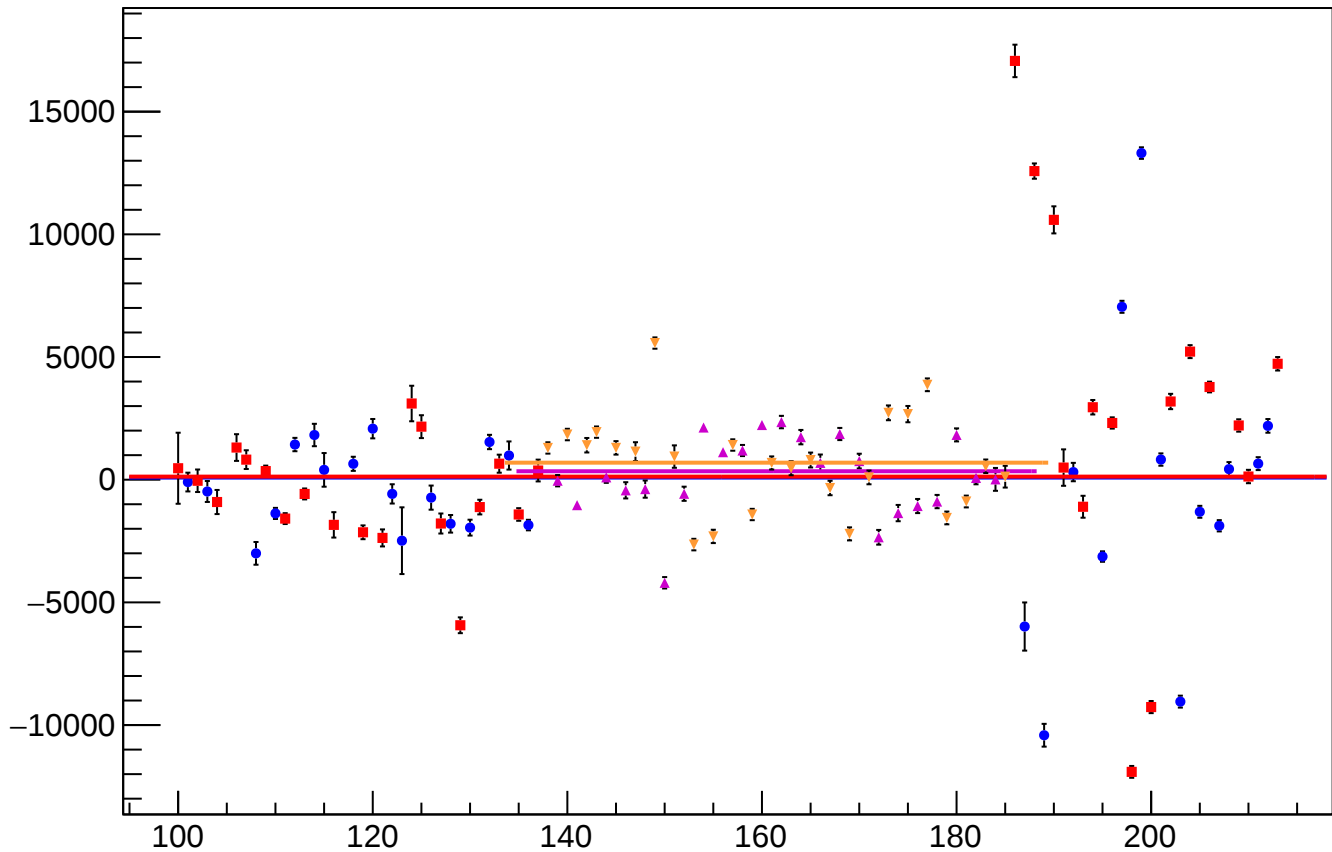
Right: 251.227+/-0.037 χ^2/NDF : 19495283.8/63

In: 225.673+/-0.031 χ^2/NDF : 11250413.4/52

Out: 233.542+/-0.030 χ^2/NDF : 9892337.1/58

All: 229.700+/-0.022 χ^2/NDF : 21176095.9/111

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 87.013 ± 56.103 χ^2/NDF : 6671.9/29

Left Out: 694.326 ± 54.246 χ^2/NDF : 1422.1/24

Right Out: 125.426 ± 54.213 χ^2/NDF : 8506.8/33

Left In: 344.578 ± 52.954 χ^2/NDF : 985.0/22

Left: 515.236 ± 37.893 χ^2/NDF : 2428.4/47

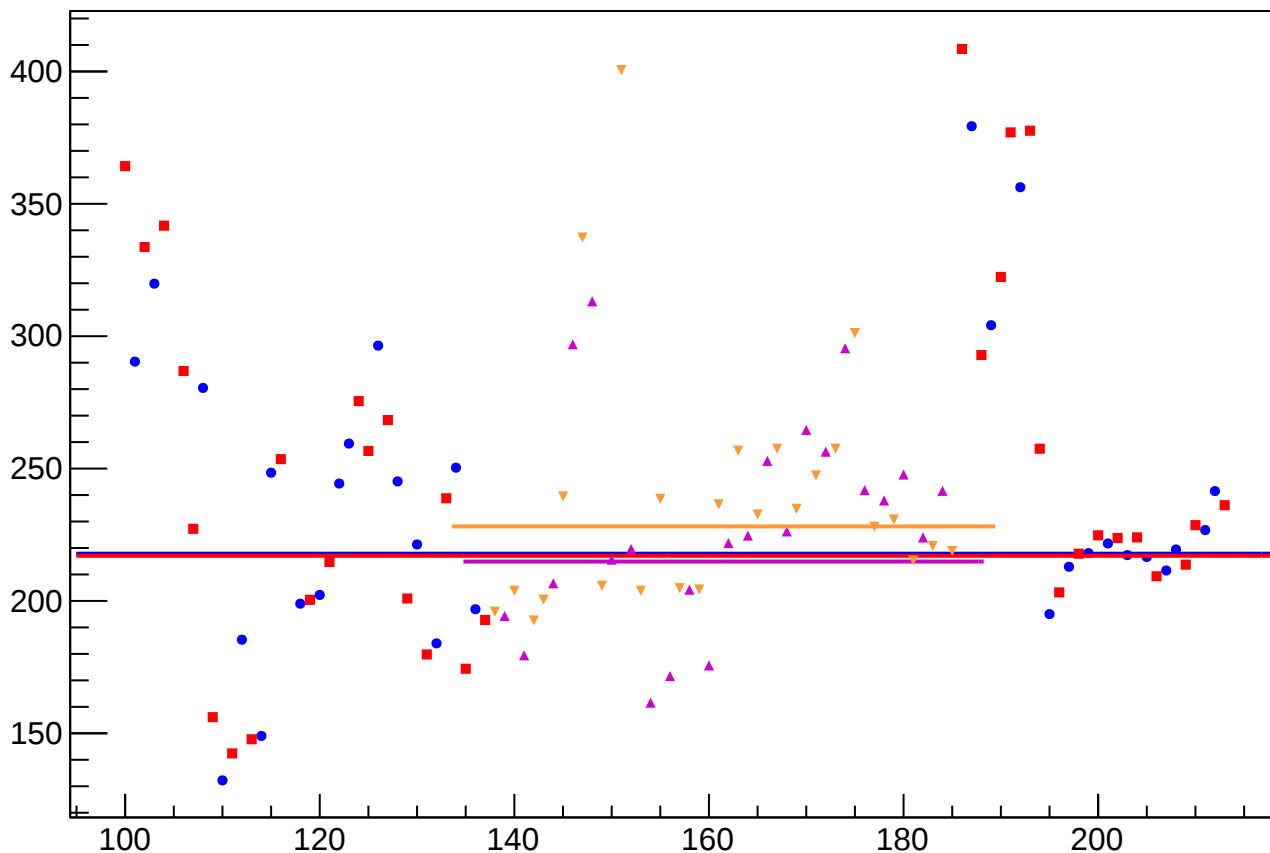
Right: 106.878 ± 38.986 χ^2/NDF : 15178.9/63

In: 223.227 ± 38.509 χ^2/NDF : 7668.0/52

Out: 409.699 ± 38.346 χ^2/NDF : 9983.9/58

All: 316.860 ± 27.172 χ^2/NDF : 17663.7/111

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 217.842 ± 0.040 $\chi^2/\text{NDF}: 1162931.2/29$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 217.062 ± 0.038 $\chi^2/\text{NDF}: 1835976.3/33$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

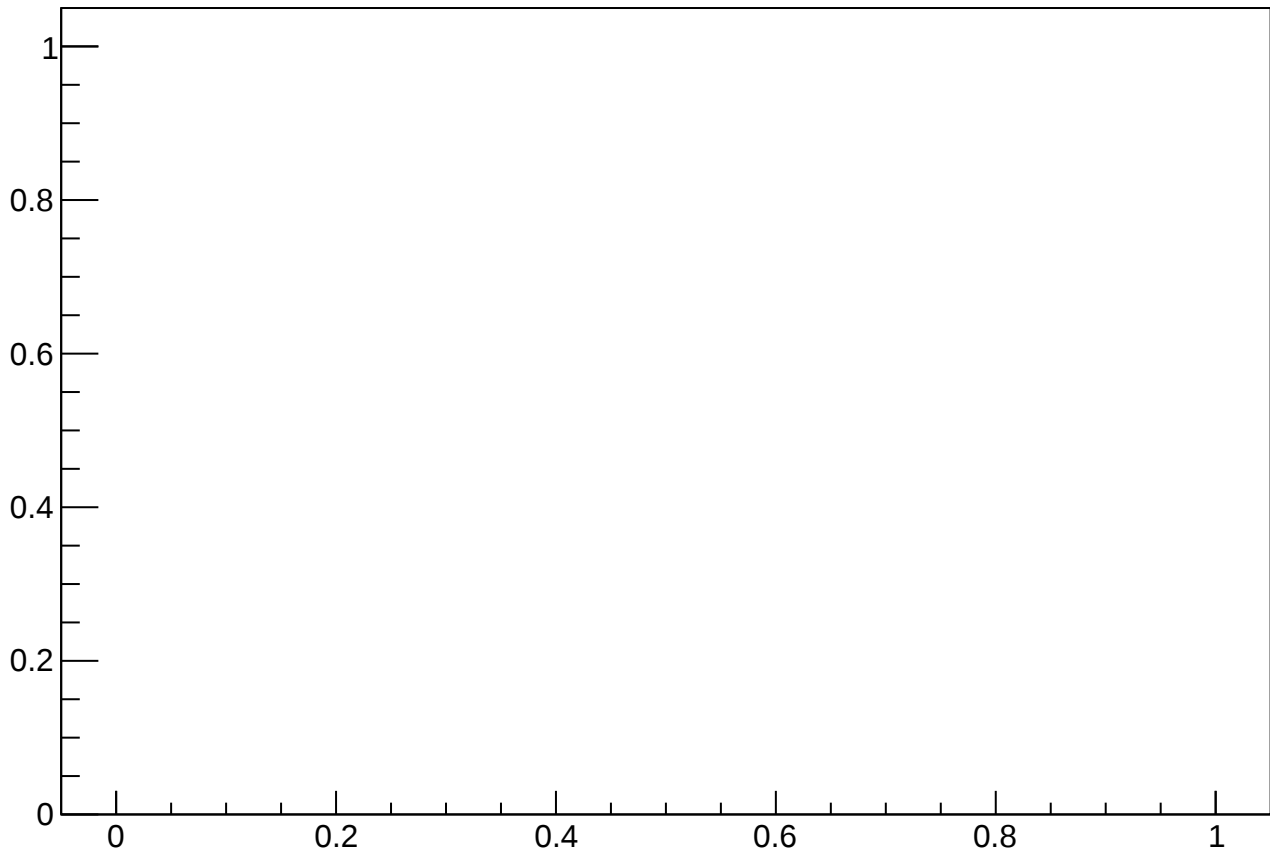
Right: 217.438 ± 0.028 $\chi^2/\text{NDF}: 2999107.6/63$

In: 216.274 ± 0.027 $\chi^2/\text{NDF}: 2203392.2/52$

Out: 222.599 ± 0.027 $\chi^2/\text{NDF}: 2706137.5/58$

All: 219.450 ± 0.019 $\chi^2/\text{NDF}: 4936618.4/111$

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

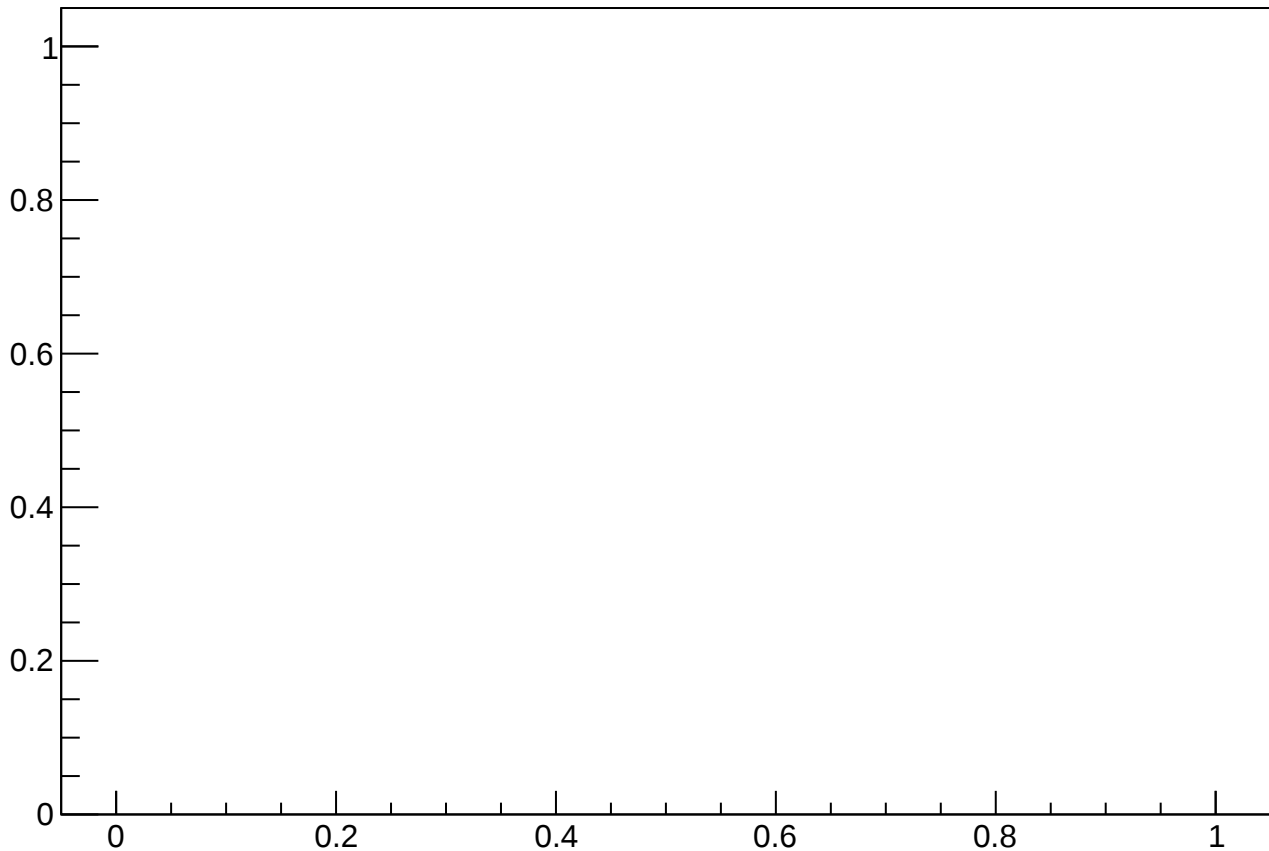
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

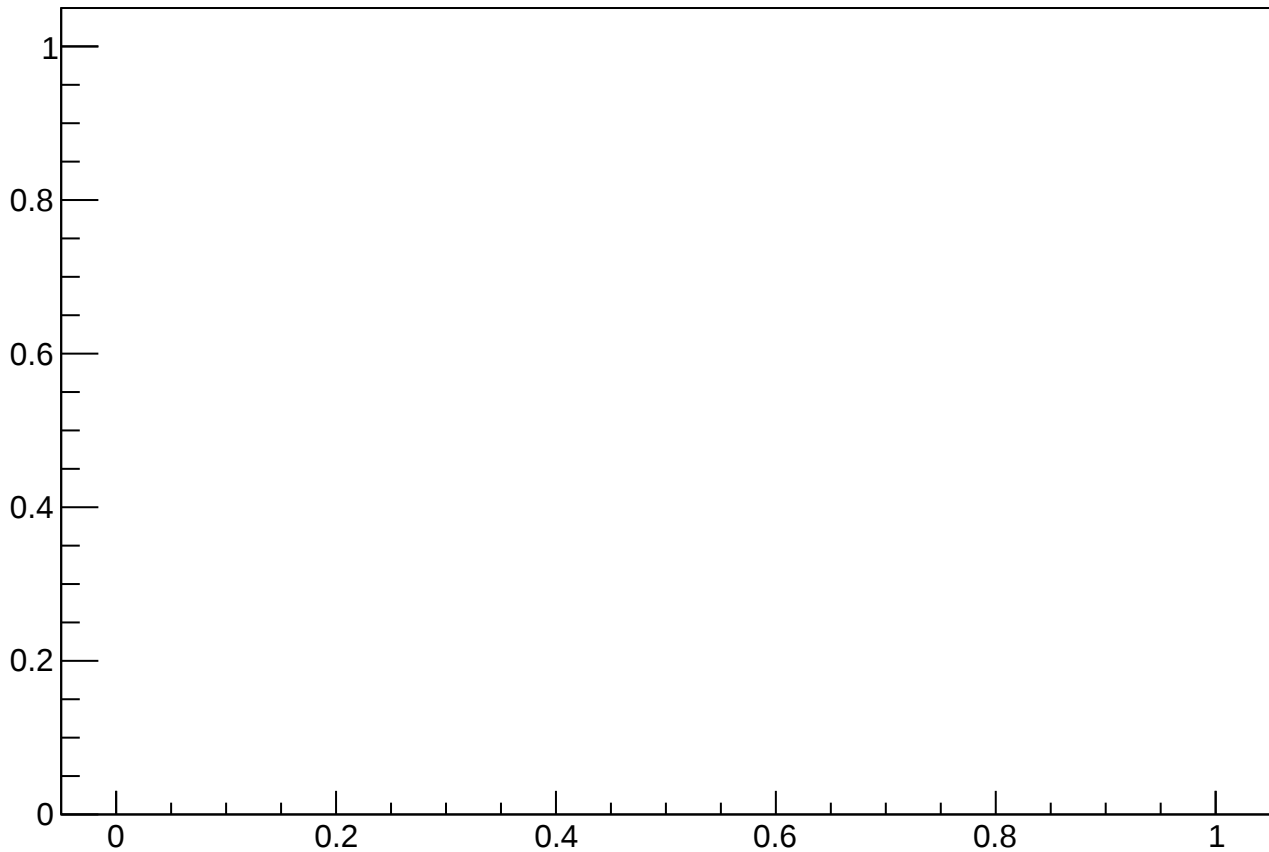
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

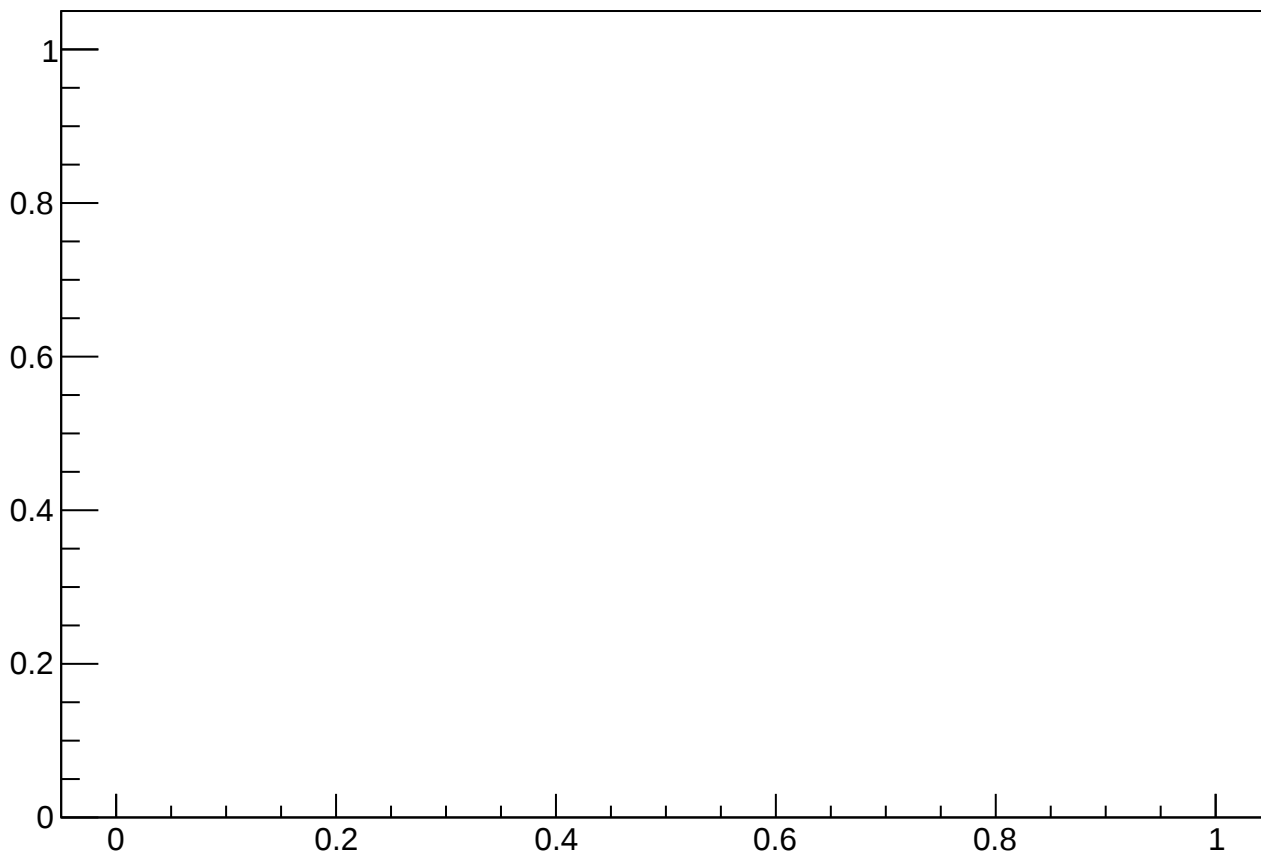
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

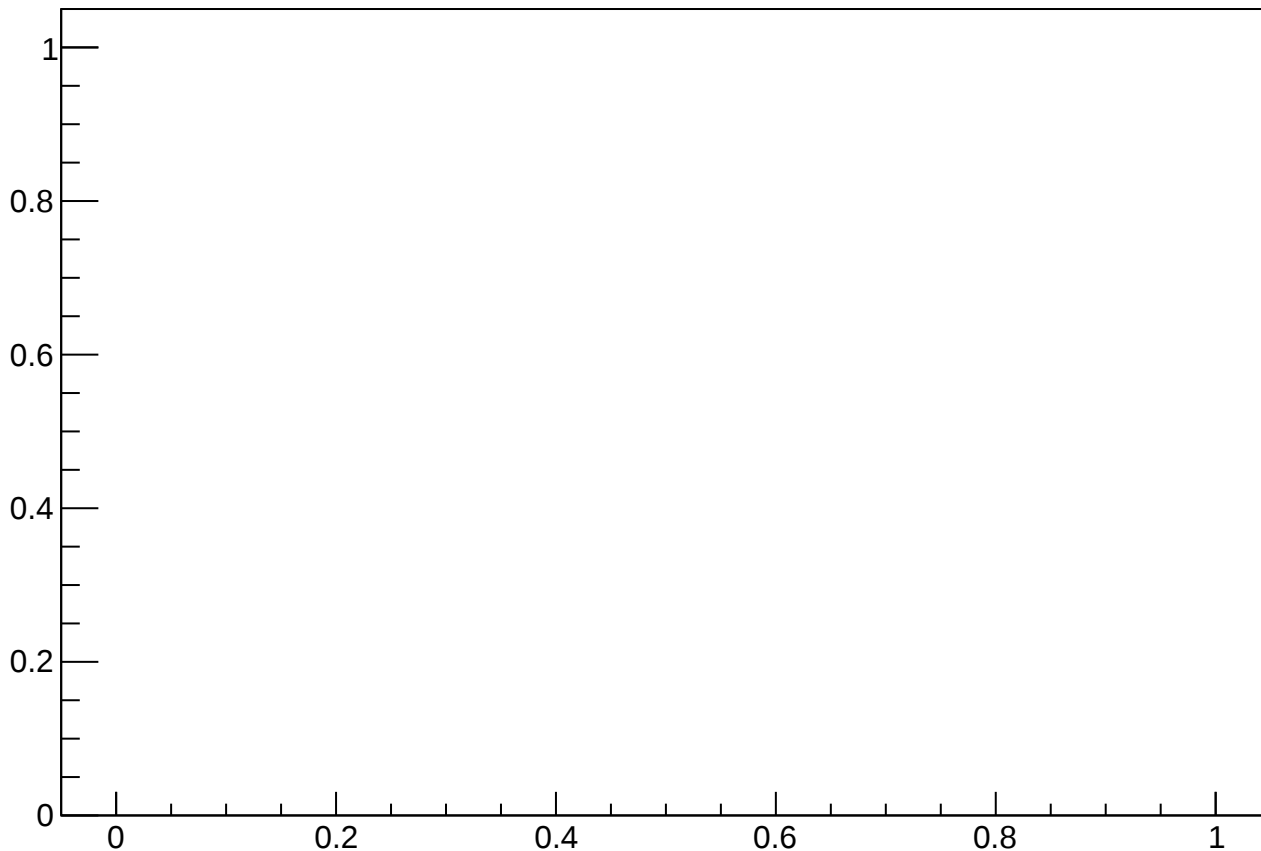
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

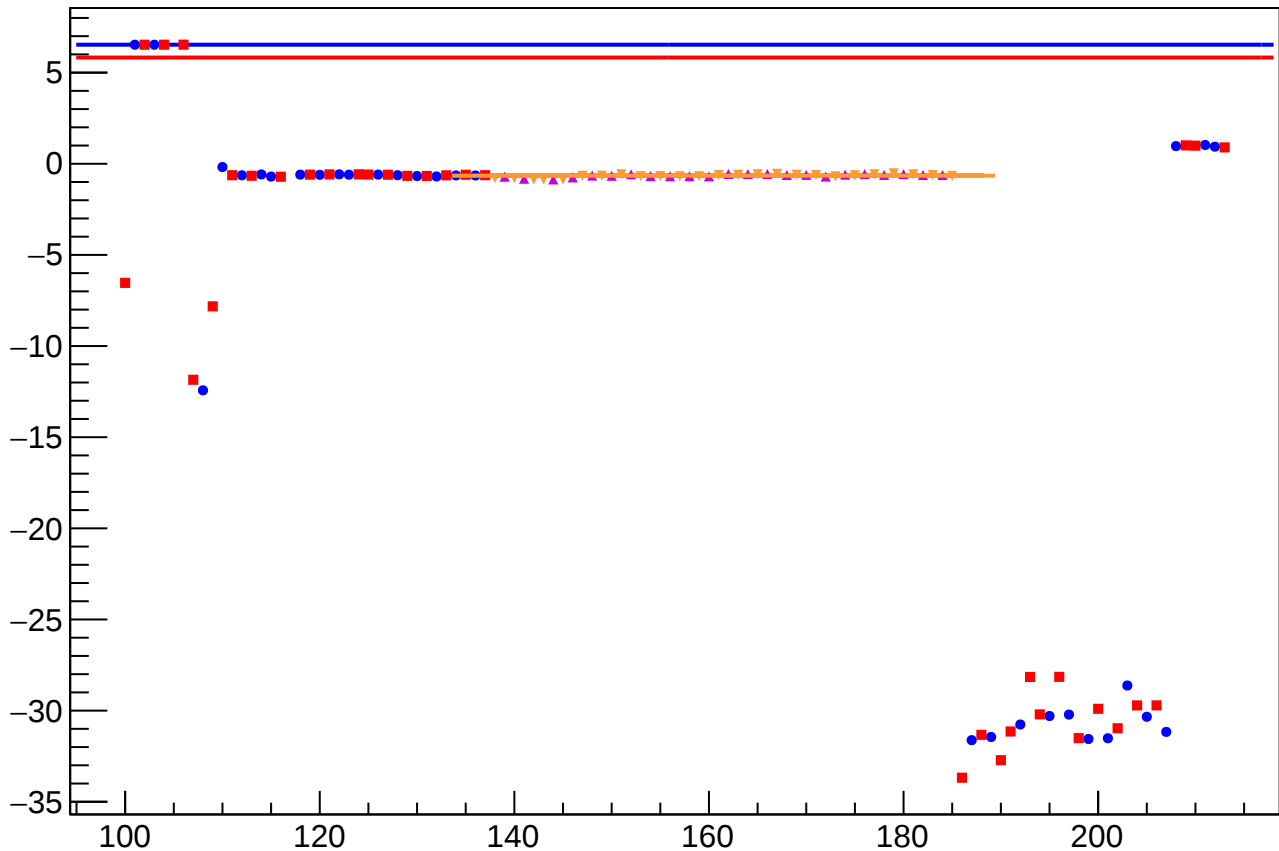
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 133671370592.9/29

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755966309767874.5/33

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

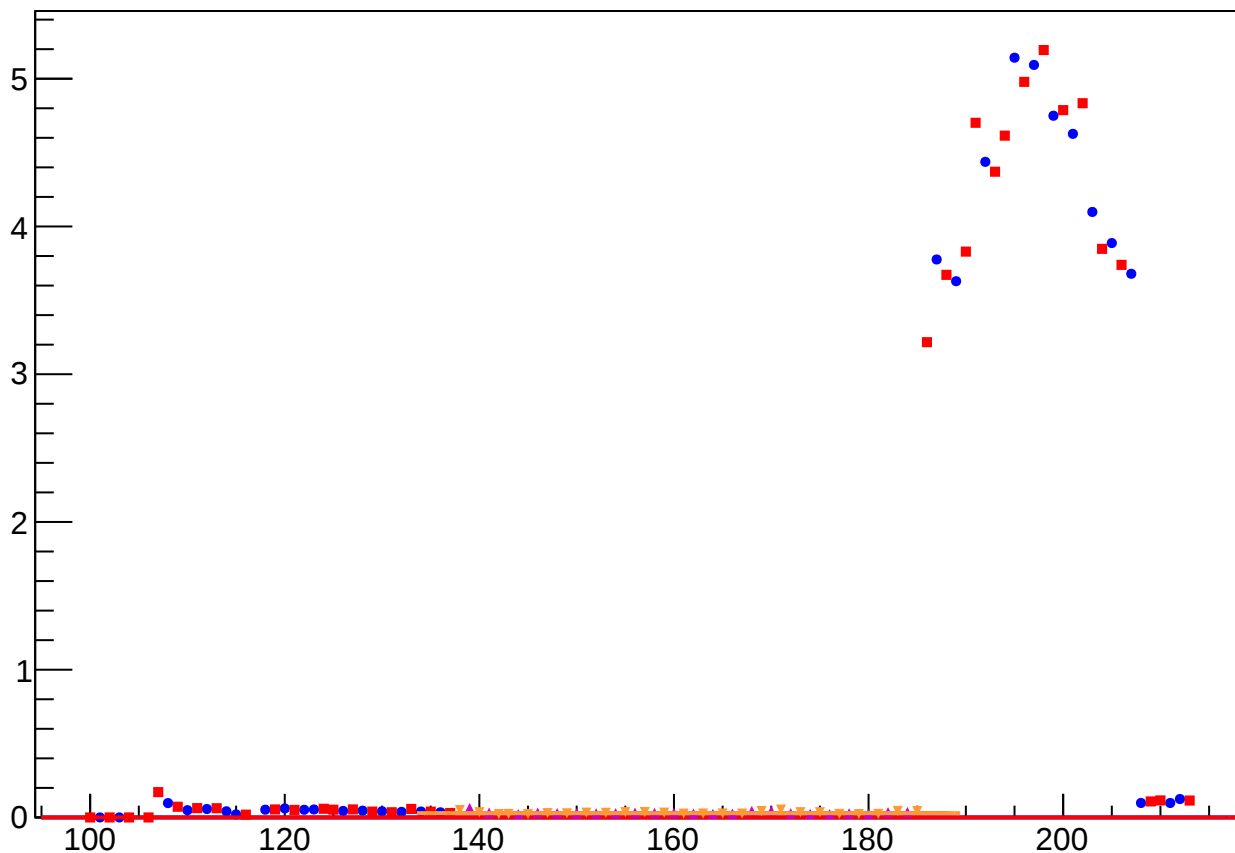
Right: 6.155+/-0.000 χ^2/NDF : 776103750620297.4/47

In: 6.530+/-0.000 χ^2/NDF : 967786853238.0/52

Out: 5.826+/-0.000 χ^2/NDF : 756677324647255.0/52

All: 6.153+/-0.000 χ^2/NDF : 77763717753372.0/100

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 26801945.0/29

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29025937.5/33

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

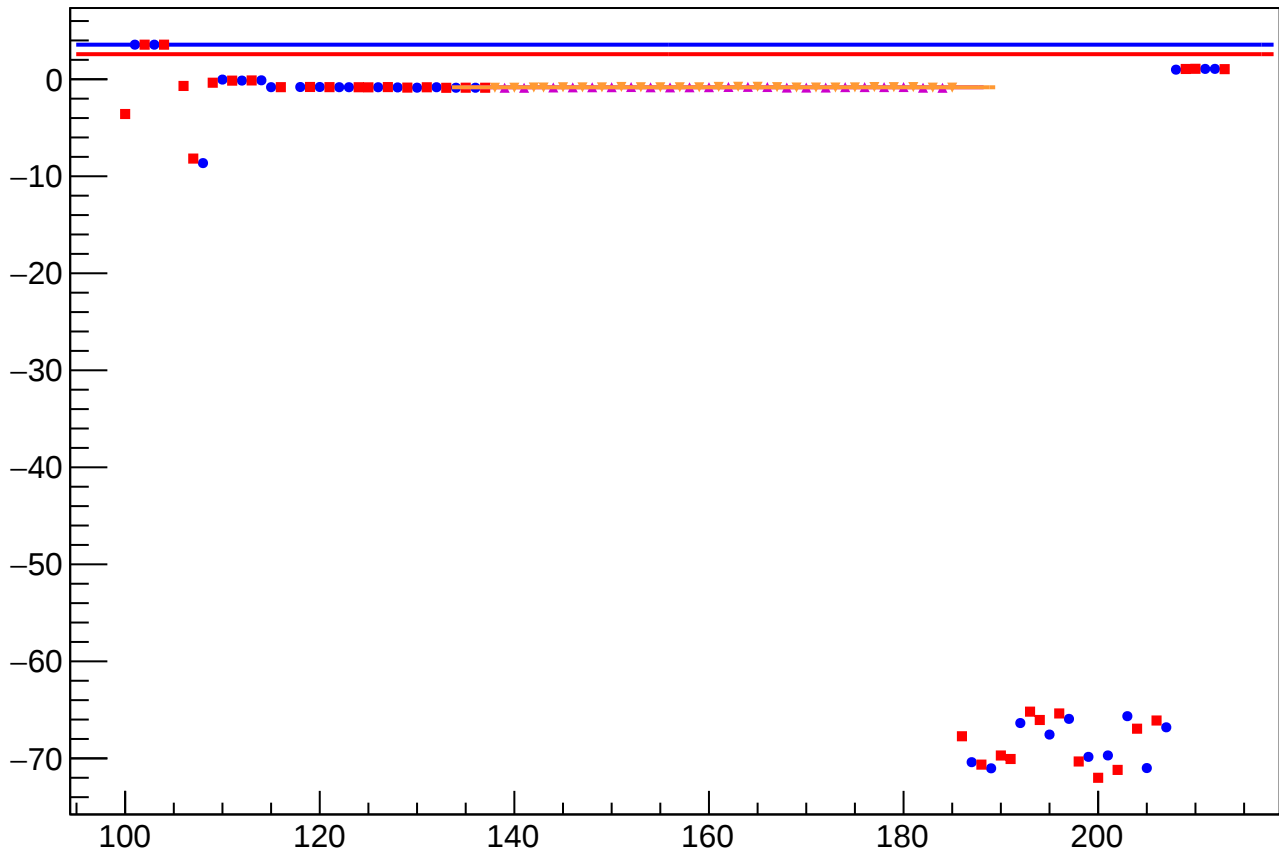
Right: 0.000+/-0.000 χ^2/NDF : 55828142.4/63

In: 0.000+/-0.000 χ^2/NDF :54979261.2/52

Out: 0.000+/-0.000 χ^2/NDF :58993547.7/58

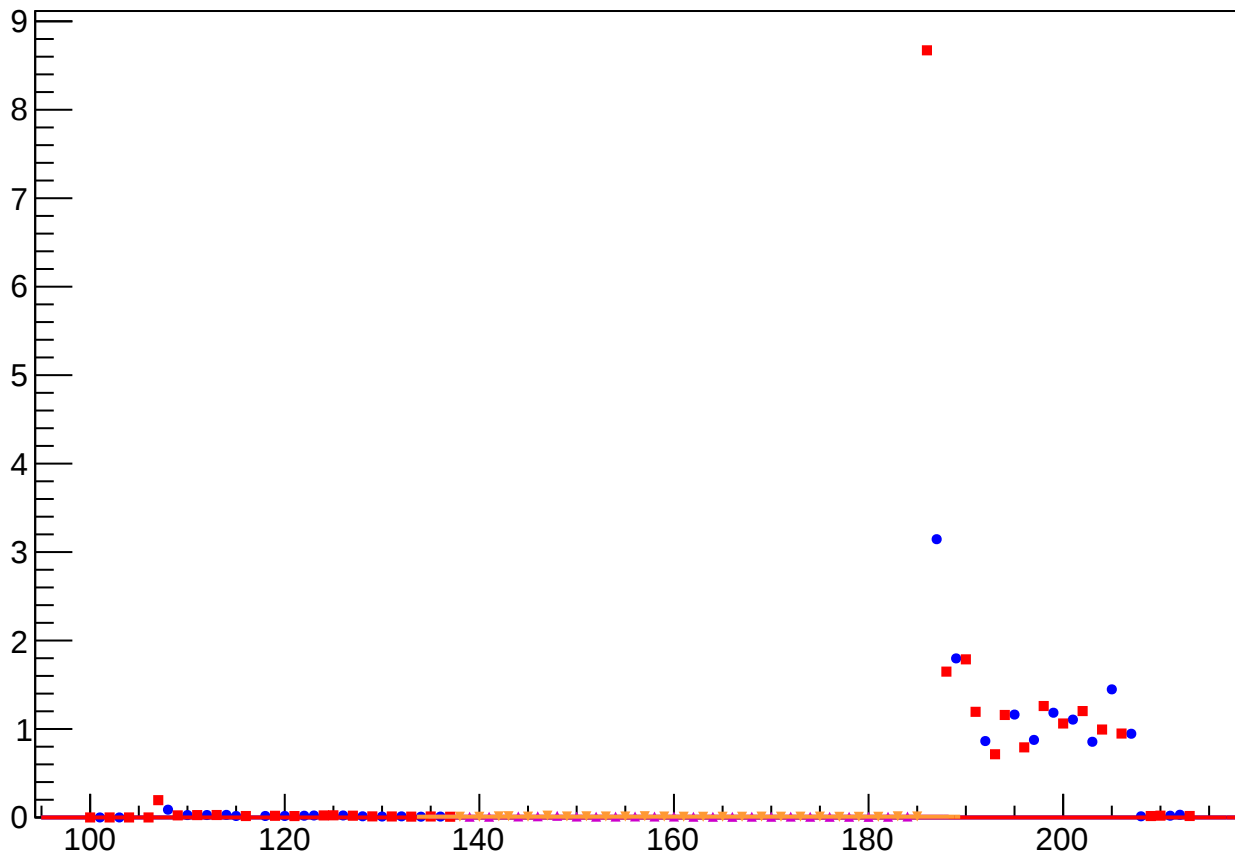
All: 0.000+/-0.000 χ^2/NDF : 113973250.5/111

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 539017866925.8/29	Left: -0.827+/-0.000	χ^2/NDF : 344237775.5/47
Left Out: -0.827+/-0.000	χ^2/NDF : 170052639.9/24	Right: 3.040+/-0.000	χ^2/NDF : 1382354449687277.1
Right Out: 2.583+/-0.000	χ^2/NDF : 1253545808410849.0/33	In: 3.560+/-0.000	χ^2/NDF : 4219492176627.9/52
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255776663058297.5
		All: 3.038+/-0.000	χ^2/NDF : 13880788815362

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24638089.7/29

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 26923893.8/33

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

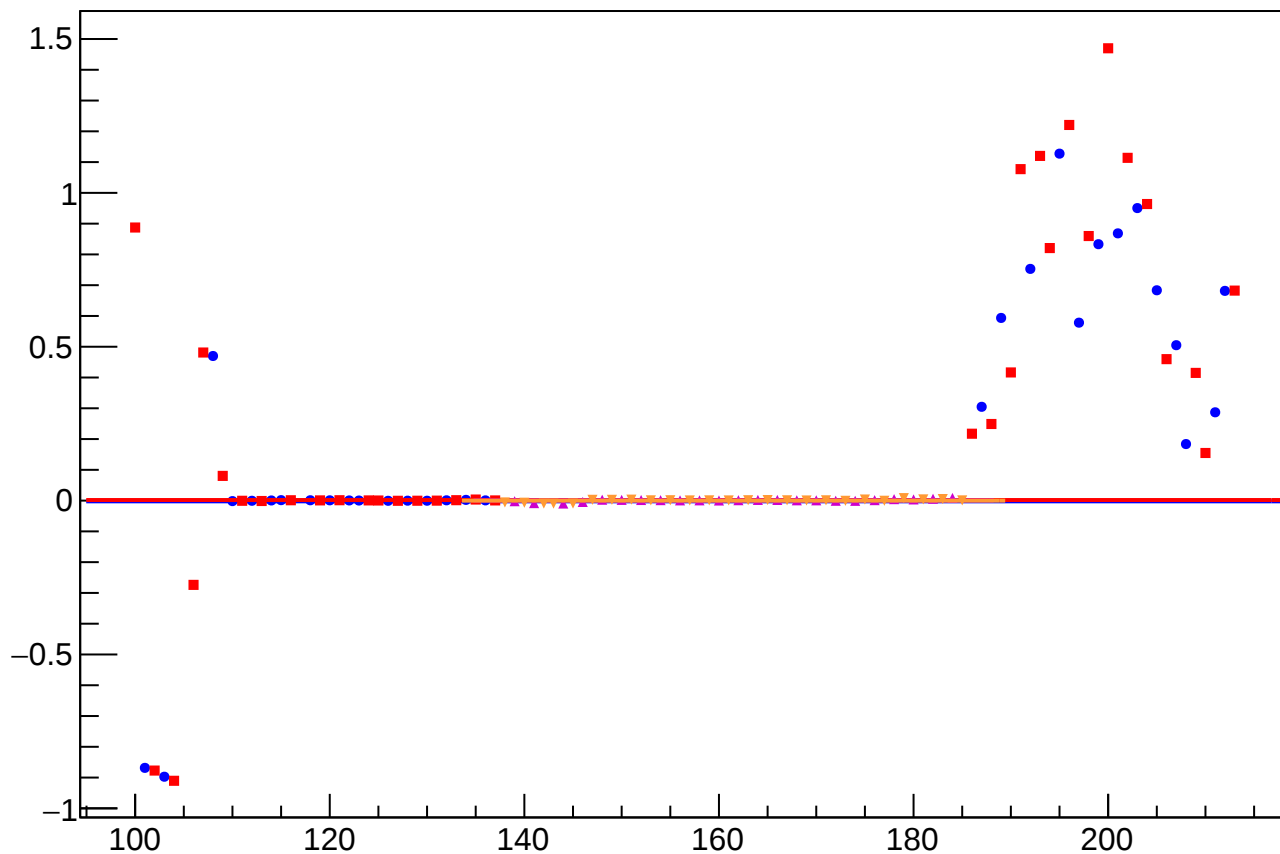
Right: 0.000+/-0.000 χ^2/NDF : 51562236.4/63

In: 0.000+/-0.000 χ^2/NDF :54432866.4/52

Out: 0.000+/-0.000 χ^2/NDF :58439338.2/58

All: 0.000+/-0.000 χ^2/NDF : 112872947.3/111

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796580192.4/29

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3043735807.3/33

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

Left: 0.000+/-0.000 χ^2/NDF : 254489625.0/47

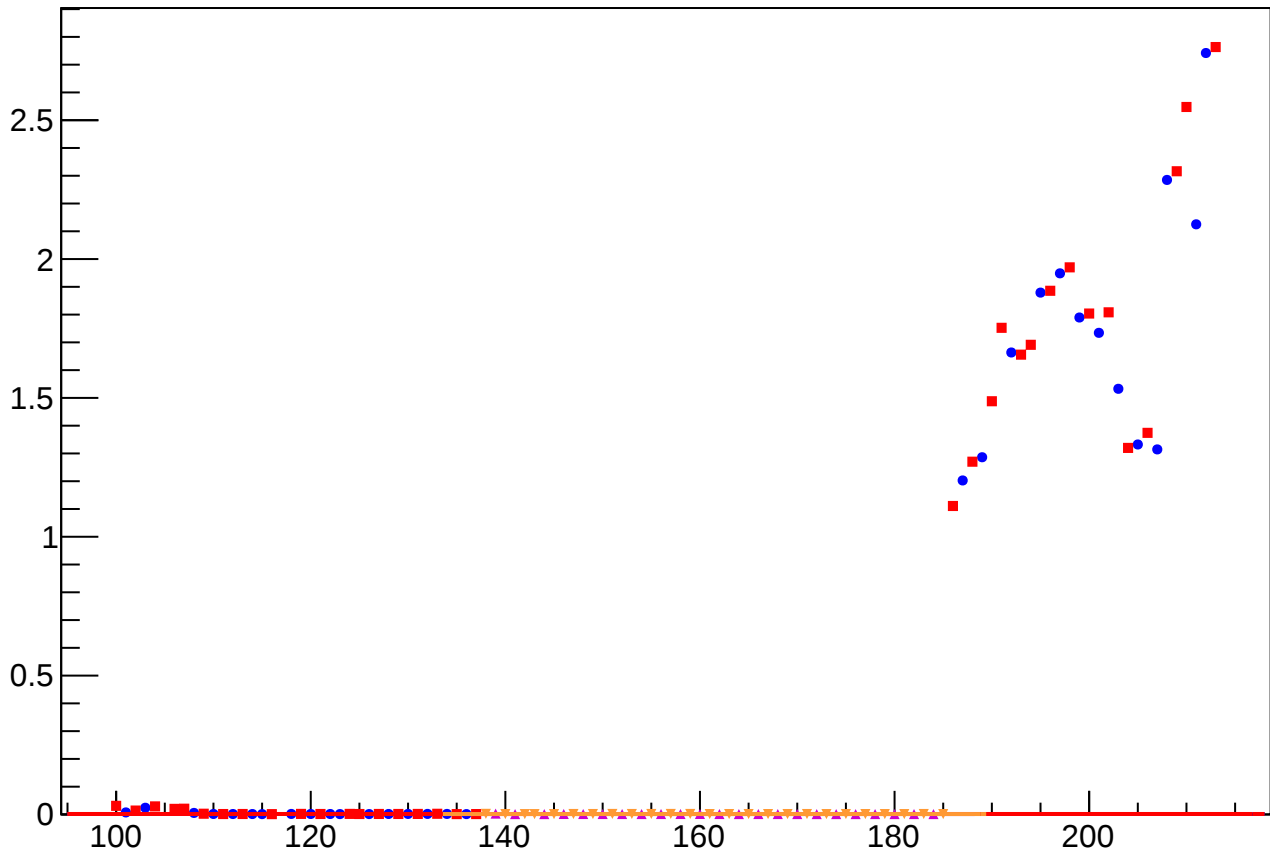
Right: -0.000+/-0.000 χ^2/NDF : 12854463646.6/63

In: -0.000+/-0.000 χ^2/NDF : 9909486345.5/52

Out: 0.000+/-0.000 χ^2/NDF : 3199974280.9/58

All: 0.000+/-0.000 χ^2/NDF : 13109832123.4/113

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 19848160.5/29

Left Out: 0.001+/-0.000 χ^2/NDF : 539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 22696840.0/33

Left In: 0.001+/-0.000 χ^2/NDF : 659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

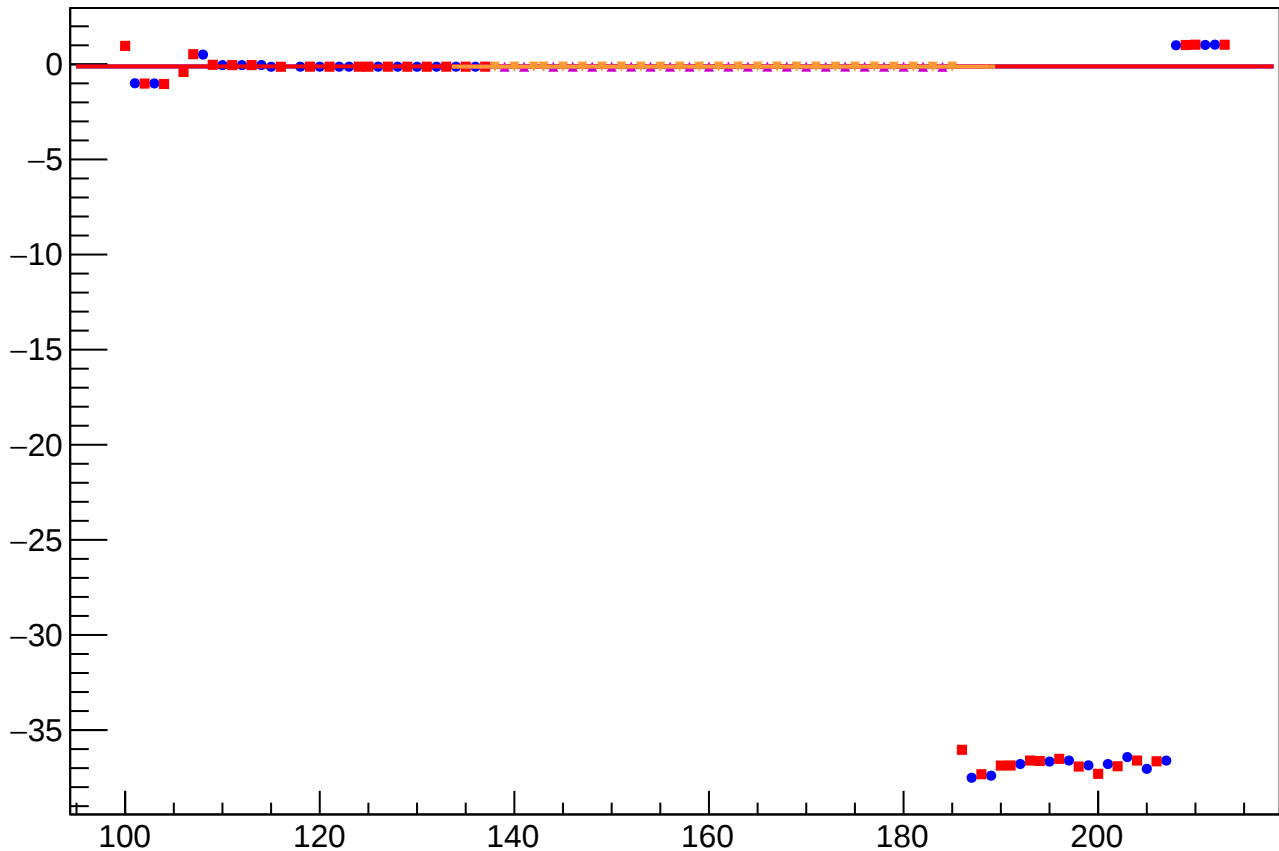
Right: 0.002+/-0.000 χ^2/NDF : 42552976.0/63

In: 0.002+/-0.000 χ^2/NDF : 20561022.6/52

Out: 0.002+/-0.000 χ^2/NDF : 23373204.1/58

All: 0.002+/-0.000 χ^2/NDF : 43934859.0/111

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.113+/-0.000 χ^2/NDF : 82493187932.8/29

Left Out: -0.121+/-0.000 χ^2/NDF : 58329026.8/24

Right Out: -0.107+/-0.000 χ^2/NDF : 87770038442.9/33

Left In: -0.121+/-0.000 χ^2/NDF : 53134323.3/22

Left: -0.121+/-0.000 χ^2/NDF : 111705307.2/47

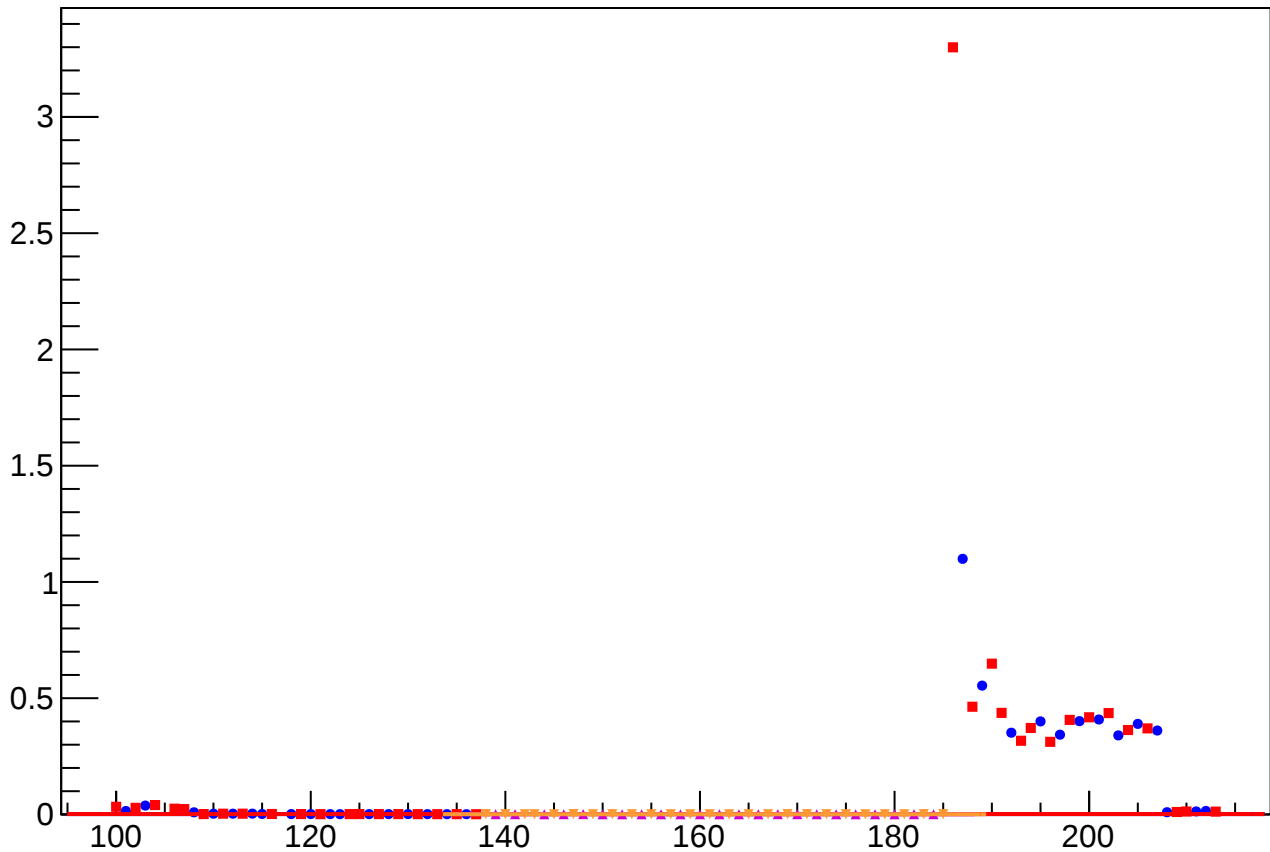
Right: -0.110+/-0.000 χ^2/NDF : 170295653620.6/63

In: -0.120+/-0.000 χ^2/NDF : 82646756098.8/52

Out: -0.120+/-0.000 χ^2/NDF : 88151514867.1/58

All: -0.120+/-0.000 χ^2/NDF : 170799596145.7

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 19164487.5/29

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 21616744.8/33

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

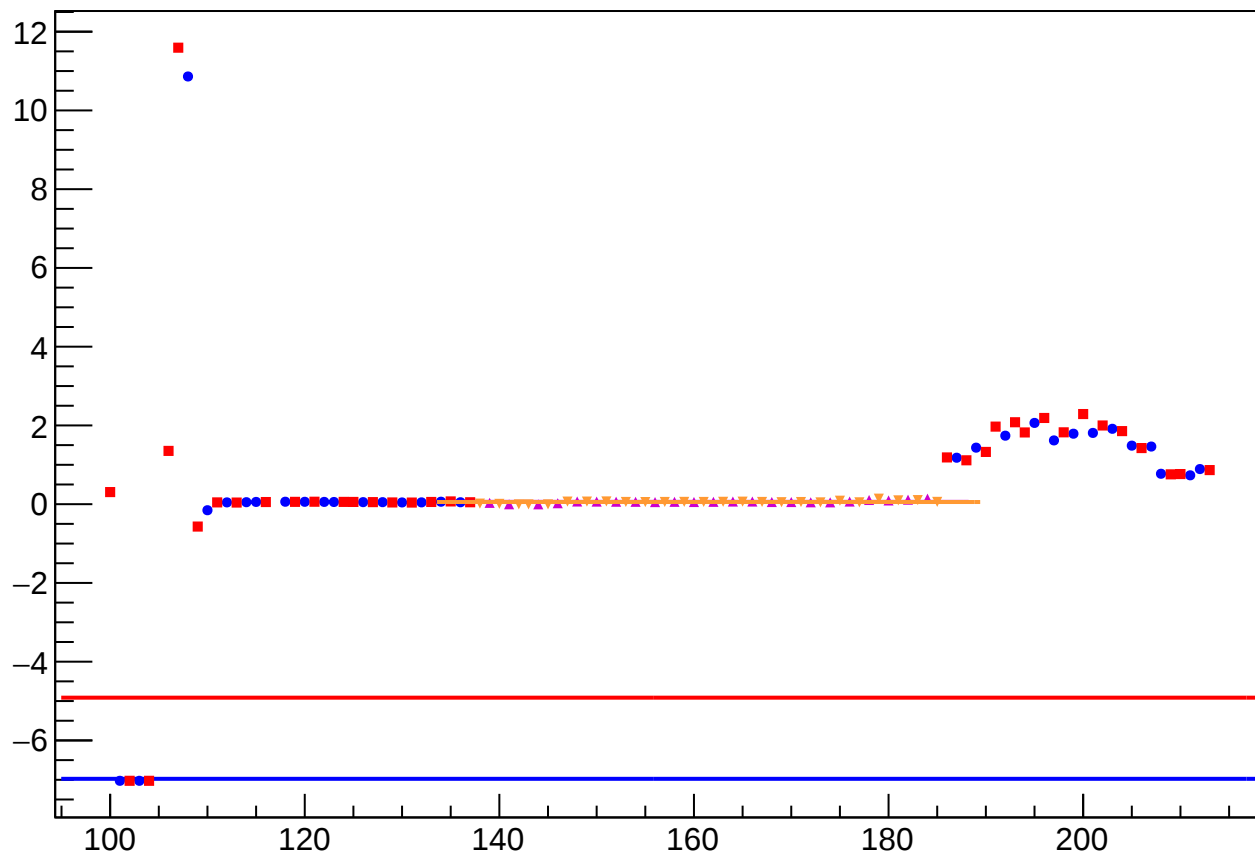
Right: 0.002+/-0.000 χ^2/NDF : 40781241.0/63

In: 0.001+/-0.000 χ^2/NDF :21606784.4/52

Out: 0.001+/-0.000 χ^2/NDF :24513798.7/58

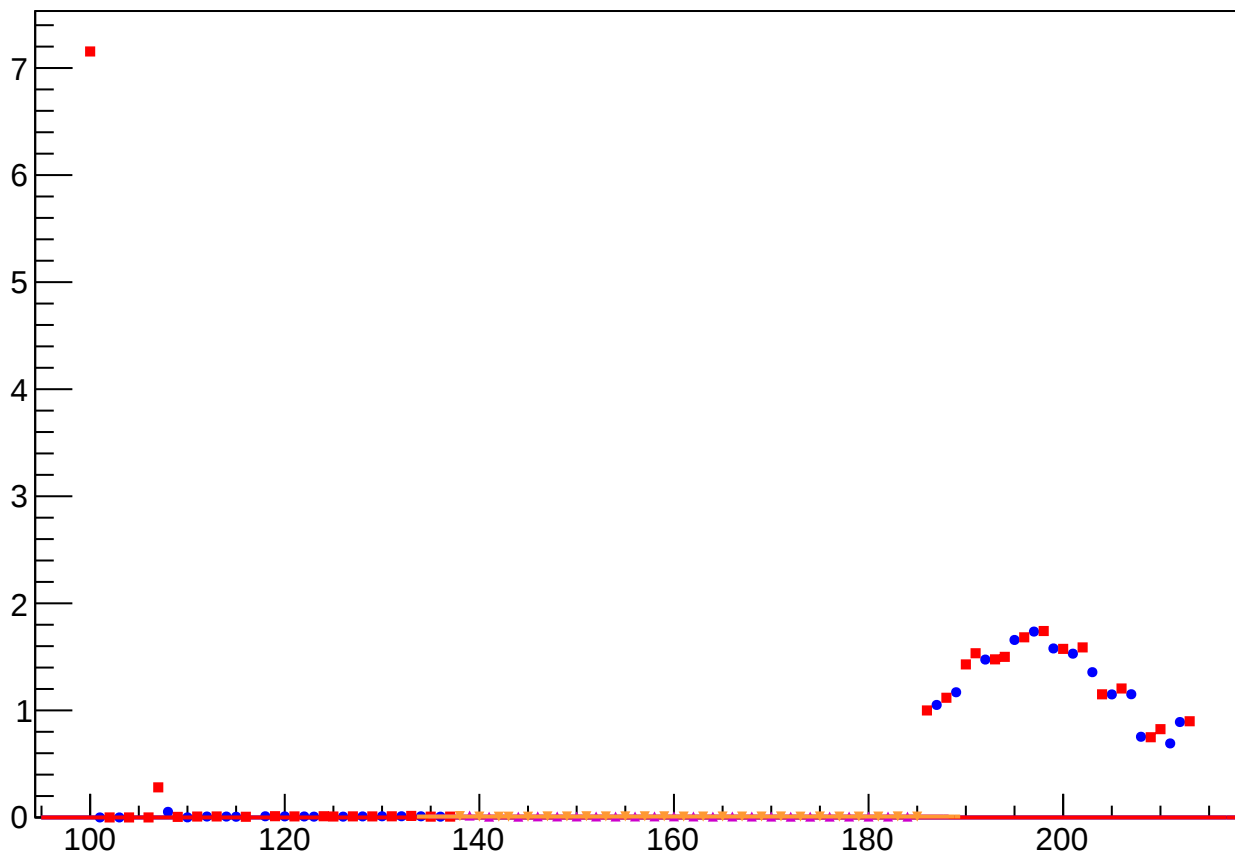
All: 0.001+/-0.000 χ^2/NDF : 46122597.7/111

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8762928673343.3/29$ 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 $\chi^2/\text{NDF}: 430303932641082.9$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348816745207.2/33$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605451849016.6/52$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175501767296.6/52$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435818915828.6/100$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 26178760.5/29

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 28458966.4/33

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

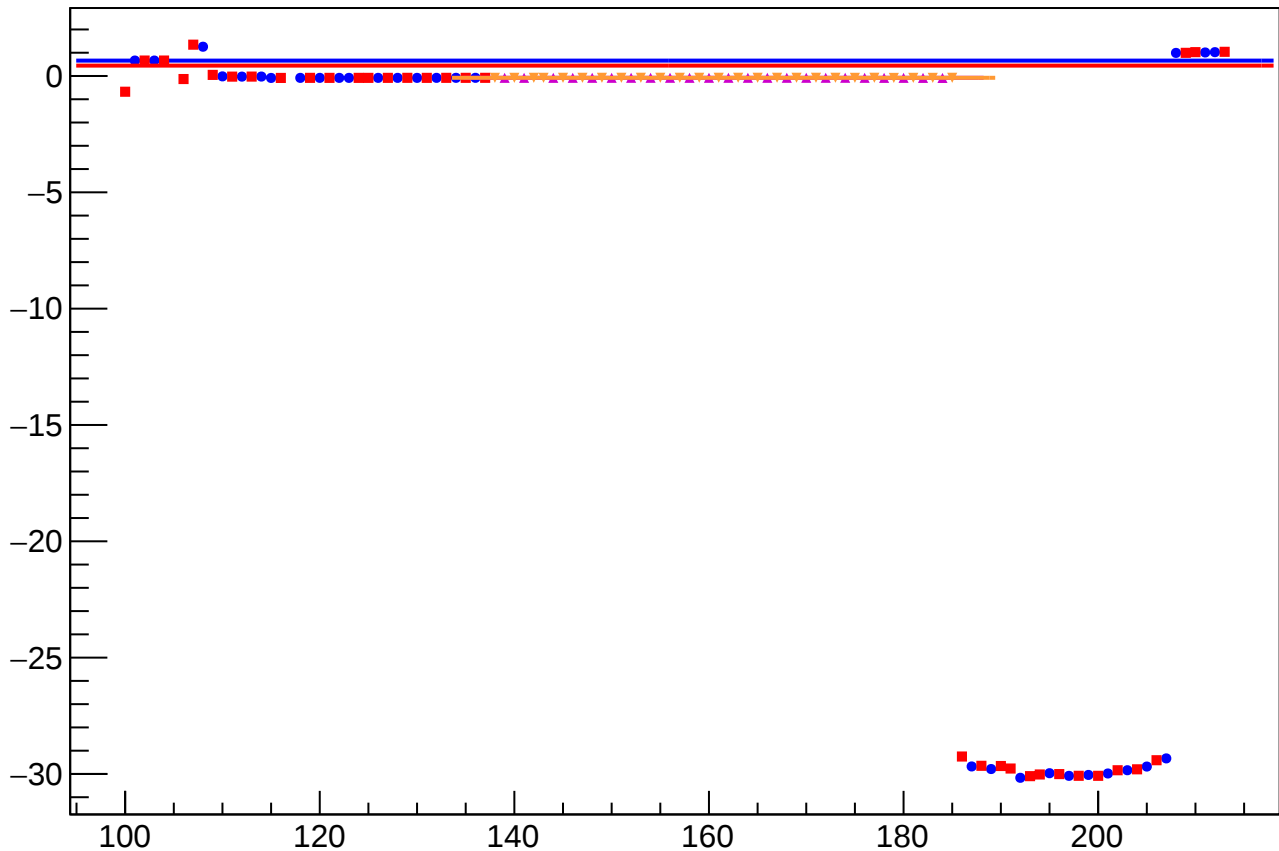
Right: 0.000+/-0.000 χ^2/NDF : 54638036.1/63

In: 0.000+/-0.000 χ^2/NDF : 53814530.4/52

Out: 0.000+/-0.000 χ^2/NDF : 57486111.7/58

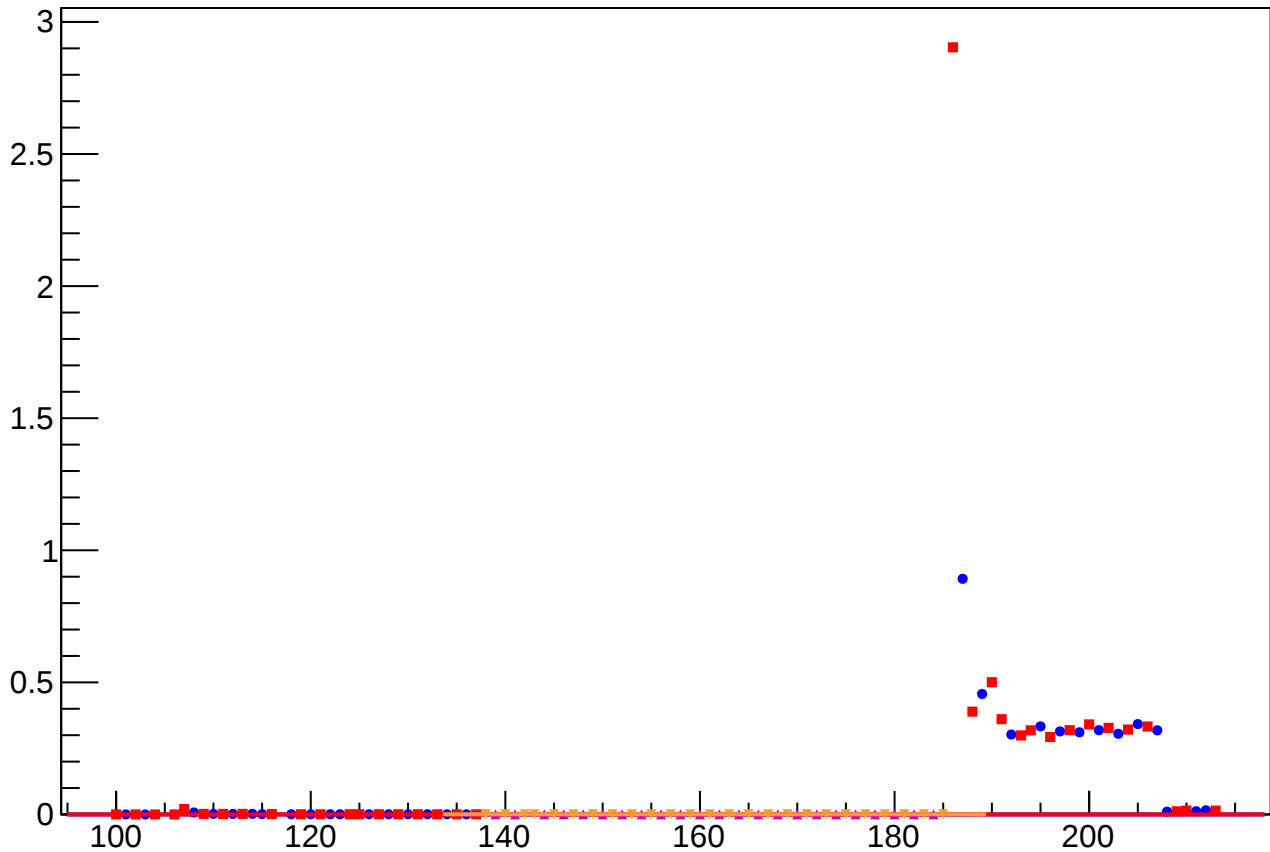
All: 0.000+/-0.000 χ^2/NDF : 111301135.4/111

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5647304354432.7/29	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 : 474058996936904.2/50
Right Out: 0.446+/-0.000	χ^2/NDF : 405482589419391.6/33	In: 0.647+/-0.000	χ^2/NDF : 33907369842136.7/52
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420677290648820.8/50
		All: 0.537+/-0.000	χ^2/NDF : 51610923767072.0/100

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 27566461.2/29

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29028855.2/33

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

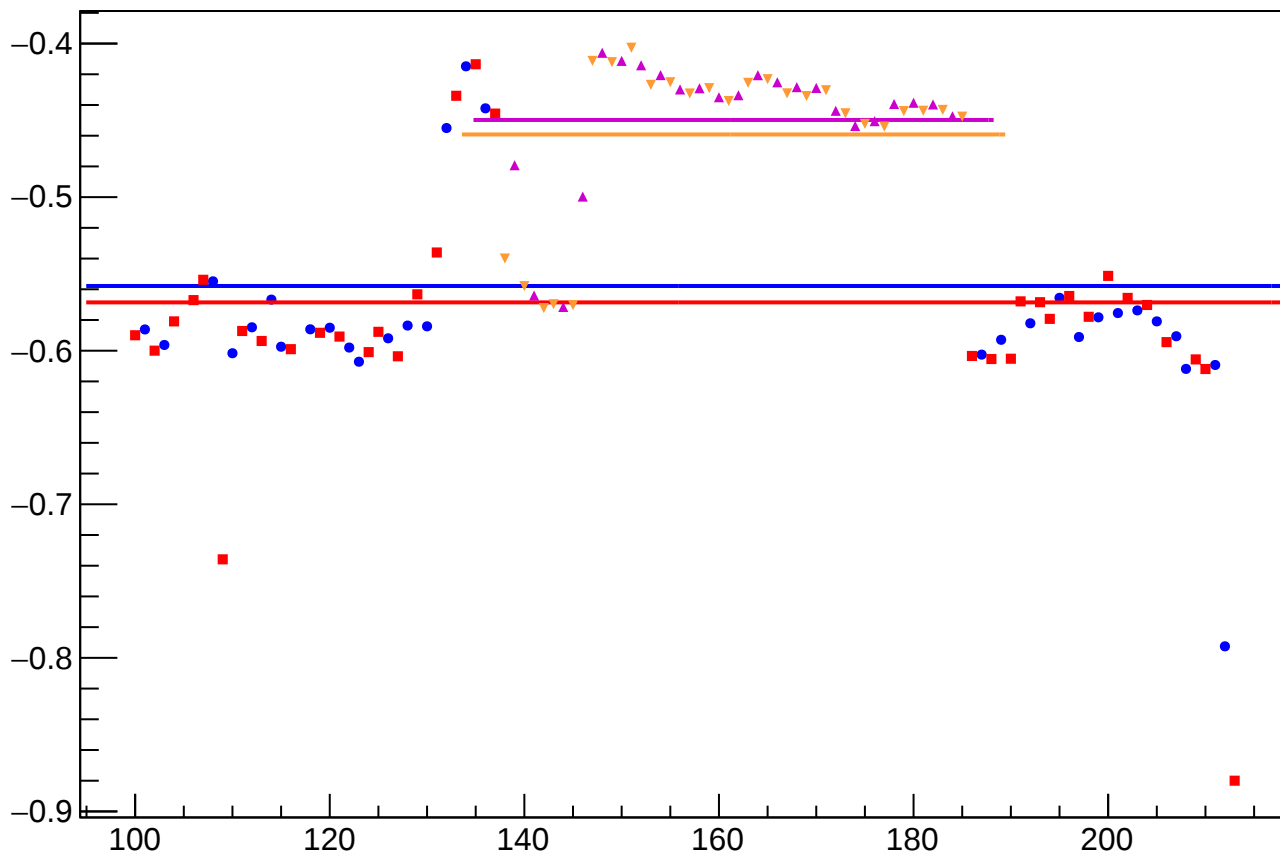
Right: 0.000+/-0.000 χ^2/NDF : 56595324.6/63

In: 0.000+/-0.000 χ^2/NDF :58537789.5/52

Out: 0.000+/-0.000 χ^2/NDF :61736047.8/58

All: 0.000+/-0.000 χ^2/NDF : 120274250.1/111

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.558 $\pm$ 0.000 χ^2 /NDF: 63480896.6/29

Left Out: -0.459 $\pm$ 0.000 χ^2 /NDF:113808762.6/24

Right Out: -0.569 $\pm$ 0.000 χ^2 /NDF: 88486301.6/33

Left In: -0.450 $\pm$ 0.000 χ^2 /NDF:76151485.7/22

Left: -0.455 $\pm$ 0.000 χ^2 /NDF: 191688333.2/47

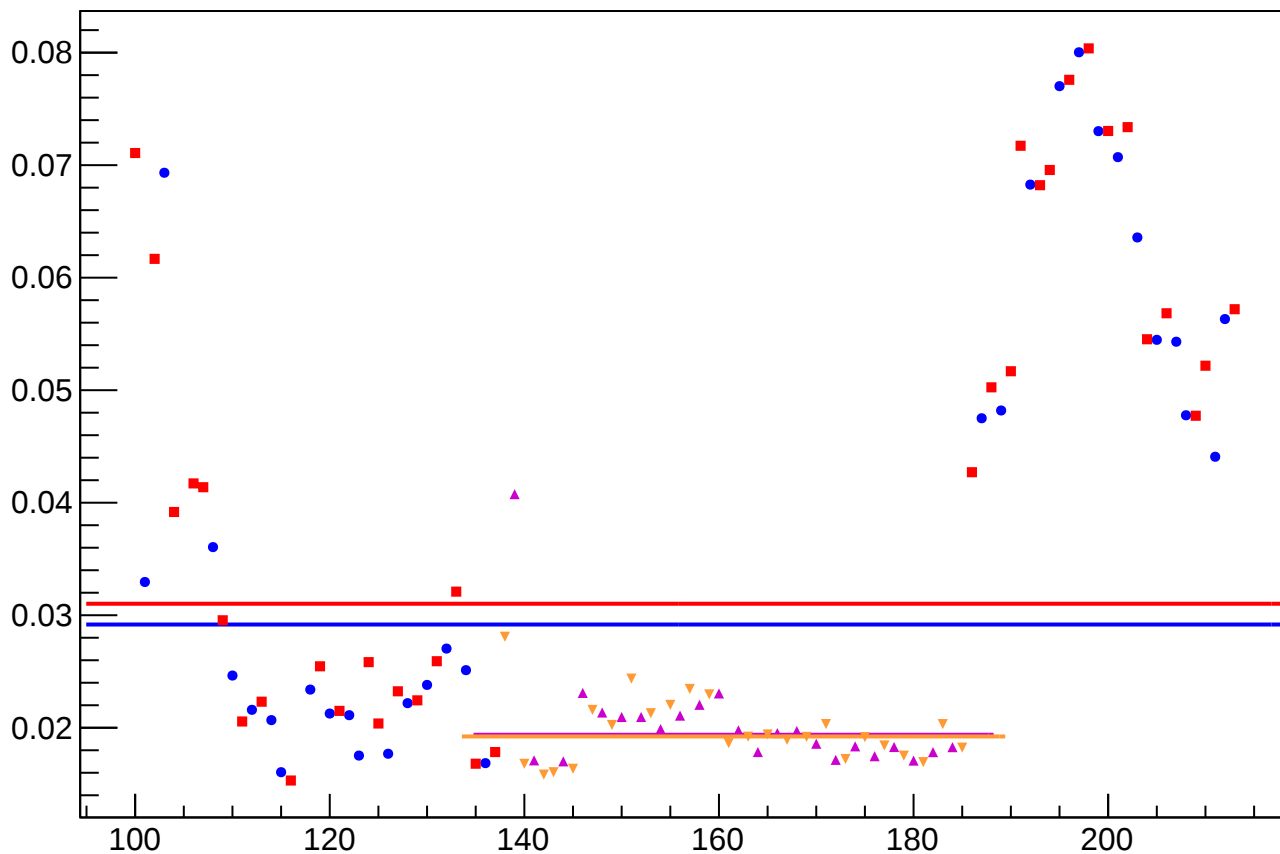
Right: -0.563 $\pm$ 0.000 χ^2 /NDF: 152697135.5/63

In: -0.478 $\pm$ 0.000 χ^2 /NDF:252068812.7/52

Out: -0.485 $\pm$ 0.000 χ^2 /NDF:317170293.0/58

All: -0.482 $\pm$ 0.000 χ^2 /NDF: 570783946.8/111

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 6941650.3/29

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.031+/-0.000 χ^2/NDF : 7184859.2/33

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

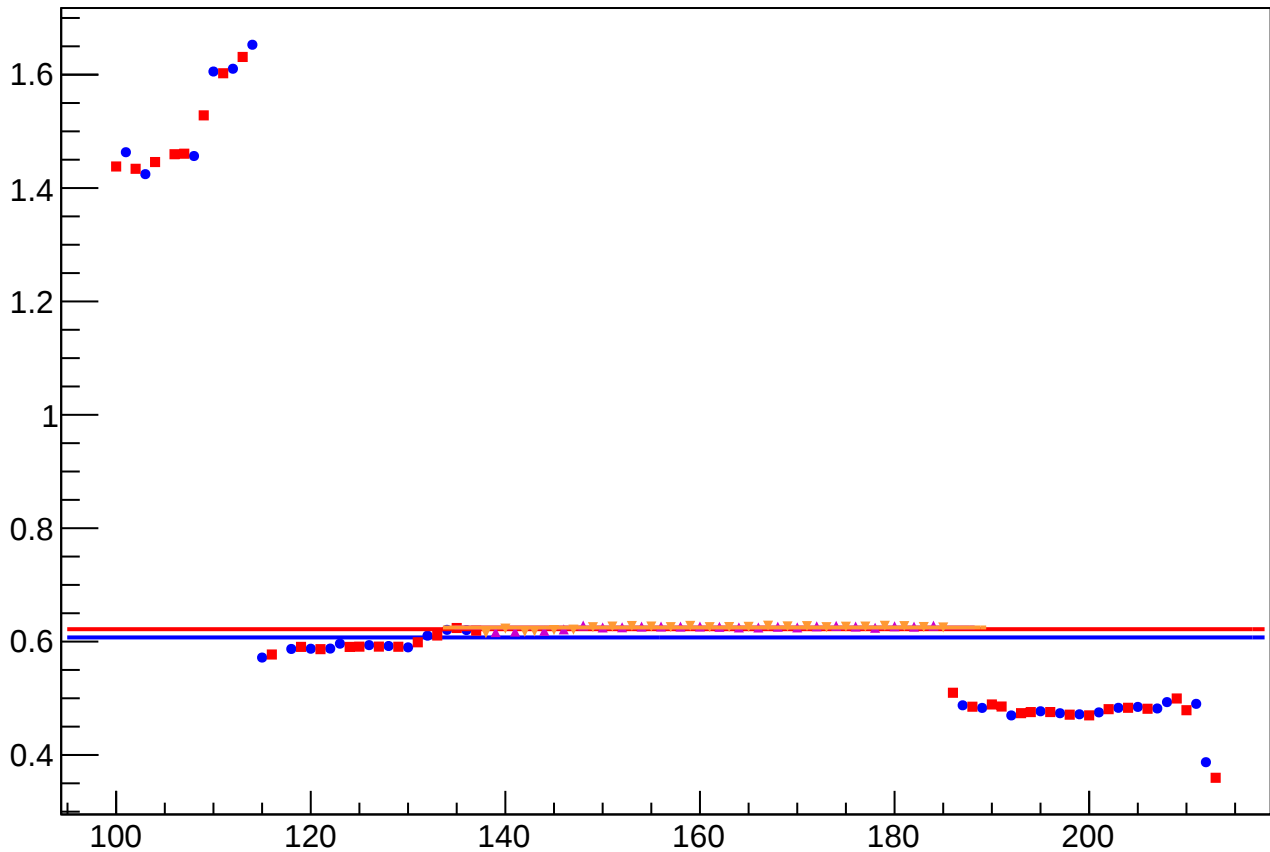
Right: 0.030+/-0.000 χ^2/NDF : 14170078.1/63

In: 0.022+/-0.000 χ^2/NDF : 9445067.5/52

Out: 0.022+/-0.000 χ^2/NDF : 10359478.9/58

All: 0.022+/-0.000 χ^2/NDF : 19805619.3/111

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.607 $\pm$ 0.000 χ^2 /NDF: 5215937736.2/29

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.622 $\pm$ 0.000 χ^2 /NDF: 6321066117.3/33

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

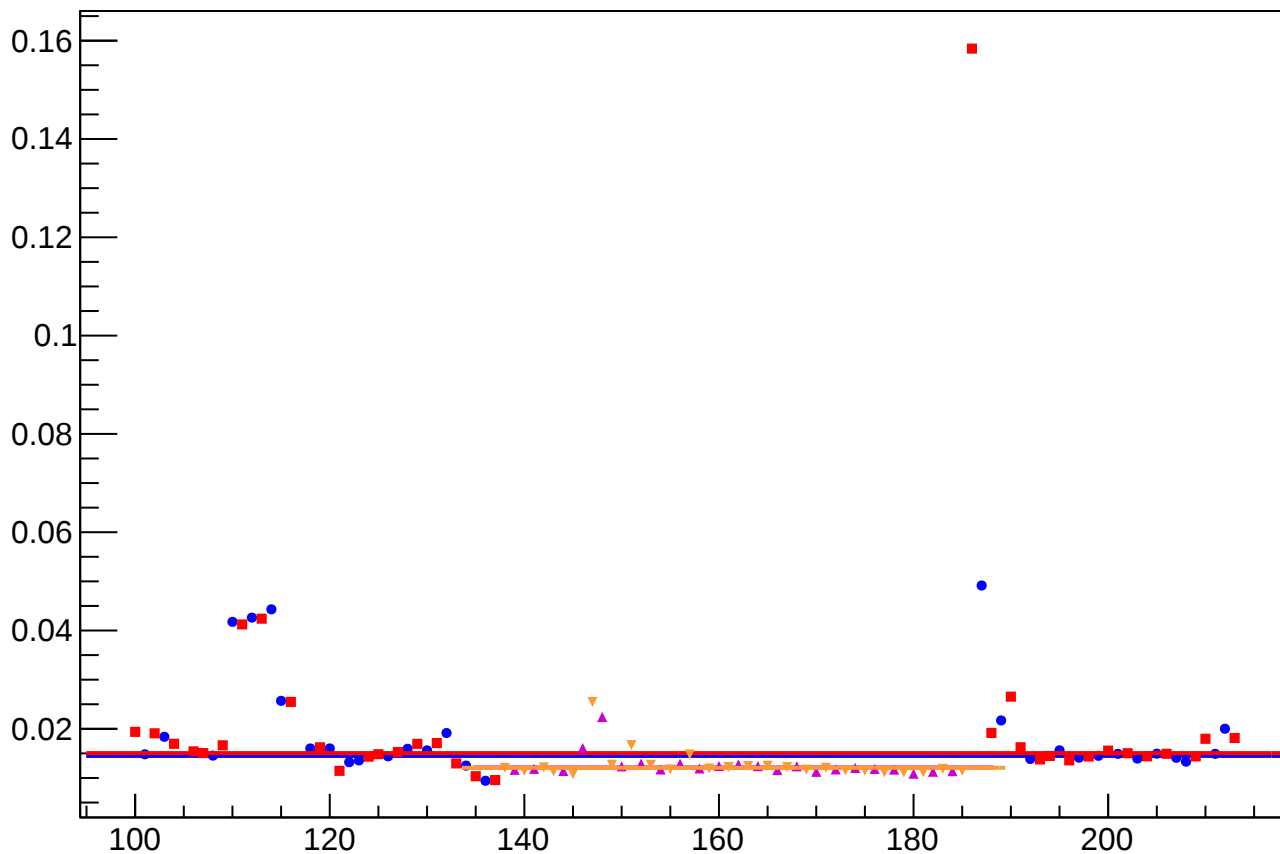
Right: 0.615 $\pm$ 0.000 χ^2 /NDF: 11544154104.7/63

In: 0.618 $\pm$ 0.000 χ^2 /NDF:5230098639.9/52

Out: 0.624 $\pm$ 0.000 χ^2 /NDF:6322905044.3/58

All: 0.621 $\pm$ 0.000 χ^2 /NDF: 11555820795.0/1

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1767596.7/29

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657433.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2156935.1/33

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

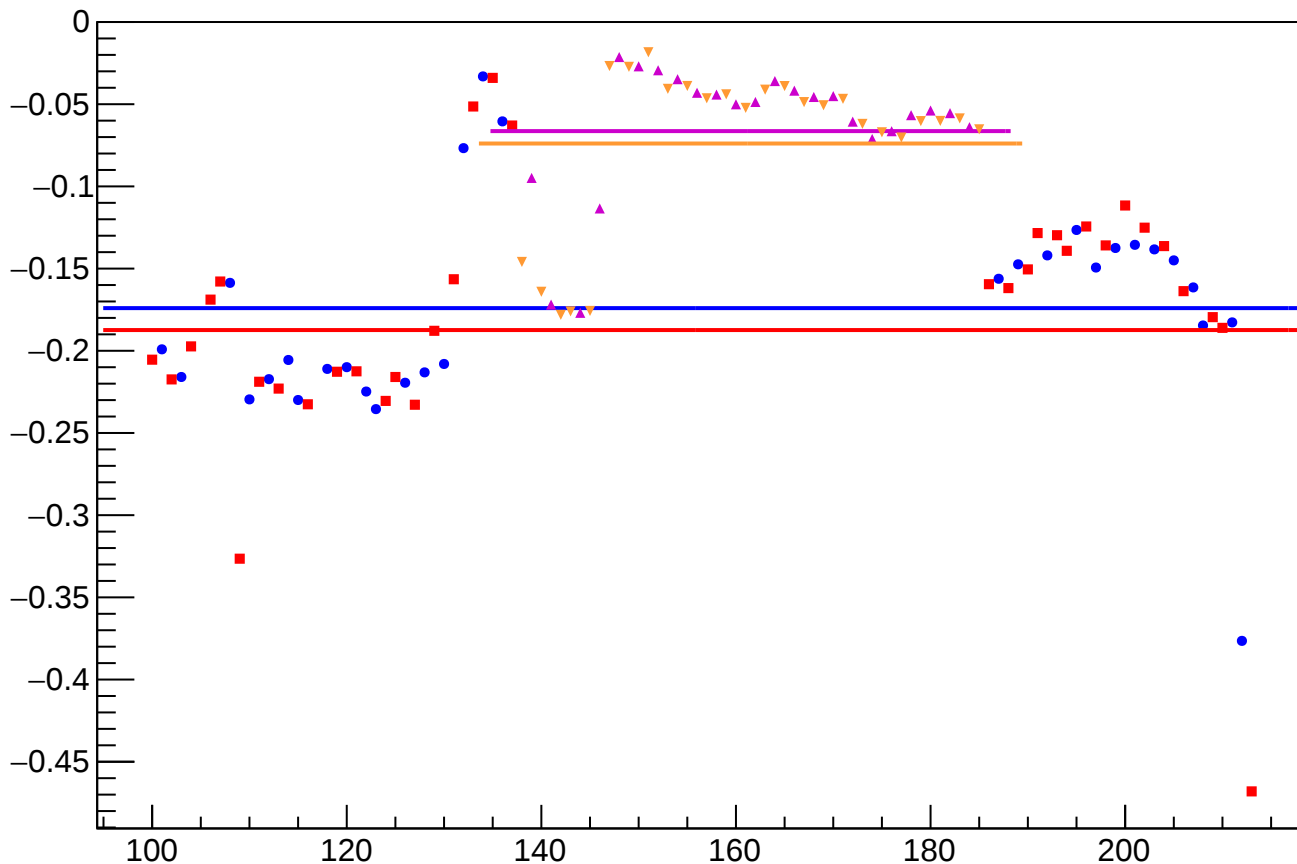
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3946755.1/63

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2728133.7/52

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3589636.7/58

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6320800.8/111

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.174+/-0.000 χ^2/NDF : 79323734.9/29

Left Out: -0.074+/-0.000 χ^2/NDF : 107858881.3/24

Right Out: -0.187+/-0.000 χ^2/NDF : 106124003.8/33

Left In: -0.066+/-0.000 χ^2/NDF : 76283954.4/22

Left: -0.070+/-0.000 χ^2/NDF : 185261776.8/47

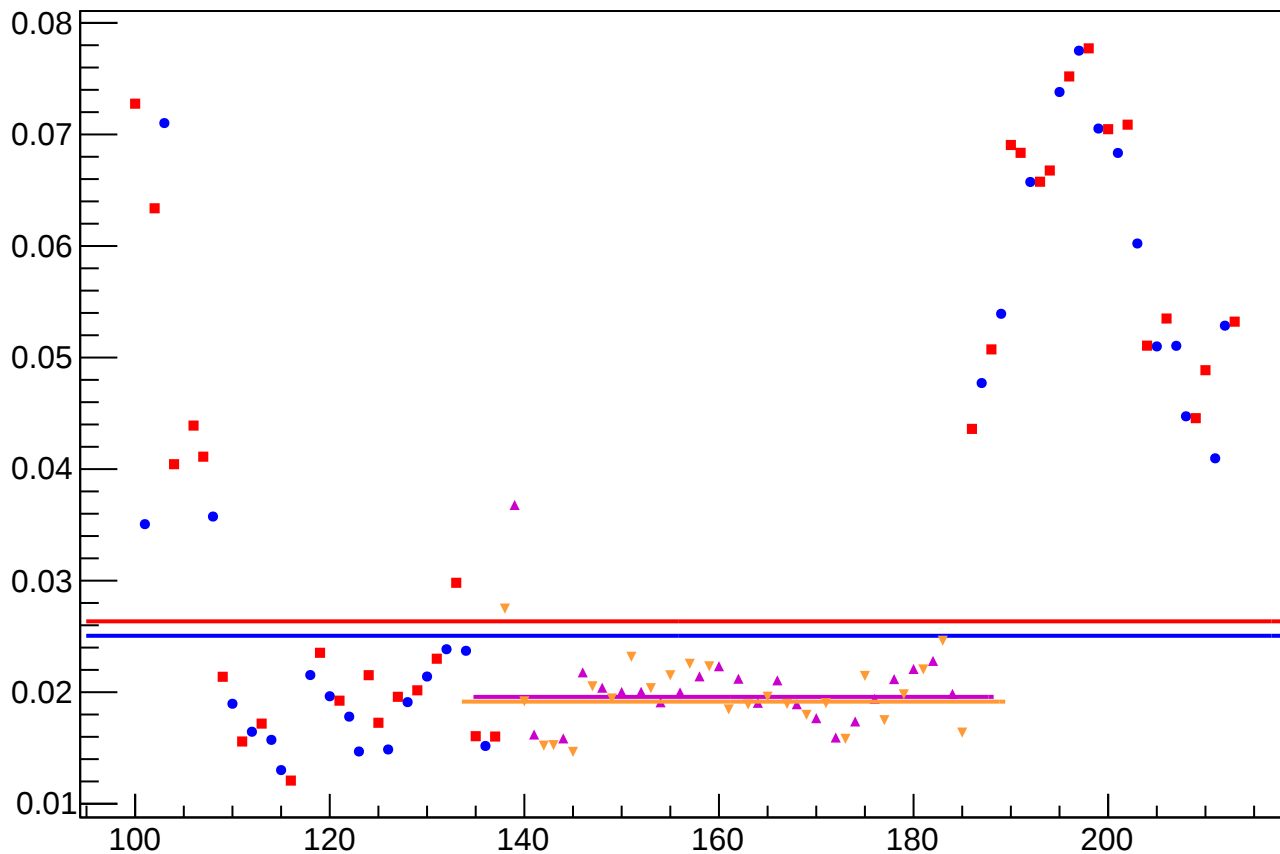
Right: -0.181+/-0.000 χ^2/NDF : 186916927.7/63

In: -0.099+/-0.000 χ^2/NDF : 289233134.1/52

Out: -0.106+/-0.000 χ^2/NDF : 364836443.7/58

All: -0.103+/-0.000 χ^2/NDF : 655313196.9/11

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.025 $\pm$ 0.000 χ^2 /NDF: 8129917.4/29

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 641027.3/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 8765518.7/33

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF: 651328.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1299461.3/47

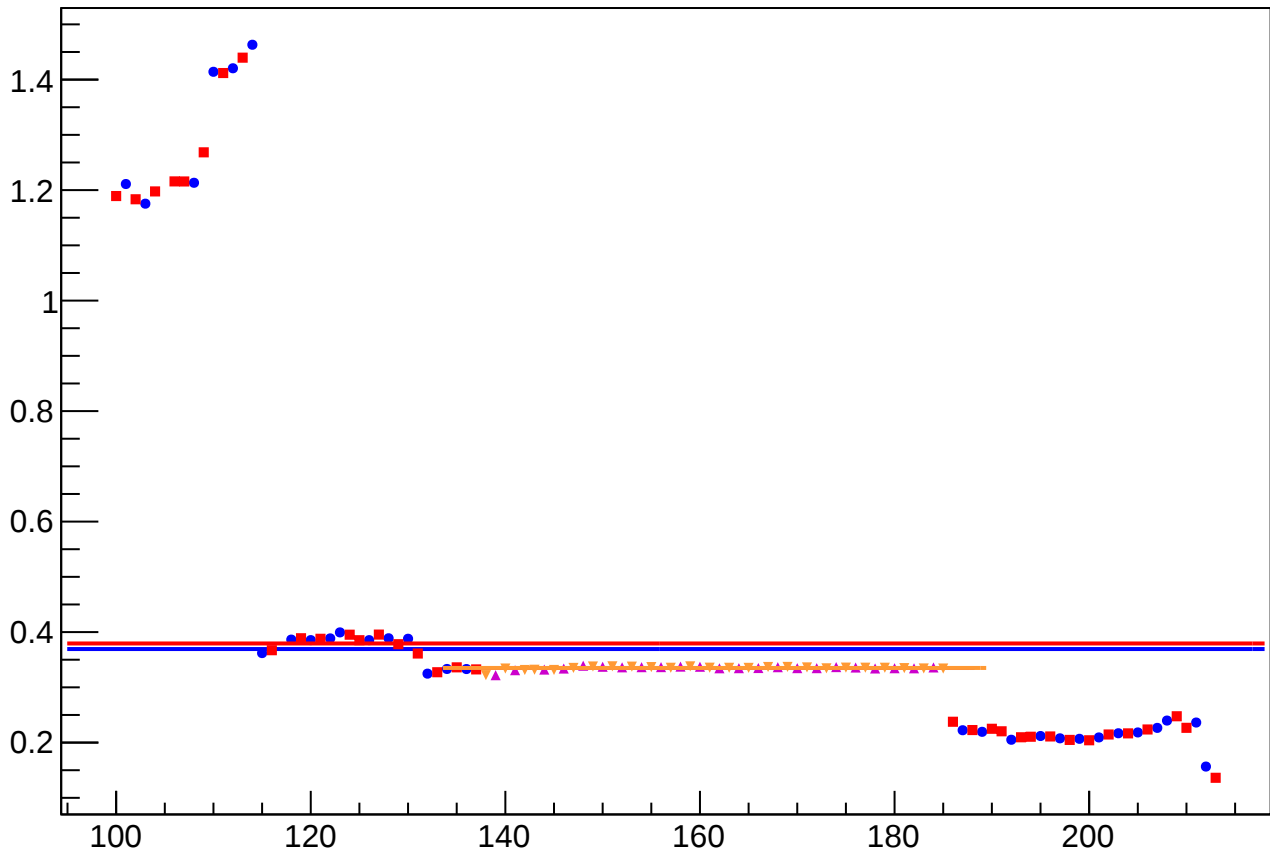
Right: 0.026 $\pm$ 0.000 χ^2 /NDF: 16923110.0/63

In: 0.021 $\pm$ 0.000 χ^2 /NDF: 9472729.7/52

Out: 0.021 $\pm$ 0.000 χ^2 /NDF: 10620452.4/58

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 20093415.7/111

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.369+/-0.000 χ^2/NDF : 7661328146.7/29

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.379+/-0.000 χ^2/NDF : 8819291176.3/33

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

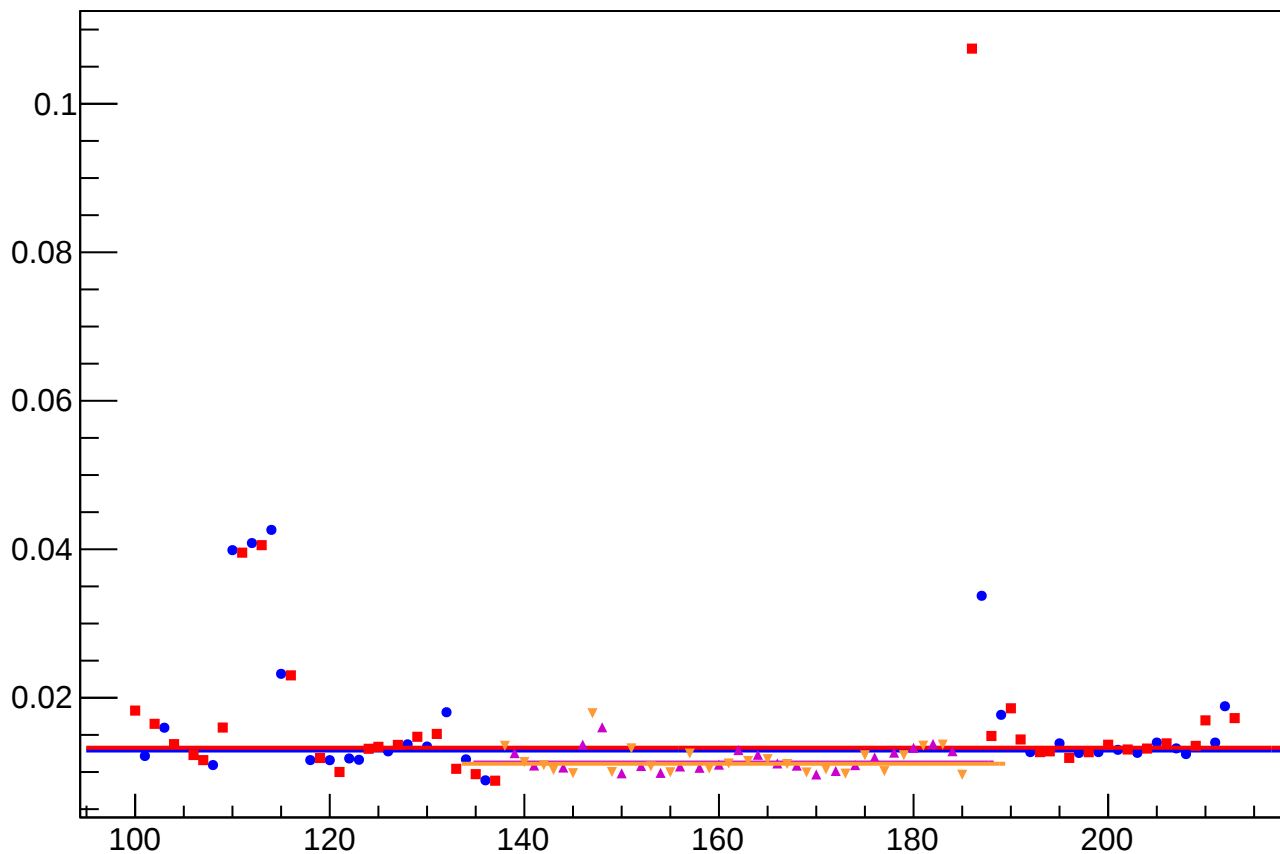
Right: 0.374+/-0.000 χ^2/NDF : 16485006069.6/63

In: 0.349+/-0.000 χ^2/NDF :7723555033.6/52

Out: 0.352+/-0.000 χ^2/NDF :8925959533.4/58

All: 0.350+/-0.000 χ^2/NDF : 16650721828.9/111

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1684979.9/29

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2089755.1/33

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

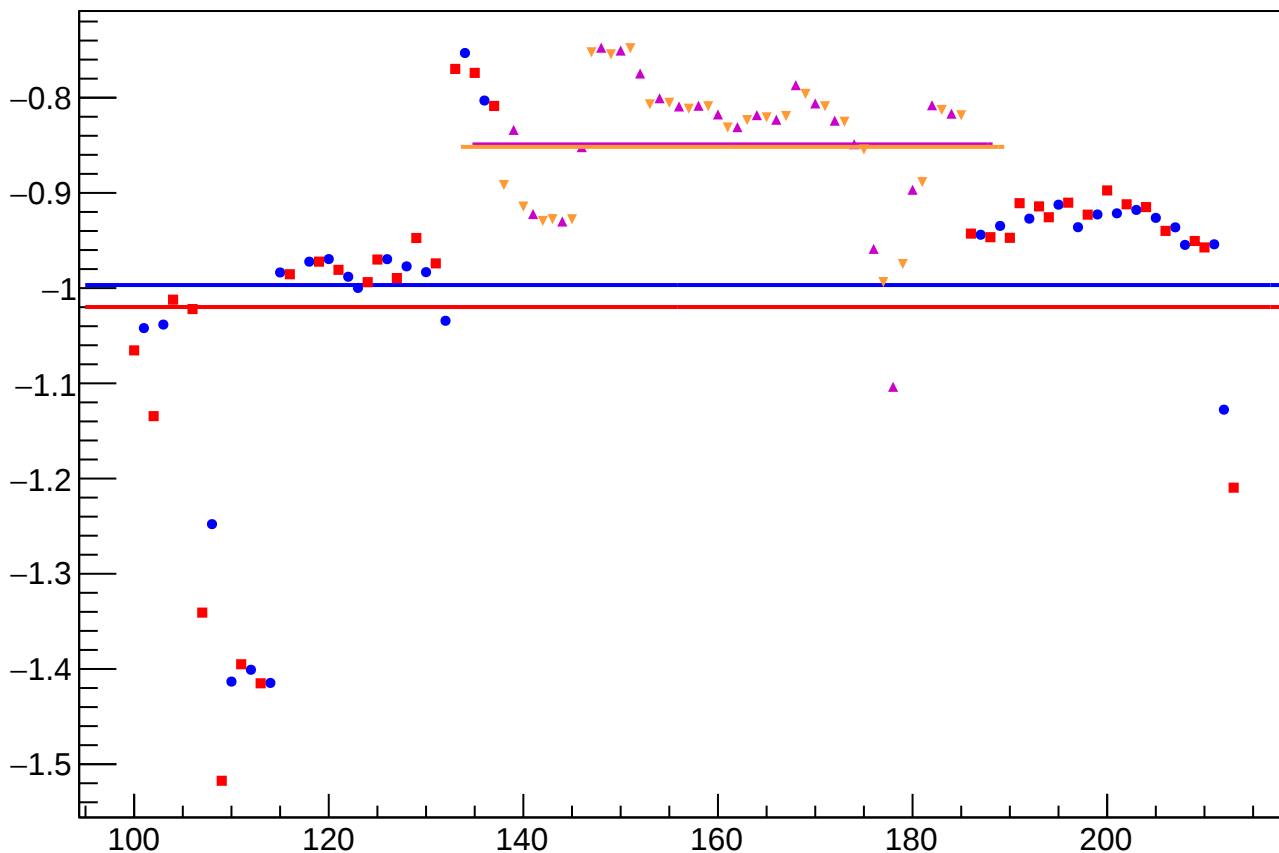
Right: 0.013+/-0.000 χ^2/NDF : 3787024.3/63

In: 0.012+/-0.000 χ^2/NDF : 2460274.4/52

Out: 0.012+/-0.000 χ^2/NDF : 3198776.9/58

All: 0.012+/-0.000 χ^2/NDF : 5659118.0/111

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.997 ± 0.000 $\chi^2/\text{NDF}: 408676458.0/29$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189276591.7/24$

Right Out: -1.020 ± 0.000 $\chi^2/\text{NDF}: 567656432.7/33$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256438306.8/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445849768.4/47$

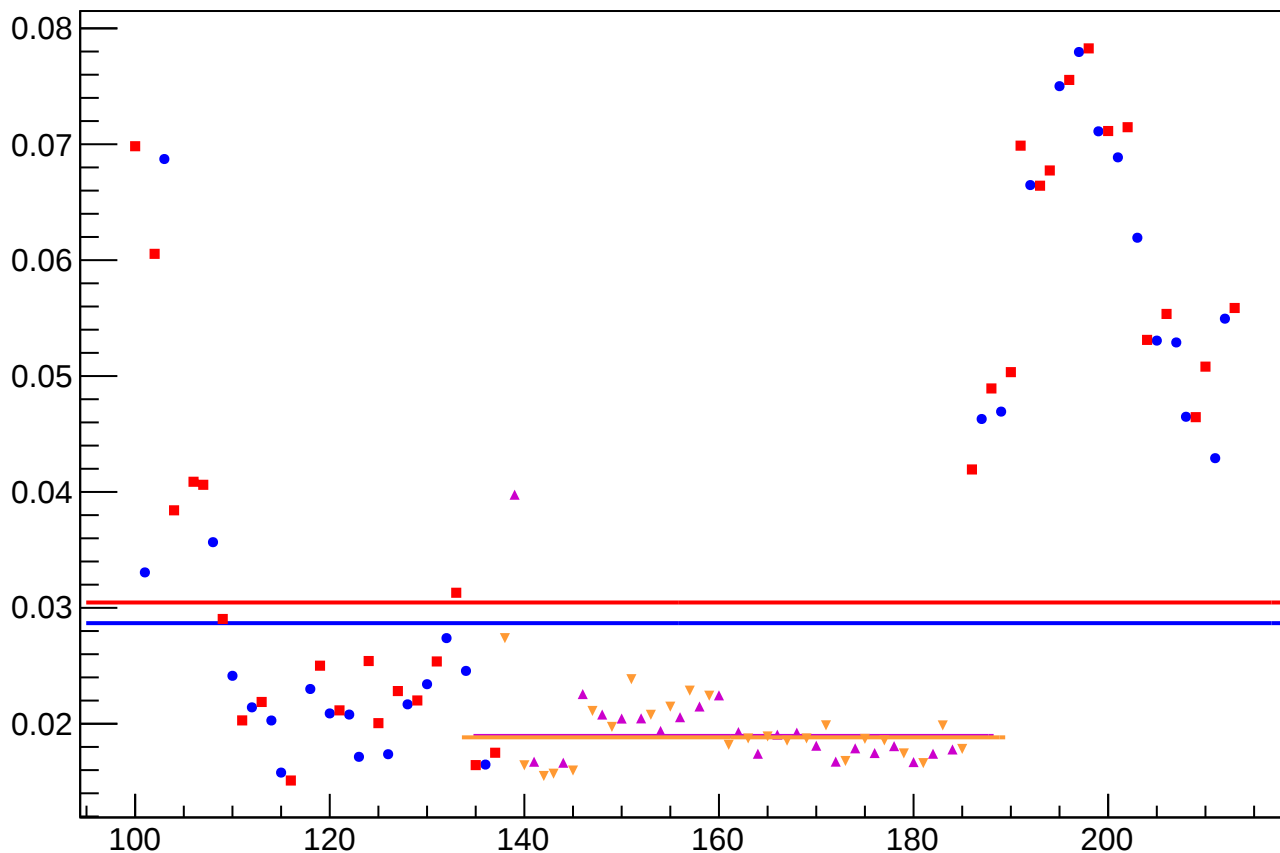
Right: -1.008 ± 0.000 $\chi^2/\text{NDF}: 979864294.8/63$

In: -0.887 ± 0.000 $\chi^2/\text{NDF}: 883372286.4/52$

Out: -0.892 ± 0.000 $\chi^2/\text{NDF}: 1039529619.2/58$

All: -0.889 ± 0.000 $\chi^2/\text{NDF}: 1923545953.6/1$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 6887604.3/29

Left Out: 0.019+/-0.000 χ^2/NDF :490084.5/24

Right Out: 0.030+/-0.000 χ^2/NDF : 7106194.8/33

Left In: 0.019+/-0.000 χ^2/NDF :645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

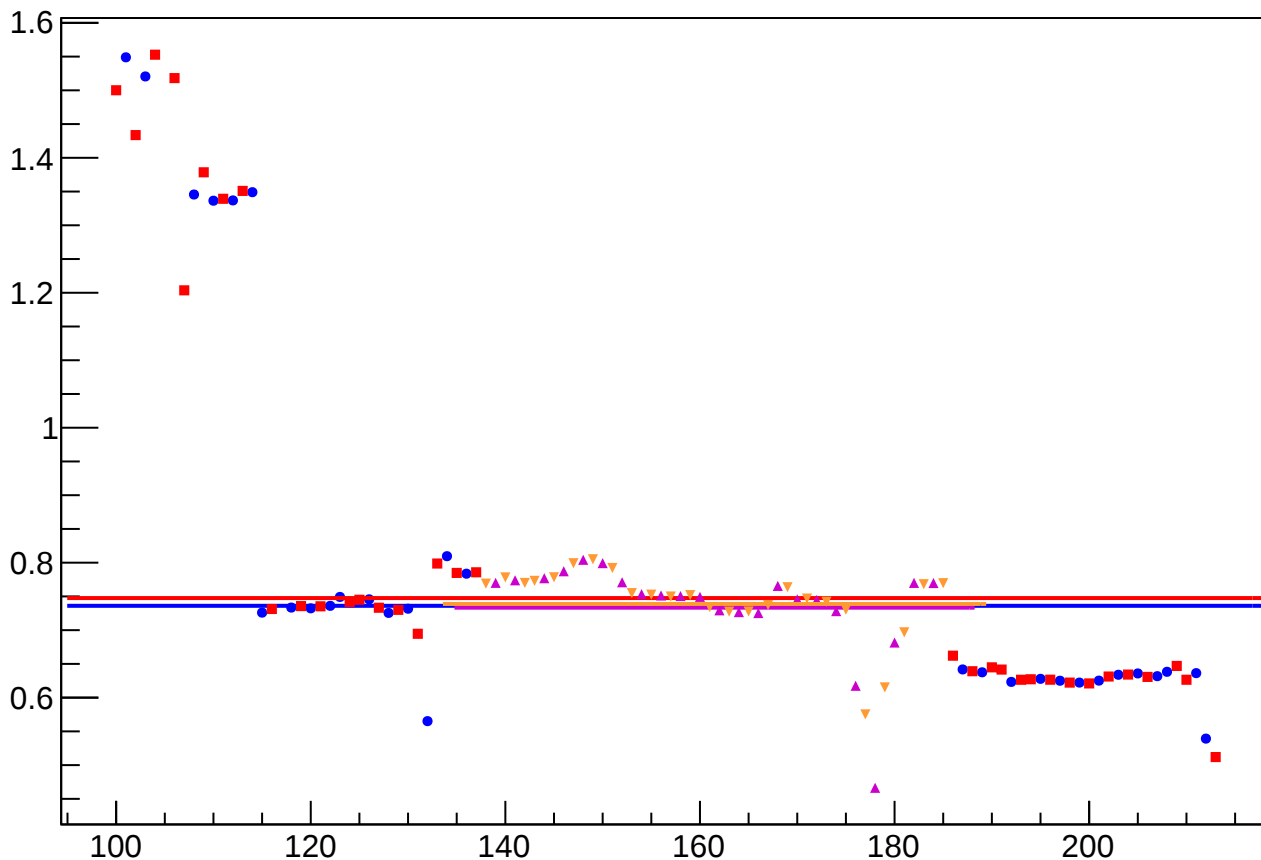
Right: 0.030+/-0.000 χ^2/NDF : 14035973.3/63

In: 0.021+/-0.000 χ^2/NDF :9427155.8/52

Out: 0.022+/-0.000 χ^2/NDF :10301096.1/58

All: 0.022+/-0.000 χ^2/NDF : 19729672.3/111

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.736+/-0.000 χ^2/NDF : 3590696188.5/29

Left Out: 0.739+/-0.000 χ^2/NDF :333086309.0/24

Right Out: 0.748+/-0.000 χ^2/NDF : 3969186180.7/33

Left In: 0.733+/-0.000 χ^2/NDF :570264411.7/22

Left: 0.736+/-0.000 χ^2/NDF : 905100069.4/47

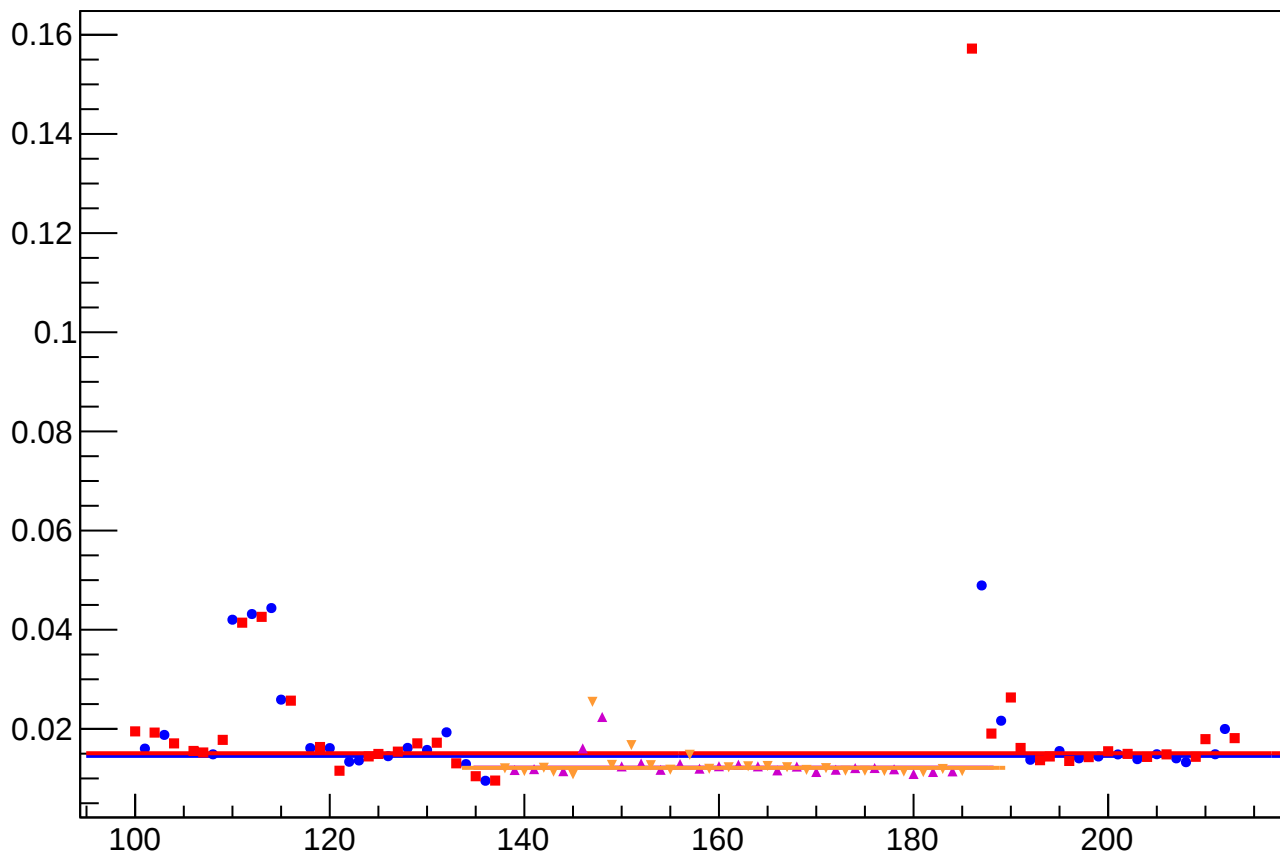
Right: 0.742+/-0.000 χ^2/NDF : 7564310387.9/63

In: 0.734+/-0.000 χ^2/NDF :4161281466.7/52

Out: 0.742+/-0.000 χ^2/NDF :4305569748.1/58

All: 0.738+/-0.000 χ^2/NDF : 8472156199.6/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1765865.0/29

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2159488.4/33

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

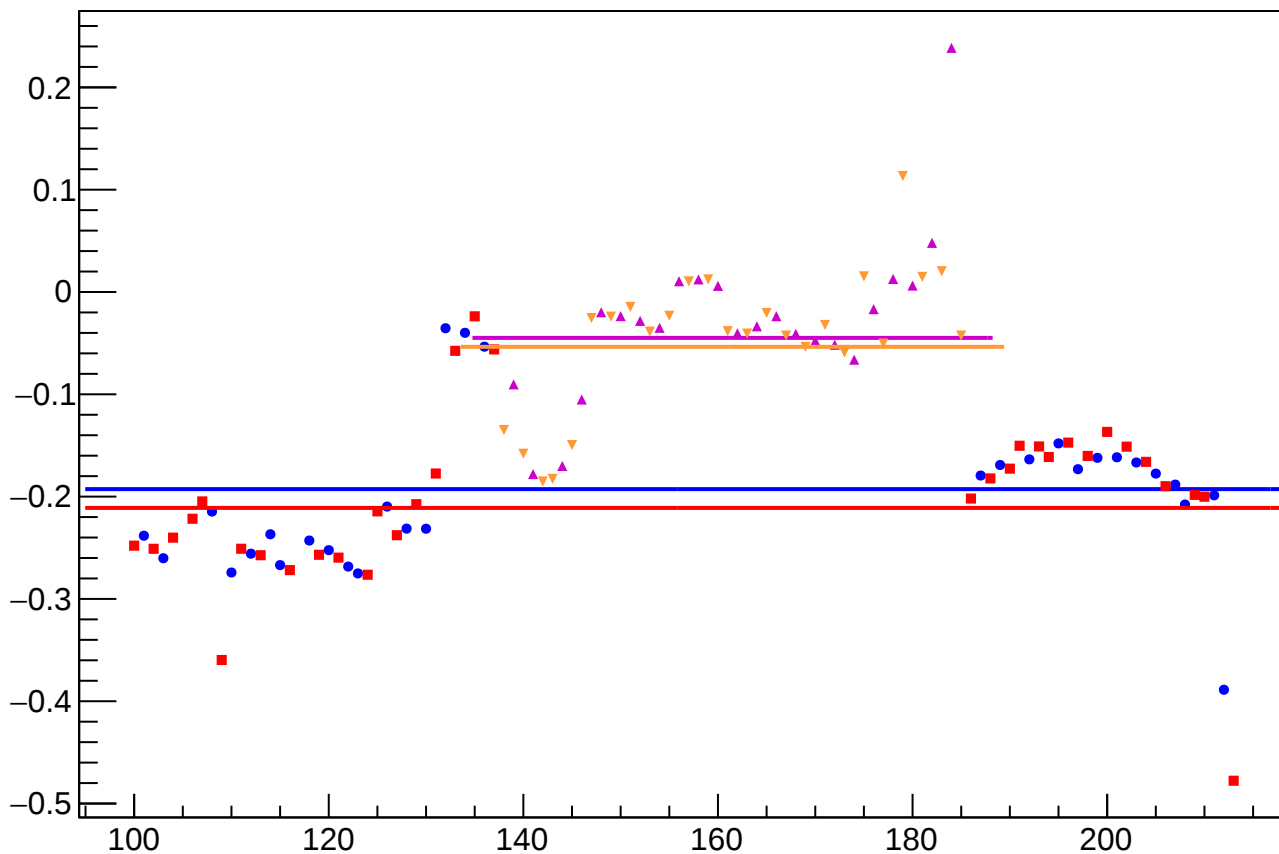
Right: 0.015+/-0.000 χ^2/NDF : 3944395.0/63

In: 0.013+/-0.000 χ^2/NDF : 2718481.6/52

Out: 0.013+/-0.000 χ^2/NDF : 3543944.7/58

All: 0.013+/-0.000 χ^2/NDF : 6265454.5/111

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.193 ± 0.000 χ^2/NDF : 116898858.1/29

Left Out: -0.054 ± 0.000 χ^2/NDF : 167879648.0/24

Right Out: -0.211 ± 0.000 χ^2/NDF : 131634957.6/33

Left In: -0.045 ± 0.000 χ^2/NDF : 127324000.1/22

Left: -0.049 ± 0.000 χ^2/NDF : 296677486.5/47

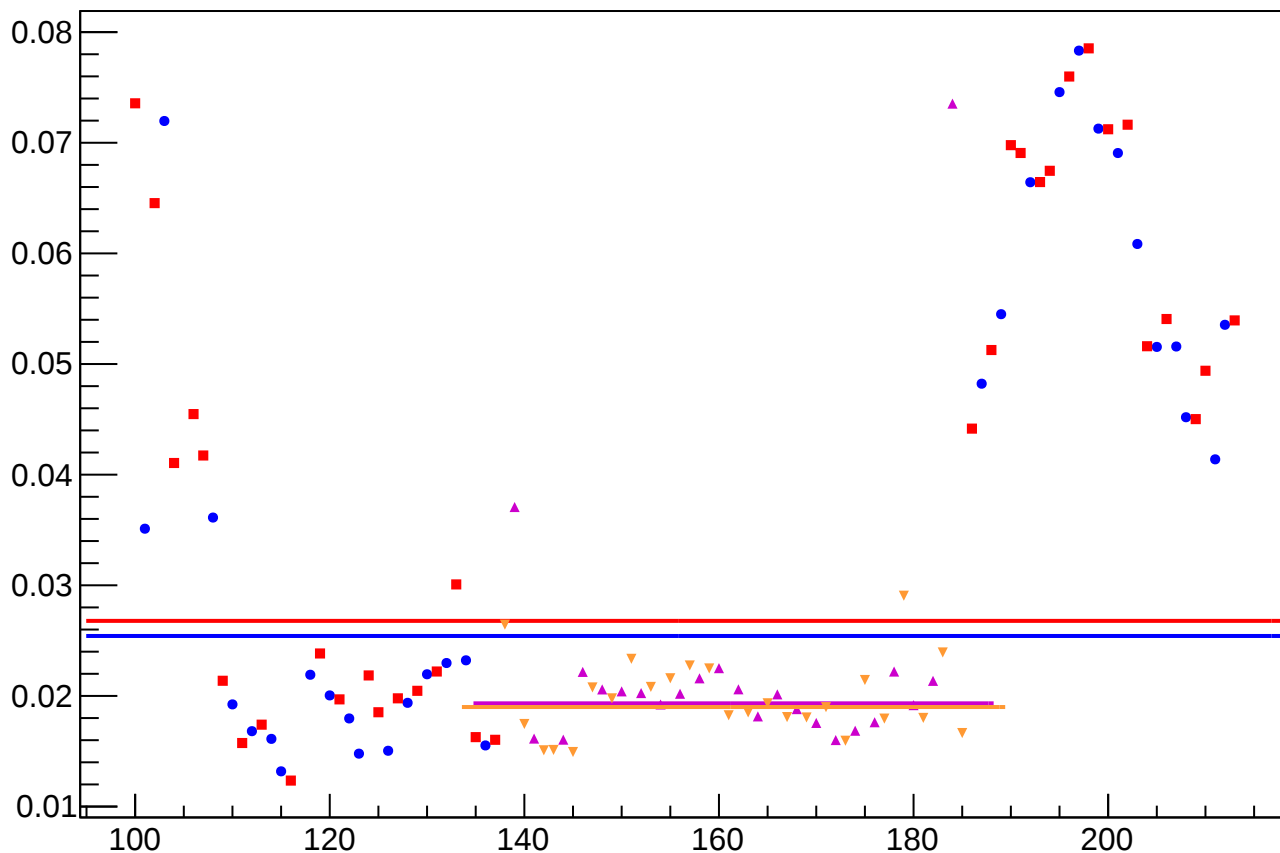
Right: -0.202 ± 0.000 χ^2/NDF : 251228890.0/63

In: -0.090 ± 0.000 χ^2/NDF : 491171882.5/52

Out: -0.098 ± 0.000 χ^2/NDF : 582304705.5/58

All: -0.094 ± 0.000 χ^2/NDF : 1075322842.4/111

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.025 $\pm$ 0.000 χ^2 /NDF: 8070004.8/29

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 699267.5/24

Right Out: 0.027 $\pm$ 0.000 χ^2 /NDF: 8707487.4/33

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

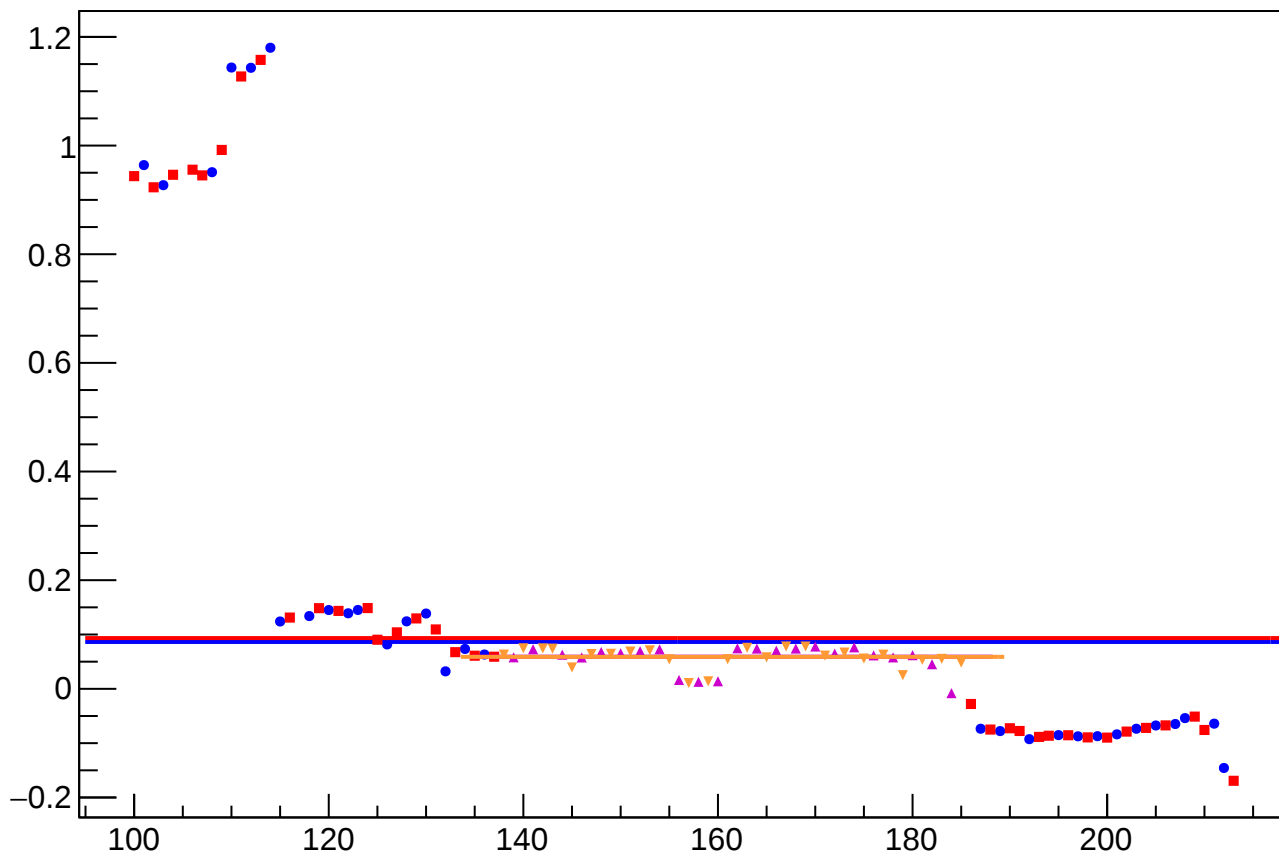
Right: 0.026 $\pm$ 0.000 χ^2 /NDF: 16807360.8/63

In: 0.021 $\pm$ 0.000 χ^2 /NDF: 9800833.0/52

Out: 0.021 $\pm$ 0.000 χ^2 /NDF: 10790298.3/58

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 20591138.4/111

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.086 $\pm$ 0.000 χ^2 /NDF: 8310578231.0/29

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46902918.4/24

Right Out: 0.093 $\pm$ 0.000 χ^2 /NDF: 9346648717.7/33

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58640898.5/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105549886.8/47

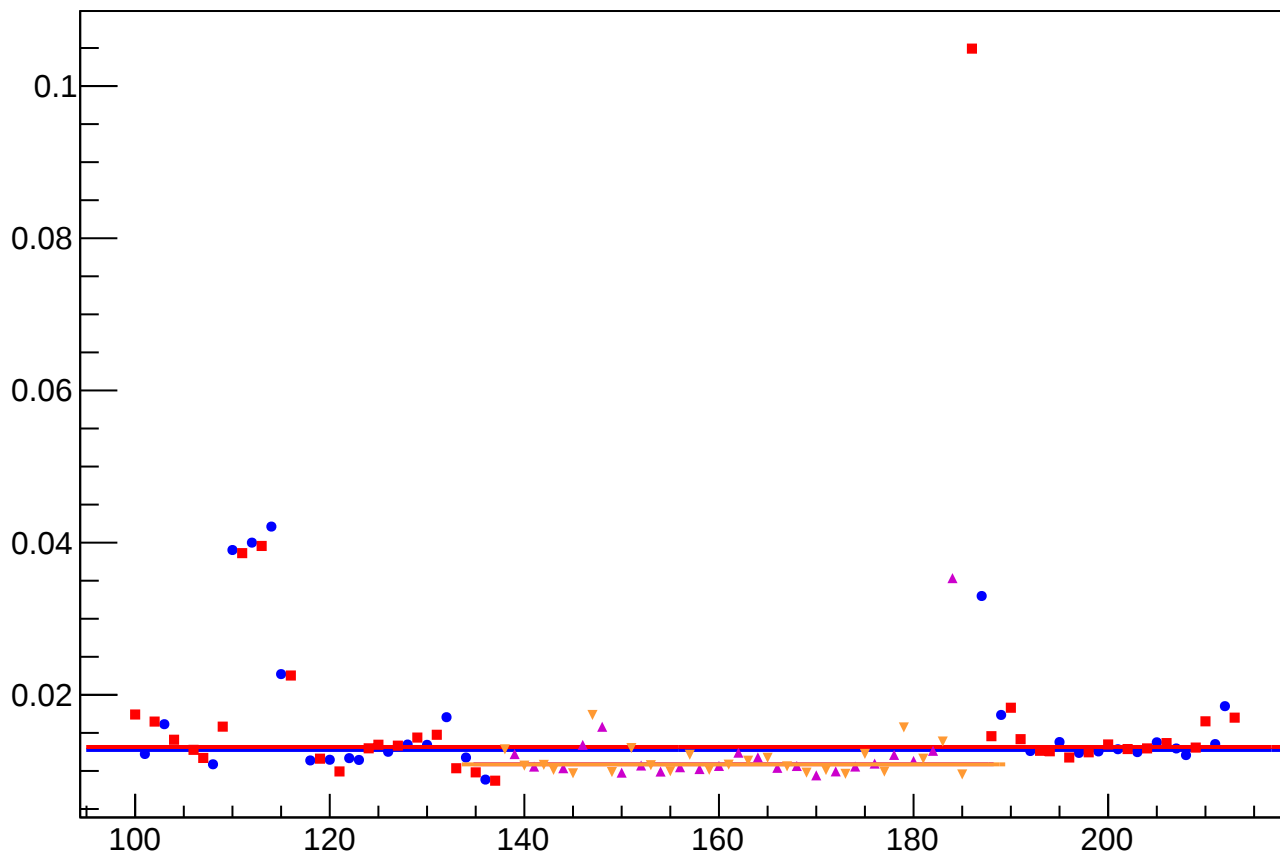
Right: 0.090 $\pm$ 0.000 χ^2 /NDF: 17659459266.6/63

In: 0.070 $\pm$ 0.000 χ^2 /NDF: 8408528761.1/52

Out: 0.072 $\pm$ 0.000 χ^2 /NDF: 9458829749.2/58

All: 0.071 $\pm$ 0.000 χ^2 /NDF: 17867925202.8/112

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1641294.6/29

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2034015.4/33

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

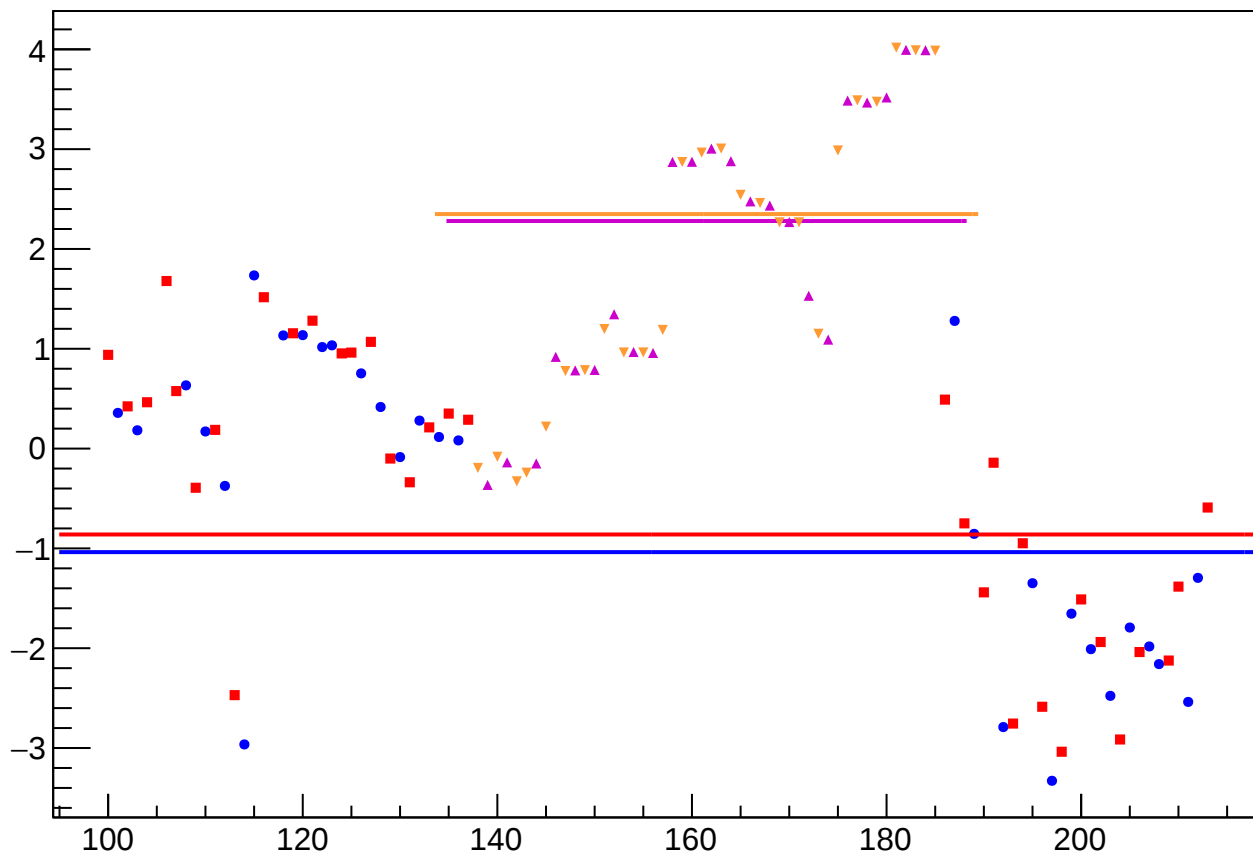
Right: 0.013+/-0.000 χ^2/NDF : 3688523.2/63

In: 0.012+/-0.000 χ^2/NDF : 2544517.4/52

Out: 0.012+/-0.000 χ^2/NDF : 3210449.8/58

All: 0.012+/-0.000 χ^2/NDF : 5757719.6/111

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -1.037 $\pm$ 0.000 χ^2 /NDF: 7726546838.6/29

Left Out: 2.349 $\pm$ 0.000 χ^2 /NDF: 63600066268.3/24

Right Out: -0.861 $\pm$ 0.000 χ^2 /NDF: 8174005805.3/33

Left In: 2.280 $\pm$ 0.000 χ^2 /NDF: 61444254541.3/22

Left: 2.314 $\pm$ 0.000 χ^2 /NDF: 125168787170.9/47

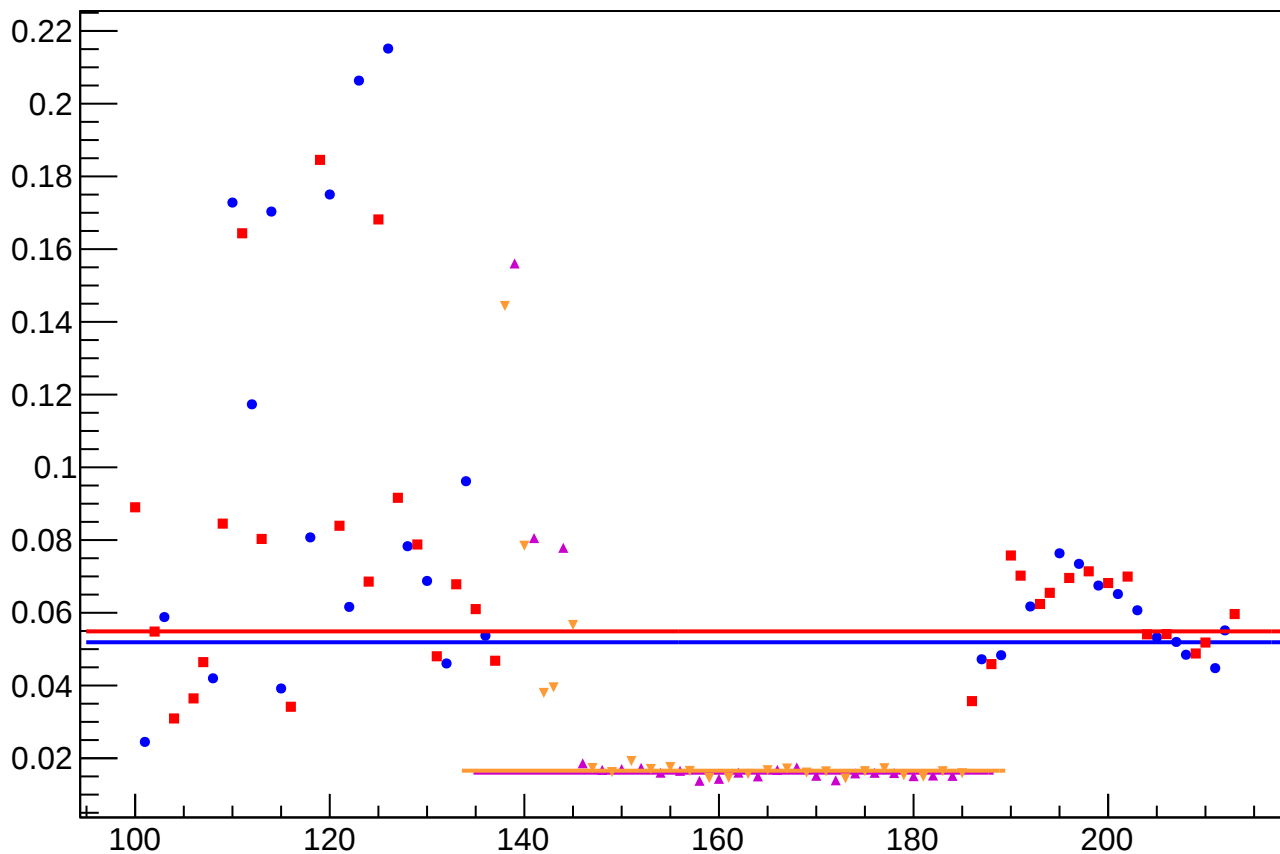
Right: -0.949 $\pm$ 0.000 χ^2 /NDF: 15969780347.9/63

In: 2.021 $\pm$ 0.000 χ^2 /NDF: 114047262535.9/52

Out: 2.093 $\pm$ 0.000 χ^2 /NDF: 113882891553.8/58

All: 2.057 $\pm$ 0.000 χ^2 /NDF: 228075035813.5

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3509871.3/29

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2874153.3/33

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

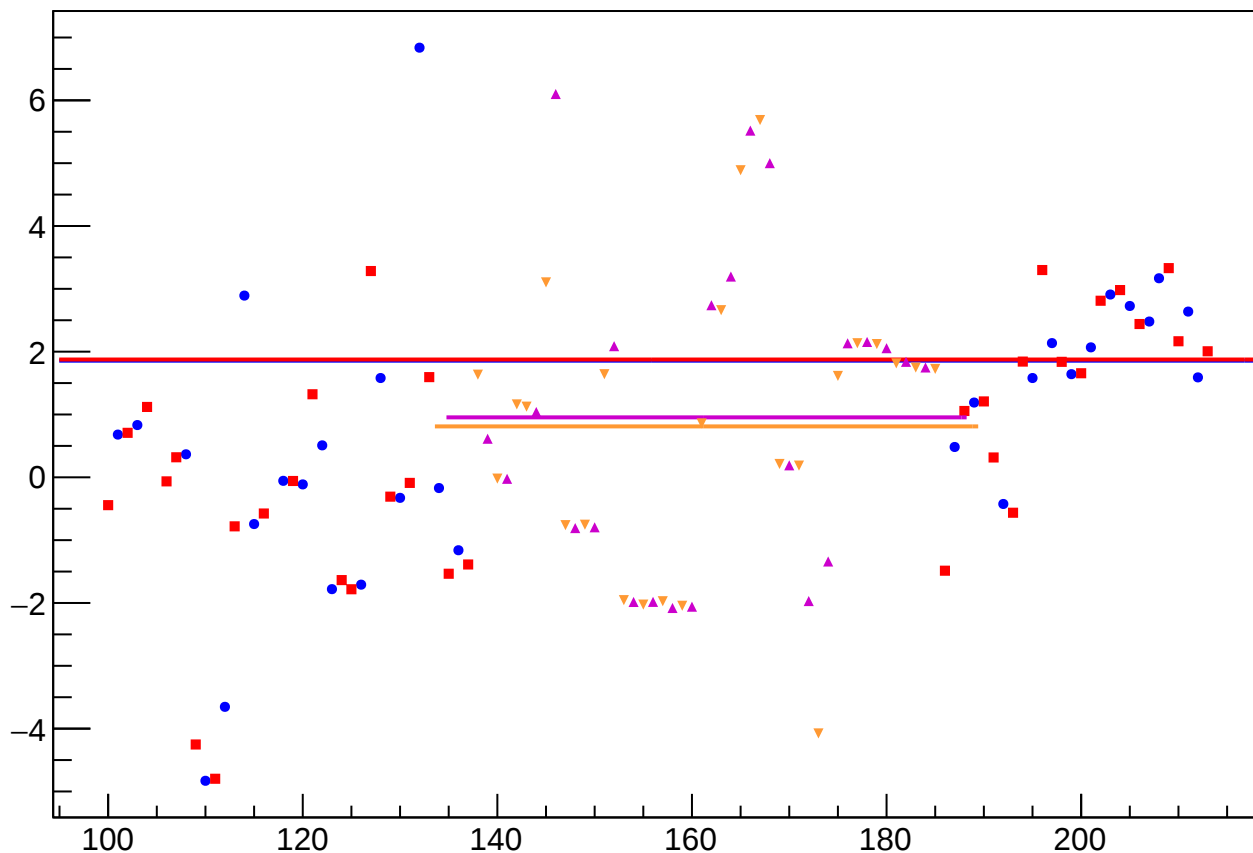
Right: 0.053+/-0.000 χ^2/NDF : 6423679.2/63

In: 0.019+/-0.000 χ^2/NDF : 16463992.6/52

Out: 0.020+/-0.000 χ^2/NDF : 17493203.0/58

All: 0.019+/-0.000 χ^2/NDF : 33993704.9/111

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.857+/-0.000

χ^2/NDF : 38533879083.4/29

Left: 0.883+/-0.000 χ^2/NDF : 1083260277372.9/47

Right: 1.866+/-0.000 χ^2/NDF : 78069579616.7/63

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

In: 1.176+/-0.000 χ^2/NDF : 630461857724.5/52

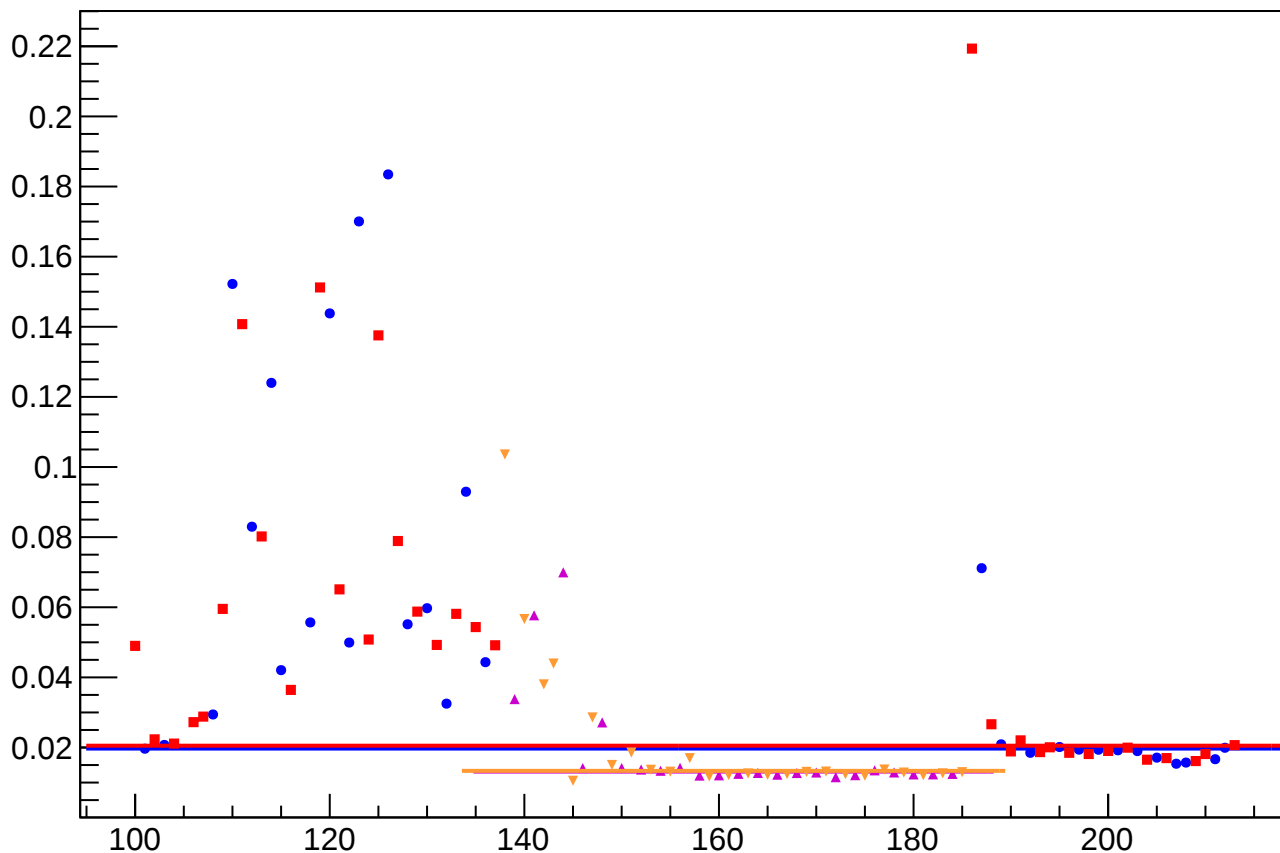
Right Out: 1.875+/-0.000 χ^2/NDF : 39531034115.6/33

Out: 1.072+/-0.000 χ^2/NDF : 570812421831.9/58

Left In: 0.954+/-0.000 χ^2/NDF : 574792794608.3/22

All: 1.124+/-0.000 χ^2/NDF : 1201887312043.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4113121.0/29

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5167525.6/33

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

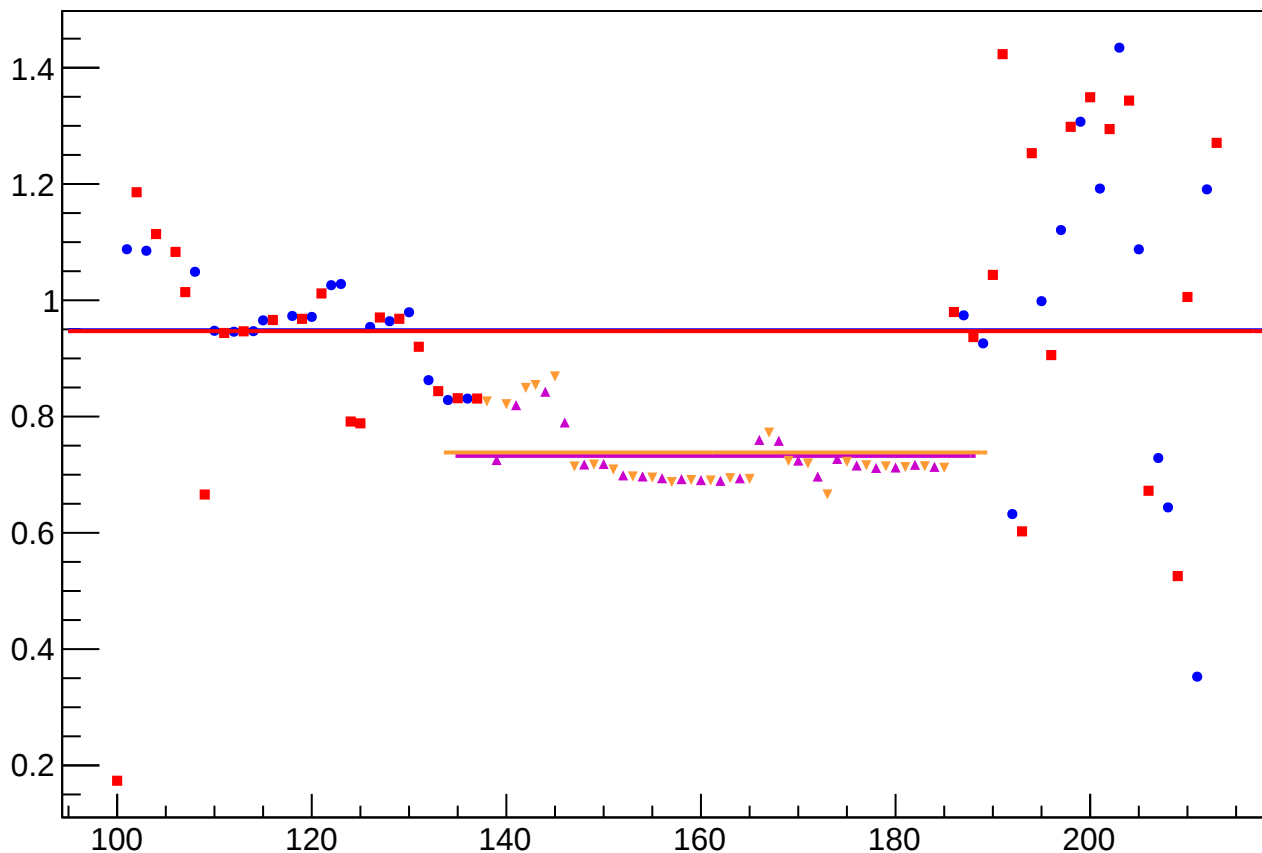
Right: 0.020+/-0.000 χ^2/NDF : 9299224.1/63

In: 0.015+/-0.000 χ^2/NDF :7894760.1/52

Out: 0.015+/-0.000 χ^2/NDF :10149868.6/58

All: 0.015+/-0.000 χ^2/NDF : 18058964.5/111

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.948 $\pm$ 0.000 χ^2 /NDF: 910983712.8/29

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF: 310610047.7/24

Right Out: 0.947 $\pm$ 0.000 χ^2 /NDF: 1201149116.4/33

Left In: 0.732 $\pm$ 0.000 χ^2 /NDF: 170806298.1/22

Left: 0.735 $\pm$ 0.000 χ^2 /NDF: 482865670.9/47

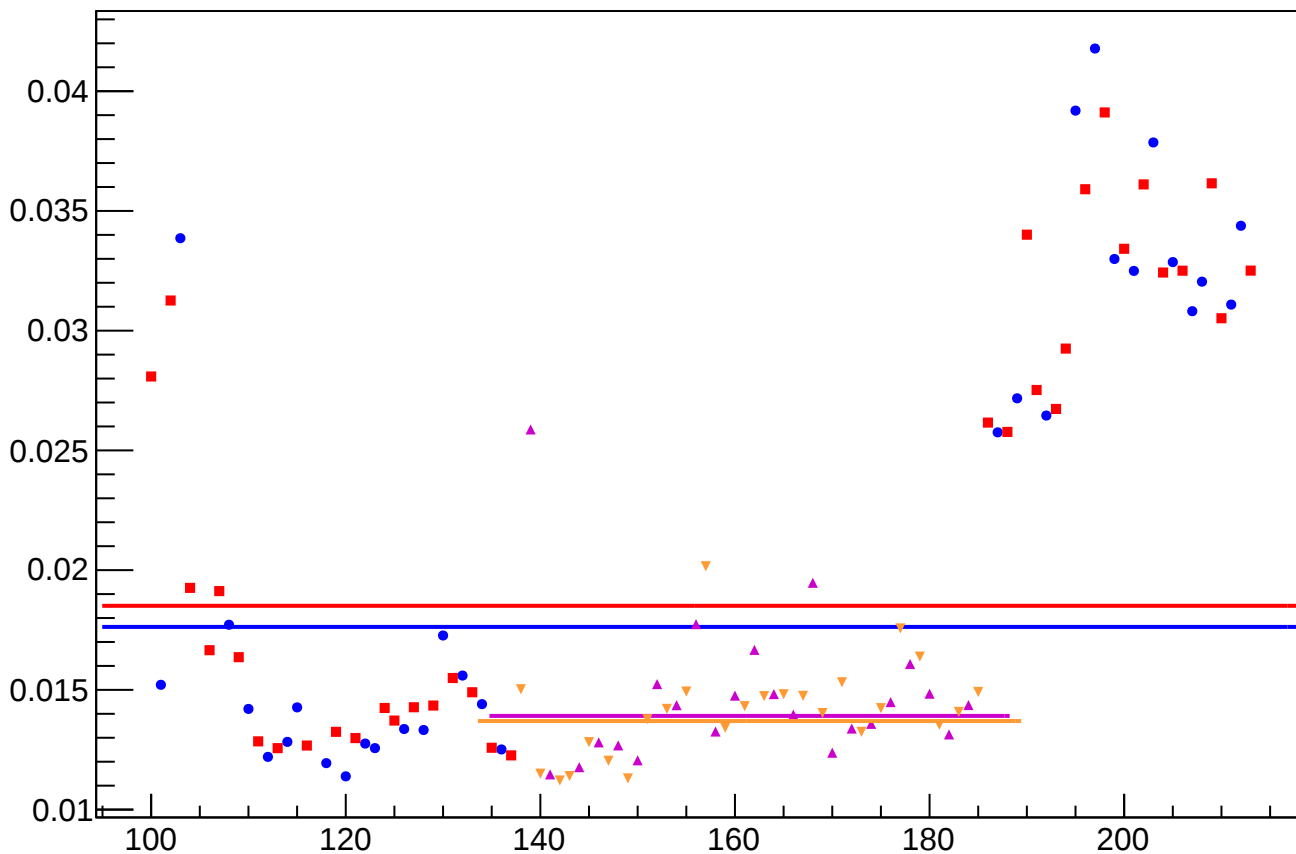
Right: 0.948 $\pm$ 0.000 χ^2 /NDF: 2112180311.7/63

In: 0.802 $\pm$ 0.000 χ^2 /NDF: 2295351866.1/52

Out: 0.803 $\pm$ 0.000 χ^2 /NDF: 2679614387.6/58

All: 0.803 $\pm$ 0.000 χ^2 /NDF: 4975001847.6/110

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2 /NDF: 5131593.0/29

Left Out: 0.014 $\pm$ 0.000 χ^2 /NDF:530851.9/24

Right Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 4797104.4/33

Left In: 0.014 $\pm$ 0.000 χ^2 /NDF:794558.0/22

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 1329255.3/47

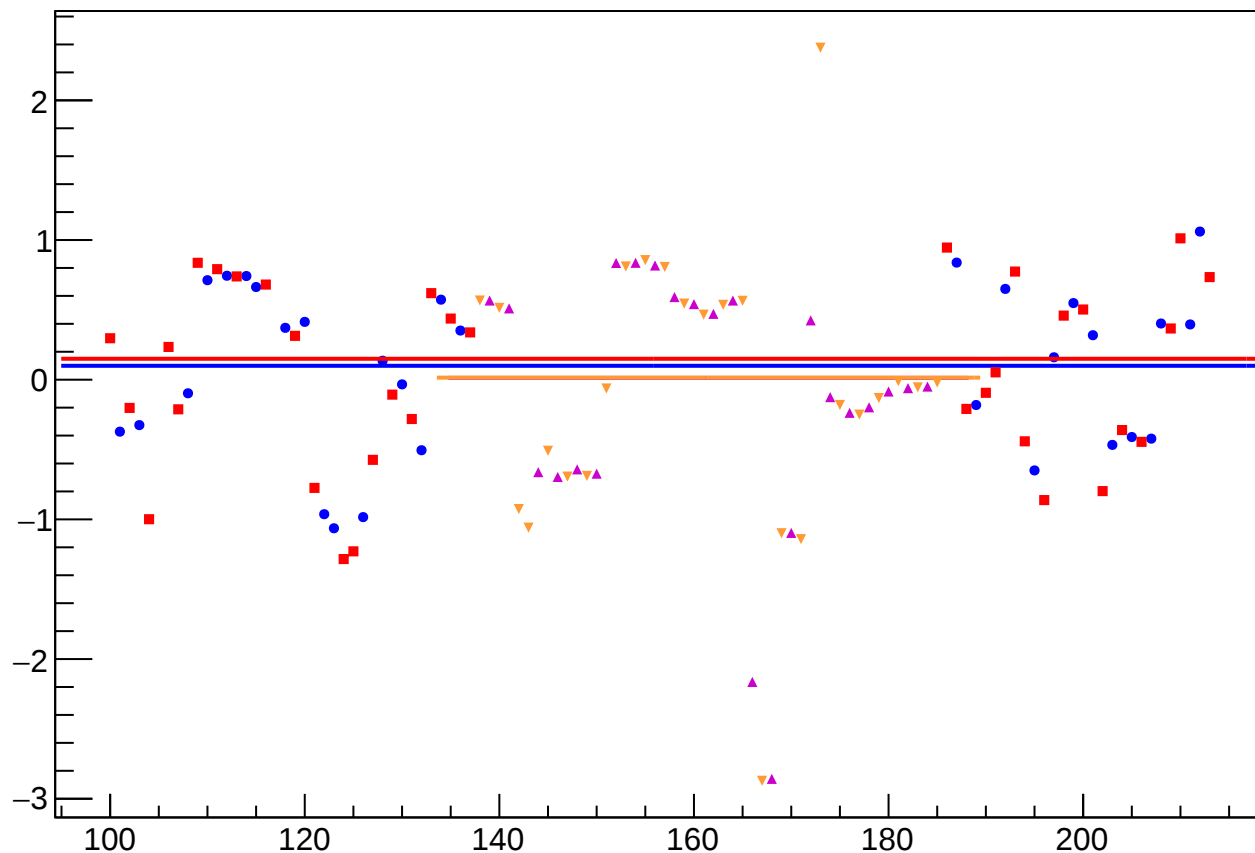
Right: 0.018 $\pm$ 0.000 χ^2 /NDF: 9958678.0/63

In: 0.015 $\pm$ 0.000 χ^2 /NDF:6643709.0/52

Out: 0.015 $\pm$ 0.000 χ^2 /NDF:6570092.2/58

All: 0.015 $\pm$ 0.000 χ^2 /NDF: 13214515.7/111

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.100+/-0.000

χ^2/NDF : 28085881555.1/29

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

Right Out: 0.150+/-0.000

χ^2/NDF : 40756258999.6/33

Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000

χ^2/NDF : 175533691121.4/47

Right: 0.125+/-0.000

χ^2/NDF : 68967064270.5/63

In: 0.054+/-0.000

χ^2/NDF : 107909491728.9/52

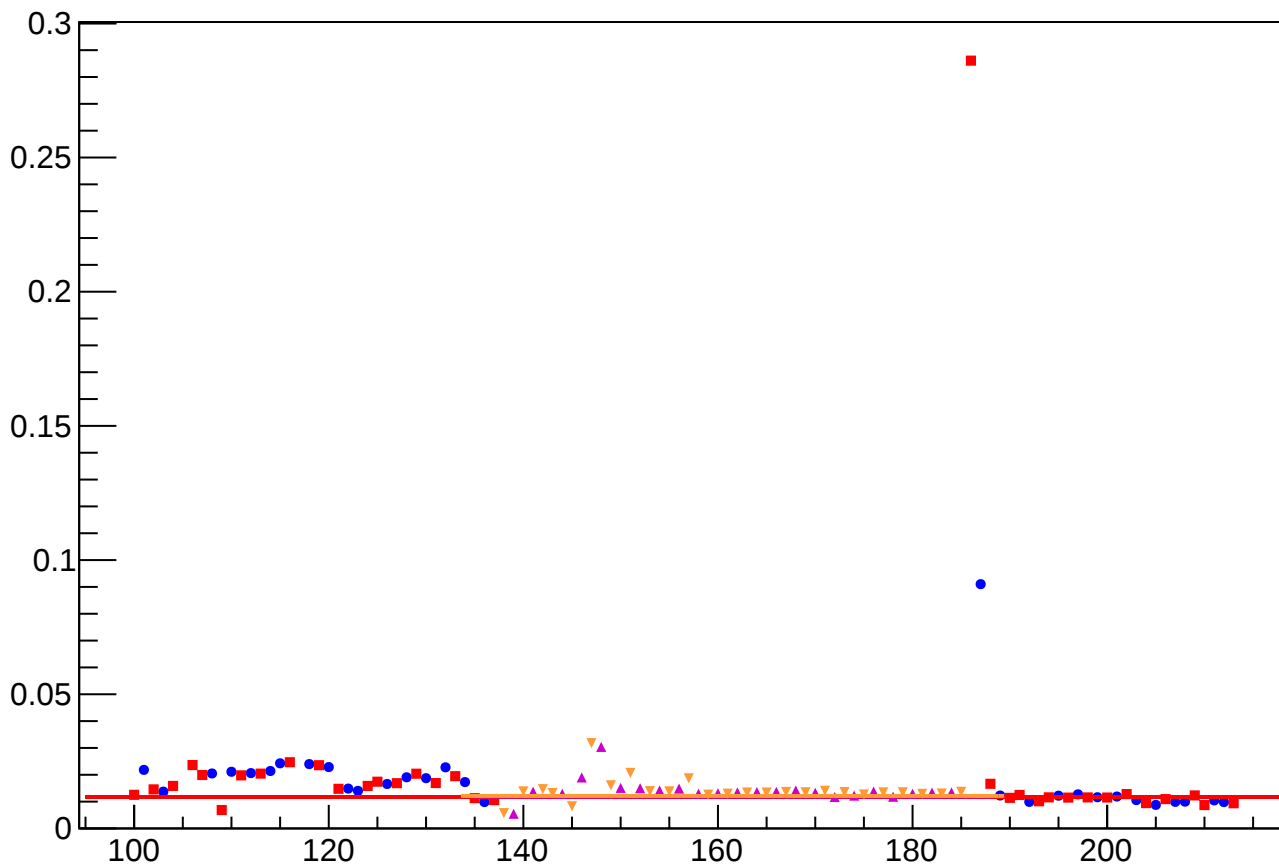
Out: 0.080+/-0.000

χ^2/NDF : 137806791224.3/58

All: 0.067+/-0.000

χ^2/NDF : 245785047752.3

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 2400823.7/29

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3107648.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 2971200.7/33

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:3105948.8/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 6217411.2/47

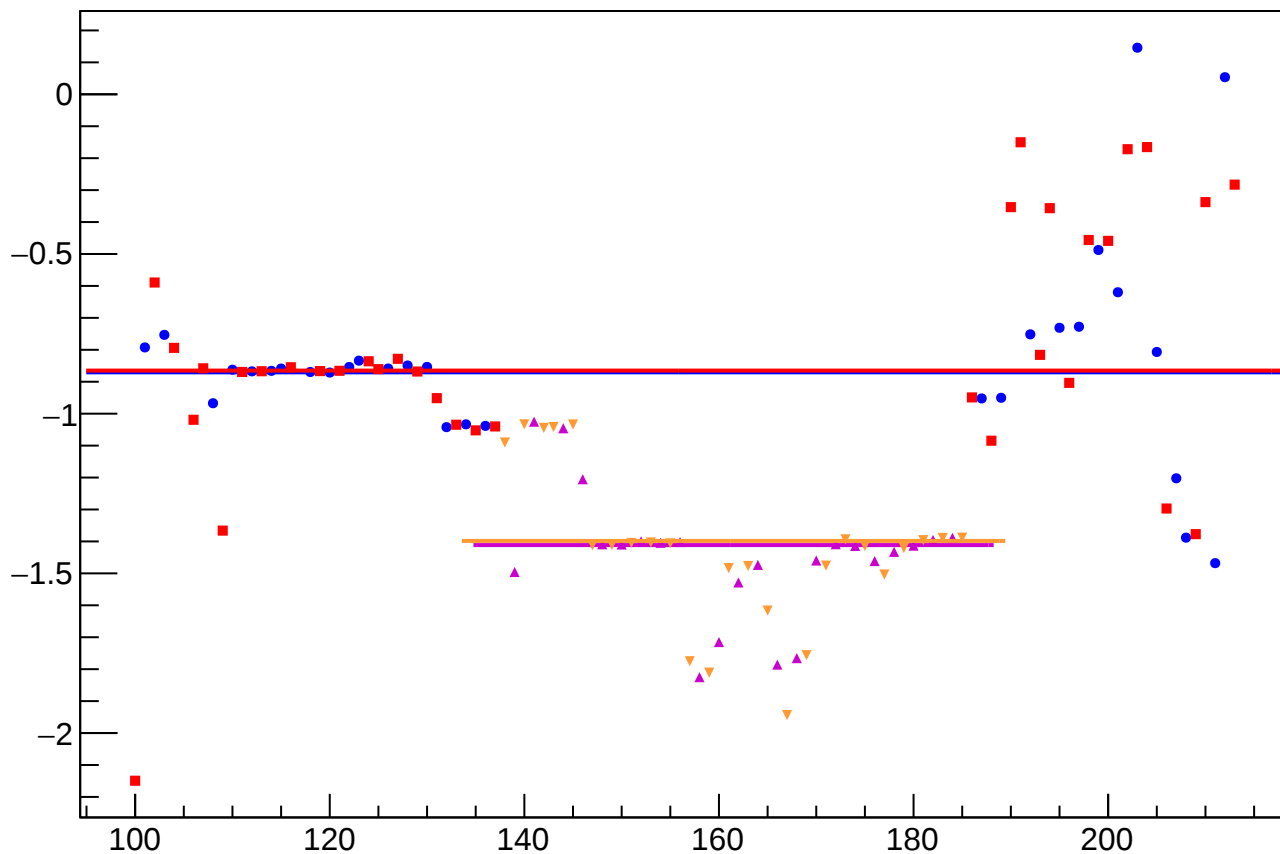
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 5372032.3/63

In: 0.012 $\pm$ 0.000 χ^2 /NDF:5511269.2/52

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:6094904.8/58

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 11608243.3/111

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.871 ± 0.000 $\chi^2/\text{NDF}: 338405694.9/29$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.865 ± 0.000 $\chi^2/\text{NDF}: 482589953.7/33$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

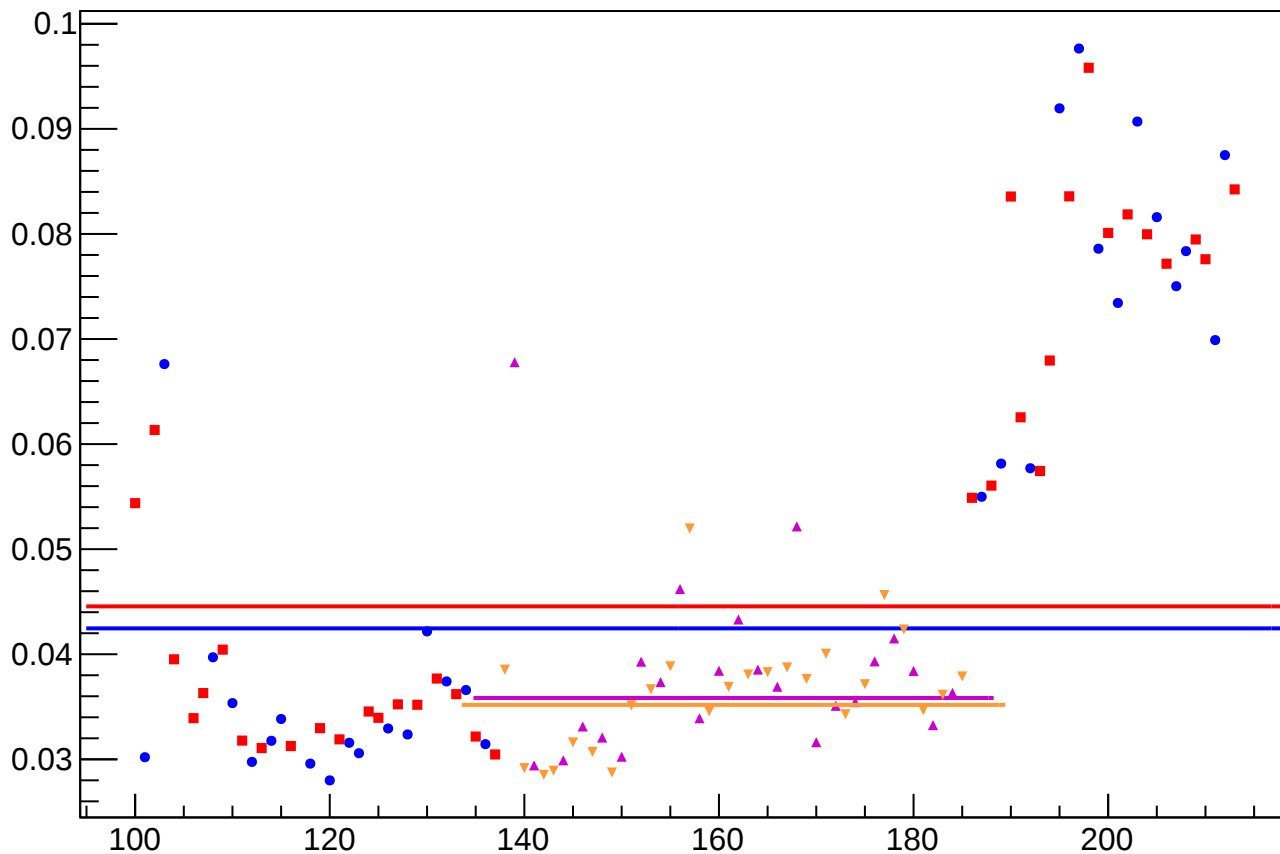
Right: -0.868 ± 0.000 $\chi^2/\text{NDF}: 821098466.5/63$

In: -1.216 ± 0.000 $\chi^2/\text{NDF}: 2119101484.8/52$

Out: -1.214 ± 0.000 $\chi^2/\text{NDF}: 2492917408.7/58$

All: -1.215 ± 0.000 $\chi^2/\text{NDF}: 4612040996.9/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.042 $\pm$ 0.000 χ^2 /NDF: 4871396.3/29

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:597886.0/24

Right Out: 0.045 $\pm$ 0.000 χ^2 /NDF: 4357113.0/33

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

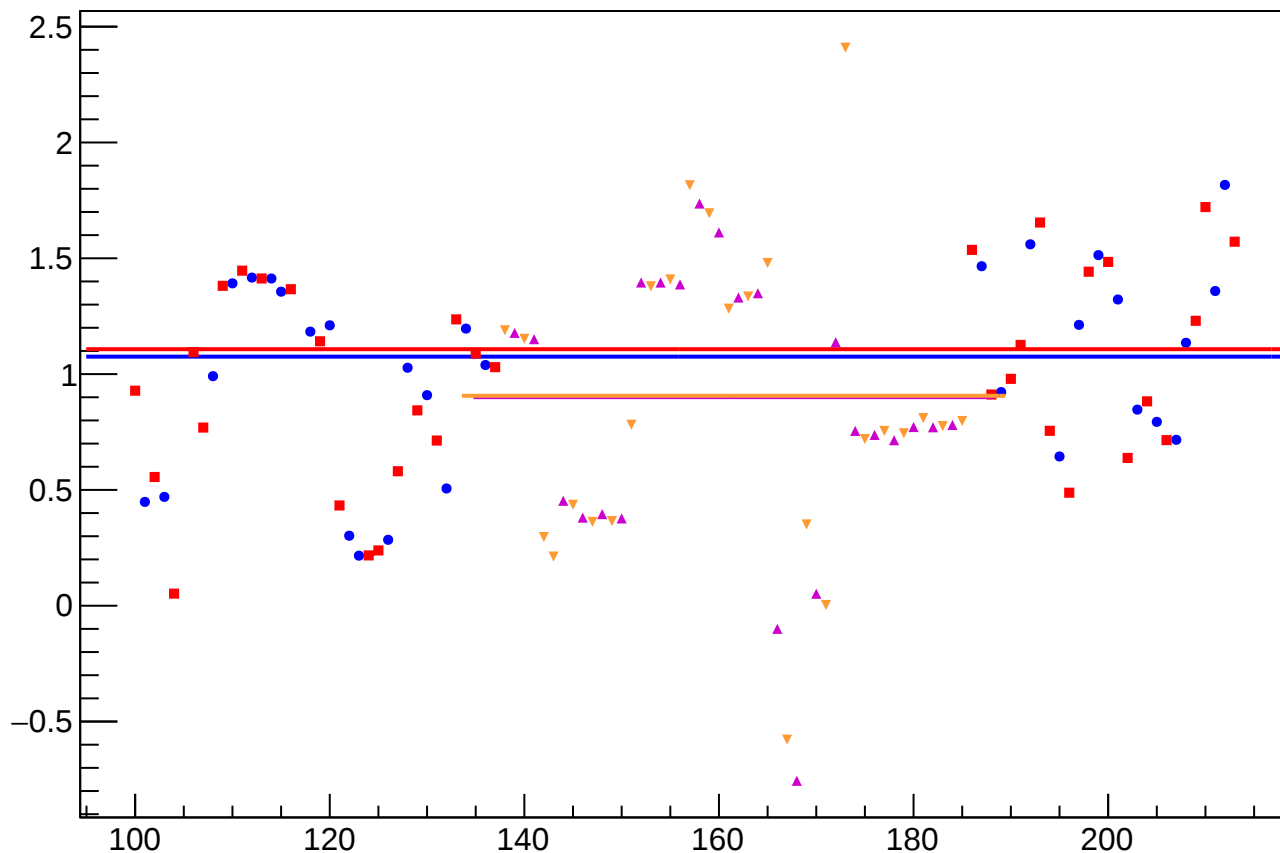
Right: 0.044 $\pm$ 0.000 χ^2 /NDF: 9258416.8/63

In: 0.038 $\pm$ 0.000 χ^2 /NDF:6142632.9/52

Out: 0.038 $\pm$ 0.000 χ^2 /NDF:5743155.7/58

All: 0.038 $\pm$ 0.000 χ^2 /NDF: 11886440.1/111

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.075+/-0.000

χ^2/NDF : 36825455740.0/29

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 1.091+/-0.000 χ^2/NDF : 80602519096.5/63

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 0.997+/-0.000 χ^2/NDF : 107278089754.8/52

Right Out: 1.108+/-0.000

χ^2/NDF : 43647466060.9/33

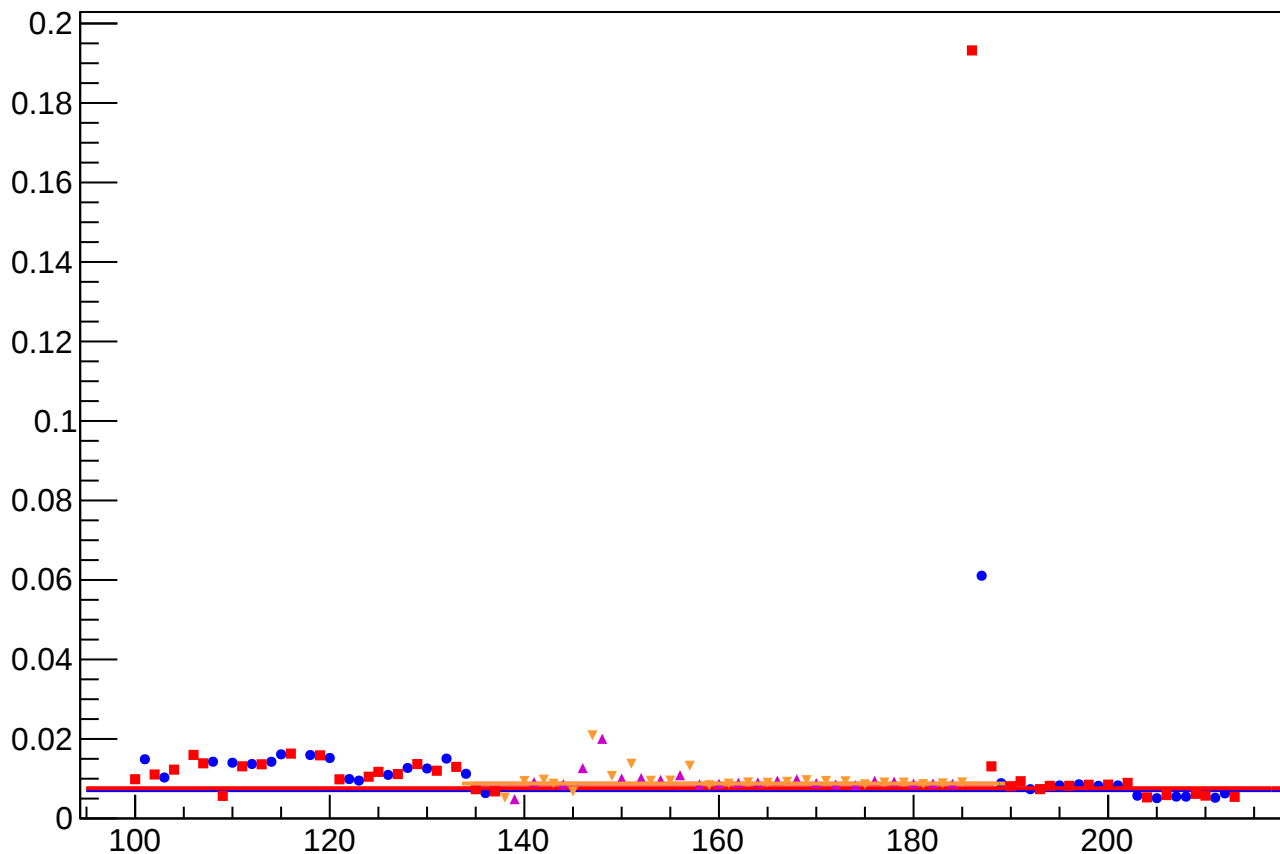
Out: 1.012+/-0.000 χ^2/NDF : 132423076850.0/58

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 1.005+/-0.000 χ^2/NDF : 239752478906.7

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 3417179.7/29

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:1698526.2/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 3683927.5/33

Left In: 0.009 $\pm$ 0.000 χ^2 /NDF:1669983.7/22

Left: 0.009 $\pm$ 0.000 χ^2 /NDF: 3369008.8/47

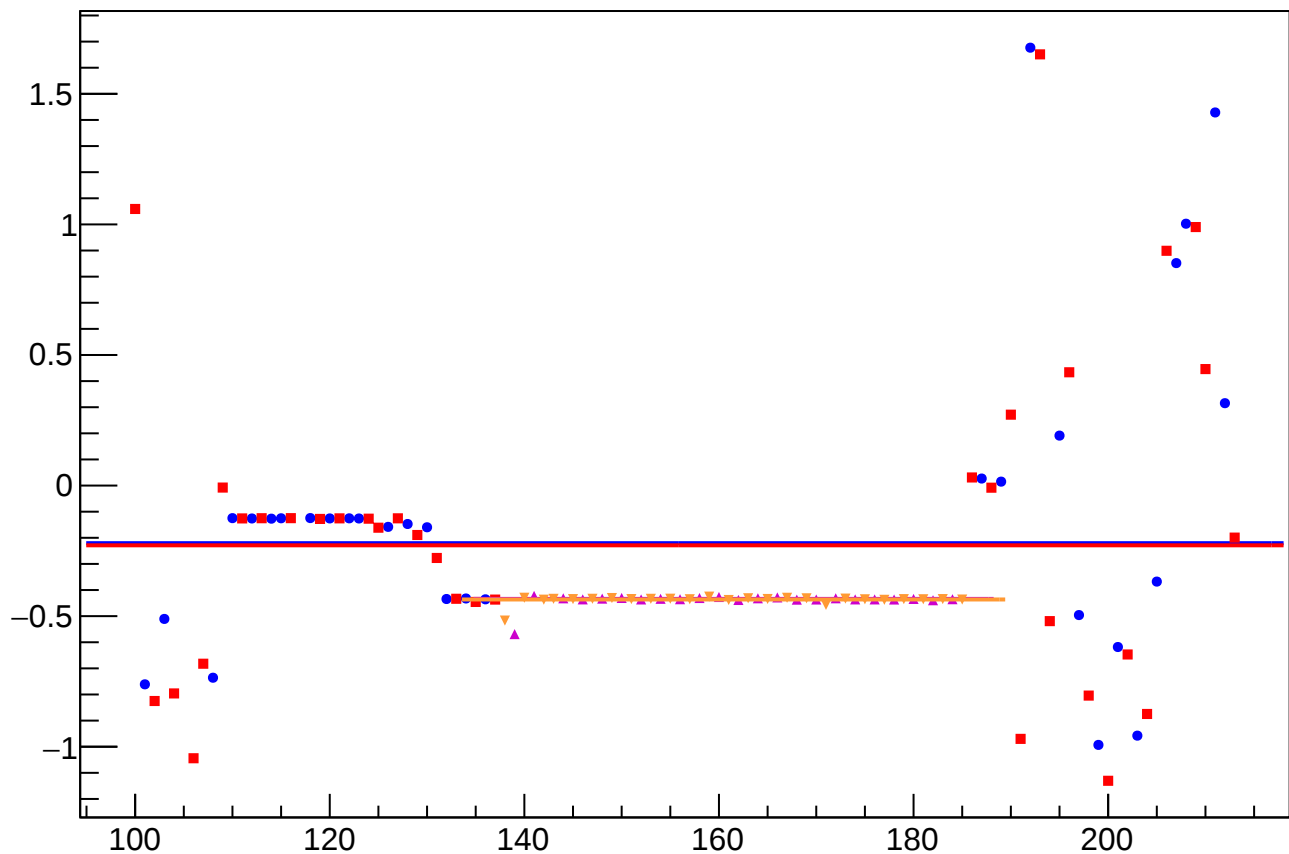
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 7158172.6/63

In: 0.008 $\pm$ 0.000 χ^2 /NDF:5685501.3/52

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:5705223.4/58

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 11437826.7/111

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.221 ± 0.000 $\chi^2/\text{NDF}: 4752471975.3/29$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28776503.9/24$

Right Out: -0.229 ± 0.000 $\chi^2/\text{NDF}: 3413959324.9/33$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 20164730.3/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 49321098.5/47$

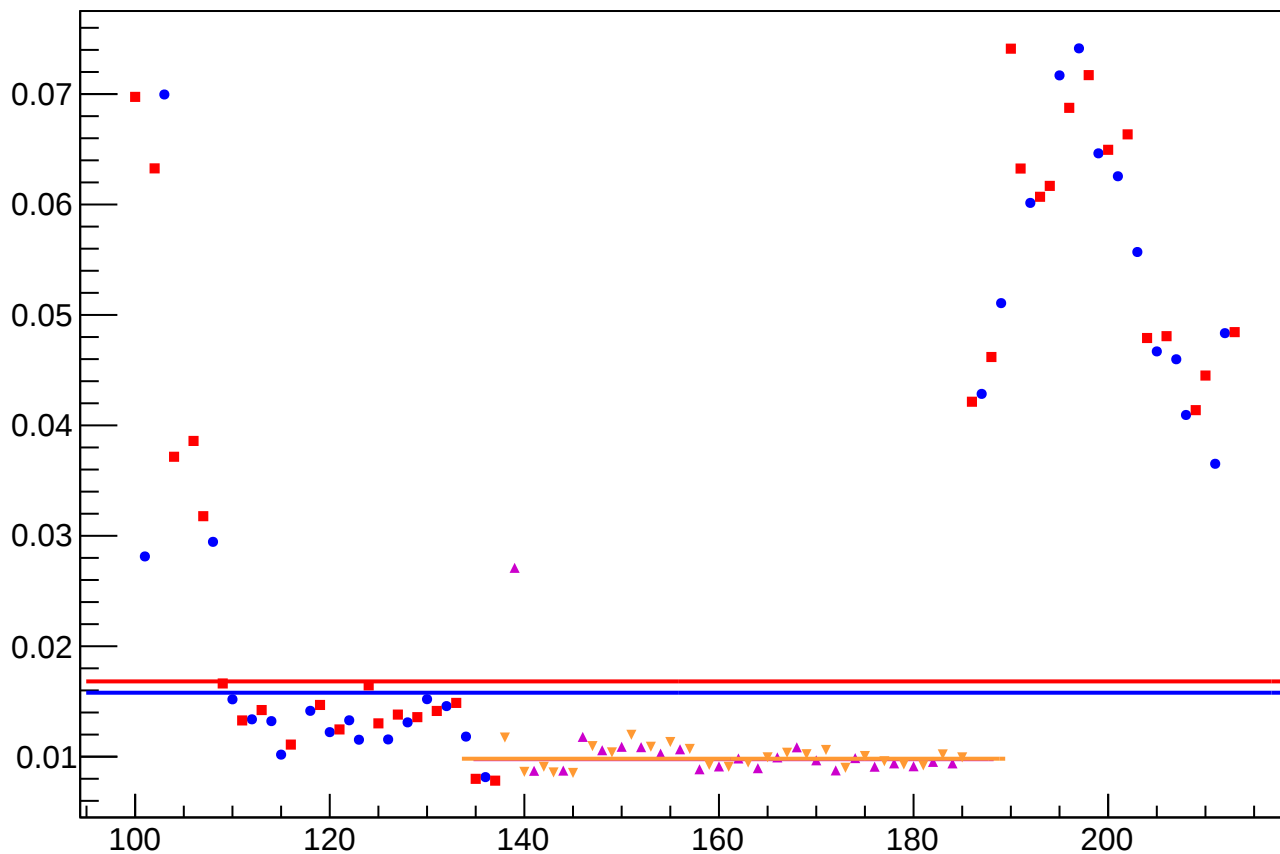
Right: -0.225 ± 0.000 $\chi^2/\text{NDF}: 8167558245.3/63$

In: -0.394 ± 0.000 $\chi^2/\text{NDF}: 6064714809.9/52$

Out: -0.401 ± 0.000 $\chi^2/\text{NDF}: 4628598494.8/58$

All: -0.398 ± 0.000 $\chi^2/\text{NDF}: 10697392390.3/112$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.000 χ^2/NDF : 11336912.7/29

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :271172.3/24

Right Out: 0.017 $\pm$ 0.000 χ^2/NDF : 12265026.3/33

Left In: 0.010 $\pm$ 0.000 χ^2/NDF :786577.8/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 1058038.1/47

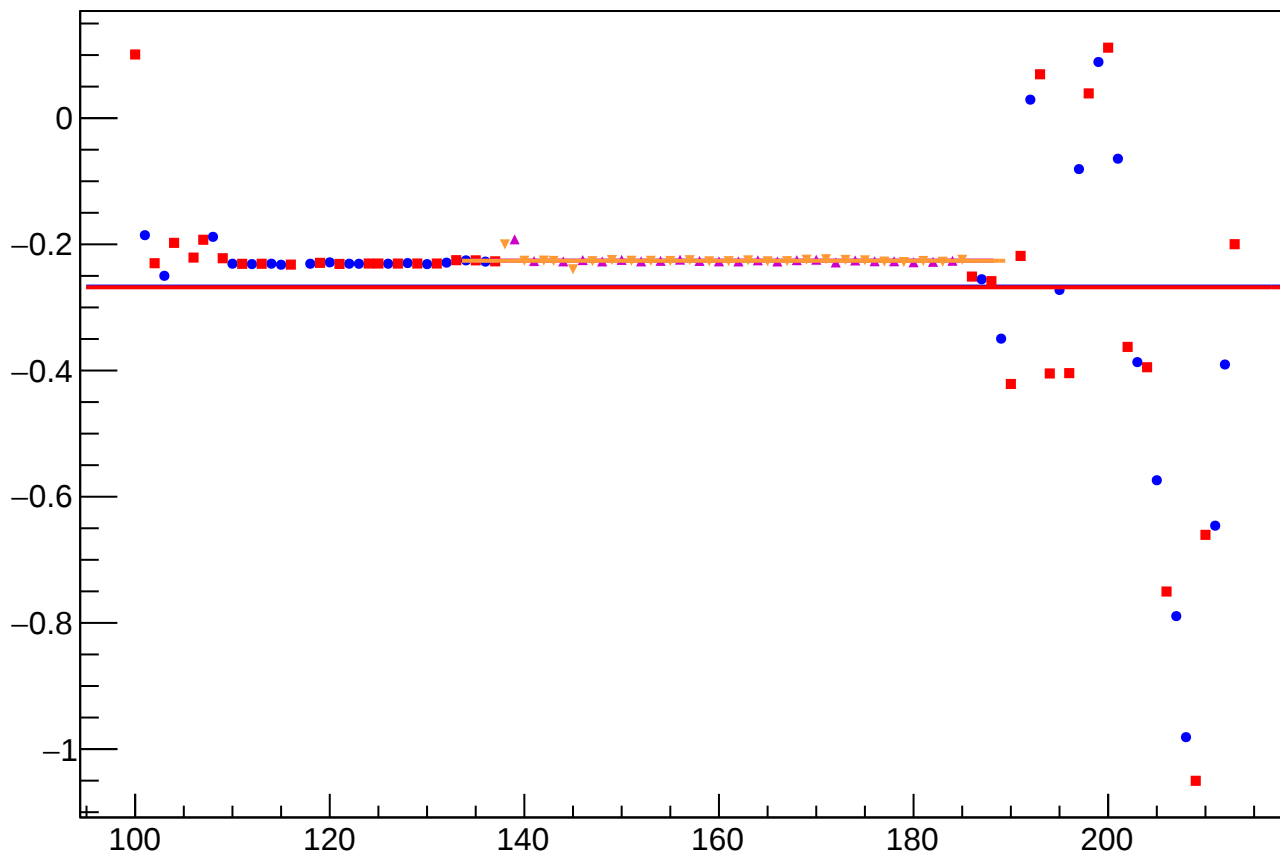
Right: 0.016 $\pm$ 0.000 χ^2/NDF : 23637637.6/63

In: 0.011 $\pm$ 0.000 χ^2/NDF :14179846.4/52

Out: 0.011 $\pm$ 0.000 χ^2/NDF :15238191.1/58

All: 0.011 $\pm$ 0.000 χ^2/NDF : 29420605.3/111

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.267 $\pm$ 0.000 χ^2 /NDF: 24924085723.9/29

Left Out: -0.226 $\pm$ 0.000 χ^2 /NDF: 21207366.3/24

Right Out: -0.268 $\pm$ 0.000 χ^2 /NDF: 25233439034.9/33

Left In: -0.226 $\pm$ 0.000 χ^2 /NDF: 13717302.5/22

Left: -0.226 $\pm$ 0.000 χ^2 /NDF: 34951372.2/47

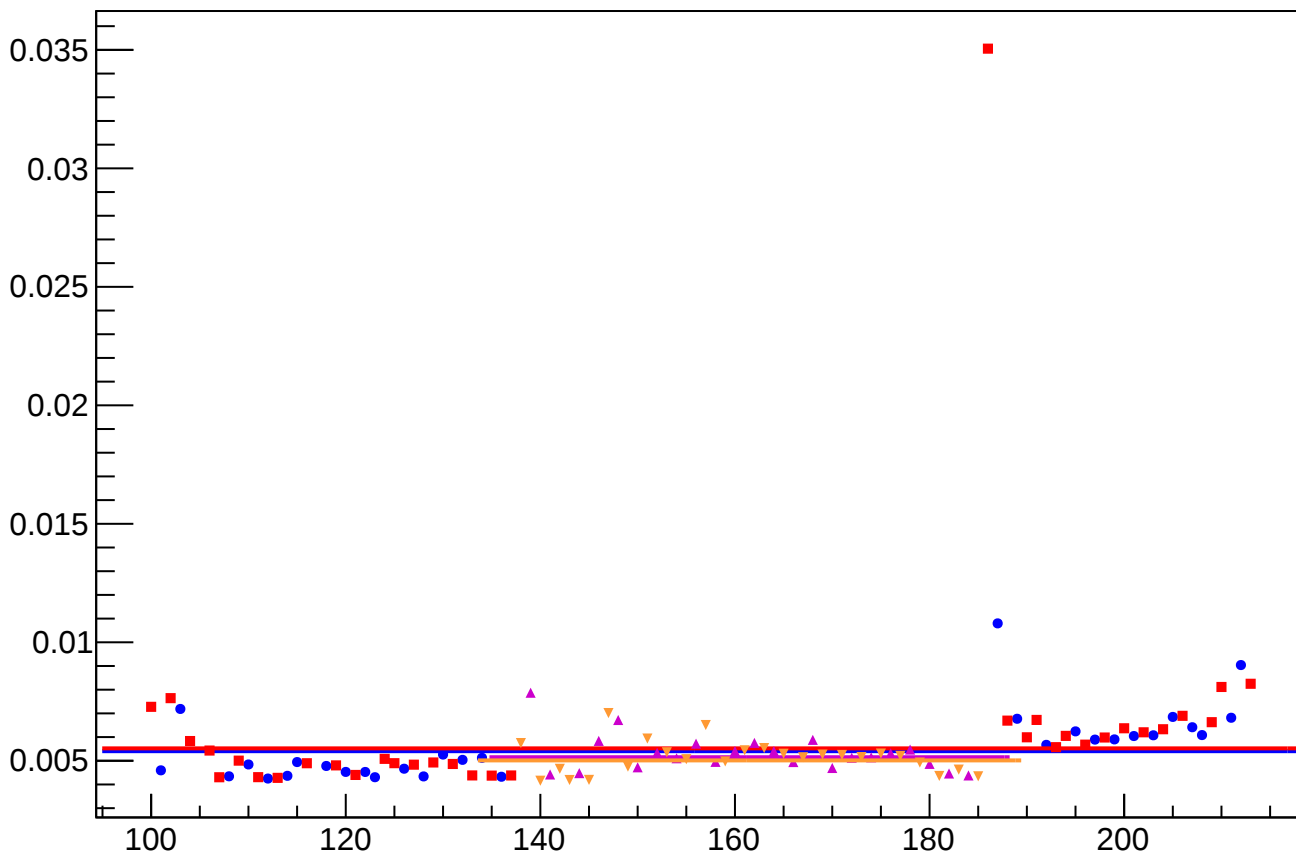
Right: -0.268 $\pm$ 0.000 χ^2 /NDF: 50157862624.6/63

In: -0.244 $\pm$ 0.000 χ^2 /NDF: 25401237014.0/52

Out: -0.244 $\pm$ 0.000 χ^2 /NDF: 25769183104.1/58

All: -0.244 $\pm$ 0.000 χ^2 /NDF: 51170423282.6/110

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1068063.9/29

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1609124.8/33

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

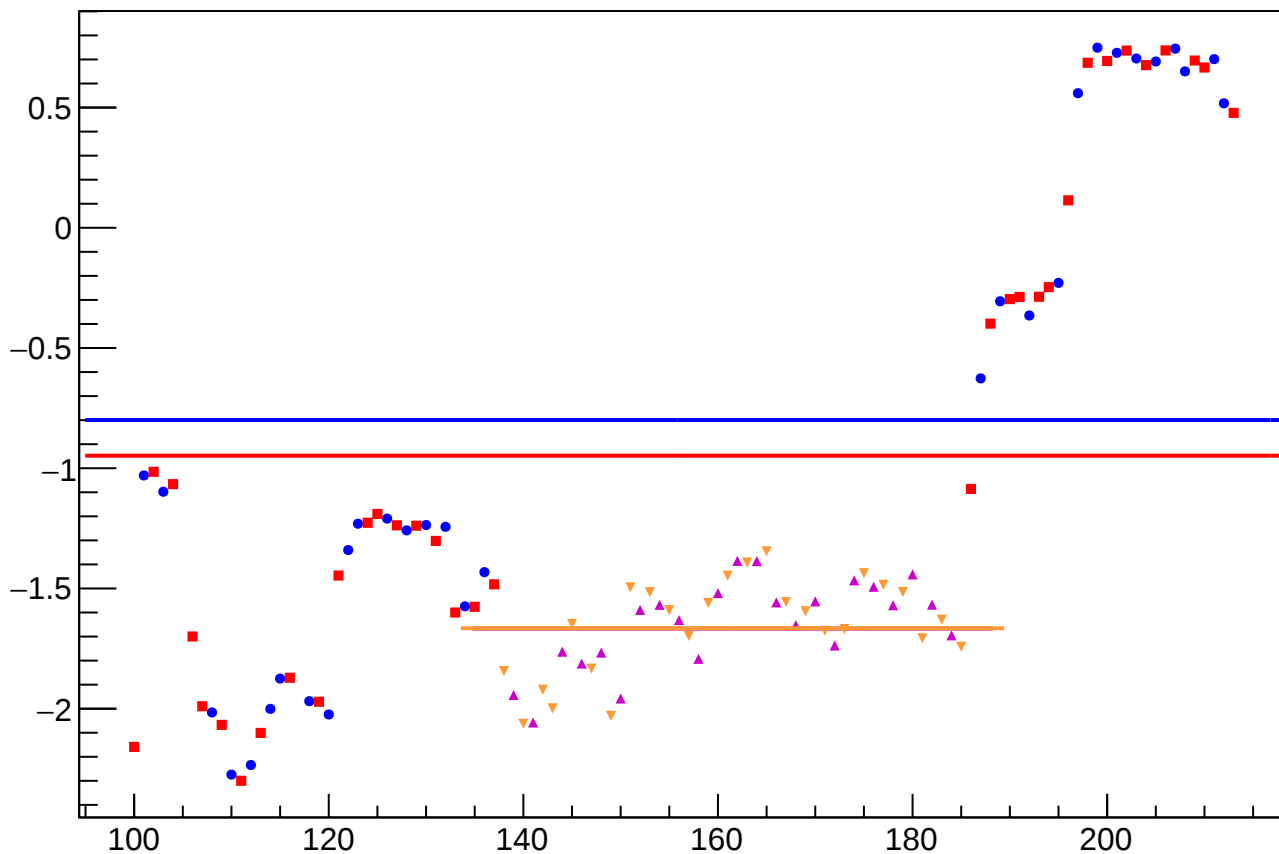
Right: 0.005+/-0.000 χ^2/NDF : 2684148.3/63

In: 0.005+/-0.000 χ^2/NDF : 1607779.1/52

Out: 0.005+/-0.000 χ^2/NDF : 2291457.0/58

All: 0.005+/-0.000 χ^2/NDF : 3900361.7/111

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.800+/-0.000

χ^2/NDF : 221268644489.3/29

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -0.879+/-0.000

χ^2/NDF : 474466427562.2/63

Right Out: -0.948+/-0.000

χ^2/NDF : 250618035468.2/33

In: -1.367+/-0.000

χ^2/NDF : 343435088222.2/52

Out: -1.403+/-0.000

χ^2/NDF : 352113612577.0/58

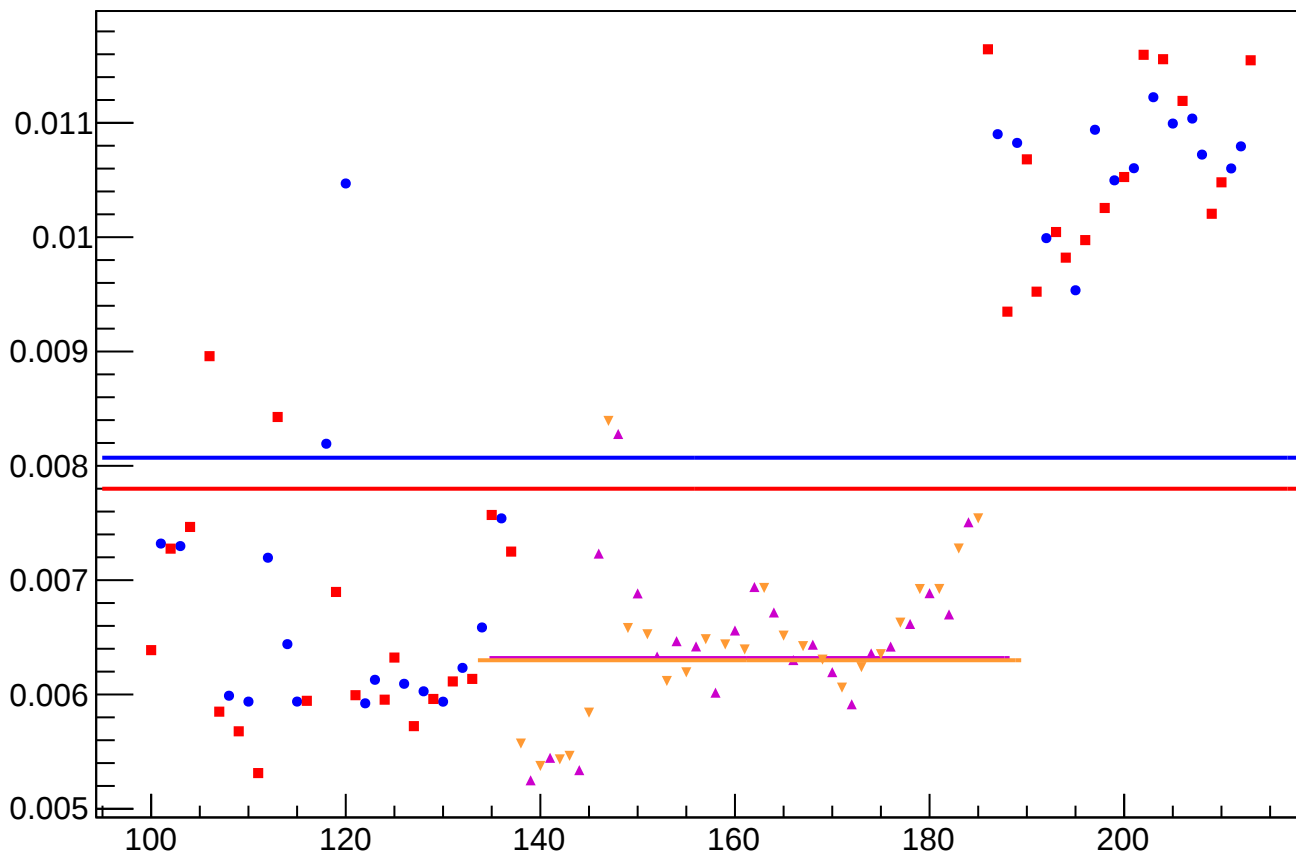
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.386+/-0.000

χ^2/NDF : 695984953965.8

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1840625.8/29

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2254500.3/33

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

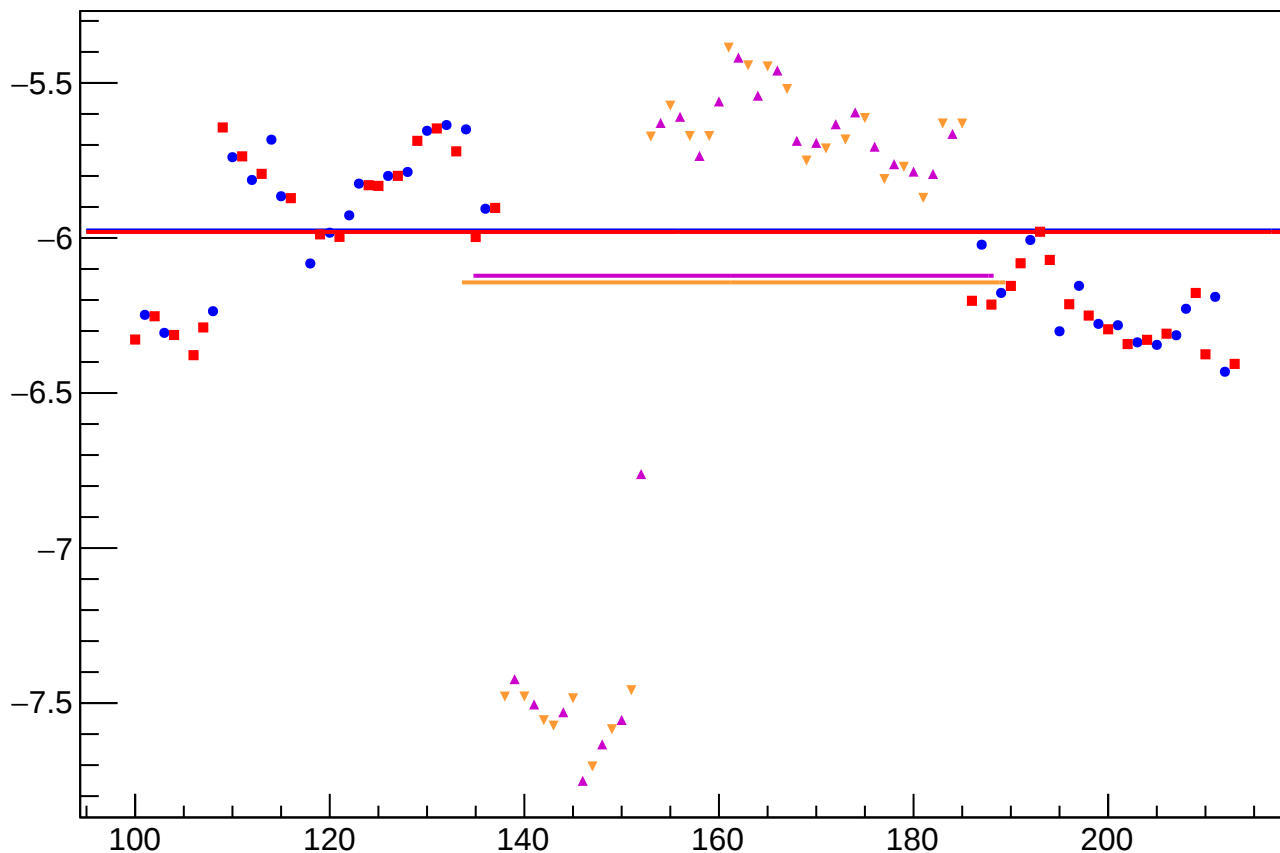
Right: 0.008+/-0.000 χ^2/NDF : 4112406.9/63

In: 0.007+/-0.000 χ^2/NDF :3052786.7/52

Out: 0.007+/-0.000 χ^2/NDF :3293379.4/58

All: 0.007+/-0.000 χ^2/NDF : 6350082.3/111

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.976+/-0.000 χ^2/NDF : 16186930243.6/29

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -5.981+/-0.000 χ^2/NDF : 17717380176.7/33

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

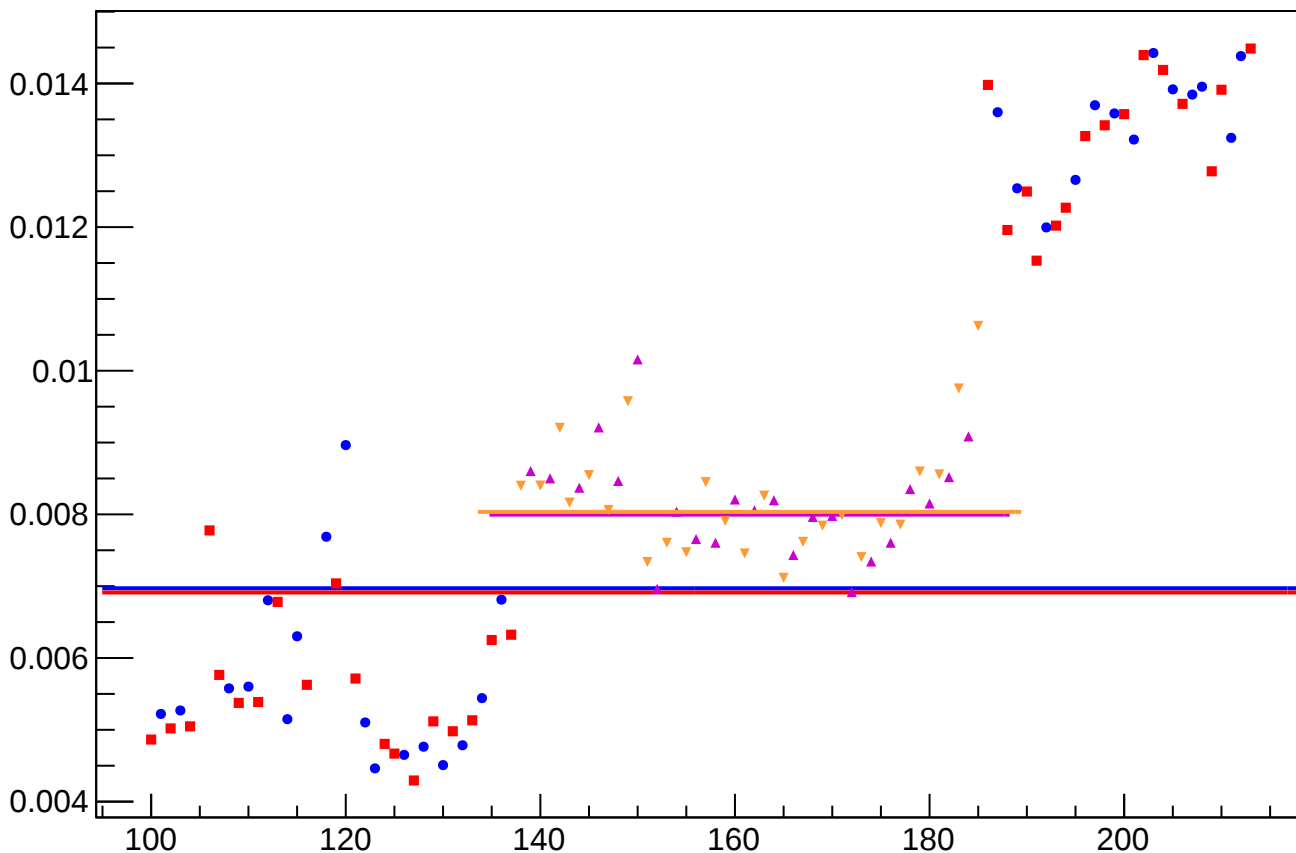
Right: -5.978+/-0.000 χ^2/NDF : 33907411387.3/63

In: -6.048+/-0.000 χ^2/NDF : 178759386595.3/52

Out: -6.059+/-0.000 χ^2/NDF : 206985372771.7/58

All: -6.054+/-0.000 χ^2/NDF : 385771614470.7

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 5501983.8/29

Left Out: 0.008+/-0.000 χ^2/NDF : 205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 5796814.9/33

Left In: 0.008+/-0.000 χ^2/NDF : 220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

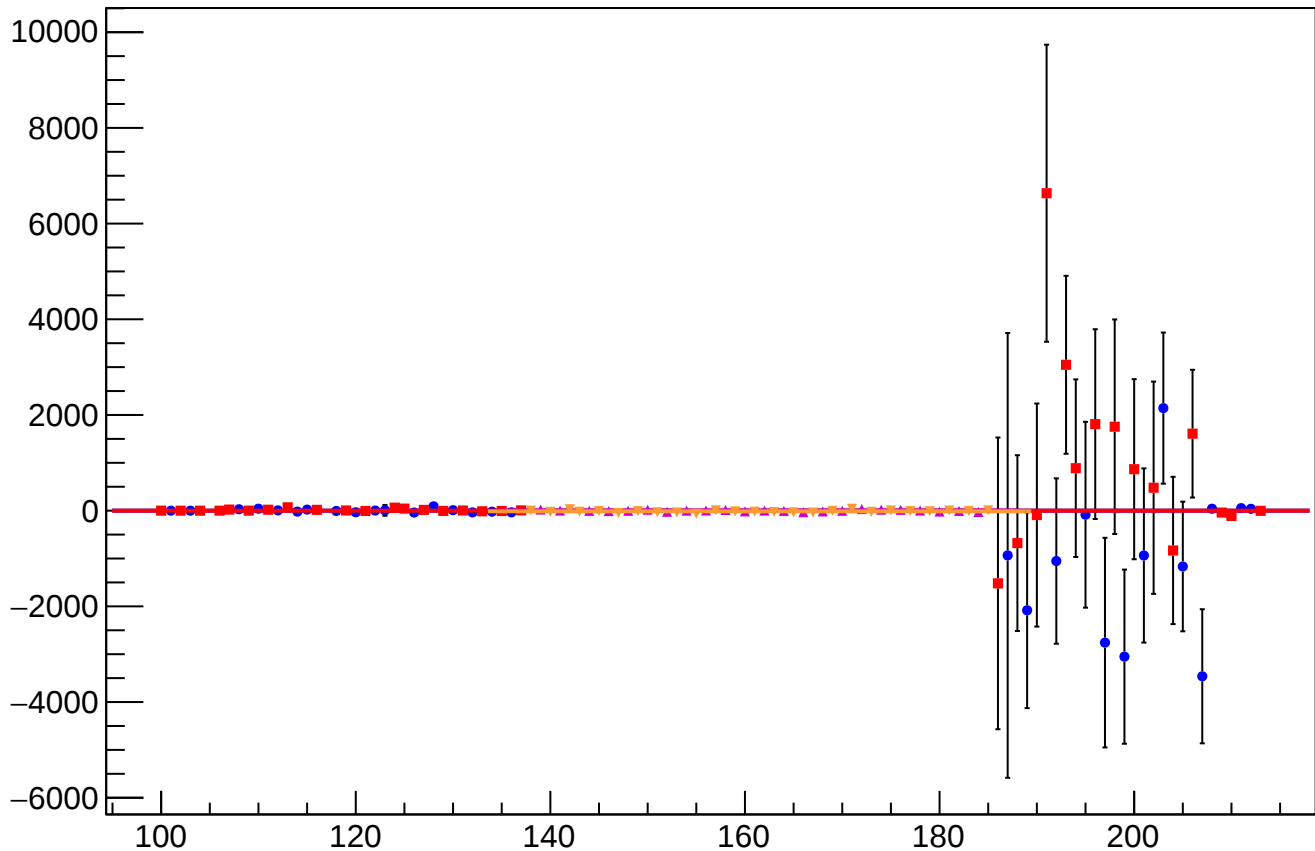
Right: 0.007+/-0.000 χ^2/NDF : 11299713.6/63

In: 0.007+/-0.000 χ^2/NDF : 5984727.4/52

Out: 0.007+/-0.000 χ^2/NDF : 6340562.2/58

All: 0.007+/-0.000 χ^2/NDF : 12325777.7/111

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 χ^2/NDF : 34.2/29

Left Out: -13.472 ± 2.796 χ^2/NDF : 58.5/24

Right Out: -0.003 ± 0.016 χ^2/NDF : 32.6/33

Left In: 0.489 ± 2.905 χ^2/NDF : 28.7/22

Left: -6.758 ± 2.015 χ^2/NDF : 99.2/47

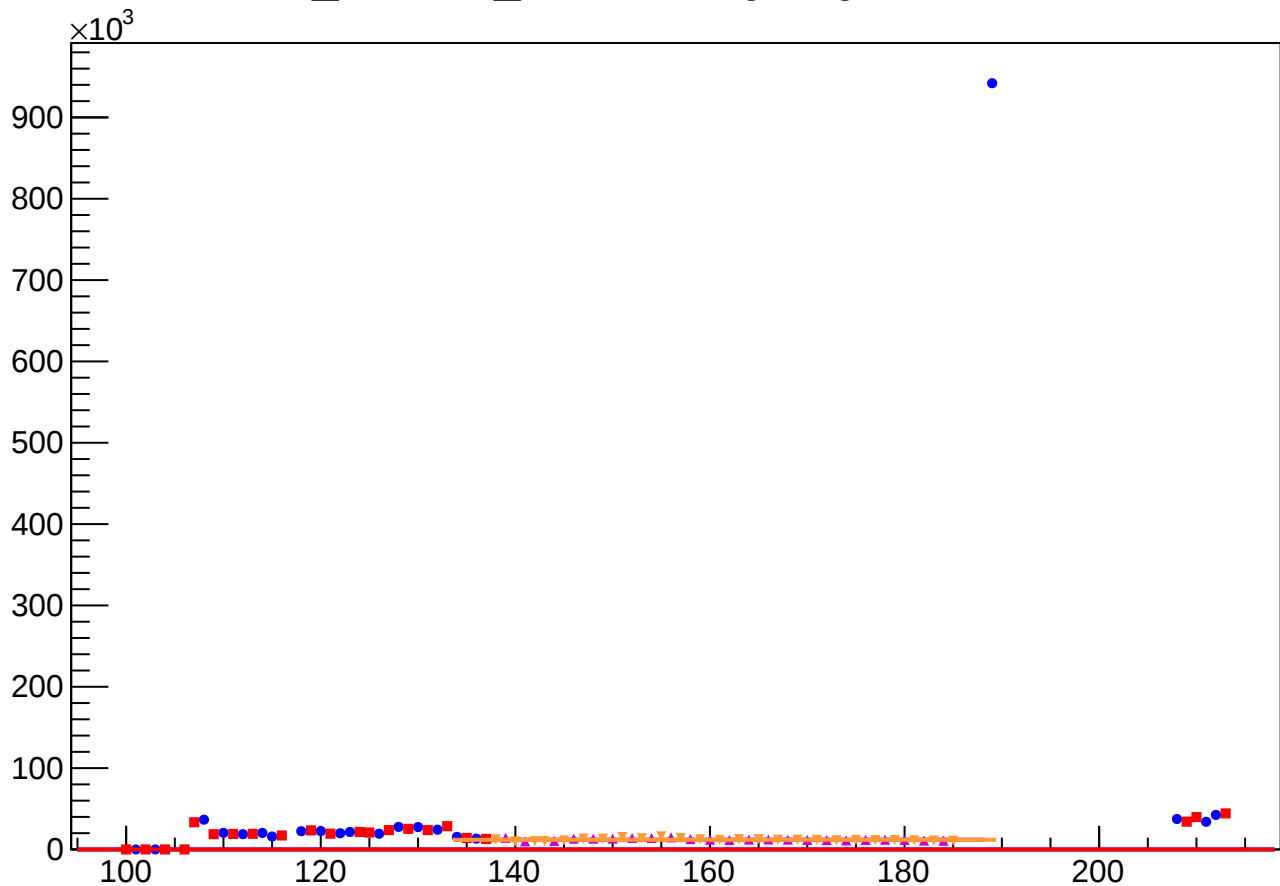
Right: 0.004 ± 0.012 χ^2/NDF : 67.3/63

In: 0.013 ± 0.017 χ^2/NDF : 62.9/52

Out: -0.004 ± 0.016 χ^2/NDF : 114.3/58

All: 0.004 ± 0.012 χ^2/NDF : 177.7/111

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.657+/-0.012 χ^2 /NDF: 15128667.4/20

Left Out: 11909.835+/-1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.325+/-0.011 χ^2 /NDF: 15370584.5/21

Left In: 12064.321+/-2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125+/-1.425 χ^2 /NDF: 850831.6/47

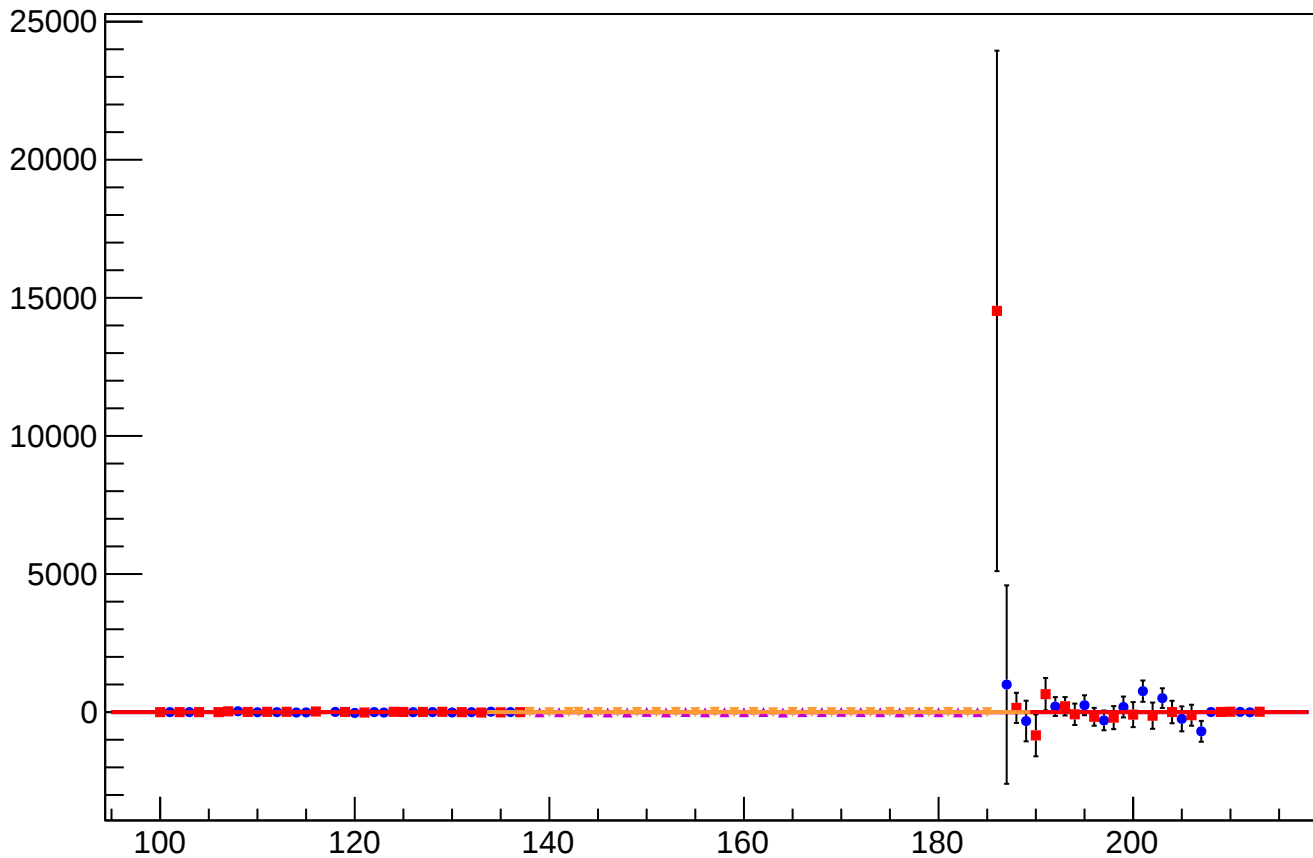
Right: 18.479+/-0.008 χ^2 /NDF: 30499645.6/42

In: 19.086+/-0.012 χ^2 /NDF: 49879065.0/43

Out: 18.718+/-0.011 χ^2 /NDF: 52012938.4/46

All: 18.888+/-0.008 χ^2 /NDF: 101892487.0/90

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 28.3/29

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF:17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 33.0/33

Left In: -0.843 $\pm$ 1.043 χ^2 /NDF:35.7/22

Left: 0.443 $\pm$ 0.730 χ^2 /NDF: 56.5/47

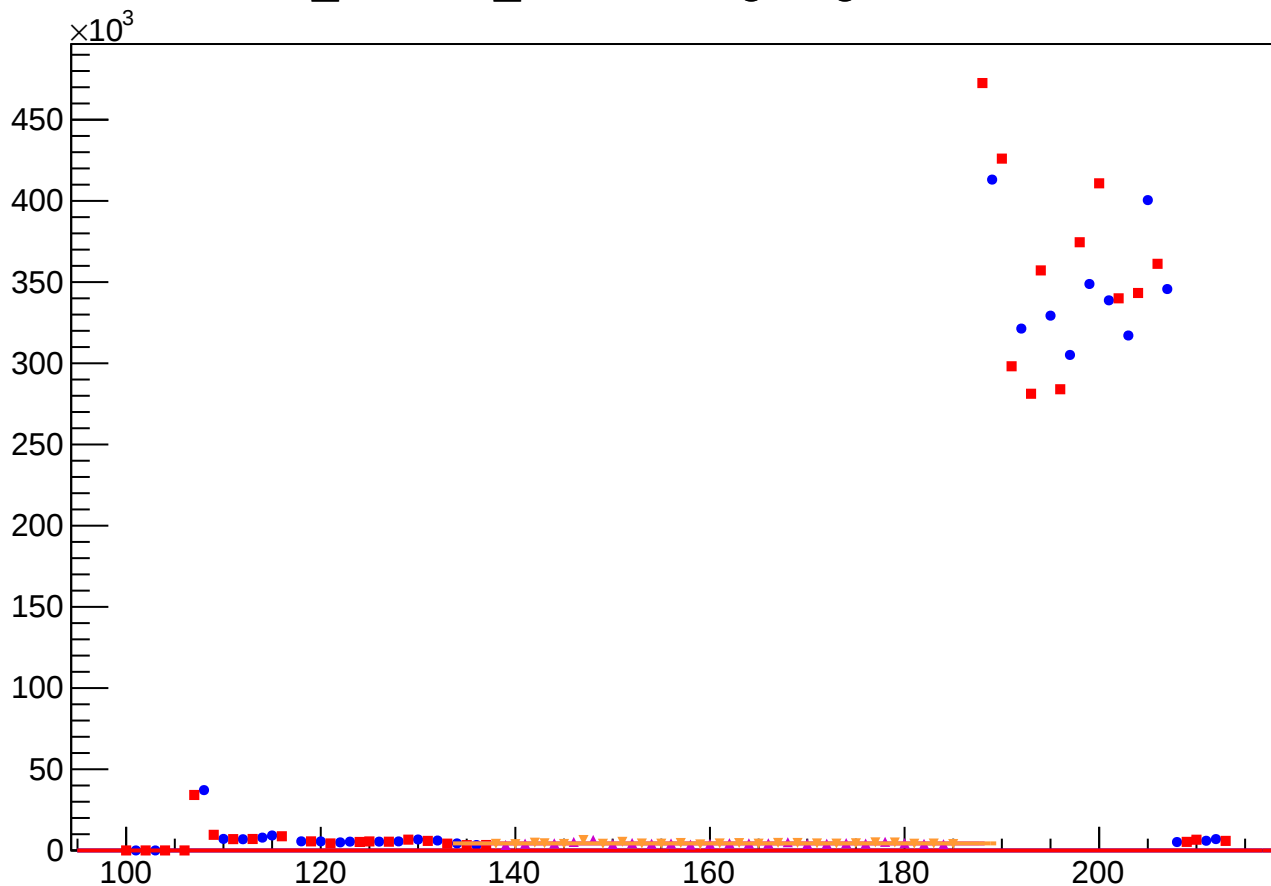
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 62.7/63

In: 0.001 $\pm$ 0.009 χ^2 /NDF:64.6/52

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:53.7/58

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 119.6/111

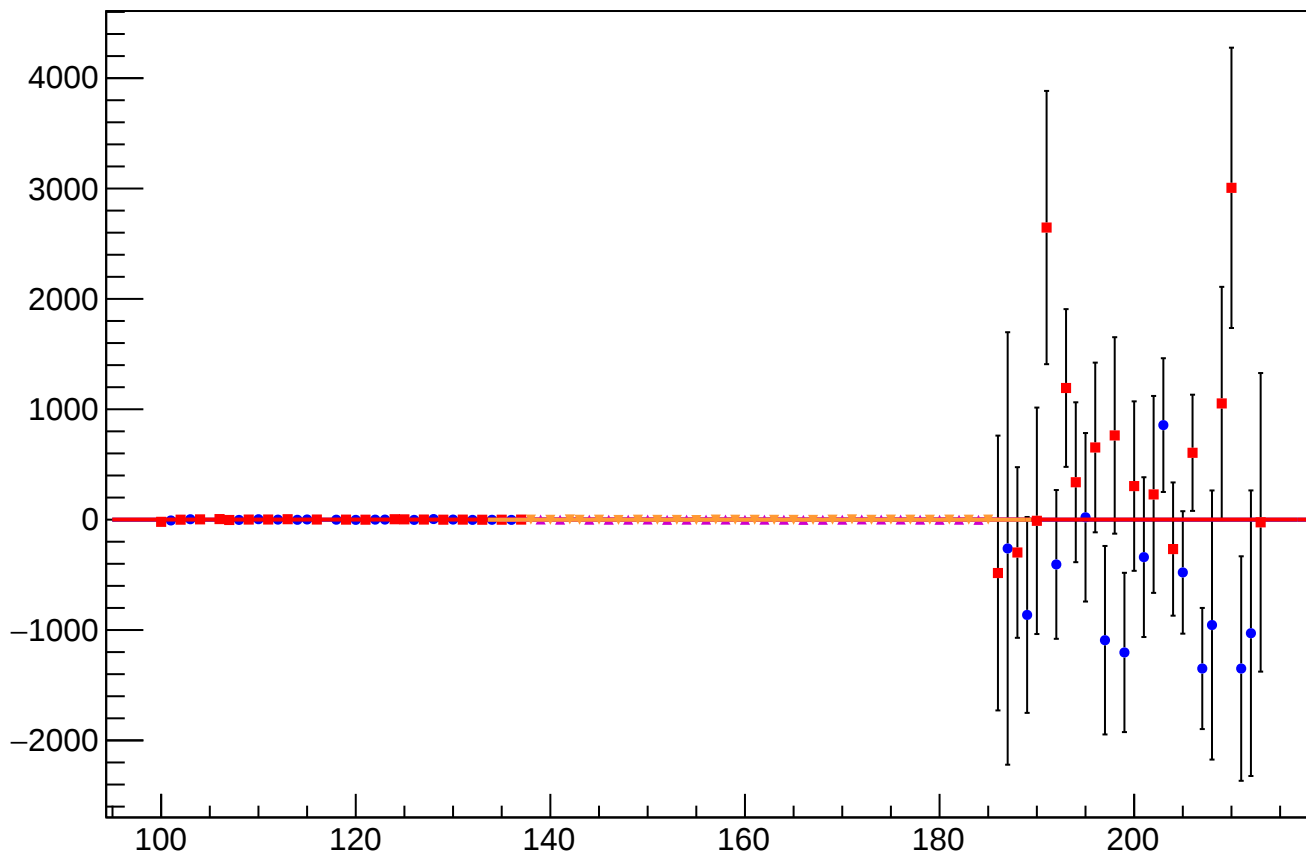
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.968 $\pm$ 0.007 χ^2 /NDF: 28584385.2/28
 Left Out: 4350.545 $\pm$ 0.722 χ^2 /NDF:384749.0/24
 Right Out: 9.883 $\pm$ 0.006 χ^2 /NDF: 30157586.5/32
 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: 9.923 $\pm$ 0.004 χ^2 /NDF: 58742063.3/61
 In: 10.303 $\pm$ 0.007 χ^2 /NDF:63179935.7/51
 Out: 10.194 $\pm$ 0.006 χ^2 /NDF:66686840.6/57
 All: 10.245 $\pm$ 0.004 χ^2 /NDF: 129866924.9/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.705 ± 0.485 $\chi^2/\text{NDF}: 40.2/29$

Left Out: -0.774 ± 0.164 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.763 ± 0.502 $\chi^2/\text{NDF}: 29.4/33$

Left In: 0.020 ± 0.170 $\chi^2/\text{NDF}: 29.2/22$

Left: -0.391 ± 0.118 $\chi^2/\text{NDF}: 98.9/47$

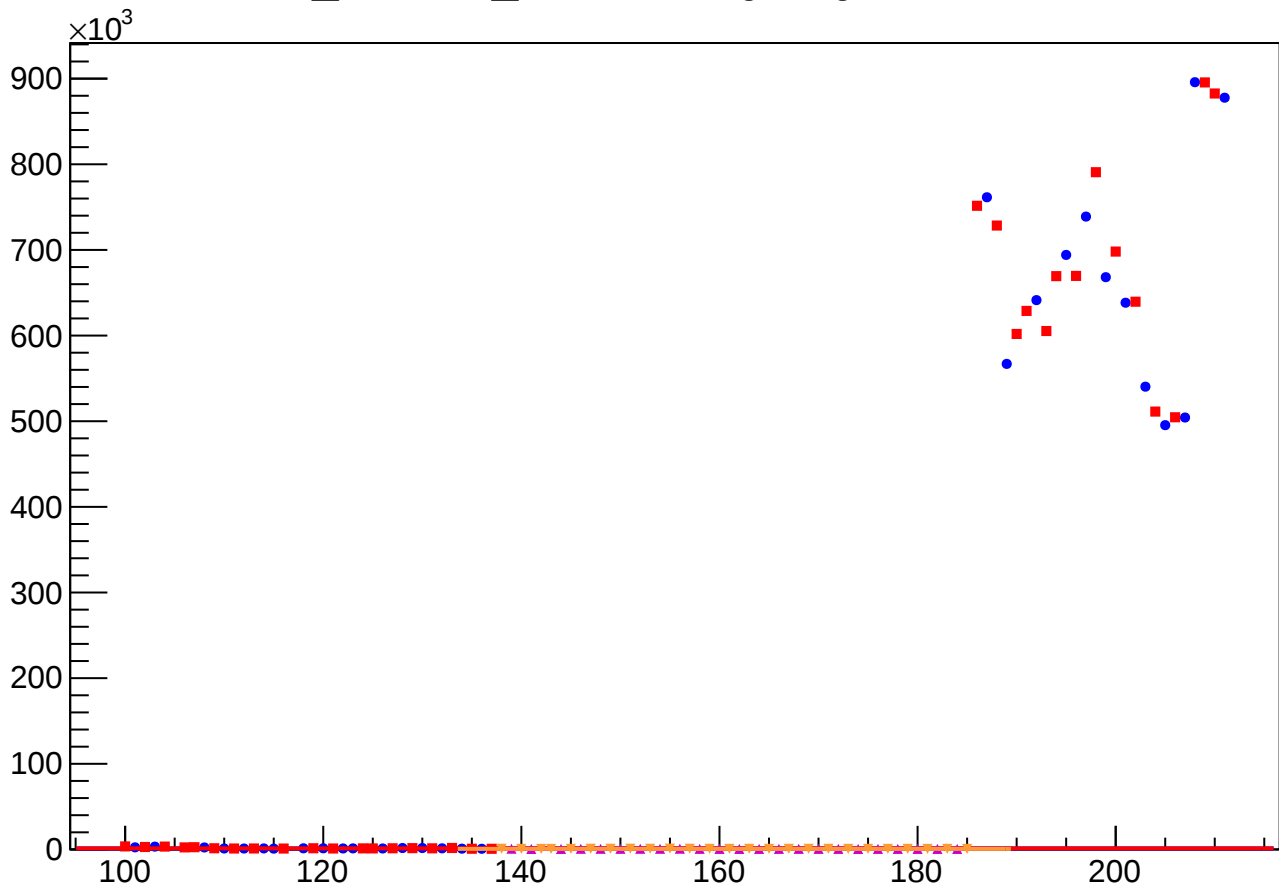
Right: 0.004 ± 0.349 $\chi^2/\text{NDF}: 74.1/63$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 71.4/52$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 96.3/58$

All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 174.1/111$

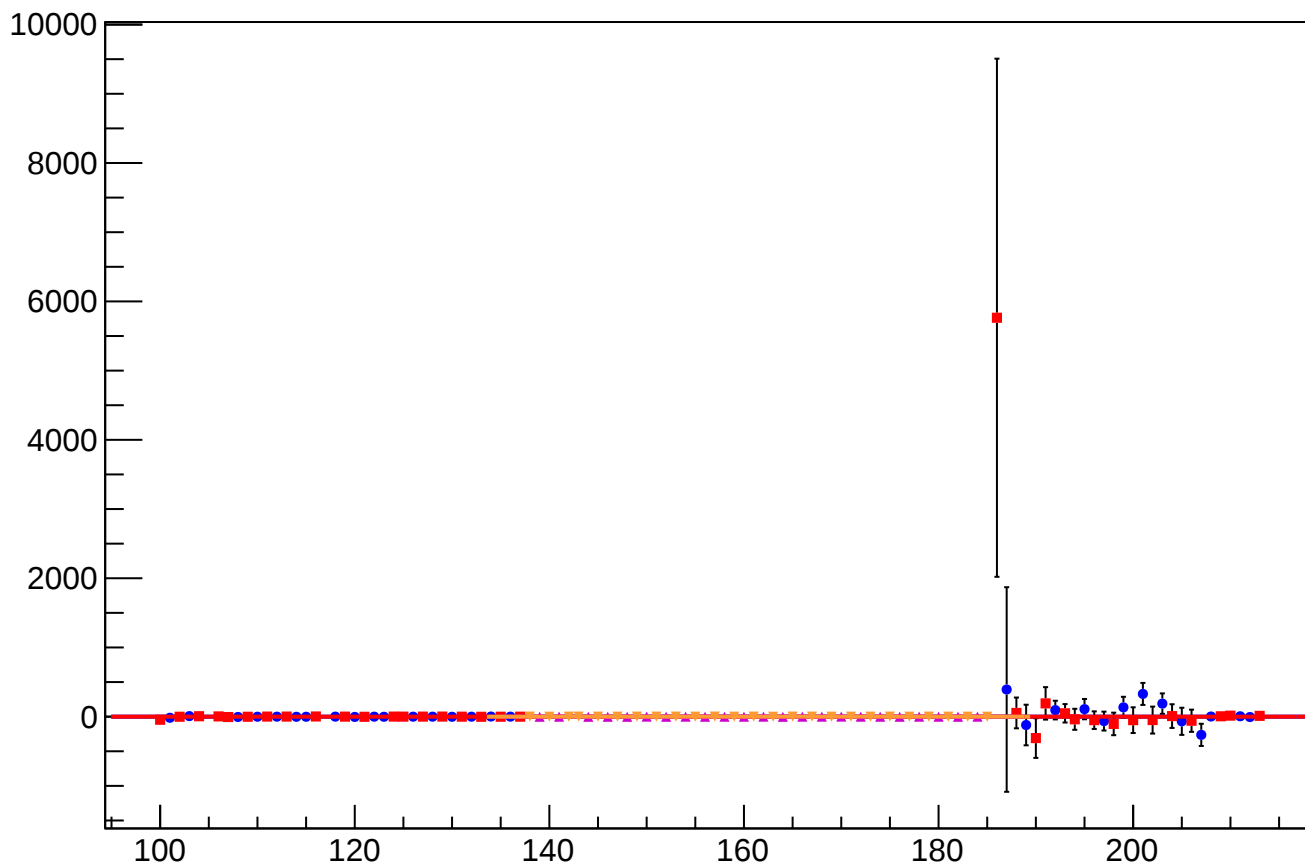
diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.299+/-0.343 χ^2/NDF : 18152560.5/28
 Left Out: 700.797+/-0.116 χ^2/NDF : 392521.4/24
 Right Out: 1252.624+/-0.355 χ^2/NDF : 18981927.6/32
 Left In: 706.950+/-0.120 χ^2/NDF : 338177.1/22

Left: 703.766+/-0.084 χ^2/NDF : 732052.1/47
 Right: 1208.485+/-0.247 χ^2/NDF : 37164366.3/61
 In: 757.383+/-0.114 χ^2/NDF : 20095115.3/51
 Out: 754.172+/-0.110 χ^2/NDF : 21556615.4/57
 All: 755.733+/-0.079 χ^2/NDF : 41652141.7/10

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.048 ± 0.270 χ^2/NDF : 33.7/29

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.178 ± 0.264 χ^2/NDF : 37.2/33

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

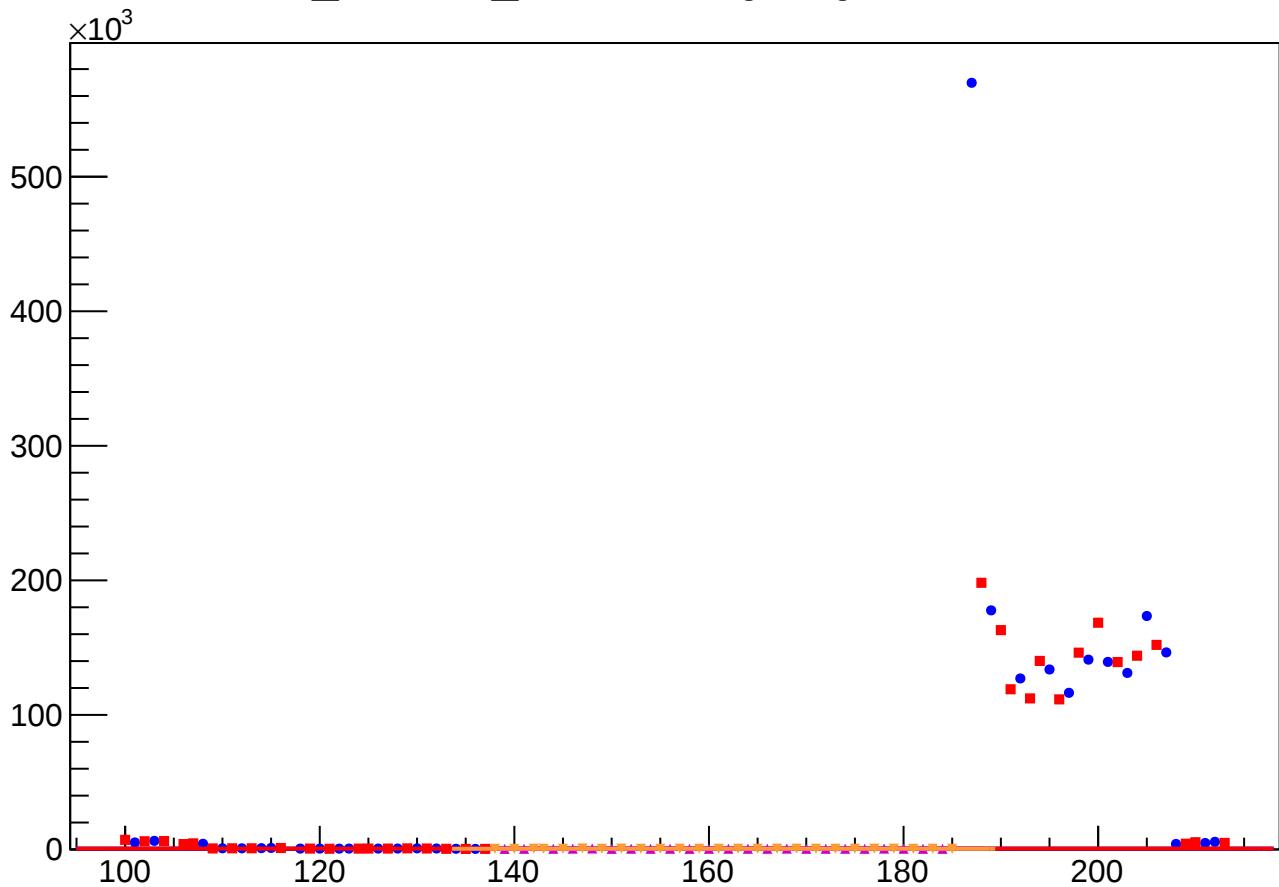
Right: -0.114 ± 0.189 χ^2/NDF : 71.0/63

In: -0.103 ± 0.114 χ^2/NDF : 68.8/52

Out: 0.163 ± 0.111 χ^2/NDF : 56.8/58

All: 0.033 ± 0.079 χ^2/NDF : 128.3/111

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 639.171+/-0.191 χ^2/NDF : 20111695.0/29

Left Out: 522.416+/-0.087 χ^2/NDF : 331573.1/24

Right Out: 630.598+/-0.187 χ^2/NDF : 21581758.2/32

Left In: 519.909+/-0.089 χ^2/NDF : 444746.3/22

Left: 521.193+/-0.062 χ^2/NDF : 776728.3/47

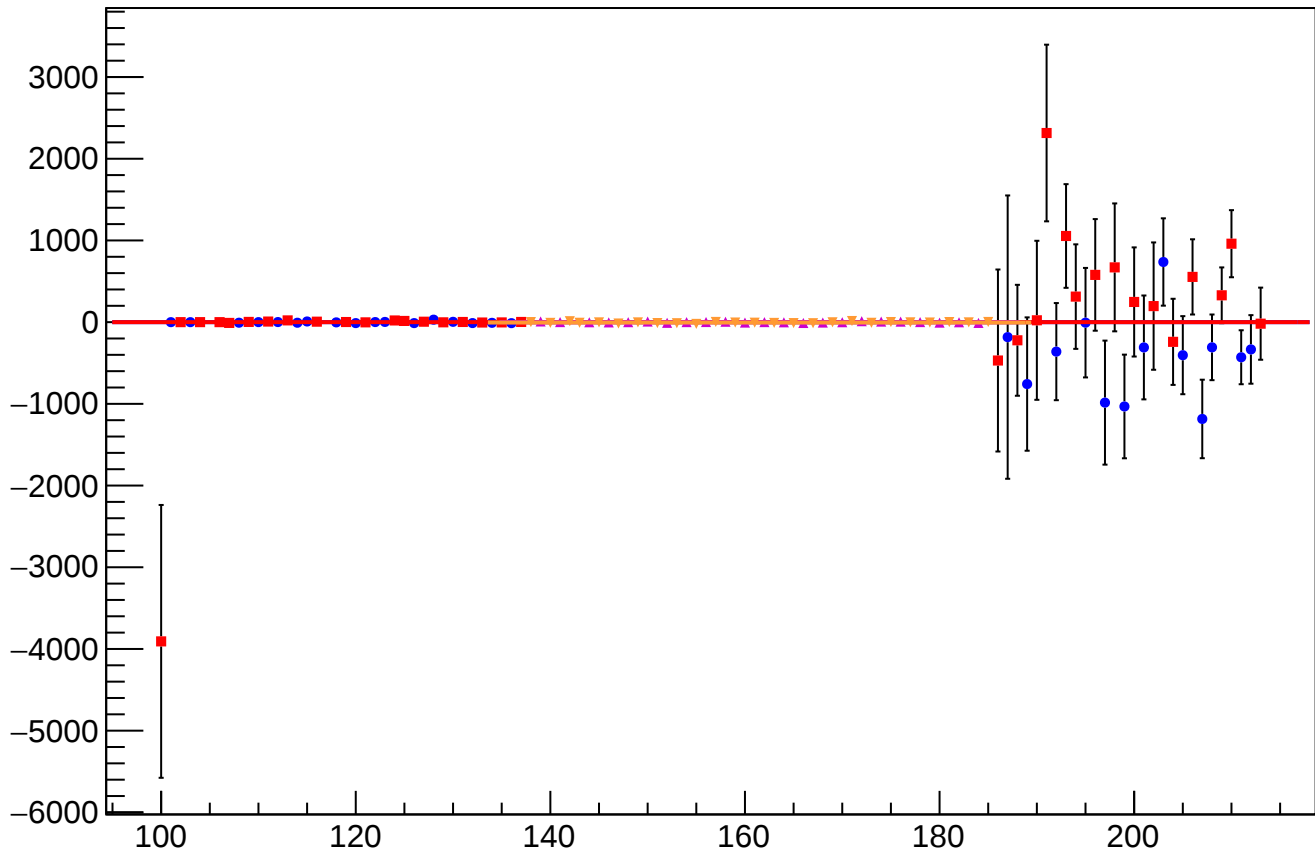
Right: 634.793+/-0.133 χ^2/NDF : 41694485.4/62

In: 541.138+/-0.080 χ^2/NDF : 20877964.4/52

Out: 541.581+/-0.079 χ^2/NDF : 22189734.8/57

All: 541.365+/-0.056 χ^2/NDF : 43067714.6/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022+/-0.021 χ^2/NDF : 33.0/29

Left Out: -4.474+/-0.956 χ^2/NDF : 58.2/24

Right Out: 0.027+/-0.020 χ^2/NDF : 34.4/33

Left In: 0.193+/-0.990 χ^2/NDF : 29.2/22

Left: -2.224+/-0.688 χ^2/NDF : 99.0/47

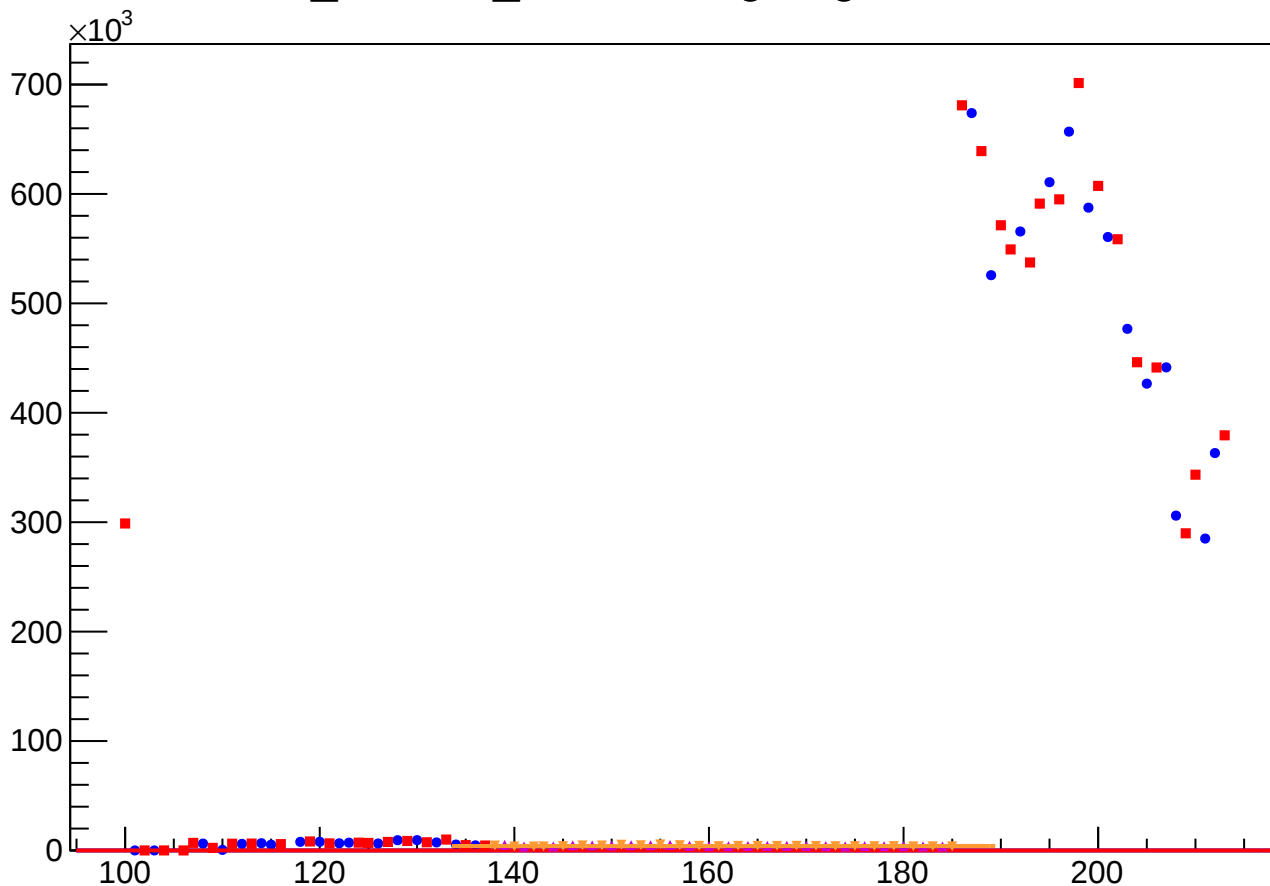
Right: 0.004+/-0.014 χ^2/NDF : 70.3/63

In: -0.022+/-0.021 χ^2/NDF : 62.3/52

Out: 0.025+/-0.020 χ^2/NDF : 114.8/58

All: 0.003+/-0.014 χ^2/NDF : 179.7/111

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.344+/-0.015 χ^2/NDF : 28711864.1/29

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.275+/-0.014 χ^2/NDF : 31001732.7/33

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

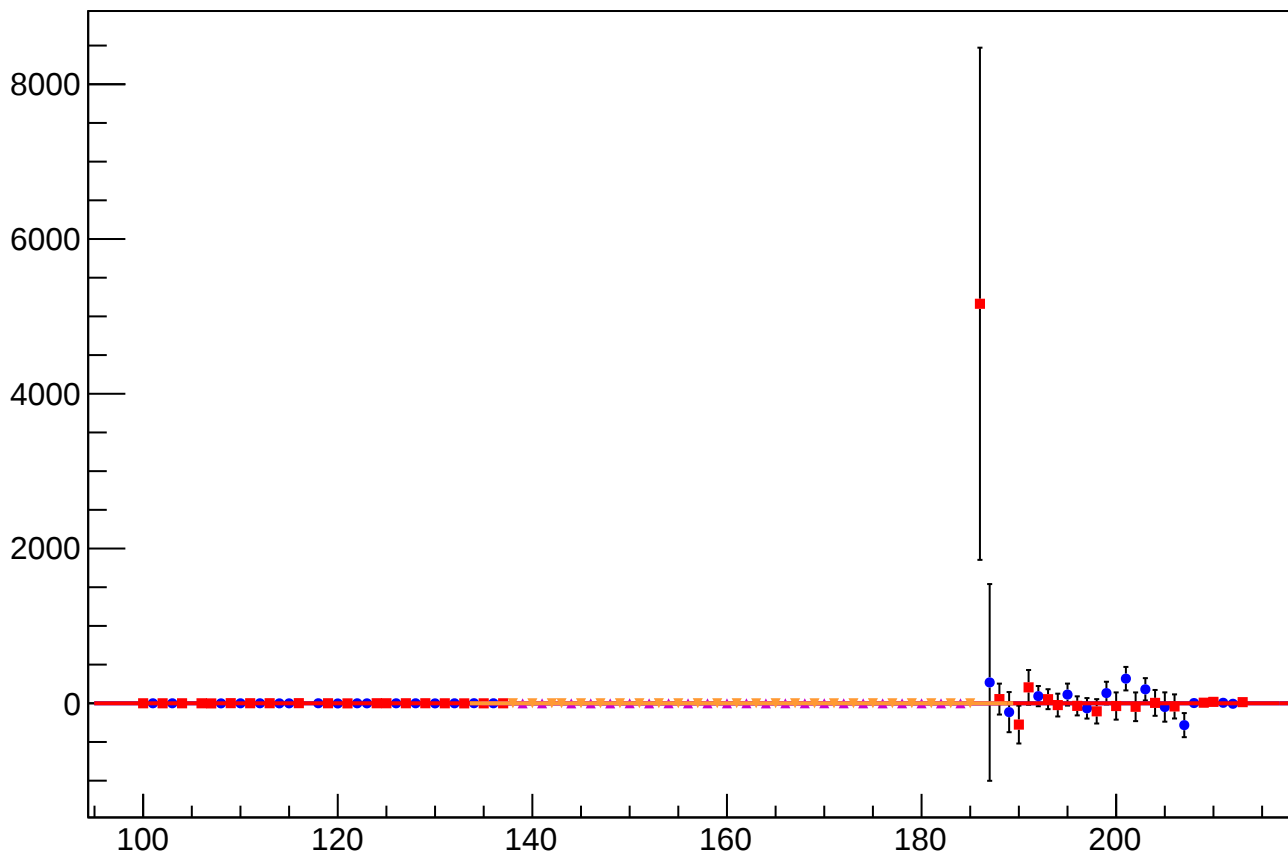
Right: 17.308+/-0.010 χ^2/NDF : 59713608.3/63

In: 19.150+/-0.015 χ^2/NDF : 63280968.2/52

Out: 19.012+/-0.014 χ^2/NDF : 67454584.9/58

All: 19.077+/-0.010 χ^2/NDF : 130735599.2/111

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 28.9/29

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 35.6/33

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

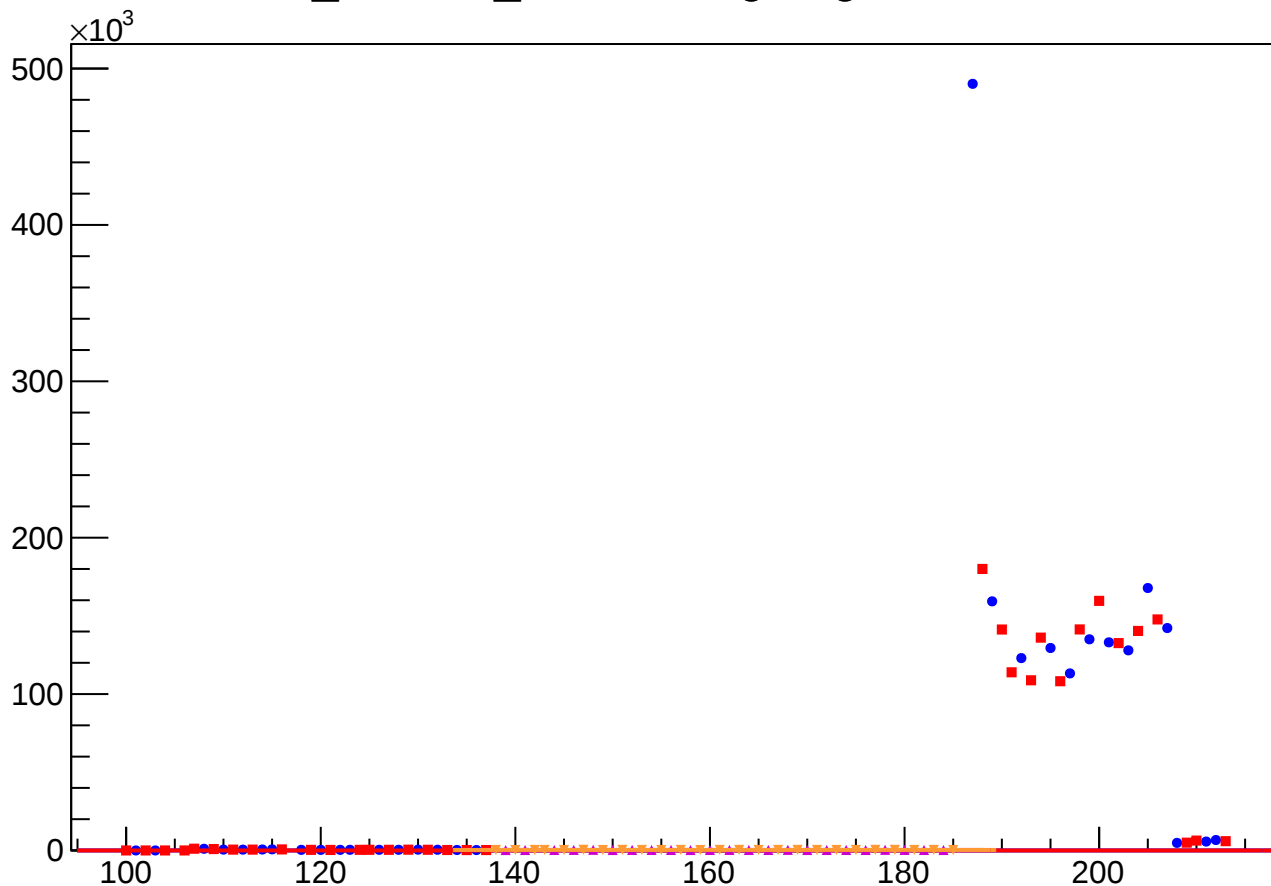
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 64.7/63

In: 0.000 $\pm$ 0.002 χ^2 /NDF:64.6/52

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:56.4/58

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 121.1/111

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.700 $\pm$ 0.001 χ^2/NDF : 28976360.7/29

Left Out: 325.469 $\pm$ 0.054 χ^2/NDF : 350046.8/24

Right Out: 1.730 $\pm$ 0.001 χ^2/NDF : 29942016.2/32

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

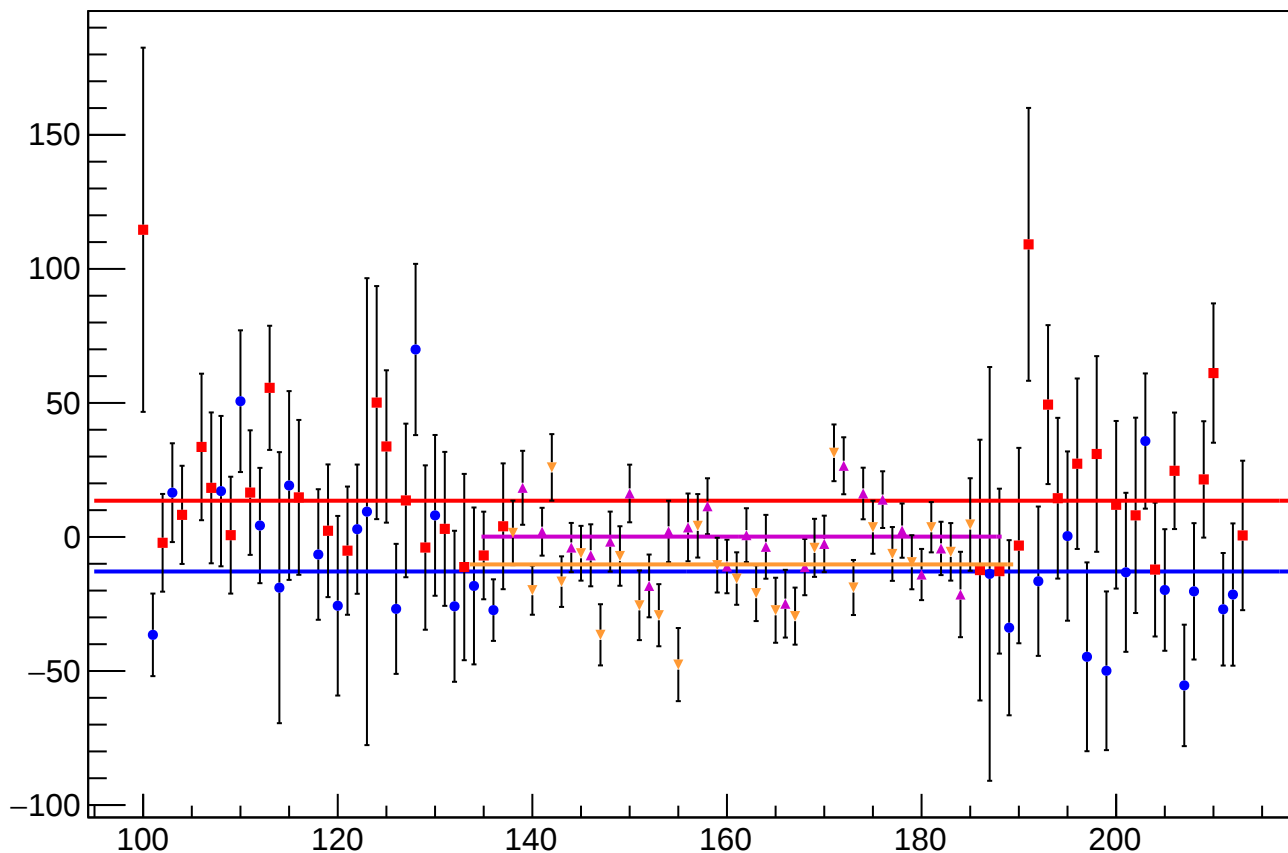
Right: 1.716 $\pm$ 0.001 χ^2/NDF : 58918602.8/62

In: 1.915 $\pm$ 0.001 χ^2/NDF : 63379472.5/52

Out: 1.938 $\pm$ 0.001 χ^2/NDF : 66249509.4/57

All: 1.927 $\pm$ 0.001 χ^2/NDF : 129629119.0/110

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -12.876 ± 4.535 $\chi^2/\text{NDF}: 34.3/29$

Left Out: -10.235 ± 2.167 $\chi^2/\text{NDF}: 58.0/24$

Right Out: 13.526 ± 4.571 $\chi^2/\text{NDF}: 23.7/33$

Left In: 0.130 ± 2.242 $\chi^2/\text{NDF}: 29.8/22$

Left: -5.230 ± 1.558 $\chi^2/\text{NDF}: 98.9/47$

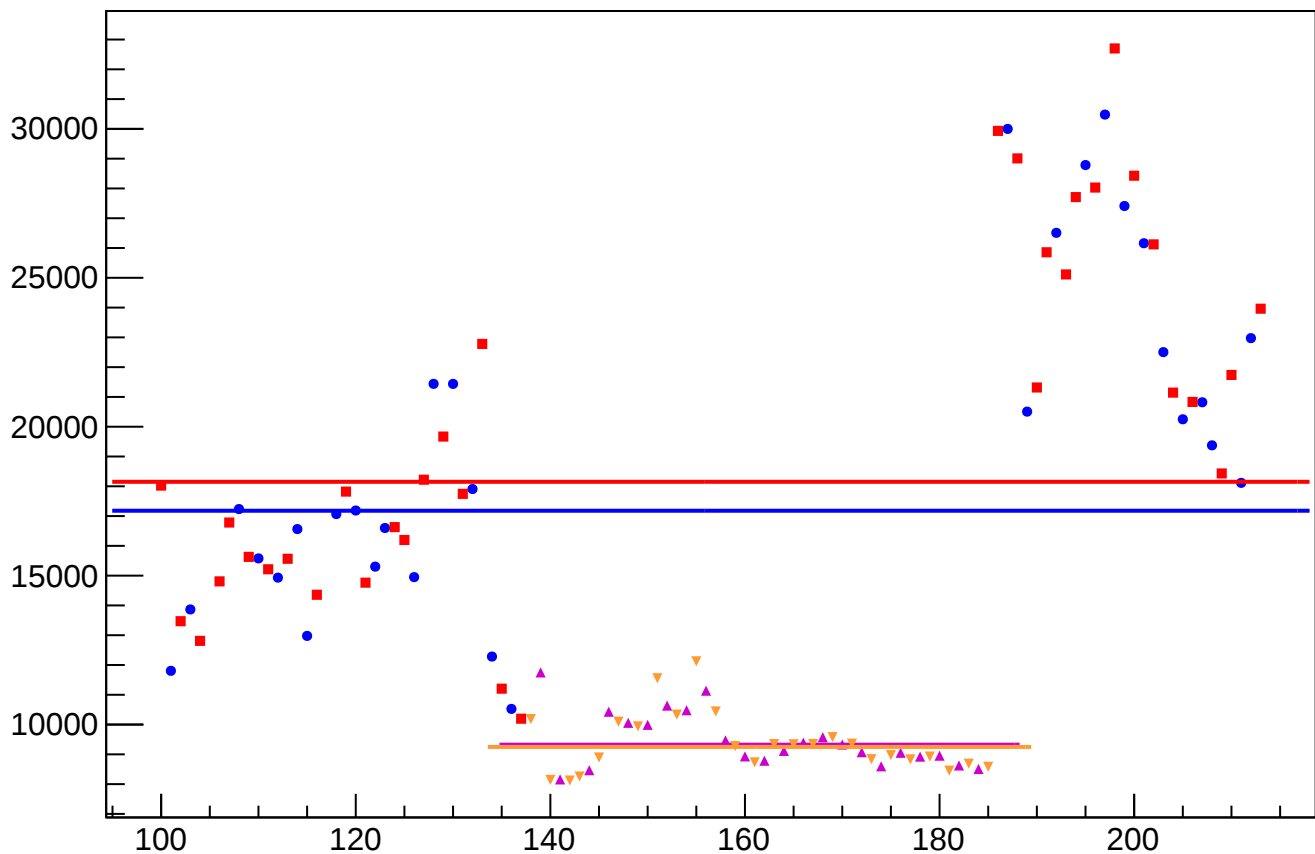
Right: 0.219 ± 3.219 $\chi^2/\text{NDF}: 74.8/63$

In: -2.425 ± 2.010 $\chi^2/\text{NDF}: 70.8/52$

Out: -5.876 ± 1.958 $\chi^2/\text{NDF}: 103.7/58$

All: -4.196 ± 1.402 $\chi^2/\text{NDF}: 176.0/111$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17179.468 $\pm$ 3.206 χ^2 /NDF: 2769582.8/29

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF:332003.4/24

Right Out: 18150.709 $\pm$ 3.232 χ^2 /NDF: 2887452.9/33

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

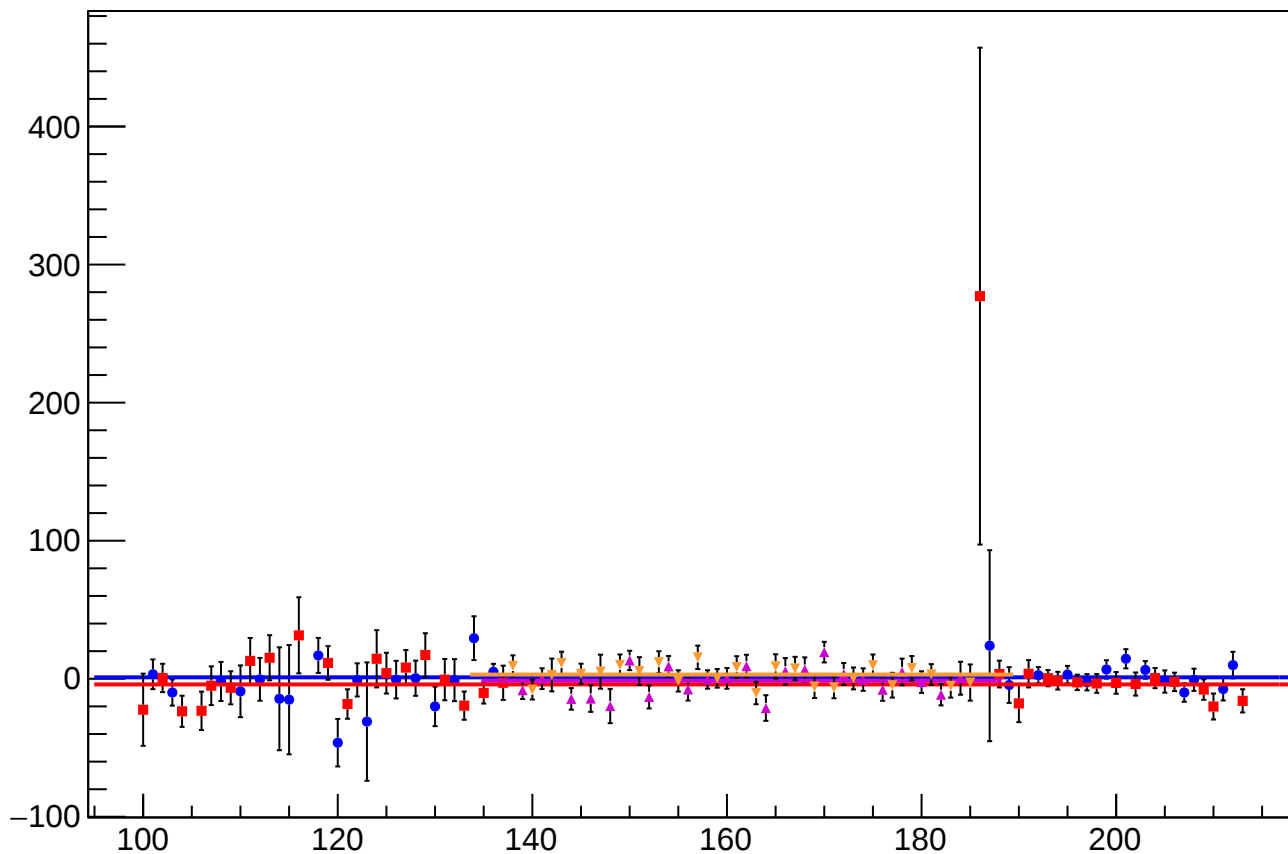
Right: 17661.189 $\pm$ 2.276 χ^2 /NDF: 5702542.5/63

In: 10868.206 $\pm$ 1.421 χ^2 /NDF:7871998.9/52

Out: 10882.280 $\pm$ 1.384 χ^2 /NDF:9412107.4/58

All: 10875.428 $\pm$ 0.992 χ^2 /NDF: 17284156.7

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.057 $\pm$ 1.713 χ^2/NDF : 28.5/29

Left Out: 3.062 $\pm$ 1.659 χ^2/NDF : 18.3/24

Right Out: -4.077 $\pm$ 1.658 χ^2/NDF : 31.2/33

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

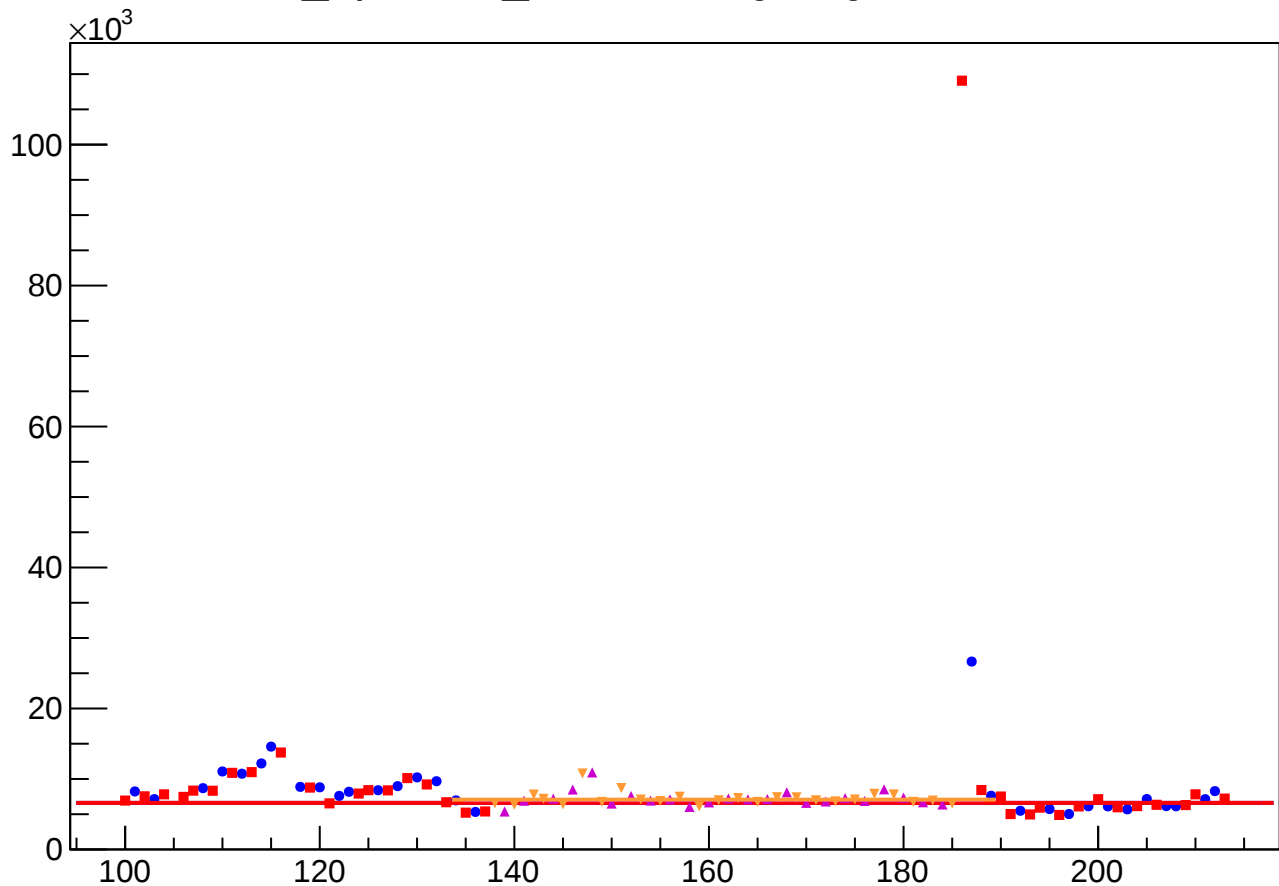
Right: -1.595 $\pm$ 1.191 χ^2/NDF : 64.2/63

In: -0.183 $\pm$ 1.204 χ^2/NDF : 64.9/52

Out: -0.510 $\pm$ 1.173 χ^2/NDF : 58.7/58

All: -0.351 $\pm$ 0.840 χ^2/NDF : 123.6/111

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6606.614 $\pm$ 1.211 χ^2/NDF : 1597532.3/29

Left Out: 7066.826 $\pm$ 1.173 χ^2/NDF : 387449.8/24

Right Out: 6606.523 $\pm$ 1.172 χ^2/NDF : 2150667.3/33

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

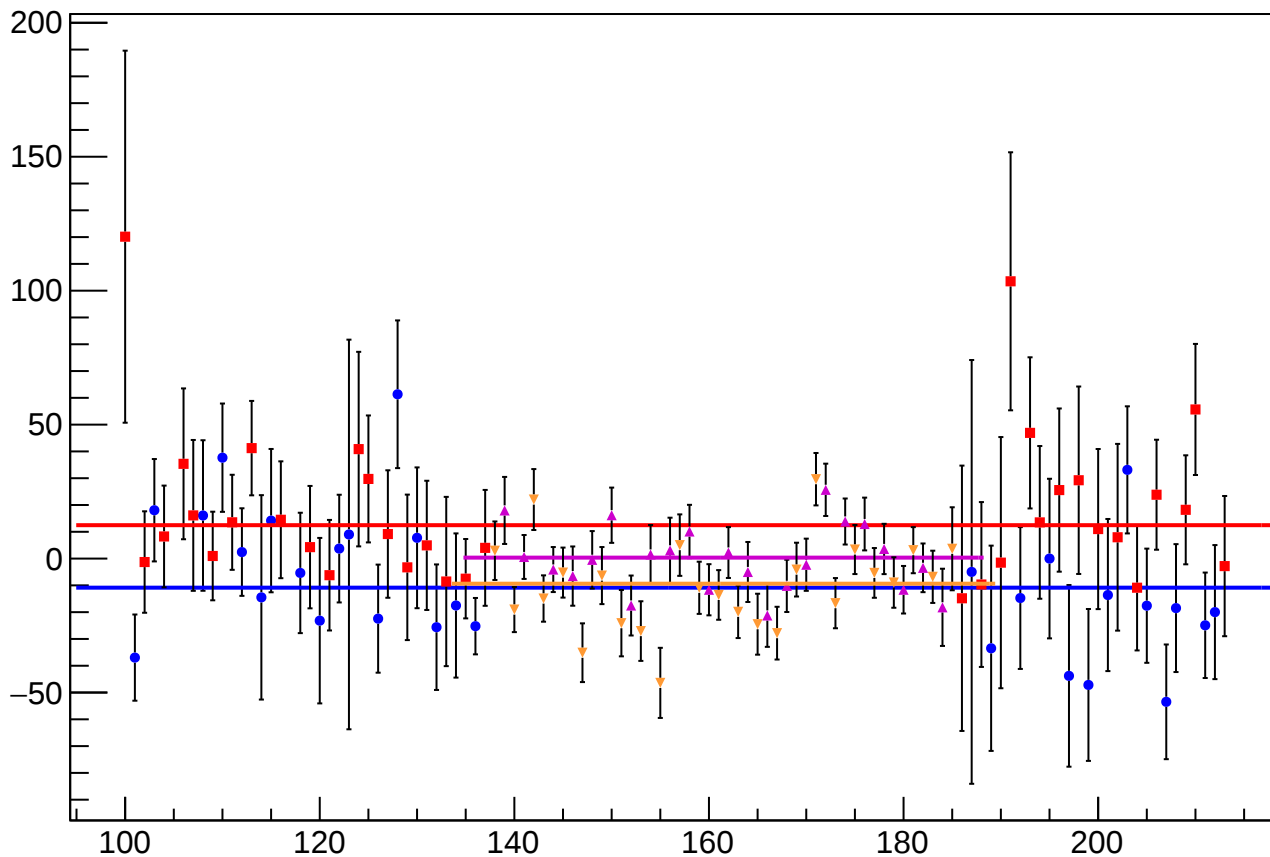
Right: 6606.567 $\pm$ 0.842 χ^2/NDF : 3748199.6/63

In: 6805.892 $\pm$ 0.852 χ^2/NDF : 2201050.0/52

Out: 6836.509 $\pm$ 0.829 χ^2/NDF : 2615170.4/58

All: 6821.609 $\pm$ 0.594 χ^2/NDF : 4816884.0/11

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -10.857 $\pm$ 4.148 χ^2/NDF : 35.3/29

Left Out: -9.376 $\pm$ 2.018 χ^2/NDF : 58.4/24

Right Out: 12.467 $\pm$ 4.145 χ^2/NDF : 23.0/33

Left In: 0.353 $\pm$ 2.092 χ^2/NDF : 29.6/22

Left: -4.688 $\pm$ 1.452 χ^2/NDF : 99.3/47

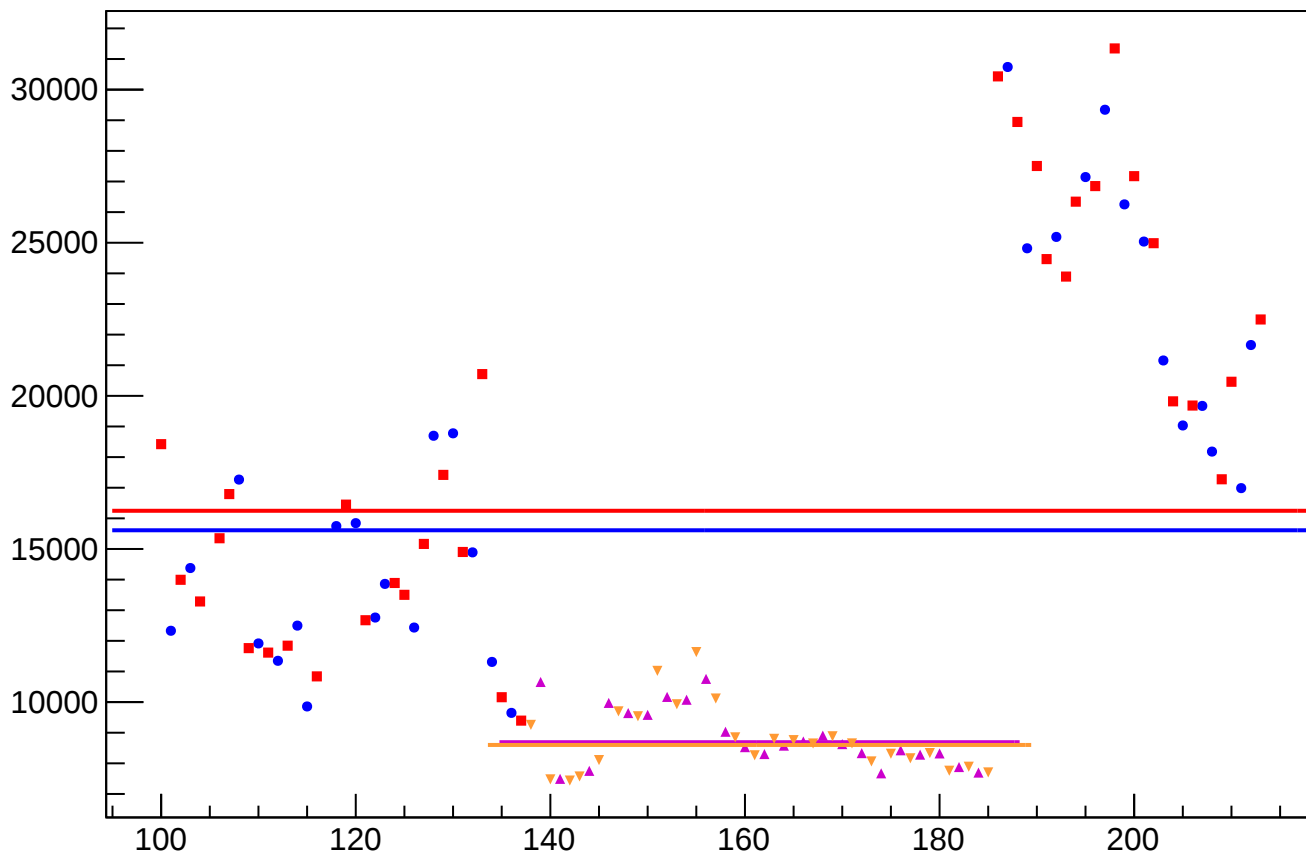
Right: 0.814 $\pm$ 2.932 χ^2/NDF : 74.2/63

In: -1.920 $\pm$ 1.868 χ^2/NDF : 70.8/52

Out: -5.191 $\pm$ 1.814 χ^2/NDF : 103.9/58

All: -3.604 $\pm$ 1.301 χ^2/NDF : 176.3/111

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15610.542 $\pm$ 2.933 χ^2 /NDF: 3210894.6/29

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF:438229.4/24

Right Out: 16247.390 $\pm$ 2.931 χ^2 /NDF: 3666209.4/33

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

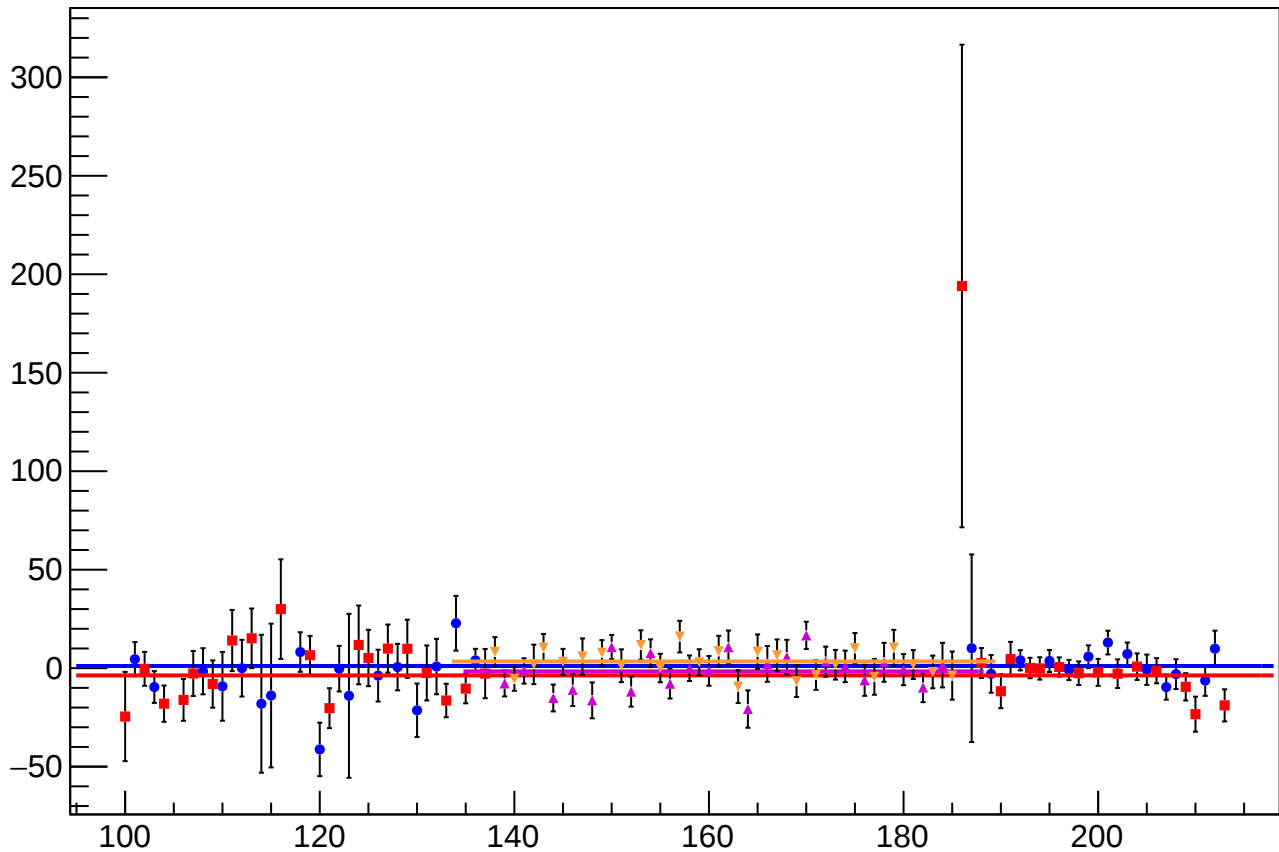
Right: 15929.188 $\pm$ 2.073 χ^2 /NDF: 6900697.0/63

In: 10093.965 $\pm$ 1.321 χ^2 /NDF:8020208.1/52

Out: 10065.554 $\pm$ 1.283 χ^2 /NDF:9608054.0/58

All: 10079.345 $\pm$ 0.920 χ^2 /NDF: 17628500.2

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.104 ± 1.542 χ^2/NDF : 30.2/29

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -3.675 ± 1.474 χ^2/NDF : 35.9/33

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

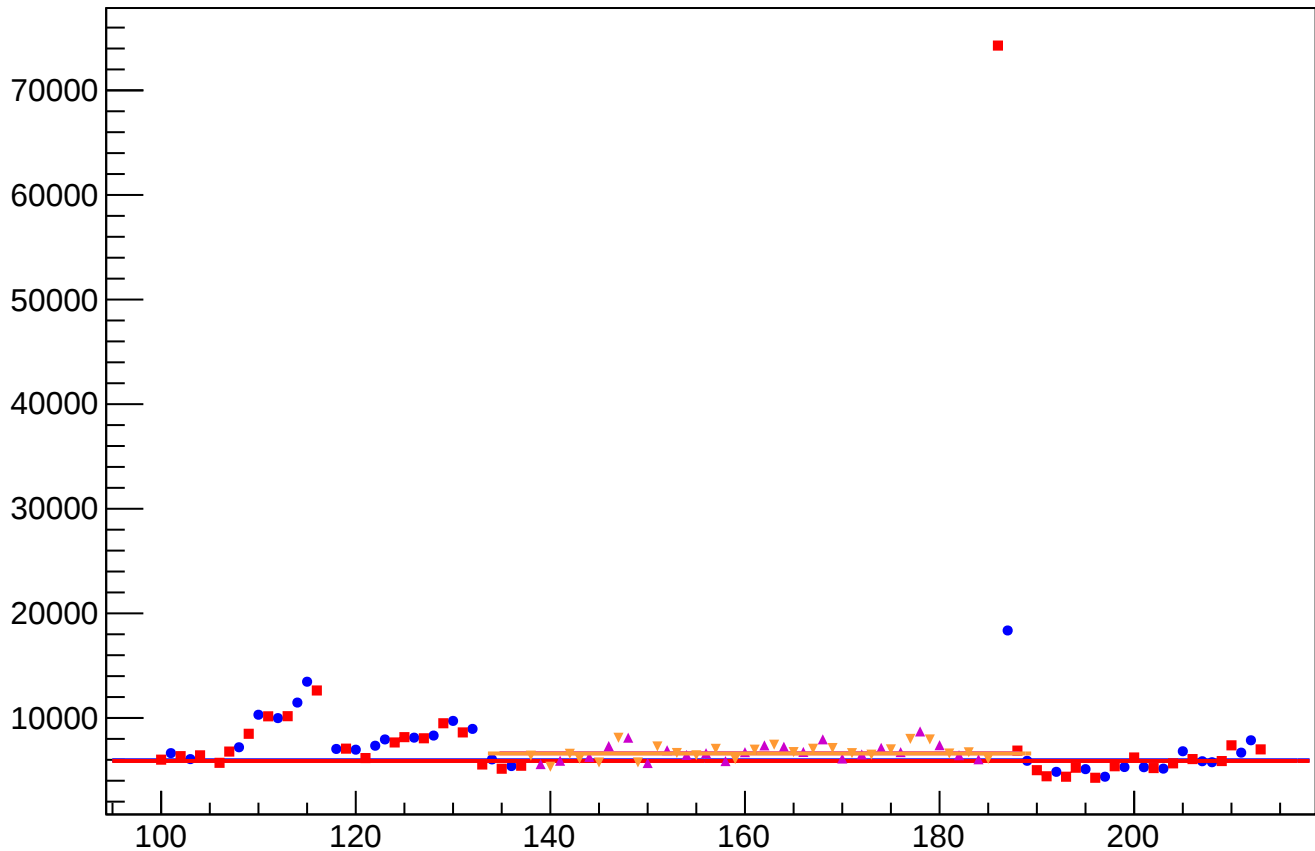
Right: -1.393 ± 1.066 χ^2/NDF : 71.2/63

In: -0.212 ± 1.110 χ^2/NDF : 65.2/52

Out: -0.312 ± 1.068 χ^2/NDF : 63.7/58

All: -0.264 ± 0.770 χ^2/NDF : 128.9/111

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5954.565+/-1.091 χ^2/NDF : 1597508.0/29

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5889.548+/-1.043 χ^2/NDF : 2232326.0/33

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

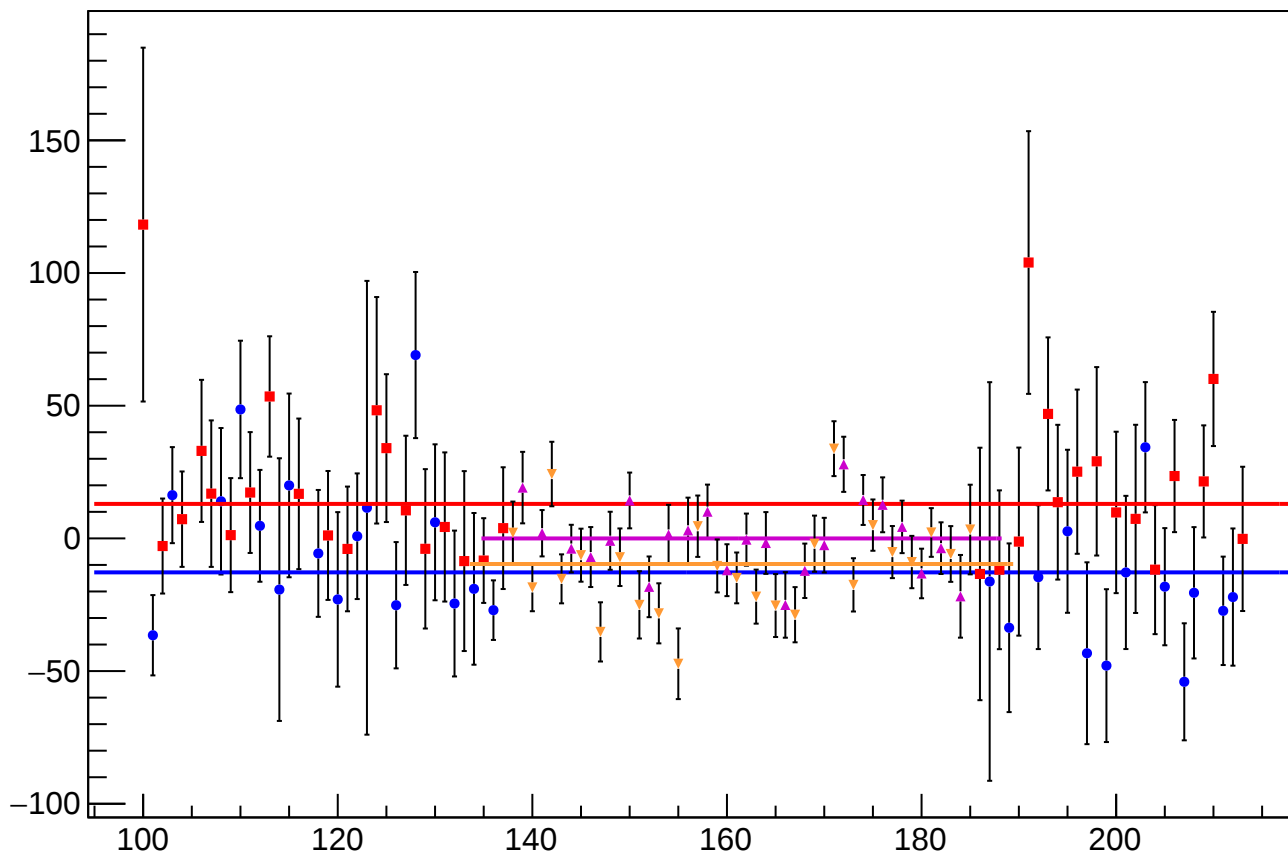
Right: 5920.592+/-0.754 χ^2/NDF : 3831690.9/63

In: 6279.447+/-0.785 χ^2/NDF : 2211898.8/52

Out: 6230.306+/-0.756 χ^2/NDF : 2855686.8/58

All: 6253.936+/-0.544 χ^2/NDF : 5069619.9/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -12.804 ± 4.433 $\chi^2/\text{NDF}: 34.1/29$

Left Out: -9.649 ± 2.118 $\chi^2/\text{NDF}: 59.8/24$

Right Out: 12.996 ± 4.470 $\chi^2/\text{NDF}: 23.7/33$

Left In: -0.019 ± 2.192 $\chi^2/\text{NDF}: 30.6/22$

Left: -4.999 ± 1.523 $\chi^2/\text{NDF}: 100.4/47$

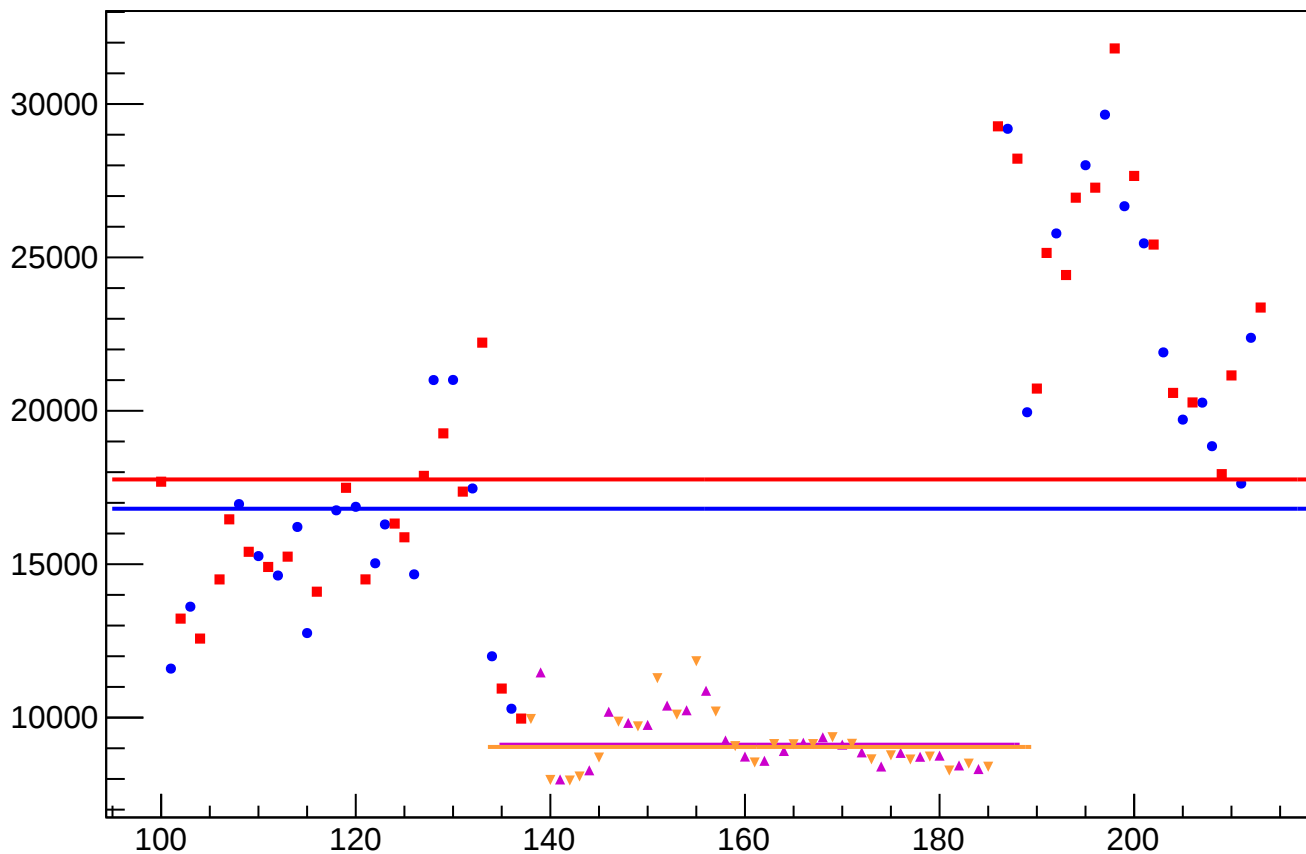
Right: -0.010 ± 3.148 $\chi^2/\text{NDF}: 74.7/63$

In: -2.531 ± 1.965 $\chi^2/\text{NDF}: 71.4/52$

Out: -5.496 ± 1.914 $\chi^2/\text{NDF}: 104.5/58$

All: -4.052 ± 1.371 $\chi^2/\text{NDF}: 177.1/111$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16808.156+/-3.135 χ^2/NDF : 2725914.9/29

Left Out: 9043.485+/-1.498 χ^2/NDF : 328192.2/24

Right Out: 17762.773+/-3.161 χ^2/NDF : 2836169.7/33

Left In: 9116.921+/-1.550 χ^2/NDF : 277594.8/22

Left: 9078.947+/-1.077 χ^2/NDF : 606947.8/47

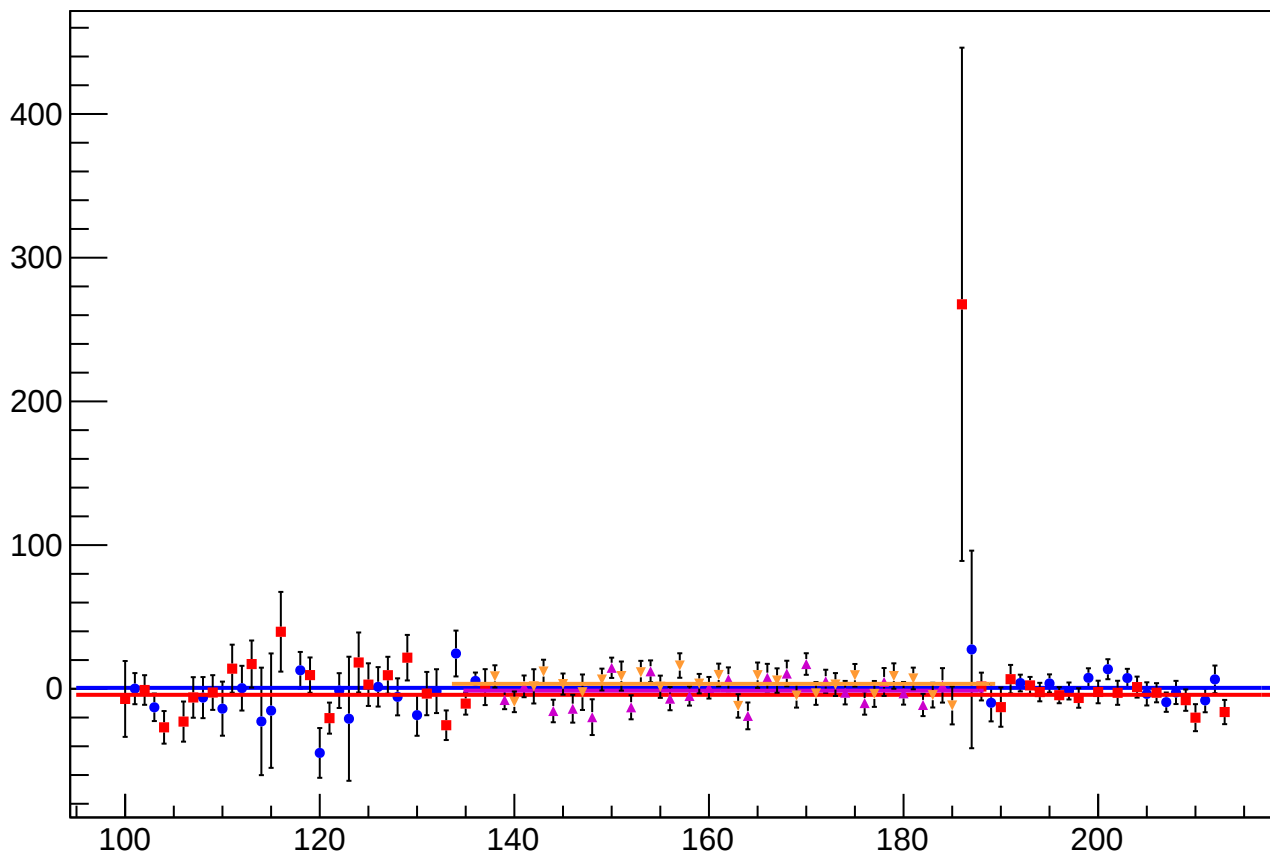
Right: 17281.541+/-2.226 χ^2/NDF : 5608072.1/63

In: 10627.879+/-1.389 χ^2/NDF : 7840768.4/52

Out: 10642.547+/-1.354 χ^2/NDF : 9379207.7/58

All: 10635.405+/-0.970 χ^2/NDF : 17220033.3

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.652 ± 1.719 $\chi^2/\text{NDF}: 27.6/29$

Left Out: 3.439 ± 1.666 $\chi^2/\text{NDF}: 18.9/24$

Right Out: -4.188 ± 1.664 $\chi^2/\text{NDF}: 36.5/33$

Left In: -1.291 ± 1.701 $\chi^2/\text{NDF}: 36.5/22$

Left: 1.123 ± 1.190 $\chi^2/\text{NDF}: 59.4/47$

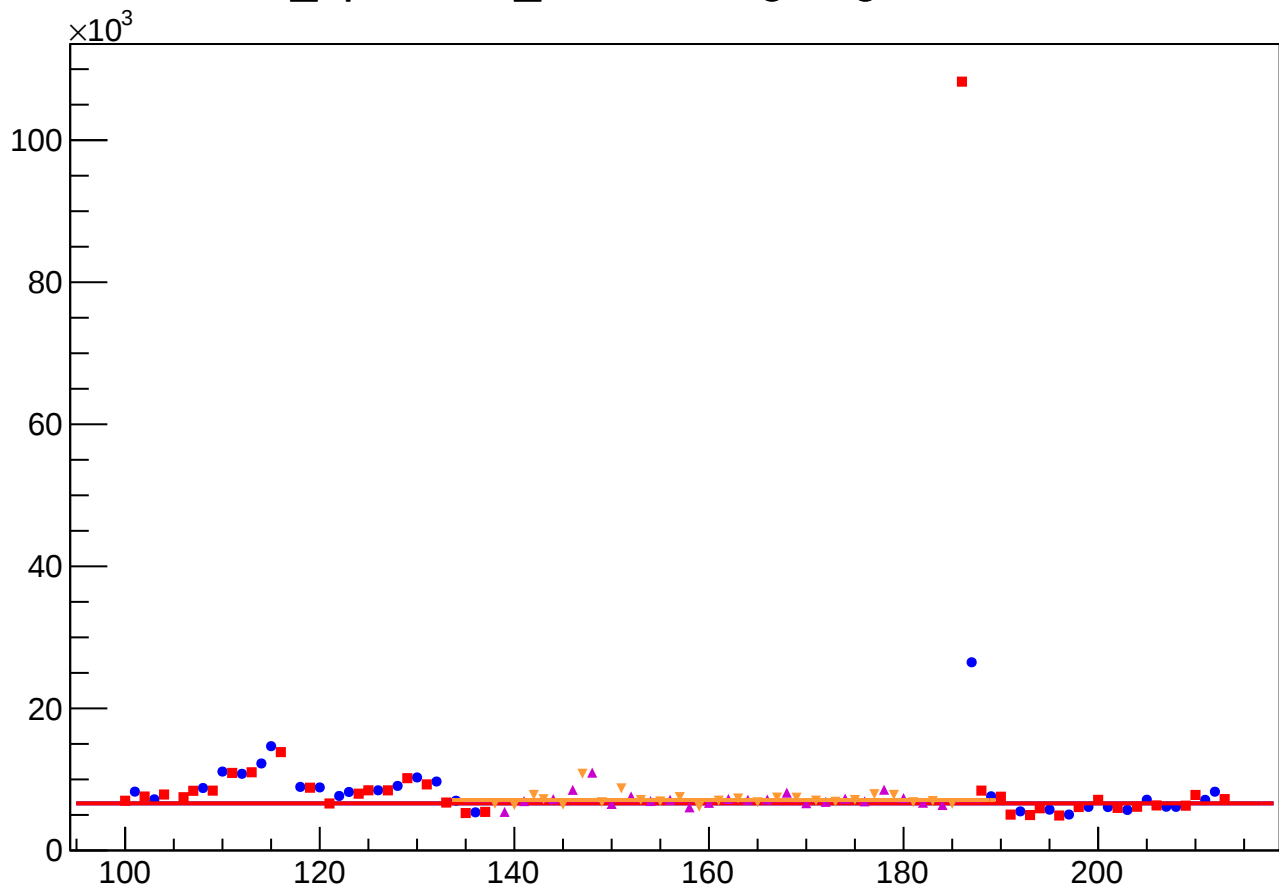
Right: -1.846 ± 1.195 $\chi^2/\text{NDF}: 68.3/63$

In: -0.329 ± 1.209 $\chi^2/\text{NDF}: 64.8/52$

Out: -0.380 ± 1.177 $\chi^2/\text{NDF}: 65.9/58$

All: -0.355 ± 0.843 $\chi^2/\text{NDF}: 130.8/111$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6627.267 $\pm$ 1.215 χ^2/NDF : 1604163.3/29

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6631.117 $\pm$ 1.176 χ^2/NDF : 2154217.9/33

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

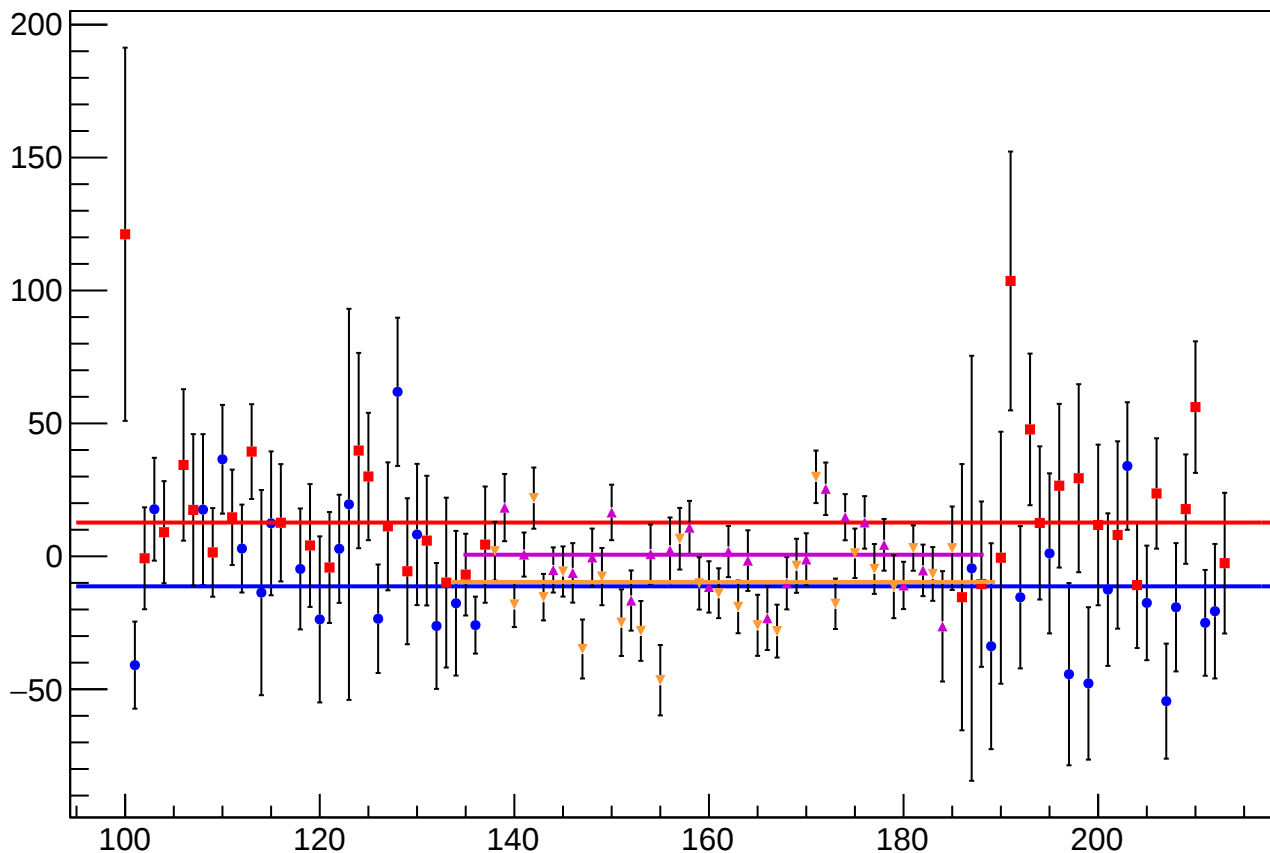
Right: 6629.255 $\pm$ 0.845 χ^2/NDF : 3758386.4/63

In: 6832.582 $\pm$ 0.855 χ^2/NDF : 2201709.0/52

Out: 6864.567 $\pm$ 0.832 χ^2/NDF : 2615659.3/58

All: 6848.999 $\pm$ 0.596 χ^2/NDF : 4818087.0/11

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -11.294 ± 4.200 $\chi^2/\text{NDF}: 36.0/29$

Left Out: -9.640 ± 2.057 $\chi^2/\text{NDF}: 57.6/24$

Right Out: 12.708 ± 4.199 $\chi^2/\text{NDF}: 22.0/33$

Left In: 0.599 ± 2.135 $\chi^2/\text{NDF}: 29.7/22$

Left: -4.710 ± 1.481 $\chi^2/\text{NDF}: 99.2/47$

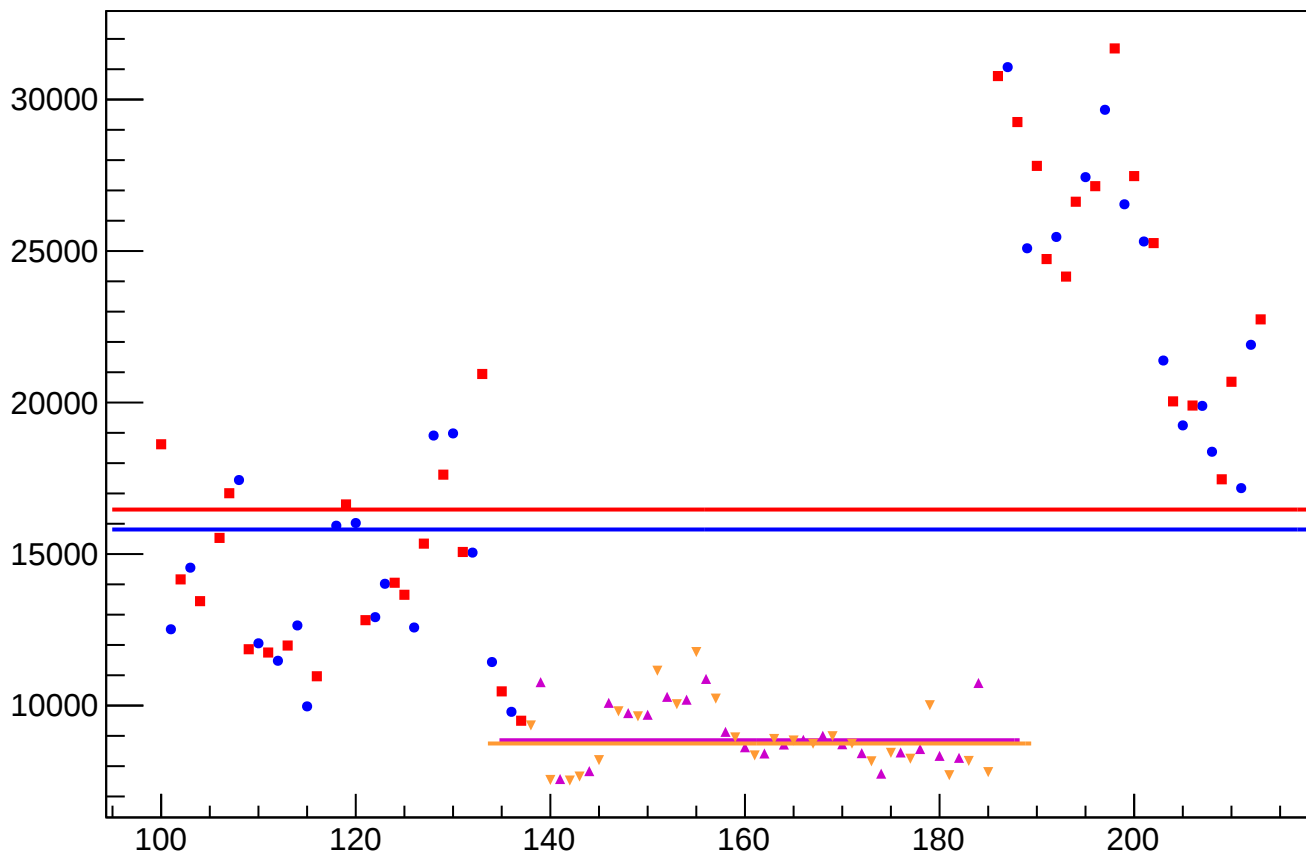
Right: 0.709 ± 2.970 $\chi^2/\text{NDF}: 74.3/63$

In: -1.843 ± 1.903 $\chi^2/\text{NDF}: 72.0/52$

Out: -5.315 ± 1.847 $\chi^2/\text{NDF}: 102.5/58$

All: -3.630 ± 1.326 $\chi^2/\text{NDF}: 176.2/111$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15810.578 $\pm$ 2.970 χ^2 /NDF: 3188644.5/29

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF:463394.1/24

Right Out: 16468.758 $\pm$ 2.969 χ^2 /NDF: 3627809.8/33

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

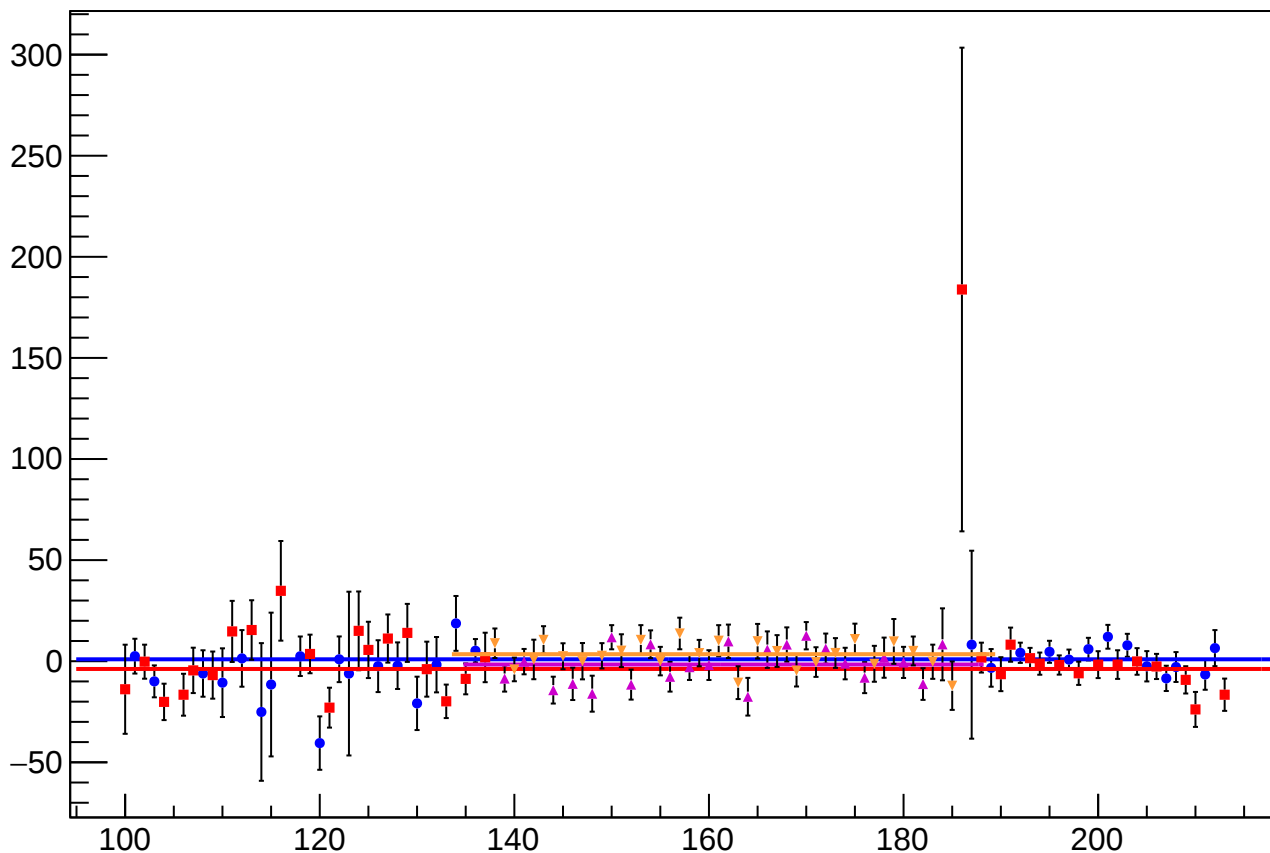
Right: 16139.716 $\pm$ 2.100 χ^2 /NDF: 6841015.1/63

In: 10283.744 $\pm$ 1.346 χ^2 /NDF:7914239.7/52

Out: 10242.629 $\pm$ 1.306 χ^2 /NDF:9542539.1/58

All: 10262.576 $\pm$ 0.937 χ^2 /NDF: 17457259.4

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.946 ± 1.504 χ^2/NDF : 29.7/29

Left Out: 3.473 ± 1.524 χ^2/NDF : 15.8/24

Right Out: -3.835 ± 1.437 χ^2/NDF : 40.1/33

Left In: -1.638 ± 1.578 χ^2/NDF : 33.7/22

Left: 1.006 ± 1.096 χ^2/NDF : 54.9/47

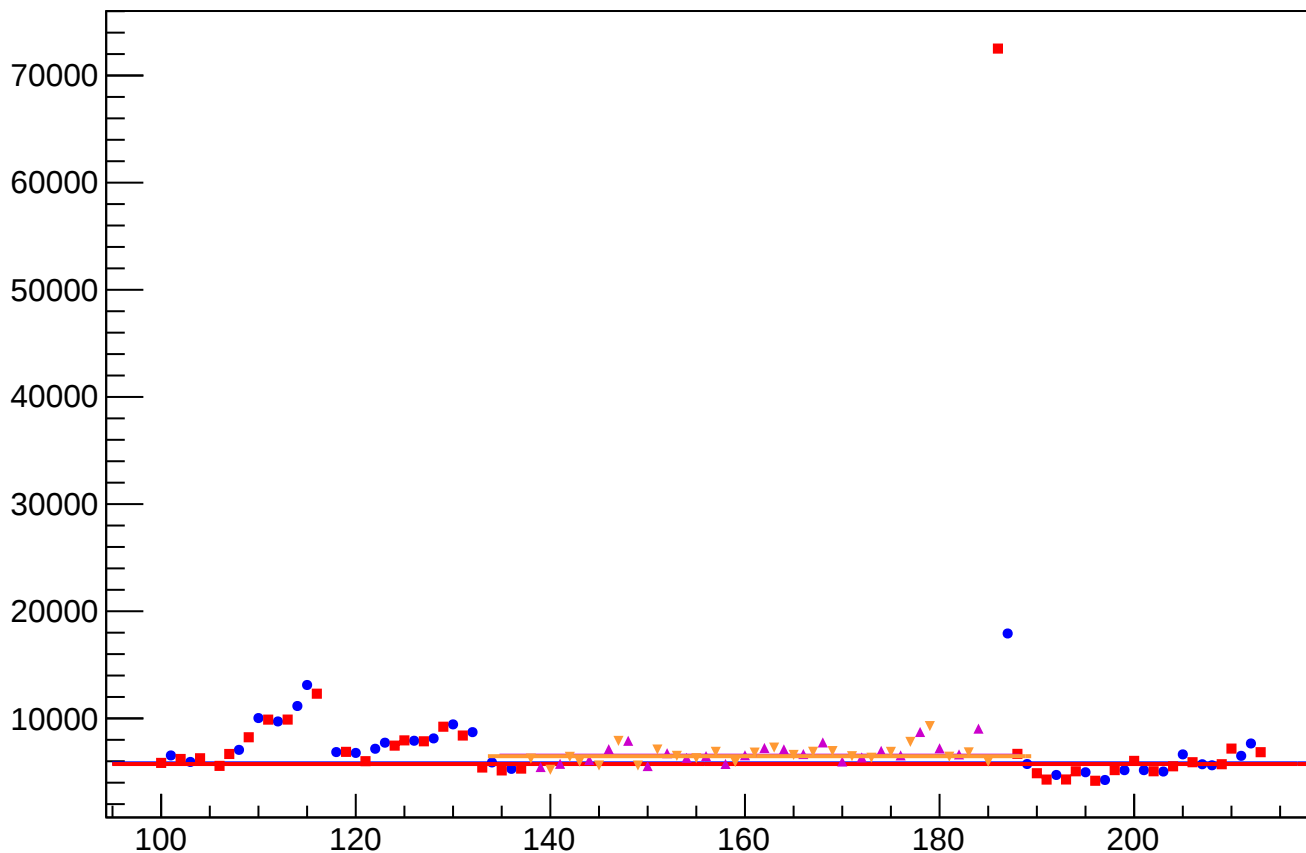
Right: -1.553 ± 1.039 χ^2/NDF : 75.0/63

In: -0.284 ± 1.089 χ^2/NDF : 64.8/52

Out: -0.395 ± 1.046 χ^2/NDF : 68.0/58

All: -0.342 ± 0.754 χ^2/NDF : 132.8/111

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5805.030+/-1.064

χ^2/NDF : 1603240.3/29

Left Out: 6471.976+/-1.078

χ^2/NDF : 490282.9/24

Right Out: 5739.764+/-1.016

χ^2/NDF : 2223735.9/33

Left In: 6521.975+/-1.116

χ^2/NDF : 480034.7/22

Left: 6496.112+/-0.775

χ^2/NDF : 971356.4/47

Right: 5770.914+/-0.735

χ^2/NDF : 3828944.1/63

In: 6146.397+/-0.770

χ^2/NDF : 2299581.1/52

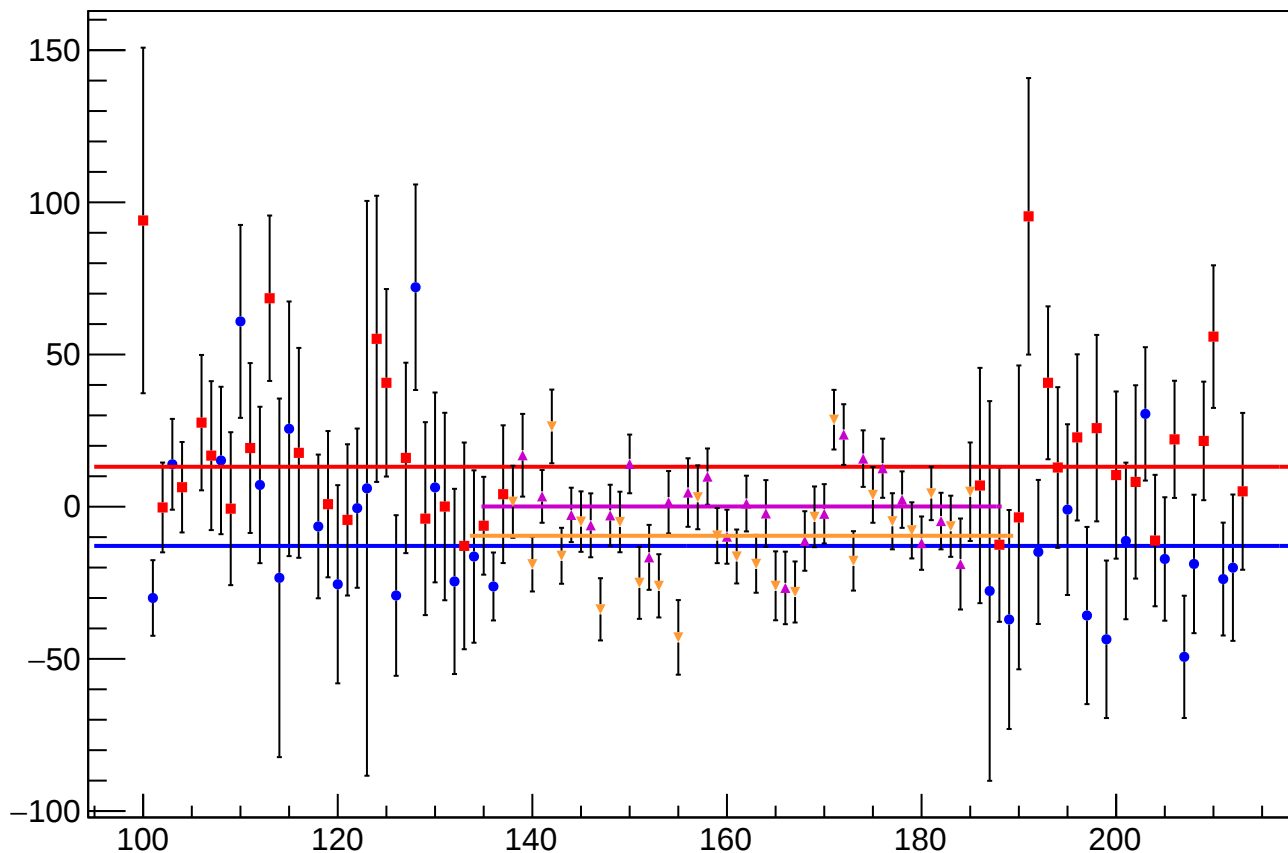
Out: 6084.408+/-0.739

χ^2/NDF : 2958291.5/58

All: 6114.154+/-0.533

χ^2/NDF : 5261244.7/11

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -12.888 $\pm$ 4.230 χ^2/NDF : 33.0/29

Left Out: -9.554 $\pm$ 2.012 χ^2/NDF : 59.5/24

Right Out: 13.122 $\pm$ 4.285 χ^2/NDF : 24.1/33

Left In: 0.072 $\pm$ 2.073 χ^2/NDF : 29.8/22

Left: -4.885 $\pm$ 1.444 χ^2/NDF : 100.5/47

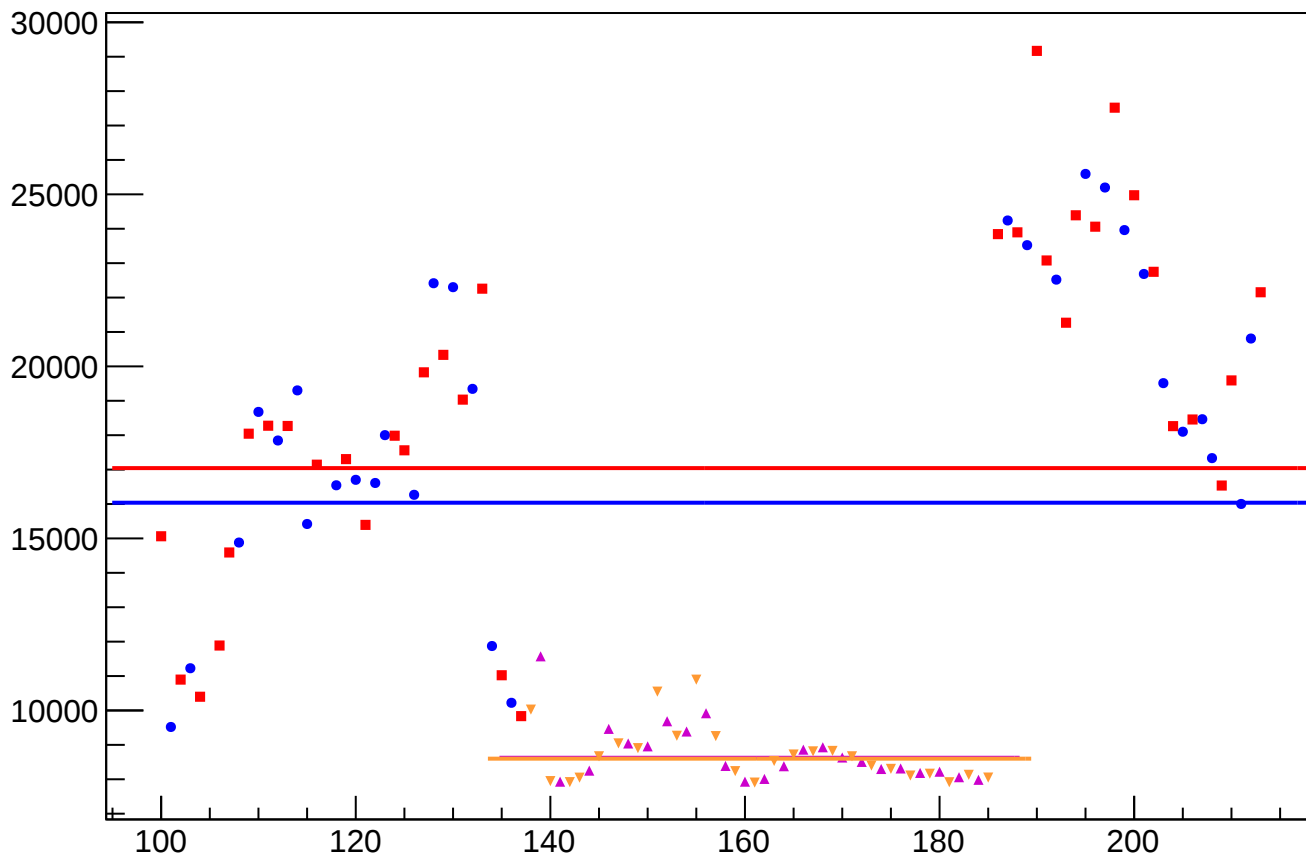
Right: -0.050 $\pm$ 3.010 χ^2/NDF : 75.8/63

In: -2.438 $\pm$ 1.861 χ^2/NDF : 70.4/52

Out: -5.458 $\pm$ 1.821 χ^2/NDF : 106.6/58

All: -3.981 $\pm$ 1.302 χ^2/NDF : 178.4/111

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16037.611 $\pm$ 2.991 χ^2 /NDF: 2767192.3/29

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF: 249070.5/24

Right Out: 17043.474 $\pm$ 3.030 χ^2 /NDF: 2766167.5/33

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

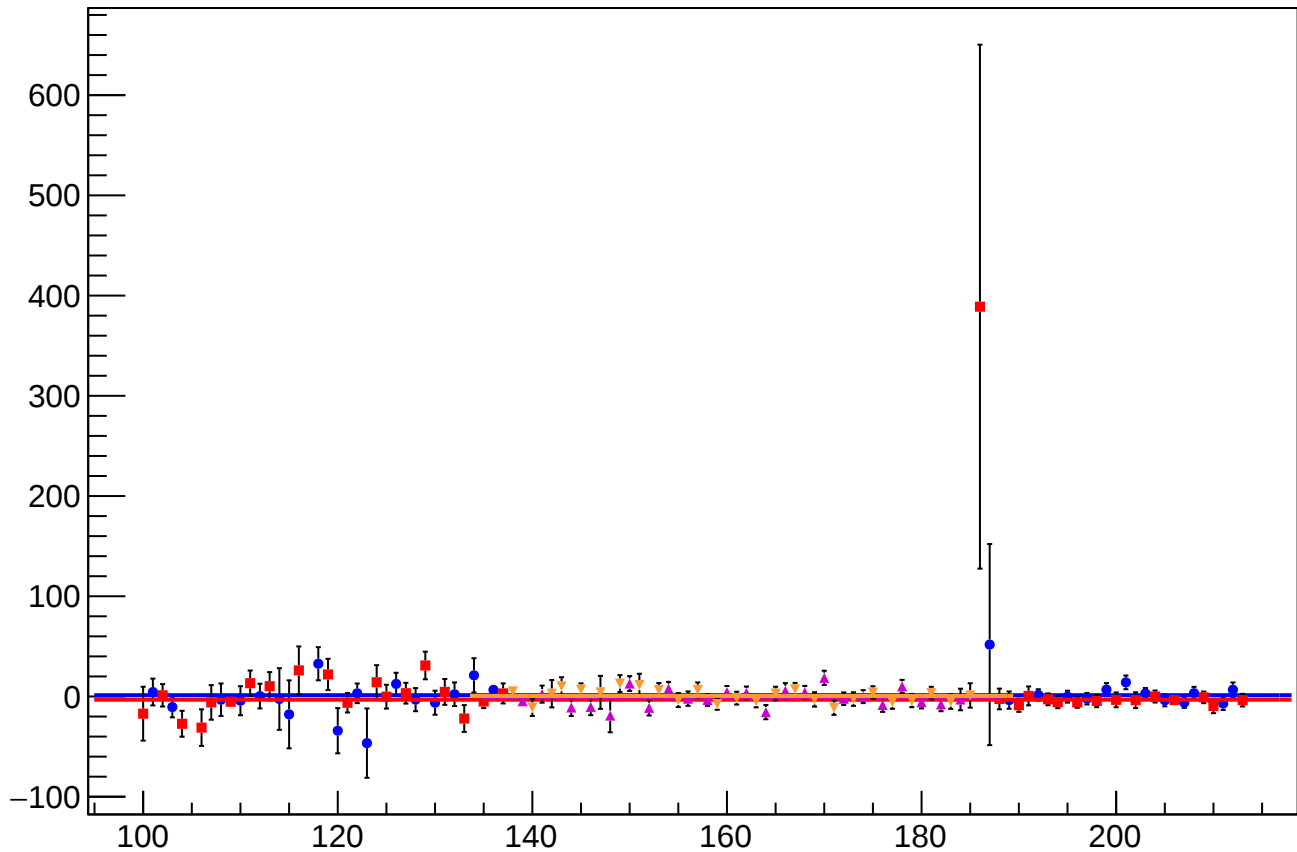
Right: 16534.083 $\pm$ 2.128 χ^2 /NDF: 5589181.0/63

In: 10060.449 $\pm$ 1.316 χ^2 /NDF: 7956932.9/52

Out: 10124.376 $\pm$ 1.288 χ^2 /NDF: 9380739.6/58

All: 10093.111 $\pm$ 0.920 χ^2 /NDF: 17338877.9

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.282 $\pm$ 1.499 χ^2/NDF : 24.7/29

Left Out: 0.528 $\pm$ 1.418 χ^2/NDF : 19.5/24

Right Out: -3.210 $\pm$ 1.407 χ^2/NDF : 28.5/33

Left In: -1.050 $\pm$ 1.396 χ^2/NDF : 32.5/22

Left: -0.273 $\pm$ 0.995 χ^2/NDF : 52.6/47

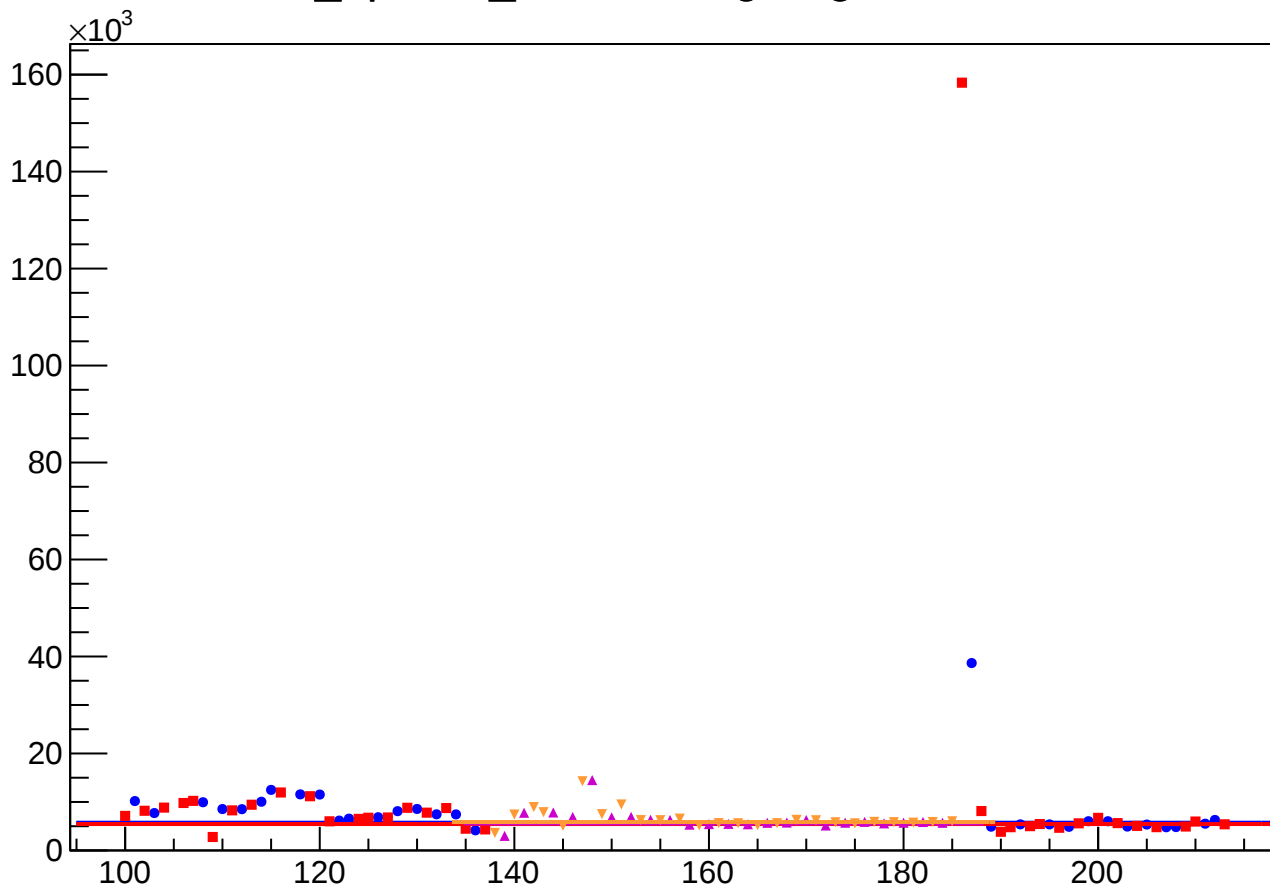
Right: -1.106 $\pm$ 1.026 χ^2/NDF : 58.0/63

