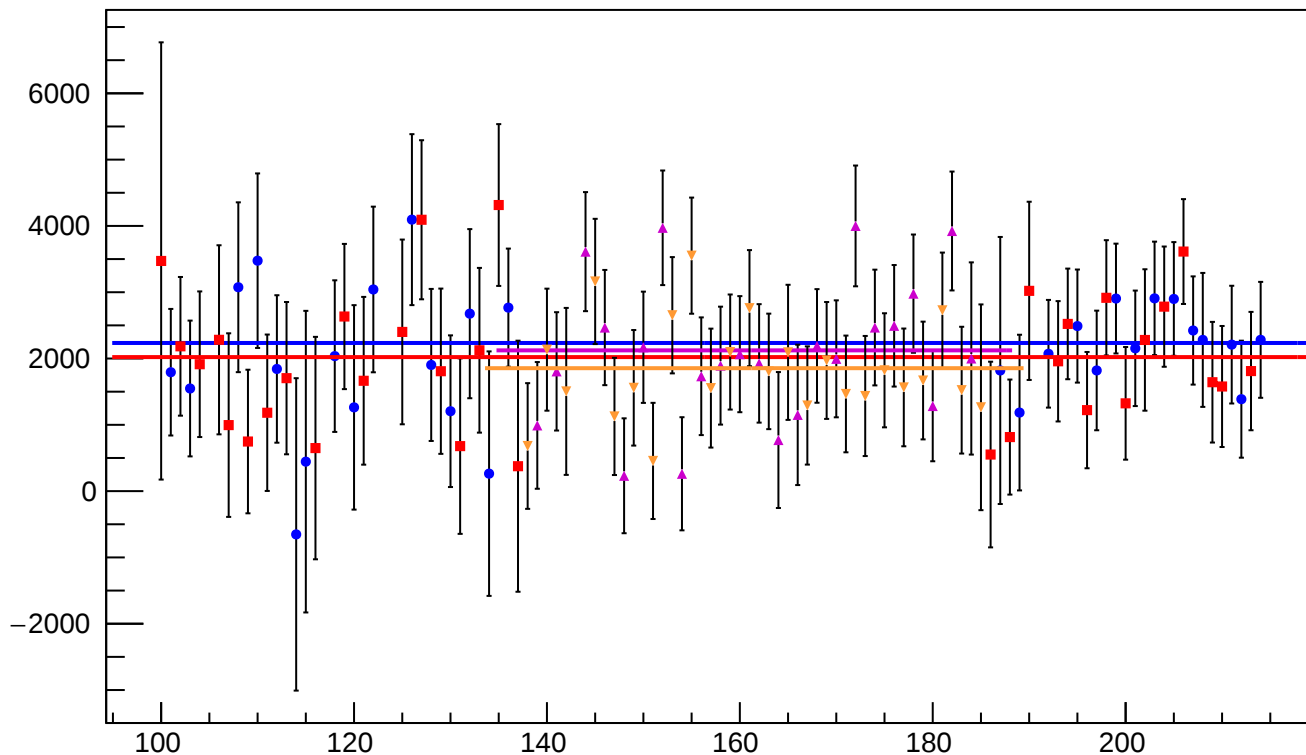


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2234.642+/-190.767

Left Out: 1854.267+/-187.405

Right Out: 2021.592+/-190.957

Left In: 2123.138+/-188.684

χ^2/NDF : 13.7/29

χ^2/NDF : 15.1/23

χ^2/NDF : 24.0/31

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2128.223+/-134.960

In: 2178.278+/-134.150

Out: 1936.359+/-133.754

All: 2056.960+/-94.718

χ^2/NDF : 48.1/46

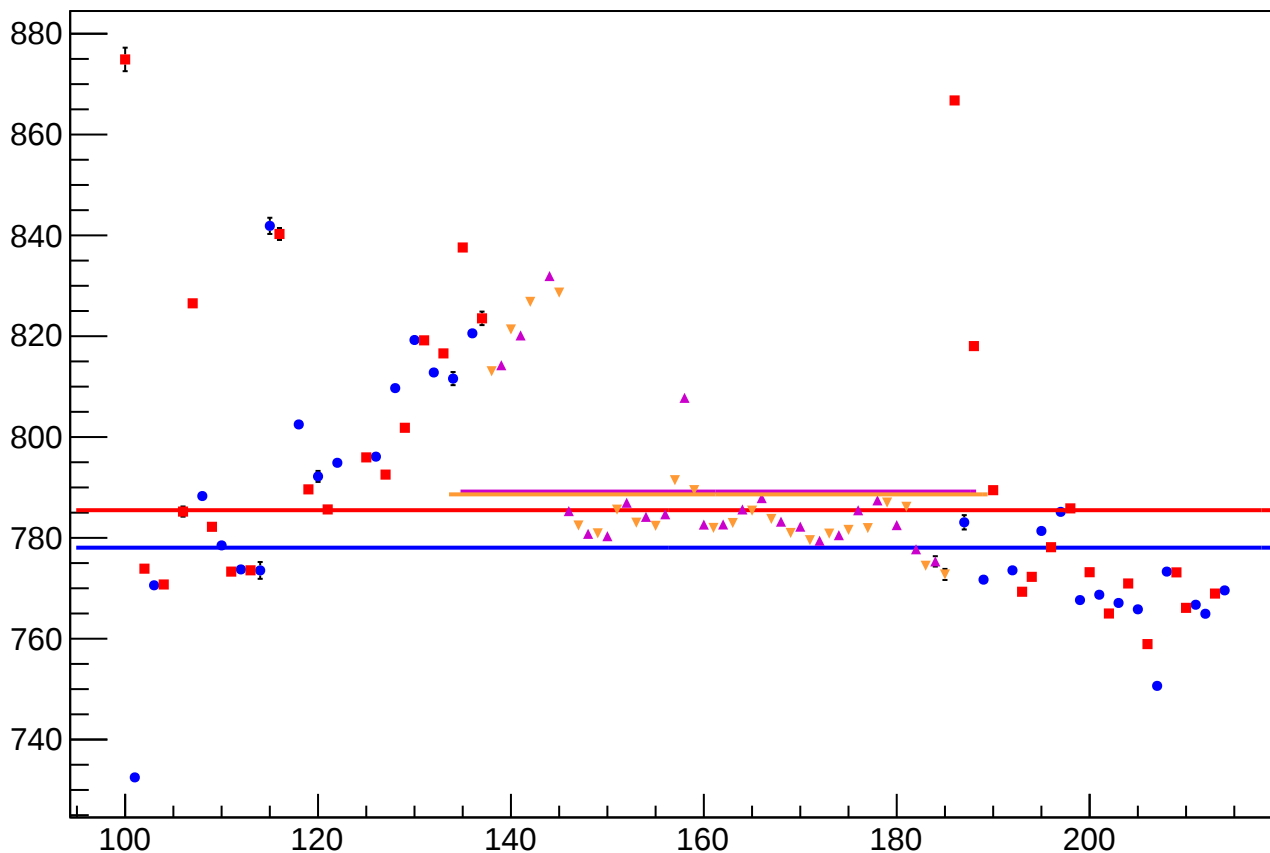
χ^2/NDF : 38.4/61

χ^2/NDF : 45.9/52

χ^2/NDF : 39.5/55

χ^2/NDF : 87.1/108

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 778.057 $\pm$ 0.135 χ^2 /NDF: 23879.8/29

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

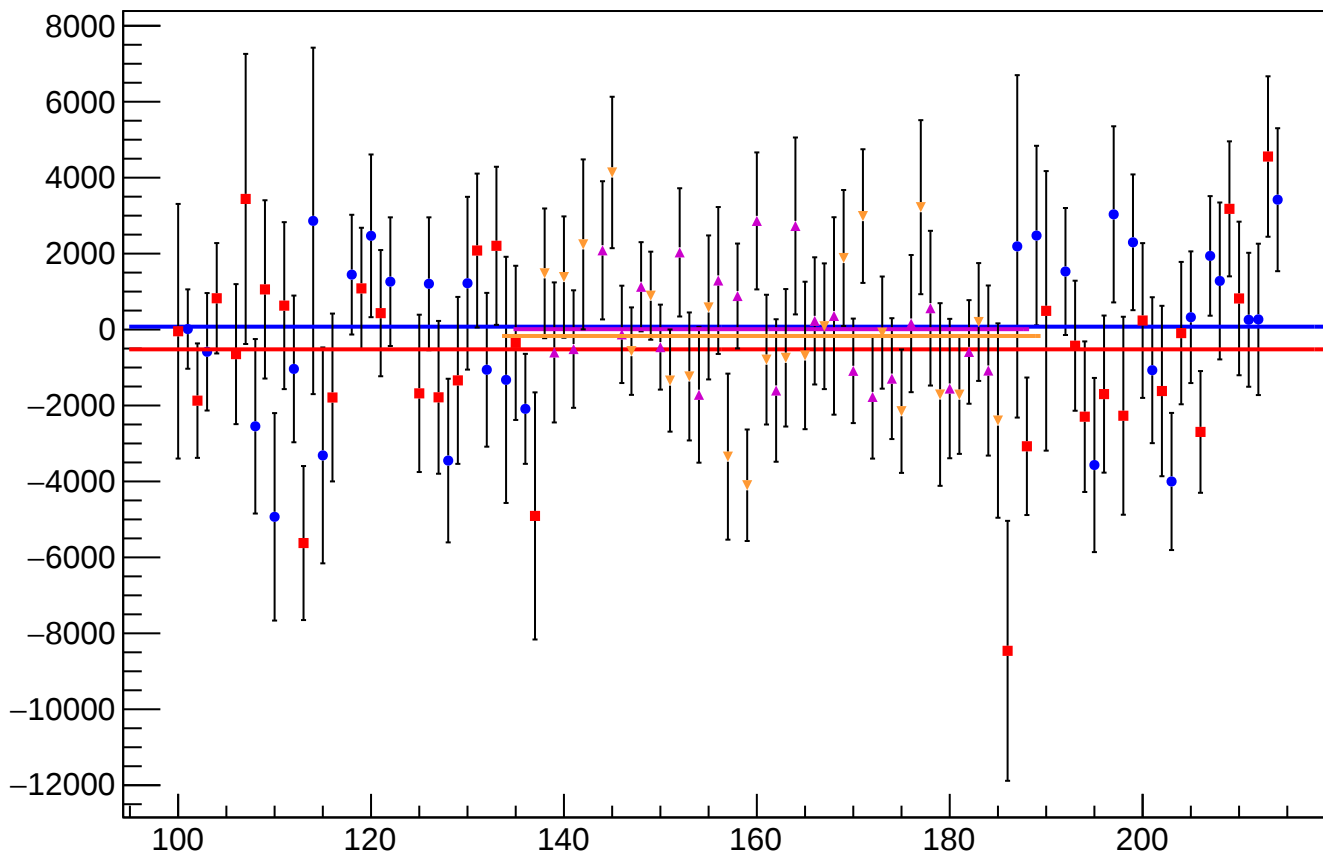
Right: 781.770 $\pm$ 0.095 χ^2 /NDF: 56098.2/61

In: 783.682 $\pm$ 0.095 χ^2 /NDF: 38662.7/52

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

All: 785.391 $\pm$ 0.067 χ^2 /NDF: 81765.1/108

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: 75.826 $\pm$ 347.244 χ^2 /NDF: 33.6/29

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

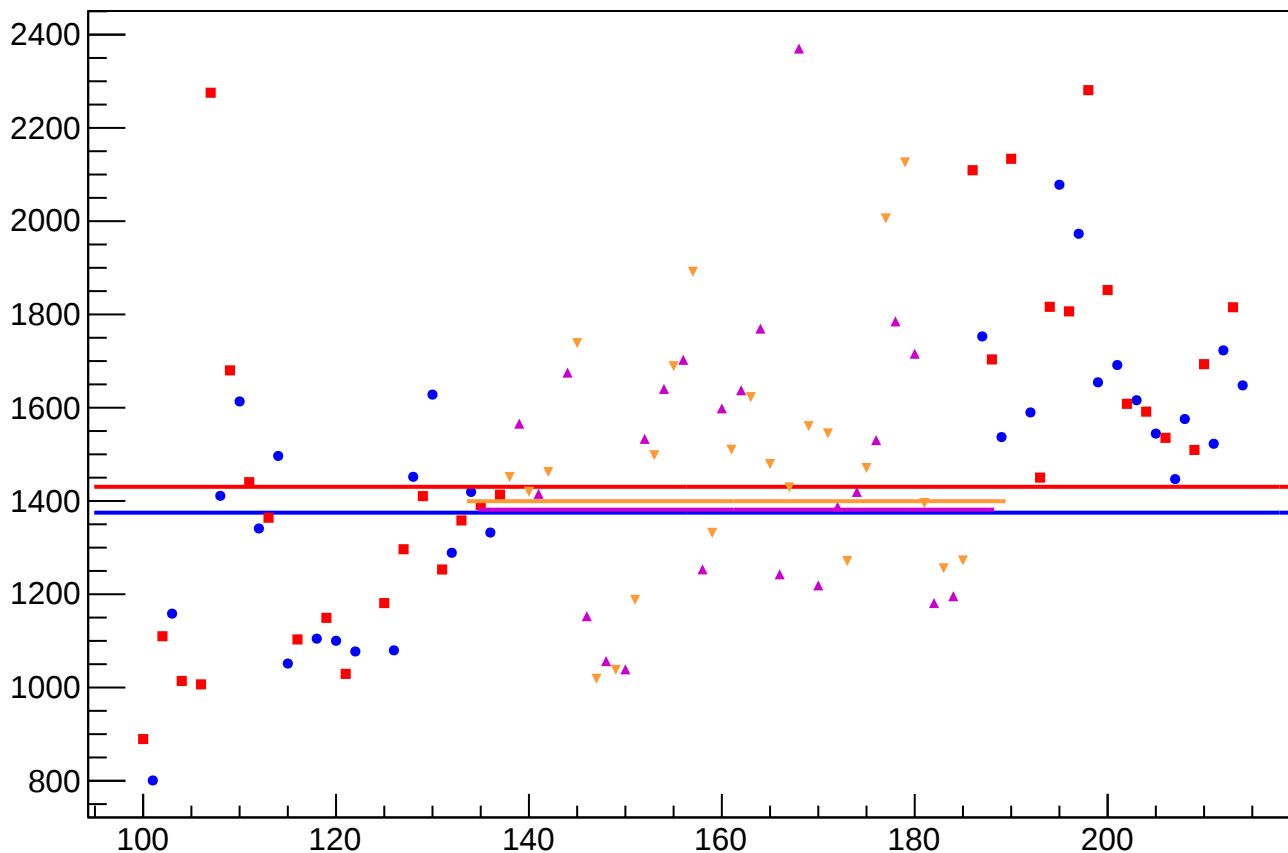
Right: -213.342 $\pm$ 249.333 χ^2 /NDF: 74.4/61

In: 42.054 $\pm$ 242.134 χ^2 /NDF:47.9/52

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

All: -143.473 $\pm$ 172.827 χ^2 /NDF: 118.9/108

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1374.969 $\pm$ 0.246 χ^2 /NDF: 1605398.3/29

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

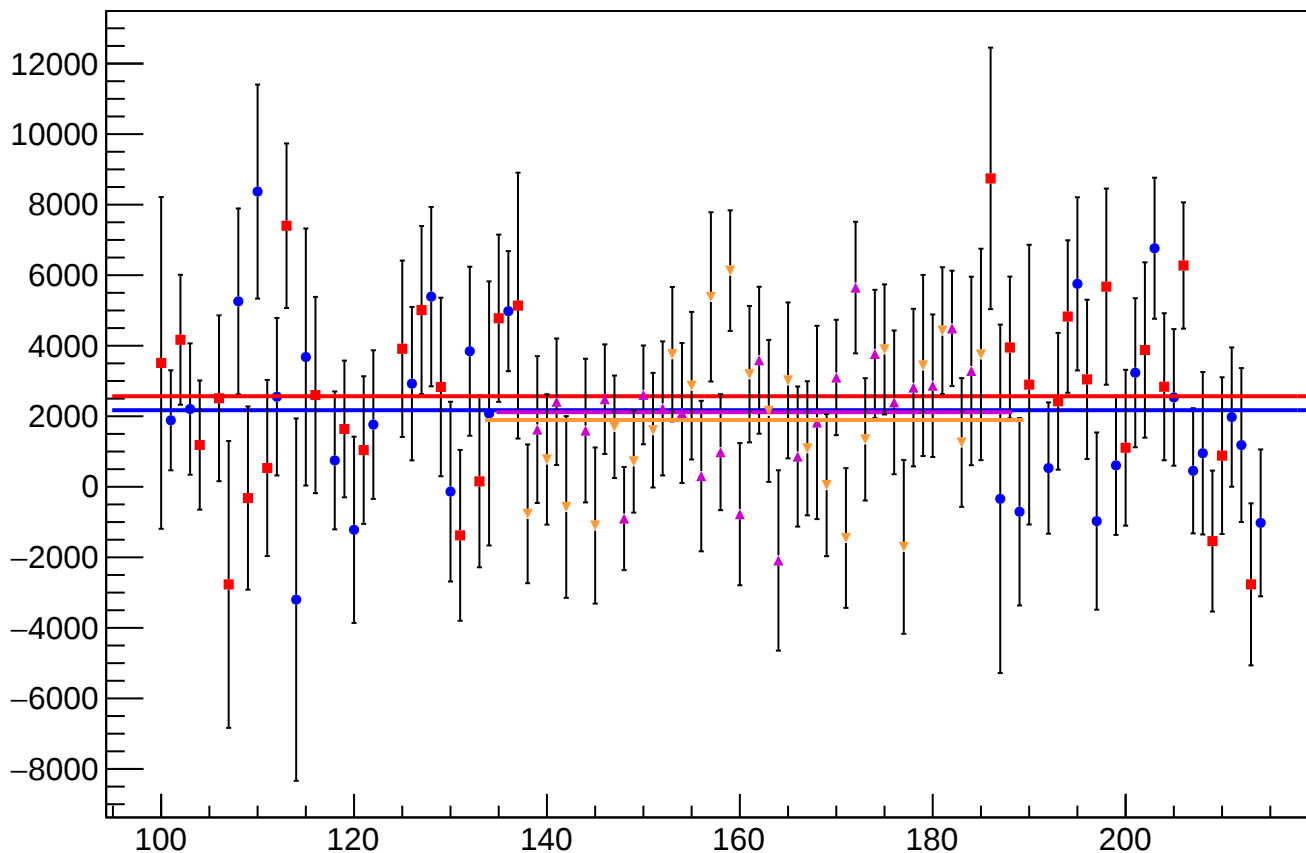
Right: 1401.816 $\pm$ 0.176 χ^2 /NDF: 3221794.6/61

In: 1378.252 $\pm$ 0.171 χ^2 /NDF:2882234.4/52

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

All: 1395.887 $\pm$ 0.122 χ^2 /NDF: 5622474.4/100

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2171.831 $\pm$ 405.242 χ^2 /NDF: 30.7/29

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

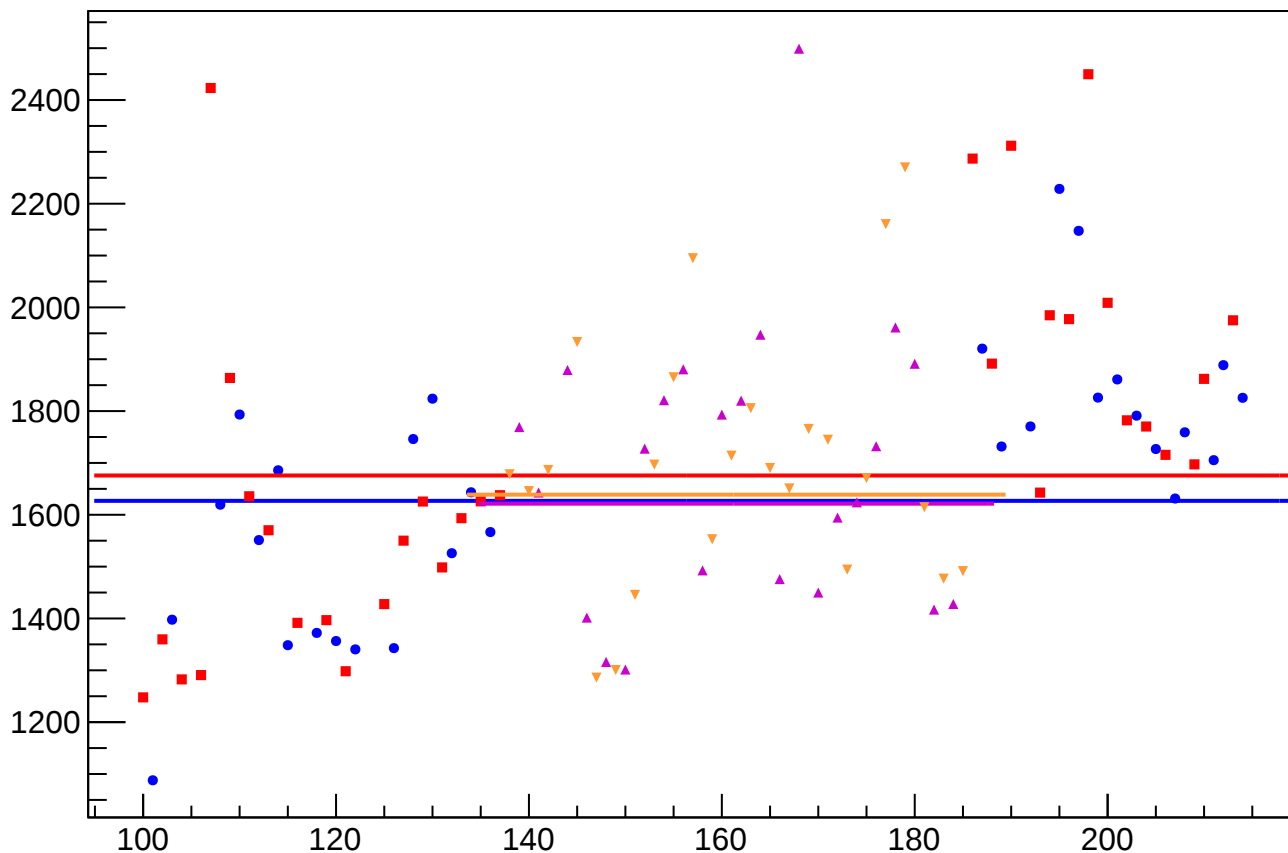
Right: 2365.188 $\pm$ 289.828 χ^2 /NDF: 68.4/61

In: 2143.118 $\pm$ 282.120 χ^2 /NDF: 49.5/52

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

All: 2178.120 $\pm$ 200.834 χ^2 /NDF: 114.1/108

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1626.863 $\pm$ 0.287 χ^2 /NDF: 836559.6/29

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

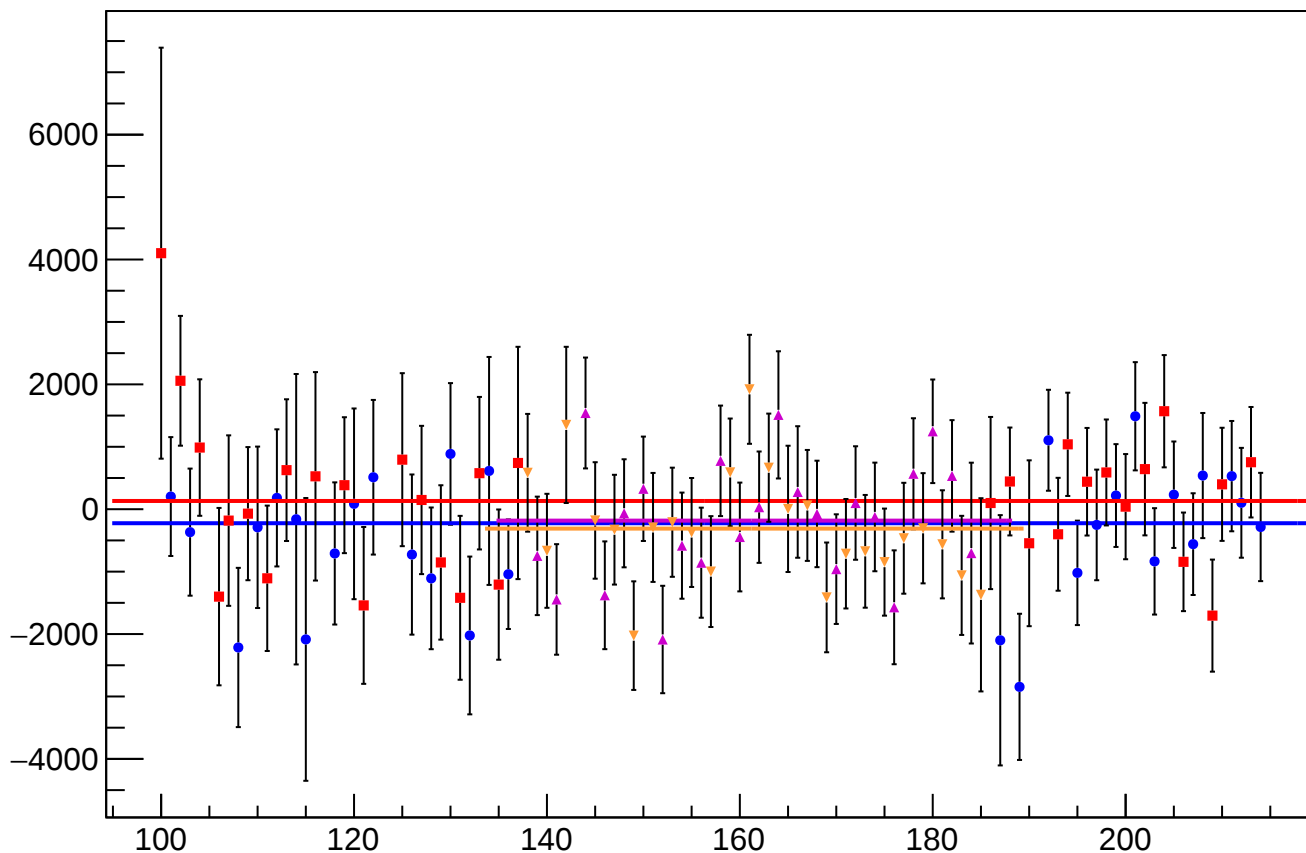
Right: 1650.757 $\pm$ 0.205 χ^2 /NDF: 1785675.6/61

In: 1624.056 $\pm$ 0.199 χ^2 /NDF: 1612055.8/52

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

All: 1640.003 $\pm$ 0.142 χ^2 /NDF: 3240137.5/10

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -224.440 ± 189.330 $\chi^2/\text{NDF}: 25.0/29$

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

Right Out: 131.962 ± 189.154 $\chi^2/\text{NDF}: 25.1/31$

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

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

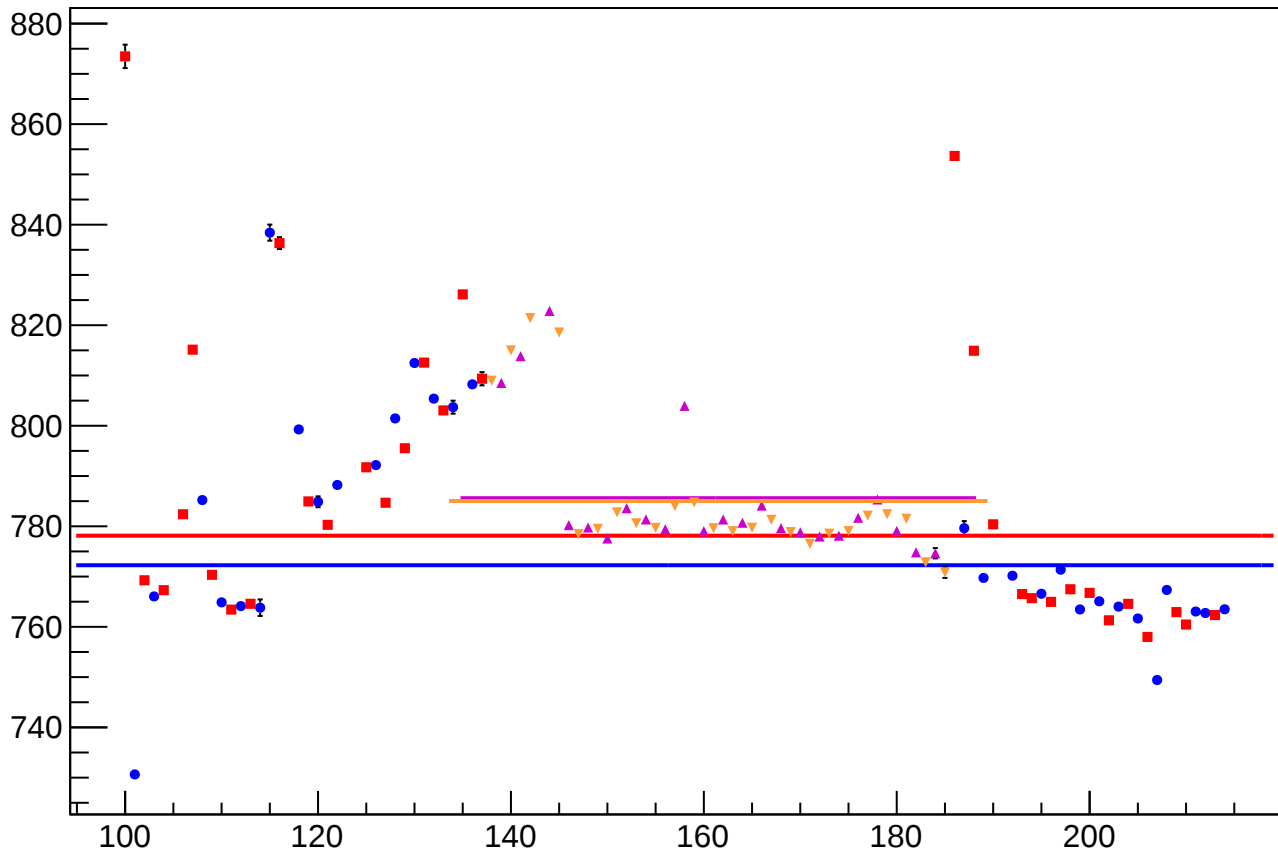
Right: -46.073 ± 133.814 $\chi^2/\text{NDF}: 51.9/61$

In: -203.501 ± 133.338 $\chi^2/\text{NDF}: 51.1/52$

Out: -92.382 ± 132.817 $\chi^2/\text{NDF}: 48.0/55$

All: -147.724 ± 94.100 $\chi^2/\text{NDF}: 99.4/108$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 772.255+/-0.134 χ^2/NDF : 20532.5/29

Left Out: 785.031+/-0.132 χ^2/NDF : 9367.9/23

Right Out: 778.132+/-0.134 χ^2/NDF : 29120.8/31

Left In: 785.592+/-0.133 χ^2/NDF : 9373.7/22

Left: 785.309+/-0.094 χ^2/NDF : 18750.6/46

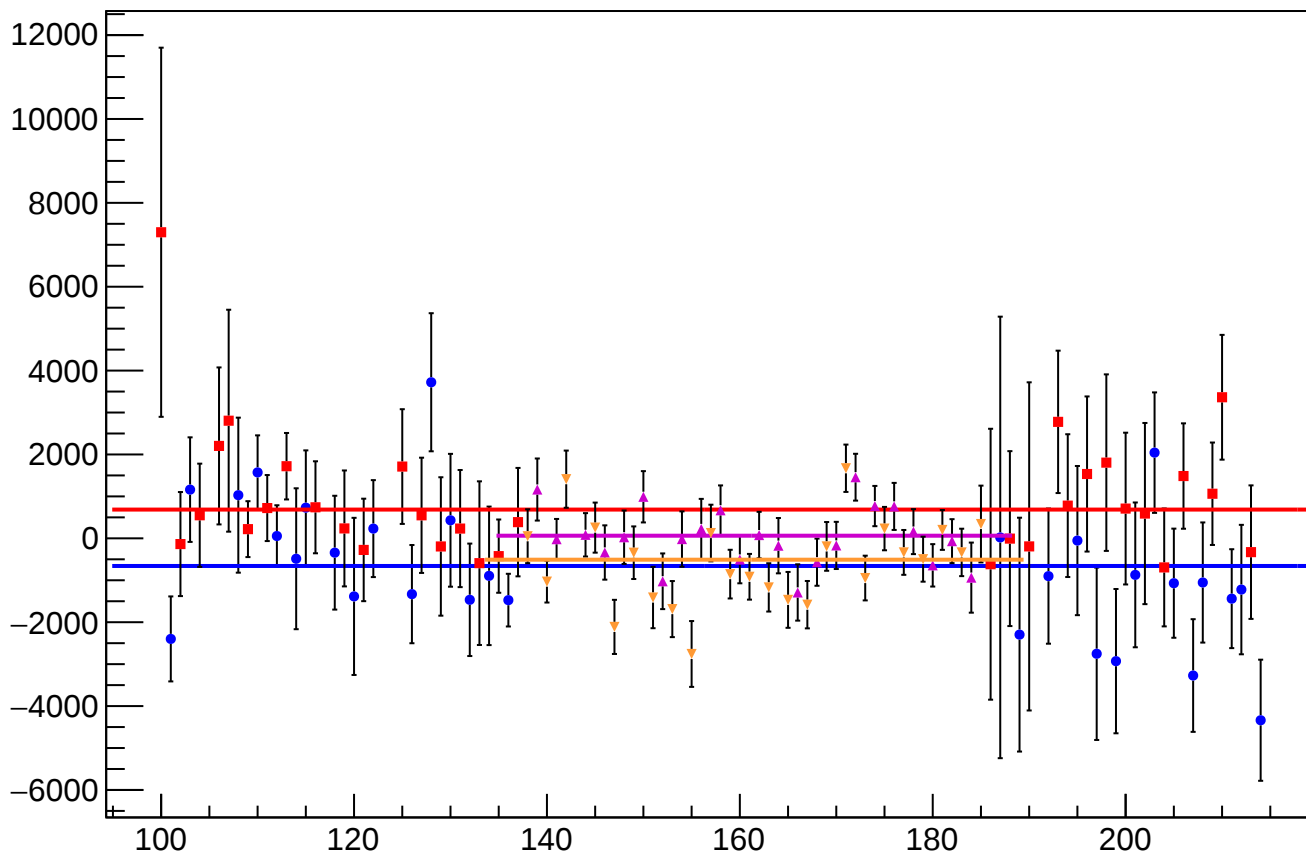
Right: 775.196+/-0.095 χ^2/NDF : 50617.7/61

In: 778.977+/-0.094 χ^2/NDF : 34908.5/52

Out: 781.629+/-0.094 χ^2/NDF : 39837.3/55

All: 780.308+/-0.067 χ^2/NDF : 75143.1/108

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -659.037 ± 235.828 $\chi^2/\text{NDF}: 42.9/29$

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

Right Out: 685.824 ± 234.641 $\chi^2/\text{NDF}: 17.4/31$

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

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

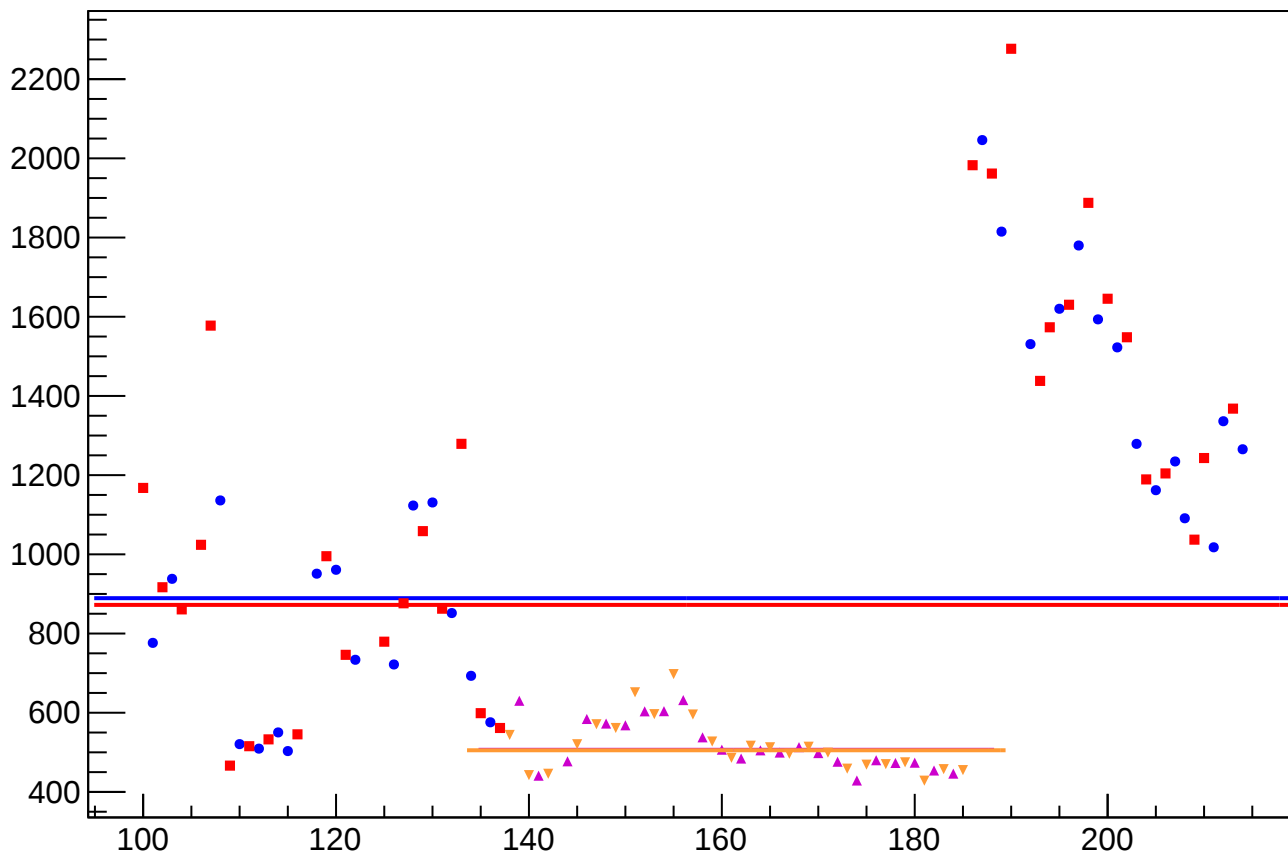
Right: 16.786 ± 166.334 $\chi^2/\text{NDF}: 76.7/61$

In: -89.712 ± 108.391 $\chi^2/\text{NDF}: 79.1/52$

Out: -257.631 ± 107.676 $\chi^2/\text{NDF}: 98.5/55$

All: -174.227 ± 76.390 $\chi^2/\text{NDF}: 178.7/108$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 889.283+/-0.167 χ^2/NDF : 4573264.0/29

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

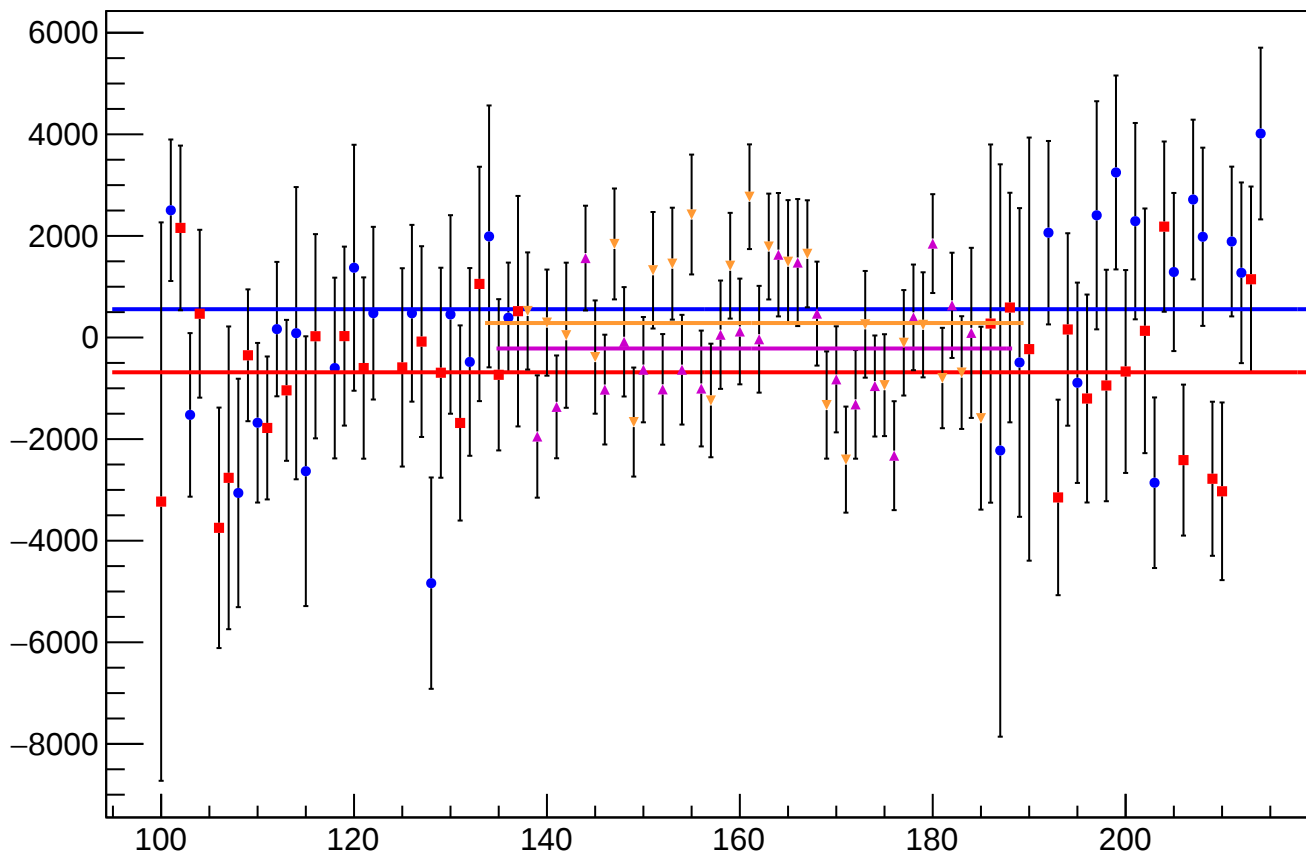
Right: 880.763+/-0.118 χ^2/NDF : 10472103.3/61

In: 587.268+/-0.077 χ^2/NDF : 9168250.4/52

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

All: 584.882+/-0.054 χ^2/NDF : 19414119.6/10

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 557.399 $\pm$ 326.934 χ^2 /NDF: 34.8/29

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

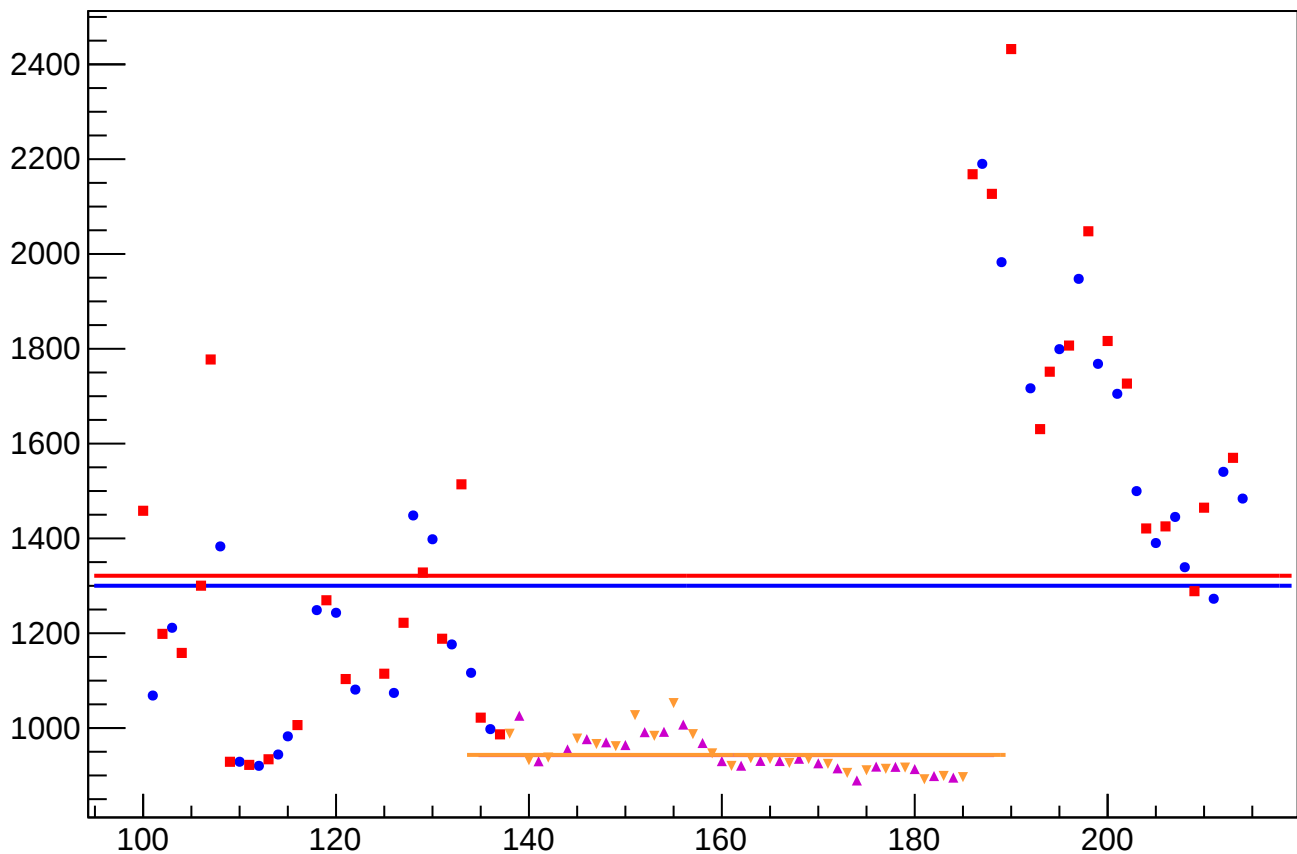
Right: -53.793 $\pm$ 232.990 χ^2 /NDF: 61.6/61

In: 33.393 $\pm$ 185.683 χ^2 /NDF:63.1/52

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

All: 7.361 $\pm$ 131.383 χ^2 /NDF: 126.8/108

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1300.175+/-0.231 χ^2/NDF : 1533166.8/29

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

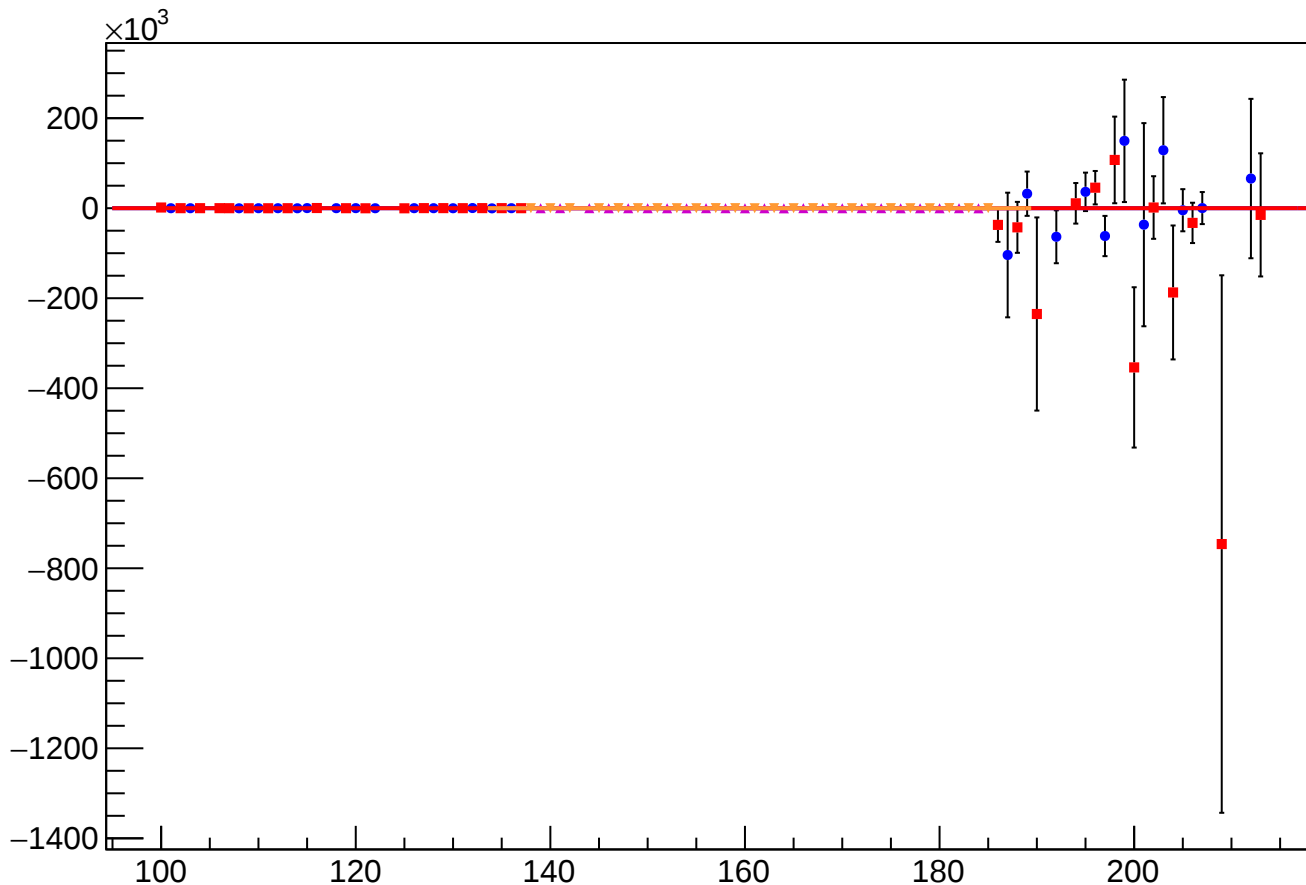
Right: 1310.550+/-0.165 χ^2/NDF : 3603220.3/61

In: 1058.164+/-0.131 χ^2/NDF : 3199332.4/52

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

All: 1059.970+/-0.093 χ^2/NDF : 7103968.5/100

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.555 ± 30.032 $\chi^2/\text{NDF}: 23.3/26$

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

Right Out: 31.724 ± 30.492 $\chi^2/\text{NDF}: 30.0/29$

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

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

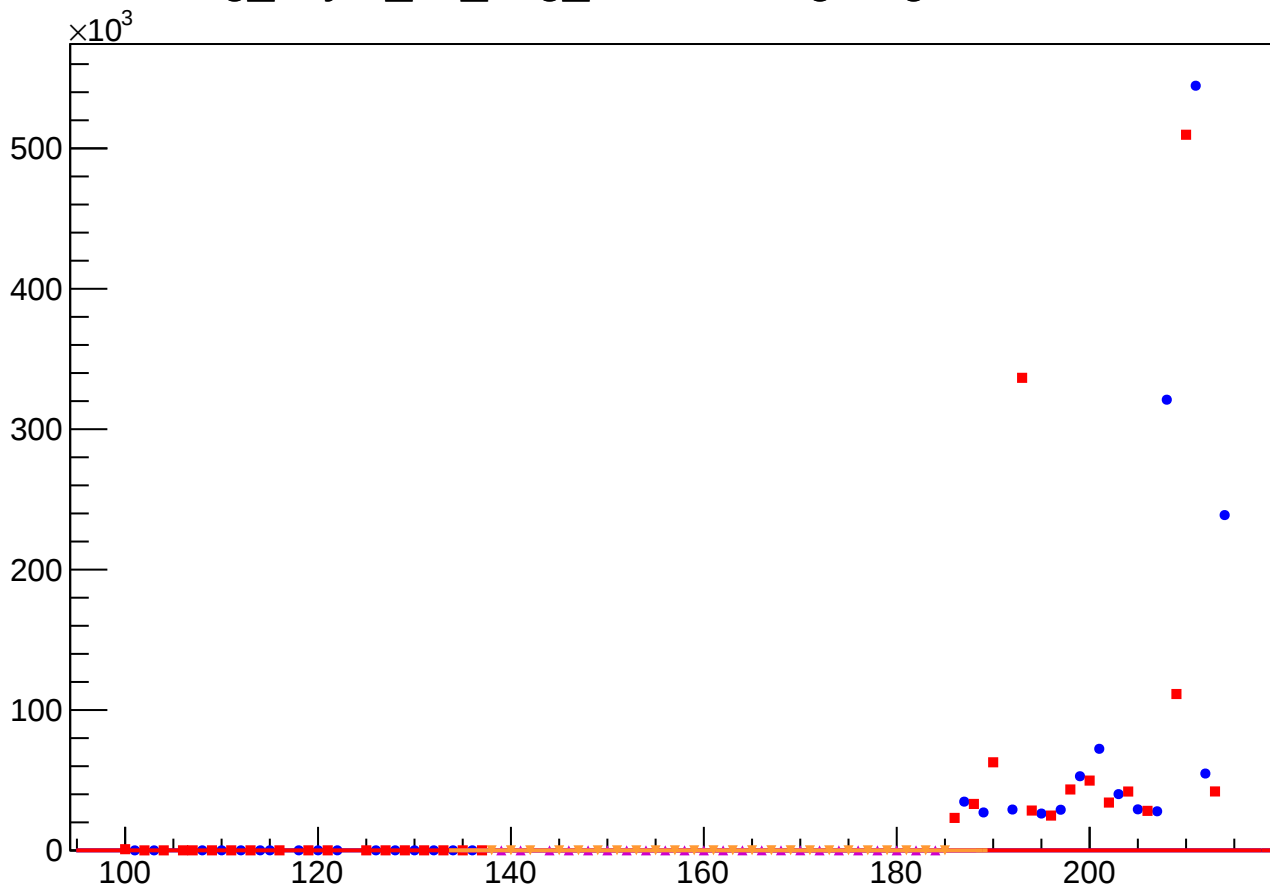
Right: 7.725 ± 21.397 $\chi^2/\text{NDF}: 54.5/56$

In: -20.419 ± 17.527 $\chi^2/\text{NDF}: 45.9/49$

Out: 12.994 ± 17.553 $\chi^2/\text{NDF}: 53.0/53$

All: -3.737 ± 12.403 $\chi^2/\text{NDF}: 100.7/103$

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.141 $\pm$ 0.021 χ^2 /NDF: 6580031.1/29

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

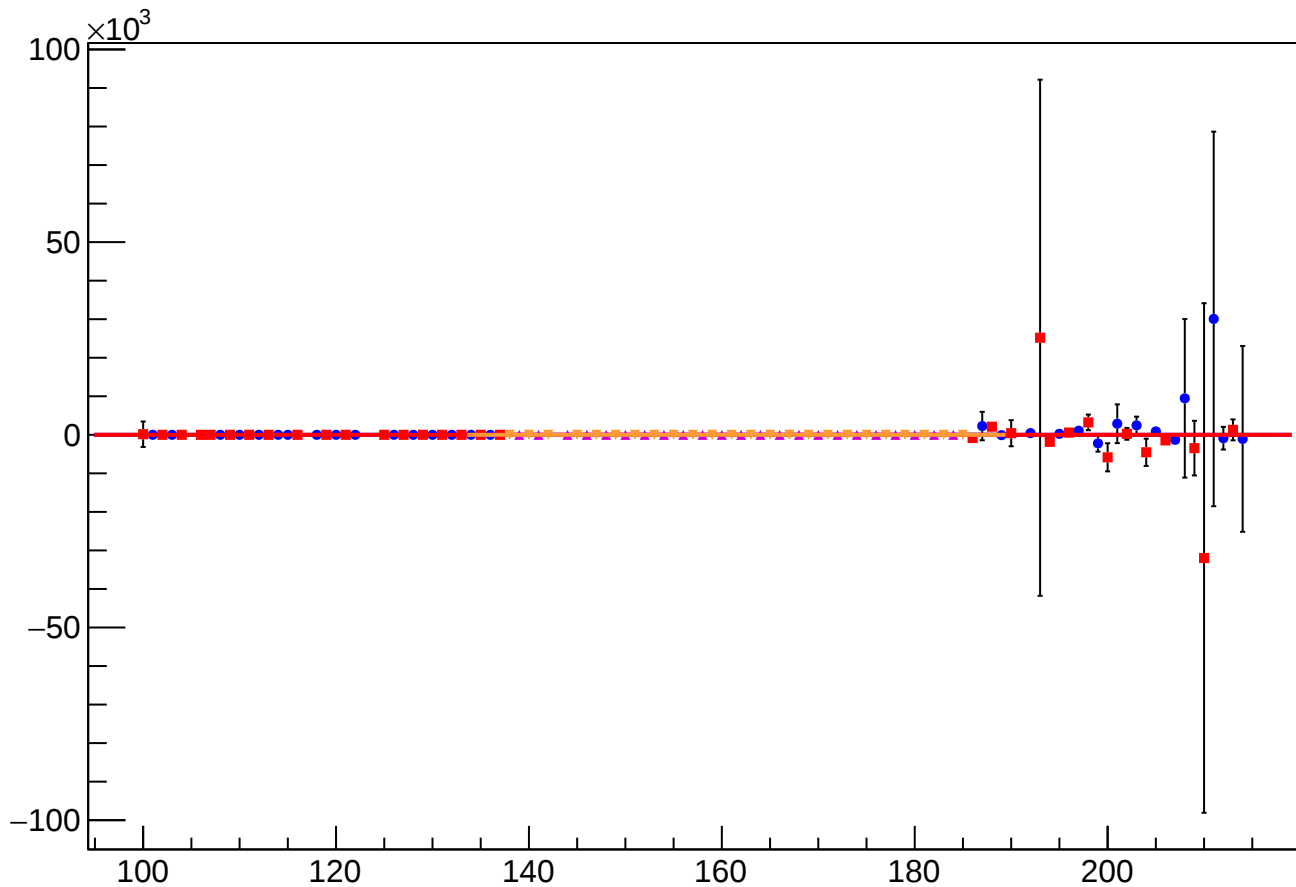
Right: 77.774 $\pm$ 0.015 χ^2 /NDF: 12788505.8/61

In: 85.013 $\pm$ 0.012 χ^2 /NDF: 7353253.0/52

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

All: 85.656 $\pm$ 0.009 χ^2 /NDF: 14172023.7/108

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.502 χ^2/NDF : 31.5/29

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

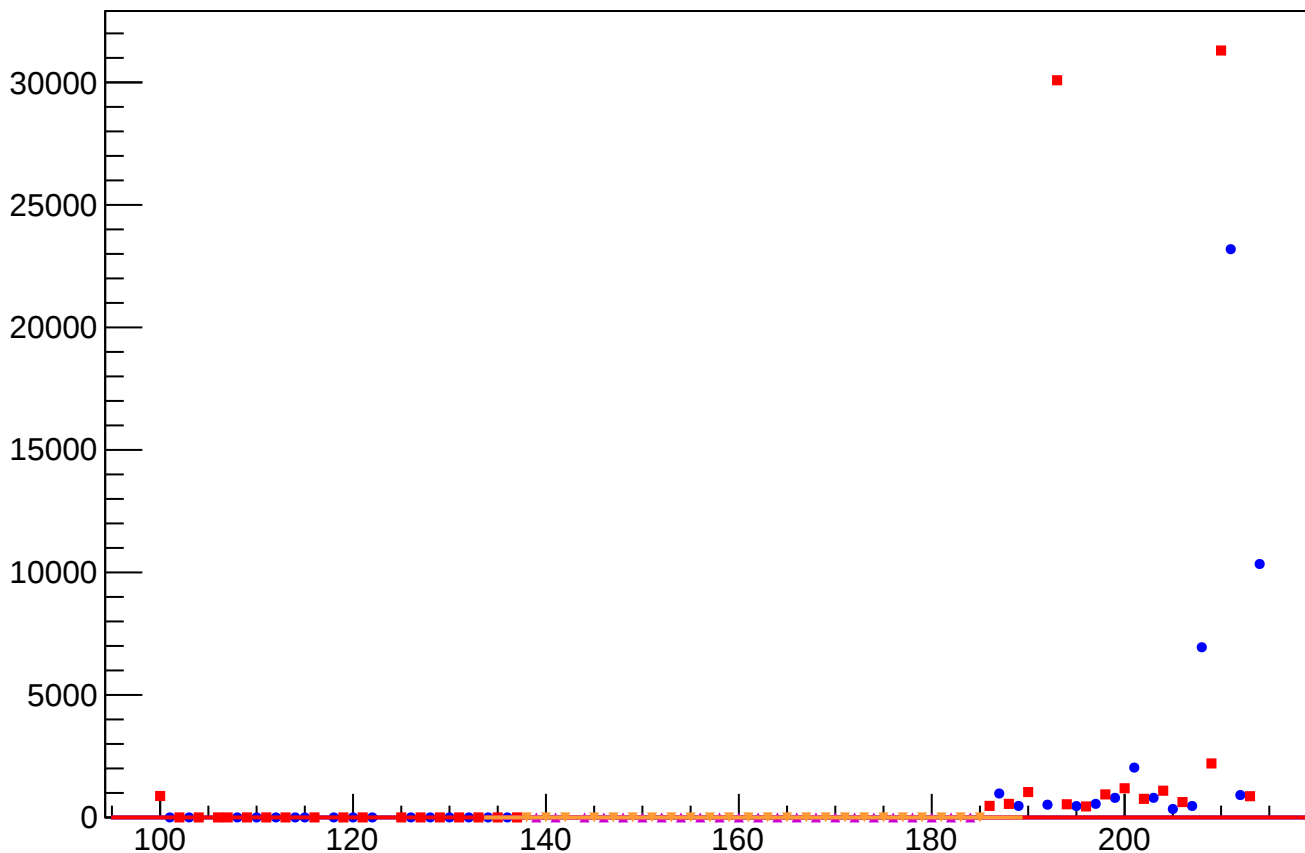
Right: -0.133 ± 0.363 χ^2/NDF : 61.4/61

In: -0.433 ± 0.306 χ^2/NDF : 58.0/52

Out: 0.096 ± 0.306 χ^2/NDF : 51.1/55

All: -0.168 ± 0.217 χ^2/NDF : 110.6/108

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 6570763.3/29

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

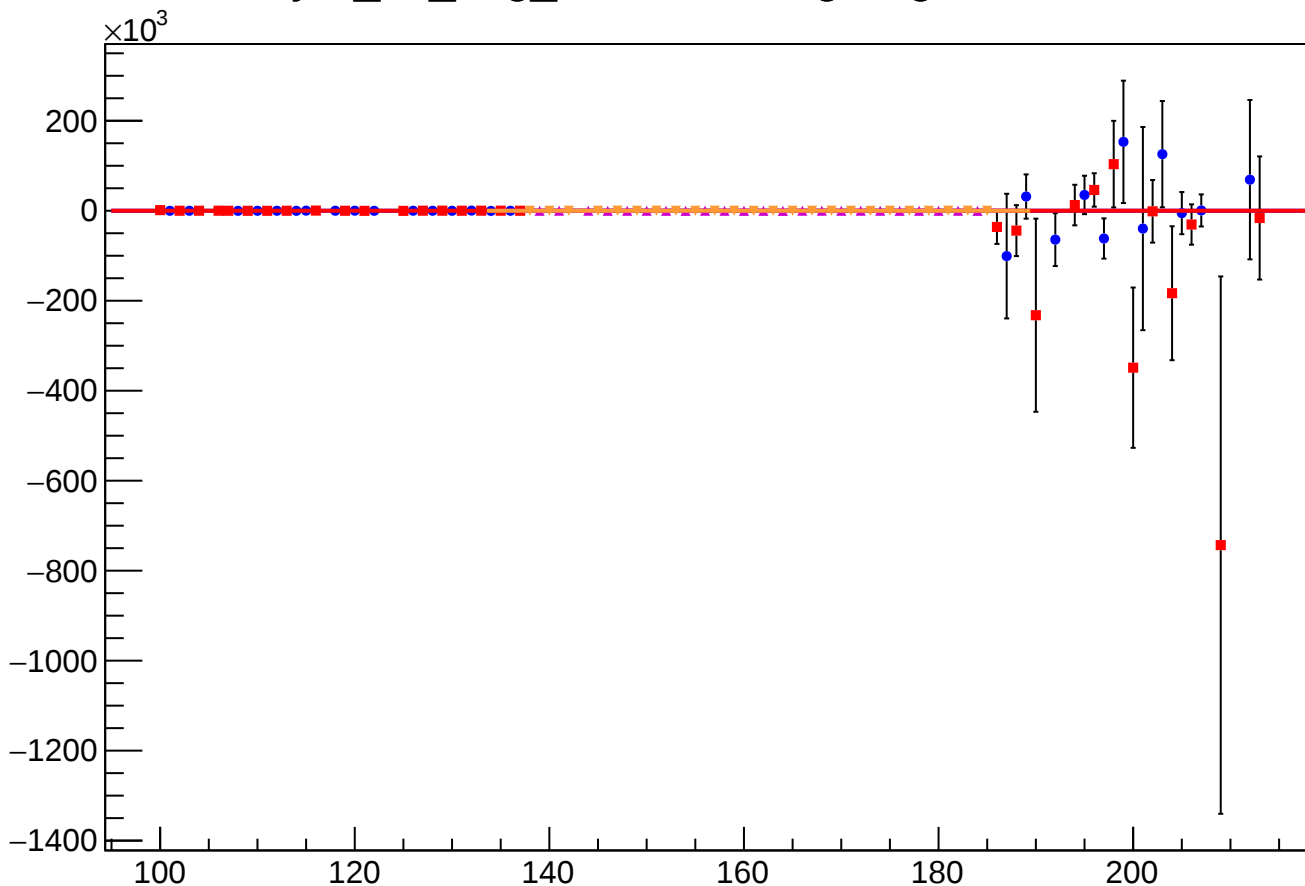
Right: 1.204+/-0.000 χ^2/NDF : 13430941.3/61

In: 1.341+/-0.000 χ^2/NDF : 8014813.7/52

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

All: 1.350+/-0.000 χ^2/NDF : 15927192.5/108

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

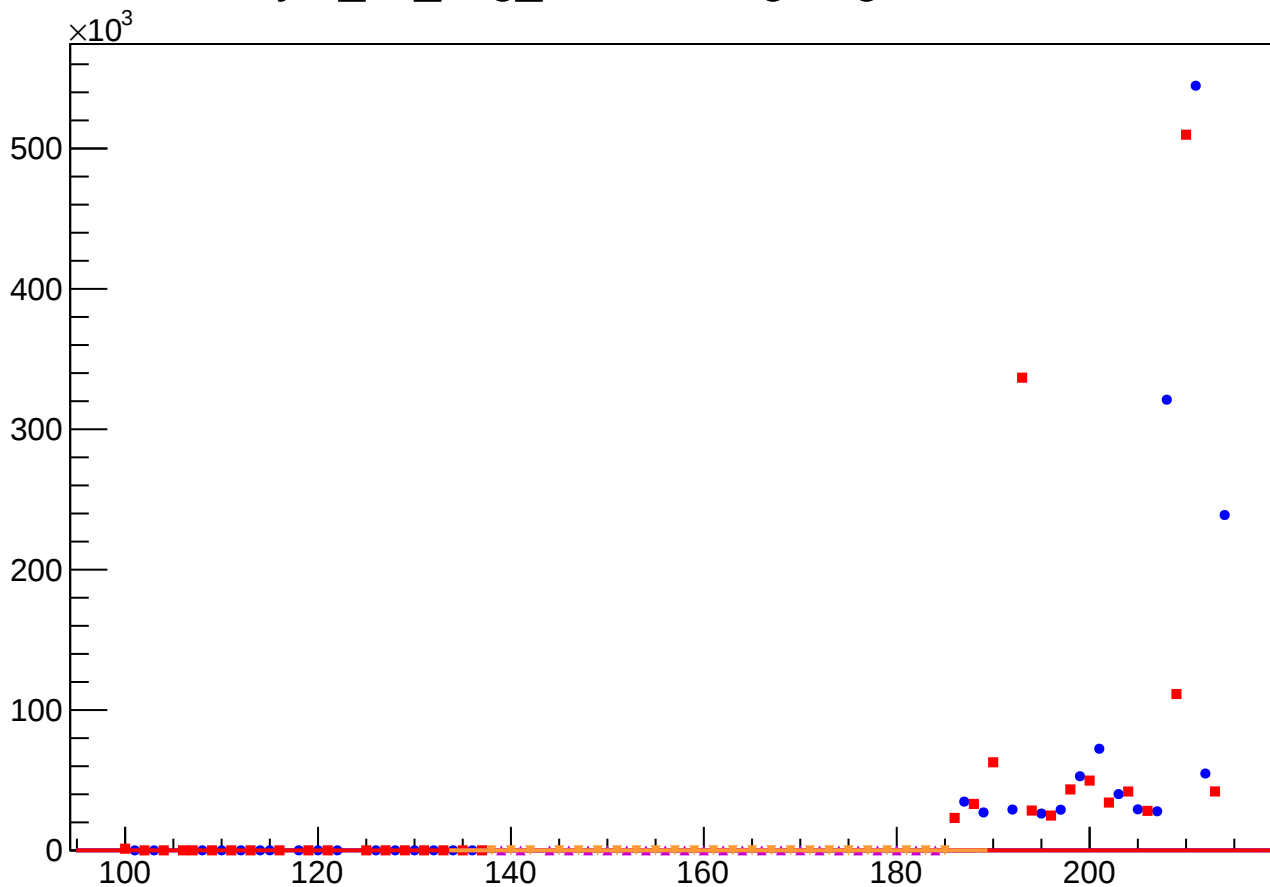
Right: 8.403 ± 21.402 χ^2/NDF : 54.3/56

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

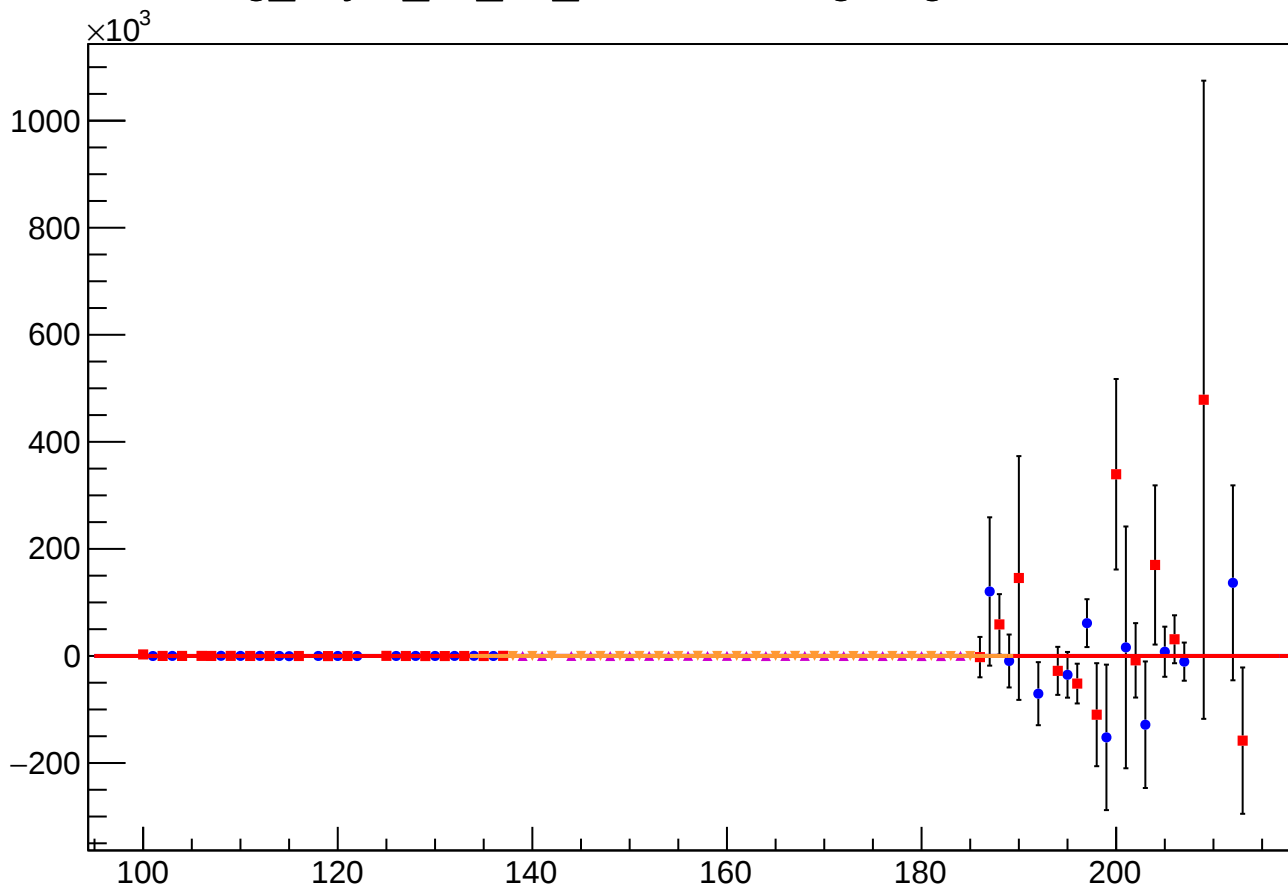
asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.160 $\pm$ 0.021 χ^2 /NDF: 6580142.4/29
 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: 12795104.6/61
 In: 85.037 $\pm$ 0.012 χ^2 /NDF: 7354367.1/52
 Out: 86.319 $\pm$ 0.012 χ^2 /NDF: 6821336.0/55
 All: 85.677 $\pm$ 0.009 χ^2 /NDF: 14181047.6/108

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.091 ± 30.012 χ^2/NDF : 21.9/26

Left Out: 15.274 ± 21.472 χ^2/NDF : 17.2/23

Right Out: -25.791 ± 30.473 χ^2/NDF : 25.3/29

Left In: 43.424 ± 21.593 χ^2/NDF : 31.4/22

Left: 29.270 ± 15.226 χ^2/NDF : 49.5/46

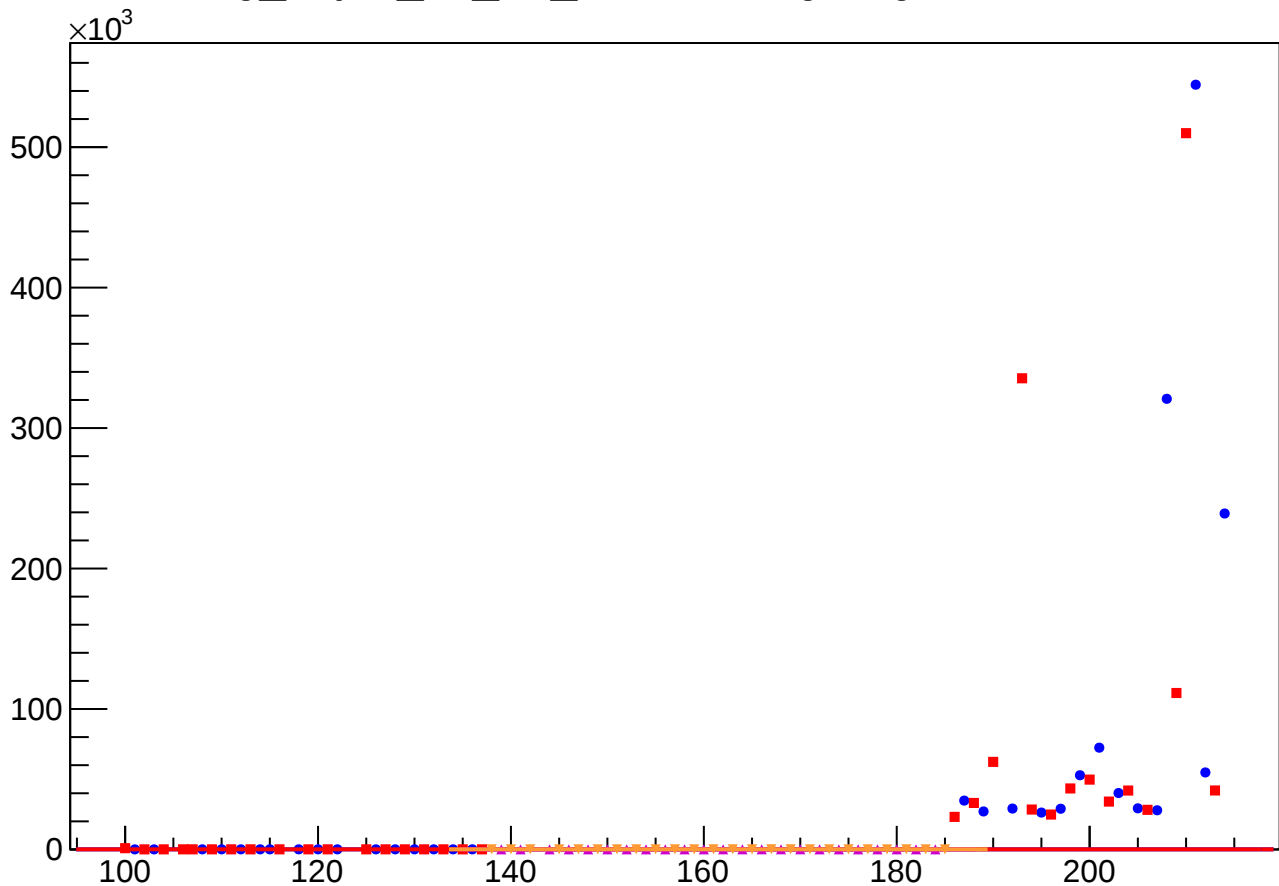
Right: -8.592 ± 21.383 χ^2/NDF : 47.9/56

In: 31.372 ± 17.528 χ^2/NDF : 54.3/49

Out: 1.649 ± 17.552 χ^2/NDF : 43.7/53

All: 16.531 ± 12.403 χ^2/NDF : 99.4/103

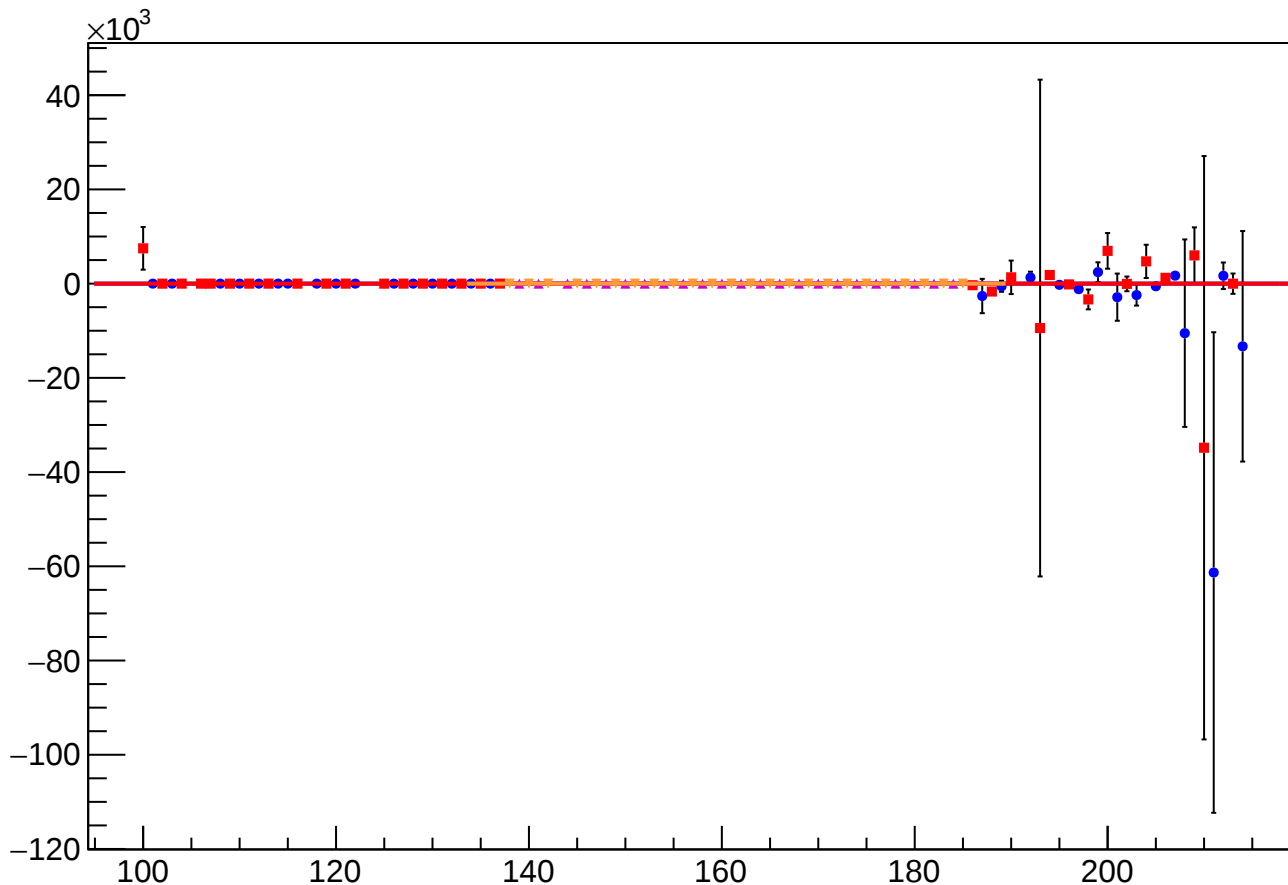
reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.091 $\pm$ 0.021 χ^2 /NDF: 6579478.5/29
 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: 12787289.1/61
 In: 85.010 $\pm$ 0.012 χ^2 /NDF:7358609.0/52
 Out: 86.294 $\pm$ 0.012 χ^2 /NDF:6813635.3/55
 All: 85.651 $\pm$ 0.009 χ^2 /NDF: 14177597.0/108

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 27.8/29$

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 $\chi^2/\text{NDF}: 41.7/46$

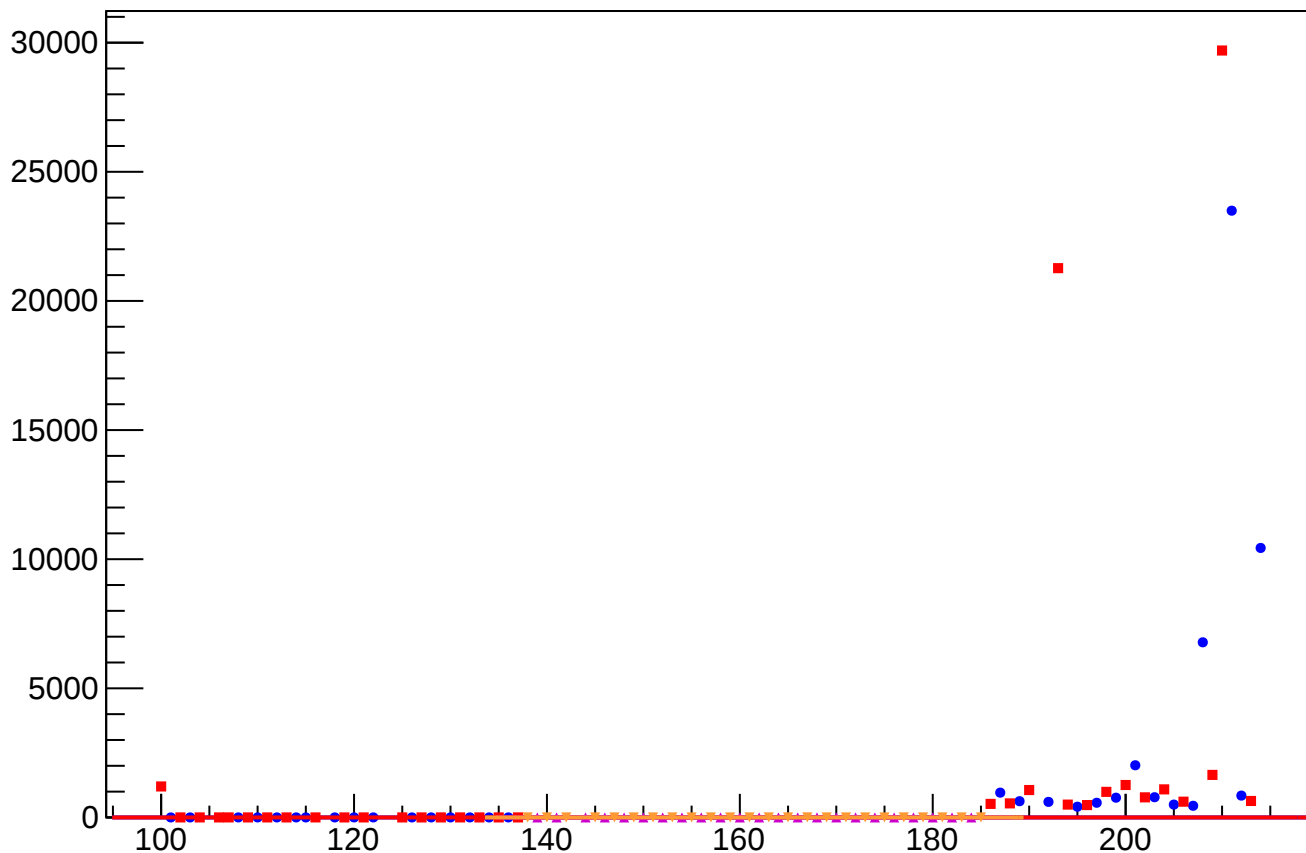
Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 60.3/61$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 50.3/52$

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

All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 105.9/108$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 6813504.2/29

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

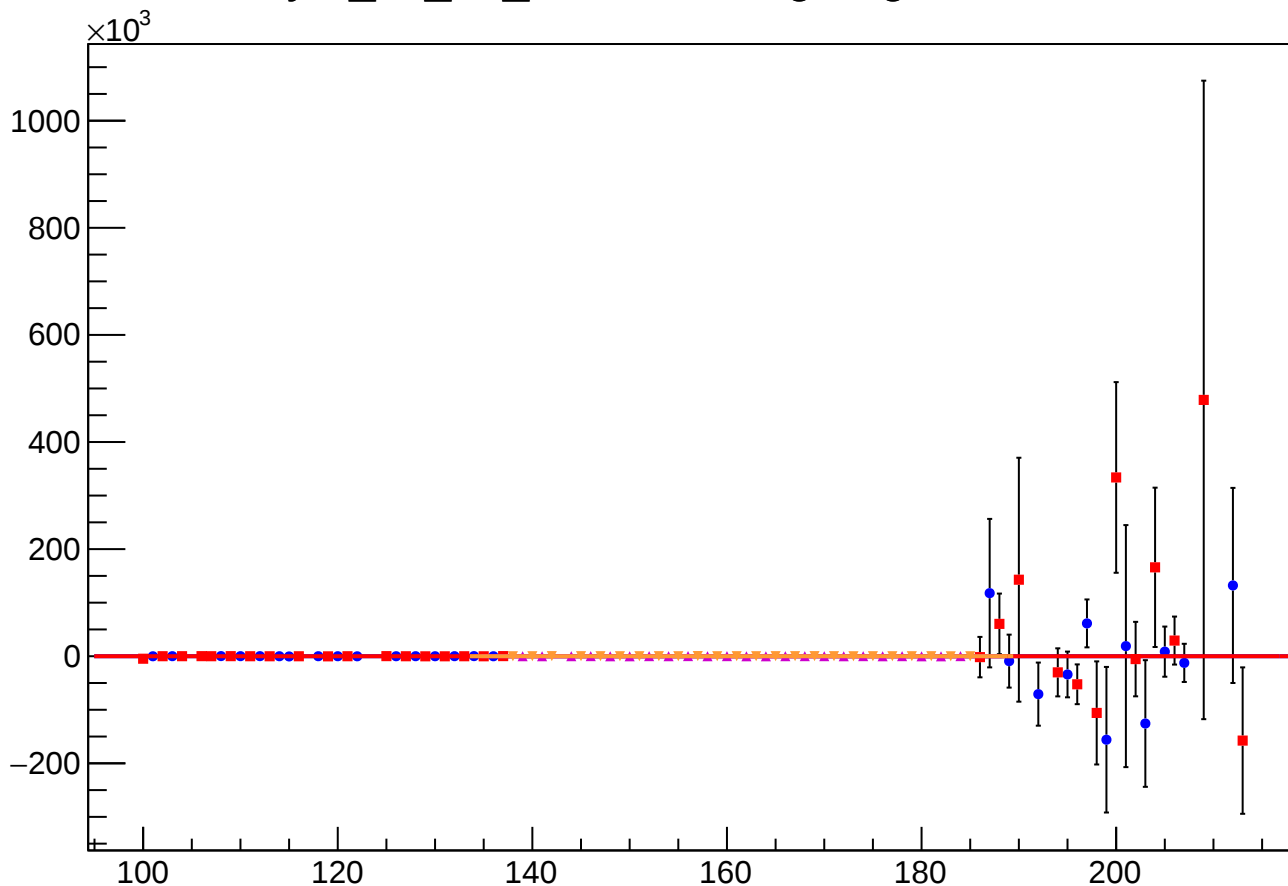
Right: 1.274+/-0.000 χ^2/NDF : 13547728.0/61

In: 1.382+/-0.000 χ^2/NDF : 8098507.3/52

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

All: 1.400+/-0.000 χ^2/NDF : 16082055.3/108

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

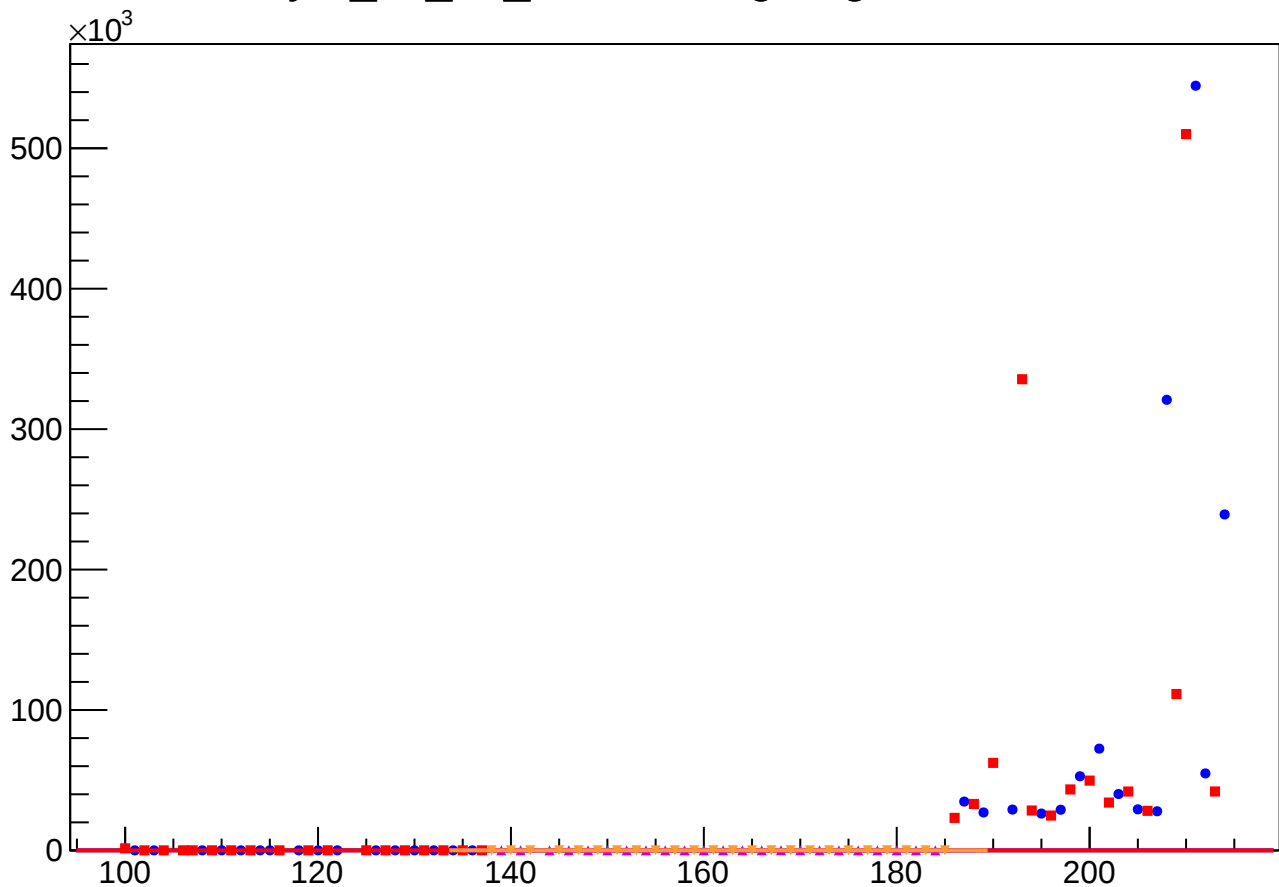
Right: -9.252+/-21.389 χ^2 /NDF: 47.7/56