In: 0.033 $\pm$ 1.021 χ^2/NDF : 58.5/52

Out: -1.355 $\pm$ 0.999 χ^2/NDF : 51.5/58

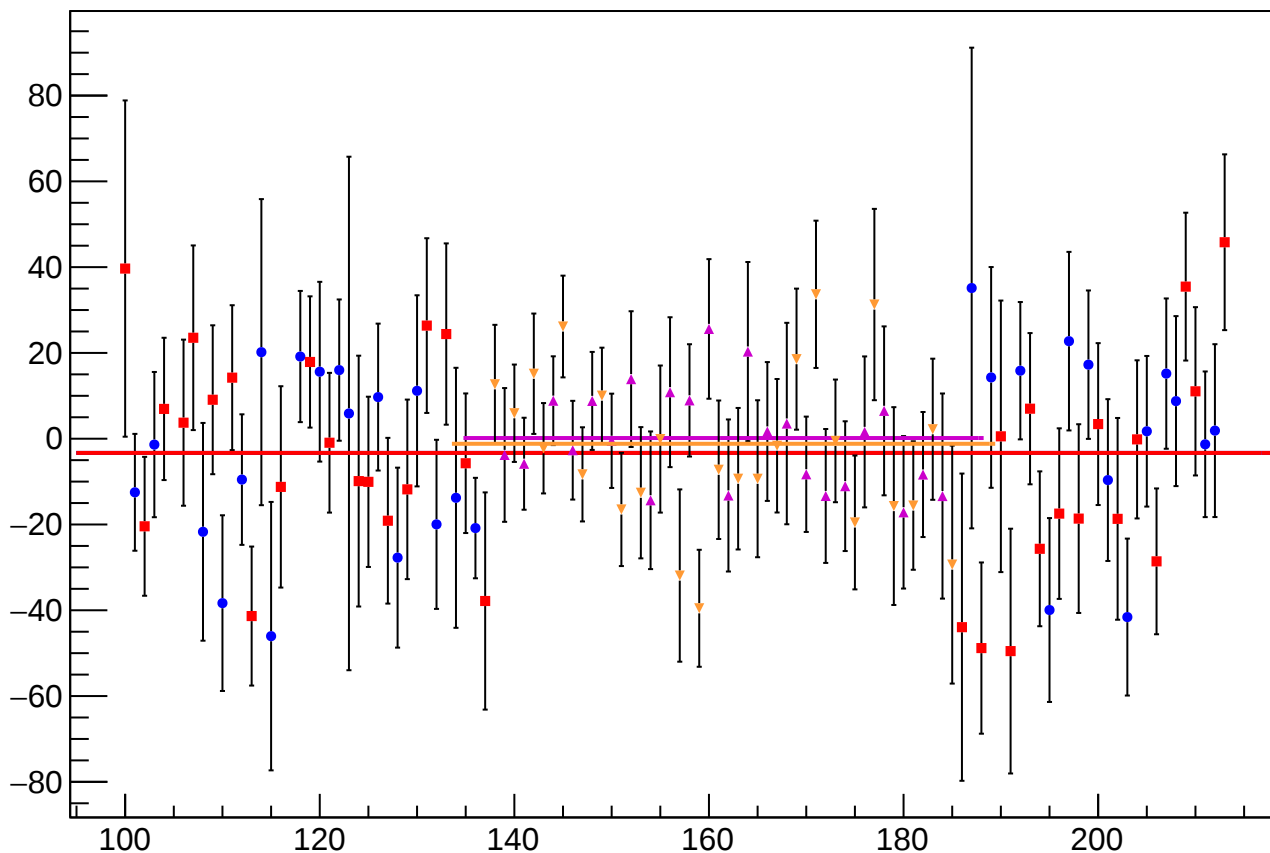
All: -0.677 $\pm$ 0.714 χ^2/NDF : 111.0/111

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5722.541 $\pm$ 1.060	χ^2/NDF : 2110132.5/29	Left: 5713.698 $\pm$ 0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605 $\pm$ 1.002	χ^2/NDF : 1690049.2/24	Right: 5575.013 $\pm$ 0.726	χ^2/NDF : 5608622.8/63
Right Out: 5445.005 $\pm$ 0.995	χ^2/NDF : 3462052.7/33	In: 5641.532 $\pm$ 0.722	χ^2/NDF : 4283822.0/52
Left In: 5571.330 $\pm$ 0.987	χ^2/NDF : 2162788.3/22	Out: 5651.286 $\pm$ 0.706	χ^2/NDF : 5238677.5/58
		All: 5646.518 $\pm$ 0.505	χ^2/NDF : 9522592.8/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.313 ± 3.483 $\chi^2/\text{NDF}: 30.6/29$

Left Out: -1.182 ± 2.939 $\chi^2/\text{NDF}: 33.7/24$

Right Out: -3.314 ± 3.374 $\chi^2/\text{NDF}: 46.4/33$

Left In: 0.157 ± 3.058 $\chi^2/\text{NDF}: 11.5/22$

Left: -0.539 ± 2.119 $\chi^2/\text{NDF}: 45.3/47$

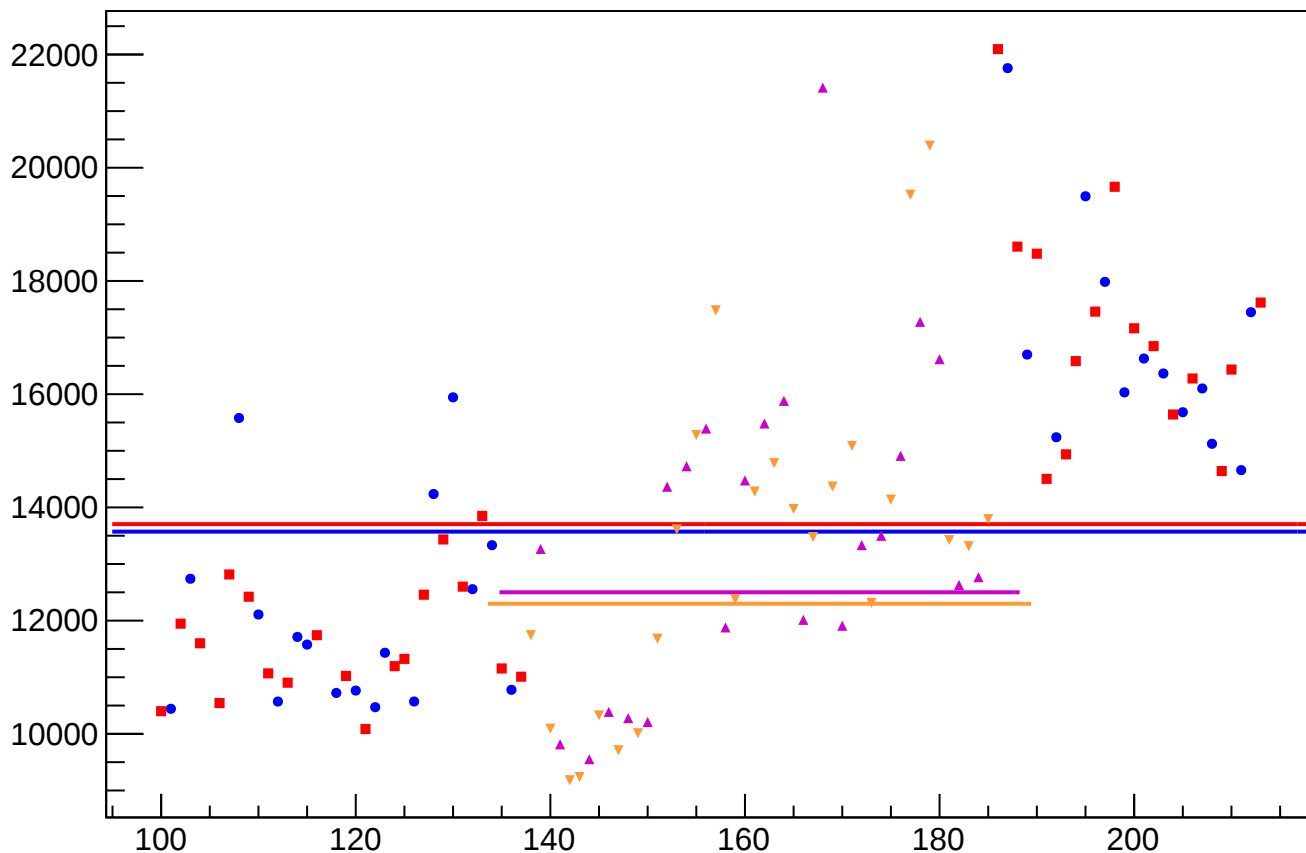
Right: -3.314 ± 2.423 $\chi^2/\text{NDF}: 77.0/63$

In: -1.354 ± 2.298 $\chi^2/\text{NDF}: 42.7/52$

Out: -2.102 ± 2.216 $\chi^2/\text{NDF}: 80.3/58$

All: -1.741 ± 1.595 $\chi^2/\text{NDF}: 123.0/111$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13572.364 $\pm$ 2.463

χ^2/NDF : 1249758.7/29

Left: 12395.720 $\pm$ 1.498 χ^2/NDF : 2868458.0/47

Right: 13640.538 $\pm$ 1.714 χ^2/NDF : 2645888.6/63

Left Out: 12298.676 $\pm$ 2.078

χ^2/NDF : 1506026.8/24

In: 12967.273 $\pm$ 1.625 χ^2/NDF : 2714552.8/52

Right Out: 13704.527 $\pm$ 2.386

χ^2/NDF : 1394644.3/33

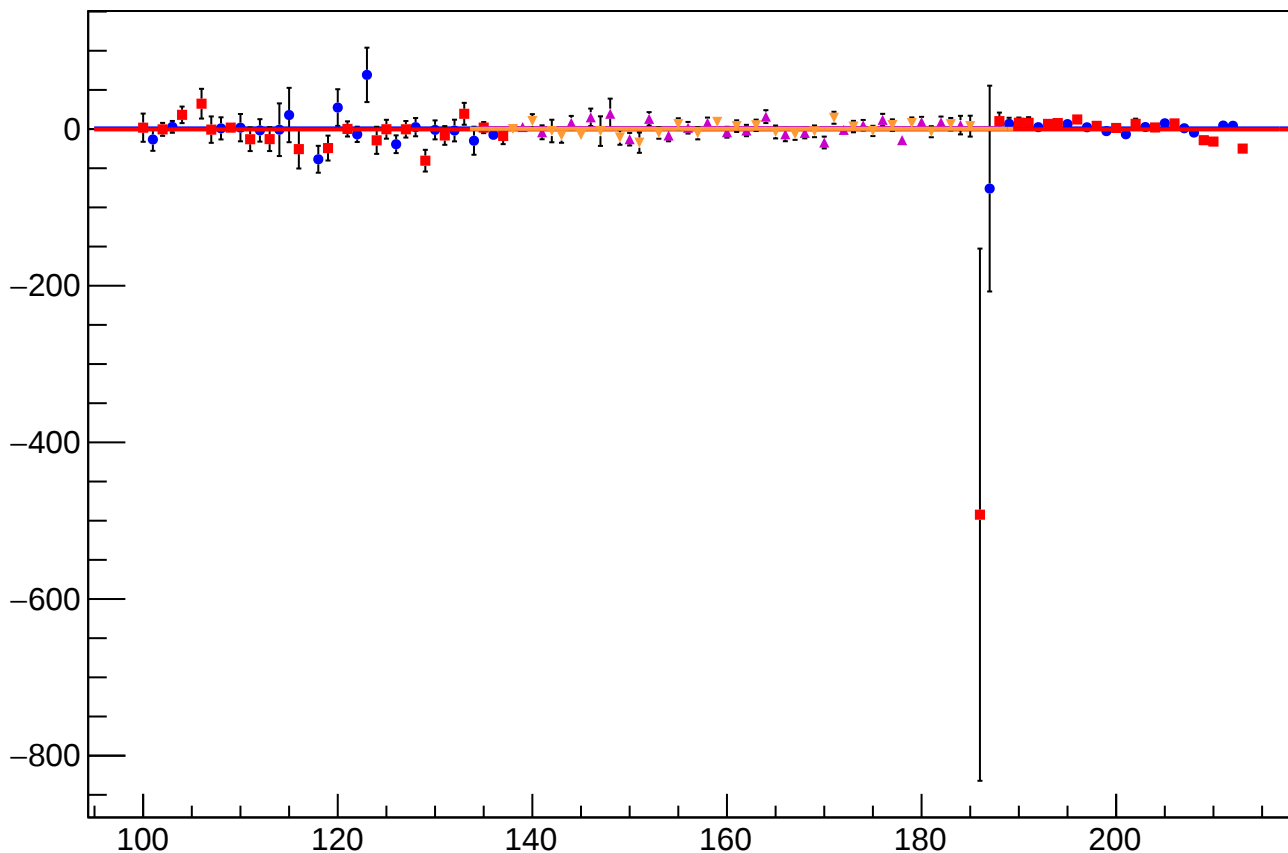
Out: 12905.095 $\pm$ 1.567 χ^2/NDF : 3098089.7/58

Left In: 12500.795 $\pm$ 2.162

χ^2/NDF : 1357889.1/22

All: 12935.058 $\pm$ 1.128 χ^2/NDF : 5813401.2/111

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.864 ± 1.226 $\chi^2/\text{NDF}: 29.5/29$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: -0.468 ± 1.199 $\chi^2/\text{NDF}: 90.8/33$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

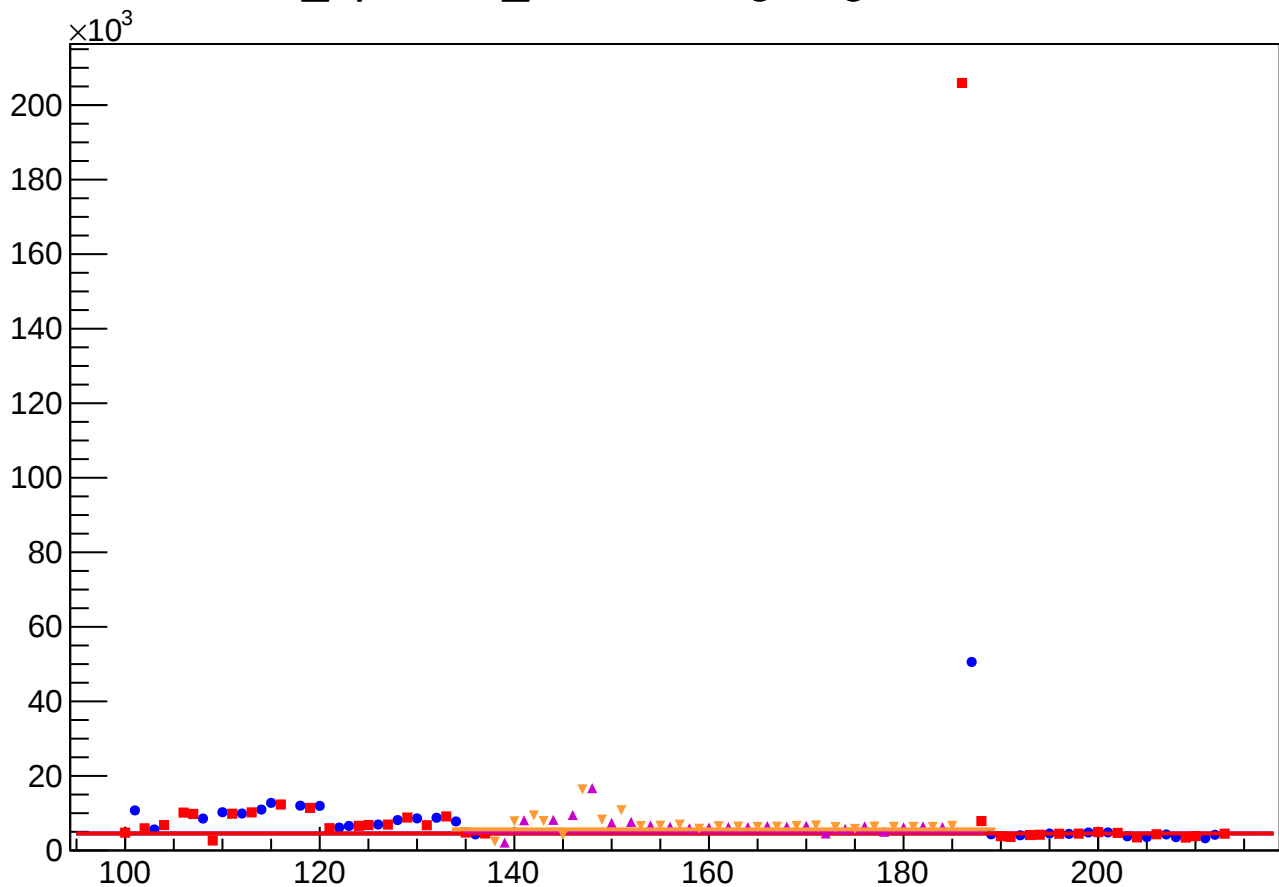
Right: 0.183 ± 0.857 $\chi^2/\text{NDF}: 120.9/63$

In: 0.998 ± 0.914 $\chi^2/\text{NDF}: 63.1/52$

Out: -0.130 ± 0.919 $\chi^2/\text{NDF}: 110.1/58$

All: 0.437 ± 0.648 $\chi^2/\text{NDF}: 174.0/111$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4562.130 $\pm$ 0.867 χ^2/NDF : 3436381.3/29

Left Out: 5659.441 $\pm$ 1.014 χ^2/NDF : 4128583.6/24

Right Out: 4556.997 $\pm$ 0.847 χ^2/NDF : 3959194.1/33

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

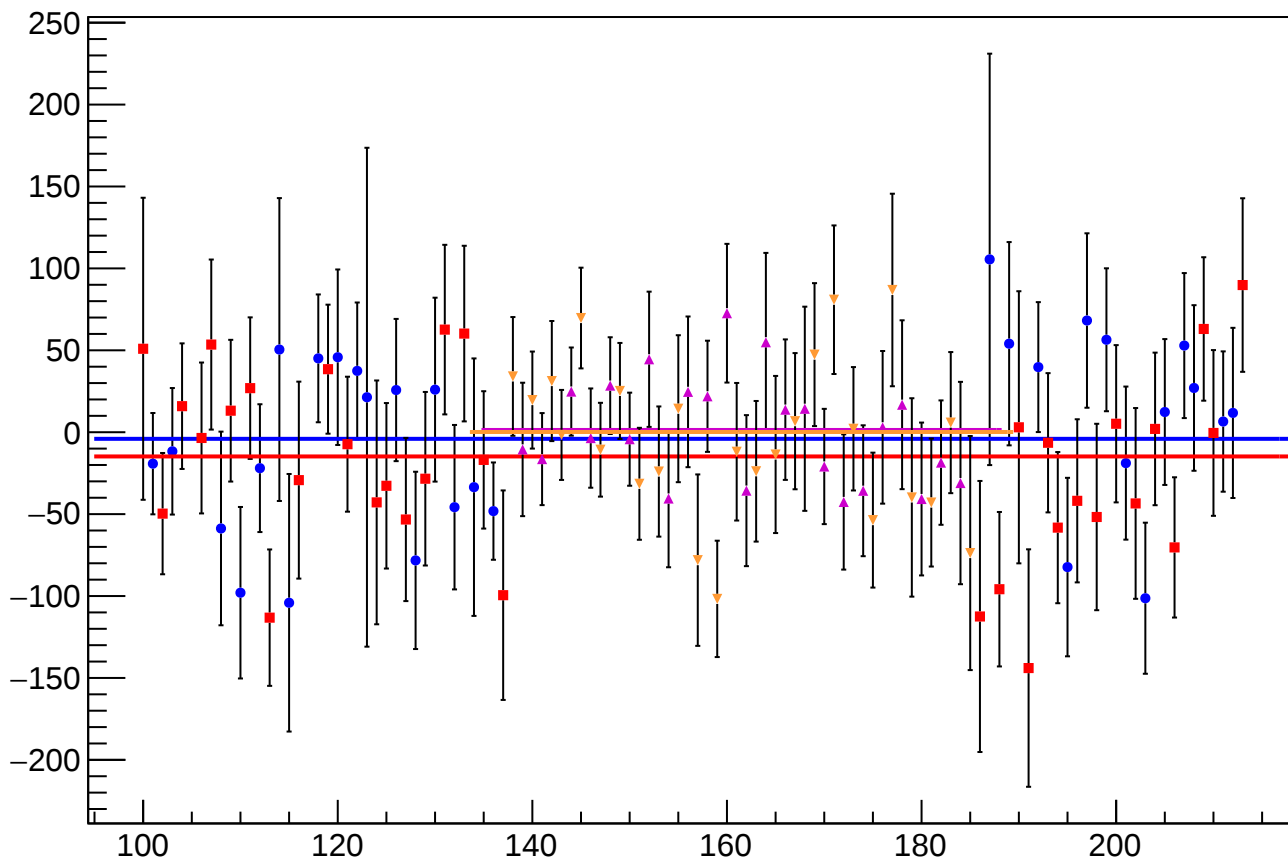
Right: 4559.505 $\pm$ 0.606 χ^2/NDF : 7395593.4/63

In: 4817.849 $\pm$ 0.646 χ^2/NDF : 9127834.5/52

Out: 5010.605 $\pm$ 0.650 χ^2/NDF : 8784062.1/58

All: 4913.658 $\pm$ 0.458 χ^2/NDF : 17956106.2/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -4.036 ± 8.693 χ^2/NDF : 31.2/29

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -14.789 ± 8.431 χ^2/NDF : 38.2/33

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

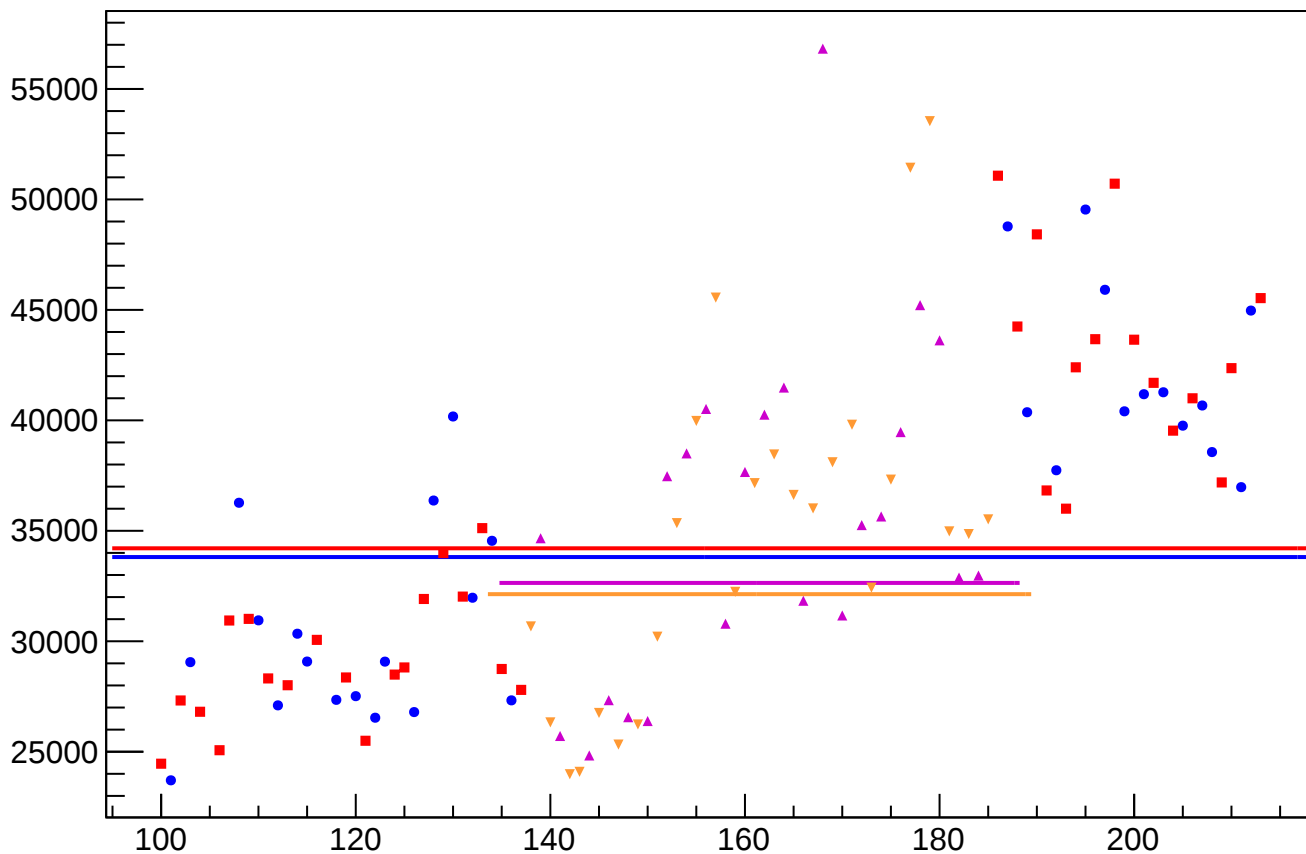
Right: -9.577 ± 6.052 χ^2/NDF : 70.2/63

In: -1.104 ± 5.883 χ^2/NDF : 44.7/52

Out: -6.631 ± 5.679 χ^2/NDF : 71.1/58

All: -3.965 ± 4.086 χ^2/NDF : 116.3/111

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33812.082 $\pm$ 6.147

χ^2/NDF : 1341350.9/29

Left: 32376.774 $\pm$ 3.916 χ^2/NDF : 2946456.2/47

Right: 34016.099 $\pm$ 4.280 χ^2/NDF : 2810649.7/63

Left Out: 32132.314 $\pm$ 5.433

χ^2/NDF : 1540079.4/24

In: 33177.379 $\pm$ 4.160 χ^2/NDF : 2763181.9/52

Right Out: 34208.018 $\pm$ 5.962

χ^2/NDF : 1467161.1/33

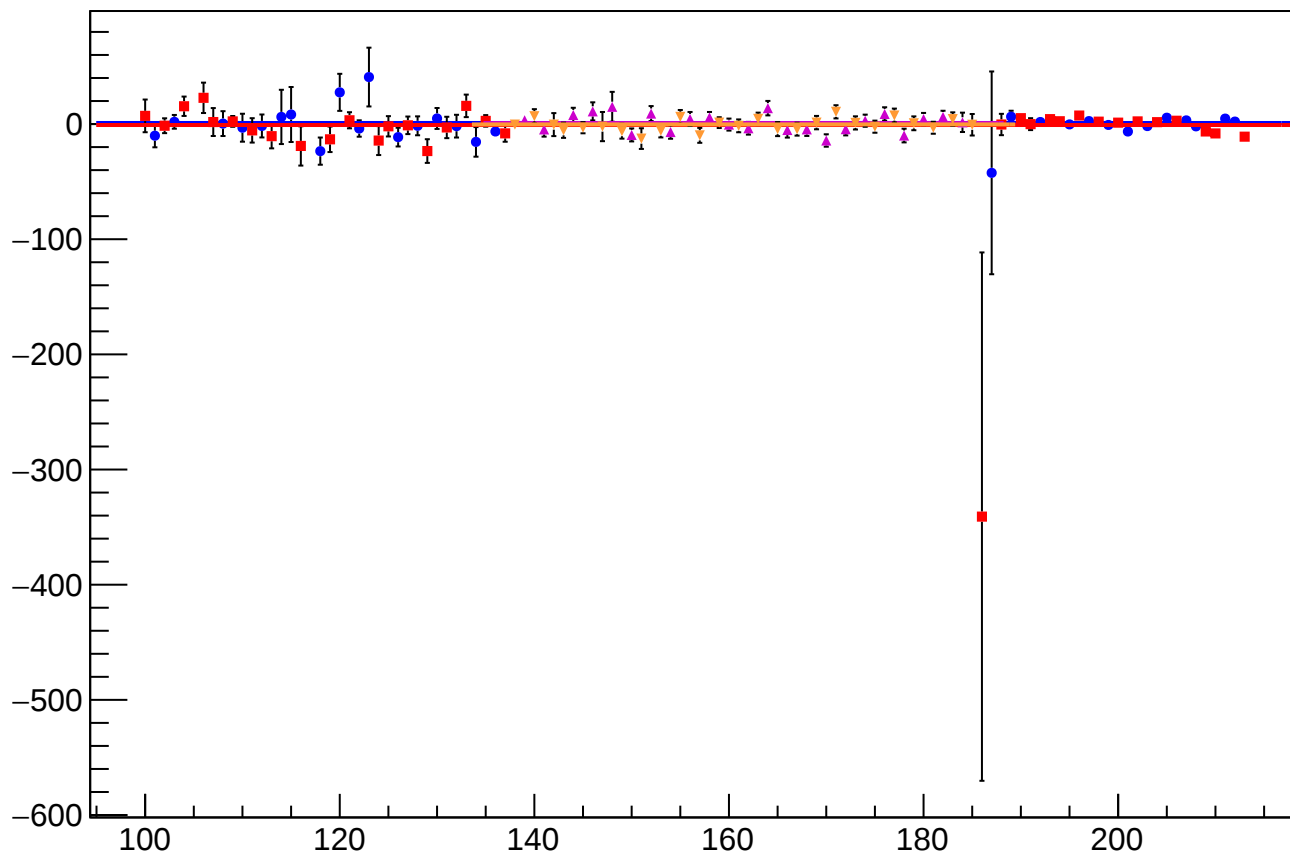
Out: 33074.001 $\pm$ 4.016 χ^2/NDF : 3073463.6/58

Left In: 32641.162 $\pm$ 5.650

χ^2/NDF : 1402162.4/22

All: 33123.868 $\pm$ 2.889 χ^2/NDF : 5836965.2/131

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.933 ± 0.731 $\chi^2/\text{NDF}: 38.6/29$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: -0.834 ± 0.745 $\chi^2/\text{NDF}: 73.4/33$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

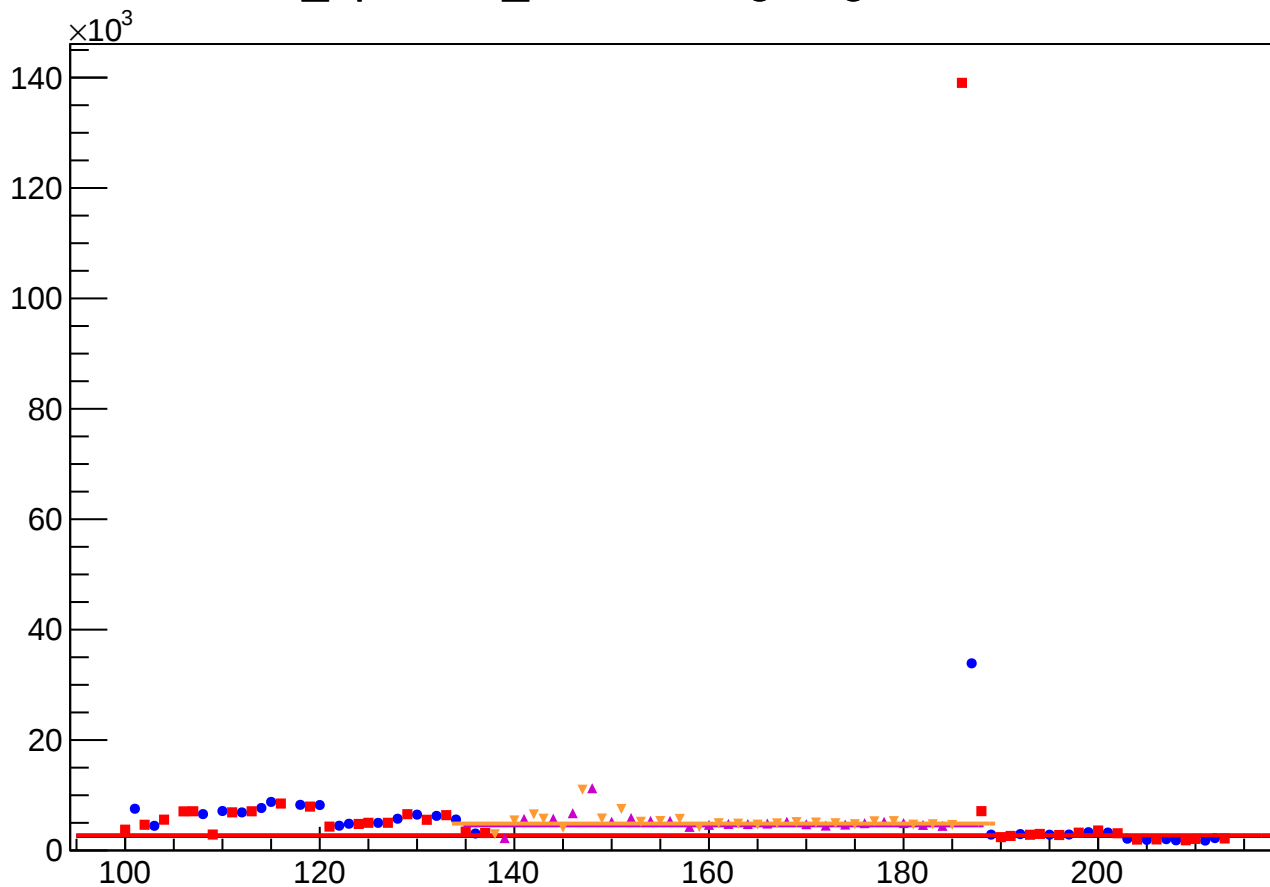
Right: 0.066 ± 0.522 $\chi^2/\text{NDF}: 114.8/63$

In: 0.926 ± 0.616 $\chi^2/\text{NDF}: 74.8/52$

Out: -0.684 ± 0.629 $\chi^2/\text{NDF}: 91.2/58$

All: 0.138 ± 0.440 $\chi^2/\text{NDF}: 169.3/111$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2625.303+/-0.517 χ^2/NDF : 5354841.3/29

Left Out: 4868.567+/-0.829 χ^2/NDF : 1511151.0/24

Right Out: 2759.747+/-0.527 χ^2/NDF : 5830305.5/33

Left In: 4544.337+/-0.808 χ^2/NDF : 2634314.4/22

Left: 4702.320+/-0.578 χ^2/NDF : 4223993.0/47

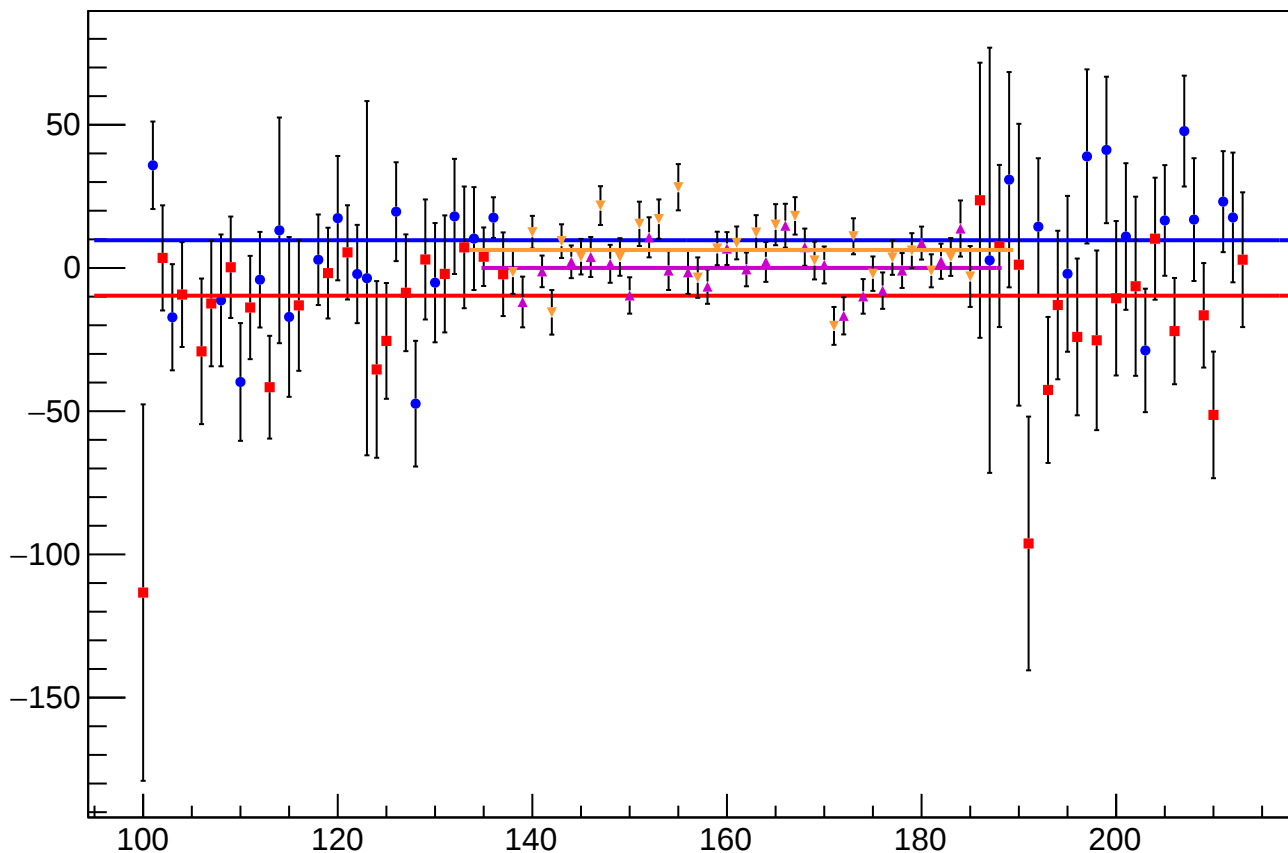
Right: 2691.246+/-0.369 χ^2/NDF : 11218340.7/63

In: 3182.799+/-0.435 χ^2/NDF : 11994764.5/52

Out: 3366.769+/-0.445 χ^2/NDF : 11955307.0/58

All: 3272.862+/-0.311 χ^2/NDF : 24037507.3/1

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 9.692 ± 3.475 χ^2/NDF : 34.1/29

Left Out: 6.296 ± 1.310 χ^2/NDF : 56.5/24

Right Out: -9.664 ± 3.577 χ^2/NDF : 25.0/33

Left In: 0.020 ± 1.353 χ^2/NDF : 29.9/22

Left: 3.259 ± 0.941 χ^2/NDF : 97.5/47

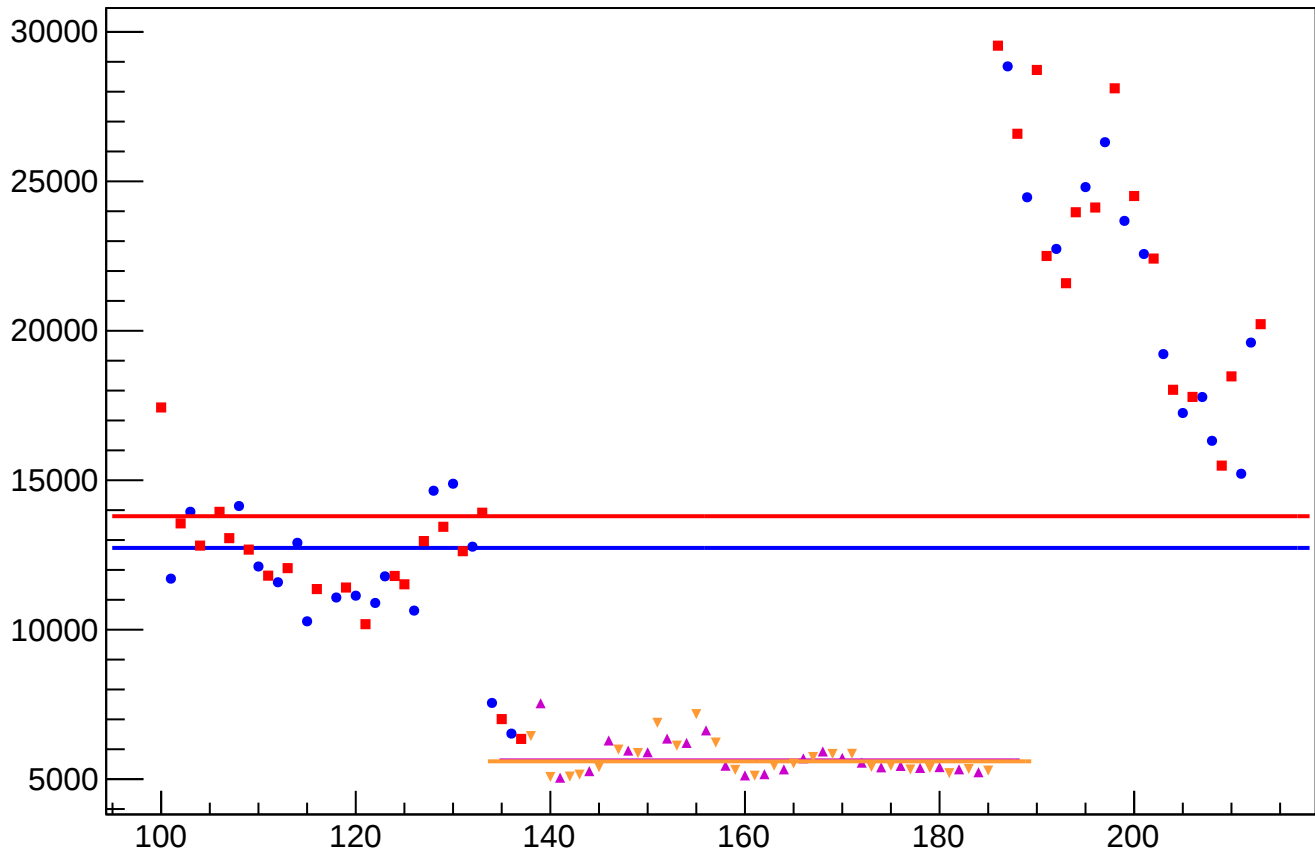
Right: 0.292 ± 2.492 χ^2/NDF : 74.2/63

In: 1.293 ± 1.261 χ^2/NDF : 70.8/52

Out: 4.407 ± 1.230 χ^2/NDF : 99.0/58

All: 2.889 ± 0.881 χ^2/NDF : 172.9/111

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12735.857+/-2.457 χ^2/NDF : 4665540.8/29

Left Out: 5596.370+/-0.926 χ^2/NDF : 283998.1/24

Right Out: 13796.946+/-2.529 χ^2/NDF : 4653071.5/33

Left In: 5627.283+/-0.957 χ^2/NDF : 279318.7/22

Left: 5611.329+/-0.666 χ^2/NDF : 563855.6/47

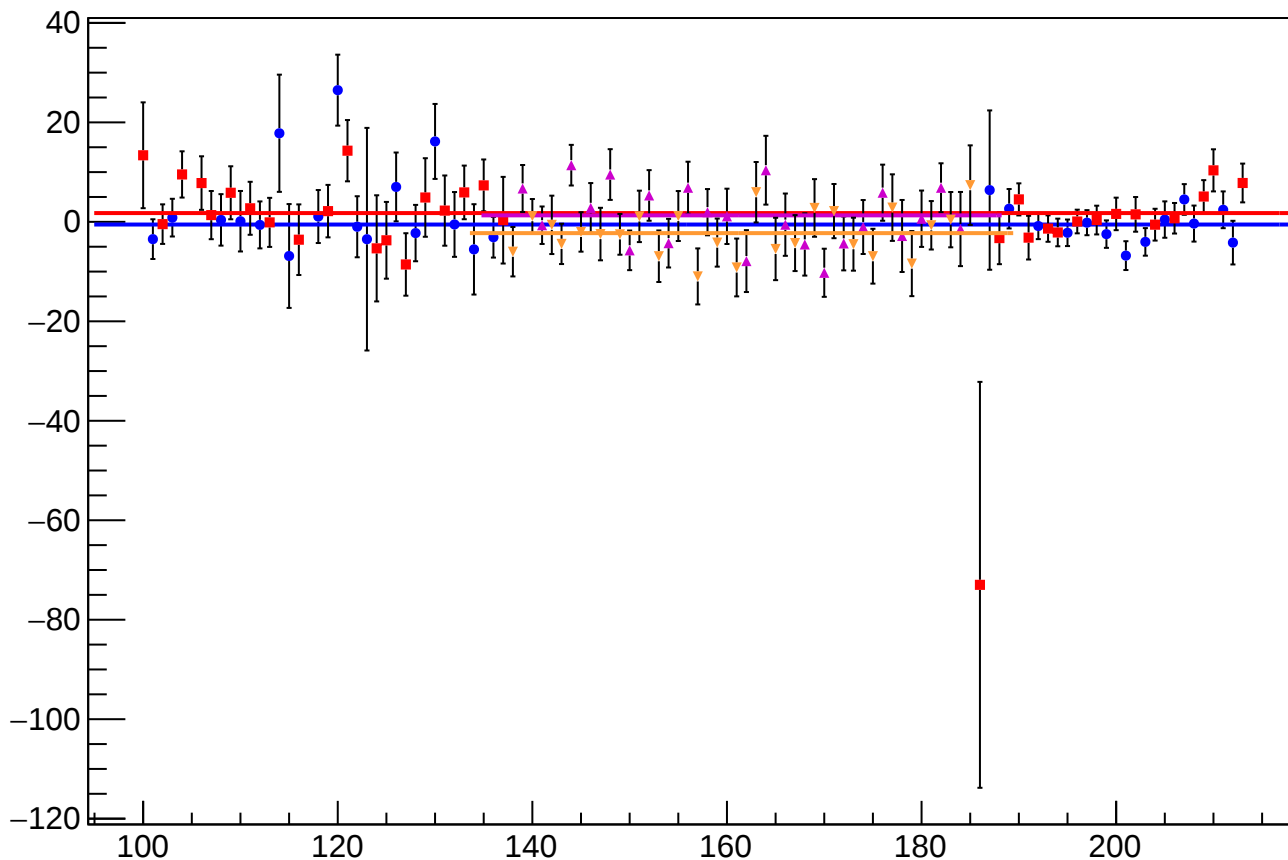
Right: 13251.161+/-1.762 χ^2/NDF : 9409160.1/63

In: 6563.043+/-0.892 χ^2/NDF : 12211415.7/52

Out: 6566.644+/-0.870 χ^2/NDF : 14207609.8/58

All: 6564.888+/-0.623 χ^2/NDF : 26419033.9/110

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.540 ± 0.750 χ^2/NDF : 36.9/29

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 1.764 ± 0.724 χ^2/NDF : 35.2/33

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

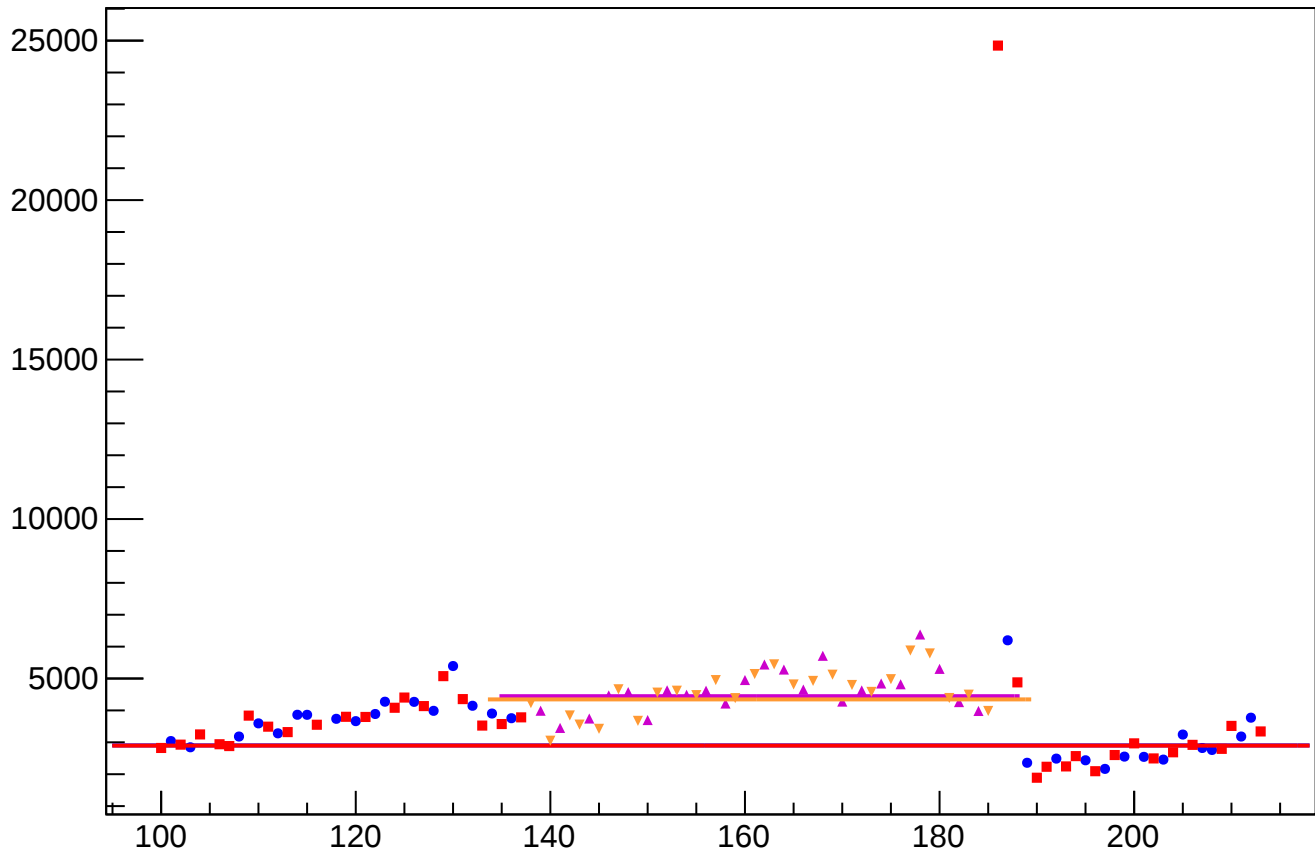
Right: 0.652 ± 0.521 χ^2/NDF : 77.0/63

In: 0.062 ± 0.616 χ^2/NDF : 69.7/52

Out: 0.429 ± 0.592 χ^2/NDF : 60.8/58

All: 0.253 ± 0.427 χ^2/NDF : 130.7/111

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2902.877+/-0.530

χ^2/NDF : 1390698.9/29

Left Out: 4345.381+/-0.728

χ^2/NDF : 1000636.1/24

Right Out: 2896.594+/-0.512

χ^2/NDF : 2338418.2/33

Left In: 4446.181+/-0.762

χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526

χ^2/NDF : 1712588.4/47

Right: 2899.625+/-0.368

χ^2/NDF : 3729189.8/63

In: 3406.954+/-0.435

χ^2/NDF : 4858636.9/52

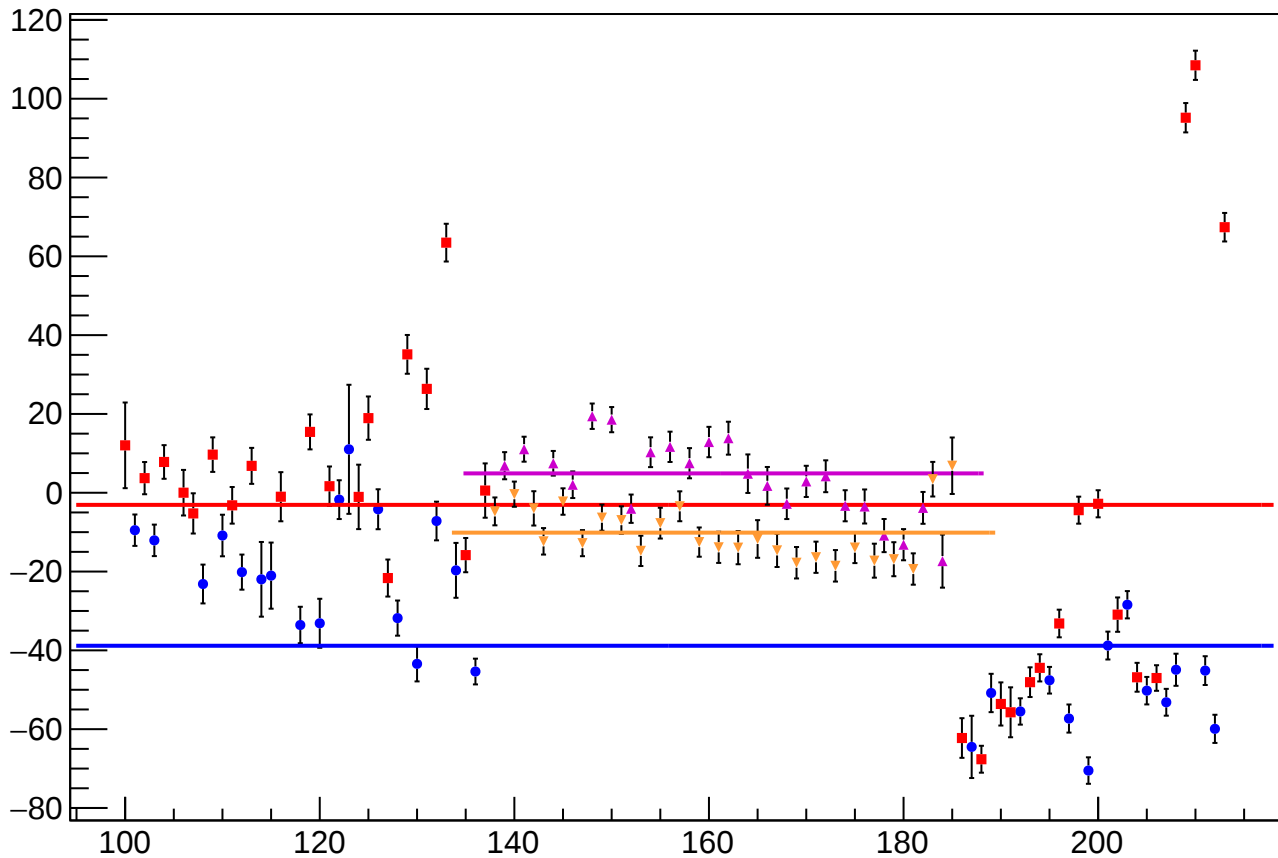
Out: 3376.275+/-0.419

χ^2/NDF : 5988812.7/58

All: 3391.025+/-0.302

χ^2/NDF : 10850029.0/100

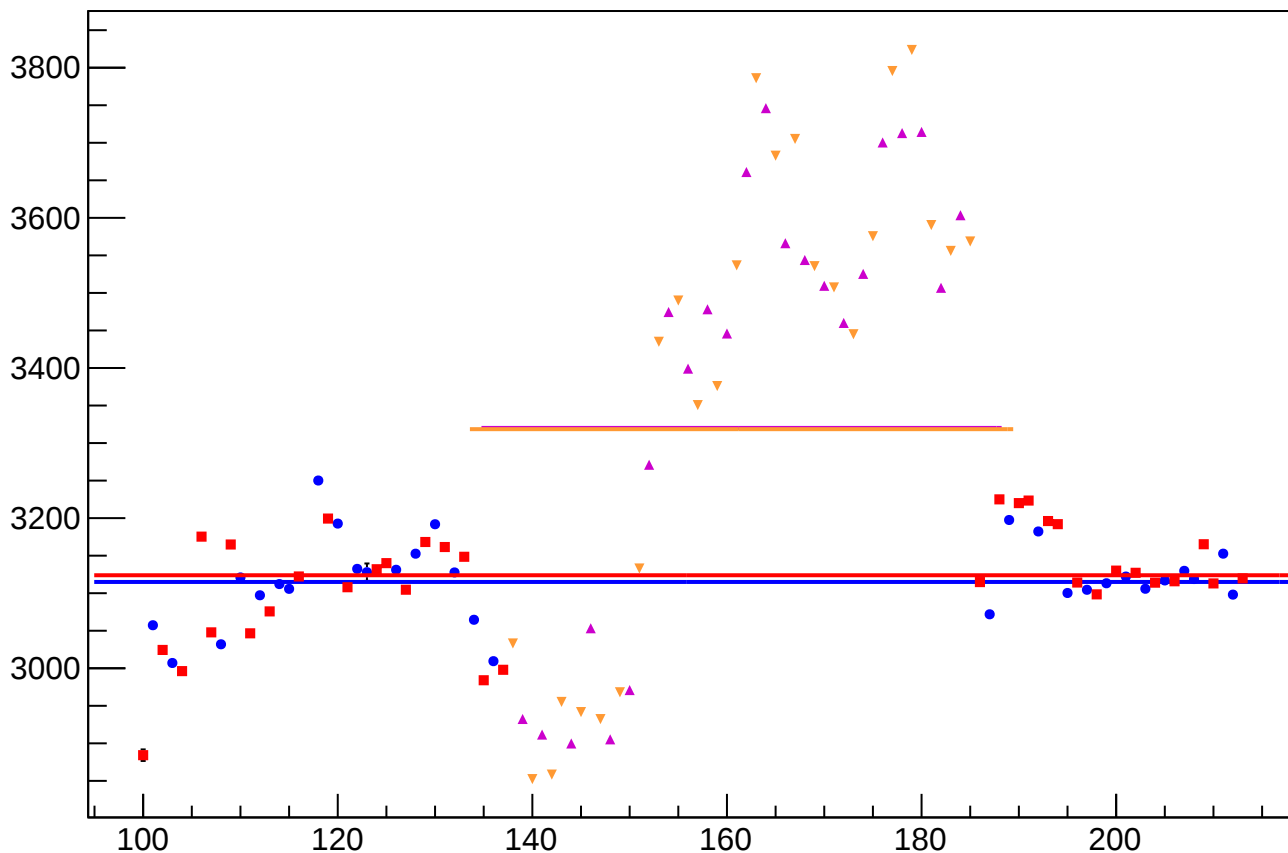
diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -38.831 ± 0.781 $\chi^2/\text{NDF}: 575.5/29$
 Left Out: -10.125 ± 0.775 $\chi^2/\text{NDF}: 67.9/24$
 Right Out: -3.076 ± 0.750 $\chi^2/\text{NDF}: 3726.1/33$
 Left In: 4.911 ± 0.797 $\chi^2/\text{NDF}: 127.9/22$

Left: -2.814 ± 0.556 $\chi^2/\text{NDF}: 378.7/47$
 Right: -20.235 ± 0.541 $\chi^2/\text{NDF}: 5391.6/63$
 In: -17.405 ± 0.558 $\chi^2/\text{NDF}: 2239.8/52$
 Out: -6.484 ± 0.539 $\chi^2/\text{NDF}: 3836.7/58$
 All: -11.759 ± 0.388 $\chi^2/\text{NDF}: 6274.6/111$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3114.989 $\pm$ 0.552 χ^2 /NDF: 9311.1/29

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3123.909 $\pm$ 0.531 χ^2 /NDF: 14021.5/33

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

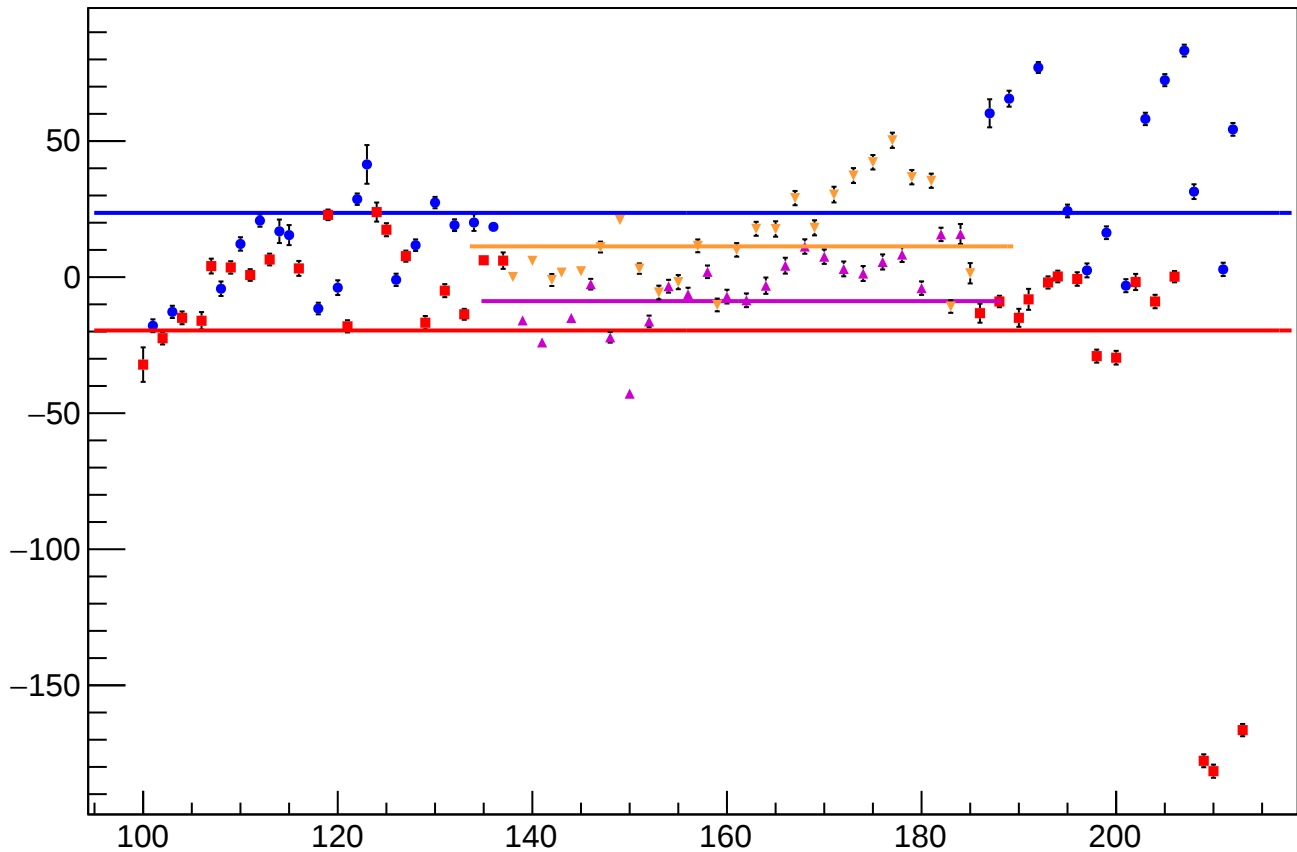
Right: 3119.628 $\pm$ 0.383 χ^2 /NDF: 23468.2/63

In: 3215.489 $\pm$ 0.394 χ^2 /NDF:364550.8/52

Out: 3217.995 $\pm$ 0.381 χ^2 /NDF:416768.1/58

All: 3216.785 $\pm$ 0.274 χ^2 /NDF: 781339.7/111

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 23.609 ± 0.433 $\chi^2/\text{NDF}: 4148.4/29$

Left Out: 11.305 ± 0.454 $\chi^2/\text{NDF}: 1144.3/24$

Right Out: -19.602 ± 0.417 $\chi^2/\text{NDF}: 15366.7/33$

Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$

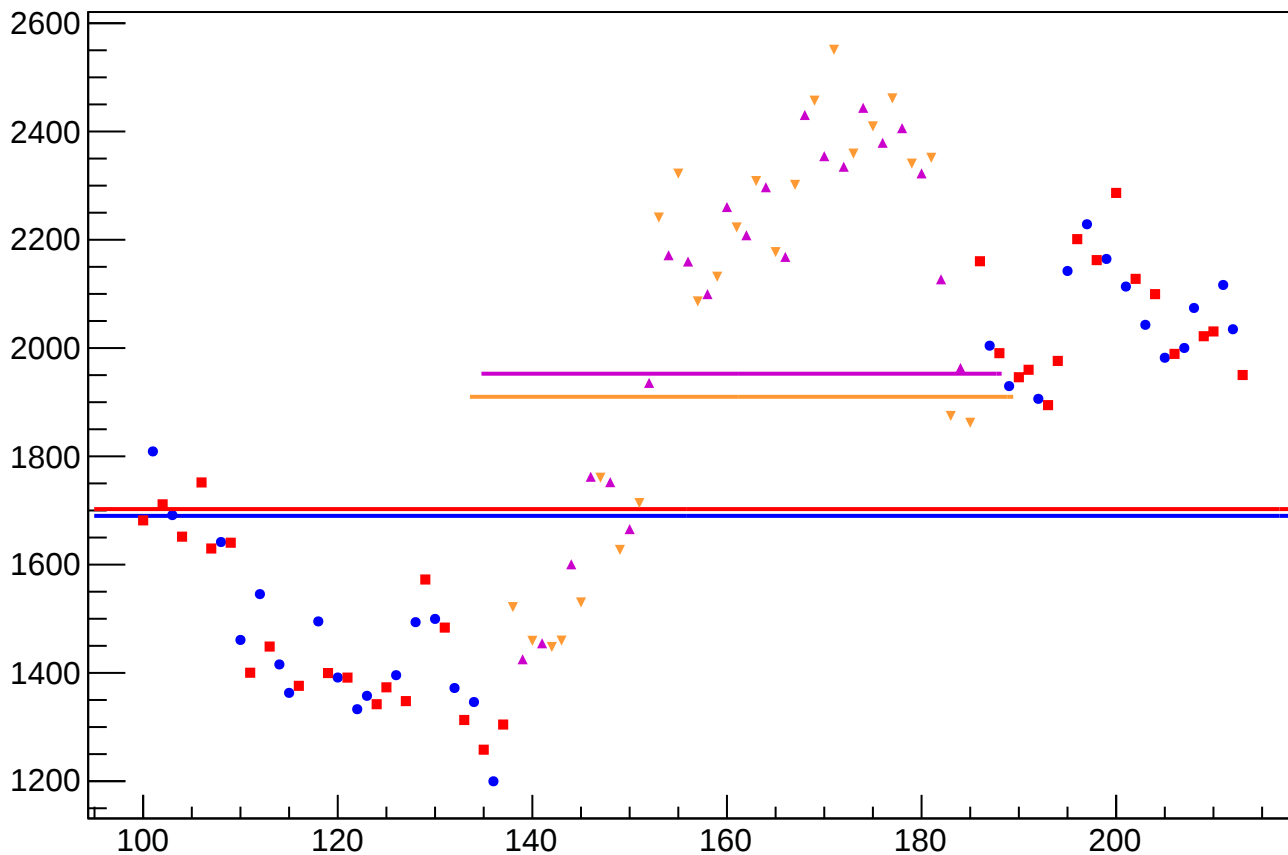
Right: 1.193 ± 0.300 $\chi^2/\text{NDF}: 24690.1/63$

In: 8.920 ± 0.320 $\chi^2/\text{NDF}: 7635.2/52$

Out: -5.465 ± 0.307 $\chi^2/\text{NDF}: 19027.3/58$

All: 1.429 ± 0.222 $\chi^2/\text{NDF}: 27715.0/111$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1690.035 $\pm$ 0.306 χ^2/NDF : 1193815.4/29

Left Out: 1909.963 $\pm$ 0.321 χ^2/NDF : 1399467.7/24

Right Out: 1702.580 $\pm$ 0.295 χ^2/NDF : 1183022.7/33

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

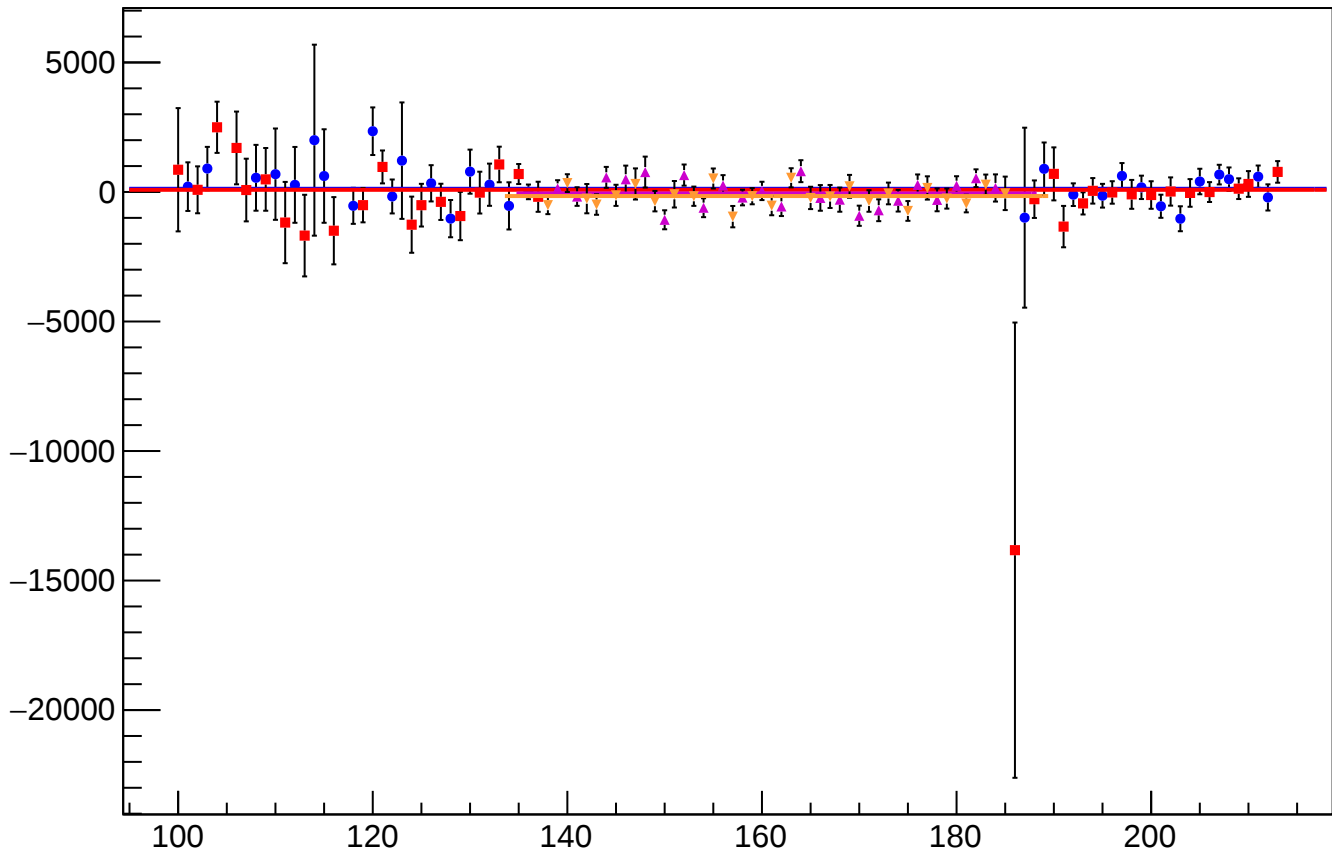
Right: 1696.543 $\pm$ 0.212 χ^2/NDF : 2377710.5/63

In: 1809.005 $\pm$ 0.226 χ^2/NDF : 2592975.6/52

Out: 1797.438 $\pm$ 0.217 χ^2/NDF : 2809074.8/58

All: 1802.981 $\pm$ 0.157 χ^2/NDF : 5403411.6/11

asym_sam1_mean vs Slug, Sign Corrected



Right In: 122.897+/-108.286 χ^2/NDF : 27.7/29

Left Out: -157.242+/-80.796 χ^2/NDF : 22.0/24

Right Out: 83.515+/-108.401 χ^2/NDF : 33.2/33

Left In: -58.934+/-82.584 χ^2/NDF : 38.5/22

Left: -109.164+/-57.753 χ^2/NDF : 61.3/47

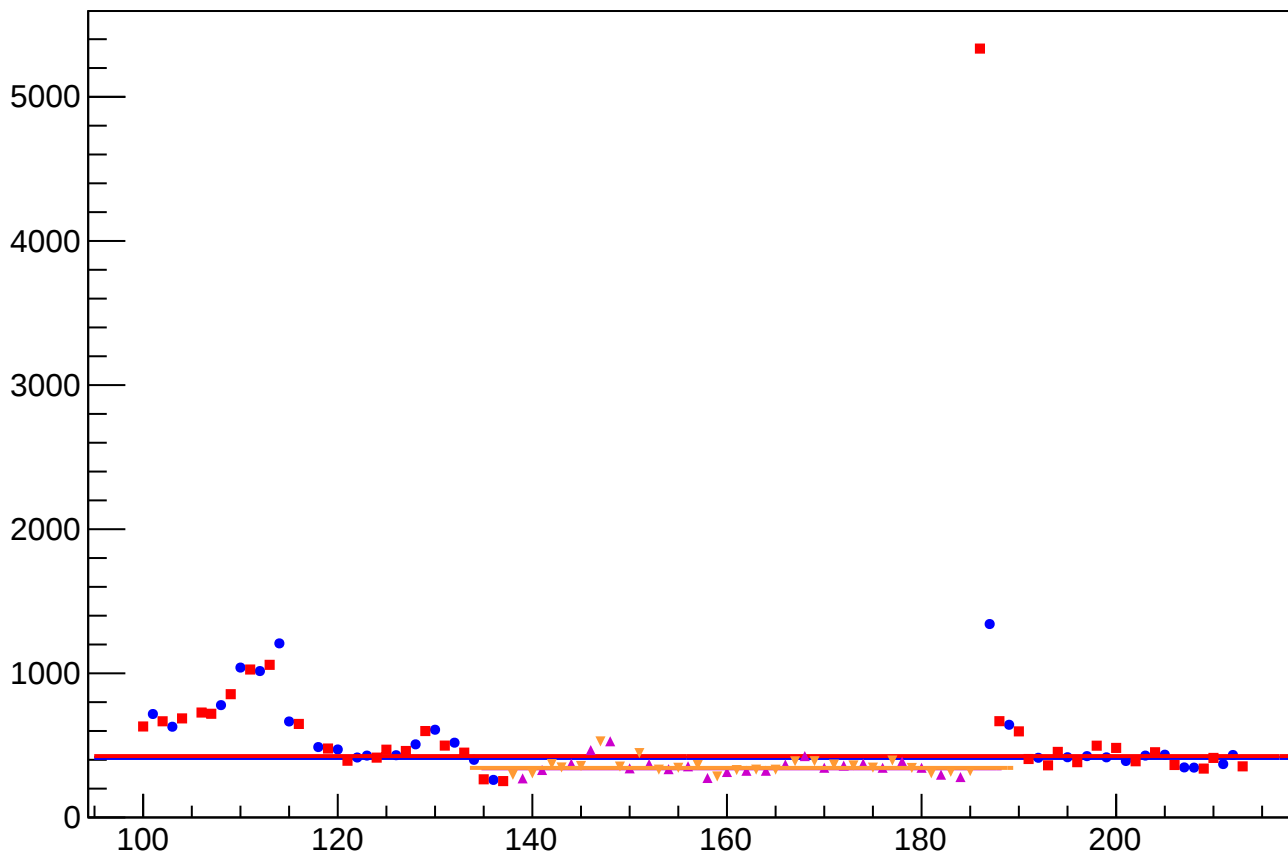
Right: 103.227+/-76.610 χ^2/NDF : 61.0/63

In: 7.934+/-65.667 χ^2/NDF : 68.0/52

Out: -71.259+/-64.781 χ^2/NDF : 58.4/58

All: -32.200+/-46.117 χ^2/NDF : 127.2/111

asym_sam1_rms vs Slug, Sign Corrected



Right In: 412.928+/-0.077 χ^2/NDF : 2406501.6/29

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 425.756+/-0.077 χ^2/NDF : 3329424.1/33

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

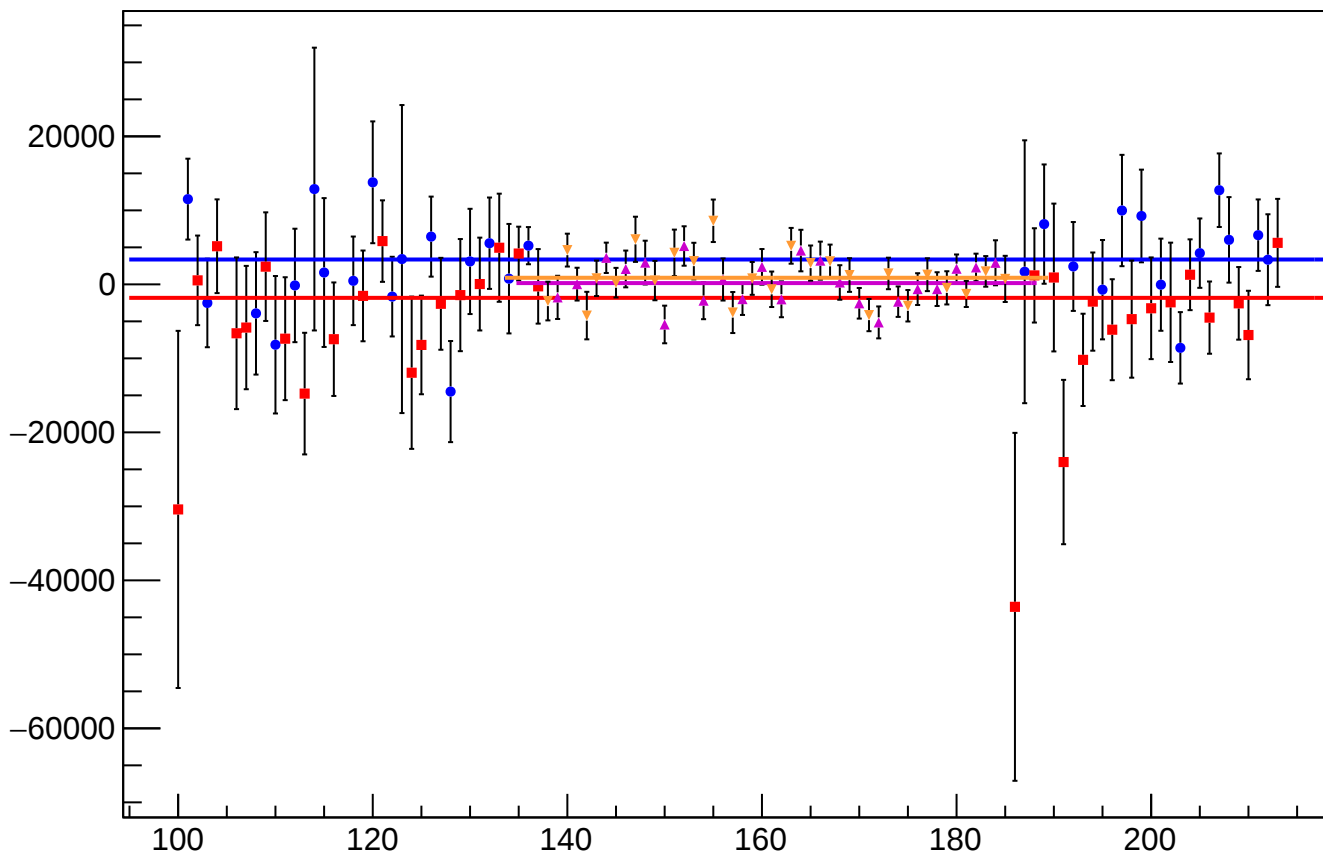
Right: 419.336+/-0.054 χ^2/NDF : 5749944.9/63

In: 367.373+/-0.046 χ^2/NDF : 3691024.6/52

Out: 373.074+/-0.046 χ^2/NDF : 4603675.1/58

All: 370.262+/-0.033 χ^2/NDF : 8302339.1/111

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3359.812 $\pm$ 1090.552 χ^2 /NDF: 29.7/29

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -1823.345 $\pm$ 1126.801 χ^2 /NDF: 27.5/33

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

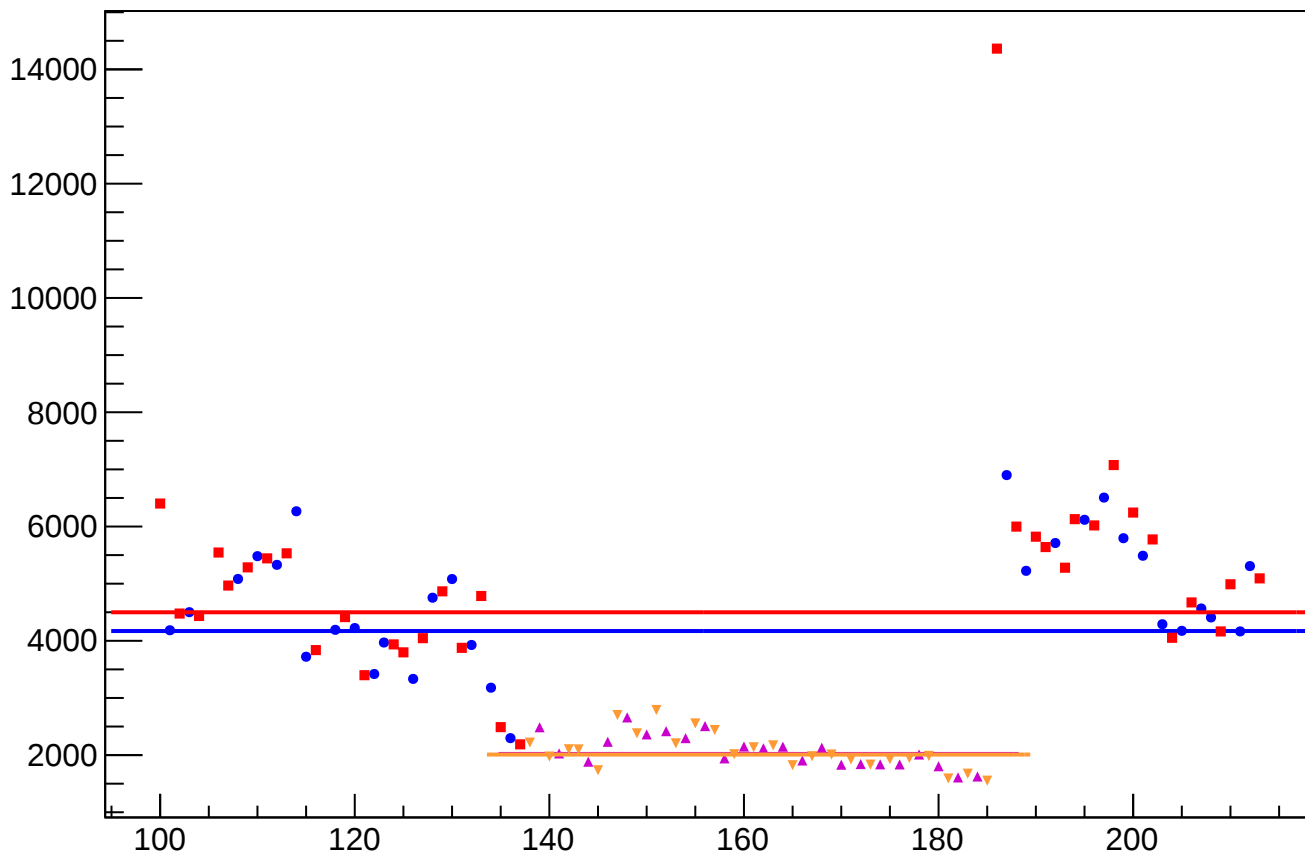
Right: 852.943 $\pm$ 783.638 χ^2 /NDF: 68.1/63

In: 704.277 $\pm$ 445.488 χ^2 /NDF:70.1/52

Out: 483.464 $\pm$ 436.338 χ^2 /NDF:70.3/58

All: 591.580 $\pm$ 311.722 χ^2 /NDF: 140.5/111

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4171.374 $\pm$ 0.771 χ^2/NDF : 2314944.1/29

Left Out: 2009.631 $\pm$ 0.335 χ^2/NDF : 709977.6/24

Right Out: 4499.391 $\pm$ 0.797 χ^2/NDF : 2539836.0/33

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

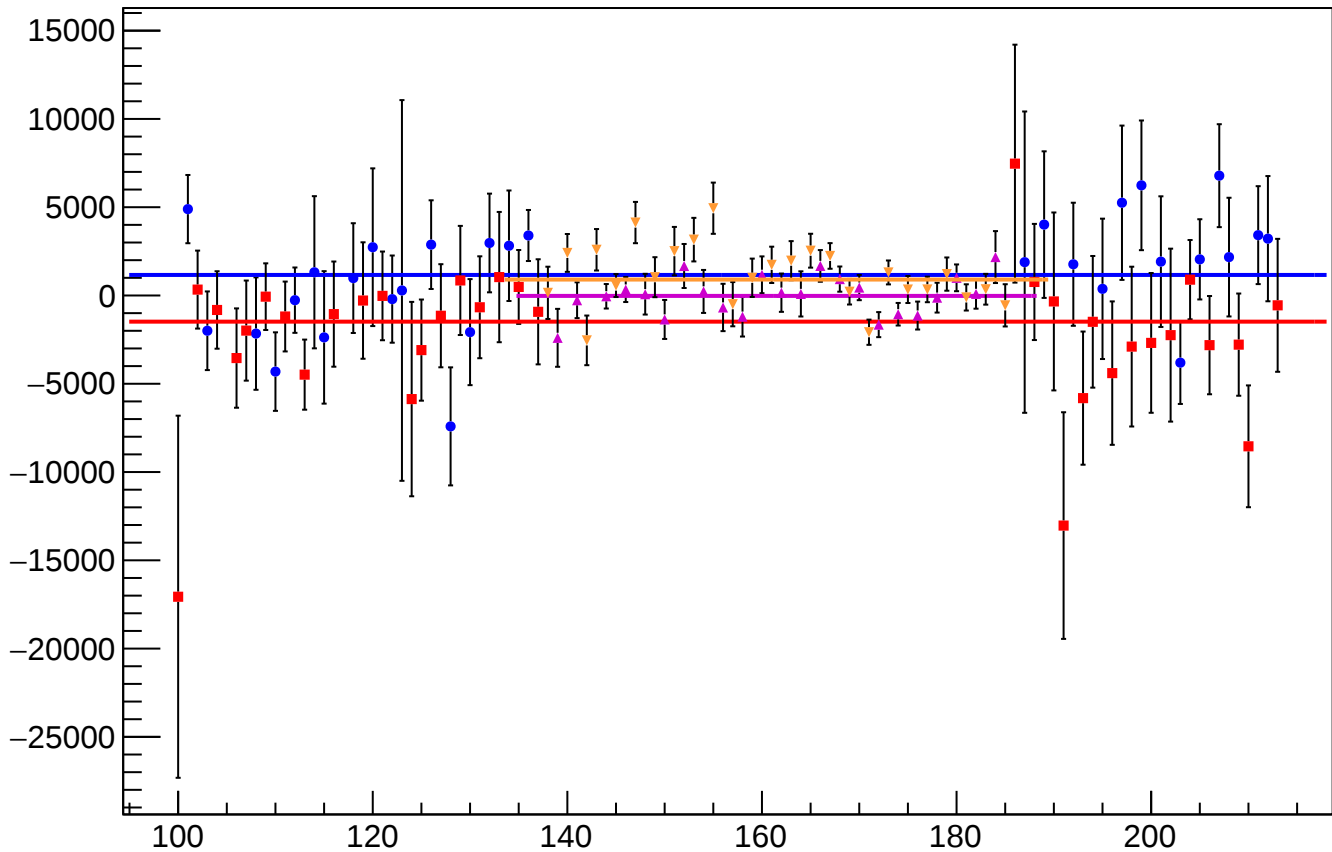
Right: 4330.022 $\pm$ 0.554 χ^2/NDF : 4942291.7/63

In: 2379.305 $\pm$ 0.315 χ^2/NDF : 9370804.8/52

Out: 2382.976 $\pm$ 0.309 χ^2/NDF : 11550118.6/58

All: 2381.178 $\pm$ 0.220 χ^2/NDF : 20920992.6/100

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1163.611 $\pm$ 513.680 χ^2 /NDF: 39.0/29

Left Out: 902.091 $\pm$ 185.850 χ^2 /NDF:63.5/24

Right Out: -1481.680 $\pm$ 508.026 χ^2 /NDF: 23.4/33

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

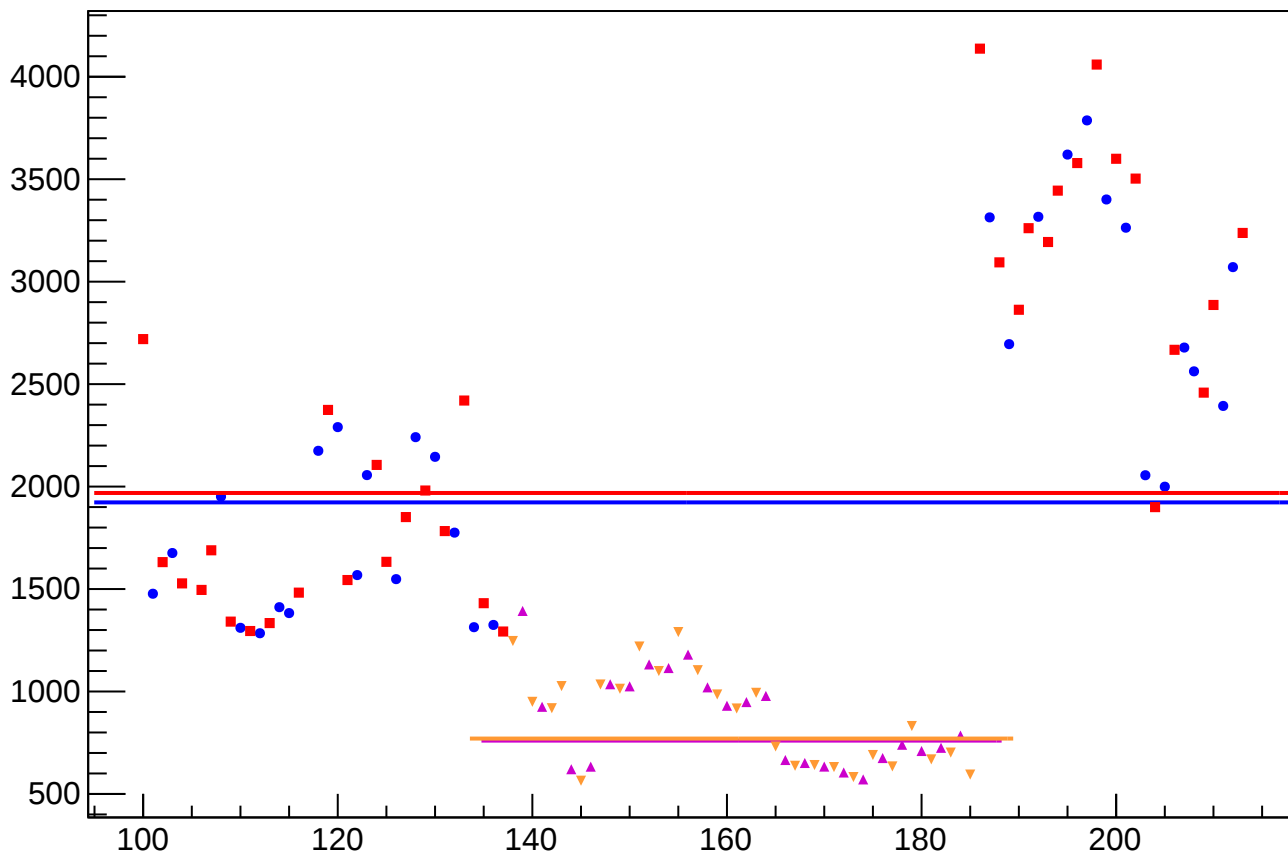
Right: -173.673 $\pm$ 361.211 χ^2 /NDF: 75.7/63

In: 116.880 $\pm$ 176.661 χ^2 /NDF:71.9/52

Out: 620.726 $\pm$ 174.538 χ^2 /NDF:106.3/58

All: 371.849 $\pm$ 124.161 χ^2 /NDF: 182.3/111

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1922.843 $\pm$ 0.363 χ^2/NDF : 3395698.1/29

Left Out: 770.320 $\pm$ 0.131 χ^2/NDF : 2287655.1/24

Right Out: 1968.810 $\pm$ 0.359 χ^2/NDF : 4258721.5/33

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

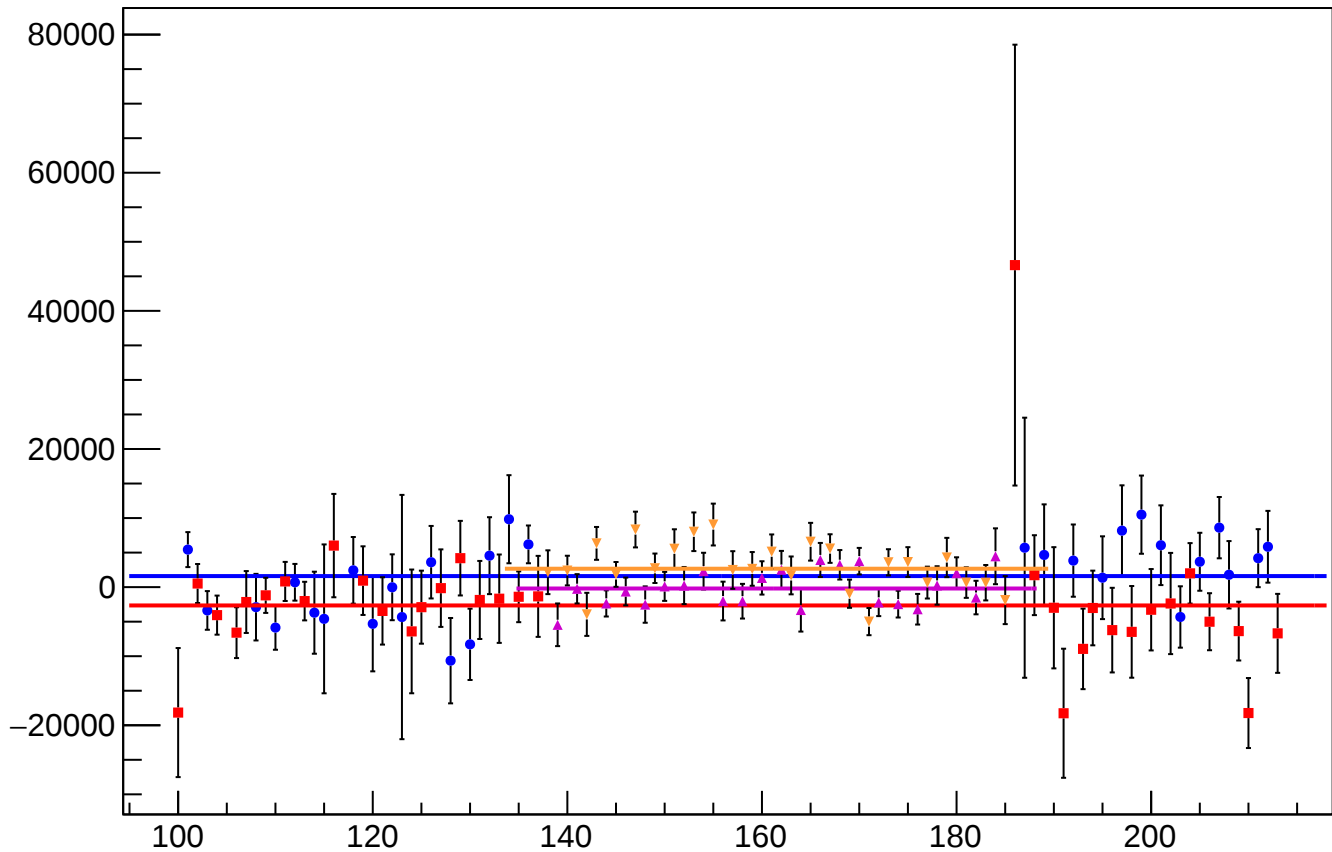
Right: 1946.081 $\pm$ 0.255 χ^2/NDF : 7662516.1/63

In: 897.846 $\pm$ 0.125 χ^2/NDF : 14413880.3/52

Out: 911.782 $\pm$ 0.123 χ^2/NDF : 16363381.0/58

All: 904.898 $\pm$ 0.088 χ^2/NDF : 30783559.6/11

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1600.316+/-825.288 χ^2/NDF : 36.8/29

Left Out: 2665.587+/-479.773 χ^2/NDF : 49.2/24

Right Out: -2652.399+/-786.139 χ^2/NDF : 31.2/33

Left In: -199.371+/-492.082 χ^2/NDF : 25.8/22

Left: 1269.388+/-343.520 χ^2/NDF : 92.4/47

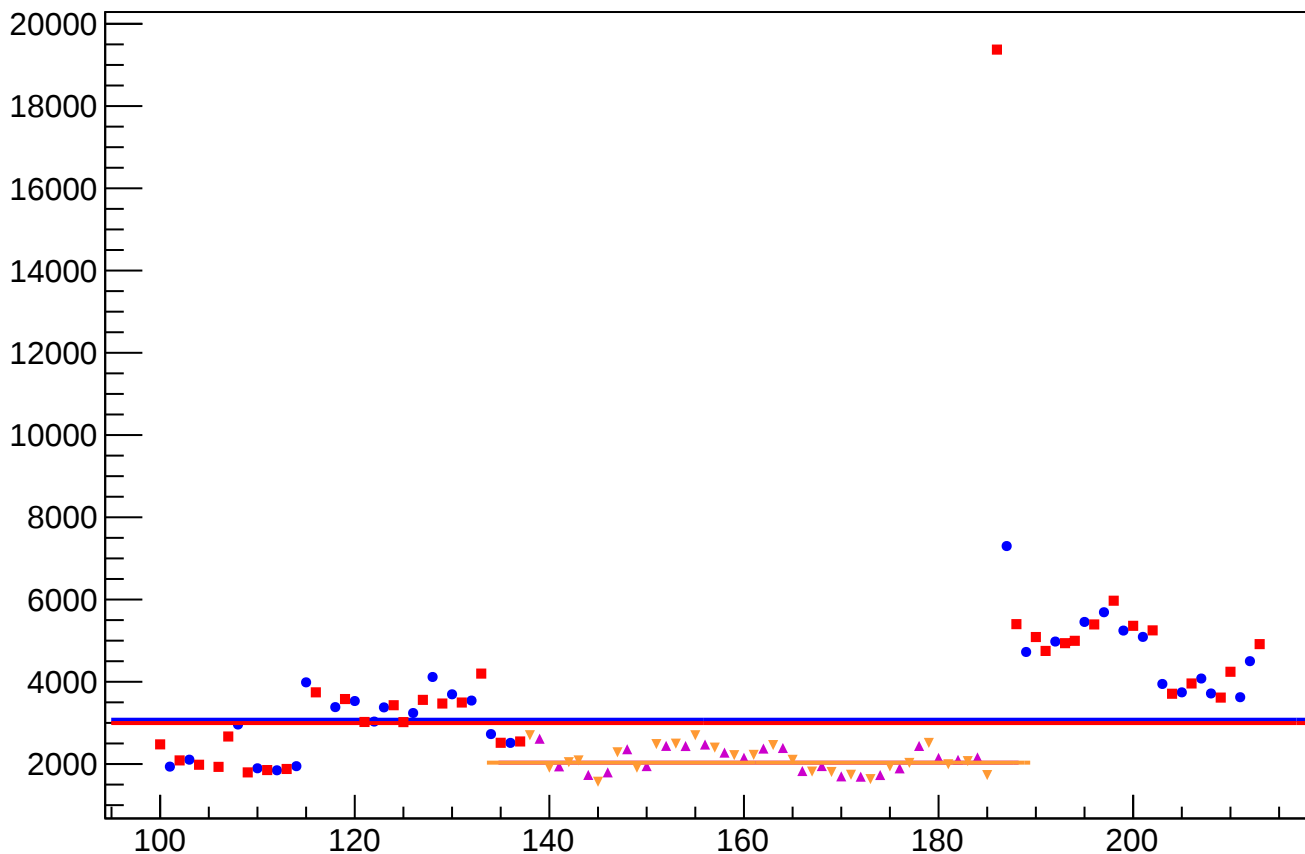
Right: -629.300+/-569.221 χ^2/NDF : 81.9/63

In: 272.643+/-422.654 χ^2/NDF : 66.1/52

Out: 1222.399+/-409.531 χ^2/NDF : 113.7/58

All: 762.494+/-294.112 χ^2/NDF : 182.4/111

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3077.370+/-0.584 χ^2/NDF : 3725298.2/29

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 2996.021+/-0.556 χ^2/NDF : 5282344.8/33

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

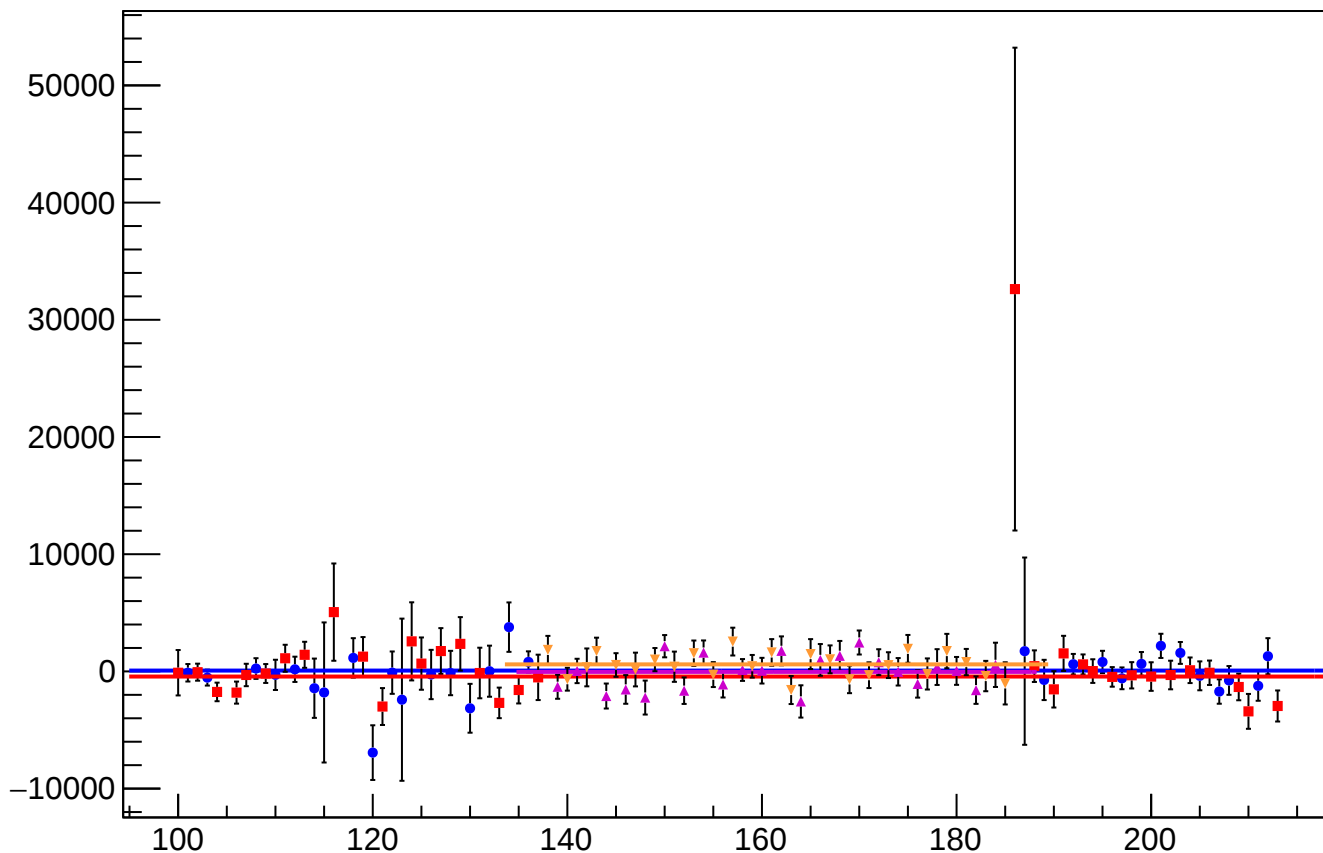
Right: 3034.720+/-0.403 χ^2/NDF : 9017831.0/63

In: 2306.658+/-0.299 χ^2/NDF : 6742396.2/52

Out: 2294.589+/-0.290 χ^2/NDF : 8291657.2/58

All: 2300.433+/-0.208 χ^2/NDF : 15034894.5/110

asym_sam5_mean vs Slug, Sign Corrected



Right In: 70.831+/-221.241 χ^2/NDF : 31.2/29

Left Out: 600.005+/-234.968 χ^2/NDF :18.5/24

Right Out: -438.573+/-206.803 χ^2/NDF : 38.6/33

Left In: -41.559+/-240.807 χ^2/NDF :36.4/22

Left: 287.096+/-168.174 χ^2/NDF : 58.5/47

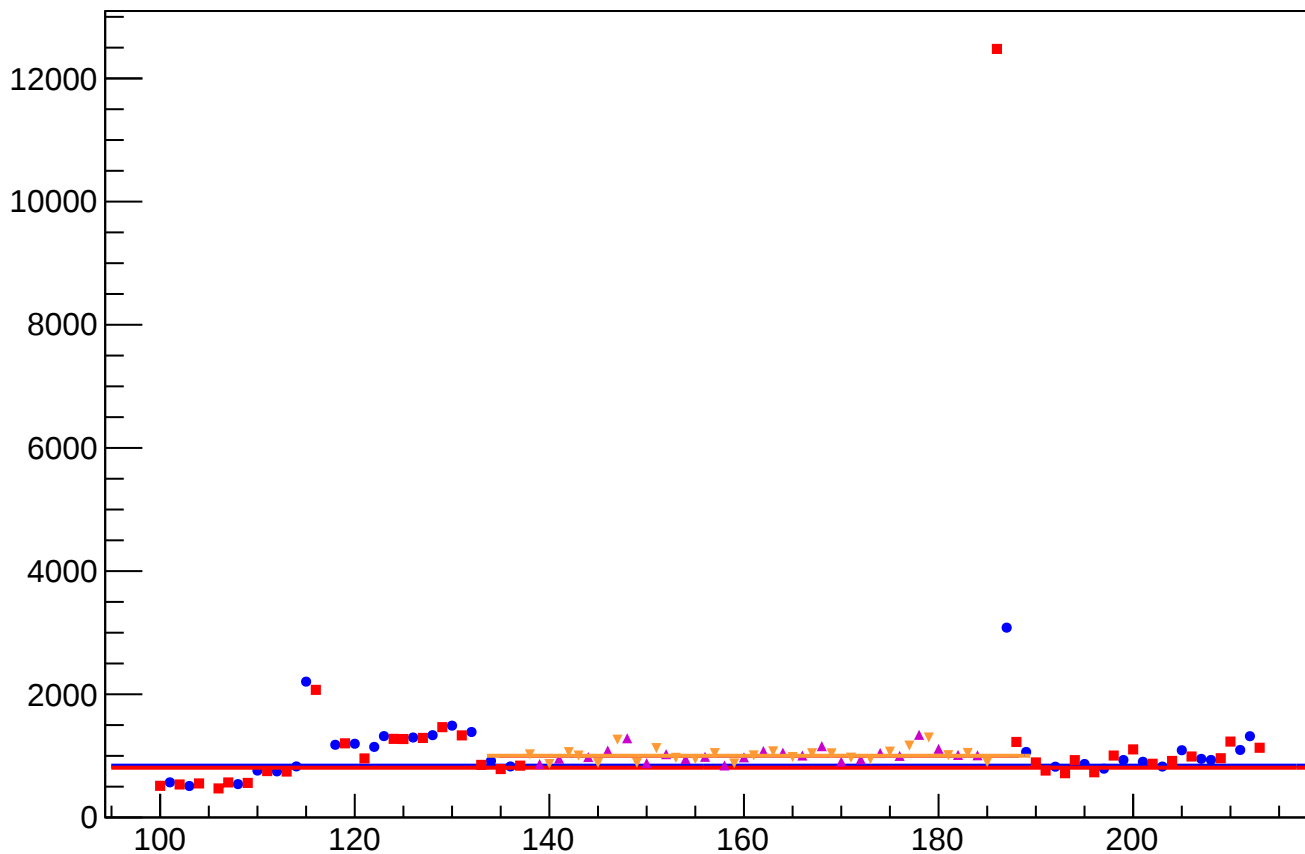
Right: -201.034+/-151.078 χ^2/NDF : 72.7/63

In: 19.387+/-162.920 χ^2/NDF :67.7/52

Out: 14.770+/-155.239 χ^2/NDF :68.1/58

All: 16.967+/-112.388 χ^2/NDF : 135.8/111

asym_sam5_rms vs Slug, Sign Corrected



Right In: 840.949+/-0.156 χ^2/NDF : 2454996.7/29

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 807.817+/-0.146 χ^2/NDF : 3464697.2/33

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

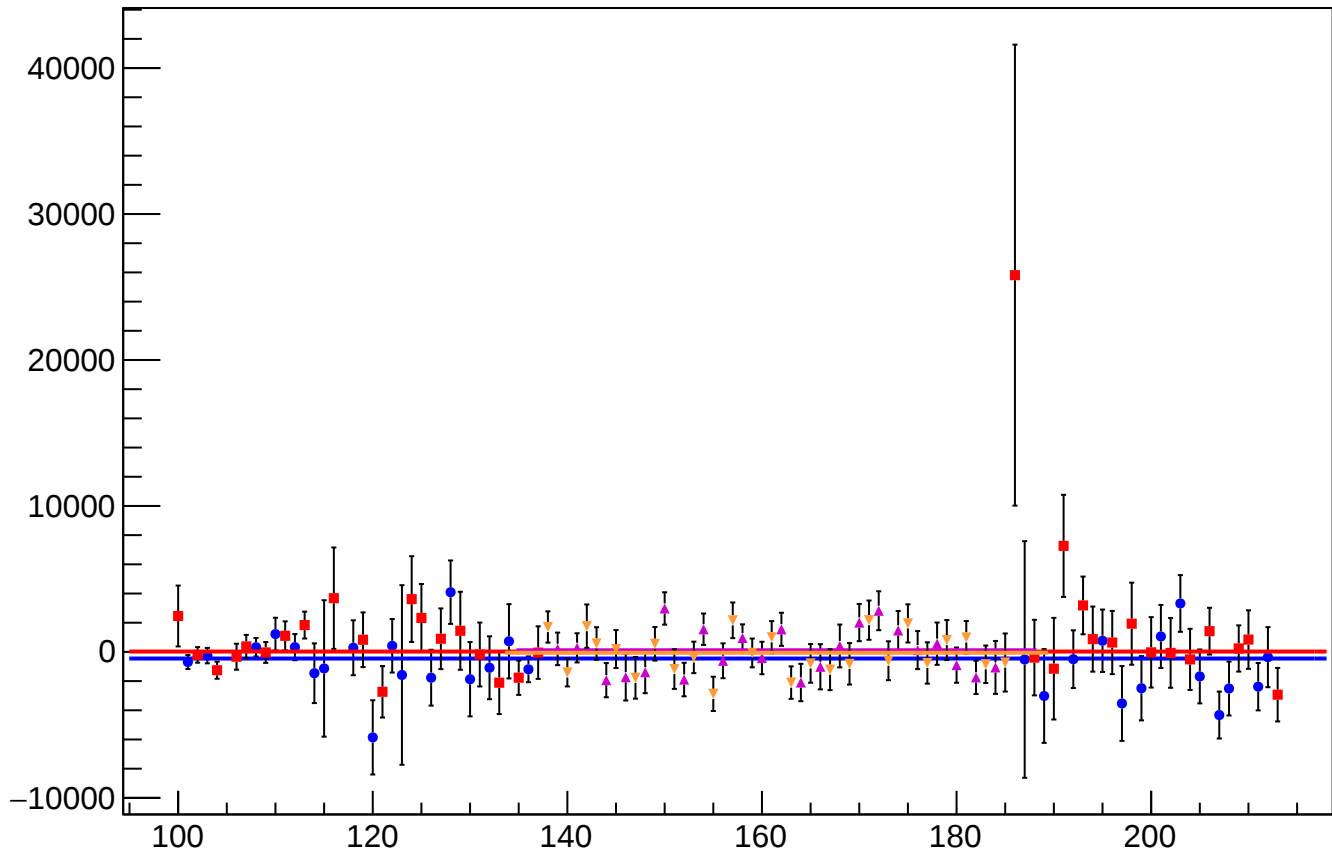
Right: 823.267+/-0.107 χ^2/NDF : 5943631.4/63

In: 912.859+/-0.115 χ^2/NDF : 3321251.9/52

Out: 892.348+/-0.110 χ^2/NDF : 4600518.9/58

All: 902.109+/-0.079 χ^2/NDF : 7938384.7/111

asym_sam6_mean vs Slug, Sign Corrected



Right In: -454.476+/-229.865 χ^2/NDF : 32.7/29

Left Out: -59.827+/-246.503 χ^2/NDF :31.0/24

Right Out: 25.066+/-226.340 χ^2/NDF : 35.7/33

Left In: 112.398+/-255.409 χ^2/NDF :34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

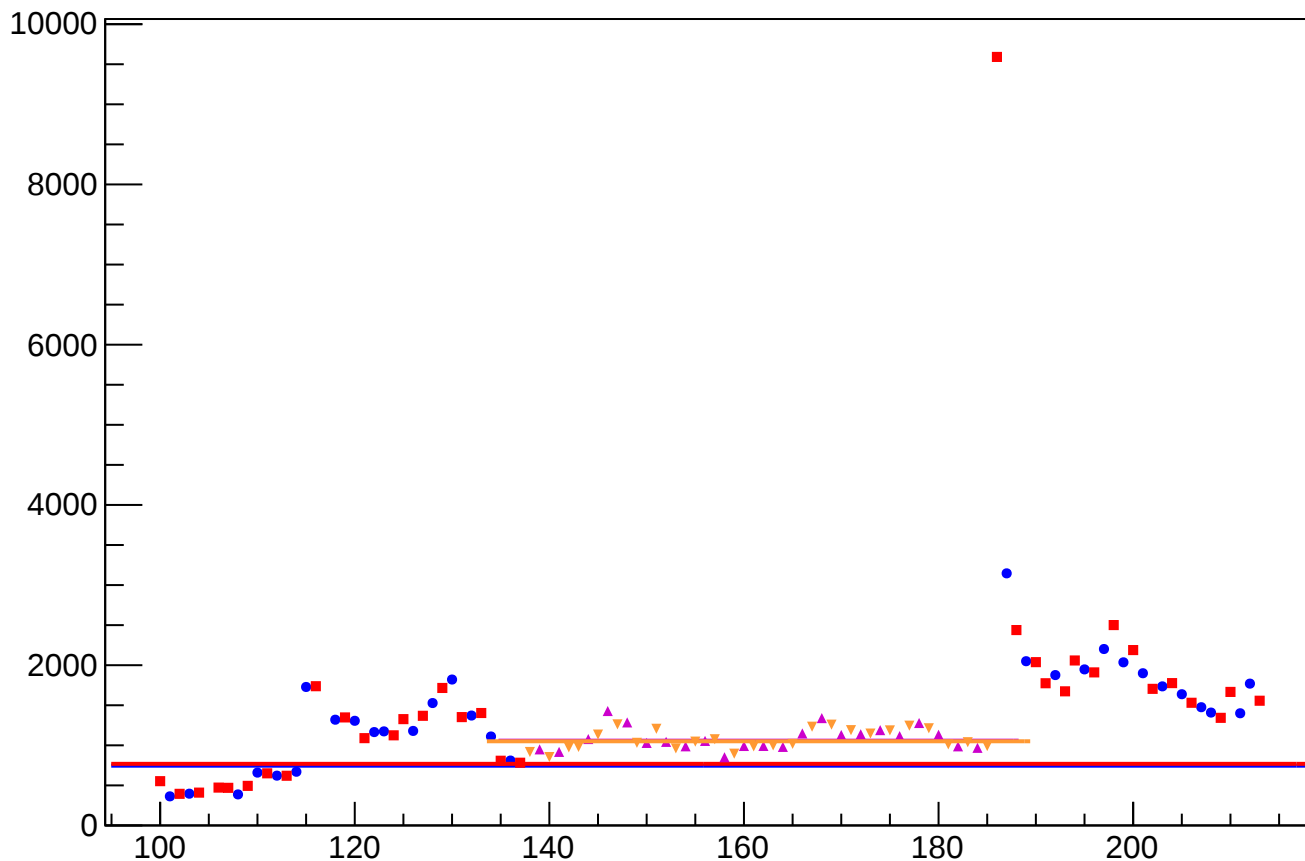
Right: -211.000+/-161.278 χ^2/NDF : 70.6/63

In: -200.797+/-170.858 χ^2/NDF :70.2/52

Out: -13.767+/-166.720 χ^2/NDF :66.7/58

All: -104.989+/-119.325 χ^2/NDF : 137.6/111

asym_sam6_rms vs Slug, Sign Corrected



Right In: 746.063+/-0.163 χ^2/NDF : 10464534.1/29

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 768.984+/-0.160 χ^2/NDF : 11176465.3/33

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

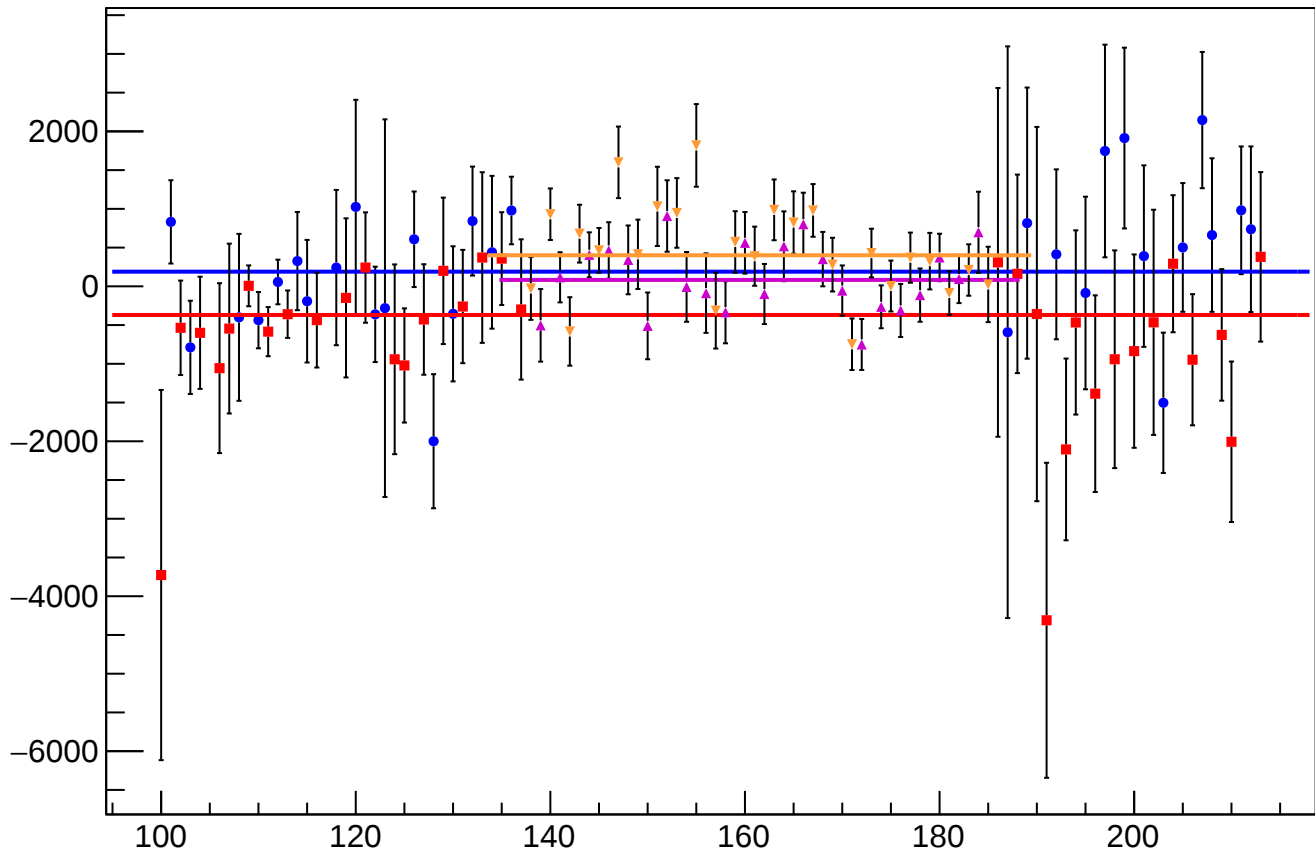
Right: 757.700+/-0.114 χ^2/NDF : 21651096.0/63

In: 885.700+/-0.121 χ^2/NDF : 12642365.2/52

Out: 897.827+/-0.118 χ^2/NDF : 13076394.9/58

All: 891.912+/-0.084 χ^2/NDF : 25723921.5/111

asym_sam7_mean vs Slug, Sign Corrected



Right In: 189.123 $\pm$ 129.187 χ^2 /NDF: 34.2/29

Left Out: 400.988 $\pm$ 74.546 χ^2 /NDF:52.1/24

Right Out: -369.747 $\pm$ 119.466 χ^2 /NDF: 20.4/33

Left In: 82.890 $\pm$ 76.904 χ^2 /NDF:29.0/22

Left: 246.889 $\pm$ 53.526 χ^2 /NDF: 89.9/47

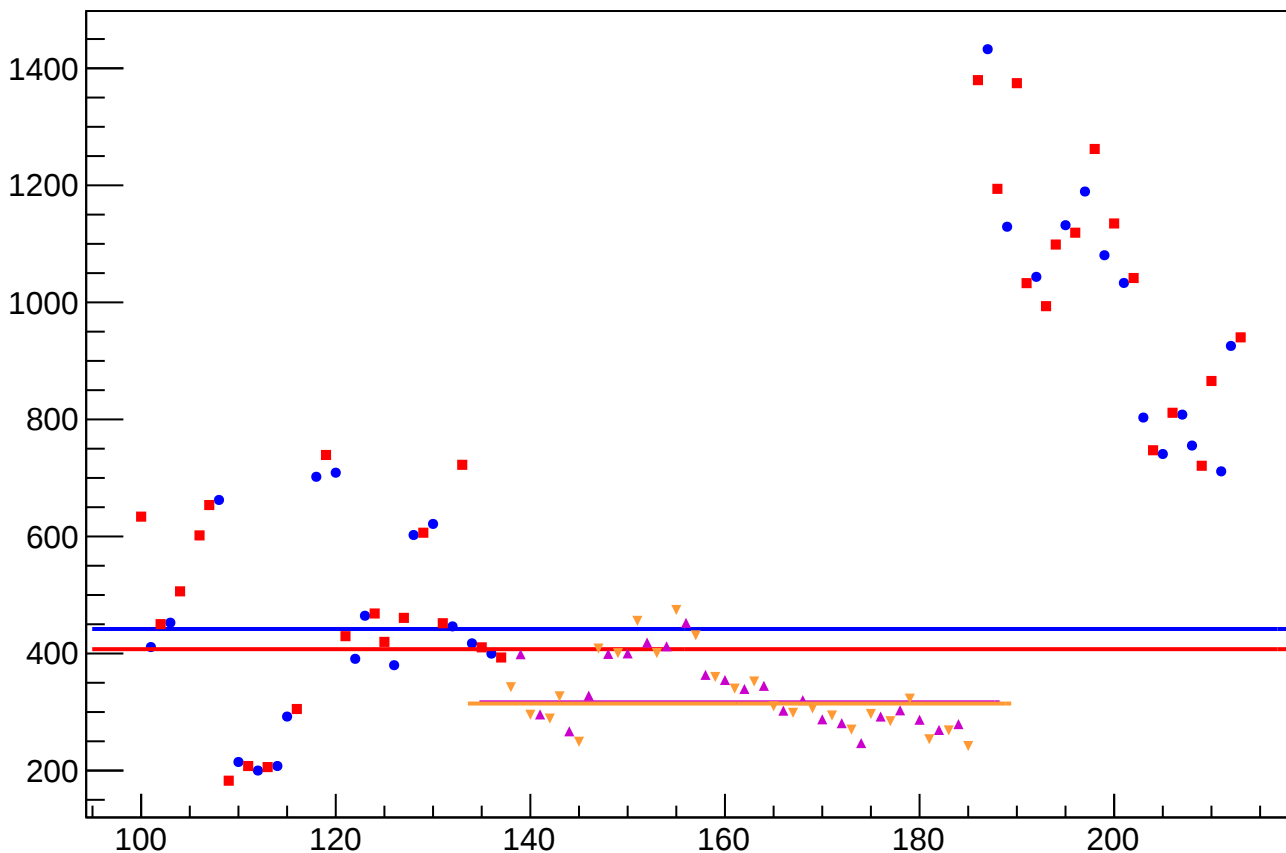
Right: -112.129 $\pm$ 87.711 χ^2 /NDF: 64.8/63

In: 110.686 $\pm$ 66.081 χ^2 /NDF:63.7/52

Out: 184.988 $\pm$ 63.244 χ^2 /NDF:102.5/58

All: 149.467 $\pm$ 45.690 χ^2 /NDF: 166.8/111

asym_sam7_rms vs Slug, Sign Corrected



Right In: 441.908 $\pm$ 0.091 χ^2 /NDF: 8166618.4/29

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF: 1112445.6/24

Right Out: 407.424 $\pm$ 0.084 χ^2 /NDF: 11017110.3/33

Left In: 316.647 $\pm$ 0.054 χ^2 /NDF: 920874.0/22

Left: 315.560 $\pm$ 0.038 χ^2 /NDF: 2034094.8/47

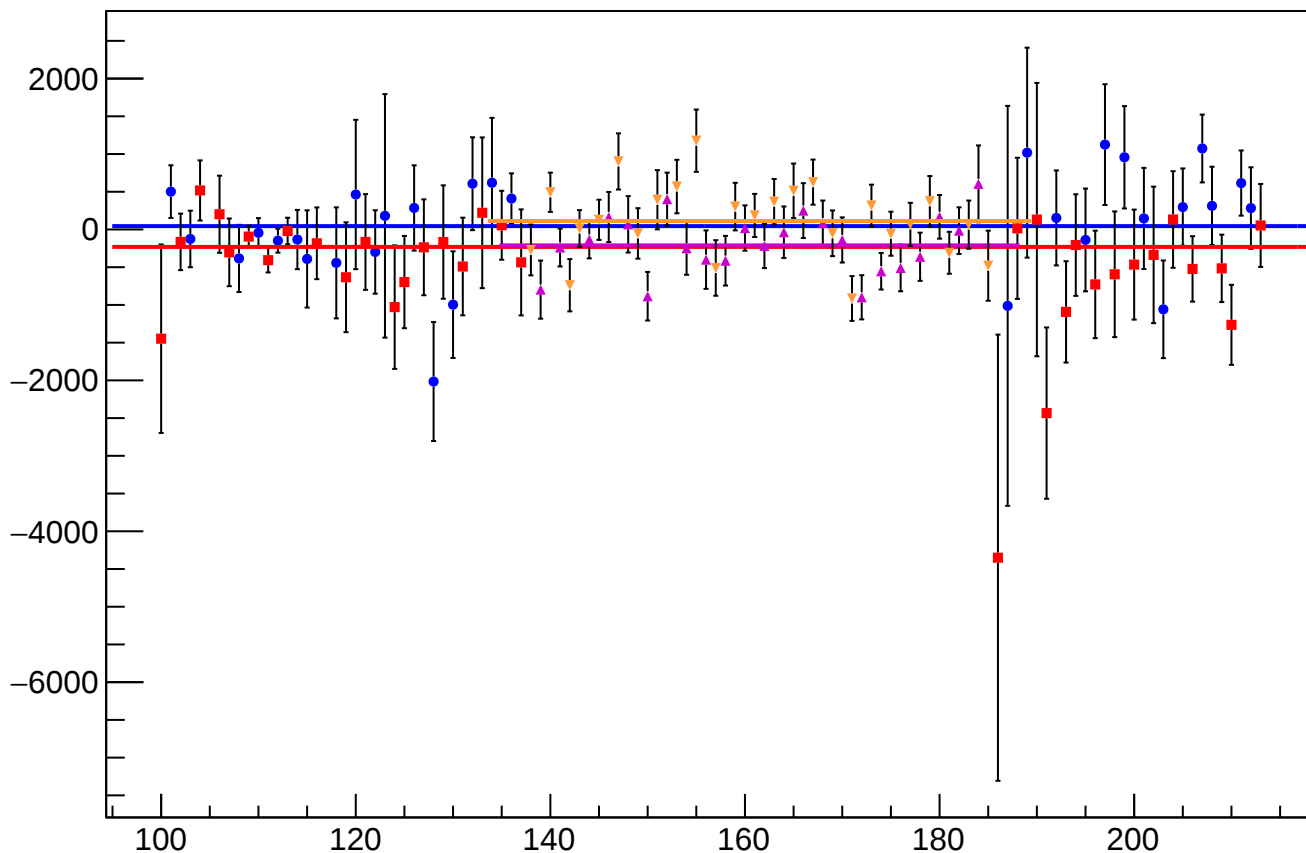
Right: 423.320 $\pm$ 0.062 χ^2 /NDF: 19260540.4/63

In: 349.421 $\pm$ 0.047 χ^2 /NDF: 10475798.2/52

Out: 340.570 $\pm$ 0.045 χ^2 /NDF: 12999770.6/58

All: 344.801 $\pm$ 0.032 χ^2 /NDF: 23494298.7/111

asym_sam8_mean vs Slug, Sign Corrected



Right In: 44.427+/-79.927 χ^2/NDF : 32.9/29

Left Out: 112.242+/-62.643 χ^2/NDF : 49.1/24

Right Out: -230.837+/-70.408 χ^2/NDF : 25.0/33

Left In: -210.453+/-65.510 χ^2/NDF : 29.2/22

Left: -41.890+/-45.275 χ^2/NDF : 91.0/47

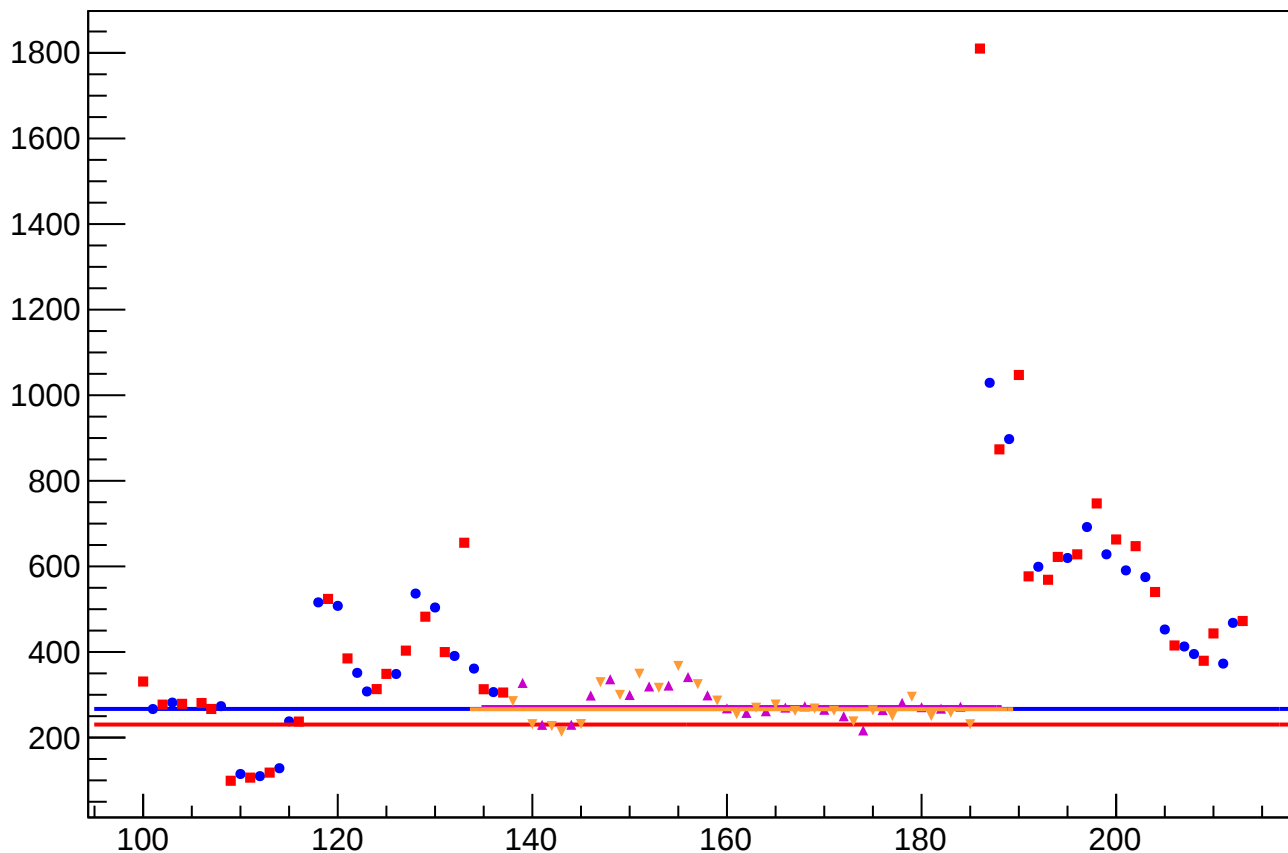
Right: -110.565+/-52.833 χ^2/NDF : 64.5/63

In: -108.033+/-50.666 χ^2/NDF : 68.1/52

Out: -39.344+/-46.801 χ^2/NDF : 87.4/58

All: -70.968+/-34.379 χ^2/NDF : 156.4/111

asym_sam8_rms vs Slug, Sign Corrected



Right In: 266.937 $\pm$ 0.057 χ^2 /NDF: 9177269.5/29

Left Out: 266.207 $\pm$ 0.044 χ^2 /NDF: 649629.9/24

Right Out: 230.453 $\pm$ 0.050 χ^2 /NDF: 12833622.4/33

Left In: 271.415 $\pm$ 0.046 χ^2 /NDF: 521877.7/22

Left: 268.695 $\pm$ 0.032 χ^2 /NDF: 1178109.8/47

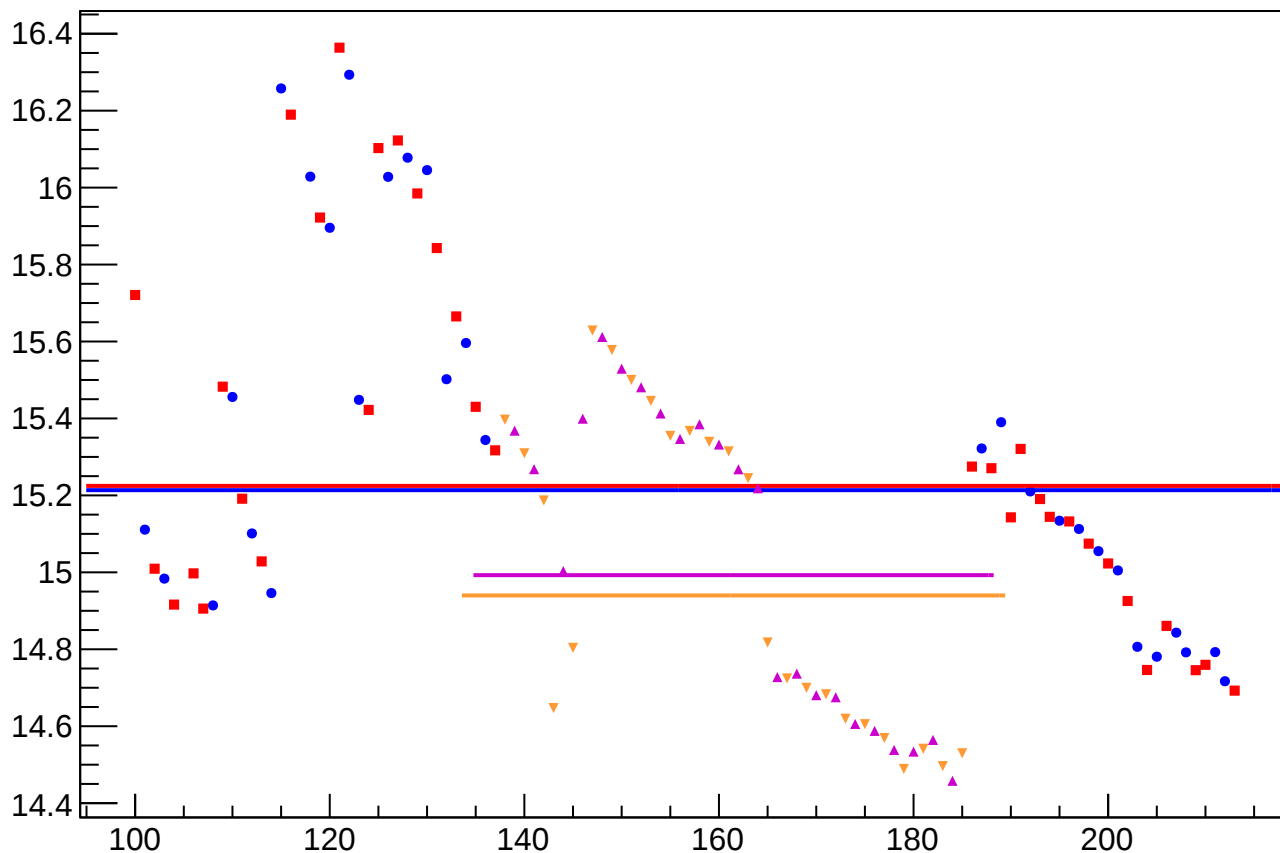
Right: 246.394 $\pm$ 0.037 χ^2 /NDF: 22245538.6/63

In: 269.616 $\pm$ 0.036 χ^2 /NDF: 9702901.8/52

Out: 250.410 $\pm$ 0.033 χ^2 /NDF: 13771124.5/58

All: 259.252 $\pm$ 0.024 χ^2 /NDF: 23629100.3/11

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.214+/-0.000 χ^2/NDF : 17162611556.6/29

Left Out: 14.940+/-0.000 χ^2/NDF : 24199653913.9/24

Right Out: 15.225+/-0.000 χ^2/NDF : 17289690065.7/33

Left In: 14.993+/-0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965+/-0.000 χ^2/NDF : 46444749587.5/47

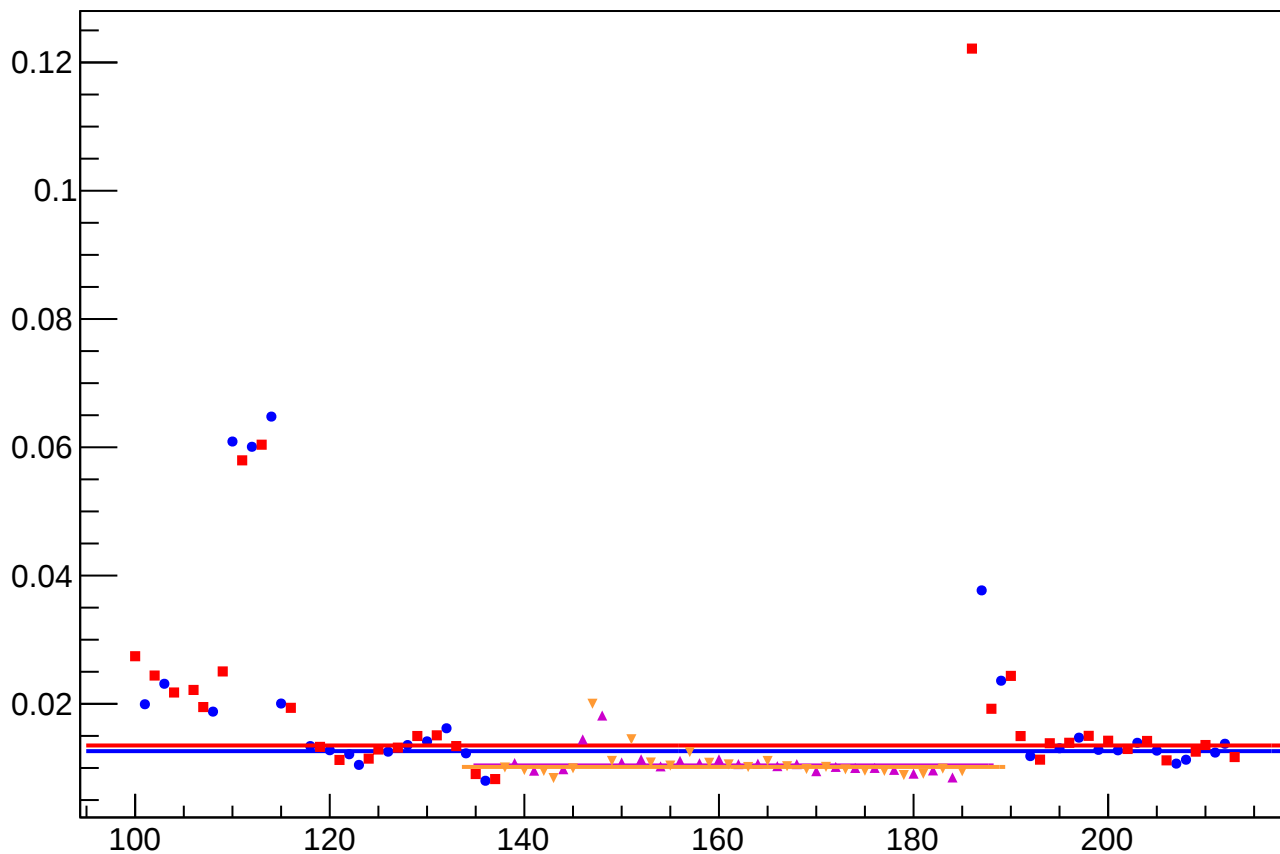
Right: 15.219+/-0.000 χ^2/NDF : 34457476467.4/63

In: 15.073+/-0.000 χ^2/NDF : 41884193963.4/52

Out: 15.033+/-0.000 χ^2/NDF : 45912309722.9/58

All: 15.052+/-0.000 χ^2/NDF : 87993415502.0

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2582082.8/29

Left Out: 0.010+/-0.000 χ^2/NDF : 717351.4/24

Right Out: 0.014+/-0.000 χ^2/NDF : 3134733.5/33

Left In: 0.010+/-0.000 χ^2/NDF : 544268.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1270343.0/47

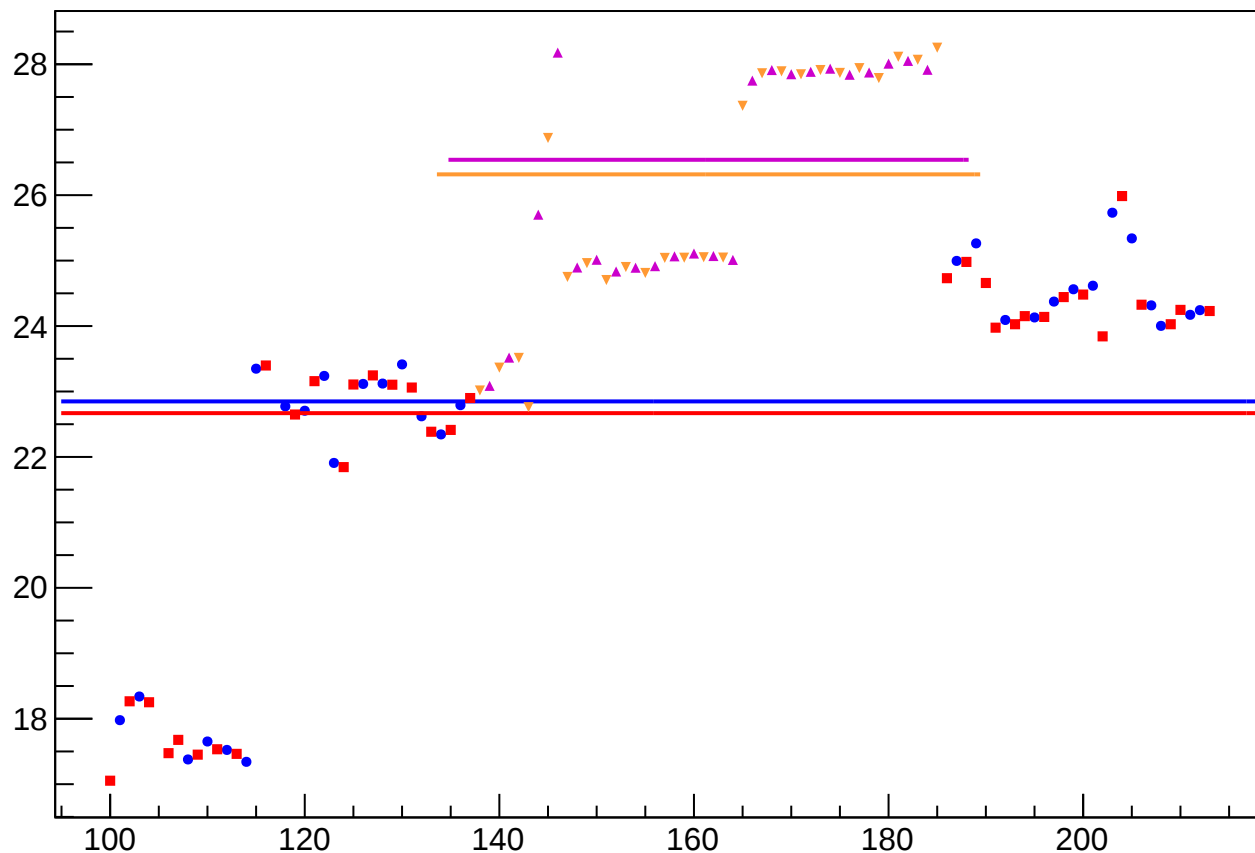
Right: 0.013+/-0.000 χ^2/NDF : 5782108.3/63

In: 0.011+/-0.000 χ^2/NDF : 3675603.3/52

Out: 0.011+/-0.000 χ^2/NDF : 5072631.2/58

All: 0.011+/-0.000 χ^2/NDF : 8748765.6/111

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.849+/-0.000

χ^2/NDF : 1364464586.4/29

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right: 22.763+/-0.000

χ^2/NDF : 2939763636.0/63

Right Out: 22.669+/-0.000

χ^2/NDF : 1568954765.7/33

In: 25.650+/-0.000

χ^2/NDF : 8930821767.9/52

Out: 25.545+/-0.000

χ^2/NDF : 10258526175.7/58

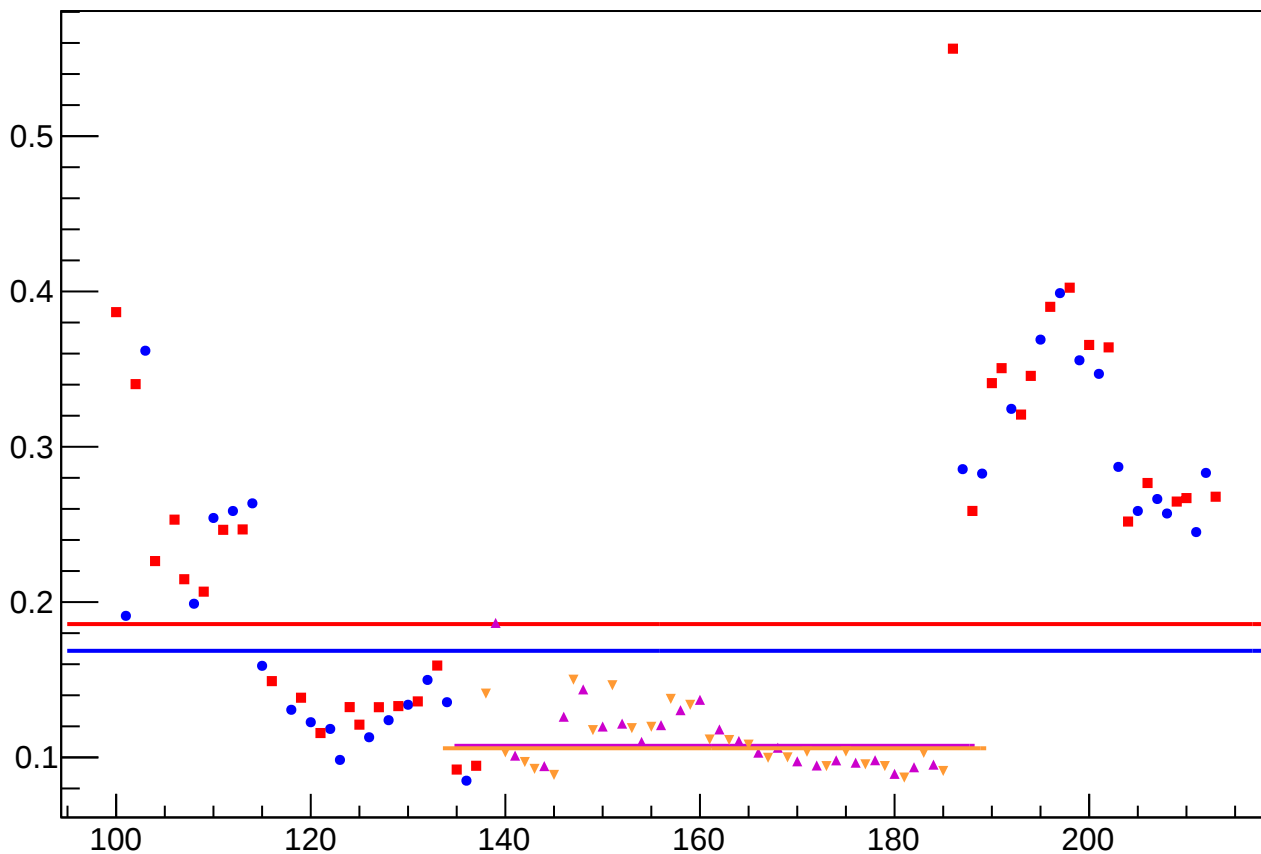
Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

All: 25.597+/-0.000

χ^2/NDF : 19198960790.4

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.169 $\pm$ 0.000 χ^2 /NDF: 6158030.8/29

Left Out: 0.106 $\pm$ 0.000 χ^2 /NDF: 732883.8/24

Right Out: 0.186 $\pm$ 0.000 χ^2 /NDF: 6039188.7/33

Left In: 0.107 $\pm$ 0.000 χ^2 /NDF: 771132.0/22

Left: 0.107 $\pm$ 0.000 χ^2 /NDF: 1507414.2/47

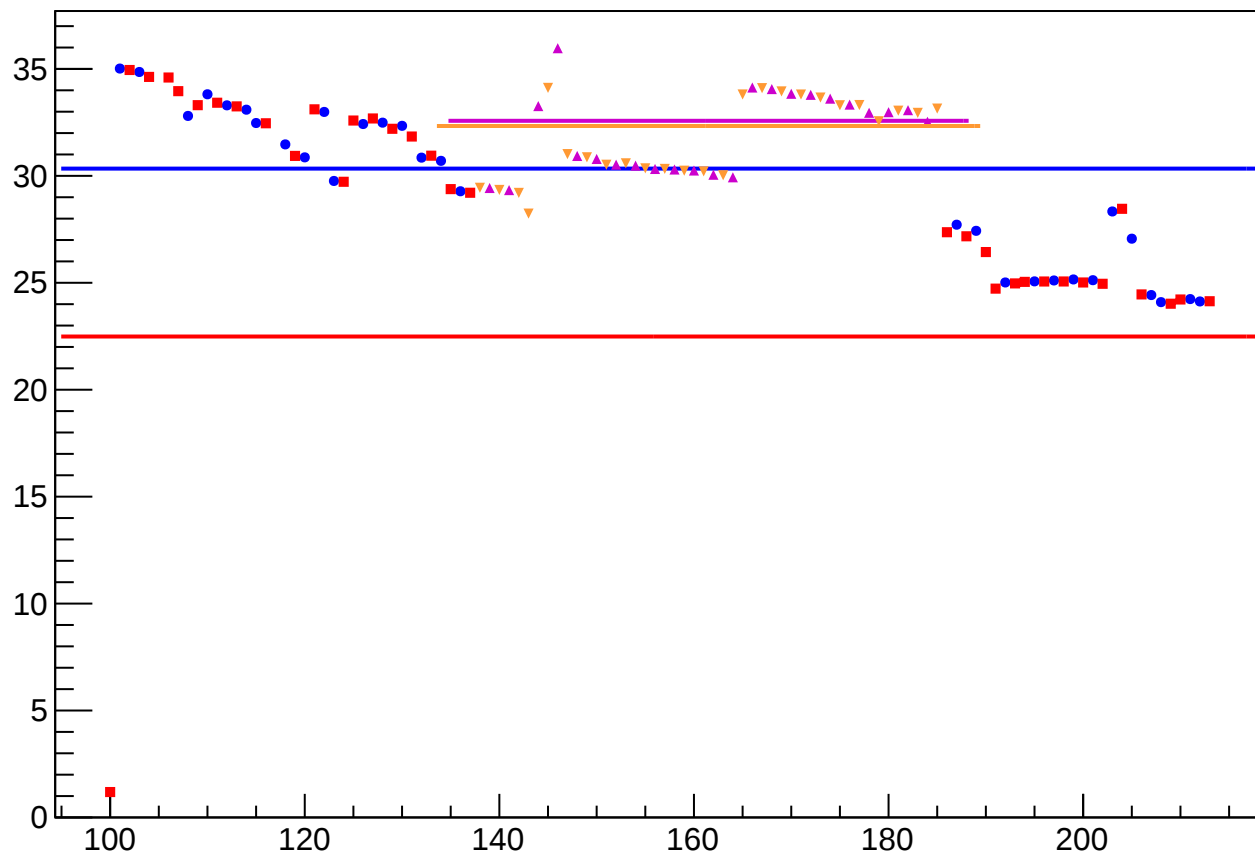
Right: 0.177 $\pm$ 0.000 χ^2 /NDF: 12314102.4/63

In: 0.122 $\pm$ 0.000 χ^2 /NDF: 9265741.3/52

Out: 0.123 $\pm$ 0.000 χ^2 /NDF: 10589671.7/58

All: 0.123 $\pm$ 0.000 χ^2 /NDF: 19856030.7/111

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.339+/-0.000

χ^2/NDF : 9345344575.8/29

Left: 32.450+/-0.000

χ^2/NDF : 24766521375.8/47

Left Out: 32.331+/-0.000

χ^2/NDF : 12850475096.2/24

Right: 25.797+/-0.000

χ^2/NDF : 275286733832.7/63

Right Out: 22.488+/-0.000

χ^2/NDF : 232274503370.3/33

In: 32.140+/-0.000

χ^2/NDF : 24944284320.1/52

Out: 29.965+/-0.000

χ^2/NDF : 340513850274.5/58

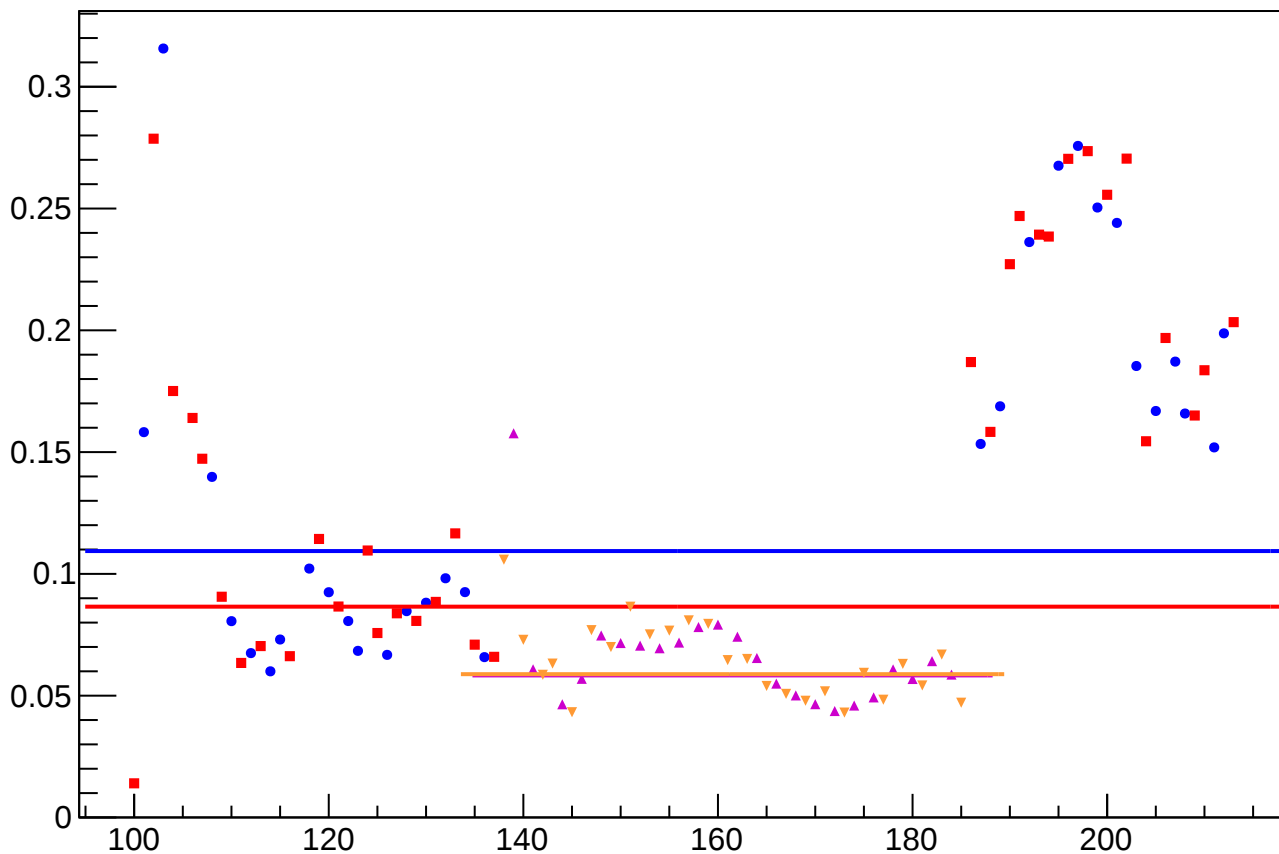
Left In: 32.574+/-0.000

χ^2/NDF : 11797772603.7/22

All: 30.997+/-0.000

χ^2/NDF : 377555066176.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.109+/-0.000 χ^2/NDF : 6208533.9/29

Left Out: 0.059+/-0.000 χ^2/NDF :1402605.2/24

Right Out: 0.087+/-0.000 χ^2/NDF : 11834529.8/33

Left In: 0.058+/-0.000 χ^2/NDF :1525476.4/22

Left: 0.059+/-0.000 χ^2/NDF : 2929140.7/47

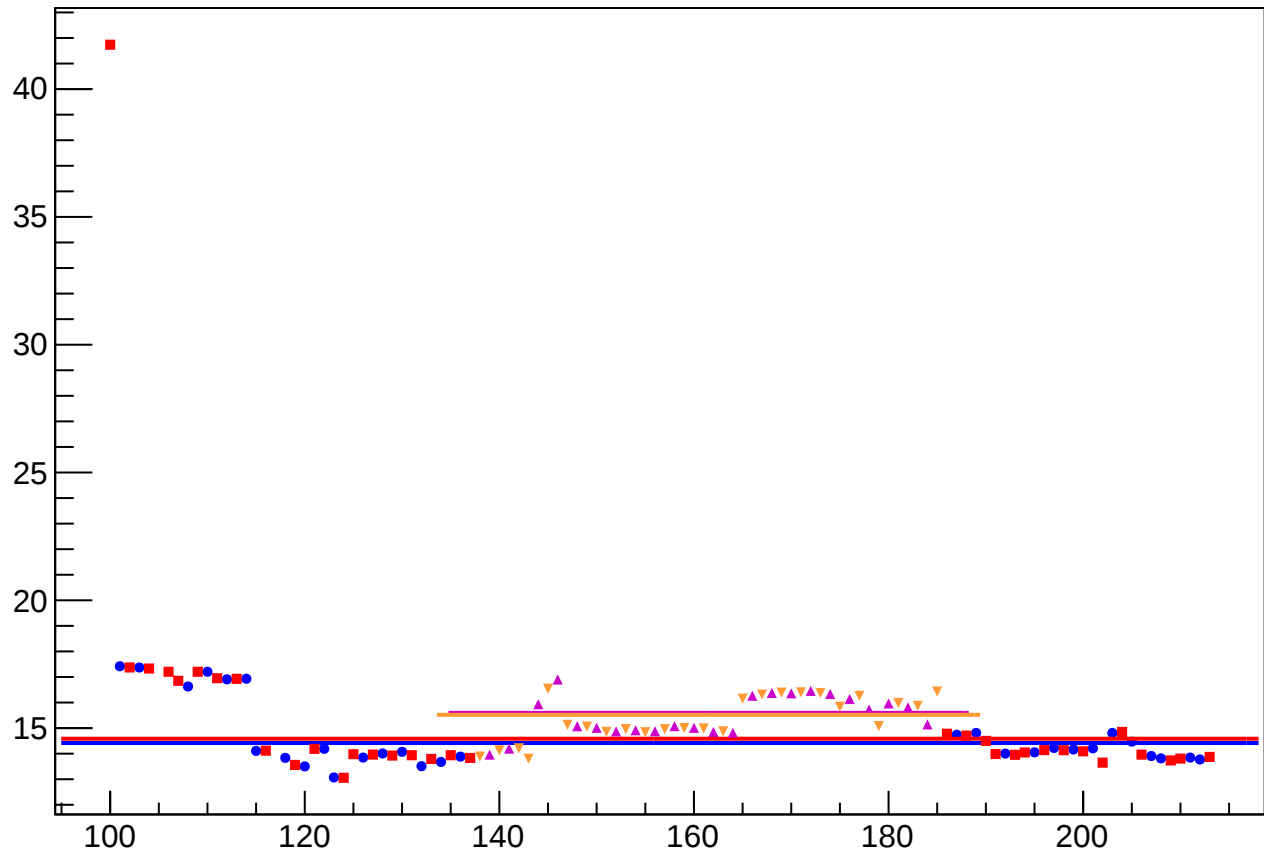
Right: 0.096+/-0.000 χ^2/NDF : 18612499.7/63

In: 0.068+/-0.000 χ^2/NDF :11701270.3/52

Out: 0.065+/-0.000 χ^2/NDF :14749670.4/58

All: 0.067+/-0.000 χ^2/NDF : 26489217.0/111

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.417+/-0.000

χ^2/NDF : 1558918185.6/29

Left: 15.557+/-0.000

χ^2/NDF : 4510008259.4/47

Left Out: 15.521+/-0.000

χ^2/NDF : 2591377740.5/24

Right: 14.499+/-0.000

χ^2/NDF : 3613641268.2/63

Right Out: 14.585+/-0.000

χ^2/NDF : 2038592431.9/33

In: 15.298+/-0.000

χ^2/NDF : 4674501926.8/52

Out: 15.308+/-0.000

χ^2/NDF : 5376034367.1/58

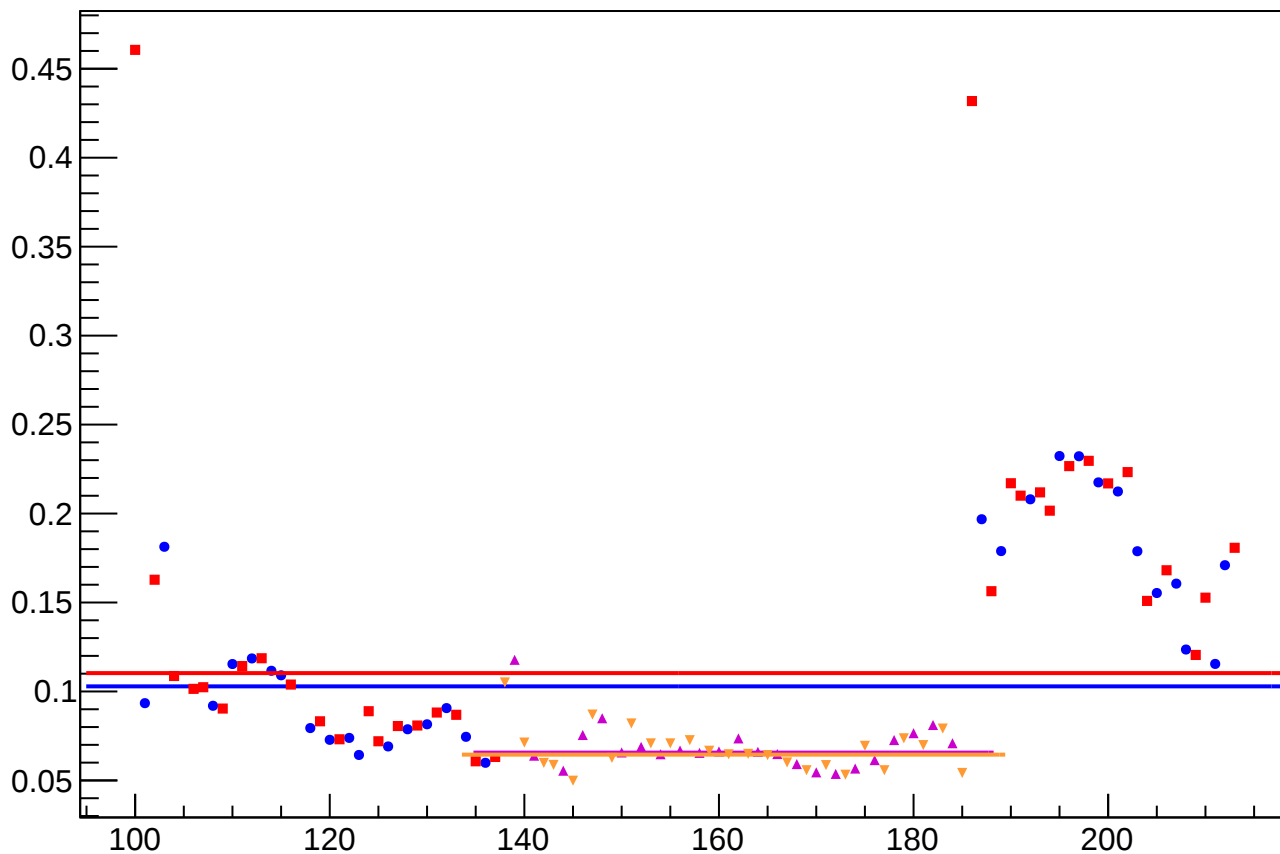
Left In: 15.595+/-0.000

χ^2/NDF : 1908733580.5/22

All: 15.303+/-0.000

χ^2/NDF : 10050815852.8

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.103+/-0.000 χ^2/NDF : 5102459.8/29

Left Out: 0.064+/-0.000 χ^2/NDF : 761552.3/24

Right Out: 0.110+/-0.000 χ^2/NDF : 5332241.4/33

Left In: 0.066+/-0.000 χ^2/NDF : 714703.1/22

Left: 0.065+/-0.000 χ^2/NDF : 1481007.6/47

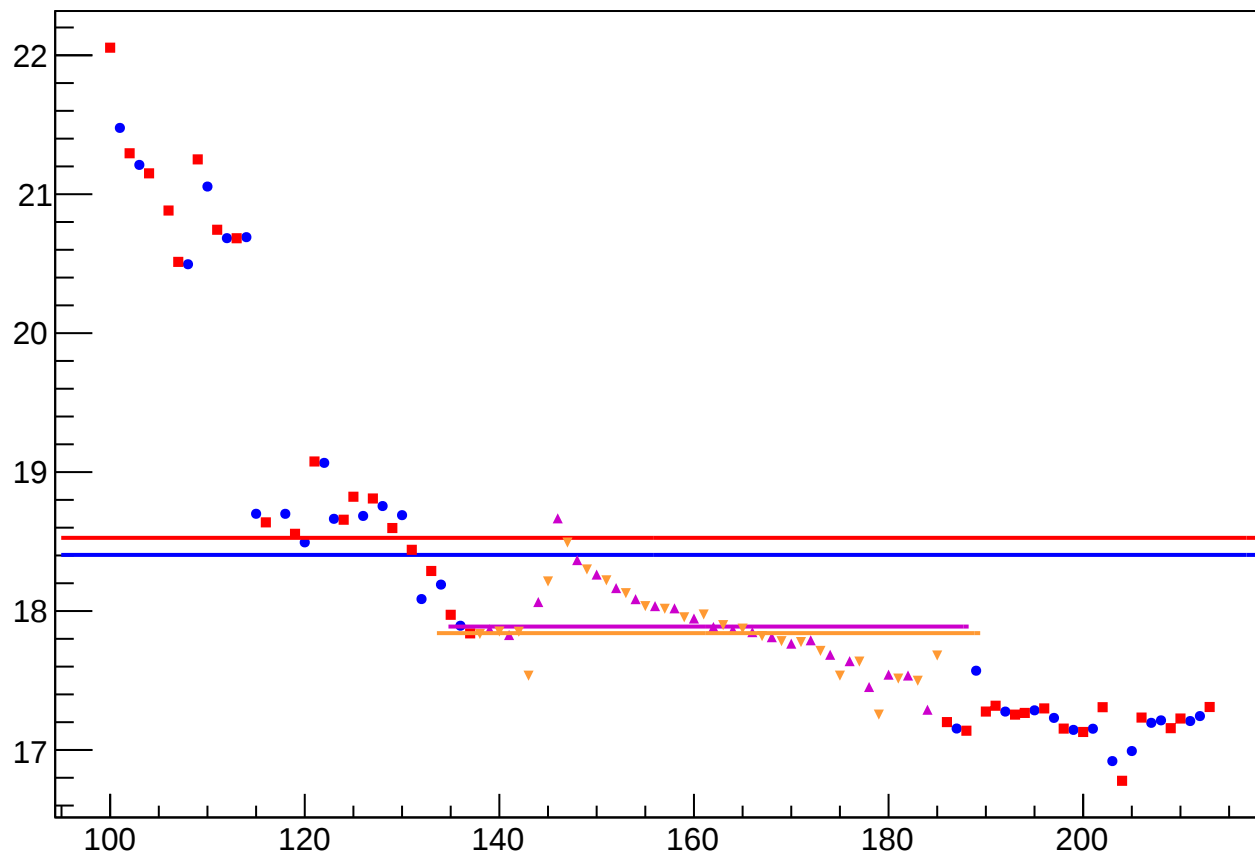
Right: 0.106+/-0.000 χ^2/NDF : 10497525.2/63

In: 0.075+/-0.000 χ^2/NDF : 8224244.8/52

Out: 0.075+/-0.000 χ^2/NDF : 9673219.7/58

All: 0.075+/-0.000 χ^2/NDF : 17897558.8/111

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.404+/-0.000

χ^2/NDF : 31905257071.9/29

Left Out: 17.841+/-0.000

χ^2/NDF : 1283287989.7/24

Right Out: 18.527+/-0.000

χ^2/NDF : 34195733248.9/33

Left In: 17.888+/-0.000

χ^2/NDF : 1203002311.3/22

Left: 17.864+/-0.000

χ^2/NDF : 2506375288.6/47

Right: 18.466+/-0.000

χ^2/NDF : 66195305307.2/63

In: 18.103+/-0.000

χ^2/NDF : 35033030181.4/52

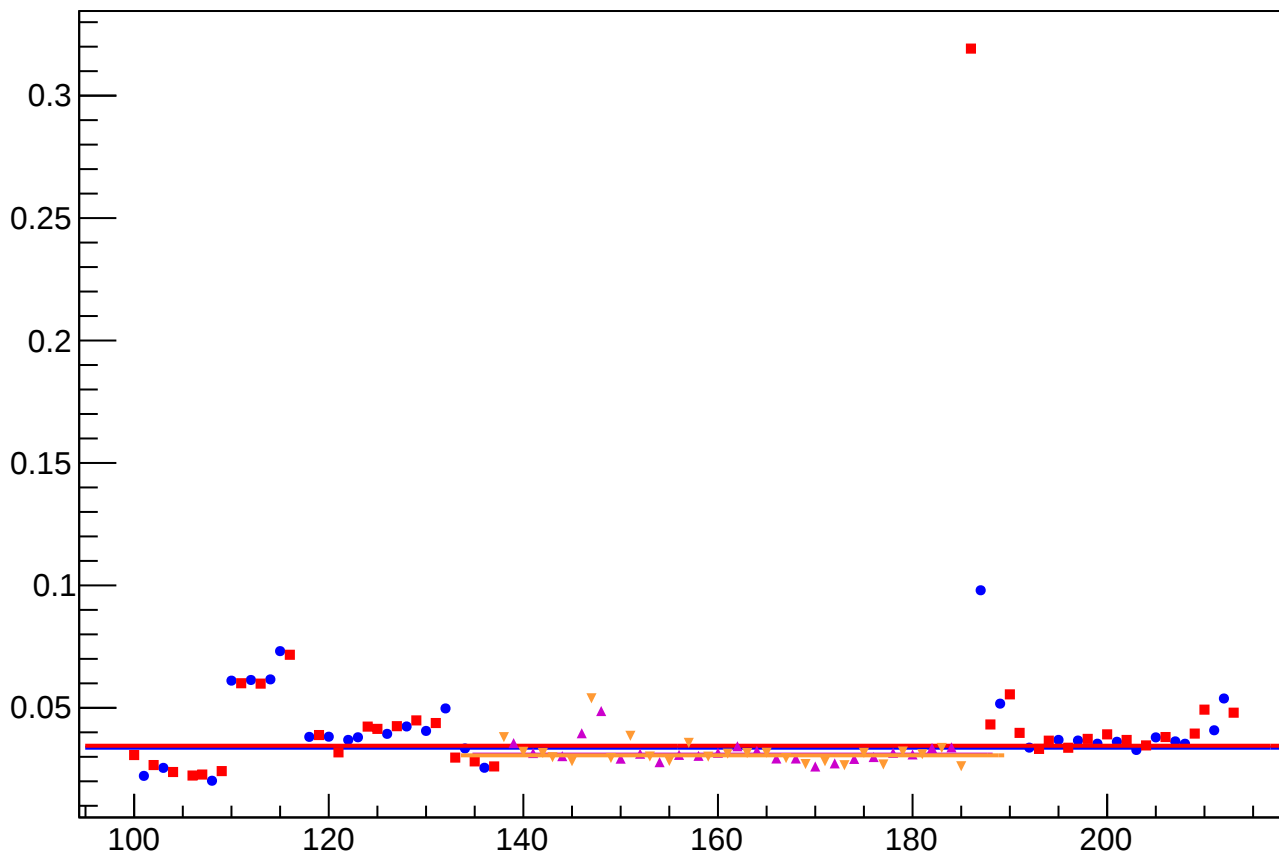
Out: 18.118+/-0.000

χ^2/NDF : 39018475107.6/58

All: 18.111+/-0.000

χ^2/NDF : 74054805581.4

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.000 χ^2 /NDF: 1993511.1/29

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 2431955.5/33

Left In: 0.031 $\pm$ 0.000 χ^2 /NDF:453524.6/22

Left: 0.031 $\pm$ 0.000 χ^2 /NDF: 1045553.8/47

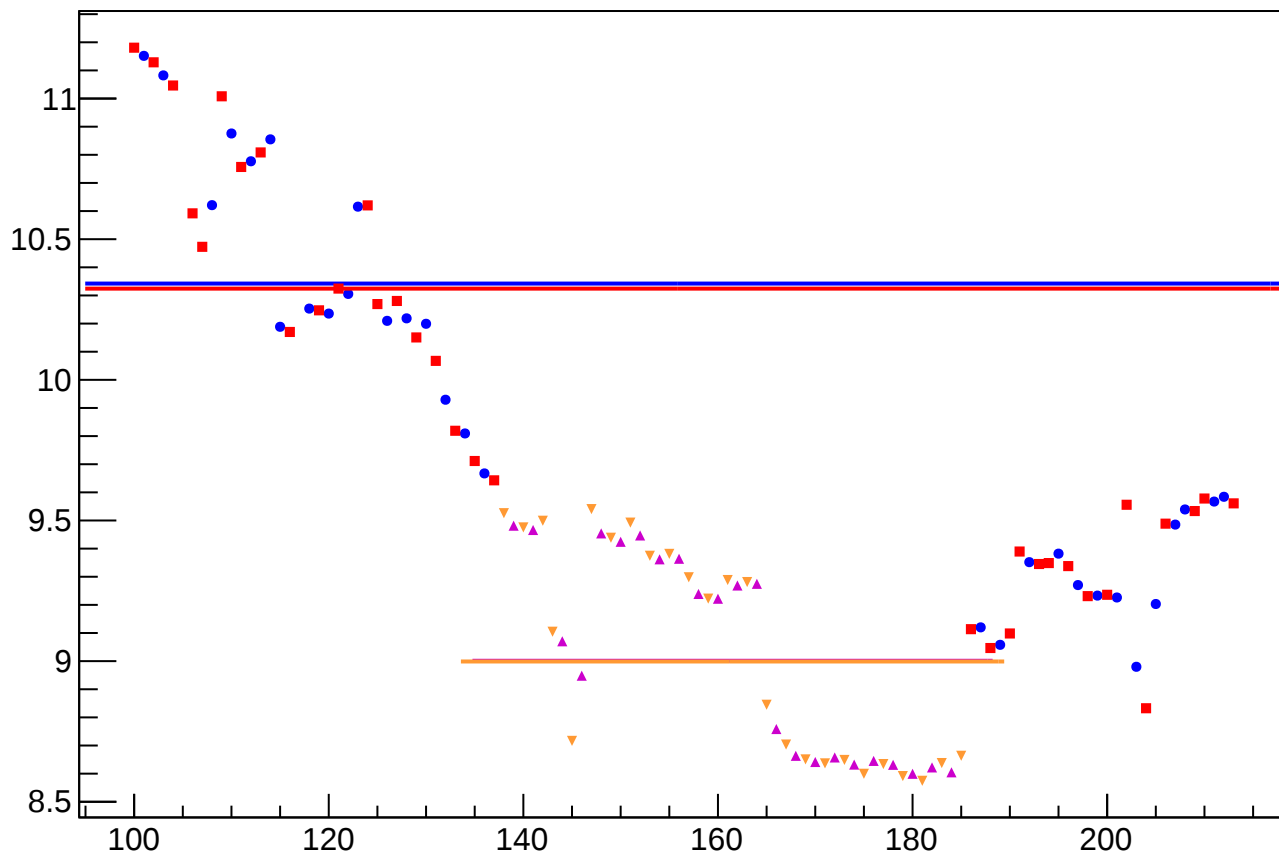
Right: 0.034 $\pm$ 0.000 χ^2 /NDF: 4433569.5/63

In: 0.032 $\pm$ 0.000 χ^2 /NDF:2562419.6/52

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:3253986.8/58

All: 0.032 $\pm$ 0.000 χ^2 /NDF: 5816796.3/111

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.342+/-0.000 χ^2/NDF : 15390943756.1/29

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.324+/-0.000 χ^2/NDF : 13995871997.3/33

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

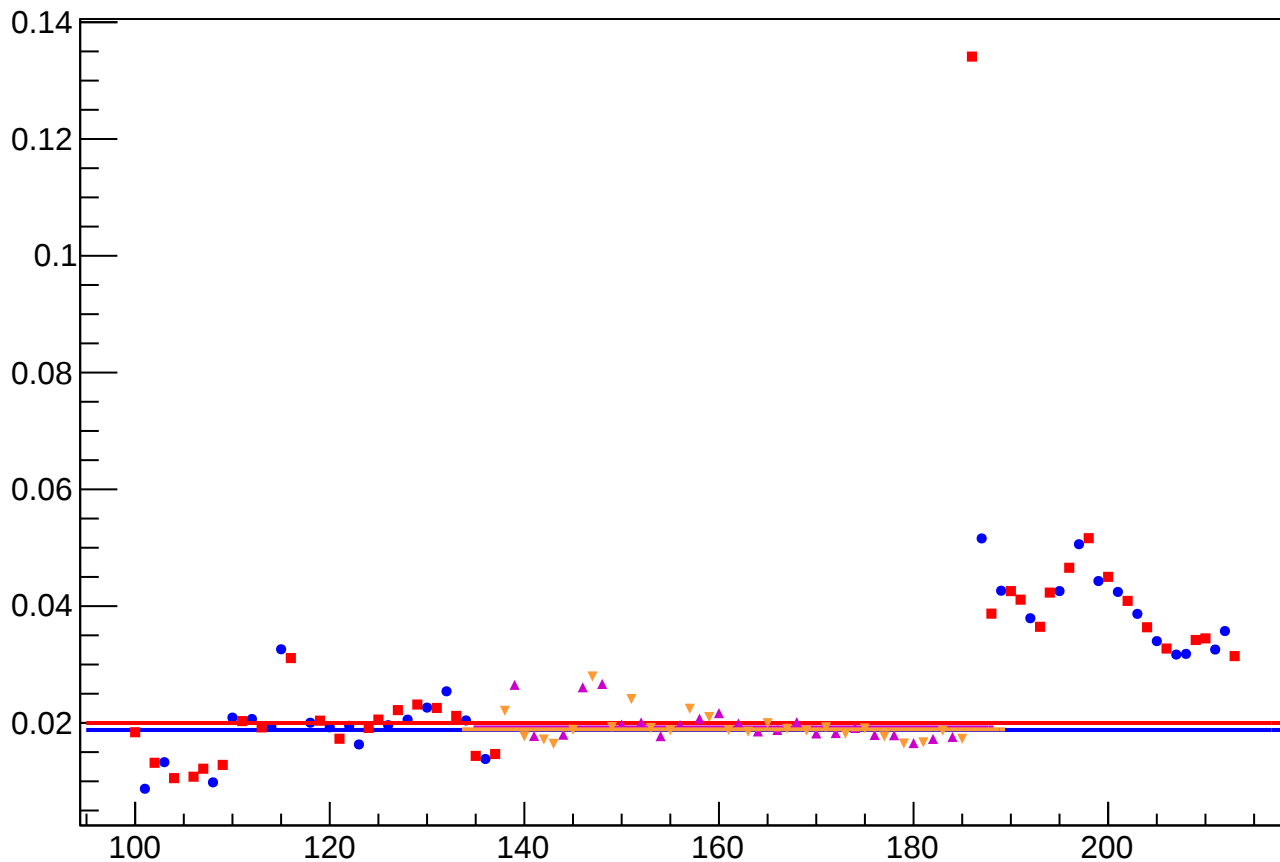
Right: 10.333+/-0.000 χ^2/NDF : 29391981017.8/63

In: 9.578+/-0.000 χ^2/NDF : 53827943652.3/52

Out: 9.533+/-0.000 χ^2/NDF : 53673036600.1/58

All: 9.555+/-0.000 χ^2/NDF : 107578919595.0

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 7174088.4/29

Left Out: 0.019+/-0.000 χ^2/NDF :428169.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 7202105.1/33

Left In: 0.019+/-0.000 χ^2/NDF :481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

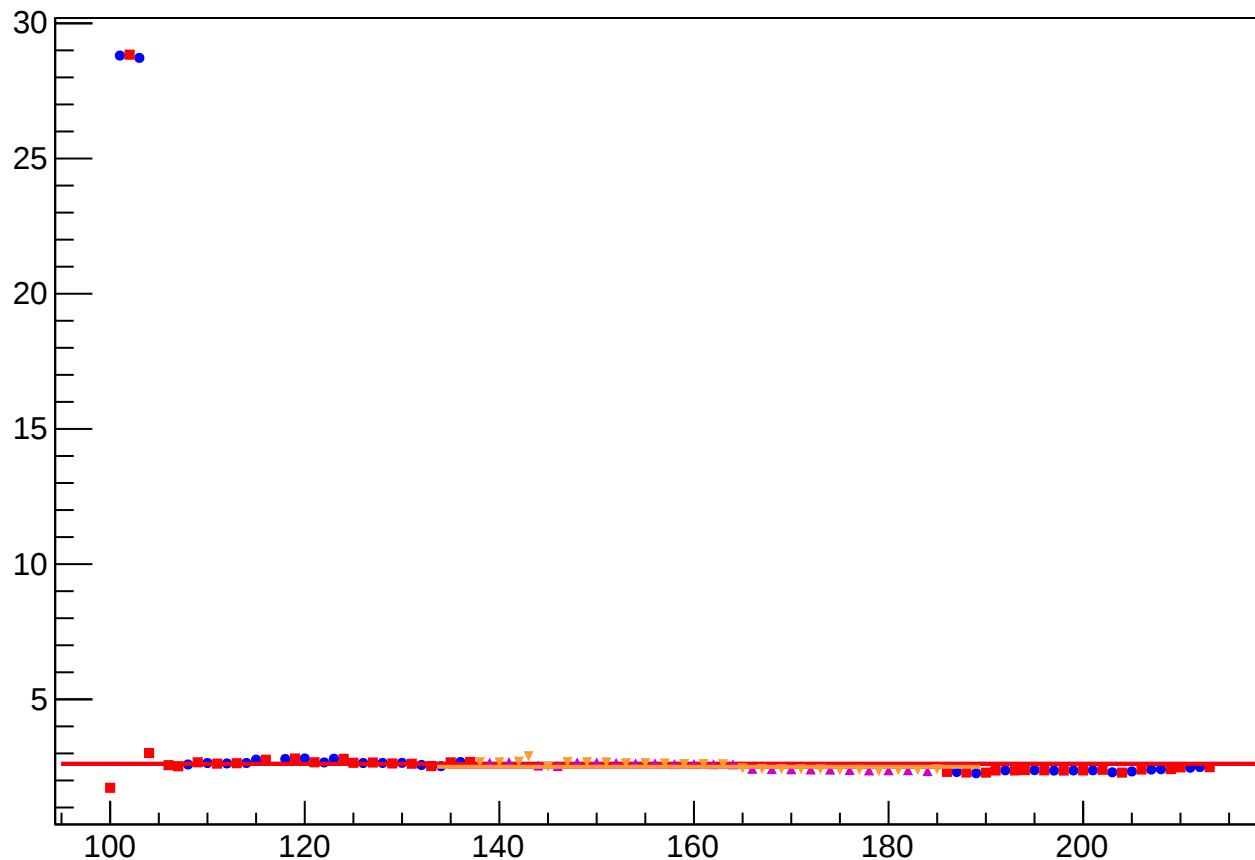
Right: 0.019+/-0.000 χ^2/NDF : 14422006.5/63

In: 0.019+/-0.000 χ^2/NDF :7662901.6/52

Out: 0.019+/-0.000 χ^2/NDF :7675112.5/58

All: 0.019+/-0.000 χ^2/NDF : 15344865.1/111

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.617 $\pm$ 0.000 χ^2 /NDF: 181614045731.8/29

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.613 $\pm$ 0.000 χ^2 /NDF: 90696072608.1/33

Left In: 2.505 $\pm$ 0.000 χ^2 /NDF: 42893630742.5/22

Left: 2.506 $\pm$ 0.000 χ^2 /NDF: 107174595641.7/47

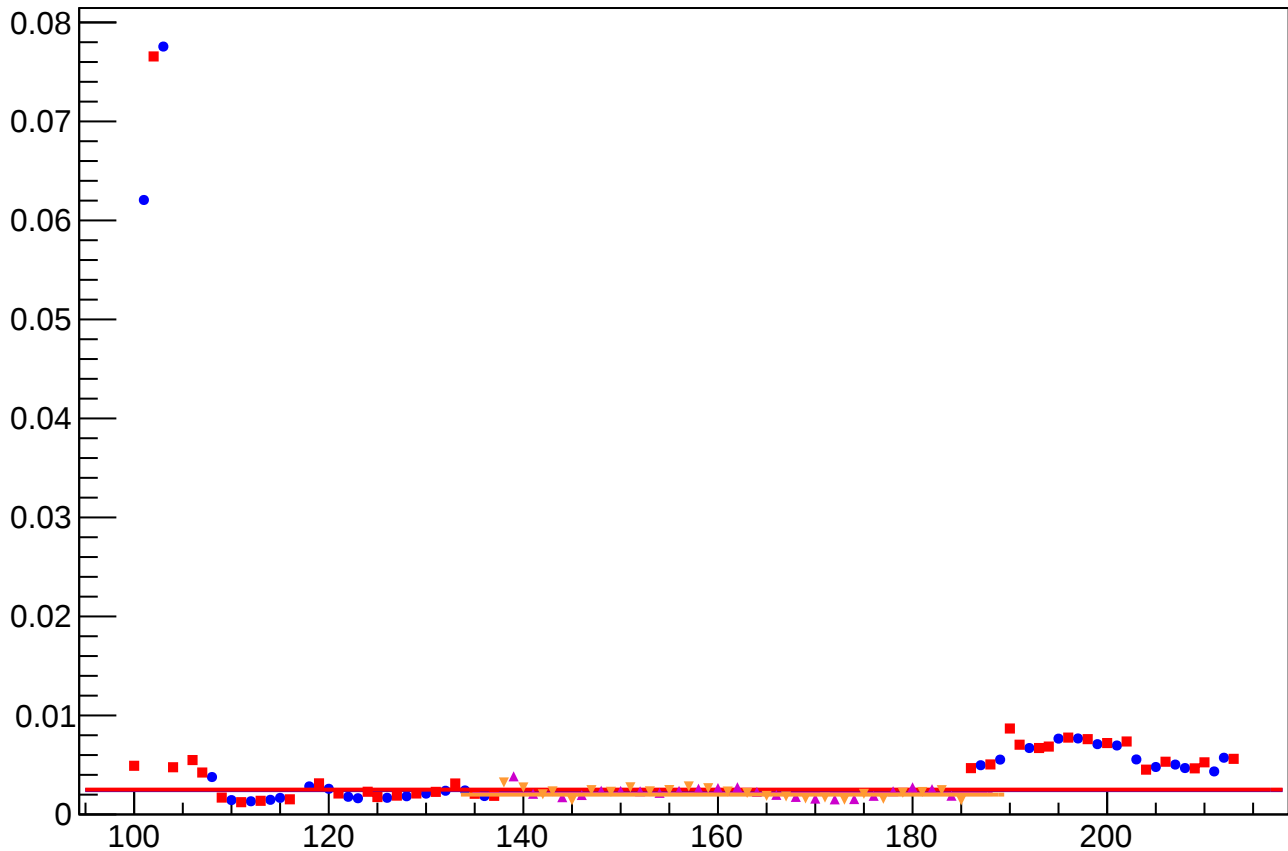
Right: 2.615 $\pm$ 0.000 χ^2 /NDF: 272323445866.2/63

In: 2.542 $\pm$ 0.000 χ^2 /NDF: 238094087536.0/52

Out: 2.540 $\pm$ 0.000 χ^2 /NDF: 168104740790.7/58

All: 2.541 $\pm$ 0.000 χ^2 /NDF: 406206489414.6

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 9848945.4/29

Left Out: 0.002+/-0.000 χ^2/NDF :1469103.5/24

Right Out: 0.003+/-0.000 χ^2/NDF : 10307160.1/33

Left In: 0.002+/-0.000 χ^2/NDF :1303230.9/22

Left: 0.002+/-0.000 χ^2/NDF : 2781893.0/47

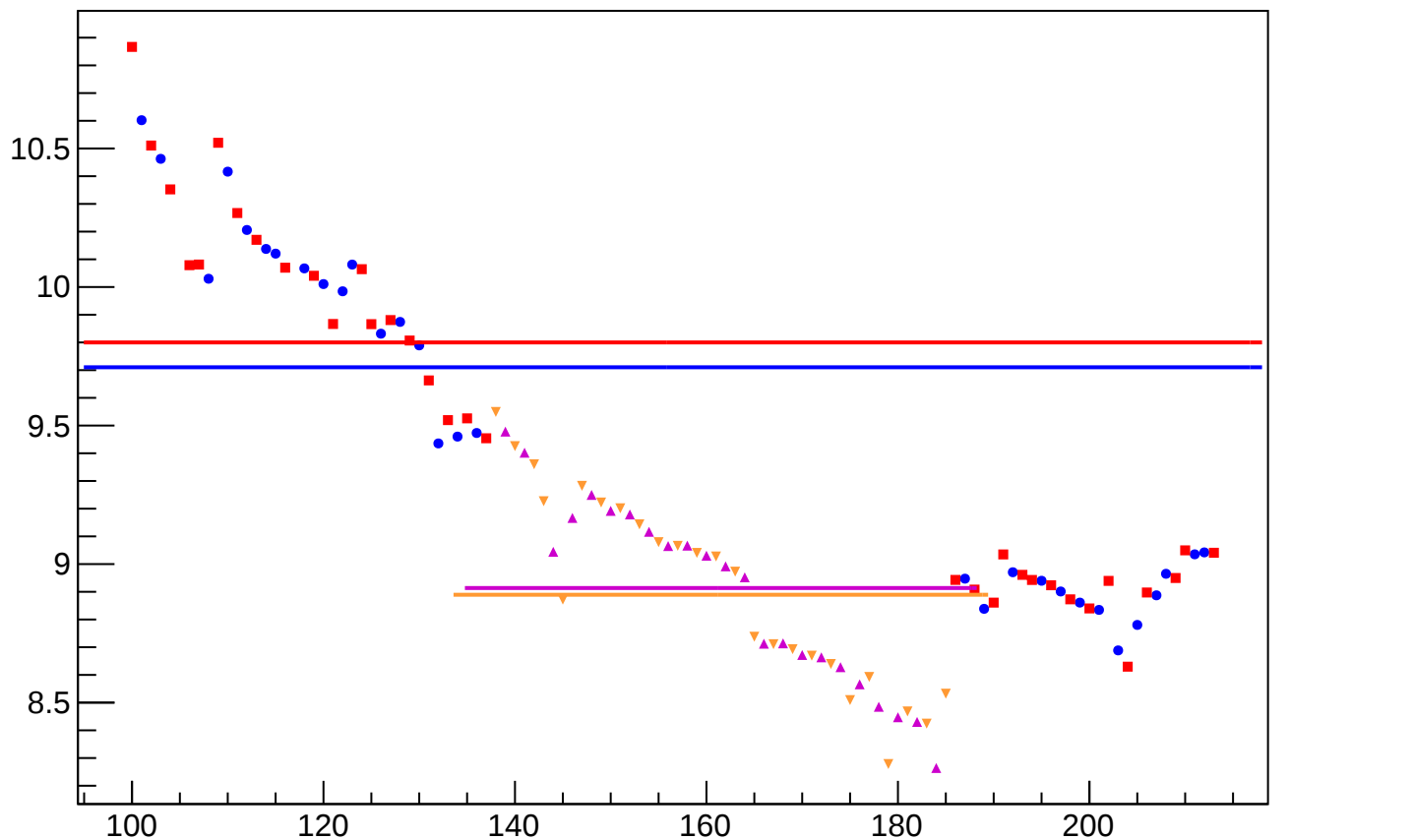
Right: 0.002+/-0.000 χ^2/NDF : 20159822.1/63

In: 0.002+/-0.000 χ^2/NDF :11498995.7/52

Out: 0.002+/-0.000 χ^2/NDF :12353585.9/58

All: 0.002+/-0.000 χ^2/NDF : 23855976.0/111

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.710 $\pm$ 0.000 χ^2/NDF : 73610991896.1/29

Left Out: 8.889 $\pm$ 0.000 χ^2/NDF : 34704694045.9/24

Right Out: 9.800 $\pm$ 0.000 χ^2/NDF : 77424660555.8/33

Left In: 8.914 $\pm$ 0.000 χ^2/NDF : 28497227562.7/22

Left: 8.901 $\pm$ 0.000 χ^2/NDF : 63312247922.6/47

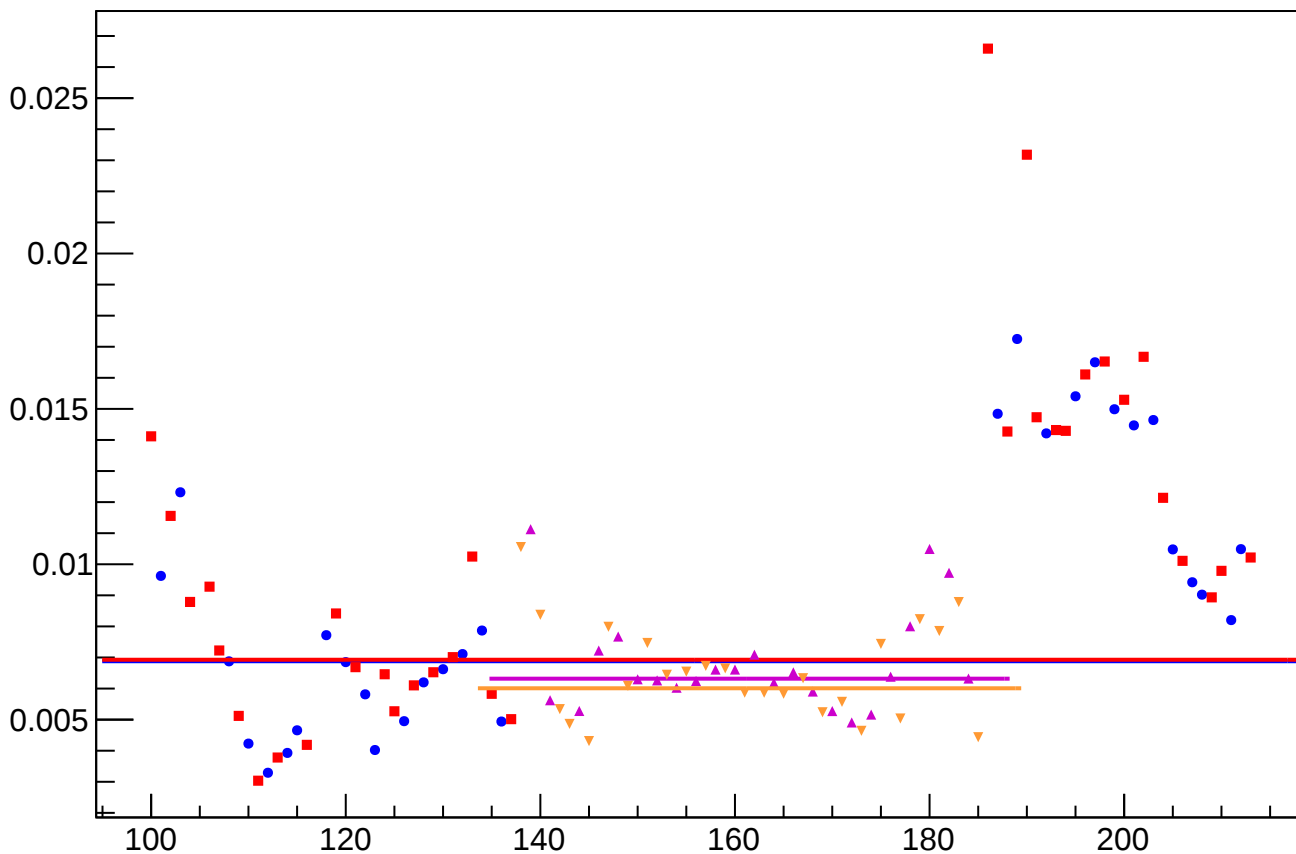
Right: 9.756 $\pm$ 0.000 χ^2/NDF : 152033571714.9/63

In: 9.243 $\pm$ 0.000 χ^2/NDF : 193328081435.0/52

Out: 9.240 $\pm$ 0.000 χ^2/NDF : 240689724672.3/58

All: 9.241 $\pm$ 0.000 χ^2/NDF : 434019807058.1

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 5945480.6/29

Left Out: 0.006+/-0.000 χ^2/NDF :1312525.9/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7550874.3/33

Left In: 0.006+/-0.000 χ^2/NDF :1087051.3/22

Left: 0.006+/-0.000 χ^2/NDF : 2435218.5/47

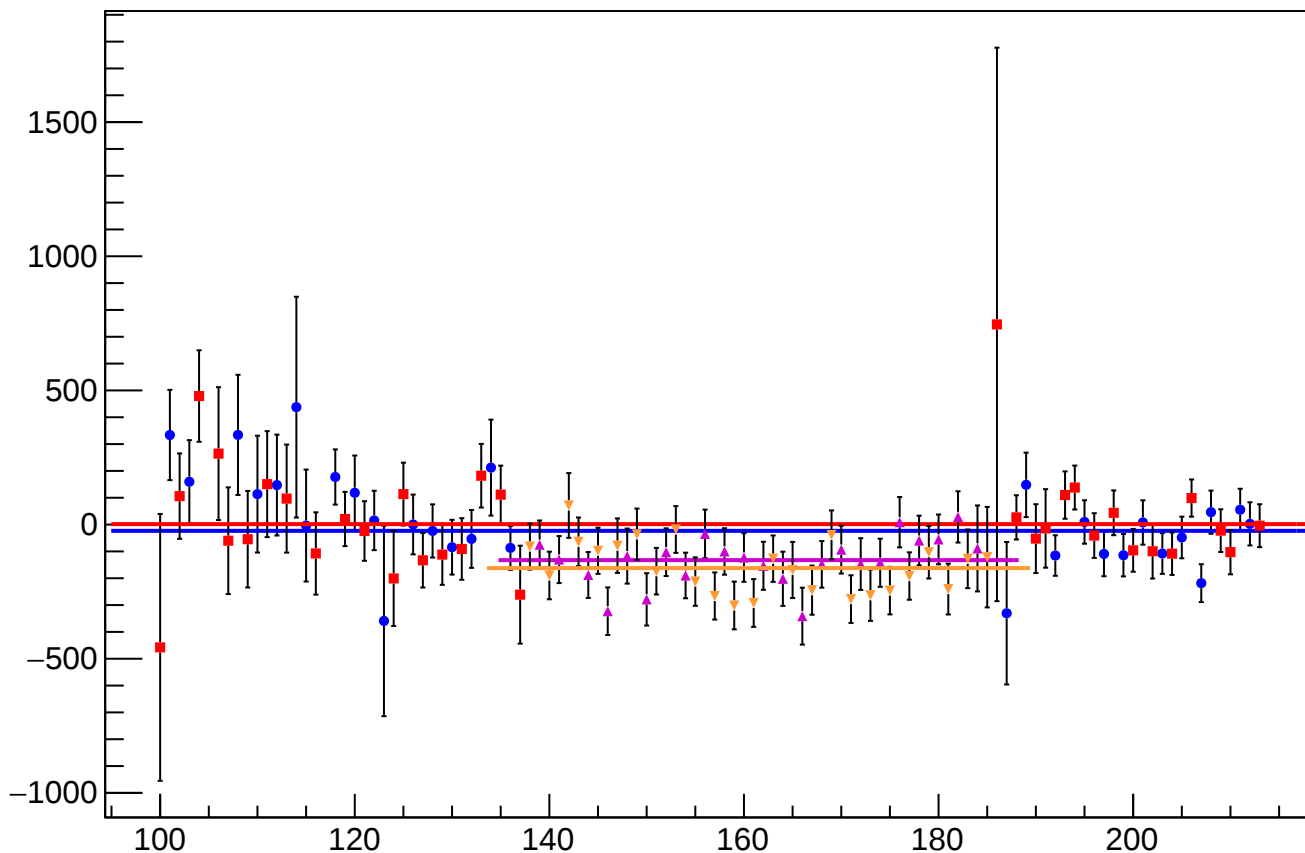
Right: 0.007+/-0.000 χ^2/NDF : 13496925.7/63

In: 0.007+/-0.000 χ^2/NDF :7123062.1/52

Out: 0.006+/-0.000 χ^2/NDF :9124749.0/58

All: 0.006+/-0.000 χ^2/NDF : 16269594.3/111

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -23.312 ± 18.784 $\chi^2/\text{NDF}: 38.0/29$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: 1.668 ± 18.673 $\chi^2/\text{NDF}: 36.6/33$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

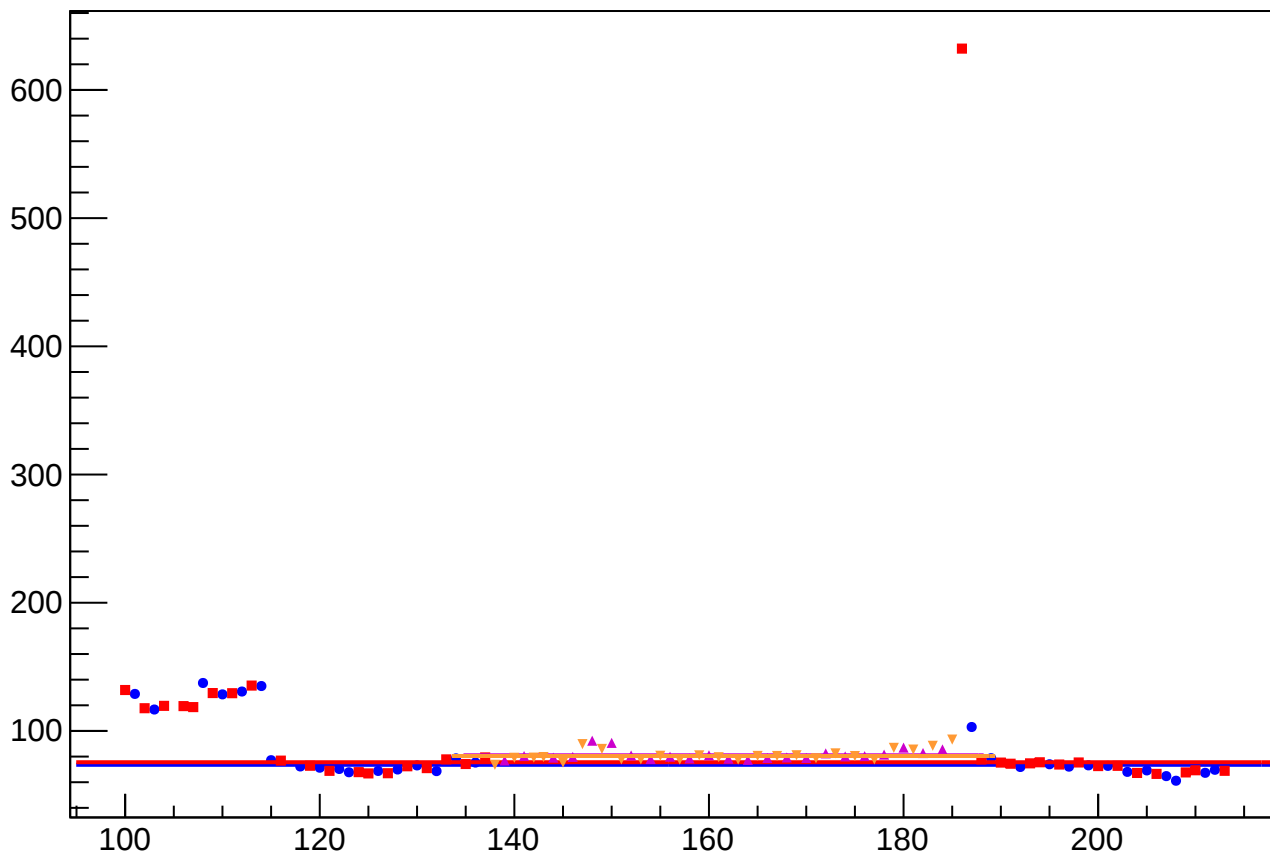
Right: -10.748 ± 13.243 $\chi^2/\text{NDF}: 75.5/63$

In: -76.165 ± 13.496 $\chi^2/\text{NDF}: 75.1/52$

Out: -79.934 ± 13.229 $\chi^2/\text{NDF}: 100.6/58$

All: -78.087 ± 9.447 $\chi^2/\text{NDF}: 175.8/111$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 73.591 $\pm$ 0.013 χ^2 /NDF: 1050510.5/29

Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF:89942.2/24

Right Out: 75.590 $\pm$ 0.013 χ^2 /NDF: 1695994.5/33

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

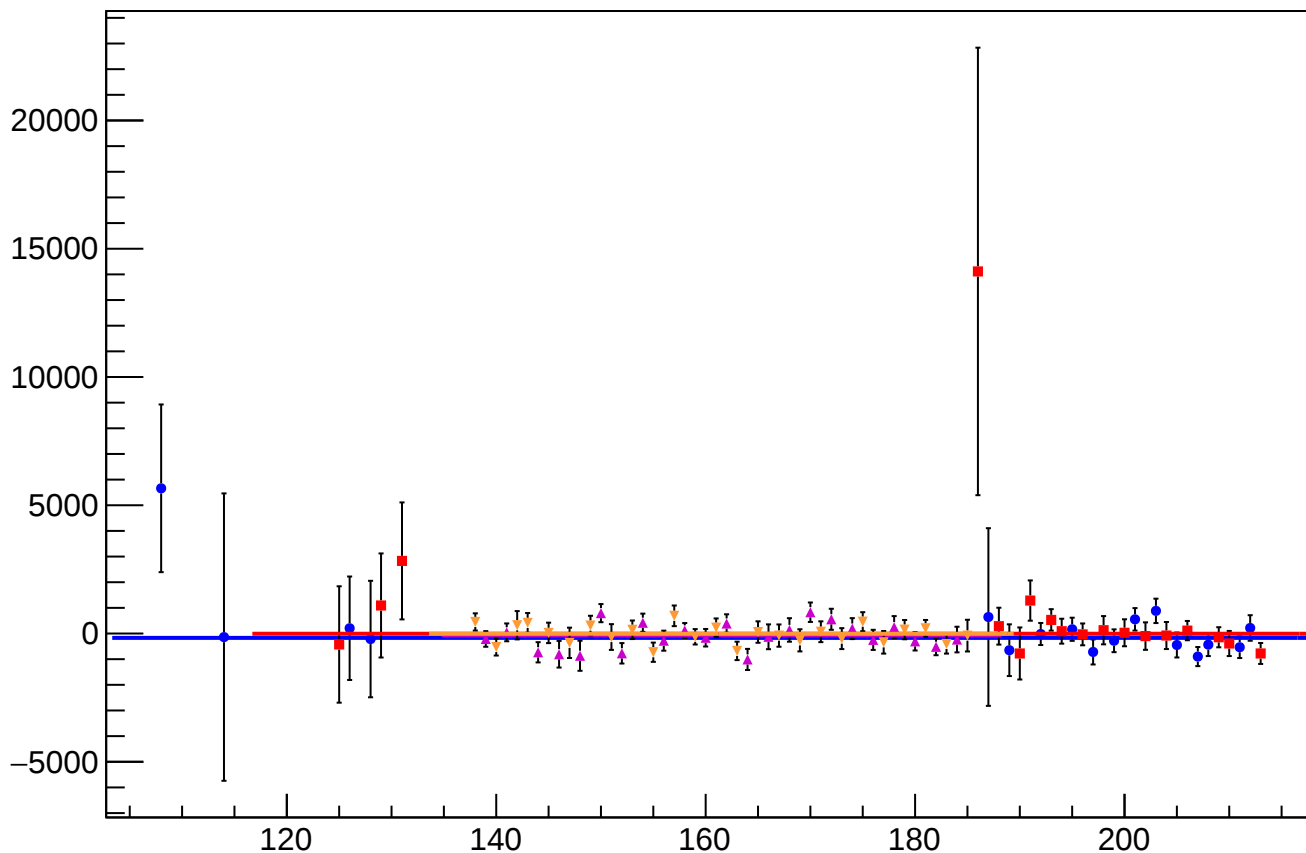
Right: 74.597 $\pm$ 0.009 χ^2 /NDF: 2757895.0/63

In: 77.182 $\pm$ 0.010 χ^2 /NDF:1273839.6/52

Out: 78.015 $\pm$ 0.009 χ^2 /NDF:1853654.5/58

All: 77.607 $\pm$ 0.007 χ^2 /NDF: 3131378.1/111

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -169.719+/-132.483 χ^2 /NDF: 19.0/16

Left Out: -10.486+/-78.391 χ^2 /NDF:22.5/24

Right Out: -8.494+/-130.872 χ^2 /NDF: 14.2/17

Left In: -64.591+/-80.047 χ^2 /NDF:37.4/22

Left: -36.973+/-56.007 χ^2 /NDF: 60.2/47

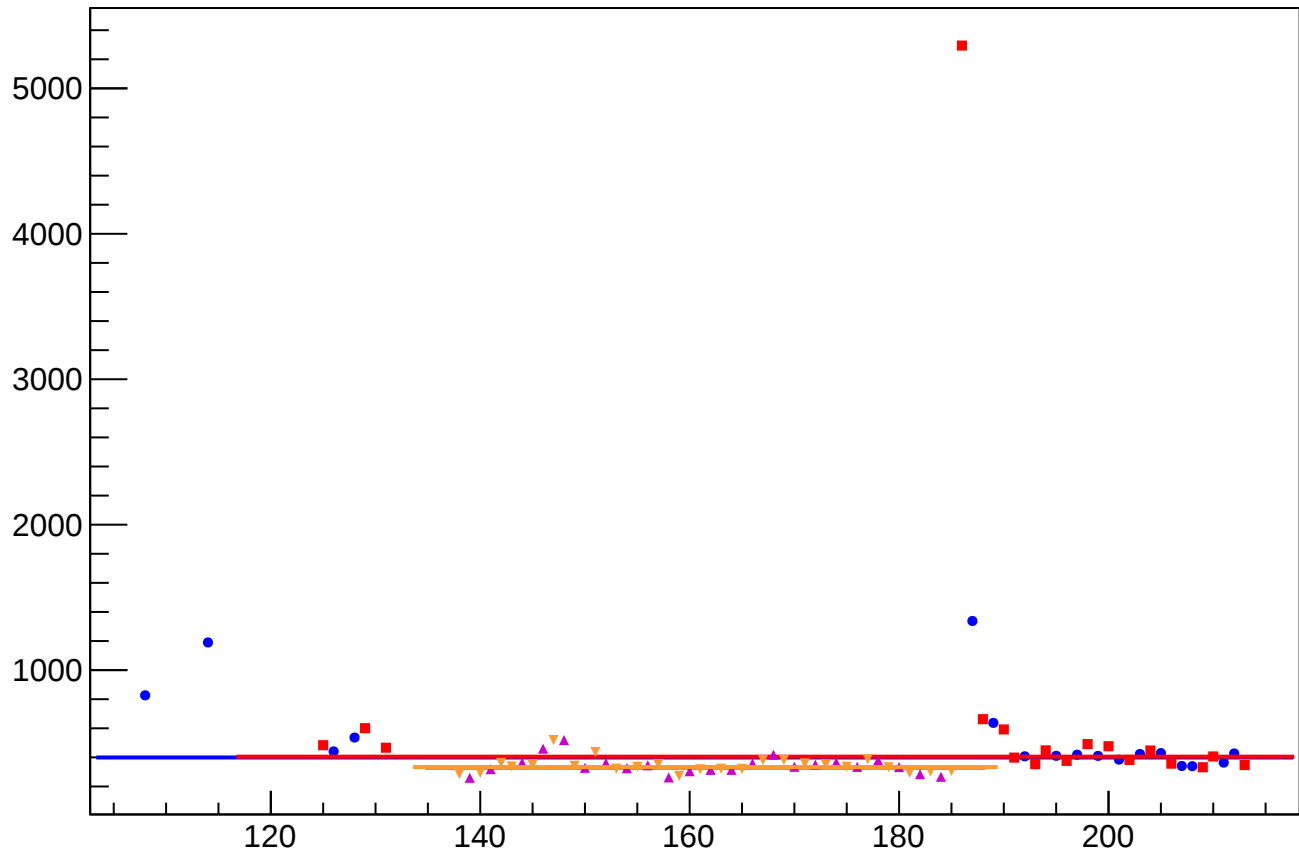
Right: -88.120+/-93.105 χ^2 /NDF: 33.9/34

In: -92.706+/-68.512 χ^2 /NDF:56.9/39

Out: -9.960+/-67.250 χ^2 /NDF:36.7/42

All: -50.564+/-47.993 χ^2 /NDF: 94.3/82

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 399.348+/-0.094 χ^2/NDF : 467473.8/16

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 405.051+/-0.093 χ^2/NDF : 1276432.4/17

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

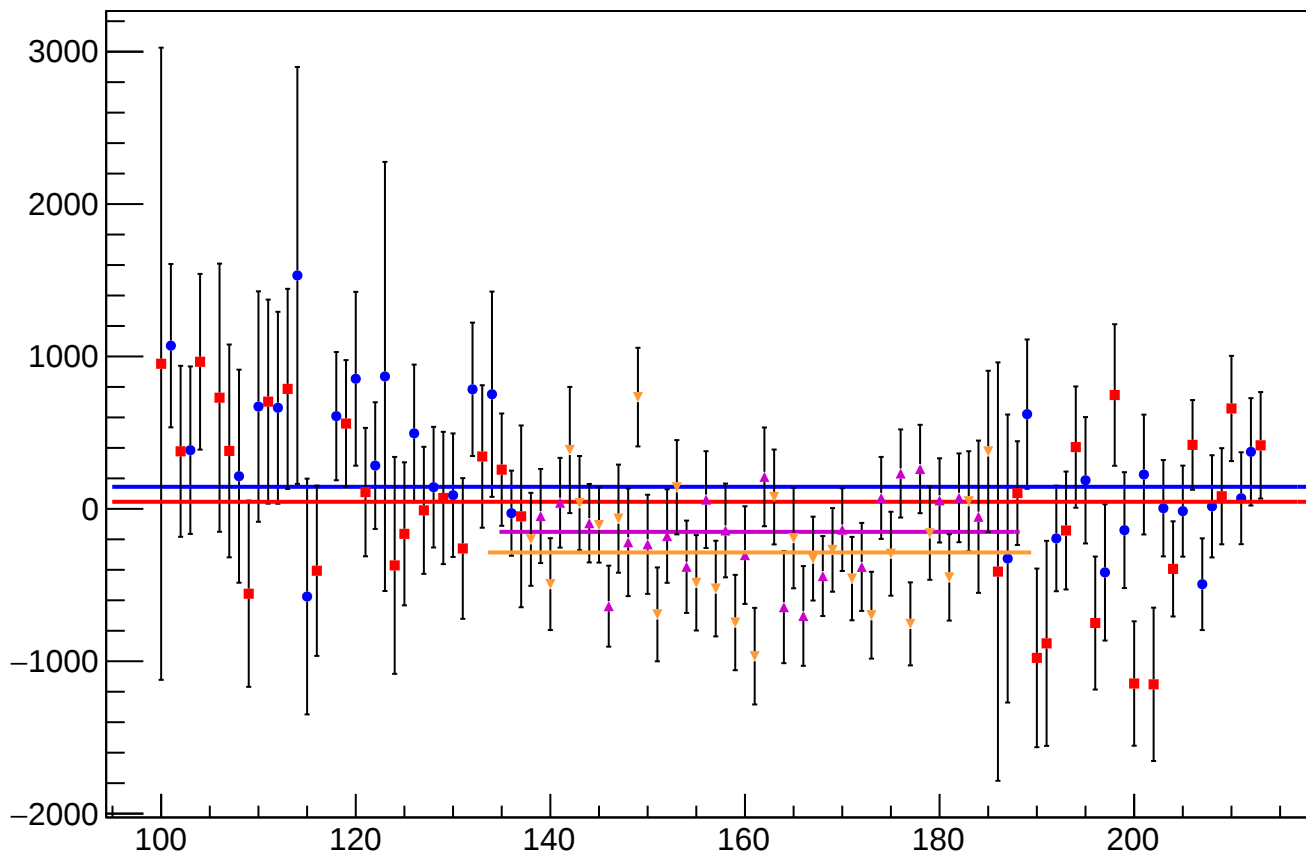
Right: 402.234+/-0.066 χ^2/NDF : 1745781.7/34

In: 348.535+/-0.048 χ^2/NDF : 1665056.6/39

Out: 352.197+/-0.048 χ^2/NDF : 2311803.0/42

All: 350.400+/-0.034 χ^2/NDF : 3979768.8/82

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 144.687 $\pm$ 77.615 χ^2 /NDF: 23.3/29

Left Out: -286.030 $\pm$ 61.095 χ^2 /NDF:36.6/24

Right Out: 46.389 $\pm$ 78.050 χ^2 /NDF: 44.9/33

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

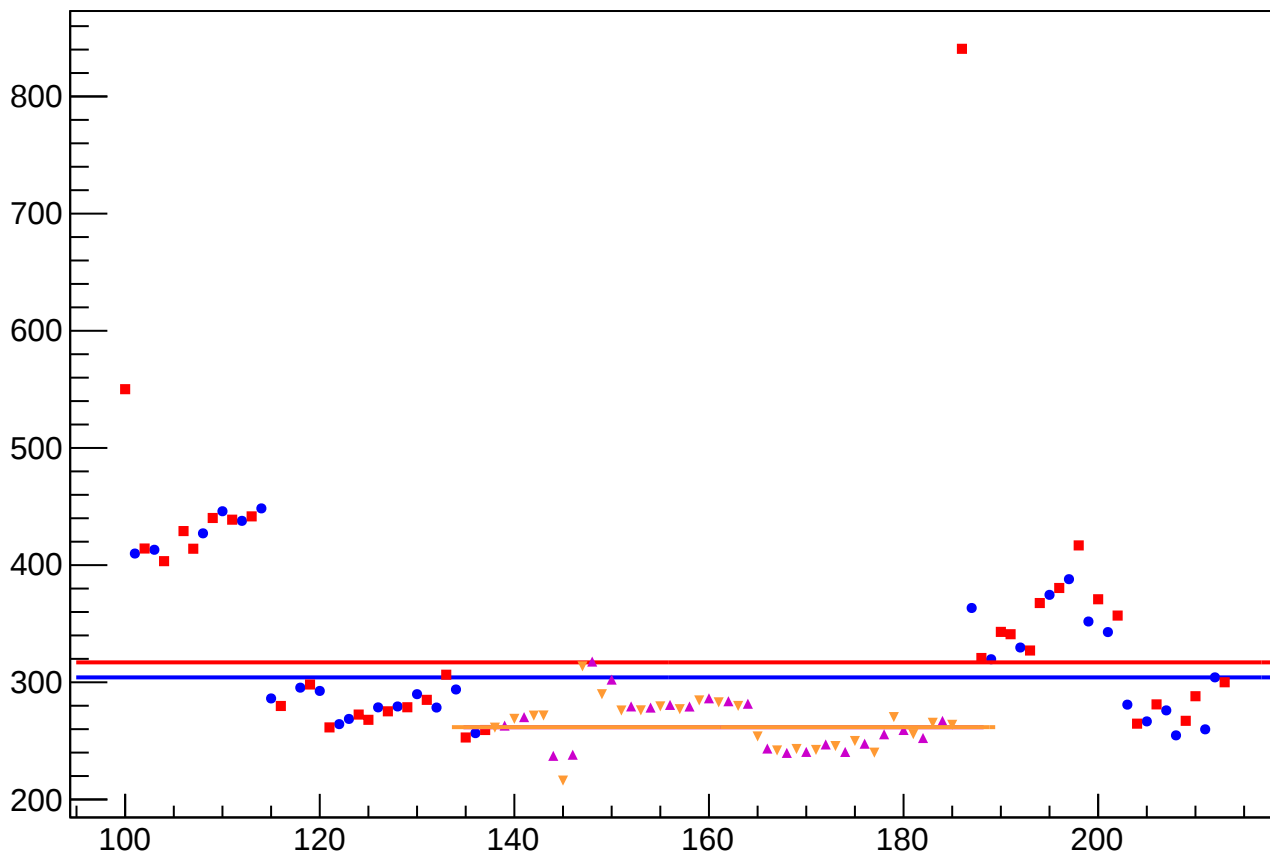
Right: 95.813 $\pm$ 55.035 χ^2 /NDF: 69.0/63

In: -33.922 $\pm$ 48.829 χ^2 /NDF:50.8/52

Out: -159.735 $\pm$ 48.109 χ^2 /NDF:92.7/58

All: -97.763 $\pm$ 34.270 χ^2 /NDF: 146.9/111

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 304.185+/-0.055 χ^2/NDF : 851904.0/29

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 317.005+/-0.055 χ^2/NDF : 1291888.0/33

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

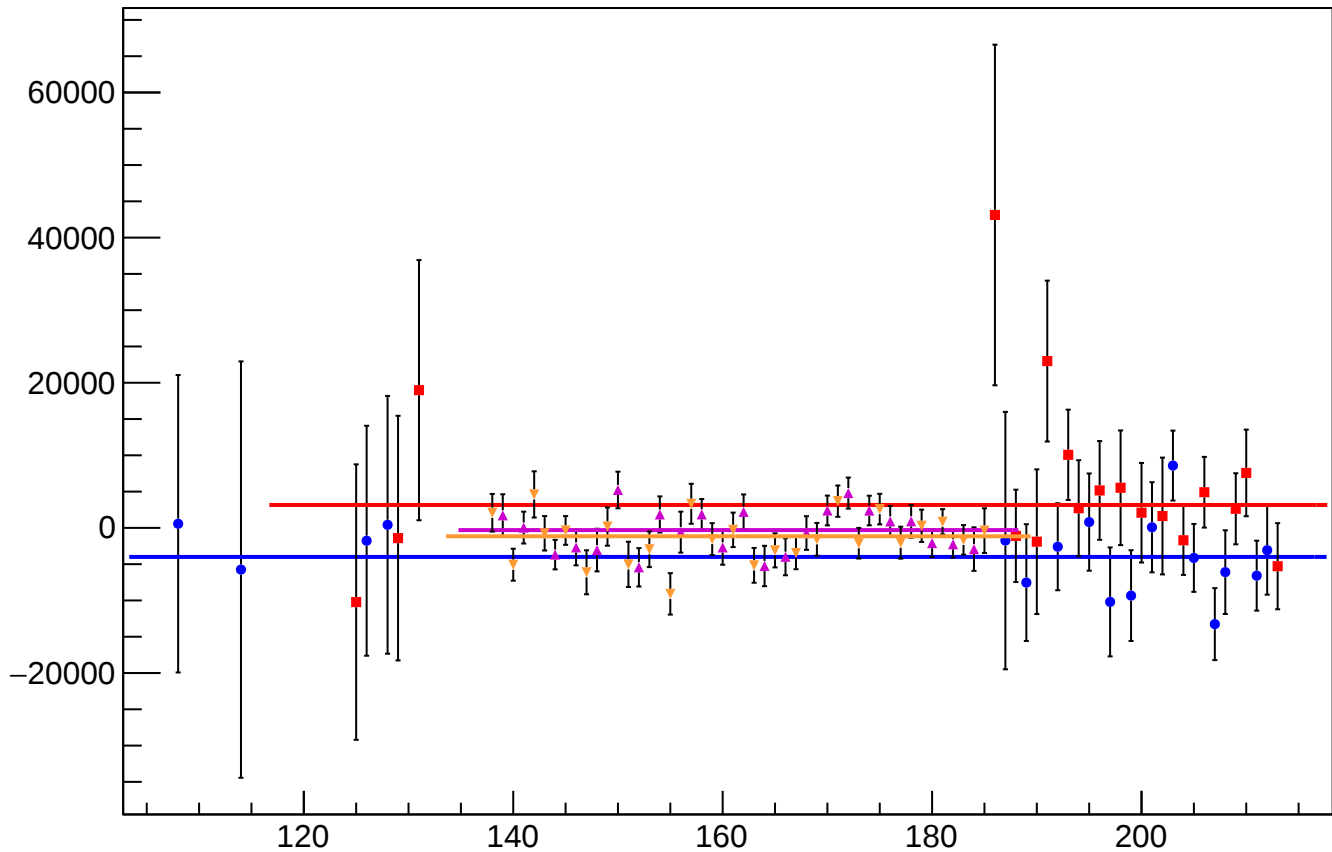
Right: 310.559+/-0.039 χ^2/NDF : 2170923.0/63

In: 278.477+/-0.035 χ^2/NDF : 1443296.6/52

Out: 282.725+/-0.034 χ^2/NDF : 2147283.4/58

All: 280.632+/-0.024 χ^2/NDF : 3598263.2/111

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -4000.974 ± 1626.690 $\chi^2/\text{NDF}: 13.5/16$

Left Out: -1161.443 ± 469.036 $\chi^2/\text{NDF}: 38.8/24$

Right Out: 3157.362 ± 1663.635 $\chi^2/\text{NDF}: 13.4/17$

Left In: -304.366 ± 483.778 $\chi^2/\text{NDF}: 35.4/22$

Left: -746.162 ± 336.750 $\chi^2/\text{NDF}: 75.7/47$

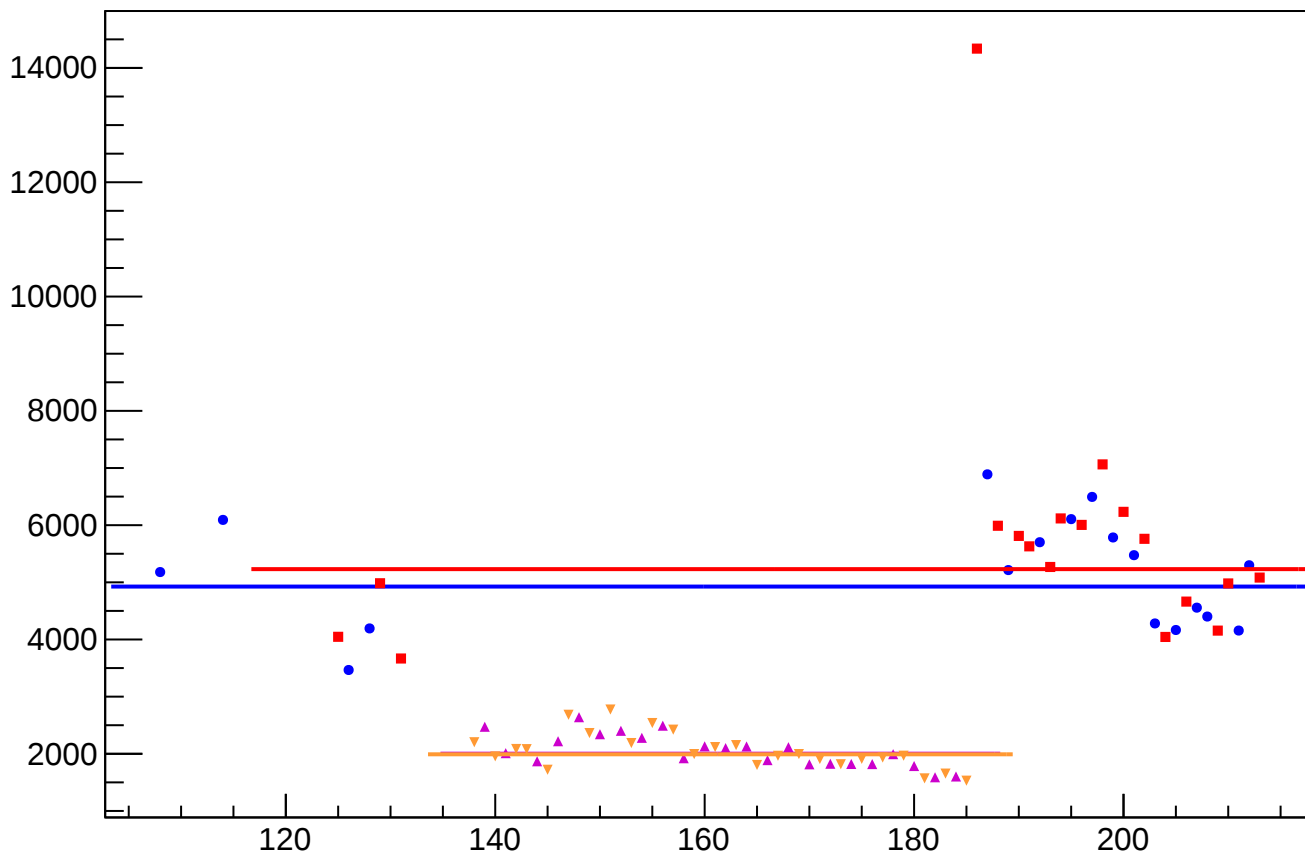
Right: -502.173 ± 1163.085 $\chi^2/\text{NDF}: 36.4/34$

In: -604.752 ± 463.706 $\chi^2/\text{NDF}: 53.6/39$

Out: -843.431 ± 451.438 $\chi^2/\text{NDF}: 58.4/42$

All: -727.291 ± 323.465 $\chi^2/\text{NDF}: 112.1/82$

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4925.928+/-1.150 χ^2/NDF : 461958.7/16

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 5231.026+/-1.176 χ^2/NDF : 835433.4/17

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

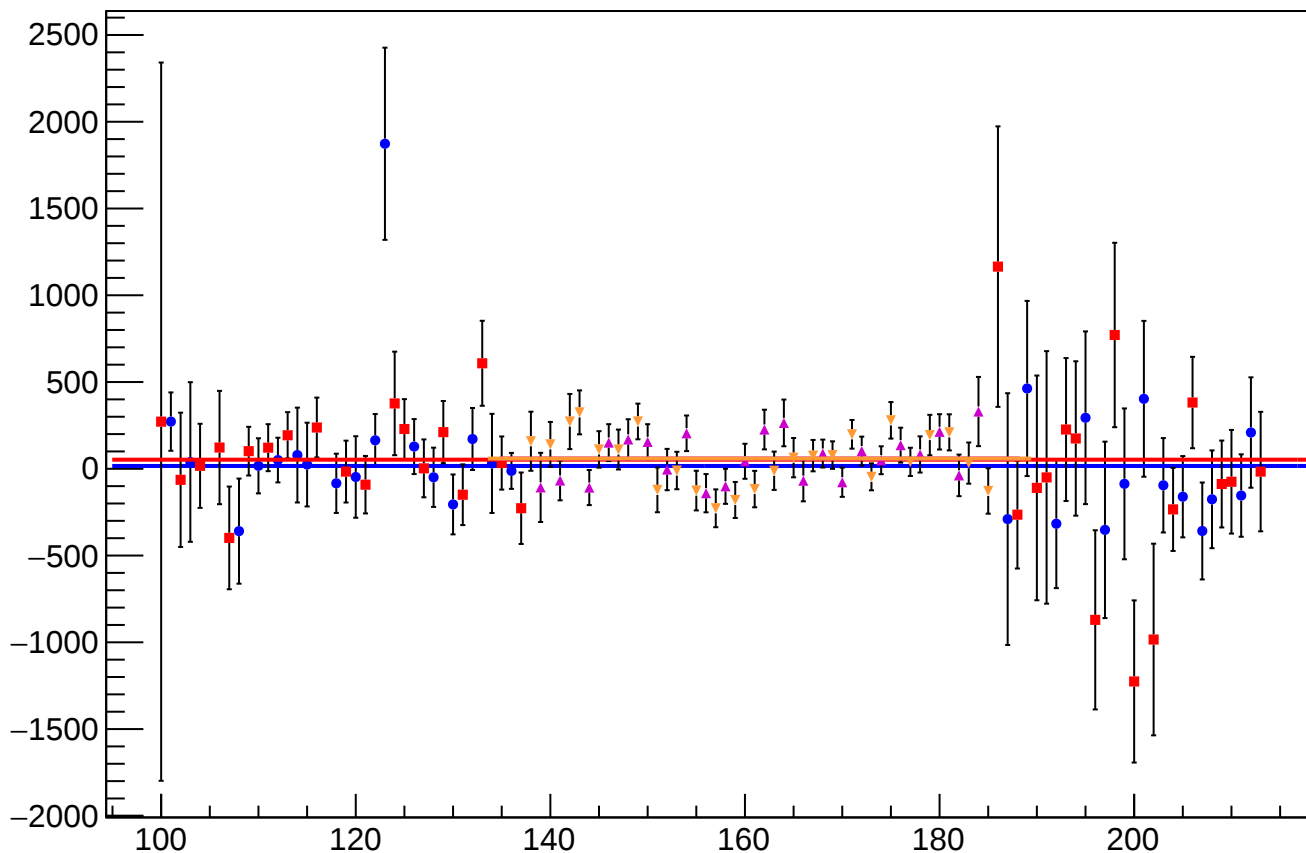
Right: 5075.052+/-0.822 χ^2/NDF : 1331780.2/34

In: 2239.739+/-0.328 χ^2/NDF : 6984002.3/39

Out: 2229.674+/-0.319 χ^2/NDF : 8588671.4/42

All: 2234.571+/-0.229 χ^2/NDF : 15573157.6/80

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 16.224 $\pm$ 39.489 χ^2 /NDF: 27.0/29

Left Out: 58.983 $\pm$ 21.137 χ^2 /NDF: 46.9/24

Right Out: 52.460 $\pm$ 39.367 χ^2 /NDF: 40.3/33

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

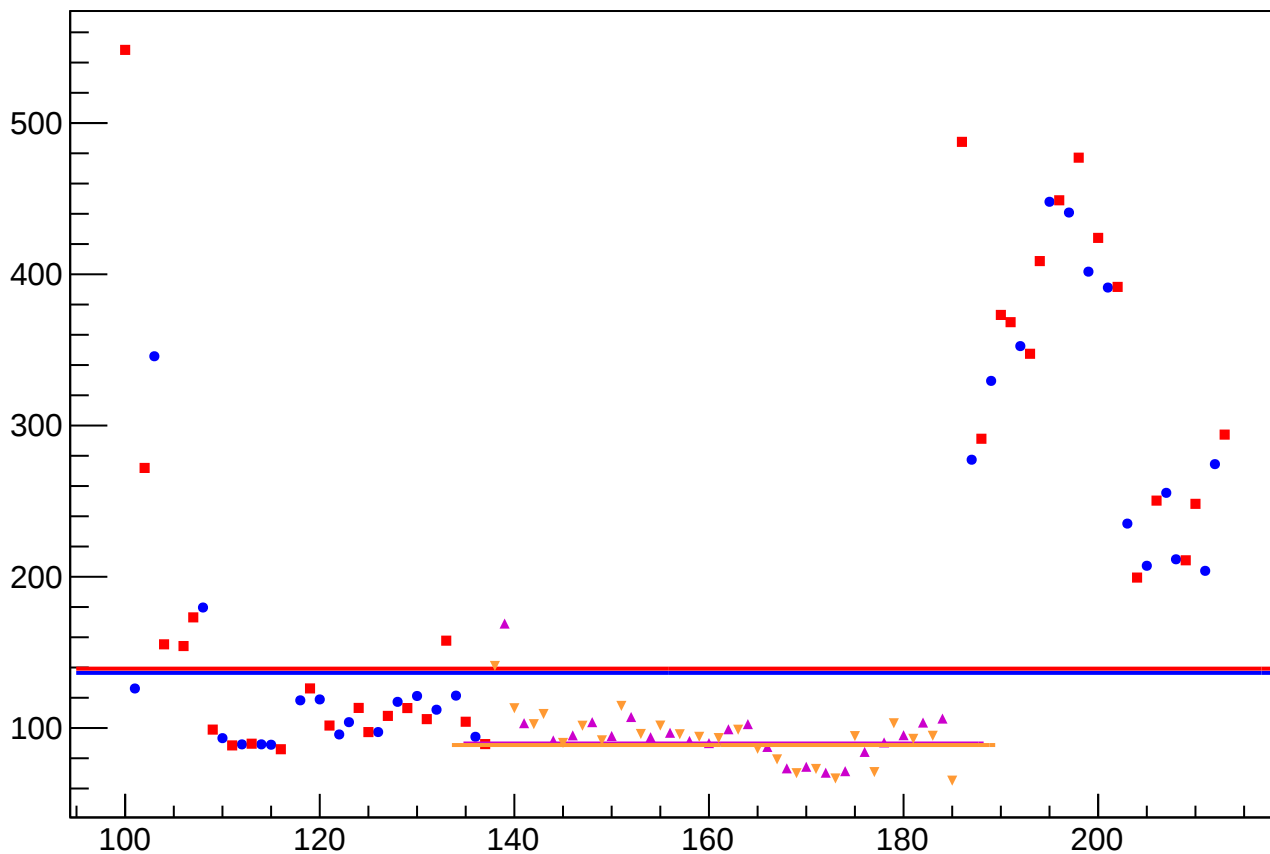
Right: 34.398 $\pm$ 27.880 χ^2 /NDF: 67.8/63

In: 49.103 $\pm$ 19.166 χ^2 /NDF: 57.3/52

Out: 57.523 $\pm$ 18.623 χ^2 /NDF: 87.3/58

All: 53.434 $\pm$ 13.356 χ^2 /NDF: 144.7/111

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 136.464 $\pm$ 0.028 χ^2 /NDF: 7165920.1/29

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 139.259 $\pm$ 0.028 χ^2 /NDF: 8494304.9/33

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

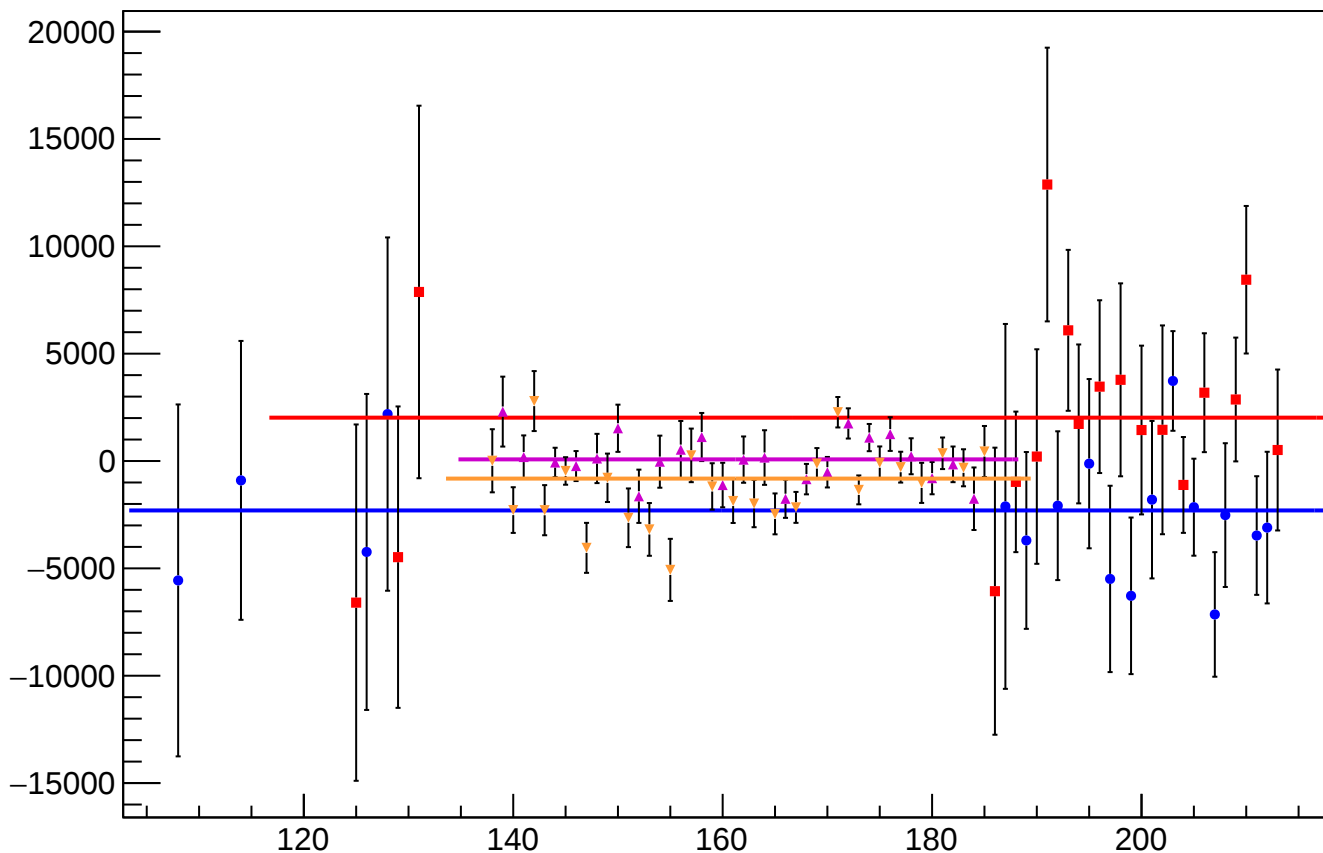
Right: 137.865 $\pm$ 0.020 χ^2 /NDF: 15665250.2/63

In: 100.766 $\pm$ 0.014 χ^2 /NDF:10189769.5/52

Out: 100.051 $\pm$ 0.013 χ^2 /NDF:12129326.8/58

All: 100.398 $\pm$ 0.009 χ^2 /NDF: 22320528.0/11

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2302.137 ± 878.504 $\chi^2/\text{NDF}: 12.5/16$

Left Out: -818.877 ± 184.464 $\chi^2/\text{NDF}: 68.2/24$

Right Out: 2019.540 ± 913.490 $\chi^2/\text{NDF}: 15.1/17$

Left In: 76.204 ± 186.651 $\chi^2/\text{NDF}: 28.3/22$

Left: -376.610 ± 131.202 $\chi^2/\text{NDF}: 108.1/47$

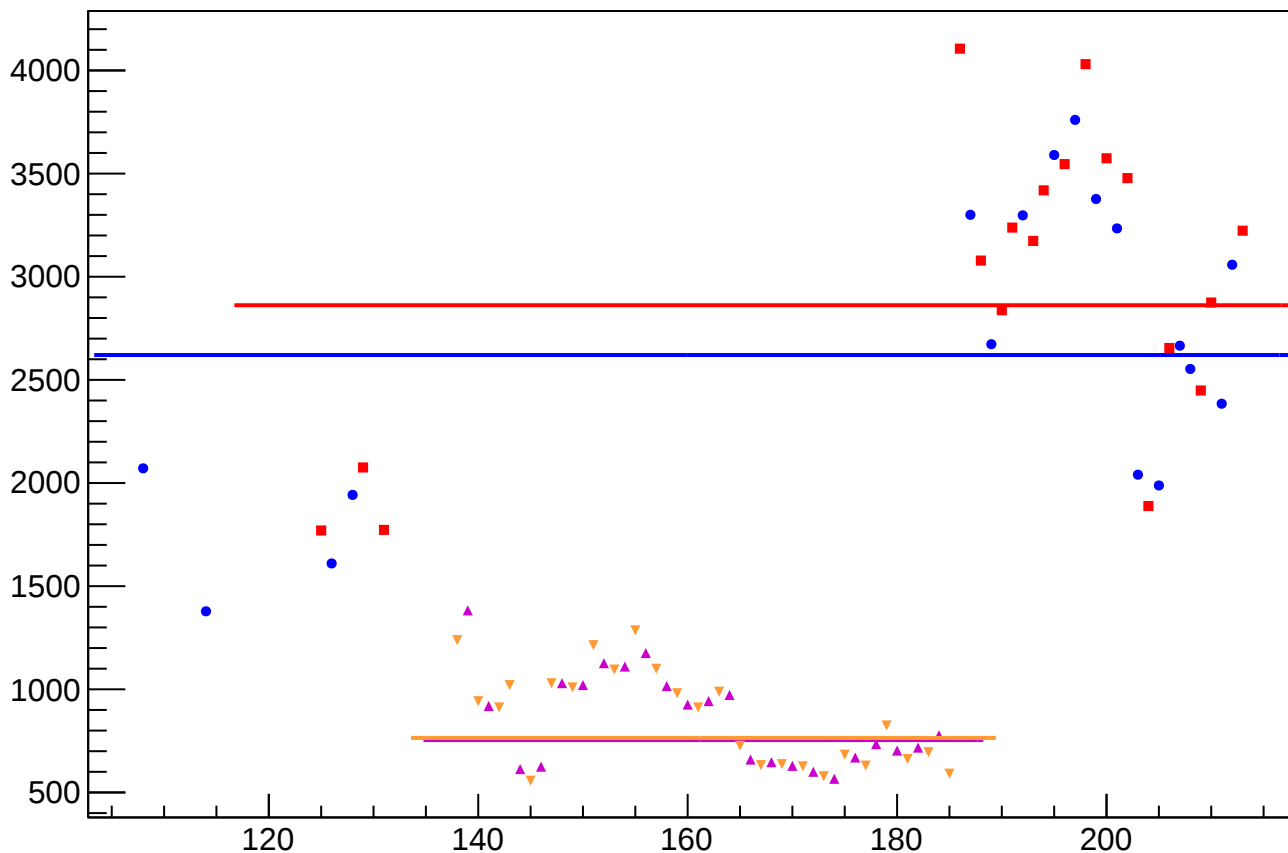
Right: -225.641 ± 633.203 $\chi^2/\text{NDF}: 39.3/34$

In: -26.520 ± 182.575 $\chi^2/\text{NDF}: 47.8/39$

Out: -707.669 ± 180.814 $\chi^2/\text{NDF}: 92.6/42$

All: -370.396 ± 128.473 $\chi^2/\text{NDF}: 147.4/82$

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2620.481+/-0.621 χ^2/NDF : 952222.8/16

Left Out: 764.280+/-0.130 χ^2/NDF : 2315985.8/24

Right Out: 2861.822+/-0.646 χ^2/NDF : 977557.9/17

Left In: 754.027+/-0.132 χ^2/NDF : 2013386.7/22

Left: 759.214+/-0.093 χ^2/NDF : 4332425.4/47

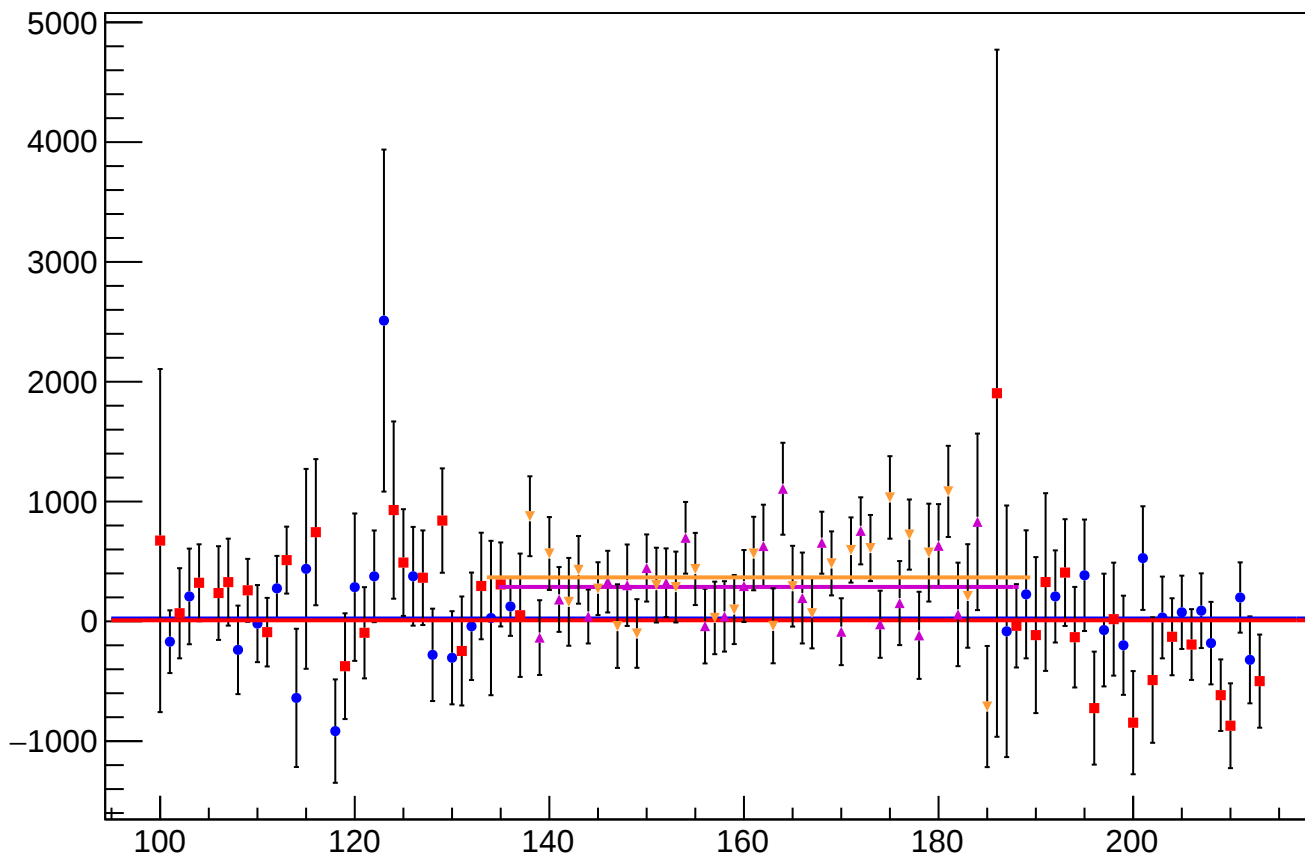
Right: 2736.441+/-0.448 χ^2/NDF : 2002305.3/34

In: 834.641+/-0.129 χ^2/NDF : 11603396.8/39

Out: 846.460+/-0.128 χ^2/NDF : 13425343.5/42

All: 840.608+/-0.091 χ^2/NDF : 25032971.3/82

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 23.733+/-70.154 χ^2/NDF : 19.1/29

Left Out: 367.028+/-61.943 χ^2/NDF :28.2/24

Right Out: 8.868+/-68.324 χ^2/NDF : 39.3/33

Left In: 287.246+/-64.141 χ^2/NDF :23.9/22

Left: 328.527+/-44.557 χ^2/NDF : 52.9/47

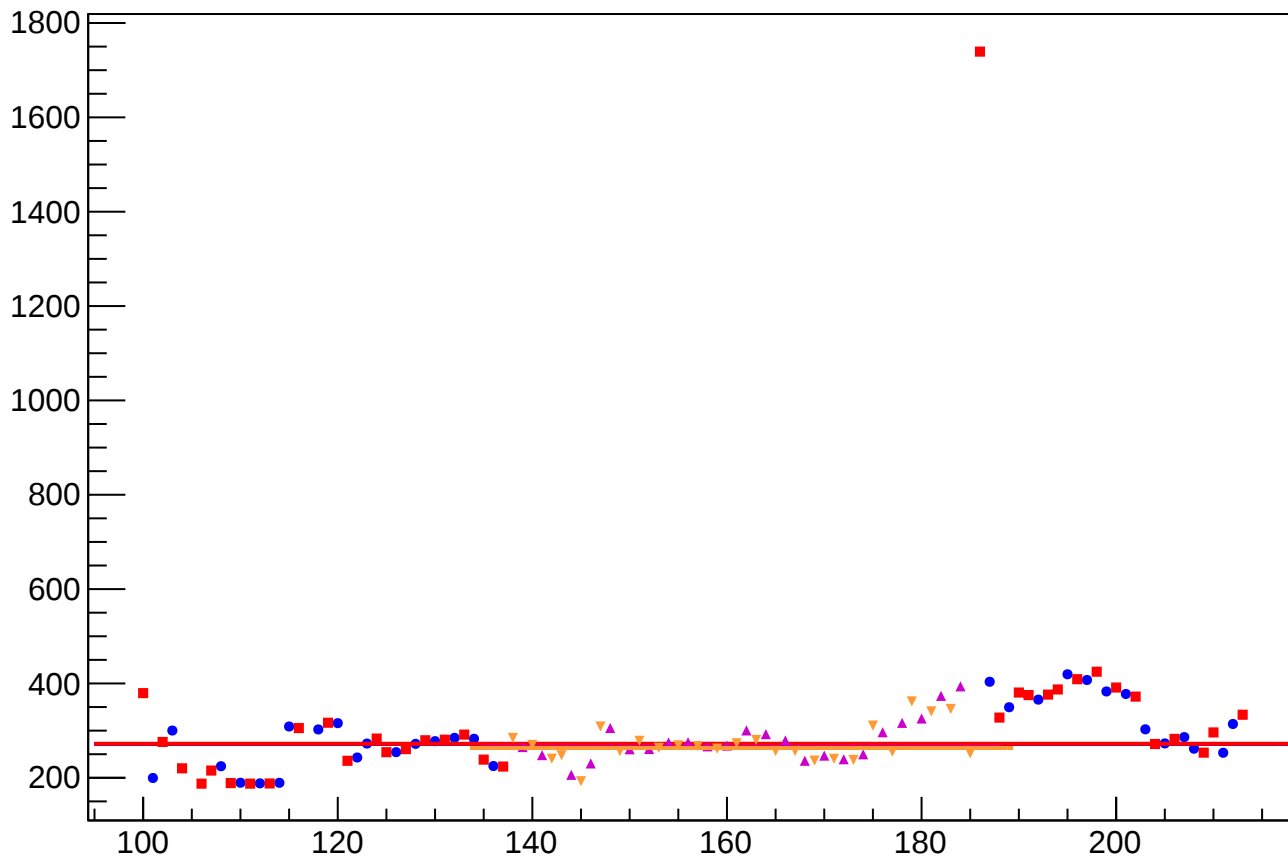
Right: 16.104+/-48.947 χ^2/NDF : 58.4/63

In: 167.267+/-47.338 χ^2/NDF :50.7/52

Out: 205.449+/-45.891 χ^2/NDF :82.6/58

All: 186.950+/-32.949 χ^2/NDF : 133.6/111

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 271.653+/-0.050 χ^2/NDF : 1554318.0/29

Left Out: 263.103+/-0.044 χ^2/NDF : 642226.0/24

Right Out: 272.132+/-0.048 χ^2/NDF : 2457373.7/33

Left In: 264.923+/-0.045 χ^2/NDF : 609024.7/22

Left: 263.981+/-0.032 χ^2/NDF : 1252084.1/47

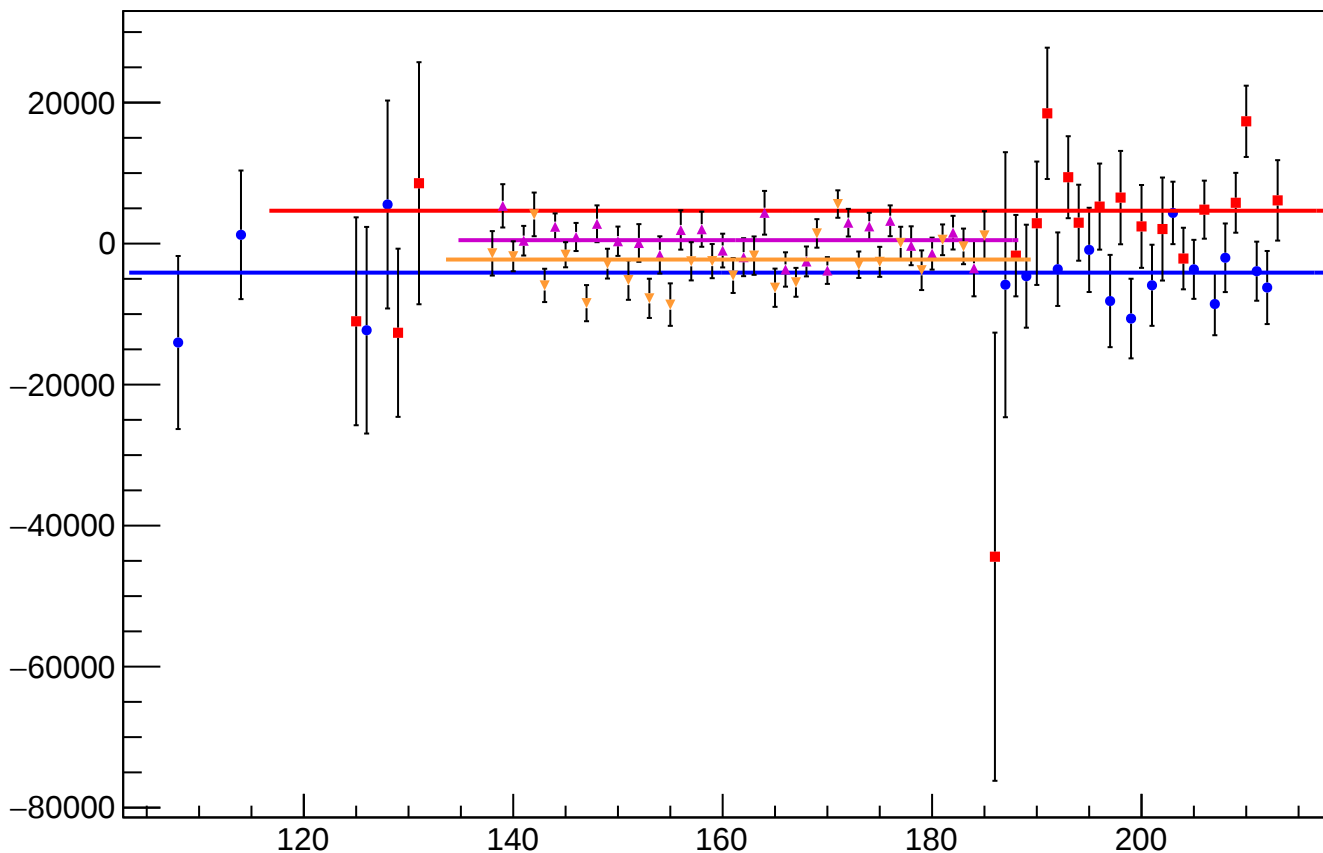
Right: 271.899+/-0.035 χ^2/NDF : 4011739.8/63

In: 267.987+/-0.033 χ^2/NDF : 2173366.7/52

Out: 267.176+/-0.032 χ^2/NDF : 3118772.5/58

All: 267.569+/-0.023 χ^2/NDF : 5292441.6/111

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -4119.007 ± 1421.671 χ^2/NDF : 8.9/16

Left Out: -2260.196 ± 475.336 χ^2/NDF : 52.3/24

Right Out: 4661.303 ± 1460.518 χ^2/NDF : 19.1/17

Left In: 485.590 ± 487.465 χ^2/NDF : 24.8/22

Left: -921.890 ± 340.321 χ^2/NDF : 93.4/47

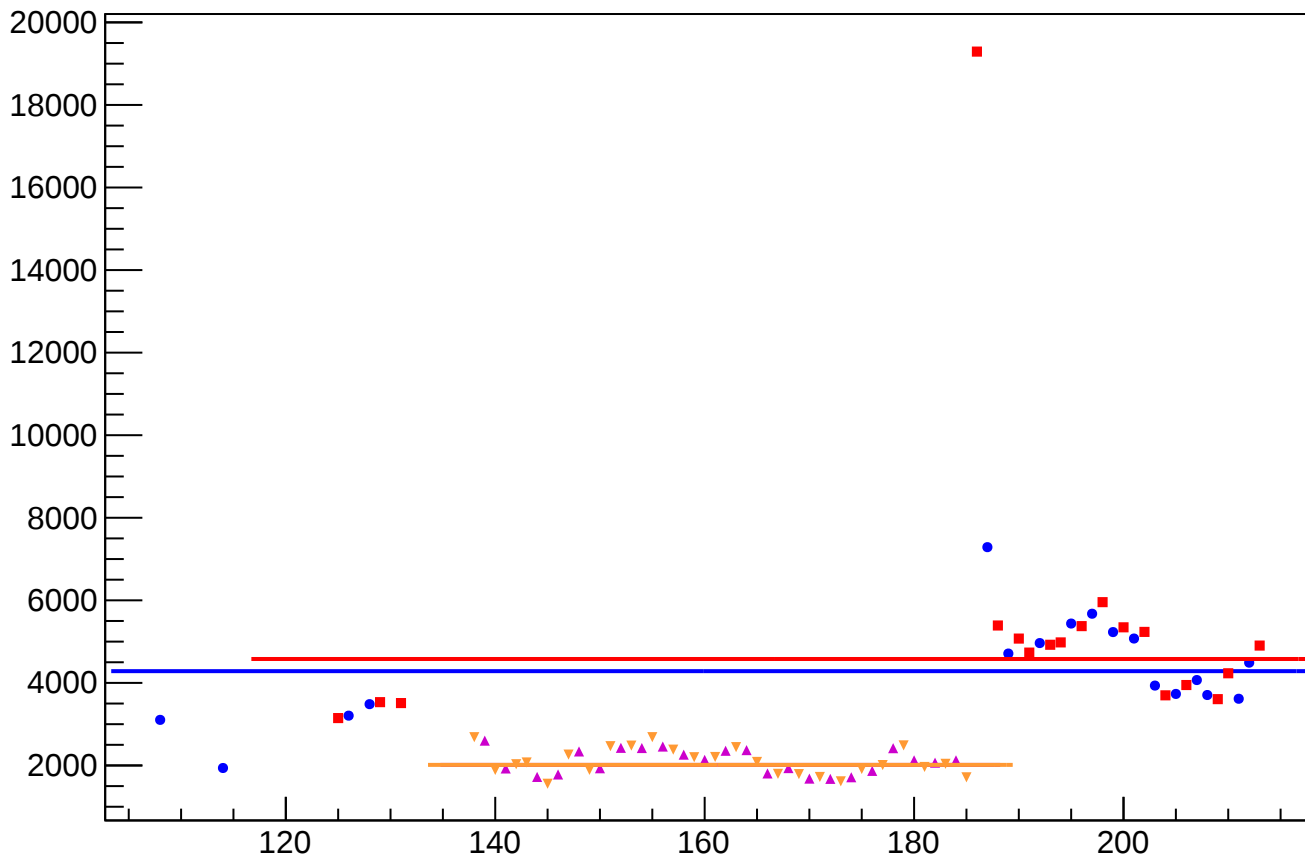
Right: 152.825 ± 1018.730 χ^2/NDF : 46.6/34

In: 1.187 ± 461.112 χ^2/NDF : 43.0/39

Out: -1597.274 ± 452.000 χ^2/NDF : 91.7/42

All: -813.995 ± 322.786 χ^2/NDF : 140.9/82

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4284.487+/-1.005 χ^2/NDF : 652580.2/16

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4579.156+/-1.033 χ^2/NDF : 954937.3/17

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

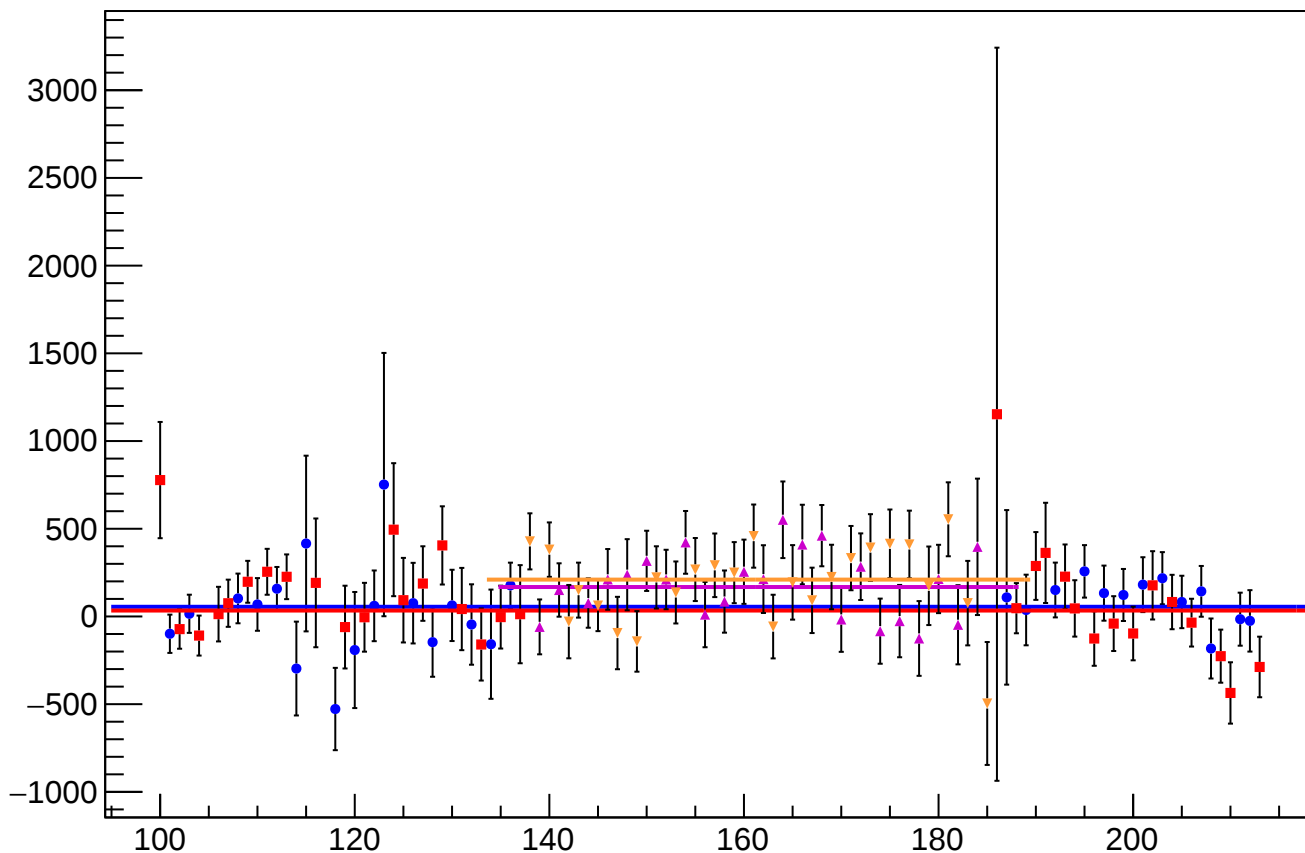
Right: 4427.851+/-0.720 χ^2/NDF : 1649320.0/34

In: 2252.180+/-0.326 χ^2/NDF : 5882224.1/39

Out: 2259.779+/-0.320 χ^2/NDF : 7368654.0/42

All: 2256.055+/-0.228 χ^2/NDF : 13251155.1/80

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 55.185+/-30.908 χ^2/NDF : 22.7/29

Left Out: 210.086+/-37.093 χ^2/NDF : 27.5/24

Right Out: 33.746+/-29.239 χ^2/NDF : 41.8/33

Left In: 167.822+/-38.718 χ^2/NDF : 21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

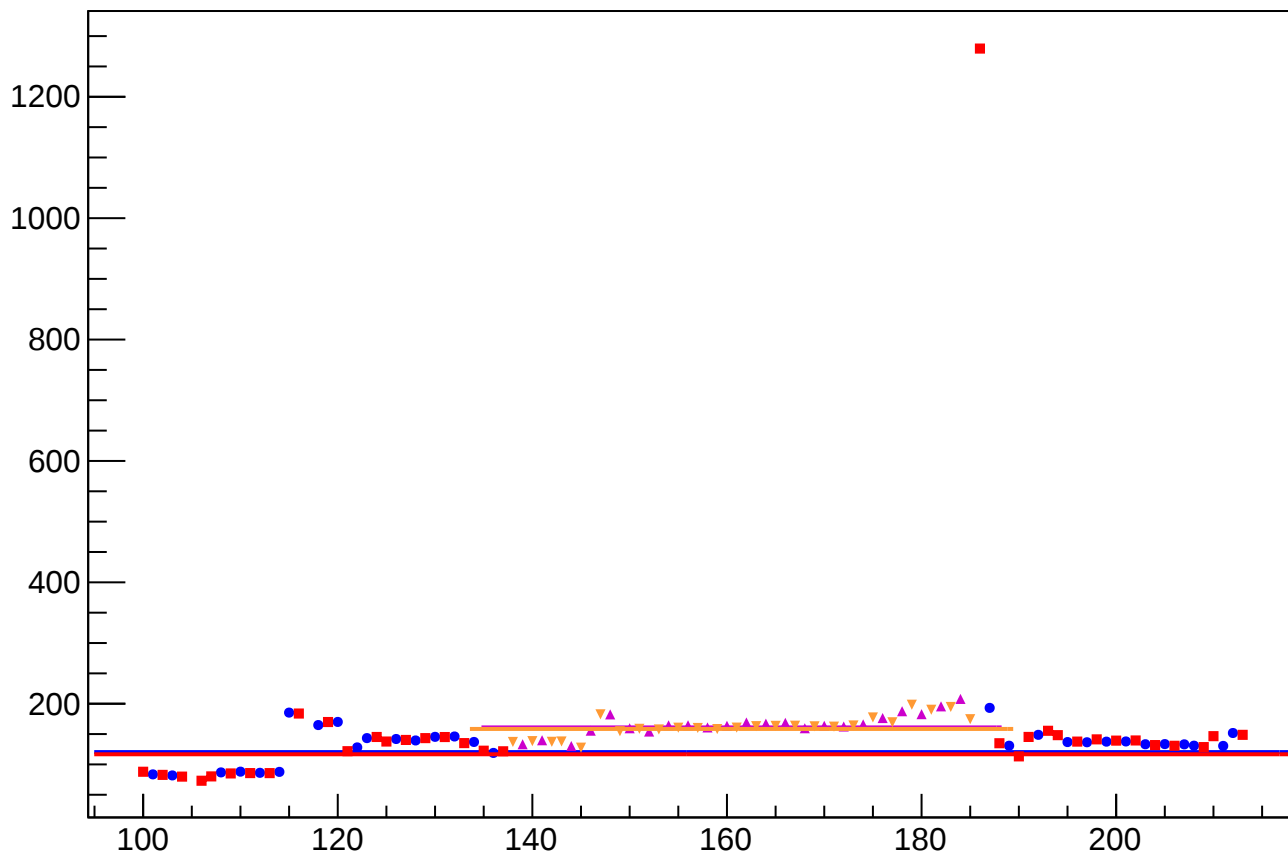
Right: 43.871+/-21.241 χ^2/NDF : 64.7/63

In: 99.026+/-24.155 χ^2/NDF : 49.0/52

Out: 101.325+/-22.963 χ^2/NDF : 83.3/58

All: 100.234+/-16.643 χ^2/NDF : 132.2/111

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 120.269+/-0.022 χ^2/NDF : 1455173.0/29

Left Out: 158.440+/-0.026 χ^2/NDF : 434300.9/24

Right Out: 116.705+/-0.021 χ^2/NDF : 2553871.8/33

Left In: 160.947+/-0.027 χ^2/NDF : 379713.4/22

Left: 159.640+/-0.019 χ^2/NDF : 818385.9/47

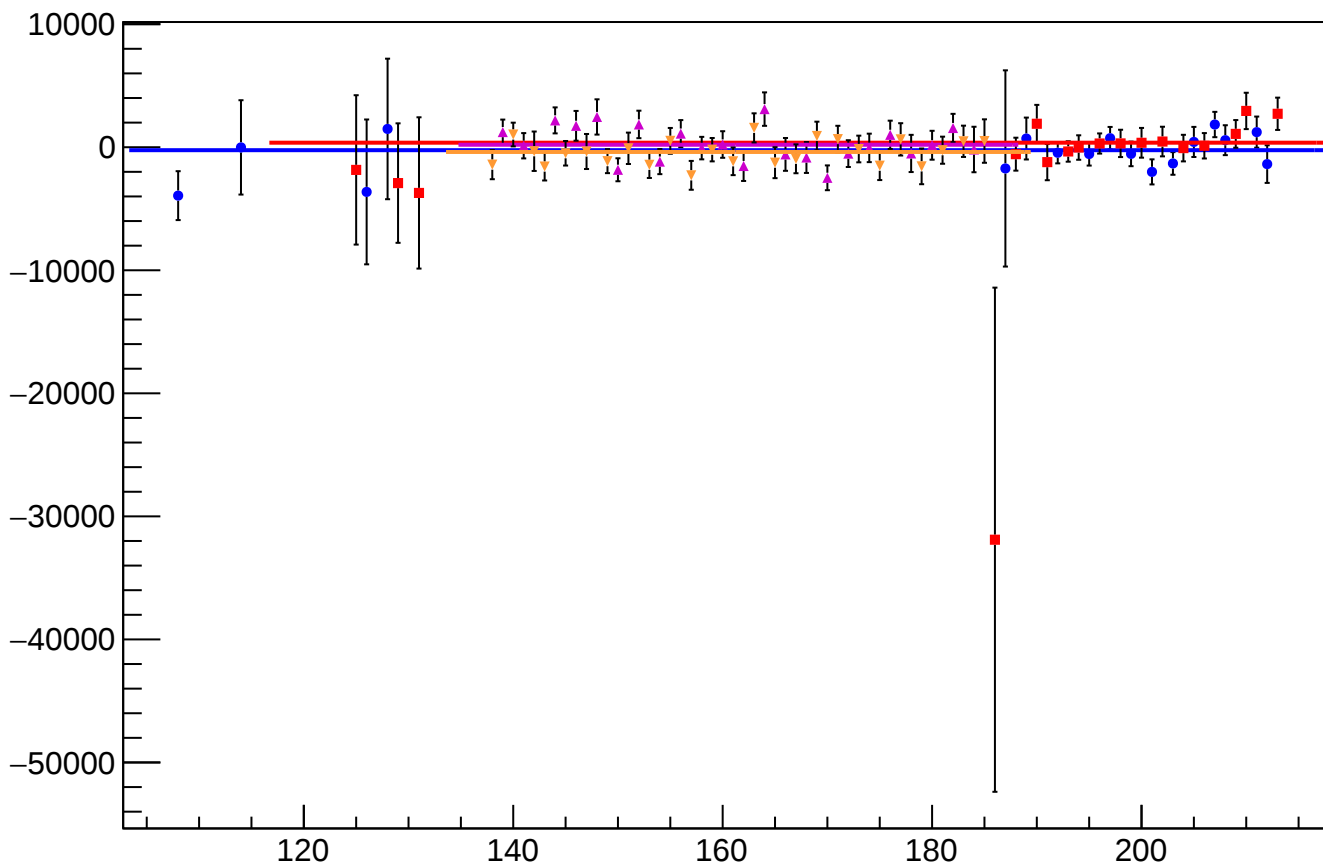
Right: 118.388+/-0.015 χ^2/NDF : 4023074.1/63

In: 136.102+/-0.017 χ^2/NDF : 3183278.2/52

Out: 132.699+/-0.016 χ^2/NDF : 4549720.2/58

All: 134.315+/-0.012 χ^2/NDF : 7753841.8/111

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -240.477+/-302.742 χ^2/NDF : 16.7/16

Left Out: -385.018+/-231.833 χ^2/NDF : 18.1/24

Right Out: 368.797+/-297.398 χ^2/NDF : 14.0/17

Left In: 202.234+/-237.460 χ^2/NDF : 35.5/22

Left: -98.432+/-165.884 χ^2/NDF : 56.7/47

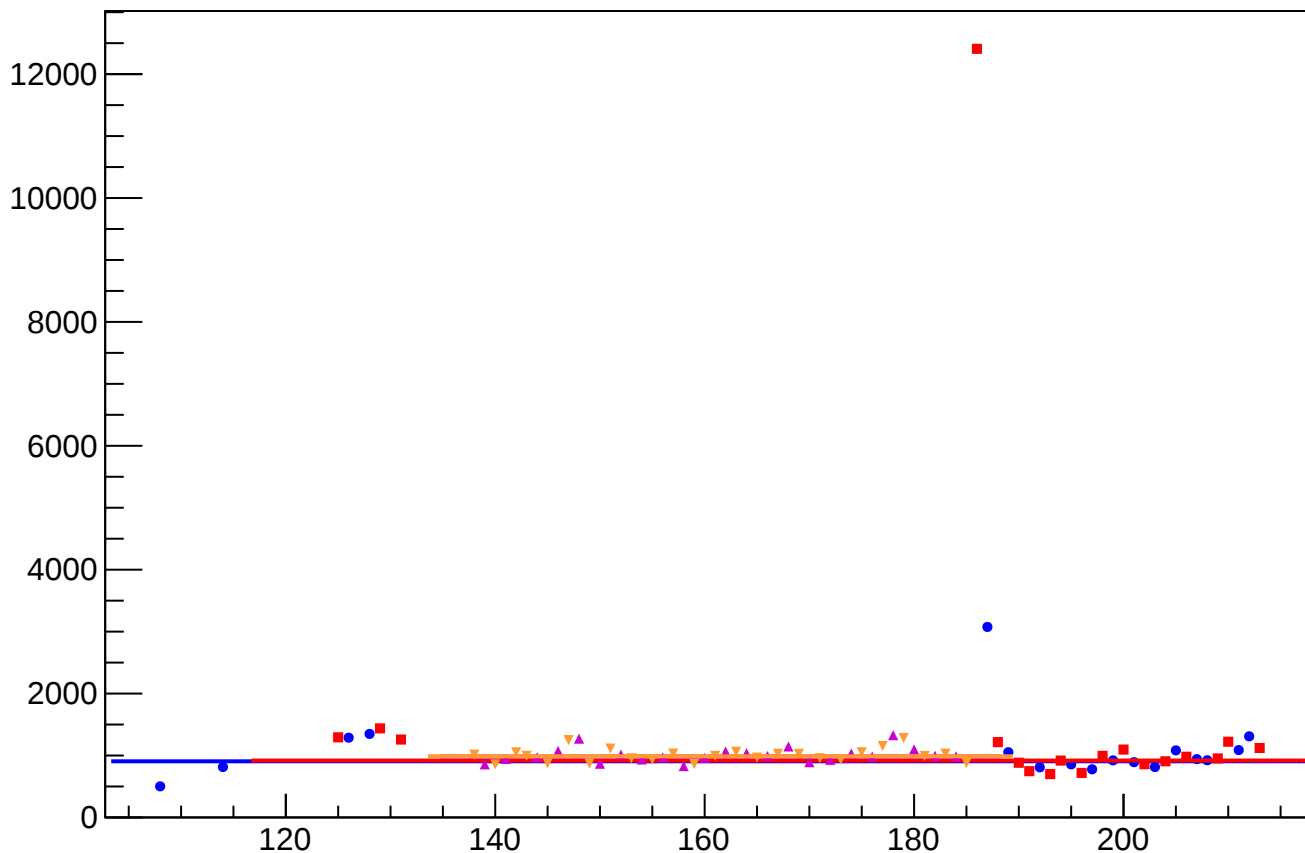
Right: 69.586+/-212.156 χ^2/NDF : 32.8/34

In: 33.609+/-186.841 χ^2/NDF : 53.5/39

Out: -100.086+/-182.842 χ^2/NDF : 36.0/42

All: -34.685+/-130.680 χ^2/NDF : 89.8/82

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 906.467 $\pm$ 0.214 χ^2 /NDF: 583725.9/16

Left Out: 987.869 $\pm$ 0.164 χ^2 /NDF: 376958.5/24

Right Out: 918.619 $\pm$ 0.210 χ^2 /NDF: 1248760.4/17

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

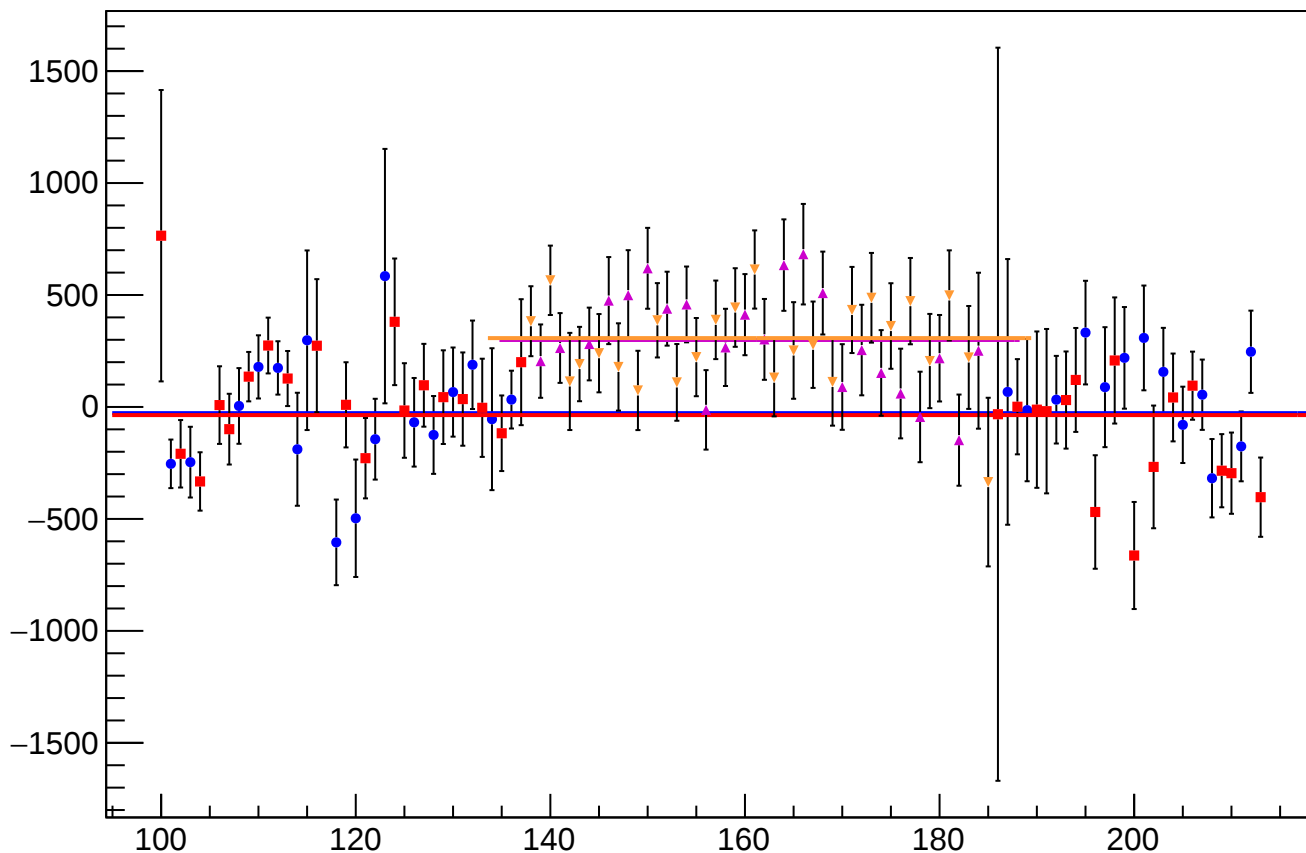
Right: 912.651 $\pm$ 0.150 χ^2 /NDF: 1834125.9/34

In: 954.402 $\pm$ 0.132 χ^2 /NDF: 1080979.8/39

Out: 961.693 $\pm$ 0.129 χ^2 /NDF: 1693171.5/42

All: 958.127 $\pm$ 0.092 χ^2 /NDF: 2775706.9/82

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -27.629 ± 33.876 $\chi^2/\text{NDF}: 41.4/29$

Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$

Right Out: -36.304 ± 32.516 $\chi^2/\text{NDF}: 46.2/33$

Left In: 299.192 ± 39.009 $\chi^2/\text{NDF}: 28.5/22$

Left: 303.528 ± 26.951 $\chi^2/\text{NDF}: 49.3/47$

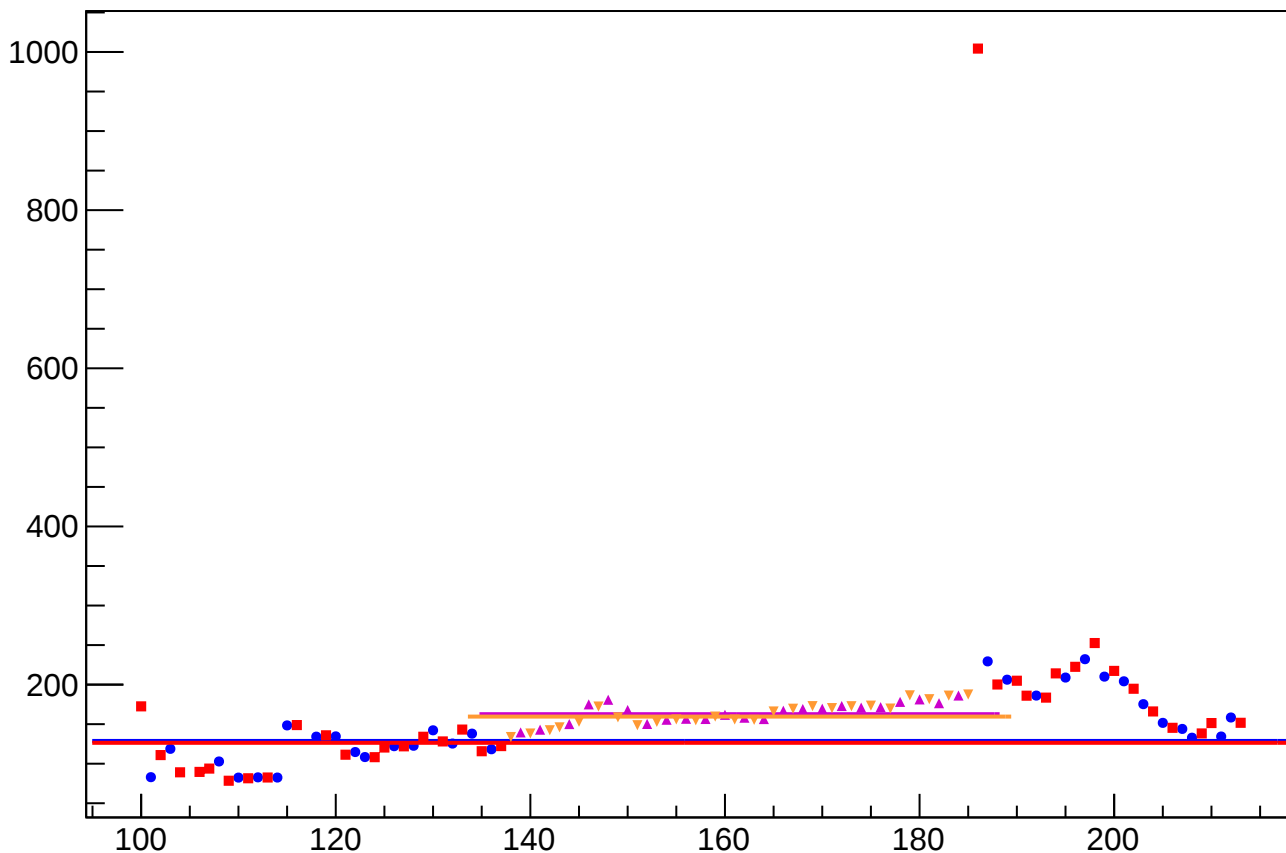
Right: -32.144 ± 23.458 $\chi^2/\text{NDF}: 87.7/63$

In: 112.878 ± 25.578 $\chi^2/\text{NDF}: 109.9/52$

Out: 112.247 ± 24.504 $\chi^2/\text{NDF}: 115.2/58$

All: 112.549 ± 17.694 $\chi^2/\text{NDF}: 225.2/111$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 128.774+/-0.024 χ^2/NDF : 2618744.6/29

Left Out: 159.568+/-0.026 χ^2/NDF : 287744.2/24

Right Out: 126.419+/-0.023 χ^2/NDF : 4025252.3/33

Left In: 162.606+/-0.028 χ^2/NDF : 199542.3/22

Left: 161.019+/-0.019 χ^2/NDF : 493626.9/47

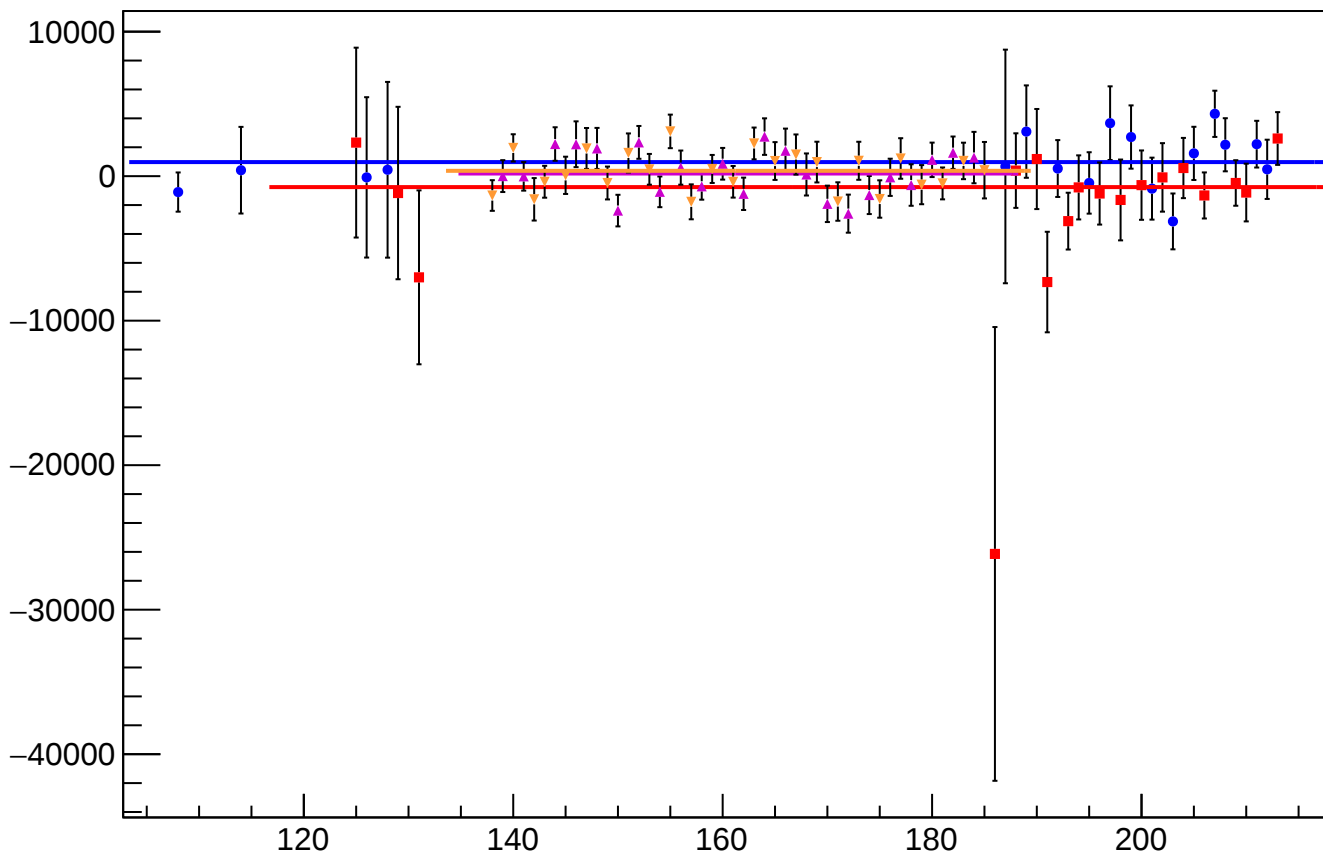
Right: 127.548+/-0.017 χ^2/NDF : 6649029.8/63

In: 143.319+/-0.018 χ^2/NDF : 3675906.0/52

Out: 140.743+/-0.017 χ^2/NDF : 5211178.6/58

All: 141.976+/-0.013 χ^2/NDF : 8897668.5/111

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 973.947 $\pm$ 515.831 χ^2 /NDF: 15.9/16

Left Out: 370.001 $\pm$ 243.521 χ^2 /NDF:30.5/24

Right Out: -756.880 $\pm$ 564.742 χ^2 /NDF: 13.7/17

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

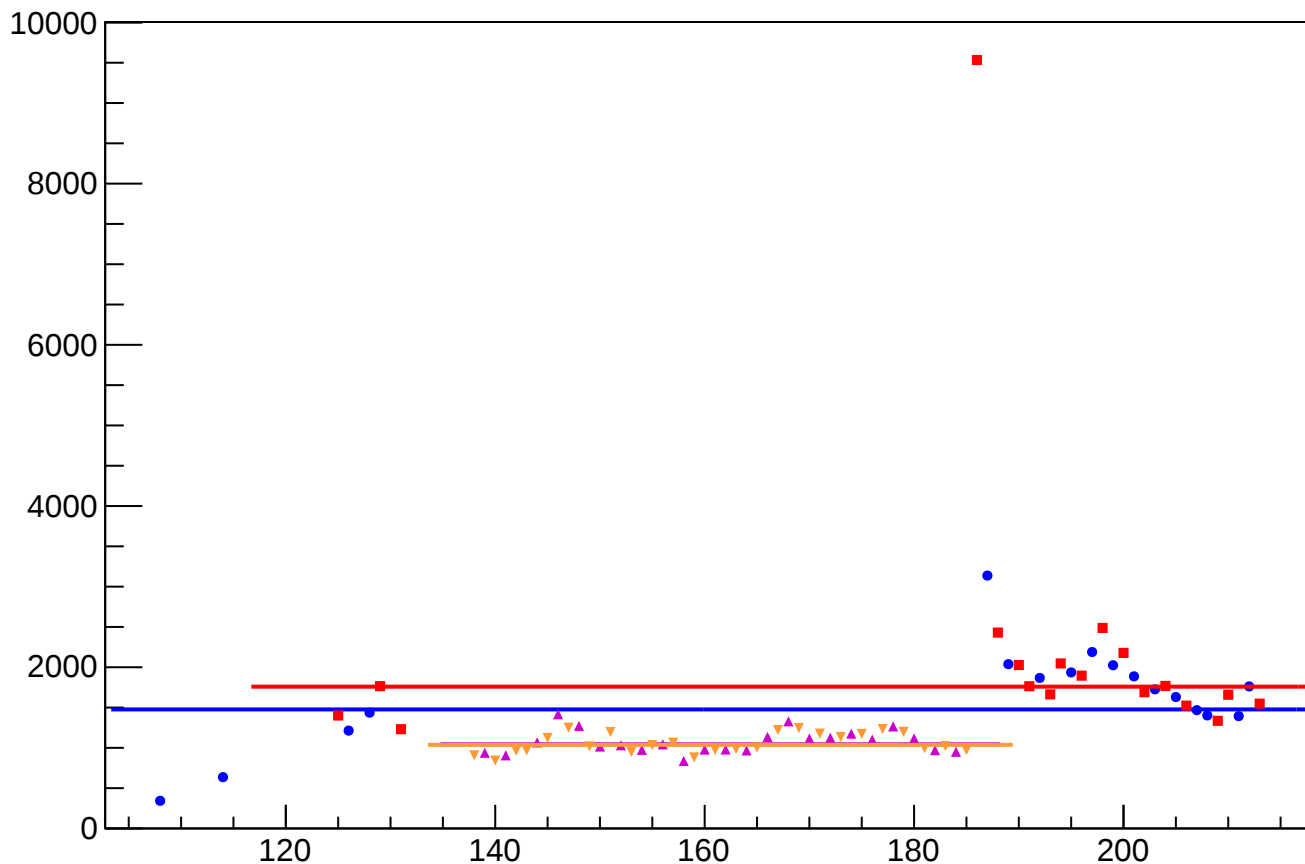
Right: 186.716 $\pm$ 380.868 χ^2 /NDF: 34.7/34

In: 335.737 $\pm$ 226.612 χ^2 /NDF:54.3/39

Out: 193.321 $\pm$ 223.617 χ^2 /NDF:47.5/42

All: 263.581 $\pm$ 159.169 χ^2 /NDF: 102.0/82

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1476.737 $\pm$ 0.365 χ^2 /NDF: 2326359.1/16

Left Out: 1037.689 $\pm$ 0.172 χ^2 /NDF: 494981.4/24

Right Out: 1759.145 $\pm$ 0.399 χ^2 /NDF: 1123831.4/17

Left In: 1044.746 $\pm$ 0.178 χ^2 /NDF: 543315.5/22

Left: 1041.093 $\pm$ 0.124 χ^2 /NDF: 1039107.0/47

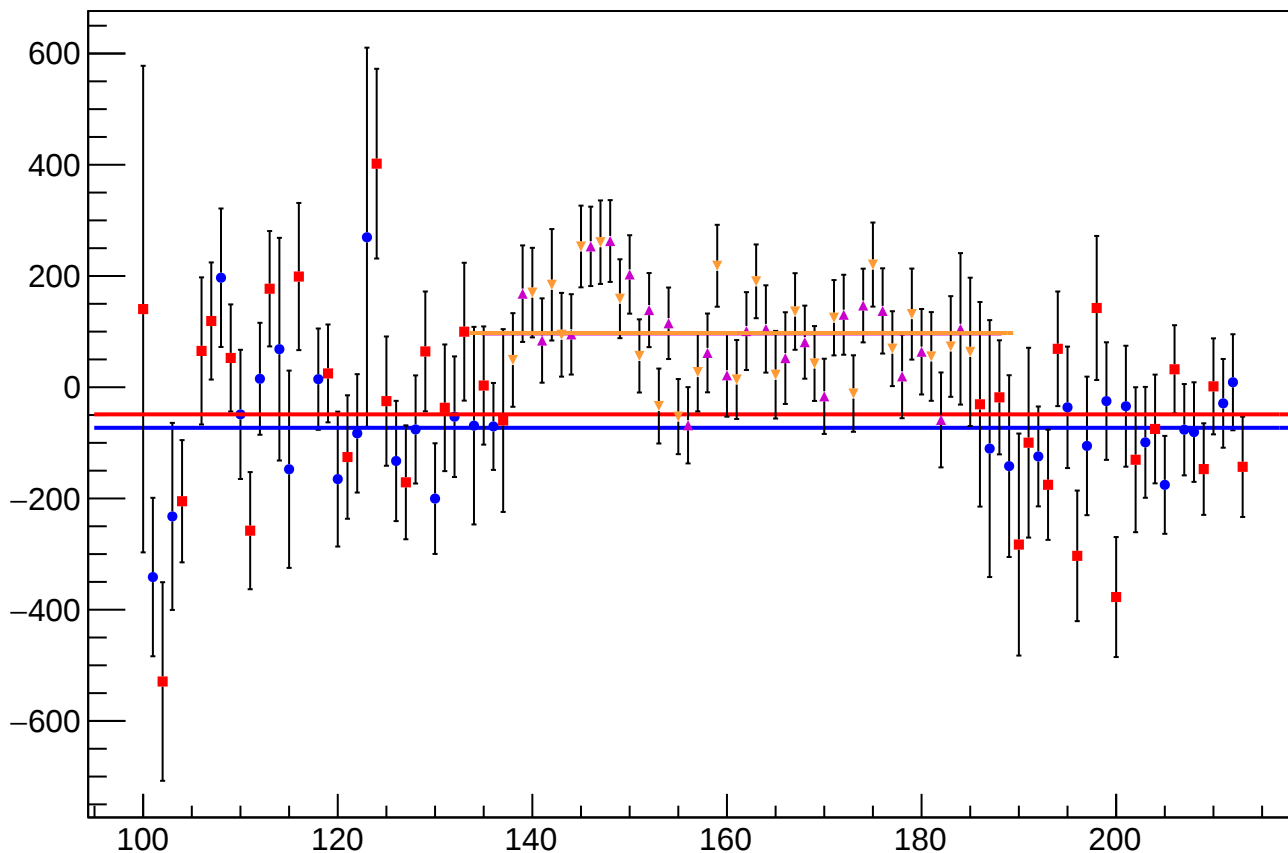
Right: 1605.185 $\pm$ 0.269 χ^2 /NDF: 3722848.0/34

In: 1128.119 $\pm$ 0.160 χ^2 /NDF: 4001657.4/39

Out: 1150.804 $\pm$ 0.158 χ^2 /NDF: 4371060.1/42

All: 1139.612 $\pm$ 0.113 χ^2 /NDF: 8382872.0/82

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -72.959 $\pm$ 19.867 χ^2/NDF : 18.8/29

Left Out: 97.445 $\pm$ 14.880 χ^2/NDF : 36.0/24

Right Out: -48.759 $\pm$ 19.214 χ^2/NDF : 63.5/33

Left In: 96.704 $\pm$ 15.369 χ^2/NDF : 29.2/22

Left: 97.087 $\pm$ 10.690 χ^2/NDF : 65.2/47

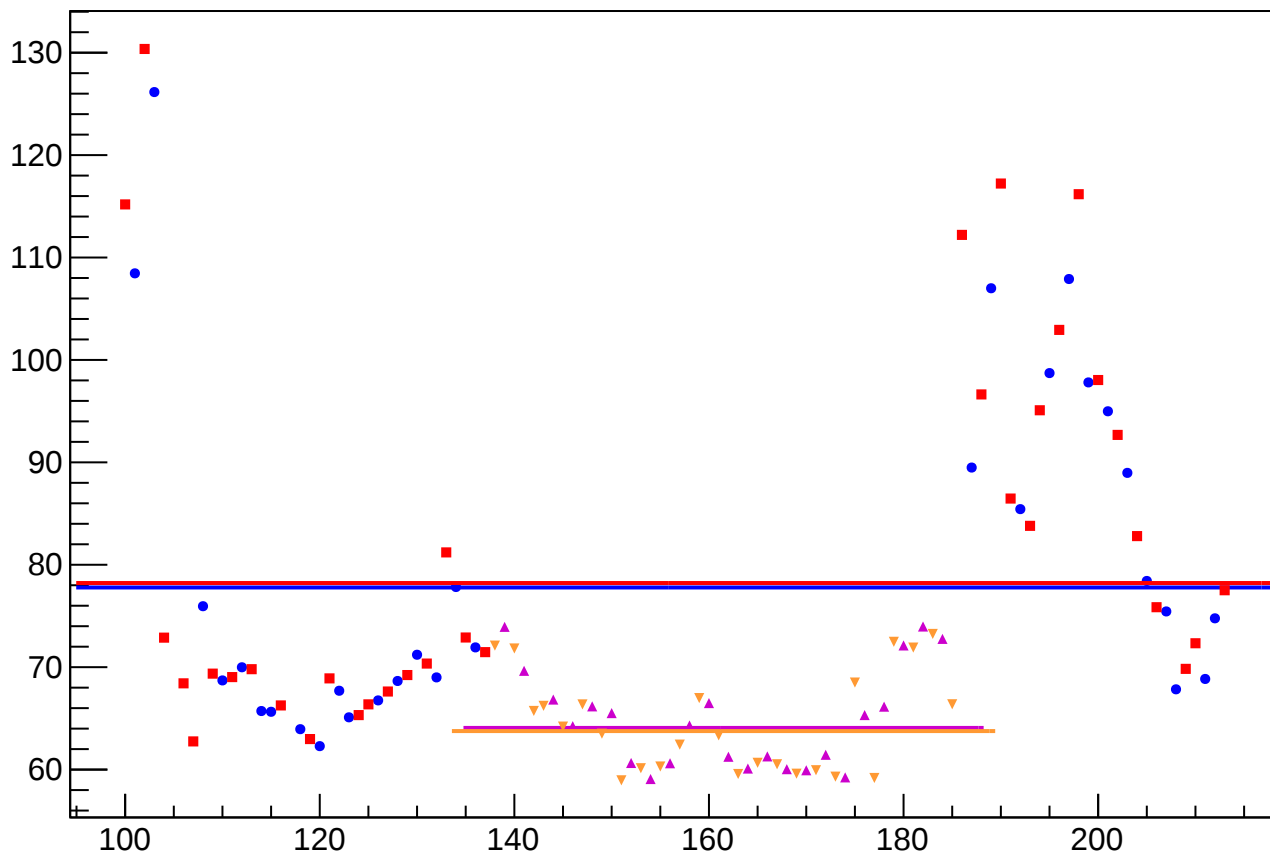
Right: -60.455 $\pm$ 13.812 χ^2/NDF : 83.1/63

In: 33.182 $\pm$ 12.156 χ^2/NDF : 93.7/52

Out: 42.635 $\pm$ 11.765 χ^2/NDF : 135.7/58

All: 38.063 $\pm$ 8.454 χ^2/NDF : 229.6/111

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.782 $\pm$ 0.014 χ^2 /NDF: 945513.0/29

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 78.217 $\pm$ 0.014 χ^2 /NDF: 1128759.0/33

Left In: 64.069 $\pm$ 0.011 χ^2 /NDF: 164660.4/22

Left: 63.910 $\pm$ 0.008 χ^2 /NDF: 357877.2/47

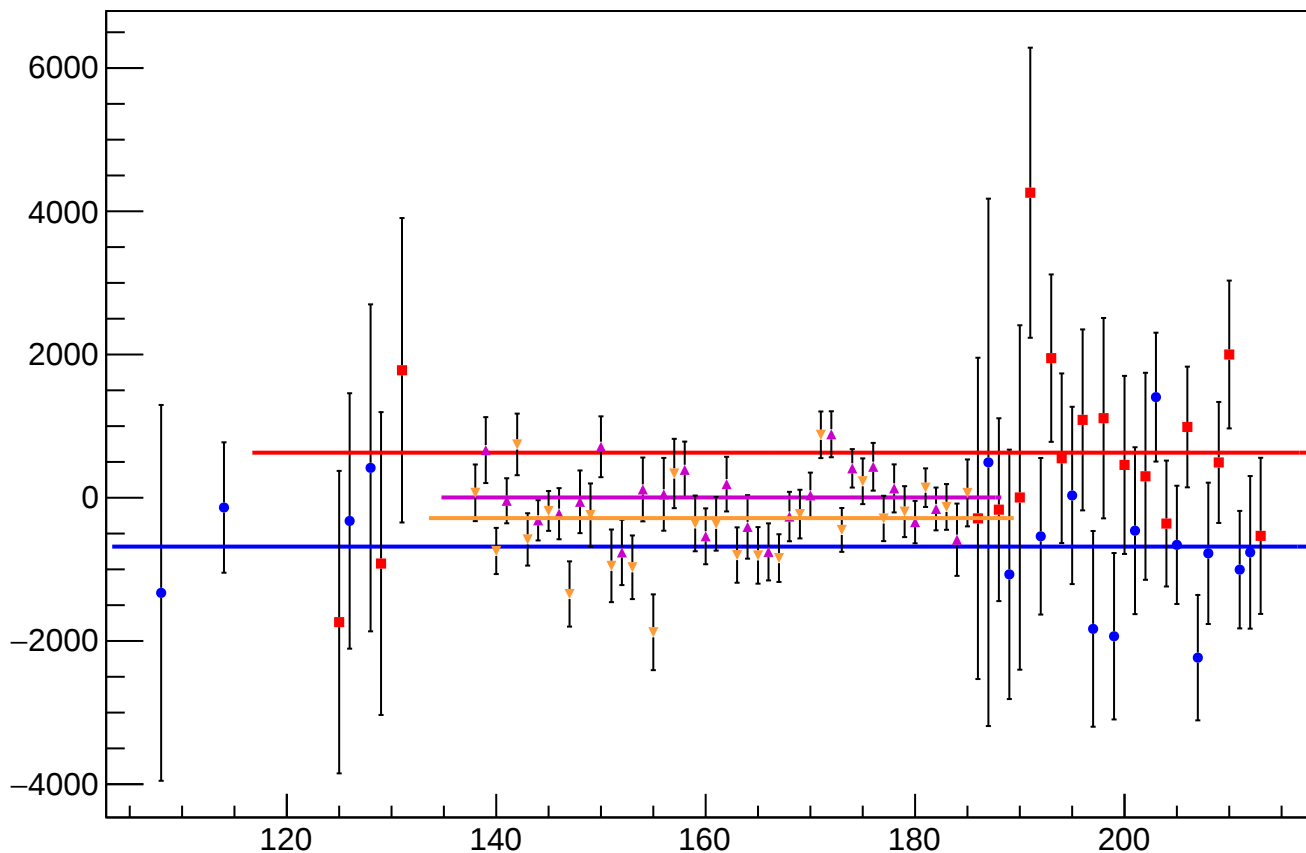
Right: 78.007 $\pm$ 0.010 χ^2 /NDF: 2074767.8/63

In: 69.203 $\pm$ 0.009 χ^2 /NDF: 1706307.3/52

Out: 69.180 $\pm$ 0.008 χ^2 /NDF: 2029233.3/58

All: 69.191 $\pm$ 0.006 χ^2 /NDF: 3735544.1/111

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -682.159+/-275.611 χ^2/NDF : 11.8/16

Left Out: -284.304+/-72.732 χ^2/NDF :55.1/24

Right Out: 629.493+/-295.008 χ^2/NDF : 11.9/17

Left In: 4.037+/-75.084 χ^2/NDF :32.4/22

Left: -144.720+/-52.241 χ^2/NDF : 95.0/47

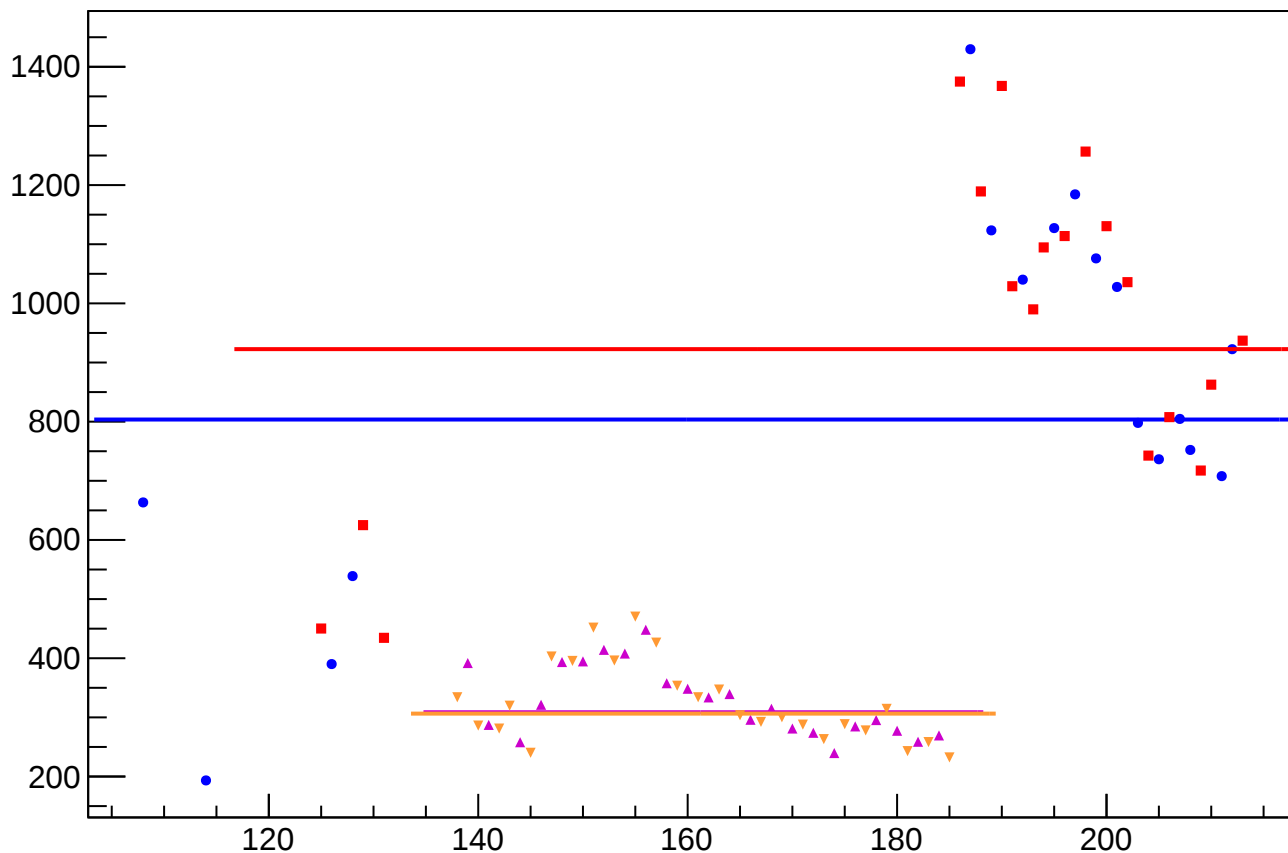
Right: -70.868+/-201.395 χ^2/NDF : 34.2/34

In: -43.372+/-72.444 χ^2/NDF :49.9/39

Out: -231.942+/-70.618 χ^2/NDF :76.0/42

All: -140.064+/-50.568 χ^2/NDF : 129.4/82

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 803.607 $\pm$ 0.195 χ^2 /NDF: 1804177.4/16

Left Out: 306.363 $\pm$ 0.051 χ^2 /NDF:1215669.9/24

Right Out: 922.631 $\pm$ 0.209 χ^2 /NDF: 1010879.1/17

Left In: 308.727 $\pm$ 0.053 χ^2 /NDF:1002947.4/22

Left: 307.507 $\pm$ 0.037 χ^2 /NDF: 2219640.0/47

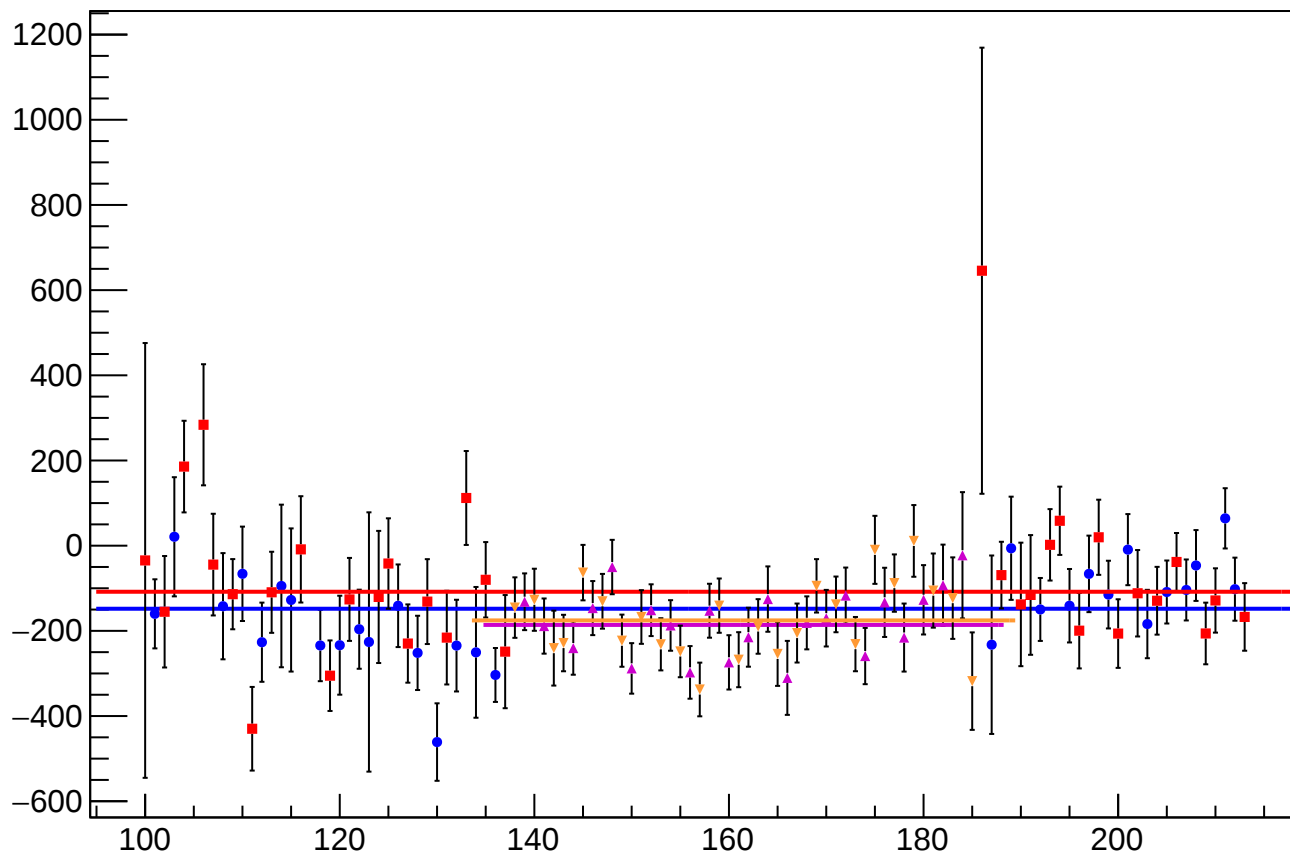
Right: 859.078 $\pm$ 0.142 χ^2 /NDF: 2988891.6/34

In: 342.918 $\pm$ 0.051 χ^2 /NDF:8809807.5/39

Out: 341.676 $\pm$ 0.050 χ^2 /NDF:10454202.2/42

All: 342.281 $\pm$ 0.036 χ^2 /NDF: 19264311.2/82

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -148.065 ± 16.899 $\chi^2/\text{NDF}: 42.2/29$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -108.165 ± 16.636 $\chi^2/\text{NDF}: 57.6/33$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

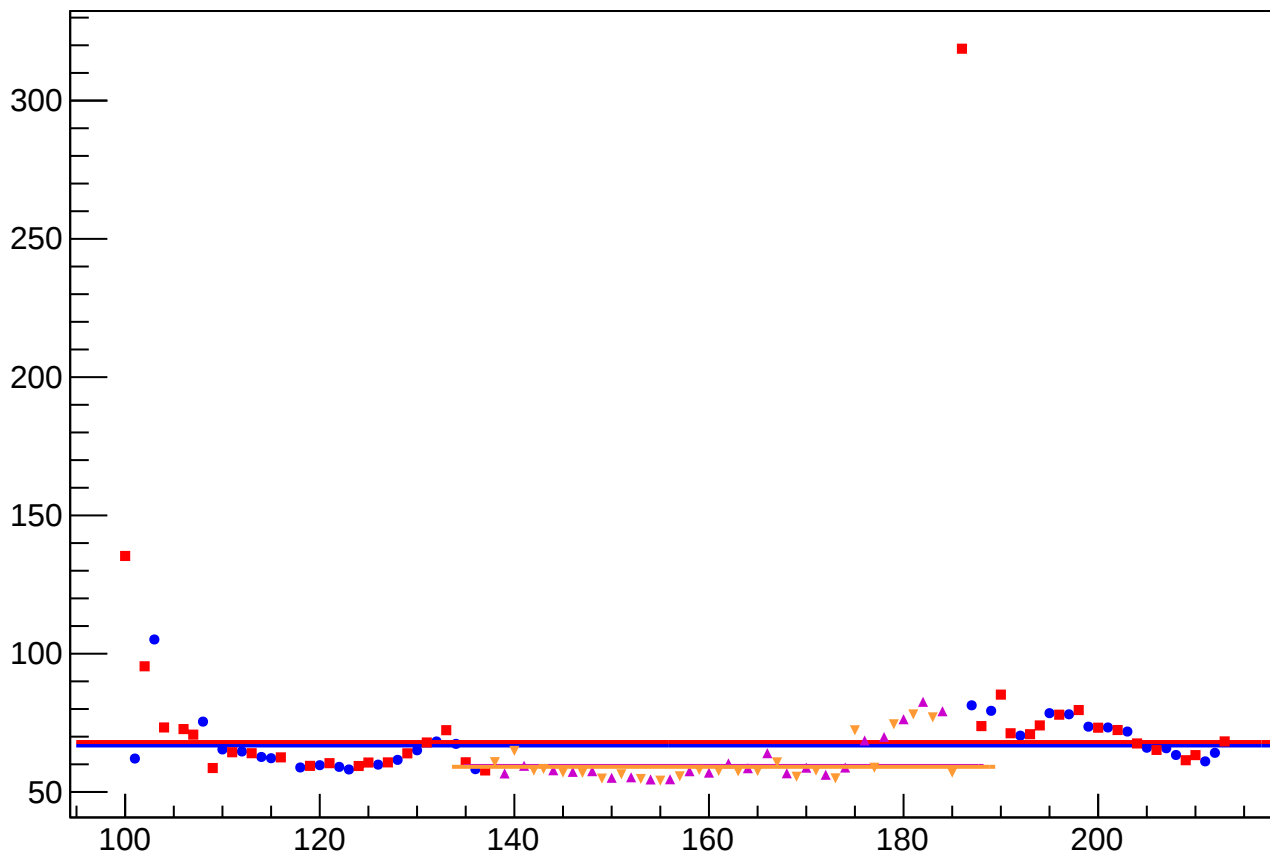
Right: -127.803 ± 11.855 $\chi^2/\text{NDF}: 102.6/63$

In: -170.179 ± 10.923 $\chi^2/\text{NDF}: 68.7/52$

Out: -147.929 ± 10.642 $\chi^2/\text{NDF}: 101.9/58$

All: -158.764 ± 7.623 $\chi^2/\text{NDF}: 172.7/111$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 66.814 $\pm$ 0.012 χ^2 /NDF: 424810.7/29

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.062 $\pm$ 0.012 χ^2 /NDF: 872390.7/33

Left In: 59.410 $\pm$ 0.010 χ^2 /NDF: 373052.7/22

Left: 59.250 $\pm$ 0.007 χ^2 /NDF: 743329.1/47

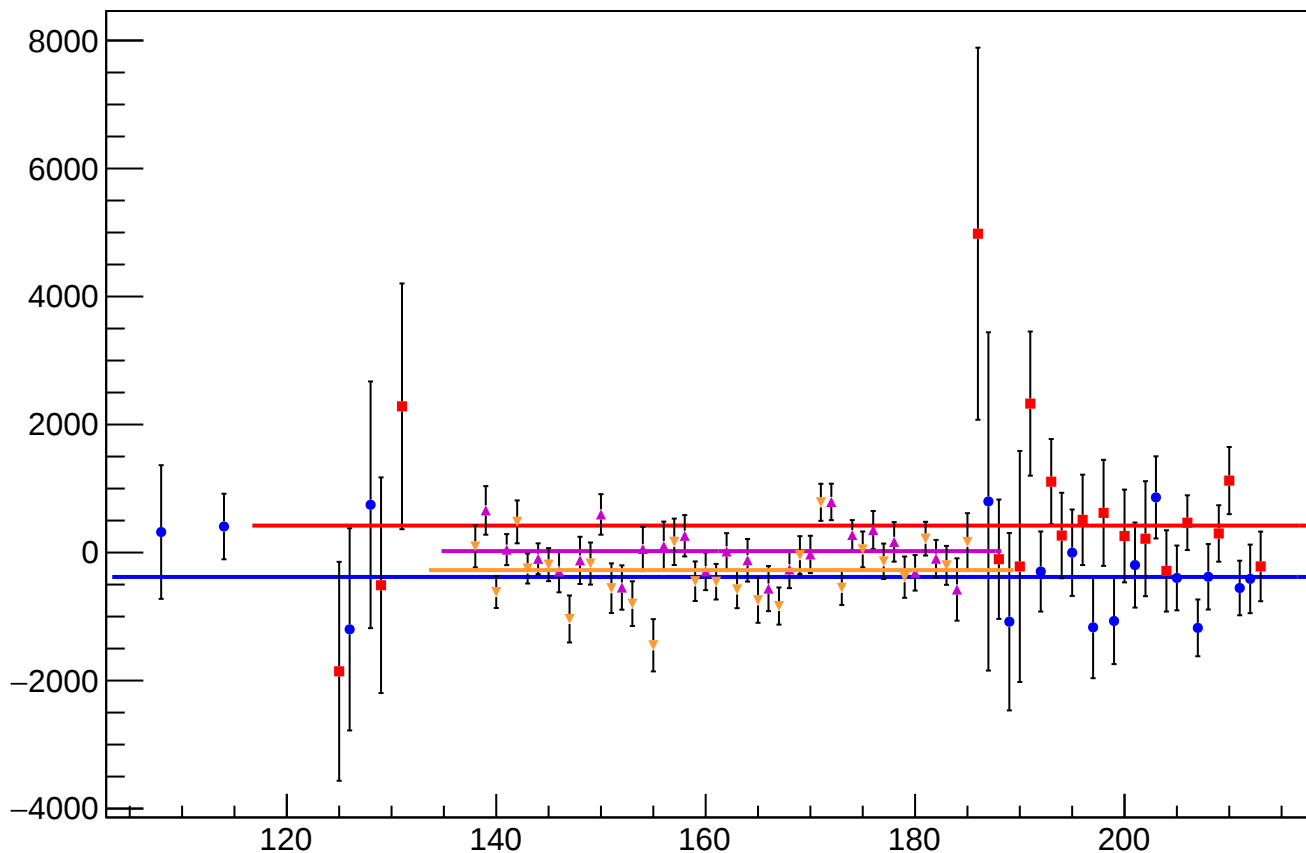
Right: 67.448 $\pm$ 0.008 χ^2 /NDF: 1302745.8/63

In: 62.503 $\pm$ 0.008 χ^2 /NDF: 1021361.1/52

Out: 62.767 $\pm$ 0.008 χ^2 /NDF: 1585158.9/58

All: 62.639 $\pm$ 0.005 χ^2 /NDF: 2607117.6/111

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -381.189+/-155.990 χ^2/NDF : 13.5/16

Left Out: -274.091+/-60.799 χ^2/NDF : 53.9/24

Right Out: 421.418+/-170.170 χ^2/NDF : 14.6/17

Left In: 22.631+/-63.643 χ^2/NDF : 28.9/22

Left: -132.507+/-43.963 χ^2/NDF : 94.2/47

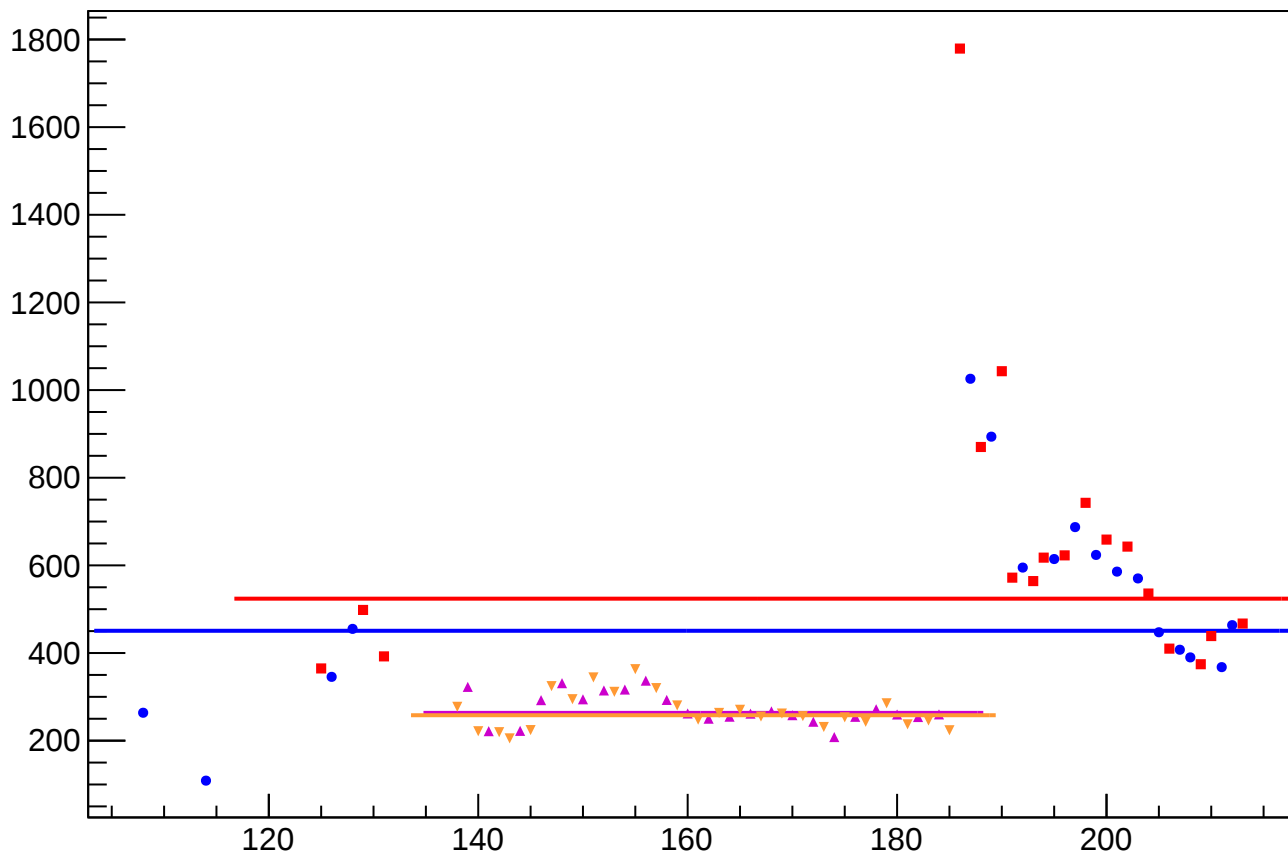
Right: -14.712+/-114.989 χ^2/NDF : 40.1/34

In: -34.996+/-58.927 χ^2/NDF : 48.1/39

Out: -195.358+/-57.255 χ^2/NDF : 83.3/42

All: -117.485+/-41.064 χ^2/NDF : 135.2/82

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 450.744+/-0.110 χ^2/NDF : 2072422.7/16

Left Out: 258.040+/-0.043 χ^2/NDF : 724823.3/24

Right Out: 524.025+/-0.120 χ^2/NDF : 1622066.1/17

Left In: 263.397+/-0.045 χ^2/NDF : 585600.2/22

Left: 260.596+/-0.031 χ^2/NDF : 1317830.8/47

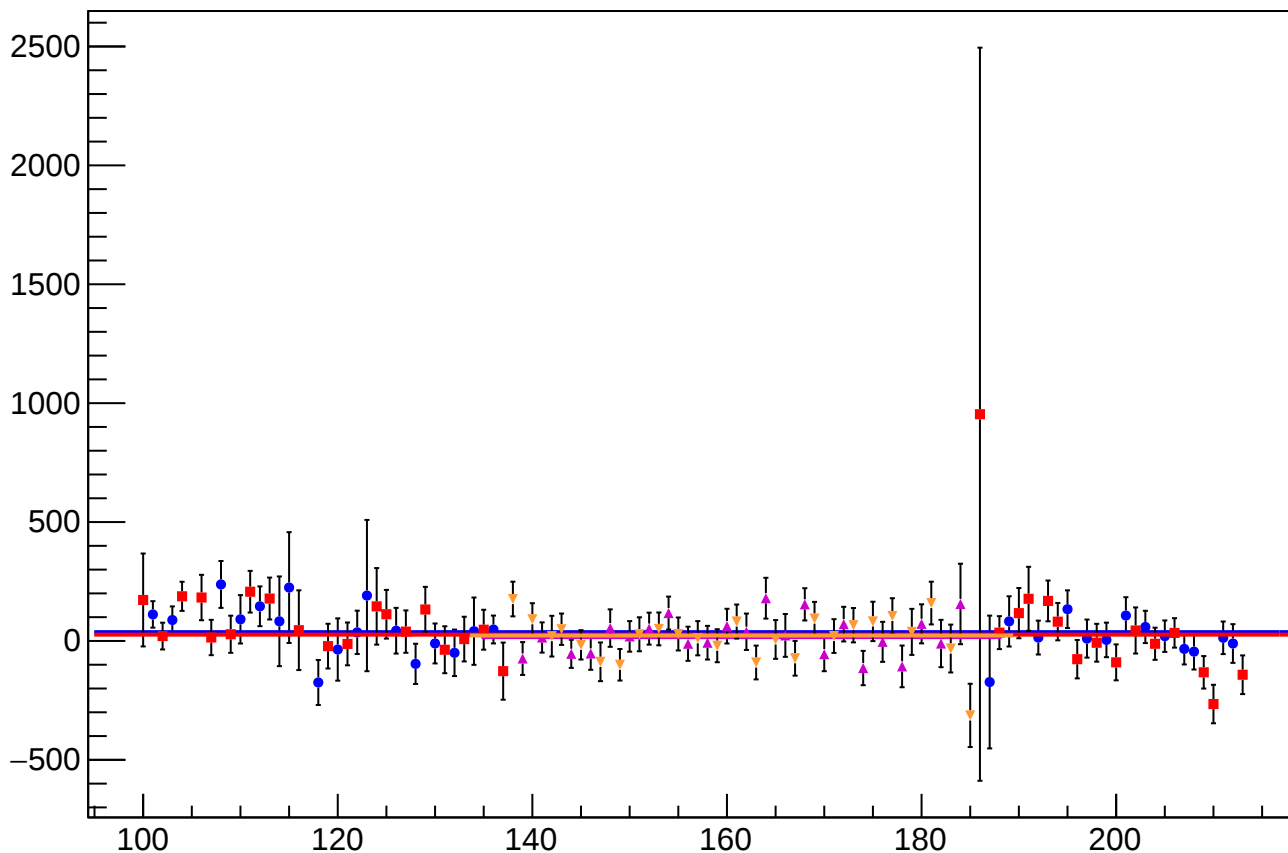
Right: 484.205+/-0.081 χ^2/NDF : 3896031.6/34

In: 290.132+/-0.042 χ^2/NDF : 5131216.3/39

Out: 288.150+/-0.040 χ^2/NDF : 6680035.6/42

All: 289.113+/-0.029 χ^2/NDF : 11812415.3/82

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 37.033 $\pm$ 15.168 χ^2 /NDF: 25.1/29

Left Out: 22.871 $\pm$ 14.968 χ^2 /NDF:29.0/24

Right Out: 26.511 $\pm$ 14.691 χ^2 /NDF: 55.4/33

Left In: 16.198 $\pm$ 15.531 χ^2 /NDF:23.3/22

Left: 19.658 $\pm$ 10.777 χ^2 /NDF: 52.4/47

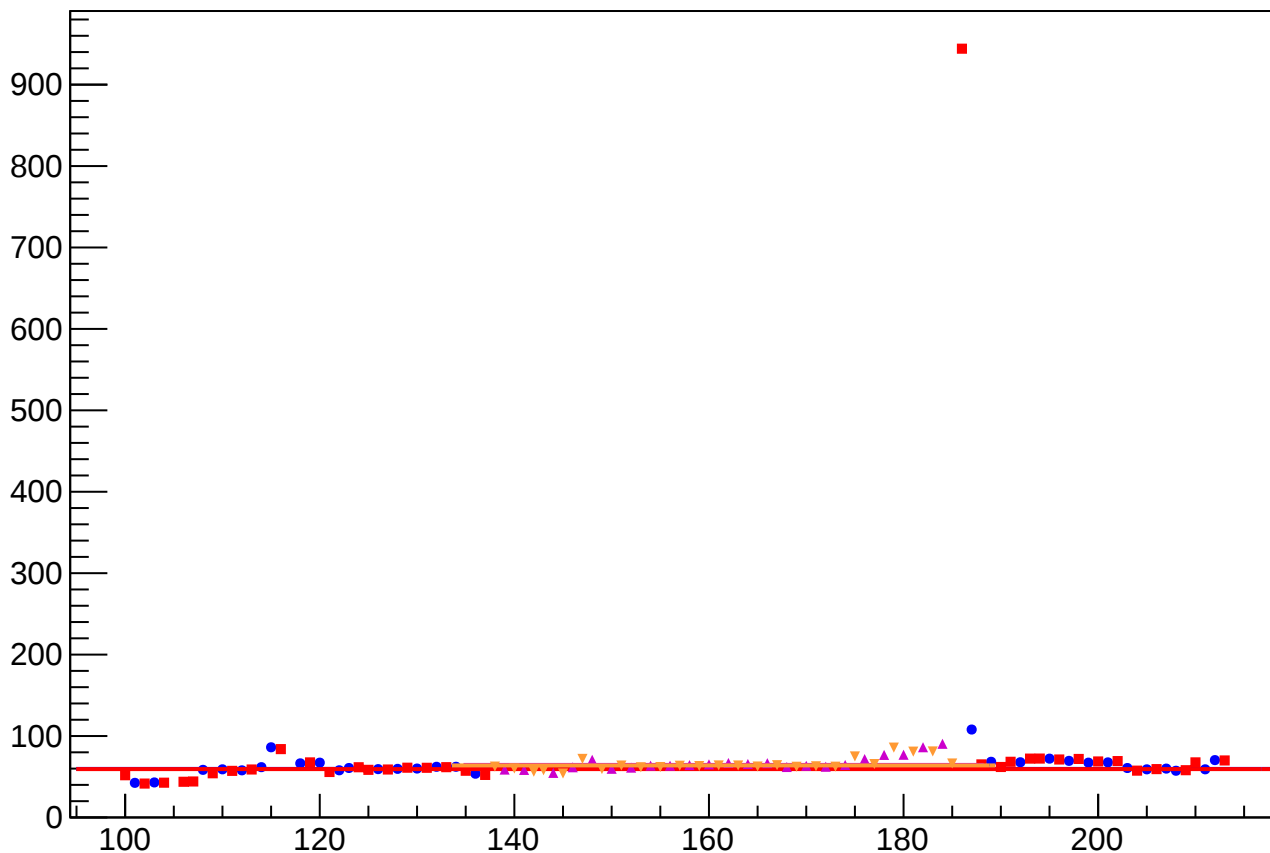
Right: 31.604 $\pm$ 10.553 χ^2 /NDF: 80.7/63

In: 26.862 $\pm$ 10.851 χ^2 /NDF:49.3/52

Out: 24.725 $\pm$ 10.485 χ^2 /NDF:84.4/58

All: 25.757 $\pm$ 7.540 χ^2 /NDF: 133.7/111

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.616 $\pm$ 0.011 χ^2 /NDF: 689090.6/29

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.394 $\pm$ 0.010 χ^2 /NDF: 1552902.9/33

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

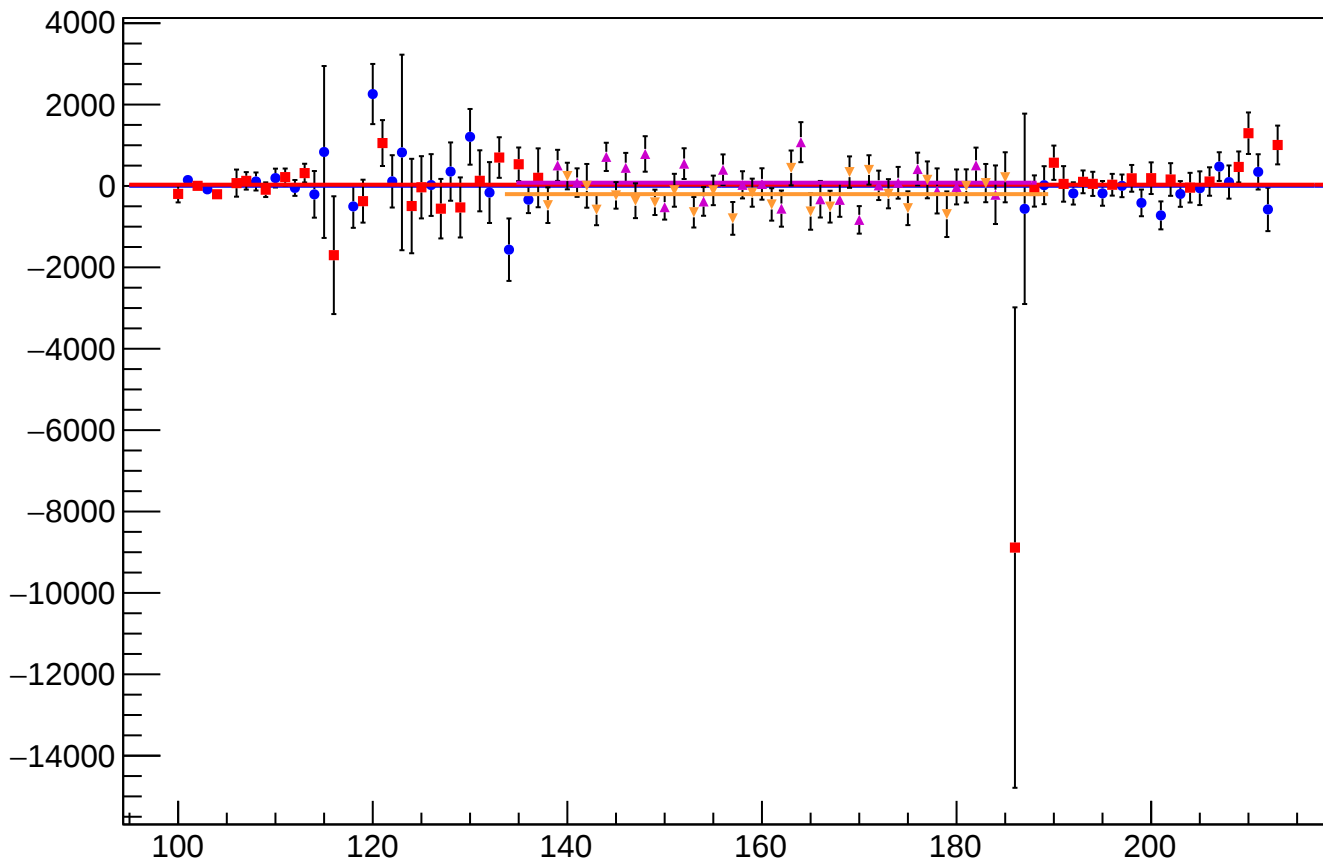
Right: 59.502 $\pm$ 0.007 χ^2 /NDF: 2242215.3/63

In: 62.006 $\pm$ 0.008 χ^2 /NDF: 1161267.6/52

Out: 61.615 $\pm$ 0.007 χ^2 /NDF: 2041443.7/58

All: 61.804 $\pm$ 0.005 χ^2 /NDF: 3204053.5/111

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 4.647 ± 45.905 χ^2/NDF : 35.4/29

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 31.100 ± 46.578 χ^2/NDF : 36.2/33