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

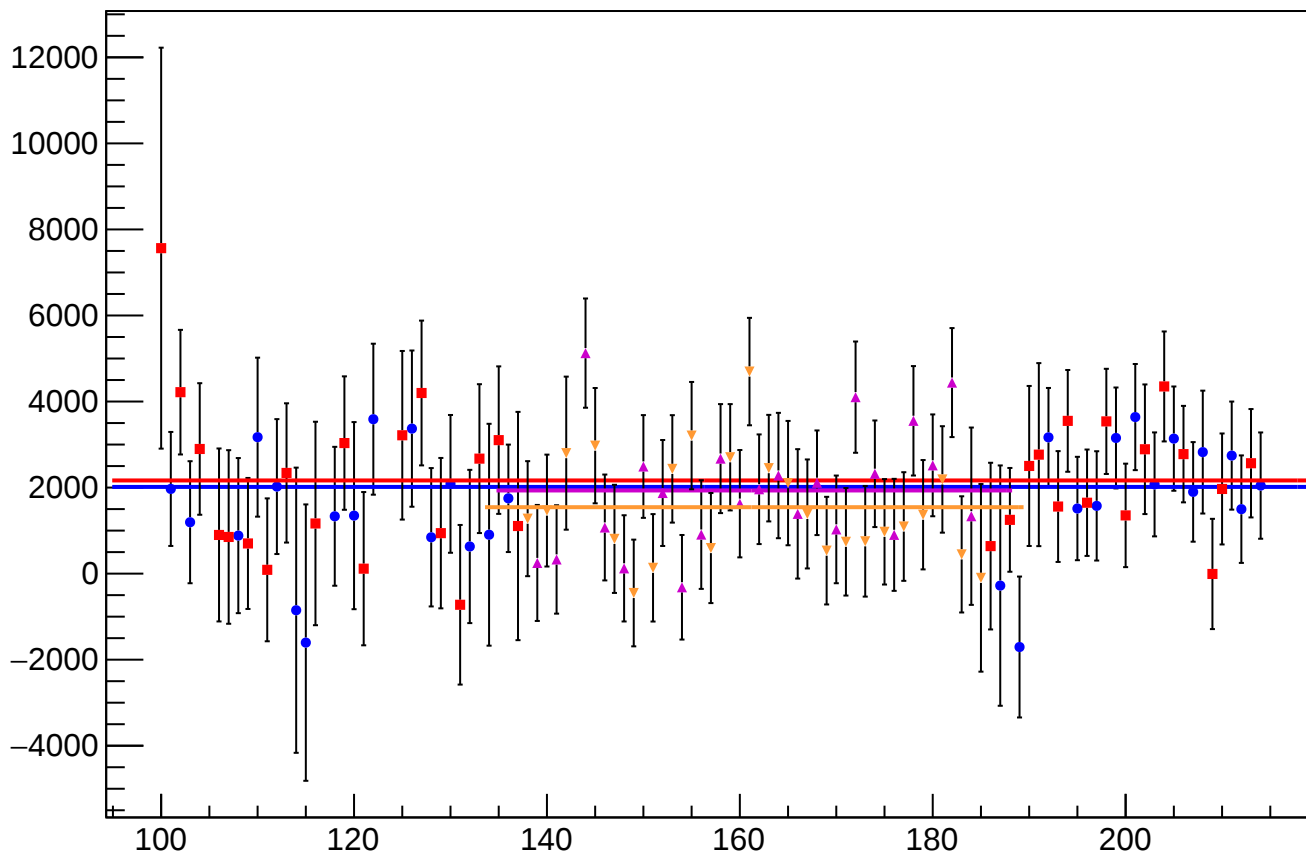
asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.112 $\pm$ 0.021 χ^2 /NDF: 6579640.9/29
 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: 12796589.1/61
 In: 85.035 $\pm$ 0.012 χ^2 /NDF: 7359673.8/52
 Out: 86.311 $\pm$ 0.012 χ^2 /NDF: 6824524.0/55
 All: 85.672 $\pm$ 0.009 χ^2 /NDF: 14189487.5/108

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 2015.340 $\pm$ 268.620 χ^2 /NDF: 17.7/29

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

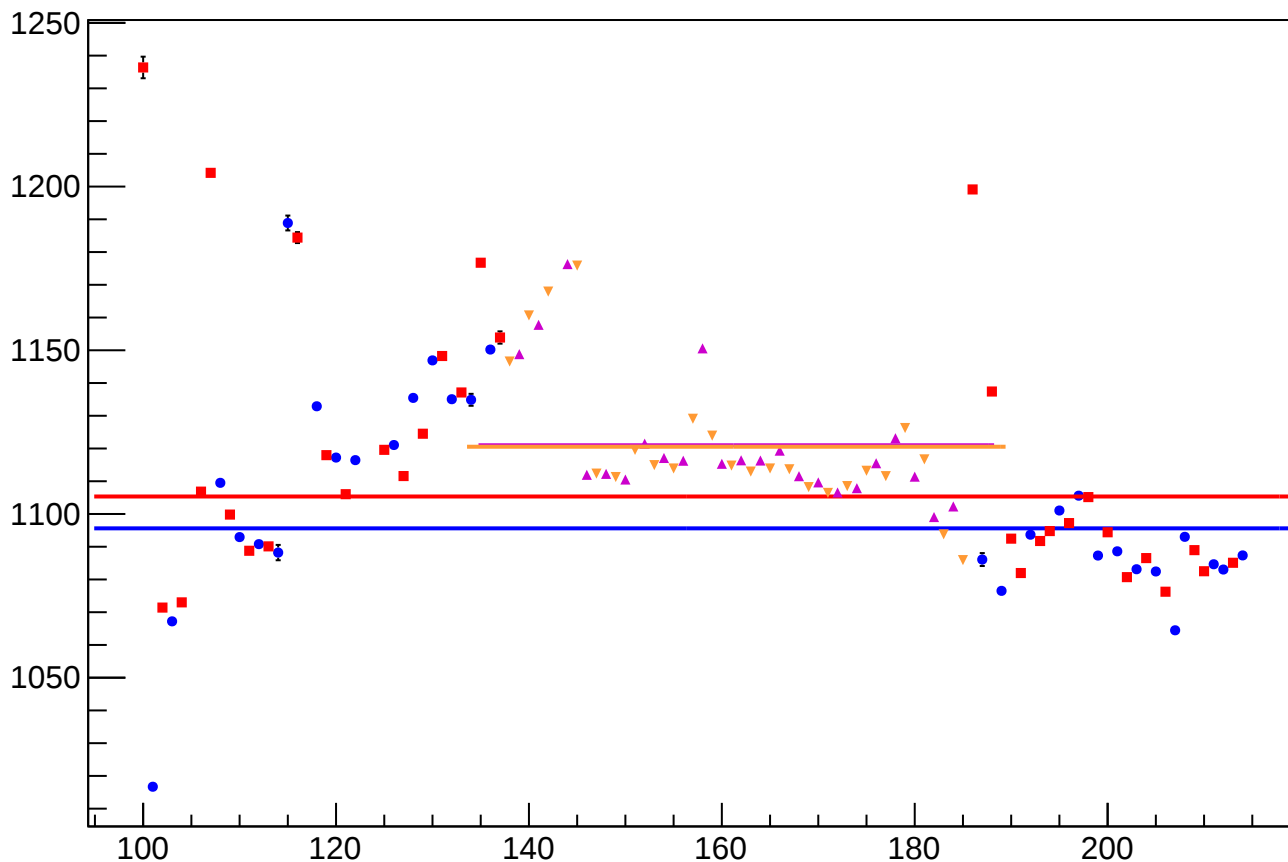
Right: 2091.099 $\pm$ 189.248 χ^2 /NDF: 43.0/62

In: 1974.076 $\pm$ 189.726 χ^2 /NDF:44.7/52

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

All: 1913.860 $\pm$ 133.693 χ^2 /NDF: 92.8/109

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1095.613 $\pm$ 0.190 χ^2 /NDF: 23204.1/29

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

Right Out: 1105.343 $\pm$ 0.189 χ^2 /NDF: 28262.5/32

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

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

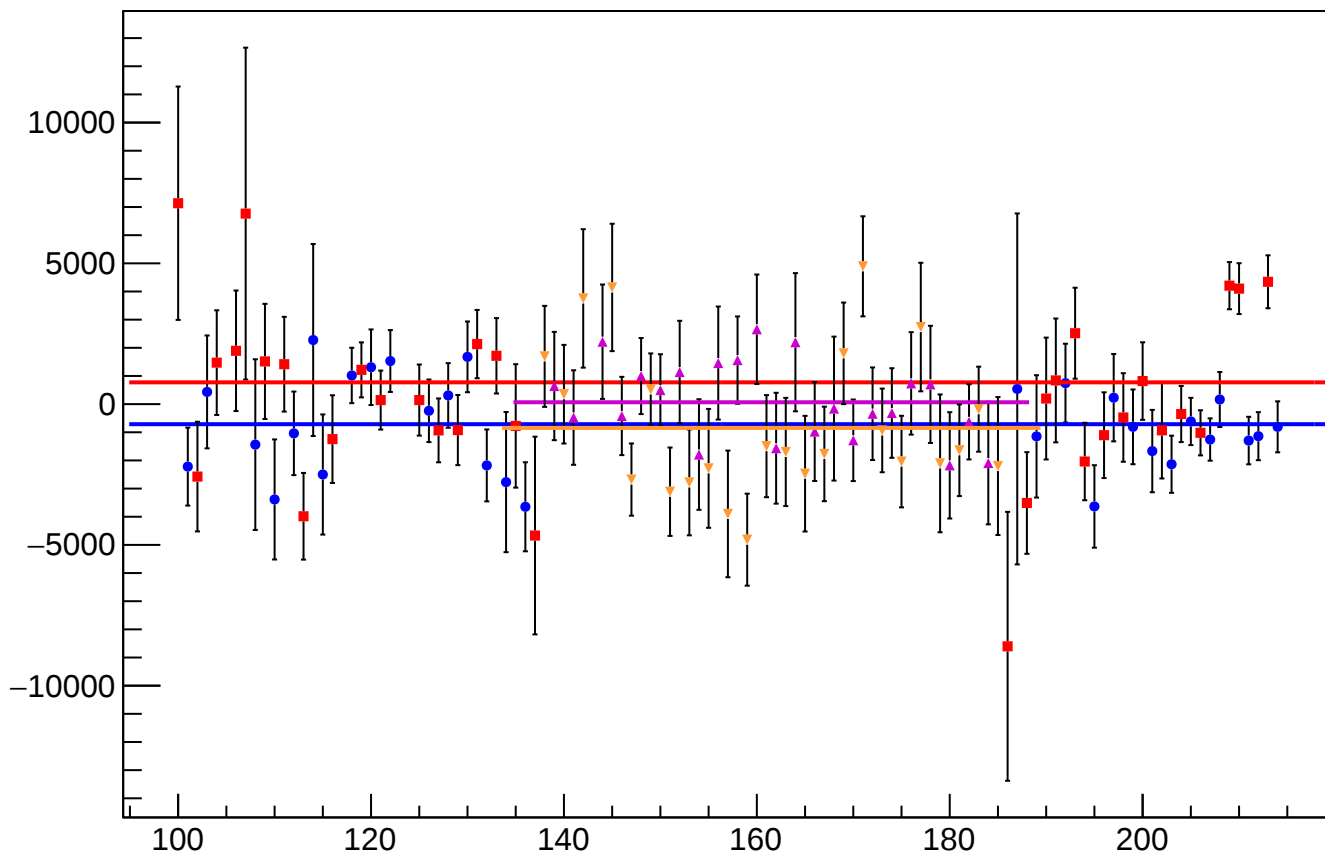
Right: 1100.513 $\pm$ 0.134 χ^2 /NDF: 52788.2/62

In: 1108.331 $\pm$ 0.134 χ^2 /NDF:41792.0/52

Out: 1112.954 $\pm$ 0.133 χ^2 /NDF:41769.2/56

All: 1110.658 $\pm$ 0.095 χ^2 /NDF: 84159.1/109

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -712.549 ± 226.318 $\chi^2/\text{NDF}: 34.2/29$

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

Right Out: 772.927 ± 238.658 $\chi^2/\text{NDF}: 97.0/32$

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

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

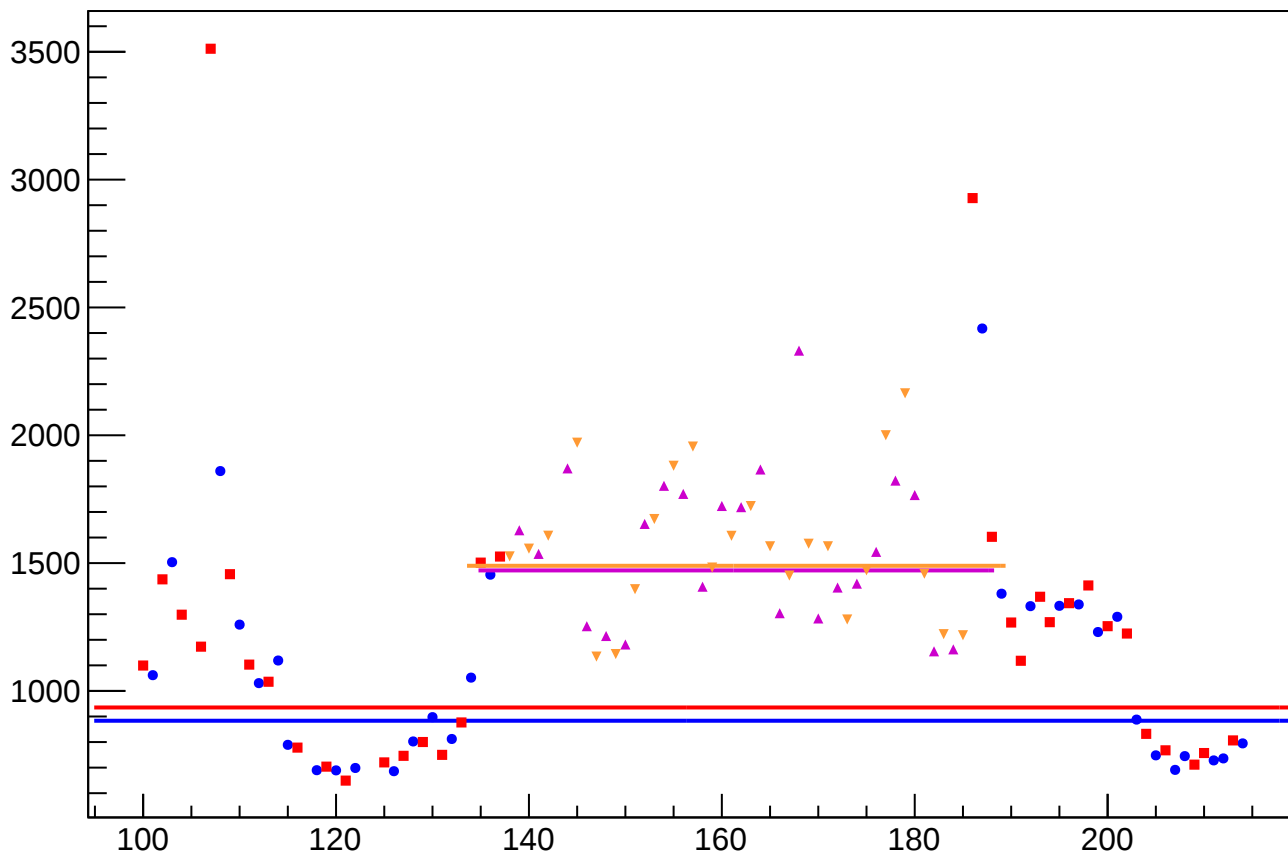
Right: -9.206 ± 164.220 $\chi^2/\text{NDF}: 151.6/62$

In: -491.019 ± 191.417 $\chi^2/\text{NDF}: 49.7/52$

Out: 281.128 ± 199.109 $\chi^2/\text{NDF}: 154.2/56$

All: -120.146 ± 137.991 $\chi^2/\text{NDF}: 211.7/109$

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 883.378+/-0.160 χ^2/NDF : 2505295.7/29

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

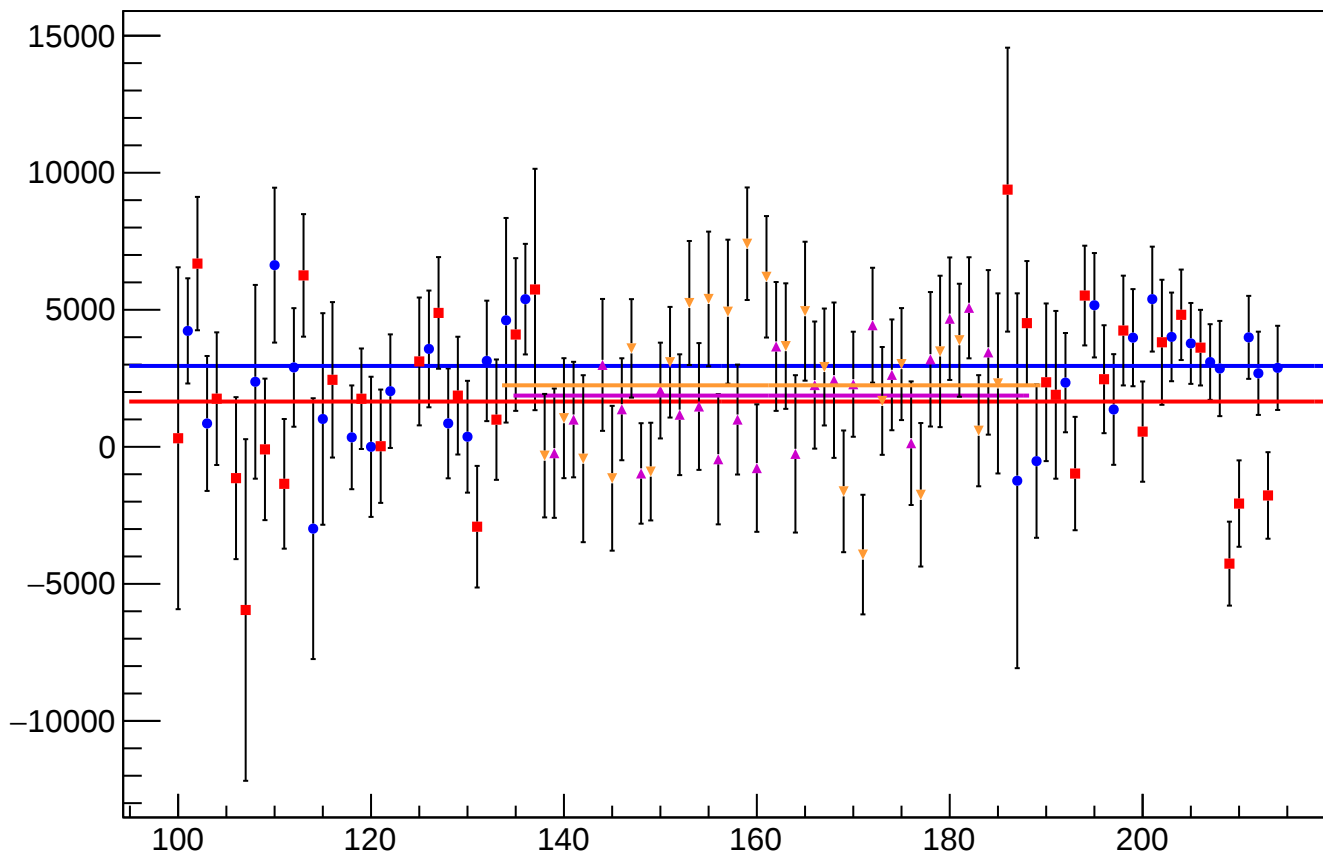
Right: 907.949+/-0.116 χ^2/NDF : 5794682.3/62

In: 1050.749+/-0.135 χ^2/NDF :7453555.3/52

Out: 1103.742+/-0.141 χ^2/NDF :7527460.2/56

All: 1076.202+/-0.098 χ^2/NDF : 15054639.4/100

asym_usl_mean vs Slug, Sign Corrected



Right In: 2951.480+/-367.014 χ^2/NDF : 19.8/29

Left Out: 2244.415+/-456.474 χ^2/NDF : 38.6/23

Right Out: 1652.331+/-376.919 χ^2/NDF : 66.6/32

Left In: 1869.792+/-455.465 χ^2/NDF : 14.9/22

Left: 2056.689+/-322.419 χ^2/NDF : 53.8/46

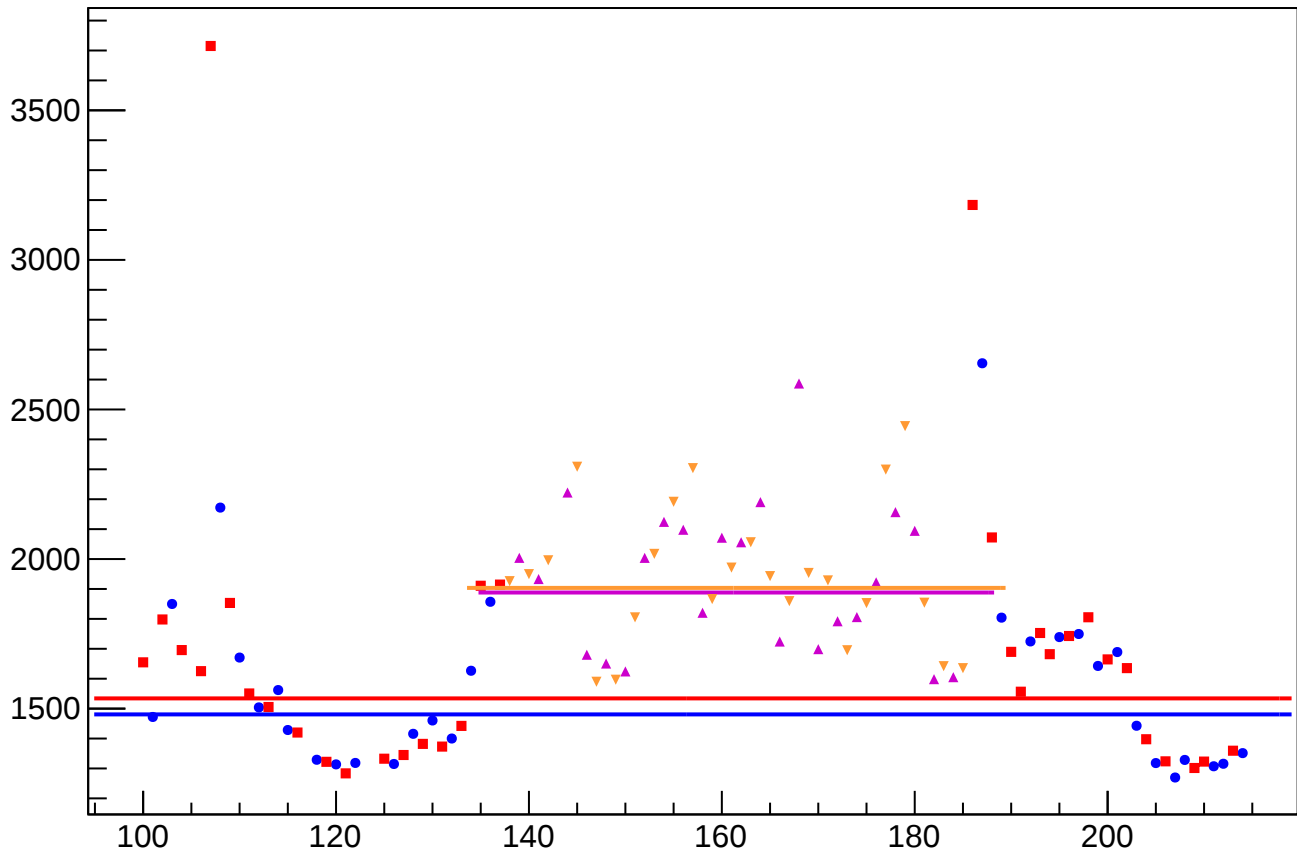
Right: 2319.201+/-262.950 χ^2/NDF : 92.5/62

In: 2525.633+/-285.779 χ^2/NDF : 38.1/52

Out: 1892.363+/-290.643 χ^2/NDF : 106.2/56

All: 2214.341+/-203.774 χ^2/NDF : 146.7/109

asym_usl_rms vs Slug, Sign Corrected



Right In: 1480.687+/-0.260 χ^2/NDF : 641300.3/29

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

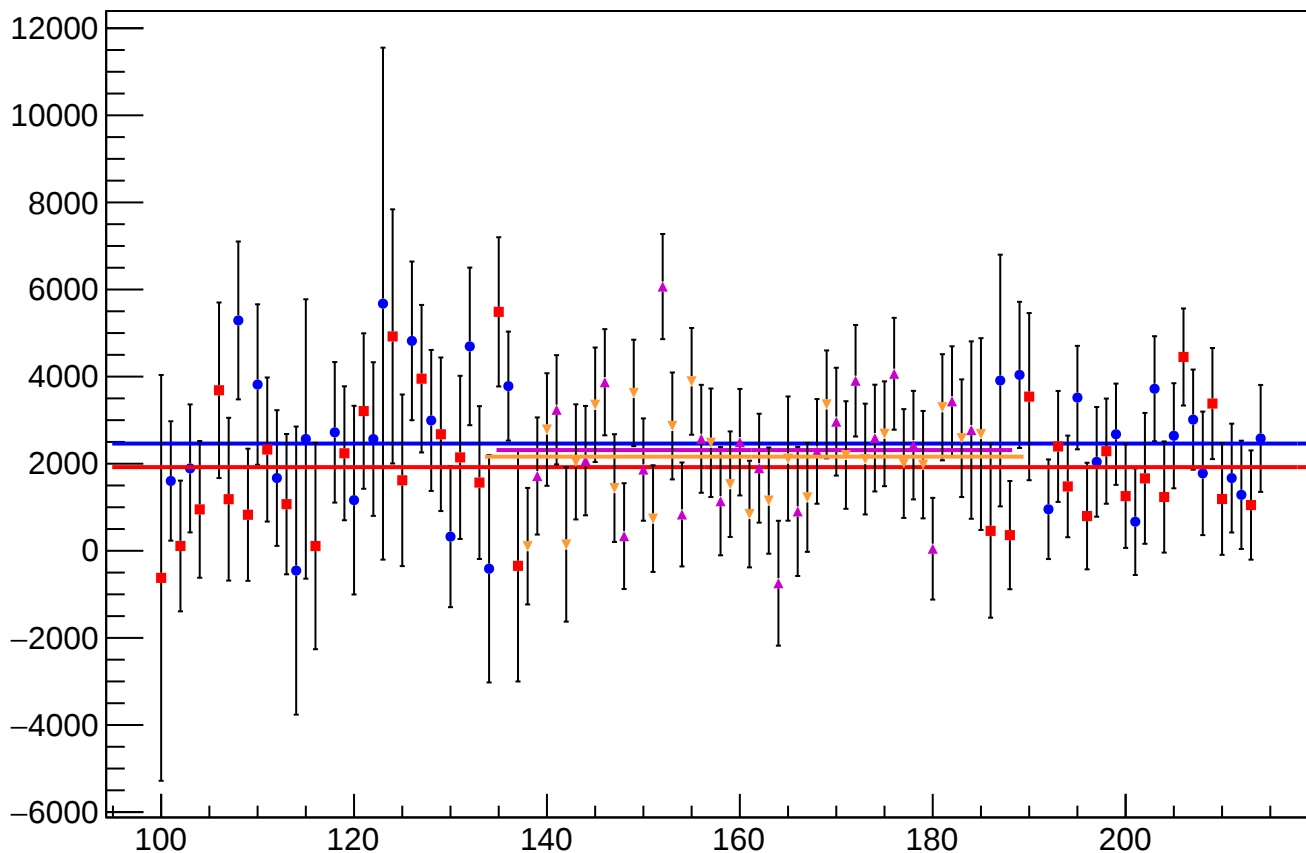
Right: 1506.718+/-0.186 χ^2/NDF : 1737151.2/62

In: 1641.089+/-0.202 χ^2/NDF : 2116226.9/52

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

All: 1662.149+/-0.144 χ^2/NDF : 4454100.6/100

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2462.608 $\pm$ 268.612 χ^2 /NDF: 21.4/30

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

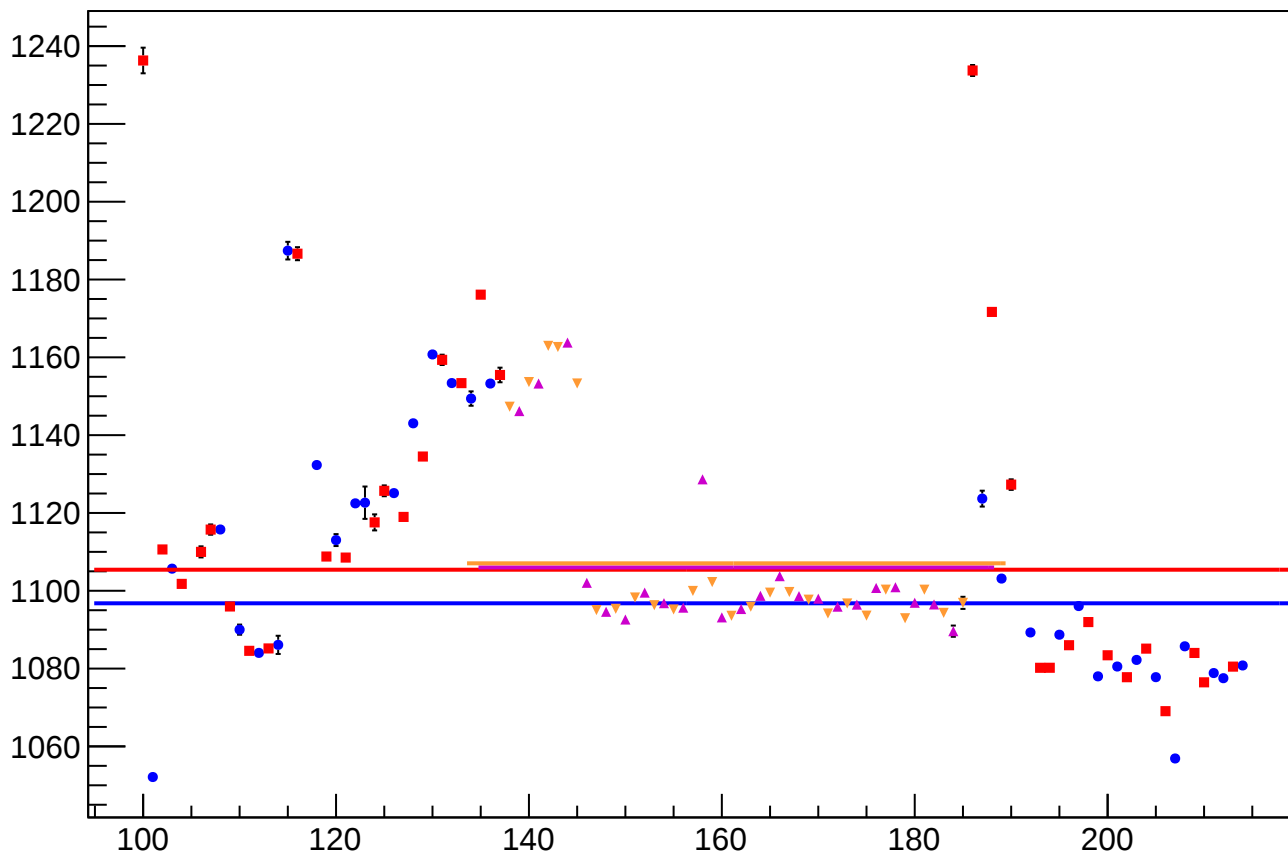
Right: 2190.926 $\pm$ 189.574 χ^2 /NDF: 48.3/63

In: 2386.886 $\pm$ 188.441 χ^2 /NDF:52.9/53

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

All: 2213.795 $\pm$ 132.214 χ^2 /NDF: 94.9/111

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1096.780 $\pm$ 0.190 χ^2 /NDF: 23612.0/30

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

Right Out: 1105.413 $\pm$ 0.189 χ^2 /NDF: 36016.3/32

Left In: 1105.997 $\pm$ 0.187 χ^2 /NDF: 11551.3/22

Left: 1106.541 $\pm$ 0.130 χ^2 /NDF: 26743.4/47

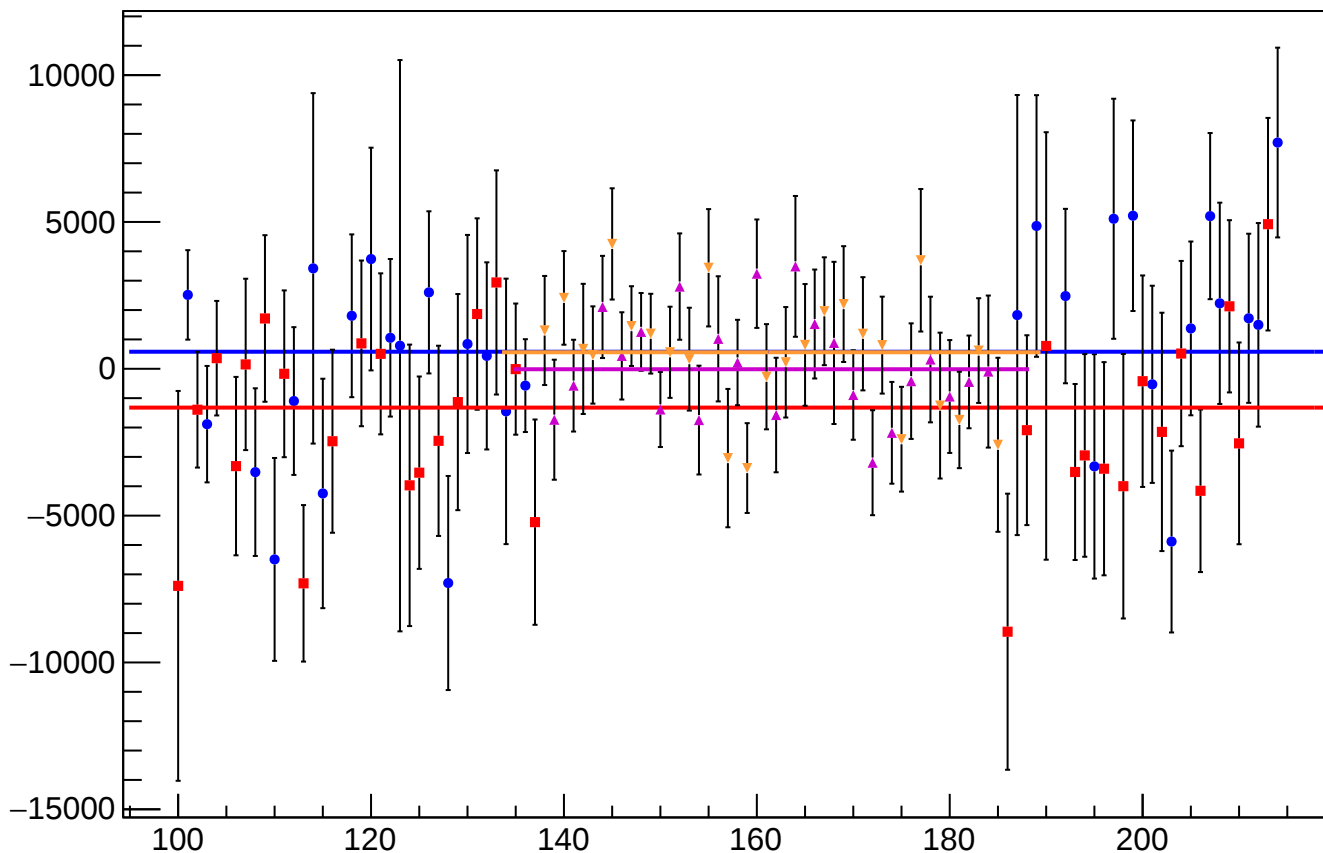
Right: 1101.113 $\pm$ 0.134 χ^2 /NDF: 60665.1/63

In: 1101.461 $\pm$ 0.133 χ^2 /NDF: 36359.1/53

Out: 1106.266 $\pm$ 0.131 χ^2 /NDF: 51231.1/57

All: 1103.901 $\pm$ 0.093 χ^2 /NDF: 88250.6/111

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 580.769+/-531.404 χ^2/NDF : 36.7/30

Left Out: 563.282+/-360.901 χ^2/NDF : 26.8/24

Right Out: -1321.739+/-542.507 χ^2/NDF : 24.7/32

Left In: -15.520+/-366.854 χ^2/NDF : 20.1/22

Left: 278.615+/-257.275 χ^2/NDF : 48.2/47

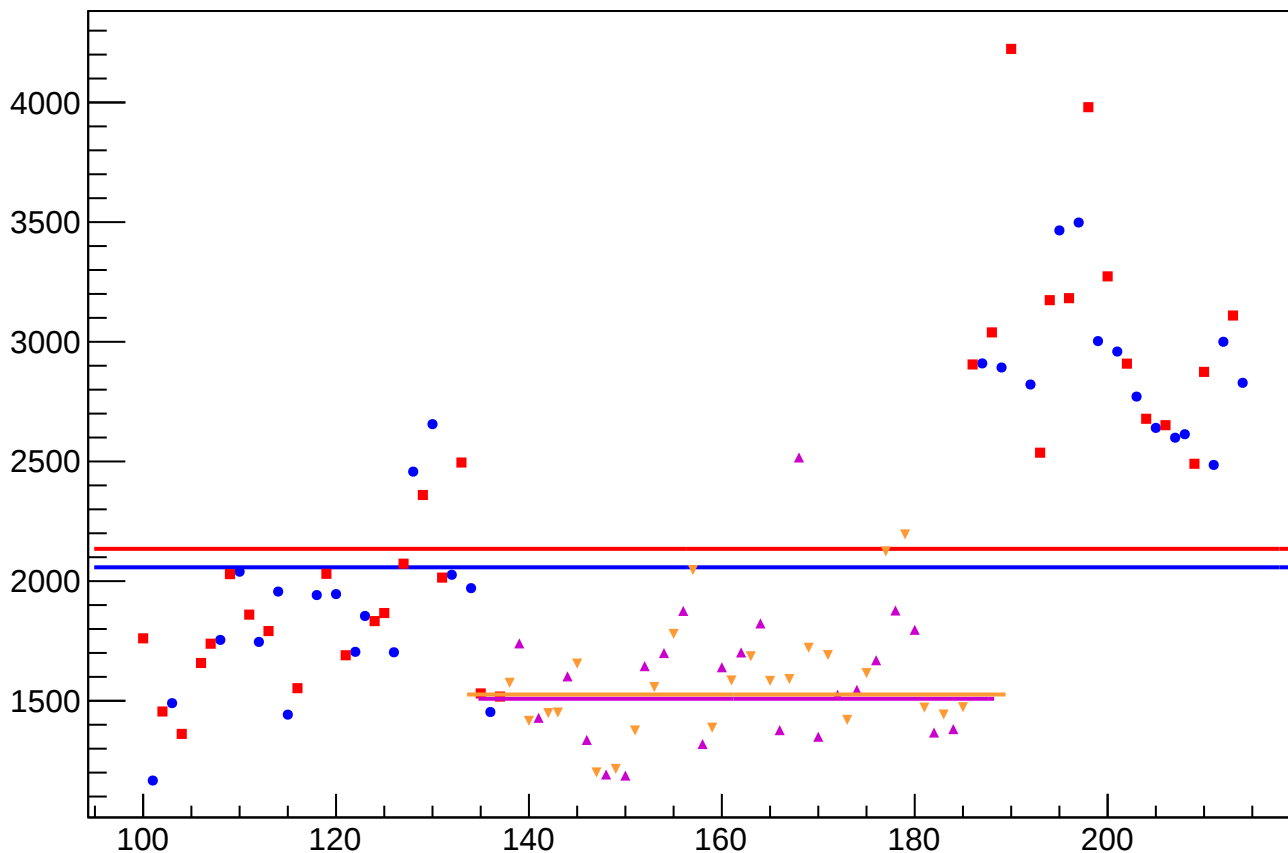
Right: -350.817+/-379.624 χ^2/NDF : 67.6/63

In: 176.938+/-301.901 χ^2/NDF : 57.7/53

Out: -15.014+/-300.485 χ^2/NDF : 59.8/57

All: 80.511+/-212.974 χ^2/NDF : 117.7/111

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 2057.795 $\pm$ 0.376 χ^2 /NDF: 3072433.9/30

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

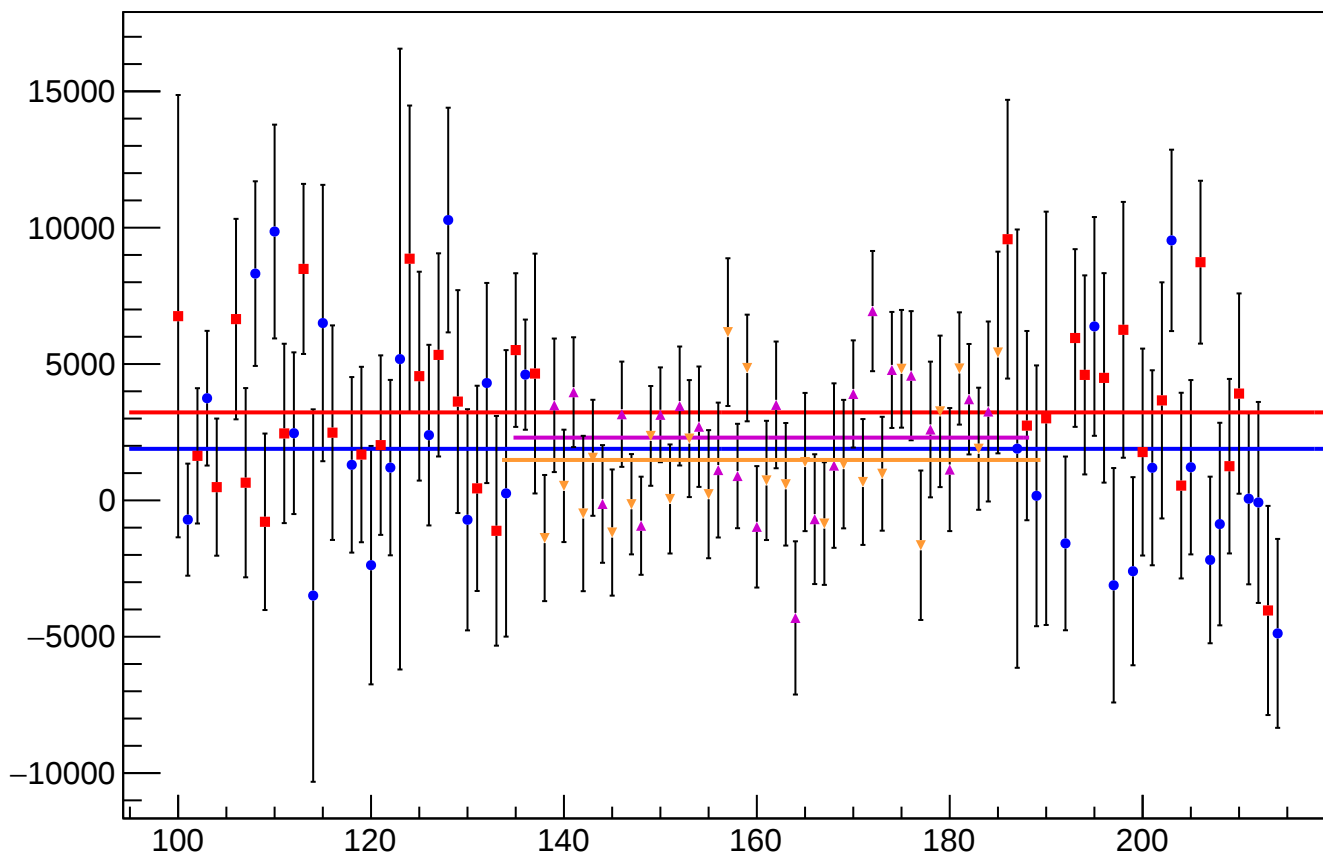
Right: 2095.566 $\pm$ 0.268 χ^2 /NDF: 5940184.7/63

In: 1685.845 $\pm$ 0.213 χ^2 /NDF: 5450907.8/53

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

All: 1699.528 $\pm$ 0.151 χ^2 /NDF: 10804404.4/111

asym_usr_mean vs Slug, Sign Corrected



Right In: 1889.922 $\pm$ 619.035 χ^2 /NDF: 37.2/30

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

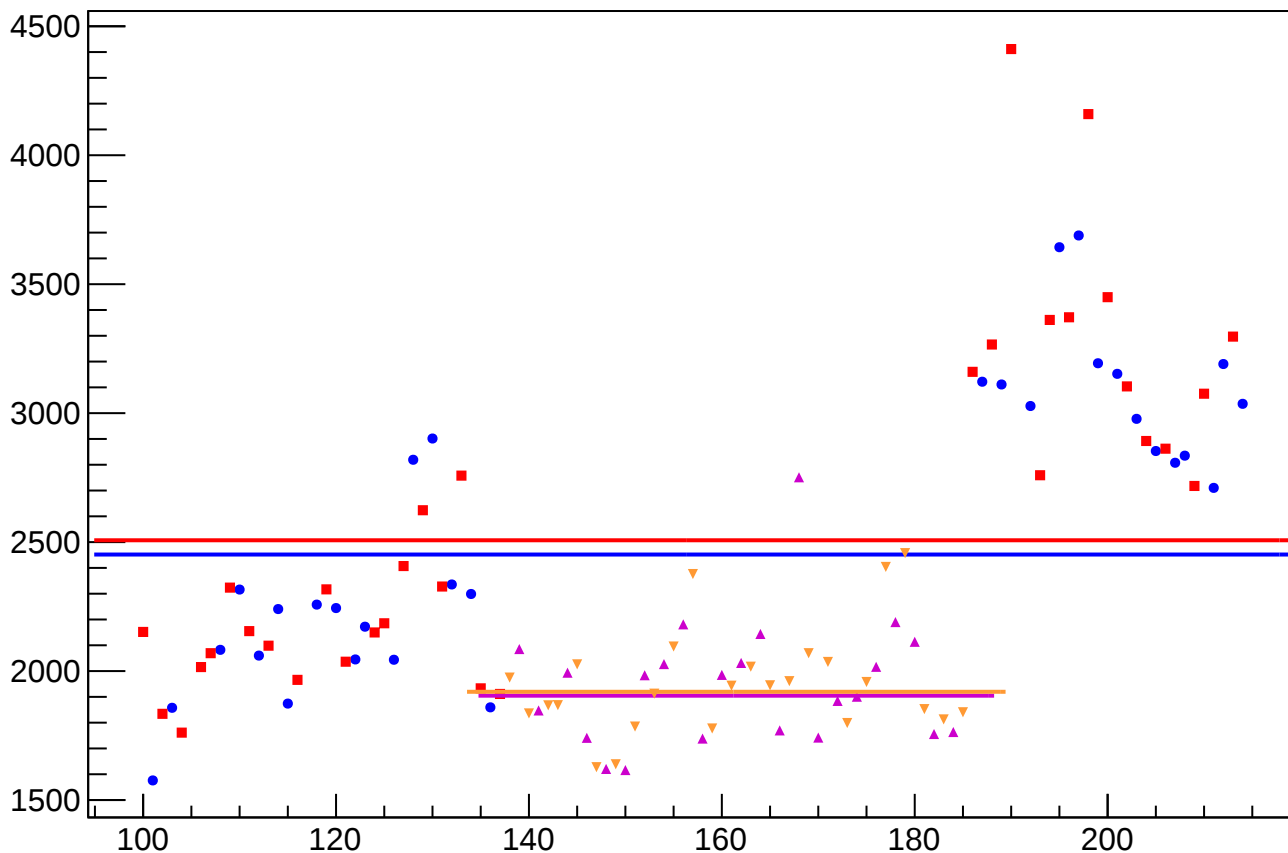
Right: 2551.157 $\pm$ 439.989 χ^2 /NDF: 62.5/63

In: 2155.313 $\pm$ 368.724 χ^2 /NDF: 62.3/53

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

All: 2115.842 $\pm$ 259.501 χ^2 /NDF: 111.3/111

asym_usr_rms vs Slug, Sign Corrected



Right In: 2451.860+/-0.438 χ^2/NDF : 1769174.4/30

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

Right Out: 2507.138+/-0.442 χ^2/NDF : 1782929.1/32

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

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

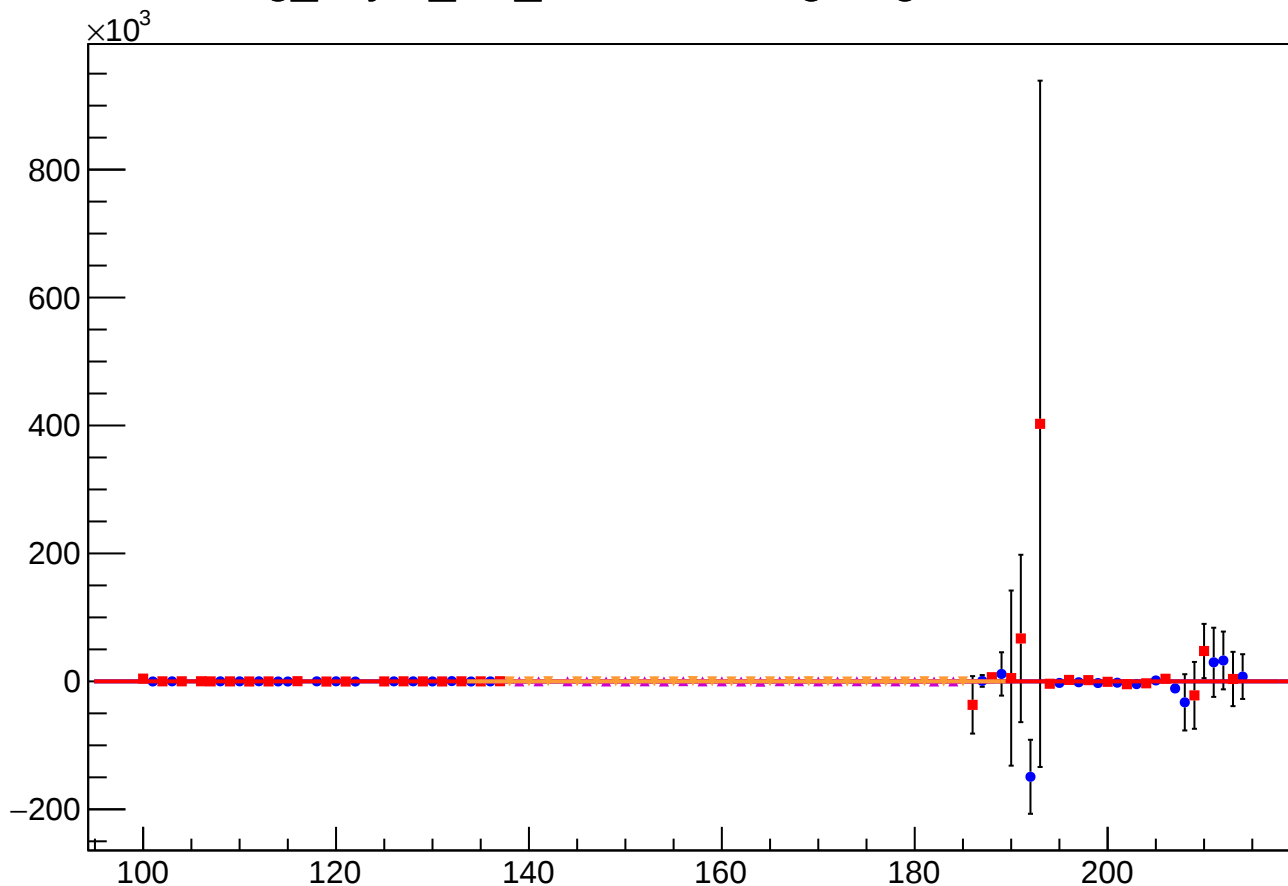
Right: 2479.212+/-0.311 χ^2/NDF : 3559994.7/63

In: 2098.781+/-0.261 χ^2/NDF : 3224949.1/53

Out: 2120.061+/-0.258 χ^2/NDF : 3311454.4/57

All: 2109.521+/-0.183 χ^2/NDF : 6539765.4/111

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.334 ± 36.762 $\chi^2/\text{NDF}: 32.9/29$

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 $\chi^2/\text{NDF}: 72.4/46$

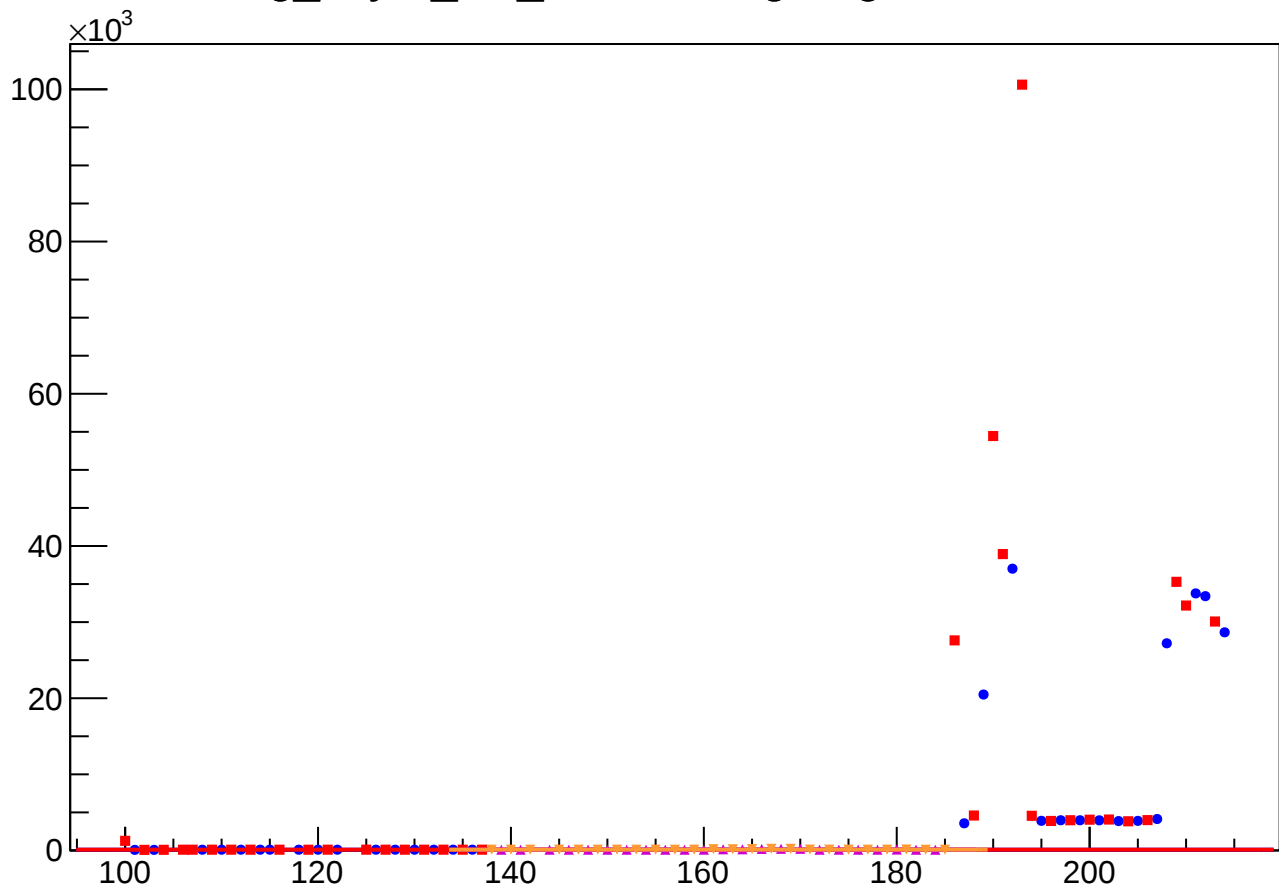
Right: -0.238 ± 25.989 $\chi^2/\text{NDF}: 53.8/62$

In: 15.585 ± 21.413 $\chi^2/\text{NDF}: 69.7/52$

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

All: 12.156 ± 15.124 $\chi^2/\text{NDF}: 126.6/109$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.124+/-0.026

χ^2/NDF : 16784949.5/29

Left: 107.867+/-0.013

χ^2/NDF : 2926230.6/46

Left Out: 108.059+/-0.019

χ^2/NDF : 1434979.3/23

Right: 97.209+/-0.018

χ^2/NDF : 32332771.5/62

Right Out: 98.293+/-0.026

χ^2/NDF : 15544339.4/32

In: 103.754+/-0.015

χ^2/NDF : 18406394.8/52

Out: 104.758+/-0.015

χ^2/NDF : 17072839.3/56

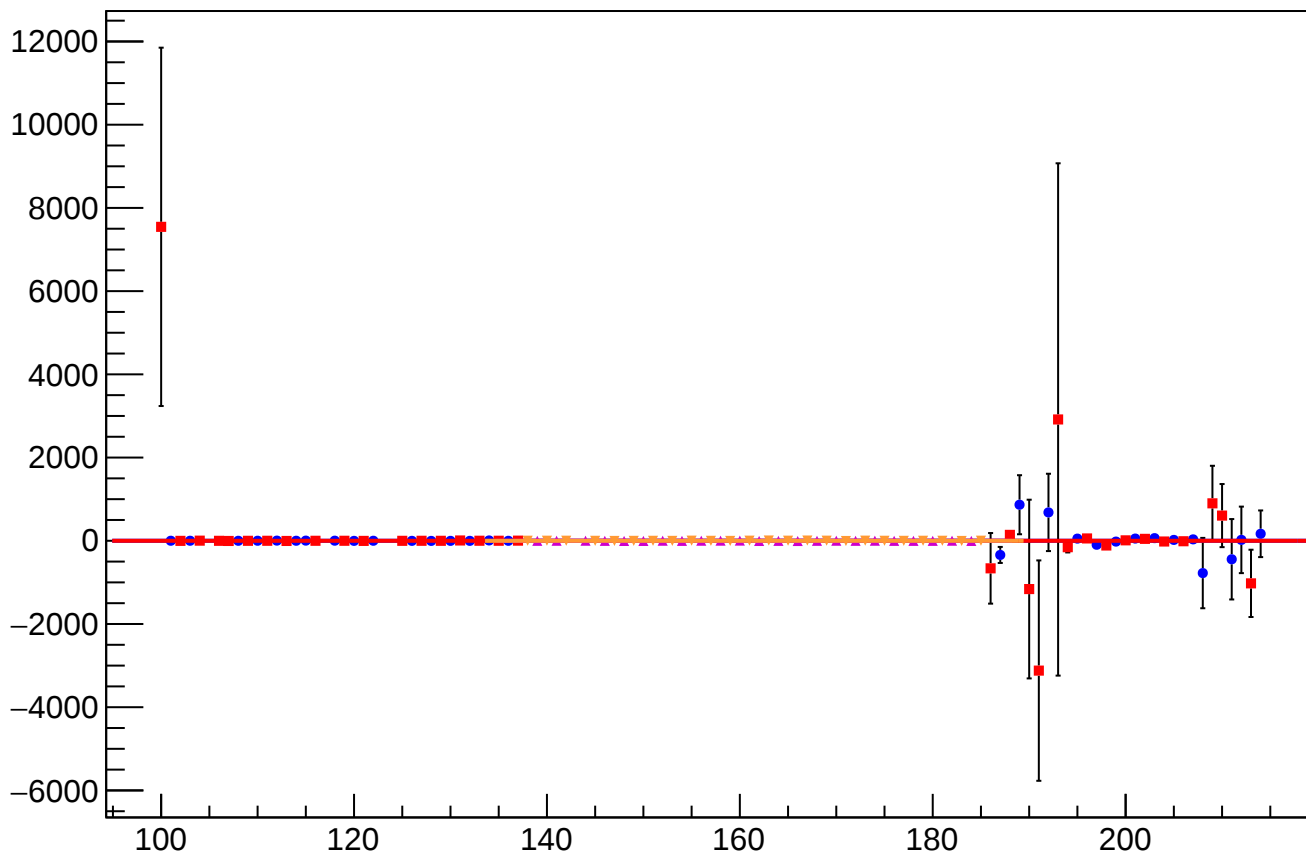
Left In: 107.672+/-0.019

χ^2/NDF : 1491034.7/22

All: 104.257+/-0.011

χ^2/NDF : 35481436.5/10

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.397 ± 0.617 χ^2/NDF : 20.6/29

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

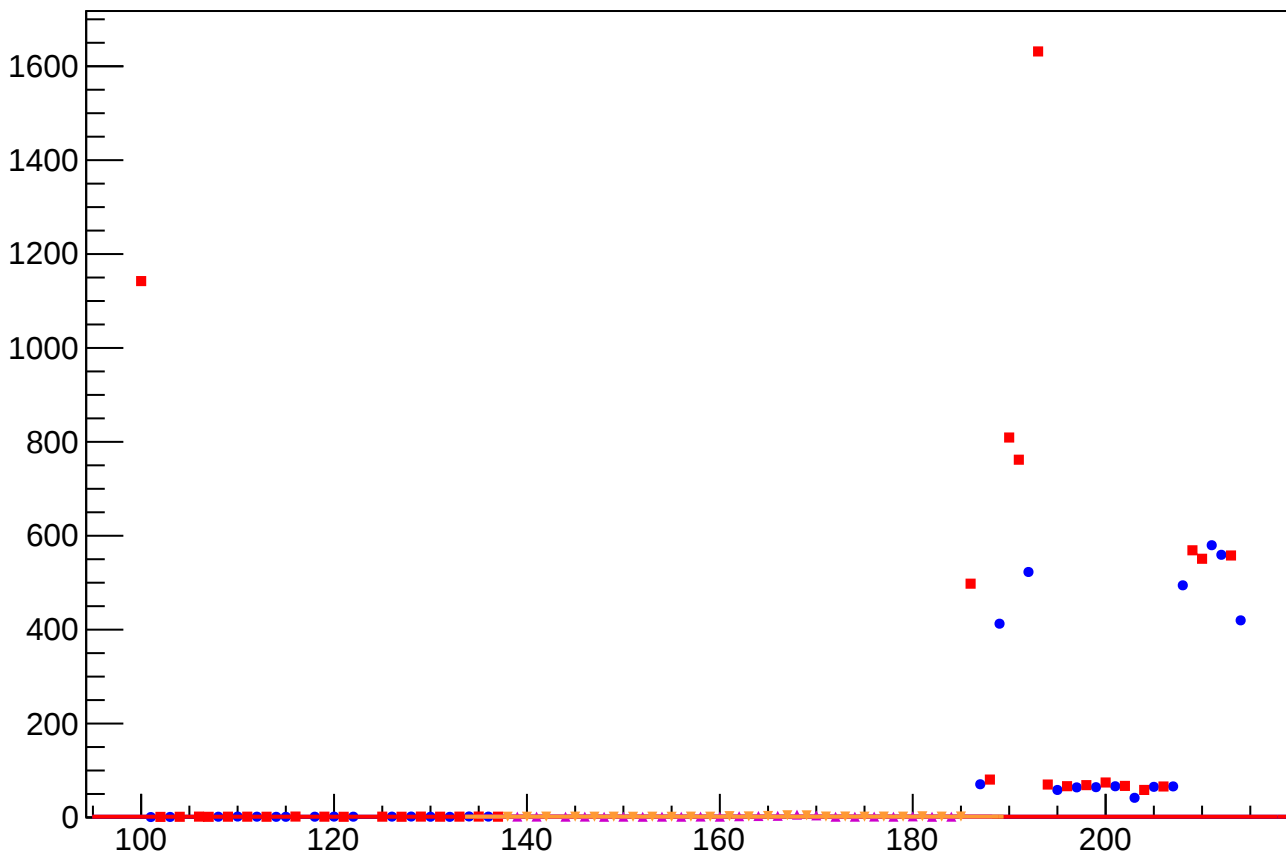
Right: 0.041 ± 0.445 χ^2/NDF : 54.2/62

In: 0.110 ± 0.381 χ^2/NDF : 45.9/52

Out: -0.468 ± 0.382 χ^2/NDF : 63.5/56

All: -0.178 ± 0.270 χ^2/NDF : 110.5/109

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.451+/-0.000 χ^2/NDF : 14573230.7/29

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

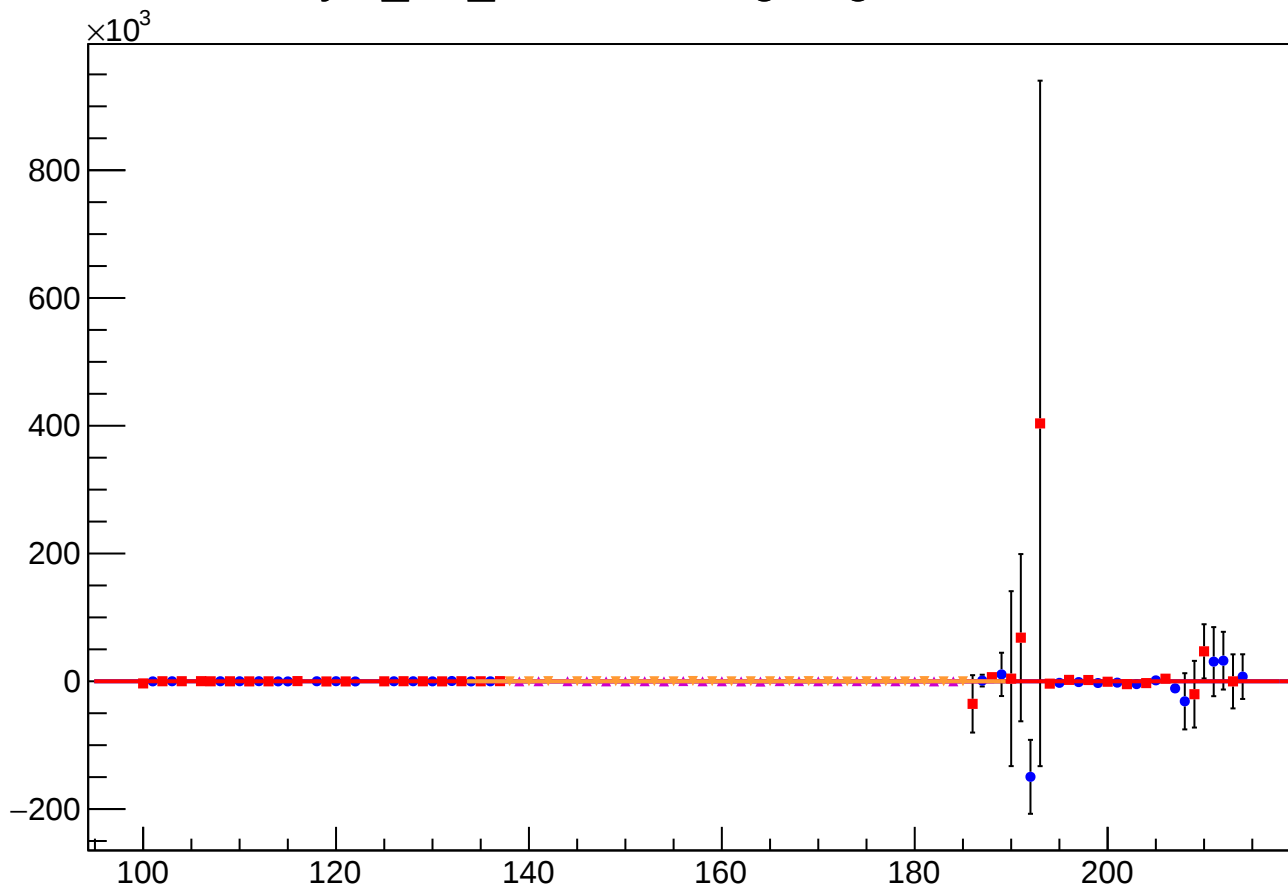
Right: 1.515+/-0.000 χ^2/NDF : 28349529.8/62

In: 1.668+/-0.000 χ^2/NDF :16896012.3/52

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

All: 1.687+/-0.000 χ^2/NDF : 32344233.5/109

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.047 ± 36.771 χ^2/NDF : 33.1/29

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

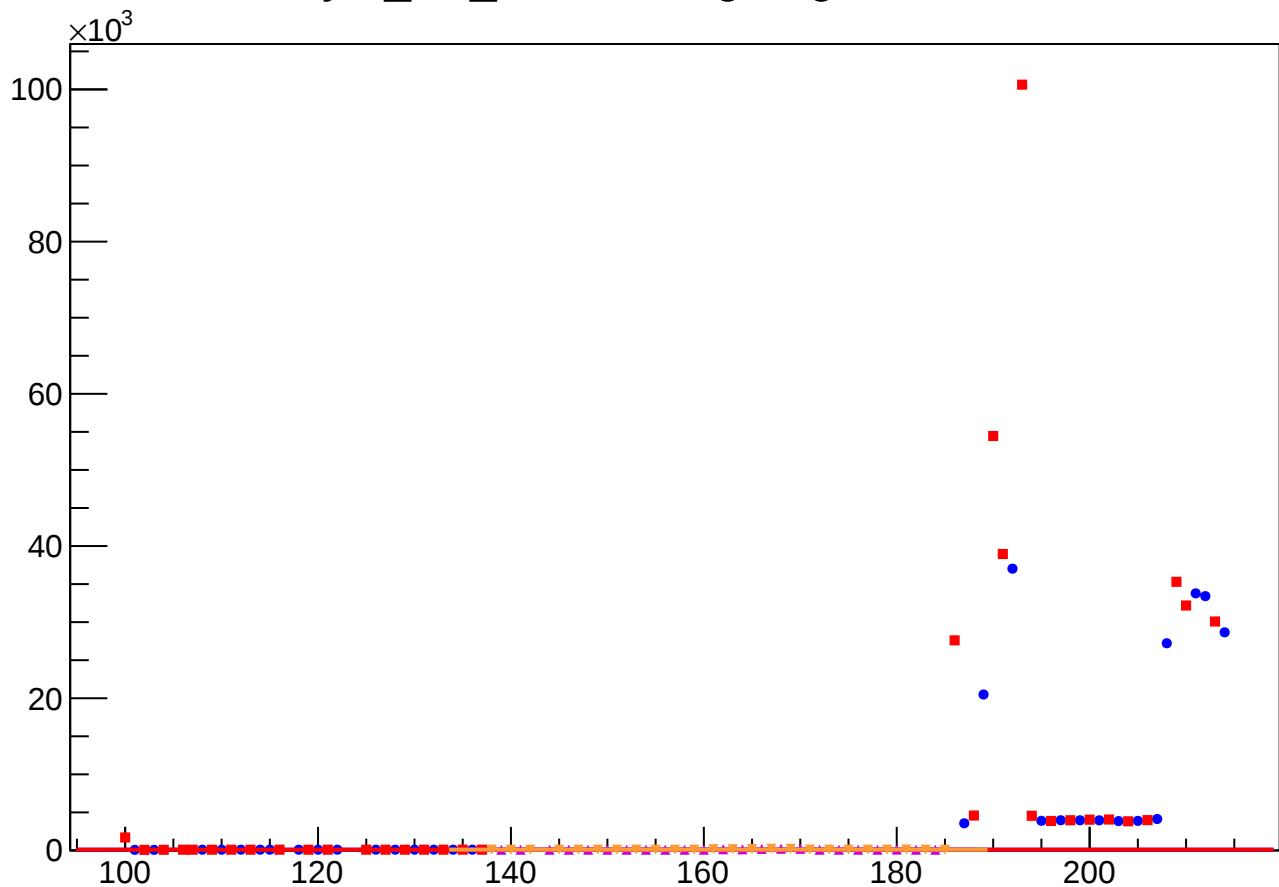
Right: -0.213 ± 25.996 χ^2/NDF : 53.4/62

In: 16.029 ± 21.419 χ^2/NDF : 69.2/52

Out: 9.118 ± 21.372 χ^2/NDF : 56.1/56

All: 12.566 ± 15.129 χ^2/NDF : 125.3/109

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.149 $\pm$ 0.026 χ^2 /NDF: 16784947.9/29

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

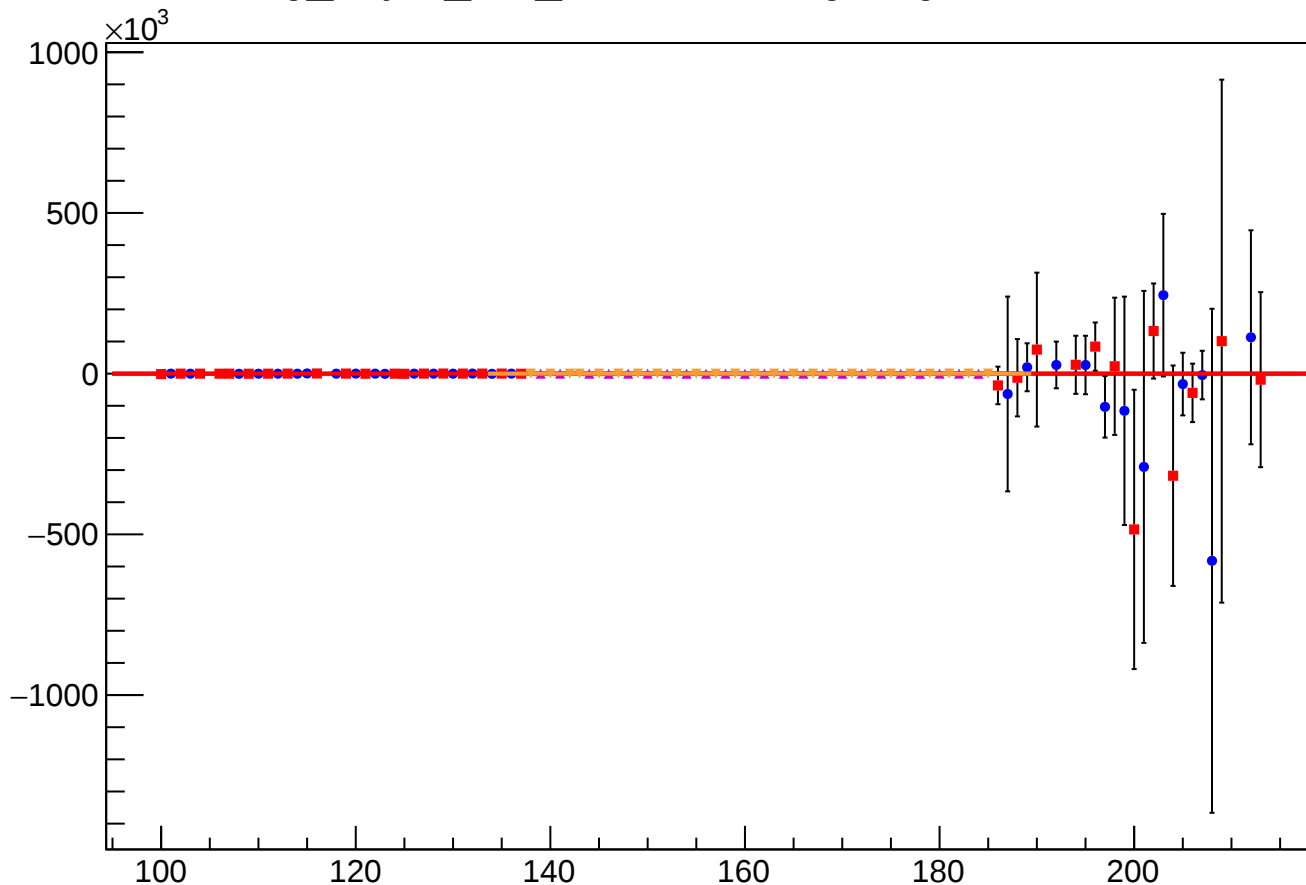
Right: 97.226 $\pm$ 0.018 χ^2 /NDF: 32338025.0/62

In: 103.783 $\pm$ 0.015 χ^2 /NDF: 18407760.4/52

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

All: 104.283 $\pm$ 0.011 χ^2 /NDF: 35489832.2/100

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

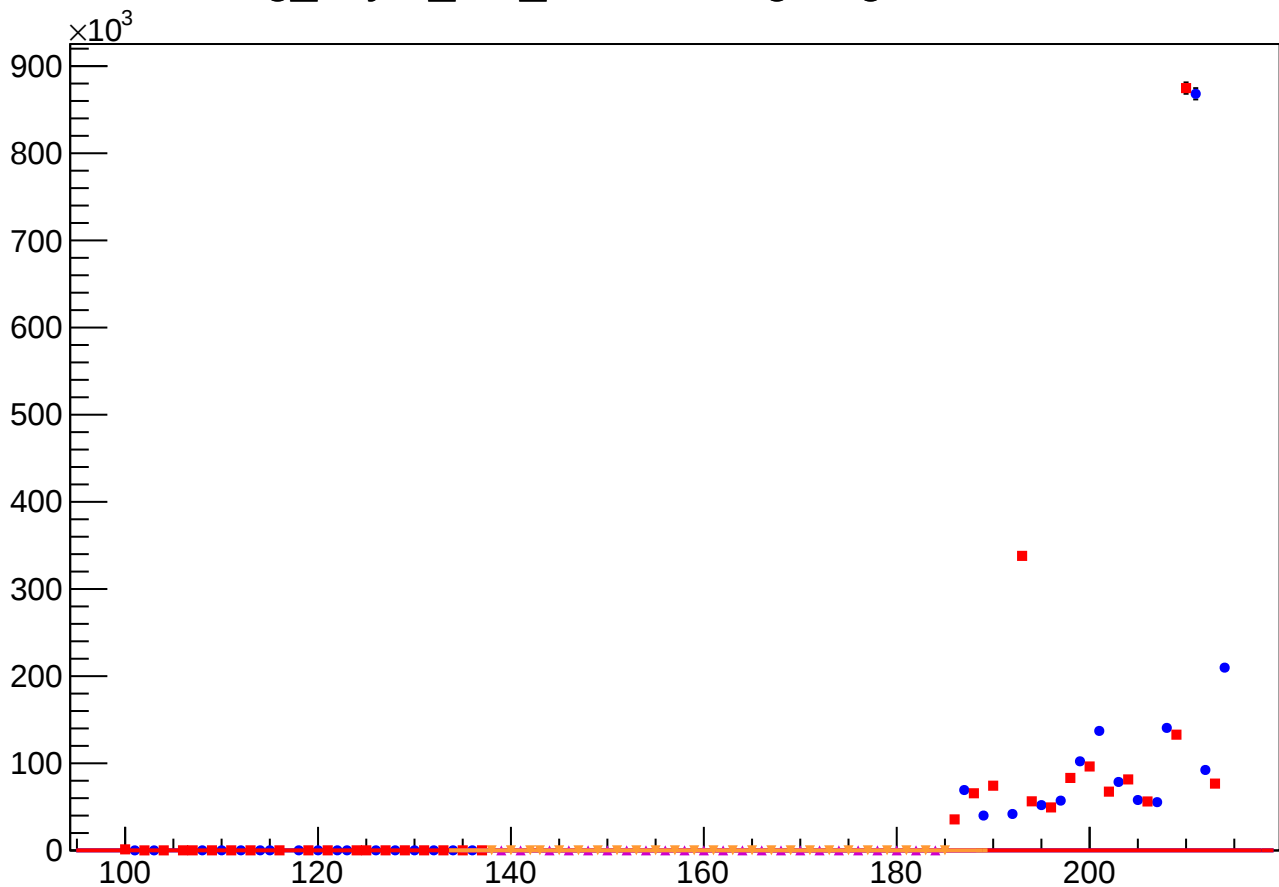
Right: 12.502 $\pm$ 33.447 χ^2 /NDF: 40.1/59

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 $\pm$ 0.033 χ^2 /NDF: 6769938.9/30

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

Right Out: 124.841 $\pm$ 0.034 χ^2 /NDF: 6452371.0/32

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

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

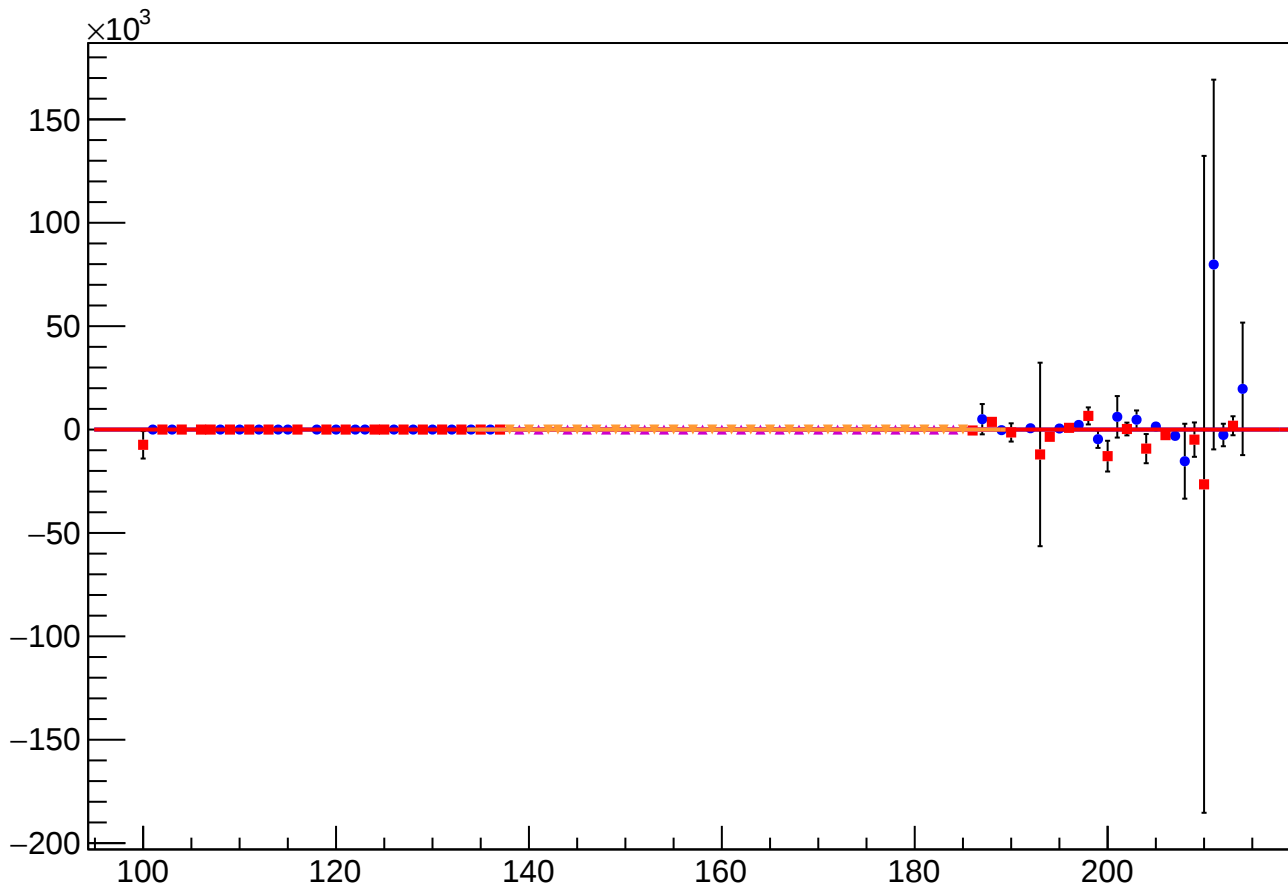
Right: 121.292 $\pm$ 0.024 χ^2 /NDF: 13243954.1/63

In: 131.211 $\pm$ 0.019 χ^2 /NDF:7012497.6/53

Out: 133.815 $\pm$ 0.019 χ^2 /NDF:6555165.1/57

All: 132.528 $\pm$ 0.013 χ^2 /NDF: 13577113.3/113

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 25.4/30

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

Right Out: -0.639 ± 0.852 χ^2/NDF : 32.7/32

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

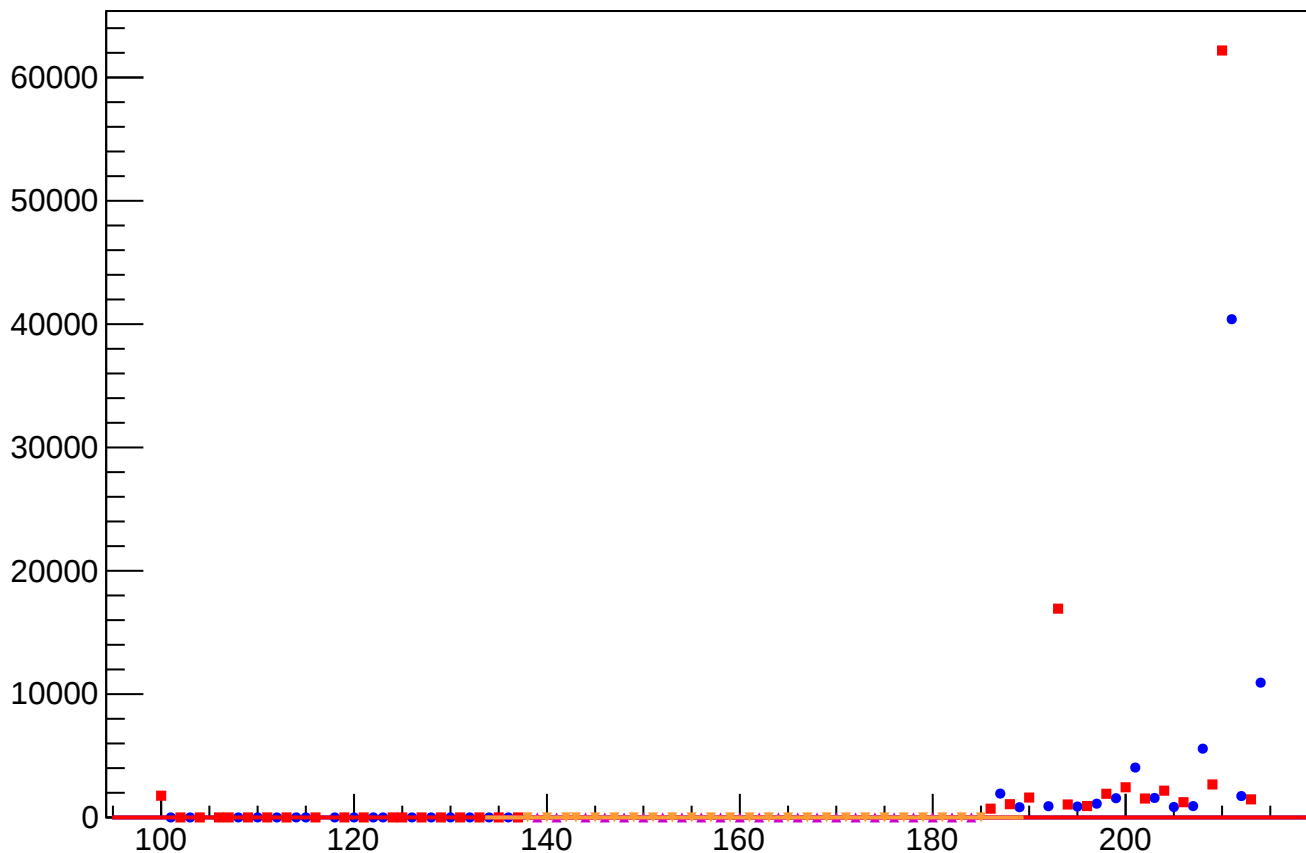
Right: -0.681 ± 0.587 χ^2/NDF : 58.1/63

In: -0.052 ± 0.471 χ^2/NDF : 47.1/53

Out: 0.139 ± 0.475 χ^2/NDF : 62.9/57

All: 0.043 ± 0.334 χ^2/NDF : 110.1/111

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867+/-0.001 χ^2/NDF : 6663544.3/30

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

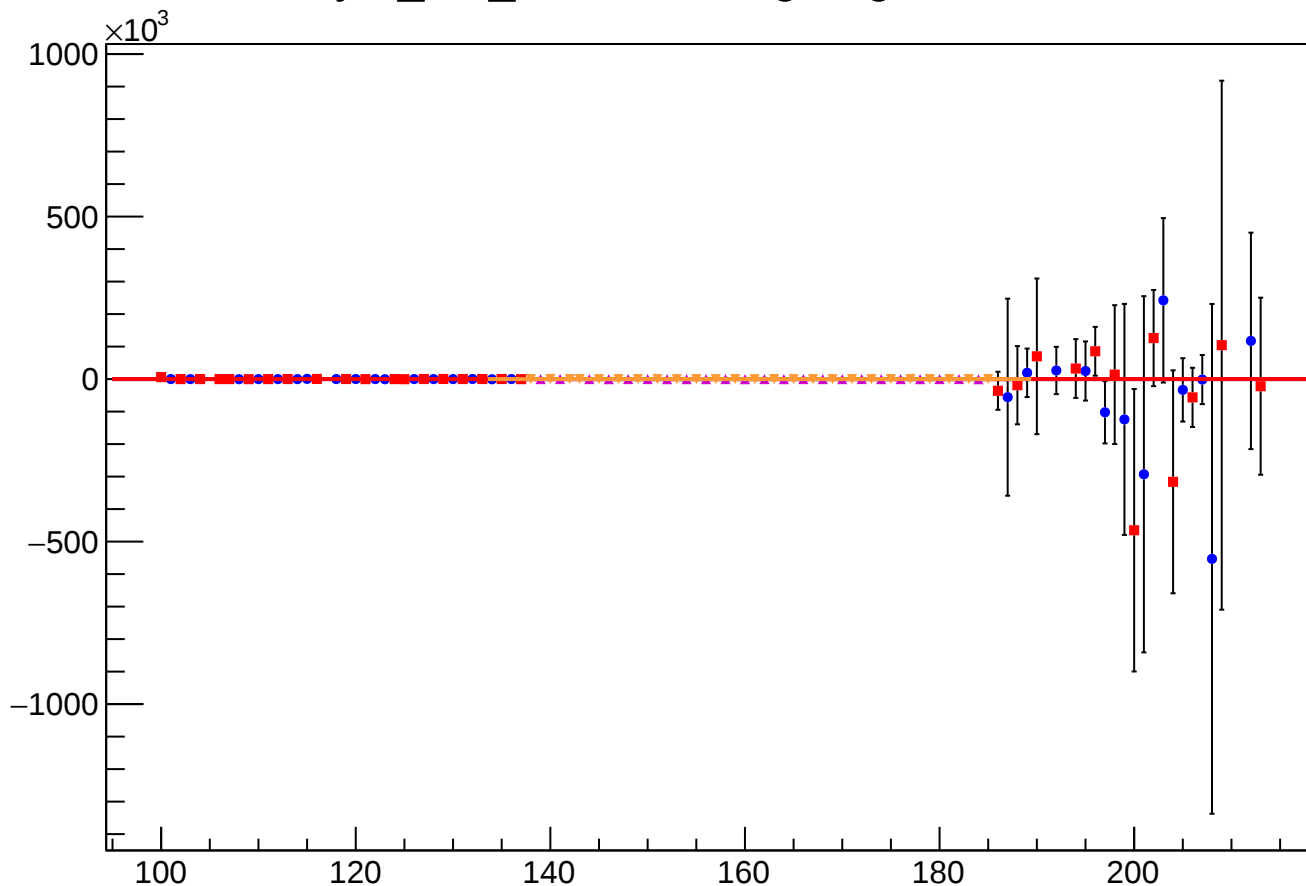
Right: 1.961+/-0.000 χ^2/NDF : 13510470.7/63