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

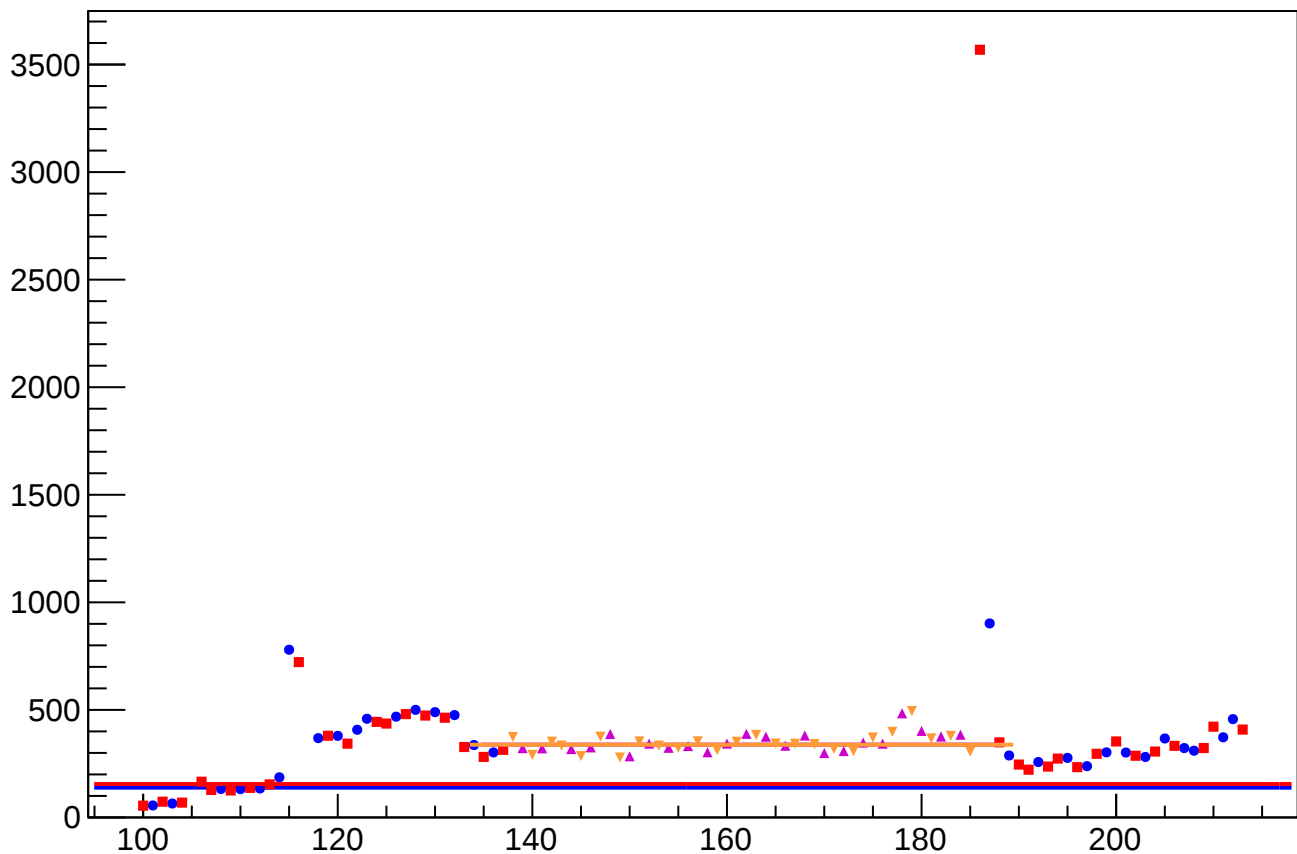
Right: 17.681 ± 32.695 χ^2/NDF : 71.7/63

In: 22.697 ± 40.030 χ^2/NDF : 69.4/52

Out: -28.180 ± 40.195 χ^2/NDF : 62.2/58

All: -2.637 ± 28.364 χ^2/NDF : 132.4/111

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 138.736 $\pm$ 0.032 χ^2 /NDF: 12740557.9/29

Left Out: 338.130 $\pm$ 0.056 χ^2 /NDF: 498601.7/24

Right Out: 155.308 $\pm$ 0.033 χ^2 /NDF: 11739411.0/33

Left In: 338.564 $\pm$ 0.058 χ^2 /NDF: 437243.0/22

Left: 338.341 $\pm$ 0.040 χ^2 /NDF: 935873.7/47

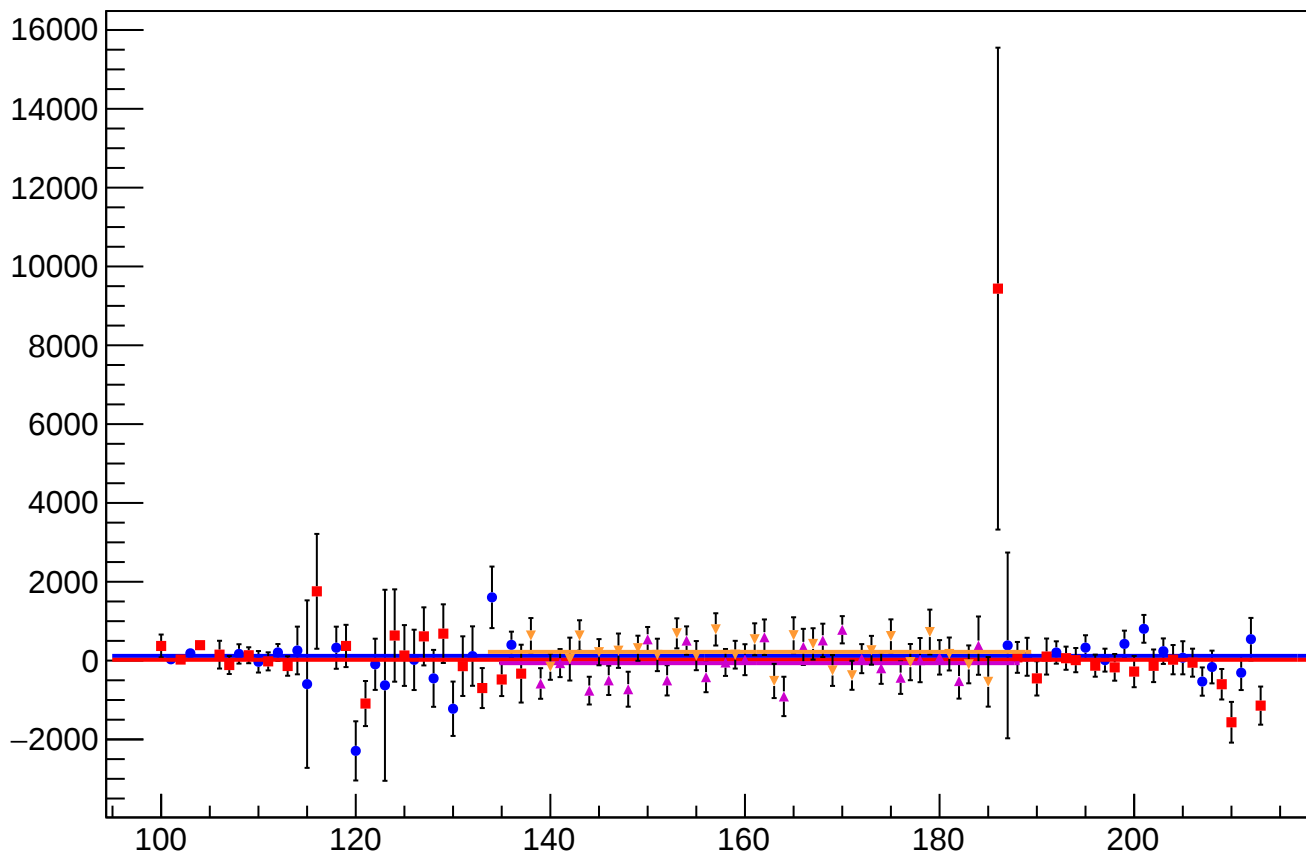
Right: 146.902 $\pm$ 0.023 χ^2 /NDF: 24608390.3/63

In: 186.613 $\pm$ 0.028 χ^2 /NDF: 22257771.2/52

Out: 201.985 $\pm$ 0.028 χ^2 /NDF: 20104732.1/58

All: 194.267 $\pm$ 0.020 χ^2 /NDF: 42509367.2/11

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 119.481+/-53.947 χ^2/NDF : 31.8/29

Left Out: 221.083+/-81.018 χ^2/NDF :19.7/24

Right Out: 20.267+/-51.836 χ^2/NDF : 45.9/33

Left In: -65.510+/-83.319 χ^2/NDF :34.0/22

Left: 81.798+/-58.085 χ^2/NDF : 59.7/47

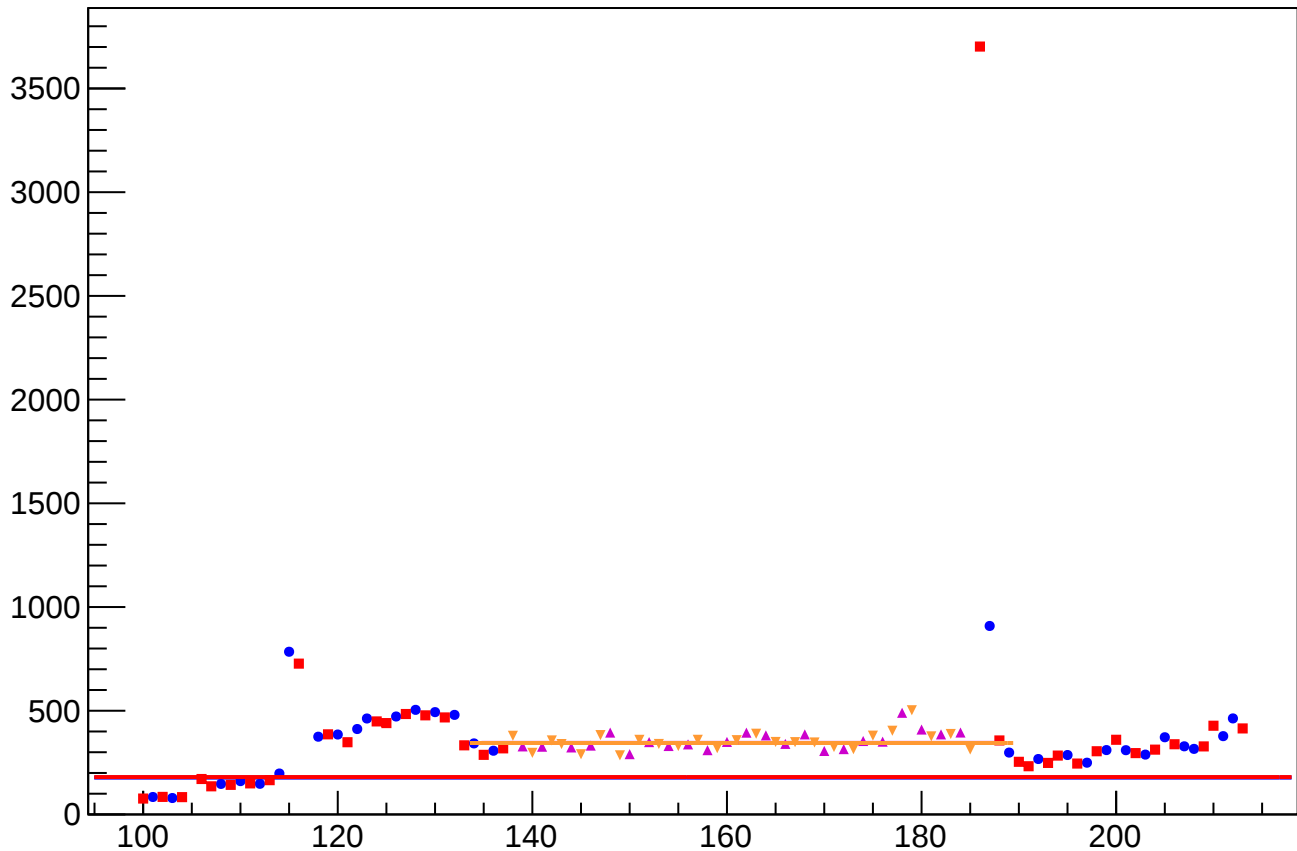
Right: 67.894+/-37.377 χ^2/NDF : 79.5/63

In: 64.836+/-45.284 χ^2/NDF :69.3/52

Out: 78.594+/-43.664 χ^2/NDF :70.0/58

All: 71.966+/-31.432 χ^2/NDF : 139.3/111

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 177.700+/-0.038 χ^2/NDF : 9612316.0/29

Left Out: 344.506+/-0.057 χ^2/NDF : 488323.4/24

Right Out: 180.261+/-0.037 χ^2/NDF : 9837796.5/33

Left In: 345.039+/-0.059 χ^2/NDF : 427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

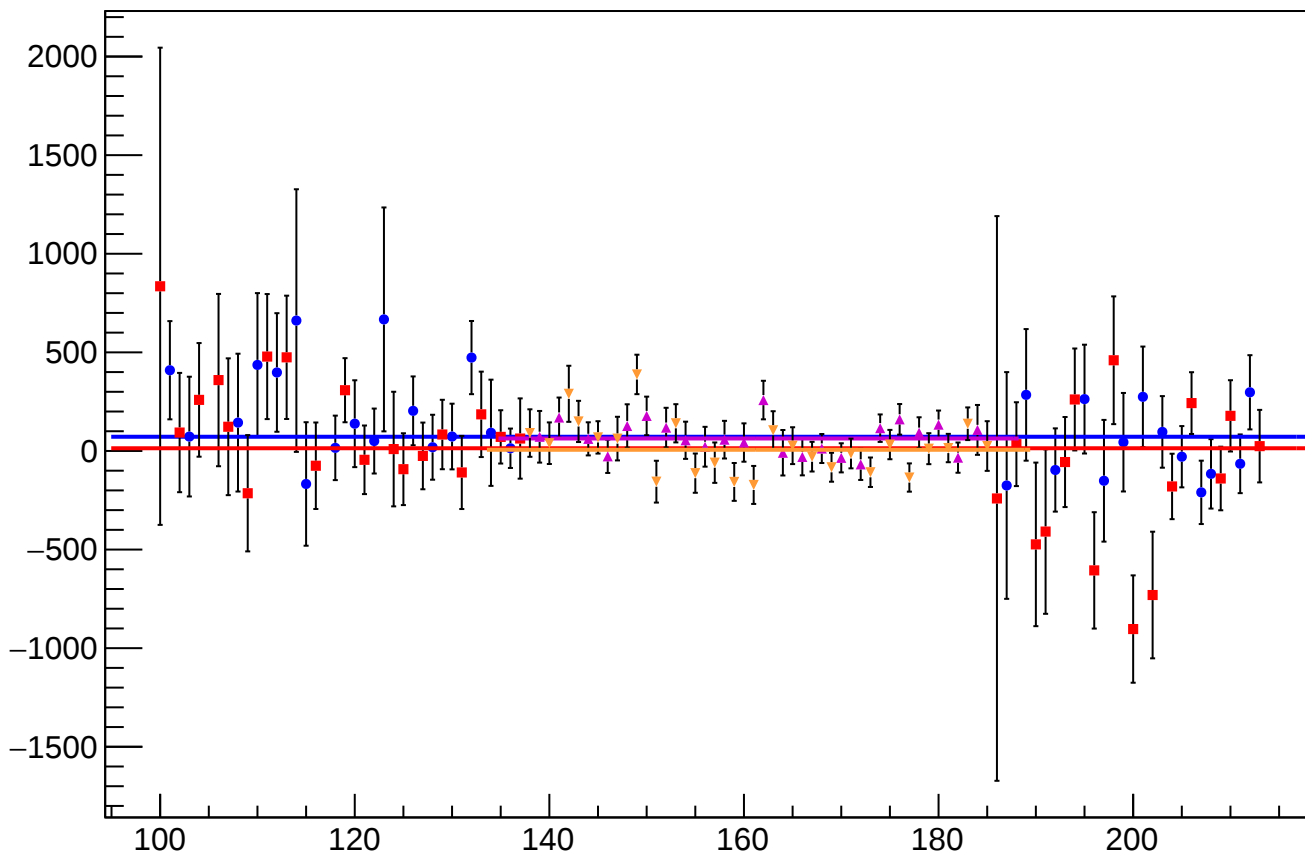
Right: 179.031+/-0.026 χ^2/NDF : 19452456.0/63

In: 227.130+/-0.032 χ^2/NDF : 15724143.1/52

Out: 227.966+/-0.031 χ^2/NDF : 16158272.0/58

All: 227.563+/-0.022 χ^2/NDF : 31882768.0/11

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 72.049 $\pm$ 37.300 χ^2 /NDF: 22.3/29

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: 13.743 $\pm$ 38.138 χ^2 /NDF: 44.0/33

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

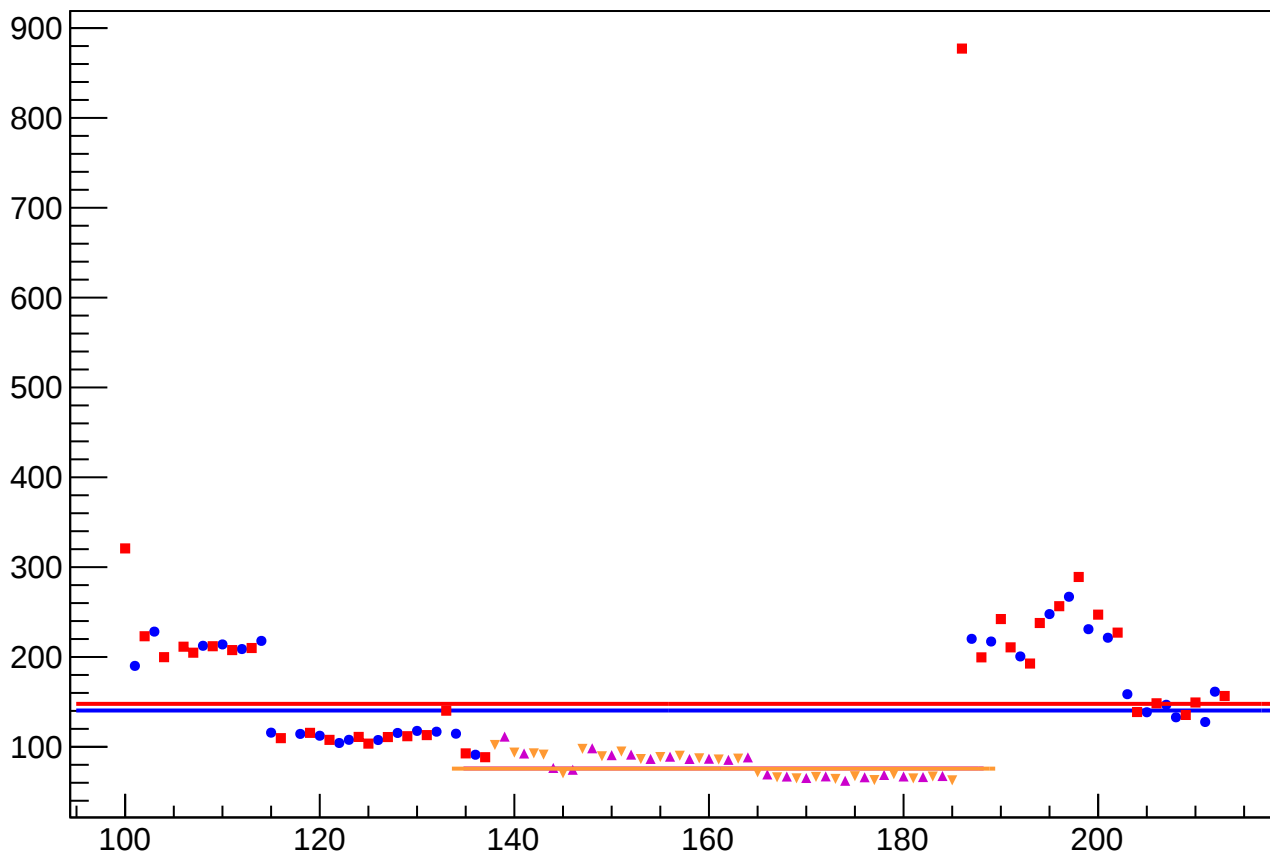
Right: 43.544 $\pm$ 26.666 χ^2 /NDF: 67.5/63

In: 65.002 $\pm$ 16.535 χ^2 /NDF:42.1/52

Out: 7.415 $\pm$ 16.211 χ^2 /NDF:90.1/58

All: 35.640 $\pm$ 11.576 χ^2 /NDF: 138.4/111

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.439 $\pm$ 0.026 χ^2 /NDF: 2910707.8/29

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 147.835 $\pm$ 0.027 χ^2 /NDF: 3890549.9/33

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

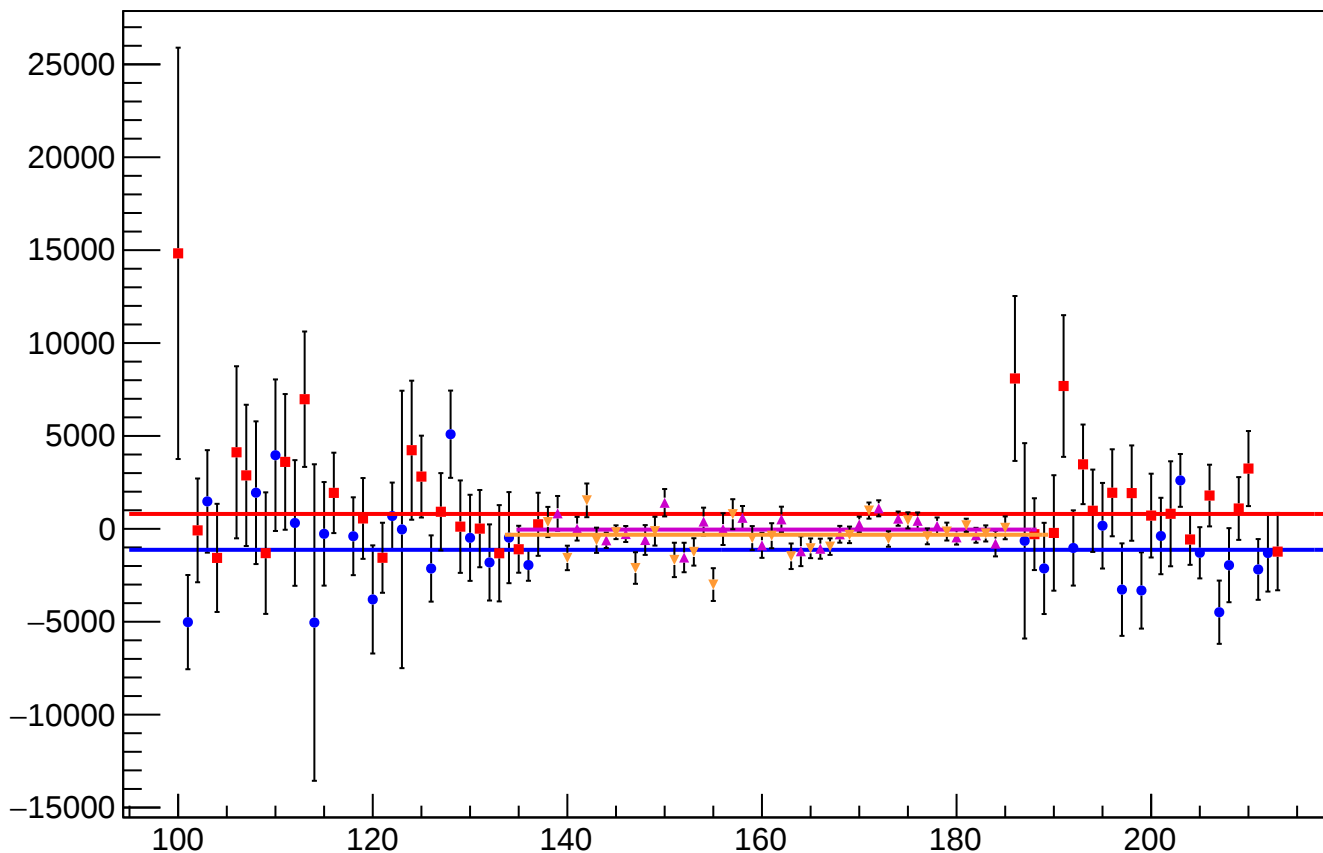
Right: 144.055 $\pm$ 0.019 χ^2 /NDF: 6839704.0/63

In: 88.590 $\pm$ 0.012 χ^2 /NDF:8551736.4/52

Out: 88.769 $\pm$ 0.011 χ^2 /NDF:10683682.9/58

All: 88.681 $\pm$ 0.008 χ^2 /NDF: 19235537.9/111

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1128.849 $\pm$ 370.449 χ^2 /NDF: 30.4/29

Left Out: -318.064 $\pm$ 108.014 χ^2 /NDF:50.0/24

Right Out: 801.855 $\pm$ 388.095 χ^2 /NDF: 26.0/33

Left In: -40.473 $\pm$ 110.252 χ^2 /NDF:34.7/22

Left: -182.115 $\pm$ 77.156 χ^2 /NDF: 88.0/47

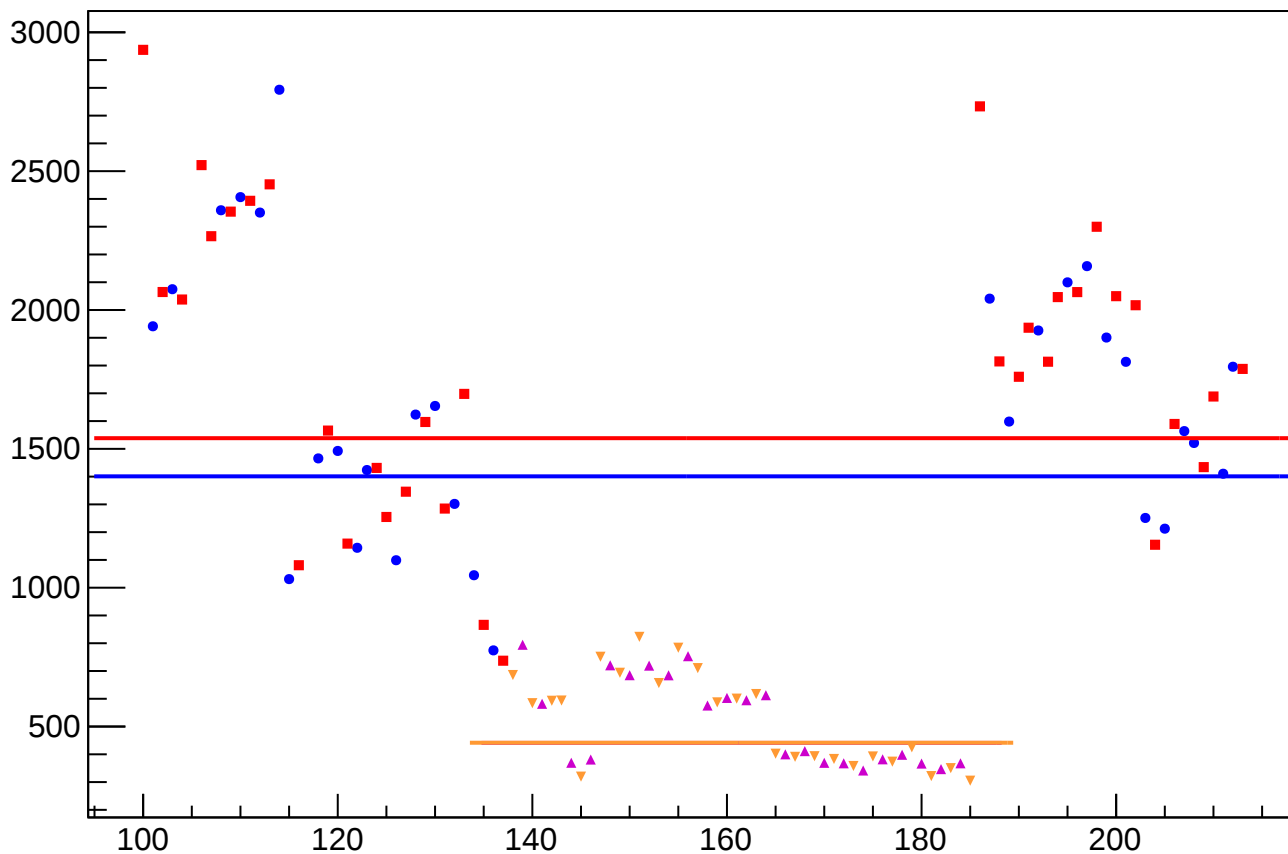
Right: -208.387 $\pm$ 267.968 χ^2 /NDF: 69.4/63

In: -129.033 $\pm$ 105.672 χ^2 /NDF:73.0/52

Out: -237.551 $\pm$ 104.059 χ^2 /NDF:83.8/58

All: -184.127 $\pm$ 74.144 χ^2 /NDF: 157.4/111

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1400.990+/-0.262 χ^2/NDF : 2888149.4/29

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1538.422+/-0.274 χ^2/NDF : 2959283.2/33

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

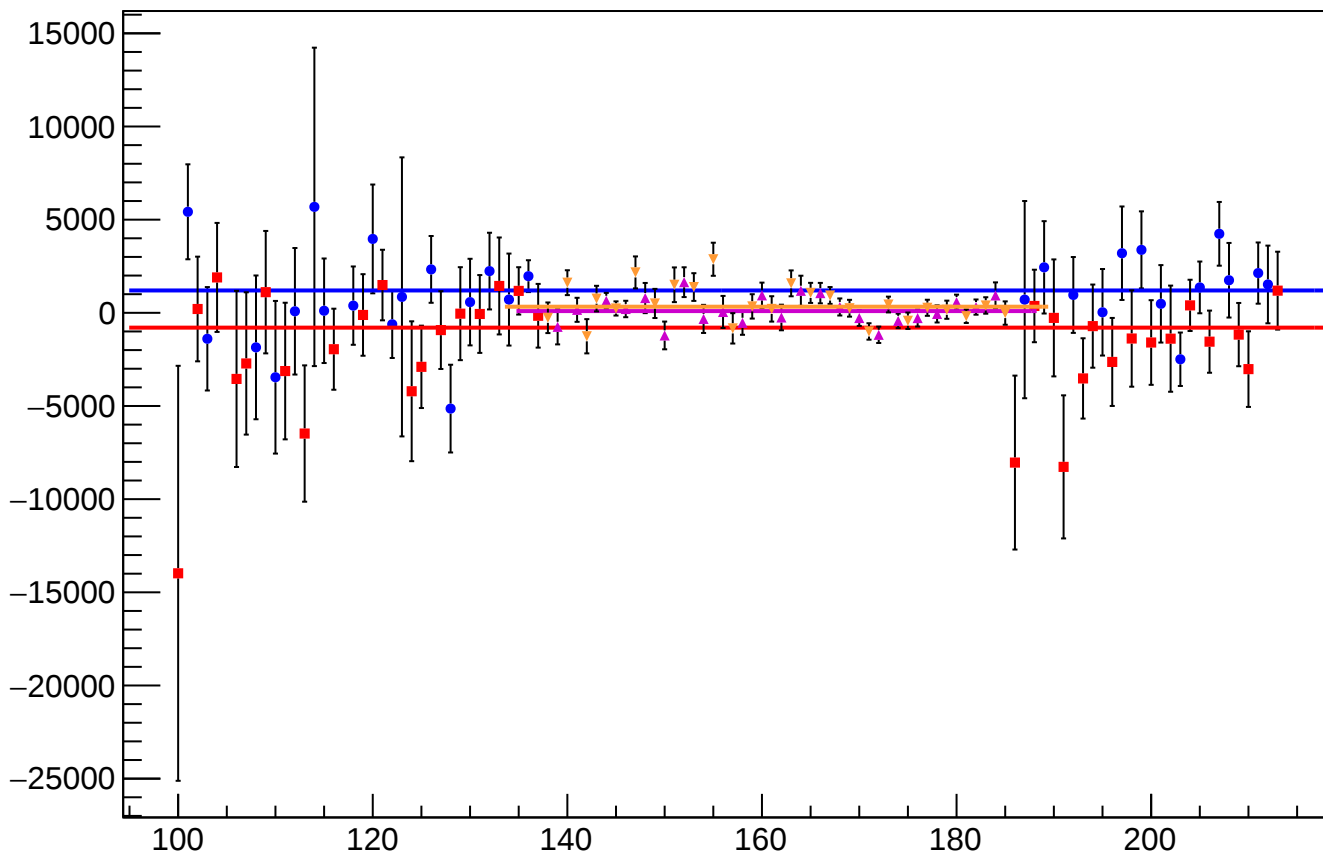
Right: 1466.510+/-0.189 χ^2/NDF : 5978665.2/63

In: 519.122+/-0.075 χ^2/NDF : 17823026.4/52

Out: 520.531+/-0.074 χ^2/NDF : 20952166.3/58

All: 519.837+/-0.052 χ^2/NDF : 38775373.3/111

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1200.355 $\pm$ 372.747 χ^2 /NDF: 29.6/29

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF: 47.7/24

Right Out: -795.113 $\pm$ 390.488 χ^2 /NDF: 25.3/33

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

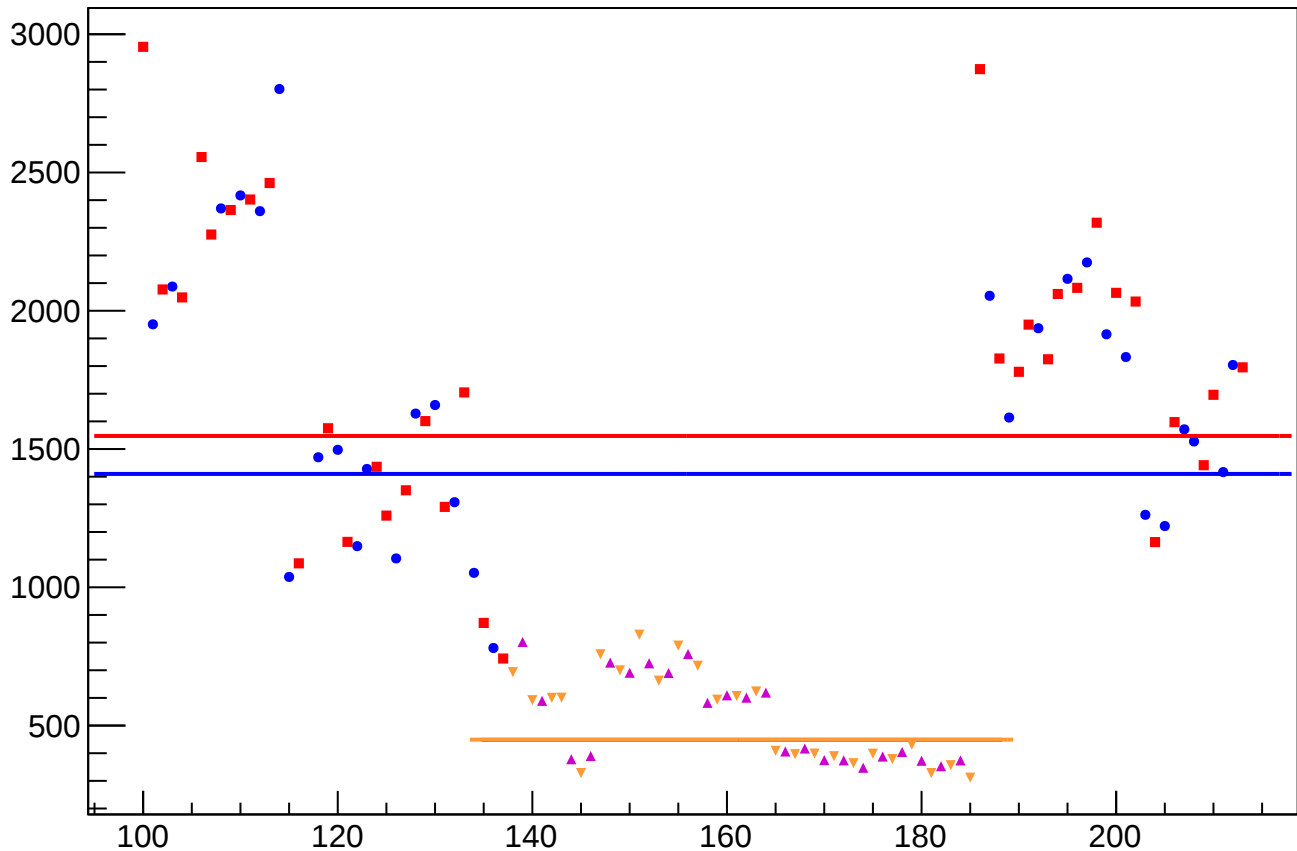
Right: 248.979 $\pm$ 269.626 χ^2 /NDF: 68.5/63

In: 184.921 $\pm$ 107.227 χ^2 /NDF: 71.0/52

Out: 246.444 $\pm$ 105.583 χ^2 /NDF: 80.7/58

All: 216.158 $\pm$ 75.233 χ^2 /NDF: 151.9/111

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1409.968 $\pm$ 0.264 χ^2 /NDF: 2877722.2/29

Left Out: 449.016 $\pm$ 0.078 χ^2 /NDF:3090476.2/24

Right Out: 1547.254 $\pm$ 0.276 χ^2 /NDF: 2978304.8/33

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

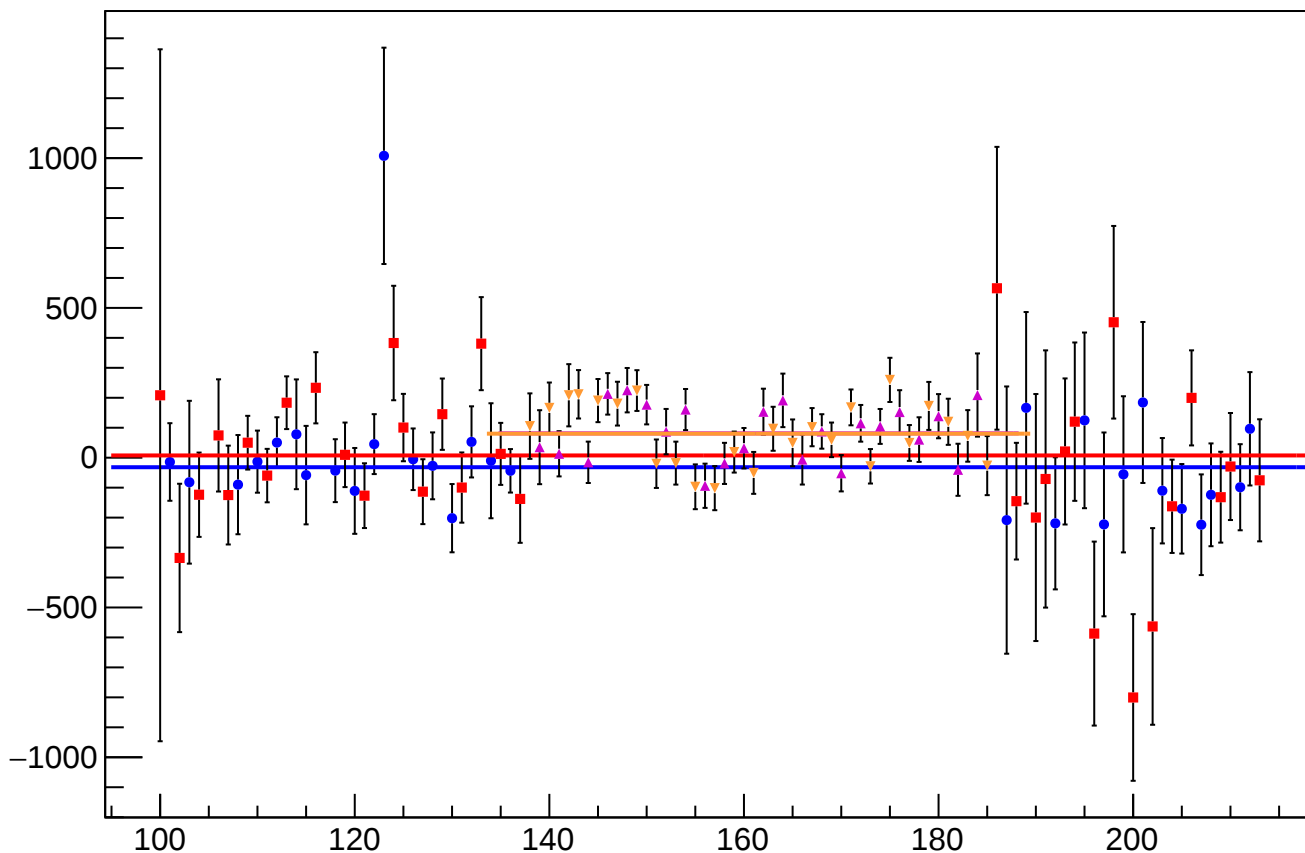
Right: 1475.422 $\pm$ 0.191 χ^2 /NDF: 5985376.0/63

In: 527.887 $\pm$ 0.076 χ^2 /NDF:17625574.7/52

Out: 529.308 $\pm$ 0.075 χ^2 /NDF:20732237.1/58

All: 528.609 $\pm$ 0.053 χ^2 /NDF: 38357990.2/11

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -31.824 ± 25.770 $\chi^2/\text{NDF}: 19.5/29$

Left Out: 80.171 ± 14.592 $\chi^2/\text{NDF}: 48.6/24$

Right Out: 7.504 ± 25.264 $\chi^2/\text{NDF}: 51.6/33$

Left In: 81.156 ± 15.105 $\chi^2/\text{NDF}: 35.3/22$

Left: 80.646 ± 10.495 $\chi^2/\text{NDF}: 83.8/47$

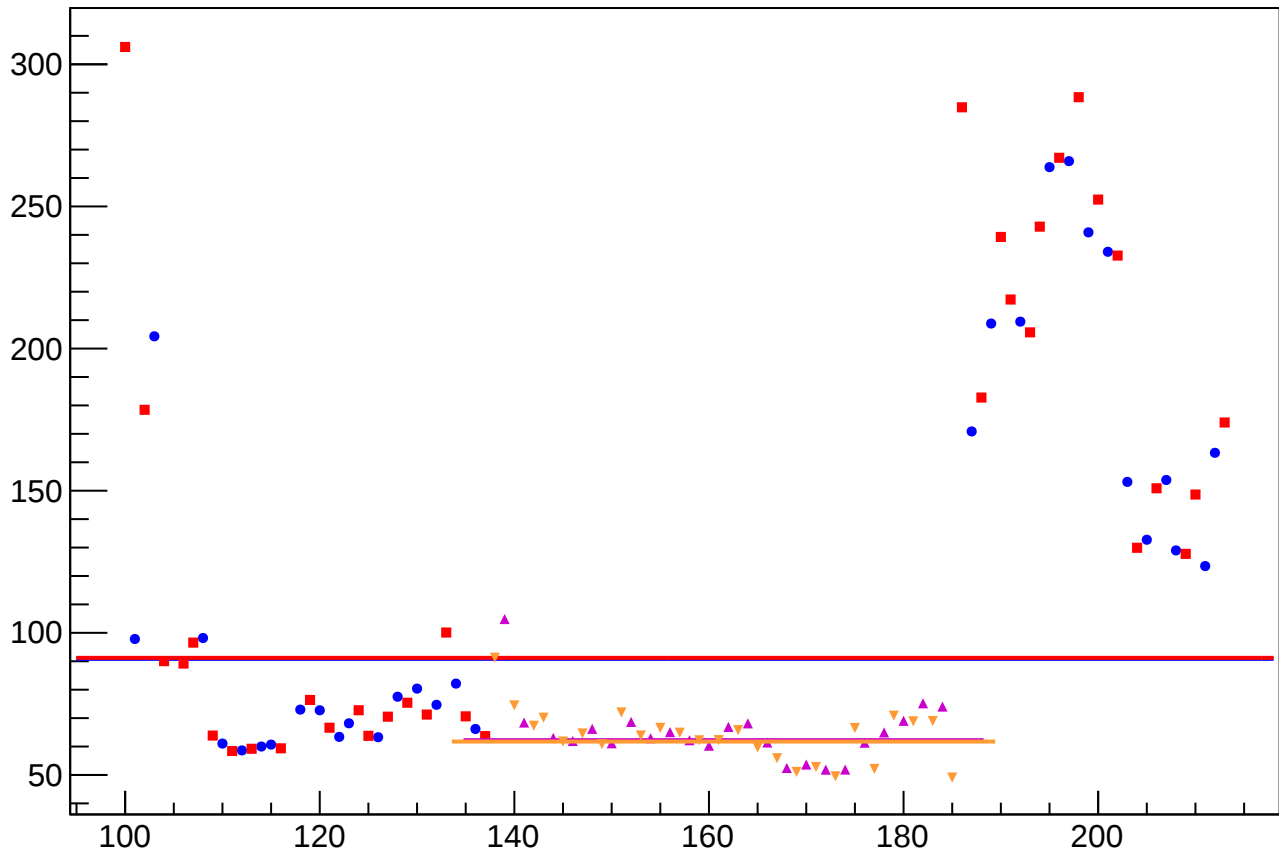
Right: -11.770 ± 18.041 $\chi^2/\text{NDF}: 72.3/63$

In: 52.264 ± 13.032 $\chi^2/\text{NDF}: 69.1/52$

Out: 61.993 ± 12.636 $\chi^2/\text{NDF}: 106.3/58$

All: 57.278 ± 9.072 $\chi^2/\text{NDF}: 175.7/111$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 90.851 $\pm$ 0.018 χ^2 /NDF: 6326303.5/29

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 91.206 $\pm$ 0.018 χ^2 /NDF: 7607237.1/33

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

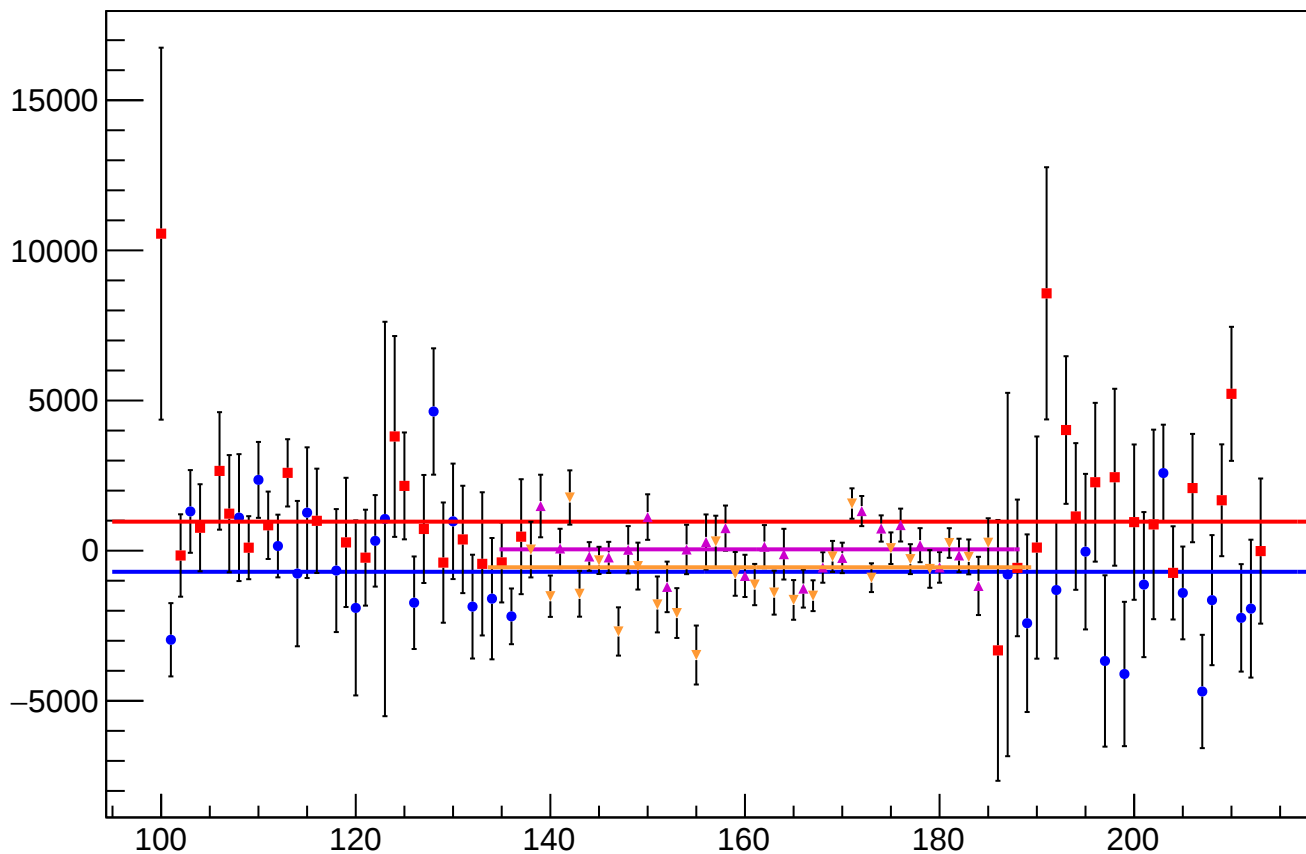
Right: 91.032 $\pm$ 0.013 χ^2 /NDF: 13933734.2/63

In: 69.564 $\pm$ 0.009 χ^2 /NDF: 8750963.0/52

Out: 69.127 $\pm$ 0.009 χ^2 /NDF: 10289843.4/58

All: 69.339 $\pm$ 0.006 χ^2 /NDF: 19041967.2/111

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -703.277 ± 323.264 $\chi^2/\text{NDF}: 38.9/29$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 966.558 ± 318.087 $\chi^2/\text{NDF}: 22.9/33$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

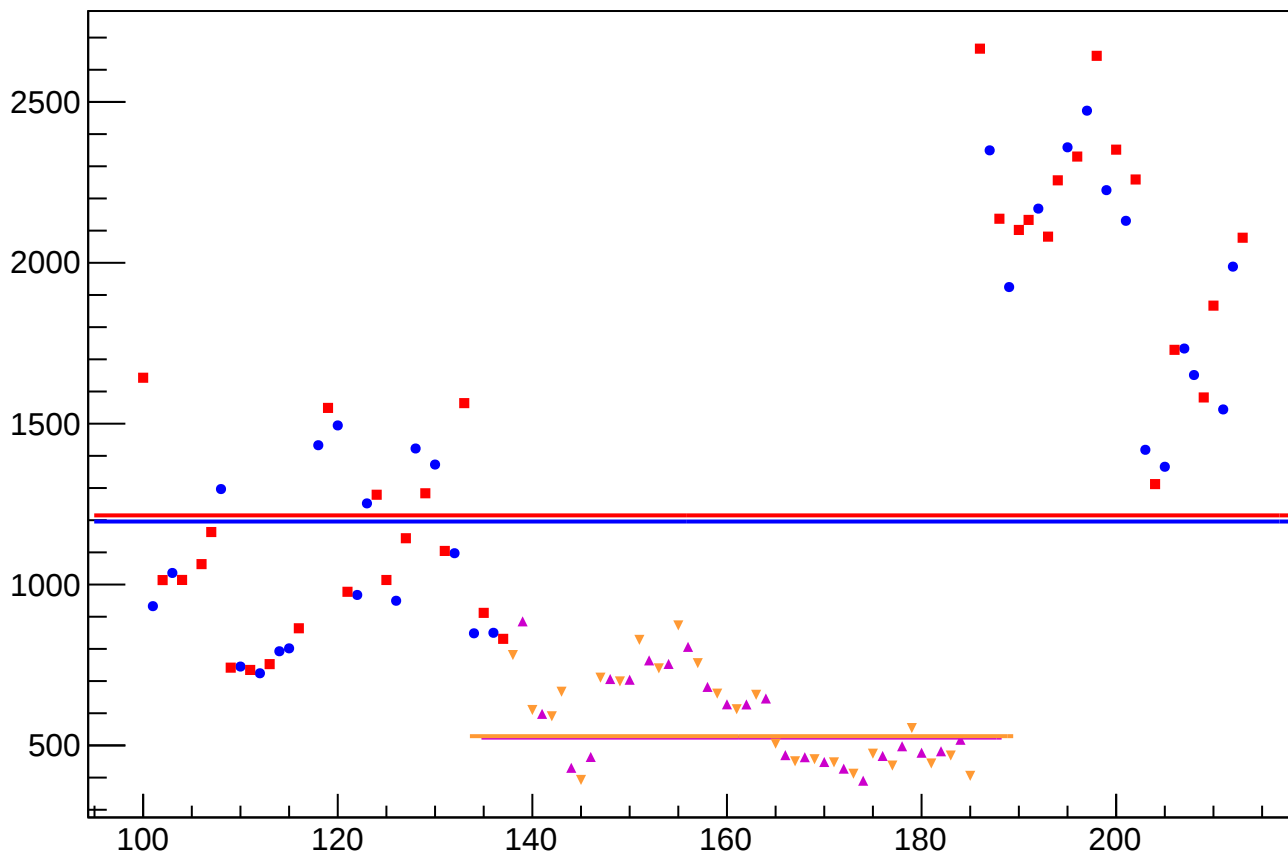
Right: 145.119 ± 226.730 $\chi^2/\text{NDF}: 75.3/63$

In: -58.284 ± 119.888 $\chi^2/\text{NDF}: 73.0/52$

Out: -343.704 ± 117.931 $\chi^2/\text{NDF}: 107.9/58$

All: -203.343 ± 84.073 $\chi^2/\text{NDF}: 183.8/111$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1195.906 $\pm$ 0.229 χ^2 /NDF: 4092595.9/29

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1214.971 $\pm$ 0.225 χ^2 /NDF: 5137513.7/33

Left In: 524.268 $\pm$ 0.091 χ^2 /NDF:1716257.3/22

Left: 526.539 $\pm$ 0.064 χ^2 /NDF: 3701172.5/47

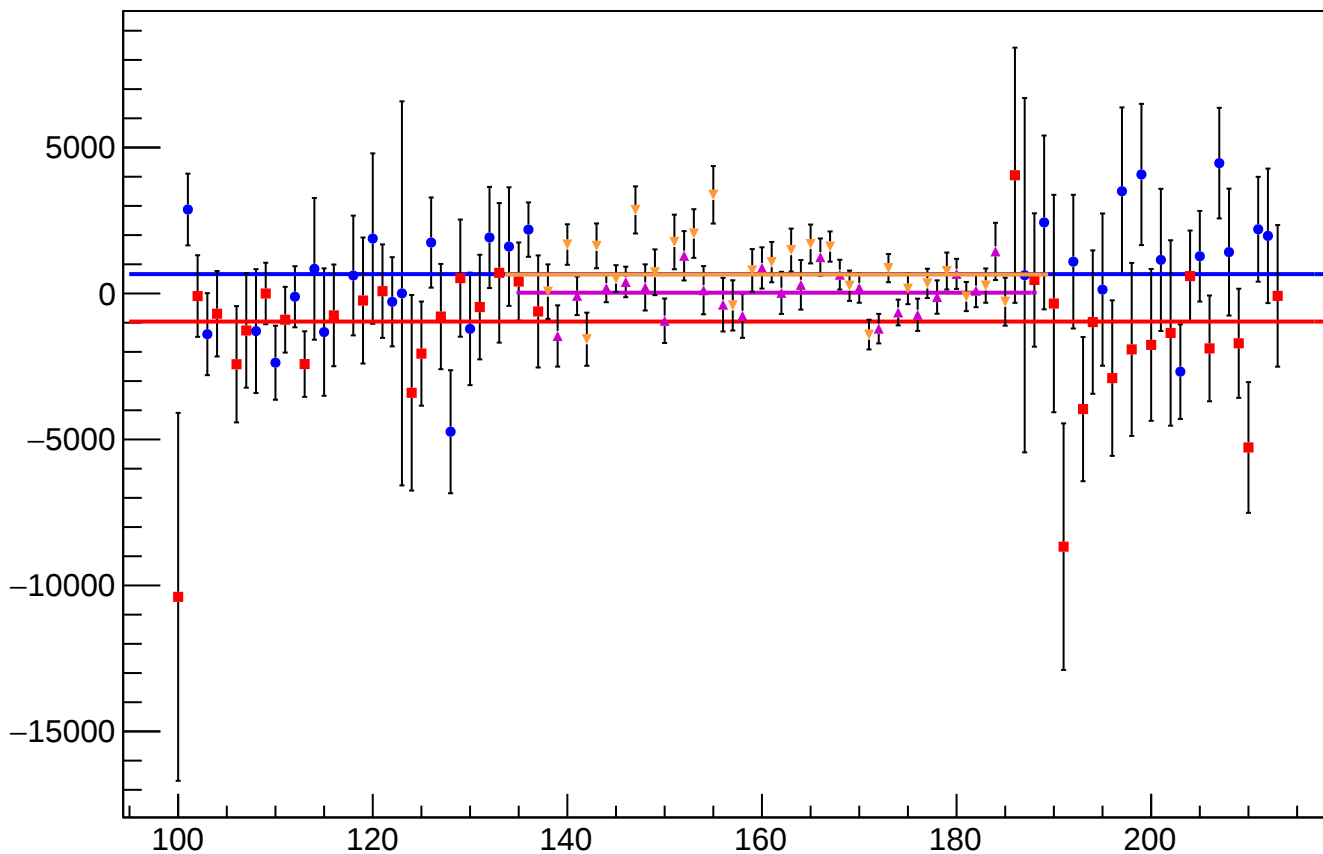
Right: 1205.593 $\pm$ 0.160 χ^2 /NDF: 9233643.9/63

In: 616.647 $\pm$ 0.085 χ^2 /NDF:13254853.3/52

Out: 623.064 $\pm$ 0.083 χ^2 /NDF:15150285.6/58

All: 619.908 $\pm$ 0.059 χ^2 /NDF: 28408050.4/111

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 663.559+/-324.778 χ^2/NDF : 38.4/29

Left Out: 651.560+/-127.961 χ^2/NDF : 61.1/24

Right Out: -961.400+/-319.688 χ^2/NDF : 21.9/33

Left In: 27.483+/-130.127 χ^2/NDF : 28.5/22

Left: 344.758+/-91.238 χ^2/NDF : 101.2/47

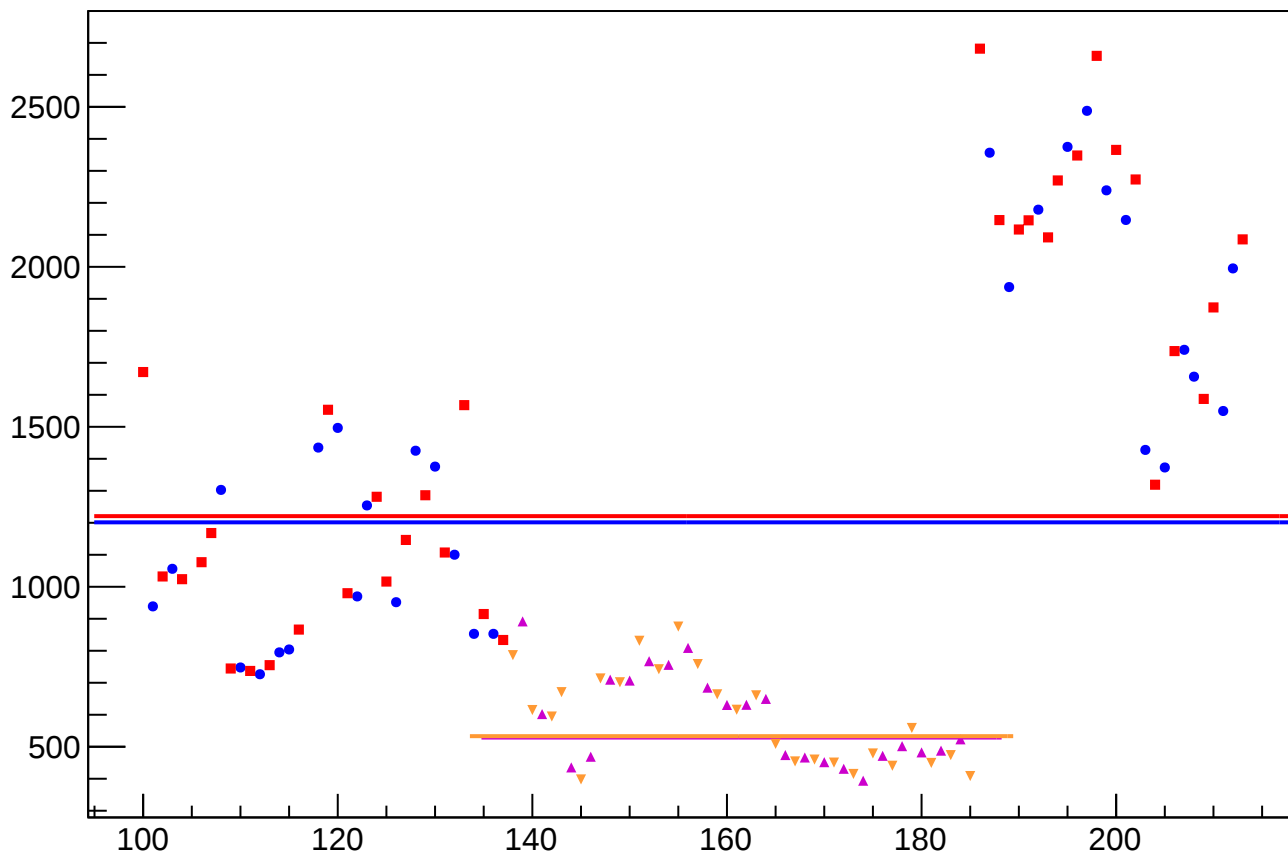
Right: -161.755+/-227.832 χ^2/NDF : 73.0/63

In: 115.469+/-120.792 χ^2/NDF : 70.1/52

Out: 428.825+/-118.798 χ^2/NDF : 105.0/58

All: 274.755+/-84.699 χ^2/NDF : 178.5/111

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1201.391 $\pm$ 0.230 χ^2 /NDF: 4098249.6/29

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF:1951536.4/24

Right Out: 1220.776 $\pm$ 0.226 χ^2 /NDF: 5144996.5/33

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

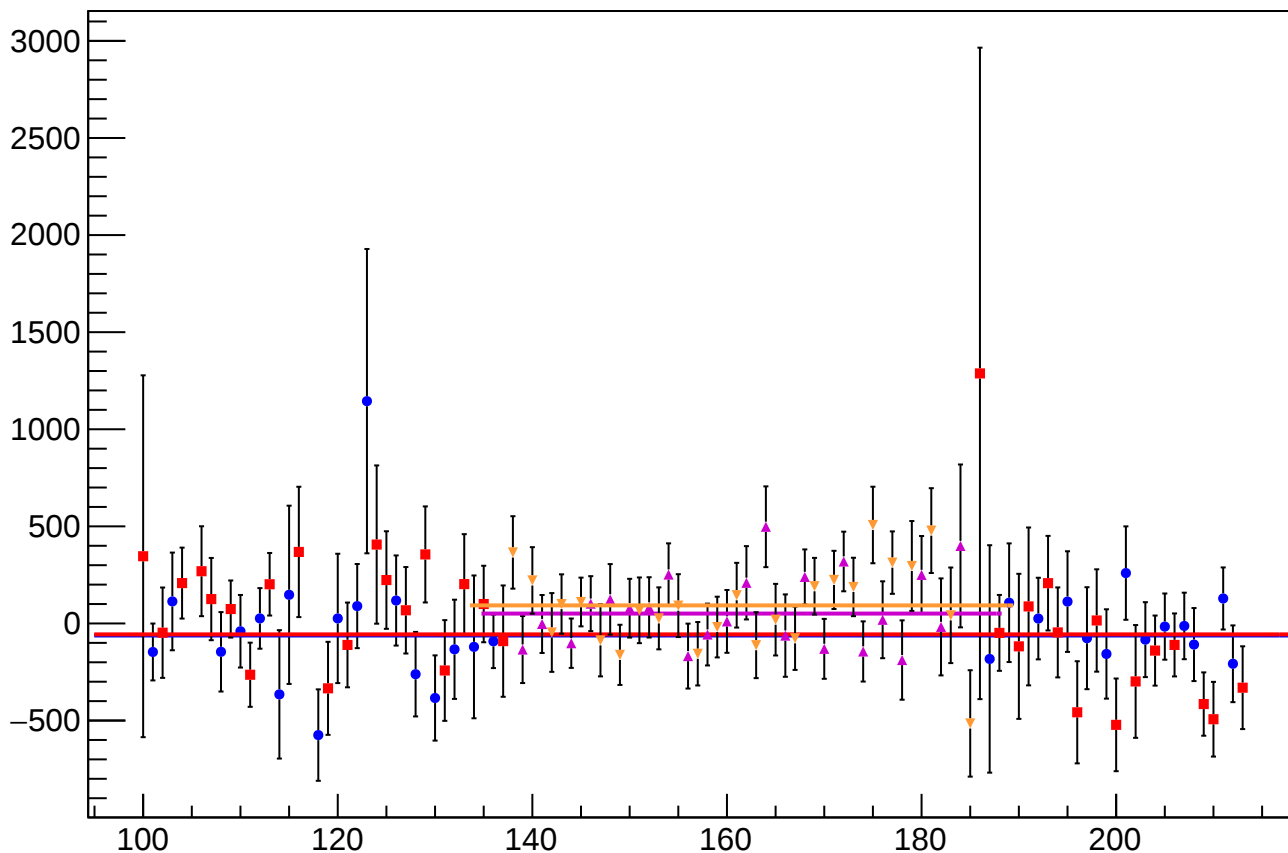
Right: 1211.236 $\pm$ 0.161 χ^2 /NDF: 9246865.0/63

In: 621.745 $\pm$ 0.085 χ^2 /NDF:13180045.1/52

Out: 628.028 $\pm$ 0.084 χ^2 /NDF:15073860.8/58

All: 624.939 $\pm$ 0.060 χ^2 /NDF: 28256656.0/11

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -61.948 ± 39.346 $\chi^2/\text{NDF}: 18.9/29$

Left Out: 92.994 ± 34.054 $\chi^2/\text{NDF}: 29.4/24$

Right Out: -56.315 ± 38.502 $\chi^2/\text{NDF}: 41.6/33$

Left In: 50.896 ± 35.280 $\chi^2/\text{NDF}: 23.5/22$

Left: 72.689 ± 24.502 $\chi^2/\text{NDF}: 53.6/47$

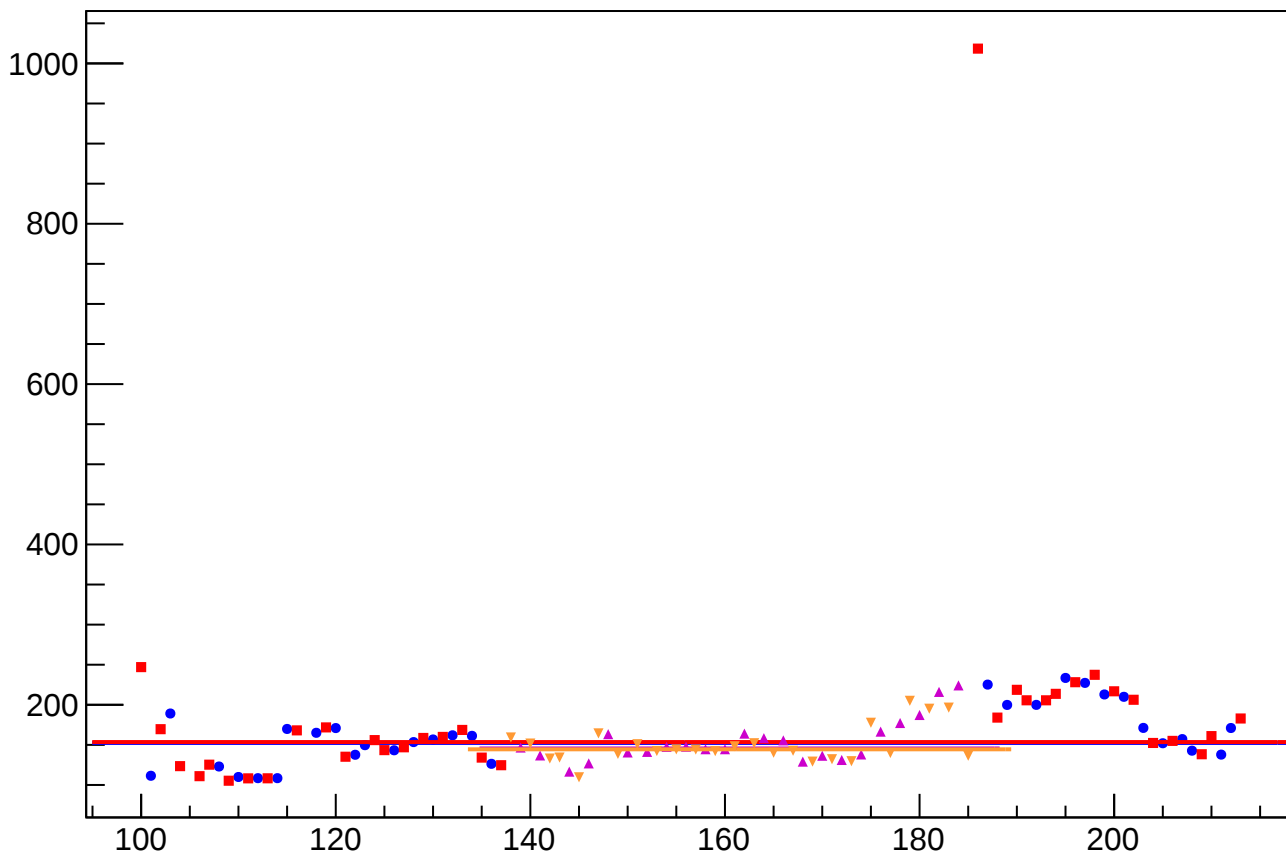
Right: -59.071 ± 27.519 $\chi^2/\text{NDF}: 60.5/63$

In: 0.604 ± 26.267 $\chi^2/\text{NDF}: 46.9/52$

Out: 27.459 ± 25.508 $\chi^2/\text{NDF}: 79.5/58$

All: 14.425 ± 18.299 $\chi^2/\text{NDF}: 126.9/111$

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 152.431 $\pm$ 0.028 χ^2 /NDF: 1493329.9/29

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 153.524 $\pm$ 0.027 χ^2 /NDF: 2322637.7/33

Left In: 145.535 $\pm$ 0.025 χ^2 /NDF: 643529.3/22

Left: 144.986 $\pm$ 0.017 χ^2 /NDF: 1314951.6/47

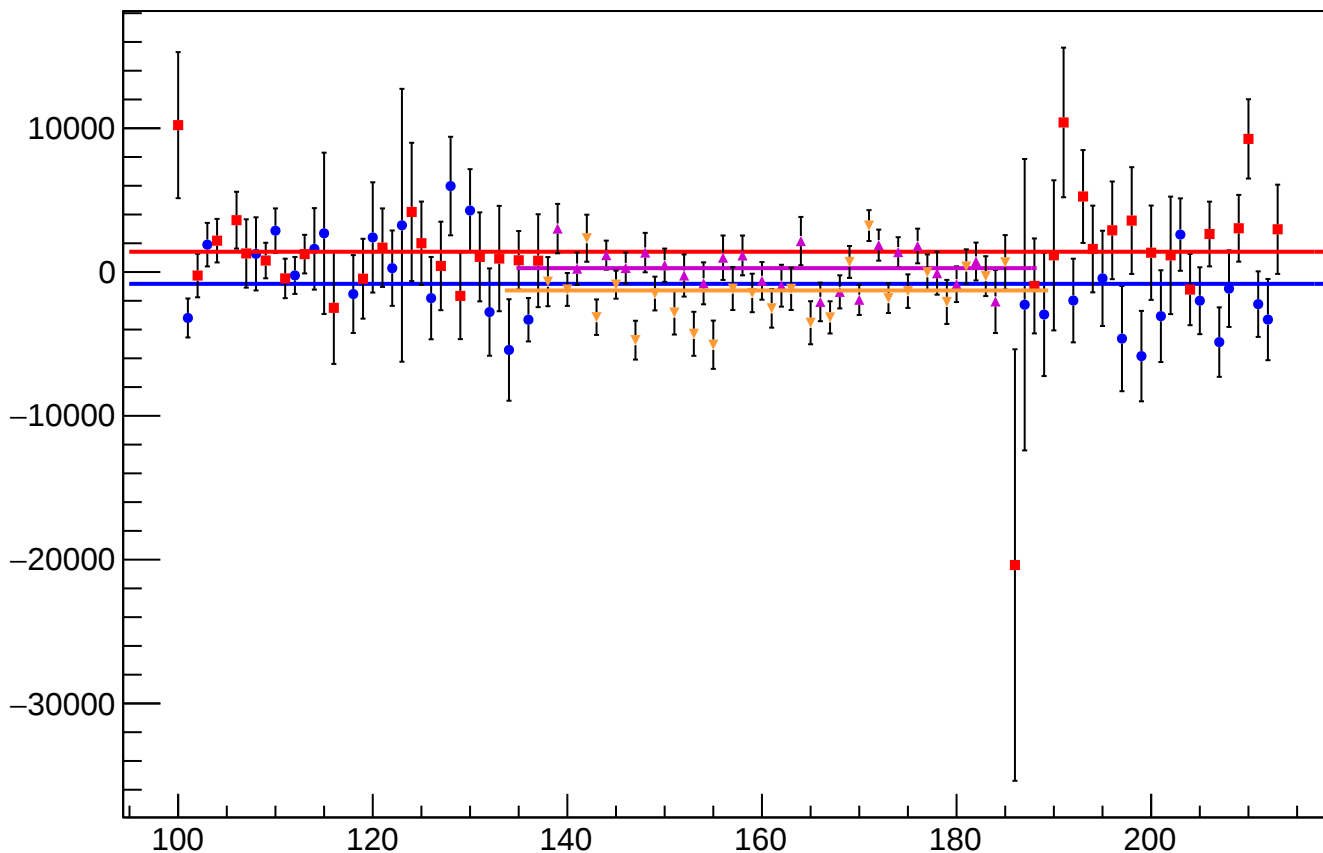
Right: 152.990 $\pm$ 0.019 χ^2 /NDF: 3816755.6/63

In: 148.608 $\pm$ 0.019 χ^2 /NDF: 2170921.7/52

Out: 148.447 $\pm$ 0.018 χ^2 /NDF: 3055109.1/58

All: 148.525 $\pm$ 0.013 χ^2 /NDF: 5226069.7/111

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -821.033+/-440.638 χ^2/NDF : 37.8/29

Left Out: -1279.328+/-259.299 χ^2/NDF :55.9/24

Right Out: 1411.791+/-415.896 χ^2/NDF : 28.8/33

Left In: 269.952+/-266.245 χ^2/NDF :24.3/22

Left: -525.161+/-185.759 χ^2/NDF : 97.6/47

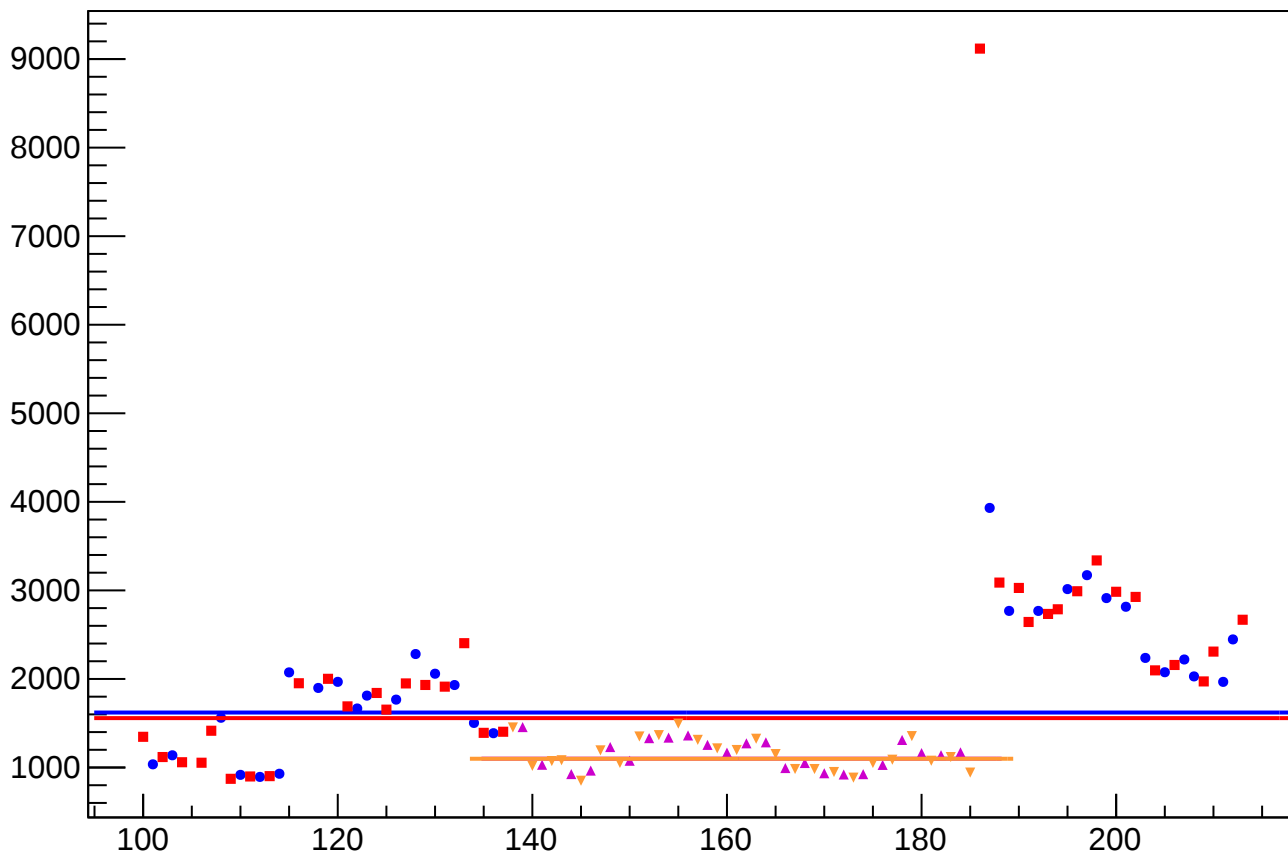
Right: 359.823+/-302.452 χ^2/NDF : 80.2/63

In: -21.829+/-227.877 χ^2/NDF :66.6/52

Out: -526.056+/-220.036 χ^2/NDF :114.9/58

All: -282.767+/-158.289 χ^2/NDF : 184.0/111

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1620.946 $\pm$ 0.312 χ^2 /NDF: 4470586.7/29

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1557.788 $\pm$ 0.294 χ^2 /NDF: 6284857.9/33

Left In: 1099.585 $\pm$ 0.188 χ^2 /NDF: 679896.1/22

Left: 1099.238 $\pm$ 0.131 χ^2 /NDF: 1504231.4/47

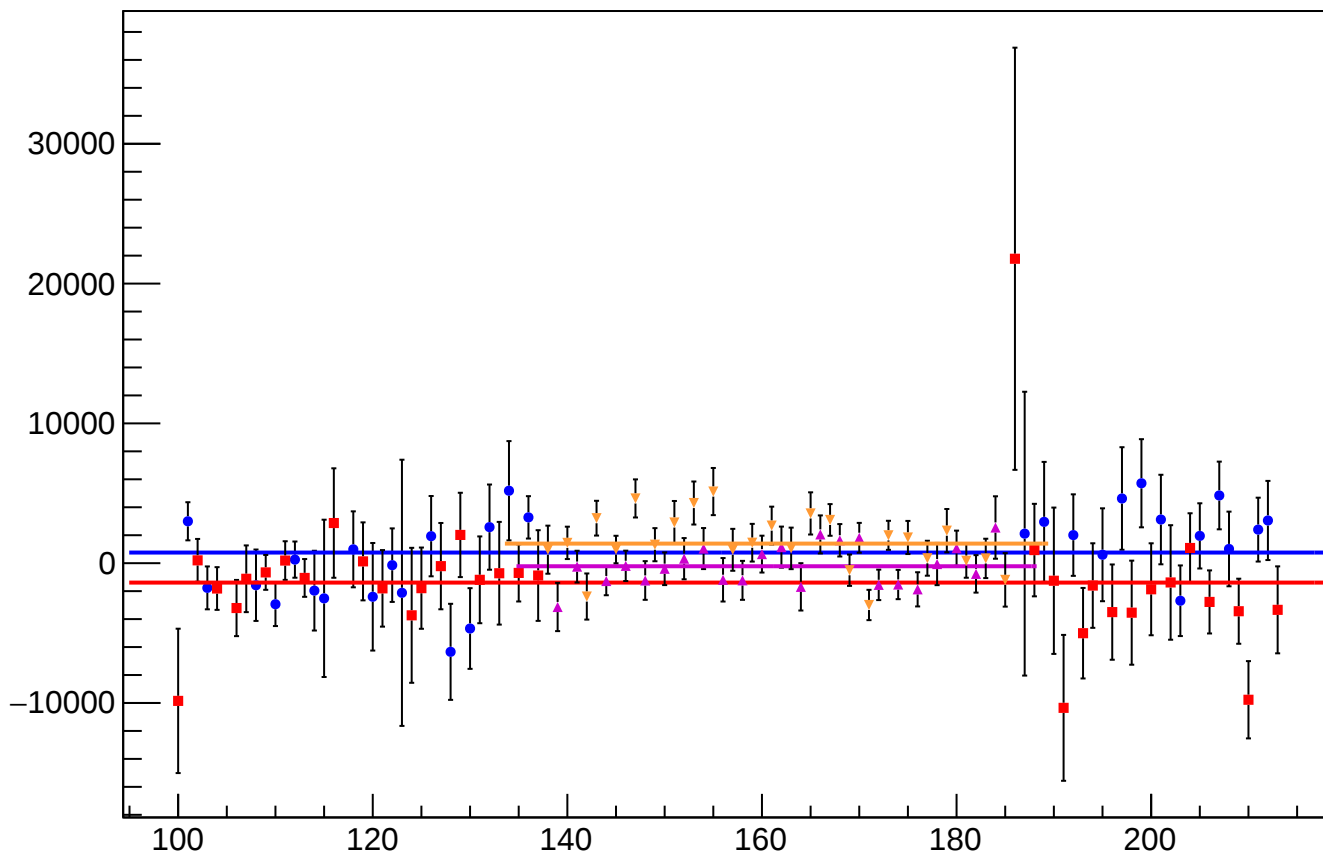
Right: 1587.544 $\pm$ 0.214 χ^2 /NDF: 10777175.1/63

In: 1239.022 $\pm$ 0.161 χ^2 /NDF: 7201560.3/52

Out: 1227.354 $\pm$ 0.156 χ^2 /NDF: 8862434.4/58

All: 1232.984 $\pm$ 0.112 χ^2 /NDF: 16066708.2/112

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 760.323+/-443.013 χ^2/NDF : 37.5/29

Left Out: 1400.458+/-261.804 χ^2/NDF : 52.2/24

Right Out: -1388.254+/-418.555 χ^2/NDF : 29.3/33

Left In: -219.393+/-268.852 χ^2/NDF : 25.0/22

Left: 612.044+/-187.566 χ^2/NDF : 95.9/47

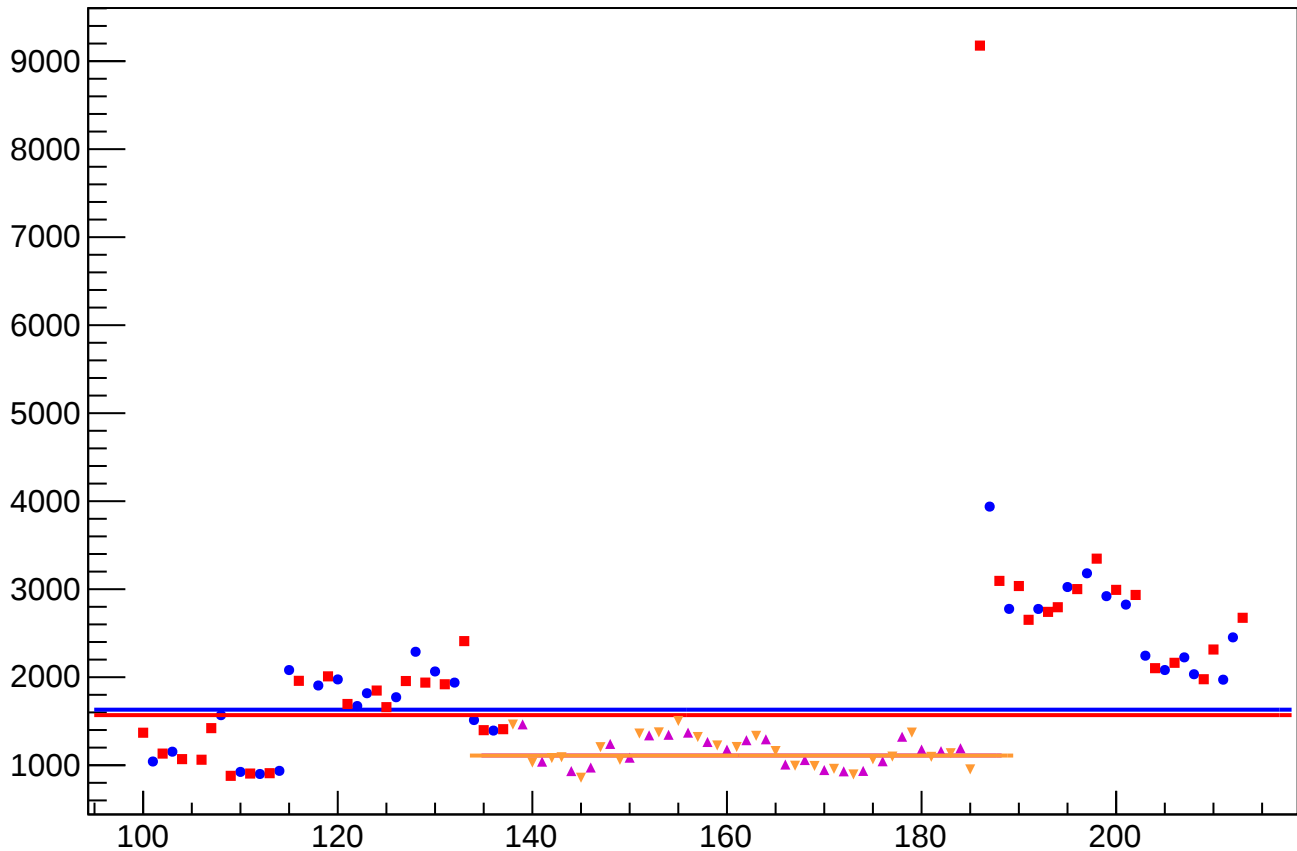
Right: -374.911+/-304.242 χ^2/NDF : 79.2/63

In: 44.310+/-229.839 χ^2/NDF : 66.1/52

Out: 616.219+/-221.960 χ^2/NDF : 113.4/58

All: 340.235+/-159.662 χ^2/NDF : 182.7/111

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1631.100+/-0.313 χ^2/NDF : 4424747.1/29

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1569.184+/-0.296 χ^2/NDF : 6223966.3/33

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

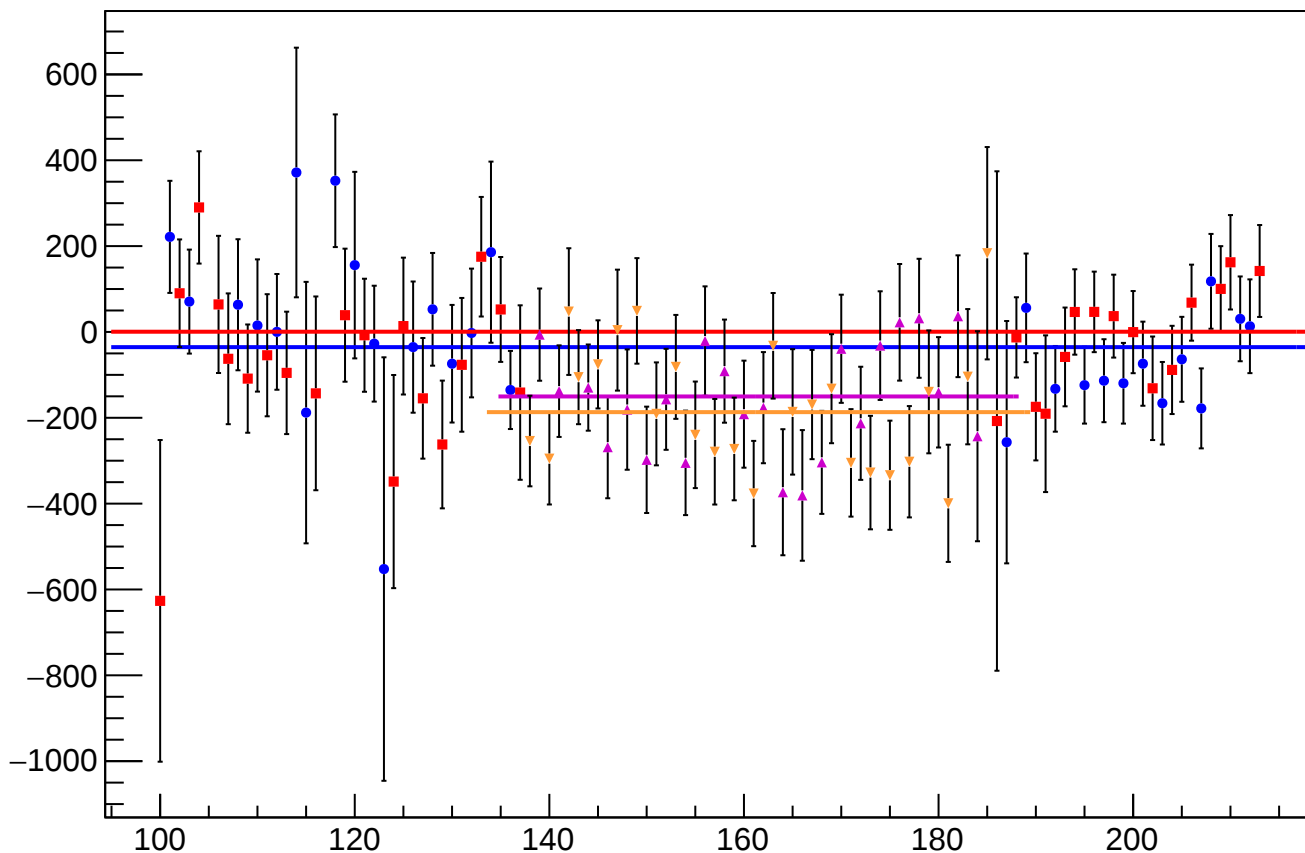
Right: 1598.386+/-0.215 χ^2/NDF : 10669354.6/63

In: 1250.657+/-0.163 χ^2/NDF : 7112840.2/52

Out: 1238.960+/-0.157 χ^2/NDF : 8768139.6/58

All: 1244.604+/-0.113 χ^2/NDF : 15883660.0/113

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -35.411 ± 22.523 $\chi^2/\text{NDF}: 30.0/29$

Left Out: -186.838 ± 25.308 $\chi^2/\text{NDF}: 26.6/24$

Right Out: 0.529 ± 21.788 $\chi^2/\text{NDF}: 30.7/33$

Left In: -150.315 ± 26.445 $\chi^2/\text{NDF}: 20.7/22$

Left: -169.379 ± 18.284 $\chi^2/\text{NDF}: 48.3/47$

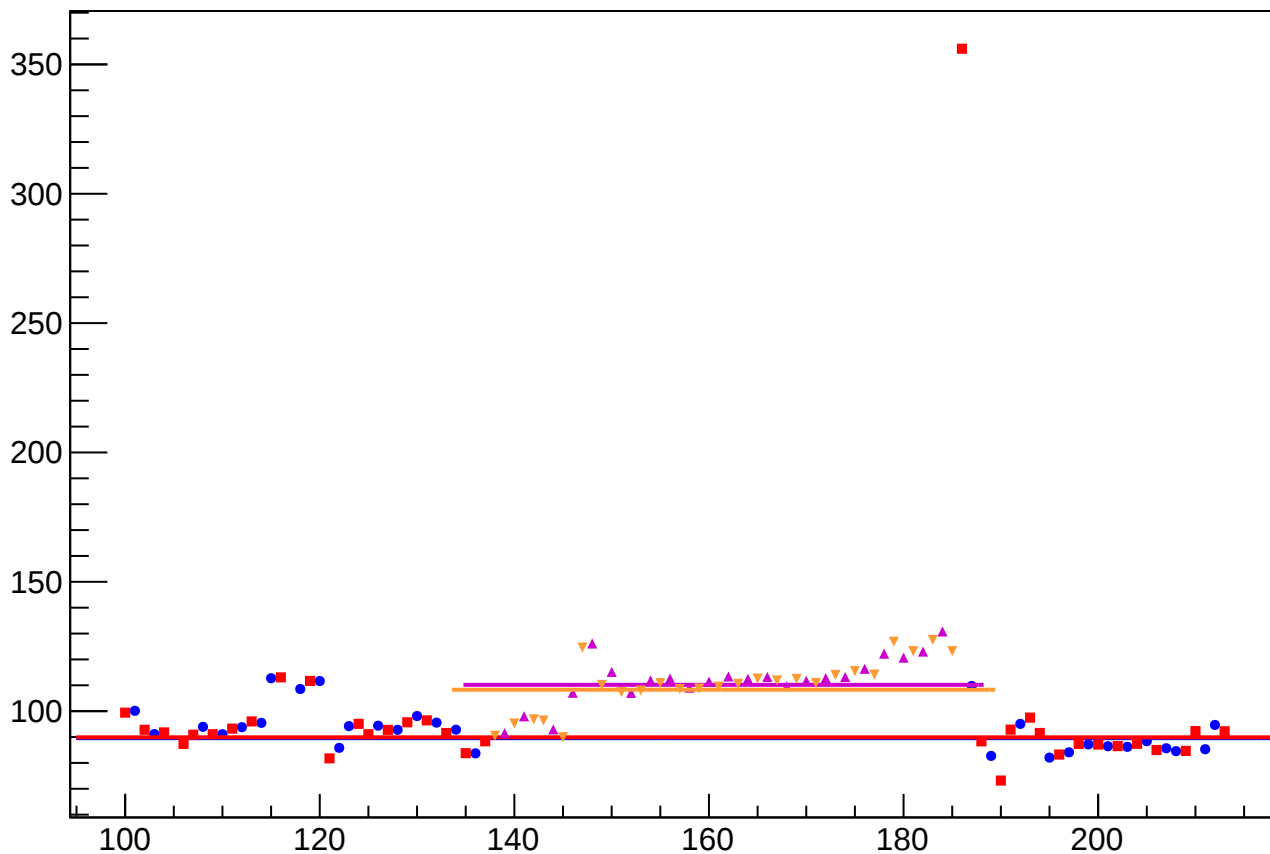
Right: -16.845 ± 15.660 $\chi^2/\text{NDF}: 62.0/63$

In: -83.719 ± 17.147 $\chi^2/\text{NDF}: 61.6/52$

Out: -79.226 ± 16.512 $\chi^2/\text{NDF}: 88.8/58$

All: -81.388 ± 11.894 $\chi^2/\text{NDF}: 150.4/111$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.564 $\pm$ 0.016 χ^2 /NDF: 169726.6/29

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 89.893 $\pm$ 0.015 χ^2 /NDF: 584969.6/33

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

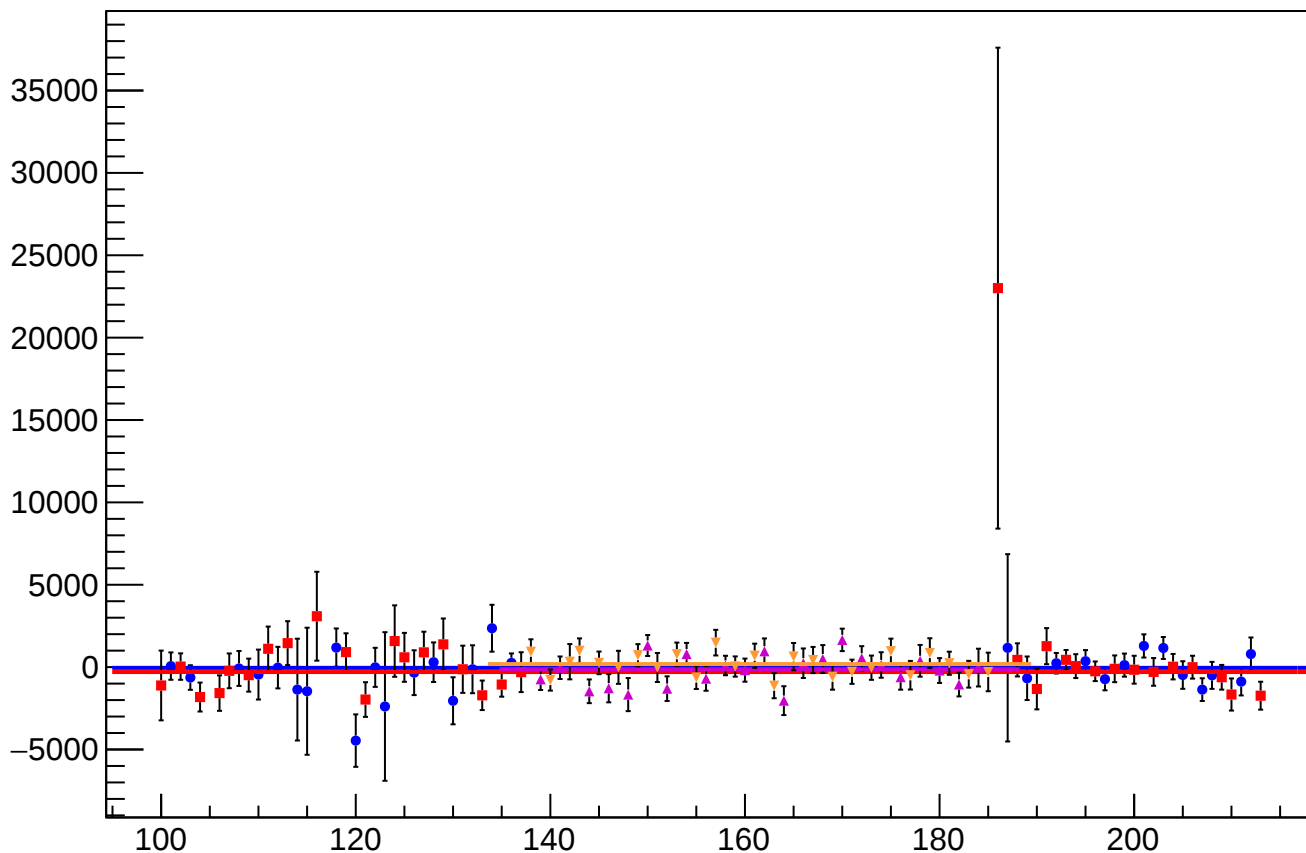
Right: 89.734 $\pm$ 0.011 χ^2 /NDF: 754916.8/63

In: 98.229 $\pm$ 0.012 χ^2 /NDF: 1120682.5/52

Out: 97.723 $\pm$ 0.012 χ^2 /NDF: 1522441.5/58

All: 97.966 $\pm$ 0.008 χ^2 /NDF: 2644026.1/111

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -44.272 ± 170.643 χ^2/NDF : 30.1/29

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -298.646 ± 164.309 χ^2/NDF : 32.6/33

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

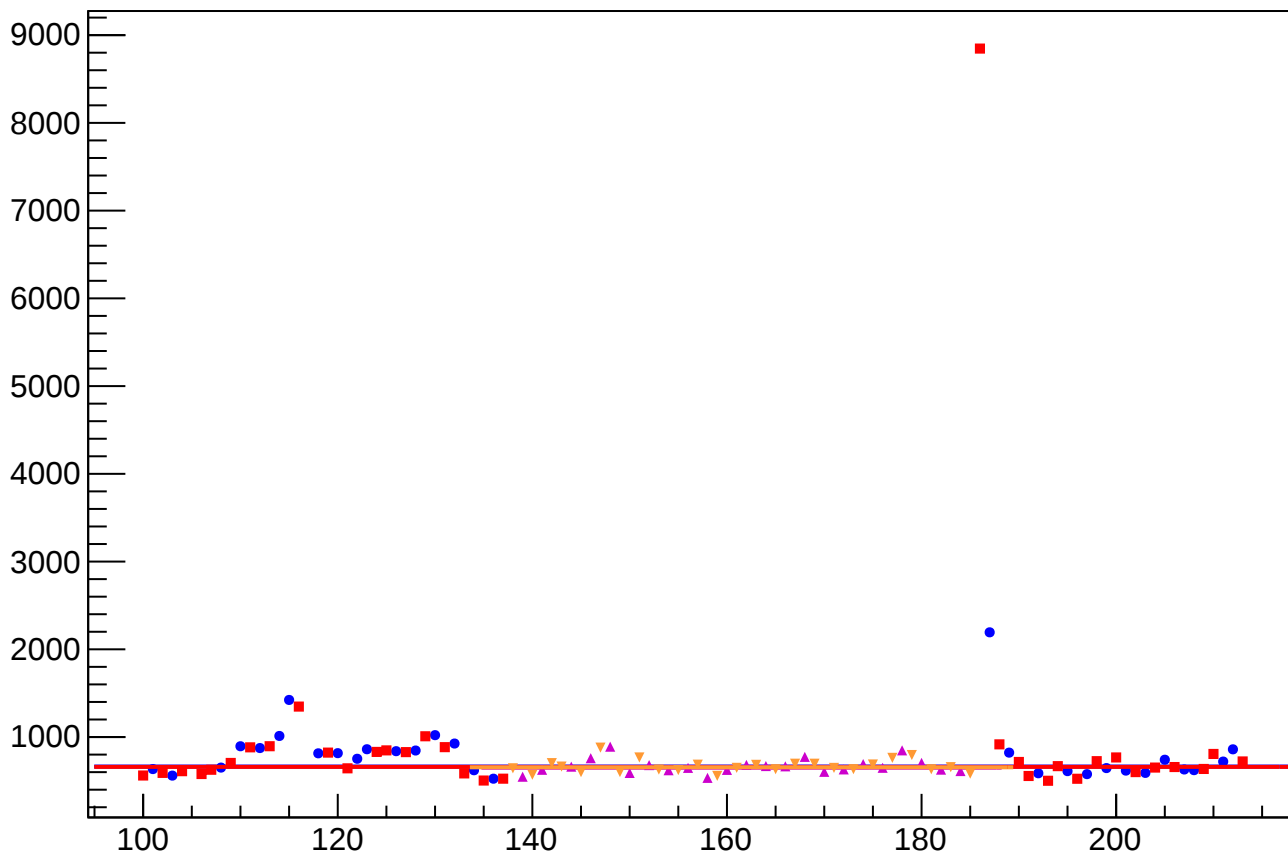
Right: -176.267 ± 118.360 χ^2/NDF : 63.8/63

In: -89.998 ± 115.600 χ^2/NDF : 66.4/52

Out: -40.471 ± 112.239 χ^2/NDF : 55.6/58

All: -64.504 ± 80.527 χ^2/NDF : 122.1/111

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 663.938+/-0.121 χ^2/NDF : 1097344.5/29

Left Out: 655.155+/-0.109 χ^2/NDF : 367349.8/24

Right Out: 659.976+/-0.116 χ^2/NDF : 1826552.2/33

Left In: 650.883+/-0.111 χ^2/NDF : 466116.8/22

Left: 653.067+/-0.078 χ^2/NDF : 834222.1/47

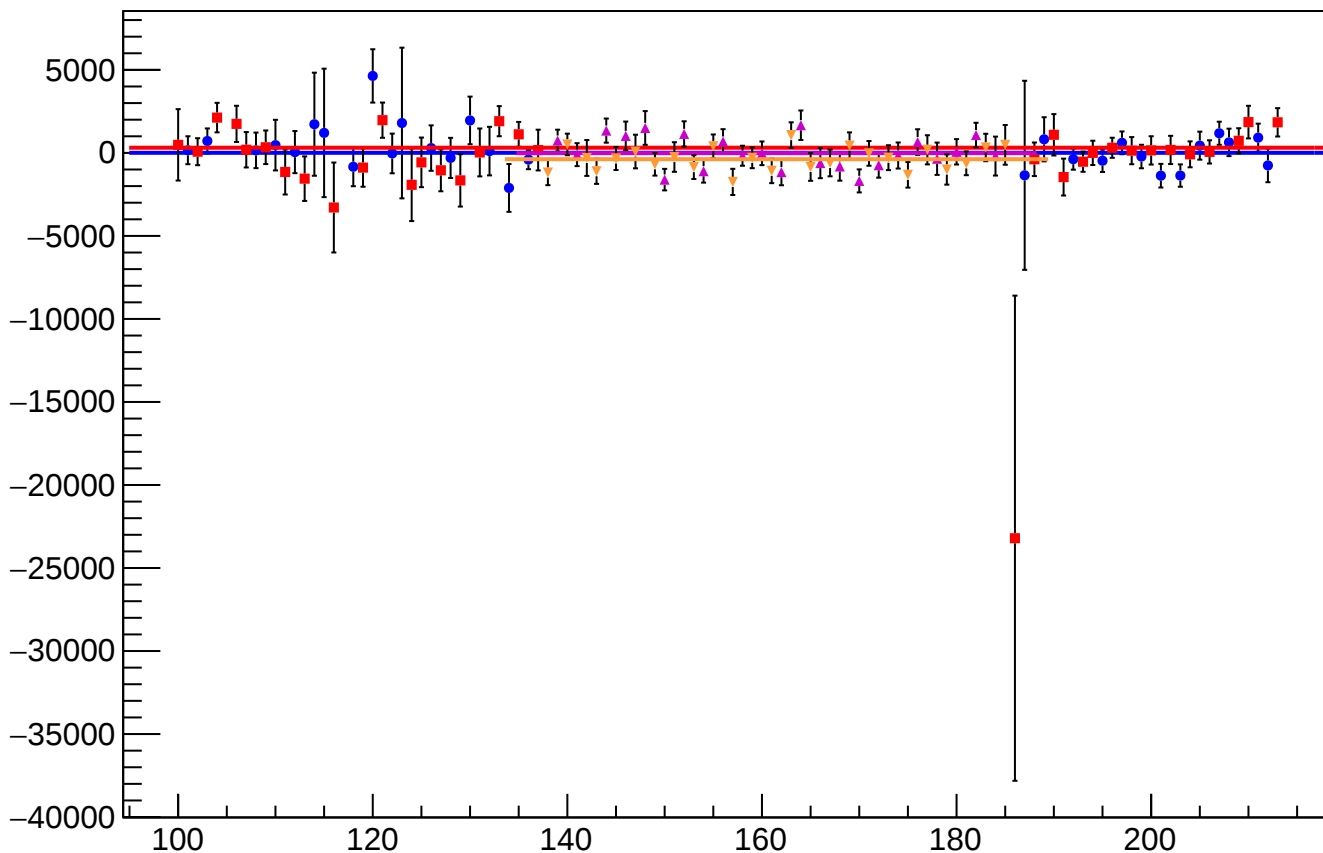
Right: 661.882+/-0.084 χ^2/NDF : 2924456.1/63

In: 656.874+/-0.082 χ^2/NDF : 1569794.6/52

Out: 657.405+/-0.079 χ^2/NDF : 2194820.2/58

All: 657.147+/-0.057 χ^2/NDF : 3764636.5/111

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 5.985 ± 172.334 χ^2/NDF : 30.5/29

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 311.336 ± 166.031 χ^2/NDF : 37.4/33

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

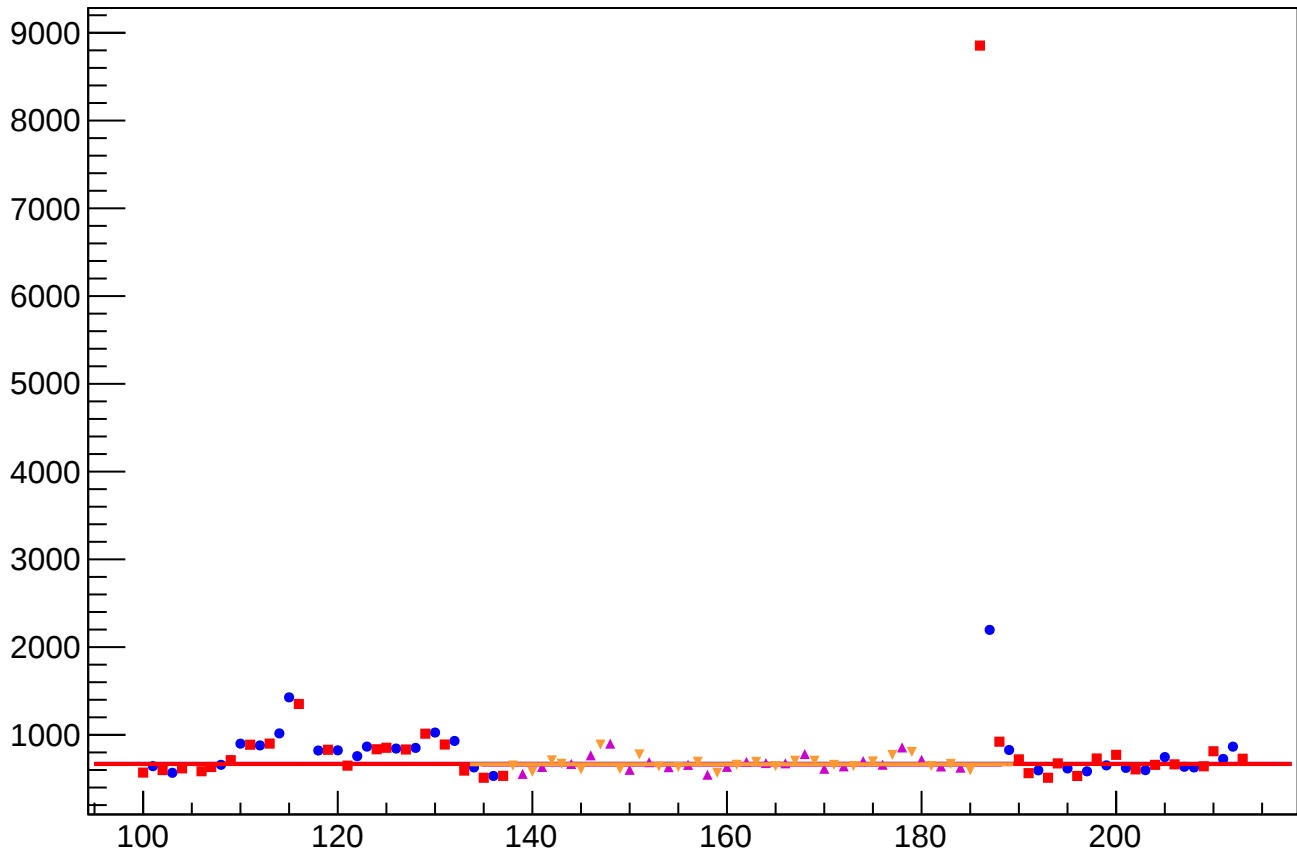
Right: 164.346 ± 119.568 χ^2/NDF : 69.6/63

In: -5.192 ± 117.063 χ^2/NDF : 67.7/52

Out: -55.803 ± 113.648 χ^2/NDF : 65.4/58

All: -31.246 ± 81.542 χ^2/NDF : 133.3/111

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 670.932 $\pm$ 0.122 χ^2 /NDF: 1072446.7/29

Left Out: 664.773 $\pm$ 0.110 χ^2 /NDF: 357053.8/24

Right Out: 667.455 $\pm$ 0.117 χ^2 /NDF: 1788076.5/33

Left In: 660.890 $\pm$ 0.113 χ^2 /NDF: 449180.0/22

Left: 662.876 $\pm$ 0.079 χ^2 /NDF: 806839.8/47

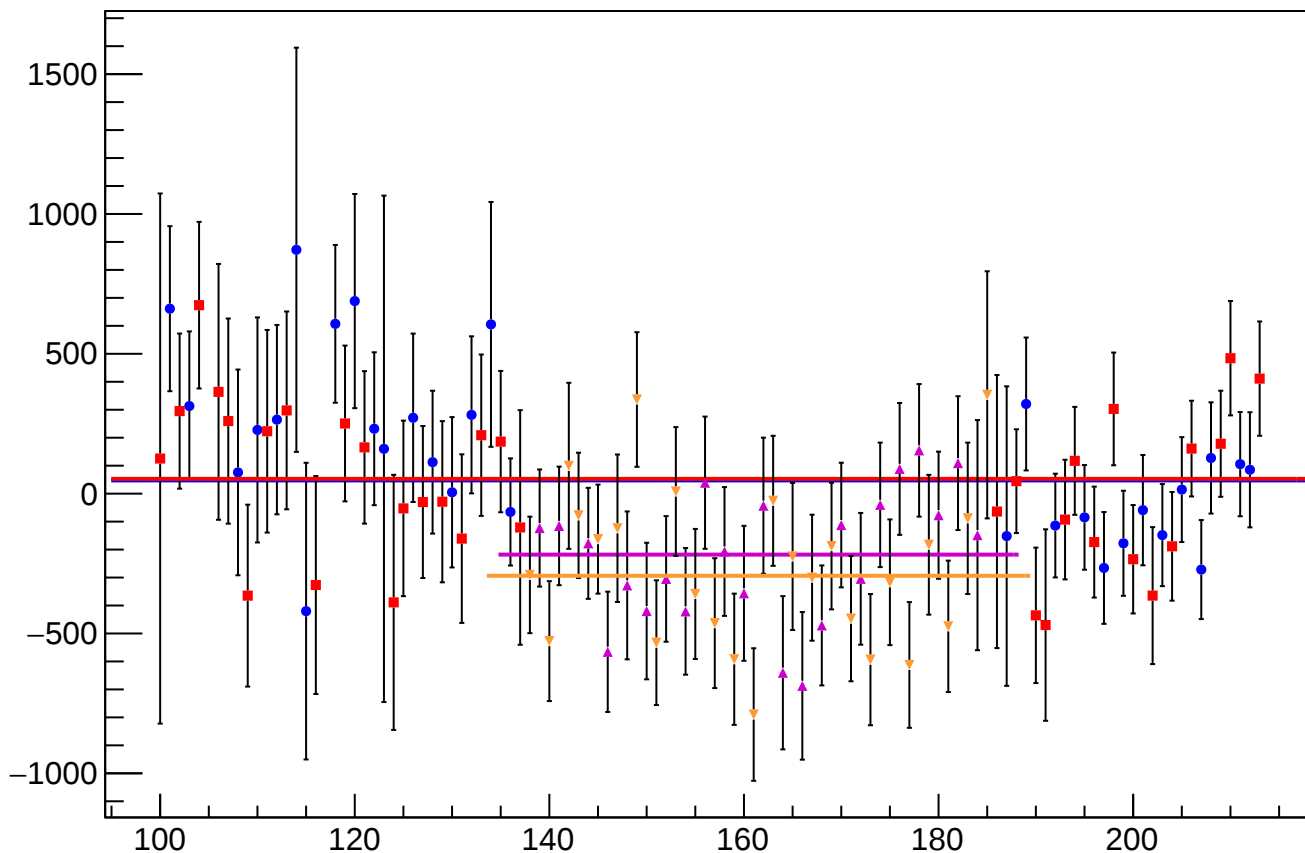
Right: 669.129 $\pm$ 0.085 χ^2 /NDF: 2860945.3/63

In: 665.524 $\pm$ 0.083 χ^2 /NDF: 1525283.8/52

Out: 666.029 $\pm$ 0.080 χ^2 /NDF: 2145407.8/58

All: 665.784 $\pm$ 0.058 χ^2 /NDF: 3670710.9/111

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



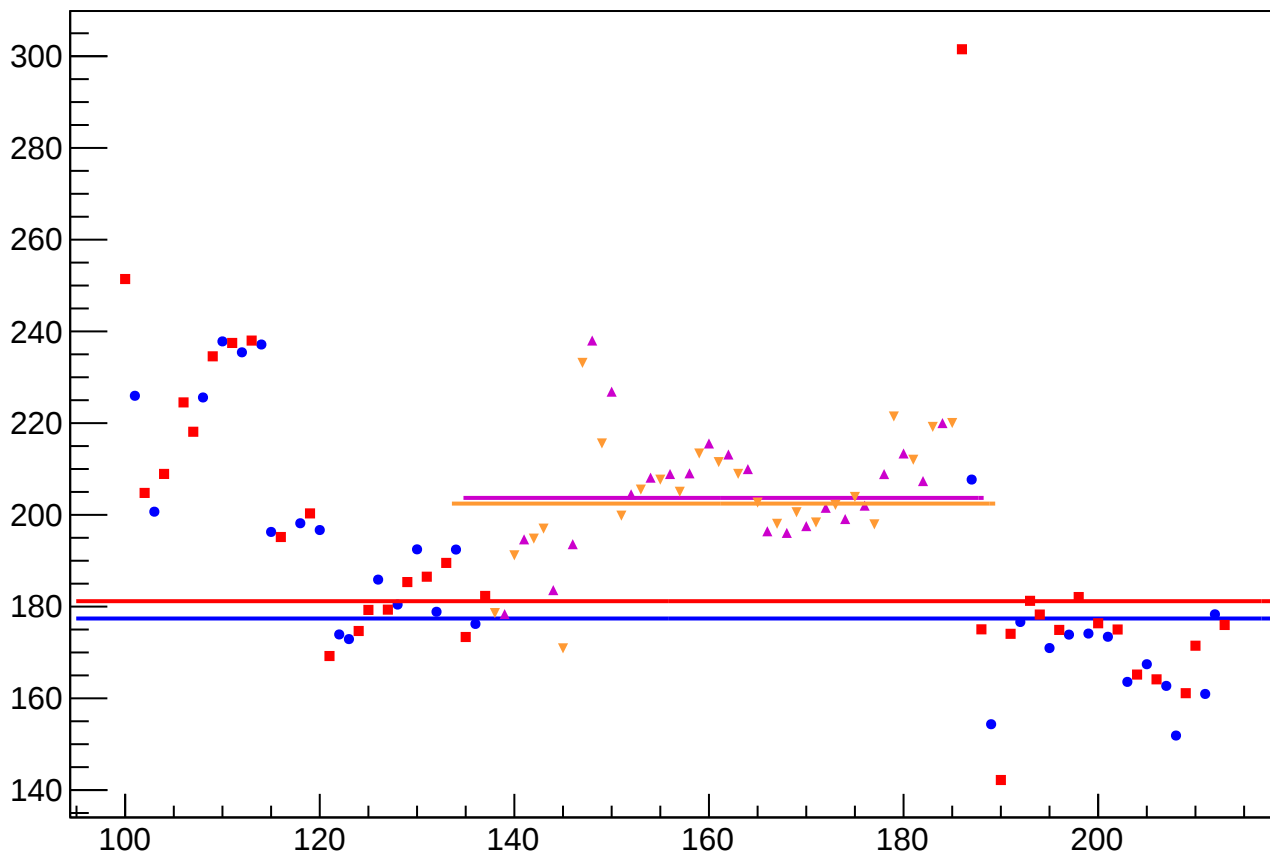
Right In: 47.342 ± 44.785 $\chi^2/\text{NDF}: 30.2/29$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 52.863 ± 43.950 $\chi^2/\text{NDF}: 37.2/33$
 Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$
 Right: 50.154 ± 31.368 $\chi^2/\text{NDF}: 67.4/63$

In: -73.898 ± 33.002 $\chi^2/\text{NDF}: 67.5/52$
 Out: -108.018 ± 32.166 $\chi^2/\text{NDF}: 96.4/58$

All: -91.395 ± 23.035 $\chi^2/\text{NDF}: 164.4/111$

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 177.405 $\pm$ 0.032 χ^2 /NDF: 359796.8/29

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 181.181 $\pm$ 0.031 χ^2 /NDF: 498905.6/33

Left In: 203.699 $\pm$ 0.035 χ^2 /NDF:136193.4/22

Left: 203.058 $\pm$ 0.024 χ^2 /NDF: 295442.7/47

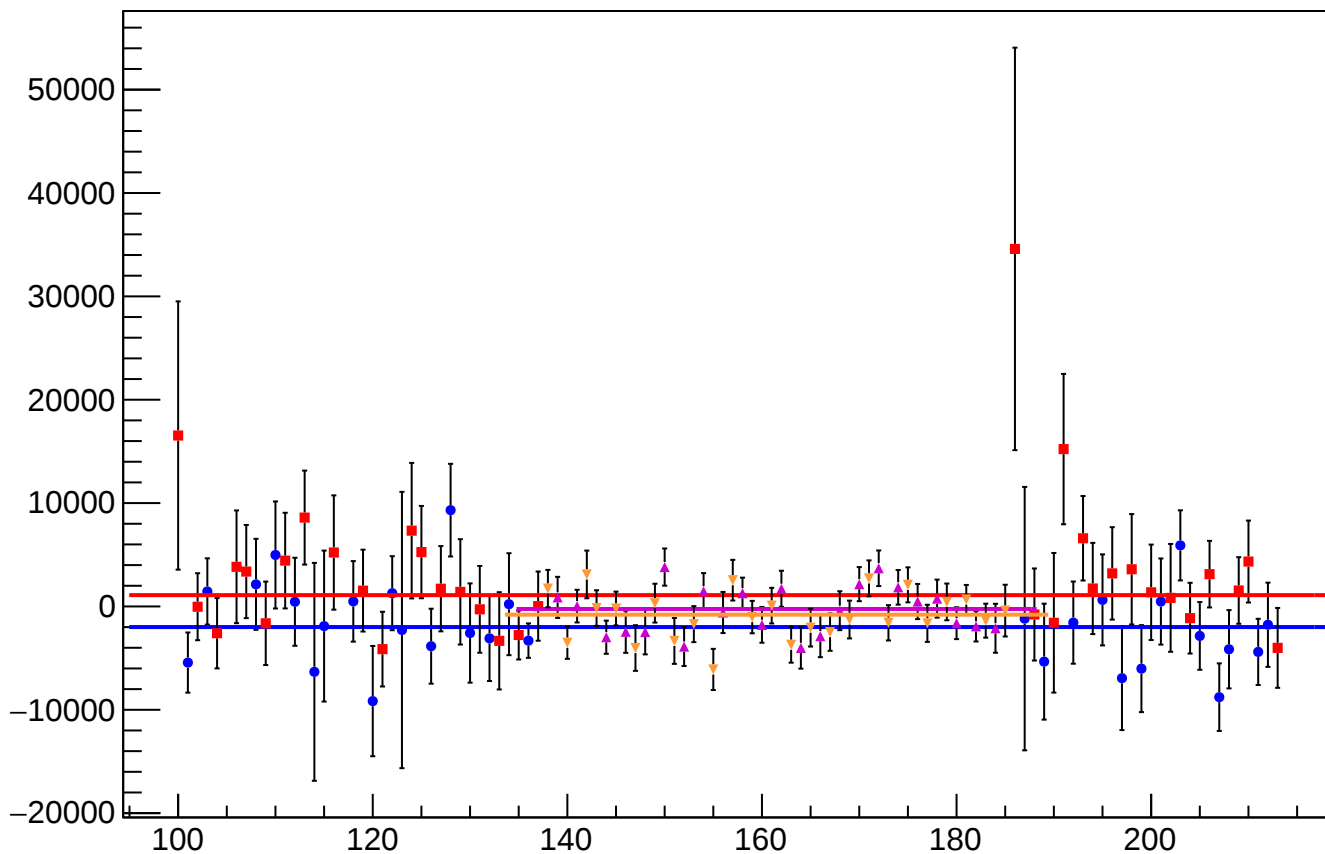
Right: 179.328 $\pm$ 0.022 χ^2 /NDF: 865945.3/63

In: 189.421 $\pm$ 0.023 χ^2 /NDF:811039.9/52

Out: 191.062 $\pm$ 0.023 χ^2 /NDF:875163.6/58

All: 190.262 $\pm$ 0.016 χ^2 /NDF: 1688739.3/111

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1994.628 $\pm$ 705.598 χ^2 /NDF: 30.0/29

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF: 35.7/24

Right Out: 1094.673 $\pm$ 721.170 χ^2 /NDF: 27.7/33

Left In: -245.102 $\pm$ 369.846 χ^2 /NDF: 35.7/22

Left: -529.902 $\pm$ 257.175 χ^2 /NDF: 72.6/47

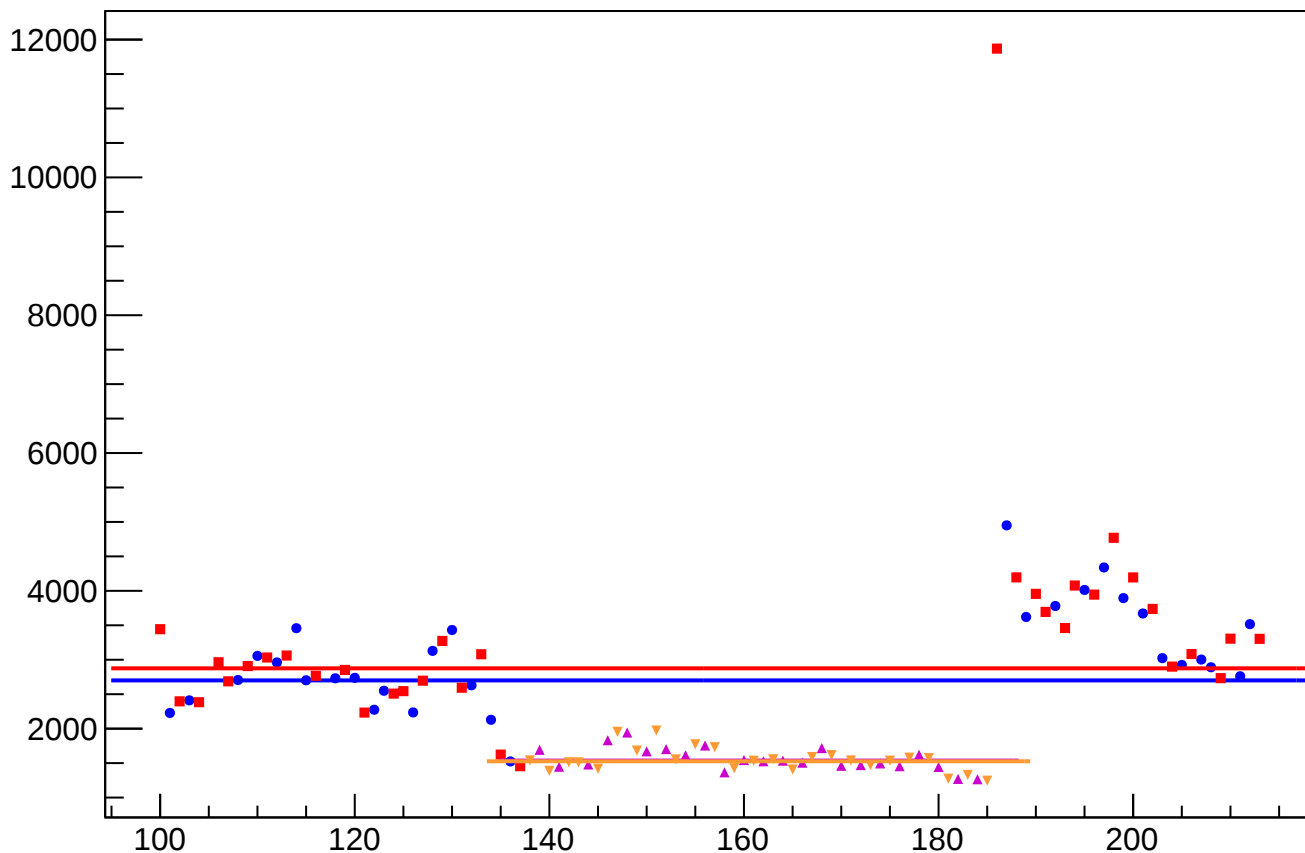
Right: -483.691 $\pm$ 504.349 χ^2 /NDF: 67.1/63

In: -622.175 $\pm$ 327.574 χ^2 /NDF: 70.5/52

Out: -422.873 $\pm$ 320.556 χ^2 /NDF: 69.0/58

All: -520.366 $\pm$ 229.108 χ^2 /NDF: 139.7/111

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2700.262 $\pm$ 0.499 χ^2 /NDF: 2300378.4/29

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2875.412 $\pm$ 0.510 χ^2 /NDF: 2641340.1/33

Left In: 1536.538 $\pm$ 0.262 χ^2 /NDF: 350373.3/22

Left: 1531.463 $\pm$ 0.182 χ^2 /NDF: 745995.2/47

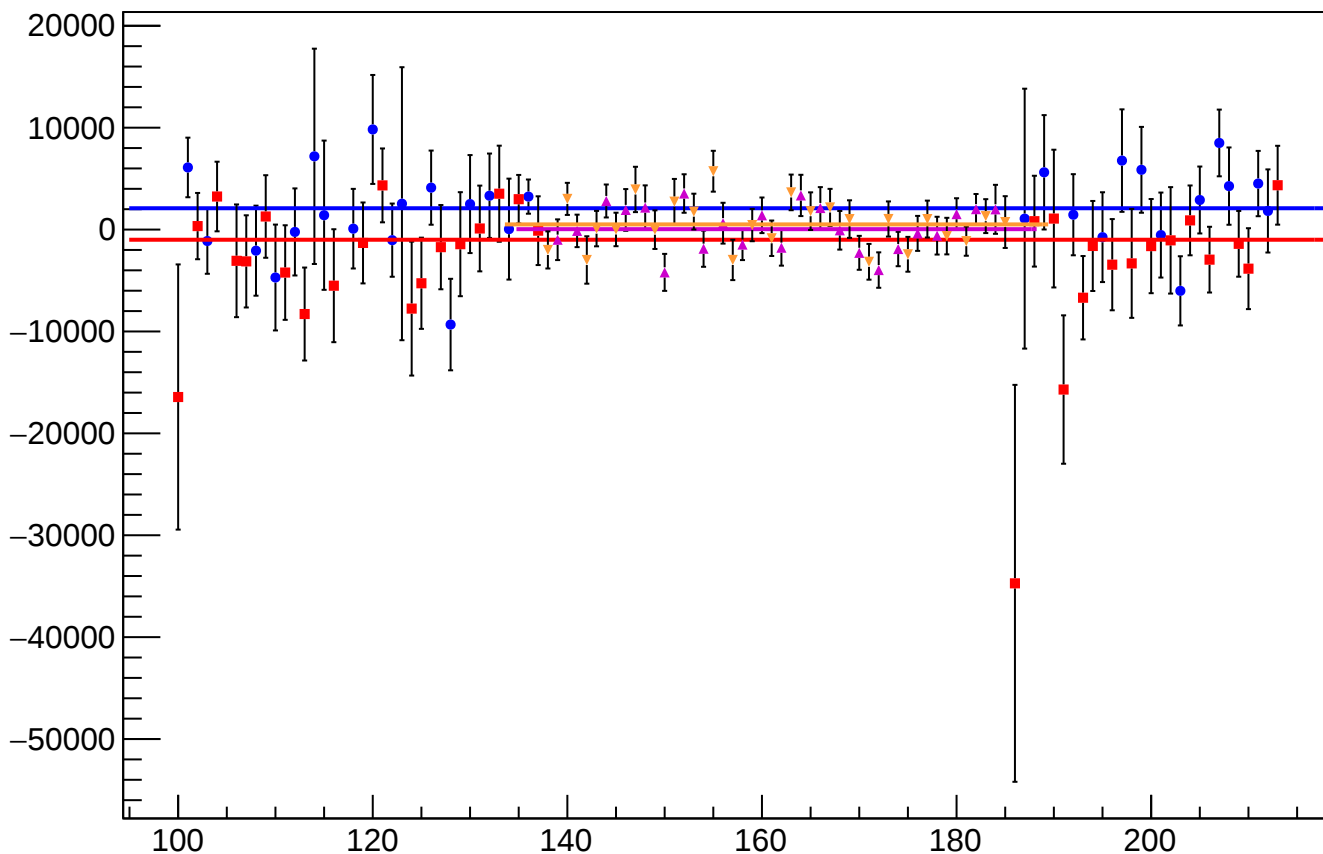
Right: 2785.925 $\pm$ 0.357 χ^2 /NDF: 5001991.1/63

In: 1787.353 $\pm$ 0.232 χ^2 /NDF: 6918437.6/52

Out: 1793.182 $\pm$ 0.227 χ^2 /NDF: 8649156.8/58

All: 1790.331 $\pm$ 0.162 χ^2 /NDF: 15567917.8/110

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2093.754+/-707.839 χ^2/NDF : 30.0/29

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -997.669+/-723.296 χ^2/NDF : 28.4/33

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

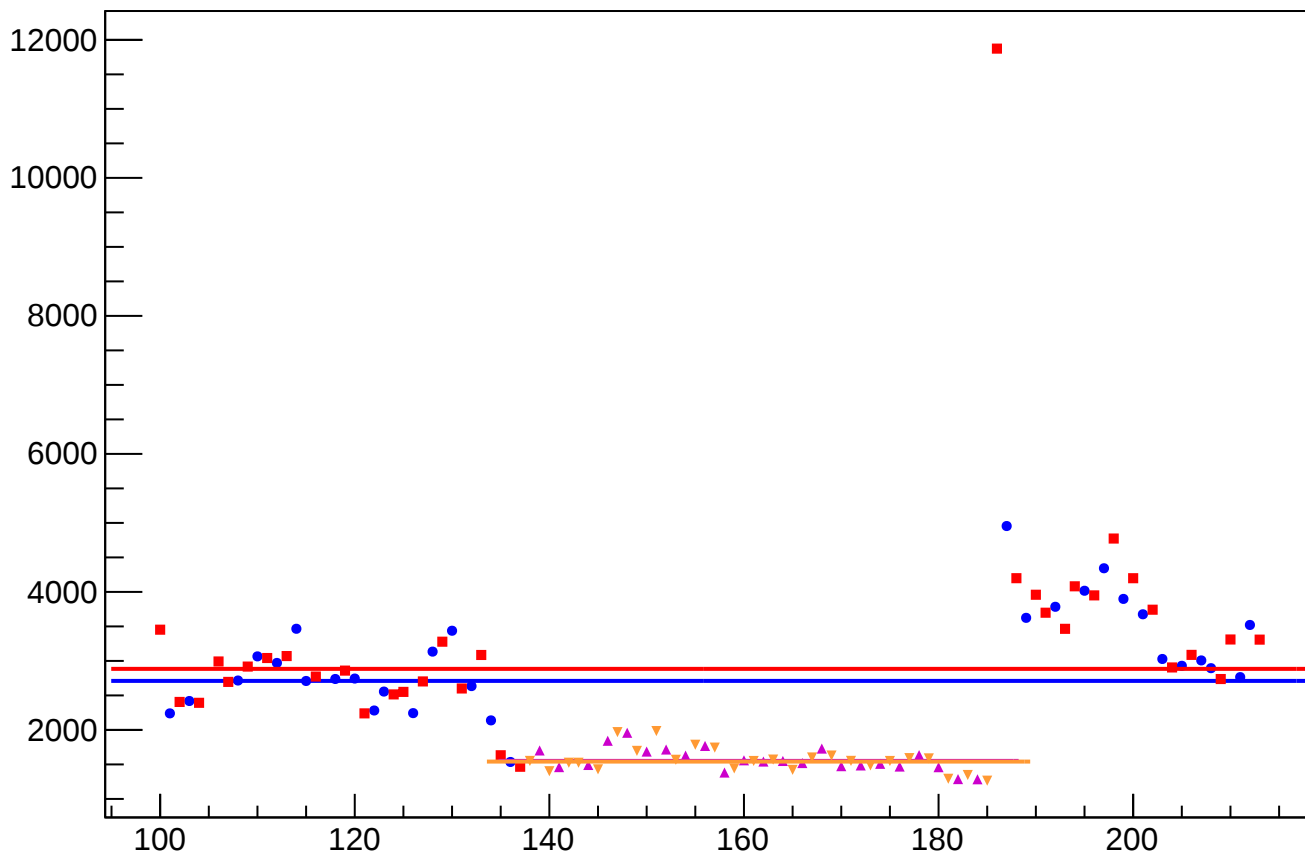
Right: 581.429+/-505.894 χ^2/NDF : 67.8/63

In: 486.900+/-330.168 χ^2/NDF : 70.2/52

Out: 207.485+/-323.127 χ^2/NDF : 67.3/58

All: 344.182+/-230.935 χ^2/NDF : 137.8/111

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2710.402 $\pm$ 0.501 χ^2 /NDF: 2268217.4/29

Left Out: 1541.258 $\pm$ 0.255 χ^2 /NDF: 382045.4/24

Right Out: 2884.873 $\pm$ 0.511 χ^2 /NDF: 2615213.9/33

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

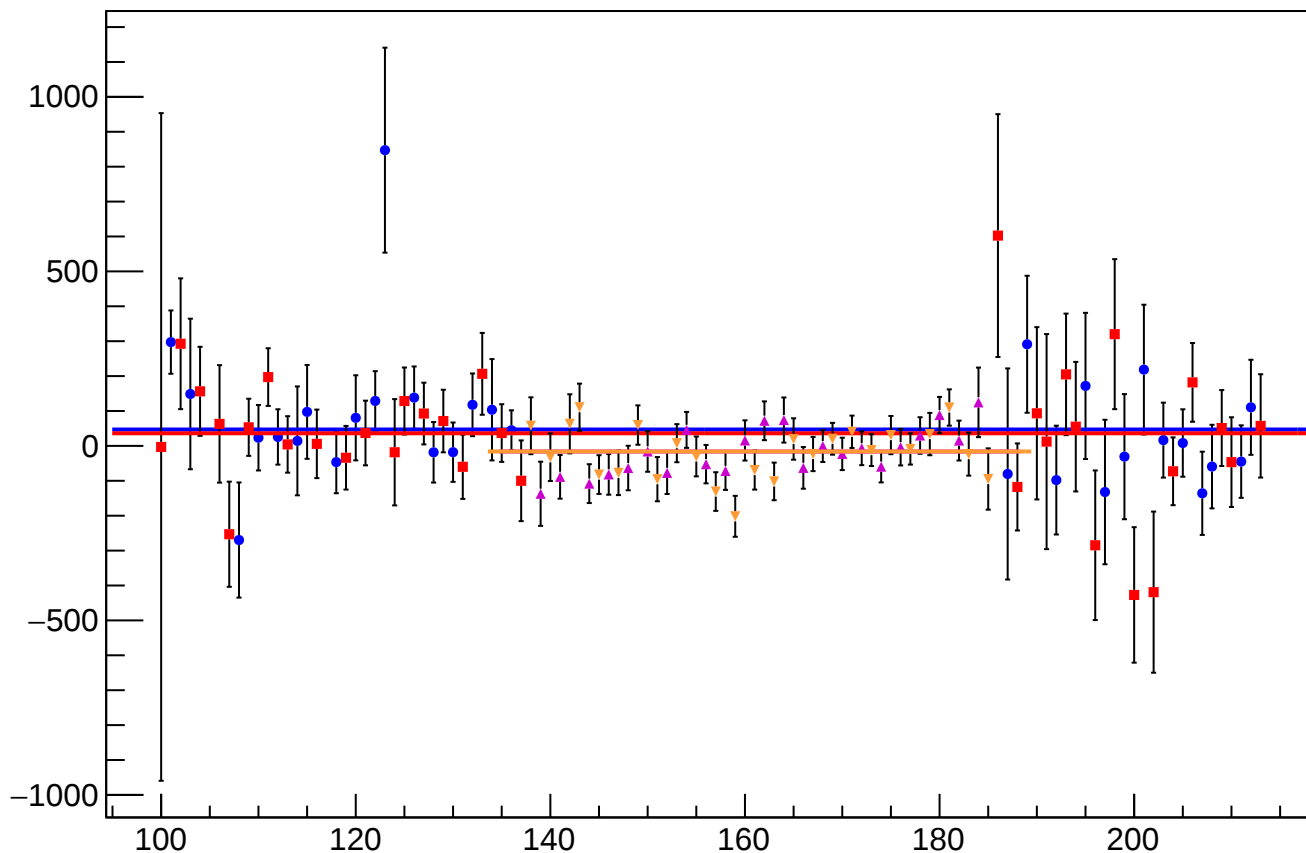
Right: 2795.753 $\pm$ 0.358 χ^2 /NDF: 4942873.6/63

In: 1803.302 $\pm$ 0.233 χ^2 /NDF: 6804959.6/52

Out: 1809.416 $\pm$ 0.228 χ^2 /NDF: 8521405.3/58

All: 1806.425 $\pm$ 0.163 χ^2 /NDF: 15326715.2/112

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 46.982 ± 20.280 $\chi^2/\text{NDF}: 33.5/29$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 36.123 ± 20.408 $\chi^2/\text{NDF}: 39.5/33$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

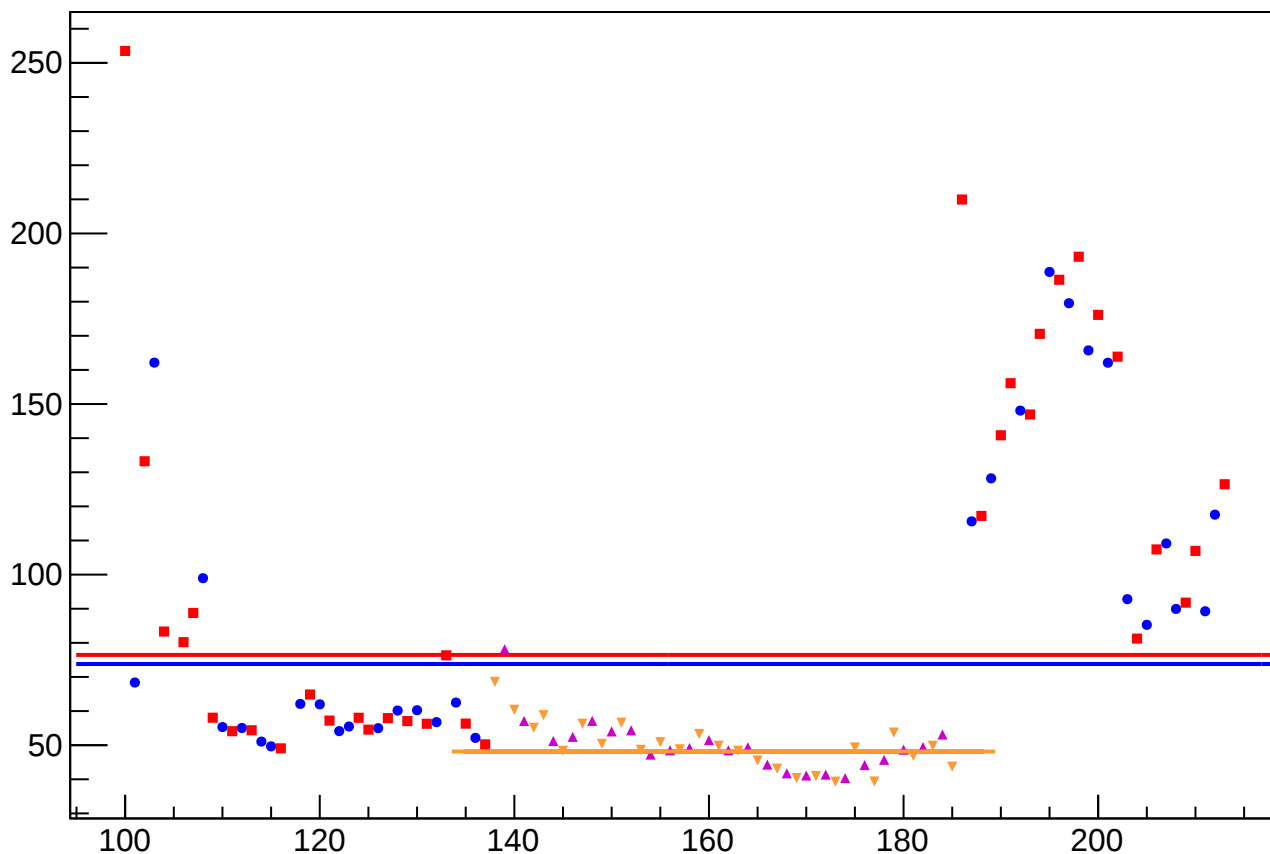
Right: 41.586 ± 14.385 $\chi^2/\text{NDF}: 73.1/63$

In: -0.496 ± 10.102 $\chi^2/\text{NDF}: 66.0/52$

Out: -3.741 ± 9.912 $\chi^2/\text{NDF}: 84.1/58$

All: -2.149 ± 7.075 $\chi^2/\text{NDF}: 150.2/111$

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 73.796 $\pm$ 0.014 χ^2 /NDF: 4716354.7/29

Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24

Right Out: 76.463 $\pm$ 0.014 χ^2 /NDF: 5662339.2/33

Left In: 48.139 $\pm$ 0.008 χ^2 /NDF: 575025.5/22

Left: 48.140 $\pm$ 0.006 χ^2 /NDF: 1230275.9/47

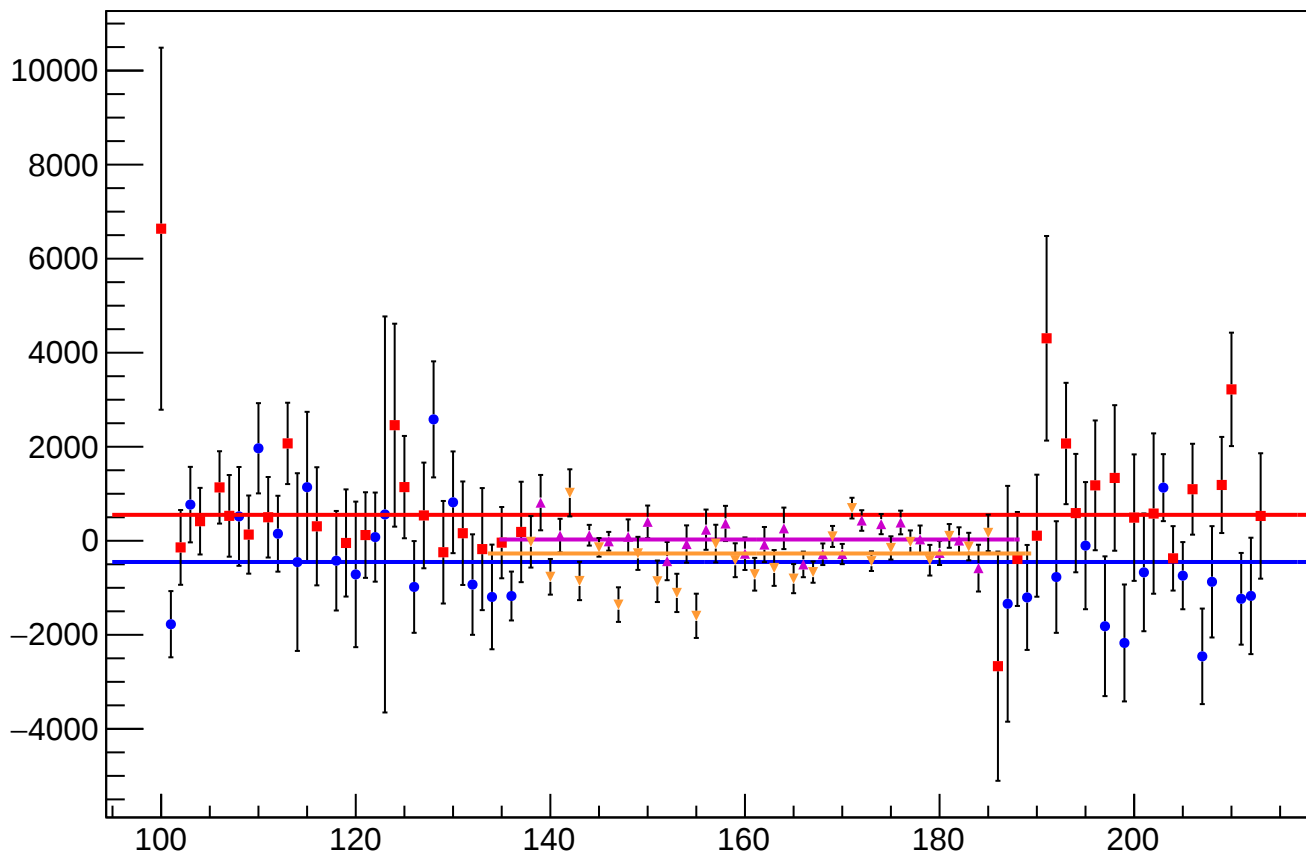
Right: 75.121 $\pm$ 0.010 χ^2 /NDF: 10395869.2/63

In: 54.505 $\pm$ 0.007 χ^2 /NDF: 7698285.7/52

Out: 54.822 $\pm$ 0.007 χ^2 /NDF: 9260823.5/58

All: 54.667 $\pm$ 0.005 χ^2 /NDF: 16960118.0/111

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -451.009 ± 184.235 χ^2/NDF : 38.9/29

Left Out: -270.214 ± 60.177 χ^2/NDF : 70.1/24

Right Out: 551.846 ± 180.781 χ^2/NDF : 25.5/33

Left In: 27.271 ± 60.430 χ^2/NDF : 25.1/22

Left: -122.095 ± 42.641 χ^2/NDF : 107.3/47

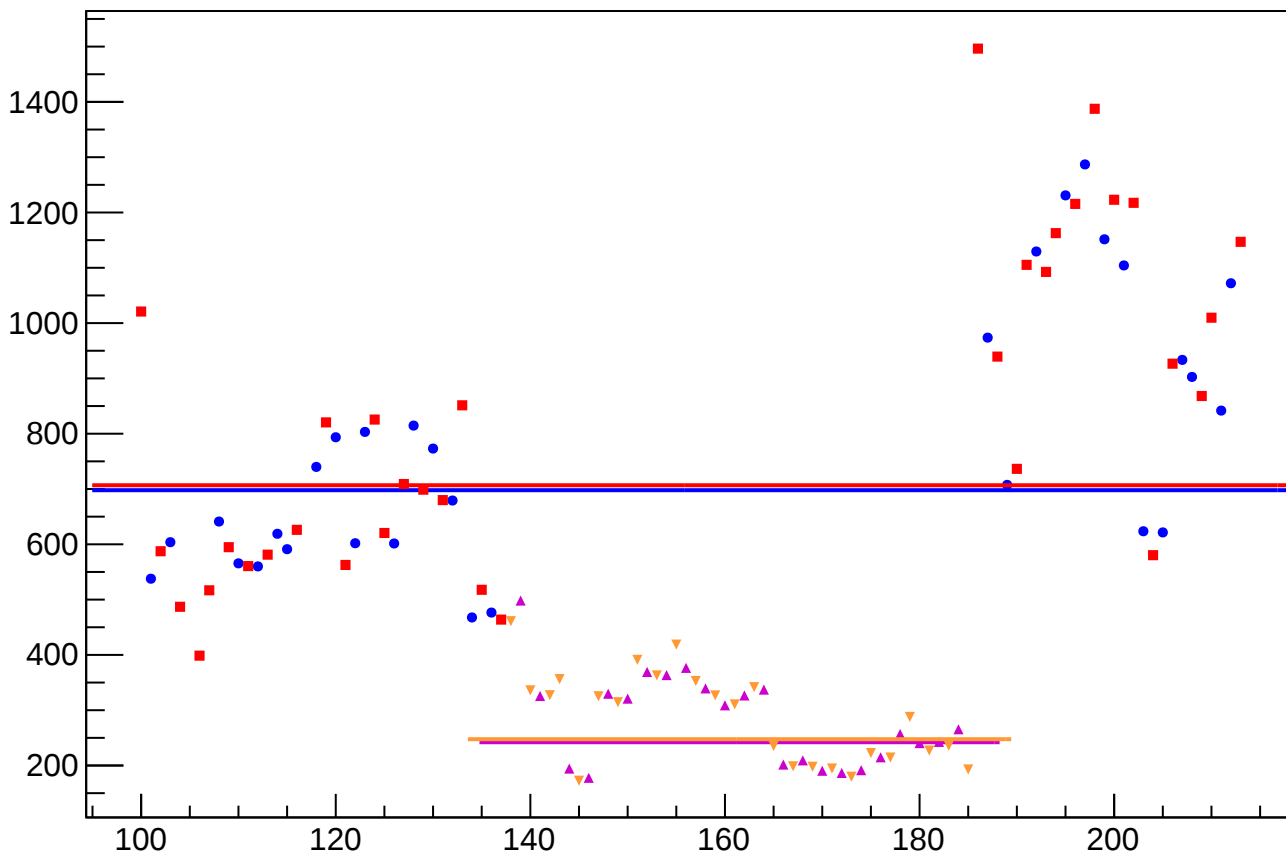
Right: 59.906 ± 129.035 χ^2/NDF : 79.5/63

In: -19.188 ± 57.420 χ^2/NDF : 70.0/52

Out: -188.211 ± 57.097 χ^2/NDF : 114.2/58

All: -104.176 ± 40.488 χ^2/NDF : 188.6/111

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 697.832 $\pm$ 0.130 χ^2 /NDF: 2602876.2/29

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF: 2780931.0/24

Right Out: 706.784 $\pm$ 0.128 χ^2 /NDF: 3680657.8/33

Left In: 242.117 $\pm$ 0.043 χ^2 /NDF: 2466108.9/22

Left: 244.855 $\pm$ 0.030 χ^2 /NDF: 5255218.1/47

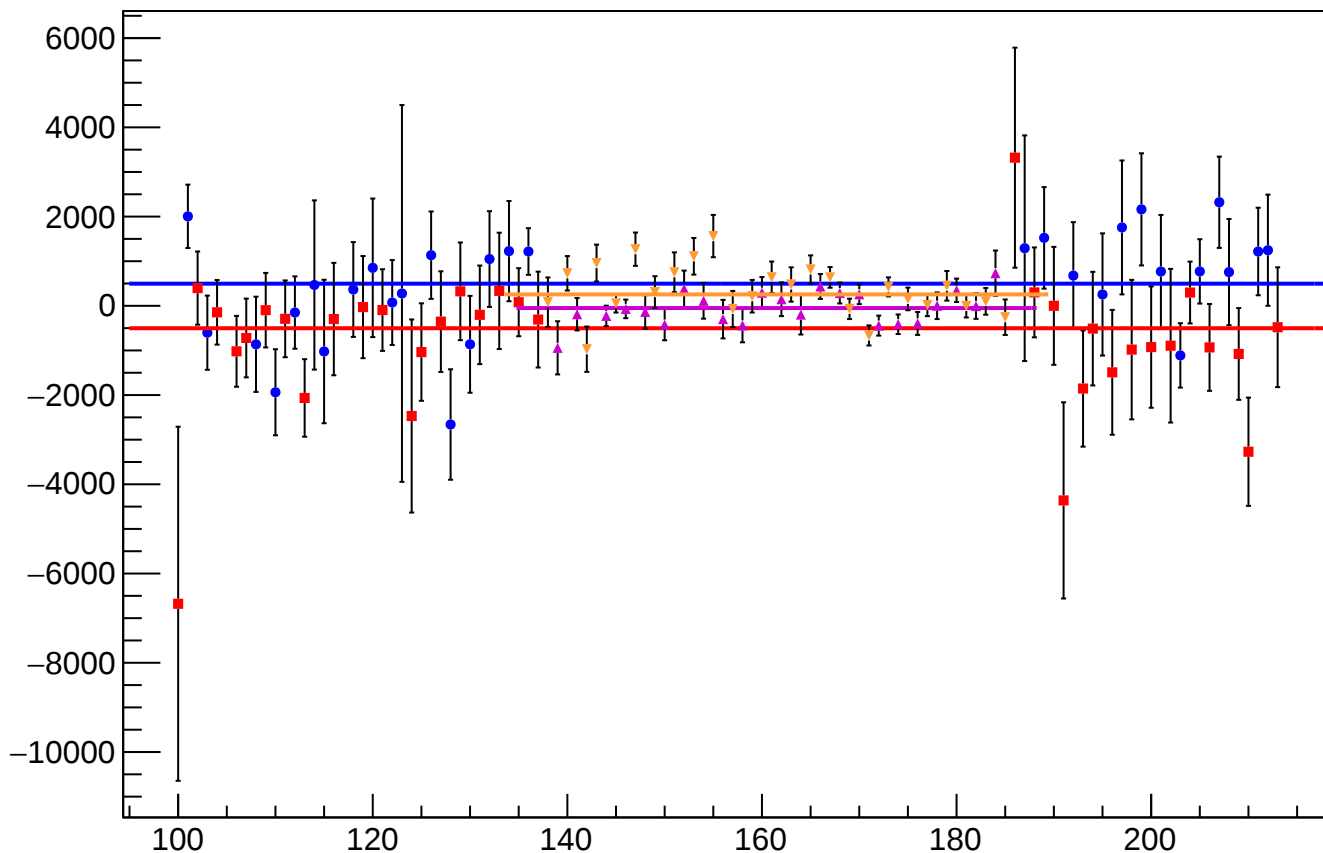
Right: 702.393 $\pm$ 0.091 χ^2 /NDF: 6285939.7/63

In: 286.384 $\pm$ 0.041 χ^2 /NDF: 16117301.9/52

Out: 293.378 $\pm$ 0.040 χ^2 /NDF: 18079158.5/58

All: 289.901 $\pm$ 0.029 χ^2 /NDF: 34211380.8/110

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 496.563 $\pm$ 185.904 χ^2 /NDF: 39.8/29

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF:63.6/24

Right Out: -502.472 $\pm$ 182.736 χ^2 /NDF: 26.2/33

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

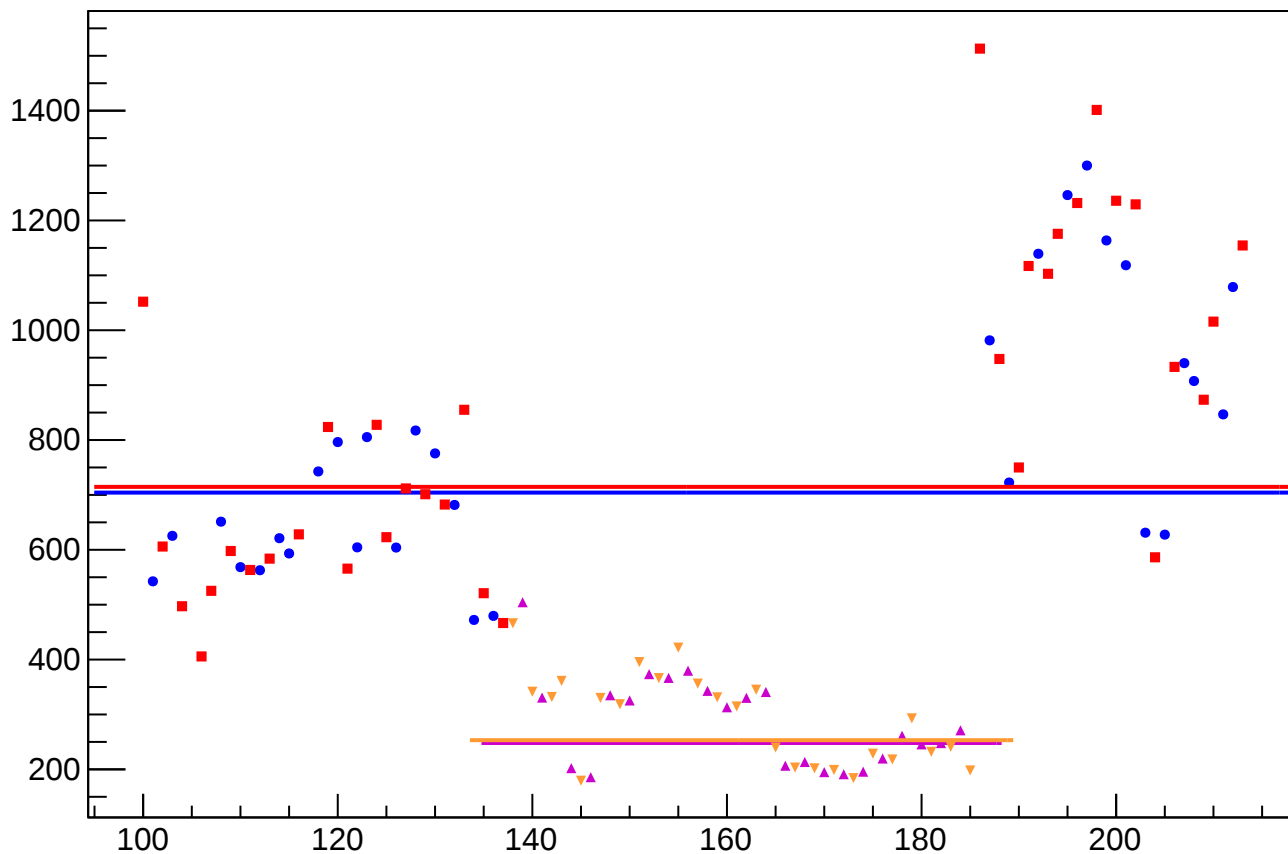
Right: -11.539 $\pm$ 130.320 χ^2 /NDF: 80.7/63

In: 4.511 $\pm$ 58.628 χ^2 /NDF:75.2/52

Out: 179.011 $\pm$ 58.218 χ^2 /NDF:105.2/58

All: 92.374 $\pm$ 41.311 χ^2 /NDF: 184.9/111

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 704.208 $\pm$ 0.131 χ^2 /NDF: 2602974.7/29

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF:2665975.8/24

Right Out: 714.643 $\pm$ 0.129 χ^2 /NDF: 3644834.3/33

Left In: 248.069 $\pm$ 0.044 χ^2 /NDF:2343295.0/22

Left: 250.618 $\pm$ 0.031 χ^2 /NDF: 5016040.5/47

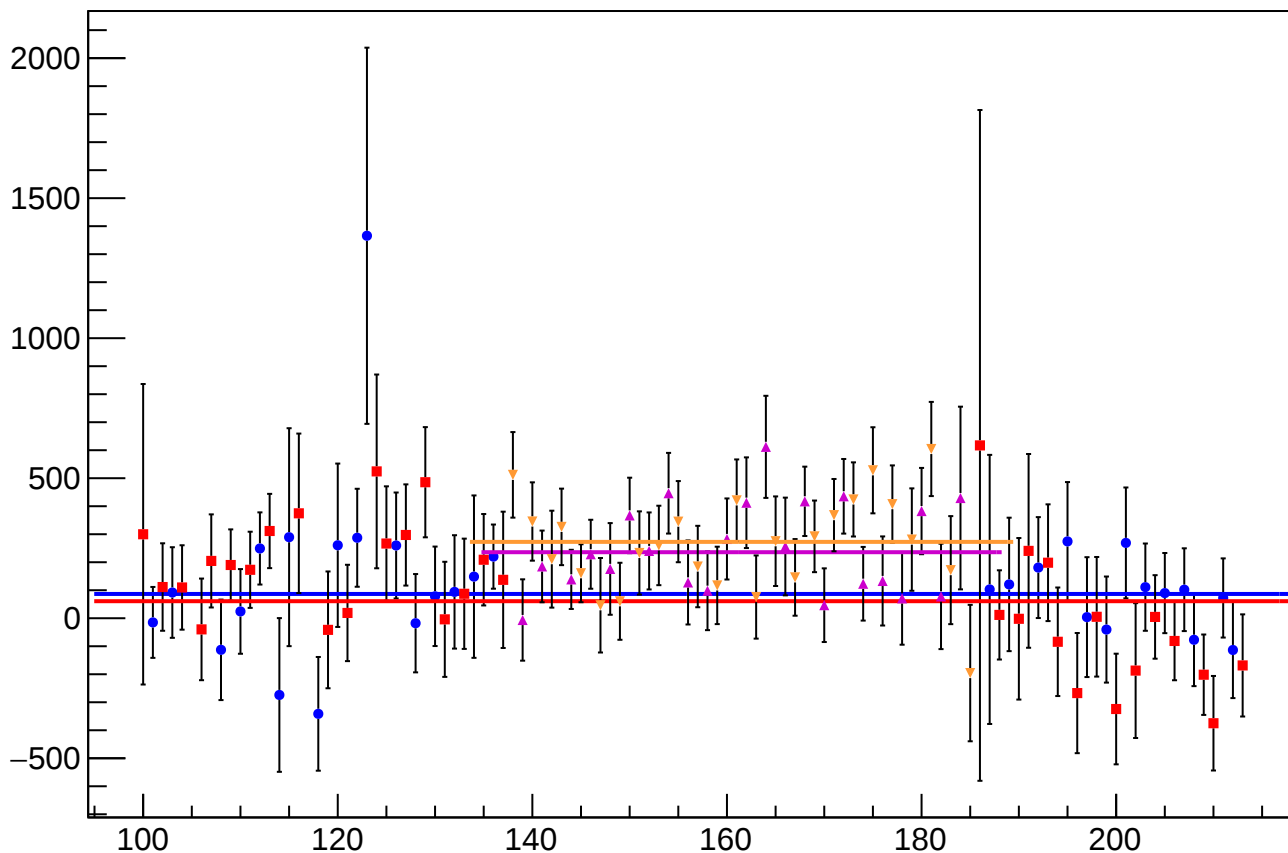
Right: 709.515 $\pm$ 0.092 χ^2 /NDF: 6251013.9/63

In: 293.435 $\pm$ 0.041 χ^2 /NDF:15789307.6/52

Out: 299.980 $\pm$ 0.041 χ^2 /NDF:17772628.3/58

All: 296.730 $\pm$ 0.029 χ^2 /NDF: 33574484.5/11

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 86.713+/-32.660 χ^2/NDF : 22.9/29

Left Out: 272.684+/-29.221 χ^2/NDF :27.4/24

Right Out: 60.847+/-31.690 χ^2/NDF : 40.1/33

Left In: 235.801+/-30.232 χ^2/NDF :24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

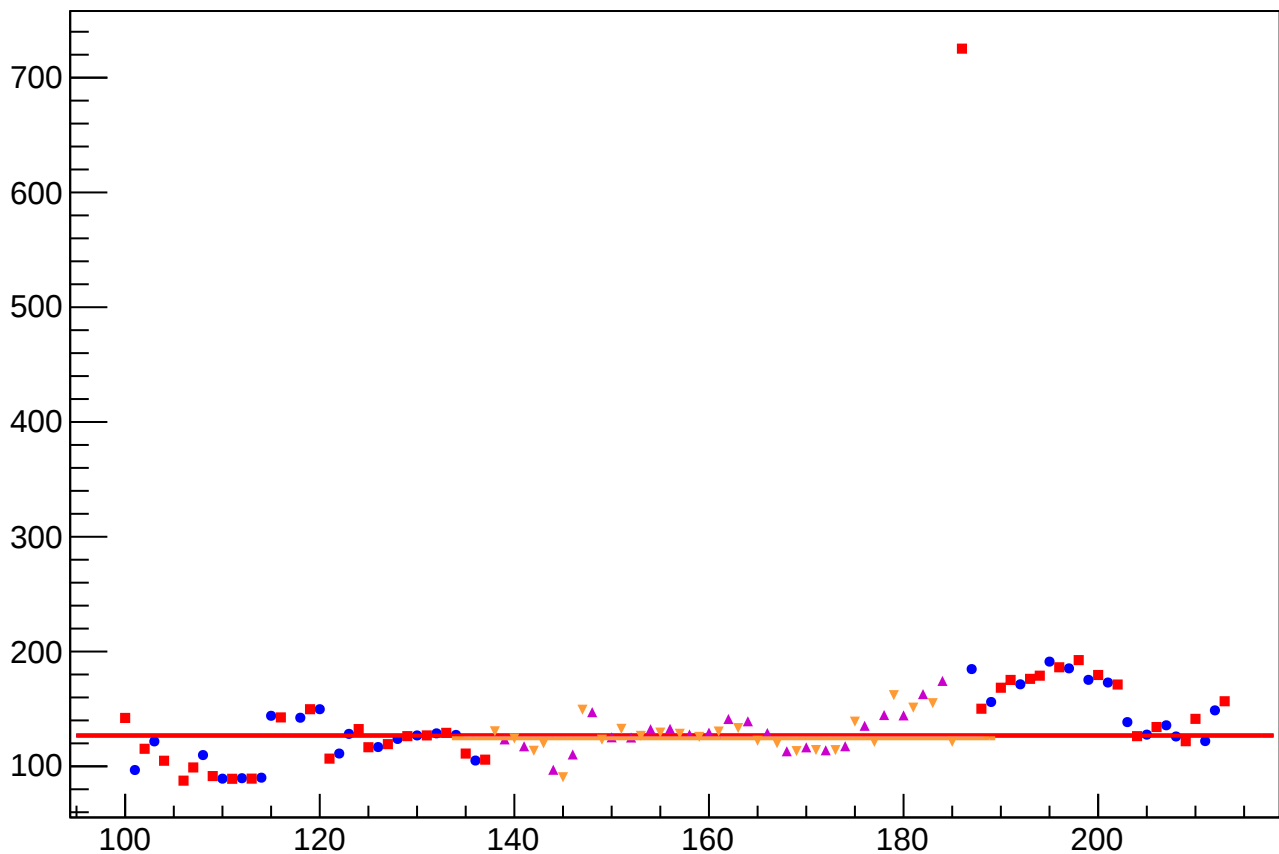
Right: 73.390+/-22.743 χ^2/NDF : 63.3/63

In: 167.005+/-22.186 χ^2/NDF :58.7/52

Out: 175.337+/-21.482 χ^2/NDF :91.7/58

All: 171.305+/-15.433 χ^2/NDF : 150.5/111

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 126.912 $\pm$ 0.023 χ^2 /NDF: 1390992.6/29

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 126.736 $\pm$ 0.022 χ^2 /NDF: 2284102.9/33

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

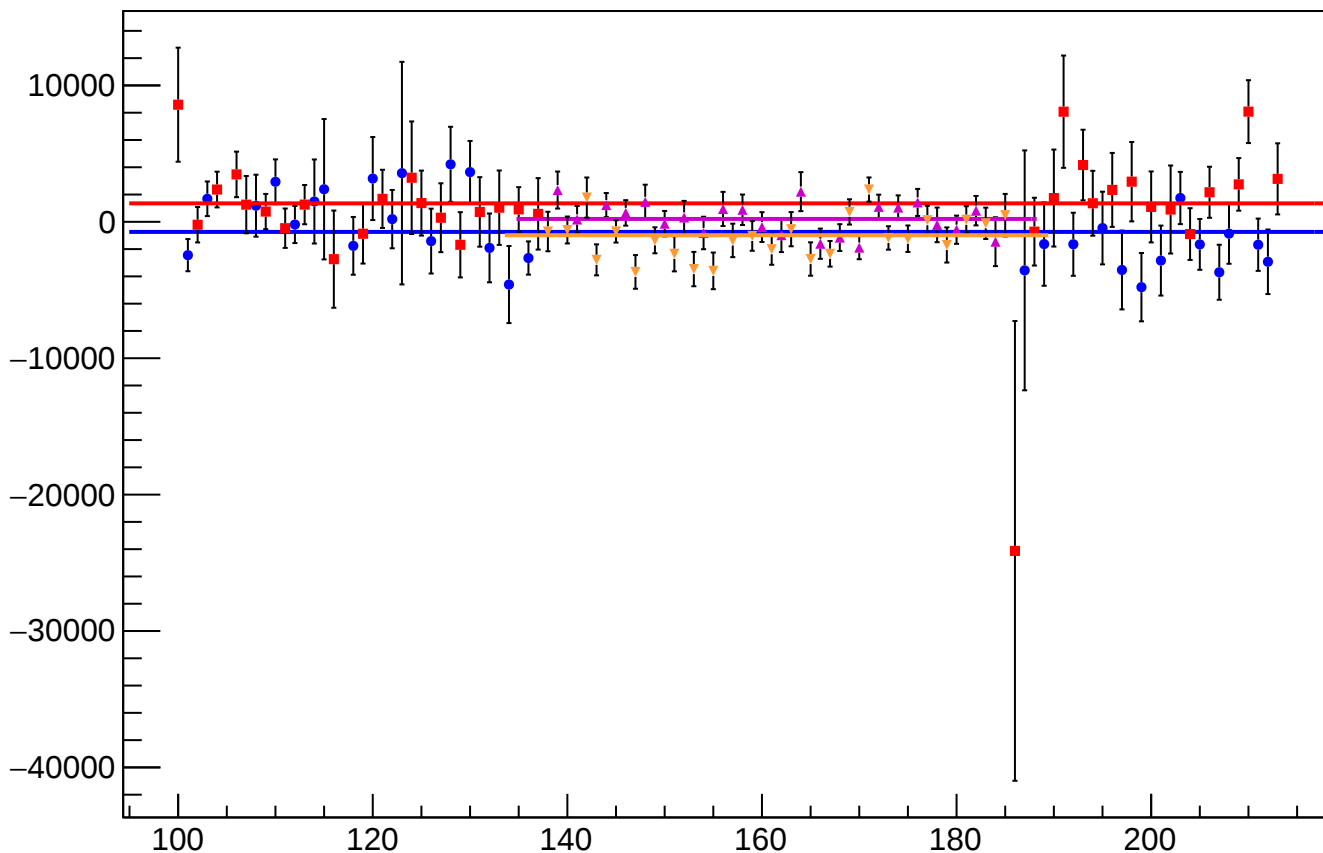
Right: 126.821 $\pm$ 0.016 χ^2 /NDF: 3675125.5/63

In: 125.993 $\pm$ 0.016 χ^2 /NDF: 1895323.9/52

Out: 125.489 $\pm$ 0.015 χ^2 /NDF: 2829564.0/58

All: 125.733 $\pm$ 0.011 χ^2 /NDF: 4725420.5/111

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -739.332+/-379.289 χ^2/NDF : 36.2/29

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 1352.834+/-363.683 χ^2/NDF : 31.5/33

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

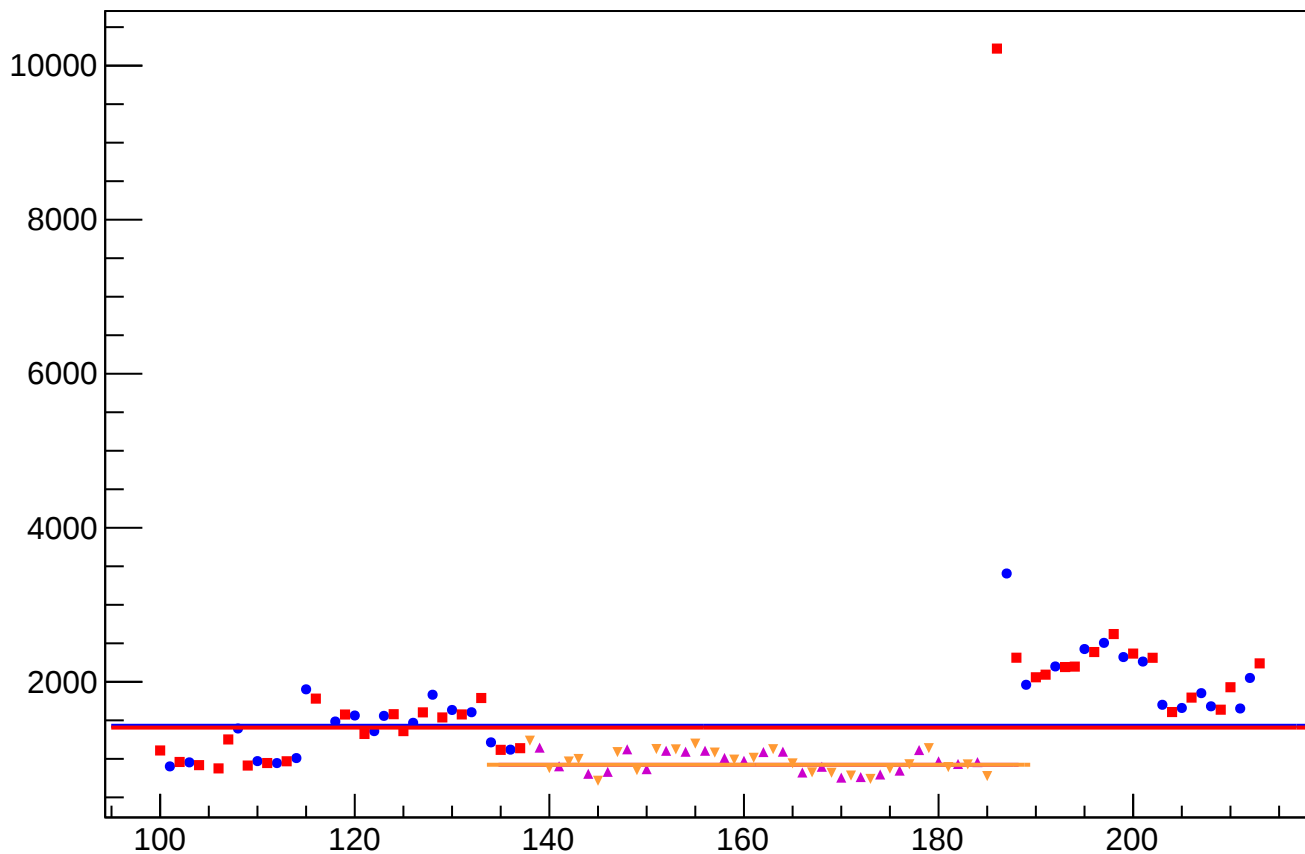
Right: 350.679+/-262.507 χ^2/NDF : 83.5/63

In: -33.290+/-192.426 χ^2/NDF : 66.5/52

Out: -365.358+/-186.994 χ^2/NDF : 109.0/58

All: -204.077+/-134.104 χ^2/NDF : 177.1/111

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1429.437+/-0.268 χ^2/NDF : 3119112.1/29

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1405.940+/-0.257 χ^2/NDF : 4436961.8/33

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

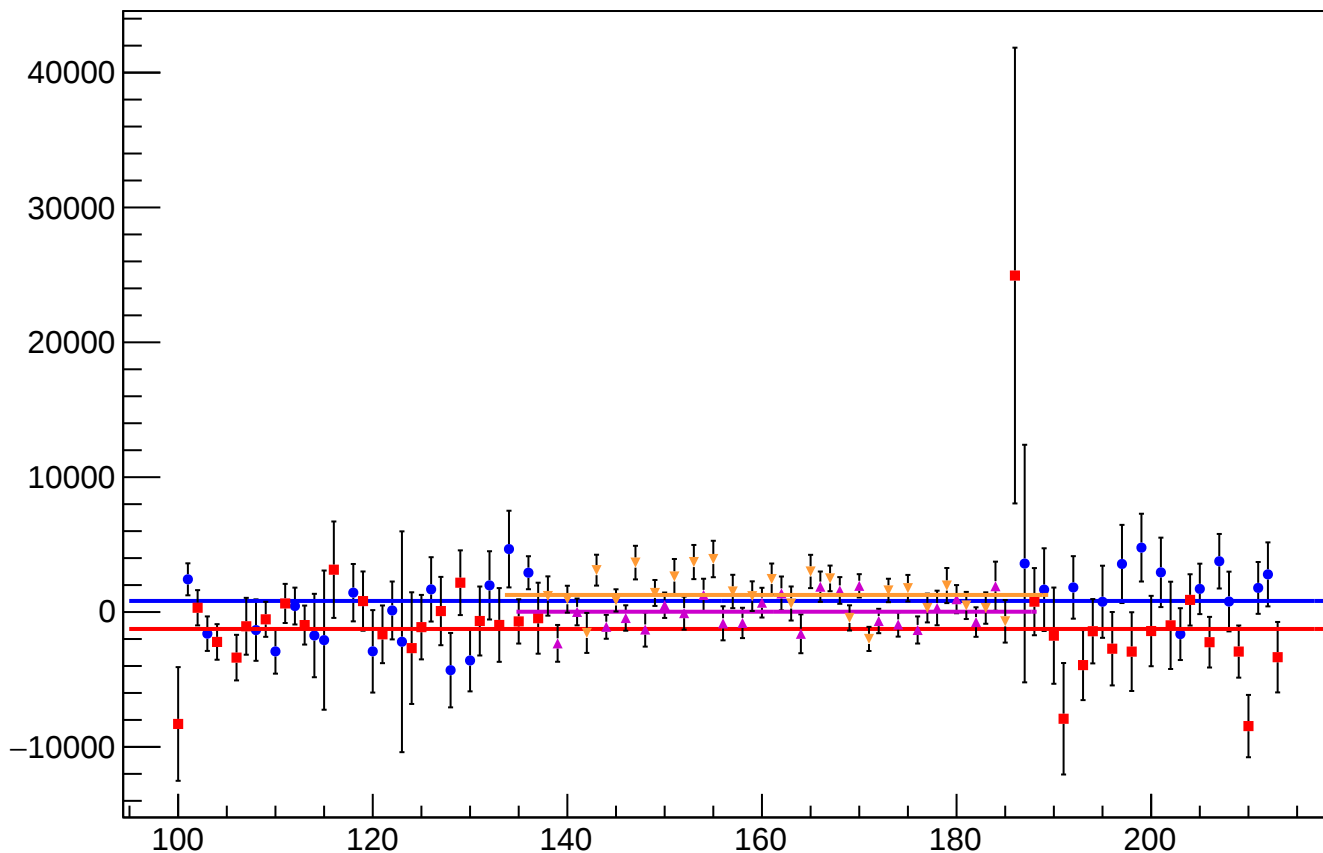
Right: 1417.195+/-0.186 χ^2/NDF : 7560072.8/63

In: 1052.789+/-0.136 χ^2/NDF : 6409630.1/52

Out: 1051.106+/-0.132 χ^2/NDF : 7867790.0/58

All: 1051.923+/-0.095 χ^2/NDF : 14277498.8/110

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 823.033+/-380.907 χ^2/NDF : 36.0/29

Left Out: 1267.344+/-220.133 χ^2/NDF :44.9/24

Right Out: -1254.671+/-365.396 χ^2/NDF : 33.6/33

Left In: 23.478+/-225.490 χ^2/NDF :27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

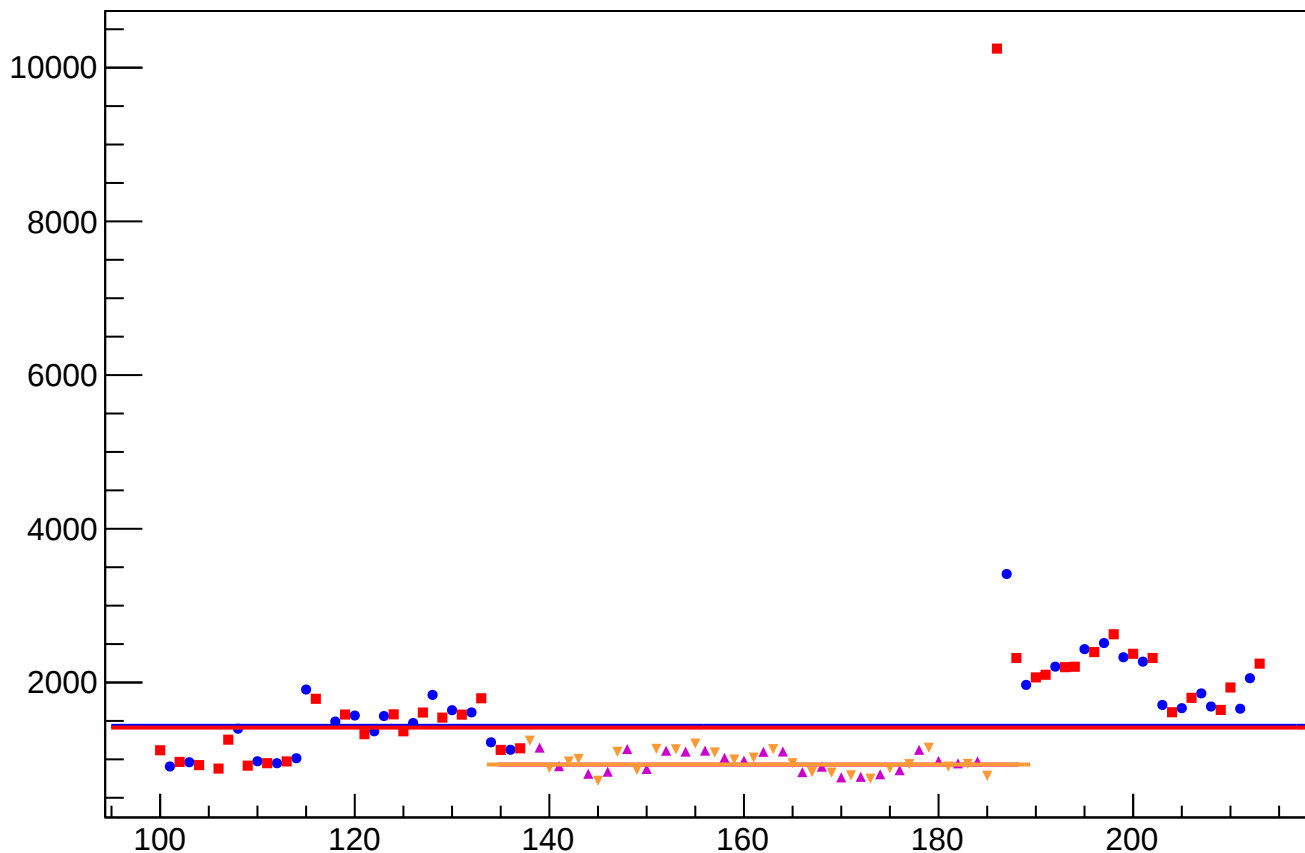
Right: -258.984+/-263.687 χ^2/NDF : 85.1/63

In: 230.964+/-194.039 χ^2/NDF :66.4/52

Out: 595.741+/-188.558 χ^2/NDF :113.5/58

All: 418.577+/-135.227 χ^2/NDF : 181.7/111

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1436.082+/-0.269 χ^2/NDF : 3098806.0/29

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1413.007+/-0.258 χ^2/NDF : 4410731.8/33

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

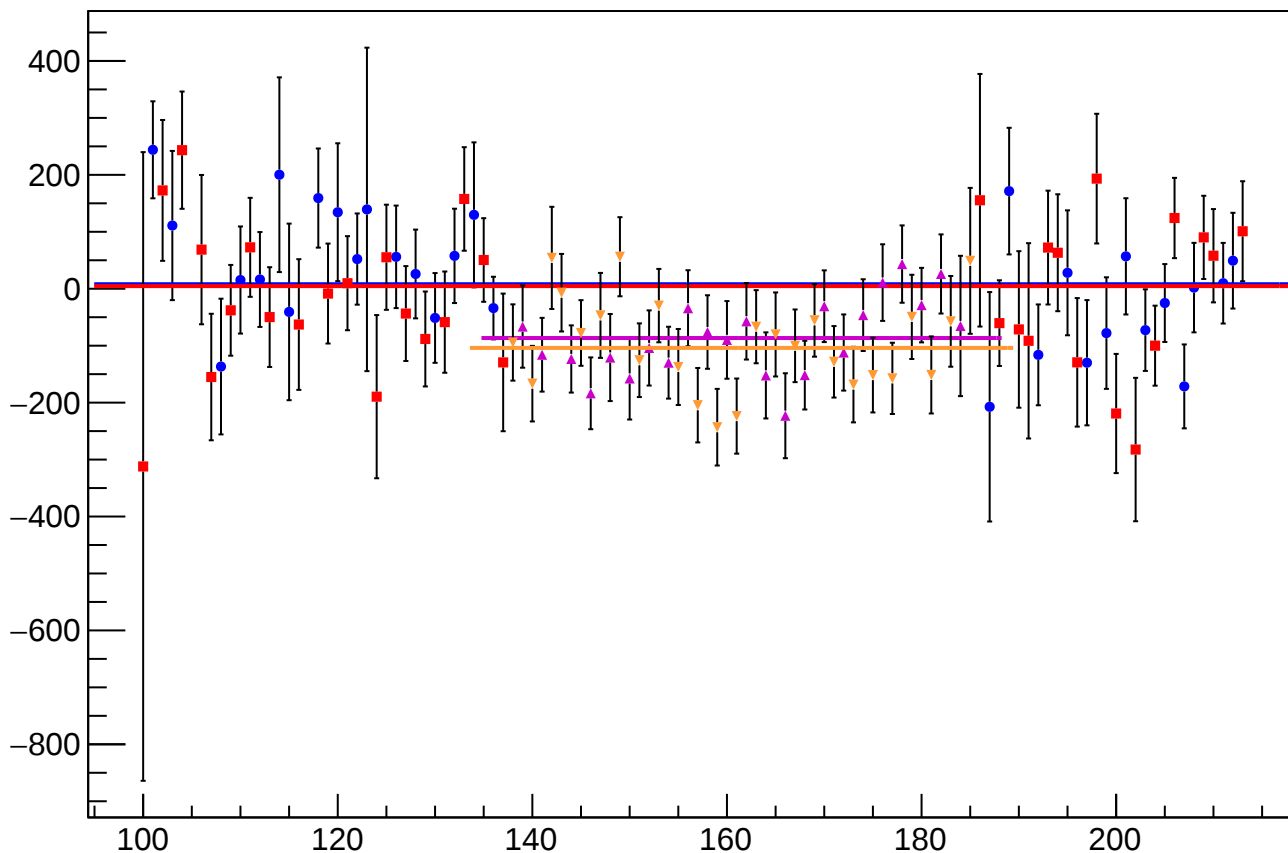
Right: 1424.065+/-0.186 χ^2/NDF : 7513359.9/63

In: 1062.435+/-0.137 χ^2/NDF : 6322152.9/52

Out: 1060.651+/-0.133 χ^2/NDF : 7775345.7/58

All: 1061.517+/-0.096 χ^2/NDF : 14097585.6/112

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 7.901 ± 16.552 χ^2/NDF : 34.1/29

Left Out: -103.899 ± 13.642 χ^2/NDF : 30.0/24

Right Out: 4.594 ± 16.464 χ^2/NDF : 44.8/33

Left In: -86.542 ± 14.120 χ^2/NDF : 21.4/22

Left: -95.520 ± 9.811 χ^2/NDF : 52.1/47

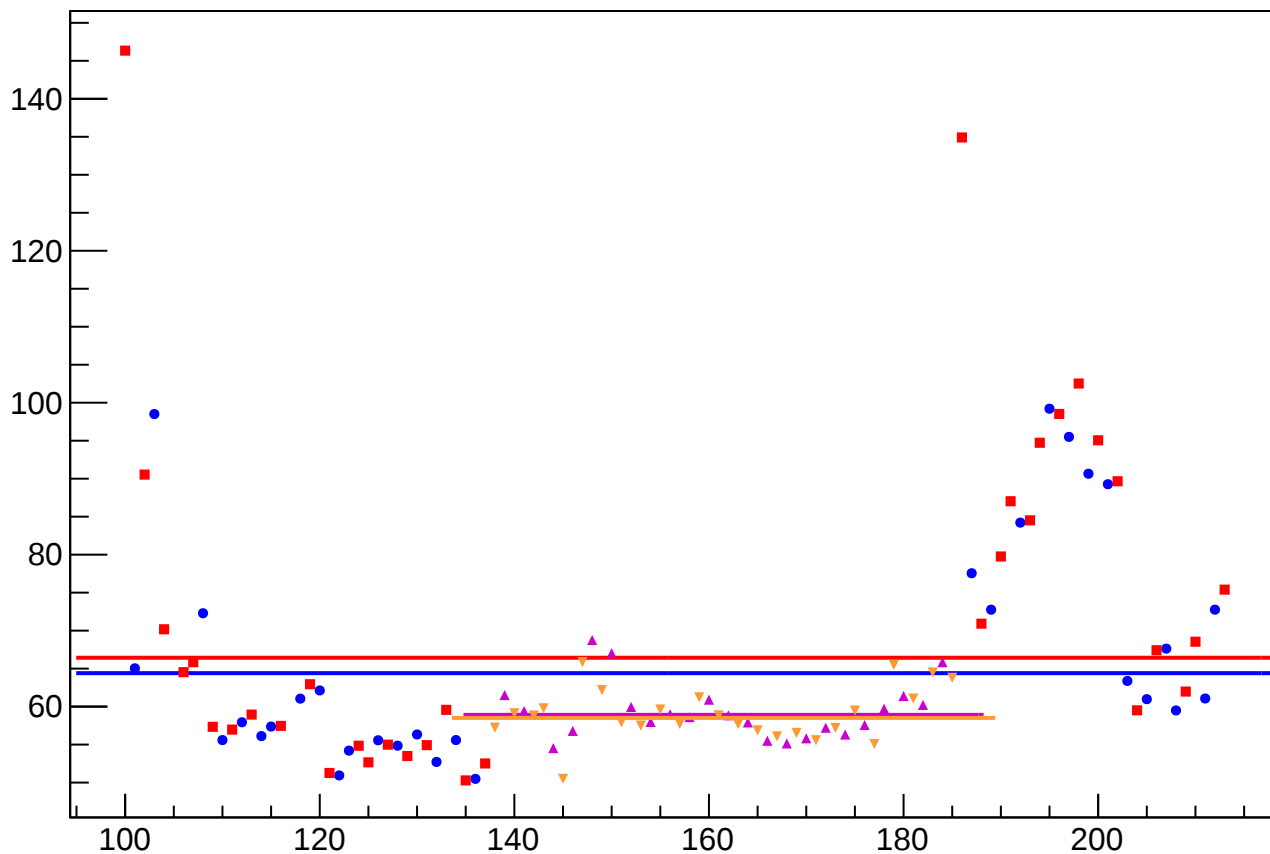
Right: 6.239 ± 11.673 χ^2/NDF : 78.9/63

In: -46.762 ± 10.742 χ^2/NDF : 74.3/52

Out: -59.734 ± 10.505 χ^2/NDF : 100.5/58

All: -53.393 ± 7.511 χ^2/NDF : 175.6/111

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.401 $\pm$ 0.012 χ^2 /NDF: 1278169.5/29

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24

Right Out: 66.431 $\pm$ 0.012 χ^2 /NDF: 1672347.0/33

Left In: 58.913 $\pm$ 0.010 χ^2 /NDF:109968.0/22

Left: 58.706 $\pm$ 0.007 χ^2 /NDF: 234021.7/47

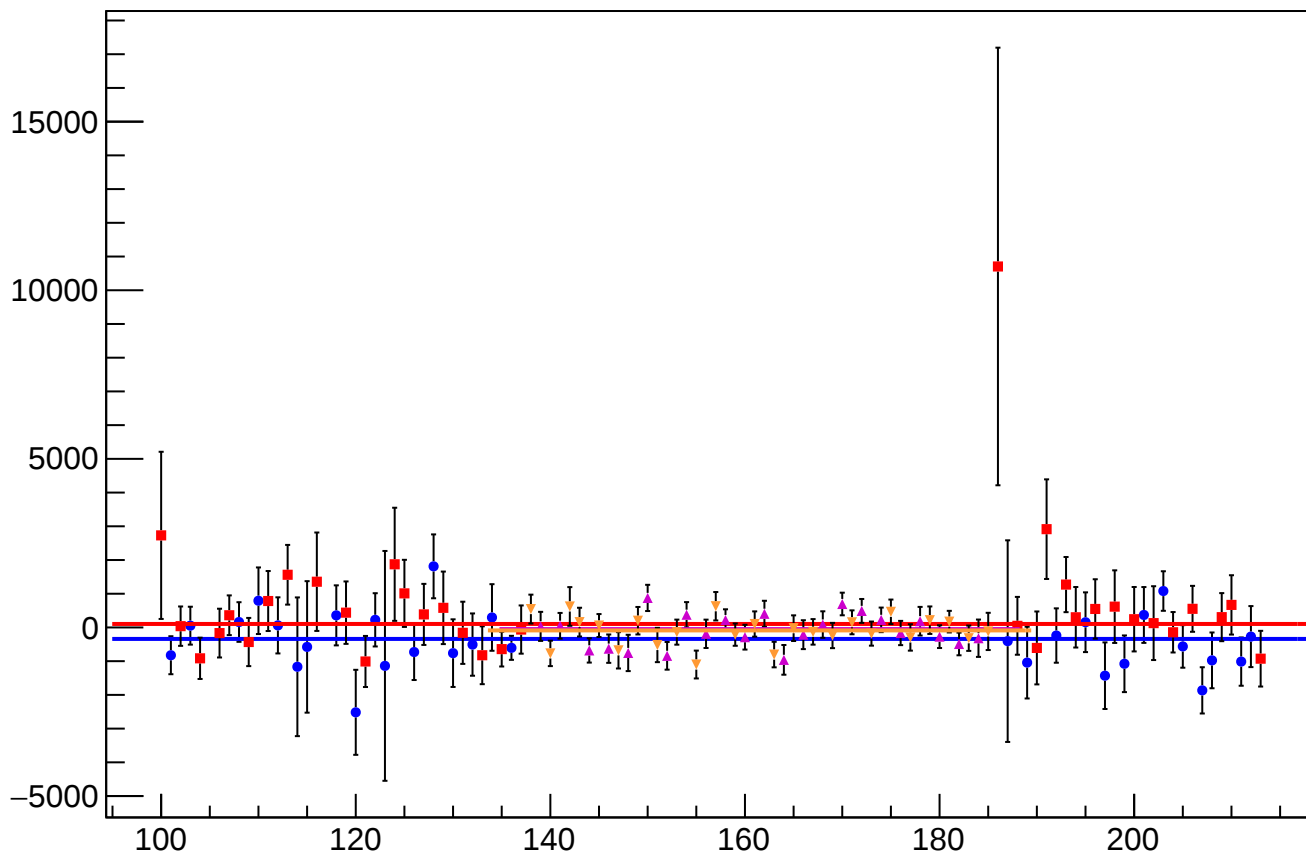
Right: 65.421 $\pm$ 0.008 χ^2 /NDF: 2965643.4/63

In: 61.225 $\pm$ 0.008 χ^2 /NDF:1515362.8/52

Out: 61.736 $\pm$ 0.007 χ^2 /NDF:2069840.2/58

All: 61.486 $\pm$ 0.005 χ^2 /NDF: 3587521.2/111

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -340.255+/-142.427 χ^2/NDF : 30.3/29

Left Out: -87.459+/-78.556 χ^2/NDF : 27.7/24

Right Out: 103.611+/-142.397 χ^2/NDF : 28.7/33

Left In: -48.742+/-80.548 χ^2/NDF : 35.3/22

Left: -68.585+/-56.239 χ^2/NDF : 63.2/47

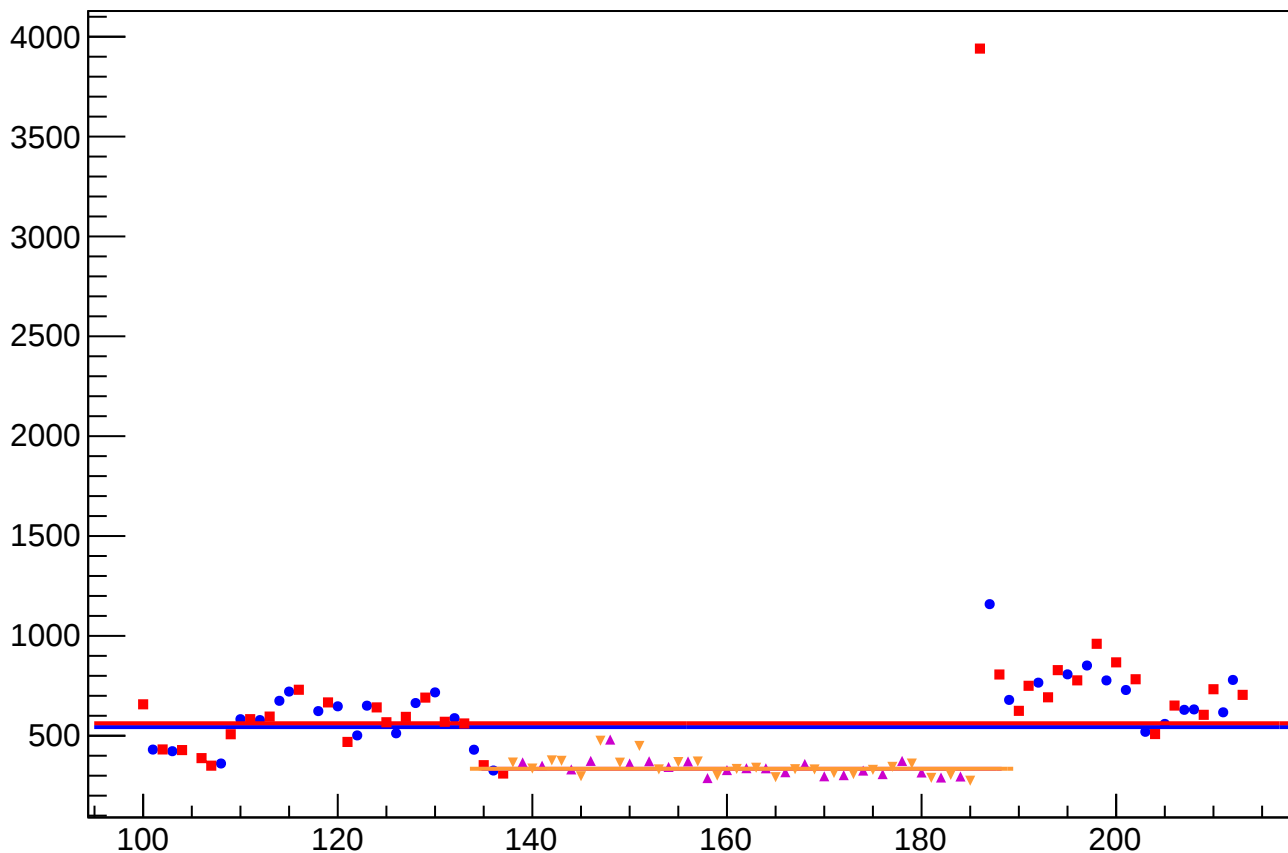
Right: -118.275+/-100.701 χ^2/NDF : 63.9/63

In: -119.383+/-70.112 χ^2/NDF : 68.8/52

Out: -42.876+/-68.784 χ^2/NDF : 57.9/58

All: -80.398+/-49.100 χ^2/NDF : 127.3/111

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 543.355+/-0.101 χ^2/NDF : 2419981.7/29

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 562.528+/-0.101 χ^2/NDF : 3127171.0/33

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

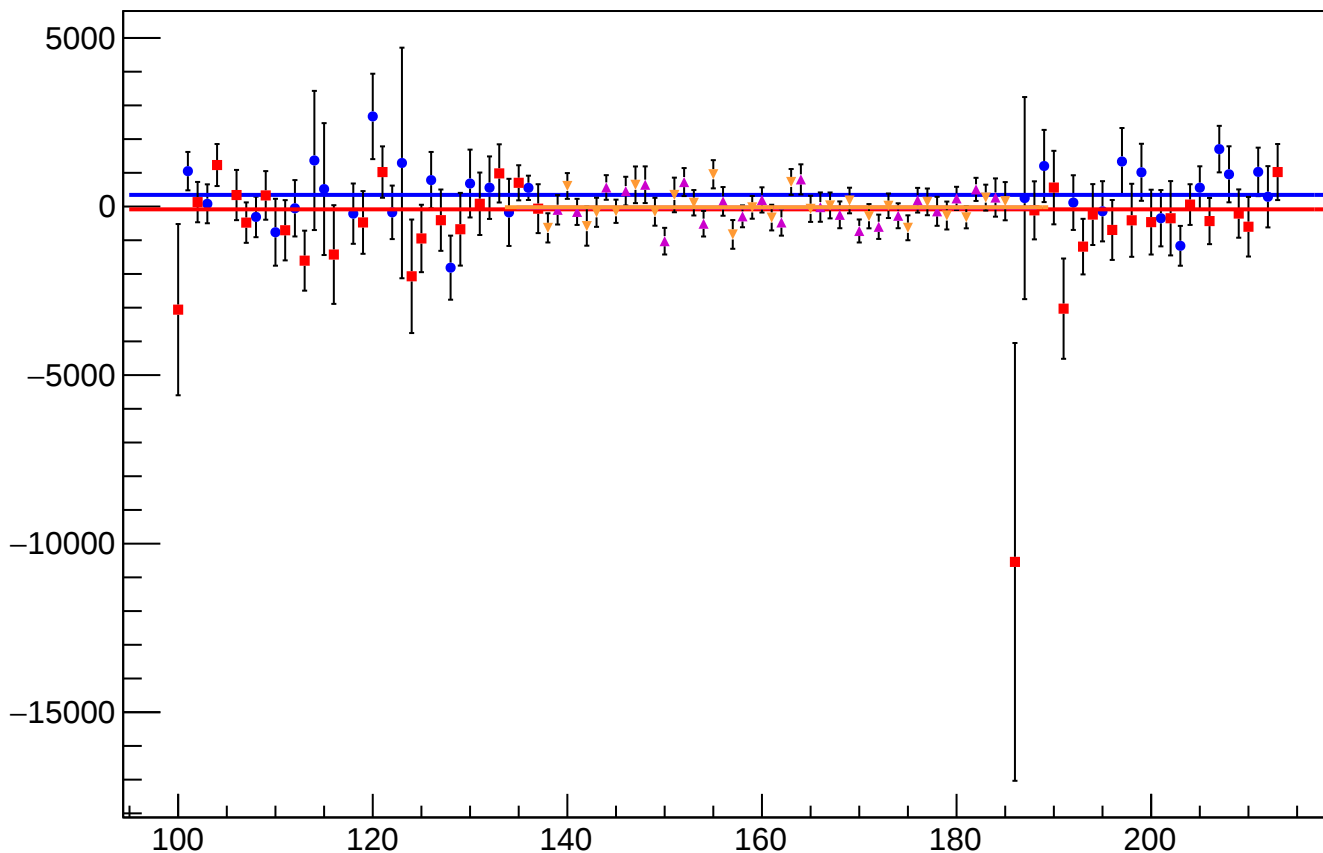
Right: 552.943+/-0.071 χ^2/NDF : 5565277.3/63

In: 384.843+/-0.050 χ^2/NDF : 6086698.1/52

Out: 387.896+/-0.049 χ^2/NDF : 7541950.7/58

All: 386.399+/-0.035 χ^2/NDF : 13630581.0/111

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 345.333+/-143.796 χ^2/NDF : 30.4/29

Left Out: -20.895+/-79.812 χ^2/NDF :27.2/24

Right Out: -83.390+/-143.822 χ^2/NDF : 31.9/33

Left In: -31.800+/-81.839 χ^2/NDF :34.0/22

Left: -26.211+/-57.139 χ^2/NDF : 61.3/47

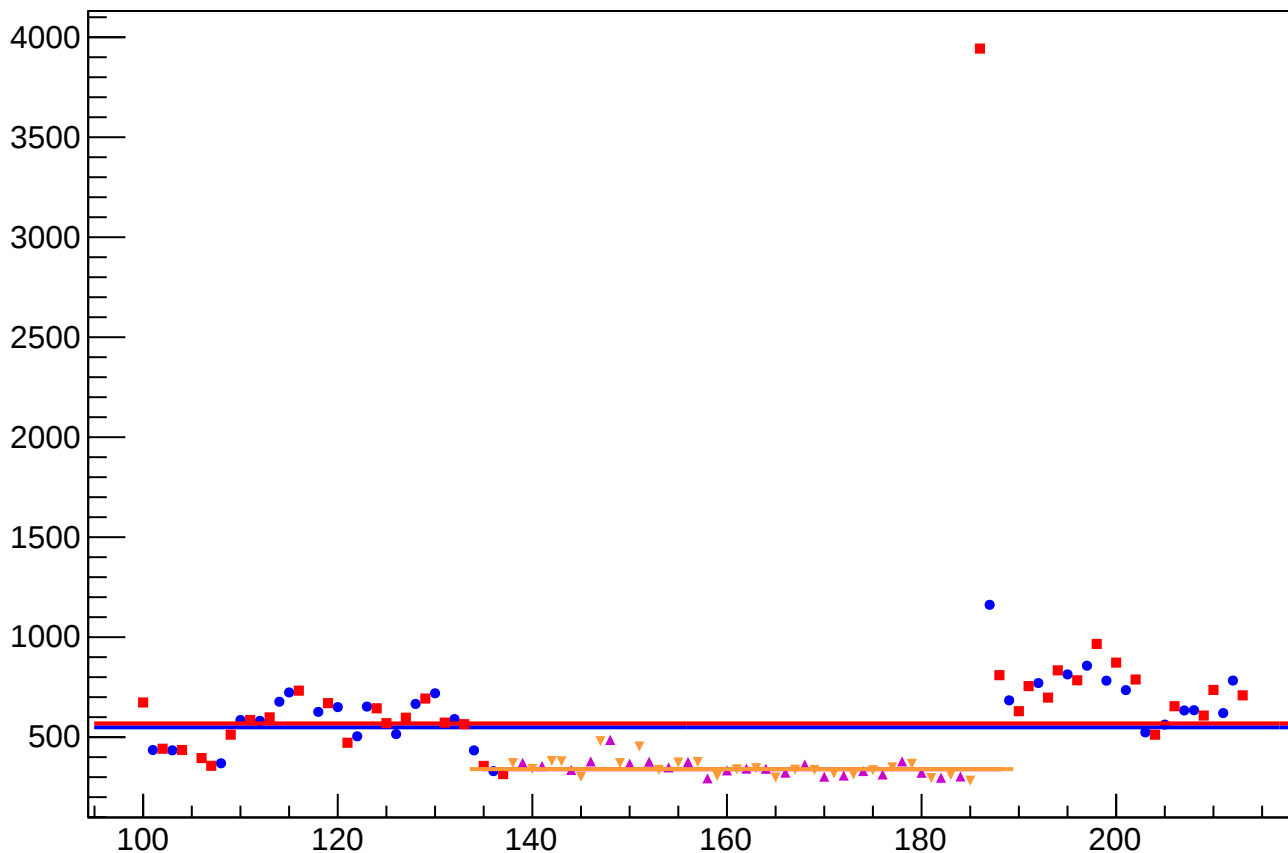
Right: 131.009+/-101.688 χ^2/NDF : 66.8/63

In: 60.471+/-71.127 χ^2/NDF :69.7/52

Out: -35.610+/-69.786 χ^2/NDF :59.2/58

All: 11.517+/-49.814 χ^2/NDF : 129.8/111

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 549.237+/-0.102 χ^2/NDF : 2353720.8/29

Left Out: 340.238+/-0.056 χ^2/NDF : 468863.6/24

Right Out: 568.741+/-0.102 χ^2/NDF : 3056016.5/33

Left In: 339.621+/-0.058 χ^2/NDF : 379808.1/22

Left: 339.937+/-0.040 χ^2/NDF : 848729.8/47

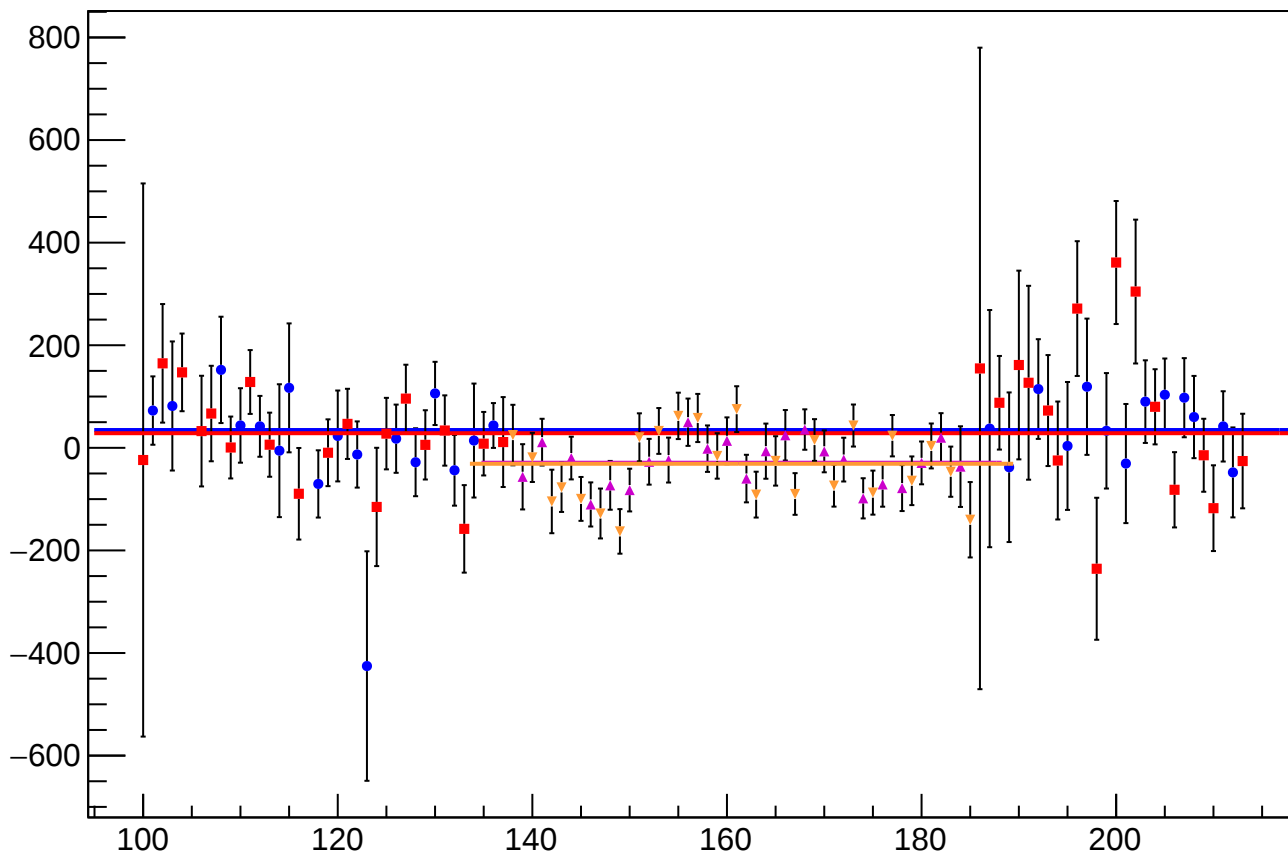
Right: 558.987+/-0.072 χ^2/NDF : 5428131.7/63

In: 390.906+/-0.050 χ^2/NDF : 5943656.9/52

Out: 394.038+/-0.049 χ^2/NDF : 7384770.7/58

All: 392.502+/-0.035 χ^2/NDF : 13330403.2/111

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 34.713 ± 14.748 $\chi^2/\text{NDF}: 18.1/29$

Left Out: -31.063 ± 9.170 $\chi^2/\text{NDF}: 52.6/24$

Right Out: 28.511 ± 14.600 $\chi^2/\text{NDF}: 43.5/33$

Left In: -29.055 ± 9.449 $\chi^2/\text{NDF}: 22.4/22$

Left: -30.089 ± 6.581 $\chi^2/\text{NDF}: 75.1/47$

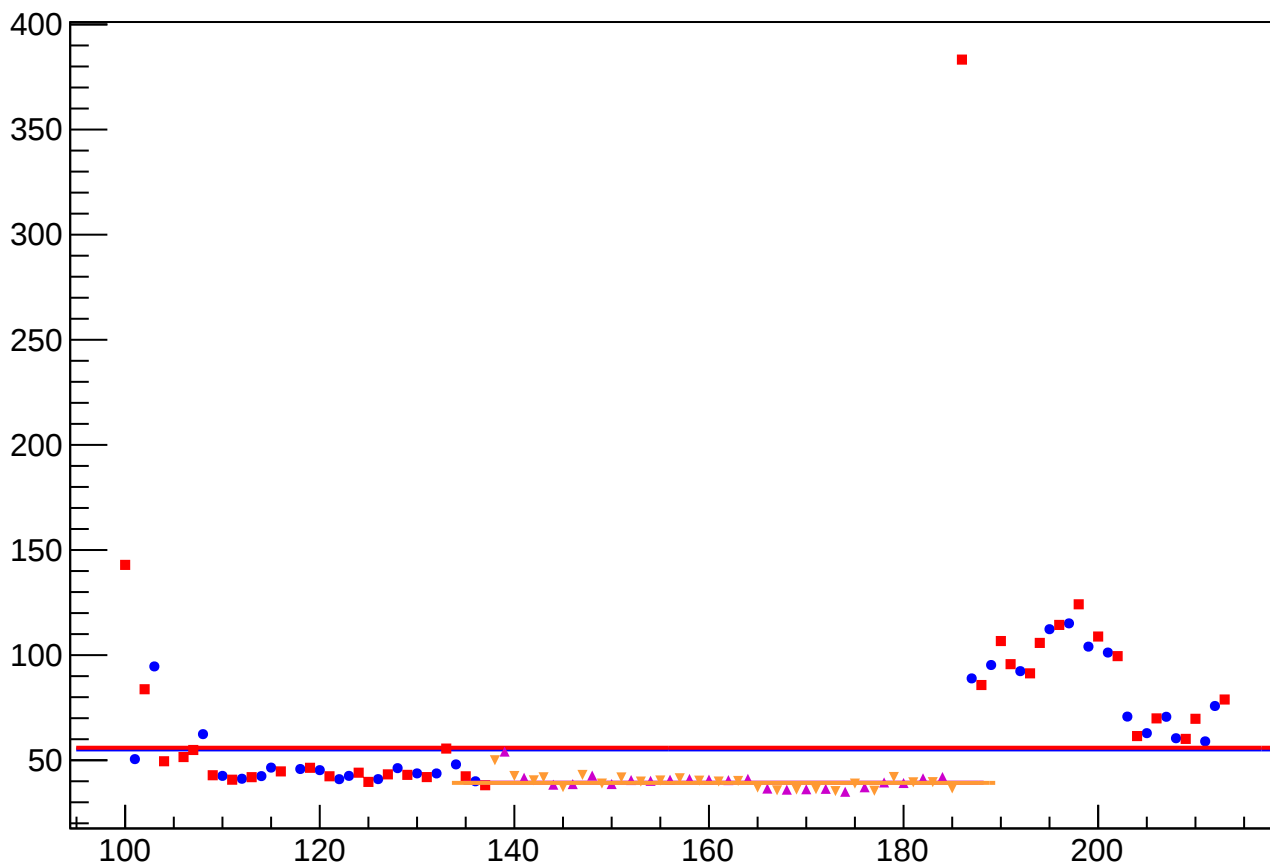
Right: 31.581 ± 10.376 $\chi^2/\text{NDF}: 61.8/63$

In: -10.495 ± 7.956 $\chi^2/\text{NDF}: 53.8/52$

Out: -14.210 ± 7.765 $\chi^2/\text{NDF}: 108.1/58$

All: -12.398 ± 5.557 $\chi^2/\text{NDF}: 162.0/111$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 55.142 $\pm$ 0.010 χ^2 /NDF: 3396721.1/29

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 55.952 $\pm$ 0.010 χ^2 /NDF: 4517704.3/33

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

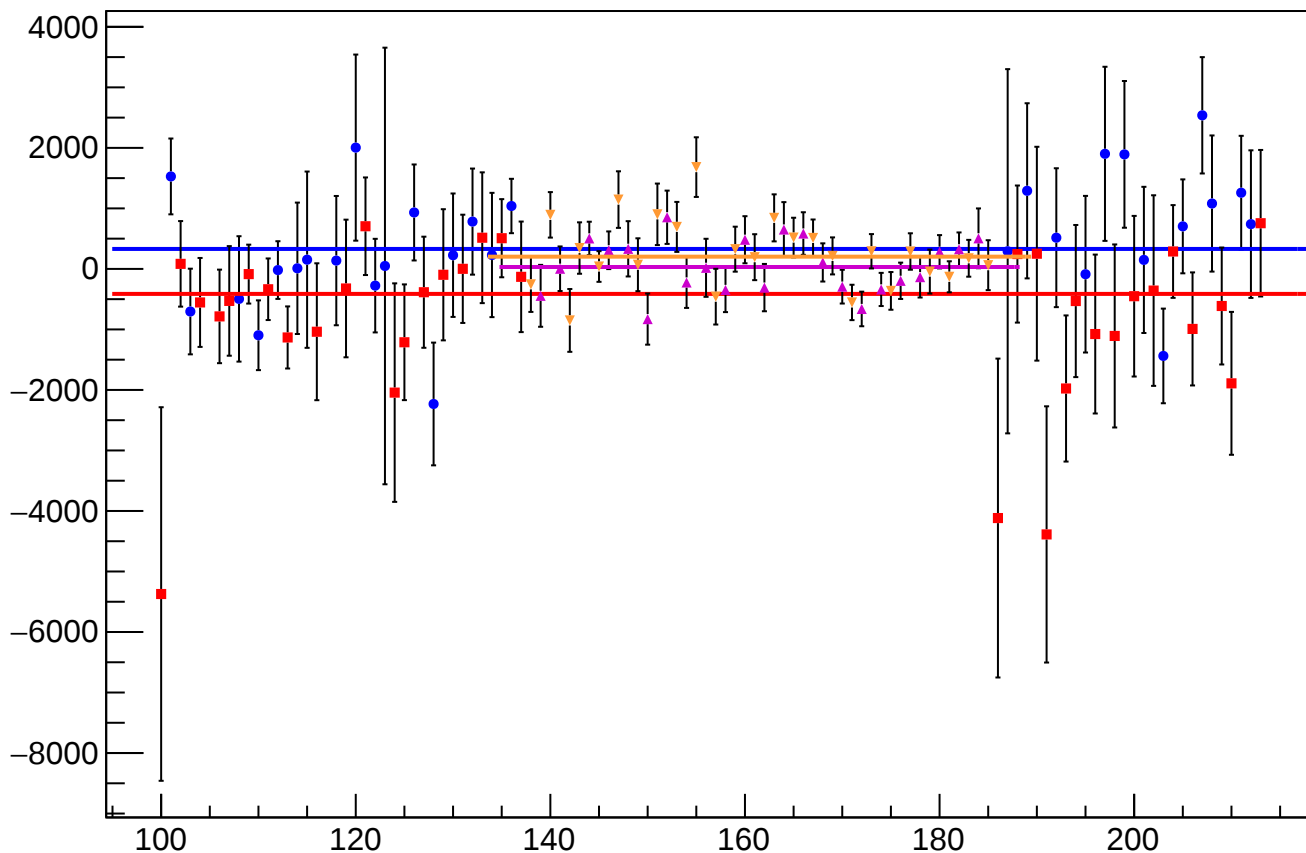
Right: 55.551 $\pm$ 0.007 χ^2 /NDF: 7917473.8/63

In: 43.938 $\pm$ 0.006 χ^2 /NDF: 5240510.1/52

Out: 43.964 $\pm$ 0.005 χ^2 /NDF: 6600008.4/58

All: 43.951 $\pm$ 0.004 χ^2 /NDF: 11840529.4/111

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 329.967 ± 160.650 χ^2/NDF : 40.4/29

Left Out: 202.369 ± 70.426 χ^2/NDF : 44.8/24

Right Out: -412.999 ± 156.051 χ^2/NDF : 24.6/33

Left In: 31.548 ± 72.100 χ^2/NDF : 33.4/22

Left: 118.965 ± 50.380 χ^2/NDF : 81.1/47

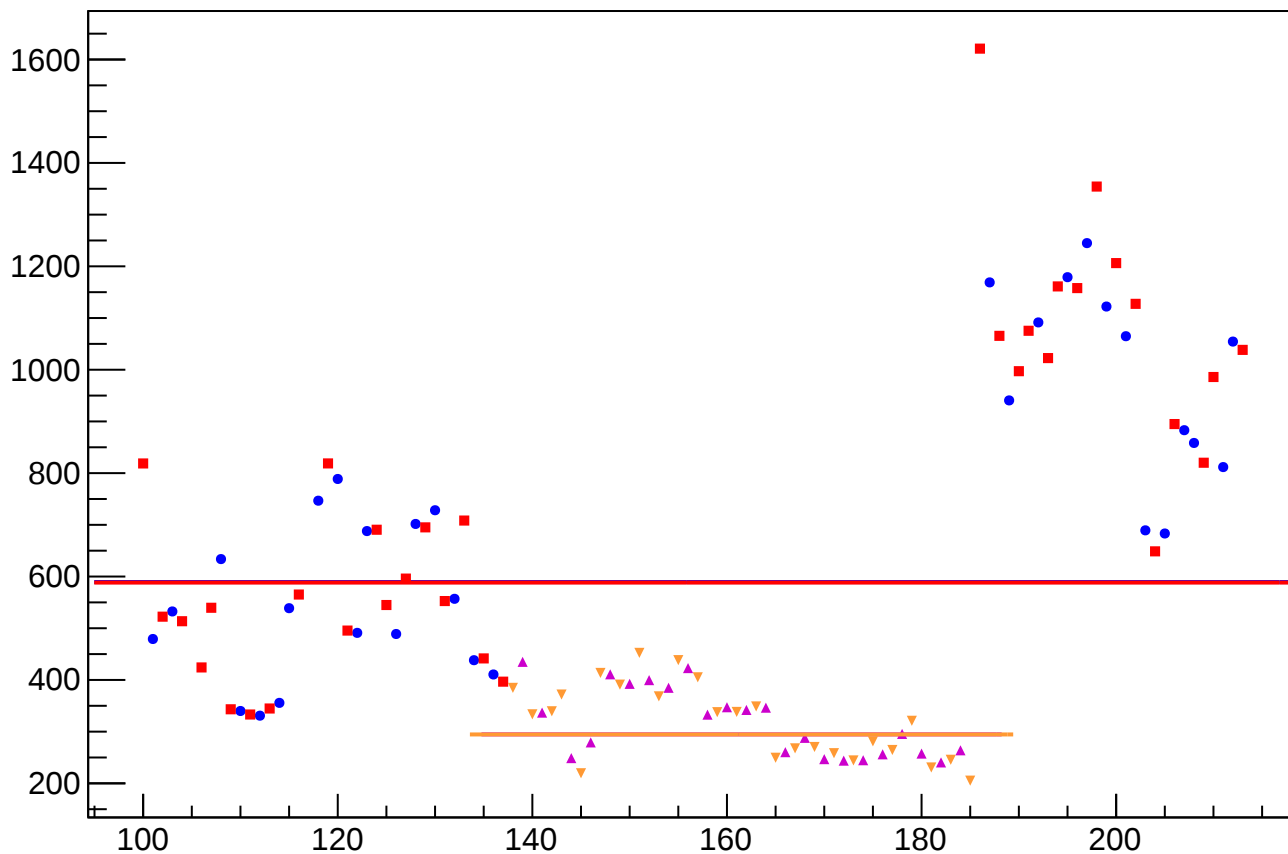
Right: -52.302 ± 111.935 χ^2/NDF : 76.0/63

In: 81.579 ± 65.779 χ^2/NDF : 76.6/52

Out: 98.244 ± 64.192 χ^2/NDF : 82.4/58

All: 90.115 ± 45.941 χ^2/NDF : 159.0/111

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 589.341+/-0.114 χ^2/NDF : 4571000.2/29

Left Out: 294.591+/-0.050 χ^2/NDF :1680474.5/24

Right Out: 588.356+/-0.110 χ^2/NDF : 5917644.2/33

Left In: 294.722+/-0.051 χ^2/NDF :1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

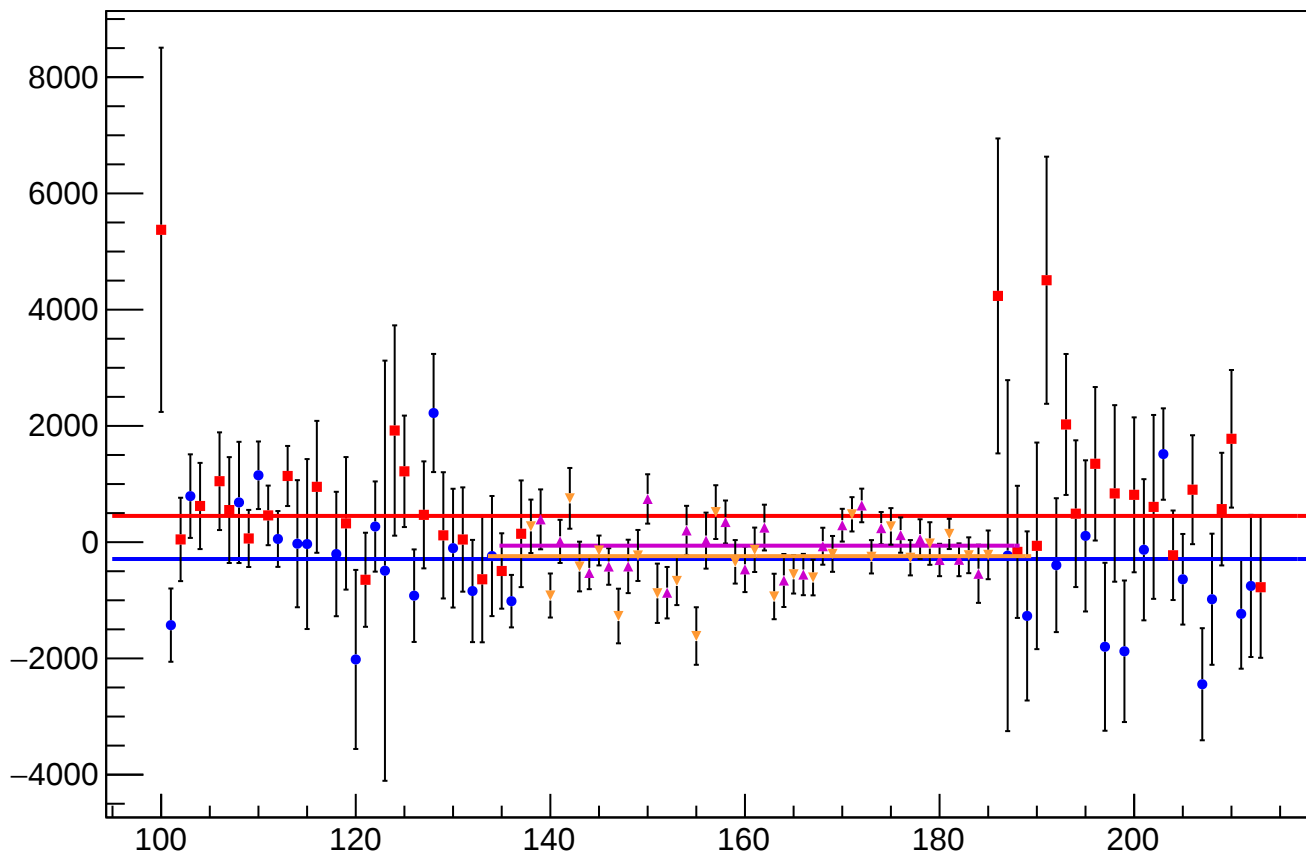
Right: 588.834+/-0.079 χ^2/NDF : 10488683.1/63

In: 344.116+/-0.047 χ^2/NDF :11467125.9/52

Out: 344.299+/-0.045 χ^2/NDF :13486382.9/58

All: 344.210+/-0.032 χ^2/NDF : 24953516.7/11

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -289.646 ± 161.554 $\chi^2/\text{NDF}: 40.0/29$

Left Out: -240.357 ± 71.100 $\chi^2/\text{NDF}: 42.9/24$

Right Out: 451.658 ± 157.448 $\chi^2/\text{NDF}: 24.2/33$

Left In: -60.330 ± 72.788 $\chi^2/\text{NDF}: 30.9/22$

Left: -152.455 ± 50.862 $\chi^2/\text{NDF}: 77.0/47$

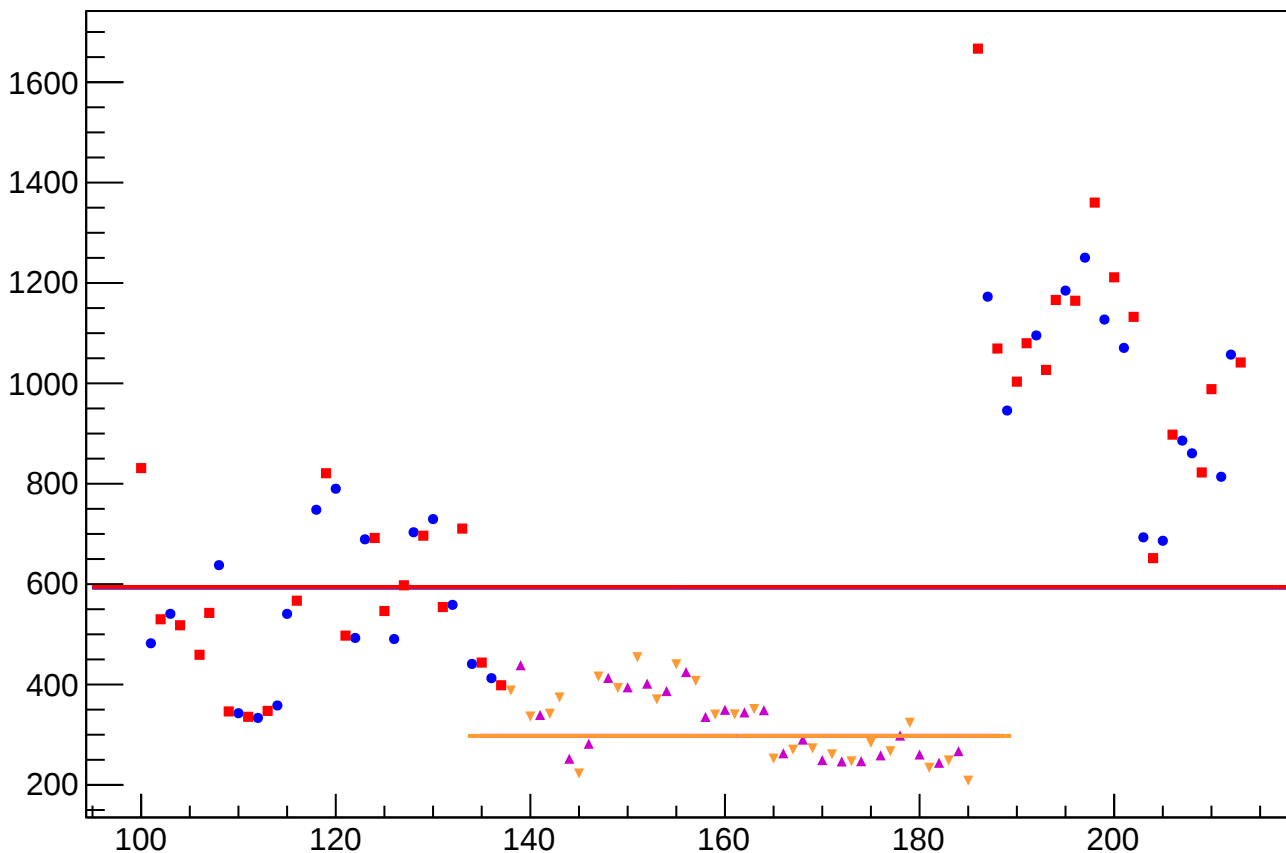
Right: 90.547 ± 112.756 $\chi^2/\text{NDF}: 75.0/63$

In: -99.025 ± 66.363 $\chi^2/\text{NDF}: 72.6/52$

Out: -123.141 ± 64.800 $\chi^2/\text{NDF}: 83.2/58$

All: -111.370 ± 46.363 $\chi^2/\text{NDF}: 155.9/111$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 592.981+/-0.114 χ^2/NDF : 4543297.0/29

Left Out: 297.613+/-0.050 χ^2/NDF : 1637757.8/24

Right Out: 594.297+/-0.111 χ^2/NDF : 5849283.7/33

Left In: 297.699+/-0.051 χ^2/NDF : 1266306.2/22

Left: 297.655+/-0.036 χ^2/NDF : 2904065.4/47

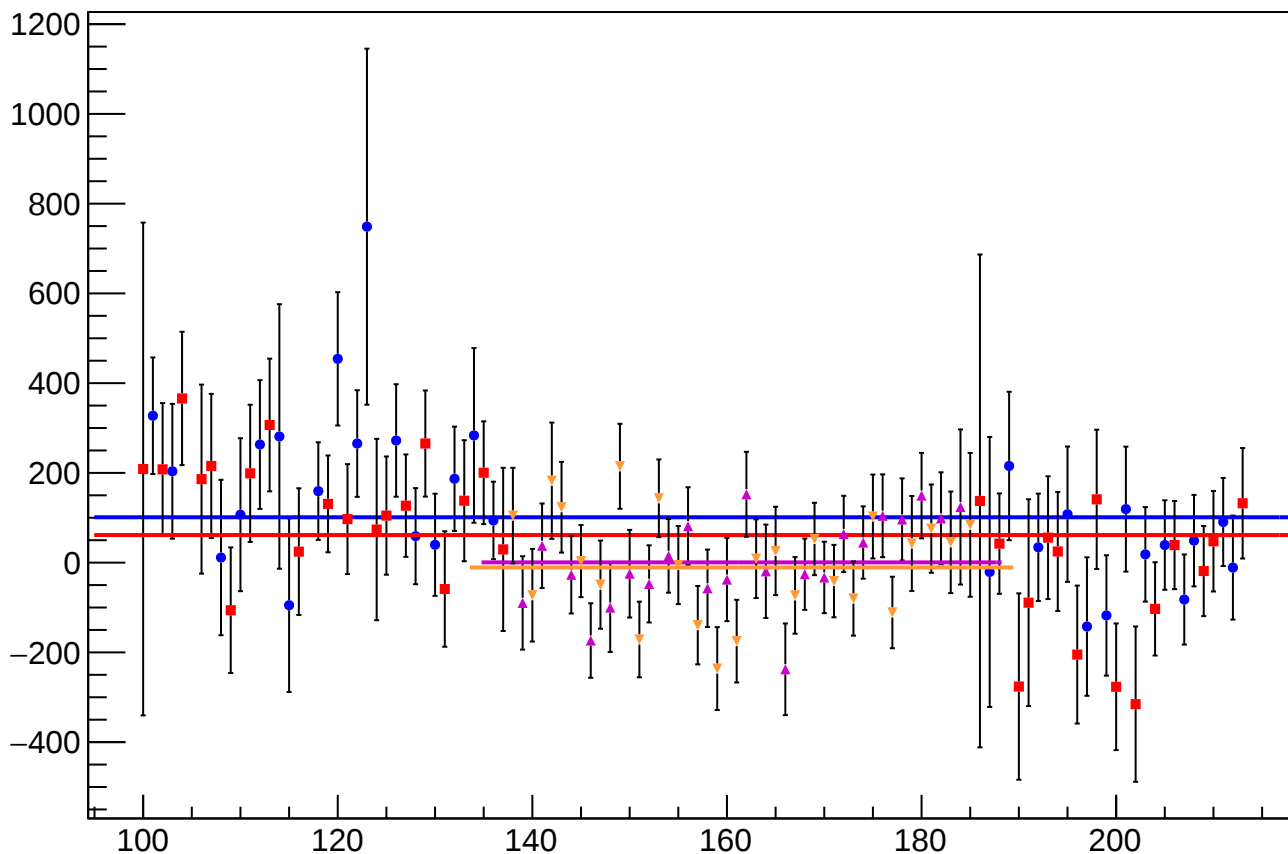
Right: 593.656+/-0.080 χ^2/NDF : 10392648.7/63

In: 347.525+/-0.047 χ^2/NDF : 11363570.9/52

Out: 347.866+/-0.046 χ^2/NDF : 13385568.1/58

All: 347.700+/-0.033 χ^2/NDF : 24749166.0/110

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 101.089 ± 23.552 χ^2/NDF : 32.4/29

Left Out: -10.667 ± 18.610 χ^2/NDF : 36.3/24

Right Out: 61.495 ± 23.607 χ^2/NDF : 38.7/33

Left In: 0.575 ± 19.091 χ^2/NDF : 23.8/22

Left: -5.190 ± 13.326 χ^2/NDF : 60.3/47

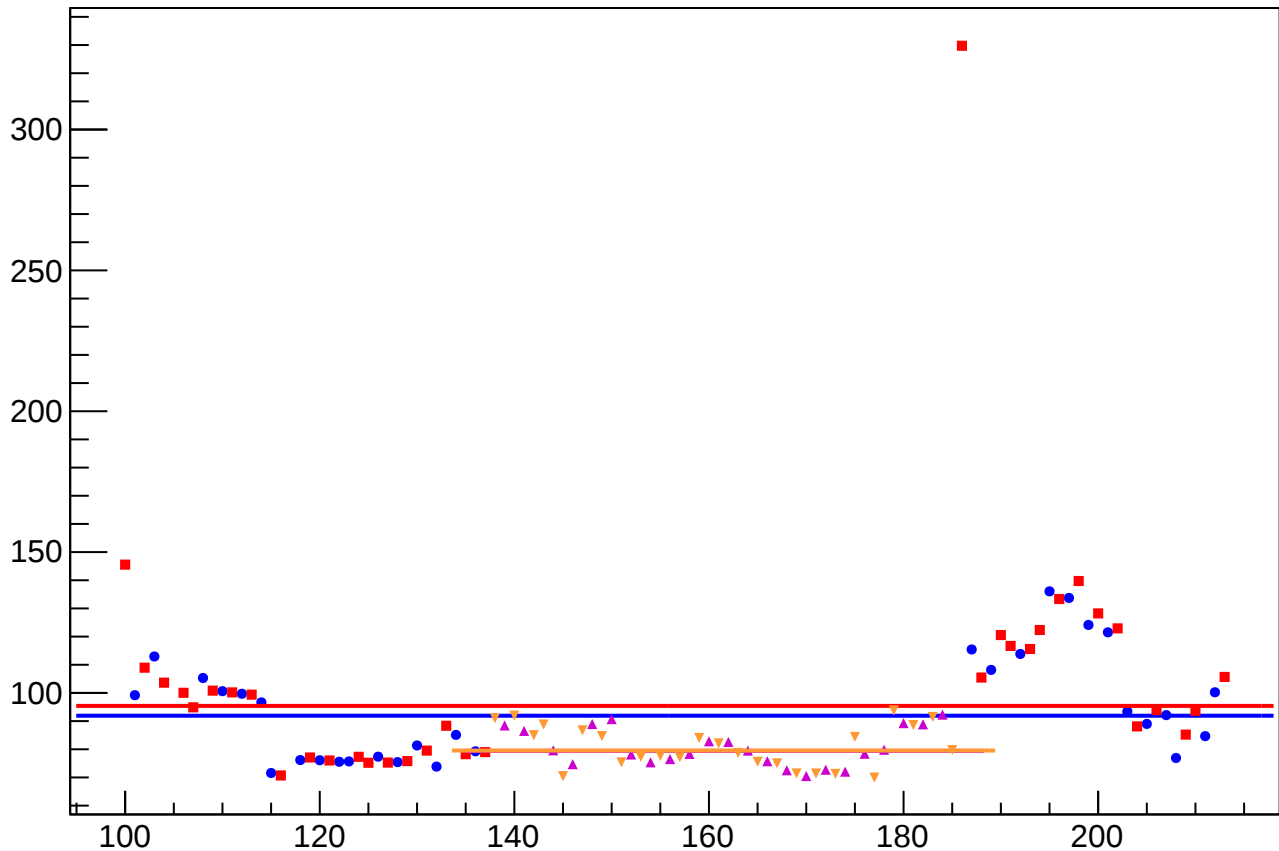
Right: 81.338 ± 16.673 χ^2/NDF : 72.5/63

In: 40.431 ± 14.831 χ^2/NDF : 67.1/52

Out: 16.990 ± 14.615 χ^2/NDF : 80.8/58

All: 28.538 ± 10.410 χ^2/NDF : 149.2/111

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 91.914 $\pm$ 0.017 χ^2 /NDF: 1071377.9/29

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF:309075.2/24

Right Out: 95.399 $\pm$ 0.017 χ^2 /NDF: 1535222.8/33

Left In: 79.436 $\pm$ 0.013 χ^2 /NDF:212440.1/22

Left: 79.495 $\pm$ 0.009 χ^2 /NDF: 521552.2/47

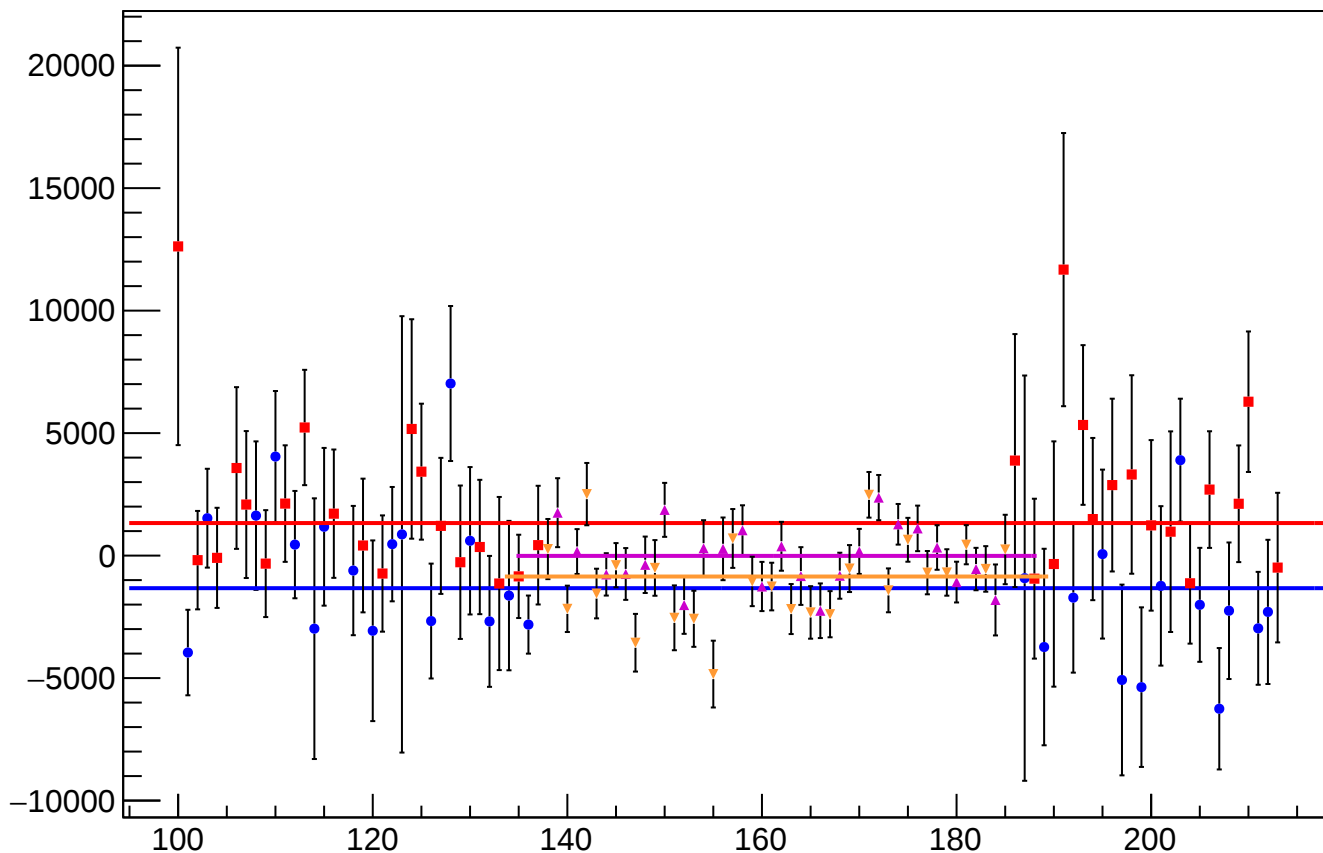
Right: 93.652 $\pm$ 0.012 χ^2 /NDF: 2628441.2/63

In: 84.384 $\pm$ 0.010 χ^2 /NDF:1622576.5/52

Out: 85.625 $\pm$ 0.010 χ^2 /NDF:2400184.6/58

All: 85.014 $\pm$ 0.007 χ^2 /NDF: 4029862.9/111

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1329.702 $\pm$ 477.369 χ^2 /NDF: 33.2/29

Left Out: -854.130 $\pm$ 204.090 χ^2 /NDF:56.0/24

Right Out: 1328.785 $\pm$ 482.824 χ^2 /NDF: 22.8/33

Left In: -11.687 $\pm$ 210.073 χ^2 /NDF:31.2/22

Left: -445.076 $\pm$ 146.383 χ^2 /NDF: 95.5/47

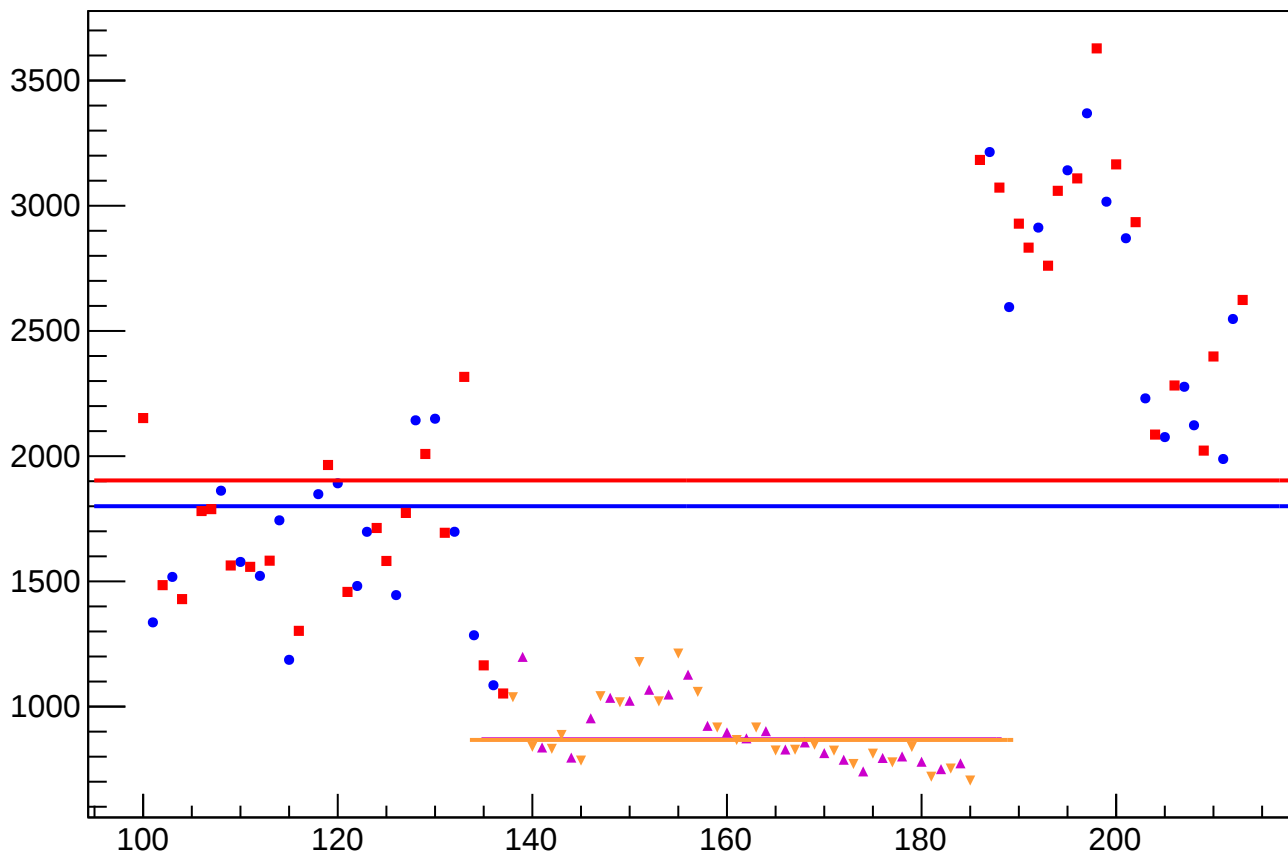
Right: -15.561 $\pm$ 339.463 χ^2 /NDF: 71.4/63

In: -225.520 $\pm$ 192.278 χ^2 /NDF:70.8/52

Out: -523.221 $\pm$ 187.986 χ^2 /NDF:96.1/58

All: -377.730 $\pm$ 134.418 χ^2 /NDF: 168.2/111

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1800.176+/-0.338 χ^2/NDF : 3077465.7/29

Left Out: 866.893+/-0.144 χ^2/NDF : 661712.5/24

Right Out: 1903.113+/-0.341 χ^2/NDF : 3331738.0/33

Left In: 869.569+/-0.149 χ^2/NDF : 582301.2/22

Left: 868.192+/-0.104 χ^2/NDF : 1244180.7/47

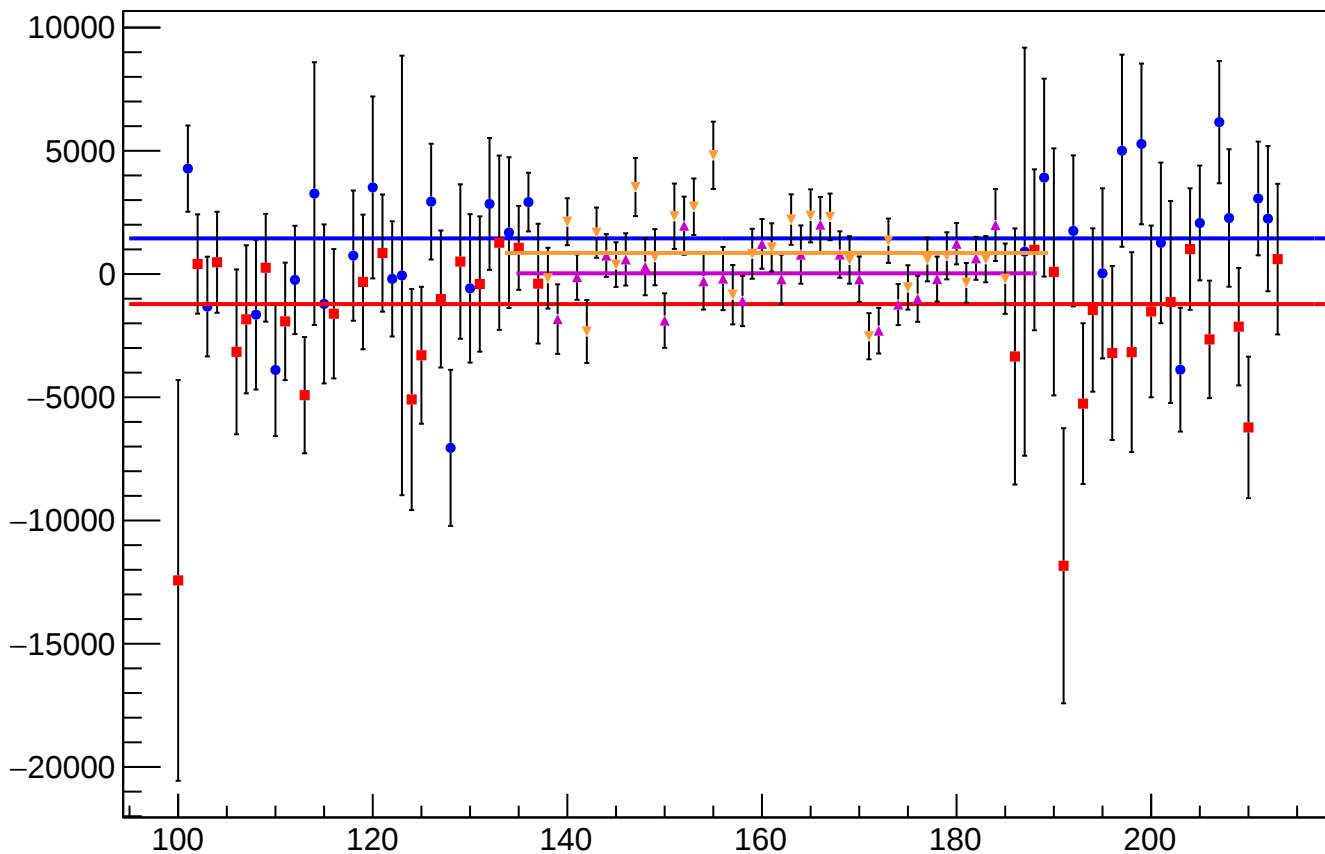
Right: 1851.060+/-0.240 χ^2/NDF : 6455173.9/63

In: 1020.549+/-0.136 χ^2/NDF : 10027357.7/52

Out: 1023.974+/-0.133 χ^2/NDF : 11809048.5/58

All: 1022.300+/-0.095 χ^2/NDF : 21836730.8/115

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1446.252 $\pm$ 478.169 χ^2 /NDF: 33.3/29

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF:54.1/24

Right Out: -1219.278 $\pm$ 483.711 χ^2 /NDF: 22.7/33

Left In: 28.553 $\pm$ 211.034 χ^2 /NDF:29.7/22

Left: 454.007 $\pm$ 147.061 χ^2 /NDF: 91.7/47

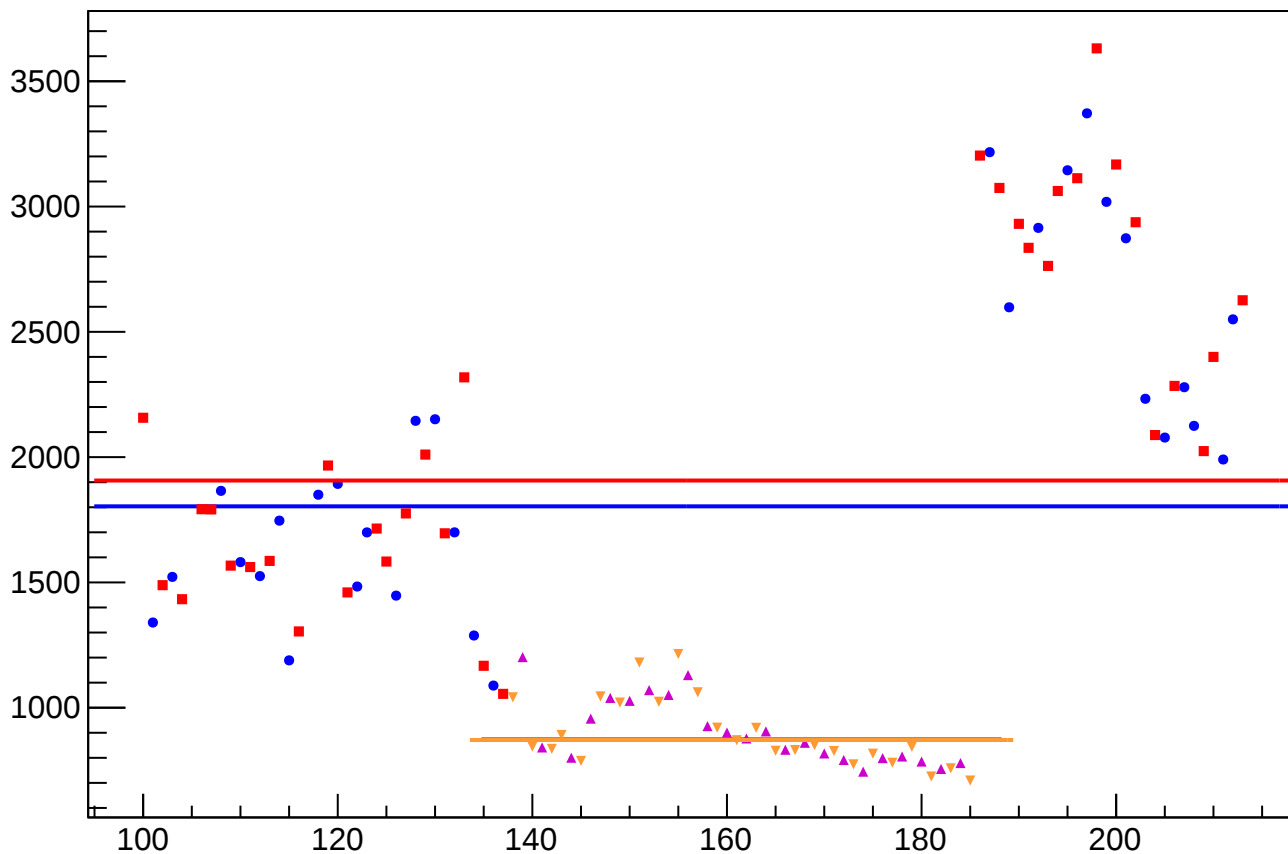
Right: 128.844 $\pm$ 340.059 χ^2 /NDF: 71.4/63

In: 259.673 $\pm$ 193.067 χ^2 /NDF:70.4/52

Out: 539.603 $\pm$ 188.785 χ^2 /NDF:92.4/58

All: 402.777 $\pm$ 134.980 χ^2 /NDF: 163.8/111

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1803.616 $\pm$ 0.338 χ^2 /NDF: 3064757.7/29

Left Out: 871.109 $\pm$ 0.145 χ^2 /NDF: 651751.1/24

Right Out: 1906.664 $\pm$ 0.342 χ^2 /NDF: 3322359.1/33

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

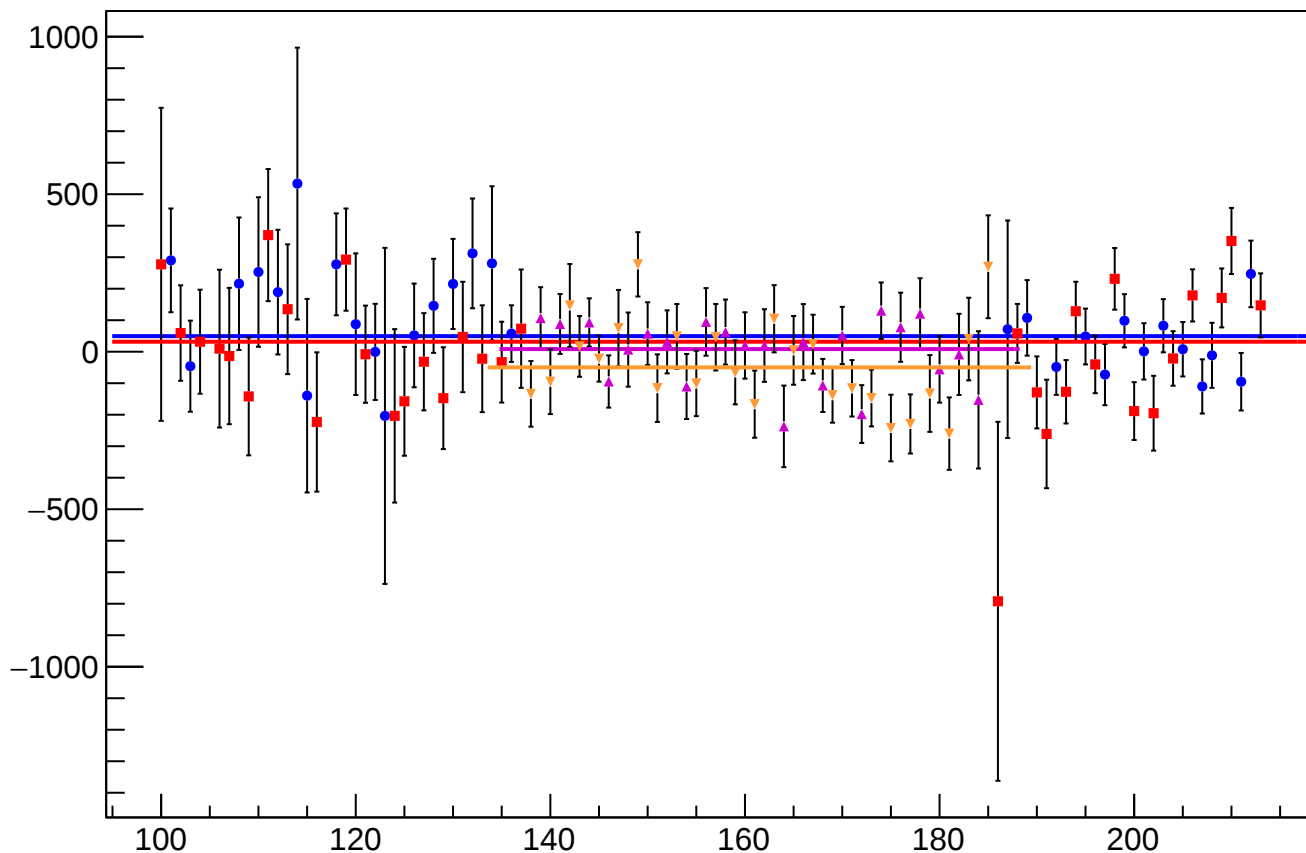
Right: 1854.547 $\pm$ 0.240 χ^2 /NDF: 6433023.9/63

In: 1025.279 $\pm$ 0.137 χ^2 /NDF: 9969856.3/52

Out: 1028.848 $\pm$ 0.133 χ^2 /NDF: 11744370.5/58

All: 1027.103 $\pm$ 0.095 χ^2 /NDF: 21714576.2/110

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 49.373+/-22.408 χ^2/NDF : 27.2/29

Left Out: -49.717+/-20.580 χ^2/NDF : 39.4/24

Right Out: 31.721+/-22.269 χ^2/NDF : 52.9/33

Left In: 8.343+/-21.271 χ^2/NDF : 22.0/22

Left: -21.646+/-14.791 χ^2/NDF : 65.3/47

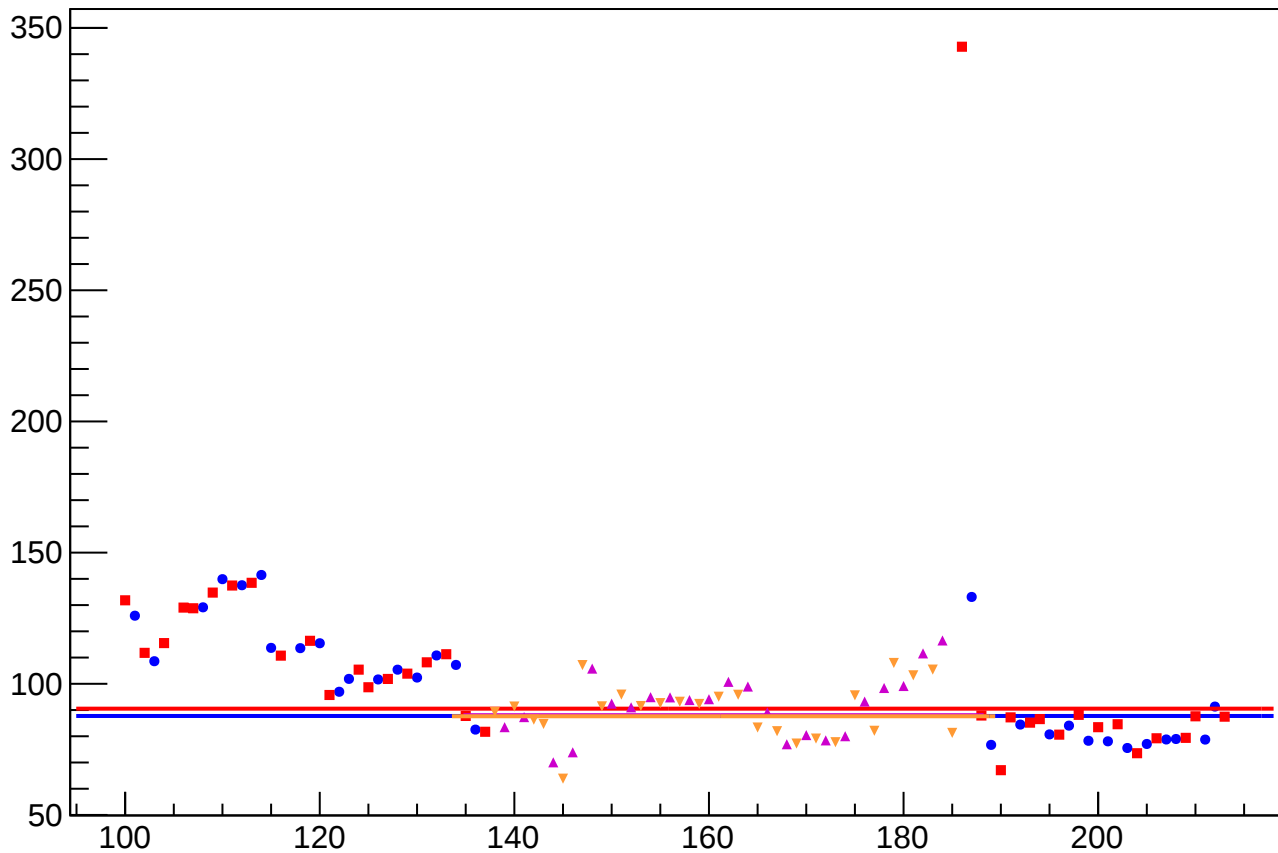
Right: 40.492+/-15.796 χ^2/NDF : 80.4/63

In: 27.791+/-15.427 χ^2/NDF : 50.9/52

Out: -12.204+/-15.114 χ^2/NDF : 99.5/58

All: 7.384+/-10.796 χ^2/NDF : 153.9/111

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 87.735 $\pm$ 0.016 χ^2 /NDF: 951833.9/29

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 90.523 $\pm$ 0.016 χ^2 /NDF: 1365022.3/33

Left In: 88.032 $\pm$ 0.015 χ^2 /NDF: 523710.9/22

Left: 87.822 $\pm$ 0.010 χ^2 /NDF: 1078779.2/47

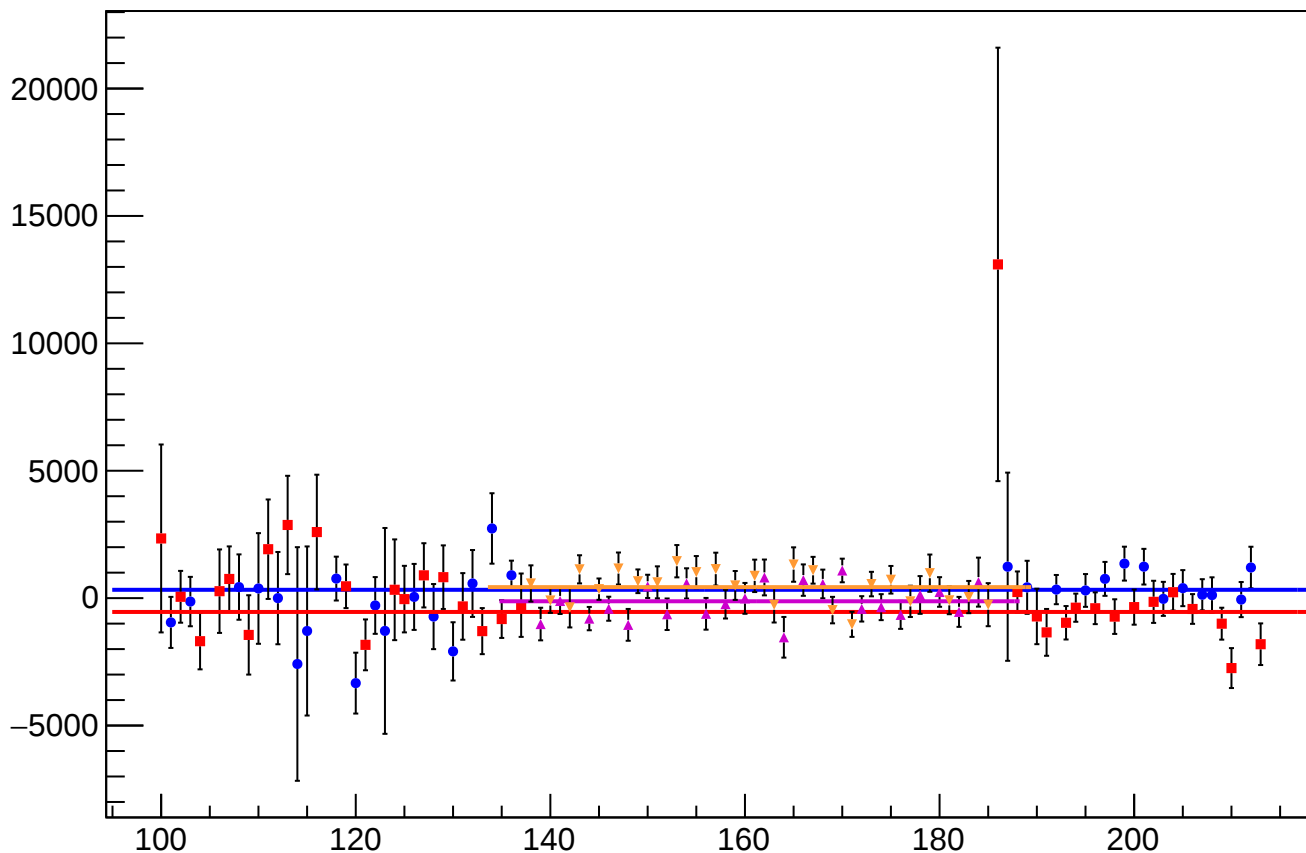
Right: 89.138 $\pm$ 0.011 χ^2 /NDF: 2332438.5/63

In: 87.891 $\pm$ 0.011 χ^2 /NDF: 1475730.2/52

Out: 88.960 $\pm$ 0.011 χ^2 /NDF: 1937977.7/58

All: 88.437 $\pm$ 0.008 χ^2 /NDF: 3418608.9/111

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 327.178+/-162.303 χ^2/NDF : 28.4/29

Left Out: 431.658+/-115.706 χ^2/NDF :30.5/24

Right Out: -542.101+/-156.613 χ^2/NDF : 34.4/33

Left In: -123.017+/-118.849 χ^2/NDF :29.3/22

Left: 161.753+/-82.905 χ^2/NDF : 70.9/47

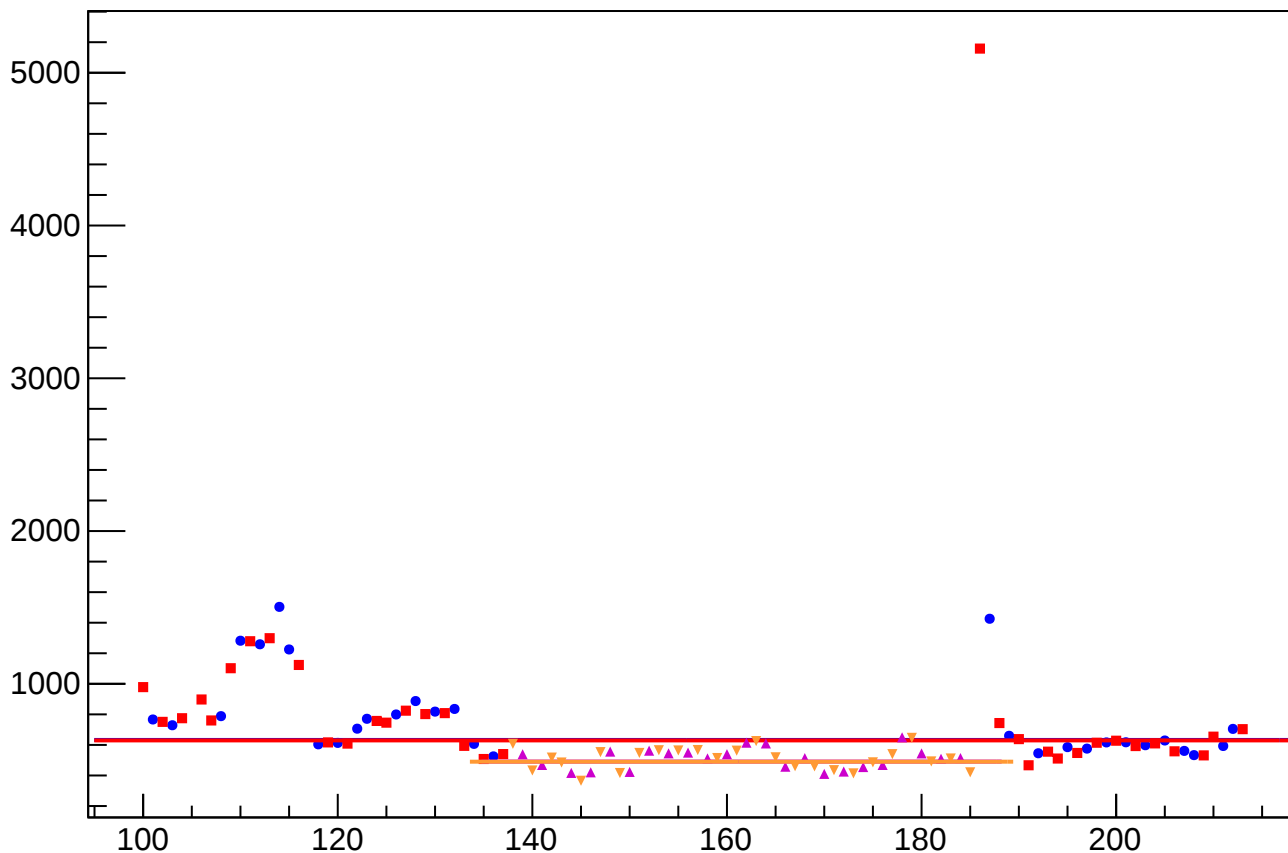
Right: -122.965+/-112.700 χ^2/NDF : 77.7/63

In: 34.124+/-95.889 χ^2/NDF :62.7/52

Out: 87.827+/-93.062 χ^2/NDF :89.9/58

All: 61.779+/-66.782 χ^2/NDF : 152.7/111

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 632.552 ± 0.115 χ^2/NDF : 1200120.3/29

Left Out: 490.267 ± 0.082 χ^2/NDF : 750277.0/24

Right Out: 629.630 ± 0.111 χ^2/NDF : 2038638.5/33

Left In: 490.910 ± 0.084 χ^2/NDF : 589235.5/22

Left: 490.580 ± 0.059 χ^2/NDF : 1339542.5/47

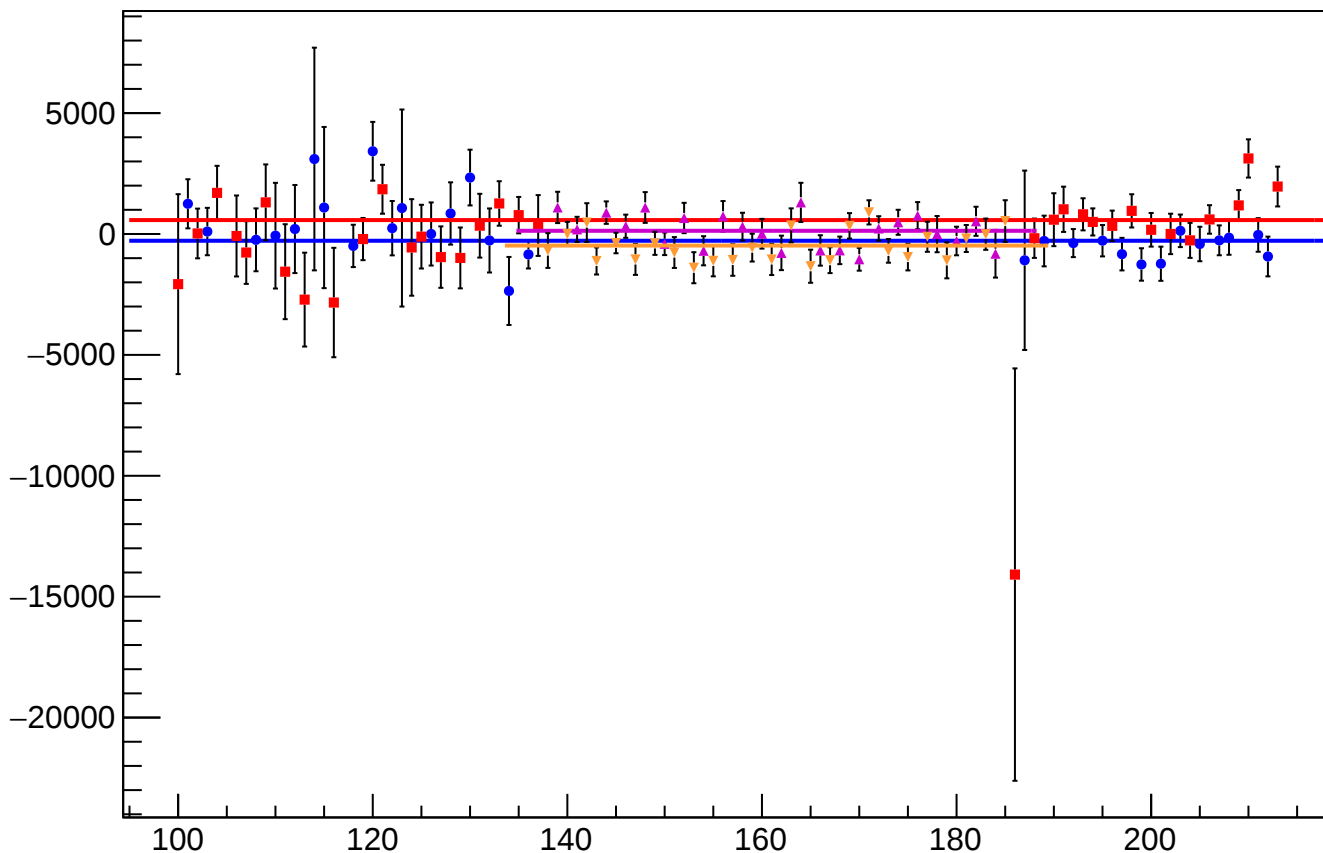
Right: 631.039 ± 0.080 χ^2/NDF : 3239094.5/63

In: 540.350 ± 0.068 χ^2/NDF : 2780899.2/52

Out: 539.475 ± 0.066 χ^2/NDF : 3813403.4/58

All: 539.899 ± 0.047 χ^2/NDF : 6594388.3/111

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -279.695 $\pm$ 164.012 χ^2 /NDF: 27.8/29

Left Out: -478.197 $\pm$ 117.659 χ^2 /NDF:27.8/24

Right Out: 575.274 $\pm$ 158.404 χ^2 /NDF: 37.2/33

Left In: 132.543 $\pm$ 120.866 χ^2 /NDF:29.5/22

Left: -181.037 $\pm$ 84.308 χ^2 /NDF: 70.5/47

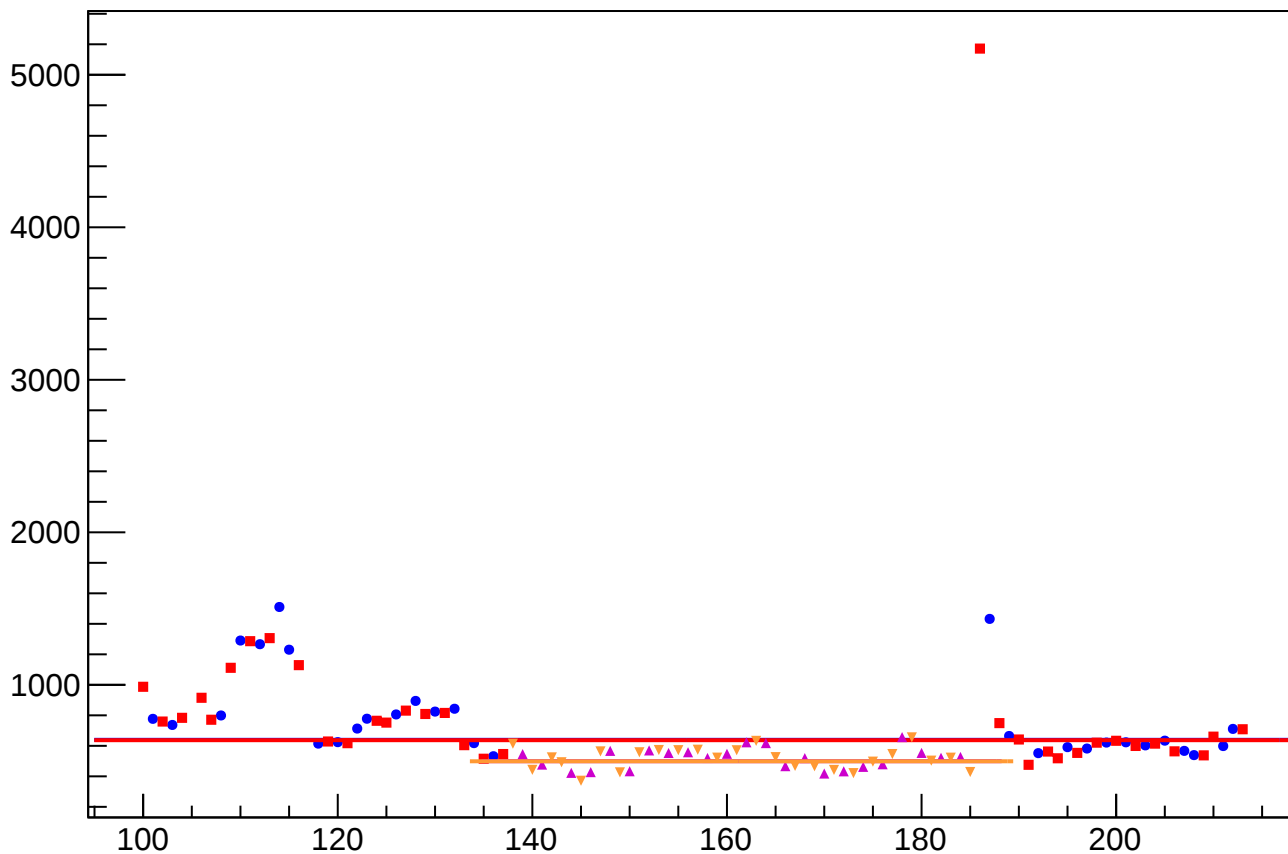
Right: 162.656 $\pm$ 113.940 χ^2 /NDF: 79.1/63

In: -12.541 $\pm$ 97.300 χ^2 /NDF:61.5/52

Out: -103.632 $\pm$ 94.454 χ^2 /NDF:93.5/58

All: -59.438 $\pm$ 67.773 χ^2 /NDF: 155.4/111

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 639.380+/-0.116 χ^2/NDF : 1189043.9/29

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 637.075+/-0.112 χ^2/NDF : 2017452.6/33

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

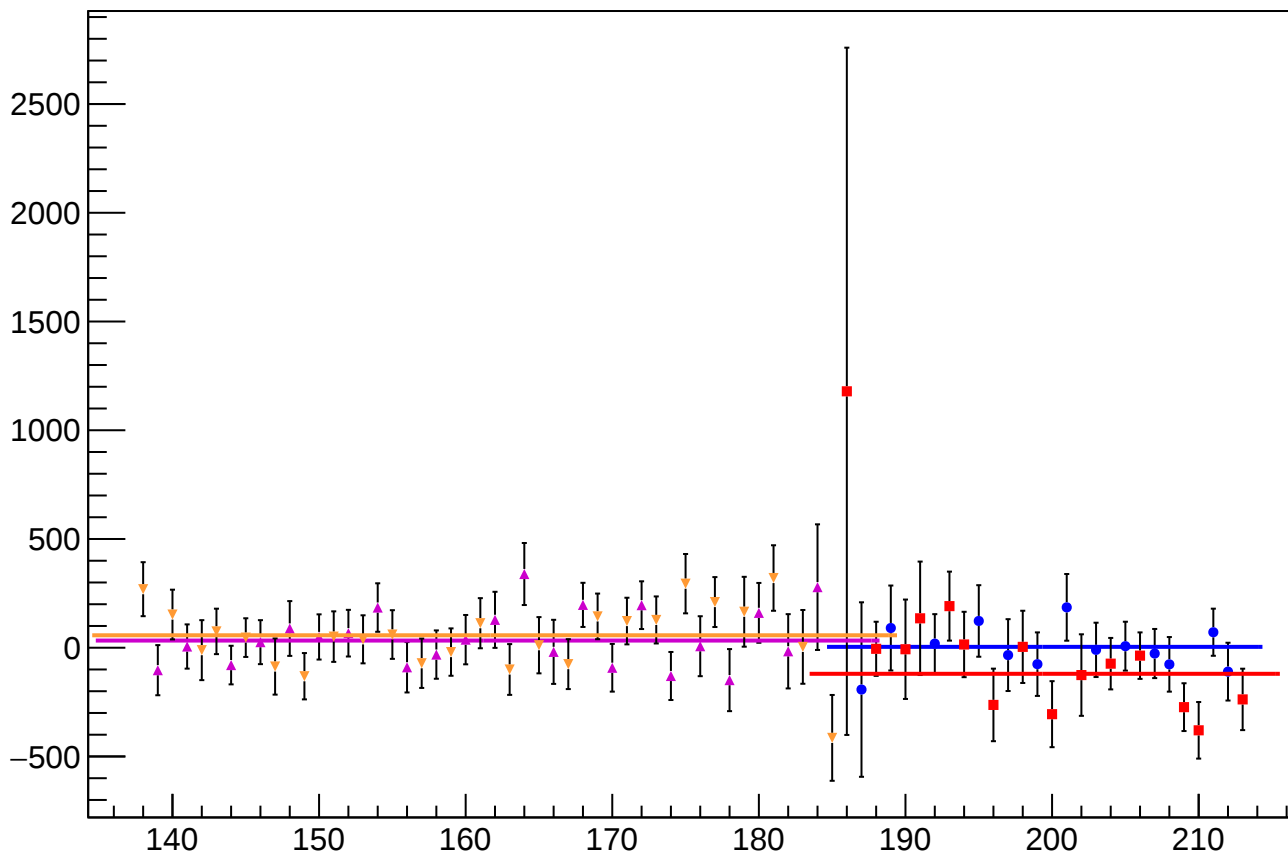
Right: 638.187+/-0.081 χ^2/NDF : 3206701.0/63

In: 548.660+/-0.069 χ^2/NDF : 2709798.7/52

Out: 547.935+/-0.067 χ^2/NDF : 3734535.0/58

All: 548.287+/-0.048 χ^2/NDF : 6444391.0/111

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 3.999 ± 38.441 χ^2/NDF : 4.3/12

Left Out: 57.211 ± 23.714 χ^2/NDF : 29.2/24

Right Out: -119.913 ± 38.406 χ^2/NDF : 17.6/14

Left In: 32.948 ± 24.587 χ^2/NDF : 23.6/22

Left: 45.518 ± 17.069 χ^2/NDF : 53.3/47

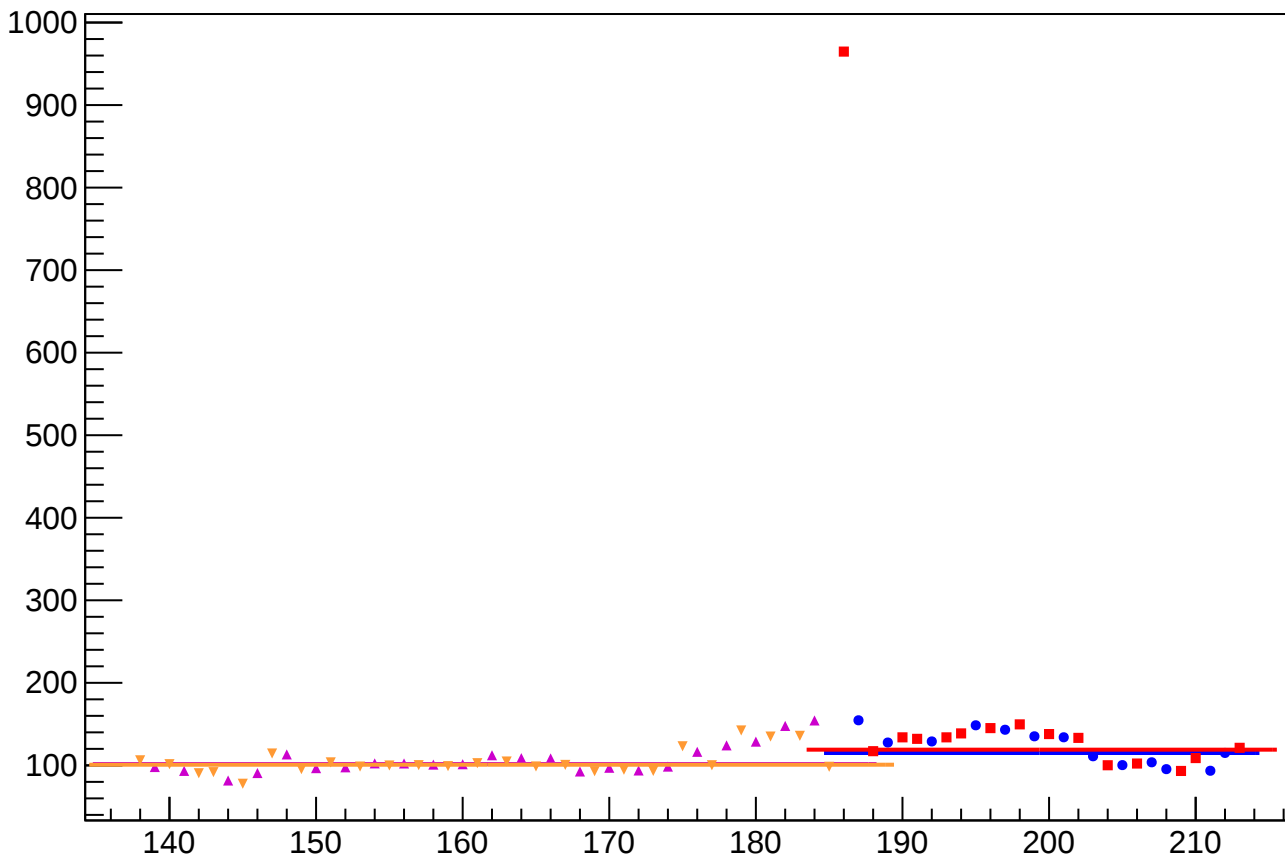
Right: -58.014 ± 27.169 χ^2/NDF : 27.1/27

In: 24.544 ± 20.713 χ^2/NDF : 28.4/35

Out: 8.322 ± 20.177 χ^2/NDF : 62.2/39

All: 16.220 ± 14.453 χ^2/NDF : 90.8/75

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 114.995 $\pm$ 0.027 χ^2 /NDF: 443204.0/12

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF:600502.4/24

Right Out: 119.020 $\pm$ 0.027 χ^2 /NDF: 1022239.2/14

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

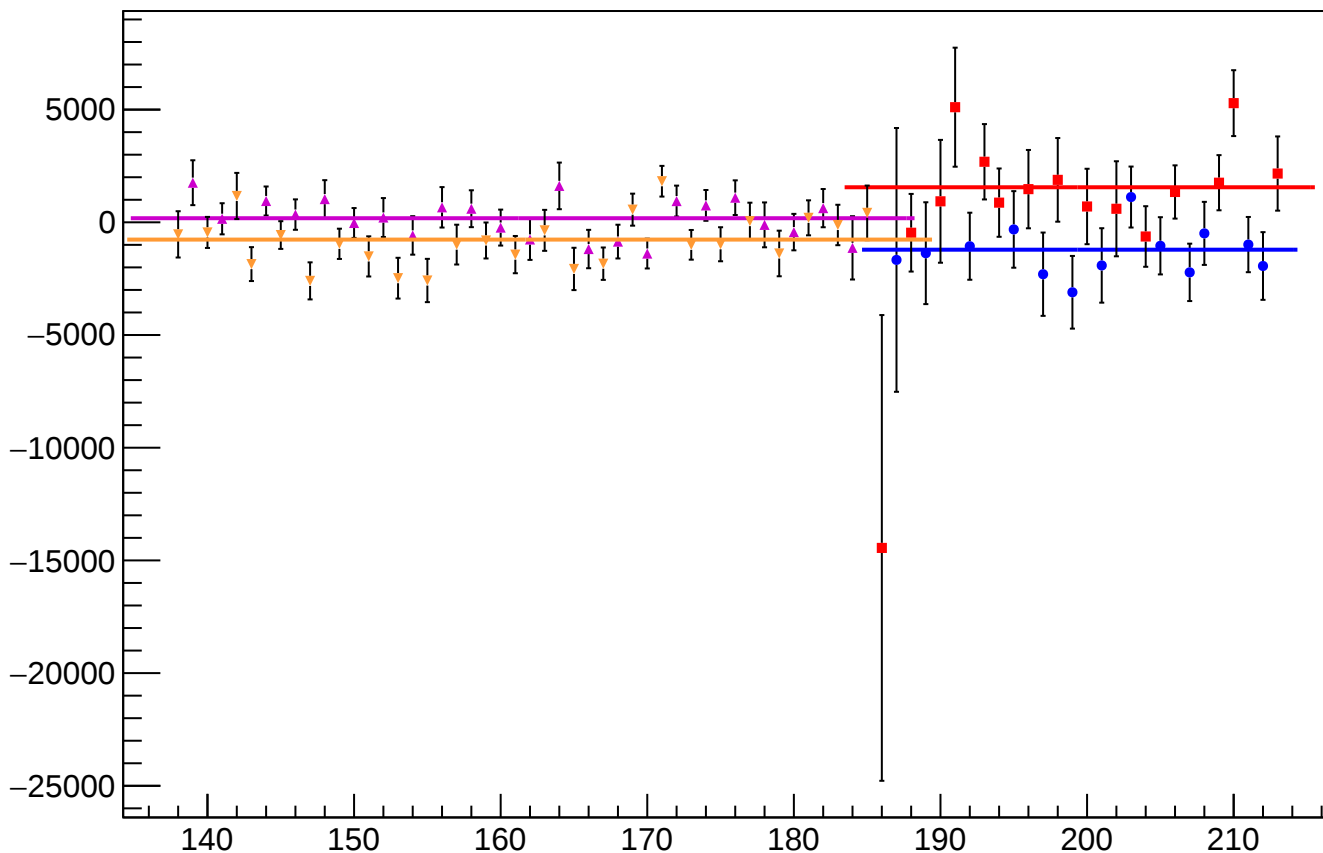
Right: 117.010 $\pm$ 0.019 χ^2 /NDF: 1476417.8/27

In: 105.504 $\pm$ 0.015 χ^2 /NDF:1197317.2/35

Out: 105.829 $\pm$ 0.014 χ^2 /NDF:1948621.3/39

All: 105.671 $\pm$ 0.010 χ^2 /NDF: 3146191.3/75

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1214.655 ± 427.446 $\chi^2/\text{NDF}: 6.4/12$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 1554.933 ± 430.462 $\chi^2/\text{NDF}: 16.2/14$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

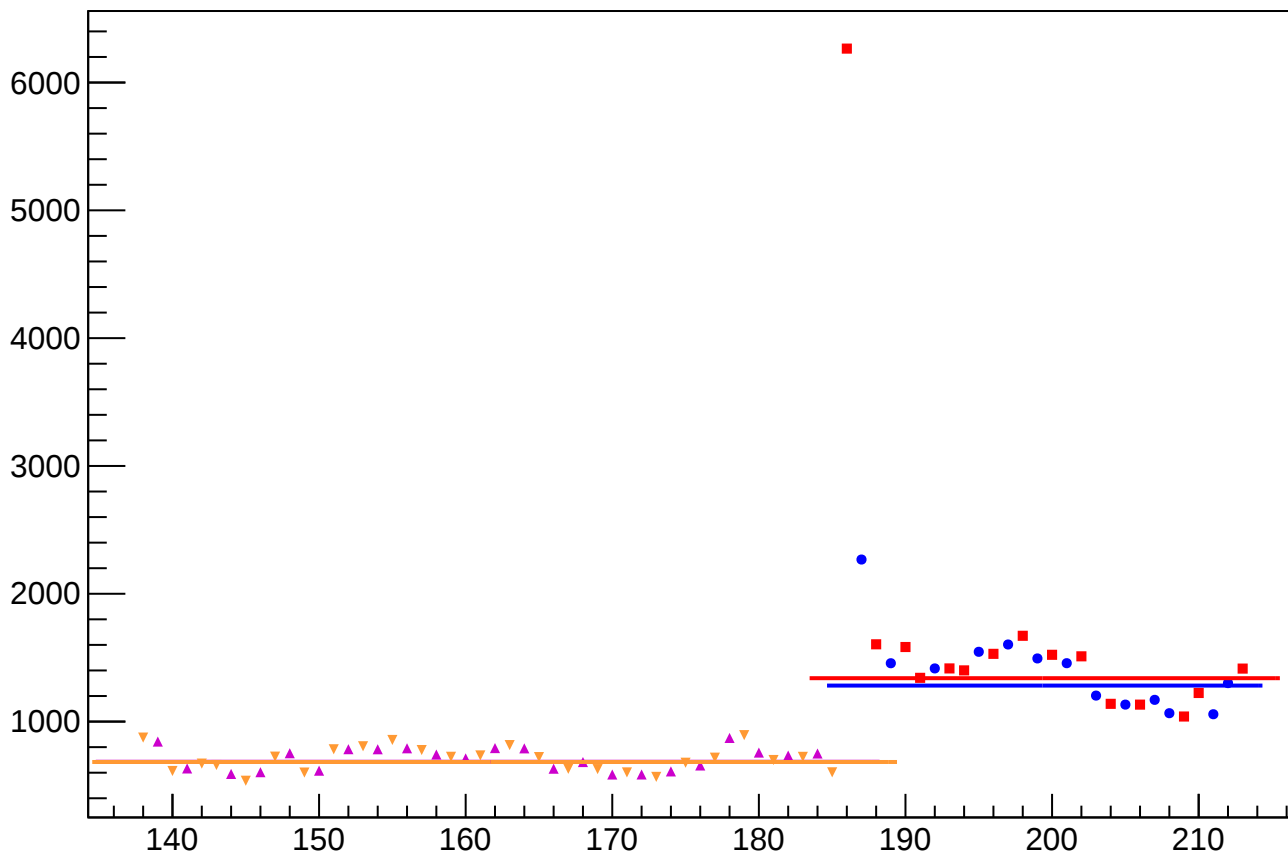
Right: 160.403 ± 303.310 $\chi^2/\text{NDF}: 43.4/27$

In: -0.767 ± 154.474 $\chi^2/\text{NDF}: 40.6/35$

Out: -481.280 ± 150.852 $\chi^2/\text{NDF}: 88.2/39$

All: -246.723 ± 107.926 $\chi^2/\text{NDF}: 133.8/75$

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1281.702 $\pm$ 0.302 χ^2 /NDF: 415798.4/12

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1339.475 $\pm$ 0.304 χ^2 /NDF: 893203.0/14

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

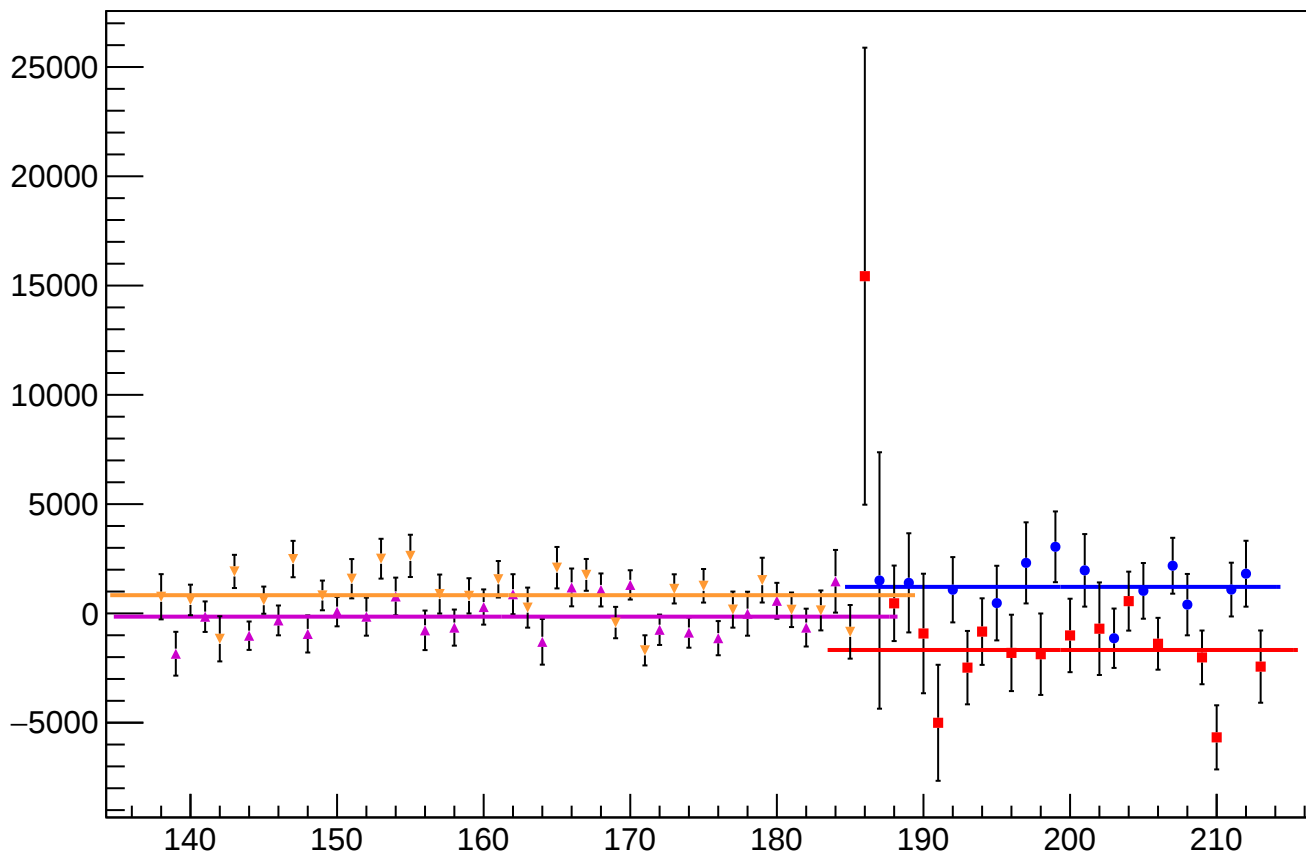
Right: 1310.385 $\pm$ 0.214 χ^2 /NDF: 1327140.8/27

In: 763.446 $\pm$ 0.109 χ^2 /NDF: 4326874.2/35

Out: 764.397 $\pm$ 0.107 χ^2 /NDF: 5629663.8/39

All: 763.933 $\pm$ 0.076 χ^2 /NDF: 9956576.9/75

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1213.825 ± 429.234 χ^2/NDF : 6.1/12

Left Out: 833.395 ± 162.965 χ^2/NDF : 43.2/24

Right Out: -1673.621 ± 432.277 χ^2/NDF : 17.3/14

Left In: -148.814 ± 167.644 χ^2/NDF : 26.0/22

Left: 356.189 ± 116.853 χ^2/NDF : 86.9/47

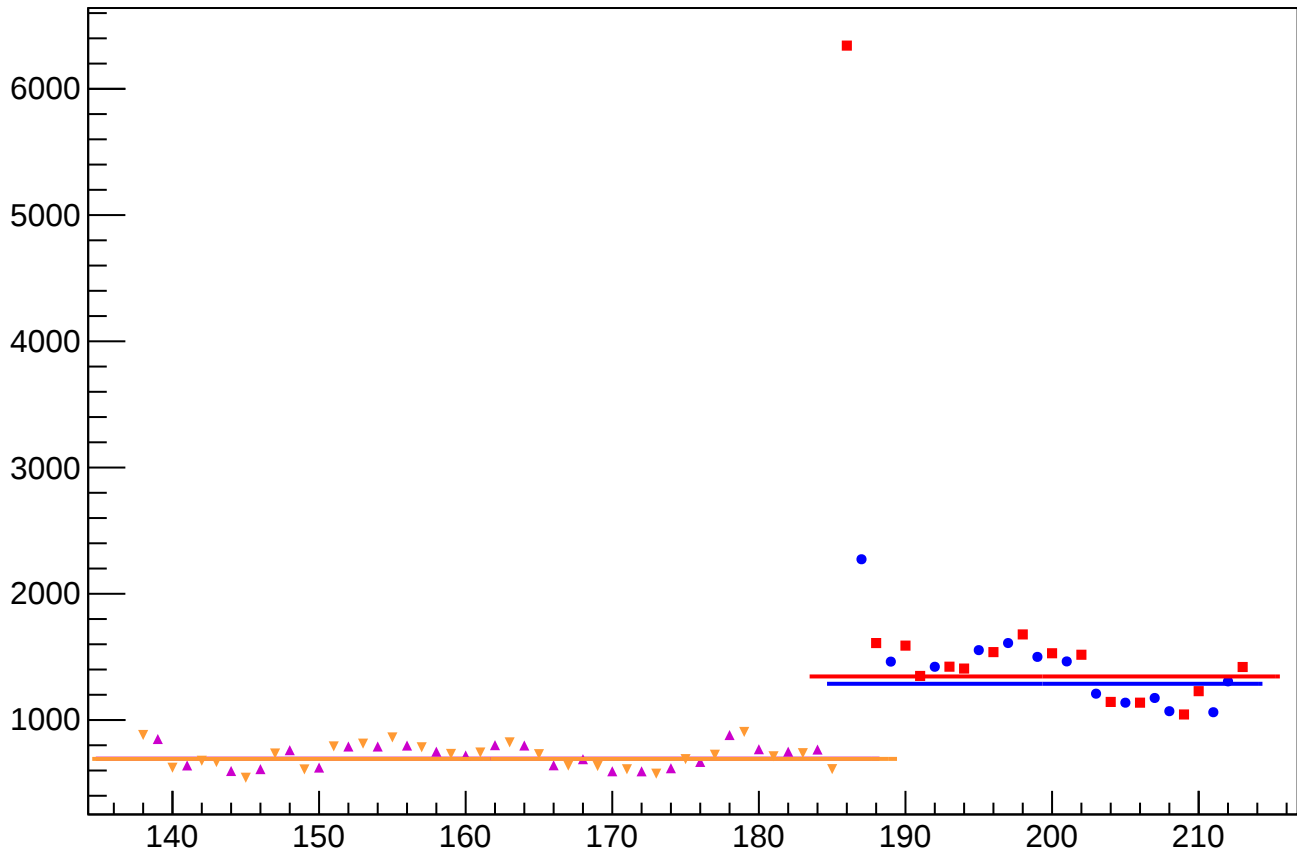
Right: -219.699 ± 304.584 χ^2/NDF : 45.9/27

In: 31.535 ± 156.156 χ^2/NDF : 40.9/35

Out: 521.427 ± 152.489 χ^2/NDF : 90.0/39

All: 282.302 ± 109.099 χ^2/NDF : 135.9/75

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1287.052+/-0.304 χ^2/NDF : 416480.8/12

Left Out: 692.097+/-0.115 χ^2/NDF : 657259.6/24

Right Out: 1345.081+/-0.306 χ^2/NDF : 895630.8/14

Left In: 693.867+/-0.119 χ^2/NDF : 522053.5/22

Left: 692.957+/-0.083 χ^2/NDF : 1179427.7/47

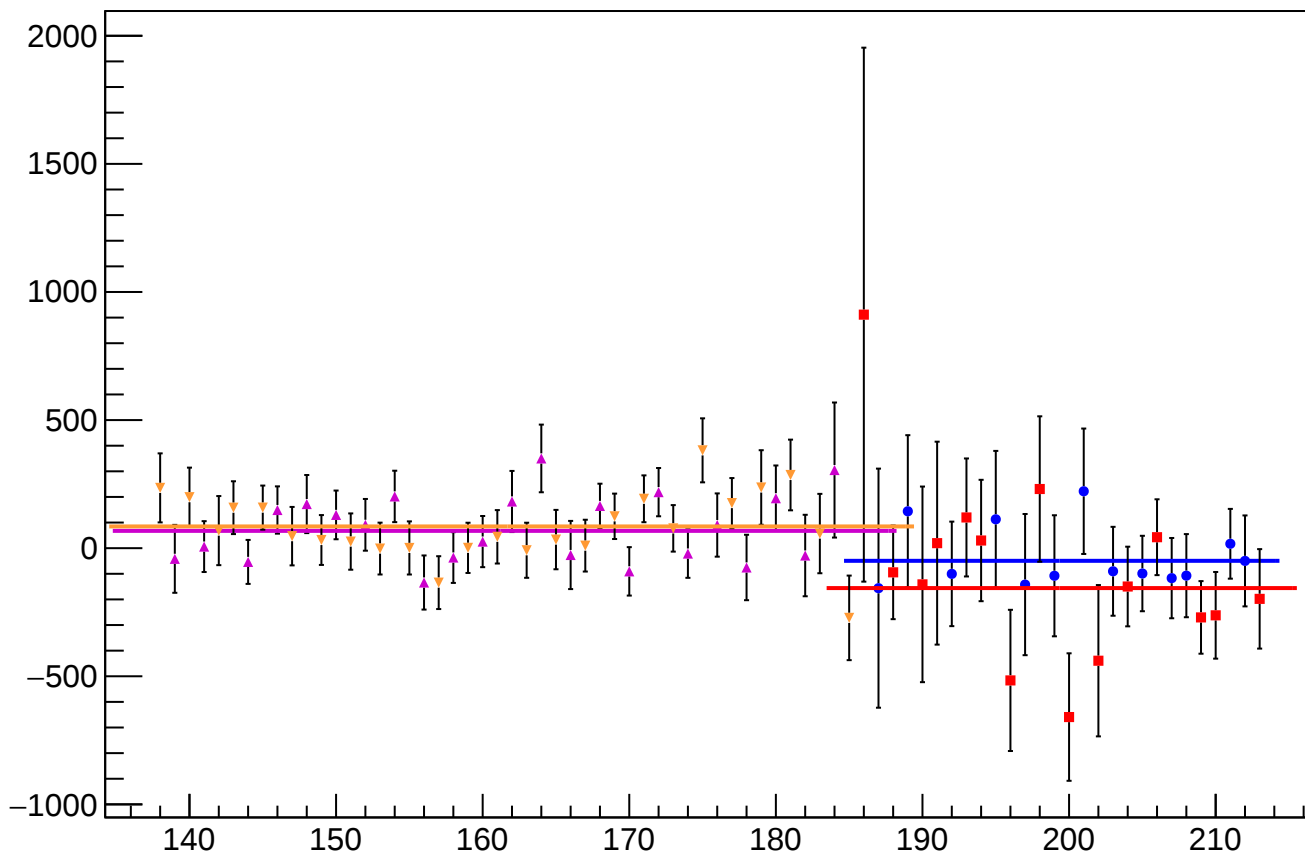
Right: 1315.862+/-0.215 χ^2/NDF : 1330258.9/27

In: 772.377+/-0.110 χ^2/NDF : 4252641.6/35

Out: 773.353+/-0.108 χ^2/NDF : 5548640.6/39

All: 772.876+/-0.077 χ^2/NDF : 9801322.1/75

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -49.368 ± 53.800 χ^2/NDF : 3.0/12

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -155.758 ± 54.856 χ^2/NDF : 14.9/14

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

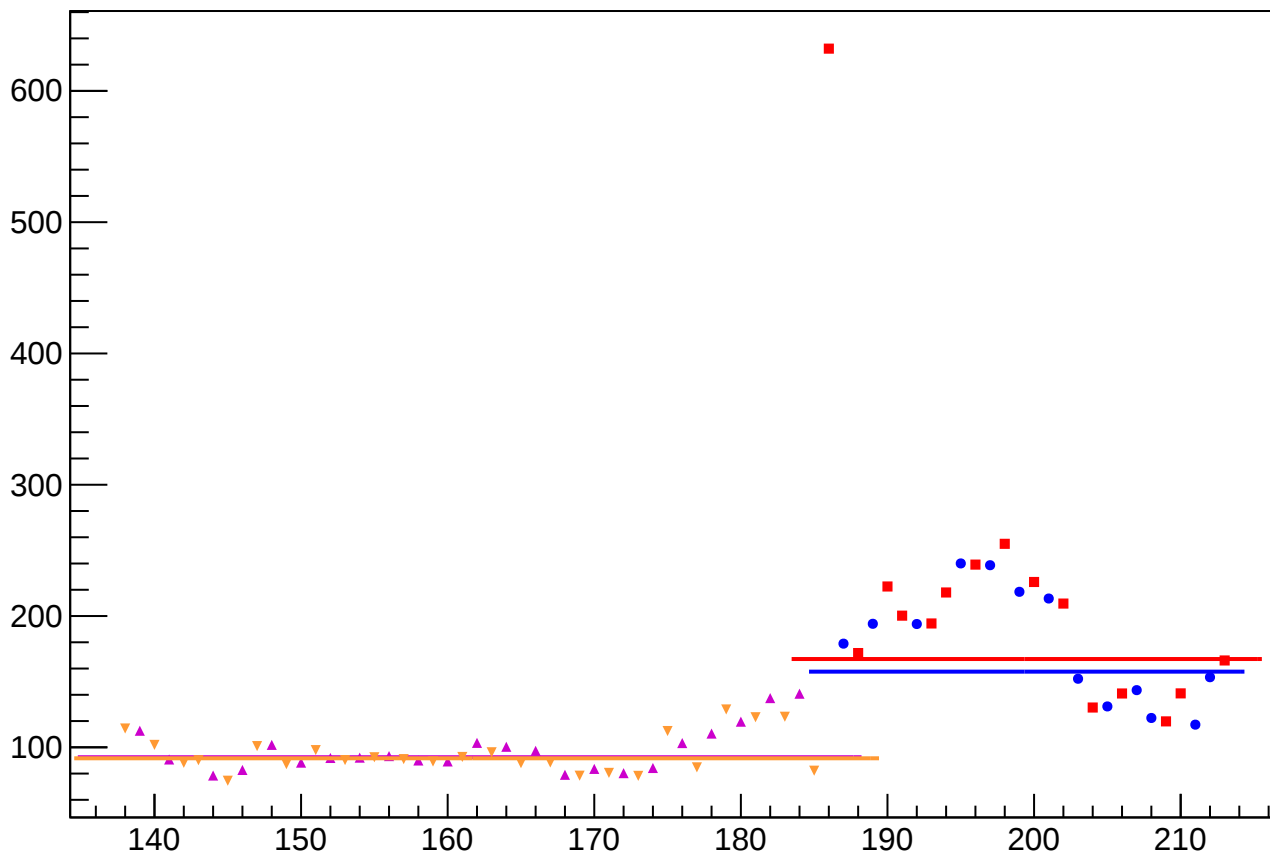
Right: -101.529 ± 38.410 χ^2/NDF : 19.8/27

In: 50.213 ± 20.718 χ^2/NDF : 35.9/35

Out: 52.449 ± 20.133 χ^2/NDF : 60.0/39

All: 51.363 ± 14.438 χ^2/NDF : 95.9/75

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 157.634 $\pm$ 0.038 χ^2 /NDF: 1051908.0/12

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 167.249 $\pm$ 0.039 χ^2 /NDF: 1502756.0/14

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

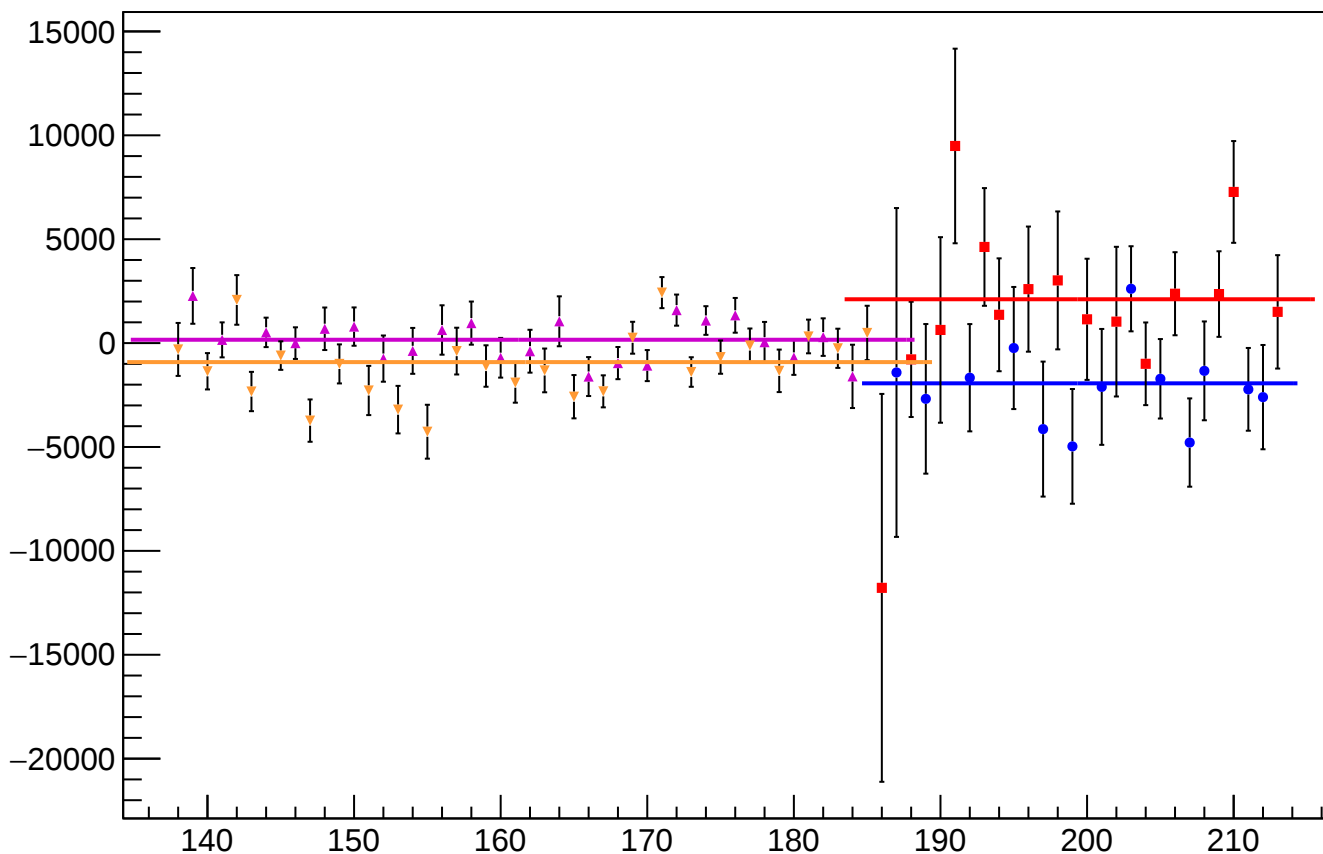
Right: 162.348 $\pm$ 0.027 χ^2 /NDF: 2585984.2/27

In: 102.130 $\pm$ 0.015 χ^2 /NDF: 4206962.2/35

Out: 101.818 $\pm$ 0.014 χ^2 /NDF: 5484310.2/39

All: 101.970 $\pm$ 0.010 χ^2 /NDF: 9691506.0/75

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -1936.263 ± 701.123 $\chi^2/\text{NDF}: 9.0/12$

Left Out: -914.719 ± 185.341 $\chi^2/\text{NDF}: 64.2/24$

Right Out: 2109.498 ± 719.285 $\chi^2/\text{NDF}: 14.0/14$

Left In: 161.076 ± 189.491 $\chi^2/\text{NDF}: 25.1/22$

Left: -388.730 ± 132.499 $\chi^2/\text{NDF}: 105.7/47$

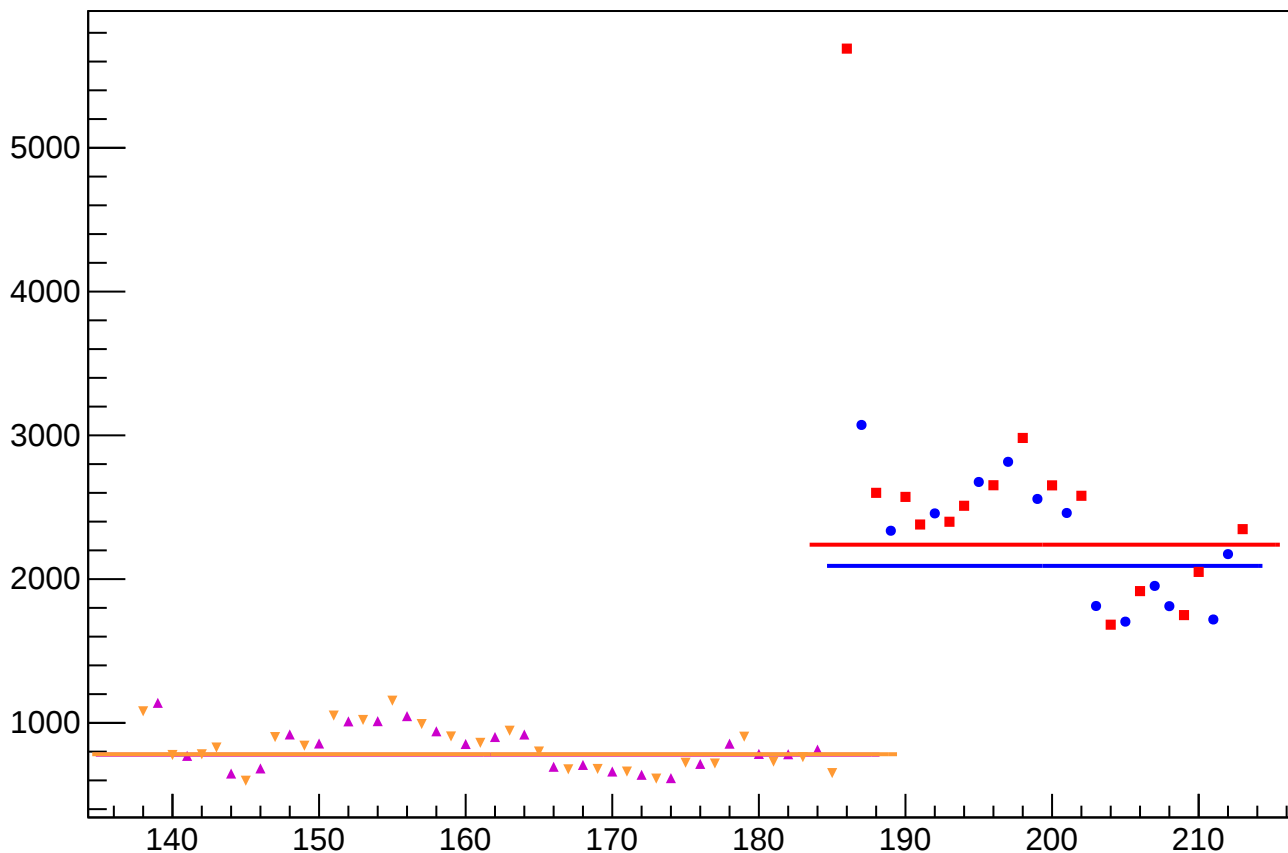
Right: 34.896 ± 502.067 $\chi^2/\text{NDF}: 39.2/27$

In: 18.306 ± 182.927 $\chi^2/\text{NDF}: 42.4/35$

Out: -726.426 ± 179.478 $\chi^2/\text{NDF}: 94.8/39$

All: -361.147 ± 128.112 $\chi^2/\text{NDF}: 145.6/75$

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2092.106 $\pm$ 0.496 χ^2 /NDF: 577760.8/12

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2239.506 $\pm$ 0.509 χ^2 /NDF: 878705.3/14

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

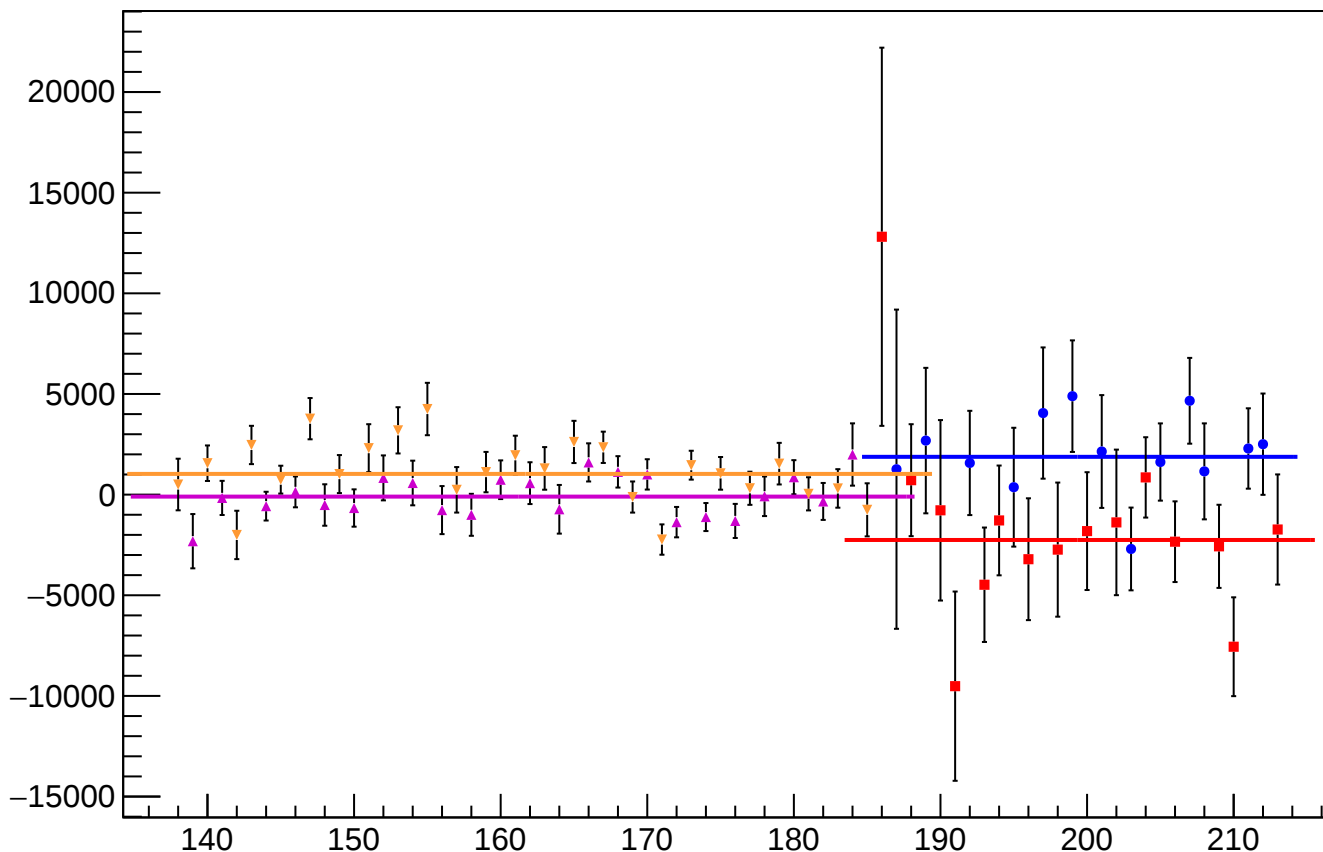
Right: 2163.921 $\pm$ 0.355 χ^2 /NDF: 1499534.3/27

In: 868.381 $\pm$ 0.129 χ^2 /NDF: 8095726.9/35

Out: 872.786 $\pm$ 0.127 χ^2 /NDF: 9709949.5/39

All: 870.625 $\pm$ 0.091 χ^2 /NDF: 17806267.4/75

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 1877.810 ± 703.378 $\chi^2/\text{NDF}: 8.8/12$

Left Out: 1028.864 ± 186.810 $\chi^2/\text{NDF}: 60.2/24$

Right Out: -2253.088 ± 721.600 $\chi^2/\text{NDF}: 14.3/14$

Left In: -98.691 ± 191.027 $\chi^2/\text{NDF}: 25.4/22$

Left: 477.669 ± 133.561 $\chi^2/\text{NDF}: 103.3/47$

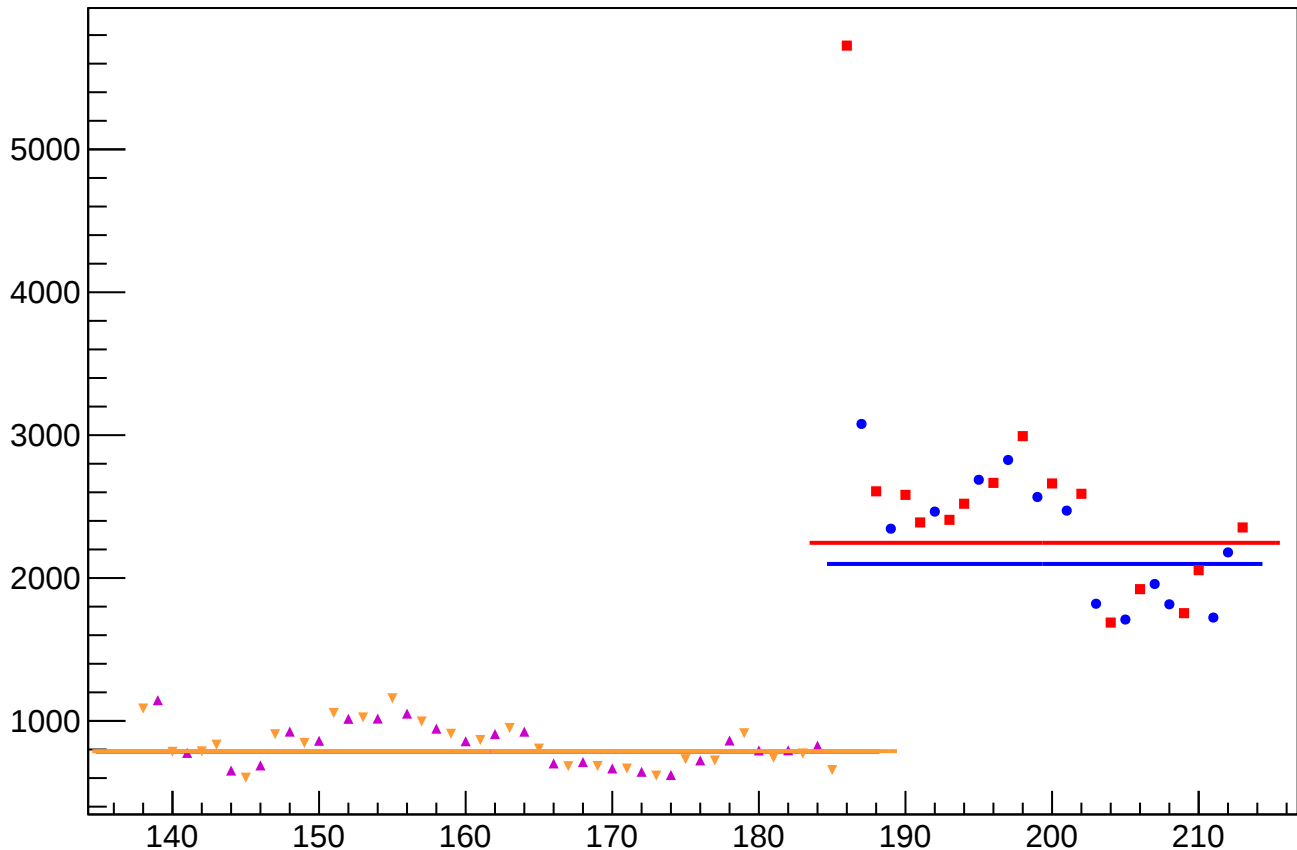
Right: -134.823 ± 503.683 $\chi^2/\text{NDF}: 40.0/27$

In: 37.078 ± 184.349 $\chi^2/\text{NDF}: 41.6/35$

Out: 822.722 ± 180.848 $\chi^2/\text{NDF}: 93.8/39$

All: 437.431 ± 129.099 $\chi^2/\text{NDF}: 144.7/75$

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2098.684 $\pm$ 0.497 χ^2 /NDF: 580304.4/12

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF: 1113741.6/24

Right Out: 2246.507 $\pm$ 0.510 χ^2 /NDF: 882515.2/14

Left In: 785.490 $\pm$ 0.135 χ^2 /NDF: 965338.9/22

Left: 786.999 $\pm$ 0.094 χ^2 /NDF: 2079324.6/47

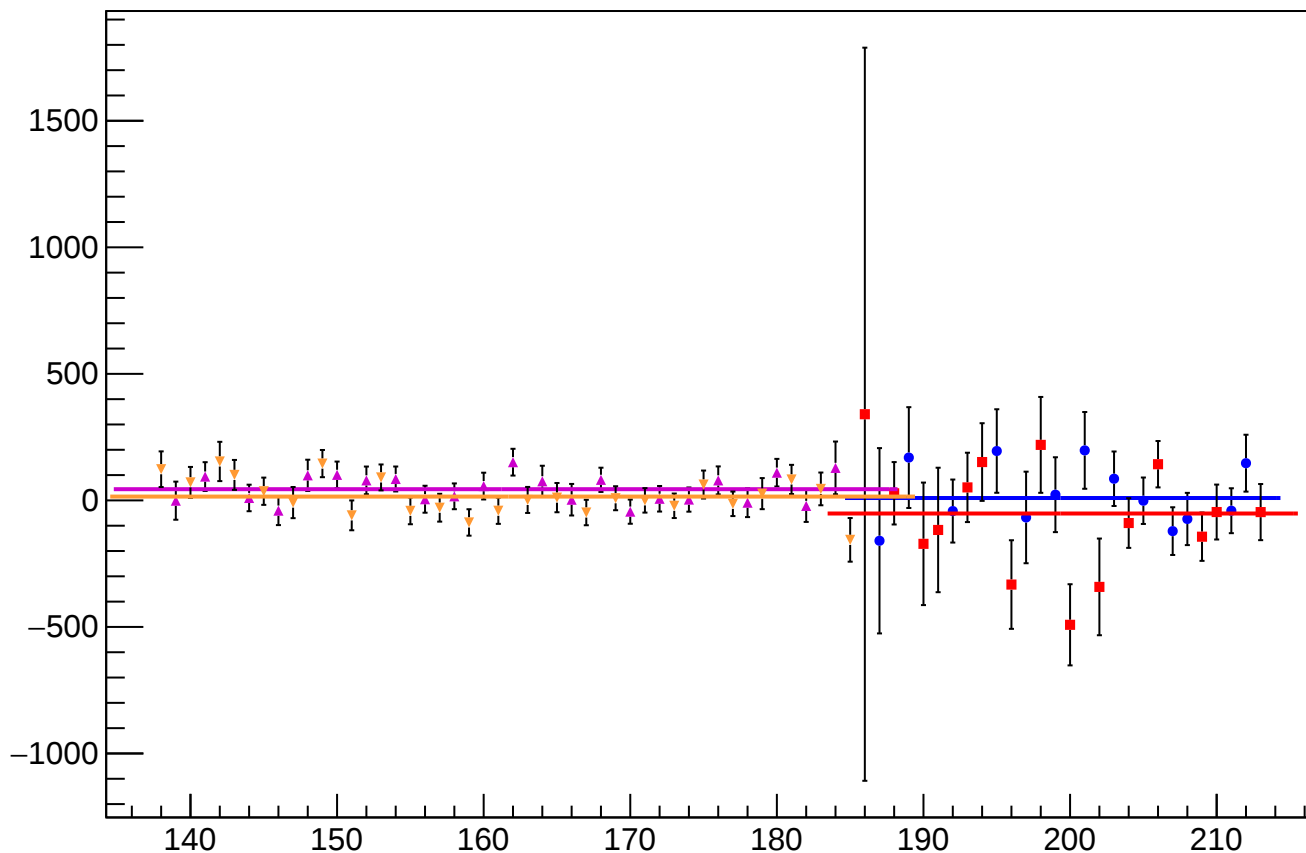
Right: 2170.706 $\pm$ 0.356 χ^2 /NDF: 1505858.2/27

In: 875.696 $\pm$ 0.130 χ^2 /NDF: 8038006.9/35

Out: 880.024 $\pm$ 0.128 χ^2 /NDF: 9649008.5/39

All: 877.902 $\pm$ 0.091 χ^2 /NDF: 17687577.3/75

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 9.422 ± 33.879 $\chi^2/\text{NDF}: 8.9/12$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -51.822 ± 34.897 $\chi^2/\text{NDF}: 23.2/14$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

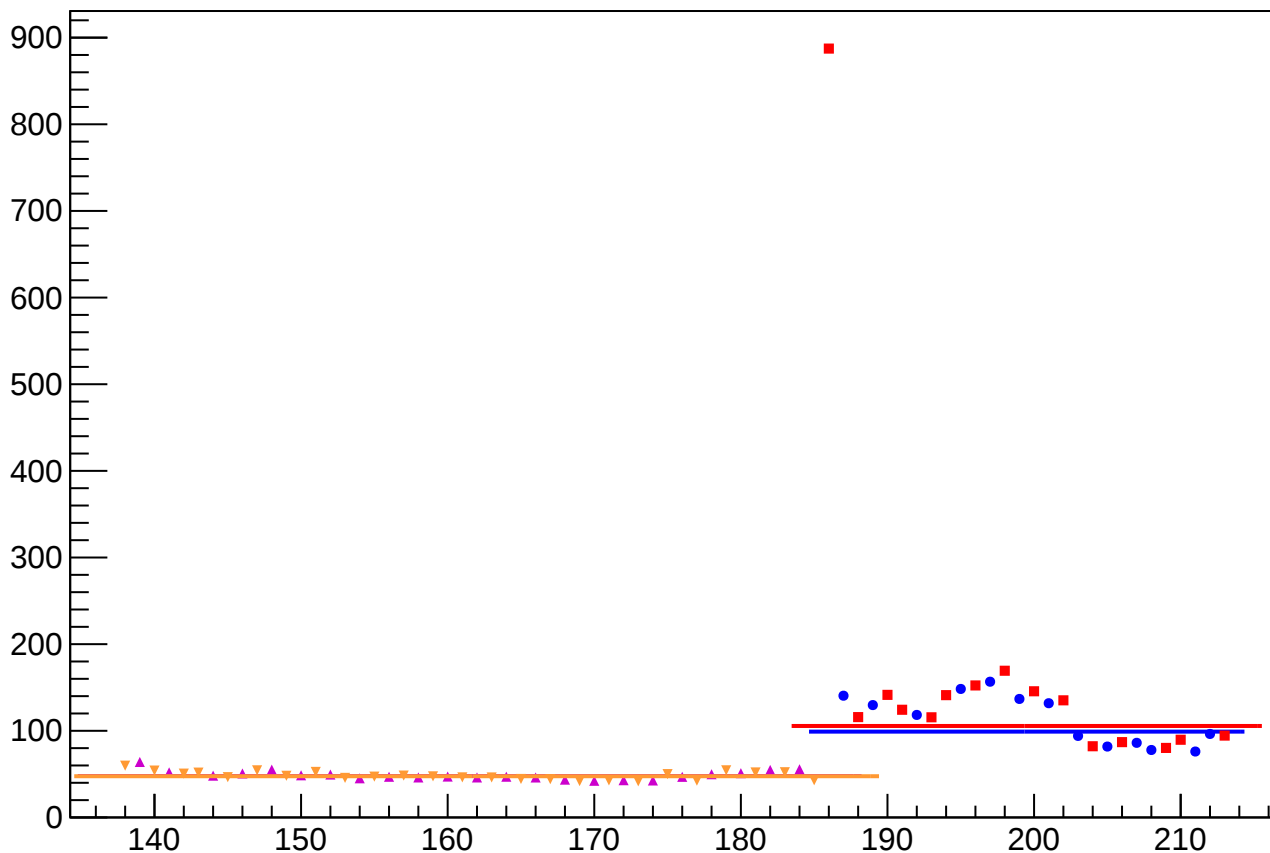
Right: -20.294 ± 24.308 $\chi^2/\text{NDF}: 33.7/27$

In: 40.677 ± 10.915 $\chi^2/\text{NDF}: 32.2/35$

Out: 8.896 ± 10.625 $\chi^2/\text{NDF}: 60.7/39$

All: 24.358 ± 7.613 $\chi^2/\text{NDF}: 97.2/75$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 99.058 $\pm$ 0.024 χ^2 /NDF: 1057151.0/12