In: 2.083+/-0.000 χ^2/NDF : 7388753.4/53

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

All: 2.141+/-0.000 χ^2/NDF : 14689551.4/111

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.064 ± 46.854 $\chi^2/\text{NDF}: 18.0/28$

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

Right Out: 54.291 ± 47.789 $\chi^2/\text{NDF}: 21.1/30$

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

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

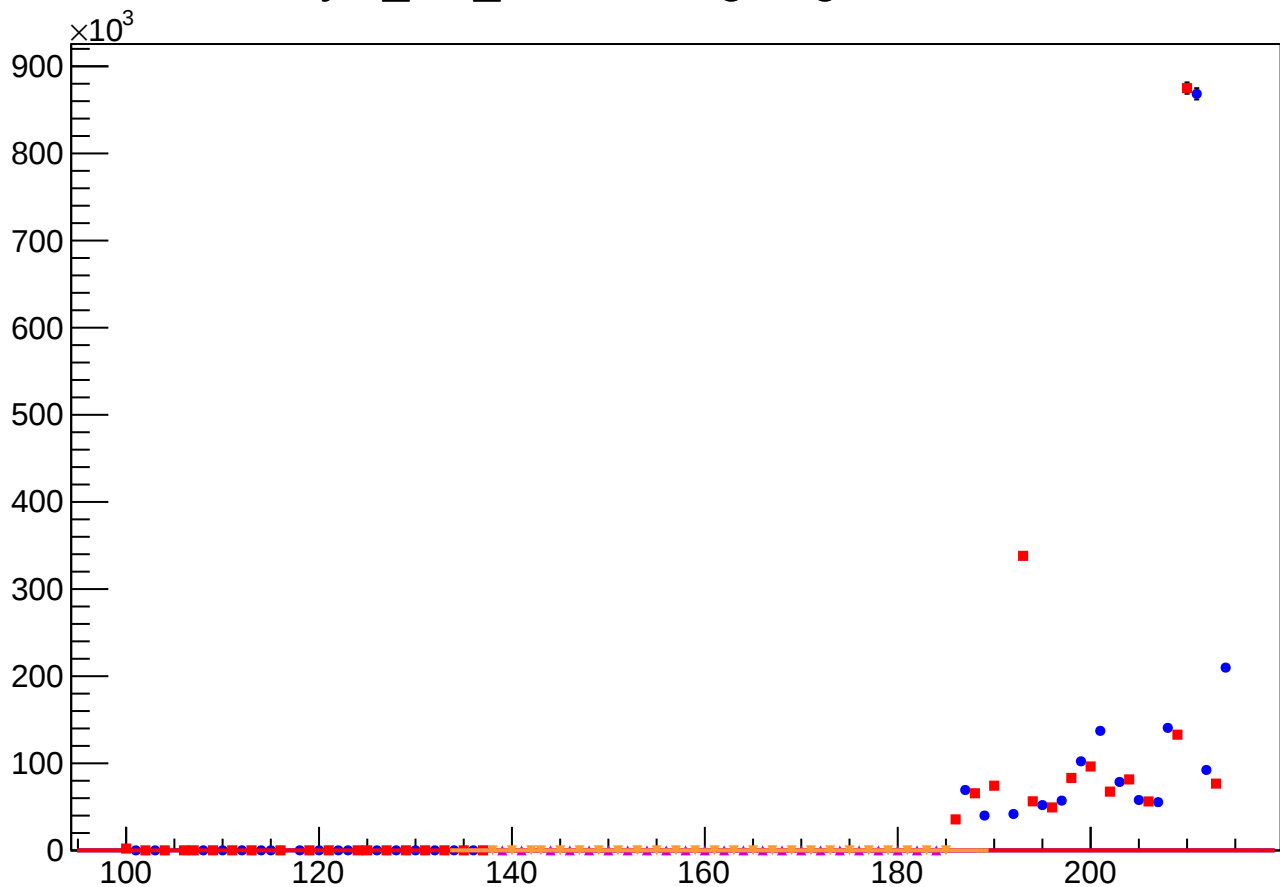
Right: 13.830 ± 33.456 $\chi^2/\text{NDF}: 40.5/59$

In: -51.938 ± 26.954 $\chi^2/\text{NDF}: 37.9/51$

Out: 7.632 ± 26.631 $\chi^2/\text{NDF}: 34.3/55$

All: -21.793 ± 18.944 $\chi^2/\text{NDF}: 74.6/107$

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.912 $\pm$ 0.033 χ^2 /NDF: 6770086.4/30

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

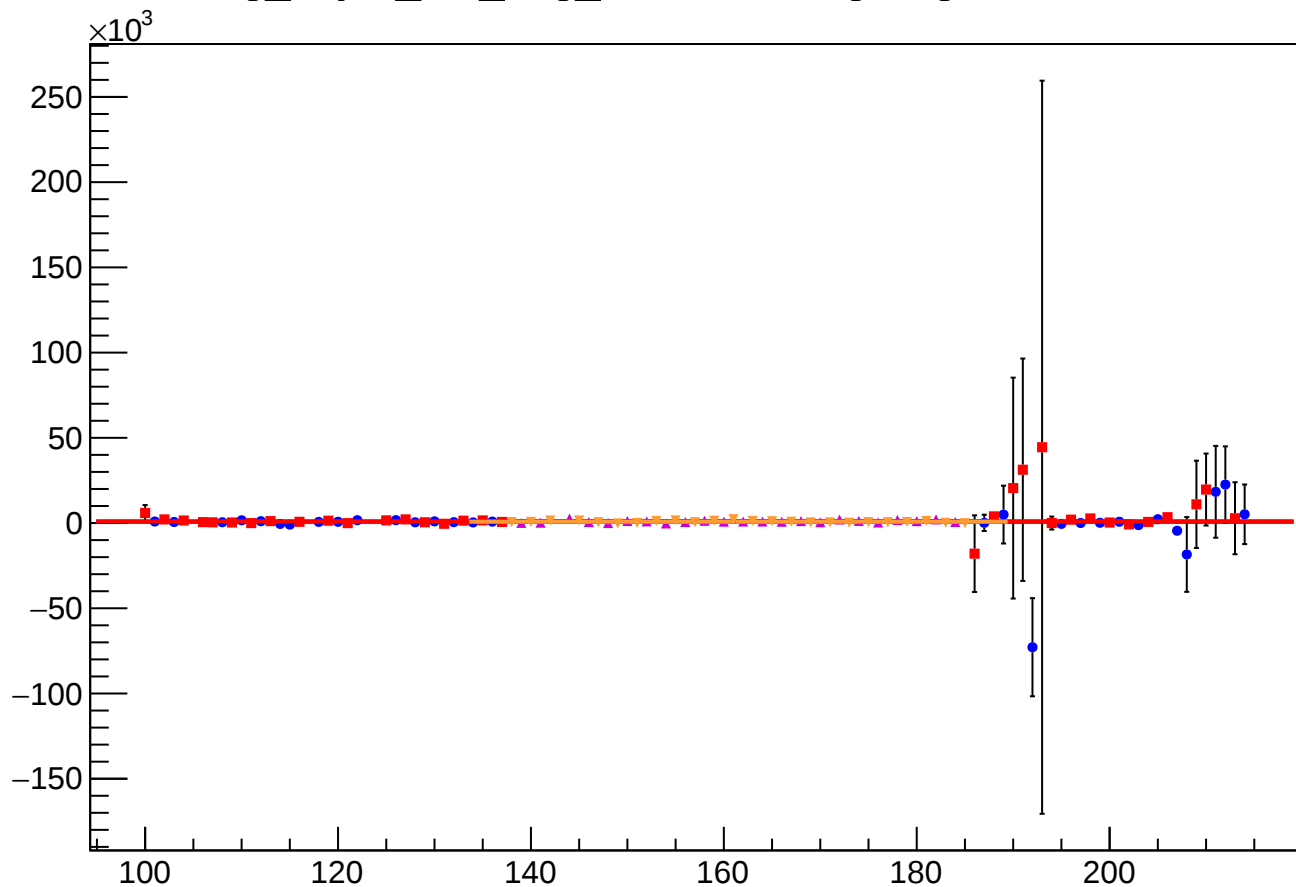
Right: 121.303 $\pm$ 0.024 χ^2 /NDF: 13254492.5/63

In: 131.247 $\pm$ 0.019 χ^2 /NDF:7012680.6/53

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

All: 132.558 $\pm$ 0.013 χ^2 /NDF: 13588584.8/11

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 769.456 $\pm$ 209.839 χ^2 /NDF: 21.0/29

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

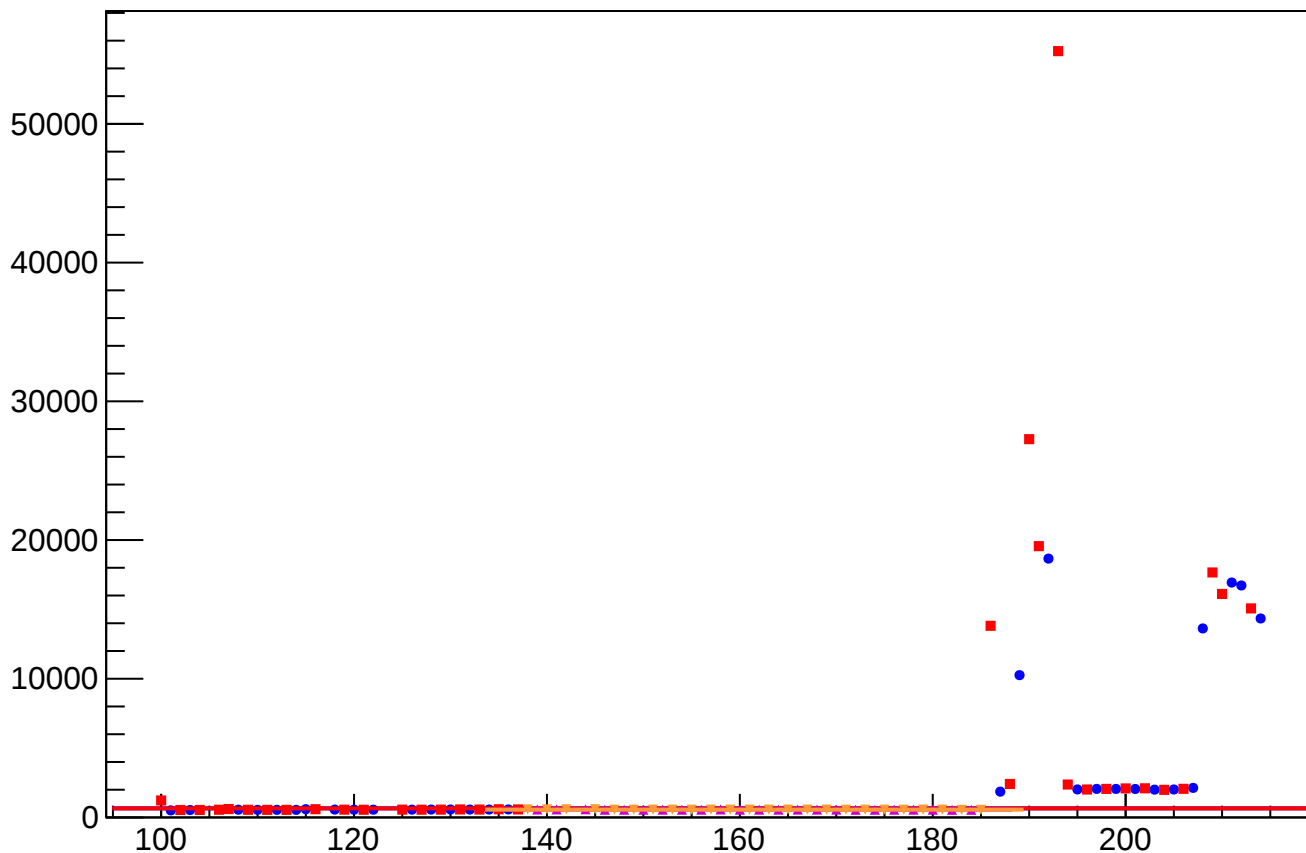
Right: 906.242 $\pm$ 147.460 χ^2 /NDF: 41.5/62

In: 914.450 $\pm$ 113.493 χ^2 /NDF: 49.1/52

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

All: 886.837 $\pm$ 79.921 χ^2 /NDF: 89.2/109

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 656.188+/-0.148

χ^2/NDF : 10920859.1/29

Left: 564.262+/-0.067

χ^2/NDF : 18806.8/46

Left Out: 564.143+/-0.095

χ^2/NDF : 9594.1/23

Right: 654.591+/-0.104

χ^2/NDF : 20998289.1/62

Right Out: 653.033+/-0.147

χ^2/NDF : 10077201.2/32

In: 591.238+/-0.080

χ^2/NDF : 11200898.8/52

Out: 590.360+/-0.080

χ^2/NDF : 10346158.4/56

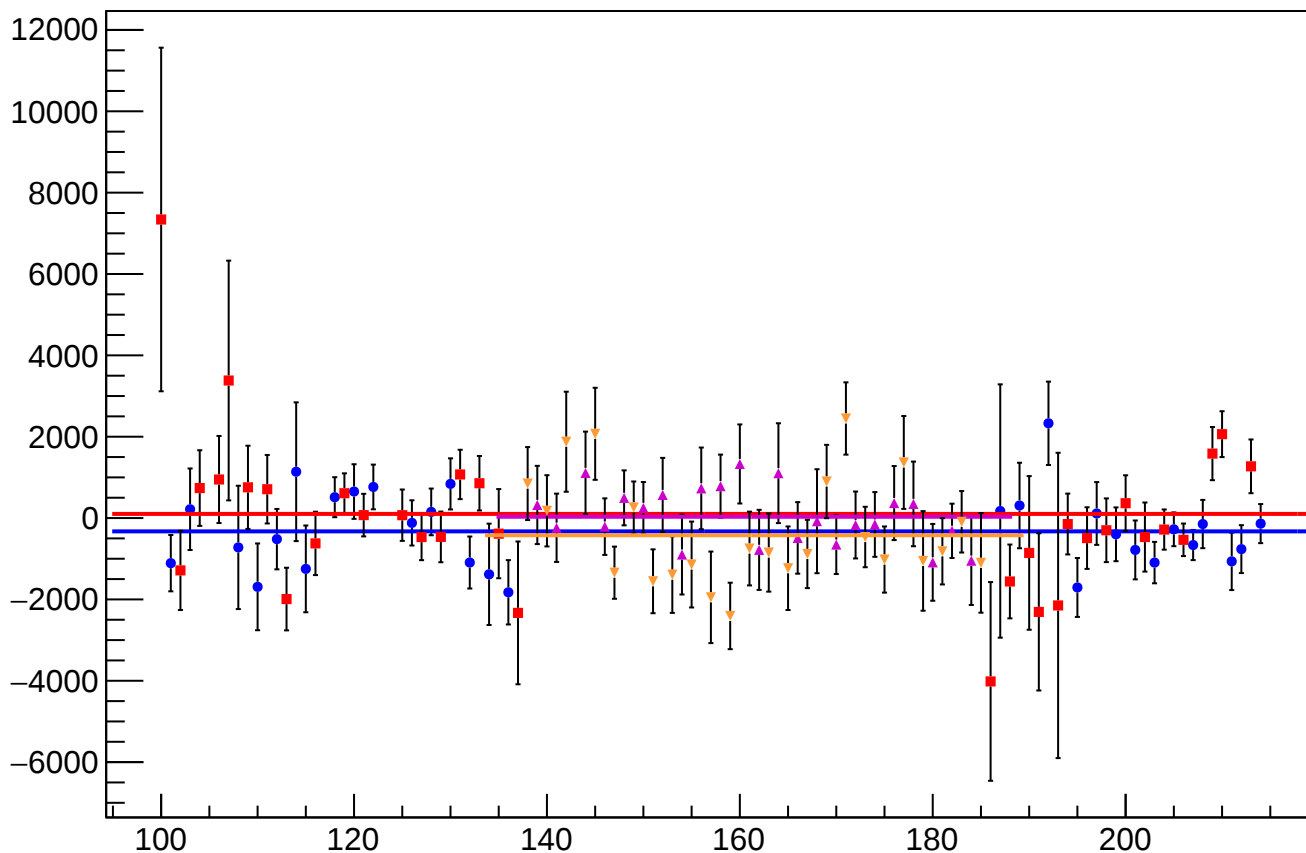
Left In: 564.383+/-0.095

χ^2/NDF : 9209.5/22

All: 590.796+/-0.057

χ^2/NDF : 21547117.6/10

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -326.961 ± 120.100 χ^2/NDF : 40.3/29

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

Right Out: 102.095 ± 129.210 χ^2/NDF : 58.8/32

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

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

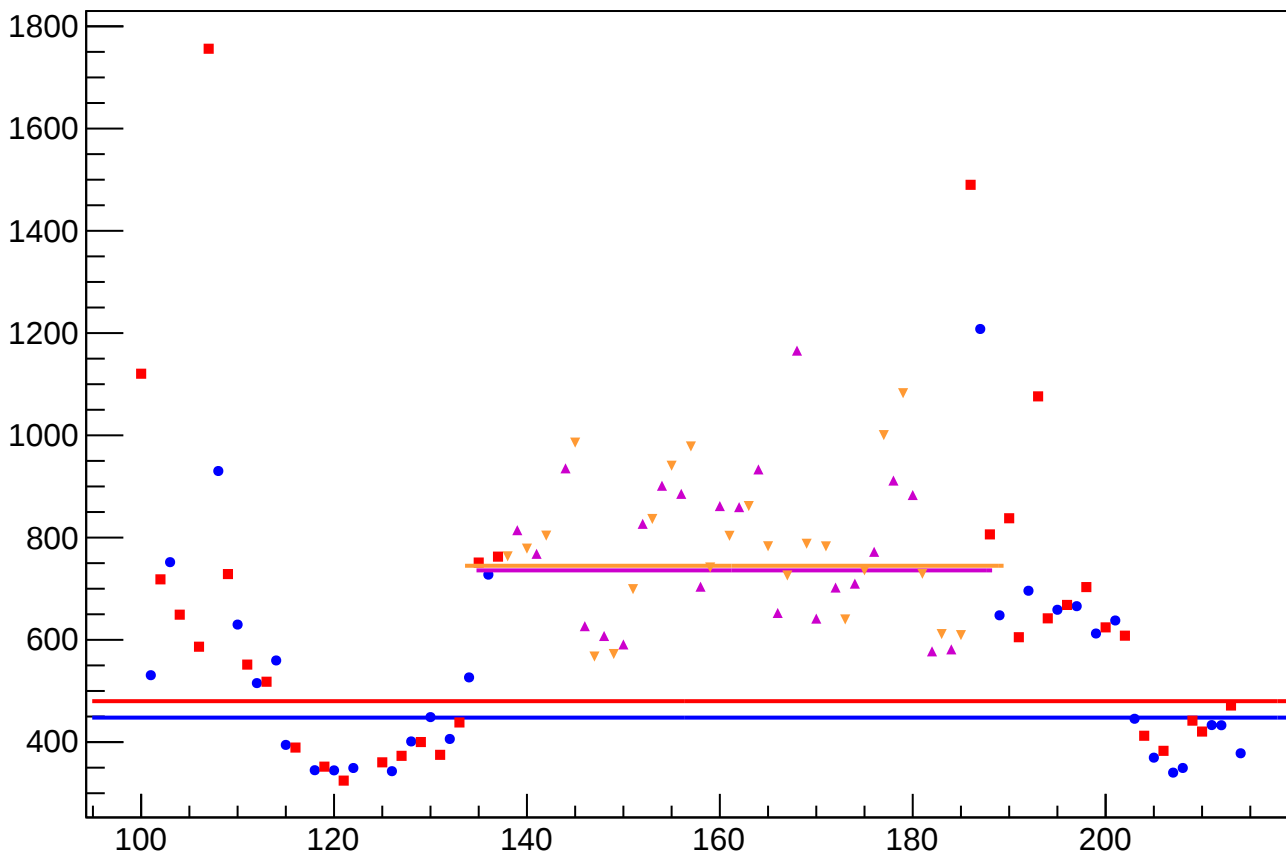
Right: -128.091 ± 87.968 χ^2/NDF : 105.1/62

In: -215.772 ± 99.806 χ^2/NDF : 55.3/52

Out: -75.564 ± 105.087 χ^2/NDF : 107.6/56

All: -149.279 ± 72.368 χ^2/NDF : 163.8/109

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 447.897 $\pm$ 0.085 χ^2 /NDF: 2291986.7/29

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

Right Out: 480.057 $\pm$ 0.091 χ^2 /NDF: 2952109.2/32

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

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

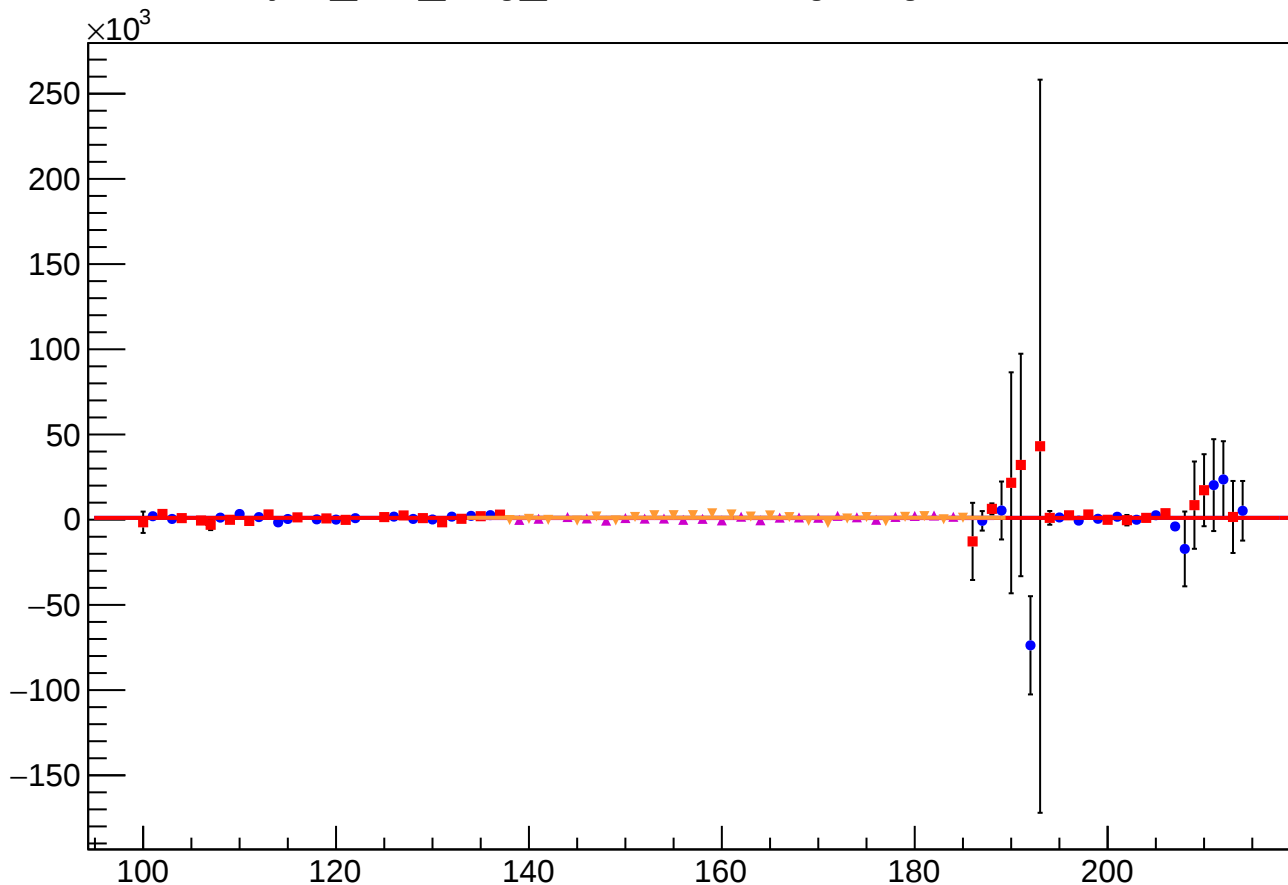
Right: 462.803 $\pm$ 0.062 χ^2 /NDF: 5310566.1/62

In: 536.989 $\pm$ 0.071 χ^2 /NDF:6954590.9/52

Out: 569.721 $\pm$ 0.074 χ^2 /NDF:6805788.2/56

All: 552.512 $\pm$ 0.051 χ^2 /NDF: 13862389.7/10

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1095.564 $\pm$ 280.555 χ^2 /NDF: 26.9/29

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

Right Out: 1063.009 $\pm$ 280.349 χ^2 /NDF: 30.4/32

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

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

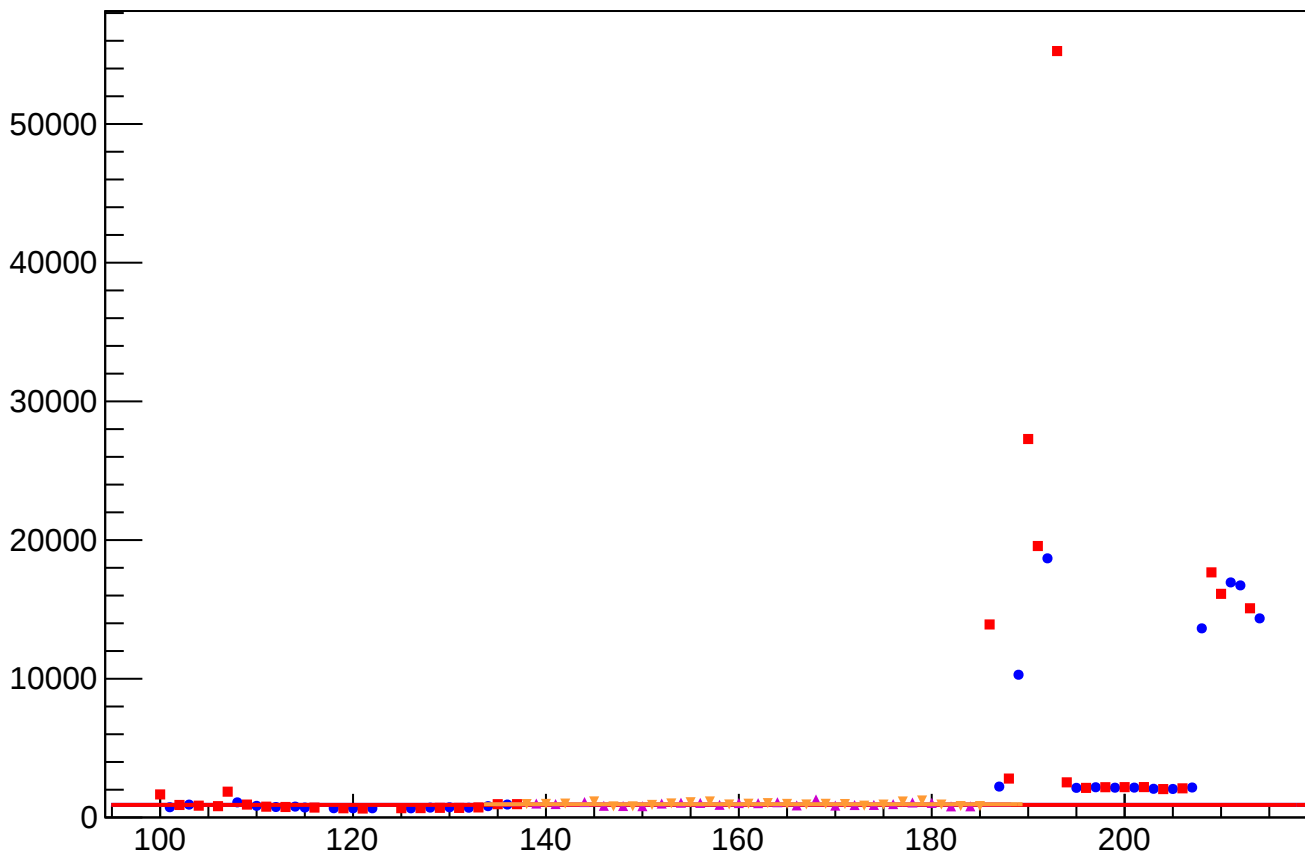
Right: 1079.274 $\pm$ 198.309 χ^2 /NDF: 57.3/62

In: 1003.005 $\pm$ 177.090 χ^2 /NDF:41.8/52

Out: 1107.976 $\pm$ 177.276 χ^2 /NDF:69.4/56

All: 1055.436 $\pm$ 125.287 χ^2 /NDF: 111.4/109

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 907.033+/-0.198 χ^2/NDF : 9559287.9/29

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

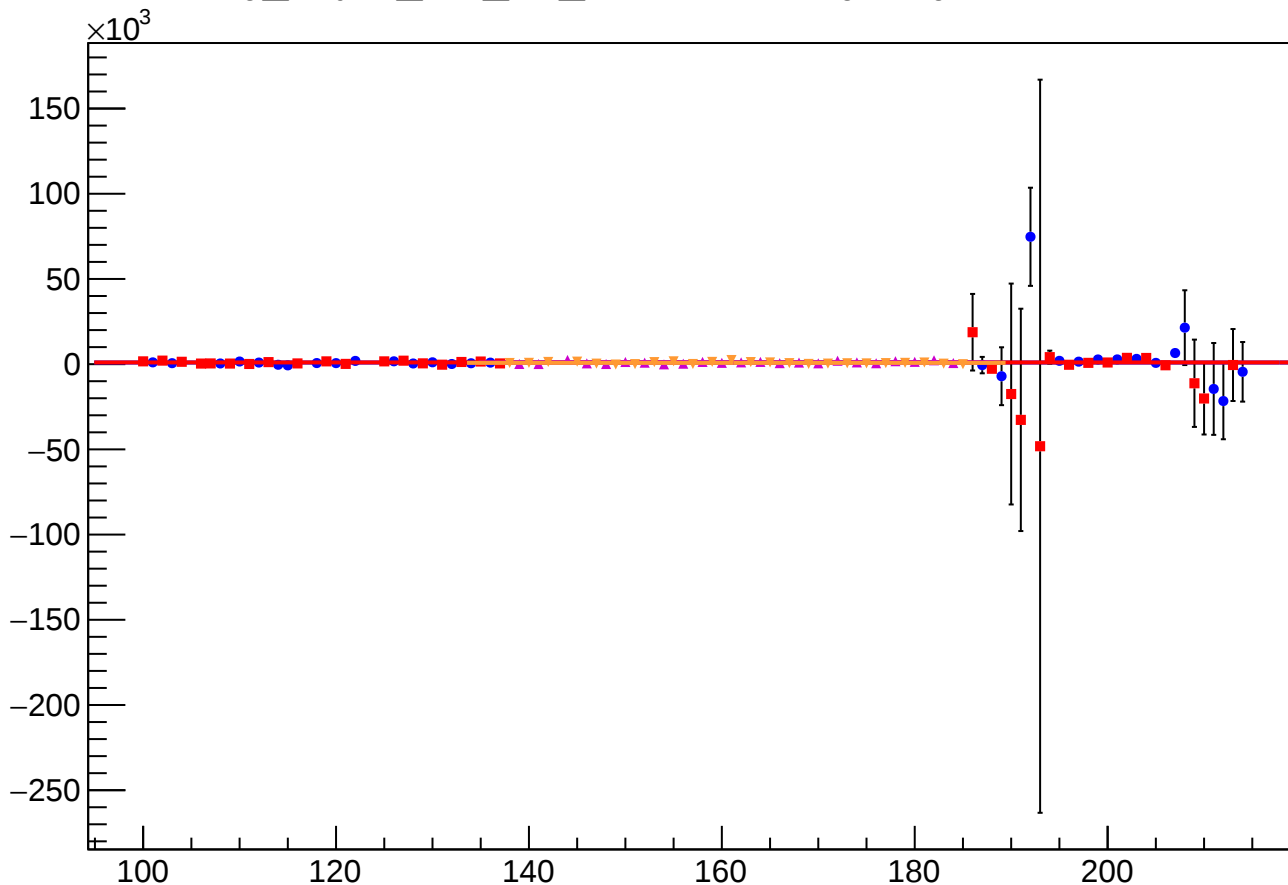
Right: 905.996+/-0.140 χ^2/NDF : 18700068.2/62

In: 930.819+/-0.125 χ^2/NDF : 10084552.5/52

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

All: 932.703+/-0.089 χ^2/NDF : 19723107.2/10

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 956.792 $\pm$ 209.708 χ^2 /NDF: 23.8/29

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

Right Out: 1015.144 $\pm$ 202.652 χ^2 /NDF: 20.1/32

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

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

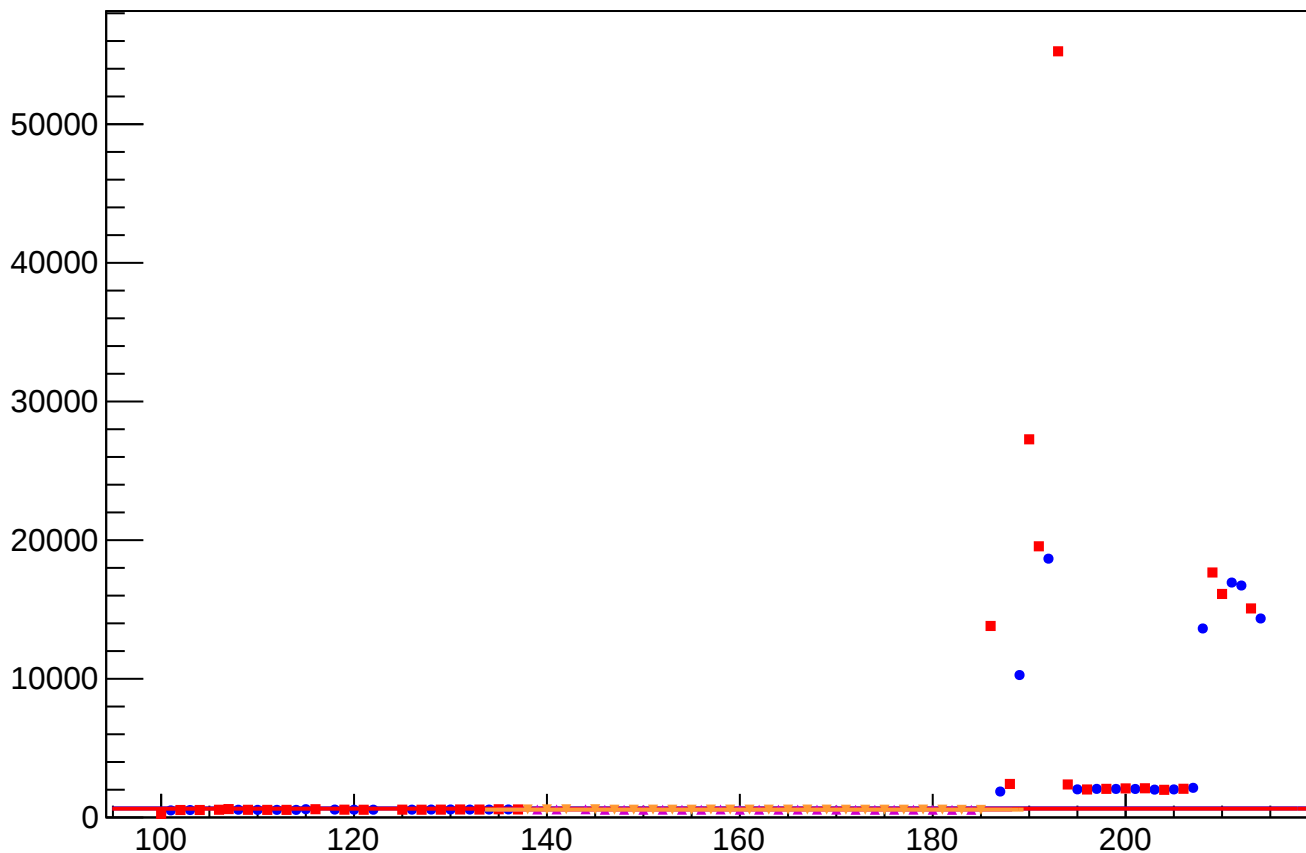
Right: 986.966 $\pm$ 145.727 χ^2 /NDF: 43.9/62

In: 958.012 $\pm$ 113.408 χ^2 /NDF:50.6/52

Out: 835.931 $\pm$ 111.741 χ^2 /NDF:42.2/56

All: 896.068 $\pm$ 79.596 χ^2 /NDF: 93.4/109

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 655.557+/-0.148

χ^2/NDF : 10934639.6/29

Left: 563.803+/-0.067

χ^2/NDF : 18751.3/46

Left Out: 563.675+/-0.095

χ^2/NDF : 9542.9/23

Right: 644.168+/-0.103

χ^2/NDF : 21332264.5/62

Right Out: 633.533+/-0.143

χ^2/NDF : 10386218.2/32

In: 590.730+/-0.080

χ^2/NDF : 11213968.0/52

Out: 584.914+/-0.079

χ^2/NDF : 10561168.6/56

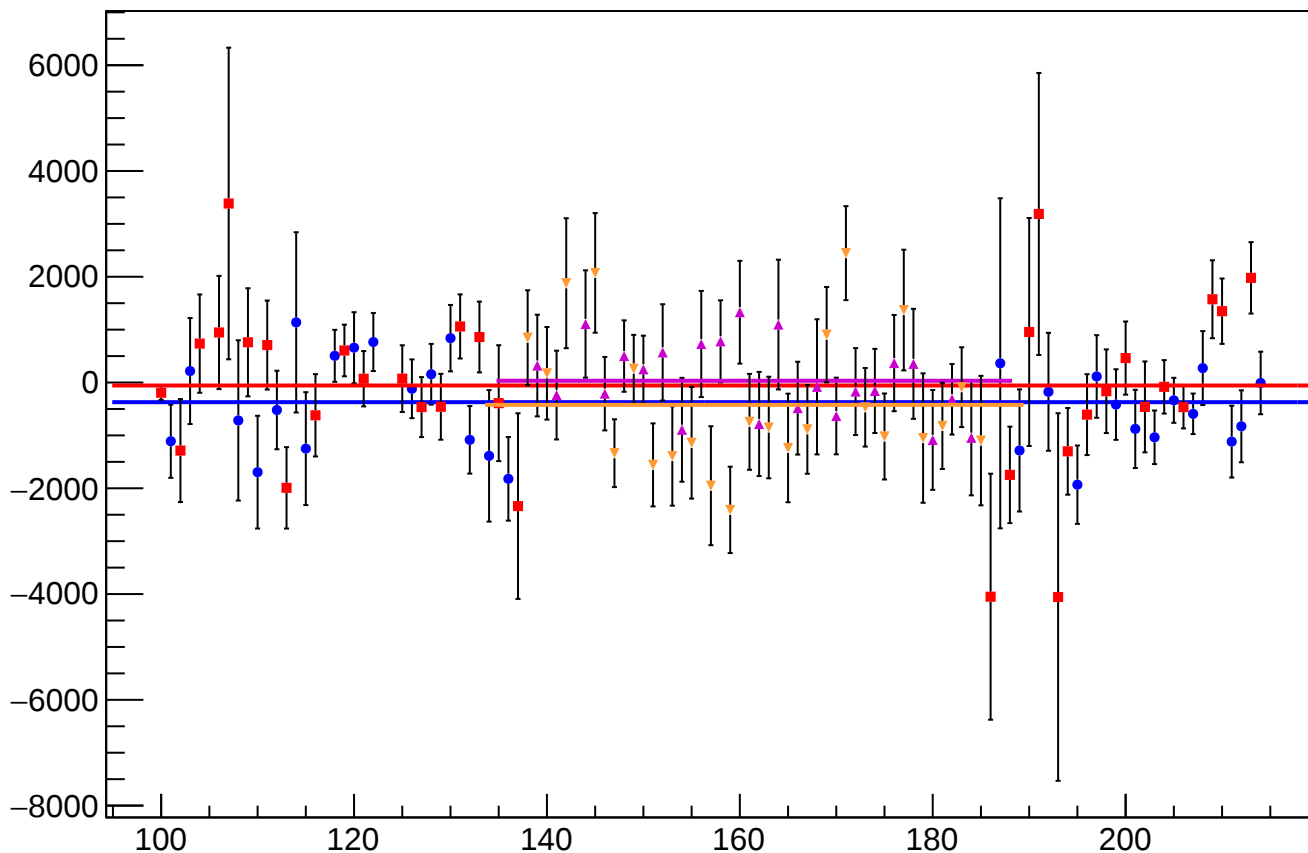
Left In: 563.934+/-0.095

χ^2/NDF : 9204.6/22

All: 587.779+/-0.056

χ^2/NDF : 21777805.4/10

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -371.542 $\pm$ 123.767 χ^2/NDF : 35.4/29

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

Right Out: -56.183 $\pm$ 94.165 χ^2/NDF : 57.1/32

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

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

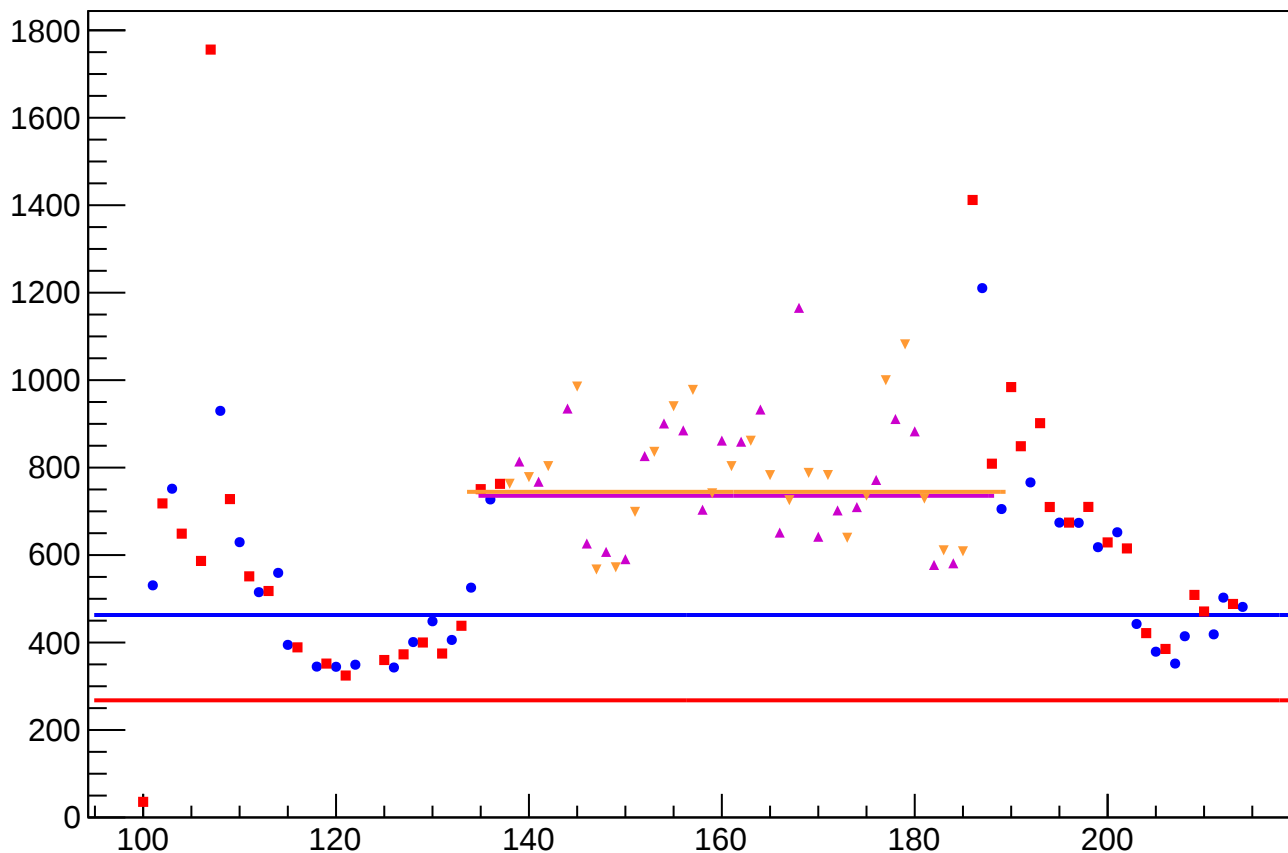
Right: -171.803 $\pm$ 74.941 χ^2/NDF : 96.6/62

In: -240.940 $\pm$ 101.867 χ^2/NDF : 51.0/52

Out: -134.492 $\pm$ 83.490 χ^2/NDF : 103.6/56

All: -177.265 $\pm$ 64.573 χ^2/NDF : 155.2/109

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 462.954 $\pm$ 0.088 χ^2 /NDF: 2247718.0/29

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

Right Out: 267.832 $\pm$ 0.067 χ^2 /NDF: 14497605.3/32

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

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

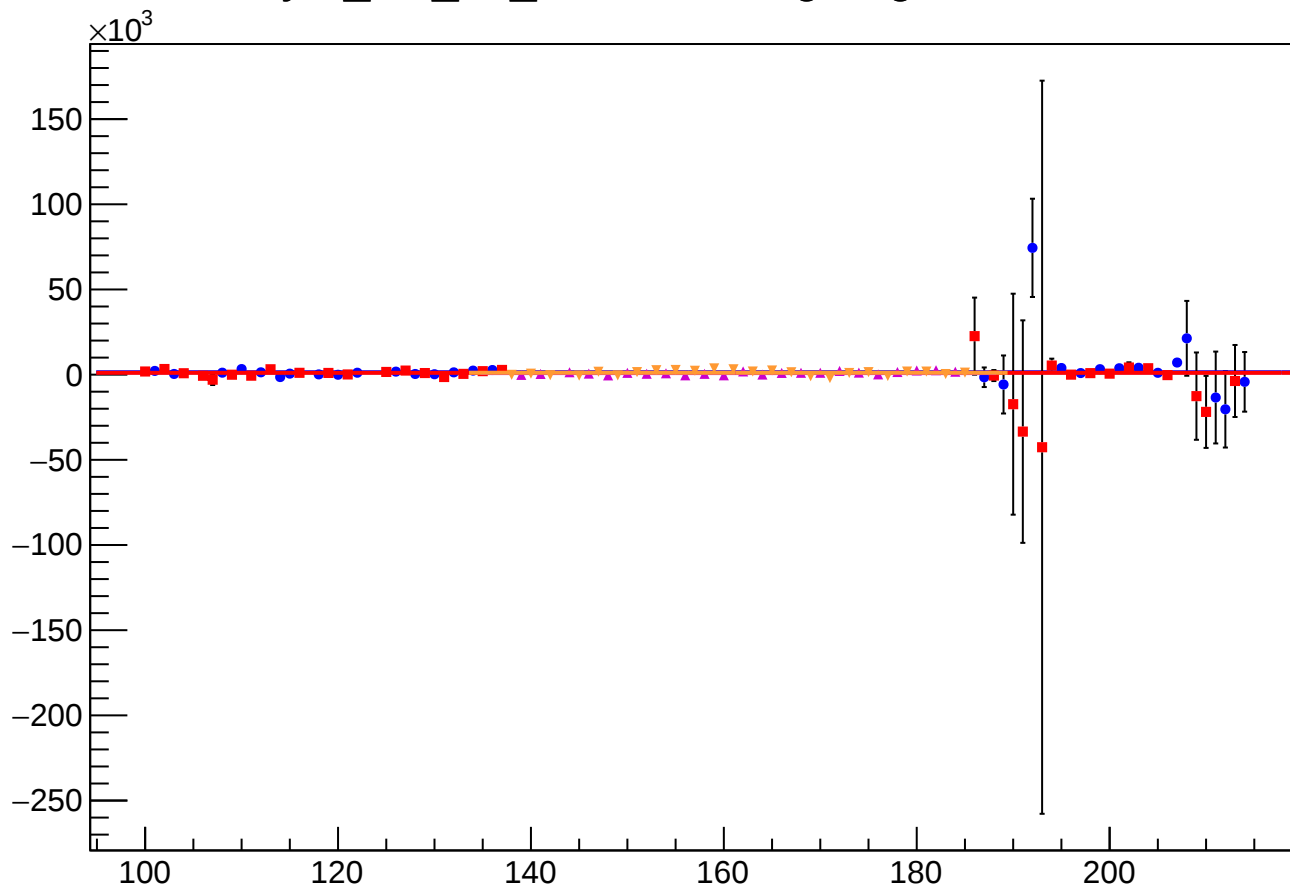
Right: 339.370 $\pm$ 0.053 χ^2 /NDF: 19893745.5/62

In: 550.886 $\pm$ 0.072 χ^2 /NDF: 6482439.5/52

Out: 369.801 $\pm$ 0.059 χ^2 /NDF: 26472582.1/56

All: 442.565 $\pm$ 0.046 χ^2 /NDF: 36735604.5/100

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1406.109 $\pm$ 280.459 χ^2 /NDF: 31.1/29

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

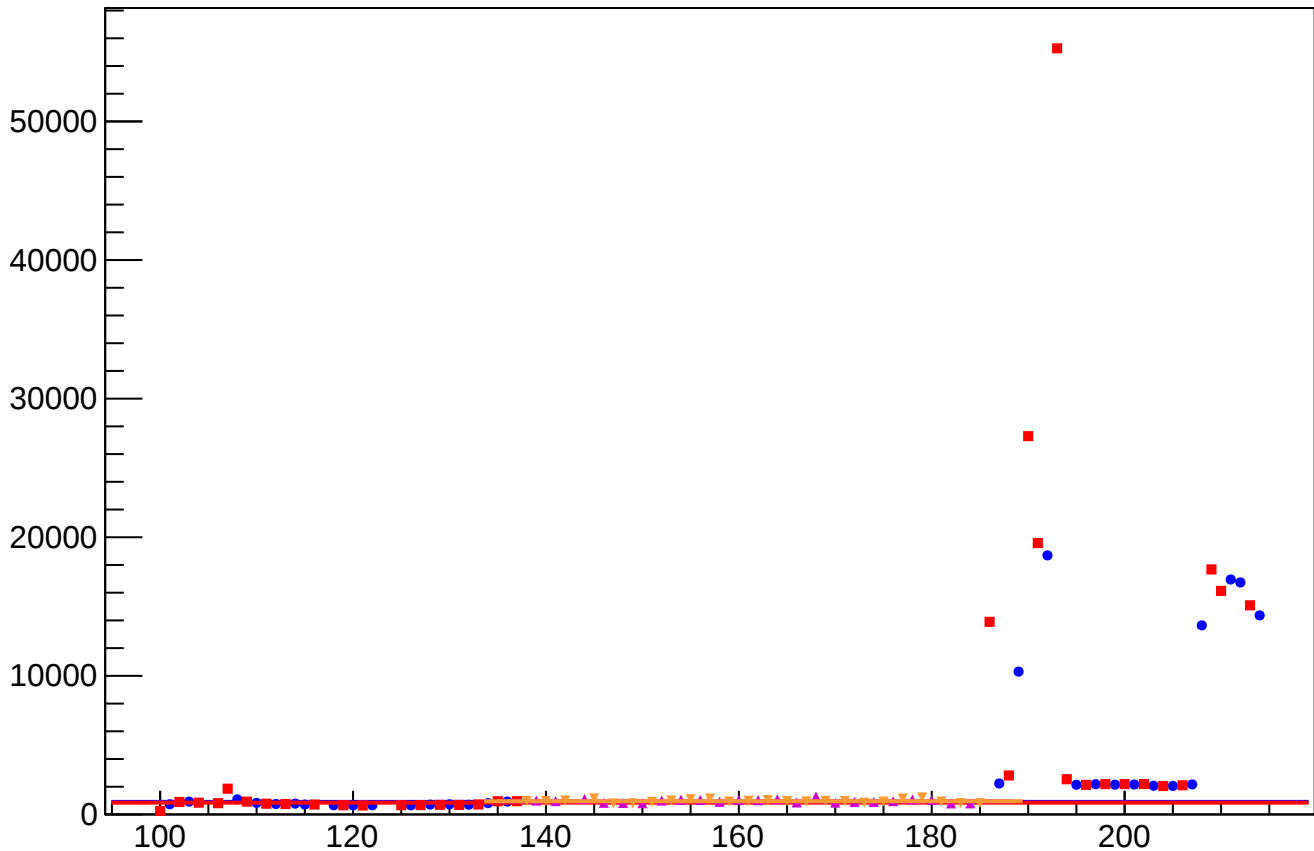
Right: 1231.090 $\pm$ 194.307 χ^2 /NDF: 61.3/62

In: 1117.409 $\pm$ 177.006 χ^2 /NDF:47.9/52

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

All: 1103.617 $\pm$ 124.217 χ^2 /NDF: 115.7/109

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 906.286+/-0.198 χ^2/NDF : 9579839.1/29

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

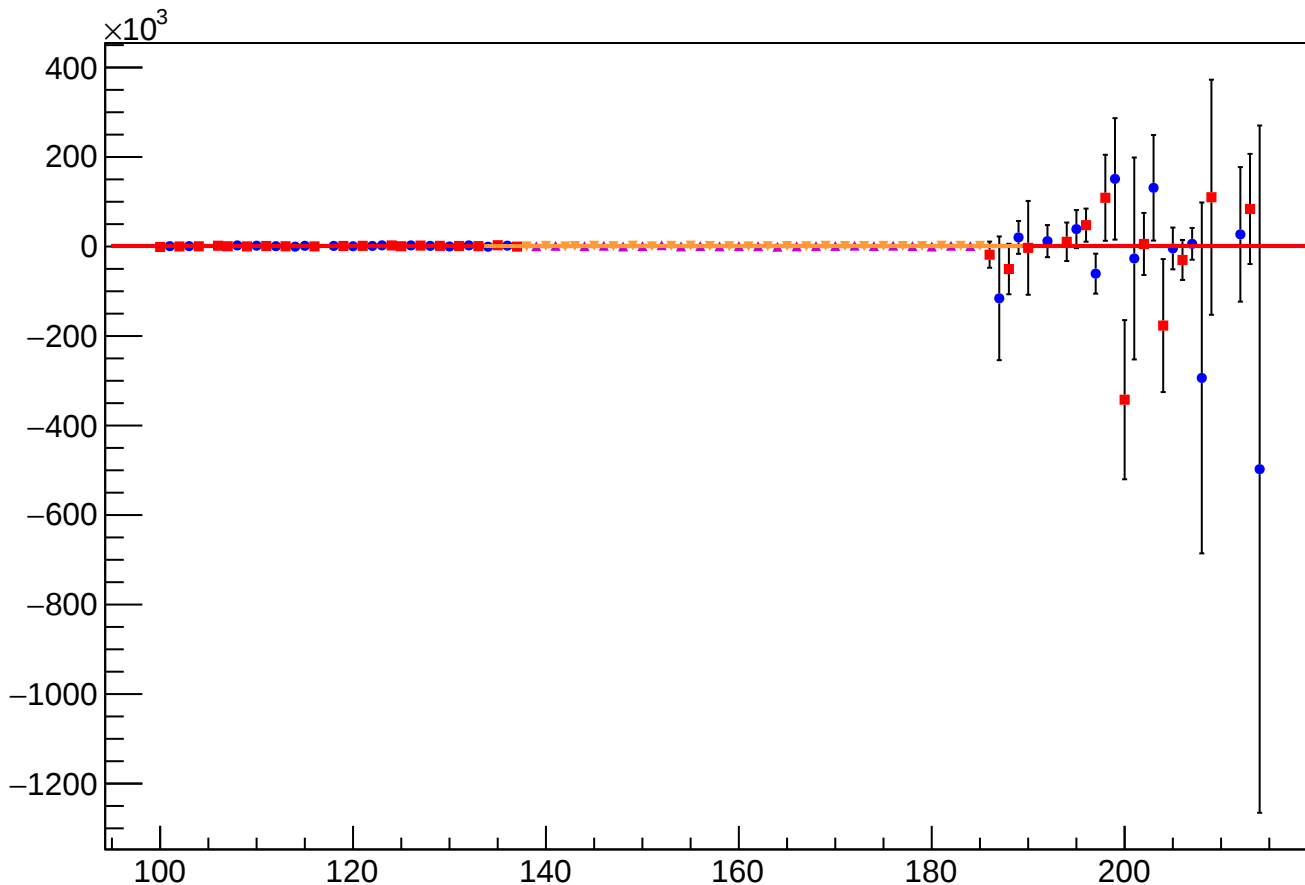
Right: 878.460+/-0.137 χ^2/NDF : 19568355.0/62

In: 930.206+/-0.125 χ^2/NDF : 10105460.0/52

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

All: 920.705+/-0.088 χ^2/NDF : 20691033.7/10

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.116 $\pm$ 218.579 χ^2 /NDF: 20.1/29

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

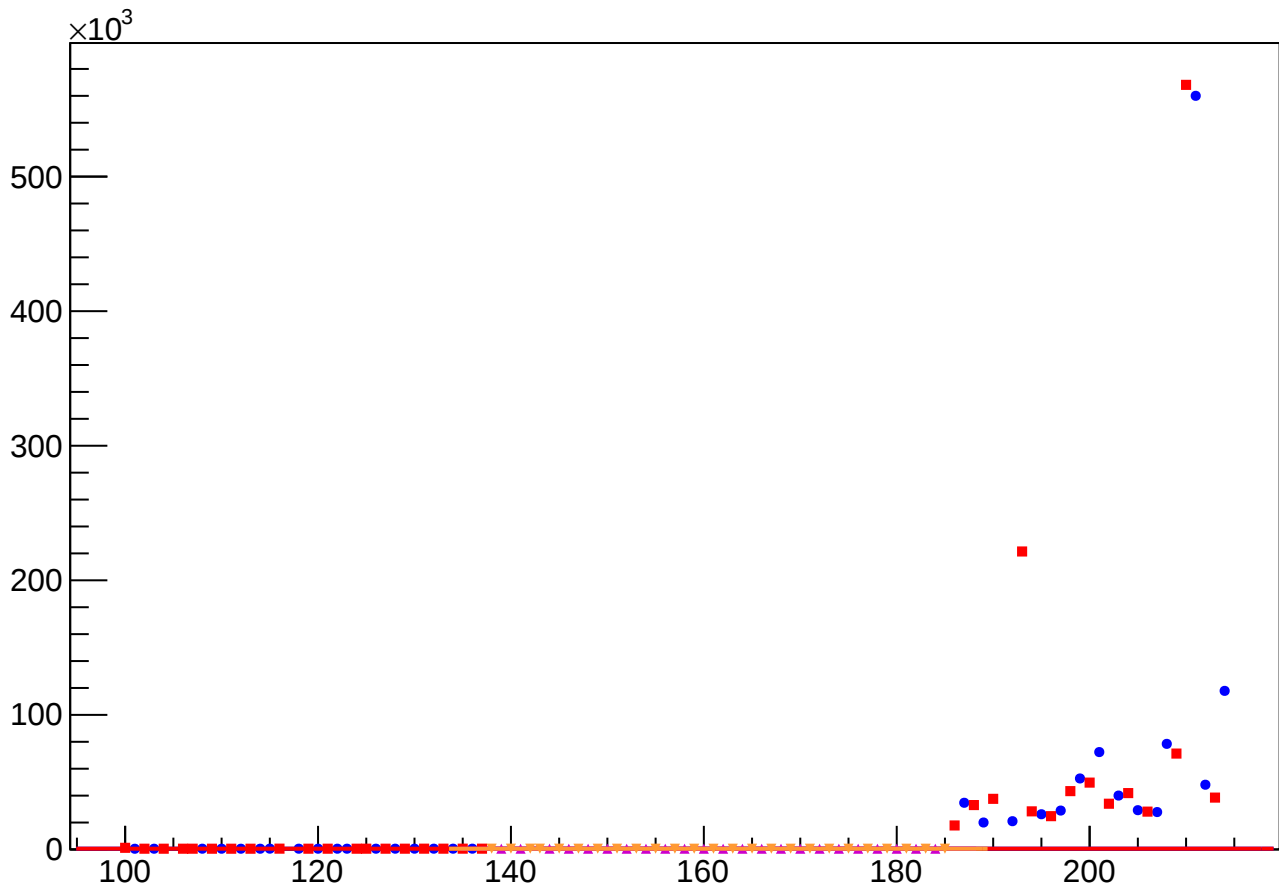
Right: 1178.165 $\pm$ 152.202 χ^2 /NDF: 44.9/60

In: 1178.335 $\pm$ 113.721 χ^2 /NDF:50.7/52

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

All: 1119.818 $\pm$ 79.301 χ^2 /NDF: 90.3/108

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.644 $\pm$ 0.155 χ^2 /NDF: 6129392.2/30

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

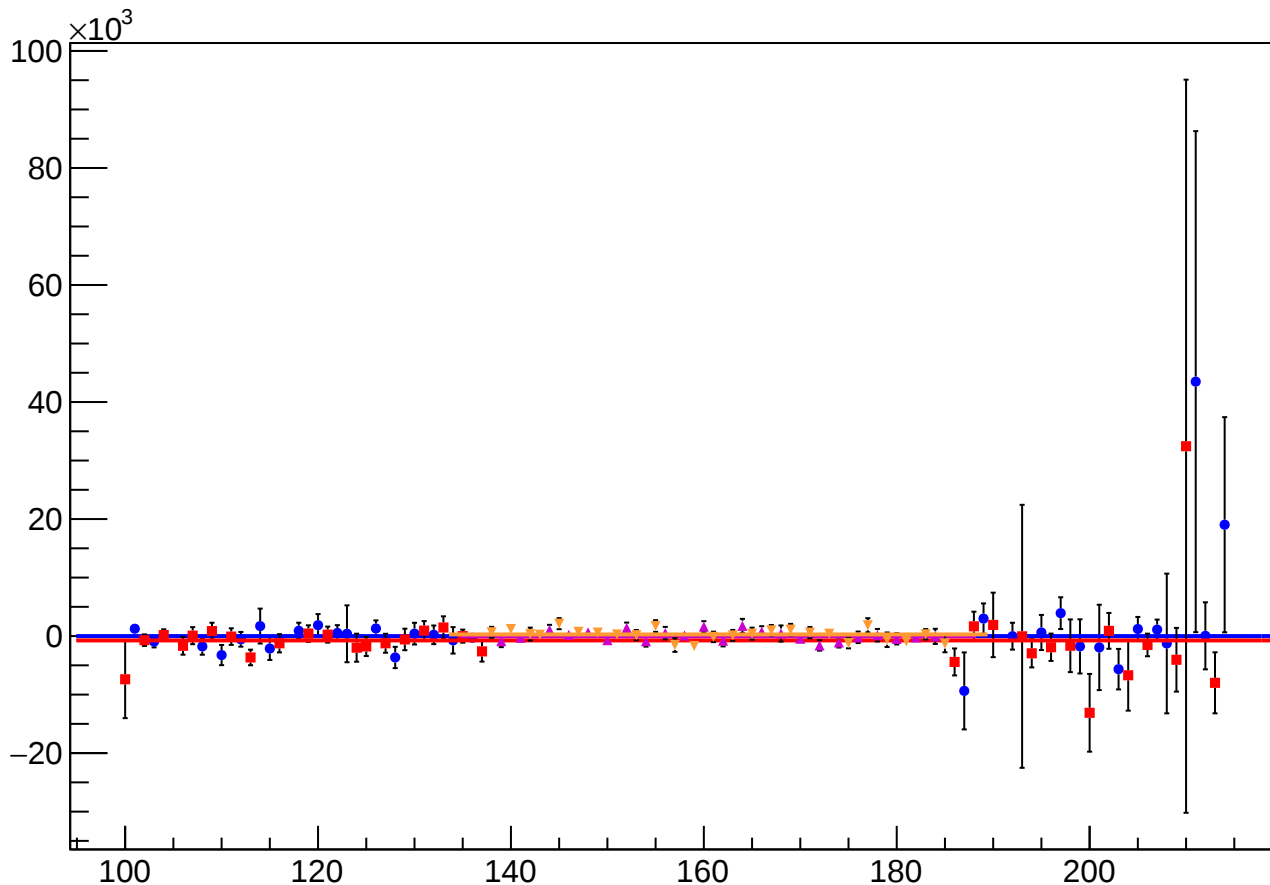
Right: 569.273 $\pm$ 0.108 χ^2 /NDF: 12056848.3/63

In: 560.129 $\pm$ 0.080 χ^2 /NDF:6144763.6/53

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

All: 560.520 $\pm$ 0.056 χ^2 /NDF: 12091907.9/110

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.742 ± 306.390 $\chi^2/\text{NDF}: 28.4/30$

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 $\chi^2/\text{NDF}: 48.2/47$

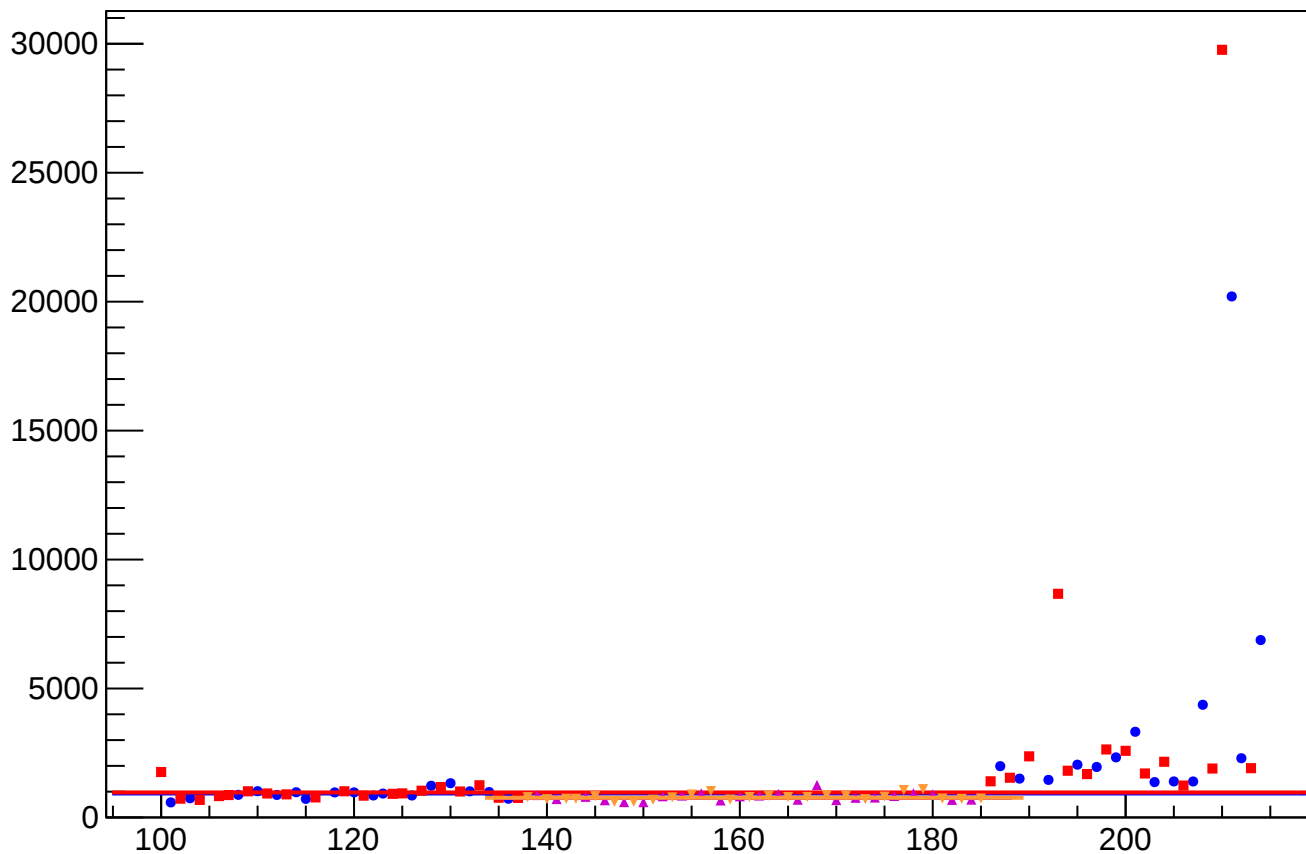
Right: -363.771 ± 218.455 $\chi^2/\text{NDF}: 58.4/63$

In: -6.241 ± 157.351 $\chi^2/\text{NDF}: 48.5/53$

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

All: 9.732 ± 110.831 $\chi^2/\text{NDF}: 110.5/111$

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 928.723+/-0.217 χ^2/NDF : 3226079.2/30

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

Right Out: 969.716+/-0.220 χ^2/NDF : 2753958.6/32

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

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

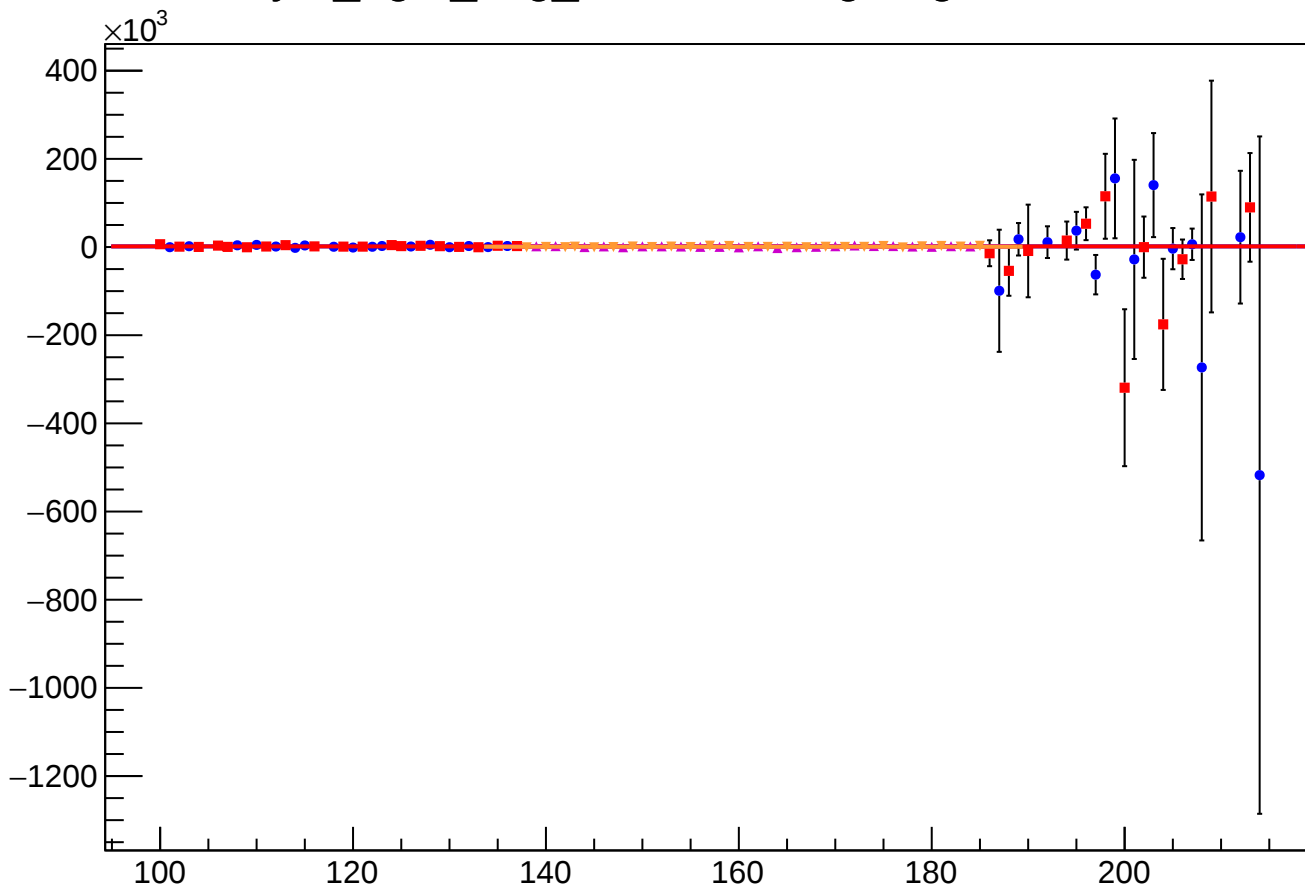
Right: 948.877+/-0.154 χ^2/NDF : 5997639.7/63

In: 800.156+/-0.111 χ^2/NDF : 4636227.9/53

Out: 814.978+/-0.110 χ^2/NDF : 4166455.4/57

All: 807.624+/-0.078 χ^2/NDF : 8811625.6/111

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.013 $\pm$ 402.535 χ^2 /NDF: 24.3/29

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

Right Out: 1486.854 $\pm$ 400.596 χ^2 /NDF: 22.5/30

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

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

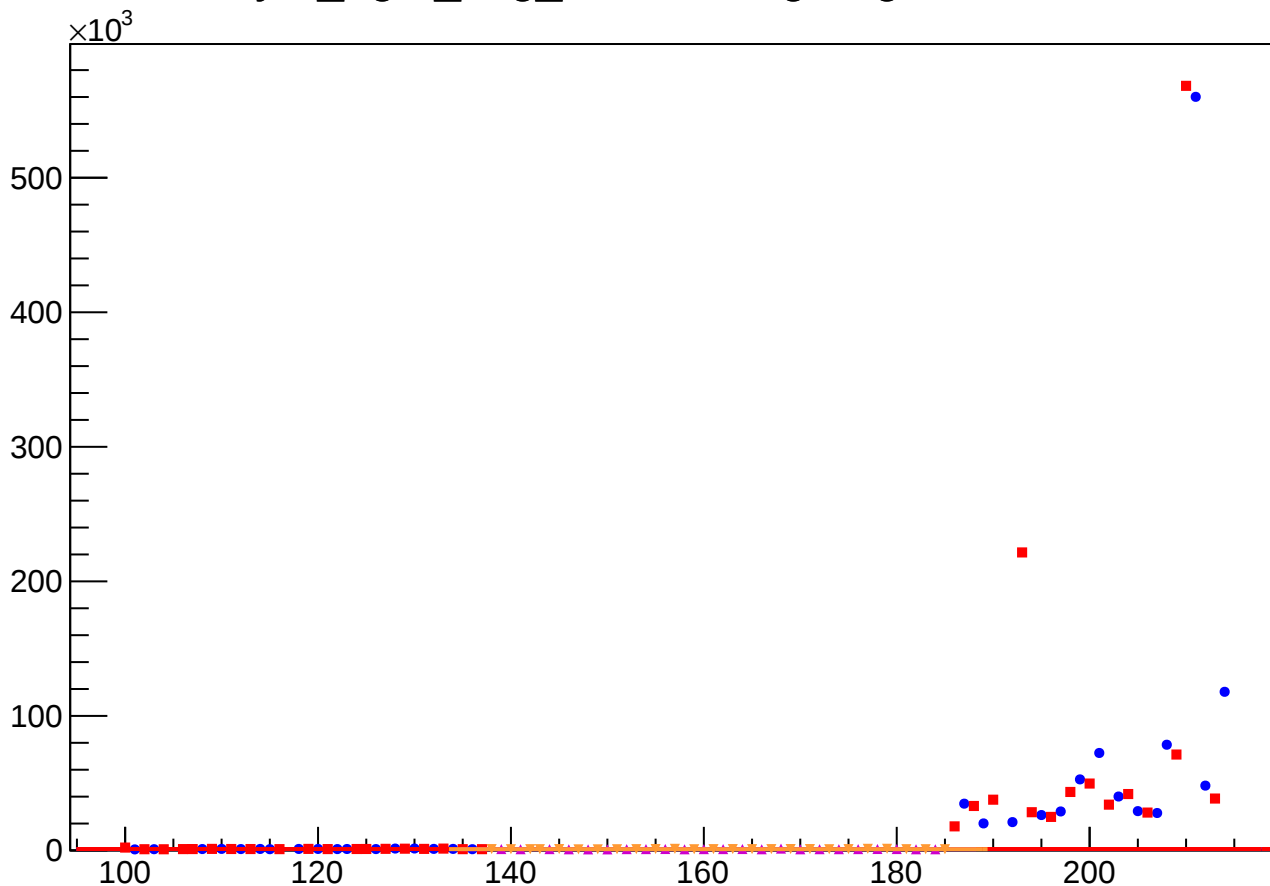
Right: 1493.899 $\pm$ 283.947 χ^2 /NDF: 46.8/60

In: 1217.273 $\pm$ 199.743 χ^2 /NDF:50.4/52

Out: 919.480 $\pm$ 196.529 χ^2 /NDF:46.6/55

All: 1065.962 $\pm$ 140.089 χ^2 /NDF: 98.1/108

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1039.041 $\pm$ 0.285 χ^2 /NDF: 6260431.0/30

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

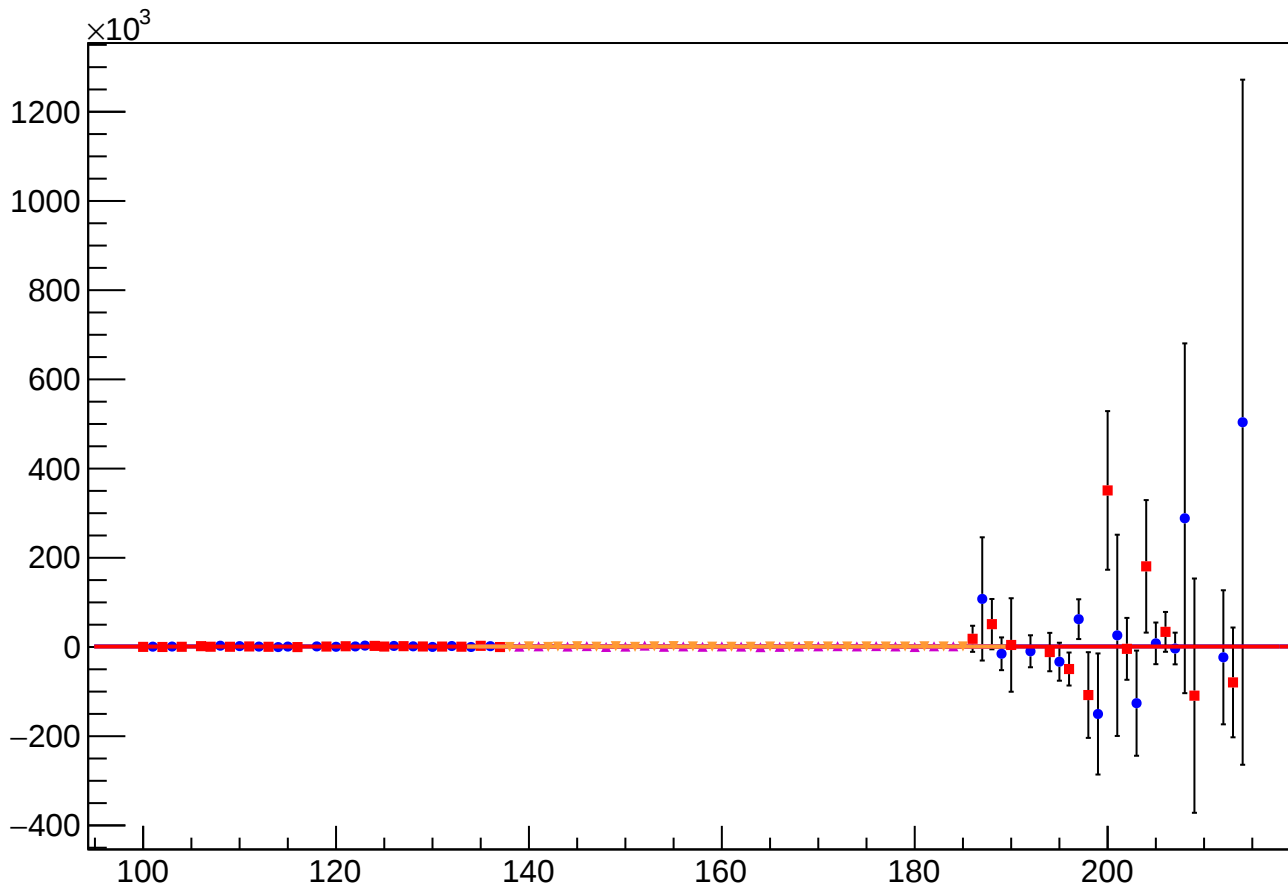
Right: 1056.478 $\pm$ 0.201 χ^2 /NDF: 12186479.7/63

In: 975.424 $\pm$ 0.141 χ^2 /NDF: 6770097.0/53

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

All: 982.368 $\pm$ 0.099 χ^2 /NDF: 13174004.8/111

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.477 $\pm$ 218.833 χ^2 /NDF: 18.9/29

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

Right Out: 965.830 $\pm$ 208.597 χ^2 /NDF: 23.1/30

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

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

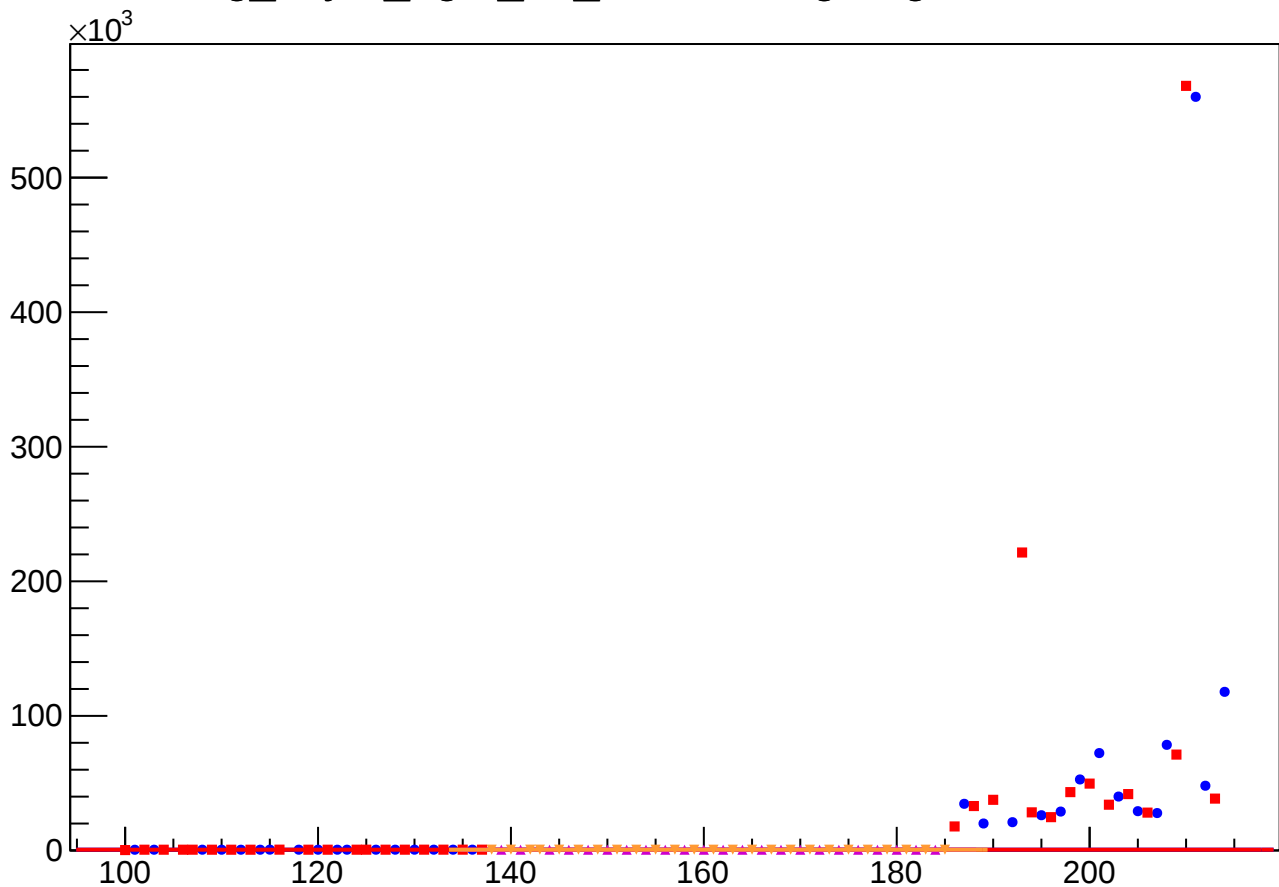
Right: 1146.091 $\pm$ 150.989 χ^2 /NDF: 43.5/60

In: 1231.434 $\pm$ 113.851 χ^2 /NDF:51.4/52

Out: 1053.622 $\pm$ 110.219 χ^2 /NDF:38.3/55

All: 1139.647 $\pm$ 79.189 χ^2 /NDF: 90.9/108

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.308 $\pm$ 0.155 χ^2 /NDF: 6129585.7/30

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

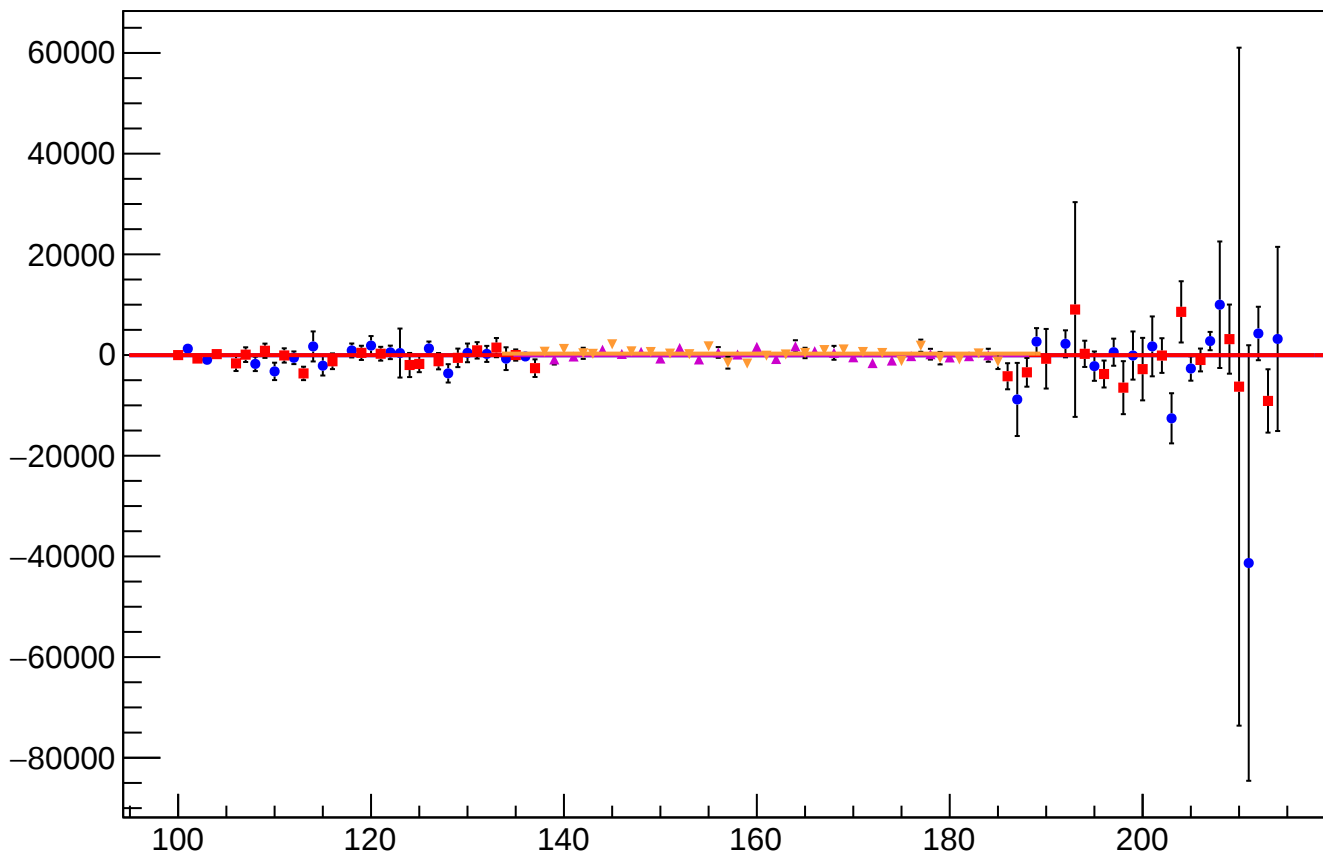
Right: 563.831 $\pm$ 0.107 χ^2 /NDF: 12147228.7/63

In: 560.766 $\pm$ 0.081 χ^2 /NDF:6145040.2/53

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

All: 559.498 $\pm$ 0.056 χ^2 /NDF: 12175576.7/11

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -47.824 ± 309.225 χ^2/NDF : 33.1/30

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

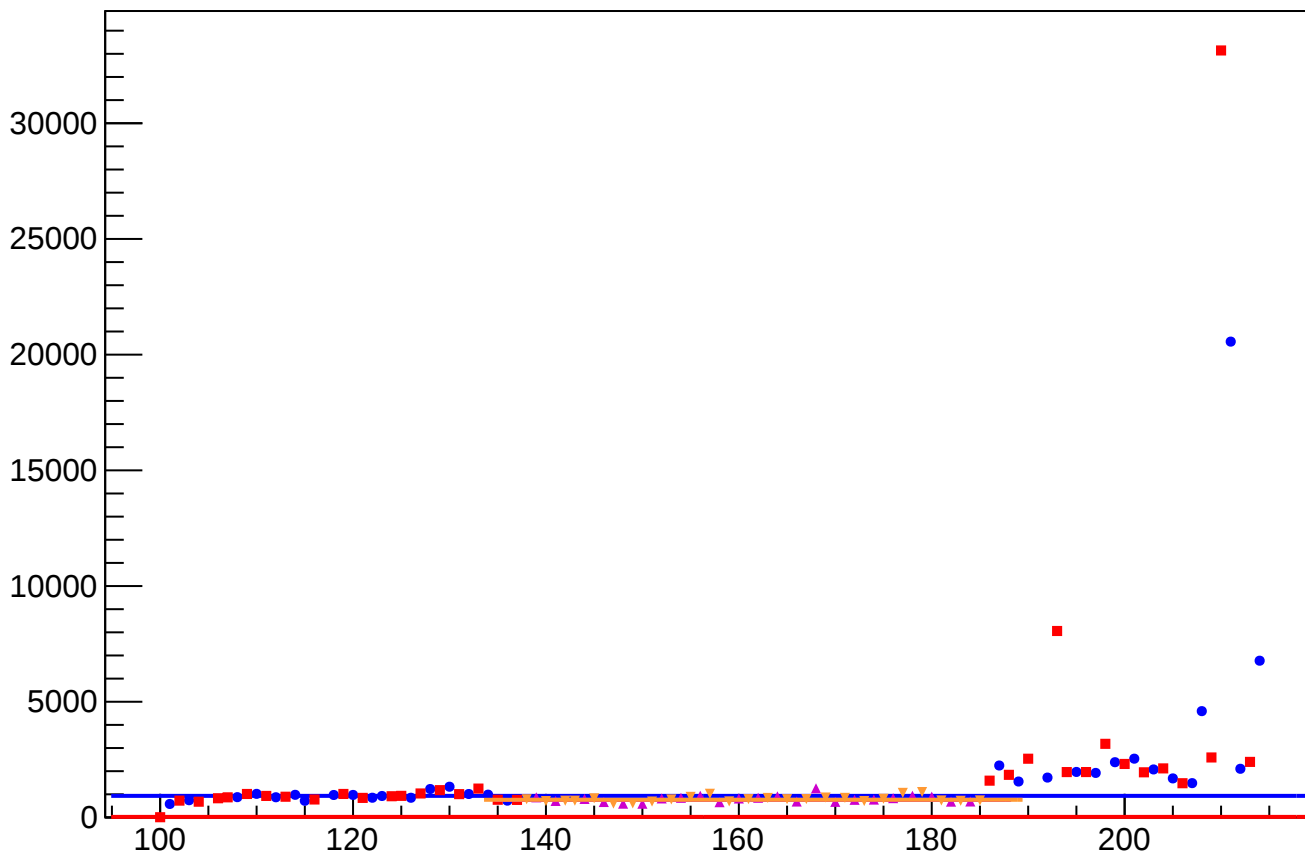
Right: -23.440 ± 38.621 χ^2/NDF : 61.4/63

In: -17.856 ± 157.789 χ^2/NDF : 53.2/53

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

All: -9.979 ± 36.990 χ^2/NDF : 111.1/111

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 933.204+/-0.219

χ^2/NDF : 3409665.9/30

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: 38.826+/-0.027

χ^2/NDF : 42004755.8/63

In: 801.018+/-0.112

χ^2/NDF : 4835338.7/53

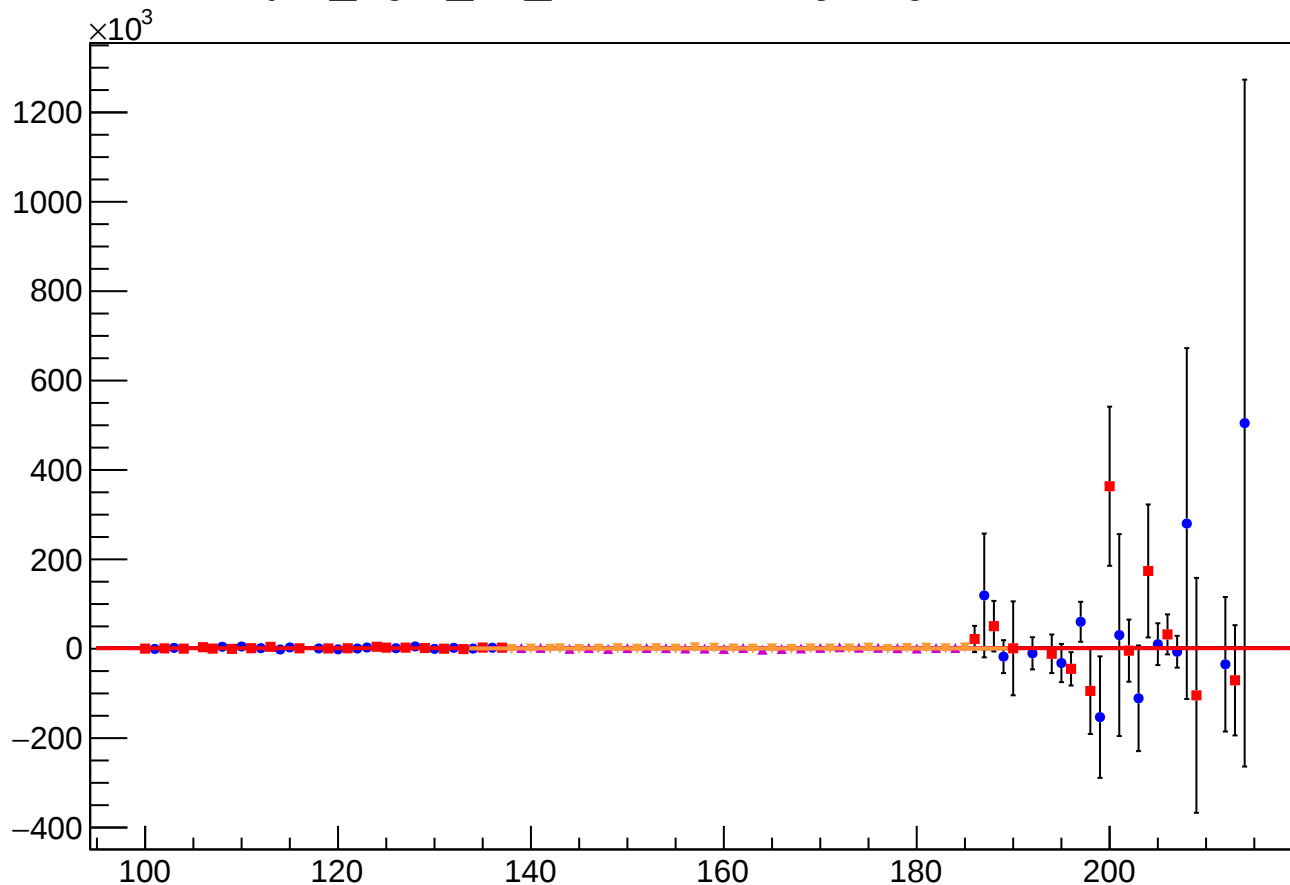
Out: 57.486+/-0.027

χ^2/NDF : 54364701.1/57

All: 98.348+/-0.026

χ^2/NDF : 101168959.1/111

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1515.705 $\pm$ 402.758 χ^2 /NDF: 24.5/29

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

Right Out: 1289.809 $\pm$ 376.578 χ^2 /NDF: 22.7/30

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

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

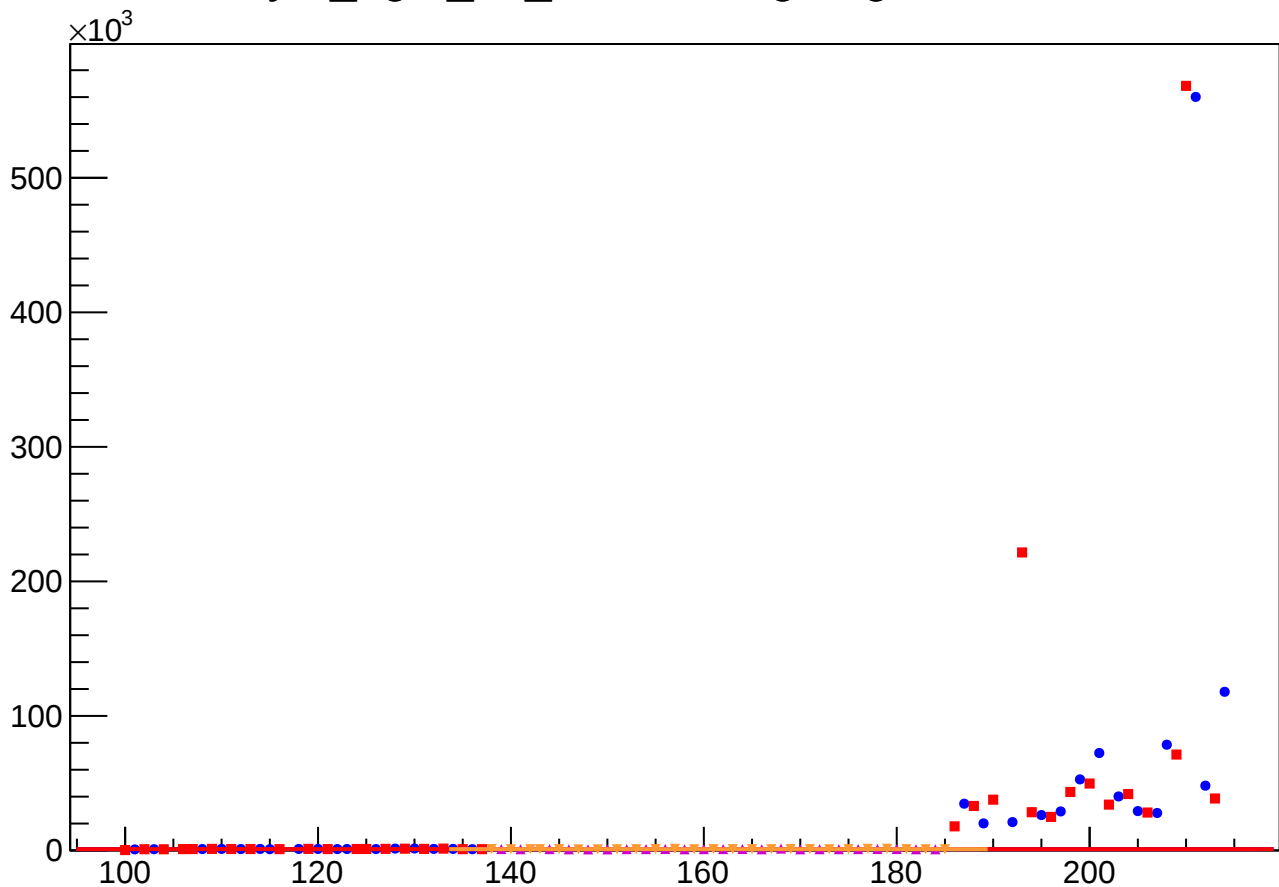
Right: 1395.177 $\pm$ 275.071 χ^2 /NDF: 47.4/60

In: 1259.881 $\pm$ 199.877 χ^2 /NDF: 49.3/52

Out: 887.342 $\pm$ 193.565 χ^2 /NDF: 44.5/55

All: 1067.637 $\pm$ 139.049 χ^2 /NDF: 95.6/108

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1039.624+/-0.285 χ^2/NDF : 6261106.4/30

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

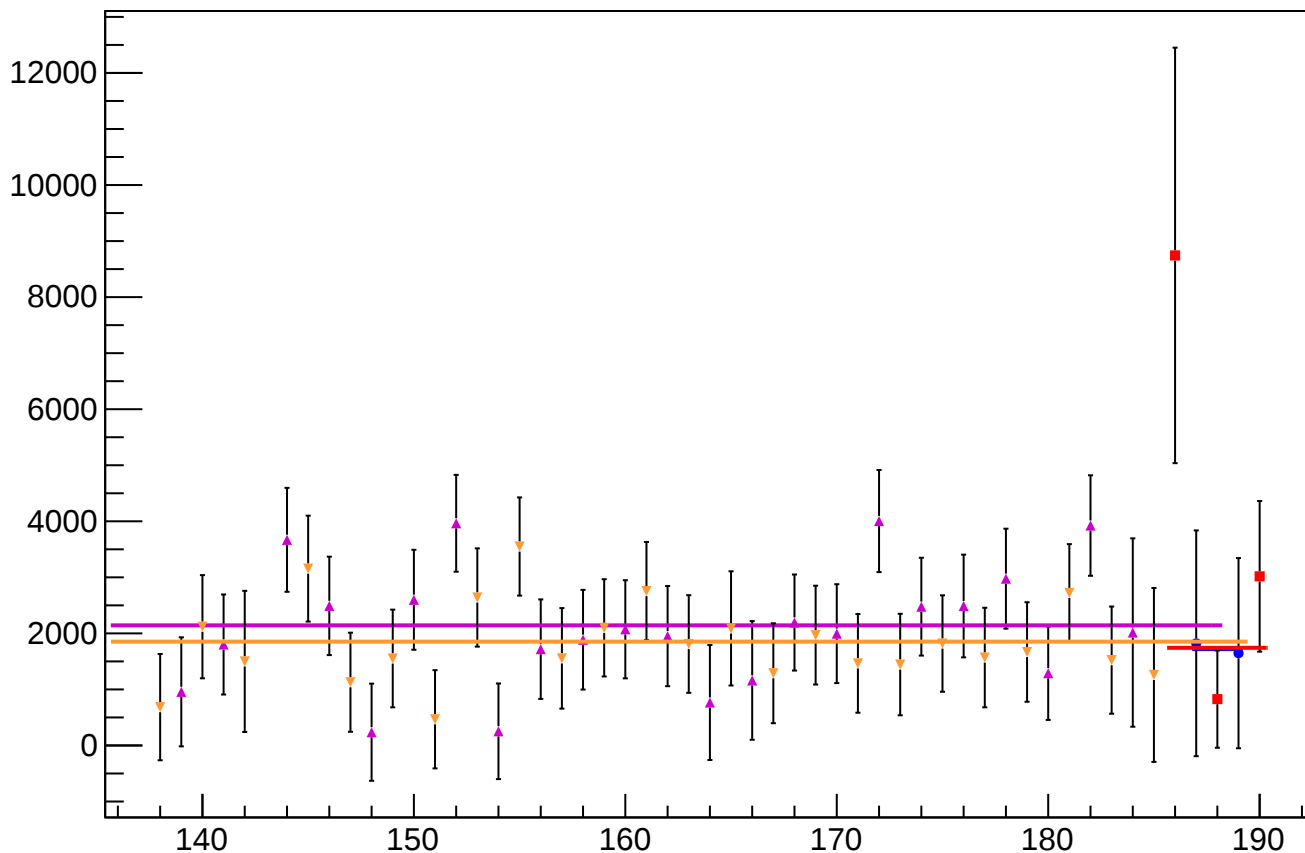
Right: 1006.850+/-0.195 χ^2/NDF : 13078320.0/63

In: 976.091+/-0.141 χ^2/NDF : 6770204.4/53

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

All: 971.323+/-0.098 χ^2/NDF : 13930107.7/11

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

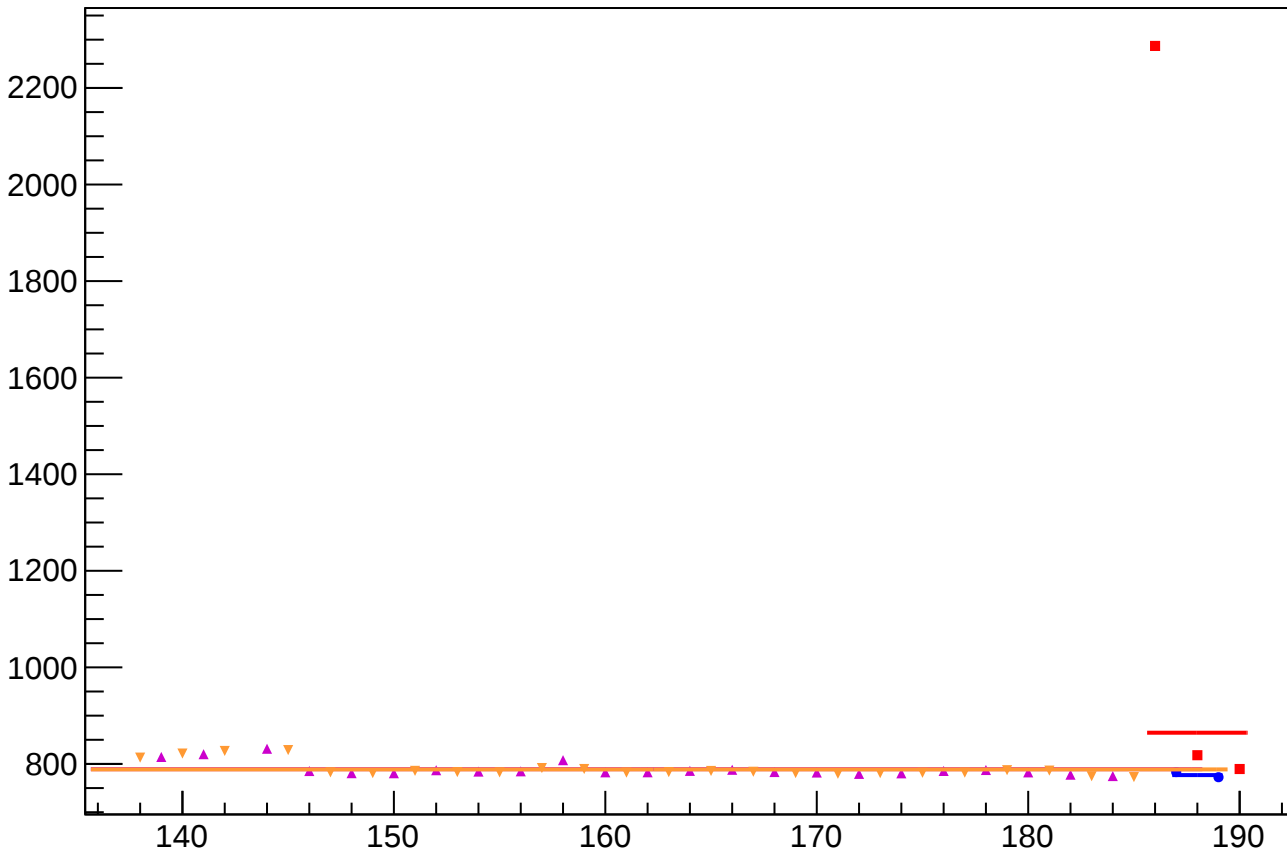
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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 $\chi^2/\text{NDF}: 22367.7/46$

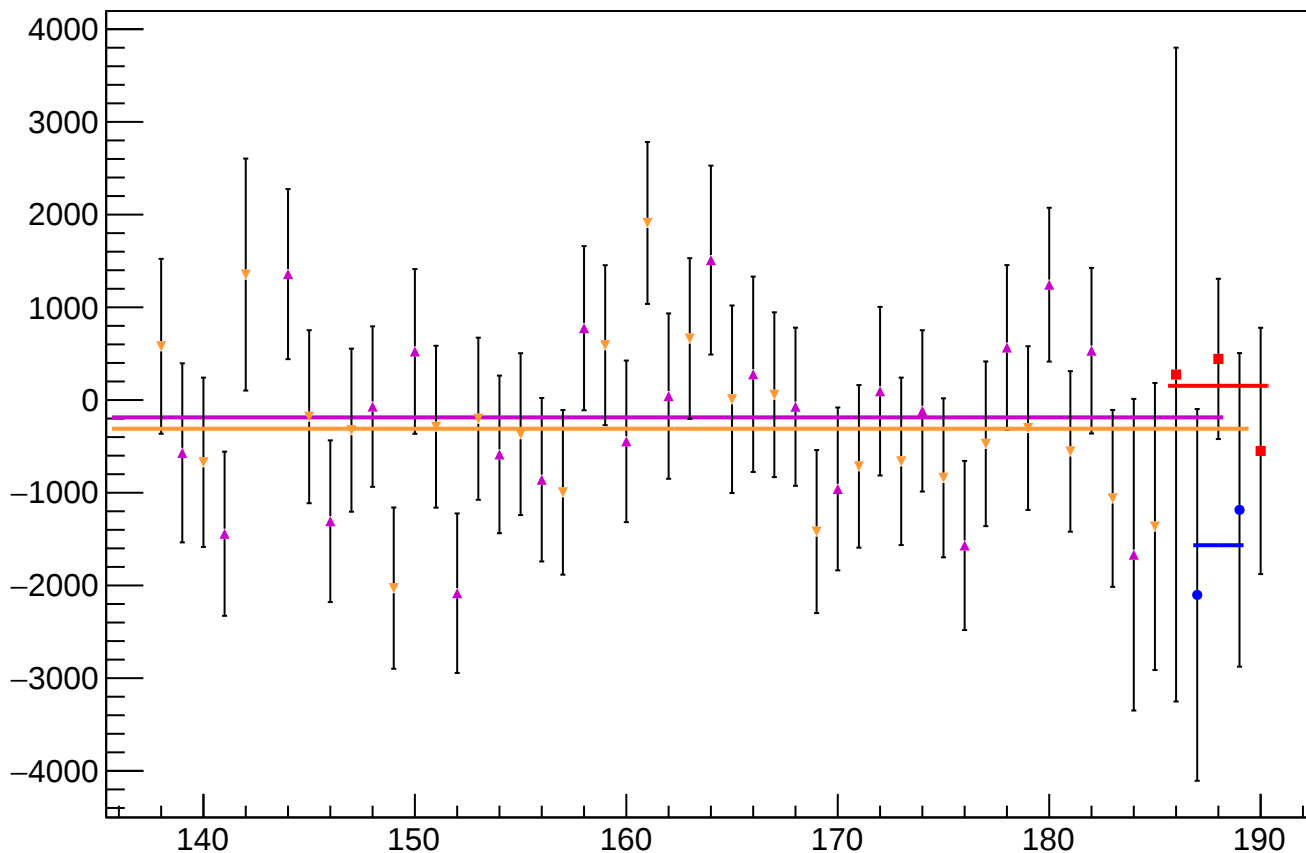
Right: 844.207+/-0.443 χ^2/NDF : 313539.0/4

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

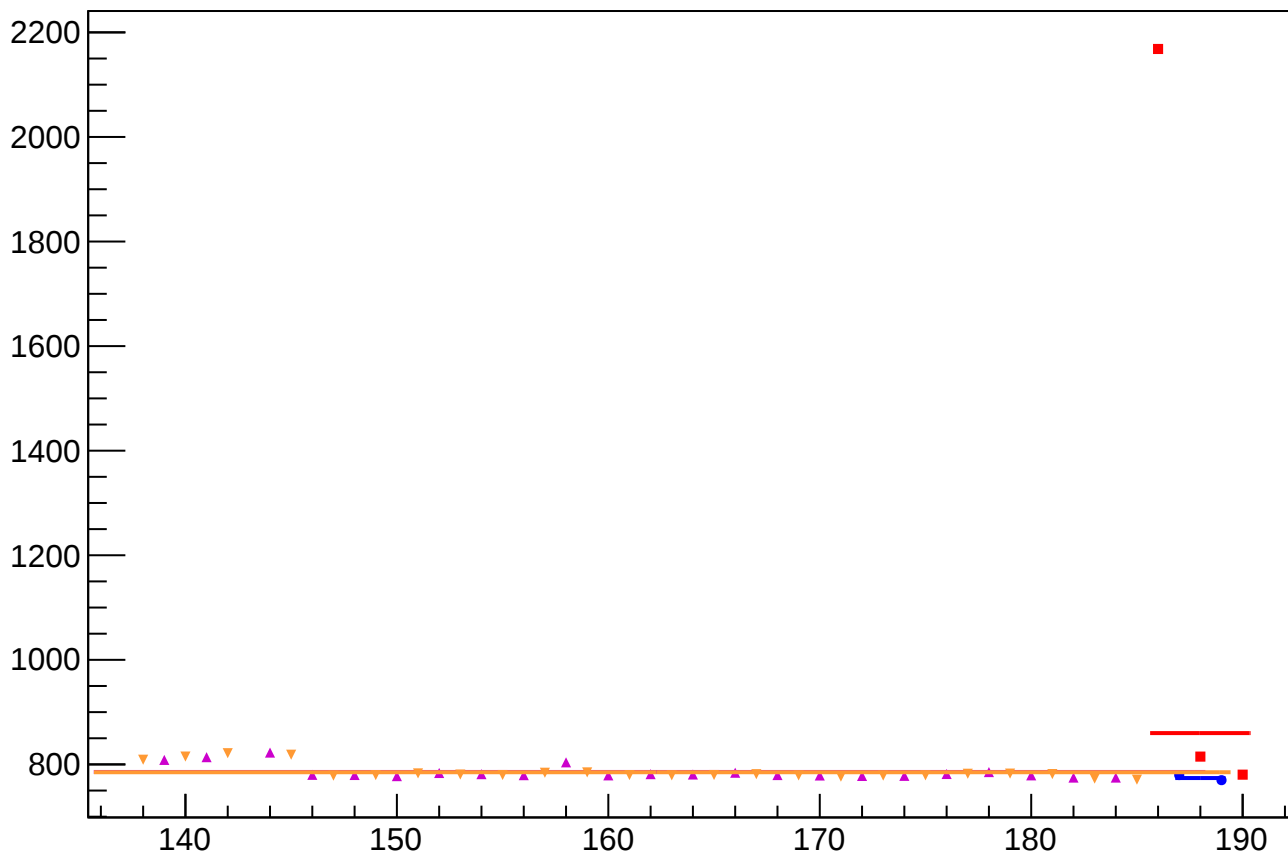
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

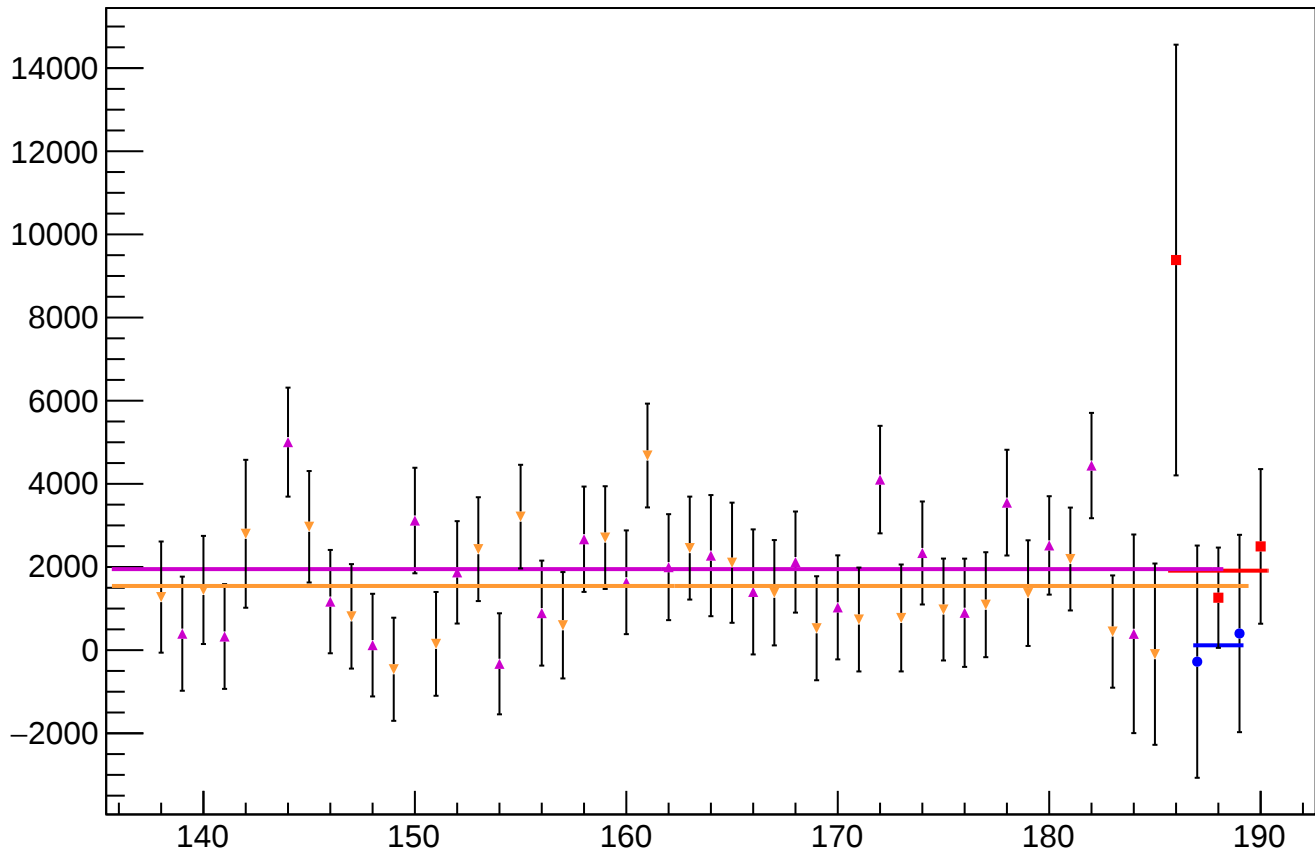
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

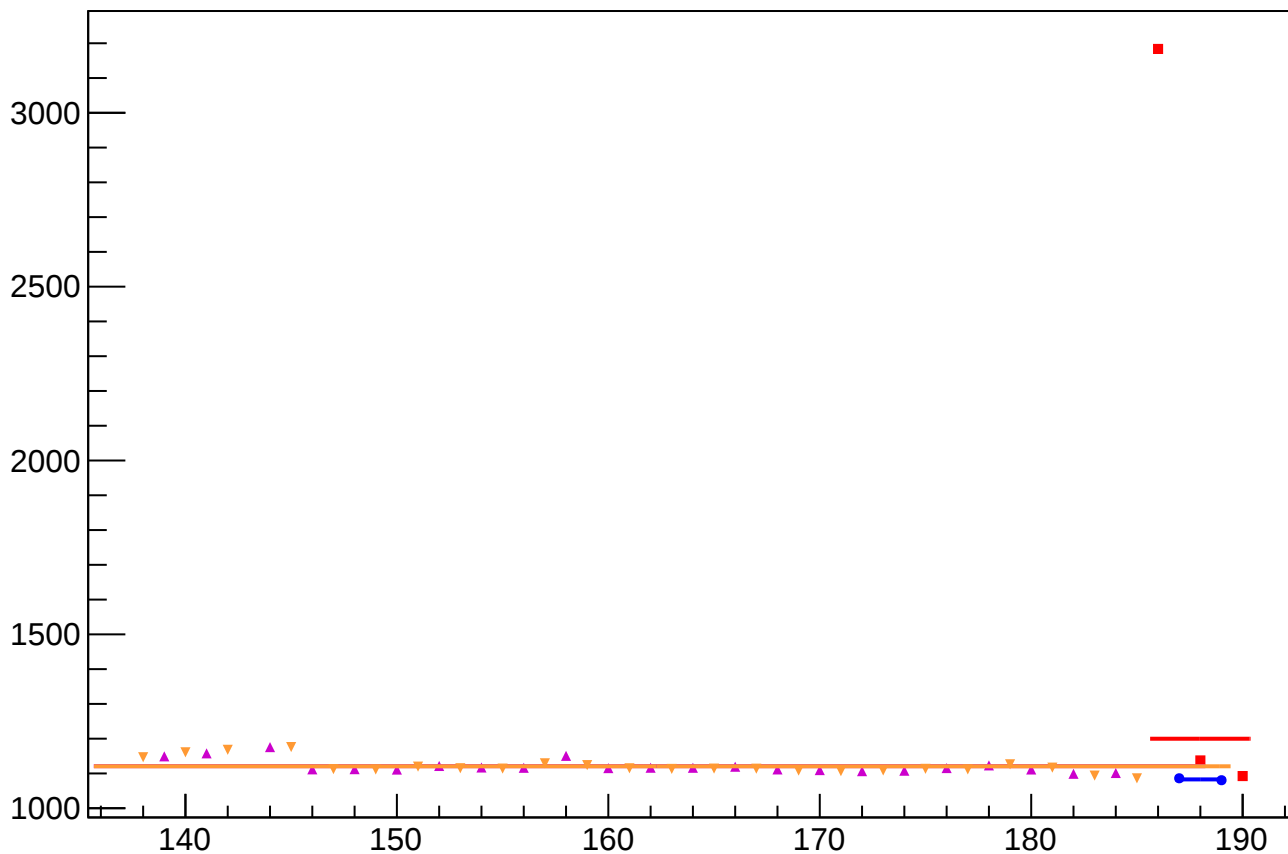
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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 $\pm$ 1.279 χ^2 /NDF: 4.6/1

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

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

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

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

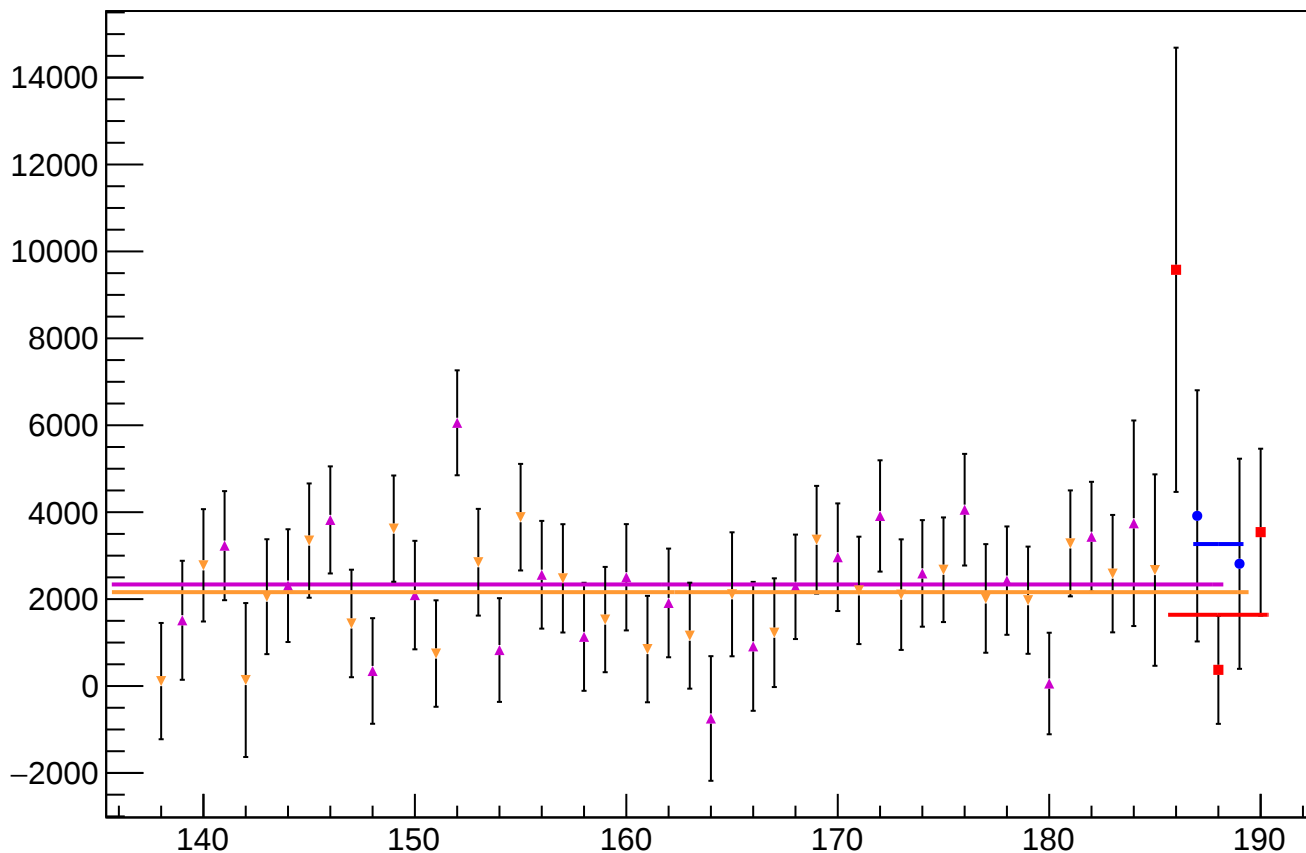
Right: 1172.741 $\pm$ 0.616 χ^2 /NDF: 311788.3/4

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

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

All: 1123.129 $\pm$ 0.131 χ^2 /NDF: 338117.1/51

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

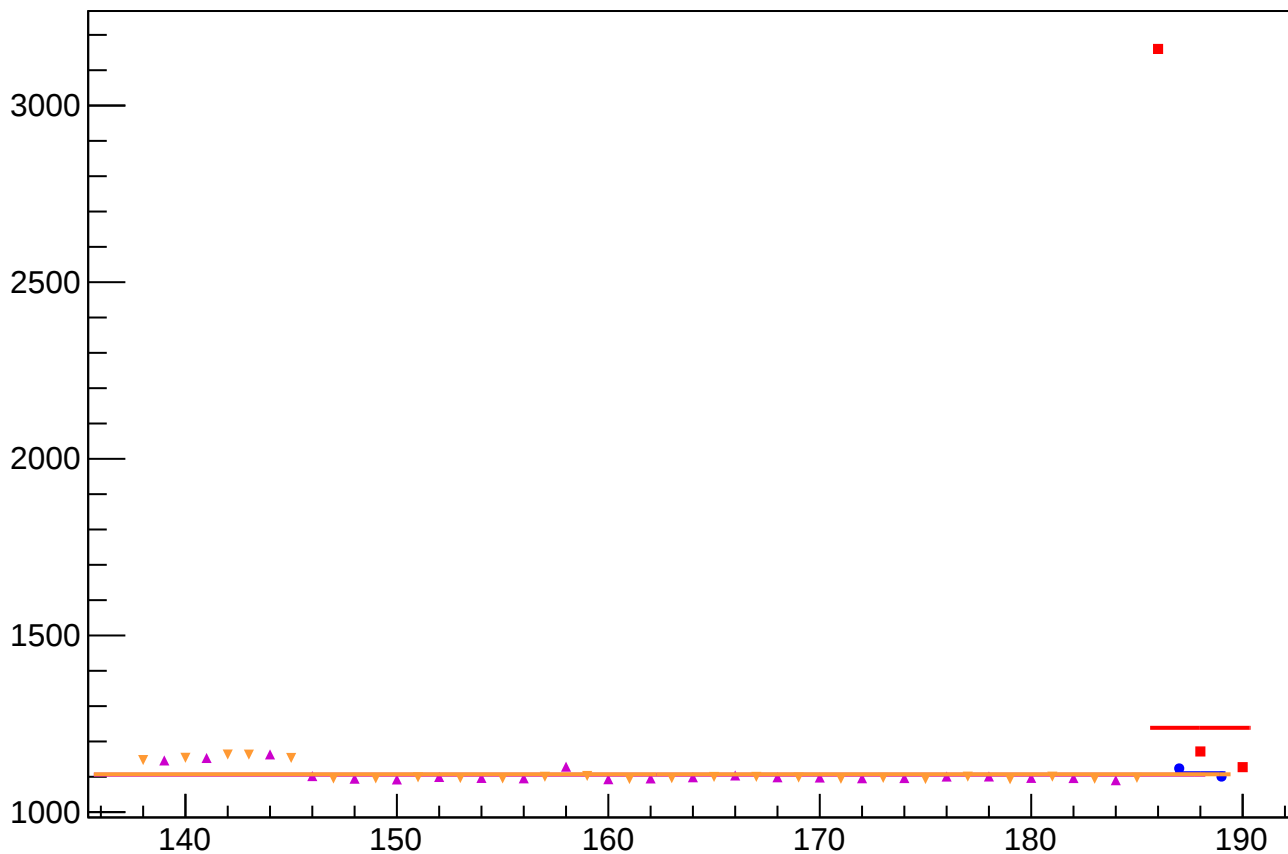
Right: 2018.696 $\pm$ 895.144 χ^2/NDF : 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1110.109+/-1.311 χ^2 /NDF: 75.3/1

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

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

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

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

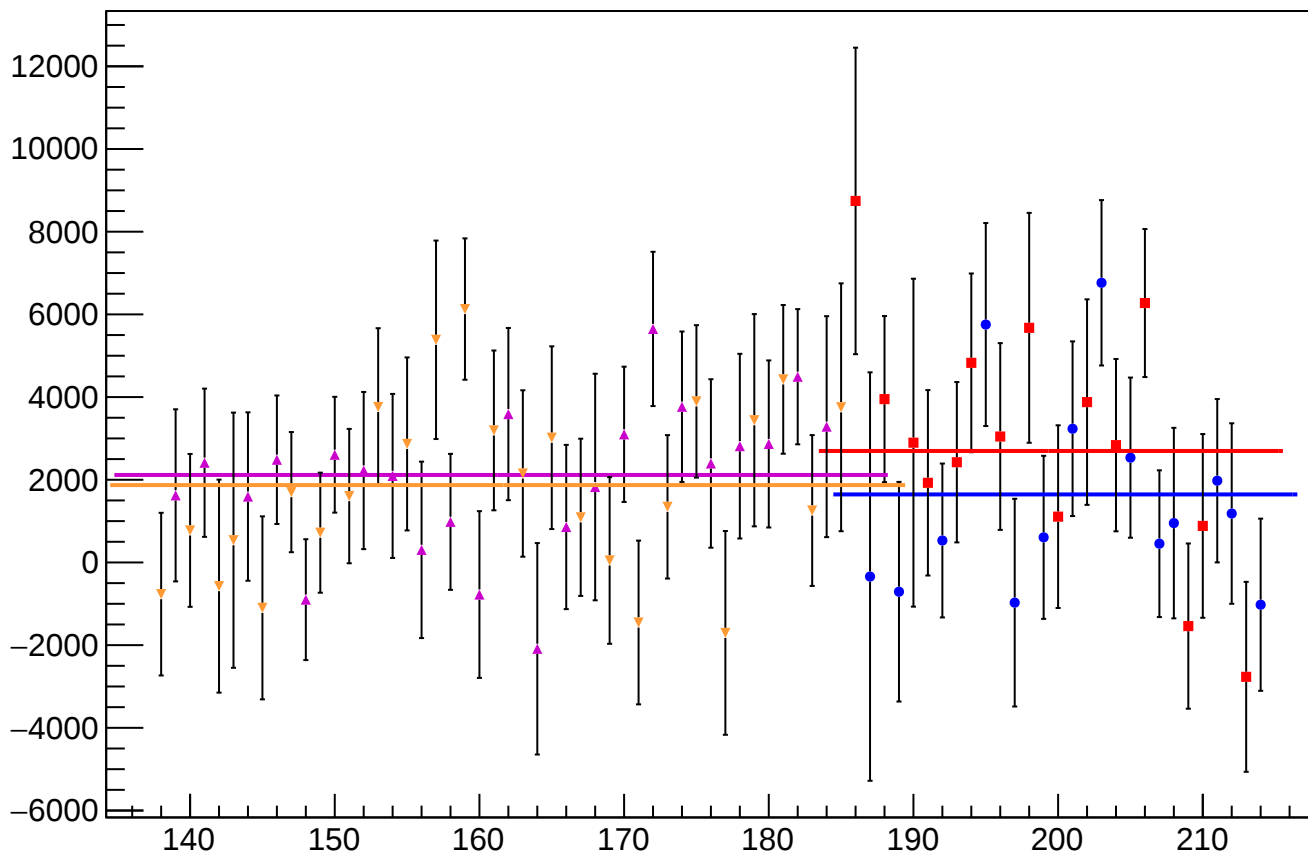
Right: 1208.687+/-0.633 χ^2 /NDF: 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 1645.350+/-577.707 χ^2/NDF : 15.1/13

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

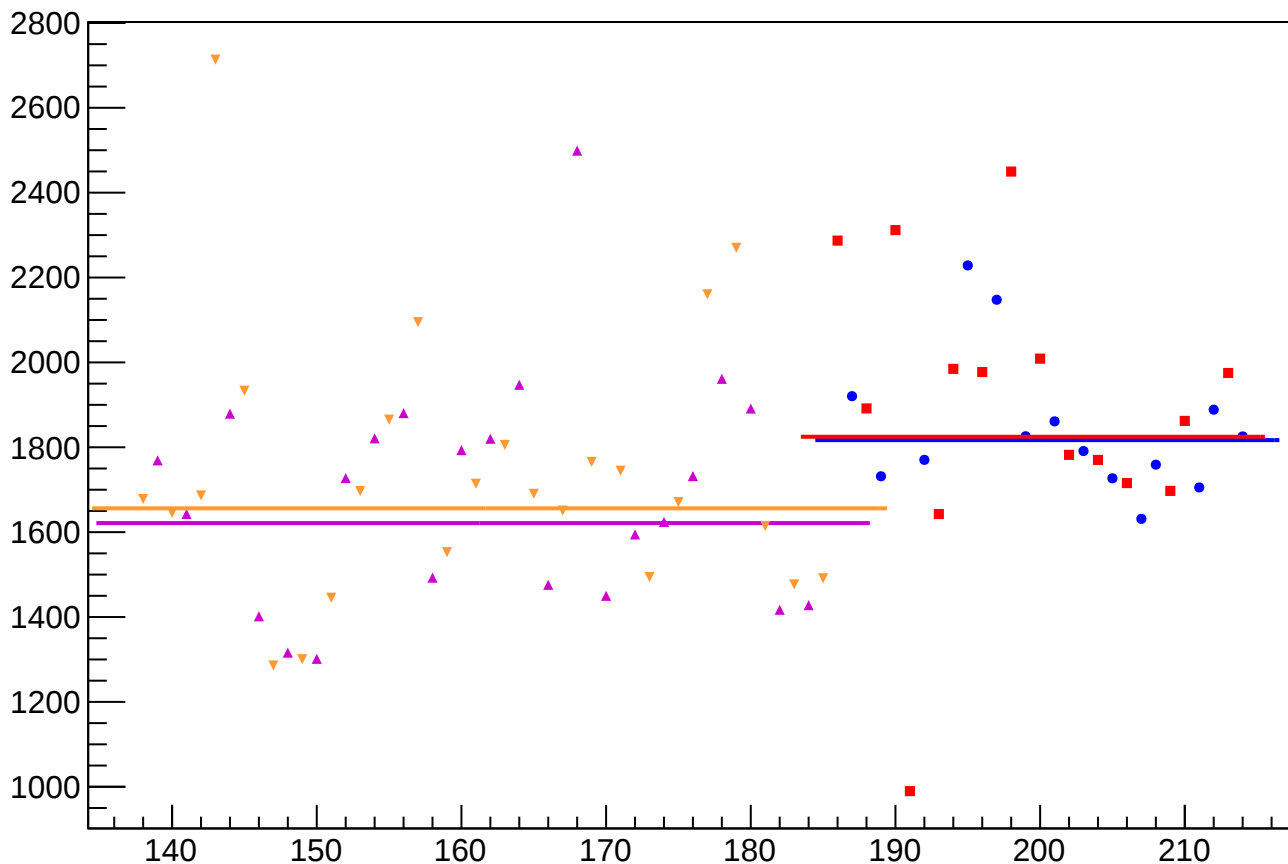
Right: 2165.952+/-410.436 χ^2/NDF : 37.6/28

In: 1967.181+/-324.939 χ^2/NDF : 34.3/36

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

All: 2047.559+/-229.844 χ^2/NDF : 82.8/76

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1816.864 $\pm$ 0.409 χ^2/NDF : 132365.2/13

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

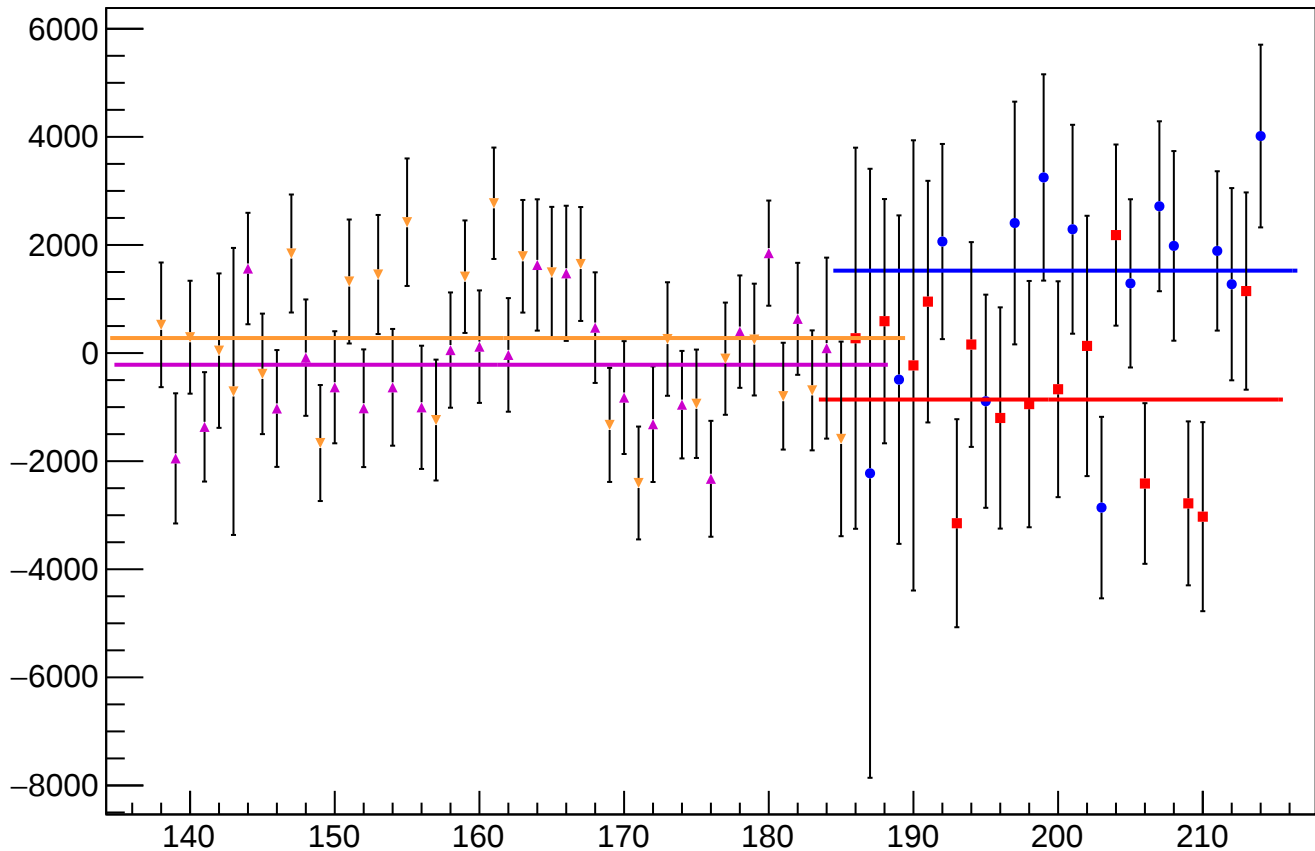
Right: 1820.783 $\pm$ 0.290 χ^2/NDF : 652691.2/28

In: 1683.249 $\pm$ 0.230 χ^2/NDF : 1064170.2/36

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

All: 1695.888 $\pm$ 0.163 χ^2/NDF : 2616204.3/76

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1524.939 $\pm$ 495.831 χ^2 /NDF: 13.3/13

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

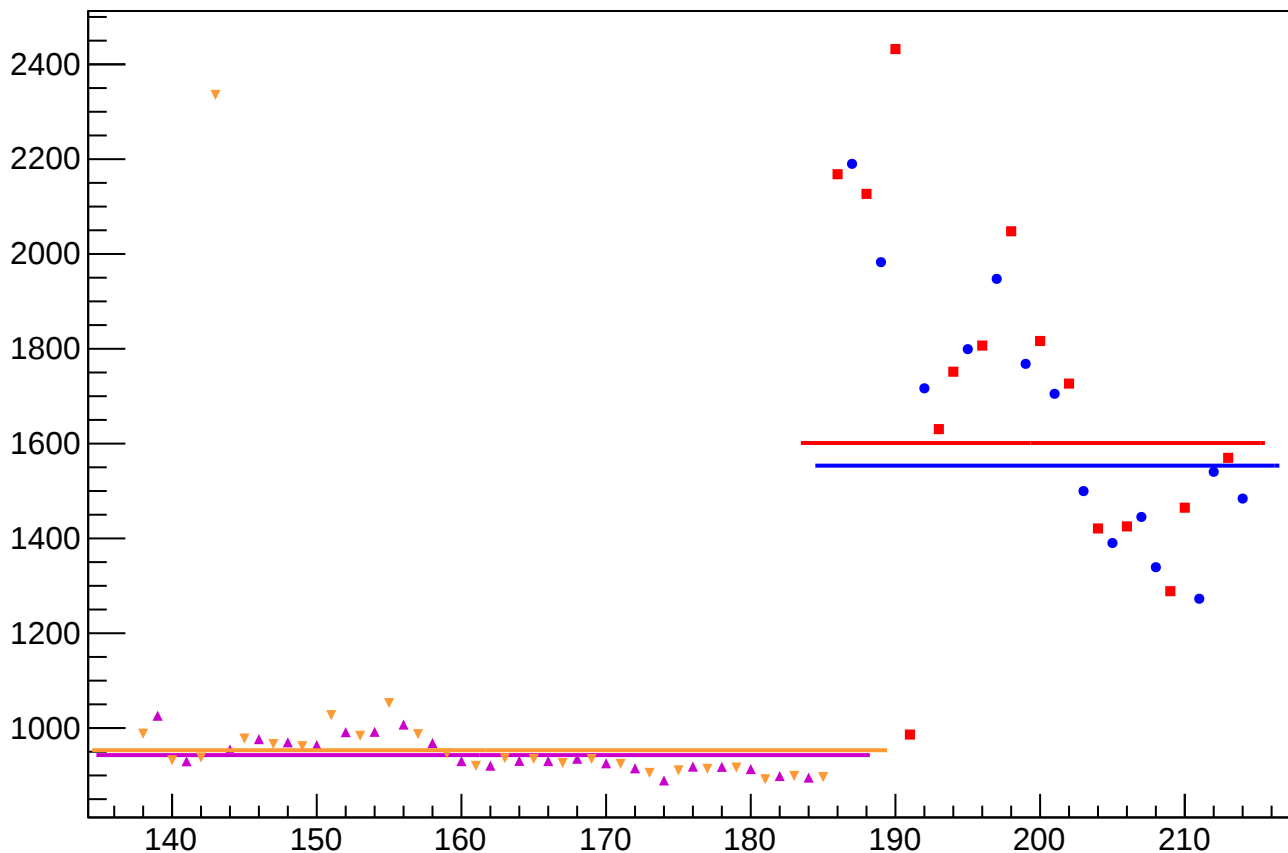
Right: 371.916 $\pm$ 356.338 χ^2 /NDF: 36.4/28

In: 82.494 $\pm$ 205.344 χ^2 /NDF:48.0/36

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

All: 89.331 $\pm$ 145.052 χ^2 /NDF: 102.4/76

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1553.516+/-0.351 χ^2/NDF : 351388.8/13

Left Out: 953.221+/-0.158 χ^2/NDF : 606273.1/24

Right Out: 1601.308+/-0.362 χ^2/NDF : 678469.4/14

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

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

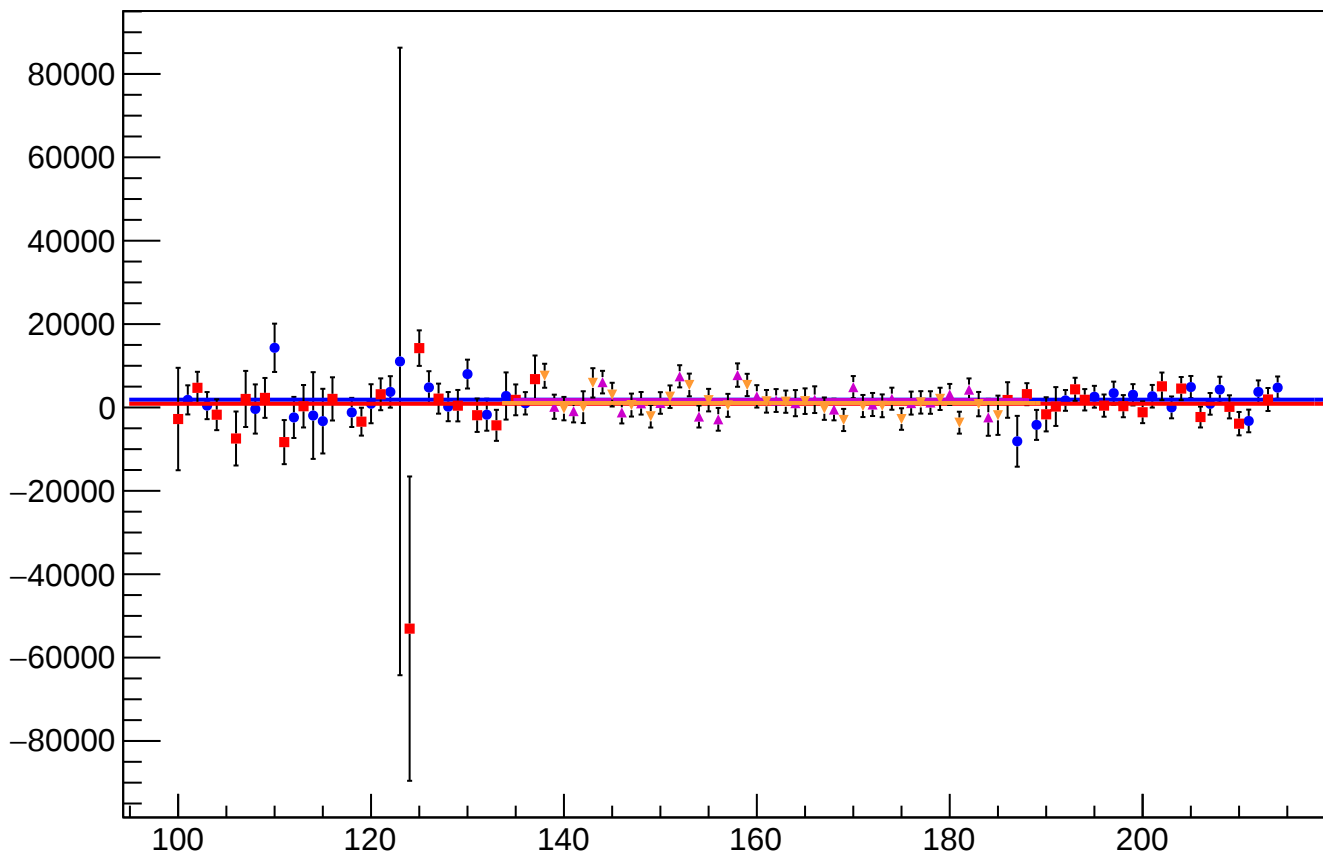
Right: 1576.624+/-0.252 χ^2/NDF : 1038842.7/28

In: 1047.651+/-0.145 χ^2/NDF : 2912525.4/36

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

All: 1052.264+/-0.103 χ^2/NDF : 6886534.1/76

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1868.995+/-603.248 χ^2/NDF : 26.2/30

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

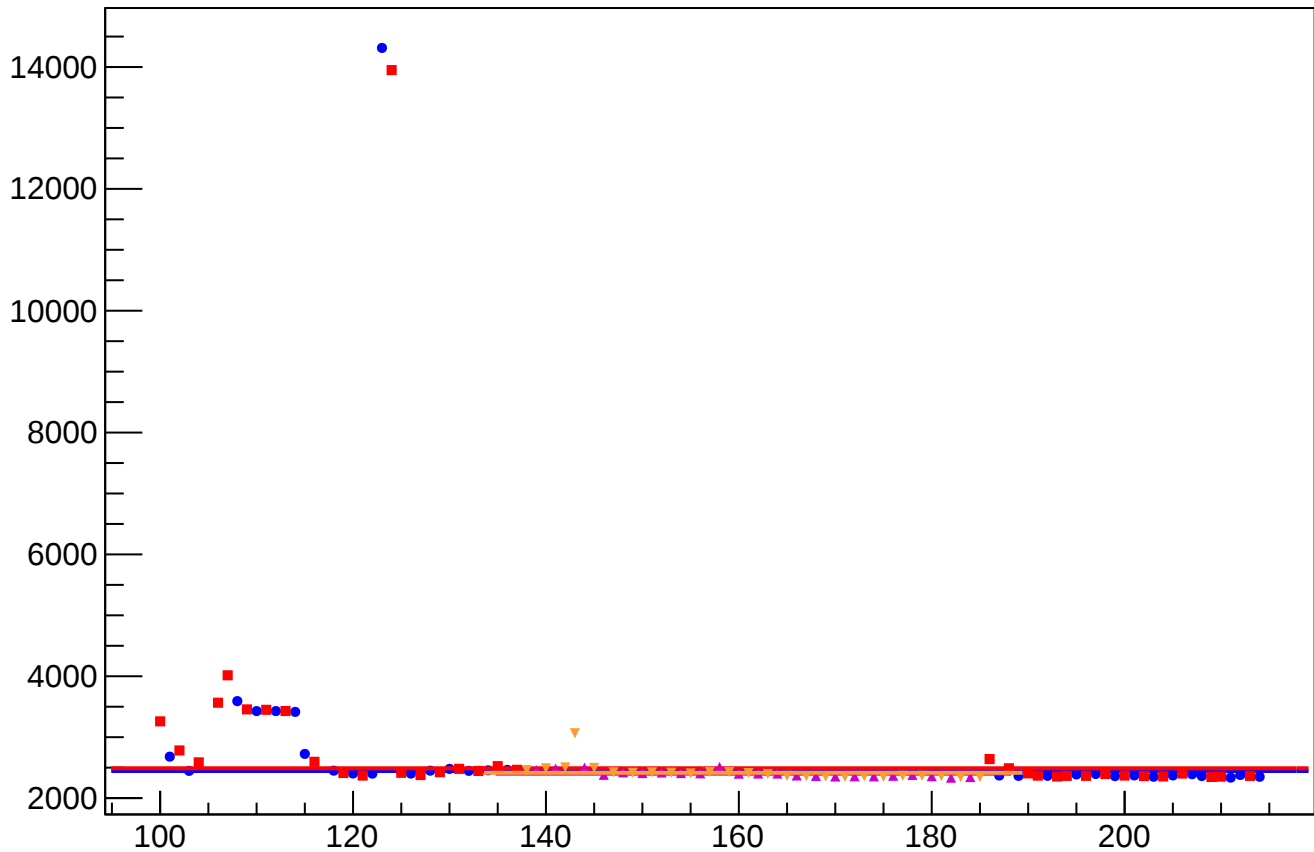
Right: 1377.905+/-427.138 χ^2/NDF : 63.3/64

In: 1820.917+/-416.553 χ^2/NDF : 50.3/53

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

All: 1400.330+/-293.107 χ^2/NDF : 111.7/112

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2445.466 $\pm$ 0.427 χ^2 /NDF: 314329.1/30

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

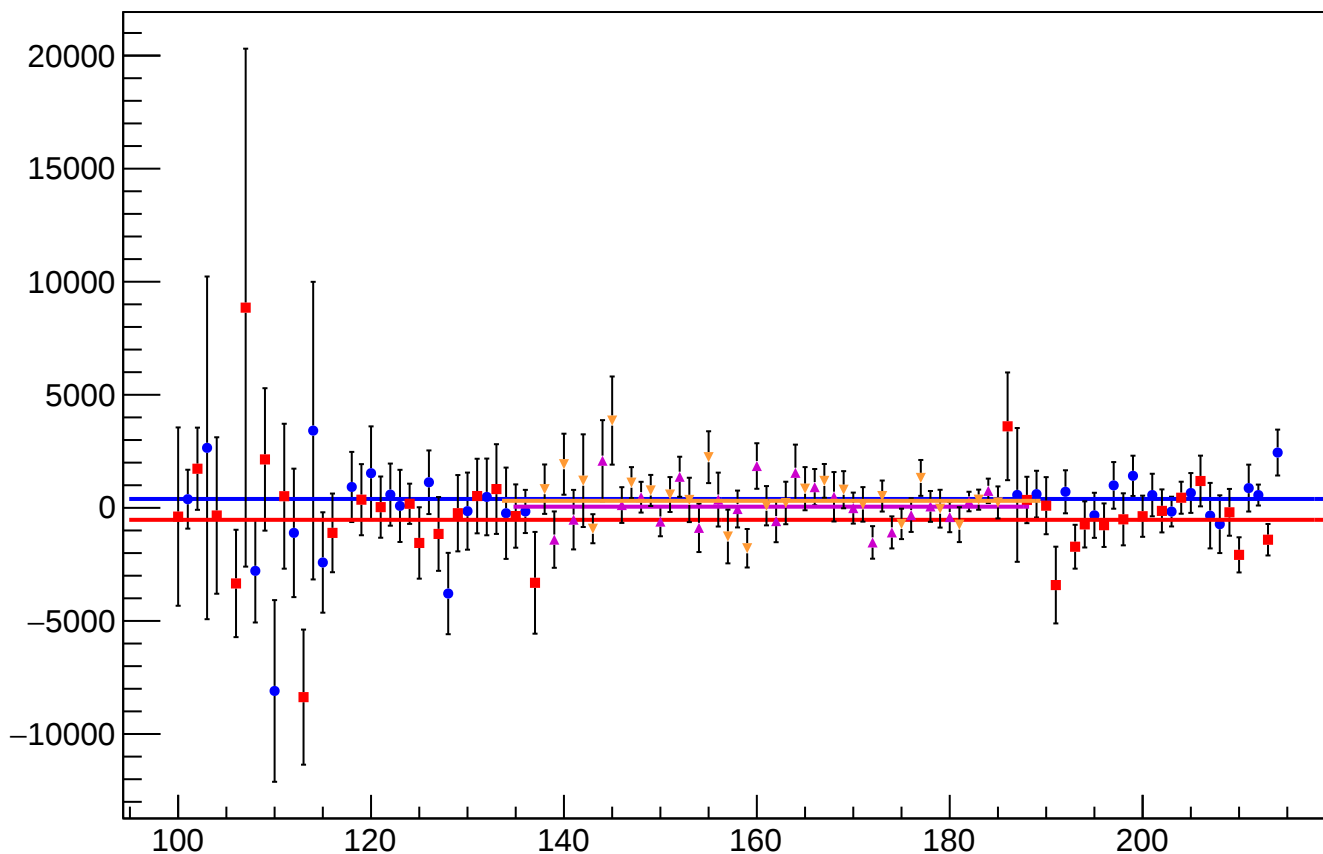
Right: 2467.492 $\pm$ 0.302 χ^2 /NDF: 968340.8/64

In: 2422.423 $\pm$ 0.295 χ^2 /NDF: 333654.7/53

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

All: 2436.476 $\pm$ 0.207 χ^2 /NDF: 1085311.2/111

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 393.539 $\pm$ 206.798 χ^2 /NDF: 23.9/30

Left Out: 310.873 $\pm$ 160.650 χ^2 /NDF:29.7/24

Right Out: -529.118 $\pm$ 214.840 χ^2 /NDF: 34.2/33

Left In: 51.454 $\pm$ 161.744 χ^2 /NDF:23.8/22

Left: 182.044 $\pm$ 113.982 χ^2 /NDF: 54.9/47

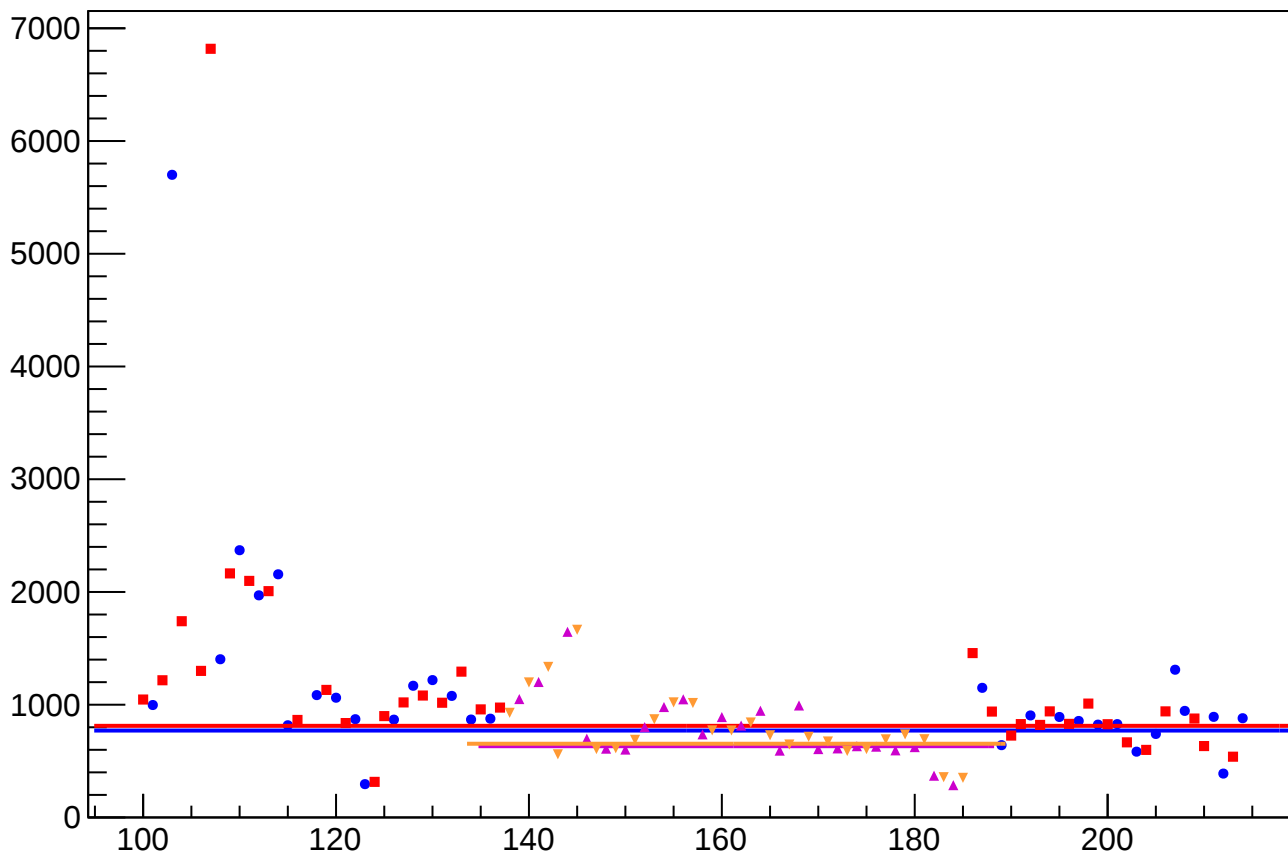
Right: -50.198 $\pm$ 148.990 χ^2 /NDF: 67.7/64

In: 181.293 $\pm$ 127.403 χ^2 /NDF:49.5/53

Out: 9.629 $\pm$ 128.658 χ^2 /NDF:73.8/58

All: 96.302 $\pm$ 90.528 χ^2 /NDF: 124.1/112

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 770.866 $\pm$ 0.146 χ^2 /NDF: 4522982.7/30

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

Right Out: 812.655 $\pm$ 0.152 χ^2 /NDF: 3830942.3/33

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

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

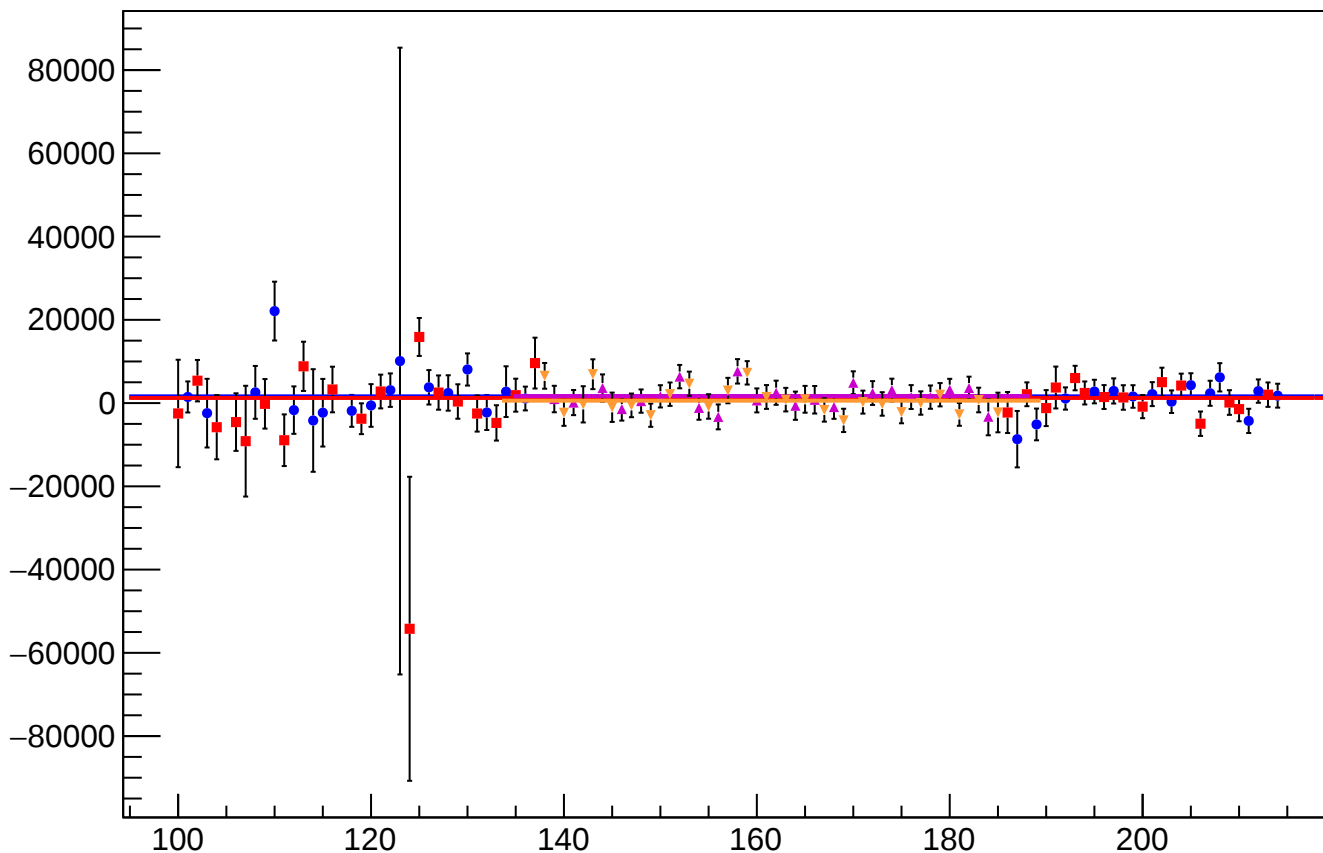
Right: 790.964 $\pm$ 0.105 χ^2 /NDF: 8393202.4/64

In: 684.740 $\pm$ 0.090 χ^2 /NDF:9024957.7/53

Out: 710.771 $\pm$ 0.091 χ^2 /NDF:7786926.7/58

All: 697.628 $\pm$ 0.064 χ^2 /NDF: 16853224.2/11

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1613.221+/-662.030 χ^2/NDF : 27.8/30

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

Right Out: 1234.960+/-667.743 χ^2/NDF : 39.2/33

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

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

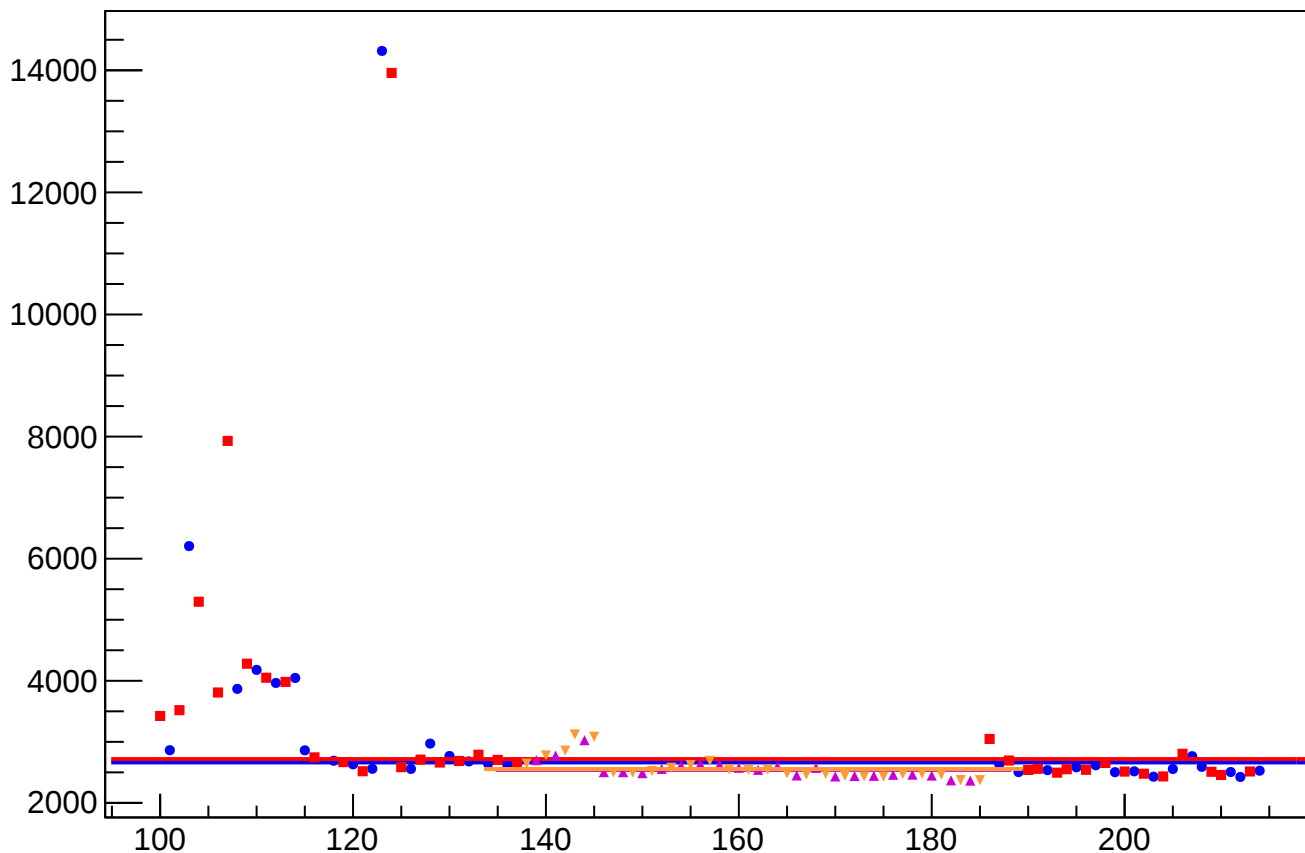
Right: 1425.716+/-470.133 χ^2/NDF : 67.1/64

In: 1649.100+/-448.647 χ^2/NDF : 45.9/53

Out: 871.541+/-445.131 χ^2/NDF : 65.1/58

All: 1257.262+/-315.991 χ^2/NDF : 112.5/112

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2662.837+/-0.468 χ^2/NDF : 800438.8/30

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

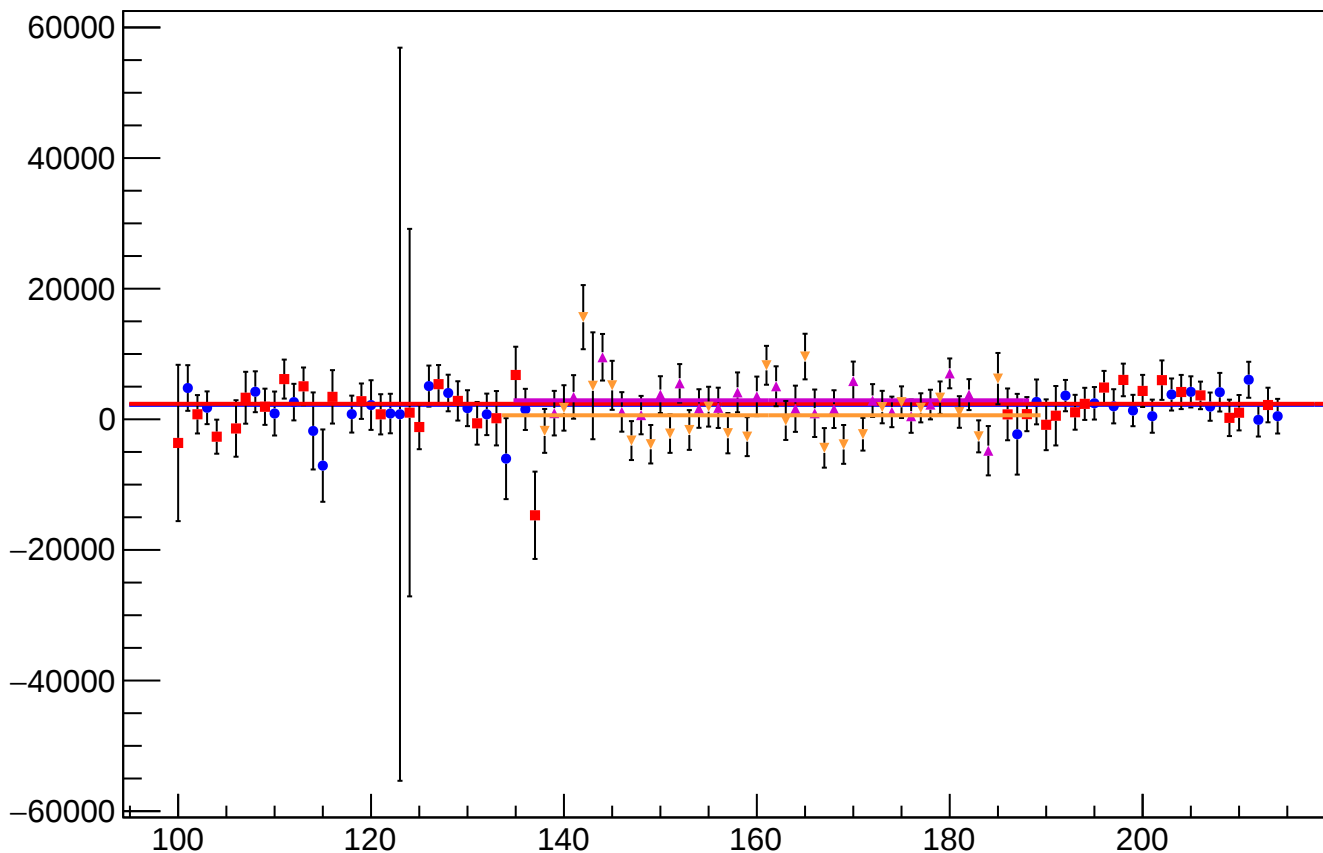
Right: 2690.130+/-0.332 χ^2/NDF : 2083288.2/64

In: 2596.948+/-0.317 χ^2/NDF :931832.0/53

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

All: 2612.366+/-0.223 χ^2/NDF : 2433159.6/111

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2212.531+/-532.314 χ^2/NDF : 14.5/30

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

Right Out: 2373.002+/-527.805 χ^2/NDF : 27.3/33

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

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

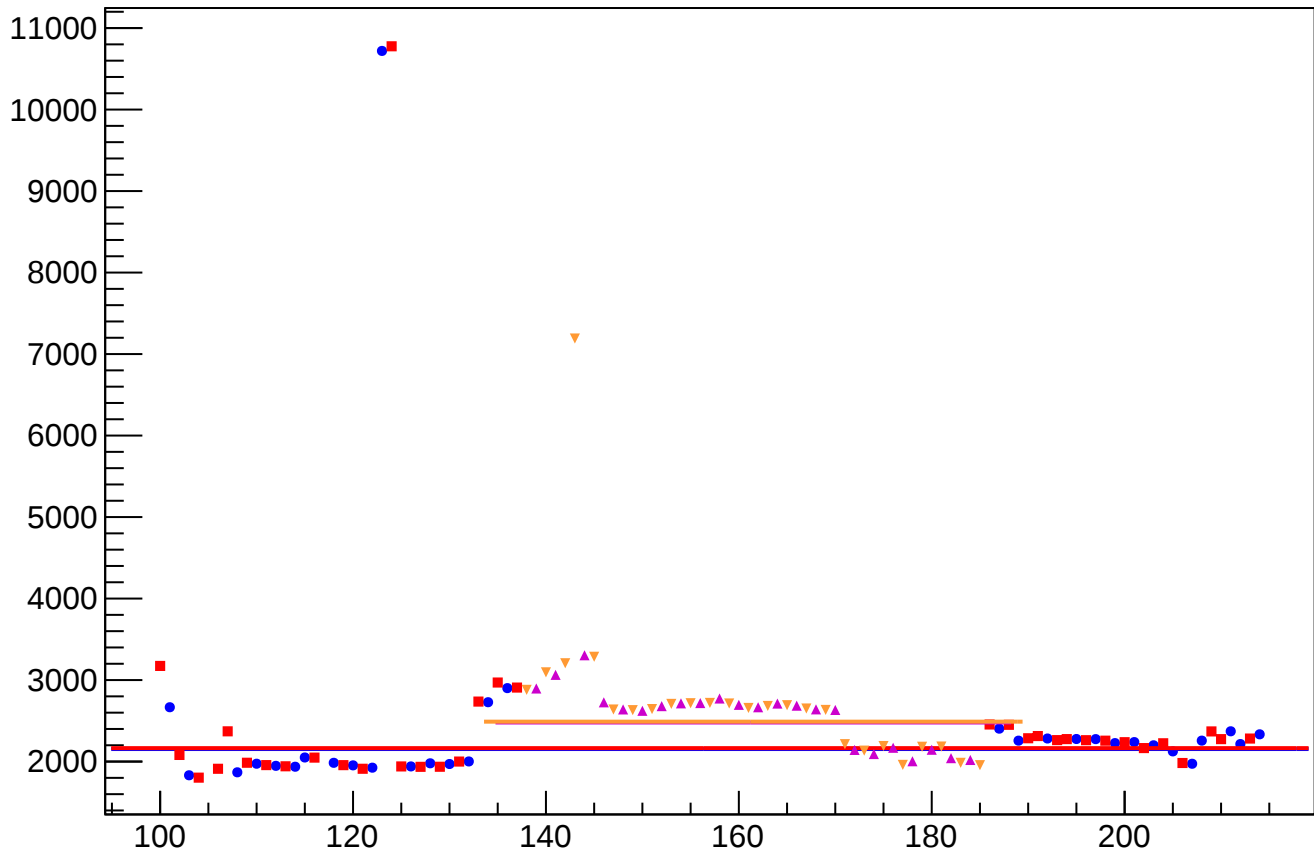
Right: 2293.449+/-374.799 χ^2/NDF : 41.8/64

In: 2519.515+/-398.096 χ^2/NDF : 32.6/53

Out: 1593.142+/-393.712 χ^2/NDF : 77.4/58

All: 2051.199+/-279.934 χ^2/NDF : 112.7/112

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2153.787 $\pm$ 0.376 χ^2 /NDF: 408204.3/30

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

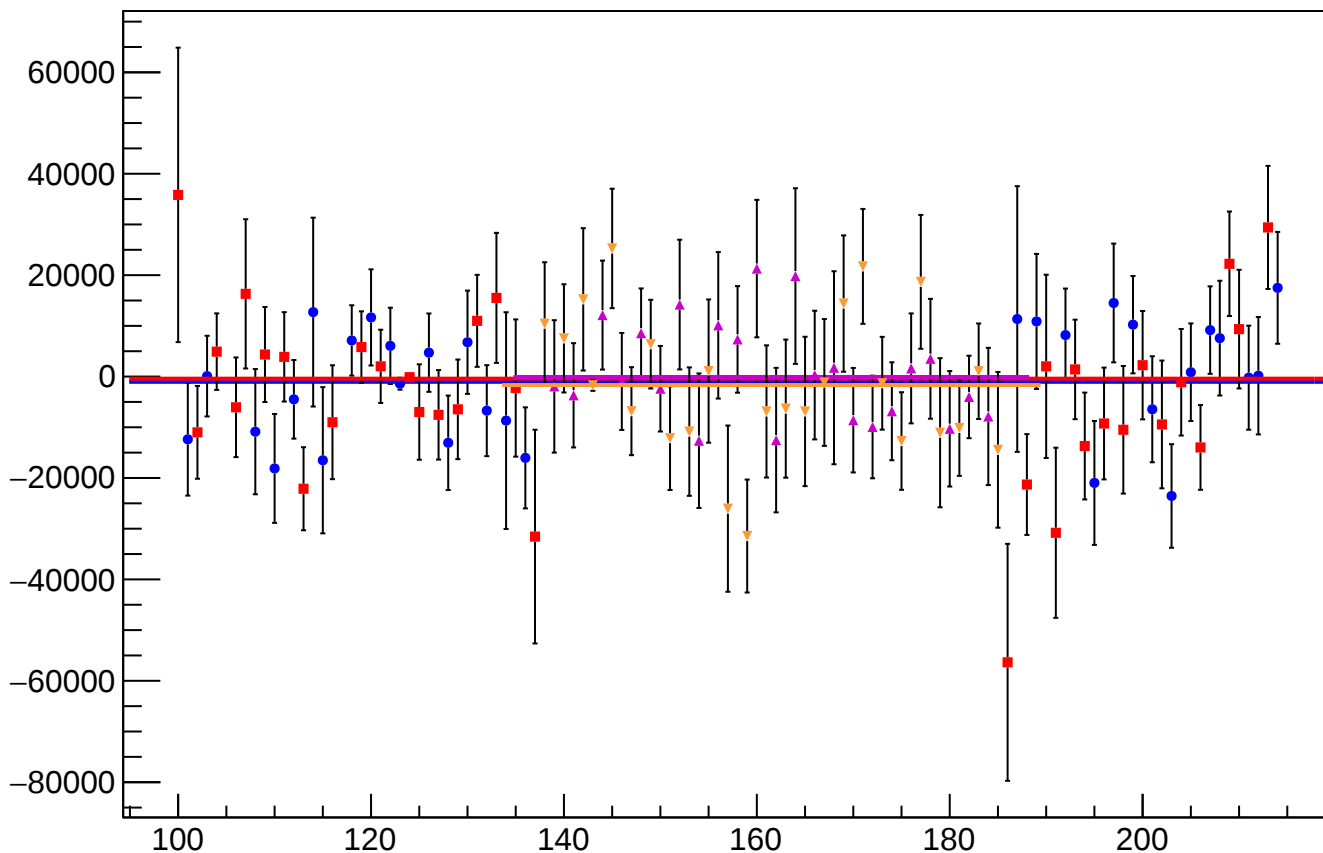
Right: 2159.332 $\pm$ 0.265 χ^2 /NDF: 975857.0/64

In: 2297.263 $\pm$ 0.281 χ^2 /NDF:1406294.5/53

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

All: 2303.122 $\pm$ 0.198 χ^2 /NDF: 3674516.9/11

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1028.091 ± 990.739 χ^2/NDF : 33.7/30

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

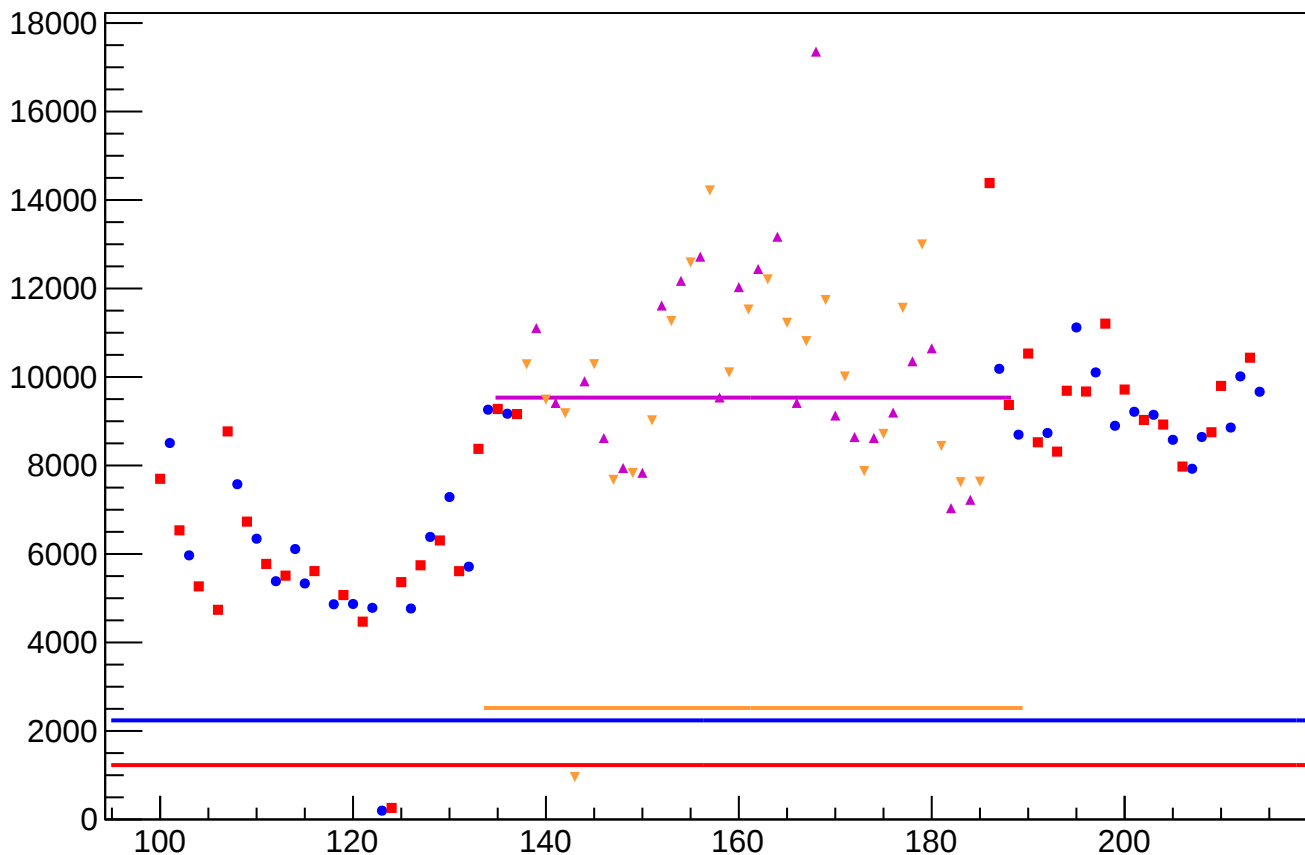
Right: -608.368 ± 558.886 χ^2/NDF : 86.1/64