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF:312874.8/24

Right Out: 105.584 $\pm$ 0.025 χ^2 /NDF: 1712295.2/14

Left In: 47.846 $\pm$ 0.008 χ^2 /NDF:281790.1/22

Left: 47.712 $\pm$ 0.006 χ^2 /NDF: 595189.7/47

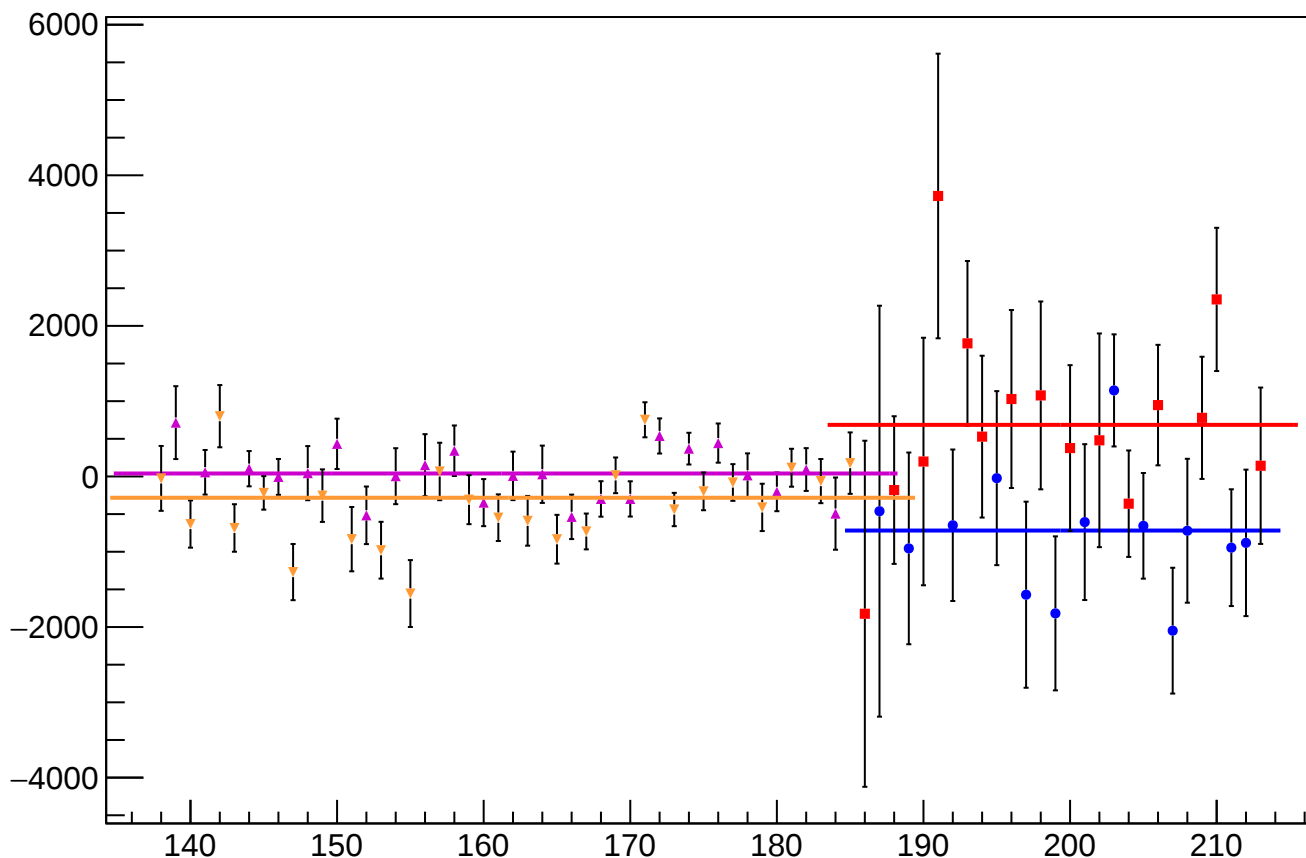
Right: 102.225 $\pm$ 0.017 χ^2 /NDF: 2805461.0/27

In: 53.162 $\pm$ 0.008 χ^2 /NDF:5434571.8/35

Out: 52.963 $\pm$ 0.008 χ^2 /NDF:7037551.0/39

All: 53.059 $\pm$ 0.005 χ^2 /NDF: 12472464.9/75

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -718.358 ± 266.178 $\chi^2/\text{NDF}: 11.0/12$

Left Out: -282.798 ± 59.690 $\chi^2/\text{NDF}: 66.5/24$

Right Out: 685.269 ± 273.447 $\chi^2/\text{NDF}: 11.6/14$

Left In: 39.432 ± 60.759 $\chi^2/\text{NDF}: 27.5/22$

Left: -124.543 ± 42.580 $\chi^2/\text{NDF}: 108.4/47$

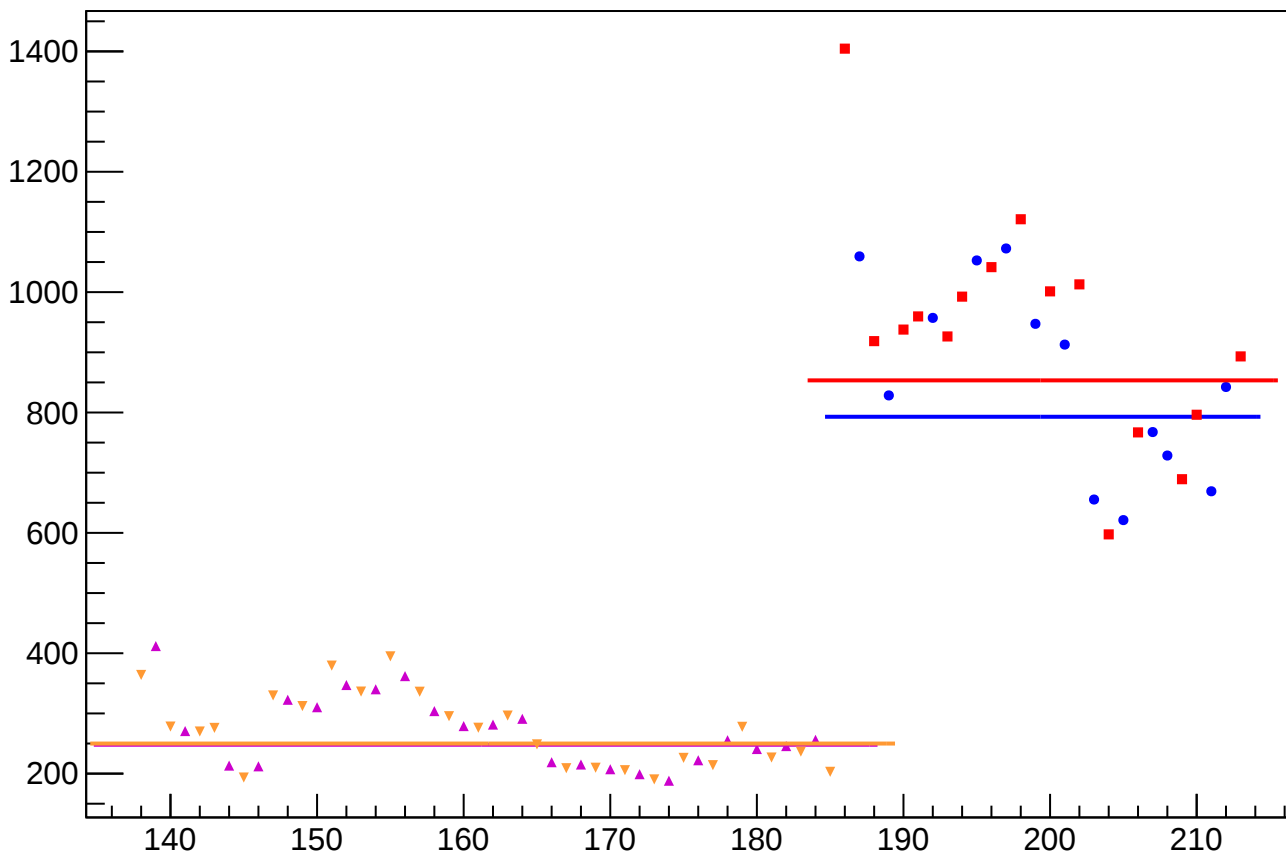
Right: -35.449 ± 190.734 $\chi^2/\text{NDF}: 36.1/27$

In: 1.903 ± 59.235 $\chi^2/\text{NDF}: 46.2/35$

Out: -238.769 ± 58.317 $\chi^2/\text{NDF}: 90.1/39$

All: -120.314 ± 41.557 $\chi^2/\text{NDF}: 144.7/75$

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 792.924+/-0.188 χ^2/NDF : 604907.6/12

Left Out: 249.956+/-0.042 χ^2/NDF :1614205.9/24

Right Out: 853.382+/-0.193 χ^2/NDF : 759352.6/14

Left In: 247.917+/-0.043 χ^2/NDF :1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47

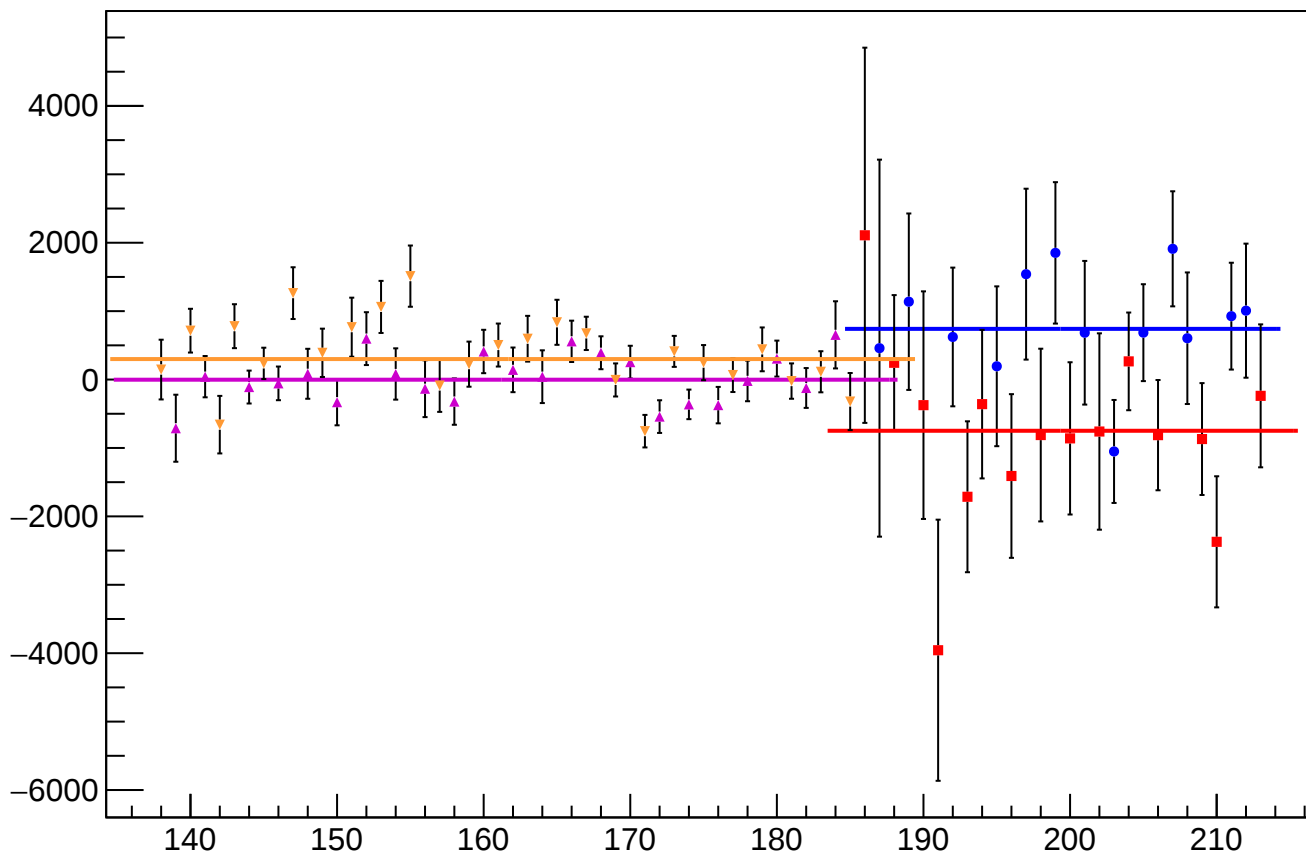
Right: 822.338+/-0.135 χ^2/NDF : 1414460.4/27

In: 274.908+/-0.042 χ^2/NDF :9985233.6/35

Out: 277.401+/-0.041 χ^2/NDF :11669938.6/39

All: 276.174+/-0.029 χ^2/NDF : 21656971.9/75

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 741.034+/-268.625 χ^2/NDF : 9.7/12

Left Out: 299.562+/-60.860 χ^2/NDF : 62.5/24

Right Out: -748.614+/-276.484 χ^2/NDF : 11.3/14

Left In: -2.185+/-62.005 χ^2/NDF : 29.2/22

Left: 151.501+/-43.433 χ^2/NDF : 103.7/47

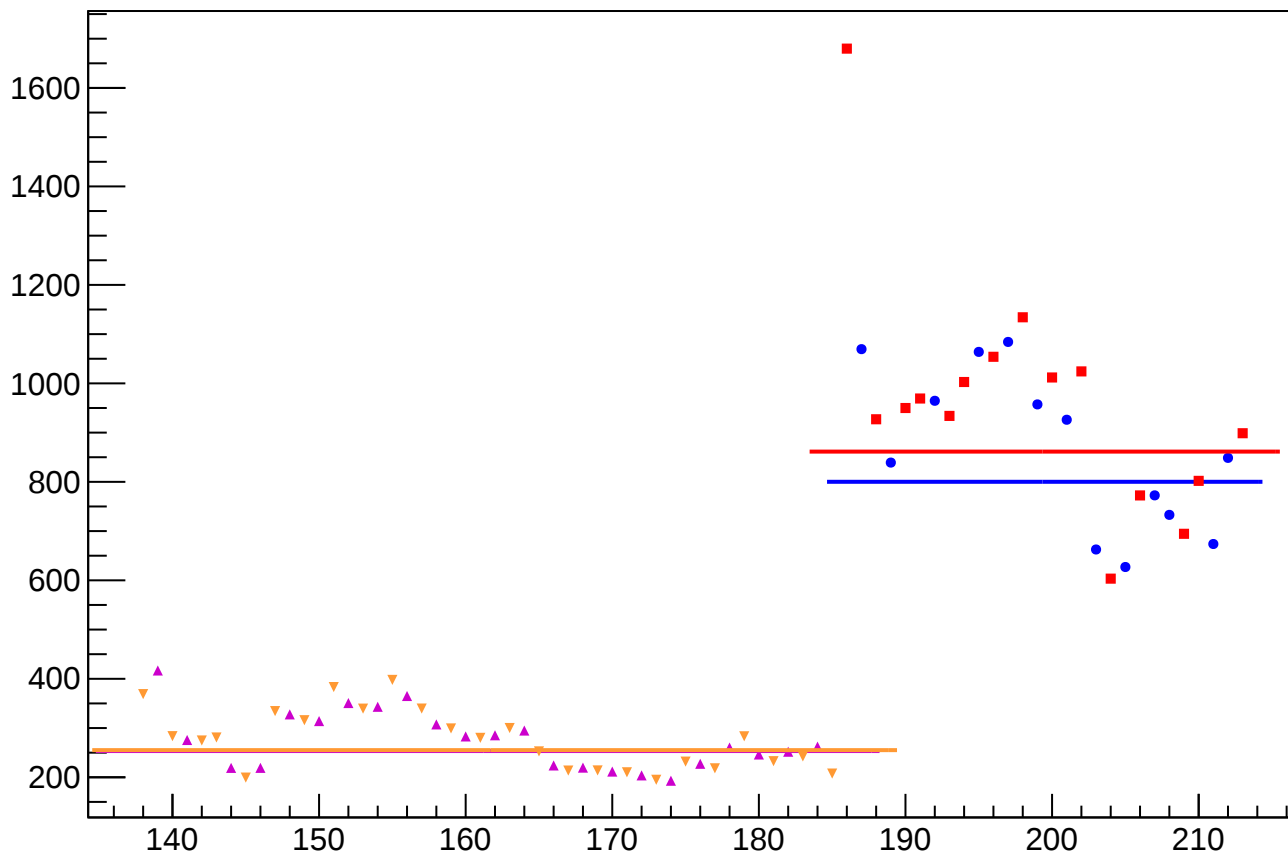
Right: 17.683+/-192.665 χ^2/NDF : 35.9/27

In: 35.410+/-60.416 χ^2/NDF : 46.1/35

Out: 251.122+/-59.437 χ^2/NDF : 87.5/39

All: 145.029+/-42.370 χ^2/NDF : 140.1/75

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 800.113+/-0.190 χ^2/NDF : 609416.4/12

Left Out: 255.135+/-0.043 χ^2/NDF : 1542039.5/24

Right Out: 861.437+/-0.196 χ^2/NDF : 828166.7/14

Left In: 253.287+/-0.044 χ^2/NDF : 1341662.3/22

Left: 254.229+/-0.031 χ^2/NDF : 2884606.5/47

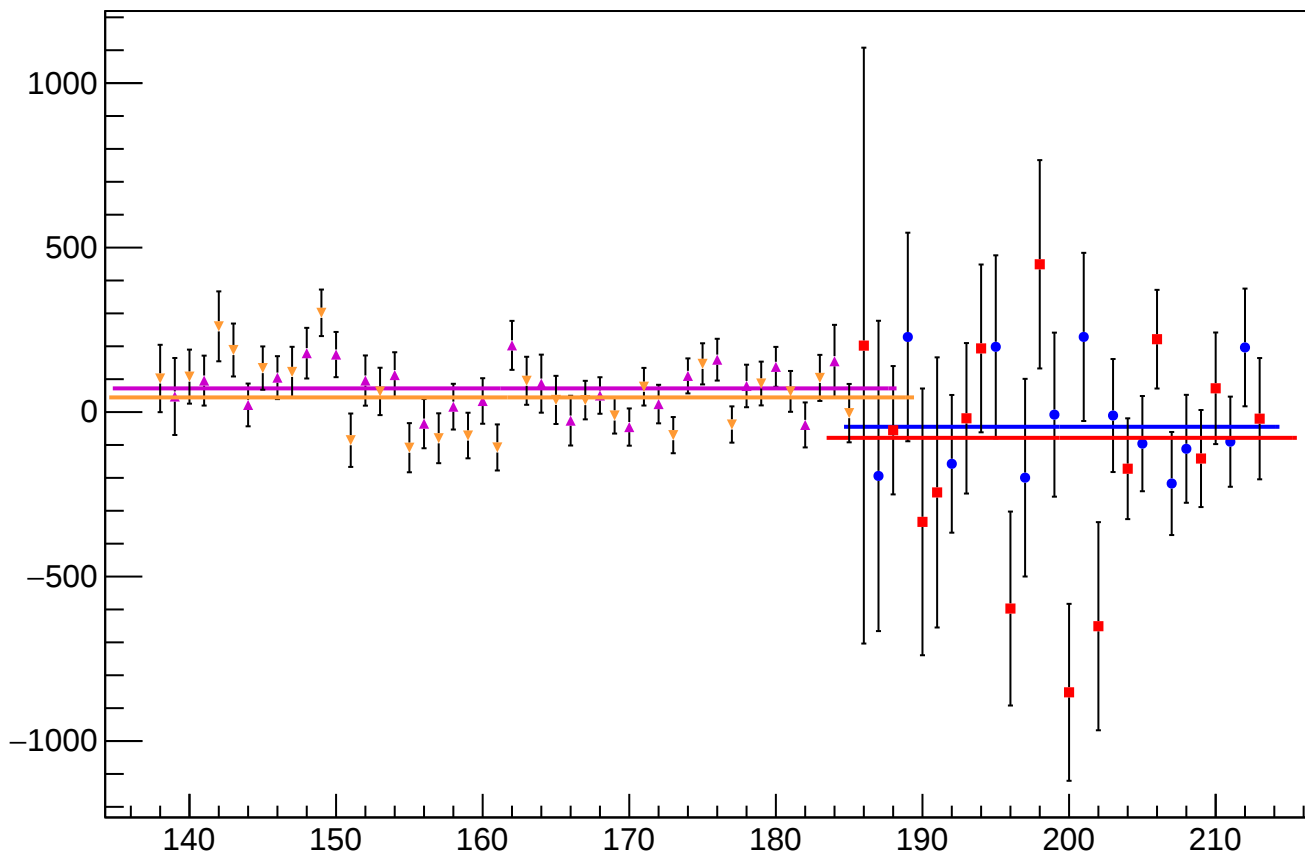
Right: 829.891+/-0.136 χ^2/NDF : 1488196.4/27

In: 280.948+/-0.043 χ^2/NDF : 9819567.1/35

Out: 283.155+/-0.042 χ^2/NDF : 11543355.1/39

All: 282.069+/-0.030 χ^2/NDF : 21364278.1/75

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -44.699 ± 54.498 χ^2/NDF : 6.8/12

Left Out: 44.602 ± 13.824 χ^2/NDF : 53.9/24

Right Out: -78.317 ± 56.210 χ^2/NDF : 24.7/14

Left In: 72.037 ± 14.296 χ^2/NDF : 25.3/22

Left: 57.859 ± 9.938 χ^2/NDF : 81.1/47

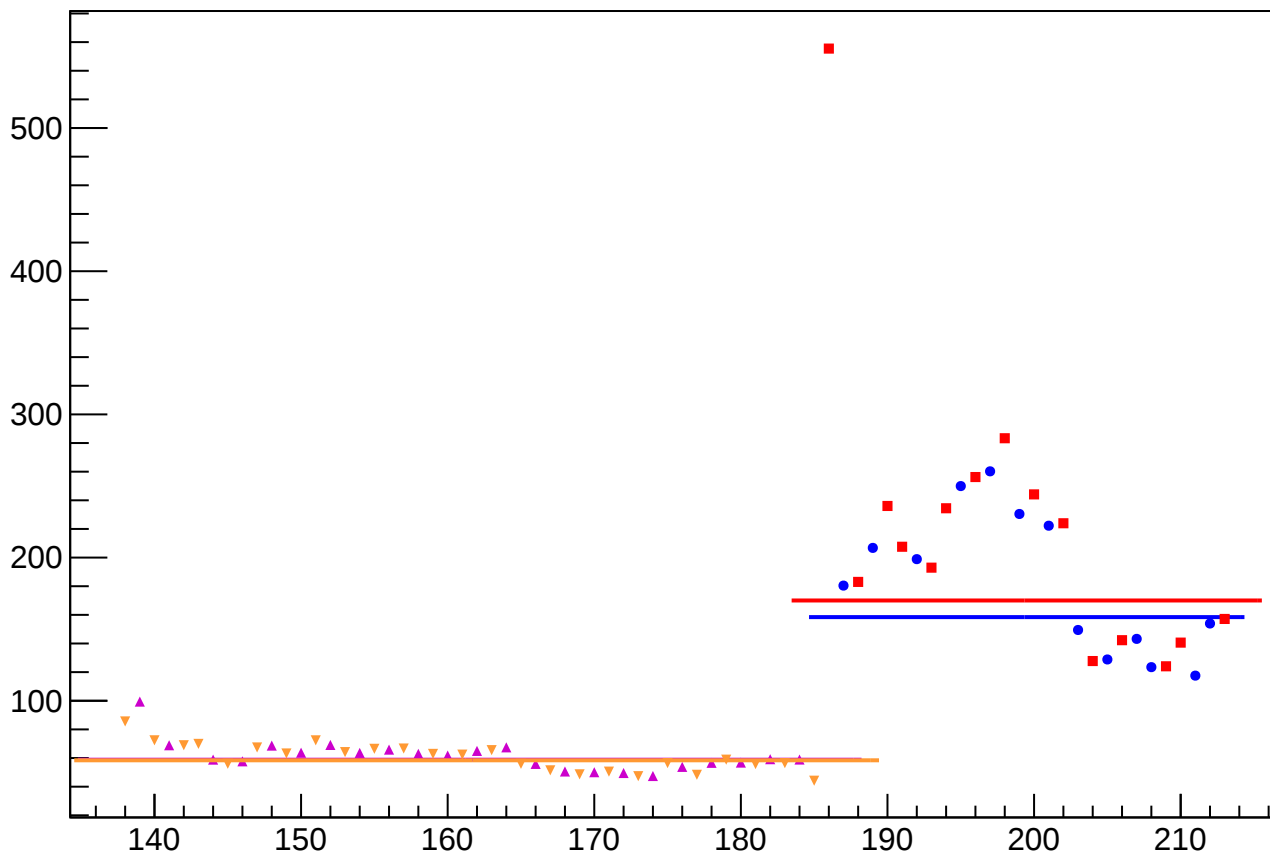
Right: -60.988 ± 39.127 χ^2/NDF : 31.7/27

In: 64.521 ± 13.828 χ^2/NDF : 36.4/35

Out: 37.591 ± 13.424 χ^2/NDF : 83.2/39

All: 50.657 ± 9.632 χ^2/NDF : 121.5/75

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 158.427+/-0.039 χ^2/NDF : 1241288.1/12

Left Out: 58.423+/-0.010 χ^2/NDF : 790091.3/24

Right Out: 170.040+/-0.040 χ^2/NDF : 1710382.8/14

Left In: 58.840+/-0.010 χ^2/NDF : 679925.7/22

Left: 58.624+/-0.007 χ^2/NDF : 1470896.0/47

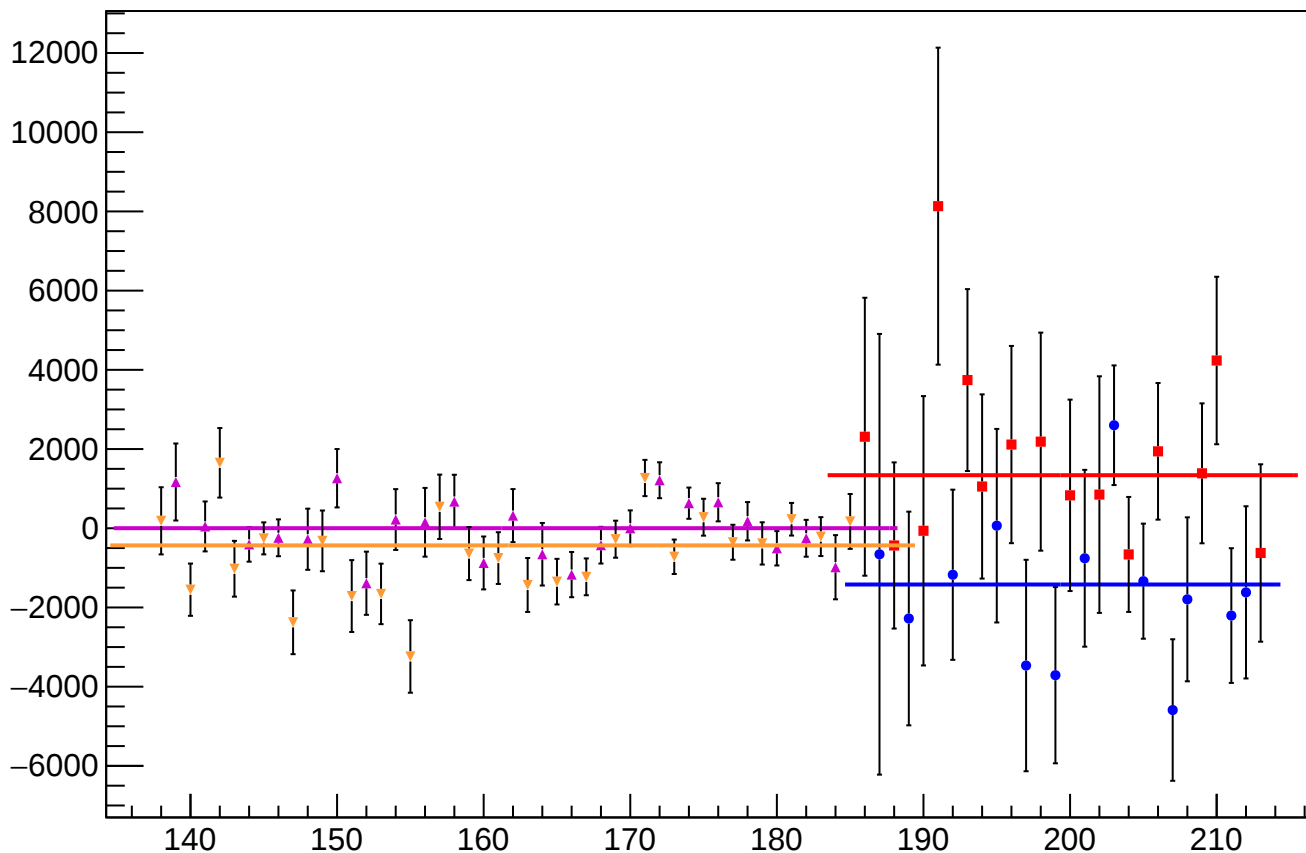
Right: 164.054+/-0.028 χ^2/NDF : 2995675.2/27

In: 65.252+/-0.010 χ^2/NDF : 8169743.2/35

Out: 64.789+/-0.009 χ^2/NDF : 9936756.3/39

All: 65.013+/-0.007 χ^2/NDF : 18107652.6/75

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1420.001 $\pm$ 566.809 χ^2 /NDF: 12.7/12

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 1339.714 $\pm$ 581.011 χ^2 /NDF: 9.9/14

Left In: 1.825 $\pm$ 116.459 χ^2 /NDF:32.3/22

Left: -219.109 $\pm$ 81.614 χ^2 /NDF: 98.8/47

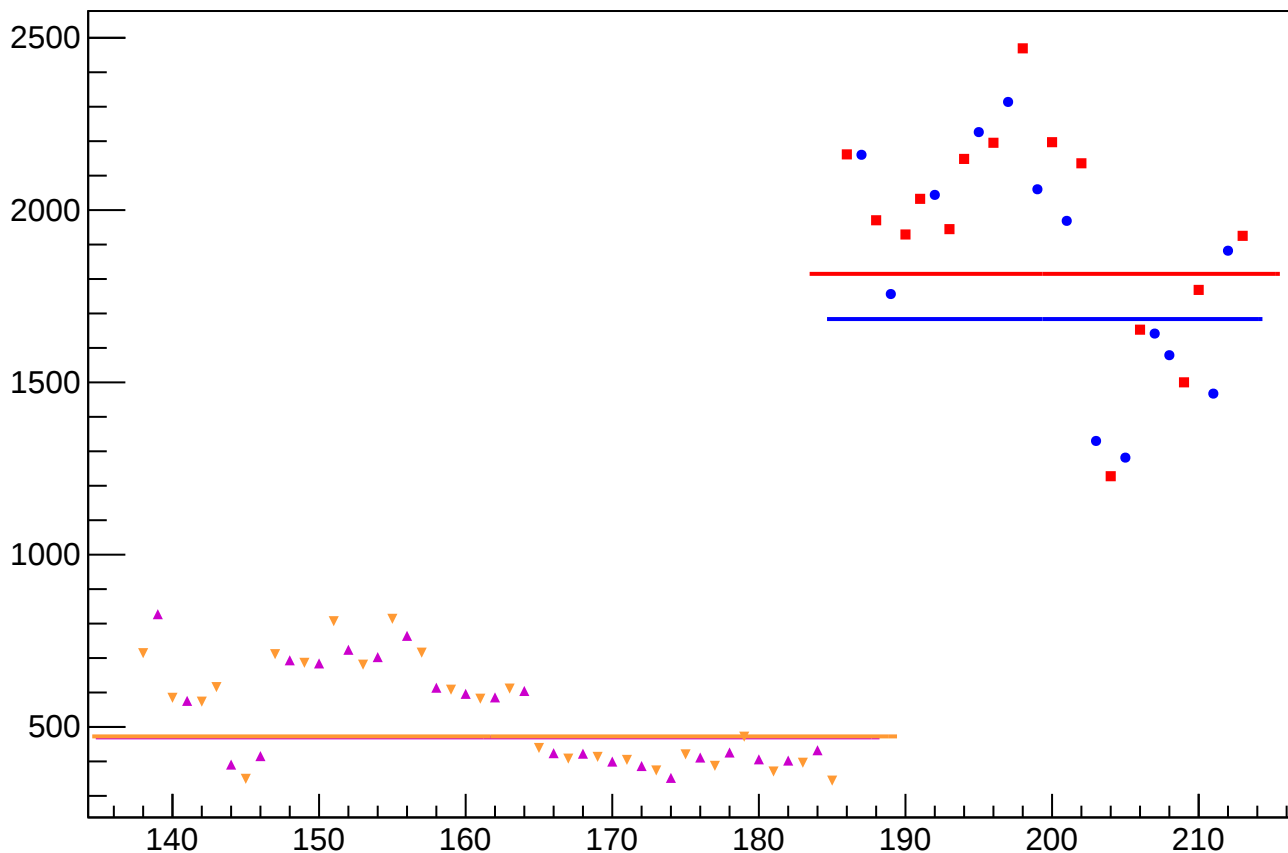
Right: -74.284 $\pm$ 405.722 χ^2 /NDF: 34.2/27

In: -55.767 $\pm$ 114.076 χ^2 /NDF:51.1/35

Out: -366.185 $\pm$ 112.252 χ^2 /NDF:78.2/39

All: -213.476 $\pm$ 80.011 χ^2 /NDF: 133.1/75

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1683.787+/-0.401 χ^2/NDF : 690463.2/12

Left Out: 472.569+/-0.081 χ^2/NDF : 2508168.9/24

Right Out: 1814.939+/-0.411 χ^2/NDF : 733291.1/14

Left In: 469.761+/-0.082 χ^2/NDF : 2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

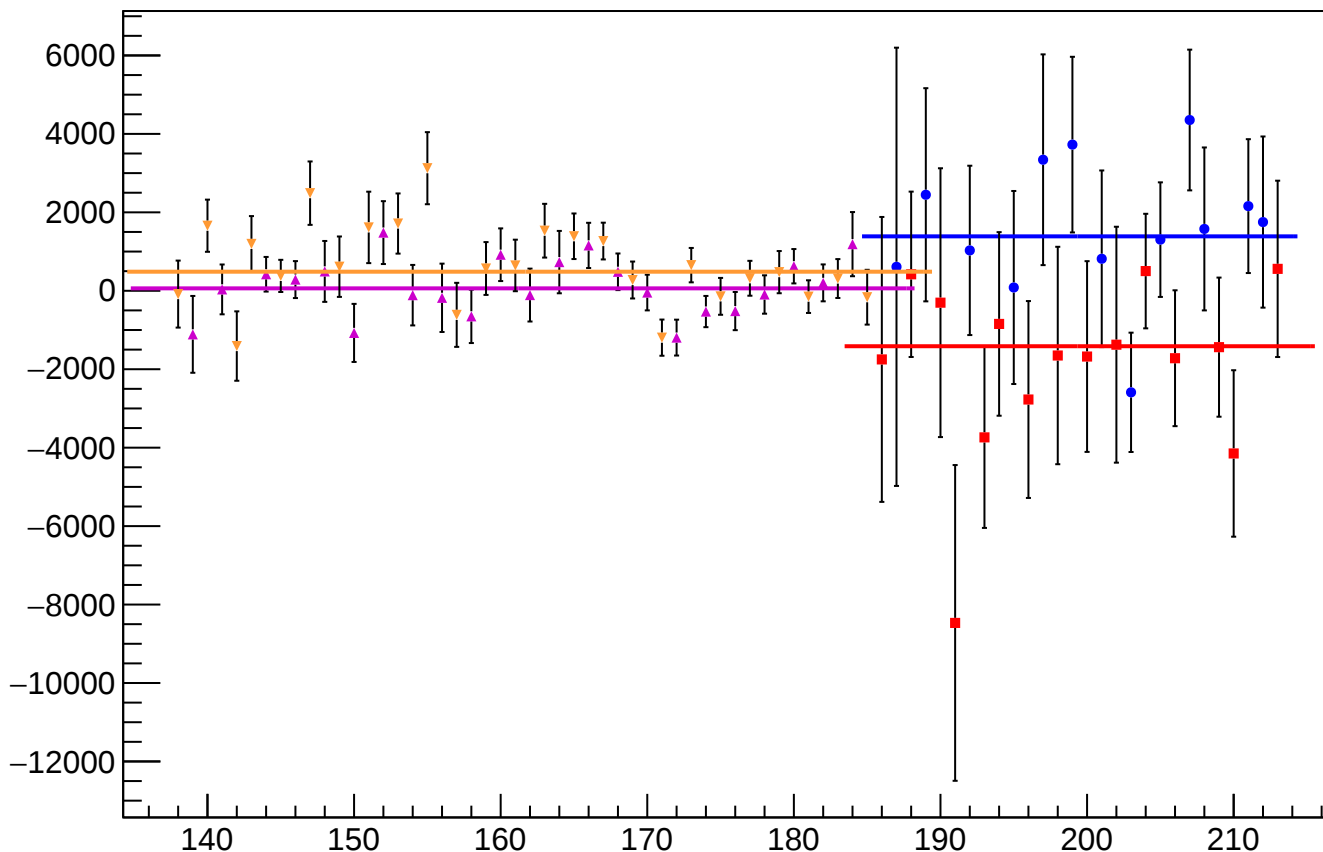
Right: 1747.741+/-0.287 χ^2/NDF : 1475969.8/27

In: 518.936+/-0.081 χ^2/NDF : 11610836.6/35

Out: 522.676+/-0.079 χ^2/NDF : 13518903.3/39

All: 520.836+/-0.057 χ^2/NDF : 25130831.9/75

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1387.686 $\pm$ 569.868 χ^2 /NDF: 12.0/12

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -1413.668 $\pm$ 584.532 χ^2 /NDF: 9.5/14

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

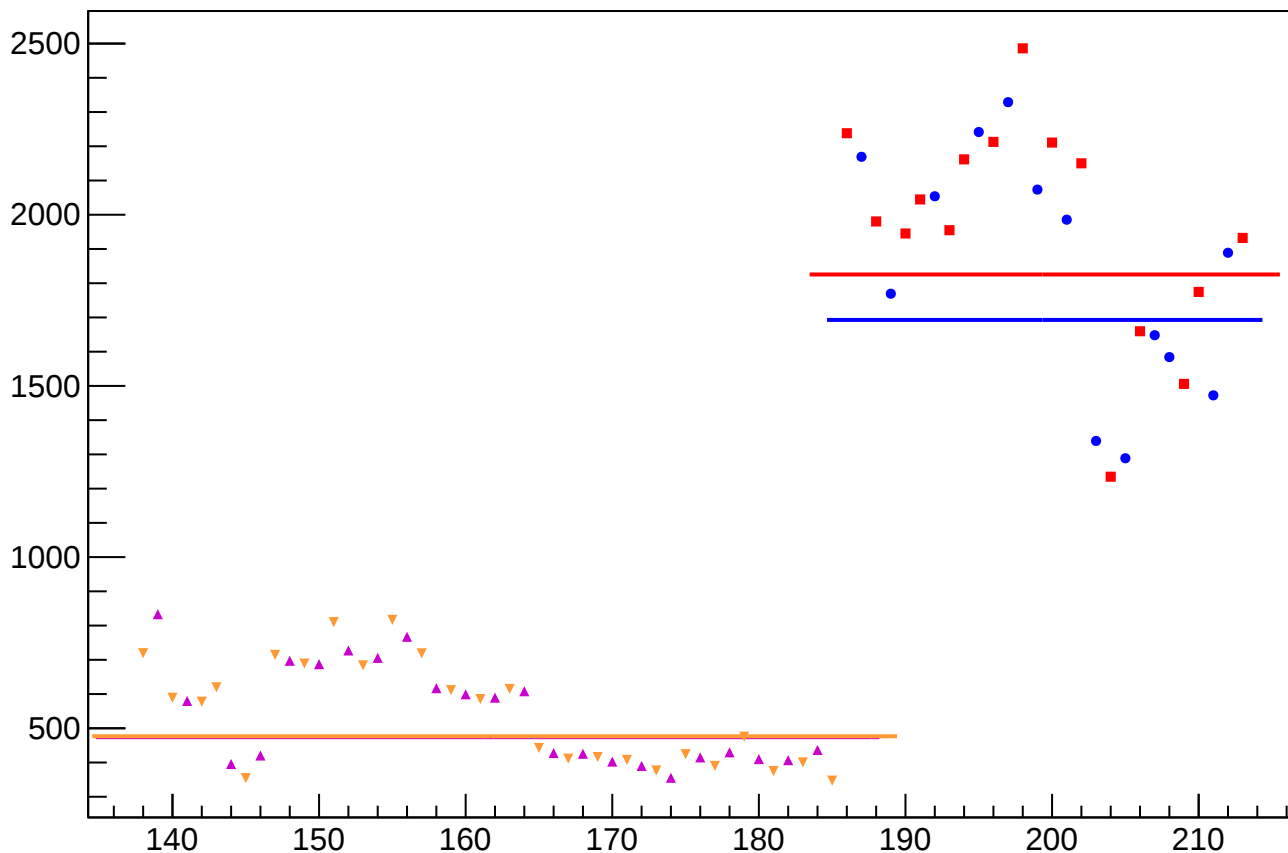
Right: 22.588 $\pm$ 408.043 χ^2 /NDF: 33.3/27

In: 115.800 $\pm$ 115.031 χ^2 /NDF:48.3/35

Out: 415.422 $\pm$ 113.164 χ^2 /NDF:75.7/39

All: 268.062 $\pm$ 80.671 χ^2 /NDF: 127.5/75

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1692.769 $\pm$ 0.403 χ^2/NDF : 692655.6/12

Left Out: 476.690 $\pm$ 0.082 χ^2/NDF : 2472737.6/24

Right Out: 1825.504 $\pm$ 0.413 χ^2/NDF : 743492.7/14

Left In: 473.983 $\pm$ 0.083 χ^2/NDF : 2087113.7/22

Left: 475.361 $\pm$ 0.058 χ^2/NDF : 4560392.0/47

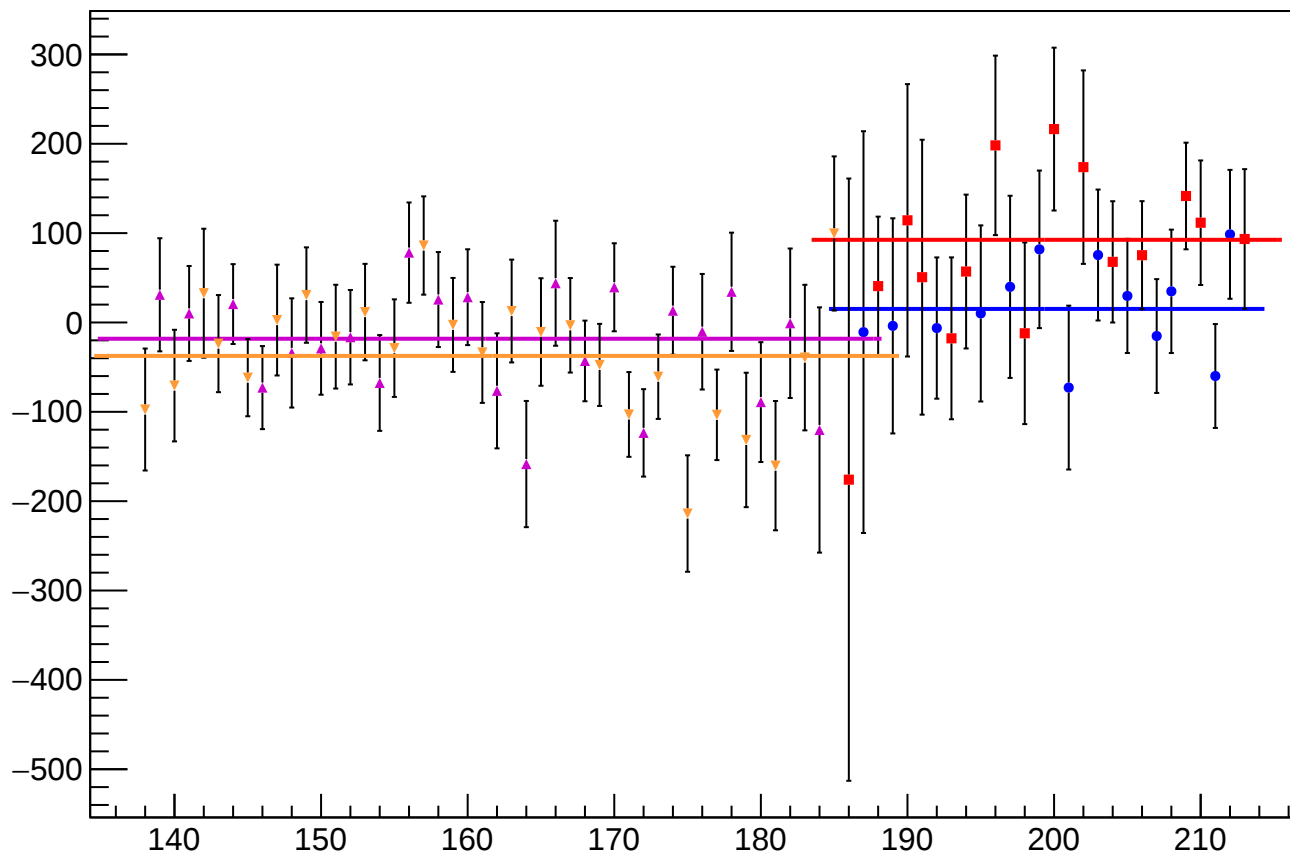
Right: 1757.451 $\pm$ 0.289 χ^2/NDF : 1489022.9/27

In: 523.644 $\pm$ 0.081 χ^2/NDF : 11555232.8/35

Out: 527.244 $\pm$ 0.080 χ^2/NDF : 13466317.3/39

All: 525.473 $\pm$ 0.057 χ^2/NDF : 25022545.4/75

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 15.160+/-21.973 χ^2/NDF : 5.7/12

Left Out: -37.413+/-11.390 χ^2/NDF : 30.5/24

Right Out: 92.516+/-22.040 χ^2/NDF : 8.4/14

Left In: -18.210+/-11.788 χ^2/NDF : 23.0/22

Left: -28.141+/-8.191 χ^2/NDF : 54.8/47

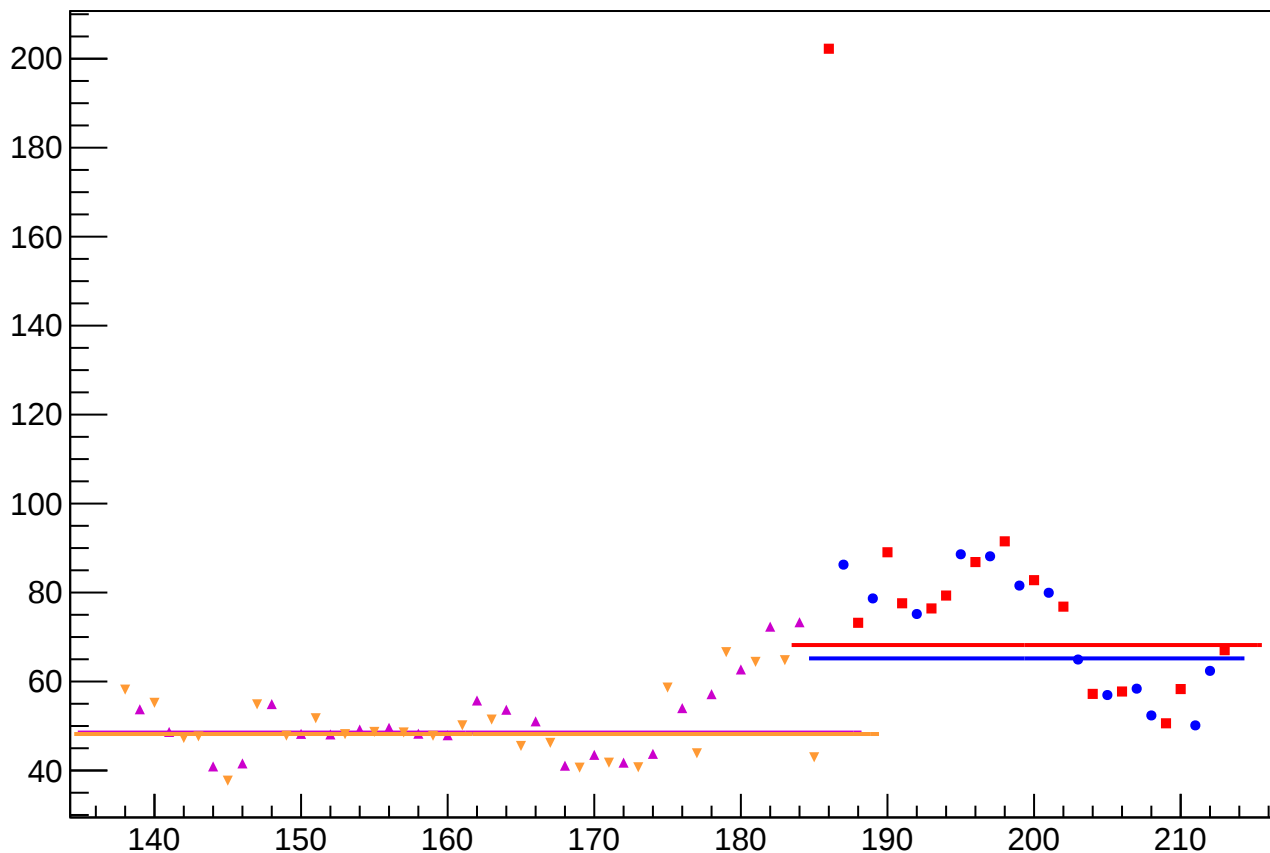
Right: 53.721+/-15.561 χ^2/NDF : 20.3/27

In: -10.753+/-10.387 χ^2/NDF : 30.5/35

Out: -10.027+/-10.118 χ^2/NDF : 66.3/39

All: -10.381+/-7.248 χ^2/NDF : 96.8/75

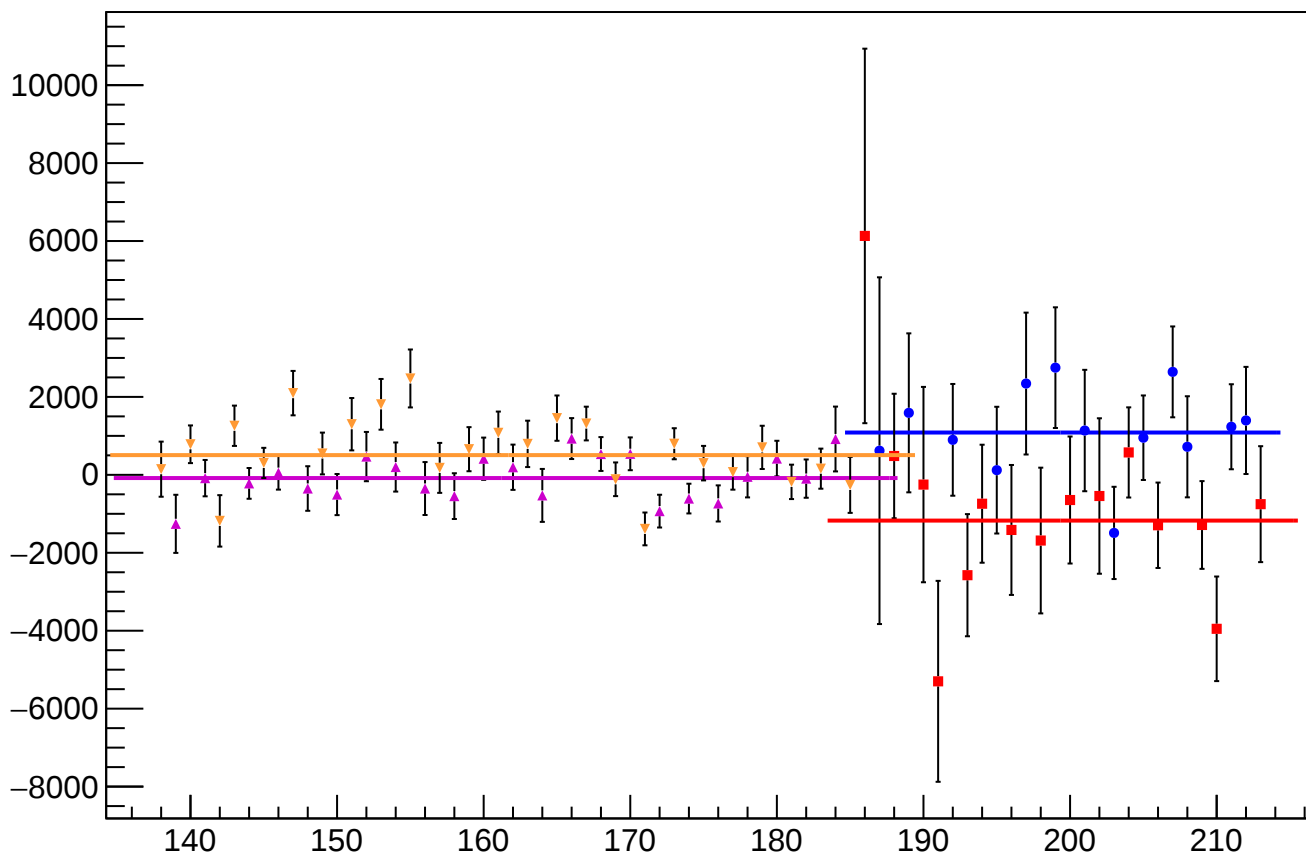
reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 65.197 $\pm$ 0.016 χ^2 /NDF: 671625.8/12
 Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24
 Right Out: 68.199 $\pm$ 0.016 χ^2 /NDF: 984152.9/14
 Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47
 Right: 66.693 $\pm$ 0.011 χ^2 /NDF: 1674394.7/27
 In: 52.252 $\pm$ 0.007 χ^2 /NDF: 2240832.4/35
 Out: 52.415 $\pm$ 0.007 χ^2 /NDF: 3034108.0/39
 All: 52.336 $\pm$ 0.005 χ^2 /NDF: 5275192.8/75

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1085.742 $\pm$ 390.732 χ^2 /NDF: 8.8/12

Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24

Right Out: -1173.868 $\pm$ 400.372 χ^2 /NDF: 13.9/14

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

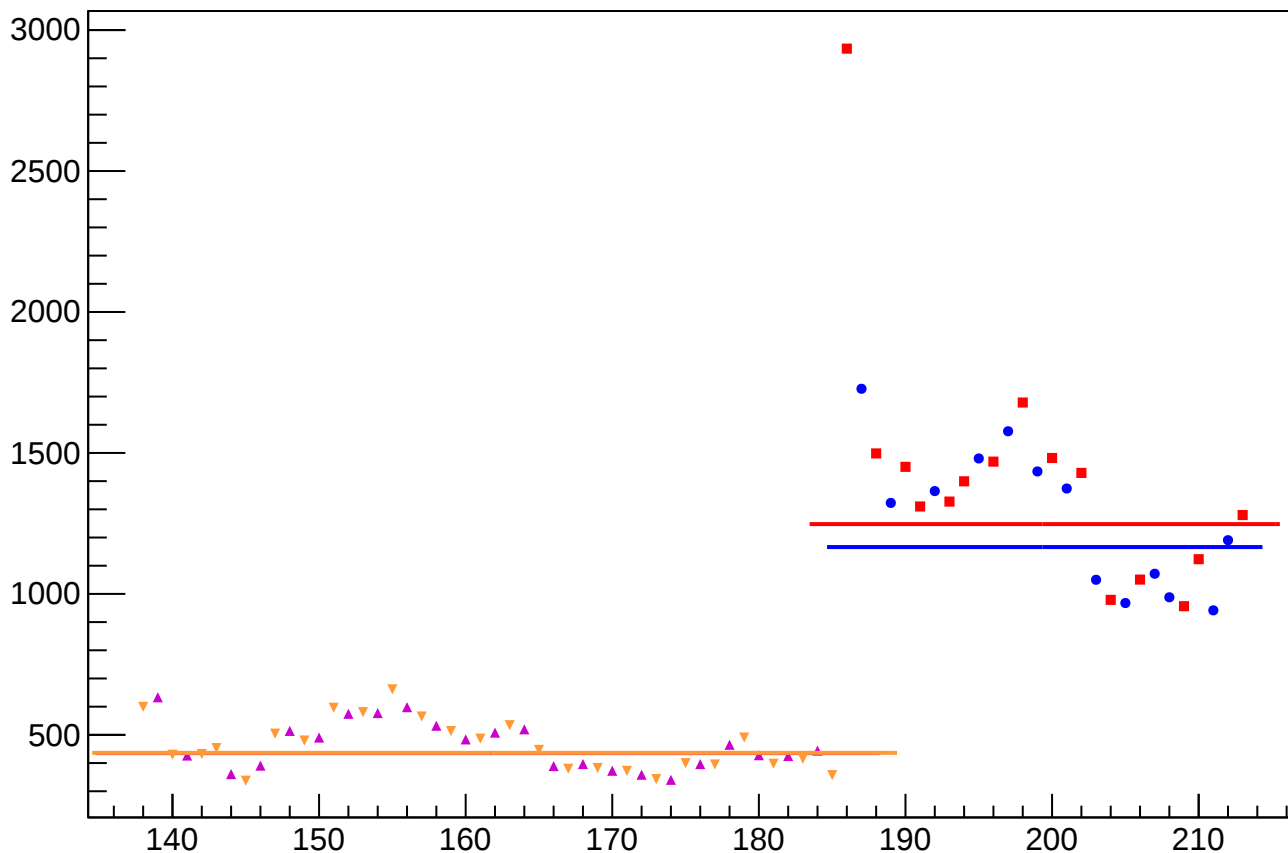
Right: -16.531 $\pm$ 279.635 χ^2 /NDF: 39.0/27

In: -2.433 $\pm$ 102.244 χ^2 /NDF:42.4/35

Out: 401.025 $\pm$ 100.177 χ^2 /NDF:96.2/39

All: 203.416 $\pm$ 71.555 χ^2 /NDF: 146.5/75

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1166.184 $\pm$ 0.276 χ^2 /NDF: 576651.7/12

Left Out: 436.301 $\pm$ 0.073 χ^2 /NDF: 1179348.4/24

Right Out: 1247.572 $\pm$ 0.283 χ^2 /NDF: 859393.8/14

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

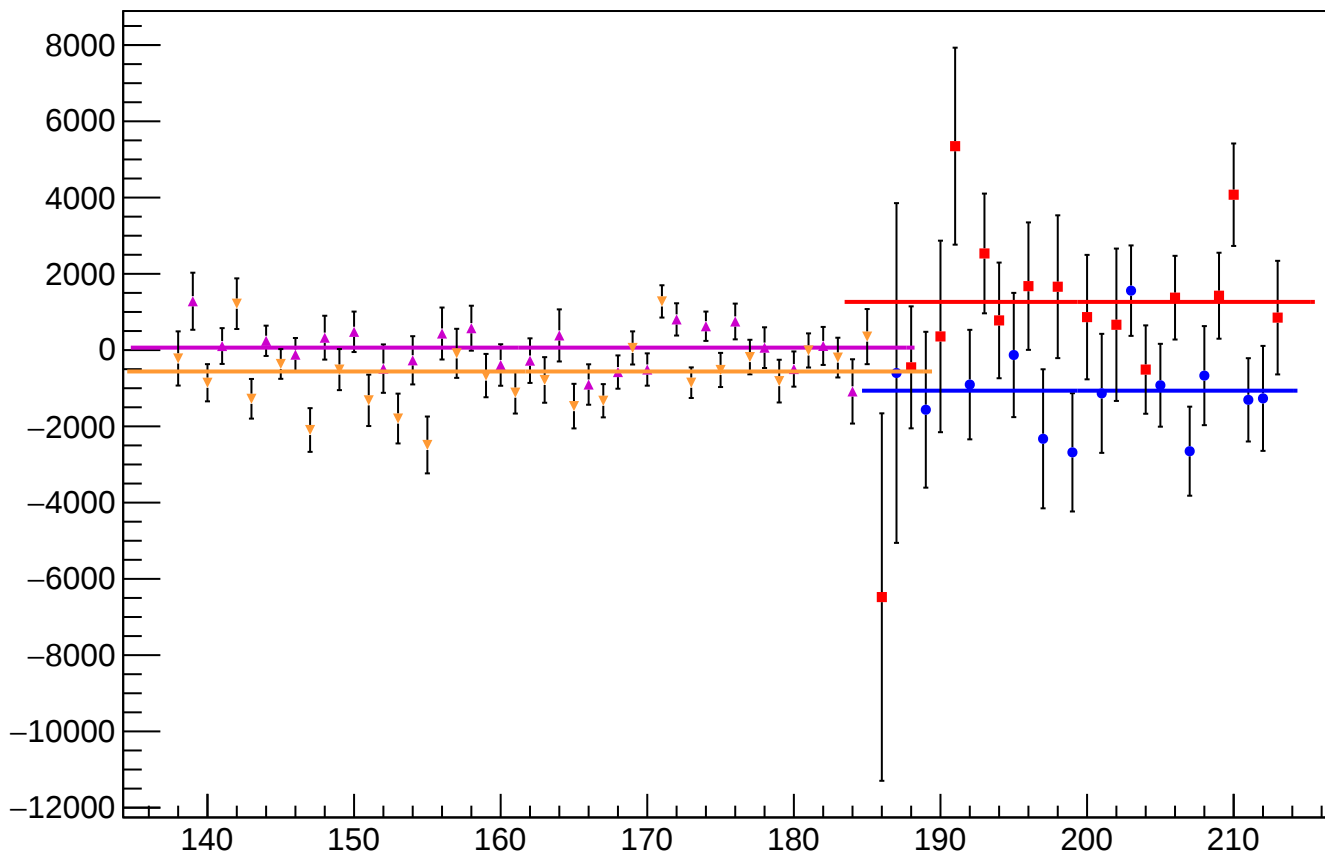
Right: 1205.886 $\pm$ 0.198 χ^2 /NDF: 1478375.0/27

In: 485.322 $\pm$ 0.072 χ^2 /NDF: 8123571.4/35

Out: 487.090 $\pm$ 0.071 χ^2 /NDF: 9736348.5/39

All: 486.225 $\pm$ 0.051 χ^2 /NDF: 17860225.0/75

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1064.303 ± 391.389 χ^2/NDF : 8.9/12

Left Out: -560.684 ± 104.207 χ^2/NDF : 61.8/24

Right Out: 1263.890 ± 401.026 χ^2/NDF : 14.2/14

Left In: 64.594 ± 106.708 χ^2/NDF : 25.2/22

Left: -255.457 ± 74.554 χ^2/NDF : 104.5/47

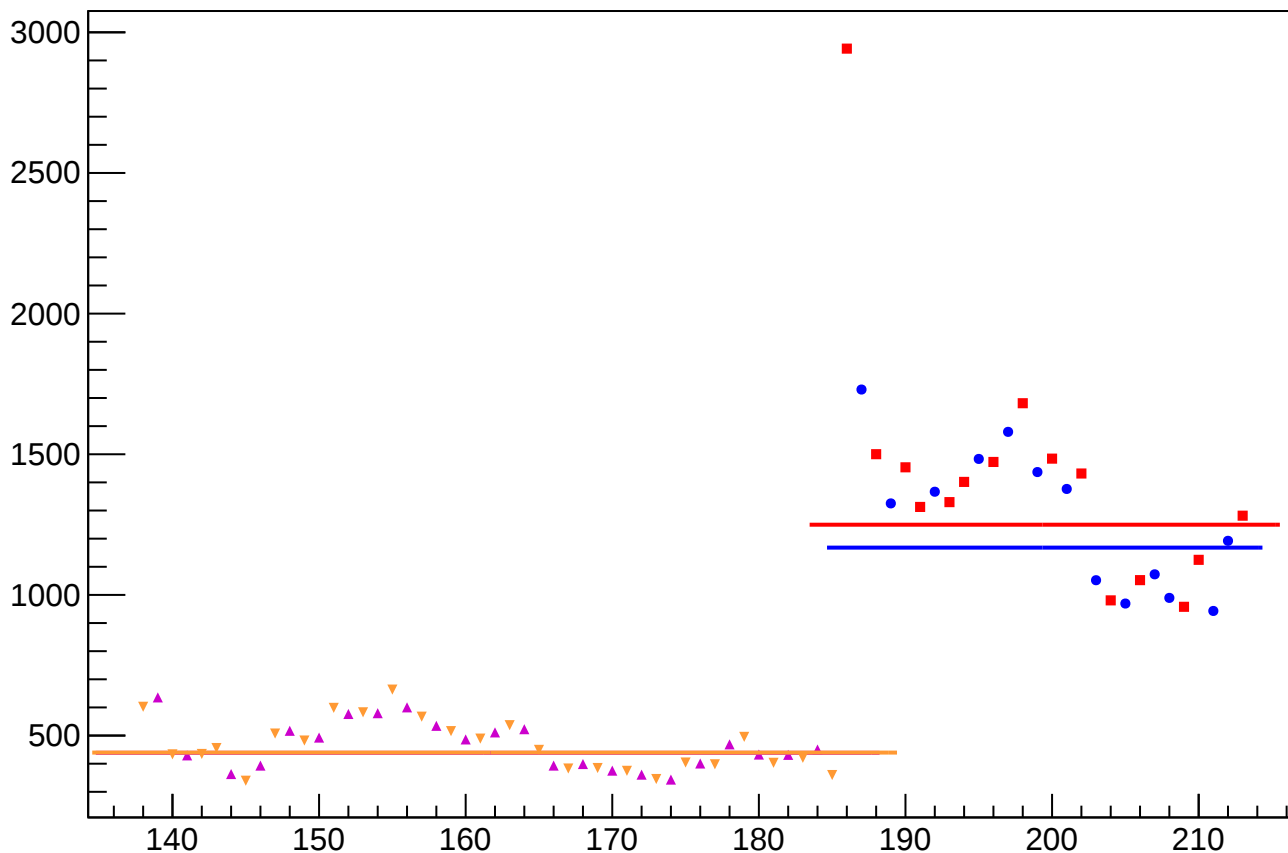
Right: 71.484 ± 280.099 χ^2/NDF : 40.4/27

In: -13.513 ± 102.950 χ^2/NDF : 41.8/35

Out: -445.276 ± 100.858 χ^2/NDF : 95.3/39

All: -233.826 ± 72.045 χ^2/NDF : 146.1/75

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1168.135 $\pm$ 0.277 χ^2/NDF : 577077.3/12

Left Out: 439.527 $\pm$ 0.074 χ^2/NDF : 1163352.8/24

Right Out: 1249.588 $\pm$ 0.284 χ^2/NDF : 860086.6/14

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

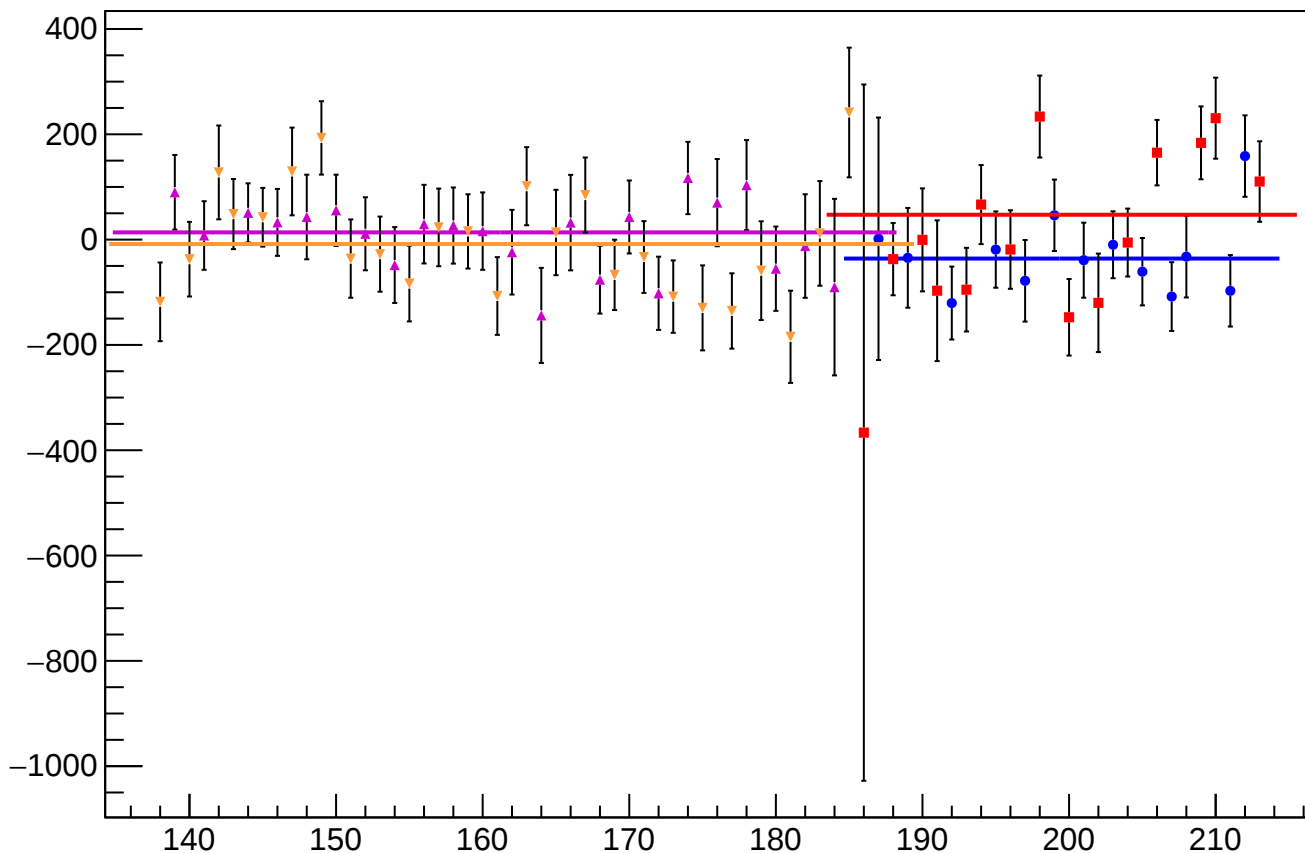
Right: 1207.871 $\pm$ 0.198 χ^2/NDF : 1479420.8/27

In: 489.027 $\pm$ 0.073 χ^2/NDF : 8059044.4/35

Out: 490.765 $\pm$ 0.071 χ^2/NDF : 9667850.3/39

All: 489.914 $\pm$ 0.051 χ^2/NDF : 17727185.6/75

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -35.977 ± 20.464 χ^2/NDF : 12.0/12

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 47.234 ± 20.380 χ^2/NDF : 38.0/14

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

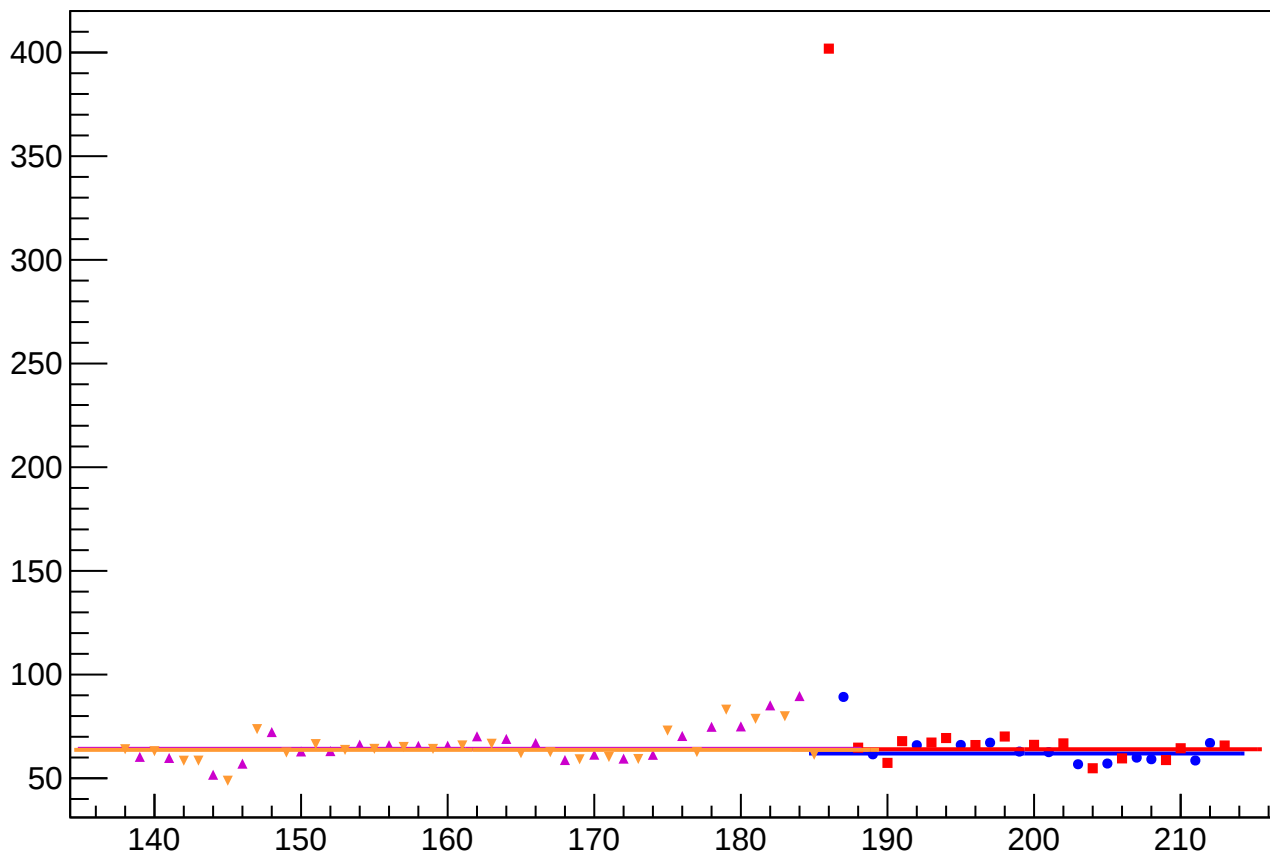
Right: 5.799 ± 14.440 χ^2/NDF : 58.3/27

In: -4.363 ± 12.345 χ^2/NDF : 32.0/35

Out: 11.027 ± 12.046 χ^2/NDF : 84.5/39

All: 3.520 ± 8.622 χ^2/NDF : 117.3/75

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.941 $\pm$ 0.014 χ^2 /NDF: 93568.4/12

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 63.986 $\pm$ 0.014 χ^2 /NDF: 627296.7/14

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

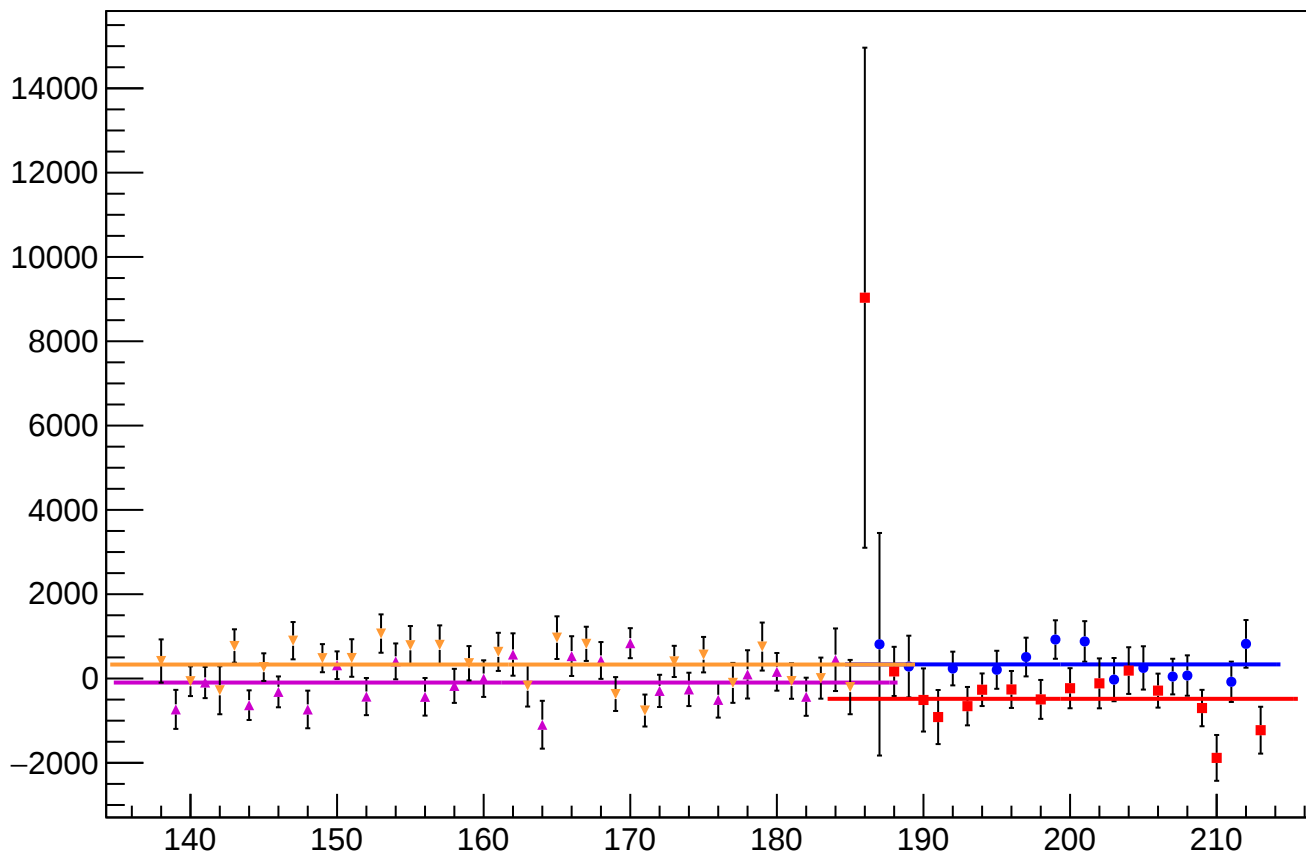
Right: 62.968 $\pm$ 0.010 χ^2 /NDF: 730893.9/27

In: 63.371 $\pm$ 0.009 χ^2 /NDF: 538593.8/35

Out: 63.797 $\pm$ 0.009 χ^2 /NDF: 1075999.7/39

All: 63.589 $\pm$ 0.006 χ^2 /NDF: 1615815.3/75

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 334.953 ± 138.557 χ^2/NDF : 6.1/12

Left Out: 331.739 ± 86.071 χ^2/NDF : 29.9/24

Right Out: -481.839 ± 132.140 χ^2/NDF : 16.0/14

Left In: -95.910 ± 88.656 χ^2/NDF : 28.7/22

Left: 124.240 ± 61.755 χ^2/NDF : 70.5/47

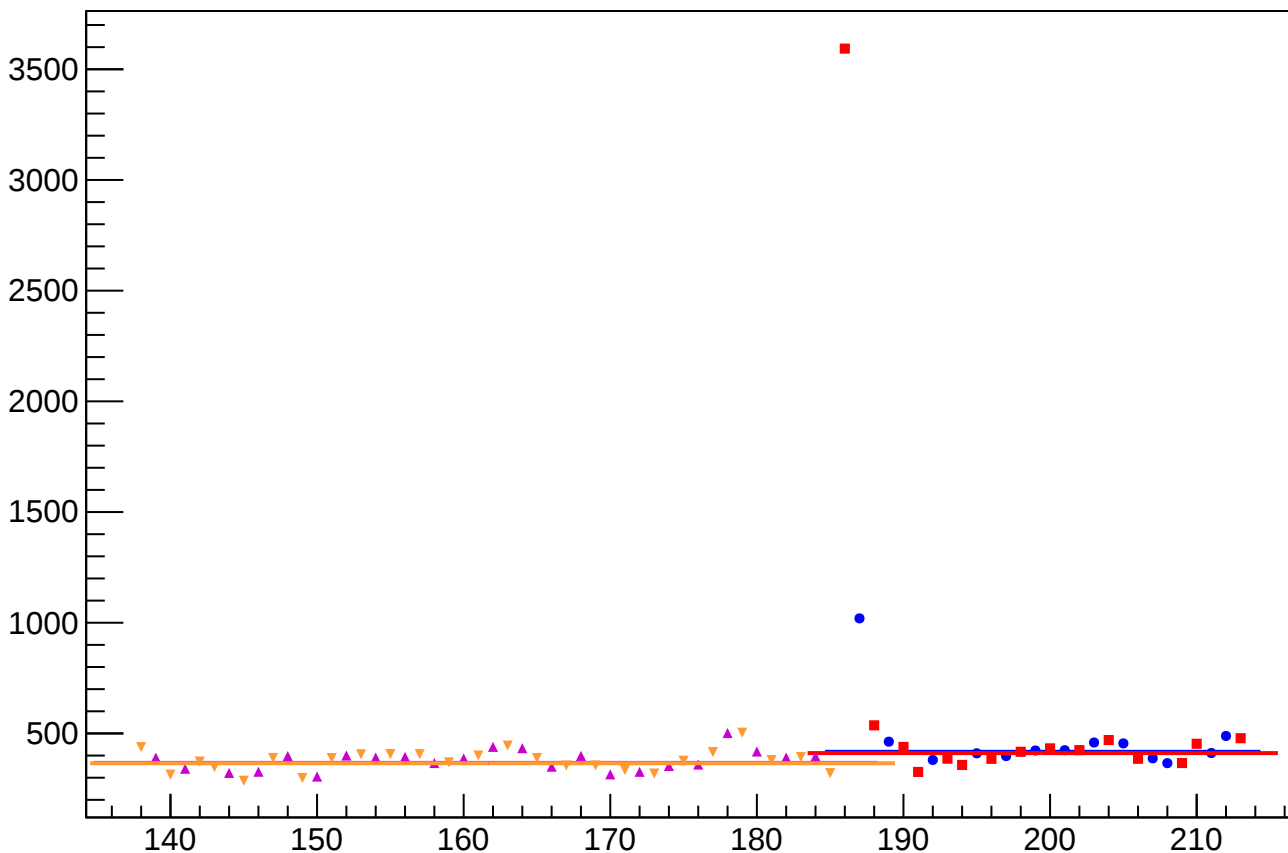
Right: -92.795 ± 95.625 χ^2/NDF : 40.3/27

In: 29.248 ± 74.677 χ^2/NDF : 41.6/35

Out: 89.385 ± 72.121 χ^2/NDF : 72.5/39

All: 60.364 ± 51.877 χ^2/NDF : 114.5/75

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 416.917+/-0.098 χ^2/NDF : 222927.5/12

Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24

Right Out: 411.204+/-0.093 χ^2/NDF : 856611.3/14

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

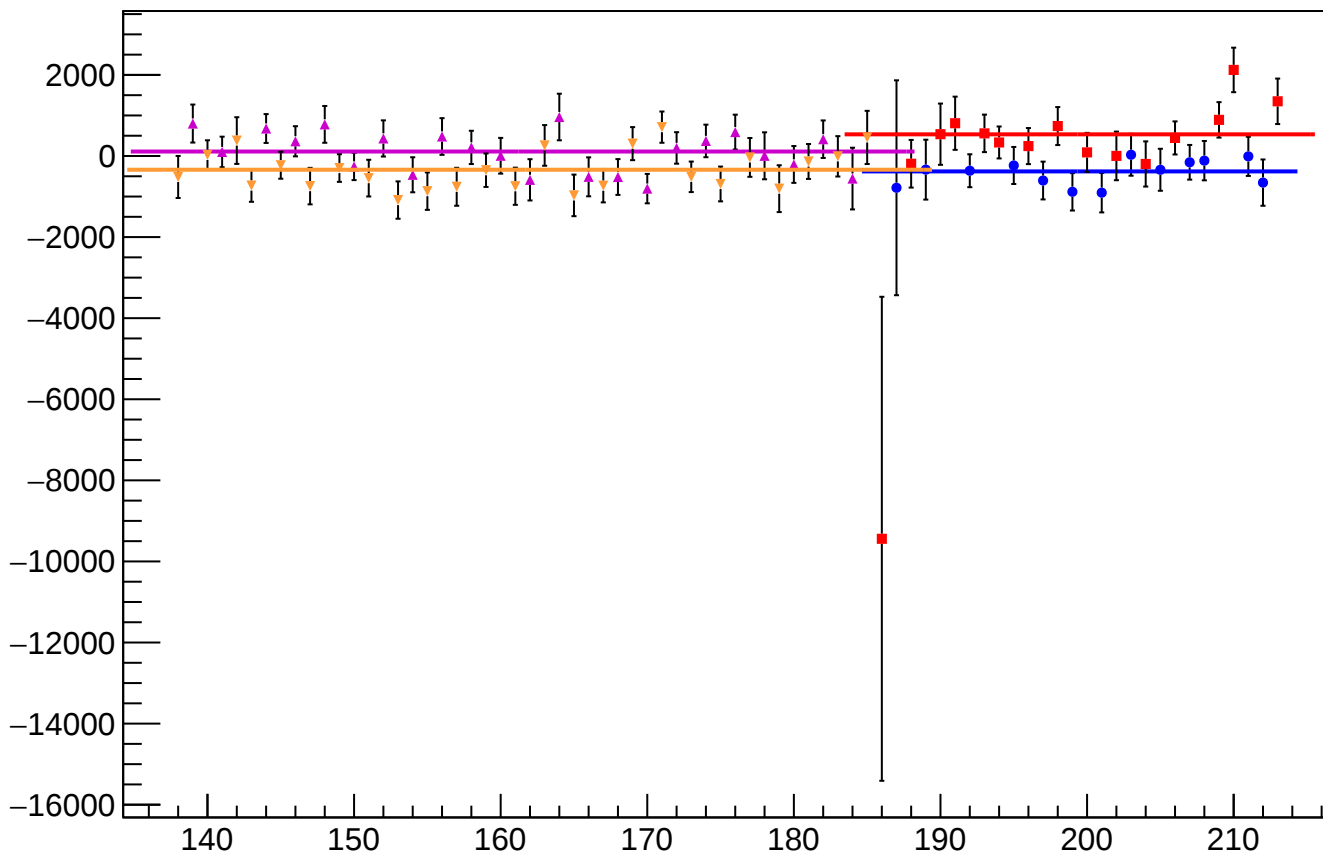
Right: 413.925+/-0.068 χ^2/NDF : 1081319.8/27

In: 381.447+/-0.053 χ^2/NDF : 885743.7/35

Out: 379.013+/-0.051 χ^2/NDF : 1644116.4/39

All: 380.187+/-0.037 χ^2/NDF : 2530959.2/75

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -380.072 ± 140.190 $\chi^2/\text{NDF}: 4.8/12$

Left Out: -338.528 ± 87.450 $\chi^2/\text{NDF}: 28.2/24$

Right Out: 534.082 ± 133.887 $\chi^2/\text{NDF}: 19.9/14$

Left In: 110.341 ± 90.084 $\chi^2/\text{NDF}: 29.2/22$

Left: -120.751 ± 62.747 $\chi^2/\text{NDF}: 70.2/47$

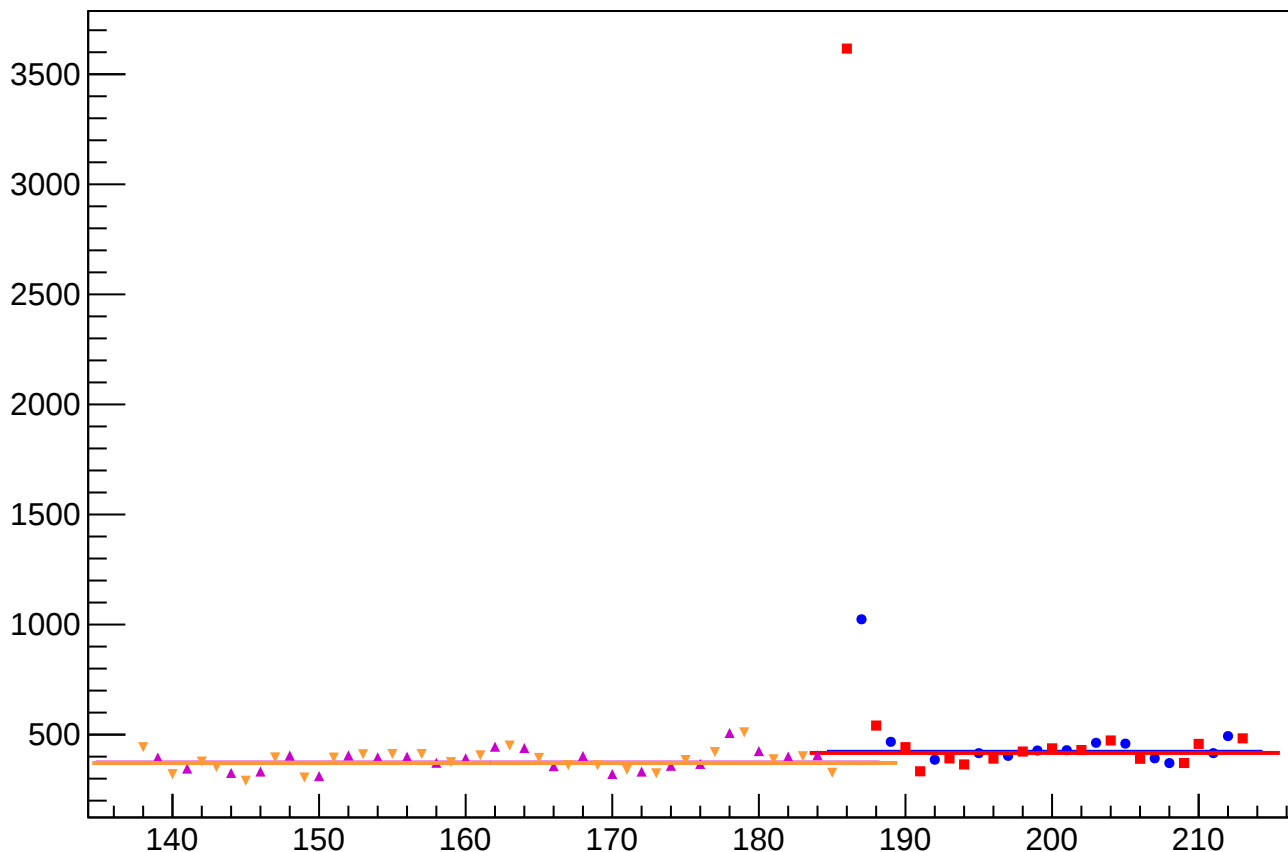
Right: 98.017 ± 96.824 $\chi^2/\text{NDF}: 46.9/27$

In: -32.979 ± 75.786 $\chi^2/\text{NDF}: 42.6/35$

Out: -77.579 ± 73.216 $\chi^2/\text{NDF}: 77.9/39$

All: -56.048 ± 52.657 $\chi^2/\text{NDF}: 120.7/75$

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 421.953 $\pm$ 0.099 χ^2 /NDF: 216625.1/12

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 416.844 $\pm$ 0.095 χ^2 /NDF: 842051.6/14

Left In: 372.938 $\pm$ 0.064 χ^2 /NDF: 467340.9/22

Left: 372.123 $\pm$ 0.044 χ^2 /NDF: 1071729.1/47

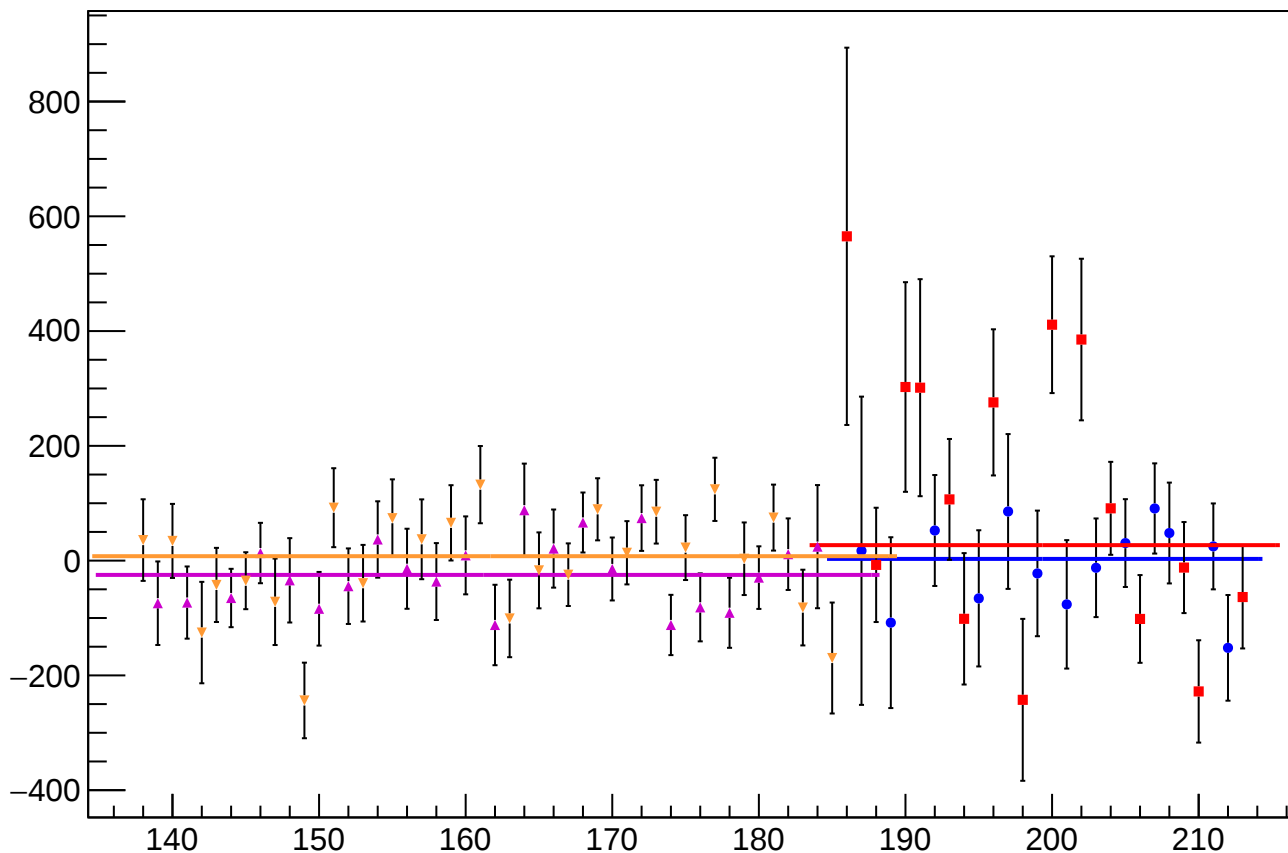
Right: 419.281 $\pm$ 0.068 χ^2 /NDF: 1060066.0/27

In: 387.262 $\pm$ 0.054 χ^2 /NDF: 857005.4/35

Out: 384.959 $\pm$ 0.052 χ^2 /NDF: 1607944.0/39

All: 386.071 $\pm$ 0.037 χ^2 /NDF: 2465905.0/75

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 2.996 ± 27.222 $\chi^2/\text{NDF}: 6.7/12$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 26.972 ± 27.734 $\chi^2/\text{NDF}: 46.2/14$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

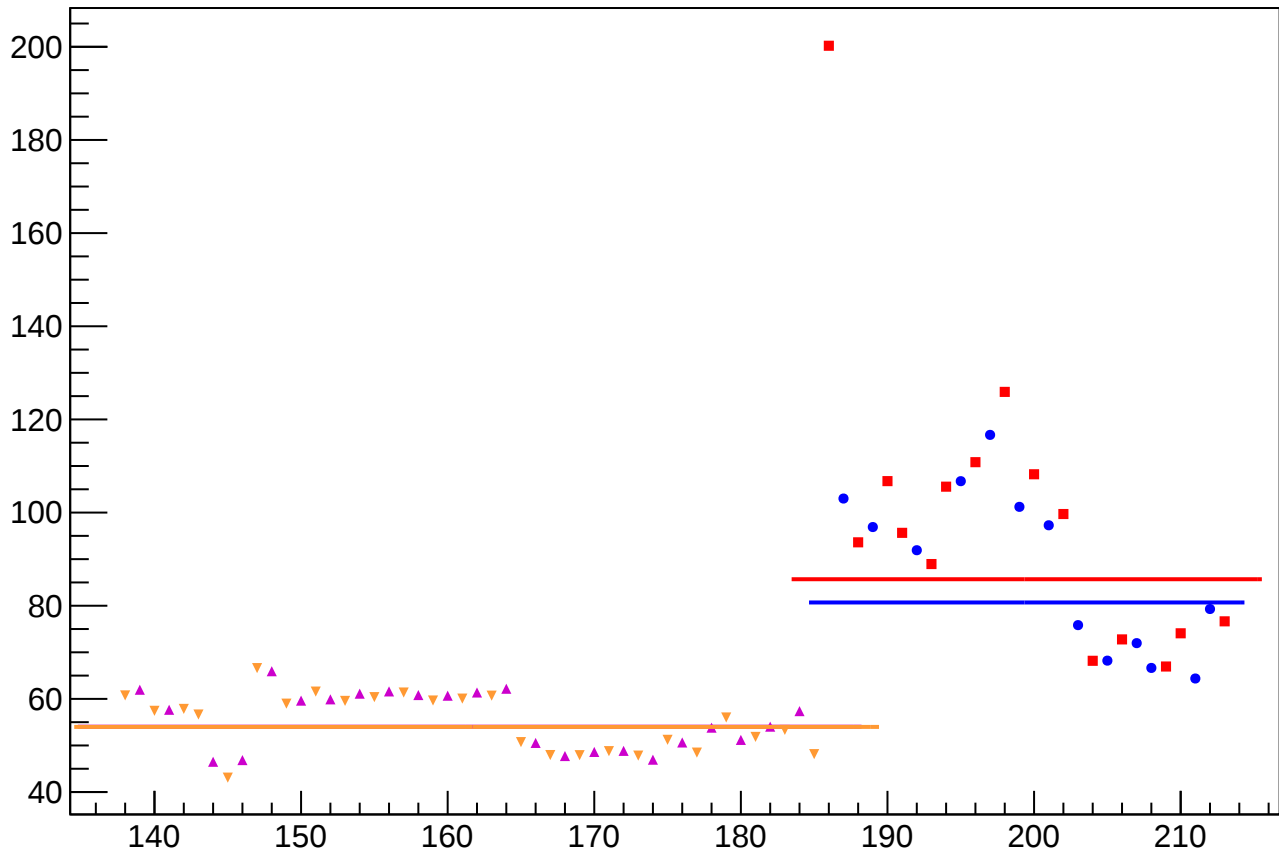
Right: 14.761 ± 19.427 $\chi^2/\text{NDF}: 53.3/27$

In: -19.691 ± 11.752 $\chi^2/\text{NDF}: 27.3/35$

Out: 11.041 ± 11.514 $\chi^2/\text{NDF}: 92.0/39$

All: -4.010 ± 8.224 $\chi^2/\text{NDF}: 122.8/75$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 80.701 $\pm$ 0.019 χ^2 /NDF: 648403.9/12

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 85.690 $\pm$ 0.020 χ^2 /NDF: 997945.8/14

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

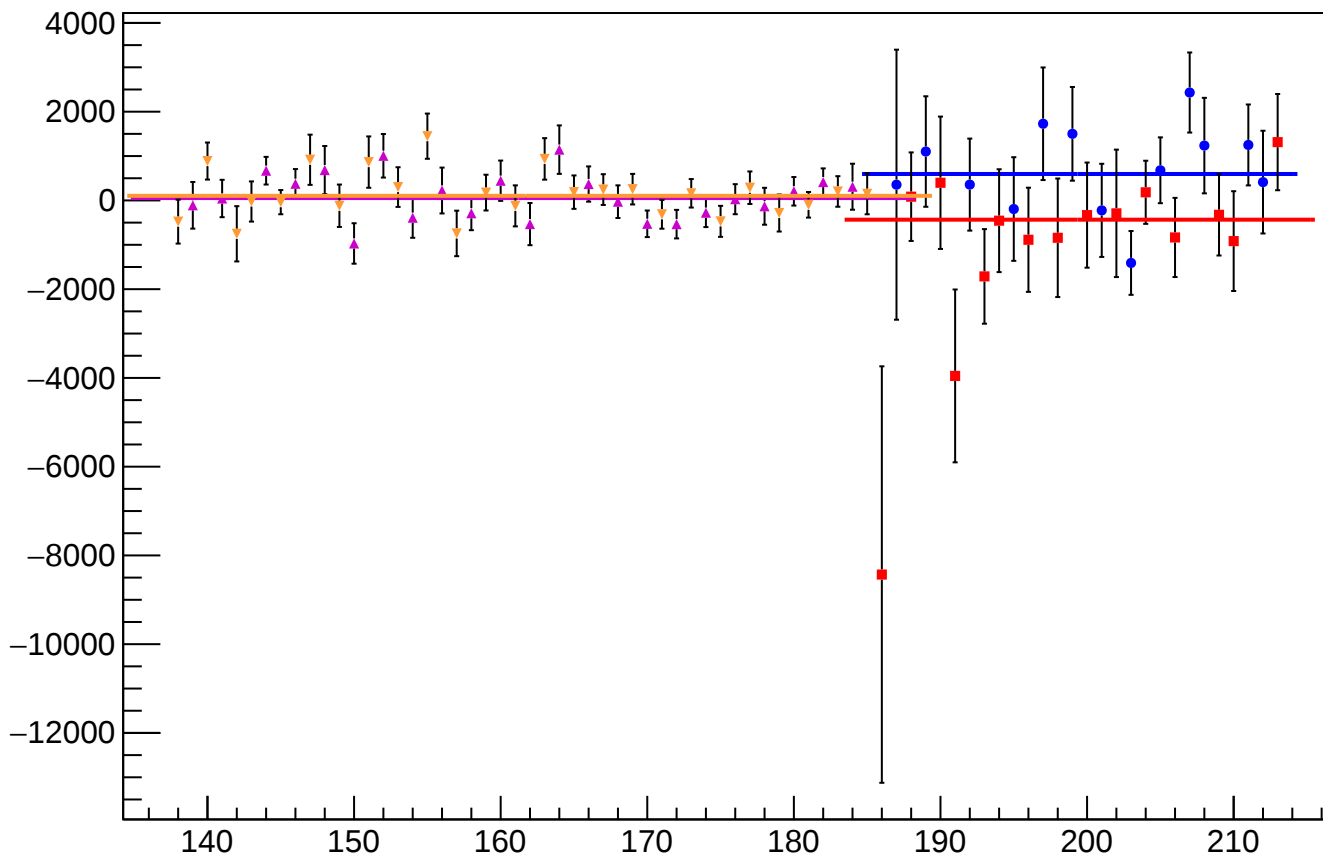
Right: 83.149 $\pm$ 0.014 χ^2 /NDF: 1679316.3/27

In: 58.999 $\pm$ 0.008 χ^2 /NDF: 2654502.5/35

Out: 59.448 $\pm$ 0.008 χ^2 /NDF: 3620372.3/39

All: 59.228 $\pm$ 0.006 χ^2 /NDF: 6276365.6/75

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 595.886 $\pm$ 281.308 χ^2 /NDF: 15.6/12

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -433.832 $\pm$ 289.449 χ^2 /NDF: 12.2/14

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

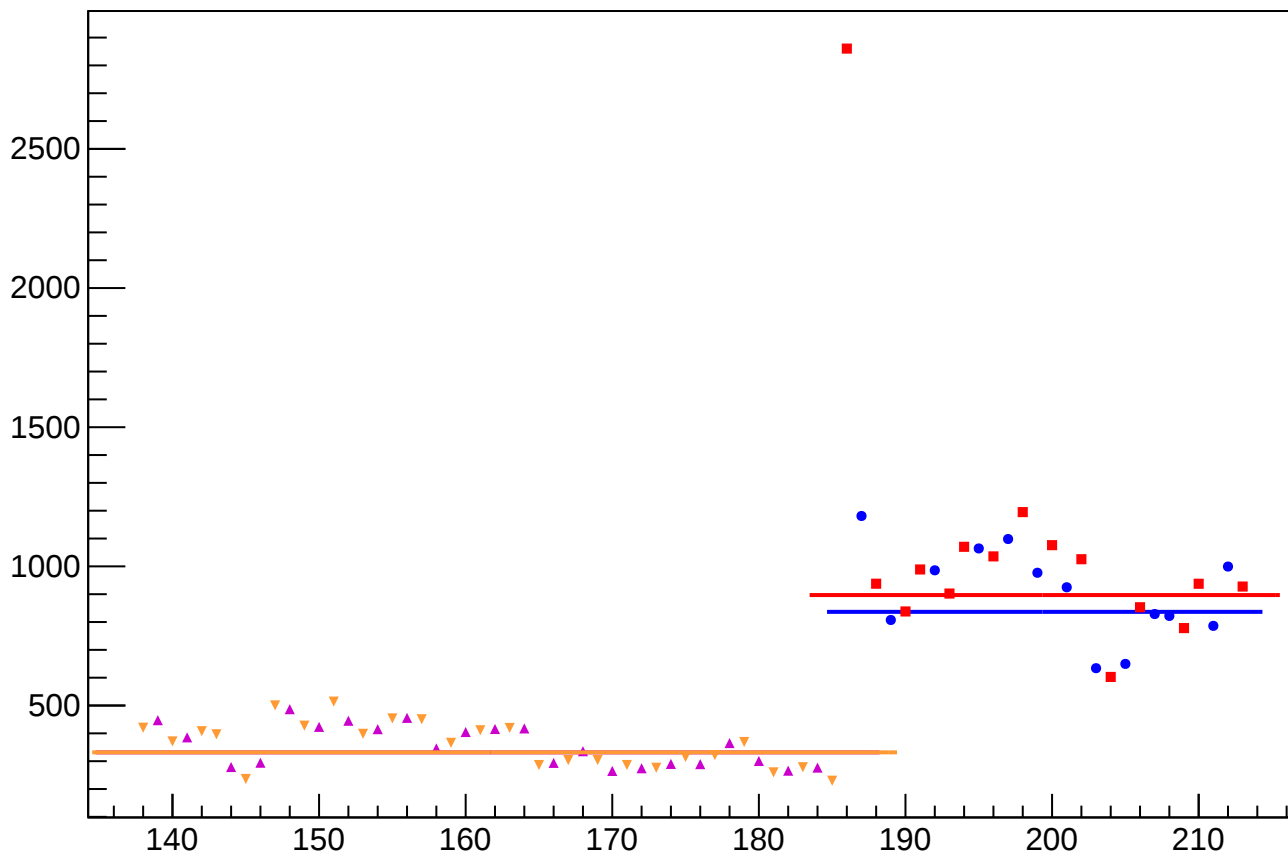
Right: 95.711 $\pm$ 201.731 χ^2 /NDF: 34.4/27

In: 95.210 $\pm$ 78.016 χ^2 /NDF:53.2/35

Out: 66.194 $\pm$ 76.521 χ^2 /NDF:46.4/39

All: 80.422 $\pm$ 54.629 χ^2 /NDF: 99.6/75

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 836.556+/-0.199 χ^2/NDF : 610740.6/12

Left Out: 331.770+/-0.056 χ^2/NDF : 1711721.9/24

Right Out: 896.929+/-0.205 χ^2/NDF : 980135.9/14

Left In: 331.666+/-0.057 χ^2/NDF : 1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

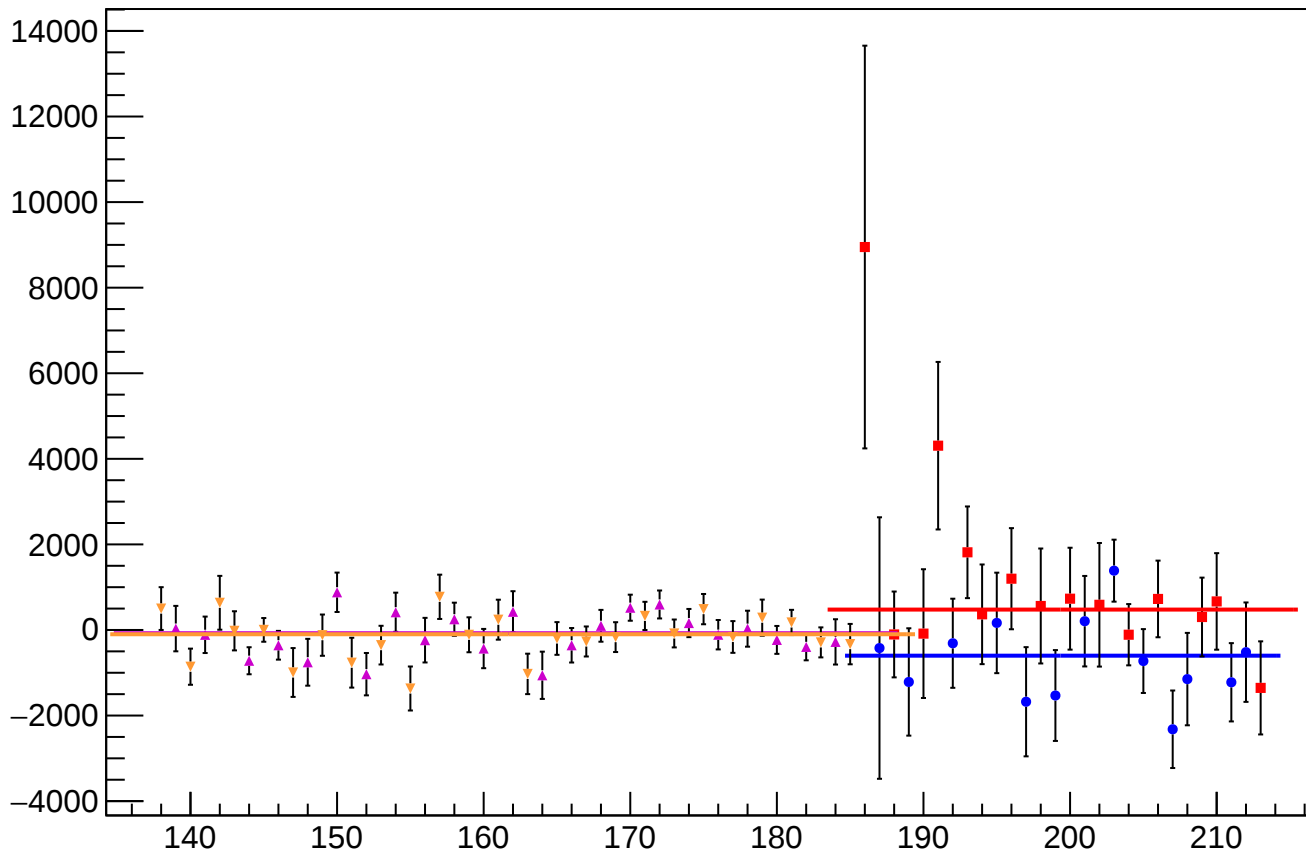
Right: 865.881+/-0.143 χ^2/NDF : 1635621.8/27

In: 370.499+/-0.055 χ^2/NDF : 7861011.5/35

Out: 371.270+/-0.054 χ^2/NDF : 9783731.1/39

All: 370.892+/-0.039 χ^2/NDF : 17644842.2/75

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -600.717 ± 282.847 χ^2/NDF : 14.7/12

Left Out: -99.785 ± 80.428 χ^2/NDF : 30.7/24

Right Out: 476.621 ± 290.964 χ^2/NDF : 13.2/14

Left In: -75.579 ± 82.319 χ^2/NDF : 32.1/22

Left: -87.963 ± 57.528 χ^2/NDF : 62.8/47

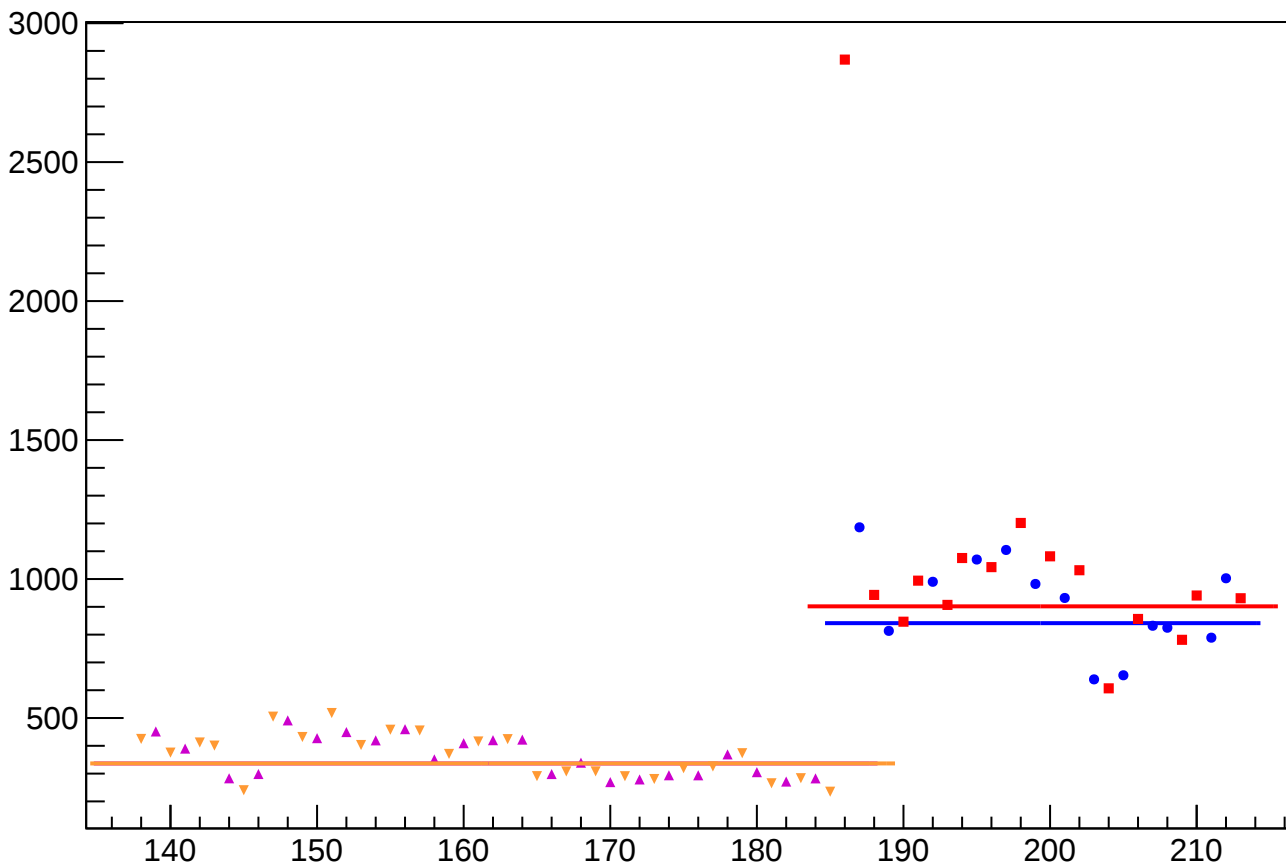
Right: -77.284 ± 202.812 χ^2/NDF : 34.9/27

In: -116.586 ± 79.039 χ^2/NDF : 50.0/35

Out: -58.870 ± 77.521 χ^2/NDF : 47.5/39

All: -87.168 ± 55.345 χ^2/NDF : 97.7/75

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 841.268 $\pm$ 0.200 χ^2 /NDF: 606531.7/12

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF: 1665919.4/24

Right Out: 901.738 $\pm$ 0.206 χ^2 /NDF: 977185.8/14

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

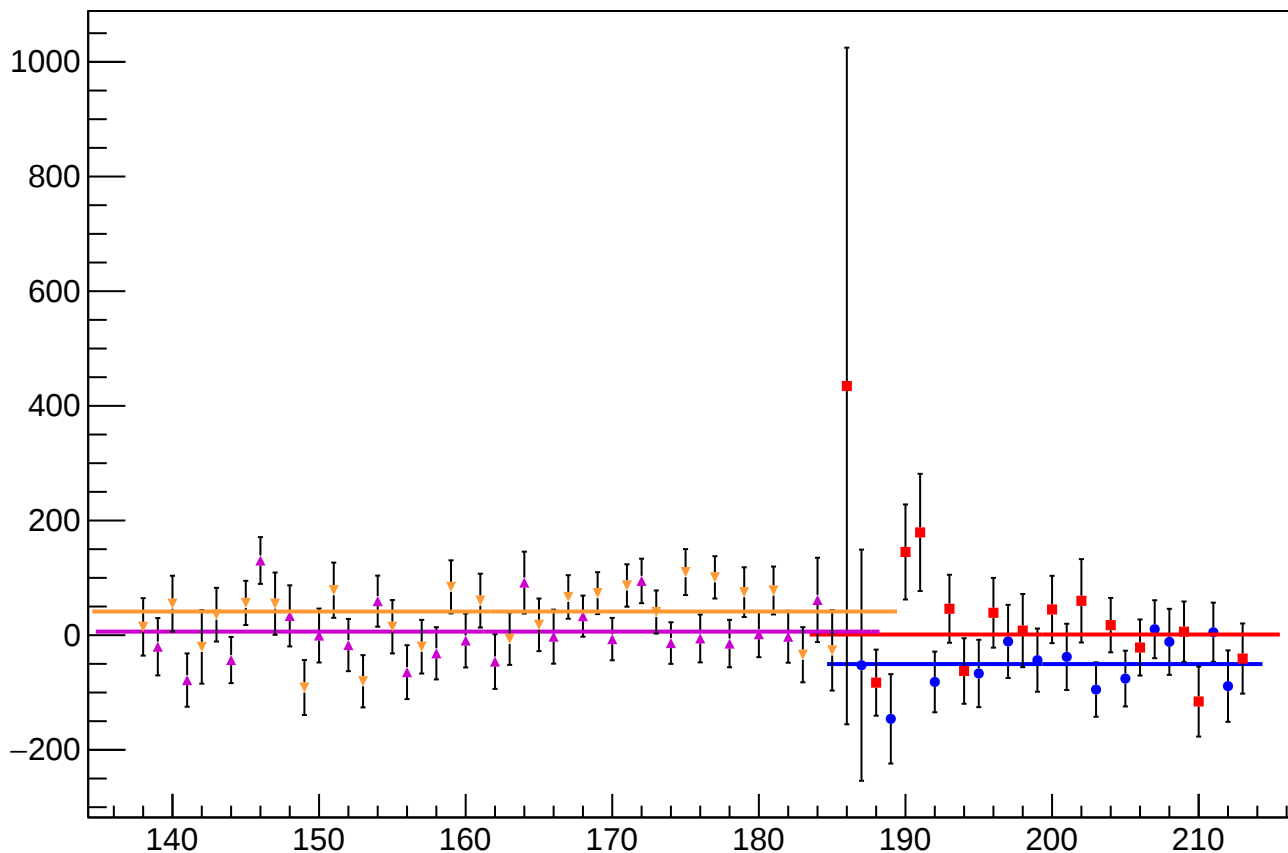
Right: 870.648 $\pm$ 0.143 χ^2 /NDF: 1628130.5/27

In: 375.860 $\pm$ 0.056 χ^2 /NDF: 7749204.8/35

Out: 376.676 $\pm$ 0.055 χ^2 /NDF: 9653613.3/39

All: 376.276 $\pm$ 0.039 χ^2 /NDF: 17402926.7/75

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -50.364 ± 16.006 $\chi^2/\text{NDF}: 7.0/12$

Left Out: 41.283 ± 8.889 $\chi^2/\text{NDF}: 34.4/24$

Right Out: 1.202 ± 16.038 $\chi^2/\text{NDF}: 16.6/14$

Left In: 6.254 ± 9.175 $\chi^2/\text{NDF}: 30.3/22$

Left: 24.322 ± 6.384 $\chi^2/\text{NDF}: 72.2/47$

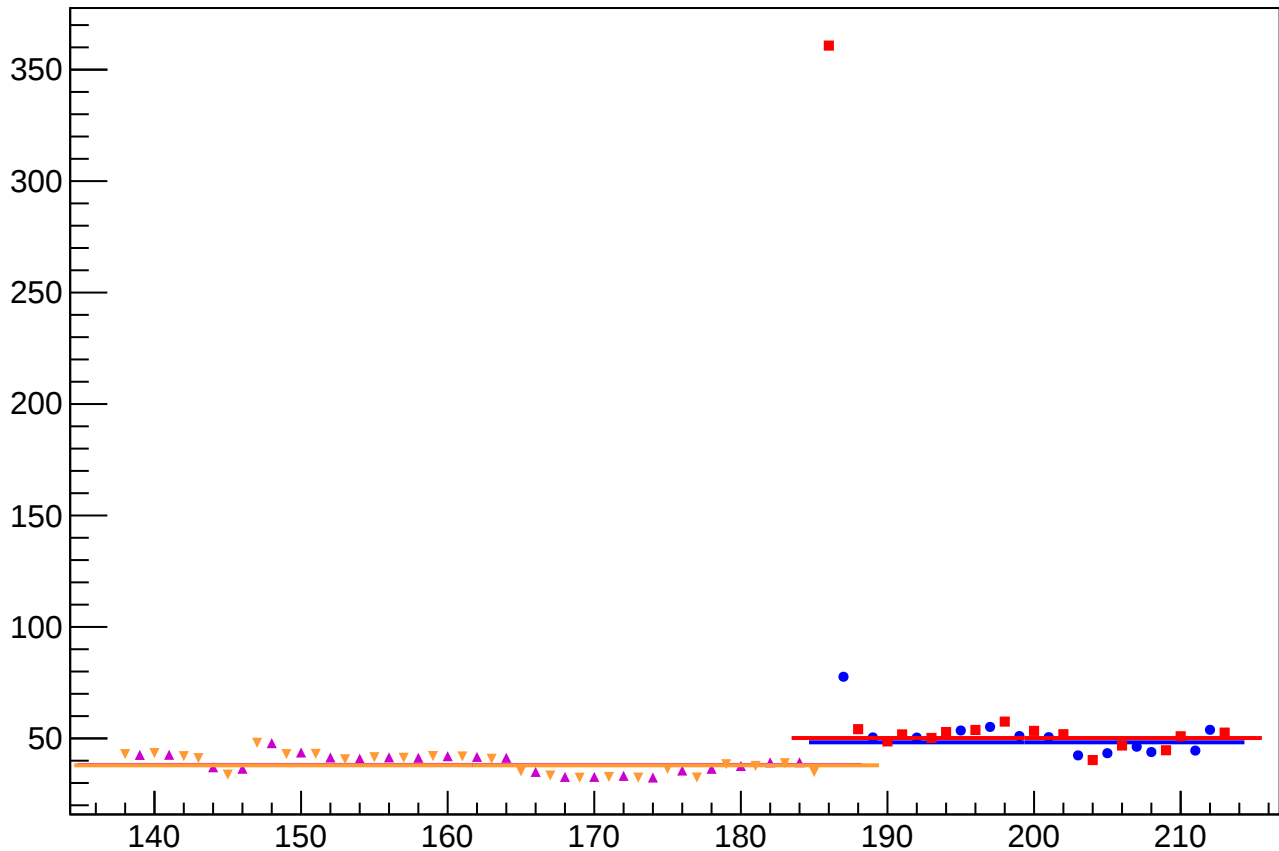
Right: -24.632 ± 11.329 $\chi^2/\text{NDF}: 28.7/27$

In: -7.748 ± 7.960 $\chi^2/\text{NDF}: 46.6/35$

Out: 31.864 ± 7.775 $\chi^2/\text{NDF}: 55.7/39$

All: 12.523 ± 5.562 $\chi^2/\text{NDF}: 115.1/75$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.242 $\pm$ 0.011 χ^2 /NDF: 187353.2/12

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 50.166 $\pm$ 0.011 χ^2 /NDF: 731214.1/14

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

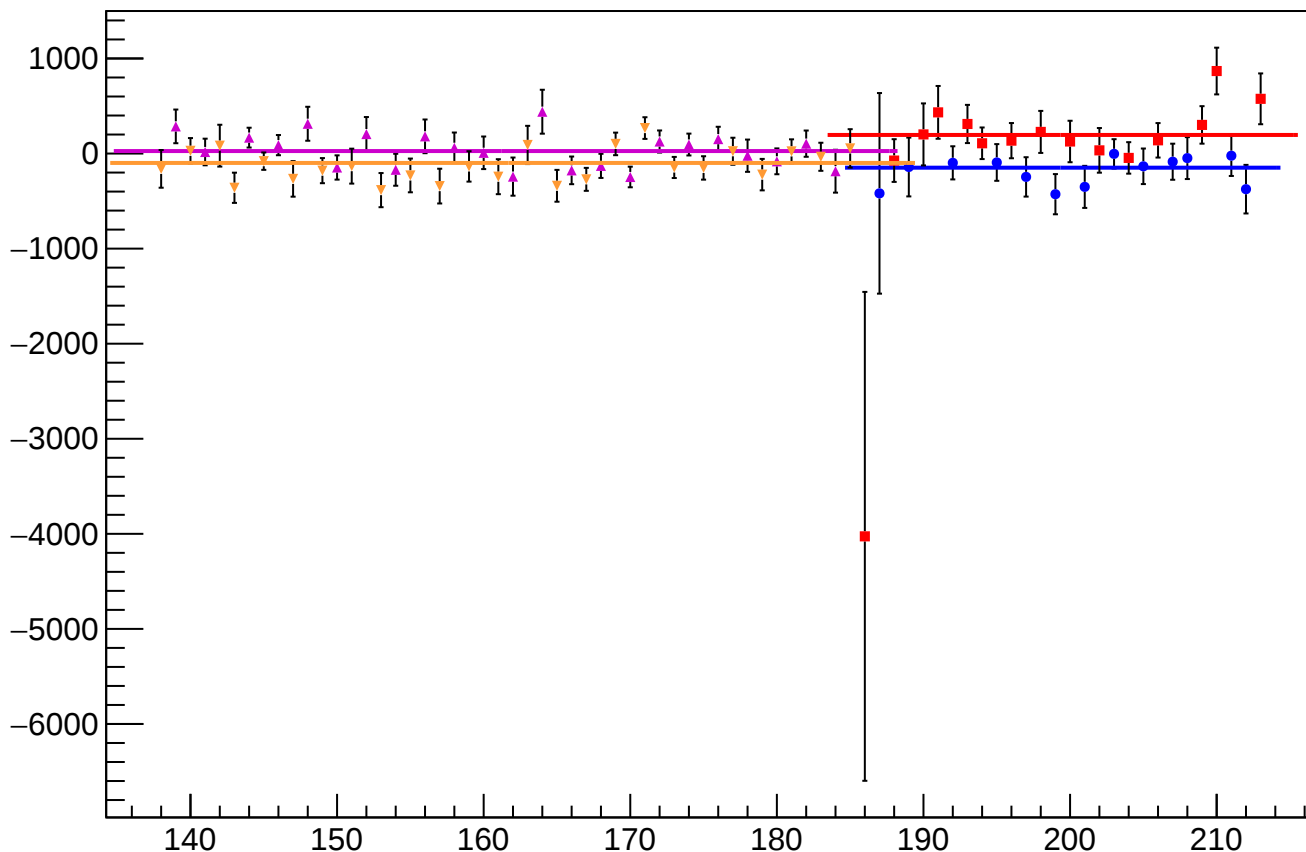
Right: 49.202 $\pm$ 0.008 χ^2 /NDF: 932996.3/27

In: 40.598 $\pm$ 0.006 χ^2 /NDF: 1189554.0/35

Out: 40.802 $\pm$ 0.005 χ^2 /NDF: 2109593.3/39

All: 40.703 $\pm$ 0.004 χ^2 /NDF: 3299815.4/75

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -148.636 ± 58.363 χ^2/NDF : 5.4/12

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 195.641 ± 56.318 χ^2/NDF : 18.2/14

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

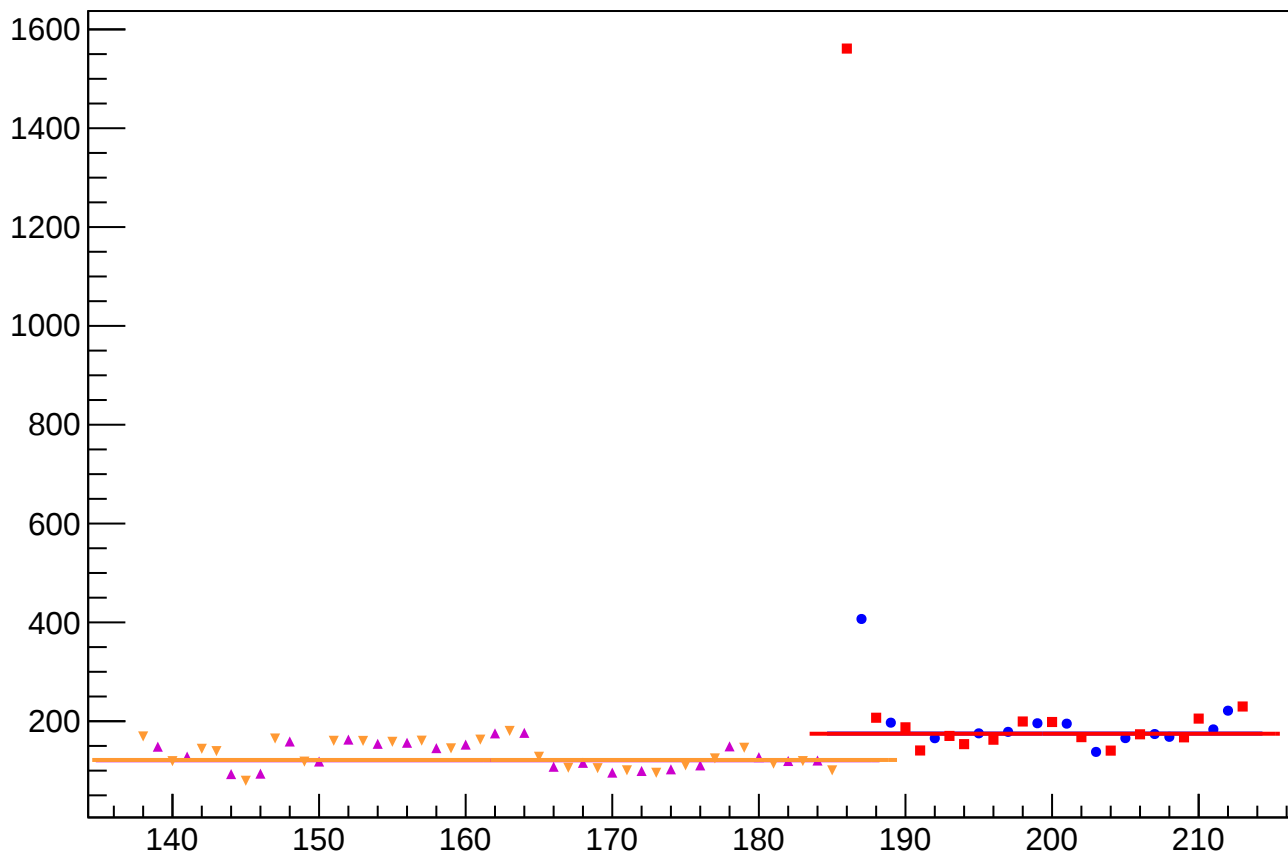
Right: 29.639 ± 40.526 χ^2/NDF : 41.6/27

In: -9.698 ± 26.452 χ^2/NDF : 43.2/35

Out: -36.723 ± 25.849 χ^2/NDF : 72.5/39

All: -23.522 ± 18.488 χ^2/NDF : 116.2/75

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 175.044+/-0.041 χ^2/NDF : 340332.2/12

Left Out: 121.592+/-0.021 χ^2/NDF : 1711423.9/24

Right Out: 174.671+/-0.040 χ^2/NDF : 952237.4/14

Left In: 120.927+/-0.021 χ^2/NDF : 1382861.4/22

Left: 121.266+/-0.015 χ^2/NDF : 3094797.5/47

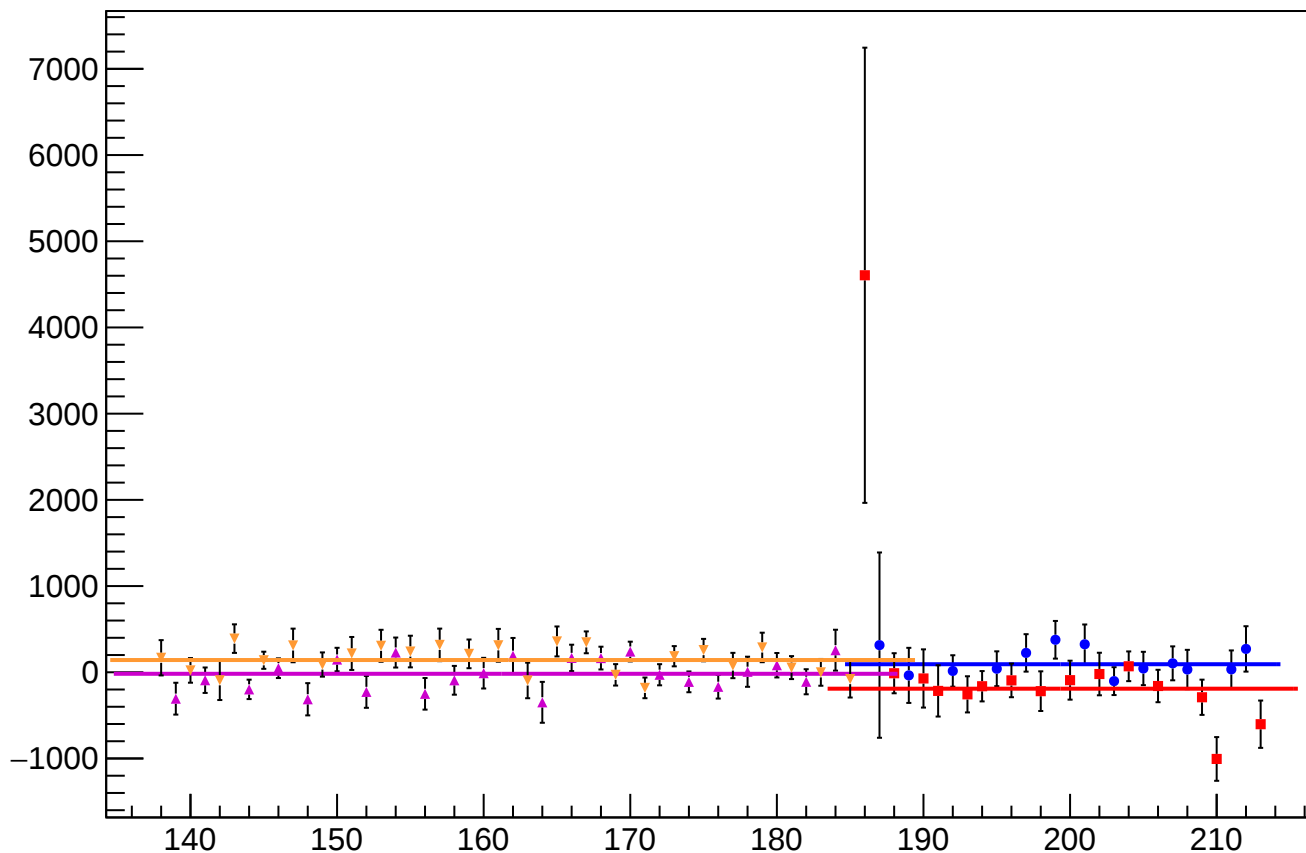
Right: 174.851+/-0.029 χ^2/NDF : 1292611.9/27

In: 132.044+/-0.019 χ^2/NDF : 3089537.2/35

Out: 132.774+/-0.018 χ^2/NDF : 4065949.3/39

All: 132.418+/-0.013 χ^2/NDF : 7156265.9/75

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 93.344 ± 60.667 χ^2/NDF : 5.7/12

Left Out: 142.014 ± 30.574 χ^2/NDF : 26.9/24

Right Out: -190.504 ± 58.761 χ^2/NDF : 20.2/14

Left In: -17.679 ± 31.209 χ^2/NDF : 30.1/22

Left: 63.807 ± 21.840 χ^2/NDF : 70.4/47

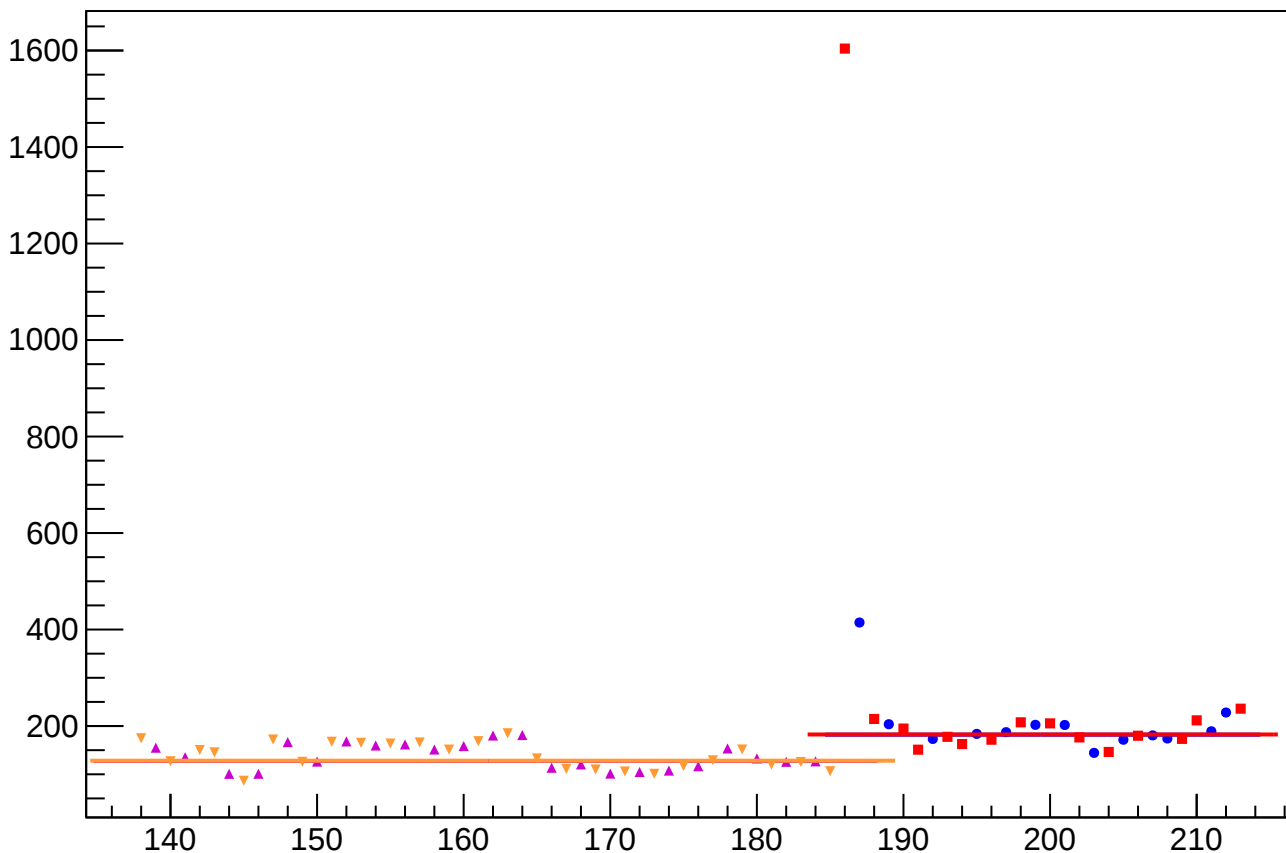
Right: -53.109 ± 42.208 χ^2/NDF : 37.2/27

In: 5.553 ± 27.752 χ^2/NDF : 38.5/35

Out: 71.172 ± 27.123 χ^2/NDF : 72.3/39

All: 39.115 ± 19.397 χ^2/NDF : 113.6/75

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 182.102 $\pm$ 0.043 χ^2 /NDF: 321669.5/12

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF: 1532922.0/24

Right Out: 182.510 $\pm$ 0.042 χ^2 /NDF: 916876.2/14

Left In: 127.544 $\pm$ 0.022 χ^2 /NDF: 1235705.3/22

Left: 127.866 $\pm$ 0.015 χ^2 /NDF: 2769045.1/47

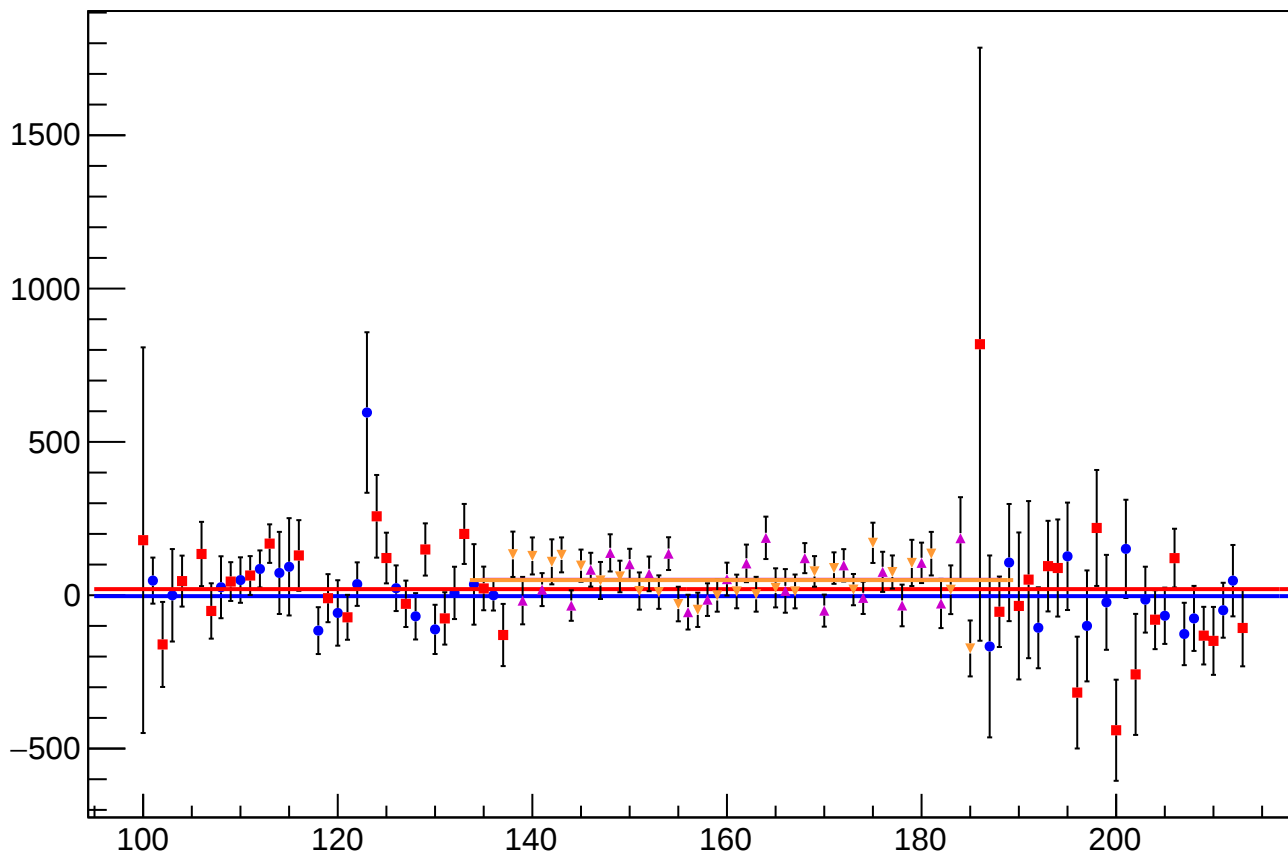
Right: 182.313 $\pm$ 0.030 χ^2 /NDF: 1238592.4/27

In: 138.960 $\pm$ 0.020 χ^2 /NDF: 2836419.7/35

Out: 139.751 $\pm$ 0.019 χ^2 /NDF: 3795539.0/39

All: 139.365 $\pm$ 0.014 χ^2 /NDF: 6632789.2/75

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.960 ± 17.451 $\chi^2/\text{NDF}: 20.6/29$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 19.947 ± 17.068 $\chi^2/\text{NDF}: 50.7/33$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

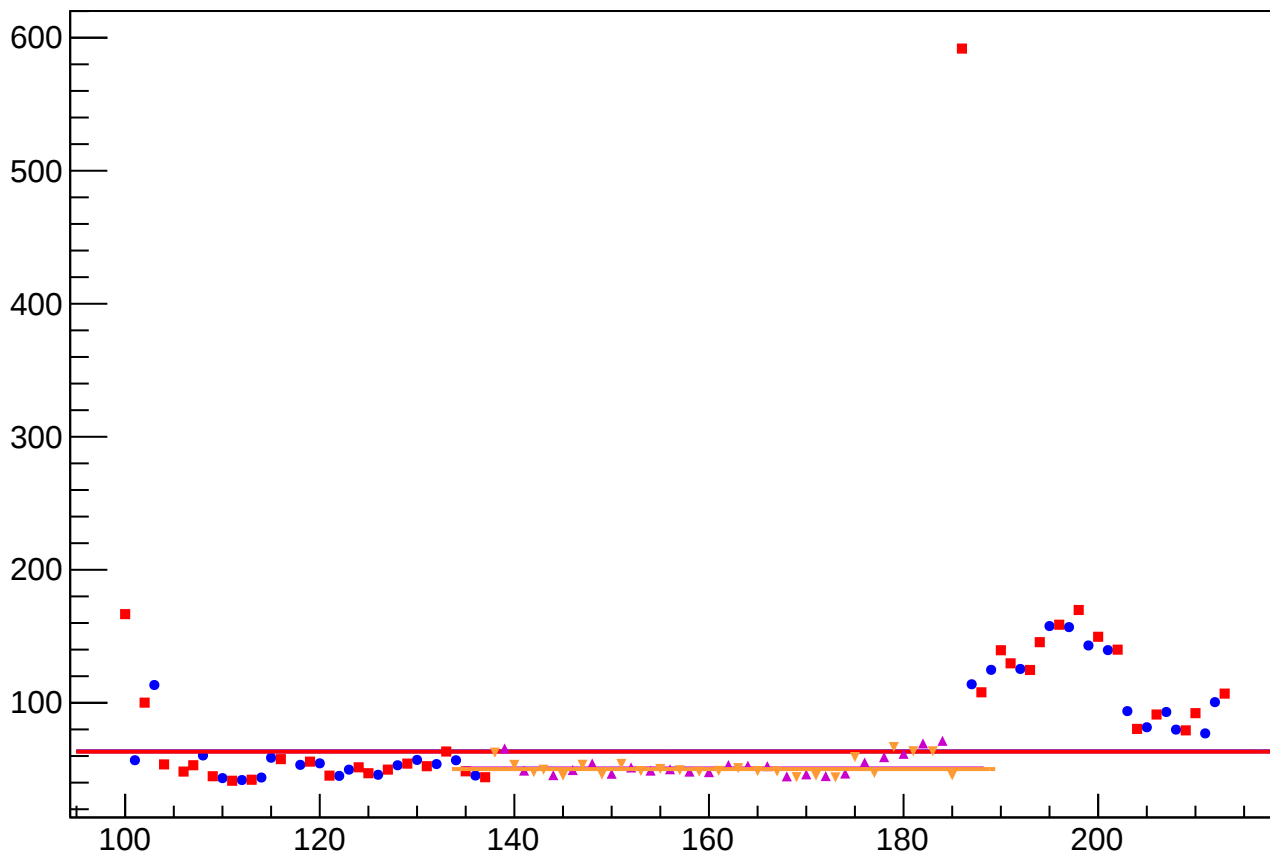
Right: 8.747 ± 12.202 $\chi^2/\text{NDF}: 72.2/63$

In: 32.732 ± 10.028 $\chi^2/\text{NDF}: 59.0/52$

Out: 39.870 ± 9.709 $\chi^2/\text{NDF}: 80.8/58$

All: 36.417 ± 6.976 $\chi^2/\text{NDF}: 140.1/111$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 63.490+/-0.012 χ^2/NDF : 4831100.2/29

Left Out: 50.189+/-0.008 χ^2/NDF : 467679.2/24

Right Out: 63.311+/-0.012 χ^2/NDF : 6263098.9/33

Left In: 50.683+/-0.009 χ^2/NDF : 469292.3/22

Left: 50.427+/-0.006 χ^2/NDF : 938655.0/47

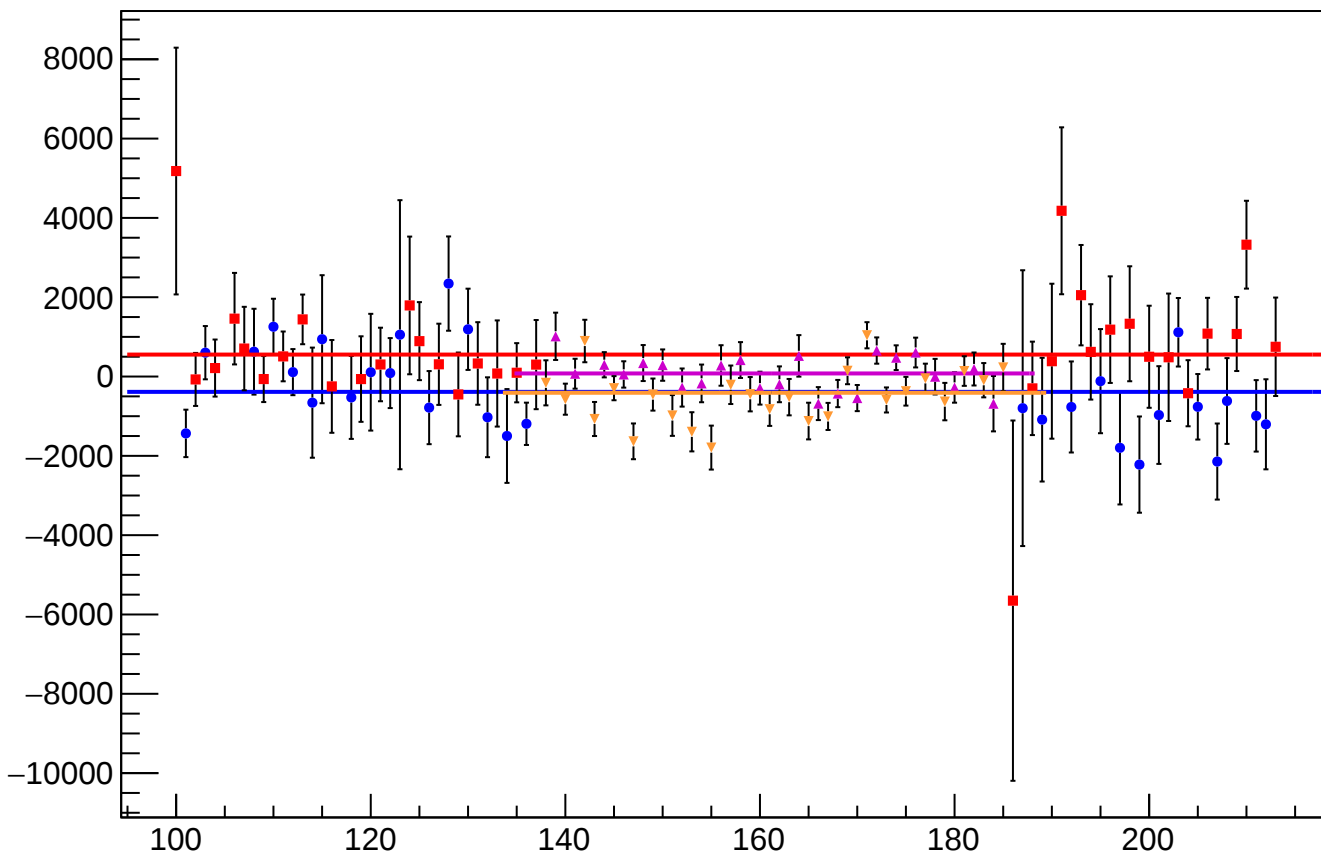
Right: 63.398+/-0.009 χ^2/NDF : 11094306.0/63

In: 54.912+/-0.007 χ^2/NDF : 6021838.3/52

Out: 54.436+/-0.007 χ^2/NDF : 7530327.4/58

All: 54.666+/-0.005 χ^2/NDF : 13554498.1/111

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -386.528 ± 174.216 χ^2/NDF : 36.4/29

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 553.804 ± 171.777 χ^2/NDF : 25.7/33

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

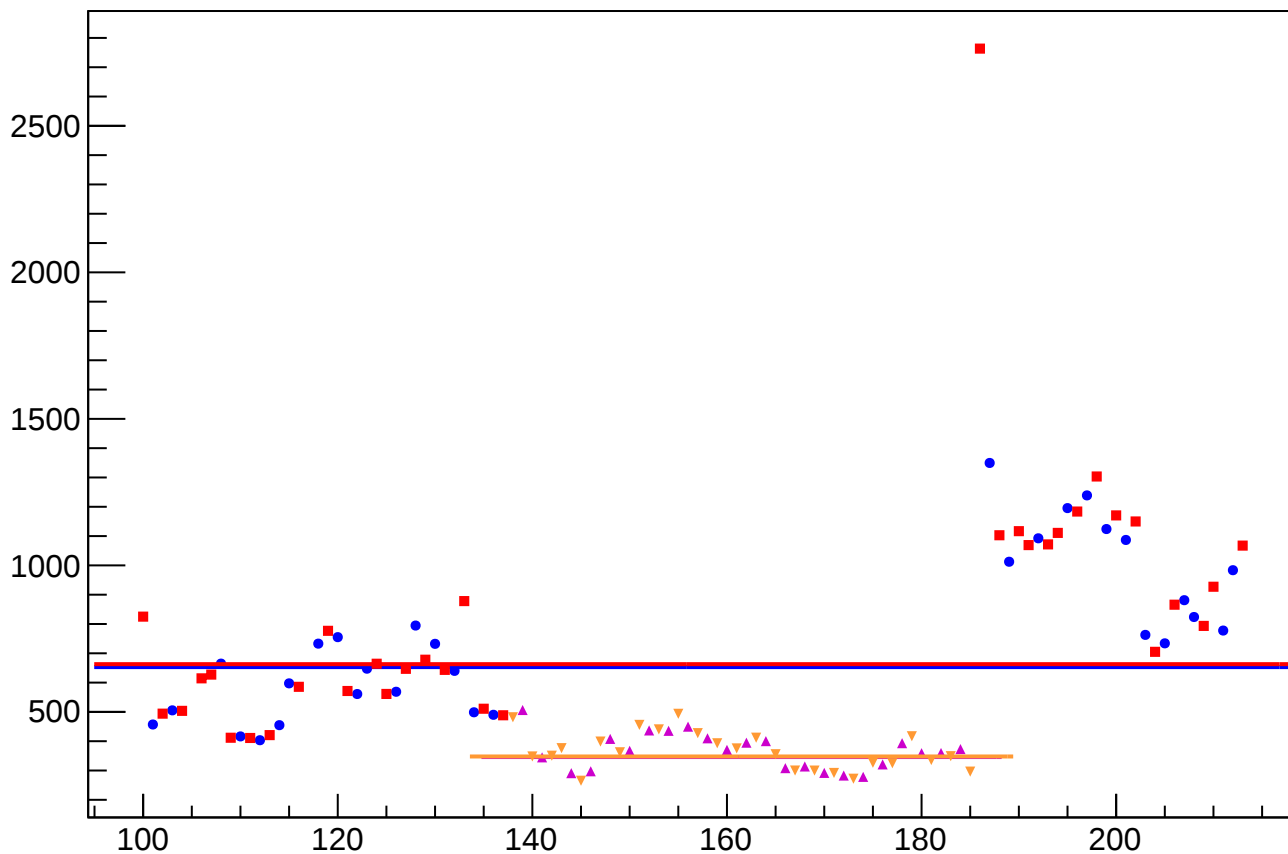
Right: 90.268 ± 122.318 χ^2/NDF : 76.9/63

In: -9.849 ± 75.717 χ^2/NDF : 67.0/52

Out: -229.214 ± 74.257 χ^2/NDF : 113.0/58

All: -121.667 ± 53.016 χ^2/NDF : 184.3/111

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 652.917+/-0.123 χ^2/NDF : 3398609.6/29

Left Out: 347.875+/-0.058 χ^2/NDF : 1044096.7/24

Right Out: 662.940+/-0.121 χ^2/NDF : 4521172.6/33

Left In: 345.954+/-0.059 χ^2/NDF : 900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

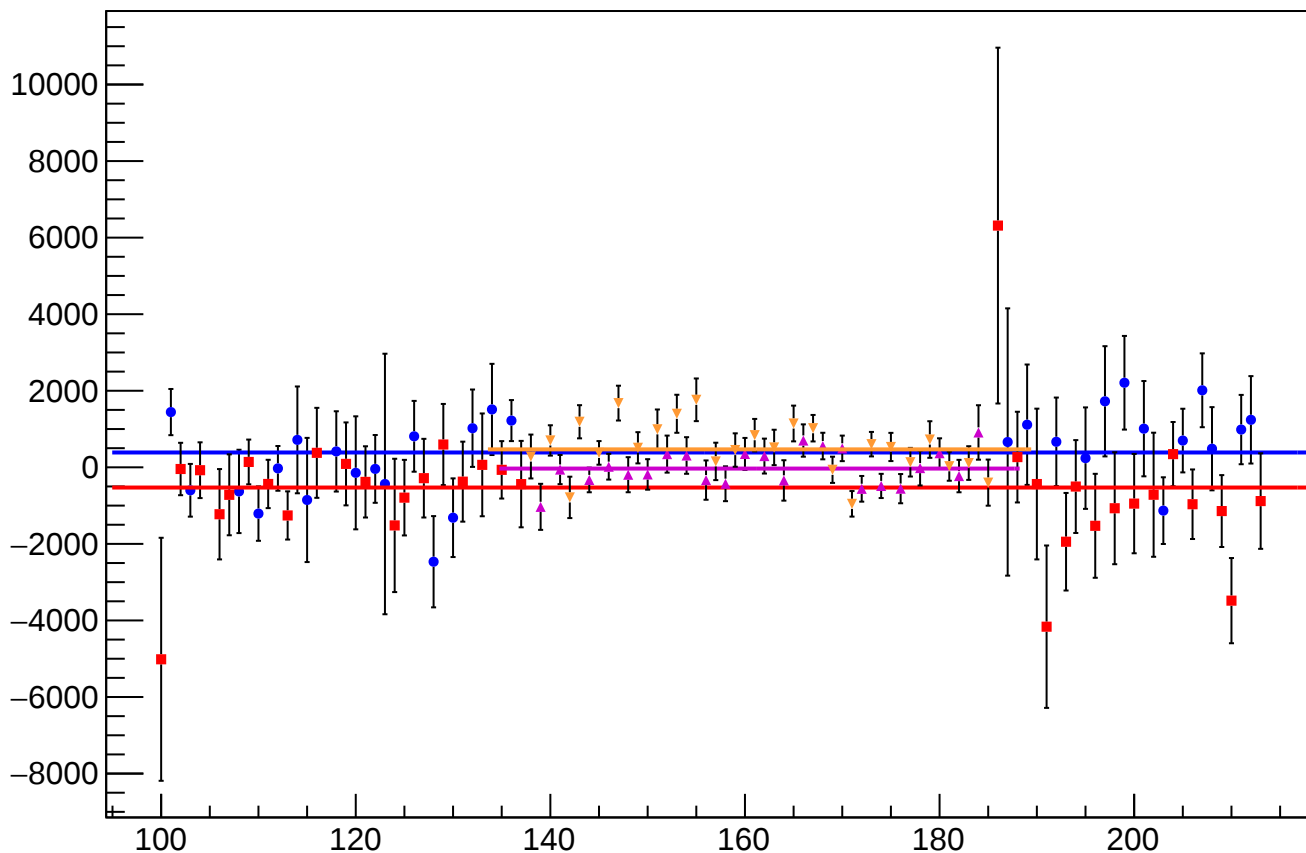
Right: 657.999+/-0.086 χ^2/NDF : 7923138.5/63

In: 403.936+/-0.054 χ^2/NDF : 9335666.9/52

Out: 406.751+/-0.053 χ^2/NDF : 11036185.0/58

All: 405.371+/-0.037 χ^2/NDF : 20373261.2/111

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 387.551 ± 175.435 $\chi^2/\text{NDF}: 35.6/29$

Left Out: 468.863 ± 83.295 $\chi^2/\text{NDF}: 57.5/24$

Right Out: -528.061 ± 173.067 $\chi^2/\text{NDF}: 25.5/33$

Left In: -32.801 ± 85.064 $\chi^2/\text{NDF}: 25.7/22$

Left: 223.299 ± 59.514 $\chi^2/\text{NDF}: 100.9/47$

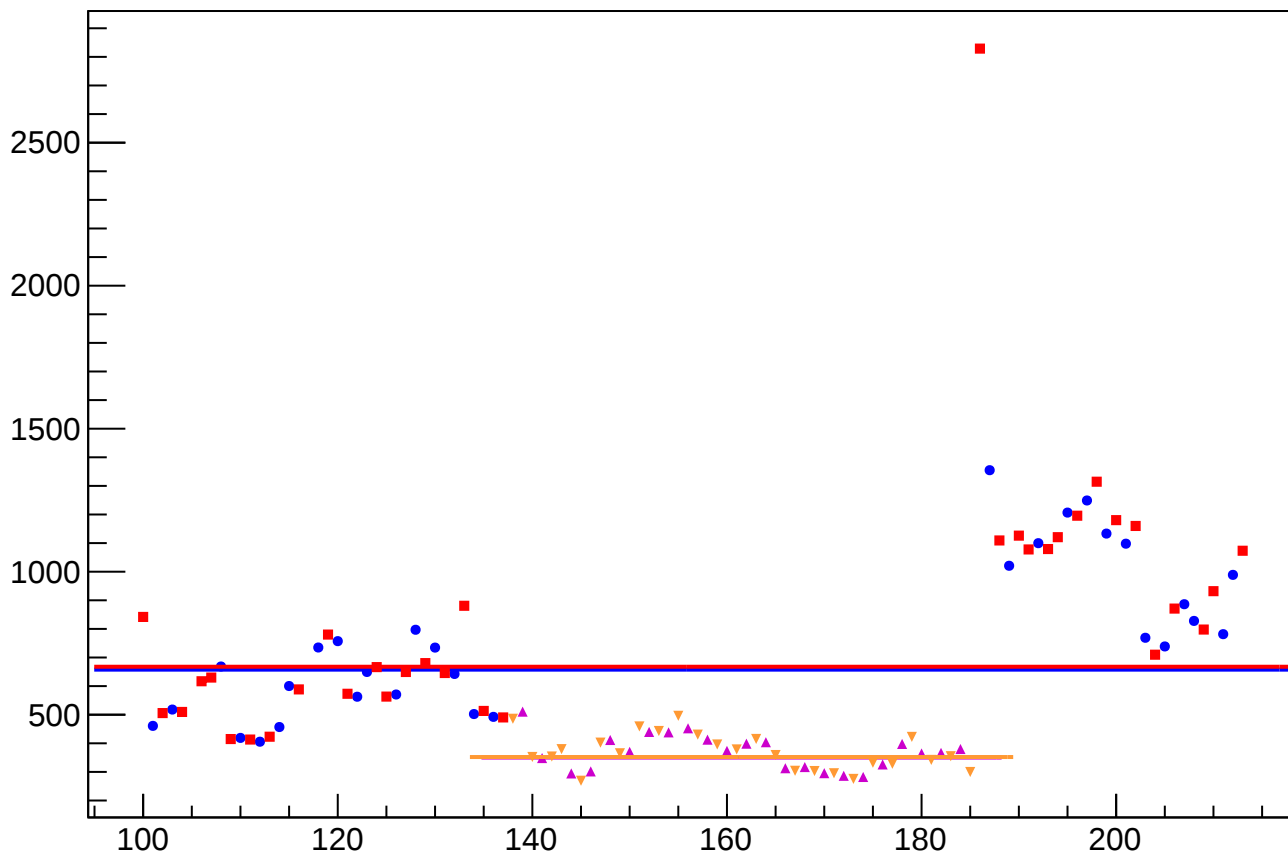
Right: -76.478 ± 123.206 $\chi^2/\text{NDF}: 75.0/63$

In: 47.213 ± 76.541 $\chi^2/\text{NDF}: 66.0/52$

Out: 281.367 ± 75.055 $\chi^2/\text{NDF}: 110.0/58$

All: 166.584 ± 53.589 $\chi^2/\text{NDF}: 180.7/111$

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 657.574 $\pm$ 0.124 χ^2 /NDF: 3391664.0/29

Left Out: 352.015 $\pm$ 0.059 χ^2 /NDF: 1017195.6/24

Right Out: 667.723 $\pm$ 0.122 χ^2 /NDF: 4519176.8/33

Left In: 350.160 $\pm$ 0.060 χ^2 /NDF: 878380.0/22

Left: 351.107 $\pm$ 0.042 χ^2 /NDF: 1896060.8/47

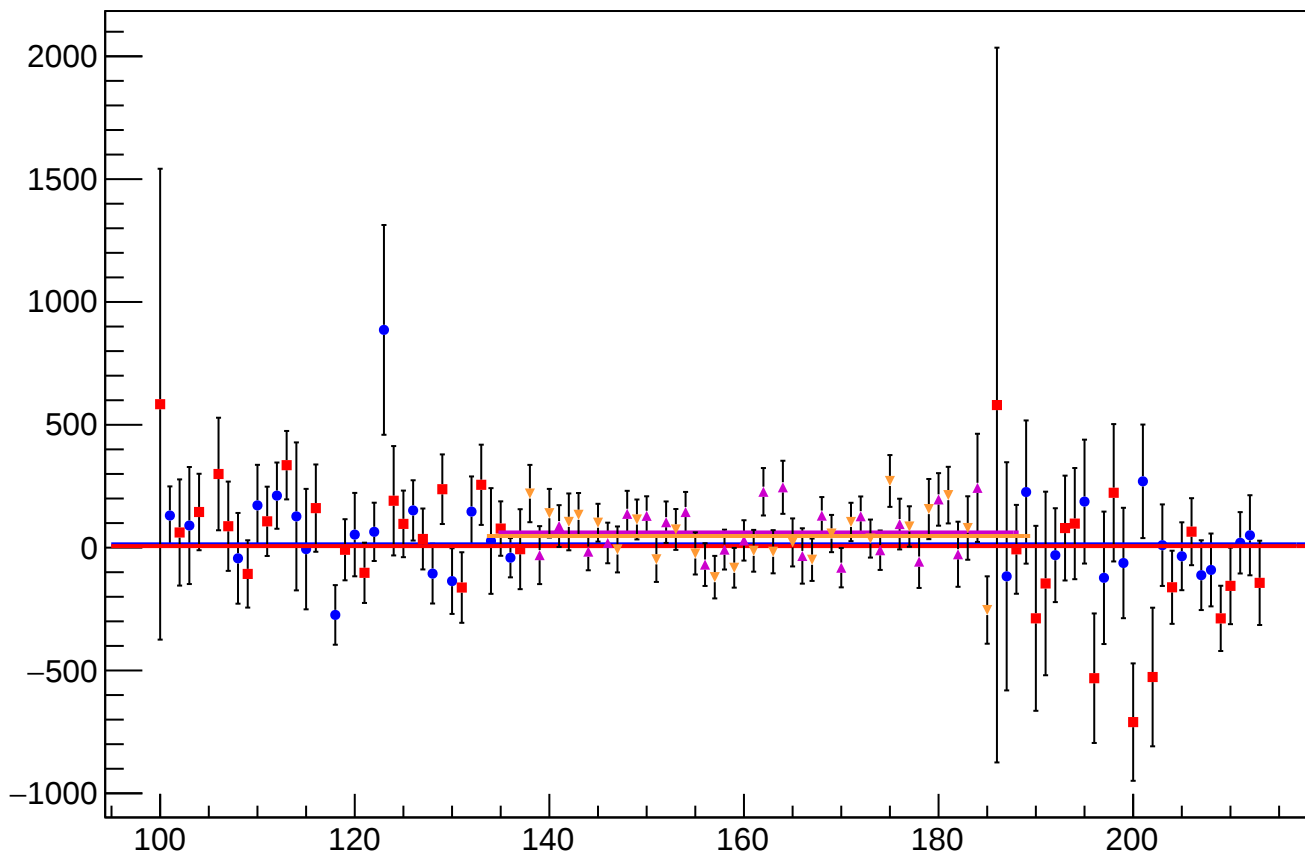
Right: 662.718 $\pm$ 0.087 χ^2 /NDF: 7914232.9/63

In: 408.676 $\pm$ 0.054 χ^2 /NDF: 9242155.6/52

Out: 411.392 $\pm$ 0.053 χ^2 /NDF: 10940083.9/58

All: 410.061 $\pm$ 0.038 χ^2 /NDF: 20183522.6/110

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 13.462 $\pm$ 28.503 χ^2 /NDF: 23.4/29

Left Out: 47.426 $\pm$ 18.253 χ^2 /NDF:29.4/24

Right Out: 6.265 $\pm$ 28.861 χ^2 /NDF: 46.1/33

Left In: 61.830 $\pm$ 18.958 χ^2 /NDF:24.0/22

Left: 54.355 $\pm$ 13.149 χ^2 /NDF: 53.7/47

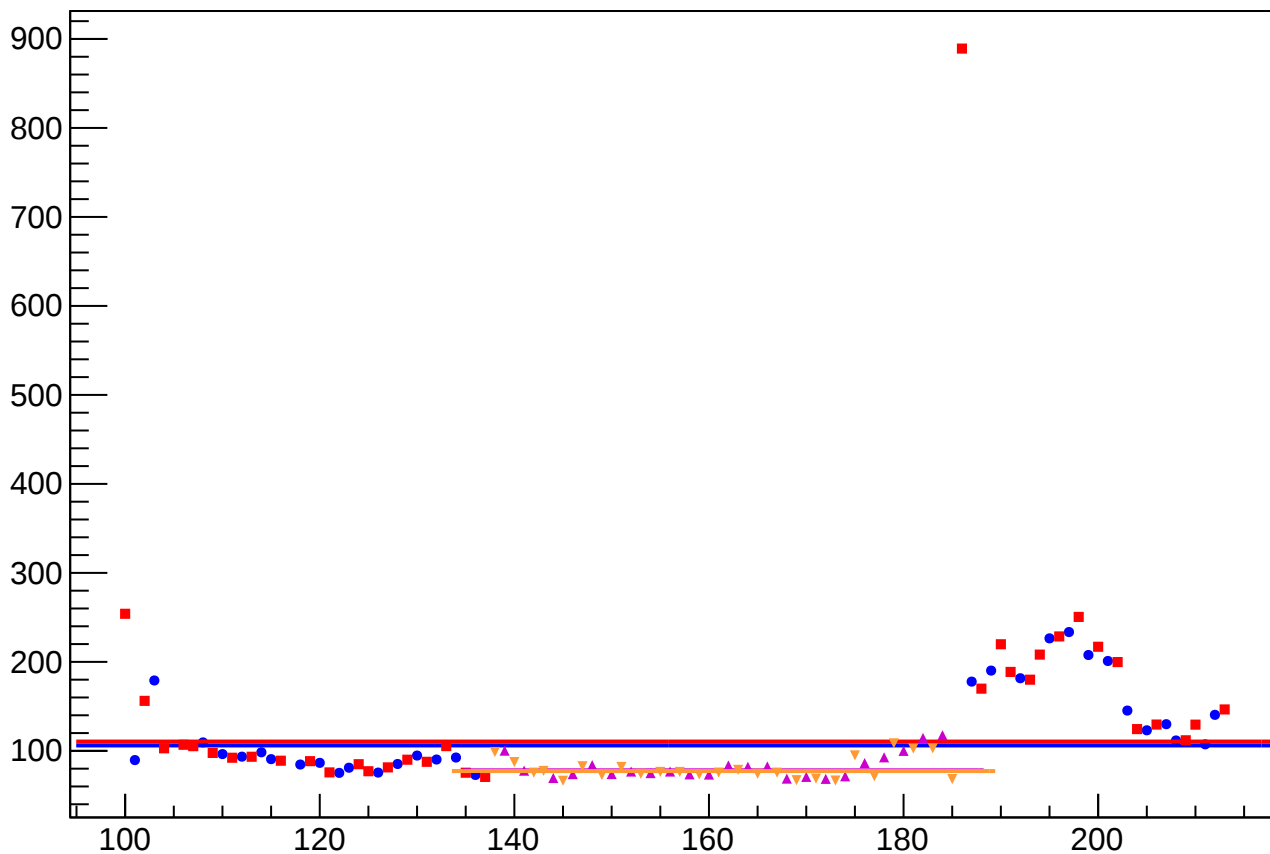
Right: 9.908 $\pm$ 20.280 χ^2 /NDF: 69.6/63

In: 46.996 $\pm$ 15.785 χ^2 /NDF:49.4/52

Out: 35.666 $\pm$ 15.427 χ^2 /NDF:77.0/58

All: 41.201 $\pm$ 11.033 χ^2 /NDF: 126.7/111

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 106.096 $\pm$ 0.020 χ^2 /NDF: 3531438.0/29

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF:635622.3/24

Right Out: 110.479 $\pm$ 0.020 χ^2 /NDF: 4451234.0/33

Left In: 78.139 $\pm$ 0.013 χ^2 /NDF:582108.1/22

Left: 77.712 $\pm$ 0.009 χ^2 /NDF: 1219684.1/47

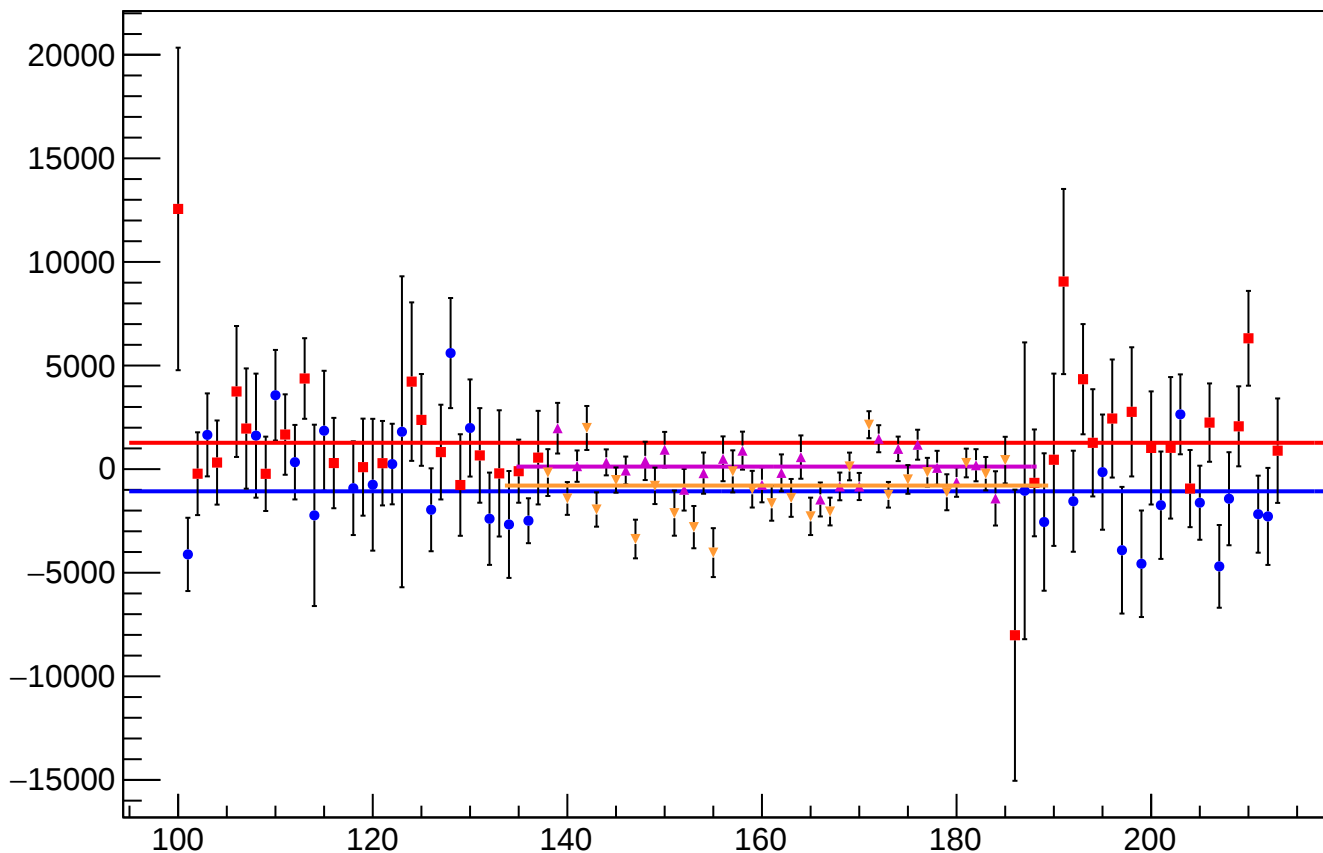
Right: 108.260 $\pm$ 0.014 χ^2 /NDF: 8006024.1/63

In: 86.713 $\pm$ 0.011 χ^2 /NDF:5447511.8/52

Out: 86.791 $\pm$ 0.011 χ^2 /NDF:6973051.1/58

All: 86.753 $\pm$ 0.008 χ^2 /NDF: 12420587.9/111

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1070.111 $\pm$ 406.842 χ^2 /NDF: 34.0/29

Left Out: -792.776 $\pm$ 162.659 χ^2 /NDF:66.6/24

Right Out: 1271.817 $\pm$ 409.642 χ^2 /NDF: 24.2/33

Left In: 122.198 $\pm$ 166.193 χ^2 /NDF:25.9/22

Left: -345.122 $\pm$ 116.247 χ^2 /NDF: 108.0/47

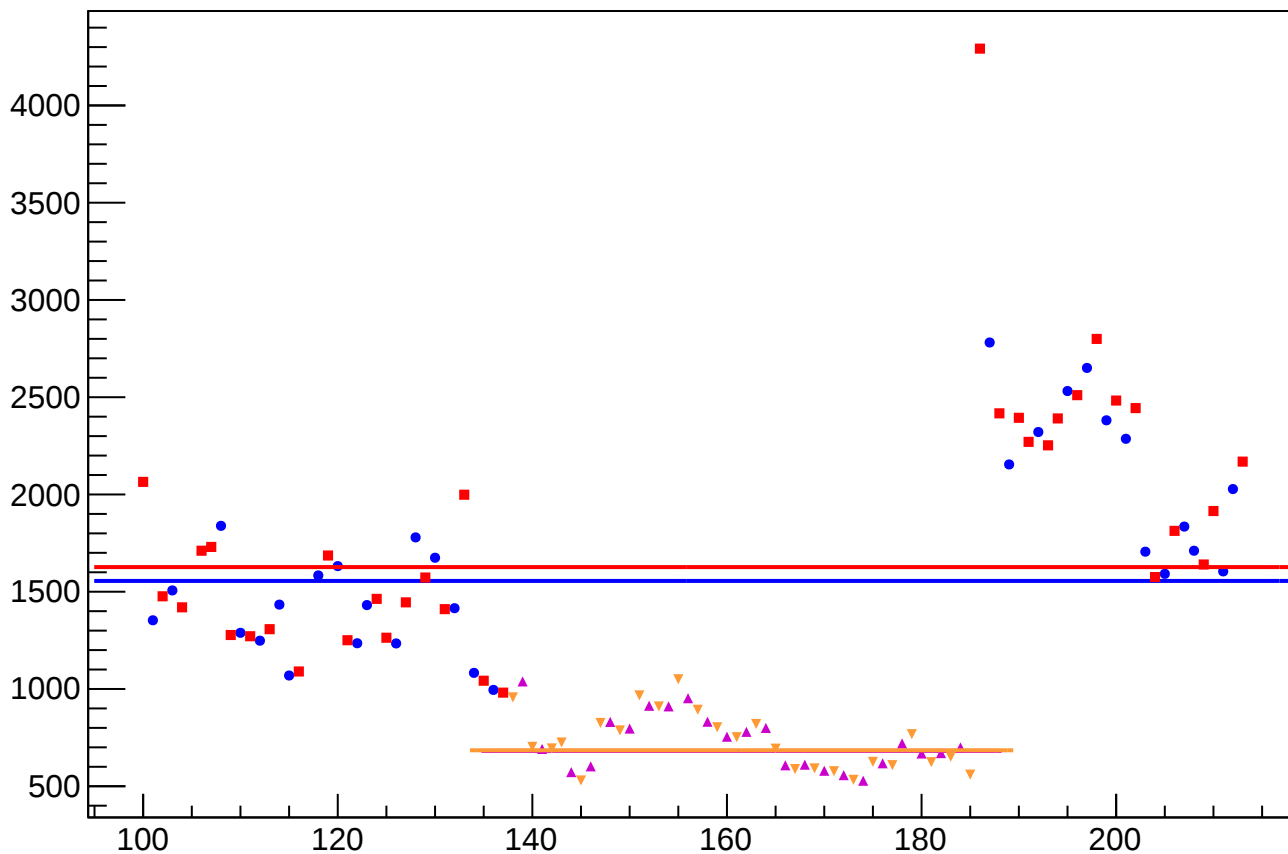
Right: 92.821 $\pm$ 288.665 χ^2 /NDF: 74.6/63

In: -48.310 $\pm$ 153.852 χ^2 /NDF:67.3/52

Out: -511.588 $\pm$ 151.177 χ^2 /NDF:112.7/58

All: -284.011 $\pm$ 107.831 χ^2 /NDF: 184.6/111

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1555.530+/-0.288 χ^2/NDF : 2261947.8/29

Left Out: 684.785+/-0.115 χ^2/NDF : 1280146.2/24

Right Out: 1626.657+/-0.290 χ^2/NDF : 2809215.3/33

Left In: 681.712+/-0.118 χ^2/NDF : 1119637.0/22

Left: 683.282+/-0.082 χ^2/NDF : 2400132.5/47

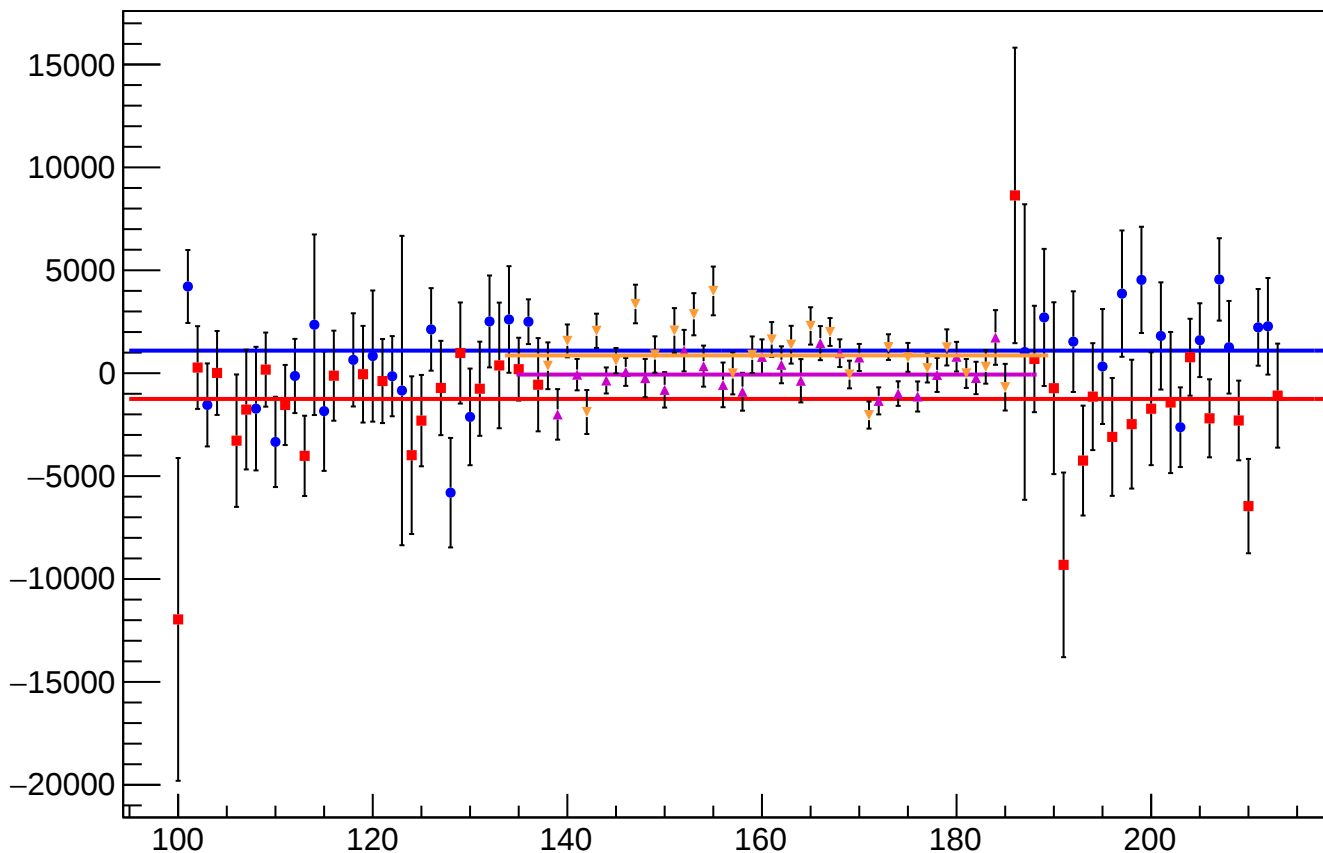
Right: 1590.849+/-0.204 χ^2/NDF : 5101518.5/63

In: 806.673+/-0.109 χ^2/NDF : 11288339.4/52

Out: 813.063+/-0.107 χ^2/NDF : 13222516.7/58

All: 809.924+/-0.076 χ^2/NDF : 24512611.5/11

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1097.043 $\pm$ 408.068 χ^2 /NDF: 33.5/29

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF:62.8/24

Right Out: -1250.899 $\pm$ 411.021 χ^2 /NDF: 24.0/33

Left In: -65.924 $\pm$ 167.485 χ^2 /NDF:26.4/22

Left: 409.953 $\pm$ 117.136 χ^2 /NDF: 105.1/47

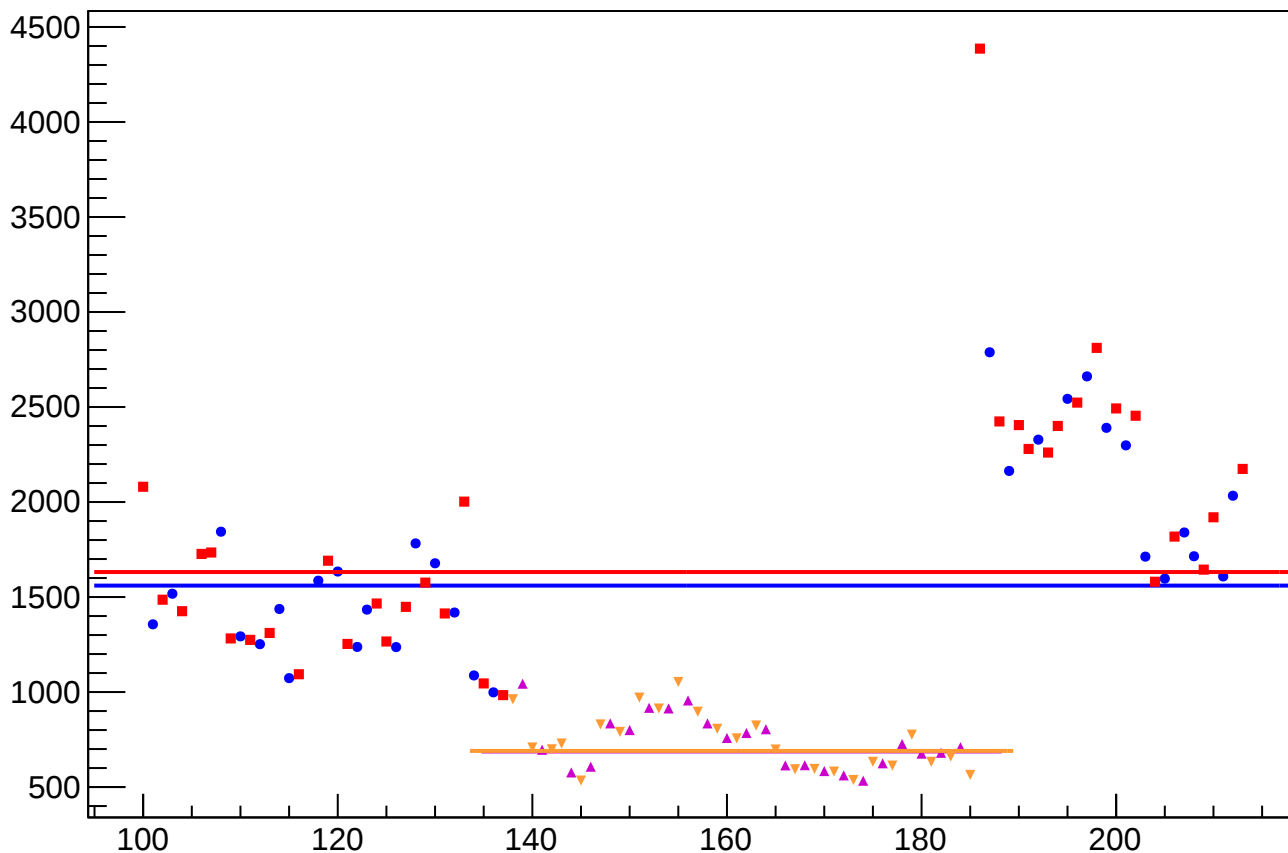
Right: -68.464 $\pm$ 289.586 χ^2 /NDF: 74.0/63

In: 101.740 $\pm$ 154.942 χ^2 /NDF:66.9/52

Out: 575.267 $\pm$ 152.230 χ^2 /NDF:109.7/58

All: 342.683 $\pm$ 108.589 χ^2 /NDF: 181.4/111

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1560.125 $\pm$ 0.289 χ^2/NDF : 2265748.2/29

Left Out: 690.166 $\pm$ 0.116 χ^2/NDF : 1258158.2/24

Right Out: 1631.574 $\pm$ 0.291 χ^2/NDF : 2821250.1/33

Left In: 687.216 $\pm$ 0.118 χ^2/NDF : 1099706.1/22

Left: 688.723 $\pm$ 0.083 χ^2/NDF : 2358181.3/47

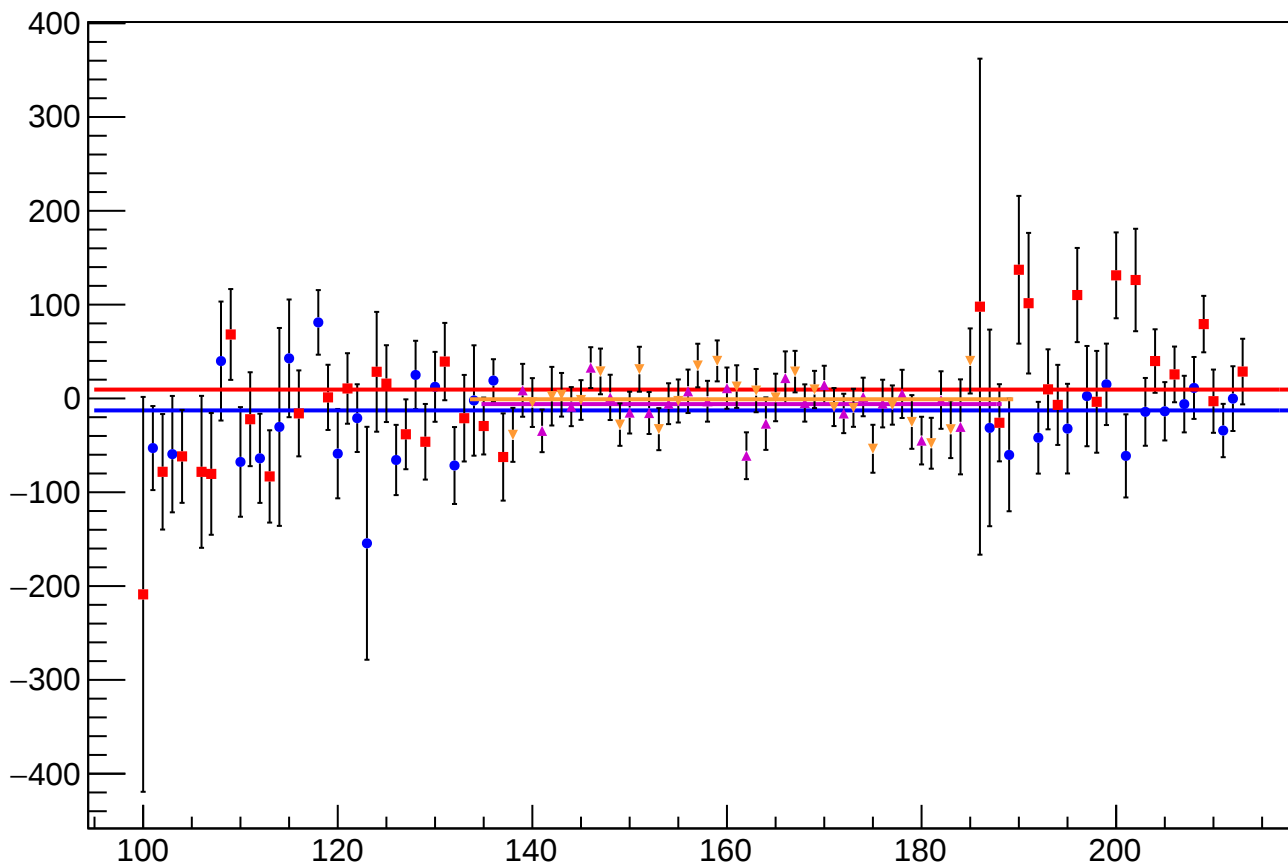
Right: 1595.592 $\pm$ 0.205 χ^2/NDF : 5117433.9/63

In: 813.063 $\pm$ 0.110 χ^2/NDF : 11197768.1/52

Out: 819.304 $\pm$ 0.108 χ^2/NDF : 13132143.6/58

All: 816.238 $\pm$ 0.077 χ^2/NDF : 24331562.9/11

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -12.765 ± 7.458 χ^2/NDF : 26.6/29

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 9.450 ± 7.554 χ^2/NDF : 50.5/33

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

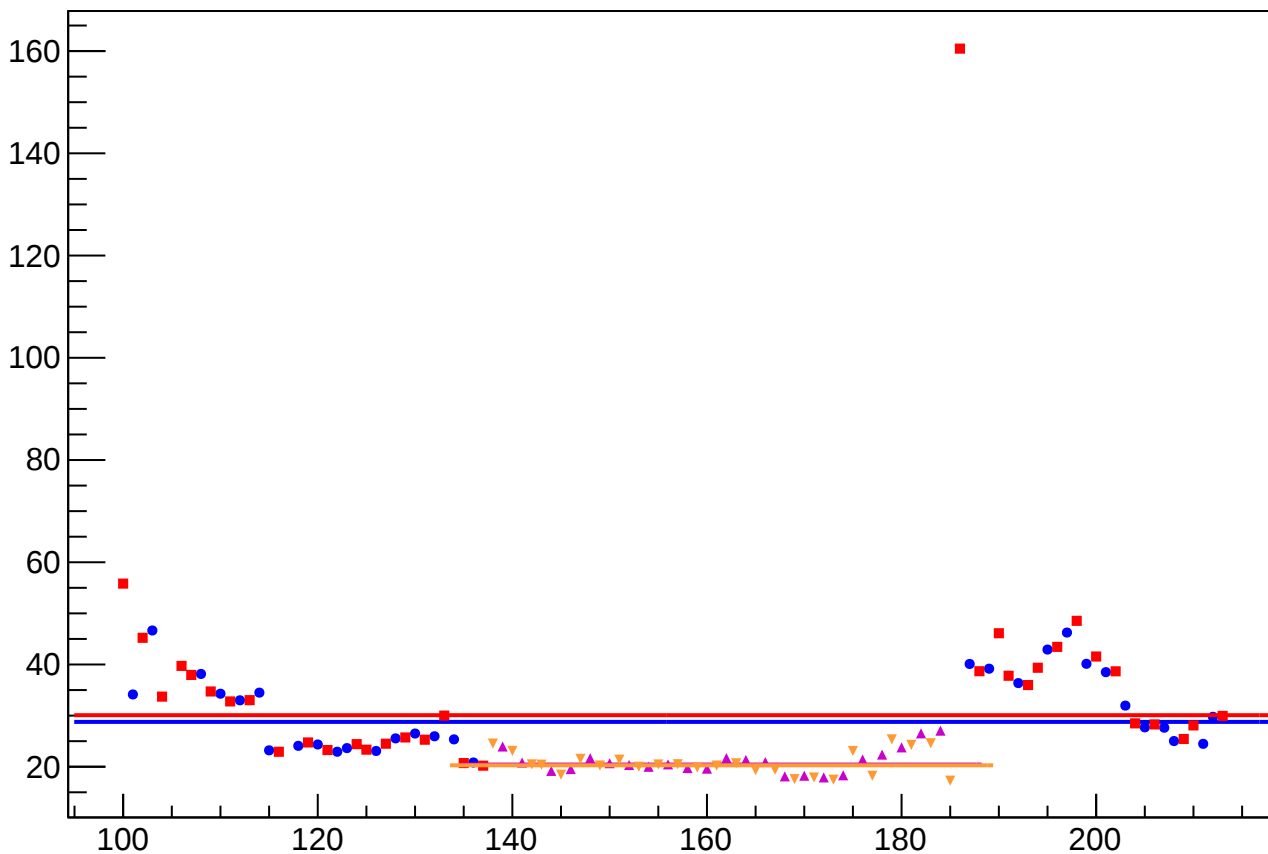
Right: -1.800 ± 5.307 χ^2/NDF : 81.4/63

In: -8.084 ± 4.110 χ^2/NDF : 44.1/52

Out: 2.070 ± 4.027 χ^2/NDF : 79.7/58

All: -2.904 ± 2.876 χ^2/NDF : 126.9/111

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.772 $\pm$ 0.005 χ^2 /NDF: 1612077.0/29

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 30.083 $\pm$ 0.005 χ^2 /NDF: 2285158.0/33

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

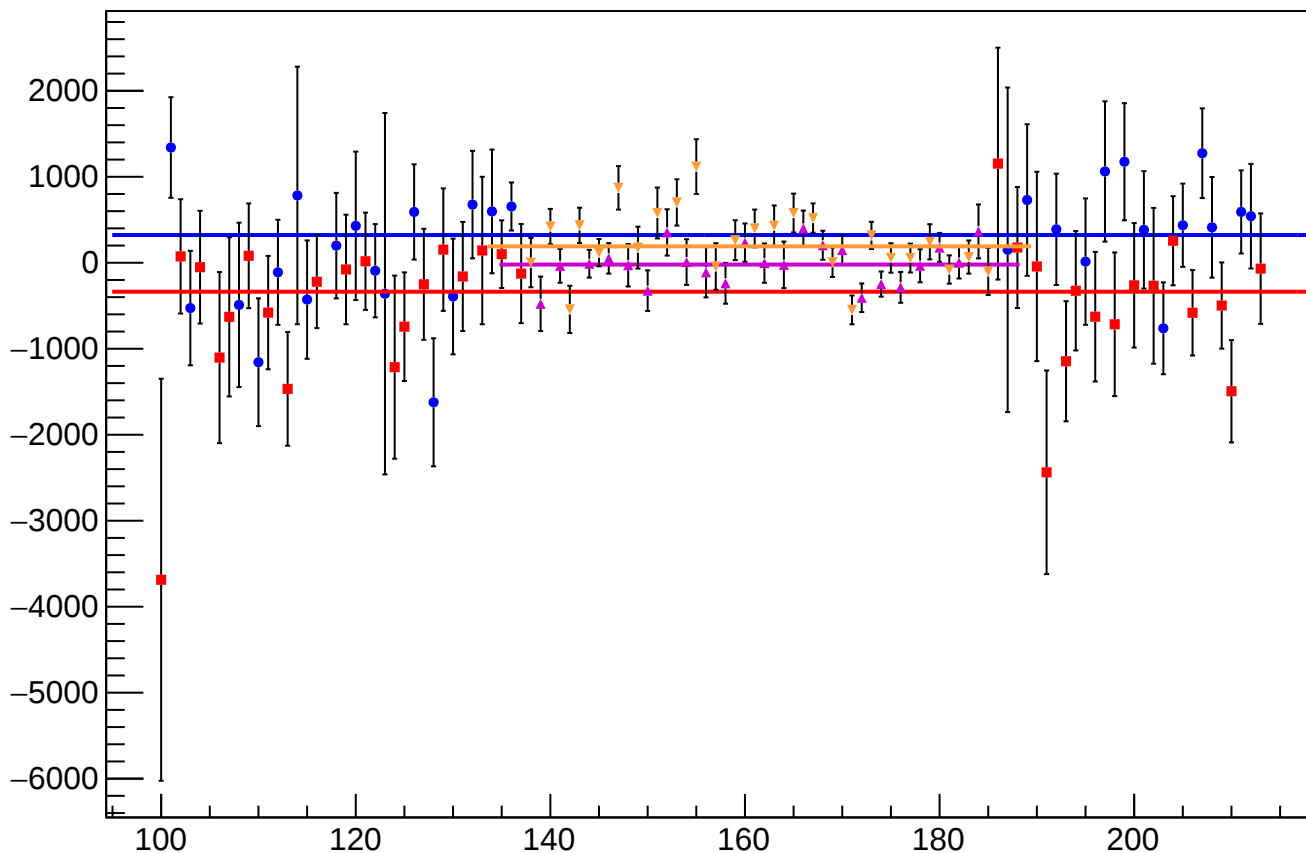
Right: 29.419 $\pm$ 0.004 χ^2 /NDF: 3927747.5/63

In: 22.959 $\pm$ 0.003 χ^2 /NDF: 3680398.2/52

Out: 23.066 $\pm$ 0.003 χ^2 /NDF: 5103336.5/58

All: 23.014 $\pm$ 0.002 χ^2 /NDF: 8784423.8/111

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 322.593 ± 112.871 $\chi^2/\text{NDF}: 32.7/29$

Left Out: 190.867 ± 41.314 $\chi^2/\text{NDF}: 67.9/24$

Right Out: -336.483 ± 114.794 $\chi^2/\text{NDF}: 23.1/33$

Left In: -20.998 ± 42.291 $\chi^2/\text{NDF}: 27.7/22$

Left: 87.410 ± 29.553 $\chi^2/\text{NDF}: 108.4/47$

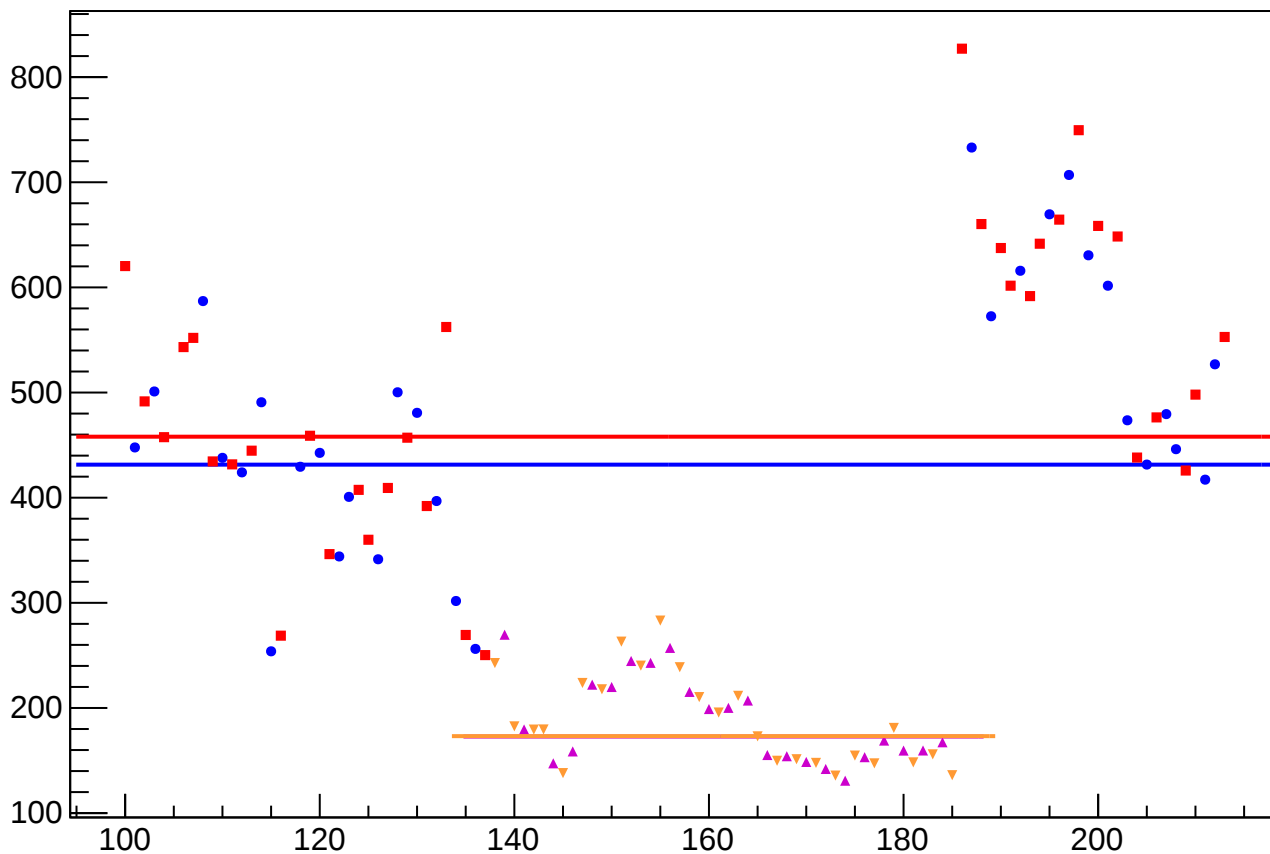
Right: -1.378 ± 80.483 $\chi^2/\text{NDF}: 72.6/63$

In: 21.299 ± 39.602 $\chi^2/\text{NDF}: 68.6/52$

Out: 130.395 ± 38.873 $\chi^2/\text{NDF}: 109.6/58$

All: 76.861 ± 27.742 $\chi^2/\text{NDF}: 182.1/111$

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 431.423+/-0.080 χ^2/NDF : 2284341.6/29

Left Out: 173.210+/-0.029 χ^2/NDF :1561250.6/24

Right Out: 458.012+/-0.081 χ^2/NDF : 2528341.3/33

Left In: 172.828+/-0.030 χ^2/NDF :1372131.7/22

Left: 173.023+/-0.021 χ^2/NDF : 2933465.9/47

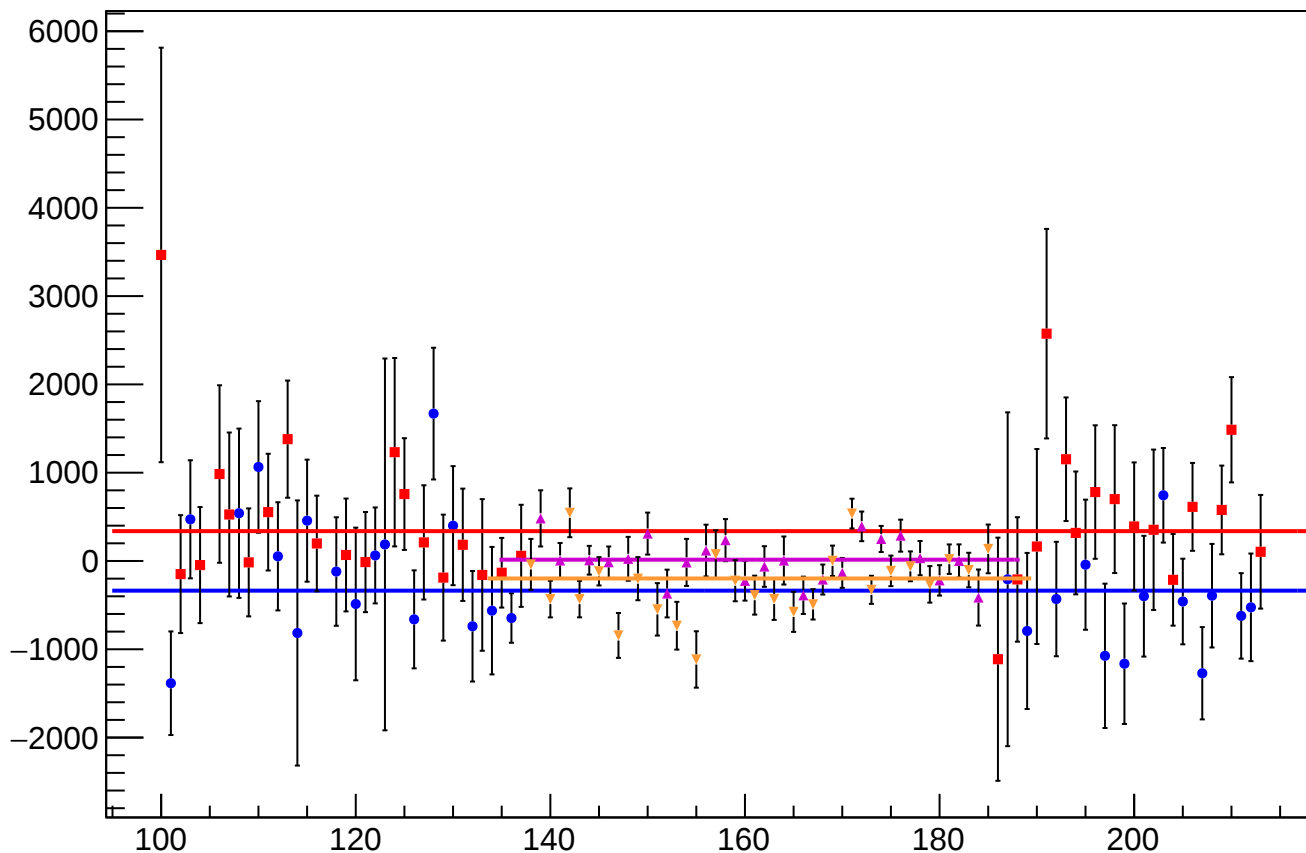
Right: 444.493+/-0.057 χ^2/NDF : 4867238.9/63

In: 204.662+/-0.028 χ^2/NDF :12862111.4/52

Out: 205.869+/-0.027 χ^2/NDF :14988461.4/58

All: 205.277+/-0.020 χ^2/NDF : 27851518.7/11

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -336.113 ± 113.159 χ^2/NDF : 32.6/29

Left Out: -197.918 ± 41.638 χ^2/NDF : 64.3/24

Right Out: 338.023 ± 115.107 χ^2/NDF : 23.1/33

Left In: 14.616 ± 42.629 χ^2/NDF : 27.7/22

Left: -94.151 ± 29.787 χ^2/NDF : 104.7/47

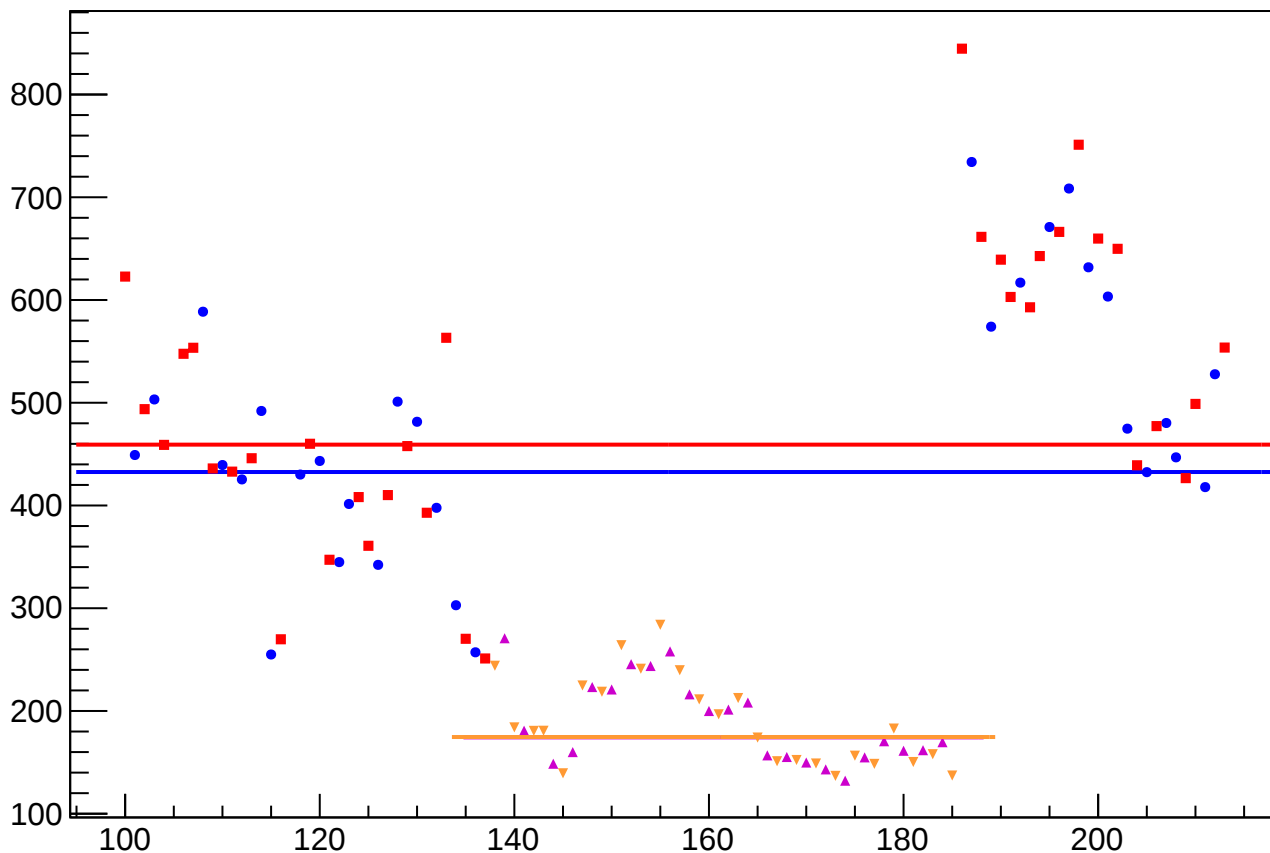
Right: -4.798 ± 80.695 χ^2/NDF : 73.2/63

In: -28.973 ± 39.893 χ^2/NDF : 68.8/52

Out: -135.904 ± 39.155 χ^2/NDF : 106.5/58

All: -83.436 ± 27.944 χ^2/NDF : 178.9/111

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 432.580 $\pm$ 0.080 χ^2 /NDF: 2277373.1/29

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF: 1531999.5/24

Right Out: 459.228 $\pm$ 0.081 χ^2 /NDF: 2530828.8/33

Left In: 174.288 $\pm$ 0.030 χ^2 /NDF: 1344779.5/22

Left: 174.472 $\pm$ 0.021 χ^2 /NDF: 2876851.9/47

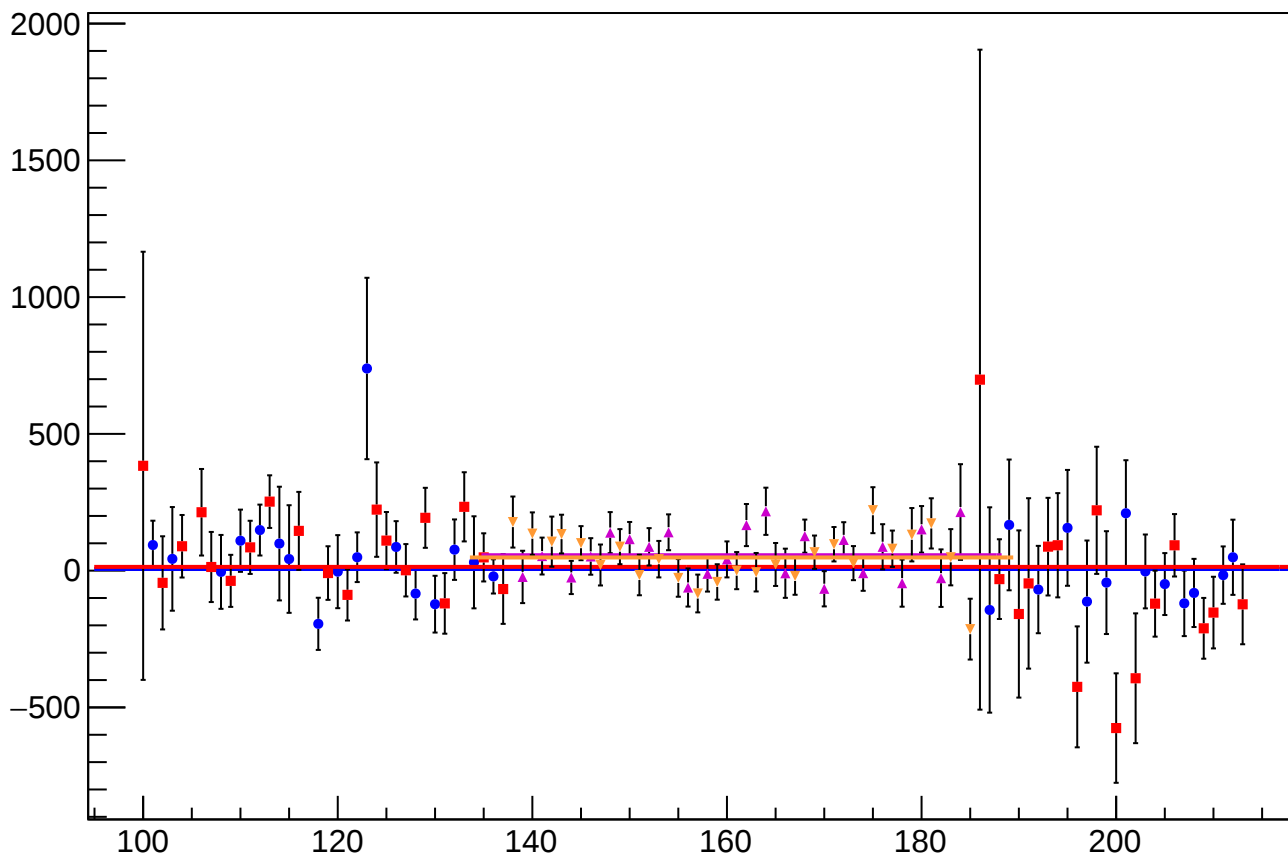
Right: 445.677 $\pm$ 0.057 χ^2 /NDF: 4862711.1/63

In: 206.389 $\pm$ 0.028 χ^2 /NDF: 12747285.6/52

Out: 207.577 $\pm$ 0.028 χ^2 /NDF: 14872949.1/58

All: 206.994 $\pm$ 0.020 χ^2 /NDF: 27621137.8/110

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 6.032 ± 22.310 χ^2/NDF : 22.5/29

Left Out: 48.233 ± 14.616 χ^2/NDF : 29.3/24

Right Out: 13.769 ± 22.369 χ^2/NDF : 47.3/33

Left In: 56.403 ± 15.182 χ^2/NDF : 27.5/22

Left: 52.163 ± 10.529 χ^2/NDF : 56.9/47

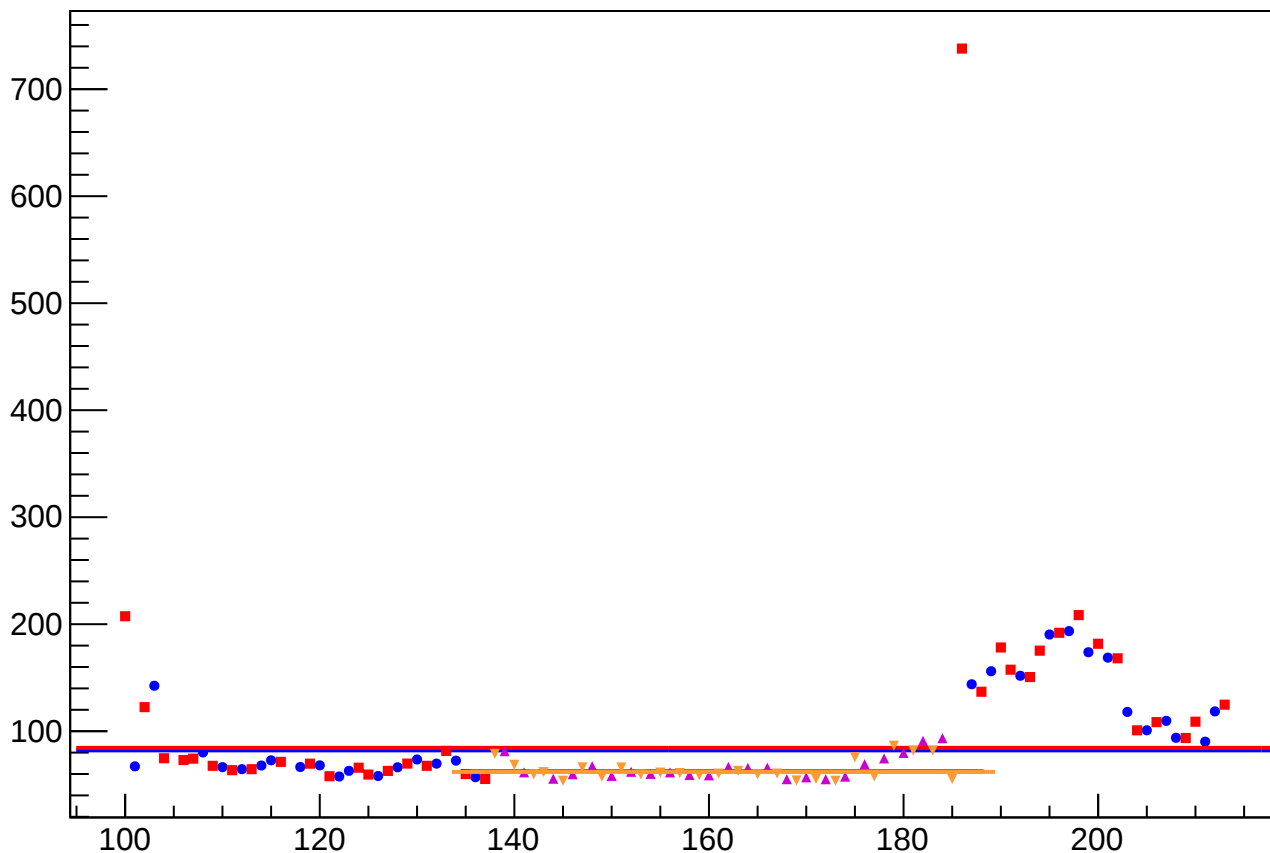
Right: 9.890 ± 15.796 χ^2/NDF : 69.8/63

In: 40.460 ± 12.551 χ^2/NDF : 53.5/52

Out: 37.922 ± 12.235 χ^2/NDF : 78.2/58

All: 39.159 ± 8.761 χ^2/NDF : 131.7/111

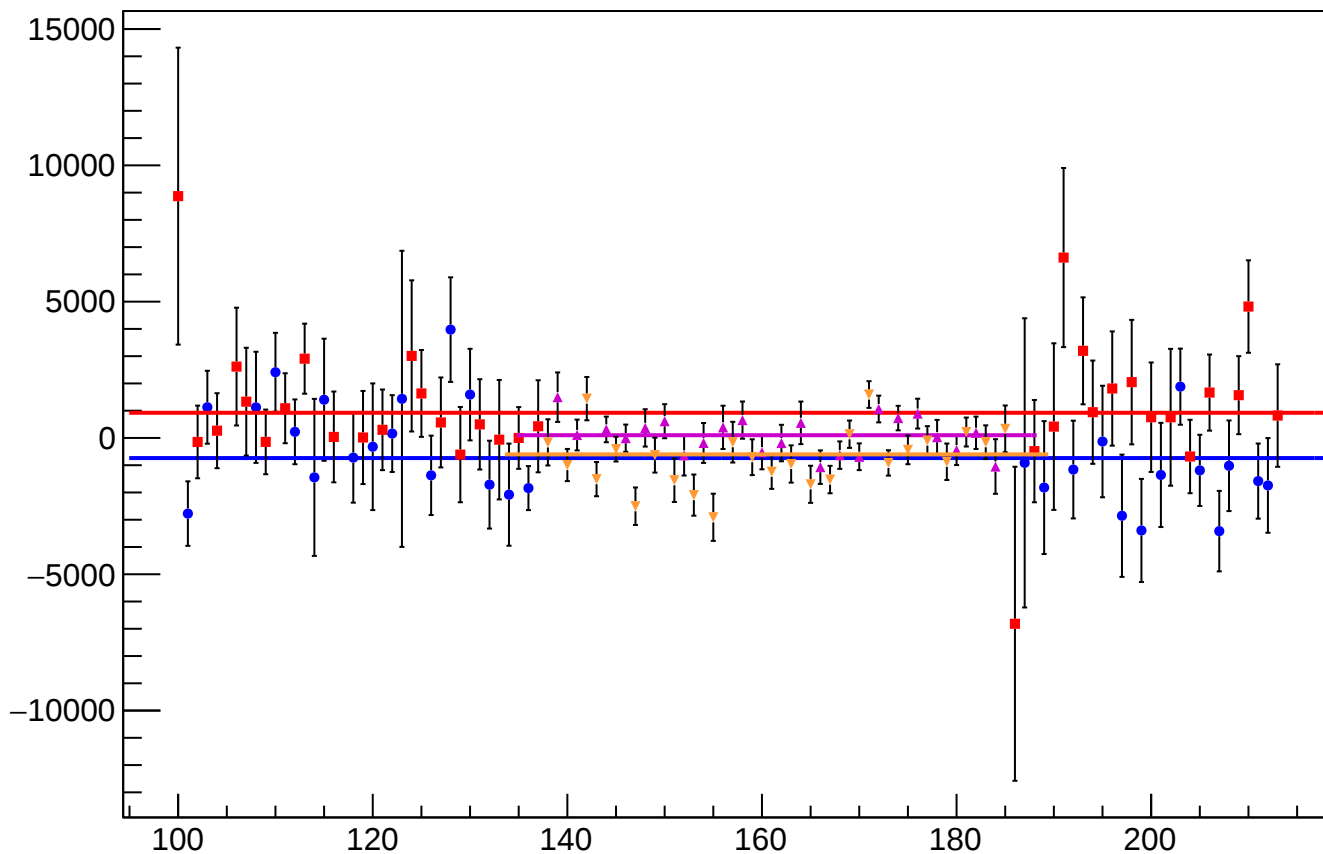
reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 82.105+/-0.016 χ^2/NDF : 4157003.8/29
 Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24
 Right Out: 84.442+/-0.016 χ^2/NDF : 5228555.8/33
 Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47
 Right: 83.270+/-0.011 χ^2/NDF : 9396506.3/63
 In: 68.779+/-0.009 χ^2/NDF : 5776618.9/52
 Out: 68.677+/-0.009 χ^2/NDF : 7251058.8/58
 All: 68.726+/-0.006 χ^2/NDF : 13027745.2/111

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -737.821+/-292.386 χ^2/NDF : 34.6/29

Left Out: -601.486+/-122.119 χ^2/NDF : 65.4/24

Right Out: 923.716+/-292.803 χ^2/NDF : 24.6/33

Left In: 100.548+/-124.725 χ^2/NDF : 25.5/22

Left: -257.880+/-87.258 χ^2/NDF : 107.0/47

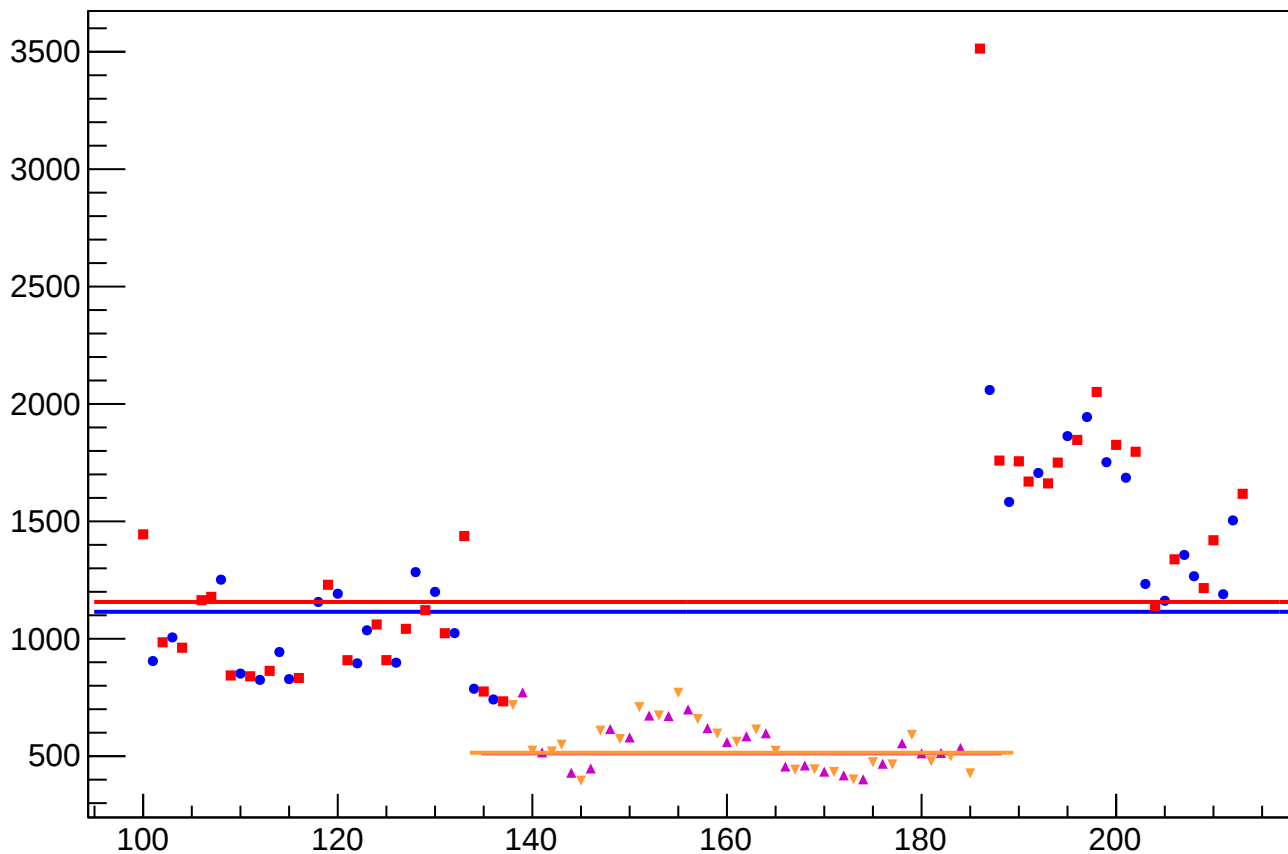
Right: 91.765+/-206.895 χ^2/NDF : 75.3/63

In: -28.521+/-114.723 χ^2/NDF : 67.0/52

Out: -375.494+/-112.709 χ^2/NDF : 113.1/58

All: -205.080+/-80.400 χ^2/NDF : 184.7/111

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1114.878+/-0.207 χ^2/NDF : 2418251.4/29

Left Out: 514.758+/-0.086 χ^2/NDF :1194945.9/24

Right Out: 1156.843+/-0.207 χ^2/NDF : 3115992.3/33

Left In: 512.199+/-0.088 χ^2/NDF :1041302.8/22

Left: 513.505+/-0.062 χ^2/NDF : 2236678.4/47

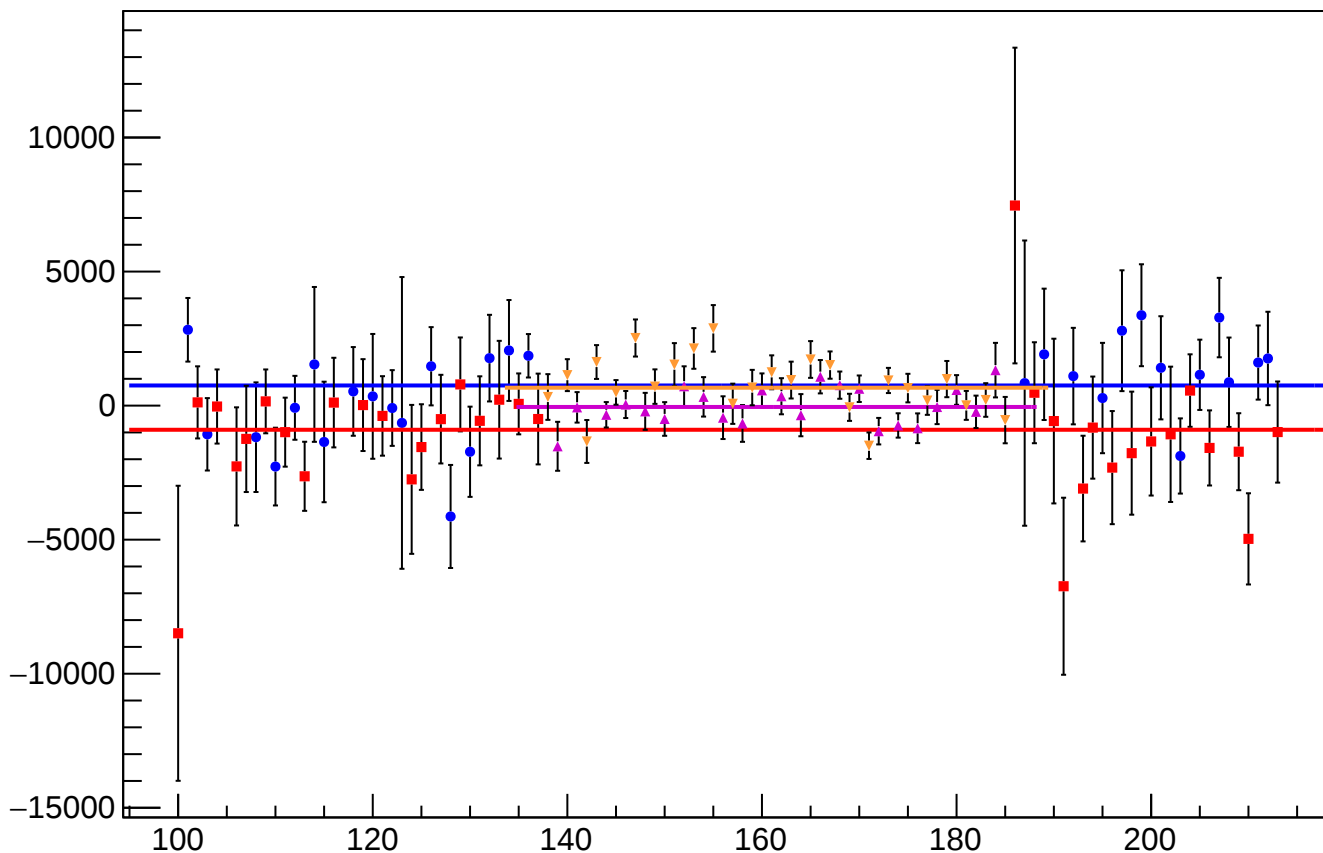
Right: 1135.830+/-0.146 χ^2/NDF : 5554814.5/63

In: 604.983+/-0.081 χ^2/NDF :10648796.5/52

Out: 609.897+/-0.080 χ^2/NDF :12503459.9/58

All: 607.483+/-0.057 χ^2/NDF : 23154123.3/11

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 751.266+/-293.467 χ^2/NDF : 34.1/29

Left Out: 667.625+/-123.146 χ^2/NDF : 61.5/24

Right Out: -900.787+/-294.005 χ^2/NDF : 24.4/33

Left In: -50.079+/-125.805 χ^2/NDF : 26.1/22

Left: 316.439+/-88.002 χ^2/NDF : 104.2/47

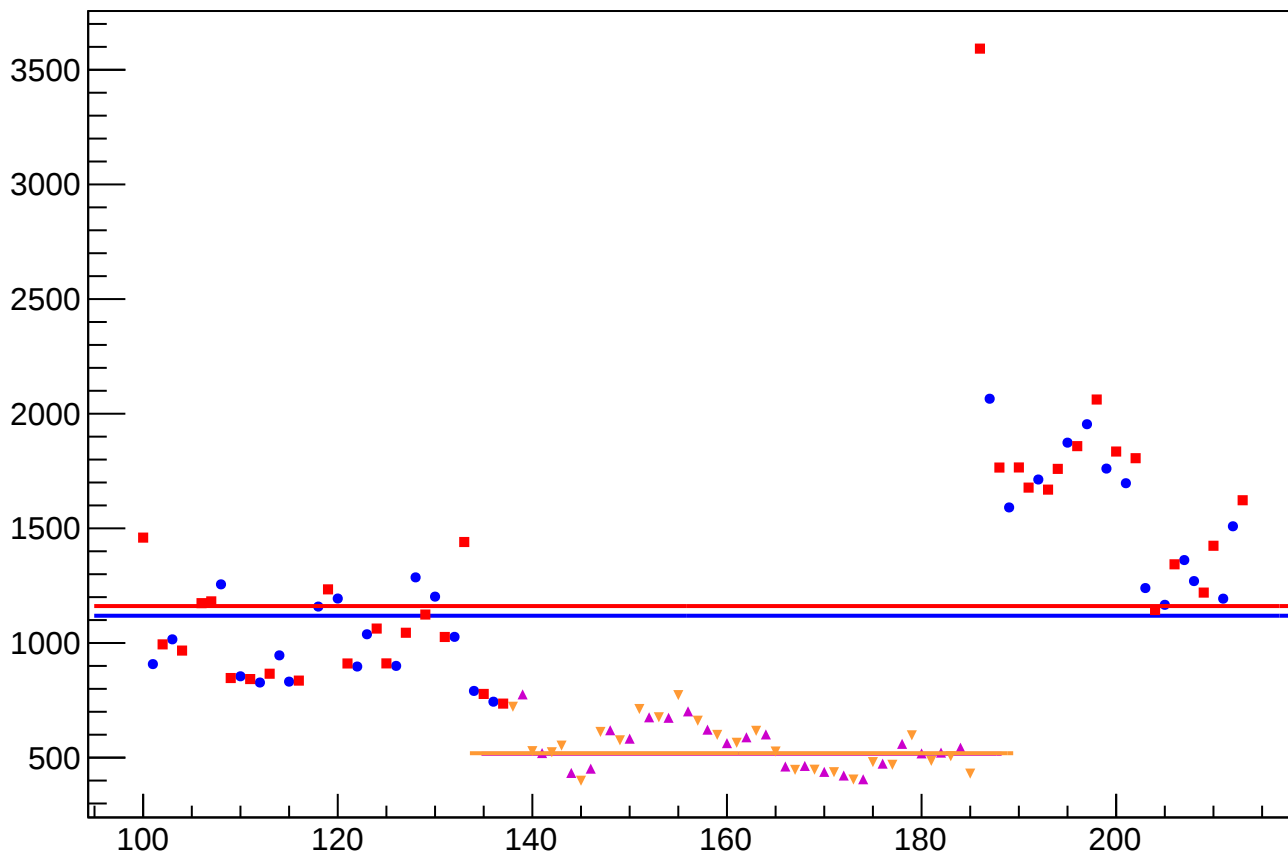
Right: -73.249+/-207.702 χ^2/NDF : 74.3/63

In: 74.324+/-115.628 χ^2/NDF : 66.4/52

Out: 433.531+/-113.584 χ^2/NDF : 110.1/58

All: 257.130+/-81.029 χ^2/NDF : 181.4/111

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1118.878 $\pm$ 0.208 χ^2 /NDF: 2424782.8/29

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF:1172411.1/24

Right Out: 1161.090 $\pm$ 0.208 χ^2 /NDF: 3130001.7/33

Left In: 516.792 $\pm$ 0.089 χ^2 /NDF:1021374.1/22

Left: 518.049 $\pm$ 0.062 χ^2 /NDF: 2194176.4/47

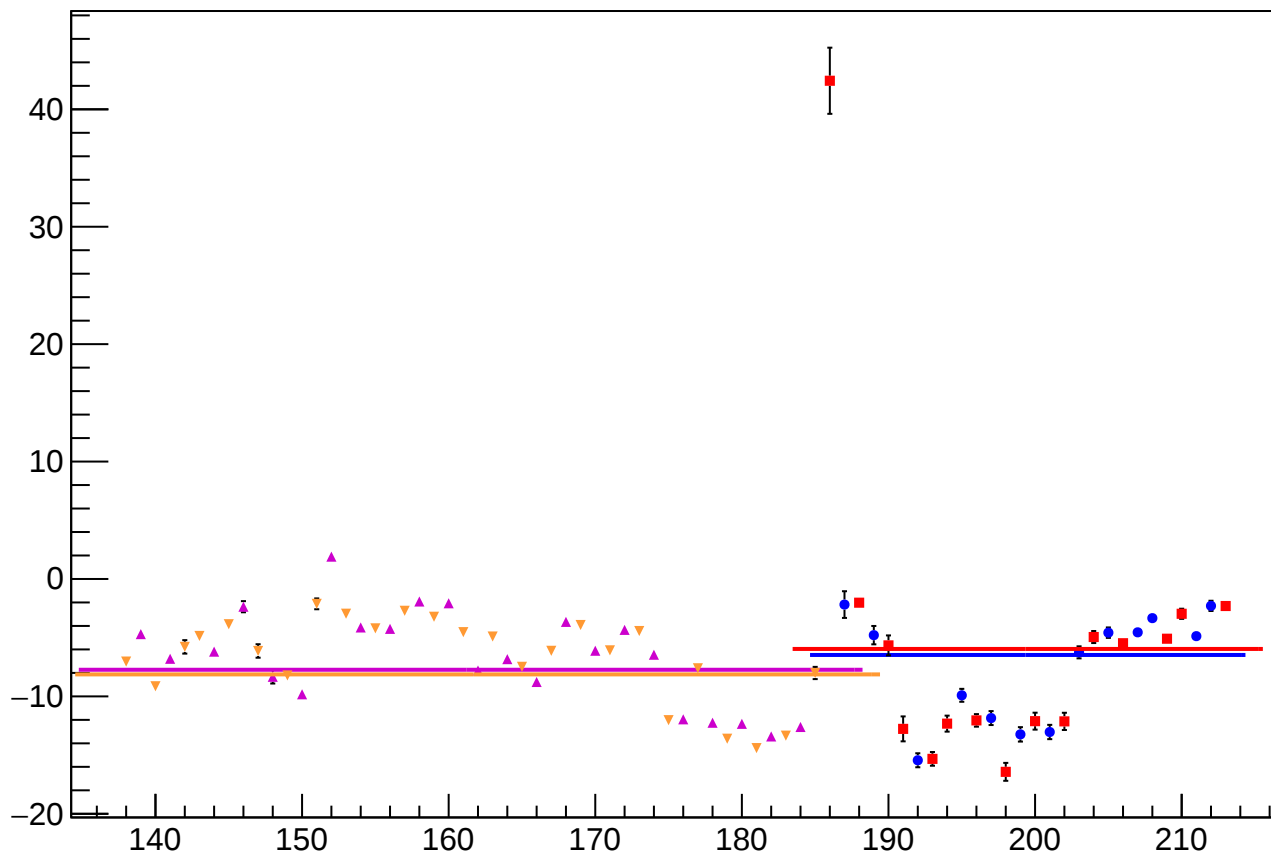
Right: 1139.946 $\pm$ 0.147 χ^2 /NDF: 5575436.3/63

In: 610.261 $\pm$ 0.082 χ^2 /NDF:10557673.5/52

Out: 615.051 $\pm$ 0.080 χ^2 /NDF:12411464.1/58

All: 612.699 $\pm$ 0.057 χ^2 /NDF: 22970884.4/11

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.472 ± 0.137 χ^2/NDF : 829.2/12

Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24

Right Out: -5.959 ± 0.127 χ^2/NDF : 1473.0/14

Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47

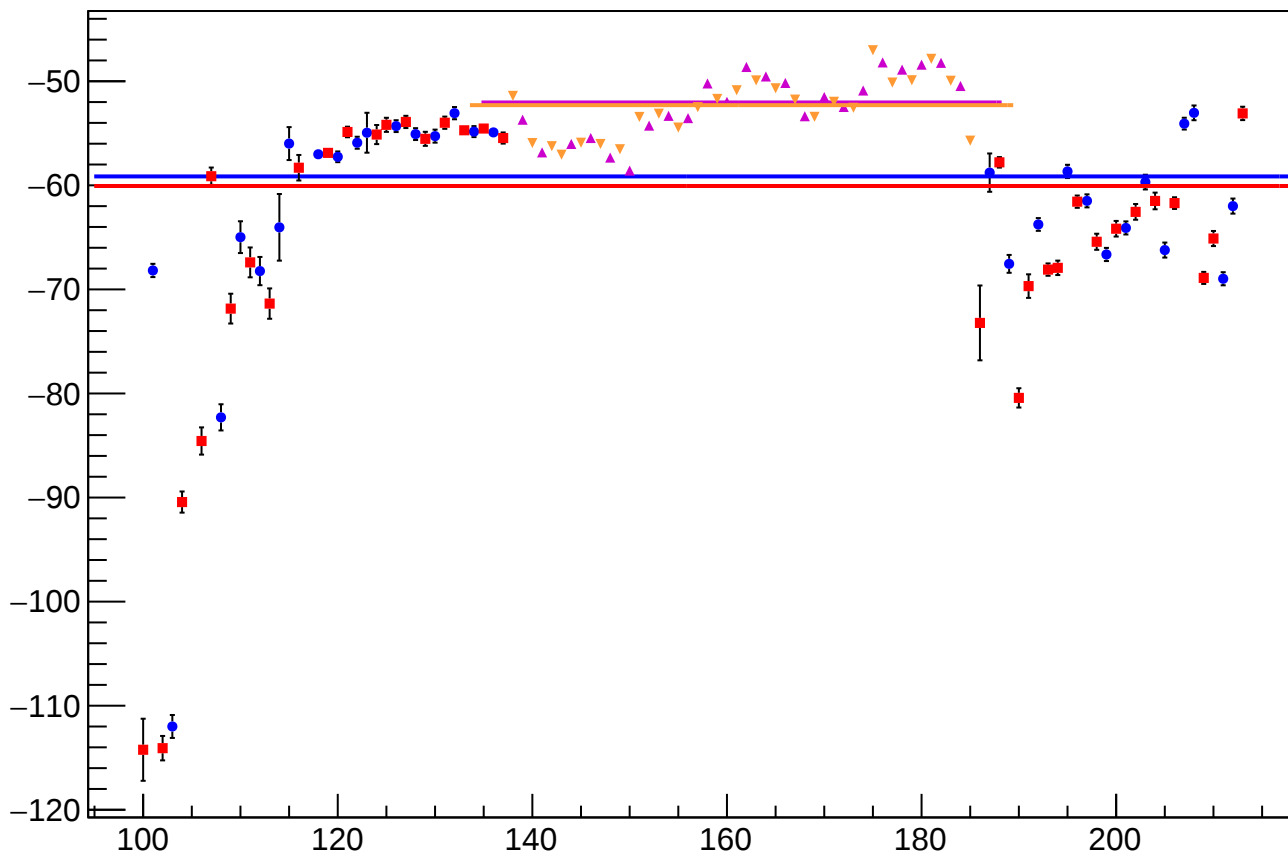
Right: -6.197 ± 0.093 χ^2/NDF : 2309.8/27

In: -7.478 ± 0.062 χ^2/NDF : 4615.9/35

Out: -7.653 ± 0.060 χ^2/NDF : 5334.9/39

All: -7.568 ± 0.043 χ^2/NDF : 9955.0/75

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -59.144 ± 0.114 $\chi^2/\text{NDF}: 4457.6/29$

Left Out: -52.297 ± 0.055 $\chi^2/\text{NDF}: 2657.5/24$

Right Out: -60.064 ± 0.112 $\chi^2/\text{NDF}: 6373.9/33$

Left In: -52.038 ± 0.057 $\chi^2/\text{NDF}: 3180.4/22$

Left: -52.172 ± 0.040 $\chi^2/\text{NDF}: 5848.6/47$

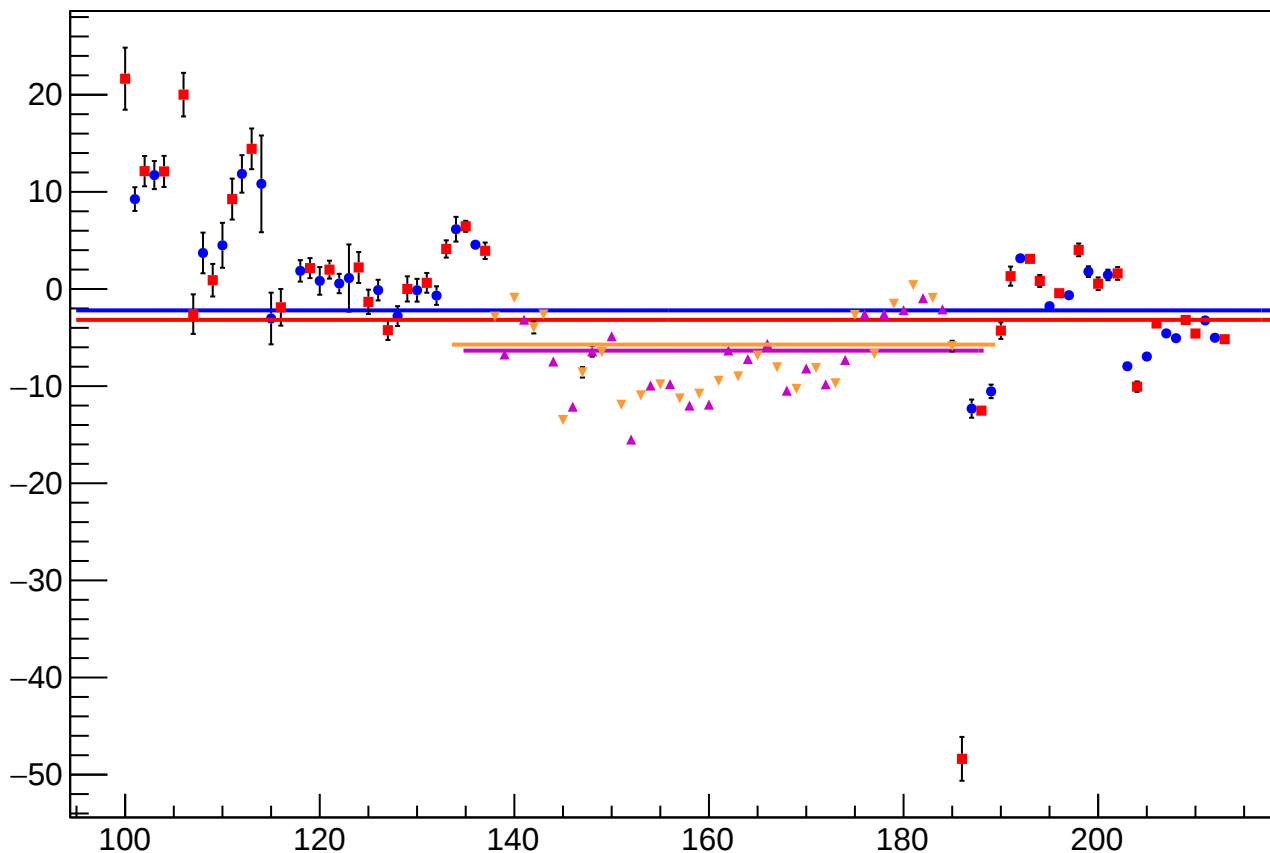
Right: -59.613 ± 0.080 $\chi^2/\text{NDF}: 10864.6/63$

In: -53.459 ± 0.051 $\chi^2/\text{NDF}: 10729.9/52$

Out: -53.809 ± 0.049 $\chi^2/\text{NDF}: 12906.6/58$

All: -53.640 ± 0.036 $\chi^2/\text{NDF}: 23660.8/111$

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.200 ± 0.116 $\chi^2/\text{NDF}: 1476.5/29$

Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$

Right Out: -3.177 ± 0.110 $\chi^2/\text{NDF}: 3239.8/33$

Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$

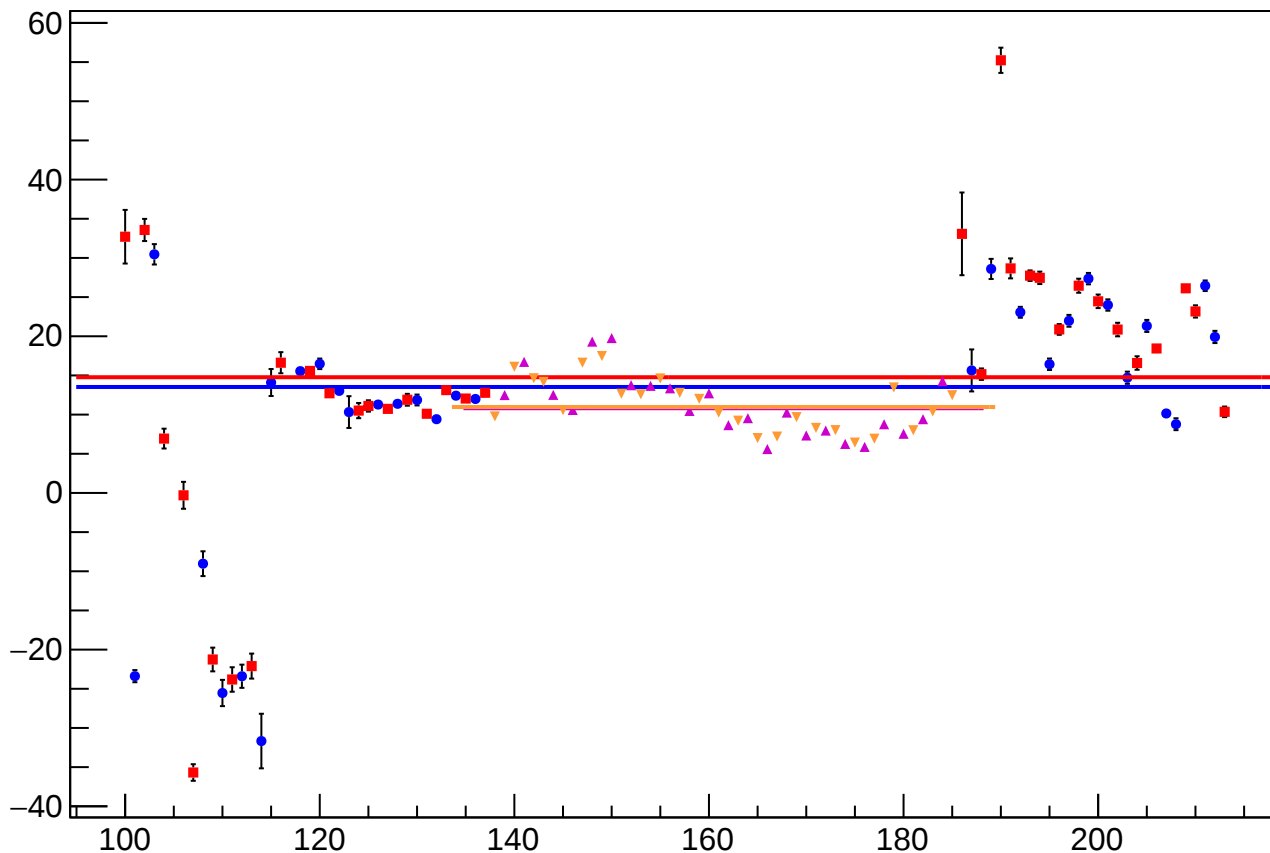
Right: -2.717 ± 0.080 $\chi^2/\text{NDF}: 4753.5/63$

In: -5.274 ± 0.059 $\chi^2/\text{NDF}: 5801.7/52$

Out: -5.022 ± 0.058 $\chi^2/\text{NDF}: 7612.7/58$

All: -5.145 ± 0.041 $\chi^2/\text{NDF}: 13423.7/111$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.527 ± 0.127 $\chi^2/\text{NDF}: 5767.0/29$

Left Out: 10.967 ± 0.061 $\chi^2/\text{NDF}: 2637.7/24$

Right Out: 14.772 ± 0.127 $\chi^2/\text{NDF}: 6913.3/33$

Left In: 10.813 ± 0.063 $\chi^2/\text{NDF}: 3546.8/22$

Left: 10.892 ± 0.044 $\chi^2/\text{NDF}: 6187.5/47$

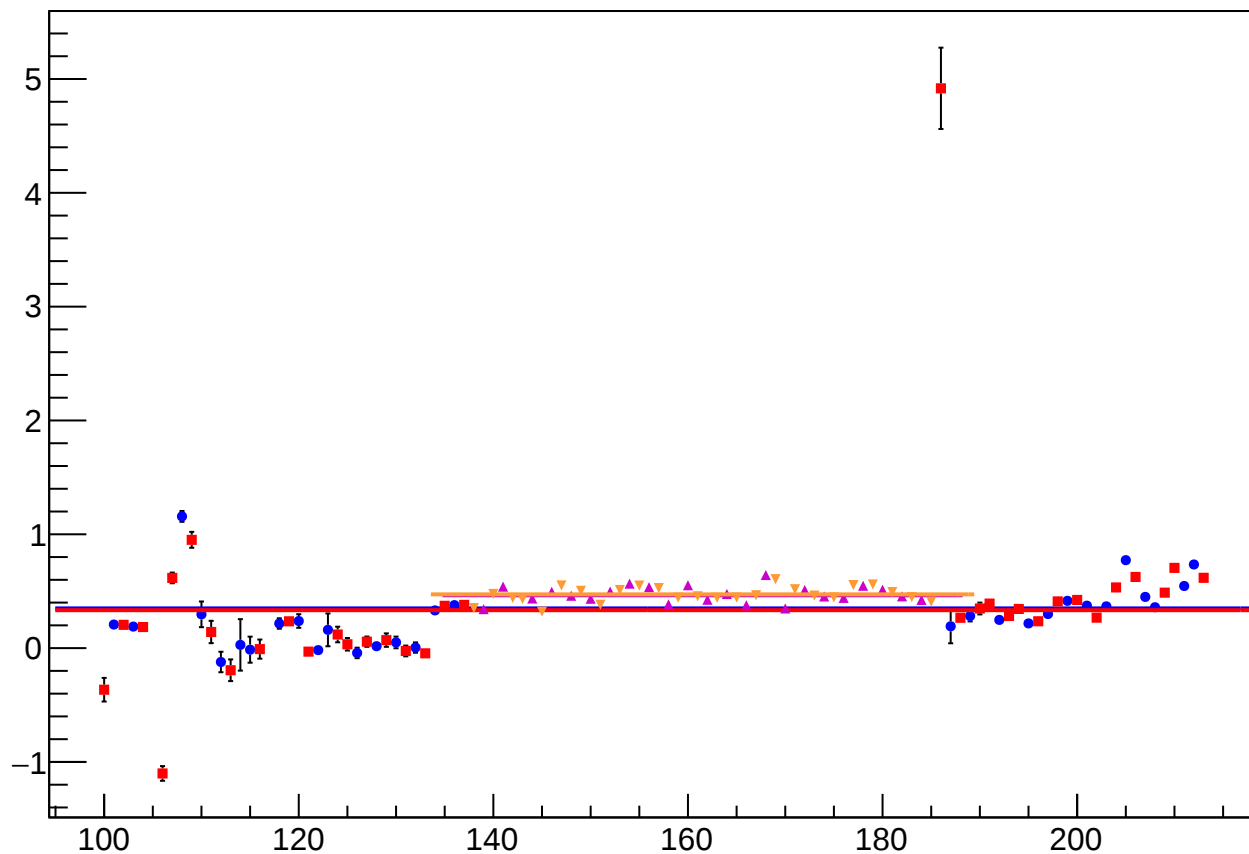
Right: 14.152 ± 0.090 $\chi^2/\text{NDF}: 12728.3/63$

In: 11.350 ± 0.057 $\chi^2/\text{NDF}: 9679.1/52$

Out: 11.690 ± 0.055 $\chi^2/\text{NDF}: 10281.1/58$

All: 11.524 ± 0.040 $\chi^2/\text{NDF}: 19978.7/111$

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.349+/-0.006 χ^2/NDF : 1080.1/29

Left Out: 0.472+/-0.003 χ^2/NDF : 519.0/24

Right Out: 0.333+/-0.006 χ^2/NDF : 1723.0/33

Left In: 0.464+/-0.003 χ^2/NDF : 733.1/22

Left: 0.468+/-0.002 χ^2/NDF : 1256.2/47

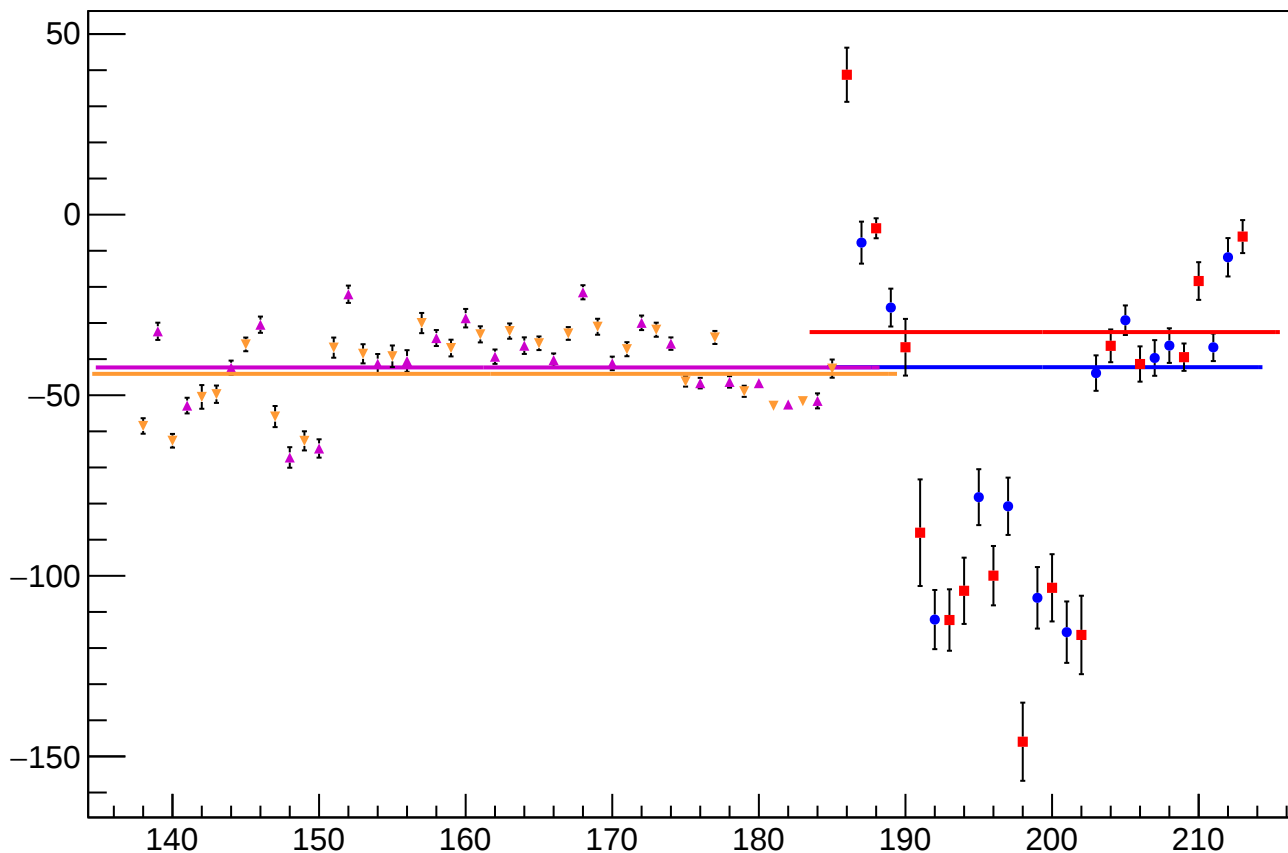
Right: 0.341+/-0.004 χ^2/NDF : 2807.1/63

In: 0.441+/-0.002 χ^2/NDF : 2161.0/52

Out: 0.445+/-0.002 χ^2/NDF : 2743.2/58

All: 0.443+/-0.002 χ^2/NDF : 4905.4/111

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -42.232 ± 1.524 χ^2/NDF : 340.6/12

Left Out: -44.077 ± 0.389 χ^2/NDF : 632.6/24

Right Out: -32.513 ± 1.438 χ^2/NDF : 704.4/14

Left In: -42.304 ± 0.399 χ^2/NDF : 640.6/22

Left: -43.214 ± 0.278 χ^2/NDF : 1283.3/47

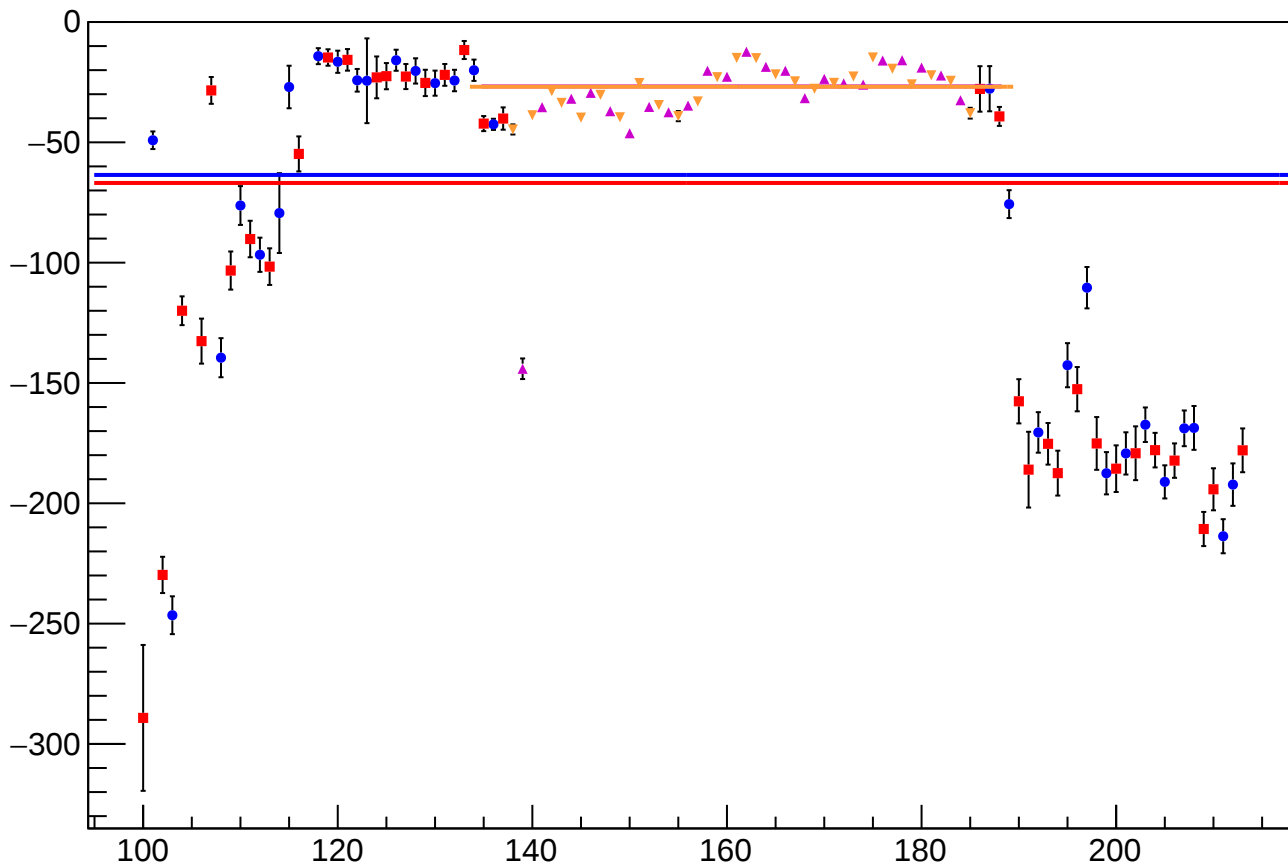
Right: -37.093 ± 1.046 χ^2/NDF : 1066.5/27

In: -42.299 ± 0.386 χ^2/NDF : 981.2/35

Out: -43.291 ± 0.375 χ^2/NDF : 1397.2/39

All: -42.809 ± 0.269 χ^2/NDF : 2381.8/75

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -63.547 ± 1.017 $\chi^2/\text{NDF}: 3790.6/29$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -66.884 ± 1.043 $\chi^2/\text{NDF}: 3998.5/33$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

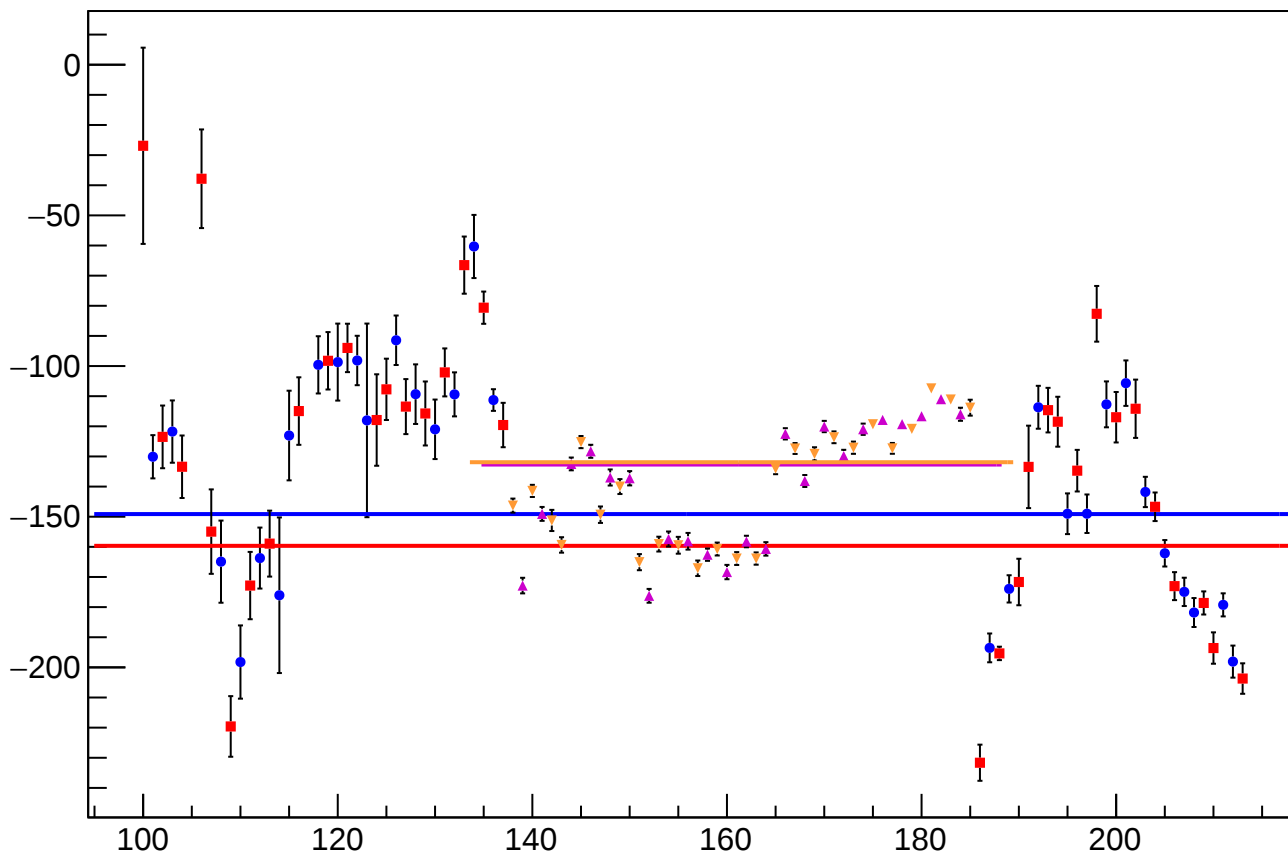
Right: -65.174 ± 0.728 $\chi^2/\text{NDF}: 7794.3/63$

In: -30.206 ± 0.311 $\chi^2/\text{NDF}: 6370.4/52$

Out: -30.271 ± 0.303 $\chi^2/\text{NDF}: 5976.1/58$

All: -30.239 ± 0.217 $\chi^2/\text{NDF}: 12346.5/111$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -149.125 $\pm$ 1.189 χ^2/NDF : 837.4/29

Left Out: -131.912 $\pm$ 0.391 χ^2/NDF : 2439.3/24

Right Out: -159.664 $\pm$ 1.132 χ^2/NDF : 1482.3/33

Left In: -132.690 $\pm$ 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 $\pm$ 0.280 χ^2/NDF : 4921.5/47

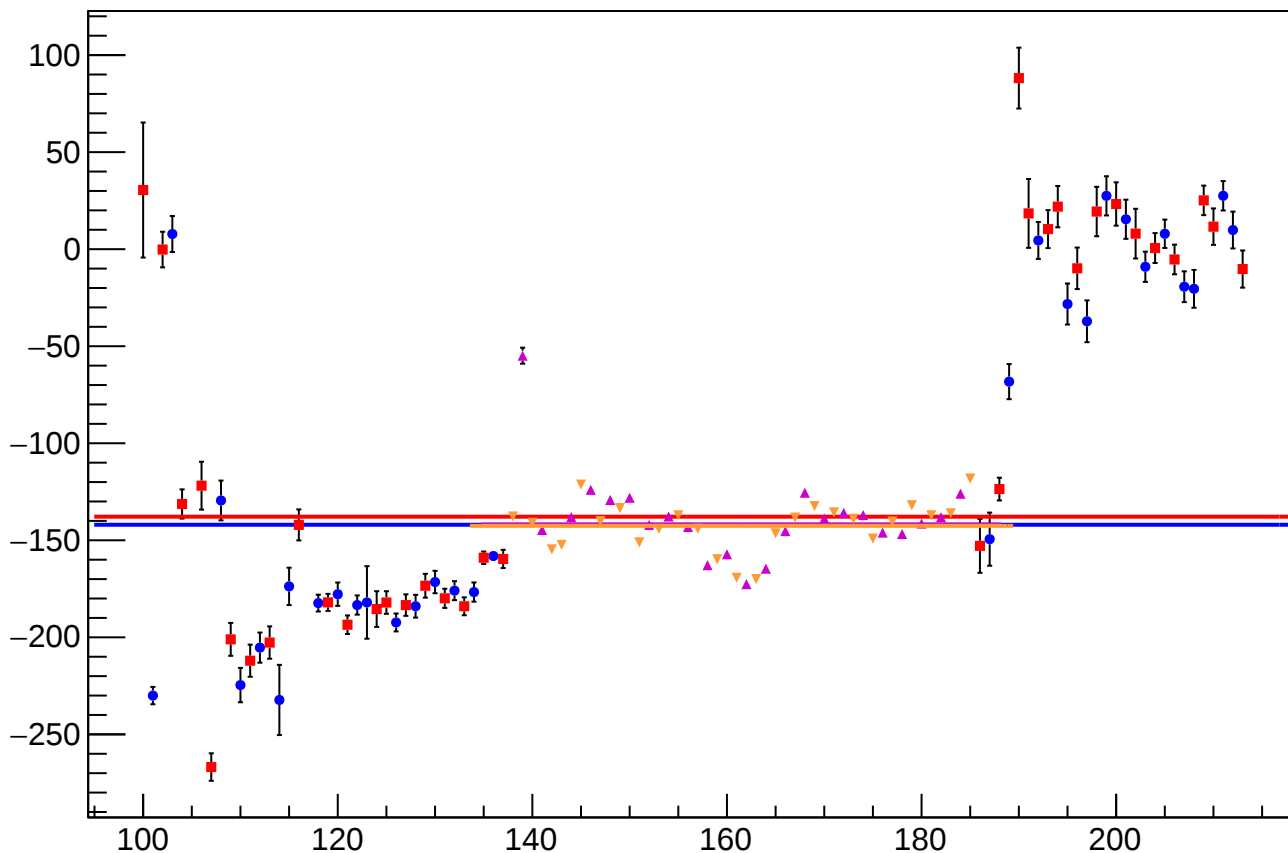
Right: -154.653 $\pm$ 0.820 χ^2/NDF : 2361.0/63

In: -134.357 $\pm$ 0.379 χ^2/NDF : 3489.4/52

Out: -134.877 $\pm$ 0.370 χ^2/NDF : 4458.7/58

All: -134.623 $\pm$ 0.265 χ^2/NDF : 7949.0/111

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -141.993 ± 1.141 χ^2/NDF : 4279.7/29

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -137.841 ± 1.191 χ^2/NDF : 4332.0/33

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

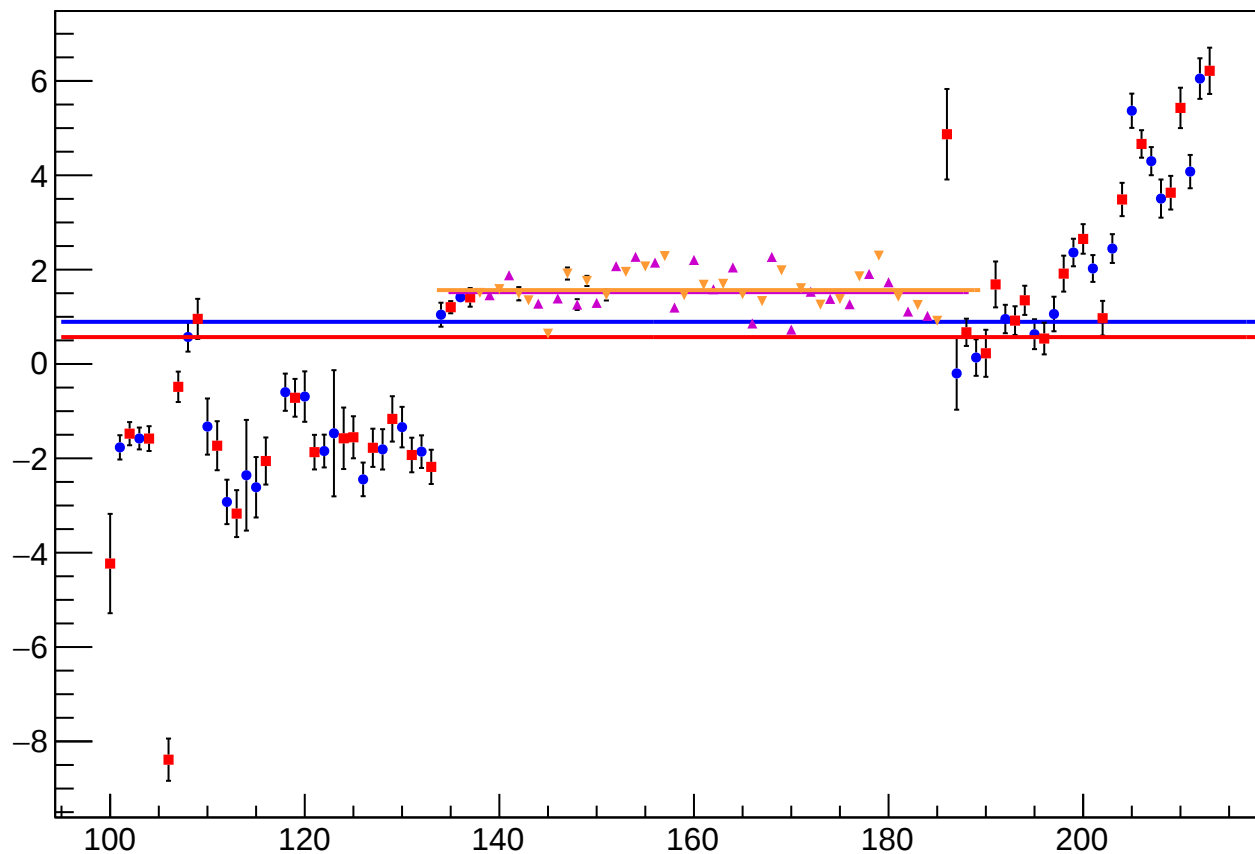
Right: -140.005 ± 0.824 χ^2/NDF : 8618.0/63

In: -141.869 ± 0.347 χ^2/NDF : 5823.9/52

Out: -142.180 ± 0.339 χ^2/NDF : 5494.2/58

All: -142.028 ± 0.242 χ^2/NDF : 11318.5/111

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.894 ± 0.055 χ^2/NDF : 1297.2/29

Left Out: 1.566 ± 0.016 χ^2/NDF : 542.8/24

Right Out: 0.570 ± 0.057 χ^2/NDF : 1646.1/33

Left In: 1.523 ± 0.017 χ^2/NDF : 738.5/22

Left: 1.545 ± 0.012 χ^2/NDF : 1284.8/47

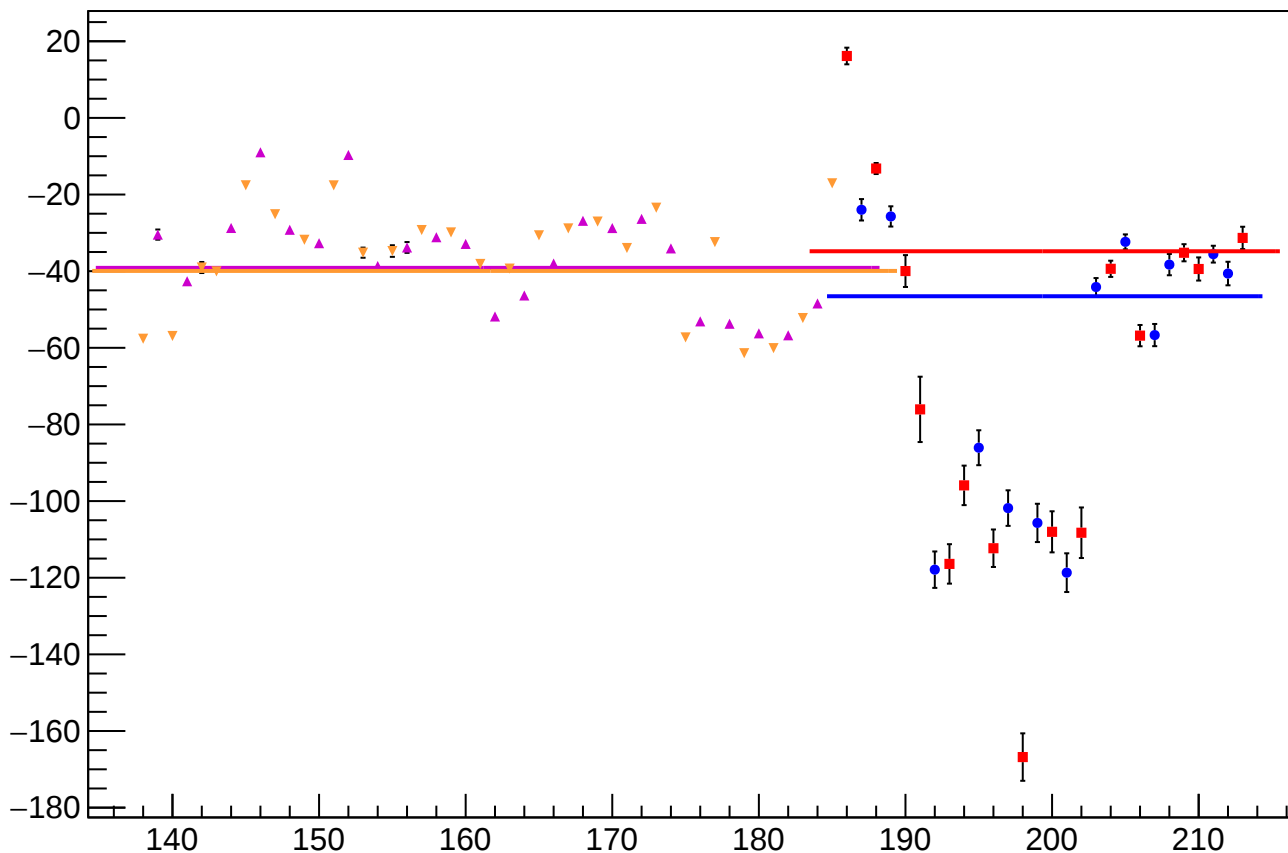
Right: 0.738 ± 0.040 χ^2/NDF : 2960.0/63

In: 1.471 ± 0.016 χ^2/NDF : 2156.1/52

Out: 1.492 ± 0.016 χ^2/NDF : 2472.8/58

All: 1.481 ± 0.011 χ^2/NDF : 4629.7/111

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -46.543 ± 0.817 $\chi^2/\text{NDF}: 1017.8/12$

Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$

Right Out: -34.803 ± 0.756 $\chi^2/\text{NDF}: 2279.4/14$

Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

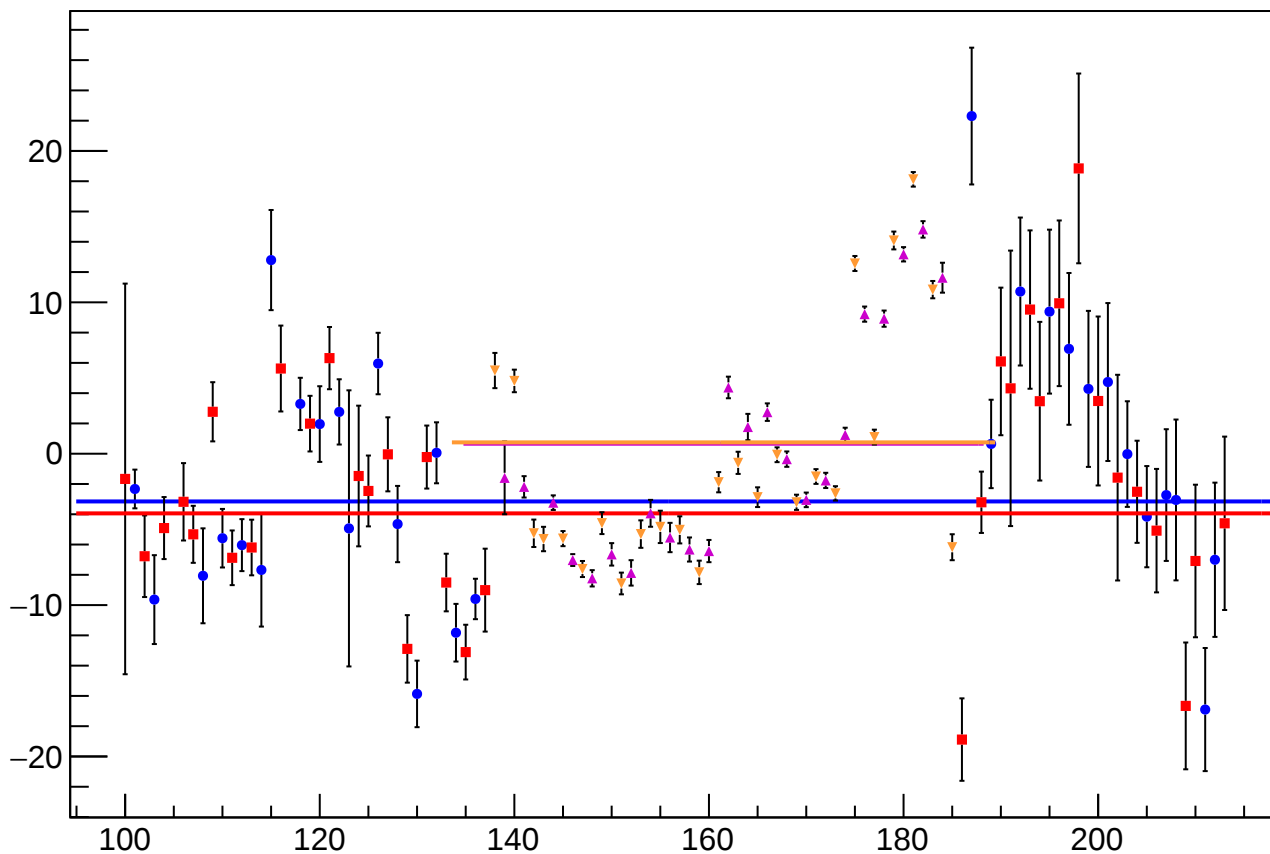
Right: -40.222 ± 0.555 $\chi^2/\text{NDF}: 3408.3/27$

In: -39.393 ± 0.152 $\chi^2/\text{NDF}: 9631.6/35$

Out: -39.733 ± 0.150 $\chi^2/\text{NDF}: 12130.1/39$

All: -39.565 ± 0.107 $\chi^2/\text{NDF}: 21764.2/75$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.153 ± 0.460 $\chi^2/\text{NDF}: 231.2/29$

Left Out: 0.749 ± 0.124 $\chi^2/\text{NDF}: 3970.9/24$

Right Out: -3.941 ± 0.458 $\chi^2/\text{NDF}: 197.4/33$

Left In: 0.660 ± 0.124 $\chi^2/\text{NDF}: 3337.8/22$

Left: 0.705 ± 0.088 $\chi^2/\text{NDF}: 7308.9/47$

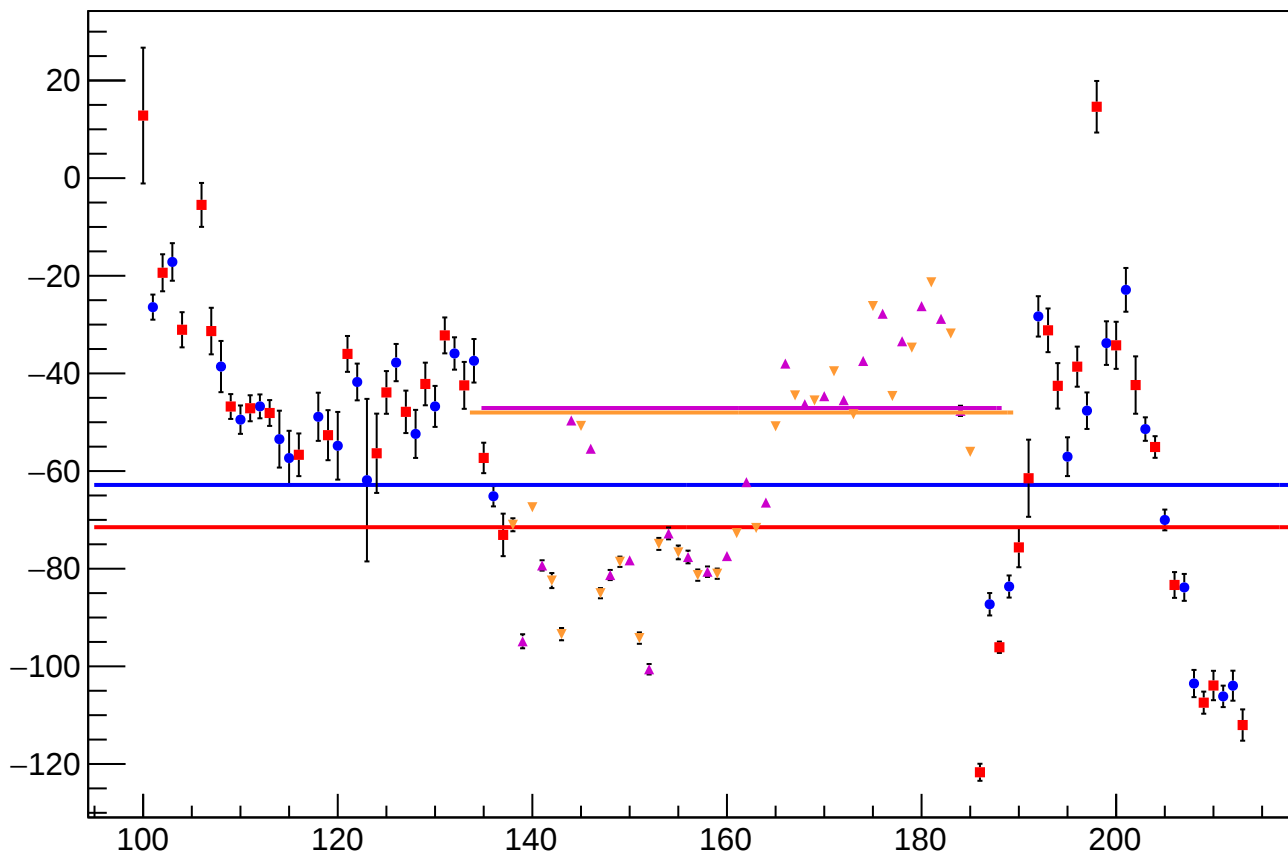
Right: -3.549 ± 0.324 $\chi^2/\text{NDF}: 430.1/63$

In: 0.400 ± 0.120 $\chi^2/\text{NDF}: 3633.1/52$

Out: 0.427 ± 0.120 $\chi^2/\text{NDF}: 4266.1/58$

All: 0.414 ± 0.085 $\chi^2/\text{NDF}: 7899.2/111$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.843 ± 0.585 χ^2/NDF : 1914.1/29

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -71.498 ± 0.538 χ^2/NDF : 3719.0/33

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

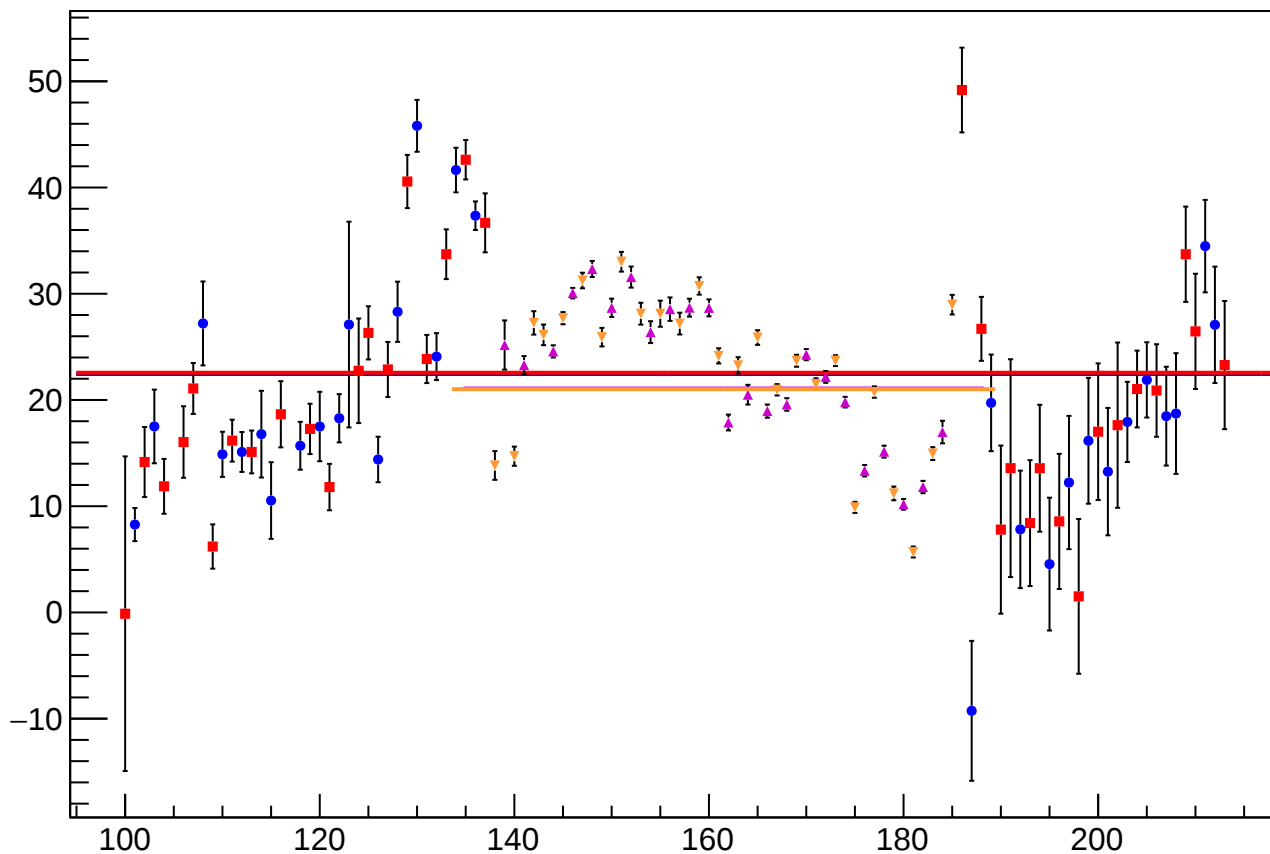
Right: -67.532 ± 0.396 χ^2/NDF : 5751.7/63

In: -48.123 ± 0.150 χ^2/NDF : 18107.1/52

Out: -49.801 ± 0.149 χ^2/NDF : 22429.9/58

All: -48.970 ± 0.106 χ^2/NDF : 40600.1/111

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.445 $\pm$ 0.519 χ^2 /NDF: 514.5/29

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF: 2799.3/24

Right Out: 22.565 $\pm$ 0.526 χ^2 /NDF: 446.5/33

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

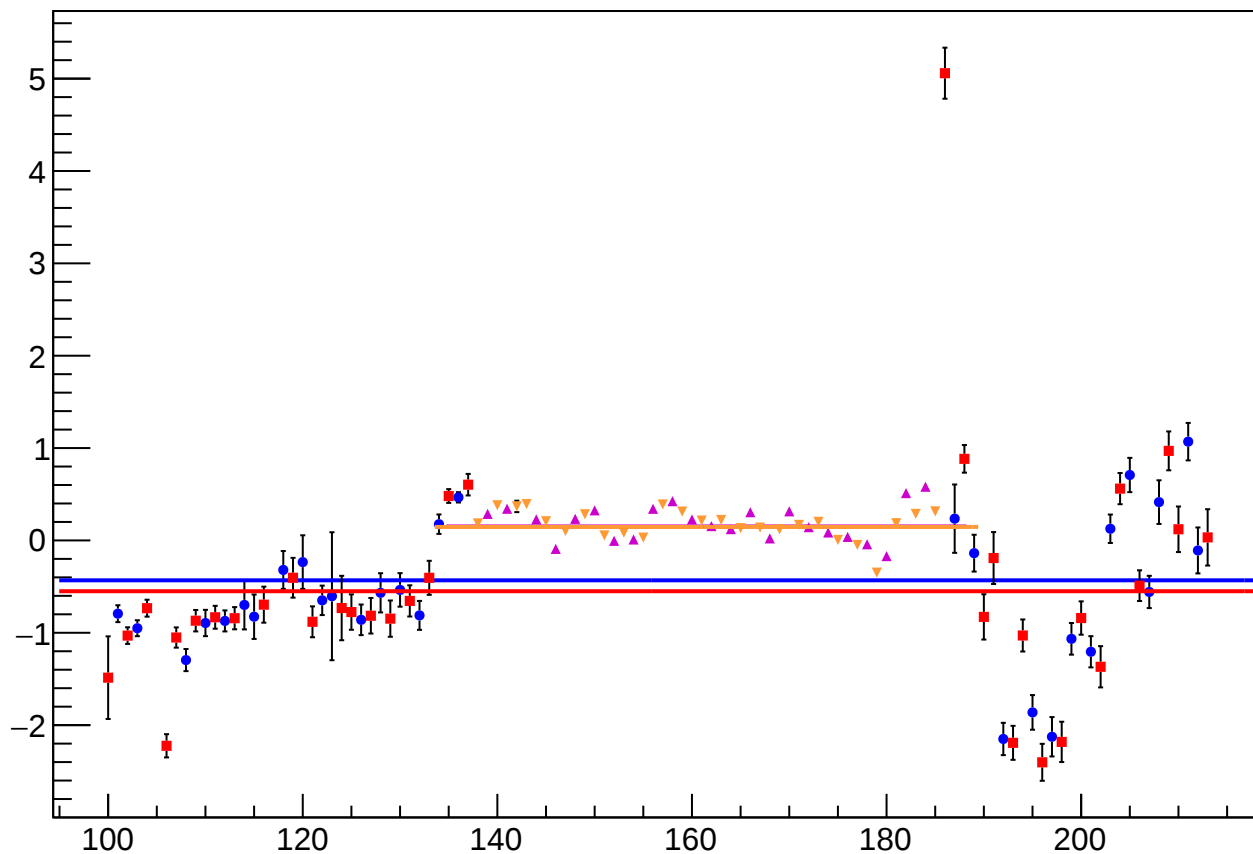
Right: 22.504 $\pm$ 0.369 χ^2 /NDF: 961.0/63

In: 21.171 $\pm$ 0.135 χ^2 /NDF: 2694.2/52

Out: 21.121 $\pm$ 0.134 χ^2 /NDF: 3253.8/58

All: 21.146 $\pm$ 0.095 χ^2 /NDF: 5948.1/111

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.432 ± 0.026 $\chi^2/\text{NDF}: 819.8/29$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.550 ± 0.026 $\chi^2/\text{NDF}: 1412.5/33$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

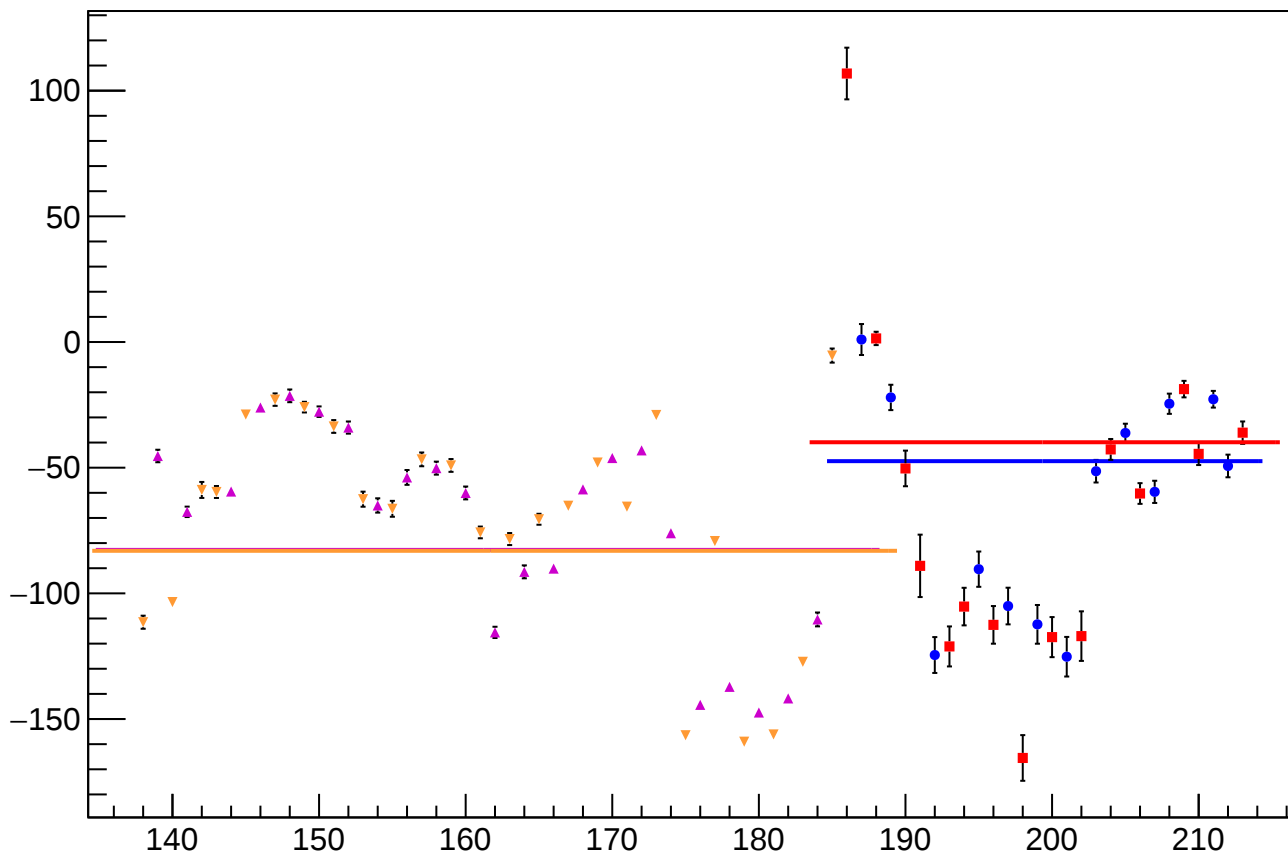
Right: -0.491 ± 0.019 $\chi^2/\text{NDF}: 2242.5/63$

In: 0.119 ± 0.006 $\chi^2/\text{NDF}: 2153.8/52$

Out: 0.108 ± 0.006 $\chi^2/\text{NDF}: 2691.4/58$

All: 0.113 ± 0.004 $\chi^2/\text{NDF}: 4846.8/111$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -47.400 ± 1.369 $\chi^2/\text{NDF}: 577.4/12$

Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$

Right Out: -39.880 ± 1.315 $\chi^2/\text{NDF}: 1153.7/14$

Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$

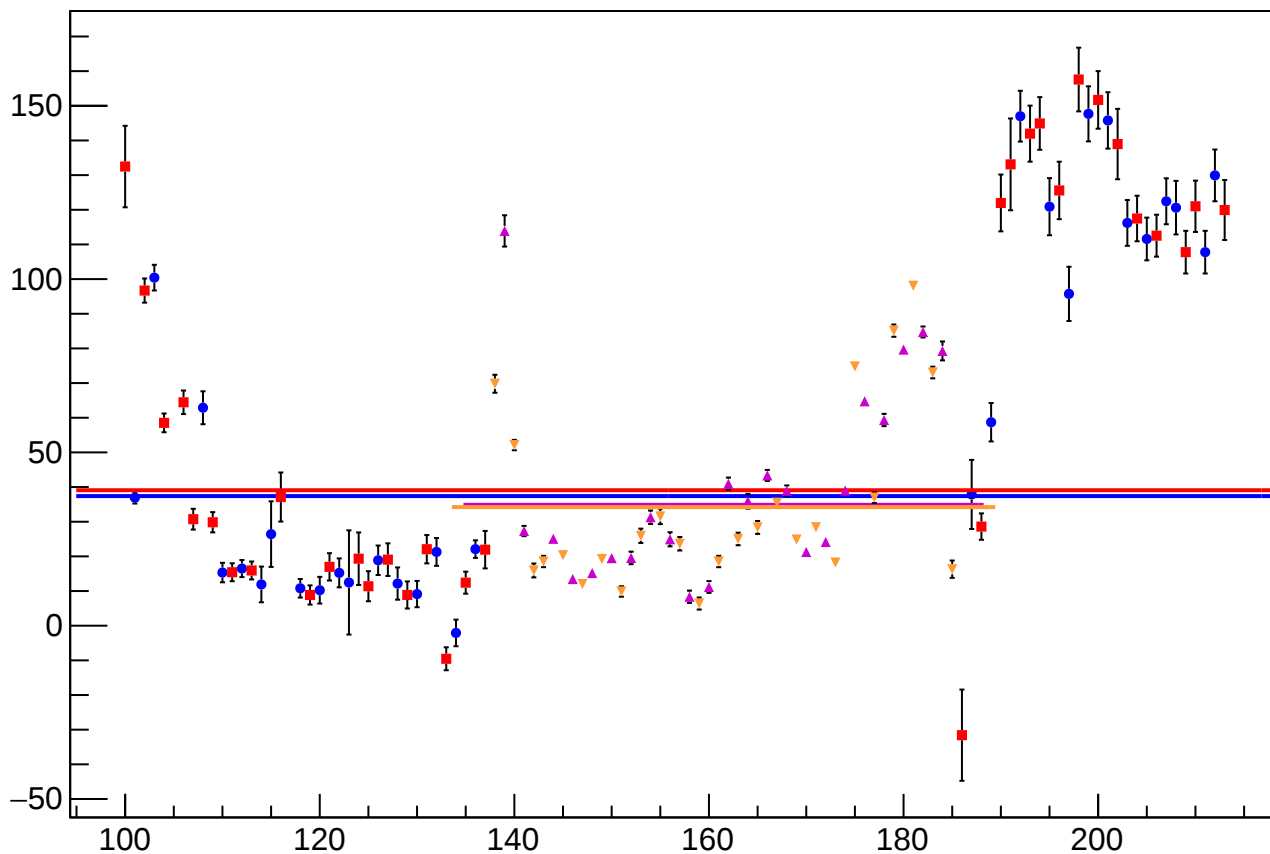
Right: -43.487 ± 0.948 $\chi^2/\text{NDF}: 1746.8/27$

In: -79.738 ± 0.397 $\chi^2/\text{NDF}: 12027.8/35$

Out: -79.302 ± 0.388 $\chi^2/\text{NDF}: 15956.0/39$

All: -79.515 ± 0.278 $\chi^2/\text{NDF}: 27984.5/75$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 37.396 $\pm$ 0.747 χ^2 /NDF: 2538.5/29

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF: 6192.6/24

Right Out: 39.082 $\pm$ 0.744 χ^2 /NDF: 2939.6/33

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

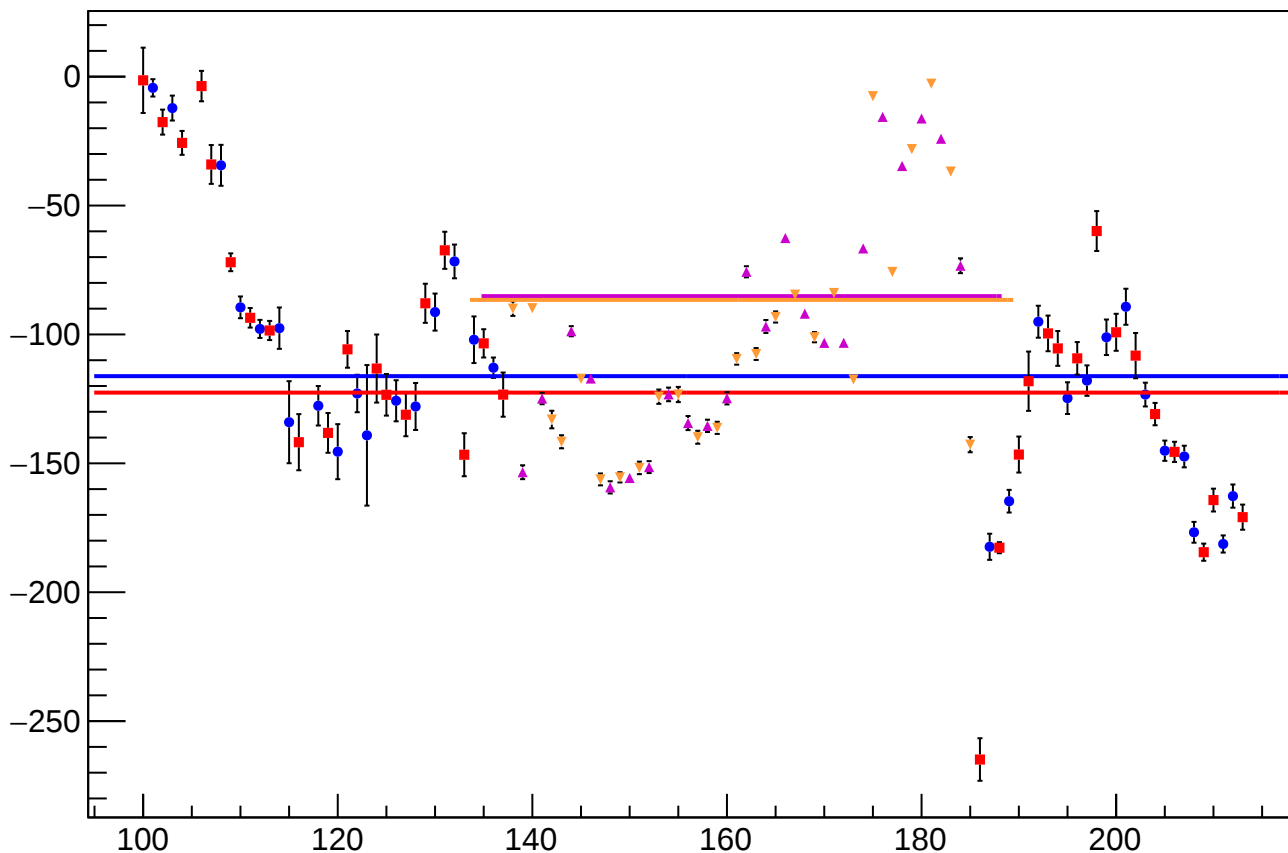
Right: 38.243 $\pm$ 0.527 χ^2 /NDF: 5480.6/63

In: 35.280 $\pm$ 0.301 χ^2 /NDF: 7264.2/52

Out: 34.980 $\pm$ 0.294 χ^2 /NDF: 9168.3/58

All: 35.126 $\pm$ 0.210 χ^2 /NDF: 16432.9/111

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -116.178 ± 0.962 χ^2/NDF : 2972.3/29

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -122.562 ± 0.904 χ^2/NDF : 3737.9/33

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

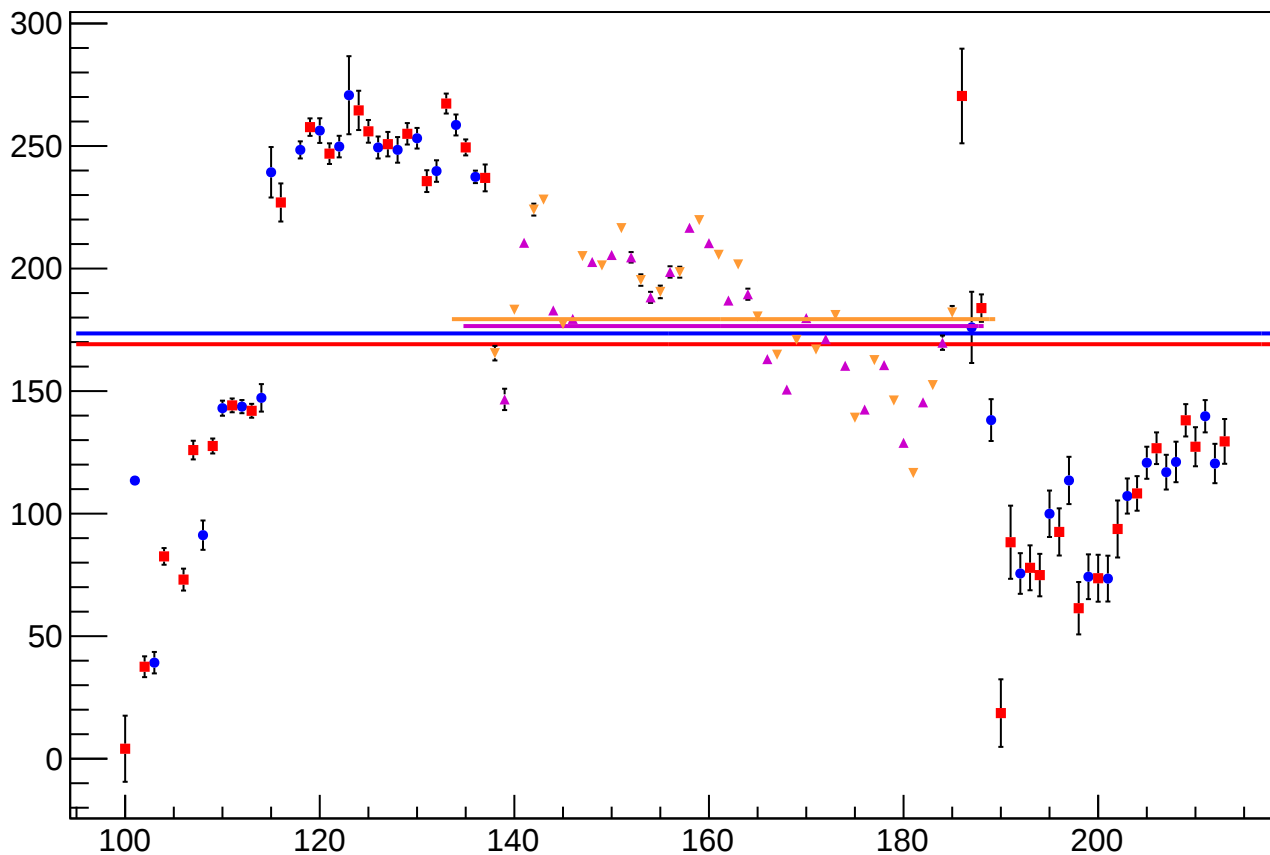
Right: -119.571 ± 0.659 χ^2/NDF : 6733.5/63

In: -90.001 ± 0.381 χ^2/NDF : 16690.8/52

Out: -92.696 ± 0.372 χ^2/NDF : 19569.0/58

All: -91.381 ± 0.266 χ^2/NDF : 36285.4/111

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 173.528 ± 0.853 $\chi^2/\text{NDF}: 6247.3/29$

Left Out: 179.359 ± 0.362 $\chi^2/\text{NDF}: 5982.2/24$

Right Out: 169.130 ± 0.854 $\chi^2/\text{NDF}: 7318.8/33$

Left In: 176.531 ± 0.371 $\chi^2/\text{NDF}: 4426.0/22$

Left: 177.980 ± 0.259 $\chi^2/\text{NDF}: 10438.0/47$

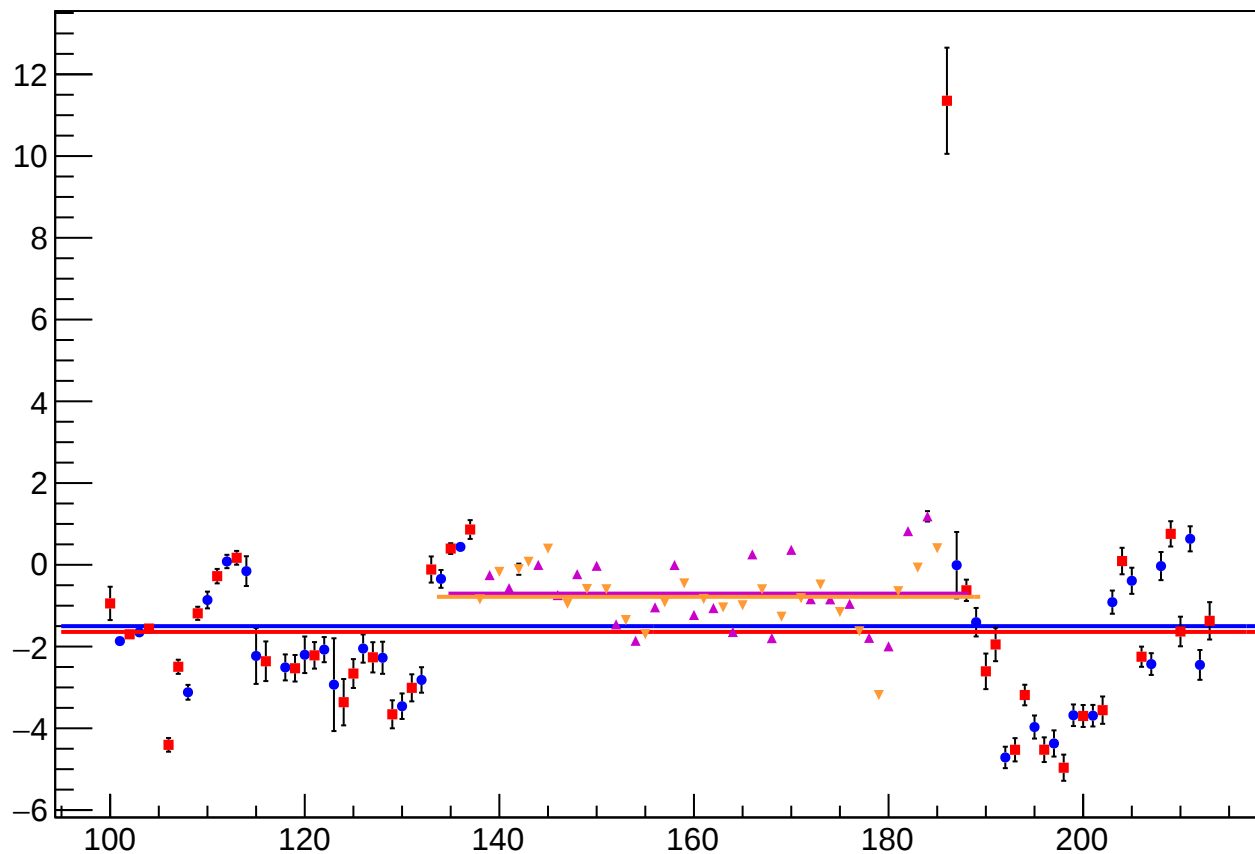
Right: 171.332 ± 0.603 $\chi^2/\text{NDF}: 13579.4/63$

In: 176.054 ± 0.340 $\chi^2/\text{NDF}: 10683.7/52$

Out: 177.802 ± 0.333 $\chi^2/\text{NDF}: 13422.7/58$

All: 176.946 ± 0.238 $\chi^2/\text{NDF}: 24119.8/111$

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.501 ± 0.042 χ^2/NDF : 1209.9/29

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.642 ± 0.040 χ^2/NDF : 1596.5/33

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

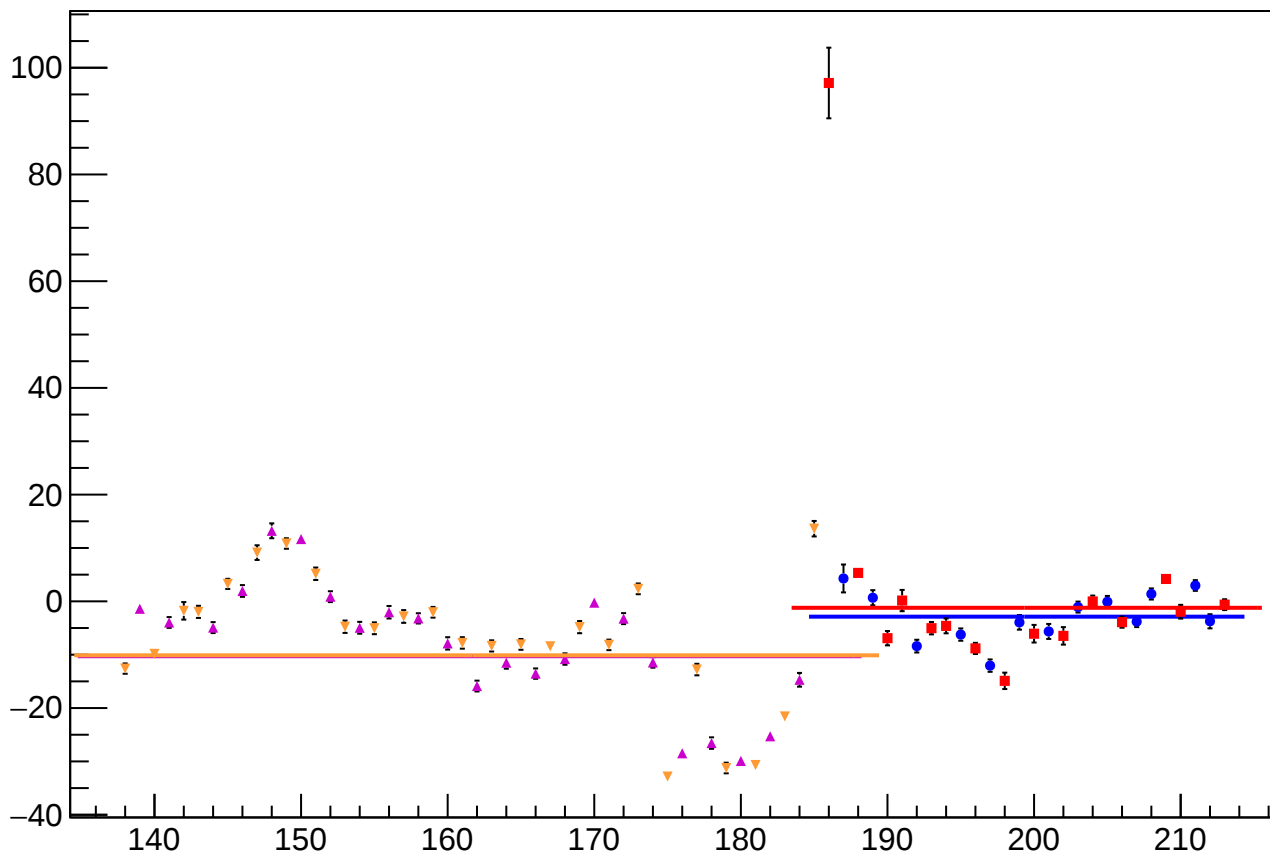
Right: -1.575 ± 0.029 χ^2/NDF : 2812.4/63

In: -0.816 ± 0.016 χ^2/NDF : 3927.3/52

Out: -0.909 ± 0.015 χ^2/NDF : 3759.8/58

All: -0.864 ± 0.011 χ^2/NDF : 7705.1/111

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.874 ± 0.333 $\chi^2/\text{NDF}: 171.3/12$

Left Out: -10.117 ± 0.201 $\chi^2/\text{NDF}: 4138.1/24$

Right Out: -1.210 ± 0.298 $\chi^2/\text{NDF}: 558.5/14$

Left In: -10.290 ± 0.205 $\chi^2/\text{NDF}: 3451.0/22$

Left: -10.202 ± 0.144 $\chi^2/\text{NDF}: 7589.5/47$

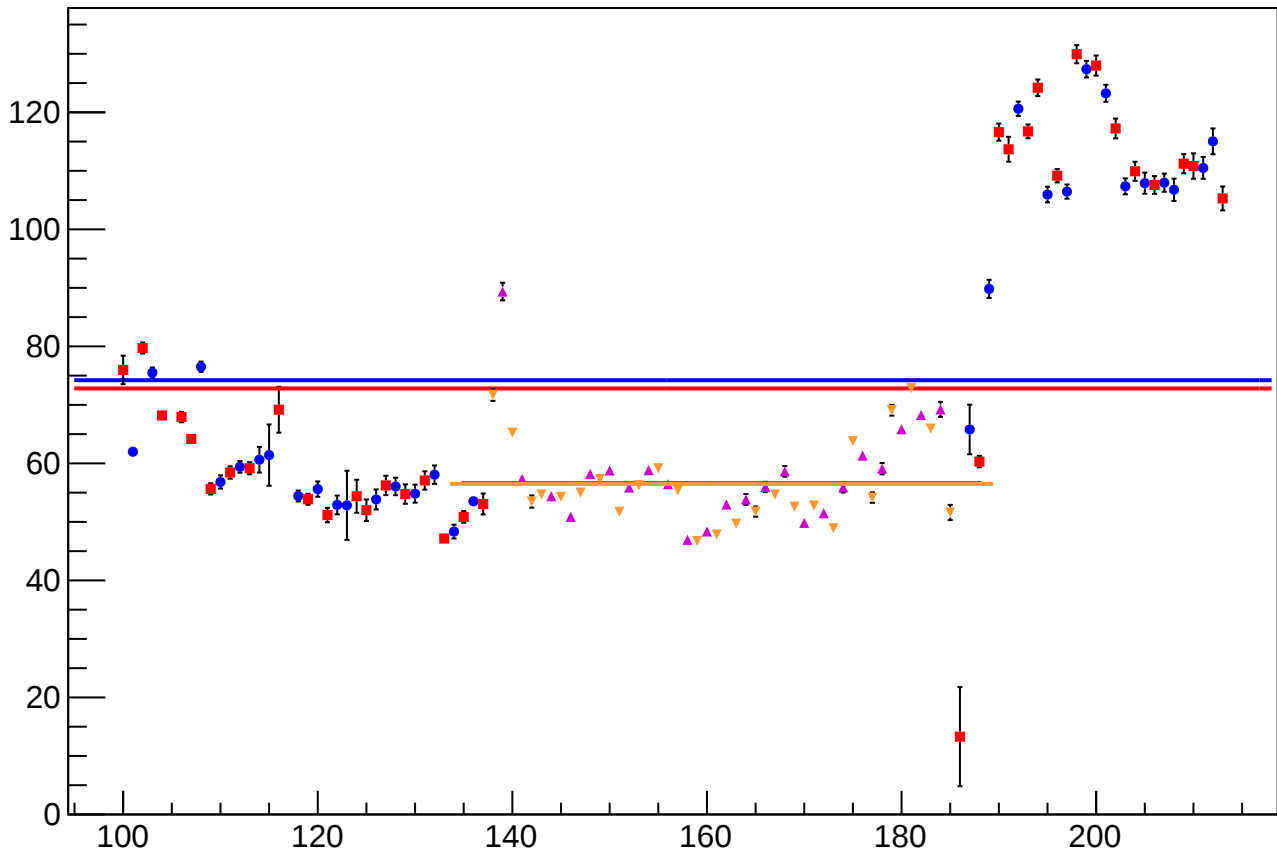
Right: -1.952 ± 0.222 $\chi^2/\text{NDF}: 743.7/27$

In: -8.242 ± 0.175 $\chi^2/\text{NDF}: 3982.3/35$

Out: -7.329 ± 0.167 $\chi^2/\text{NDF}: 5308.8/39$

All: -7.764 ± 0.121 $\chi^2/\text{NDF}: 9305.4/75$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 74.215+/-0.225 χ^2/NDF : 11356.4/29

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 72.809+/-0.210 χ^2/NDF : 14654.2/33

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

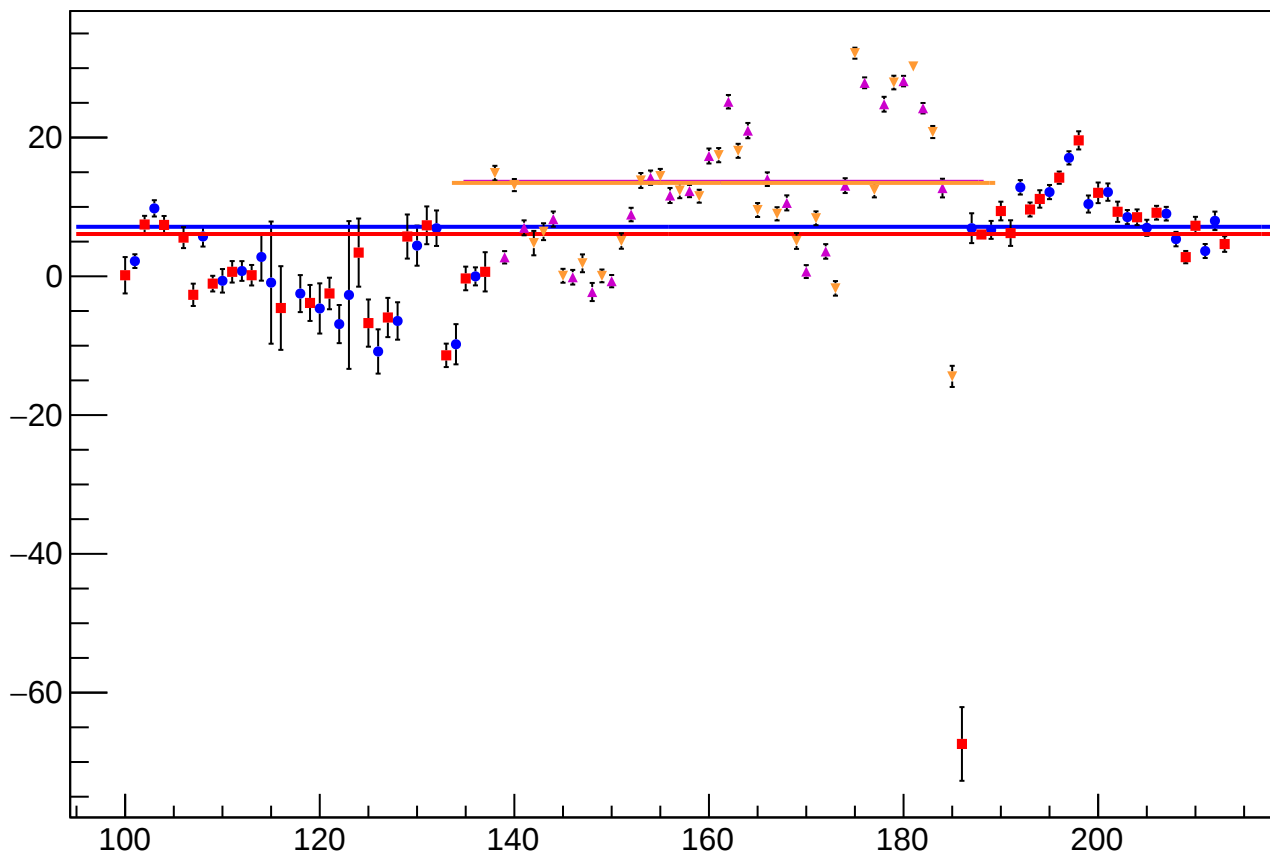
Right: 73.463+/-0.153 χ^2/NDF : 26031.5/63

In: 62.798+/-0.133 χ^2/NDF :16938.0/52

Out: 62.444+/-0.127 χ^2/NDF :20466.8/58

All: 62.613+/-0.092 χ^2/NDF : 37408.5/111

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected

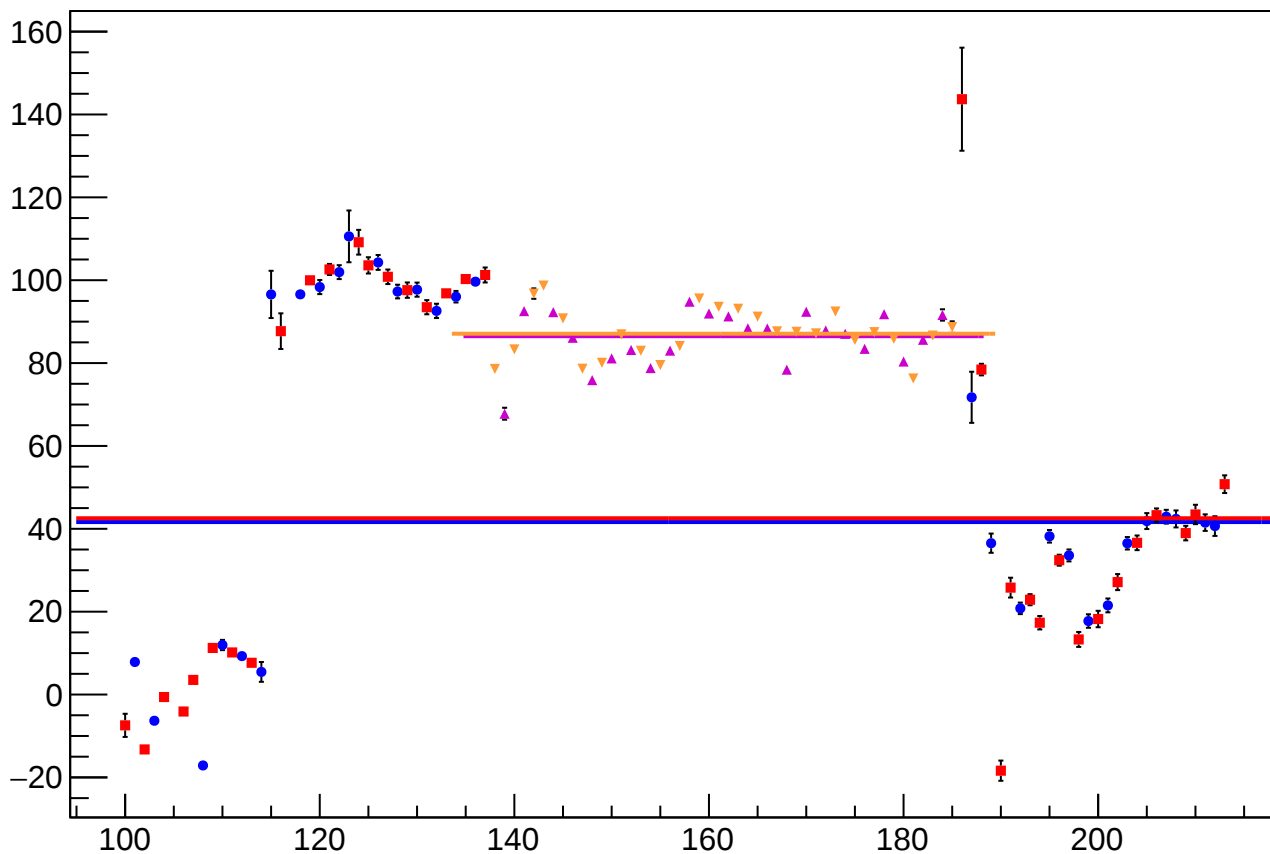


Right In: 7.135 ± 0.258 $\chi^2/\text{NDF}: 453.0/29$
 Left Out: 13.462 ± 0.202 $\chi^2/\text{NDF}: 2736.3/24$
 Right Out: 6.096 ± 0.230 $\chi^2/\text{NDF}: 763.8/33$
 Left In: 13.620 ± 0.204 $\chi^2/\text{NDF}: 2315.4/22$

Left: 13.540 ± 0.144 $\chi^2/\text{NDF}: 5052.0/47$
 Right: 6.555 ± 0.171 $\chi^2/\text{NDF}: 1225.8/63$
 In: 11.118 ± 0.160 $\chi^2/\text{NDF}: 3156.5/52$
 Out: 10.256 ± 0.151 $\chi^2/\text{NDF}: 4081.7/58$

All: 10.663 ± 0.110 $\chi^2/\text{NDF}: 7253.6/111$

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.629 $\pm$ 0.259 χ^2 /NDF: 25471.4/29

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 42.547 $\pm$ 0.246 χ^2 /NDF: 30776.2/33

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

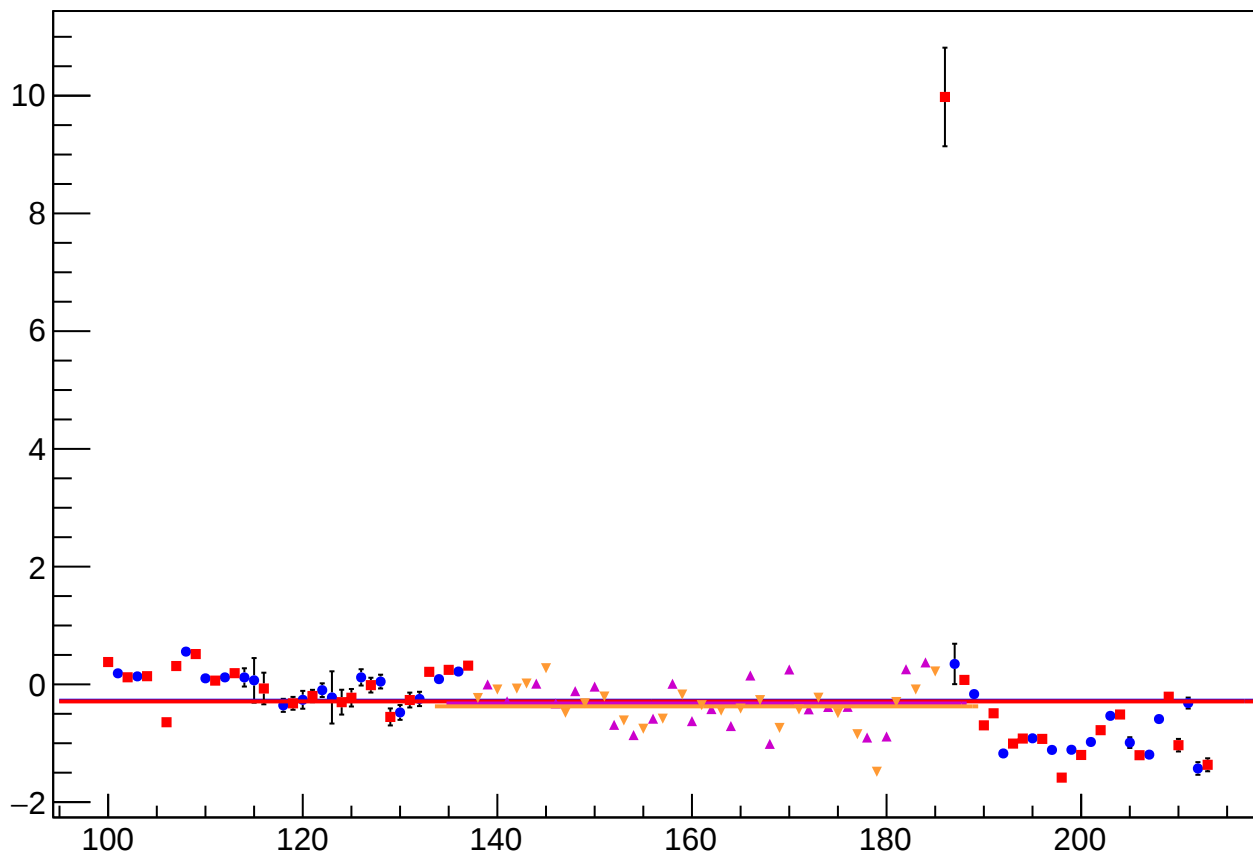
Right: 42.112 $\pm$ 0.178 χ^2 /NDF: 56254.3/63

In: 71.398 $\pm$ 0.150 χ^2 /NDF:46326.1/52

Out: 71.651 $\pm$ 0.145 χ^2 /NDF:53300.8/58

All: 71.529 $\pm$ 0.104 χ^2 /NDF: 99628.4/111

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.277 ± 0.011 χ^2/NDF : 3309.5/29

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.290 ± 0.010 χ^2/NDF : 3703.8/33

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

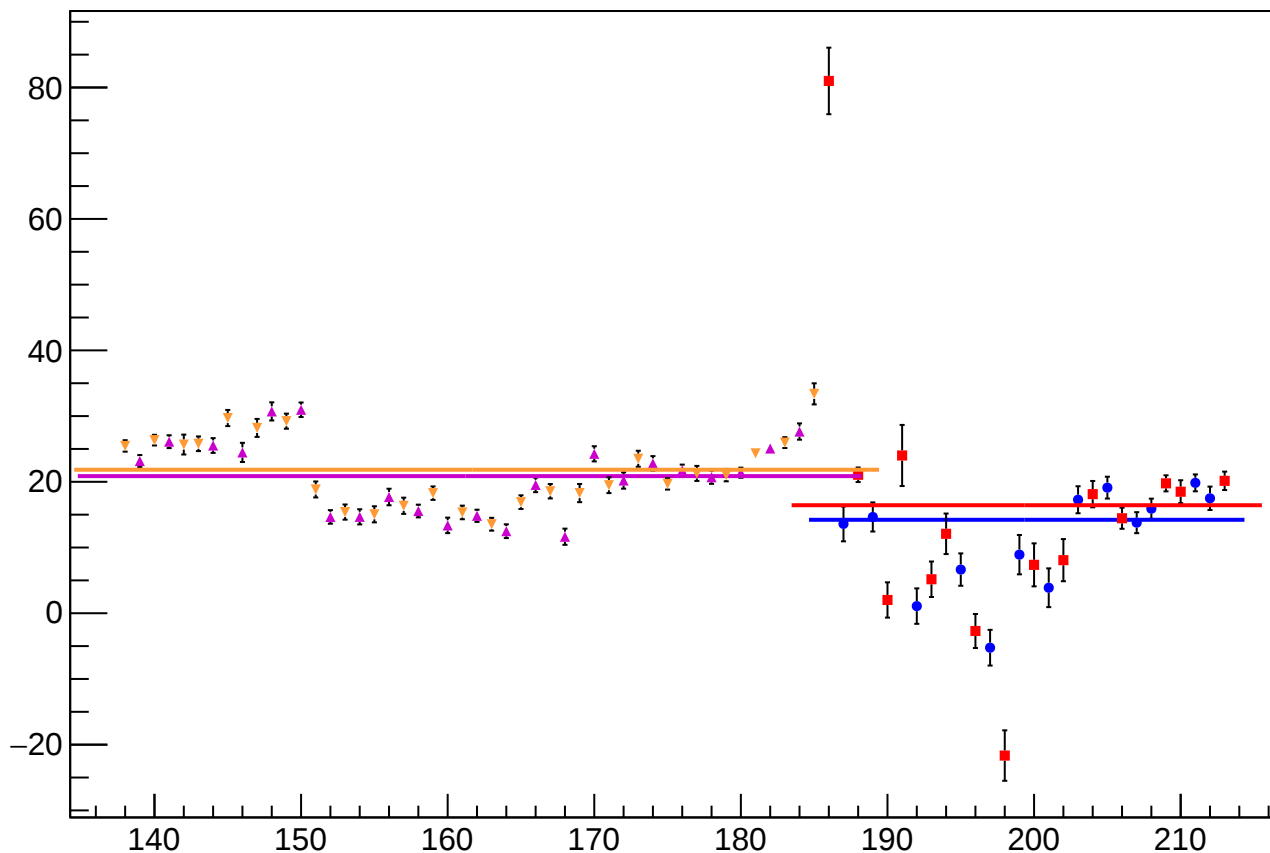
Right: -0.284 ± 0.007 χ^2/NDF : 7014.0/63

In: -0.307 ± 0.007 χ^2/NDF : 5606.2/52

Out: -0.340 ± 0.006 χ^2/NDF : 5414.5/58

All: -0.324 ± 0.005 χ^2/NDF : 11033.7/111

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.220 $\pm$ 0.547 χ^2 /NDF: 134.7/12