In: -883.123 ± 911.830 χ^2/NDF : 47.7/53

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

All: -829.923 ± 476.759 χ^2/NDF : 133.3/112

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2239.183+/-0.701 χ^2/NDF : 22925706.1/30

Left Out: 2519.359+/-0.702 χ^2/NDF : 23642118.3/24

Right Out: 1228.877+/-0.479 χ^2/NDF : 27579819.7/33

Left In: 9533.563+/-1.649 χ^2/NDF : 1316640.0/22

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

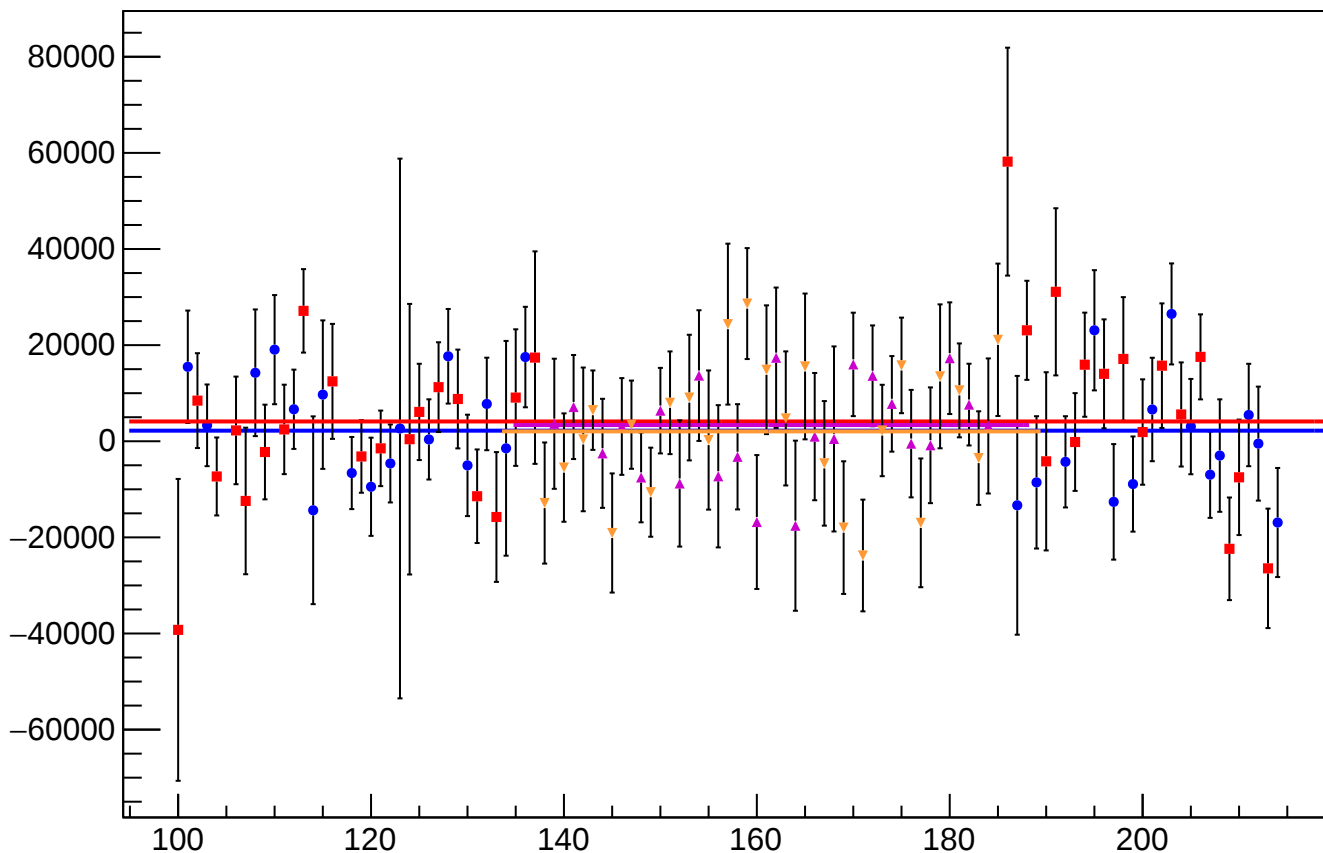
Right: 1550.377+/-0.395 χ^2/NDF : 51923477.4/64

In: 3354.849+/-0.645 χ^2/NDF : 40824237.1/53

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

All: 2107.520+/-0.337 χ^2/NDF : 99502843.2/100

asym_atl2_mean vs Slug, Sign Corrected



Right In: 2202.643 $\pm$ 1934.756 χ^2 /NDF: 31.2/30

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

Right Out: 4118.387 $\pm$ 1900.175 χ^2 /NDF: 51.4/33

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

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

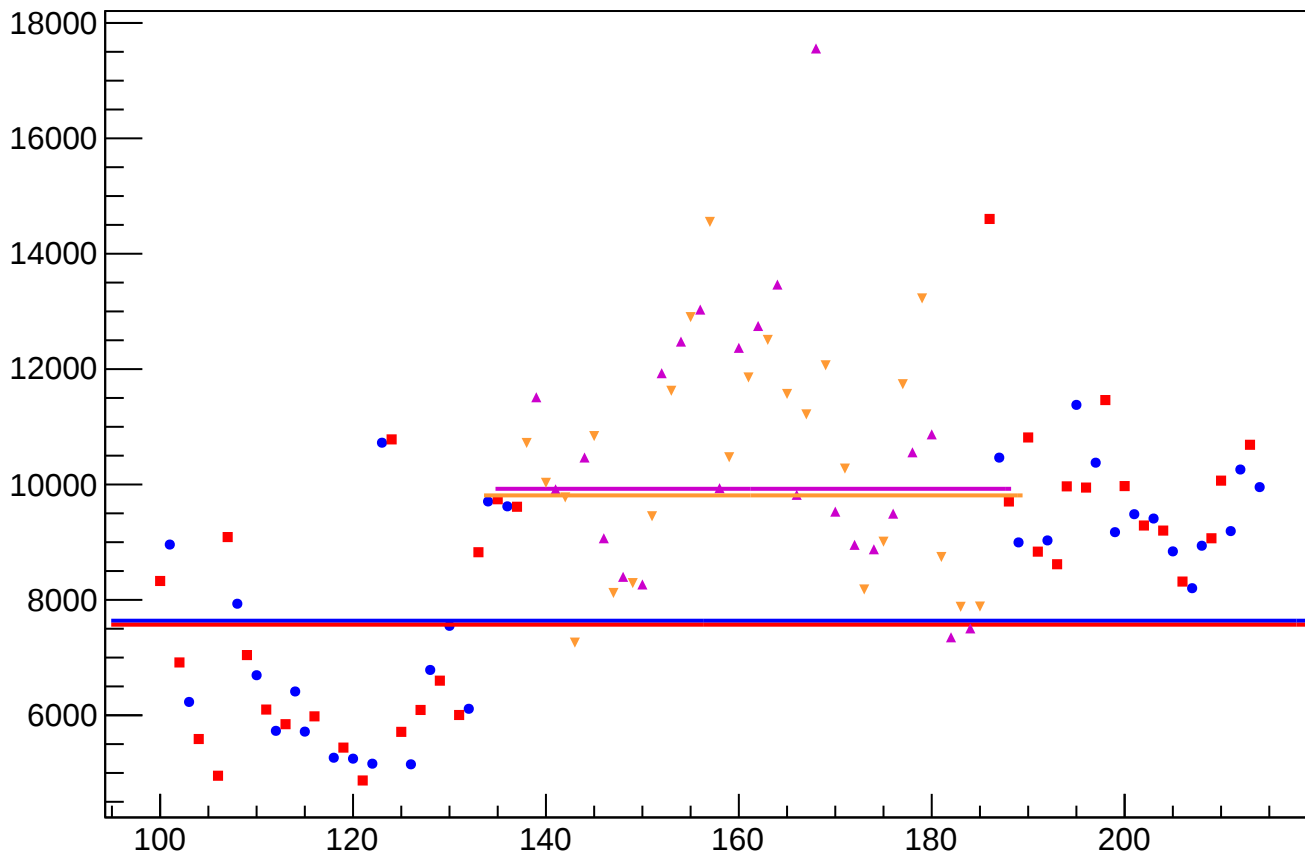
Right: 3177.788 $\pm$ 1355.687 χ^2 /NDF: 83.1/64

In: 2657.848 $\pm$ 1511.958 χ^2 /NDF:44.4/53

Out: 3296.072 $\pm$ 1473.450 χ^2 /NDF:82.6/58

All: 2985.191 $\pm$ 1055.238 χ^2 /NDF: 127.1/112

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7638.867+/-1.368

χ^2/NDF : 1892463.5/30

Left: 9866.039+/-1.189

χ^2/NDF : 2427693.8/47

Left Out: 9811.053+/-1.650

χ^2/NDF : 1213831.0/24

Right: 7603.821+/-0.959

χ^2/NDF : 4180090.1/64

Right Out: 7570.018+/-1.344

χ^2/NDF : 2286337.3/33

In: 8528.963+/-1.069

χ^2/NDF : 4191453.8/53

Out: 8463.481+/-1.042

χ^2/NDF : 4609386.2/58

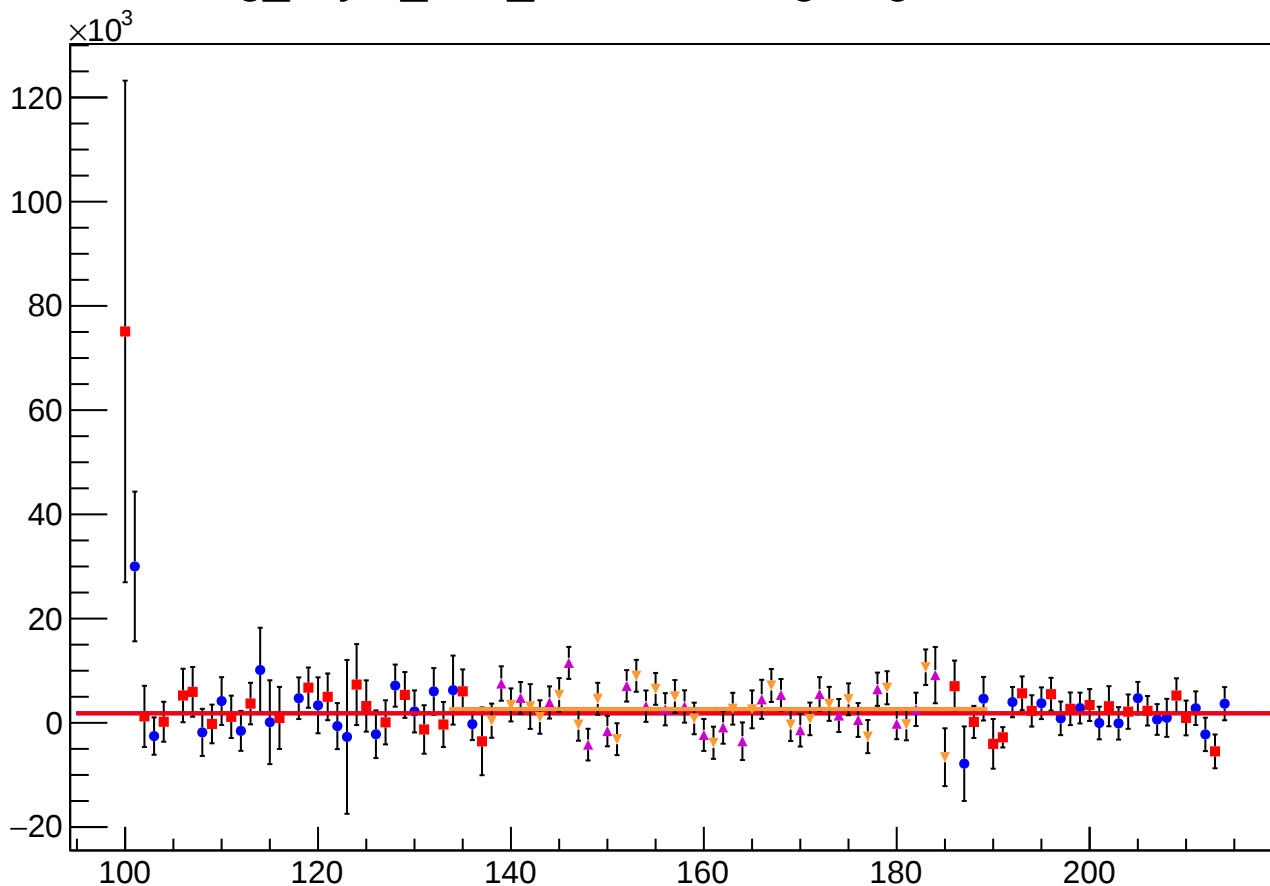
Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

All: 8495.377+/-0.746

χ^2/NDF : 8802764.2/11

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1820.790 $\pm$ 692.595 χ^2 /NDF: 20.7/30

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

Right Out: 1838.518 $\pm$ 645.890 χ^2 /NDF: 28.2/33

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

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

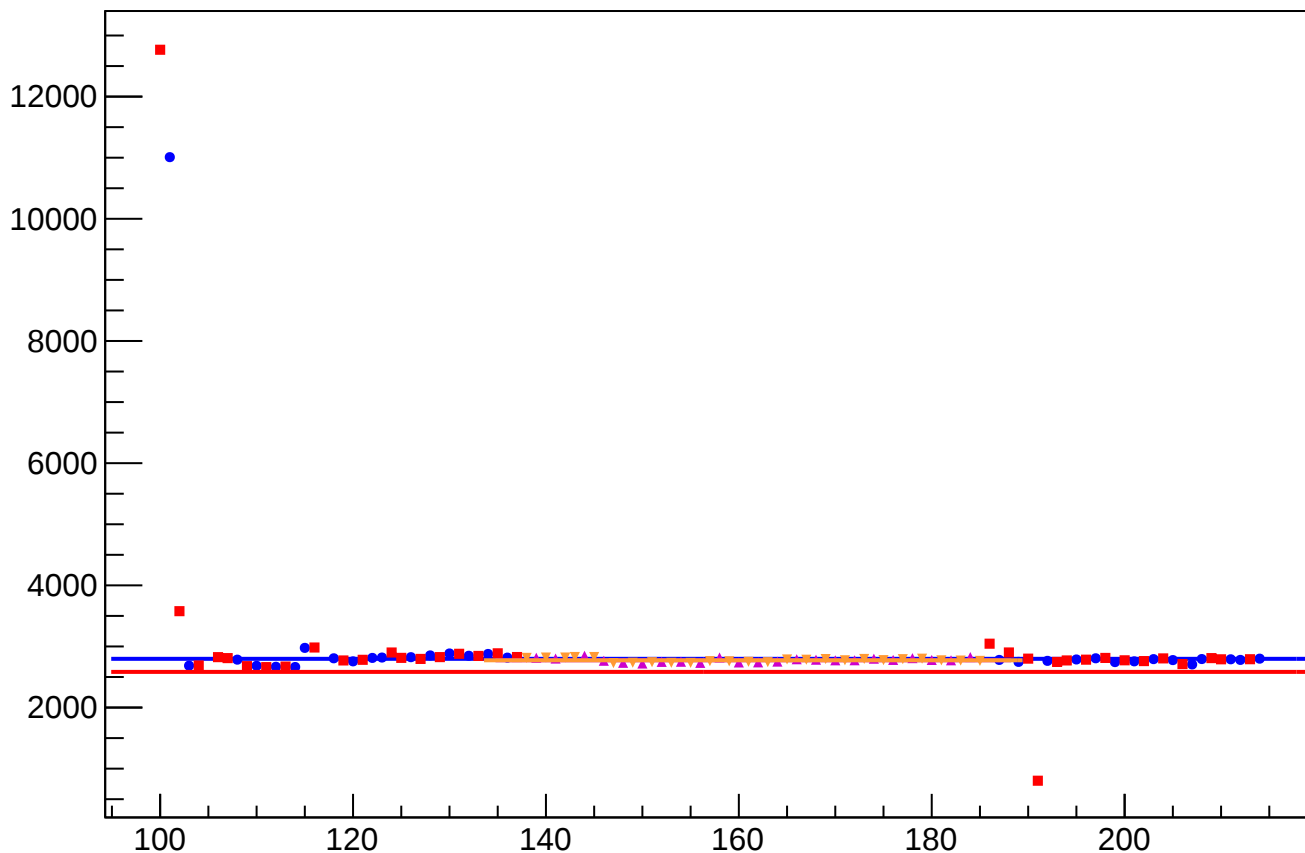
Right: 1830.272 $\pm$ 472.362 χ^2 /NDF: 48.9/64

In: 2246.580 $\pm$ 479.523 χ^2 /NDF:56.7/53

Out: 2237.033 $\pm$ 456.795 χ^2 /NDF:64.0/58

All: 2241.575 $\pm$ 330.746 χ^2 /NDF: 120.7/112

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2797.586+/-0.490 χ^2/NDF : 666687.9/30

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

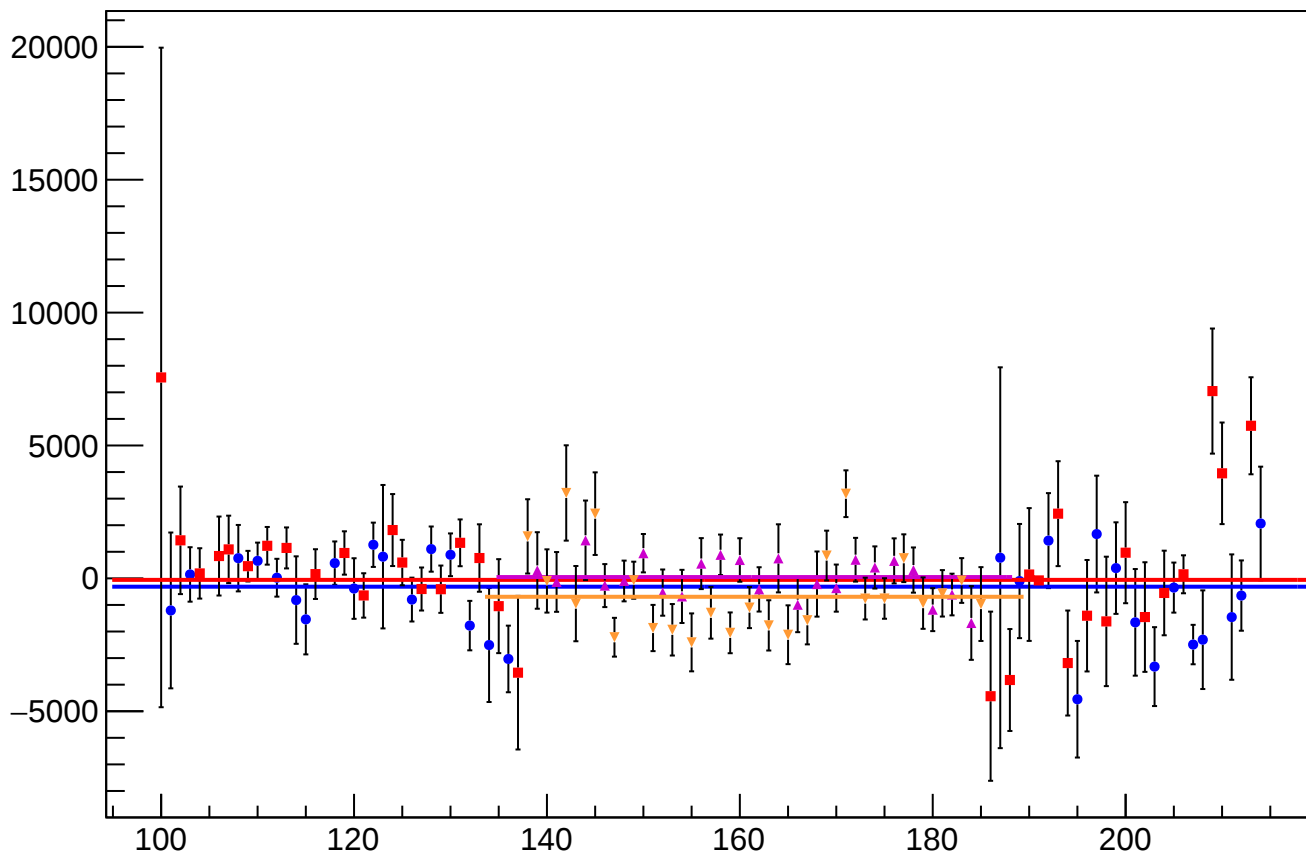
Right: 2683.180+/-0.334 χ^2/NDF : 2791134.6/64

In: 2785.325+/-0.339 χ^2/NDF : 672877.2/53

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

All: 2729.407+/-0.234 χ^2/NDF : 2838314.9/11

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -313.465 ± 207.527 $\chi^2/\text{NDF}: 44.3/30$

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 $\chi^2/\text{NDF}: 77.4/47$

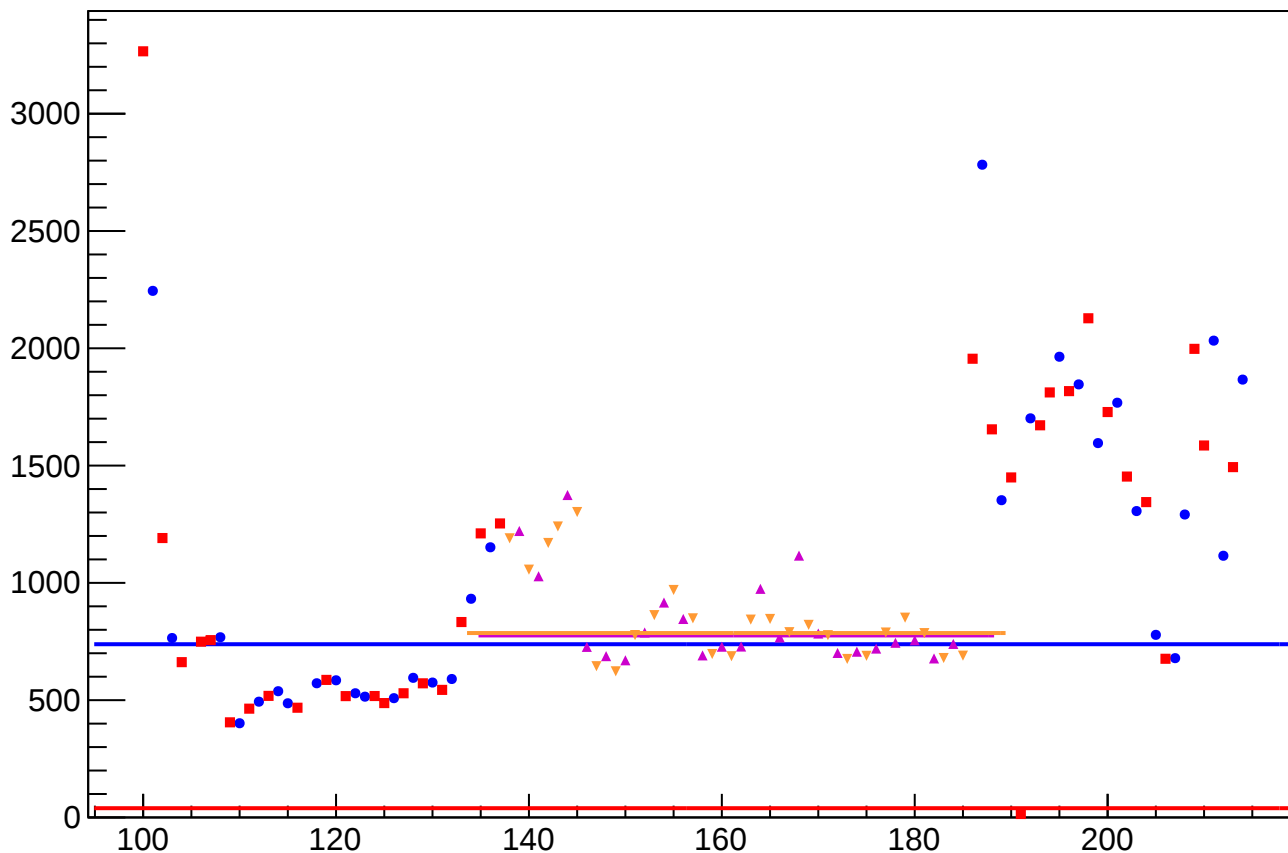
Right: -64.978 ± 37.190 $\chi^2/\text{NDF}: 99.5/64$

In: -115.381 ± 139.812 $\chi^2/\text{NDF}: 59.6/53$

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

All: -83.845 ± 35.819 $\chi^2/\text{NDF}: 180.5/112$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 738.483+/-0.147

χ^2/NDF : 7059472.5/30

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: 61.918+/-0.026

χ^2/NDF : 59860265.8/64

In: 758.934+/-0.099

χ^2/NDF :8151803.9/53

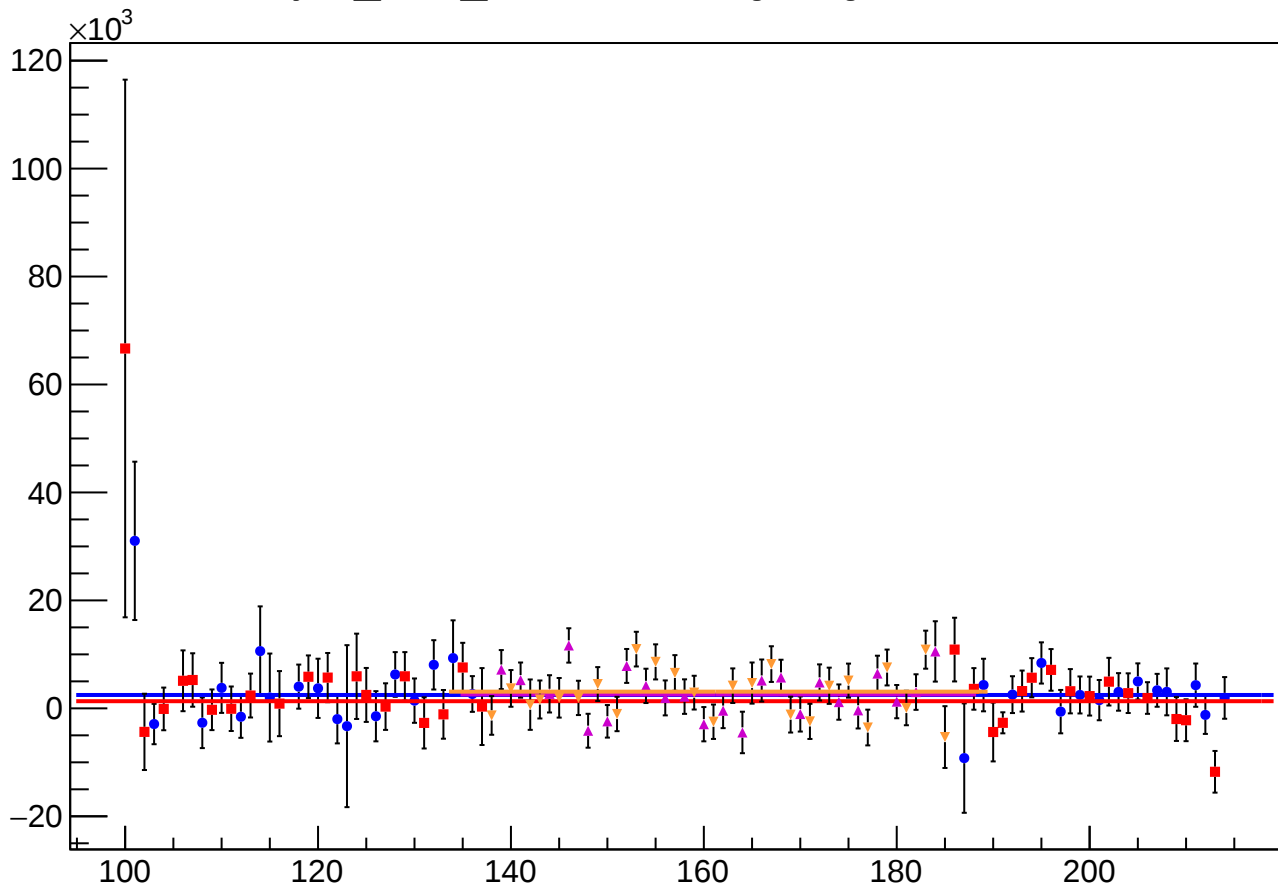
Out: 68.696+/-0.026

χ^2/NDF :62632067.9/58

All: 113.999+/-0.025

χ^2/NDF : 116330525.9/100

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2477.620 ± 766.589 χ^2/NDF : 21.1/30

Left Out: 3094.826 ± 678.510 χ^2/NDF : 38.7/24

Right Out: 1324.805 ± 709.806 χ^2/NDF : 36.9/33

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

Left: 2840.565 ± 485.775 χ^2/NDF : 74.6/47

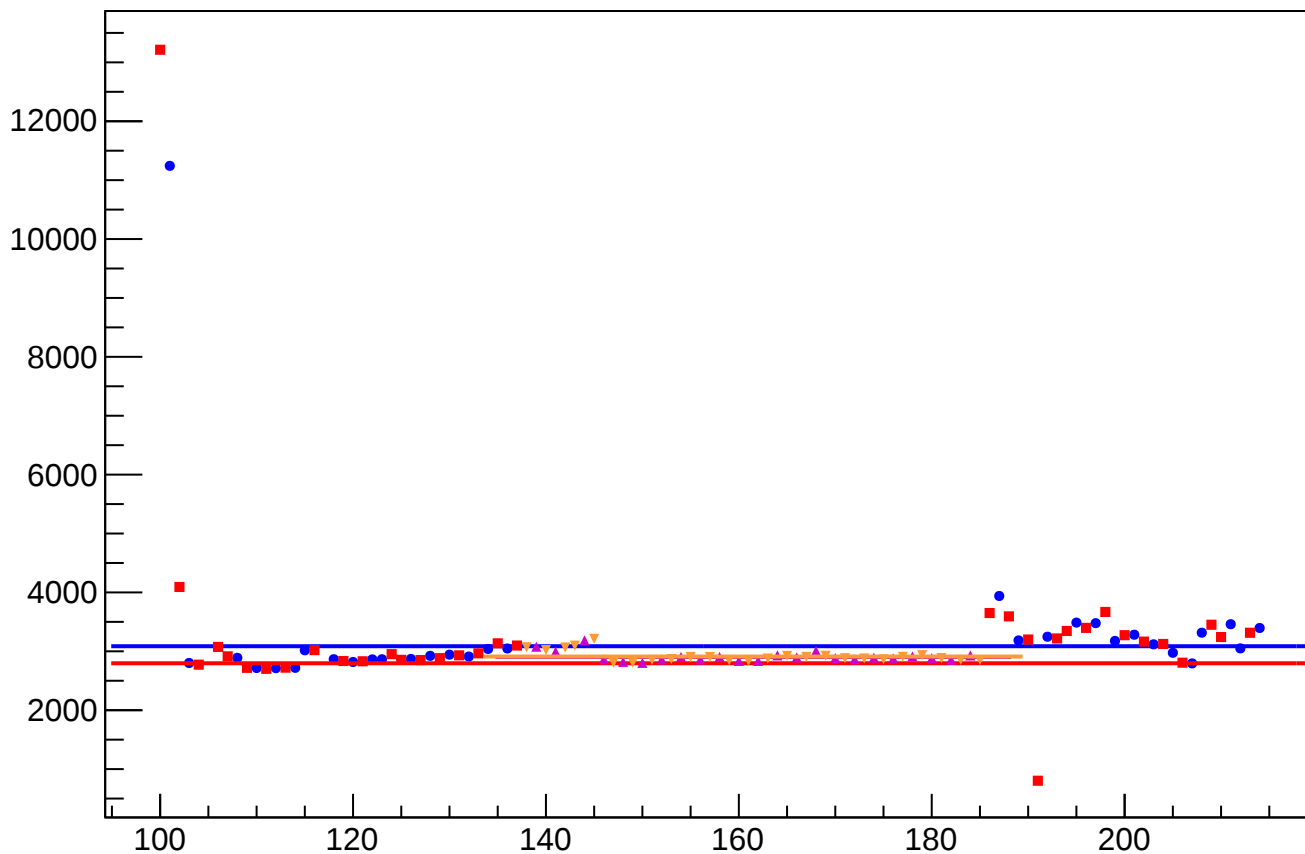
Right: 1856.940 ± 520.827 χ^2/NDF : 59.3/64

In: 2530.018 ± 515.216 χ^2/NDF : 56.8/53

Out: 2249.695 ± 490.470 χ^2/NDF : 78.8/58

All: 2382.963 ± 355.241 χ^2/NDF : 135.8/112

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3086.371+/-0.542 χ^2/NDF : 821843.6/30

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

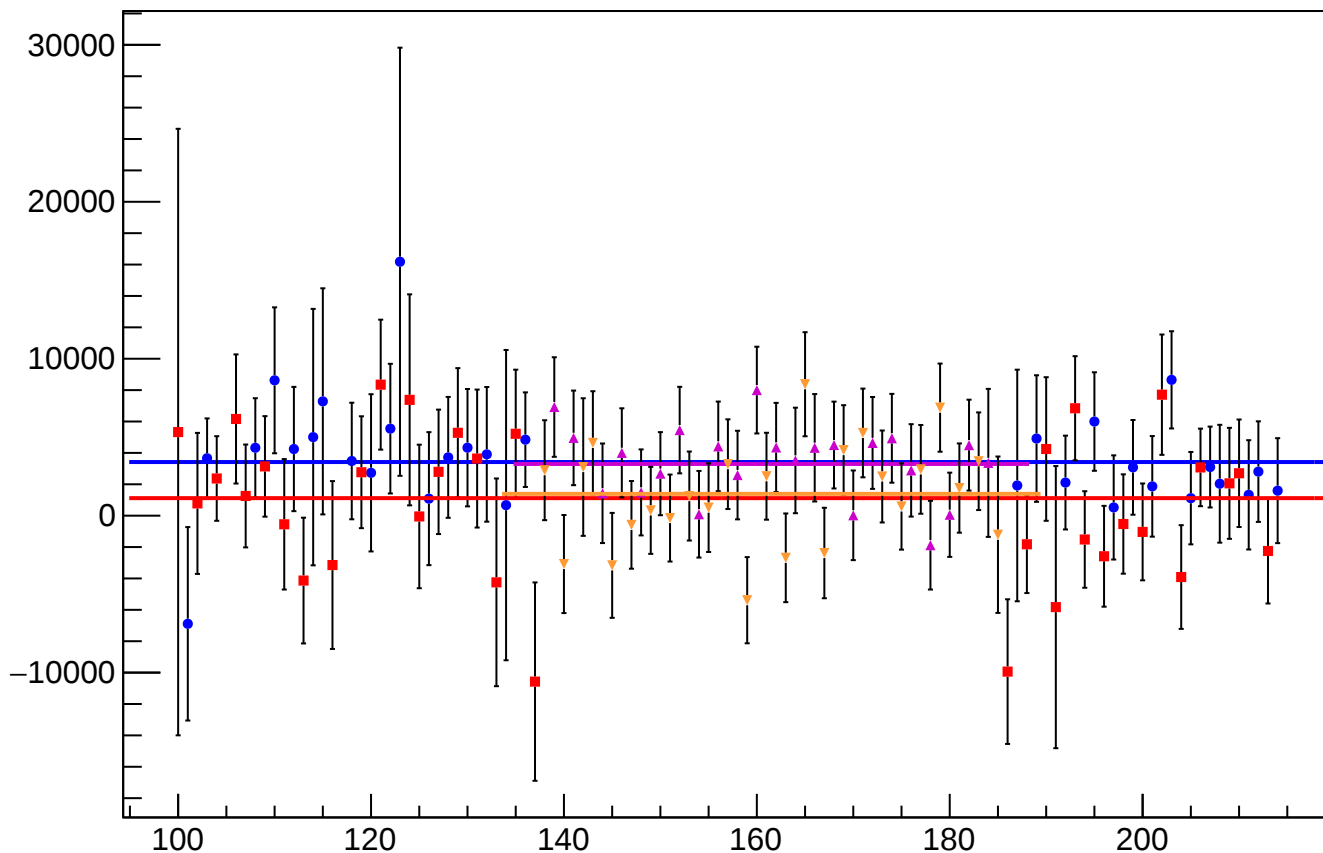
Right: 2930.558+/-0.368 χ^2/NDF : 3783699.4/64

In: 2986.054+/-0.364 χ^2/NDF : 913146.5/53

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

All: 2918.182+/-0.251 χ^2/NDF : 3851423.1/111

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3417.374 $\pm$ 663.199 χ^2 /NDF: 12.7/30

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

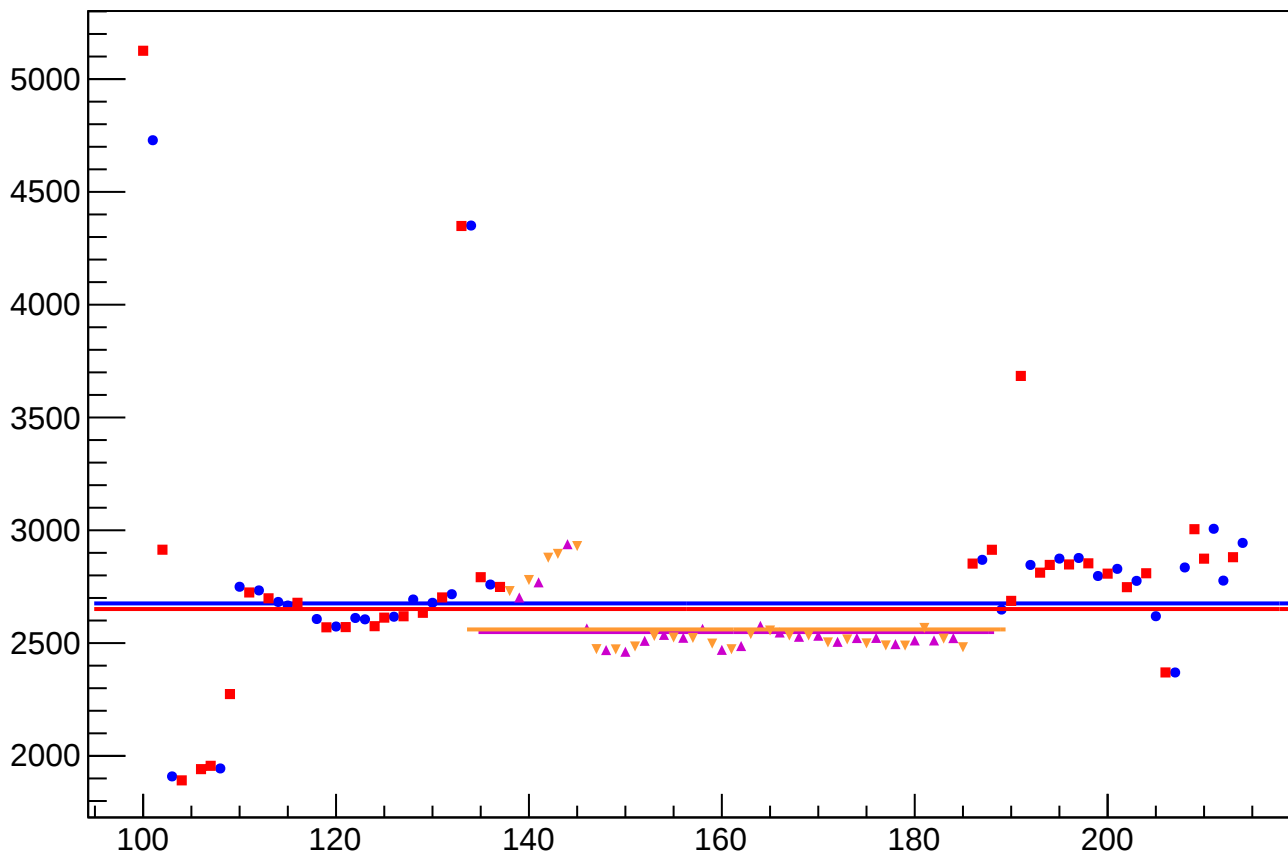
Right: 2242.930 $\pm$ 464.018 χ^2 /NDF: 55.1/64

In: 3351.280 $\pm$ 448.963 χ^2 /NDF:27.6/53

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

All: 2285.546 $\pm$ 314.002 χ^2 /NDF: 104.1/112

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2675.844+/-0.469 χ^2/NDF : 673139.7/30

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

Right Out: 2650.943+/-0.459 χ^2/NDF : 661838.5/33

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

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

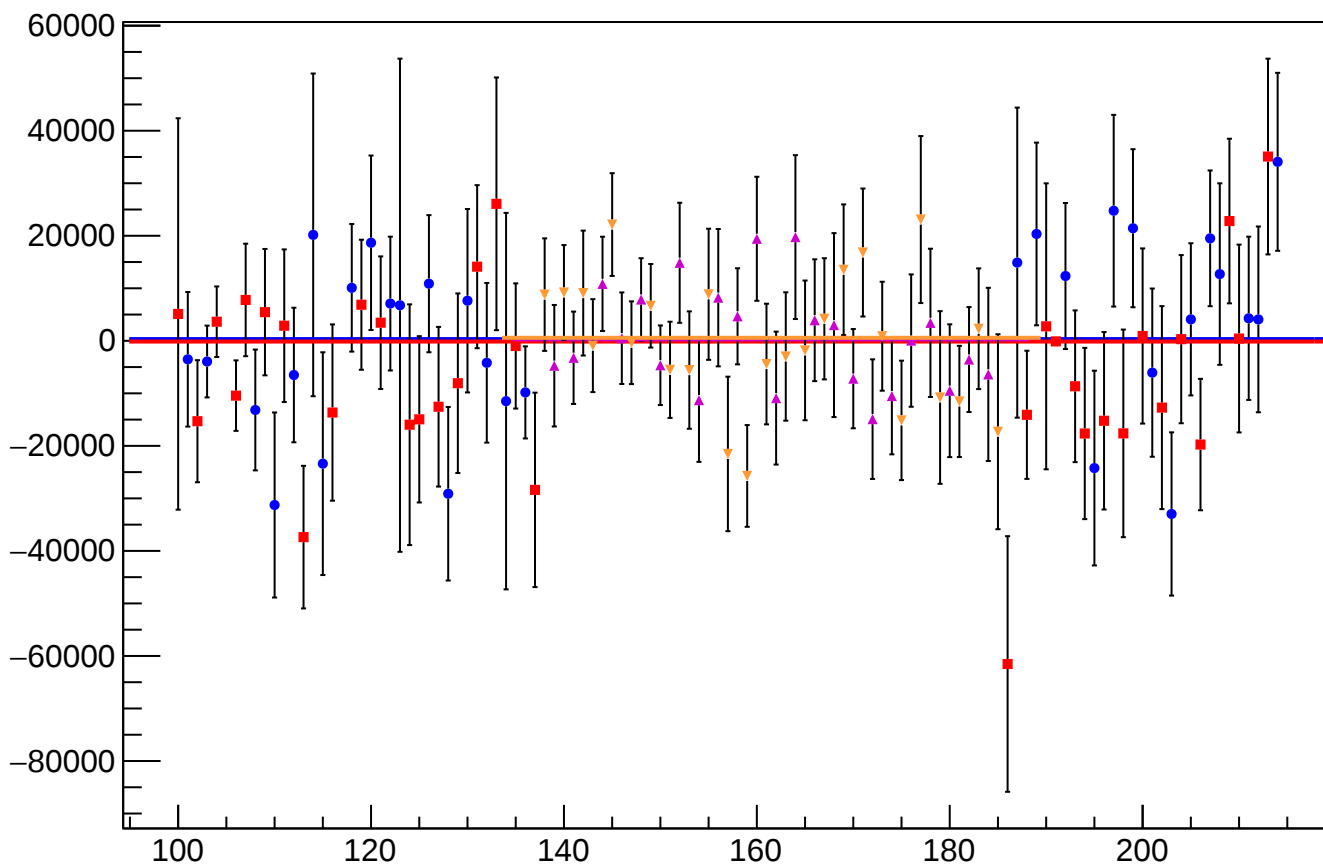
Right: 2663.133+/-0.328 χ^2/NDF : 1336417.5/64

In: 2607.060+/-0.317 χ^2/NDF : 768120.3/53

Out: 2601.902+/-0.311 χ^2/NDF : 769633.4/58

All: 2604.425+/-0.222 χ^2/NDF : 1537888.5/111

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: 328.801+/-2594.781 χ^2/NDF : 34.2/30

Left Out: 572.477+/-2184.376 χ^2/NDF : 28.2/24

Right Out: -138.293+/-194.905 χ^2/NDF : 39.8/33

Left In: 275.116+/-2242.836 χ^2/NDF : 15.7/22

Left: 427.723+/-1564.847 χ^2/NDF : 43.9/47

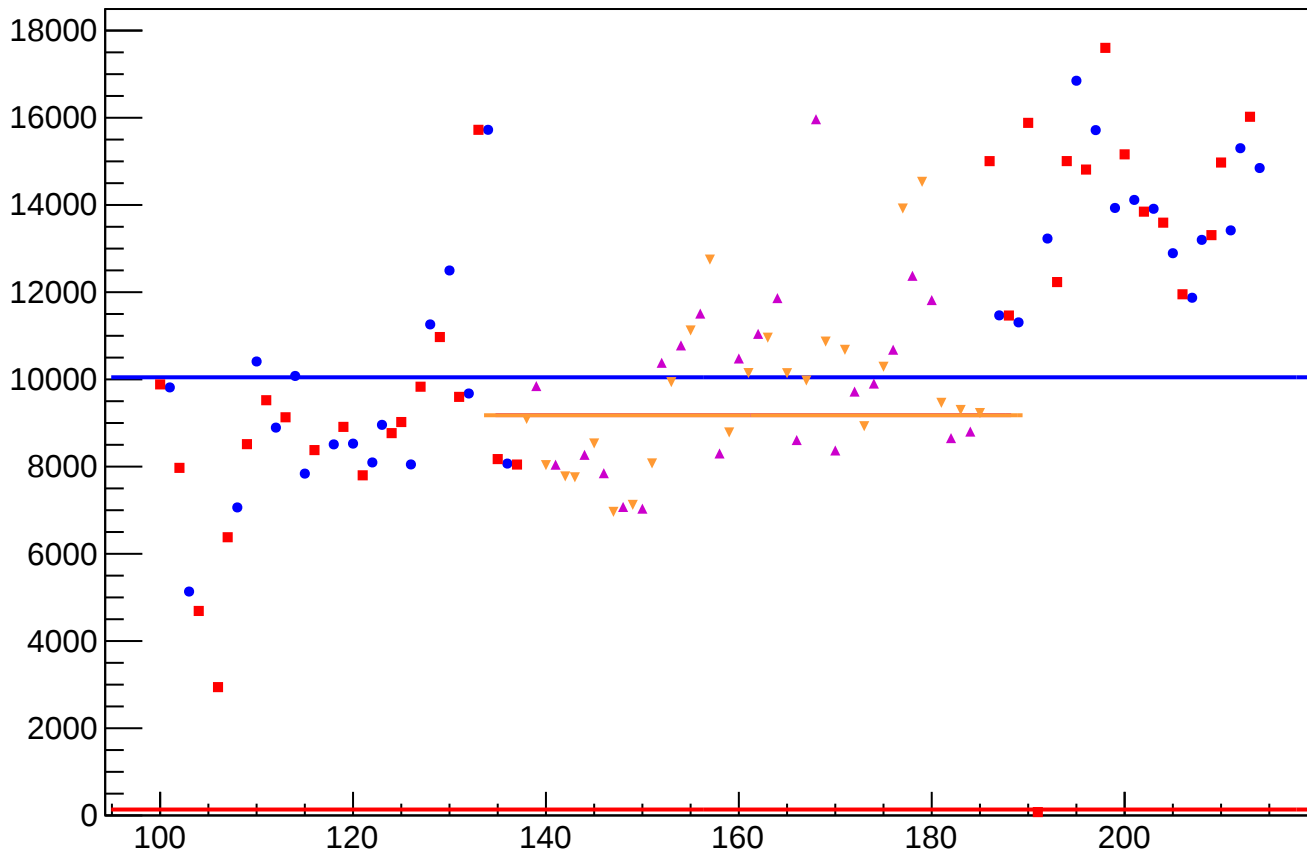
Right: -135.672+/-194.358 χ^2/NDF : 74.0/64

In: 298.074+/-1696.819 χ^2/NDF : 49.9/53

Out: -132.679+/-194.134 χ^2/NDF : 68.1/58

All: -127.113+/-192.876 χ^2/NDF : 118.0/112

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 10048.303 $\pm$ 1.835

χ^2 /NDF: 3137637.0/30

Left: 9179.424 $\pm$ 1.107

χ^2 /NDF: 2412668.1/47

Left Out: 9177.688 $\pm$ 1.545

χ^2 /NDF: 1176195.8/24

Right: 191.649 $\pm$ 0.137

χ^2 /NDF: 64985446.8/64

Right Out: 136.036 $\pm$ 0.138

χ^2 /NDF: 32825558.1/33

In: 9552.031 $\pm$ 1.200

χ^2 /NDF: 4501924.5/53

Out: 207.452 $\pm$ 0.137

χ^2 /NDF: 67997672.8/58

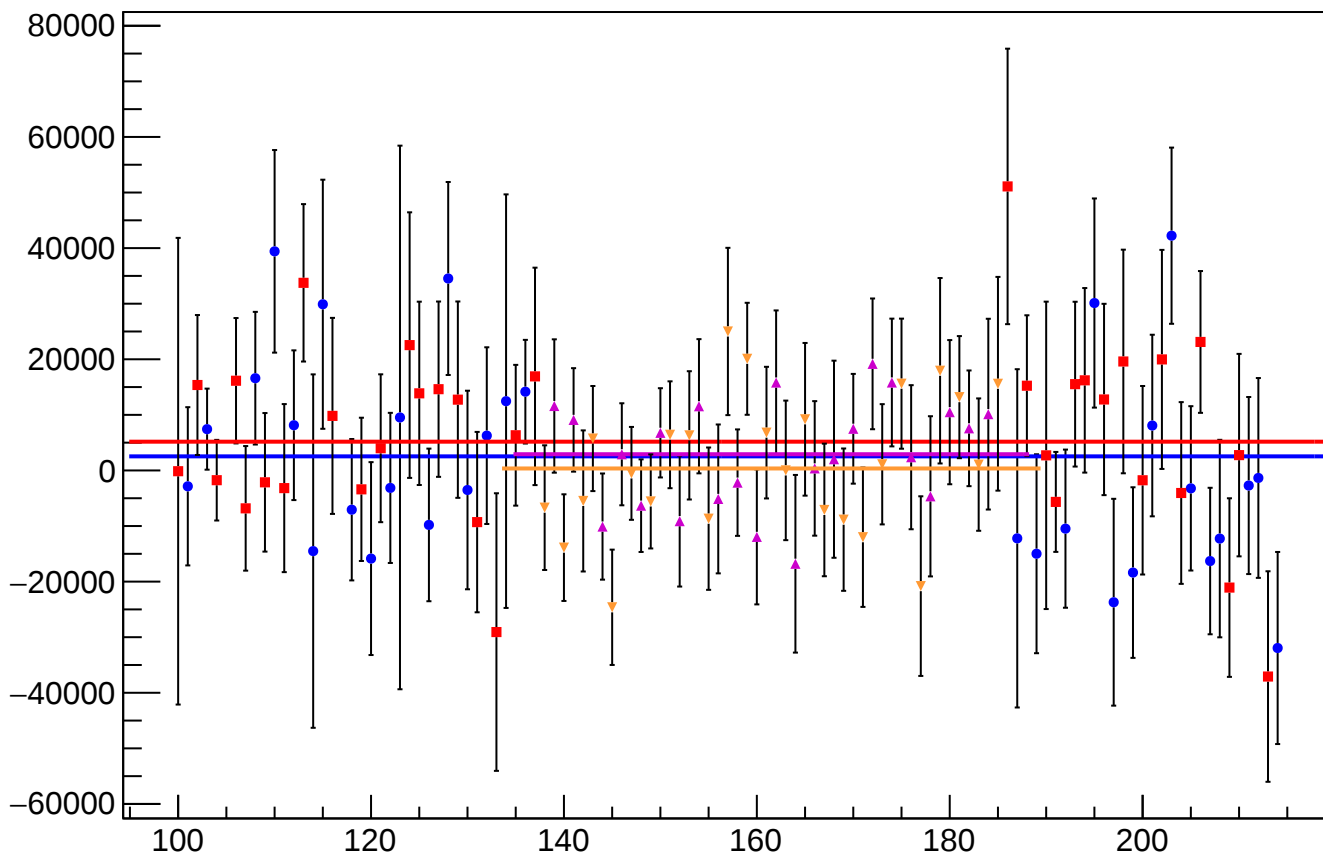
Left In: 9181.254 $\pm$ 1.586

χ^2 /NDF: 1236469.7/22

All: 328.191 $\pm$ 0.136

χ^2 /NDF: 132372540.8/1

asym_atr2_mean vs Slug, Sign Corrected



Right In: 2534.351 $\pm$ 2708.324 χ^2 /NDF: 37.4/30

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

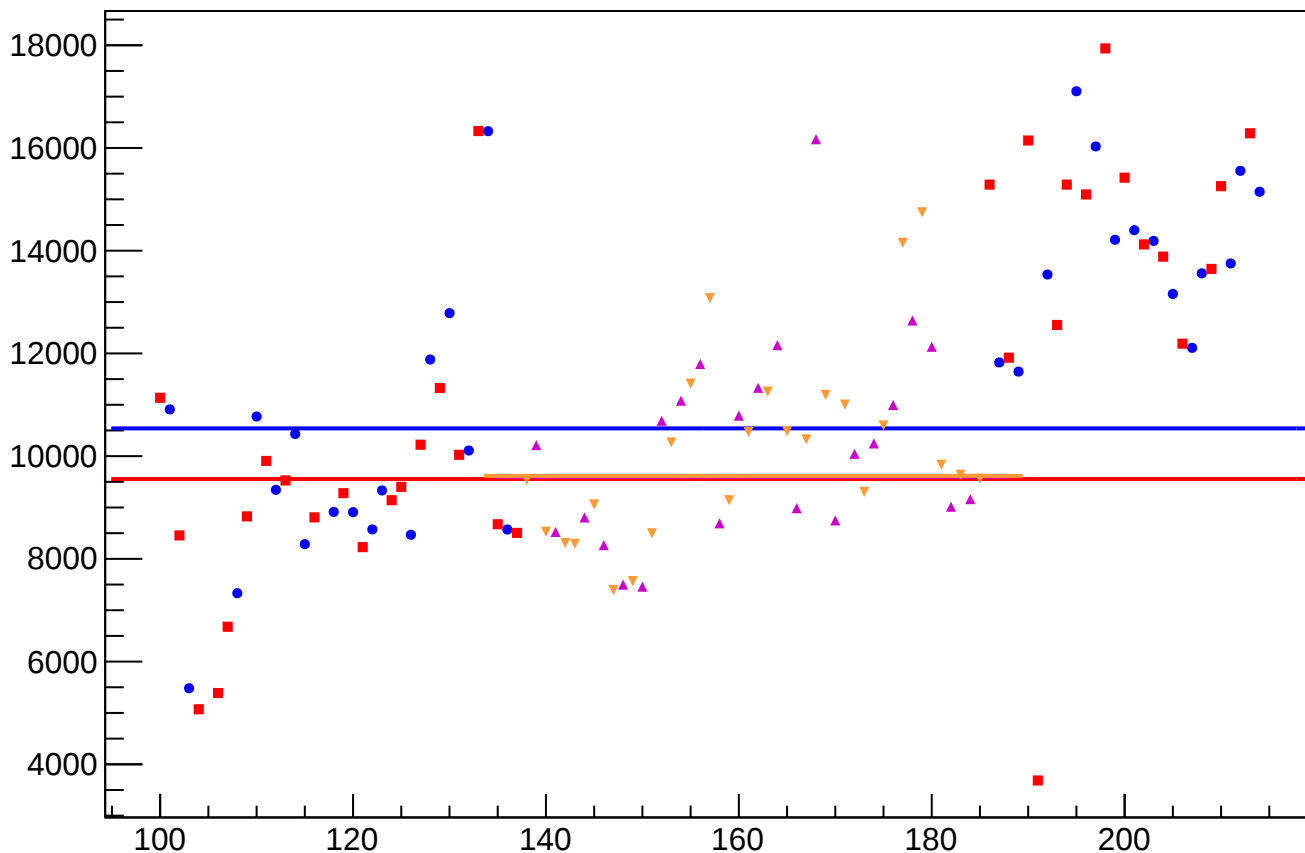
Right: 3962.427 $\pm$ 1835.513 χ^2 /NDF: 69.0/64

In: 2754.345 $\pm$ 1769.978 χ^2 /NDF:52.3/53

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

All: 2646.915 $\pm$ 1220.087 χ^2 /NDF: 111.7/112

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10540.423+/-1.915 χ^2/NDF : 2845217.2/30

Left Out: 9616.245+/-1.613 χ^2/NDF : 1011665.6/24

Right Out: 9554.714+/-1.765 χ^2/NDF : 4576371.8/33

Left In: 9598.531+/-1.654 χ^2/NDF : 1082171.6/22

Left: 9607.606+/-1.155 χ^2/NDF : 2093896.0/47

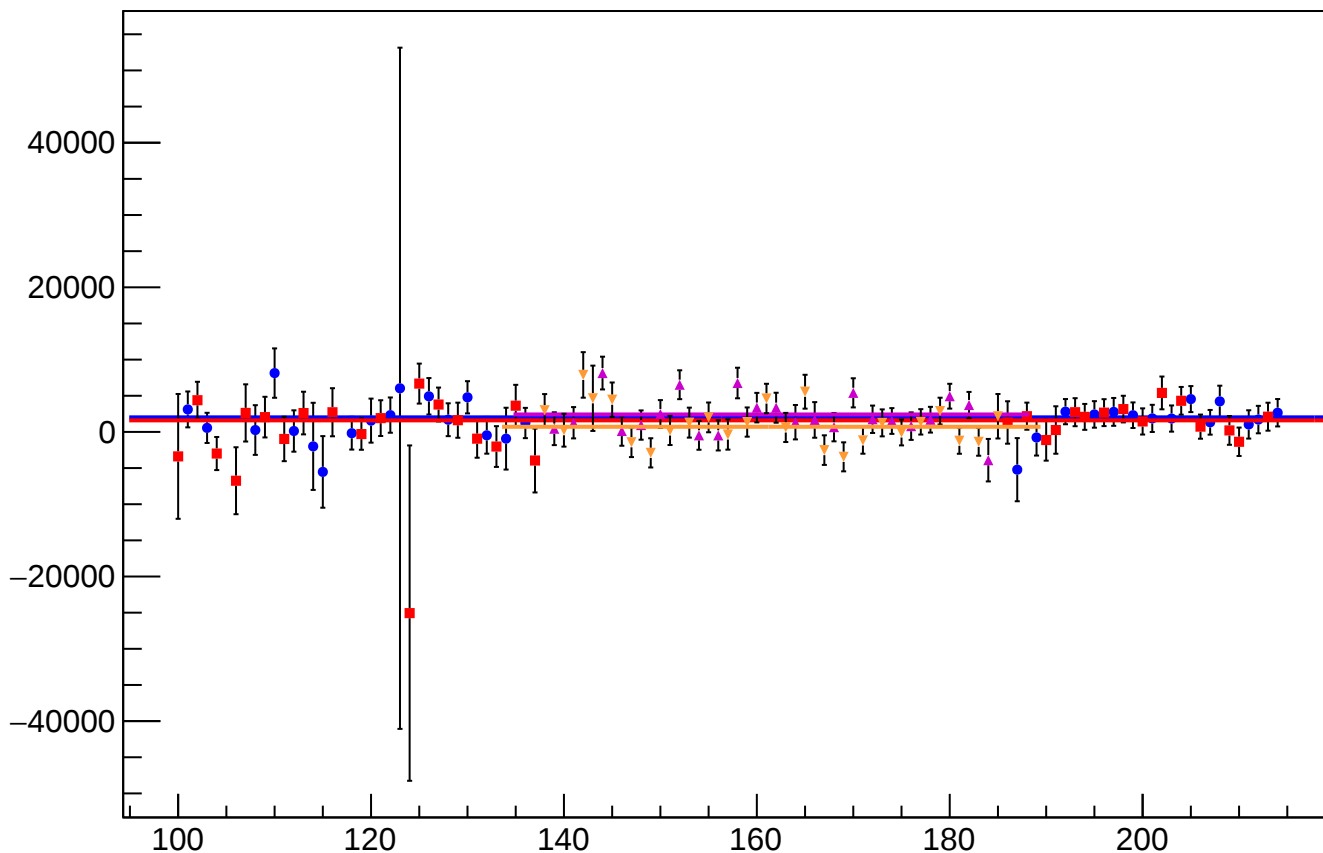
Right: 10007.453+/-1.298 χ^2/NDF : 7564834.0/64

In: 10000.817+/-1.252 χ^2/NDF : 4065970.5/53

Out: 9588.236+/-1.191 χ^2/NDF : 5588699.5/58

All: 9784.278+/-0.863 χ^2/NDF : 9711704.9/111

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 2013.767 $\pm$ 411.323 χ^2 /NDF: 20.8/30

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

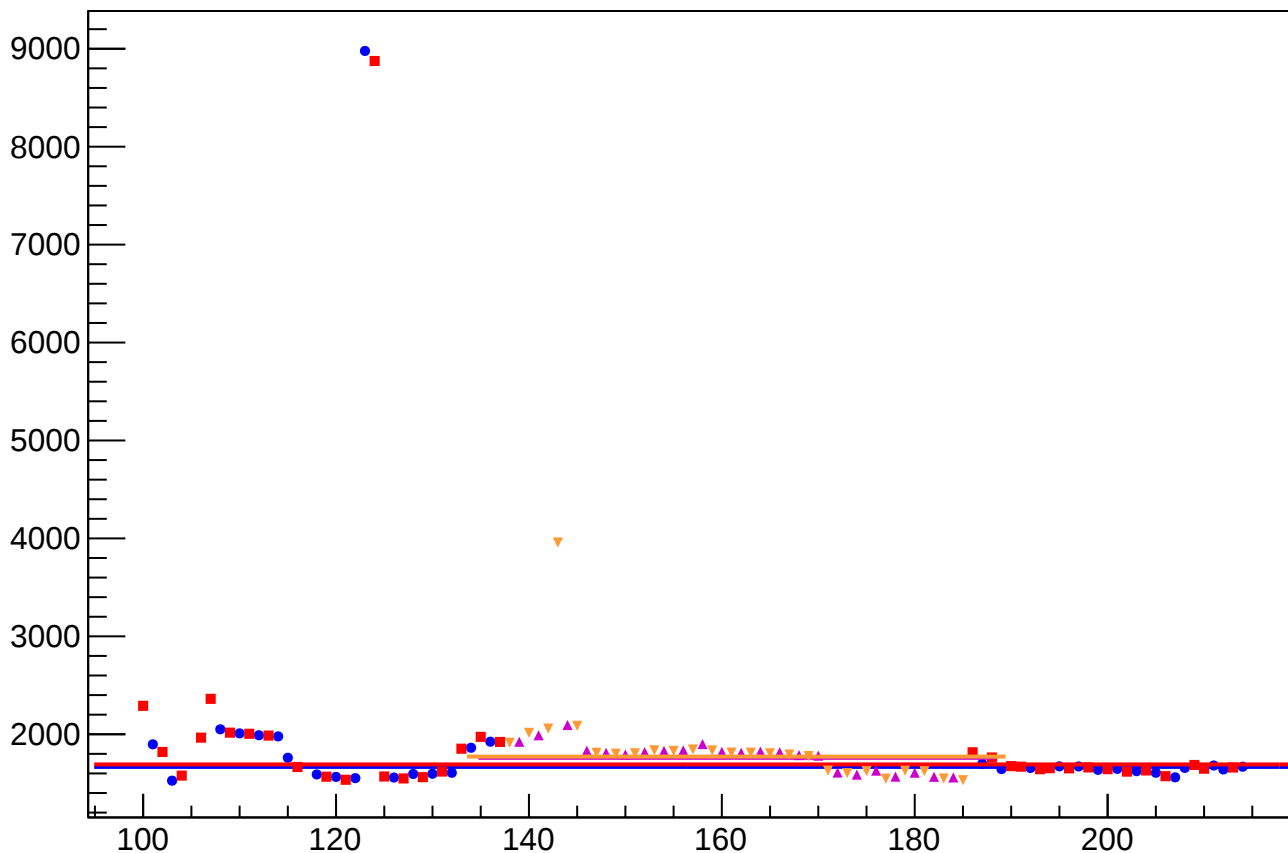
Right: 1805.832 $\pm$ 291.057 χ^2 /NDF: 52.7/64

In: 2208.424 $\pm$ 295.051 χ^2 /NDF:55.3/53

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

All: 1680.554 $\pm$ 207.967 χ^2 /NDF: 130.1/112

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1666.811+/-0.291 χ^2/NDF : 216215.4/30

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

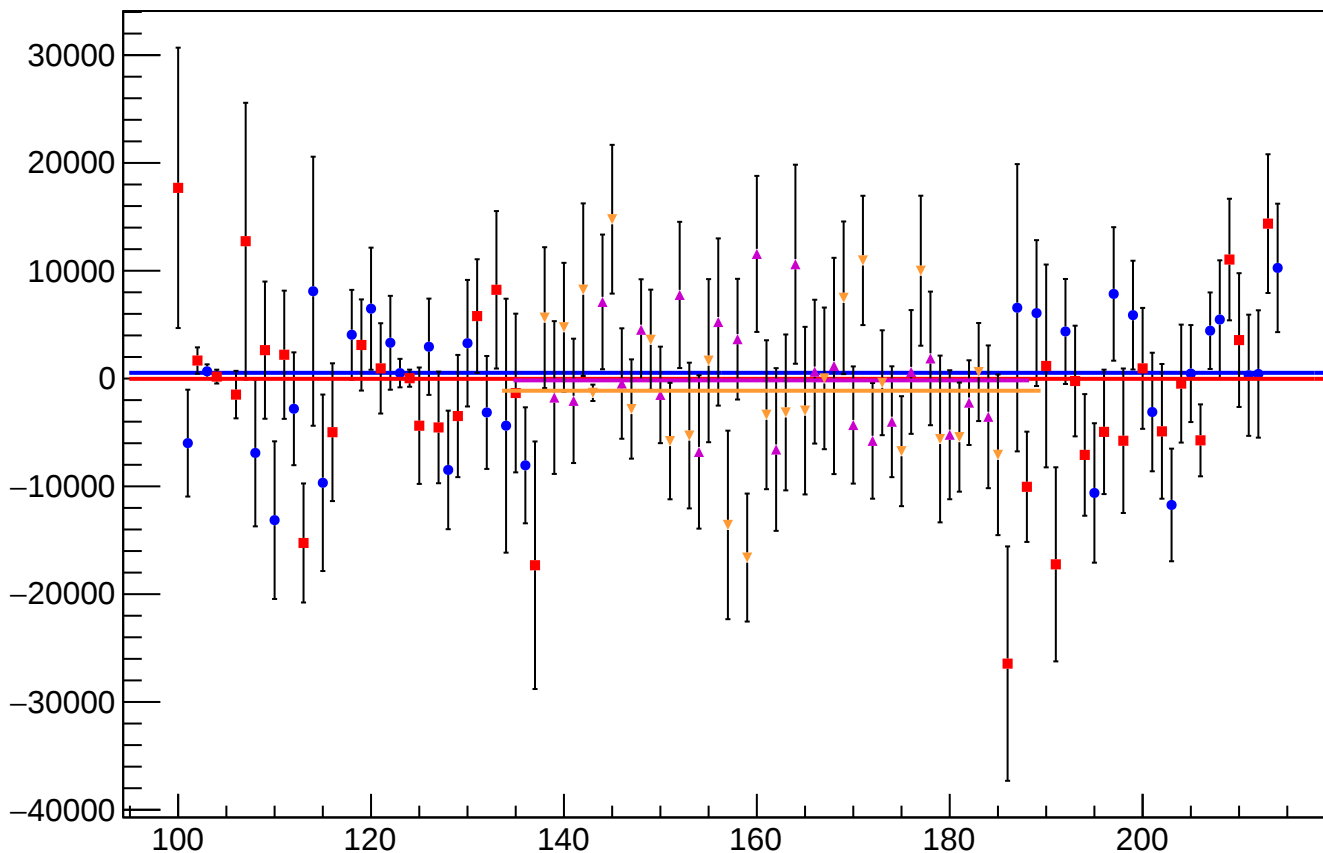
Right: 1679.347+/-0.206 χ^2/NDF : 658079.9/64

In: 1711.855+/-0.209 χ^2/NDF : 480514.9/53

Out: 1731.365+/-0.207 χ^2/NDF : 1178064.8/58

All: 1721.681+/-0.147 χ^2/NDF : 1662983.7/11

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 530.954 $\pm$ 506.366 χ^2 /NDF: 35.1/30

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

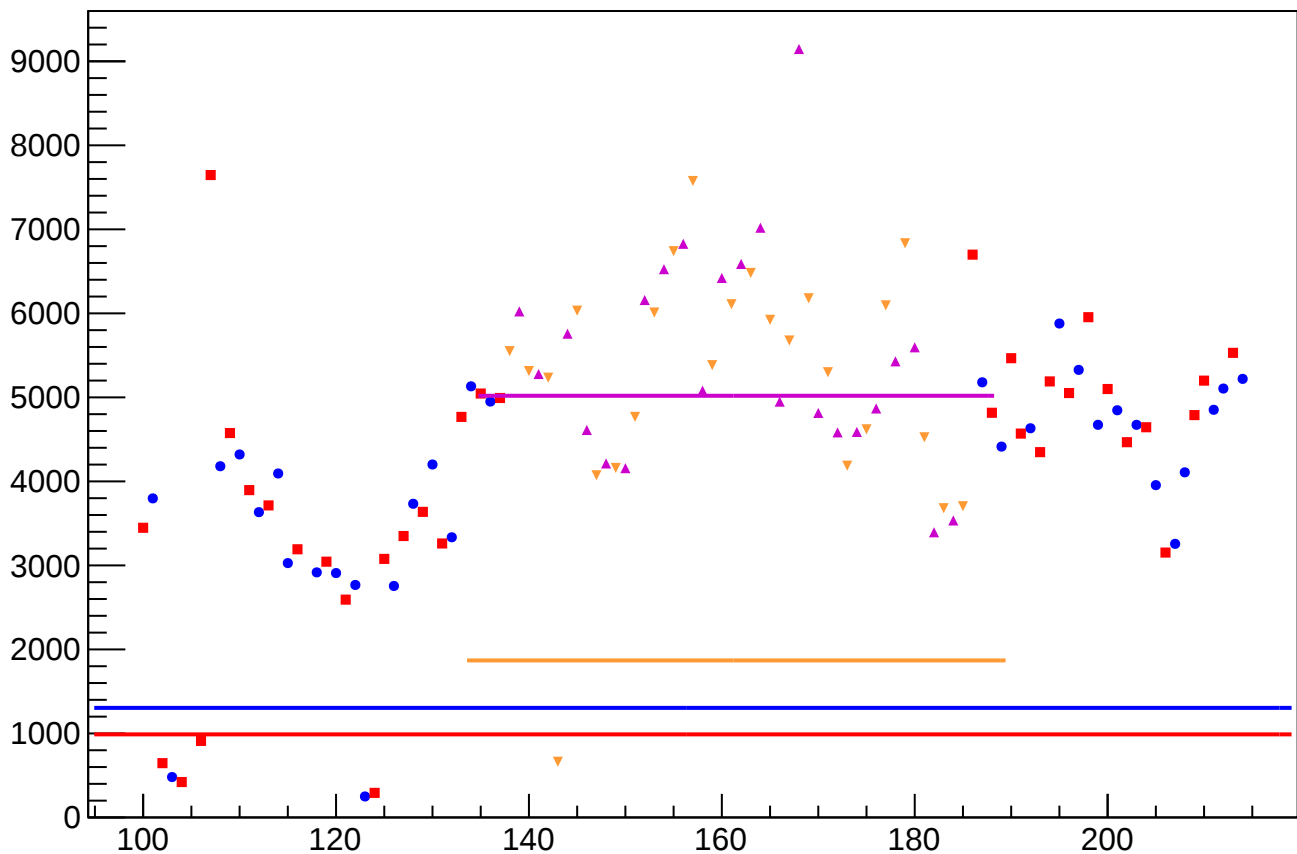
Right: 198.243 $\pm$ 321.555 χ^2 /NDF: 86.0/64

In: 429.974 $\pm$ 468.372 χ^2 /NDF:49.5/53

Out: -349.131 $\pm$ 350.161 χ^2 /NDF:83.8/58

All: -69.796 $\pm$ 280.450 χ^2 /NDF: 135.0/112

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1304.439 $\pm$ 0.358 χ^2/NDF : 19725887.8/30

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

Right Out: 988.880 $\pm$ 0.294 χ^2/NDF : 22139677.9/33

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

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

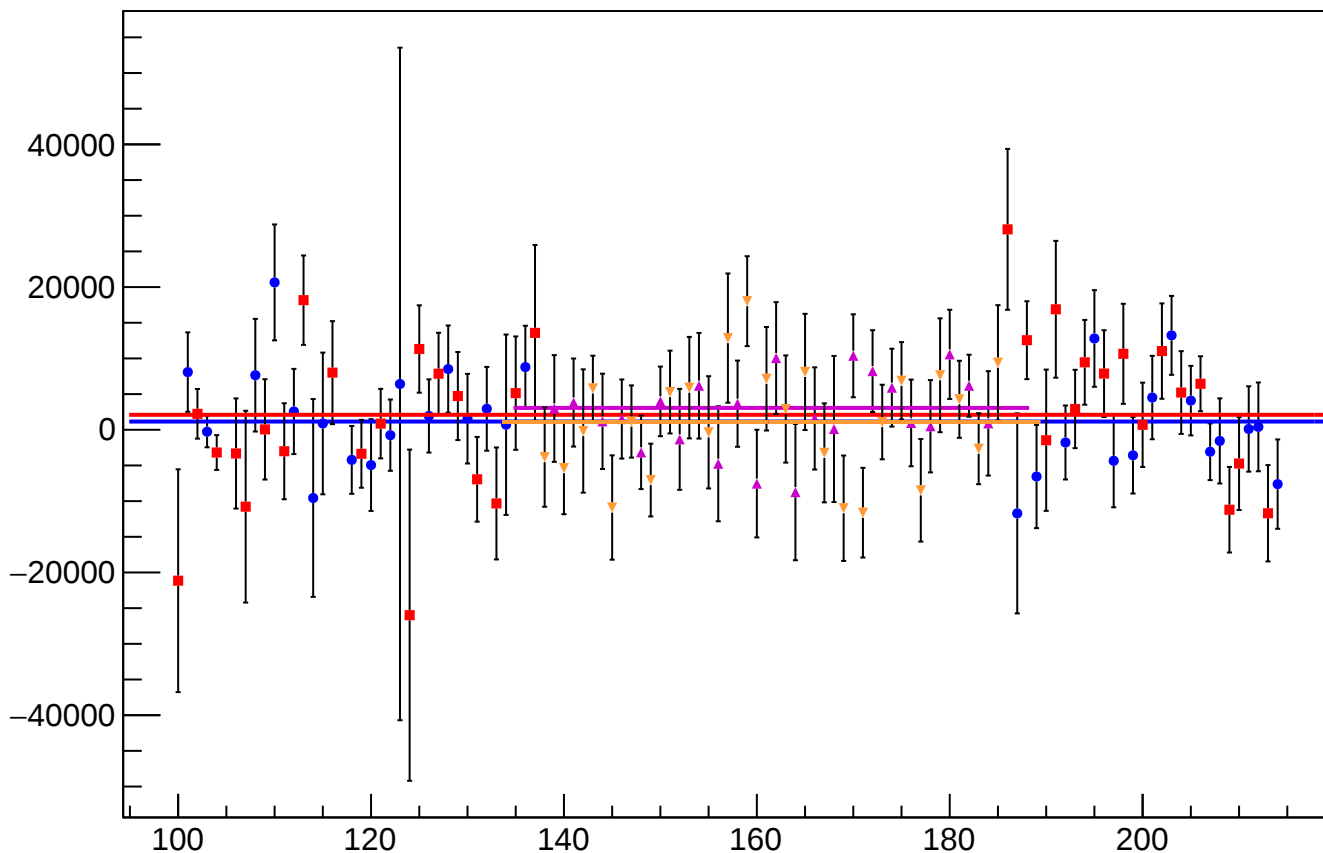
Right: 1116.132 $\pm$ 0.227 χ^2/NDF : 42329064.1/64

In: 1840.965 $\pm$ 0.331 χ^2/NDF : 36840742.7/53

Out: 1246.190 $\pm$ 0.248 χ^2/NDF : 44606025.9/58

All: 1459.436 $\pm$ 0.198 χ^2/NDF : 83515620.9/112

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1153.937 $\pm$ 1001.891 χ^2 /NDF: 30.3/30

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

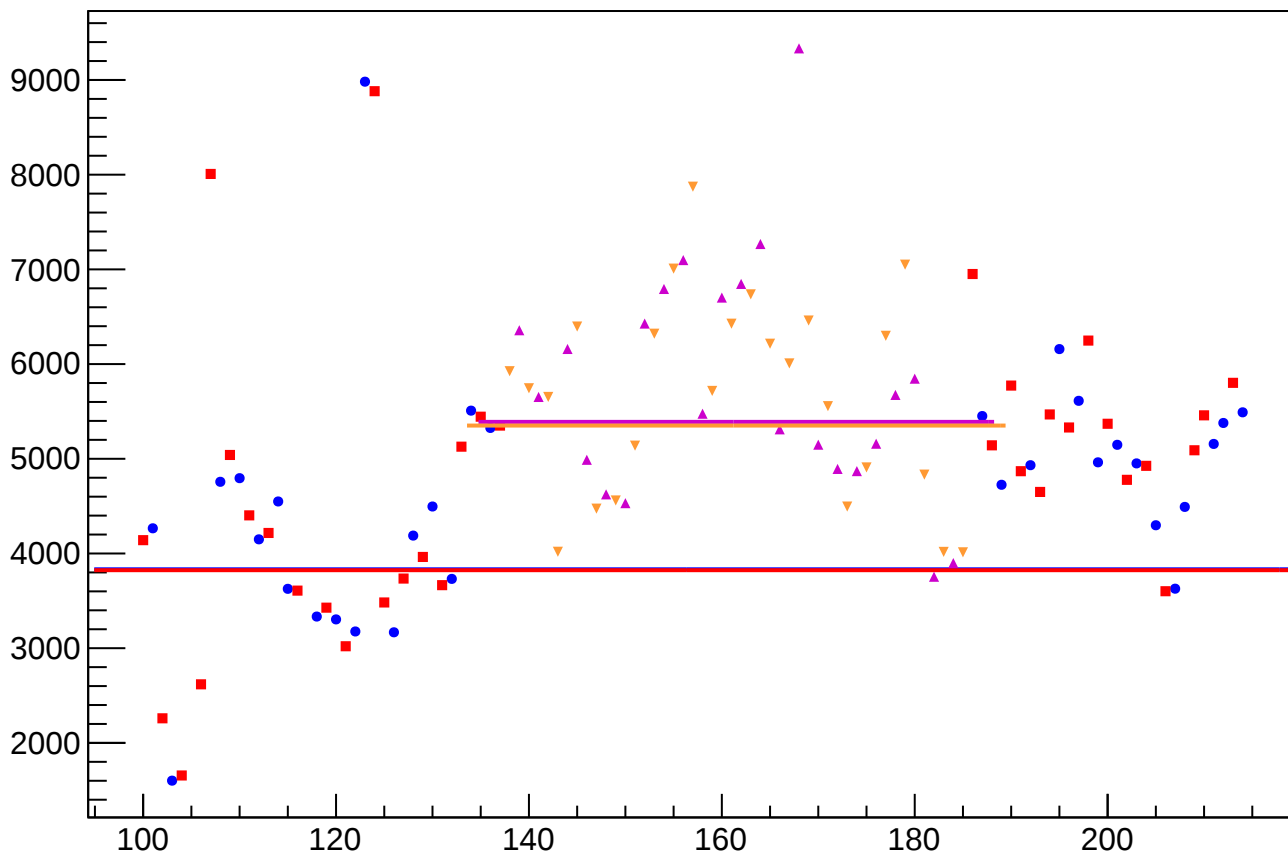
Right: 1626.798 $\pm$ 708.612 χ^2 /NDF: 88.1/64

In: 1853.614 $\pm$ 797.645 χ^2 /NDF:44.2/53

Out: 1715.215 $\pm$ 787.558 χ^2 /NDF:89.8/58

All: 1783.534 $\pm$ 560.420 χ^2 /NDF: 134.0/112

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3832.840 $\pm$ 0.708 χ^2 /NDF: 3697800.5/30

Left Out: 5350.804 $\pm$ 0.900 χ^2 /NDF: 1241497.9/24

Right Out: 3823.701 $\pm$ 0.702 χ^2 /NDF: 4279717.5/33

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

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

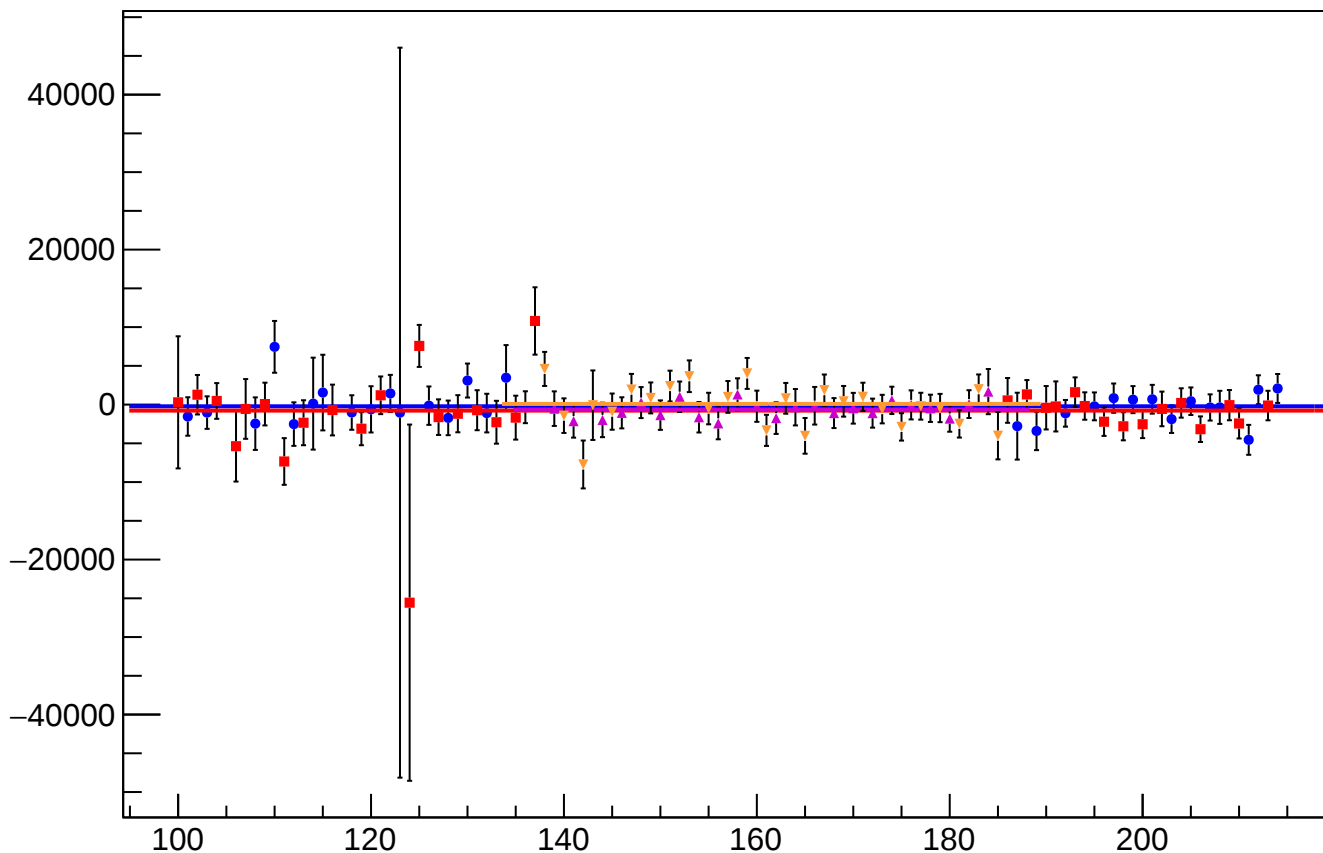
Right: 3828.232 $\pm$ 0.499 χ^2 /NDF: 7977601.9/64

In: 4402.911 $\pm$ 0.564 χ^2 /NDF: 6776045.5/53

Out: 4401.671 $\pm$ 0.554 χ^2 /NDF: 7309727.4/58

All: 4402.280 $\pm$ 0.395 χ^2 /NDF: 14085775.4/111

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -219.075 ± 405.584 χ^2/NDF : 23.1/30

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

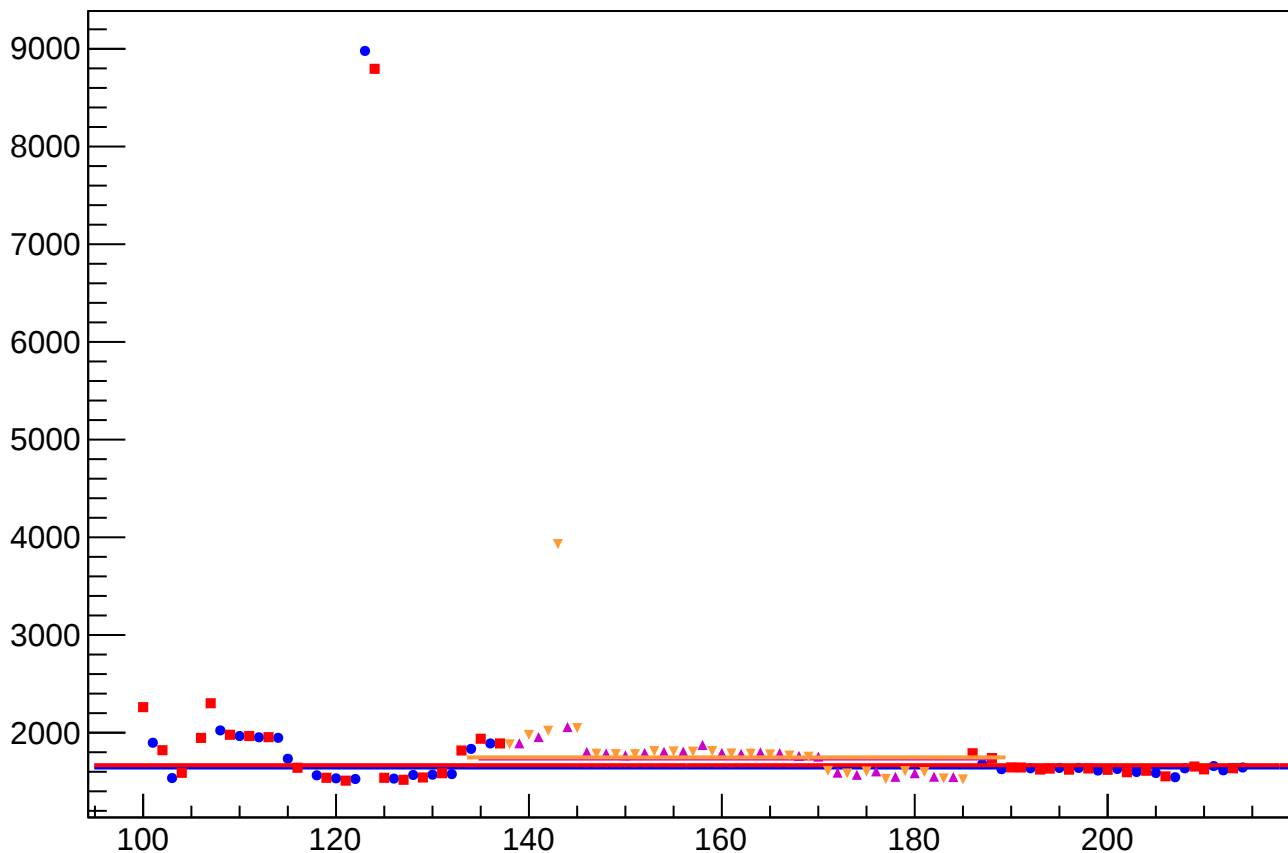
Right: -495.485 ± 286.911 χ^2/NDF : 60.7/64

In: -423.486 ± 290.962 χ^2/NDF : 29.8/53

Out: -348.961 ± 288.993 χ^2/NDF : 74.9/58

All: -385.970 ± 205.041 χ^2/NDF : 104.8/112

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1643.618 $\pm$ 0.287 χ^2 /NDF: 213568.5/30