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF:524.3/24

Right Out: 16.435 $\pm$ 0.511 χ^2 /NDF: 416.6/14

Left In: 20.866 $\pm$ 0.217 χ^2 /NDF:576.9/22

Left: 21.366 $\pm$ 0.151 χ^2 /NDF: 1111.6/47

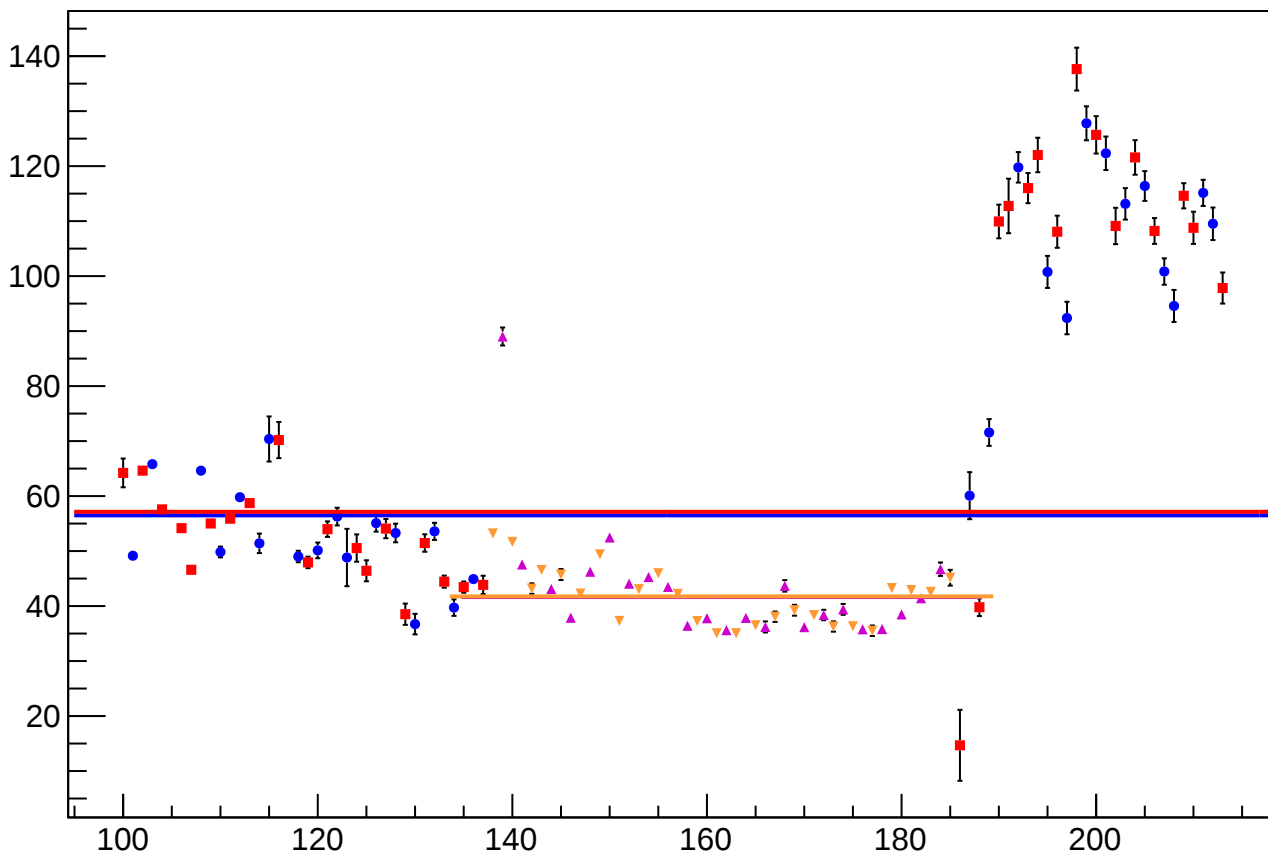
Right: 15.402 $\pm$ 0.373 χ^2 /NDF: 560.1/27

In: 19.963 $\pm$ 0.201 χ^2 /NDF:839.4/35

Out: 21.056 $\pm$ 0.194 χ^2 /NDF:1036.7/39

All: 20.530 $\pm$ 0.140 χ^2 /NDF: 1891.3/75

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 56.494+/-0.204 χ^2/NDF : 5734.7/29

Left Out: 41.757+/-0.165 χ^2/NDF :1015.7/24

Right Out: 57.144+/-0.217 χ^2/NDF : 6059.5/33

Left In: 41.643+/-0.174 χ^2/NDF :1611.0/22

Left: 41.703+/-0.120 χ^2/NDF : 2626.9/47

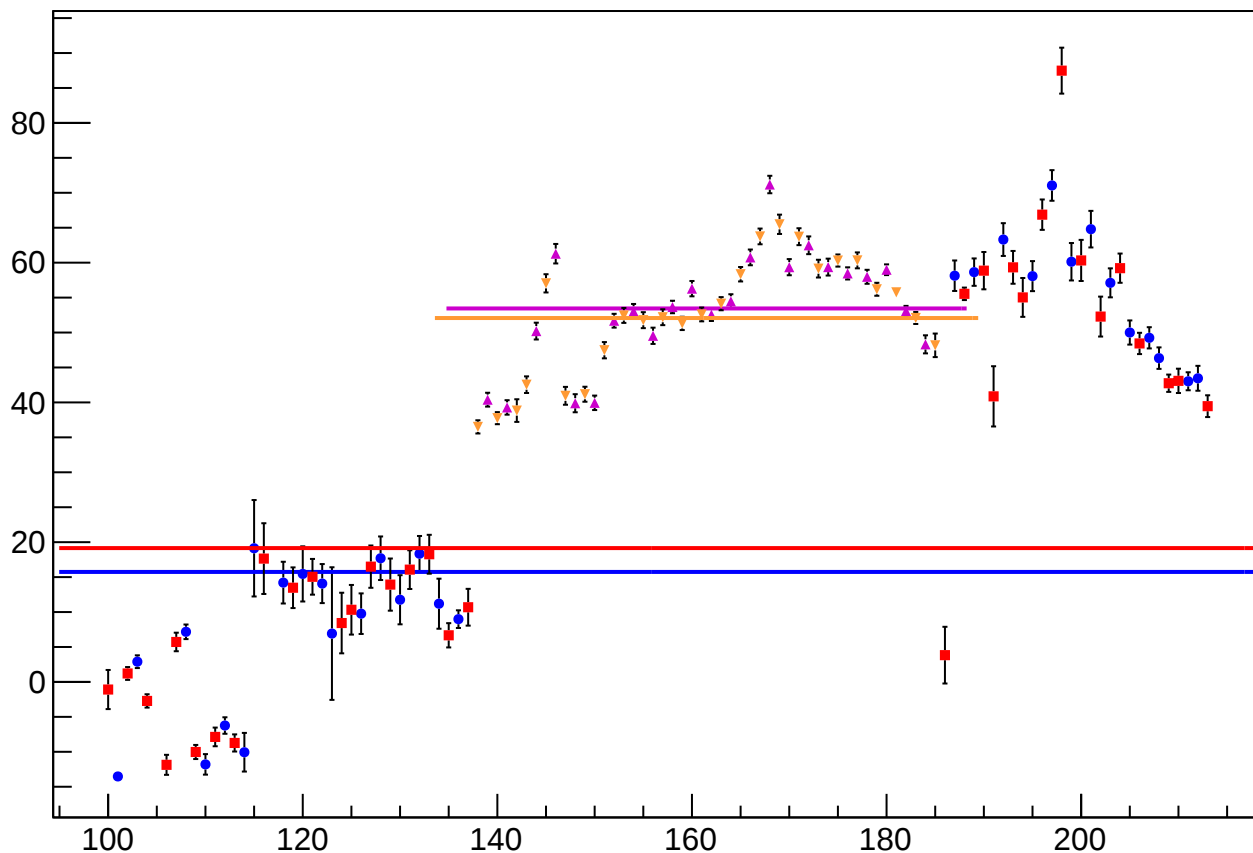
Right: 56.799+/-0.148 χ^2/NDF : 11799.0/63

In: 47.897+/-0.132 χ^2/NDF :10421.3/52

Out: 47.421+/-0.131 χ^2/NDF :10262.6/58

All: 47.658+/-0.093 χ^2/NDF : 20690.5/111

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.741 $\pm$ 0.298 χ^2 /NDF: 8591.5/29

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 19.153 $\pm$ 0.296 χ^2 /NDF: 8458.0/33

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

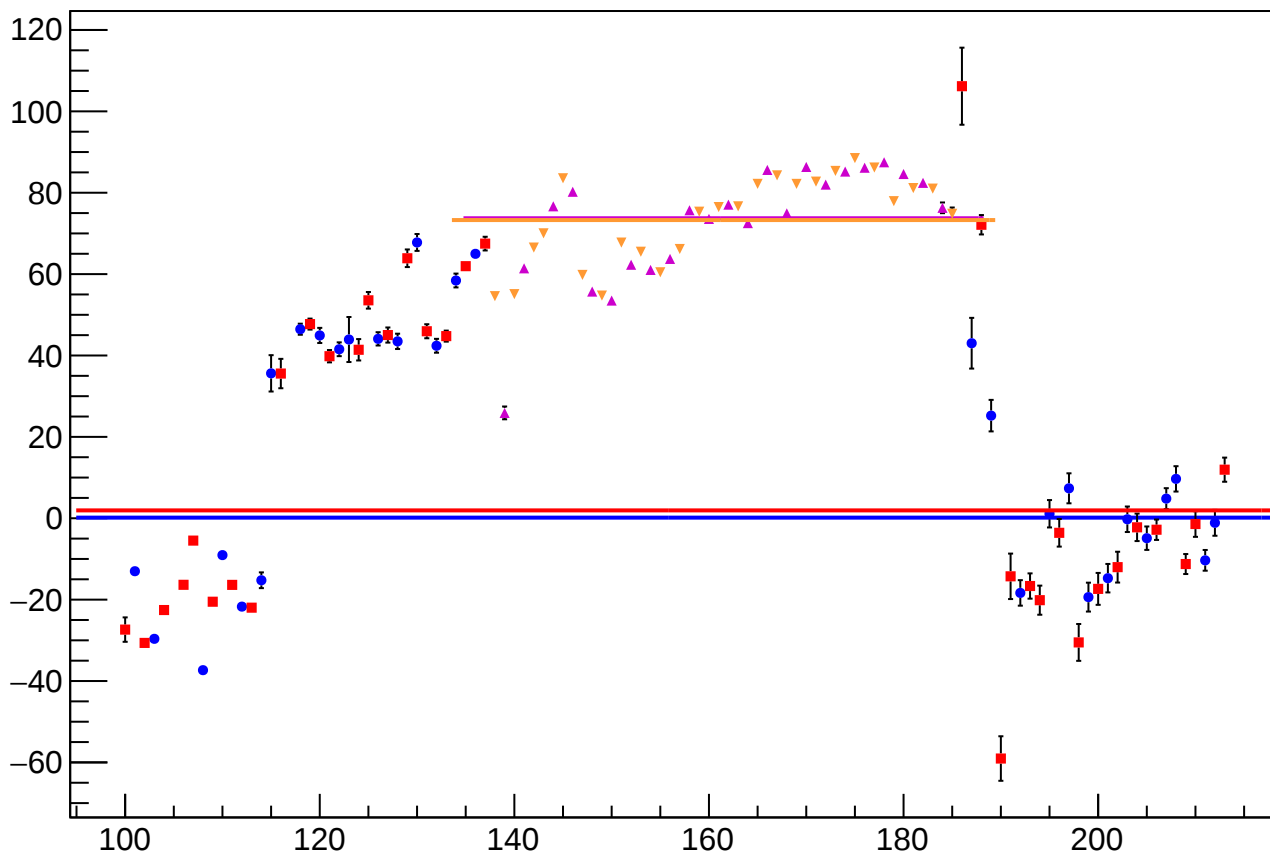
Right: 17.463 $\pm$ 0.210 χ^2 /NDF: 17115.5/63

In: 40.538 $\pm$ 0.175 χ^2 /NDF:20255.8/52

Out: 41.034 $\pm$ 0.171 χ^2 /NDF:18152.0/58

All: 40.791 $\pm$ 0.122 χ^2 /NDF: 38411.9/111

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.155+/-0.239 χ^2/NDF : 18429.5/29

Left Out: 73.284+/-0.187 χ^2/NDF :3144.2/24

Right Out: 1.935+/-0.255 χ^2/NDF : 16746.8/33

Left In: 73.730+/-0.194 χ^2/NDF :3775.8/22

Left: 73.498+/-0.135 χ^2/NDF : 6922.7/47

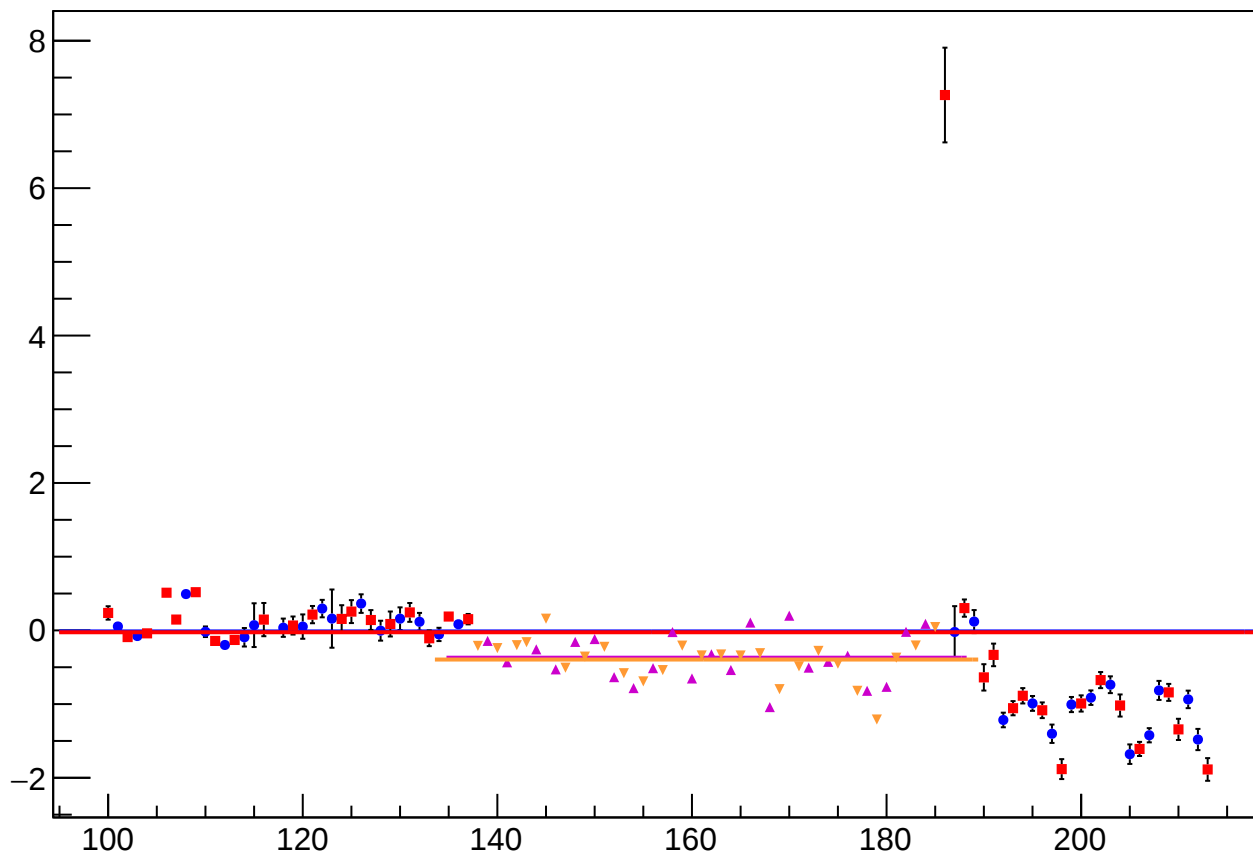
Right: 0.986+/-0.174 χ^2/NDF : 35202.2/63

In: 44.399+/-0.151 χ^2/NDF :79347.4/52

Out: 48.355+/-0.151 χ^2/NDF :70838.8/58

All: 46.377+/-0.107 χ^2/NDF : 150530.8/111

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.014 ± 0.010 $\chi^2/\text{NDF}: 1673.3/29$

Left Out: -0.396 ± 0.009 $\chi^2/\text{NDF}: 950.0/24$

Right Out: -0.025 ± 0.010 $\chi^2/\text{NDF}: 1829.3/33$

Left In: -0.371 ± 0.009 $\chi^2/\text{NDF}: 1313.7/22$

Left: -0.383 ± 0.006 $\chi^2/\text{NDF}: 2268.0/47$

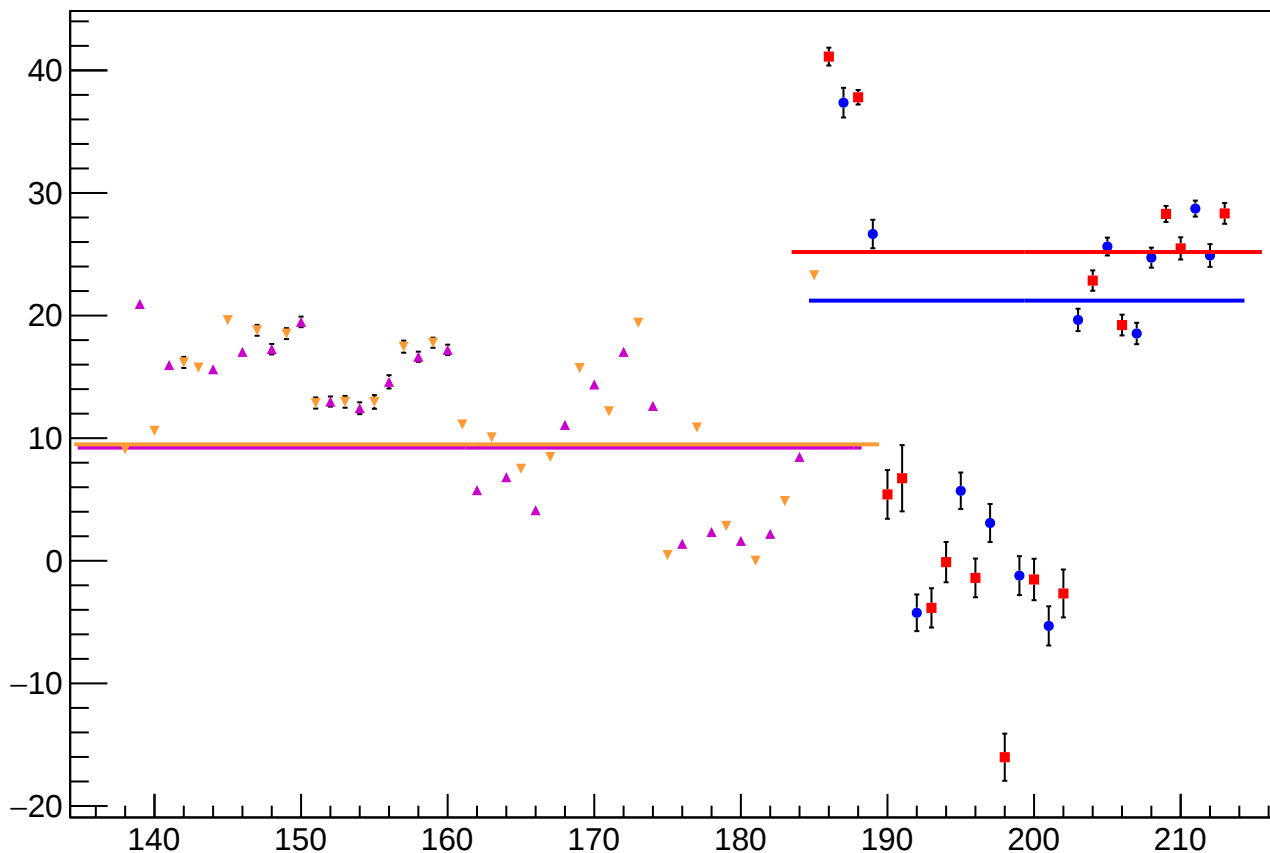
Right: -0.020 ± 0.007 $\chi^2/\text{NDF}: 3503.2/63$

In: -0.225 ± 0.007 $\chi^2/\text{NDF}: 3672.8/52$

Out: -0.247 ± 0.007 $\chi^2/\text{NDF}: 3534.8/58$

All: -0.236 ± 0.005 $\chi^2/\text{NDF}: 7212.9/111$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 21.220 ± 0.278 χ^2/NDF : 1425.9/12

Left Out: 9.495 ± 0.061 χ^2/NDF : 12609.1/24

Right Out: 25.183 ± 0.258 χ^2/NDF : 2937.6/14

Left In: 9.231 ± 0.063 χ^2/NDF : 10736.2/22

Left: 9.367 ± 0.044 χ^2/NDF : 23354.3/47

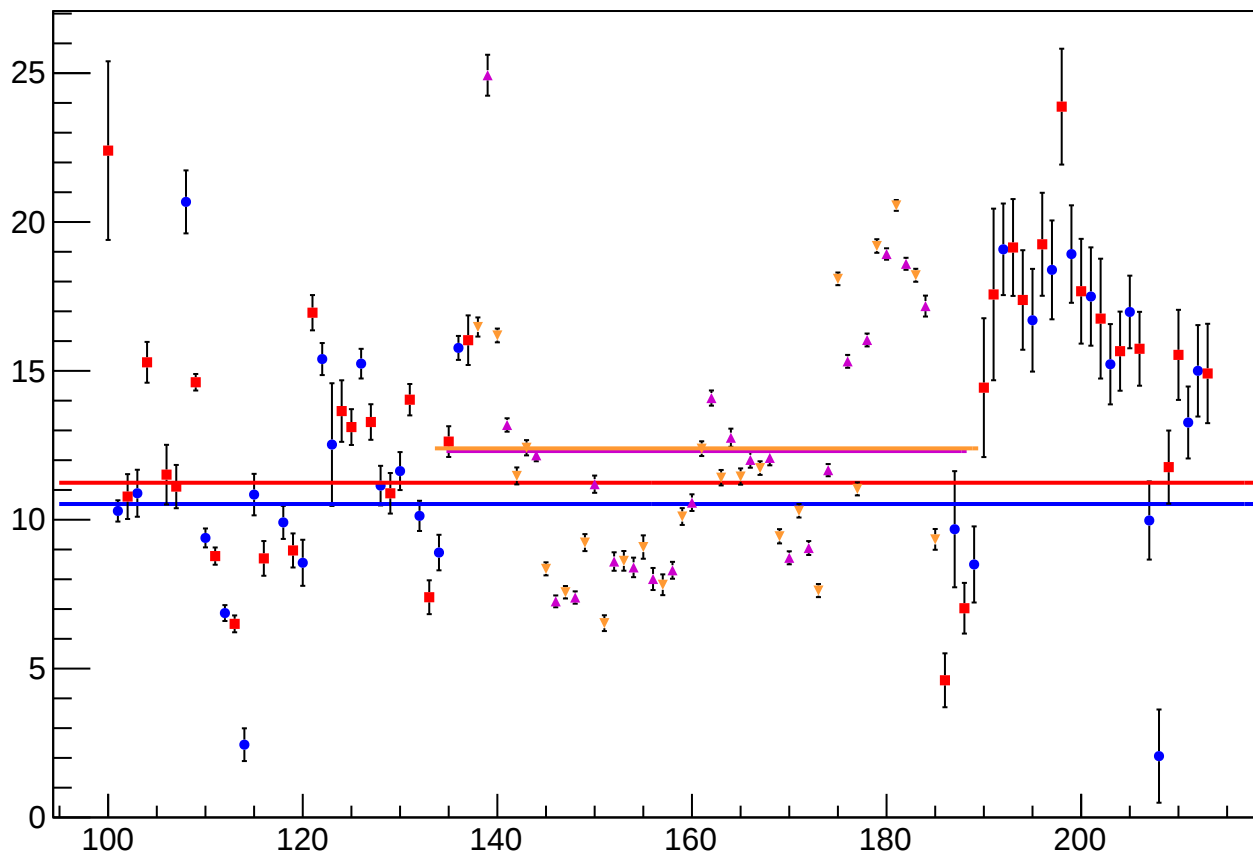
Right: 23.348 ± 0.189 χ^2/NDF : 4472.6/27

In: 9.817 ± 0.061 χ^2/NDF : 13930.7/35

Out: 10.330 ± 0.060 χ^2/NDF : 19039.5/39

All: 10.081 ± 0.043 χ^2/NDF : 33006.1/75

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.528 ± 0.115 $\chi^2/\text{NDF}: 1067.8/29$

Left Out: 12.397 ± 0.050 $\chi^2/\text{NDF}: 7542.8/24$

Right Out: 11.242 ± 0.111 $\chi^2/\text{NDF}: 1062.1/33$

Left In: 12.307 ± 0.051 $\chi^2/\text{NDF}: 5601.8/22$

Left: 12.353 ± 0.036 $\chi^2/\text{NDF}: 13146.3/47$

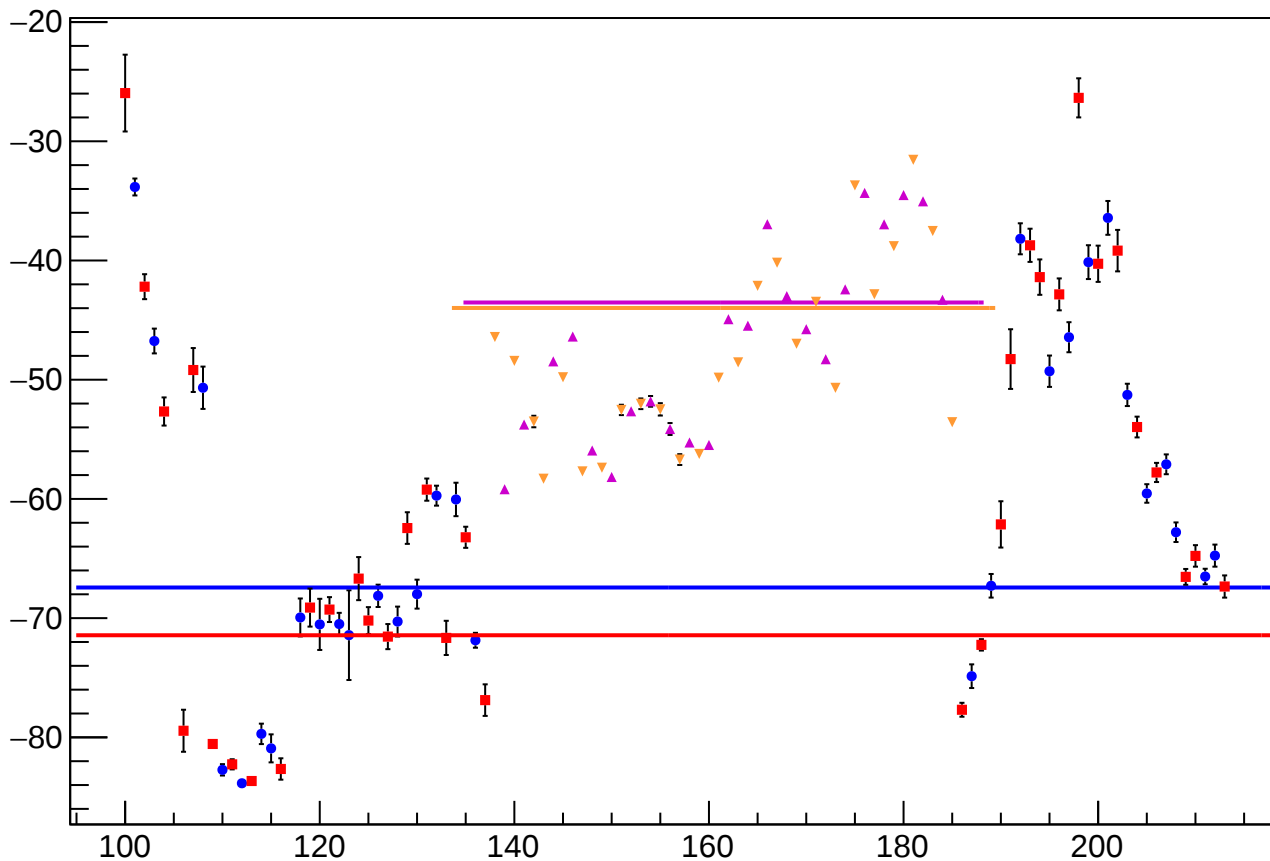
Right: 10.897 ± 0.080 $\chi^2/\text{NDF}: 2149.9/63$

In: 12.012 ± 0.047 $\chi^2/\text{NDF}: 6869.9/52$

Out: 12.204 ± 0.045 $\chi^2/\text{NDF}: 8695.0/58$

All: 12.111 ± 0.033 $\chi^2/\text{NDF}: 15573.7/111$

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.430 $\pm$ 0.159 χ^2 /NDF: 8615.5/29

Left Out: -43.982 $\pm$ 0.062 χ^2 /NDF:17736.8/24

Right Out: -71.436 $\pm$ 0.144 χ^2 /NDF: 8083.5/33

Left In: -43.523 $\pm$ 0.063 χ^2 /NDF:15267.1/22

Left: -43.757 $\pm$ 0.044 χ^2 /NDF: 33030.8/47

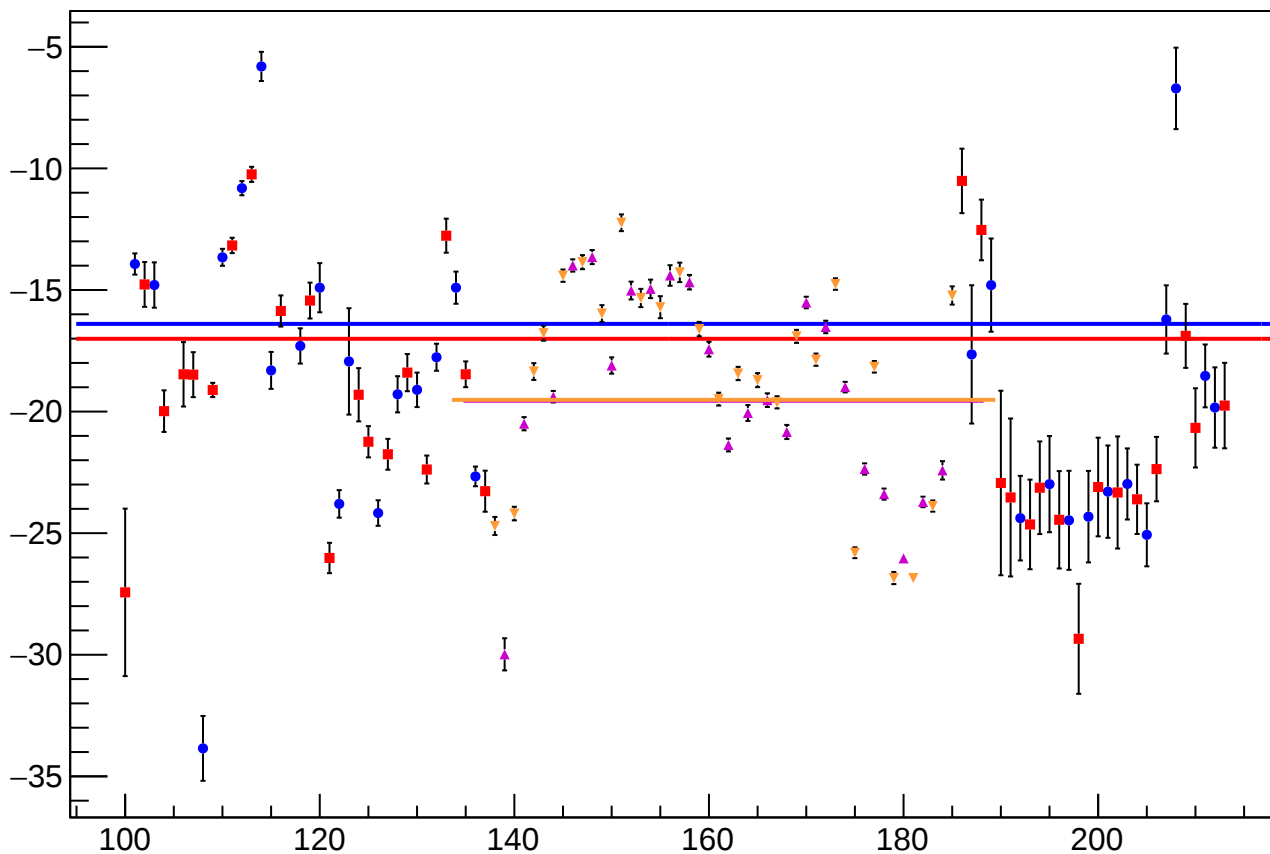
Right: -69.637 $\pm$ 0.107 χ^2 /NDF: 17047.7/63

In: -46.789 $\pm$ 0.059 χ^2 /NDF:43353.1/52

Out: -48.280 $\pm$ 0.057 χ^2 /NDF:56581.5/58

All: -47.559 $\pm$ 0.041 χ^2 /NDF: 100266.6/111

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.394 ± 0.128 $\chi^2/\text{NDF}: 1811.4/29$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -17.007 ± 0.123 $\chi^2/\text{NDF}: 1390.7/33$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

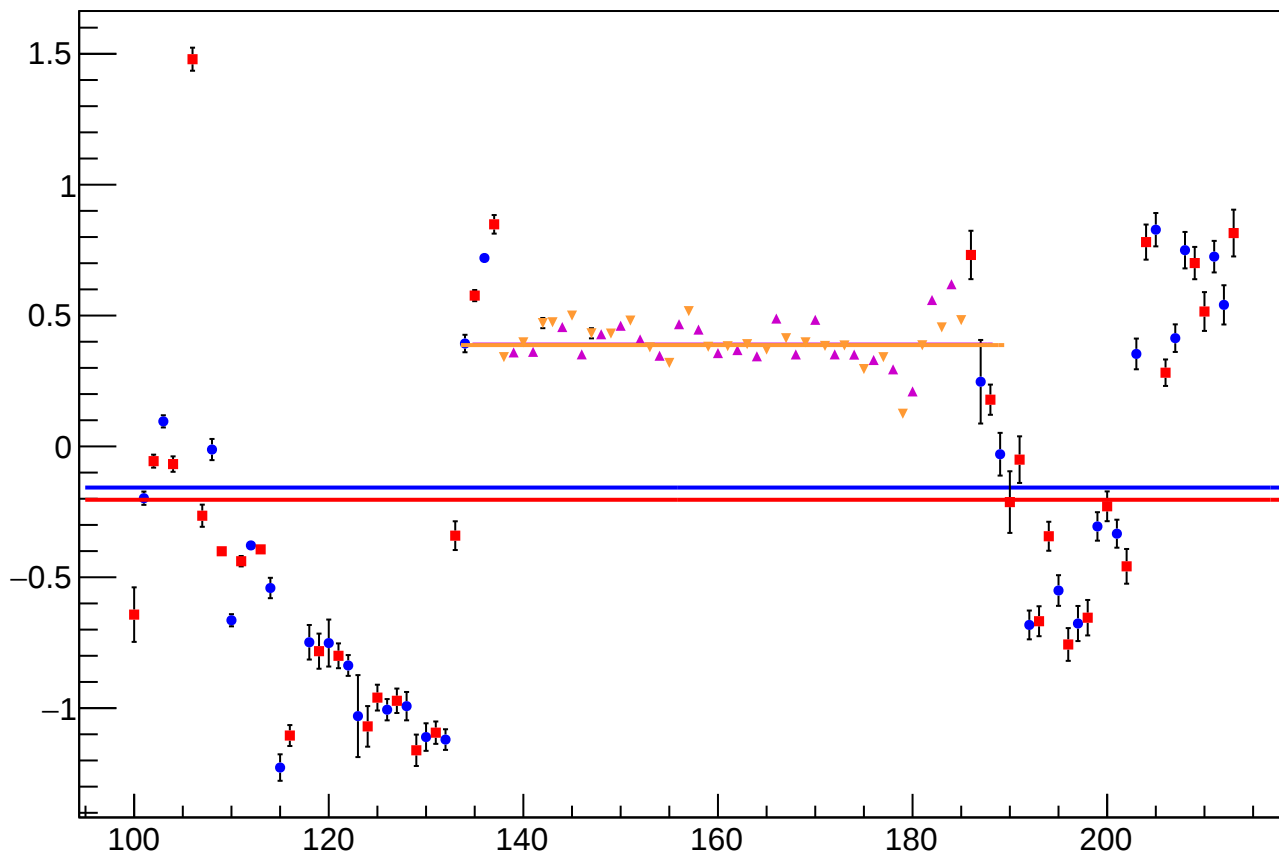
Right: -16.712 ± 0.089 $\chi^2/\text{NDF}: 3214.1/63$

In: -19.024 ± 0.052 $\chi^2/\text{NDF}: 6632.7/52$

Out: -19.090 ± 0.051 $\chi^2/\text{NDF}: 8253.5/58$

All: -19.058 ± 0.036 $\chi^2/\text{NDF}: 14887.0/111$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.157 ± 0.007 χ^2/NDF : 7467.7/29

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.204 ± 0.007 χ^2/NDF : 7304.0/33

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

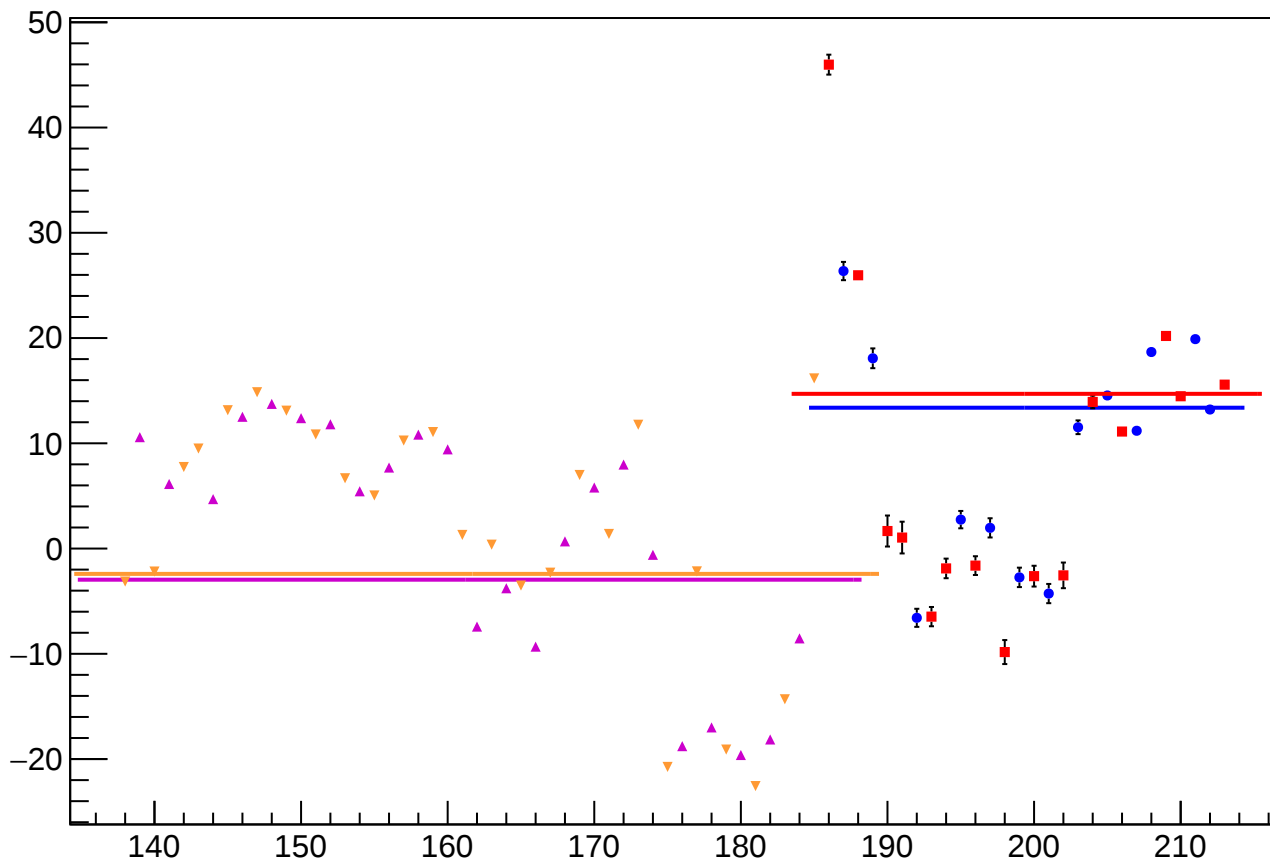
Right: -0.182 ± 0.005 χ^2/NDF : 14795.4/63

In: 0.321 ± 0.002 χ^2/NDF : 14154.3/52

Out: 0.310 ± 0.002 χ^2/NDF : 15231.9/58

All: 0.315 ± 0.002 χ^2/NDF : 29395.8/111

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.381 ± 0.159 $\chi^2/\text{NDF}: 2343.4/12$

Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$

Right Out: 14.700 ± 0.158 $\chi^2/\text{NDF}: 4430.2/14$

Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$

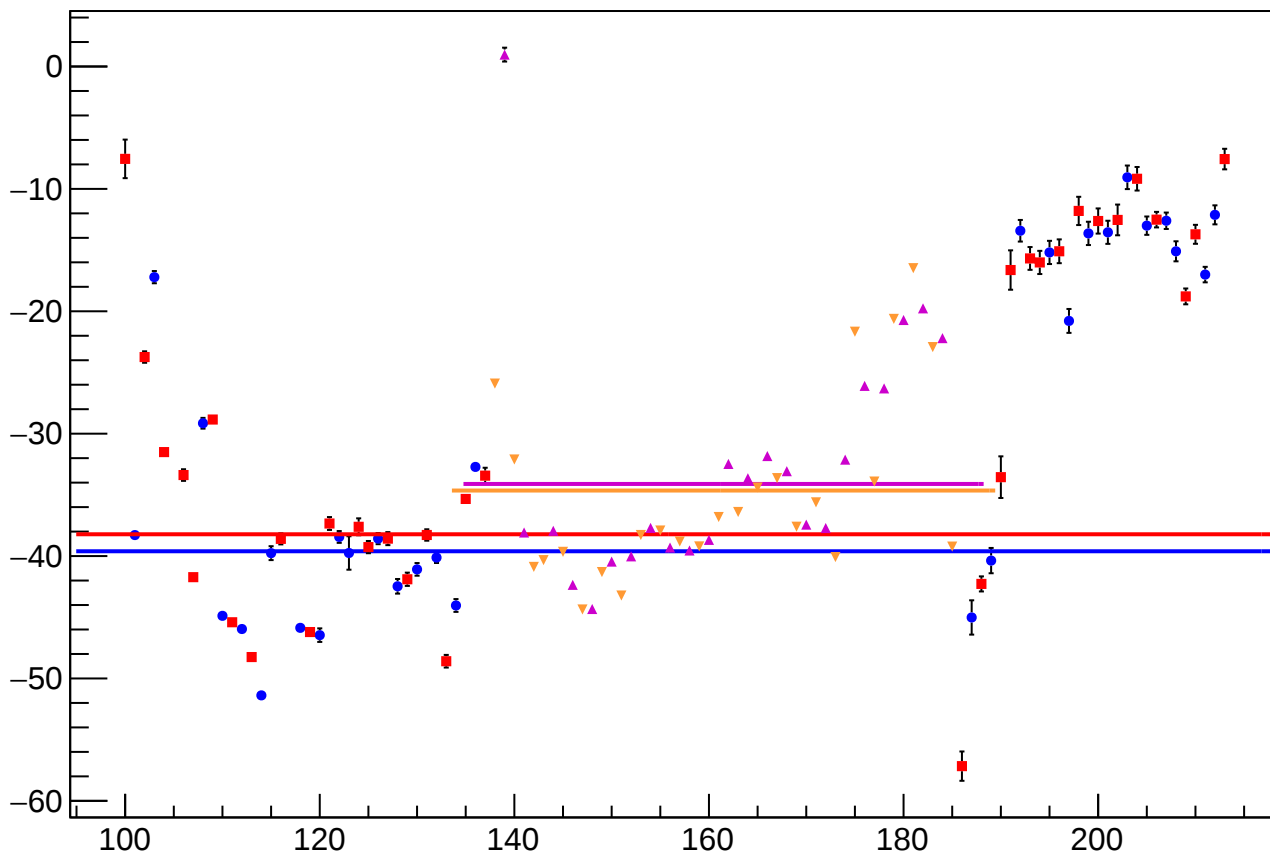
Right: 14.047 ± 0.112 $\chi^2/\text{NDF}: 6808.3/27$

In: -1.225 ± 0.052 $\chi^2/\text{NDF}: 57680.6/35$

Out: -0.681 ± 0.050 $\chi^2/\text{NDF}: 71397.4/39$

All: -0.944 ± 0.036 $\chi^2/\text{NDF}: 129135.0/75$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -39.608 ± 0.074 $\chi^2/\text{NDF}: 18346.9/29$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -38.219 ± 0.069 $\chi^2/\text{NDF}: 21495.1/33$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

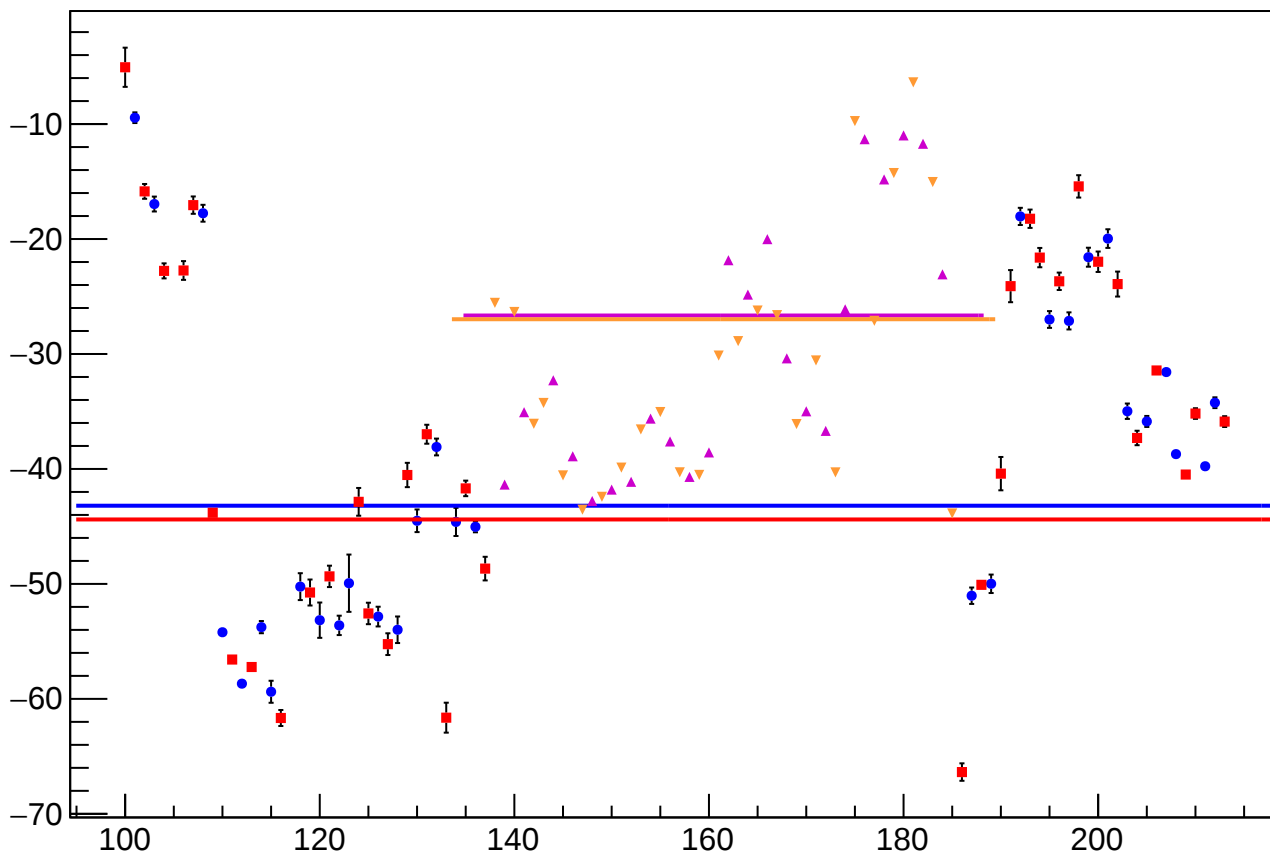
Right: -38.867 ± 0.051 $\chi^2/\text{NDF}: 40028.7/63$

In: -35.536 ± 0.038 $\chi^2/\text{NDF}: 51463.4/52$

Out: -35.595 ± 0.036 $\chi^2/\text{NDF}: 58113.8/58$

All: -35.567 ± 0.026 $\chi^2/\text{NDF}: 109578.4/111$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.198 ± 0.097 $\chi^2/\text{NDF}: 22127.2/29$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -44.394 ± 0.087 $\chi^2/\text{NDF}: 20659.0/33$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

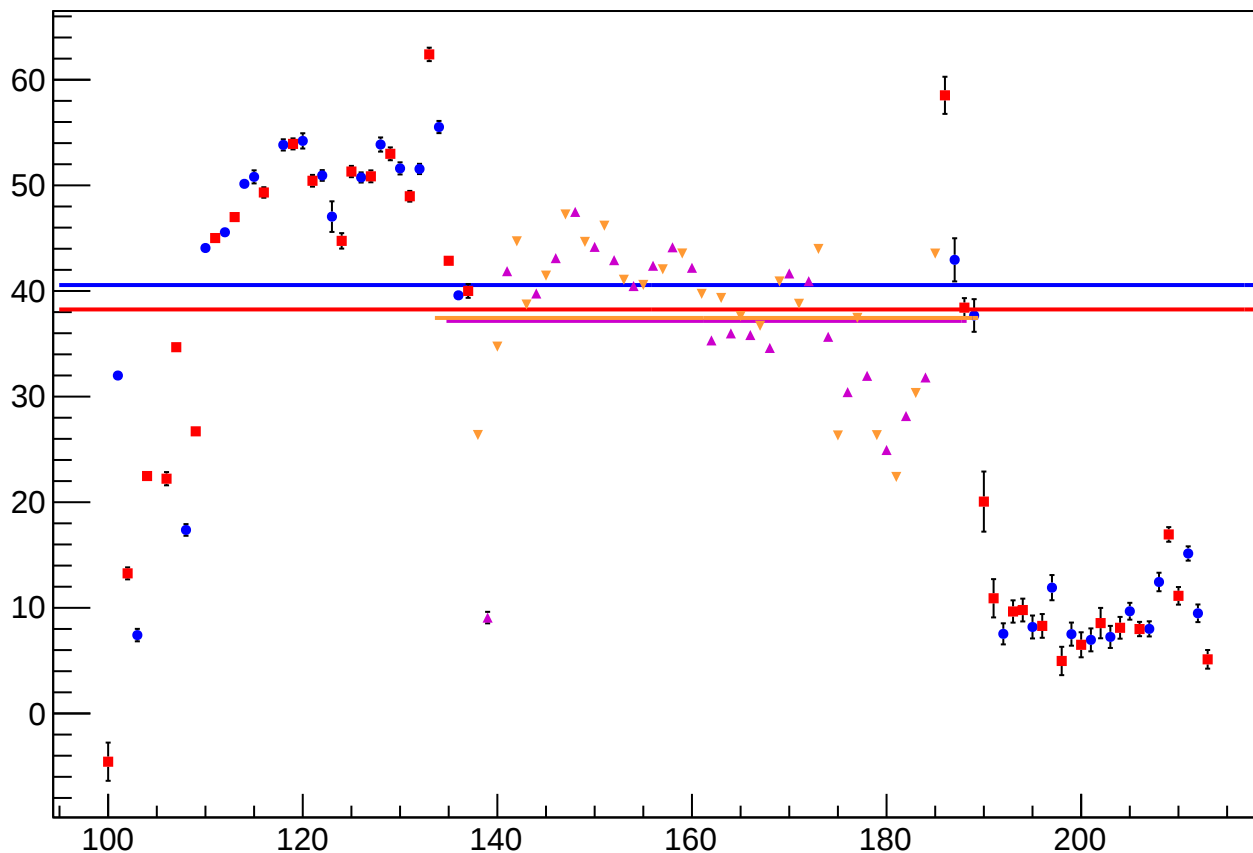
Right: -43.859 ± 0.065 $\chi^2/\text{NDF}: 42870.5/63$

In: -30.686 ± 0.048 $\chi^2/\text{NDF}: 86341.6/52$

Out: -31.707 ± 0.045 $\chi^2/\text{NDF}: 99131.7/58$

All: -31.223 ± 0.033 $\chi^2/\text{NDF}: 185712.8/111$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 40.562 $\pm$ 0.083 χ^2 /NDF: 24713.2/29

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 38.252 $\pm$ 0.077 χ^2 /NDF: 28937.3/33

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

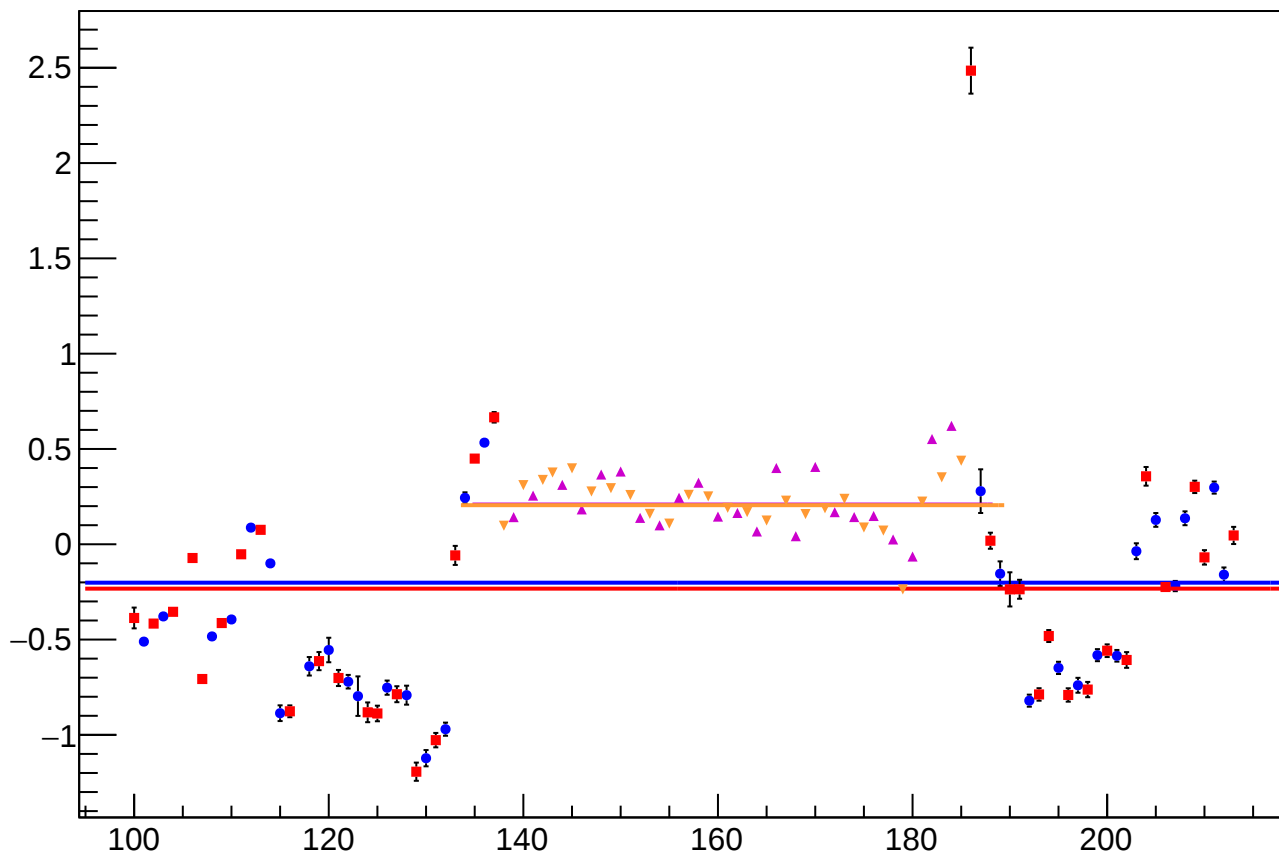
Right: 39.322 $\pm$ 0.056 χ^2 /NDF: 54069.6/63

In: 38.058 $\pm$ 0.042 χ^2 /NDF:43192.8/52

Out: 37.667 $\pm$ 0.040 χ^2 /NDF:50587.7/58

All: 37.852 $\pm$ 0.029 χ^2 /NDF: 93825.4/111

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.202 ± 0.004 χ^2/NDF : 8901.9/29

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.233 ± 0.004 χ^2/NDF : 9397.6/33

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

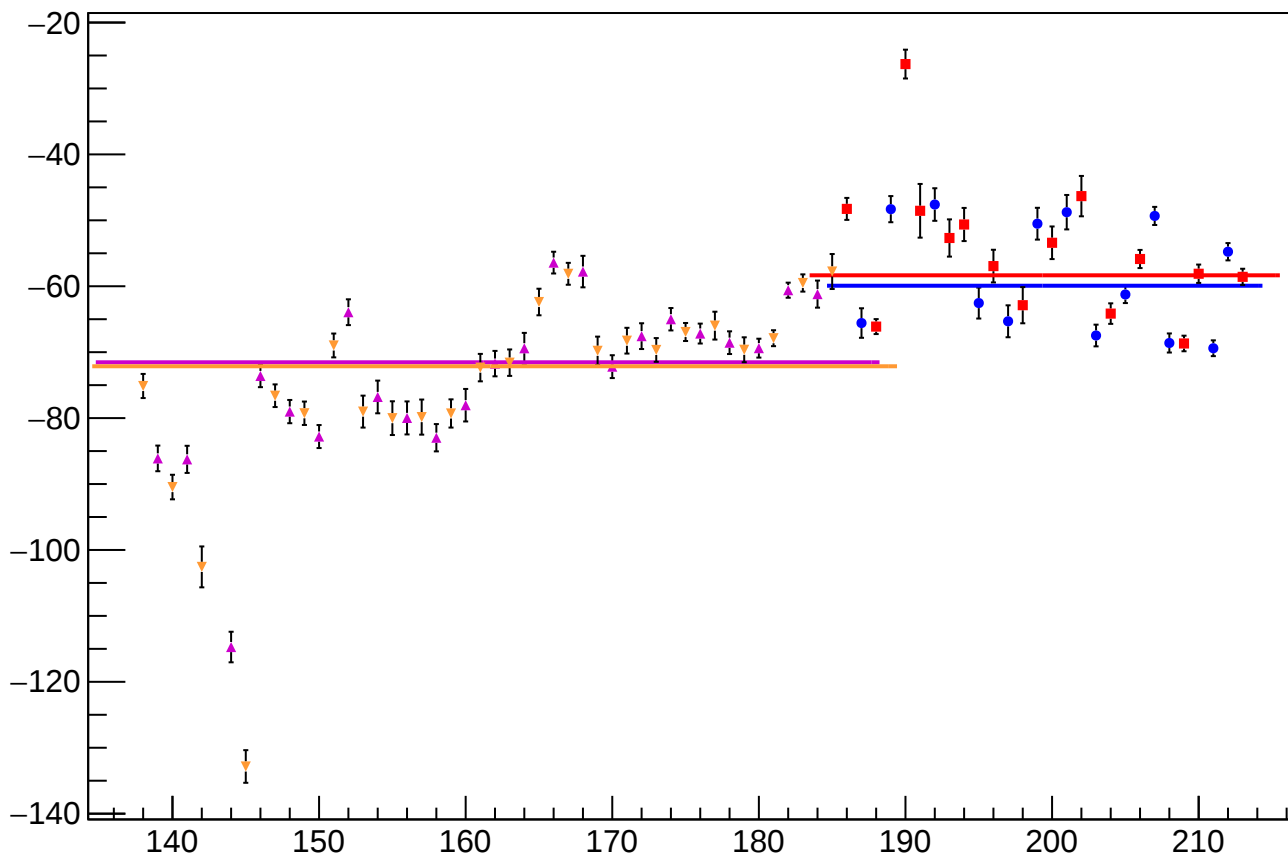
Right: -0.219 ± 0.003 χ^2/NDF : 18327.7/63

In: 0.122 ± 0.002 χ^2/NDF : 21000.5/52

Out: 0.103 ± 0.002 χ^2/NDF : 22649.2/58

All: 0.112 ± 0.001 χ^2/NDF : 43697.1/111

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -59.921 ± 0.470 χ^2/NDF : 300.8/12

Left Out: -72.138 ± 0.383 χ^2/NDF : 1121.3/23

Right Out: -58.340 ± 0.443 χ^2/NDF : 433.7/14

Left In: -71.534 ± 0.382 χ^2/NDF : 851.4/22

Left: -71.835 ± 0.270 χ^2/NDF : 1974.0/46

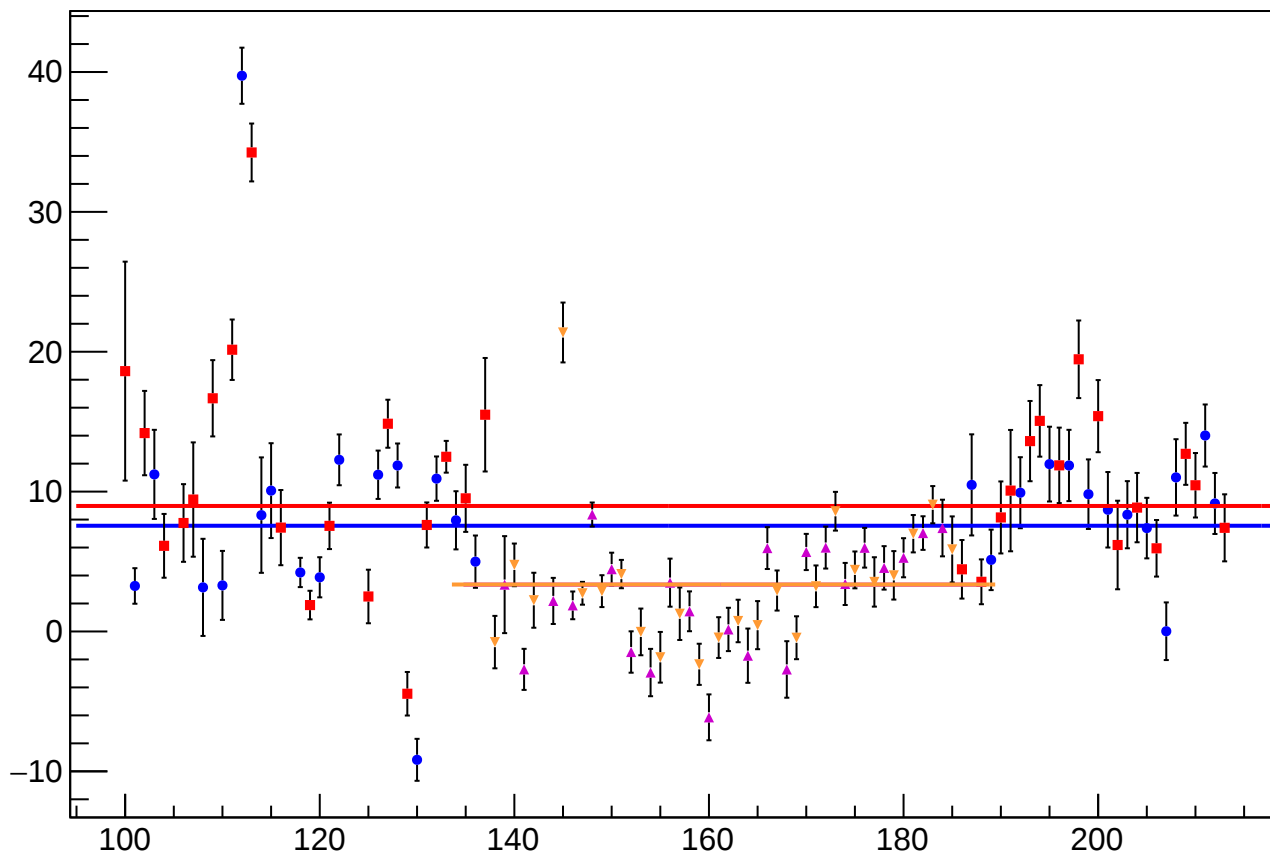
Right: -59.084 ± 0.322 χ^2/NDF : 740.5/27

In: -66.917 ± 0.296 χ^2/NDF : 1520.3/35

Out: -66.241 ± 0.290 χ^2/NDF : 2110.2/38

All: -66.572 ± 0.207 χ^2/NDF : 3633.1/74

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.558 ± 0.368 χ^2/NDF : 474.9/28

Left Out: 3.357 ± 0.295 χ^2/NDF : 167.7/23

Right Out: 8.973 ± 0.364 χ^2/NDF : 402.7/32

Left In: 3.349 ± 0.298 χ^2/NDF : 163.5/22

Left: 3.353 ± 0.210 χ^2/NDF : 331.2/46

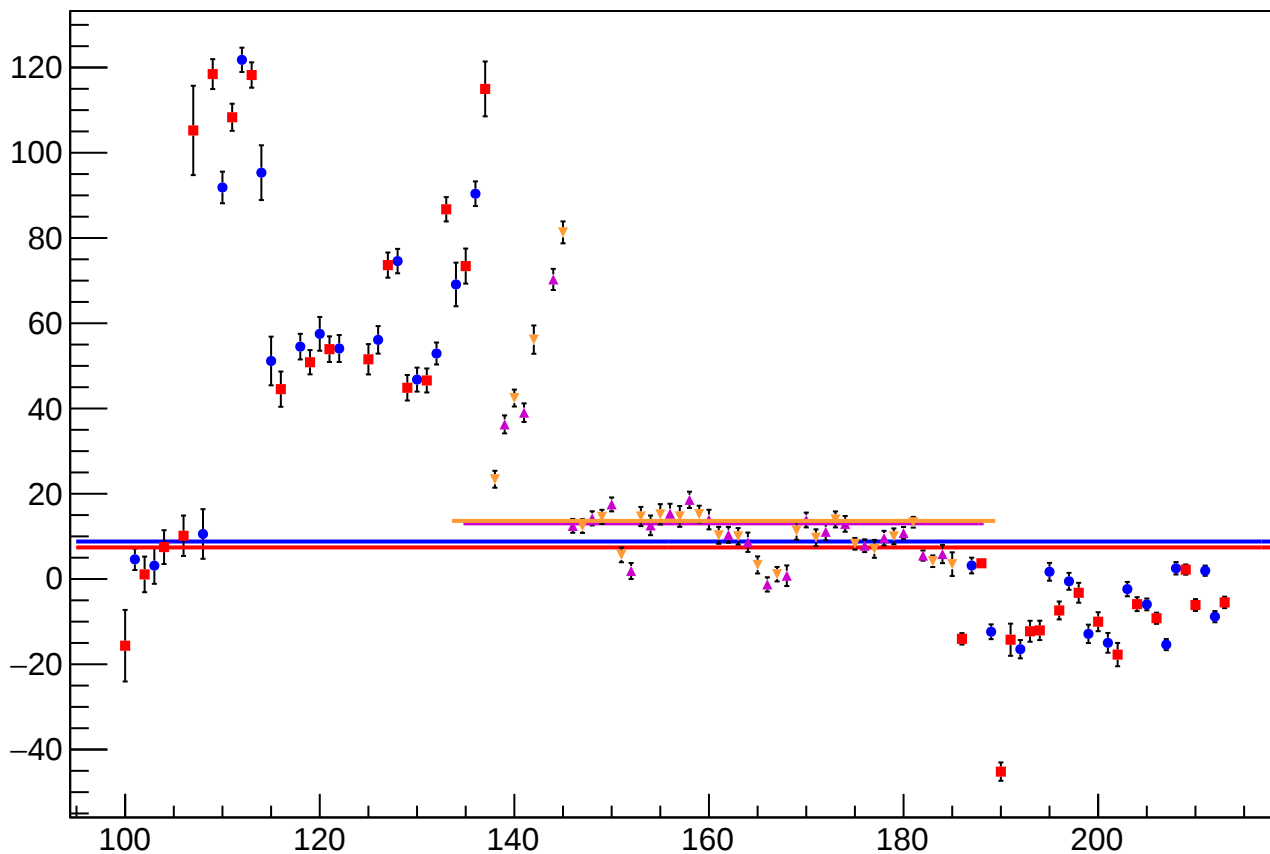
Right: 8.275 ± 0.259 χ^2/NDF : 885.1/61

In: 5.015 ± 0.232 χ^2/NDF : 717.3/51

Out: 5.583 ± 0.229 χ^2/NDF : 714.2/56

All: 5.303 ± 0.163 χ^2/NDF : 1434.6/108

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 8.799 ± 0.396 χ^2/NDF : 6320.9/28

Left Out: 13.632 ± 0.382 χ^2/NDF : 1300.0/23

Right Out: 7.410 ± 0.371 χ^2/NDF : 8051.2/32

Left In: 13.058 ± 0.380 χ^2/NDF : 1024.7/22

Left: 13.344 ± 0.269 χ^2/NDF : 2325.9/46

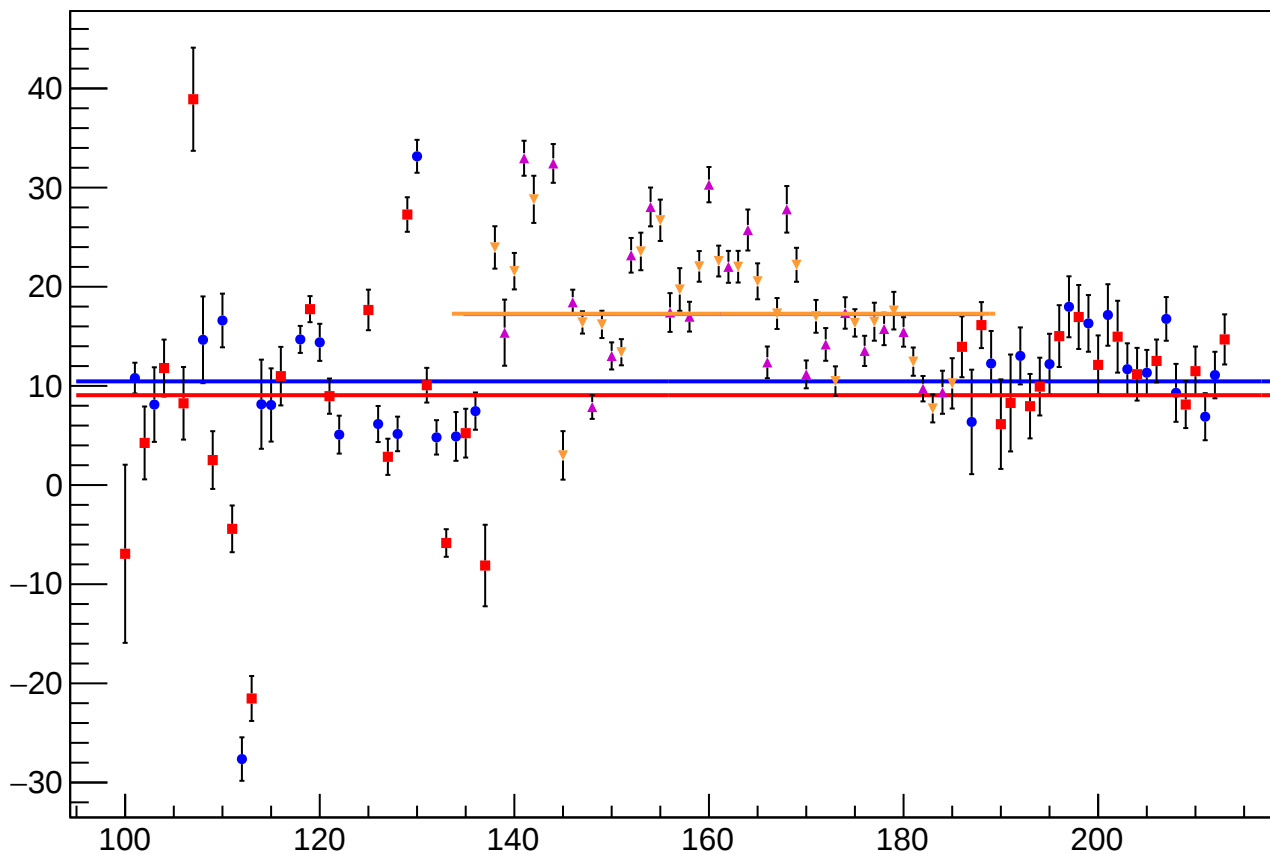
Right: 8.058 ± 0.271 χ^2/NDF : 14378.6/61

In: 11.019 ± 0.274 χ^2/NDF : 7405.8/51

Out: 10.430 ± 0.266 χ^2/NDF : 9487.9/56

All: 10.716 ± 0.191 χ^2/NDF : 16896.1/108

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.457 $\pm$ 0.423 χ^2 /NDF: 578.7/28

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF:243.9/23

Right Out: 9.065 $\pm$ 0.423 χ^2 /NDF: 611.4/32

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

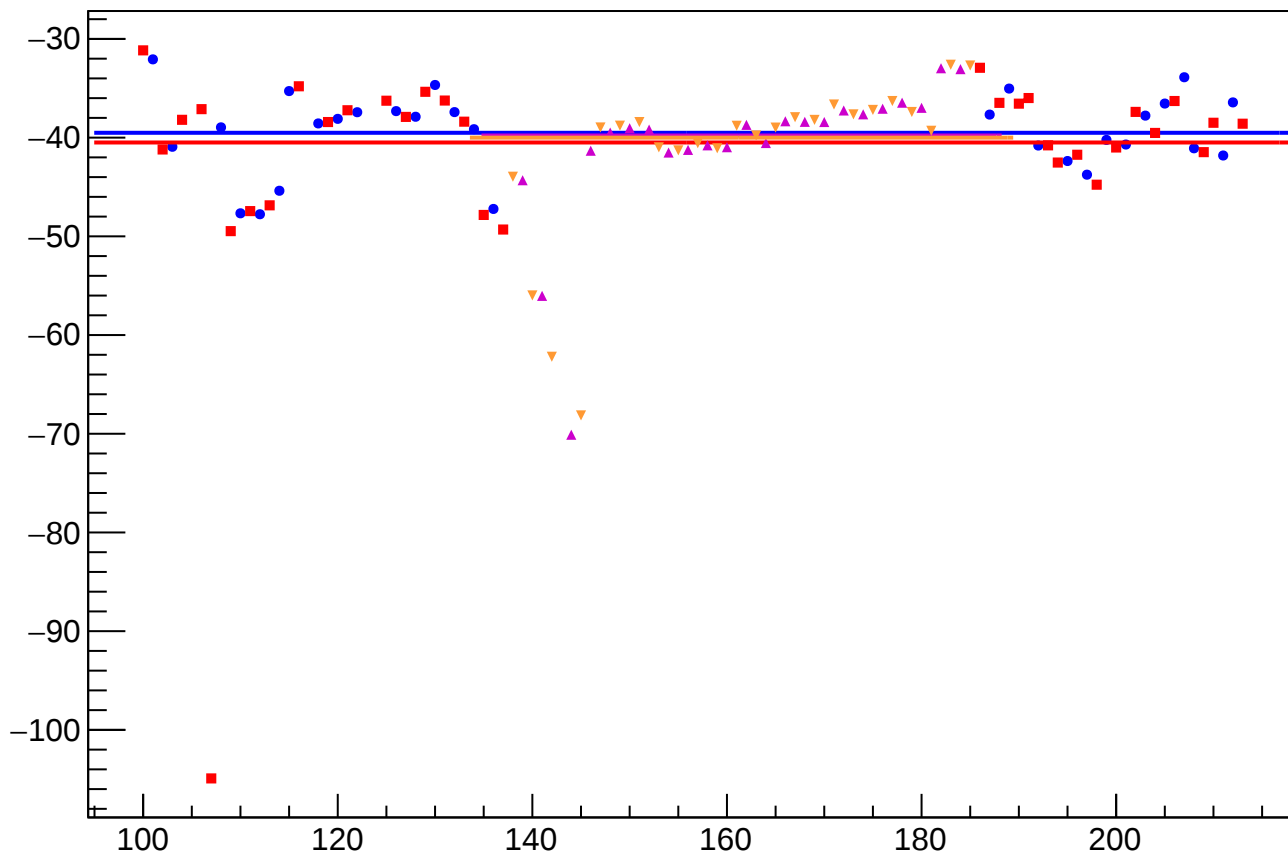
Right: 9.760 $\pm$ 0.299 χ^2 /NDF: 1195.5/61

In: 14.587 $\pm$ 0.265 χ^2 /NDF:1176.1/51

Out: 14.088 $\pm$ 0.264 χ^2 /NDF:1086.0/56

All: 14.336 $\pm$ 0.187 χ^2 /NDF: 2263.9/108

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.509 ± 0.021 χ^2/NDF : 37763.0/28

Left Out: -39.999 ± 0.016 χ^2/NDF : 172263.8/23

Right Out: -40.492 ± 0.021 χ^2/NDF : 107336.9/32

Left In: -39.785 ± 0.016 χ^2/NDF : 144494.5/22

Left: -39.891 ± 0.011 χ^2/NDF : 316851.8/46

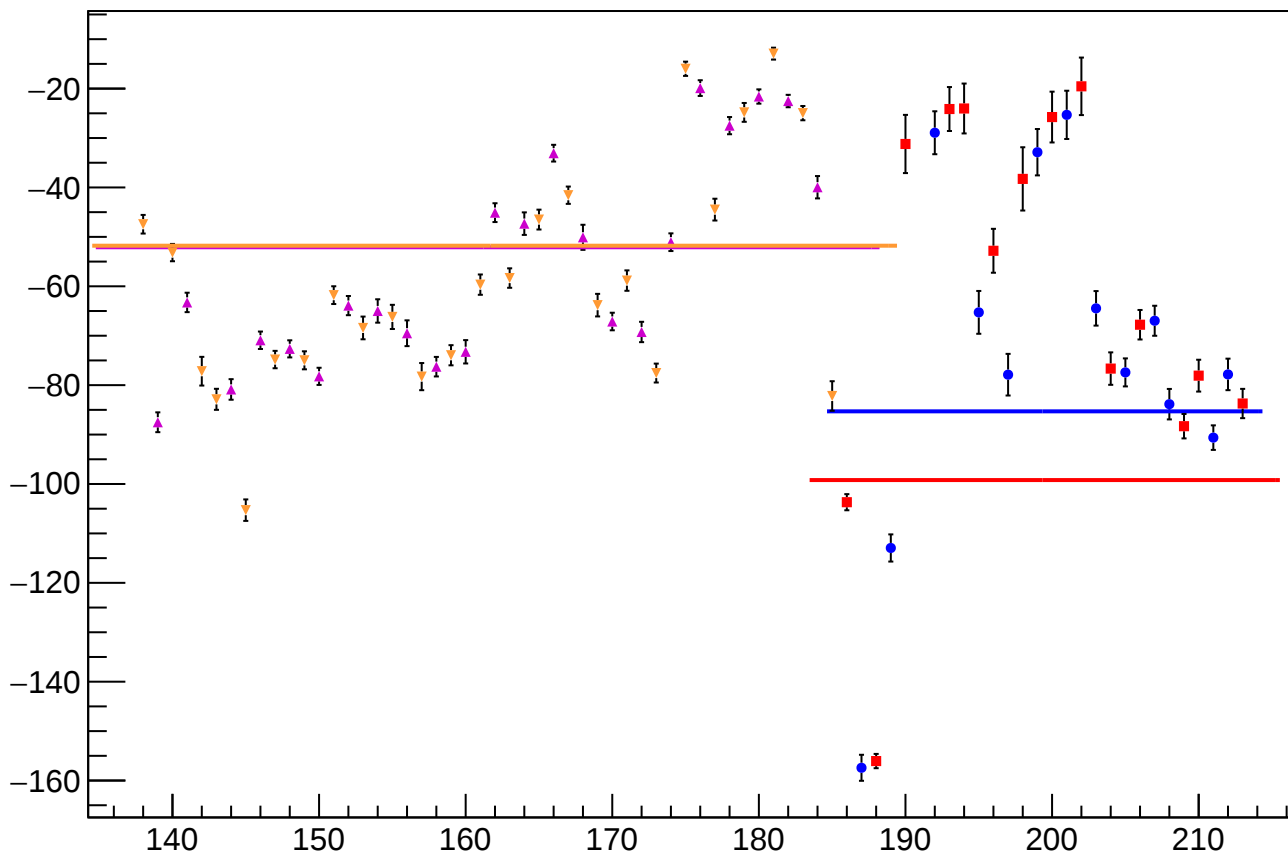
Right: -40.010 ± 0.015 χ^2/NDF : 146221.6/61

In: -39.686 ± 0.013 χ^2/NDF : 182368.4/51

Out: -40.182 ± 0.012 χ^2/NDF : 279962.9/56

All: -39.935 ± 0.009 χ^2/NDF : 463115.0/108

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -85.301 ± 0.910 $\chi^2/\text{NDF}: 1410.8/12$

Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$

Right Out: -99.205 ± 0.768 $\chi^2/\text{NDF}: 3033.7/13$

Left In: -52.104 ± 0.389 $\chi^2/\text{NDF}: 3280.2/22$

Left: -51.943 ± 0.273 $\chi^2/\text{NDF}: 7445.3/47$

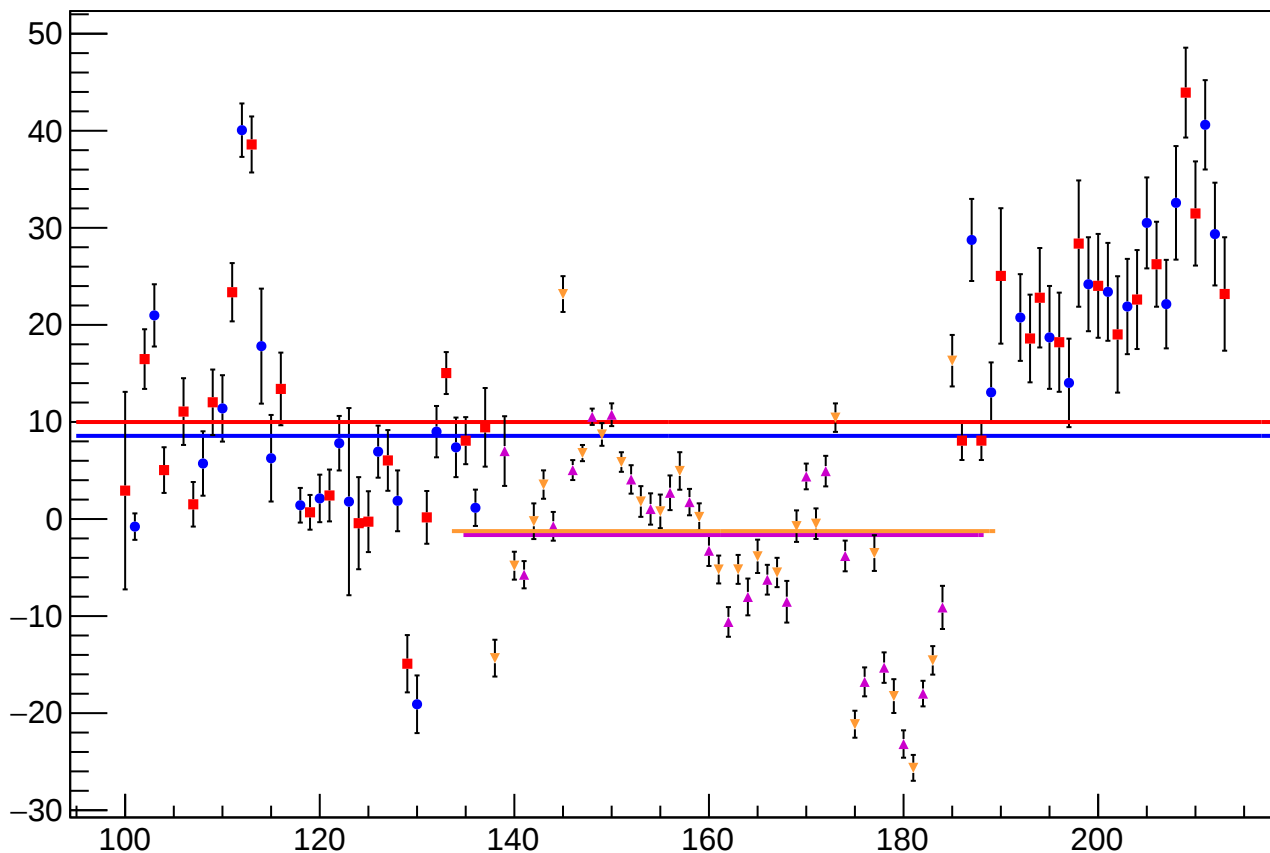
Right: -93.421 ± 0.587 $\chi^2/\text{NDF}: 4580.8/26$

In: -57.224 ± 0.357 $\chi^2/\text{NDF}: 5816.1/35$

Out: -61.212 ± 0.342 $\chi^2/\text{NDF}: 10251.3/38$

All: -59.303 ± 0.247 $\chi^2/\text{NDF}: 16132.3/74$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.566 ± 0.563 $\chi^2/\text{NDF}: 503.5/29$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 9.993 ± 0.551 $\chi^2/\text{NDF}: 415.7/32$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

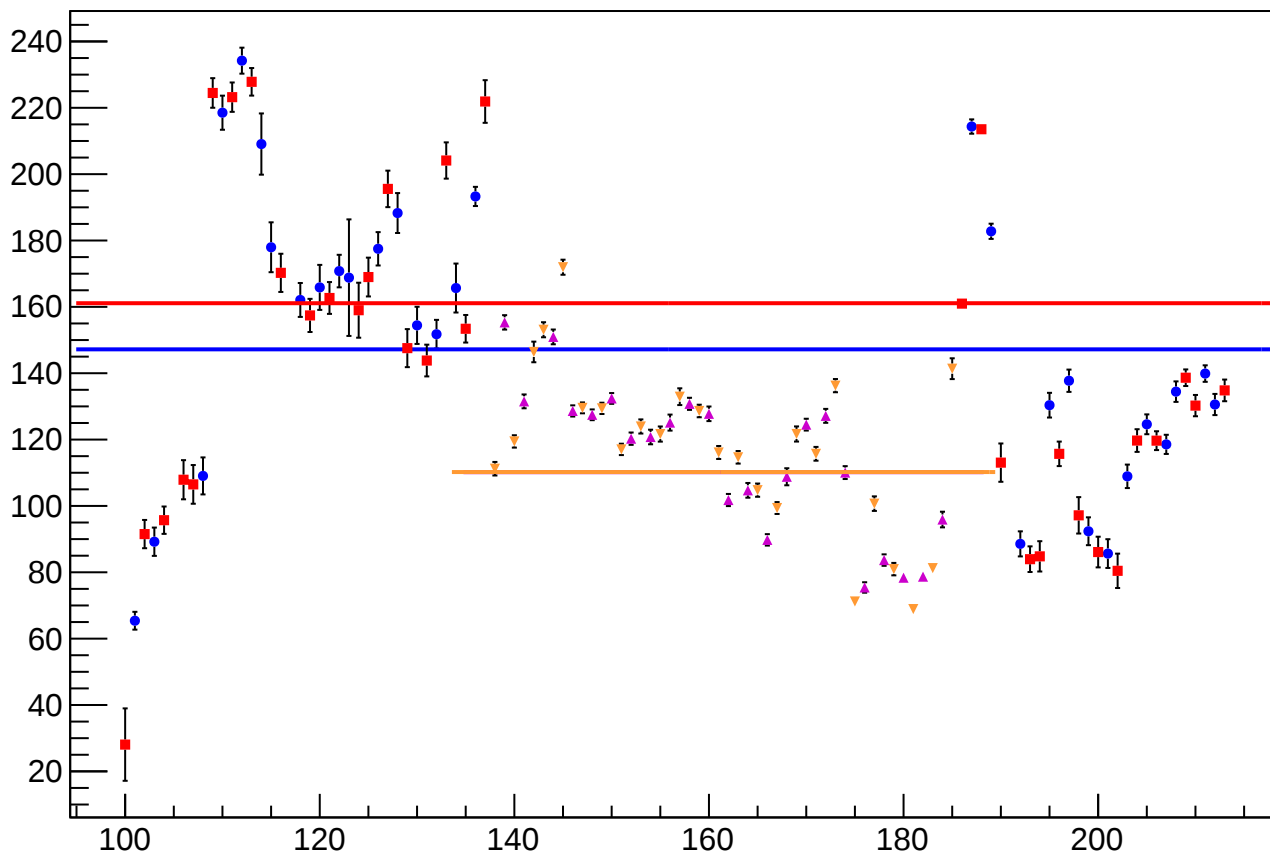
Right: 9.295 ± 0.394 $\chi^2/\text{NDF}: 922.5/62$

In: 0.611 ± 0.265 $\chi^2/\text{NDF}: 1852.2/52$

Out: 1.214 ± 0.258 $\chi^2/\text{NDF}: 2063.1/57$

All: 0.920 ± 0.185 $\chi^2/\text{NDF}: 3917.9/110$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 147.196 $\pm$ 0.678 χ^2 /NDF: 4467.3/29

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 161.101 $\pm$ 0.583 χ^2 /NDF: 5888.2/32

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

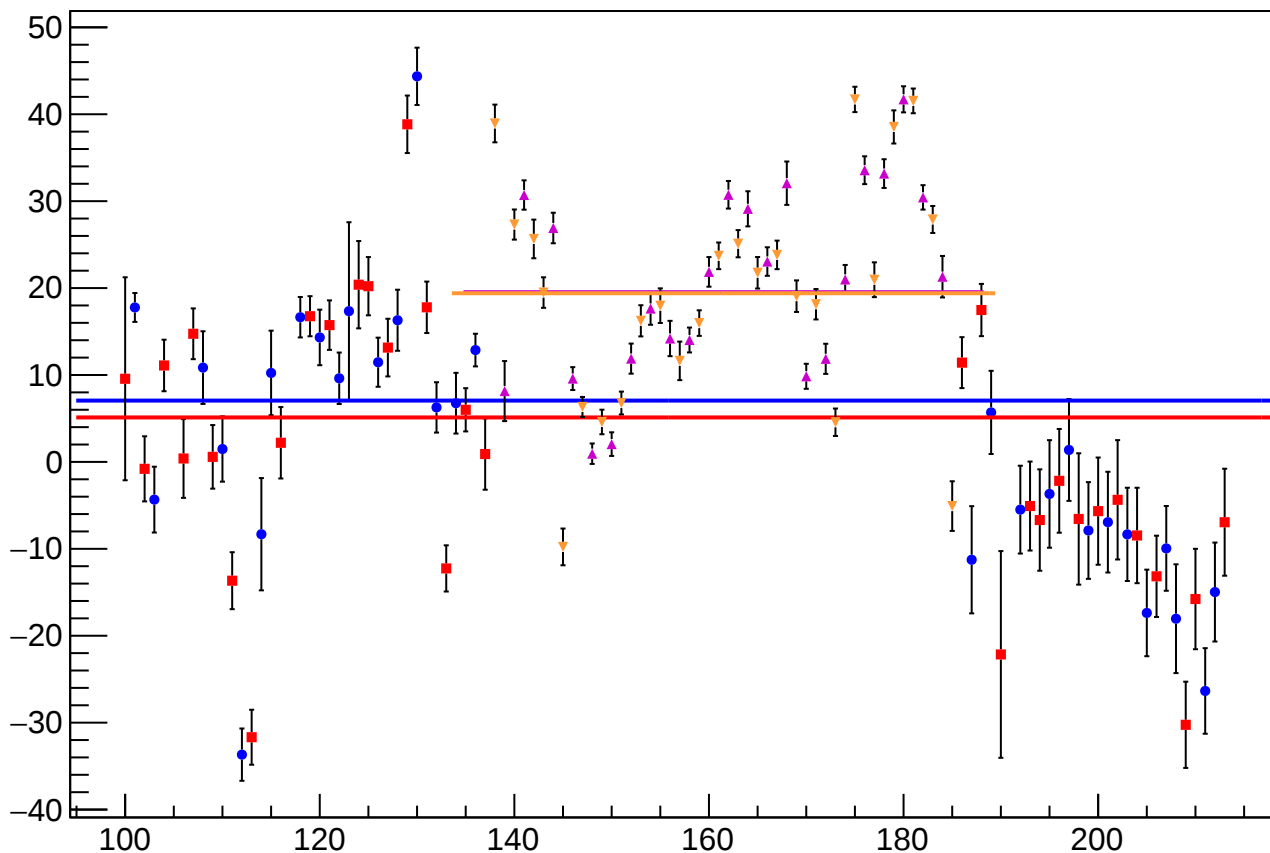
Right: 155.195 $\pm$ 0.442 χ^2 /NDF: 10597.5/62

In: 119.232 $\pm$ 0.335 χ^2 /NDF:10421.7/52

Out: 125.514 $\pm$ 0.319 χ^2 /NDF:15816.7/57

All: 122.526 $\pm$ 0.231 χ^2 /NDF: 26422.3/110

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 7.056 ± 0.650 χ^2/NDF : 567.7/29

Left Out: 19.405 ± 0.335 χ^2/NDF : 1453.4/24

Right Out: 5.117 ± 0.652 χ^2/NDF : 562.6/32

Left In: 19.530 ± 0.342 χ^2/NDF : 1181.3/22

Left: 19.466 ± 0.239 χ^2/NDF : 2634.8/47

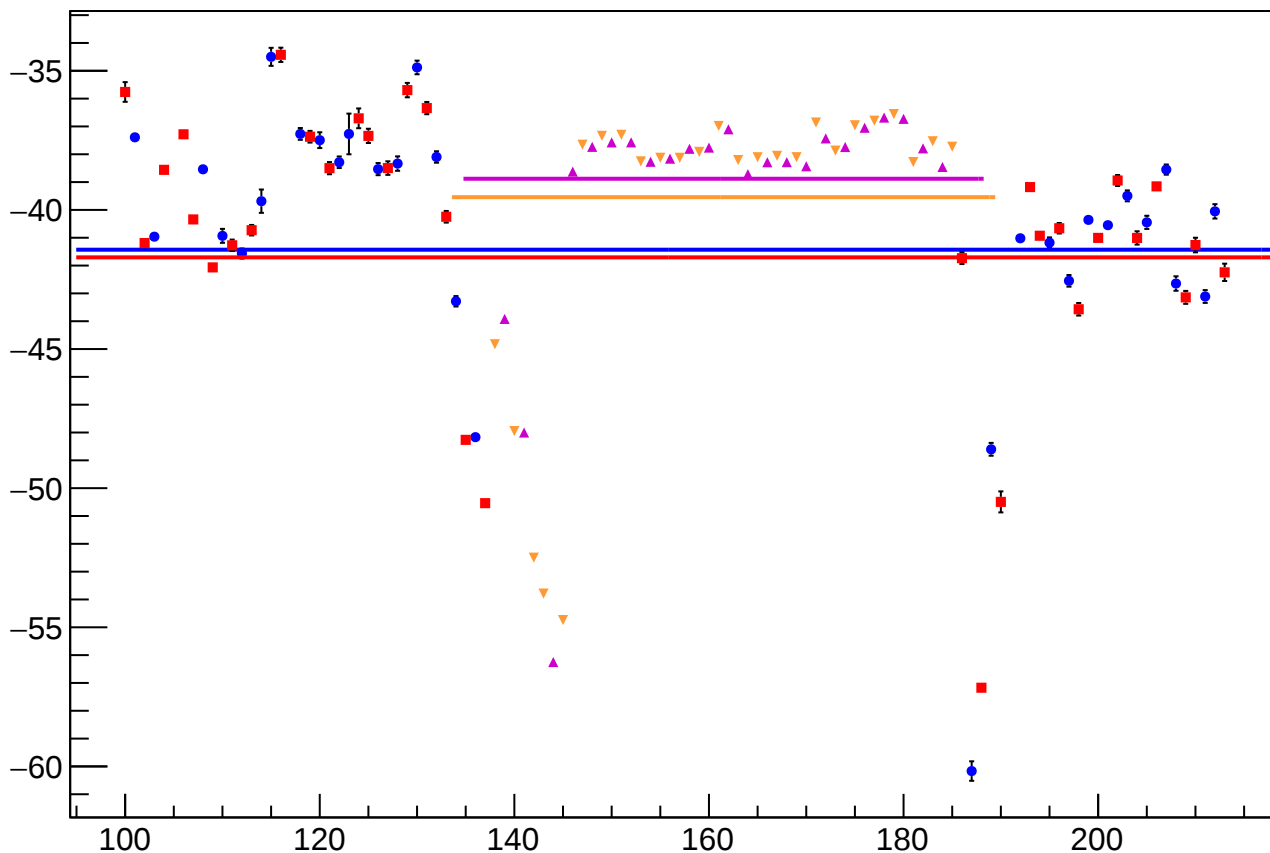
Right: 6.089 ± 0.460 χ^2/NDF : 1134.7/62

In: 16.820 ± 0.303 χ^2/NDF : 2037.3/52

Out: 16.423 ± 0.298 χ^2/NDF : 2396.4/57

All: 16.618 ± 0.212 χ^2/NDF : 4434.6/110

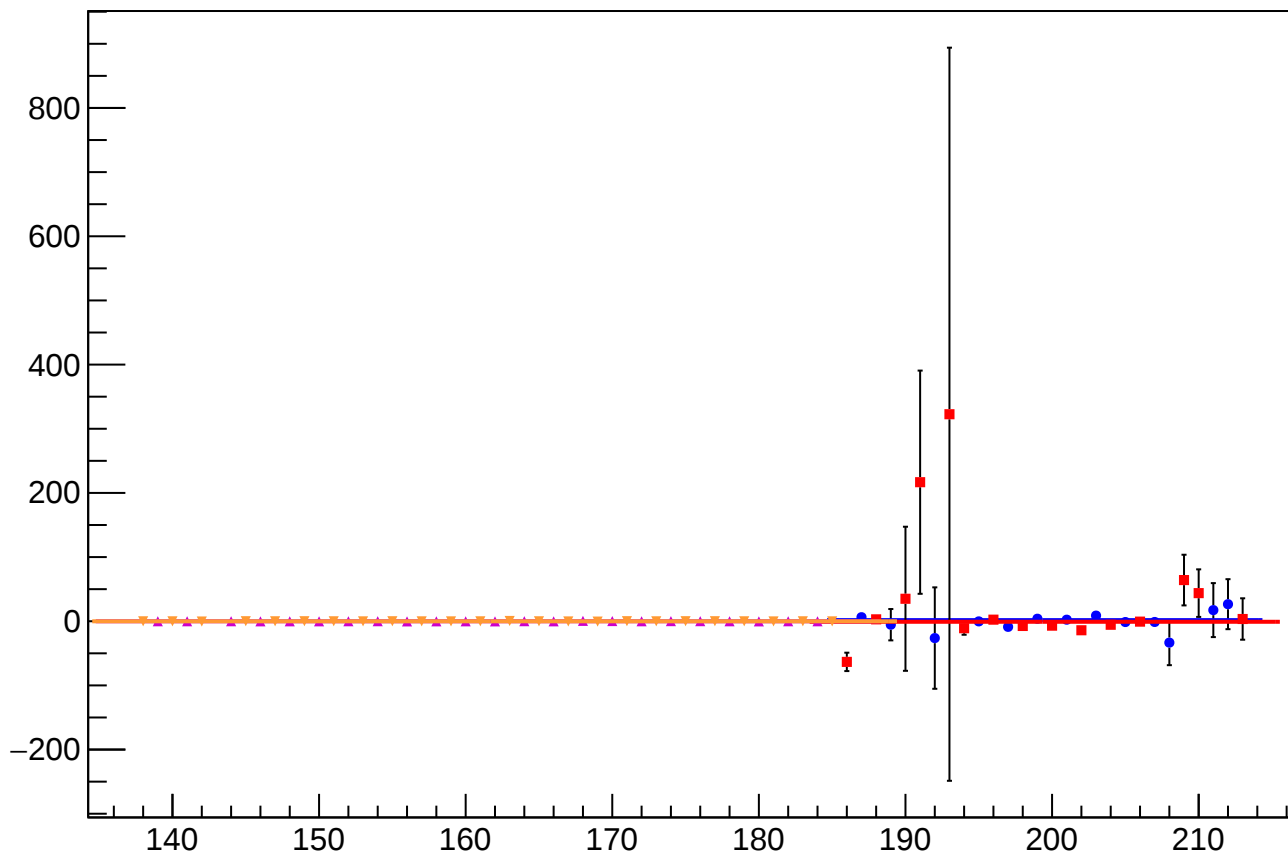
reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.429 ± 0.032 $\chi^2/\text{NDF}: 16922.8/29$
 Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$
 Right Out: -41.705 ± 0.031 $\chi^2/\text{NDF}: 23113.8/32$
 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: -41.569 ± 0.022 $\chi^2/\text{NDF}: 40074.5/62$
 In: -39.387 ± 0.014 $\chi^2/\text{NDF}: 75466.4/52$
 Out: -39.974 ± 0.014 $\chi^2/\text{NDF}: 118919.2/57$
 All: -39.683 ± 0.010 $\chi^2/\text{NDF}: 195250.4/110$

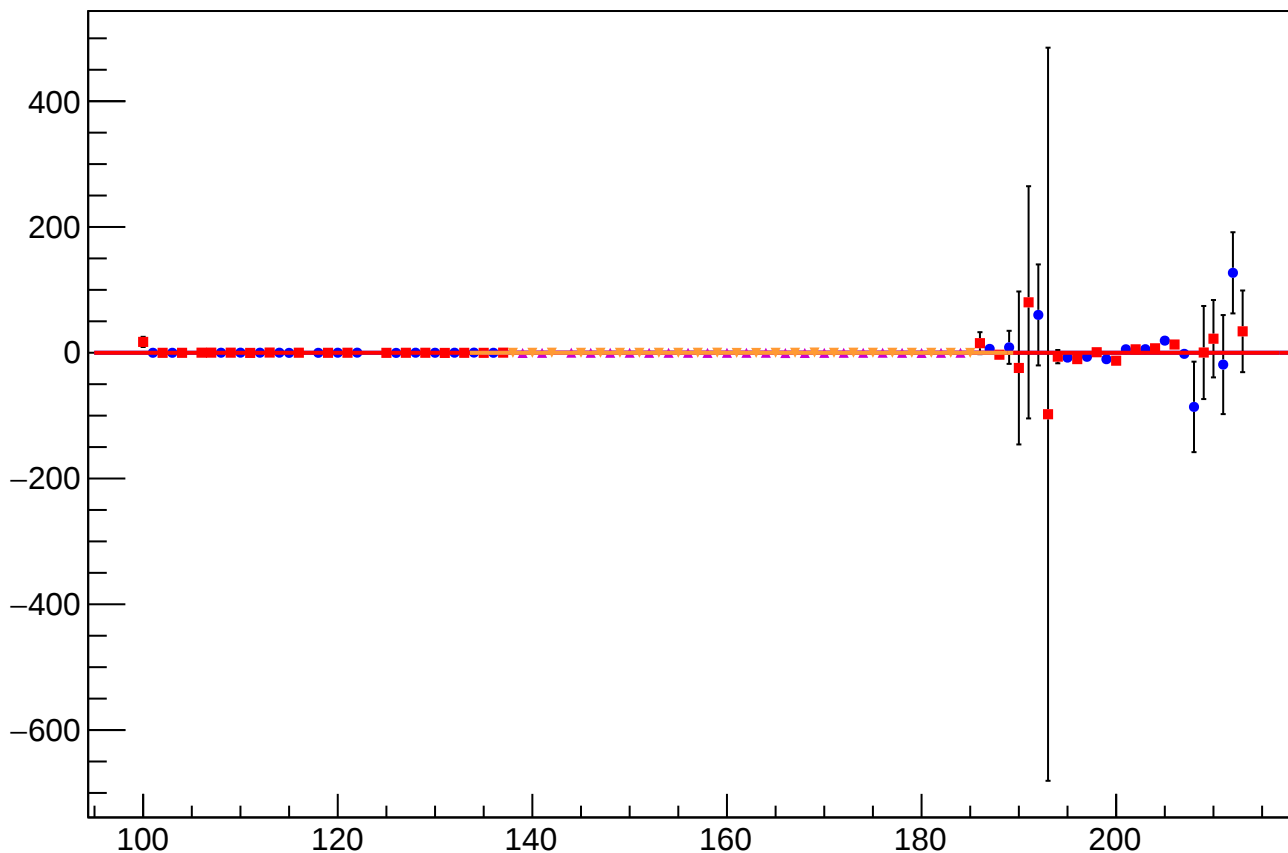
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.755 ± 1.534 $\chi^2/\text{NDF}: 12.8/12$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.836 ± 1.419 $\chi^2/\text{NDF}: 36.7/14$
 Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.057 ± 0.016 $\chi^2/\text{NDF}: 77.1/46$
 Right: 0.358 ± 1.041 $\chi^2/\text{NDF}: 51.0/27$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 47.4/35$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 76.7/38$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 128.2/74$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 37.3/28

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 41.5/32

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

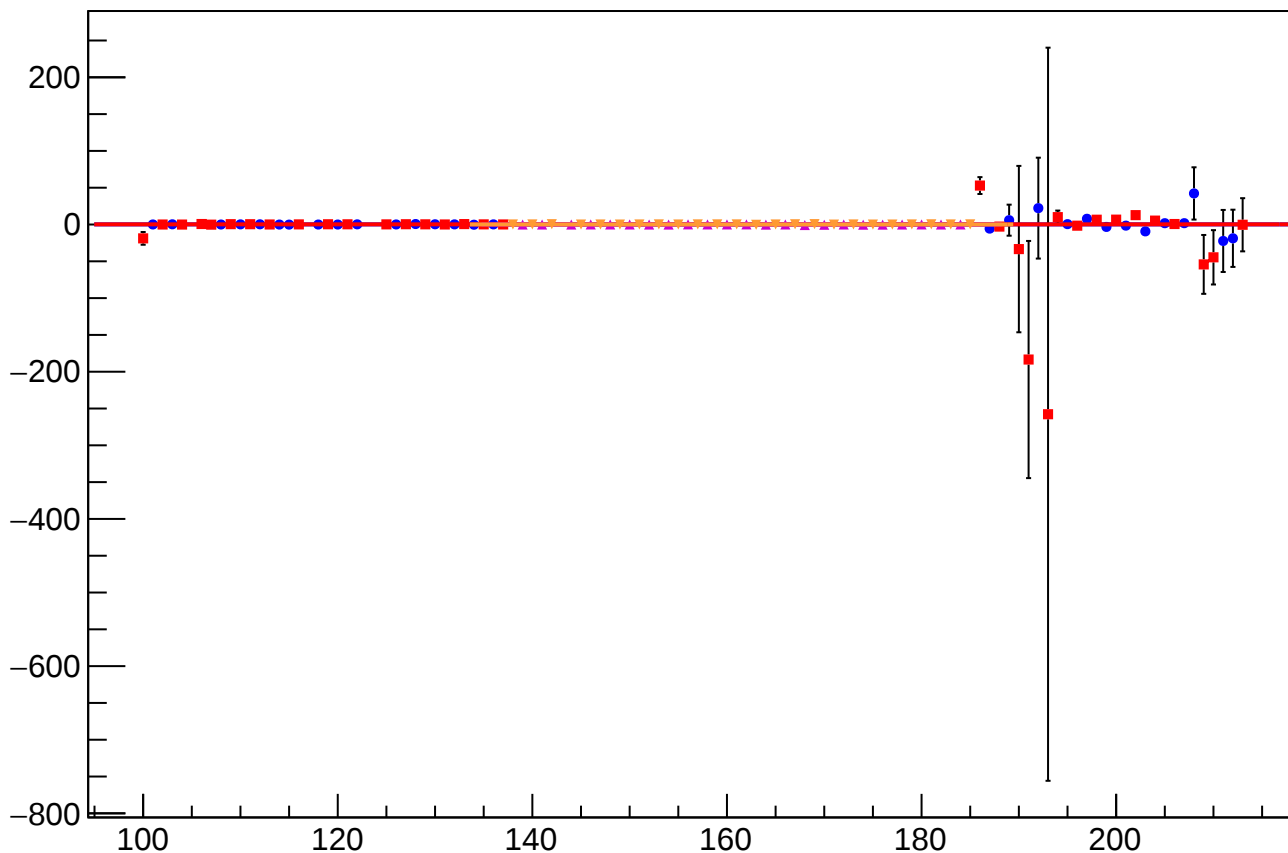
Right: -0.025 ± 0.020 χ^2/NDF : 80.2/61

In: -0.038 ± 0.015 χ^2/NDF : 71.2/51

Out: -0.073 ± 0.015 χ^2/NDF : 68.1/56

All: -0.056 ± 0.011 χ^2/NDF : 142.1/108

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 29.1/28

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 60.3/32

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

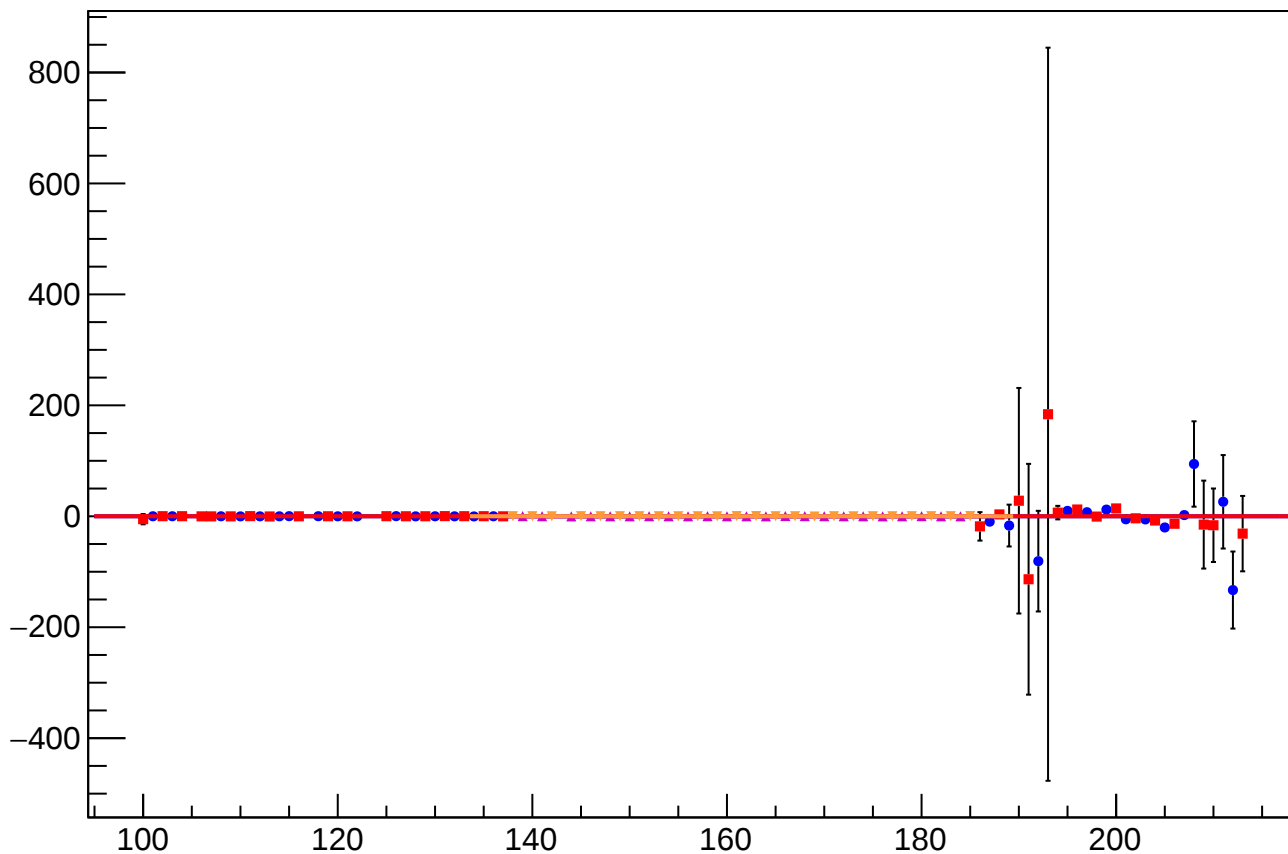
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 90.1/61

In: 0.043 $\pm$ 0.020 χ^2 /NDF:71.7/51

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:105.7/56

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 181.8/108

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 38.7/28

Left Out: 0.105 ± 0.020 χ^2/NDF : 29.5/23

Right Out: 0.057 ± 0.034 χ^2/NDF : 34.9/32

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.088 ± 0.014 χ^2/NDF : 62.5/46

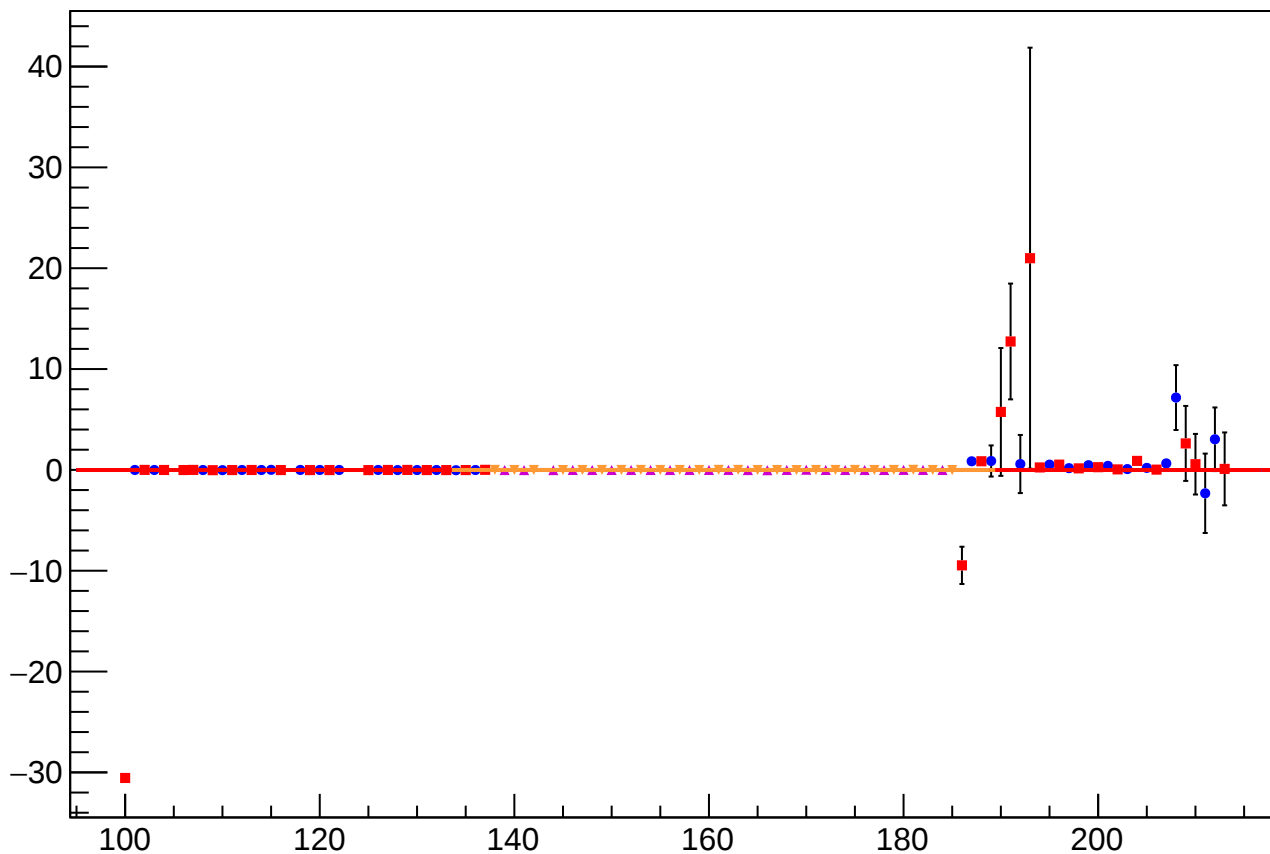
Right: 0.024 ± 0.024 χ^2/NDF : 75.4/61

In: 0.049 ± 0.017 χ^2/NDF : 74.0/51

Out: 0.093 ± 0.017 χ^2/NDF : 65.9/56

All: 0.071 ± 0.012 χ^2/NDF : 143.2/108

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 $\chi^2/\text{NDF}: 47.9/28$

Left Out: -0.008 ± 0.001 $\chi^2/\text{NDF}: 30.1/23$

Right Out: -0.012 ± 0.002 $\chi^2/\text{NDF}: 11954.9/32$

Left In: -0.009 ± 0.001 $\chi^2/\text{NDF}: 40.8/22$

Left: -0.008 ± 0.001 $\chi^2/\text{NDF}: 71.4/46$

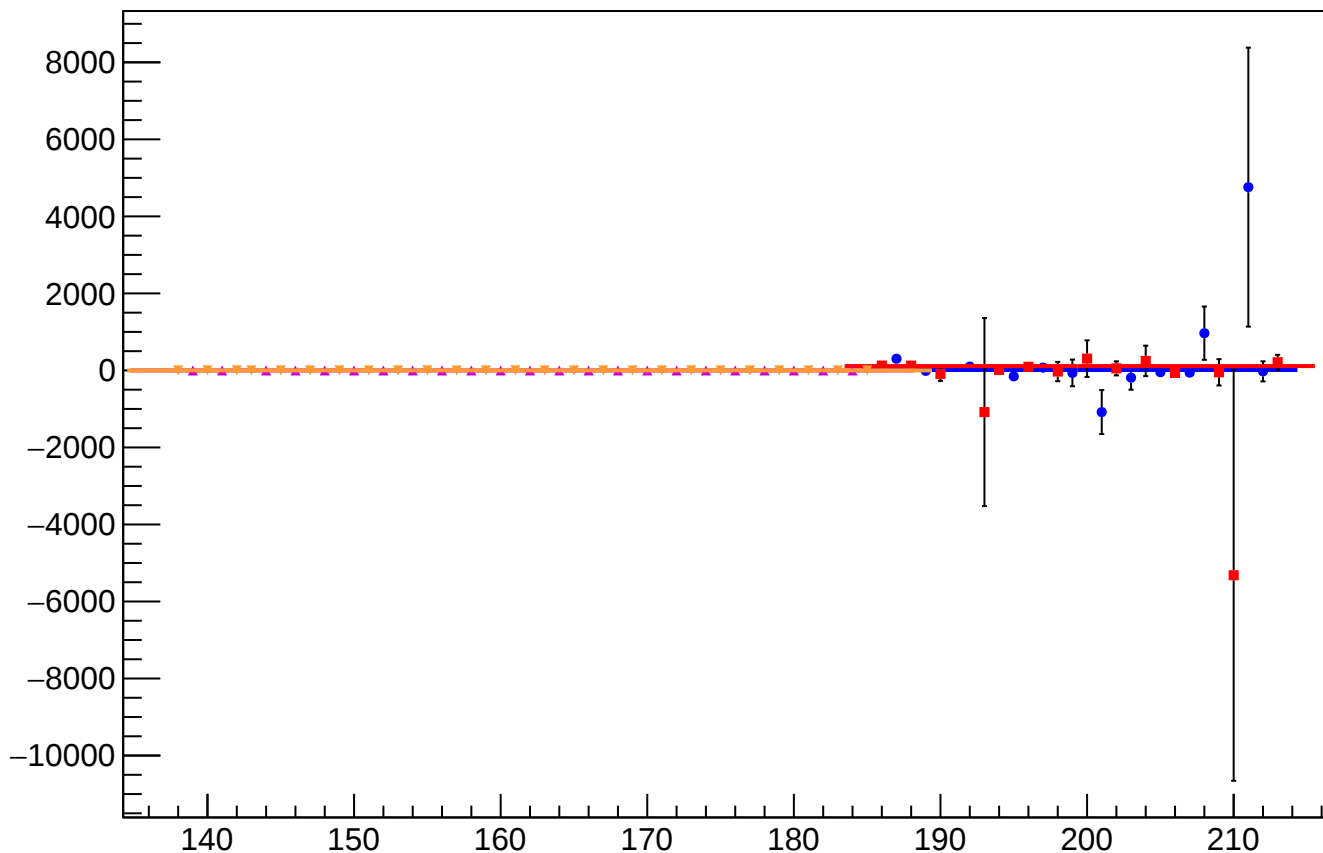
Right: -0.012 ± 0.001 $\chi^2/\text{NDF}: 12002.7/61$

In: -0.009 ± 0.001 $\chi^2/\text{NDF}: 90.8/51$

Out: -0.009 ± 0.001 $\chi^2/\text{NDF}: 11988.8/56$

All: -0.009 ± 0.001 $\chi^2/\text{NDF}: 12079.9/108$

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.783+/-25.909 χ^2/NDF : 23.9/12

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 113.239+/-16.110 χ^2/NDF : 8.8/13

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

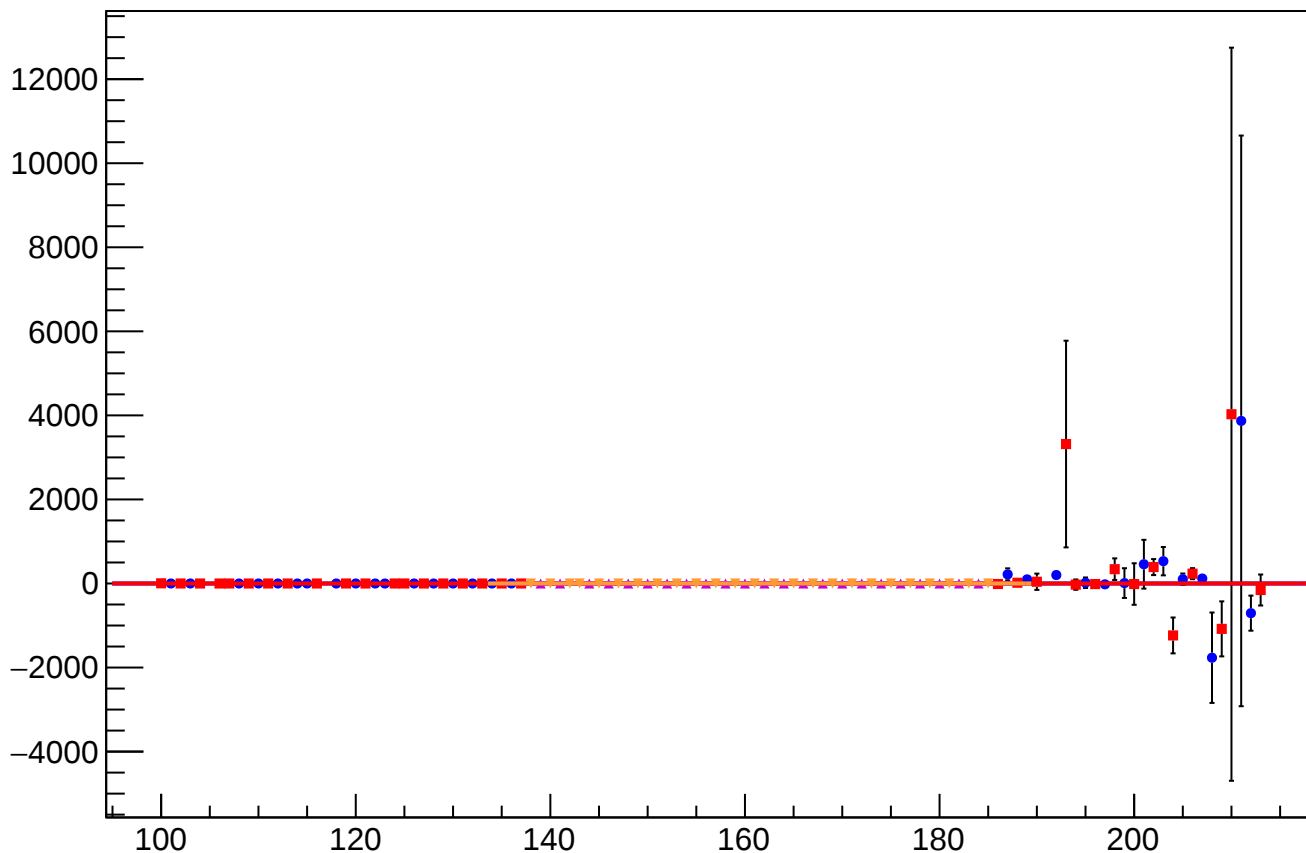
Right: 84.950+/-13.681 χ^2/NDF : 43.8/26

In: 0.002+/-0.028 χ^2/NDF :53.2/35

Out: 0.018+/-0.027 χ^2/NDF :89.1/38

All: 0.010+/-0.019 χ^2/NDF : 142.5/74

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 44.9/29$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 41.4/32$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

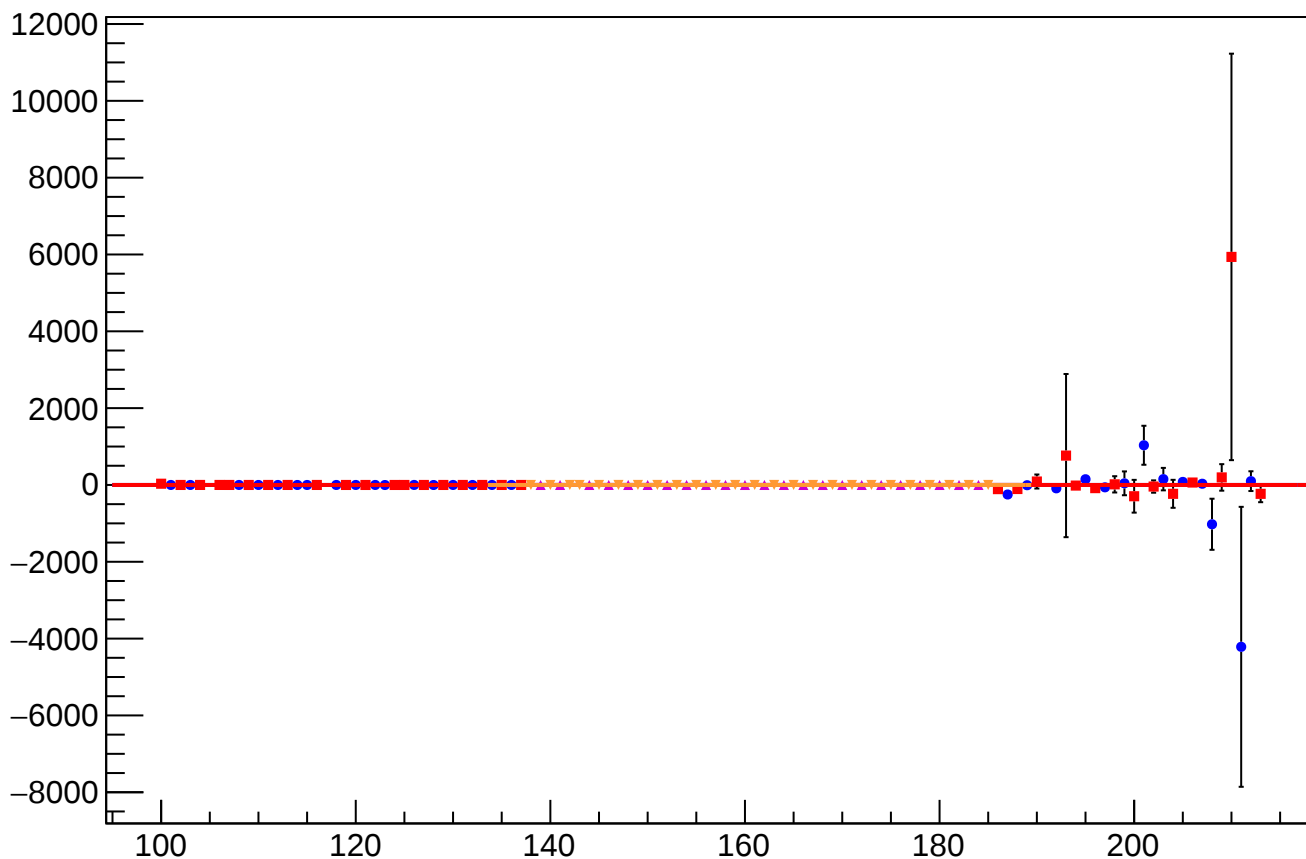
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 89.6/62$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 95.2/52$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 67.9/57$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 163.4/110$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 50.0/29$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 81.8/32$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

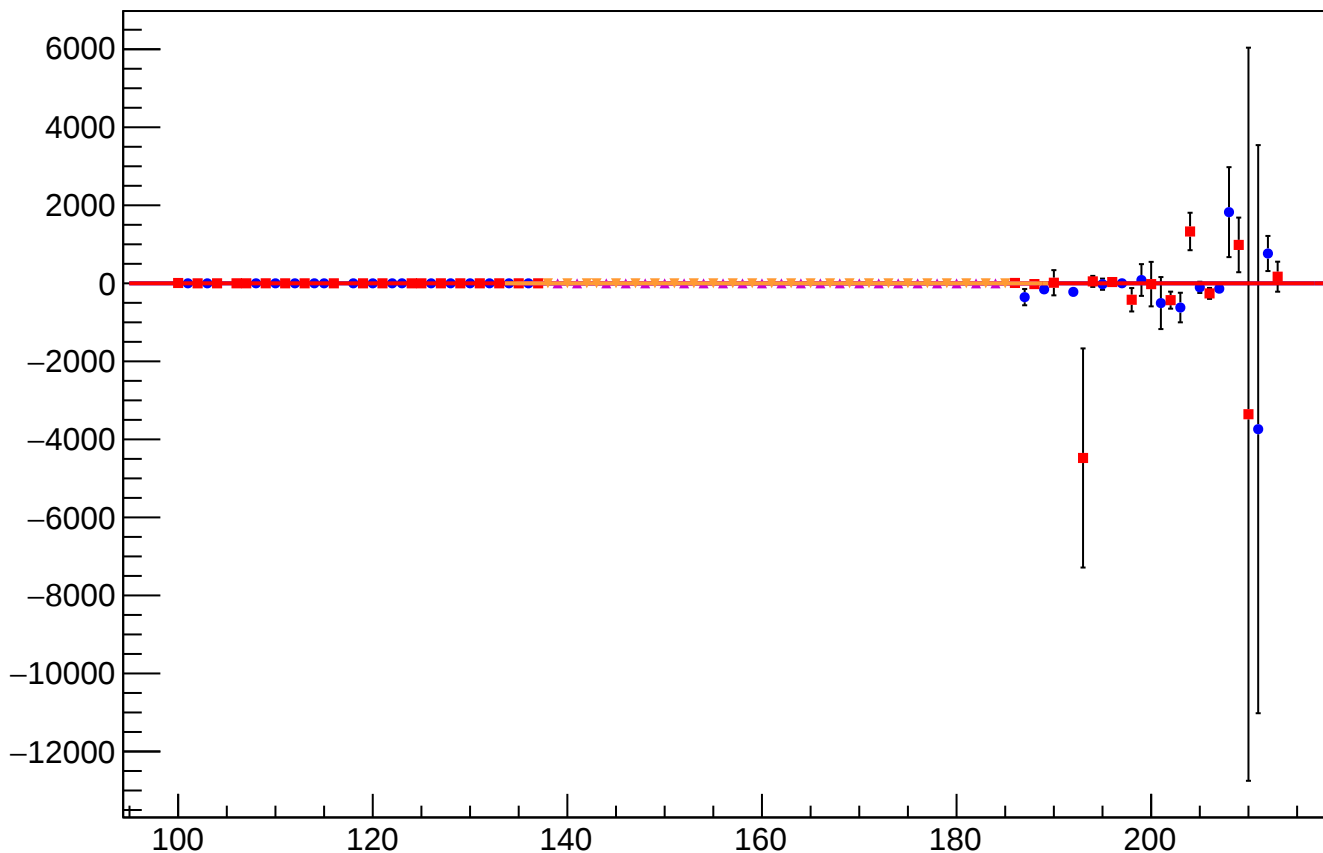
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 131.9/62$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 80.4/52$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 114.7/57$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 195.2/110$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 43.7/29

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 38.9/32

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

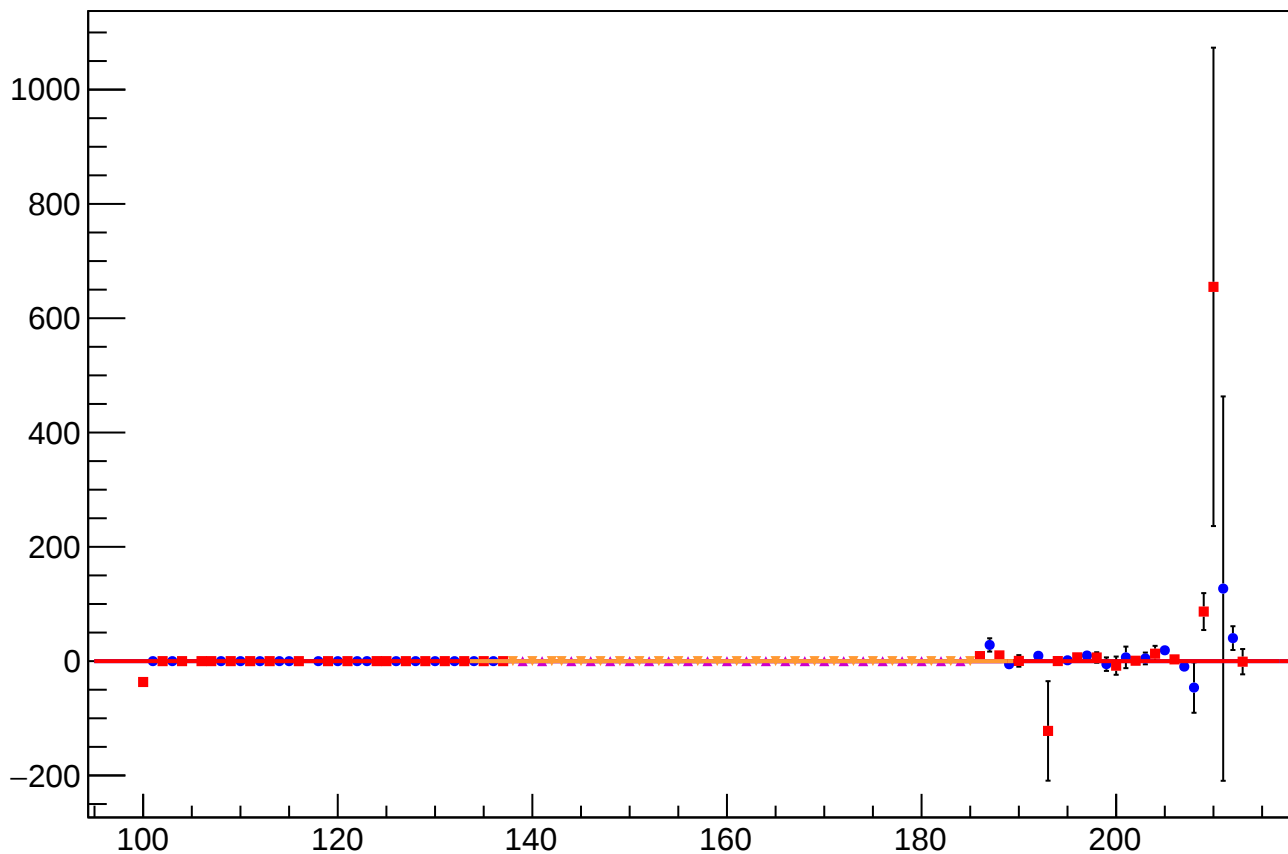
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 86.7/62

In: 0.056 $\pm$ 0.021 χ^2 /NDF:96.6/52

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:66.0/57

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 163.3/110

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001+/-0.002 χ^2/NDF : 67.9/29

Left Out: 0.008+/-0.001 χ^2/NDF : 26.3/24

Right Out: 0.001+/-0.002 χ^2/NDF : 10484.0/32

Left In: 0.009+/-0.001 χ^2/NDF : 15.0/22

Left: 0.009+/-0.001 χ^2/NDF : 41.4/47

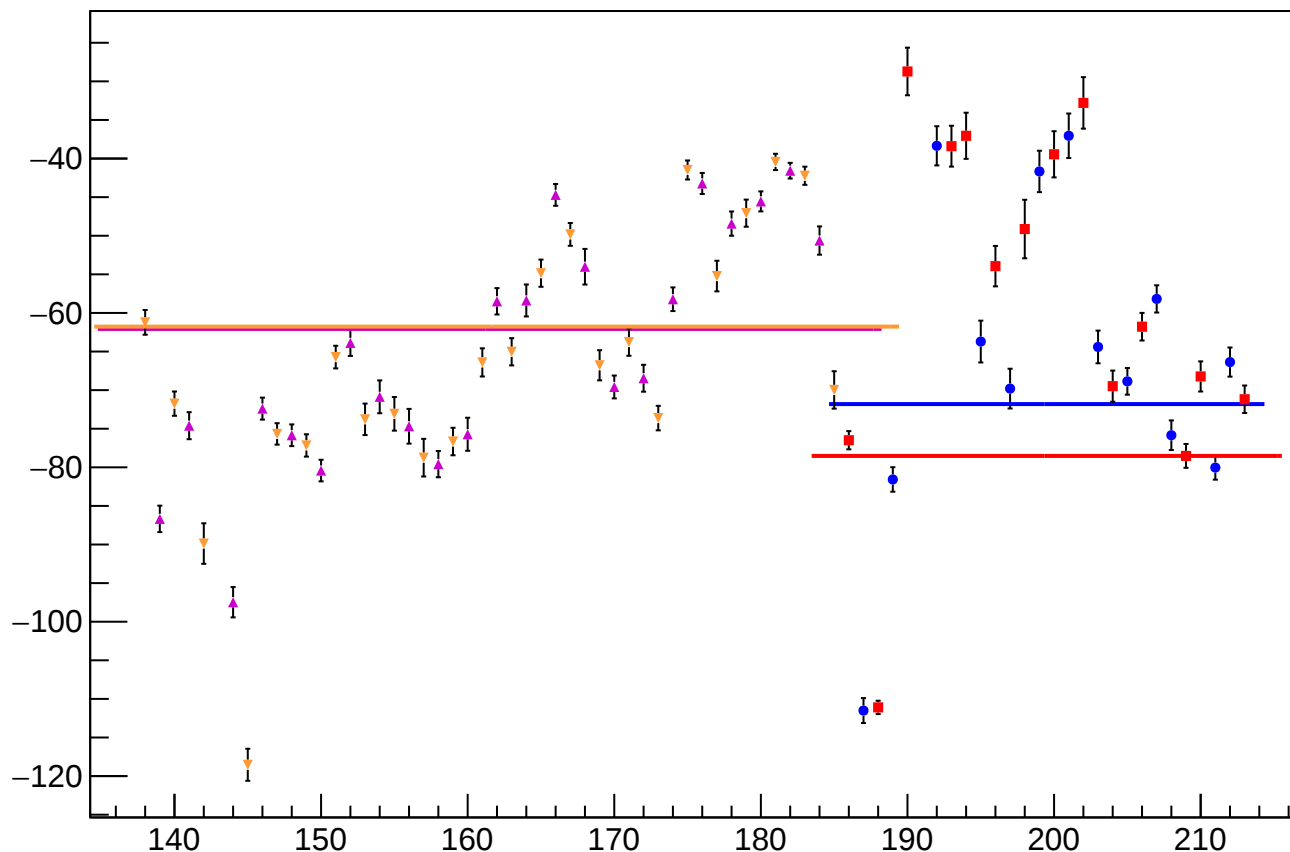
Right: 0.001+/-0.002 χ^2/NDF : 10551.9/62

In: 0.007+/-0.001 χ^2/NDF : 92.4/52

Out: 0.007+/-0.001 χ^2/NDF : 10519.2/57

All: 0.007+/-0.001 χ^2/NDF : 10611.8/110

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.808 $\pm$ 0.549 χ^2/NDF : 1210.3/12

Left Out: -61.771 $\pm$ 0.334 χ^2/NDF :2504.9/23

Right Out: -78.521 $\pm$ 0.477 χ^2/NDF : 2767.1/13

Left In: -62.073 $\pm$ 0.332 χ^2/NDF :2192.0/22

Left: -61.923 $\pm$ 0.236 χ^2/NDF : 4697.3/46

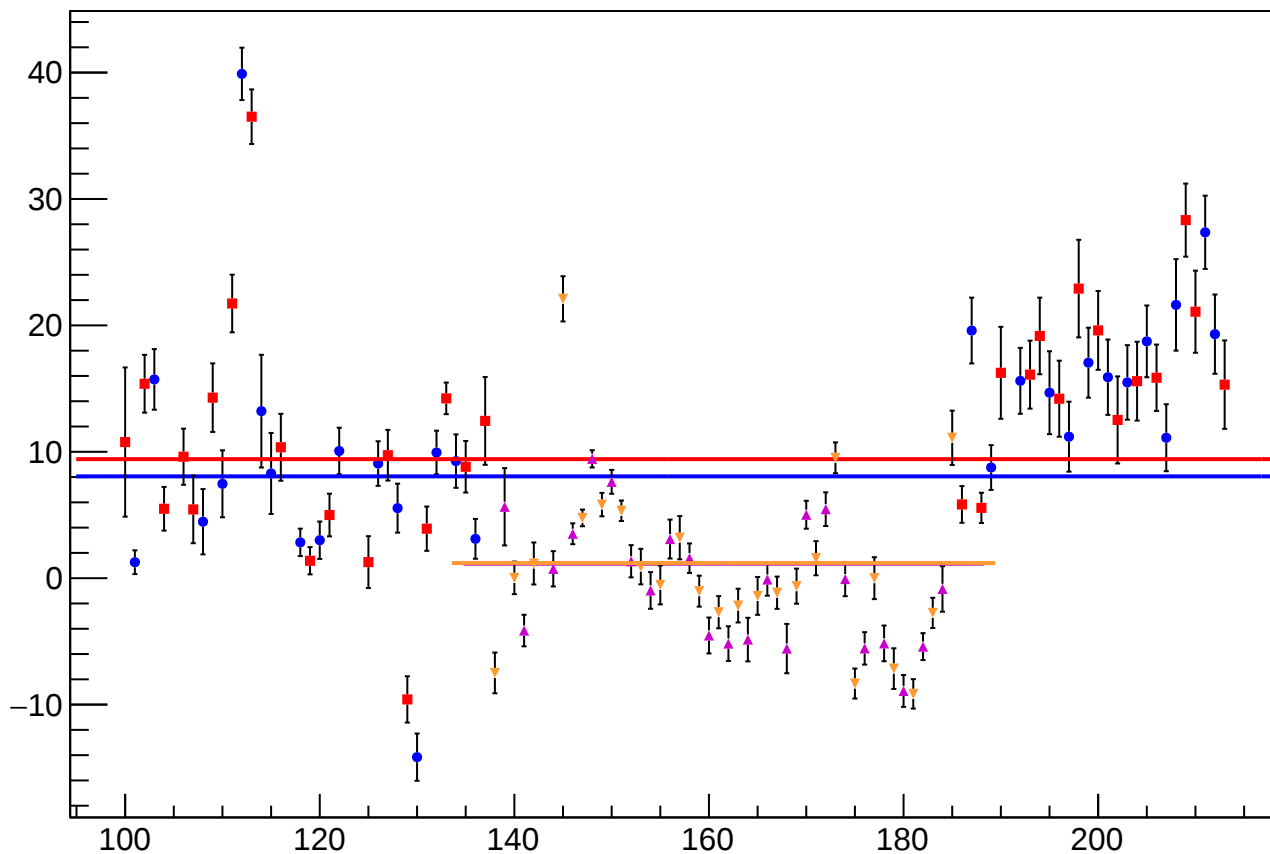
Right: -75.630 $\pm$ 0.360 χ^2/NDF : 4062.7/26

In: -64.687 $\pm$ 0.284 χ^2/NDF :3632.7/35

Out: -67.277 $\pm$ 0.274 χ^2/NDF :6099.4/37

All: -66.032 $\pm$ 0.197 χ^2/NDF : 9775.2/73

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.056 ± 0.373 $\chi^2/\text{NDF}: 636.5/28$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 9.418 ± 0.371 $\chi^2/\text{NDF}: 547.0/31$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

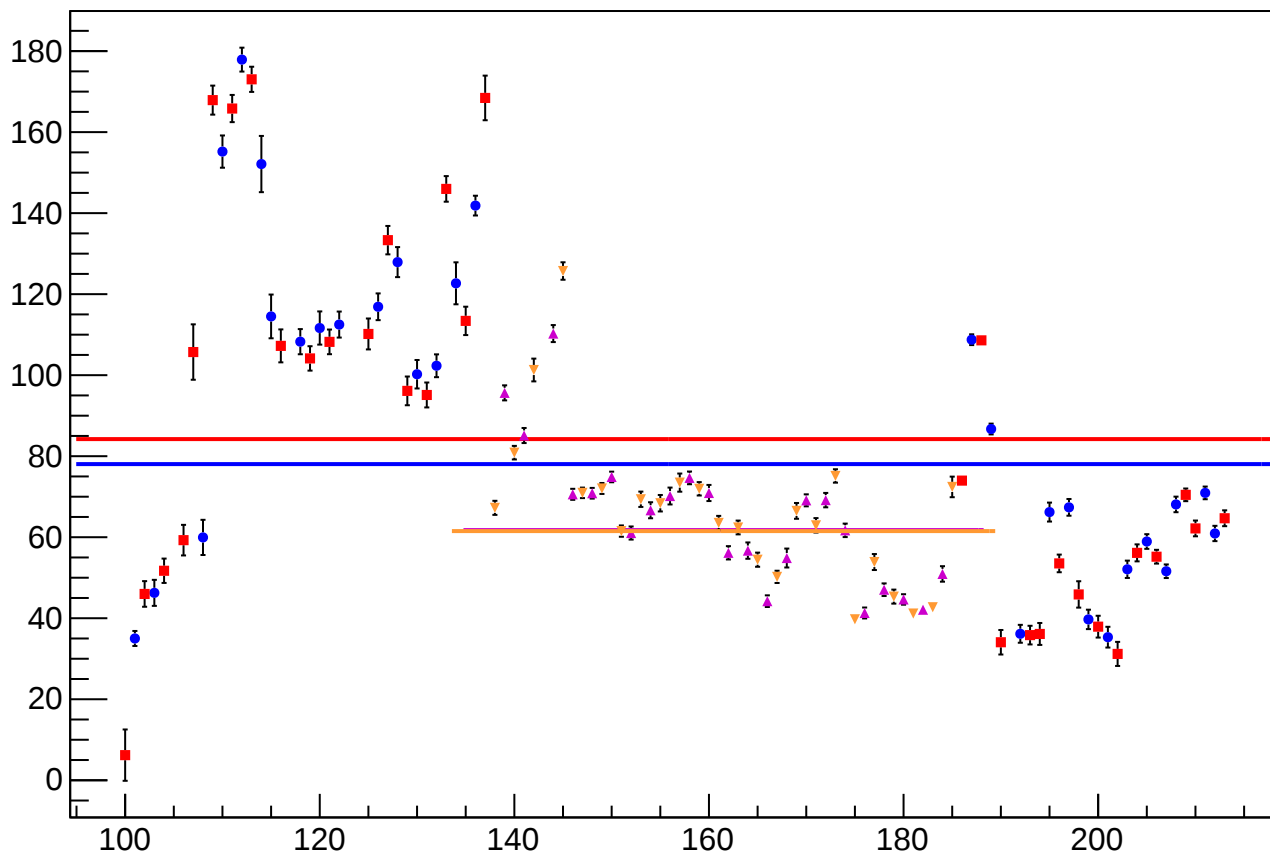
Right: 8.742 ± 0.263 $\chi^2/\text{NDF}: 1190.2/60$

In: 3.348 ± 0.211 $\chi^2/\text{NDF}: 1332.8/51$

Out: 3.803 ± 0.209 $\chi^2/\text{NDF}: 1409.0/55$

All: 3.578 ± 0.148 $\chi^2/\text{NDF}: 2744.1/107$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 78.049 $\pm$ 0.429 χ^2 /NDF: 5964.8/28

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF: 2606.0/23

Right Out: 84.222 $\pm$ 0.375 χ^2 /NDF: 7621.2/31

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

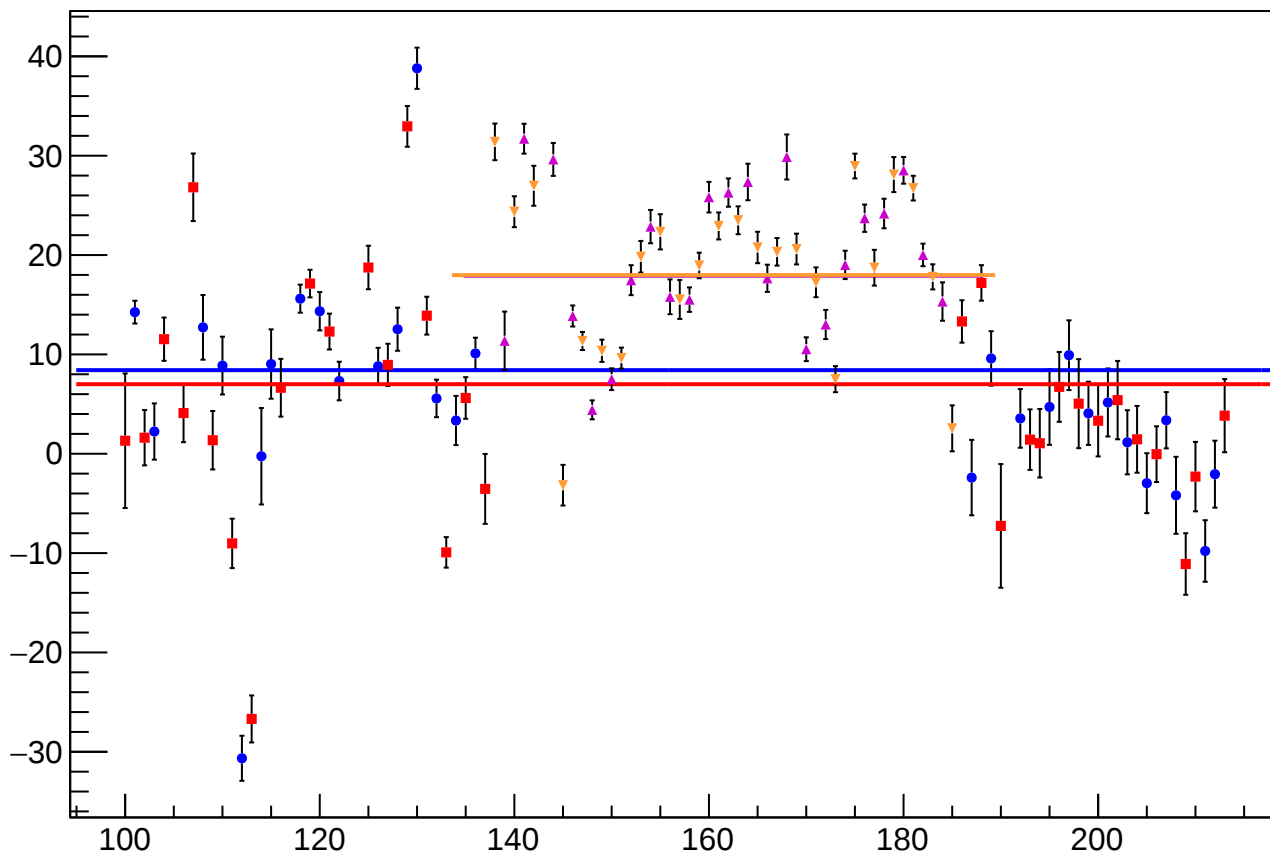
Right: 81.553 $\pm$ 0.282 χ^2 /NDF: 13703.4/60

In: 67.811 $\pm$ 0.262 χ^2 /NDF: 9288.0/51

Out: 71.515 $\pm$ 0.249 χ^2 /NDF: 12284.0/55

All: 69.757 $\pm$ 0.180 χ^2 /NDF: 21677.3/107

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.414 ± 0.436 χ^2/NDF : 686.8/28

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 7.001 ± 0.441 χ^2/NDF : 792.5/31

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

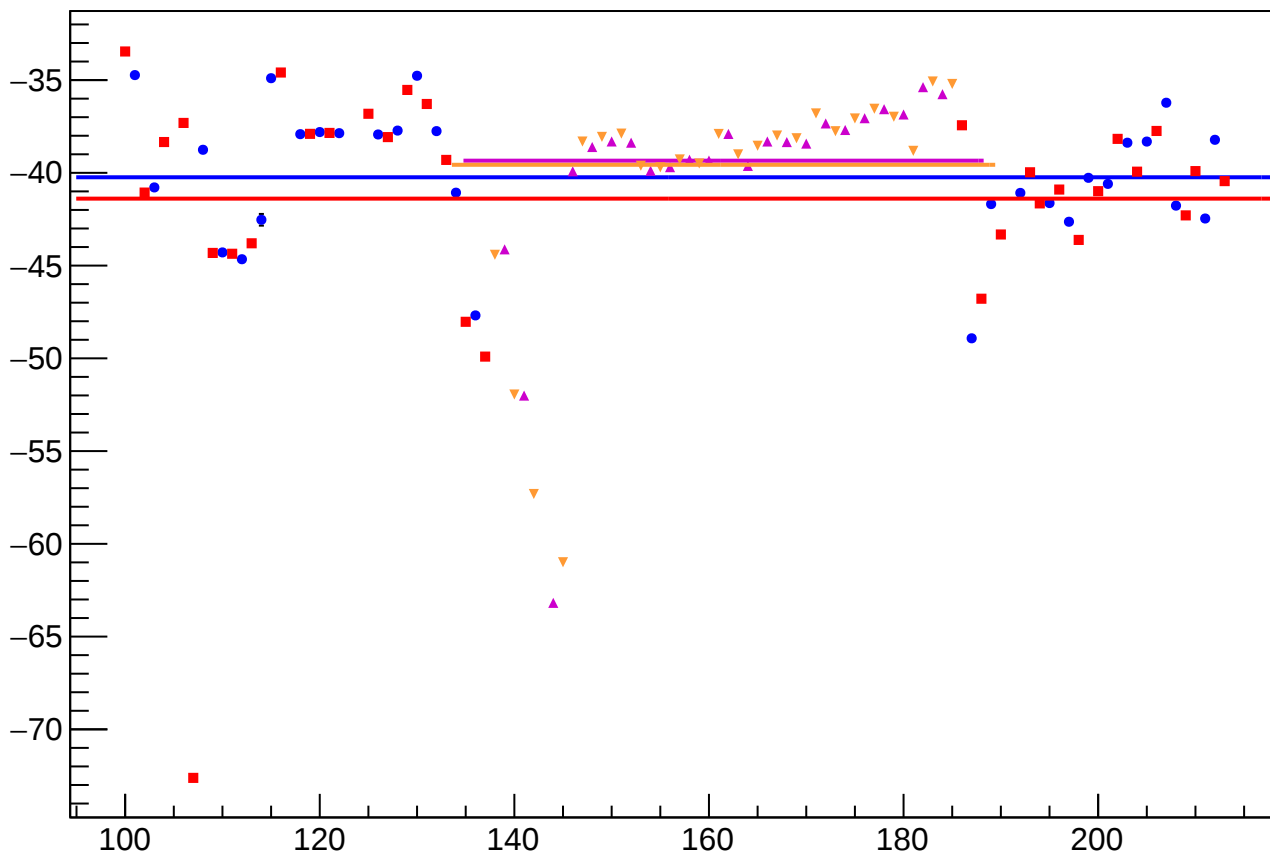
Right: 7.716 ± 0.310 χ^2/NDF : 1484.5/60

In: 14.966 ± 0.243 χ^2/NDF : 1741.3/51

Out: 14.653 ± 0.243 χ^2/NDF : 1898.5/55

All: 14.810 ± 0.172 χ^2/NDF : 3640.7/107

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.239 ± 0.022 $\chi^2/\text{NDF}: 29841.9/28$

Left Out: -39.566 ± 0.014 $\chi^2/\text{NDF}: 141198.7/23$

Right Out: -41.390 ± 0.021 $\chi^2/\text{NDF}: 68706.0/31$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$

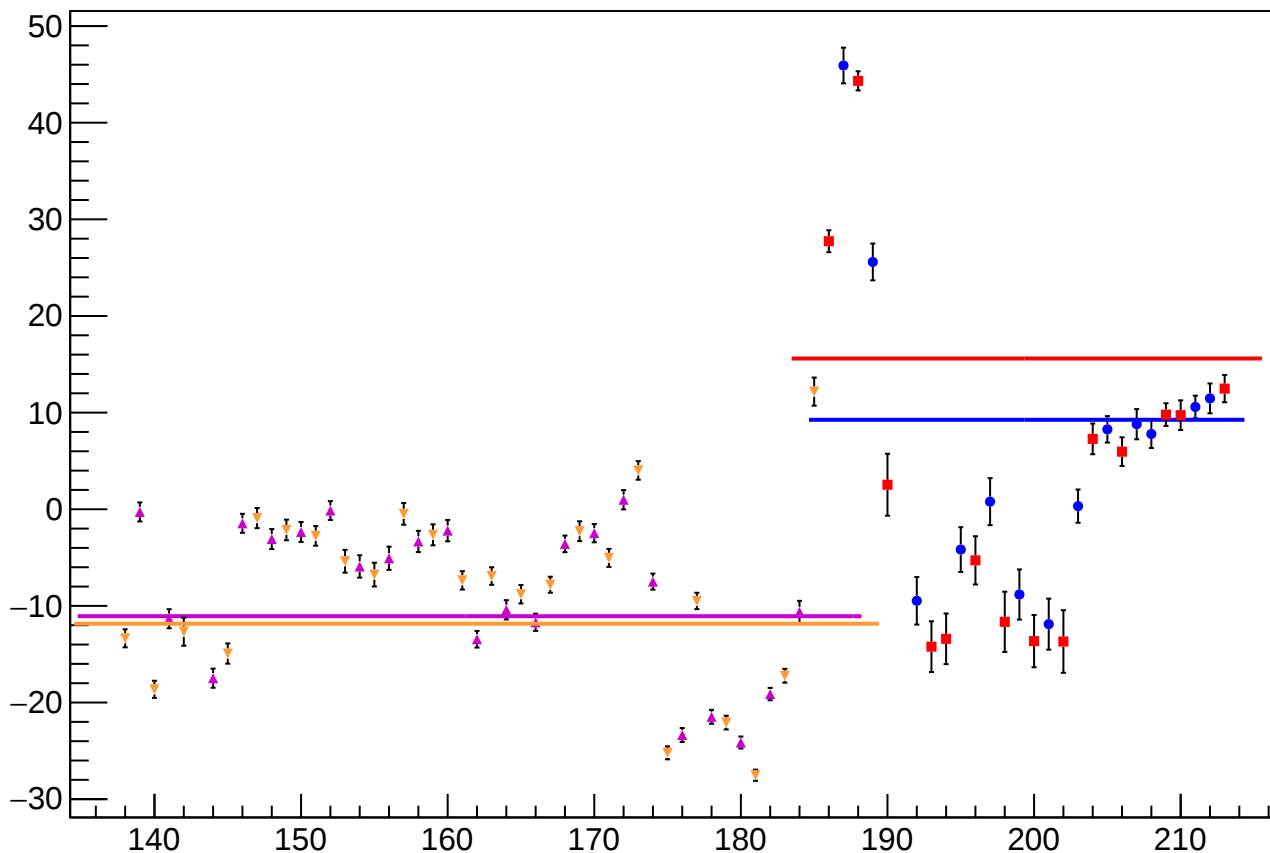
Right: -40.819 ± 0.015 $\chi^2/\text{NDF}: 99985.1/60$

In: -39.599 ± 0.011 $\chi^2/\text{NDF}: 147690.6/51$

Out: -40.098 ± 0.012 $\chi^2/\text{NDF}: 215051.5/55$

All: -39.847 ± 0.008 $\chi^2/\text{NDF}: 363681.0/107$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



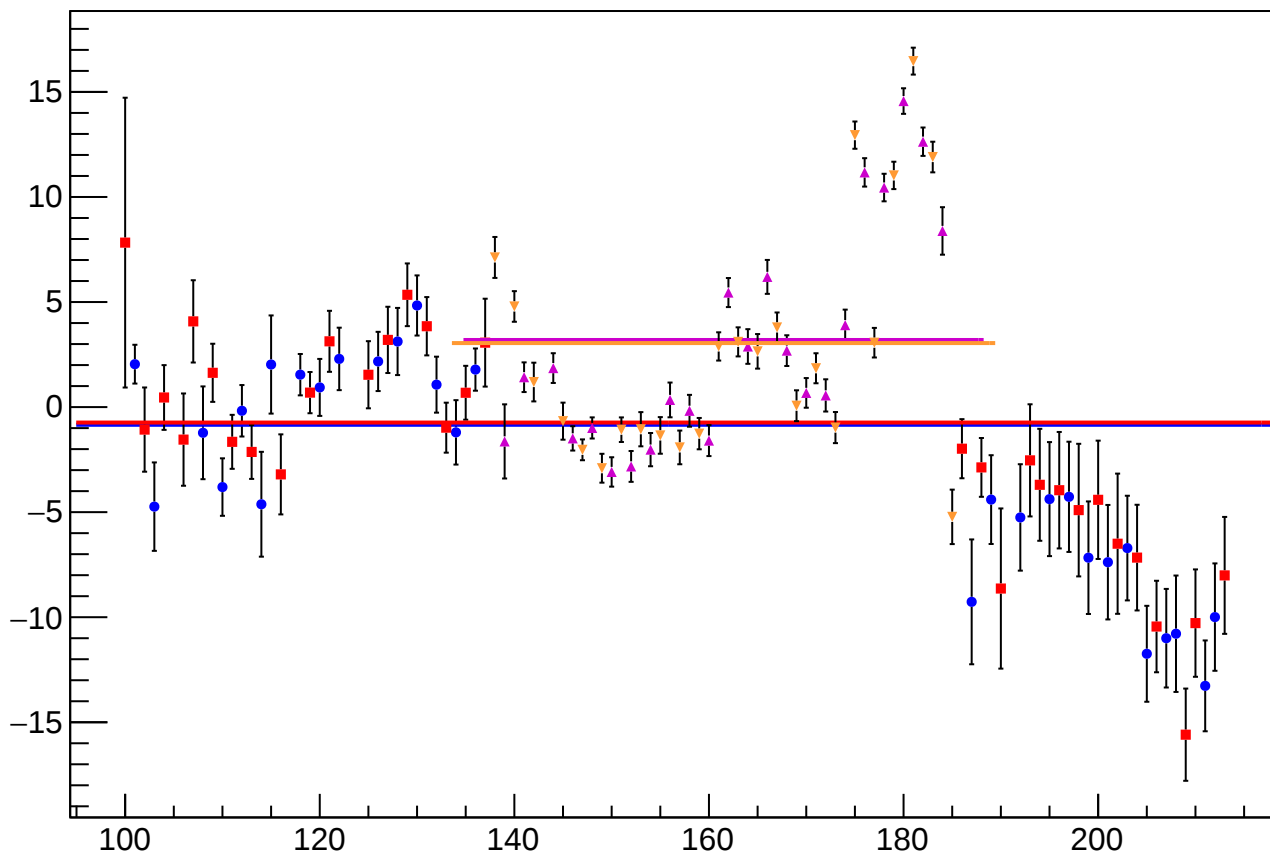
Right In: 9.258 ± 0.483 $\chi^2/\text{NDF}: 716.6/12$
 Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$
 Right Out: 15.601 ± 0.439 $\chi^2/\text{NDF}: 1683.3/13$
 Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$
 Right: 12.729 ± 0.325 $\chi^2/\text{NDF}: 2494.4/26$

In: -8.390 ± 0.175 $\chi^2/\text{NDF}: 4361.2/35$
 Out: -7.635 ± 0.172 $\chi^2/\text{NDF}: 7731.5/37$

All: -8.005 ± 0.123 $\chi^2/\text{NDF}: 12102.2/73$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.842 ± 0.307 χ^2/NDF : 204.0/28

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.736 ± 0.306 χ^2/NDF : 174.1/31

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

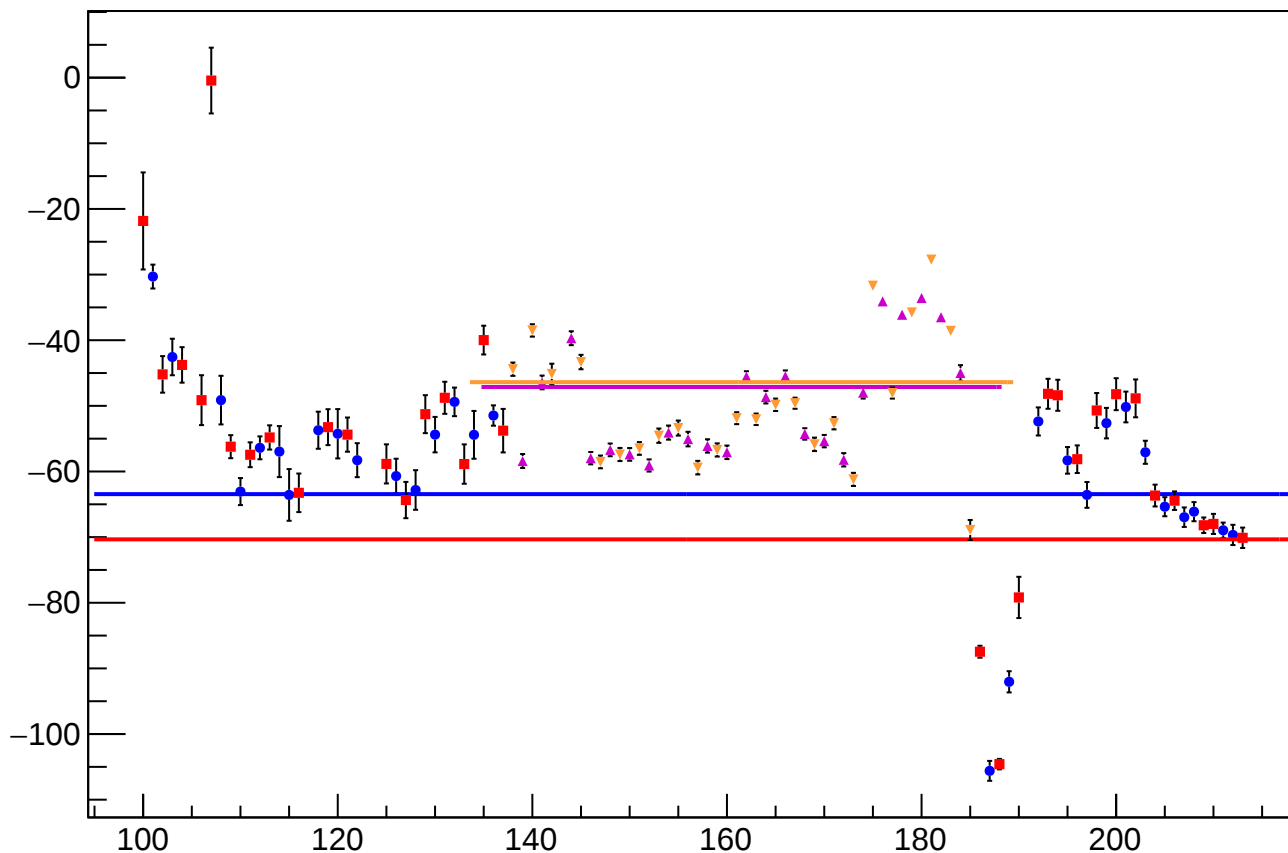
Right: -0.789 ± 0.217 χ^2/NDF : 378.2/60

In: 2.416 ± 0.135 χ^2/NDF : 1638.7/51

Out: 2.332 ± 0.133 χ^2/NDF : 1755.0/55

All: 2.373 ± 0.095 χ^2/NDF : 3393.9/107

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.449 ± 0.367 χ^2/NDF : 1800.0/28

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -70.340 ± 0.334 χ^2/NDF : 3732.5/31

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

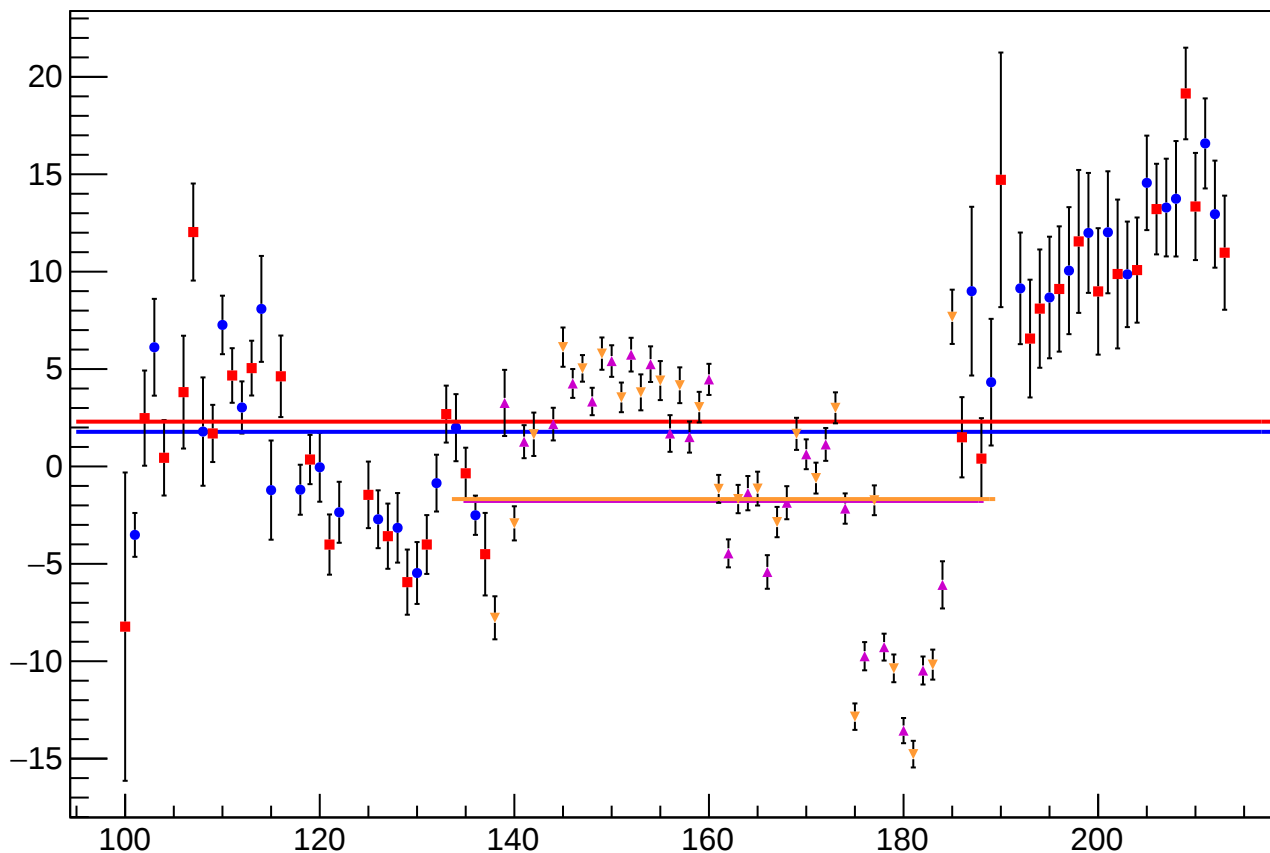
Right: -67.217 ± 0.247 χ^2/NDF : 5725.1/60

In: -50.495 ± 0.167 χ^2/NDF : 5884.4/51

Out: -52.080 ± 0.163 χ^2/NDF : 10932.7/55

All: -51.306 ± 0.117 χ^2/NDF : 16863.4/107

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.777 ± 0.349 χ^2/NDF : 293.0/28

Left Out: -1.675 ± 0.167 χ^2/NDF : 1483.8/23

Right Out: 2.300 ± 0.353 χ^2/NDF : 254.5/31

Left In: -1.771 ± 0.169 χ^2/NDF : 1251.3/22

Left: -1.723 ± 0.119 χ^2/NDF : 2735.2/46

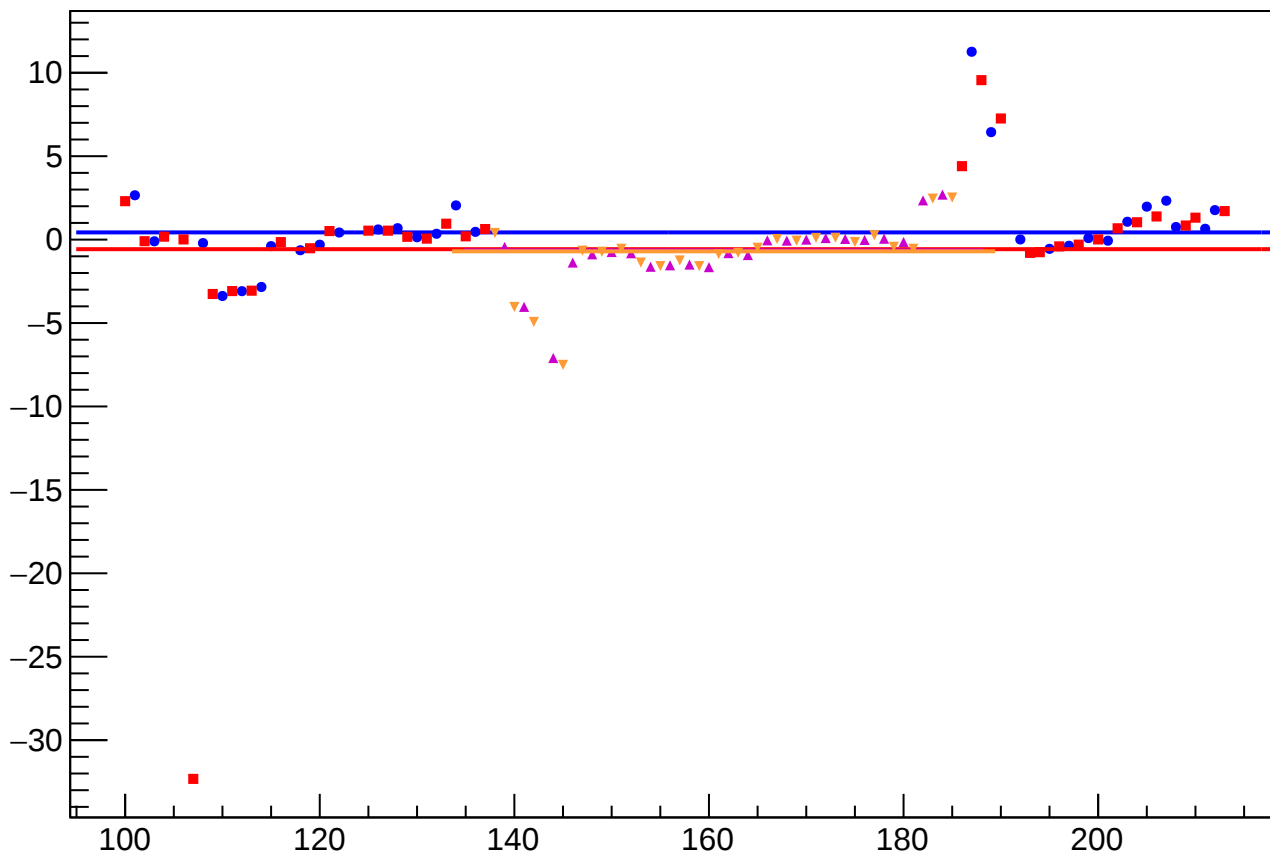
Right: 2.035 ± 0.248 χ^2/NDF : 548.6/60

In: -1.096 ± 0.152 χ^2/NDF : 1628.2/51

Out: -0.947 ± 0.151 χ^2/NDF : 1842.0/55

All: -1.021 ± 0.107 χ^2/NDF : 3470.7/107

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.432 $\pm$ 0.017 χ^2 /NDF: 10079.5/28

Left Out: -0.702 $\pm$ 0.008 χ^2 /NDF: 53834.9/23

Right Out: -0.573 $\pm$ 0.017 χ^2 /NDF: 94031.1/31

Left In: -0.644 $\pm$ 0.008 χ^2 /NDF: 44169.2/22

Left: -0.673 $\pm$ 0.005 χ^2 /NDF: 98032.6/46

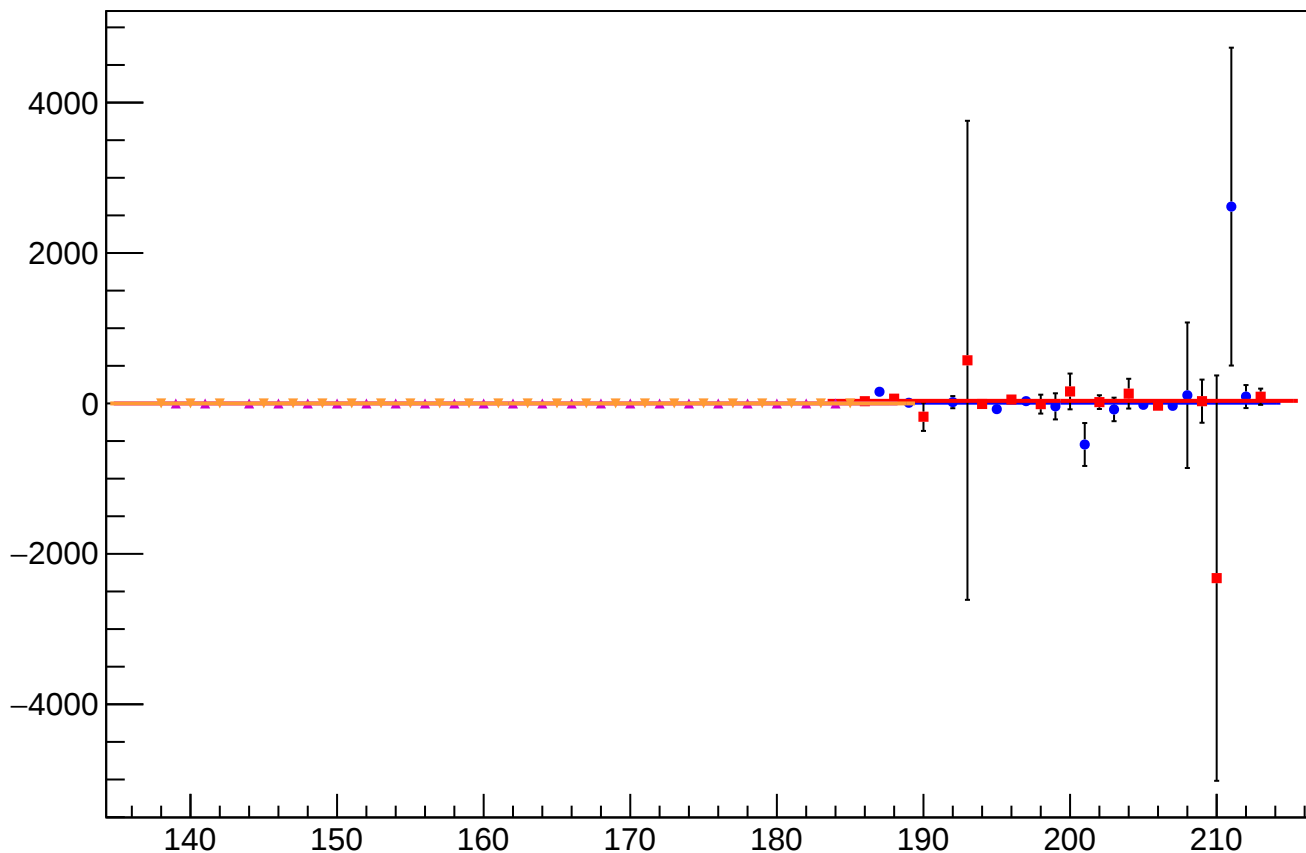
Right: -0.070 $\pm$ 0.012 χ^2 /NDF: 105765.4/60

In: -0.470 $\pm$ 0.007 χ^2 /NDF: 57432.9/51

Out: -0.681 $\pm$ 0.007 χ^2 /NDF: 147911.5/55

All: -0.576 $\pm$ 0.005 χ^2 /NDF: 205798.1/107

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.963 $\pm$ 15.140 χ^2 /NDF: 21.2/12

Left Out: -0.037 $\pm$ 0.018 χ^2 /NDF: 35.4/23

Right Out: 34.398 $\pm$ 9.632 χ^2 /NDF: 7.6/13

Left In: -0.010 $\pm$ 0.018 χ^2 /NDF: 35.1/22

Left: -0.024 $\pm$ 0.013 χ^2 /NDF: 71.7/46

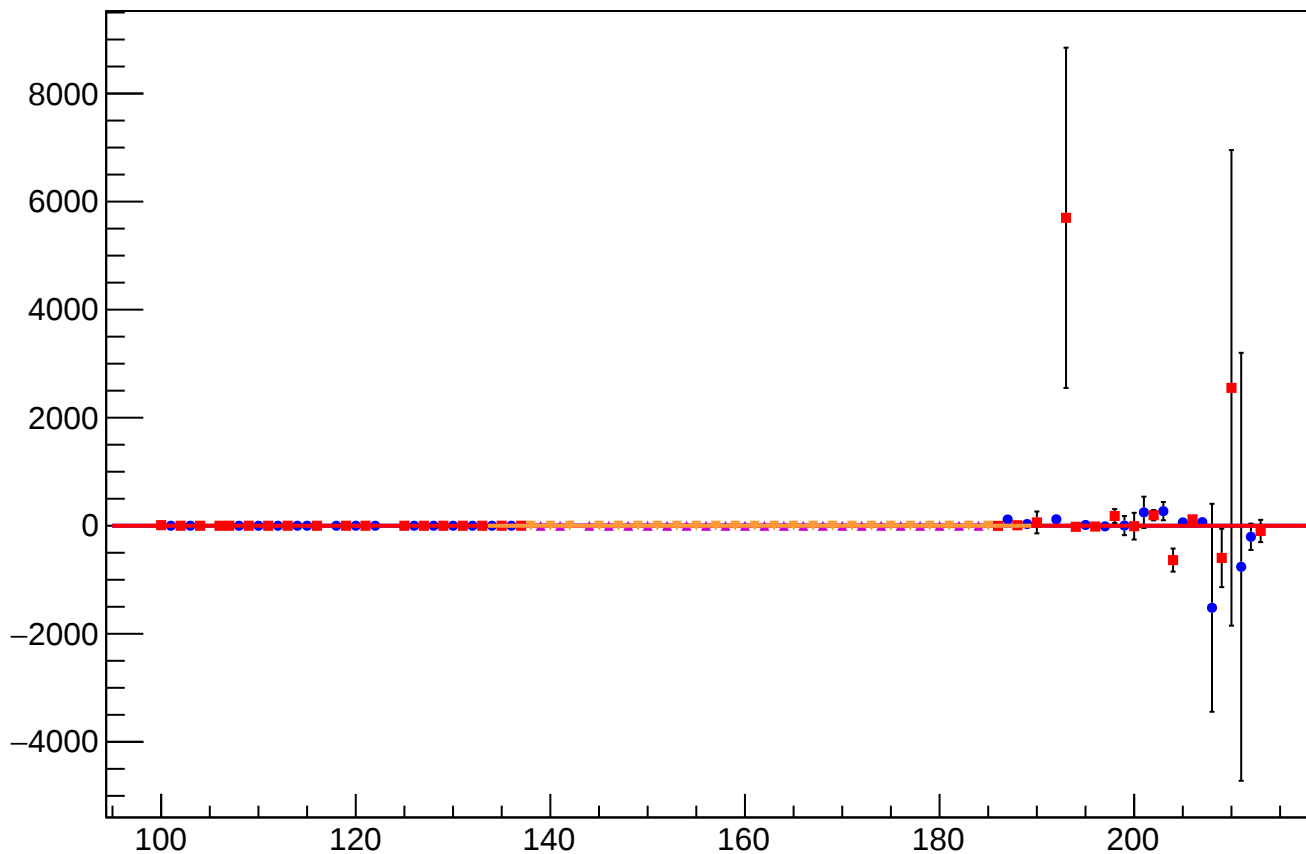
Right: 27.357 $\pm$ 8.127 χ^2 /NDF: 30.7/26

In: -0.010 $\pm$ 0.018 χ^2 /NDF: 56.8/35

Out: -0.037 $\pm$ 0.018 χ^2 /NDF: 55.8/37

All: -0.024 $\pm$ 0.013 χ^2 /NDF: 113.7/73

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 24.9/28

Left Out: -0.073 ± 0.014 χ^2/NDF : 27.8/23

Right Out: -0.088 ± 0.025 χ^2/NDF : 36.6/31

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.068 ± 0.010 χ^2/NDF : 69.1/46

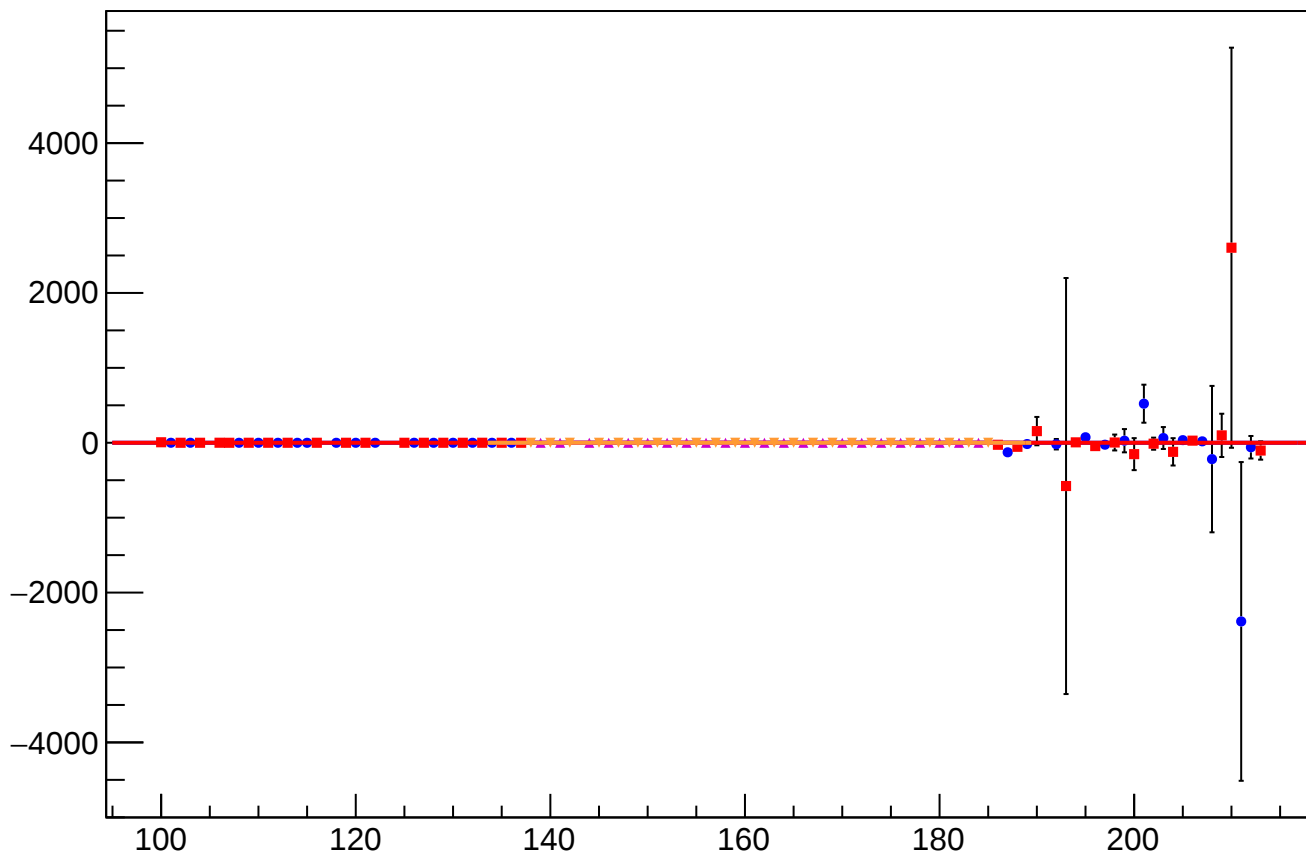
Right: -0.048 ± 0.017 χ^2/NDF : 66.2/60

In: -0.050 ± 0.012 χ^2/NDF : 69.3/51

Out: -0.076 ± 0.012 χ^2/NDF : 64.6/55

All: -0.063 ± 0.009 χ^2/NDF : 136.2/107

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 31.6/28

Left Out: 0.035+/-0.018 χ^2/NDF : 32.2/23

Right Out: 0.031+/-0.045 χ^2/NDF : 32.5/31

Left In: -0.009+/-0.018 χ^2/NDF : 36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.0/46

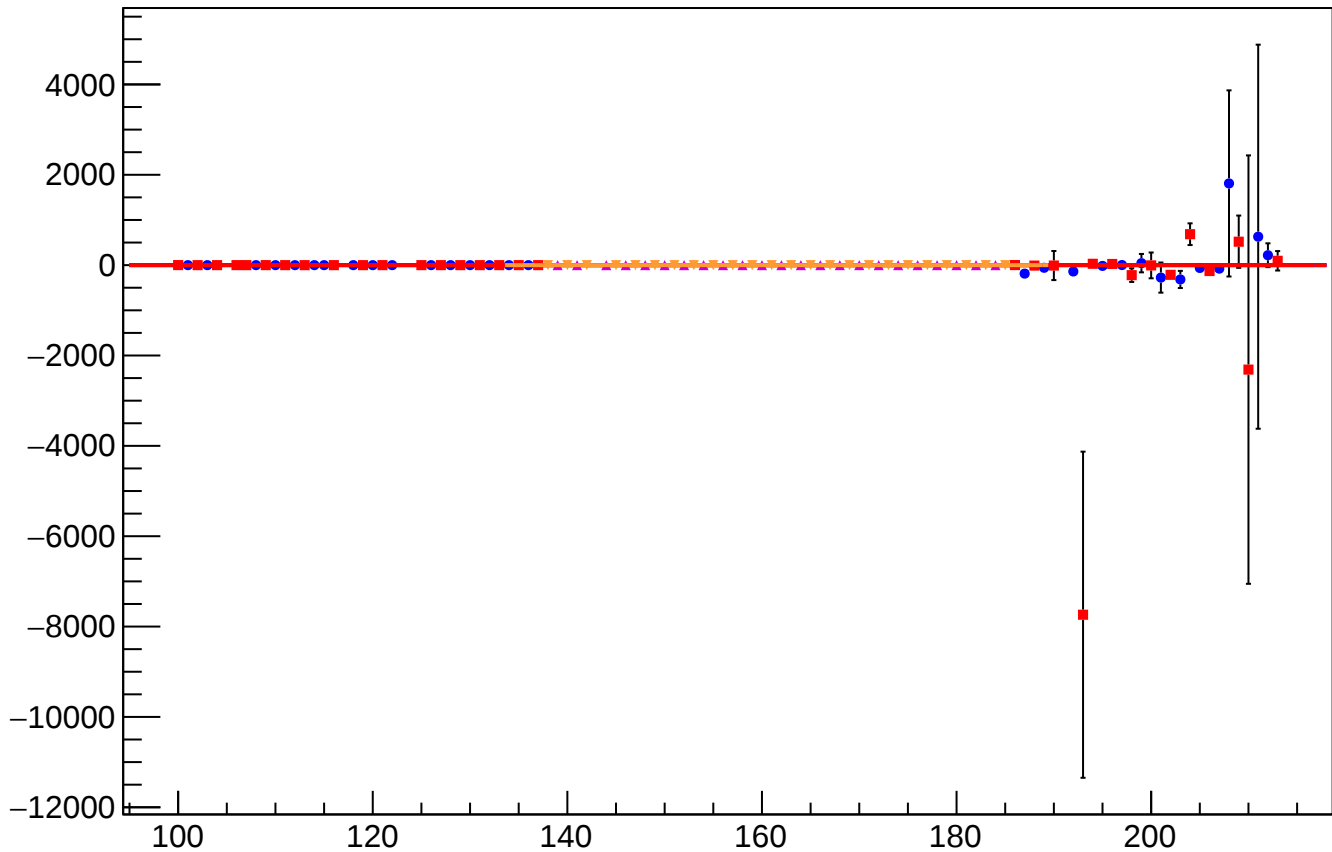
Right: 0.023+/-0.031 χ^2/NDF : 64.1/60

In: -0.005+/-0.017 χ^2/NDF : 68.7/51

Out: 0.035+/-0.017 χ^2/NDF : 64.7/55

All: 0.015+/-0.012 χ^2/NDF : 136.2/107

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 26.2/28

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 32.0/31

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

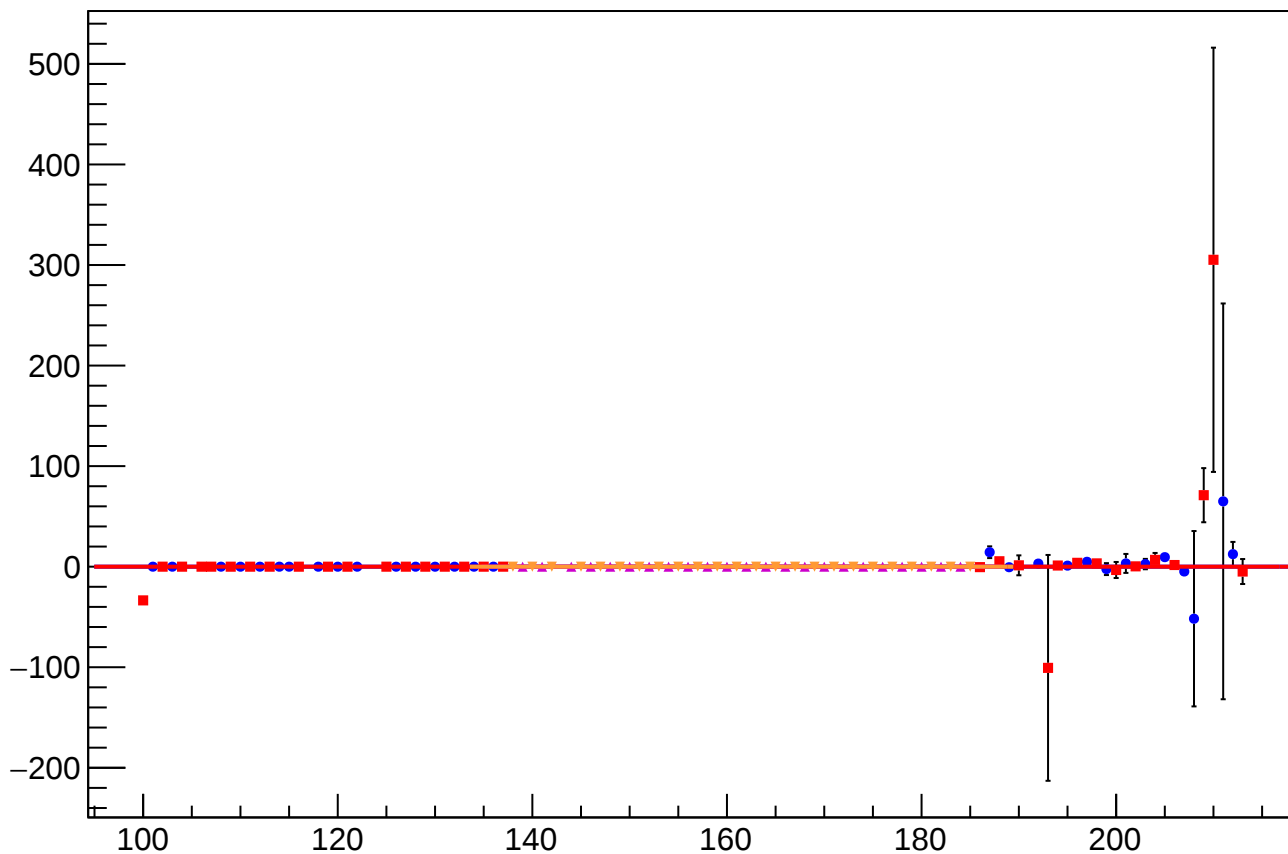
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 64.2/60

In: 0.053 $\pm$ 0.014 χ^2 /NDF:74.8/51

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:60.0/55

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 138.3/107

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 47.8/28

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26530.8/31

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

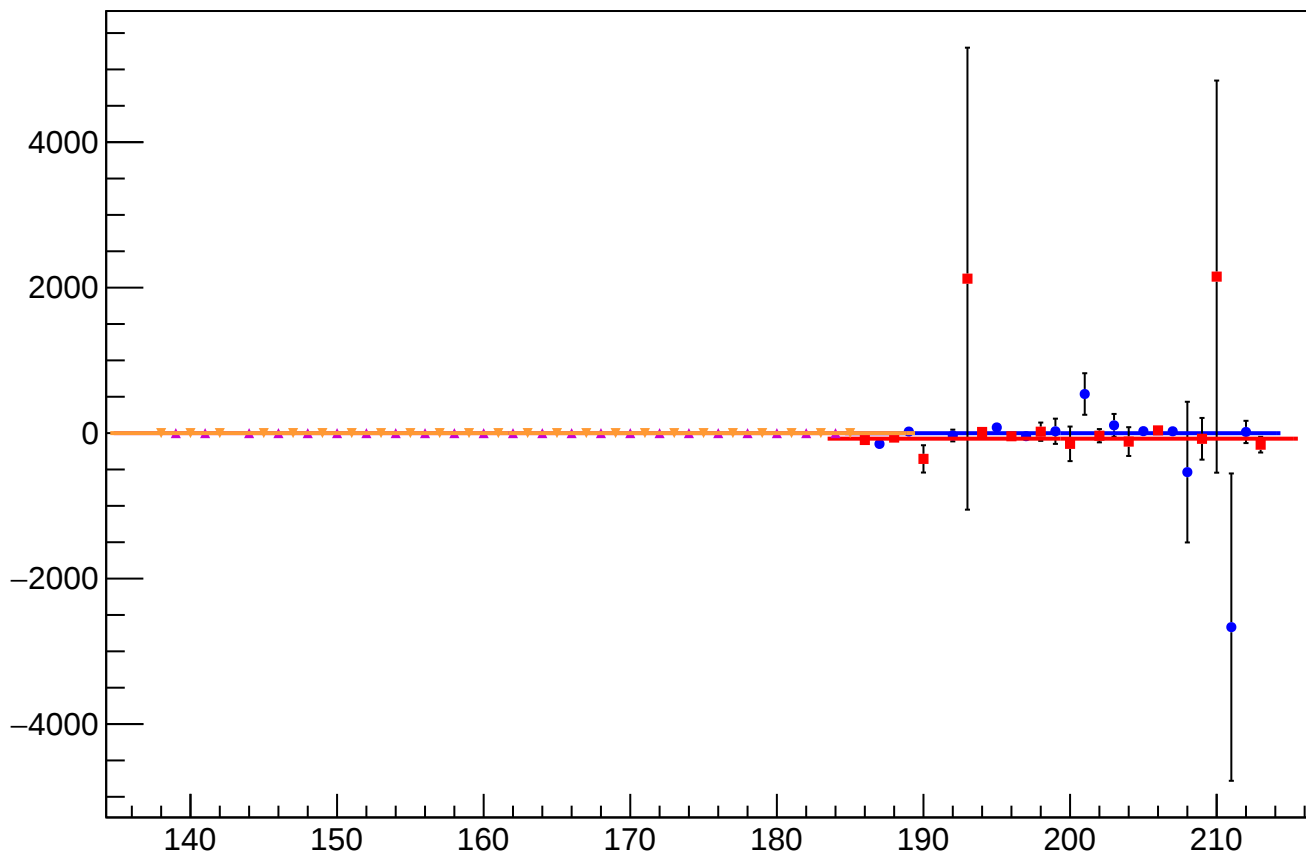
Right: -0.006 ± 0.001 χ^2/NDF : 26578.6/60

In: -0.001 ± 0.001 χ^2/NDF : 81.8/51

Out: -0.001 ± 0.001 χ^2/NDF : 26569.5/55

All: -0.001 ± 0.000 χ^2/NDF : 26651.3/107

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.189 ± 15.135 $\chi^2/\text{NDF}: 21.8/12$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -76.199 ± 9.635 $\chi^2/\text{NDF}: 16.6/13$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

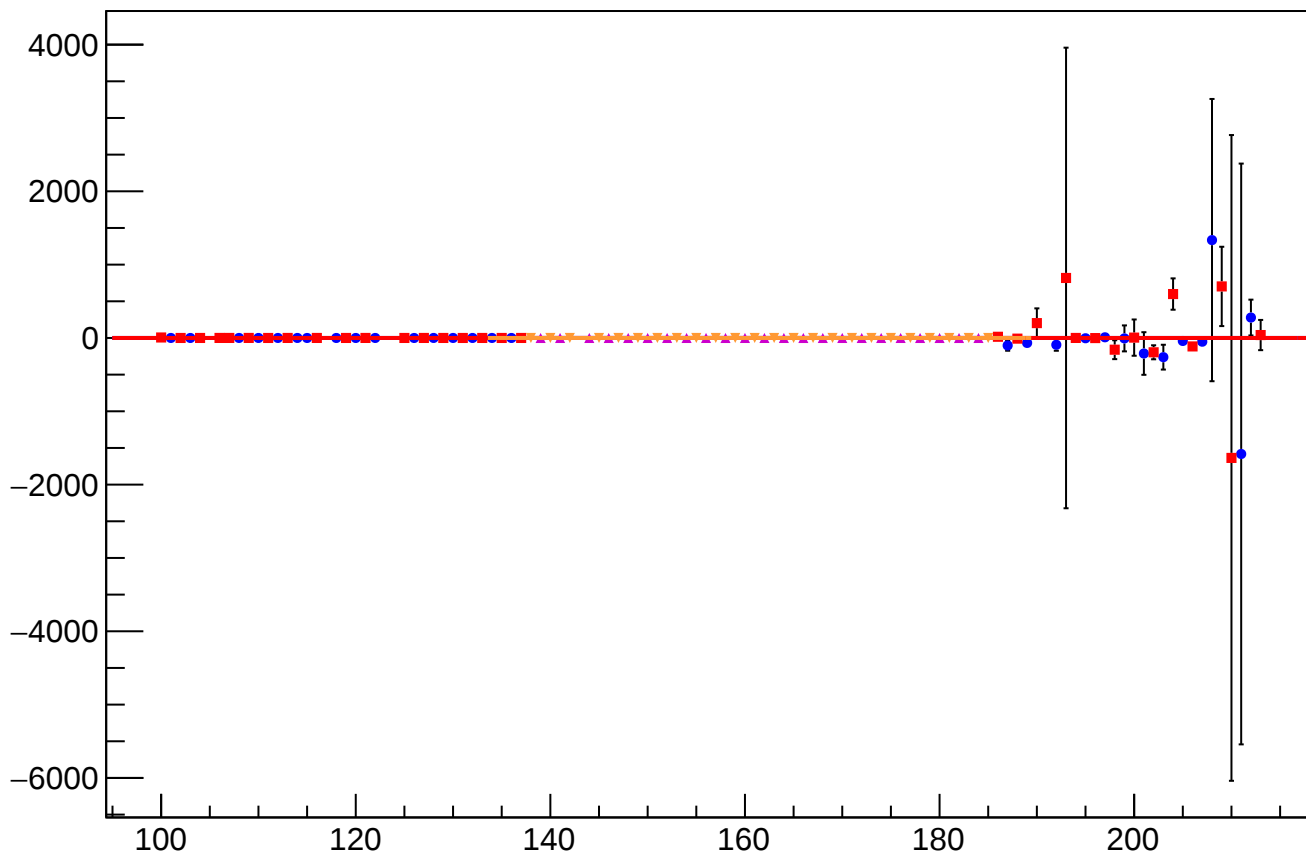
Right: -54.569 ± 8.128 $\chi^2/\text{NDF}: 55.8/26$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 56.9/35$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 116.4/37$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 176.2/73$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 39.2/28

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF:29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 49.6/31

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

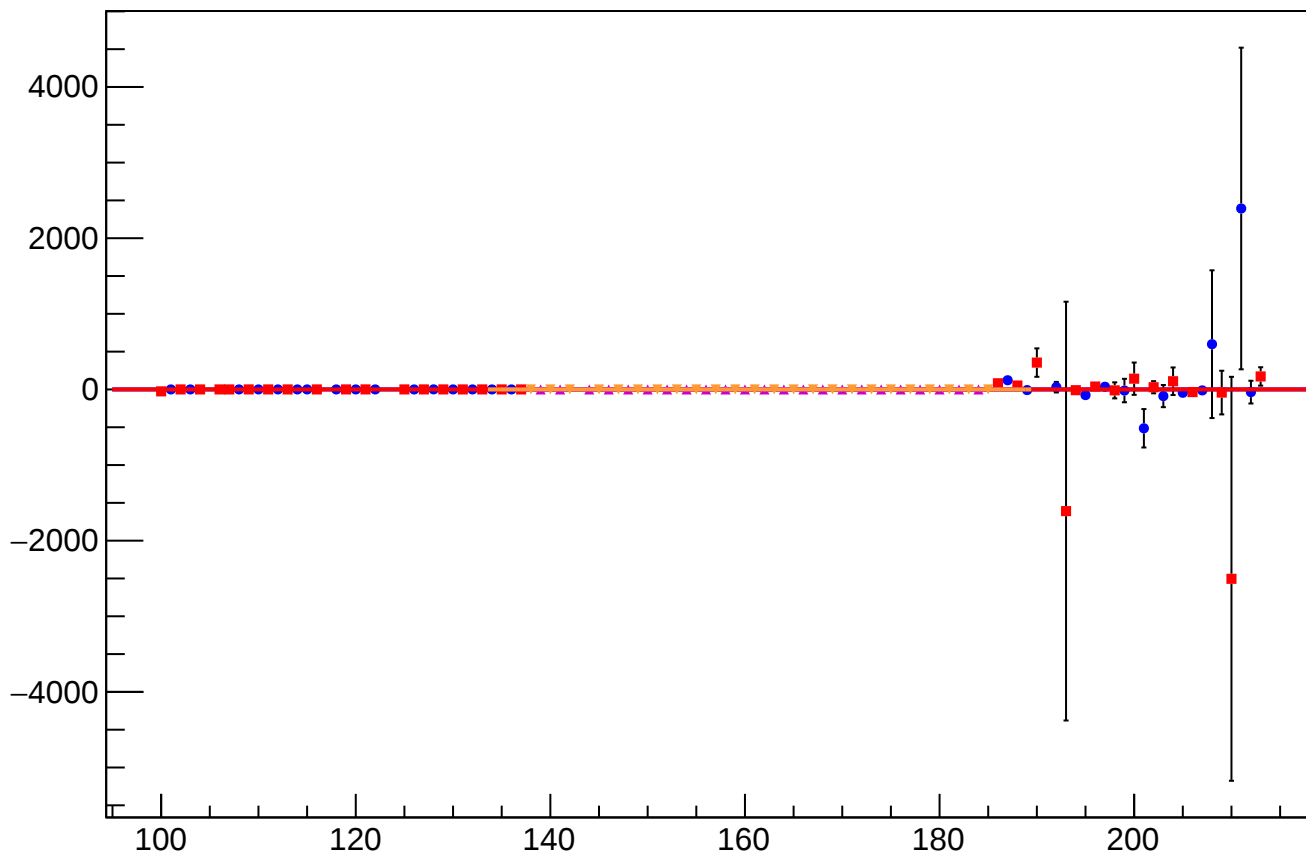
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 89.5/60

In: 0.006 $\pm$ 0.012 χ^2 /NDF:88.8/51

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:81.9/55

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 170.8/107

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 51.9/28

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 111.5/31

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

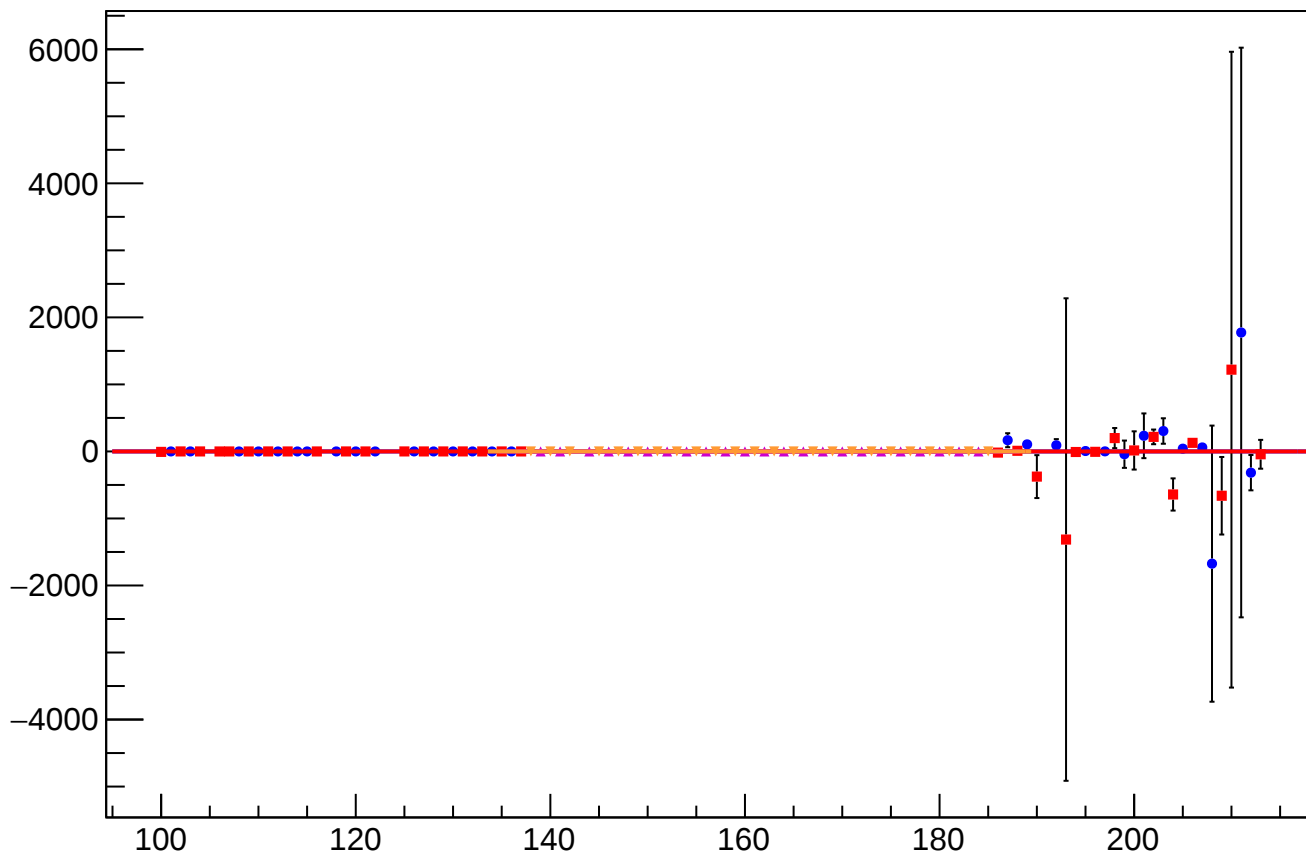
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 163.8/60

In: 0.040 $\pm$ 0.017 χ^2 /NDF:96.3/51

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:156.4/55

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 254.1/107

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 39.1/28

Left Out: 0.022 ± 0.016 χ^2/NDF : 33.3/23

Right Out: -0.046 ± 0.029 χ^2/NDF : 46.1/31

Left In: 0.006 ± 0.016 χ^2/NDF : 50.1/22

Left: 0.014 ± 0.011 χ^2/NDF : 83.9/46

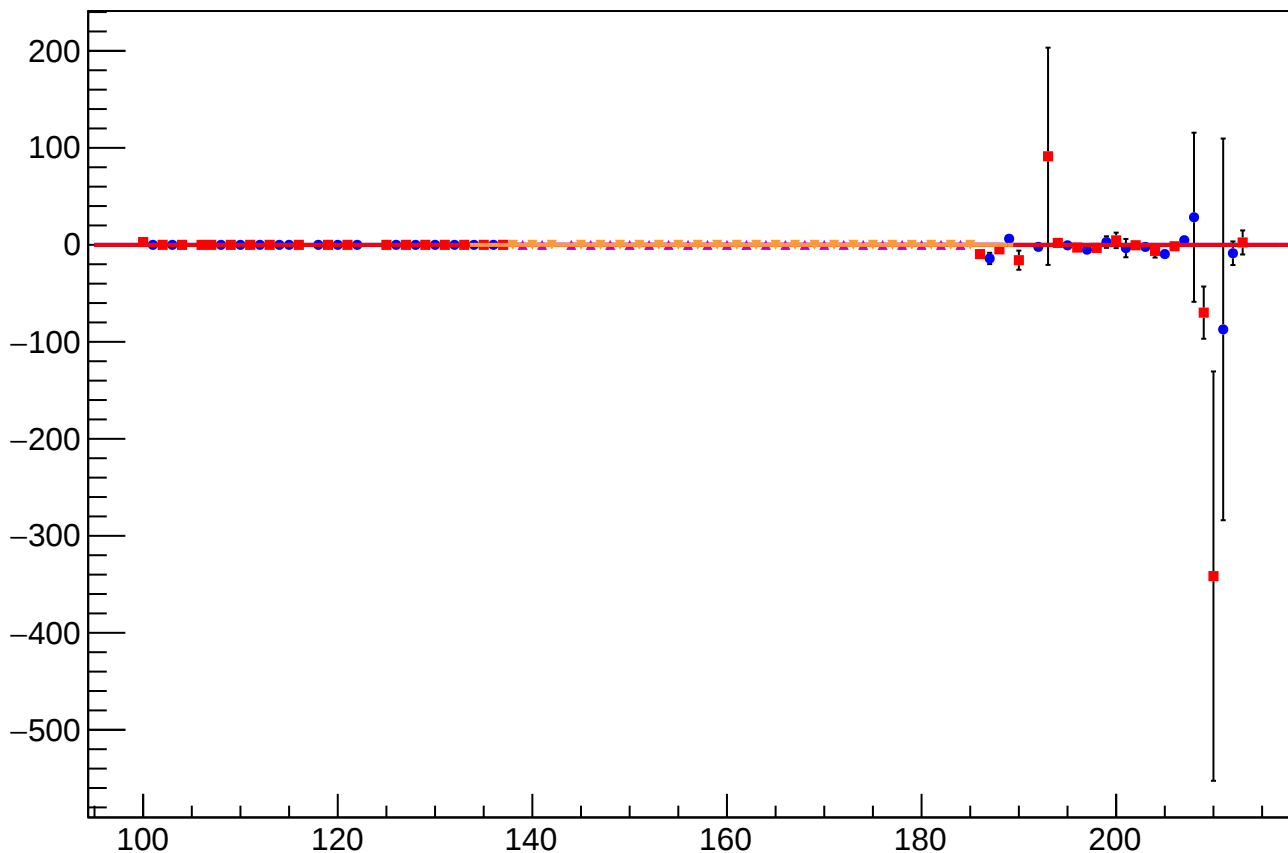
Right: -0.027 ± 0.020 χ^2/NDF : 86.0/60

In: 0.002 ± 0.014 χ^2/NDF : 89.5/51

Out: 0.005 ± 0.014 χ^2/NDF : 83.7/55

All: 0.004 ± 0.010 χ^2/NDF : 173.2/107

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 58.4/28

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 224.3/31

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

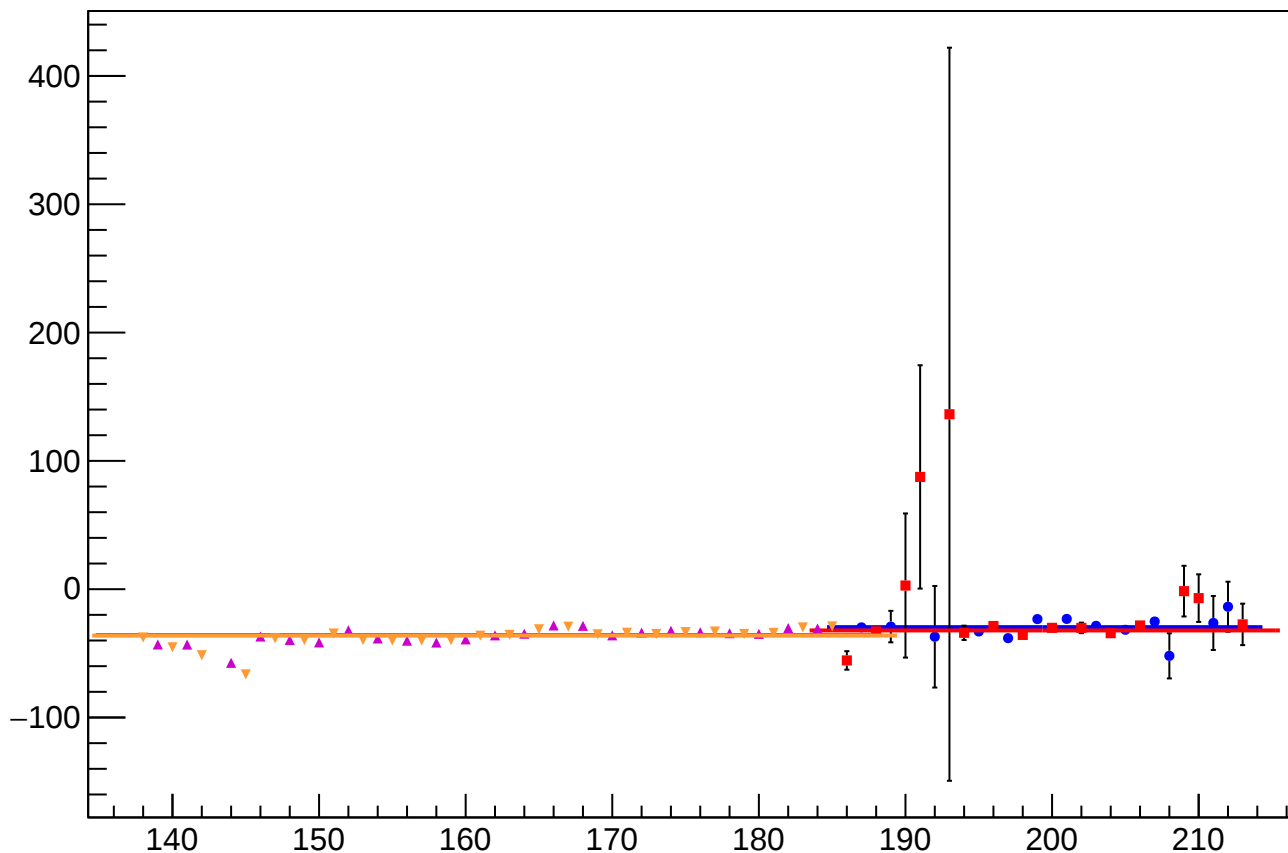
Right: -0.006 ± 0.001 χ^2/NDF : 282.7/60

In: -0.008 ± 0.001 χ^2/NDF : 98.2/51

Out: -0.008 ± 0.001 χ^2/NDF : 258.3/55

All: -0.008 ± 0.000 χ^2/NDF : 356.7/107

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.593 ± 0.857 $\chi^2/\text{NDF}: 26.4/12$

Left Out: -36.120 ± 0.192 $\chi^2/\text{NDF}: 1114.9/23$

Right Out: -32.143 ± 0.806 $\chi^2/\text{NDF}: 25.1/14$

Left In: -35.779 ± 0.191 $\chi^2/\text{NDF}: 854.1/22$

Left: -35.949 ± 0.136 $\chi^2/\text{NDF}: 1970.6/46$

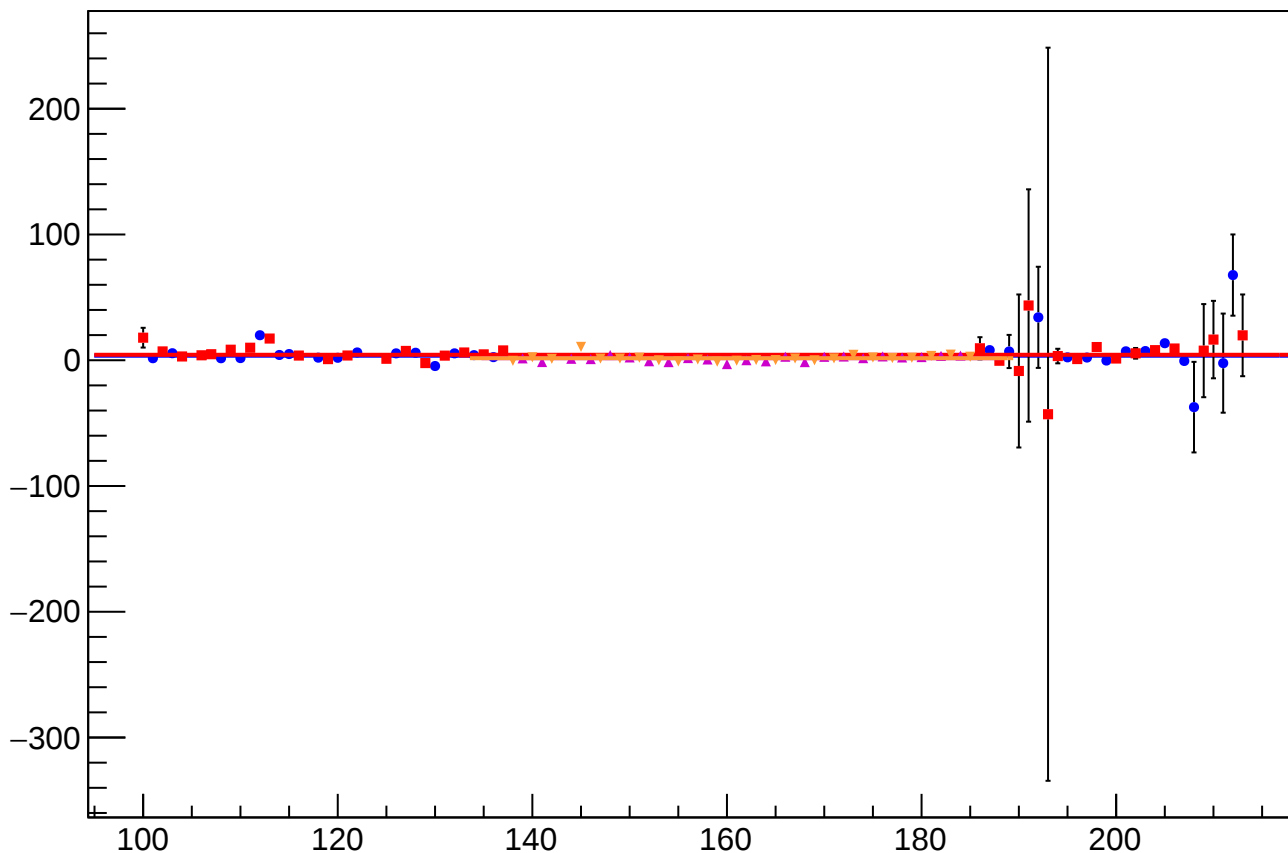
Right: -30.945 ± 0.587 $\chi^2/\text{NDF}: 56.2/27$

In: -35.485 ± 0.187 $\chi^2/\text{NDF}: 930.2/35$

Out: -35.907 ± 0.187 $\chi^2/\text{NDF}: 1163.1/38$

All: -35.696 ± 0.132 $\chi^2/\text{NDF}: 2095.8/74$

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.602 ± 0.217 $\chi^2/\text{NDF}: 462.1/28$

Left Out: 1.634 ± 0.148 $\chi^2/\text{NDF}: 166.5/23$

Right Out: 4.350 ± 0.221 $\chi^2/\text{NDF}: 369.4/32$

Left In: 1.641 ± 0.150 $\chi^2/\text{NDF}: 163.2/22$

Left: 1.638 ± 0.105 $\chi^2/\text{NDF}: 329.7/46$

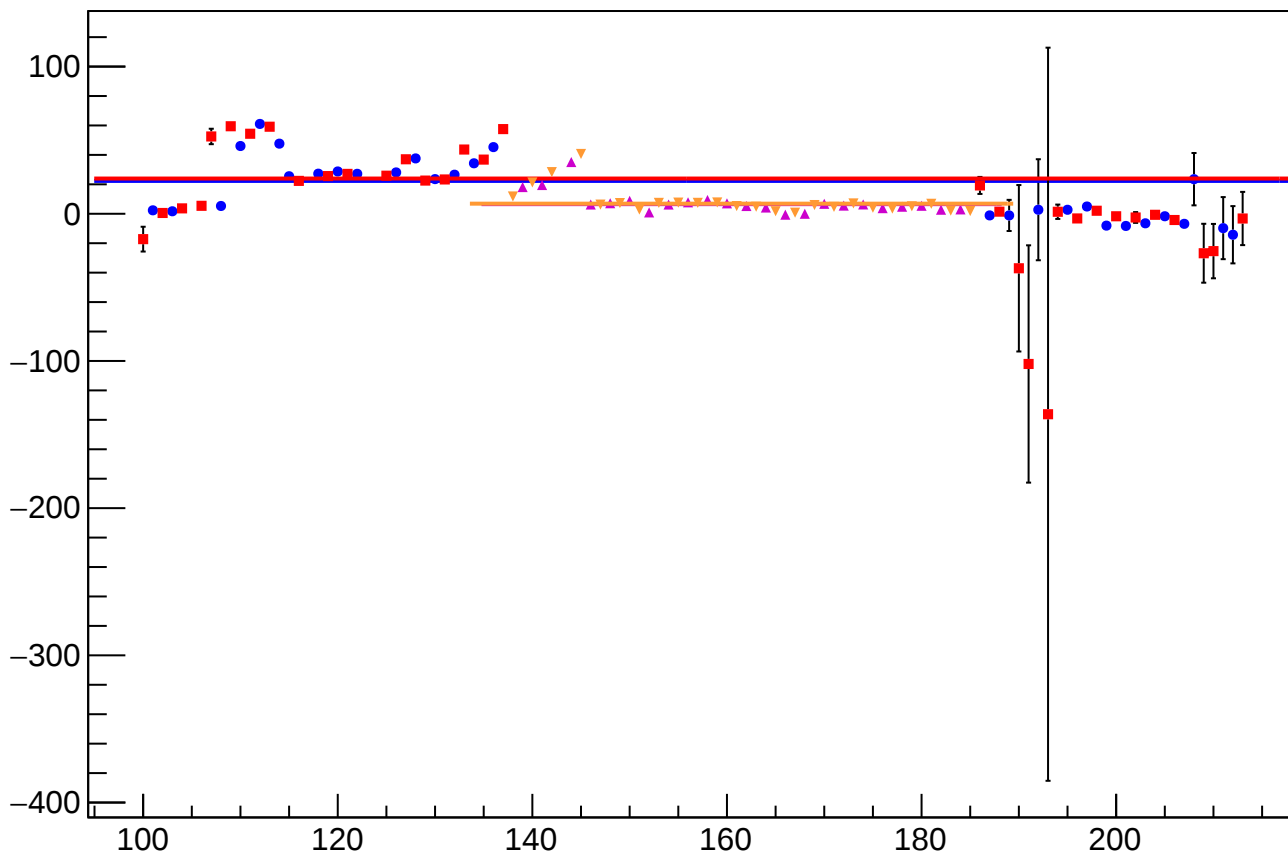
Right: 3.969 ± 0.155 $\chi^2/\text{NDF}: 837.3/61$

In: 2.274 ± 0.123 $\chi^2/\text{NDF}: 680.8/51$

Out: 2.475 ± 0.123 $\chi^2/\text{NDF}: 640.5/56$

All: 2.375 ± 0.087 $\chi^2/\text{NDF}: 1322.7/108$

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.325+/-0.370 χ^2/NDF : 2812.0/28

Left Out: 6.866+/-0.191 χ^2/NDF : 1295.7/23

Right Out: 23.935+/-0.362 χ^2/NDF : 3299.5/32

Left In: 6.537+/-0.190 χ^2/NDF : 1025.1/22

Left: 6.700+/-0.135 χ^2/NDF : 2322.3/46

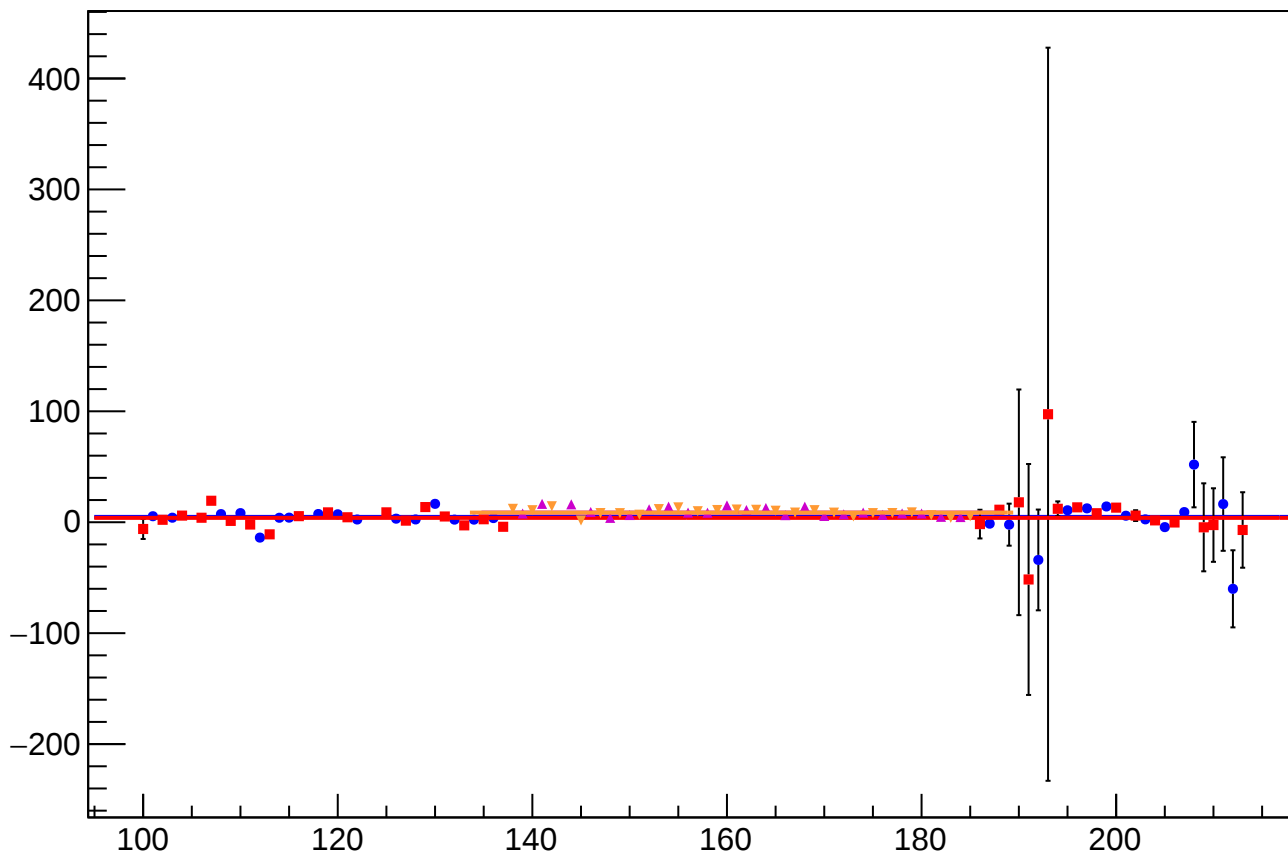
Right: 23.148+/-0.259 χ^2/NDF : 6121.1/61

In: 9.844+/-0.169 χ^2/NDF : 5277.6/51

Out: 10.600+/-0.169 χ^2/NDF : 6335.4/56

All: 10.222+/-0.120 χ^2/NDF : 11623.1/108

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.804 $\pm$ 0.250 χ^2 /NDF: 576.3/28

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.936 $\pm$ 0.254 χ^2 /NDF: 589.3/32

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

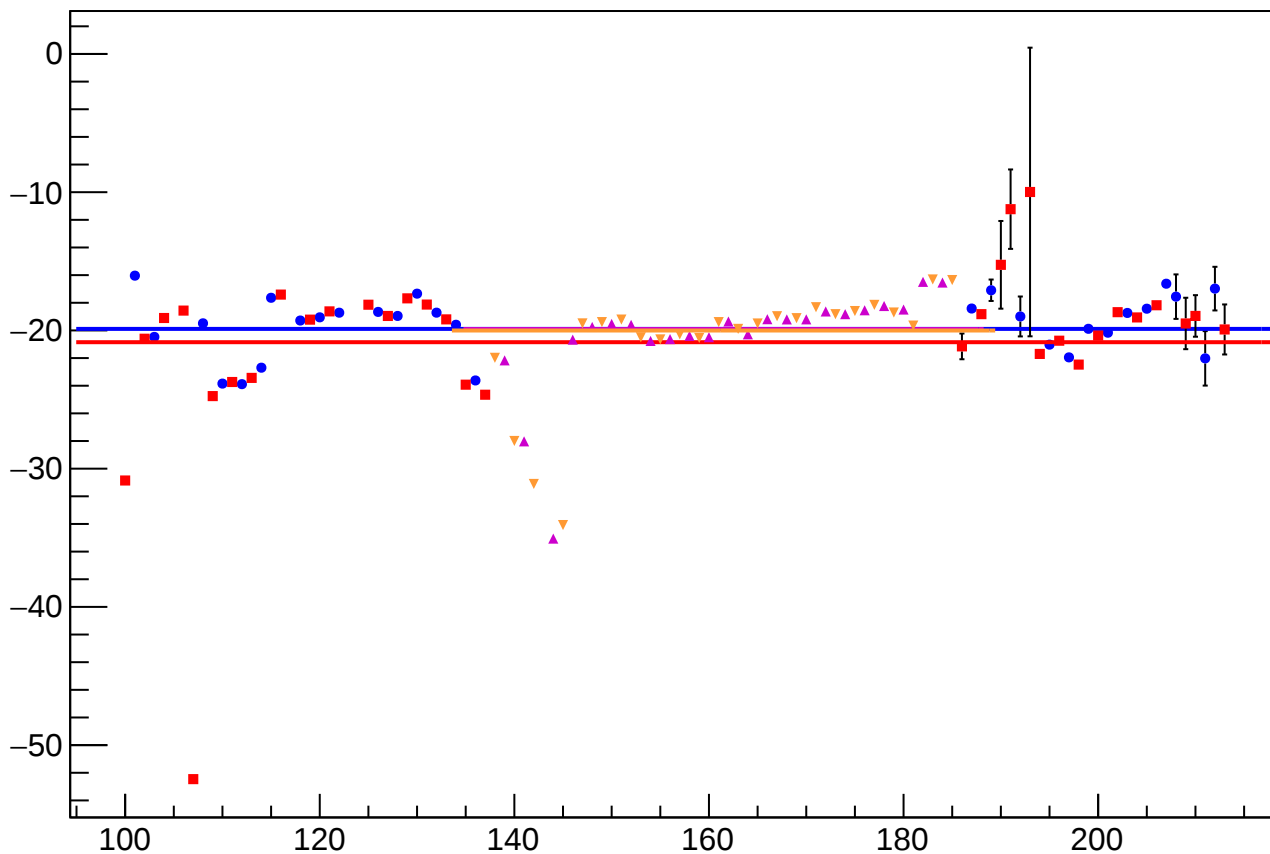
Right: 4.378 $\pm$ 0.178 χ^2 /NDF: 1171.5/61

In: 7.445 $\pm$ 0.141 χ^2 /NDF:1176.2/51

Out: 7.237 $\pm$ 0.141 χ^2 /NDF:1073.1/56

All: 7.341 $\pm$ 0.099 χ^2 /NDF: 2250.5/108

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.889+/-0.015 χ^2/NDF : 27147.7/28

Left Out: -20.006+/-0.008 χ^2/NDF :171763.9/23

Right Out: -20.851+/-0.015 χ^2/NDF : 95240.6/32

Left In: -19.898+/-0.008 χ^2/NDF :144191.9/22

Left: -19.951+/-0.006 χ^2/NDF : 316049.4/46

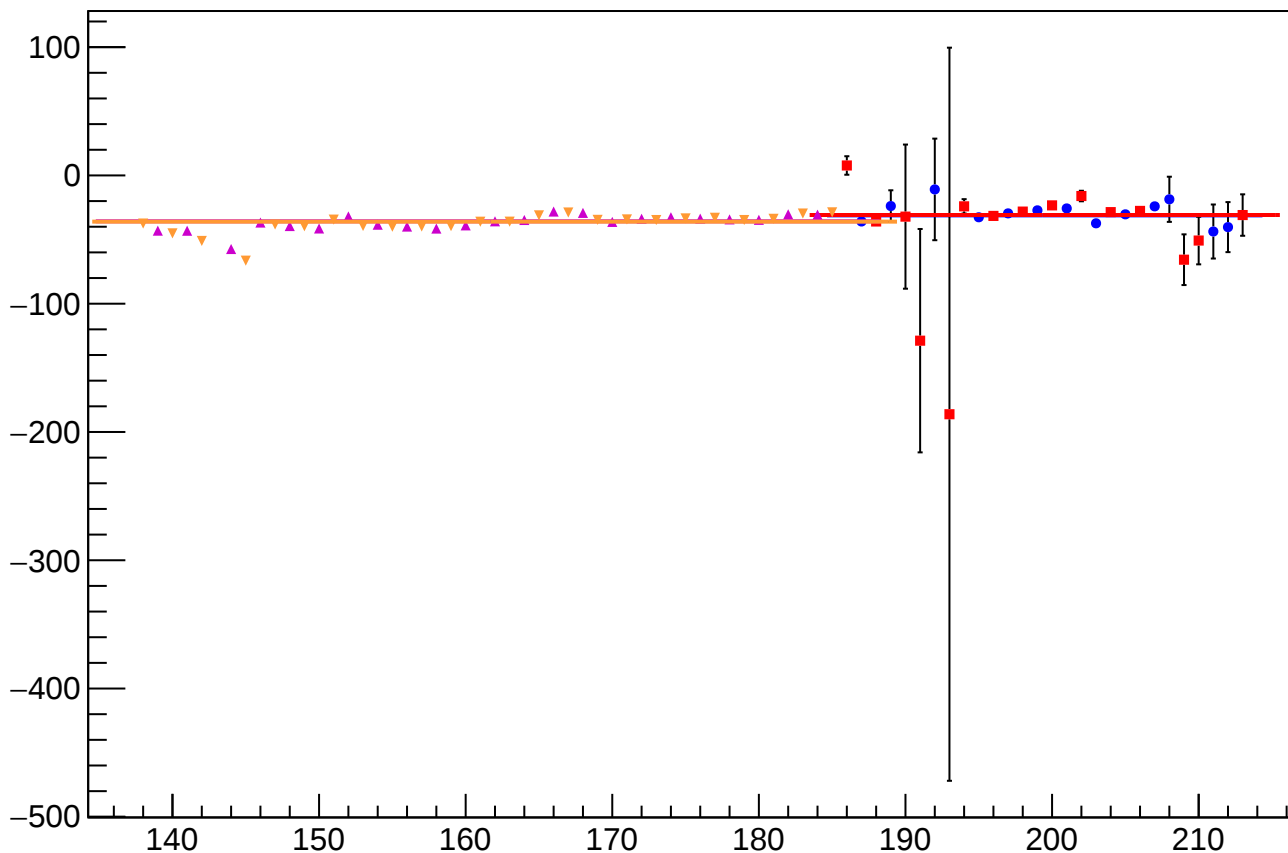
Right: -20.367+/-0.011 χ^2/NDF : 124477.2/61

In: -19.896+/-0.007 χ^2/NDF :171339.8/51

Out: -20.190+/-0.007 χ^2/NDF :269512.3/56

All: -20.042+/-0.005 χ^2/NDF : 441746.9/108

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected

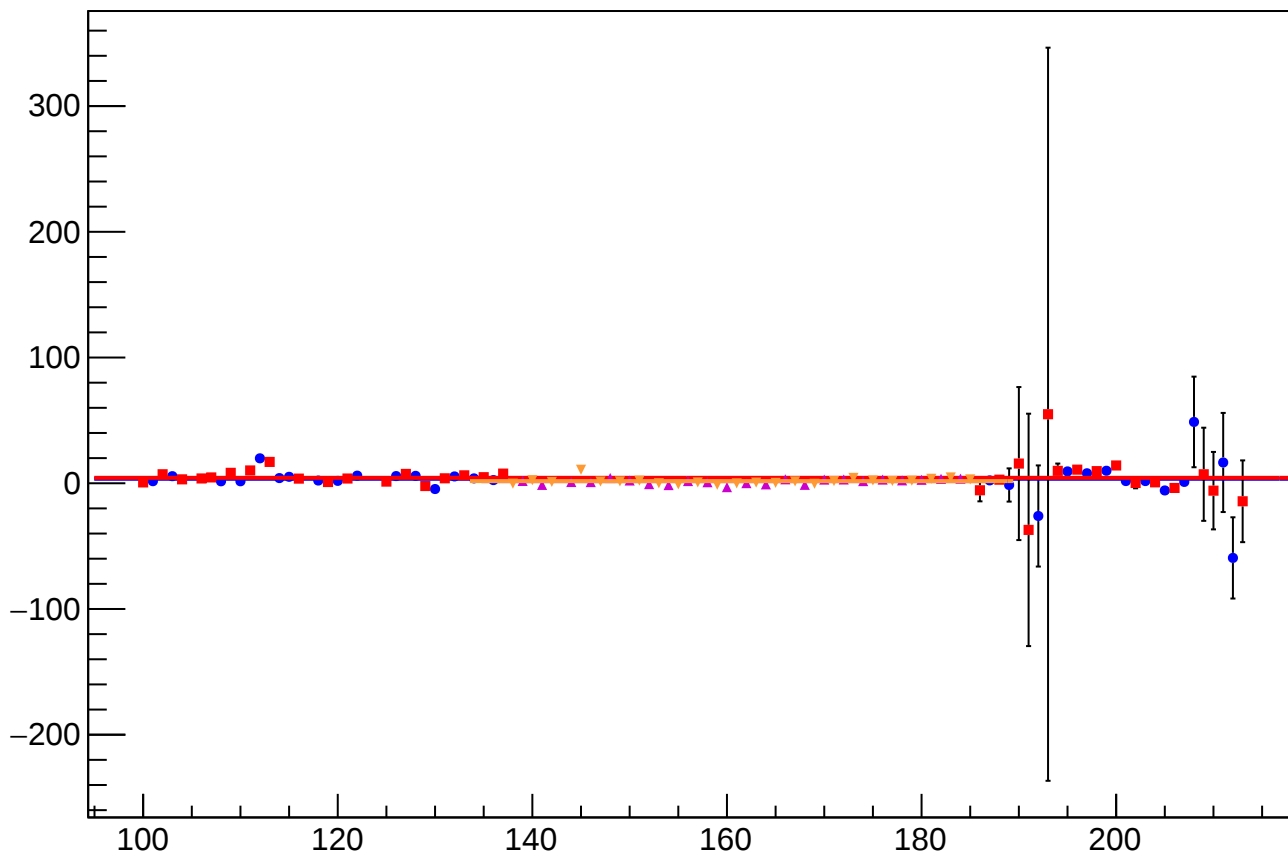


Right In: -31.129 ± 0.859 $\chi^2/\text{NDF}: 28.6/12$
 Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -30.852 ± 0.808 $\chi^2/\text{NDF}: 76.2/14$
 Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$
 Right: -30.982 ± 0.589 $\chi^2/\text{NDF}: 104.9/27$
 In: -35.548 ± 0.187 $\chi^2/\text{NDF}: 898.9/35$
 Out: -35.754 ± 0.187 $\chi^2/\text{NDF}: 1236.3/38$

All: -35.651 ± 0.132 $\chi^2/\text{NDF}: 2135.9/74$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.567 ± 0.217 χ^2/NDF : 461.5/28

Left Out: 1.724 ± 0.148 χ^2/NDF : 168.2/23

Right Out: 4.320 ± 0.217 χ^2/NDF : 378.7/32

Left In: 1.705 ± 0.149 χ^2/NDF : 163.0/22

Left: 1.714 ± 0.105 χ^2/NDF : 331.1/46

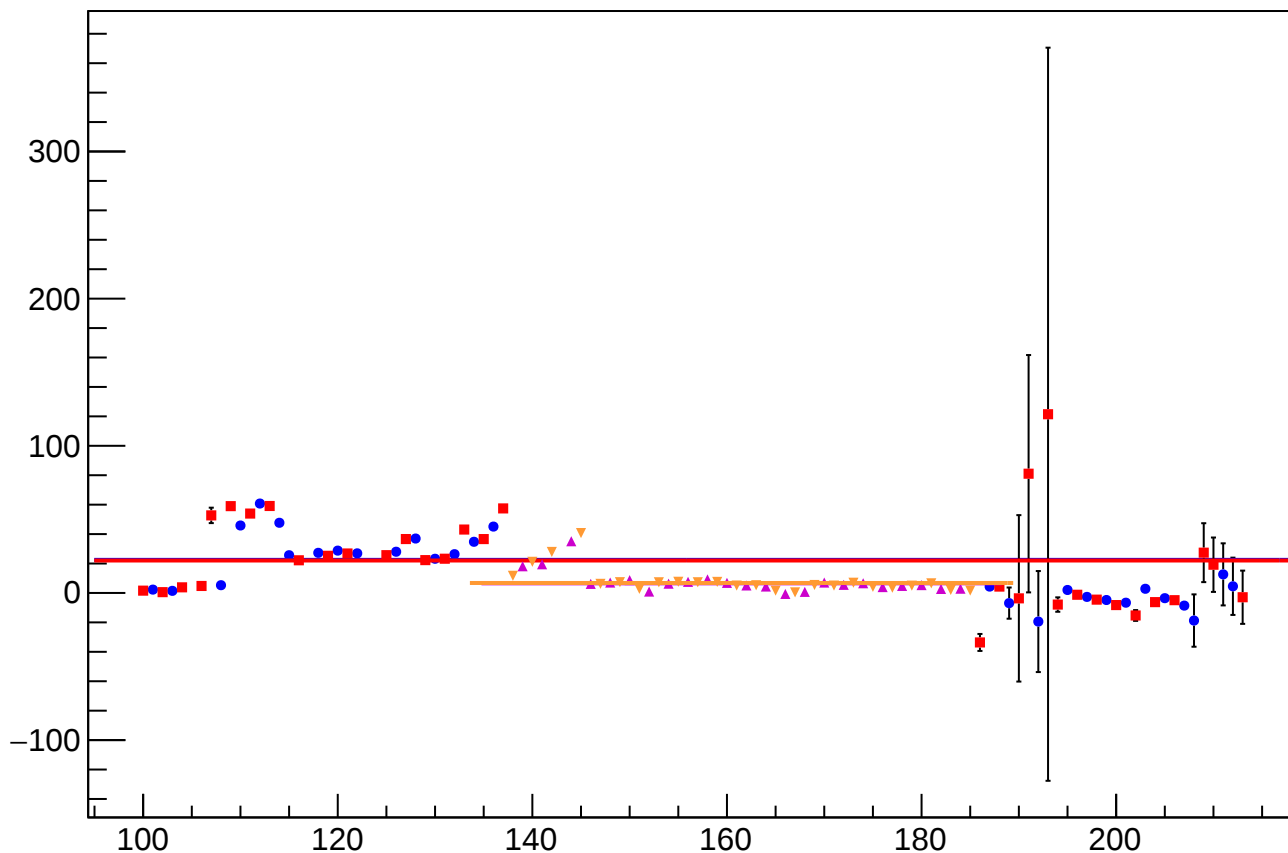
Right: 3.943 ± 0.153 χ^2/NDF : 846.2/61

In: 2.306 ± 0.123 χ^2/NDF : 674.5/51

Out: 2.545 ± 0.122 χ^2/NDF : 644.7/56

All: 2.426 ± 0.087 χ^2/NDF : 1321.1/108

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.483 $\pm$ 0.370 χ^2 /NDF: 2700.7/28

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF:1297.7/23

Right Out: 22.054 $\pm$ 0.349 χ^2 /NDF: 3661.2/32

Left In: 6.532 $\pm$ 0.190 χ^2 /NDF:1018.2/22

Left: 6.655 $\pm$ 0.135 χ^2 /NDF: 2316.7/46

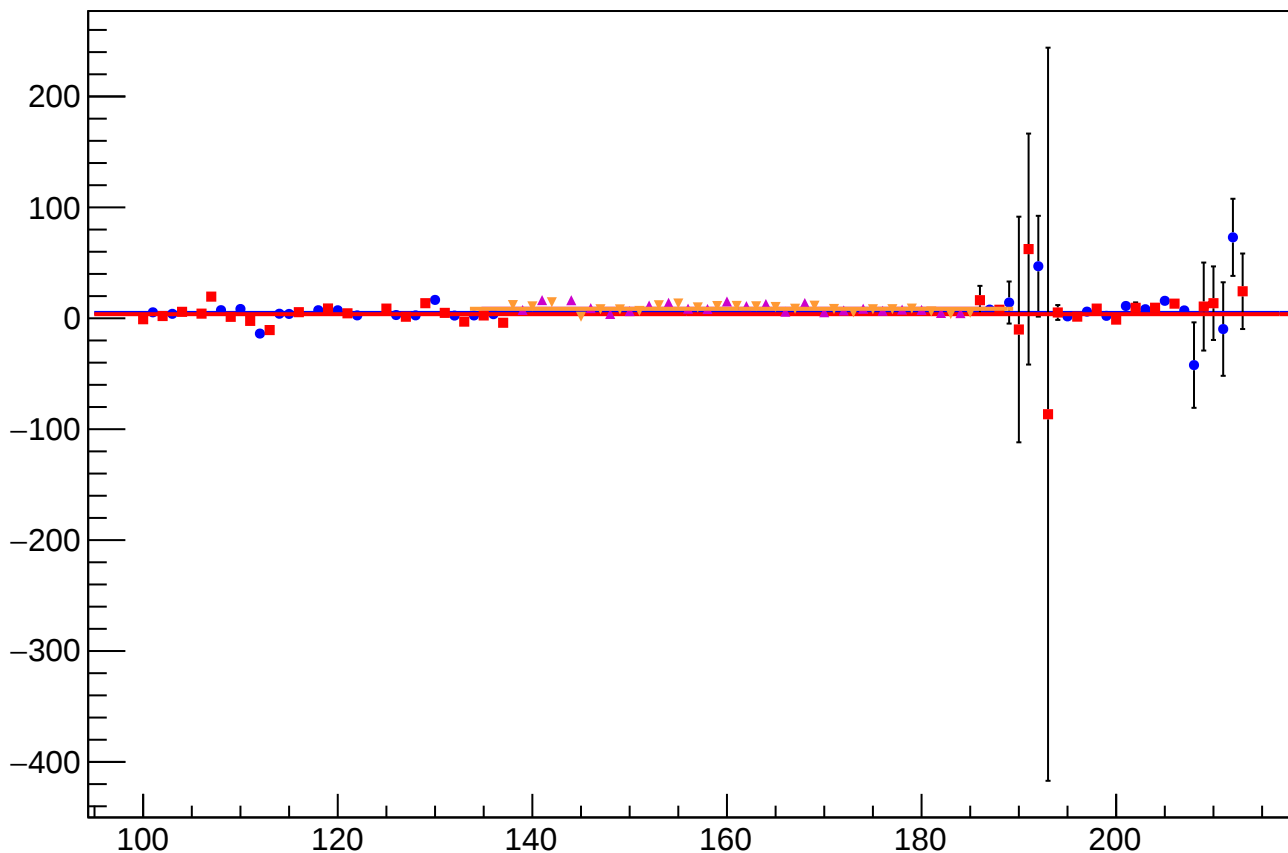
Right: 22.256 $\pm$ 0.254 χ^2 /NDF: 6362.6/61

In: 9.870 $\pm$ 0.169 χ^2 /NDF:5189.3/51

Out: 10.309 $\pm$ 0.168 χ^2 /NDF:6432.7/56

All: 10.091 $\pm$ 0.119 χ^2 /NDF: 11625.4/108

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.848 $\pm$ 0.250 χ^2 /NDF: 564.4/28

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF:245.5/23

Right Out: 3.699 $\pm$ 0.250 χ^2 /NDF: 589.4/32

Left In: 8.585 $\pm$ 0.170 χ^2 /NDF:441.8/22

Left: 8.585 $\pm$ 0.120 χ^2 /NDF: 687.3/46

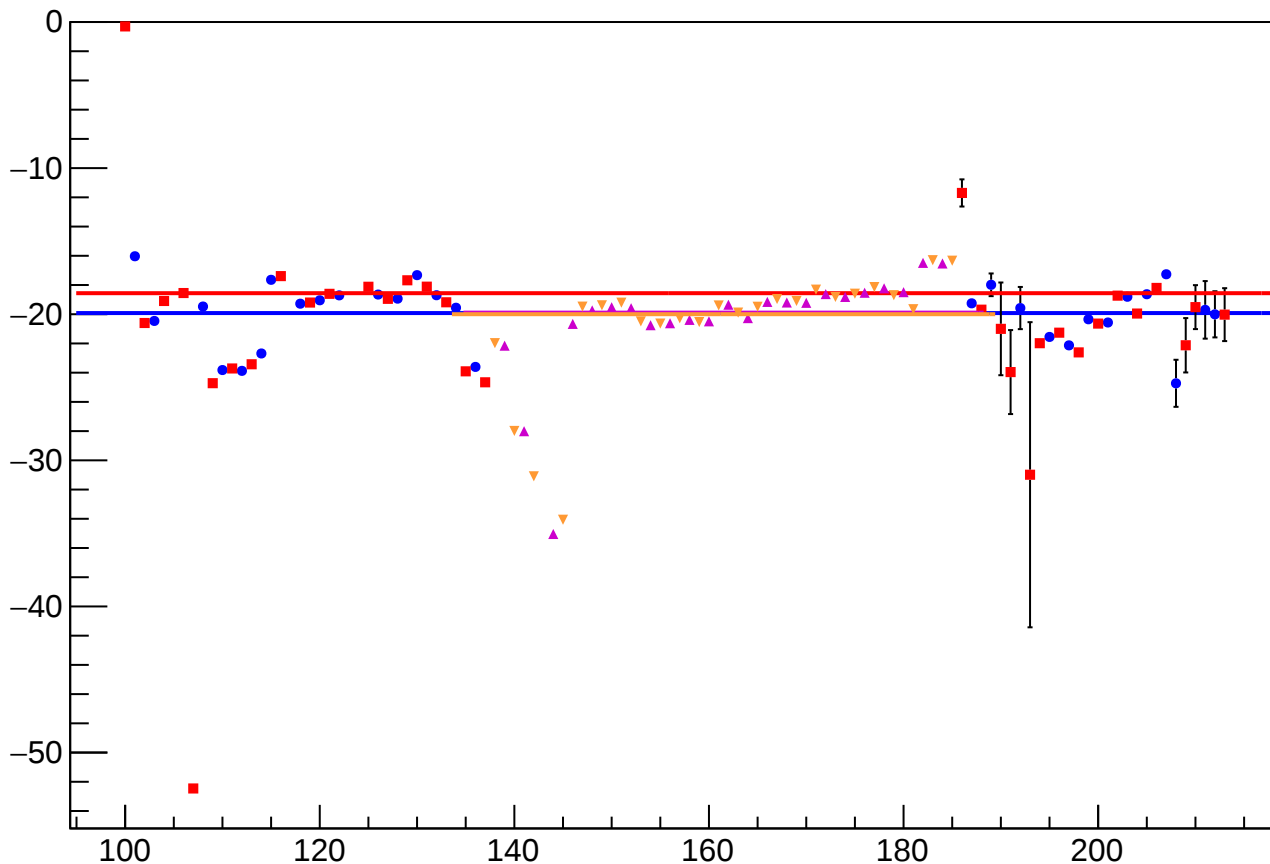
Right: 4.274 $\pm$ 0.177 χ^2 /NDF: 1164.4/61

In: 7.402 $\pm$ 0.141 χ^2 /NDF:1159.0/51

Out: 7.056 $\pm$ 0.140 χ^2 /NDF:1097.0/56

All: 7.228 $\pm$ 0.099 χ^2 /NDF: 2259.0/108

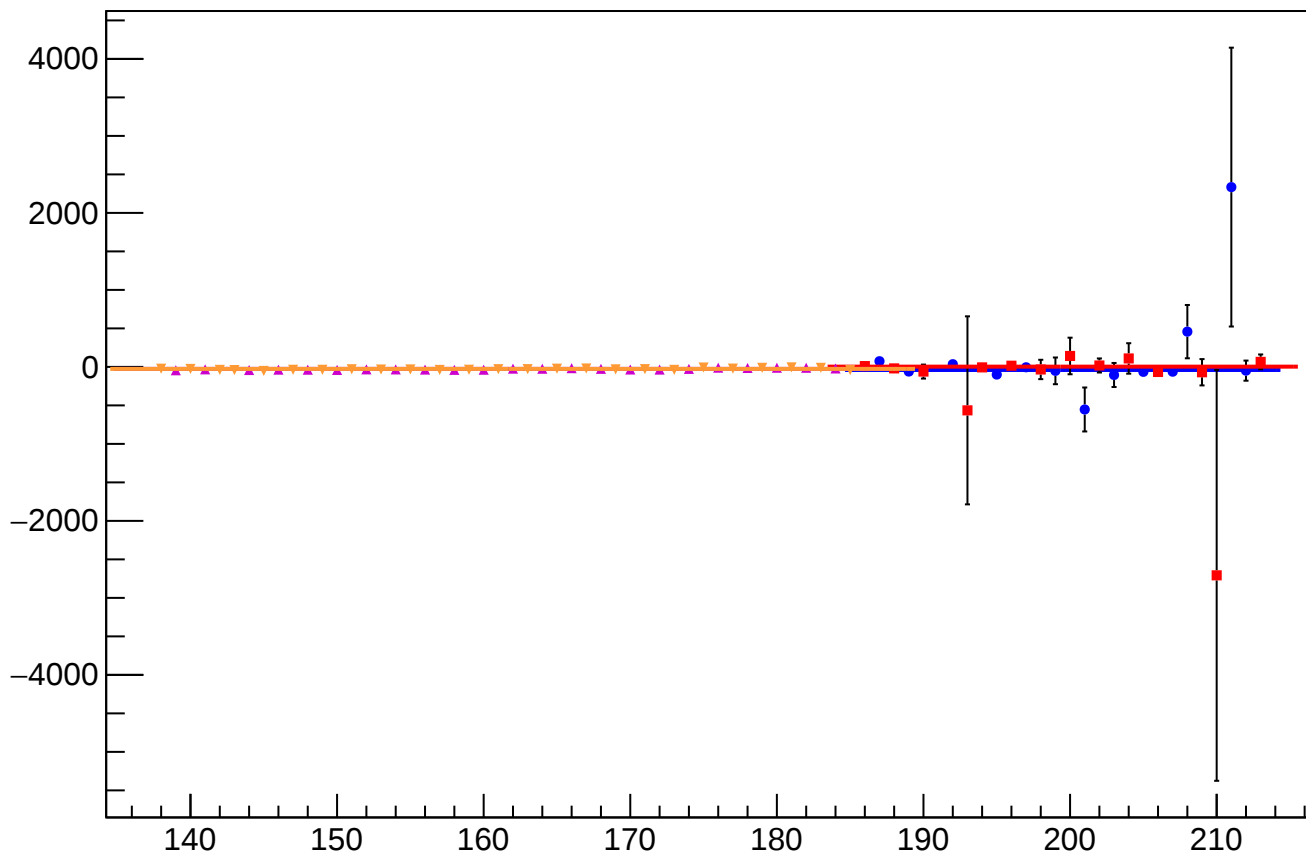
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920 ± 0.015 $\chi^2/\text{NDF}: 27097.2/28$
 Left Out: -19.998 ± 0.008 $\chi^2/\text{NDF}: 171944.6/23$
 Right Out: -18.560 ± 0.014 $\chi^2/\text{NDF}: 303728.8/32$
 Left In: -19.890 ± 0.008 $\chi^2/\text{NDF}: 144055.2/22$

Left: -19.944 ± 0.006 $\chi^2/\text{NDF}: 316093.4/46$
 Right: -19.205 ± 0.010 $\chi^2/\text{NDF}: 335246.0/61$
 In: -19.897 ± 0.007 $\chi^2/\text{NDF}: 171155.5/51$
 Out: -19.655 ± 0.007 $\chi^2/\text{NDF}: 483604.0/56$
 All: -19.775 ± 0.005 $\chi^2/\text{NDF}: 655373.2/108$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected

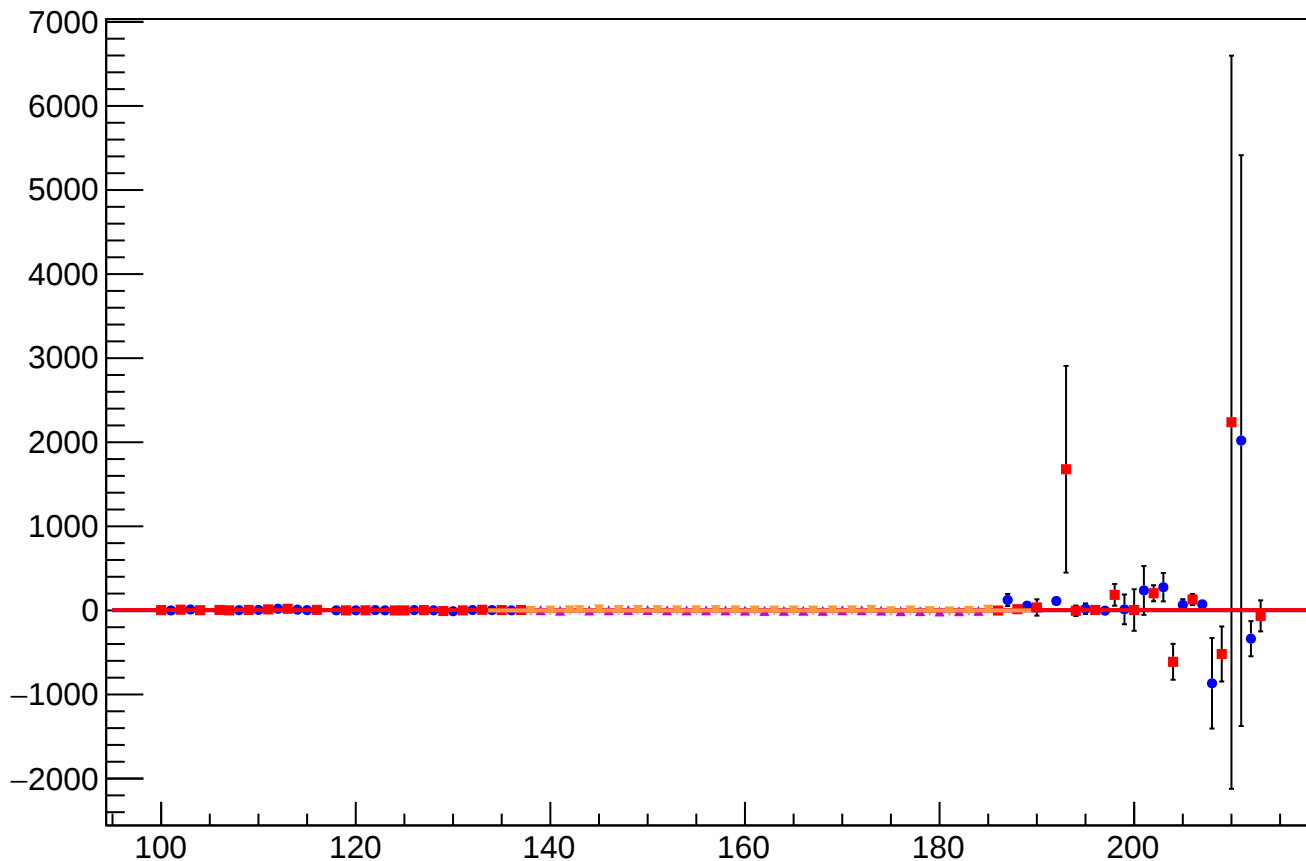


Right In: -39.962 ± 12.985 χ^2/NDF : 19.7/12
 Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24
 Right Out: 3.212 ± 8.082 χ^2/NDF : 7.2/13
 Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47
 Right: -8.844 ± 6.862 χ^2/NDF : 34.9/26
 In: -26.055 ± 0.195 χ^2/NDF : 3300.4/35
 Out: -25.868 ± 0.192 χ^2/NDF : 4178.2/38

All: -25.960 ± 0.137 χ^2/NDF : 7479.0/74

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.476+/-0.315 χ^2/NDF : 319.2/29

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.715+/-0.327 χ^2/NDF : 292.7/32

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

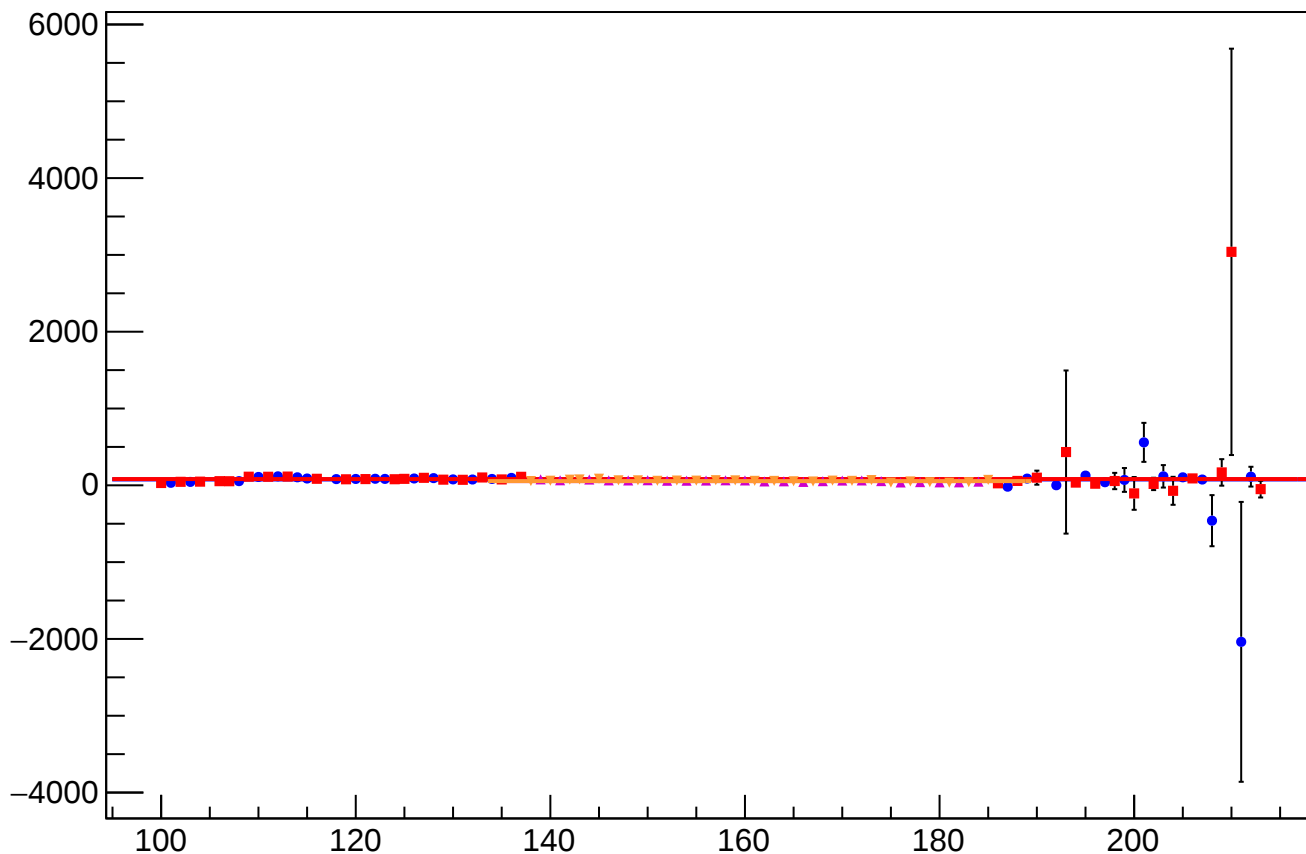
Right: 3.073+/-0.227 χ^2/NDF : 619.3/62

In: -0.242+/-0.136 χ^2/NDF : 1477.3/52

Out: 0.075+/-0.133 χ^2/NDF : 1762.6/57

All: -0.081+/-0.095 χ^2/NDF : 3242.7/110

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.532 $\pm$ 0.576 χ^2 /NDF: 2273.4/29

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.487 $\pm$ 0.590 χ^2 /NDF: 1635.6/32

Left In: 55.070 $\pm$ 0.193 χ^2 /NDF: 3702.8/22

Left: 55.084 $\pm$ 0.136 χ^2 /NDF: 8282.1/47

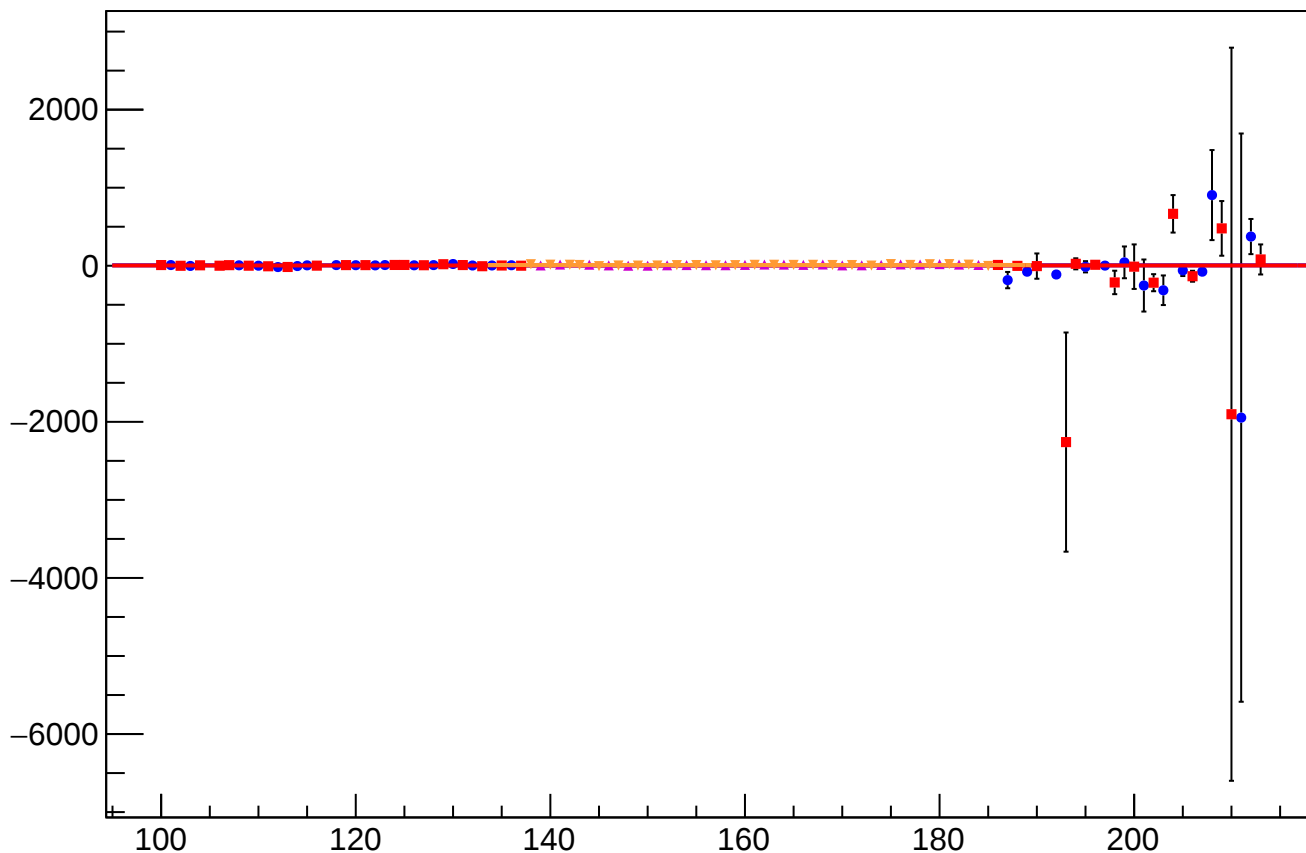
Right: 78.949 $\pm$ 0.412 χ^2 /NDF: 3945.0/62

In: 57.245 $\pm$ 0.183 χ^2 /NDF: 7223.1/52

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8022.2/57

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15247.3/110

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.407 $\pm$ 0.361 χ^2 /NDF: 410.1/29

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.580 $\pm$ 0.375 χ^2 /NDF: 444.3/32

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

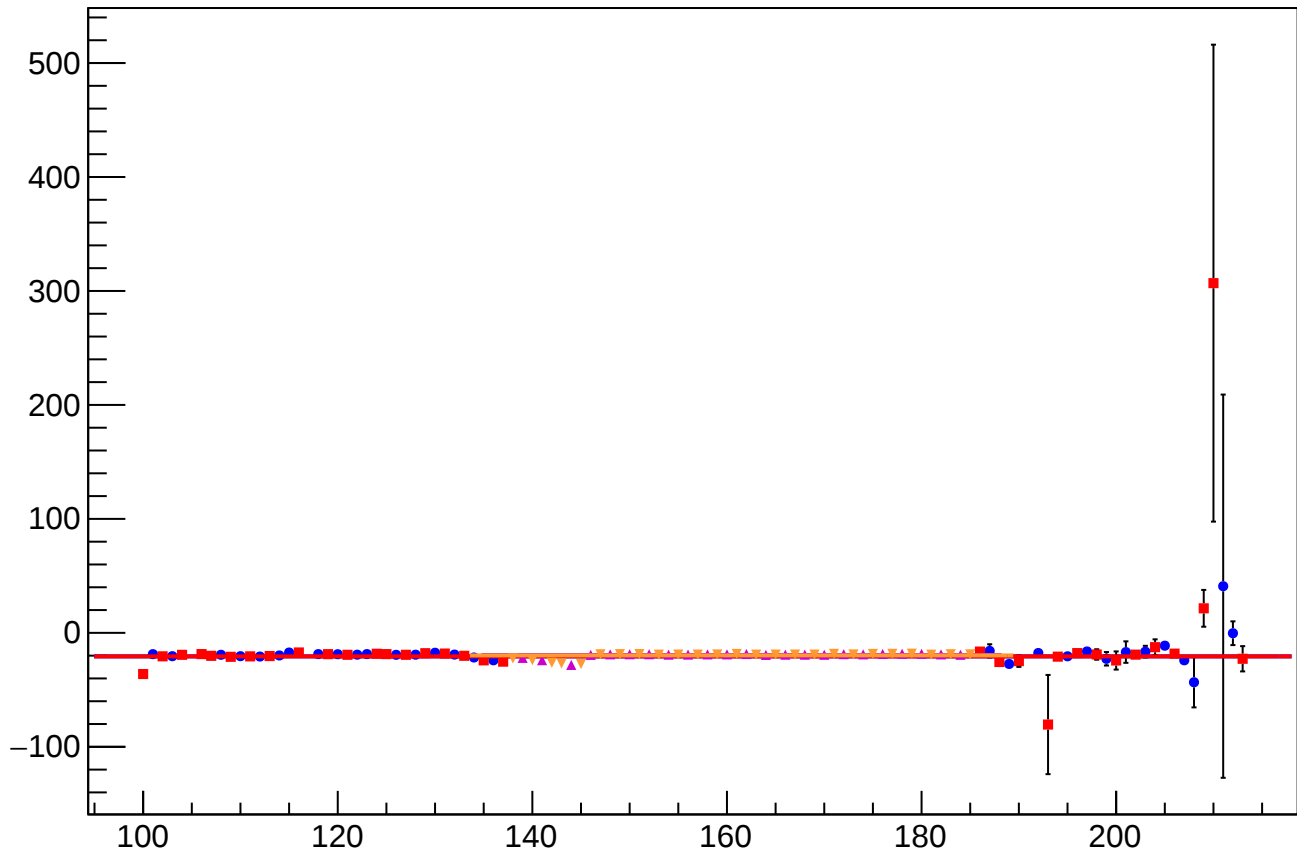
Right: 4.530 $\pm$ 0.260 χ^2 /NDF: 866.7/62

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1689.8/52

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2118.7/57

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3810.2/110

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12459.0/29

Left Out: -19.767 $\pm$ 0.008 χ^2 /NDF: 91617.3/24

Right Out: -20.638 $\pm$ 0.019 χ^2 /NDF: 13819.2/32

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

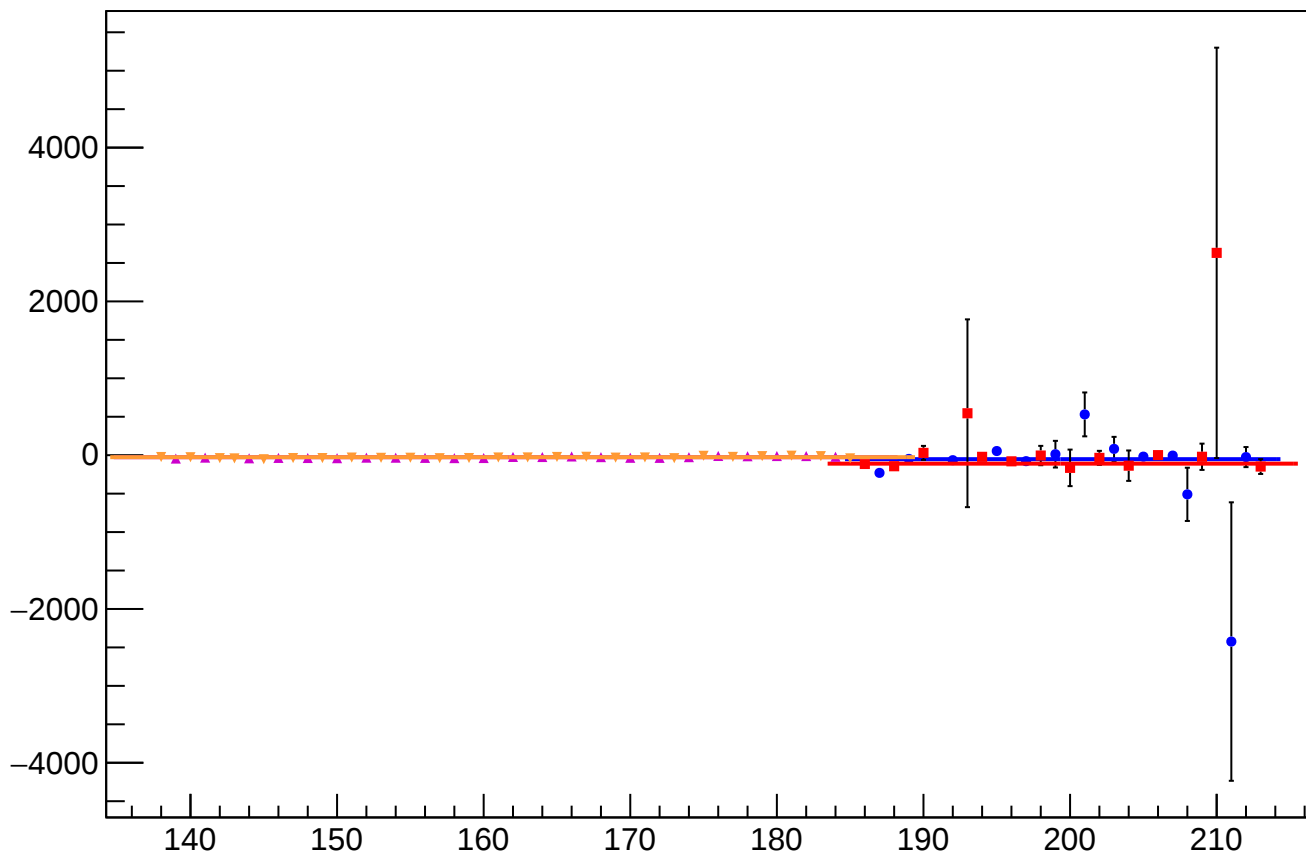
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26278.2/62

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68967.3/52

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107158.7/57

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176854.5/110

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



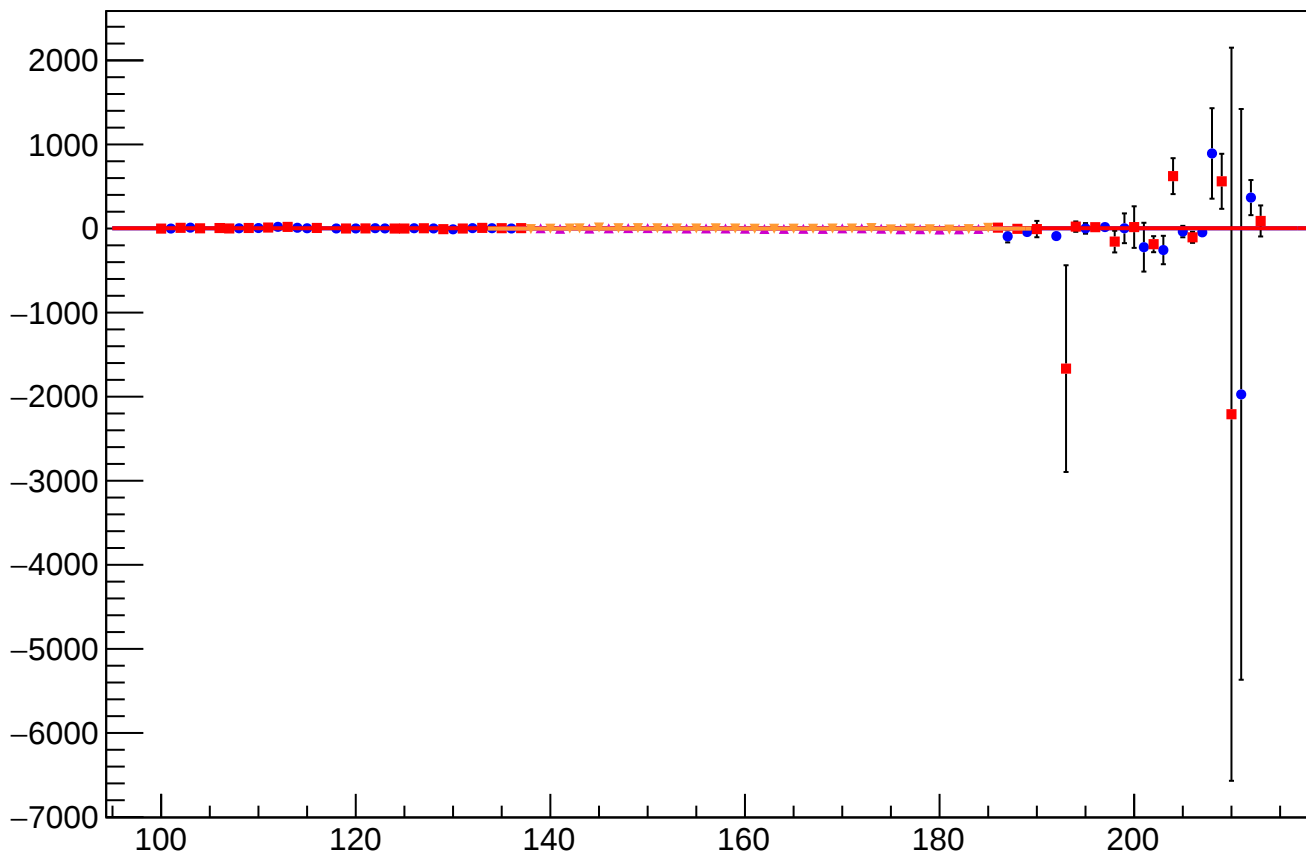
Right In: -51.840 ± 12.995 χ^2/NDF : 31.1/12
 Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24
 Right Out: -110.069 ± 8.088 χ^2/NDF : 17.0/13
 Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47
 Right: -93.810 ± 6.867 χ^2/NDF : 62.6/26

In: -26.052 ± 0.195 χ^2/NDF : 3281.7/35
 Out: -25.946 ± 0.192 χ^2/NDF : 4252.8/38

All: -25.998 ± 0.137 χ^2/NDF : 7534.7/74

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.439 ± 0.315 χ^2/NDF : 311.6/29

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.593 ± 0.318 χ^2/NDF : 302.4/32

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

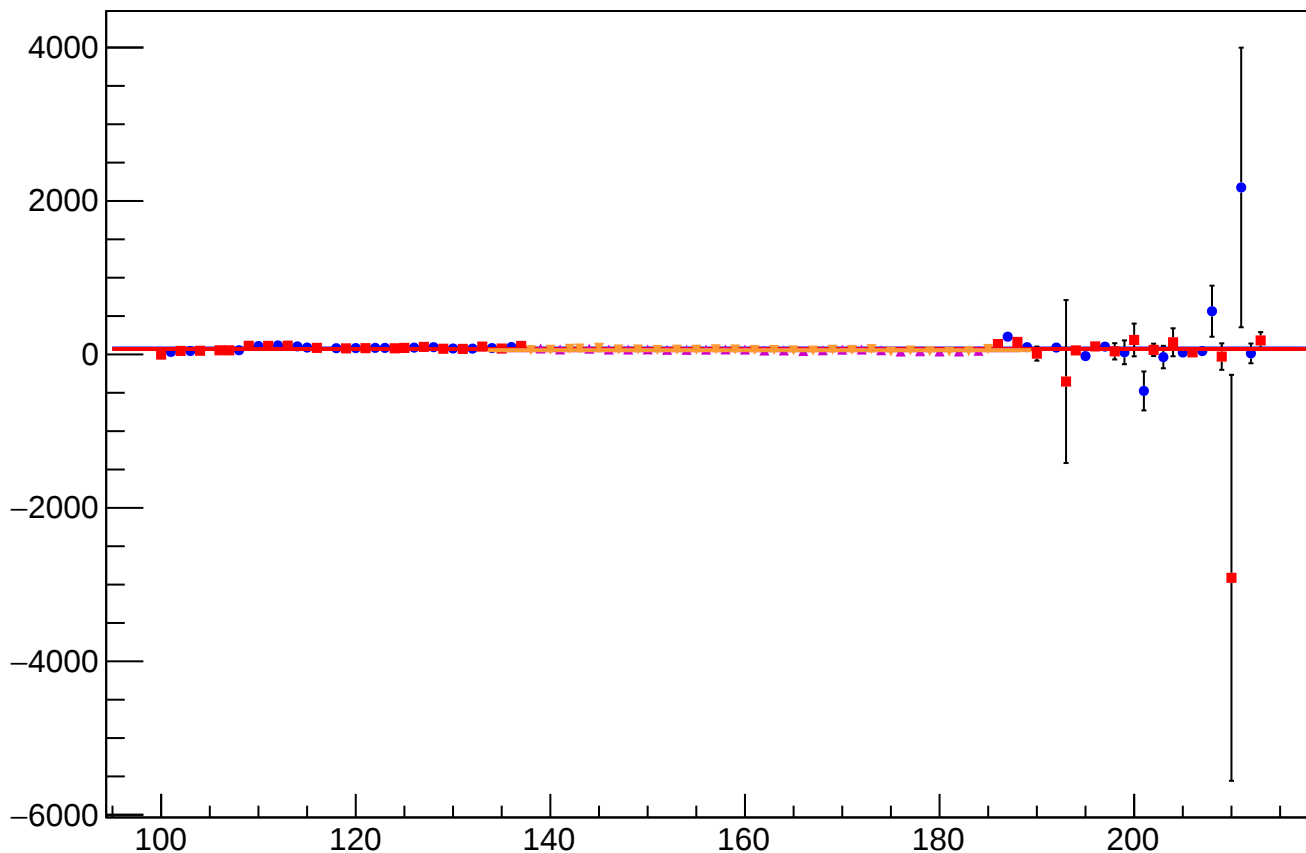
Right: 3.011 ± 0.224 χ^2/NDF : 620.7/62

In: -0.193 ± 0.136 χ^2/NDF : 1503.7/52

Out: 0.136 ± 0.133 χ^2/NDF : 1756.4/57

All: -0.025 ± 0.095 χ^2/NDF : 3263.2/110

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.709 $\pm$ 0.576 χ^2 /NDF: 2300.0/29

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.750 $\pm$ 0.549 χ^2 /NDF: 4495.1/32

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

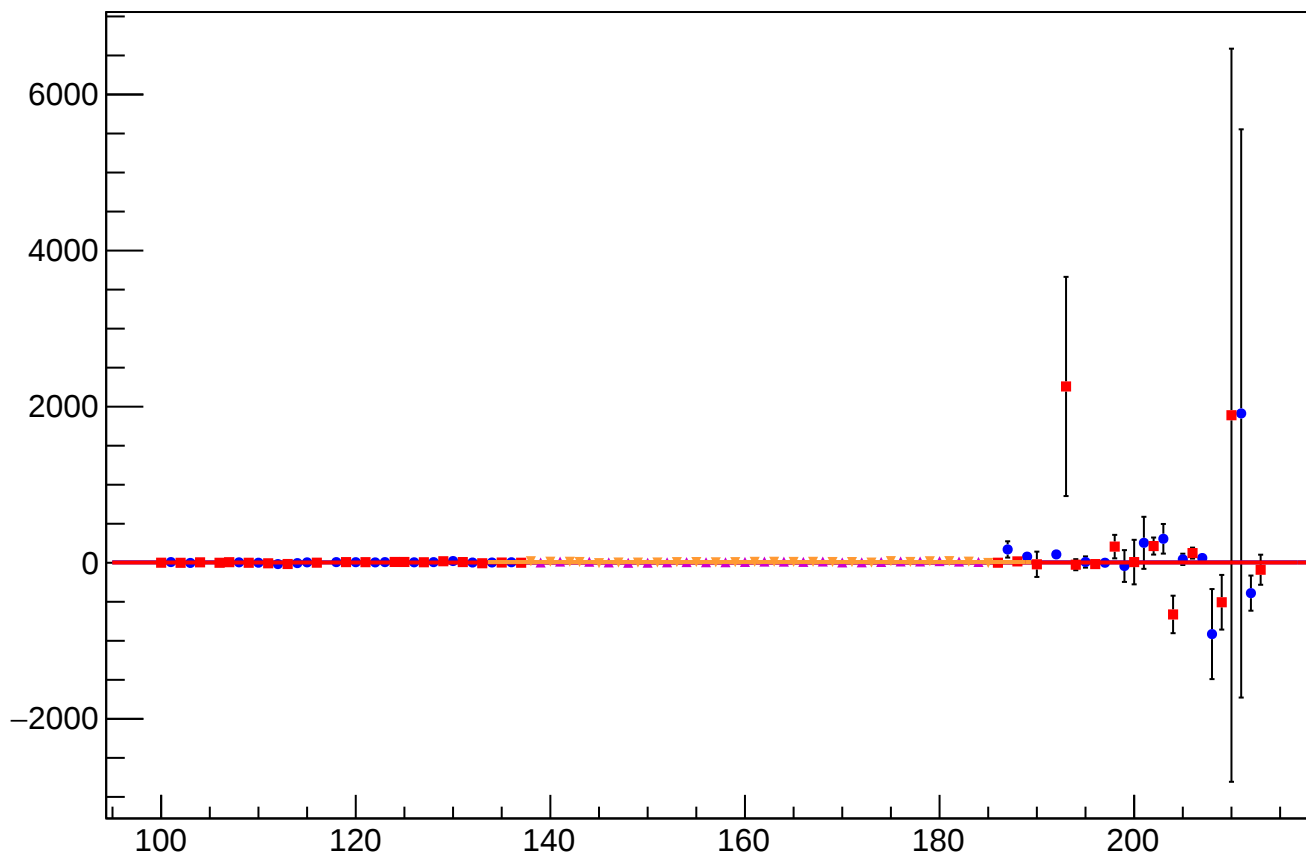
Right: 73.582 $\pm$ 0.397 χ^2 /NDF: 6851.1/62

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7227.9/52

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9779.6/57

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17010.9/110

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.444 $\pm$ 0.361 χ^2 /NDF: 404.2/29

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.282 $\pm$ 0.365 χ^2 /NDF: 446.7/32

Left In: 9.738 $\pm$ 0.172 χ^2 /NDF:1191.1/22

Left: 9.706 $\pm$ 0.120 χ^2 /NDF: 2632.6/47

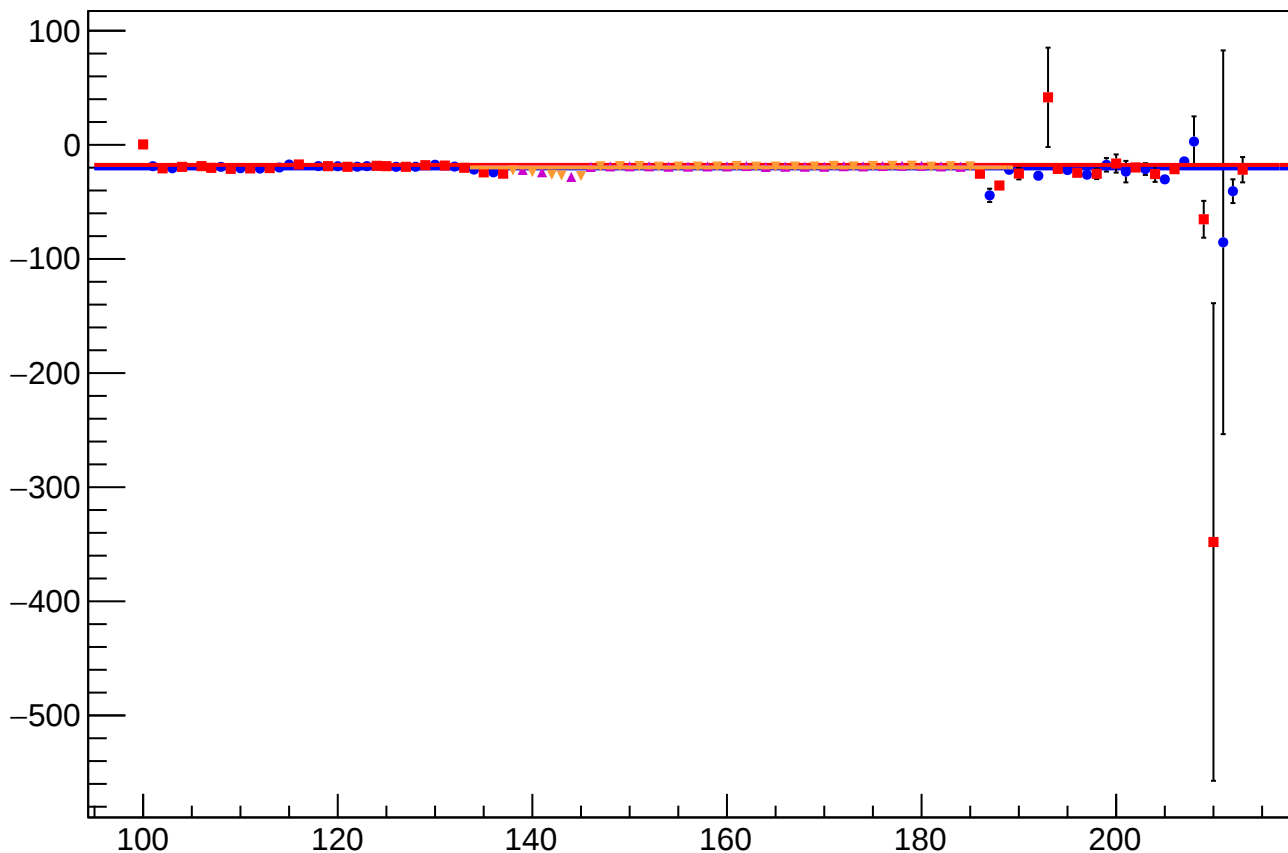
Right: 4.377 $\pm$ 0.257 χ^2 /NDF: 868.6/62

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1710.6/52

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2140.8/57

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3854.5/110

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 $\chi^2/\text{NDF}: 12519.7/29$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.575 ± 0.018 $\chi^2/\text{NDF}: 178452.9/32$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

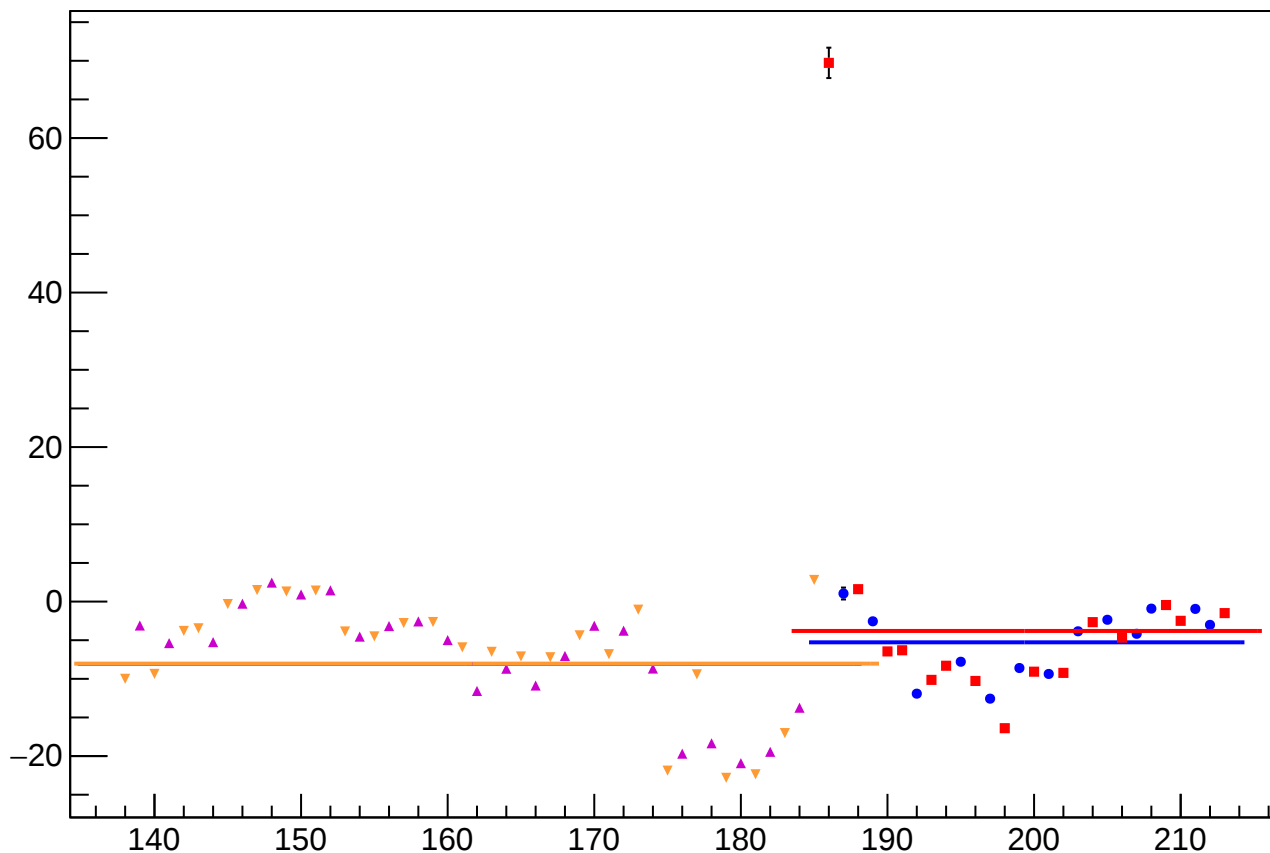
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204442.8/62$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68941.5/52$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282439.7/57$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351744.4/110$

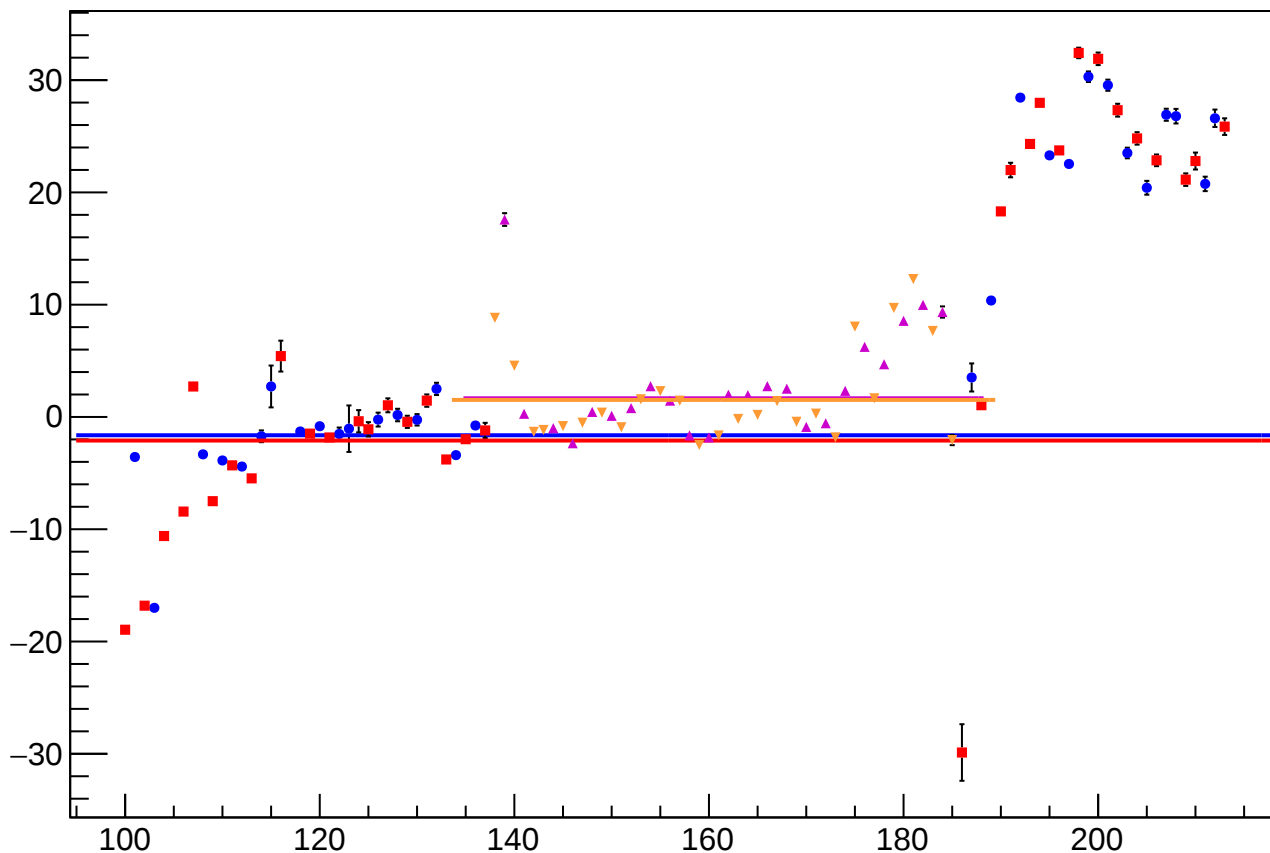
reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.275 ± 0.110 χ^2/NDF : 1398.7/12
 Left Out: -8.034 ± 0.070 χ^2/NDF : 12568.0/24
 Right Out: -3.803 ± 0.096 χ^2/NDF : 4140.7/14
 Left In: -8.078 ± 0.072 χ^2/NDF : 10541.6/22

Left: -8.055 ± 0.050 χ^2/NDF : 23109.8/47
 Right: -4.434 ± 0.072 χ^2/NDF : 5641.2/27
 In: -7.241 ± 0.060 χ^2/NDF : 12393.7/35
 Out: -6.548 ± 0.057 χ^2/NDF : 17980.7/39
 All: -6.873 ± 0.041 χ^2/NDF : 30444.7/75

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.630 ± 0.051 χ^2/NDF : 47738.4/29

Left Out: 1.518 ± 0.054 χ^2/NDF : 4847.5/24

Right Out: -2.101 ± 0.053 χ^2/NDF : 57979.1/33

Left In: 1.662 ± 0.057 χ^2/NDF : 4034.2/22

Left: 1.587 ± 0.039 χ^2/NDF : 8885.0/47

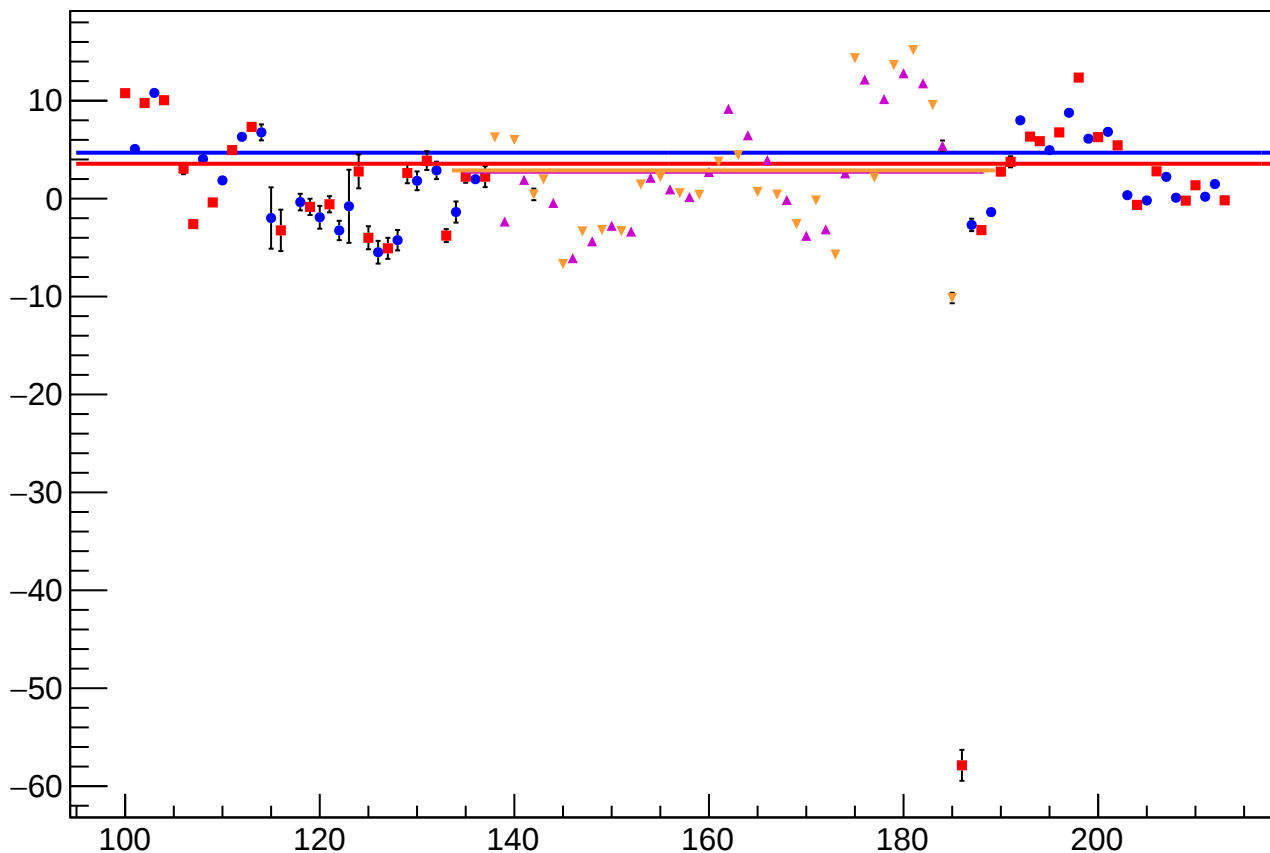
Right: -1.855 ± 0.037 χ^2/NDF : 105758.1/63

In: -0.149 ± 0.038 χ^2/NDF : 53635.3/52

Out: -0.325 ± 0.038 χ^2/NDF : 65083.9/58

All: -0.236 ± 0.027 χ^2/NDF : 118729.9/111

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.689 $\pm$ 0.068 χ^2 /NDF: 3074.2/29

Left Out: 2.884 $\pm$ 0.070 χ^2 /NDF:8893.2/24

Right Out: 3.561 $\pm$ 0.063 χ^2 /NDF: 8073.3/33

Left In: 2.745 $\pm$ 0.071 χ^2 /NDF:7183.1/22

Left: 2.816 $\pm$ 0.050 χ^2 /NDF: 16078.2/47

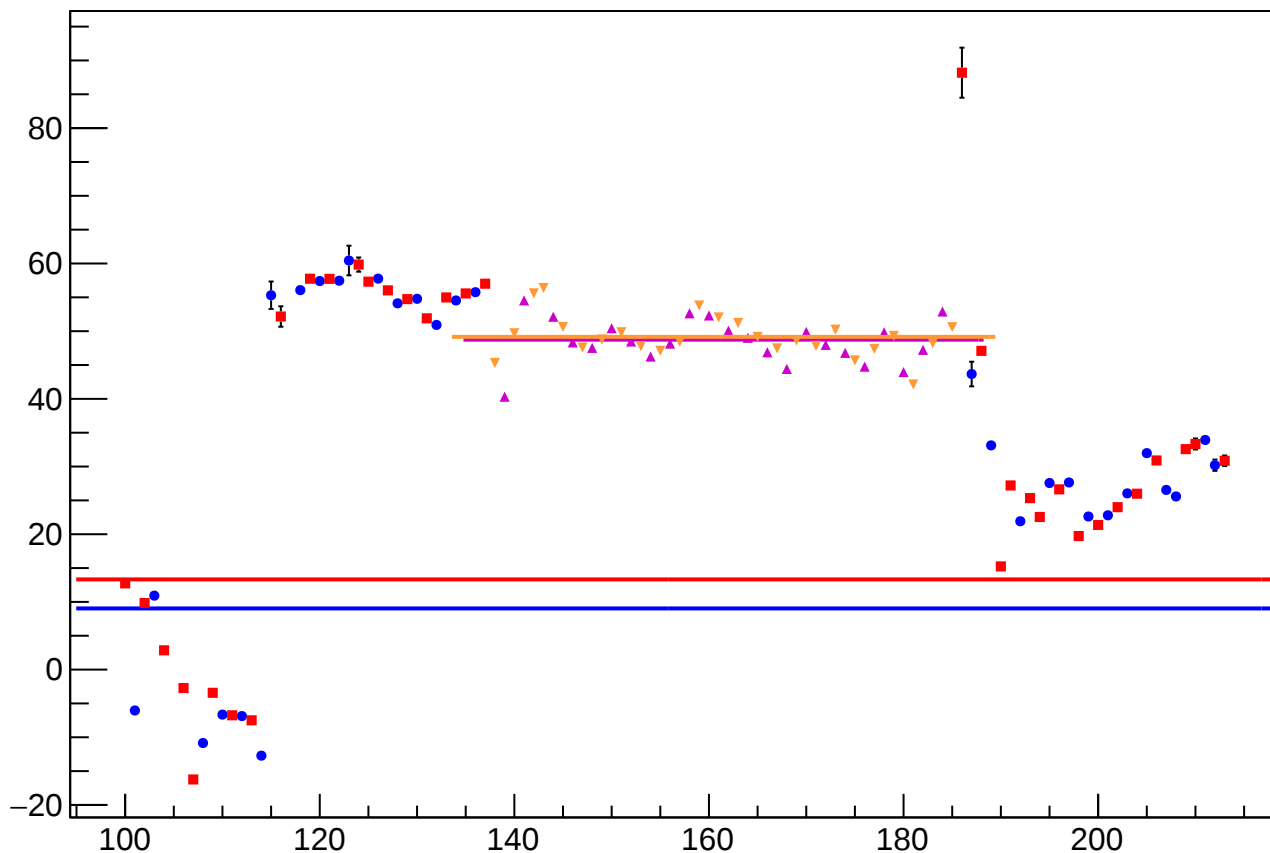
Right: 4.089 $\pm$ 0.046 χ^2 /NDF: 11295.4/63

In: 3.771 $\pm$ 0.049 χ^2 /NDF:10647.6/52

Out: 3.257 $\pm$ 0.047 χ^2 /NDF:17017.7/58

All: 3.503 $\pm$ 0.034 χ^2 /NDF: 27722.2/111

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.035+/-0.060 χ^2/NDF : 135030.1/29

Left Out: 49.163+/-0.062 χ^2/NDF :2259.9/24

Right Out: 13.323+/-0.063 χ^2/NDF : 137763.7/33

Left In: 48.744+/-0.064 χ^2/NDF :2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

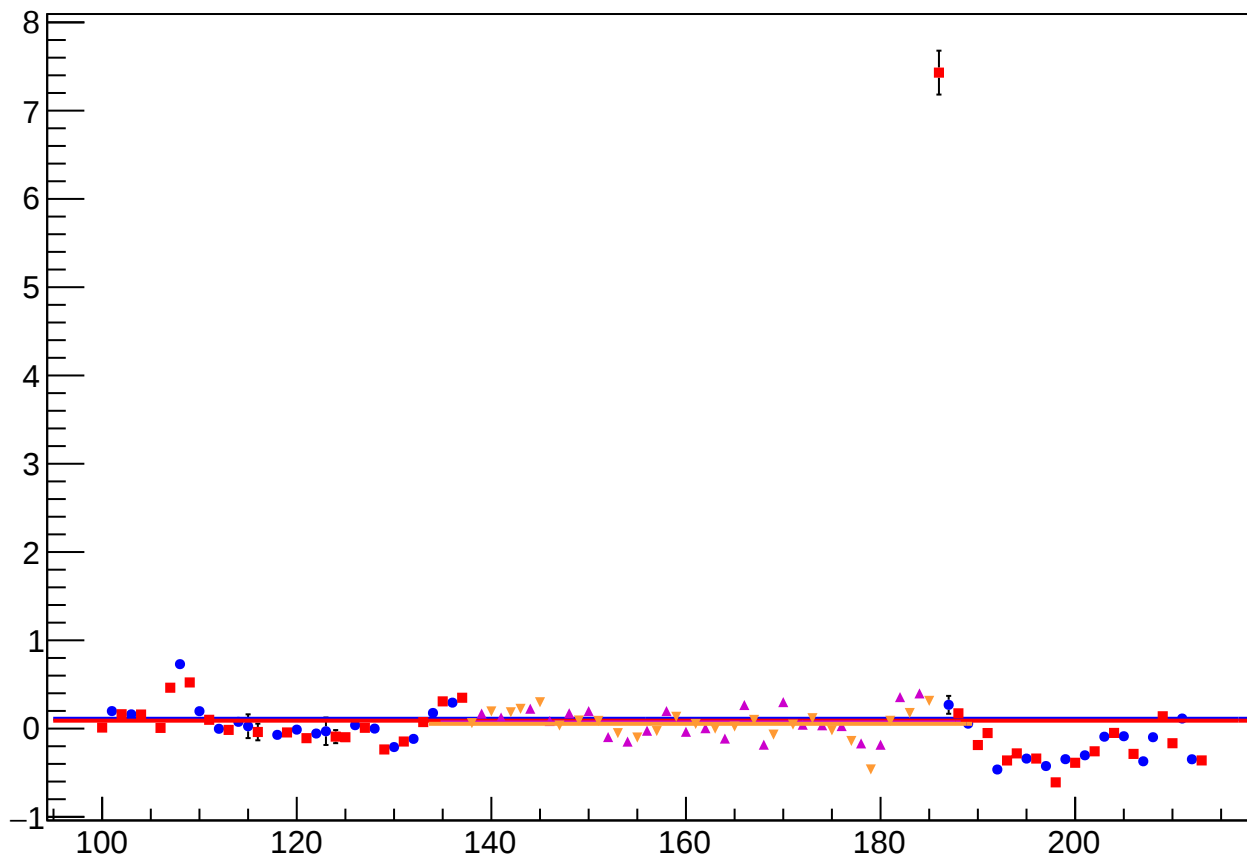
Right: 11.074+/-0.044 χ^2/NDF : 275201.7/63

In: 27.771+/-0.044 χ^2/NDF :341943.2/52

Out: 31.688+/-0.044 χ^2/NDF :304324.8/58

All: 29.712+/-0.031 χ^2/NDF : 650231.1/111

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.111+/-0.002 χ^2/NDF : 11711.1/29

Left Out: 0.054+/-0.003 χ^2/NDF :2379.8/24

Right Out: 0.090+/-0.002 χ^2/NDF : 11110.8/33

Left In: 0.070+/-0.003 χ^2/NDF :3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

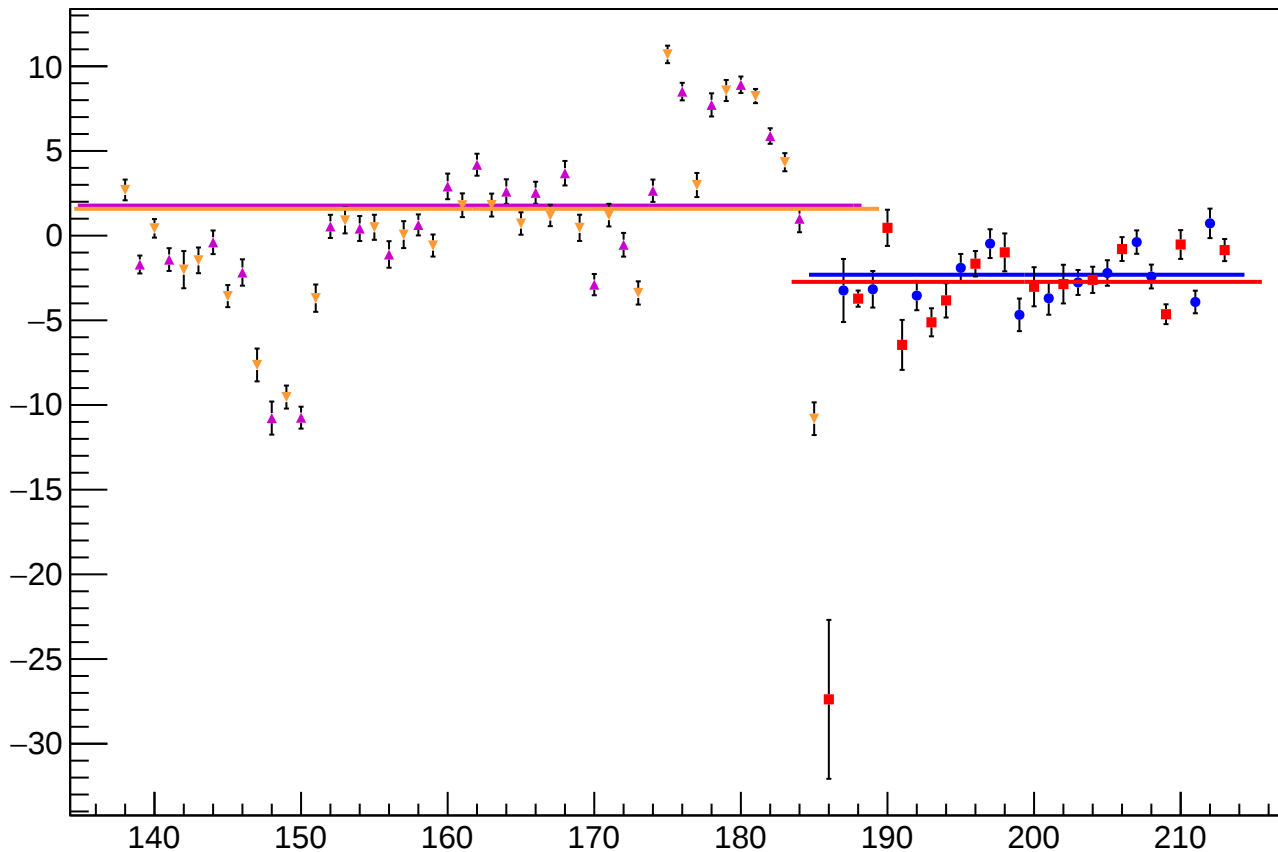
Right: 0.100+/-0.002 χ^2/NDF : 22861.0/63

In: 0.094+/-0.002 χ^2/NDF :15061.7/52

Out: 0.075+/-0.002 χ^2/NDF :13584.5/58

All: 0.084+/-0.001 χ^2/NDF : 28698.3/111

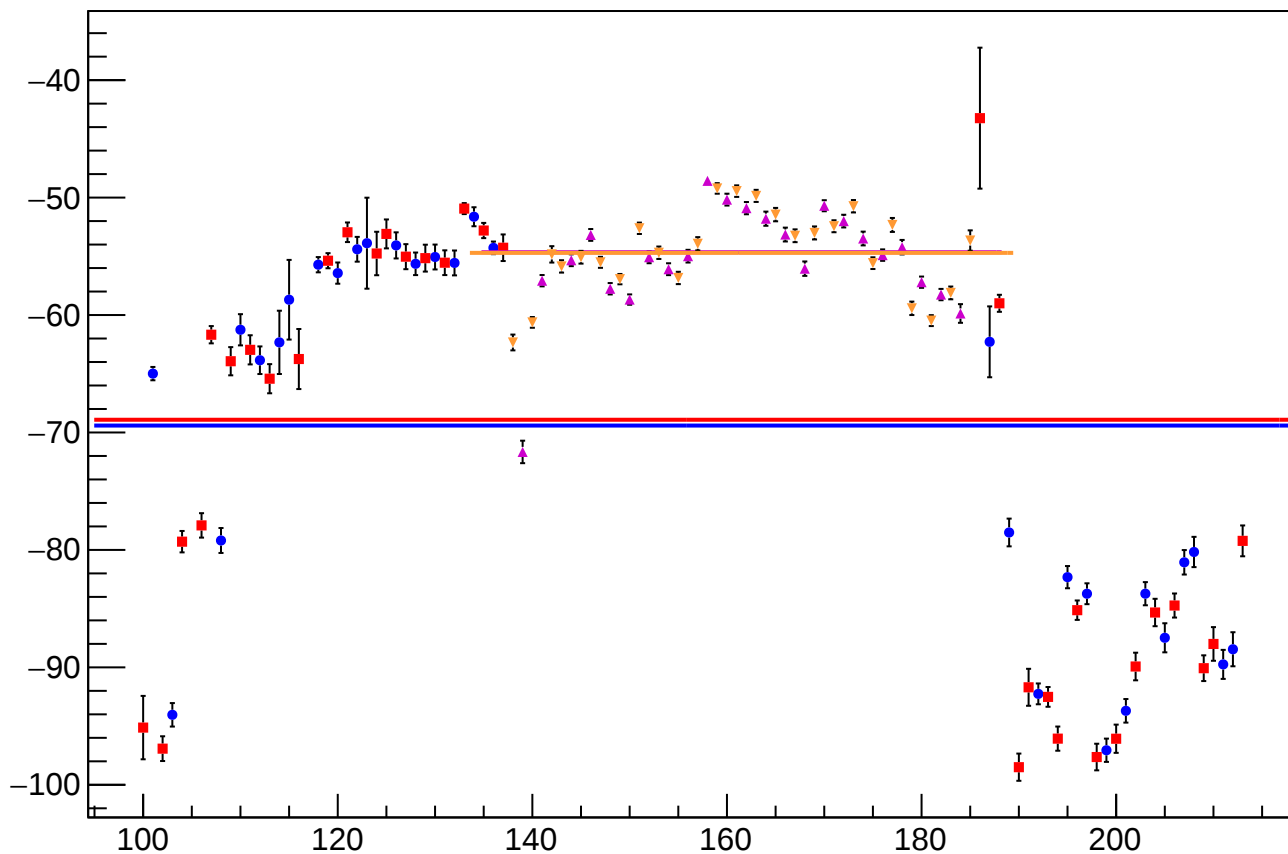
reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.309 ± 0.231 χ^2/NDF : 42.1/12
 Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24
 Right Out: -2.729 ± 0.210 χ^2/NDF : 94.5/14
 Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47
 Right: -2.539 ± 0.155 χ^2/NDF : 138.4/27
 In: 0.730 ± 0.117 χ^2/NDF : 1572.4/35
 Out: 0.355 ± 0.112 χ^2/NDF : 1854.5/39
 All: 0.535 ± 0.081 χ^2/NDF : 3432.3/75

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.411 ± 0.181 χ^2/NDF : 7322.6/29

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -68.916 ± 0.169 χ^2/NDF : 10374.7/33

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

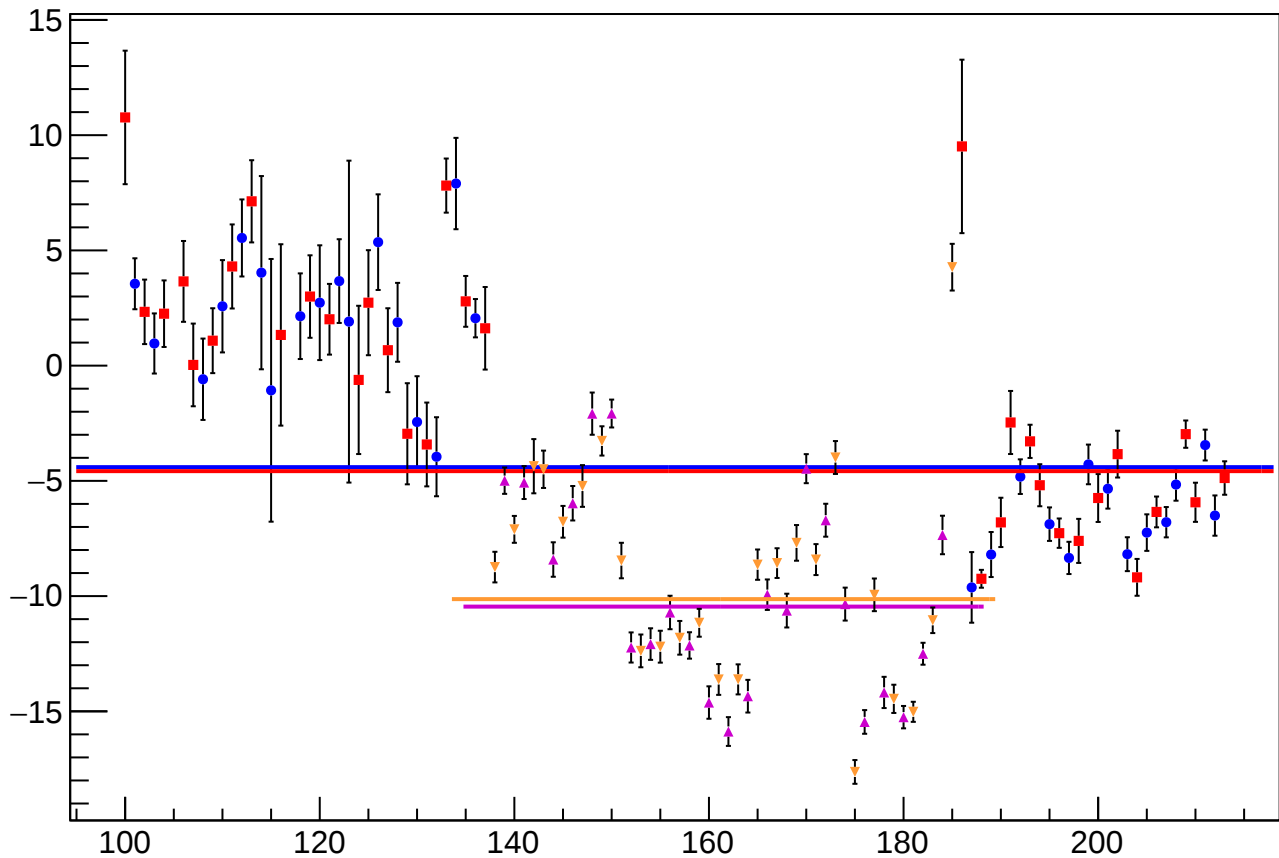
Right: -69.147 ± 0.124 χ^2/NDF : 17701.2/63

In: -58.622 ± 0.094 χ^2/NDF : 13264.8/52

Out: -58.693 ± 0.090 χ^2/NDF : 16570.8/58

All: -58.660 ± 0.065 χ^2/NDF : 29835.9/111

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.405 ± 0.191 χ^2/NDF : 435.0/29

Left Out: -10.131 ± 0.133 χ^2/NDF : 1055.4/24

Right Out: -4.578 ± 0.173 χ^2/NDF : 663.9/33

Left In: -10.456 ± 0.135 χ^2/NDF : 1002.7/22

Left: -10.291 ± 0.095 χ^2/NDF : 2061.1/47

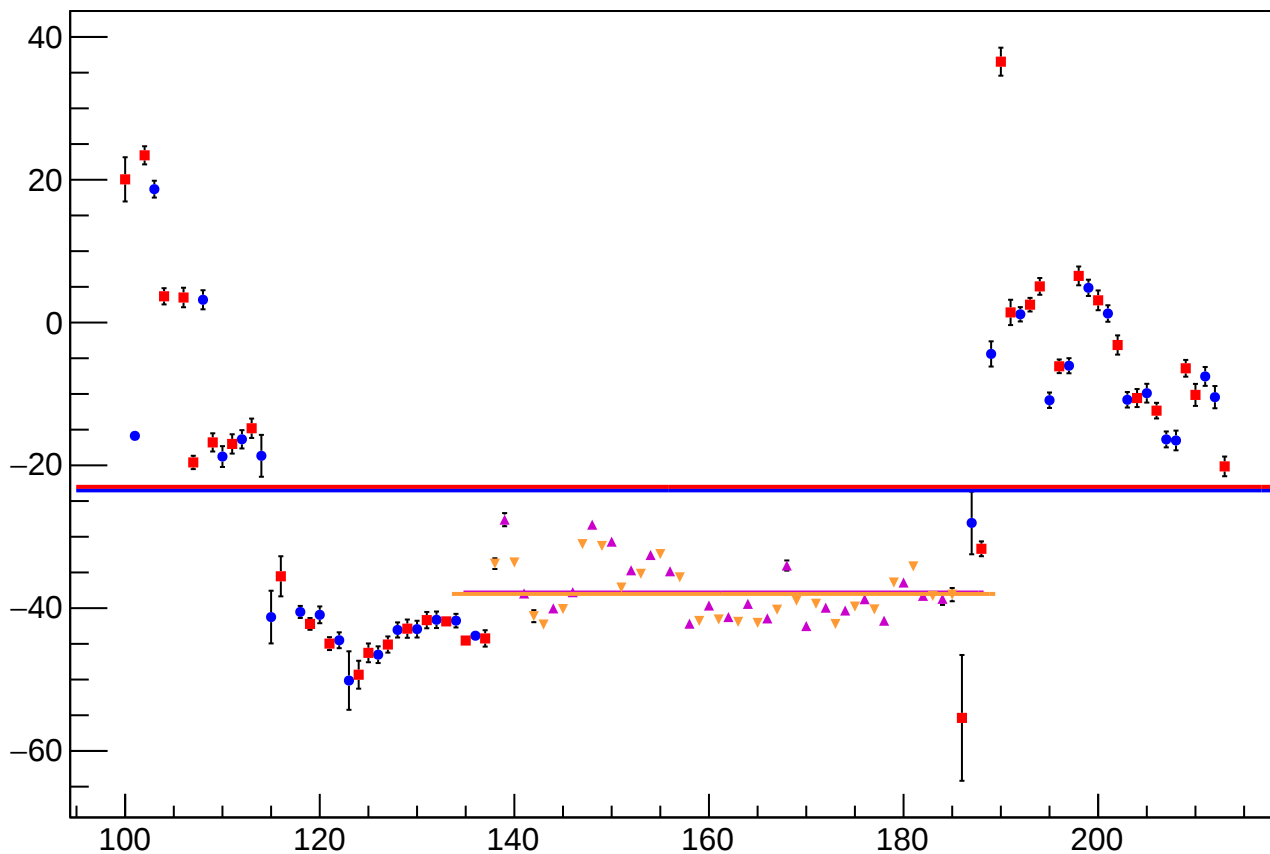
Right: -4.500 ± 0.128 χ^2/NDF : 1099.3/63

In: -8.454 ± 0.110 χ^2/NDF : 2106.1/52

Out: -8.077 ± 0.105 χ^2/NDF : 2366.1/58

All: -8.257 ± 0.076 χ^2/NDF : 4478.3/111

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.506 ± 0.206 $\chi^2/\text{NDF}: 8661.3/29$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -23.008 ± 0.196 $\chi^2/\text{NDF}: 11890.4/33$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

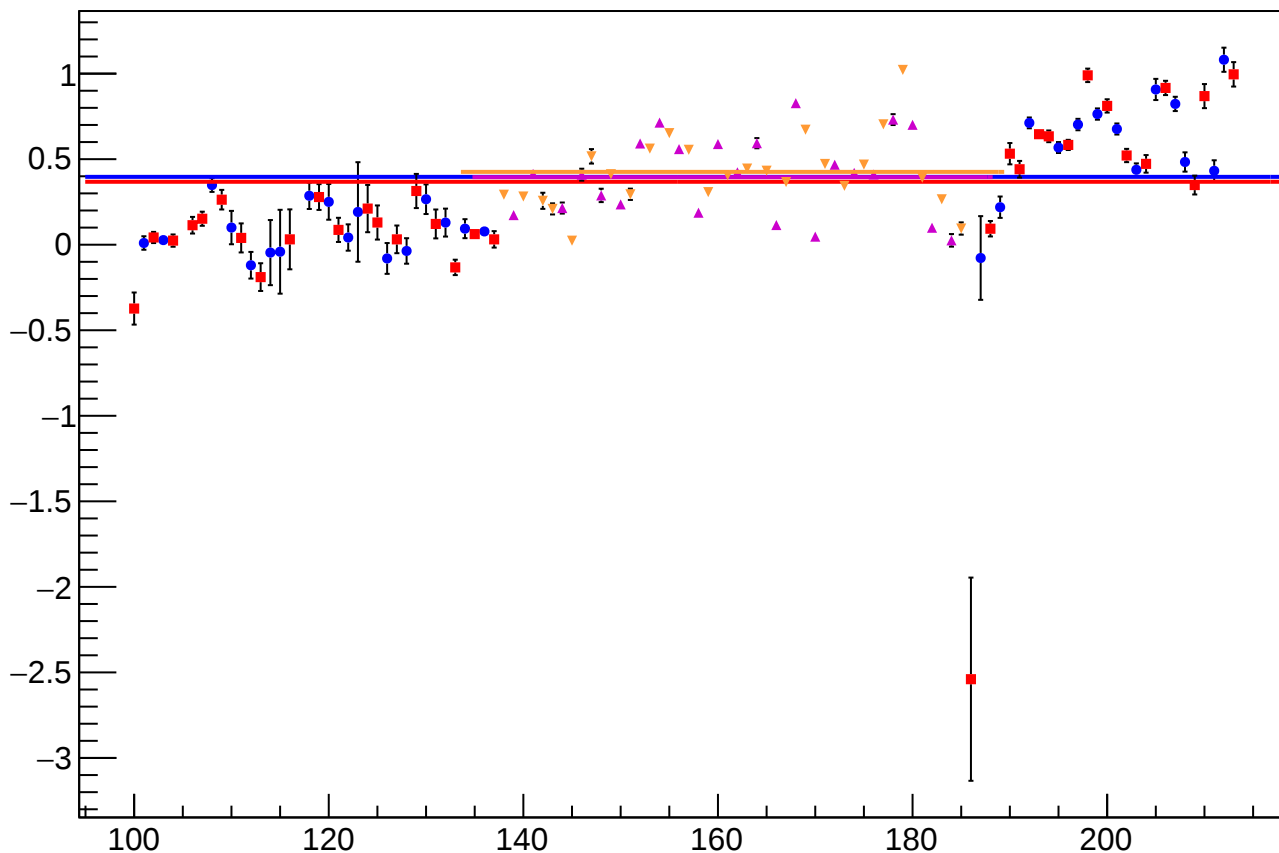
Right: -23.245 ± 0.142 $\chi^2/\text{NDF}: 20554.8/63$

In: -34.074 ± 0.105 $\chi^2/\text{NDF}: 13272.8/52$

Out: -33.986 ± 0.102 $\chi^2/\text{NDF}: 17112.7/58$

All: -34.029 ± 0.073 $\chi^2/\text{NDF}: 30385.9/111$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.397 $\pm$ 0.009 χ^2 /NDF: 1349.9/29

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.368 $\pm$ 0.008 χ^2 /NDF: 1706.2/33

Left In: 0.395 $\pm$ 0.005 χ^2 /NDF:1798.2/22

Left: 0.411 $\pm$ 0.004 χ^2 /NDF: 3118.1/47

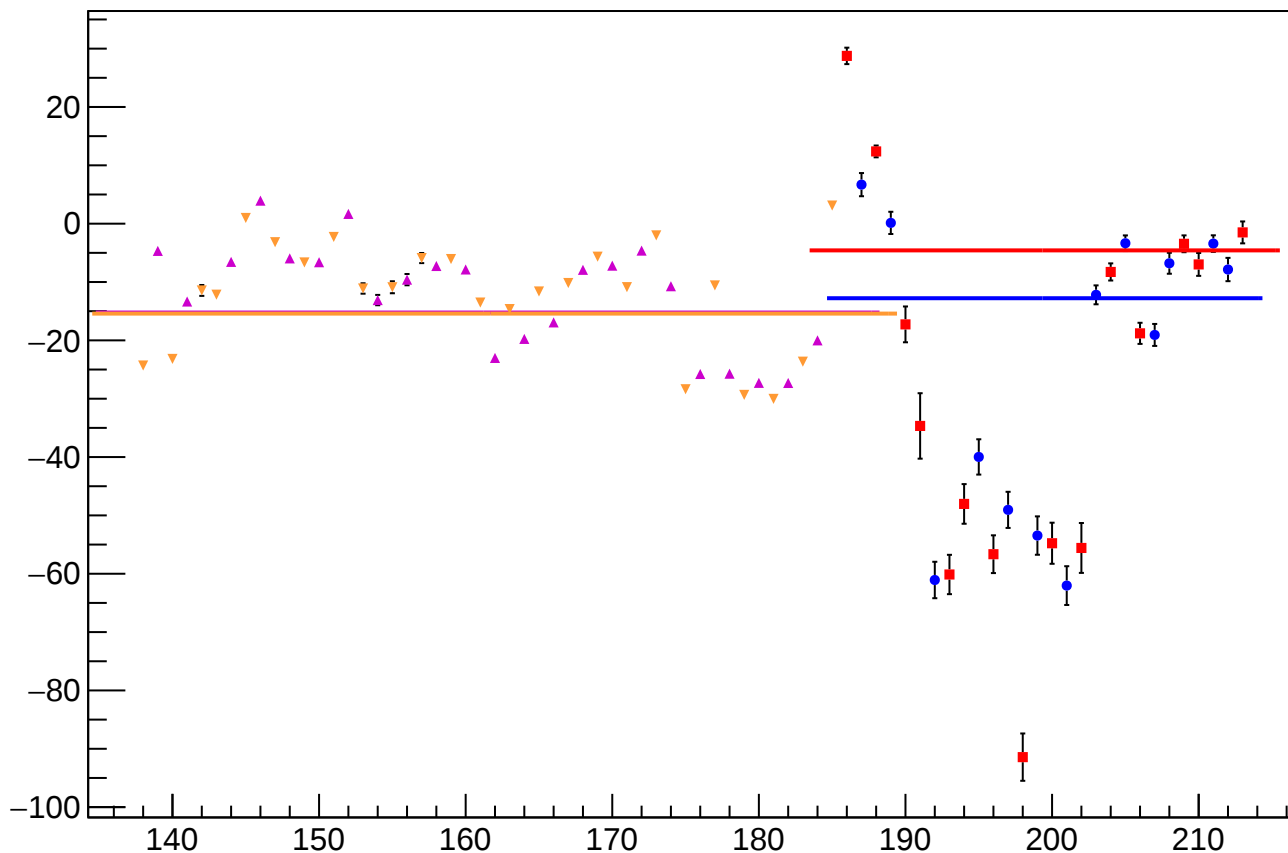
Right: 0.382 $\pm$ 0.006 χ^2 /NDF: 3062.0/63

In: 0.396 $\pm$ 0.005 χ^2 /NDF:3148.1/52

Out: 0.409 $\pm$ 0.005 χ^2 /NDF:3044.5/58

All: 0.402 $\pm$ 0.003 χ^2 /NDF: 6196.7/111

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.777 ± 0.550 $\chi^2/\text{NDF}: 1093.4/12$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: -4.578 ± 0.508 $\chi^2/\text{NDF}: 2456.7/14$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

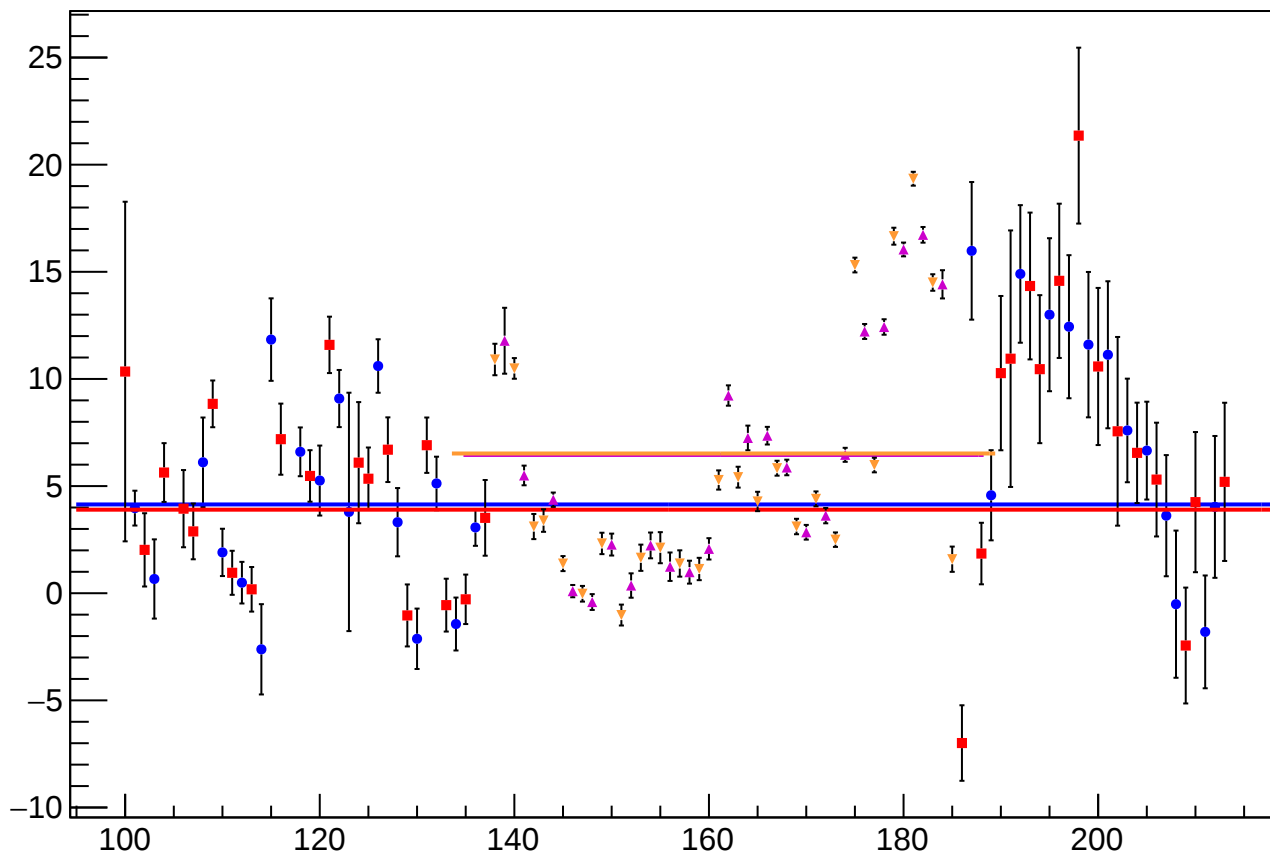
Right: -8.351 ± 0.373 $\chi^2/\text{NDF}: 3670.0/27$

In: -15.140 ± 0.105 $\chi^2/\text{NDF}: 9769.9/35$

Out: -14.967 ± 0.103 $\chi^2/\text{NDF}: 13402.1/39$

All: -15.052 ± 0.073 $\chi^2/\text{NDF}: 23173.4/75$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.143 $\pm$ 0.290 χ^2 /NDF: 193.7/29