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

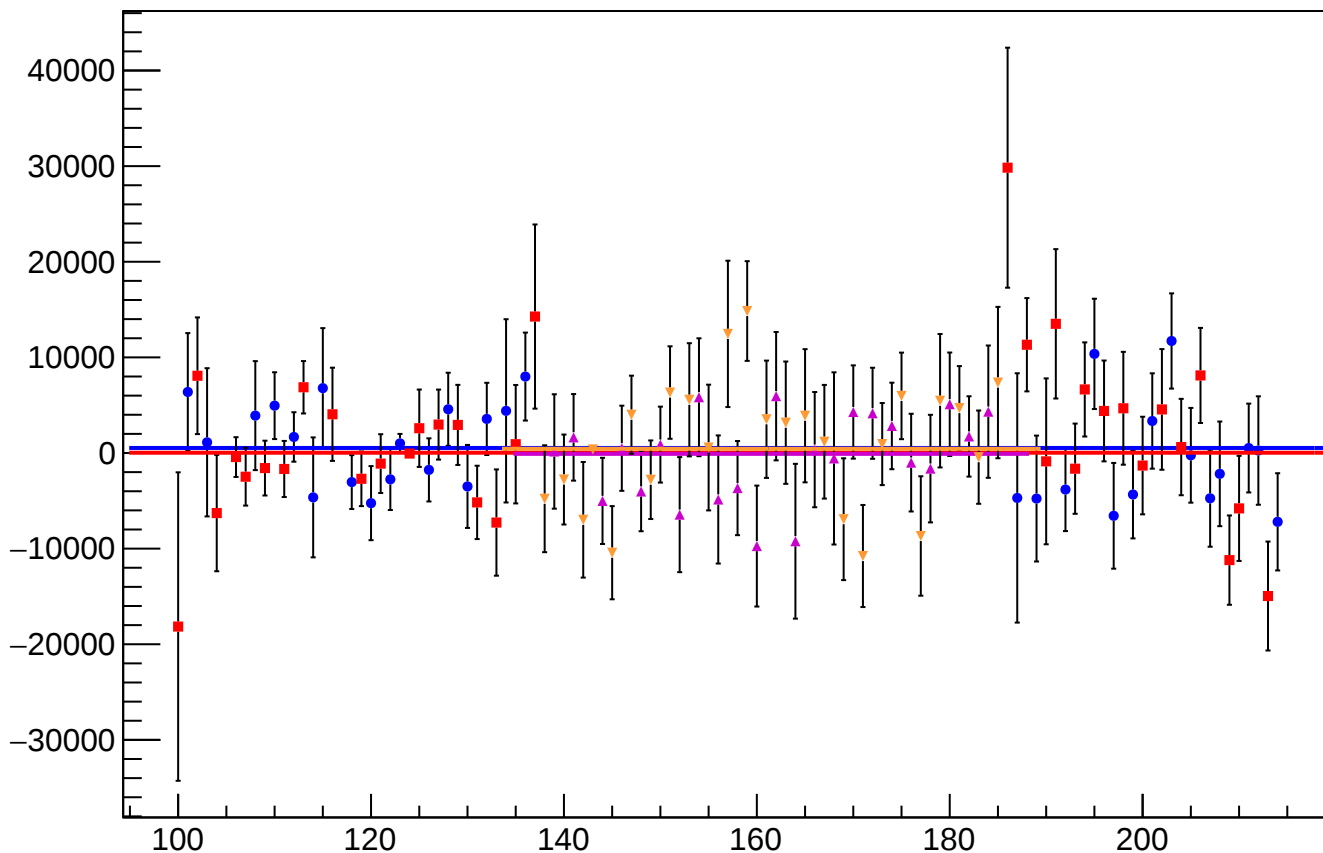
Right: 1655.574 $\pm$ 0.203 χ^2 /NDF: 650952.6/64

In: 1688.233 $\pm$ 0.206 χ^2 /NDF: 470197.4/53

Out: 1706.803 $\pm$ 0.204 χ^2 /NDF: 1170289.4/58

All: 1697.589 $\pm$ 0.145 χ^2 /NDF: 1644591.6/11

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 528.125 $\pm$ 632.013 χ^2 /NDF: 32.3/30

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

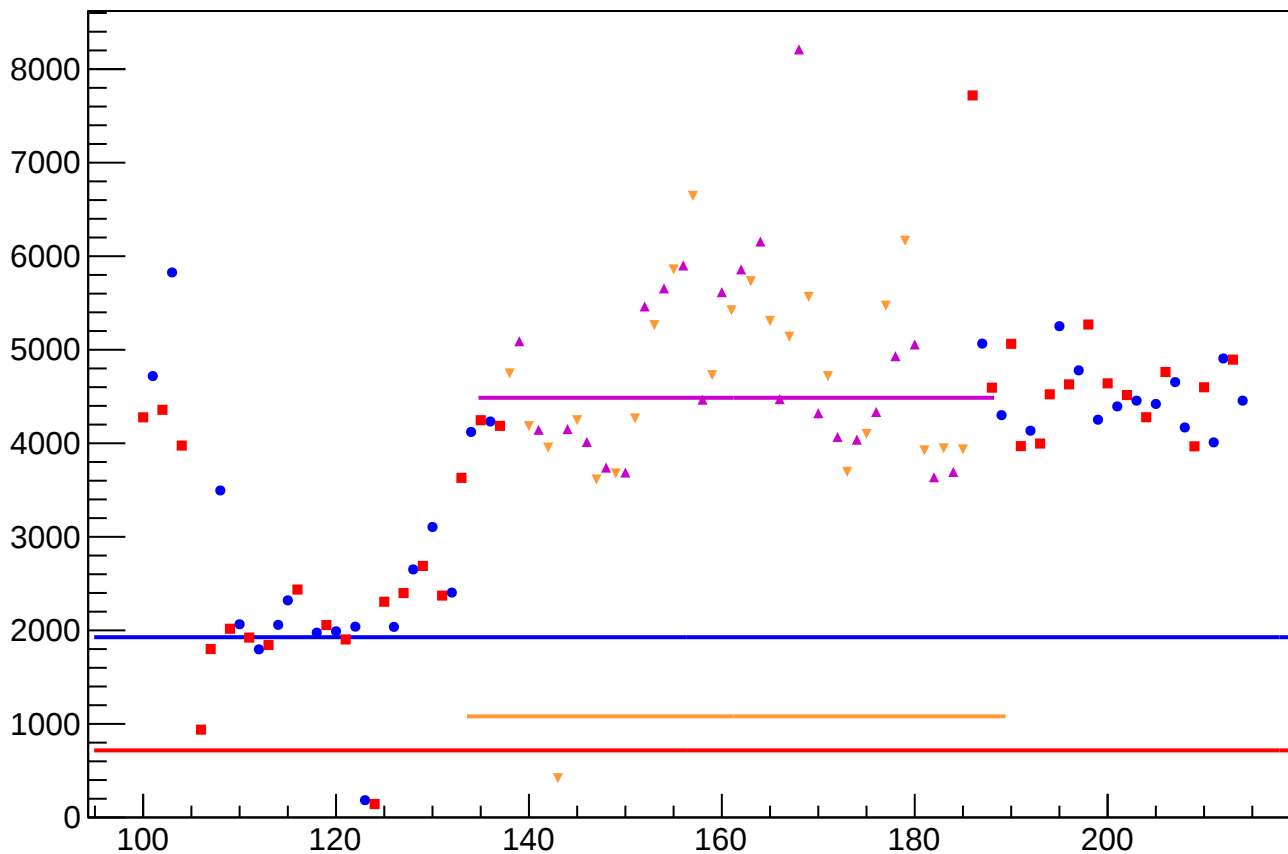
Right: 144.986 $\pm$ 304.032 χ^2 /NDF: 87.8/64

In: 374.000 $\pm$ 547.359 χ^2 /NDF:45.9/53

Out: 187.563 $\pm$ 272.445 χ^2 /NDF:89.5/58

All: 224.581 $\pm$ 243.902 χ^2 /NDF: 135.6/112

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1927.026+/-0.447

χ^2/NDF : 14588037.8/30

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right Out: 716.720+/-0.245

χ^2/NDF : 25457778.5/33

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289

χ^2/NDF : 42294704.7/47

Right: 996.799+/-0.215

χ^2/NDF : 45682995.5/64

In: 2566.772+/-0.387

χ^2/NDF : 23968399.1/53

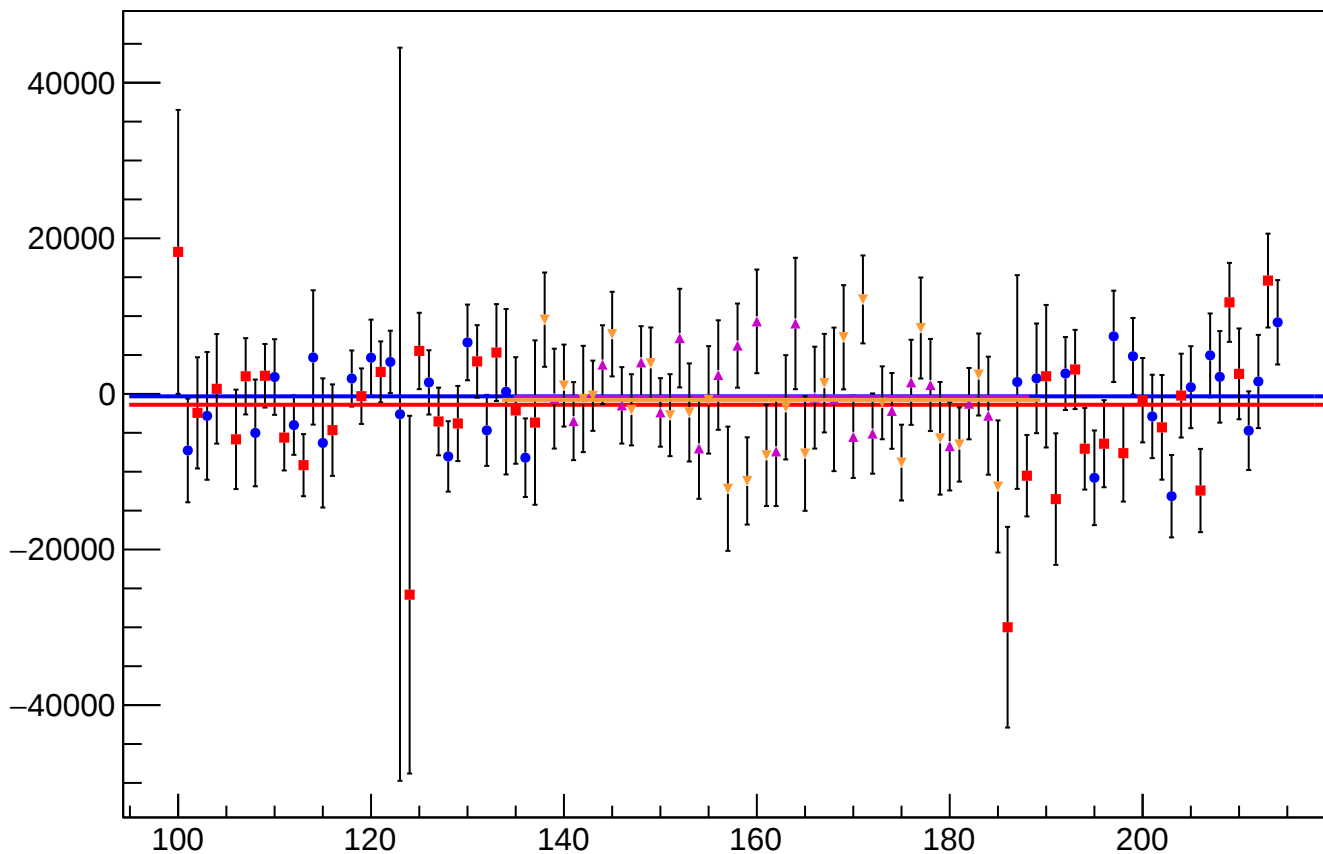
Out: 856.174+/-0.193

χ^2/NDF : 50758828.6/58

All: 1195.826+/-0.172

χ^2/NDF : 90382242.8/100

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -312.658 ± 969.716 $\chi^2/\text{NDF}: 32.4/30$

Left Out: -766.008 ± 1147.372 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -1392.943 ± 943.463 $\chi^2/\text{NDF}: 48.3/33$

Left In: -388.944 ± 1186.300 $\chi^2/\text{NDF}: 14.2/22$

Left: -583.764 ± 824.733 $\chi^2/\text{NDF}: 44.2/47$

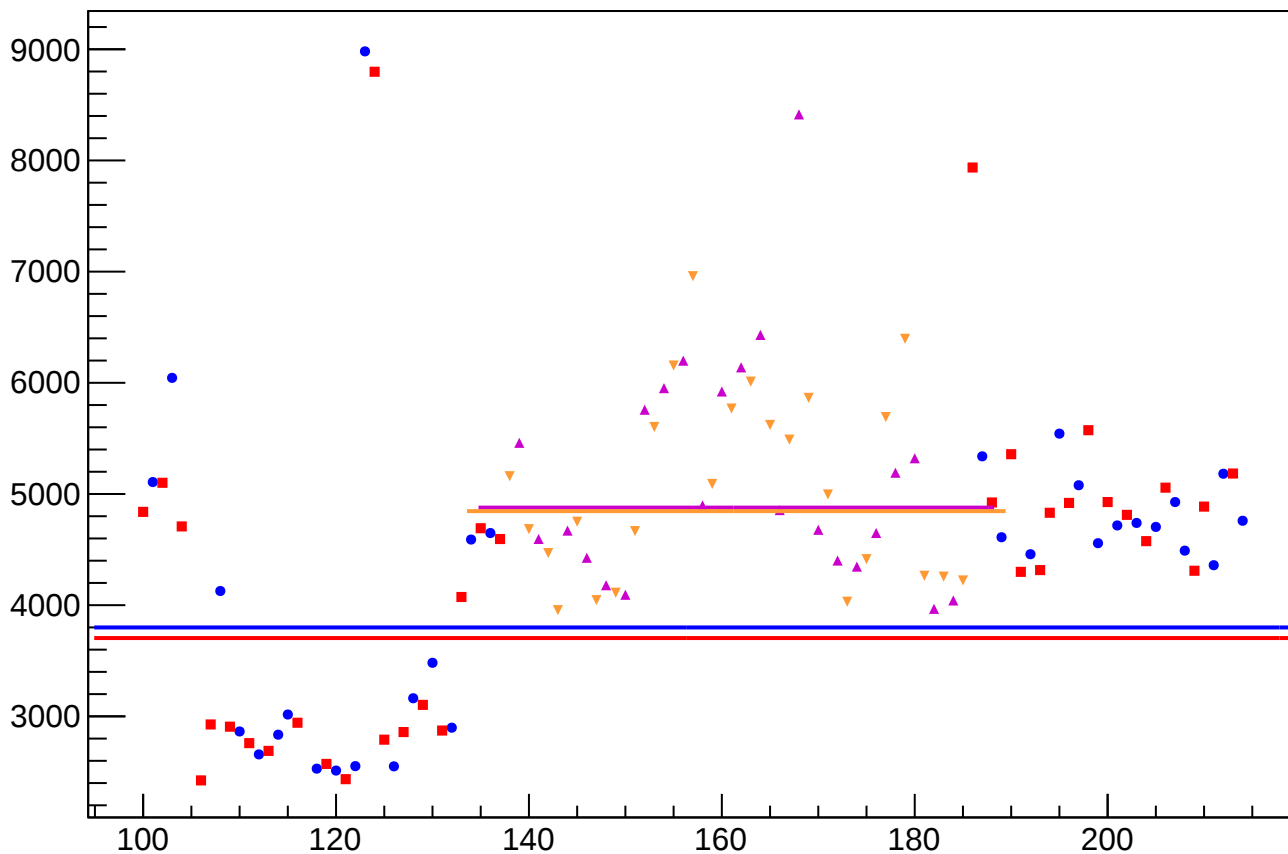
Right: -867.622 ± 676.220 $\chi^2/\text{NDF}: 81.3/64$

In: -343.214 ± 750.796 $\chi^2/\text{NDF}: 46.6/53$

Out: -1140.041 ± 728.734 $\chi^2/\text{NDF}: 78.4/58$

All: -753.507 ± 522.918 $\chi^2/\text{NDF}: 125.6/112$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3799.569+/-0.686 χ^2/NDF : 2394646.5/30

Left Out: 4845.779+/-0.811 χ^2/NDF : 909173.9/24

Right Out: 3704.298+/-0.662 χ^2/NDF : 2826265.1/33

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

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

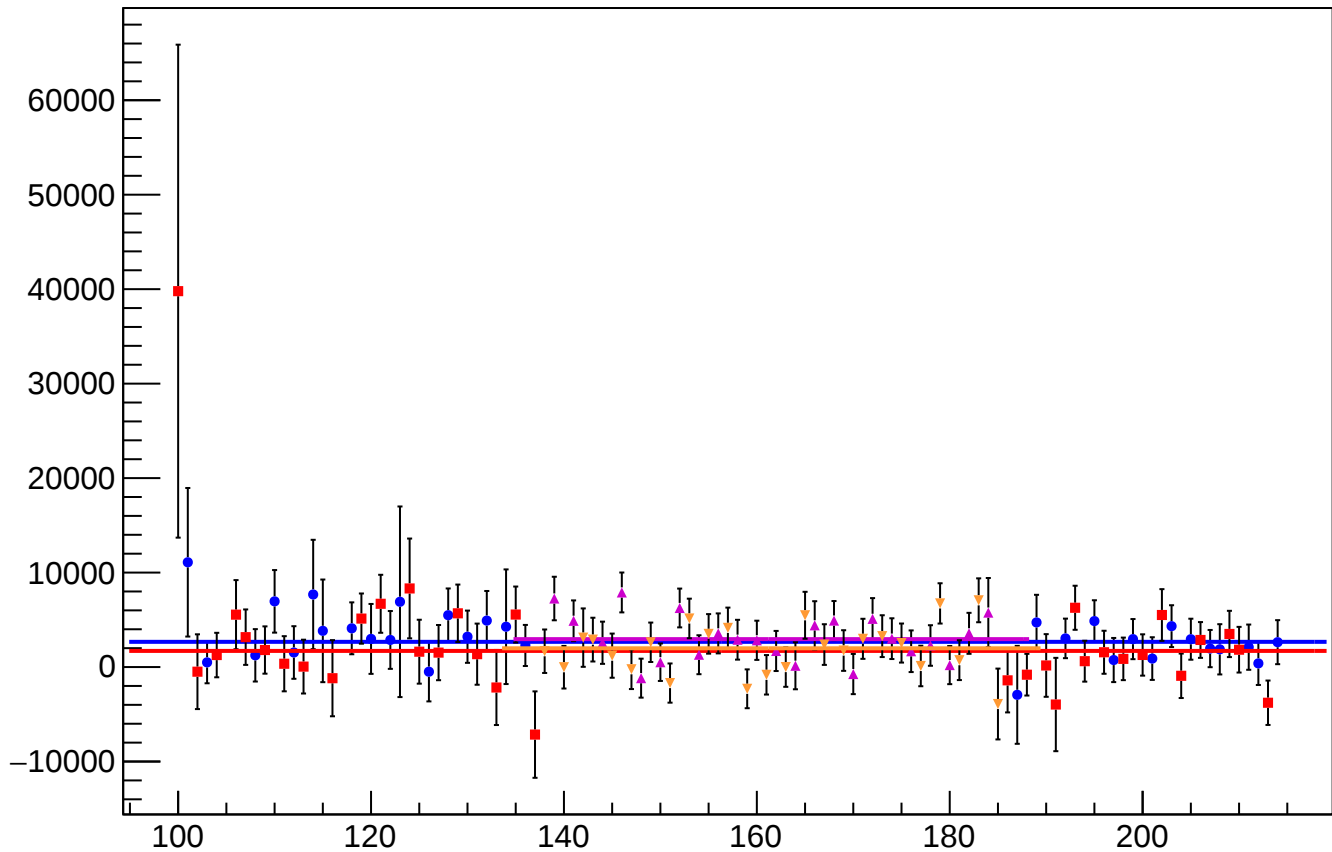
Right: 3750.250+/-0.476 χ^2/NDF : 5230905.0/64

In: 4231.313+/-0.531 χ^2/NDF : 4343058.6/53

Out: 4160.429+/-0.513 χ^2/NDF : 4923948.3/58

All: 4194.647+/-0.369 χ^2/NDF : 9276228.3/11

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2669.604 $\pm$ 487.433 χ^2 /NDF: 14.0/30

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

Right Out: 1708.868 $\pm$ 479.557 χ^2 /NDF: 36.4/33

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

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

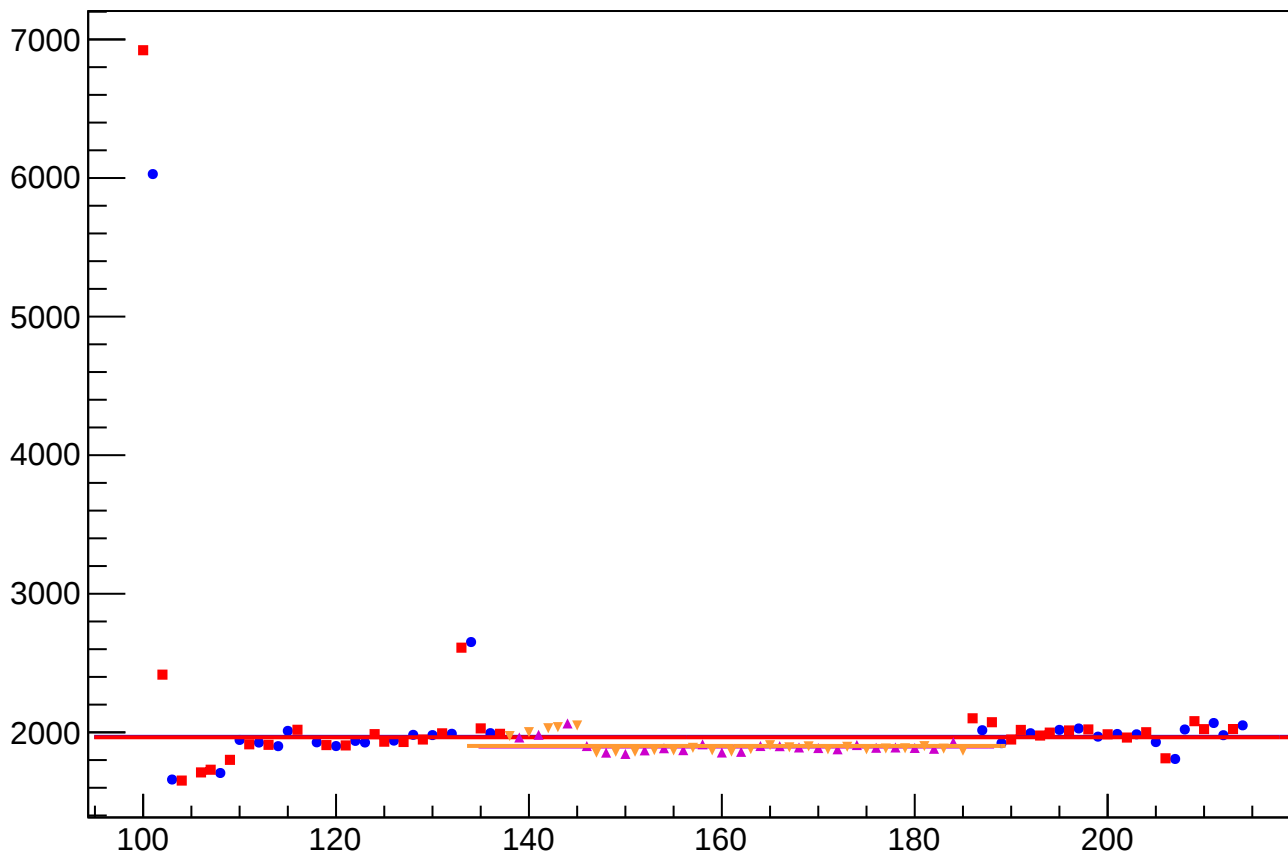
Right: 2181.412 $\pm$ 341.848 χ^2 /NDF: 52.3/64

In: 2822.734 $\pm$ 332.433 χ^2 /NDF:42.6/53

Out: 1858.053 $\pm$ 325.481 χ^2 /NDF:69.0/58

All: 2330.201 $\pm$ 232.569 χ^2 /NDF: 115.9/112

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1967.481+/-0.345 χ^2/NDF : 642430.7/30

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

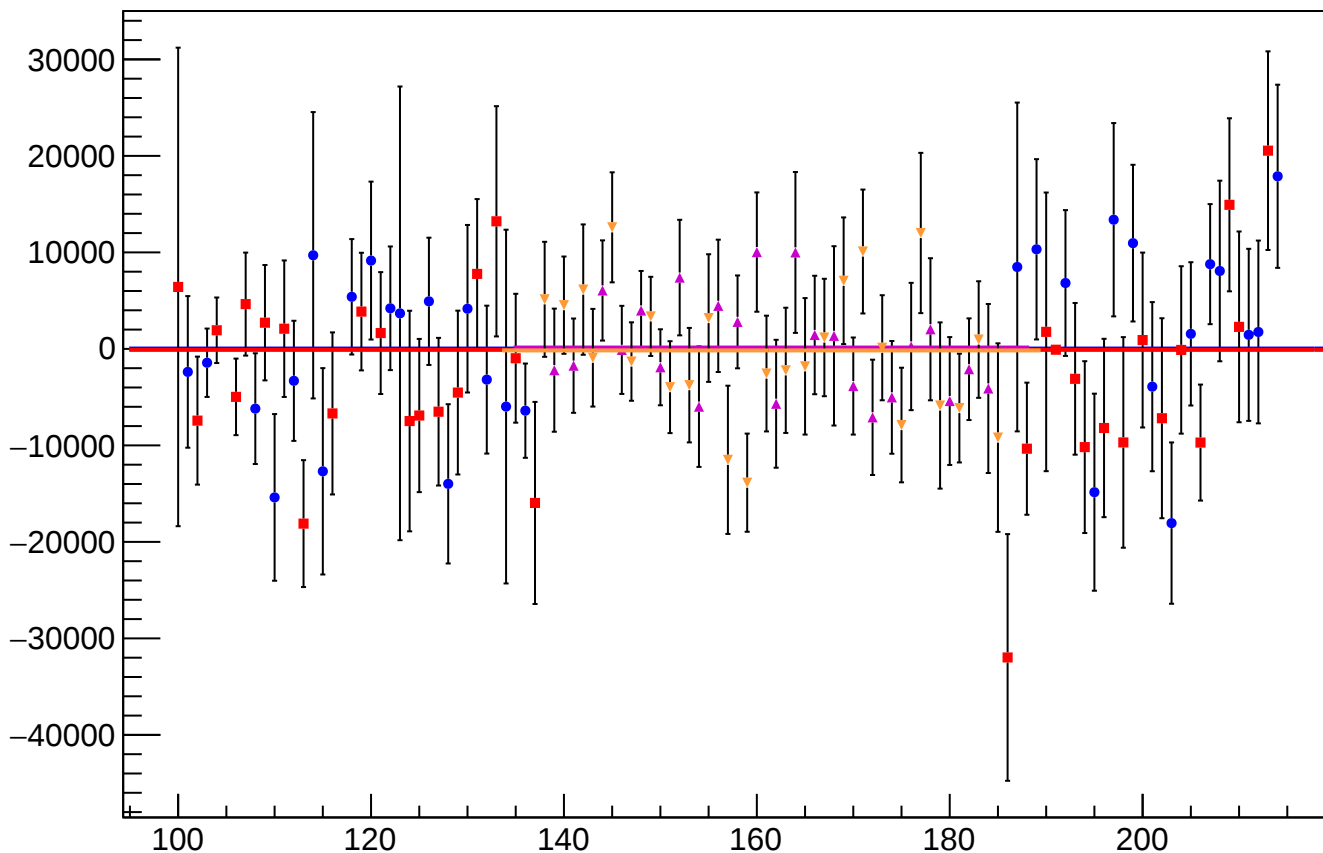
Right: 1965.911+/-0.242 χ^2/NDF : 897487.6/64

In: 1930.027+/-0.235 χ^2/NDF : 685688.6/53

Out: 1930.710+/-0.230 χ^2/NDF : 303810.7/58

All: 1930.376+/-0.164 χ^2/NDF : 989503.7/112

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: 34.047+/-1354.038 χ^2/NDF : 34.2/30

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

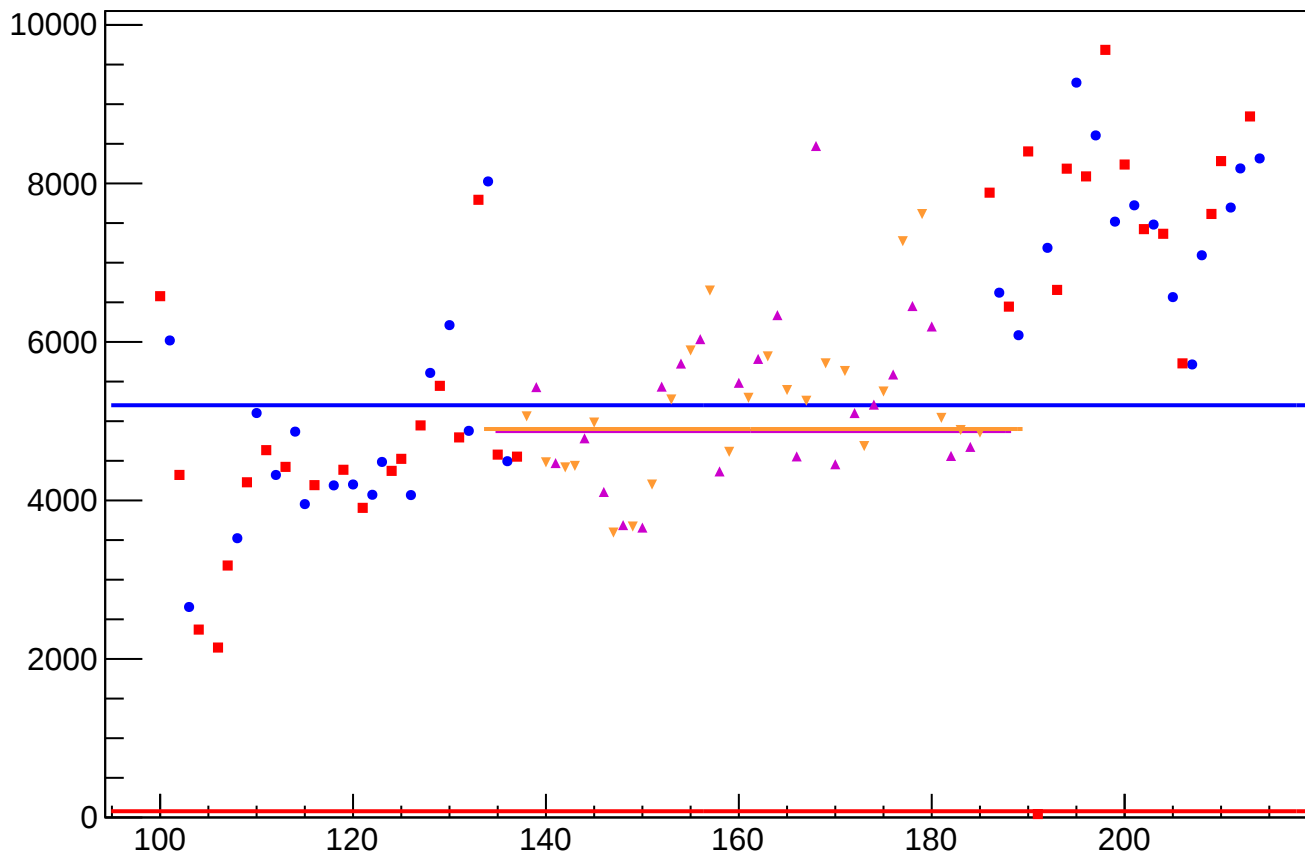
Right: -100.320+/-109.174 χ^2/NDF : 75.1/64

In: 93.224+/-894.234 χ^2/NDF :48.9/53

Out: -101.693+/-109.050 χ^2/NDF :70.5/58

All: -98.836+/-108.248 χ^2/NDF : 119.4/112

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 5201.265+/-0.957 χ^2/NDF : 3559180.3/30

Left Out: 4901.357+/-0.824 χ^2/NDF : 1136916.0/24

Right Out: 78.500+/-0.077 χ^2/NDF : 32848518.0/33

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

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

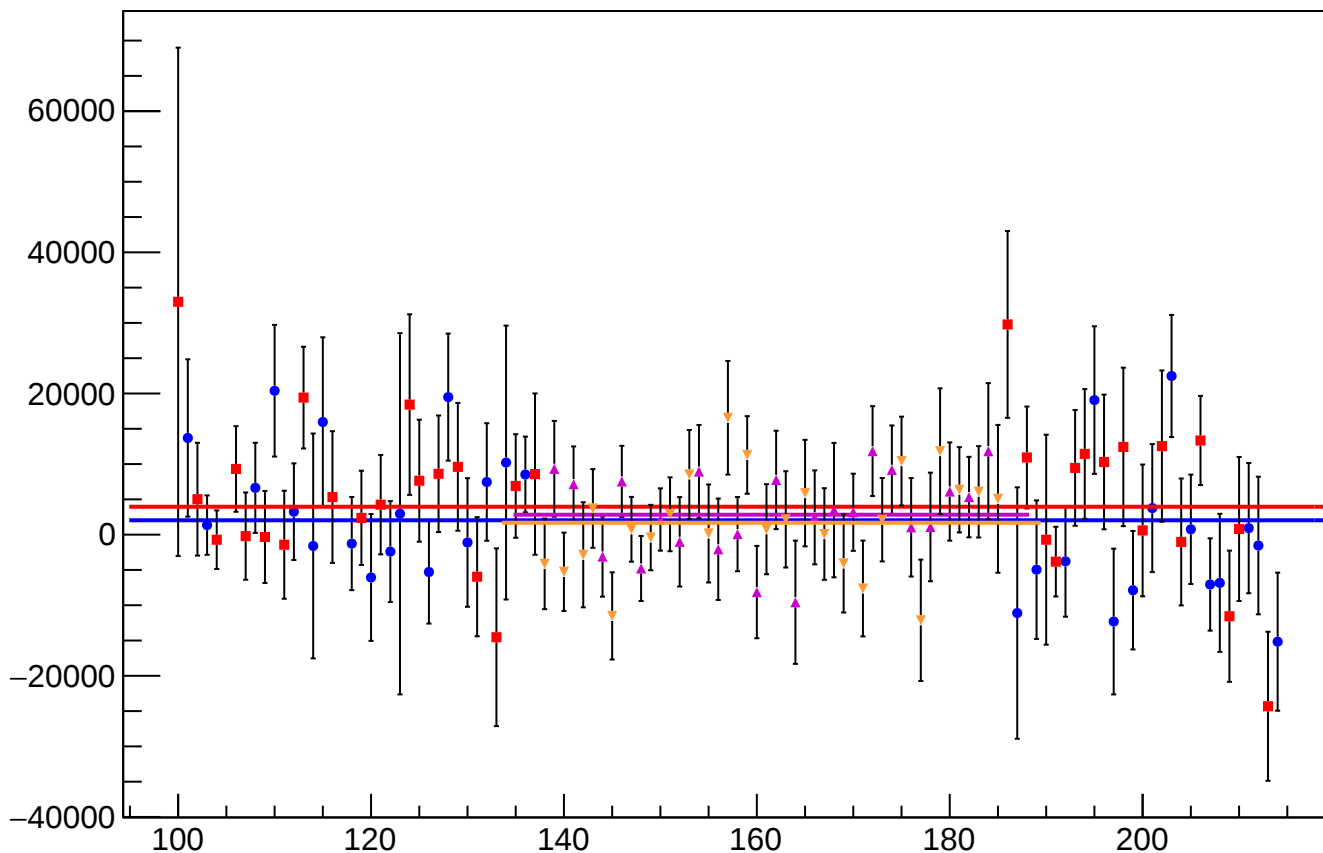
Right: 111.802+/-0.077 χ^2/NDF : 64848701.5/64

In: 5017.365+/-0.632 χ^2/NDF : 4853807.3/53

Out: 120.696+/-0.077 χ^2/NDF : 67912096.4/58

All: 192.449+/-0.077 χ^2/NDF : 131856462.6/100

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2036.334 $\pm$ 1482.031 χ^2 /NDF: 34.6/30

Left Out: 1686.531 $\pm$ 1261.650 χ^2 /NDF: 25.4/24

Right Out: 3956.705 $\pm$ 1362.712 χ^2 /NDF: 37.6/33

Left In: 2824.078 $\pm$ 1288.414 χ^2 /NDF: 18.0/22

Left: 2243.367 $\pm$ 901.435 χ^2 /NDF: 43.8/47

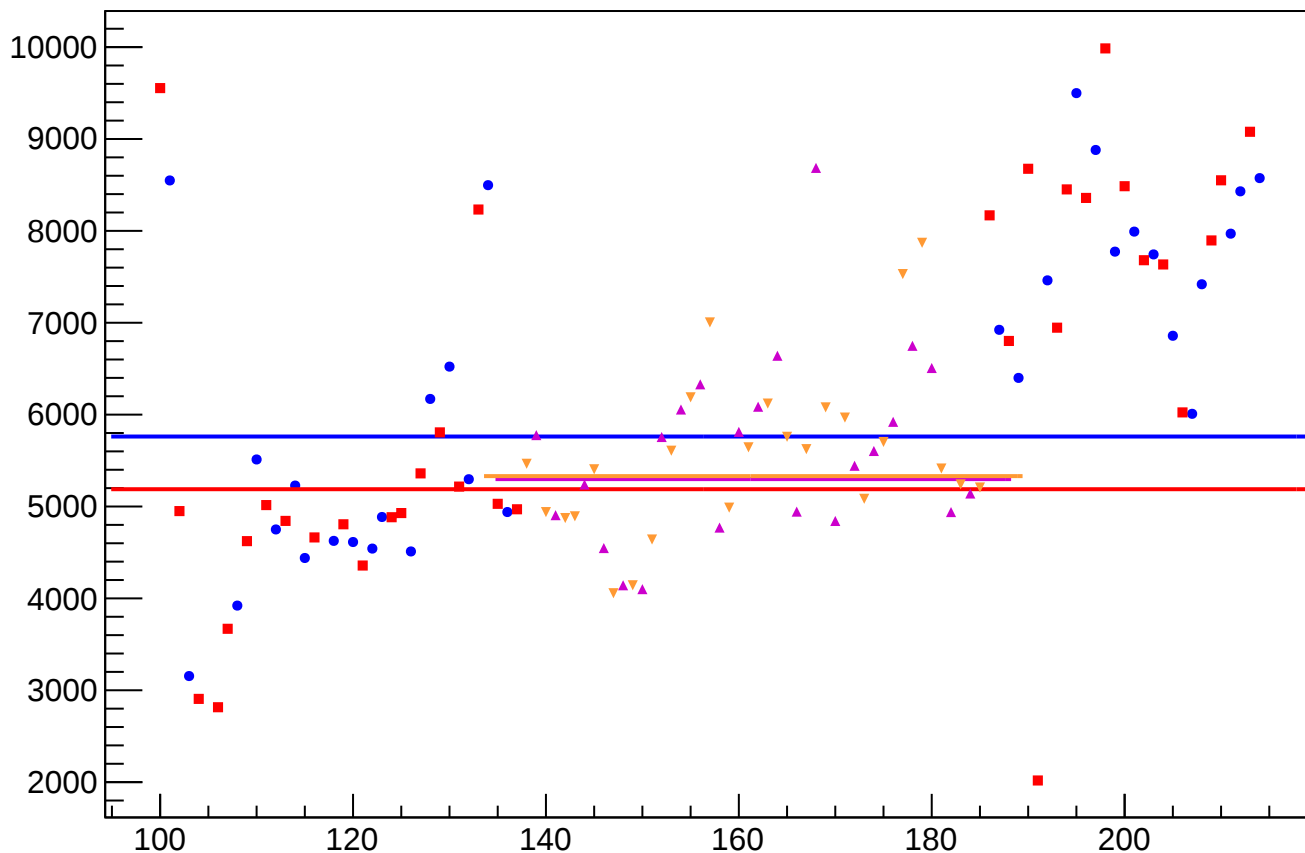
Right: 3076.925 $\pm$ 1003.117 χ^2 /NDF: 73.1/64

In: 2484.991 $\pm$ 972.345 χ^2 /NDF: 52.7/53

Out: 2734.325 $\pm$ 925.790 χ^2 /NDF: 64.5/58

All: 2615.770 $\pm$ 670.487 χ^2 /NDF: 117.2/112

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5761.704+/-1.048 χ^2/NDF : 2872203.3/30

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

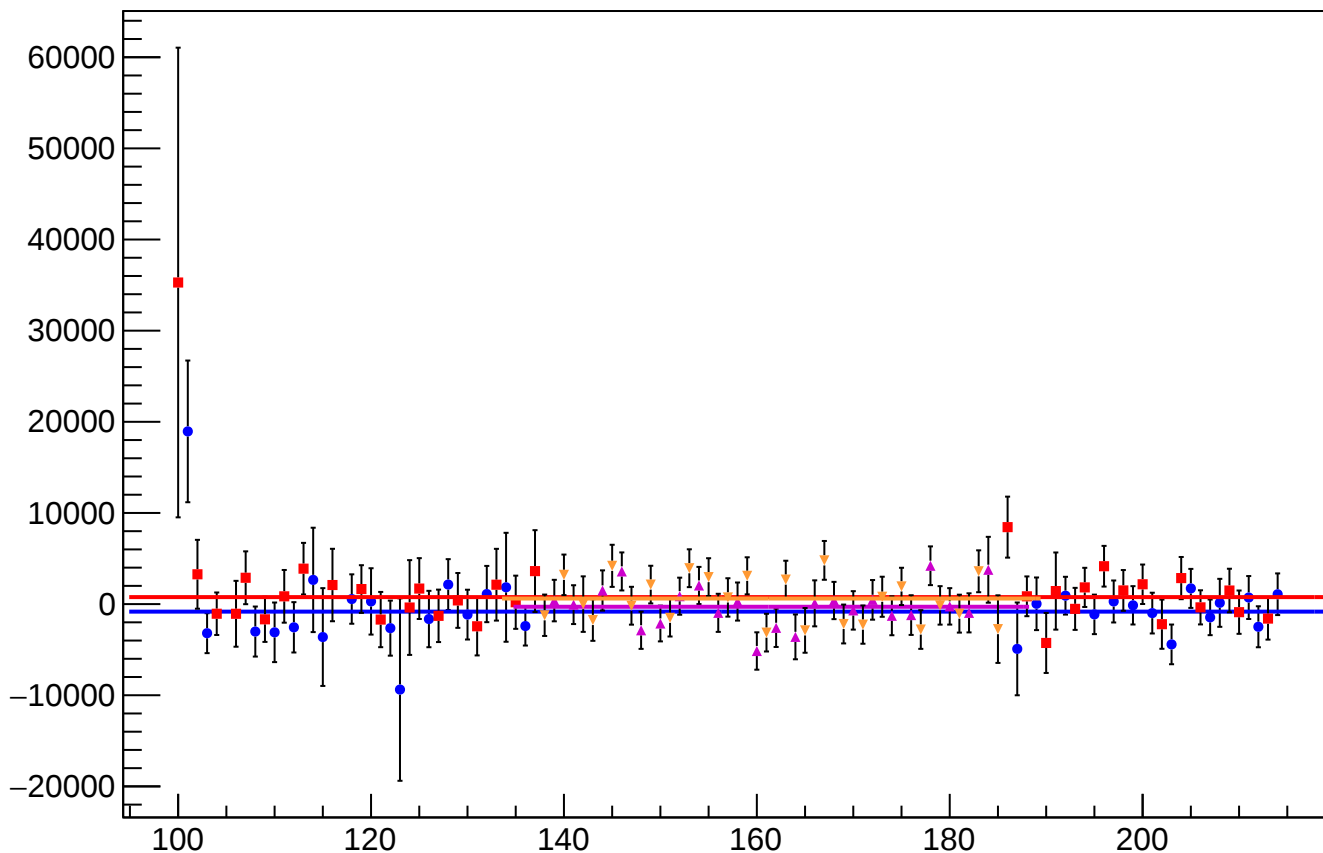
Right: 5449.938+/-0.708 χ^2/NDF : 7597964.6/64

In: 5497.791+/-0.688 χ^2/NDF : 3939579.9/53

Out: 5264.711+/-0.654 χ^2/NDF : 5442845.6/58

All: 5375.343+/-0.474 χ^2/NDF : 9442798.5/11

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -826.136 ± 481.053 $\chi^2/\text{NDF}: 21.4/30$

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

Right Out: 766.910 ± 472.534 $\chi^2/\text{NDF}: 23.9/33$

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

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

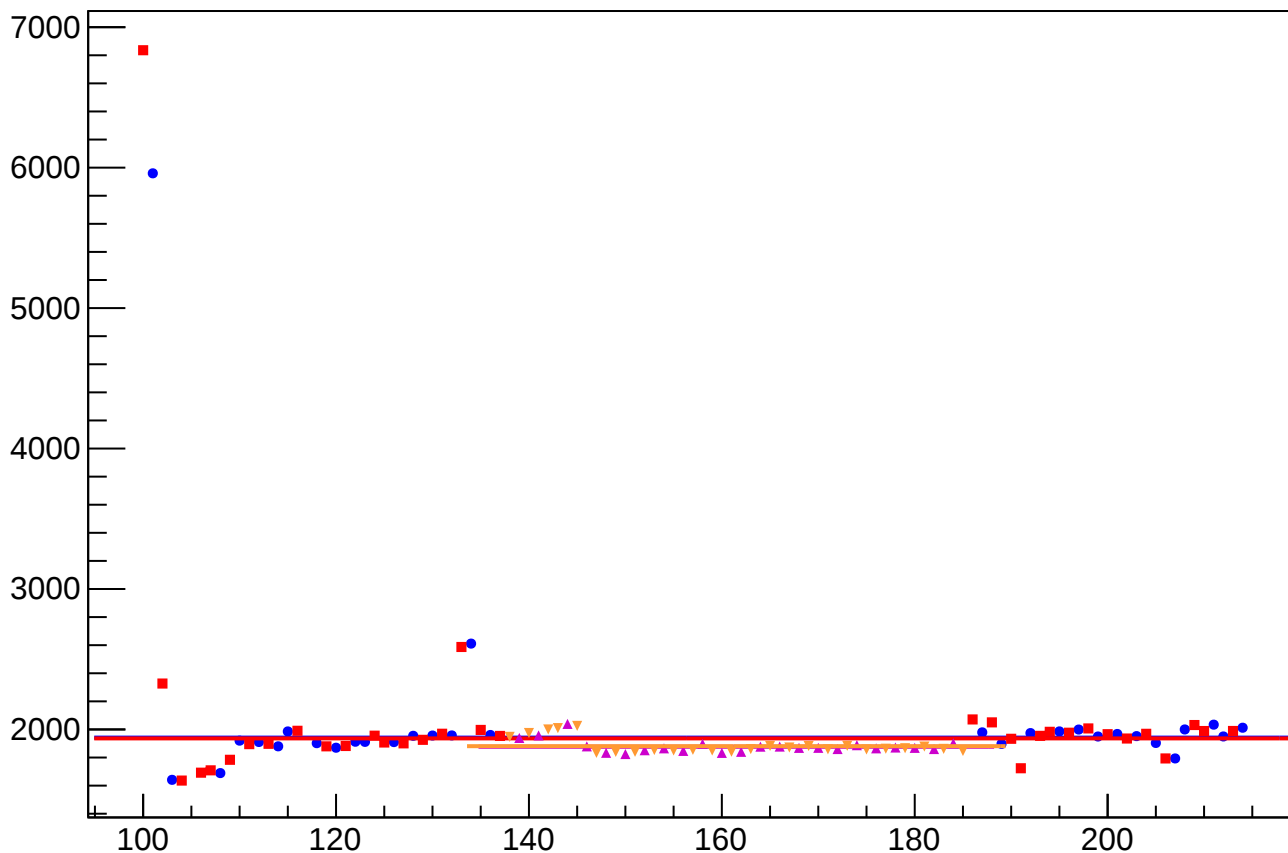
Right: -15.382 ± 337.103 $\chi^2/\text{NDF}: 51.0/64$

In: -541.561 ± 328.462 $\chi^2/\text{NDF}: 45.7/53$

Out: 683.803 ± 321.332 $\chi^2/\text{NDF}: 56.7/58$

All: 84.566 ± 229.696 $\chi^2/\text{NDF}: 109.5/112$

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1941.919 $\pm$ 0.340 χ^2 /NDF: 638279.0/30

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

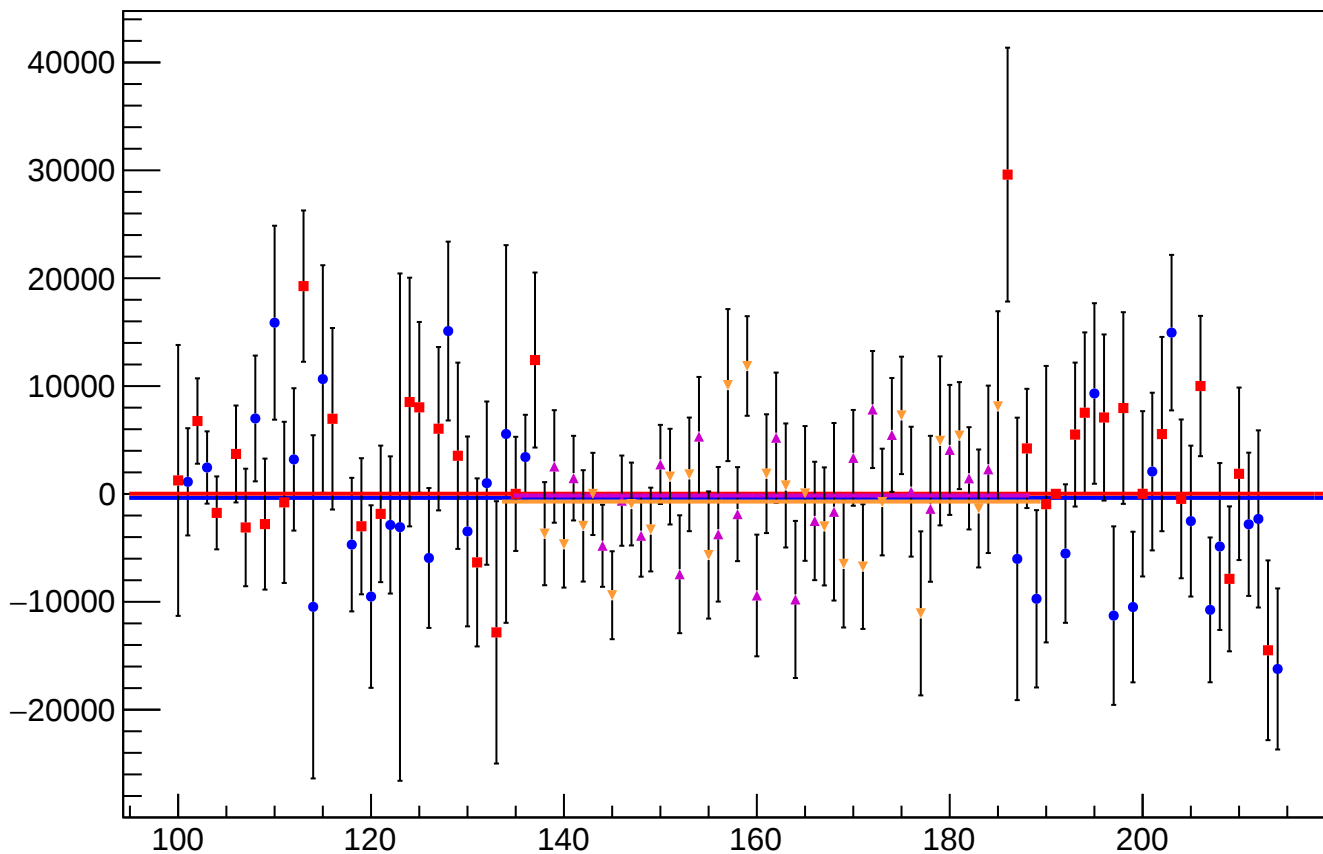
Right: 1939.005 $\pm$ 0.238 χ^2 /NDF: 889407.8/64

In: 1907.098 $\pm$ 0.232 χ^2 /NDF: 678410.5/53

Out: 1906.449 $\pm$ 0.227 χ^2 /NDF: 294428.6/58

All: 1906.766 $\pm$ 0.162 χ^2 /NDF: 972843.1/112

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: -364.733+/-1232.766 χ^2/NDF : 34.2/30

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

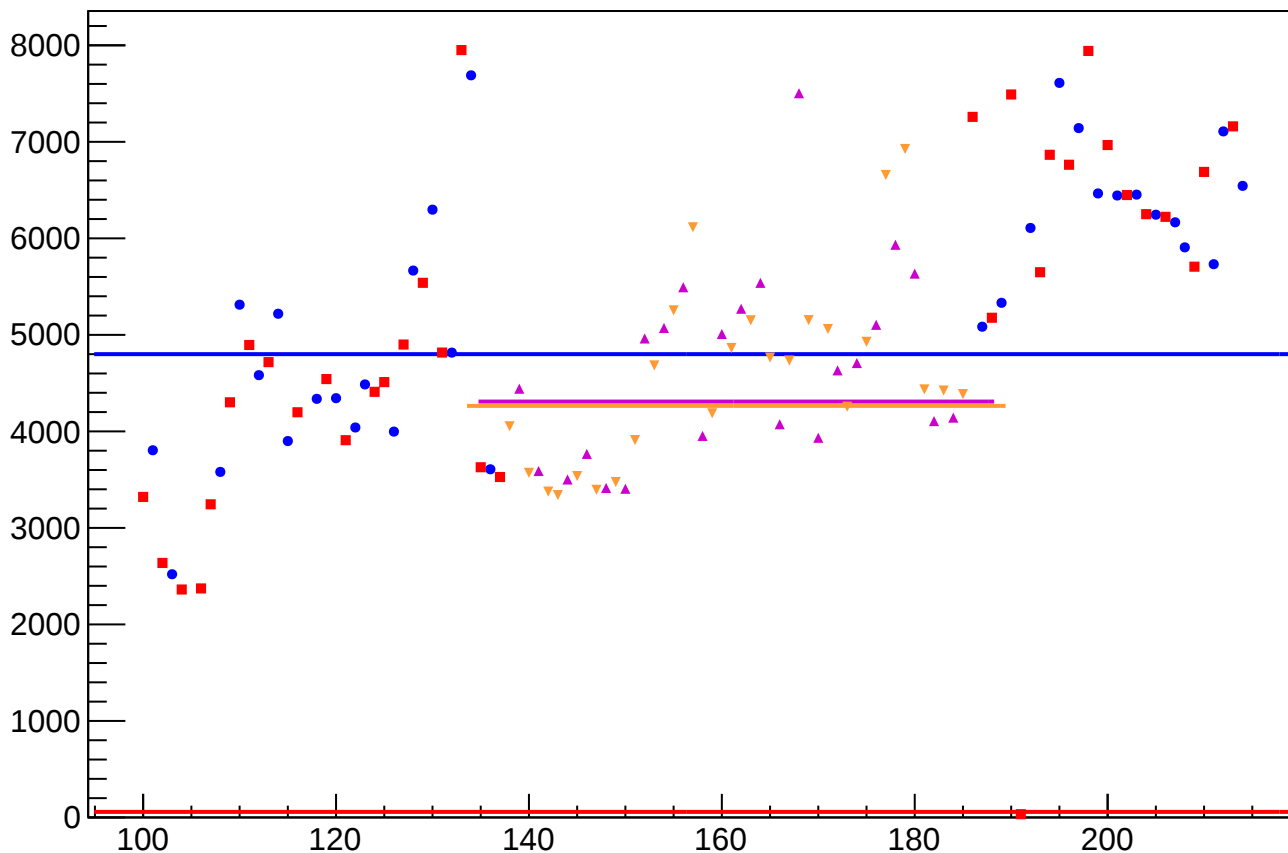
Right: 20.096+/-85.573 χ^2/NDF : 71.1/64

In: -240.934+/-800.957 χ^2/NDF : 51.1/53

Out: 16.812+/-85.477 χ^2/NDF : 64.5/58

All: 13.909+/-84.994 χ^2/NDF : 115.7/112

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 4800.226 $\pm$ 0.872 χ^2 /NDF: 2828934.1/30

Left Out: 4264.433 $\pm$ 0.720 χ^2 /NDF: 1354900.8/24

Right Out: 57.843 $\pm$ 0.061 χ^2 /NDF: 33020920.4/33

Left In: 4309.034 $\pm$ 0.745 χ^2 /NDF: 1305133.3/22

Left: 4285.960 $\pm$ 0.518 χ^2 /NDF: 2661888.1/47

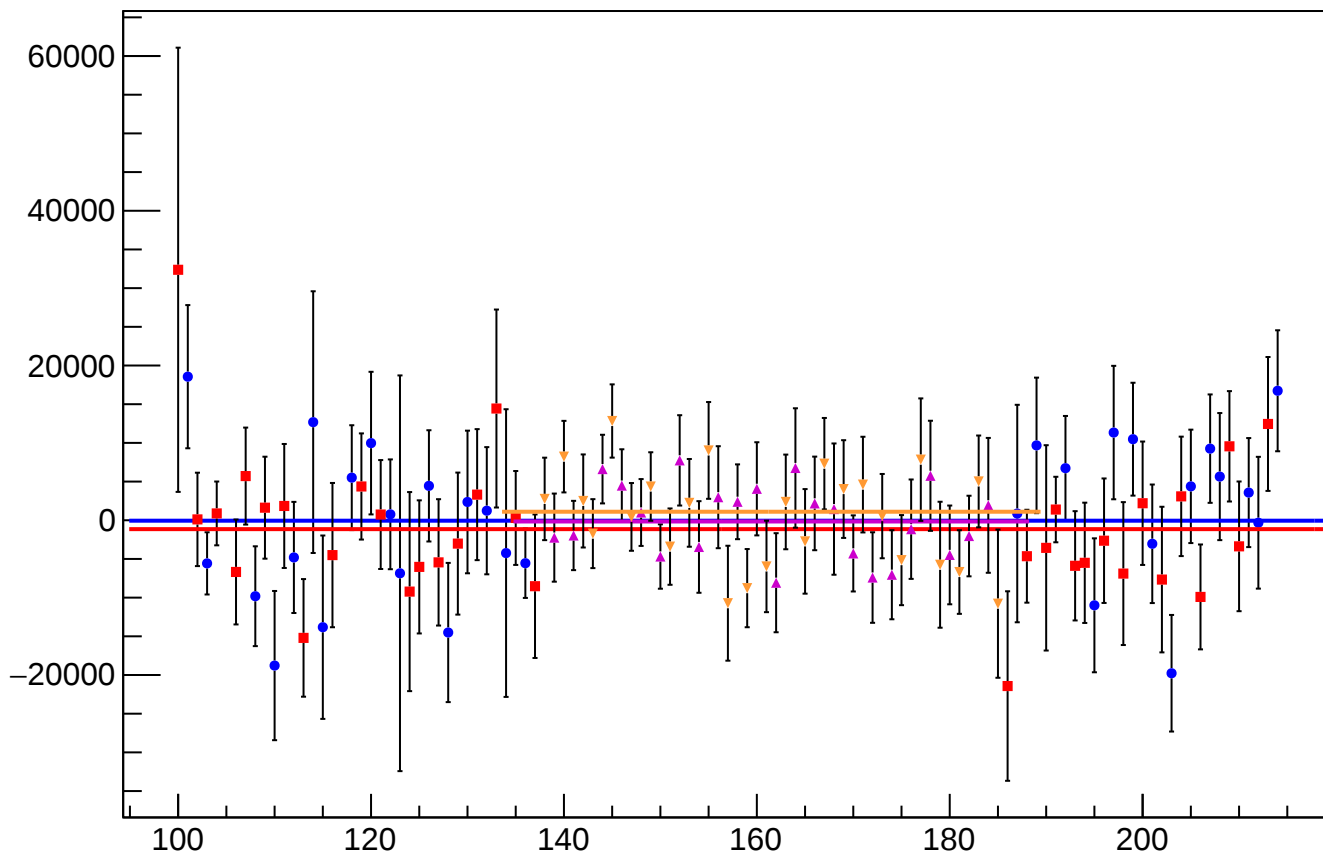
Right: 80.694 $\pm$ 0.061 χ^2 /NDF: 65305213.0/64

In: 4516.386 $\pm$ 0.566 χ^2 /NDF: 4317549.2/53

Out: 87.517 $\pm$ 0.060 χ^2 /NDF: 68303980.5/58

All: 137.388 $\pm$ 0.060 χ^2 /NDF: 133083016.0/3

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -56.677 ± 1375.540 $\chi^2/\text{NDF}: 43.1/30$

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 $\chi^2/\text{NDF}: 44.7/47$

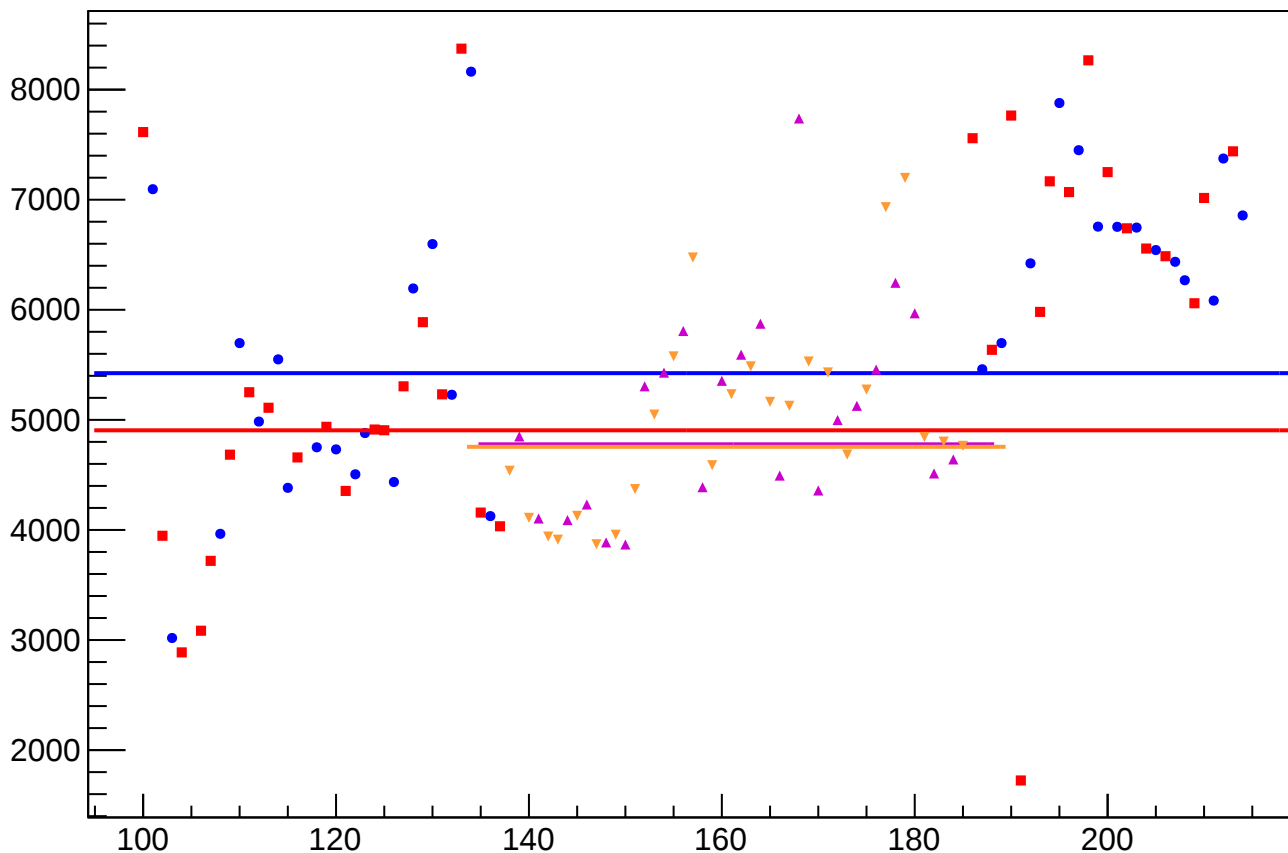
Right: -646.303 ± 932.592 $\chi^2/\text{NDF}: 67.1/64$

In: -116.225 ± 887.445 $\chi^2/\text{NDF}: 58.6/53$

Out: 110.111 ± 842.431 $\chi^2/\text{NDF}: 54.0/58$

All: 2.829 ± 610.983 $\chi^2/\text{NDF}: 112.6/112$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5424.332 $\pm$ 0.973 χ^2/NDF : 2075155.5/30

Left Out: 4755.383 $\pm$ 0.797 χ^2/NDF : 953328.0/24

Right Out: 4905.033 $\pm$ 0.894 χ^2/NDF : 3806693.7/33

Left In: 4777.831 $\pm$ 0.821 χ^2/NDF : 950291.2/22

Left: 4766.265 $\pm$ 0.572 χ^2/NDF : 1904004.1/47

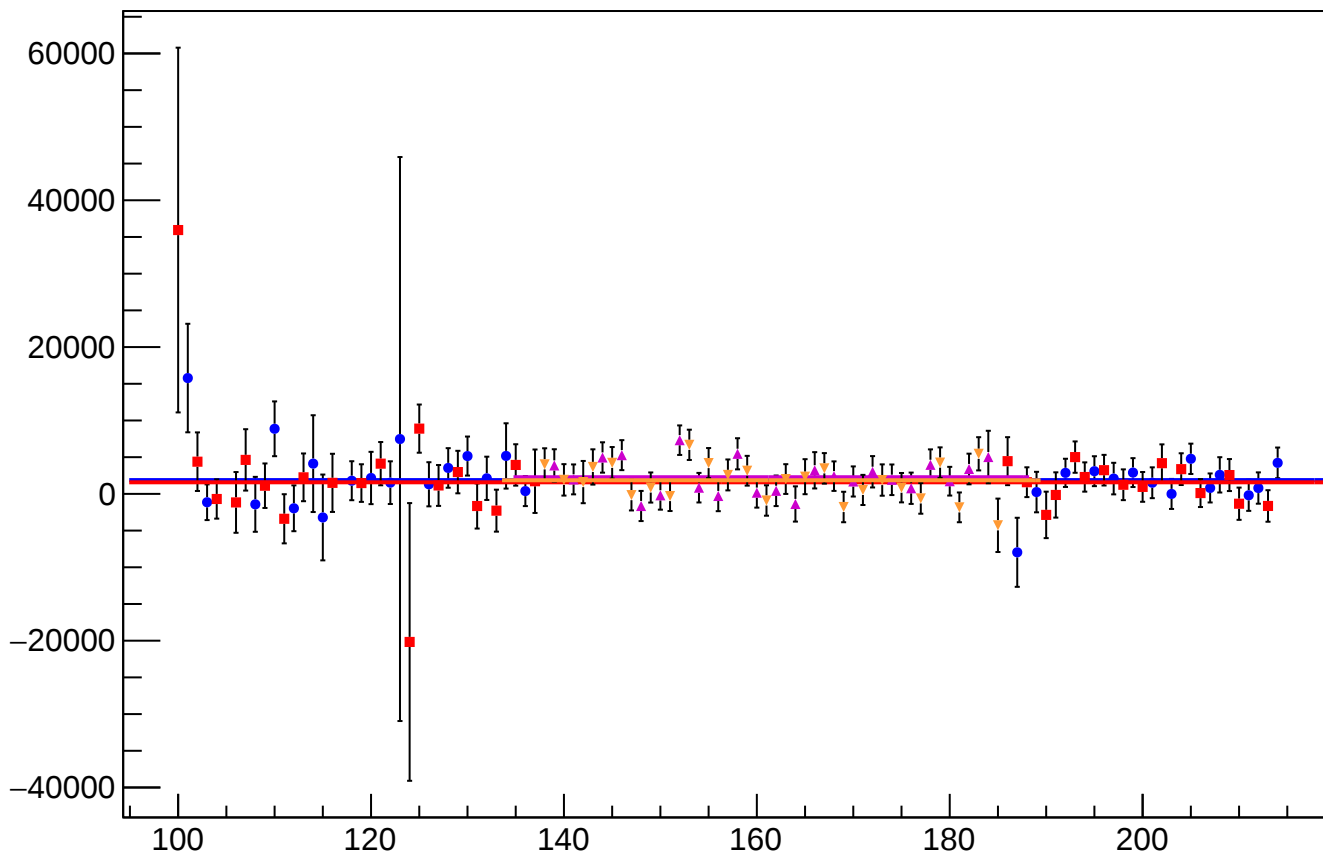
Right: 5142.925 $\pm$ 0.658 χ^2/NDF : 6036316.9/64

In: 5046.926 $\pm$ 0.628 χ^2/NDF : 3283353.3/53

Out: 4821.598 $\pm$ 0.595 χ^2/NDF : 4775634.2/58

All: 4928.247 $\pm$ 0.432 χ^2/NDF : 8126898.5/11

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1878.661 $\pm$ 467.147 χ^2 /NDF: 26.1/30

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

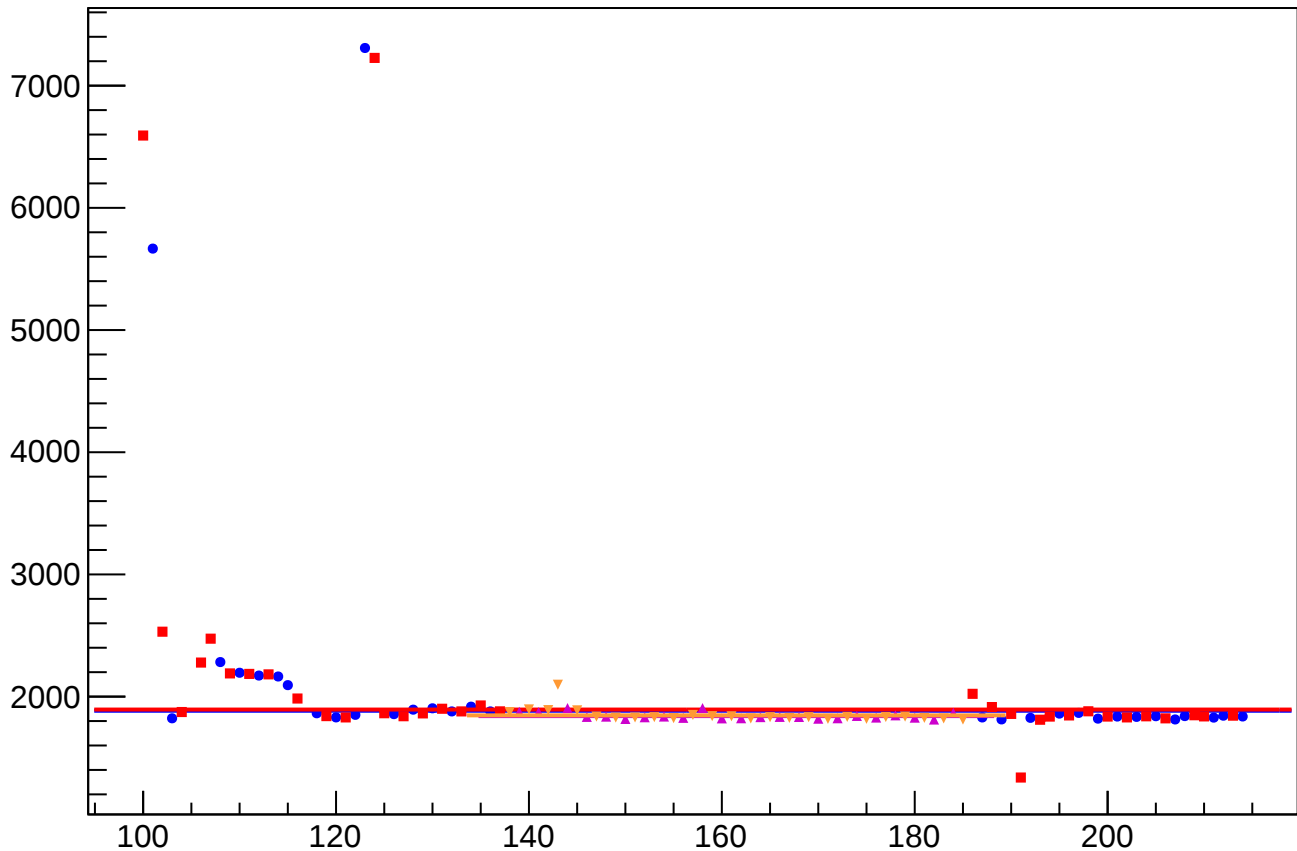
Right: 1726.469 $\pm$ 328.497 χ^2 /NDF: 56.7/64

In: 2084.464 $\pm$ 320.952 χ^2 /NDF:53.4/53

Out: 1726.771 $\pm$ 315.152 χ^2 /NDF:60.5/58

All: 1902.356 $\pm$ 224.869 χ^2 /NDF: 114.5/112

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1884.370+/-0.330 χ^2/NDF : 641321.4/30

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

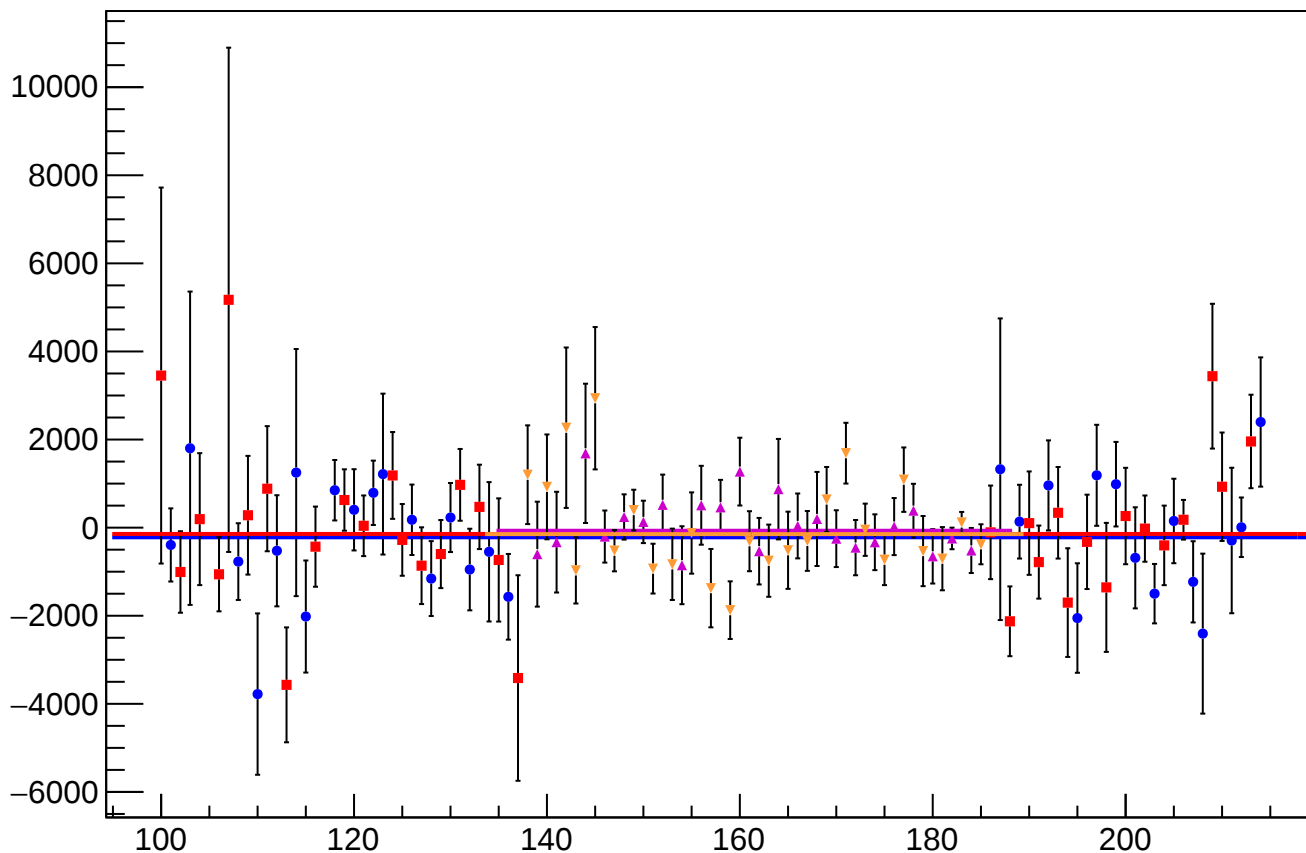
Right: 1889.279+/-0.232 χ^2/NDF : 1118294.5/64

In: 1861.230+/-0.227 χ^2/NDF : 657356.5/53

Out: 1868.692+/-0.223 χ^2/NDF : 515132.6/58

All: 1865.029+/-0.159 χ^2/NDF : 1173039.5/111

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -219.142 ± 180.501 χ^2/NDF : 33.5/30

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

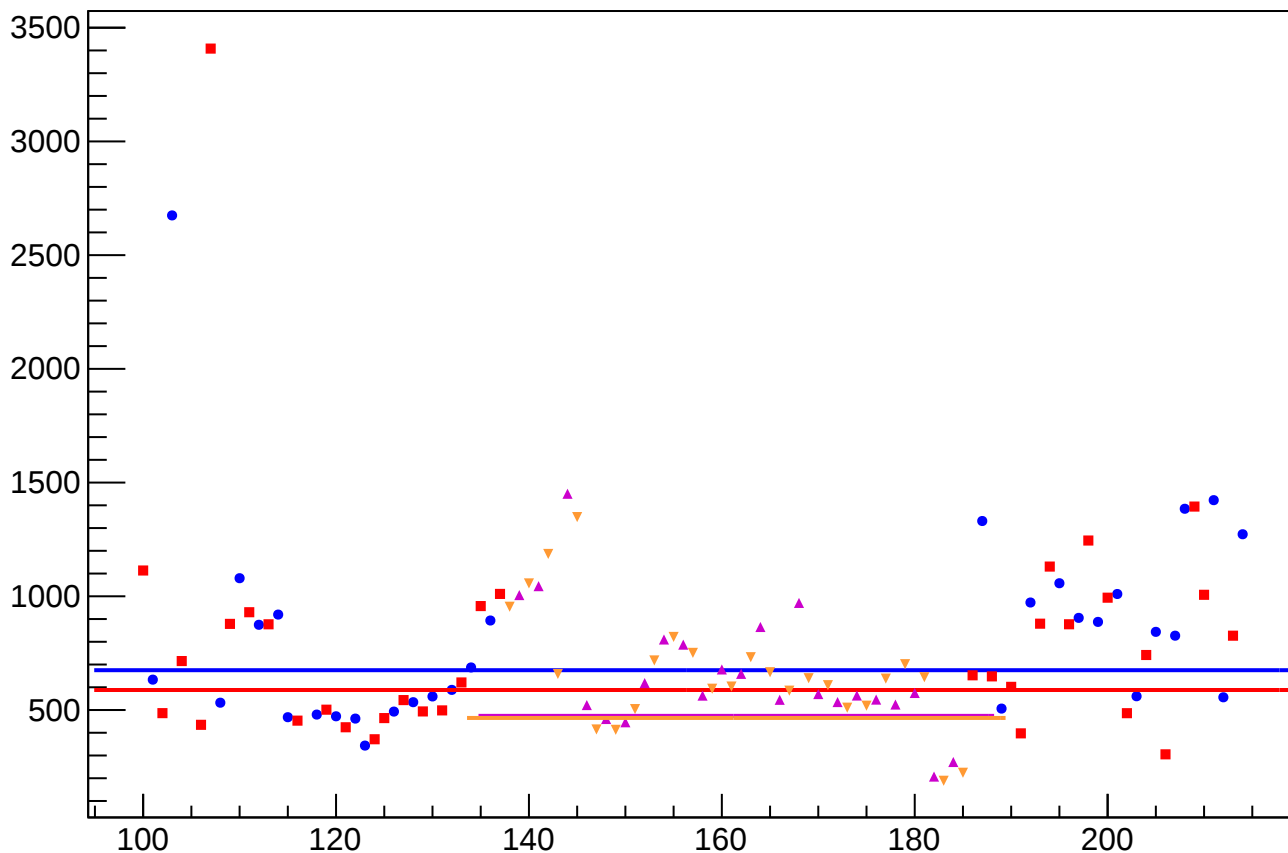
Right: -177.445 ± 121.359 χ^2/NDF : 73.1/64

In: -119.287 ± 103.523 χ^2/NDF : 46.3/53

Out: -145.590 ± 97.866 χ^2/NDF : 77.2/58

All: -133.177 ± 71.117 χ^2/NDF : 123.5/112

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 675.048+/-0.128 χ^2/NDF : 3866048.5/30

Left Out: 465.080+/-0.086 χ^2/NDF : 7086137.6/24

Right Out: 587.970+/-0.116 χ^2/NDF : 4715573.4/33

Left In: 474.263+/-0.089 χ^2/NDF : 6173100.1/22

Left: 469.509+/-0.062 χ^2/NDF : 13264703.6/47

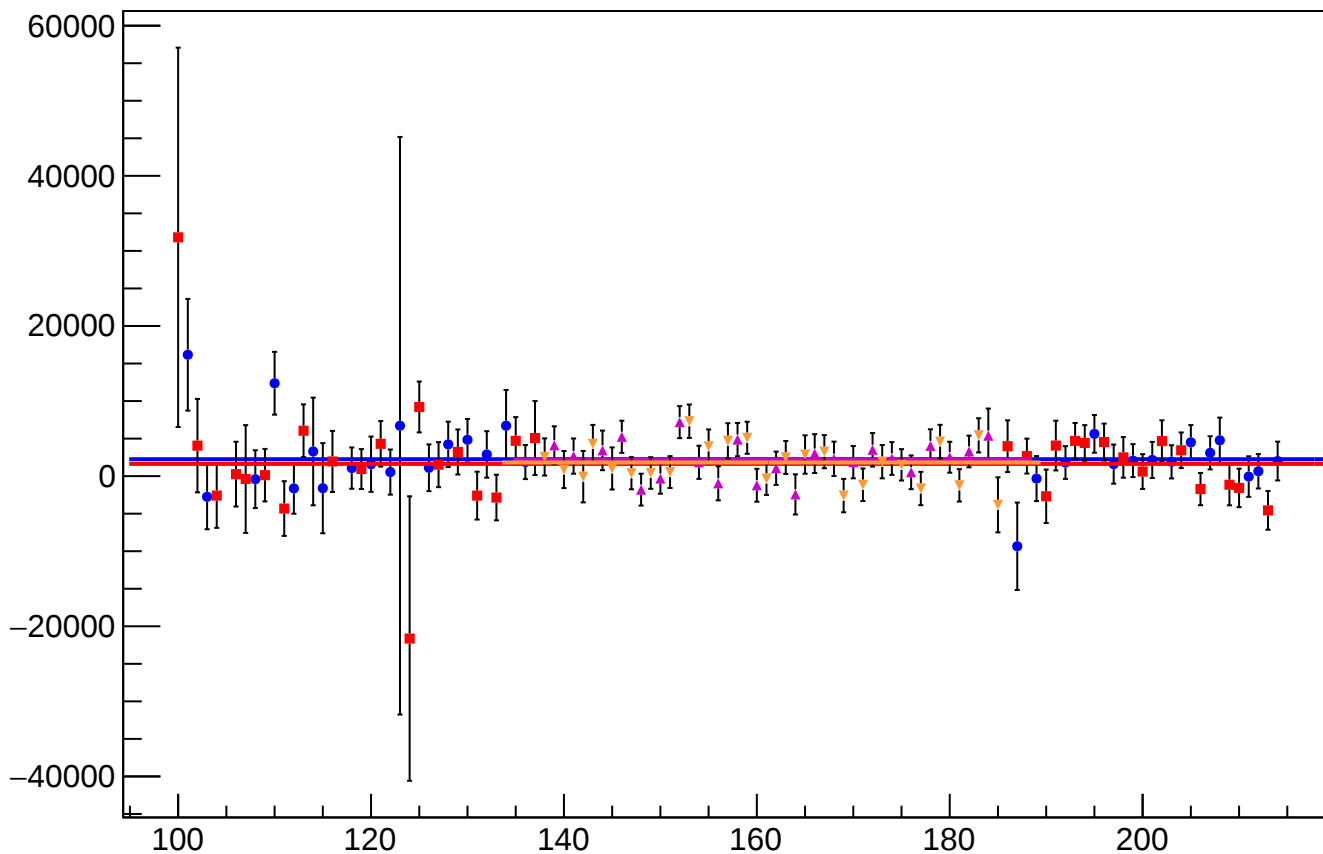
Right: 627.334+/-0.086 χ^2/NDF : 8836675.3/64

In: 540.309+/-0.073 χ^2/NDF : 11699882.2/53

Out: 508.871+/-0.069 χ^2/NDF : 12525014.5/58

All: 523.707+/-0.050 χ^2/NDF : 24322294.6/112

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2252.854 $\pm$ 530.136 χ^2 /NDF: 25.6/30

Left Out: 1824.066 $\pm$ 462.694 χ^2 /NDF:32.1/24

Right Out: 1630.759 $\pm$ 526.433 χ^2 /NDF: 40.2/33

Left In: 2208.114 $\pm$ 474.050 χ^2 /NDF:25.3/22

Left: 2011.435 $\pm$ 331.116 χ^2 /NDF: 57.8/47

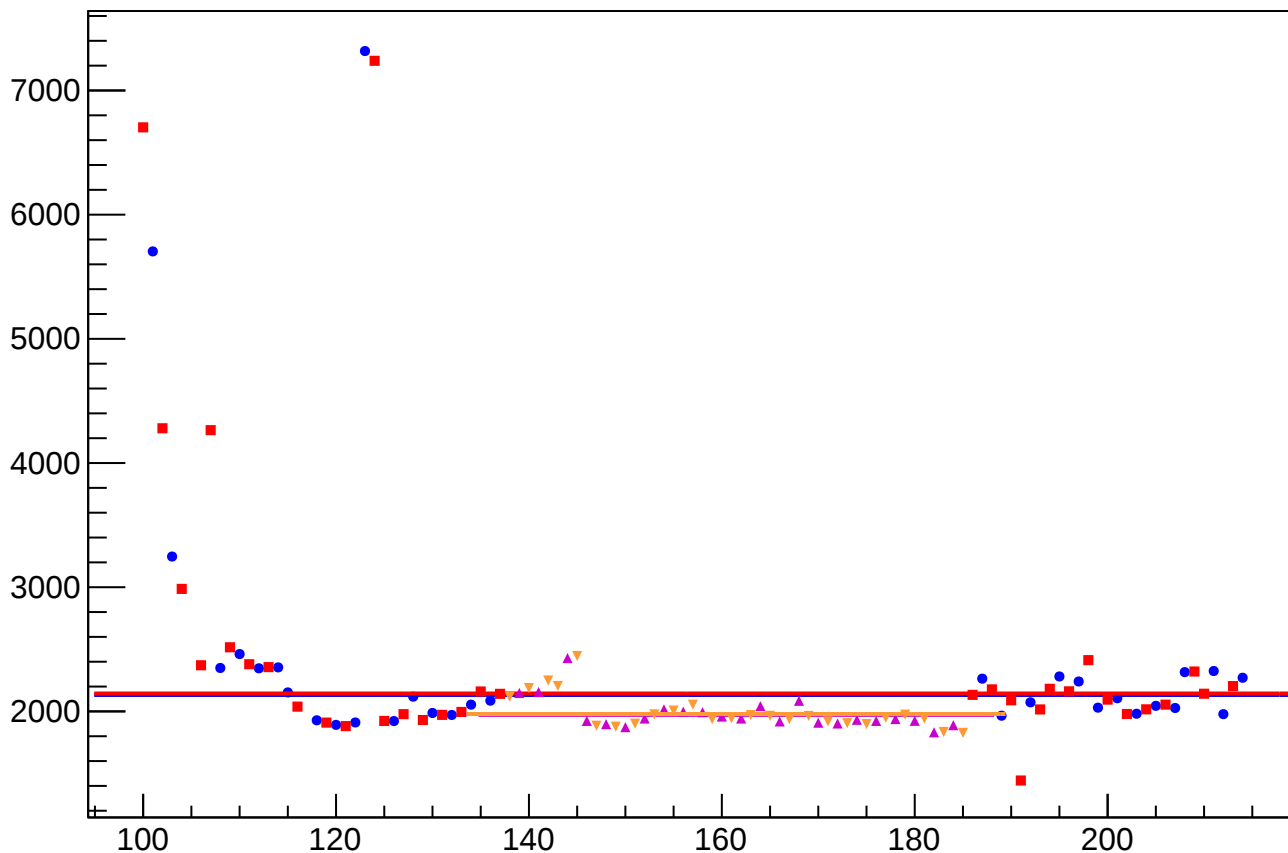
Right: 1939.627 $\pm$ 373.546 χ^2 /NDF: 66.4/64

In: 2227.993 $\pm$ 353.375 χ^2 /NDF:50.9/53

Out: 1739.818 $\pm$ 347.536 χ^2 /NDF:72.4/58

All: 1979.839 $\pm$ 247.784 χ^2 /NDF: 124.2/112

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2132.335 $\pm$ 0.375 χ^2 /NDF: 783774.1/30

Left Out: 1978.997 $\pm$ 0.327 χ^2 /NDF:139299.8/24

Right Out: 2144.159 $\pm$ 0.372 χ^2 /NDF: 951630.0/33

Left In: 1972.166 $\pm$ 0.335 χ^2 /NDF:116452.5/22

Left: 1975.665 $\pm$ 0.234 χ^2 /NDF: 255965.0/47

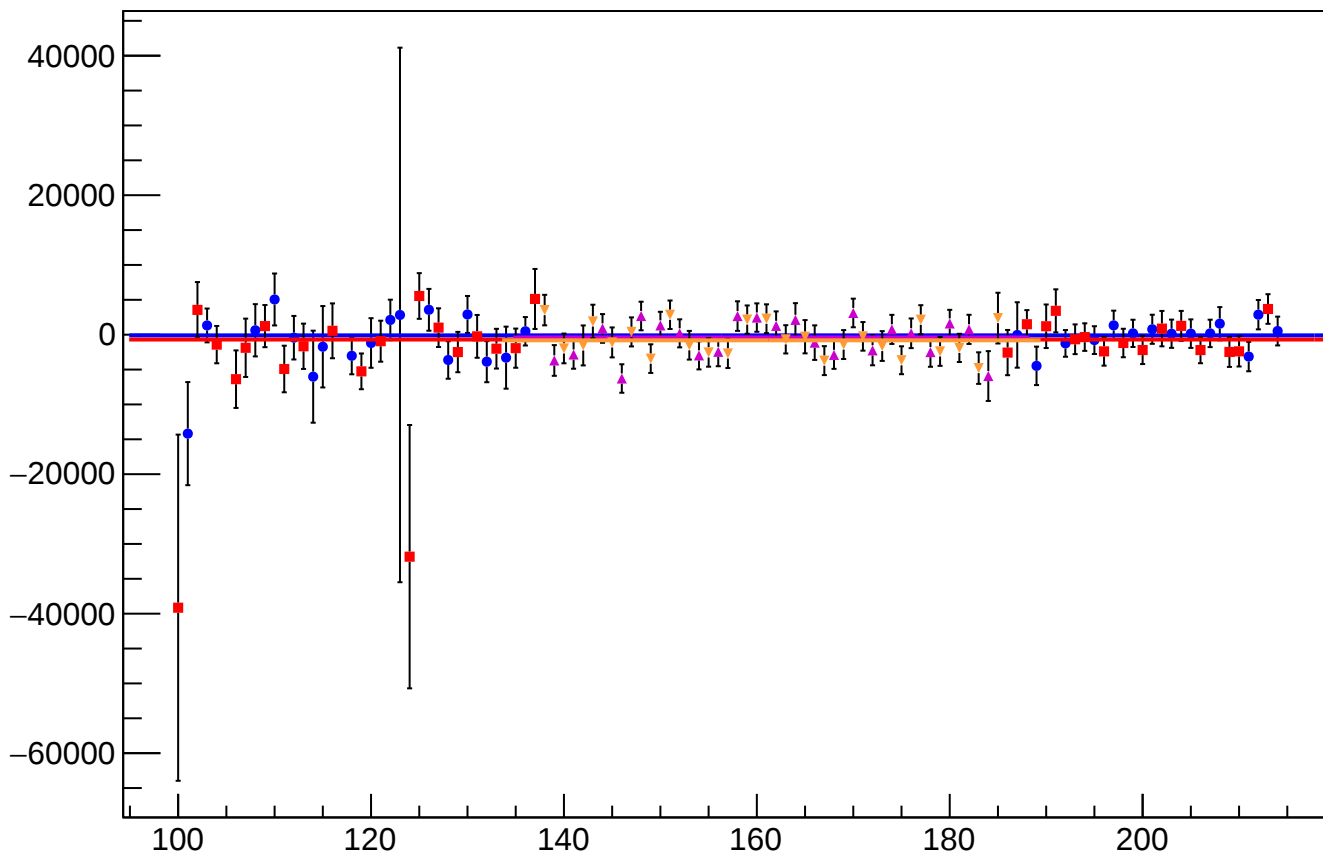
Right: 2138.289 $\pm$ 0.264 χ^2 /NDF: 1735905.1/64