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF:4985.2/24

Right Out: 3.899 $\pm$ 0.289 χ^2 /NDF: 229.4/33

Left In: 6.452 $\pm$ 0.086 χ^2 /NDF:3948.0/22

Left: 6.487 $\pm$ 0.061 χ^2 /NDF: 8933.5/47

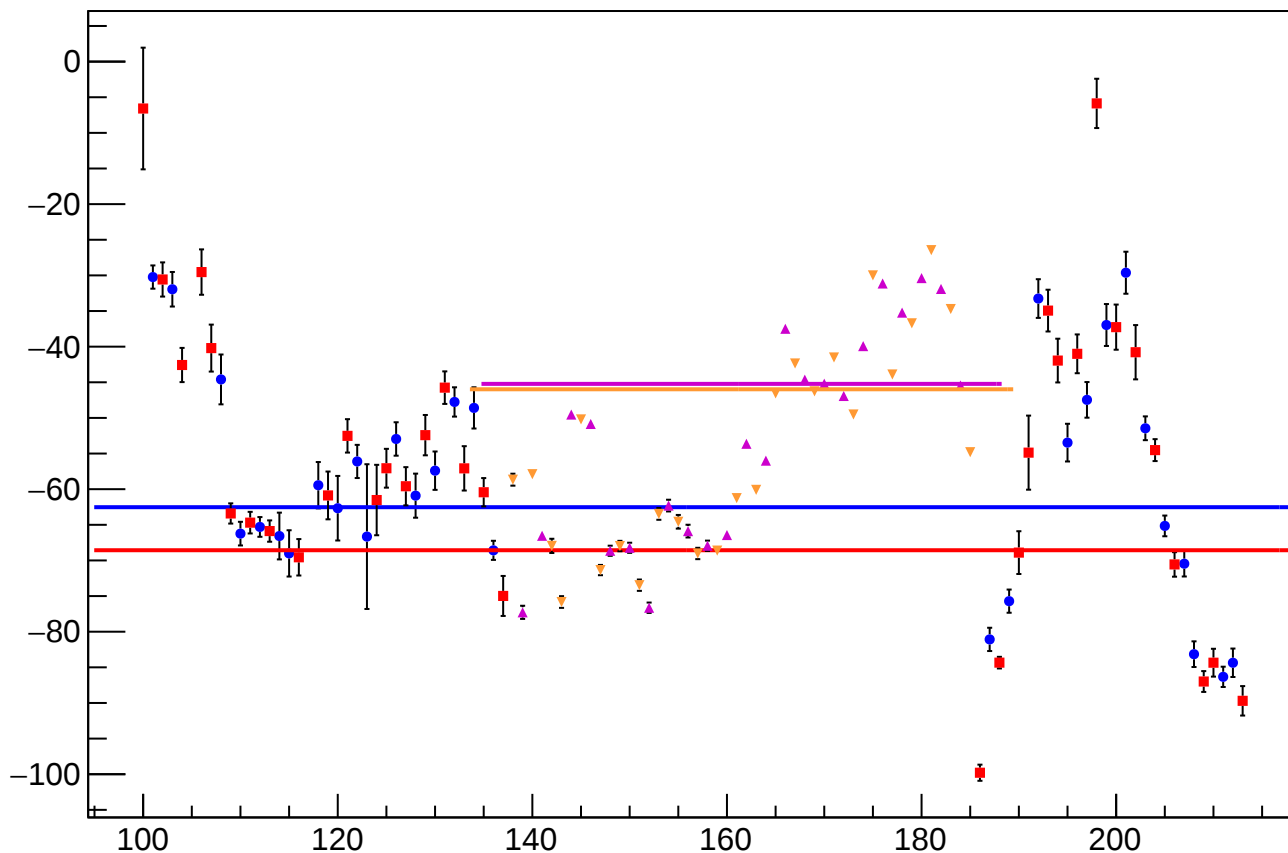
Right: 4.021 $\pm$ 0.205 χ^2 /NDF: 423.4/63

In: 6.265 $\pm$ 0.083 χ^2 /NDF:4200.1/52

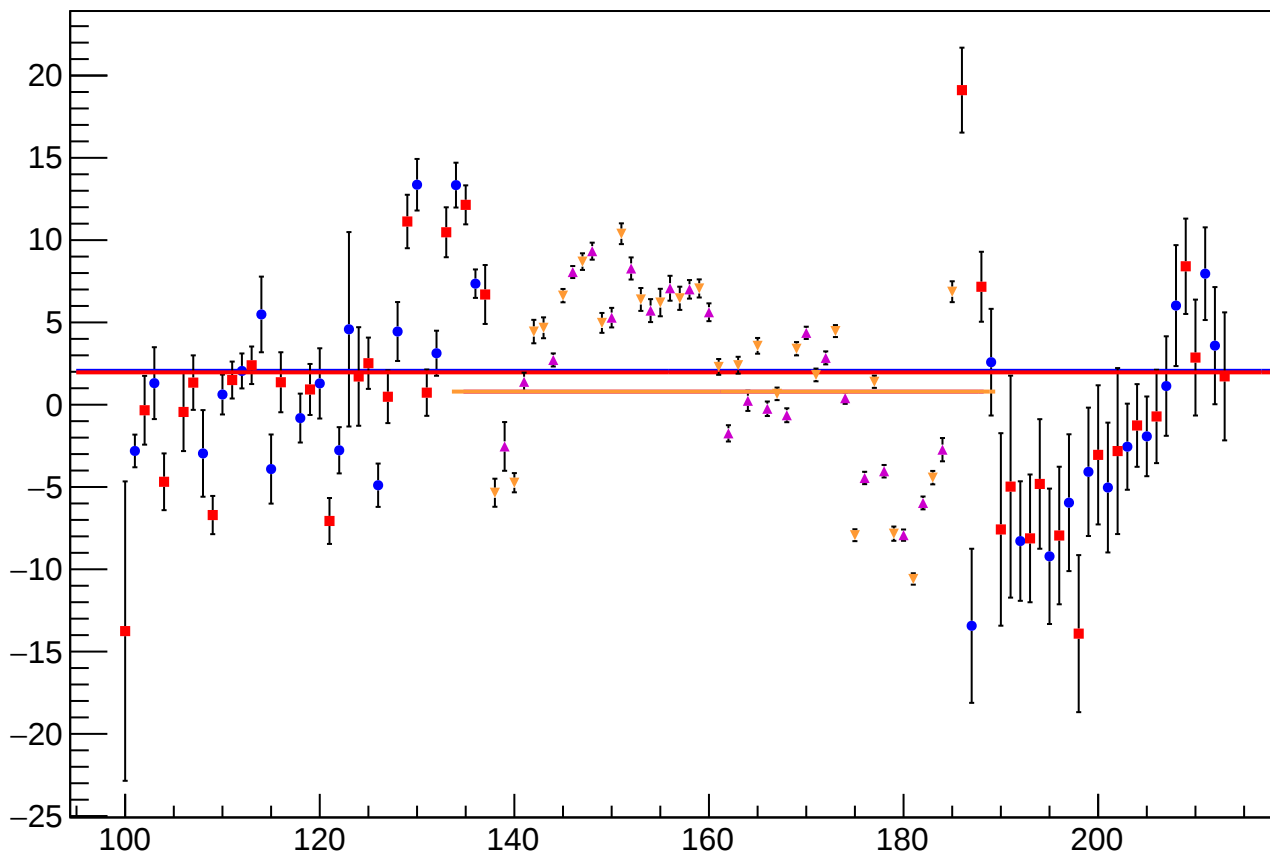
Out: 6.311 $\pm$ 0.082 χ^2 /NDF:5290.1/58

All: 6.288 $\pm$ 0.058 χ^2 /NDF: 9490.3/111

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.058 ± 0.326 χ^2/NDF : 291.6/29

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.966 ± 0.330 χ^2/NDF : 354.8/33

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

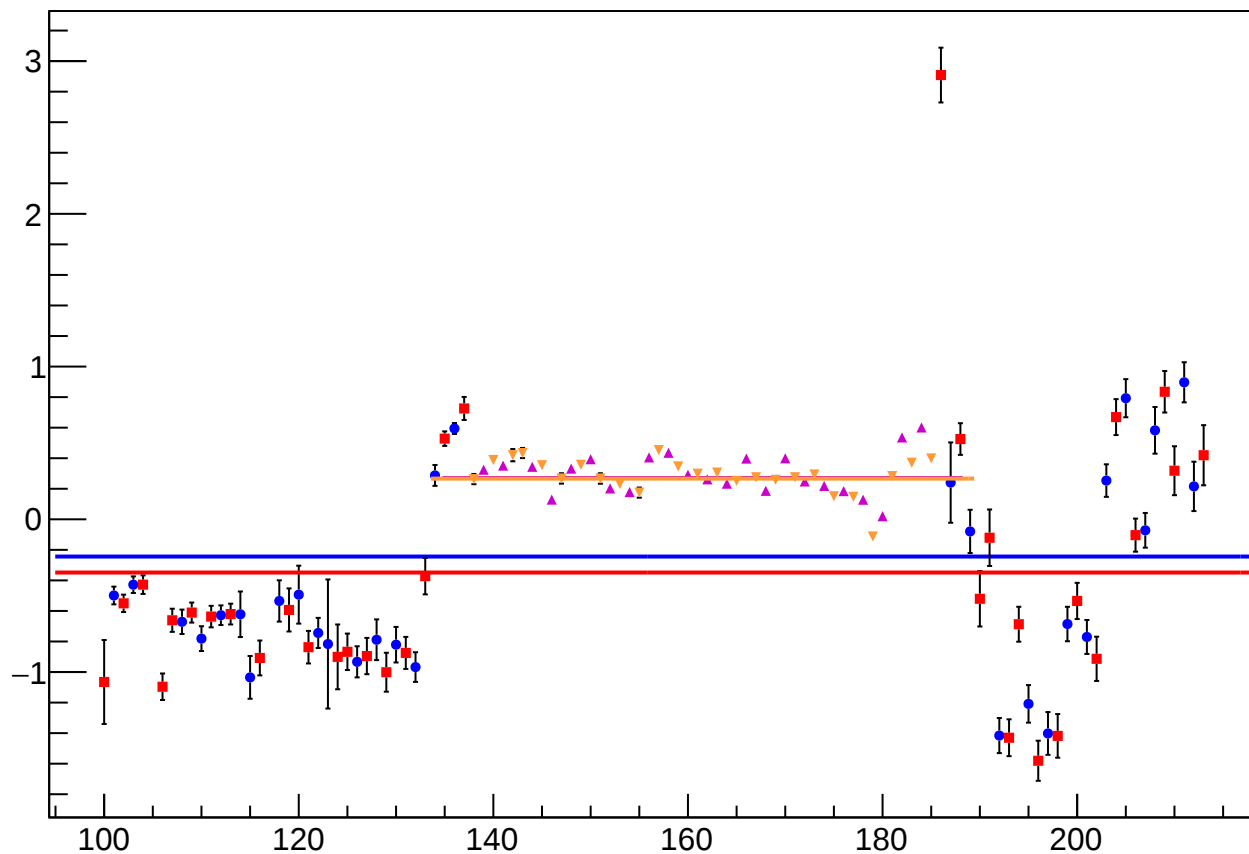
Right: 2.013 ± 0.232 χ^2/NDF : 646.4/63

In: 0.895 ± 0.093 χ^2/NDF : 2998.0/52

Out: 0.888 ± 0.092 χ^2/NDF : 4126.3/58

All: 0.891 ± 0.065 χ^2/NDF : 7124.3/111

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.244 ± 0.017 χ^2/NDF : 1439.9/29

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.348 ± 0.017 χ^2/NDF : 1692.9/33

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

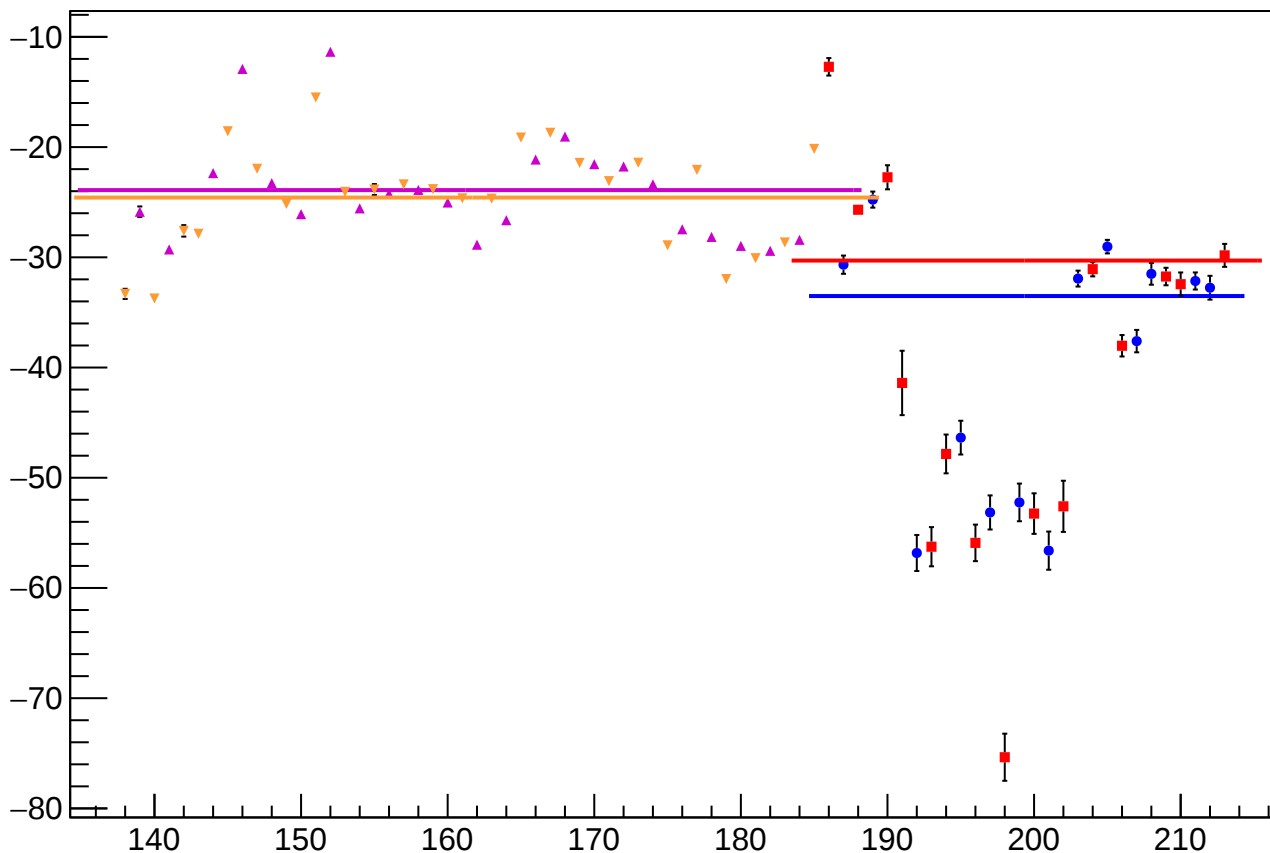
Right: -0.296 ± 0.012 χ^2/NDF : 3152.4/63

In: 0.237 ± 0.004 χ^2/NDF : 3293.6/52

Out: 0.227 ± 0.004 χ^2/NDF : 3667.3/58

All: 0.232 ± 0.003 χ^2/NDF : 6963.4/111

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.514 ± 0.264 χ^2/NDF : 970.4/12
 Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24
 Right Out: -30.294 ± 0.247 χ^2/NDF : 1983.2/14
 Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

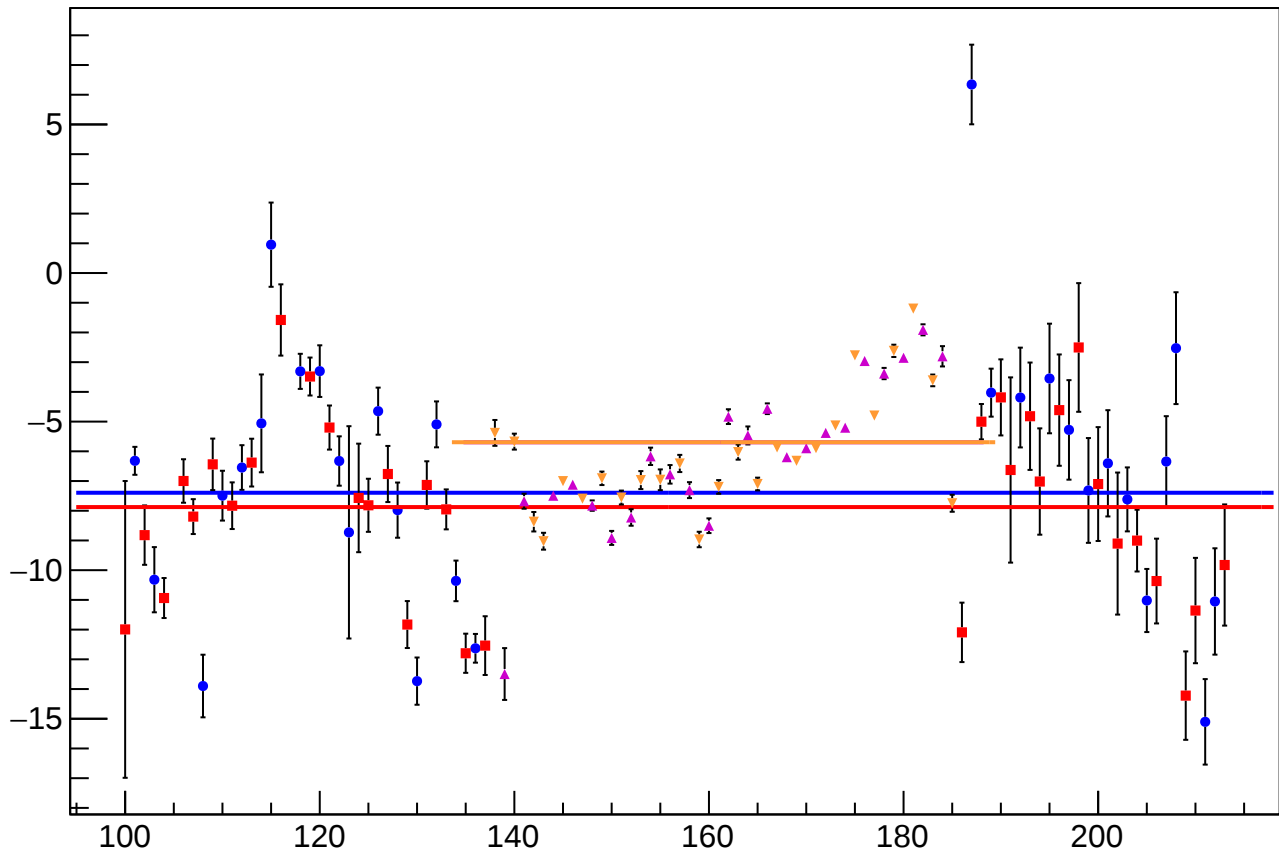
Right: -31.794 ± 0.180 χ^2/NDF : 3032.9/27

In: -24.247 ± 0.050 χ^2/NDF : 11400.8/35

Out: -24.811 ± 0.050 χ^2/NDF : 11088.3/39

All: -24.531 ± 0.035 χ^2/NDF : 22552.6/75

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.394 ± 0.168 χ^2/NDF : 565.6/29

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.876 ± 0.164 χ^2/NDF : 312.9/33

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

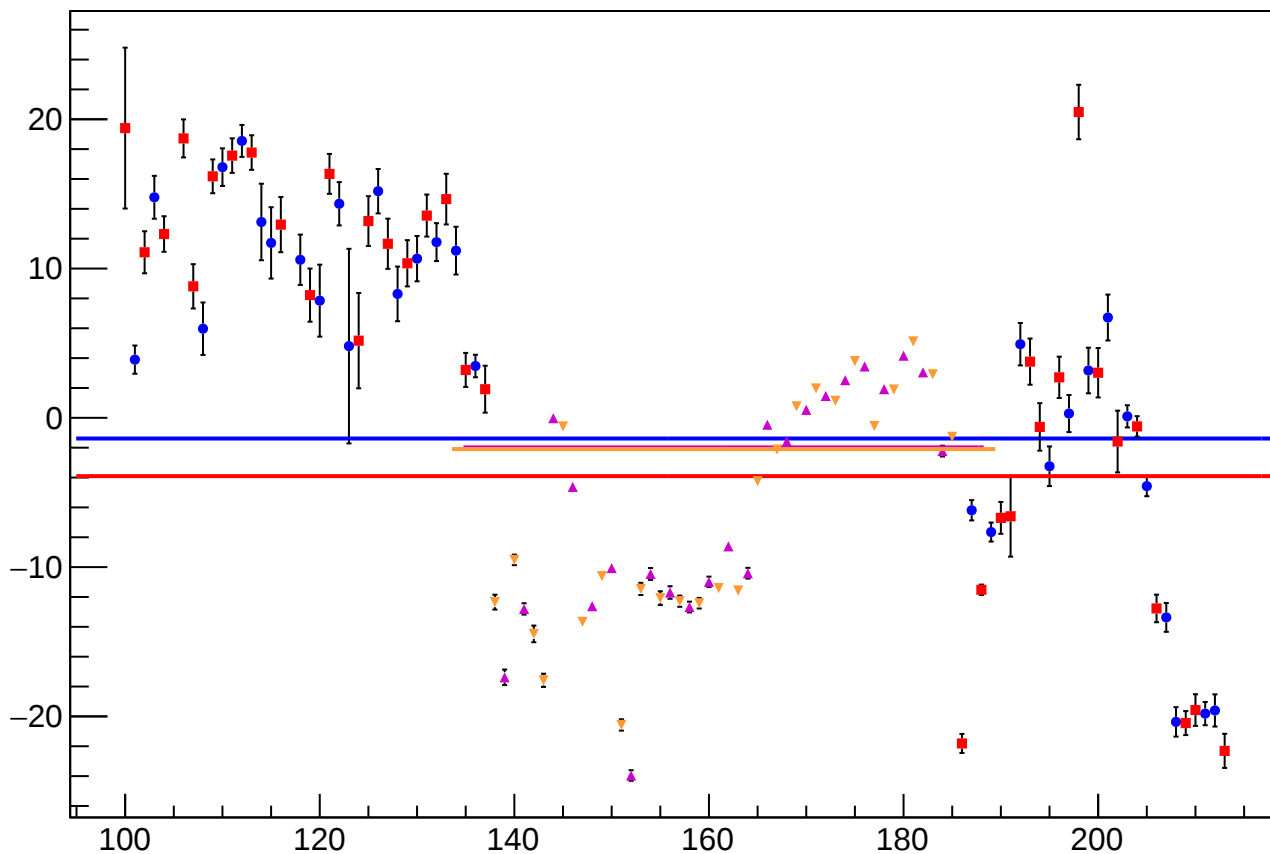
Right: -7.642 ± 0.117 χ^2/NDF : 882.7/63

In: -5.791 ± 0.040 χ^2/NDF : 2971.9/52

Out: -5.824 ± 0.040 χ^2/NDF : 2738.7/58

All: -5.807 ± 0.028 χ^2/NDF : 5711.0/111

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -1.386 ± 0.202 χ^2/NDF : 3003.6/29

Left Out: -2.092 ± 0.051 χ^2/NDF : 16305.3/24

Right Out: -3.906 ± 0.184 χ^2/NDF : 5229.9/33

Left In: -1.980 ± 0.051 χ^2/NDF : 15382.3/22

Left: -2.036 ± 0.036 χ^2/NDF : 31690.0/47

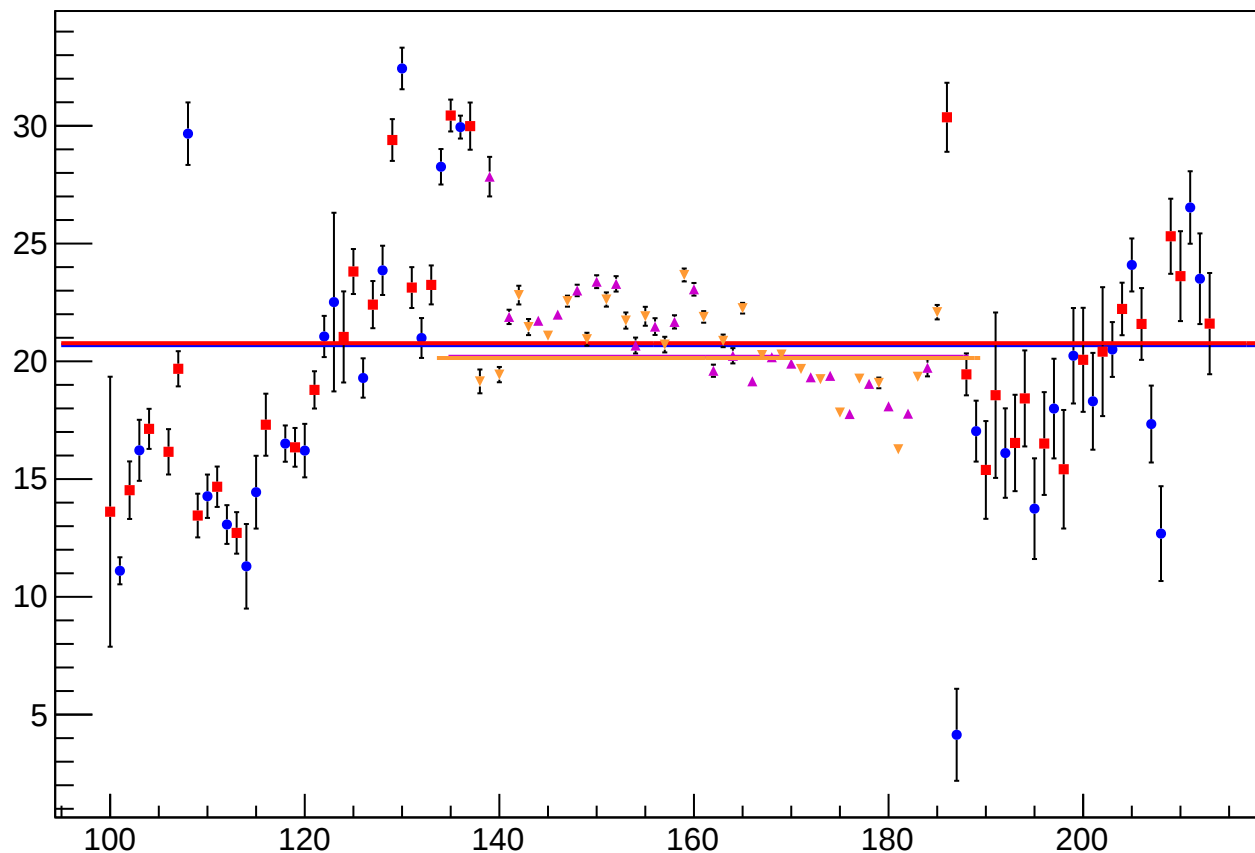
Right: -2.763 ± 0.136 χ^2/NDF : 8318.6/63

In: -1.944 ± 0.050 χ^2/NDF : 18394.0/52

Out: -2.223 ± 0.050 χ^2/NDF : 21625.4/58

All: -2.084 ± 0.035 χ^2/NDF : 40035.3/111

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.686 $\pm$ 0.191 χ^2 /NDF: 1357.1/29

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.770 $\pm$ 0.191 χ^2 /NDF: 800.6/33

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

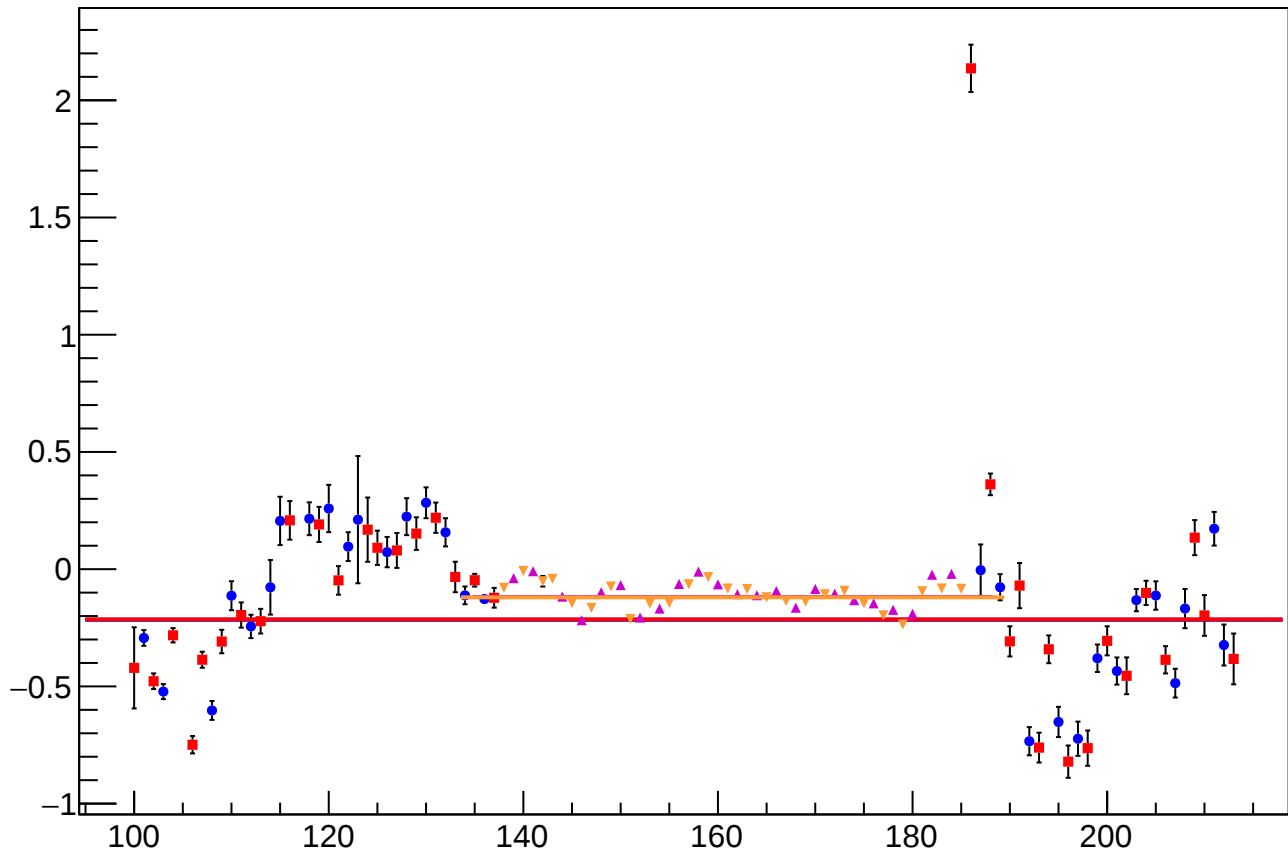
Right: 20.728 $\pm$ 0.135 χ^2 /NDF: 2157.7/63

In: 20.221 $\pm$ 0.045 χ^2 /NDF:2810.7/52

Out: 20.175 $\pm$ 0.045 χ^2 /NDF:2229.9/58

All: 20.198 $\pm$ 0.032 χ^2 /NDF: 5041.2/111

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.216 ± 0.009 $\chi^2/\text{NDF}: 729.0/29$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.214 ± 0.009 $\chi^2/\text{NDF}: 1494.7/33$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

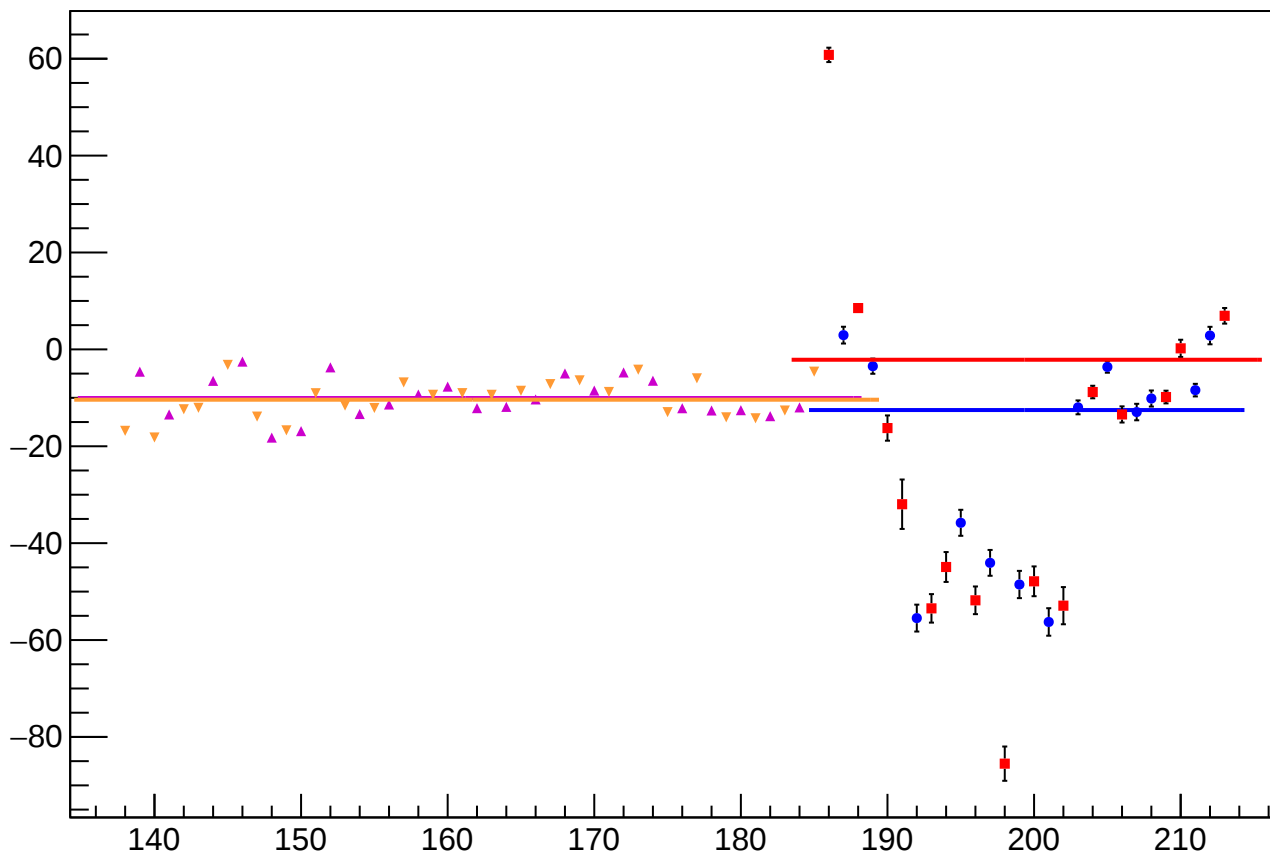
Right: -0.215 ± 0.007 $\chi^2/\text{NDF}: 2223.7/63$

In: -0.123 ± 0.002 $\chi^2/\text{NDF}: 1550.4/52$

Out: -0.125 ± 0.002 $\chi^2/\text{NDF}: 2123.3/58$

All: -0.124 ± 0.001 $\chi^2/\text{NDF}: 3674.0/111$

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.522 ± 0.488 $\chi^2/\text{NDF}: 1109.2/12$

Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$

Right Out: -2.140 ± 0.455 $\chi^2/\text{NDF}: 3900.2/14$

Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$

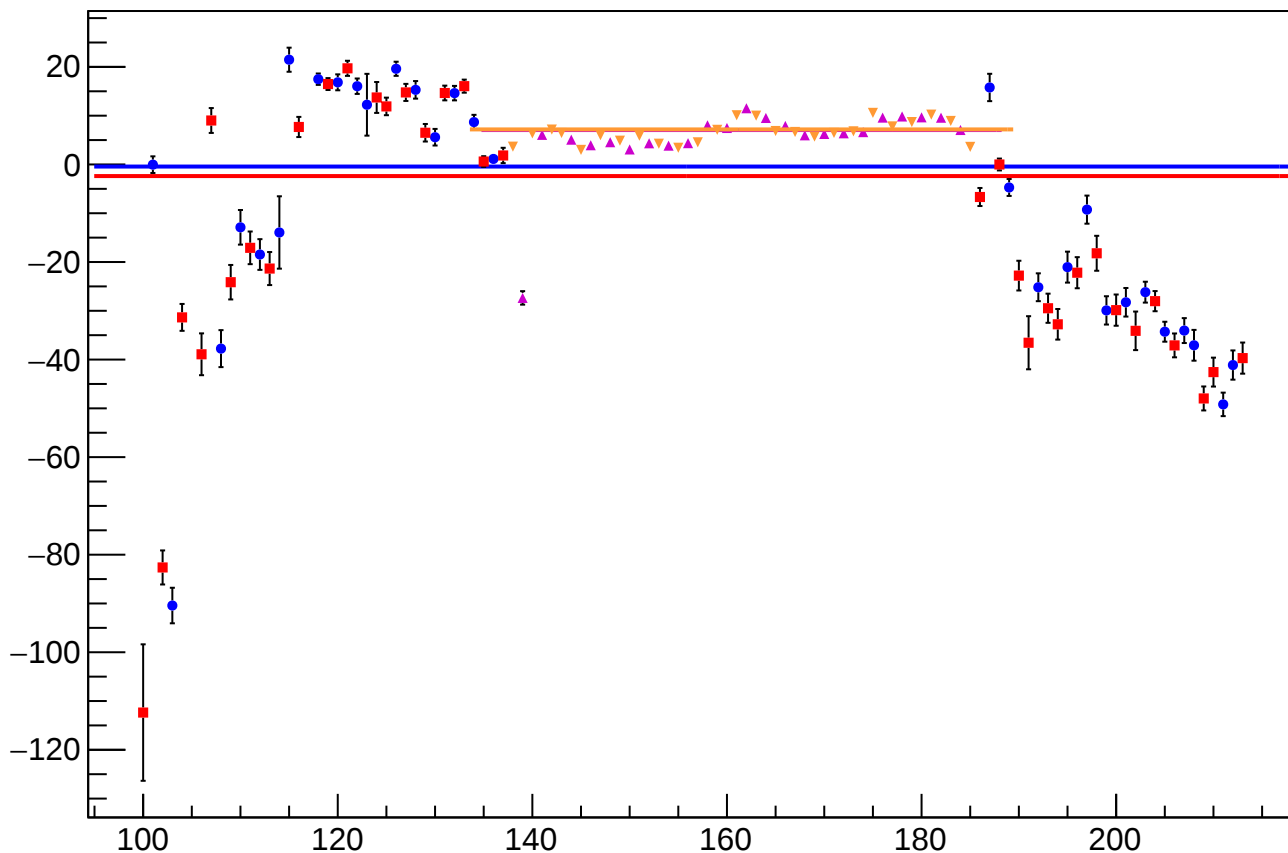
Right: -6.966 ± 0.333 $\chi^2/\text{NDF}: 5251.3/27$

In: -10.117 ± 0.088 $\chi^2/\text{NDF}: 2892.9/35$

Out: -10.094 ± 0.086 $\chi^2/\text{NDF}: 6328.6/39$

All: -10.105 ± 0.062 $\chi^2/\text{NDF}: 9221.6/75$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.429 ± 0.352 χ^2/NDF : 3400.9/29

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -2.381 ± 0.360 χ^2/NDF : 3375.0/33

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

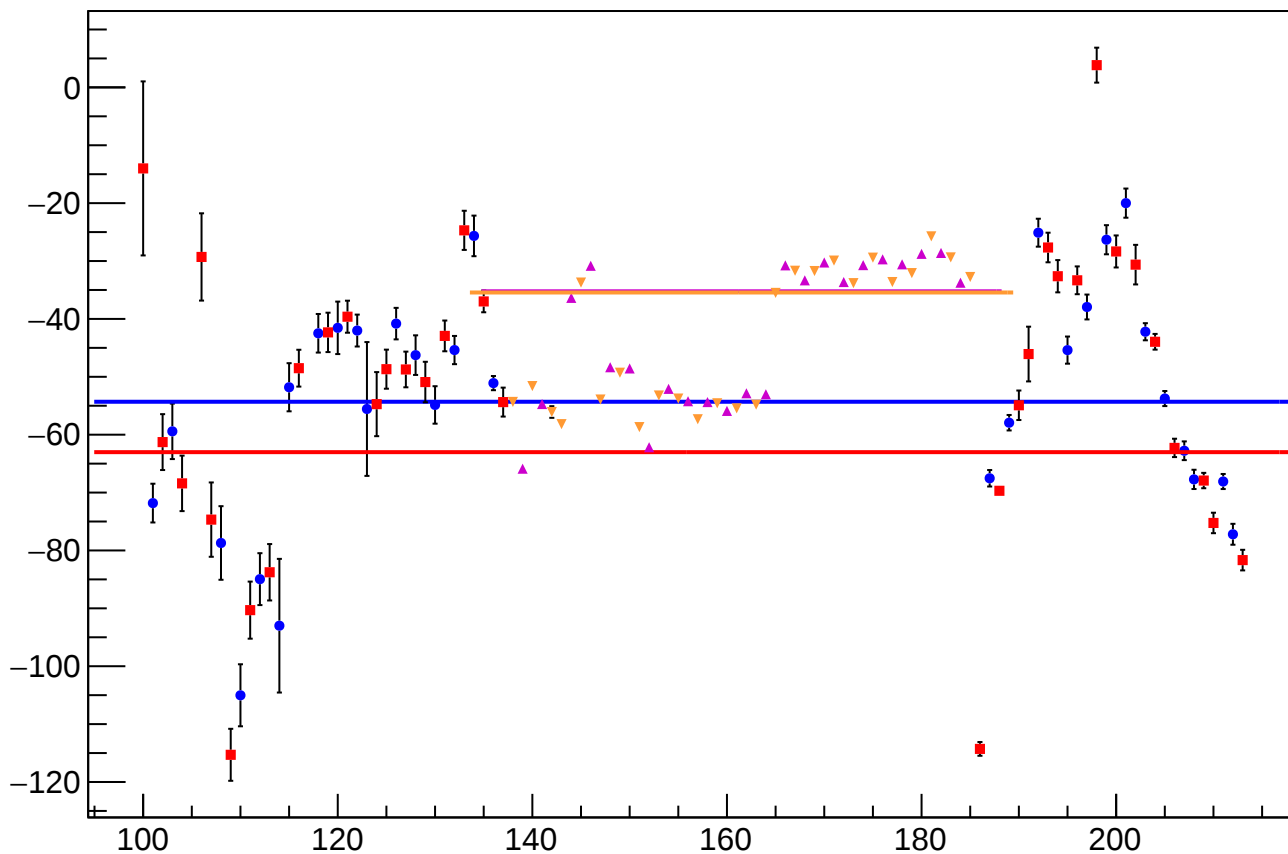
Right: -1.384 ± 0.252 χ^2/NDF : 6791.0/63

In: 6.735 ± 0.073 χ^2/NDF : 5369.0/52

Out: 6.801 ± 0.072 χ^2/NDF : 4971.0/58

All: 6.768 ± 0.051 χ^2/NDF : 10340.4/111

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -54.310 ± 0.394 χ^2/NDF : 1403.1/29

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -63.018 ± 0.366 χ^2/NDF : 4340.0/33

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

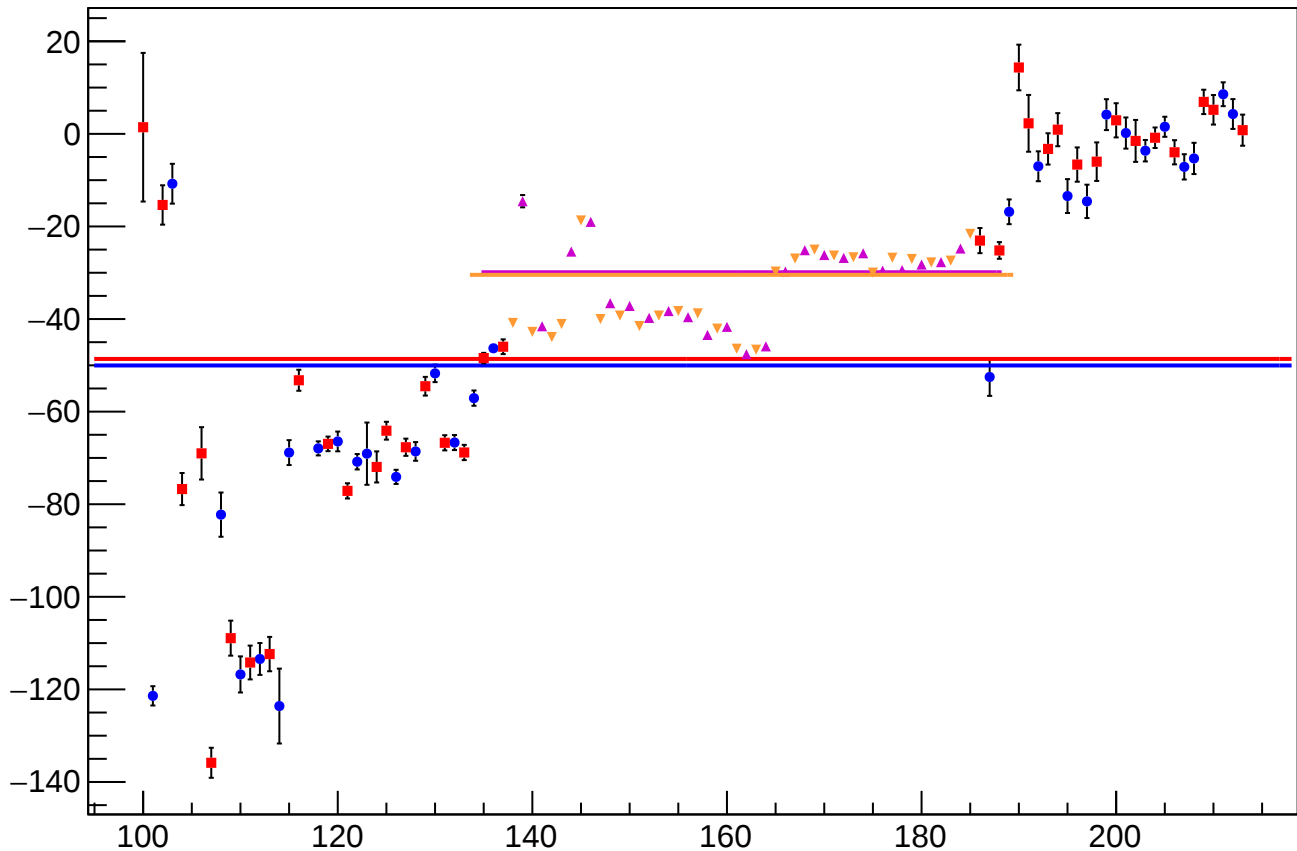
Right: -58.987 ± 0.268 χ^2/NDF : 6005.5/63

In: -36.178 ± 0.088 χ^2/NDF : 15236.1/52

Out: -36.977 ± 0.086 χ^2/NDF : 22494.7/58

All: -36.584 ± 0.062 χ^2/NDF : 37772.9/111

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -50.029 ± 0.394 $\chi^2/\text{NDF}: 6112.5/29$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -48.612 ± 0.412 $\chi^2/\text{NDF}: 5787.1/33$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

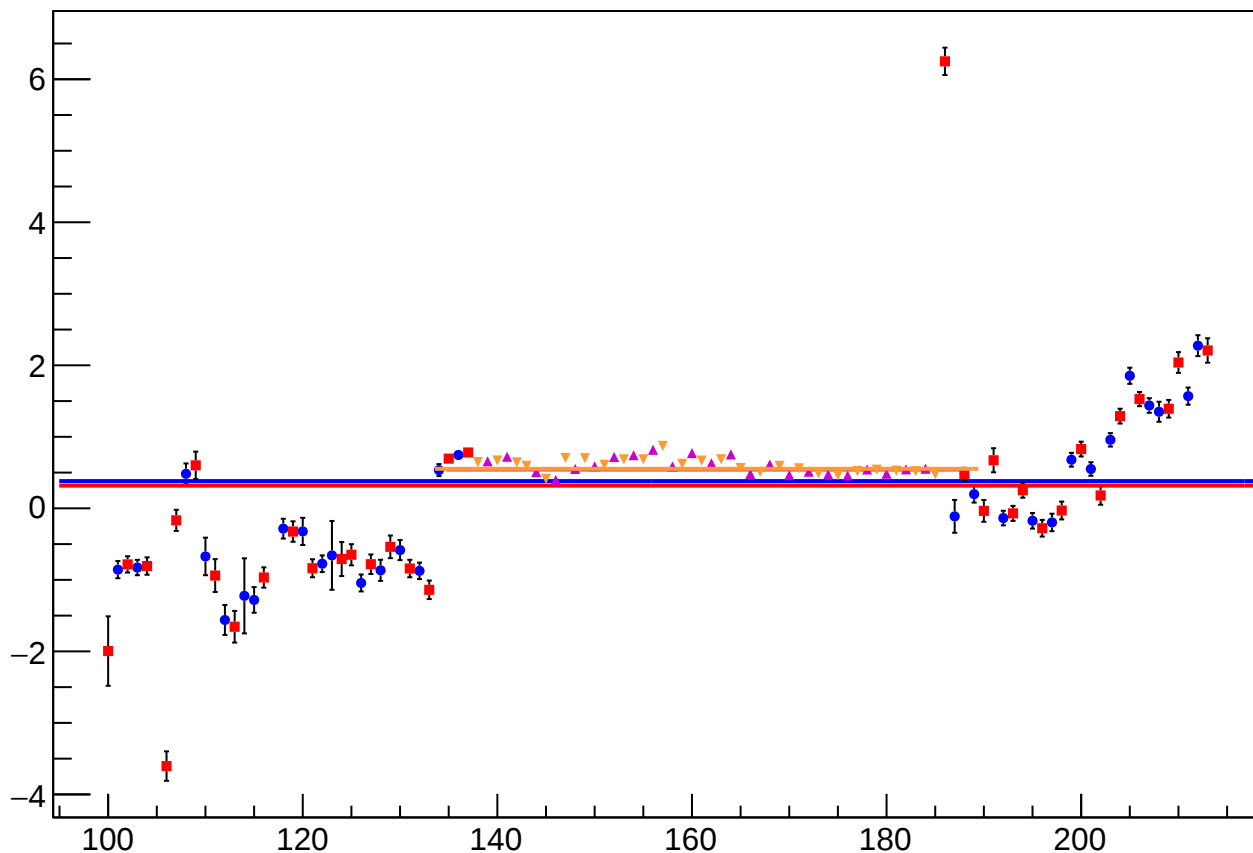
Right: -49.353 ± 0.285 $\chi^2/\text{NDF}: 11905.8/63$

In: -30.740 ± 0.081 $\chi^2/\text{NDF}: 15732.5/52$

Out: -31.131 ± 0.080 $\chi^2/\text{NDF}: 15822.8/58$

All: -30.938 ± 0.057 $\chi^2/\text{NDF}: 31567.1/111$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.381 $\pm$ 0.019 χ^2 /NDF: 1798.8/29

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.318 $\pm$ 0.020 χ^2 /NDF: 2987.9/33

Left In: 0.544 $\pm$ 0.004 χ^2 /NDF:655.9/22

Left: 0.548 $\pm$ 0.003 χ^2 /NDF: 1200.9/47

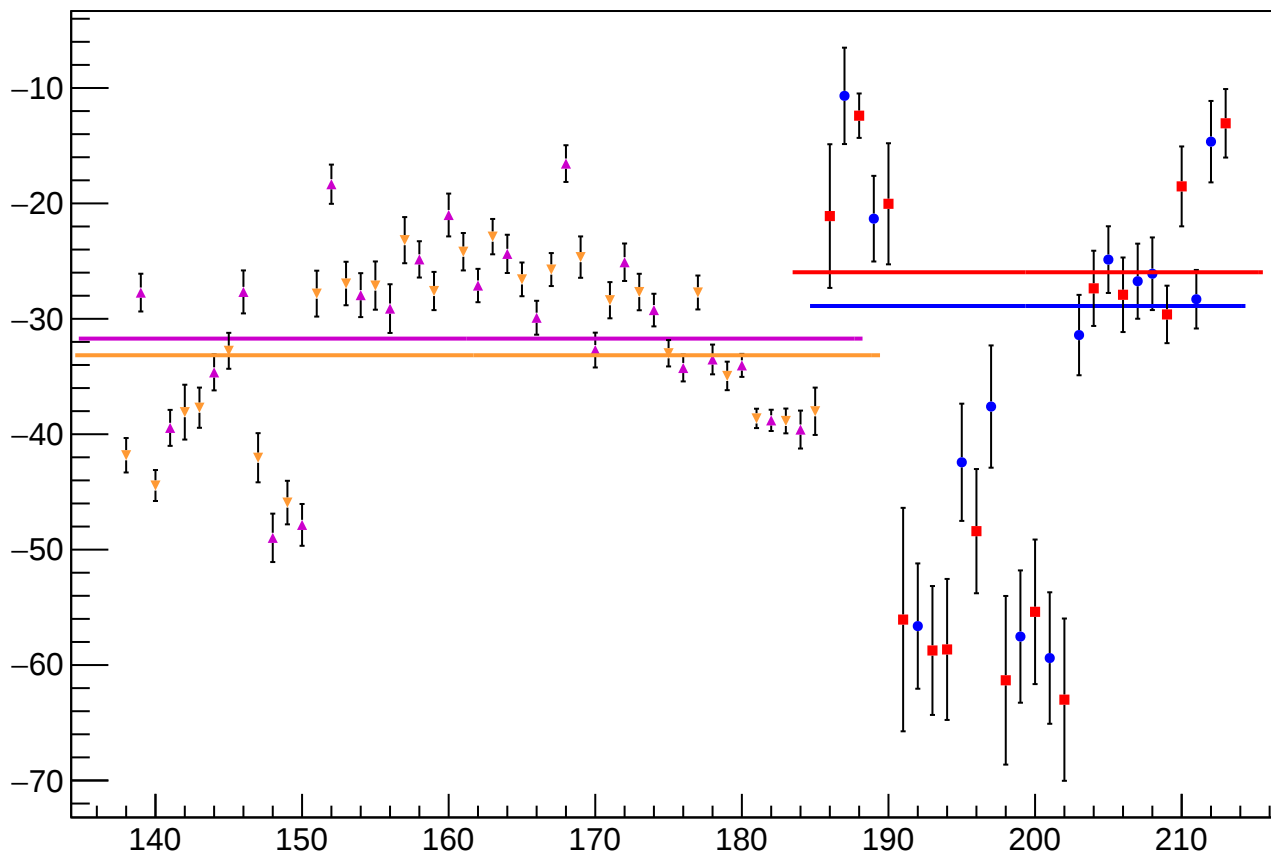
Right: 0.351 $\pm$ 0.014 χ^2 /NDF: 4791.9/63

In: 0.538 $\pm$ 0.004 χ^2 /NDF:2524.3/52

Out: 0.545 $\pm$ 0.004 χ^2 /NDF:3663.2/58

All: 0.541 $\pm$ 0.003 χ^2 /NDF: 6189.6/111

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

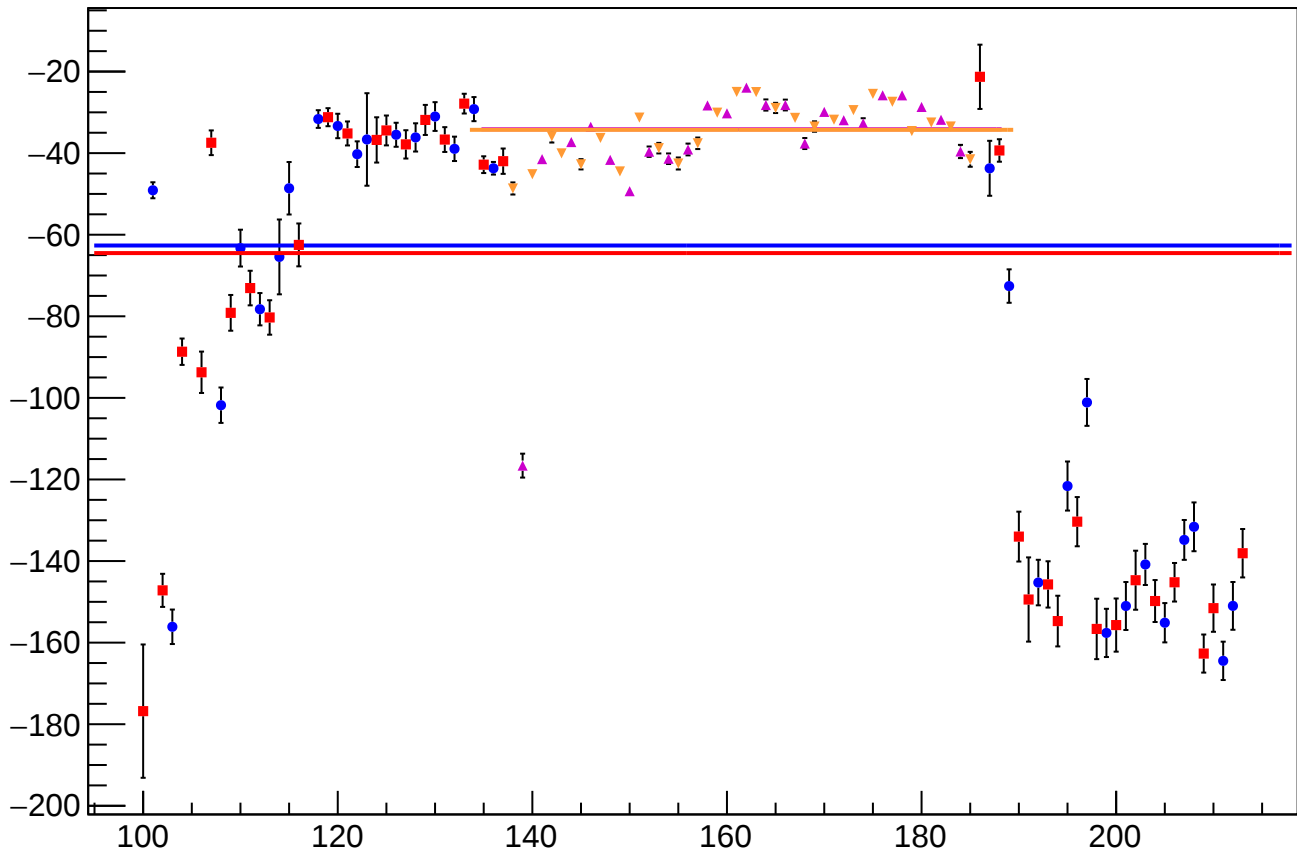


Right In: -28.889 ± 1.035 $\chi^2/\text{NDF}: 132.8/12$
 Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$
 Right Out: -25.965 ± 0.976 $\chi^2/\text{NDF}: 241.2/14$
 Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$
 Right: -27.342 ± 0.710 $\chi^2/\text{NDF}: 378.1/27$
 In: -31.483 ± 0.296 $\chi^2/\text{NDF}: 681.9/35$
 Out: -32.536 ± 0.287 $\chi^2/\text{NDF}: 790.8/39$

All: -32.026 ± 0.206 $\chi^2/\text{NDF}: 1479.2/75$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -62.647 ± 0.655 $\chi^2/\text{NDF}: 4074.6/29$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -64.503 ± 0.670 $\chi^2/\text{NDF}: 4400.5/33$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

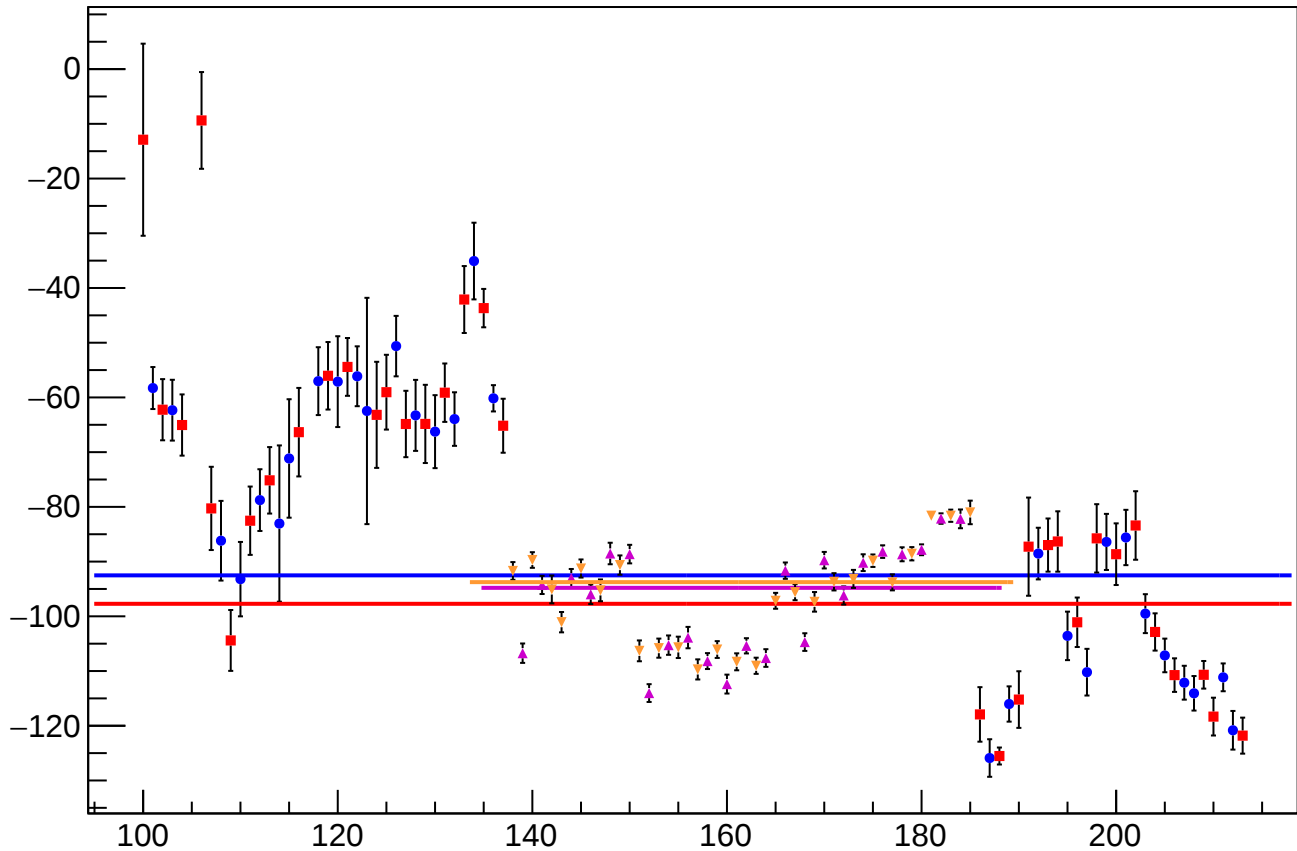
Right: -63.554 ± 0.468 $\chi^2/\text{NDF}: 8479.0/63$

In: -37.788 ± 0.234 $\chi^2/\text{NDF}: 7178.0/52$

Out: -37.760 ± 0.227 $\chi^2/\text{NDF}: 6895.5/58$

All: -37.774 ± 0.163 $\chi^2/\text{NDF}: 14073.5/111$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -92.517 ± 0.788 $\chi^2/\text{NDF}: 1000.2/29$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -97.713 ± 0.754 $\chi^2/\text{NDF}: 1370.9/33$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

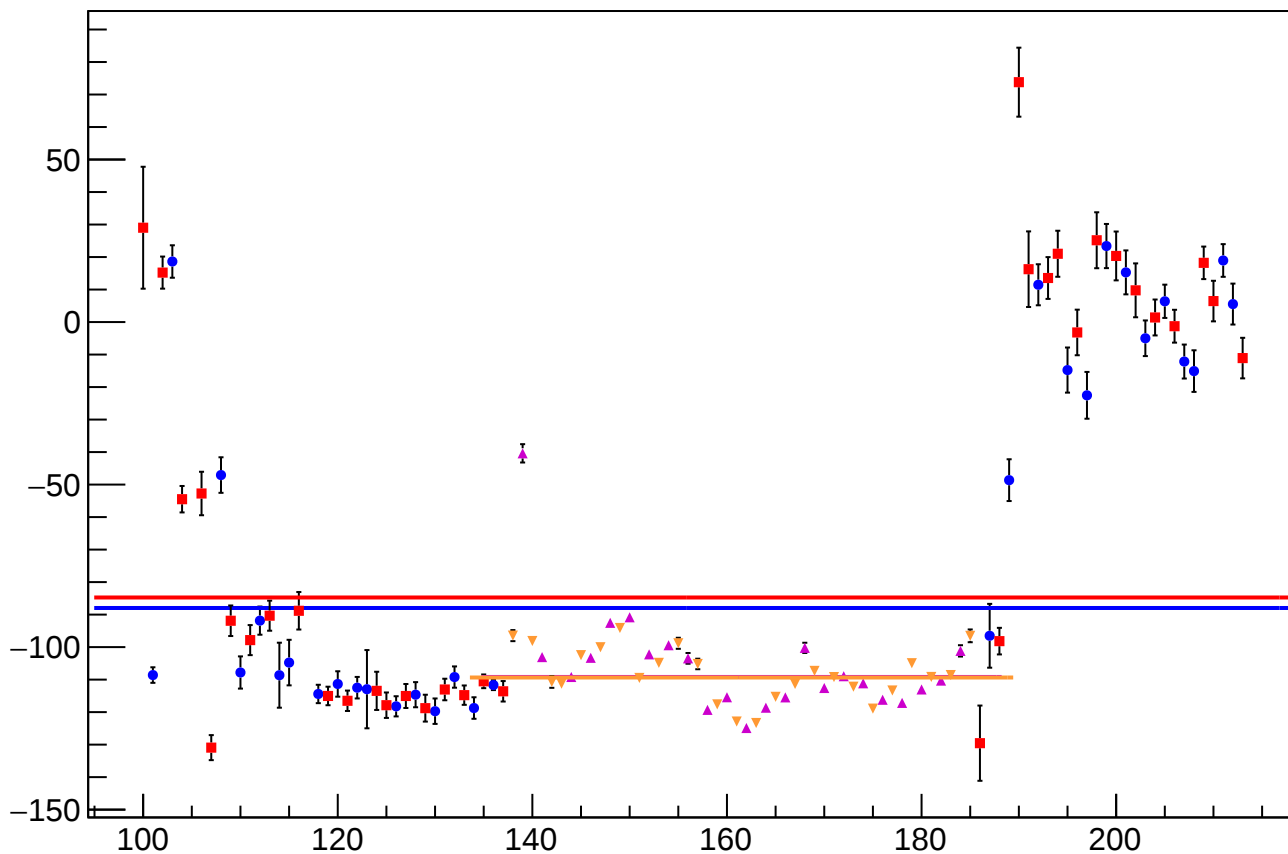
Right: -95.231 ± 0.545 $\chi^2/\text{NDF}: 2393.8/63$

In: -94.493 ± 0.287 $\chi^2/\text{NDF}: 1982.1/52$

Out: -94.301 ± 0.280 $\chi^2/\text{NDF}: 2277.7/58$

All: -94.395 ± 0.201 $\chi^2/\text{NDF}: 4260.1/111$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -87.964 ± 0.738 χ^2/NDF : 3927.8/29

Left Out: -109.351 ± 0.271 χ^2/NDF : 826.8/24

Right Out: -84.735 ± 0.767 χ^2/NDF : 4233.7/33

Left In: -109.184 ± 0.280 χ^2/NDF : 1501.1/22

Left: -109.270 ± 0.195 χ^2/NDF : 2328.1/47

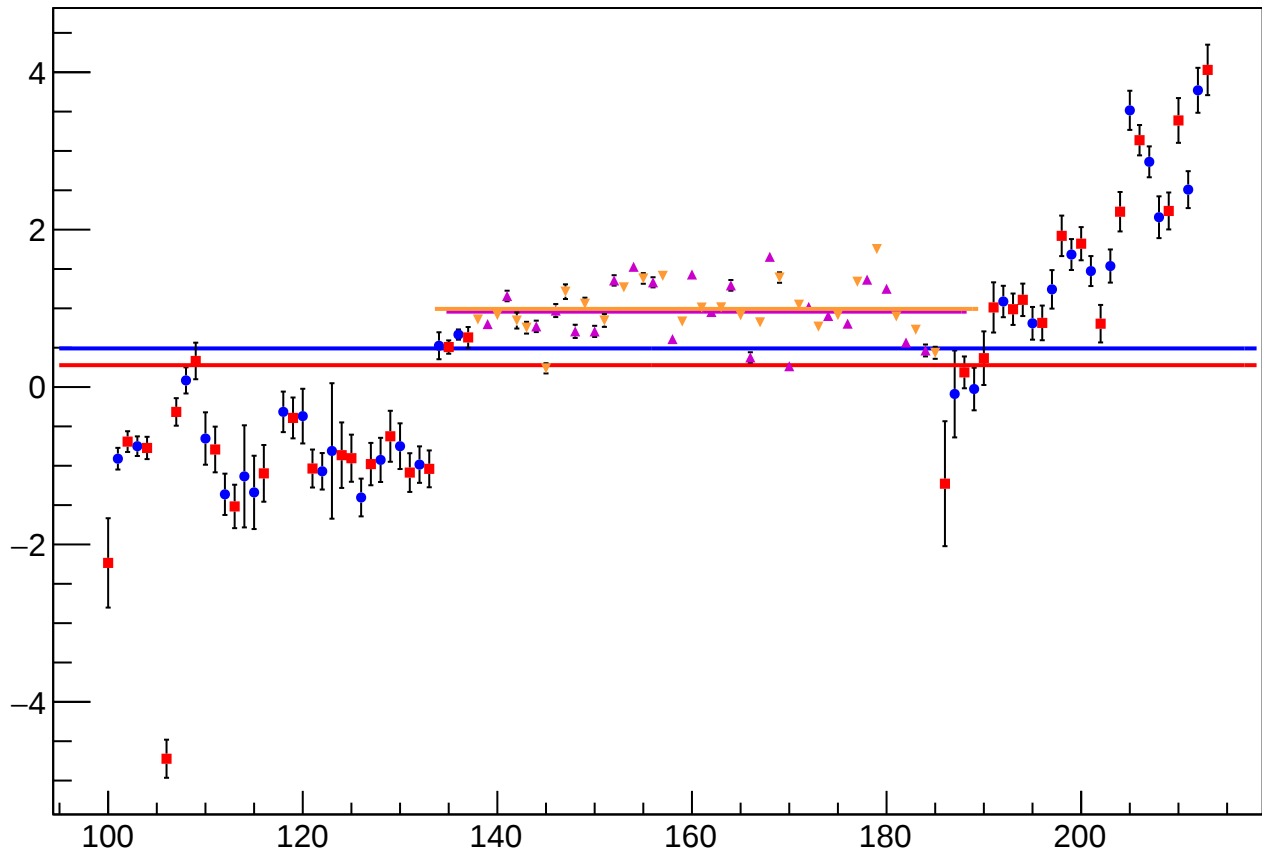
Right: -86.410 ± 0.532 χ^2/NDF : 8170.7/63

In: -106.518 ± 0.262 χ^2/NDF : 6151.1/52

Out: -106.613 ± 0.256 χ^2/NDF : 5976.6/58

All: -106.567 ± 0.183 χ^2/NDF : 12127.8/111

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.491 ± 0.035 χ^2/NDF : 1162.6/29

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: 0.278 ± 0.036 χ^2/NDF : 1553.4/33

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

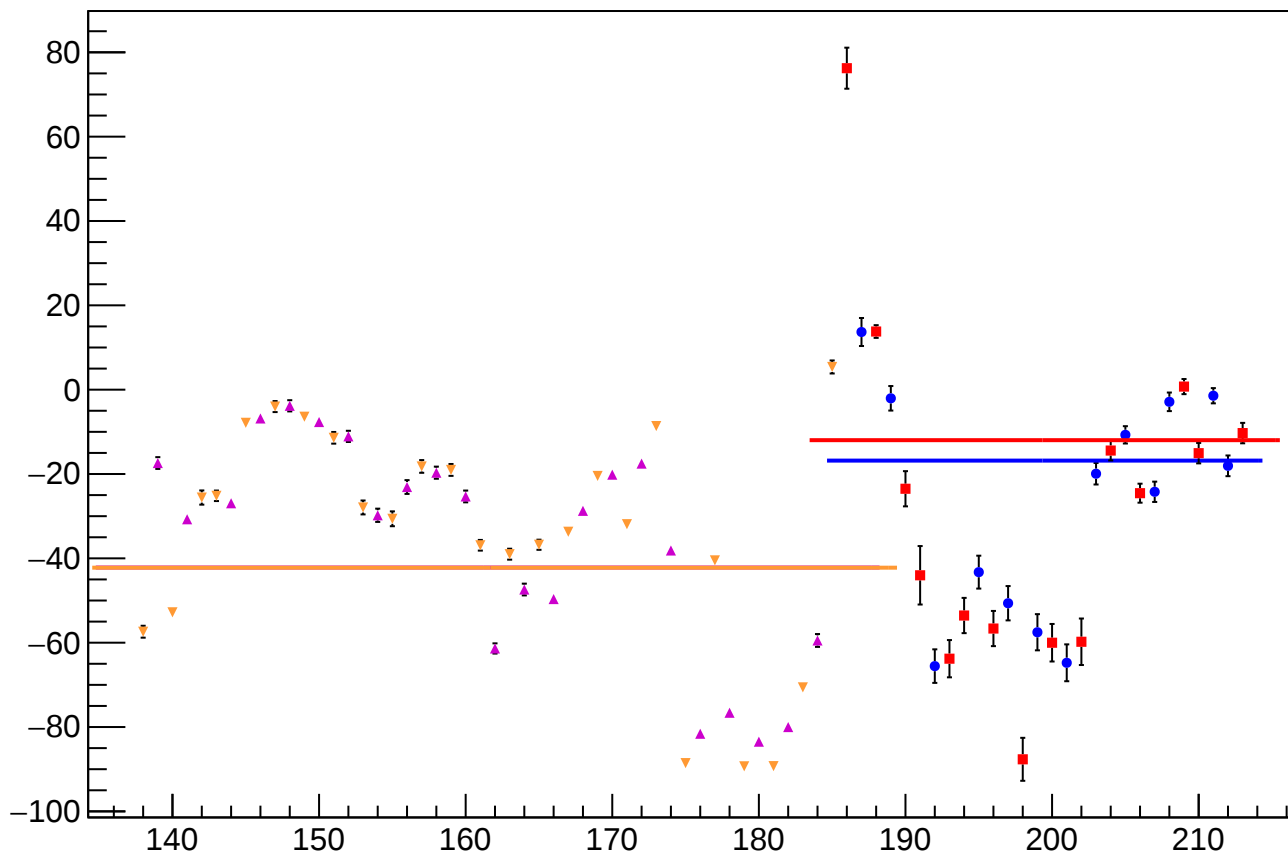
Right: 0.387 ± 0.025 χ^2/NDF : 2733.8/63

In: 0.905 ± 0.012 χ^2/NDF : 2212.4/52

Out: 0.917 ± 0.012 χ^2/NDF : 2543.0/58

All: 0.911 ± 0.008 χ^2/NDF : 4756.0/111

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected

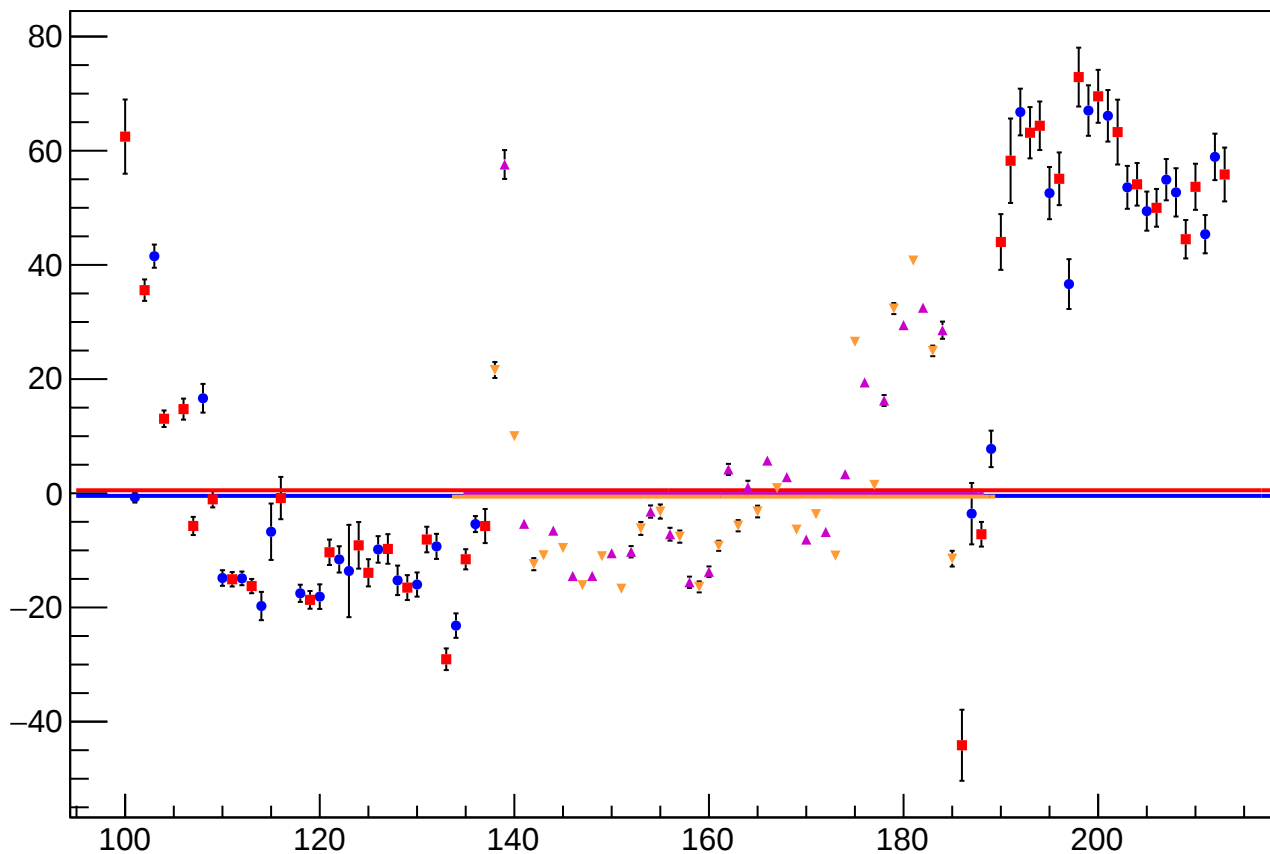


Right In: -16.820 ± 0.757 $\chi^2/\text{NDF}: 718.1/12$
 Left Out: -42.213 ± 0.222 $\chi^2/\text{NDF}: 18309.1/24$
 Right Out: -11.975 ± 0.730 $\chi^2/\text{NDF}: 1497.2/14$
 Left In: -42.176 ± 0.227 $\chi^2/\text{NDF}: 14575.9/22$

Left: -42.195 ± 0.159 $\chi^2/\text{NDF}: 32885.0/47$
 Right: -14.309 ± 0.525 $\chi^2/\text{NDF}: 2236.5/27$
 In: -40.082 ± 0.217 $\chi^2/\text{NDF}: 16323.8/35$
 Out: -39.651 ± 0.212 $\chi^2/\text{NDF}: 21377.9/39$

All: -39.861 ± 0.152 $\chi^2/\text{NDF}: 37703.7/75$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.455 ± 0.401 χ^2/NDF : 3402.6/29

Left Out: -0.590 ± 0.174 χ^2/NDF : 8750.9/24

Right Out: 0.527 ± 0.397 χ^2/NDF : 3743.4/33

Left In: -0.142 ± 0.179 χ^2/NDF : 6862.5/22

Left: -0.372 ± 0.125 χ^2/NDF : 15616.6/47

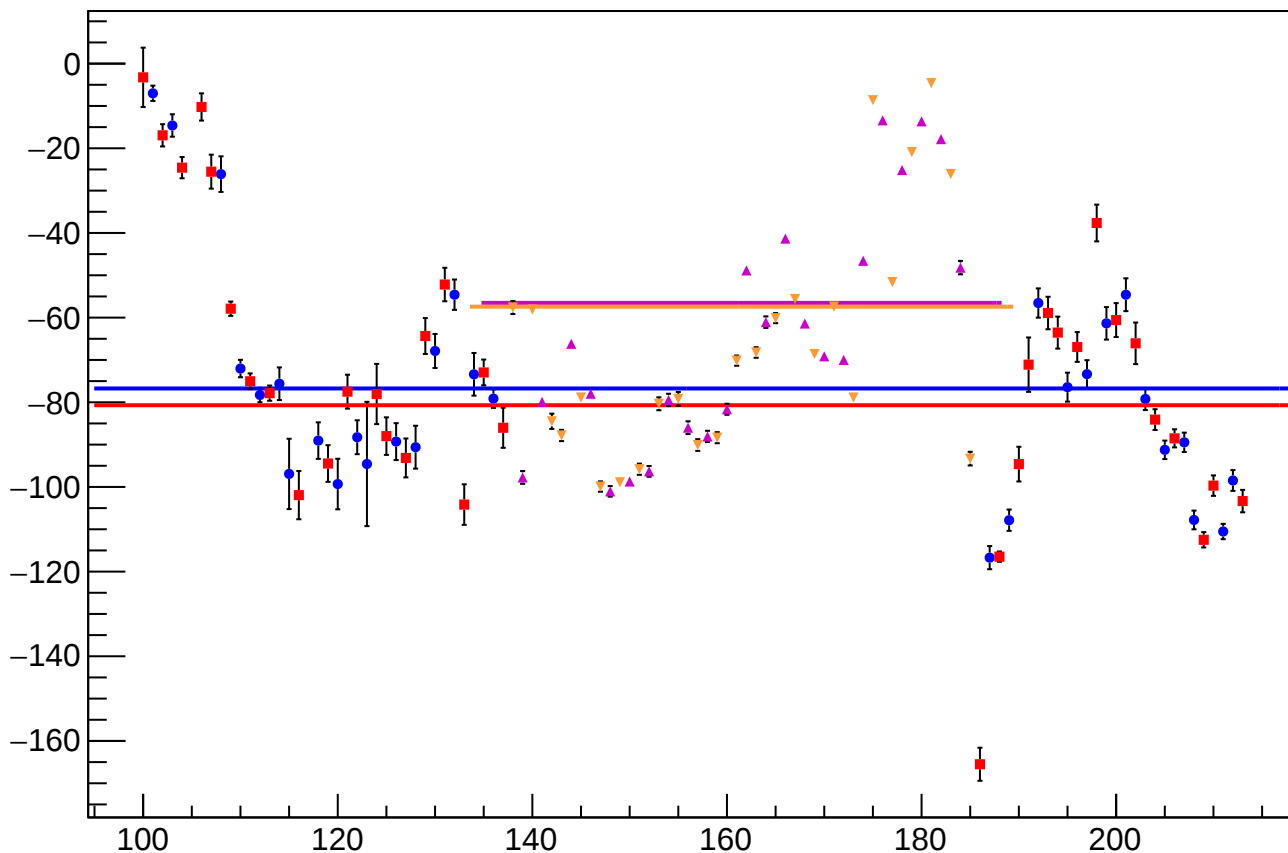
Right: 0.041 ± 0.282 χ^2/NDF : 7149.0/63

In: -0.194 ± 0.164 χ^2/NDF : 10265.6/52

Out: -0.409 ± 0.160 χ^2/NDF : 12501.0/58

All: -0.304 ± 0.114 χ^2/NDF : 22767.4/111

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.737 ± 0.520 χ^2/NDF : 3423.2/29

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -80.697 ± 0.487 χ^2/NDF : 4209.1/33

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

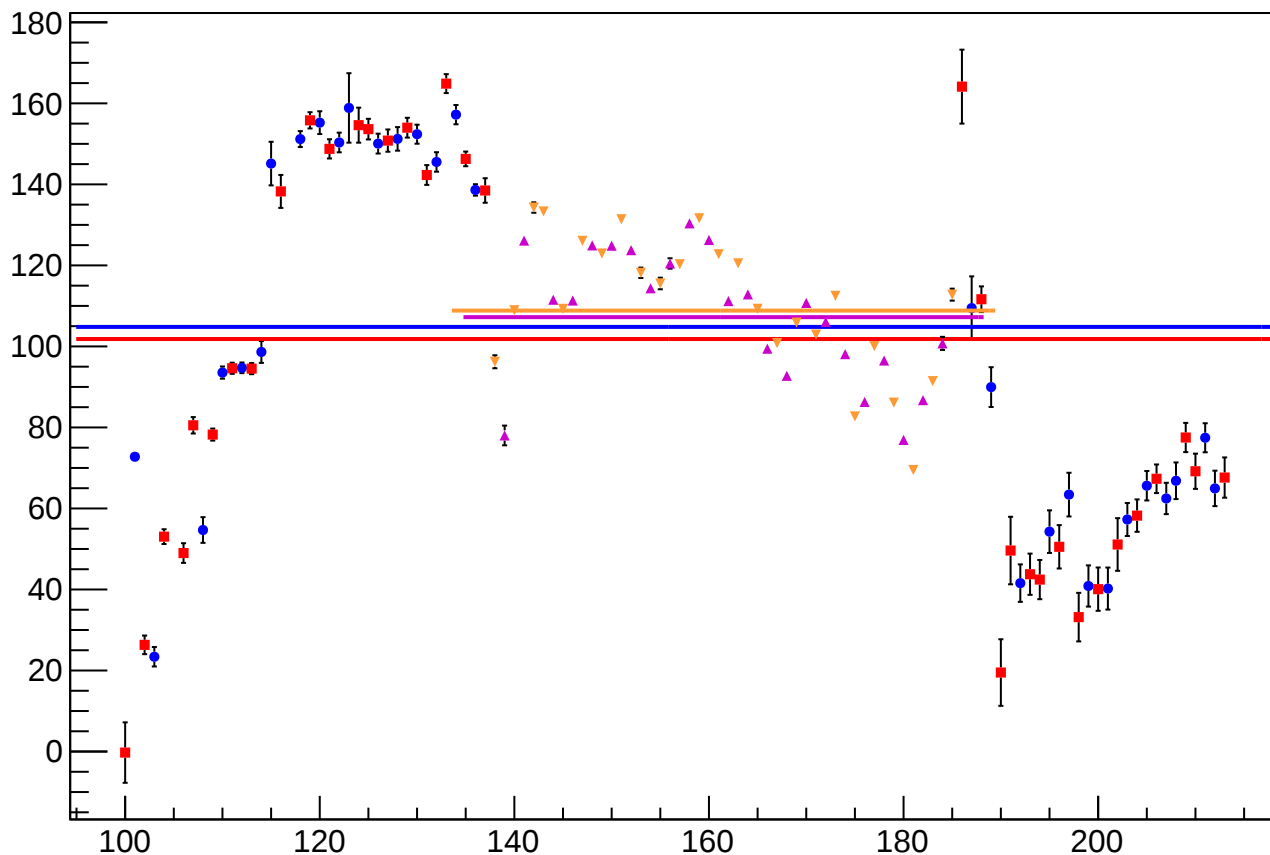
Right: -78.845 ± 0.356 χ^2/NDF : 7663.2/63

In: -59.758 ± 0.208 χ^2/NDF : 21046.1/52

Out: -61.451 ± 0.203 χ^2/NDF : 24700.1/58

All: -60.626 ± 0.145 χ^2/NDF : 45780.2/111

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 104.815 $\pm$ 0.456 χ^2 /NDF: 7275.2/29

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 101.826 $\pm$ 0.454 χ^2 /NDF: 8420.9/33

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

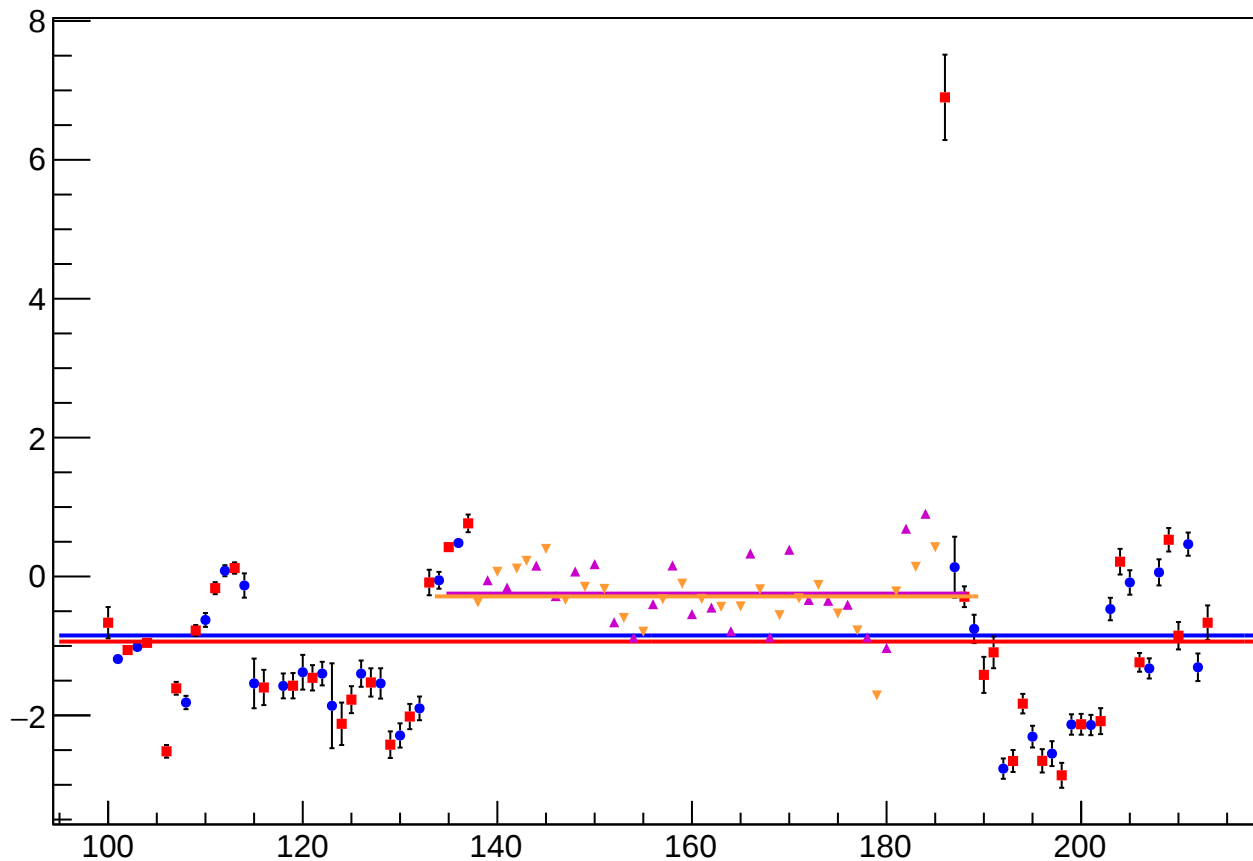
Right: 103.313 $\pm$ 0.322 χ^2 /NDF: 15717.6/63

In: 106.829 $\pm$ 0.185 χ^2 /NDF: 12863.7/52

Out: 107.731 $\pm$ 0.181 χ^2 /NDF: 16022.2/58

All: 107.290 $\pm$ 0.129 χ^2 /NDF: 28898.0/111

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.849 ± 0.023 χ^2/NDF : 1659.3/29

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.937 ± 0.022 χ^2/NDF : 2112.1/33

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

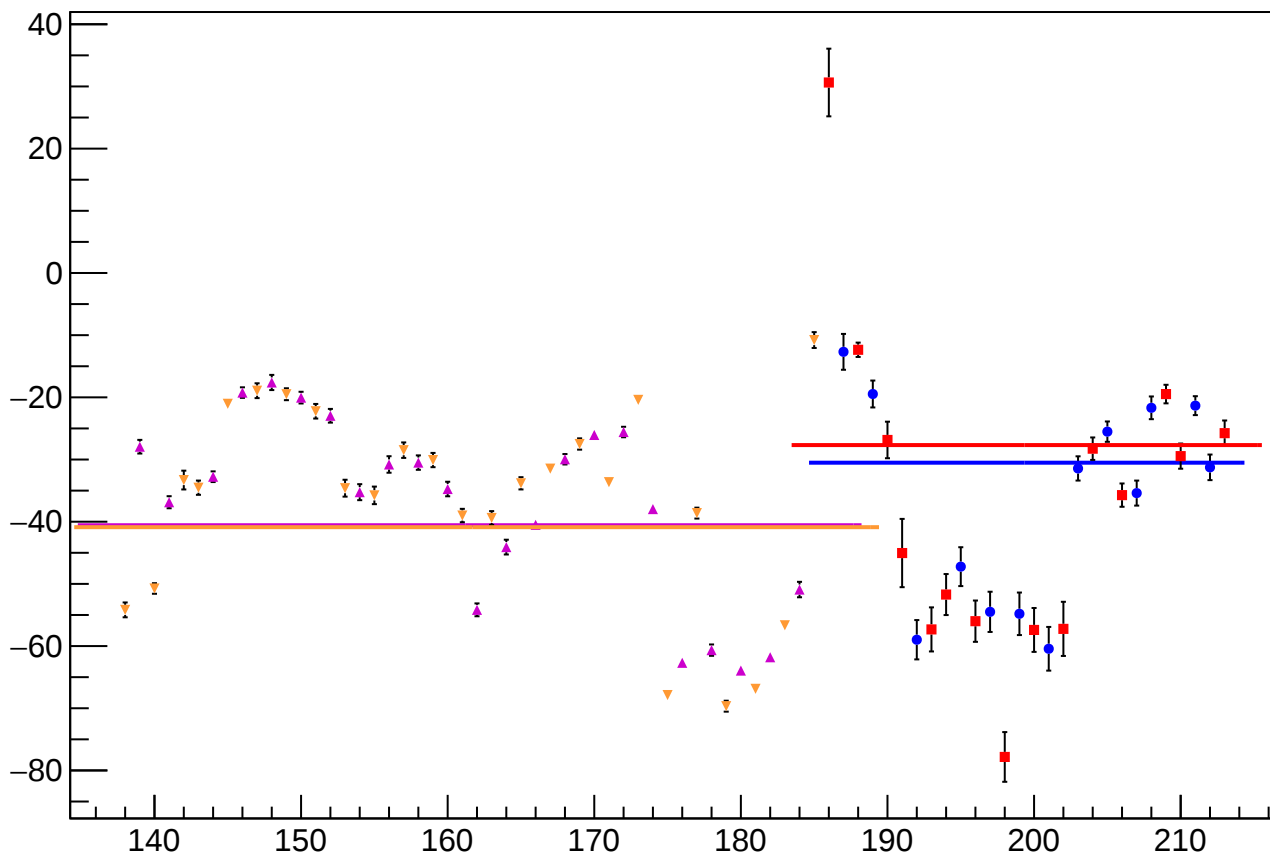
Right: -0.896 ± 0.016 χ^2/NDF : 3779.3/63

In: -0.333 ± 0.009 χ^2/NDF : 5057.6/52

Out: -0.385 ± 0.008 χ^2/NDF : 4939.1/58

All: -0.359 ± 0.006 χ^2/NDF : 10015.6/111

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.509 ± 0.614 $\chi^2/\text{NDF}: 427.4/12$

Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$

Right Out: -27.676 ± 0.586 $\chi^2/\text{NDF}: 821.6/14$

Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$

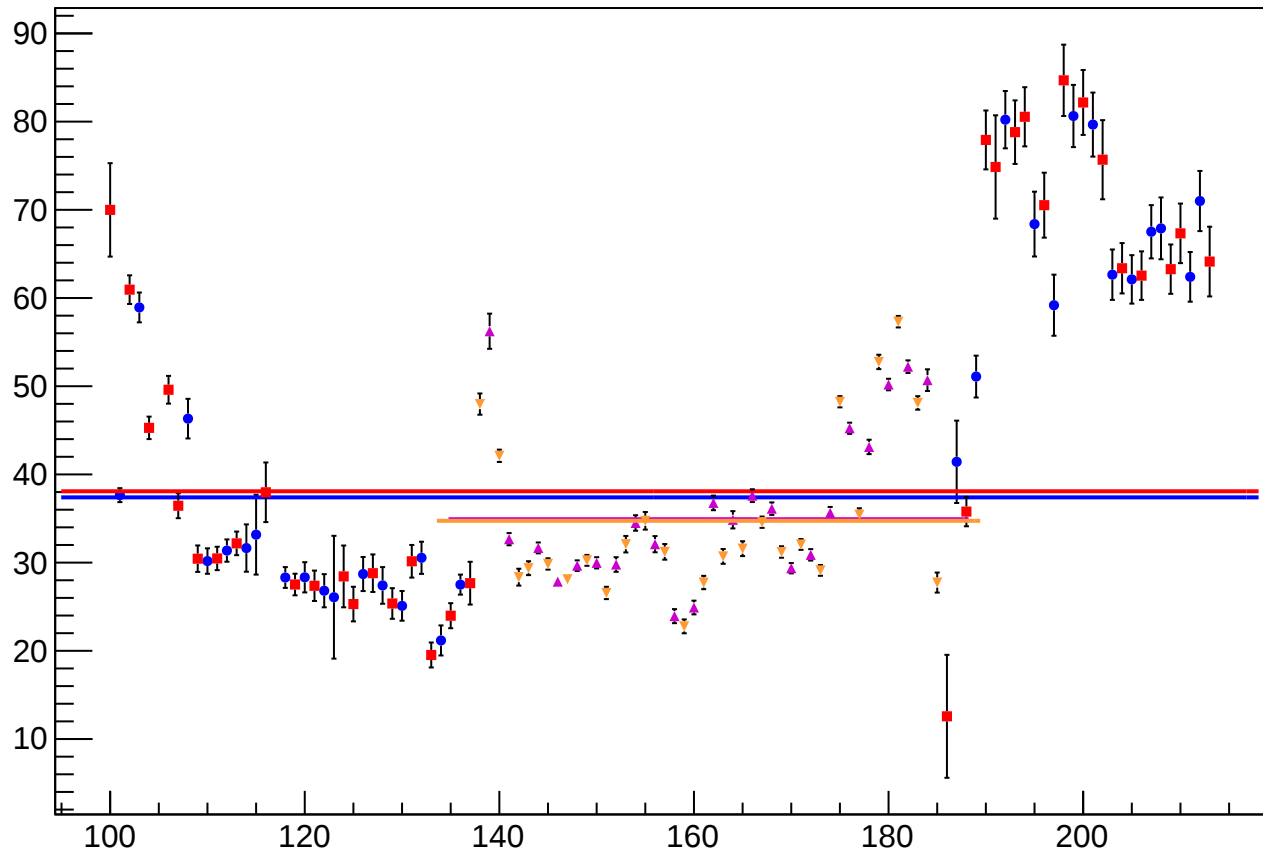
Right: -29.025 ± 0.424 $\chi^2/\text{NDF}: 1260.1/27$

In: -39.689 ± 0.181 $\chi^2/\text{NDF}: 7626.9/35$

Out: -39.668 ± 0.177 $\chi^2/\text{NDF}: 10406.5/39$

All: -39.679 ± 0.127 $\chi^2/\text{NDF}: 18033.3/75$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 37.398+/-0.346 χ^2 /NDF: 1744.6/29

Left Out: 34.741+/-0.147 χ^2 /NDF:3693.2/24

Right Out: 38.089+/-0.345 χ^2 /NDF: 2209.5/33

Left In: 34.922+/-0.152 χ^2 /NDF:2672.9/22

Left: 34.829+/-0.106 χ^2 /NDF: 6366.8/47

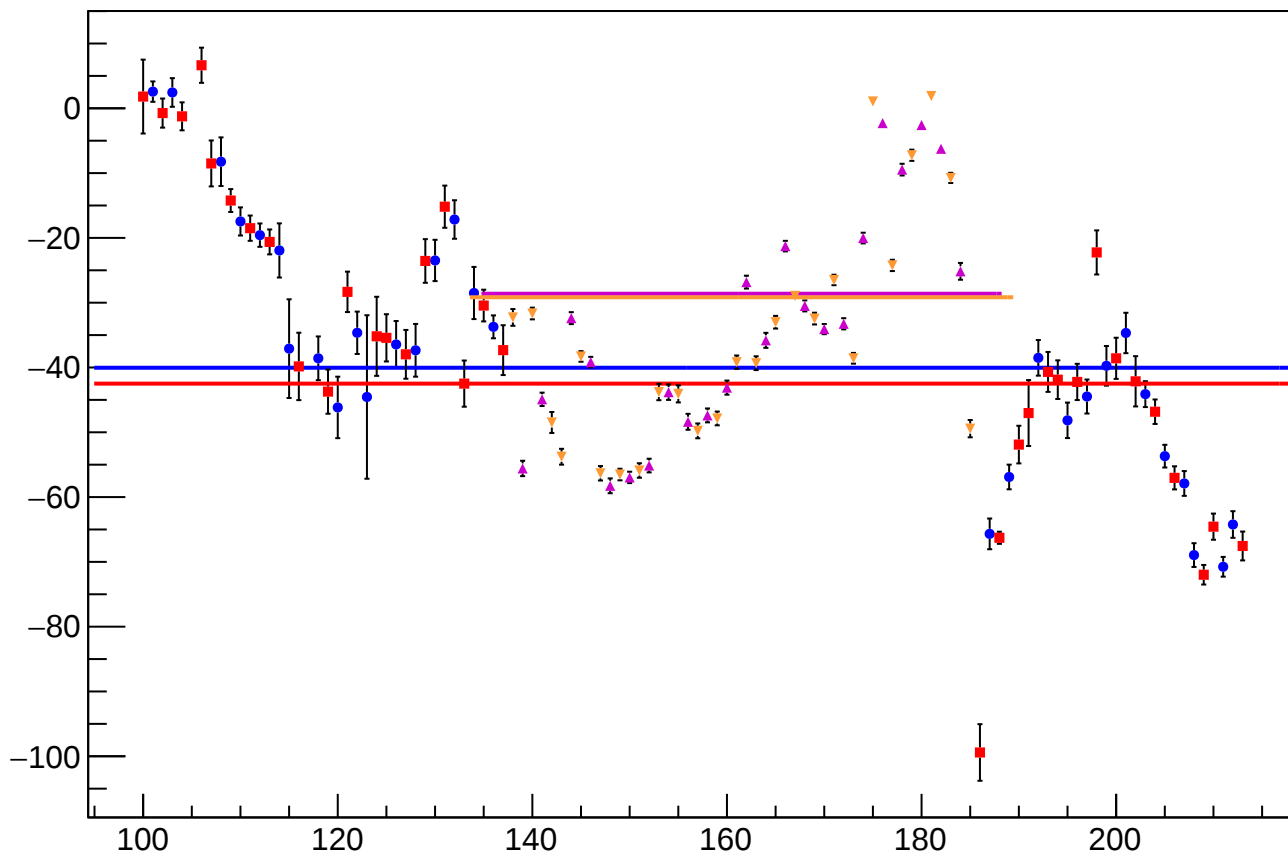
Right: 37.745+/-0.244 χ^2 /NDF: 3956.1/63

In: 35.321+/-0.139 χ^2 /NDF:4460.5/52

Out: 35.258+/-0.136 χ^2 /NDF:5982.4/58

All: 35.289+/-0.097 χ^2 /NDF: 10443.0/111

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -40.040 ± 0.442 $\chi^2/\text{NDF}: 2700.4/29$

Left Out: -29.163 ± 0.187 $\chi^2/\text{NDF}: 10126.0/24$

Right Out: -42.491 ± 0.414 $\chi^2/\text{NDF}: 3449.5/33$

Left In: -28.616 ± 0.190 $\chi^2/\text{NDF}: 9040.9/22$

Left: -28.894 ± 0.133 $\chi^2/\text{NDF}: 19171.1/47$

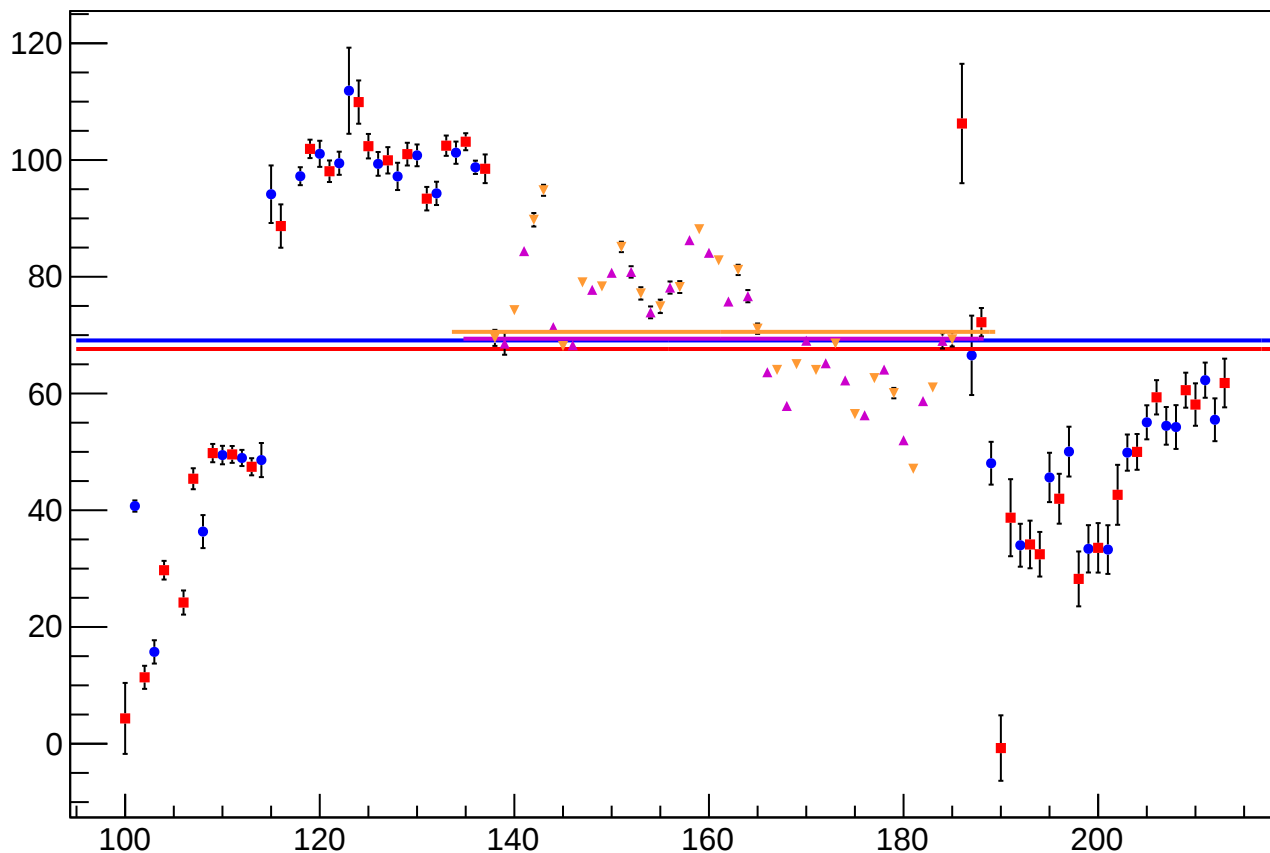
Right: -41.345 ± 0.302 $\chi^2/\text{NDF}: 6166.3/63$

In: -30.398 ± 0.174 $\chi^2/\text{NDF}: 12306.0/52$

Out: -31.424 ± 0.170 $\chi^2/\text{NDF}: 14437.0/58$

All: -30.922 ± 0.122 $\chi^2/\text{NDF}: 26760.8/111$

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 69.092 $\pm$ 0.395 χ^2 /NDF: 5179.1/29

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF: 4589.1/24

Right Out: 67.625 $\pm$ 0.397 χ^2 /NDF: 6135.2/33

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

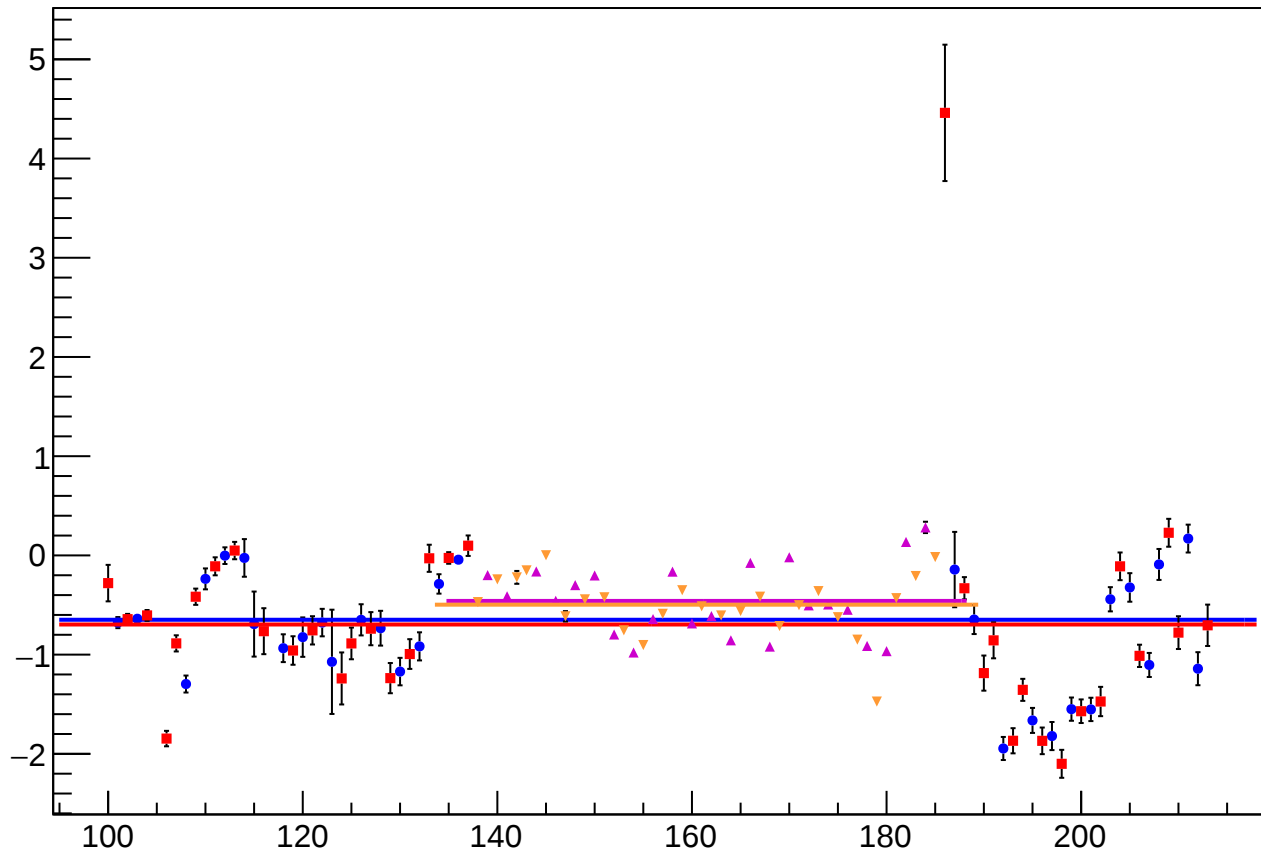
Right: 68.362 $\pm$ 0.280 χ^2 /NDF: 11321.2/63

In: 69.341 $\pm$ 0.156 χ^2 /NDF: 8501.4/52

Out: 70.125 $\pm$ 0.153 χ^2 /NDF: 10770.9/58

All: 69.741 $\pm$ 0.109 χ^2 /NDF: 19285.1/111

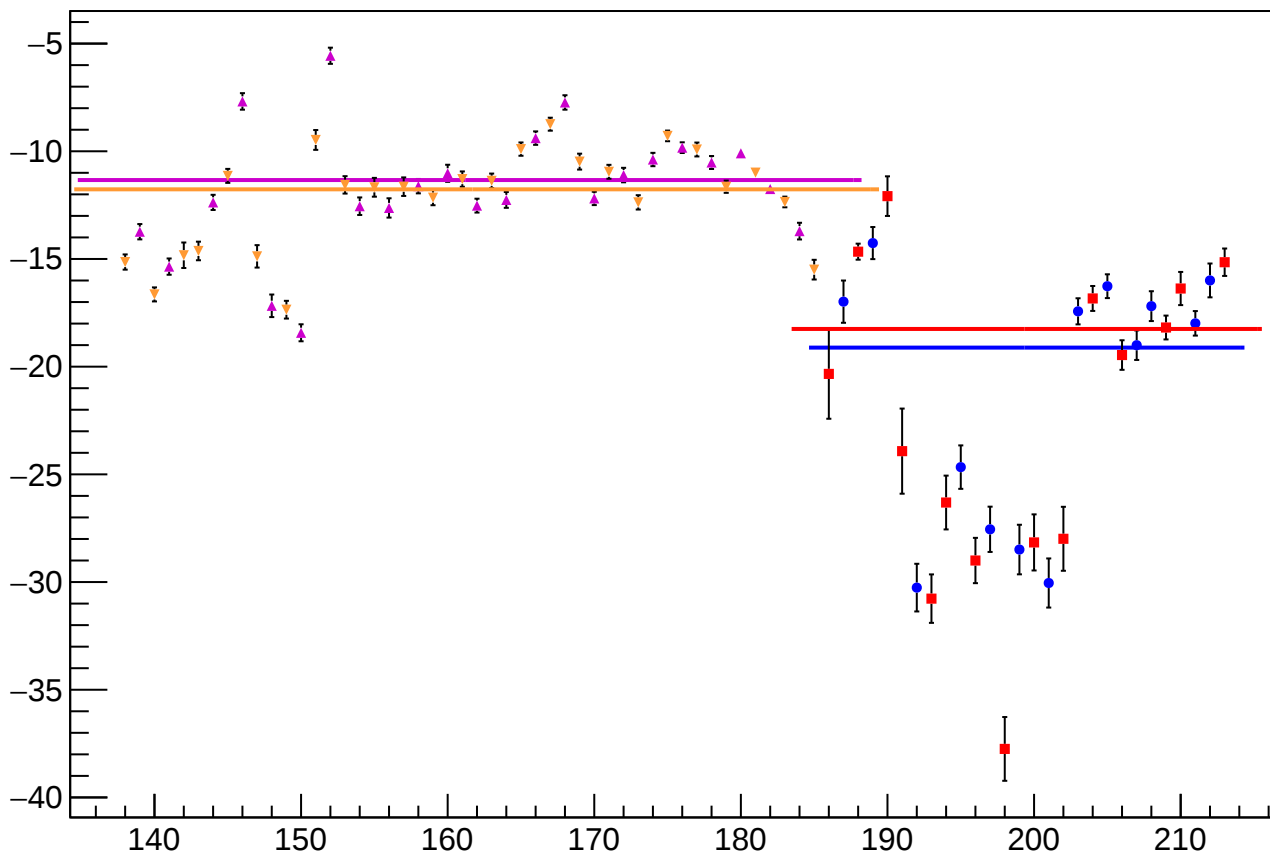
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.649 ± 0.019 χ^2/NDF : 802.4/29
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.696 ± 0.018 χ^2/NDF : 1121.9/33
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.673 ± 0.013 χ^2/NDF : 1927.5/63
 In: -0.485 ± 0.007 χ^2/NDF : 2844.5/52
 Out: -0.525 ± 0.007 χ^2/NDF : 2671.0/58
 All: -0.506 ± 0.005 χ^2/NDF : 5531.7/111

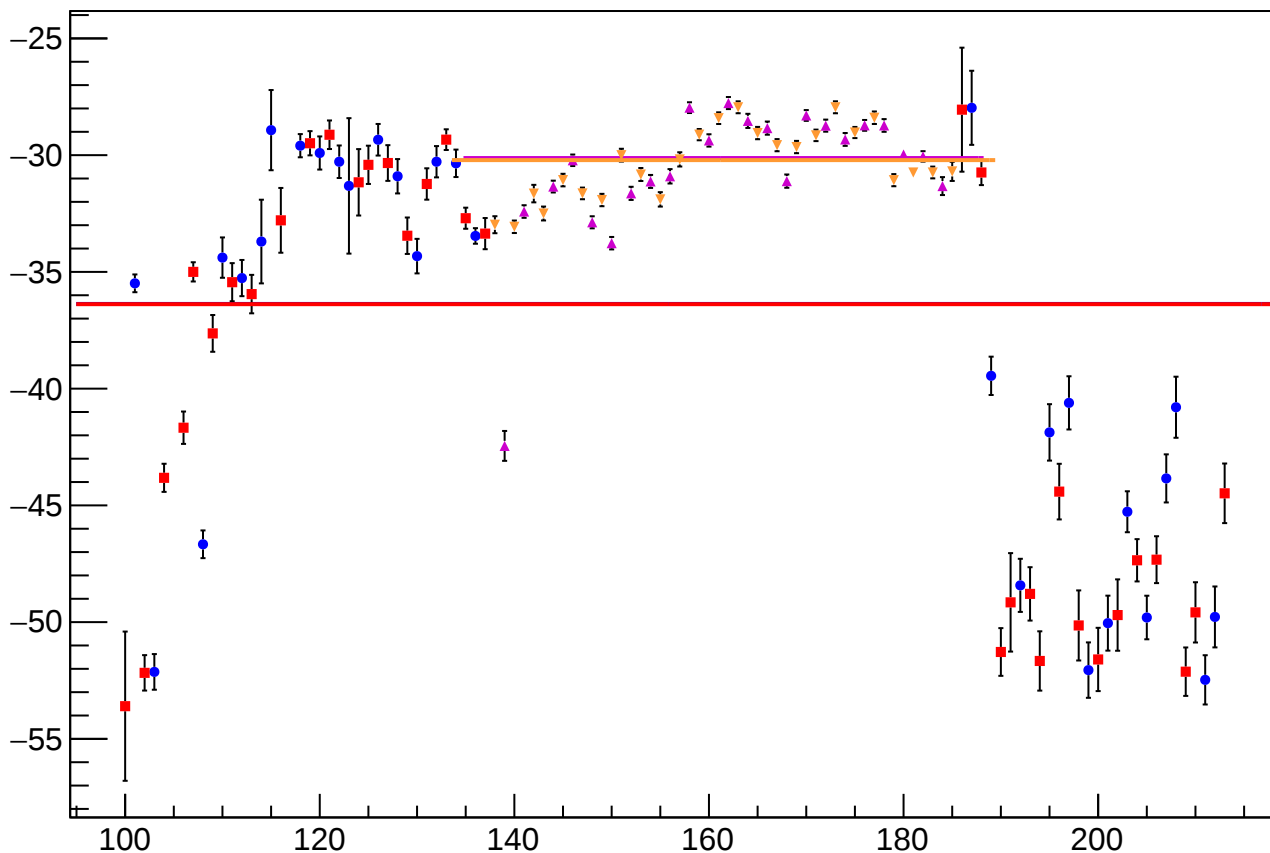
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.115 ± 0.213 $\chi^2/\text{NDF}: 463.3/12$
 Left Out: -11.767 ± 0.067 $\chi^2/\text{NDF}: 1020.8/24$
 Right Out: -18.249 ± 0.199 $\chi^2/\text{NDF}: 730.2/14$
 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: -18.652 ± 0.145 $\chi^2/\text{NDF}: 1202.3/27$
 In: -12.055 ± 0.065 $\chi^2/\text{NDF}: 2940.4/35$
 Out: -12.421 ± 0.063 $\chi^2/\text{NDF}: 2704.9/39$
 All: -12.242 ± 0.045 $\chi^2/\text{NDF}: 5661.6/75$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -36.373 ± 0.136 $\chi^2/\text{NDF}: 2755.2/29$

Left Out: -30.212 ± 0.054 $\chi^2/\text{NDF}: 734.0/24$

Right Out: -36.382 ± 0.133 $\chi^2/\text{NDF}: 3156.7/33$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

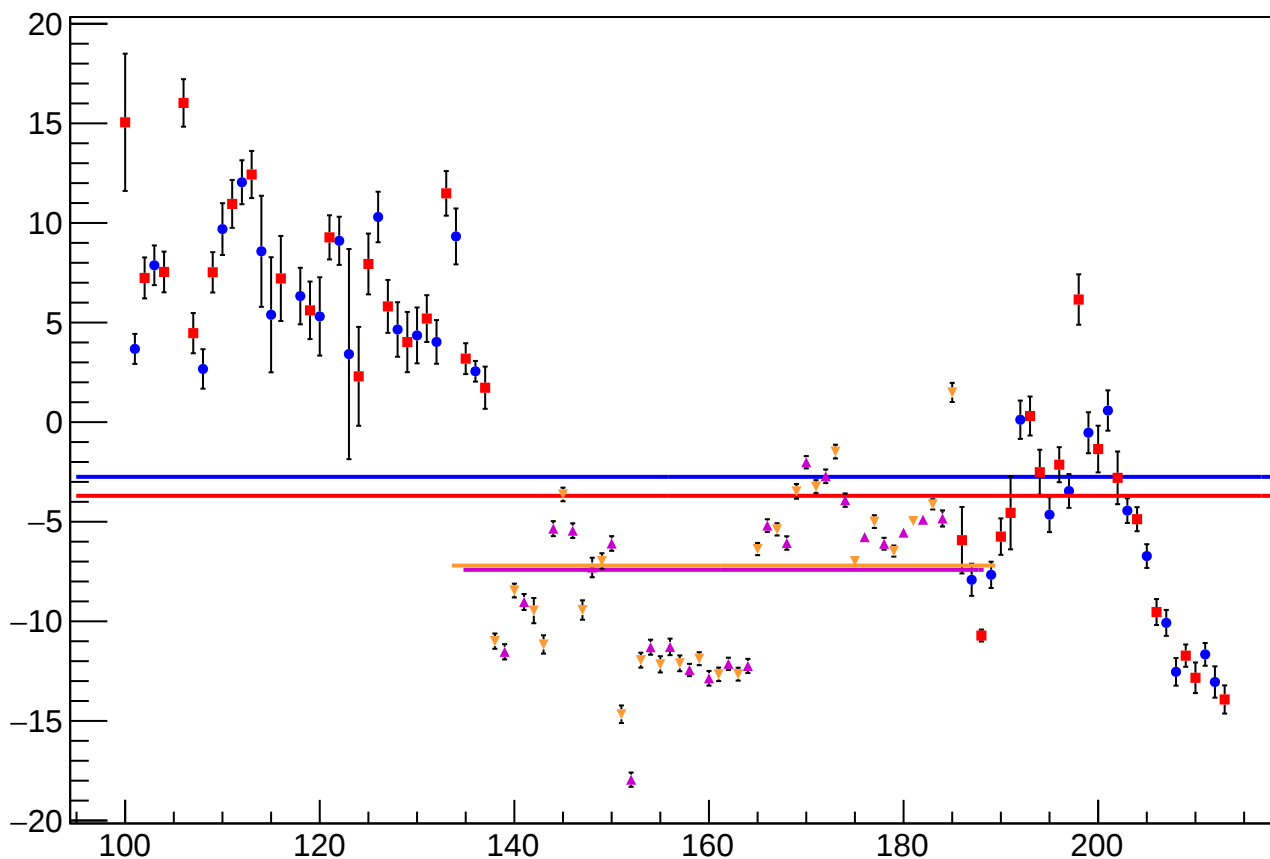
Right: -36.377 ± 0.095 $\chi^2/\text{NDF}: 5911.9/63$

In: -31.020 ± 0.051 $\chi^2/\text{NDF}: 5797.9/52$

Out: -31.080 ± 0.050 $\chi^2/\text{NDF}: 5737.7/58$

All: -31.051 ± 0.036 $\chi^2/\text{NDF}: 11536.3/111$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.747 ± 0.163 χ^2/NDF : 1963.9/29

Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24

Right Out: -3.699 ± 0.152 χ^2/NDF : 3030.8/33

Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47

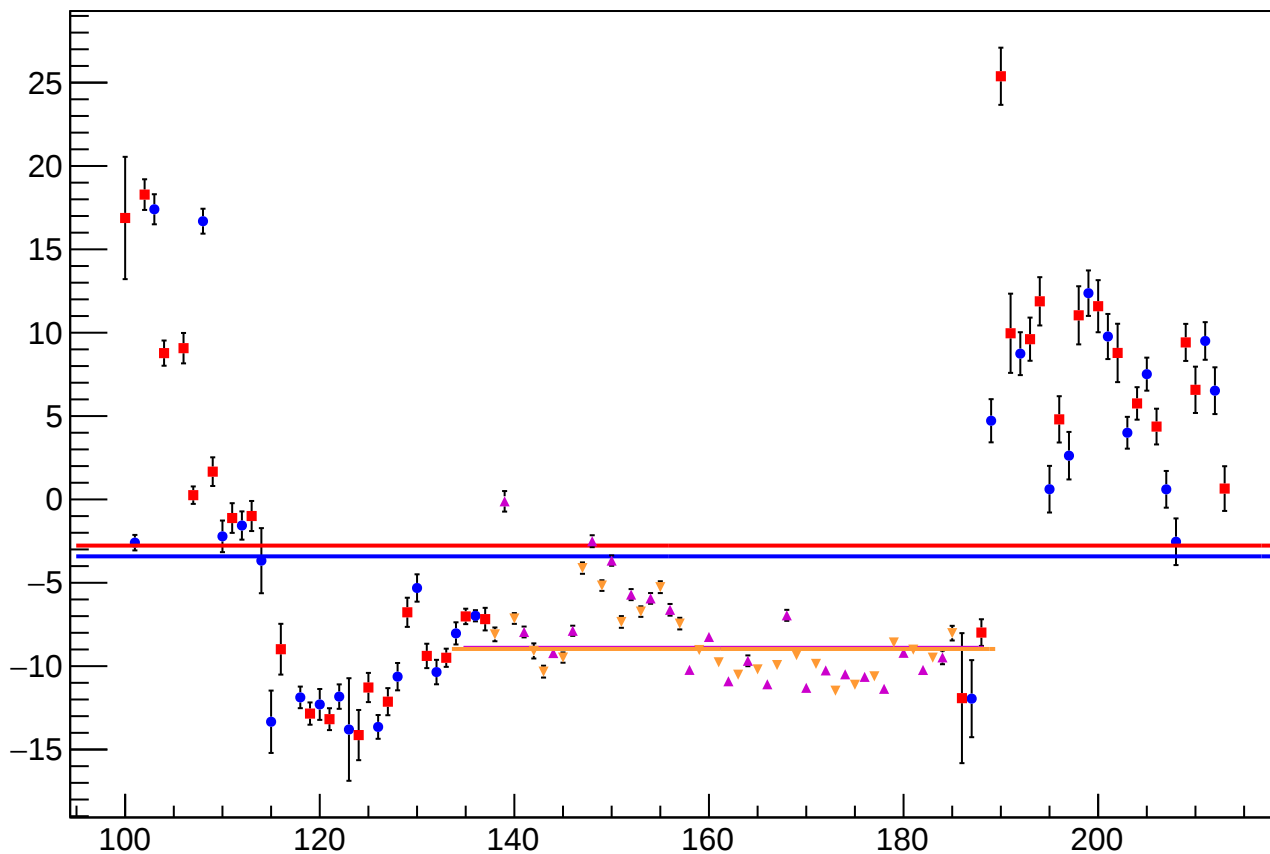
Right: -3.255 ± 0.111 χ^2/NDF : 5013.0/63

In: -6.724 ± 0.063 χ^2/NDF : 5787.7/52

Out: -6.632 ± 0.061 χ^2/NDF : 6511.6/58

All: -6.677 ± 0.044 χ^2/NDF : 12300.5/111

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.415 ± 0.154 χ^2/NDF : 3013.3/29

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.769 ± 0.154 χ^2/NDF : 3237.1/33

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

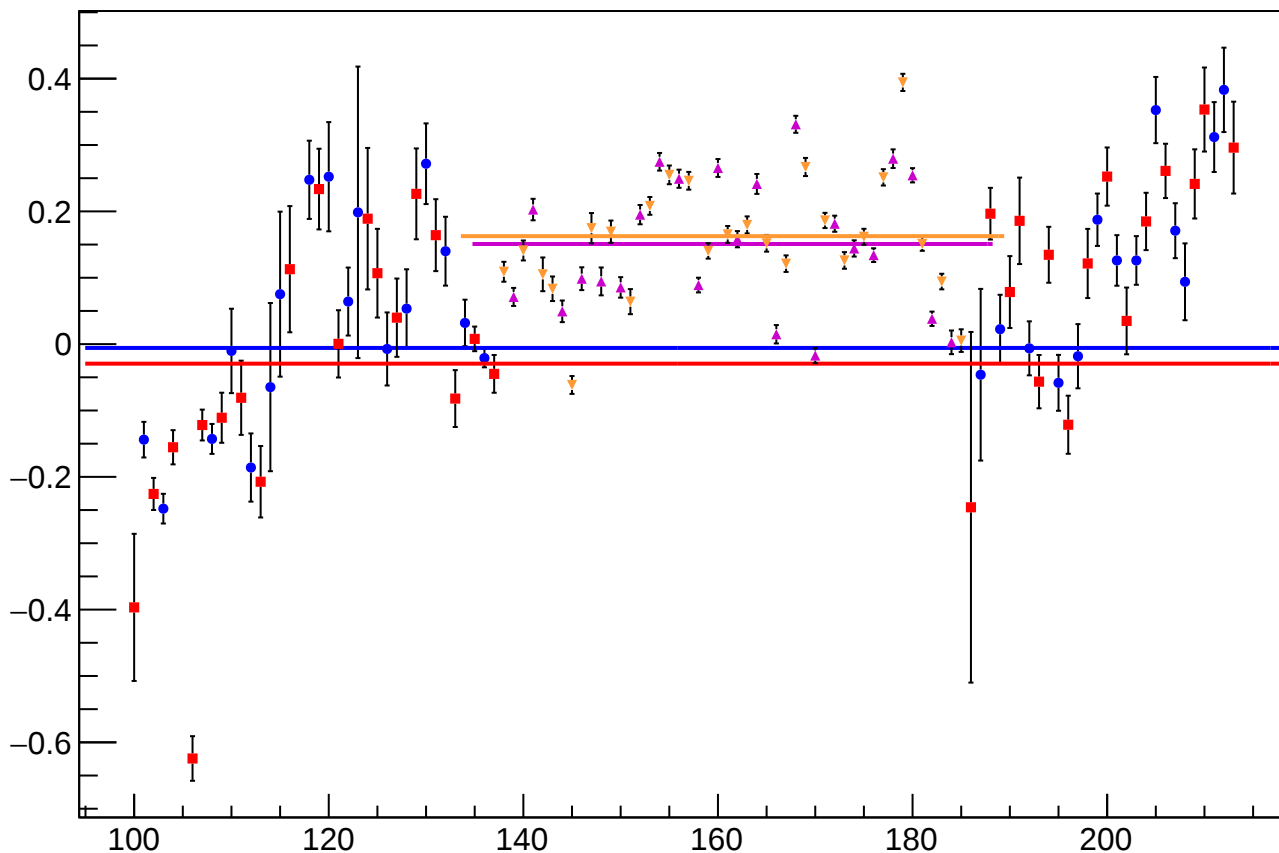
Right: -3.094 ± 0.109 χ^2/NDF : 6259.3/63

In: -8.139 ± 0.057 χ^2/NDF : 5645.9/52

Out: -8.152 ± 0.056 χ^2/NDF : 5516.6/58

All: -8.146 ± 0.040 χ^2/NDF : 11162.6/111

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.007 $\chi^2/\text{NDF}: 454.3/29$

Left Out: 0.163 ± 0.003 $\chi^2/\text{NDF}: 1018.1/24$

Right Out: -0.029 ± 0.007 $\chi^2/\text{NDF}: 791.5/33$

Left In: 0.151 ± 0.003 $\chi^2/\text{NDF}: 1286.5/22$

Left: 0.157 ± 0.002 $\chi^2/\text{NDF}: 2313.9/47$

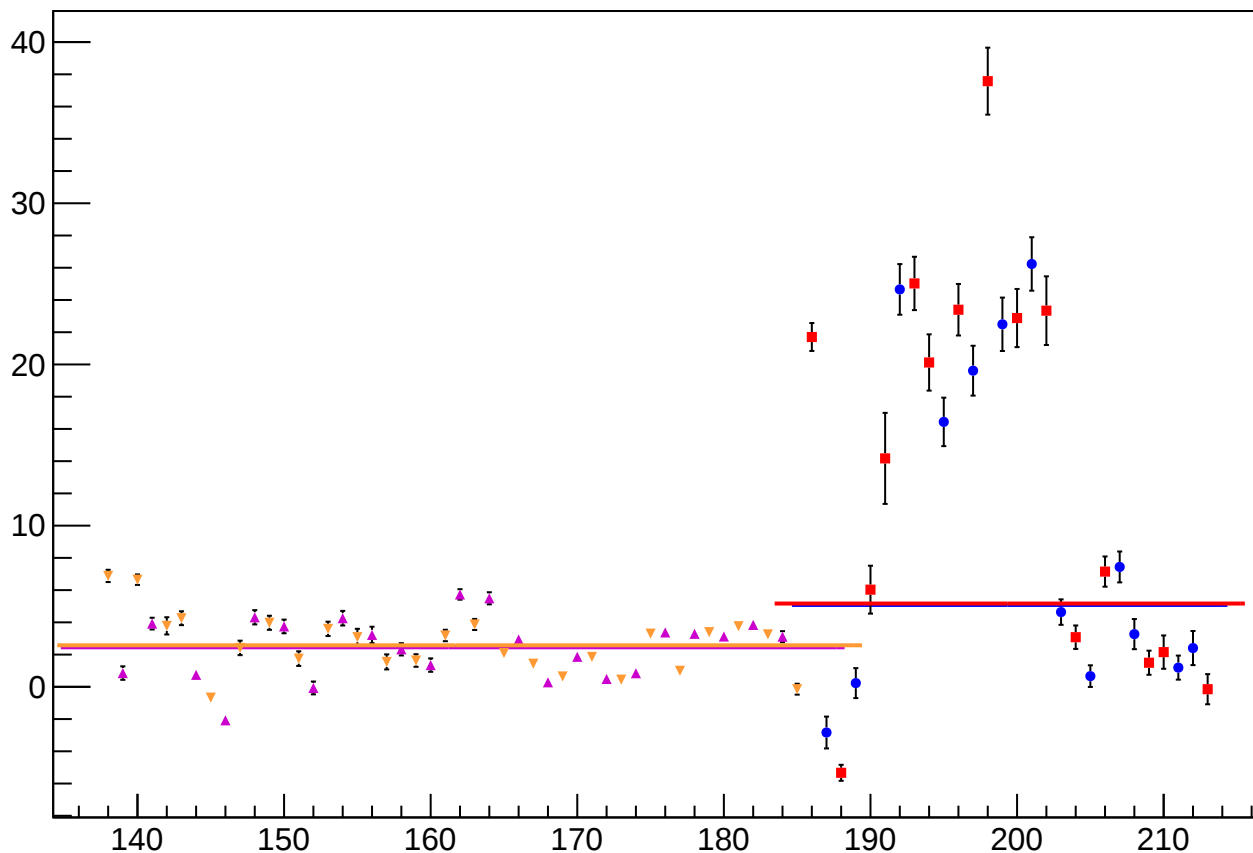
Right: -0.018 ± 0.005 $\chi^2/\text{NDF}: 1251.4/63$

In: 0.130 ± 0.003 $\chi^2/\text{NDF}: 2169.0/52$

Out: 0.138 ± 0.003 $\chi^2/\text{NDF}: 2458.4/58$

All: 0.134 ± 0.002 $\chi^2/\text{NDF}: 4631.8/111$

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.080 ± 0.278 $\chi^2/\text{NDF}: 752.1/12$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 5.168 ± 0.261 $\chi^2/\text{NDF}: 1659.9/14$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

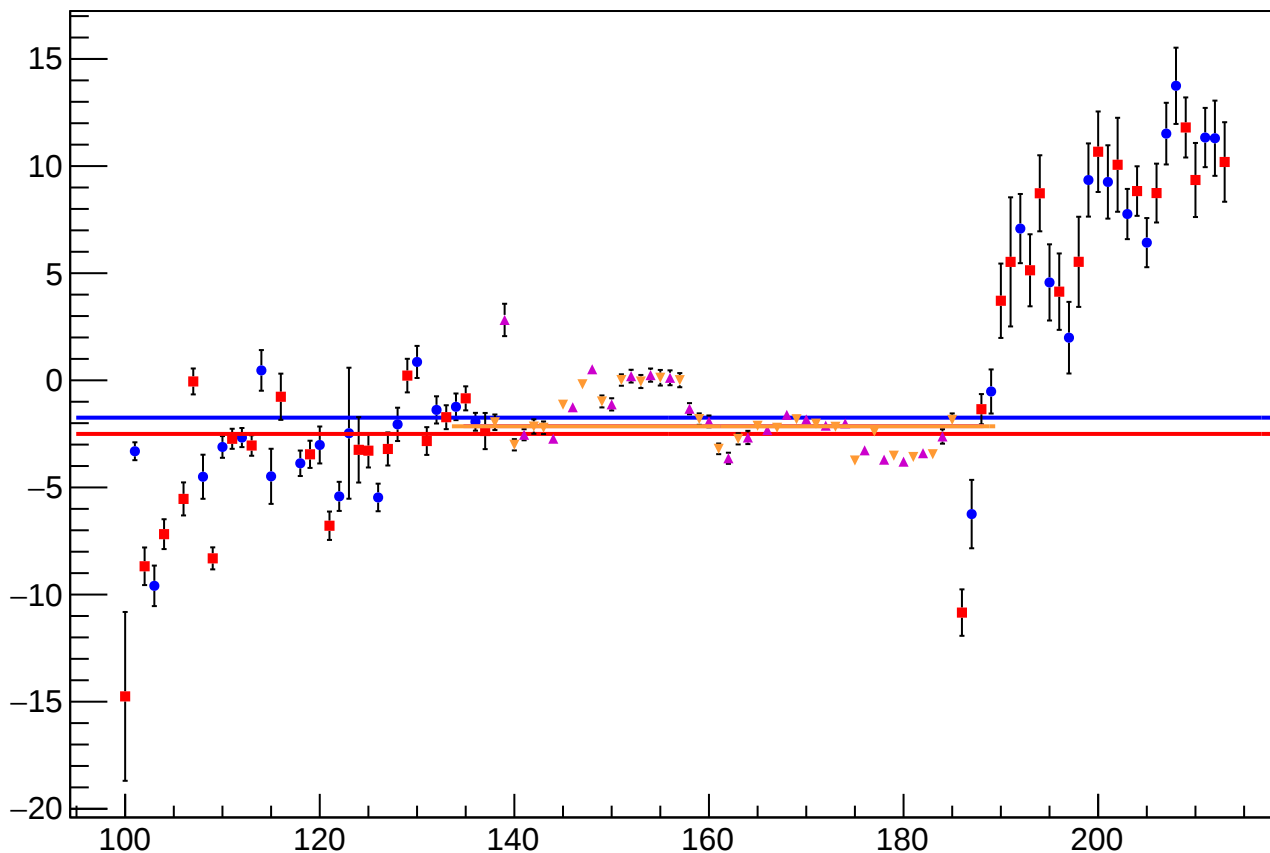
Right: 5.127 ± 0.190 $\chi^2/\text{NDF}: 2412.0/27$

In: 2.567 ± 0.058 $\chi^2/\text{NDF}: 1708.7/35$

Out: 2.700 ± 0.057 $\chi^2/\text{NDF}: 2621.4/39$

All: 2.635 ± 0.041 $\chi^2/\text{NDF}: 4332.8/75$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.742 ± 0.145 $\chi^2/\text{NDF}: 764.9/29$

Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$

Right Out: -2.502 ± 0.143 $\chi^2/\text{NDF}: 951.2/33$

Left In: -2.136 ± 0.048 $\chi^2/\text{NDF}: 691.2/22$

Left: -2.141 ± 0.034 $\chi^2/\text{NDF}: 1264.6/47$

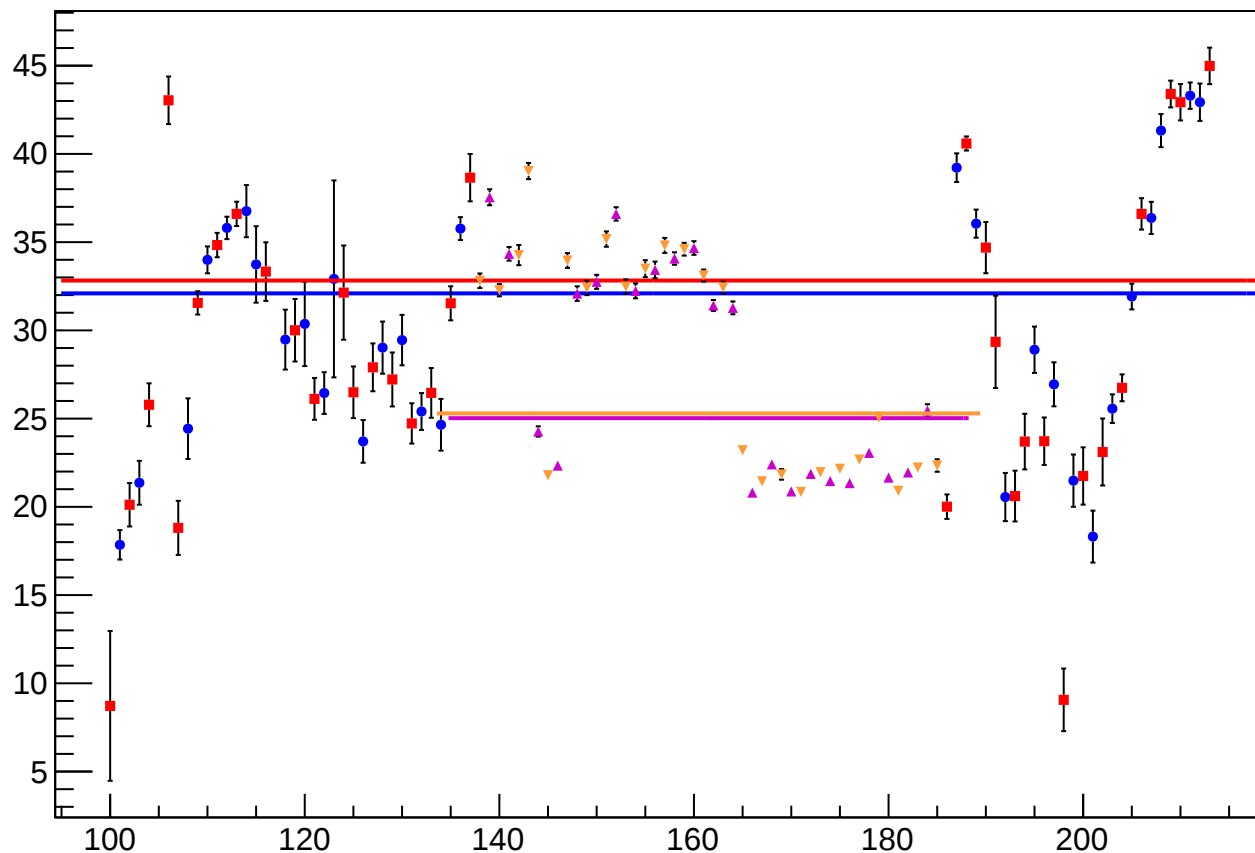
Right: -2.128 ± 0.102 $\chi^2/\text{NDF}: 1730.0/63$

In: -2.097 ± 0.046 $\chi^2/\text{NDF}: 1462.8/52$

Out: -2.182 ± 0.045 $\chi^2/\text{NDF}: 1530.2/58$

All: -2.140 ± 0.032 $\chi^2/\text{NDF}: 2994.7/111$

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.097 $\pm$ 0.189 χ^2 /NDF: 1464.6/29

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF:8272.3/24

Right Out: 32.825 $\pm$ 0.175 χ^2 /NDF: 2163.4/33

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

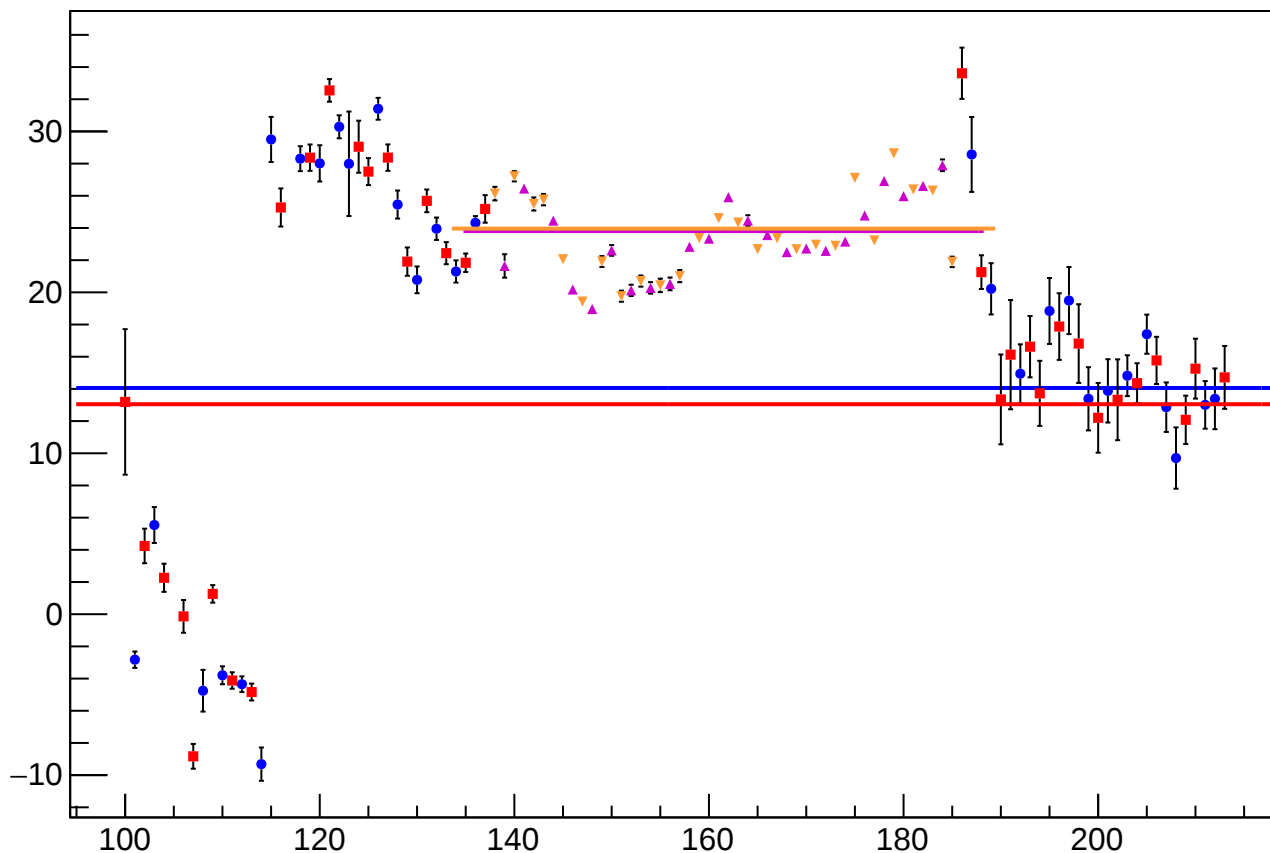
Right: 32.489 $\pm$ 0.128 χ^2 /NDF: 3636.0/63

In: 25.668 $\pm$ 0.057 χ^2 /NDF:10353.8/52

Out: 26.062 $\pm$ 0.056 χ^2 /NDF:12101.5/58

All: 25.868 $\pm$ 0.040 χ^2 /NDF: 22479.8/111

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.058 $\pm$ 0.162 χ^2 /NDF: 7357.4/29

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.049 $\pm$ 0.162 χ^2 /NDF: 7214.8/33

Left In: 23.805 $\pm$ 0.054 χ^2 /NDF:1761.3/22

Left: 23.885 $\pm$ 0.038 χ^2 /NDF: 3688.0/47

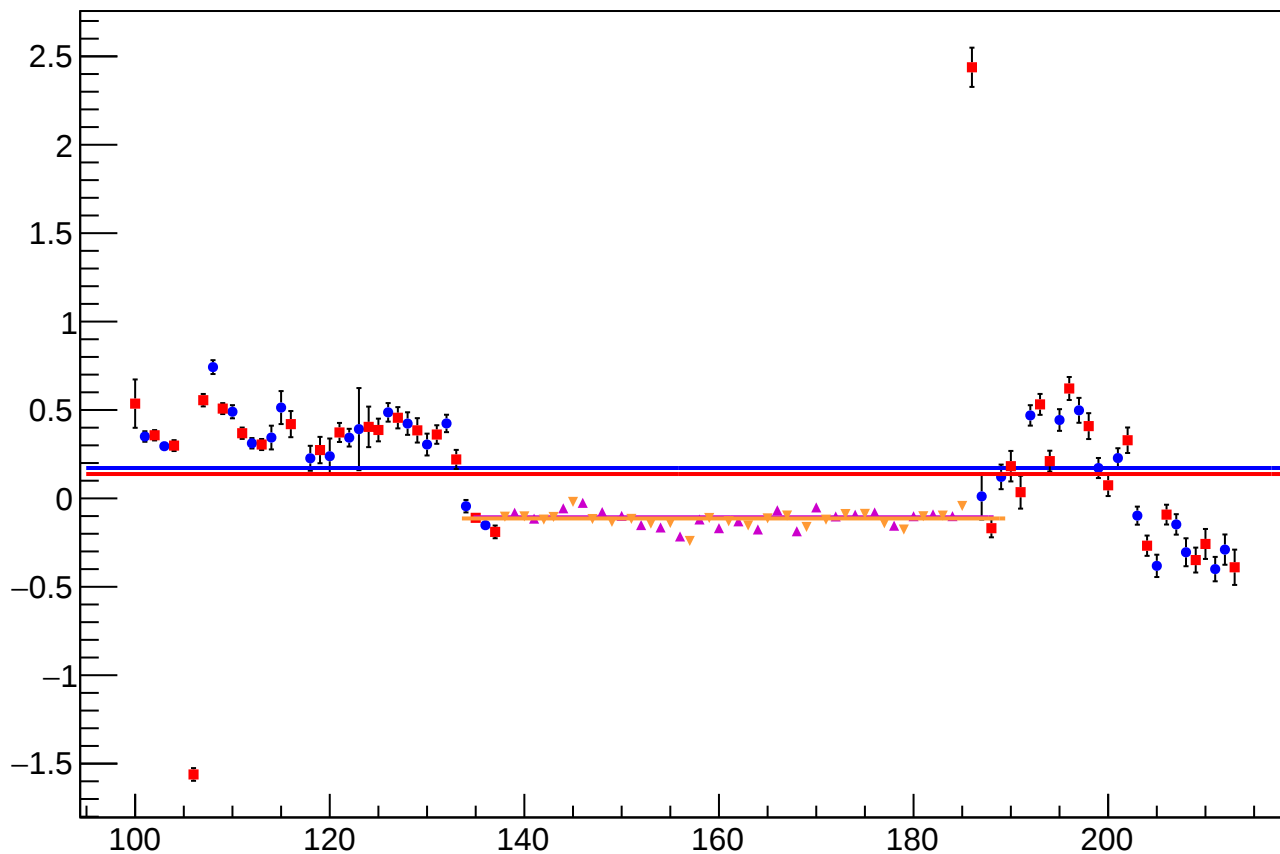
Right: 13.554 $\pm$ 0.115 χ^2 /NDF: 14591.6/63

In: 22.831 $\pm$ 0.051 χ^2 /NDF:12368.3/52

Out: 22.905 $\pm$ 0.051 χ^2 /NDF:13219.9/58

All: 22.869 $\pm$ 0.036 χ^2 /NDF: 25589.2/111

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.008 χ^2 /NDF: 1198.3/29

Left Out: -0.113 $\pm$ 0.002 χ^2 /NDF: 291.0/24

Right Out: 0.138 $\pm$ 0.008 χ^2 /NDF: 3767.5/33

Left In: -0.107 $\pm$ 0.002 χ^2 /NDF: 321.8/22

Left: -0.110 $\pm$ 0.002 χ^2 /NDF: 616.6/47

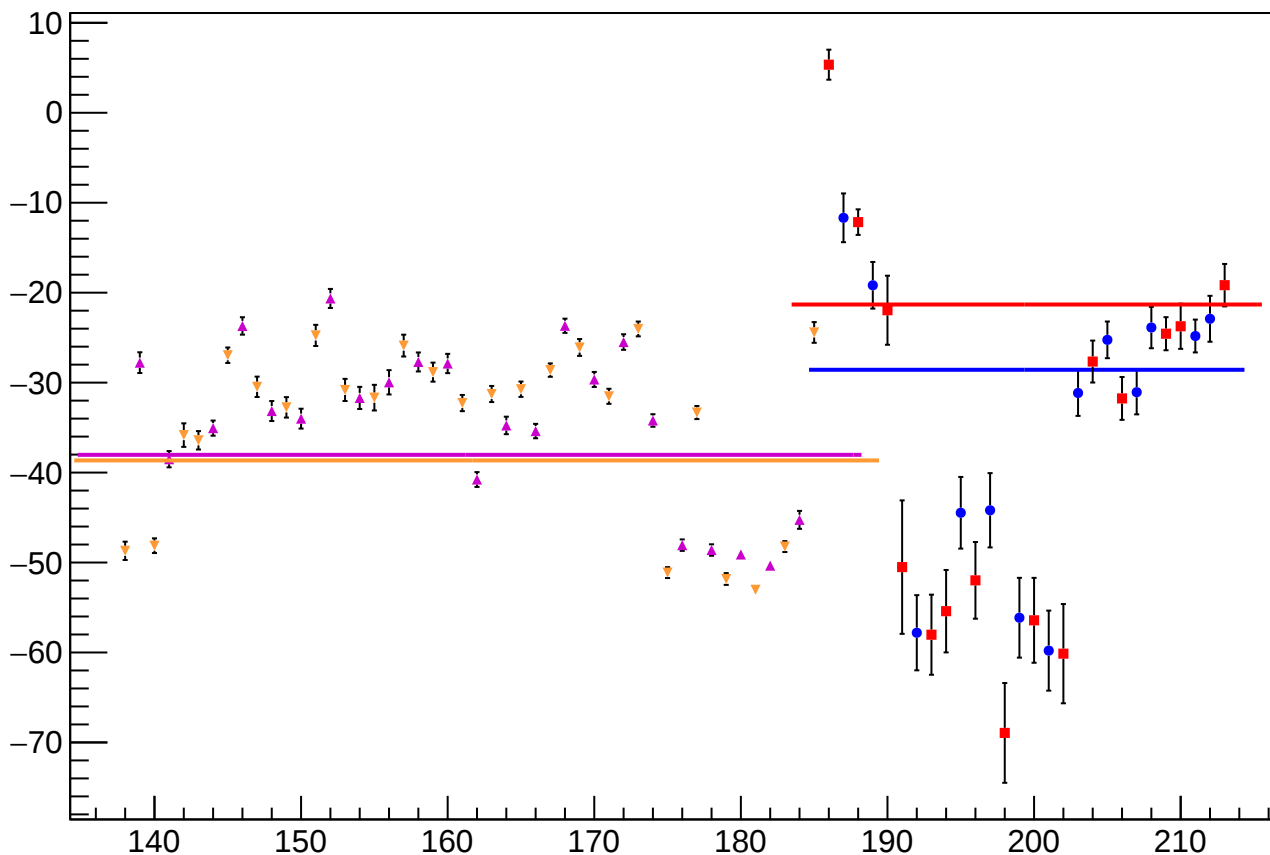
Right: 0.155 $\pm$ 0.006 χ^2 /NDF: 4974.3/63

In: -0.084 $\pm$ 0.002 χ^2 /NDF: 2552.2/52

Out: -0.093 $\pm$ 0.002 χ^2 /NDF: 4929.1/58

All: -0.089 $\pm$ 0.002 χ^2 /NDF: 7488.6/111

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected

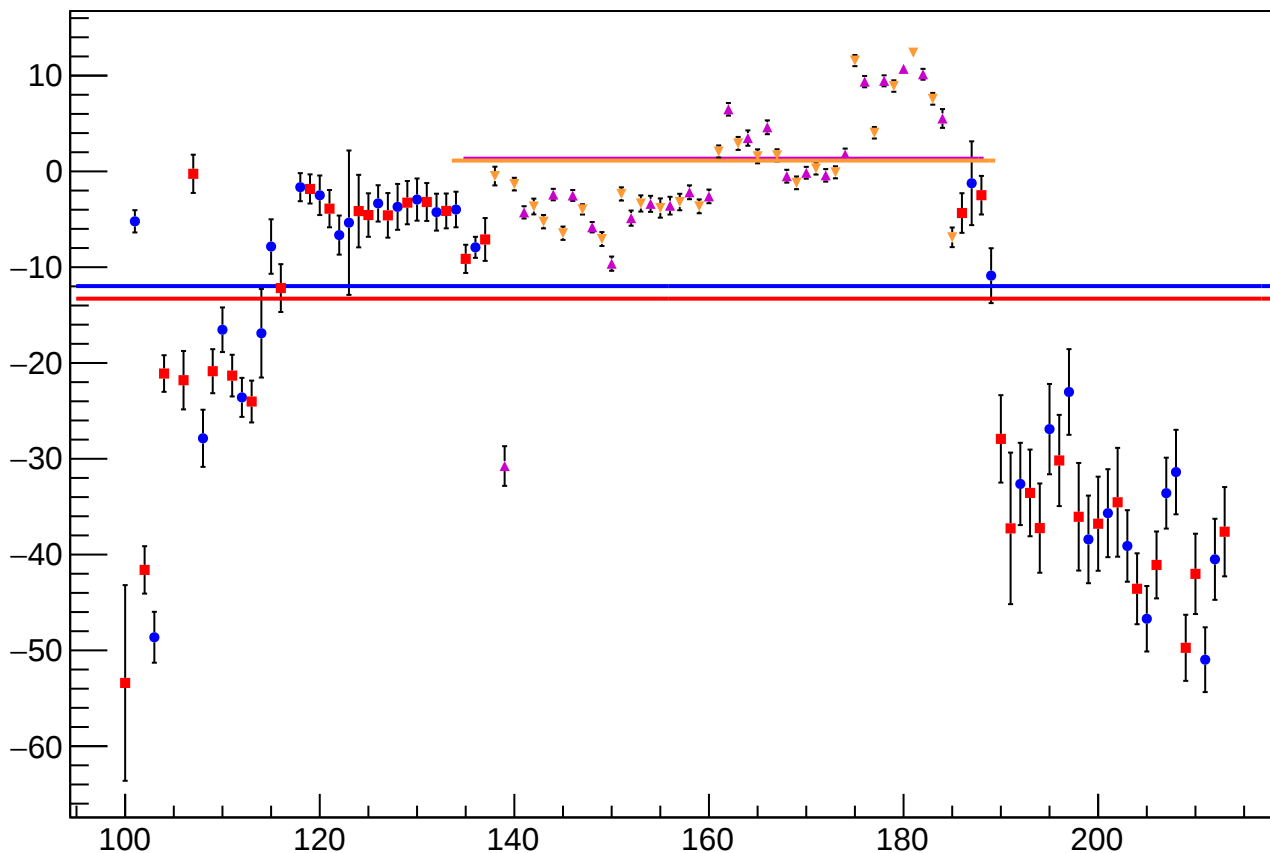


Right In: -28.571 ± 0.752 χ^2/NDF : 237.0/12
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -21.315 ± 0.675 χ^2/NDF : 697.5/14
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -24.549 ± 0.502 χ^2/NDF : 986.0/27
 In: -37.551 ± 0.169 χ^2/NDF : 3479.0/35
 Out: -37.625 ± 0.164 χ^2/NDF : 5396.0/39

All: -37.589 ± 0.118 χ^2/NDF : 8875.1/75

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.973 ± 0.429 χ^2/NDF : 961.4/29

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -13.284 ± 0.436 χ^2/NDF : 959.2/33

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

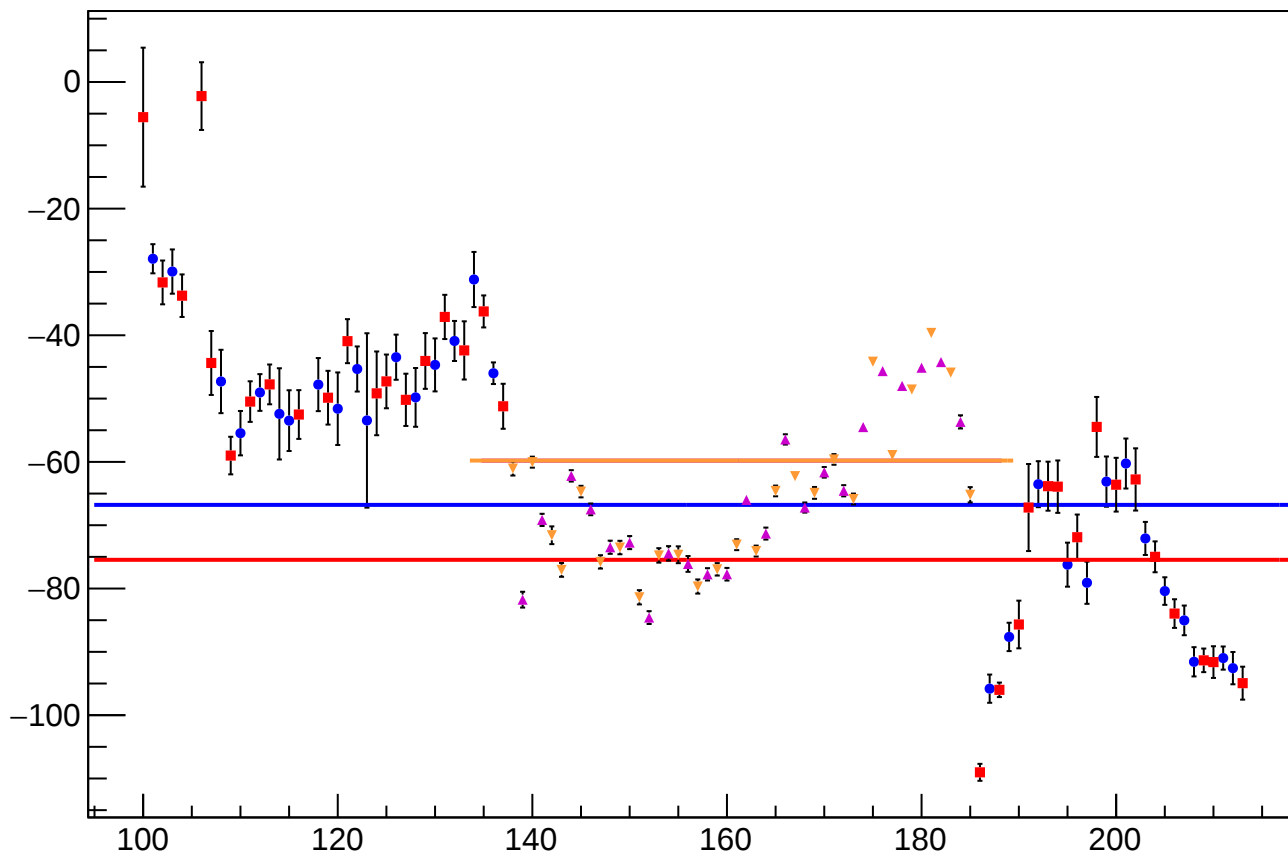
Right: -12.618 ± 0.306 χ^2/NDF : 1925.2/63

In: 0.051 ± 0.133 χ^2/NDF : 3879.1/52

Out: -0.149 ± 0.130 χ^2/NDF : 3755.6/58

All: -0.051 ± 0.093 χ^2/NDF : 7635.8/111

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.789 ± 0.544 $\chi^2/\text{NDF}: 1679.9/29$

Left Out: -59.789 ± 0.170 $\chi^2/\text{NDF}: 5837.7/24$

Right Out: -75.463 ± 0.497 $\chi^2/\text{NDF}: 2723.6/33$

Left In: -59.802 ± 0.173 $\chi^2/\text{NDF}: 5217.5/22$

Left: -59.795 ± 0.121 $\chi^2/\text{NDF}: 11055.3/47$

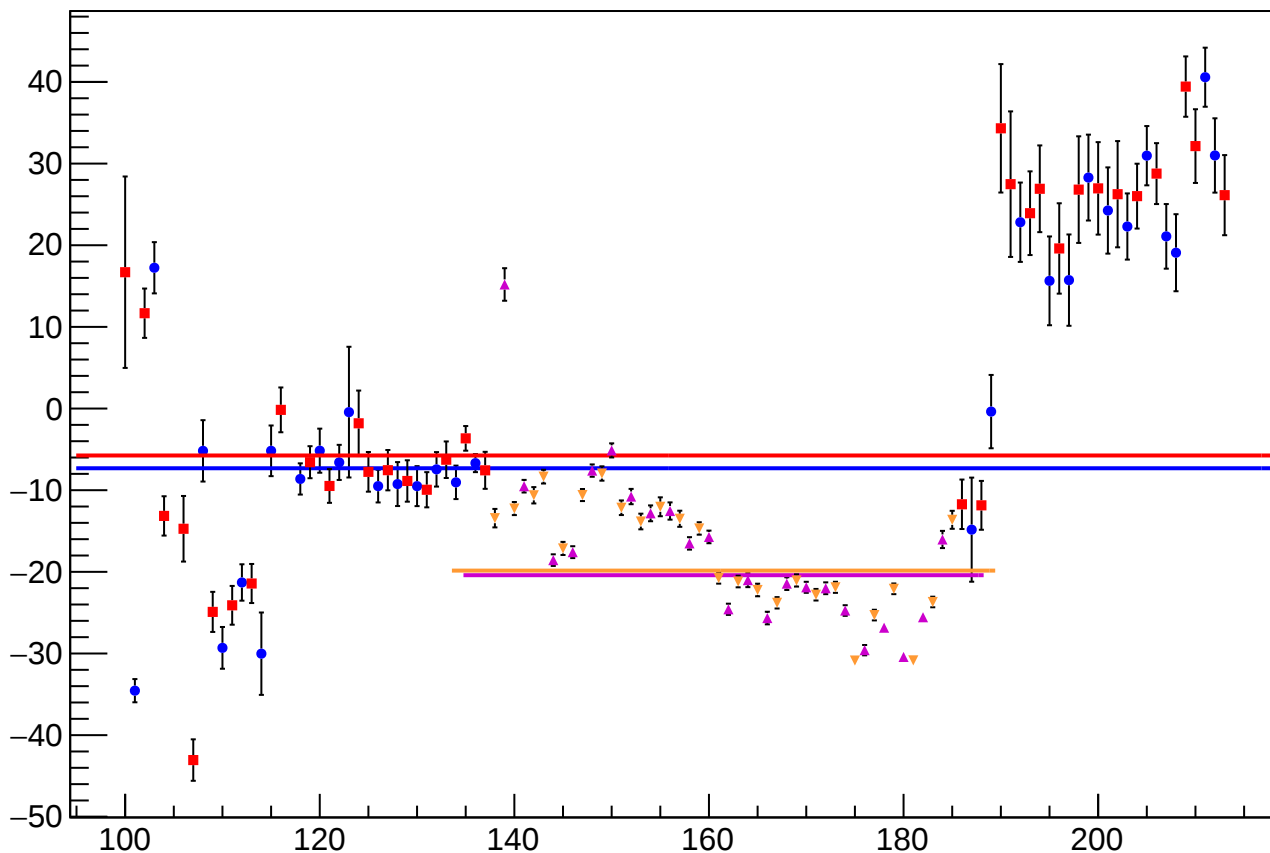
Right: -71.513 ± 0.367 $\chi^2/\text{NDF}: 4542.0/63$

In: -60.446 ± 0.165 $\chi^2/\text{NDF}: 7047.2/52$

Out: -61.430 ± 0.161 $\chi^2/\text{NDF}: 9450.4/58$

All: -60.951 ± 0.115 $\chi^2/\text{NDF}: 16515.8/111$

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected

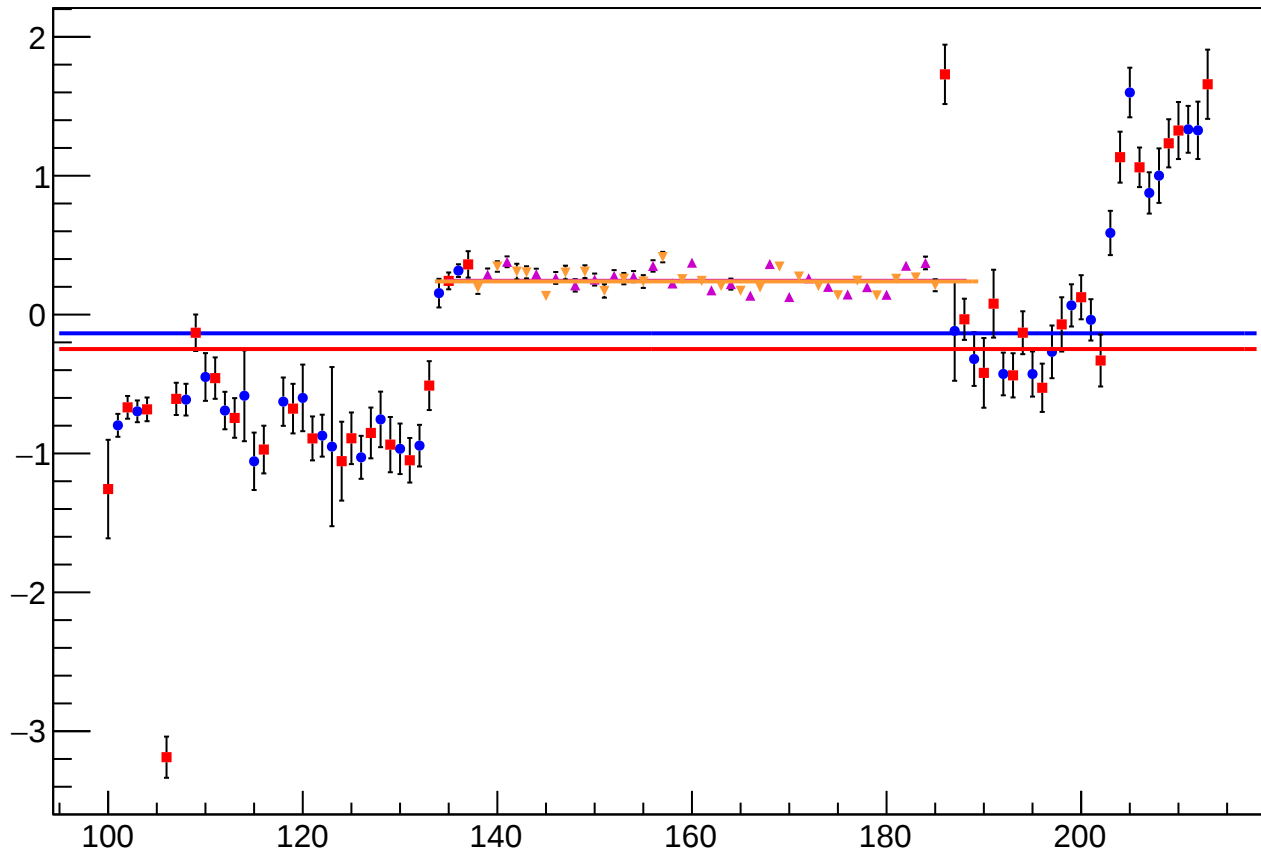


Right In: -7.313 ± 0.484 $\chi^2/\text{NDF}: 1220.4/29$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -5.749 ± 0.501 $\chi^2/\text{NDF}: 1082.8/33$
 Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$
 Right: -6.558 ± 0.348 $\chi^2/\text{NDF}: 2308.3/63$
 In: -19.168 ± 0.149 $\chi^2/\text{NDF}: 4185.3/52$
 Out: -18.648 ± 0.146 $\chi^2/\text{NDF}: 3738.7/58$

All: -18.903 ± 0.104 $\chi^2/\text{NDF}: 7930.2/111$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.024 χ^2/NDF : 740.8/29

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.248 ± 0.024 χ^2/NDF : 1126.3/33

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

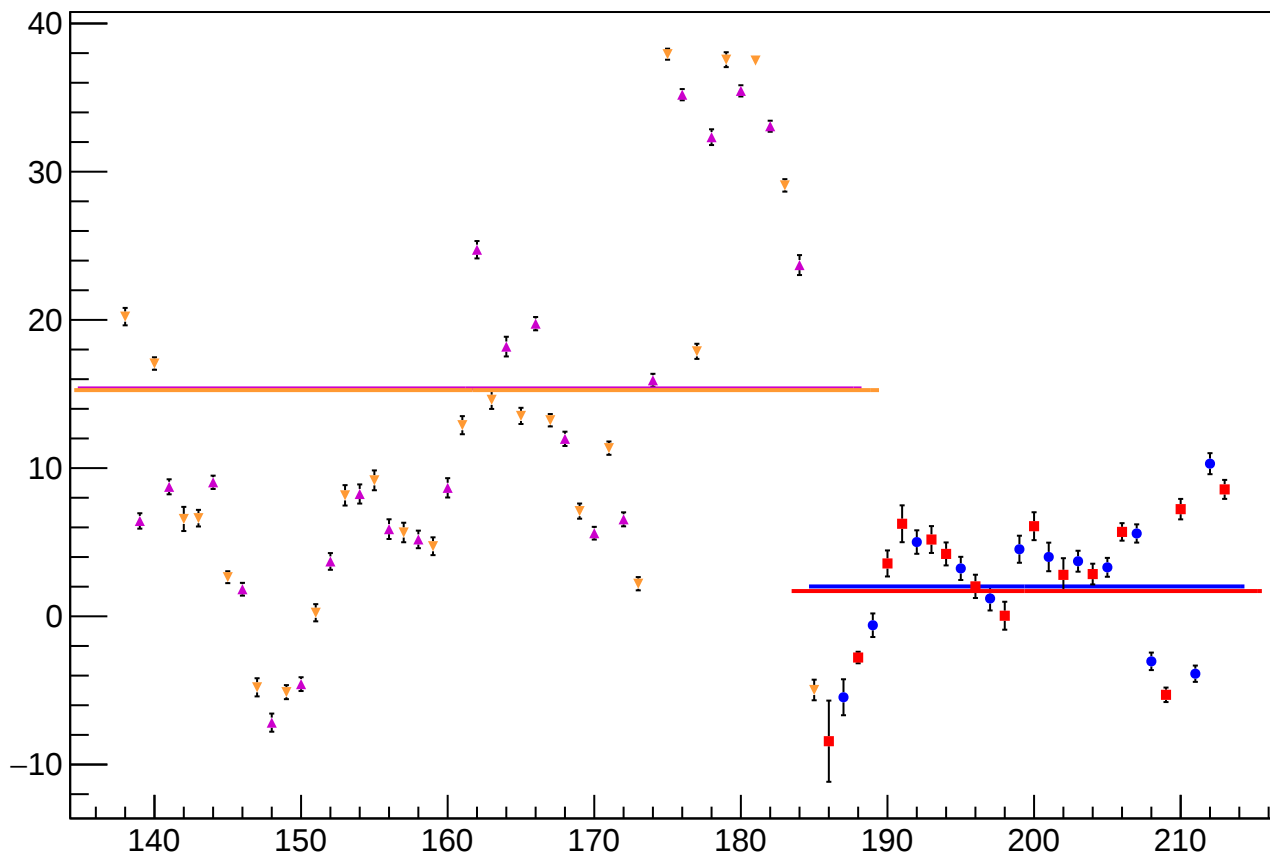
Right: -0.190 ± 0.017 χ^2/NDF : 1878.1/63

In: 0.212 ± 0.007 χ^2/NDF : 1108.0/52

Out: 0.202 ± 0.007 χ^2/NDF : 1587.5/58

All: 0.207 ± 0.005 χ^2/NDF : 2696.7/111

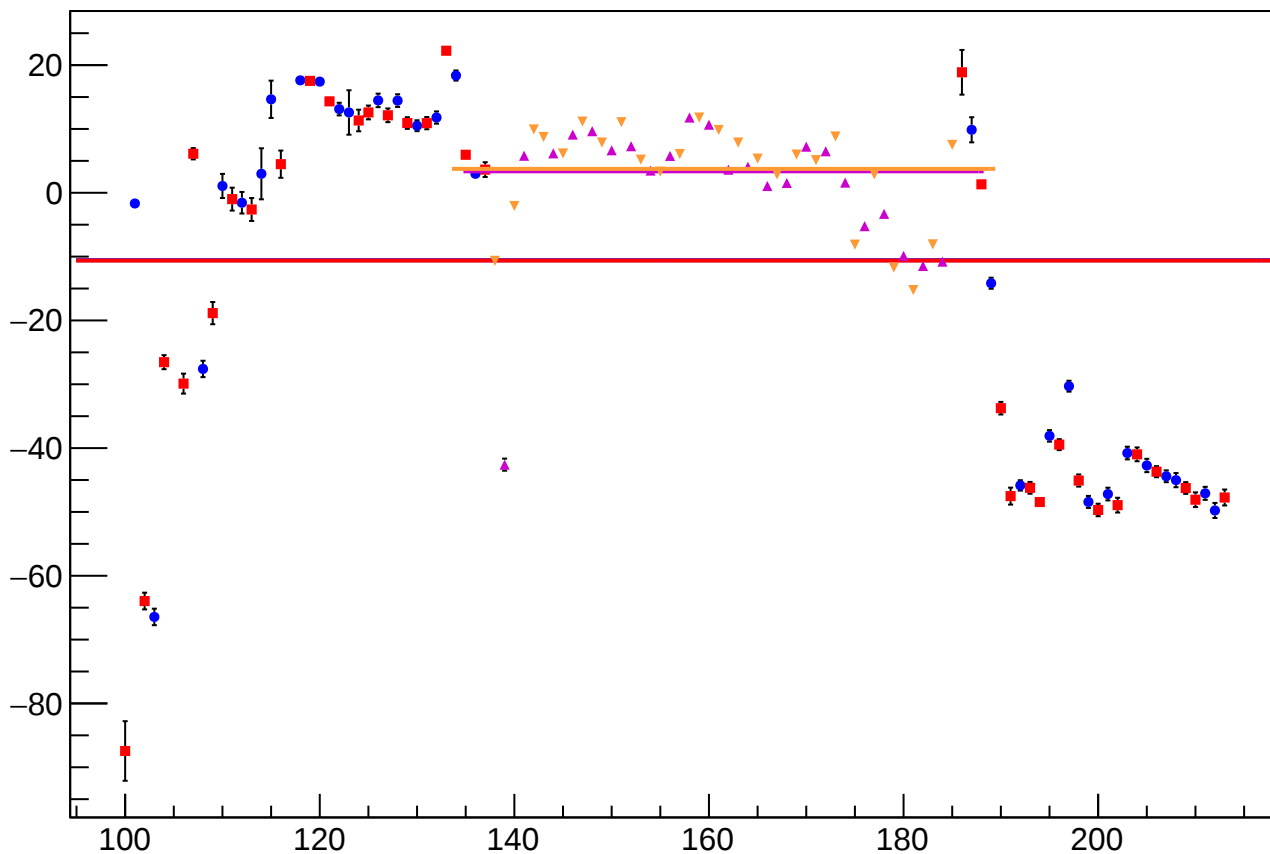
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.016 ± 0.202 $\chi^2/\text{NDF}: 446.2/12$
 Left Out: 15.263 ± 0.100 $\chi^2/\text{NDF}: 19175.2/24$
 Right Out: 1.705 ± 0.183 $\chi^2/\text{NDF}: 647.7/14$
 Left In: 15.377 ± 0.103 $\chi^2/\text{NDF}: 16268.9/22$

Left: 15.318 ± 0.072 $\chi^2/\text{NDF}: 35444.7/47$
 Right: 1.845 ± 0.136 $\chi^2/\text{NDF}: 1095.2/27$
 In: 12.625 ± 0.092 $\chi^2/\text{NDF}: 20197.9/35$
 Out: 12.121 ± 0.088 $\chi^2/\text{NDF}: 24040.9/39$
 All: 12.363 ± 0.063 $\chi^2/\text{NDF}: 44254.5/75$

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -10.566 ± 0.170 χ^2/NDF : 25326.2/29

Left Out: 3.746 ± 0.079 χ^2/NDF : 9247.4/24

Right Out: -10.614 ± 0.161 χ^2/NDF : 31202.7/33

Left In: 3.365 ± 0.081 χ^2/NDF : 8527.0/22

Left: 3.561 ± 0.057 χ^2/NDF : 17785.7/47

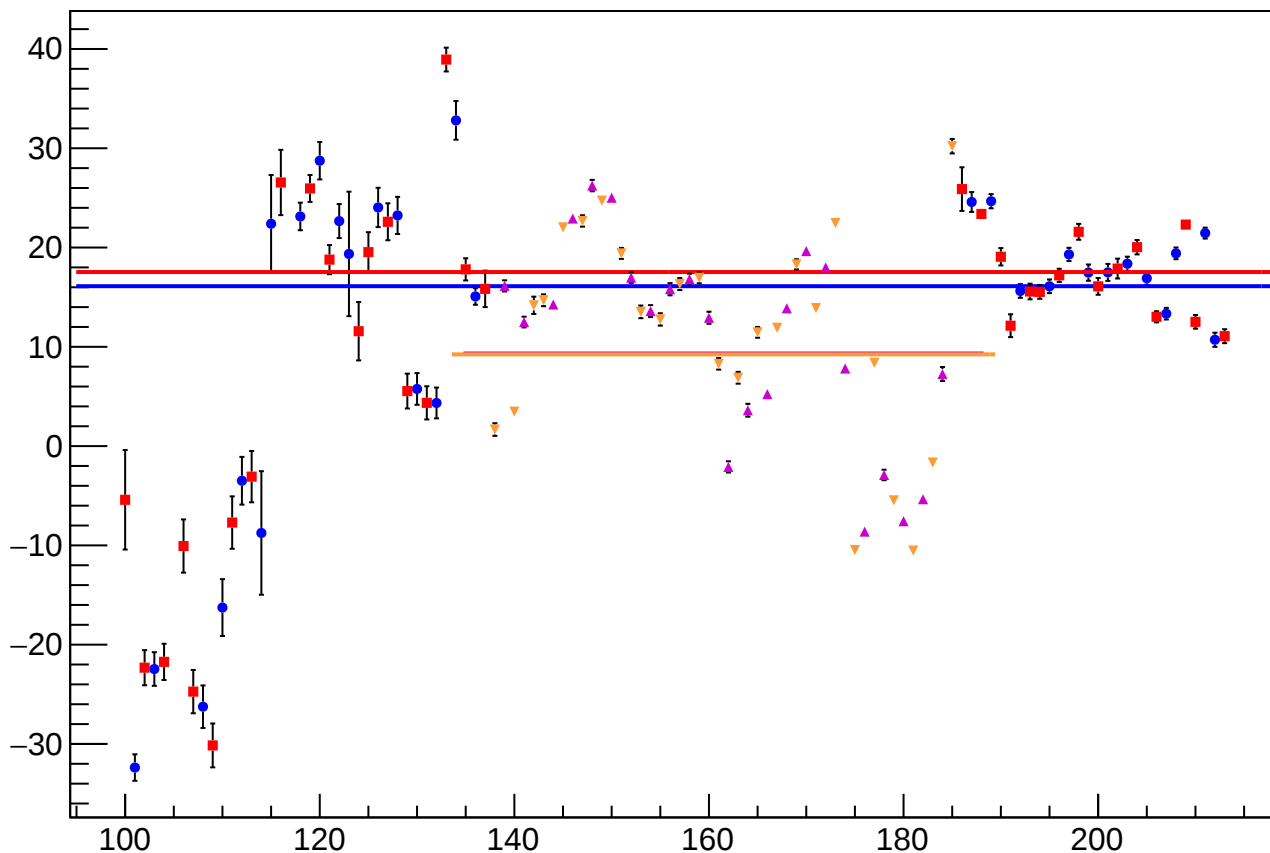
Right: -10.591 ± 0.117 χ^2/NDF : 56528.9/63

In: 0.787 ± 0.073 χ^2/NDF : 39294.6/52

Out: 0.979 ± 0.071 χ^2/NDF : 46856.0/58

All: 0.887 ± 0.051 χ^2/NDF : 86154.1/111

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 16.107 $\pm$ 0.173 χ^2 /NDF: 3193.7/29

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 17.533 $\pm$ 0.156 χ^2 /NDF: 3316.0/33

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

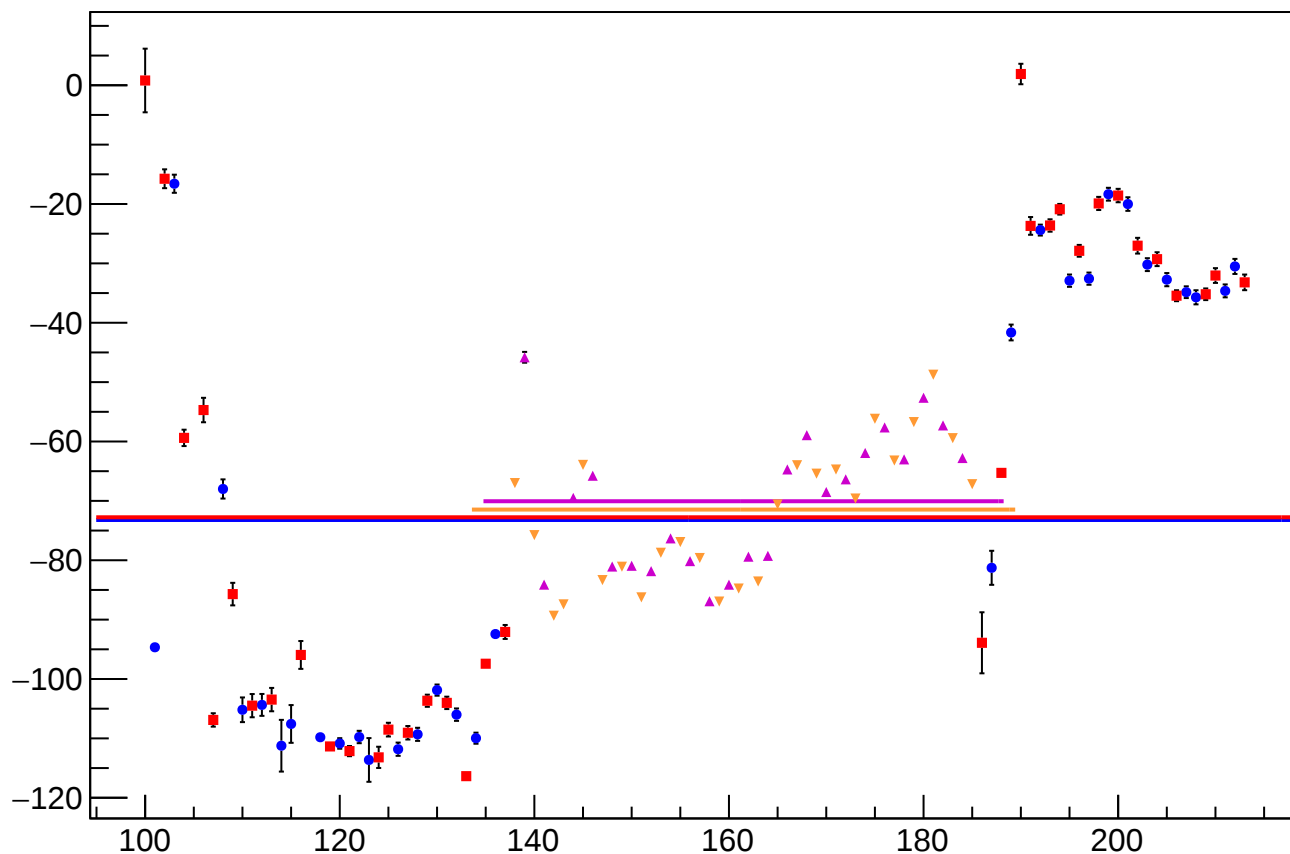
Right: 16.896 $\pm$ 0.116 χ^2 /NDF: 6547.1/63

In: 11.085 $\pm$ 0.088 χ^2 /NDF:16294.6/52

Out: 11.692 $\pm$ 0.085 χ^2 /NDF:18944.4/58

All: 11.401 $\pm$ 0.061 χ^2 /NDF: 35263.6/111

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -73.216 ± 0.196 χ^2/NDF : 35193.1/29

Left Out: -71.465 ± 0.089 χ^2/NDF : 16409.7/24

Right Out: -72.764 ± 0.188 χ^2/NDF : 43434.1/33

Left In: -70.061 ± 0.092 χ^2/NDF : 13058.5/22

Left: -70.782 ± 0.064 χ^2/NDF : 29588.5/47

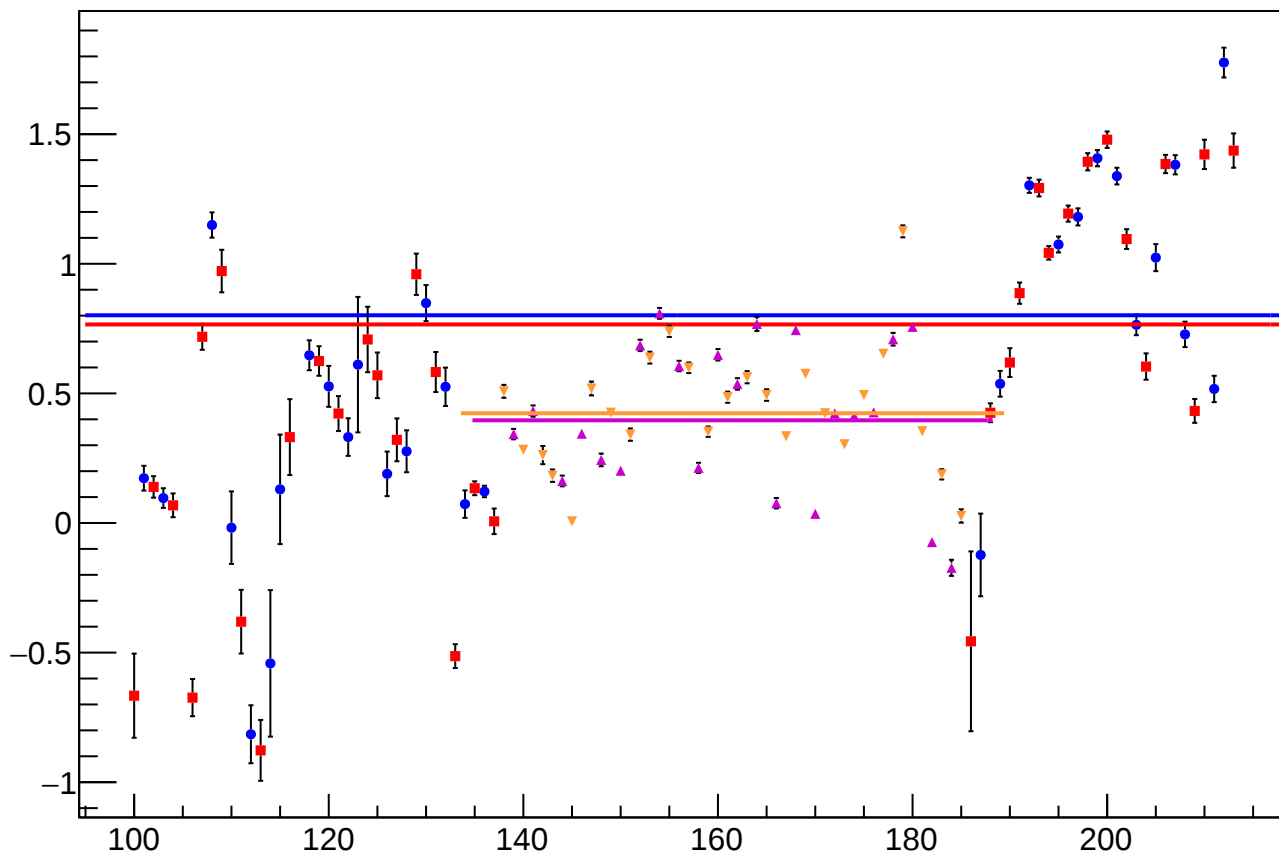
Right: -72.981 ± 0.136 χ^2/NDF : 78629.9/63

In: -70.629 ± 0.083 χ^2/NDF : 48464.5/52

Out: -71.704 ± 0.081 χ^2/NDF : 59882.6/58

All: -71.182 ± 0.058 χ^2/NDF : 108433.3/111

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.801 ± 0.008 χ^2/NDF : 3957.2/29

Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24

Right Out: 0.766 ± 0.008 χ^2/NDF : 5113.1/33

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

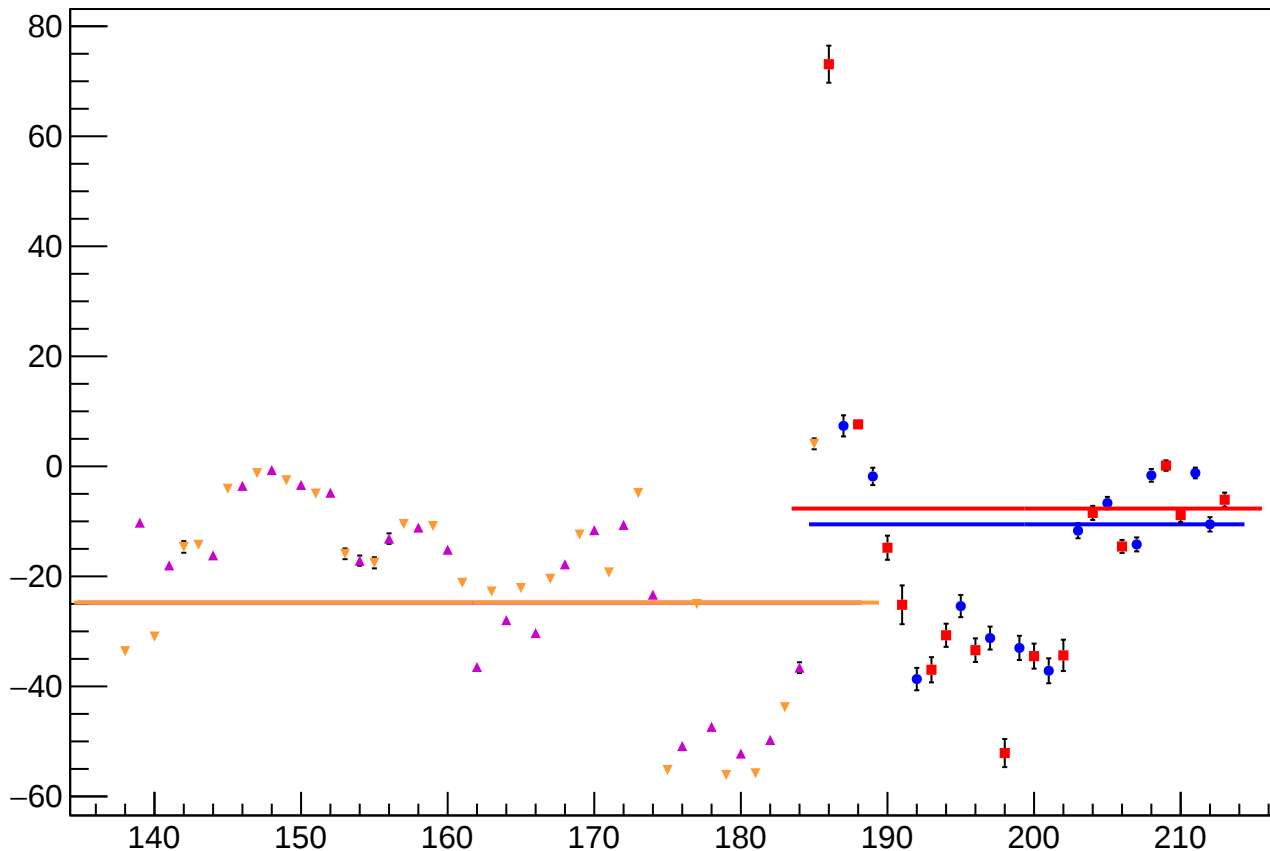
Right: 0.783 ± 0.006 χ^2/NDF : 9079.5/63

In: 0.475 ± 0.004 χ^2/NDF : 9847.0/52

Out: 0.494 ± 0.004 χ^2/NDF : 9435.4/58

All: 0.485 ± 0.003 χ^2/NDF : 19295.8/111

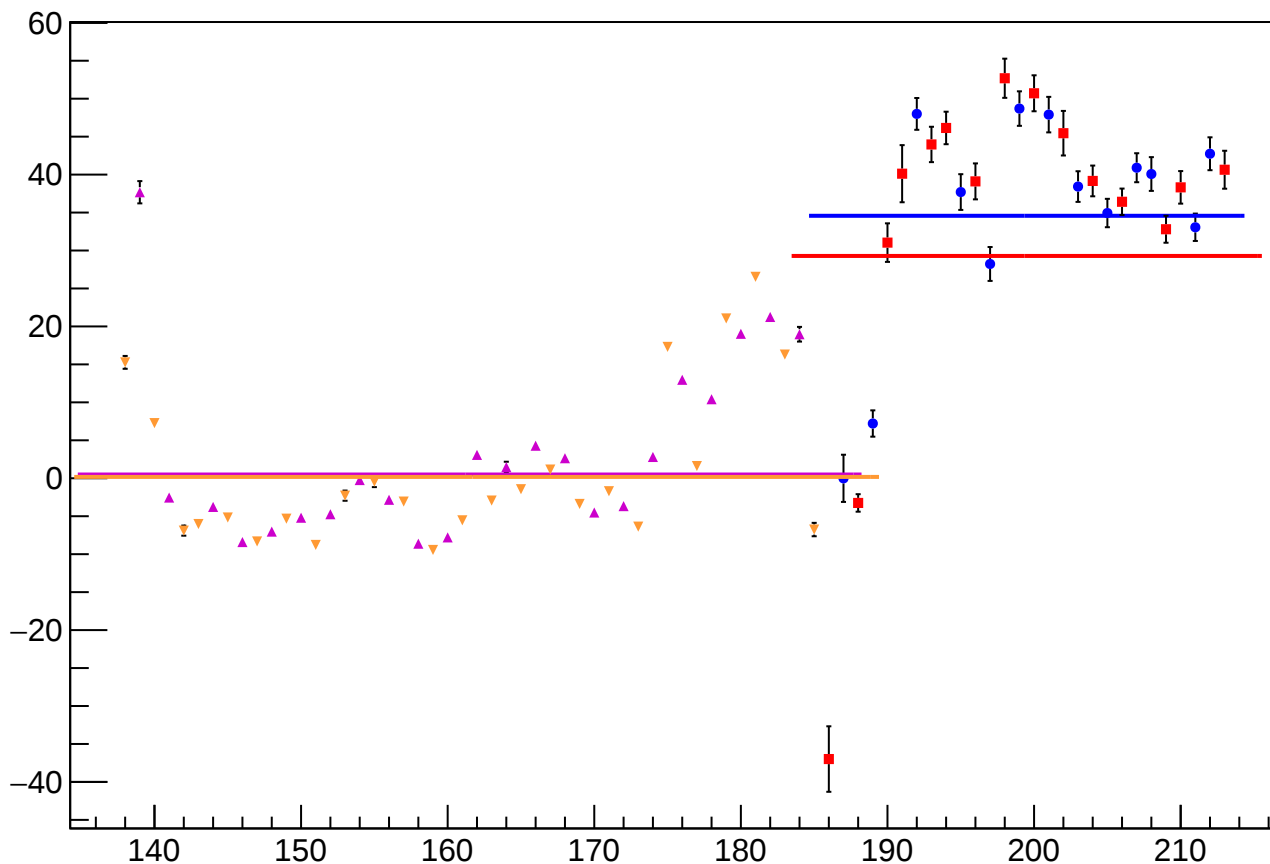
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.541 ± 0.405 χ^2/NDF : 874.2/12
 Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24
 Right Out: -7.675 ± 0.387 χ^2/NDF : 2037.5/14
 Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47
 Right: -9.044 ± 0.280 χ^2/NDF : 2938.0/27
 In: -23.199 ± 0.135 χ^2/NDF : 16782.2/35
 Out: -22.804 ± 0.131 χ^2/NDF : 22084.7/39
 All: -22.996 ± 0.094 χ^2/NDF : 38871.3/75

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 34.575+/-0.582 χ^2/NDF : 530.9/12

Left Out: 0.177+/-0.109 χ^2/NDF : 8295.6/24

Right Out: 29.286+/-0.548 χ^2/NDF : 1438.0/14

Left In: 0.493+/-0.112 χ^2/NDF : 6555.4/22

Left: 0.330+/-0.078 χ^2/NDF : 14855.0/47

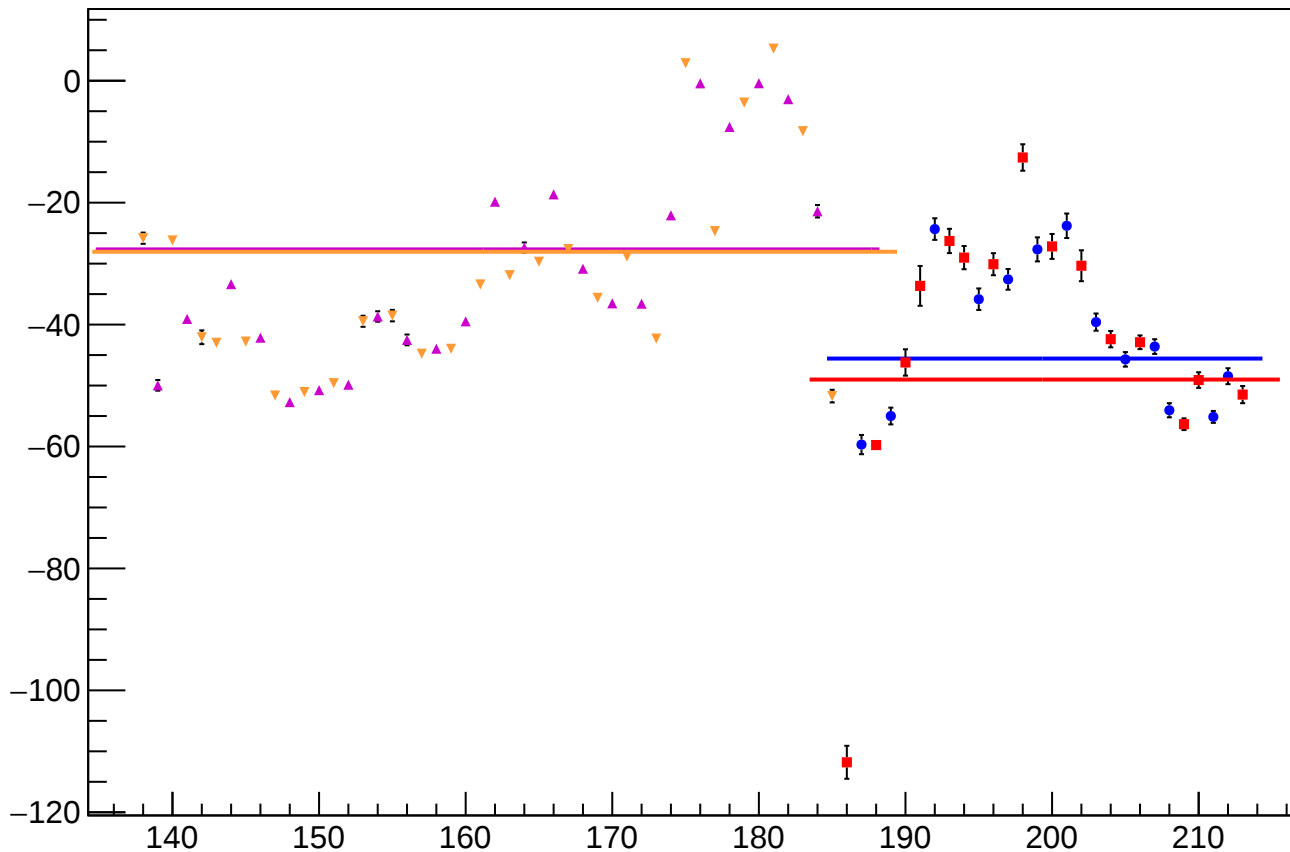
Right: 31.772+/-0.399 χ^2/NDF : 2012.7/27

In: 1.712+/-0.110 χ^2/NDF : 10391.2/35

Out: 1.275+/-0.106 χ^2/NDF : 12445.9/39

All: 1.486+/-0.077 χ^2/NDF : 22845.2/75

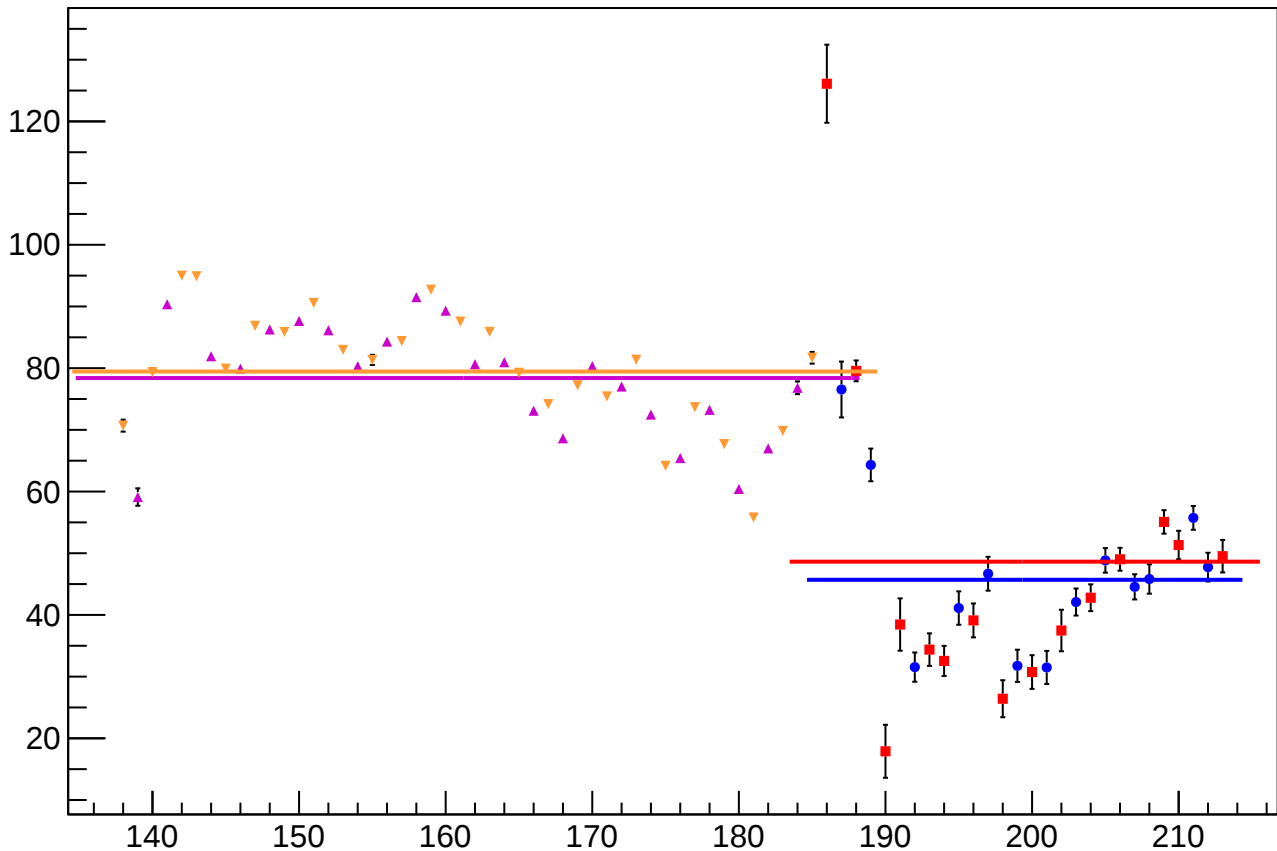
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.574 $\pm$ 0.387 χ^2 /NDF: 734.7/12
 Left Out: -28.050 $\pm$ 0.140 χ^2 /NDF:17144.5/24
 Right Out: -49.016 $\pm$ 0.358 χ^2 /NDF: 1752.2/14
 Left In: -27.666 $\pm$ 0.142 χ^2 /NDF:15003.2/22

Left: -27.862 $\pm$ 0.100 χ^2 /NDF: 32151.3/47
 Right: -47.428 $\pm$ 0.263 χ^2 /NDF: 2529.6/27
 In: -29.806 $\pm$ 0.134 χ^2 /NDF:17626.1/35
 Out: -30.831 $\pm$ 0.130 χ^2 /NDF:21876.4/39
 All: -30.331 $\pm$ 0.093 χ^2 /NDF: 39532.6/75

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.694 $\pm$ 0.666 χ^2 /NDF: 224.3/12

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 48.632 $\pm$ 0.649 χ^2 /NDF: 756.9/14

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

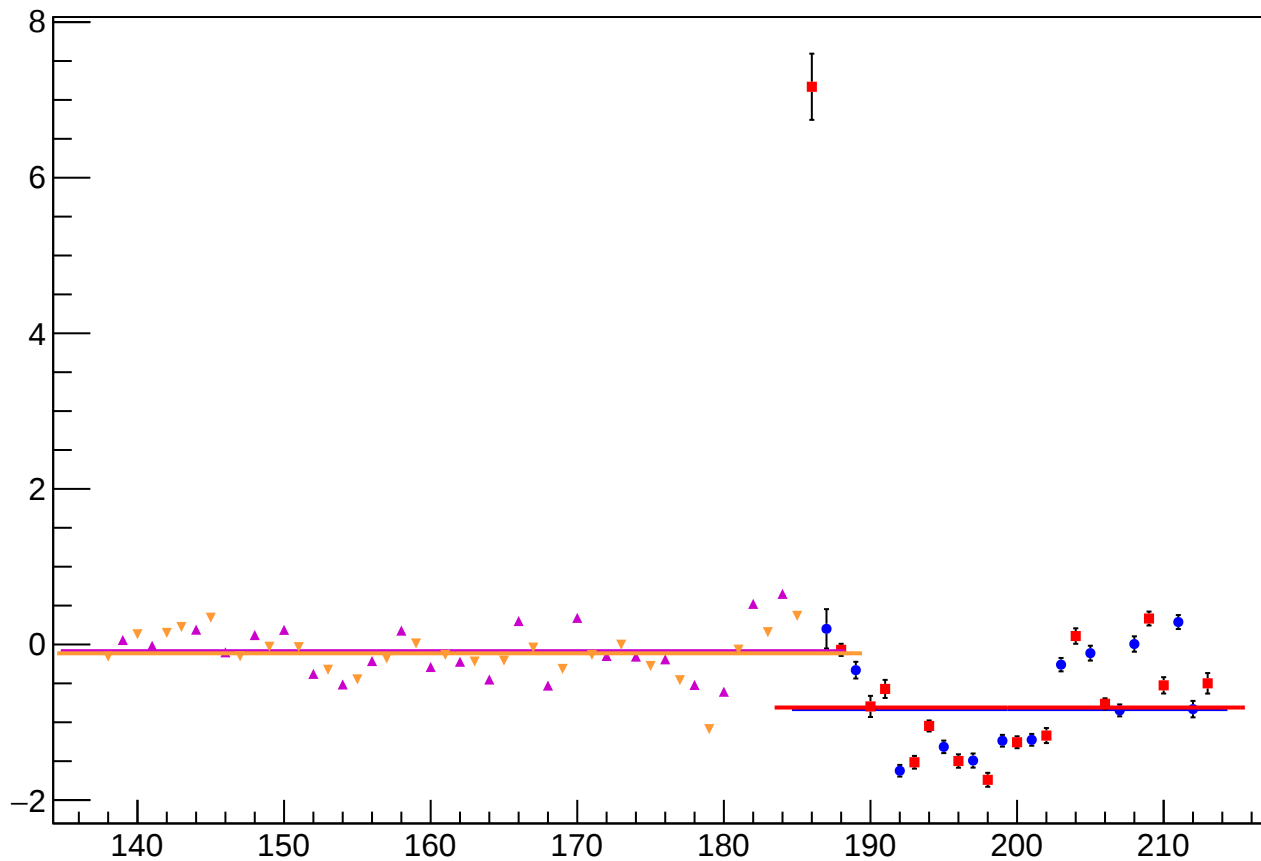
Right: 47.200 $\pm$ 0.465 χ^2 /NDF: 991.2/27

In: 77.253 $\pm$ 0.125 χ^2 /NDF: 7258.9/35

Out: 78.384 $\pm$ 0.121 χ^2 /NDF: 9010.6/39

All: 77.835 $\pm$ 0.087 χ^2 /NDF: 16311.9/75

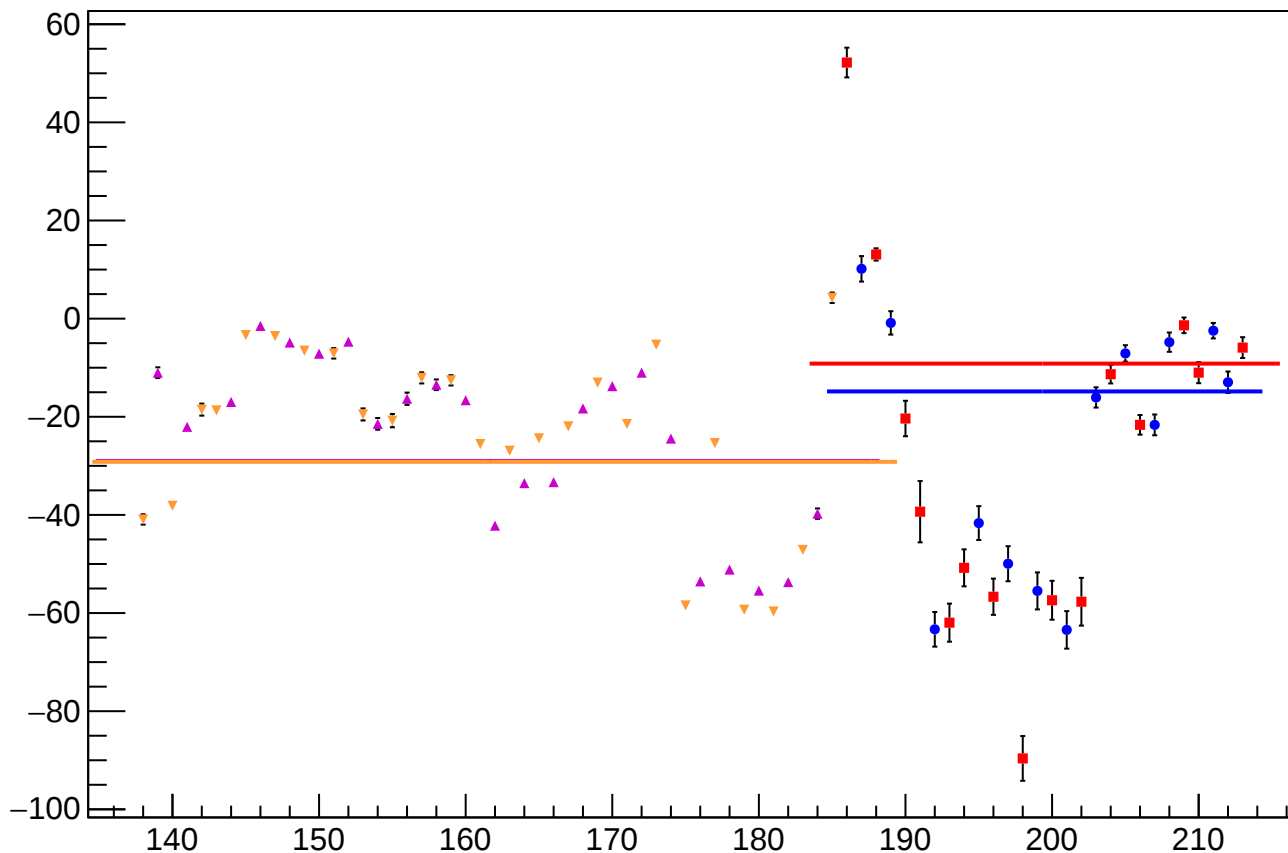
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.830 ± 0.025 χ^2/NDF : 623.1/12
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.810 ± 0.024 χ^2/NDF : 1012.5/14
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.820 ± 0.017 χ^2/NDF : 1636.0/27
 In: -0.125 ± 0.006 χ^2/NDF : 4614.2/35
 Out: -0.151 ± 0.006 χ^2/NDF : 4123.1/39
 All: -0.138 ± 0.004 χ^2/NDF : 8747.9/75

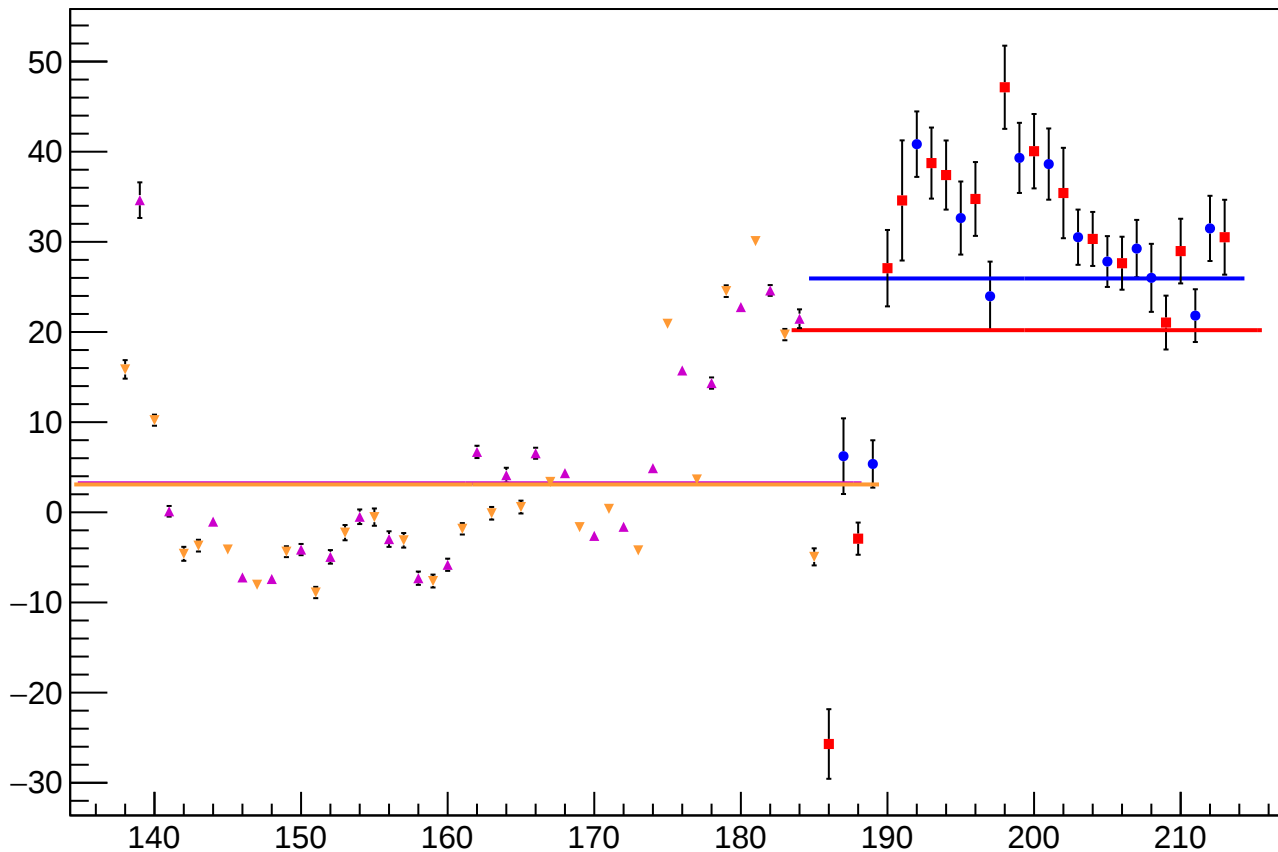
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.836 ± 0.647 $\chi^2/\text{NDF}: 870.5/12$
 Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$
 Right Out: -9.167 ± 0.623 $\chi^2/\text{NDF}: 1857.3/14$
 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: -11.894 ± 0.449 $\chi^2/\text{NDF}: 2767.7/27$
 In: -28.188 ± 0.155 $\chi^2/\text{NDF}: 14739.2/35$
 Out: -27.988 ± 0.152 $\chi^2/\text{NDF}: 19740.3/39$
 All: -28.086 ± 0.109 $\chi^2/\text{NDF}: 34480.3/75$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.939 $\pm$ 0.940 χ^2 /NDF: 133.5/12

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: 20.203 $\pm$ 0.887 χ^2 /NDF: 467.9/14

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

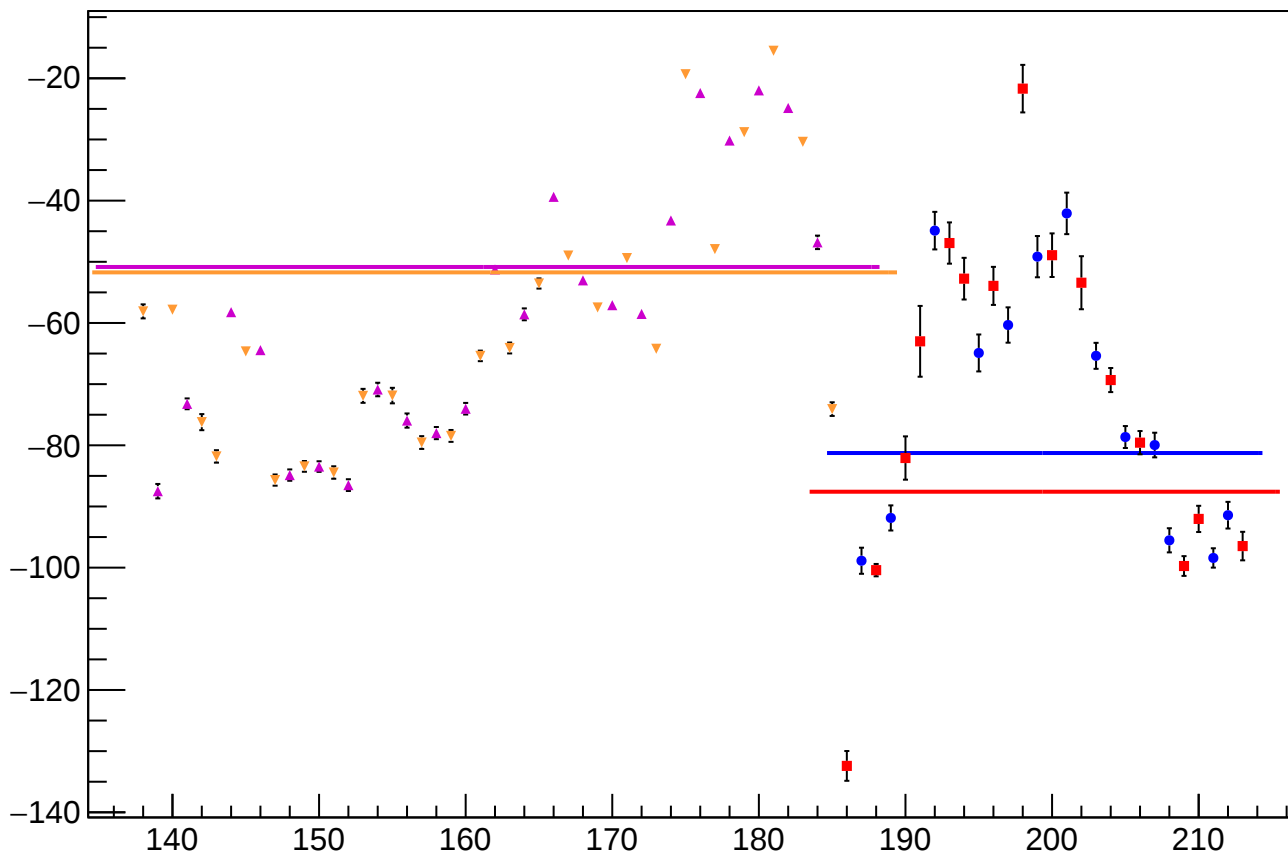
Right: 22.903 $\pm$ 0.645 χ^2 /NDF: 621.0/27

In: 3.628 $\pm$ 0.126 χ^2 /NDF:6944.4/35

Out: 3.421 $\pm$ 0.123 χ^2 /NDF:8917.1/39

All: 3.522 $\pm$ 0.088 χ^2 /NDF: 15863.0/75

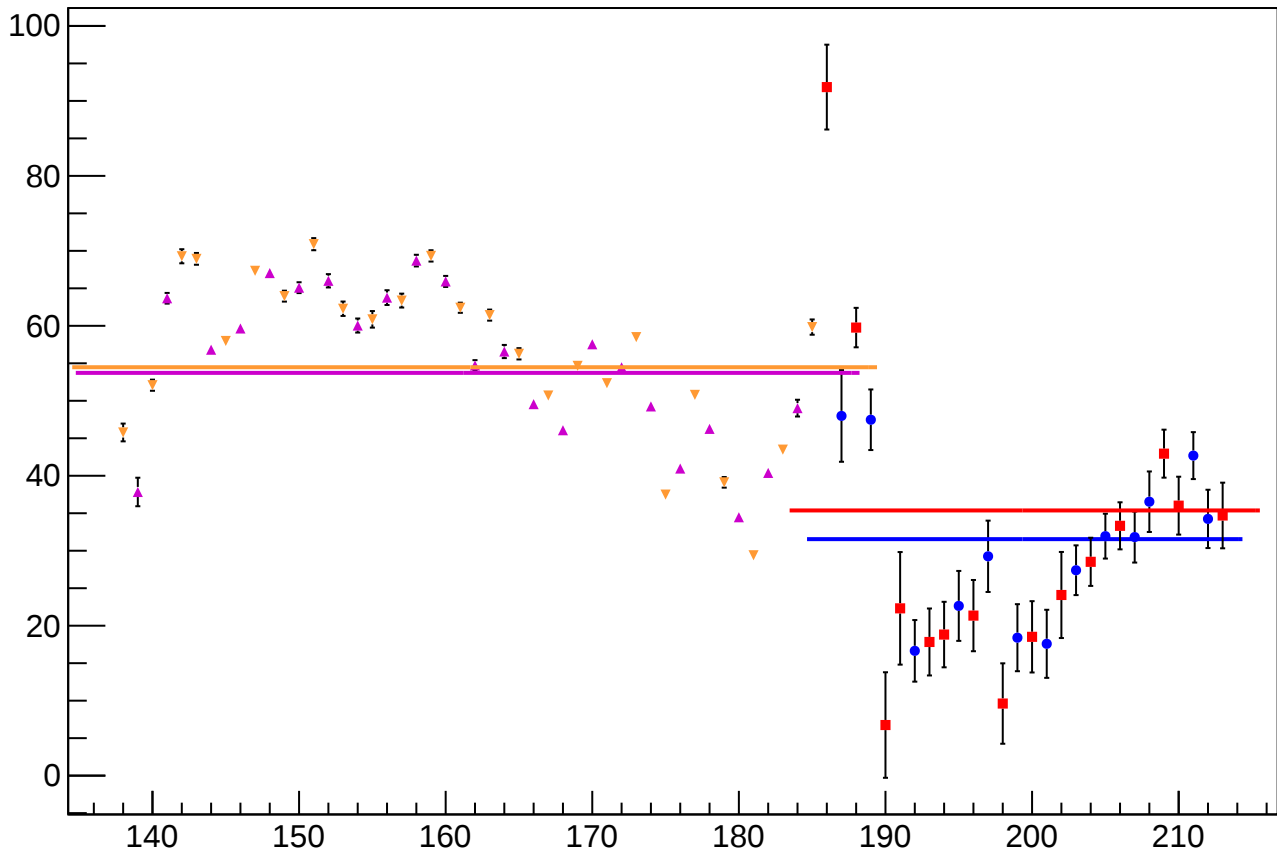
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.261 ± 0.619 χ^2/NDF : 790.7/12
 Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24
 Right Out: -87.588 ± 0.572 χ^2/NDF : 1533.6/14
 Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47
 Right: -84.670 ± 0.420 χ^2/NDF : 2380.7/27
 In: -52.753 ± 0.155 χ^2/NDF : 20327.5/35
 Out: -54.265 ± 0.152 χ^2/NDF : 24718.9/39
 All: -53.523 ± 0.109 χ^2/NDF : 45094.8/75

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.545 $\pm$ 1.082 χ^2 /NDF: 74.1/12

Left Out: 54.476 $\pm$ 0.140 χ^2 /NDF:6266.9/24

Right Out: 35.373 $\pm$ 1.063 χ^2 /NDF: 293.7/14

Left In: 53.724 $\pm$ 0.143 χ^2 /NDF:4585.7/22

Left: 54.107 $\pm$ 0.100 χ^2 /NDF: 10866.7/47

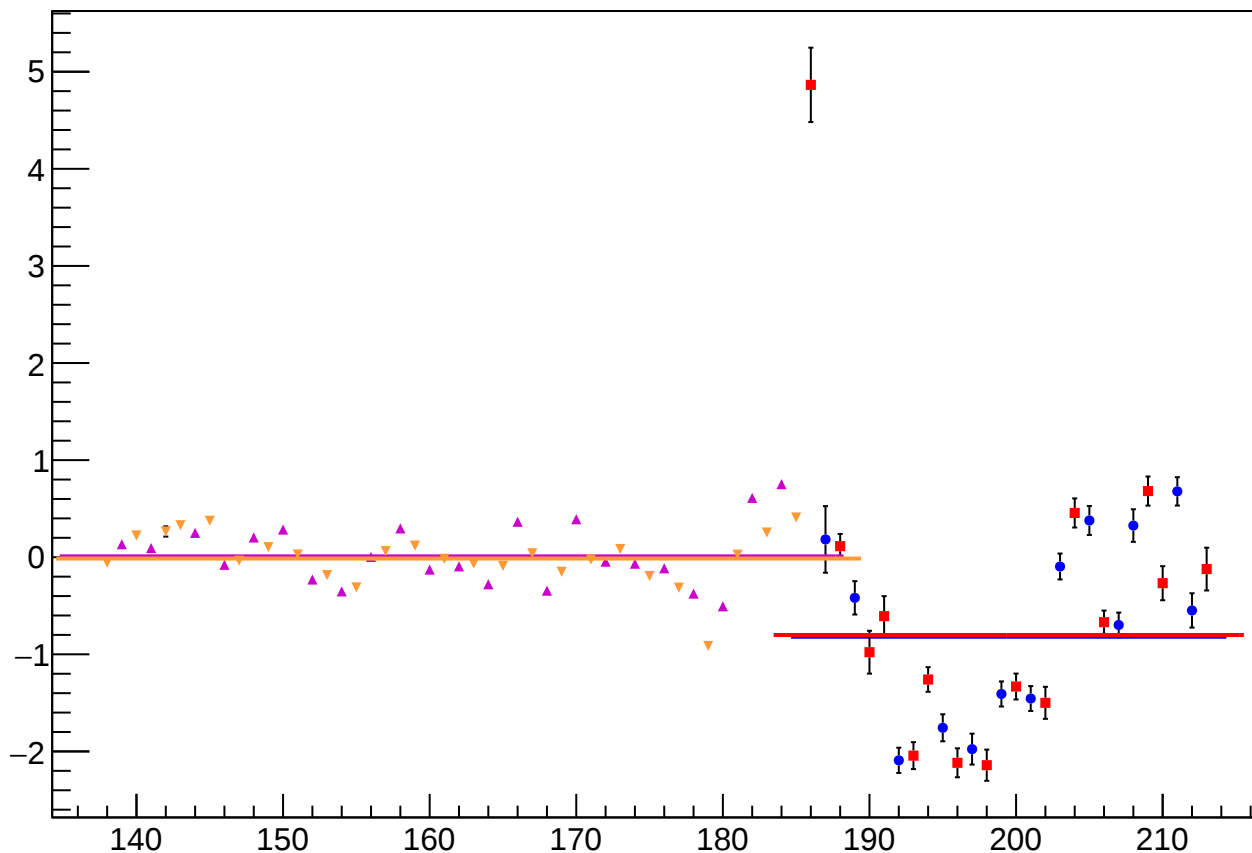
Right: 33.493 $\pm$ 0.758 χ^2 /NDF: 374.2/27

In: 53.342 $\pm$ 0.142 χ^2 /NDF:5072.9/35

Out: 54.149 $\pm$ 0.139 χ^2 /NDF:6878.0/39

All: 53.754 $\pm$ 0.099 χ^2 /NDF: 11967.4/75

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.819 ± 0.041 χ^2/NDF : 502.7/12

Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24

Right Out: -0.801 ± 0.040 χ^2/NDF : 735.6/14

Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47

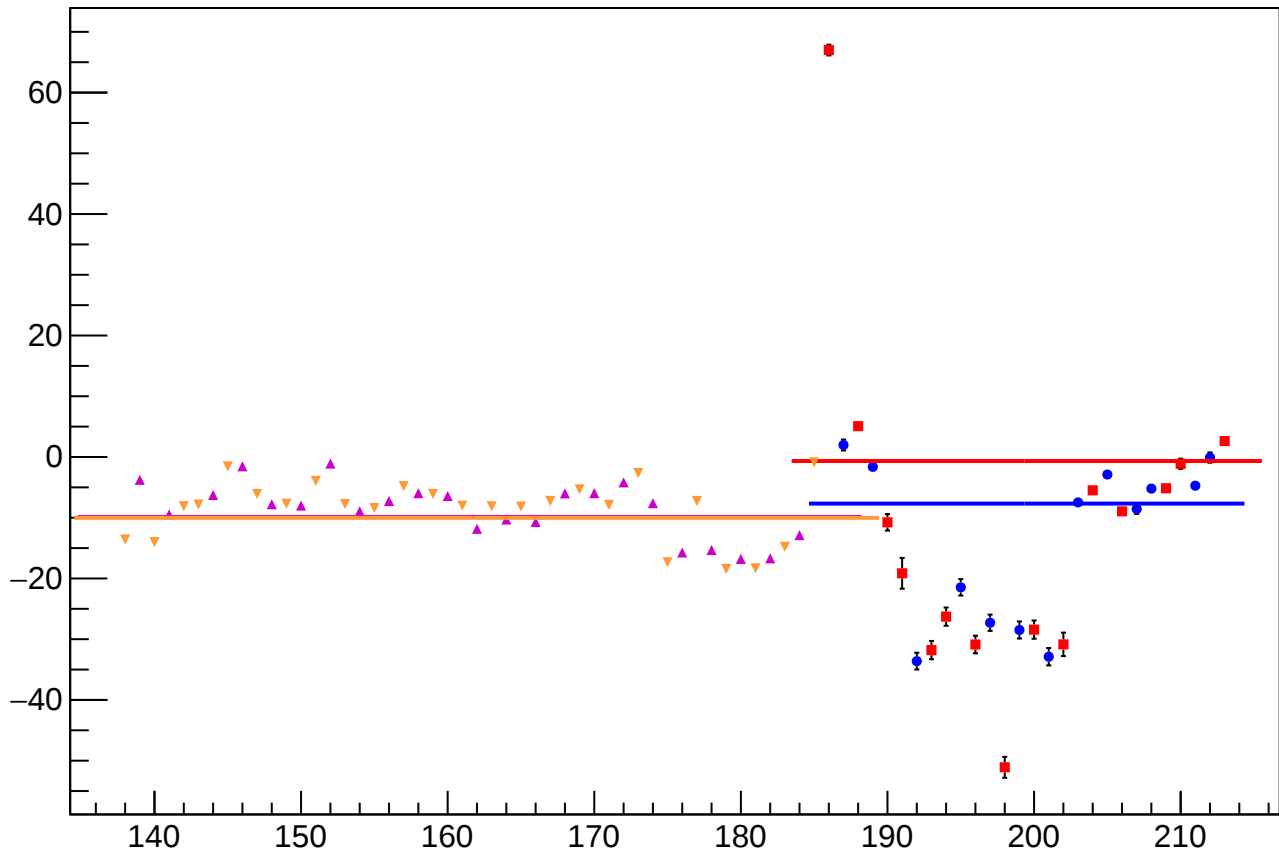
Right: -0.810 ± 0.029 χ^2/NDF : 1238.4/27

In: -0.011 ± 0.006 χ^2/NDF : 3117.9/35

Out: -0.033 ± 0.006 χ^2/NDF : 2762.9/39

All: -0.023 ± 0.005 χ^2/NDF : 5886.6/75

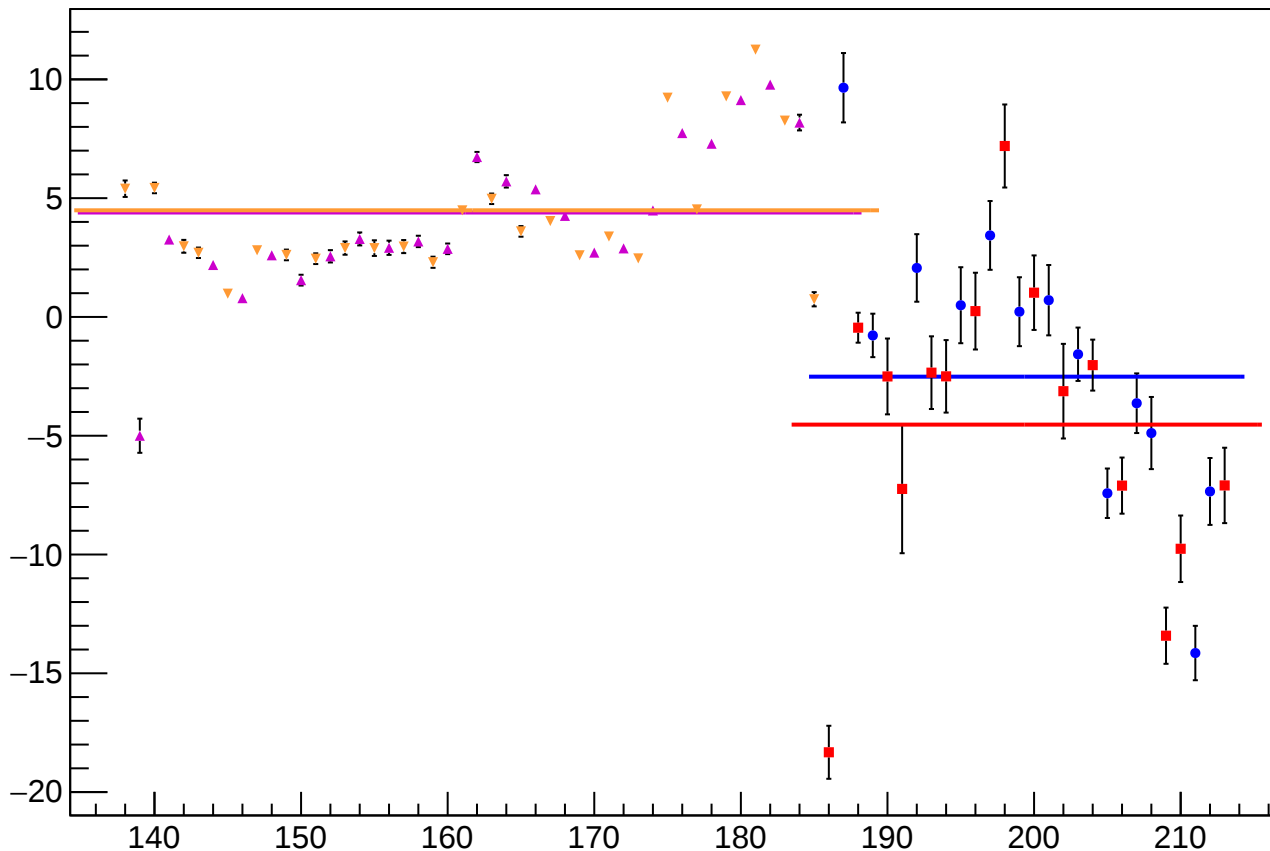
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.672 ± 0.244 $\chi^2/\text{NDF}: 1538.6/12$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.662 ± 0.232 $\chi^2/\text{NDF}: 8933.3/14$
 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: -3.984 ± 0.168 $\chi^2/\text{NDF}: 10905.4/27$
 In: -9.772 ± 0.050 $\chi^2/\text{NDF}: 10961.2/35$
 Out: -9.590 ± 0.049 $\chi^2/\text{NDF}: 23041.1/39$
 All: -9.680 ± 0.035 $\chi^2/\text{NDF}: 34009.0/75$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.514 ± 0.353 χ^2/NDF : 253.2/12

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -4.532 ± 0.328 χ^2/NDF : 350.9/14

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

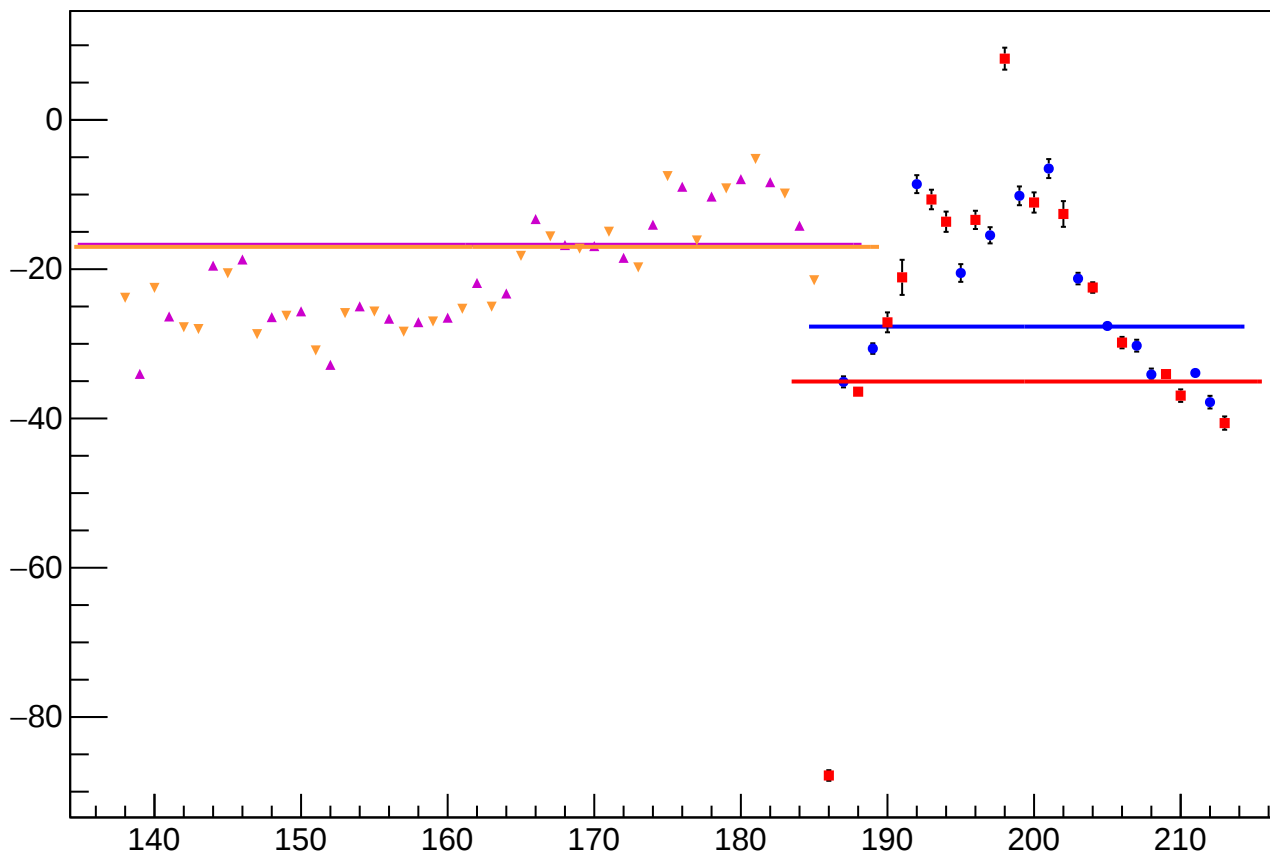
Right: -3.597 ± 0.241 χ^2/NDF : 621.6/27

In: 4.303 ± 0.041 χ^2/NDF : 4860.8/35

Out: 4.352 ± 0.040 χ^2/NDF : 5926.9/39

All: 4.328 ± 0.029 χ^2/NDF : 10788.4/75

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -27.691 ± 0.233 $\chi^2/\text{NDF}: 1391.1/12$

Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$

Right Out: -35.049 ± 0.211 $\chi^2/\text{NDF}: 8266.8/14$

Left In: -16.732 ± 0.052 $\chi^2/\text{NDF}: 18777.2/22$

Left: -16.871 ± 0.036 $\chi^2/\text{NDF}: 40886.5/47$

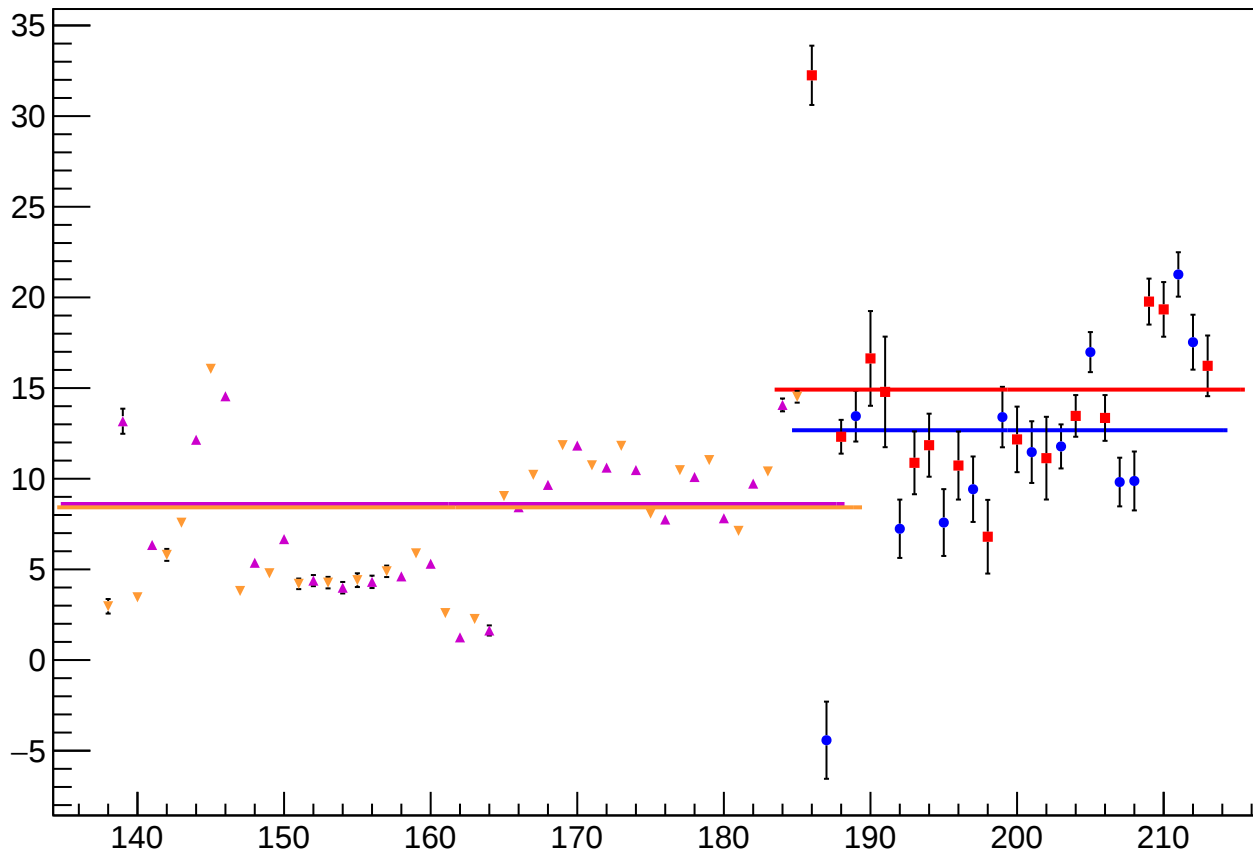
Right: -31.733 ± 0.156 $\chi^2/\text{NDF}: 10206.0/27$

In: -17.243 ± 0.050 $\chi^2/\text{NDF}: 22278.3/35$

Out: -18.007 ± 0.050 $\chi^2/\text{NDF}: 37267.8/39$

All: -17.630 ± 0.035 $\chi^2/\text{NDF}: 59662.9/75$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.674 $\pm$ 0.410 χ^2 /NDF: 170.6/12

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF: 6470.1/24

Right Out: 14.916 $\pm$ 0.399 χ^2 /NDF: 182.1/14

Left In: 8.606 $\pm$ 0.046 χ^2 /NDF: 5504.2/22

Left: 8.513 $\pm$ 0.032 χ^2 /NDF: 11982.4/47

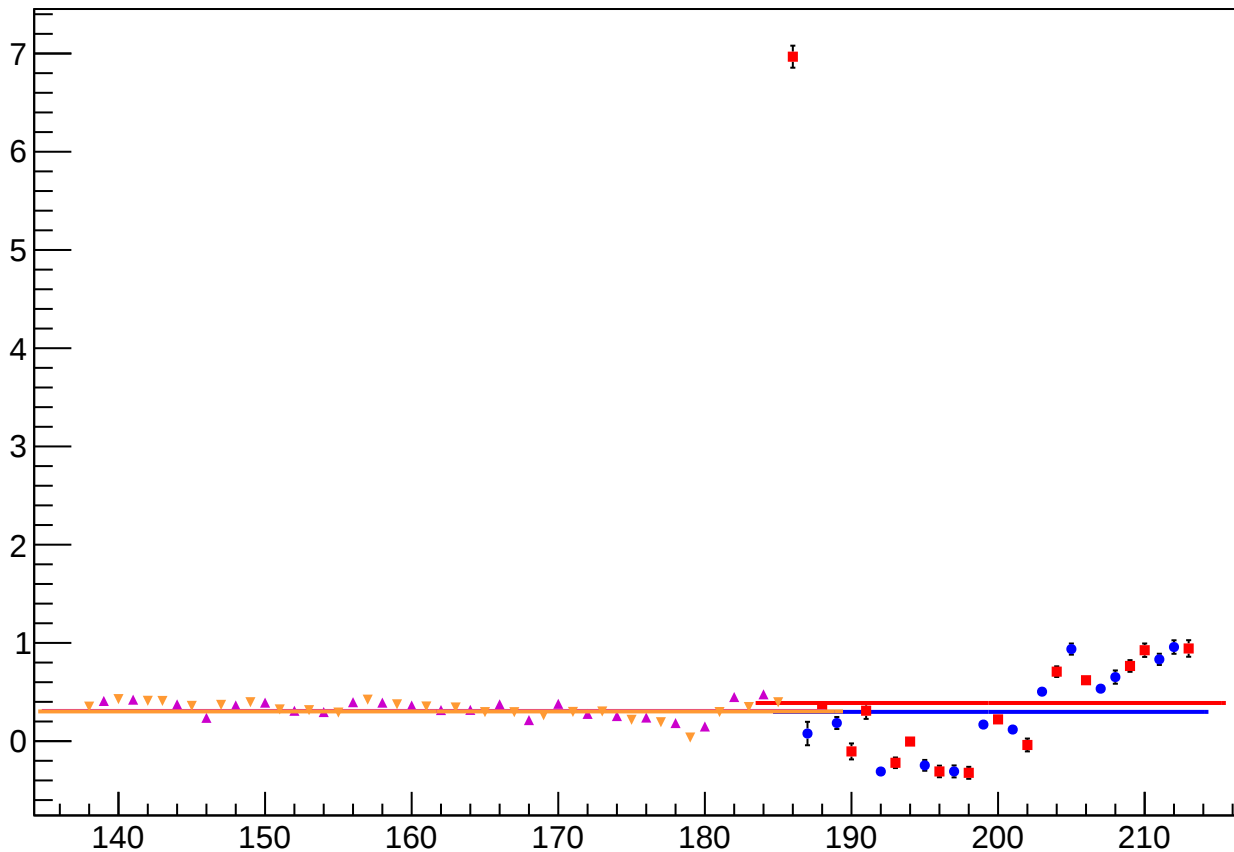
Right: 13.824 $\pm$ 0.286 χ^2 /NDF: 368.1/27

In: 8.658 $\pm$ 0.046 χ^2 /NDF: 5772.1/35

Out: 8.505 $\pm$ 0.045 χ^2 /NDF: 6913.4/39

All: 8.580 $\pm$ 0.032 χ^2 /NDF: 12691.1/75

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.298 $\pm$ 0.016 χ^2 /NDF: 740.3/12

Left Out: 0.302 $\pm$ 0.002 χ^2 /NDF:1590.9/24

Right Out: 0.389 $\pm$ 0.015 χ^2 /NDF: 4198.6/14

Left In: 0.307 $\pm$ 0.002 χ^2 /NDF:1699.5/22

Left: 0.305 $\pm$ 0.001 χ^2 /NDF: 3293.0/47

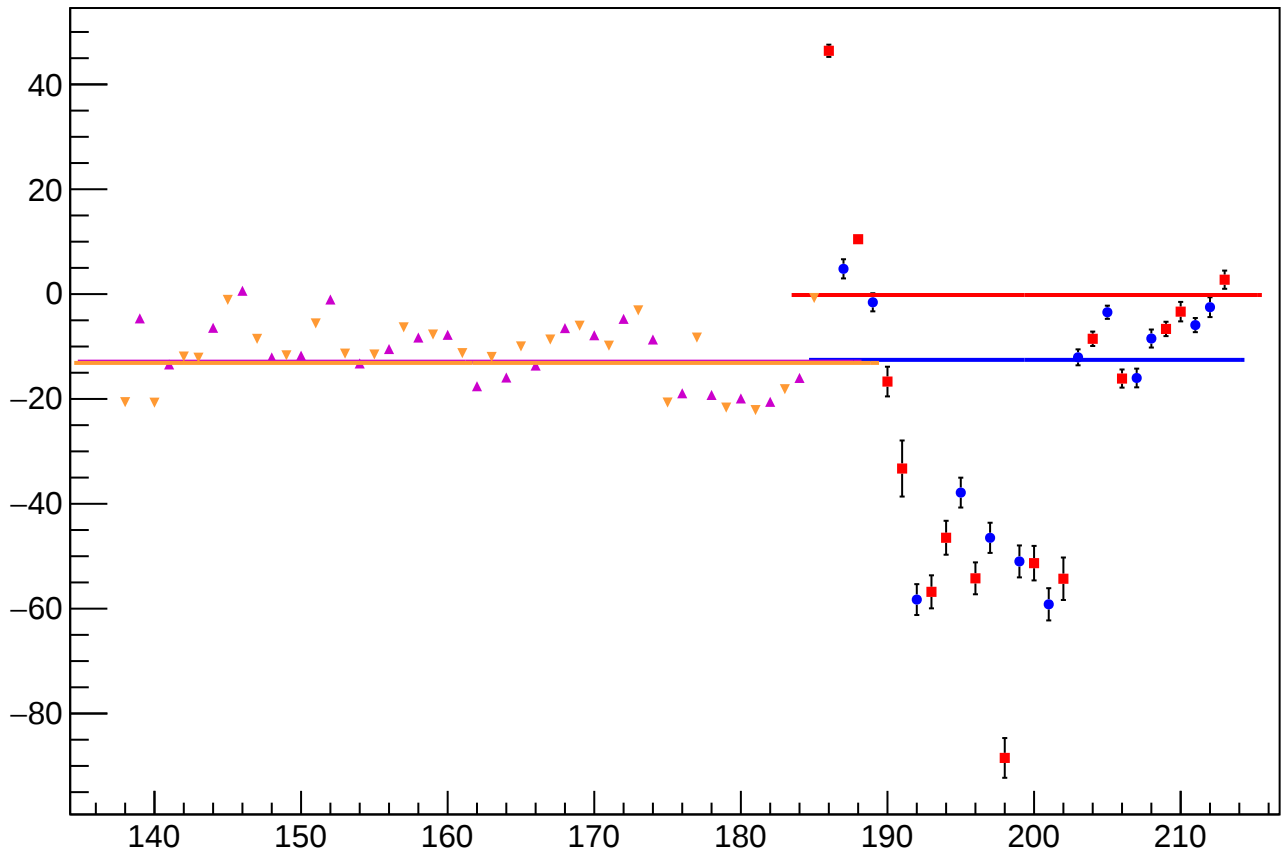
Right: 0.344 $\pm$ 0.011 χ^2 /NDF: 4955.8/27

In: 0.307 $\pm$ 0.002 χ^2 /NDF:2440.2/35

Out: 0.304 $\pm$ 0.002 χ^2 /NDF:5820.1/39

All: 0.306 $\pm$ 0.001 χ^2 /NDF: 8261.3/75

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.545 ± 0.516 $\chi^2/\text{NDF}: 1093.4/12$

Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$

Right Out: -0.172 ± 0.467 $\chi^2/\text{NDF}: 3752.4/14$

Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

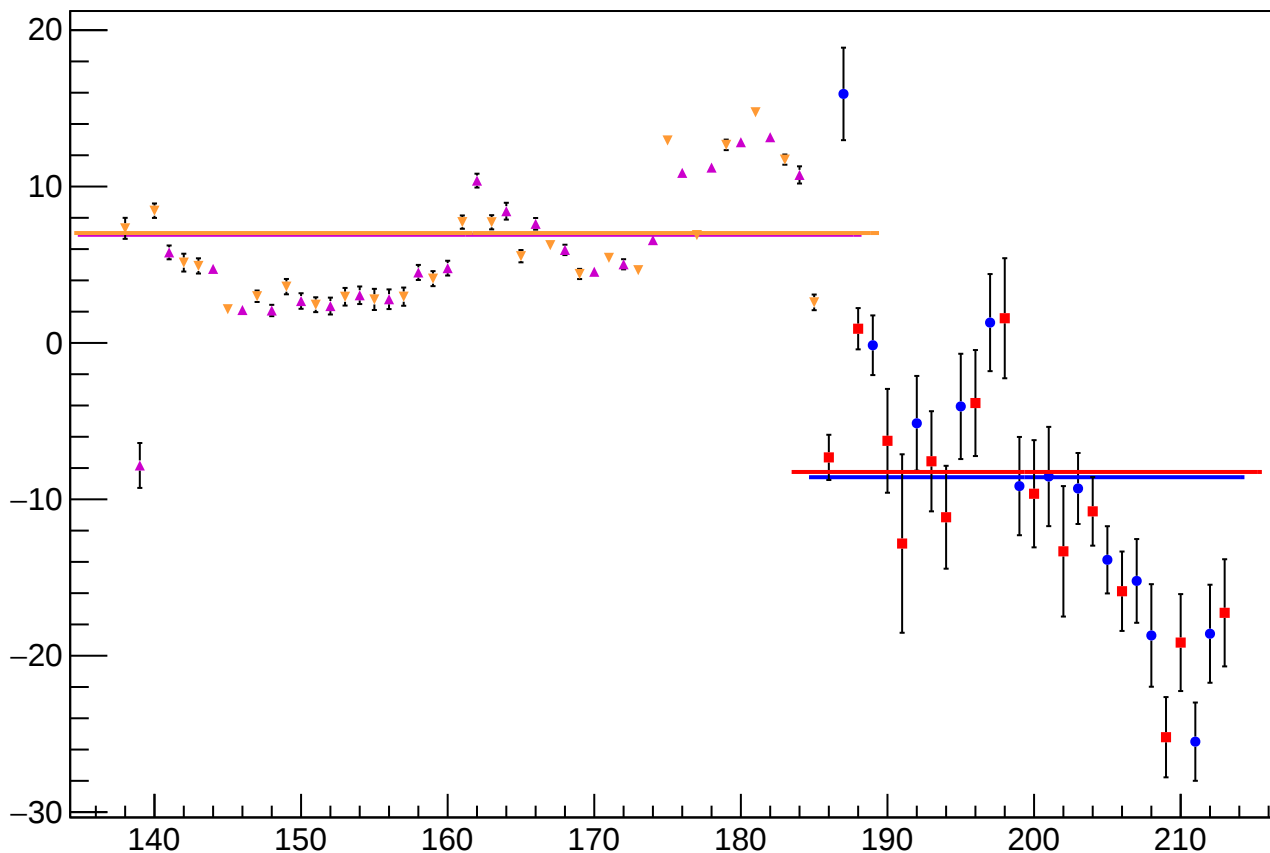
Right: -5.738 ± 0.346 $\chi^2/\text{NDF}: 5161.9/27$

In: -12.874 ± 0.094 $\chi^2/\text{NDF}: 5870.0/35$

Out: -12.624 ± 0.092 $\chi^2/\text{NDF}: 10470.3/39$

All: -12.747 ± 0.066 $\chi^2/\text{NDF}: 16343.9/75$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.586 ± 0.746 χ^2/NDF : 179.2/12

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -8.250 ± 0.650 χ^2/NDF : 133.6/14

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

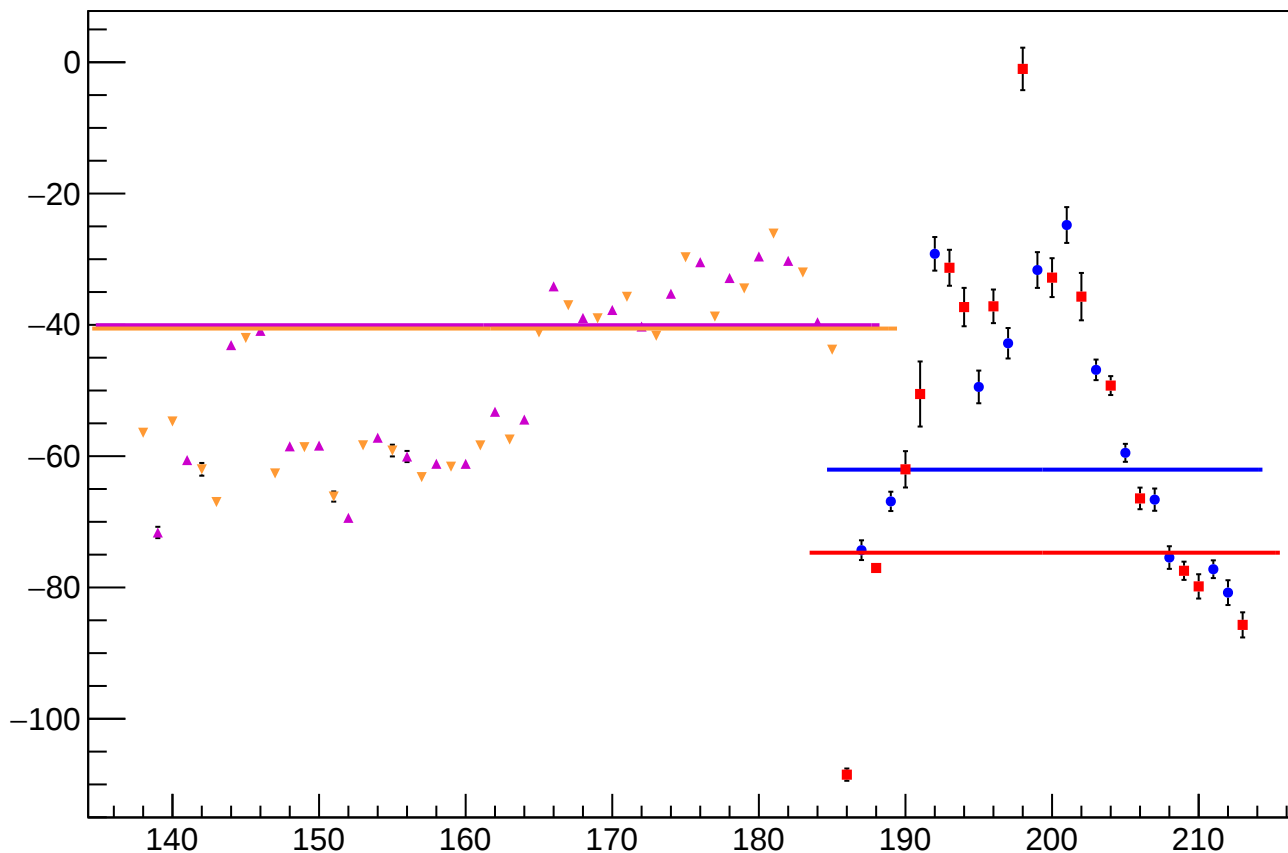
Right: -8.395 ± 0.490 χ^2/NDF : 312.9/27

In: 6.748 ± 0.077 χ^2/NDF : 3034.2/35

Out: 6.815 ± 0.077 χ^2/NDF : 3343.5/39

All: 6.782 ± 0.054 χ^2/NDF : 6378.0/75

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.051 ± 0.492 $\chi^2/\text{NDF}: 1037.2/12$

Left Out: -40.563 ± 0.095 $\chi^2/\text{NDF}: 15637.6/24$

Right Out: -74.703 ± 0.418 $\chi^2/\text{NDF}: 3207.8/14$

Left In: -40.053 ± 0.096 $\chi^2/\text{NDF}: 13927.3/22$

Left: -40.310 ± 0.067 $\chi^2/\text{NDF}: 29579.2/47$

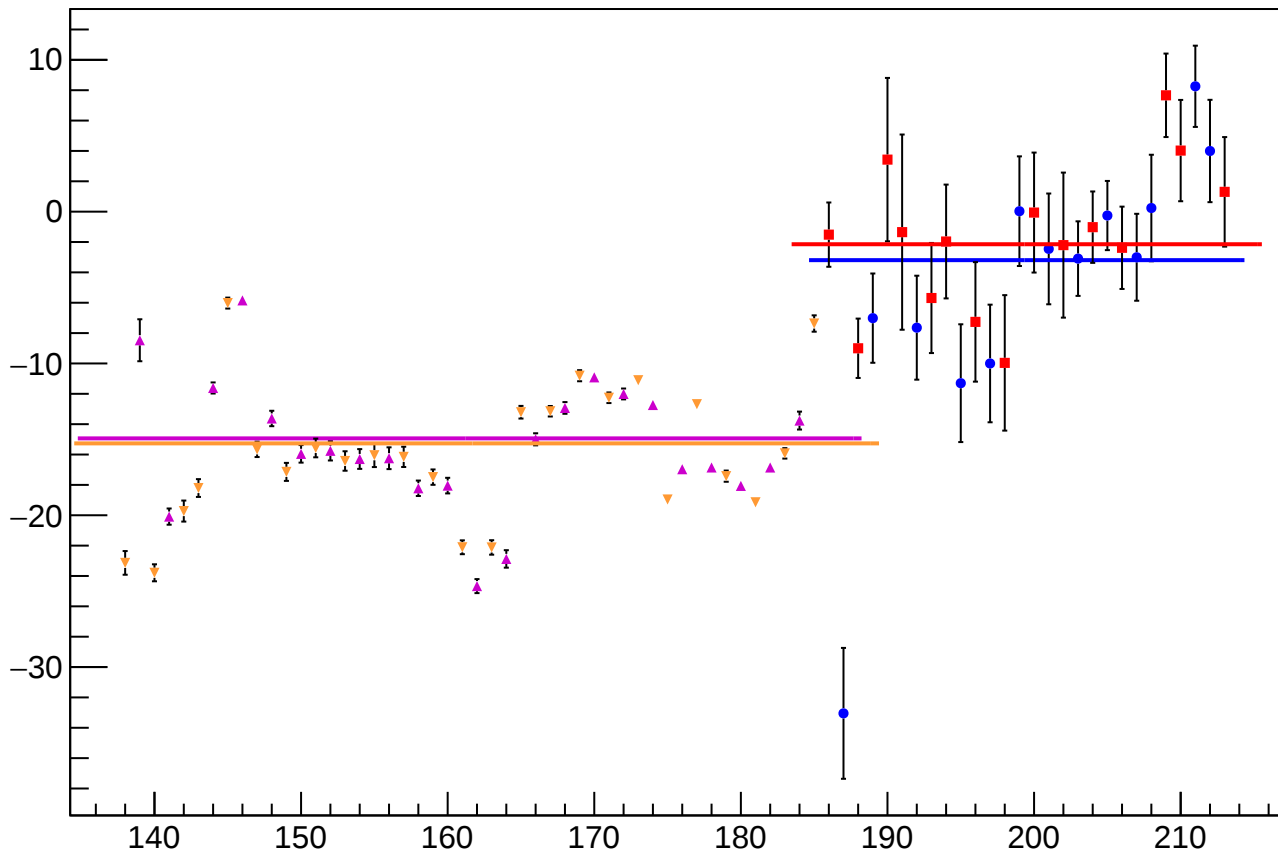
Right: -69.396 ± 0.319 $\chi^2/\text{NDF}: 4628.3/27$

In: -40.854 ± 0.094 $\chi^2/\text{NDF}: 16888.3/35$

Out: -42.227 ± 0.092 $\chi^2/\text{NDF}: 25176.2/39$

All: -41.551 ± 0.066 $\chi^2/\text{NDF}: 42173.1/75$

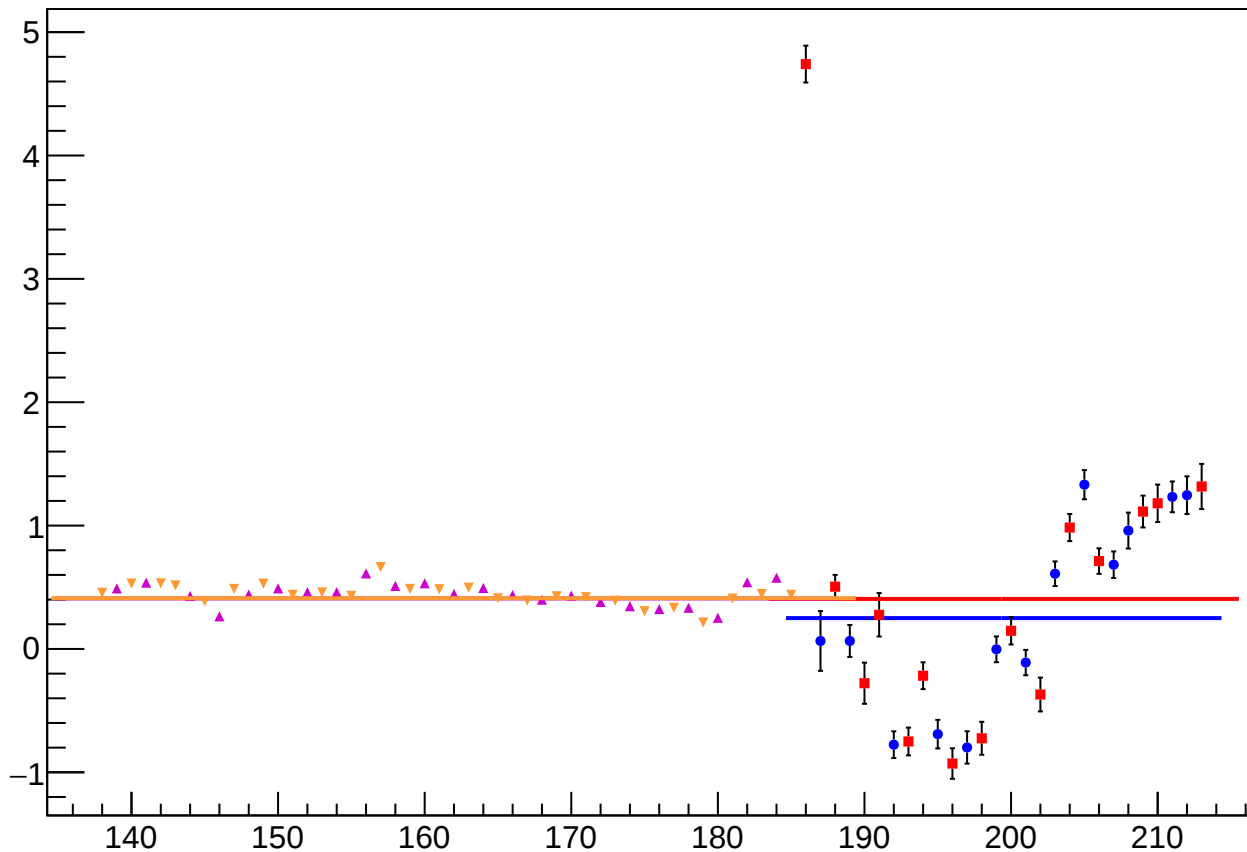
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.195 ± 0.867 $\chi^2/\text{NDF}: 85.1/12$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -2.146 ± 0.809 $\chi^2/\text{NDF}: 36.8/14$
 Left In: -14.936 ± 0.087 $\chi^2/\text{NDF}: 2199.7/22$

Left: -15.103 ± 0.061 $\chi^2/\text{NDF}: 4802.4/47$
 Right: -2.634 ± 0.592 $\chi^2/\text{NDF}: 122.6/27$
 In: -14.820 ± 0.086 $\chi^2/\text{NDF}: 2466.2/35$
 Out: -15.119 ± 0.085 $\chi^2/\text{NDF}: 2892.4/39$
 All: -14.971 ± 0.061 $\chi^2/\text{NDF}: 5364.7/75$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.250 $\pm$ 0.033 χ^2/NDF : 481.4/12

Left Out: 0.411 $\pm$ 0.004 χ^2/NDF : 428.7/24

Right Out: 0.406 $\pm$ 0.032 χ^2/NDF : 1341.5/14

Left In: 0.409 $\pm$ 0.004 χ^2/NDF : 557.8/22

Left: 0.410 $\pm$ 0.003 χ^2/NDF : 986.7/47

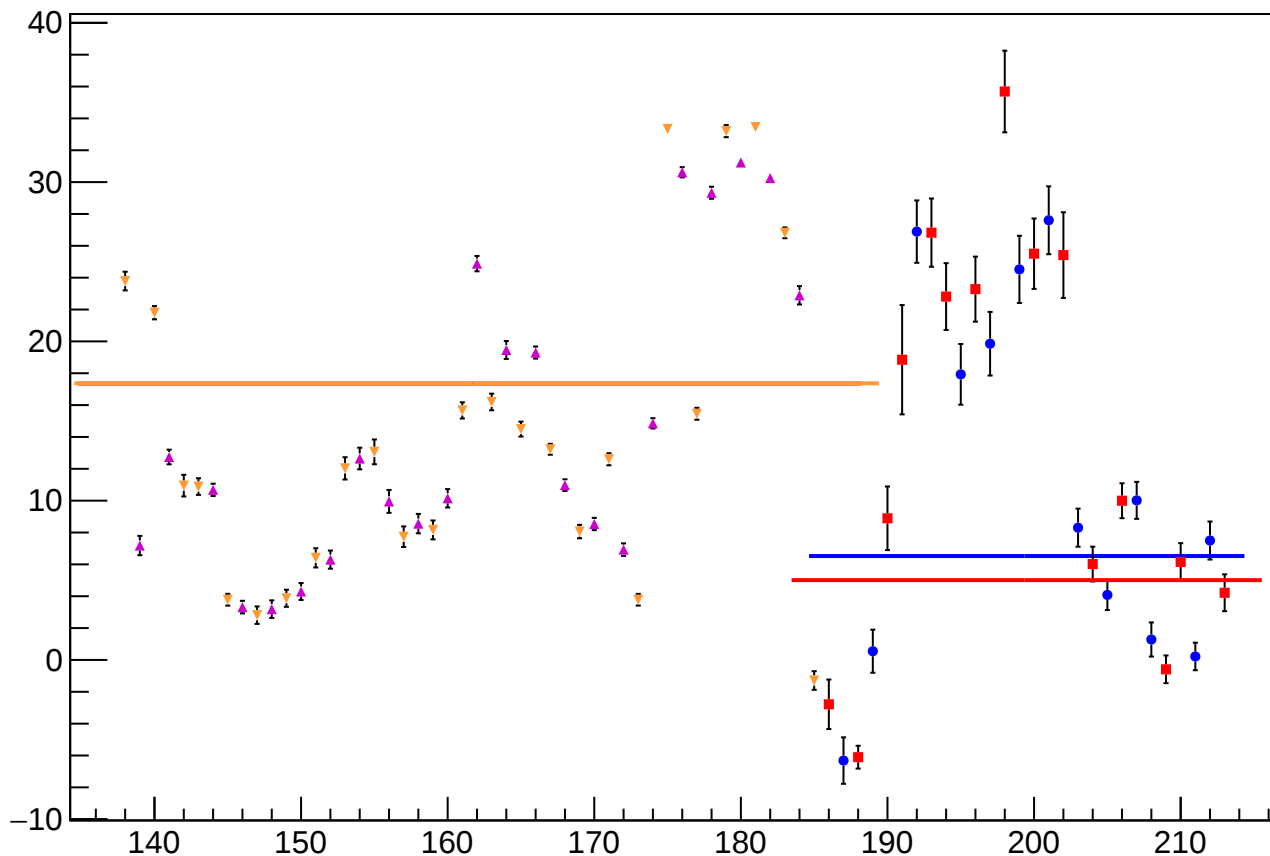
Right: 0.330 $\pm$ 0.023 χ^2/NDF : 1834.0/27

In: 0.407 $\pm$ 0.004 χ^2/NDF : 1061.6/35

Out: 0.411 $\pm$ 0.004 χ^2/NDF : 1770.2/39

All: 0.409 $\pm$ 0.003 χ^2/NDF : 2832.3/75

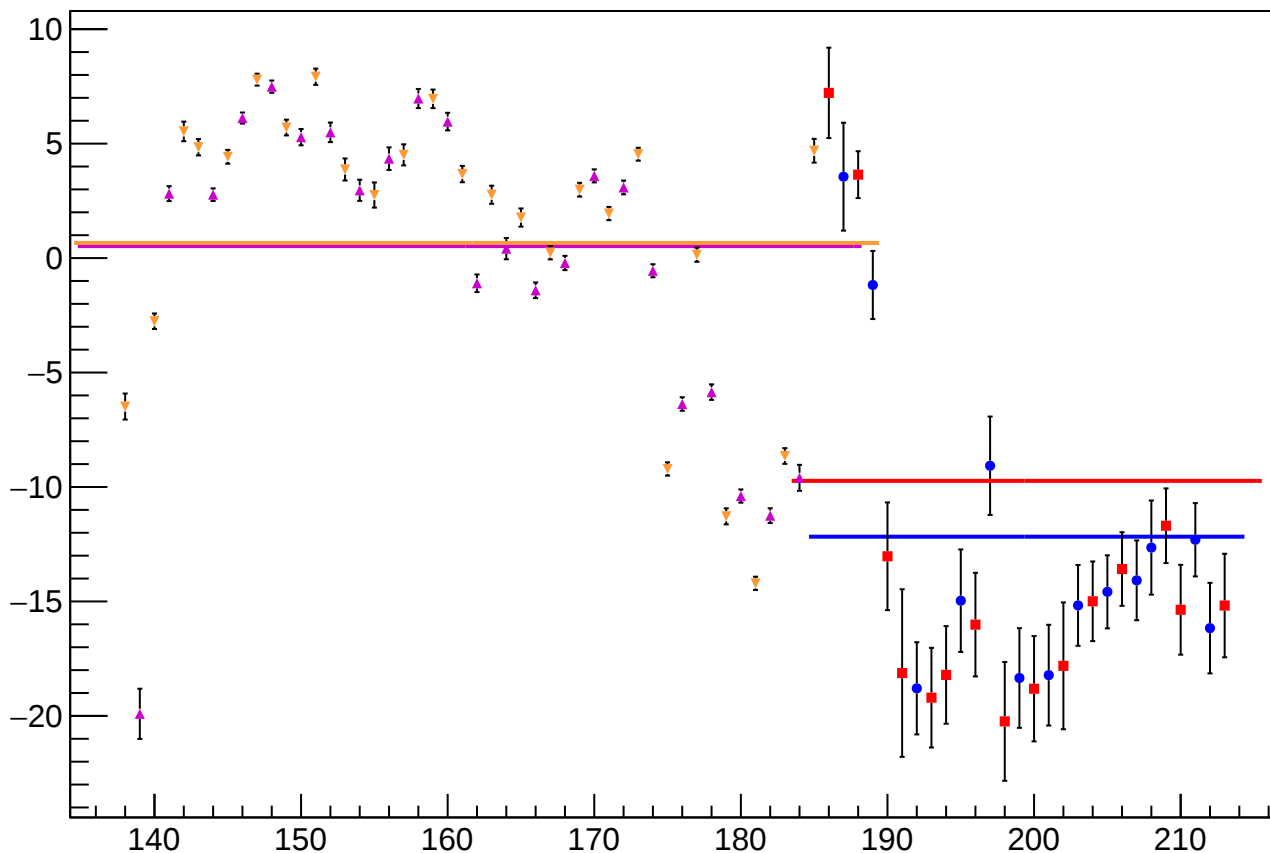
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.523 $\pm$ 0.360 χ^2 /NDF: 551.8/12
 Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24
 Right Out: 5.009 $\pm$ 0.346 χ^2 /NDF: 892.9/14
 Left In: 17.355 $\pm$ 0.089 χ^2 /NDF:12745.1/22

Left: 17.361 $\pm$ 0.062 χ^2 /NDF: 29082.8/47
 Right: 5.736 $\pm$ 0.250 χ^2 /NDF: 1453.8/27
 In: 16.734 $\pm$ 0.086 χ^2 /NDF:14148.9/35
 Out: 16.632 $\pm$ 0.084 χ^2 /NDF:18428.4/39
 All: 16.682 $\pm$ 0.060 χ^2 /NDF: 32578.0/75

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.171 ± 0.524 $\chi^2/\text{NDF}: 139.7/12$

Left Out: 0.661 ± 0.069 $\chi^2/\text{NDF}: 8553.9/24$

Right Out: -9.732 ± 0.493 $\chi^2/\text{NDF}: 365.2/14$

Left In: 0.524 ± 0.071 $\chi^2/\text{NDF}: 6729.7/22$

Left: 0.594 ± 0.050 $\chi^2/\text{NDF}: 15285.5/47$

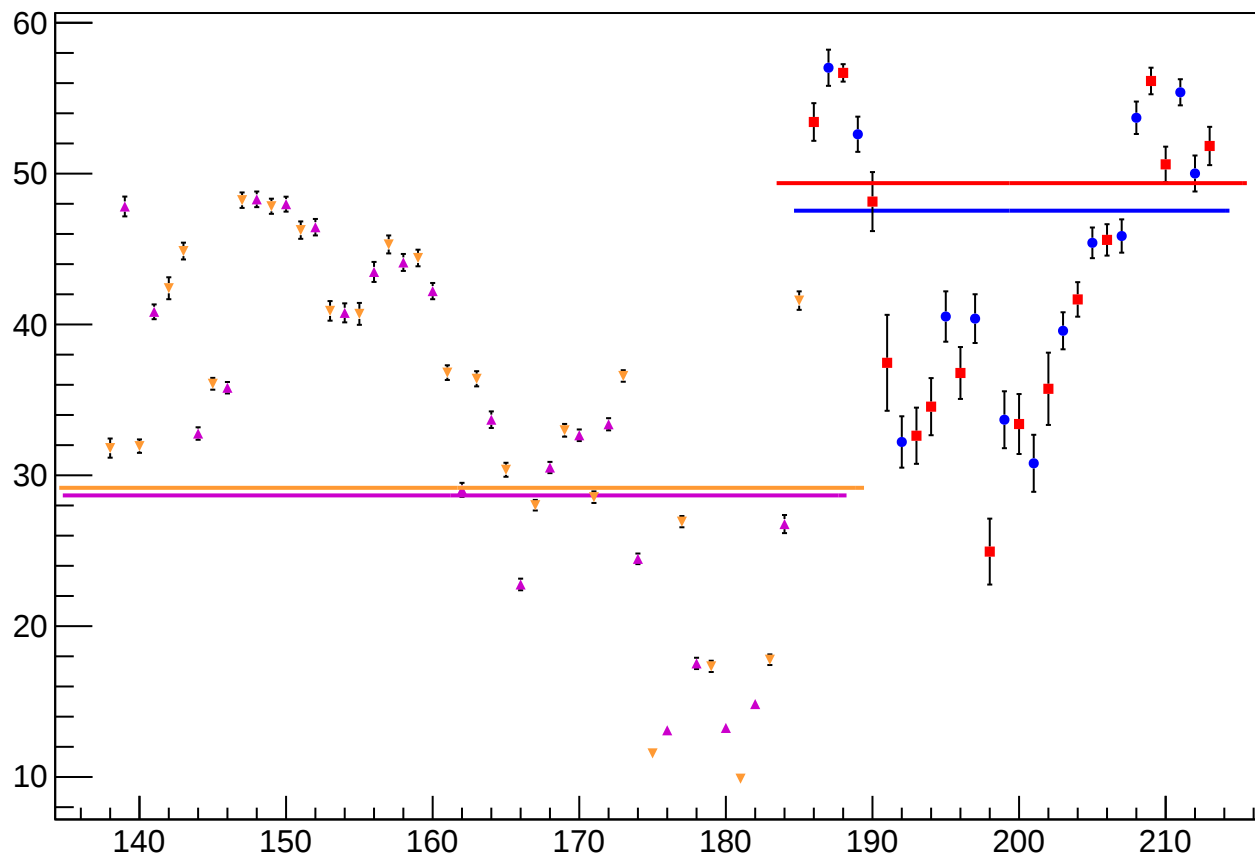
Right: -10.877 ± 0.359 $\chi^2/\text{NDF}: 516.3/27$

In: 0.297 ± 0.070 $\chi^2/\text{NDF}: 7444.9/35$

Out: 0.459 ± 0.069 $\chi^2/\text{NDF}: 9354.2/39$

All: 0.380 ± 0.049 $\chi^2/\text{NDF}: 16801.9/75$

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: 28.923 ± 0.063 χ^2/NDF : 35838.1/47

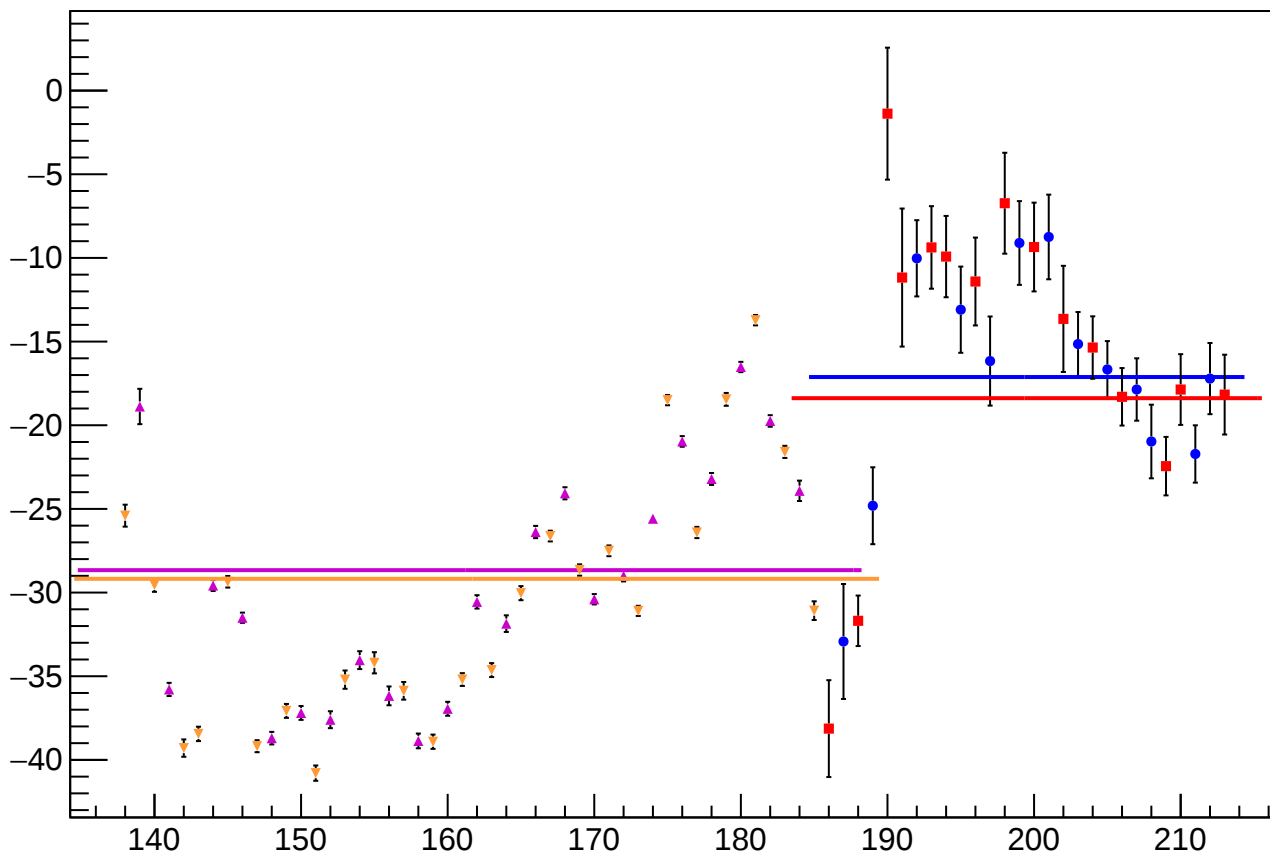
Right: 48.527 ± 0.234 χ^2/NDF : 1239.5/27

In: 29.852 ± 0.086 χ^2/NDF : 20162.2/35

Out: 30.596 ± 0.085 χ^2/NDF : 23434.8/39

All: 30.231 ± 0.060 χ^2/NDF : 43634.9/75

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



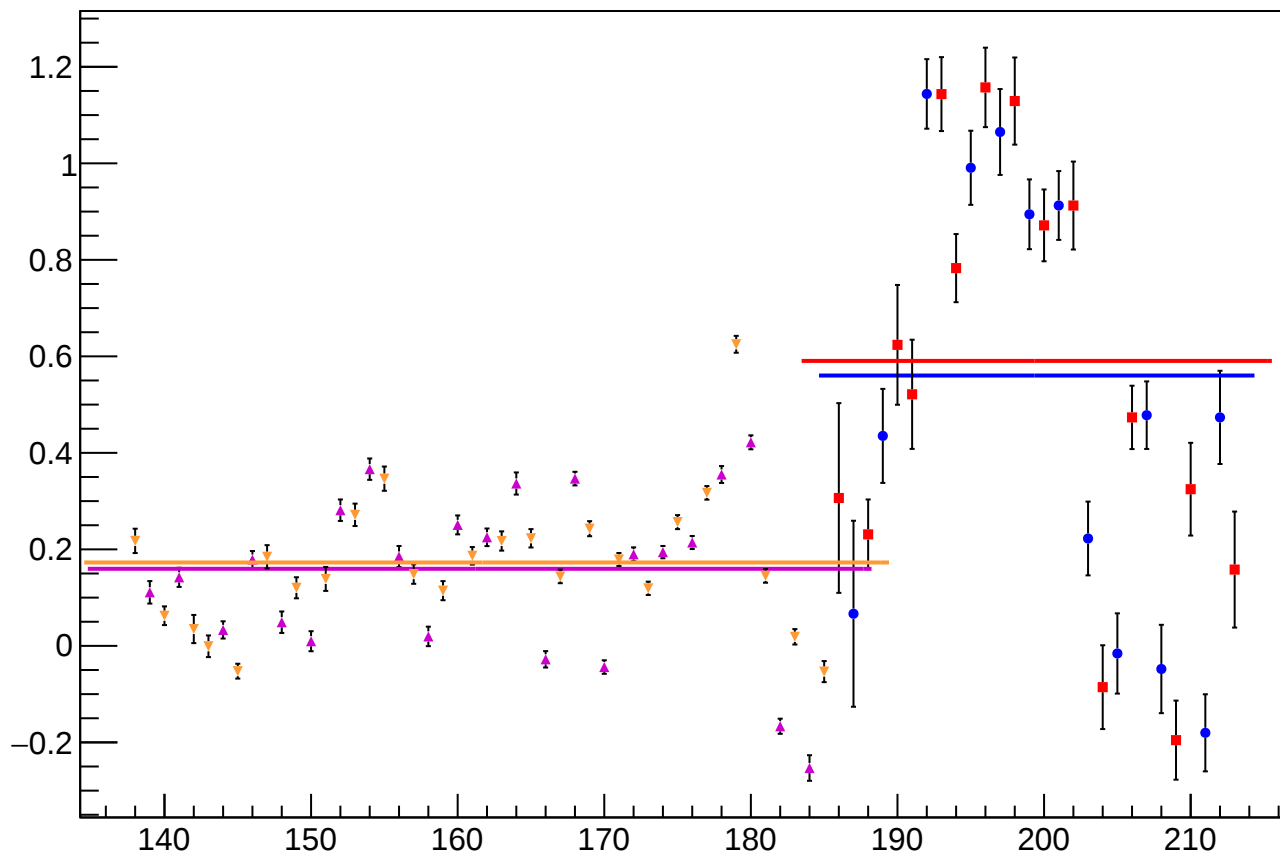
Right In: -17.118 ± 0.603 $\chi^2/\text{NDF}: 77.4/12$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -18.383 ± 0.591 $\chi^2/\text{NDF}: 215.3/14$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -17.763 ± 0.422 $\chi^2/\text{NDF}: 294.9/27$

In: -28.461 ± 0.079 $\chi^2/\text{NDF}: 7107.8/35$
 Out: -28.992 ± 0.077 $\chi^2/\text{NDF}: 9624.8/39$

All: -28.732 ± 0.055 $\chi^2/\text{NDF}: 16755.6/75$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.560 ± 0.023 χ^2/NDF : 383.0/12

Left Out: 0.173 ± 0.004 χ^2/NDF : 1478.5/24

Right Out: 0.591 ± 0.022 χ^2/NDF : 372.8/14

Left In: 0.160 ± 0.004 χ^2/NDF : 2057.9/22

Left: 0.166 ± 0.003 χ^2/NDF : 3542.9/47

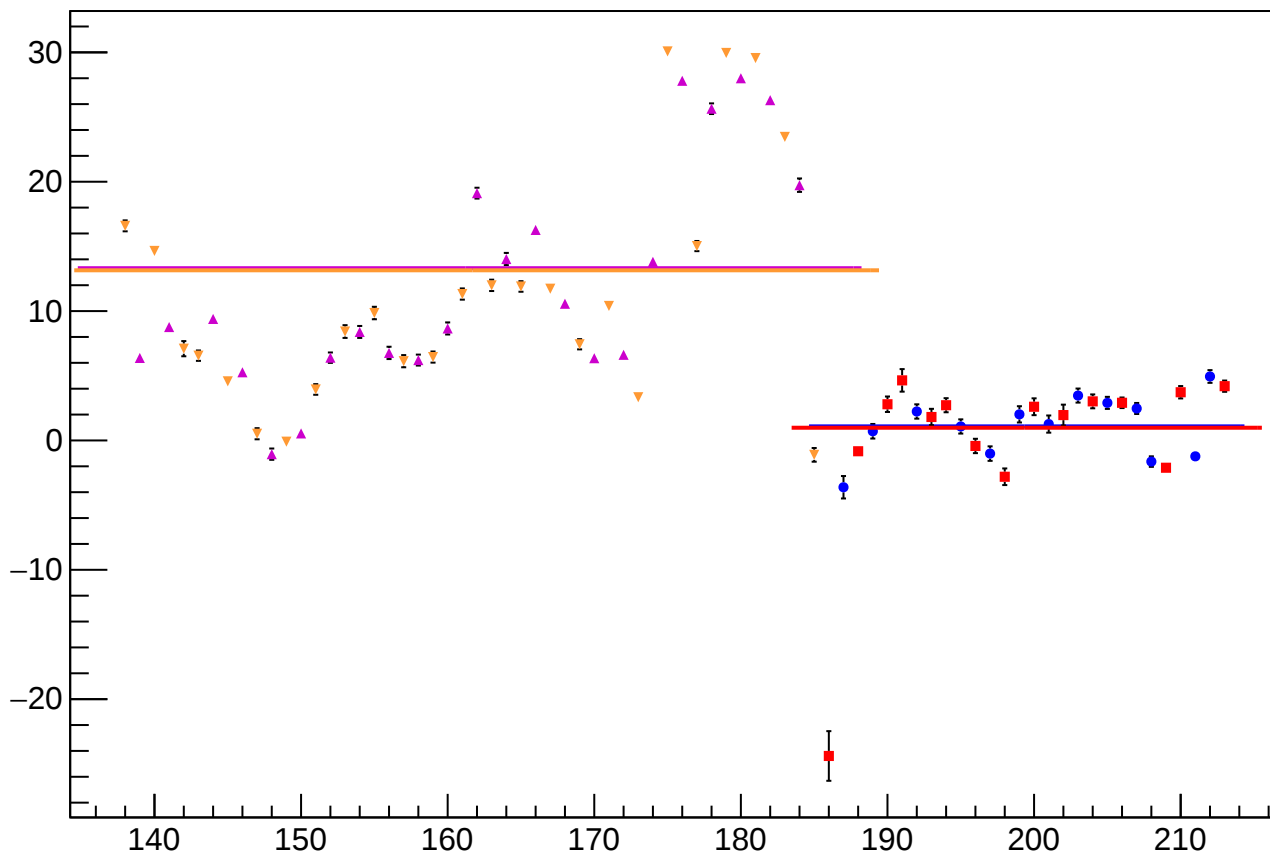
Right: 0.576 ± 0.016 χ^2/NDF : 756.6/27

In: 0.170 ± 0.004 χ^2/NDF : 2739.9/35

Out: 0.183 ± 0.004 χ^2/NDF : 2190.3/39

All: 0.177 ± 0.003 χ^2/NDF : 4937.5/75

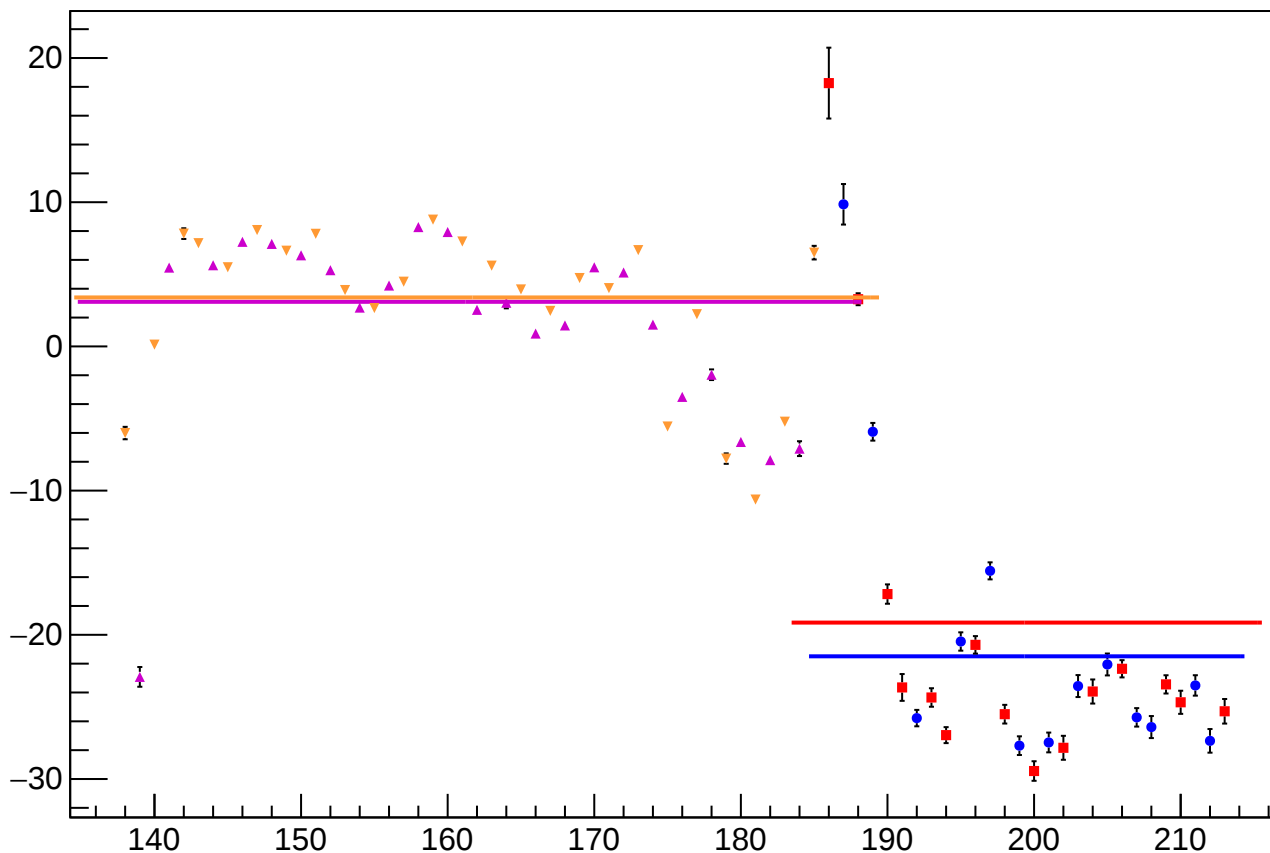
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.087 $\pm$ 0.142 χ^2 /NDF: 238.5/12
 Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24
 Right Out: 0.983 $\pm$ 0.129 χ^2 /NDF: 512.0/14
 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: 1.030 $\pm$ 0.095 χ^2 /NDF: 750.7/27
 In: 10.533 $\pm$ 0.068 χ^2 /NDF:19938.9/35
 Out: 10.058 $\pm$ 0.065 χ^2 /NDF:24248.9/39
 All: 10.285 $\pm$ 0.047 χ^2 /NDF: 44213.3/75

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.492 ± 0.192 $\chi^2/\text{NDF}: 1620.0/12$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -19.152 ± 0.173 $\chi^2/\text{NDF}: 4105.5/14$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

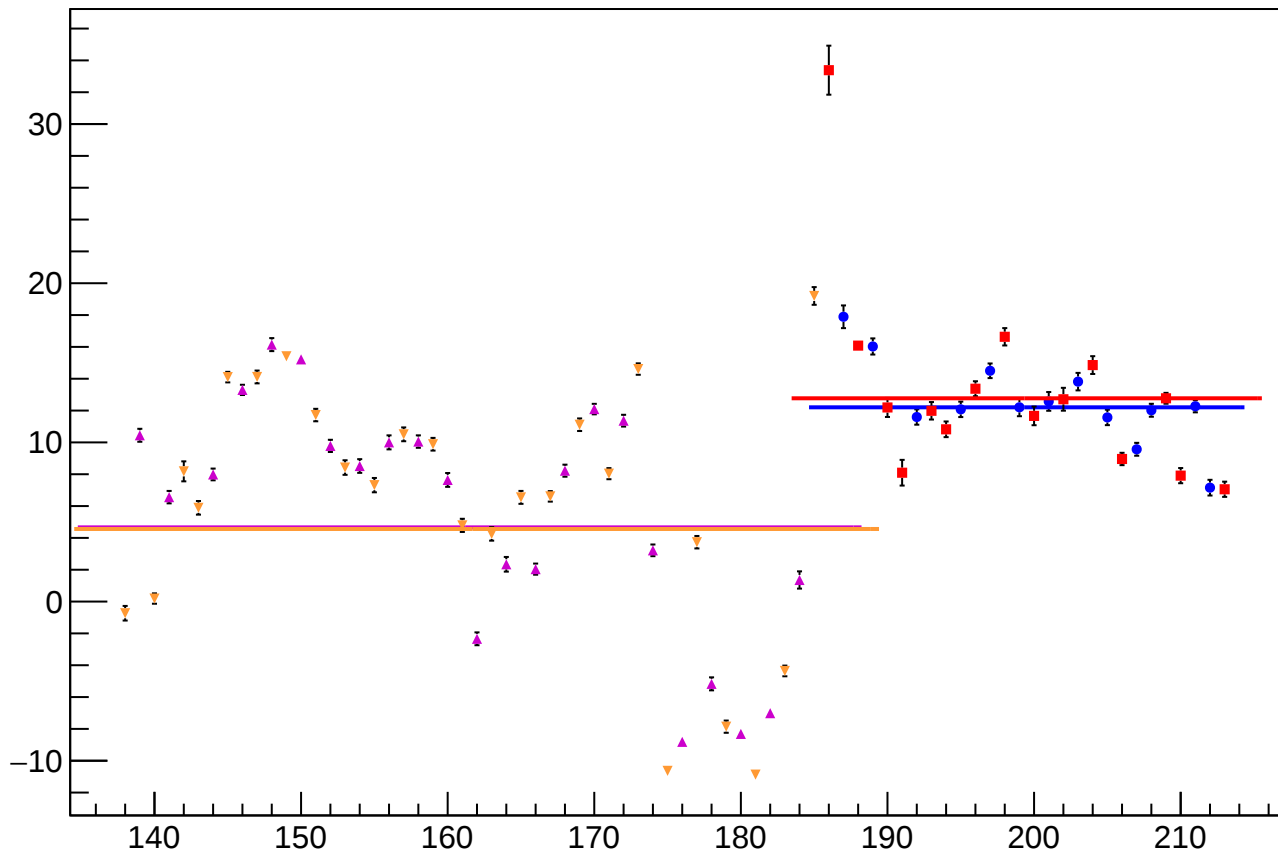
Right: -20.201 ± 0.128 $\chi^2/\text{NDF}: 5807.6/27$

In: 0.862 ± 0.058 $\chi^2/\text{NDF}: 23667.6/35$

Out: 1.089 ± 0.055 $\chi^2/\text{NDF}: 27471.9/39$

All: 0.980 ± 0.040 $\chi^2/\text{NDF}: 51147.5/75$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 12.204 $\pm$ 0.134 χ^2 /NDF: 305.0/12

Left Out: 4.561 $\pm$ 0.075 χ^2 /NDF:13592.1/24

Right Out: 12.771 $\pm$ 0.118 χ^2 /NDF: 852.9/14

Left In: 4.662 $\pm$ 0.077 χ^2 /NDF:11281.5/22

Left: 4.610 $\pm$ 0.054 χ^2 /NDF: 24874.4/47

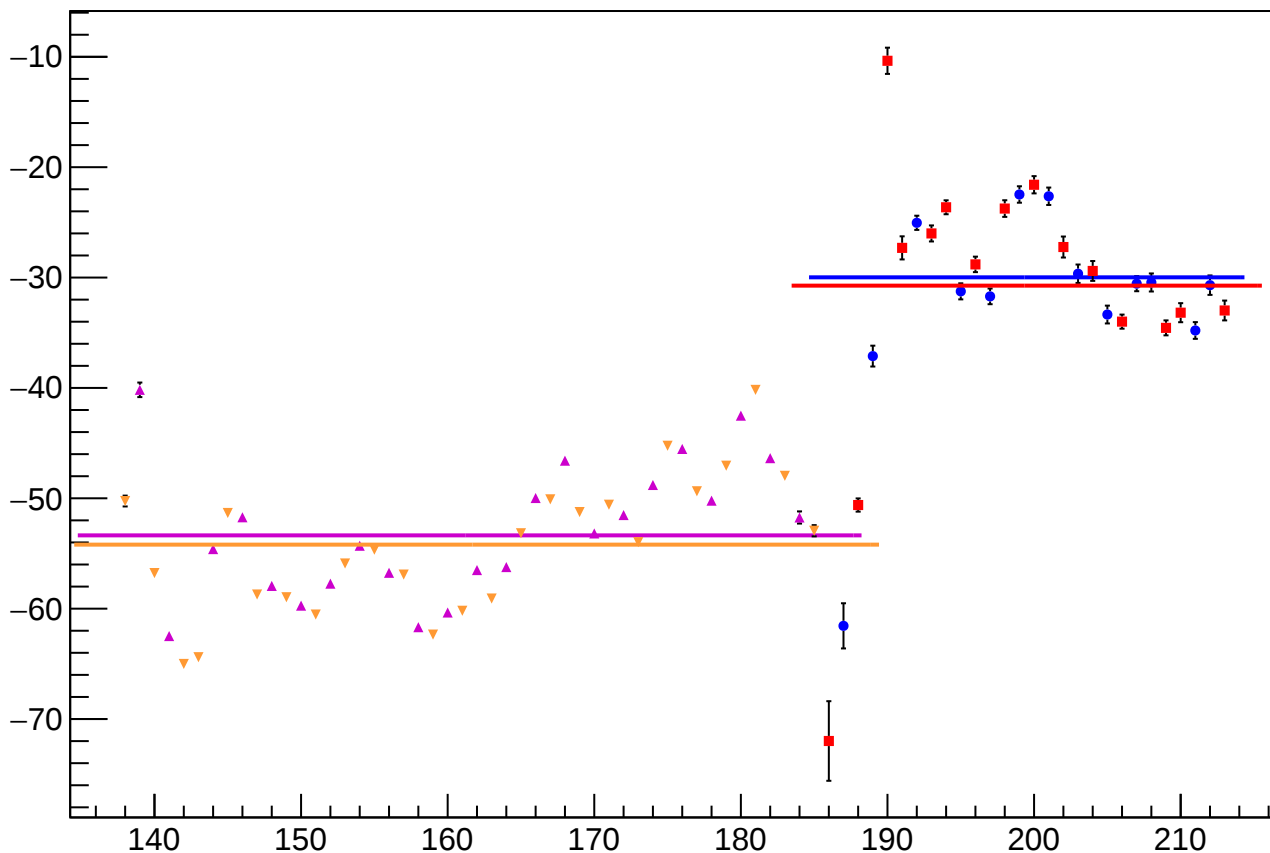
Right: 12.522 $\pm$ 0.089 χ^2 /NDF: 1167.9/27

In: 6.530 $\pm$ 0.067 χ^2 /NDF:13974.3/35

Out: 6.927 $\pm$ 0.064 χ^2 /NDF:17862.4/39

All: 6.737 $\pm$ 0.046 χ^2 /NDF: 31855.2/75

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.979 ± 0.220 $\chi^2/\text{NDF}: 610.9/12$

Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$

Right Out: -30.732 ± 0.205 $\chi^2/\text{NDF}: 2023.8/14$

Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

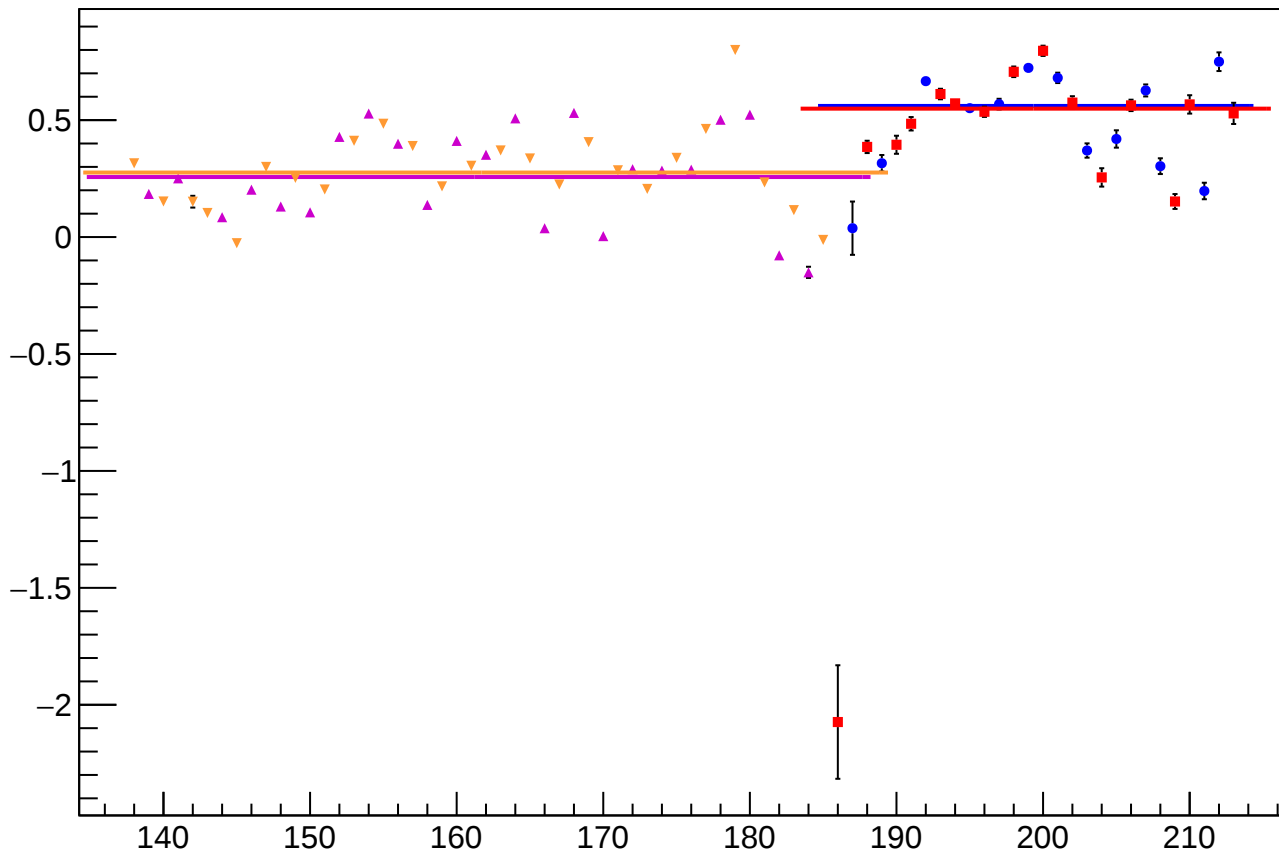
Right: -30.383 ± 0.150 $\chi^2/\text{NDF}: 2641.0/27$

In: -51.292 ± 0.065 $\chi^2/\text{NDF}: 17797.8/35$

Out: -51.965 ± 0.063 $\chi^2/\text{NDF}: 22370.6/39$

All: -51.640 ± 0.045 $\chi^2/\text{NDF}: 40223.3/75$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.561 ± 0.008 χ^2/NDF : 430.5/12

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.549 ± 0.007 χ^2/NDF : 575.1/14

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

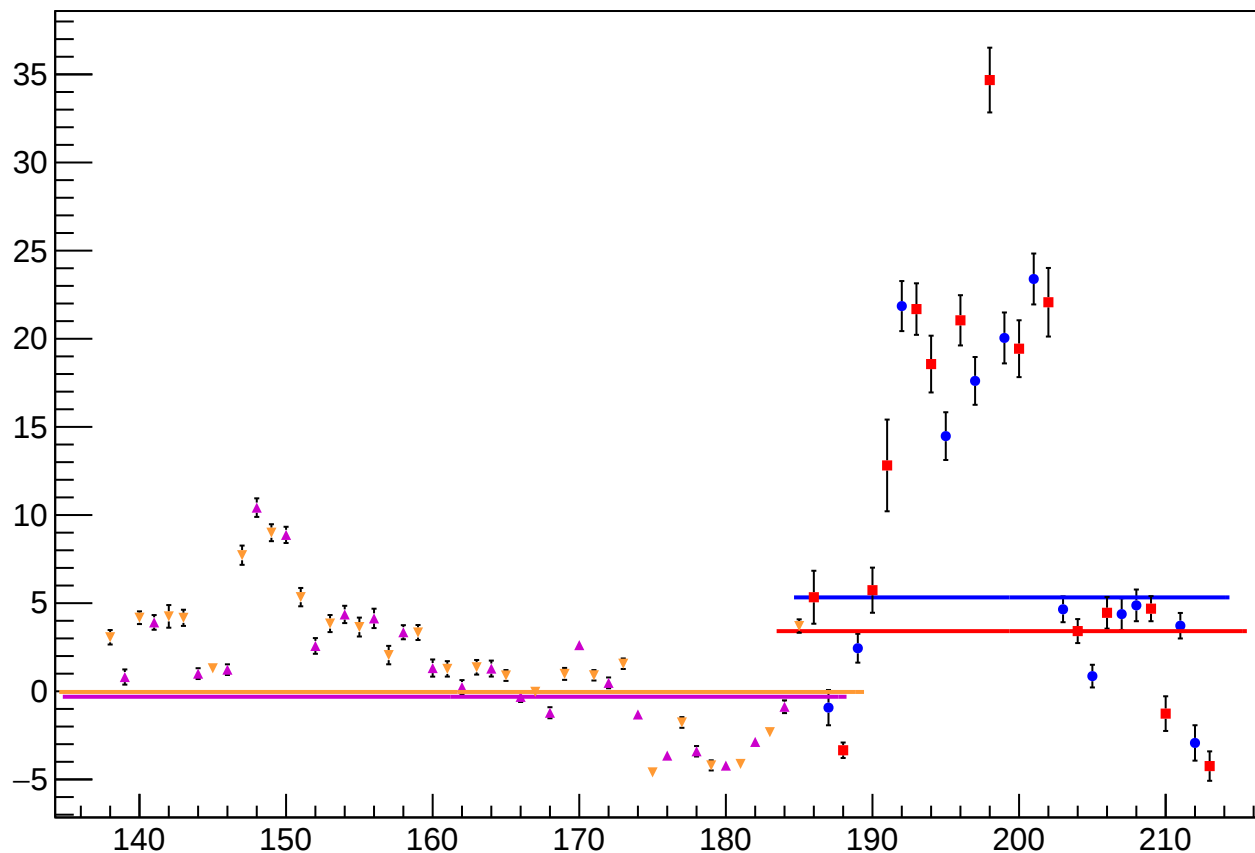
Right: 0.554 ± 0.005 χ^2/NDF : 1006.8/27

In: 0.300 ± 0.003 χ^2/NDF : 5416.4/35

Out: 0.319 ± 0.003 χ^2/NDF : 4466.0/39

All: 0.310 ± 0.002 χ^2/NDF : 9905.3/75

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.327 ± 0.261 $\chi^2/\text{NDF}: 698.0/12$

Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$

Right Out: 3.413 ± 0.246 $\chi^2/\text{NDF}: 1244.3/14$

Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$

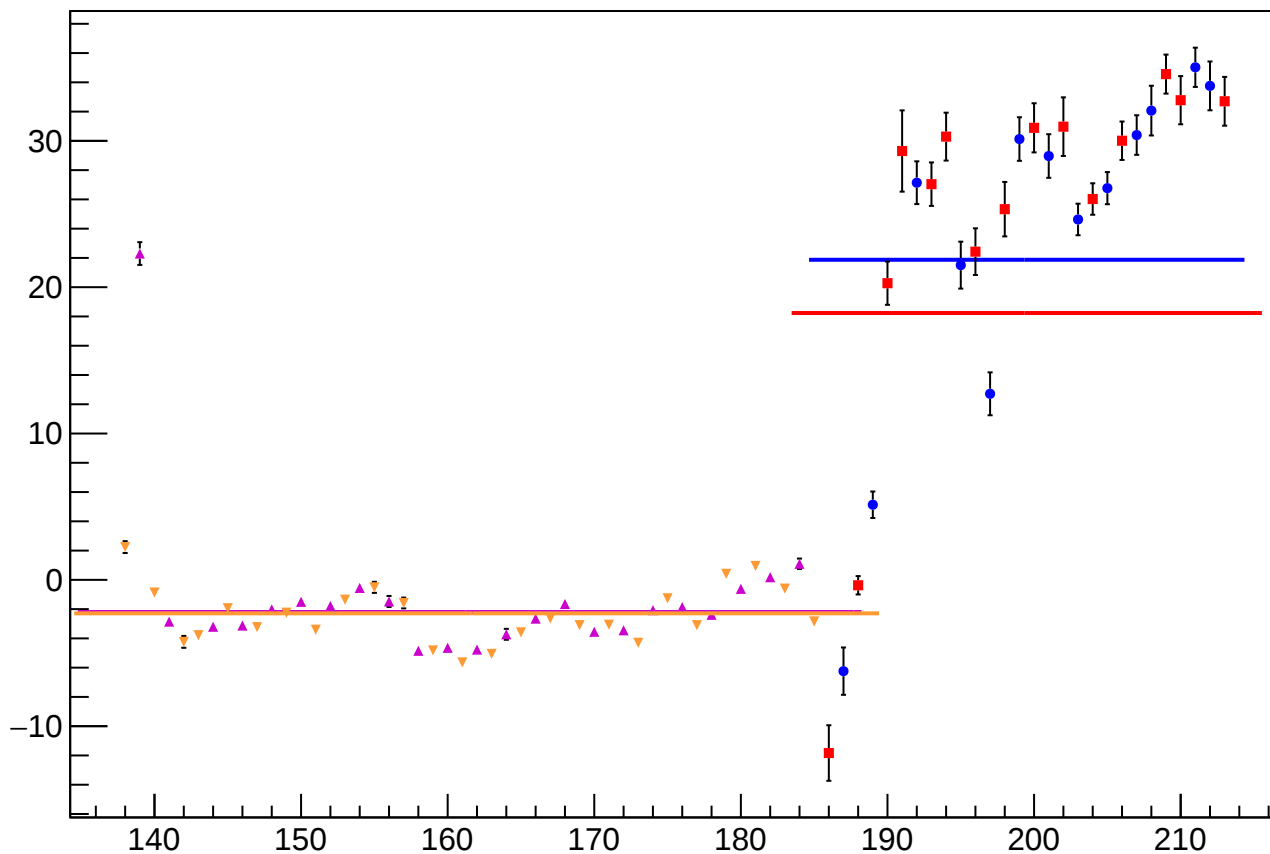
Right: 4.314 ± 0.179 $\chi^2/\text{NDF}: 1970.8/27$

In: 0.042 ± 0.065 $\chi^2/\text{NDF}: 3386.1/35$

Out: 0.195 ± 0.064 $\chi^2/\text{NDF}: 4065.5/39$

All: 0.120 ± 0.046 $\chi^2/\text{NDF}: 7454.4/75$

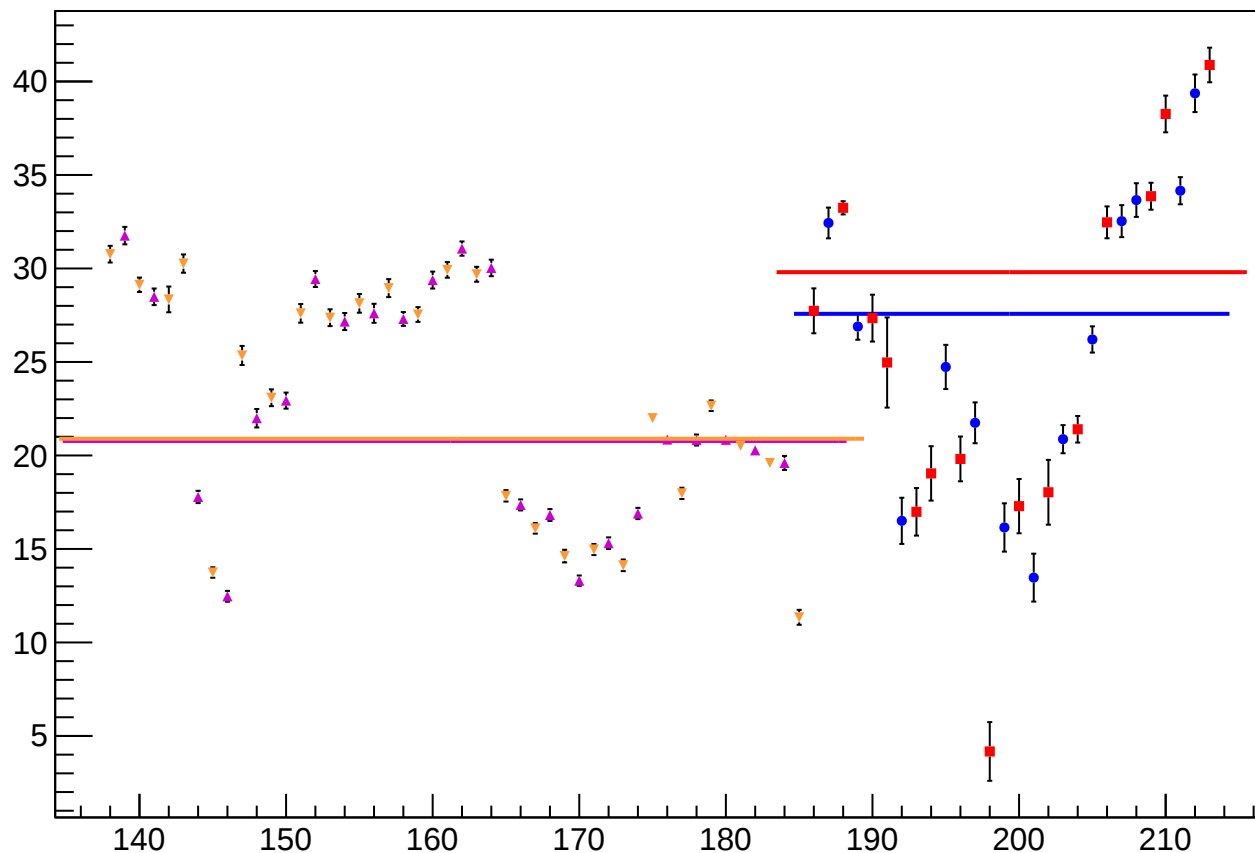
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 21.874+/-0.370 χ^2/NDF : 998.4/12
 Left Out: -2.288+/-0.054 χ^2/NDF : 1137.7/24
 Right Out: 18.235+/-0.348 χ^2/NDF : 1791.5/14
 Left In: -2.198+/-0.055 χ^2/NDF : 1673.9/22

Left: -2.244+/-0.039 χ^2/NDF : 2813.0/47
 Right: 19.946+/-0.253 χ^2/NDF : 2841.2/27
 In: -1.674+/-0.054 χ^2/NDF : 6823.1/35
 Out: -1.803+/-0.053 χ^2/NDF : 6323.1/39
 All: -1.740+/-0.038 χ^2/NDF : 13149.0/75

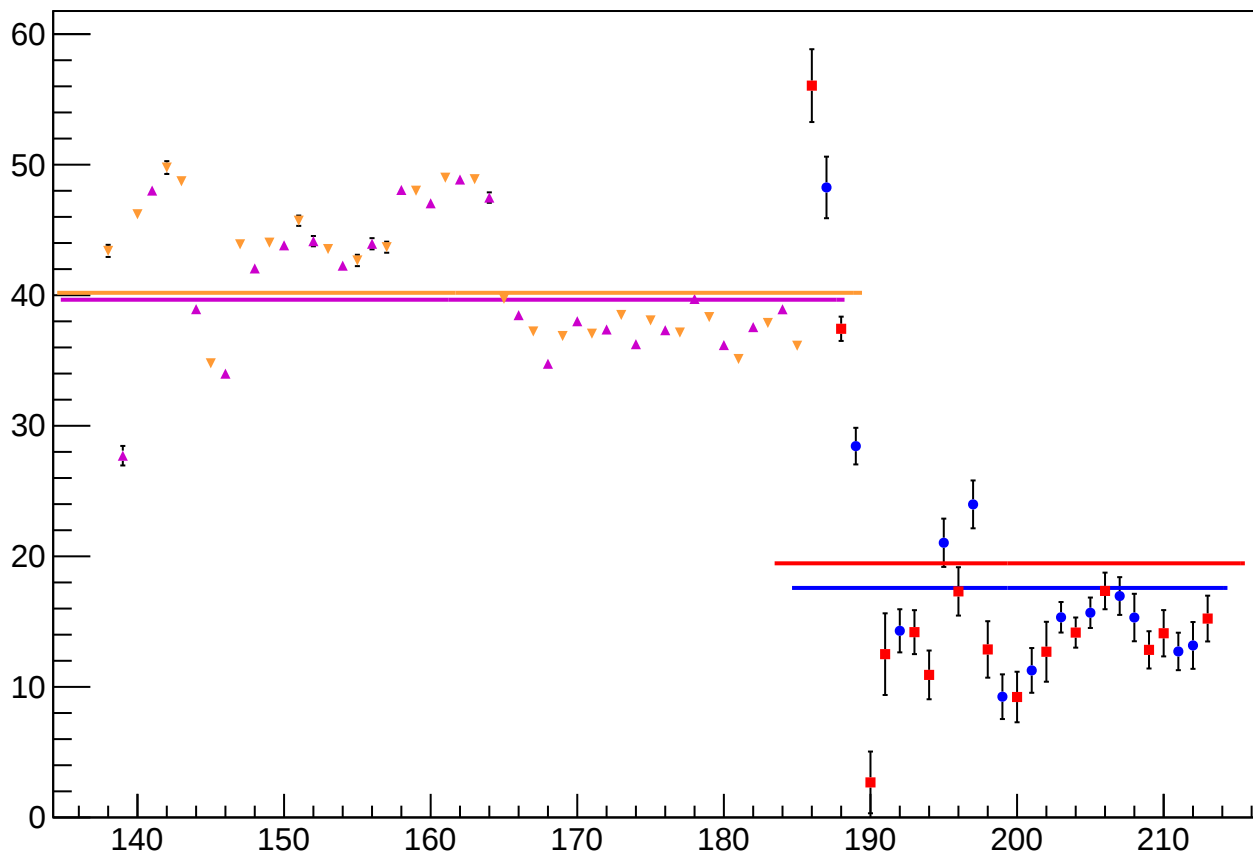
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.575 $\pm$ 0.248 χ^2 /NDF: 732.4/12
 Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24
 Right Out: 29.802 $\pm$ 0.224 χ^2 /NDF: 1117.4/14
 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: 28.804 $\pm$ 0.166 χ^2 /NDF: 1894.2/27
 In: 21.242 $\pm$ 0.065 χ^2 /NDF:7357.8/35
 Out: 21.621 $\pm$ 0.064 χ^2 /NDF:9228.3/39
 All: 21.435 $\pm$ 0.046 χ^2 /NDF: 16603.4/75

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 17.580 ± 0.431 χ^2/NDF : 311.8/12

Left Out: 40.186 ± 0.060 χ^2/NDF : 5932.7/24

Right Out: 19.465 ± 0.424 χ^2/NDF : 738.5/14

Left In: 39.655 ± 0.061 χ^2/NDF : 5298.6/22

Left: 39.925 ± 0.043 χ^2/NDF : 11269.2/47

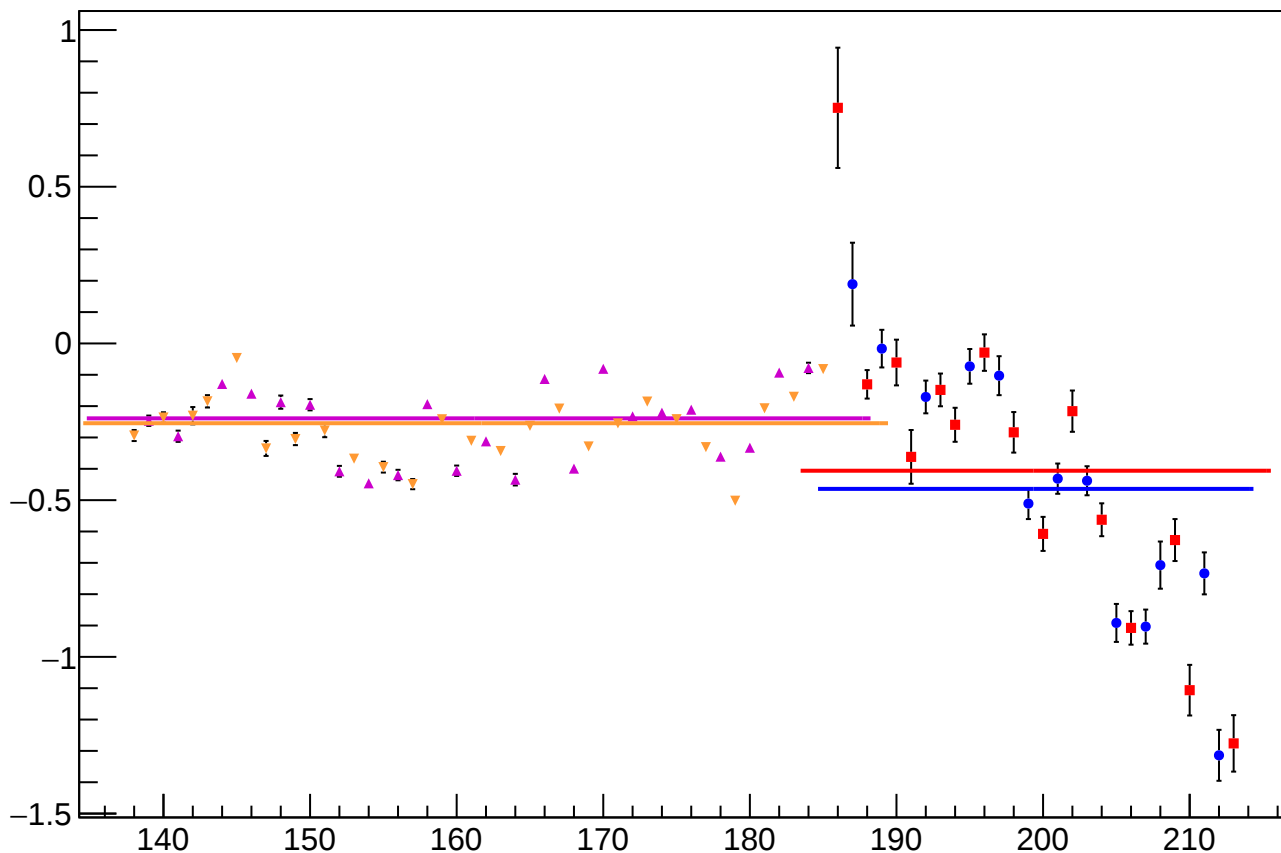
Right: 18.539 ± 0.302 χ^2/NDF : 1060.0/27

In: 39.216 ± 0.061 χ^2/NDF : 8175.8/35

Out: 39.774 ± 0.060 χ^2/NDF : 9011.3/39

All: 39.500 ± 0.043 χ^2/NDF : 17229.8/75

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.464 ± 0.016 χ^2/NDF : 448.0/12

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.406 ± 0.016 χ^2/NDF : 471.2/14

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

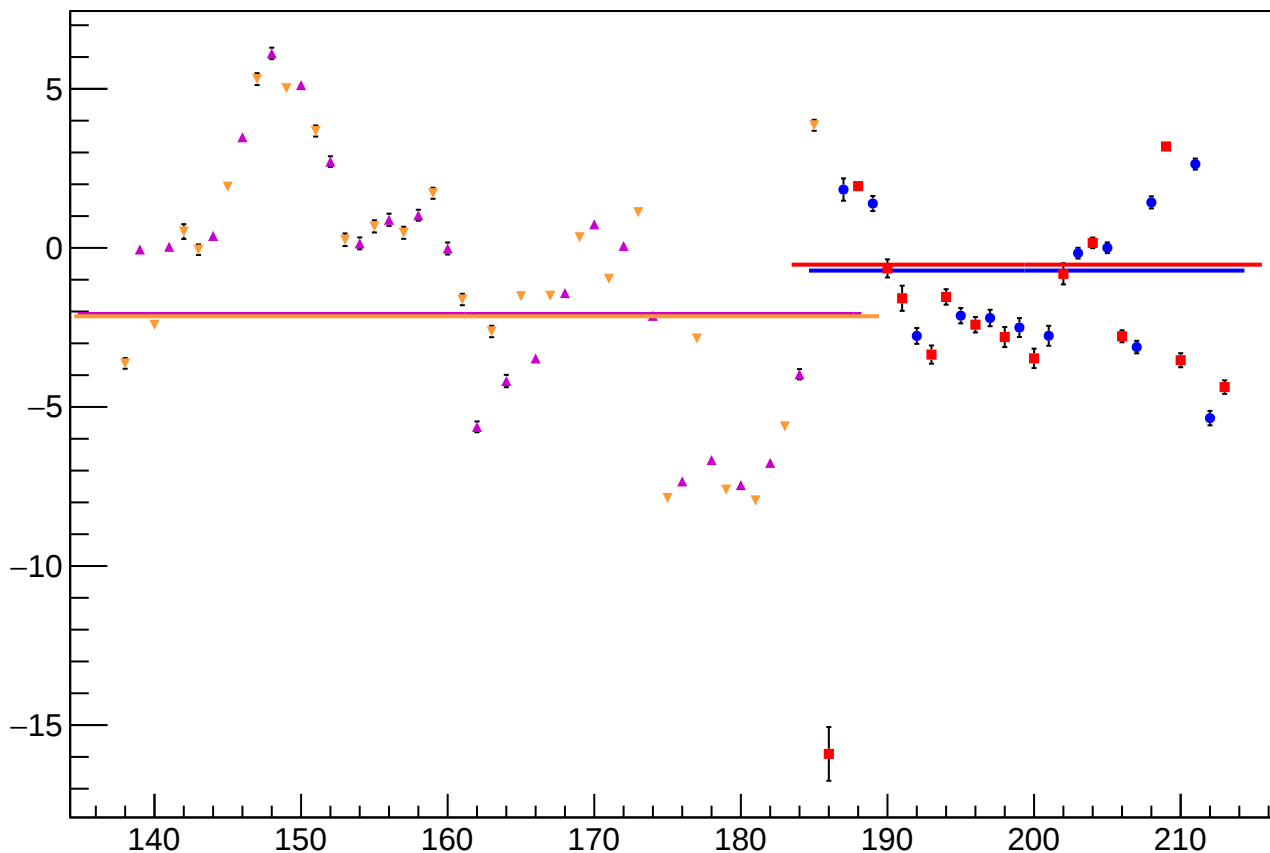
Right: -0.435 ± 0.011 χ^2/NDF : 925.5/27

In: -0.245 ± 0.003 χ^2/NDF : 2383.1/35

Out: -0.259 ± 0.003 χ^2/NDF : 1977.7/39

All: -0.252 ± 0.002 χ^2/NDF : 4373.0/75

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

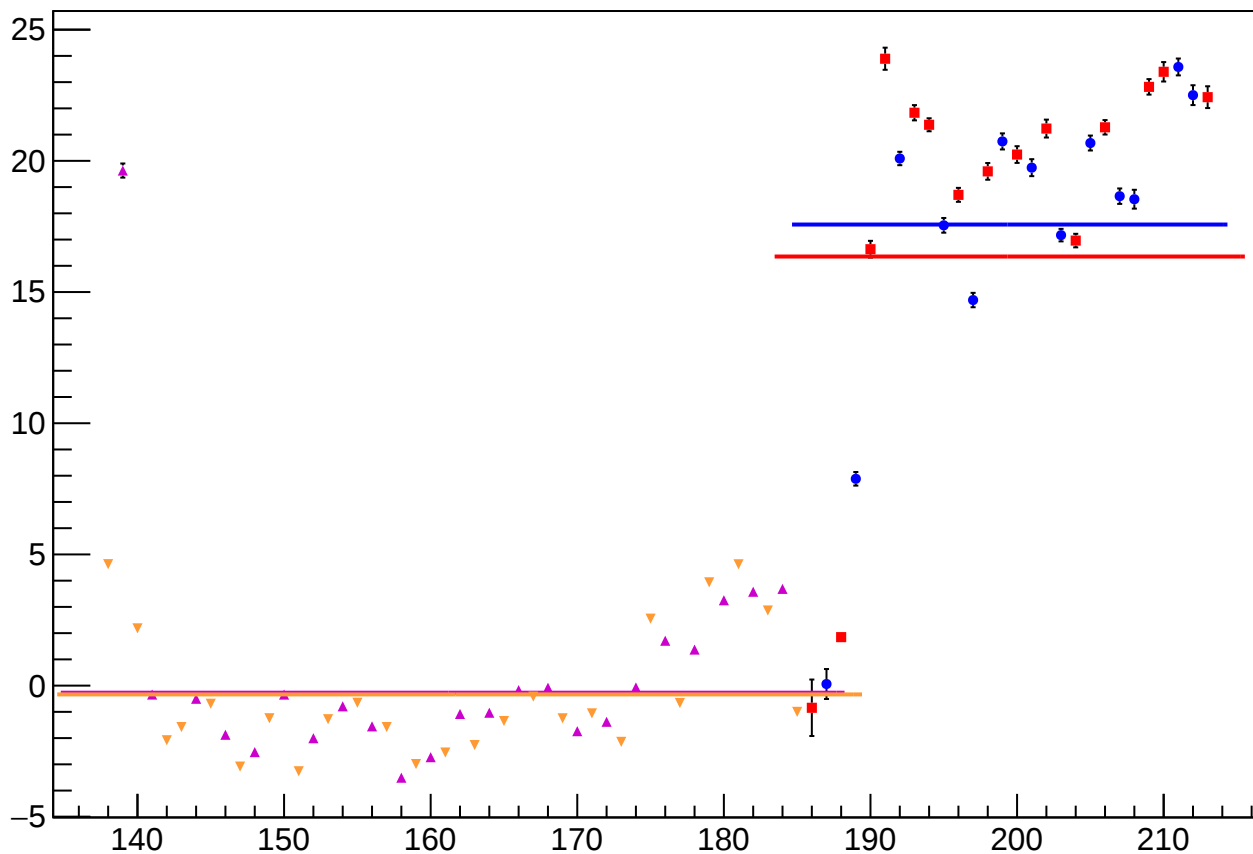


Right In: -0.713 ± 0.061 $\chi^2/\text{NDF}: 1440.0/12$
 Left Out: -2.149 ± 0.026 $\chi^2/\text{NDF}: 24536.3/24$
 Right Out: -0.526 ± 0.055 $\chi^2/\text{NDF}: 2389.3/14$
 Left In: -2.078 ± 0.026 $\chi^2/\text{NDF}: 23245.8/22$

Left: -2.114 ± 0.018 $\chi^2/\text{NDF}: 47785.8/47$
 Right: -0.611 ± 0.041 $\chi^2/\text{NDF}: 3834.5/27$
 In: -1.865 ± 0.024 $\chi^2/\text{NDF}: 25113.2/35$
 Out: -1.863 ± 0.023 $\chi^2/\text{NDF}: 27631.5/39$

All: -1.864 ± 0.017 $\chi^2/\text{NDF}: 52744.7/75$

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.573 ± 0.083 χ^2/NDF : 3360.3/12

Left Out: -0.335 ± 0.021 χ^2/NDF : 12596.1/24

Right Out: 16.354 ± 0.075 χ^2/NDF : 11334.0/14

Left In: -0.269 ± 0.021 χ^2/NDF : 13323.1/22

Left: -0.303 ± 0.015 χ^2/NDF : 25924.2/47

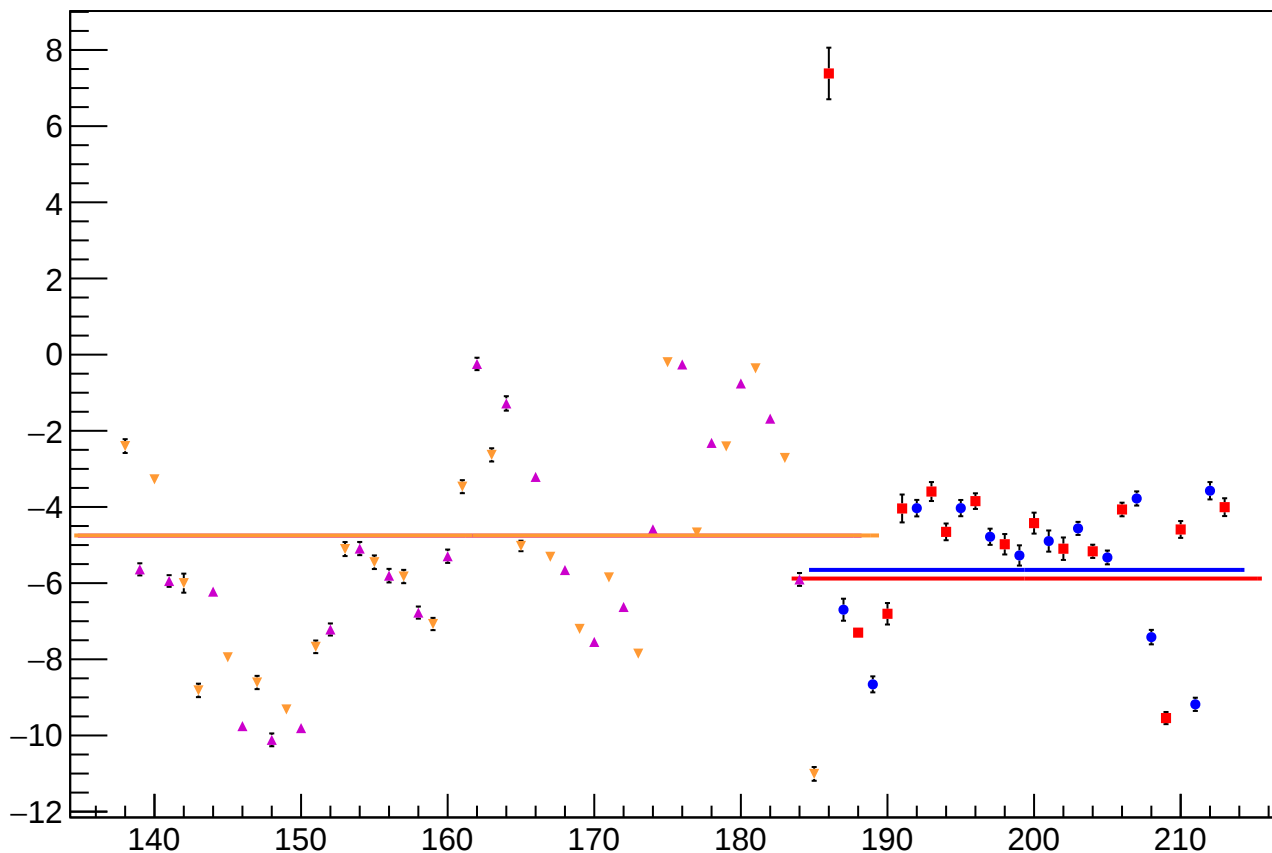
Right: 16.902 ± 0.056 χ^2/NDF : 14813.2/27

In: 0.800 ± 0.020 χ^2/NDF : 60164.4/35

Out: 0.835 ± 0.020 χ^2/NDF : 70033.6/39

All: 0.818 ± 0.014 χ^2/NDF : 130199.6/75

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

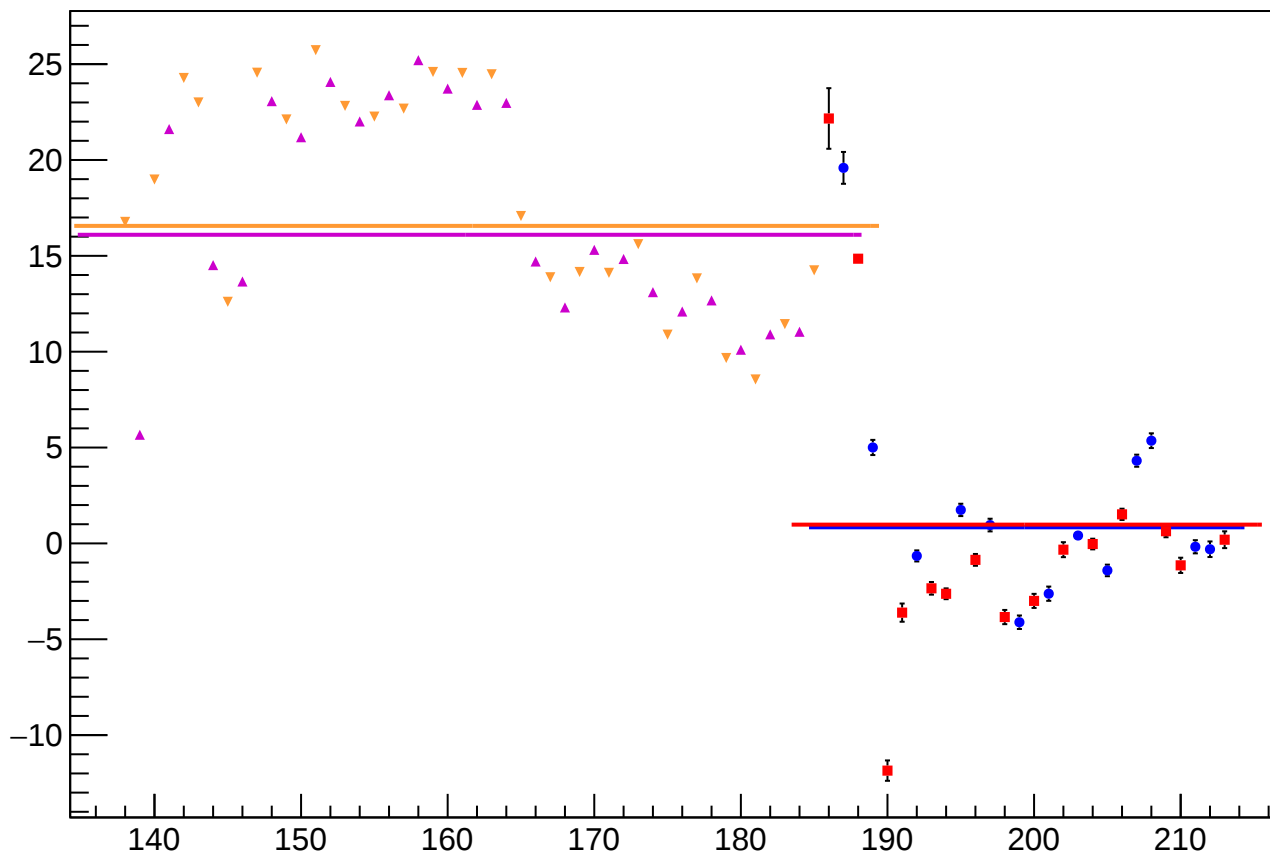


Right In: -5.652+/-0.058 χ^2/NDF : 1083.5/12
 Left Out: -4.748+/-0.026 χ^2/NDF :13289.8/24
 Right Out: -5.880+/-0.051 χ^2/NDF : 1678.4/14
 Left In: -4.753+/-0.026 χ^2/NDF :14119.2/22

Left: -4.751+/-0.018 χ^2/NDF : 27409.0/47
 Right: -5.781+/-0.038 χ^2/NDF : 2770.6/27
 In: -4.906+/-0.024 χ^2/NDF :15404.0/35
 Out: -4.982+/-0.023 χ^2/NDF :15364.7/39

All: -4.945+/-0.017 χ^2/NDF : 30774.0/75

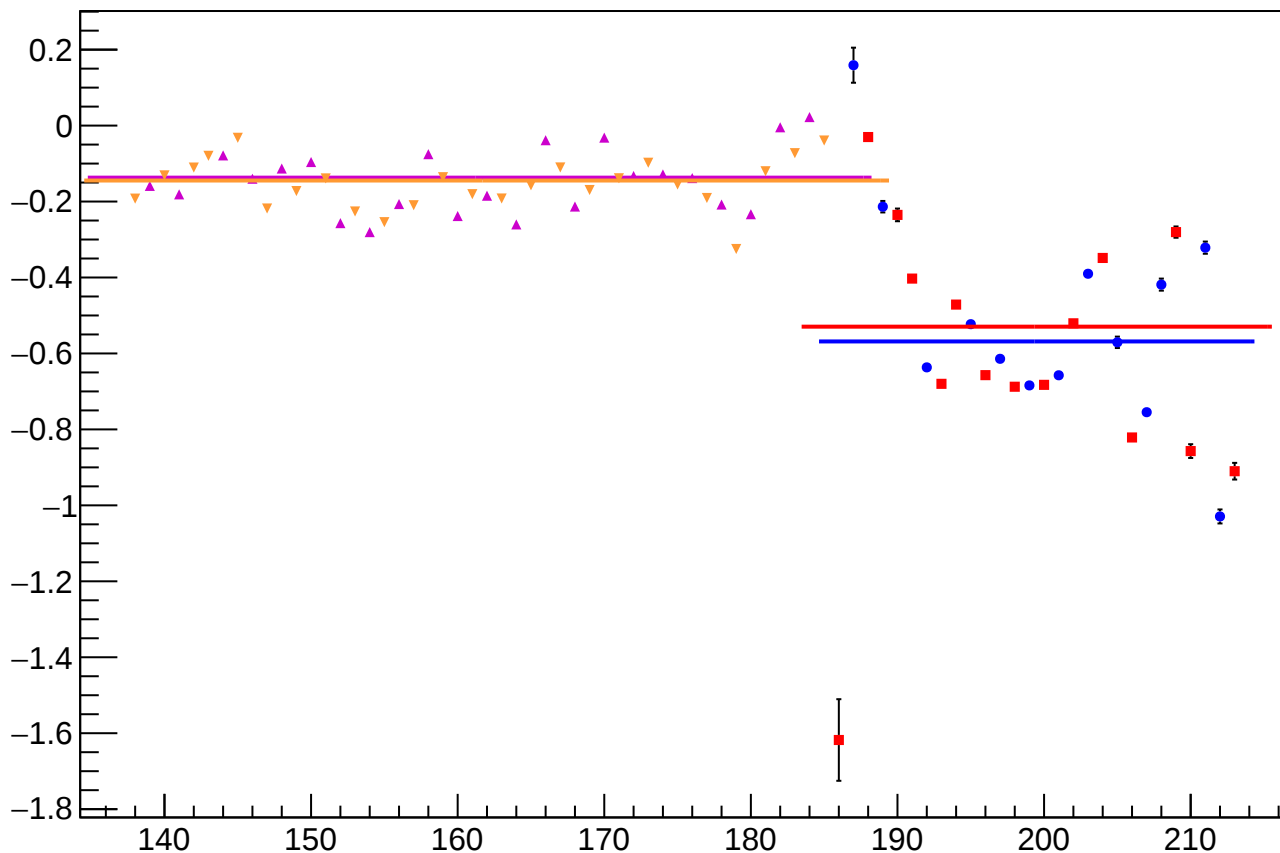
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.839 ± 0.095 $\chi^2/\text{NDF}: 1273.0/12$
 Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$
 Right Out: 0.979 ± 0.089 $\chi^2/\text{NDF}: 5020.0/14$
 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: 0.914 ± 0.065 $\chi^2/\text{NDF}: 6294.1/27$
 In: 15.213 ± 0.023 $\chi^2/\text{NDF}: 67952.0/35$
 Out: 15.576 ± 0.022 $\chi^2/\text{NDF}: 87569.4/39$
 All: 15.398 ± 0.016 $\chi^2/\text{NDF}: 155650.2/75$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.568 ± 0.003 χ^2/NDF : 2638.4/12

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.529 ± 0.003 χ^2/NDF : 5485.4/14

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

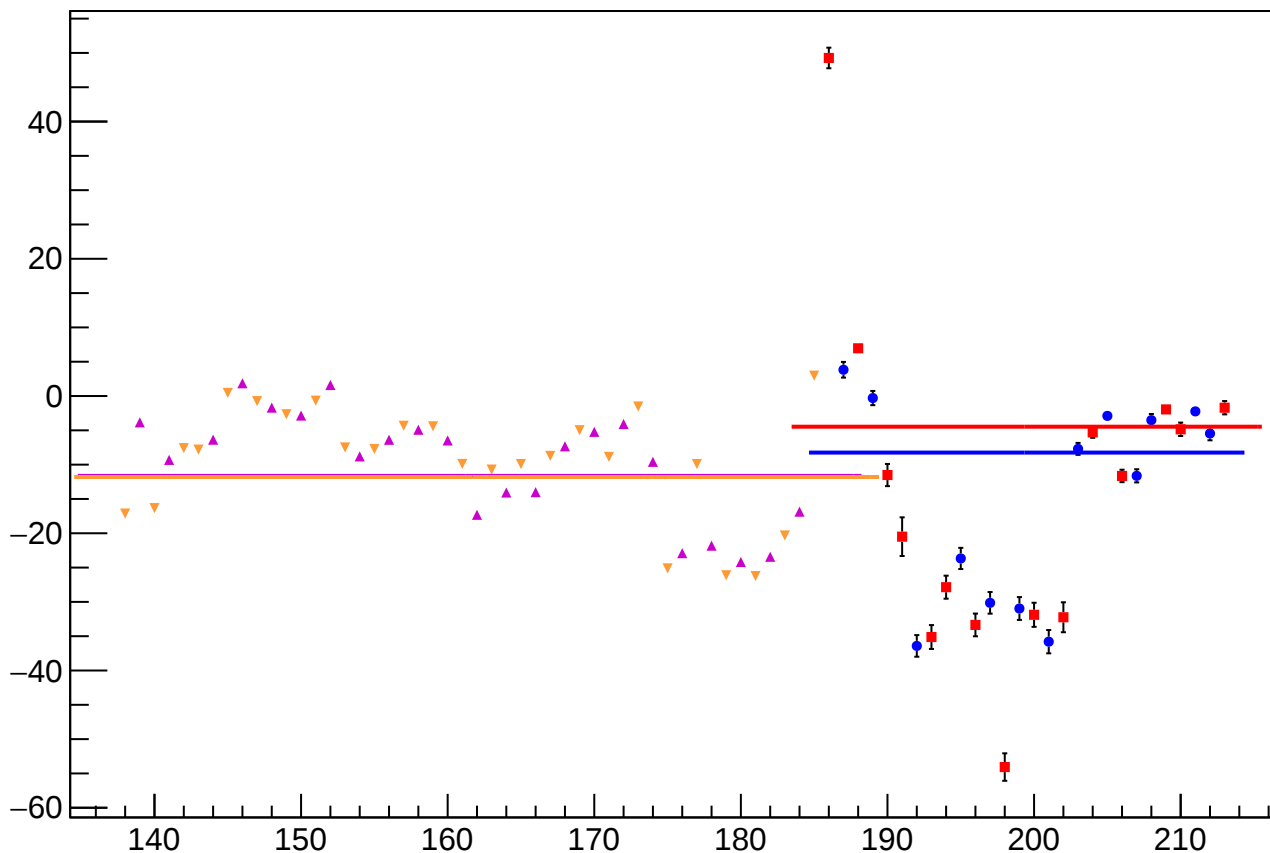
Right: -0.547 ± 0.002 χ^2/NDF : 8196.2/27

In: -0.177 ± 0.001 χ^2/NDF : 22987.3/35

Out: -0.184 ± 0.001 χ^2/NDF : 23053.6/39

All: -0.181 ± 0.001 χ^2/NDF : 46069.3/75

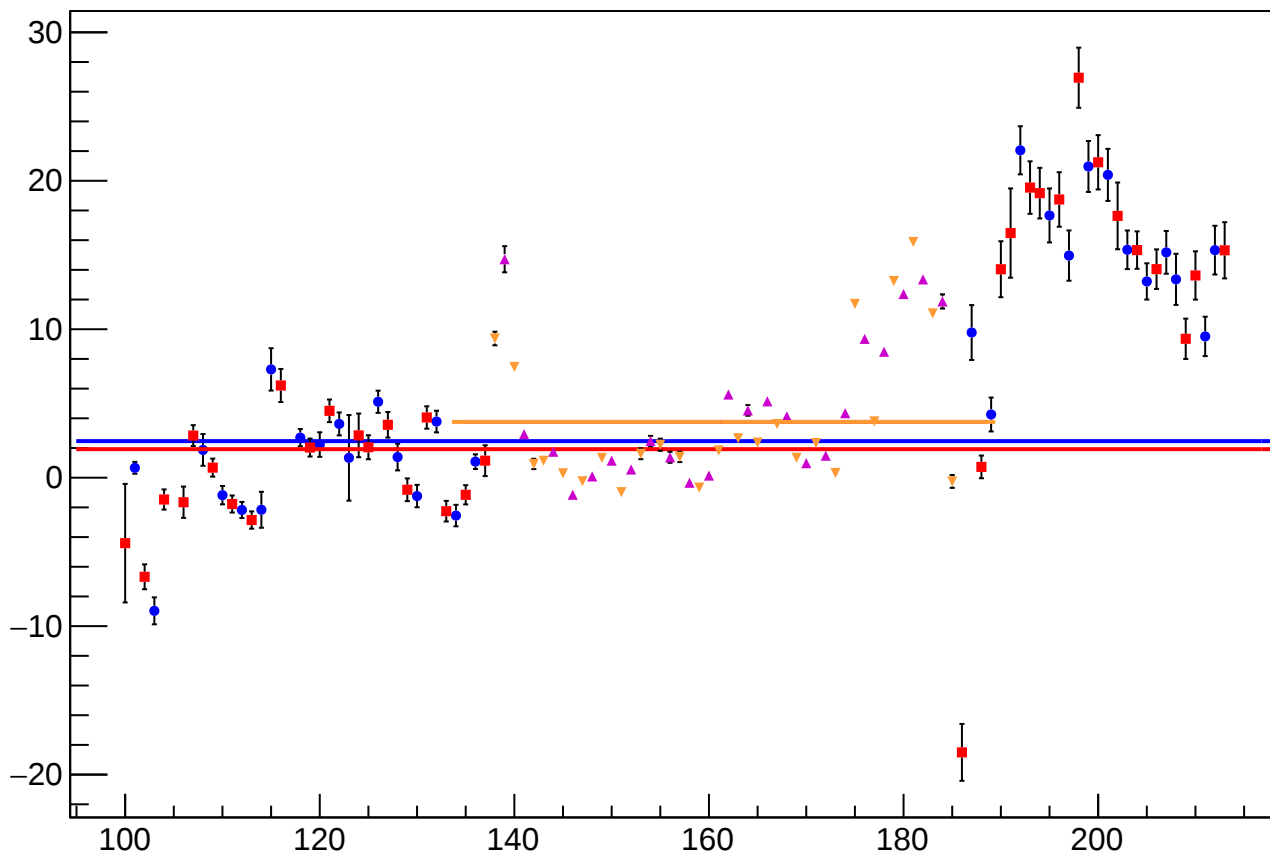
reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.241 ± 0.287 $\chi^2/\text{NDF}: 1405.7/12$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -4.470 ± 0.276 $\chi^2/\text{NDF}: 3701.6/14$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$
 Right: -6.286 ± 0.199 $\chi^2/\text{NDF}: 5196.9/27$
 In: -11.442 ± 0.069 $\chi^2/\text{NDF}: 15659.3/35$
 Out: -11.356 ± 0.068 $\chi^2/\text{NDF}: 21670.7/39$
 All: -11.398 ± 0.049 $\chi^2/\text{NDF}: 37330.8/75$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.463 ± 0.158 $\chi^2/\text{NDF}: 1306.2/29$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 1.922 ± 0.160 $\chi^2/\text{NDF}: 1476.5/33$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

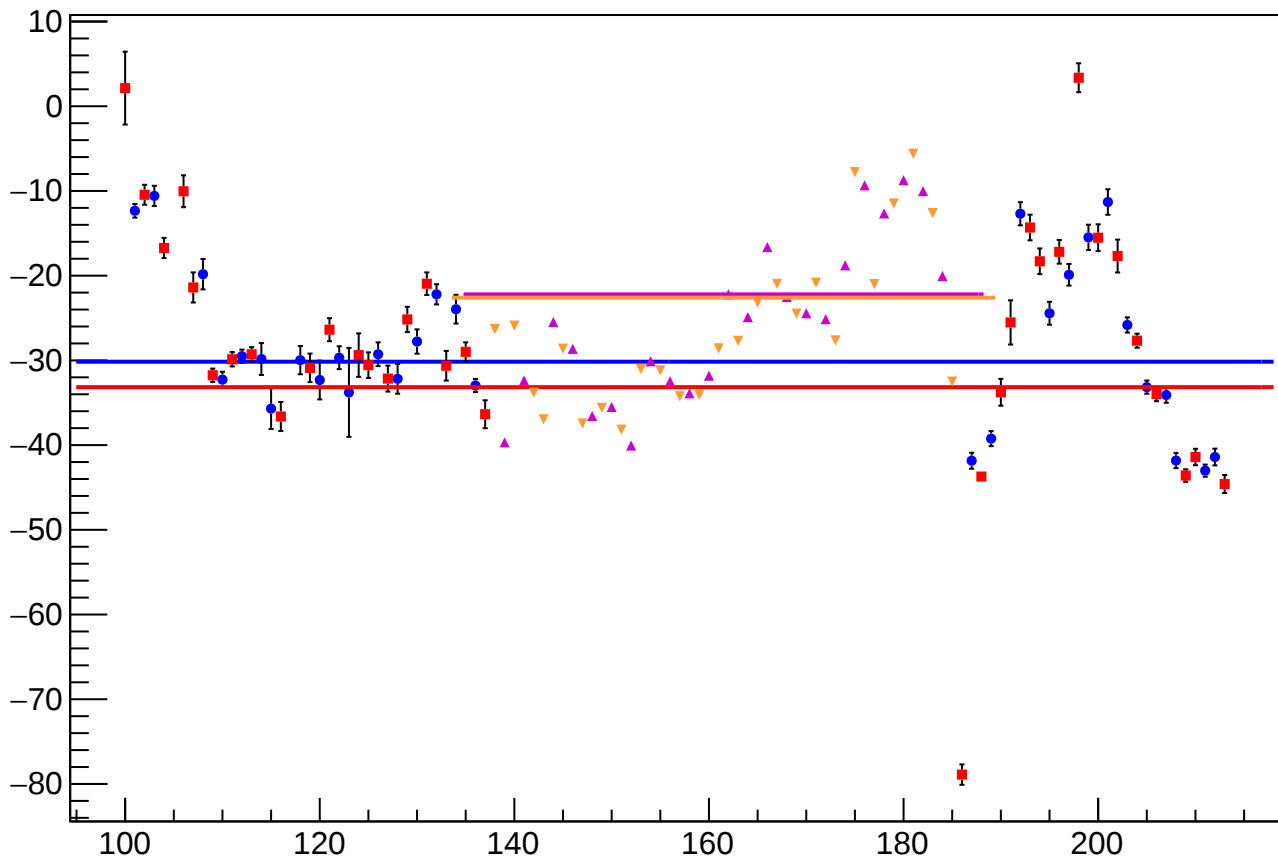
Right: 2.196 ± 0.112 $\chi^2/\text{NDF}: 2788.5/63$

In: 3.609 ± 0.053 $\chi^2/\text{NDF}: 6995.3/52$

Out: 3.559 ± 0.052 $\chi^2/\text{NDF}: 9044.8/58$

All: 3.584 ± 0.037 $\chi^2/\text{NDF}: 16040.5/111$

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -30.156 $\pm$ 0.203 χ^2 /NDF: 2317.8/29

Left Out: -22.598 $\pm$ 0.071 χ^2 /NDF:19933.4/24

Right Out: -33.160 $\pm$ 0.193 χ^2 /NDF: 4539.1/33

Left In: -22.209 $\pm$ 0.072 χ^2 /NDF:17627.4/22

Left: -22.406 $\pm$ 0.050 χ^2 /NDF: 37575.6/47

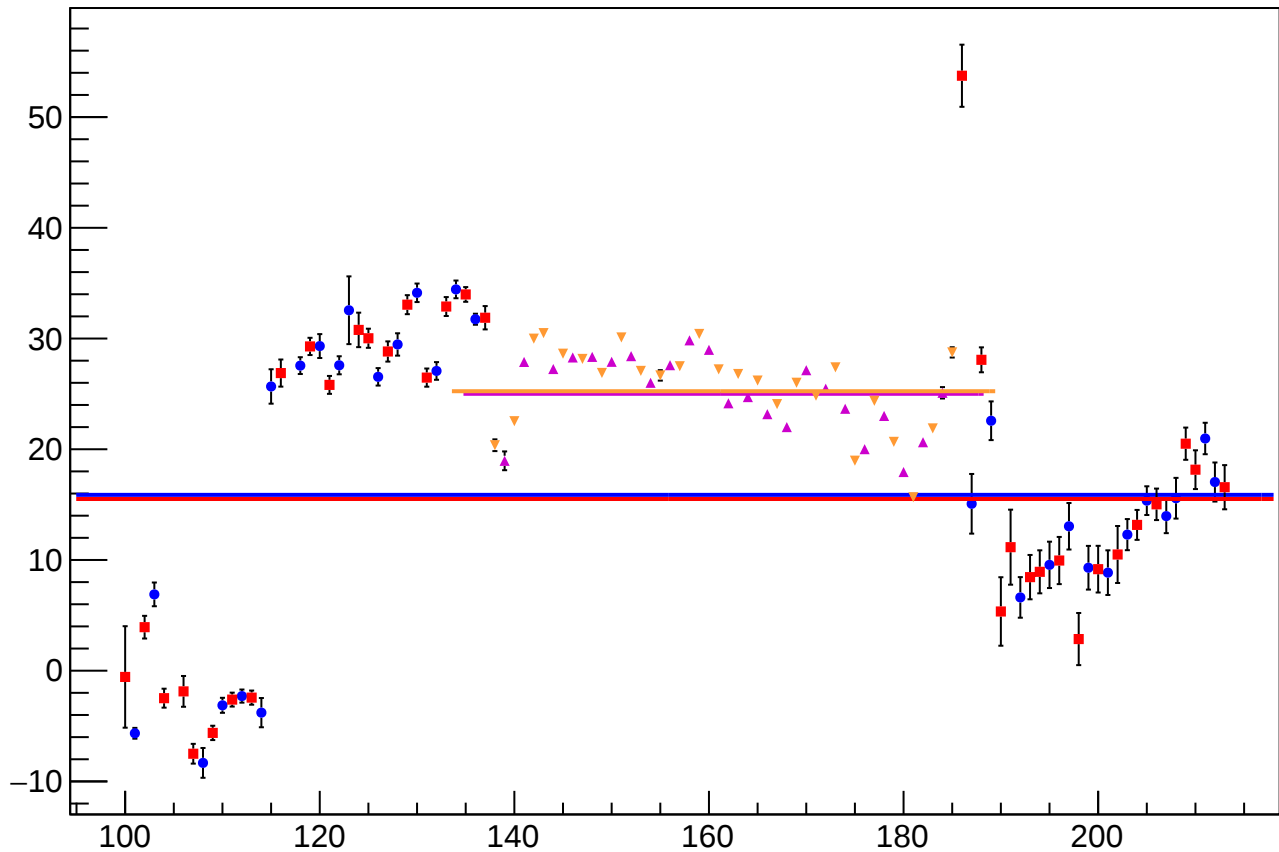
Right: -31.731 $\pm$ 0.140 χ^2 /NDF: 6972.0/63

In: -23.090 $\pm$ 0.068 χ^2 /NDF:21310.5/52

Out: -23.846 $\pm$ 0.066 χ^2 /NDF:27110.2/58

All: -23.474 $\pm$ 0.047 χ^2 /NDF: 48484.5/111

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.881 $\pm$ 0.179 χ^2 /NDF: 7639.6/29

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.507 $\pm$ 0.182 χ^2 /NDF: 7675.6/33

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

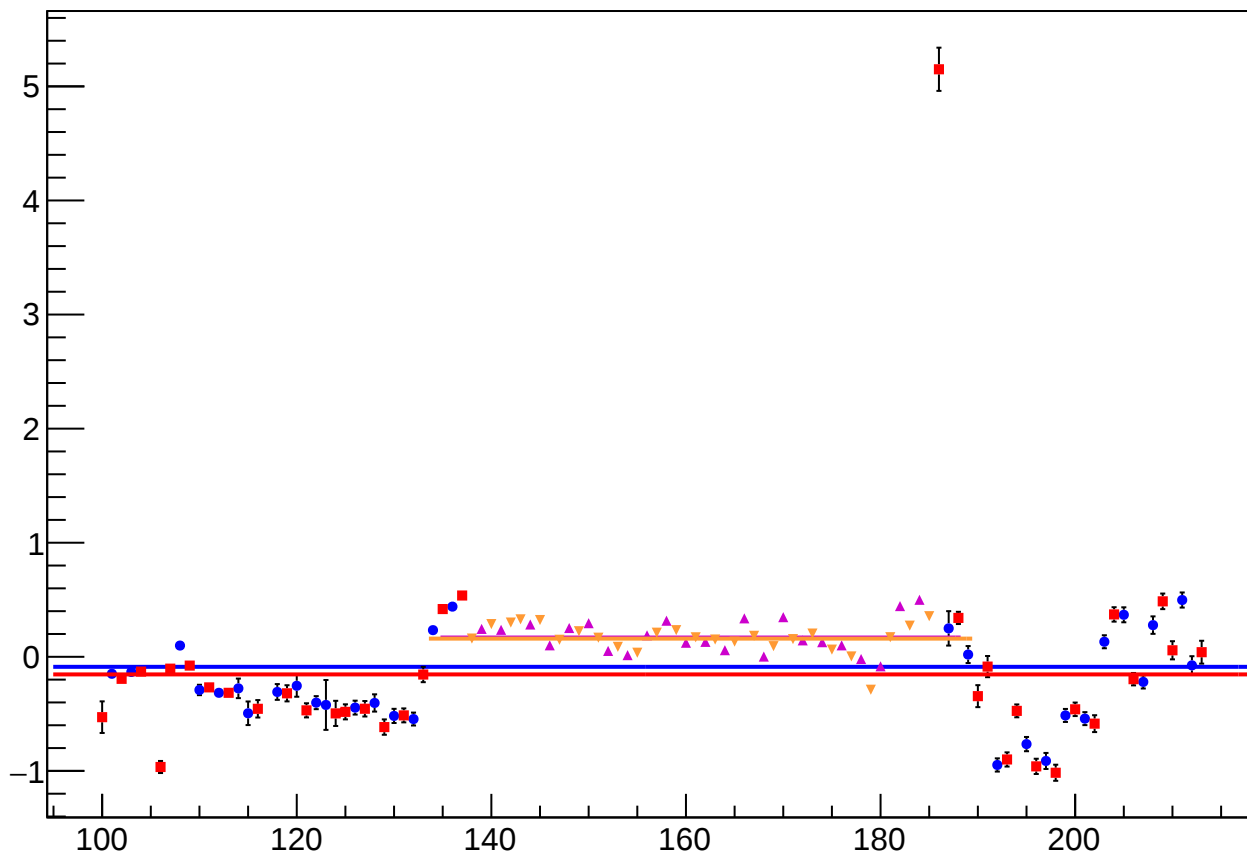
Right: 15.698 $\pm$ 0.127 χ^2 /NDF: 15317.4/63

In: 23.974 $\pm$ 0.060 χ^2 /NDF:12678.8/52

Out: 24.212 $\pm$ 0.059 χ^2 /NDF:14018.3/58

All: 24.095 $\pm$ 0.042 χ^2 /NDF: 26705.1/111

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.088 ± 0.009 χ^2/NDF : 1809.7/29

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.154 ± 0.009 χ^2/NDF : 2738.5/33

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

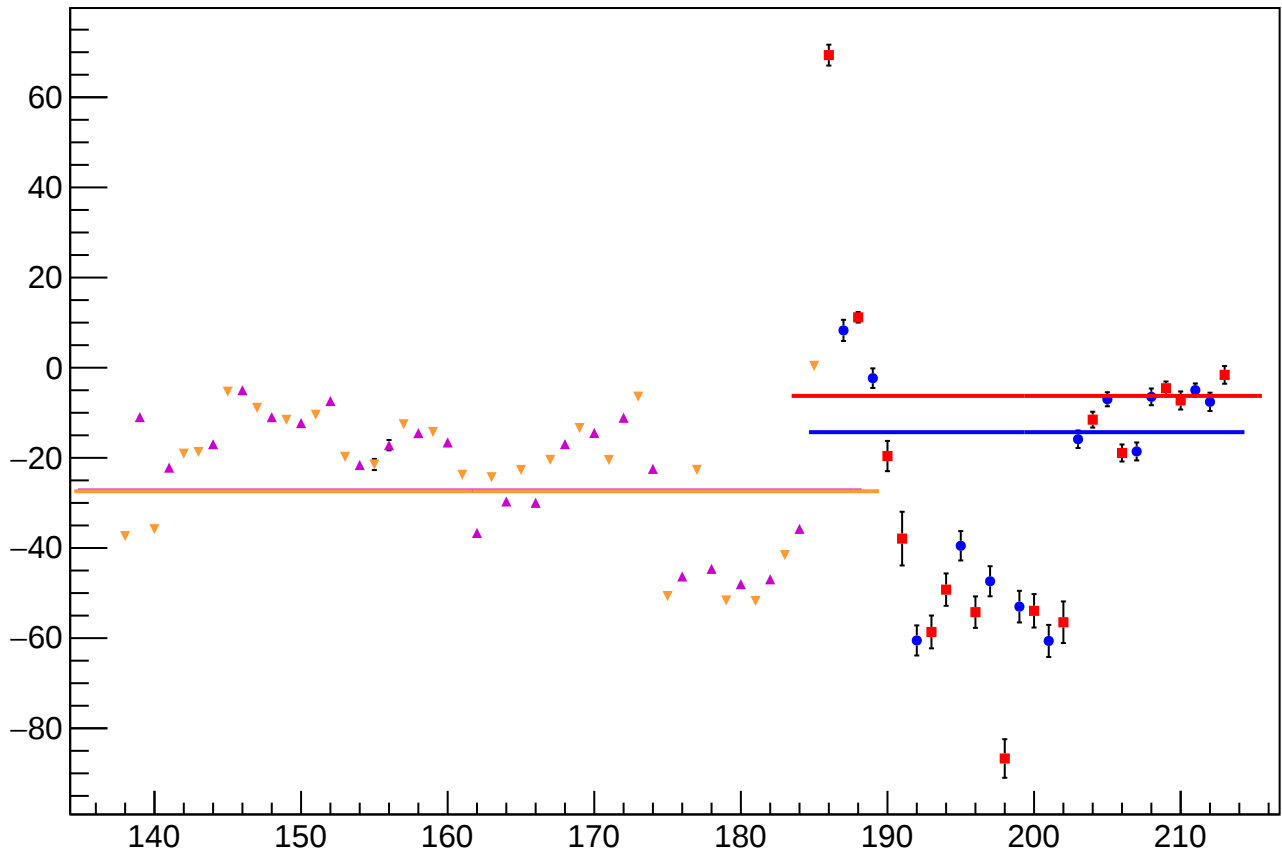
Right: -0.121 ± 0.006 χ^2/NDF : 4575.5/63

In: 0.145 ± 0.003 χ^2/NDF : 4964.9/52

Out: 0.130 ± 0.003 χ^2/NDF : 5710.3/58

All: 0.137 ± 0.002 χ^2/NDF : 10688.4/111

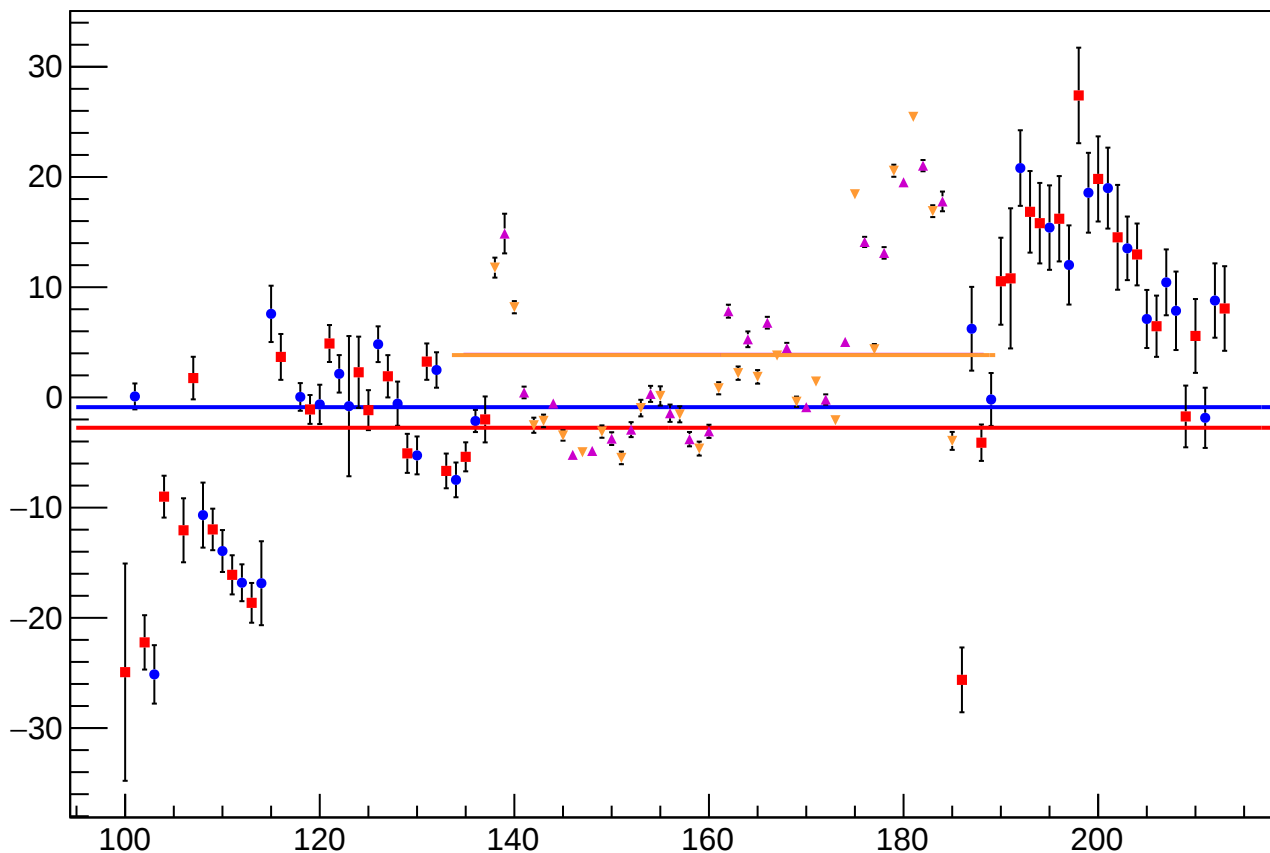
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.302 ± 0.604 $\chi^2/\text{NDF}: 859.4/12$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -6.256 ± 0.576 $\chi^2/\text{NDF}: 2569.9/14$
 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: -10.092 ± 0.417 $\chi^2/\text{NDF}: 3522.3/27$
 In: -26.588 ± 0.136 $\chi^2/\text{NDF}: 12600.9/35$
 Out: -26.279 ± 0.133 $\chi^2/\text{NDF}: 18695.9/39$
 All: -26.430 ± 0.095 $\chi^2/\text{NDF}: 31299.4/75$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.884 ± 0.373 χ^2/NDF : 503.5/29

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -2.753 ± 0.379 χ^2/NDF : 625.4/33

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

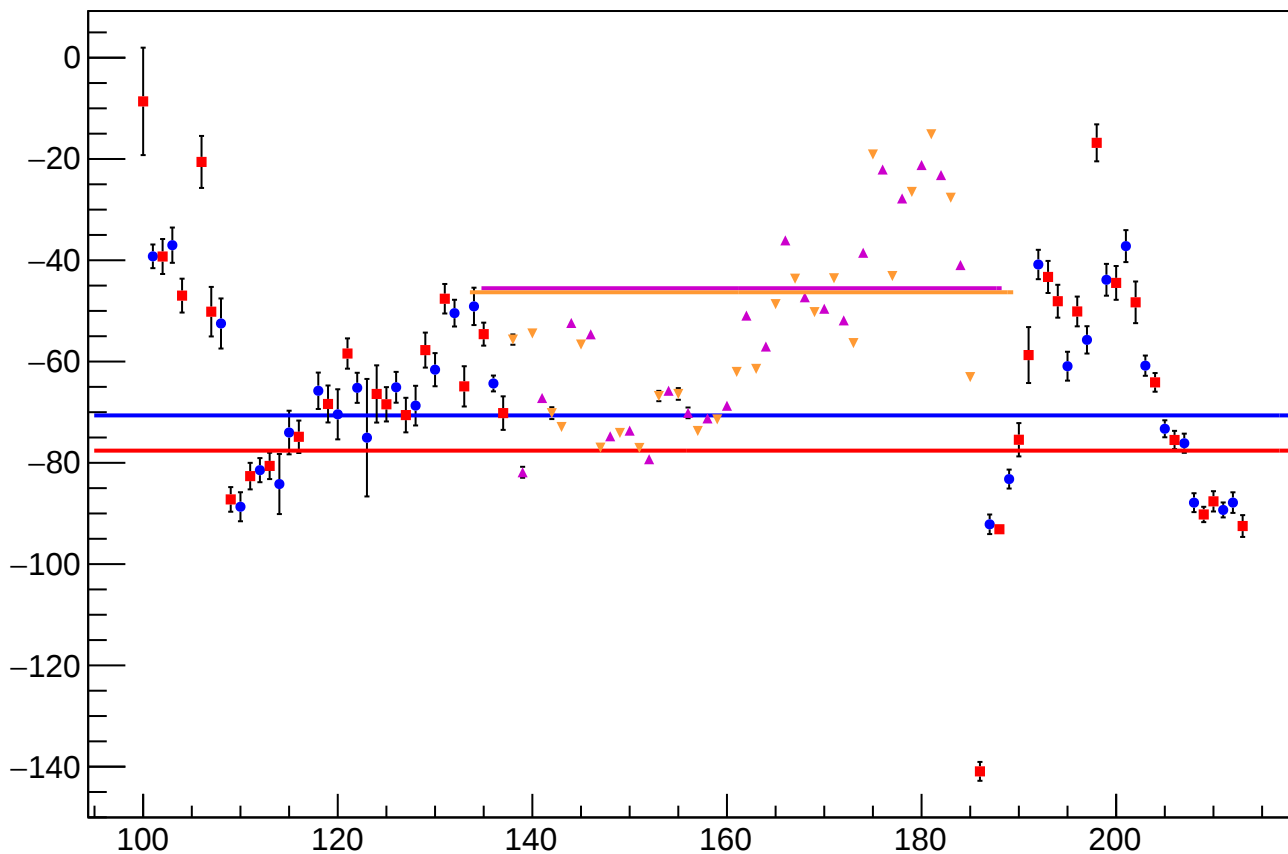
Right: -1.803 ± 0.266 χ^2/NDF : 1141.3/63

In: 3.478 ± 0.107 χ^2/NDF : 6076.7/52

Out: 3.335 ± 0.105 χ^2/NDF : 7844.5/58

All: 3.405 ± 0.075 χ^2/NDF : 13922.2/111

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -70.636 ± 0.455 χ^2/NDF : 1332.0/29

Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24

Right Out: -77.591 ± 0.432 χ^2/NDF : 3098.9/33

Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47

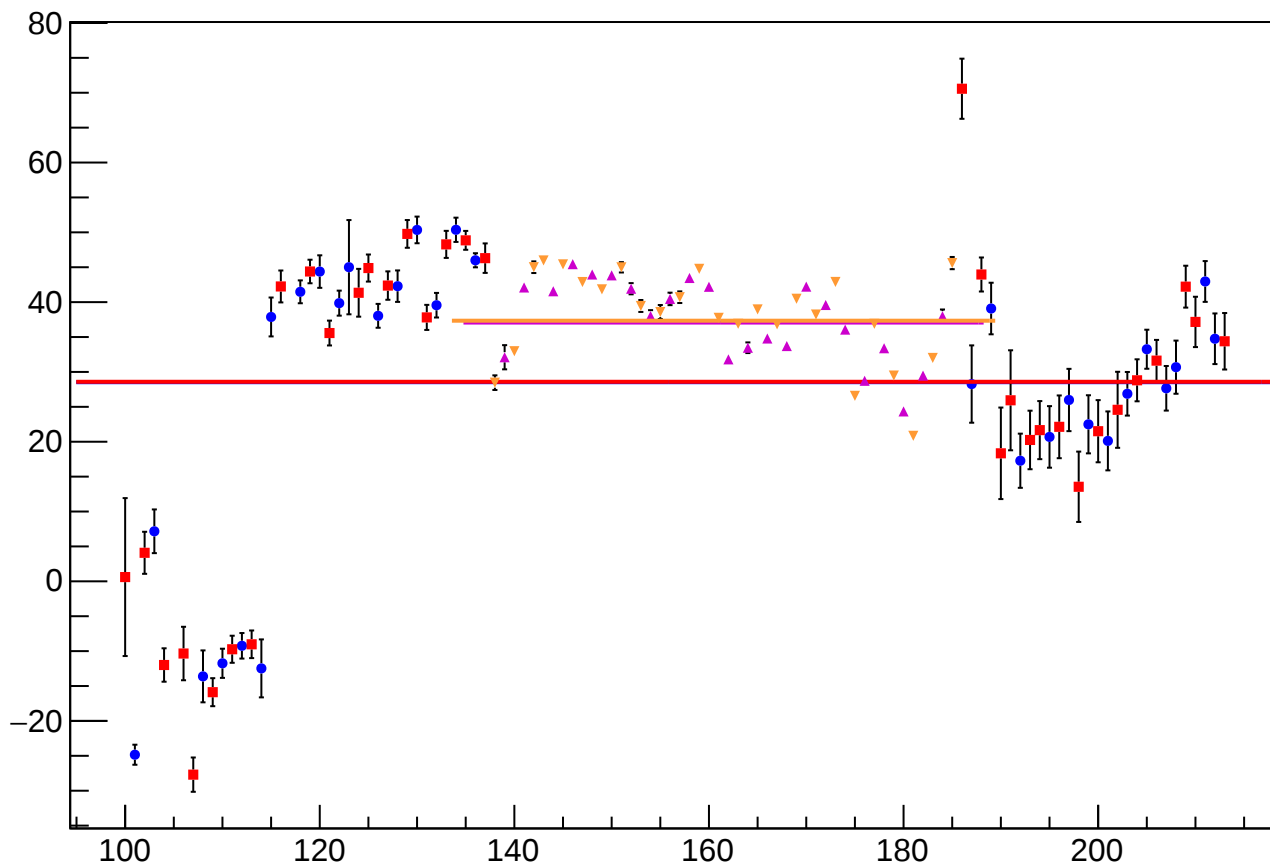
Right: -74.295 ± 0.313 χ^2/NDF : 4553.7/63

In: -47.684 ± 0.134 χ^2/NDF : 21638.3/52

Out: -49.210 ± 0.131 χ^2/NDF : 27987.0/58

All: -48.459 ± 0.094 χ^2/NDF : 49691.6/111

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.529 $\pm$ 0.419 χ^2 /NDF: 3368.2/29

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.590 $\pm$ 0.431 χ^2 /NDF: 3225.1/33

Left In: 37.074 $\pm$ 0.125 χ^2 /NDF:2397.3/22

Left: 37.209 $\pm$ 0.088 χ^2 /NDF: 5548.7/47

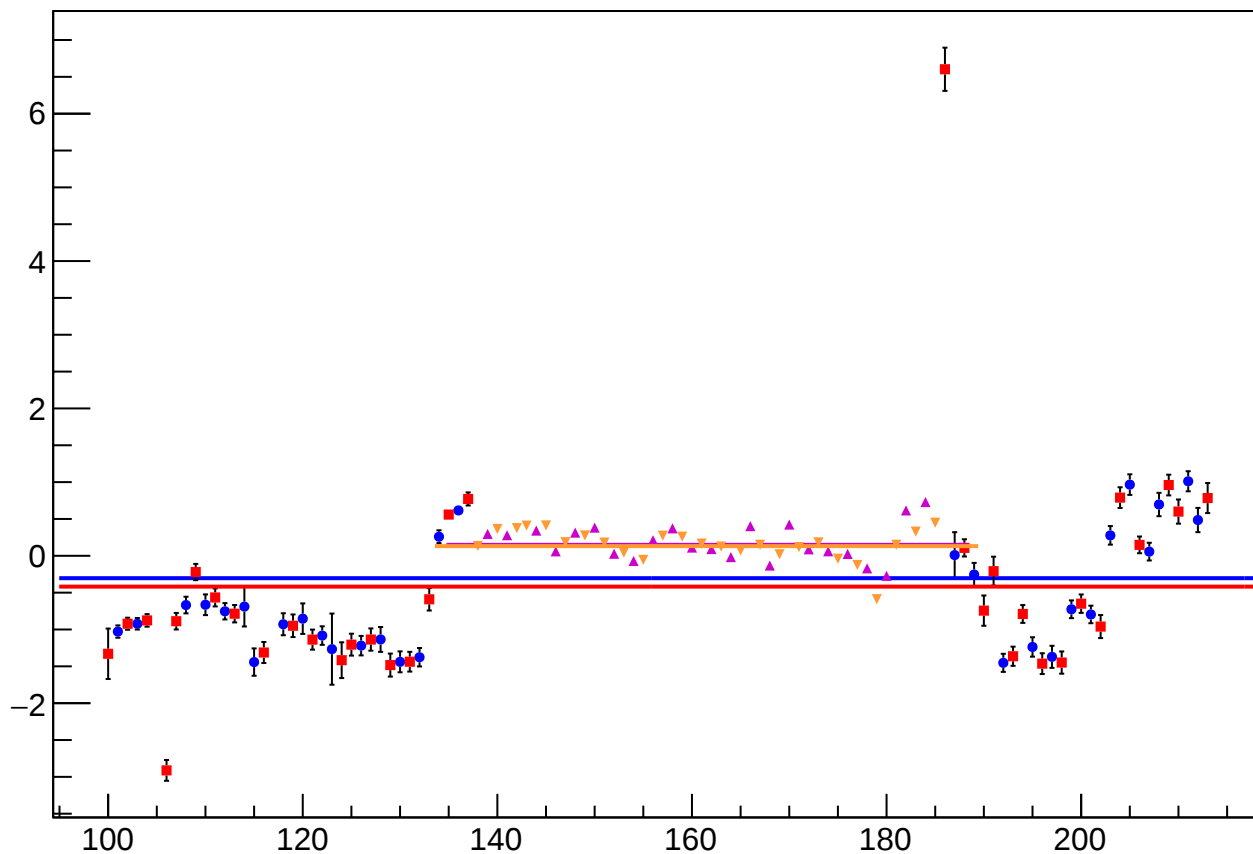
Right: 28.559 $\pm$ 0.301 χ^2 /NDF: 6593.4/63

In: 36.375 $\pm$ 0.120 χ^2 /NDF:6146.8/52

Out: 36.684 $\pm$ 0.118 χ^2 /NDF:6754.7/58

All: 36.531 $\pm$ 0.084 χ^2 /NDF: 12904.8/111

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.304 ± 0.021 χ^2/NDF : 1498.7/29

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.418 ± 0.021 χ^2/NDF : 2217.2/33

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

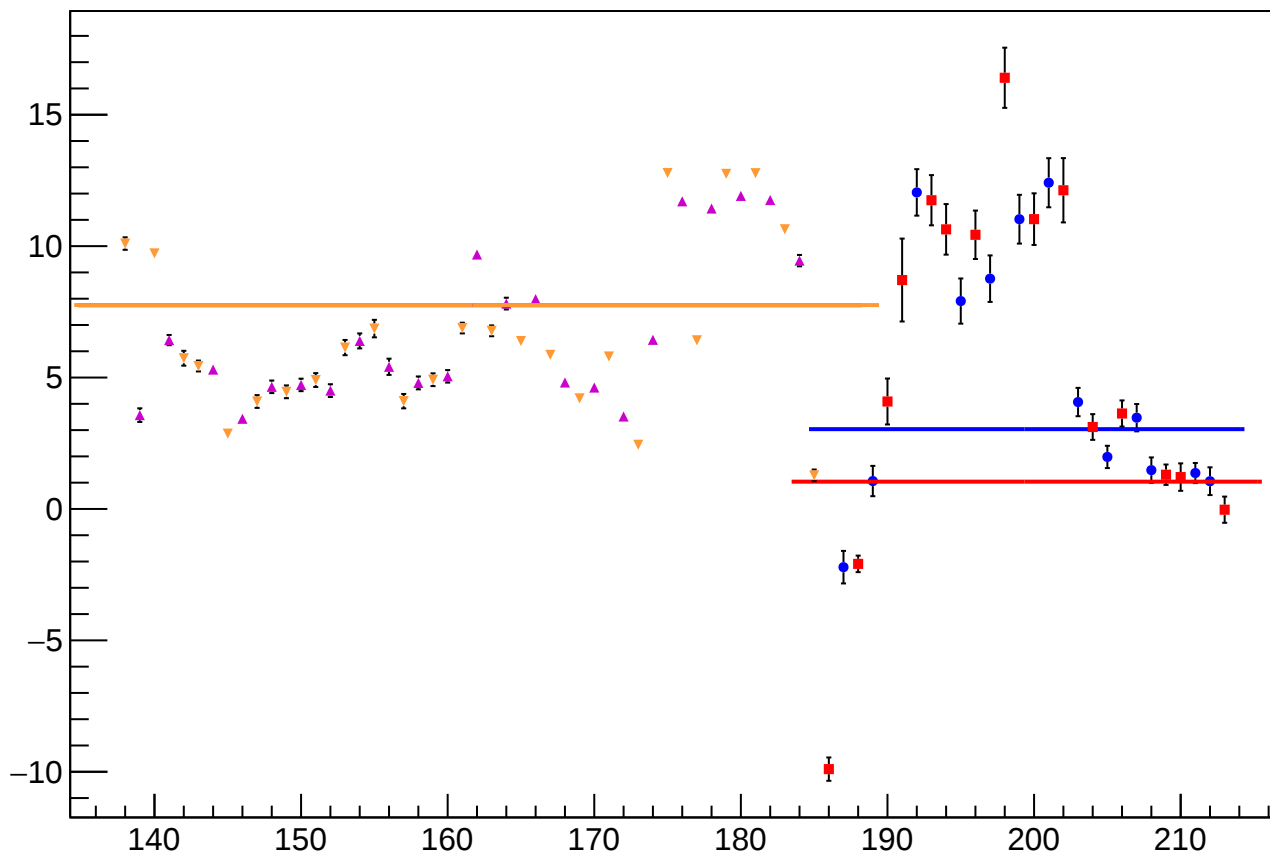
Right: -0.360 ± 0.015 χ^2/NDF : 3730.6/63

In: 0.117 ± 0.006 χ^2/NDF : 3735.5/52

Out: 0.095 ± 0.005 χ^2/NDF : 4265.8/58

All: 0.106 ± 0.004 χ^2/NDF : 8009.2/111

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.036 $\pm$ 0.160 χ^2 /NDF: 490.3/12

Left Out: 7.757 $\pm$ 0.034 χ^2 /NDF:11728.6/24

Right Out: 1.039 $\pm$ 0.149 χ^2 /NDF: 1486.2/14

Left In: 7.753 $\pm$ 0.035 χ^2 /NDF:8345.2/22

Left: 7.755 $\pm$ 0.025 χ^2 /NDF: 20073.8/47

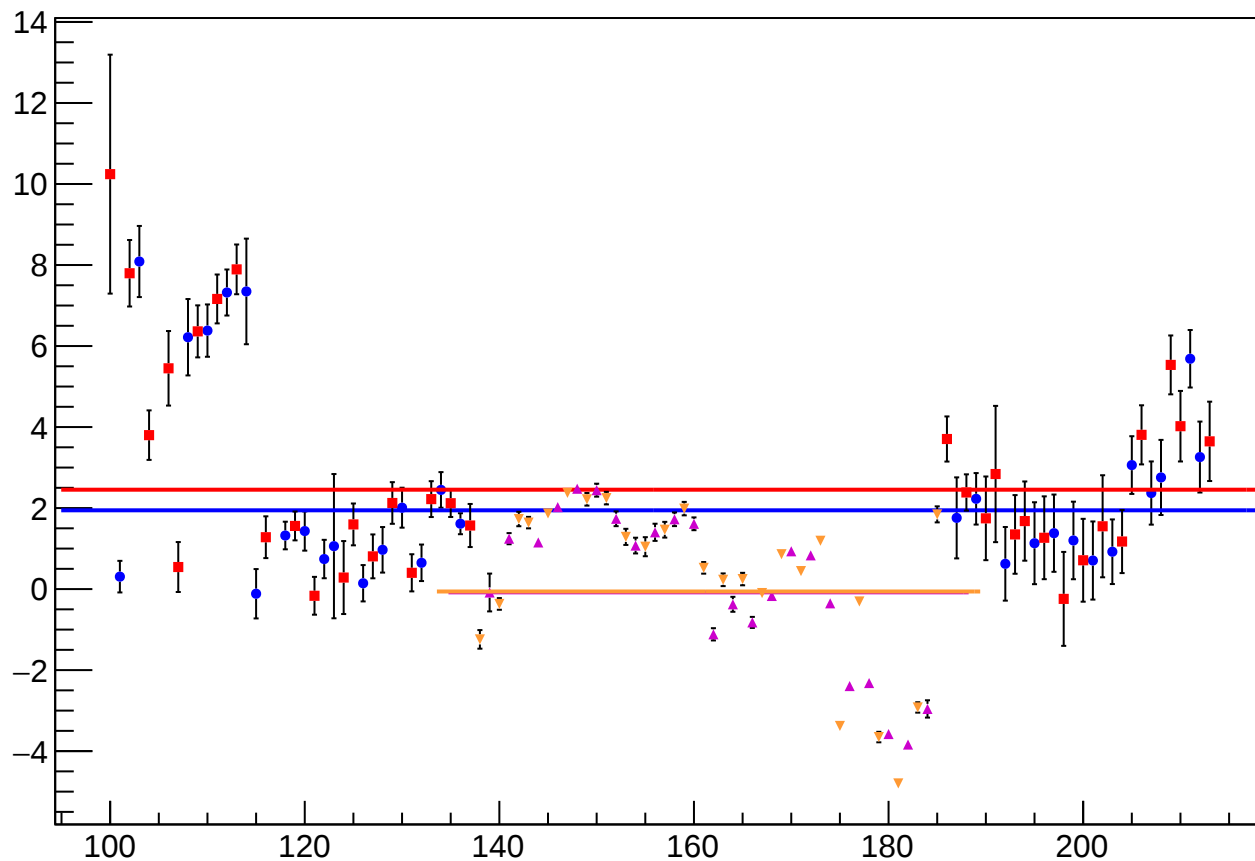
Right: 1.965 $\pm$ 0.109 χ^2 /NDF: 2060.4/27

In: 7.536 $\pm$ 0.034 χ^2 /NDF:9667.2/35

Out: 7.416 $\pm$ 0.033 χ^2 /NDF:15155.1/39

All: 7.475 $\pm$ 0.024 χ^2 /NDF: 24828.5/75

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.945 $\pm$ 0.105 χ^2 /NDF: 334.7/29

Left Out: -0.059 $\pm$ 0.028 χ^2 /NDF:6068.8/24

Right Out: 2.453 $\pm$ 0.106 χ^2 /NDF: 382.5/33

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

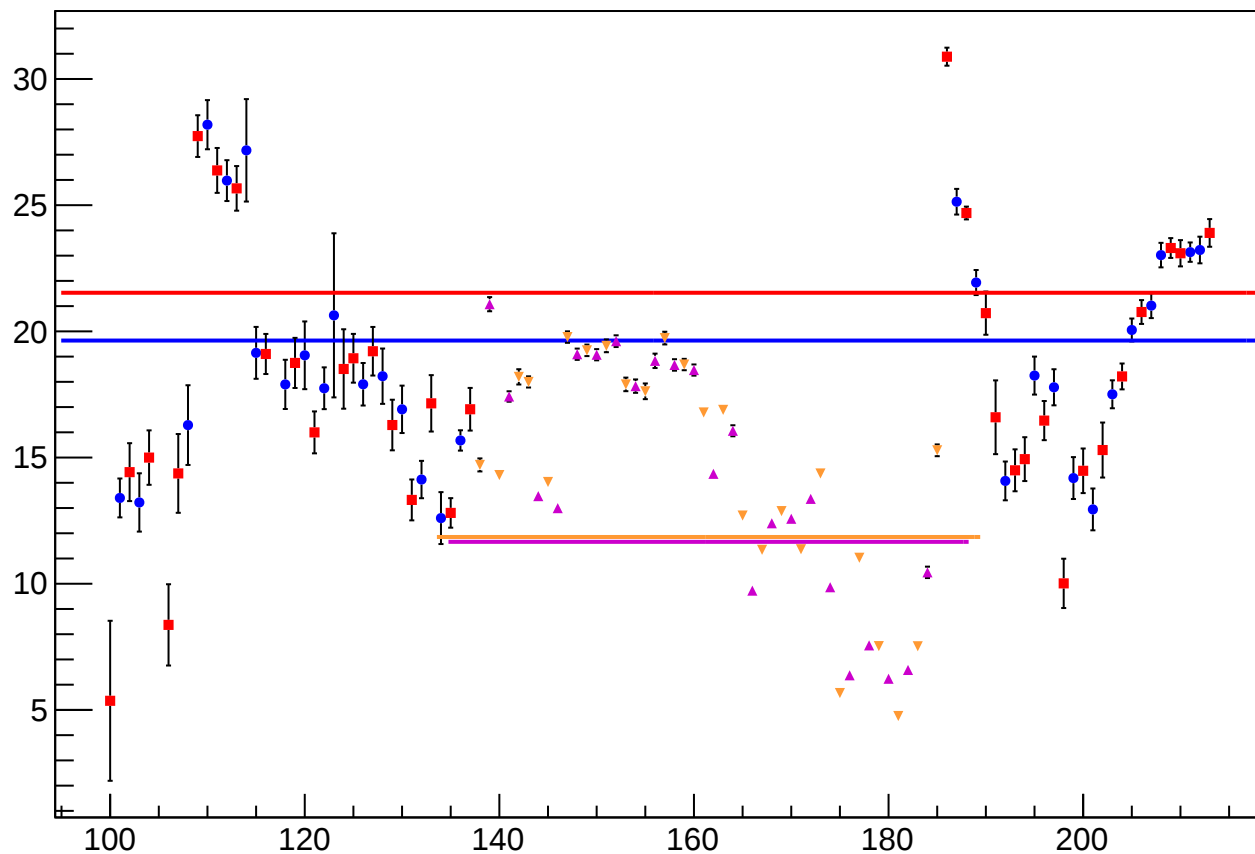
Right: 2.196 $\pm$ 0.074 χ^2 /NDF: 728.8/63

In: 0.057 $\pm$ 0.027 χ^2 /NDF:5662.9/52

Out: 0.102 $\pm$ 0.027 χ^2 /NDF:6977.5/58

All: 0.080 $\pm$ 0.019 χ^2 /NDF: 12641.8/111

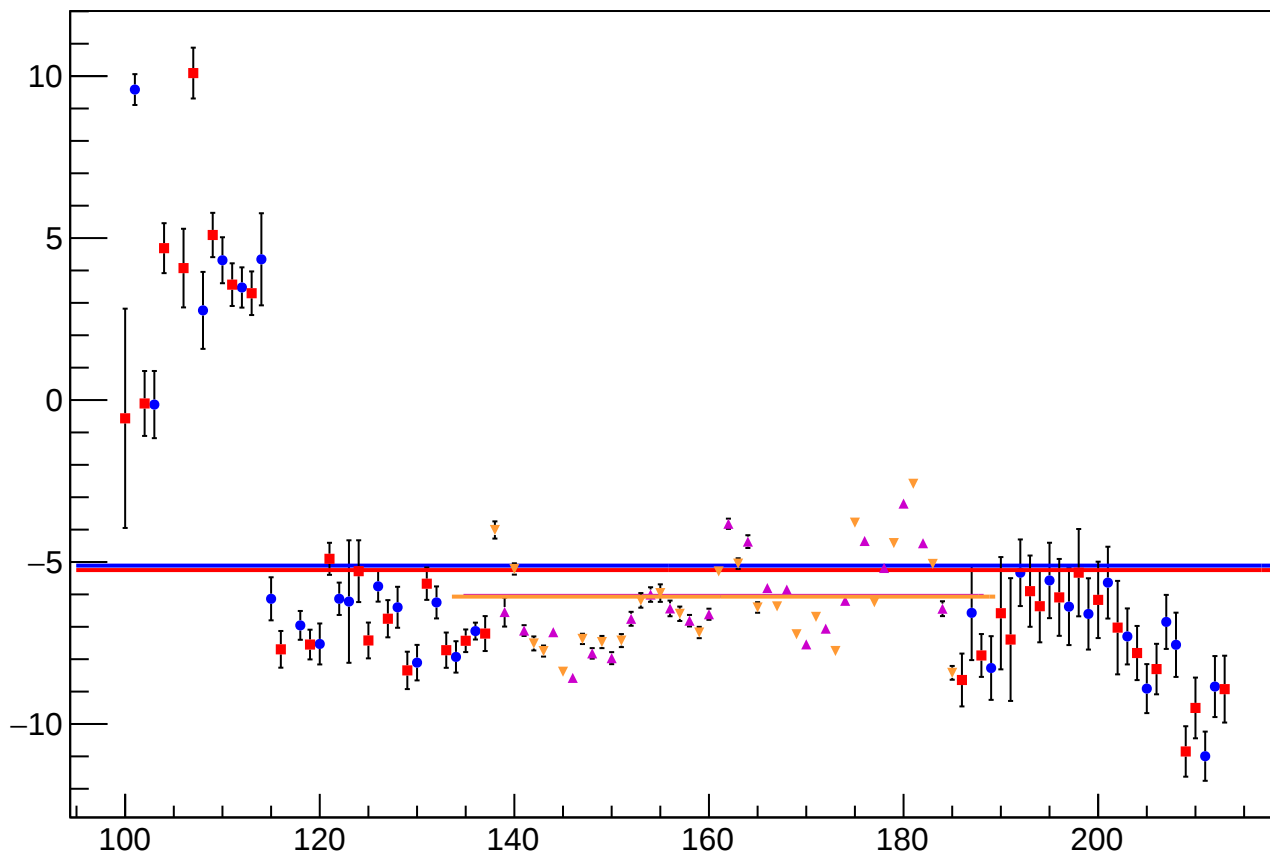
reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.636 ± 0.124 $\chi^2/\text{NDF}: 985.6/29$
 Left Out: 11.853 ± 0.035 $\chi^2/\text{NDF}: 19149.4/24$
 Right Out: 21.530 ± 0.115 $\chi^2/\text{NDF}: 2126.3/33$
 Left In: 11.660 ± 0.035 $\chi^2/\text{NDF}: 16710.2/22$

Left: 11.758 ± 0.025 $\chi^2/\text{NDF}: 35874.9/47$
 Right: 20.652 ± 0.084 $\chi^2/\text{NDF}: 3237.1/63$
 In: 12.255 ± 0.034 $\chi^2/\text{NDF}: 21530.3/52$
 Out: 12.657 ± 0.033 $\chi^2/\text{NDF}: 27746.3/58$
 All: 12.460 ± 0.024 $\chi^2/\text{NDF}: 49348.5/111$

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.111 ± 0.117 $\chi^2/\text{NDF}: 1737.5/29$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -5.249 ± 0.121 $\chi^2/\text{NDF}: 1522.5/33$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

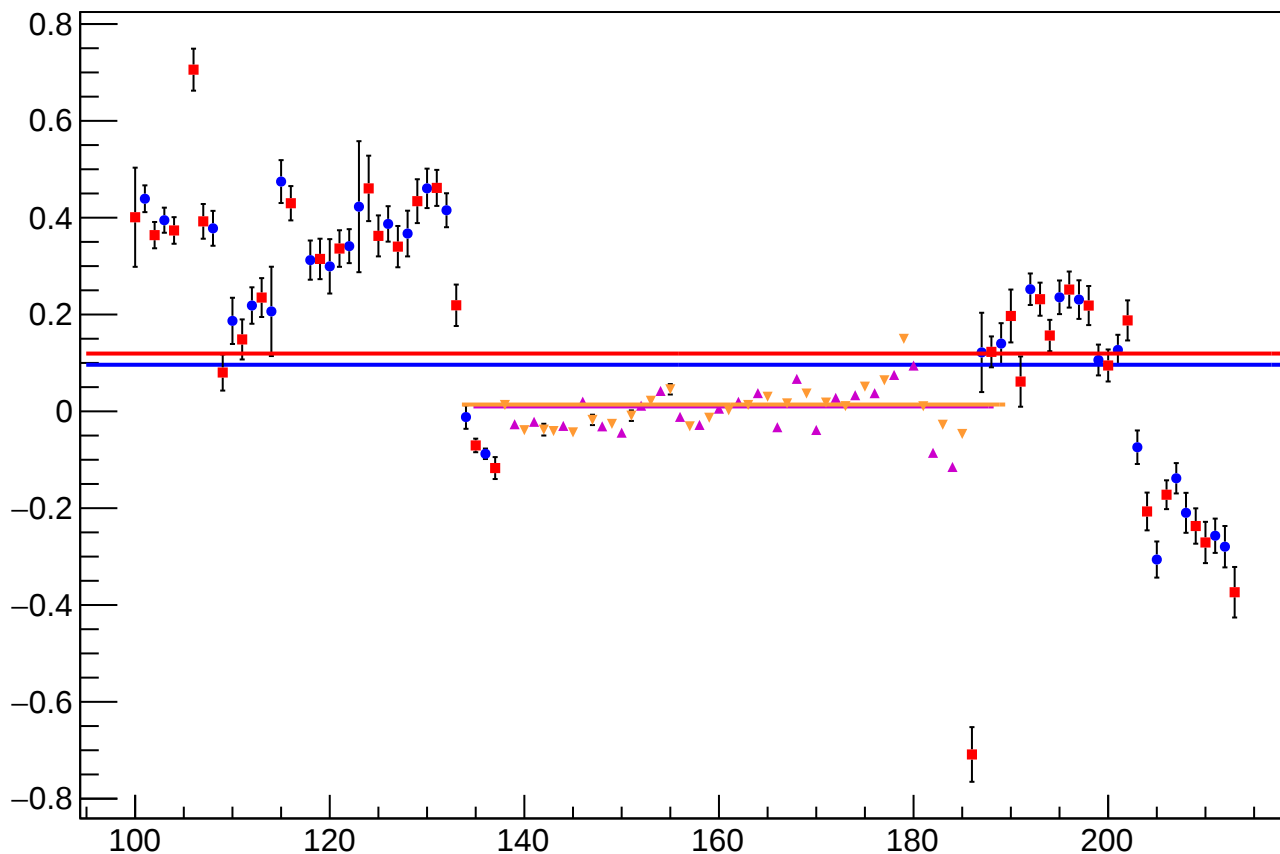
Right: -5.178 ± 0.084 $\chi^2/\text{NDF}: 3260.6/63$

In: -5.981 ± 0.031 $\chi^2/\text{NDF}: 4090.2/52$

Out: -6.017 ± 0.030 $\chi^2/\text{NDF}: 4237.3/58$

All: -6.000 ± 0.021 $\chi^2/\text{NDF}: 8328.2/111$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.096 $\pm$ 0.006 χ^2 /NDF: 1580.8/29

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.119 $\pm$ 0.006 χ^2 /NDF: 1758.5/33

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

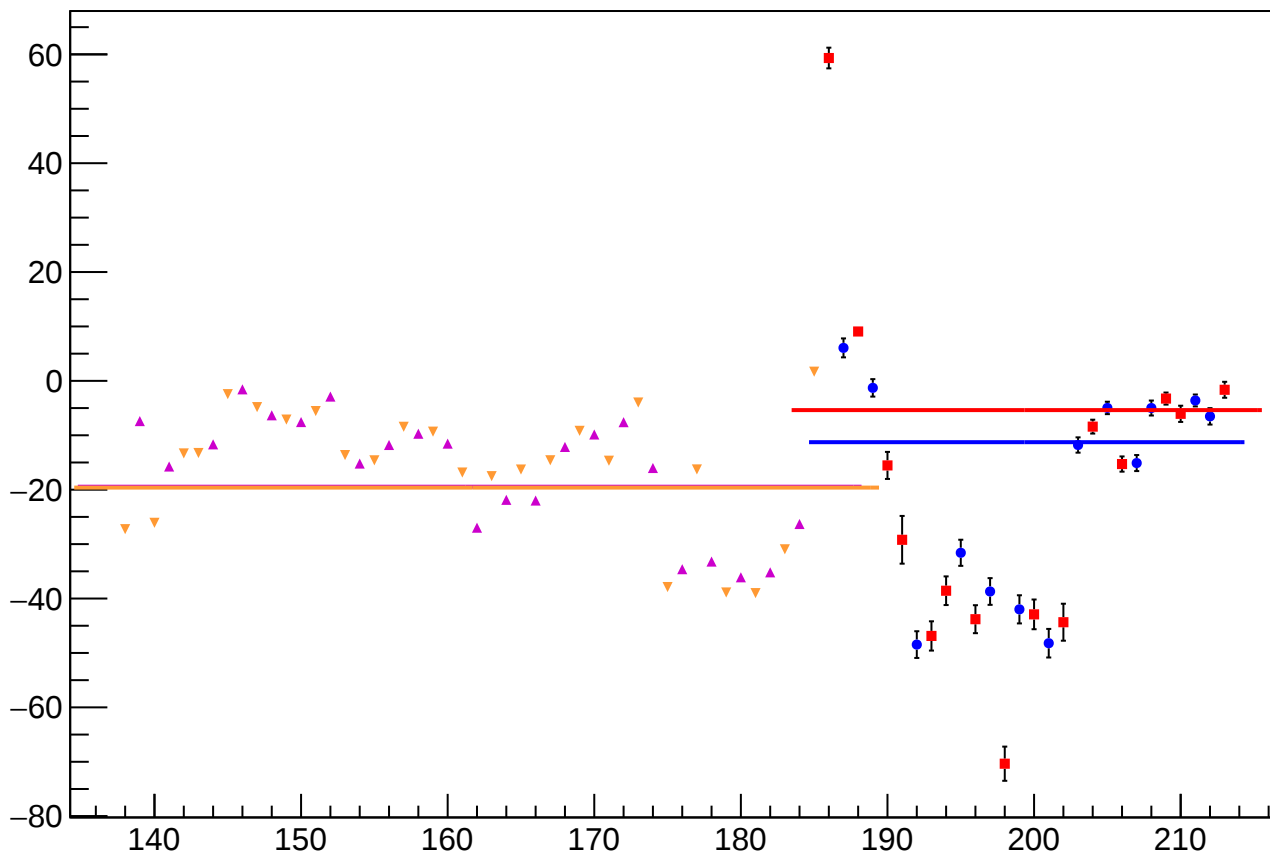
Right: 0.108 $\pm$ 0.004 χ^2 /NDF: 3347.0/63

In: 0.015 $\pm$ 0.001 χ^2 /NDF: 3003.6/52

Out: 0.020 $\pm$ 0.001 χ^2 /NDF: 3011.3/58

All: 0.018 $\pm$ 0.001 χ^2 /NDF: 6020.4/111

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.268 ± 0.445 $\chi^2/\text{NDF}: 1020.0/12$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: -5.373 ± 0.427 $\chi^2/\text{NDF}: 2930.5/14$
 Left In: -19.450 ± 0.105 $\chi^2/\text{NDF}: 12283.1/22$

Left: -19.533 ± 0.074 $\chi^2/\text{NDF}: 28045.6/47$

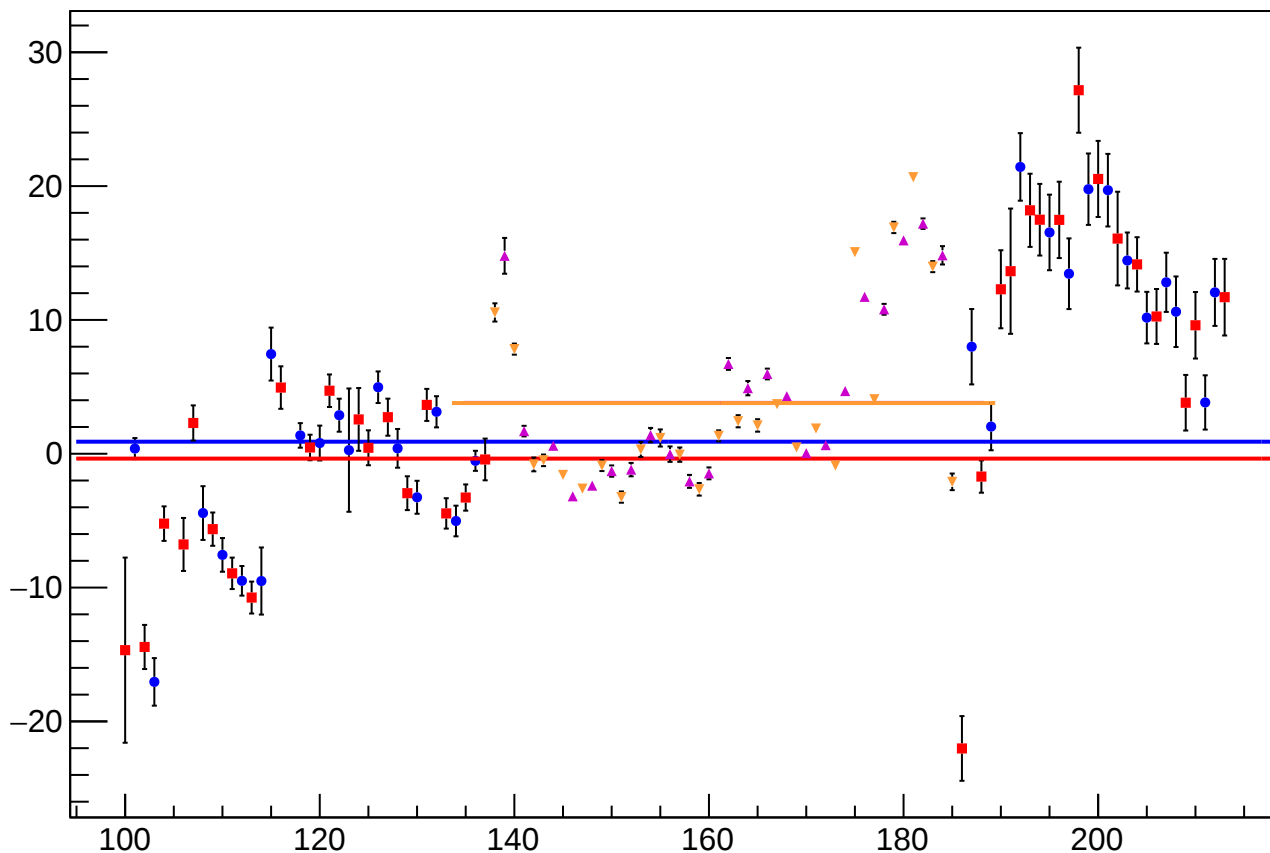
Right: -8.197 ± 0.308 $\chi^2/\text{NDF}: 4042.0/27$

In: -19.018 ± 0.102 $\chi^2/\text{NDF}: 13623.7/35$

Out: -18.825 ± 0.100 $\chi^2/\text{NDF}: 19744.4/39$

All: -18.919 ± 0.072 $\chi^2/\text{NDF}: 33369.9/75$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.901 ± 0.267 $\chi^2/\text{NDF}: 685.6/29$

Left Out: 3.788 ± 0.082 $\chi^2/\text{NDF}: 7150.5/24$

Right Out: -0.362 ± 0.271 $\chi^2/\text{NDF}: 832.2/33$

Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$

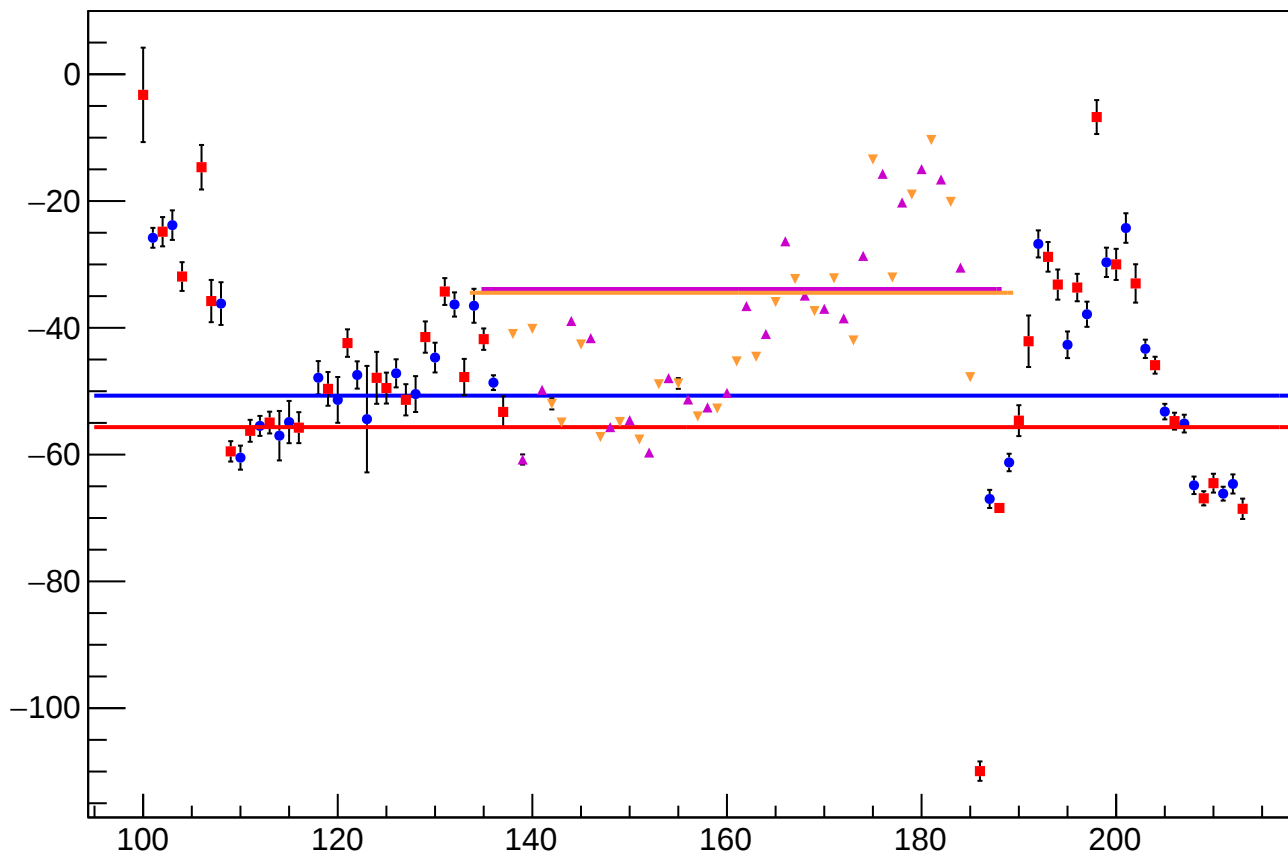
Right: 0.279 ± 0.190 $\chi^2/\text{NDF}: 1528.8/63$

In: 3.540 ± 0.080 $\chi^2/\text{NDF}: 6310.1/52$

Out: 3.439 ± 0.079 $\chi^2/\text{NDF}: 8197.7/58$

All: 3.489 ± 0.056 $\chi^2/\text{NDF}: 14508.6/111$

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -50.699+/-0.330 χ^2/NDF : 1555.1/29

Left Out: -34.471+/-0.104 χ^2/NDF : 20196.3/24

Right Out: -55.667+/-0.315 χ^2/NDF : 3480.4/33

Left In: -33.875+/-0.105 χ^2/NDF : 17638.7/22

Left: -34.177+/-0.074 χ^2/NDF : 37851.2/47

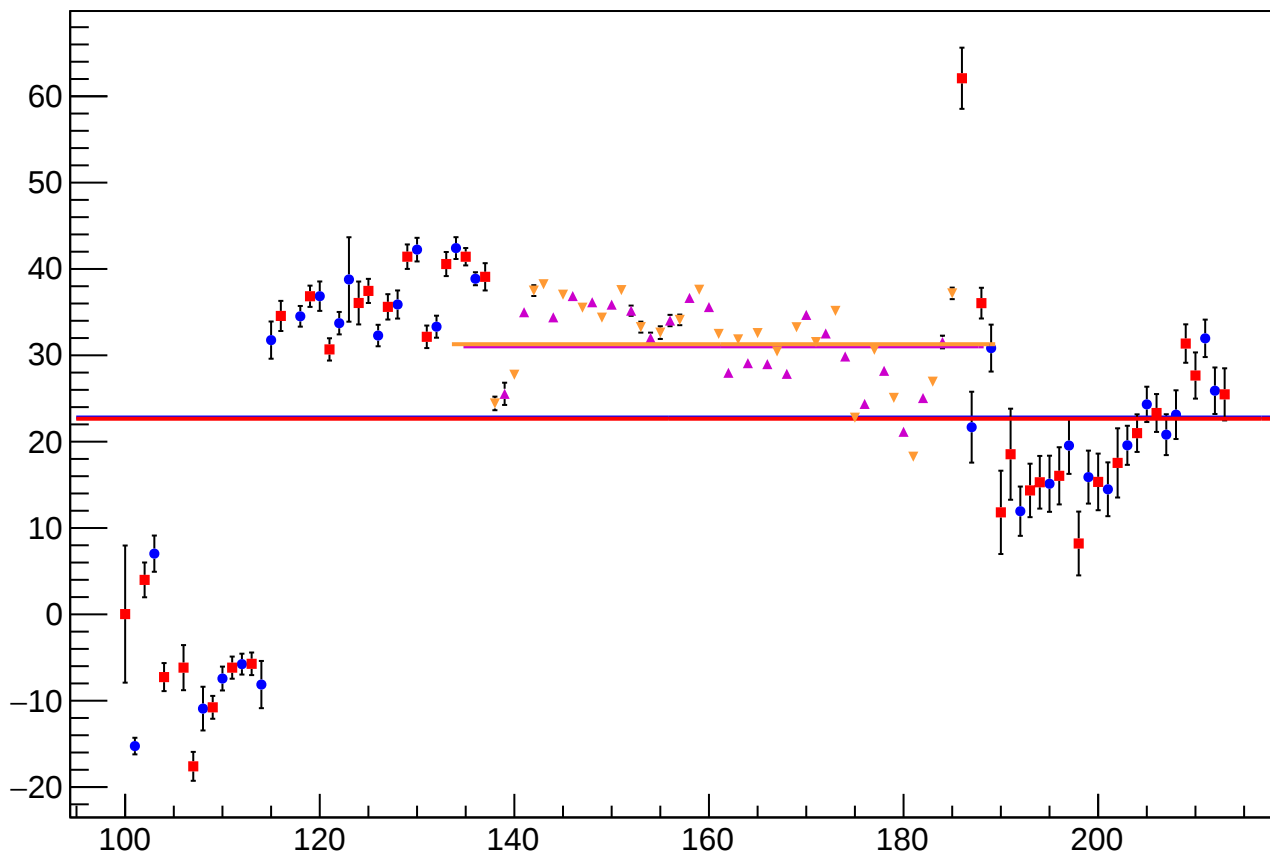
Right: -53.305+/-0.228 χ^2/NDF : 5154.1/63

In: -35.426+/-0.100 χ^2/NDF : 21547.5/52

Out: -36.558+/-0.099 χ^2/NDF : 27771.1/58

All: -36.001+/-0.070 χ^2/NDF : 49383.4/111

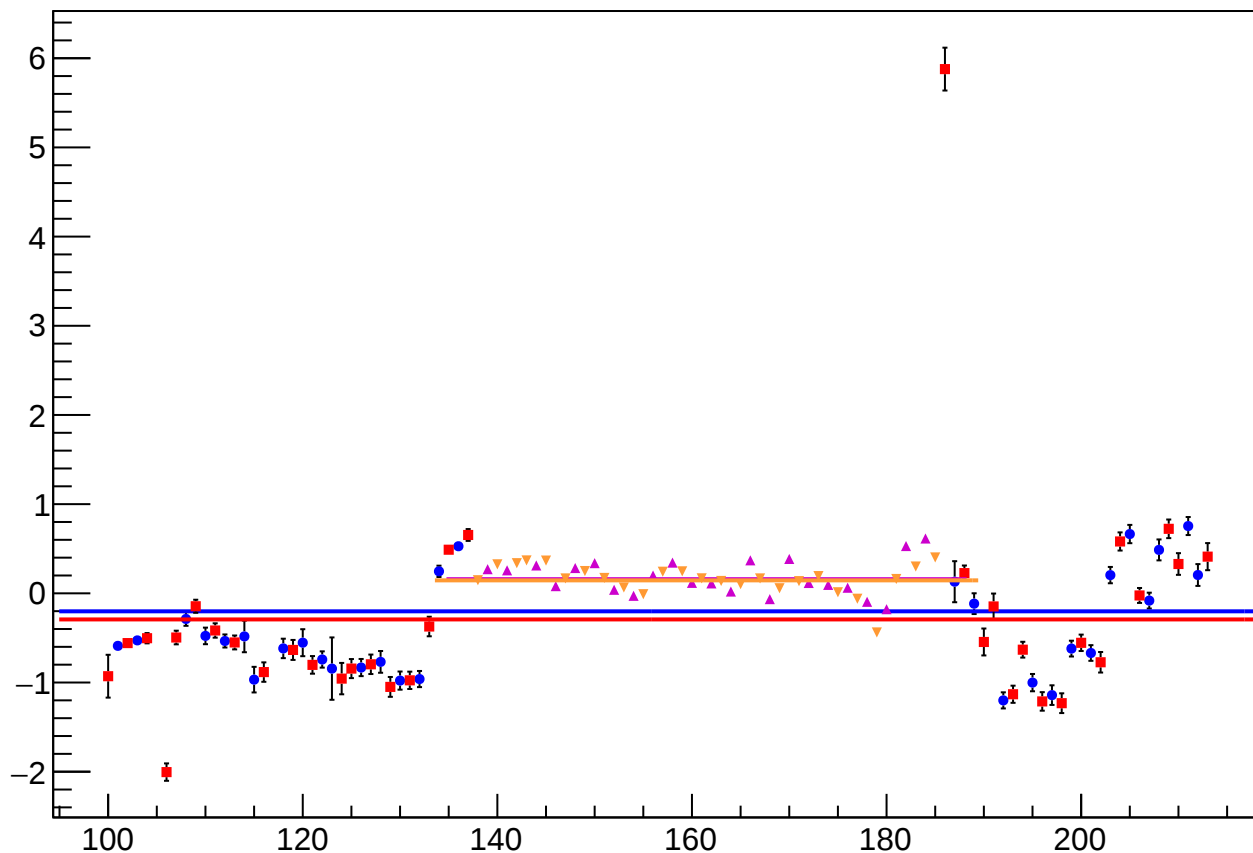
reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.796 $\pm$ 0.301 χ^2 /NDF: 4381.8/29
 Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24
 Right Out: 22.656 $\pm$ 0.309 χ^2 /NDF: 4278.2/33
 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: 22.728 $\pm$ 0.215 χ^2 /NDF: 8660.1/63
 In: 30.302 $\pm$ 0.090 χ^2 /NDF:7546.4/52
 Out: 30.577 $\pm$ 0.089 χ^2 /NDF:8341.4/58
 All: 30.442 $\pm$ 0.063 χ^2 /NDF: 15892.5/111

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.202 ± 0.015 $\chi^2/\text{NDF}: 1540.9/29$

Left Out: 0.145 ± 0.004 $\chi^2/\text{NDF}: 1579.6/24$

Right Out: -0.293 ± 0.015 $\chi^2/\text{NDF}: 2370.8/33$

Left In: 0.159 ± 0.004 $\chi^2/\text{NDF}: 2009.8/22$

Left: 0.152 ± 0.003 $\chi^2/\text{NDF}: 3594.3/47$

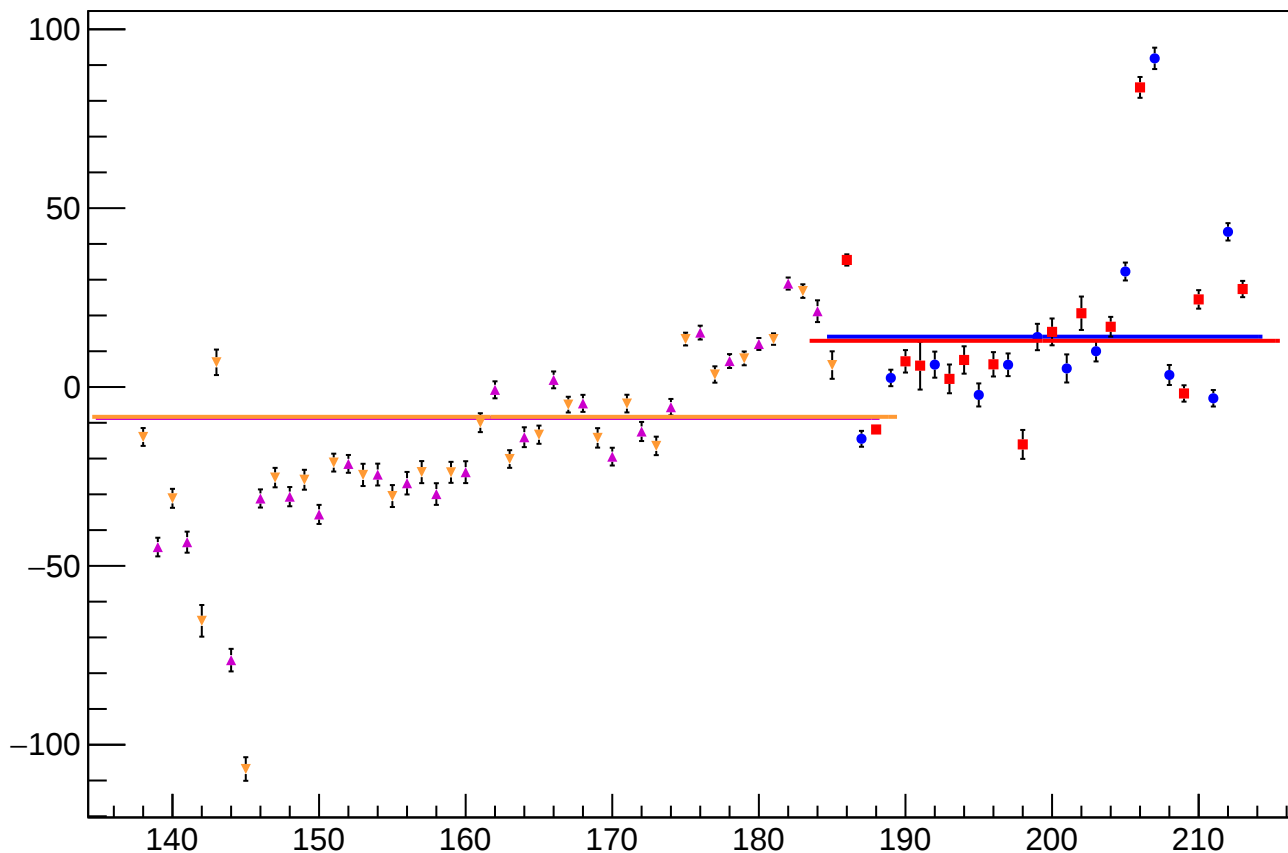
Right: -0.247 ± 0.011 $\chi^2/\text{NDF}: 3929.7/63$

In: 0.132 ± 0.004 $\chi^2/\text{NDF}: 4079.7/52$

Out: 0.114 ± 0.004 $\chi^2/\text{NDF}: 4717.3/58$

All: 0.123 ± 0.003 $\chi^2/\text{NDF}: 8806.2/111$

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.071 ± 0.771 χ^2/NDF : 1181.1/12

Left Out: -8.332 ± 0.500 χ^2/NDF : 2226.2/24

Right Out: 12.918 ± 0.651 χ^2/NDF : 1374.6/14

Left In: -8.652 ± 0.507 χ^2/NDF : 2223.8/22

Left: -8.490 ± 0.356 χ^2/NDF : 4450.2/47

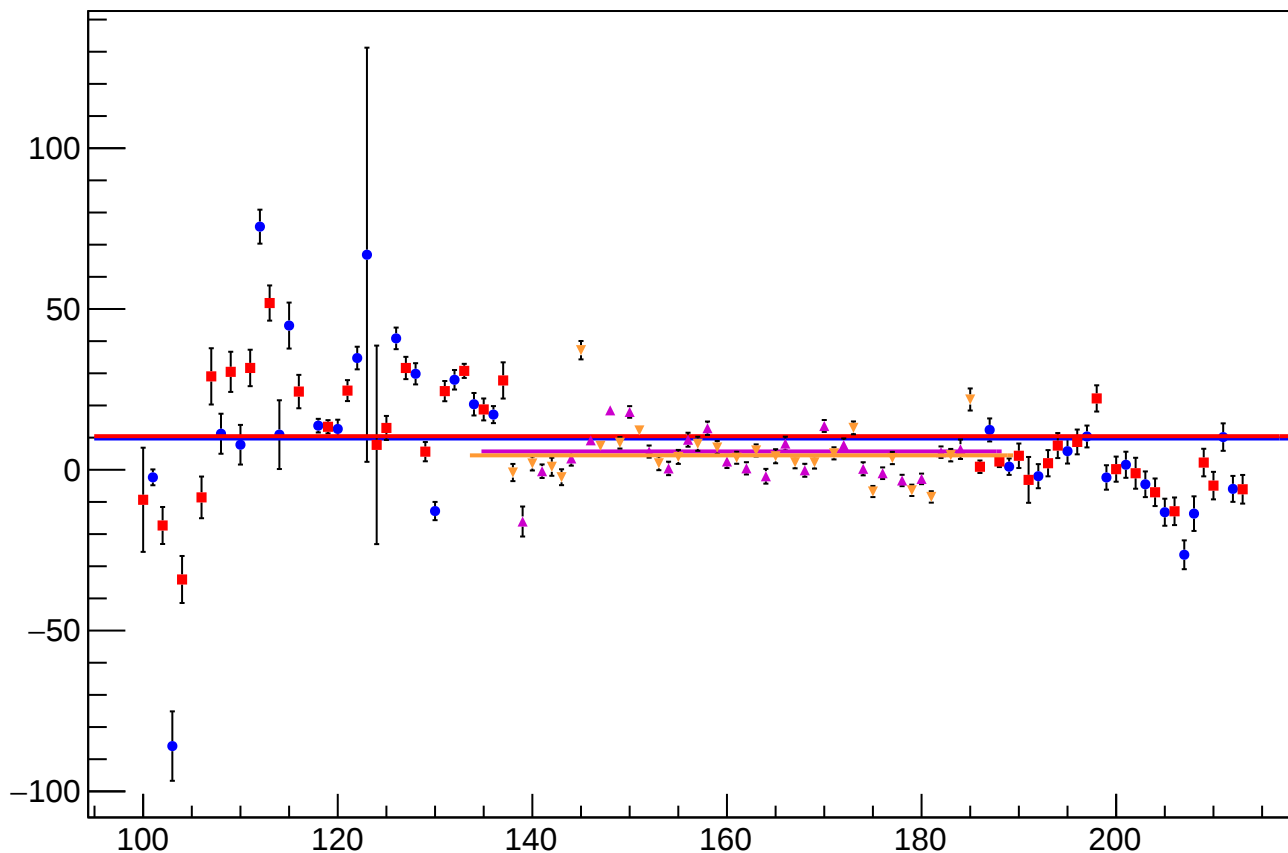
Right: 13.398 ± 0.498 χ^2/NDF : 2557.0/27

In: -1.792 ± 0.424 χ^2/NDF : 4010.9/35

Out: -0.459 ± 0.396 χ^2/NDF : 4271.2/39

All: -1.081 ± 0.289 χ^2/NDF : 8287.3/75

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.727 ± 0.665 χ^2/NDF : 756.8/29

Left Out: 4.484 ± 0.392 χ^2/NDF : 371.9/24

Right Out: 10.449 ± 0.625 χ^2/NDF : 499.5/33

Left In: 5.705 ± 0.404 χ^2/NDF : 324.1/22

Left: 5.076 ± 0.281 χ^2/NDF : 700.6/47

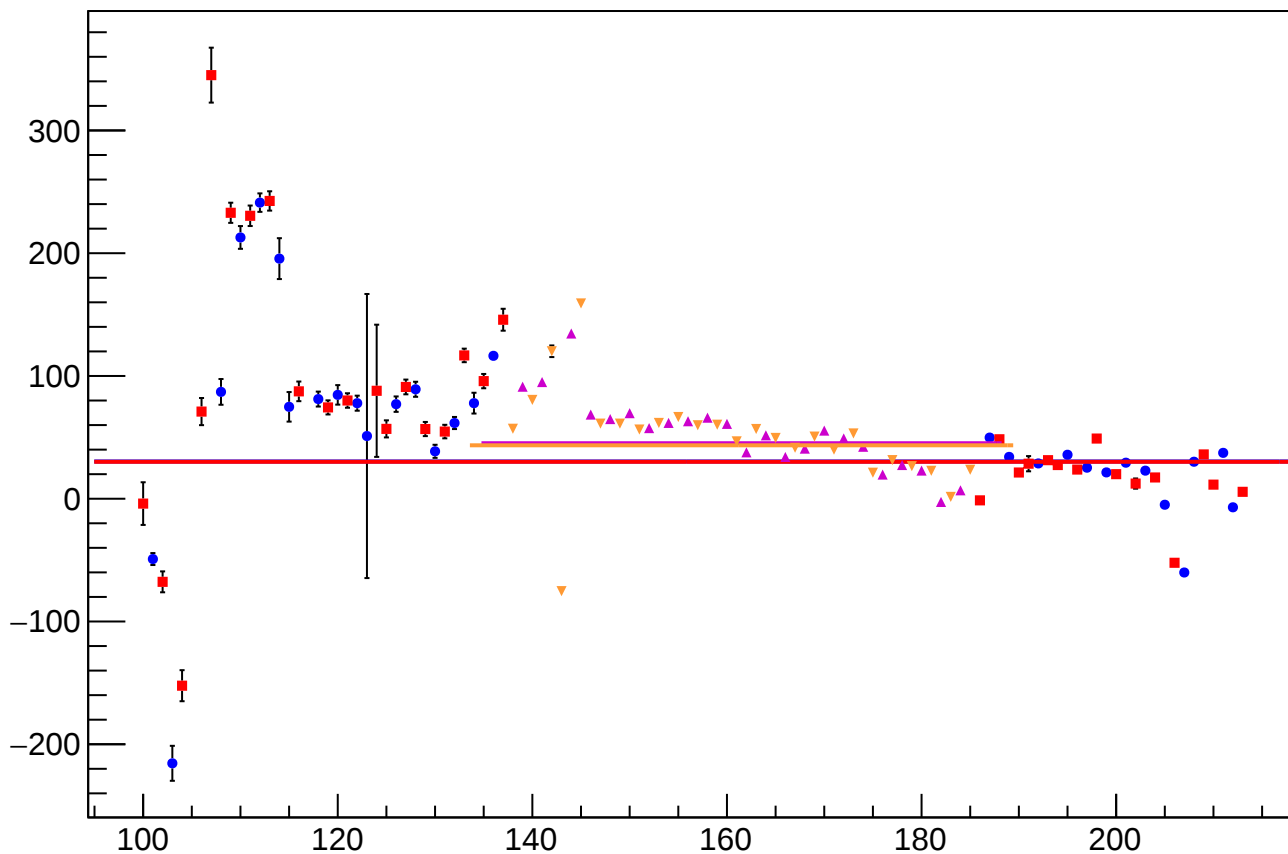
Right: 10.110 ± 0.456 χ^2/NDF : 1256.9/63

In: 6.789 ± 0.345 χ^2/NDF : 1107.5/52

Out: 6.168 ± 0.332 χ^2/NDF : 936.7/58

All: 6.466 ± 0.239 χ^2/NDF : 2045.9/111

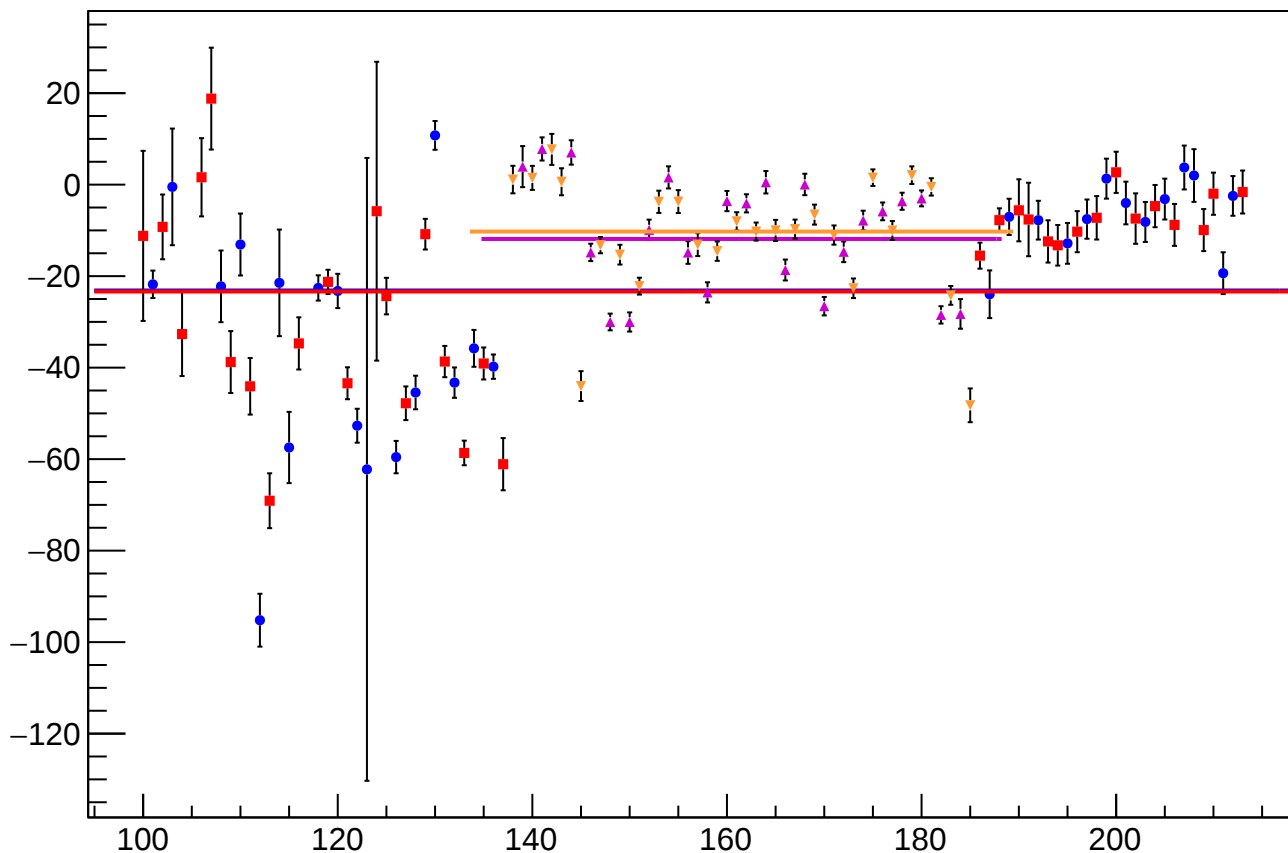
reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 30.354+/-0.651 χ^2/NDF : 4292.0/29
 Left Out: 43.524+/-0.498 χ^2/NDF : 3830.7/24
 Right Out: 30.098+/-0.544 χ^2/NDF : 5446.1/33
 Left In: 45.211+/-0.504 χ^2/NDF : 3048.5/22

Left: 44.358+/-0.354 χ^2/NDF : 6884.8/47
 Right: 30.203+/-0.418 χ^2/NDF : 9738.2/63
 In: 39.643+/-0.399 χ^2/NDF : 7665.8/52
 Out: 37.397+/-0.367 χ^2/NDF : 9607.9/58
 All: 38.429+/-0.270 χ^2/NDF : 17290.9/111

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.141 ± 0.774 χ^2/NDF : 791.8/29

Left Out: -10.257 ± 0.444 χ^2/NDF : 552.4/24

Right Out: -23.357 ± 0.752 χ^2/NDF : 660.5/33

Left In: -11.877 ± 0.456 χ^2/NDF : 666.2/22

Left: -11.046 ± 0.318 χ^2/NDF : 1225.1/47

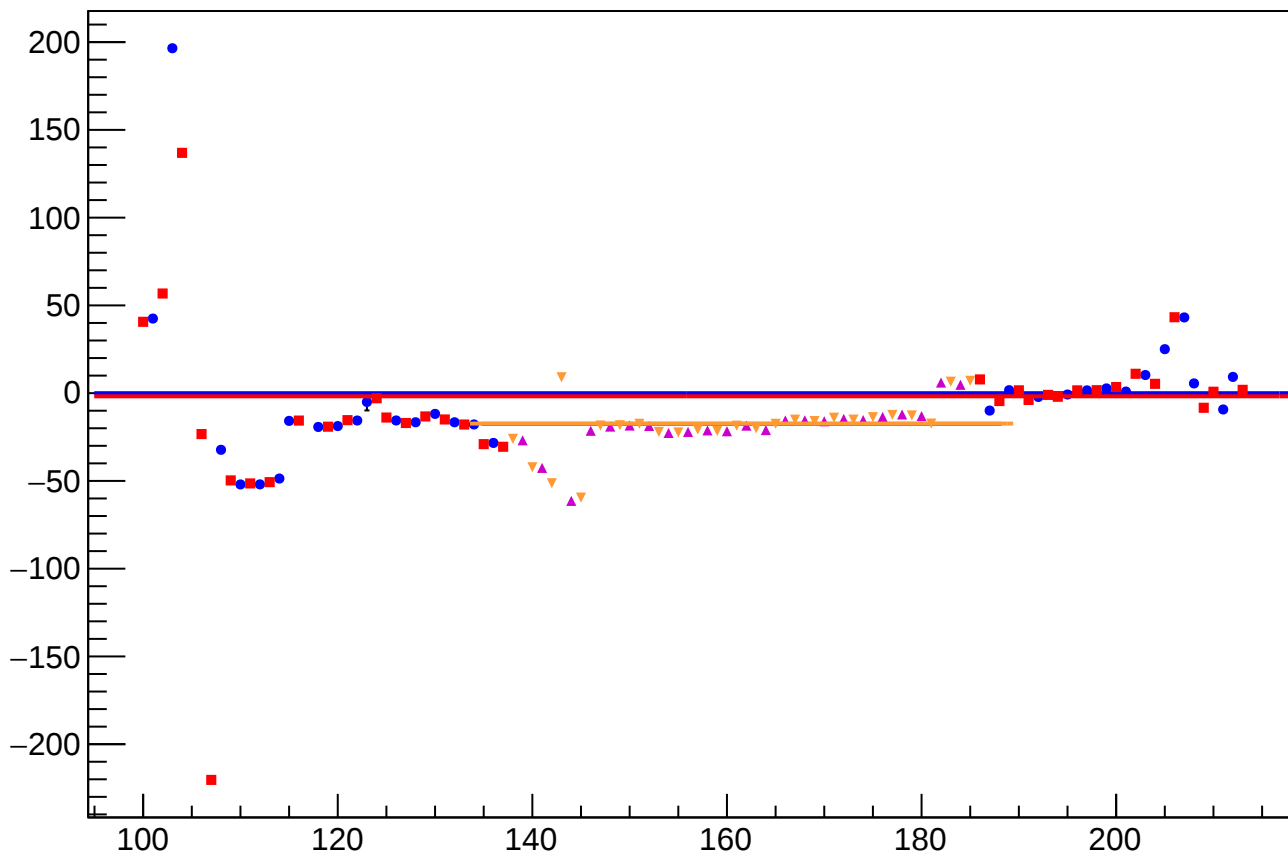
Right: -23.252 ± 0.539 χ^2/NDF : 1452.3/63

In: -14.781 ± 0.393 χ^2/NDF : 1615.3/52

Out: -13.646 ± 0.383 χ^2/NDF : 1437.9/58

All: -14.198 ± 0.274 χ^2/NDF : 3057.5/111

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.025 ± 0.036 $\chi^2/\text{NDF}: 677969.3/29$

Left Out: -17.333 ± 0.020 $\chi^2/\text{NDF}: 325197.2/24$

Right Out: -1.800 ± 0.035 $\chi^2/\text{NDF}: 672316.3/33$

Left In: -17.491 ± 0.021 $\chi^2/\text{NDF}: 259215.8/22$

Left: -17.411 ± 0.015 $\chi^2/\text{NDF}: 584442.6/47$

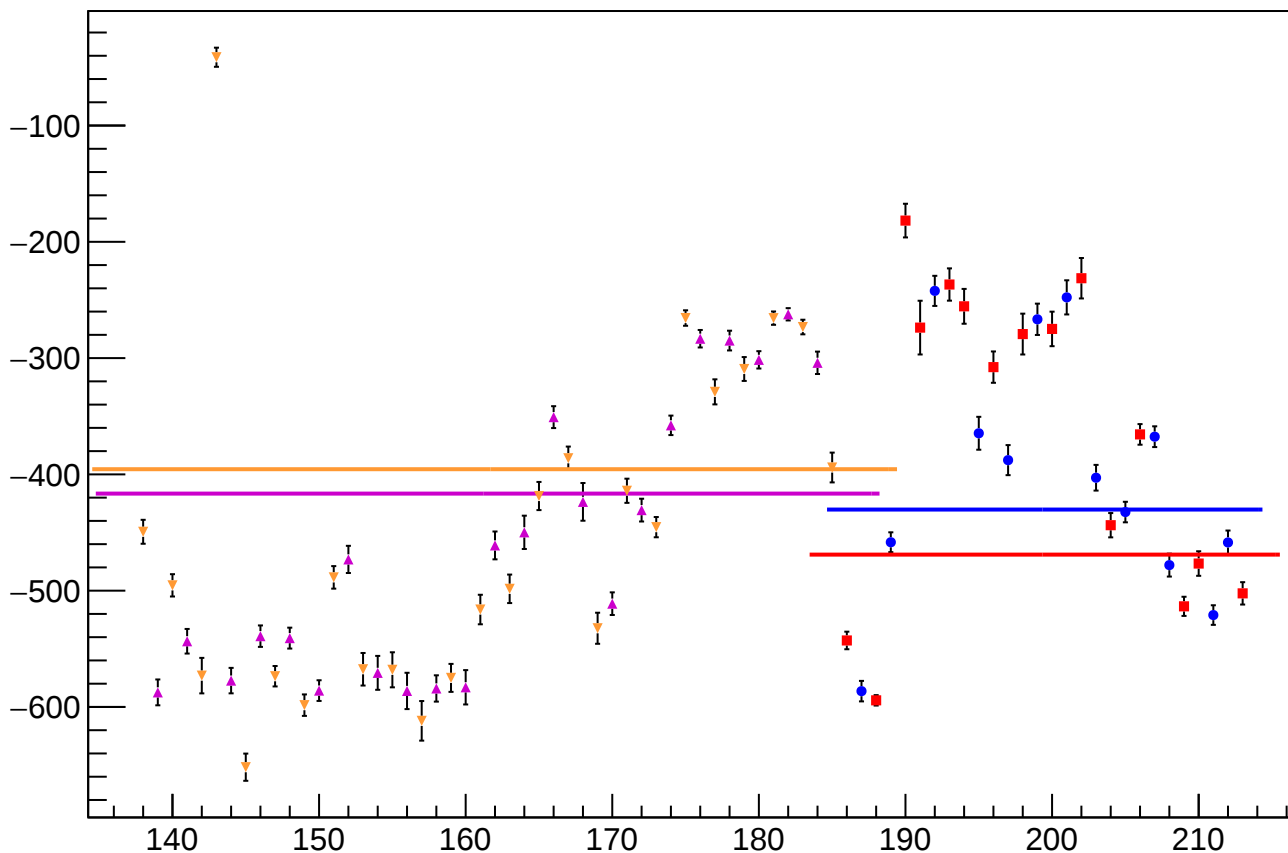
Right: -0.943 ± 0.025 $\chi^2/\text{NDF}: 1351526.6/63$

In: -13.202 ± 0.018 $\chi^2/\text{NDF}: 1112420.0/52$

Out: -13.395 ± 0.018 $\chi^2/\text{NDF}: 1144460.0/58$

All: -13.301 ± 0.013 $\chi^2/\text{NDF}: 2256939.0/111$

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -430.244 $\pm$ 2.873 χ^2/NDF : 1072.0/12

Left Out: -395.547 $\pm$ 1.953 χ^2/NDF : 5946.5/24

Right Out: -468.995 $\pm$ 2.528 χ^2/NDF : 2625.4/14

Left In: -416.521 $\pm$ 2.005 χ^2/NDF : 3917.0/22

Left: -405.762 $\pm$ 1.399 χ^2/NDF : 9919.7/47

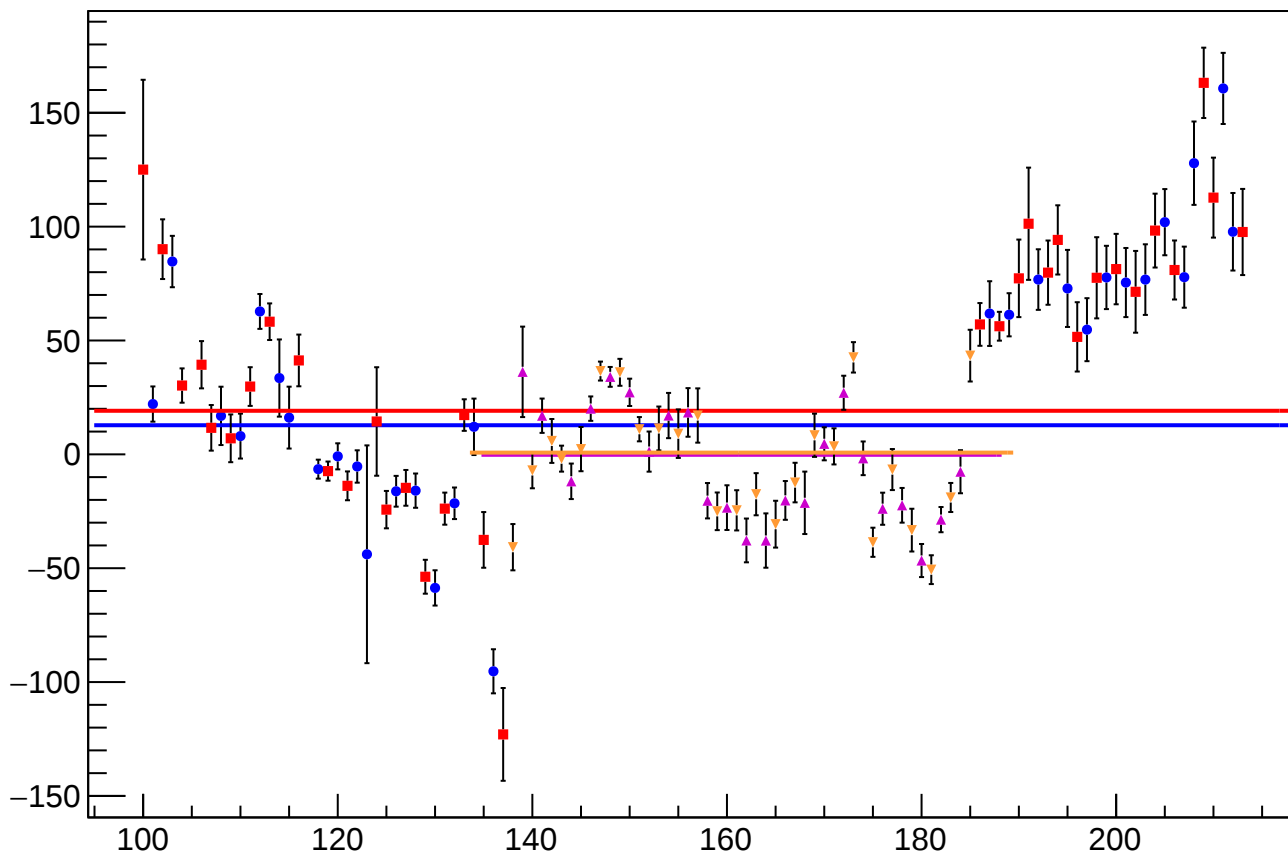
Right: -452.087 $\pm$ 1.898 χ^2/NDF : 3800.0/27

In: -421.015 $\pm$ 1.644 χ^2/NDF : 5004.4/35

Out: -423.012 $\pm$ 1.546 χ^2/NDF : 9100.6/39

All: -422.075 $\pm$ 1.126 χ^2/NDF : 14105.8/75

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.786 $\pm$ 1.729 χ^2 /NDF: 742.8/29

Left Out: 0.767 $\pm$ 1.503 χ^2 /NDF:350.1/24

Right Out: 19.134 $\pm$ 1.672 χ^2 /NDF: 725.8/33

Left In: -0.202 $\pm$ 1.575 χ^2 /NDF:260.8/22

Left: 0.305 $\pm$ 1.087 χ^2 /NDF: 611.1/47

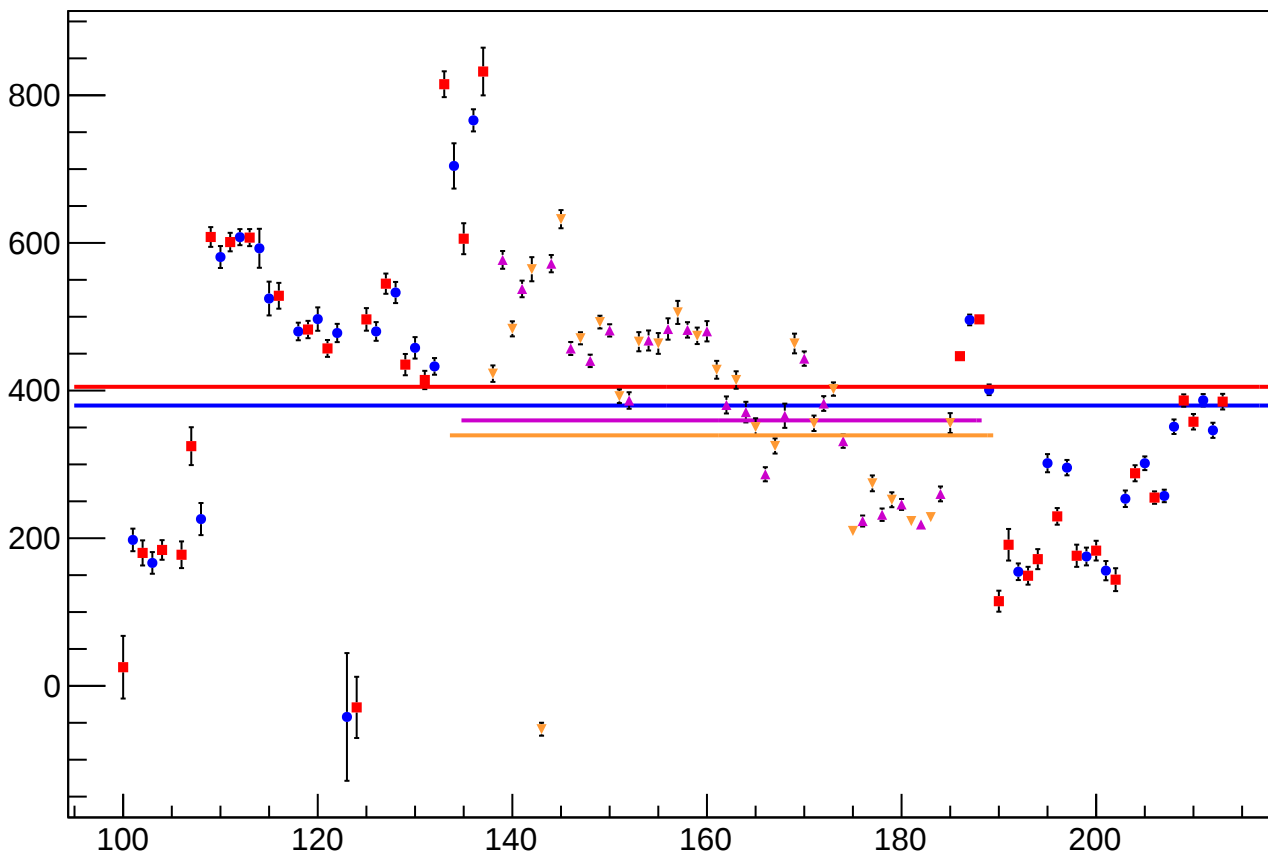
Right: 16.067 $\pm$ 1.202 χ^2 /NDF: 1475.6/63

In: 5.688 $\pm$ 1.165 χ^2 /NDF:1034.5/52

Out: 8.973 $\pm$ 1.118 χ^2 /NDF:1142.7/58

All: 7.398 $\pm$ 0.806 χ^2 /NDF: 2181.3/111

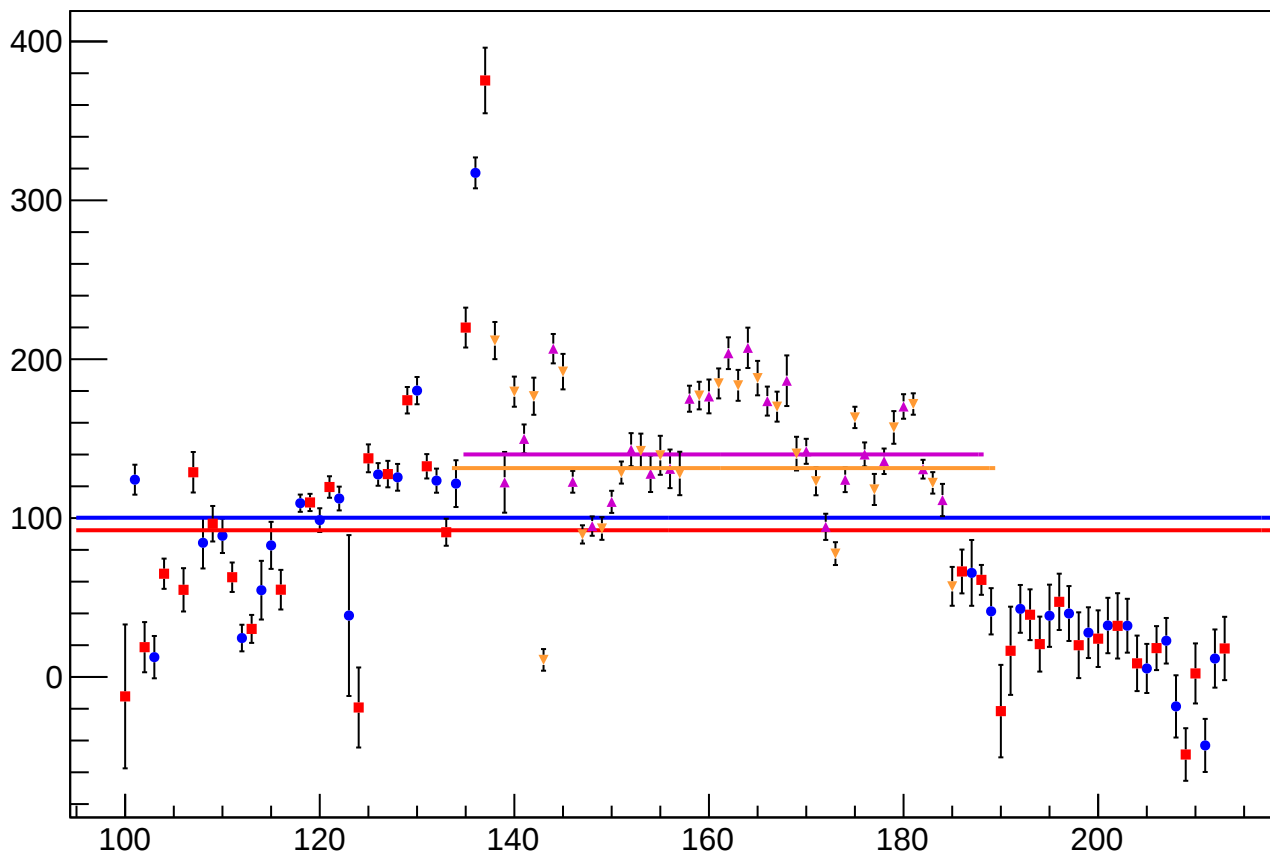
reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 379.735 $\pm$ 2.150 χ^2 /NDF: 4124.9/29
 Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24
 Right Out: 405.106 $\pm$ 1.889 χ^2 /NDF: 6109.3/33
 Left In: 359.609 $\pm$ 2.003 χ^2 /NDF:3398.5/22

Left: 349.278 $\pm$ 1.402 χ^2 /NDF: 8953.2/47
 Right: 394.054 $\pm$ 1.419 χ^2 /NDF: 10312.8/63
 In: 368.960 $\pm$ 1.465 χ^2 /NDF:7570.3/52
 Out: 373.493 $\pm$ 1.361 χ^2 /NDF:12194.5/58
 All: 371.394 $\pm$ 0.997 χ^2 /NDF: 19770.0/111

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 100.230 ± 2.011 $\chi^2/\text{NDF}: 1076.9/29$

Left Out: 131.464 ± 1.728 $\chi^2/\text{NDF}: 809.3/24$

Right Out: 92.340 ± 1.962 $\chi^2/\text{NDF}: 895.0/33$

Left In: 140.069 ± 1.795 $\chi^2/\text{NDF}: 316.5/22$

Left: 135.602 ± 1.245 $\chi^2/\text{NDF}: 1137.8/47$

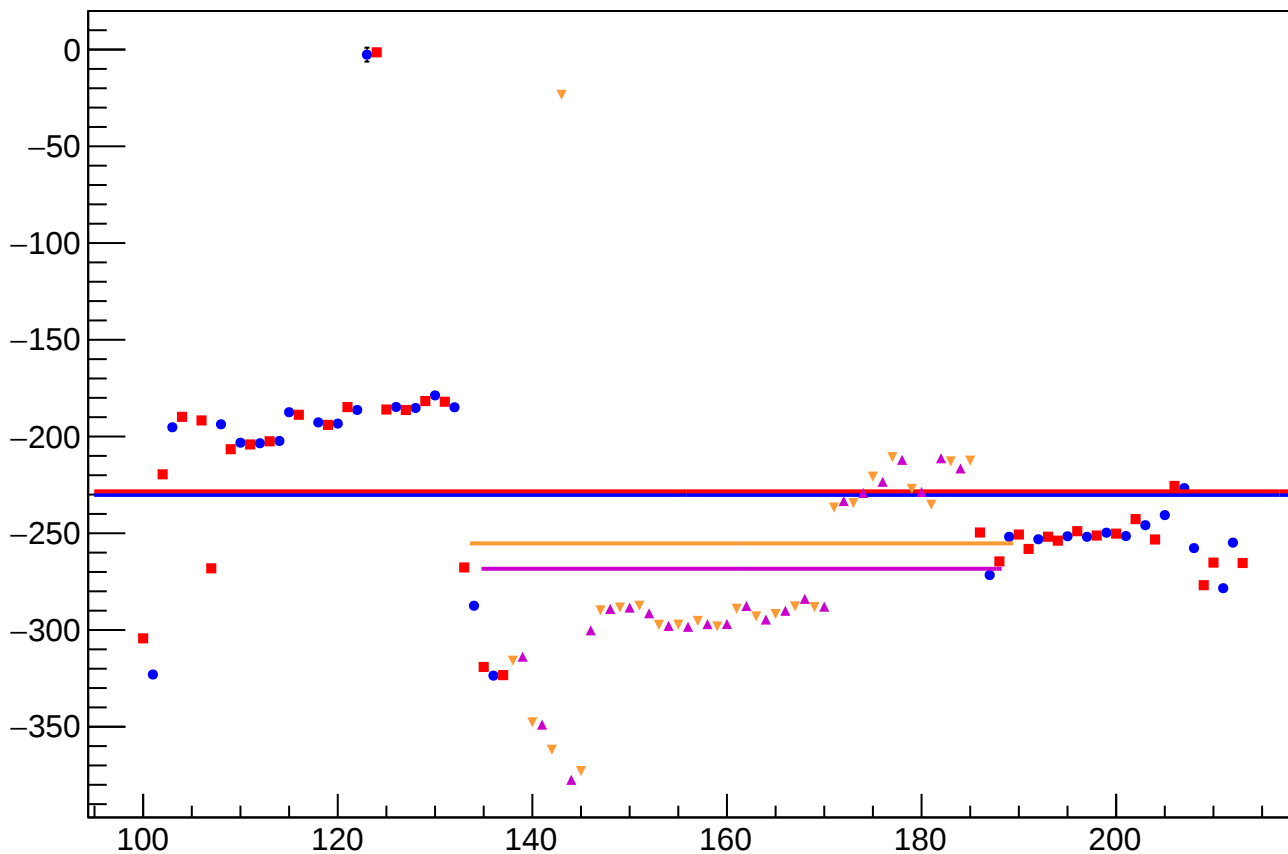
Right: 96.189 ± 1.404 $\chi^2/\text{NDF}: 1979.8/63$

In: 122.400 ± 1.339 $\chi^2/\text{NDF}: 1611.9/52$

Out: 114.381 ± 1.297 $\chi^2/\text{NDF}: 1928.3/58$

All: 118.262 ± 0.932 $\chi^2/\text{NDF}: 3558.7/111$

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -230.165+/-0.107 χ^2/NDF : 173224.2/29

Left Out: -255.232+/-0.082 χ^2/NDF : 728016.7/24

Right Out: -228.330+/-0.101 χ^2/NDF : 156553.0/33

Left In: -268.353+/-0.084 χ^2/NDF : 262479.3/22

Left: -261.661+/-0.059 χ^2/NDF : 1003051.2/47

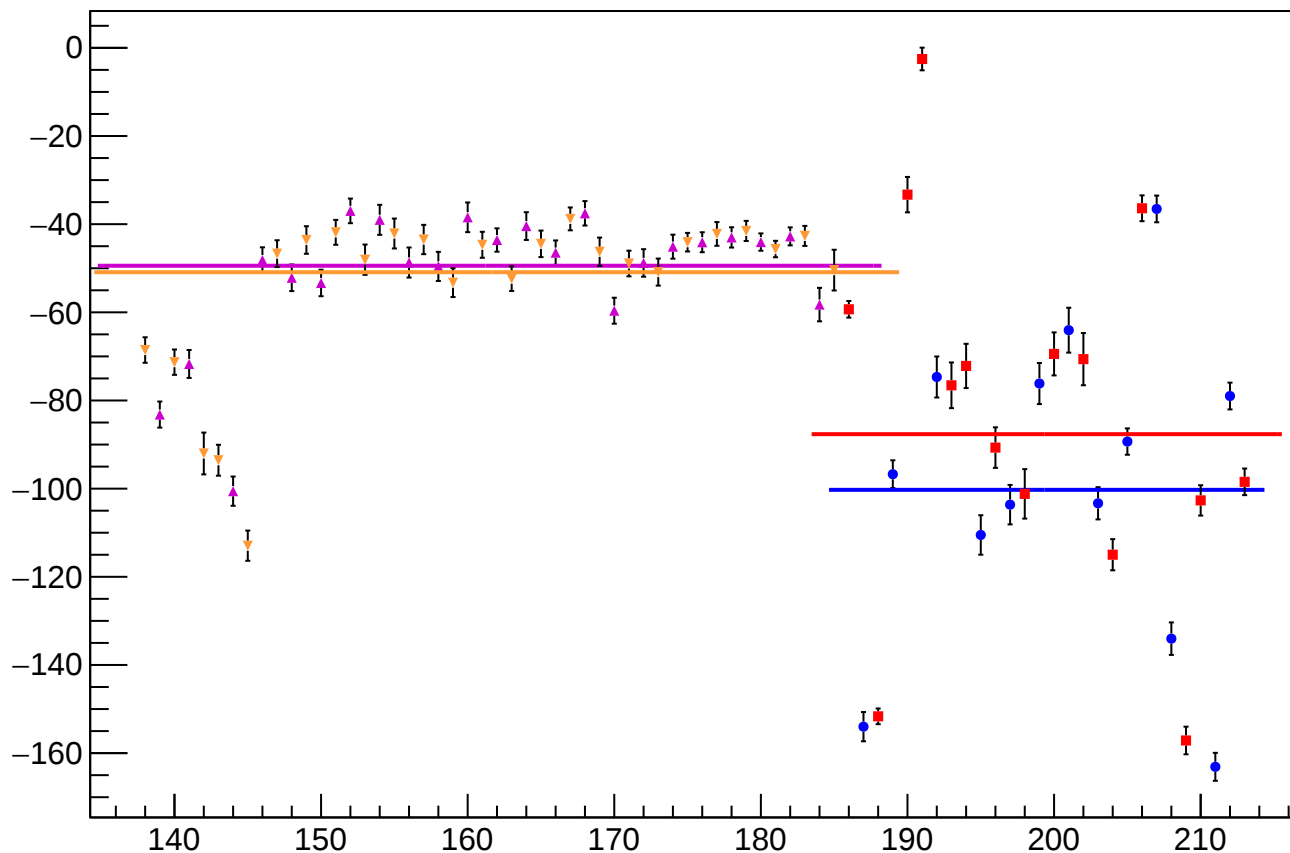
Right: -229.202+/-0.073 χ^2/NDF : 329932.9/63

In: -253.791+/-0.066 χ^2/NDF : 515228.2/52

Out: -244.592+/-0.064 χ^2/NDF : 927180.1/58

All: -249.046+/-0.046 χ^2/NDF : 1452498.2/111

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -100.272 ± 1.001 $\chi^2/\text{NDF}: 1358.8/12$

Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$

Right Out: -87.642 ± 0.808 $\chi^2/\text{NDF}: 3732.2/14$

Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$

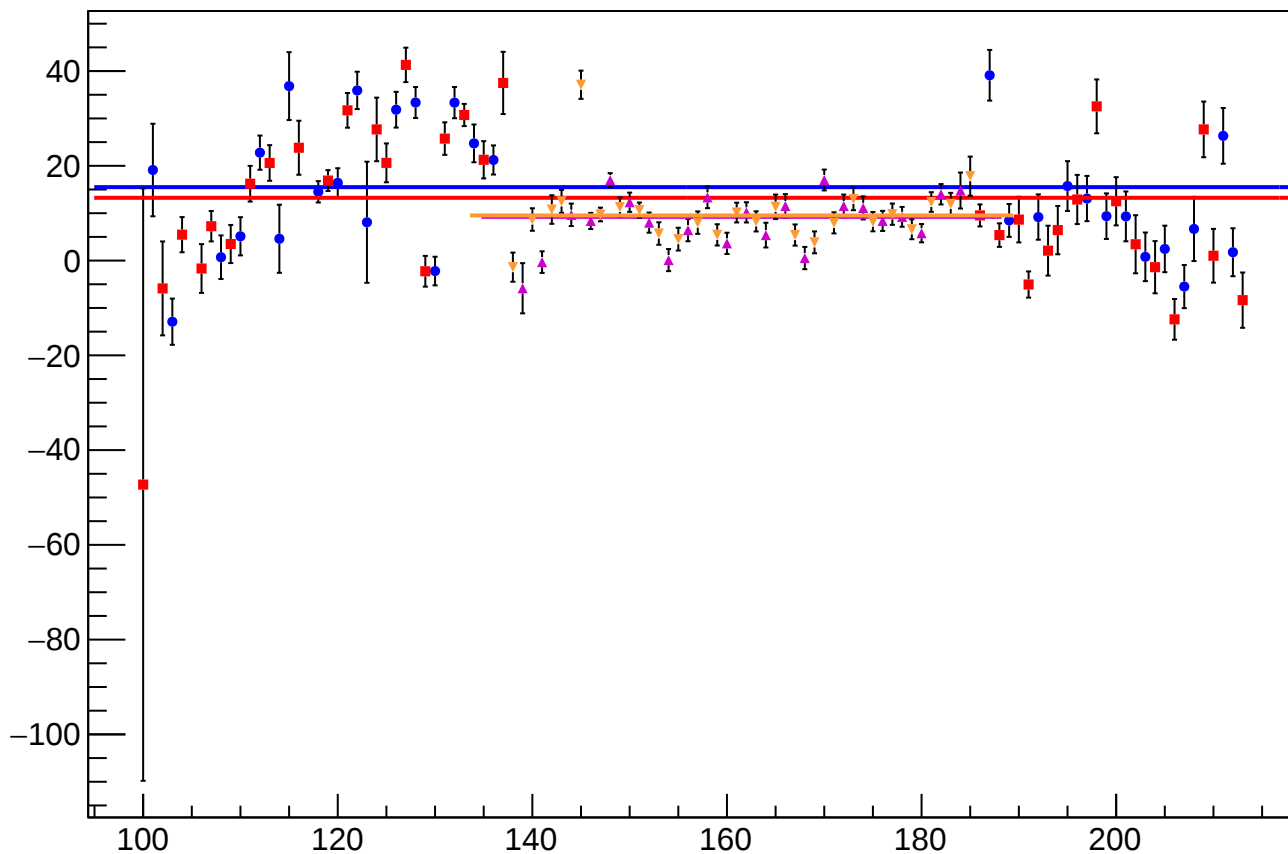
Right: -92.631 ± 0.629 $\chi^2/\text{NDF}: 5187.3/27$

In: -62.348 ± 0.504 $\chi^2/\text{NDF}: 3828.1/35$

Out: -63.176 ± 0.467 $\chi^2/\text{NDF}: 5868.6/39$

All: -62.794 ± 0.343 $\chi^2/\text{NDF}: 9698.1/75$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.501 $\pm$ 0.762 χ^2 /NDF: 292.5/29

Left Out: 9.530 $\pm$ 0.446 χ^2 /NDF:134.4/24

Right Out: 13.251 $\pm$ 0.667 χ^2 /NDF: 384.7/33

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

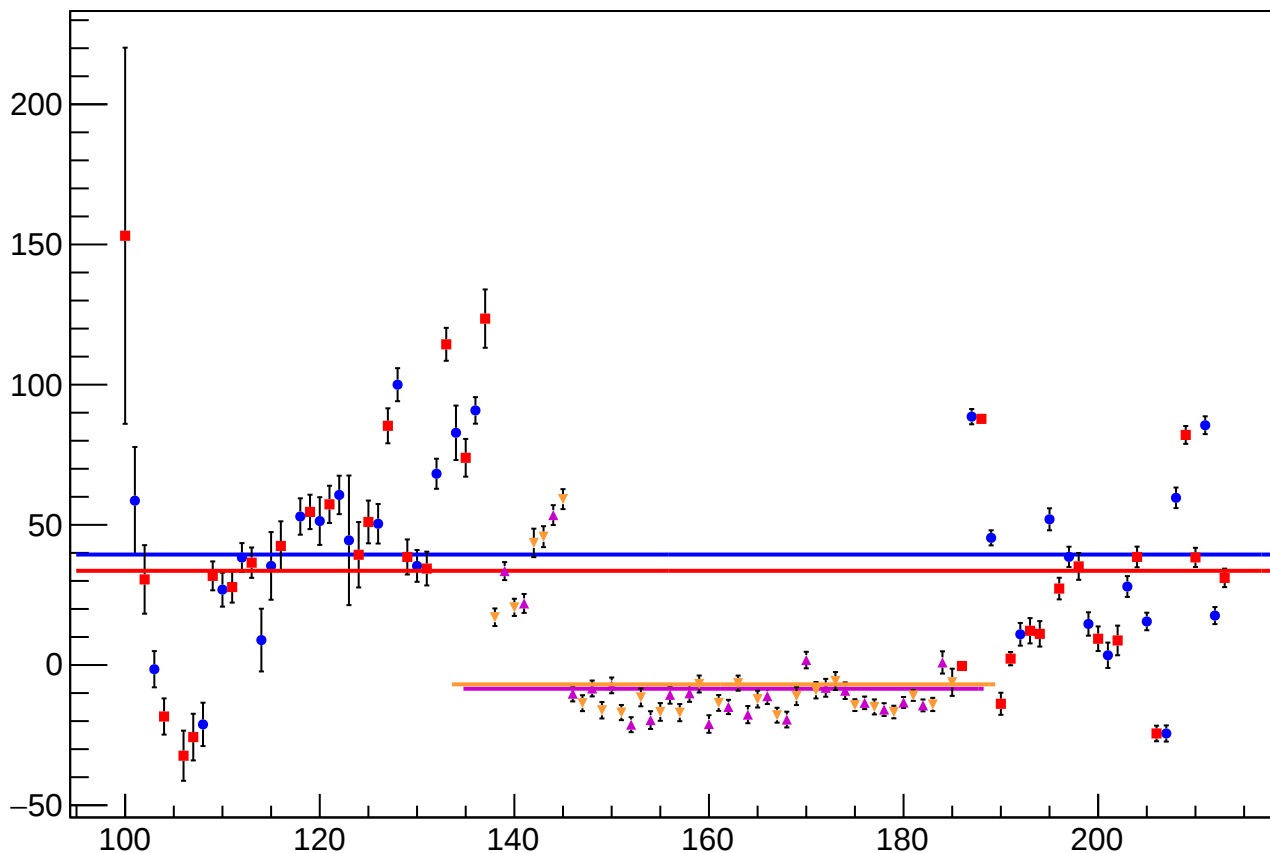
Right: 14.228 $\pm$ 0.502 χ^2 /NDF: 682.2/63

In: 10.916 $\pm$ 0.395 χ^2 /NDF:466.1/52

Out: 10.679 $\pm$ 0.371 χ^2 /NDF:540.6/58

All: 10.790 $\pm$ 0.270 χ^2 /NDF: 1006.8/111

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 39.408 ± 0.813 $\chi^2/\text{NDF}: 1744.8/29$

Left Out: -6.888 ± 0.571 $\chi^2/\text{NDF}: 914.2/24$

Right Out: 33.610 ± 0.655 $\chi^2/\text{NDF}: 3596.7/33$

Left In: -8.451 ± 0.580 $\chi^2/\text{NDF}: 688.9/22$

Left: -7.658 ± 0.407 $\chi^2/\text{NDF}: 1606.8/47$

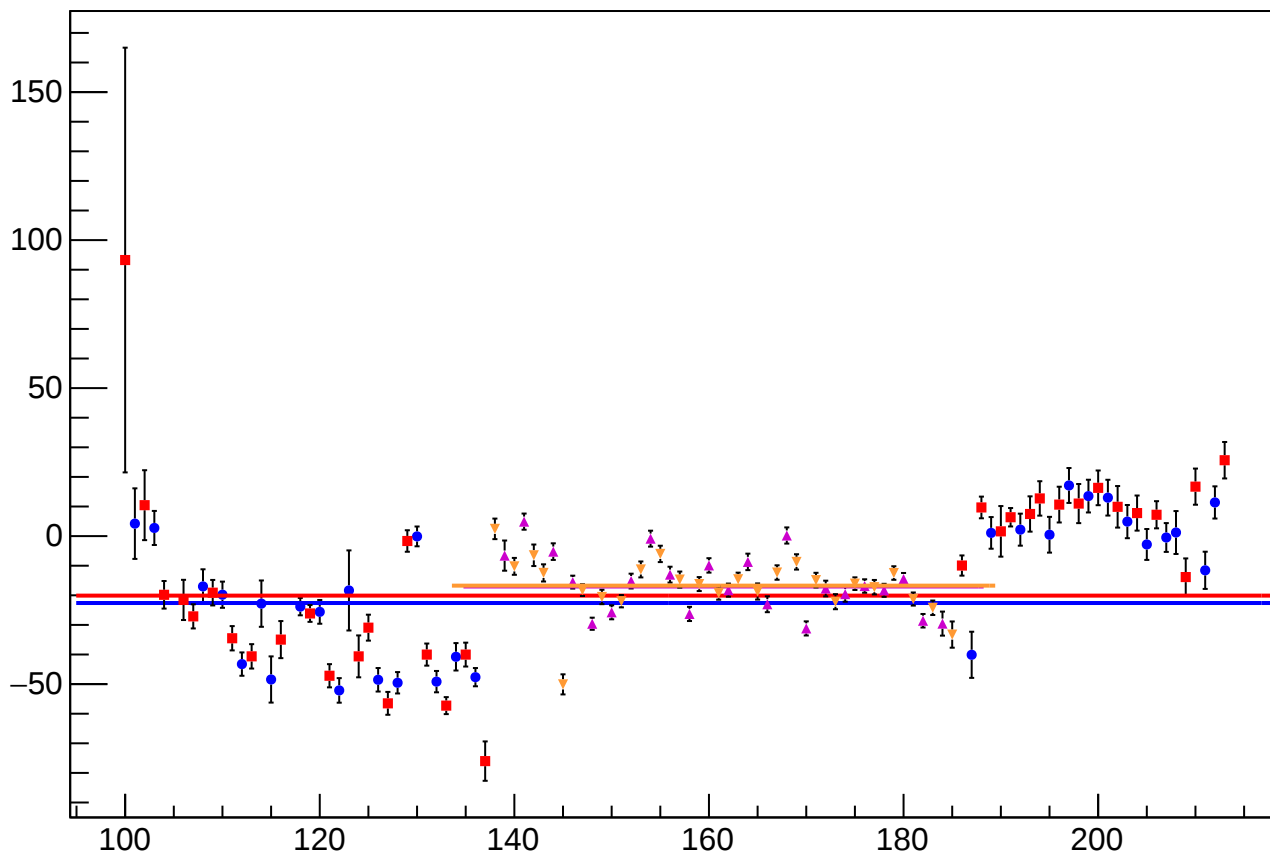
Right: 35.892 ± 0.510 $\chi^2/\text{NDF}: 5372.4/63$

In: 7.671 ± 0.472 $\chi^2/\text{NDF}: 4728.9/52$

Out: 10.591 ± 0.430 $\chi^2/\text{NDF}: 6682.2/58$

All: 9.265 ± 0.318 $\chi^2/\text{NDF}: 11432.0/111$

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -22.601 ± 0.875 $\chi^2/\text{NDF}: 689.8/29$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -20.104 ± 0.790 $\chi^2/\text{NDF}: 989.2/33$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

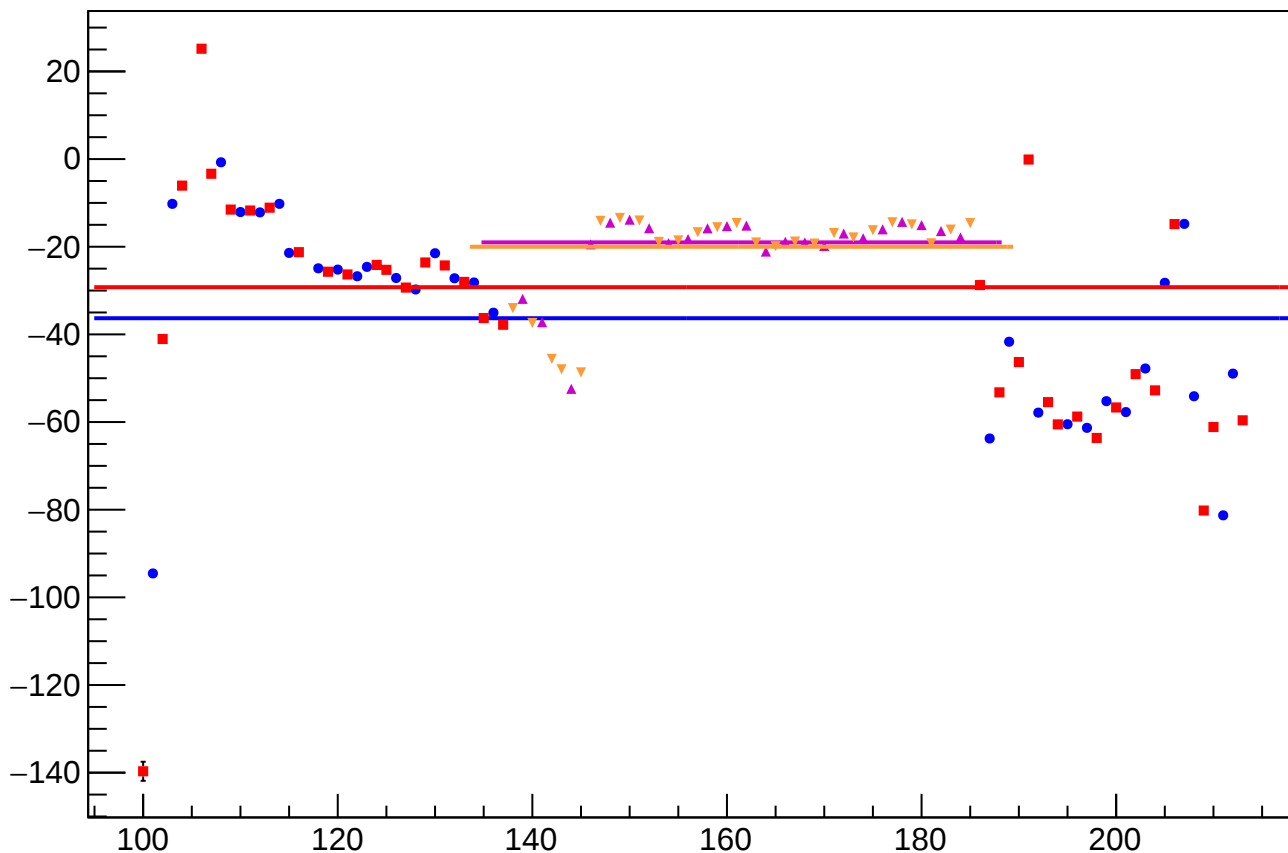
Right: -21.225 ± 0.586 $\chi^2/\text{NDF}: 1683.5/63$

In: -18.486 ± 0.448 $\chi^2/\text{NDF}: 1047.3/52$

Out: -17.716 ± 0.426 $\chi^2/\text{NDF}: 1225.4/58$

All: -18.082 ± 0.309 $\chi^2/\text{NDF}: 2274.3/111$

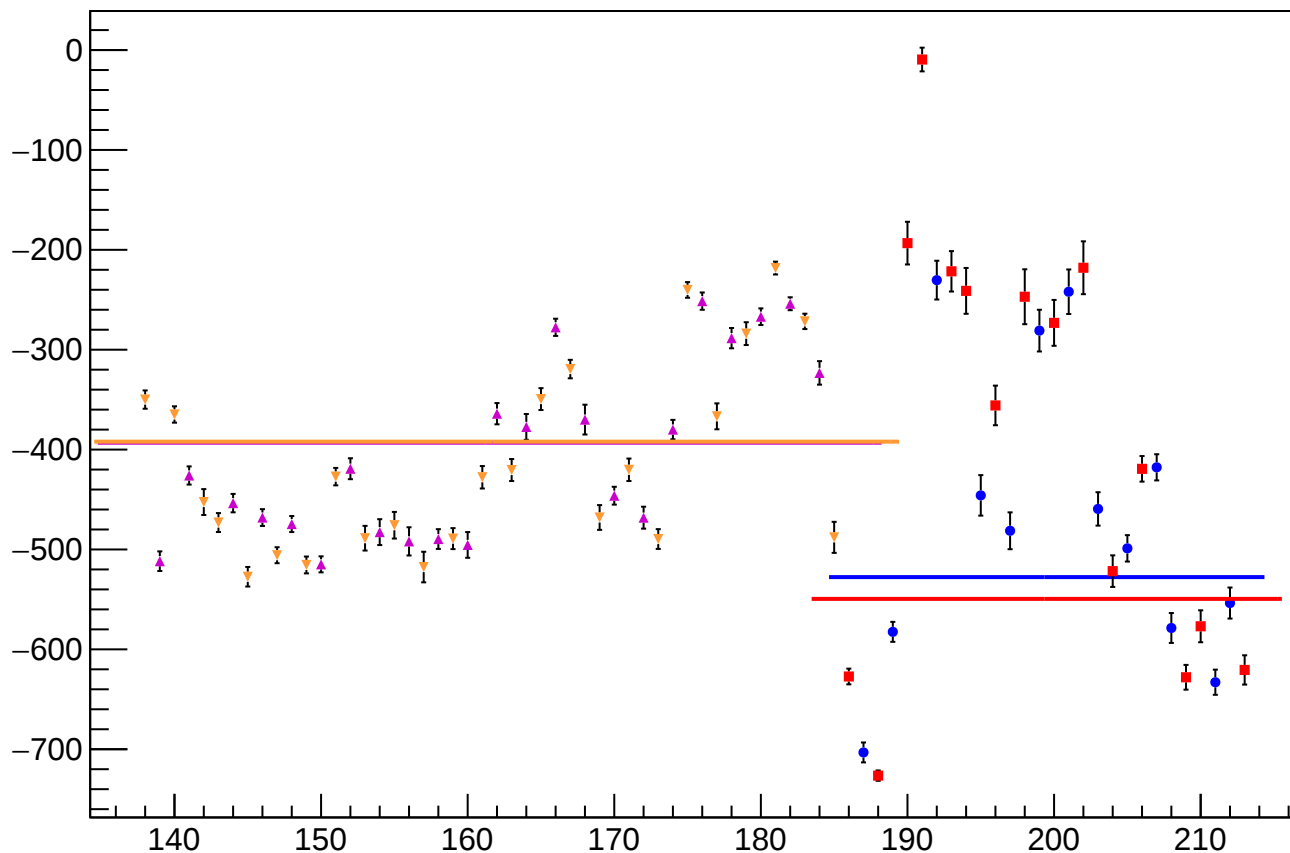
reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -36.312 ± 0.041 $\chi^2/\text{NDF}: 244747.0/29$
 Left Out: -20.006 ± 0.023 $\chi^2/\text{NDF}: 145623.8/24$
 Right Out: -29.232 ± 0.036 $\chi^2/\text{NDF}: 469478.5/33$
 Left In: -19.007 ± 0.024 $\chi^2/\text{NDF}: 90873.3/22$

Left: -19.514 ± 0.017 $\chi^2/\text{NDF}: 237400.2/47$
 Right: -32.302 ± 0.027 $\chi^2/\text{NDF}: 730858.1/63$
 In: -23.285 ± 0.021 $\chi^2/\text{NDF}: 467692.0/52$
 Out: -22.713 ± 0.020 $\chi^2/\text{NDF}: 661121.8/58$
 All: -22.985 ± 0.014 $\chi^2/\text{NDF}: 1129219.3/111$

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -527.668 ± 4.002 $\chi^2/\text{NDF}: 1077.3/12$

Left Out: -392.054 ± 1.967 $\chi^2/\text{NDF}: 2717.2/24$

Right Out: -549.472 ± 3.170 $\chi^2/\text{NDF}: 4752.3/14$

Left In: -393.113 ± 2.006 $\chi^2/\text{NDF}: 2253.3/22$

Left: -392.573 ± 1.404 $\chi^2/\text{NDF}: 4970.6/47$

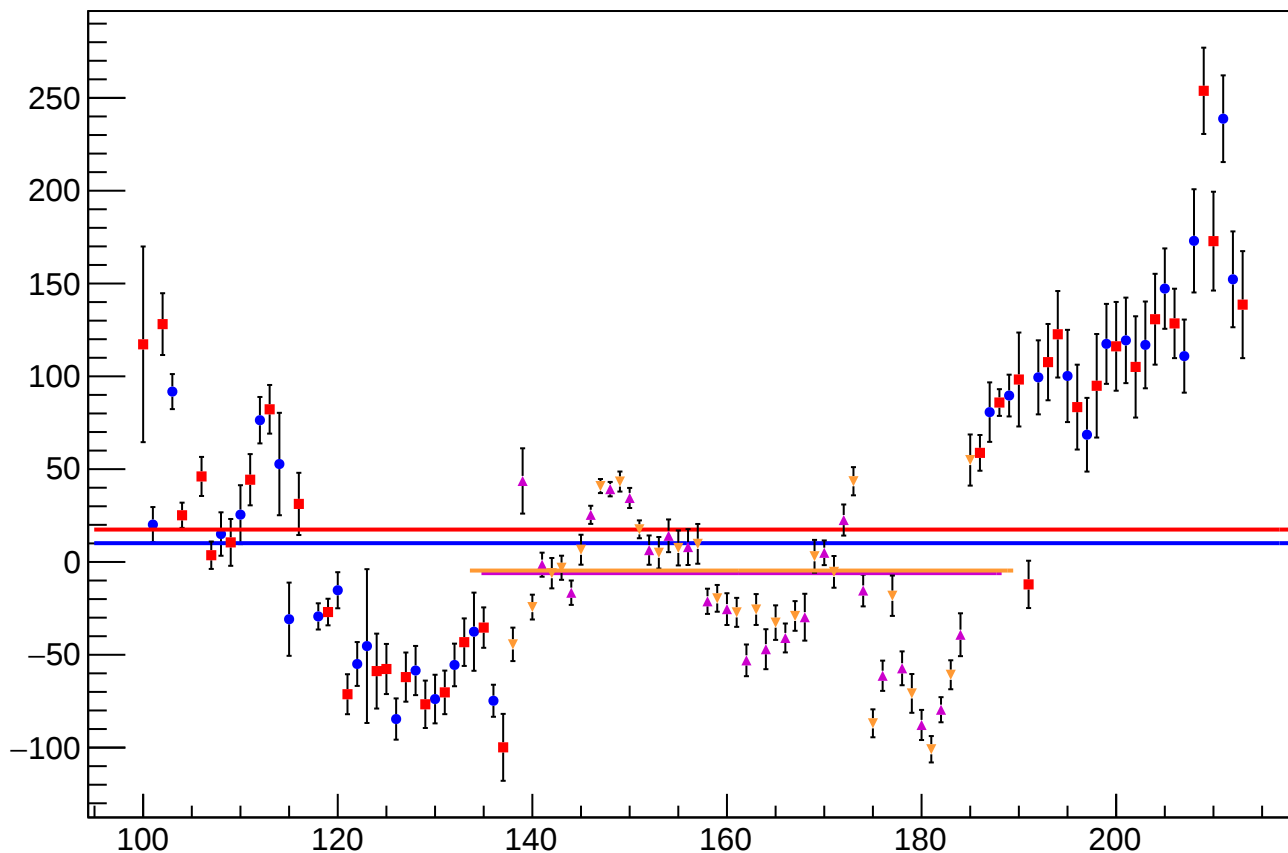
Right: -541.066 ± 2.485 $\chi^2/\text{NDF}: 5847.8/27$

In: -420.117 ± 1.793 $\chi^2/\text{NDF}: 4234.0/35$

Out: -435.795 ± 1.671 $\chi^2/\text{NDF}: 9249.8/39$

All: -428.507 ± 1.223 $\chi^2/\text{NDF}: 13524.8/75$

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.126 ± 2.508 $\chi^2/\text{NDF}: 863.3/29$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 17.457 ± 2.214 $\chi^2/\text{NDF}: 894.5/33$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

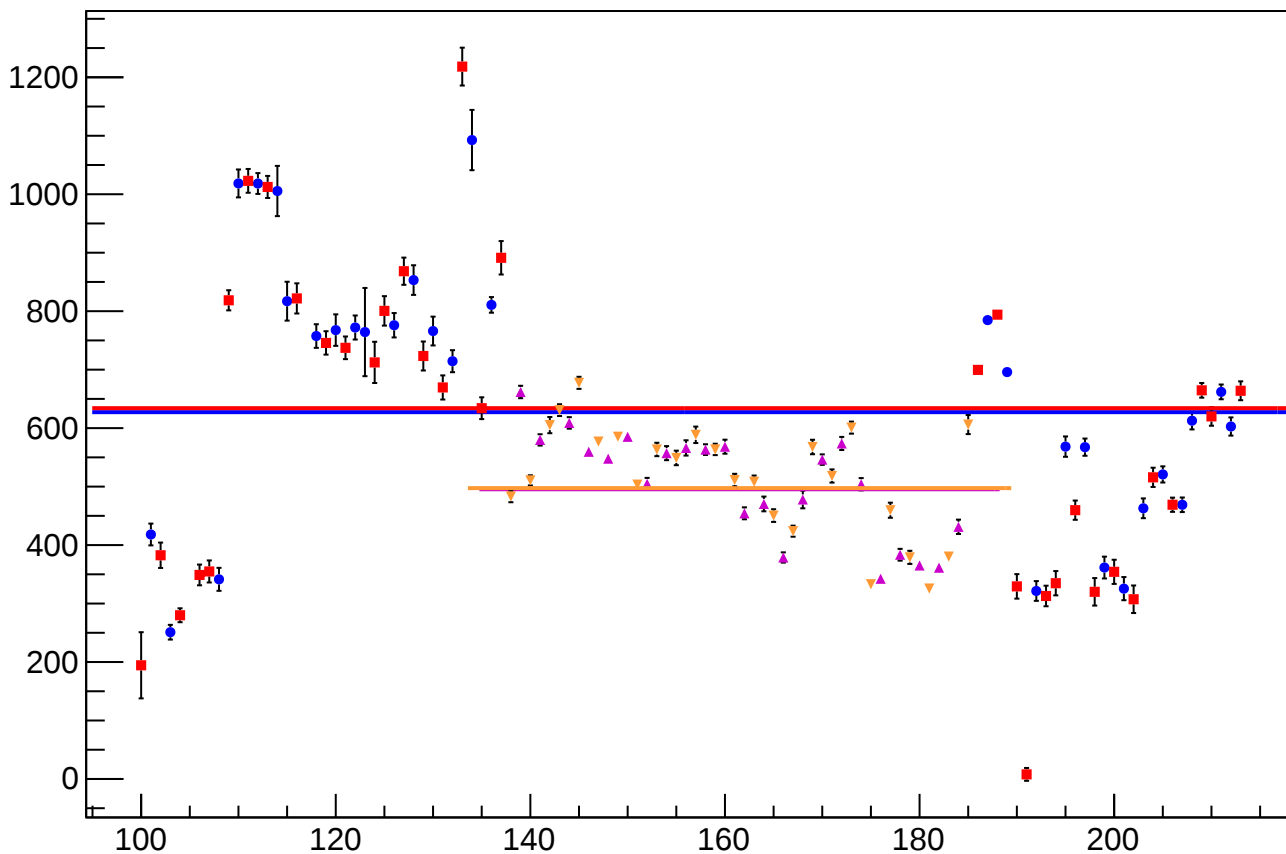
Right: 14.246 ± 1.660 $\chi^2/\text{NDF}: 1762.6/63$

In: -1.698 ± 1.298 $\chi^2/\text{NDF}: 1547.8/52$

Out: 2.080 ± 1.220 $\chi^2/\text{NDF}: 1736.6/58$

All: 0.307 ± 0.889 $\chi^2/\text{NDF}: 3288.9/111$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 627.306+/-2.947 χ^2/NDF : 4222.9/29

Left Out: 497.381+/-1.966 χ^2/NDF : 2614.6/24

Right Out: 634.135+/-2.372 χ^2/NDF : 9632.3/33

Left In: 495.454+/-1.992 χ^2/NDF : 2253.8/22

Left: 496.430+/-1.399 χ^2/NDF : 4868.9/47

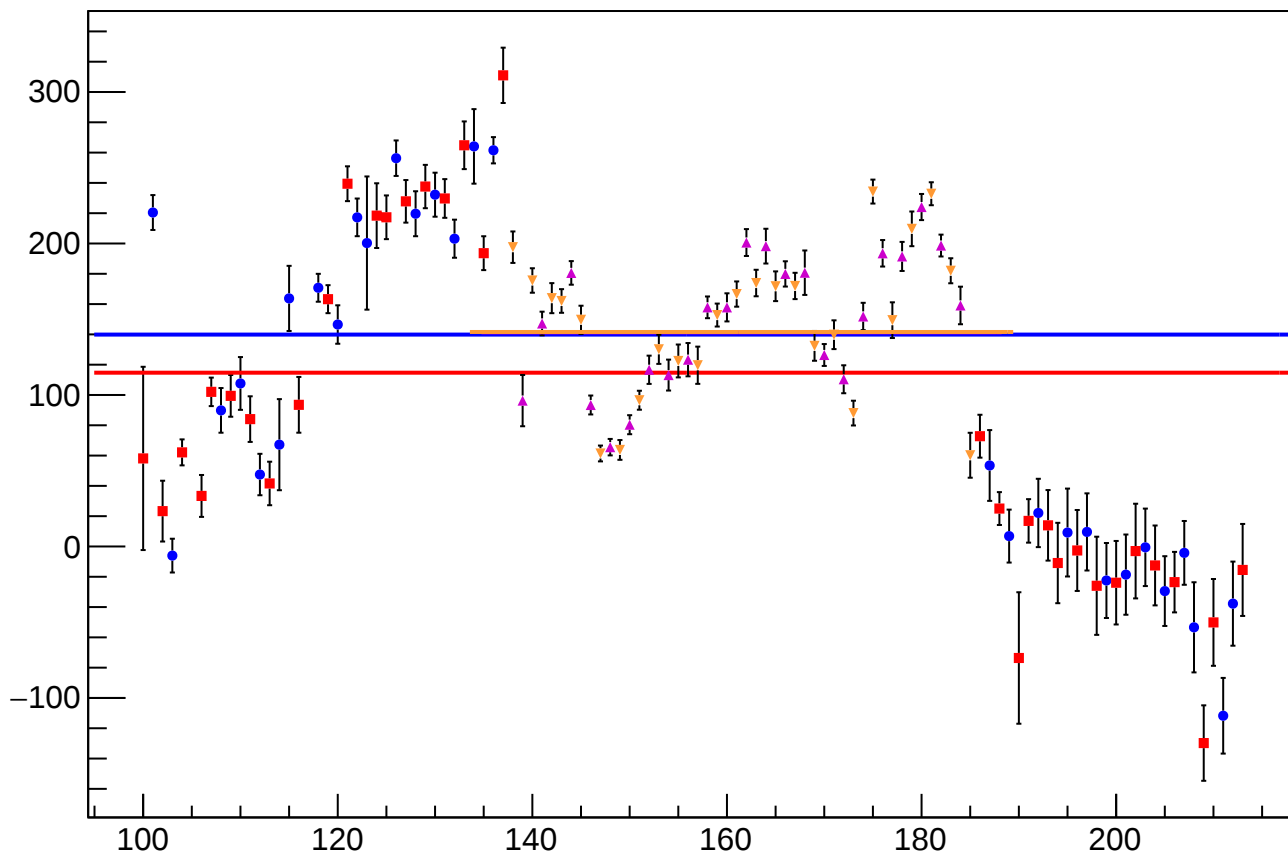
Right: 631.450+/-1.848 χ^2/NDF : 13858.5/63

In: 536.812+/-1.650 χ^2/NDF : 7850.8/52

Out: 553.060+/-1.514 χ^2/NDF : 14217.1/58

All: 545.637+/-1.116 χ^2/NDF : 22120.5/111

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 139.869 $\pm$ 2.917 χ^2 /NDF: 1295.8/29

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 114.714 $\pm$ 2.649 χ^2 /NDF: 1304.0/33

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

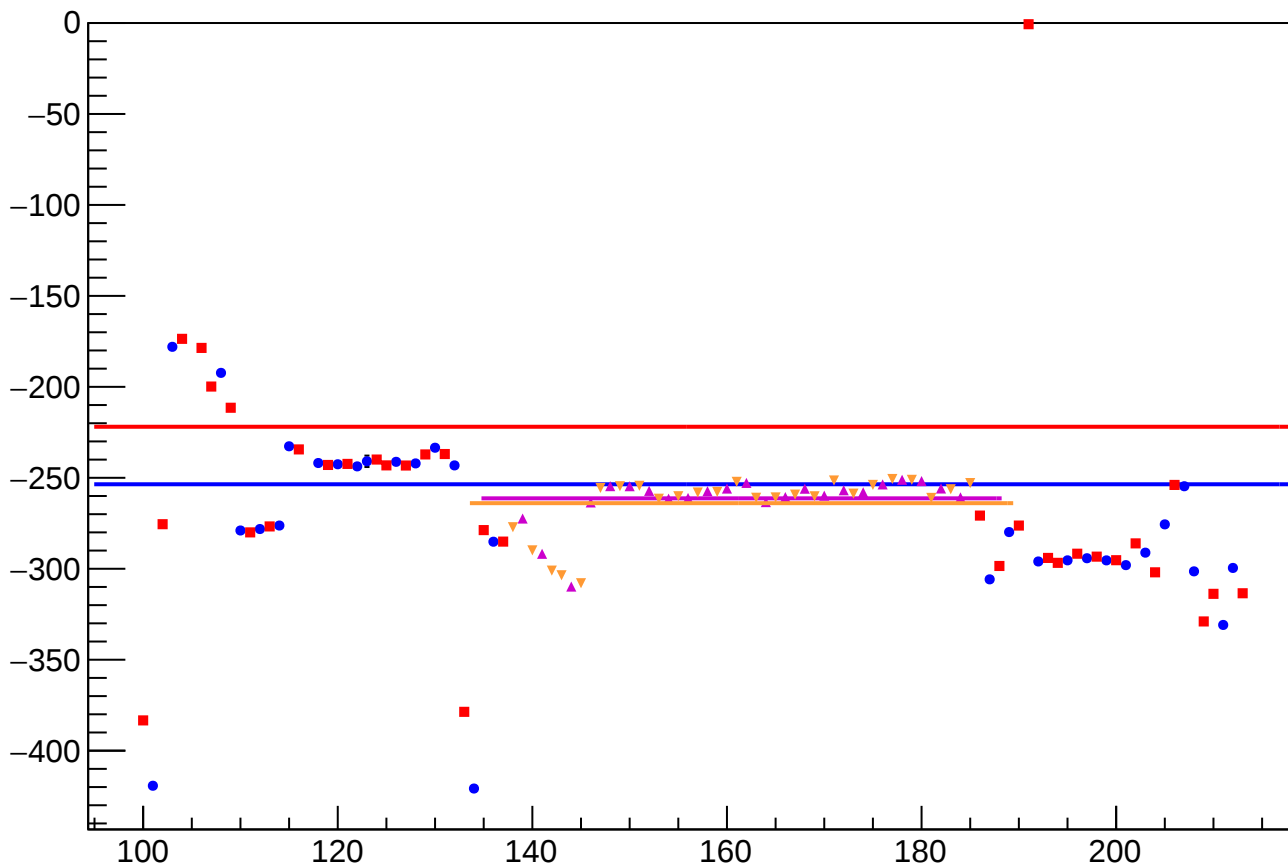
Right: 126.083 $\pm$ 1.961 χ^2 /NDF: 2640.5/63

In: 140.966 $\pm$ 1.499 χ^2 /NDF:2037.3/52

Out: 133.760 $\pm$ 1.430 χ^2 /NDF:2336.5/58

All: 137.192 $\pm$ 1.035 χ^2 /NDF: 4385.8/111

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -253.551 ± 0.135 $\chi^2/\text{NDF}: 202814.2/29$

Left Out: -263.943 ± 0.081 $\chi^2/\text{NDF}: 39085.0/24$

Right Out: -221.938 ± 0.121 $\chi^2/\text{NDF}: 510368.6/33$

Left In: -261.286 ± 0.082 $\chi^2/\text{NDF}: 23348.4/22$

Left: -262.627 ± 0.058 $\chi^2/\text{NDF}: 62963.4/47$

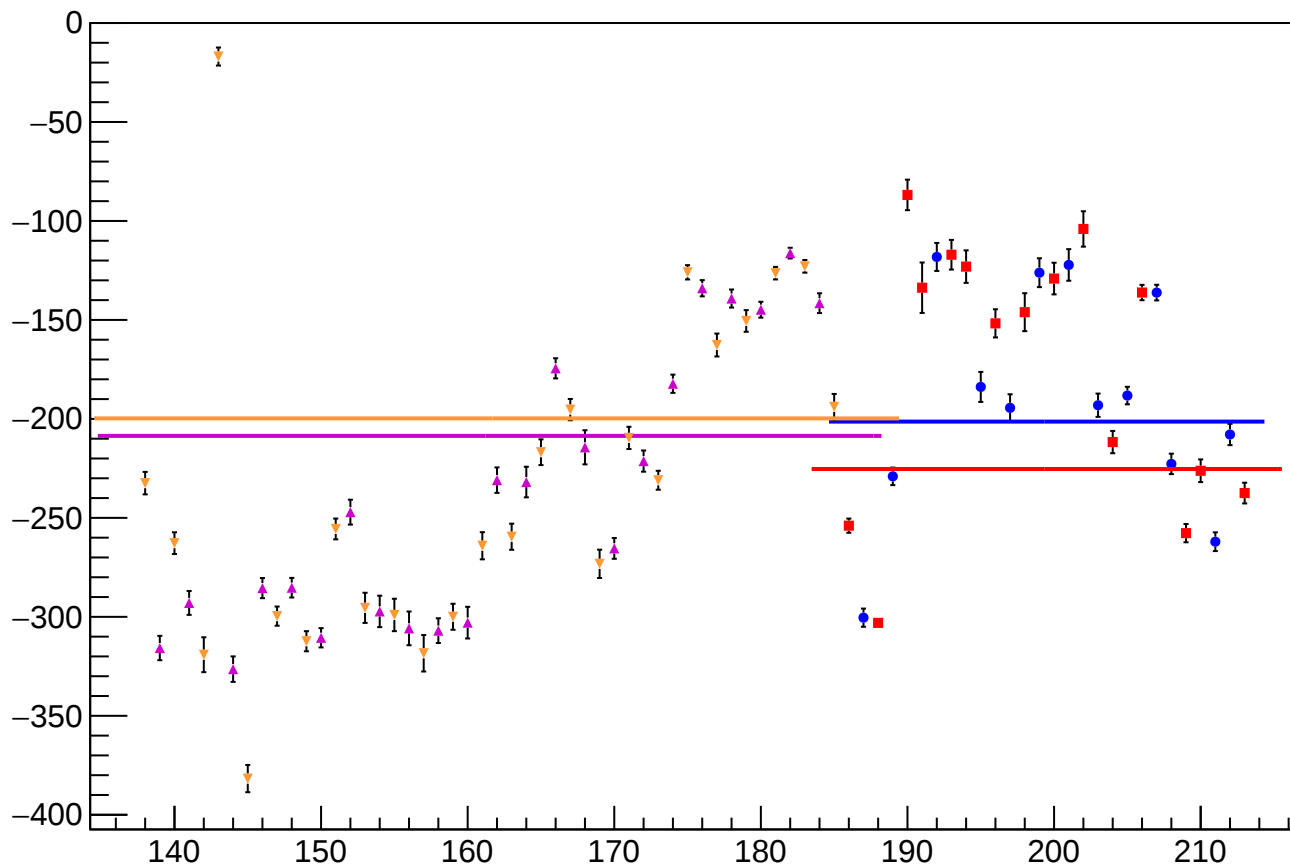
Right: -236.037 ± 0.090 $\chi^2/\text{NDF}: 743389.5/63$

In: -259.211 ± 0.070 $\chi^2/\text{NDF}: 228551.2/52$

Out: -250.960 ± 0.068 $\chi^2/\text{NDF}: 632071.8/58$

All: -254.931 ± 0.049 $\chi^2/\text{NDF}: 867806.5/111$

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -201.360 ± 1.487 $\chi^2/\text{NDF}: 1319.0/12$

Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$

Right Out: -225.309 ± 1.311 $\chi^2/\text{NDF}: 2970.4/14$

Left In: -208.579 ± 1.082 $\chi^2/\text{NDF}: 4805.1/22$

Left: -204.073 ± 0.758 $\chi^2/\text{NDF}: 11200.6/47$

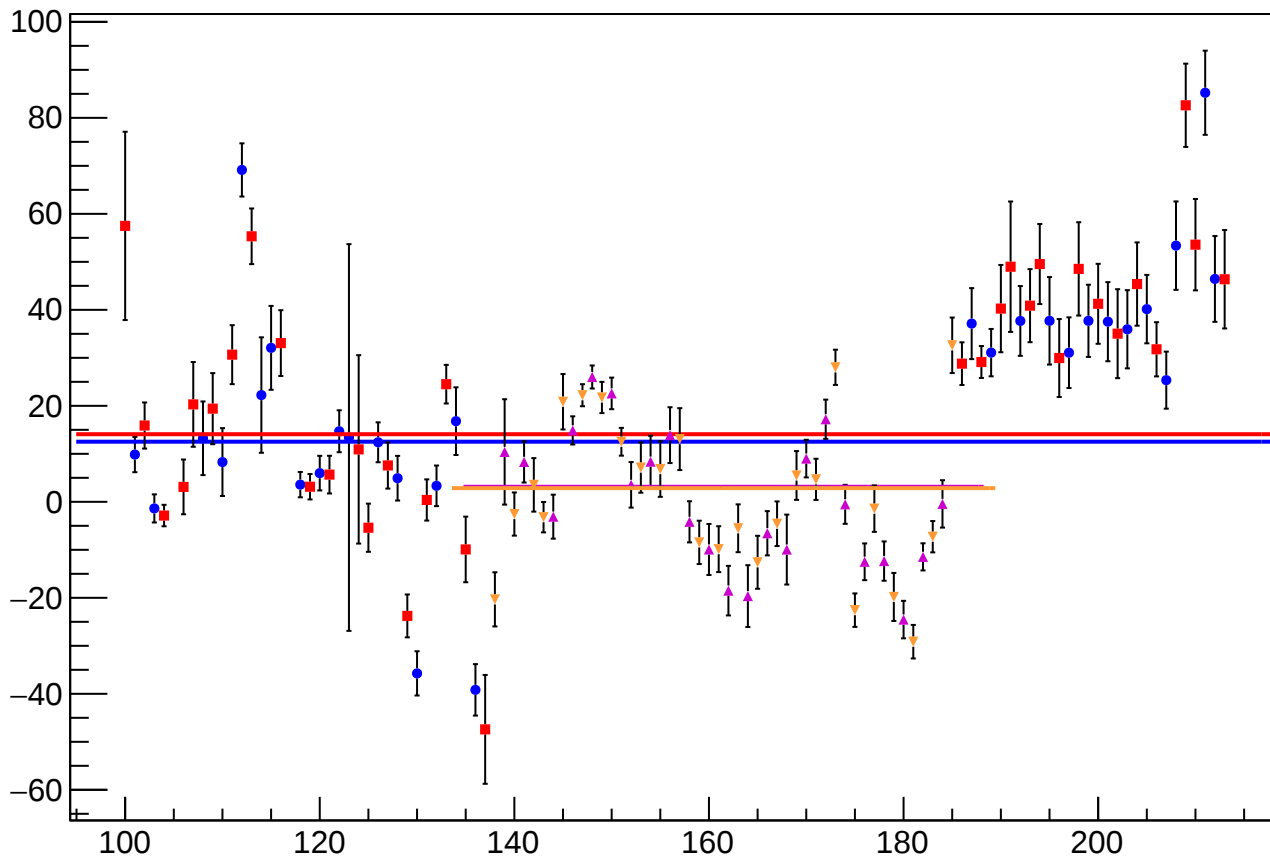
Right: -214.834 ± 0.983 $\chi^2/\text{NDF}: 4435.4/27$

In: -206.079 ± 0.875 $\chi^2/\text{NDF}: 6139.5/35$

Out: -209.862 ± 0.825 $\chi^2/\text{NDF}: 9561.7/39$

All: -208.082 ± 0.600 $\chi^2/\text{NDF}: 15711.2/75$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.527 ± 0.973 $\chi^2/\text{NDF}: 561.3/29$

Left Out: 2.853 ± 0.820 $\chi^2/\text{NDF}: 419.8/24$

Right Out: 14.089 ± 0.915 $\chi^2/\text{NDF}: 523.1/33$

Left In: 3.136 ± 0.857 $\chi^2/\text{NDF}: 319.8/22$

Left: 2.988 ± 0.592 $\chi^2/\text{NDF}: 739.7/47$

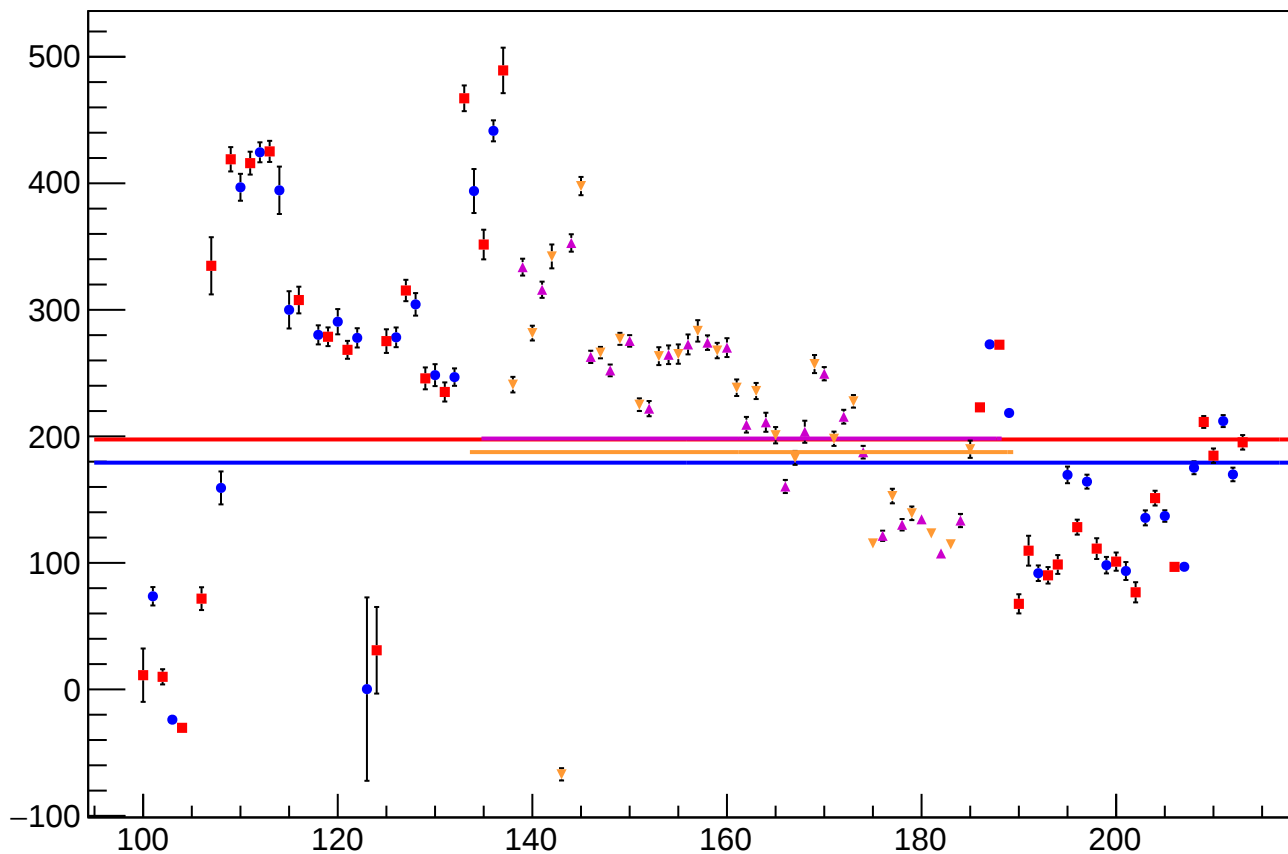
Right: 13.355 ± 0.666 $\chi^2/\text{NDF}: 1085.7/63$

In: 7.239 ± 0.643 $\chi^2/\text{NDF}: 933.6/52$

Out: 7.856 ± 0.611 $\chi^2/\text{NDF}: 1026.5/58$

All: 7.563 ± 0.443 $\chi^2/\text{NDF}: 1960.6/111$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 179.212 $\pm$ 1.128 χ^2 /NDF: 8737.5/29

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF: 7082.0/24

Right Out: 197.544 $\pm$ 0.990 χ^2 /NDF: 12144.8/33

Left In: 198.269 $\pm$ 1.082 χ^2 /NDF: 4515.8/22

Left: 192.839 $\pm$ 0.759 χ^2 /NDF: 11647.5/47

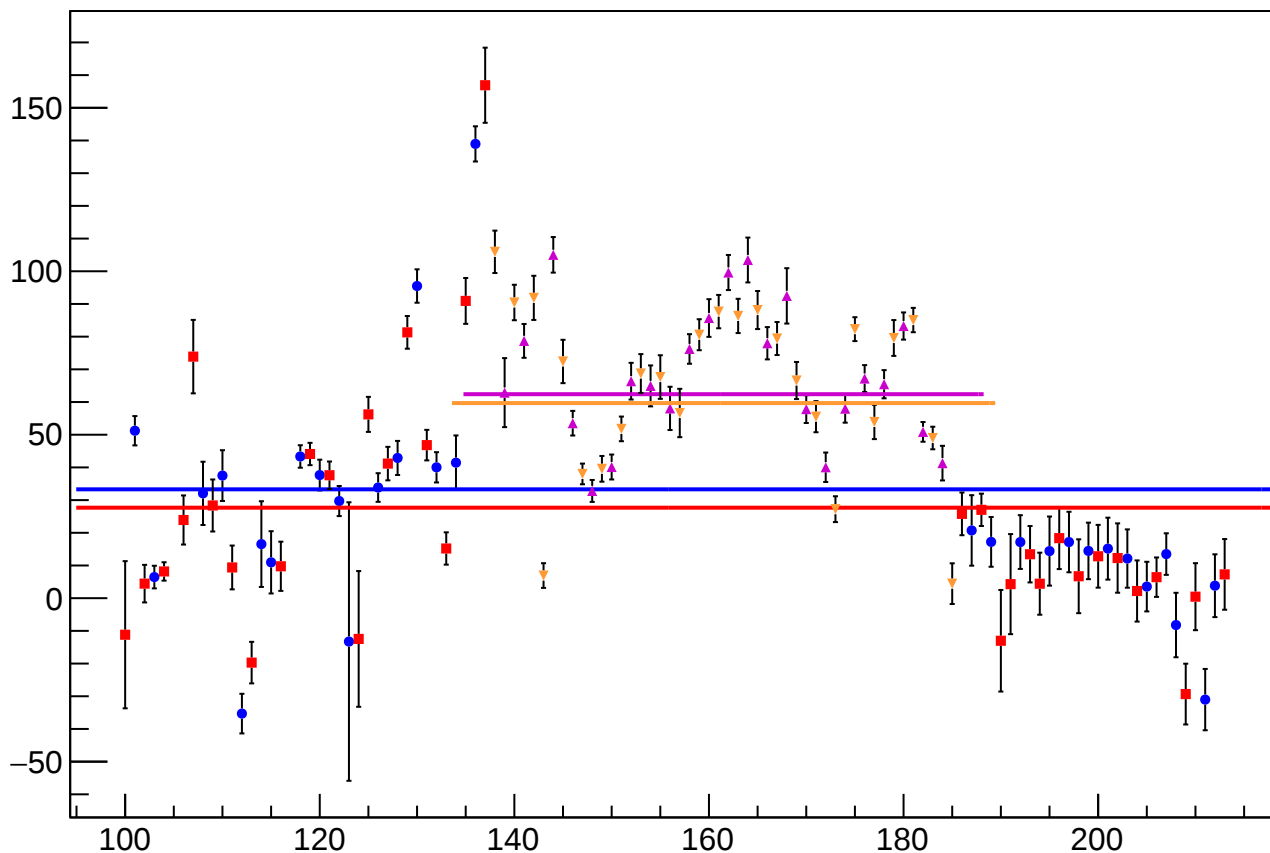
Right: 189.569 $\pm$ 0.744 χ^2 /NDF: 21031.5/63

In: 189.144 $\pm$ 0.781 χ^2 /NDF: 13401.9/52

Out: 192.922 $\pm$ 0.725 χ^2 /NDF: 19273.9/58

All: 191.171 $\pm$ 0.531 χ^2 /NDF: 32688.4/111

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 33.295 $\pm$ 1.134 χ^2 /NDF: 892.1/29

Left Out: 59.682 $\pm$ 0.941 χ^2 /NDF:757.6/24

Right Out: 27.682 $\pm$ 1.090 χ^2 /NDF: 662.2/33

Left In: 62.400 $\pm$ 0.974 χ^2 /NDF:406.3/22

Left: 60.993 $\pm$ 0.677 χ^2 /NDF: 1167.9/47

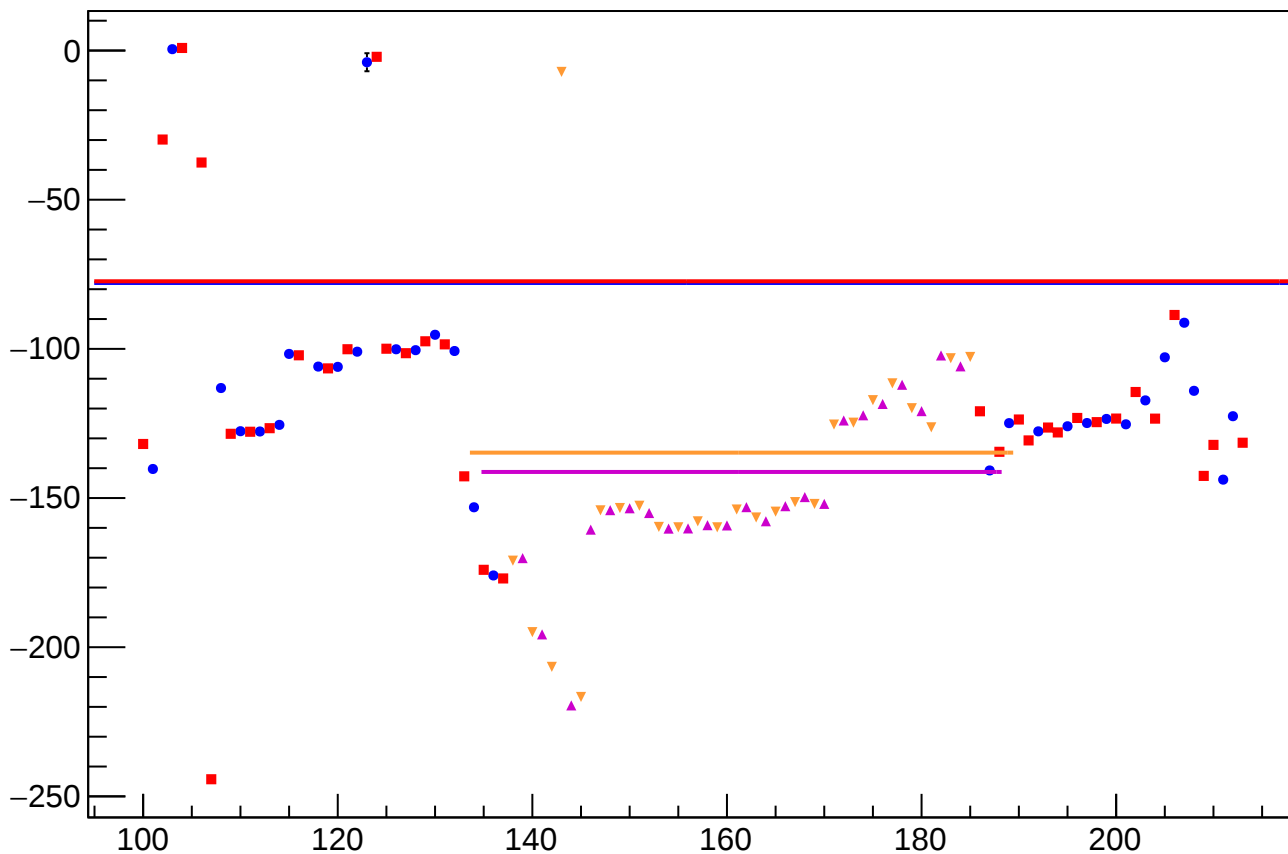
Right: 30.377 $\pm$ 0.786 χ^2 /NDF: 1567.0/63

In: 50.038 $\pm$ 0.739 χ^2 /NDF:1677.5/52

Out: 46.018 $\pm$ 0.712 χ^2 /NDF:1913.8/58

All: 47.954 $\pm$ 0.513 χ^2 /NDF: 3606.7/111

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -77.904 ± 0.051 $\chi^2/\text{NDF}: 1446713.8/29$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -77.340 ± 0.049 $\chi^2/\text{NDF}: 1443026.2/33$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

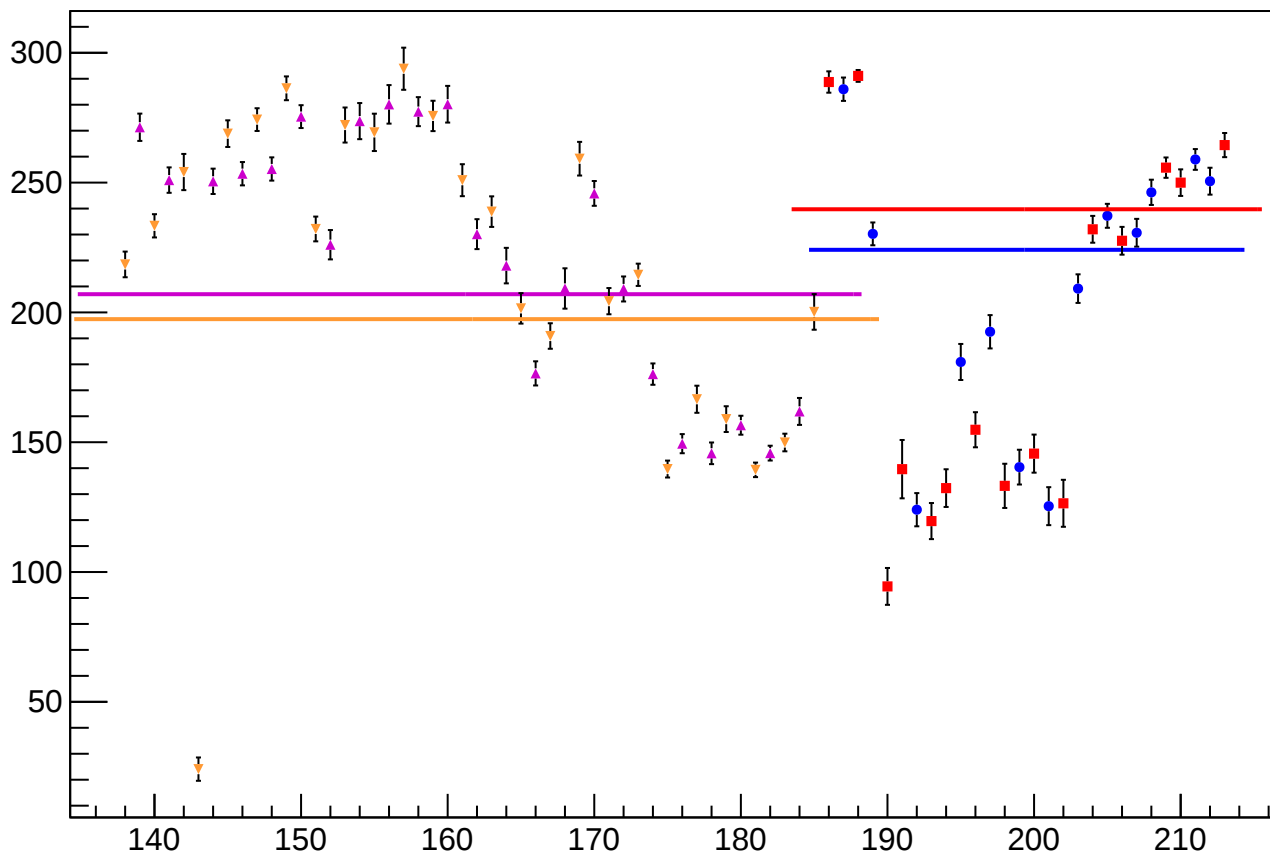
Right: -77.613 ± 0.035 $\chi^2/\text{NDF}: 2889803.8/63$

In: -113.104 ± 0.034 $\chi^2/\text{NDF}: 2663375.5/52$

Out: -108.833 ± 0.033 $\chi^2/\text{NDF}: 3000293.6/58$

All: -110.917 ± 0.024 $\chi^2/\text{NDF}: 5671864.5/111$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 224.112 ± 1.461 $\chi^2/\text{NDF}: 977.0/12$

Left Out: 197.408 ± 0.963 $\chi^2/\text{NDF}: 4384.2/24$

Right Out: 239.729 ± 1.283 $\chi^2/\text{NDF}: 2357.2/14$

Left In: 207.014 ± 0.990 $\chi^2/\text{NDF}: 2611.5/22$

Left: 202.077 ± 0.690 $\chi^2/\text{NDF}: 7044.1/47$

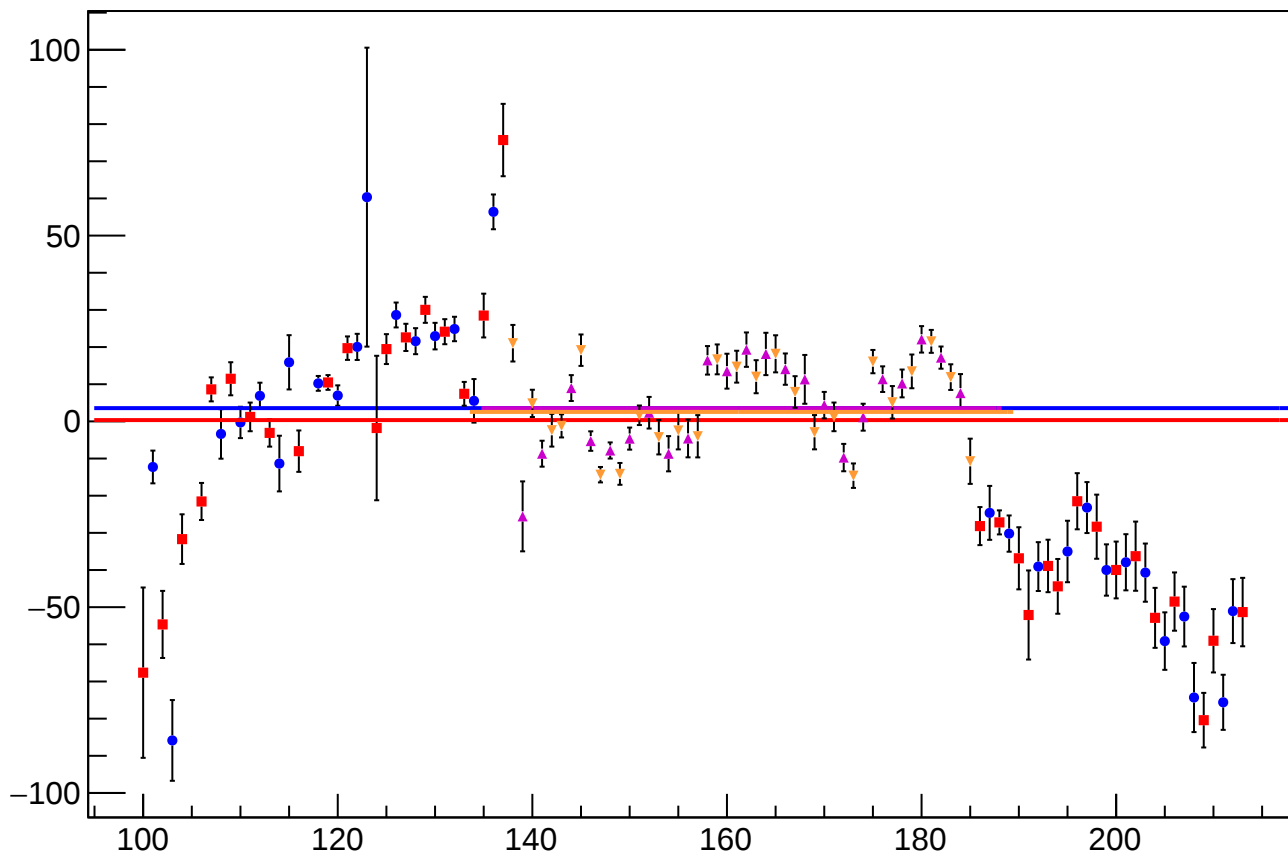
Right: 232.929 ± 0.964 $\chi^2/\text{NDF}: 3398.7/27$

In: 212.397 ± 0.820 $\chi^2/\text{NDF}: 3682.3/35$

Out: 212.657 ± 0.770 $\chi^2/\text{NDF}: 7437.5/39$

All: 212.535 ± 0.561 $\chi^2/\text{NDF}: 11119.9/75$

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.567 ± 0.849 $\chi^2/\text{NDF}: 991.0/29$

Left Out: 2.548 ± 0.741 $\chi^2/\text{NDF}: 275.4/24$

Right Out: 0.347 ± 0.810 $\chi^2/\text{NDF}: 992.7/33$

Left In: 3.559 ± 0.774 $\chi^2/\text{NDF}: 192.0/22$

Left: 3.031 ± 0.535 $\chi^2/\text{NDF}: 468.3/47$

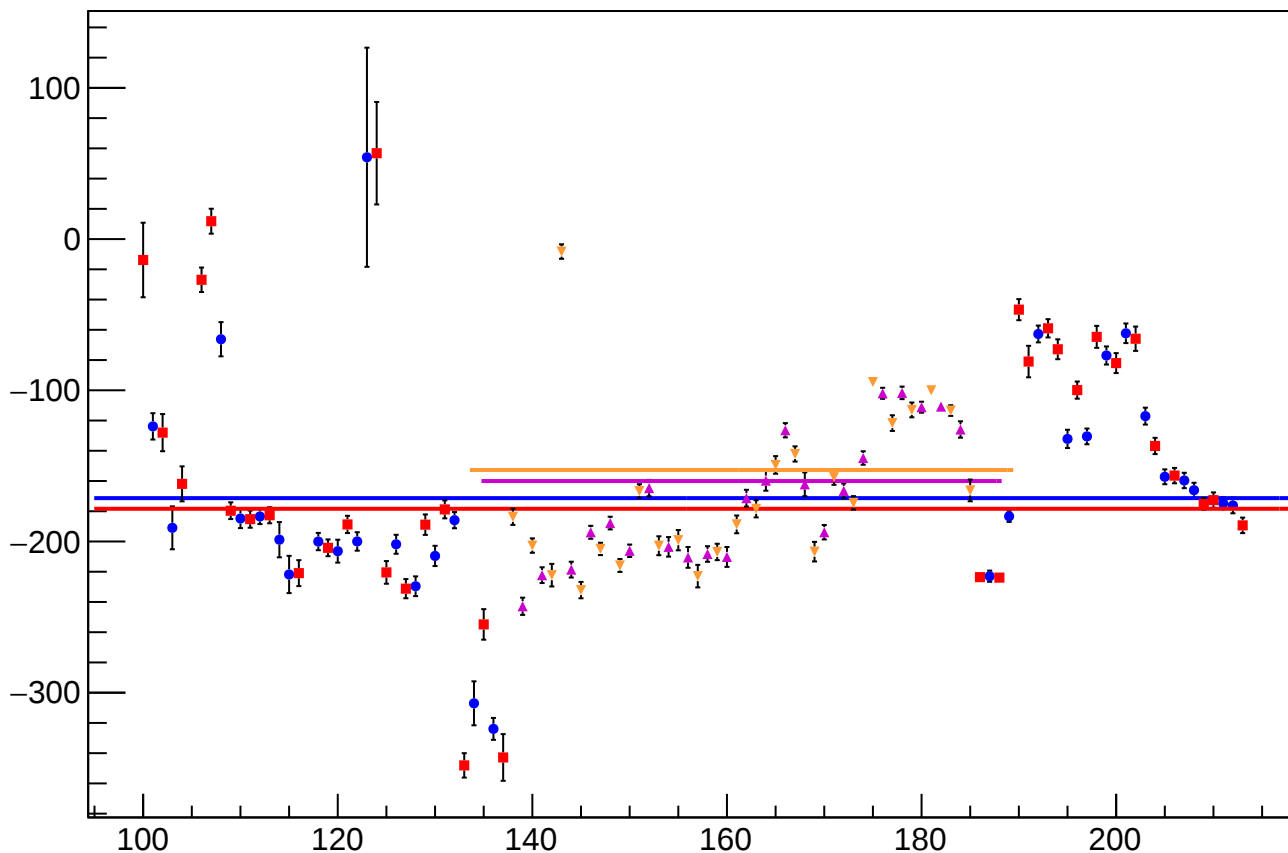
Right: 1.881 ± 0.586 $\chi^2/\text{NDF}: 1991.2/63$

In: 3.563 ± 0.572 $\chi^2/\text{NDF}: 1183.0/52$

Out: 1.545 ± 0.547 $\chi^2/\text{NDF}: 1272.2/58$

All: 2.508 ± 0.395 $\chi^2/\text{NDF}: 2461.6/111$

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.321 ± 1.081 χ^2/NDF : 2233.7/29

Left Out: -152.738 ± 0.967 χ^2/NDF : 3077.8/24

Right Out: -178.371 ± 0.947 χ^2/NDF : 4584.8/33

Left In: -160.021 ± 0.989 χ^2/NDF : 2024.4/22

Left: -156.299 ± 0.691 χ^2/NDF : 5129.9/47

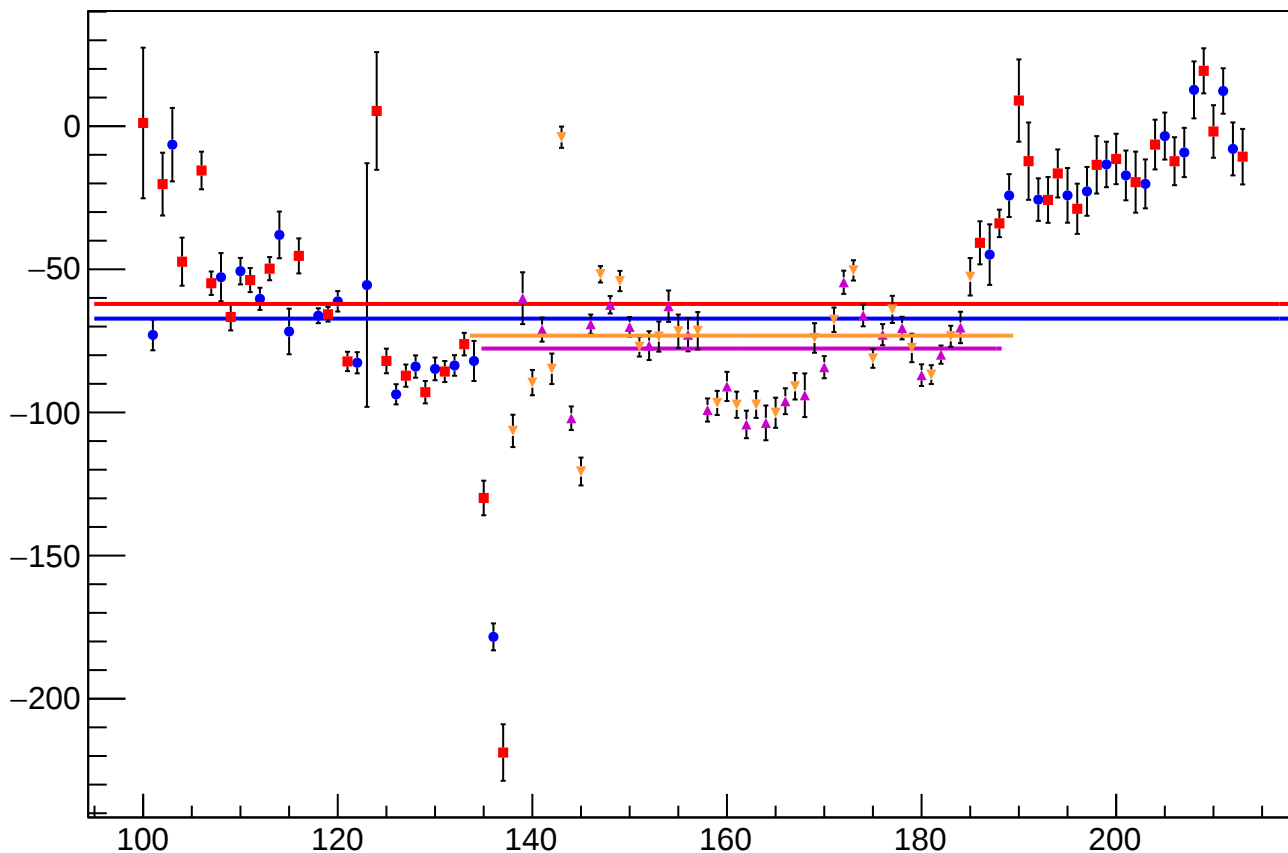
Right: -175.310 ± 0.712 χ^2/NDF : 6842.5/63

In: -165.169 ± 0.730 χ^2/NDF : 4317.6/52

Out: -165.825 ± 0.677 χ^2/NDF : 8021.3/58

All: -165.521 ± 0.496 χ^2/NDF : 12339.3/111

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -67.220 ± 0.985 χ^2/NDF : 1292.6/29

Left Out: -73.165 ± 0.851 χ^2/NDF : 788.6/24

Right Out: -62.095 ± 0.948 χ^2/NDF : 1175.8/33

Left In: -77.678 ± 0.883 χ^2/NDF : 248.3/22

Left: -75.339 ± 0.613 χ^2/NDF : 1050.4/47

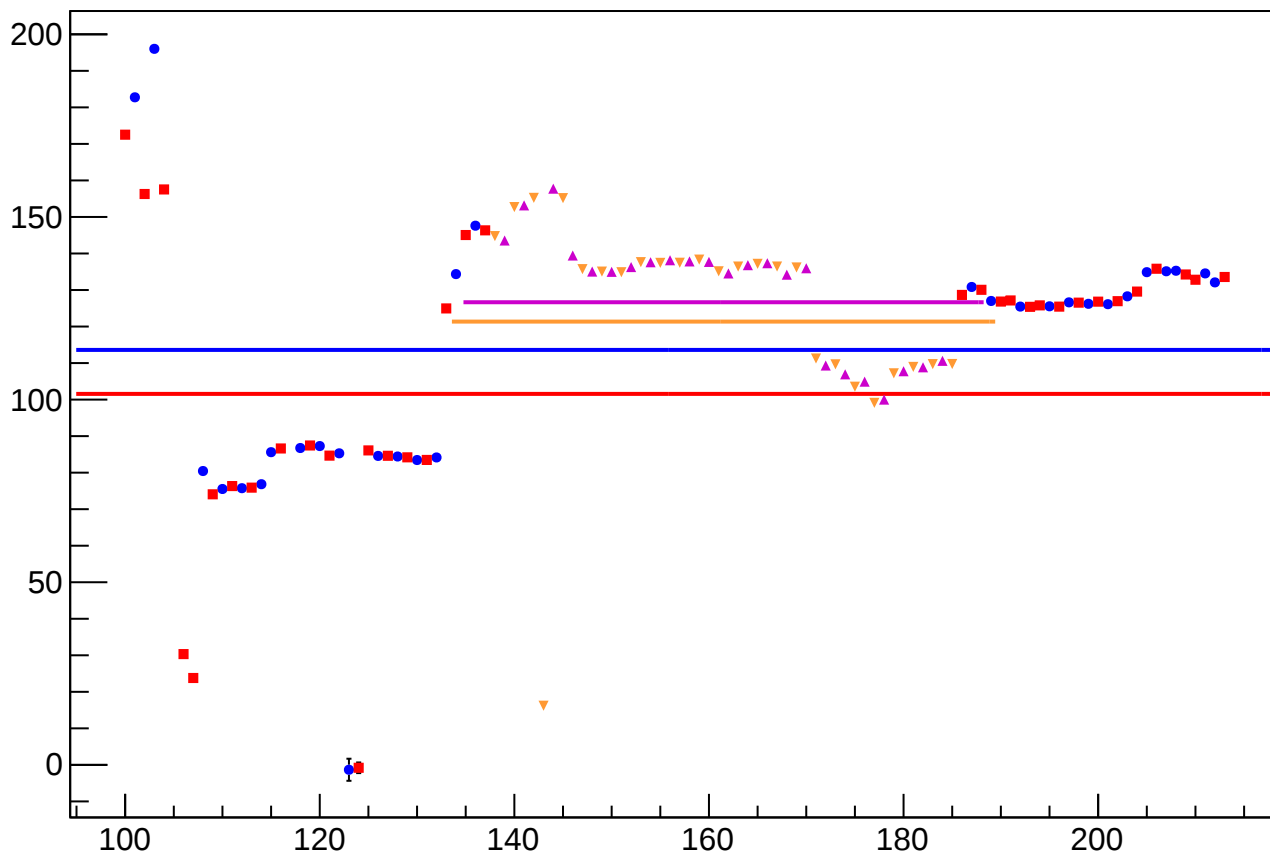
Right: -64.558 ± 0.683 χ^2/NDF : 2482.5/63

In: -73.022 ± 0.658 χ^2/NDF : 1603.4/52

Out: -68.224 ± 0.633 χ^2/NDF : 2039.9/58

All: -70.533 ± 0.456 χ^2/NDF : 3670.8/111

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 113.602 $\pm$ 0.055 χ^2 /NDF: 324354.5/29

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF: 481977.3/24

Right Out: 101.562 $\pm$ 0.050 χ^2 /NDF: 599530.2/33

Left In: 126.653 $\pm$ 0.041 χ^2 /NDF: 163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2 /NDF: 653496.6/47

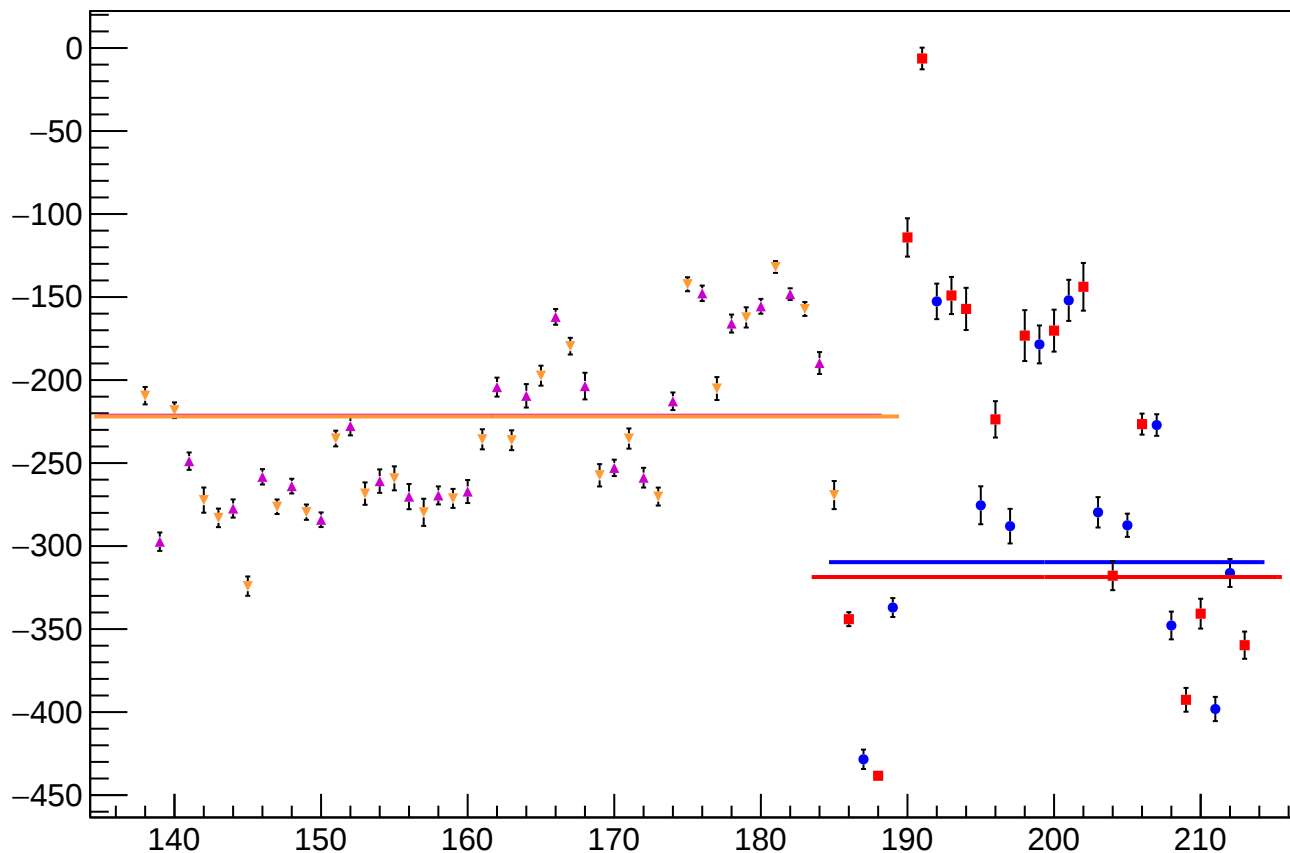
Right: 107.051 $\pm$ 0.037 χ^2 /NDF: 950116.4/63

In: 121.961 $\pm$ 0.033 χ^2 /NDF: 523690.2/52

Out: 113.597 $\pm$ 0.031 χ^2 /NDF: 1176056.6/58

All: 117.591 $\pm$ 0.023 χ^2 /NDF: 1733574.9/111

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -309.682 ± 2.219 χ^2/NDF : 1310.6/12

Left Out: -221.934 ± 1.084 χ^2/NDF : 2578.4/24

Right Out: -318.643 ± 1.771 χ^2/NDF : 5391.6/14

Left In: -221.483 ± 1.102 χ^2/NDF : 2149.8/22

Left: -221.712 ± 0.773 χ^2/NDF : 4728.2/47

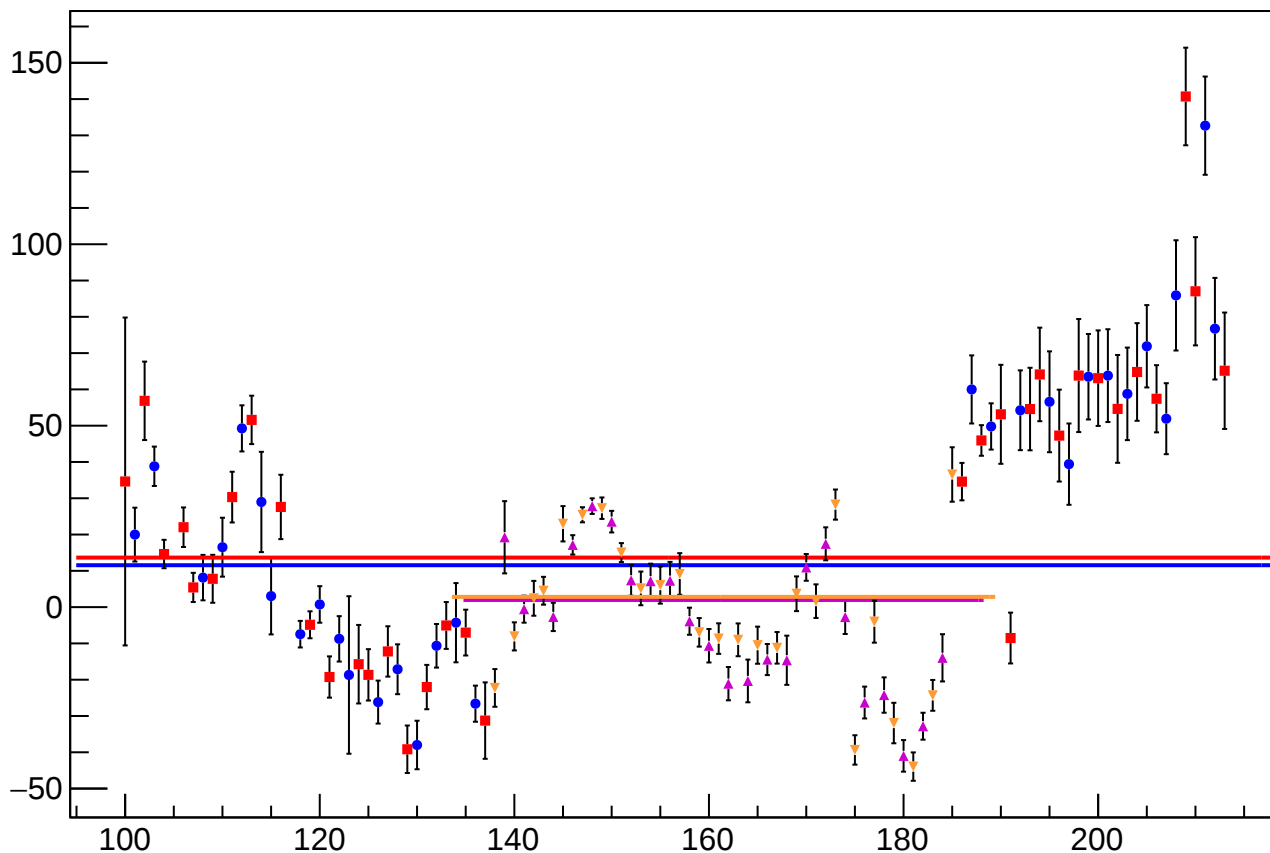
Right: -315.154 ± 1.384 χ^2/NDF : 6712.2/27

In: -238.943 ± 0.987 χ^2/NDF : 4728.0/35

Out: -248.300 ± 0.925 χ^2/NDF : 10138.2/39

All: -243.926 ± 0.675 χ^2/NDF : 14914.0/75

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.549+/-1.371 χ^2/NDF : 611.4/29

Left Out: 2.832+/-0.807 χ^2/NDF : 686.9/24

Right Out: 13.646+/-1.200 χ^2/NDF : 622.6/33

Left In: 1.969+/-0.835 χ^2/NDF : 589.1/22

Left: 2.415+/-0.580 χ^2/NDF : 1276.5/47

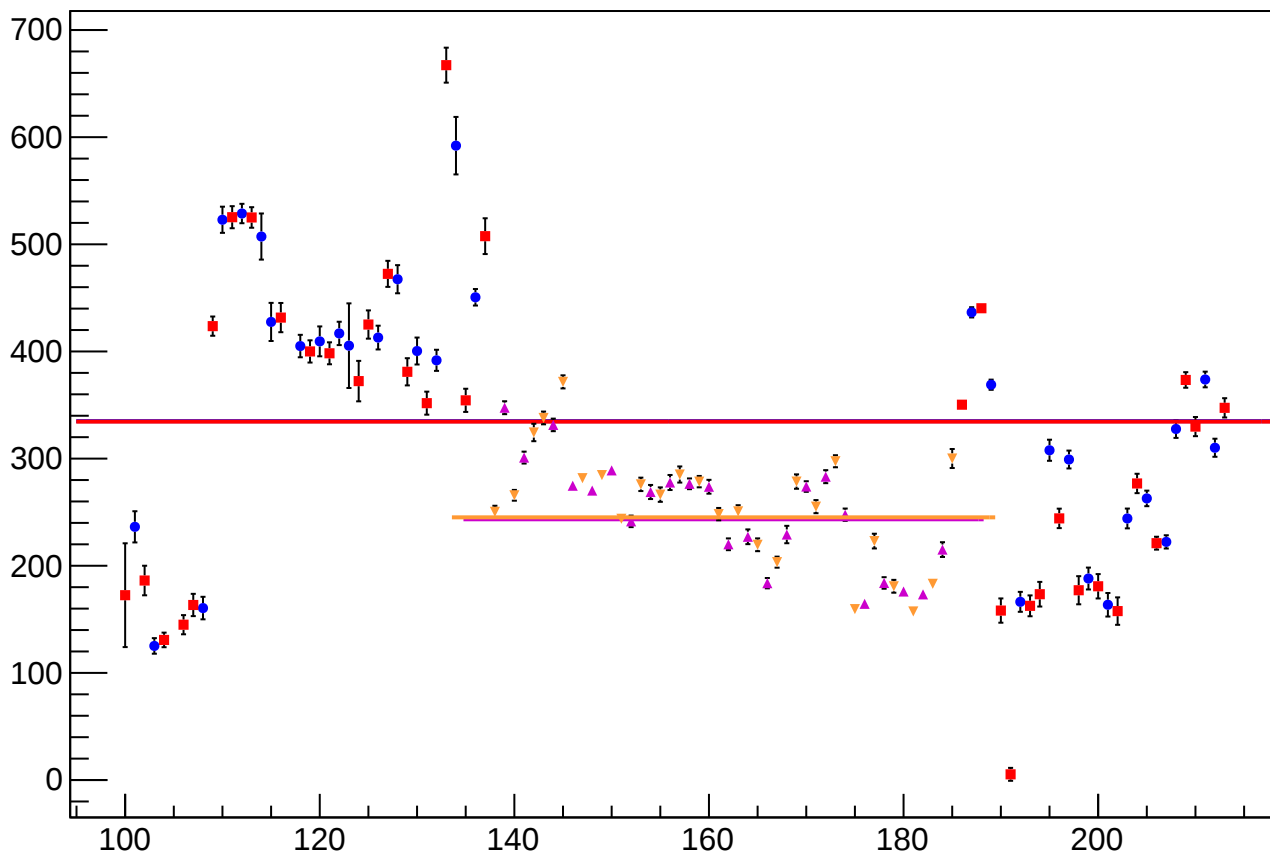
Right: 12.737+/-0.903 χ^2/NDF : 1235.4/63

In: 4.560+/-0.713 χ^2/NDF : 1236.1/52

Out: 6.200+/-0.670 χ^2/NDF : 1365.4/58

All: 5.431+/-0.488 χ^2/NDF : 2604.4/111

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 334.943 $\pm$ 1.633 χ^2 /NDF: 4474.1/29

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 334.538 $\pm$ 1.316 χ^2 /NDF: 10099.5/33

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

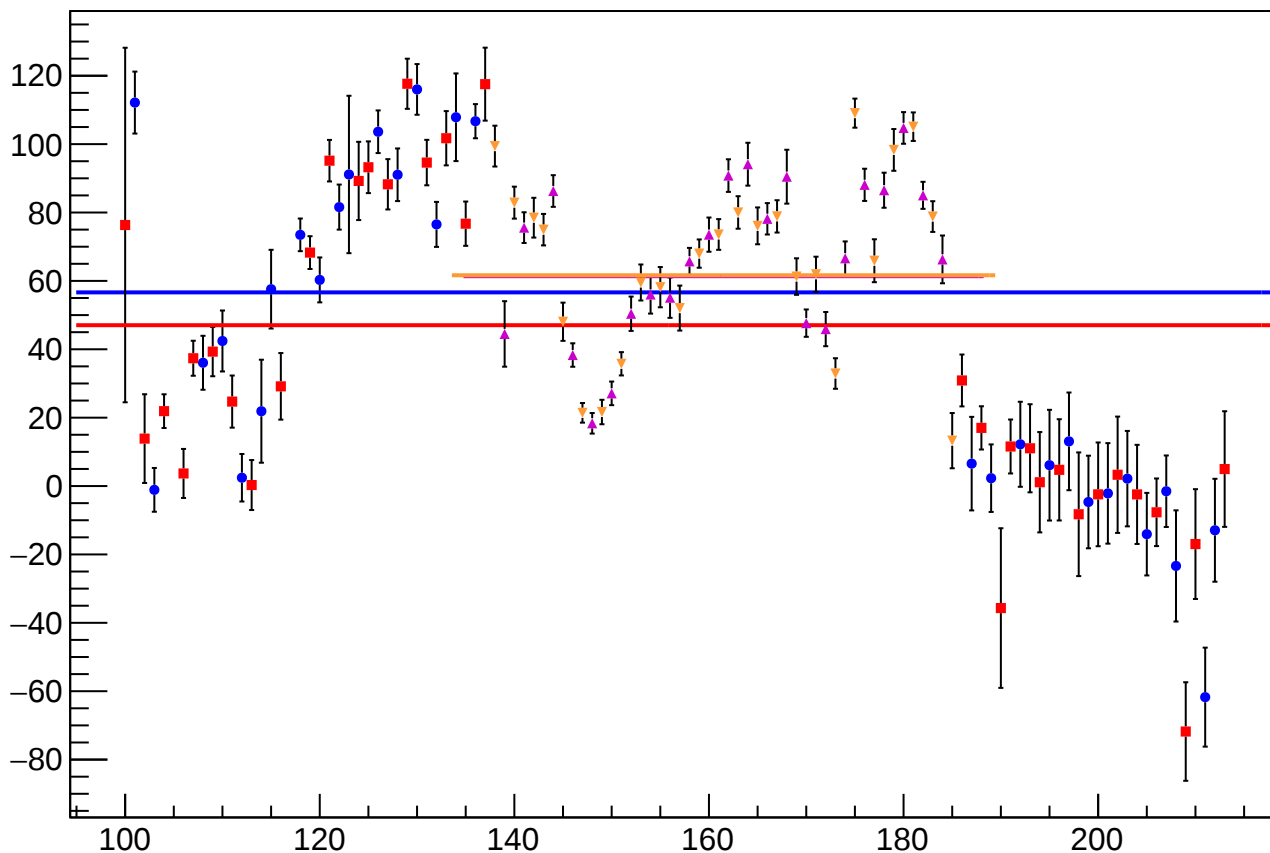
Right: 334.697 $\pm$ 1.025 χ^2 /NDF: 14573.7/63

In: 271.728 $\pm$ 0.909 χ^2 /NDF:8882.4/52

Out: 281.228 $\pm$ 0.836 χ^2 /NDF:15448.3/58

All: 276.874 $\pm$ 0.615 χ^2 /NDF: 24389.9/111

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 56.642 ± 1.591 $\chi^2/\text{NDF}: 795.1/29$

Left Out: 61.647 ± 0.936 $\chi^2/\text{NDF}: 871.5/24$

Right Out: 47.045 ± 1.431 $\chi^2/\text{NDF}: 792.3/33$

Left In: 61.375 ± 0.961 $\chi^2/\text{NDF}: 699.7/22$

Left: 61.515 ± 0.671 $\chi^2/\text{NDF}: 1571.3/47$

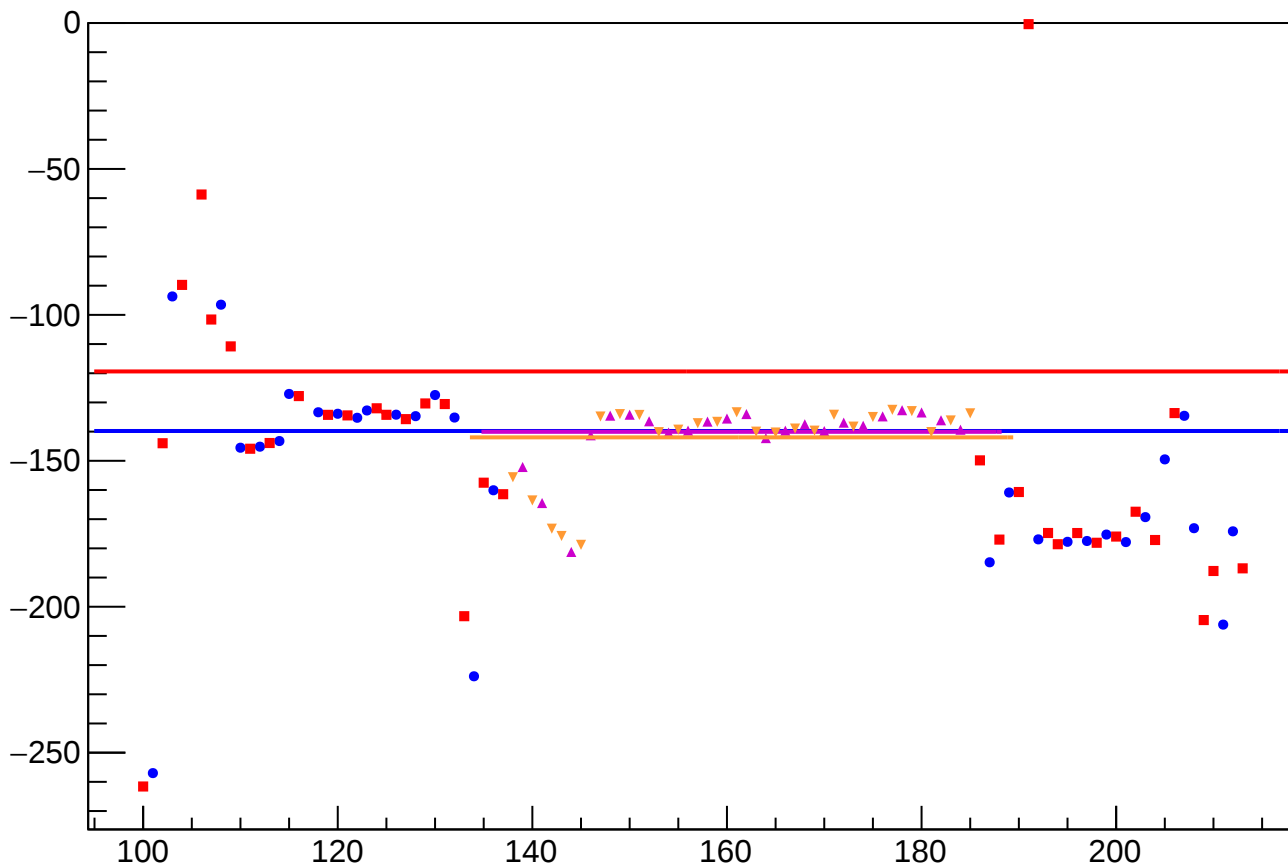
Right: 51.335 ± 1.064 $\chi^2/\text{NDF}: 1607.5/63$

In: 60.110 ± 0.823 $\chi^2/\text{NDF}: 1501.2/52$

Out: 57.270 ± 0.783 $\chi^2/\text{NDF}: 1736.8/58$

All: 58.621 ± 0.567 $\chi^2/\text{NDF}: 3244.2/111$

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -139.785+/-0.075 χ^2/NDF : 248326.6/29

Left Out: -141.969+/-0.045 χ^2/NDF : 80252.6/24

Right Out: -119.381+/-0.067 χ^2/NDF : 640440.2/33

Left In: -140.068+/-0.045 χ^2/NDF : 48030.7/22

Left: -141.025+/-0.032 χ^2/NDF : 129181.1/47

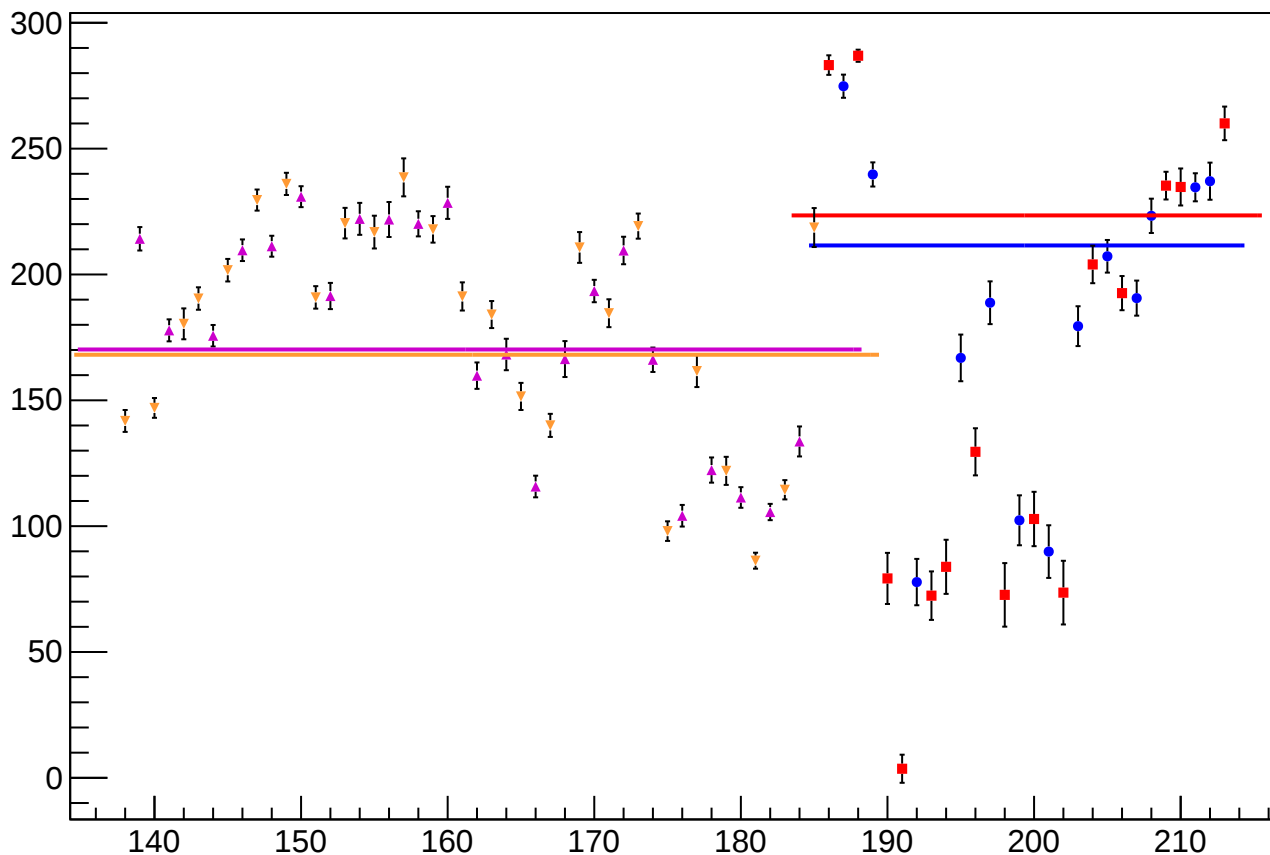
Right: -128.367+/-0.050 χ^2/NDF : 930060.4/63

In: -139.993+/-0.039 χ^2/NDF : 296367.8/52

Out: -134.959+/-0.037 χ^2/NDF : 799939.4/58

All: -137.378+/-0.027 χ^2/NDF : 1105144.2/111

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 211.532 $\pm$ 1.891 χ^2 /NDF: 779.4/12

Left Out: 168.106 $\pm$ 0.970 χ^2 /NDF:2468.8/24

Right Out: 223.467 $\pm$ 1.498 χ^2 /NDF: 3668.4/14

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

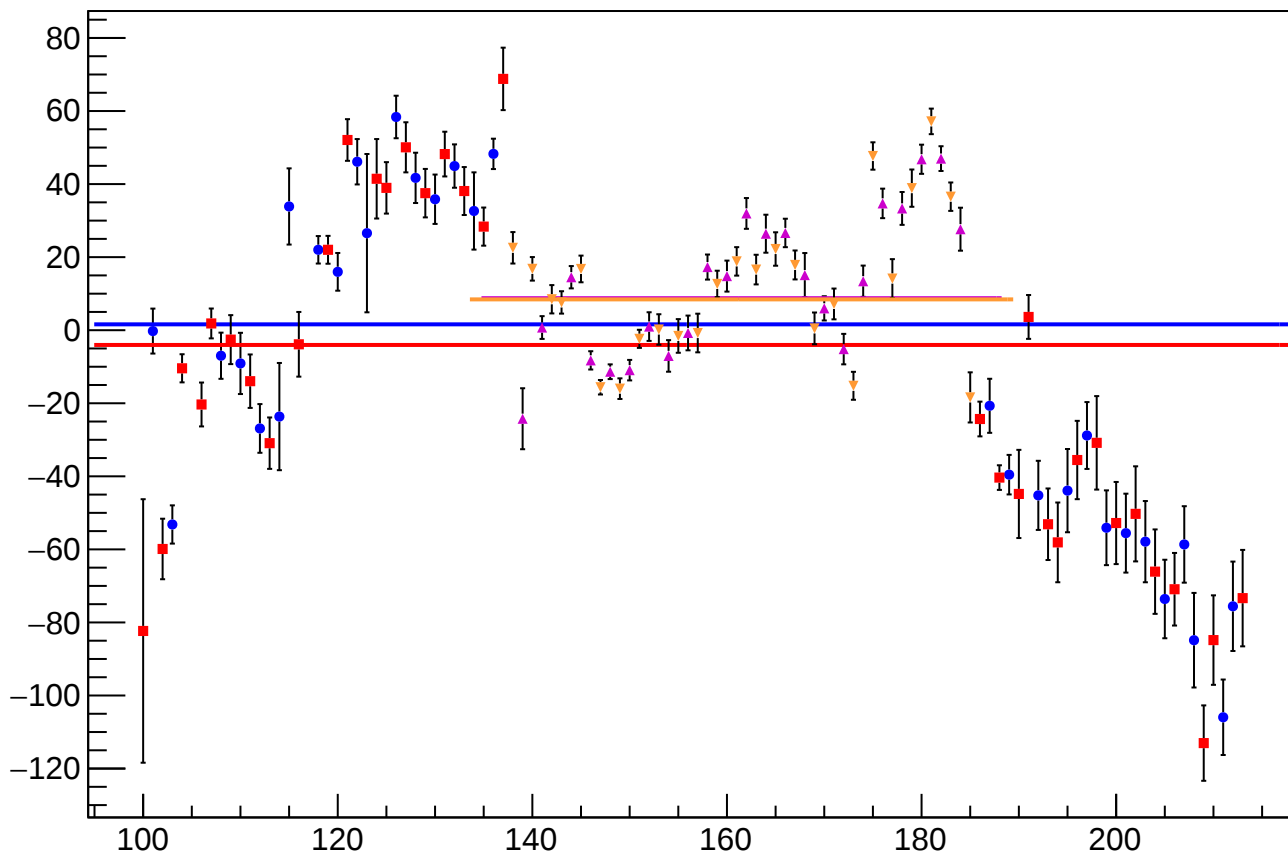
Right: 218.865 $\pm$ 1.174 χ^2 /NDF: 4472.3/27

In: 179.166 $\pm$ 0.881 χ^2 /NDF:3178.0/35

Out: 184.468 $\pm$ 0.814 χ^2 /NDF:7099.4/39

All: 182.024 $\pm$ 0.598 χ^2 /NDF: 10296.9/75

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.604 ± 1.300 $\chi^2/\text{NDF}: 1056.2/29$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: -4.037 ± 1.139 $\chi^2/\text{NDF}: 1101.9/33$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

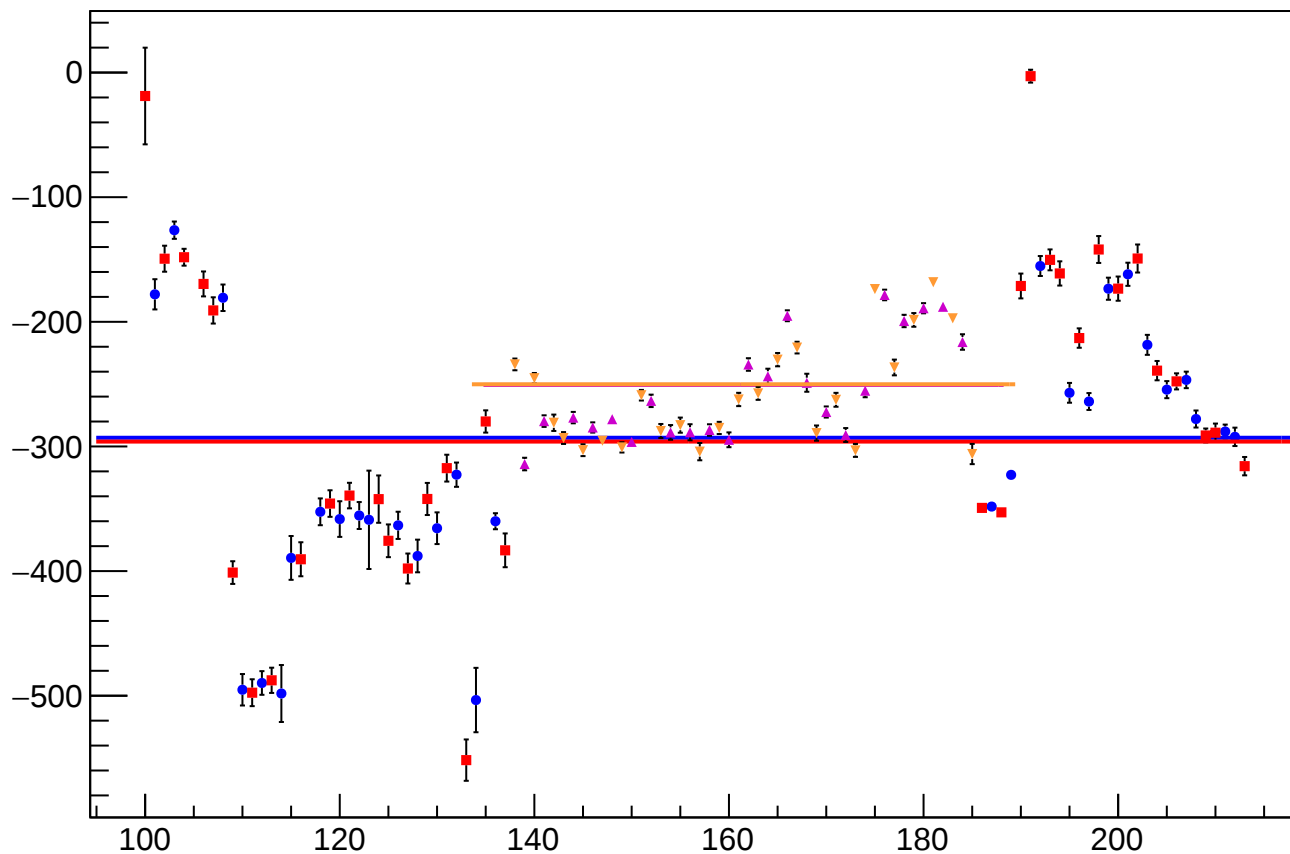
Right: -1.586 ± 0.857 $\chi^2/\text{NDF}: 2168.7/63$

In: 6.950 ± 0.655 $\chi^2/\text{NDF}: 1705.7/52$

Out: 4.820 ± 0.613 $\chi^2/\text{NDF}: 1939.0/58$

All: 5.815 ± 0.448 $\chi^2/\text{NDF}: 3650.3/111$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -293.019 ± 1.442 χ^2/NDF : 3131.9/29

Left Out: -250.119 ± 0.972 χ^2/NDF : 2246.9/24

Right Out: -296.089 ± 1.152 χ^2/NDF : 8118.8/33

Left In: -250.628 ± 0.990 χ^2/NDF : 1937.1/22

Left: -250.369 ± 0.694 χ^2/NDF : 4184.2/47

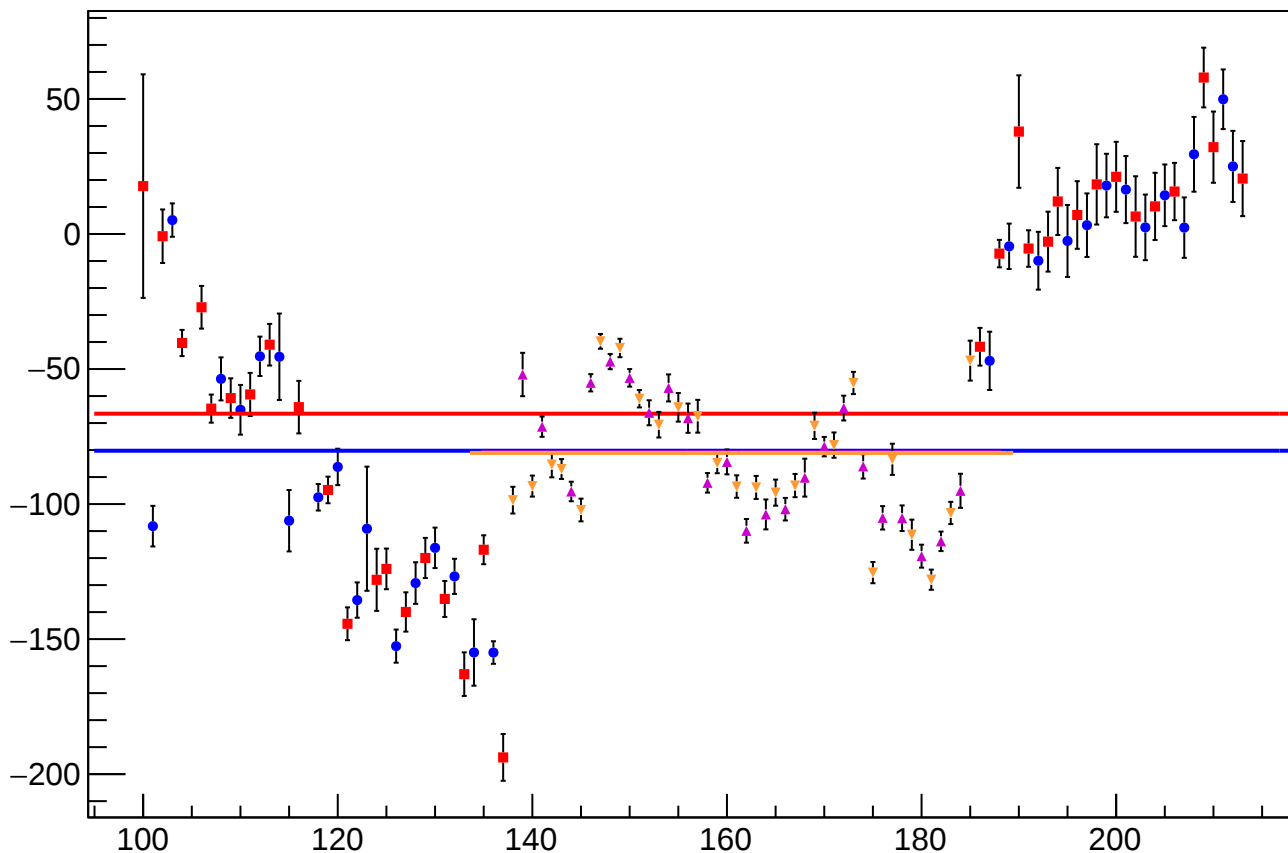
Right: -294.893 ± 0.900 χ^2/NDF : 11253.5/63

In: -264.213 ± 0.816 χ^2/NDF : 5656.2/52

Out: -269.247 ± 0.743 χ^2/NDF : 11295.8/58

All: -266.967 ± 0.549 χ^2/NDF : 16972.8/111

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -80.250 ± 1.509 $\chi^2/\text{NDF}: 1732.5/29$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -66.538 ± 1.363 $\chi^2/\text{NDF}: 1889.9/33$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

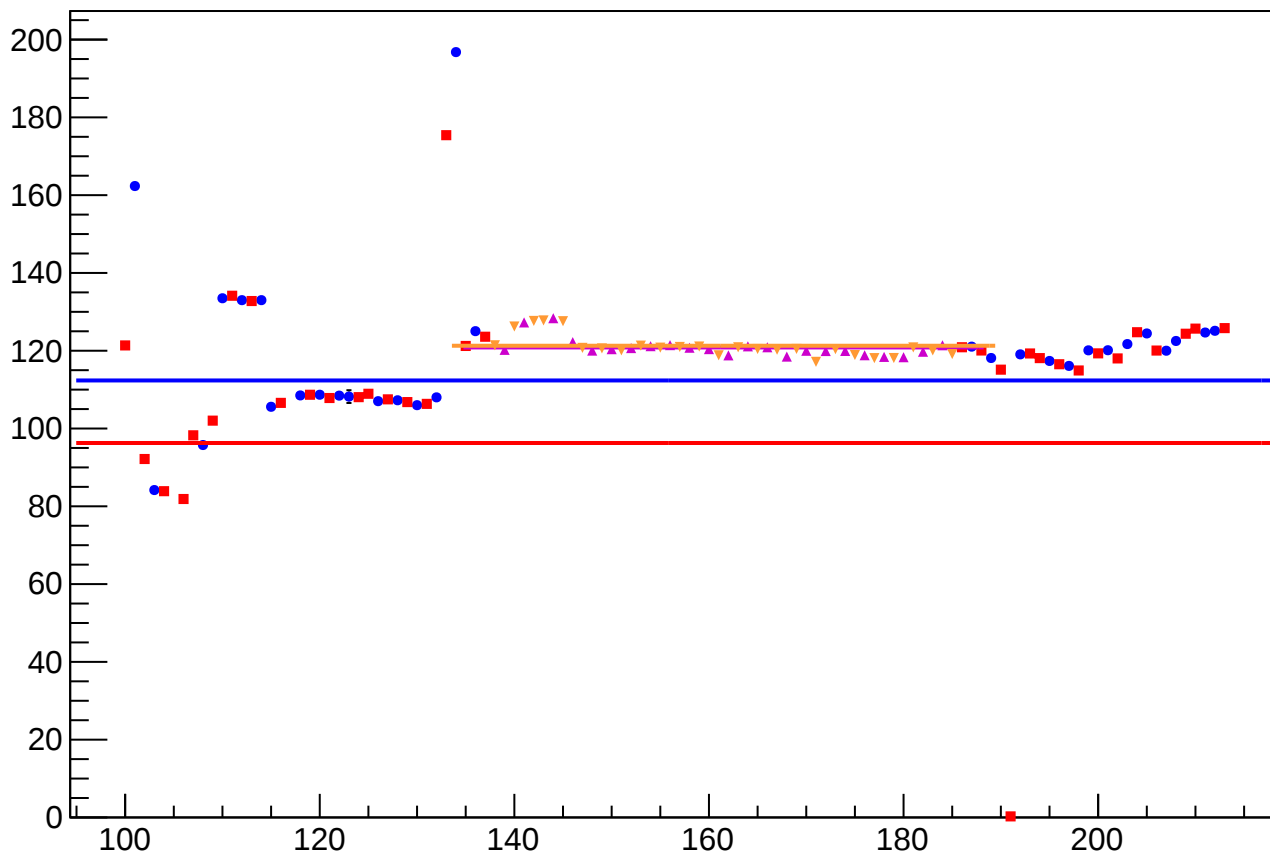
Right: -72.700 ± 1.011 $\chi^2/\text{NDF}: 3667.9/63$

In: -80.687 ± 0.755 $\chi^2/\text{NDF}: 2425.7/52$

Out: -77.039 ± 0.717 $\chi^2/\text{NDF}: 2885.1/58$

All: -78.769 ± 0.520 $\chi^2/\text{NDF}: 5323.0/111$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.358 $\pm$ 0.069 χ^2 /NDF: 80001.0/29

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.278 $\pm$ 0.061 χ^2 /NDF: 370798.2/33

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

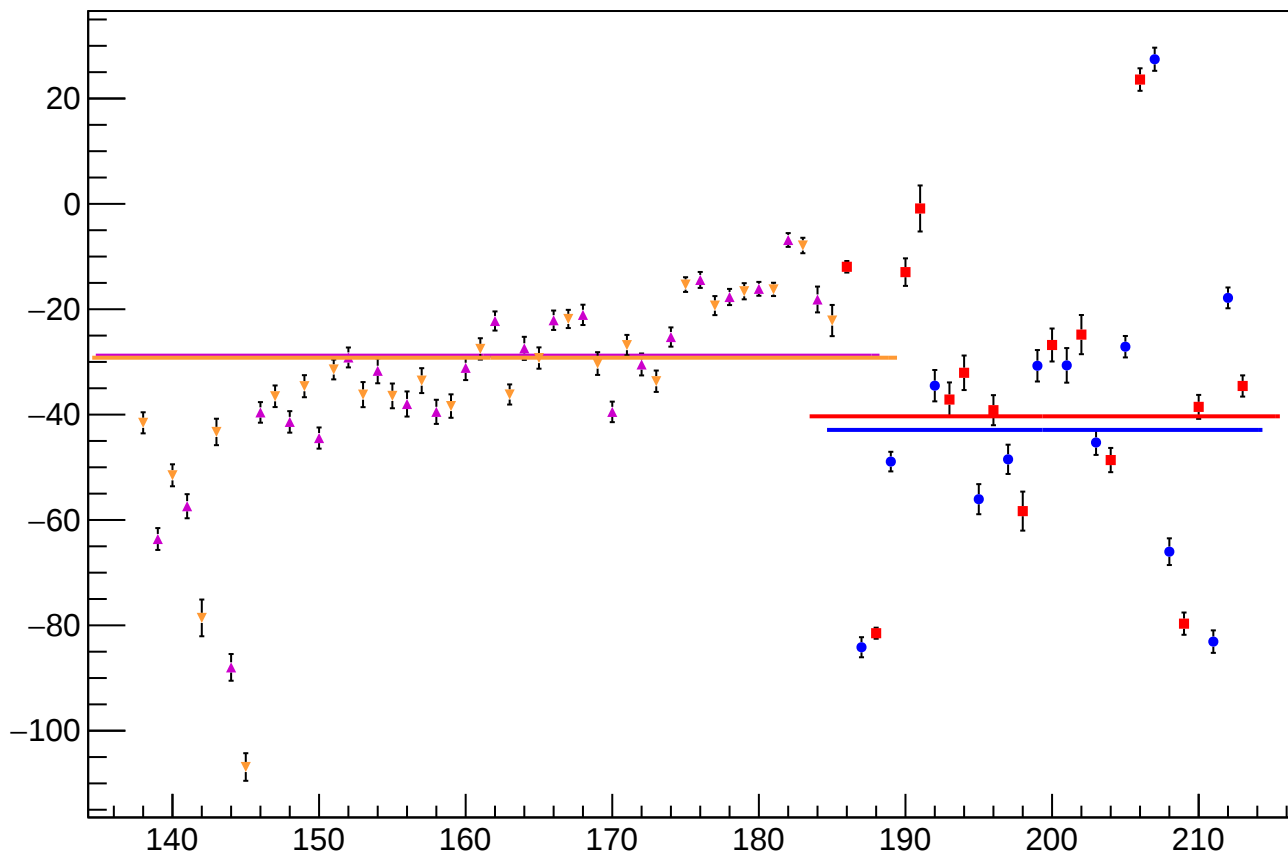
Right: 103.339 $\pm$ 0.046 χ^2 /NDF: 480863.1/63

In: 118.674 $\pm$ 0.035 χ^2 /NDF: 94480.1/52

Out: 113.815 $\pm$ 0.034 χ^2 /NDF: 491850.7/58

All: 116.137 $\pm$ 0.024 χ^2 /NDF: 596333.7/111

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -42.905 ± 0.646 $\chi^2/\text{NDF}: 2228.0/12$

Left Out: -29.199 ± 0.389 $\chi^2/\text{NDF}: 1881.5/24$

Right Out: -40.325 ± 0.530 $\chi^2/\text{NDF}: 3729.1/14$

Left In: -28.810 ± 0.395 $\chi^2/\text{NDF}: 1763.8/22$

Left: -29.008 ± 0.277 $\chi^2/\text{NDF}: 3645.8/47$

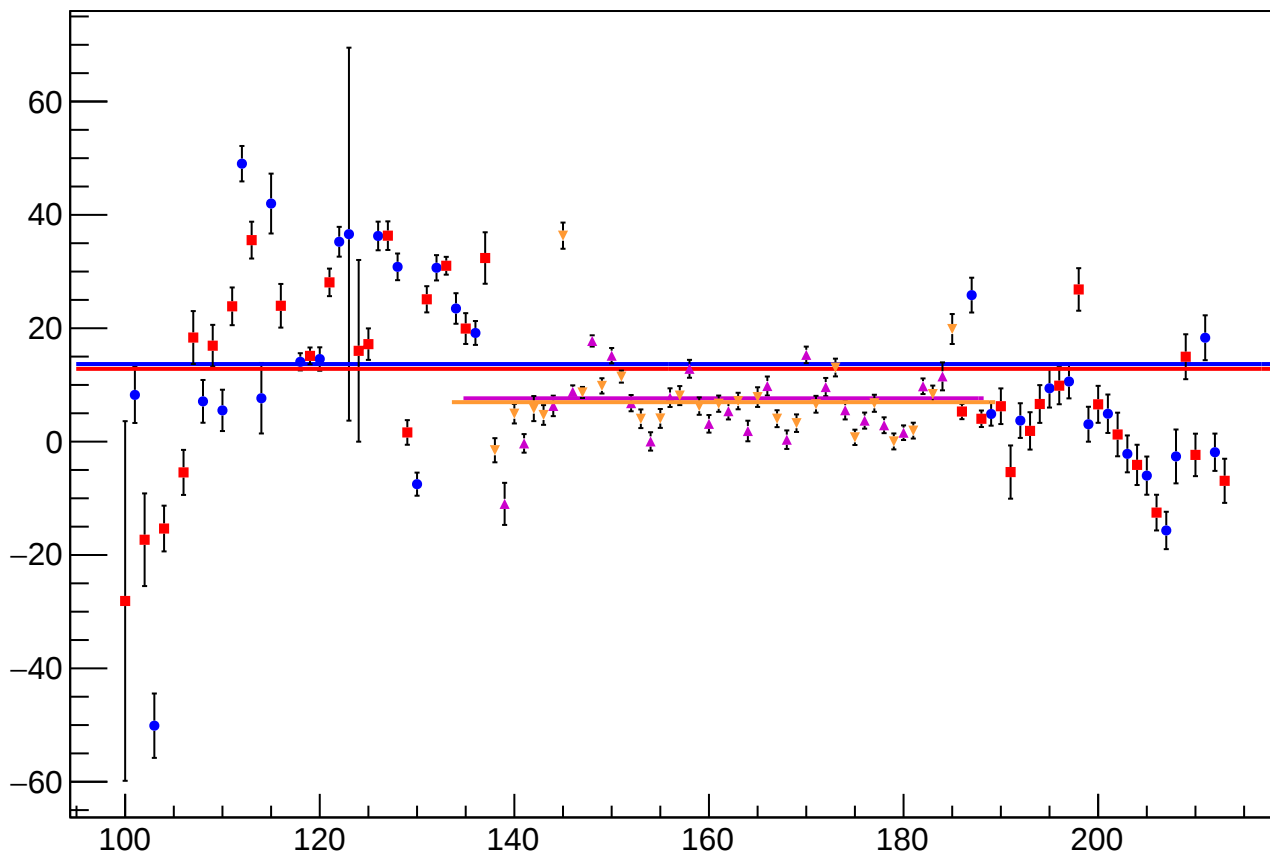
Right: -41.361 ± 0.410 $\chi^2/\text{NDF}: 5966.6/27$

In: -32.648 ± 0.337 $\chi^2/\text{NDF}: 4337.9/35$

Out: -33.093 ± 0.313 $\chi^2/\text{NDF}: 5897.5/39$

All: -32.887 ± 0.230 $\chi^2/\text{NDF}: 10236.3/75$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.686 $\pm$ 0.523 χ^2 /NDF: 918.8/29

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 12.837 $\pm$ 0.473 χ^2 /NDF: 760.5/33

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

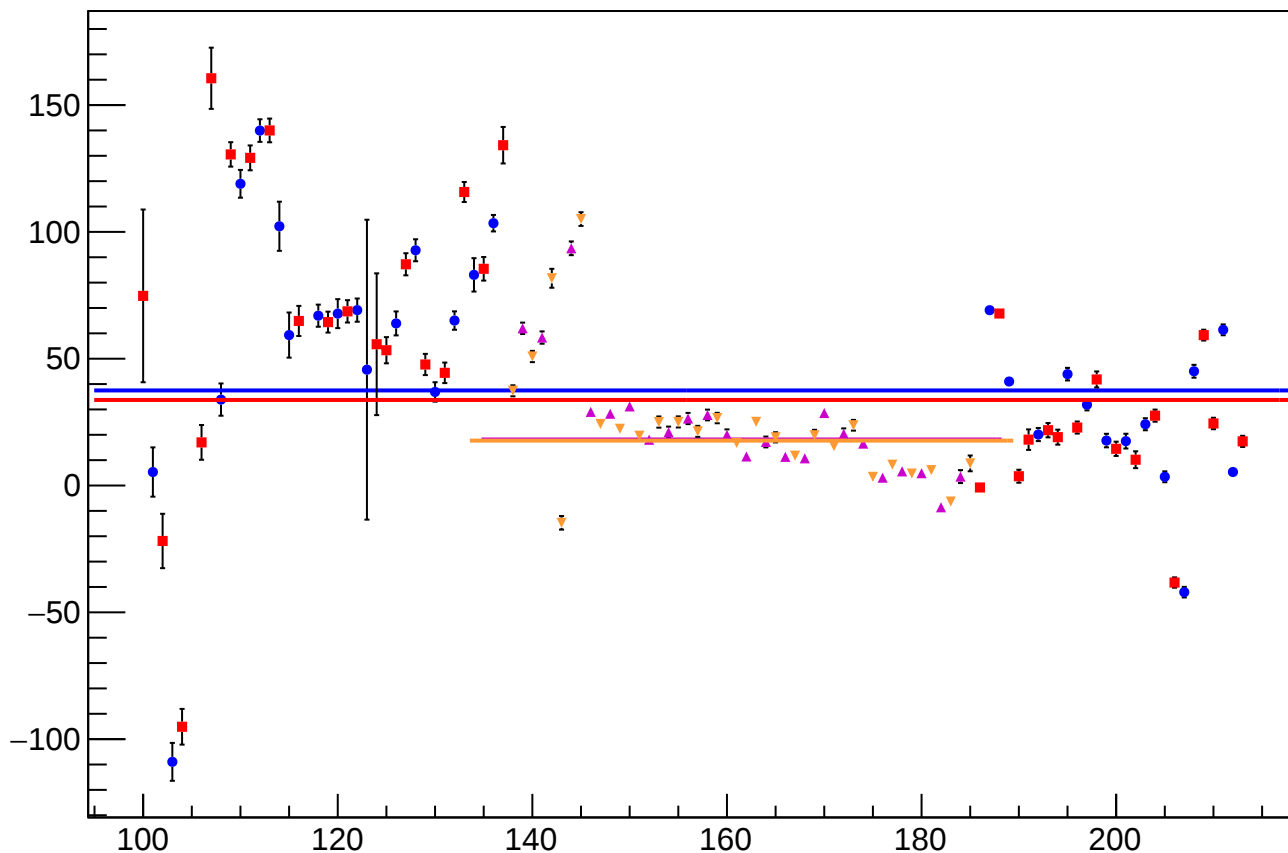
Right: 13.219 $\pm$ 0.351 χ^2 /NDF: 1680.8/63

In: 9.236 $\pm$ 0.269 χ^2 /NDF:1354.8/52

Out: 8.671 $\pm$ 0.255 χ^2 /NDF:1191.4/58

All: 8.939 $\pm$ 0.185 χ^2 /NDF: 2548.5/111

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 37.494+/-0.536 χ^2 /NDF: 4733.4/29

Left Out: 17.705+/-0.387 χ^2 /NDF:2432.2/24

Right Out: 33.738+/-0.432 χ^2 /NDF: 7825.3/33

Left In: 18.150+/-0.393 χ^2 /NDF:2339.4/22

Left: 17.924+/-0.276 χ^2 /NDF: 4772.2/47

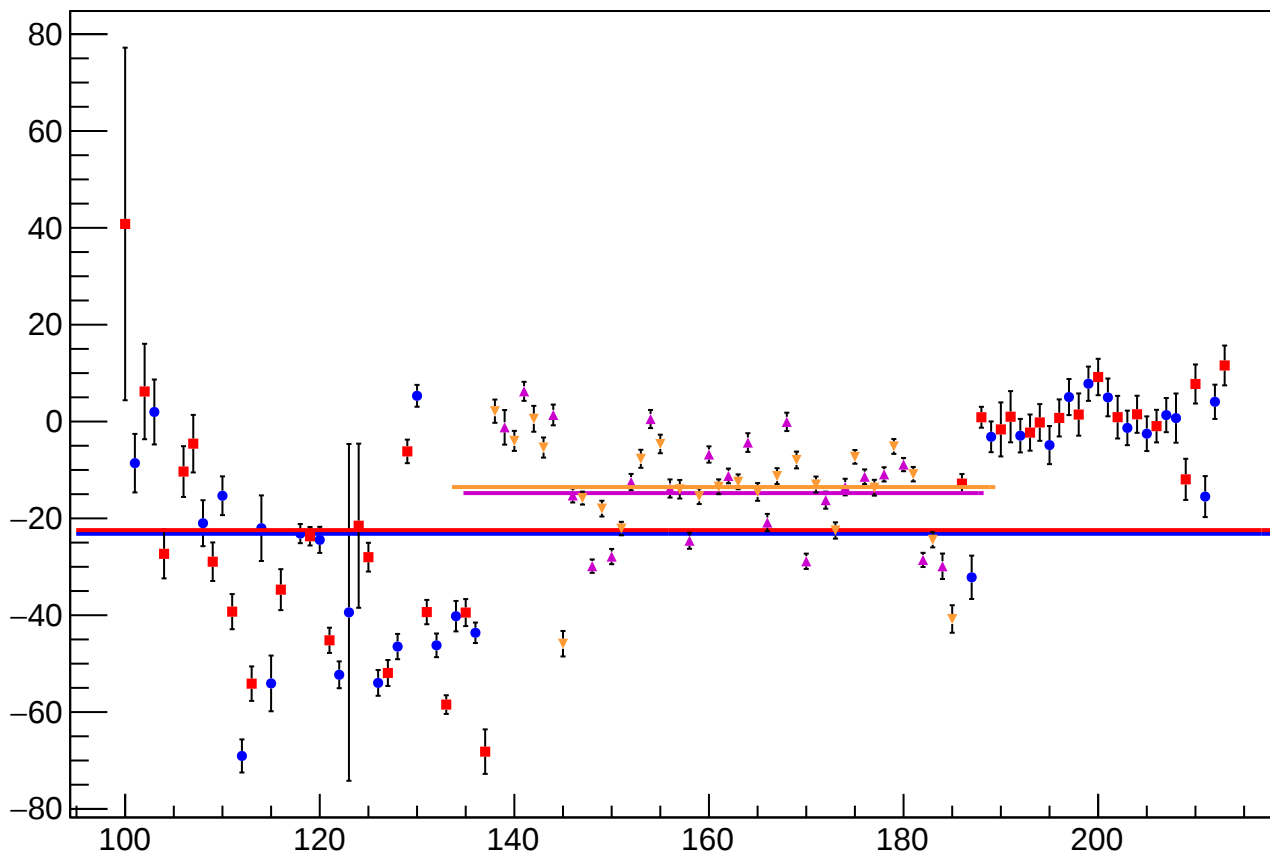
Right: 35.220+/-0.336 χ^2 /NDF: 12588.5/63

In: 24.909+/-0.317 χ^2 /NDF:7921.1/52

Out: 24.841+/-0.288 χ^2 /NDF:11020.5/58

All: 24.872+/-0.213 χ^2 /NDF: 18941.7/111

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.179 ± 0.606 $\chi^2/\text{NDF}: 1418.9/29$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -22.421 ± 0.568 $\chi^2/\text{NDF}: 1529.4/33$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

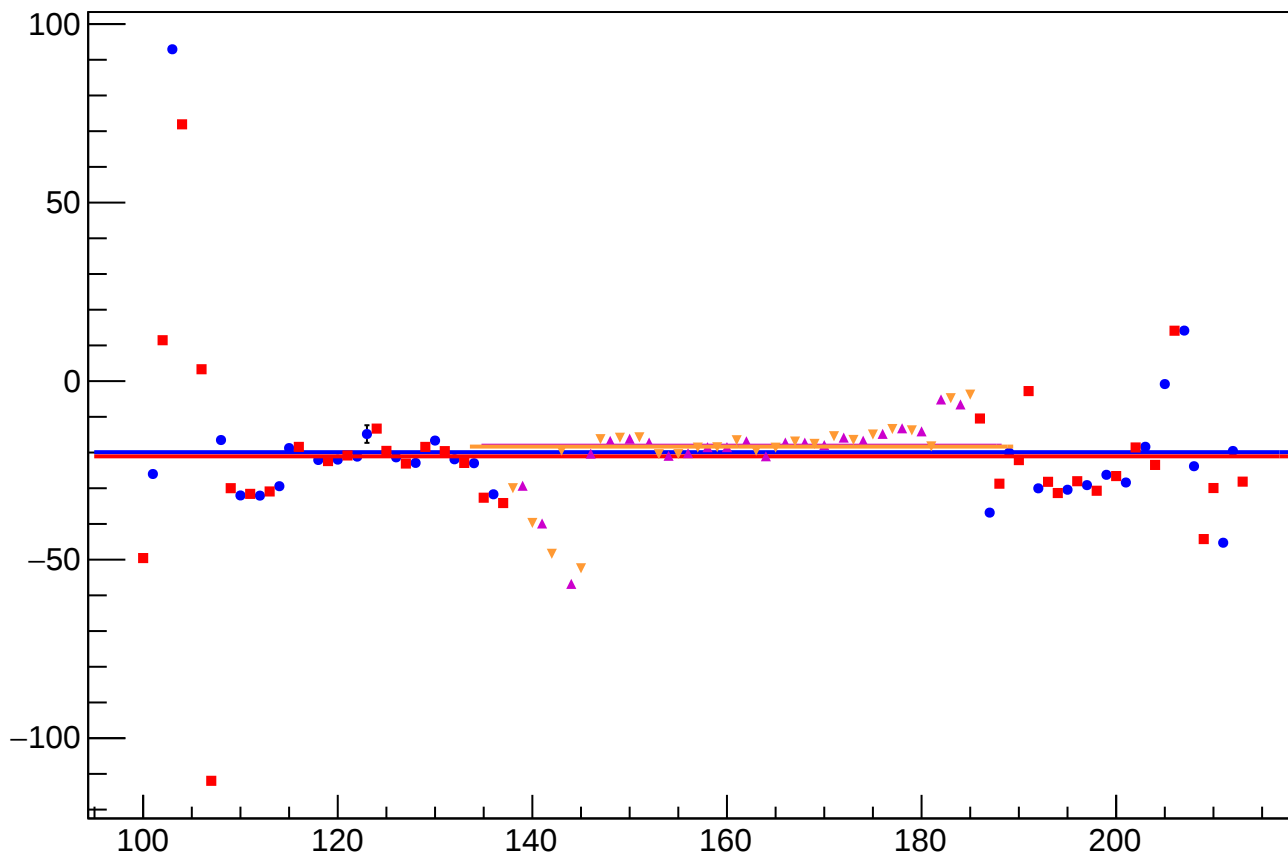
Right: -22.776 ± 0.415 $\chi^2/\text{NDF}: 2949.1/63$

In: -16.916 ± 0.306 $\chi^2/\text{NDF}: 2400.1/52$

Out: -15.915 ± 0.294 $\chi^2/\text{NDF}: 2281.2/58$

All: -16.396 ± 0.212 $\chi^2/\text{NDF}: 4686.9/111$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.900 ± 0.029 χ^2/NDF : 612070.7/29

Left Out: -18.334 ± 0.016 χ^2/NDF : 284152.1/24

Right Out: -21.069 ± 0.028 χ^2/NDF : 579317.7/33

Left In: -18.083 ± 0.016 χ^2/NDF : 241949.5/22

Left: -18.211 ± 0.011 χ^2/NDF : 526224.9/47

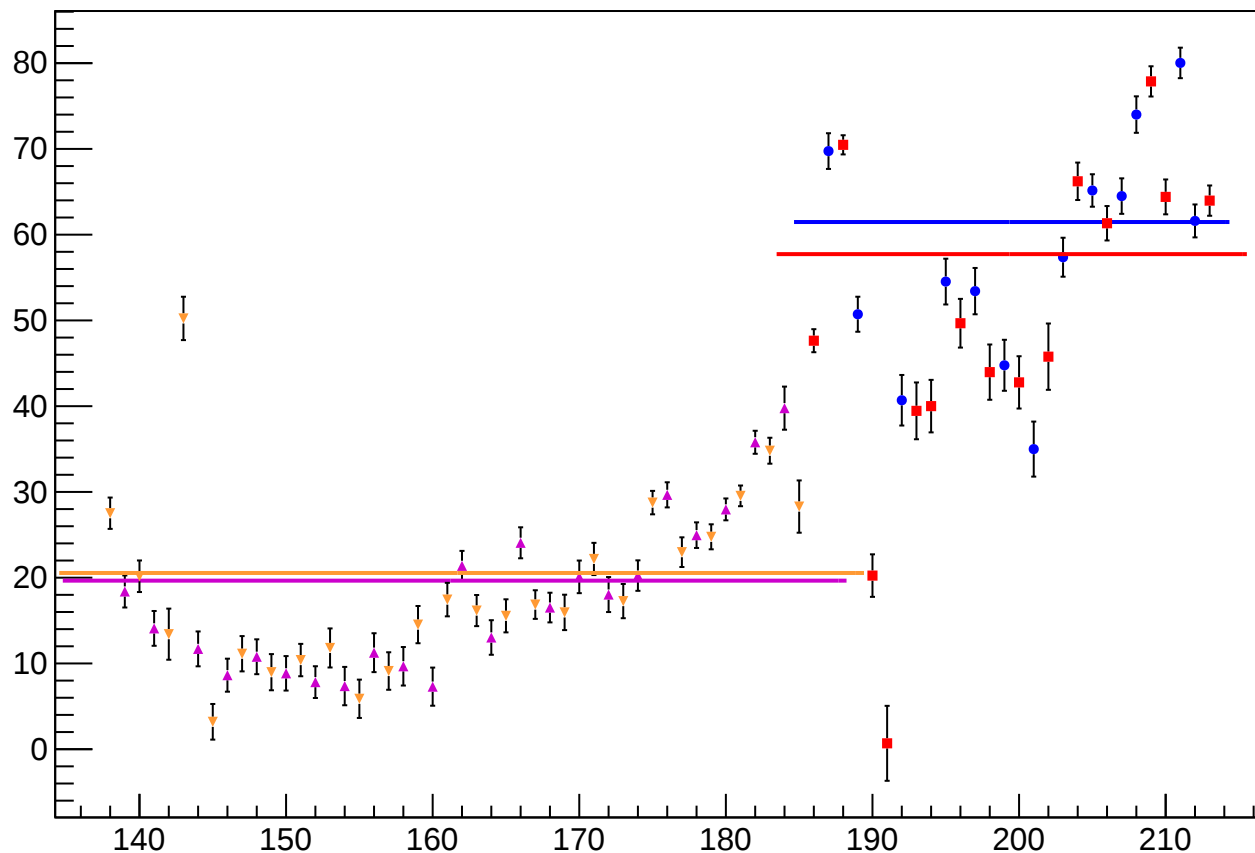
Right: -20.511 ± 0.020 χ^2/NDF : 1192245.5/63

In: -18.514 ± 0.014 χ^2/NDF : 857045.8/52

Out: -19.013 ± 0.014 χ^2/NDF : 870869.8/58

All: -18.769 ± 0.010 χ^2/NDF : 1728560.8/111

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 61.476 $\pm$ 0.622 χ^2 /NDF: 361.2/12

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 57.731 $\pm$ 0.534 χ^2 /NDF: 881.3/14

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

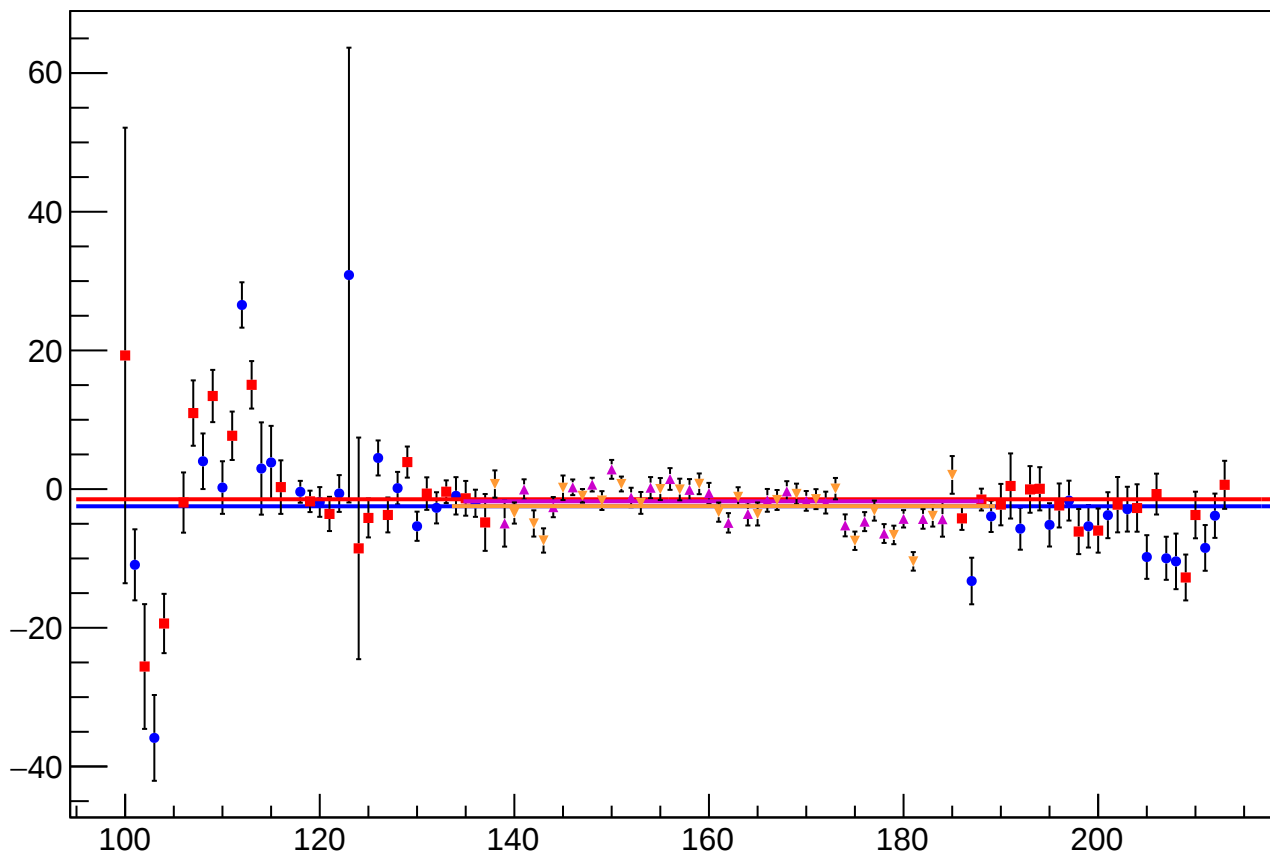
Right: 59.322 $\pm$ 0.405 χ^2 /NDF: 1263.4/27

In: 31.049 $\pm$ 0.324 χ^2 /NDF: 4225.6/35

Out: 32.738 $\pm$ 0.306 χ^2 /NDF: 4763.8/39

All: 31.944 $\pm$ 0.223 χ^2 /NDF: 9003.7/75

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.477 ± 0.524 χ^2/NDF : 162.6/29

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.464 ± 0.485 χ^2/NDF : 107.9/33

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

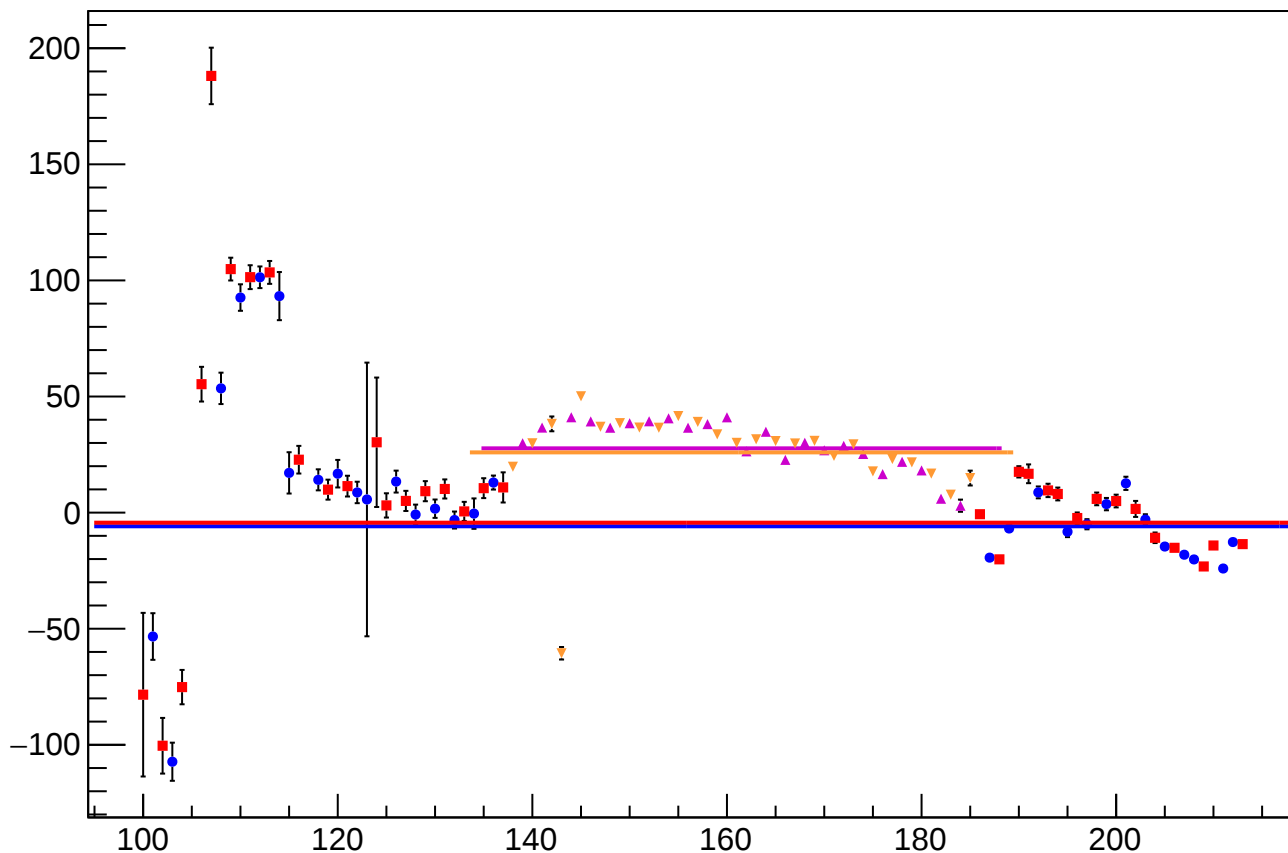
Right: -1.931 ± 0.356 χ^2/NDF : 272.6/63

In: -1.937 ± 0.262 χ^2/NDF : 231.5/52

Out: -2.191 ± 0.250 χ^2/NDF : 217.0/58

All: -2.070 ± 0.181 χ^2/NDF : 448.9/111

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.885 ± 0.526 χ^2/NDF : 1655.1/29

Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24

Right Out: -4.334 ± 0.446 χ^2/NDF : 2661.5/33

Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47

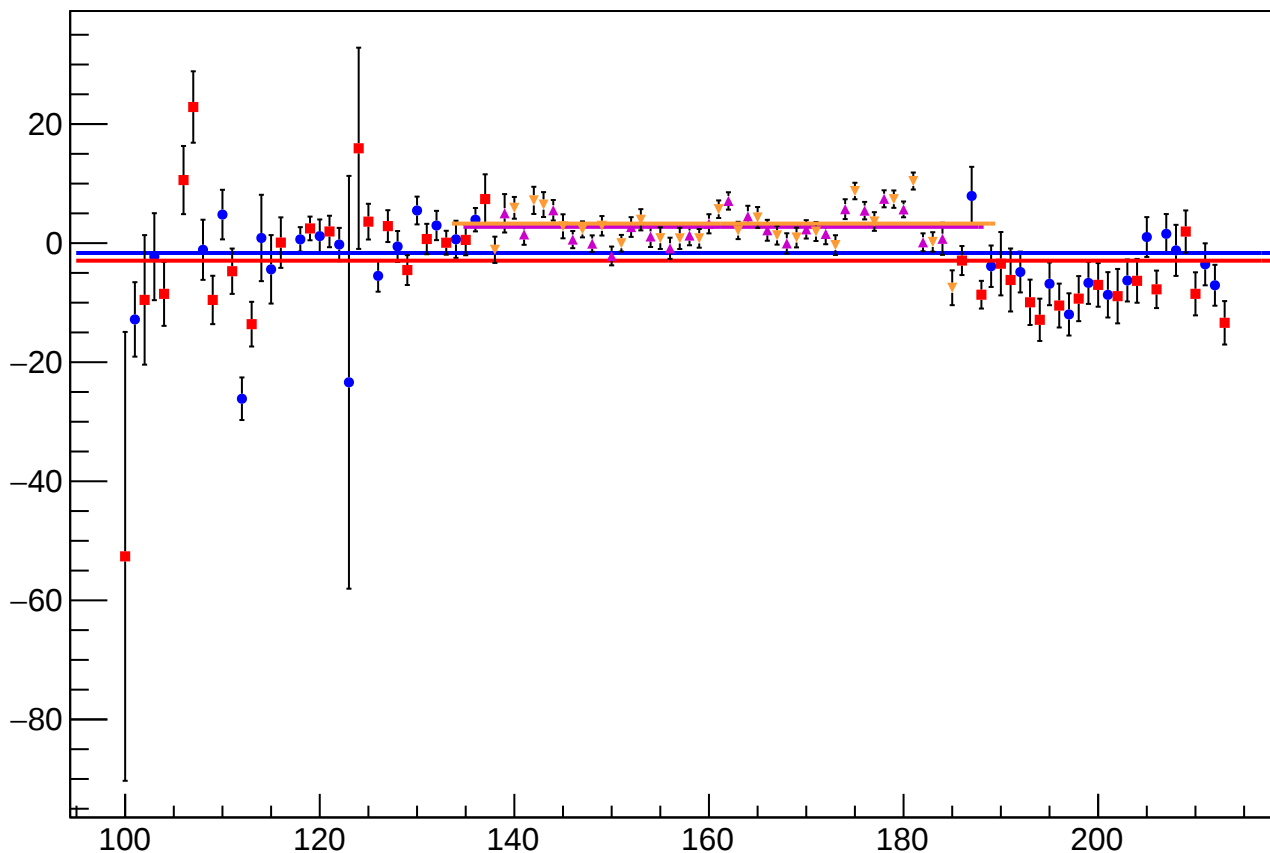
Right: -4.983 ± 0.340 χ^2/NDF : 4321.6/63

In: 16.227 ± 0.307 χ^2/NDF : 5145.1/52

Out: 13.493 ± 0.286 χ^2/NDF : 7090.7/58

All: 14.762 ± 0.209 χ^2/NDF : 12278.3/111

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.655 ± 0.602 χ^2/NDF : 106.7/29

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -2.947 ± 0.575 χ^2/NDF : 116.3/33

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

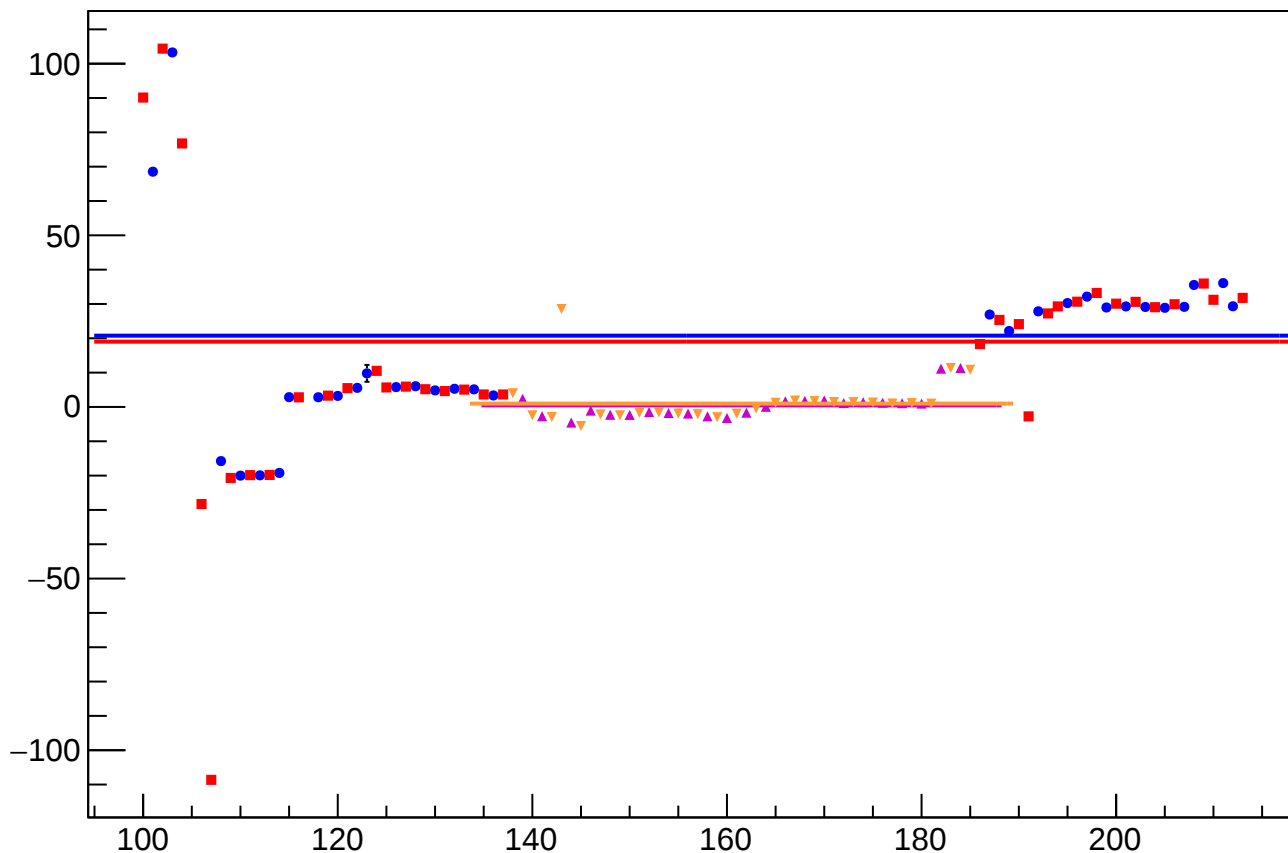
Right: -2.330 ± 0.416 χ^2/NDF : 225.3/63

In: 1.670 ± 0.297 χ^2/NDF : 211.4/52

Out: 1.731 ± 0.287 χ^2/NDF : 306.6/58

All: 1.701 ± 0.206 χ^2/NDF : 518.0/111

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 20.771 $\pm$ 0.028 χ^2 /NDF: 508466.7/29

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF: 117391.3/24

Right Out: 19.020 $\pm$ 0.027 χ^2 /NDF: 745267.0/33

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

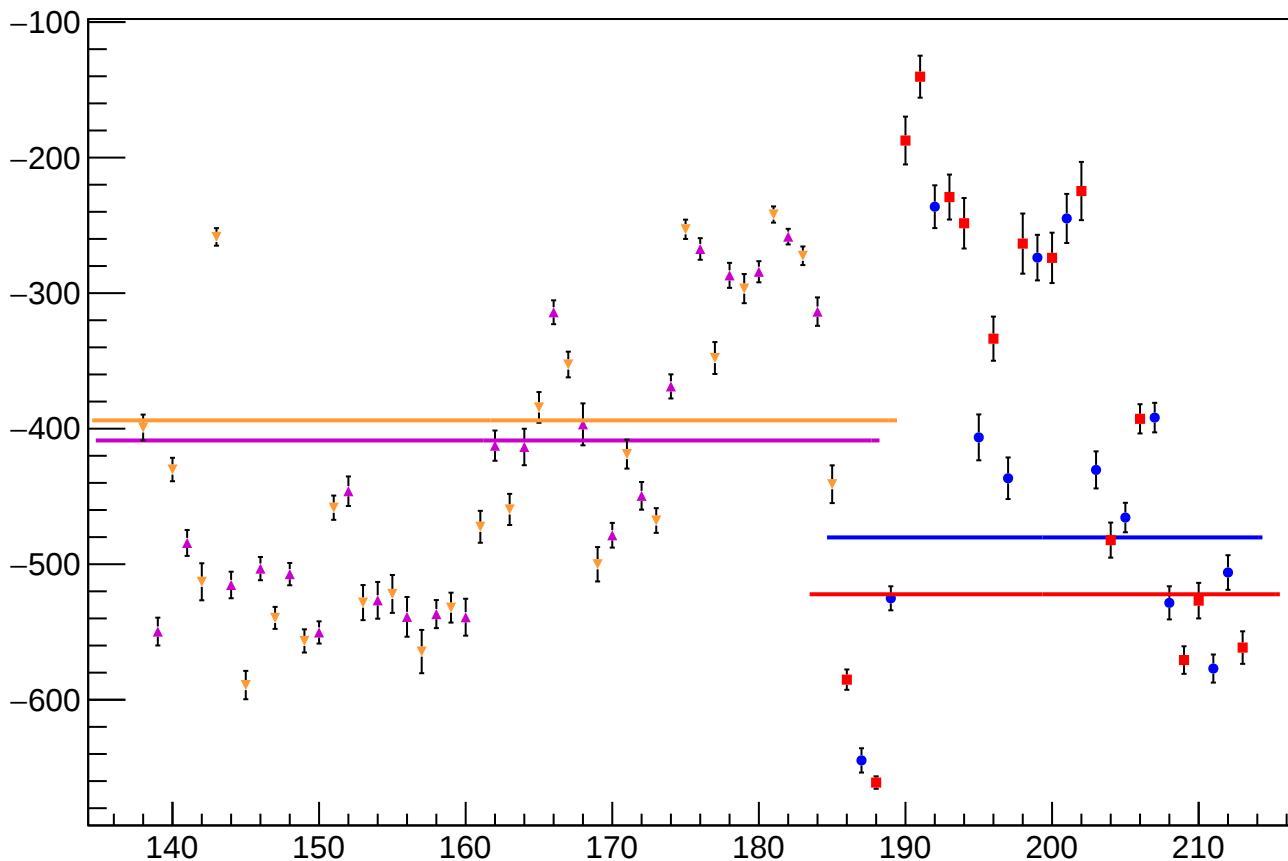
Right: 19.863 $\pm$ 0.020 χ^2 /NDF: 1255729.9/63

In: 5.127 $\pm$ 0.014 χ^2 /NDF: 958211.8/52

Out: 5.272 $\pm$ 0.013 χ^2 /NDF: 1198281.8/58

All: 5.201 $\pm$ 0.009 χ^2 /NDF: 2156551.8/111

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -480.224 ± 3.373 $\chi^2/\text{NDF}: 1135.8/12$

Left Out: -393.871 ± 1.897 $\chi^2/\text{NDF}: 3772.8/24$

Right Out: -522.168 ± 2.806 $\chi^2/\text{NDF}: 3308.2/14$

Left In: -408.696 ± 1.979 $\chi^2/\text{NDF}: 3062.9/22$

Left: -400.970 ± 1.369 $\chi^2/\text{NDF}: 6864.9/47$

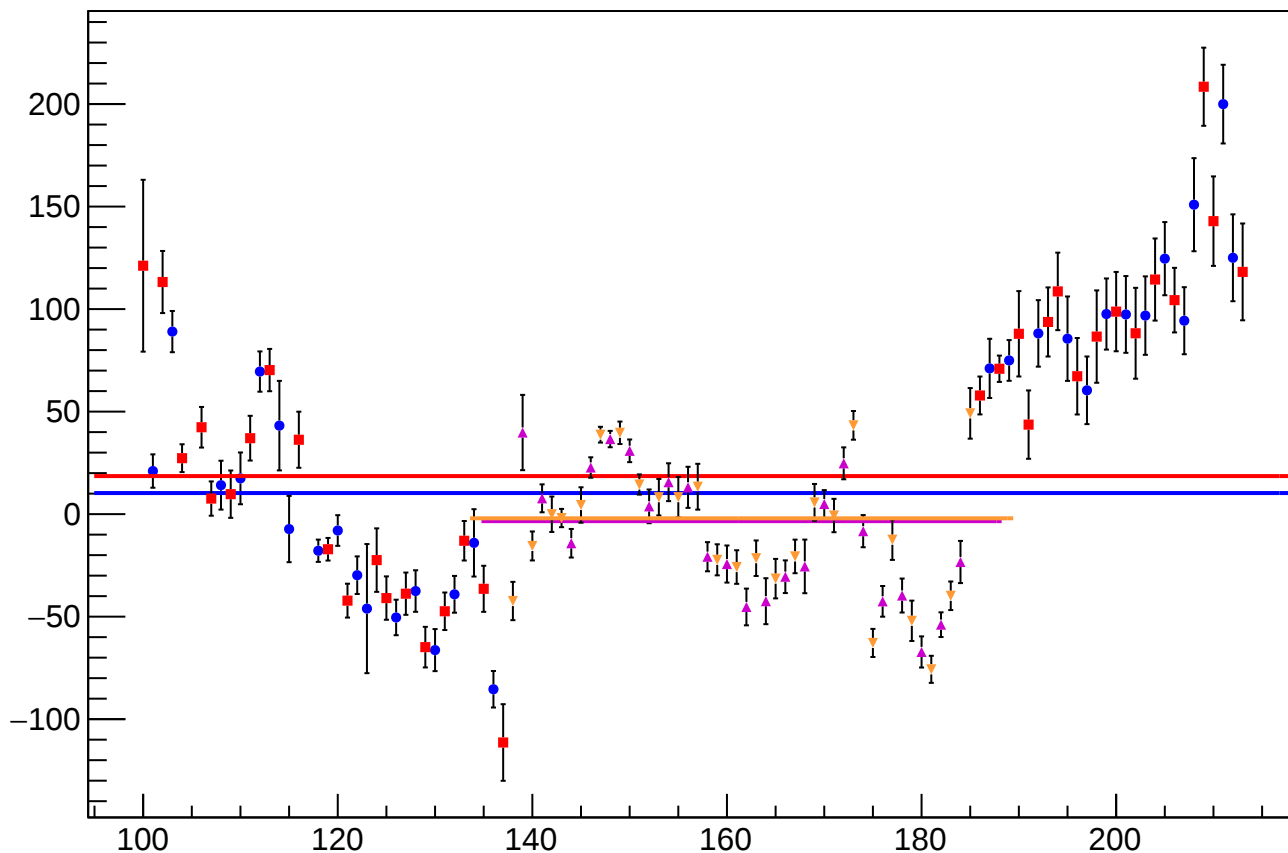
Right: -505.008 ± 2.157 $\chi^2/\text{NDF}: 4535.4/27$

In: -427.015 ± 1.707 $\chi^2/\text{NDF}: 4533.2/35$

Out: -434.109 ± 1.572 $\chi^2/\text{NDF}: 8515.5/39$

All: -430.854 ± 1.156 $\chi^2/\text{NDF}: 13058.1/75$

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.281 ± 2.094 χ^2/NDF : 839.7/29

Left Out: -2.037 ± 1.424 χ^2/NDF : 563.8/24

Right Out: 18.556 ± 1.937 χ^2/NDF : 841.7/33

Left In: -3.420 ± 1.520 χ^2/NDF : 451.0/22

Left: -2.683 ± 1.039 χ^2/NDF : 1015.2/47

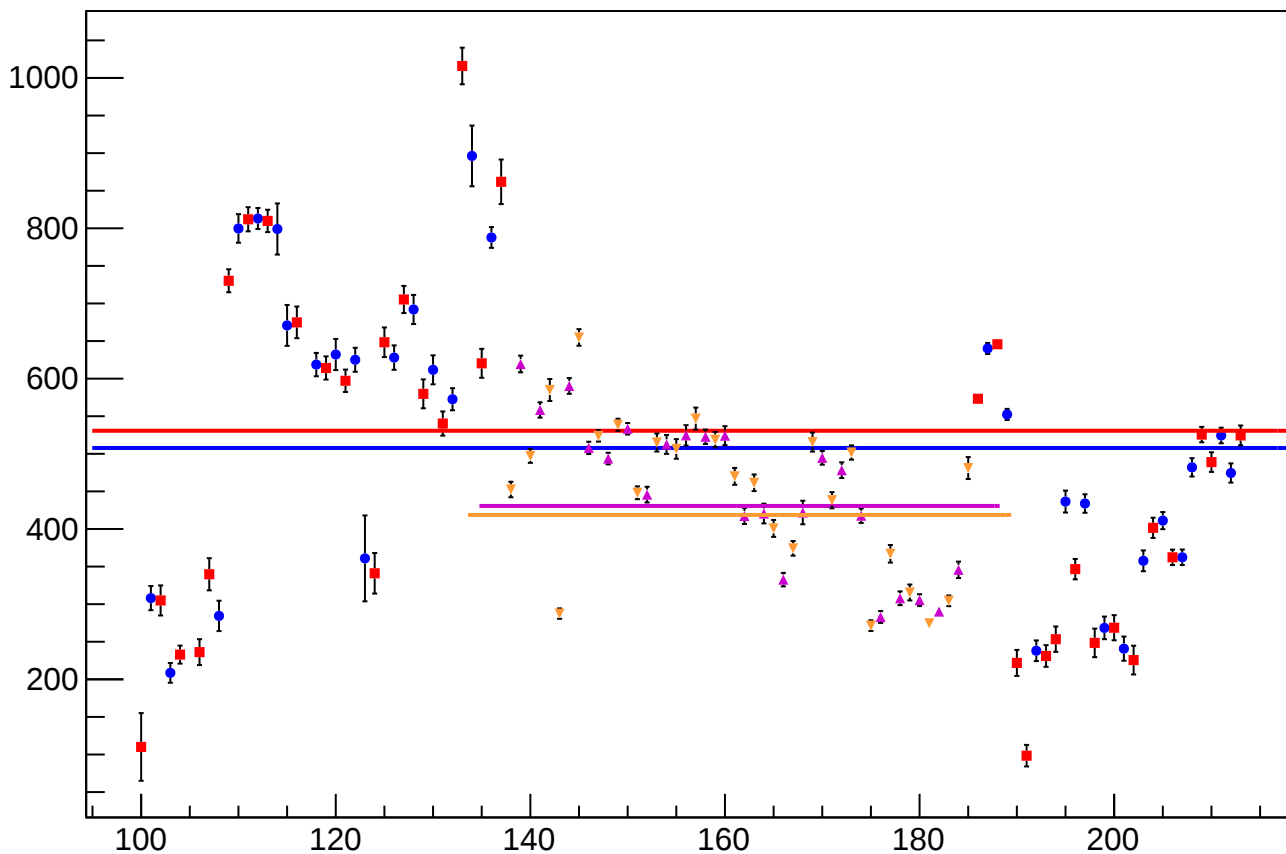
Right: 14.740 ± 1.422 χ^2/NDF : 1689.8/63

In: 1.308 ± 1.230 χ^2/NDF : 1318.7/52

Out: 5.188 ± 1.147 χ^2/NDF : 1478.8/58

All: 3.383 ± 0.839 χ^2/NDF : 2802.8/111

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 507.783 $\pm$ 2.511 χ^2 /NDF: 4197.5/29

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 530.669 $\pm$ 2.100 χ^2 /NDF: 7088.0/33

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

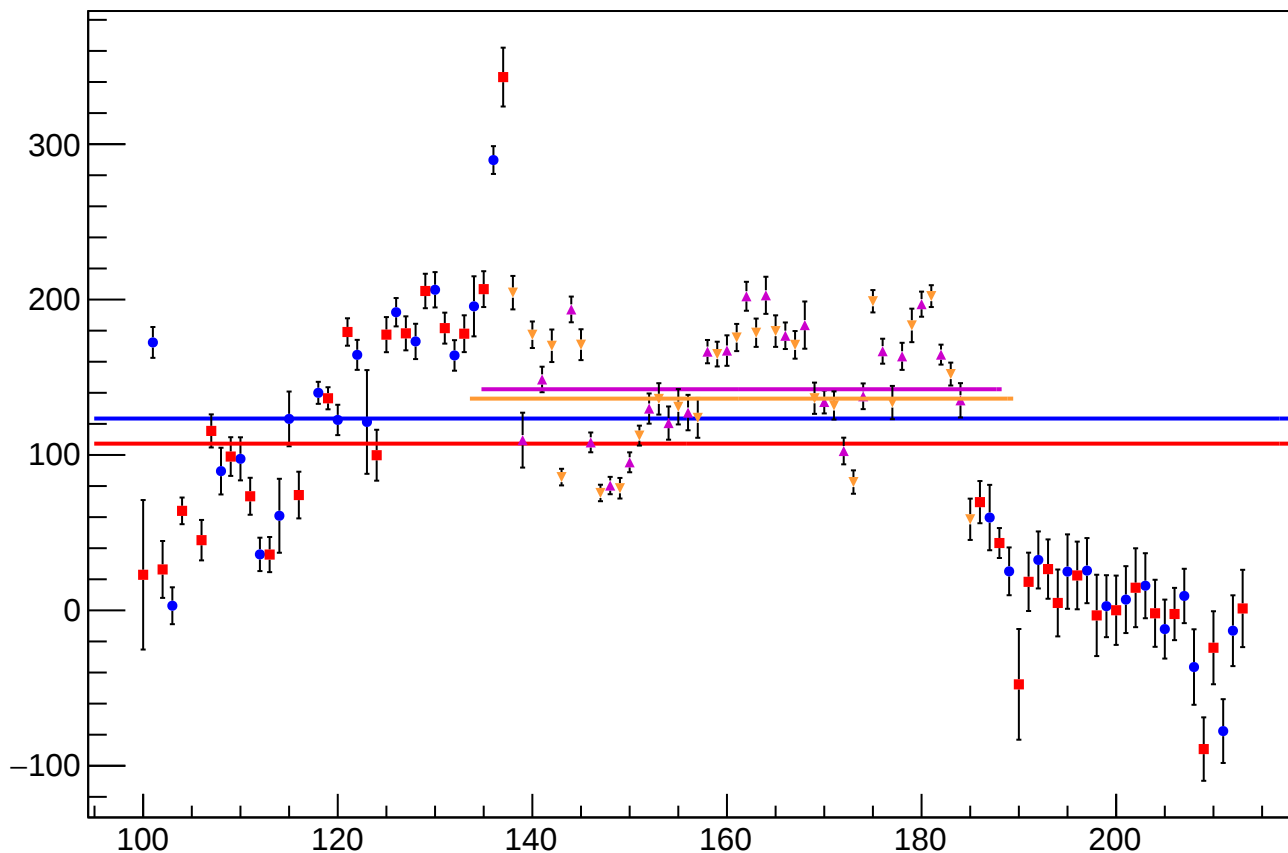
Right: 521.249 $\pm$ 1.611 χ^2 /NDF: 11334.5/63

In: 460.046 $\pm$ 1.550 χ^2 /NDF:7632.2/52

Out: 469.234 $\pm$ 1.411 χ^2 /NDF:11944.8/58

All: 465.071 $\pm$ 1.043 χ^2 /NDF: 19596.2/111

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 123.443 $\pm$ 2.439 χ^2/NDF : 1212.6/29

Left Out: 136.258 $\pm$ 1.651 χ^2/NDF : 758.3/24

Right Out: 107.289 $\pm$ 2.300 χ^2/NDF : 1101.4/33

Left In: 142.296 $\pm$ 1.745 χ^2/NDF : 459.8/22

Left: 139.111 $\pm$ 1.199 χ^2/NDF : 1224.4/47

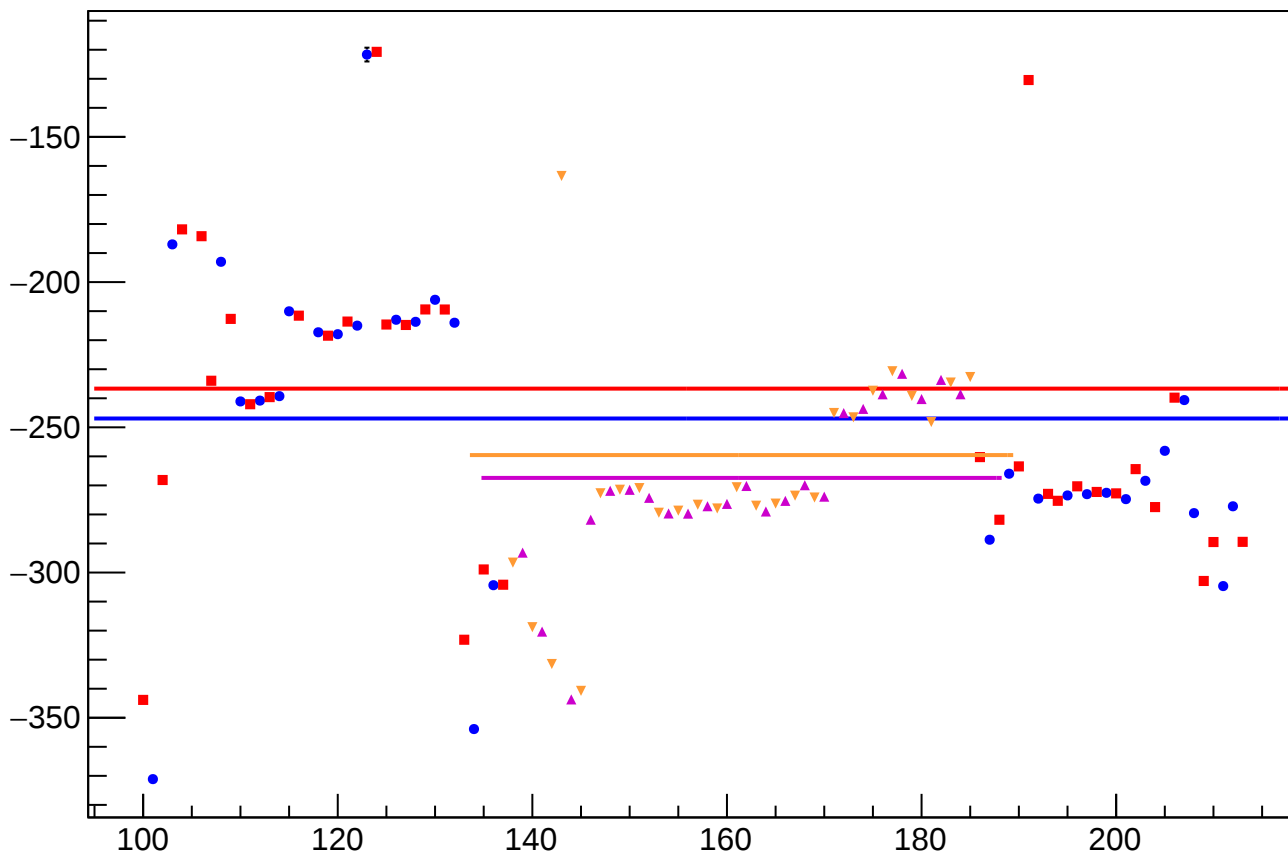
Right: 114.893 $\pm$ 1.673 χ^2/NDF : 2337.2/63

In: 135.914 $\pm$ 1.419 χ^2/NDF : 1711.9/52

Out: 126.406 $\pm$ 1.341 χ^2/NDF : 1964.4/58

All: 130.892 $\pm$ 0.975 χ^2/NDF : 3700.0/111

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -246.962+/-0.121 χ^2/NDF : 169378.9/29

Left Out: -259.557+/-0.079 χ^2/NDF : 238235.2/24

Right Out: -236.675+/-0.112 χ^2/NDF : 183443.6/33

Left In: -267.417+/-0.082 χ^2/NDF : 98035.5/22

Left: -263.361+/-0.057 χ^2/NDF : 341051.4/47

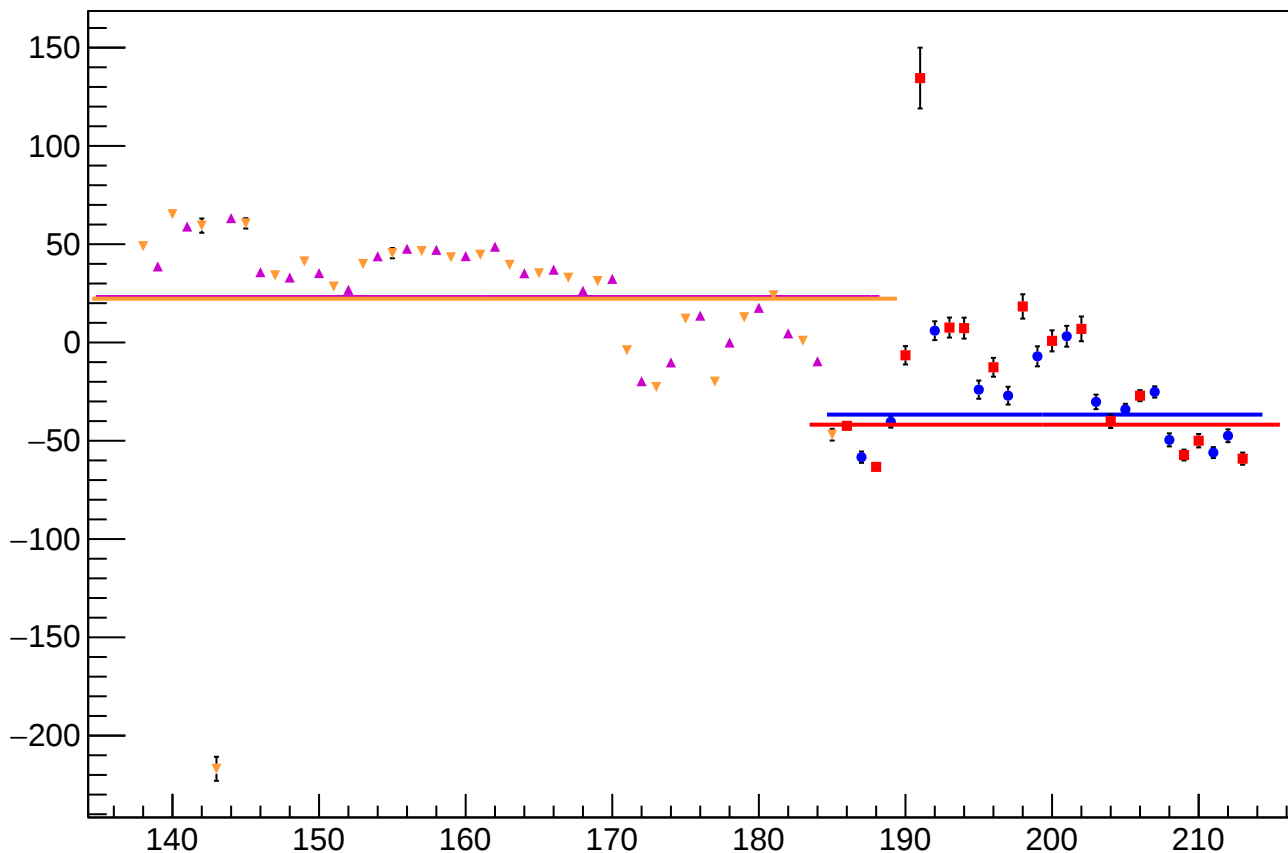
Right: -241.437+/-0.082 χ^2/NDF : 356702.9/63

In: -261.016+/-0.068 χ^2/NDF : 287044.1/52

Out: -251.976+/-0.065 χ^2/NDF : 449409.3/58

All: -256.290+/-0.047 χ^2/NDF : 745775.8/111

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -36.686 ± 0.963 $\chi^2/\text{NDF}: 334.0/12$

Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$

Right Out: -41.815 ± 0.810 $\chi^2/\text{NDF}: 906.7/14$

Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$

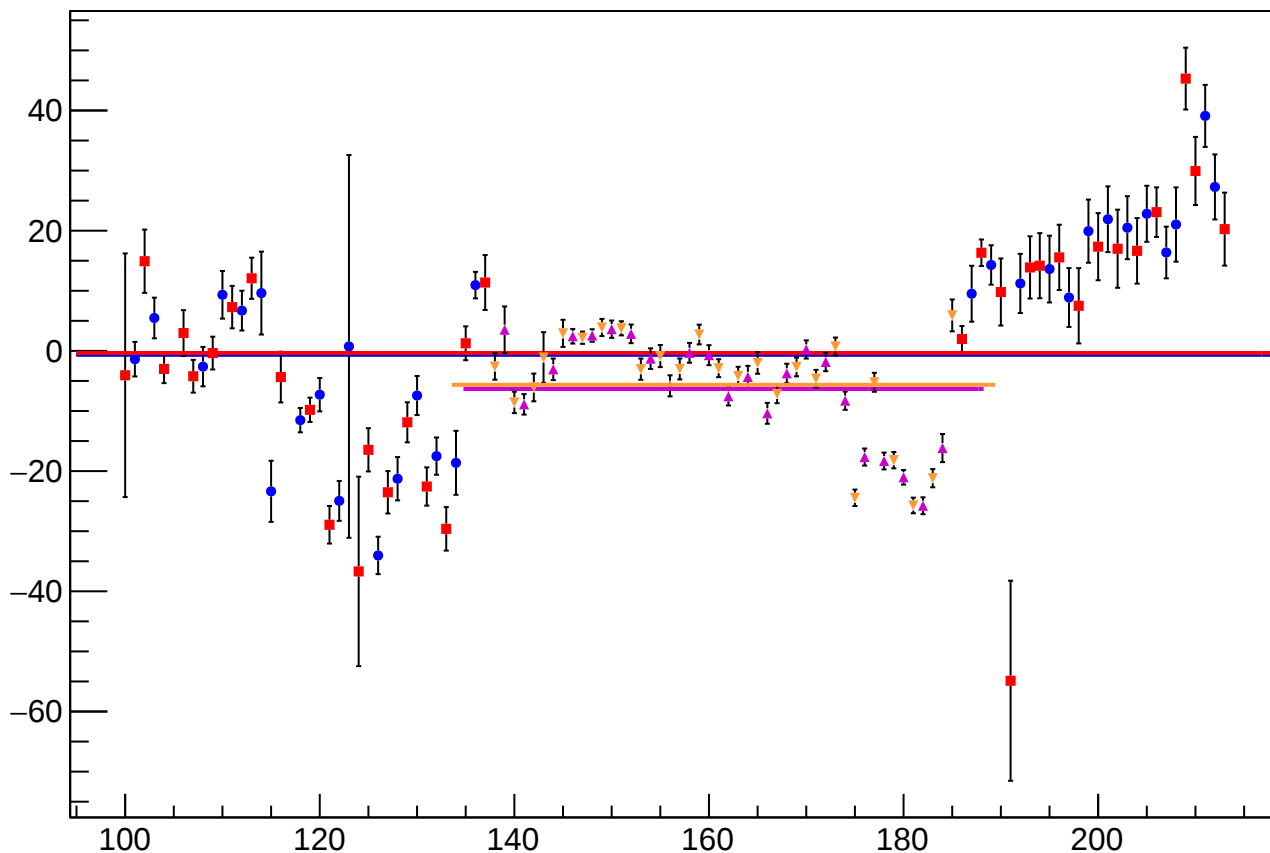
Right: -39.689 ± 0.620 $\chi^2/\text{NDF}: 1257.3/27$

In: 14.276 ± 0.371 $\chi^2/\text{NDF}: 6367.4/35$

Out: 9.780 ± 0.358 $\chi^2/\text{NDF}: 11116.0/39$

All: 11.949 ± 0.257 $\chi^2/\text{NDF}: 17559.6/75$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.649 ± 0.680 χ^2/NDF : 575.9/29

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: -0.346 ± 0.626 χ^2/NDF : 613.1/33

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

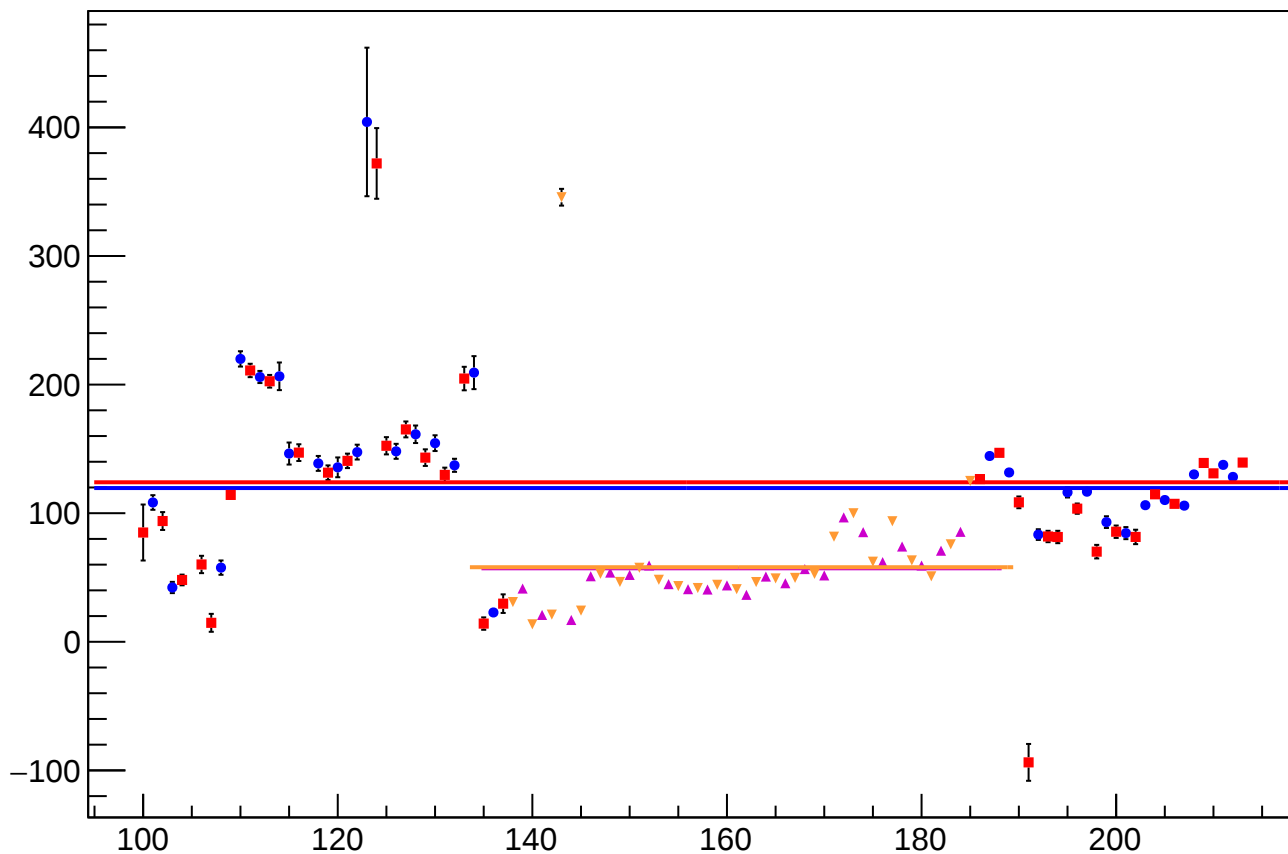
Right: -0.485 ± 0.461 χ^2/NDF : 1189.1/63

In: -5.301 ± 0.290 χ^2/NDF : 1416.0/52

Out: -4.568 ± 0.282 χ^2/NDF : 1564.0/58

All: -4.924 ± 0.202 χ^2/NDF : 2983.2/111

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 119.553 $\pm$ 0.755 χ^2 /NDF: 2568.7/29

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 124.037 $\pm$ 0.630 χ^2 /NDF: 3272.3/33

Left In: 57.139 $\pm$ 0.400 χ^2 /NDF:1803.4/22

Left: 57.566 $\pm$ 0.282 χ^2 /NDF: 6441.4/47

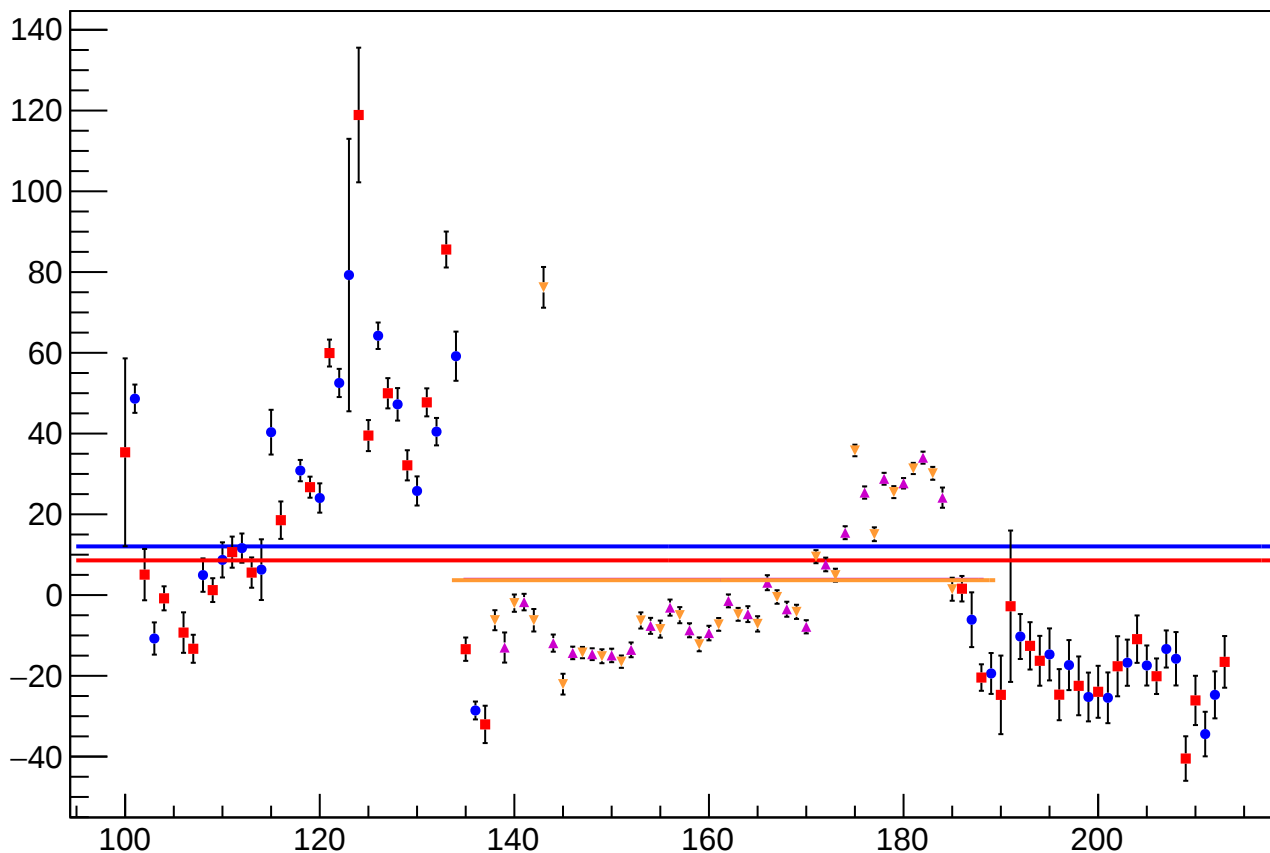
Right: 122.196 $\pm$ 0.484 χ^2 /NDF: 5861.9/63

In: 70.793 $\pm$ 0.353 χ^2 /NDF:9710.3/52

Out: 76.821 $\pm$ 0.336 χ^2 /NDF:15761.8/58

All: 73.953 $\pm$ 0.244 χ^2 /NDF: 25624.9/111

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.051+/-0.782 χ^2 /NDF: 1578.0/29

Left Out: 3.684+/-0.357 χ^2 /NDF:2541.7/24

Right Out: 8.589+/-0.740 χ^2 /NDF: 1581.9/33

Left In: 3.786+/-0.362 χ^2 /NDF:2198.8/22

Left: 3.734+/-0.254 χ^2 /NDF: 4740.5/47

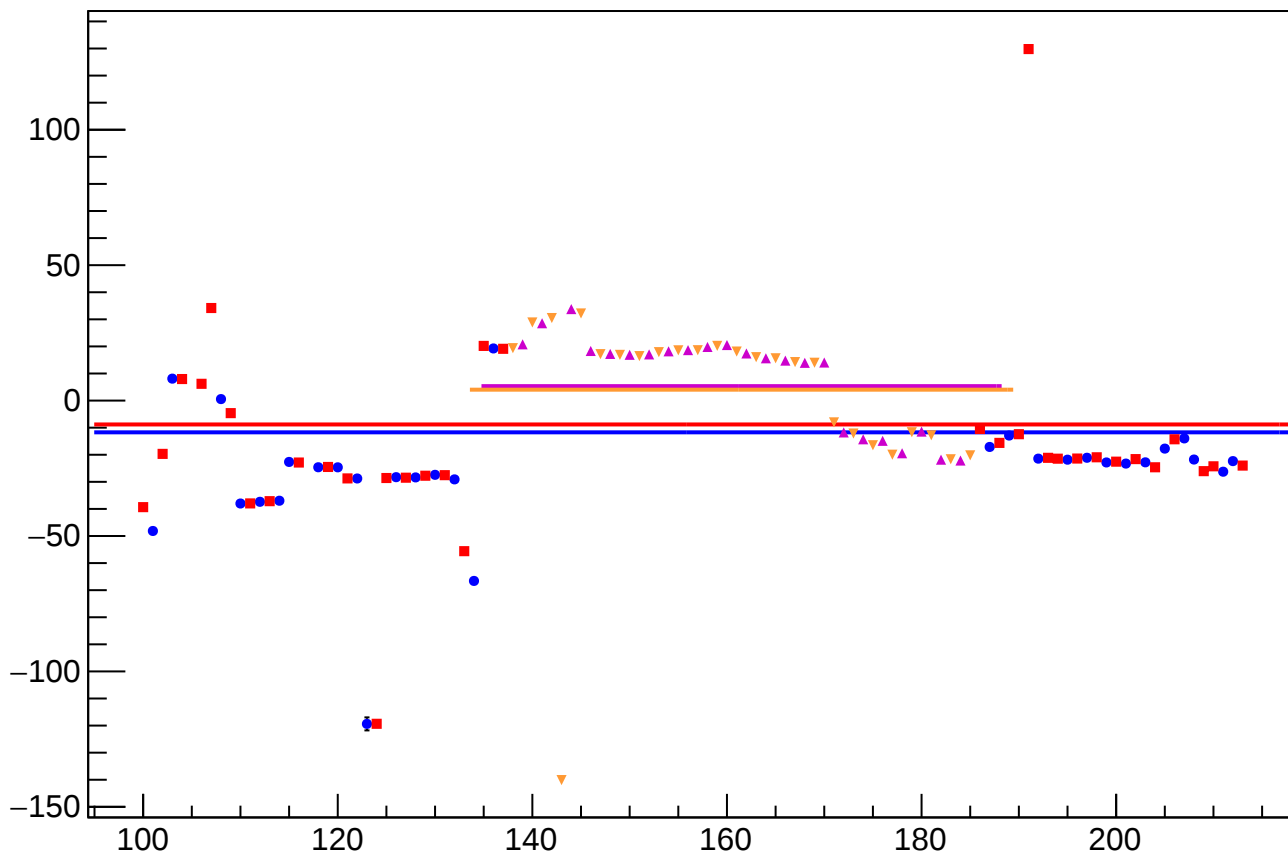
Right: 10.223+/-0.538 χ^2 /NDF: 3170.2/63

In: 5.241+/-0.328 χ^2 /NDF:3868.7/52

Out: 4.609+/-0.321 χ^2 /NDF:4159.2/58

All: 4.918+/-0.230 χ^2 /NDF: 8029.8/111

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -11.722 ± 0.036 χ^2/NDF : 303691.4/29

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -8.814 ± 0.035 χ^2/NDF : 397435.5/33

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

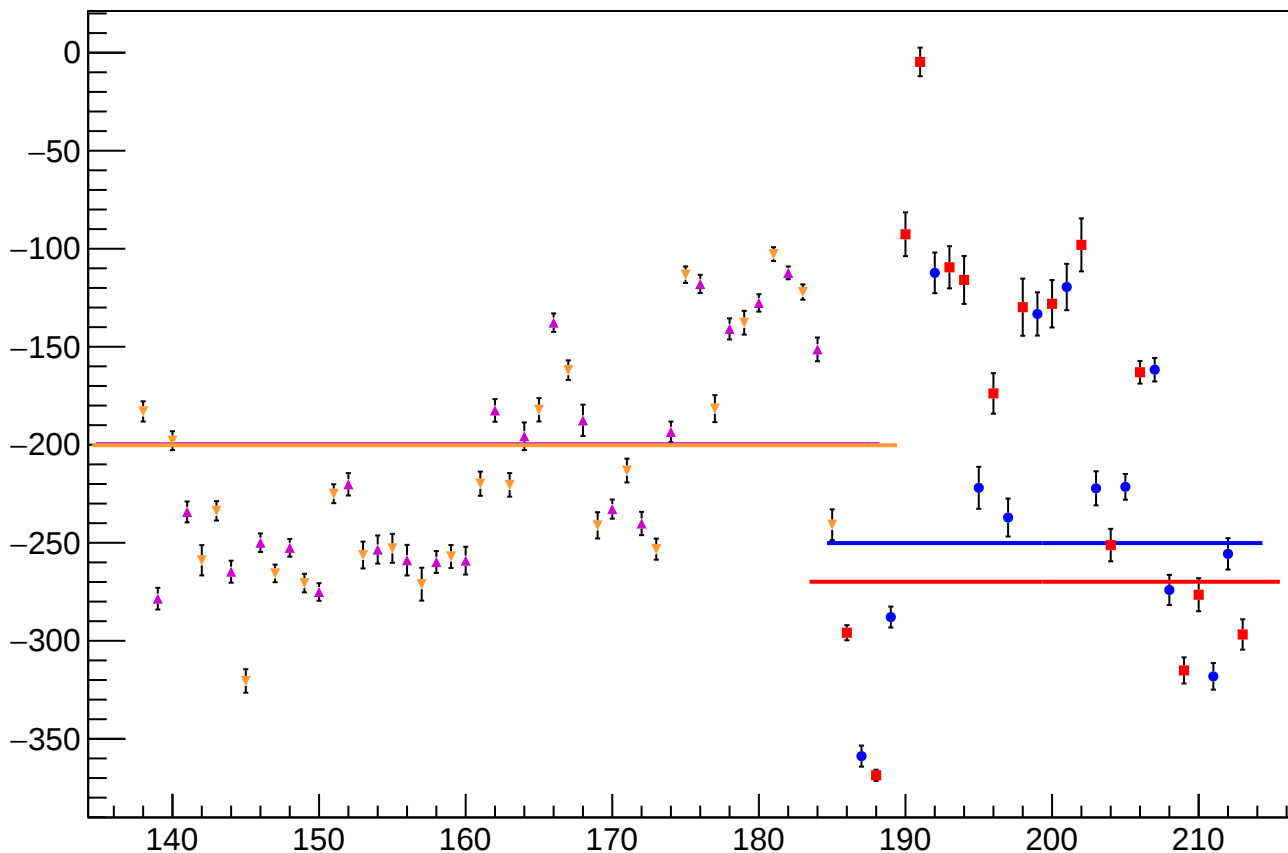
Right: -10.229 ± 0.025 χ^2/NDF : 704402.9/63

In: 2.452 ± 0.015 χ^2/NDF : 1563845.4/52

Out: 1.769 ± 0.015 χ^2/NDF : 1888805.6/58

All: 2.108 ± 0.011 χ^2/NDF : 3453700.0/111

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -250.152 ± 2.074 $\chi^2/\text{NDF}: 1239.4/12$

Left Out: -200.228 ± 1.078 $\chi^2/\text{NDF}: 3225.0/24$

Right Out: -269.881 ± 1.666 $\chi^2/\text{NDF}: 4121.4/14$

Left In: -199.739 ± 1.097 $\chi^2/\text{NDF}: 2968.0/22$

Left: -199.988 ± 0.769 $\chi^2/\text{NDF}: 6193.2/47$

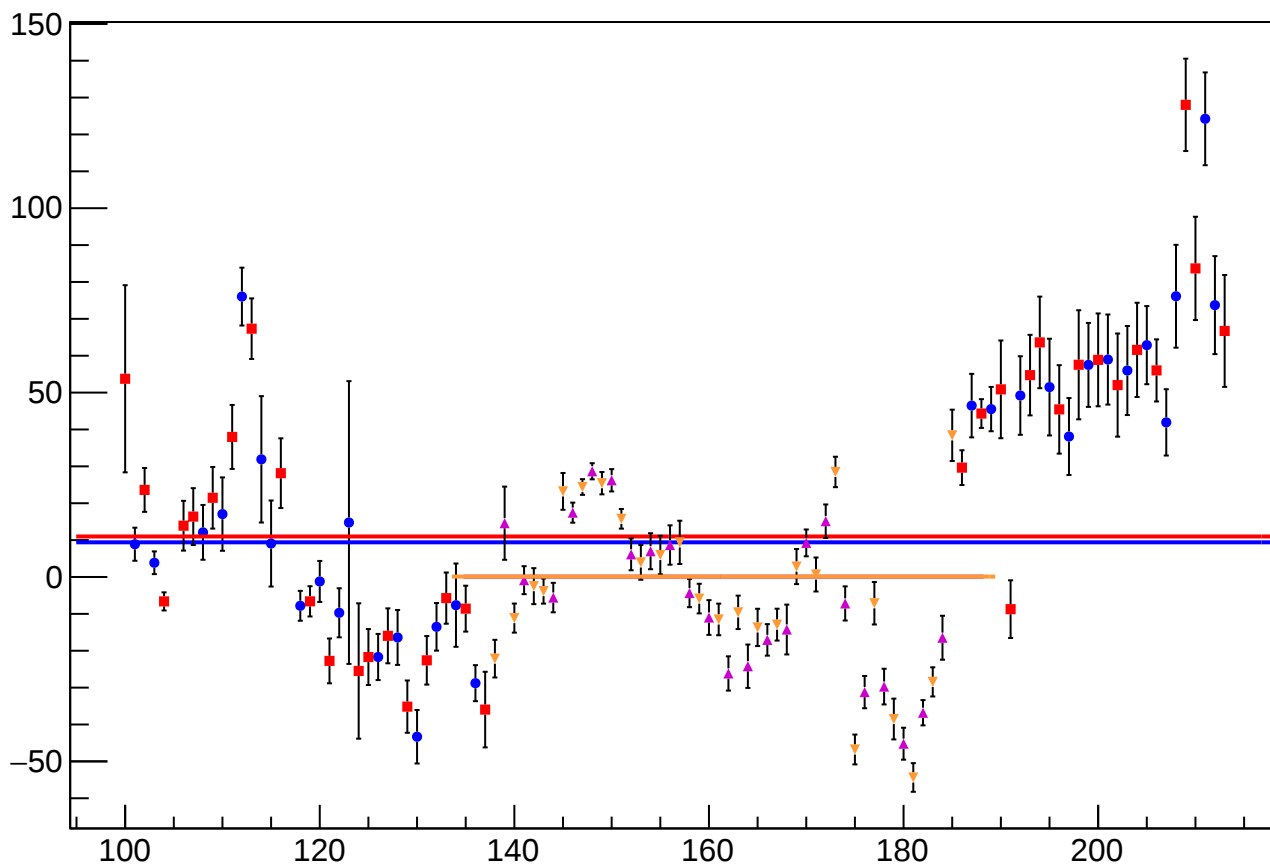
Right: -262.141 ± 1.299 $\chi^2/\text{NDF}: 5415.8/27$

In: -210.767 ± 0.970 $\chi^2/\text{NDF}: 4669.1/35$

Out: -220.773 ± 0.905 $\chi^2/\text{NDF}: 8578.2/39$

All: -216.116 ± 0.662 $\chi^2/\text{NDF}: 13304.2/75$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.401 ± 1.304 χ^2/NDF : 577.3/29