In: 2043.333 $\pm$ 0.250 χ^2 /NDF:1001672.9/53

Out: 2050.979 $\pm$ 0.246 χ^2 /NDF:1201994.7/58

All: 2047.220 $\pm$ 0.175 χ^2 /NDF: 2204143.6/111

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -97.772 $\pm$ 463.827 χ^2/NDF : 23.8/30

Left Out: -808.436 $\pm$ 430.304 χ^2/NDF :27.9/24

Right Out: -694.720 $\pm$ 458.509 χ^2/NDF : 32.7/33

Left In: -398.797 $\pm$ 441.246 χ^2/NDF :34.4/22

Left: -608.759 $\pm$ 308.066 χ^2/NDF : 62.8/47

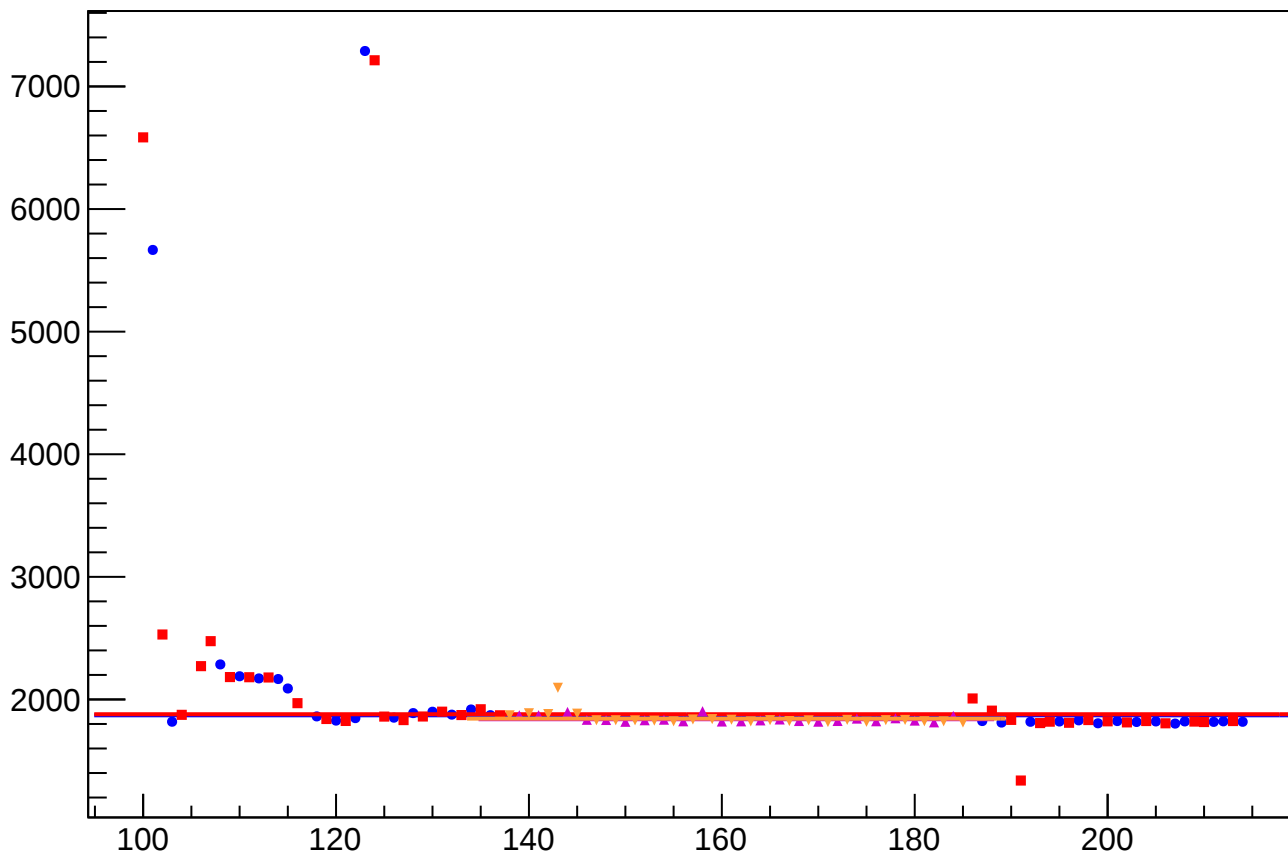
Right: -399.688 $\pm$ 326.079 χ^2/NDF : 57.4/64

In: -255.790 $\pm$ 319.693 χ^2/NDF :58.4/53

Out: -755.183 $\pm$ 313.768 χ^2/NDF :60.7/58

All: -510.157 $\pm$ 223.933 χ^2/NDF : 120.4/112

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1870.715 $\pm$ 0.328 χ^2 /NDF: 651529.9/30

Left Out: 1843.747 $\pm$ 0.304 χ^2 /NDF: 26867.4/24

Right Out: 1879.451 $\pm$ 0.324 χ^2 /NDF: 485483.9/33

Left In: 1838.611 $\pm$ 0.312 χ^2 /NDF: 6335.1/22

Left: 1841.243 $\pm$ 0.218 χ^2 /NDF: 33341.4/47

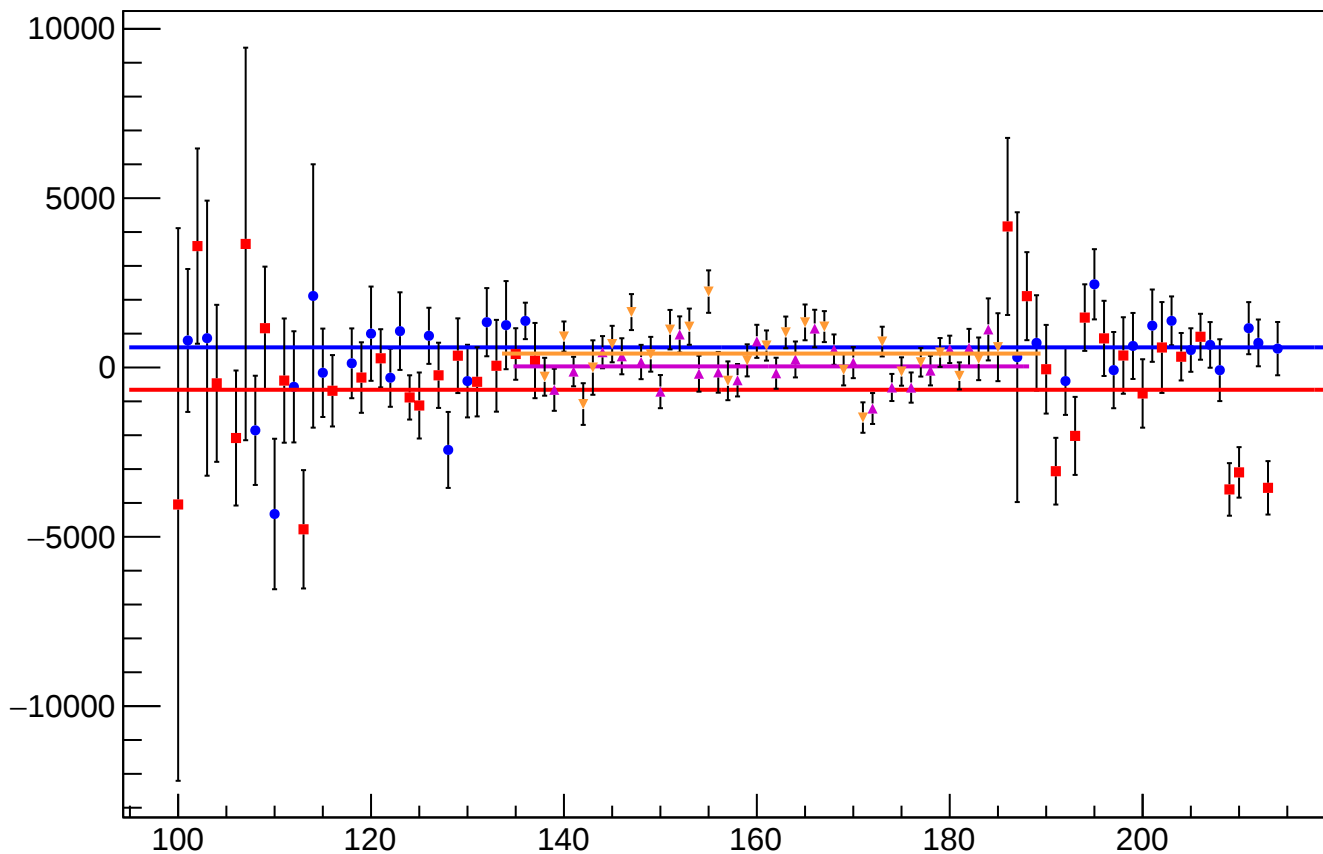
Right: 1875.134 $\pm$ 0.231 χ^2 /NDF: 1137372.8/64

In: 1853.863 $\pm$ 0.226 χ^2 /NDF: 662894.7/53

Out: 1860.467 $\pm$ 0.222 χ^2 /NDF: 518799.8/58

All: 1857.227 $\pm$ 0.158 χ^2 /NDF: 1182129.3/111

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 594.793 $\pm$ 176.840 χ^2 /NDF: 28.3/30

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF: 61.2/24

Right Out: -657.933 $\pm$ 180.825 χ^2 /NDF: 85.1/33

Left In: 32.456 $\pm$ 102.403 χ^2 /NDF: 32.7/22

Left: 225.398 $\pm$ 71.712 χ^2 /NDF: 100.9/47

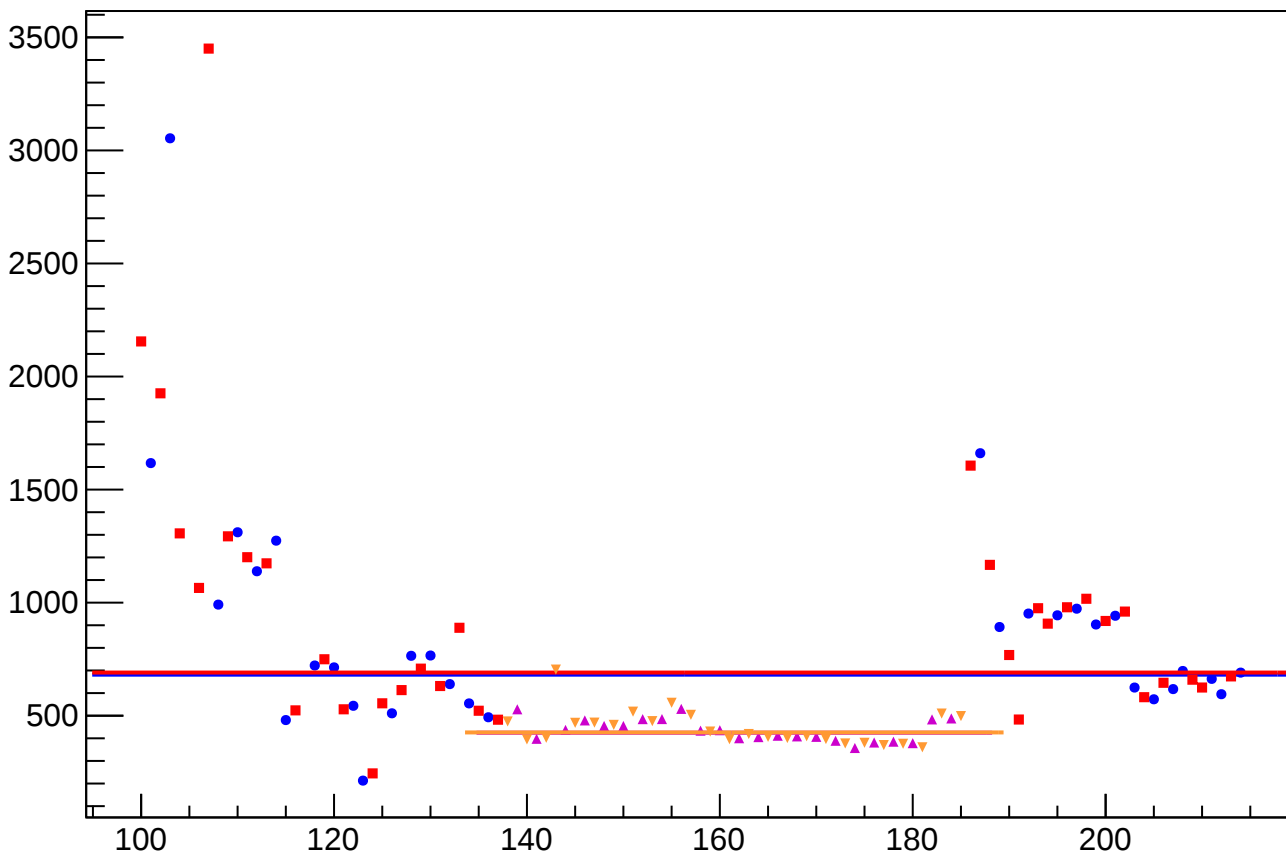
Right: -17.614 $\pm$ 126.430 χ^2 /NDF: 137.9/64

In: 173.670 $\pm$ 88.618 χ^2 /NDF: 68.6/53

Out: 158.957 $\pm$ 87.815 χ^2 /NDF: 172.9/58

All: 166.246 $\pm$ 62.376 χ^2 /NDF: 241.5/112

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 681.555 $\pm$ 0.125 χ^2 /NDF: 3227195.9/30

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

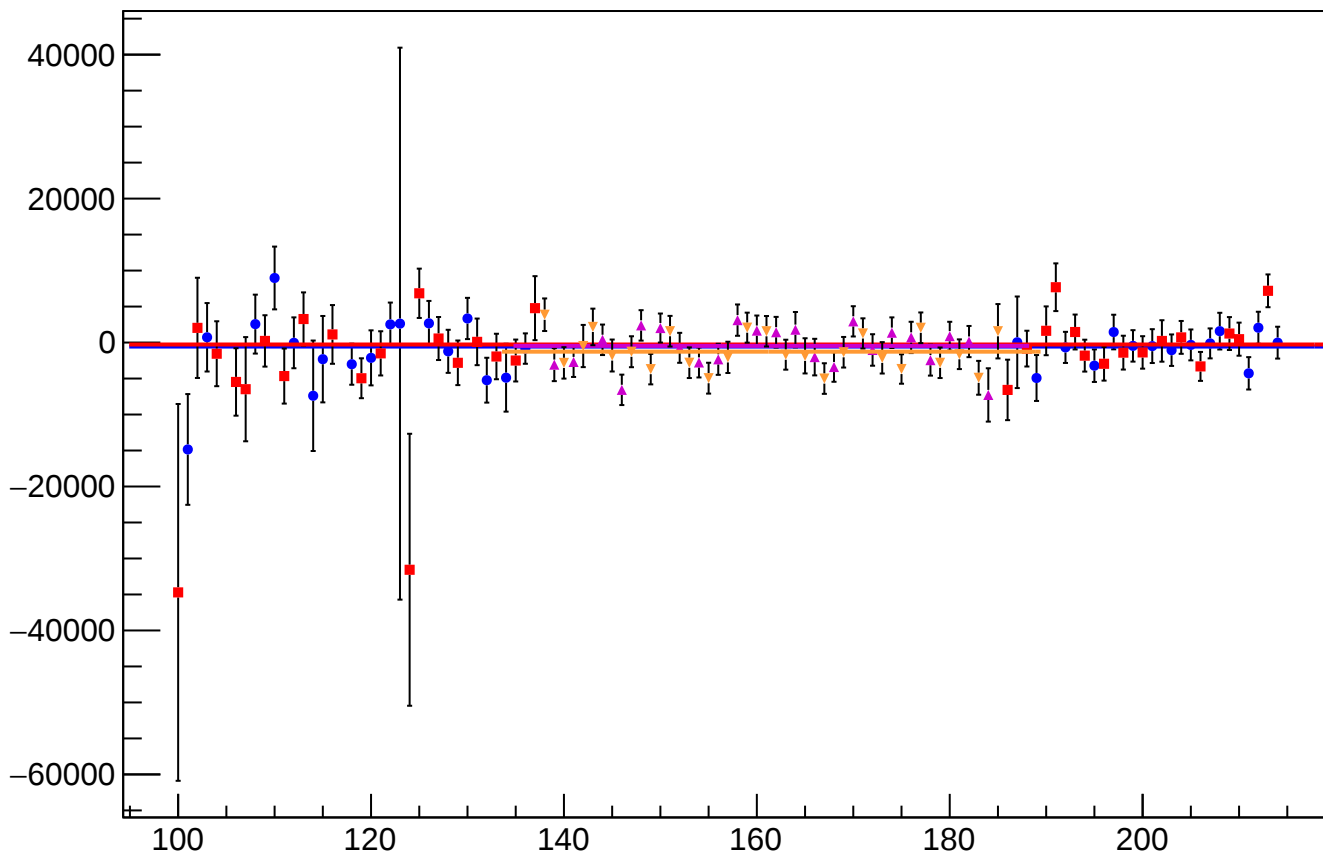
Right: 686.095 $\pm$ 0.089 χ^2 /NDF: 7573847.0/64

In: 489.155 $\pm$ 0.063 χ^2 /NDF: 6780097.8/53

Out: 488.481 $\pm$ 0.062 χ^2 /NDF: 8354815.5/58

All: 488.815 $\pm$ 0.044 χ^2 /NDF: 15134971.6/111

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -556.145+/-511.692 χ^2/NDF : 26.8/30

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

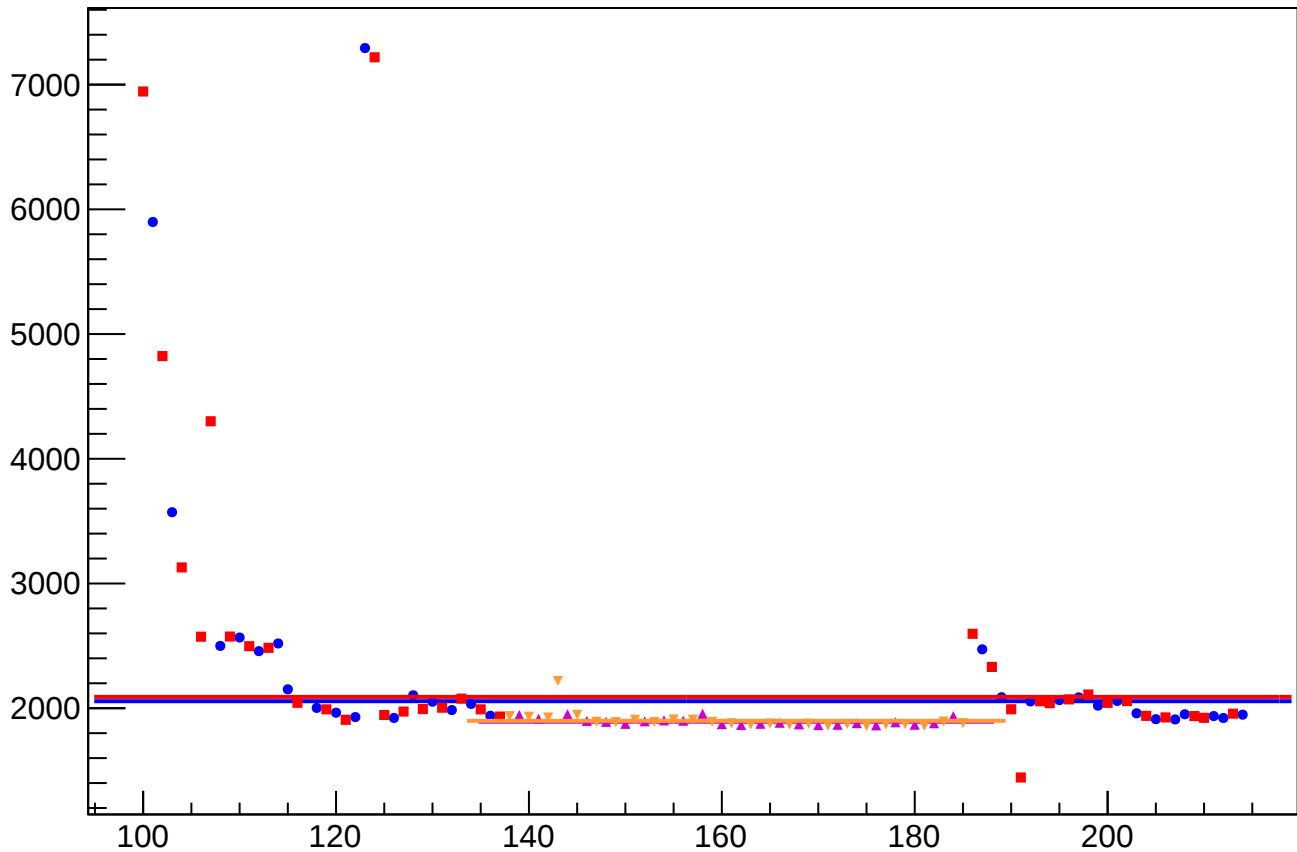
Right: -414.091+/-362.642 χ^2/NDF : 71.1/64

In: -503.798+/-339.577 χ^2/NDF :59.4/53

Out: -842.666+/-335.667 χ^2/NDF :77.2/58

All: -675.194+/-238.723 χ^2/NDF : 137.0/112

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2056.236+/-0.362 χ^2/NDF : 894128.5/30

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

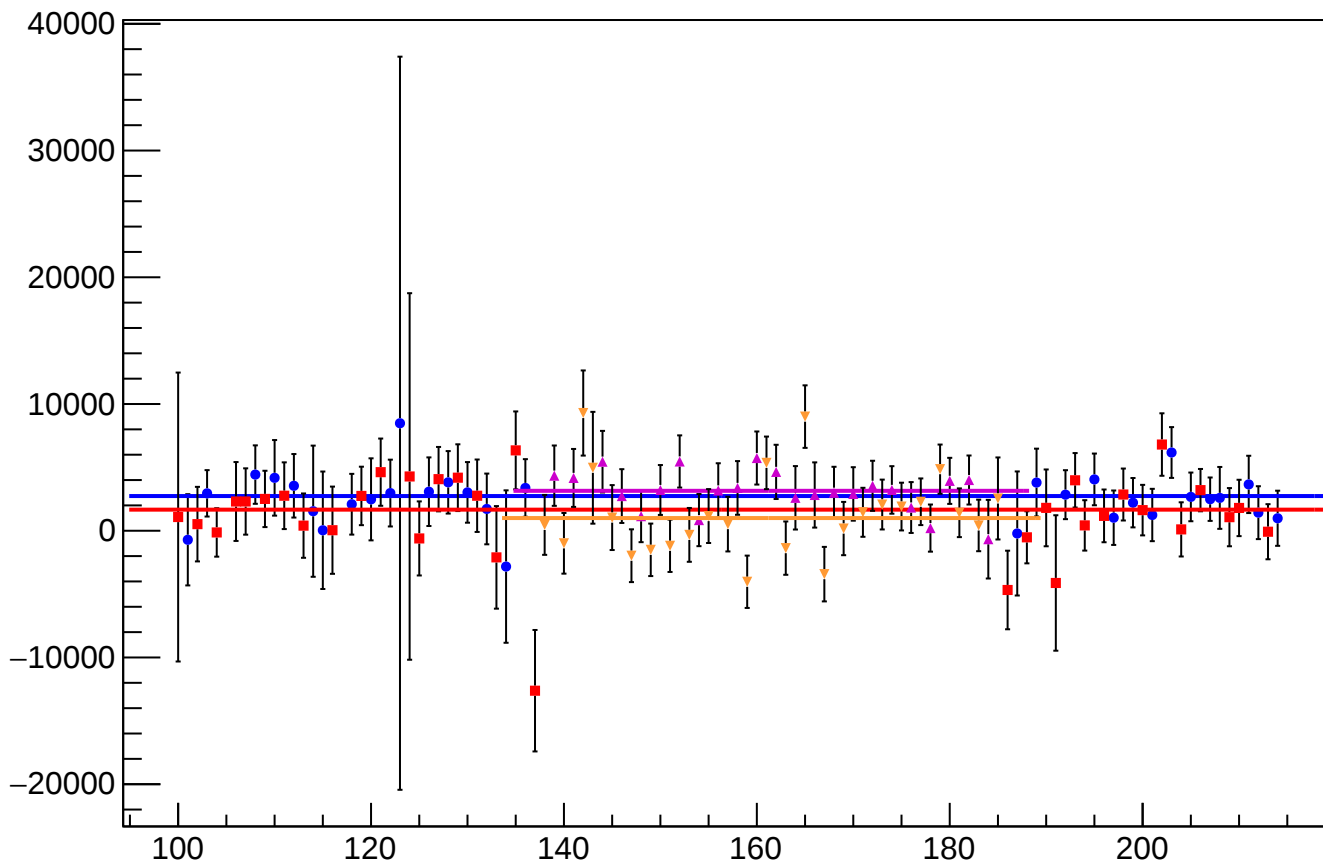
Right: 2073.498+/-0.256 χ^2/NDF : 2021152.5/64

In: 1964.160+/-0.240 χ^2/NDF : 1017277.9/53

Out: 1980.819+/-0.237 χ^2/NDF : 1321106.0/58

All: 1972.586+/-0.169 χ^2/NDF : 2340818.4/11

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2737.815 $\pm$ 437.292 χ^2 /NDF: 10.0/30

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

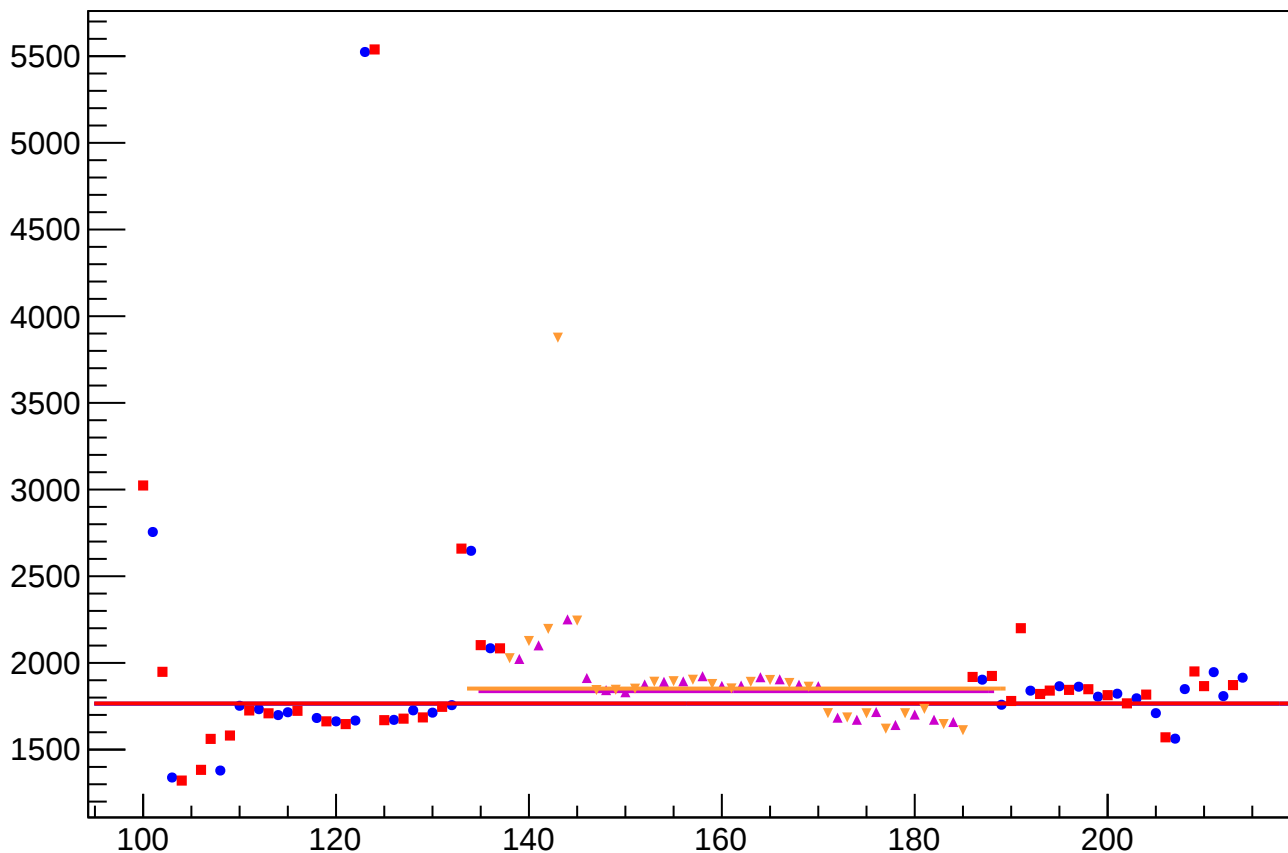
Right: 2195.729 $\pm$ 307.625 χ^2 /NDF: 45.9/64

In: 2942.316 $\pm$ 310.566 χ^2 /NDF:22.2/53

Out: 1334.792 $\pm$ 306.910 χ^2 /NDF:78.7/58

All: 2129.038 $\pm$ 218.299 χ^2 /NDF: 114.5/112

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1764.724+/-0.309 χ^2/NDF : 515271.4/30

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

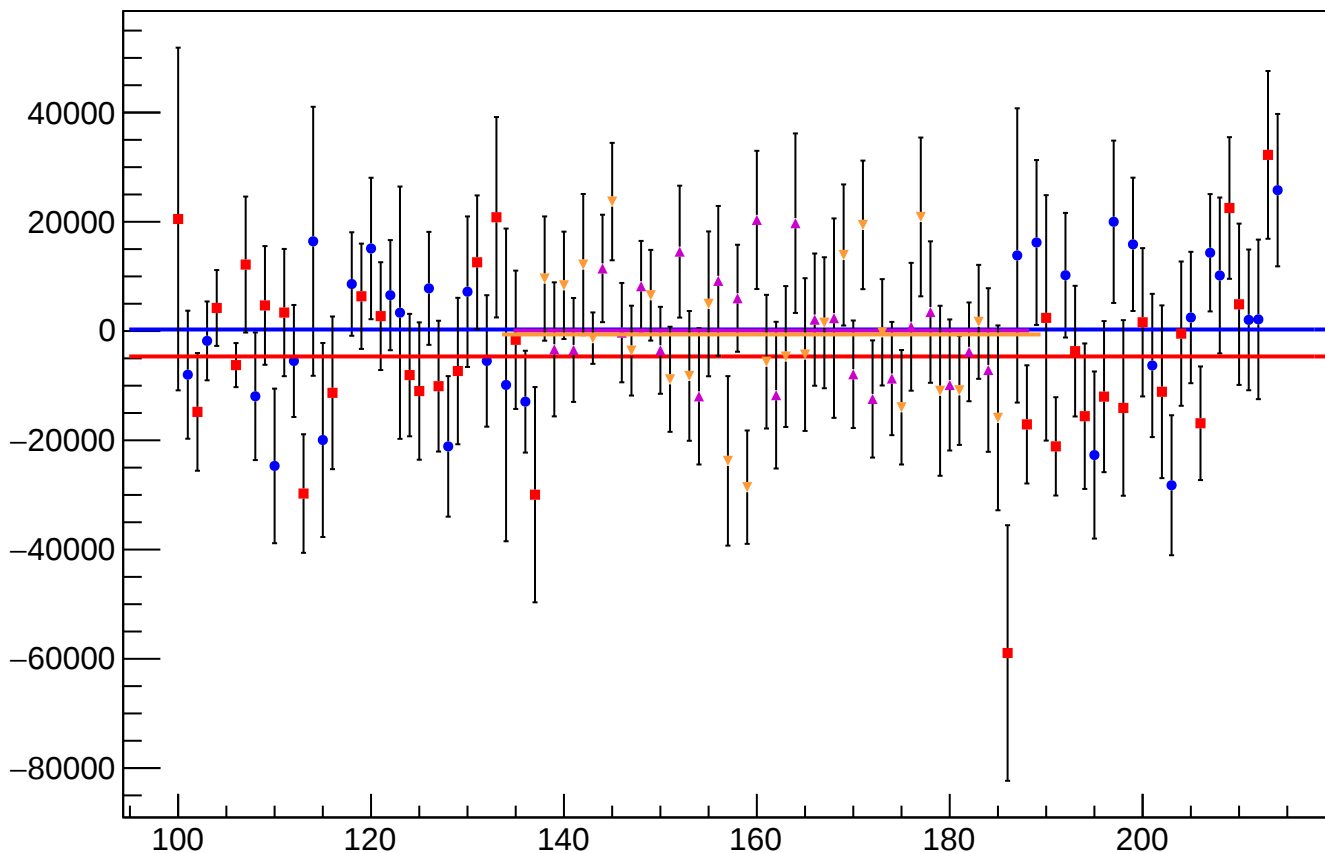
Right: 1765.460+/-0.218 χ^2/NDF : 1086191.5/64

In: 1800.620+/-0.220 χ^2/NDF : 742976.1/53

Out: 1808.831+/-0.217 χ^2/NDF : 1258919.6/58

All: 1804.774+/-0.154 χ^2/NDF : 2002602.9/11

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: 285.011 ± 2238.831 $\chi^2/\text{NDF}: 33.8/30$

Left Out: -619.372 ± 2069.686 $\chi^2/\text{NDF}: 30.1/24$

Right Out: -4650.404 ± 1890.727 $\chi^2/\text{NDF}: 43.9/33$

Left In: 93.334 ± 2293.826 $\chi^2/\text{NDF}: 14.6/22$

Left: -299.532 ± 1536.638 $\chi^2/\text{NDF}: 44.8/47$

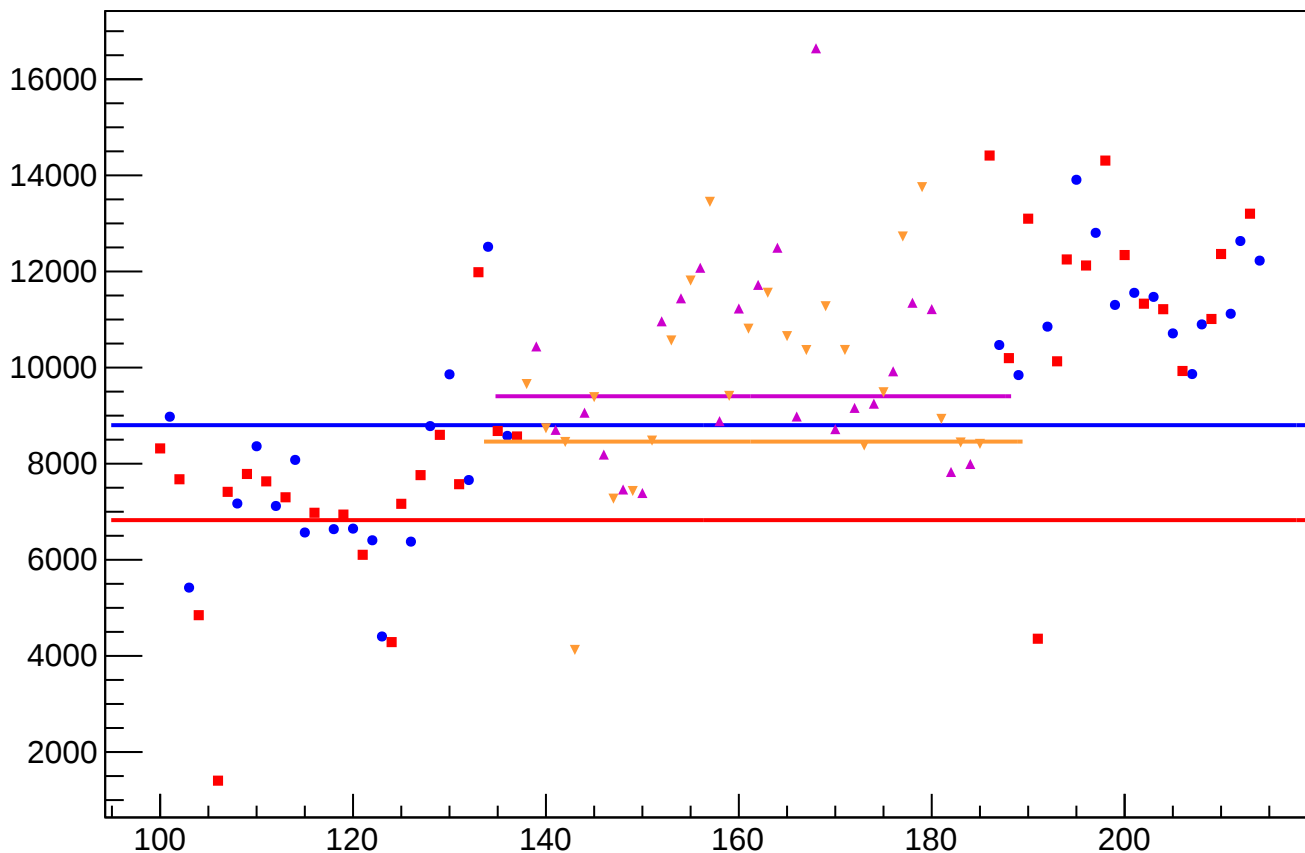
Right: -2595.796 ± 1444.521 $\chi^2/\text{NDF}: 80.6/64$

In: 191.498 ± 1602.182 $\chi^2/\text{NDF}: 48.4/53$

Out: -2816.668 ± 1395.934 $\chi^2/\text{NDF}: 76.1/58$

All: -1518.550 ± 1052.490 $\chi^2/\text{NDF}: 126.6/111$

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8801.752+/-1.583 χ^2/NDF : 2232182.2/30

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

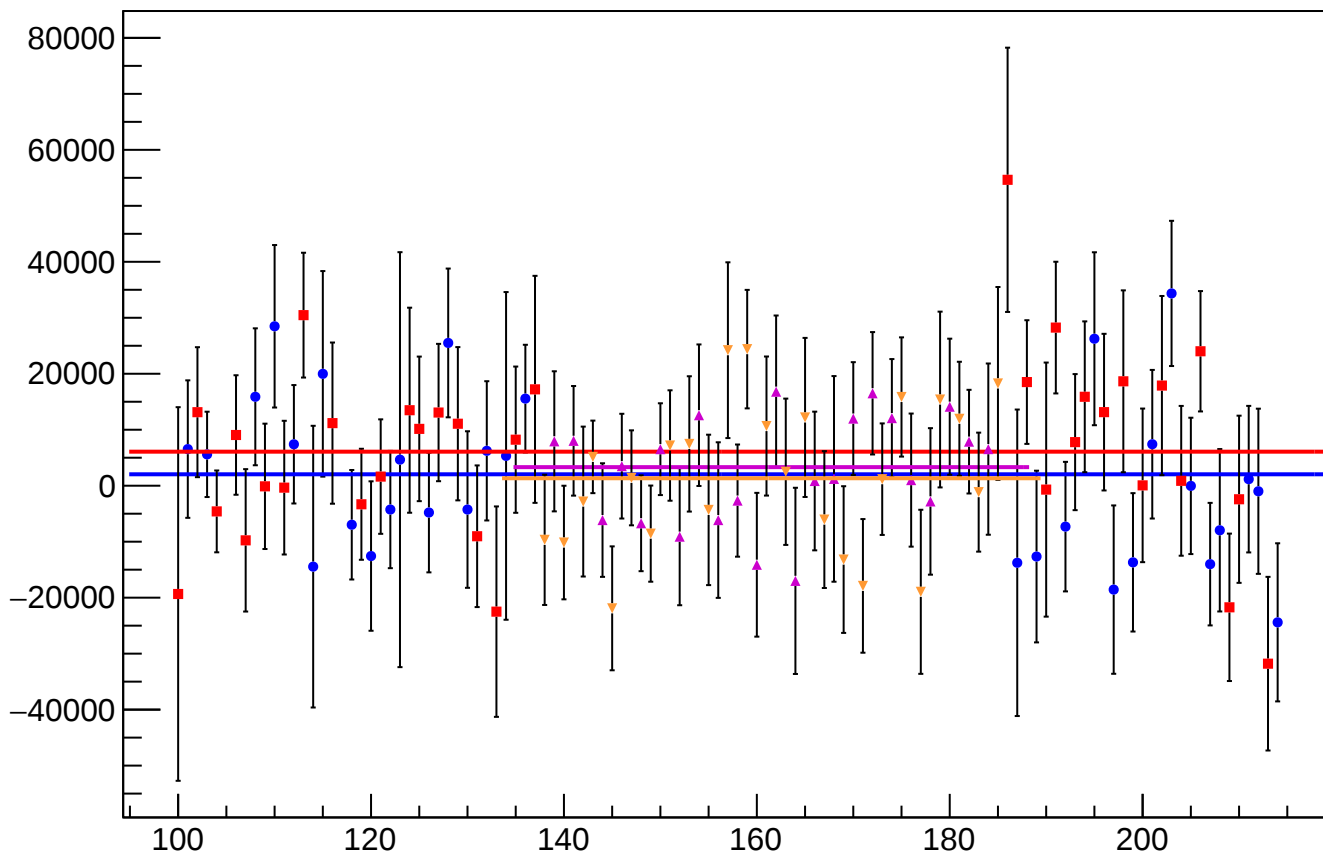
Right: 7648.289+/-1.021 χ^2/NDF : 11004420.9/64

In: 9095.317+/-1.133 χ^2/NDF : 3445313.5/53

Out: 7569.096+/-0.987 χ^2/NDF : 11629720.7/58

All: 8227.708+/-0.744 χ^2/NDF : 16106719.8/100

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2040.319+/-2307.832 χ^2/NDF : 35.3/30

Left Out: 1332.828+/-2213.733 χ^2/NDF : 28.0/24

Right Out: 6080.419+/-2202.608 χ^2/NDF : 41.1/33

Left In: 3316.909+/-2344.543 χ^2/NDF : 13.7/22

Left: 2267.978+/-1609.604 χ^2/NDF : 42.2/47

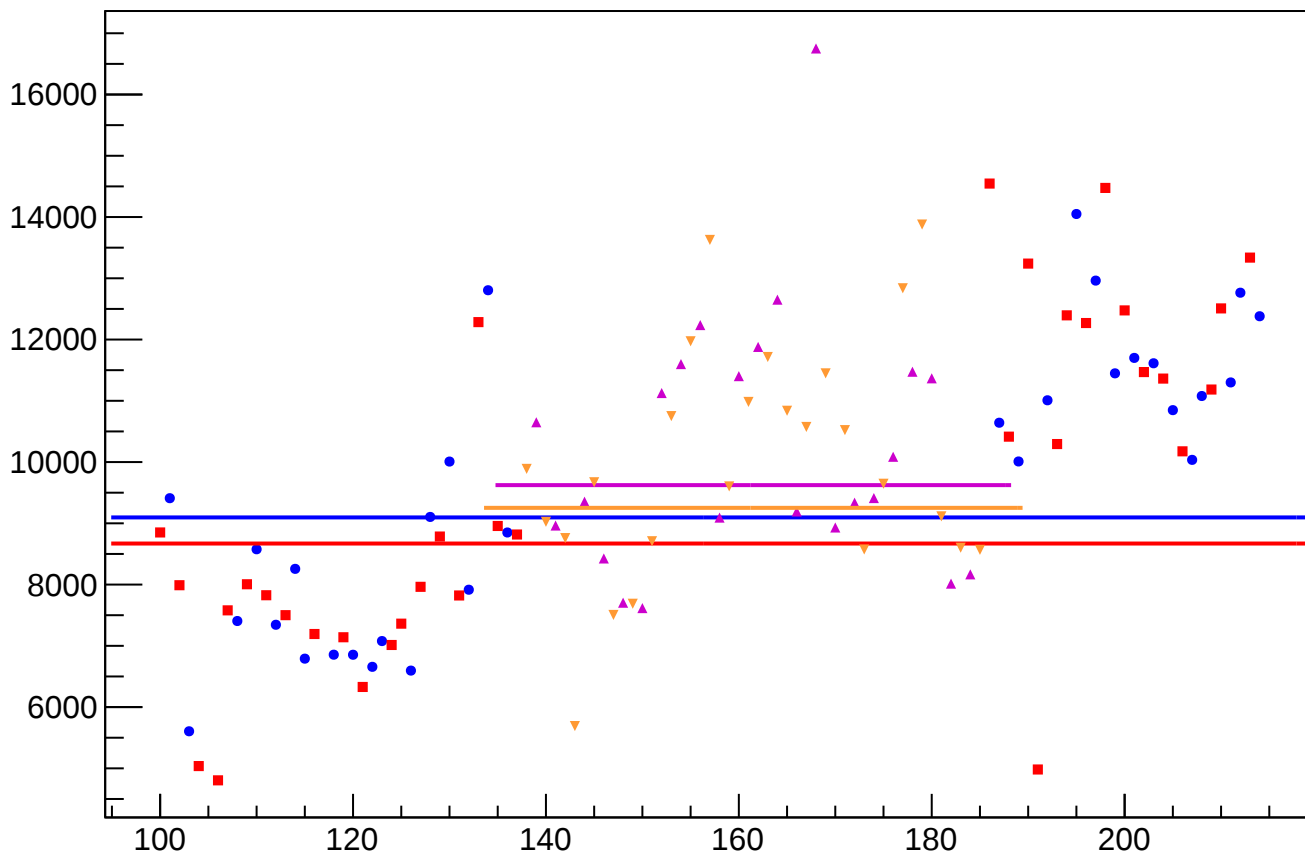
Right: 4154.569+/-1593.380 χ^2/NDF : 77.9/64

In: 2668.541+/-1644.709 χ^2/NDF : 49.2/53

Out: 3718.583+/-1561.398 χ^2/NDF : 71.4/58

All: 3220.829+/-1132.382 χ^2/NDF : 120.8/112

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9096.295+/-1.632 χ^2/NDF : 2008126.9/30

Left Out: 9252.712+/-1.565 χ^2/NDF : 1597668.9/24

Right Out: 8670.060+/-1.557 χ^2/NDF : 2868828.6/33

Left In: 9623.485+/-1.658 χ^2/NDF : 1069924.0/22

Left: 9427.467+/-1.138 χ^2/NDF : 2694036.4/47

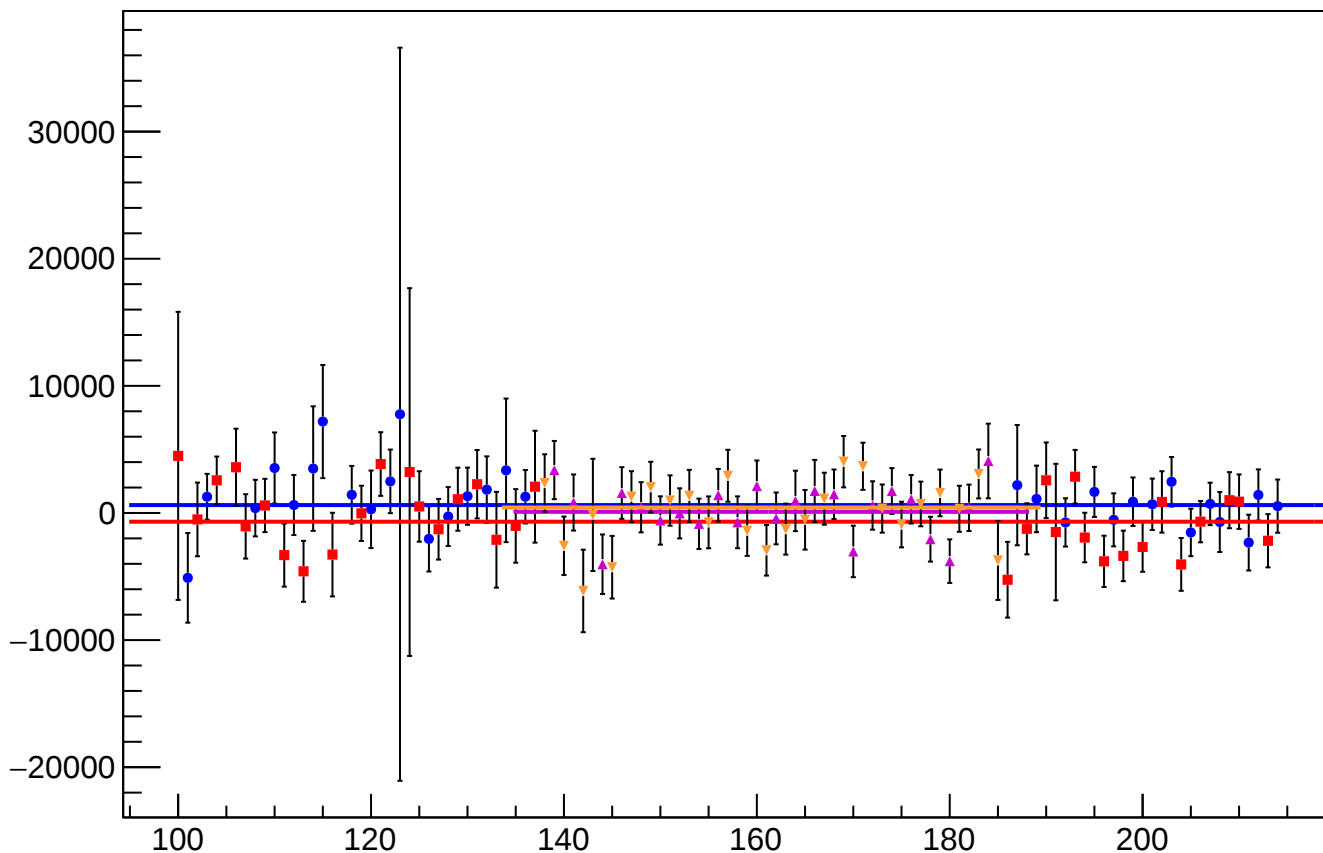
Right: 8873.222+/-1.127 χ^2/NDF : 4912660.7/64

In: 9355.727+/-1.163 χ^2/NDF : 3129410.9/53

Out: 8959.890+/-1.104 χ^2/NDF : 4536126.9/58

All: 9147.521+/-0.801 χ^2/NDF : 7726472.7/111

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 620.883 ± 421.148 $\chi^2/\text{NDF}: 14.8/30$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -686.840 ± 417.108 $\chi^2/\text{NDF}: 32.8/33$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

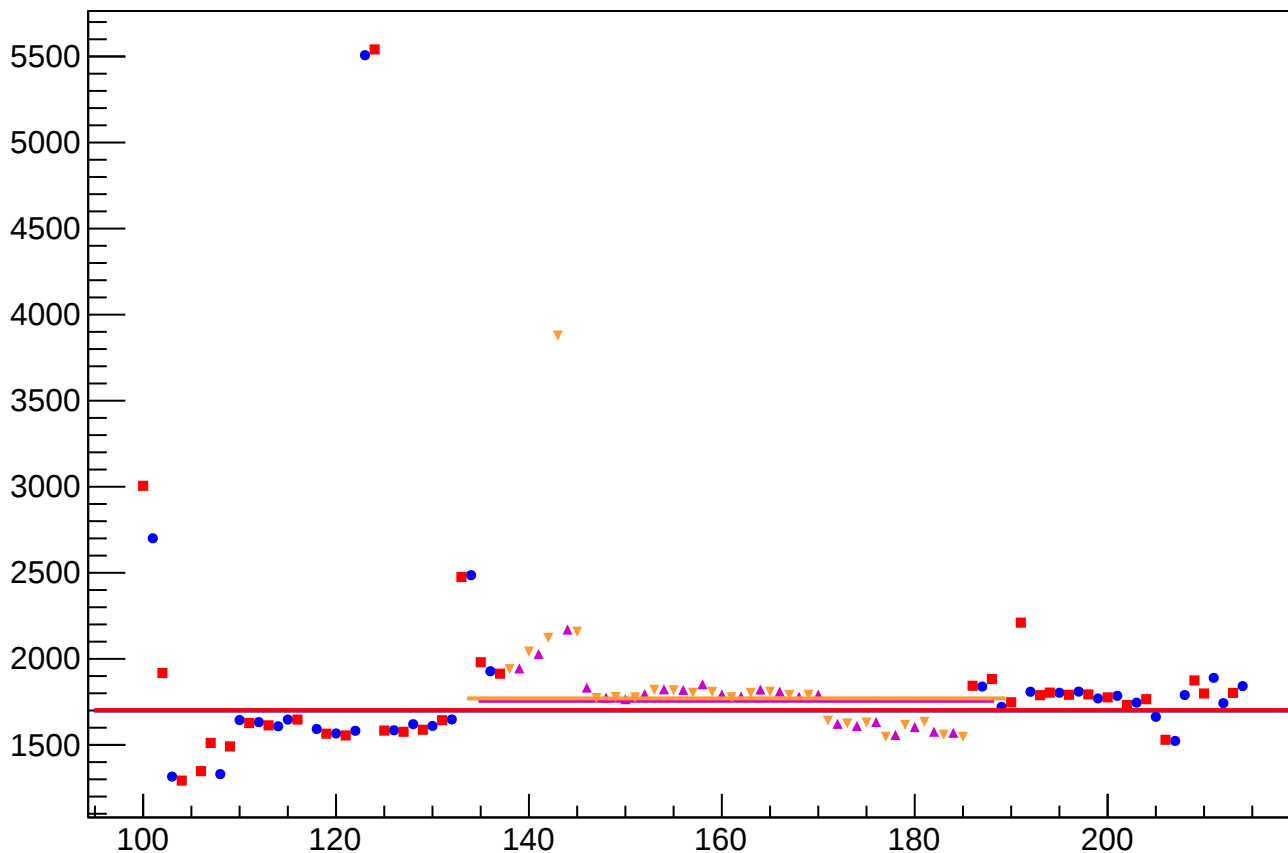
Right: -39.280 ± 296.358 $\chi^2/\text{NDF}: 52.4/64$

In: 355.139 ± 298.082 $\chi^2/\text{NDF}: 36.5/53$

Out: -127.718 ± 294.682 $\chi^2/\text{NDF}: 65.1/58$

All: 110.941 ± 209.563 $\chi^2/\text{NDF}: 102.9/112$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1699.685 $\pm$ 0.298 χ^2 /NDF: 508605.3/30

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

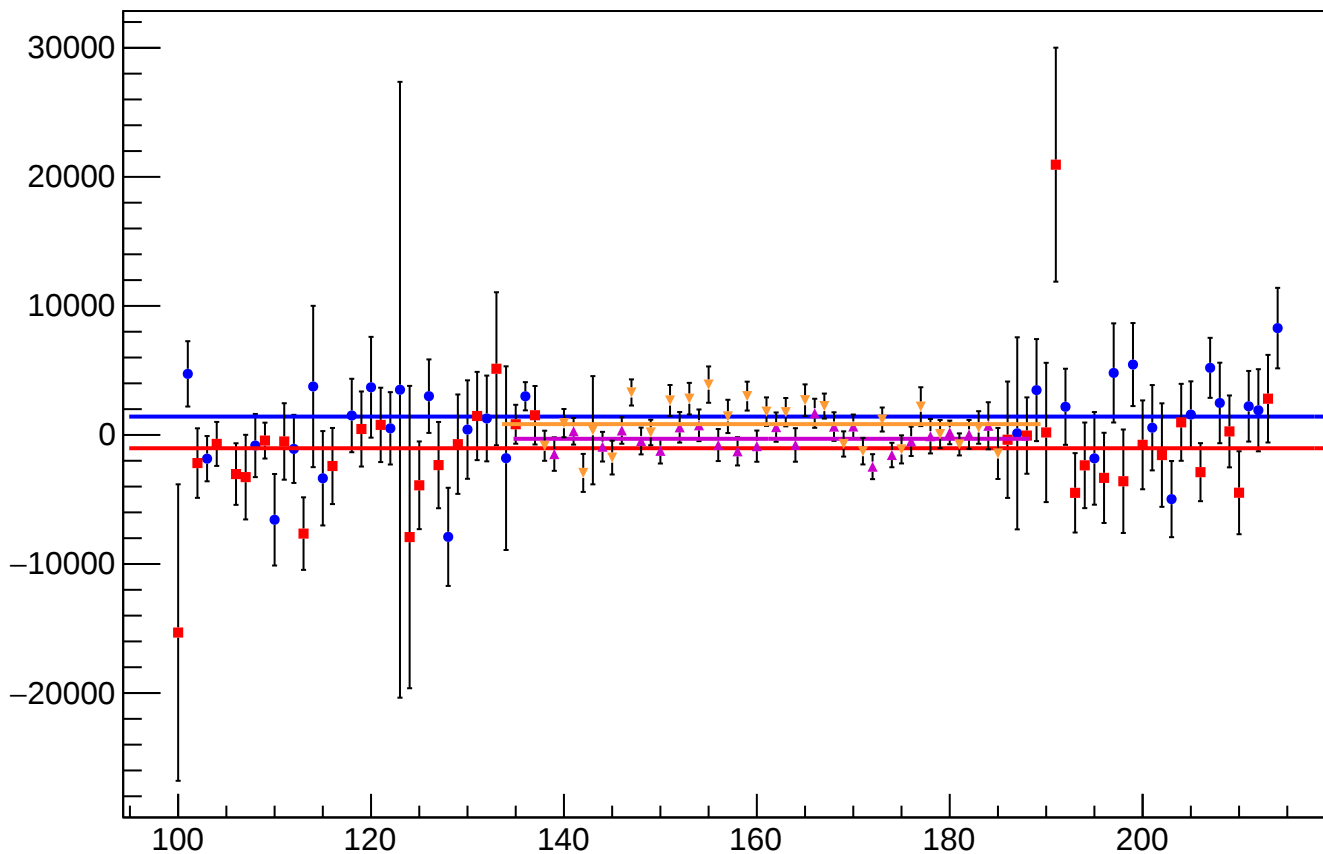
Right: 1700.807 $\pm$ 0.210 χ^2 /NDF: 1087795.0/64

In: 1728.100 $\pm$ 0.211 χ^2 /NDF: 749926.1/53

Out: 1736.205 $\pm$ 0.208 χ^2 /NDF: 1305697.7/58

All: 1732.199 $\pm$ 0.148 χ^2 /NDF: 2056371.7/11

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1423.216 ± 505.336 $\chi^2/\text{NDF}: 38.9/30$

Left Out: 839.344 ± 230.465 $\chi^2/\text{NDF}: 54.4/24$

Right Out: -1029.372 ± 488.666 $\chi^2/\text{NDF}: 27.3/33$

Left In: -298.801 ± 231.400 $\chi^2/\text{NDF}: 18.3/22$

Left: 272.574 ± 163.293 $\chi^2/\text{NDF}: 84.9/47$

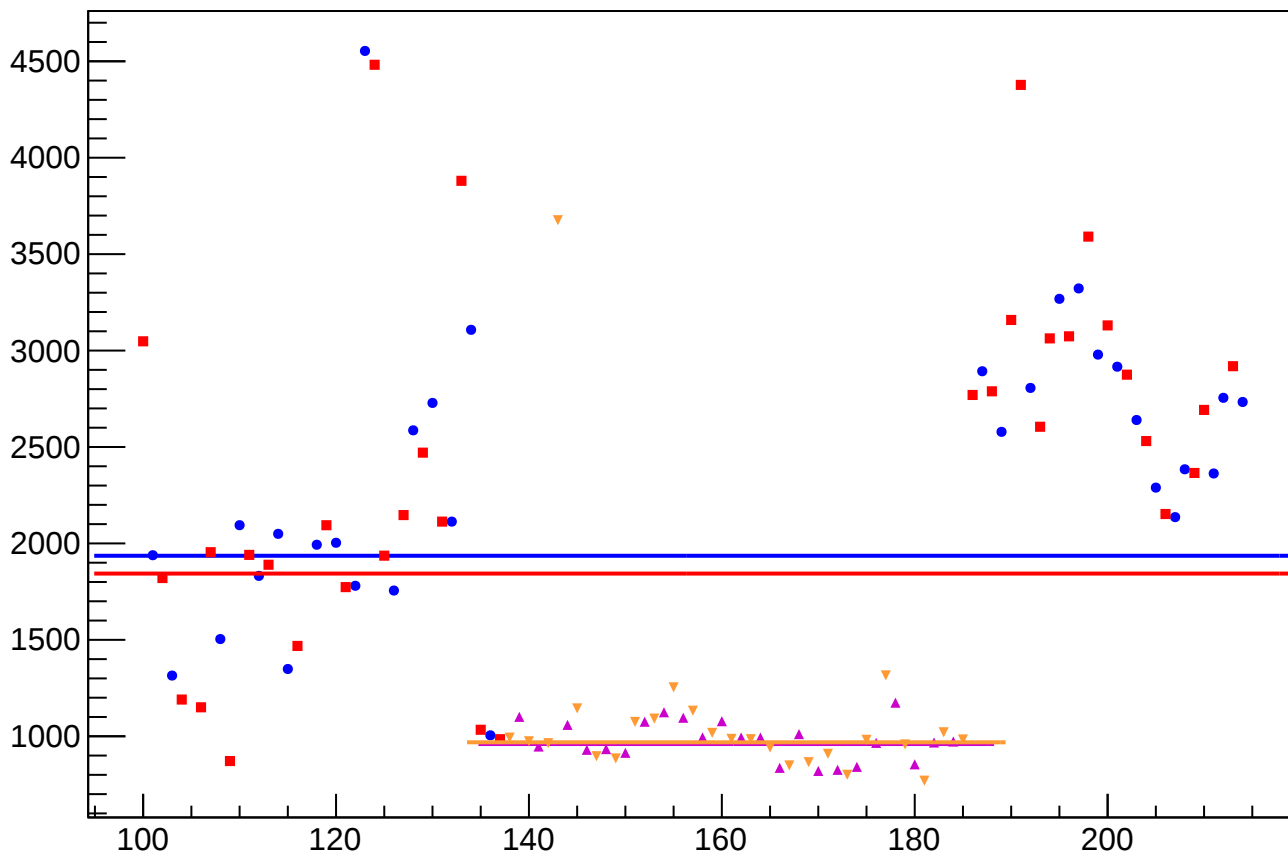
Right: 155.803 ± 351.284 $\chi^2/\text{NDF}: 78.4/64$

In: -0.310 ± 210.391 $\chi^2/\text{NDF}: 66.9/53$

Out: 499.322 ± 208.446 $\chi^2/\text{NDF}: 93.7/58$

All: 251.825 ± 148.076 $\chi^2/\text{NDF}: 163.4/112$

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1935.970+/-0.357 χ^2/NDF : 3768811.7/30

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

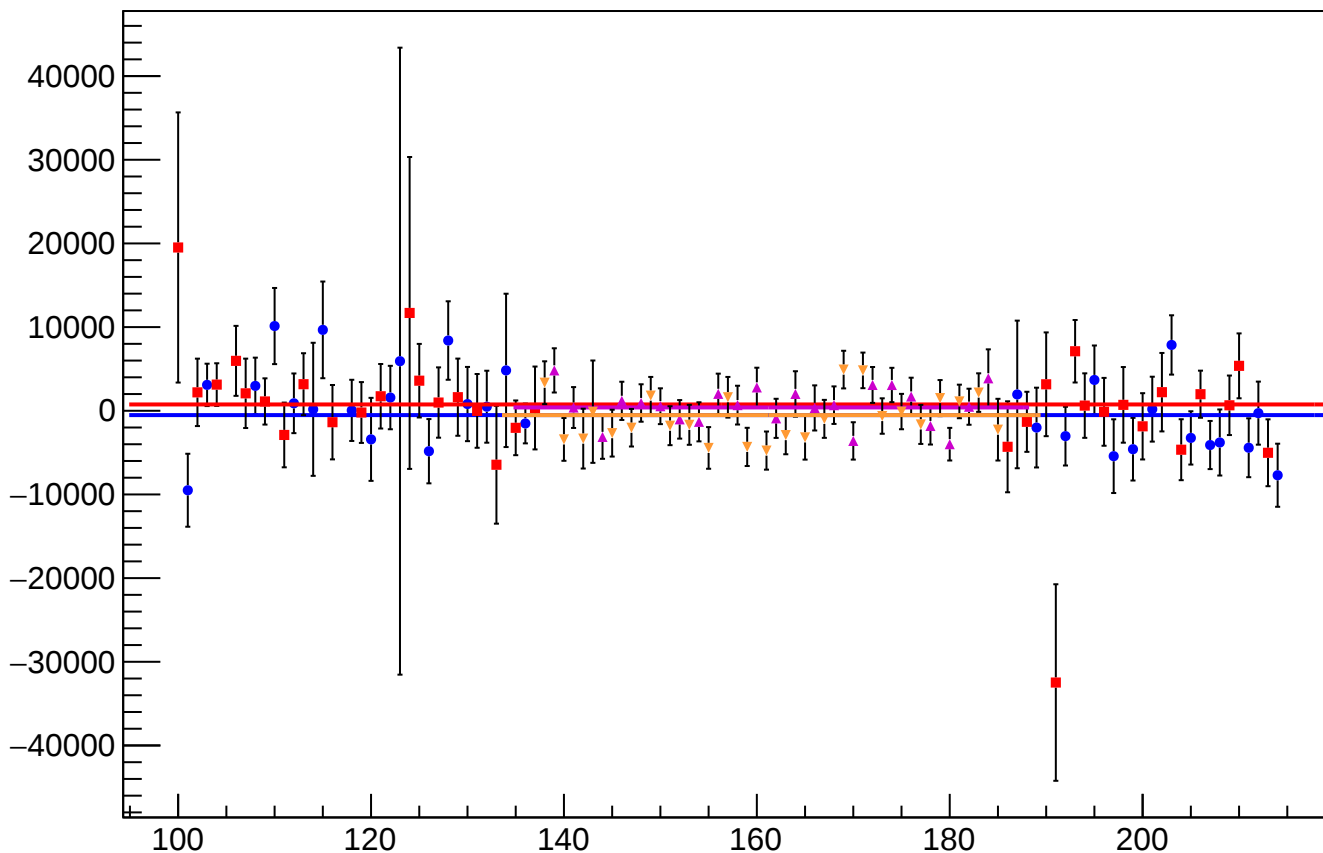
Right: 1888.279+/-0.248 χ^2/NDF : 9152728.3/64

In: 1129.011+/-0.149 χ^2/NDF : 10309445.8/53

Out: 1127.917+/-0.147 χ^2/NDF : 11988448.4/58

All: 1128.459+/-0.105 χ^2/NDF : 22297921.5/115

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -516.857 ± 701.441 χ^2/NDF : 39.9/30

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

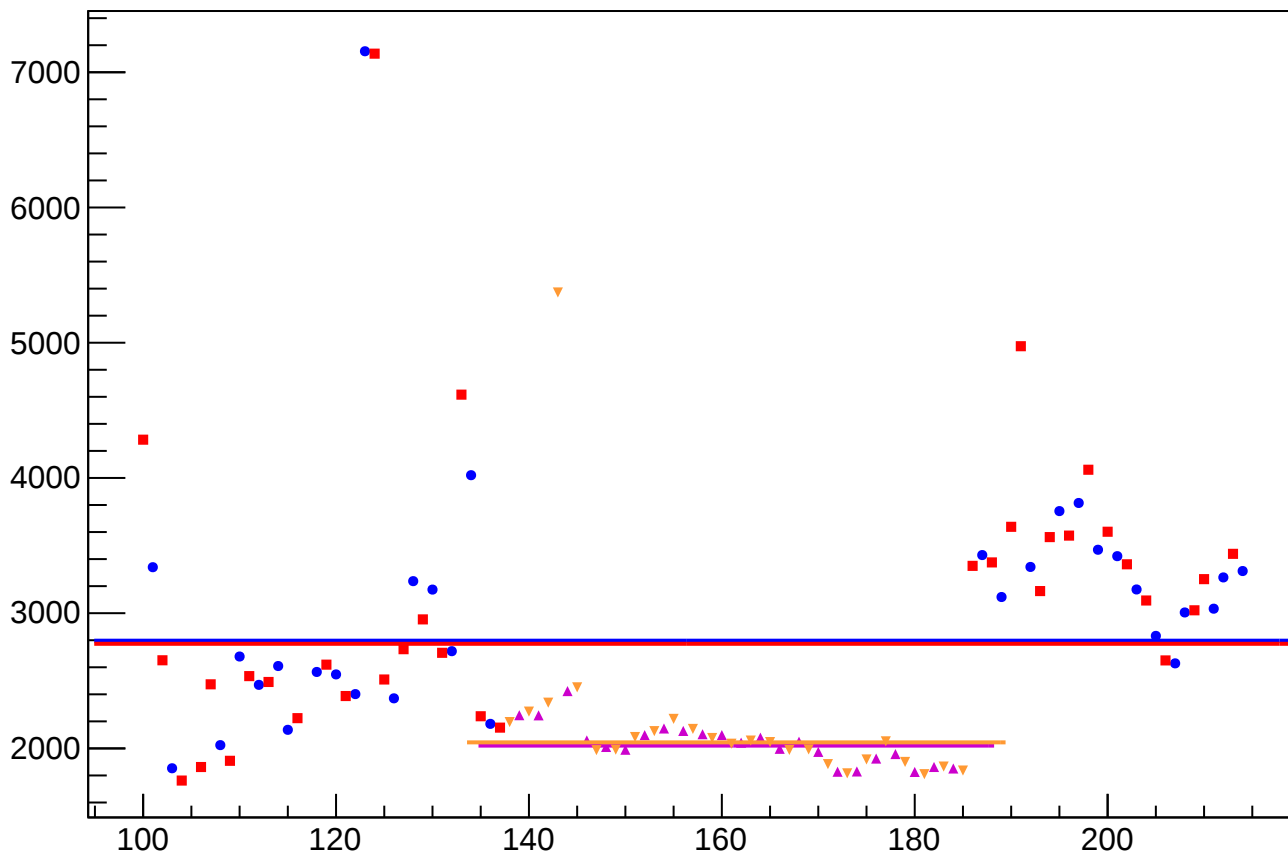
Right: 126.164 ± 493.372 χ^2/NDF : 68.7/64

In: 101.646 ± 398.953 χ^2/NDF : 62.9/53

Out: -103.988 ± 395.616 χ^2/NDF : 63.4/58

All: -2.035 ± 280.915 χ^2/NDF : 126.4/112

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2796.601 $\pm$ 0.496 χ^2 /NDF: 1259286.1/30

Left Out: 2044.722 $\pm$ 0.340 χ^2 /NDF: 788703.5/24

Right Out: 2773.623 $\pm$ 0.491 χ^2 /NDF: 1818654.1/33

Left In: 2020.802 $\pm$ 0.343 χ^2 /NDF: 173502.0/22

Left: 2032.850 $\pm$ 0.242 χ^2 /NDF: 964655.5/47

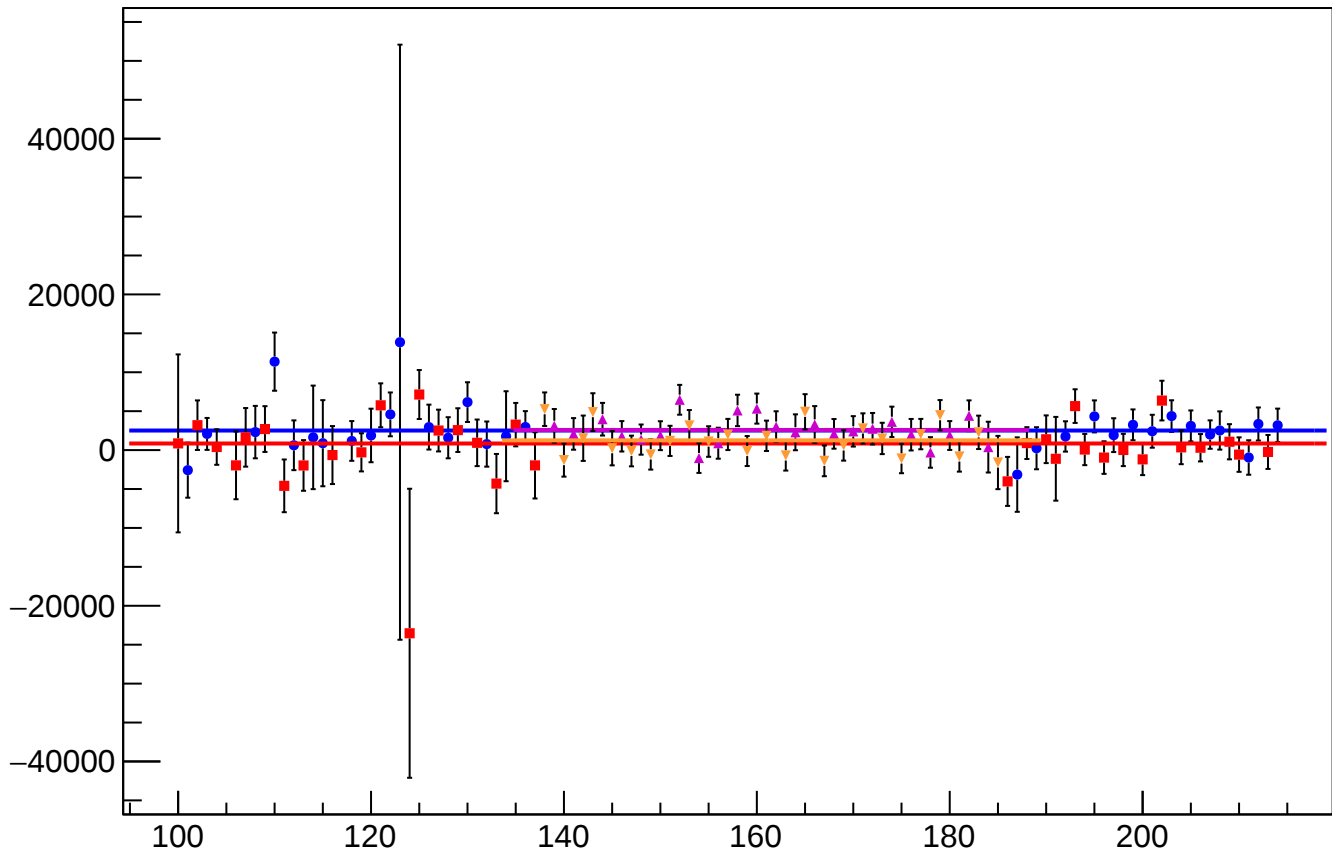
Right: 2784.991 $\pm$ 0.349 χ^2 /NDF: 3079024.7/64

In: 2271.766 $\pm$ 0.282 χ^2 /NDF: 3087880.5/53

Out: 2281.529 $\pm$ 0.280 χ^2 /NDF: 4096460.2/58

All: 2276.688 $\pm$ 0.199 χ^2 /NDF: 7184944.6/111

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2512.586 $\pm$ 457.554 χ^2 /NDF: 18.7/30

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF: 23.0/24

Right Out: 847.353 $\pm$ 457.903 χ^2 /NDF: 32.7/33

Left In: 2586.937 $\pm$ 421.510 χ^2 /NDF: 17.5/22

Left: 1903.961 $\pm$ 294.810 χ^2 /NDF: 45.6/47

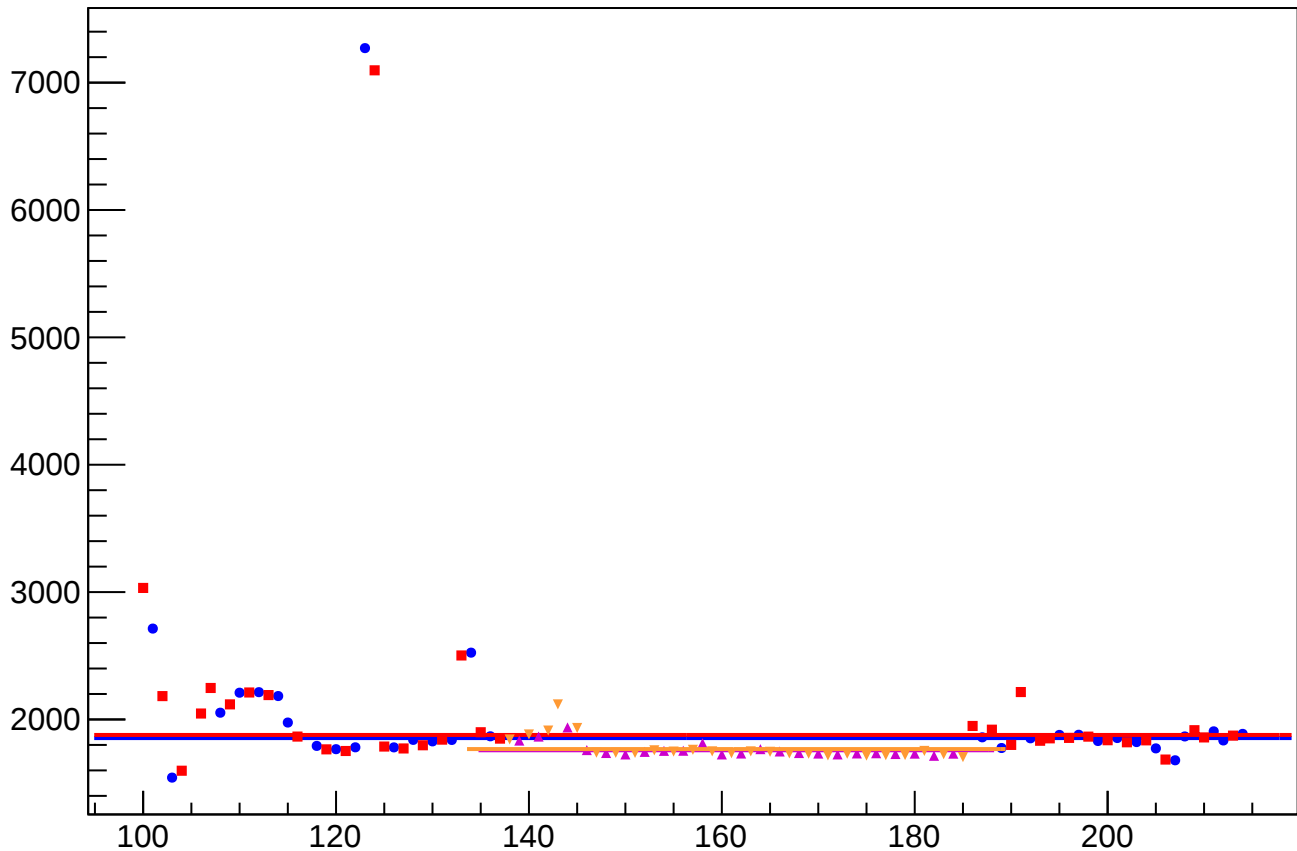
Right: 1680.604 $\pm$ 323.663 χ^2 /NDF: 58.1/64

In: 2552.805 $\pm$ 310.013 χ^2 /NDF: 36.2/53

Out: 1069.584 $\pm$ 306.474 χ^2 /NDF: 56.2/58

All: 1802.680 $\pm$ 217.950 χ^2 /NDF: 103.9/112

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1853.770+/-0.324 χ^2/NDF : 319448.7/30

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

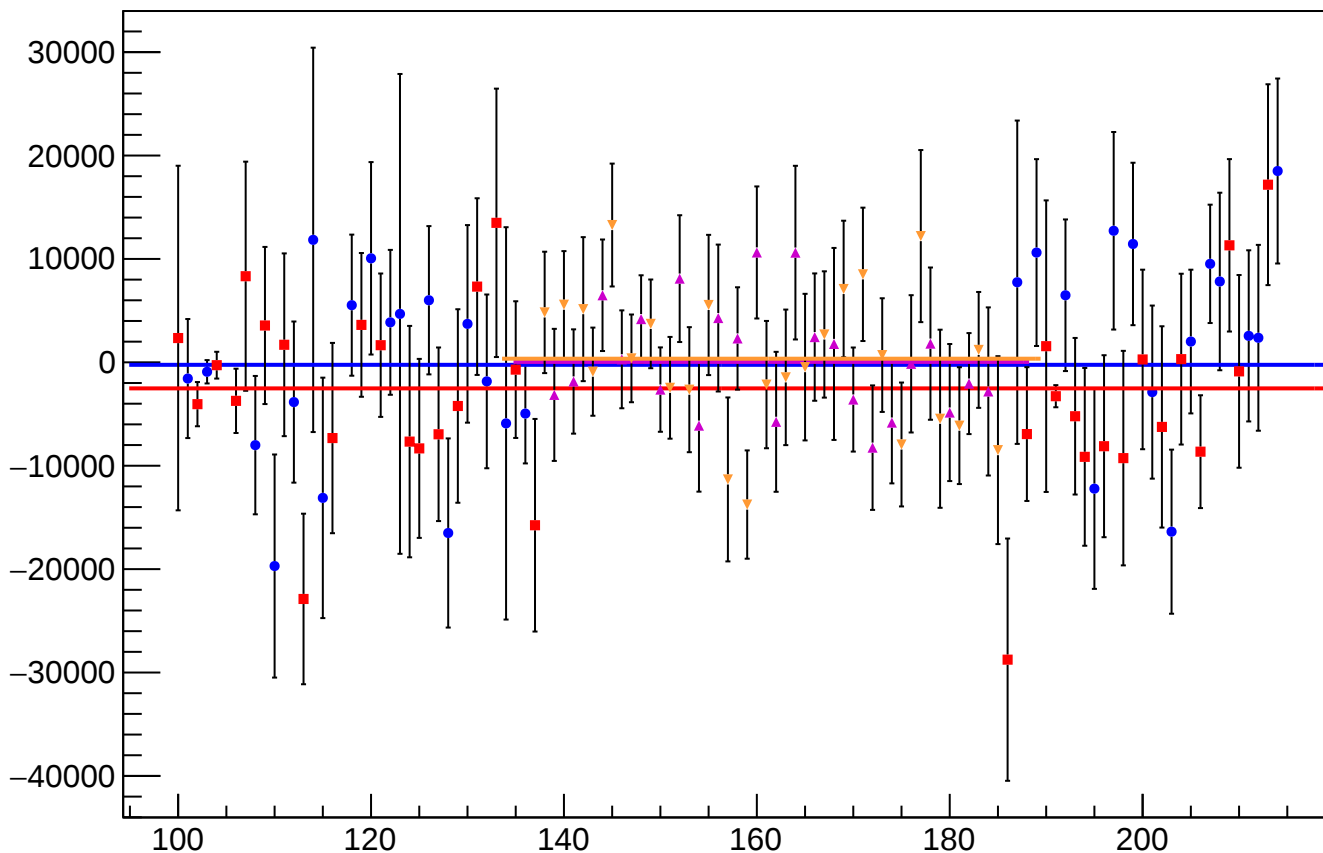
Right: 1866.062+/-0.229 χ^2/NDF : 732120.7/64

In: 1802.006+/-0.219 χ^2/NDF : 396575.9/53

Out: 1817.202+/-0.217 χ^2/NDF : 552194.8/58

All: 1809.693+/-0.154 χ^2/NDF : 951201.7/112

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: -240.927 ± 898.989 χ^2/NDF : 35.2/30

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

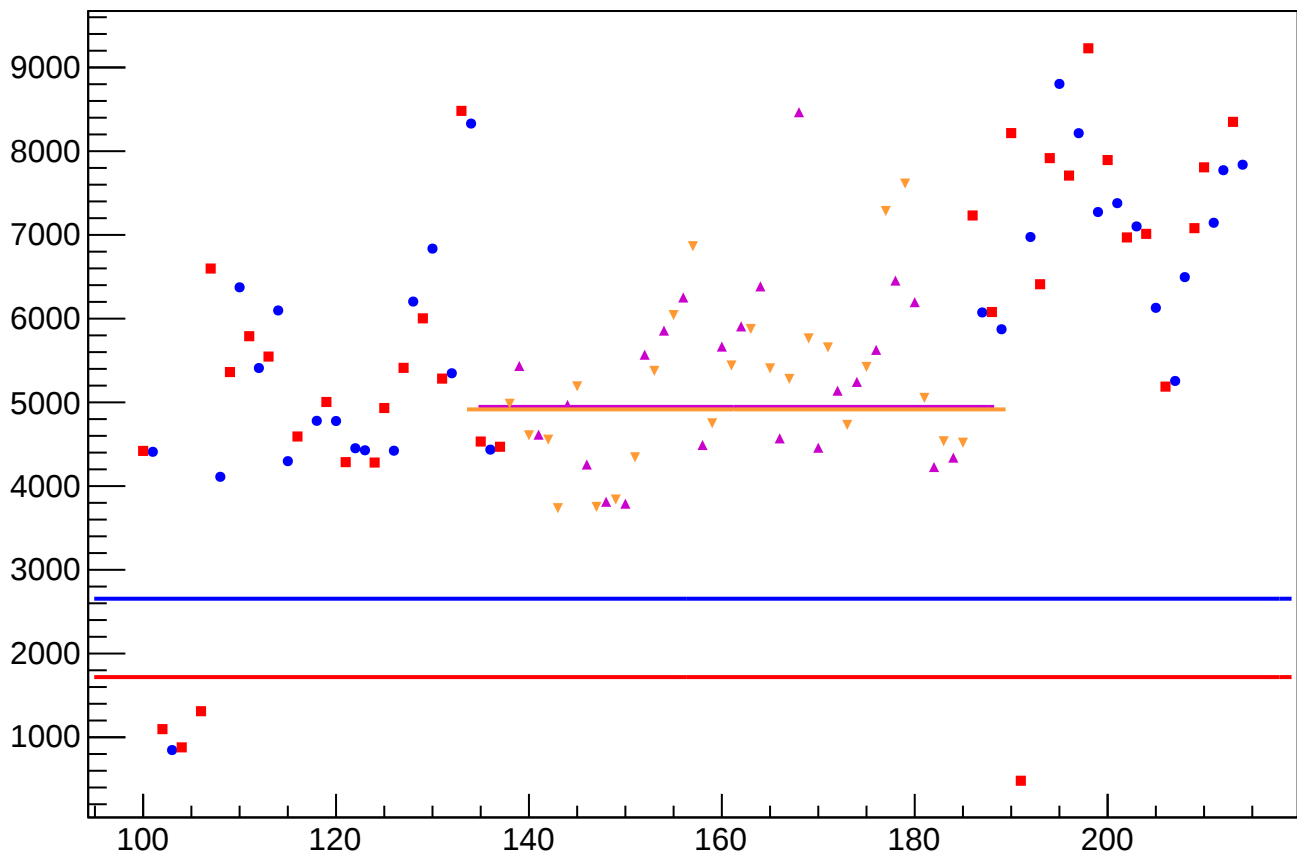
Right: -1698.981 ± 539.520 χ^2/NDF : 74.1/64

In: -140.522 ± 721.087 χ^2/NDF : 51.3/53

Out: -1803.655 ± 584.350 χ^2/NDF : 67.1/58

All: -1144.402 ± 453.994 χ^2/NDF : 121.6/112

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2654.859+/-0.636

χ^2/NDF : 15614227.9/30

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 2055.874+/-0.381

χ^2/NDF : 37372963.3/64

Right Out: 1718.698+/-0.477

χ^2/NDF : 20371063.6/33

In: 3471.864+/-0.510

χ^2/NDF : 21434456.1/53

Out: 2516.144+/-0.413

χ^2/NDF : 32766010.1/58

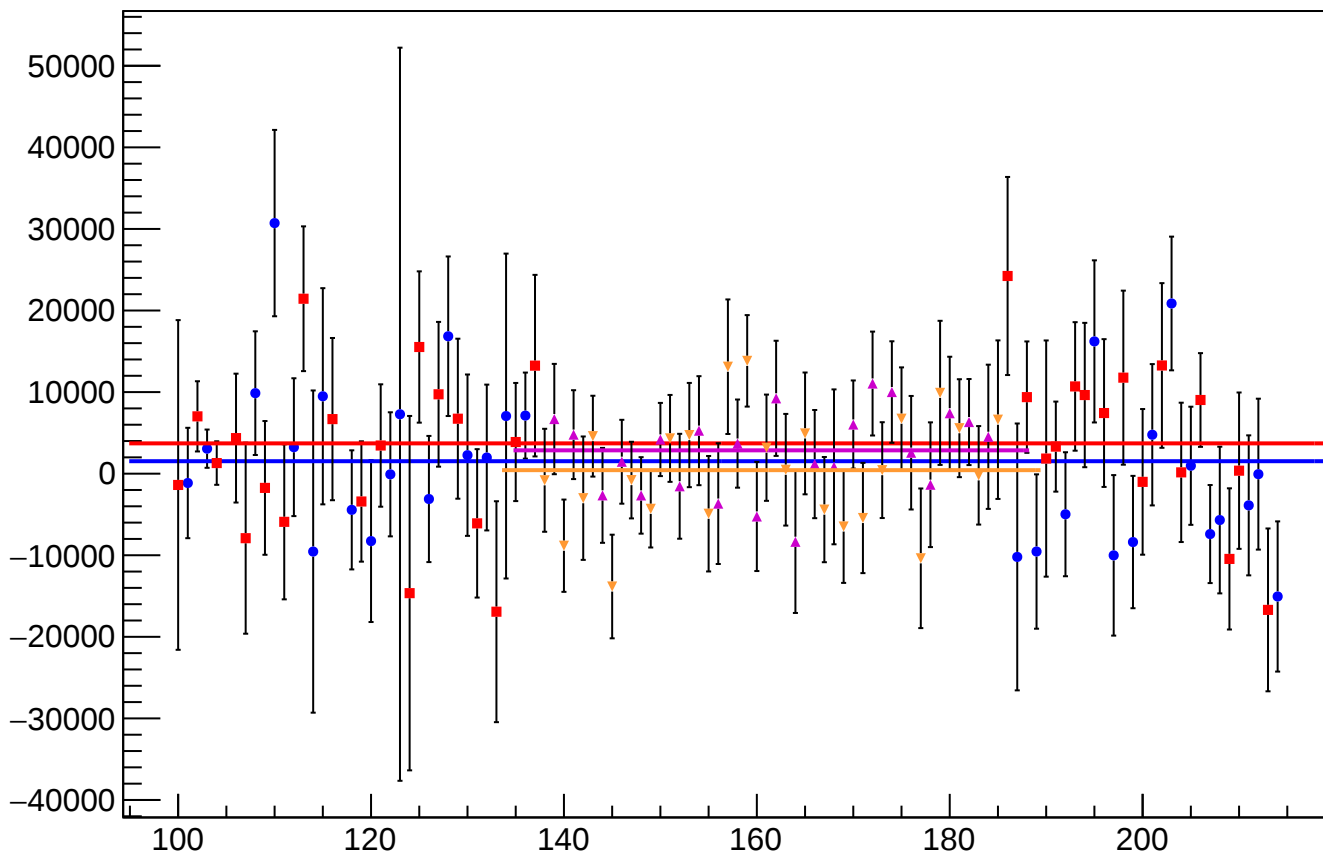
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2894.984+/-0.321

χ^2/NDF : 56321122.9/1

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1528.615+/-1314.856 χ^2/NDF : 34.7/30

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 3713.905+/-1287.685 χ^2/NDF : 30.8/33