Left Out: 0.109 ± 0.807 χ^2/NDF : 831.2/24

Right Out: 10.985 ± 1.180 χ^2/NDF : 662.4/33

Left In: 0.097 ± 0.838 χ^2/NDF : 715.5/22

Left: 0.103 ± 0.581 χ^2/NDF : 1546.7/47

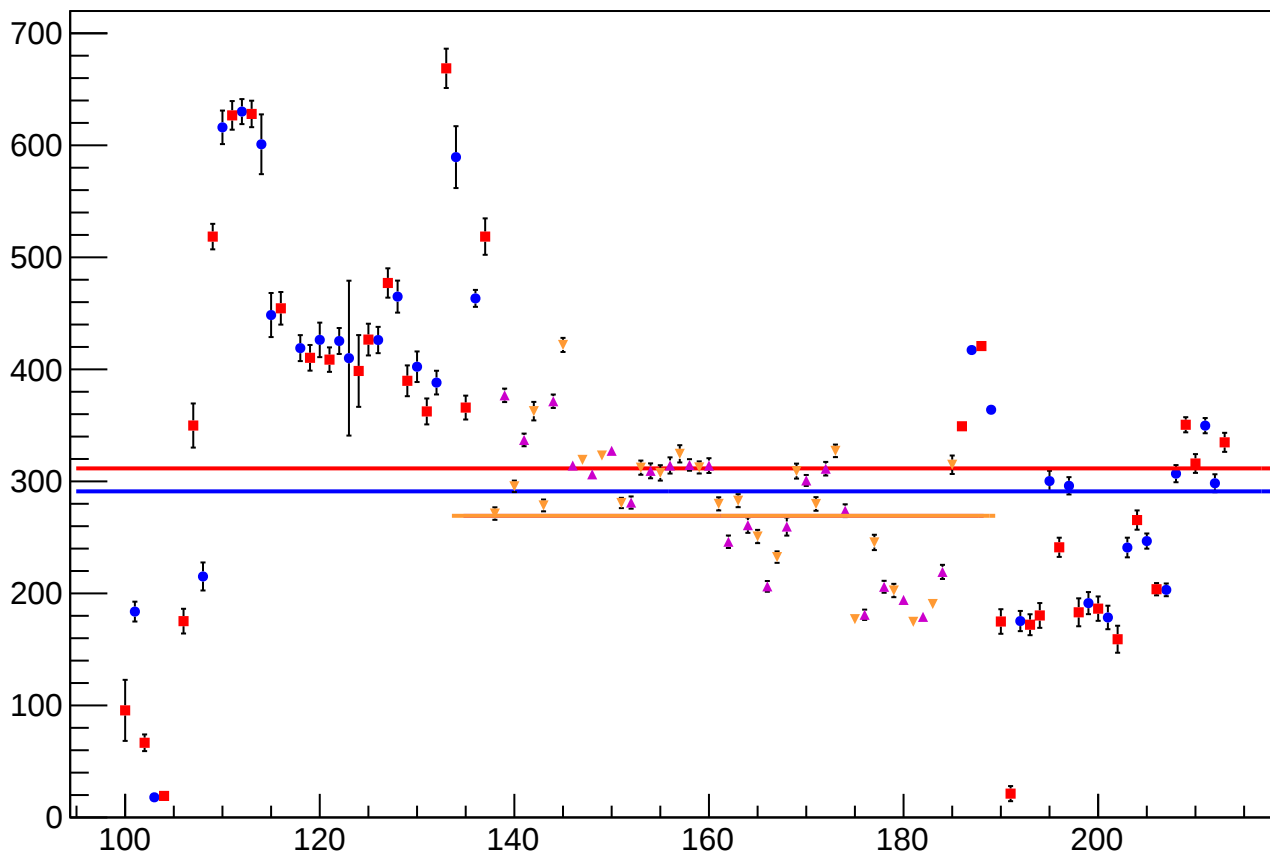
Right: 10.272 ± 0.875 χ^2/NDF : 1240.5/63

In: 2.815 ± 0.705 χ^2/NDF : 1328.8/52

Out: 3.577 ± 0.666 χ^2/NDF : 1551.6/58

All: 3.218 ± 0.484 χ^2/NDF : 2881.0/111

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 291.095+/-1.502 χ^2 /NDF: 9592.4/29

Left Out: 269.278+/-1.078 χ^2 /NDF:3146.7/24

Right Out: 311.593+/-1.241 χ^2 /NDF: 14403.6/33

Left In: 269.191+/-1.091 χ^2 /NDF:3170.2/22

Left: 269.235+/-0.767 χ^2 /NDF: 6316.9/47

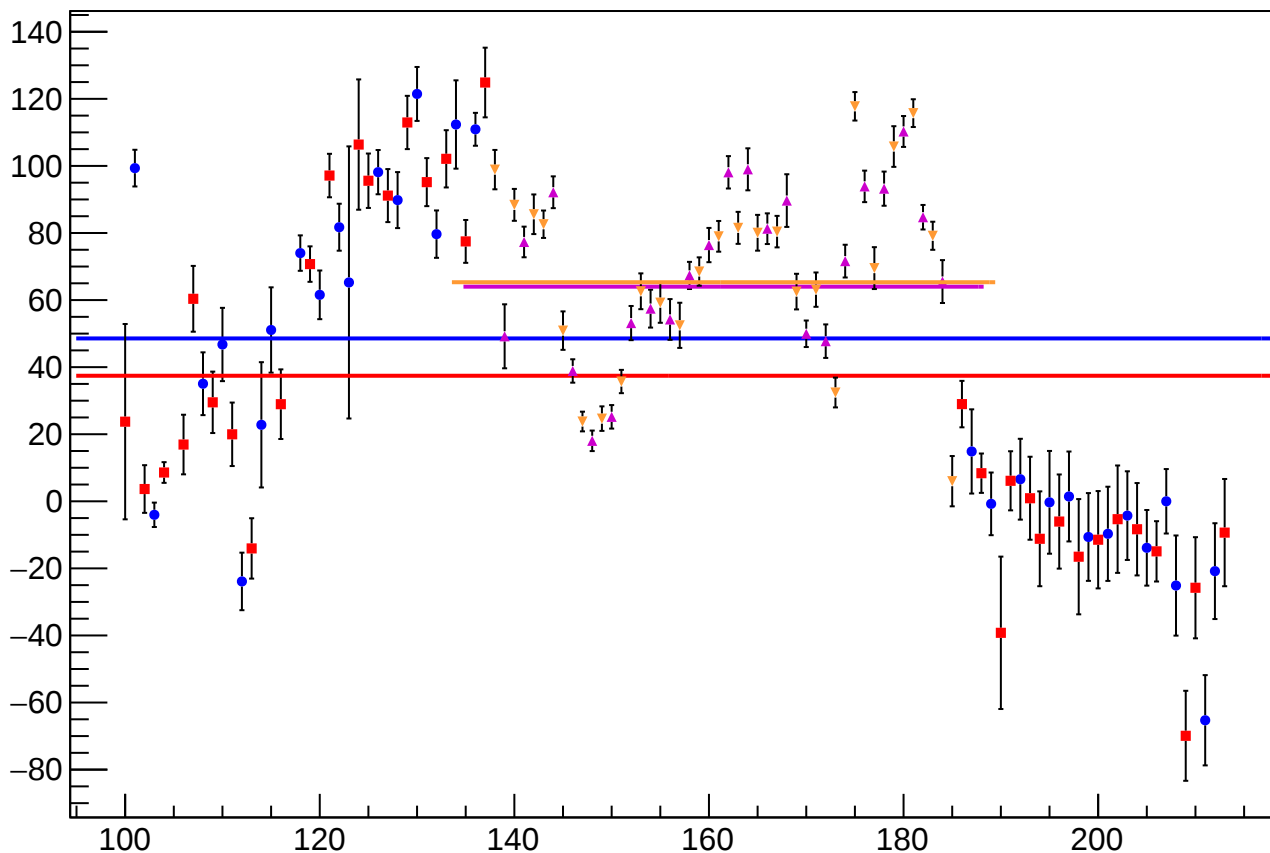
Right: 303.273+/-0.957 χ^2 /NDF: 24106.8/63

In: 276.756+/-0.882 χ^2 /NDF:12902.0/52

Out: 287.467+/-0.814 χ^2 /NDF:18213.1/58

All: 282.544+/-0.598 χ^2 /NDF: 31194.7/111

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 48.562 $\pm$ 1.521 χ^2/NDF : 1086.2/29

Left Out: 65.323 $\pm$ 0.935 χ^2/NDF : 1007.1/24

Right Out: 37.435 $\pm$ 1.422 χ^2/NDF : 959.7/33

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

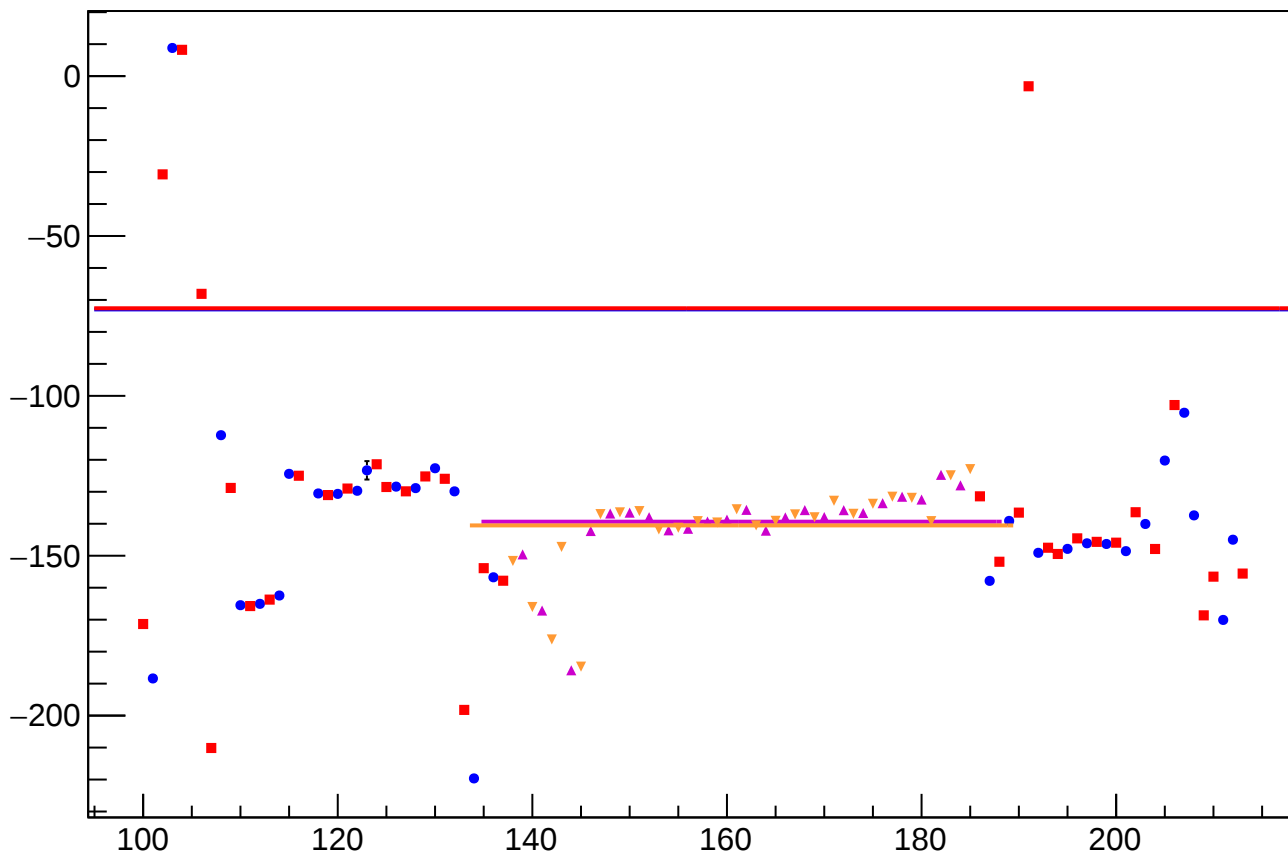
Right: 42.622 $\pm$ 1.039 χ^2/NDF : 2074.5/63

In: 59.584 $\pm$ 0.814 χ^2/NDF : 1959.2/52

Out: 56.906 $\pm$ 0.781 χ^2/NDF : 2235.5/58

All: 58.190 $\pm$ 0.563 χ^2/NDF : 4200.3/111

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -72.962 ± 0.062 $\chi^2/\text{NDF}: 1585222.6/29$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -72.609 ± 0.060 $\chi^2/\text{NDF}: 1435805.3/33$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

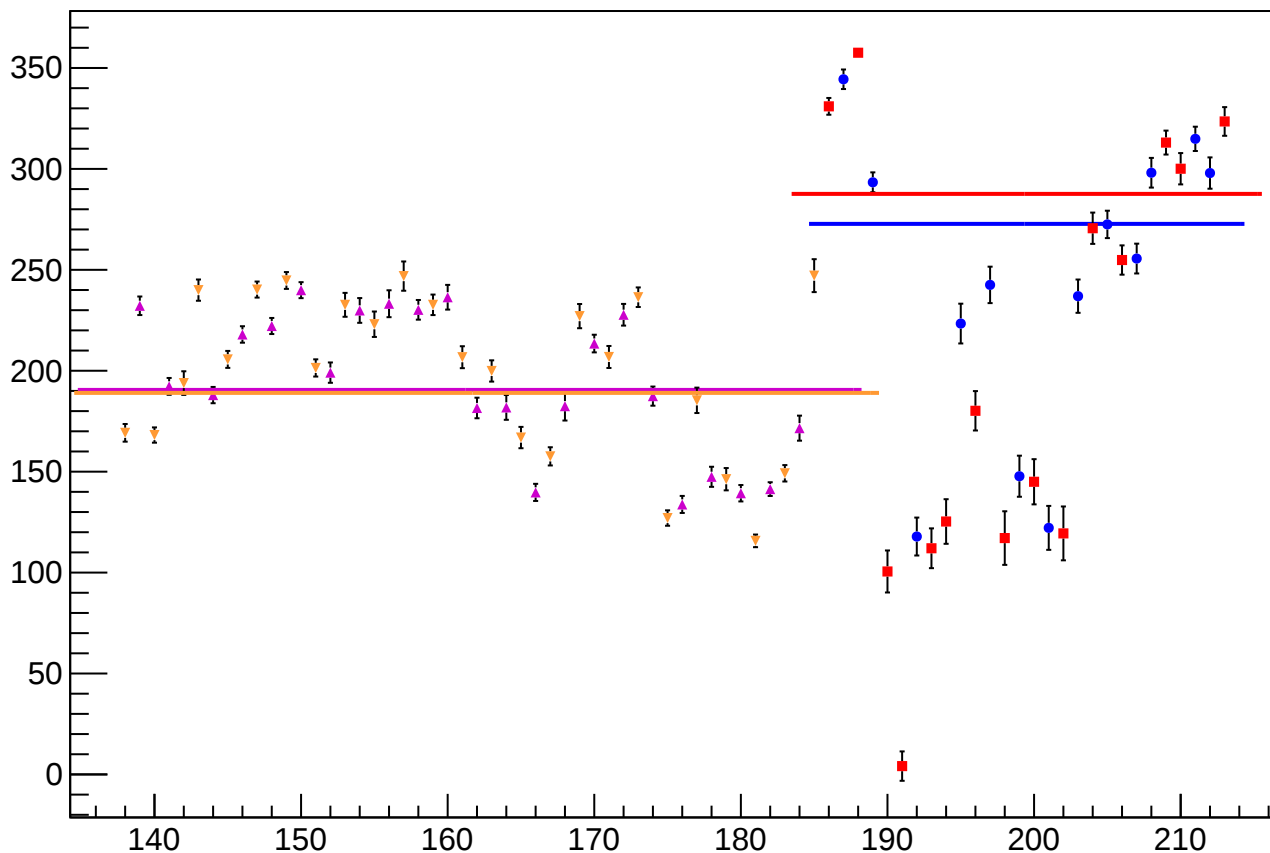
Right: -72.781 ± 0.043 $\chi^2/\text{NDF}: 3021044.5/63$

In: -116.391 ± 0.036 $\chi^2/\text{NDF}: 2400464.8/52$

Out: -116.478 ± 0.036 $\chi^2/\text{NDF}: 2335768.5/58$

All: -116.435 ± 0.026 $\chi^2/\text{NDF}: 4736236.2/111$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 272.766 $\pm$ 1.986 χ^2 /NDF: 982.9/12

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 287.623 $\pm$ 1.593 χ^2 /NDF: 3940.1/14

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

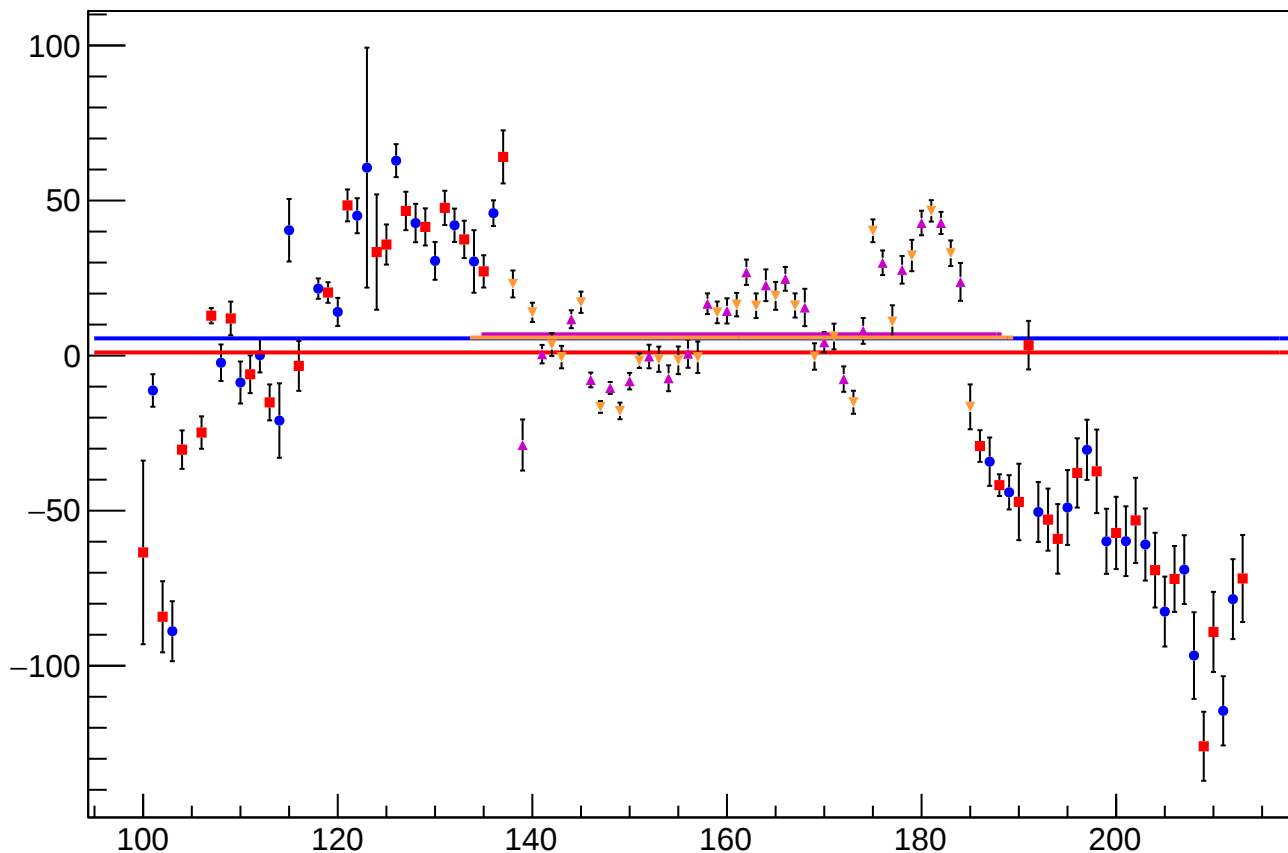
Right: 281.806 $\pm$ 1.243 χ^2 /NDF: 4957.1/27

In: 206.484 $\pm$ 0.875 χ^2 /NDF:3777.9/35

Out: 215.133 $\pm$ 0.820 χ^2 /NDF:8737.6/39

All: 211.092 $\pm$ 0.598 χ^2 /NDF: 12567.6/75

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.556 $\pm$ 1.242 χ^2 /NDF: 1122.3/29

Left Out: 5.834 $\pm$ 0.712 χ^2 /NDF:652.2/24

Right Out: 1.021 $\pm$ 1.063 χ^2 /NDF: 1189.9/33

Left In: 6.862 $\pm$ 0.736 χ^2 /NDF:522.7/22

Left: 6.331 $\pm$ 0.512 χ^2 /NDF: 1176.0/47

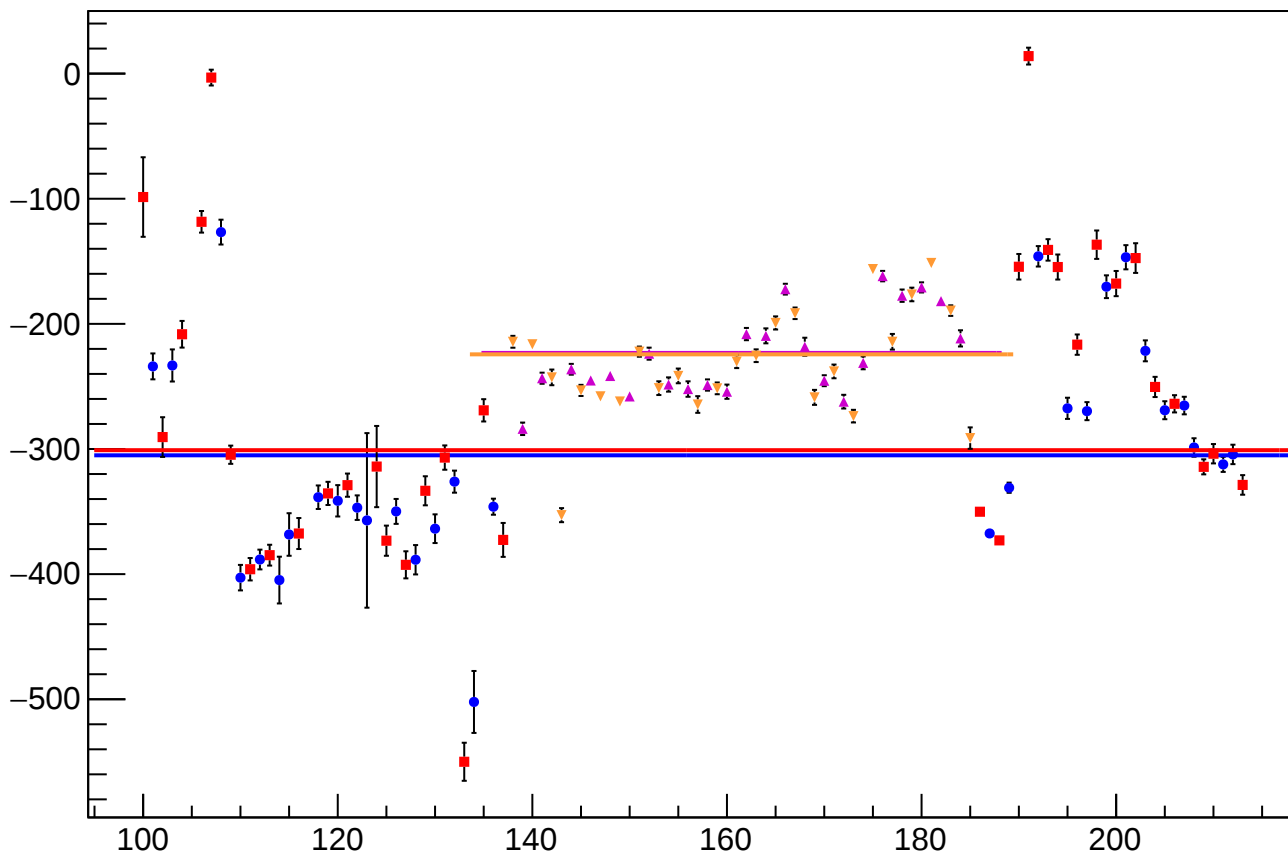
Right: 2.939 $\pm$ 0.808 χ^2 /NDF: 2319.9/63

In: 6.522 $\pm$ 0.633 χ^2 /NDF:1645.9/52

Out: 4.343 $\pm$ 0.592 χ^2 /NDF:1856.3/58

All: 5.359 $\pm$ 0.432 χ^2 /NDF: 3508.4/111

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -305.052 ± 1.473 χ^2/NDF : 2250.5/29

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -300.947 ± 1.183 χ^2/NDF : 8677.6/33

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

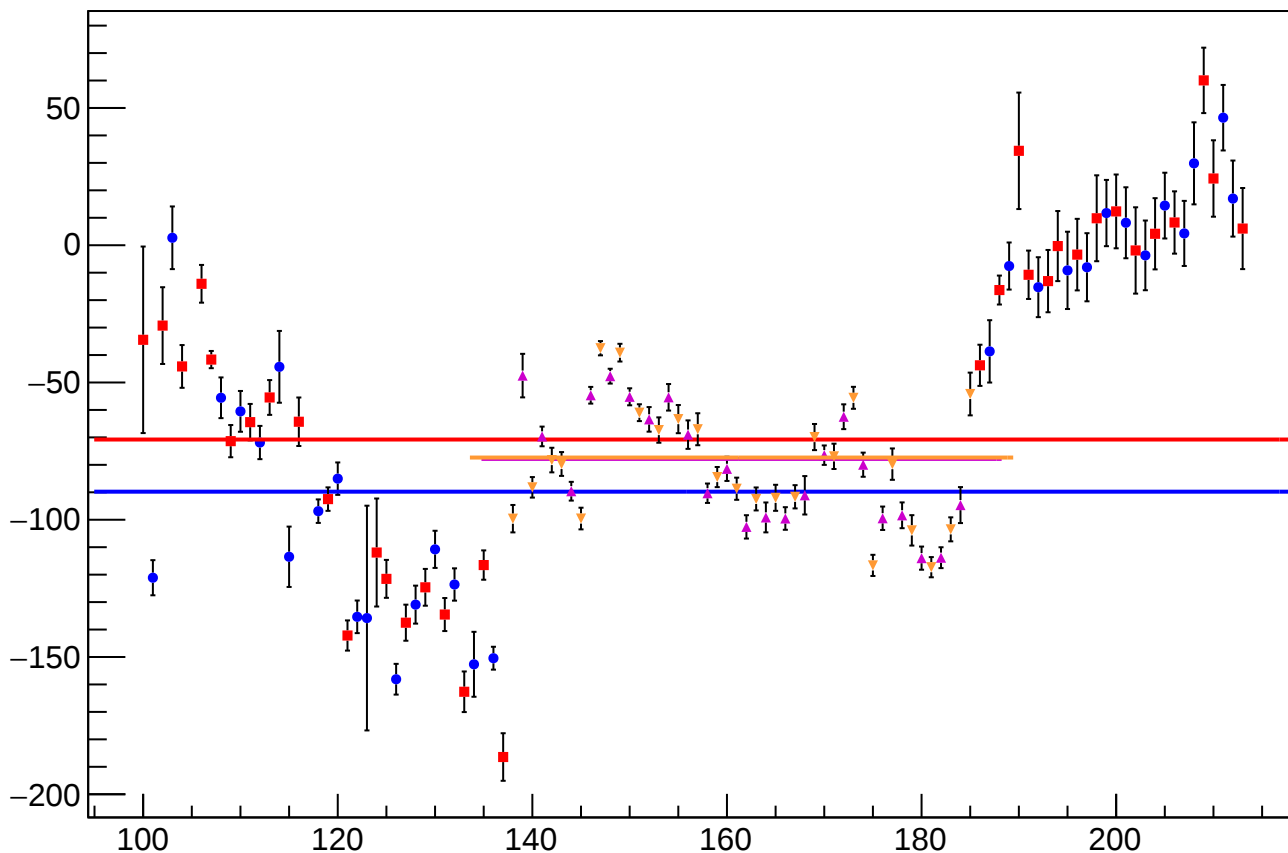
Right: -302.555 ± 0.922 χ^2/NDF : 10932.8/63

In: -247.934 ± 0.810 χ^2/NDF : 5672.6/52

Out: -254.631 ± 0.743 χ^2/NDF : 13316.9/58

All: -251.568 ± 0.548 χ^2/NDF : 19026.6/111

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -89.775 ± 1.441 $\chi^2/\text{NDF}: 1484.2/29$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -70.777 ± 1.272 $\chi^2/\text{NDF}: 1755.3/33$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

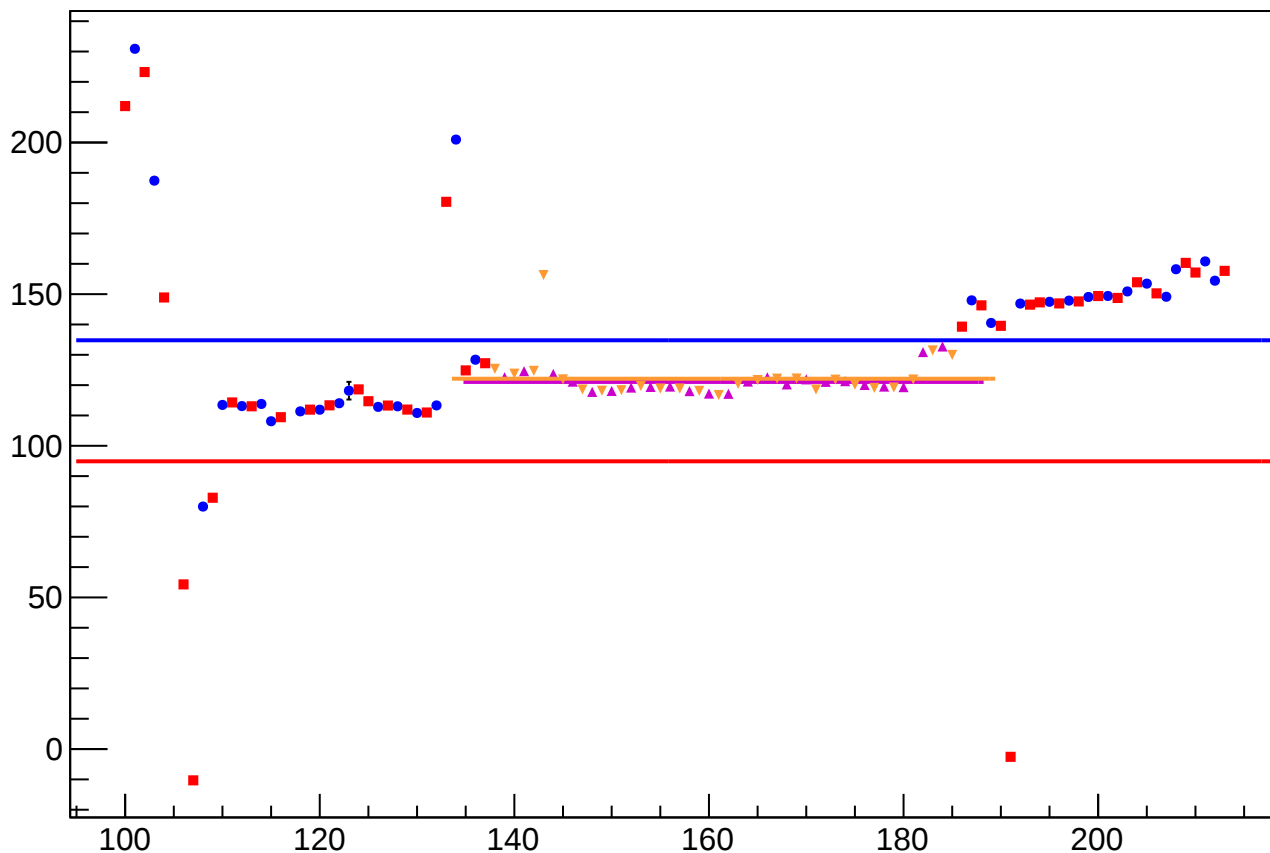
Right: -79.092 ± 0.954 $\chi^2/\text{NDF}: 3337.2/63$

In: -80.912 ± 0.731 $\chi^2/\text{NDF}: 2157.9/52$

Out: -75.393 ± 0.693 $\chi^2/\text{NDF}: 2620.3/58$

All: -78.004 ± 0.503 $\chi^2/\text{NDF}: 4808.2/111$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 134.790 $\pm$ 0.073 χ^2 /NDF: 209374.2/29

Left Out: 122.119 $\pm$ 0.039 χ^2 /NDF:30480.7/24

Right Out: 94.884 $\pm$ 0.061 χ^2 /NDF: 1161213.5/33

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

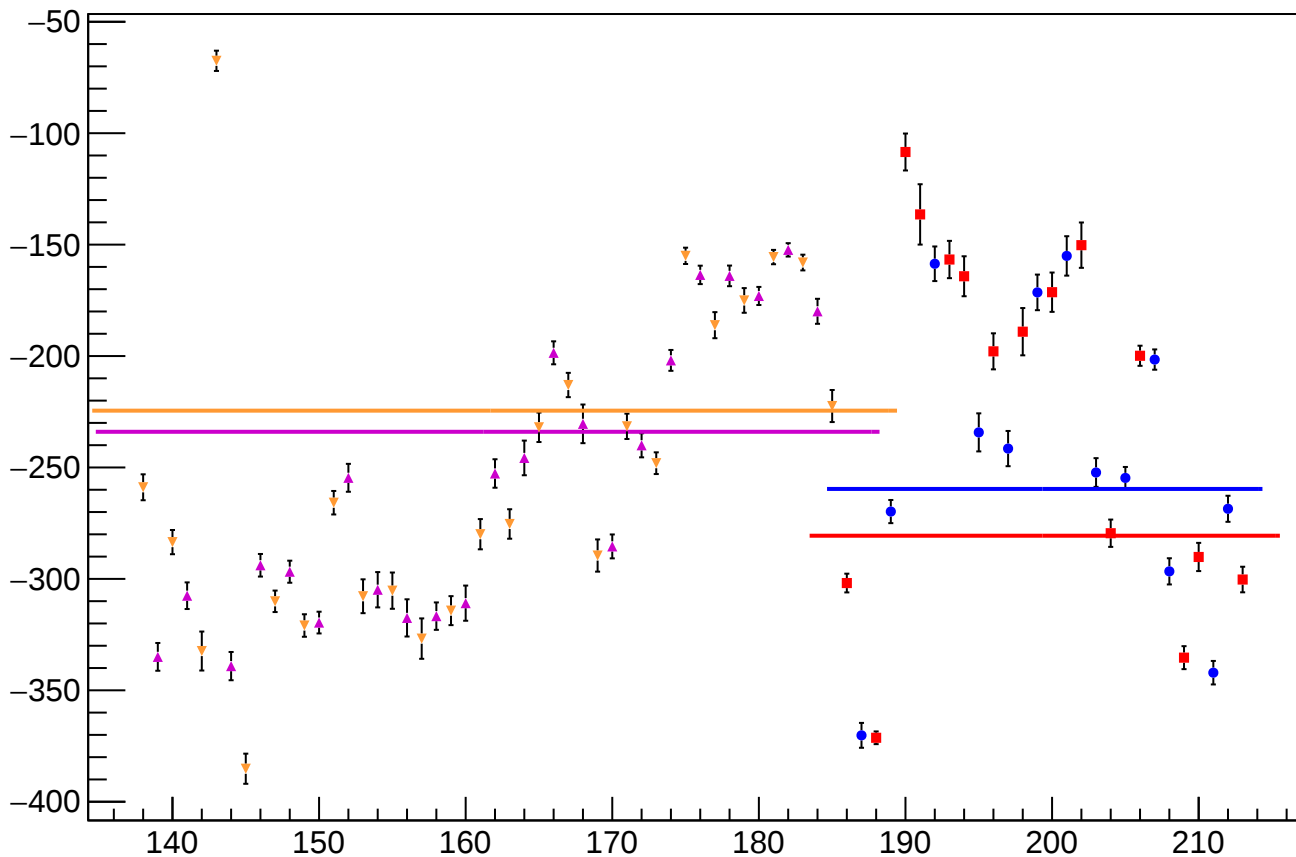
Right: 111.478 $\pm$ 0.047 χ^2 /NDF: 1545836.6/63

In: 124.204 $\pm$ 0.035 χ^2 /NDF:244695.3/52

Out: 114.185 $\pm$ 0.033 χ^2 /NDF:1330807.5/58

All: 118.943 $\pm$ 0.024 χ^2 /NDF: 1618812.8/111

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -259.635 ± 1.686 χ^2/NDF : 1292.2/12

Left Out: -224.501 ± 1.079 χ^2/NDF : 4870.6/24

Right Out: -280.626 ± 1.505 χ^2/NDF : 2912.2/14

Left In: -233.988 ± 1.109 χ^2/NDF : 3538.4/22

Left: -229.116 ± 0.773 χ^2/NDF : 8446.6/47

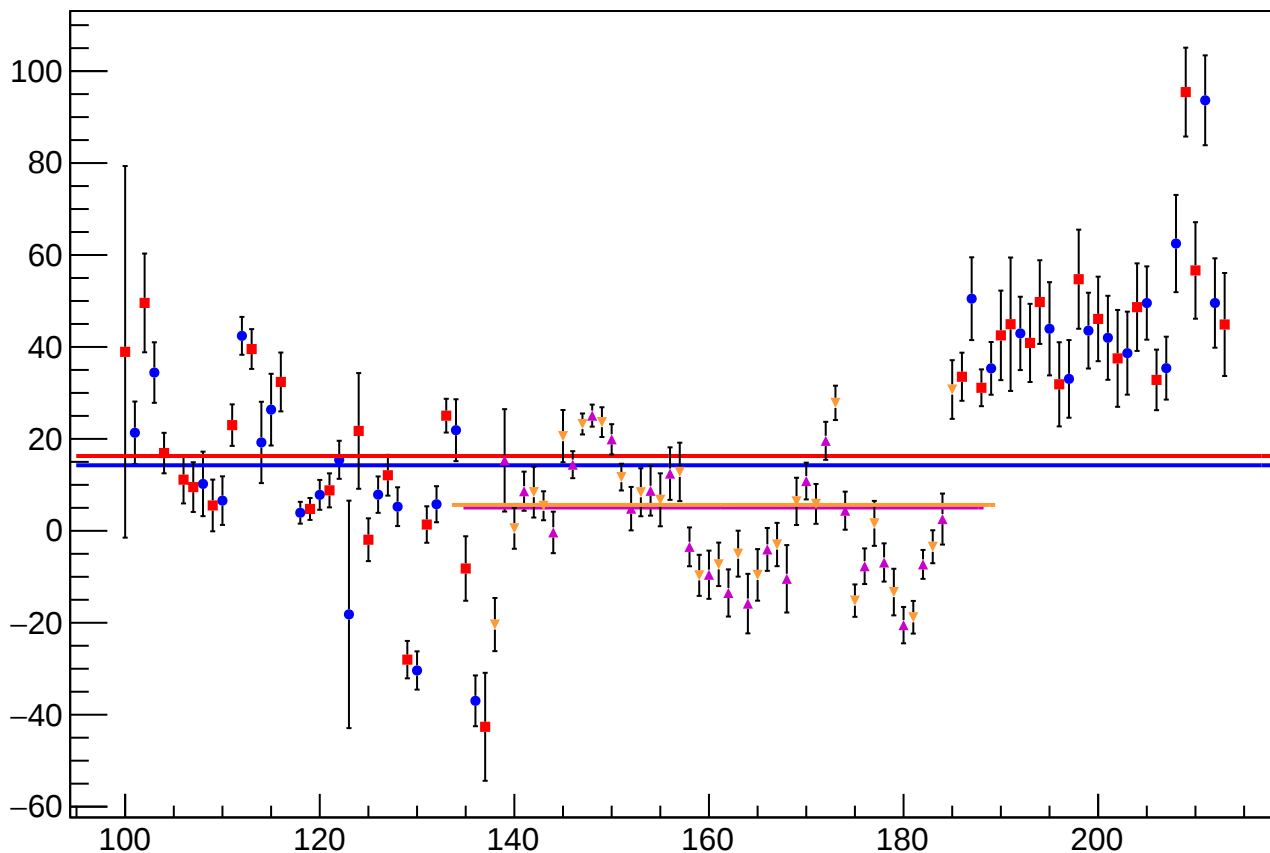
Right: -271.319 ± 1.123 χ^2/NDF : 4290.7/27

In: -241.727 ± 0.926 χ^2/NDF : 4992.1/35

Out: -243.558 ± 0.877 χ^2/NDF : 8701.4/39

All: -242.693 ± 0.637 χ^2/NDF : 13695.6/75

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.259 $\pm$ 0.997 χ^2 /NDF: 515.5/29

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 16.279 $\pm$ 0.948 χ^2 /NDF: 467.2/33

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

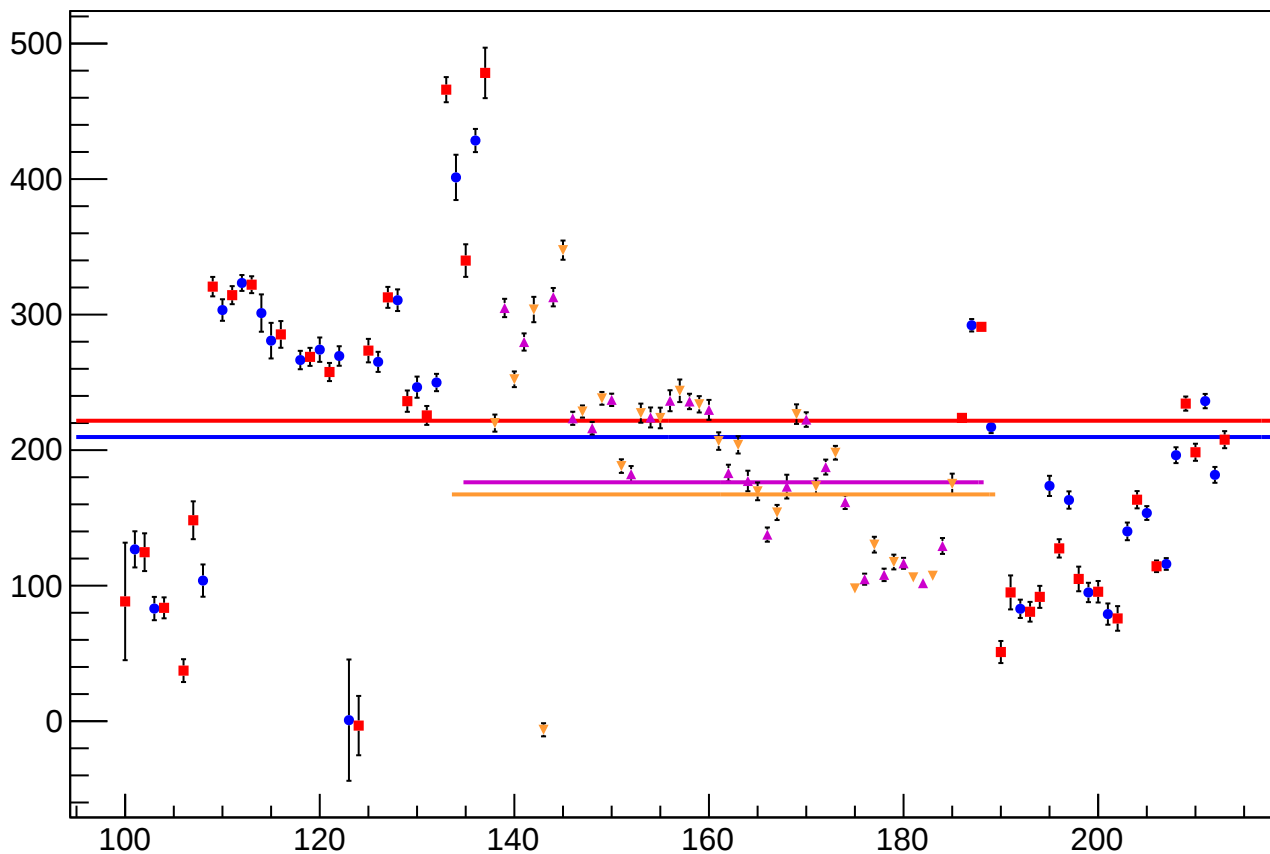
Right: 15.319 $\pm$ 0.687 χ^2 /NDF: 984.8/63

In: 9.043 $\pm$ 0.655 χ^2 /NDF:803.4/52

Out: 10.241 $\pm$ 0.624 χ^2 /NDF:852.3/58

All: 9.671 $\pm$ 0.452 χ^2 /NDF: 1657.5/111

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 209.664 $\pm$ 1.253 χ^2 /NDF: 4243.9/29

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 221.688 $\pm$ 1.107 χ^2 /NDF: 6595.7/33

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

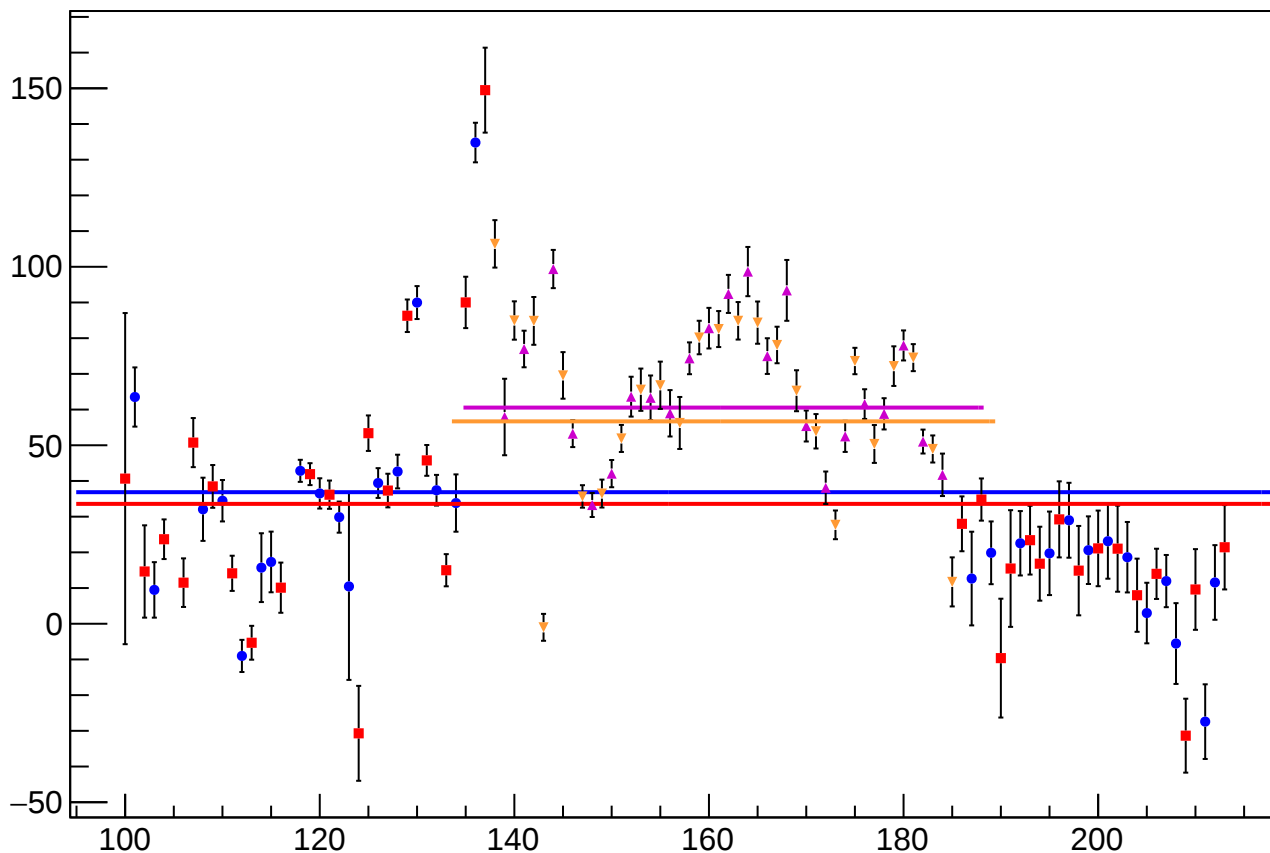
Right: 216.418 $\pm$ 0.830 χ^2 /NDF: 10891.3/63

In: 190.885 $\pm$ 0.829 χ^2 /NDF:7812.5/52

Out: 193.896 $\pm$ 0.774 χ^2 /NDF:12282.7/58

All: 192.494 $\pm$ 0.566 χ^2 /NDF: 20102.3/111

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.858 $\pm$ 1.155 χ^2 /NDF: 696.6/29

Left Out: 56.695 $\pm$ 0.952 χ^2 /NDF: 690.4/24

Right Out: 33.580 $\pm$ 1.110 χ^2 /NDF: 555.5/33

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

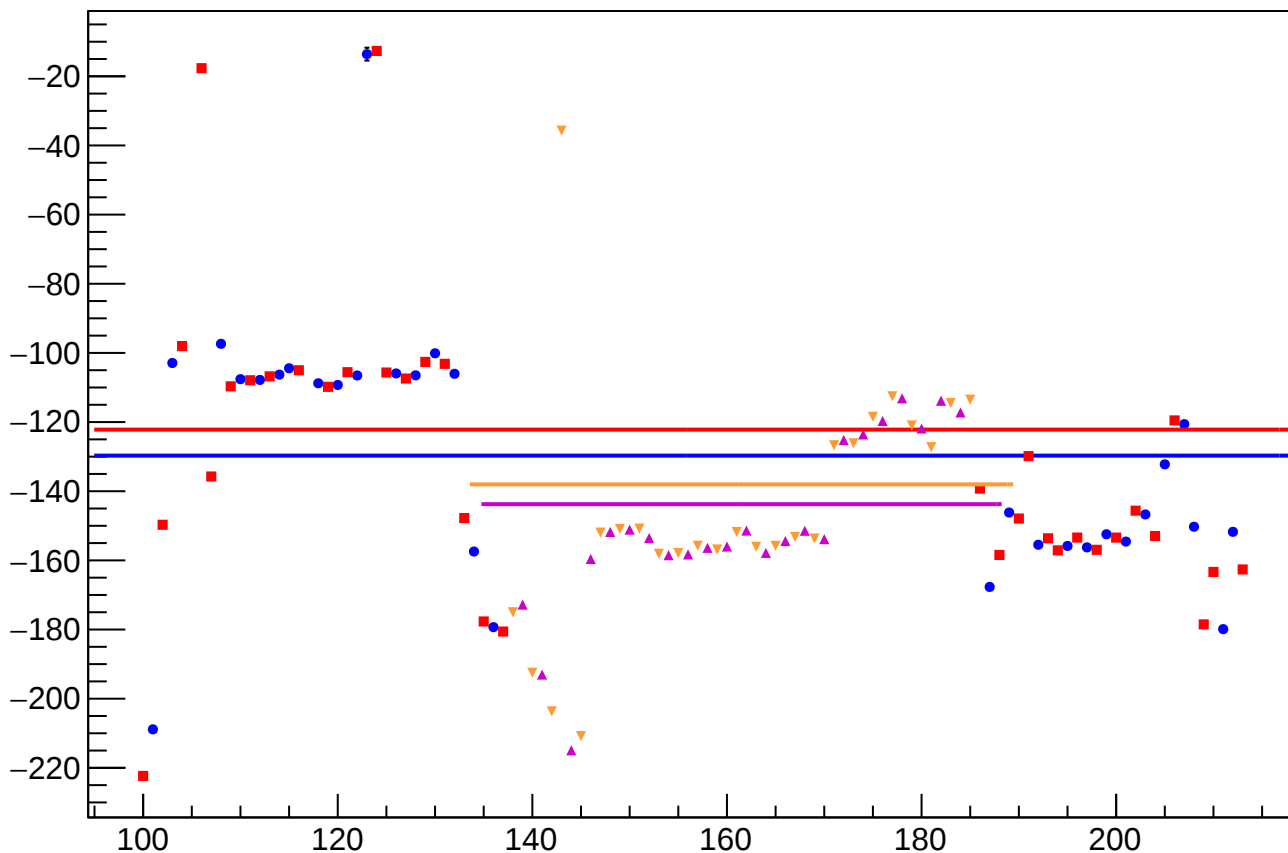
Right: 35.154 $\pm$ 0.800 χ^2 /NDF: 1256.3/63

In: 50.512 $\pm$ 0.752 χ^2 /NDF: 1275.0/52

Out: 46.901 $\pm$ 0.723 χ^2 /NDF: 1495.8/58

All: 48.636 $\pm$ 0.521 χ^2 /NDF: 2782.8/111

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -129.704 ± 0.061 χ^2/NDF : 221286.8/29

Left Out: -138.008 ± 0.045 χ^2/NDF : 565767.2/24

Right Out: -122.177 ± 0.058 χ^2/NDF : 480512.0/33

Left In: -143.735 ± 0.046 χ^2/NDF : 258408.3/22

Left: -140.811 ± 0.032 χ^2/NDF : 832055.2/47

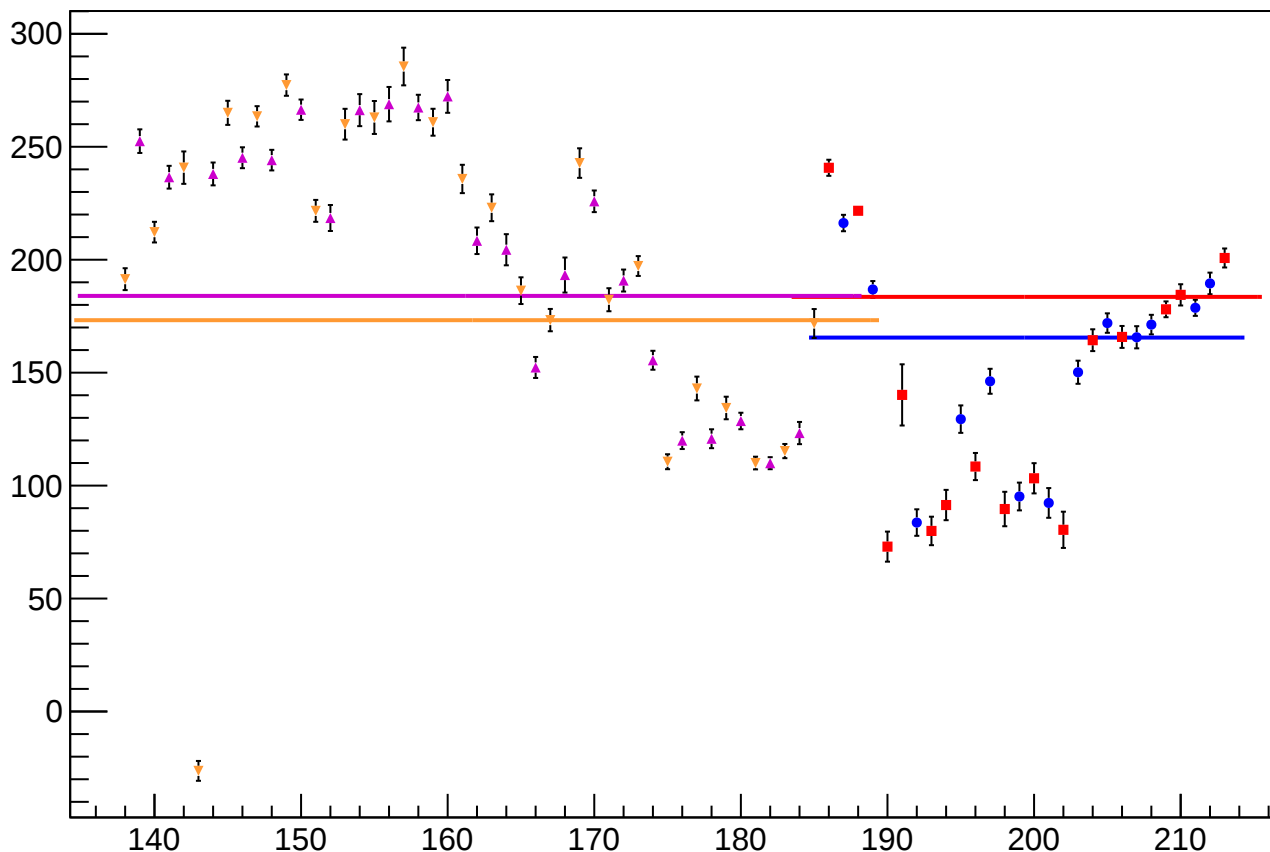
Right: -125.703 ± 0.042 χ^2/NDF : 709769.1/63

In: -138.684 ± 0.037 χ^2/NDF : 513046.8/52

Out: -132.000 ± 0.036 χ^2/NDF : 1092983.6/58

All: -135.219 ± 0.026 χ^2/NDF : 1623057.0/111

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 165.531 $\pm$ 1.296 χ^2 /NDF: 776.6/12

Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF: 5846.0/24

Right Out: 183.550 $\pm$ 1.123 χ^2 /NDF: 2086.4/14

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

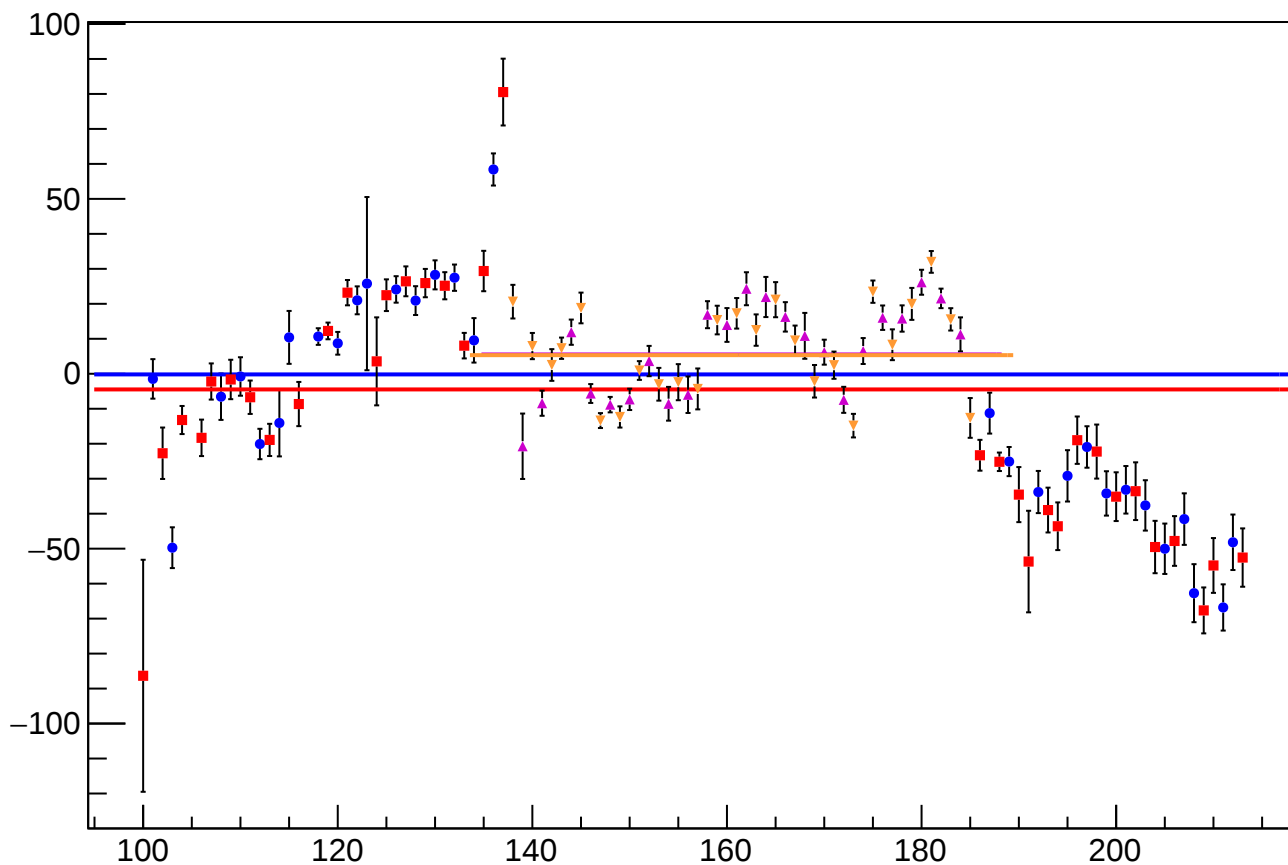
Right: 175.824 $\pm$ 0.848 χ^2 /NDF: 2973.5/27

In: 177.174 $\pm$ 0.787 χ^2 /NDF: 4518.3/35

Out: 177.618 $\pm$ 0.732 χ^2 /NDF: 7980.9/39

All: 177.412 $\pm$ 0.536 χ^2 /NDF: 12499.4/75

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.183 ± 0.920 χ^2/NDF : 941.5/29

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -4.477 ± 0.865 χ^2/NDF : 920.5/33

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

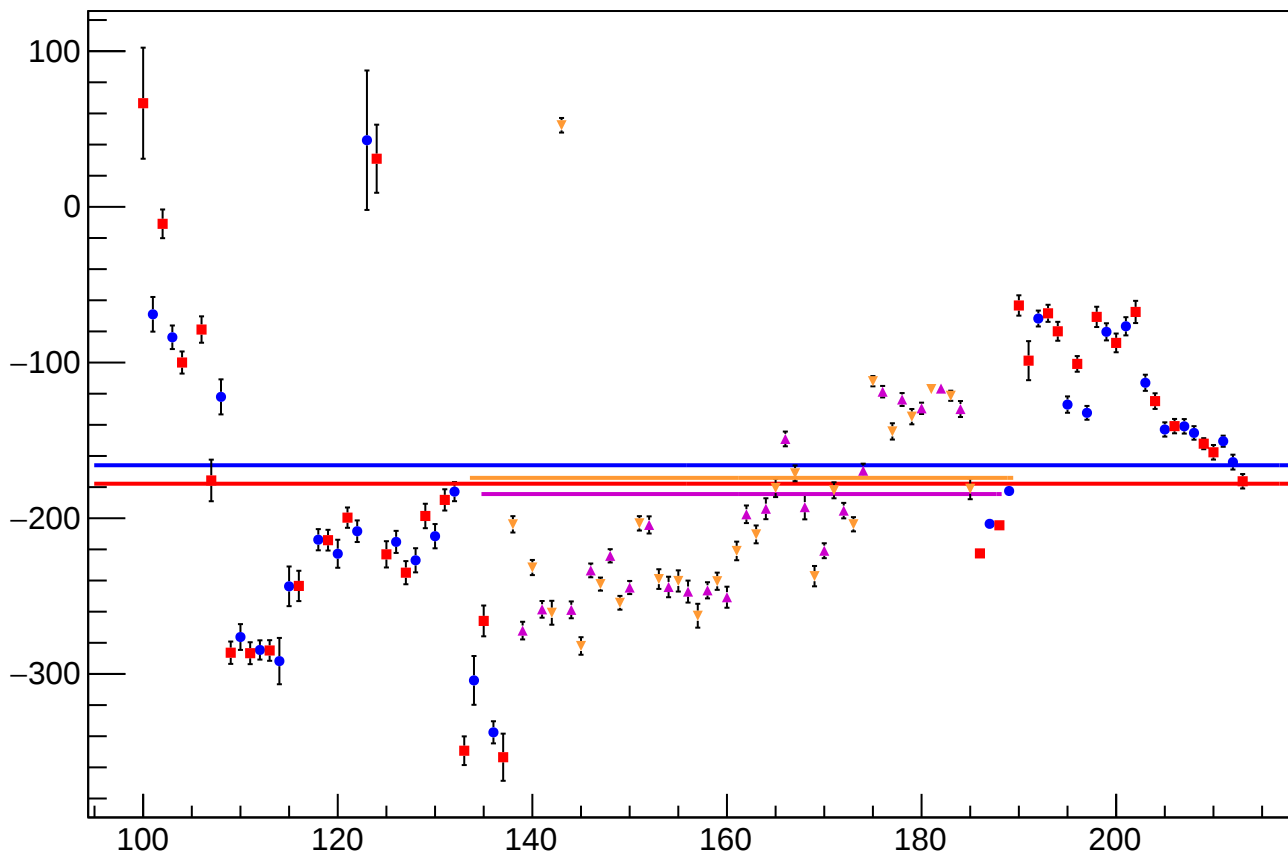
Right: -2.461 ± 0.630 χ^2/NDF : 1873.6/63

In: 3.135 ± 0.595 χ^2/NDF : 1220.2/52

Out: 1.135 ± 0.566 χ^2/NDF : 1339.5/58

All: 2.084 ± 0.410 χ^2/NDF : 2565.7/111

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -165.958 ± 1.025 χ^2/NDF : 3140.2/29

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -177.817 ± 0.878 χ^2/NDF : 4983.5/33

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

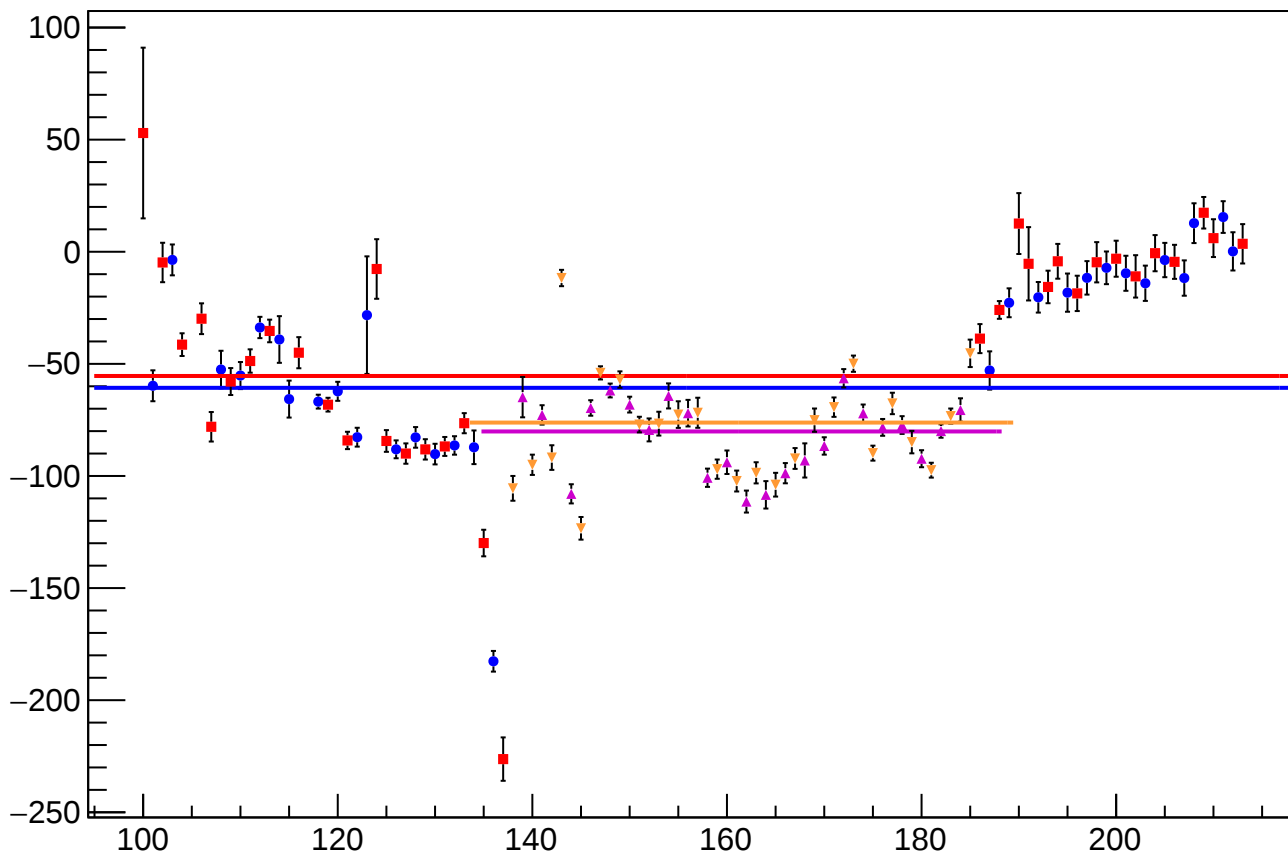
Right: -172.794 ± 0.667 χ^2/NDF : 8201.0/63

In: -175.519 ± 0.712 χ^2/NDF : 6360.3/52

Out: -176.126 ± 0.651 χ^2/NDF : 10435.0/58

All: -175.850 ± 0.481 χ^2/NDF : 16795.7/111

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -60.688+/-1.070 χ^2/NDF : 1602.4/29

Left Out: -76.182+/-0.857 χ^2/NDF : 801.0/24

Right Out: -55.402+/-1.025 χ^2/NDF : 1457.9/33

Left In: -80.149+/-0.889 χ^2/NDF : 283.3/22

Left: -78.094+/-0.617 χ^2/NDF : 1094.6/47

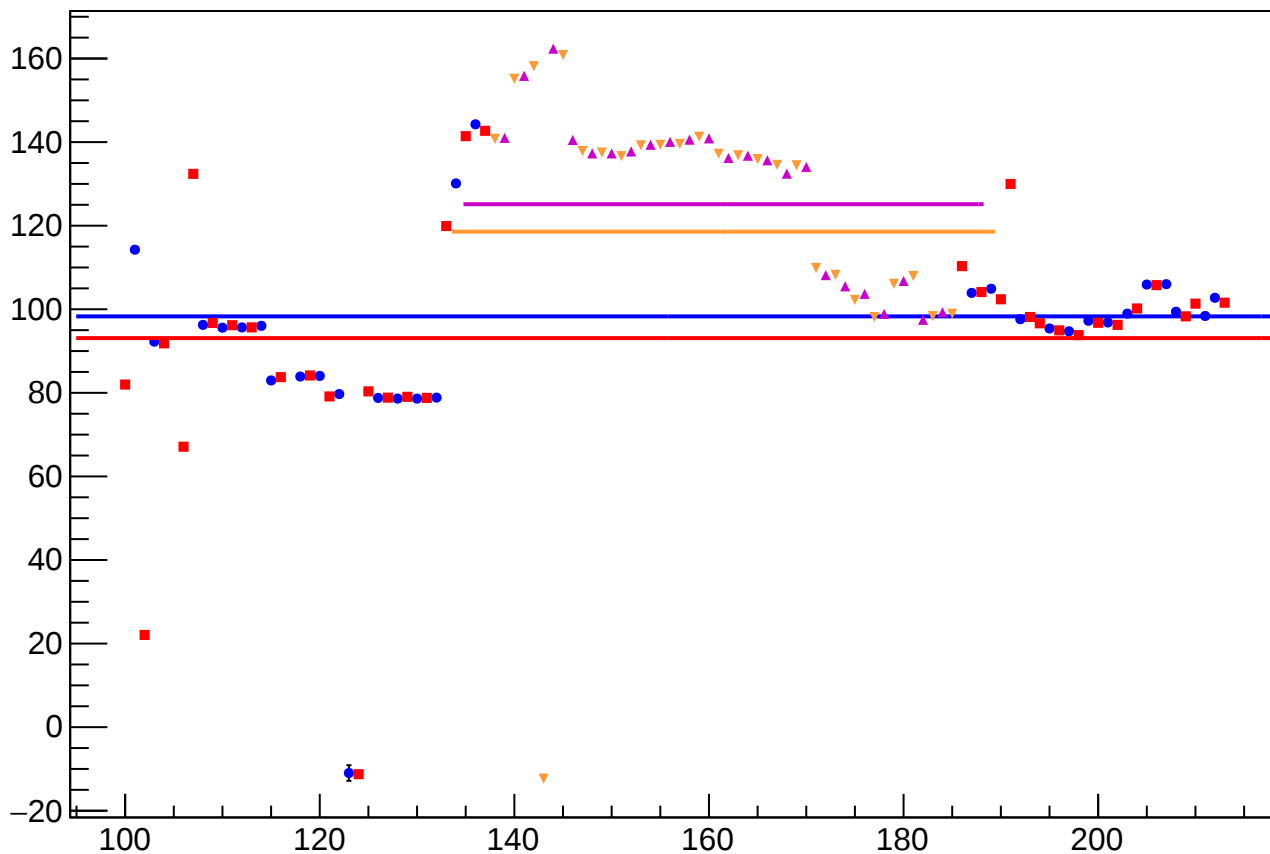
Right: -57.931+/-0.740 χ^2/NDF : 3073.0/63

In: -72.202+/-0.684 χ^2/NDF : 2081.3/52

Out: -67.626+/-0.658 χ^2/NDF : 2500.8/58

All: -69.825+/-0.474 χ^2/NDF : 4605.4/111

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.297 $\pm$ 0.054 χ^2/NDF : 96224.4/29

Left Out: 118.569 $\pm$ 0.040 χ^2/NDF : 728689.7/24

Right Out: 93.098 $\pm$ 0.050 χ^2/NDF : 244294.1/33

Left In: 125.139 $\pm$ 0.041 χ^2/NDF : 220927.1/22

Left: 121.790 $\pm$ 0.029 χ^2/NDF : 962526.8/47

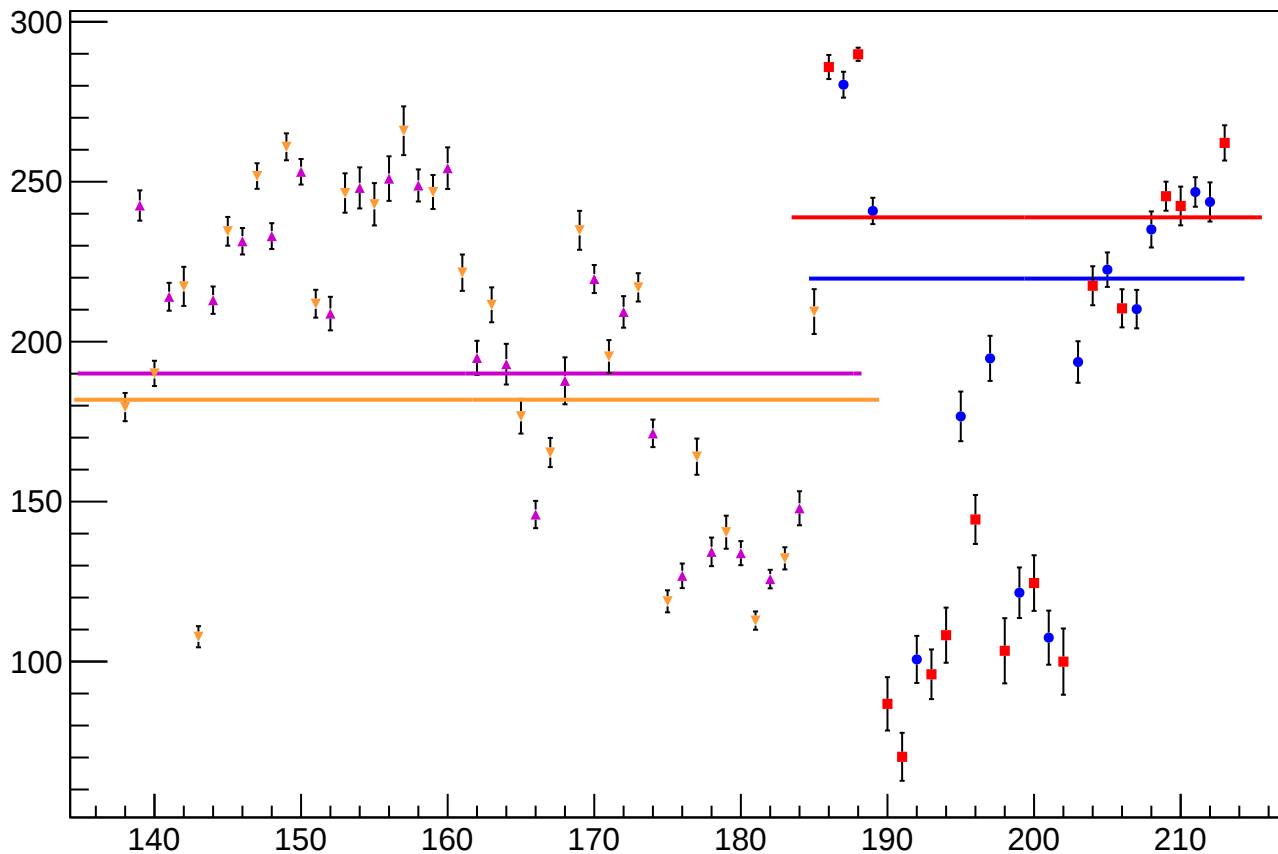
Right: 95.525 $\pm$ 0.037 χ^2/NDF : 345521.2/63

In: 115.161 $\pm$ 0.033 χ^2/NDF : 474308.3/52

Out: 108.536 $\pm$ 0.032 χ^2/NDF : 1128842.2/58

All: 111.725 $\pm$ 0.023 χ^2/NDF : 1624410.8/111

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 219.719 +/- 1.588 χ^2/NDF : 962.7/12

Left Out: 181.850 +/- 0.913 χ^2/NDF : 3303.4/24

Right Out: 238.867 +/- 1.313 χ^2/NDF : 2907.2/14

Left In: 190.048 +/- 0.953 χ^2/NDF : 2438.4/22

Left: 185.775 +/- 0.659 χ^2/NDF : 5780.3/47

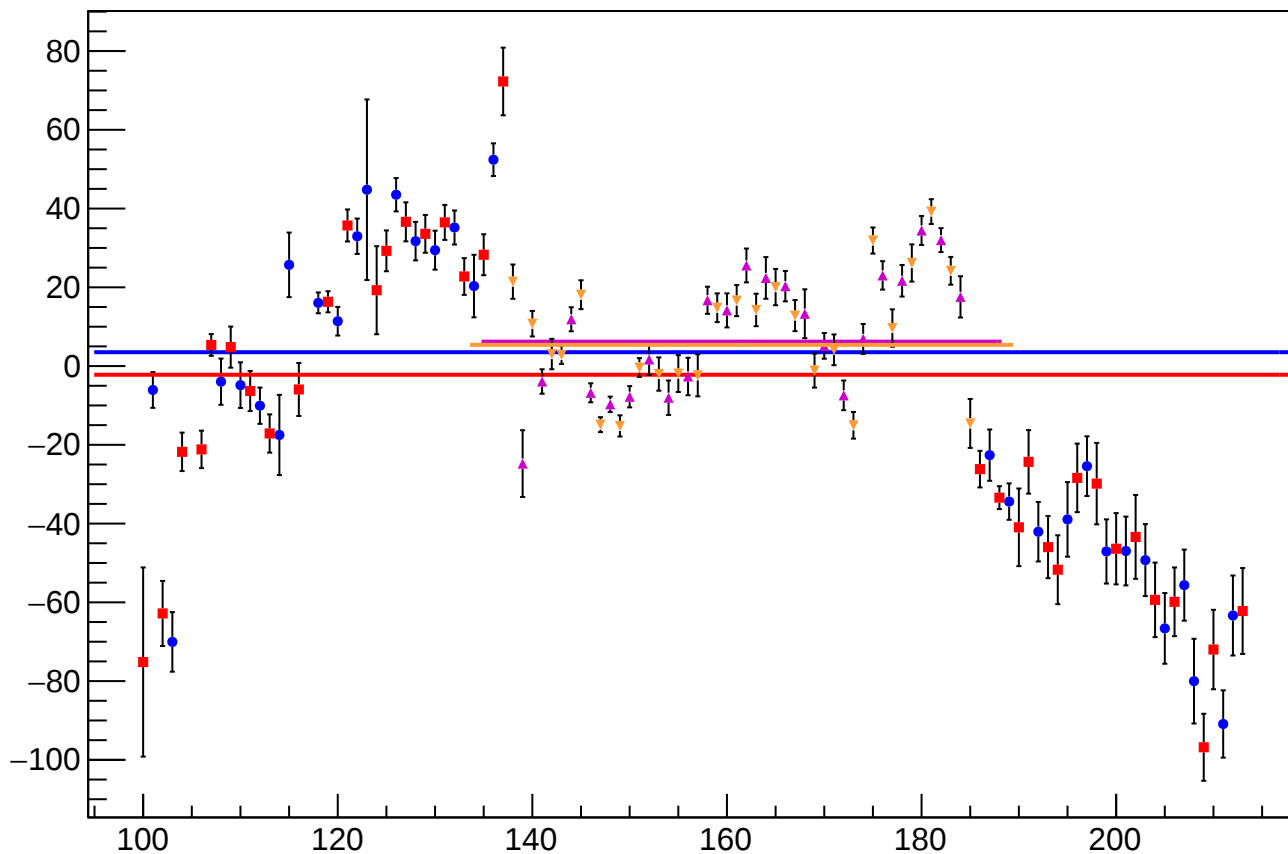
Right: 231.091 +/- 1.012 χ^2/NDF : 3956.2/27

In: 197.900 +/- 0.817 χ^2/NDF : 3657.7/35

Out: 200.435 +/- 0.750 χ^2/NDF : 7480.8/39

All: 199.276 +/- 0.552 χ^2/NDF : 11143.7/75

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.520 ± 1.028 $\chi^2/\text{NDF}: 1133.2/29$

Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$

Right Out: -2.203 ± 0.925 $\chi^2/\text{NDF}: 1185.7/33$

Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$

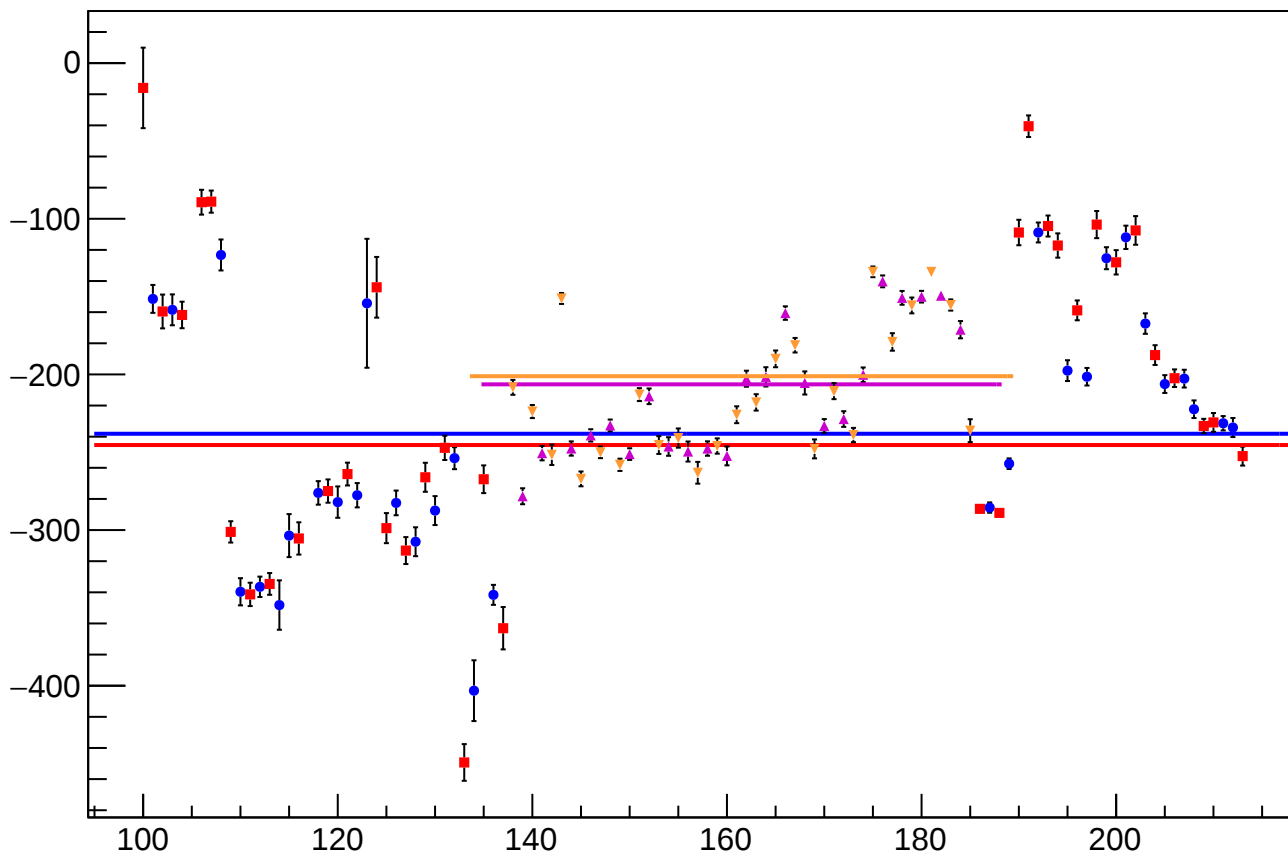
Right: 0.356 ± 0.688 $\chi^2/\text{NDF}: 2336.0/63$

In: 5.303 ± 0.596 $\chi^2/\text{NDF}: 1545.2/52$

Out: 2.687 ± 0.552 $\chi^2/\text{NDF}: 1755.6/58$

All: 3.894 ± 0.405 $\chi^2/\text{NDF}: 3311.2/111$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -238.121 ± 1.204 χ^2/NDF : 2703.5/29

Left Out: -201.144 ± 0.918 χ^2/NDF : 2488.8/24

Right Out: -245.368 ± 0.992 χ^2/NDF : 5836.7/33

Left In: -206.379 ± 0.950 χ^2/NDF : 2111.6/22

Left: -203.672 ± 0.660 χ^2/NDF : 4616.1/47

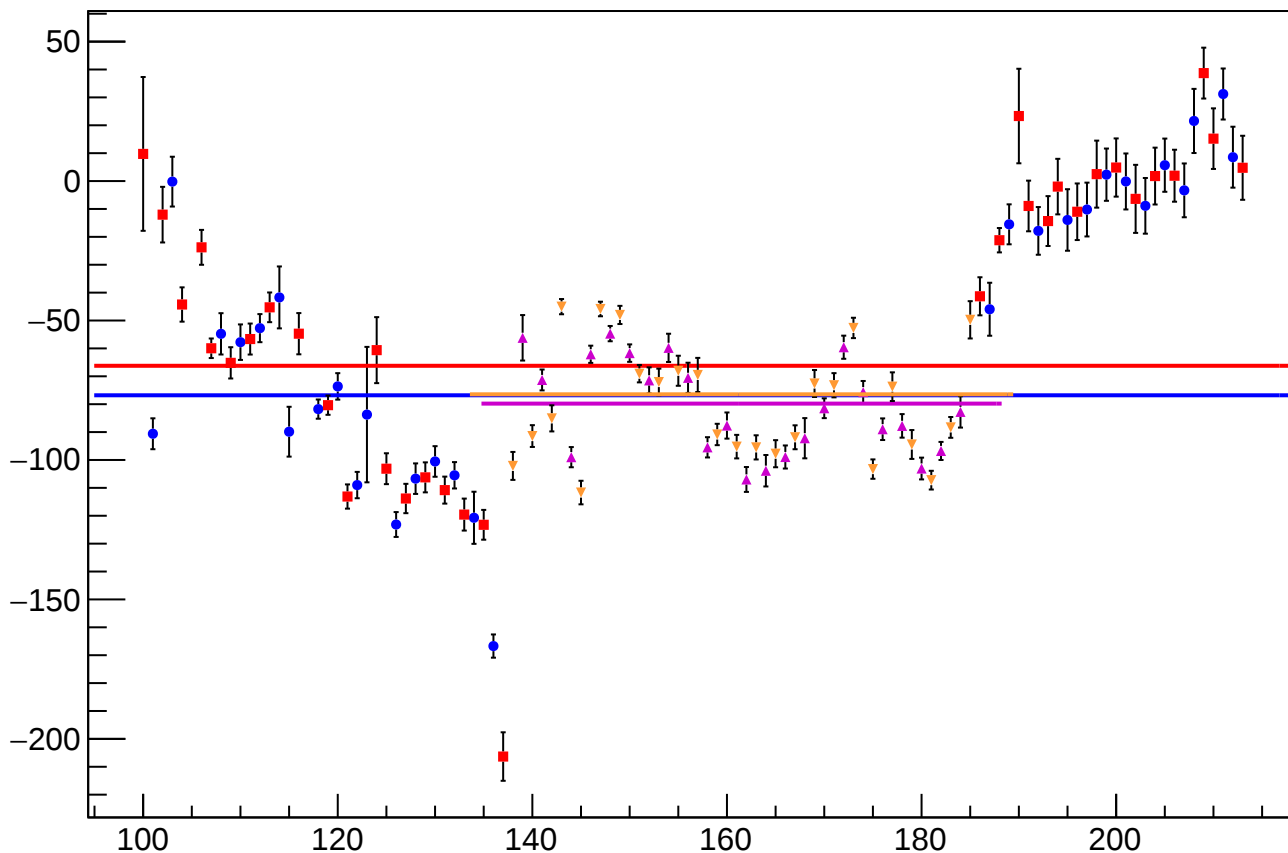
Right: -242.436 ± 0.766 χ^2/NDF : 8561.8/63

In: -218.552 ± 0.746 χ^2/NDF : 5243.6/52

Out: -221.531 ± 0.674 χ^2/NDF : 9395.7/58

All: -220.192 ± 0.500 χ^2/NDF : 14648.1/111

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -76.807 ± 1.197 $\chi^2/\text{NDF}: 1656.9/29$

Left Out: -76.460 ± 0.797 $\chi^2/\text{NDF}: 781.3/24$

Right Out: -66.230 ± 1.101 $\chi^2/\text{NDF}: 1700.4/33$

Left In: -79.792 ± 0.840 $\chi^2/\text{NDF}: 412.3/22$

Left: -78.038 ± 0.578 $\chi^2/\text{NDF}: 1201.9/47$

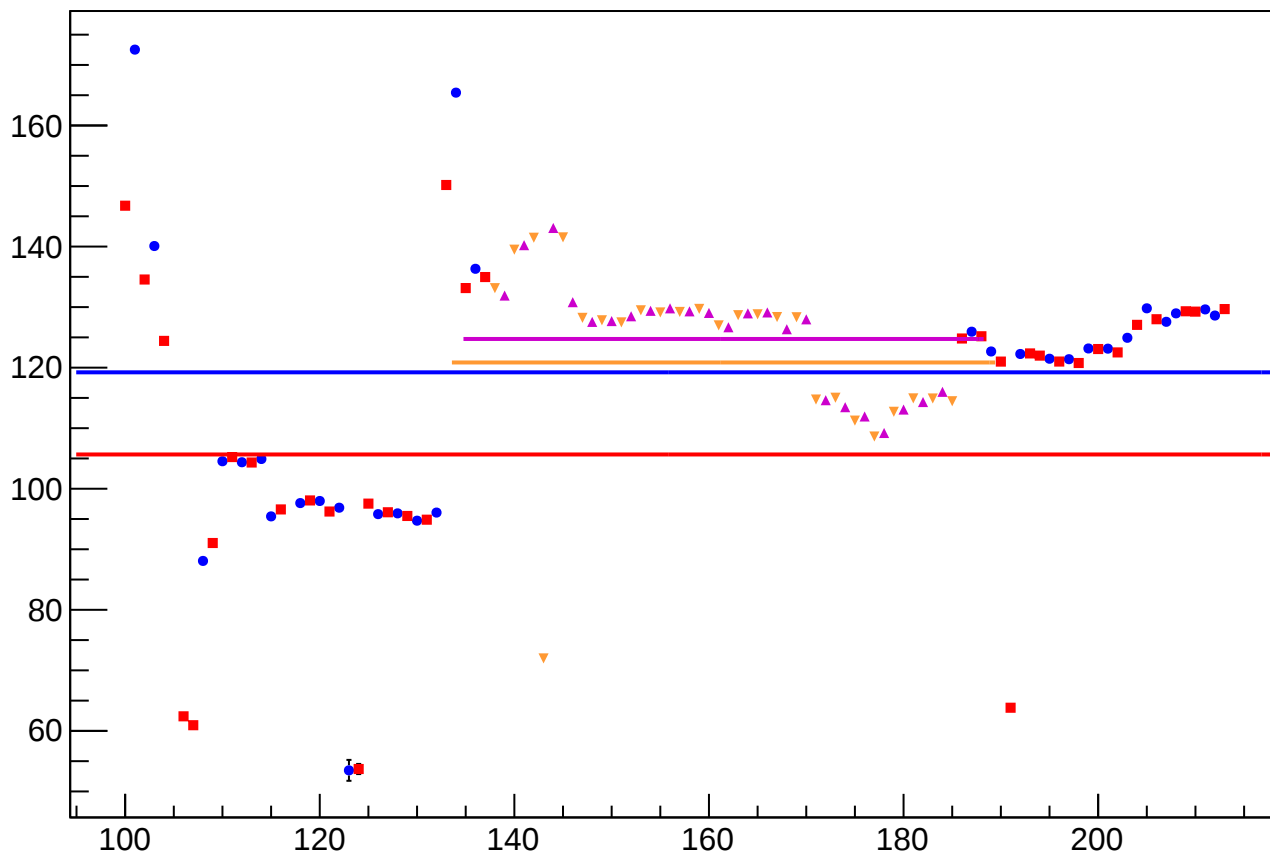
Right: -71.078 ± 0.810 $\chi^2/\text{NDF}: 3399.6/63$

In: -78.807 ± 0.687 $\chi^2/\text{NDF}: 2073.3/52$

Out: -72.944 ± 0.645 $\chi^2/\text{NDF}: 2538.4/58$

All: -75.691 ± 0.471 $\chi^2/\text{NDF}: 4650.4/111$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.227 $\pm$ 0.061 χ^2 /NDF: 110902.3/29

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF: 182759.1/24

Right Out: 105.660 $\pm$ 0.054 χ^2 /NDF: 250047.7/33

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

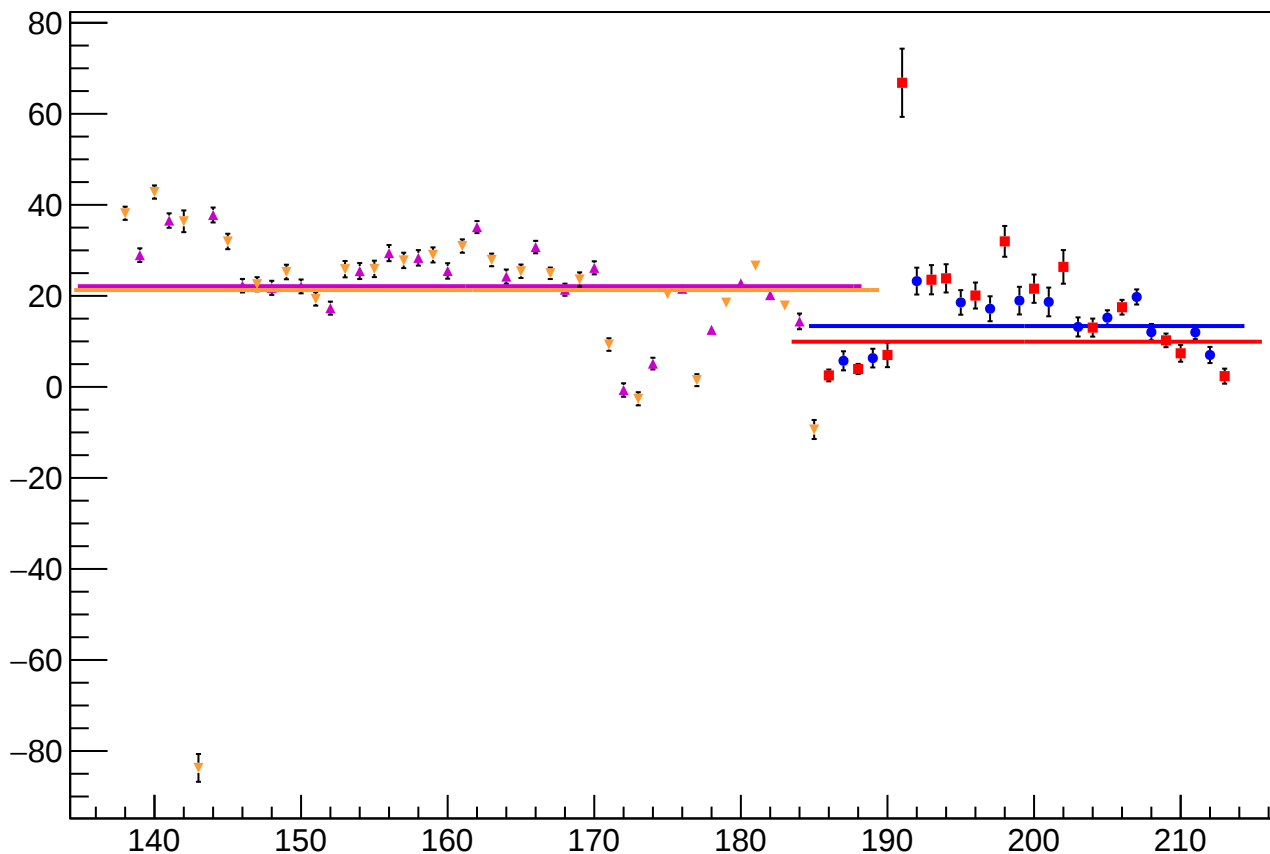
Right: 111.578 $\pm$ 0.041 χ^2 /NDF: 388432.5/63

In: 123.141 $\pm$ 0.033 χ^2 /NDF: 167912.2/52

Out: 115.819 $\pm$ 0.031 χ^2 /NDF: 485644.7/58

All: 119.257 $\pm$ 0.023 χ^2 /NDF: 679550.4/111

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.370 $\pm$ 0.569 χ^2 /NDF: 78.4/12

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 9.929 $\pm$ 0.507 χ^2 /NDF: 294.7/14

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

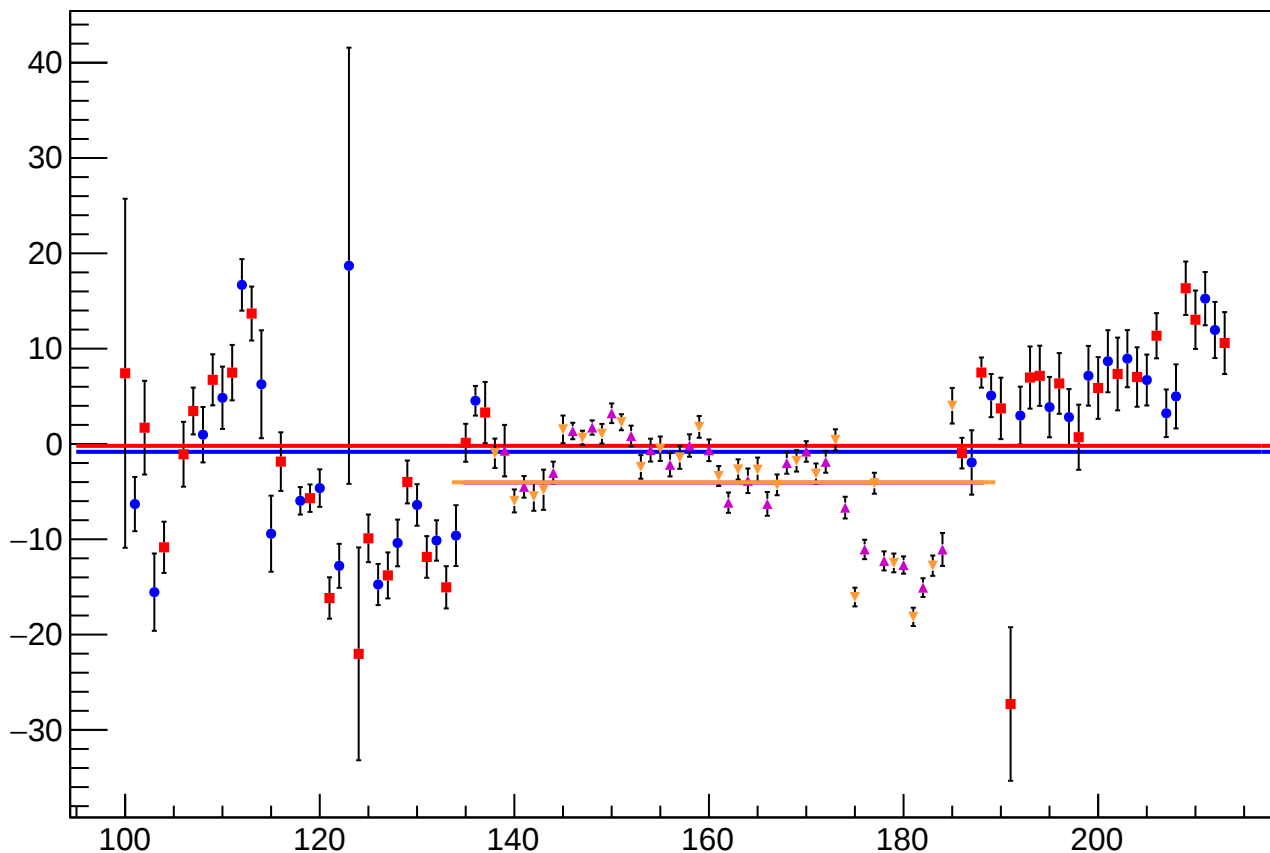
Right: 11.452 $\pm$ 0.379 χ^2 /NDF: 393.5/27

In: 20.365 $\pm$ 0.255 χ^2 /NDF:1167.9/35

Out: 18.594 $\pm$ 0.247 χ^2 /NDF:3277.8/39

All: 19.449 $\pm$ 0.177 χ^2 /NDF: 4470.6/75

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.826 ± 0.475 $\chi^2/\text{NDF}: 317.9/29$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: -0.199 ± 0.449 $\chi^2/\text{NDF}: 405.1/33$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

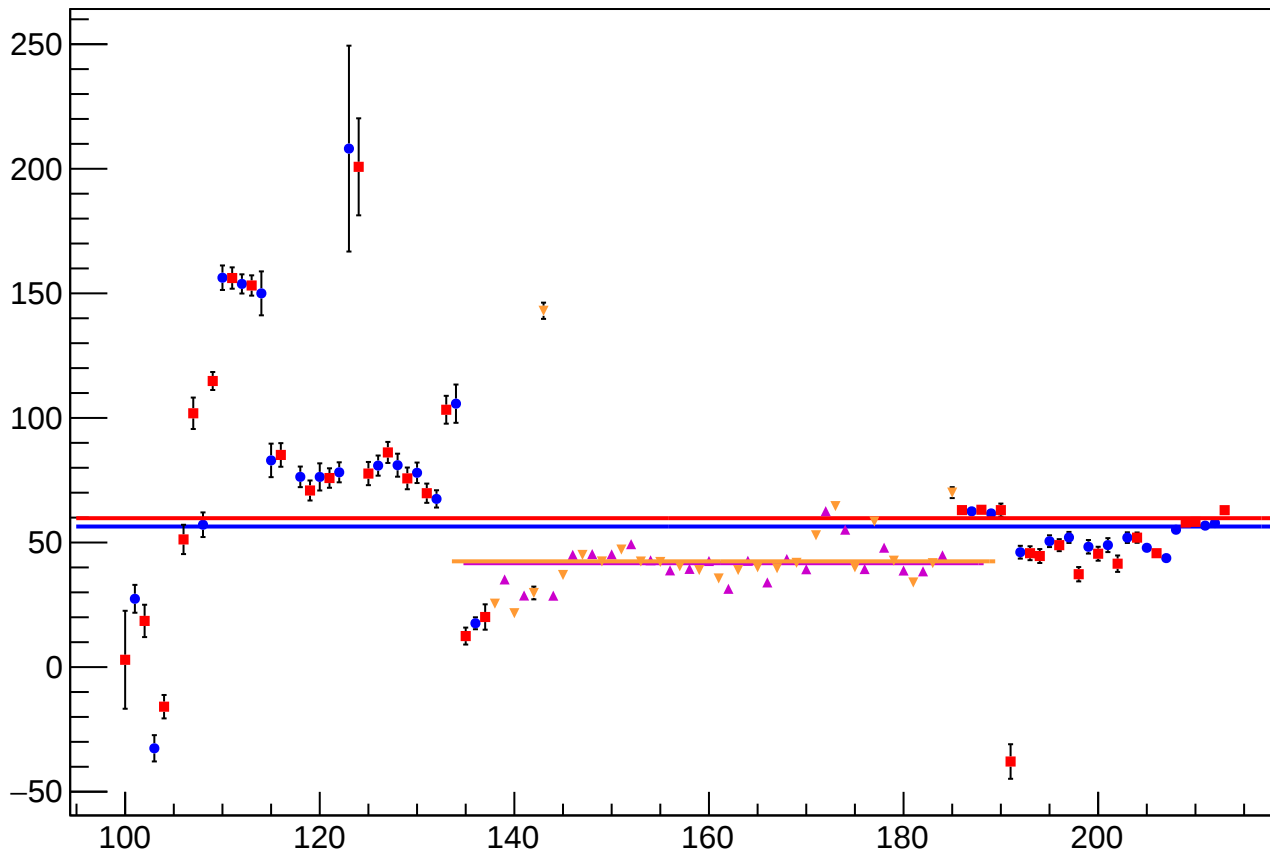
Right: -0.494 ± 0.326 $\chi^2/\text{NDF}: 723.9/63$

In: -3.453 ± 0.206 $\chi^2/\text{NDF}: 932.8/52$

Out: -3.263 ± 0.200 $\chi^2/\text{NDF}: 1197.4/58$

All: -3.356 ± 0.143 $\chi^2/\text{NDF}: 2130.6/111$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.422 $\pm$ 0.480 χ^2 /NDF: 2135.1/29

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF: 2016.0/24

Right Out: 59.767 $\pm$ 0.420 χ^2 /NDF: 2632.8/33

Left In: 41.695 $\pm$ 0.284 χ^2 /NDF: 630.2/22

Left: 42.077 $\pm$ 0.200 χ^2 /NDF: 2649.8/47

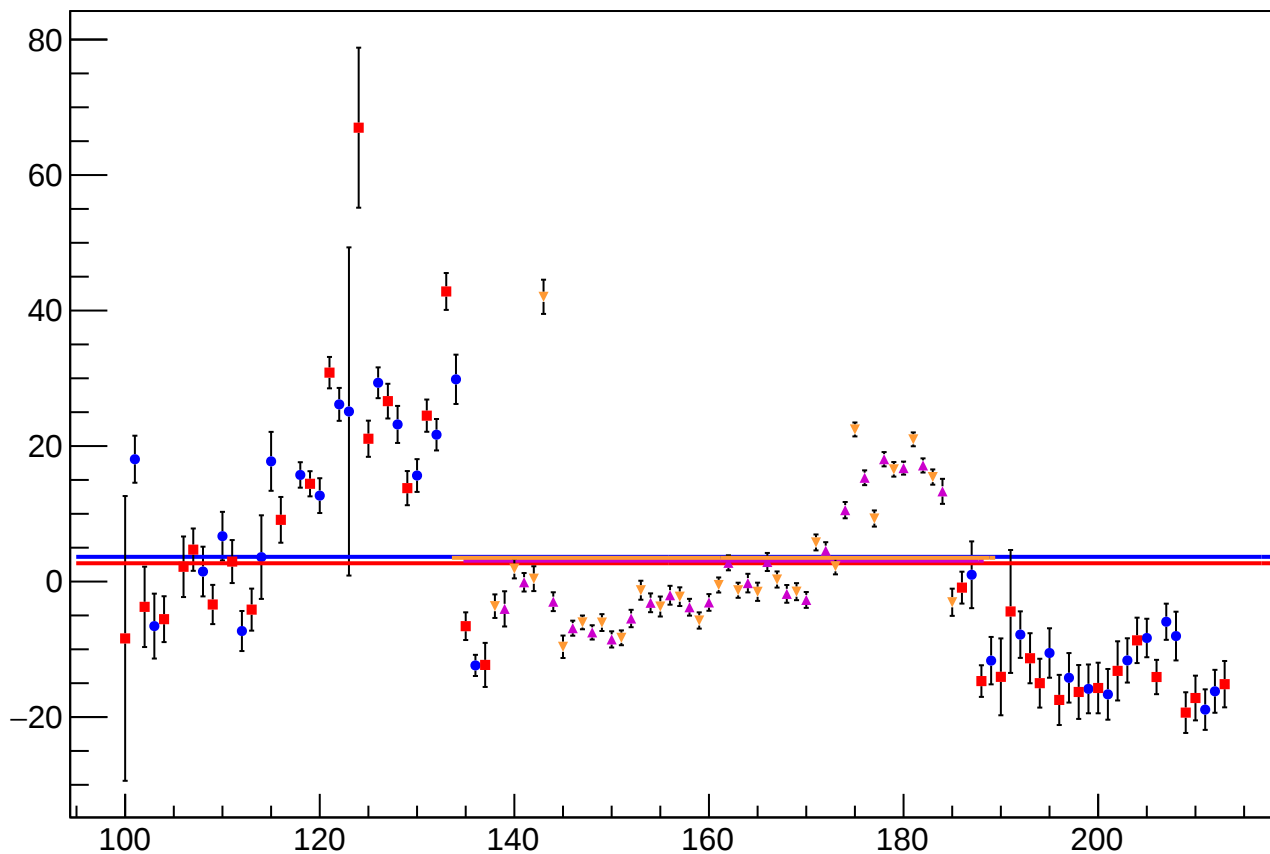
Right: 58.316 $\pm$ 0.316 χ^2 /NDF: 4795.4/63

In: 45.512 $\pm$ 0.245 χ^2 /NDF: 3461.6/52

Out: 47.825 $\pm$ 0.234 χ^2 /NDF: 5819.1/58

All: 46.718 $\pm$ 0.169 χ^2 /NDF: 9327.4/111

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 3.649 $\pm$ 0.542 χ^2 /NDF: 895.9/29

Left Out: 3.505 $\pm$ 0.252 χ^2 /NDF:1691.3/24

Right Out: 2.701 $\pm$ 0.526 χ^2 /NDF: 1103.2/33

Left In: 3.081 $\pm$ 0.257 χ^2 /NDF:1265.7/22

Left: 3.297 $\pm$ 0.180 χ^2 /NDF: 2958.4/47

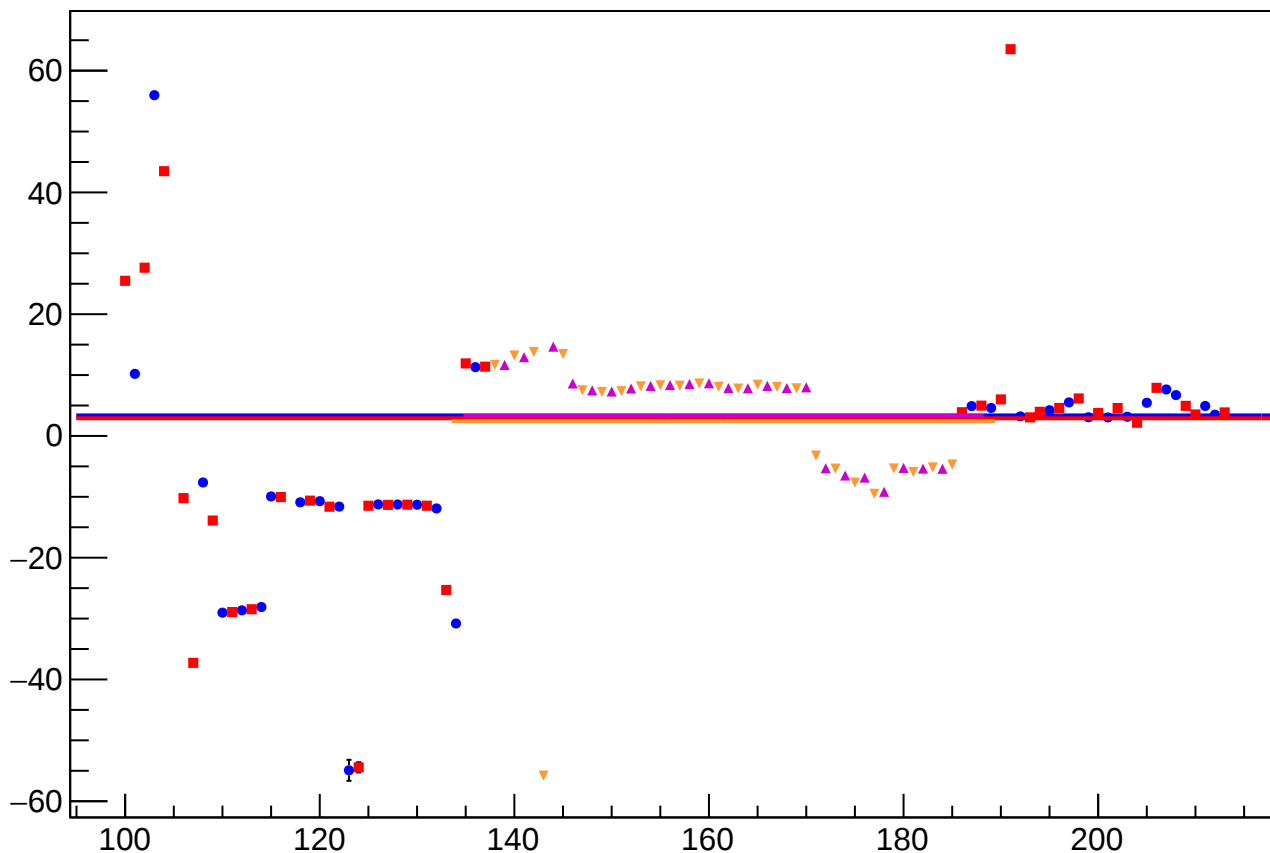
Right: 3.161 $\pm$ 0.378 χ^2 /NDF: 2000.7/63

In: 3.186 $\pm$ 0.232 χ^2 /NDF:2162.5/52

Out: 3.355 $\pm$ 0.228 χ^2 /NDF:2796.4/58

All: 3.272 $\pm$ 0.163 χ^2 /NDF: 4959.2/111

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.367 ± 0.025 $\chi^2/\text{NDF}: 362398.1/29$

Left Out: 2.425 ± 0.012 $\chi^2/\text{NDF}: 616382.5/24$

Right Out: 2.899 ± 0.025 $\chi^2/\text{NDF}: 434531.1/33$

Left In: 3.293 ± 0.012 $\chi^2/\text{NDF}: 404323.8/22$

Left: 2.855 ± 0.008 $\chi^2/\text{NDF}: 1023497.1/47$

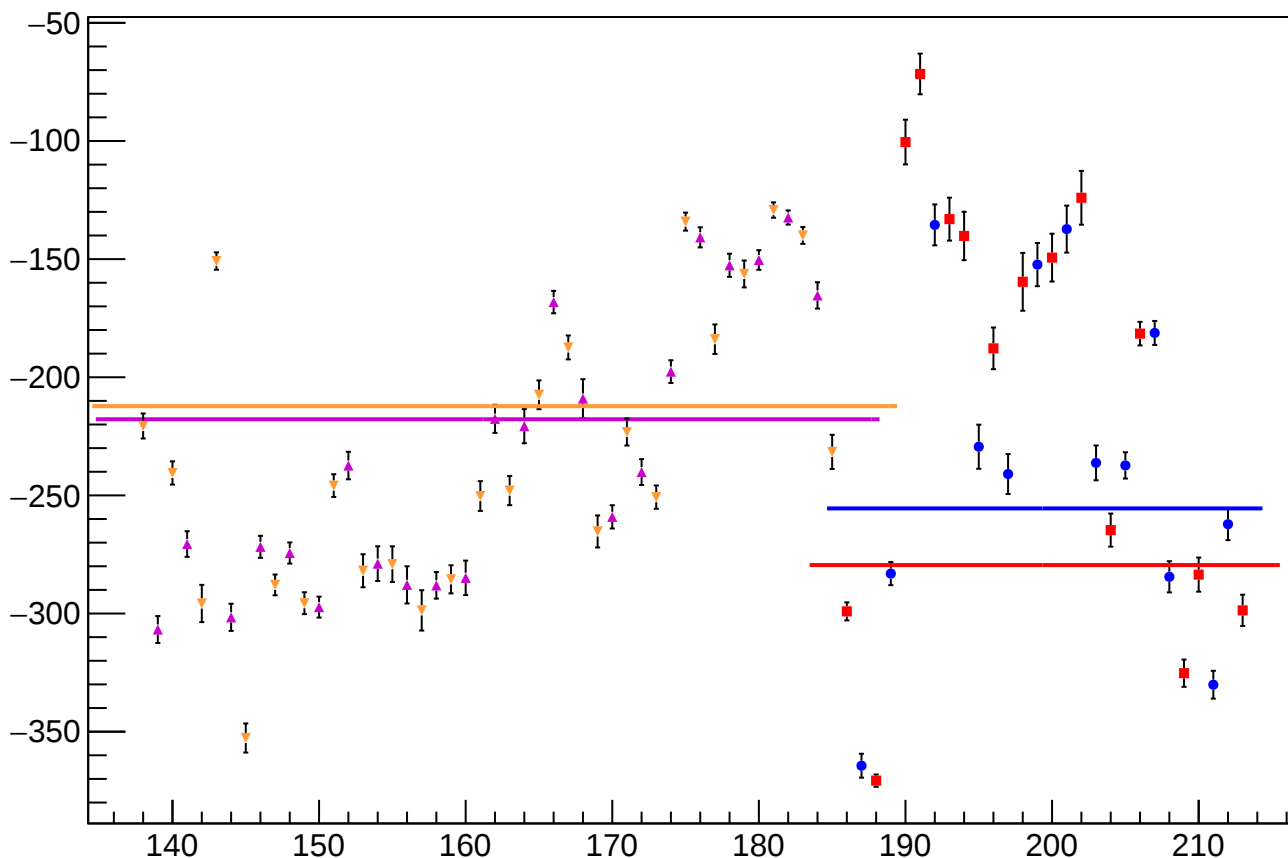
Right: 3.128 ± 0.018 $\chi^2/\text{NDF}: 797104.2/63$

In: 3.306 ± 0.011 $\chi^2/\text{NDF}: 766729.0/52$

Out: 2.510 ± 0.010 $\chi^2/\text{NDF}: 1051214.0/58$

All: 2.904 ± 0.007 $\chi^2/\text{NDF}: 1820796.6/111$

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -255.516 ± 1.811 χ^2/NDF : 1378.5/12

Left Out: -212.231 ± 1.029 χ^2/NDF : 3875.4/24

Right Out: -279.490 ± 1.522 χ^2/NDF : 3652.1/14

Left In: -217.779 ± 1.067 χ^2/NDF : 3448.9/22

Left: -214.906 ± 0.741 χ^2/NDF : 7338.3/47

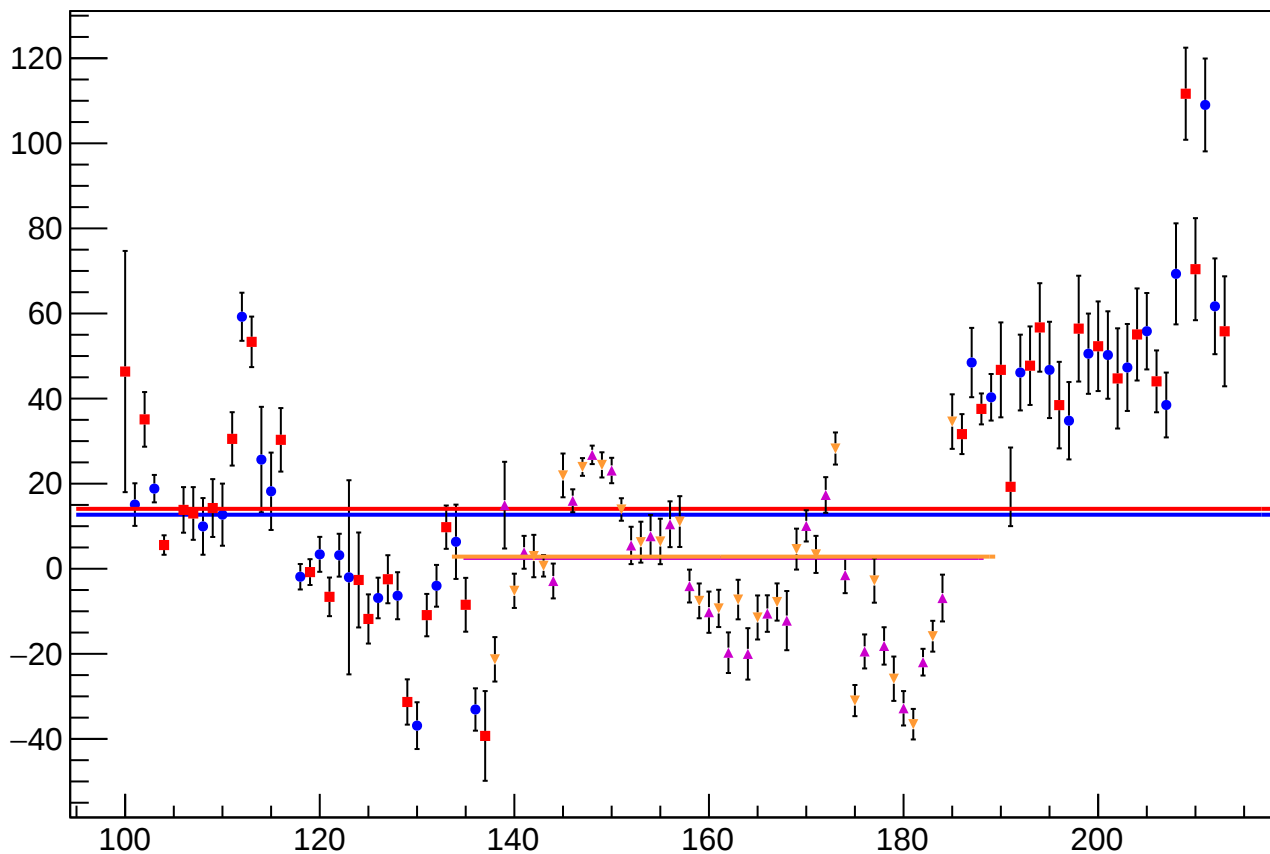
Right: -269.564 ± 1.165 χ^2/NDF : 5133.3/27

In: -227.499 ± 0.919 χ^2/NDF : 5149.8/35

Out: -233.336 ± 0.853 χ^2/NDF : 8867.0/39

All: -230.636 ± 0.625 χ^2/NDF : 14038.4/75

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.698 $\pm$ 1.112 χ^2 /NDF: 581.6/29

Left Out: 2.848 $\pm$ 0.775 χ^2 /NDF:582.1/24

Right Out: 14.081 $\pm$ 1.006 χ^2 /NDF: 570.8/33

Left In: 2.540 $\pm$ 0.822 χ^2 /NDF:473.6/22

Left: 2.703 $\pm$ 0.564 χ^2 /NDF: 1055.8/47

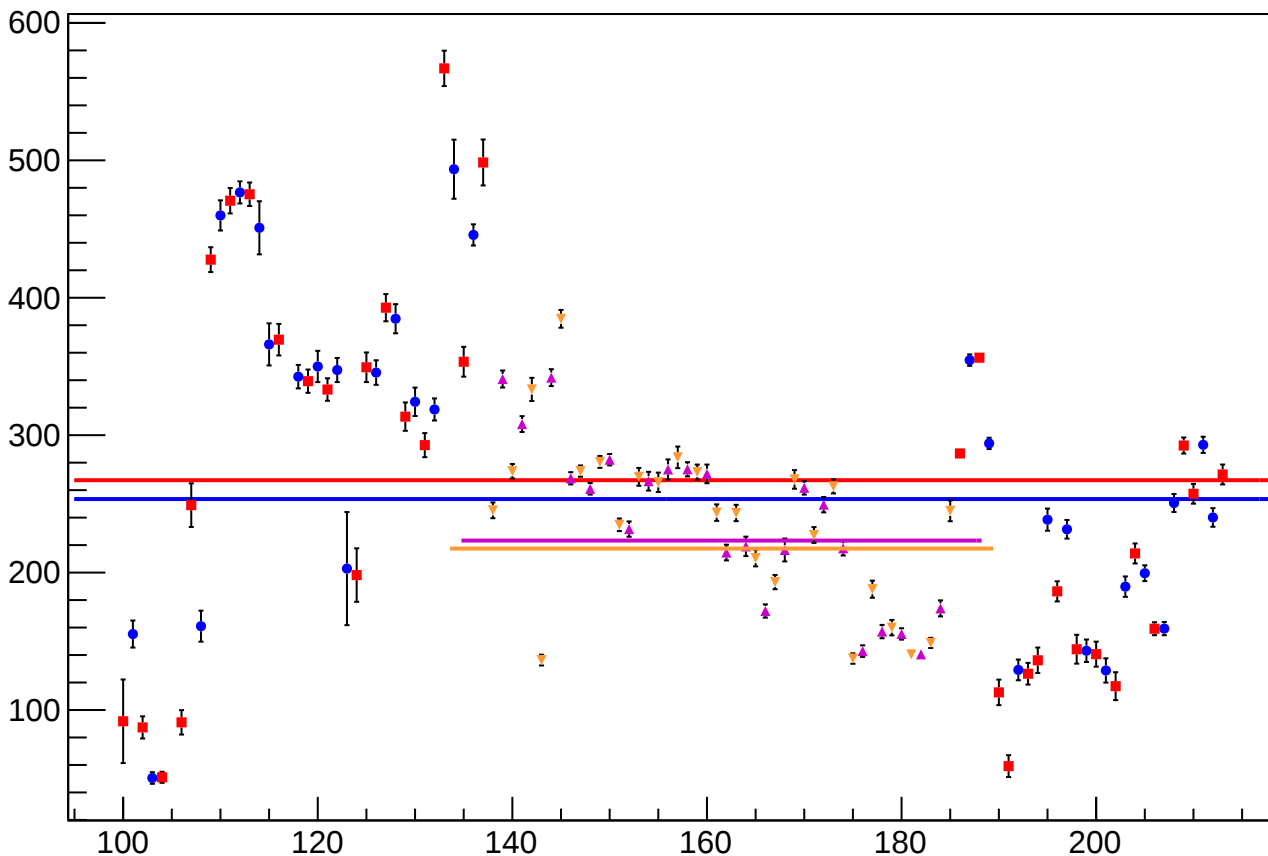
Right: 13.459 $\pm$ 0.746 χ^2 /NDF: 1153.3/63

In: 6.132 $\pm$ 0.661 χ^2 /NDF:1109.2/52

Out: 7.029 $\pm$ 0.614 χ^2 /NDF:1231.2/58

All: 6.614 $\pm$ 0.450 χ^2 /NDF: 2341.4/111

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 253.513 ± 1.325 $\chi^2/\text{NDF}: 7117.8/29$

Left Out: 217.484 ± 1.032 $\chi^2/\text{NDF}: 3769.5/24$

Right Out: 267.219 ± 1.117 $\chi^2/\text{NDF}: 11052.1/33$

Left In: 223.309 ± 1.062 $\chi^2/\text{NDF}: 3378.0/22$

Left: 220.314 ± 0.740 $\chi^2/\text{NDF}: 7163.0/47$

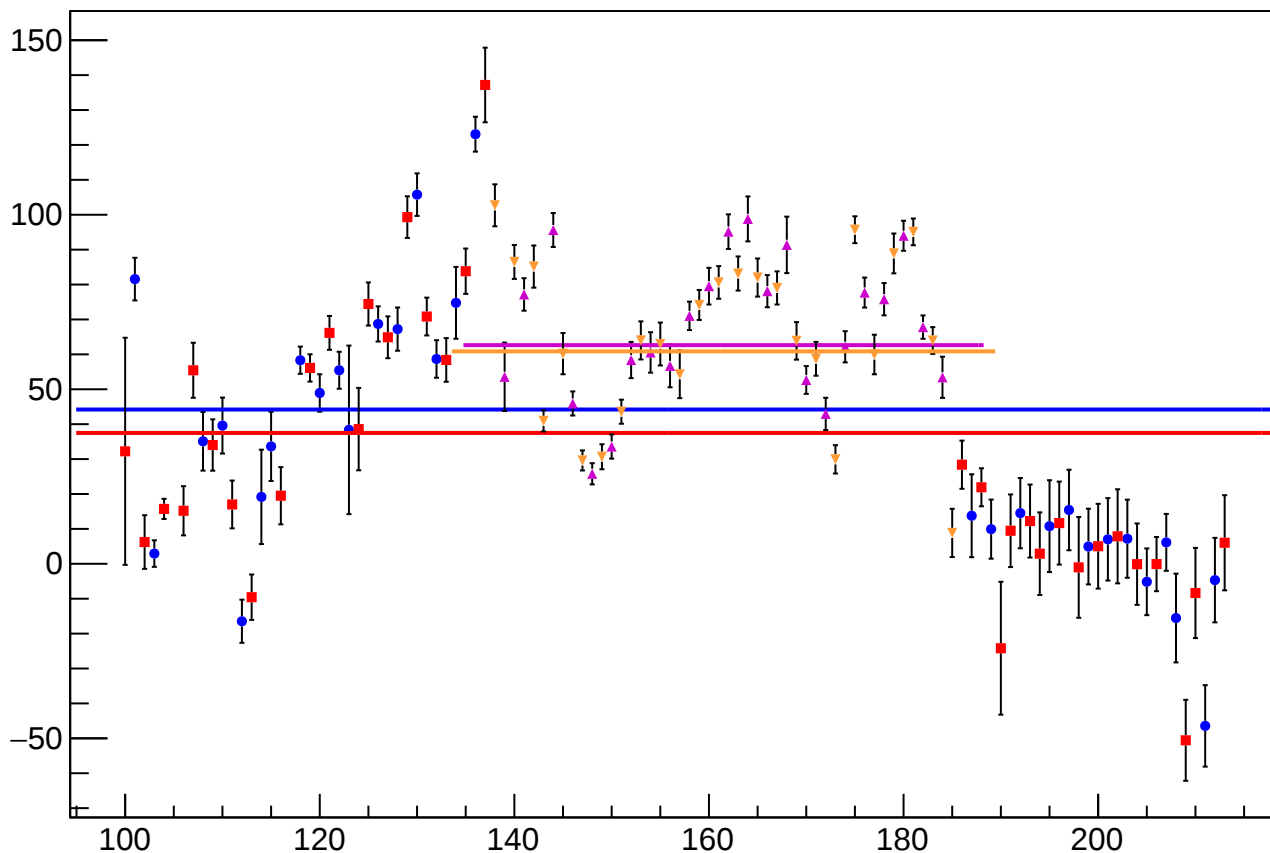
Right: 261.522 ± 0.854 $\chi^2/\text{NDF}: 18232.5/63$

In: 235.125 ± 0.829 $\chi^2/\text{NDF}: 10812.3/52$

Out: 240.391 ± 0.758 $\chi^2/\text{NDF}: 15890.6/58$

All: 237.991 ± 0.559 $\chi^2/\text{NDF}: 26724.9/111$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 44.201 $\pm$ 1.295 χ^2 /NDF: 906.0/29

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 37.490 $\pm$ 1.203 χ^2 /NDF: 738.7/33

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

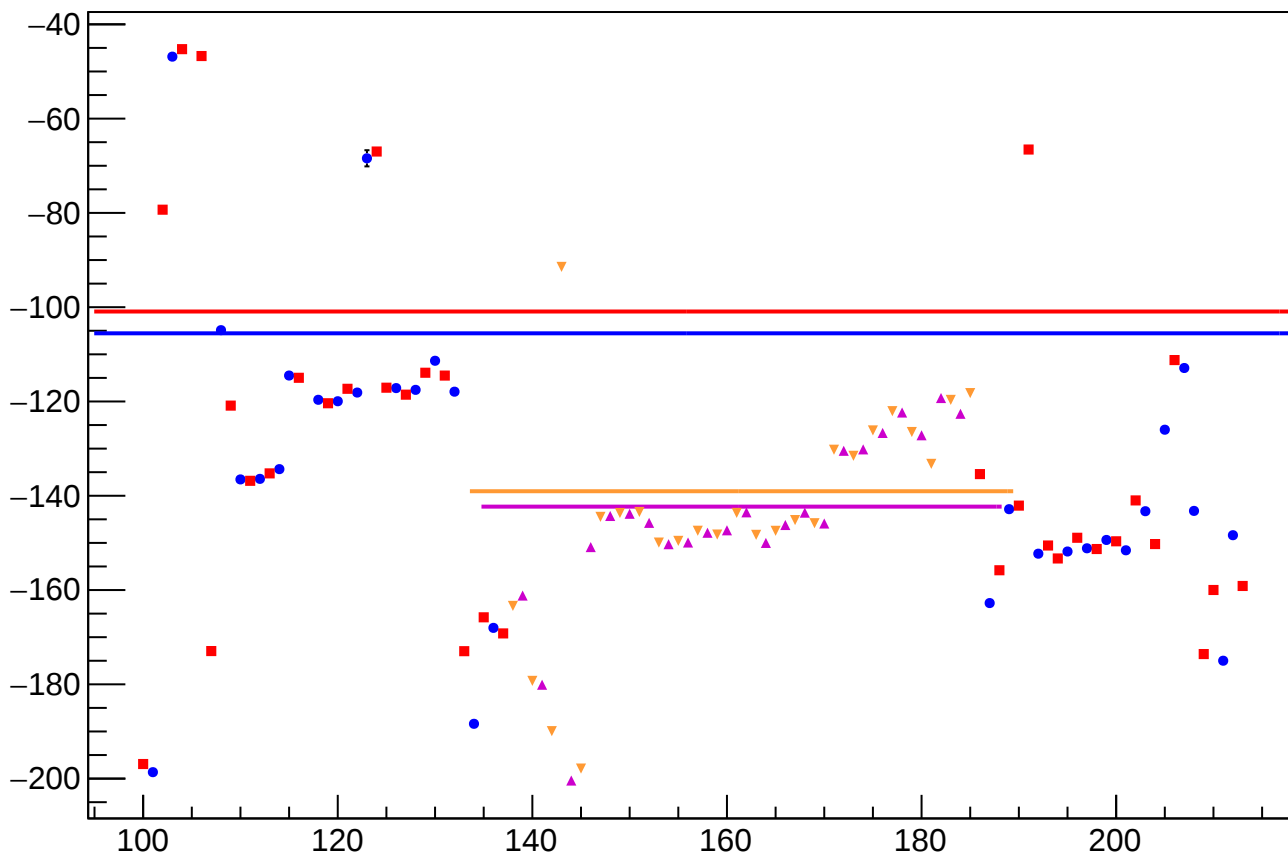
Right: 40.597 $\pm$ 0.881 χ^2 /NDF: 1659.2/63

In: 56.256 $\pm$ 0.762 χ^2 /NDF: 1553.9/52

Out: 52.513 $\pm$ 0.719 χ^2 /NDF: 1713.1/58

All: 54.275 $\pm$ 0.523 χ^2 /NDF: 3279.8/111

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -105.541 ± 0.058 $\chi^2/\text{NDF}: 722128.4/29$

Left Out: -139.040 ± 0.043 $\chi^2/\text{NDF}: 258113.4/24$

Right Out: -100.915 ± 0.054 $\chi^2/\text{NDF}: 764581.0/33$

Left In: -142.305 ± 0.044 $\chi^2/\text{NDF}: 143351.8/22$

Left: -140.627 ± 0.031 $\chi^2/\text{NDF}: 404285.9/47$

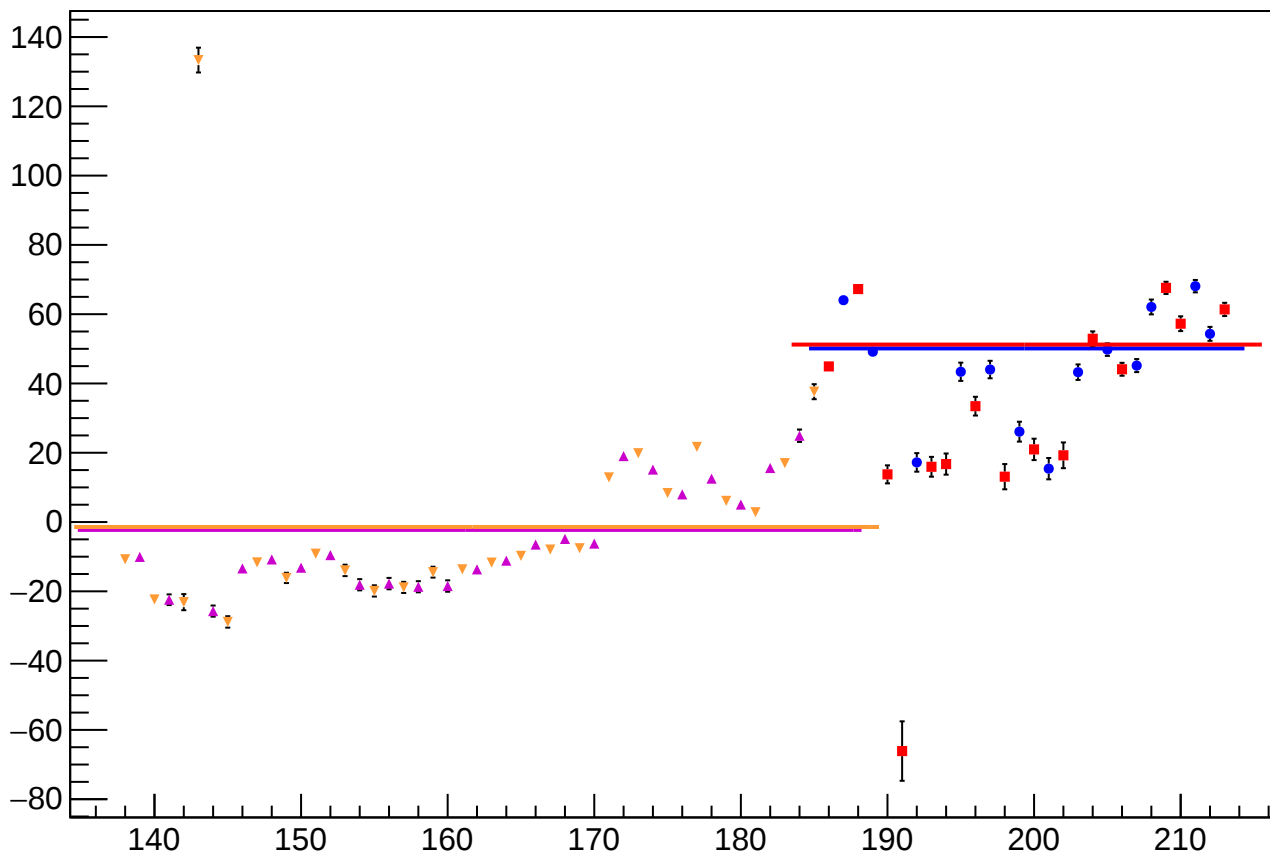
Right: -103.094 ± 0.040 $\chi^2/\text{NDF}: 1490108.8/63$

In: -128.759 ± 0.035 $\chi^2/\text{NDF}: 1121803.0/52$

Out: -124.453 ± 0.034 $\chi^2/\text{NDF}: 1325296.9/58$

All: -126.522 ± 0.024 $\chi^2/\text{NDF}: 2454951.5/111$

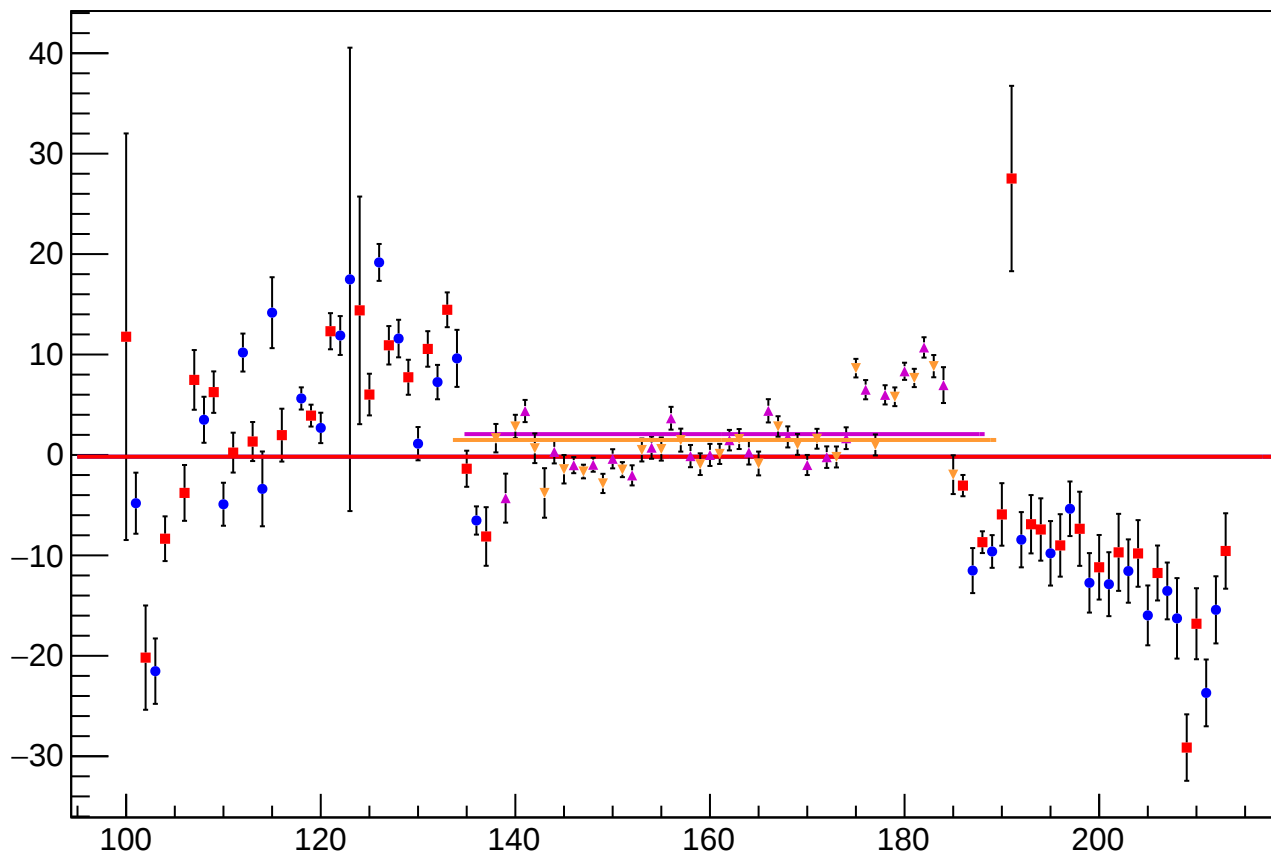
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 50.115 ± 0.558 $\chi^2/\text{NDF}: 613.0/12$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 51.229 ± 0.443 $\chi^2/\text{NDF}: 1615.1/14$
 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: 50.799 ± 0.347 $\chi^2/\text{NDF}: 2230.5/27$
 In: 7.721 ± 0.244 $\chi^2/\text{NDF}: 10274.8/35$
 Out: 12.673 ± 0.229 $\chi^2/\text{NDF}: 16319.9/39$
 All: 10.349 ± 0.167 $\chi^2/\text{NDF}: 26814.1/75$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.172 ± 0.401 χ^2/NDF : 638.1/29

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: -0.175 ± 0.369 χ^2/NDF : 544.3/33

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

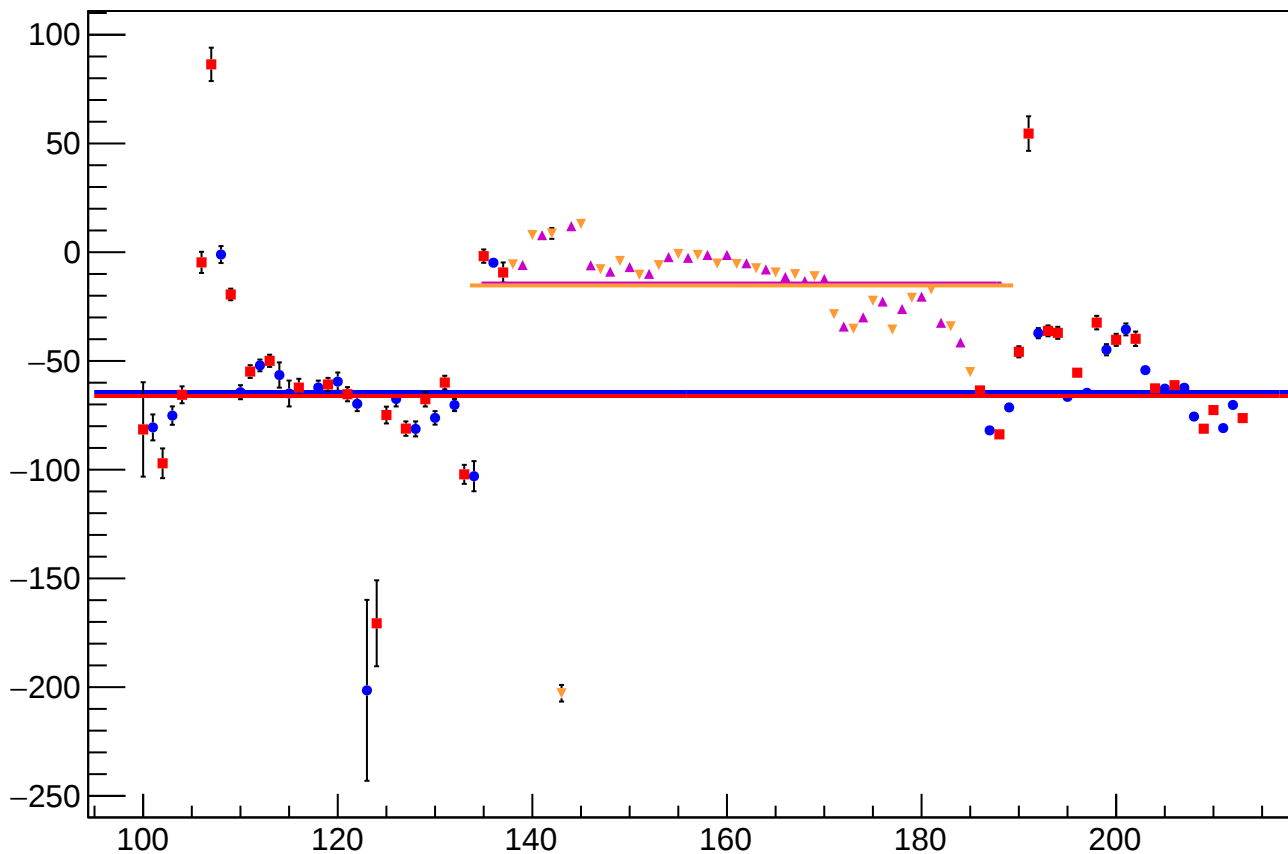
Right: -0.174 ± 0.272 χ^2/NDF : 1182.3/63

In: 1.572 ± 0.190 χ^2/NDF : 937.0/52

Out: 1.082 ± 0.183 χ^2/NDF : 818.7/58

All: 1.318 ± 0.132 χ^2/NDF : 1759.2/111

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.279+/-0.437 χ^2/NDF : 1863.7/29

Left Out: -15.279+/-0.267 χ^2/NDF : 4820.1/24

Right Out: -66.112+/-0.347 χ^2/NDF : 3420.5/33

Left In: -14.406+/-0.269 χ^2/NDF : 2032.4/22

Left: -14.846+/-0.189 χ^2/NDF : 6857.8/47

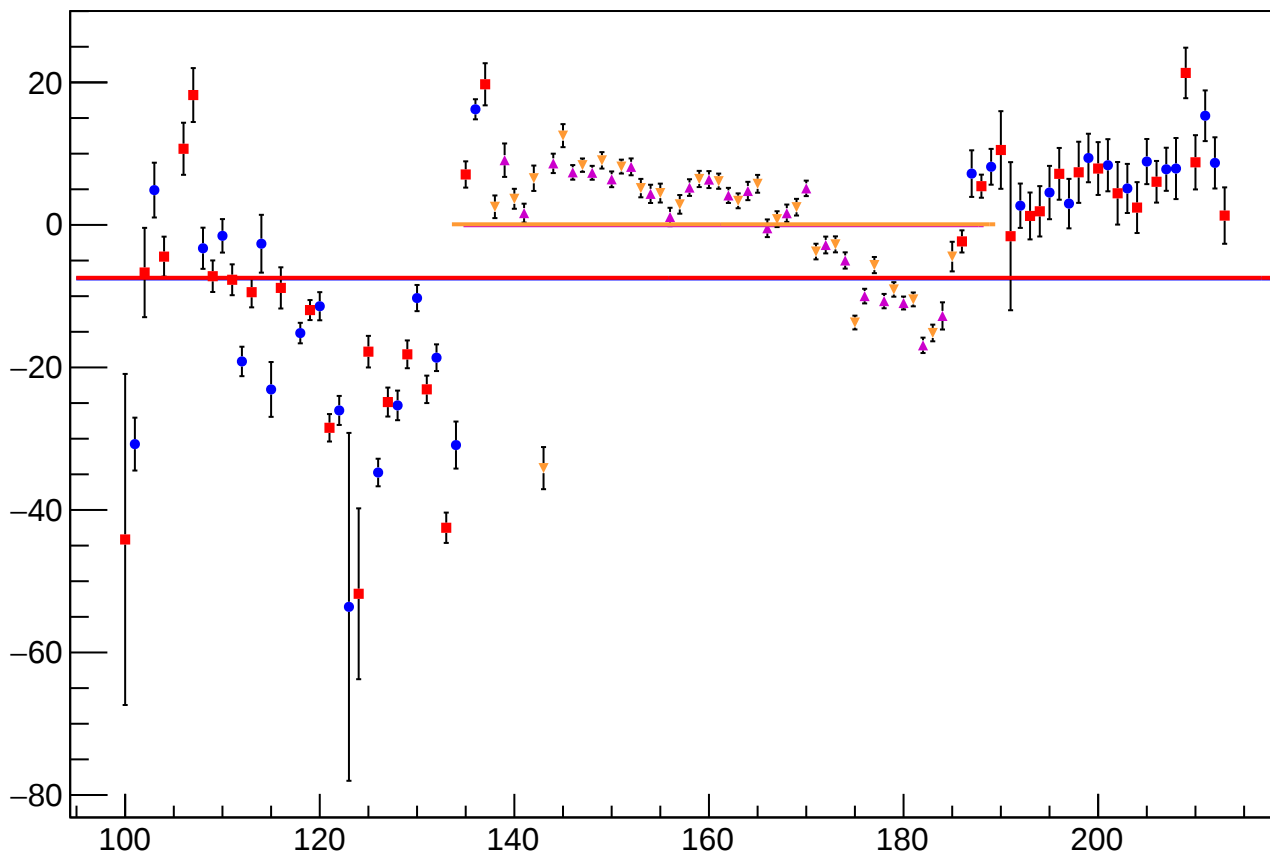
Right: -65.403+/-0.272 χ^2/NDF : 5295.0/63

In: -28.102+/-0.229 χ^2/NDF : 13328.3/52

Out: -34.142+/-0.212 χ^2/NDF : 21712.3/58

All: -31.363+/-0.155 χ^2/NDF : 35415.5/111

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -7.515 ± 0.465 $\chi^2/\text{NDF}: 1142.4/29$

Left Out: 0.087 ± 0.238 $\chi^2/\text{NDF}: 1172.3/24$

Right Out: -7.421 ± 0.442 $\chi^2/\text{NDF}: 1097.3/33$

Left In: -0.044 ± 0.243 $\chi^2/\text{NDF}: 1028.2/22$

Left: 0.023 ± 0.170 $\chi^2/\text{NDF}: 2200.6/47$

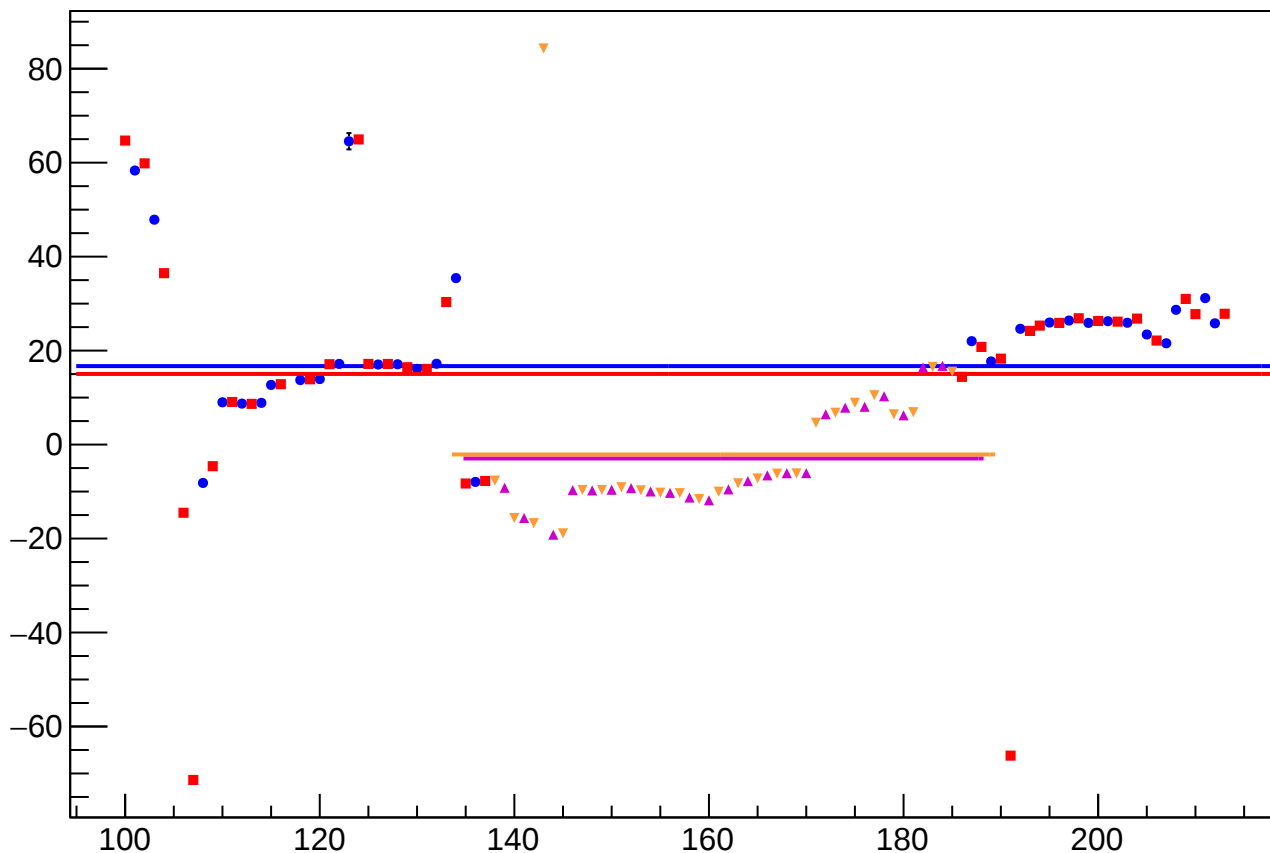
Right: -7.465 ± 0.320 $\chi^2/\text{NDF}: 2239.7/63$

In: -1.650 ± 0.215 $\chi^2/\text{NDF}: 2373.6/52$

Out: -1.604 ± 0.210 $\chi^2/\text{NDF}: 2493.3/58$

All: -1.626 ± 0.150 $\chi^2/\text{NDF}: 4866.9/111$

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 16.701 $\pm$ 0.023 χ^2 /NDF: 486136.0/29

Left Out: -2.105 $\pm$ 0.011 χ^2 /NDF: 1093120.2/24

Right Out: 15.034 $\pm$ 0.022 χ^2 /NDF: 767603.3/33

Left In: -2.959 $\pm$ 0.011 χ^2 /NDF: 763000.9/22

Left: -2.529 $\pm$ 0.008 χ^2 /NDF: 1859155.7/47

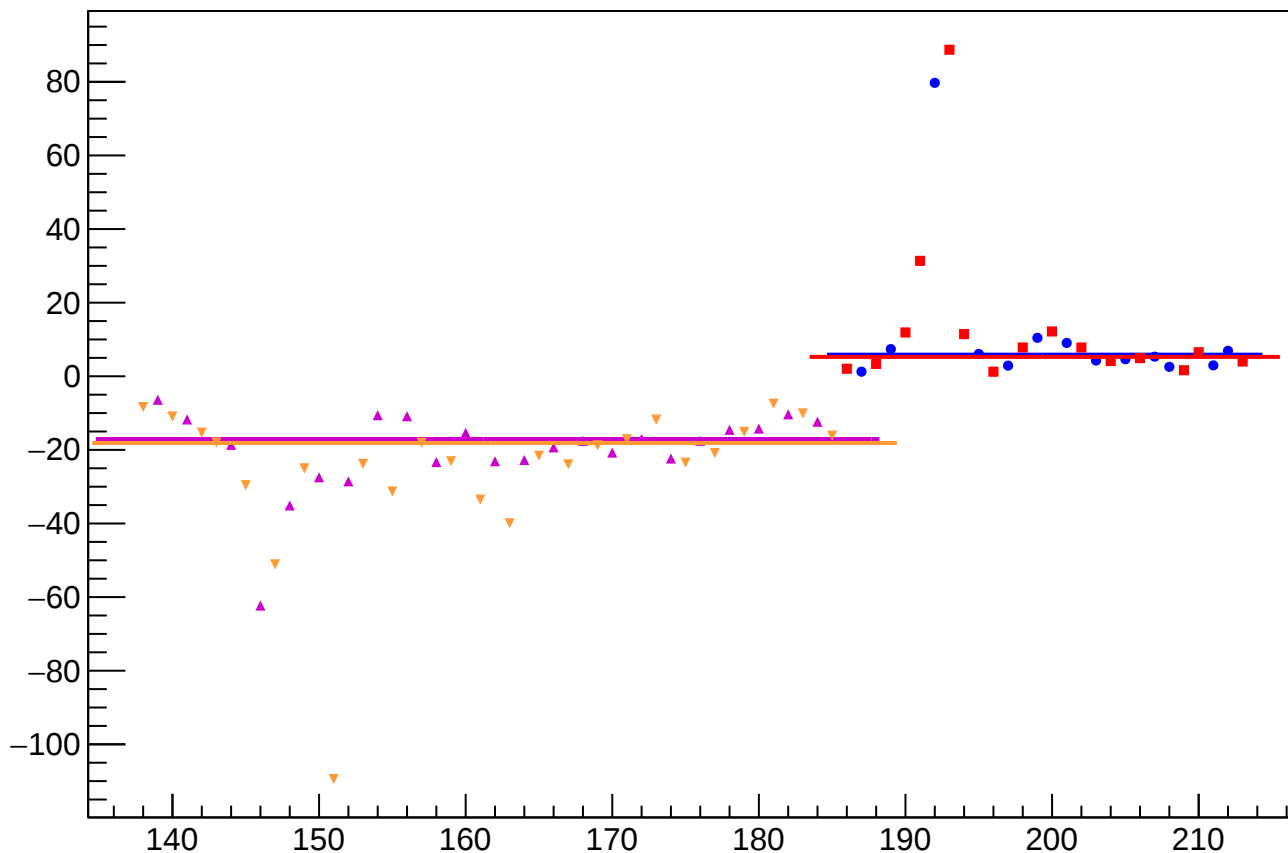
Right: 15.848 $\pm$ 0.016 χ^2 /NDF: 1256434.7/63

In: 0.707 $\pm$ 0.010 χ^2 /NDF: 1844728.9/52

Out: 1.177 $\pm$ 0.010 χ^2 /NDF: 2332276.5/58

All: 0.945 $\pm$ 0.007 χ^2 /NDF: 4178136.6/111

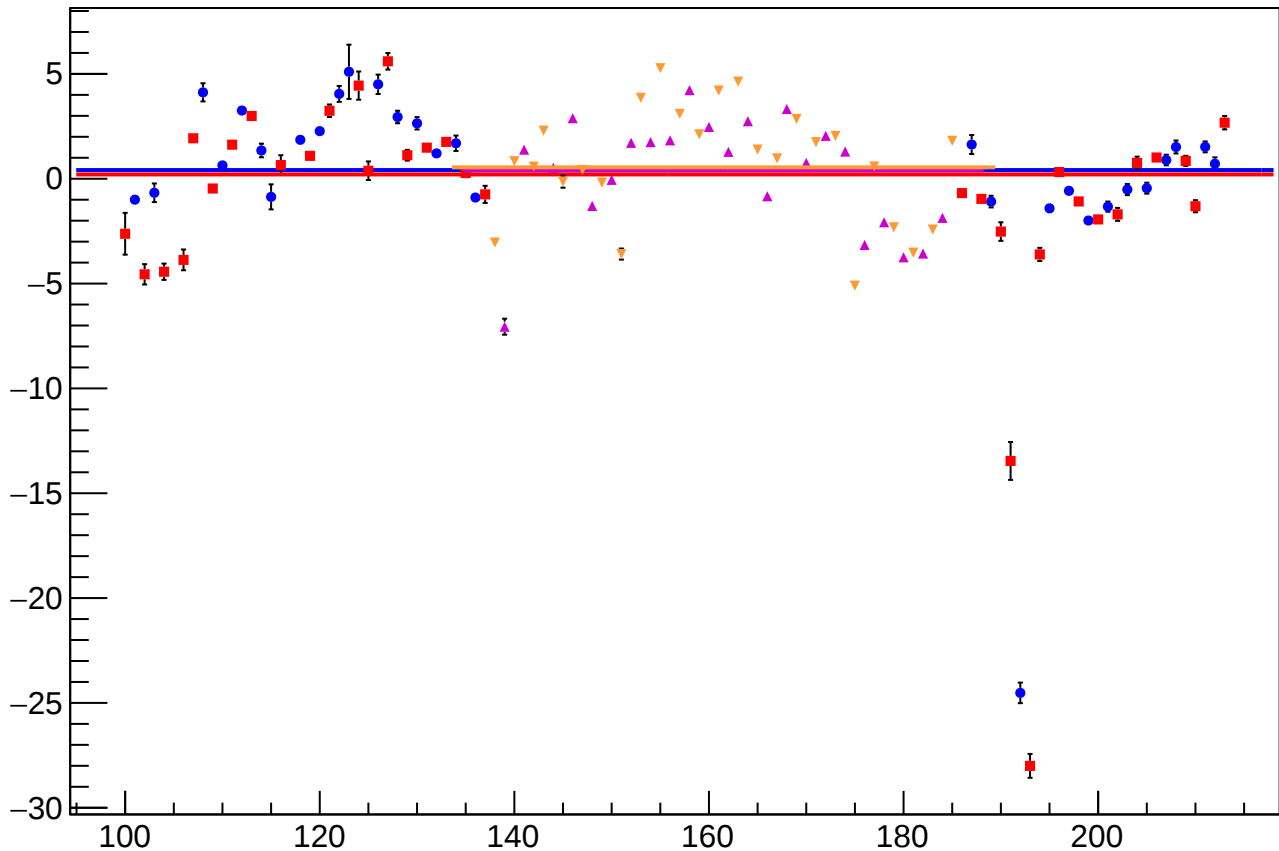
reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.871+/-0.053 χ^2/NDF : 26285.3/12
 Left Out: -18.128+/-0.039 χ^2/NDF :88551.6/24
 Right Out: 5.262+/-0.049 χ^2/NDF : 26884.2/14
 Left In: -17.038+/-0.038 χ^2/NDF :44141.1/22

Left: -17.572+/-0.027 χ^2/NDF : 133092.4/47
 Right: 5.548+/-0.036 χ^2/NDF : 53240.8/27
 In: -9.137+/-0.031 χ^2/NDF :194769.5/35
 Out: -9.180+/-0.031 χ^2/NDF :253650.3/39
 All: -9.159+/-0.022 χ^2/NDF : 448420.8/75

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.414 $\pm$ 0.047 χ^2 /NDF: 3860.4/29

Left Out: 0.543 $\pm$ 0.032 χ^2 /NDF:7085.3/24

Right Out: 0.205 $\pm$ 0.044 χ^2 /NDF: 4359.3/33

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

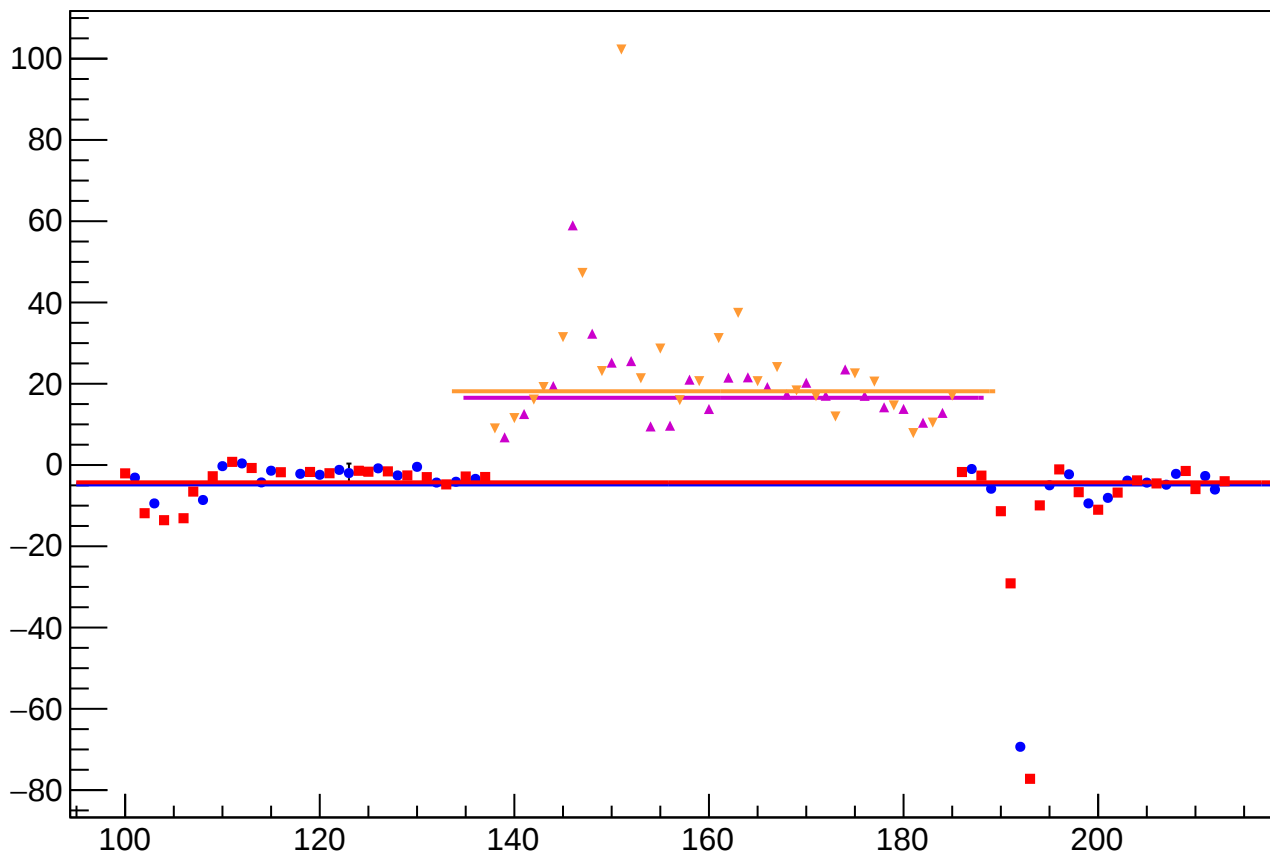
Right: 0.303 $\pm$ 0.032 χ^2 /NDF: 8230.2/63

In: 0.402 $\pm$ 0.026 χ^2 /NDF:10096.1/52

Out: 0.425 $\pm$ 0.026 χ^2 /NDF:11482.6/58

All: 0.413 $\pm$ 0.018 χ^2 /NDF: 21579.2/111

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.783+/-0.045 χ^2/NDF : 27241.3/29

Left Out: 18.150+/-0.039 χ^2/NDF : 77847.8/24

Right Out: -4.262+/-0.041 χ^2/NDF : 28233.6/33

Left In: 16.543+/-0.038 χ^2/NDF : 40855.0/22

Left: 17.318+/-0.027 χ^2/NDF : 119577.9/47

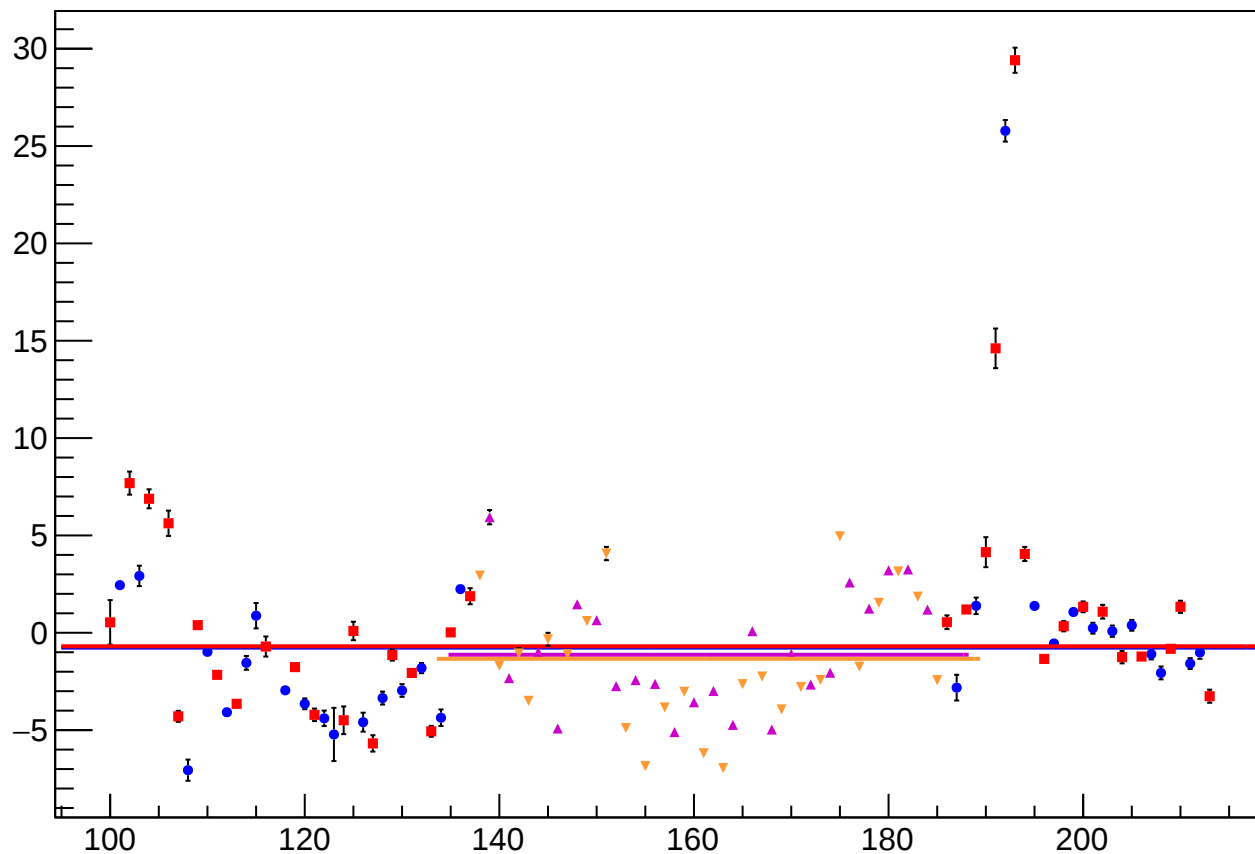
Right: -4.499+/-0.030 χ^2/NDF : 55548.3/63

In: 7.708+/-0.029 χ^2/NDF : 200247.7/52

Out: 7.453+/-0.028 χ^2/NDF : 262946.3/58

All: 7.578+/-0.020 χ^2/NDF : 463234.0/111

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.761 ± 0.054 χ^2/NDF : 3941.6/29

Left Out: -1.338 ± 0.036 χ^2/NDF : 7943.1/24

Right Out: -0.695 ± 0.051 χ^2/NDF : 4575.5/33

Left In: -1.129 ± 0.034 χ^2/NDF : 6740.3/22

Left: -1.228 ± 0.025 χ^2/NDF : 14701.0/47

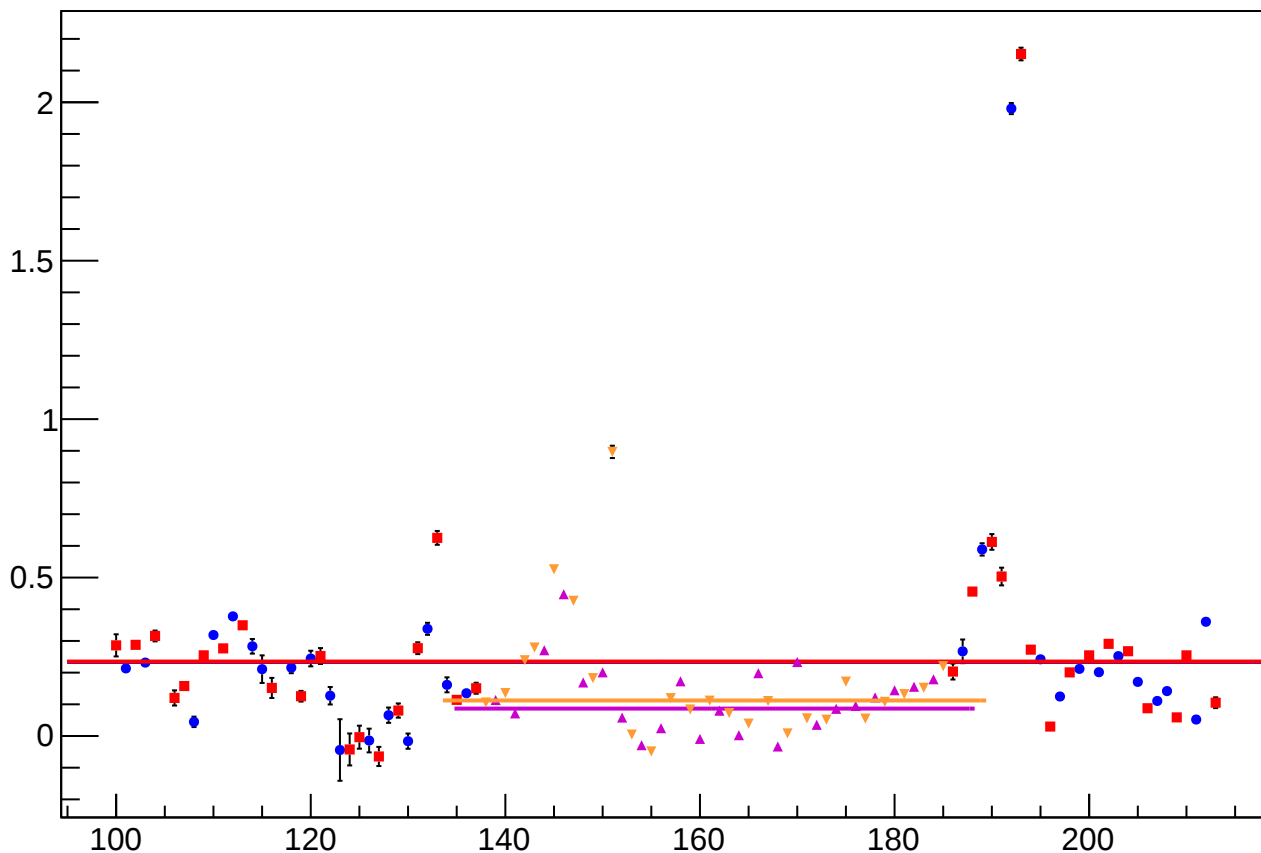
Right: -0.726 ± 0.037 χ^2/NDF : 8517.9/63

In: -1.024 ± 0.029 χ^2/NDF : 10715.2/52

Out: -1.125 ± 0.029 χ^2/NDF : 12624.5/58

All: -1.074 ± 0.021 χ^2/NDF : 23345.7/111

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.234 $\pm$ 0.002 χ^2 /NDF: 11698.1/29

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.235 $\pm$ 0.002 χ^2 /NDF: 12169.4/33

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

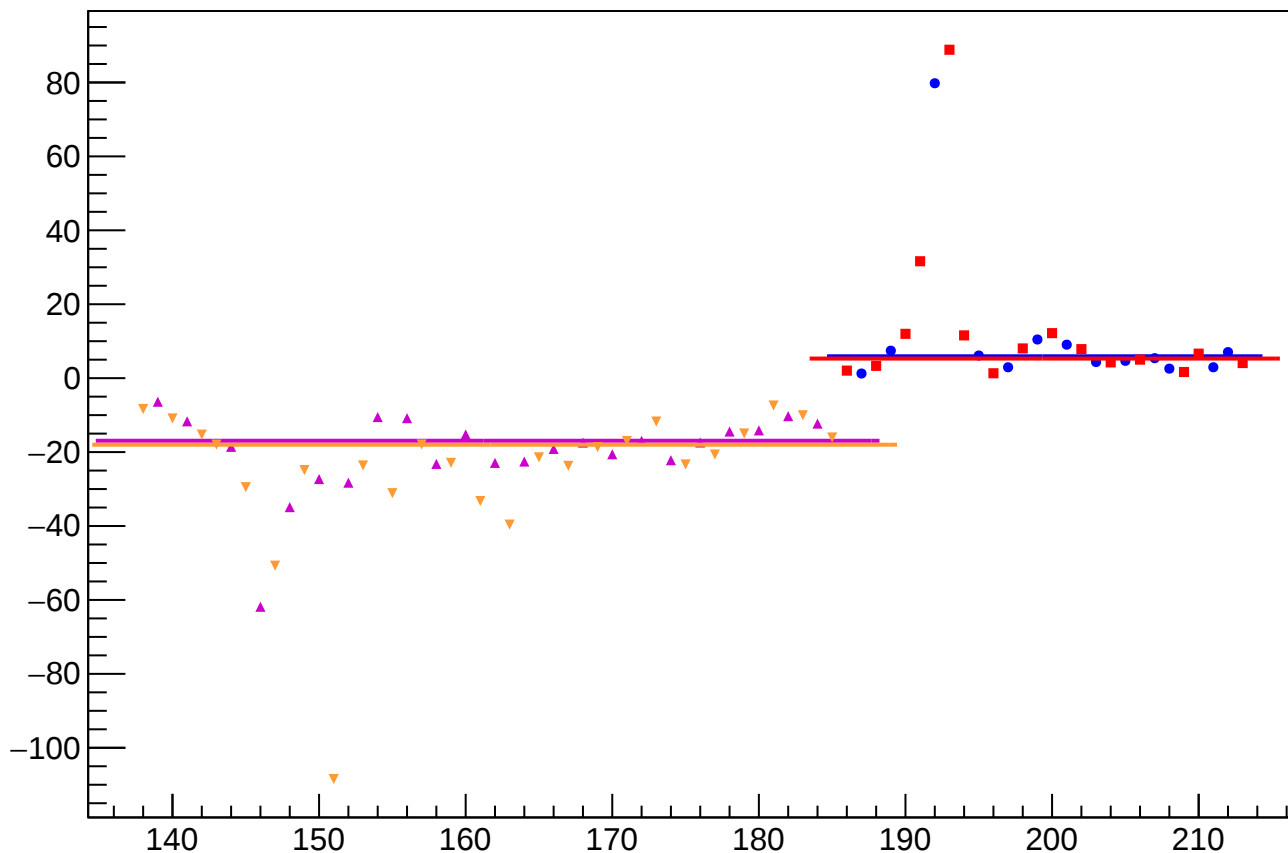
Right: 0.234 $\pm$ 0.002 χ^2 /NDF: 23867.6/63

In: 0.128 $\pm$ 0.001 χ^2 /NDF:18080.4/52

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:18572.1/58

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 36818.5/111

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



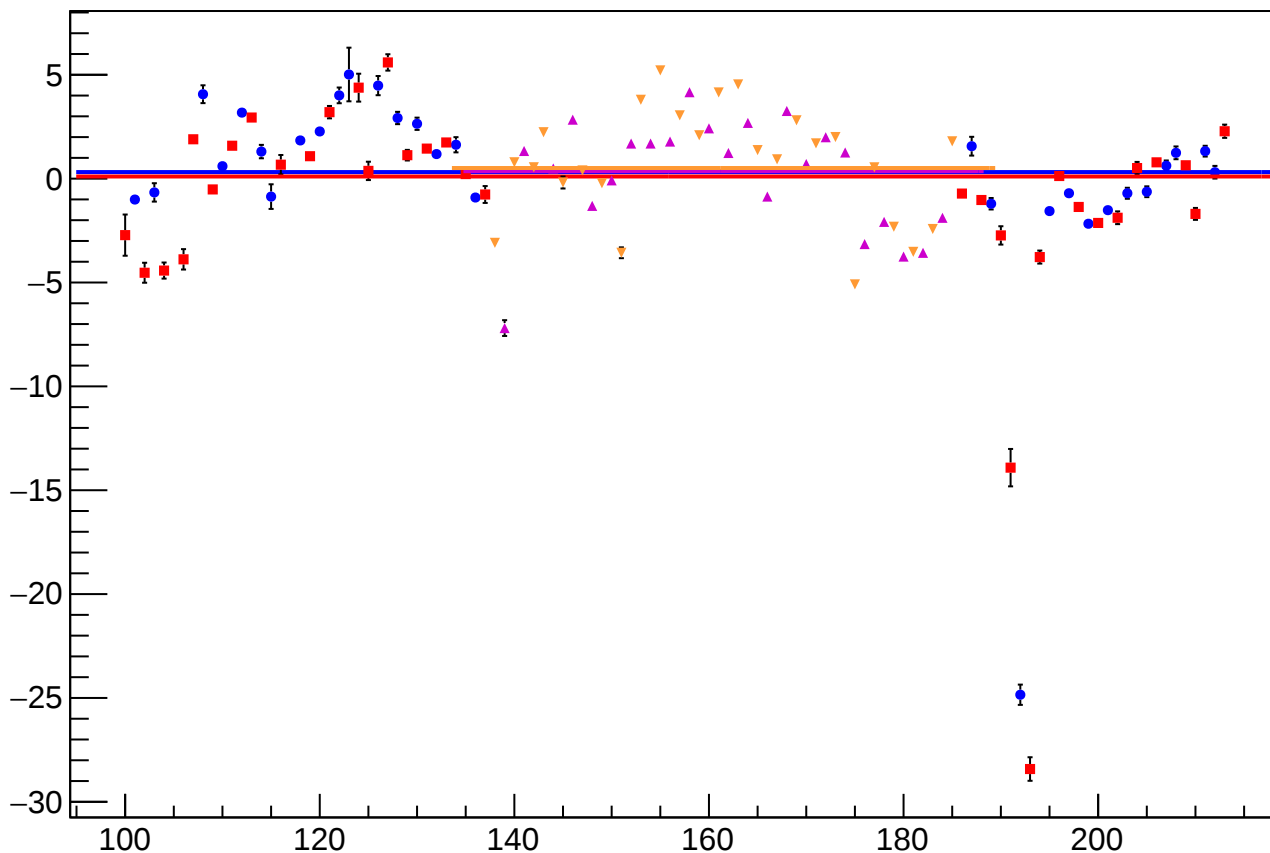
Right In: 5.916 $\pm$ 0.052 χ^2 /NDF: 26501.8/12
 Left Out: -18.005 $\pm$ 0.039 χ^2 /NDF: 88391.0/24
 Right Out: 5.304 $\pm$ 0.049 χ^2 /NDF: 27239.6/14
 Left In: -16.934 $\pm$ 0.038 χ^2 /NDF: 44060.6/22

Left: -17.459 $\pm$ 0.027 χ^2 /NDF: 132843.0/47
 Right: 5.591 $\pm$ 0.036 χ^2 /NDF: 53814.1/27

In: -9.078 $\pm$ 0.031 χ^2 /NDF: 195511.7/35
 Out: -9.096 $\pm$ 0.030 χ^2 /NDF: 254713.8/39

All: -9.087 $\pm$ 0.022 χ^2 /NDF: 450225.7/75

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.317 ± 0.047 $\chi^2/\text{NDF}: 3985.2/29$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.104 ± 0.044 $\chi^2/\text{NDF}: 4514.8/33$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

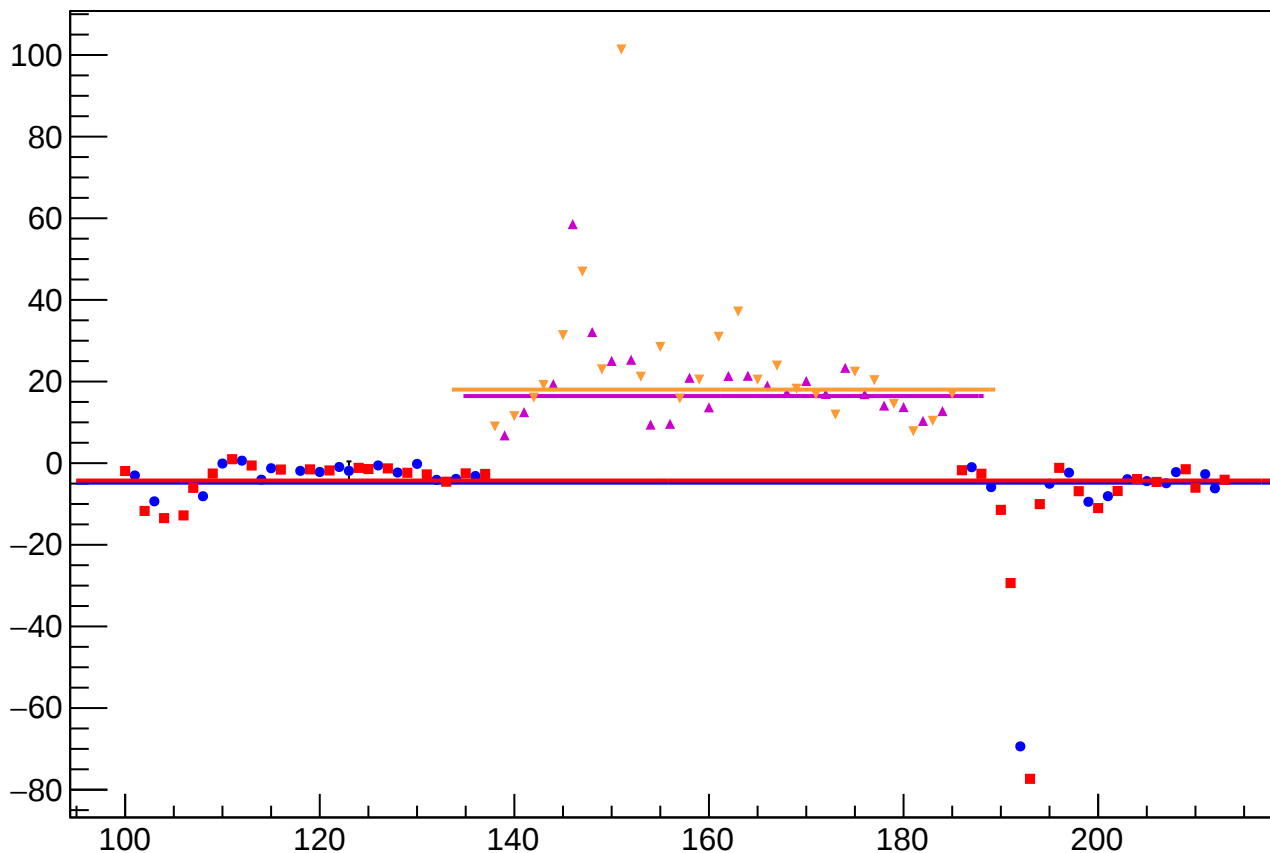
Right: 0.204 ± 0.032 $\chi^2/\text{NDF}: 8511.1/63$

In: 0.347 ± 0.026 $\chi^2/\text{NDF}: 10206.9/52$

Out: 0.370 ± 0.026 $\chi^2/\text{NDF}: 11641.2/58$

All: 0.358 ± 0.018 $\chi^2/\text{NDF}: 21848.5/111$

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.780 $\pm$ 0.045 χ^2 /NDF: 27564.5/29

Left Out: 18.027 $\pm$ 0.039 χ^2 /NDF: 77718.1/24

Right Out: -4.250 $\pm$ 0.041 χ^2 /NDF: 28699.5/33

Left In: 16.443 $\pm$ 0.038 χ^2 /NDF: 40780.6/22

Left: 17.207 $\pm$ 0.027 χ^2 /NDF: 119360.0/47

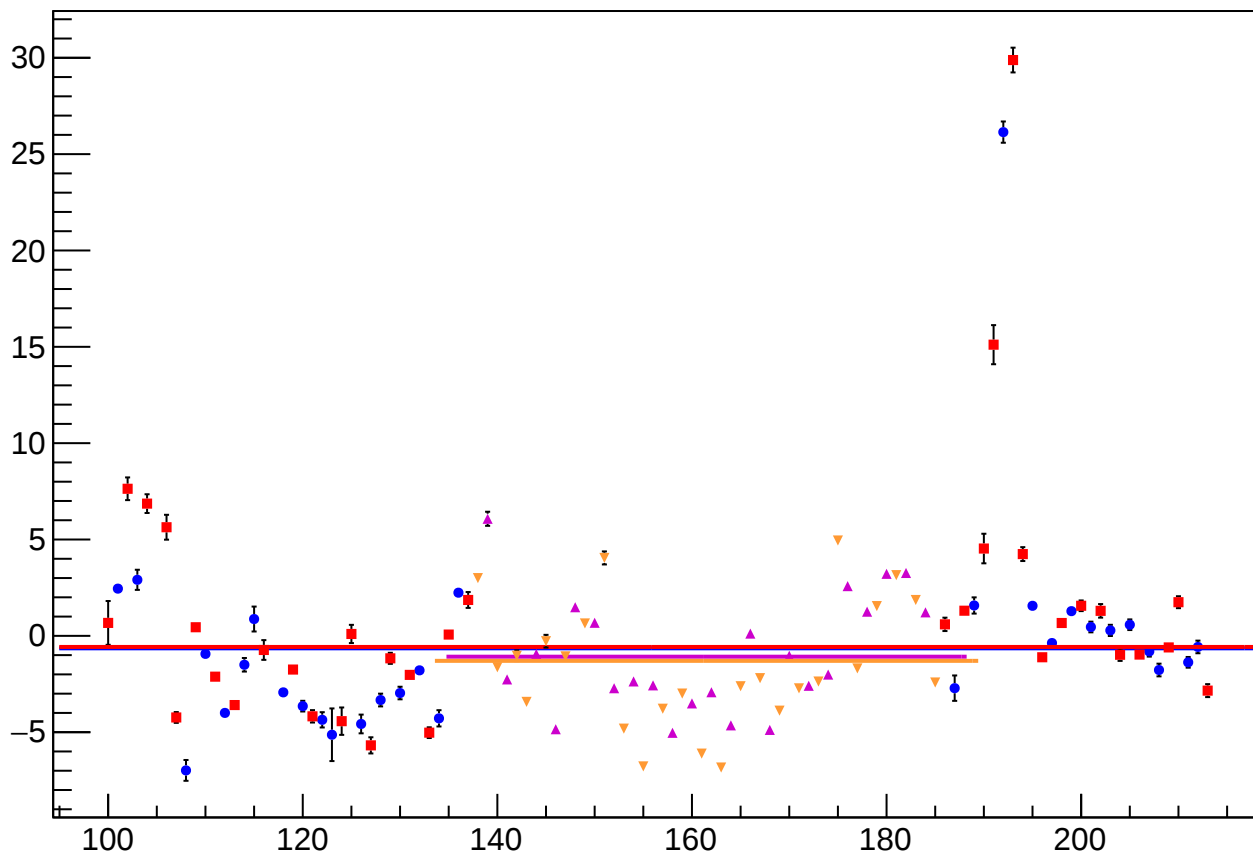
Right: -4.490 $\pm$ 0.030 χ^2 /NDF: 56340.8/63

In: 7.674 $\pm$ 0.029 χ^2 /NDF: 200608.2/52

Out: 7.399 $\pm$ 0.028 χ^2 /NDF: 263515.8/58

All: 7.534 $\pm$ 0.020 χ^2 /NDF: 464170.9/111

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.647 ± 0.054 $\chi^2/\text{NDF}: 4044.7/29$

Left Out: -1.297 ± 0.036 $\chi^2/\text{NDF}: 7925.1/24$

Right Out: -0.576 ± 0.051 $\chi^2/\text{NDF}: 4726.8/33$

Left In: -1.082 ± 0.034 $\chi^2/\text{NDF}: 6724.1/22$

Left: -1.184 ± 0.025 $\chi^2/\text{NDF}: 14668.4/47$

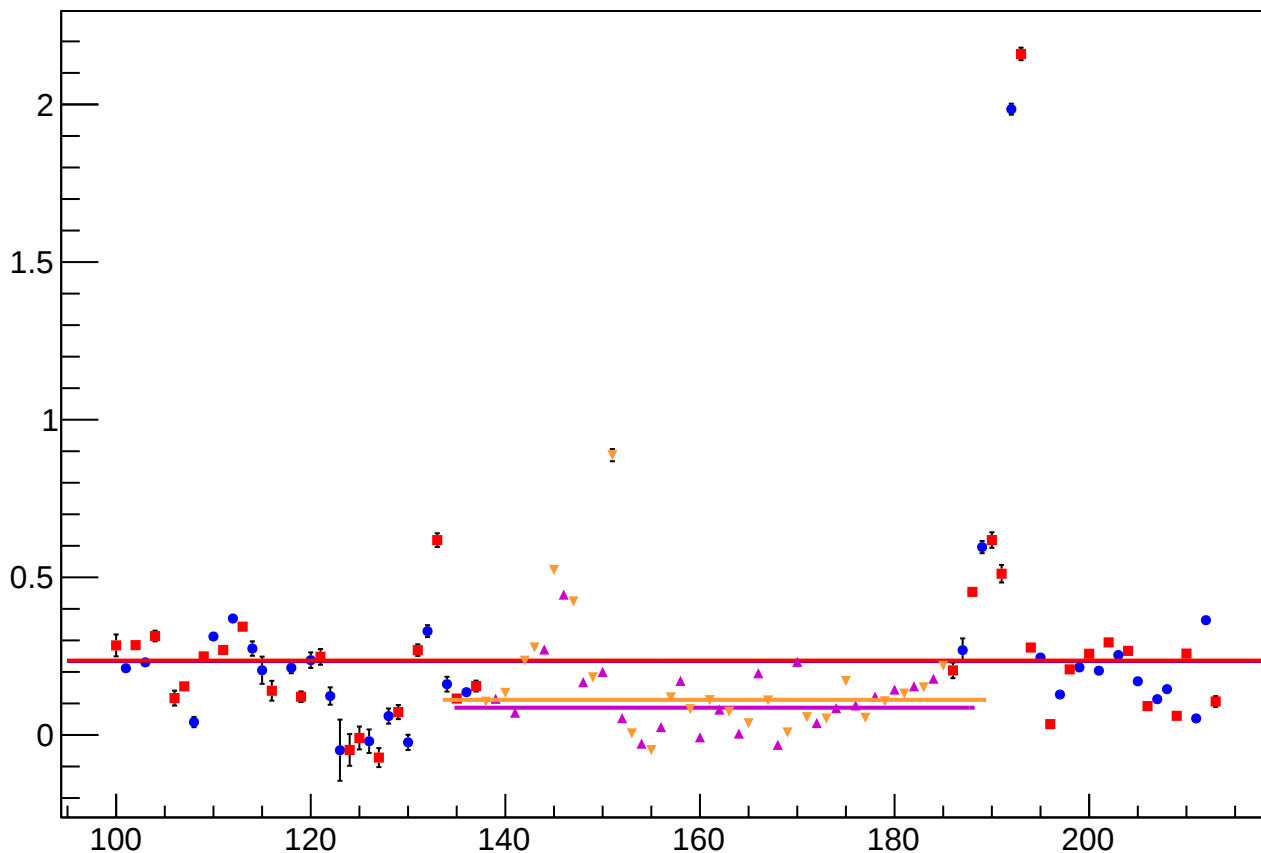
Right: -0.610 ± 0.037 $\chi^2/\text{NDF}: 8772.4/63$

In: -0.958 ± 0.029 $\chi^2/\text{NDF}: 10815.6/52$

Out: -1.060 ± 0.029 $\chi^2/\text{NDF}: 12786.7/58$

All: -1.008 ± 0.020 $\chi^2/\text{NDF}: 23608.5/111$

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.234 $\pm$ 0.002 χ^2 /NDF: 11824.2/29

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF: 4496.0/24

Right Out: 0.236 $\pm$ 0.002 χ^2 /NDF: 12297.4/33

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

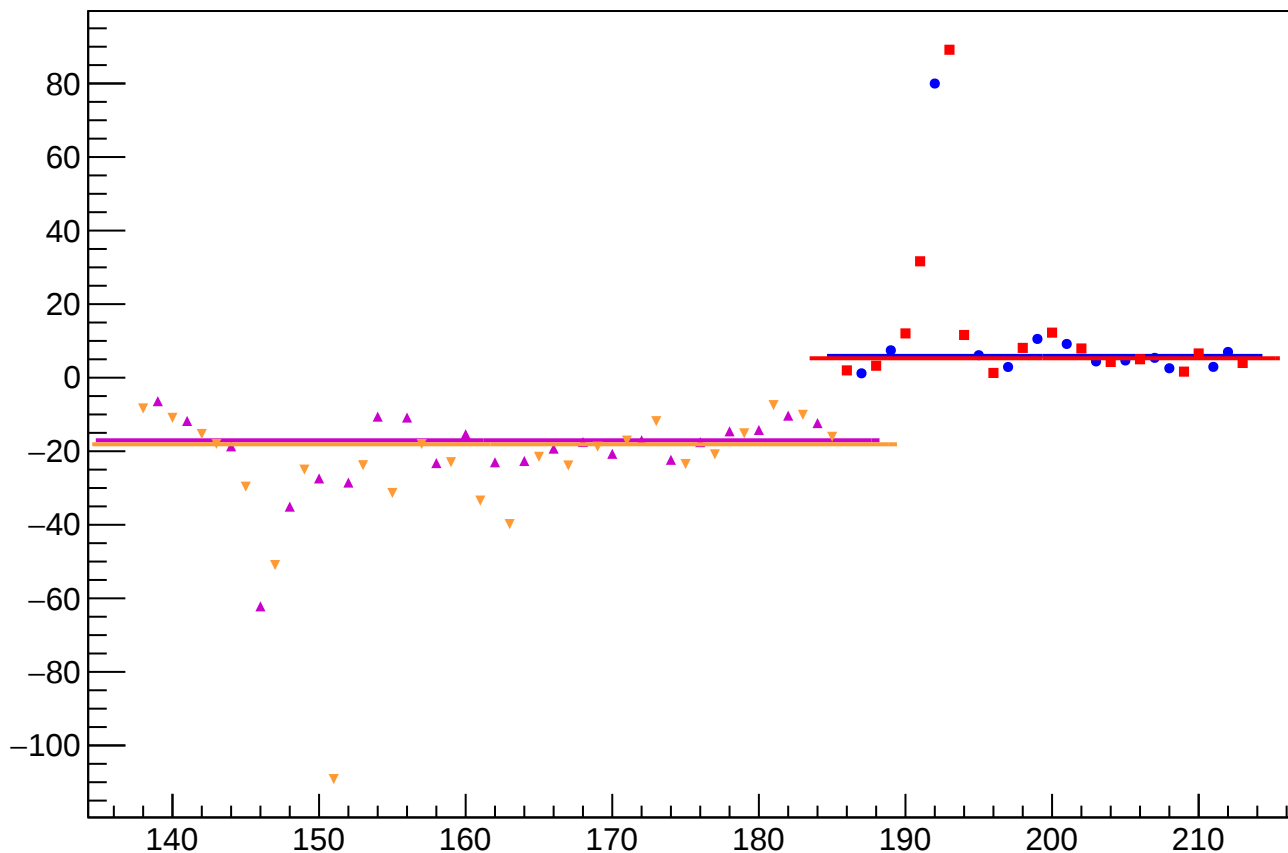
Right: 0.235 $\pm$ 0.002 χ^2 /NDF: 24121.9/63

In: 0.128 $\pm$ 0.001 χ^2 /NDF: 18230.5/52

Out: 0.152 $\pm$ 0.001 χ^2 /NDF: 18771.0/58

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 37165.0/111

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.924 $\pm$ 0.053 χ^2 /NDF: 26490.4/12

Left Out: -18.112 $\pm$ 0.039 χ^2 /NDF: 88529.7/24

Right Out: 5.280 $\pm$ 0.049 χ^2 /NDF: 27261.0/14

Left In: -17.024 $\pm$ 0.038 χ^2 /NDF: 44141.8/22

Left: -17.557 $\pm$ 0.027 χ^2 /NDF: 133072.9/47

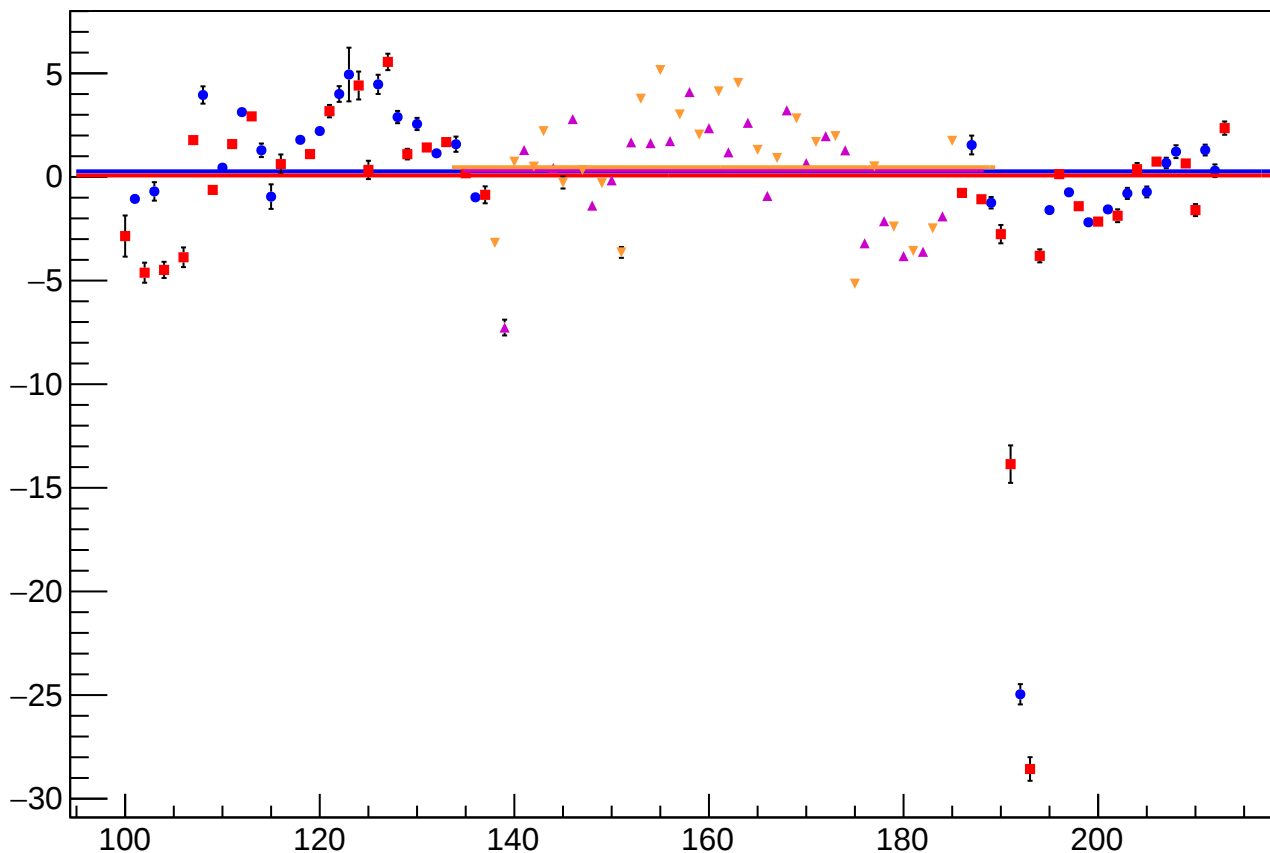
Right: 5.581 $\pm$ 0.036 χ^2 /NDF: 53831.0/27

In: -9.164 $\pm$ 0.031 χ^2 /NDF: 195207.5/35

Out: -9.175 $\pm$ 0.031 χ^2 /NDF: 254623.0/39

All: -9.170 $\pm$ 0.022 χ^2 /NDF: 449830.6/75

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.270 $\pm$ 0.047 χ^2 /NDF: 3973.7/29

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF: 7093.0/24

Right Out: 0.072 $\pm$ 0.044 χ^2 /NDF: 4506.2/33

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

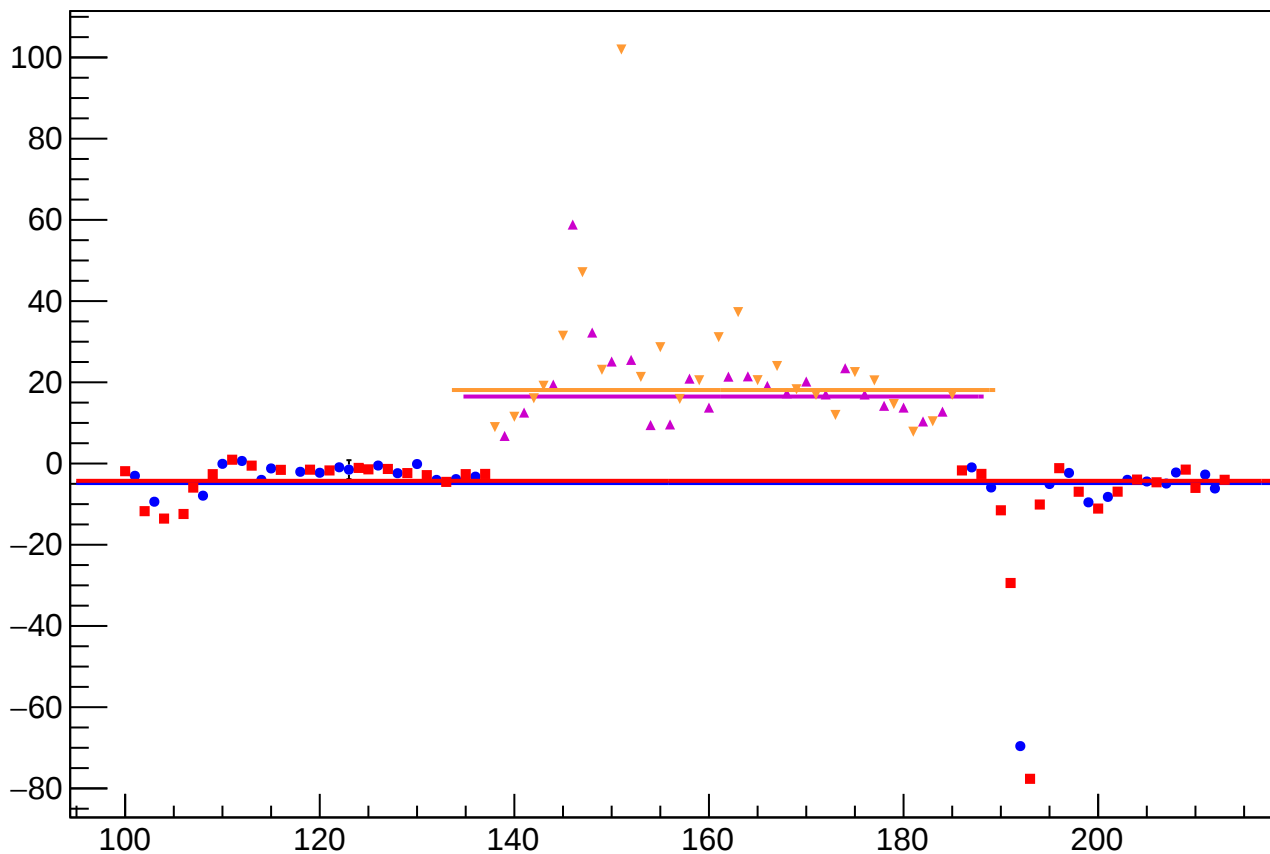
Right: 0.165 $\pm$ 0.032 χ^2 /NDF: 8489.4/63

In: 0.299 $\pm$ 0.026 χ^2 /NDF: 10157.3/52

Out: 0.331 $\pm$ 0.026 χ^2 /NDF: 11651.9/58

All: 0.314 $\pm$ 0.018 χ^2 /NDF: 21810.0/111

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.812 ± 0.045 $\chi^2/\text{NDF}: 27555.9/29$

Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$

Right Out: -4.258 ± 0.041 $\chi^2/\text{NDF}: 28707.1/33$

Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$

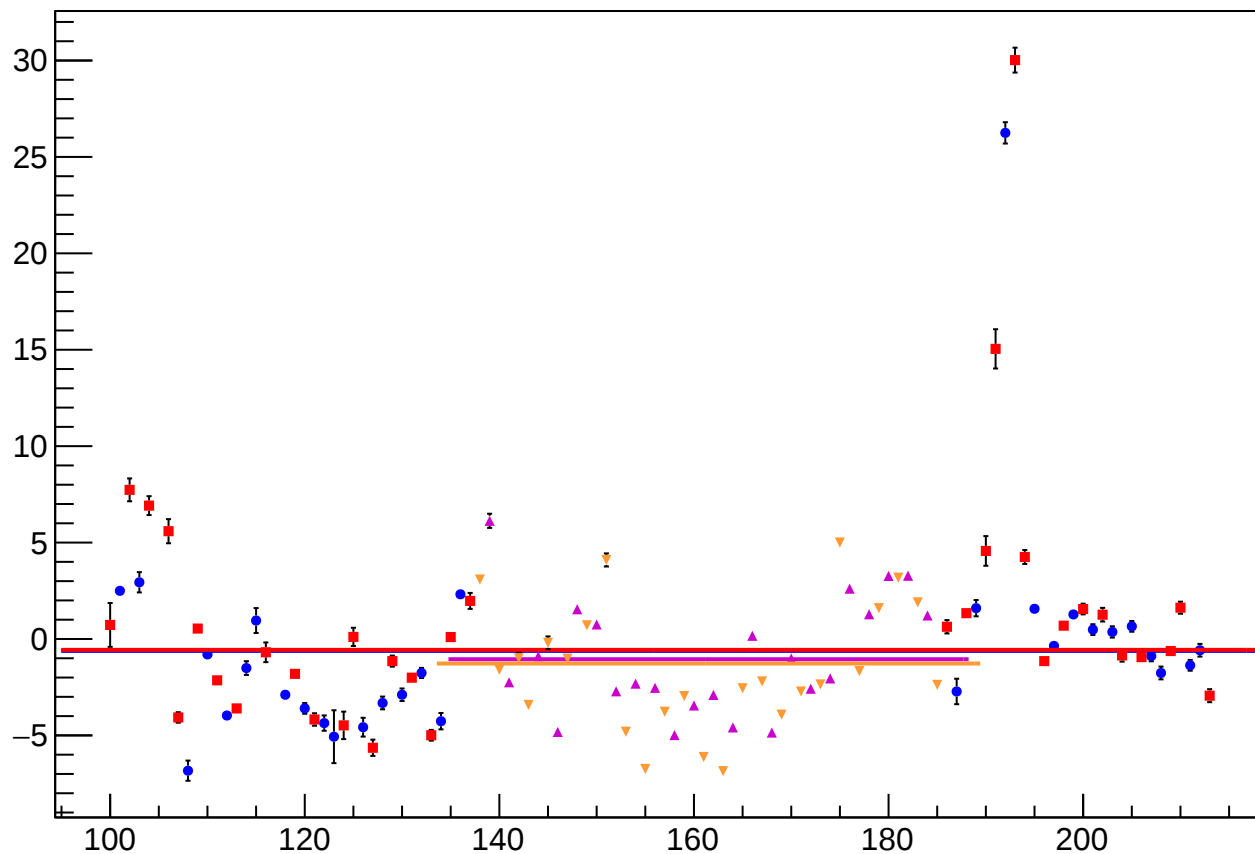
Right: -4.508 ± 0.030 $\chi^2/\text{NDF}: 56346.1/63$

In: 7.720 ± 0.029 $\chi^2/\text{NDF}: 200313.7/52$

Out: 7.432 ± 0.028 $\chi^2/\text{NDF}: 263482.5/58$

All: 7.572 ± 0.020 $\chi^2/\text{NDF}: 463847.2/111$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.616 ± 0.054 $\chi^2/\text{NDF}: 4037.1/29$

Left Out: -1.273 ± 0.036 $\chi^2/\text{NDF}: 7951.6/24$

Right Out: -0.565 ± 0.051 $\chi^2/\text{NDF}: 4720.0/33$

Left In: -1.050 ± 0.034 $\chi^2/\text{NDF}: 6673.4/22$

Left: -1.156 ± 0.025 $\chi^2/\text{NDF}: 14645.3/47$

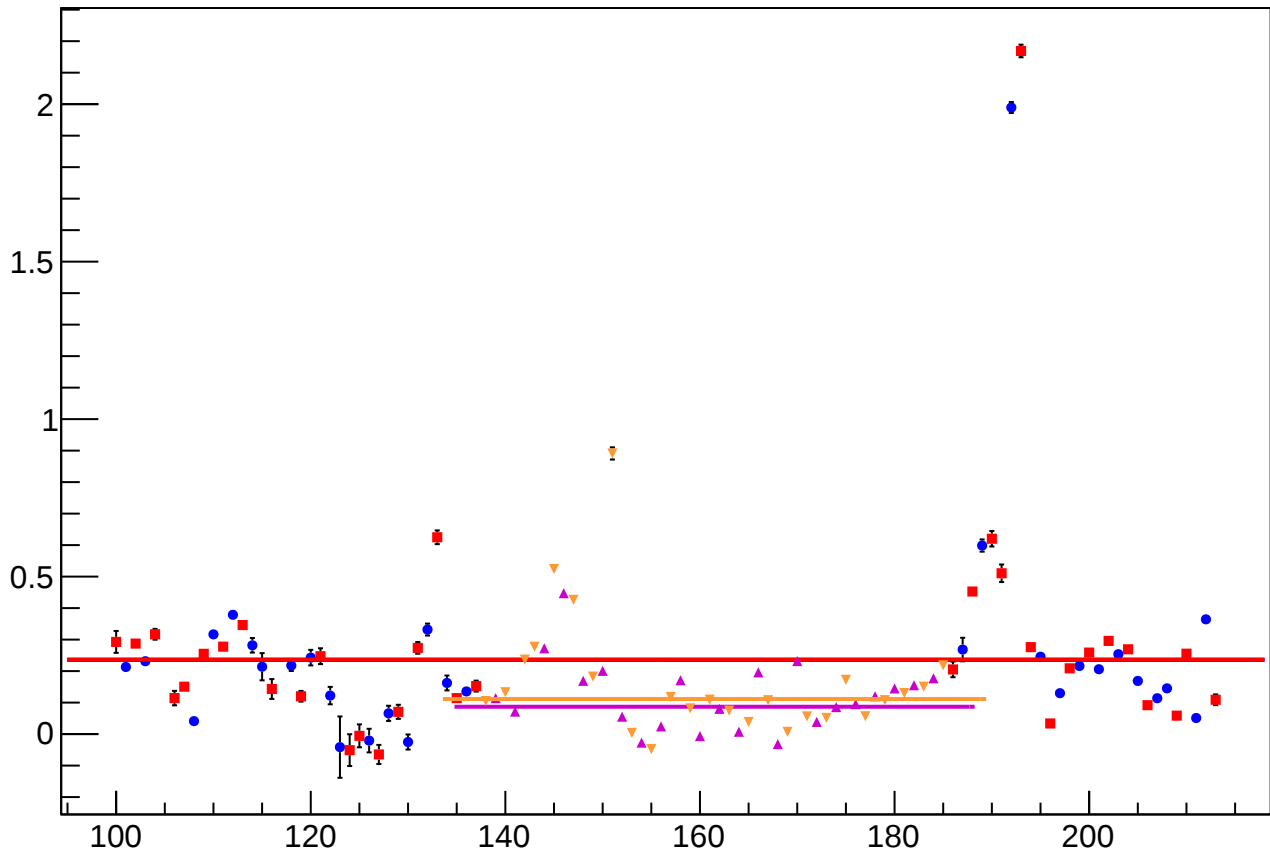
Right: -0.589 ± 0.037 $\chi^2/\text{NDF}: 8757.6/63$

In: -0.927 ± 0.029 $\chi^2/\text{NDF}: 10756.9/52$

Out: -1.040 ± 0.029 $\chi^2/\text{NDF}: 12800.5/58$

All: -0.982 ± 0.021 $\chi^2/\text{NDF}: 23564.9/111$

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.236 ± 0.002 $\chi^2/\text{NDF}: 11819.8/29$

Left Out: 0.111 ± 0.002 $\chi^2/\text{NDF}: 4474.5/24$

Right Out: 0.237 ± 0.002 $\chi^2/\text{NDF}: 12313.5/33$

Left In: 0.087 ± 0.001 $\chi^2/\text{NDF}: 3598.5/22$

Left: 0.098 ± 0.001 $\chi^2/\text{NDF}: 8197.1/47$

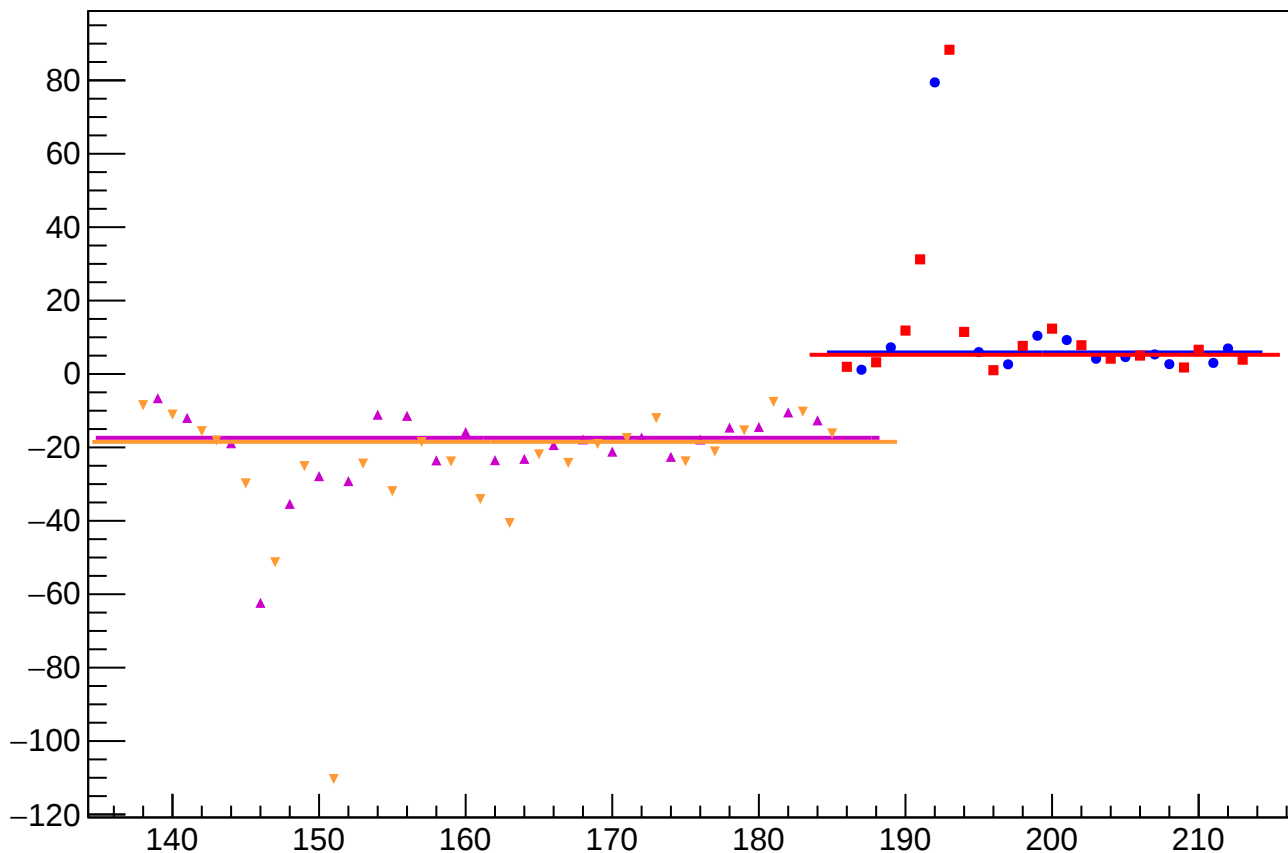
Right: 0.236 ± 0.002 $\chi^2/\text{NDF}: 24133.4/63$

In: 0.129 ± 0.001 $\chi^2/\text{NDF}: 18207.1/52$

Out: 0.152 ± 0.001 $\chi^2/\text{NDF}: 18778.0/58$

All: 0.140 ± 0.001 $\chi^2/\text{NDF}: 37142.3/111$

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.869 ± 0.053 χ^2/NDF : 26016.4/12
 Left Out: -18.479 ± 0.040 χ^2/NDF : 87883.4/24
 Right Out: 5.231 ± 0.050 χ^2/NDF : 26680.7/14
 Left In: -17.393 ± 0.039 χ^2/NDF : 43178.9/22

Left: -17.926 ± 0.028 χ^2/NDF : 131443.9/47

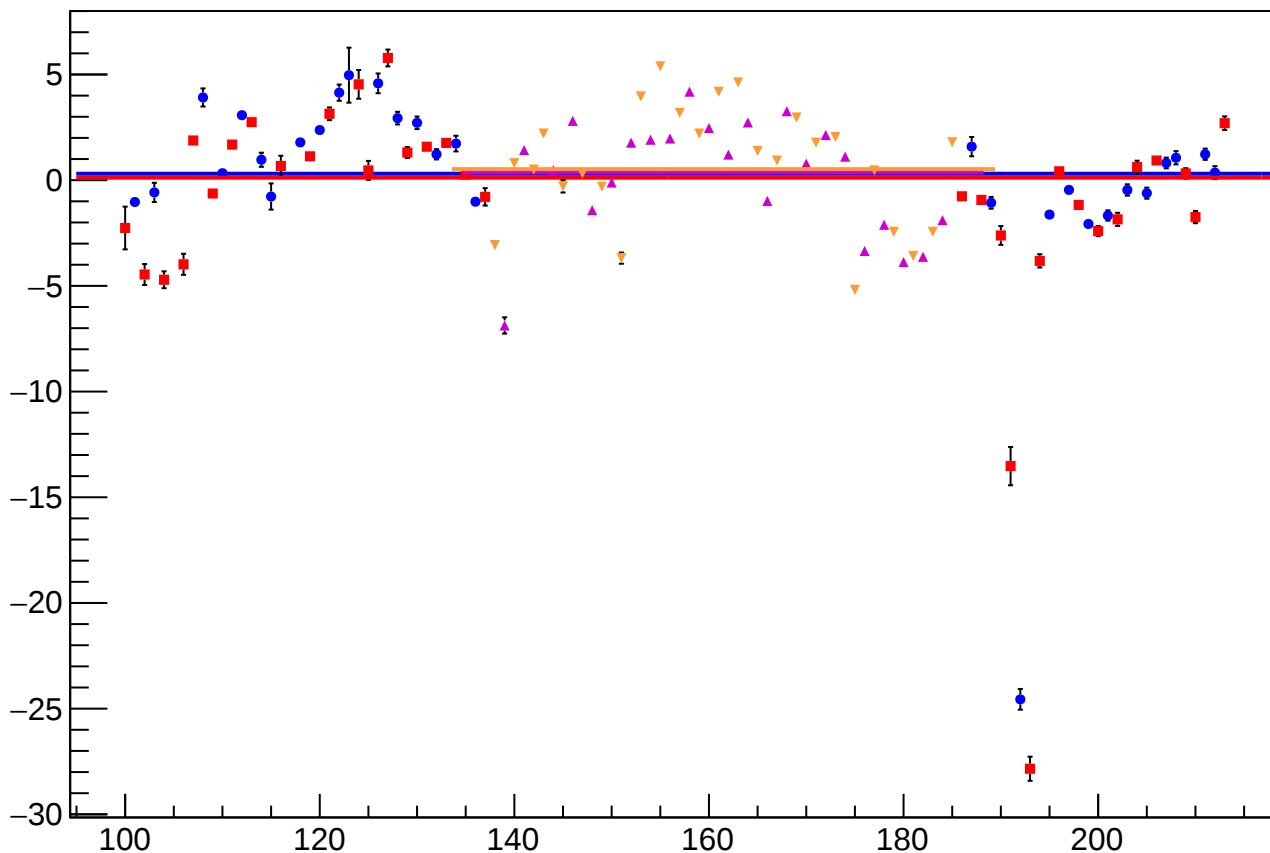
Right: 5.528 ± 0.036 χ^2/NDF : 52774.3/27

In: -9.243 ± 0.031 χ^2/NDF : 194099.7/35

Out: -9.212 ± 0.031 χ^2/NDF : 253969.2/39

All: -9.227 ± 0.022 χ^2/NDF : 448069.4/75

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.305 ± 0.048 $\chi^2/\text{NDF}: 3835.8/29$

Left Out: 0.522 ± 0.033 $\chi^2/\text{NDF}: 7055.1/24$

Right Out: 0.118 ± 0.045 $\chi^2/\text{NDF}: 4366.4/33$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

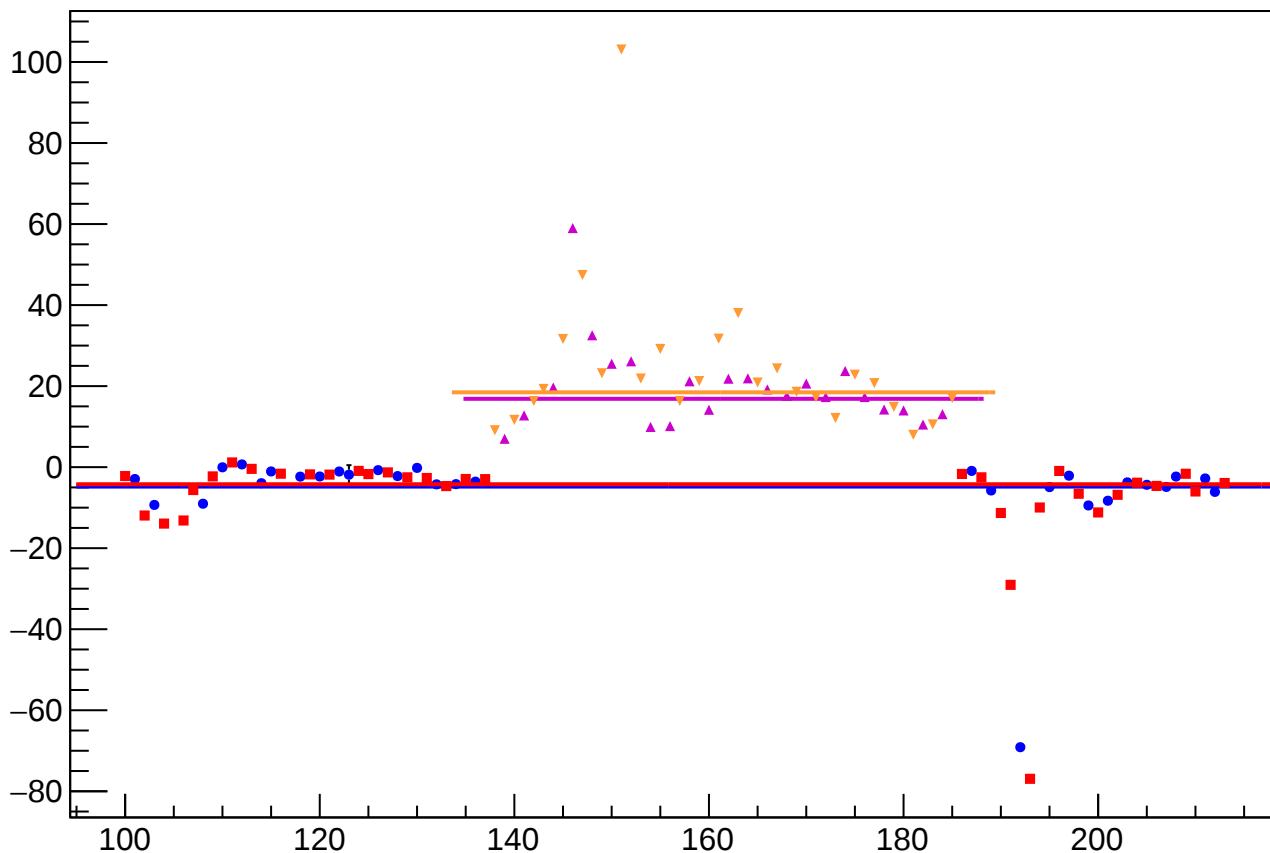
Right: 0.206 ± 0.033 $\chi^2/\text{NDF}: 8210.4/63$

In: 0.351 ± 0.026 $\chi^2/\text{NDF}: 10054.5/52$

Out: 0.380 ± 0.027 $\chi^2/\text{NDF}: 11474.2/58$

All: 0.365 ± 0.019 $\chi^2/\text{NDF}: 21529.2/111$

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.792 ± 0.045 $\chi^2/\text{NDF}: 27045.7/29$

Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$

Right Out: -4.221 ± 0.041 $\chi^2/\text{NDF}: 28151.9/33$

Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$

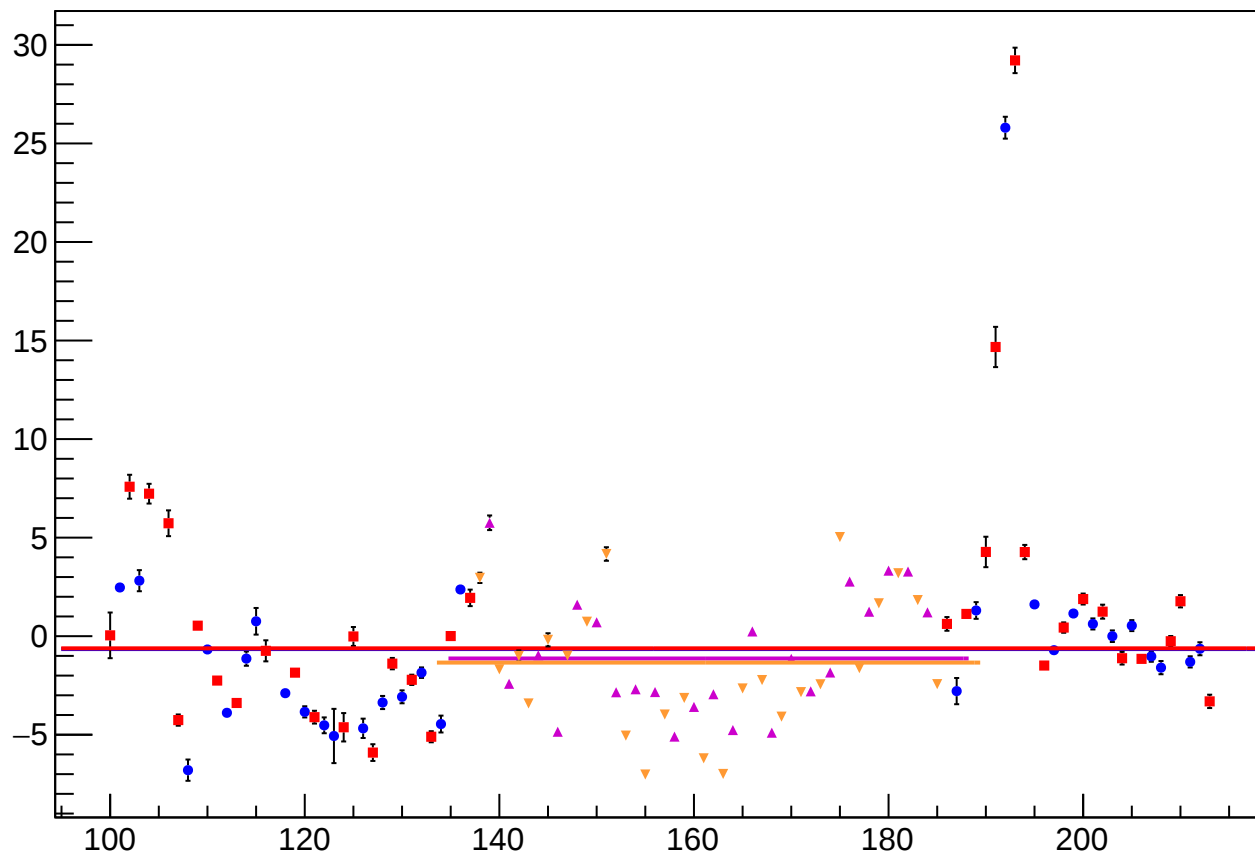
Right: -4.478 ± 0.030 $\chi^2/\text{NDF}: 55284.6/63$

In: 7.779 ± 0.029 $\chi^2/\text{NDF}: 199163.5/52$

Out: 7.463 ± 0.029 $\chi^2/\text{NDF}: 262326.9/58$

All: 7.617 ± 0.021 $\chi^2/\text{NDF}: 461549.9/111$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.654 ± 0.055 χ^2/NDF : 3915.5/29

Left Out: -1.340 ± 0.037 χ^2/NDF : 7907.4/24

Right Out: -0.617 ± 0.052 χ^2/NDF : 4592.2/33

Left In: -1.132 ± 0.035 χ^2/NDF : 6708.5/22

Left: -1.231 ± 0.025 χ^2/NDF : 14632.9/47

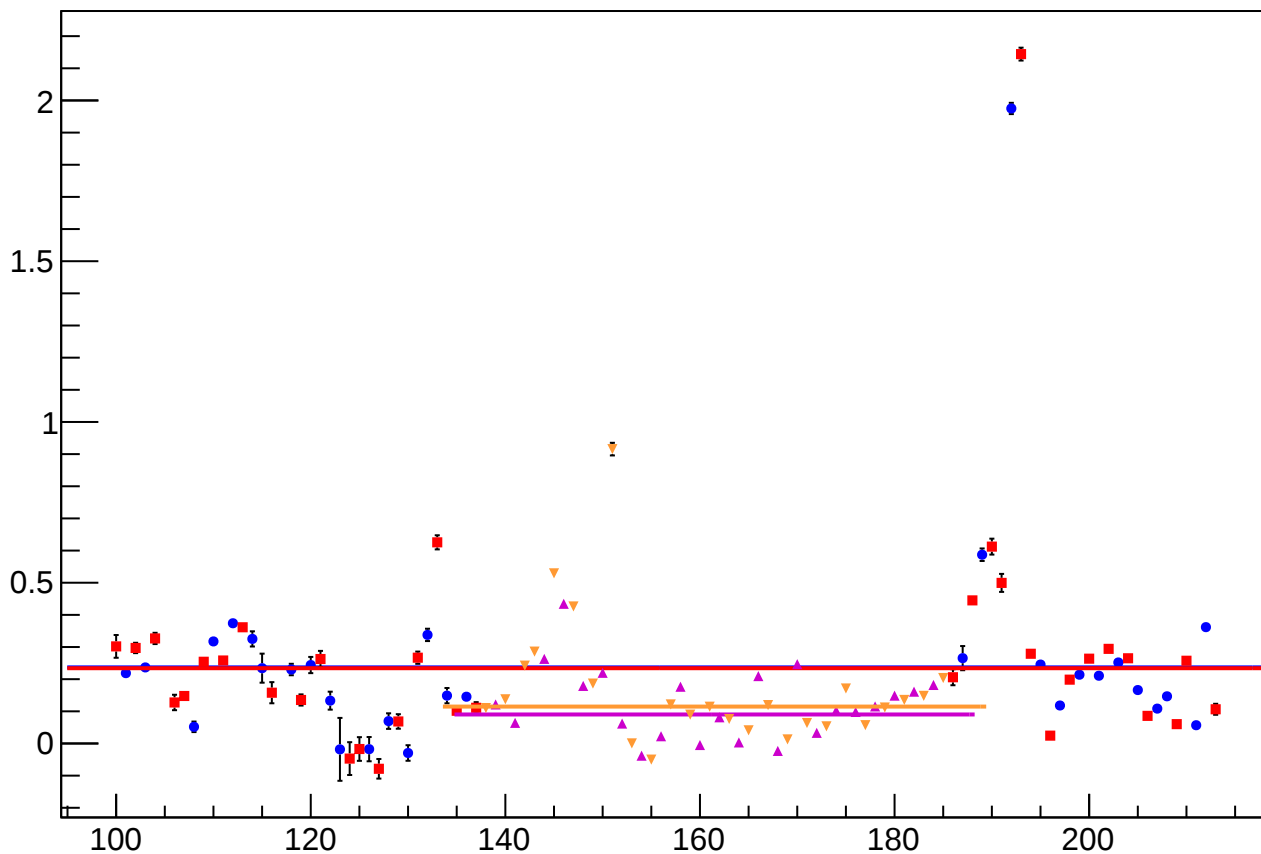
Right: -0.634 ± 0.038 χ^2/NDF : 8507.9/63

In: -0.994 ± 0.029 χ^2/NDF : 10678.4/52

Out: -1.099 ± 0.030 χ^2/NDF : 12629.6/58

All: -1.046 ± 0.021 χ^2/NDF : 23314.4/111

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.237 $\pm$ 0.002 χ^2 /NDF: 11557.3/29

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.234 $\pm$ 0.002 χ^2 /NDF: 12160.5/33

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

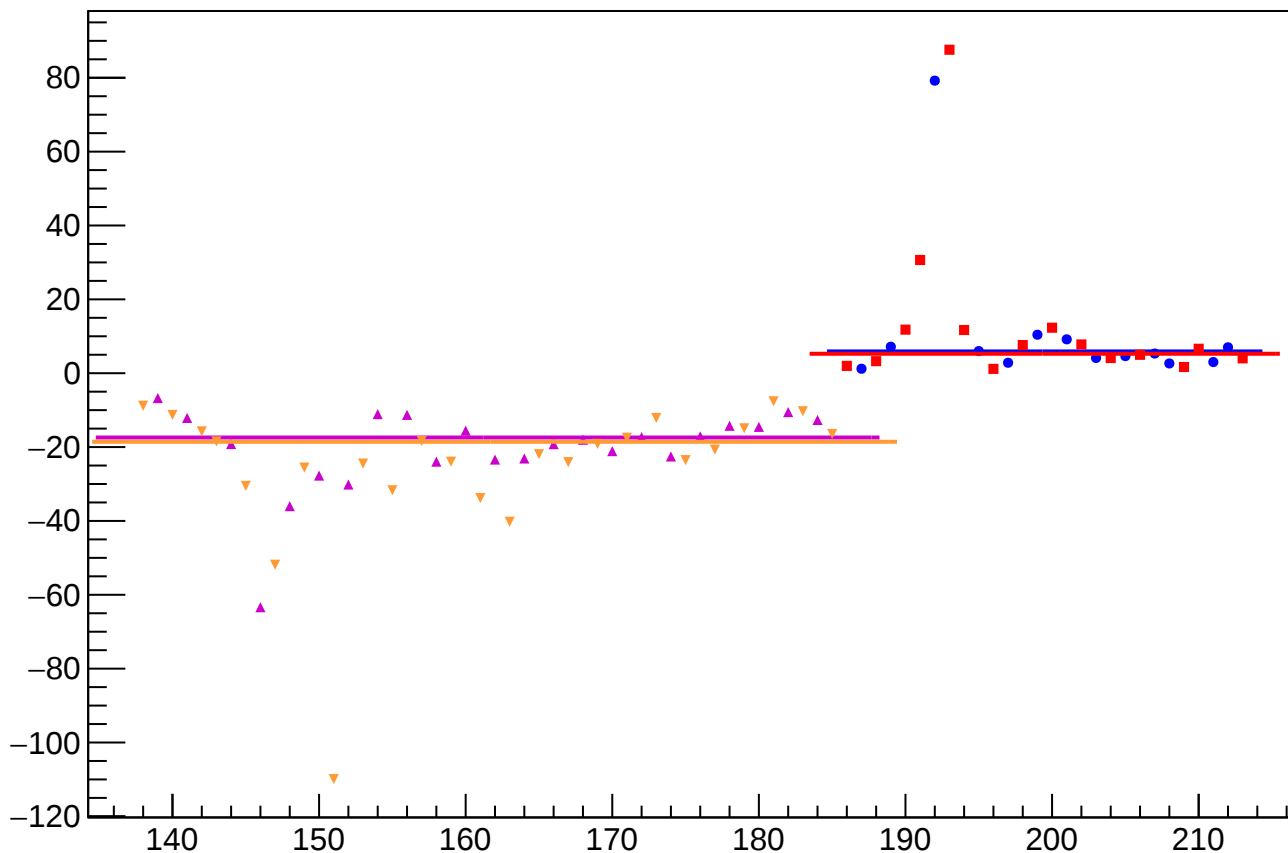
Right: 0.235 $\pm$ 0.002 χ^2 /NDF: 23718.4/63

In: 0.133 $\pm$ 0.001 χ^2 /NDF:17858.9/52

Out: 0.154 $\pm$ 0.001 χ^2 /NDF:18340.6/58

All: 0.143 $\pm$ 0.001 χ^2 /NDF: 36331.9/111

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.896 $\pm$ 0.054 χ^2 /NDF: 25529.1/12

Left Out: -18.566 $\pm$ 0.040 χ^2 /NDF: 86389.6/24

Right Out: 5.266 $\pm$ 0.050 χ^2 /NDF: 26047.8/14

Left In: -17.414 $\pm$ 0.039 χ^2 /NDF: 43504.1/22

Left: -17.979 $\pm$ 0.028 χ^2 /NDF: 130314.7/47

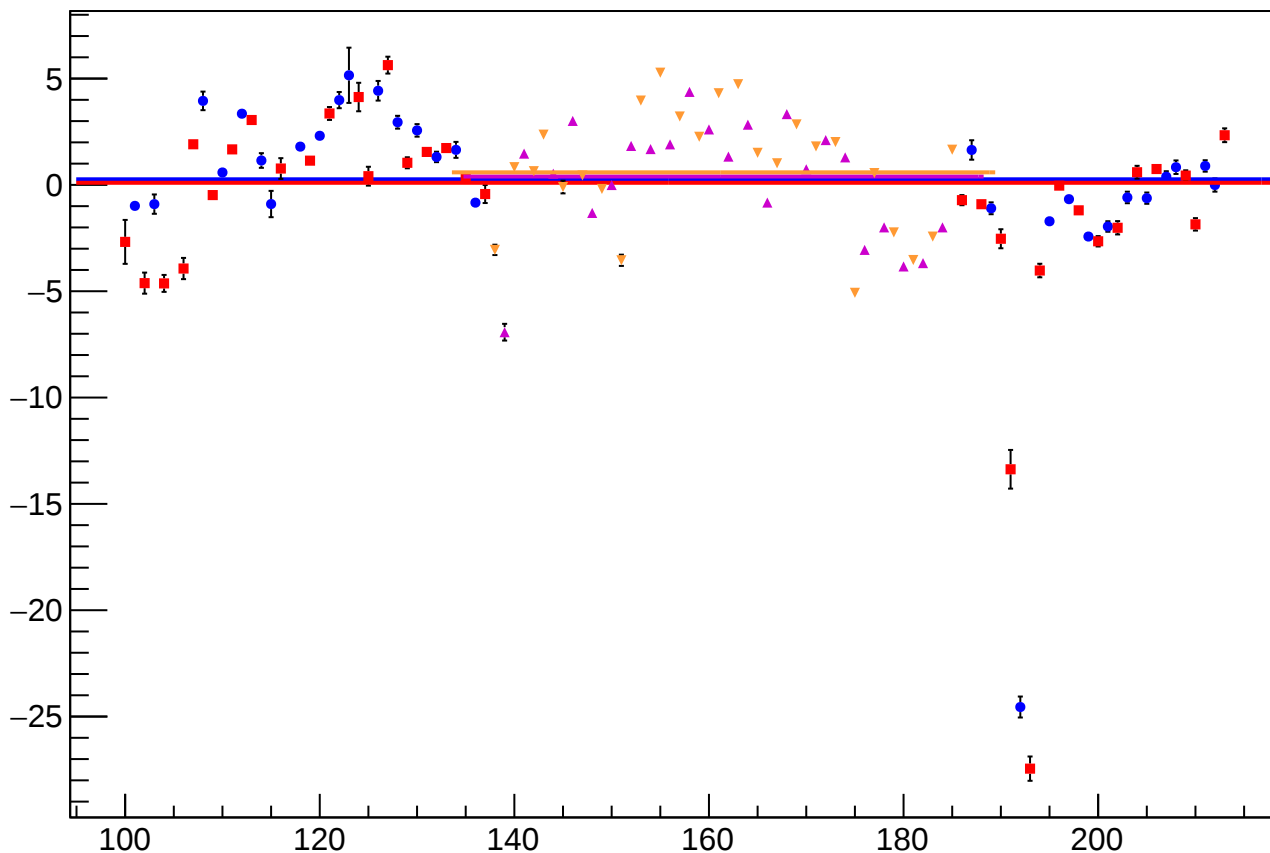
Right: 5.559 $\pm$ 0.037 χ^2 /NDF: 51650.4/27

In: -9.283 $\pm$ 0.032 χ^2 /NDF: 191737.0/35

Out: -9.282 $\pm$ 0.031 χ^2 /NDF: 250055.3/39

All: -9.282 $\pm$ 0.022 χ^2 /NDF: 441792.3/75

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.263 $\pm$ 0.048 χ^2 /NDF: 3867.2/29

Left Out: 0.591 $\pm$ 0.033 χ^2 /NDF:6796.5/24

Right Out: 0.100 $\pm$ 0.045 χ^2 /NDF: 4306.3/33

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

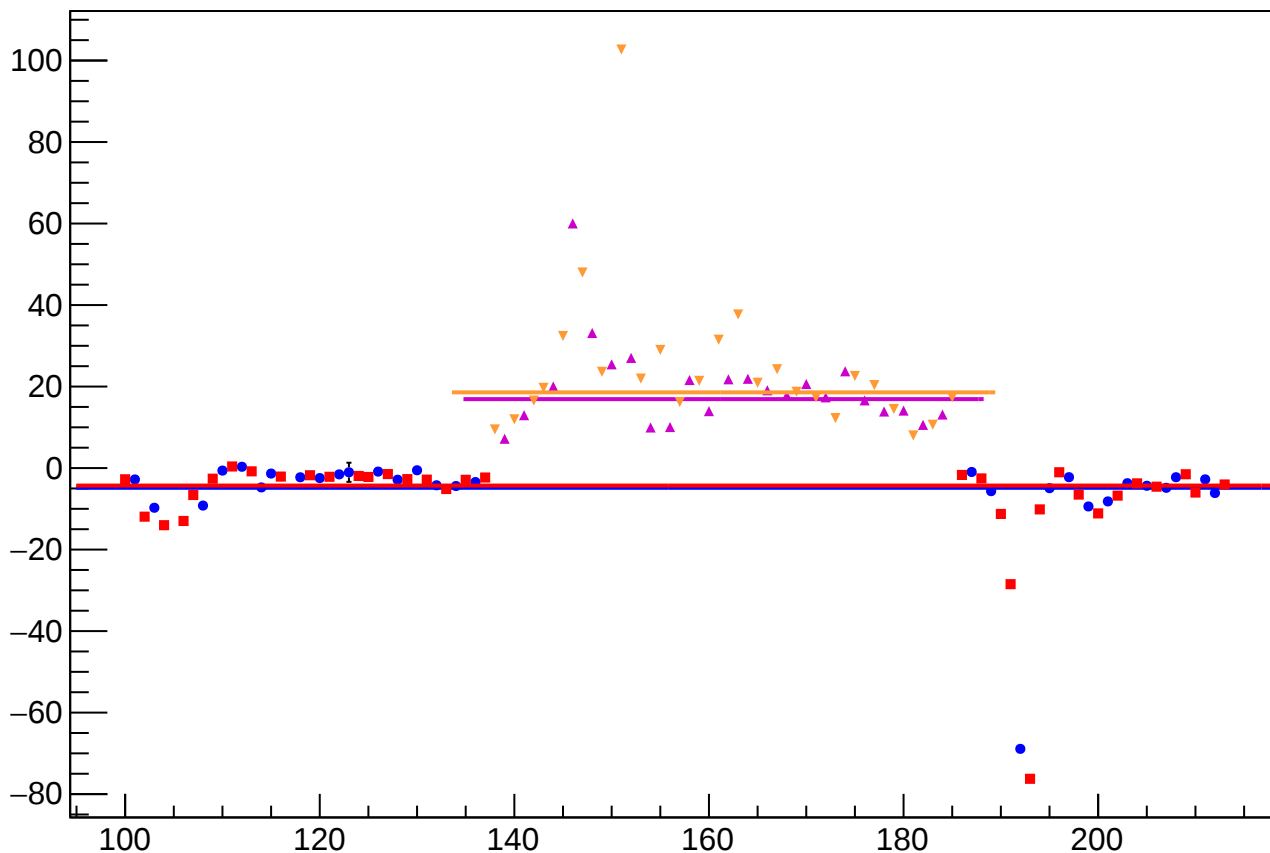
Right: 0.177 $\pm$ 0.033 χ^2 /NDF: 8179.6/63

In: 0.354 $\pm$ 0.026 χ^2 /NDF:9932.1/52

Out: 0.419 $\pm$ 0.027 χ^2 /NDF:11179.0/58

All: 0.386 $\pm$ 0.019 χ^2 /NDF: 21114.1/111

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.834 ± 0.046 $\chi^2/\text{NDF}: 26382.7/29$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -4.290 ± 0.042 $\chi^2/\text{NDF}: 27292.3/33$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

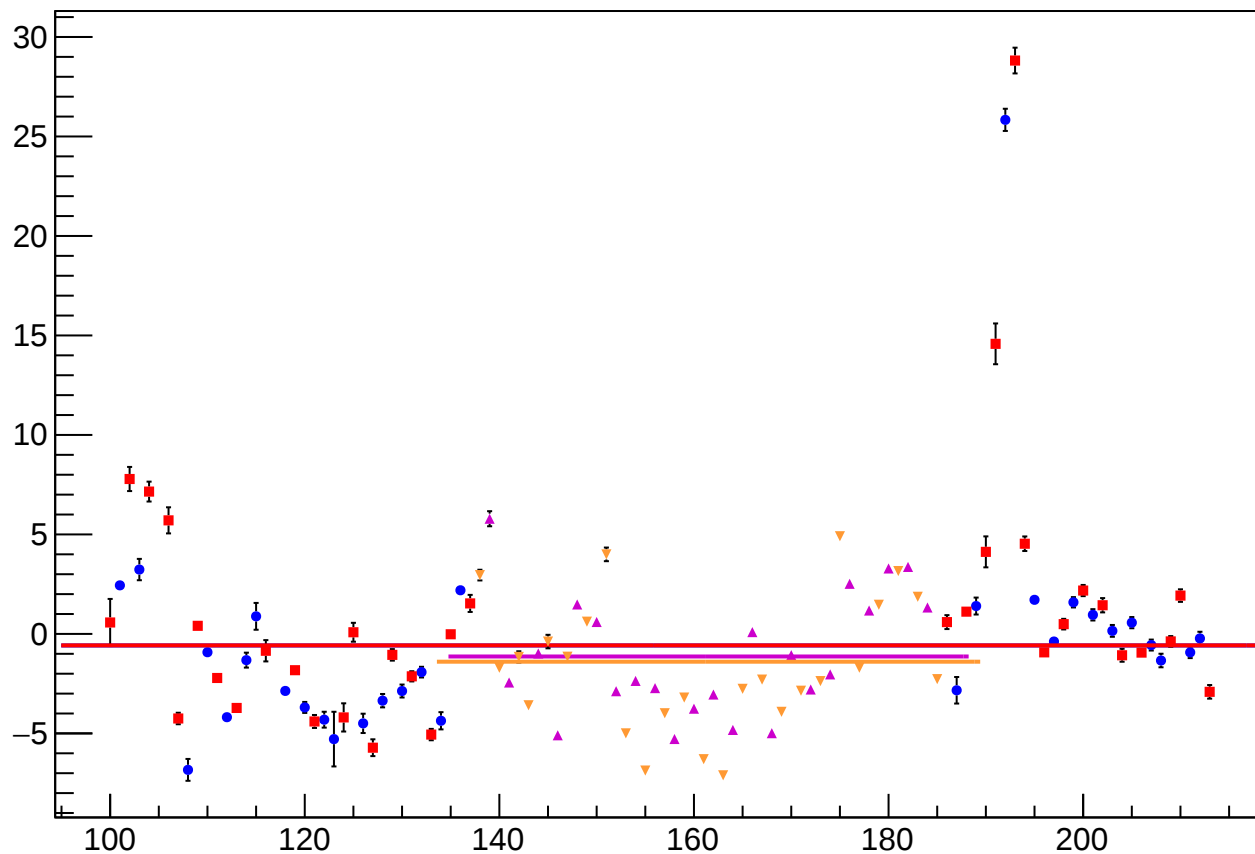
Right: -4.536 ± 0.031 $\chi^2/\text{NDF}: 53751.9/63$

In: 7.831 ± 0.030 $\chi^2/\text{NDF}: 197135.7/52$

Out: 7.538 ± 0.029 $\chi^2/\text{NDF}: 258971.7/58$

All: 7.681 ± 0.021 $\chi^2/\text{NDF}: 456157.2/111$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.581 ± 0.055 χ^2/NDF : 3906.4/29

Left Out: -1.396 ± 0.037 χ^2/NDF : 7651.5/24

Right Out: -0.576 ± 0.053 χ^2/NDF : 4517.5/33

Left In: -1.135 ± 0.035 χ^2/NDF : 6597.7/22

Left: -1.259 ± 0.025 χ^2/NDF : 14275.6/47

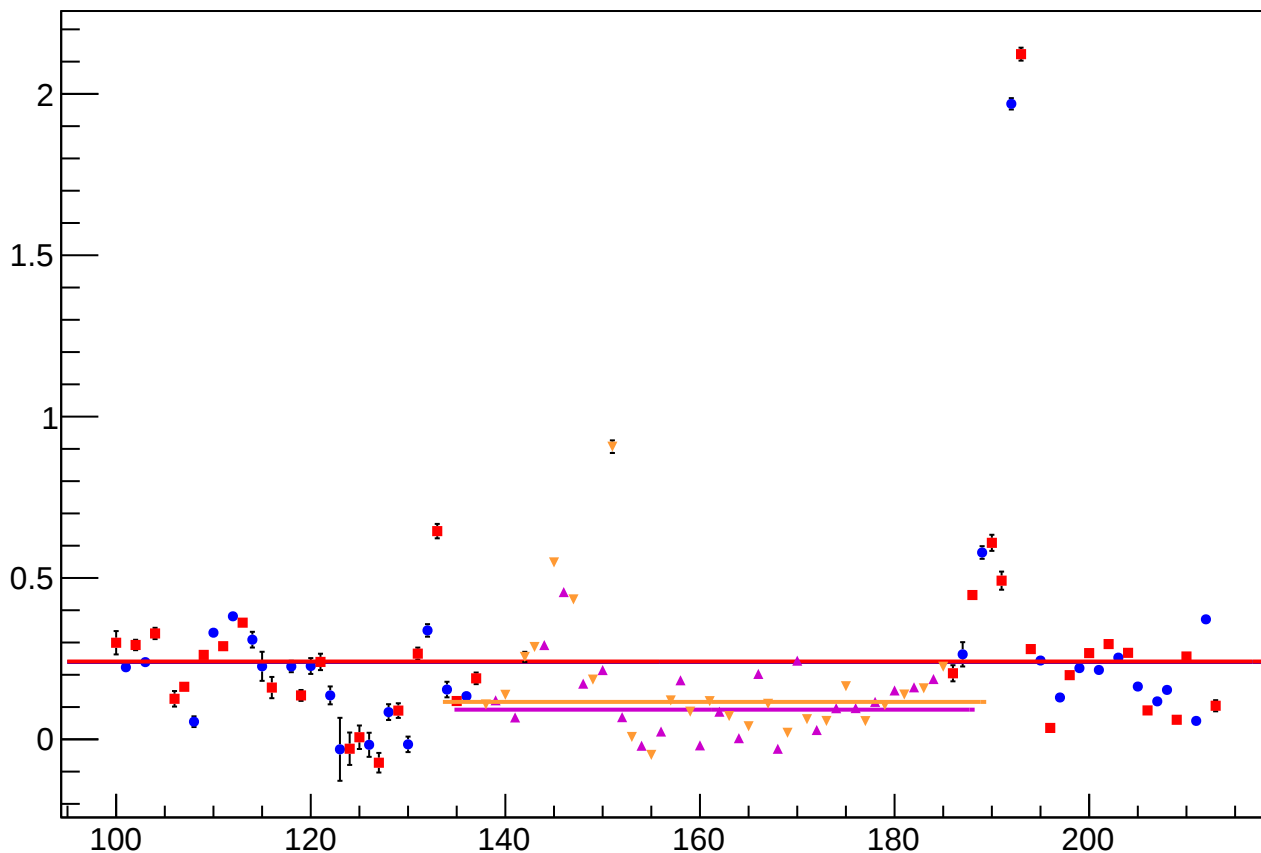
Right: -0.578 ± 0.038 χ^2/NDF : 8423.9/63

In: -0.975 ± 0.030 χ^2/NDF : 10575.4/52

Out: -1.125 ± 0.030 χ^2/NDF : 12332.1/58

All: -1.049 ± 0.021 χ^2/NDF : 22920.2/111

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.240 $\pm$ 0.002 χ^2 /NDF: 11297.7/29

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.241 $\pm$ 0.002 χ^2 /NDF: 11655.0/33

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

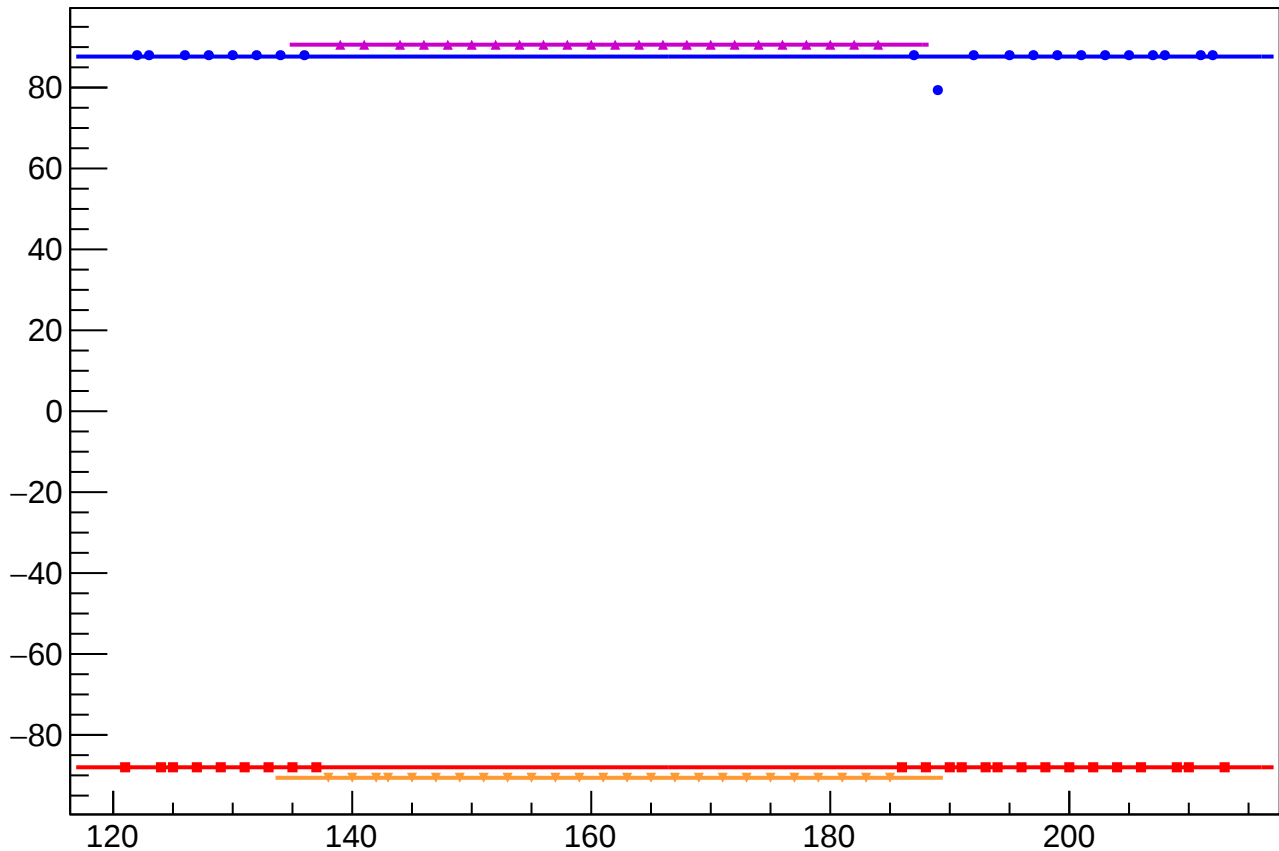
Right: 0.240 $\pm$ 0.002 χ^2 /NDF: 22952.9/63

In: 0.134 $\pm$ 0.001 χ^2 /NDF:17536.3/52

Out: 0.157 $\pm$ 0.001 χ^2 /NDF:17989.8/58

All: 0.145 $\pm$ 0.001 χ^2 /NDF: 35666.3/111

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.660+/-0.000

χ^2/NDF : 3646407389000388314517020444983296.0/20

Left Out: -90.599+/-0.000

χ^2/NDF : 6053403.0/24

Right Out: -88.001+/-0.000

χ^2/NDF : 944310.7/23

Left In: 90.599+/-0.000

χ^2/NDF : 5932436.0/22

Left: -2.410+/-0.000

χ^2/NDF : 30521213250005045

Right: -2.710+/-0.000

χ^2/NDF : 2052940275478838

In: 89.375+/-0.000

χ^2/NDF : 101621216564065217

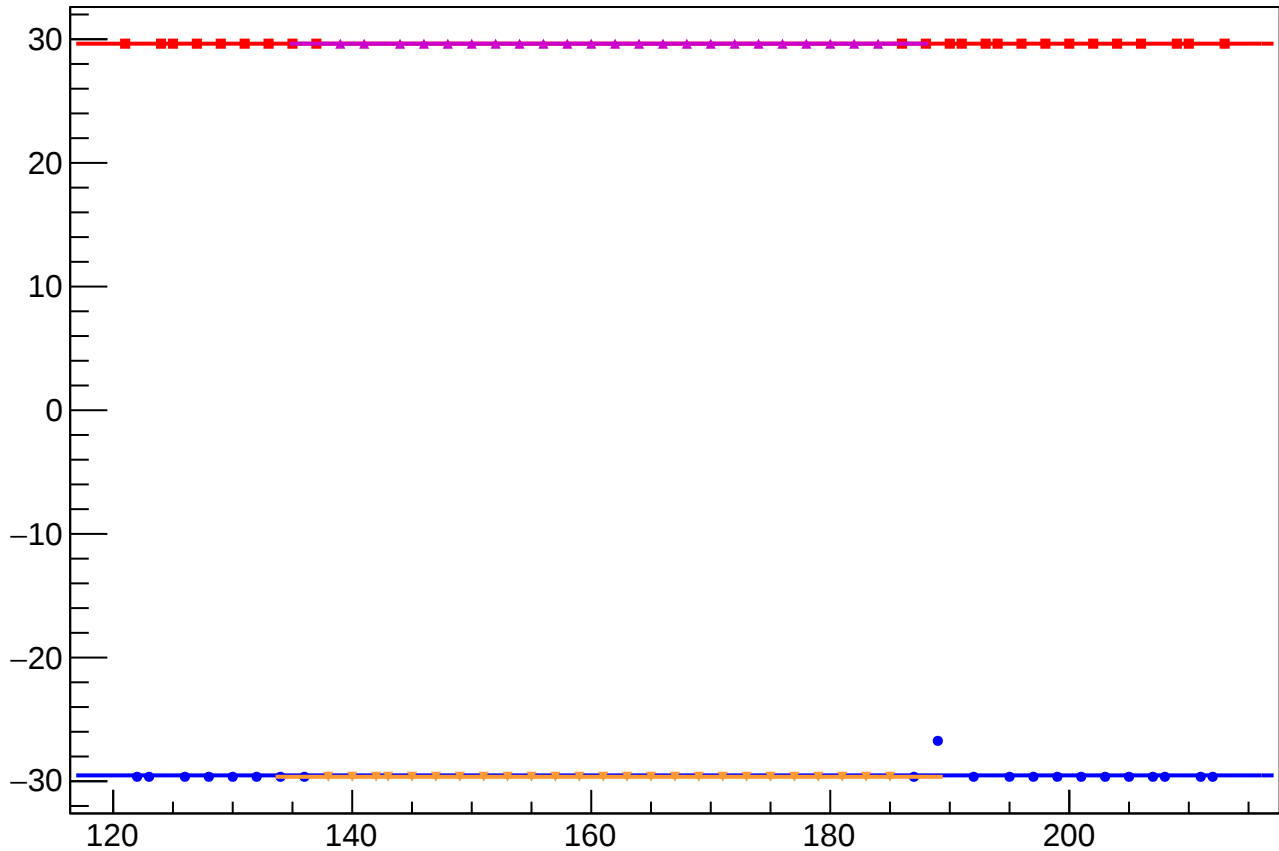
Out: -89.514+/-0.000

χ^2/NDF : 5387122730449320

All: -2.535+/-0.000

χ^2/NDF : 5105075503474

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.526+/-0.000

χ^2/NDF : 413685126520820016320911572467712.0/20

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

Right: 0.913+/-0.000 χ^2/NDF : 23290619149222155

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

In: 4.994+/-0.000 χ^2/NDF : 2641309237203915593

Right Out: 29.641+/-0.000

χ^2/NDF : 1572042.0/23

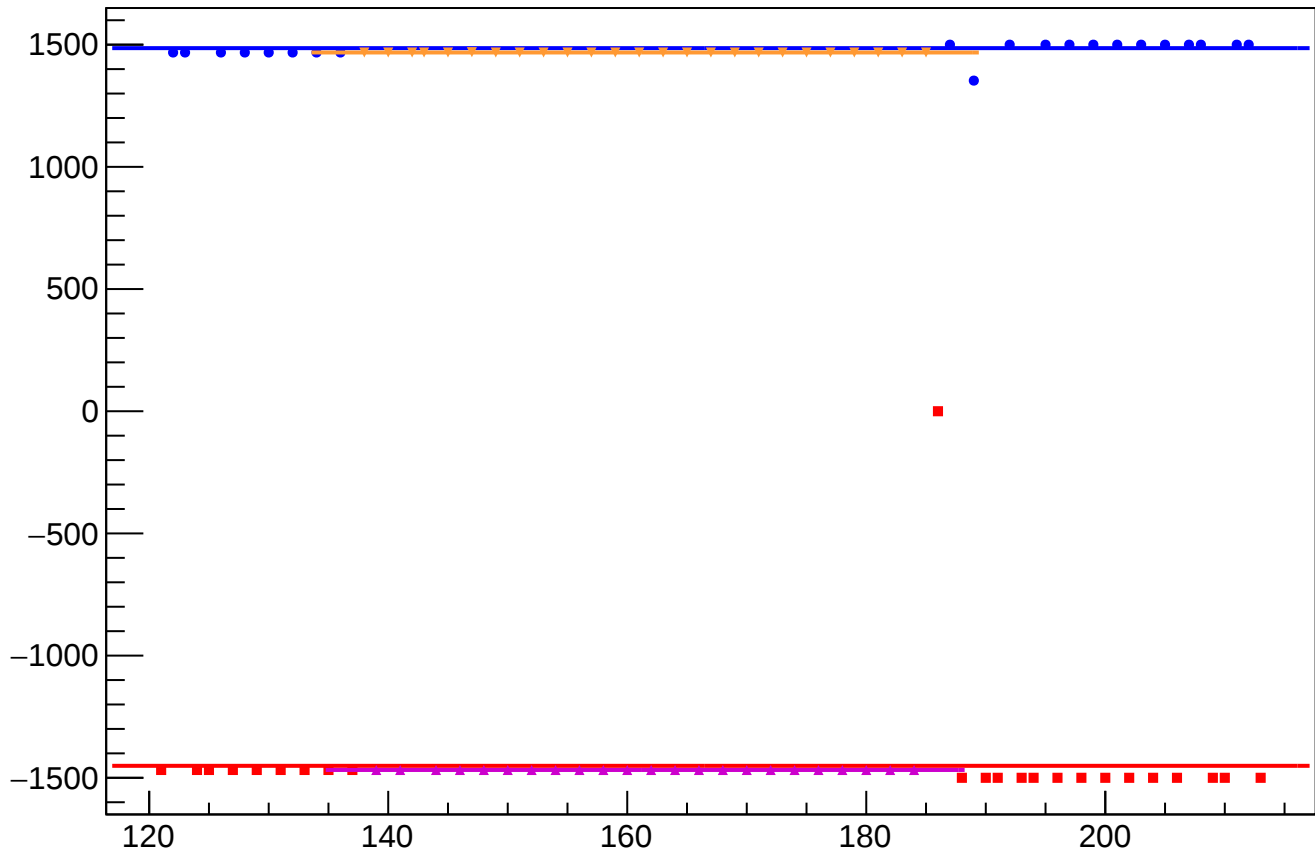
Out: -4.880+/-0.000 χ^2/NDF : 28036066743177126

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

All: -0.079+/-0.000 χ^2/NDF : 5600404249620

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1485.805+/-0.000

χ^2/NDF : 1189988754553235024551673705105719296.0/20

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1450.986+/-0.000

χ^2/NDF : 82532678826421470698971593650609324032.0/23

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

Left: 39.085+/-0.000 χ^2/NDF : 80133946076775322.0/20

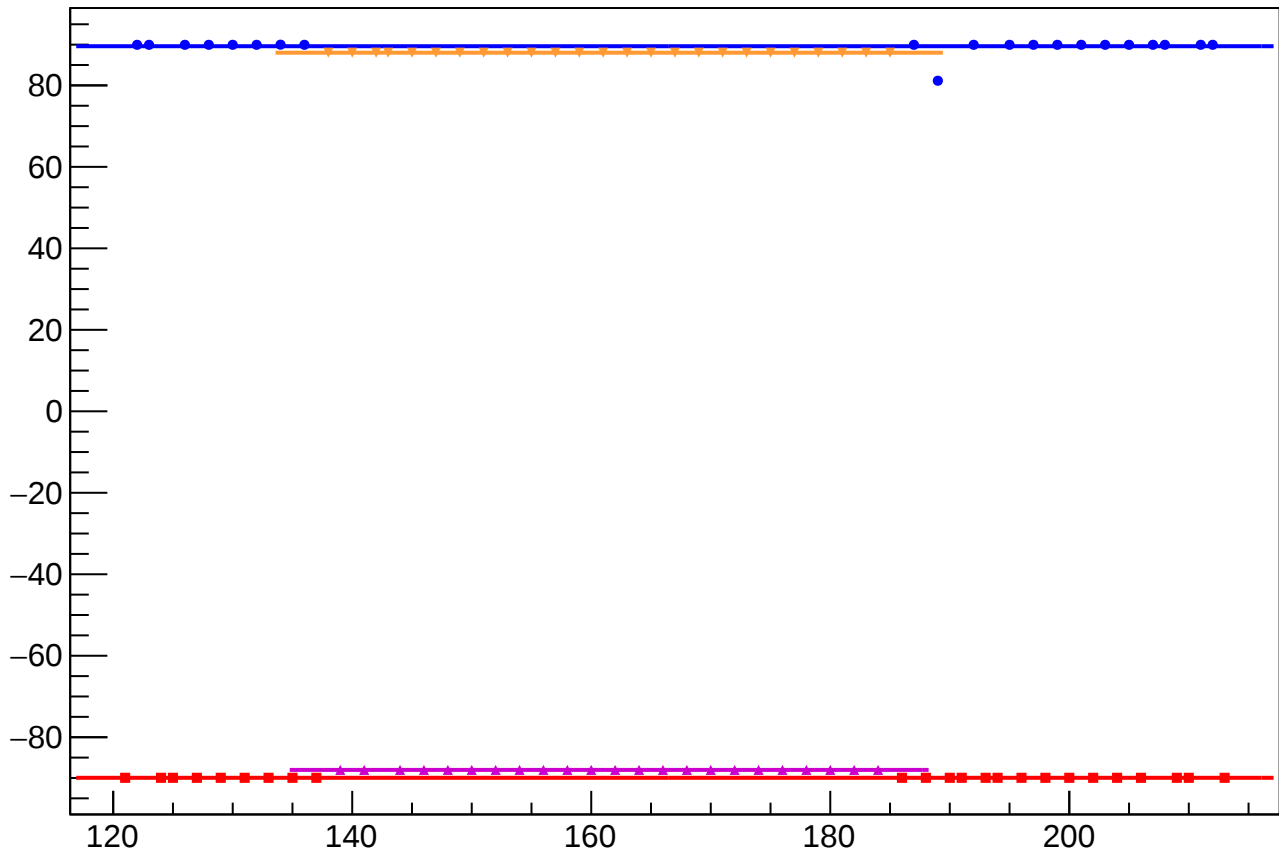
Right: -25.049+/-0.000 χ^2/NDF : 582084366514194.0/20

In: -237.561+/-0.000 χ^2/NDF : 6583178577798364.0/20

Out: 248.817+/-0.000 χ^2/NDF : 6880174403346002.0/20

All: 12.332+/-0.000 χ^2/NDF : 1384062247187.0/20

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.612+/-0.000

χ^2/NDF : 3811032122239518195235529414410240.0/20

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

Right: -2.770+/-0.000 χ^2/NDF : 2145352898266830

Left Out: 88.021+/-0.000

χ^2/NDF : 5326388.8/24

Right Out: -89.959+/-0.000

χ^2/NDF : 4131864.1/23

In: -14.026+/-0.000 χ^2/NDF : 23807317218706775

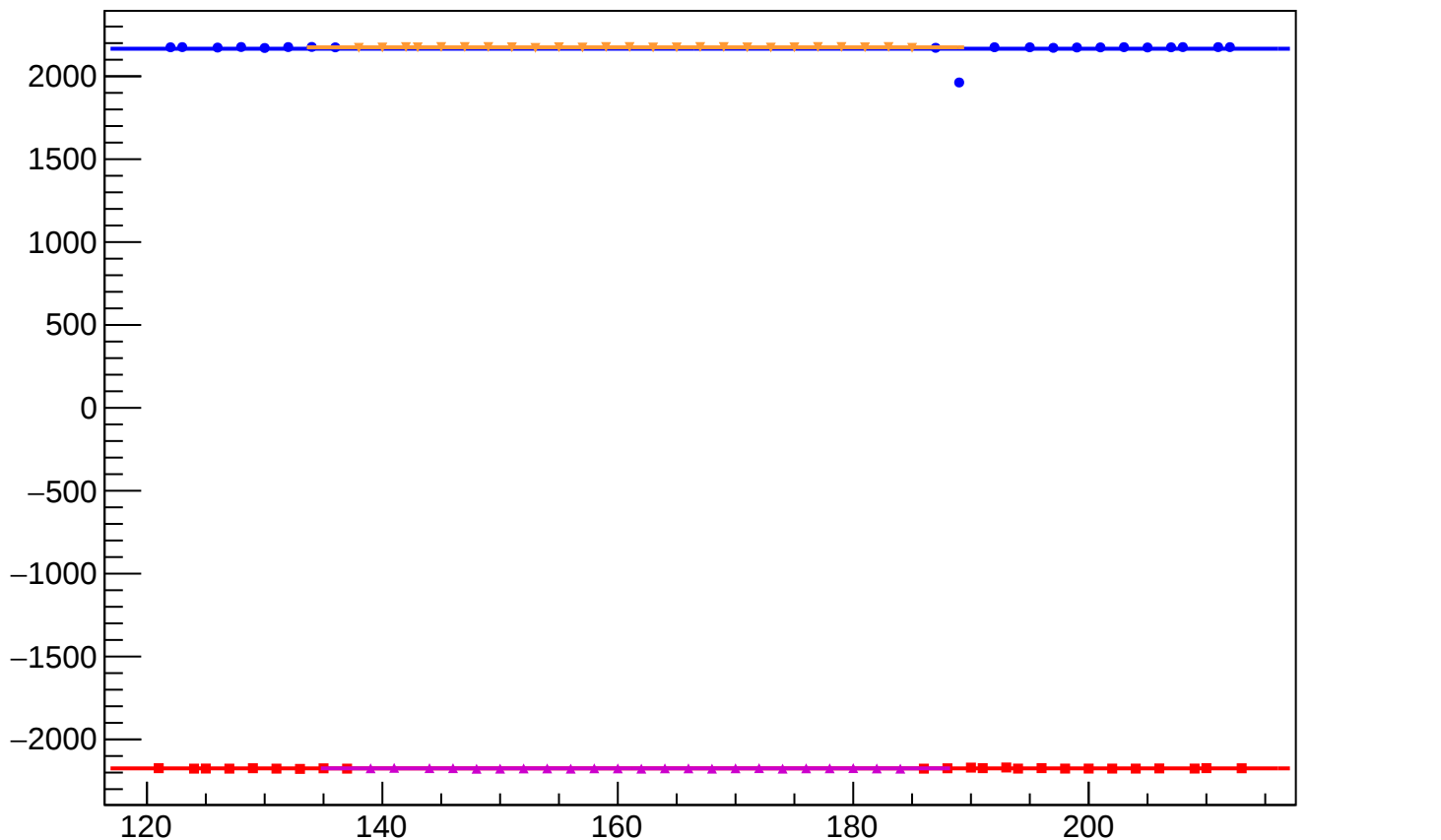
Out: 13.681+/-0.000 χ^2/NDF : 25271003945938984

Left In: -88.021+/-0.000

χ^2/NDF : 6084099.2/22

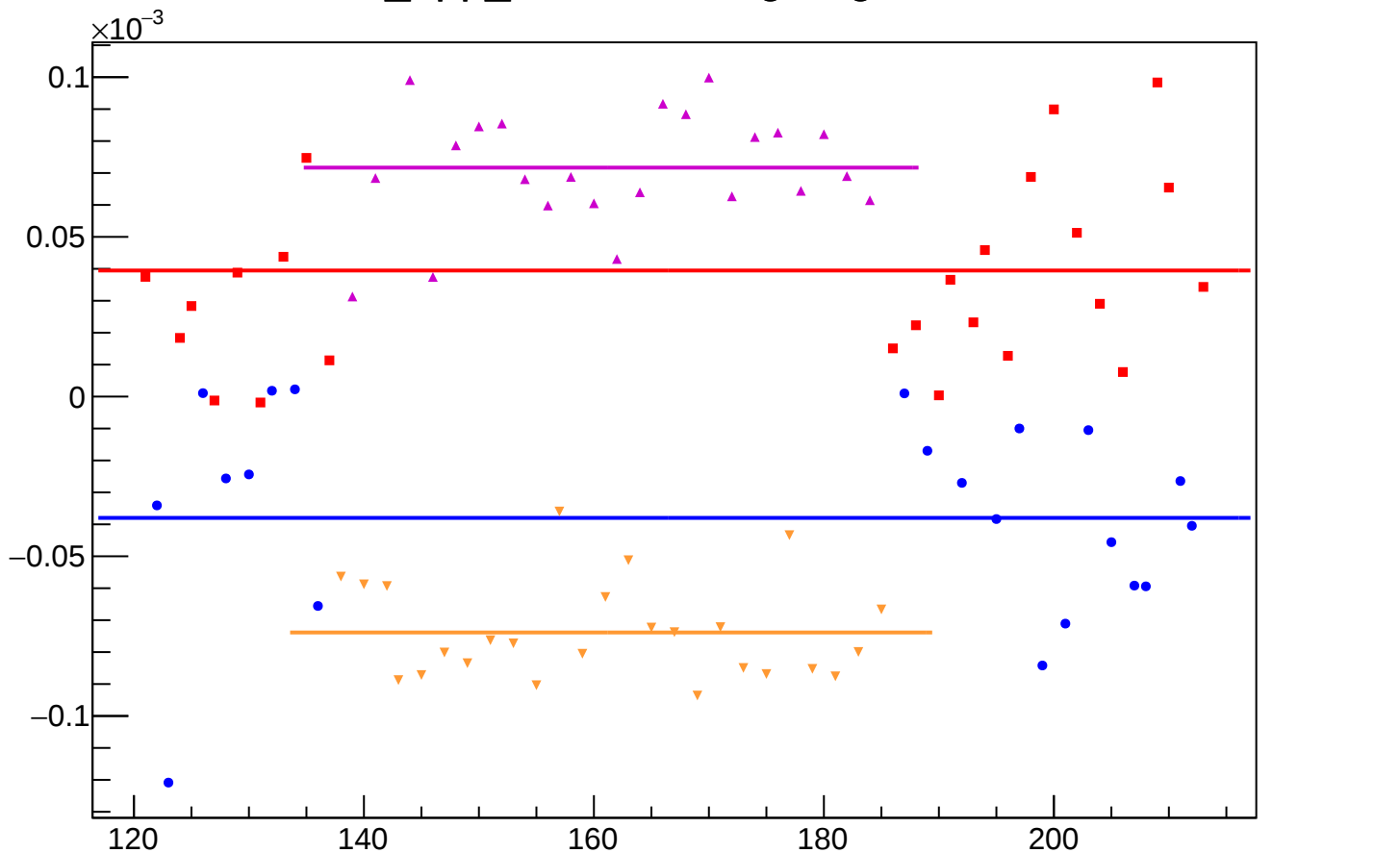
All: 0.210+/-0.000 χ^2/NDF : 50302662442407

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2166.236 $\pm$ 0.000 χ^2 /NDF: 2204062754163880645705584828003385344.0/20
 Left Out: 2174.622 $\pm$ 0.000 χ^2 /NDF: 5110578135476093110874911595823104.0/24
 Right Out: -2174.652 $\pm$ 0.000 χ^2 /NDF: 4869035444551815173204287437144064.0/23
 Left In: -2174.539 $\pm$ 0.000 χ^2 /NDF: 3400742562425168967494665391570944.0/22
 All: 5.813 $\pm$ 0.000 χ^2 /NDF: 30144272963775

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000

χ^2/NDF : 811985771508963850846208.0/20

Left: -0.000 $\pm$ 0.000

χ^2/NDF : 20702696564433151

Right: 0.000 $\pm$ 0.000

χ^2/NDF : 59201997167475286

Left Out: -0.000 $\pm$ 0.000

χ^2/NDF : 450400934180541069000704.0/24

In: 0.000 $\pm$ 0.000

χ^2/NDF : 1044593737018515560

Right Out: 0.000 $\pm$ 0.000

χ^2/NDF : 1118106833494739563577344.0/23

Out: -0.000 $\pm$ 0.000

χ^2/NDF : 11814498312282788

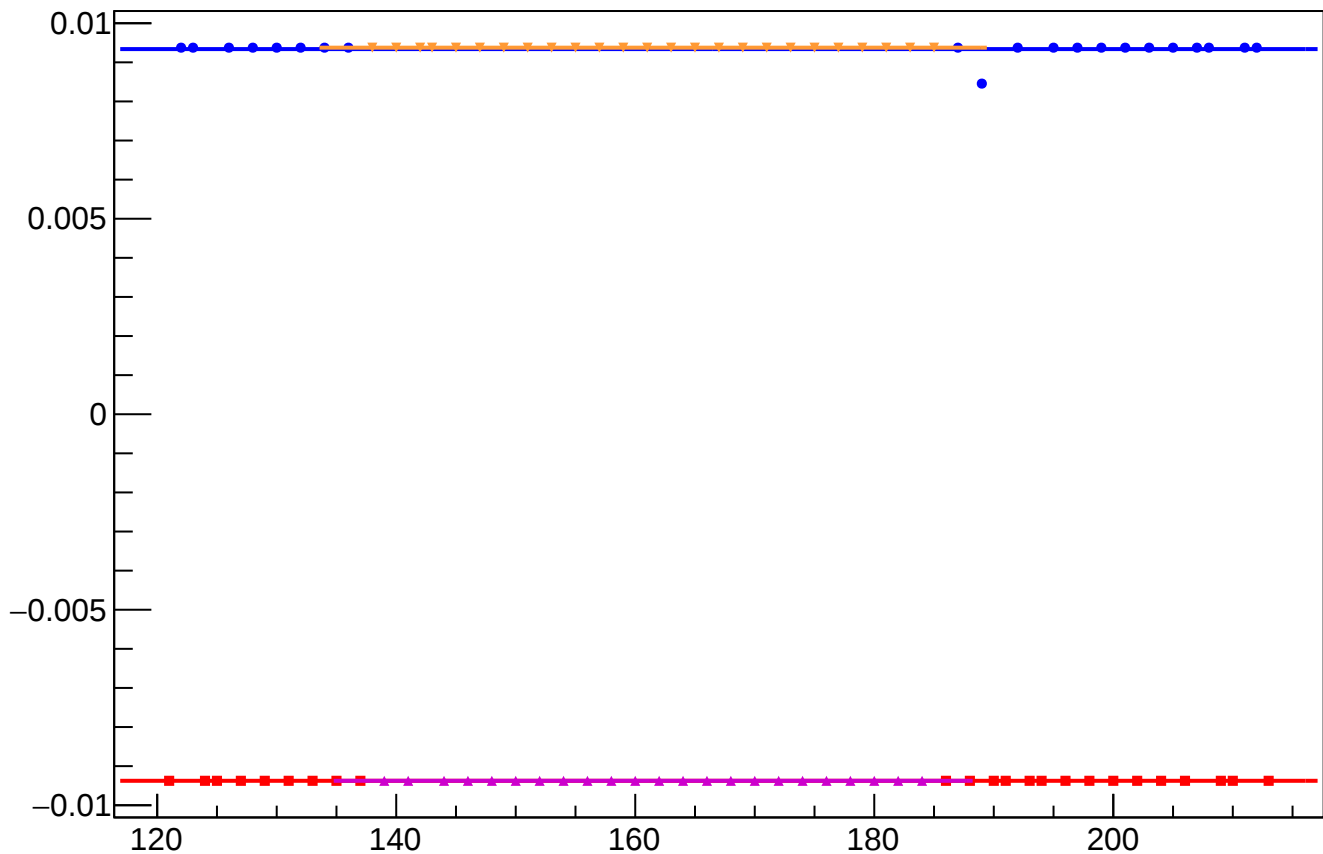
Left In: 0.000 $\pm$ 0.000

χ^2/NDF : 562166279020739416817664.0/22

All: -0.000 $\pm$ 0.000

χ^2/NDF : 2666000718582

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41384285007505429255684096.0/20

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/23

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 : 2329949904119078

In: -0.002+/-0.000

χ^2/NDF : 264231627529645582

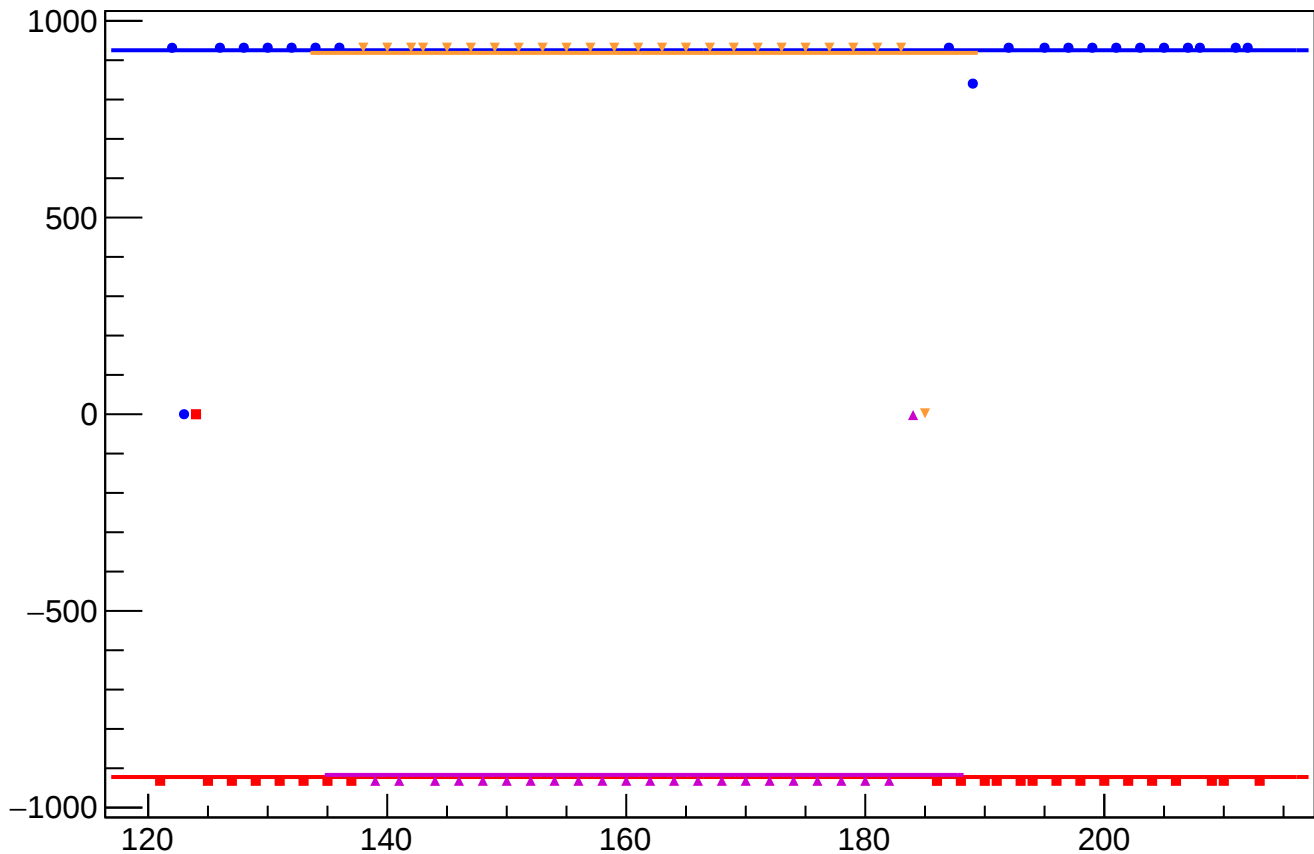
Out: 0.002+/-0.000

χ^2/NDF : 280467559070121280

All: 0.000+/-0.000

χ^2/NDF : 56025394863177

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 925.302+/-0.000

χ^2/NDF : 3843383083951428489807843014331072512.0/20

Left Out: 918.645+/-0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

Right Out: -922.274+/-0.000

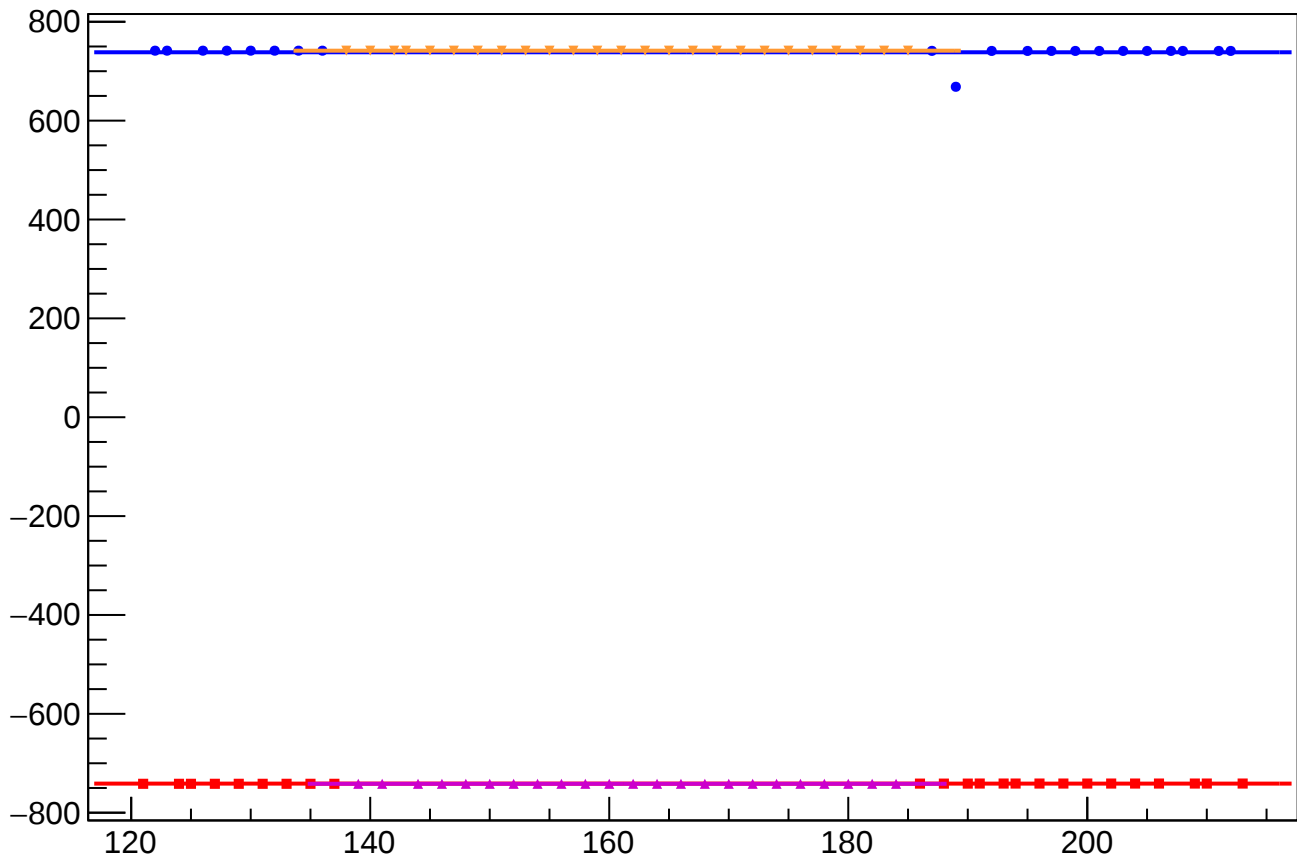
χ^2/NDF : 12030360361719133082199596576519749632.0/23

Left In: -916.890+/-0.000

χ^2/NDF : 2466789491747623125028694438888133632.0/22

Left: 25.295+/-0.000 χ^2/NDF : 31796385721824018
 Right: -25.197+/-0.000 χ^2/NDF : 228653585194535
 In: -149.508+/-0.000 χ^2/NDF : 2588659276554223
 Out: 149.725+/-0.000 χ^2/NDF : 2738675355863283
 All: 4.233+/-0.000 χ^2/NDF : 54701315945522

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 738.298+/-0.000 χ^2/NDF : 258719711850411744730847640022941696.0/20

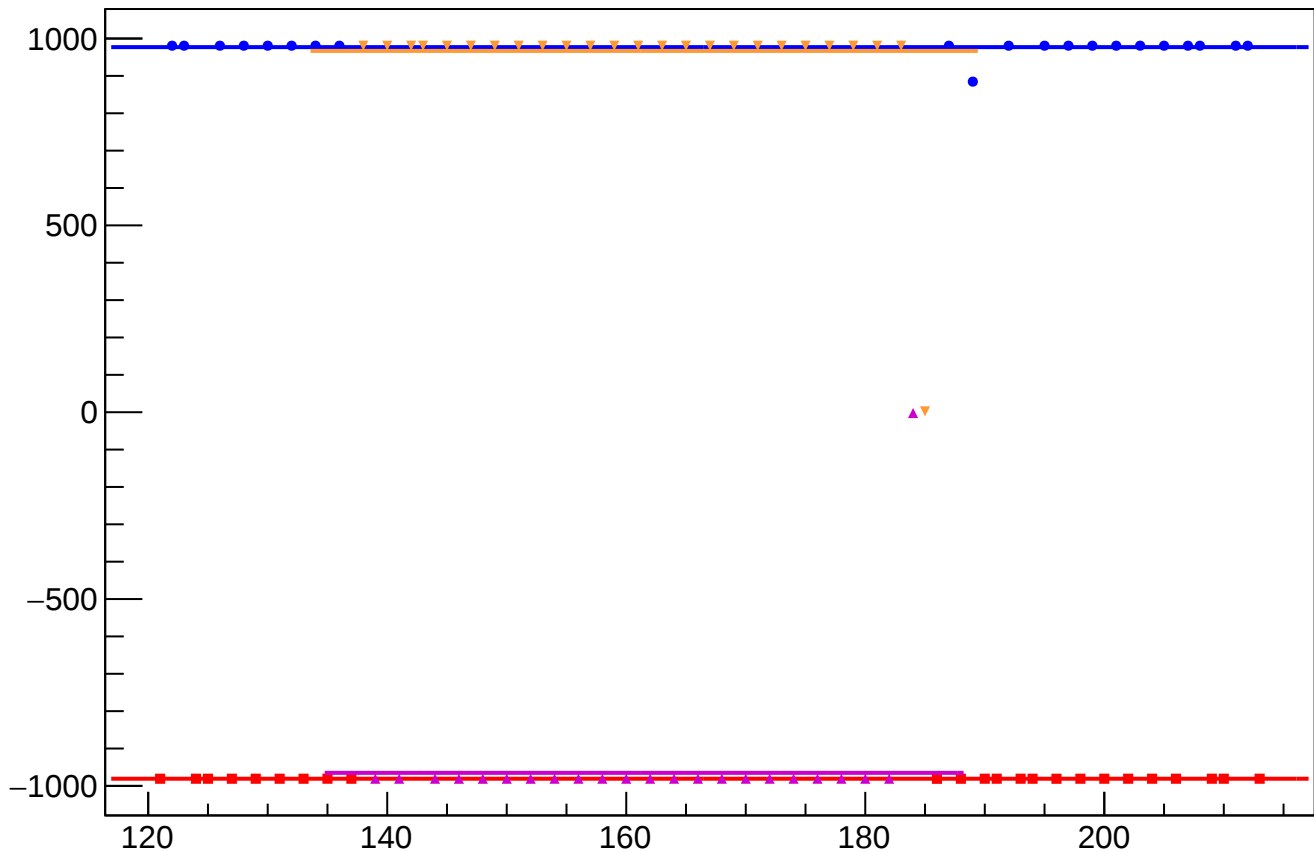
Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24

Right Out: -741.159+/-0.000 χ^2/NDF : 58943931632253003628767875170304.0/23

Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22

All: 1.980+/-0.000 χ^2/NDF : 35035489030140

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.018+/-0.000

χ^2/NDF : 453087079706721168430659337715712000.0/20

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.817+/-0.000

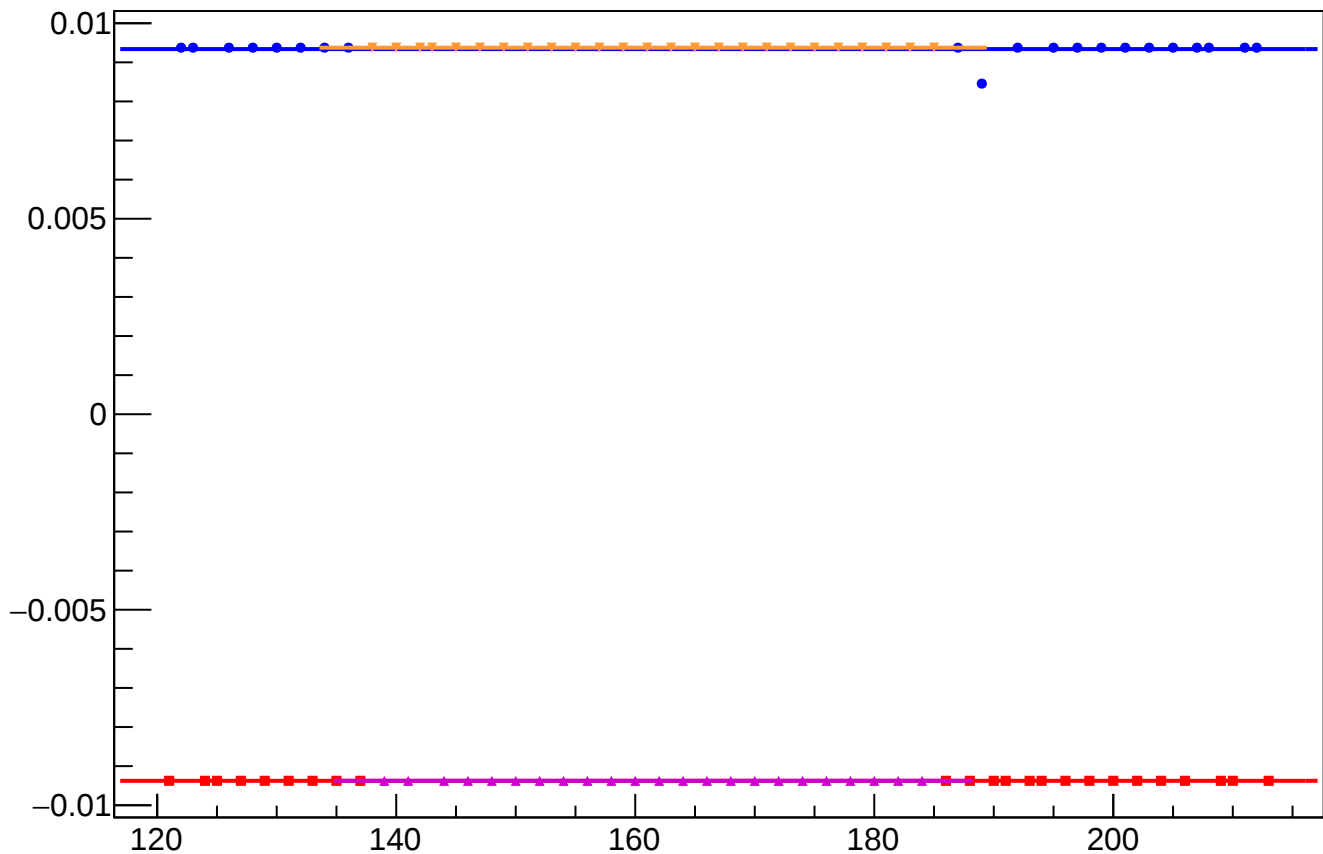
χ^2/NDF : 3501711074171675207762324750336.0/23

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 2.915+/-0.000 χ^2/NDF : 60779972700518

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41384285007505429255684096.0/20

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/23

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 : 2329949904119078

In: -0.002+/-0.000

χ^2/NDF : 264231627529645582

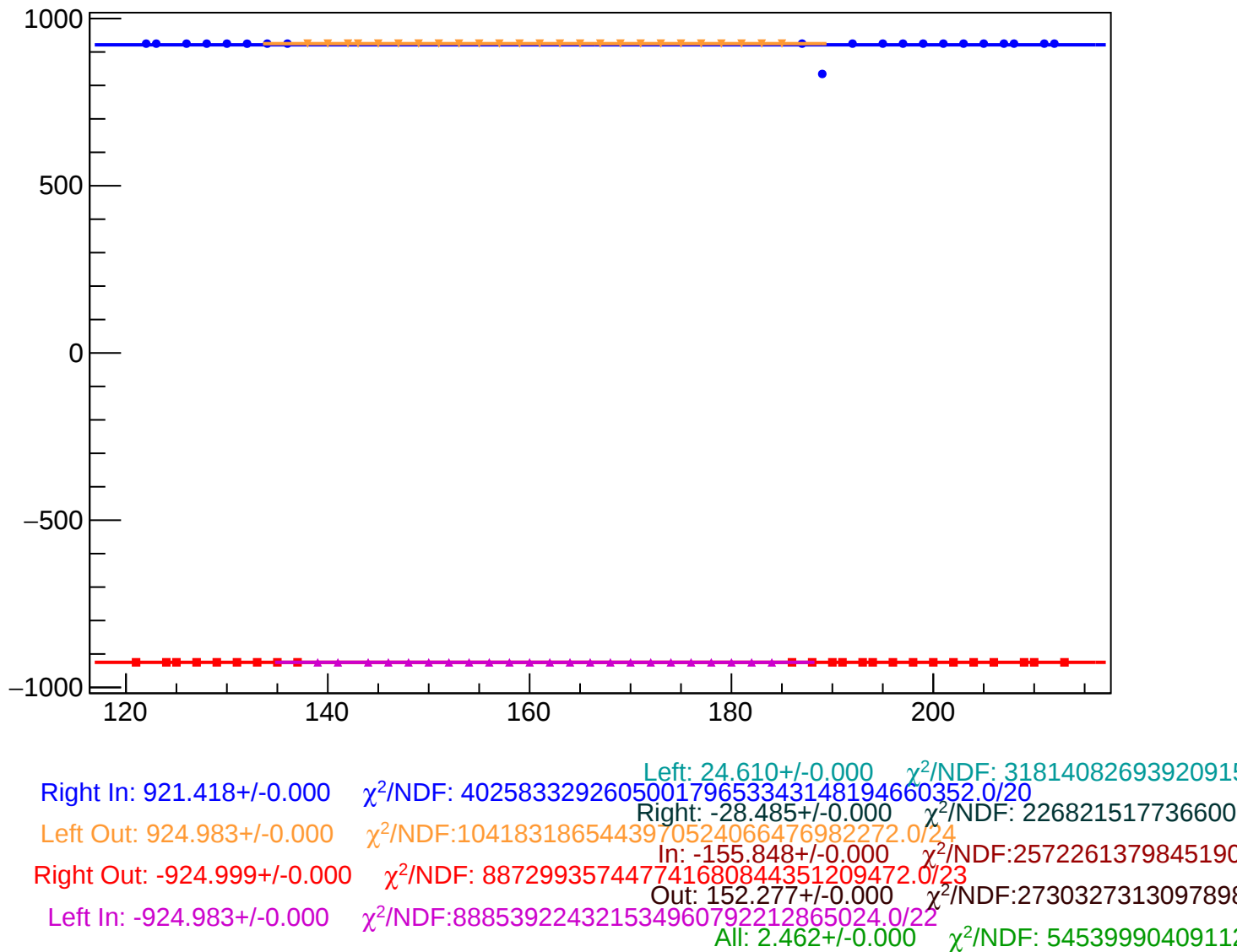
Out: 0.002+/-0.000

χ^2/NDF : 280467559070121280

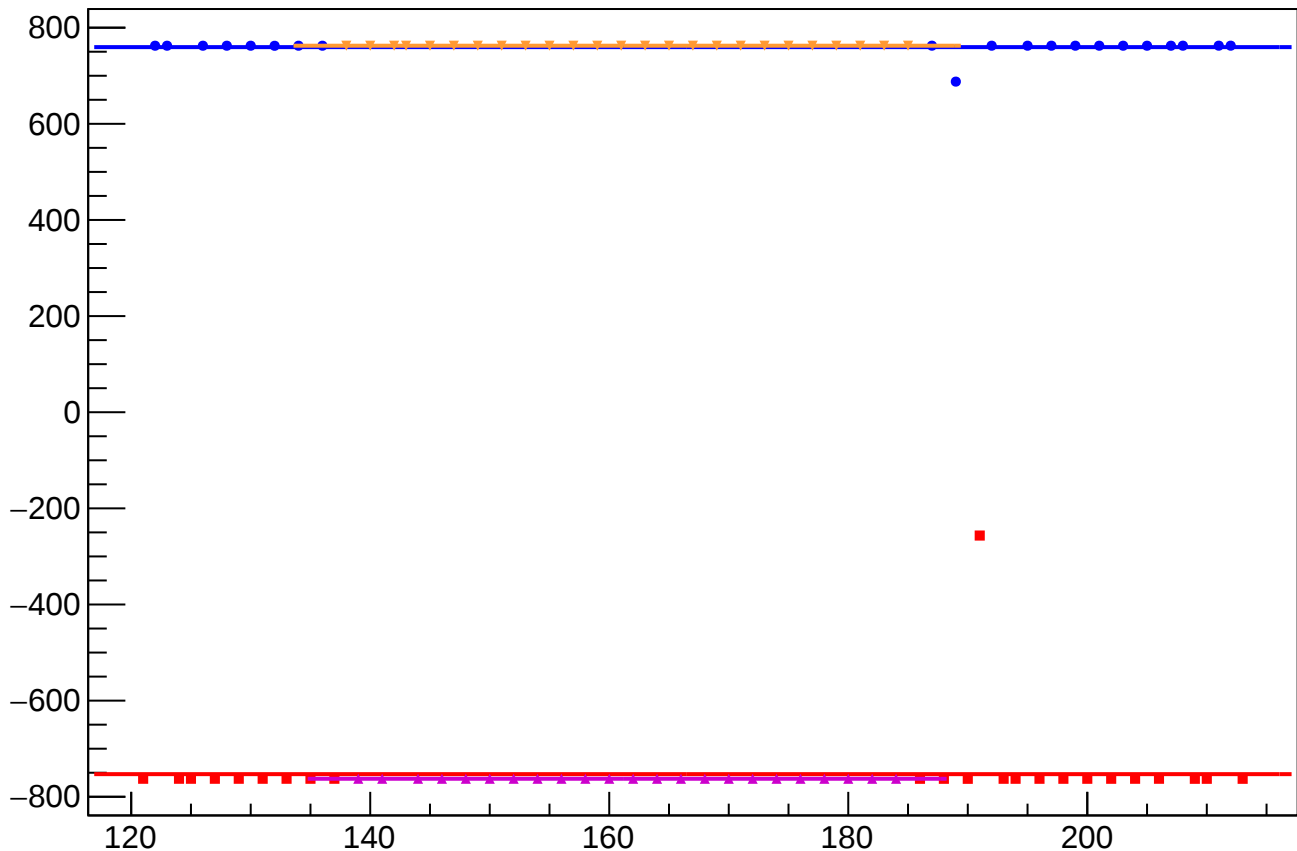
All: 0.000+/-0.000

χ^2/NDF : 56025394863177

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 759.575+/-0.000

χ^2/NDF : 273433017952428467723136544333103104.0/20

Left Out: 762.518+/-0.000

χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -752.933+/-0.000

χ^2/NDF : 6530215535864048243498307768161402880.0/23

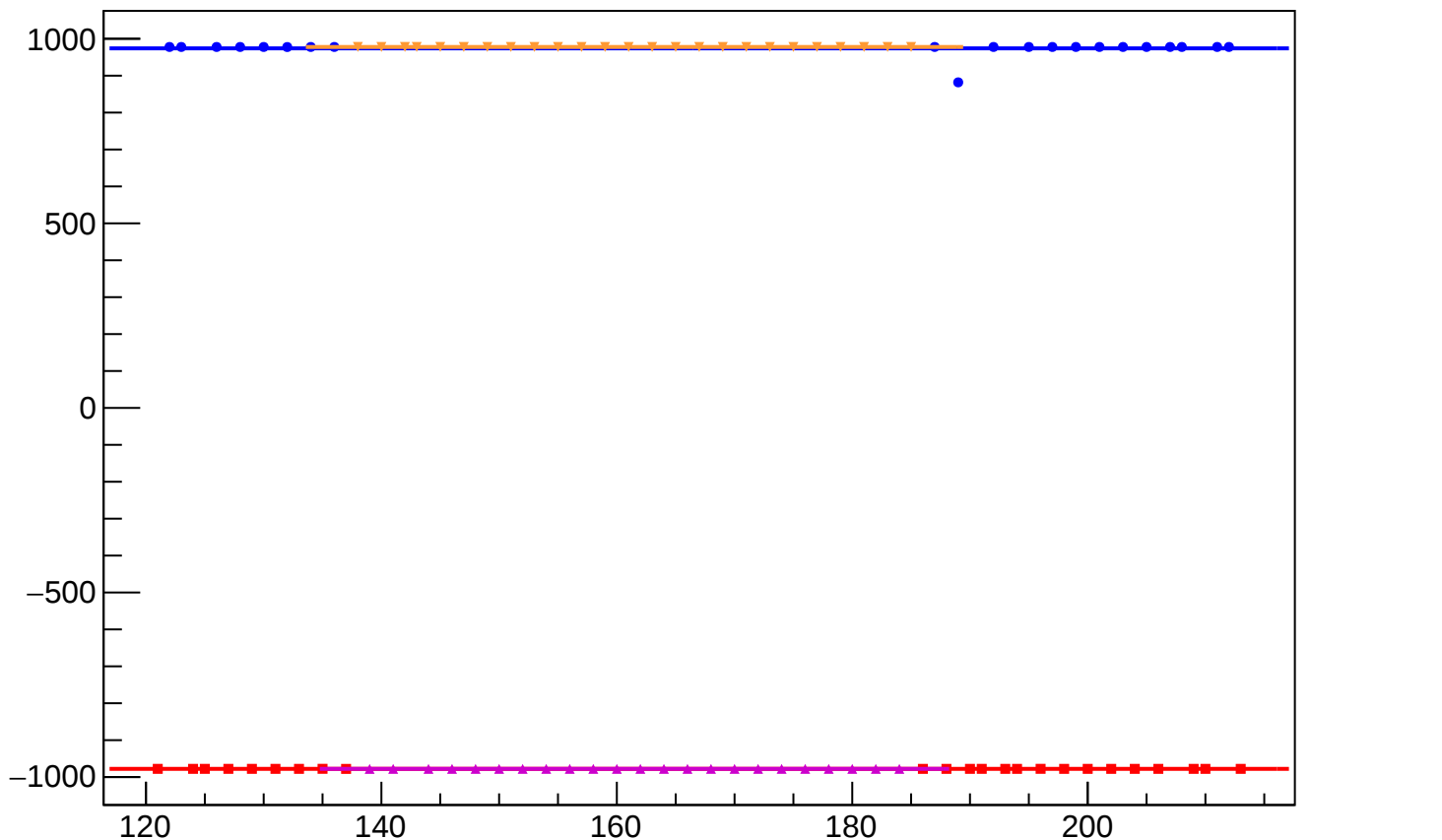
Left In: -762.519+/-0.000

χ^2/NDF : 629058355419214408155297480704.0/22

All: 4.088+/-0.000

χ^2/NDF : 36928817200373

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 973.980+/-0.000

χ^2/NDF : 449978160365898628670003767305830400.0/20

Left Out: 977.738+/-0.000

χ^2/NDF : 1154150409979077132991401558016.0/24

Right Out: -977.756+/-0.000

χ^2/NDF : 1850371035992917768149776990208.0/23

Left In: -977.735+/-0.000

χ^2/NDF : 976503887937607318263199432704.0/22

Left: 26.015+/-0.000 χ^2/NDF : 35546397150663117

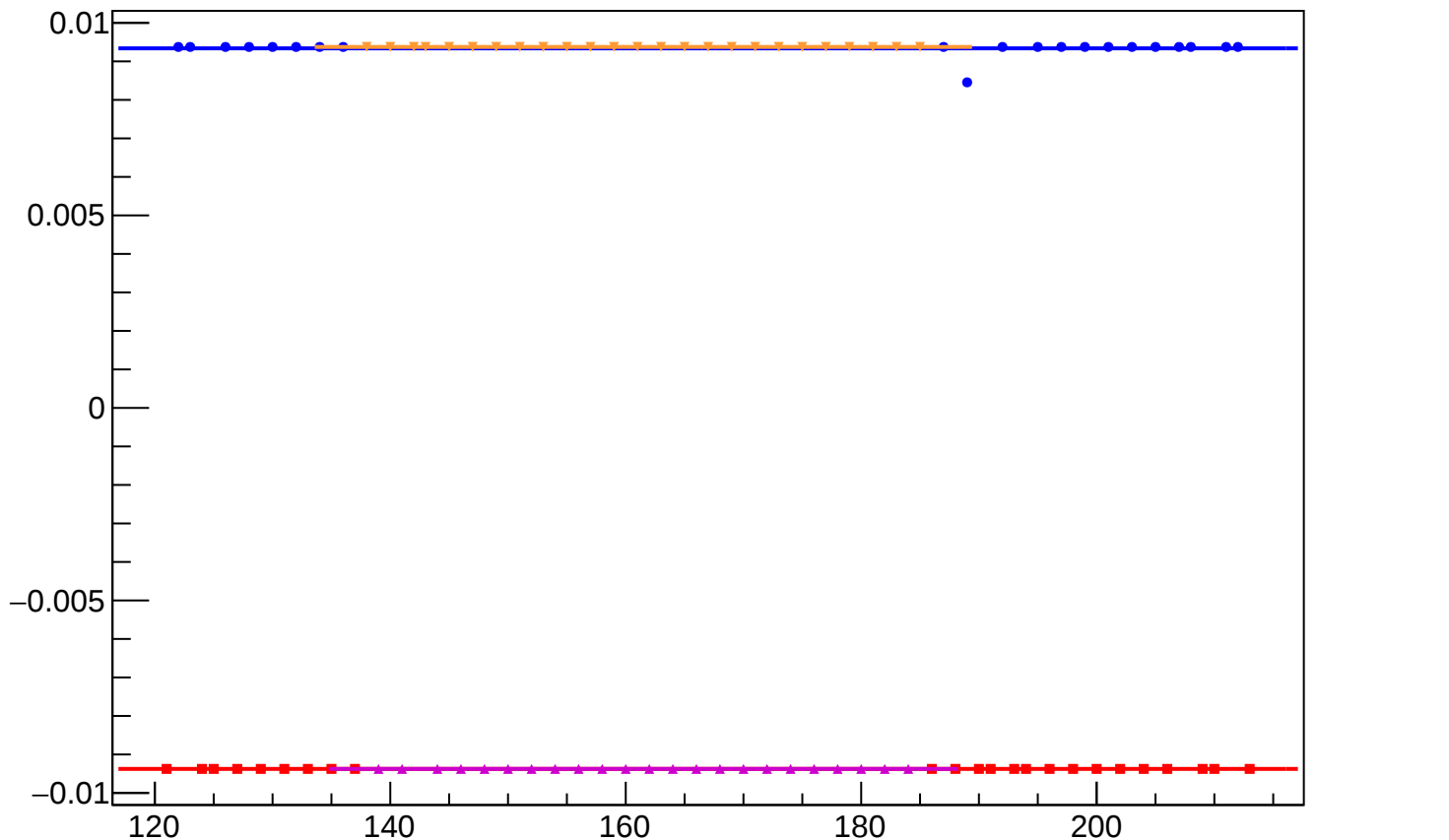
Right: -30.105+/-0.000 χ^2/NDF : 253435443617131

In: -164.730+/-0.000 χ^2/NDF : 2874060666778358

Out: 160.961+/-0.000 χ^2/NDF : 3050655420232928

All: 2.605+/-0.000 χ^2/NDF : 60938826508582

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41384285007505429255684096.0/20

Left: 0.000+/-0.000 χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000 χ^2/NDF : 2329949904119078

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.002+/-0.000 χ^2/NDF : 264231627529645582

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/23

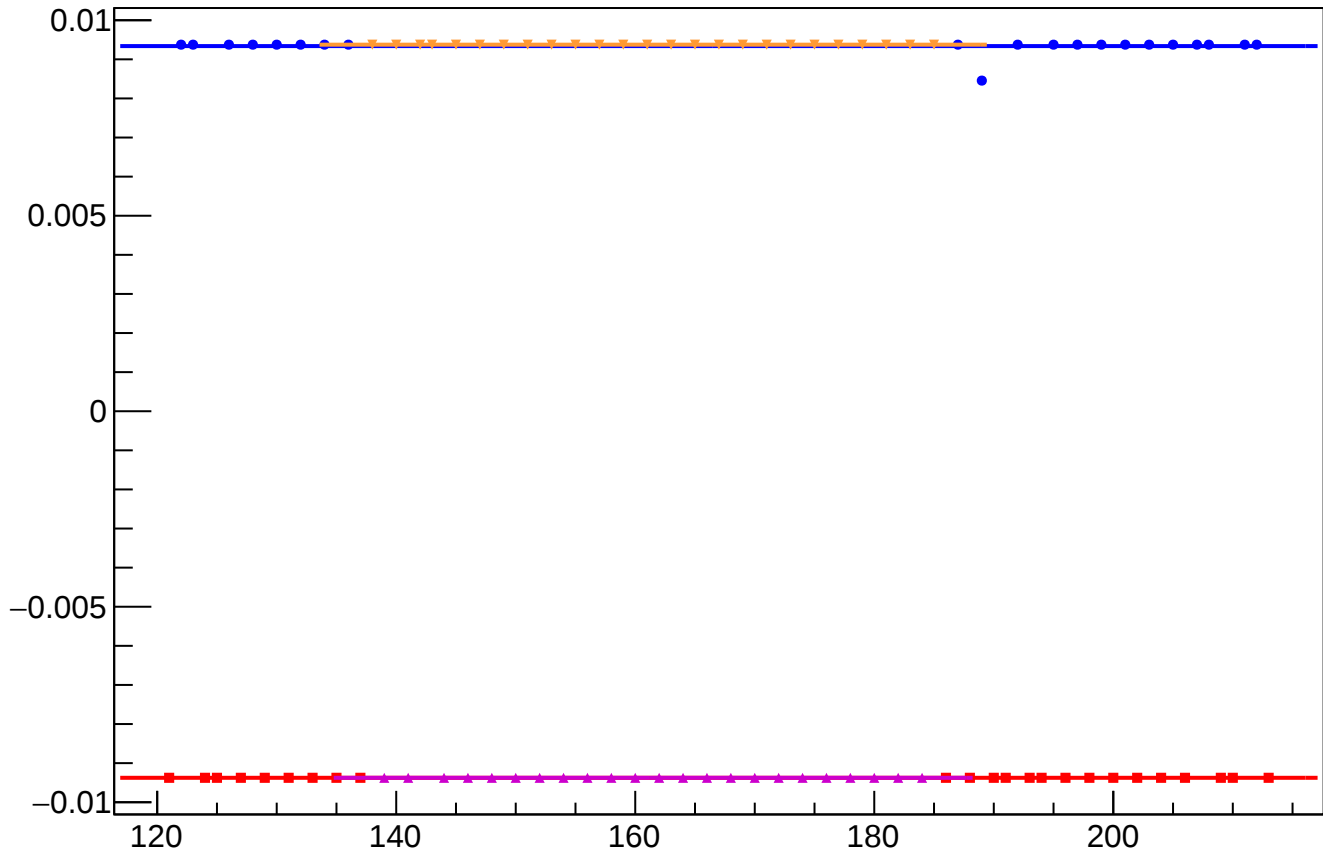
Out: 0.002+/-0.000 χ^2/NDF : 280467559070121280

Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: 0.000+/-0.000 χ^2/NDF : 56025394863177

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41384285007505429255684096.0/20

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/23

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 : 2329949904119078

In: -0.002+/-0.000

χ^2/NDF : 264231627529645582

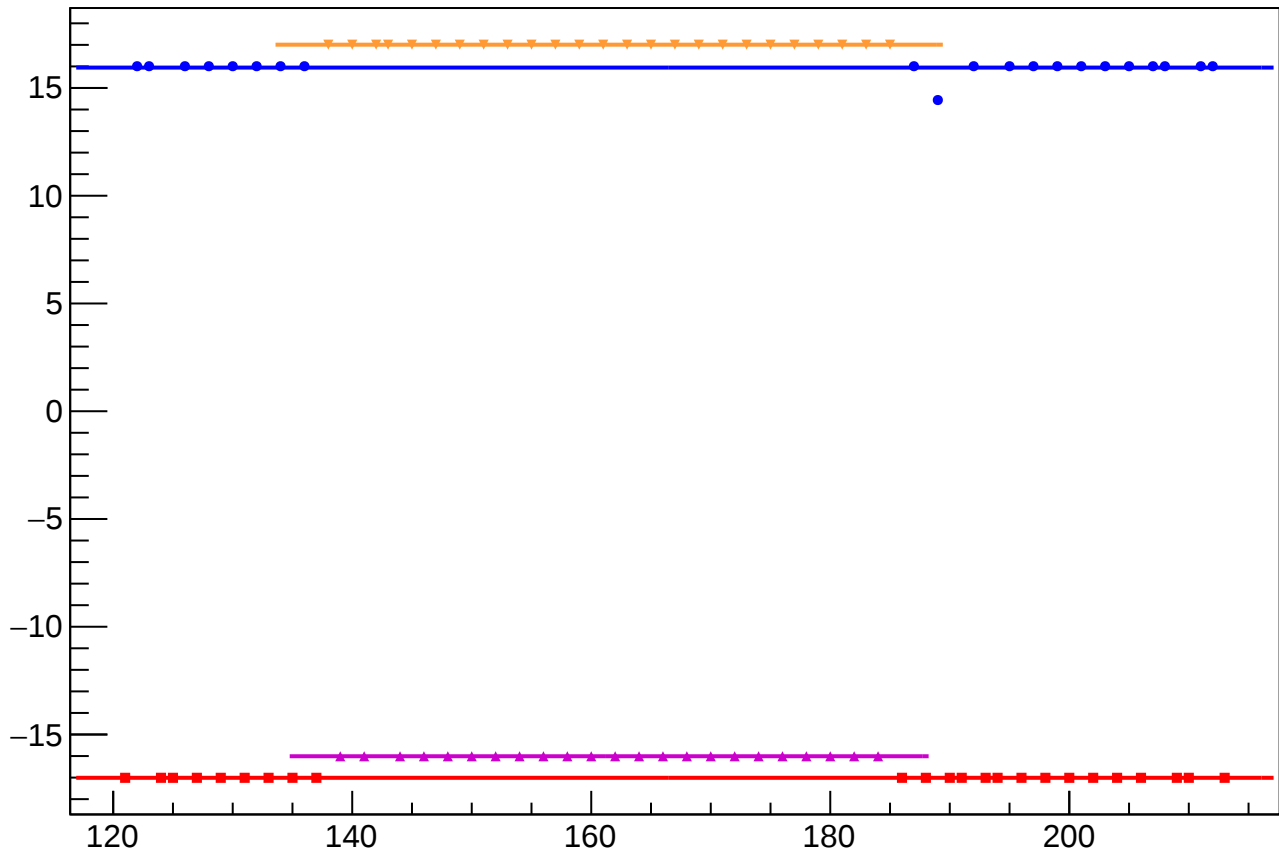
Out: 0.002+/-0.000

χ^2/NDF : 280467559070121280

All: 0.000+/-0.000

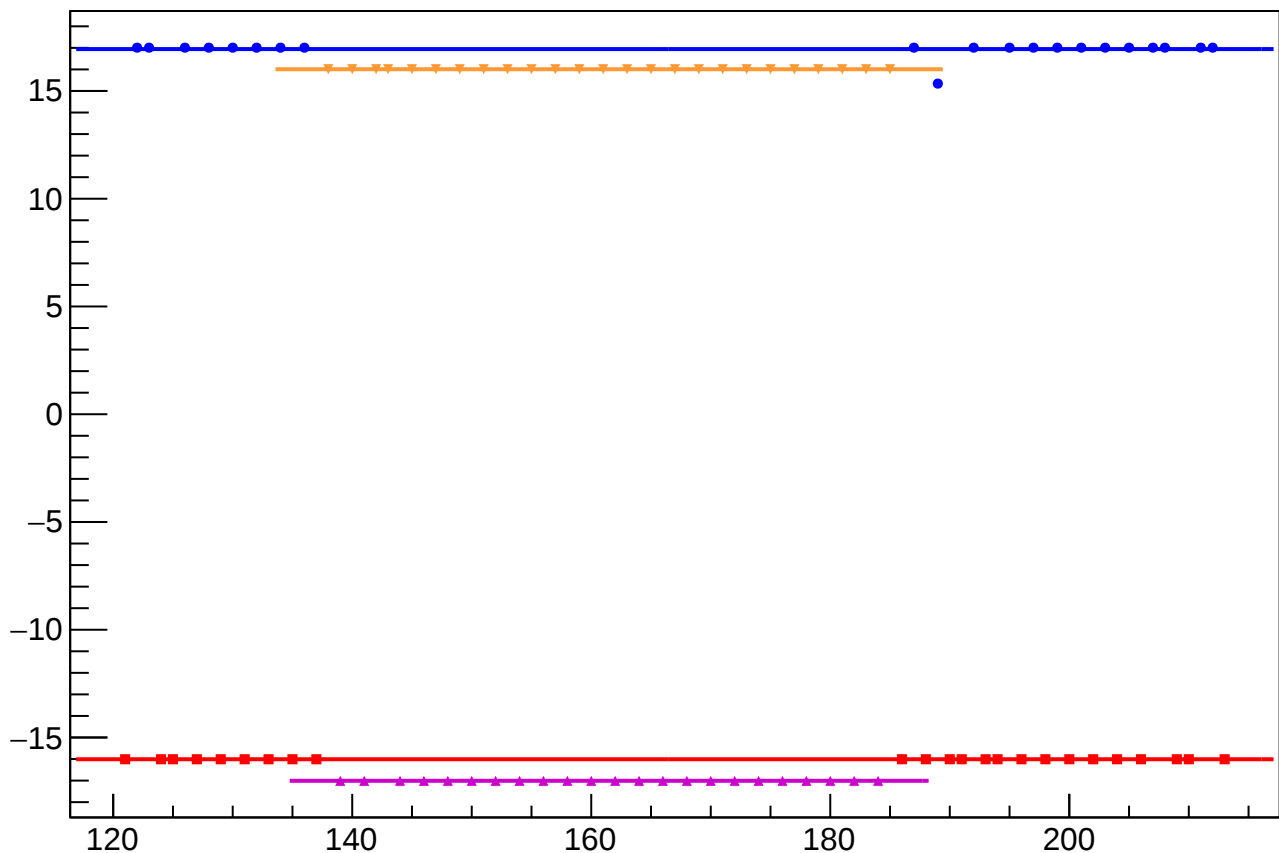
χ^2/NDF : 56025394863177

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



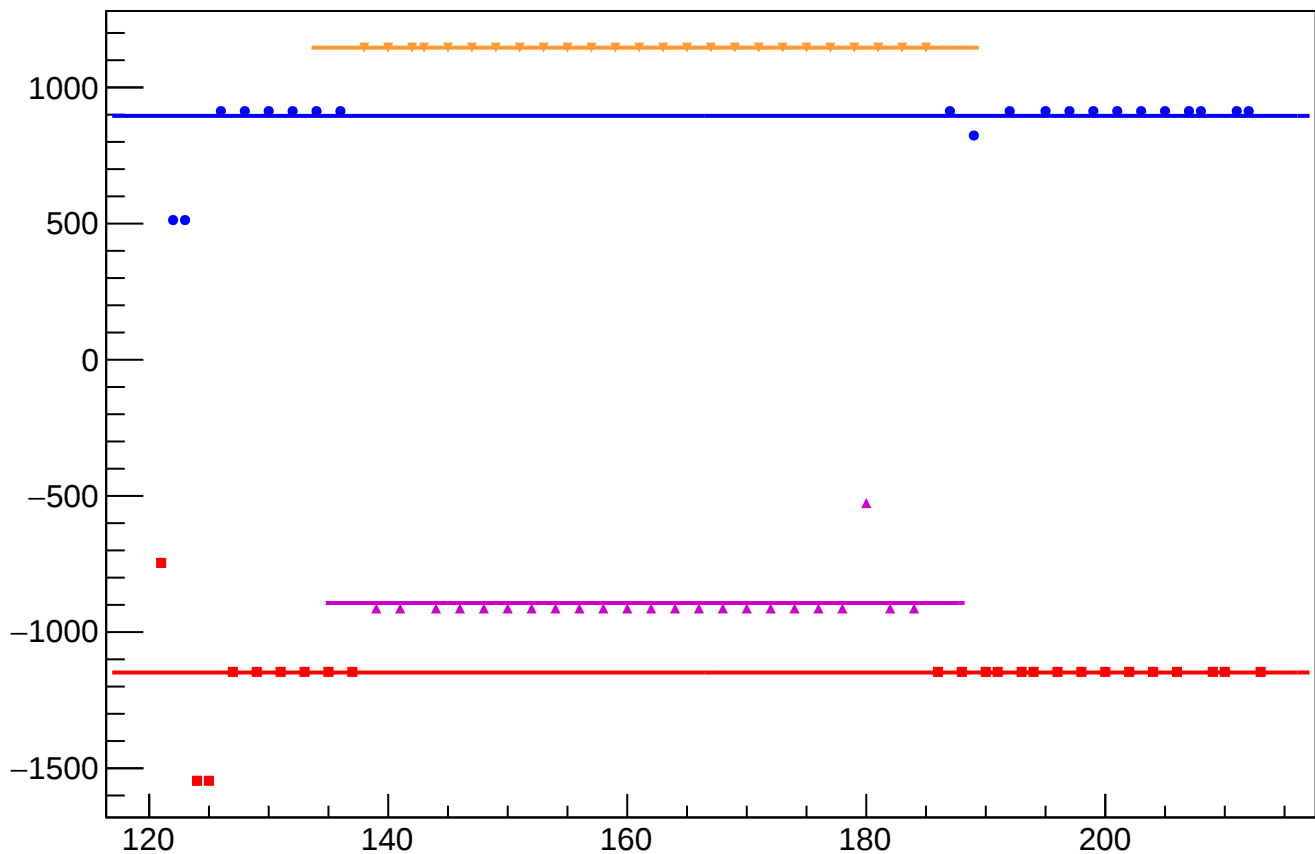
Right In: 15.946 $\pm$ 0.000 χ^2 /NDF: 120579679716264652590370380578816.0/20
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 17249027800232680683995136.0/23
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.069 $\pm$ 0.000 χ^2 /NDF: 16588869896299

IGL1I00OD16_16_mean vs Slug, Sign Corrected



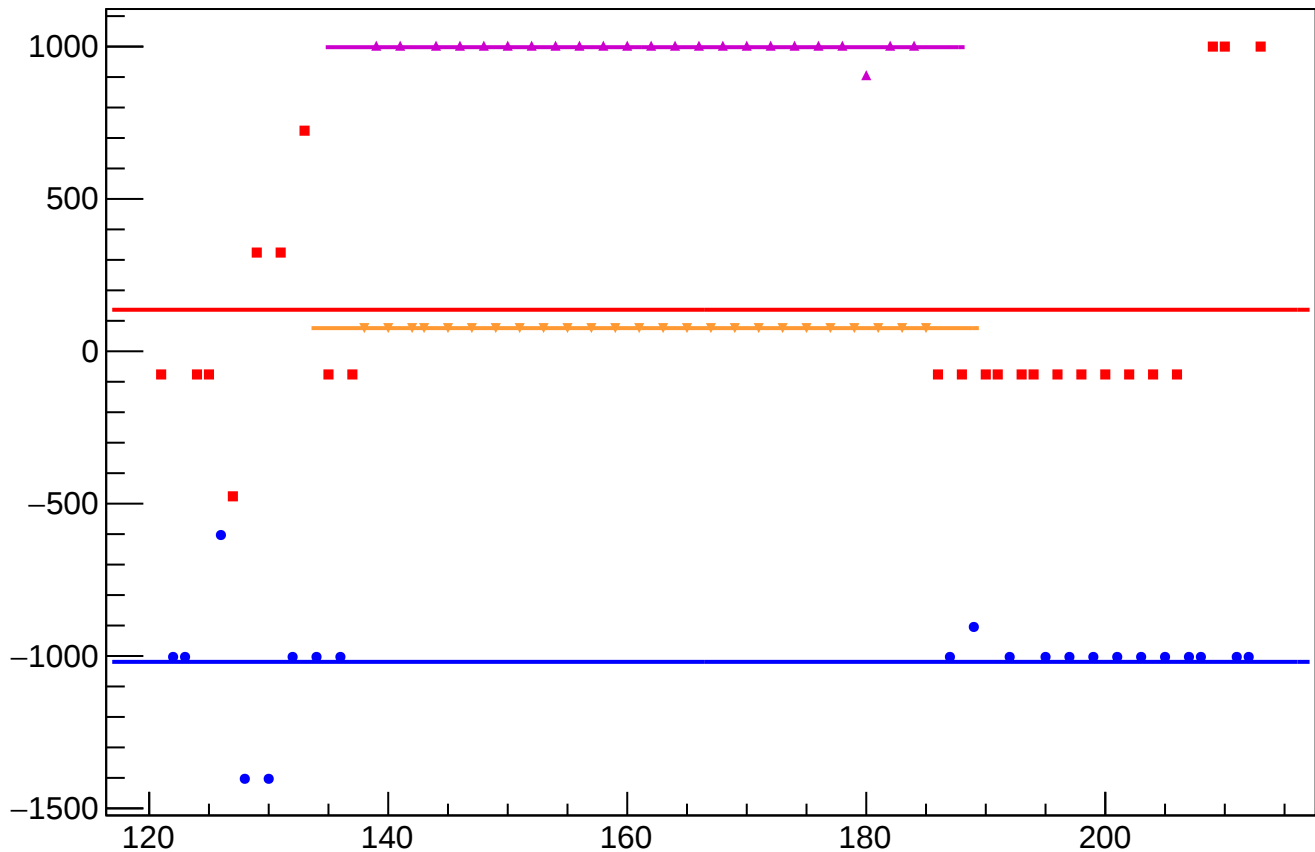
Right In: 16.944+/-0.000	χ^2/NDF : 136228603722375205749811620872192.0/20	Left: 0.042+/-0.000	χ^2/NDF : 994312337700629058
Left Out: 16.009+/-0.000	χ^2/NDF : 89740.8/24	Right: -0.009+/-0.000	χ^2/NDF : 7224686756410866
Right Out: -16.009+/-0.000	χ^2/NDF : 249242.2/23	In: -2.658+/-0.000	χ^2/NDF : 860664833584361318
Left In: -17.009+/-0.000	χ^2/NDF : 115033472633445654986752.0/22	Out: 2.537+/-0.000	χ^2/NDF : 813554414119847644
		All: 0.021+/-0.000	χ^2/NDF : 17167851423877

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 895.542+/-0.000 χ^2/NDF : 7214856072287733164750300960559988736.0/20
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1148.345+/-0.000 χ^2/NDF : 13753193684891575041247788327038353408.0/23
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 24.460+/-0.000 χ^2/NDF : 6827001900424

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1019.218+/-0.000

χ^2/NDF : 23352225669452507252068251611028258816.0/20

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: 136.324+/-0.000

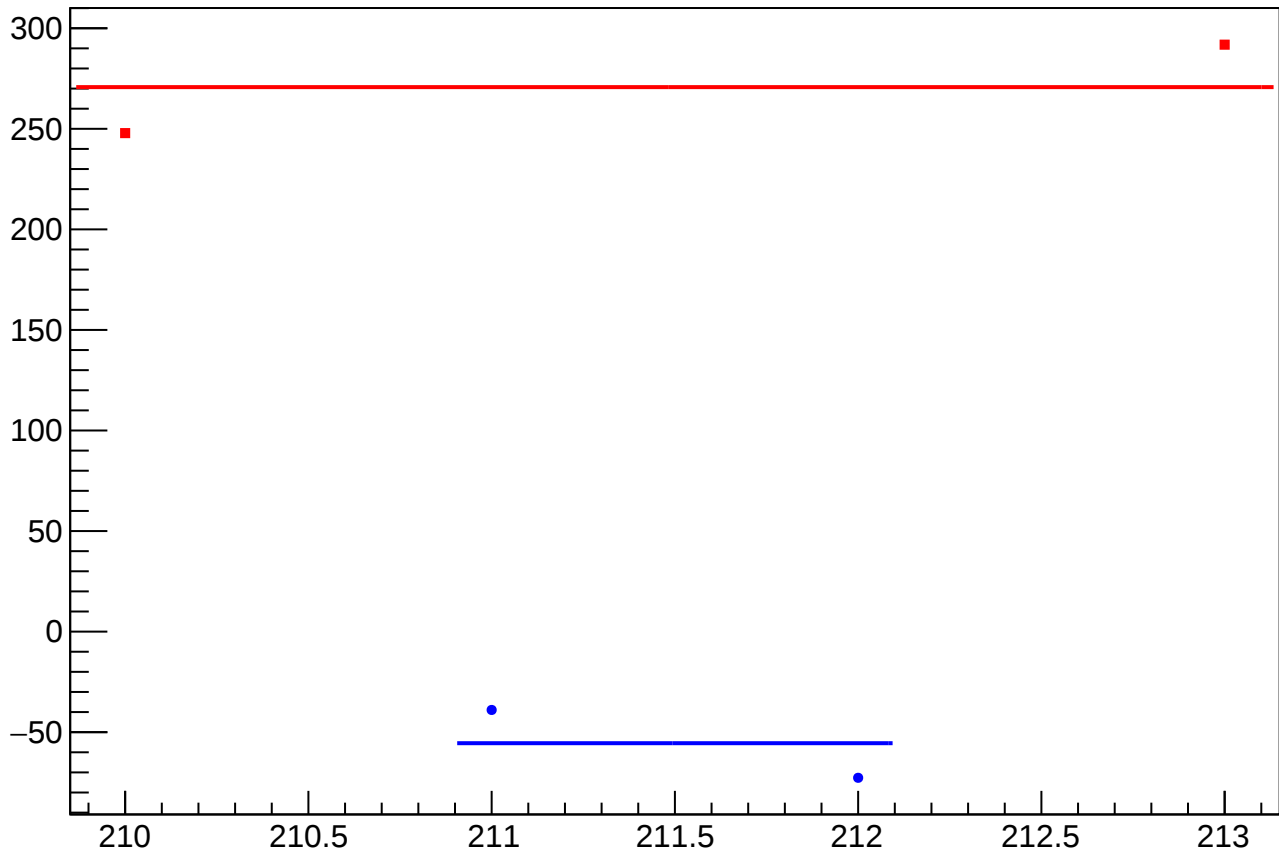
χ^2/NDF : 245769535234221074351283229545319104512.0/23

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

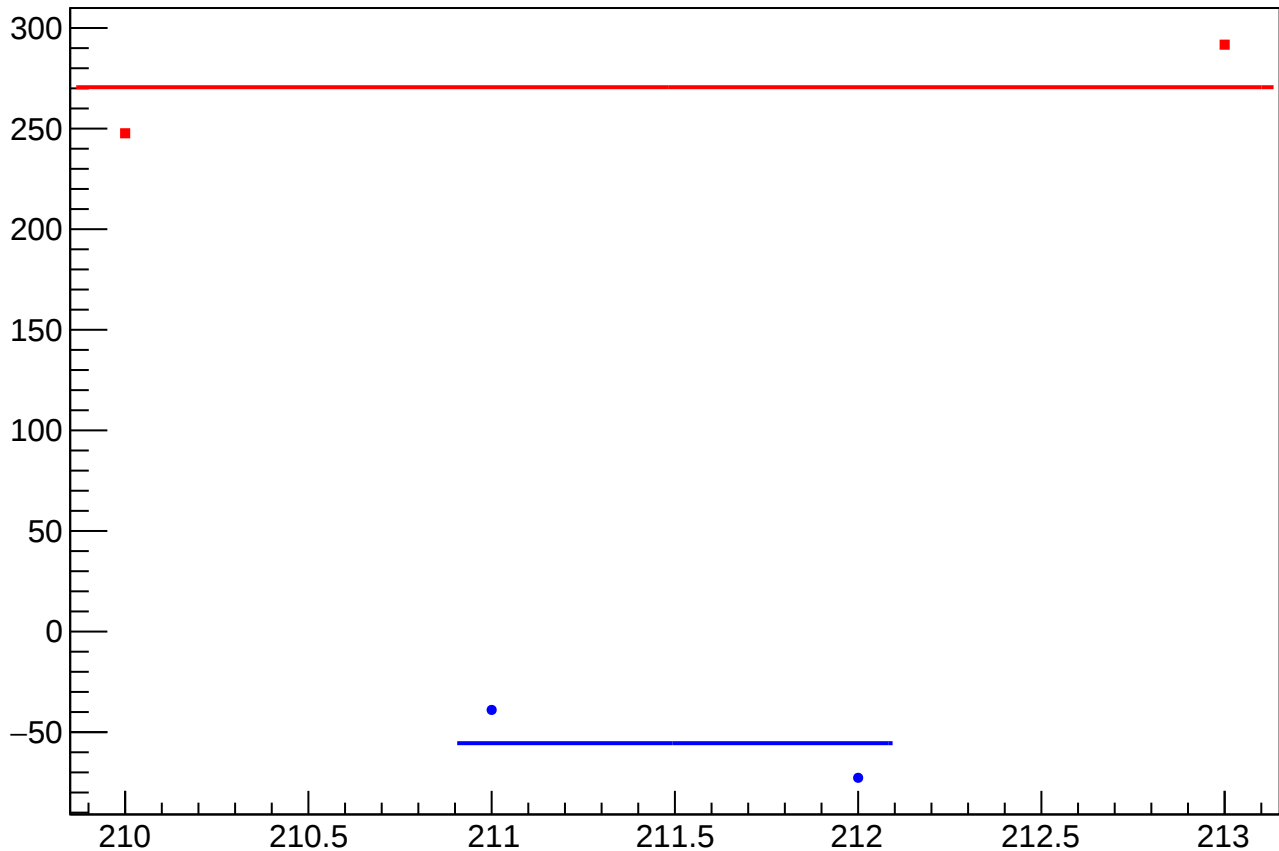
All: 128.683+/-0.000 χ^2/NDF : 334774251033

RTPPITA1CNT_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right: 107.083+/-0.000 χ^2/NDF : 812270855163380
 In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: 107.083+/-0.000 χ^2/NDF : 812270855163380

RTPPITA2CNT_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right Out: 270.574+/-0.000 χ^2/NDF : 72629179805941194116968620035670016.0/1
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -55.479+/-0.000 χ^2/NDF : 42949061990506951287631176628436992.0/1
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: 107.006+/-0.000 χ^2/NDF : 811535492023896