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

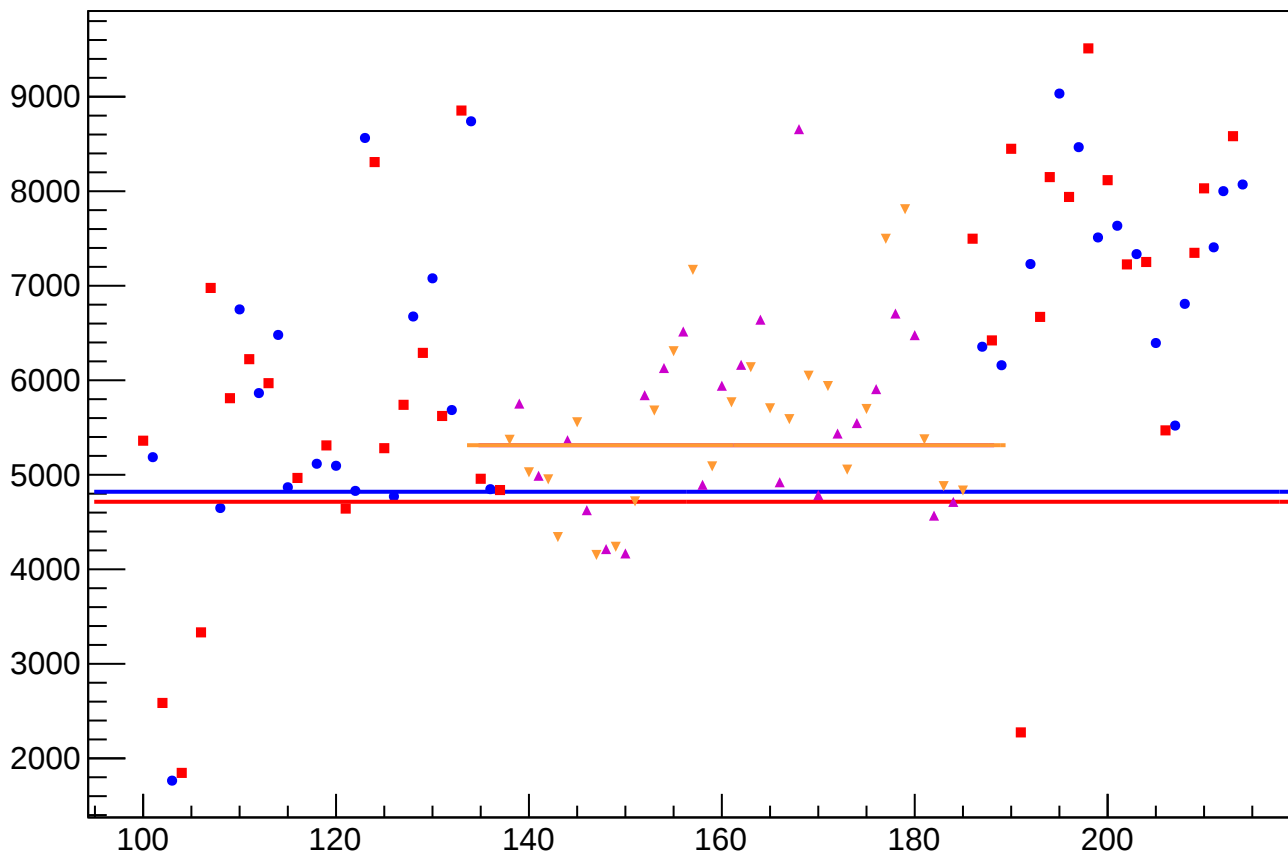
Right: 2644.072+/-919.987 χ^2/NDF : 66.9/64

In: 2205.939+/-921.676 χ^2/NDF : 48.1/53

Out: 2034.461+/-899.952 χ^2/NDF : 61.2/58

All: 2118.155+/-643.905 χ^2/NDF : 109.3/112

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4820.541 ± 0.930 $\chi^2/\text{NDF}: 6196546.1/30$

Left Out: 5313.008 ± 0.890 $\chi^2/\text{NDF}: 894369.8/24$

Right Out: 4714.573 ± 0.907 $\chi^2/\text{NDF}: 6637021.9/33$

Left In: 5312.861 ± 0.914 $\chi^2/\text{NDF}: 957400.7/22$

Left: 5312.937 ± 0.637 $\chi^2/\text{NDF}: 1851770.5/47$

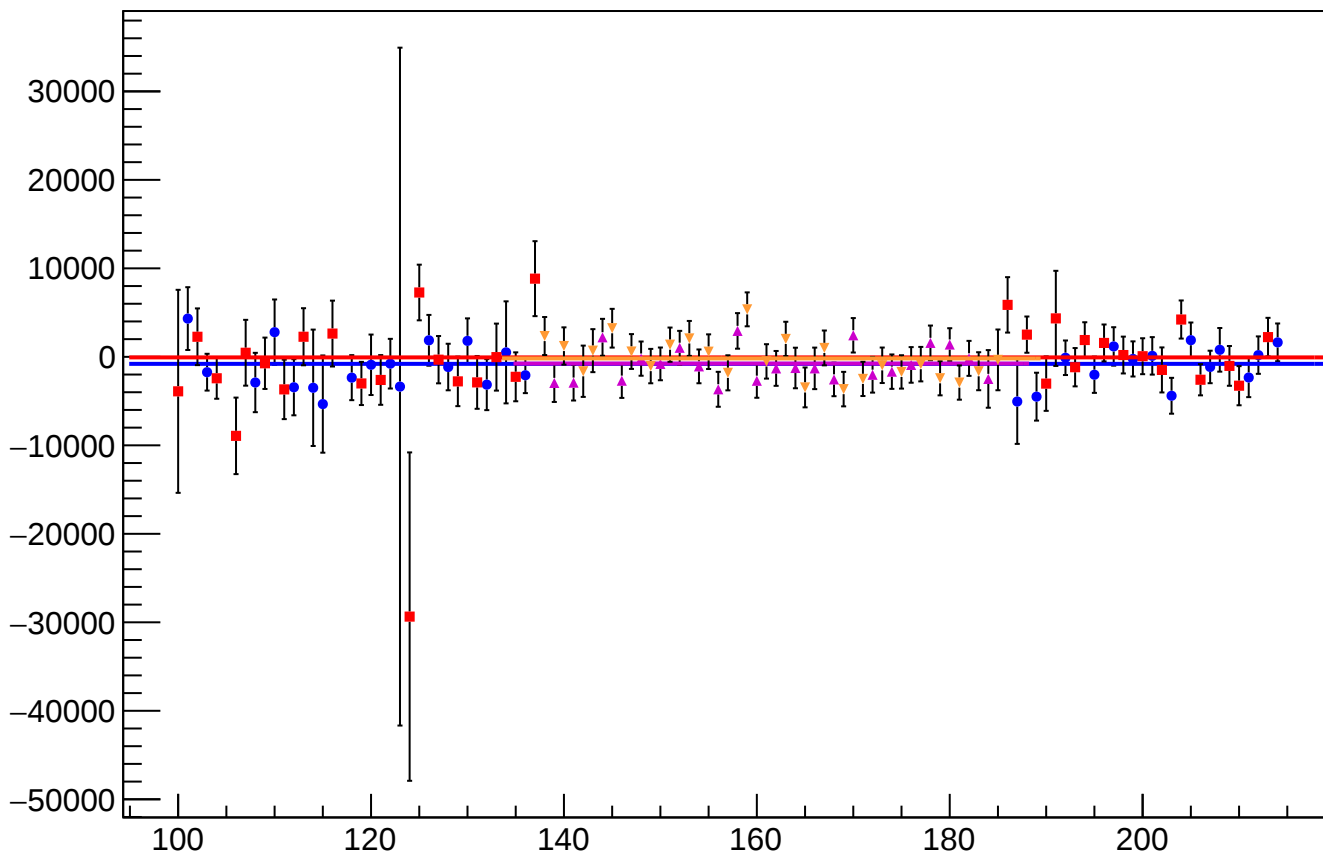
Right: 4766.223 ± 0.649 $\chi^2/\text{NDF}: 12840226.7/64$

In: 5070.955 ± 0.652 $\chi^2/\text{NDF}: 7296566.5/53$

Out: 5019.419 ± 0.635 $\chi^2/\text{NDF}: 7753332.8/58$

All: 5044.518 ± 0.455 $\chi^2/\text{NDF}: 15053106.9/112$

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -792.665 ± 457.180 χ^2/NDF : 20.2/30

Left Out: -179.794 ± 410.976 χ^2/NDF : 29.3/24

Right Out: -62.216 ± 457.462 χ^2/NDF : 43.6/33

Left In: -759.753 ± 419.905 χ^2/NDF : 20.3/22

Left: -463.542 ± 293.710 χ^2/NDF : 50.5/47

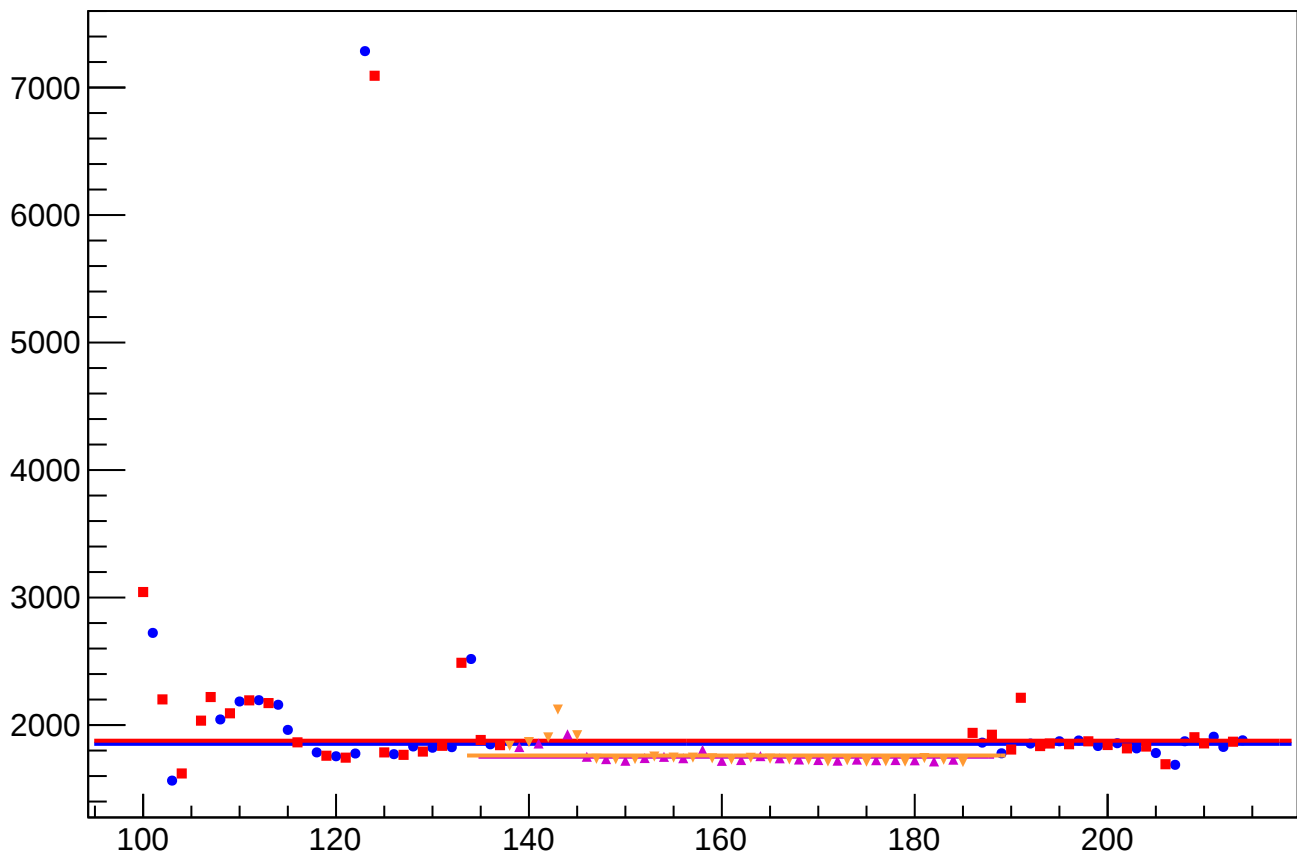
Right: -427.665 ± 323.375 χ^2/NDF : 65.1/64

In: -774.813 ± 309.257 χ^2/NDF : 40.5/53

Out: -127.280 ± 305.722 χ^2/NDF : 72.9/58

All: -447.324 ± 217.417 χ^2/NDF : 115.6/112

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1852.654+/-0.323 χ^2/NDF : 306921.4/30

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

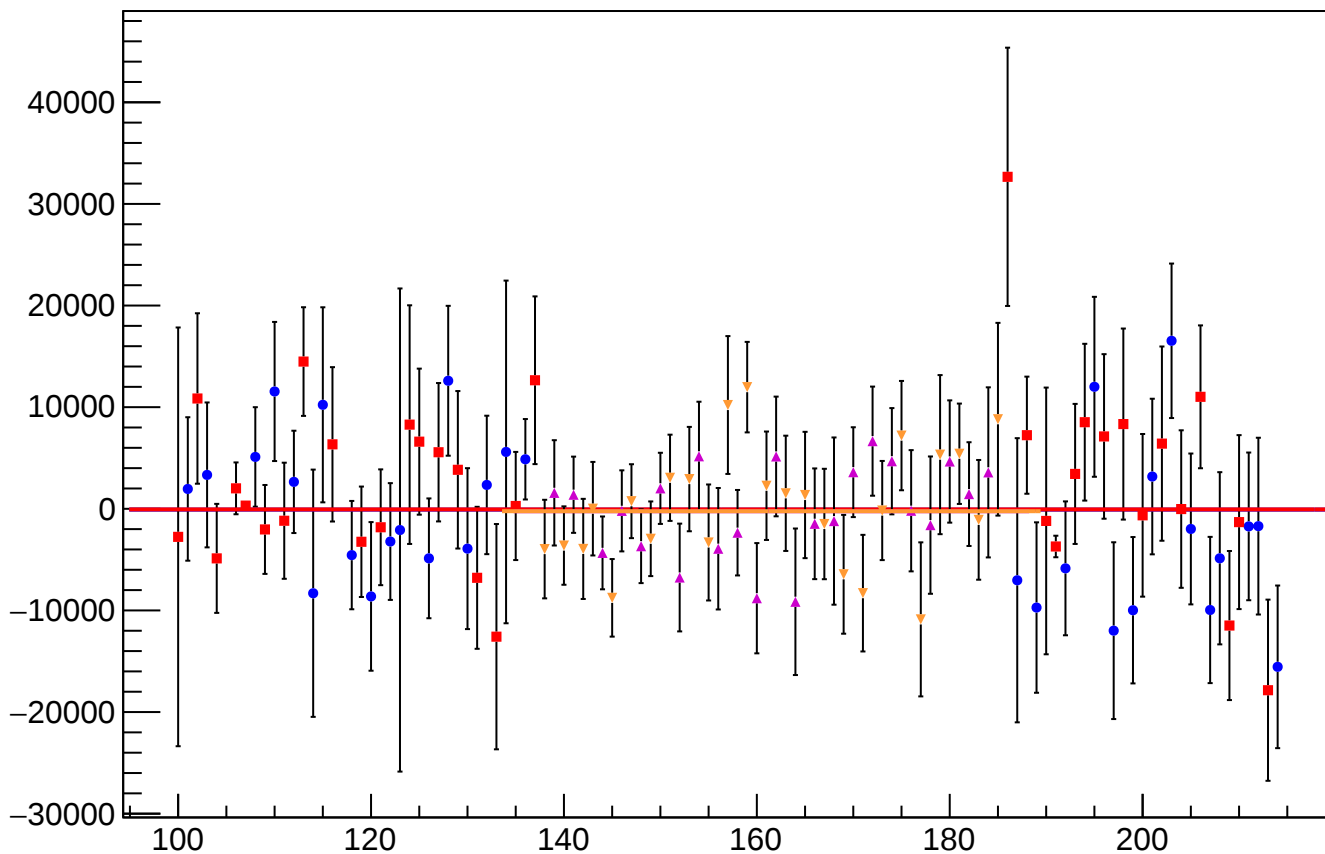
Right: 1864.915+/-0.229 χ^2/NDF : 704658.9/64

In: 1797.741+/-0.219 χ^2/NDF : 388694.6/53

Out: 1812.972+/-0.216 χ^2/NDF : 543643.9/58

All: 1805.446+/-0.154 χ^2/NDF : 934792.5/112

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: -80.713 ± 1270.946 χ^2/NDF : 33.3/30

Left Out: -235.806 ± 1005.144 χ^2/NDF : 28.9/24

Right Out: -60.776 ± 409.550 χ^2/NDF : 52.0/33

Left In: -239.224 ± 1028.883 χ^2/NDF : 15.3/22

Left: -237.475 ± 718.990 χ^2/NDF : 44.2/47

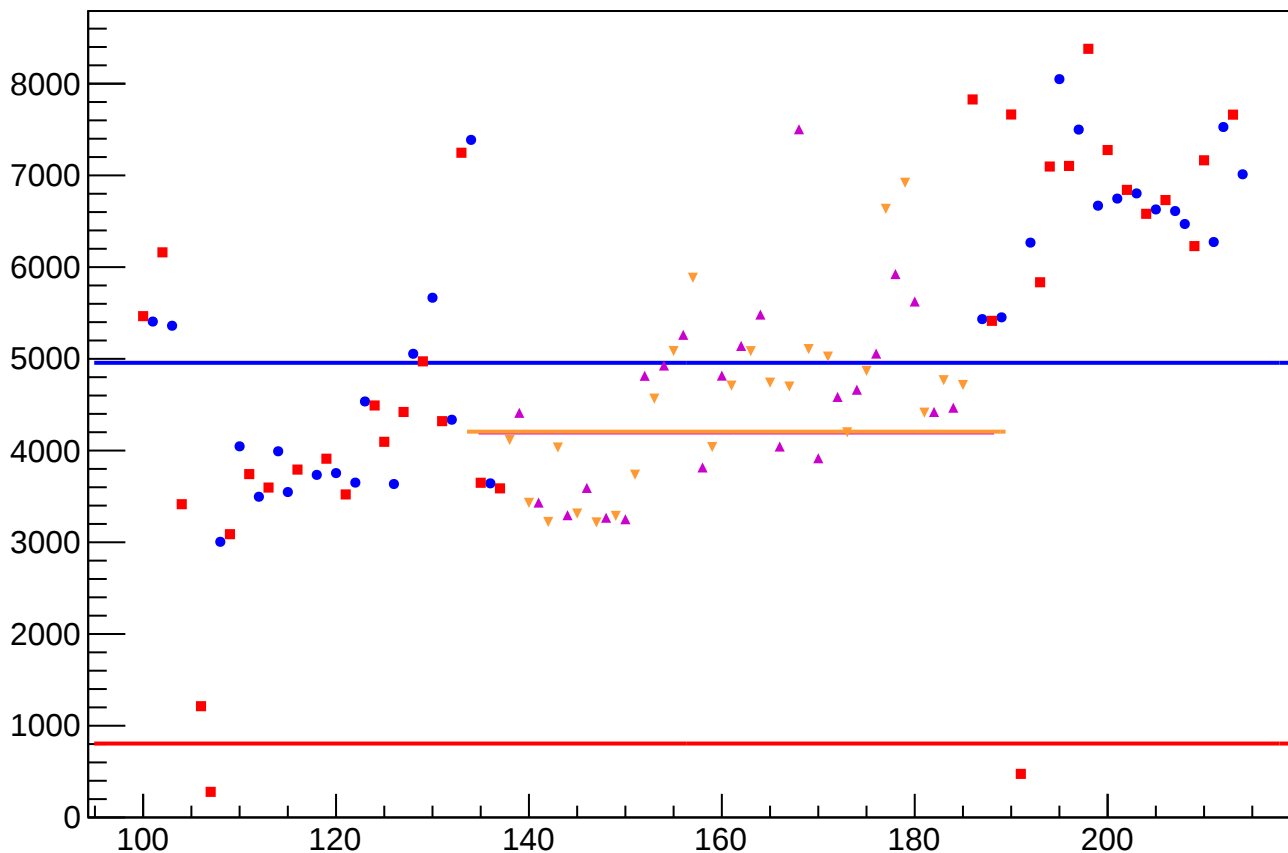
Right: -62.651 ± 389.811 χ^2/NDF : 85.3/64

In: -176.469 ± 799.687 χ^2/NDF : 48.6/53

Out: -85.697 ± 379.275 χ^2/NDF : 80.9/58

All: -102.366 ± 342.686 χ^2/NDF : 129.5/112

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 4956.765+/-0.899

χ^2/NDF : 2738082.9/30

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: 1196.462+/-0.276

χ^2/NDF : 48224348.3/64

In: 4497.953+/-0.565

χ^2/NDF :4640551.9/53

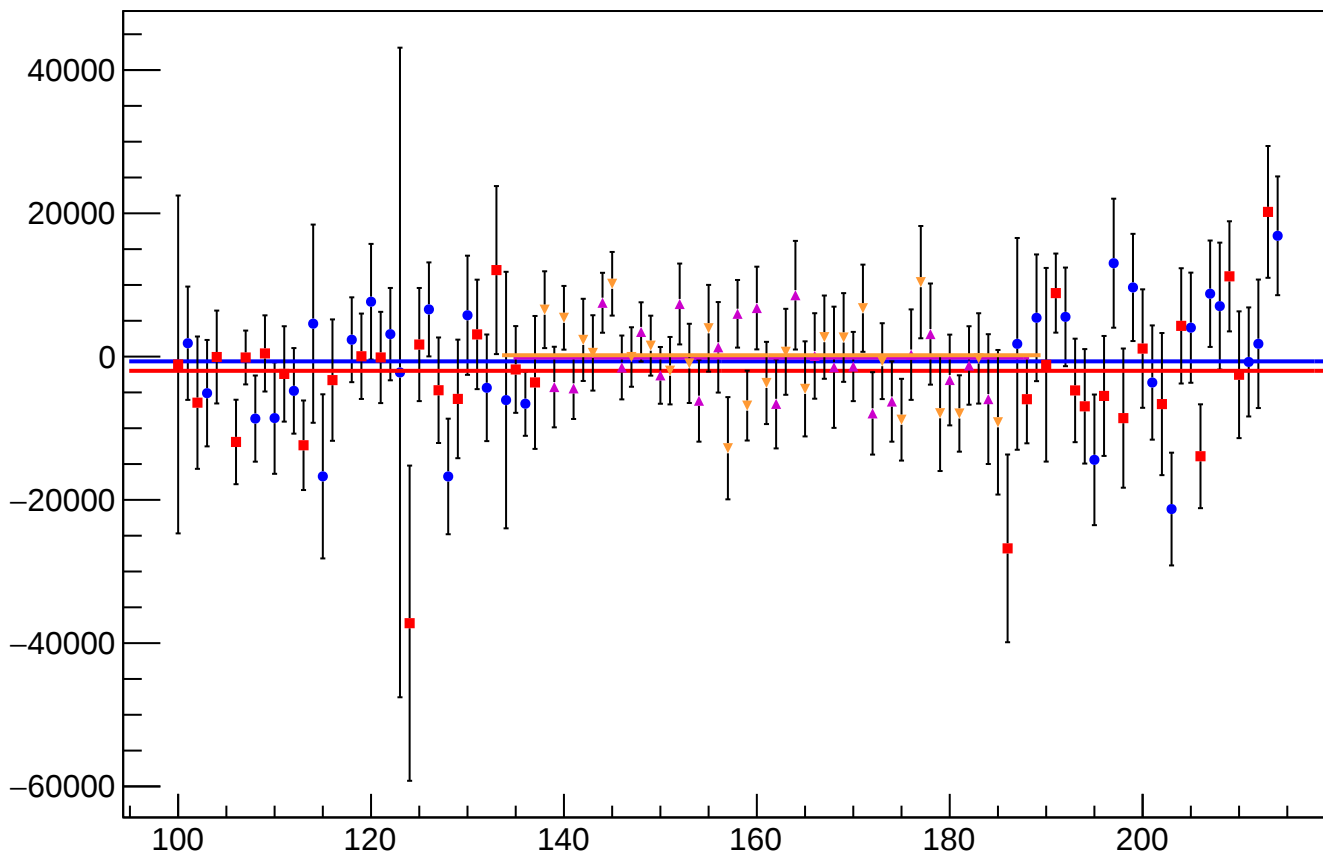
Out: 1290.104+/-0.268

χ^2/NDF :47229856.9/58

All: 1879.174+/-0.242

χ^2/NDF : 78142951.5/100

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -663.687+/-1391.820 χ^2/NDF : 37.5/30

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

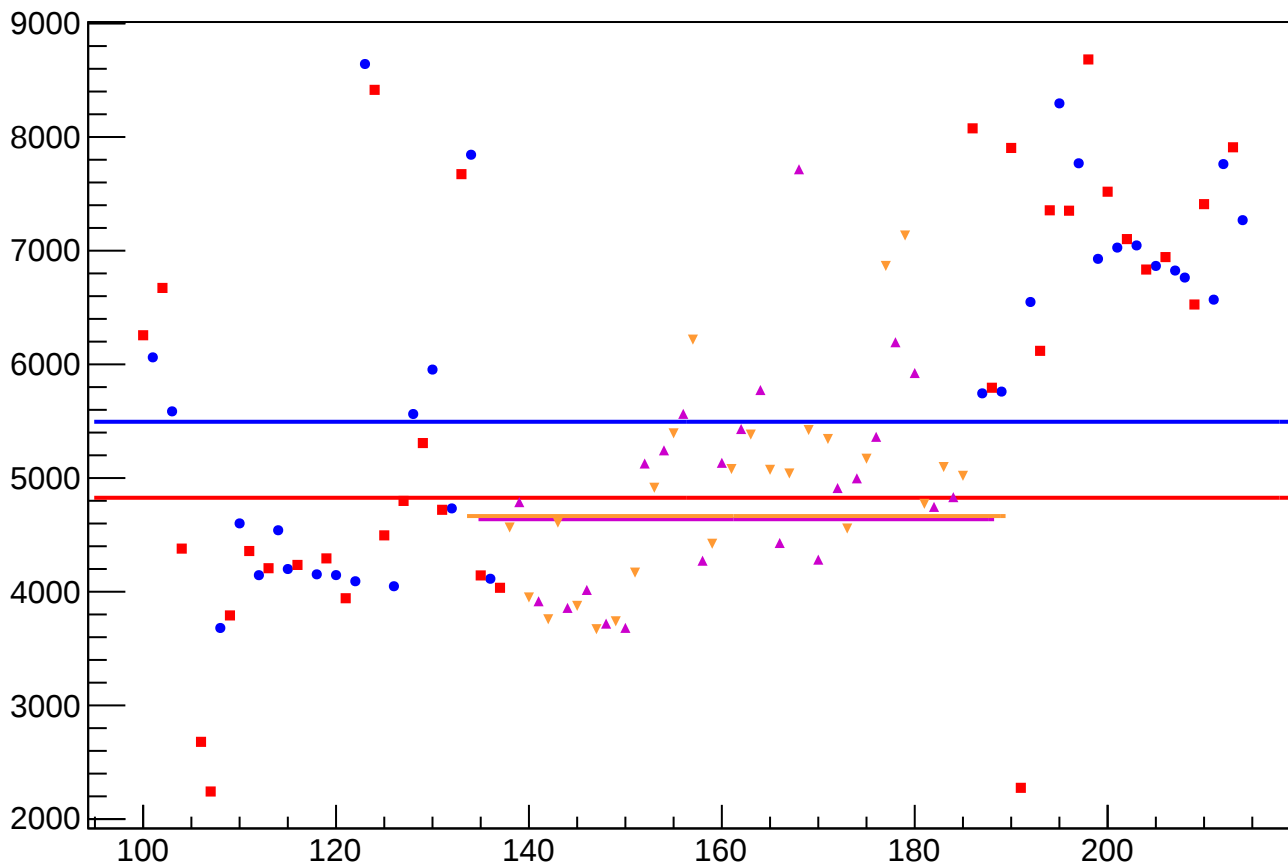
Right: -1391.878+/-933.009 χ^2/NDF : 71.1/64

In: -346.456+/-877.111 χ^2/NDF : 56.2/53

Out: -760.267+/-830.803 χ^2/NDF : 59.8/58

All: -564.573+/-603.173 χ^2/NDF : 116.1/112

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5495.032 $\pm$ 0.984 χ^2 /NDF: 1986258.7/30

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

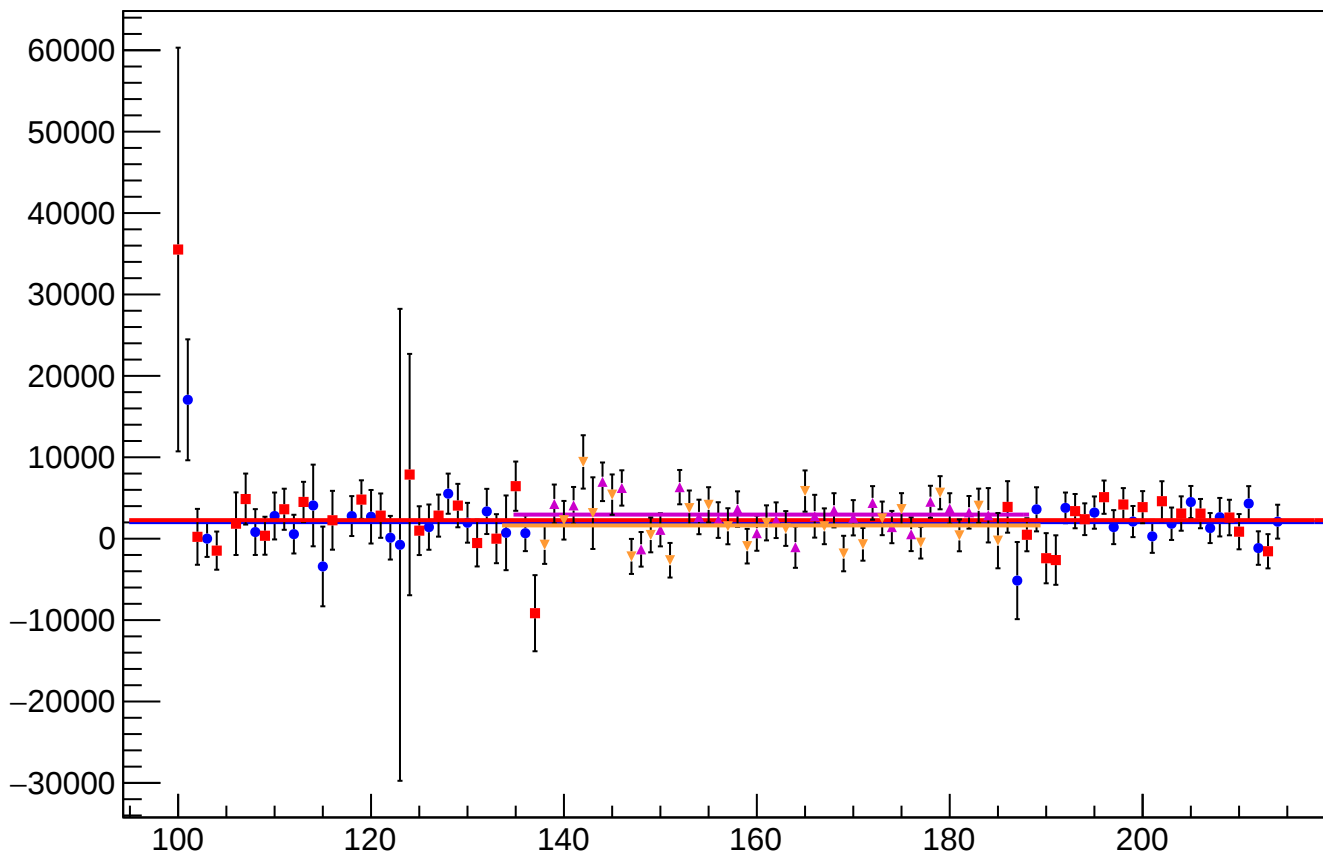
Right: 5125.577 $\pm$ 0.658 χ^2 /NDF: 6557978.0/64

In: 4978.227 $\pm$ 0.620 χ^2 /NDF: 3508880.0/53

Out: 4736.194 $\pm$ 0.586 χ^2 /NDF: 5352495.9/58

All: 4850.436 $\pm$ 0.426 χ^2 /NDF: 8941783.0/111

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2033.790+/-442.959 χ^2/NDF : 20.4/30

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

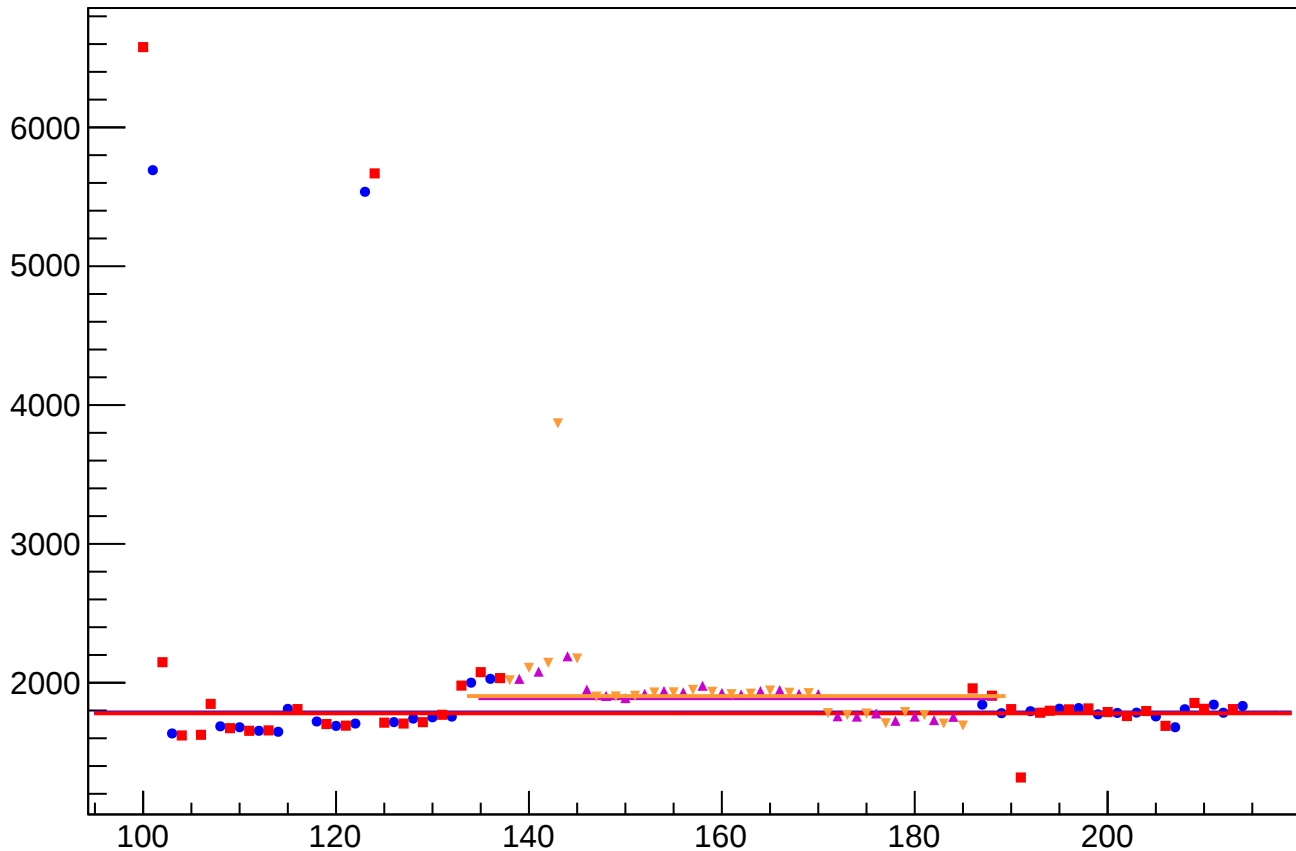
Right: 2157.088+/-310.718 χ^2/NDF : 53.8/64

In: 2485.141+/-316.945 χ^2/NDF :42.9/53

Out: 1961.402+/-312.125 χ^2/NDF :69.8/58

All: 2219.259+/-222.390 χ^2/NDF : 114.1/112

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1785.315 $\pm$ 0.313 χ^2 /NDF: 655584.6/30

Left Out: 1903.618 $\pm$ 0.316 χ^2 /NDF: 541575.7/24

Right Out: 1779.999 $\pm$ 0.307 χ^2 /NDF: 377059.5/33

Left In: 1888.927 $\pm$ 0.321 χ^2 /NDF: 126417.2/22

Left: 1896.381 $\pm$ 0.225 χ^2 /NDF: 669056.9/47

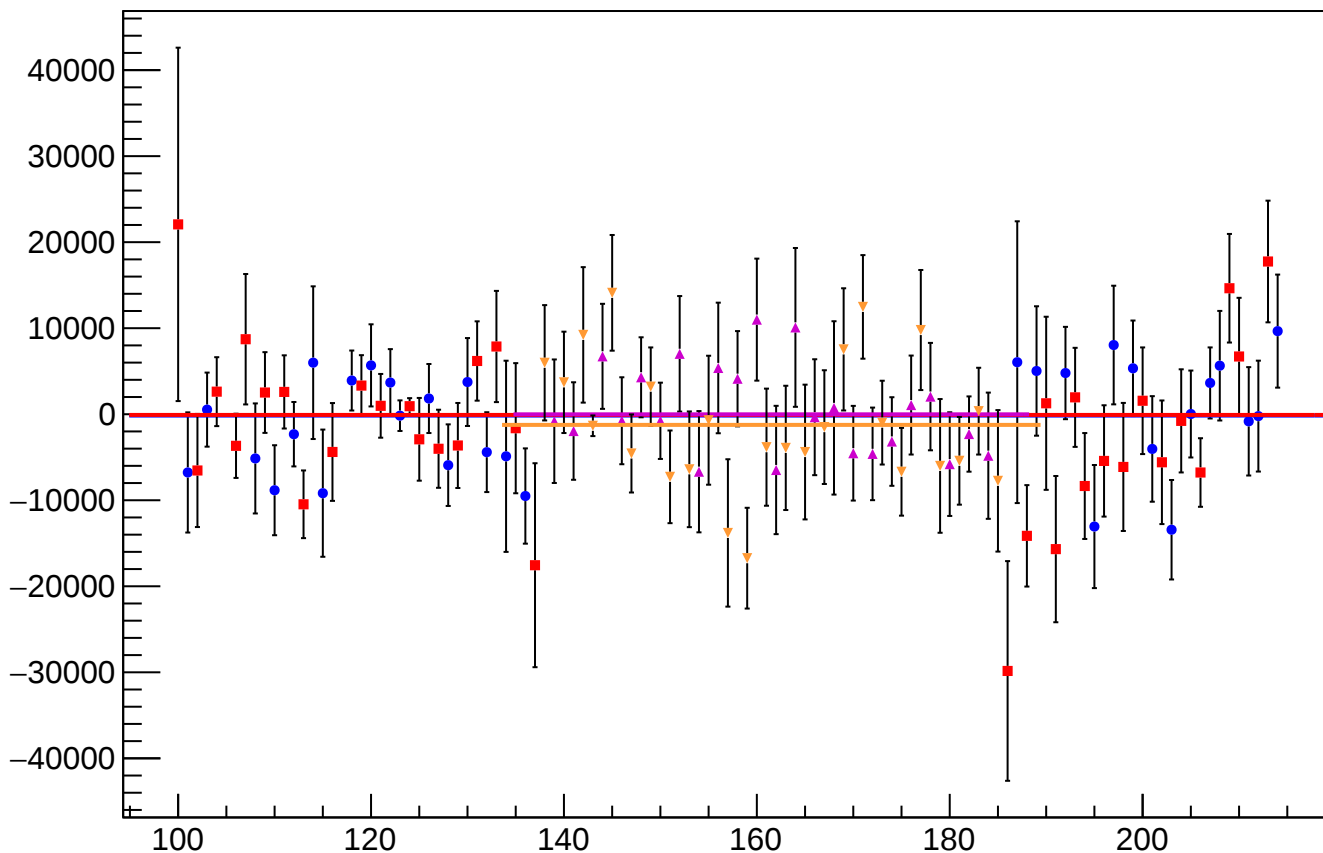
Right: 1782.607 $\pm$ 0.219 χ^2 /NDF: 1032790.8/64

In: 1835.882 $\pm$ 0.224 χ^2 /NDF: 835405.4/53

Out: 1840.083 $\pm$ 0.220 χ^2 /NDF: 997230.1/58

All: 1838.017 $\pm$ 0.157 χ^2 /NDF: 1832814.2/11

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -152.834 ± 857.843 χ^2/NDF : 33.3/30

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

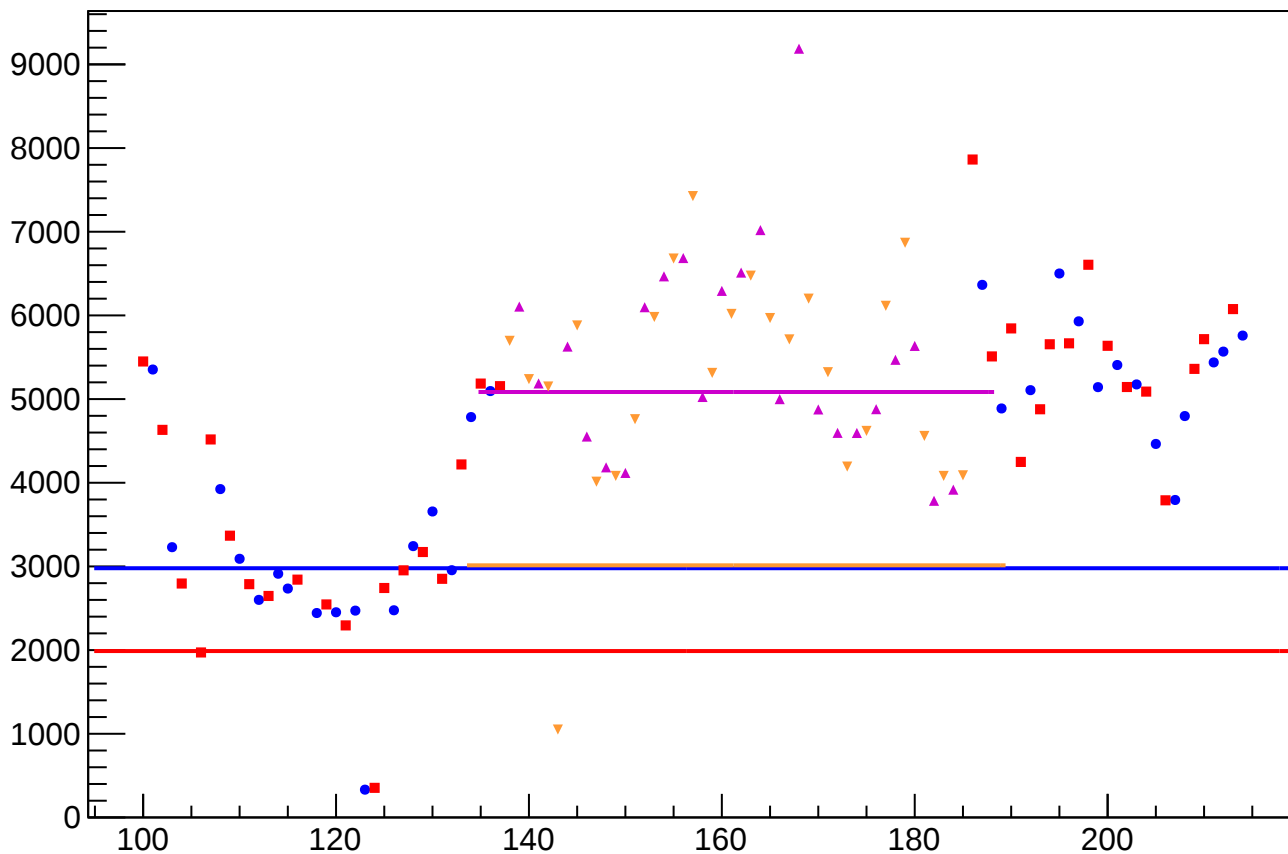
Right: -108.322 ± 525.830 χ^2/NDF : 89.9/64

In: -108.659 ± 706.085 χ^2/NDF : 46.5/53

Out: -512.109 ± 527.511 χ^2/NDF : 91.6/58

All: -367.588 ± 422.598 χ^2/NDF : 138.3/112

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2978.538 $\pm$ 0.607 χ^2/NDF : 8943211.6/30

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

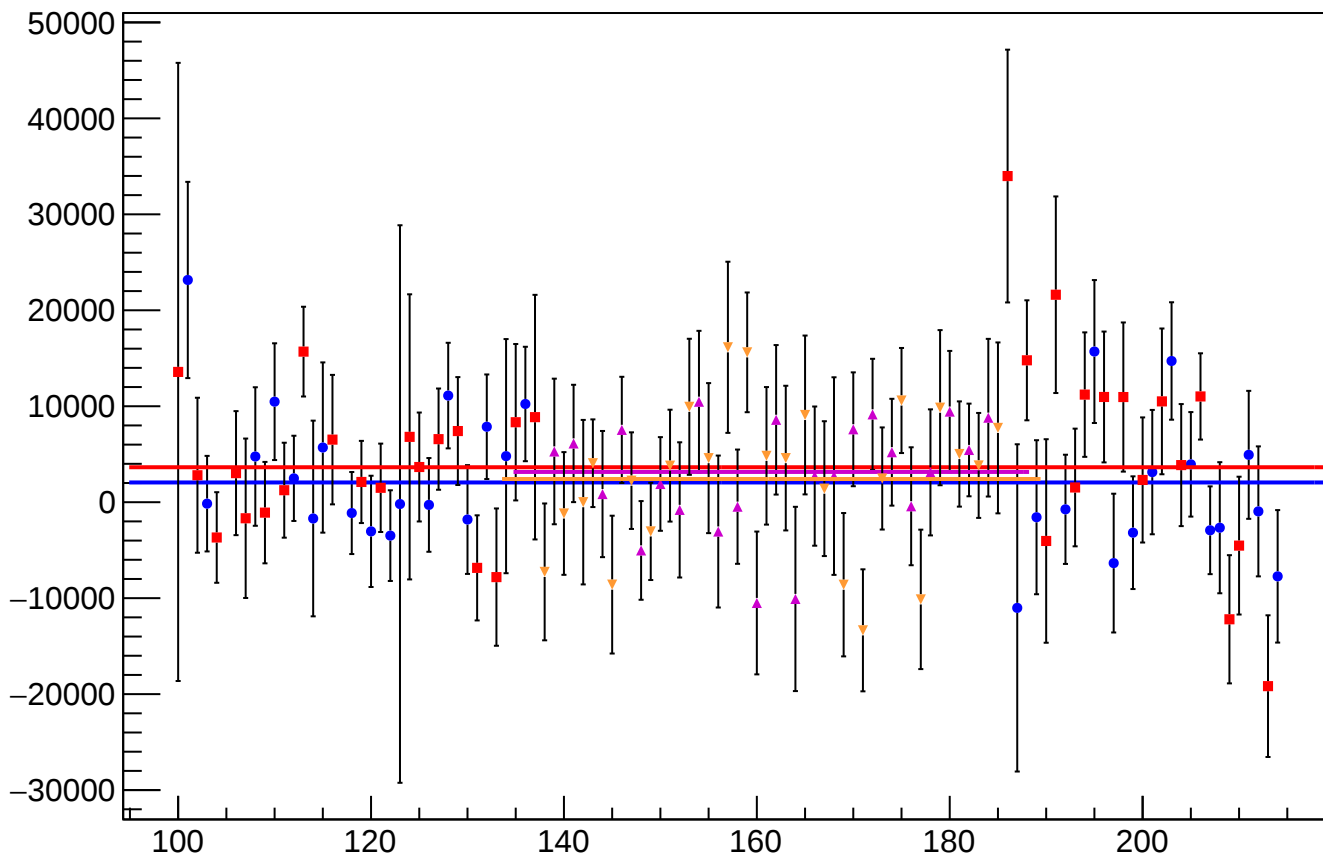
Right: 2360.614 $\pm$ 0.372 χ^2/NDF : 26931242.0/64

In: 3657.790 $\pm$ 0.499 χ^2/NDF : 14134799.7/53

Out: 2369.567 $\pm$ 0.373 χ^2/NDF : 30358529.8/58

All: 2831.024 $\pm$ 0.299 χ^2/NDF : 48765899.6/111

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2057.503+/-1111.819 χ^2/NDF : 31.0/30

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

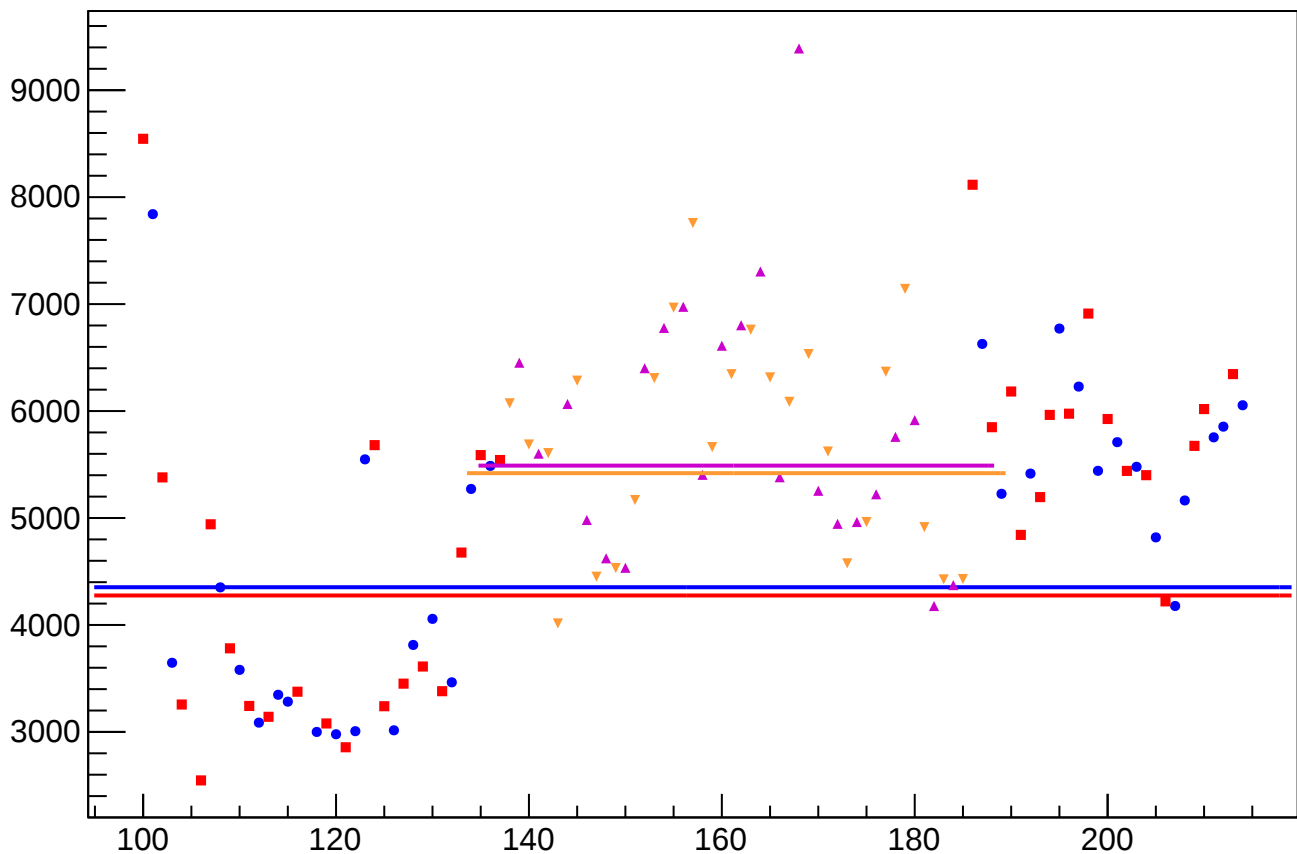
Right: 2863.721+/-779.616 χ^2/NDF : 86.3/64

In: 2505.394+/-854.960 χ^2/NDF : 46.9/53

Out: 3129.191+/-833.182 χ^2/NDF : 84.7/58

All: 2825.338+/-596.699 χ^2/NDF : 131.9/112

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4352.888+/-0.786 χ^2/NDF : 2359033.4/30

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

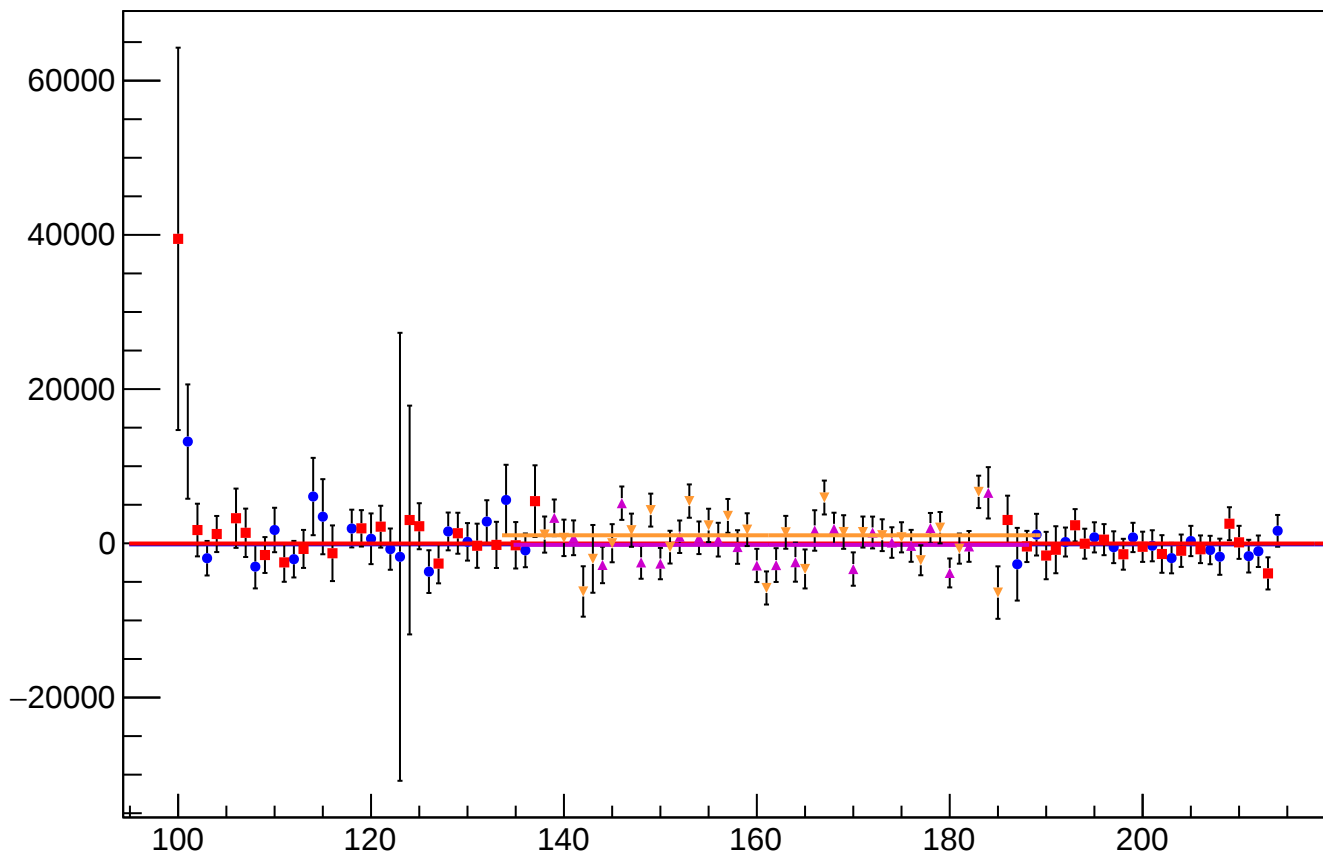
Right: 4313.299+/-0.549 χ^2/NDF : 5174585.6/64

In: 4817.554+/-0.605 χ^2/NDF :4278186.4/53

Out: 4750.442+/-0.586 χ^2/NDF :4844947.2/58

All: 4782.959+/-0.421 χ^2/NDF : 9129486.1/111

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -134.854+/-440.530 χ^2/NDF : 17.8/30

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

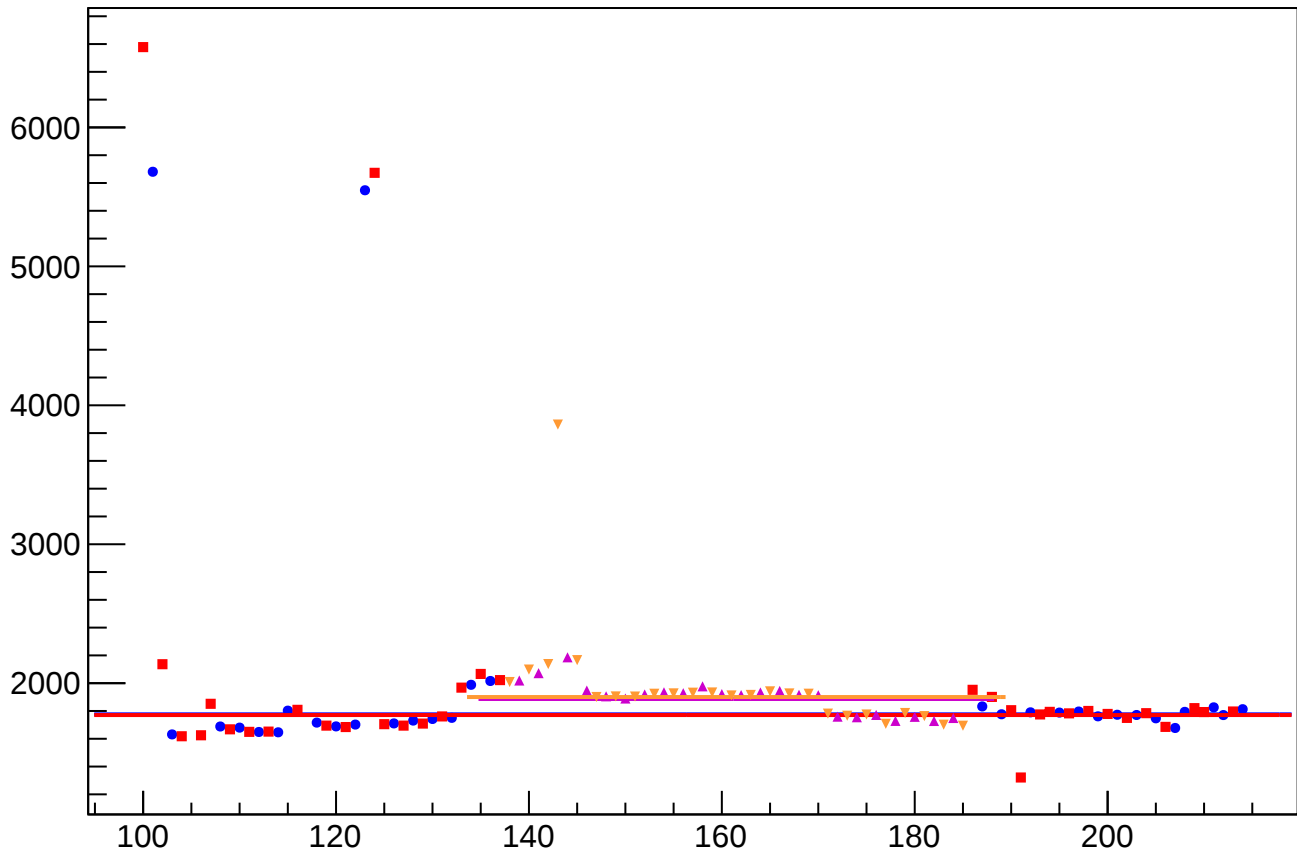
Right: -79.171+/-309.032 χ^2/NDF : 36.8/64

In: -162.610+/-315.837 χ^2/NDF : 47.8/53

Out: 492.725+/-310.987 χ^2/NDF : 70.4/58

All: 170.128+/-221.596 χ^2/NDF : 120.4/112

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1775.672+/-0.312 χ^2/NDF : 651819.0/30

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

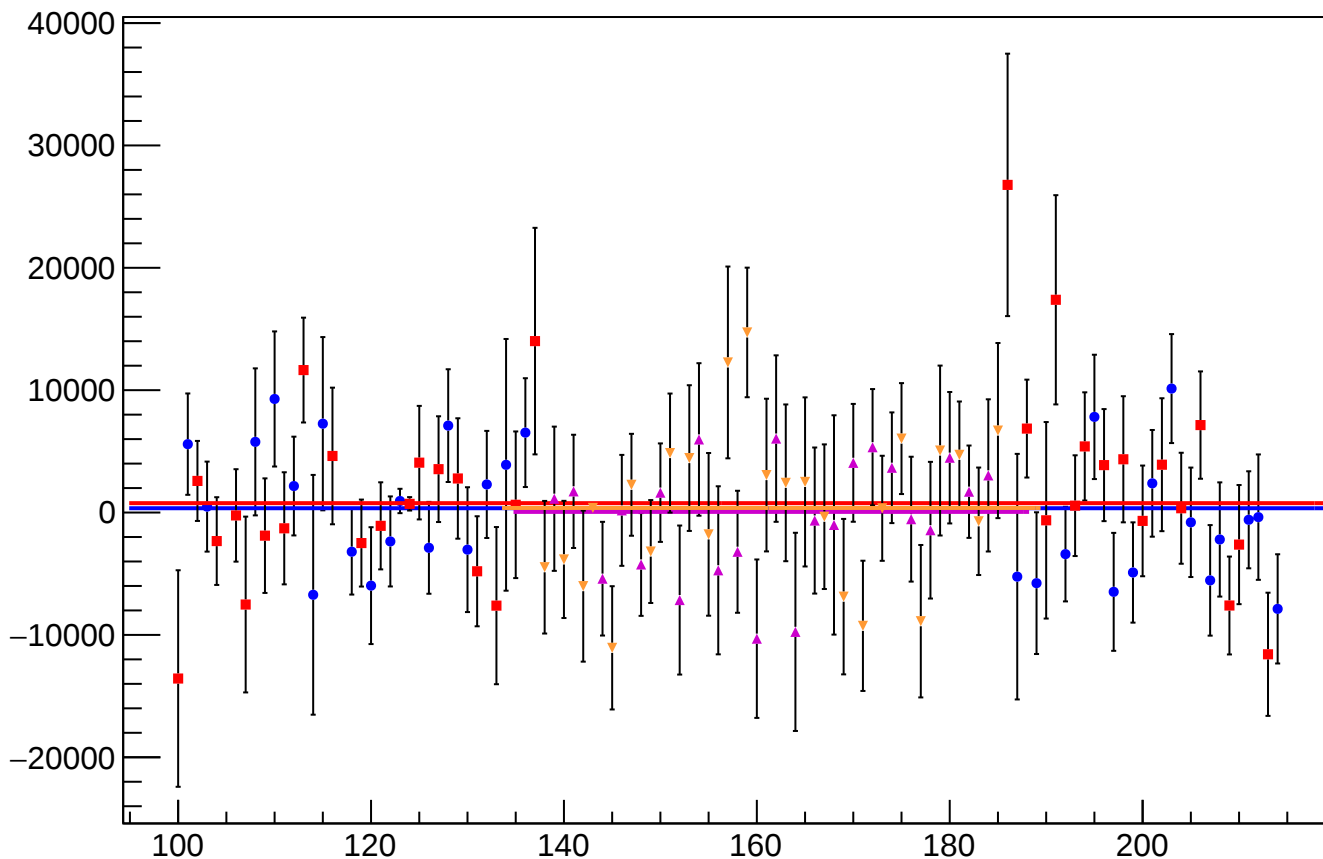
Right: 1773.148+/-0.218 χ^2/NDF : 1023526.5/64

In: 1829.473+/-0.223 χ^2/NDF : 836722.4/53

Out: 1833.467+/-0.220 χ^2/NDF : 996439.6/58

All: 1831.504+/-0.157 χ^2/NDF : 1833324.7/11

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 351.467 ± 644.150 χ^2/NDF : 34.7/30

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

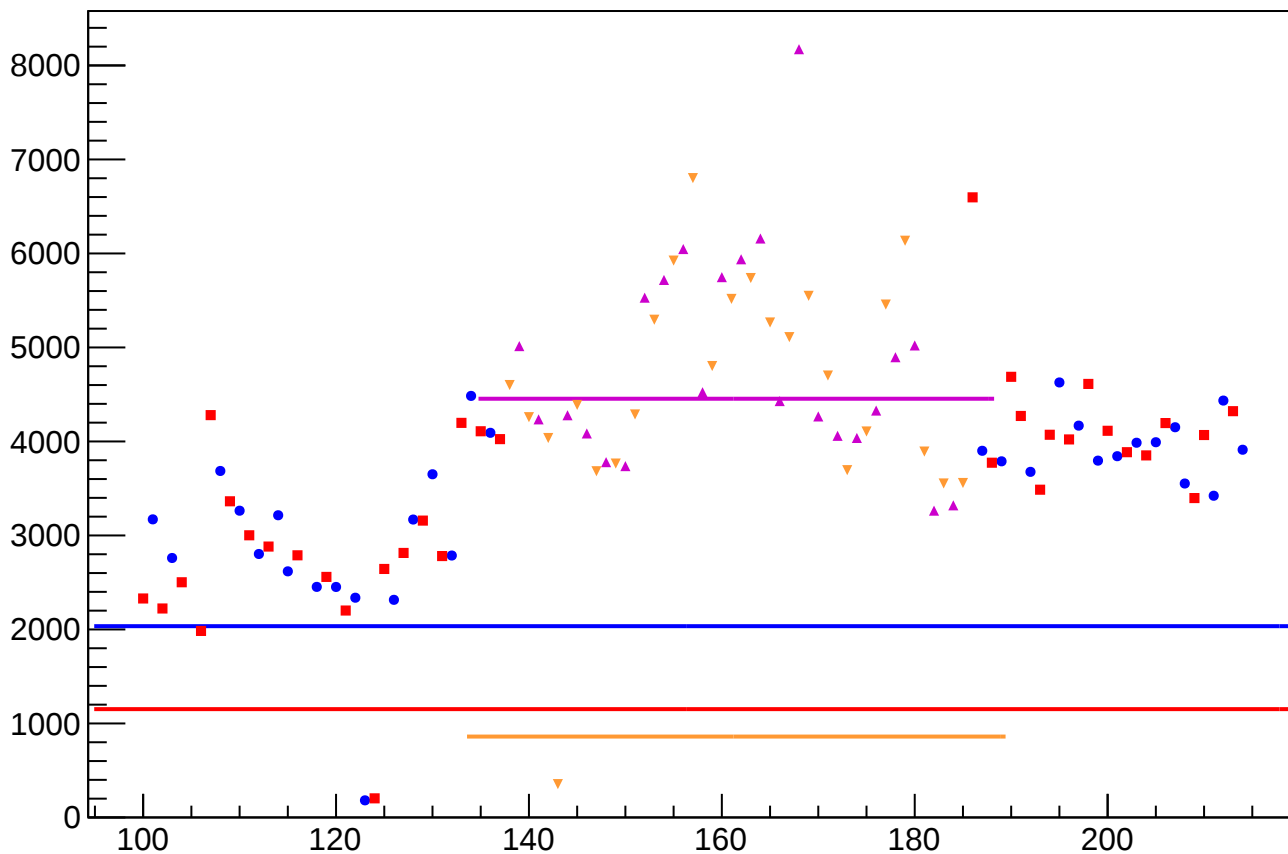
Right: 628.118 ± 371.957 χ^2/NDF : 82.5/64

In: 274.225 ± 554.538 χ^2/NDF : 49.3/53

Out: 535.645 ± 292.751 χ^2/NDF : 78.8/58

All: 478.667 ± 258.889 χ^2/NDF : 128.3/112

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 2034.907 $\pm$ 0.455 χ^2 /NDF: 13210278.0/30

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

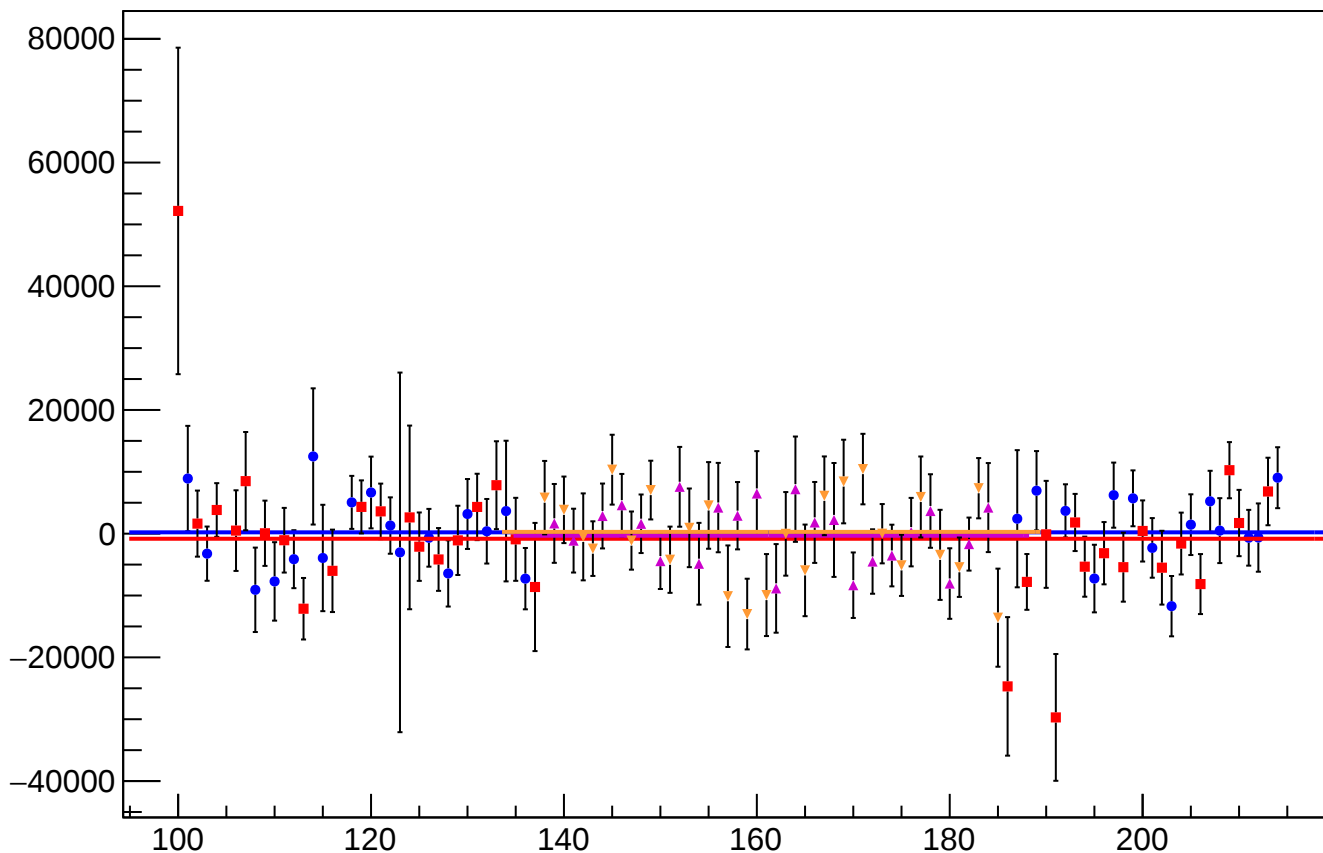
Right: 1446.644 $\pm$ 0.263 χ^2 /NDF: 37106944.2/64

In: 2661.266 $\pm$ 0.392 χ^2 /NDF: 21864770.1/53

Out: 981.046 $\pm$ 0.207 χ^2 /NDF: 48216177.9/58

All: 1347.257 $\pm$ 0.183 χ^2 /NDF: 84440218.0/111

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 215.523 ± 979.433 χ^2/NDF : 31.3/30

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -821.753 ± 965.897 χ^2/NDF : 46.7/33

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

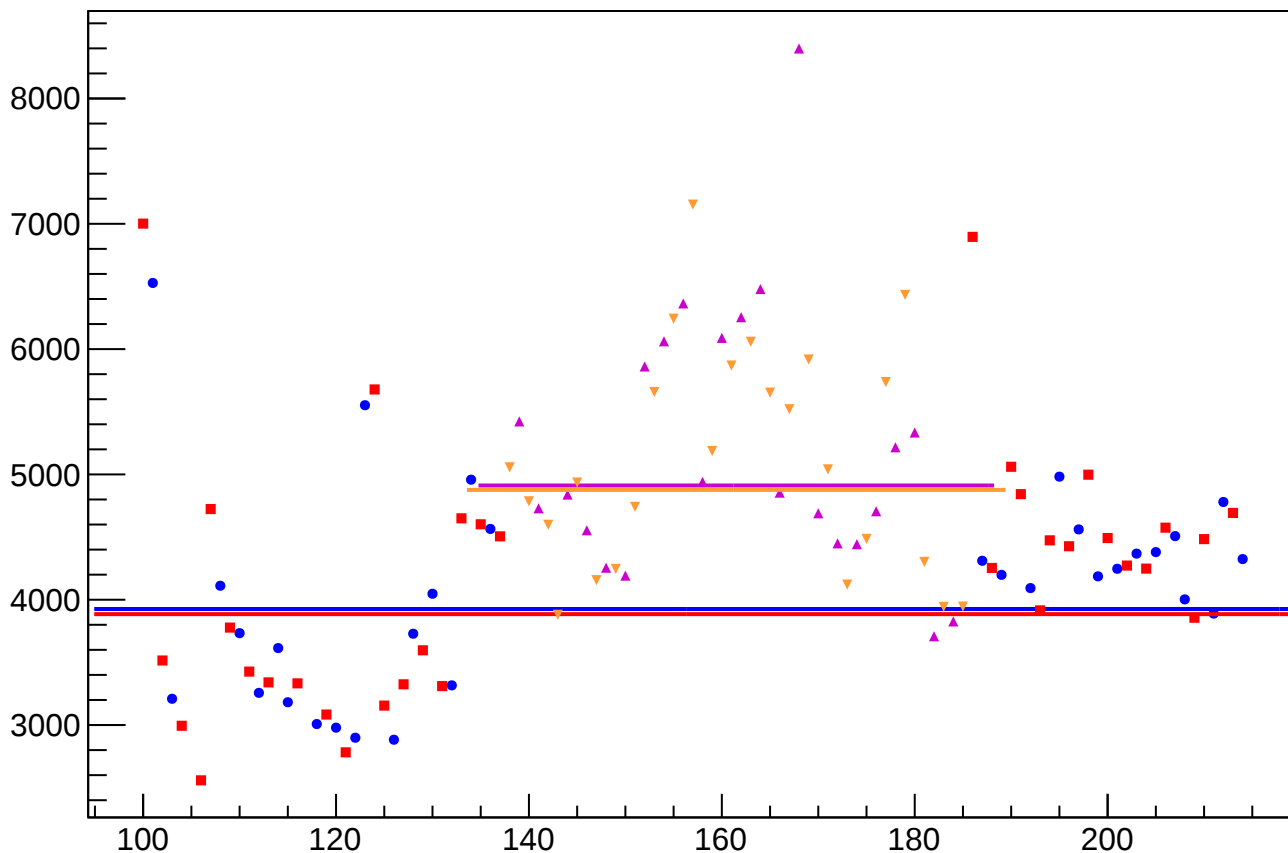
Right: -310.332 ± 687.728 χ^2/NDF : 78.5/64

In: -4.460 ± 757.767 χ^2/NDF : 46.1/53

Out: -365.029 ± 741.060 χ^2/NDF : 79.6/58

All: -188.763 ± 529.817 χ^2/NDF : 125.8/112

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3926.065 $\pm$ 0.693 χ^2 /NDF: 985427.3/30

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF:972528.1/24

Right Out: 3885.003 $\pm$ 0.678 χ^2 /NDF: 1196926.8/33

Left In: 4911.546 $\pm$ 0.846 χ^2 /NDF:1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2 /NDF: 2016577.8/47

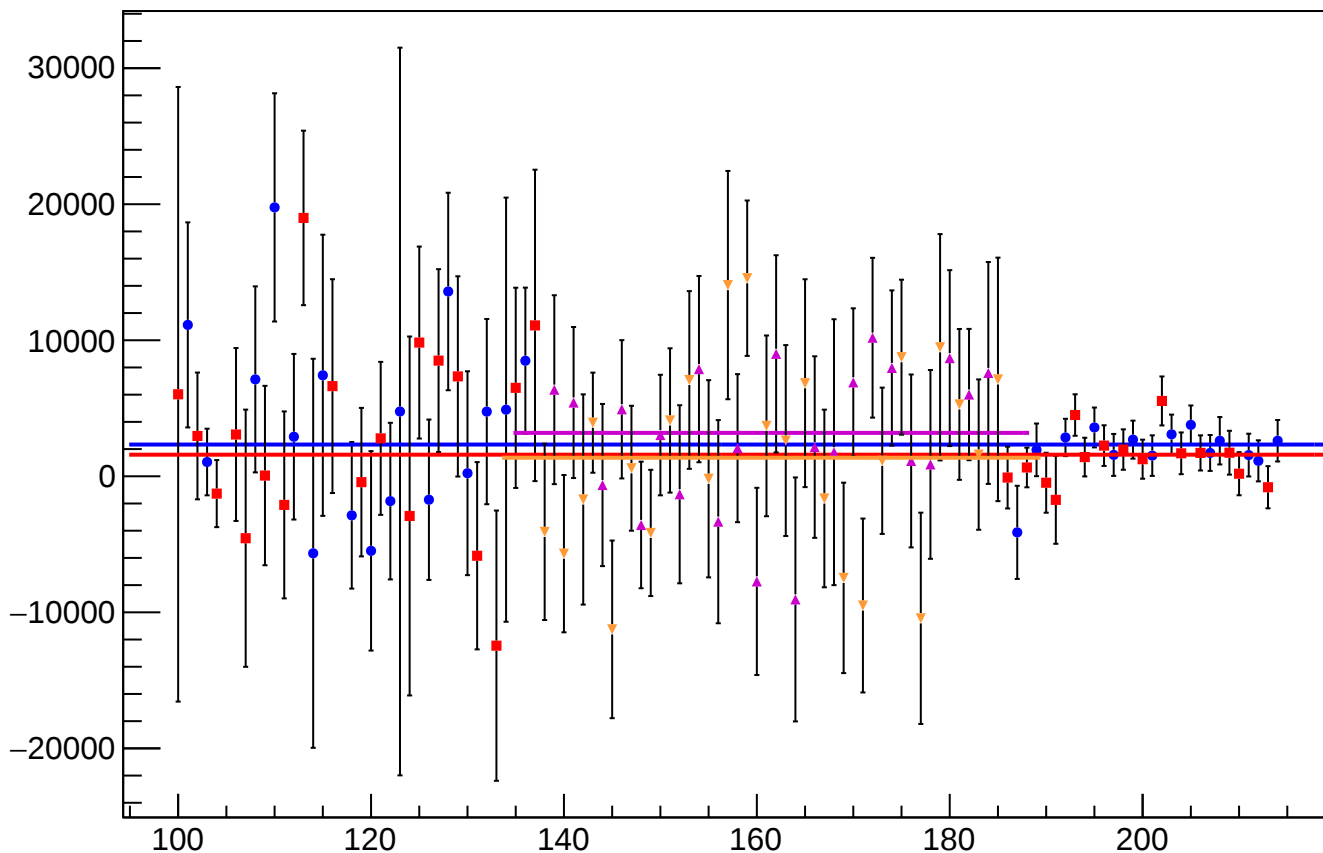
Right: 3905.106 $\pm$ 0.485 χ^2 /NDF: 2184148.4/64

In: 4321.657 $\pm$ 0.536 χ^2 /NDF:2841381.9/53

Out: 4289.579 $\pm$ 0.522 χ^2 /NDF:3041416.5/58

All: 4305.195 $\pm$ 0.374 χ^2 /NDF: 5884637.7/11

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2333.579+/-396.874 χ^2/NDF : 21.6/30

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

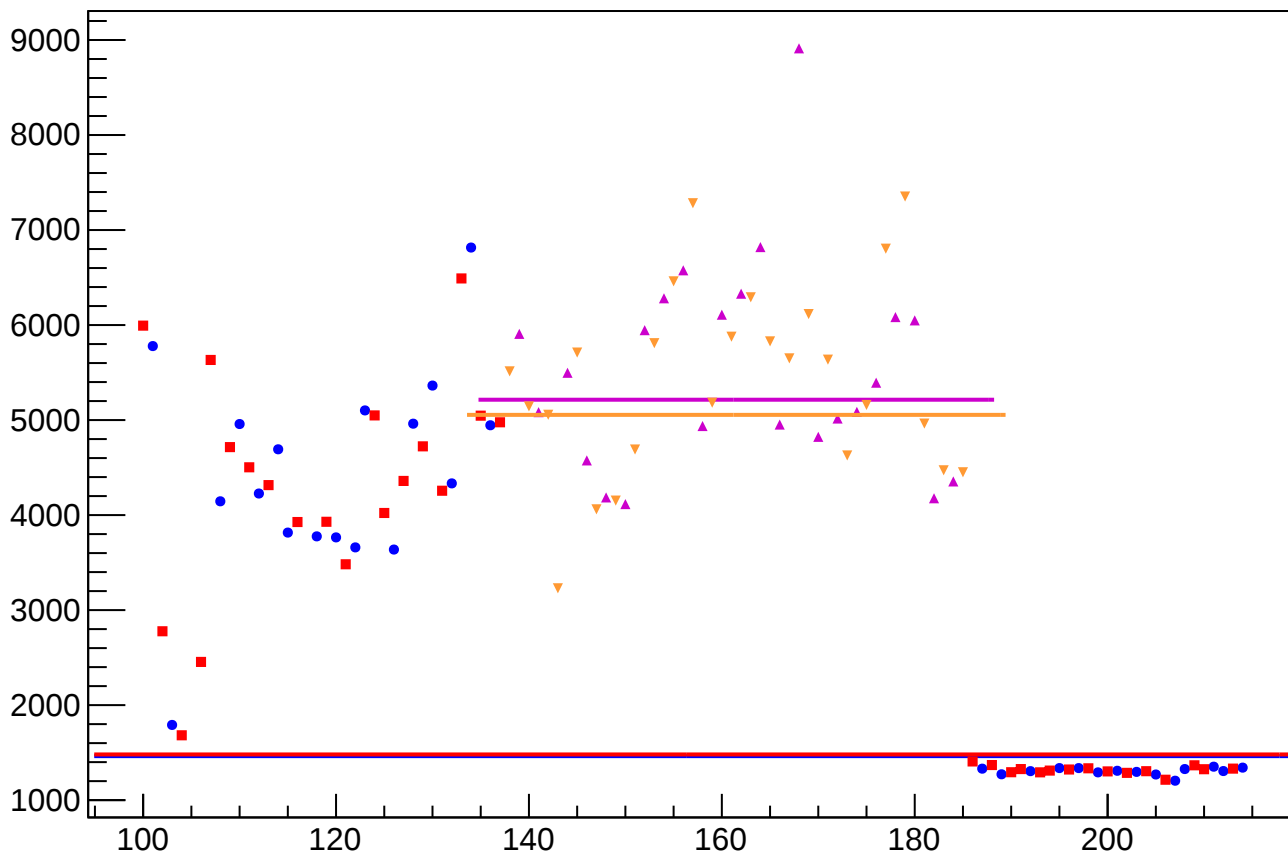
Right: 1961.173+/-280.808 χ^2/NDF : 55.9/64

In: 2409.874+/-378.809 χ^2/NDF : 36.0/53

Out: 1566.023+/-377.422 χ^2/NDF : 60.6/58

All: 1986.400+/-267.366 χ^2/NDF : 99.0/112

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1463.028+/-0.281 χ^2/NDF : 5892925.8/30

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

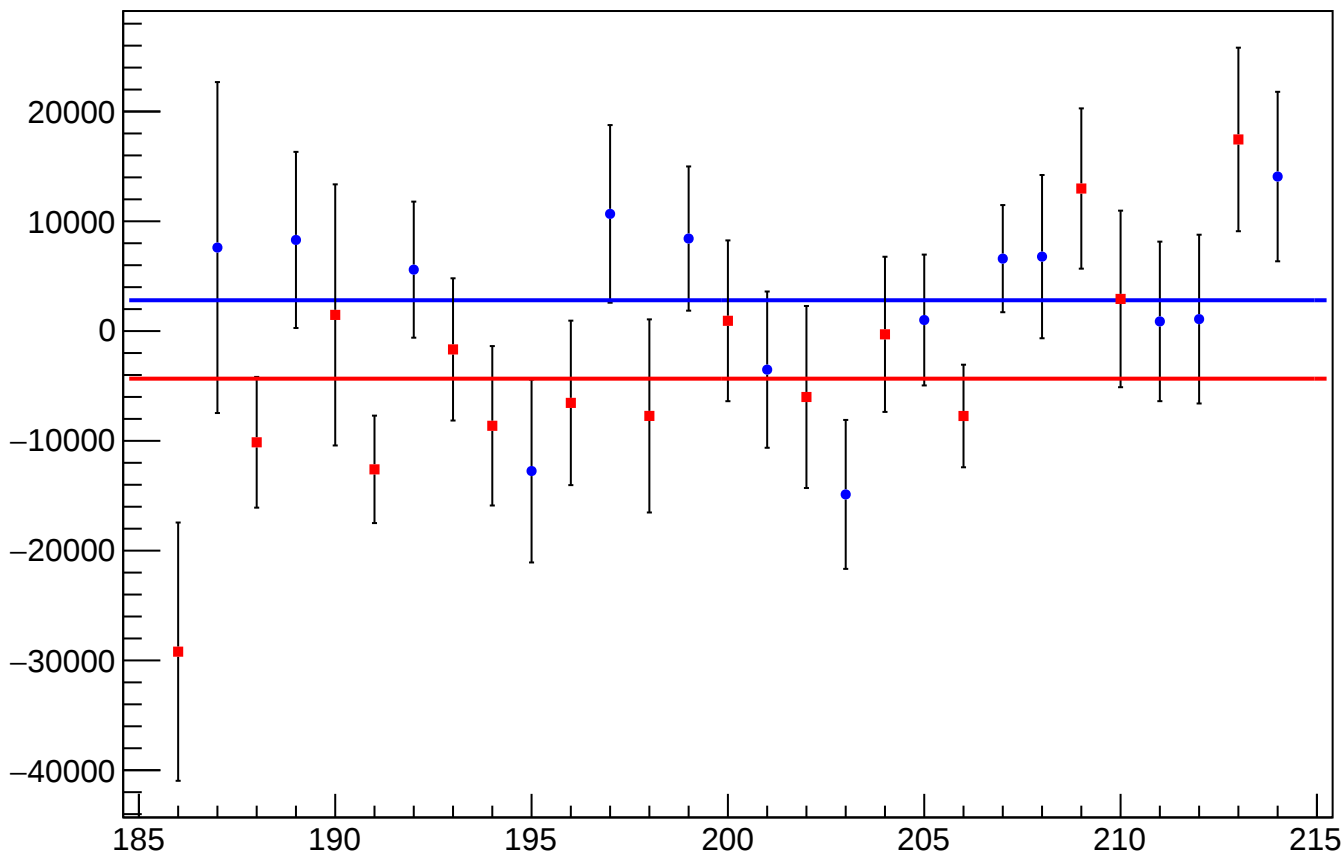
Right: 1471.928+/-0.198 χ^2/NDF : 11699943.4/64

In: 1796.742+/-0.268 χ^2/NDF : 22840364.3/53

Out: 1830.220+/-0.267 χ^2/NDF : 23081791.4/58

All: 1813.554+/-0.189 χ^2/NDF : 45930000.7/113

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 2807.596+/-1885.816 χ^2/NDF : 16.8/13

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -4335.197+/-1809.645 χ^2/NDF : 23.9/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

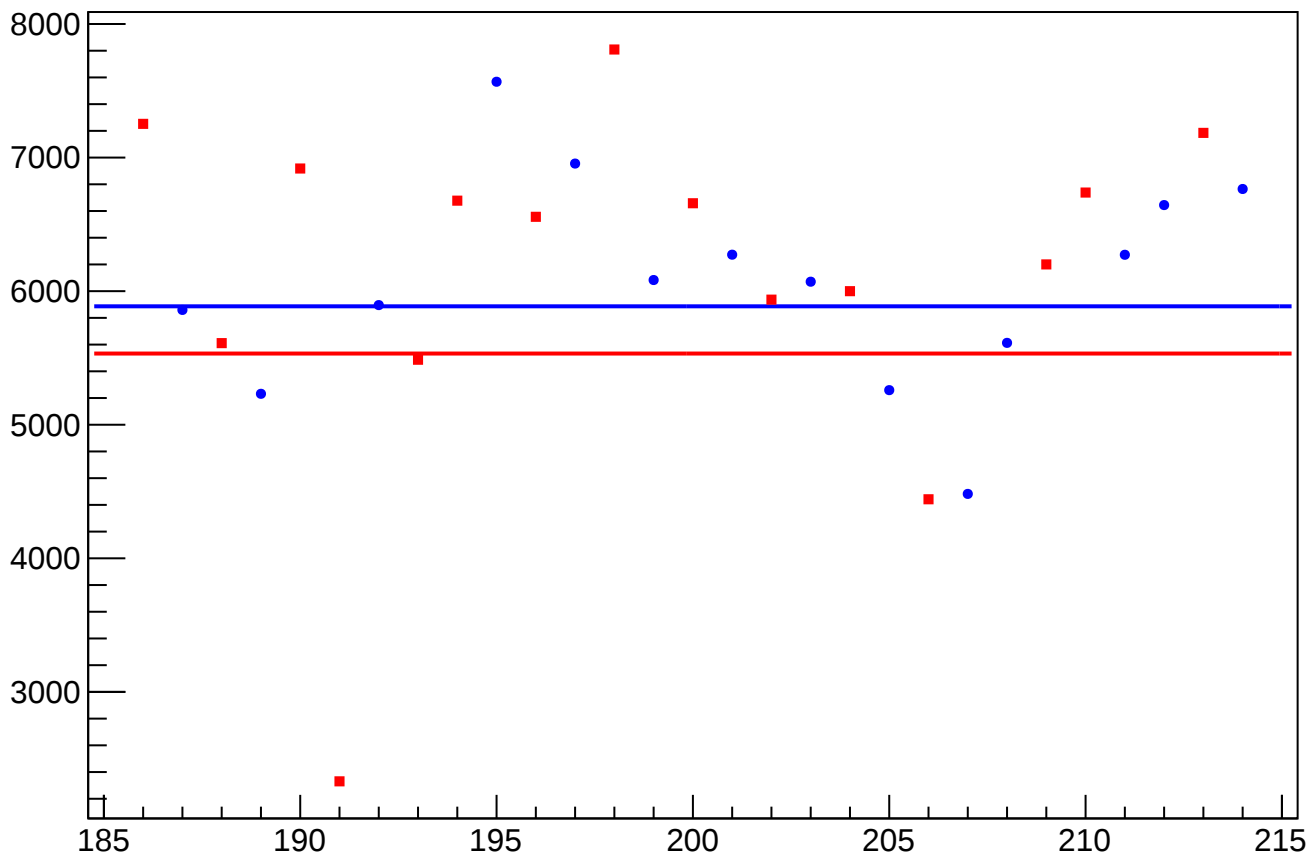
Right: -910.965+/-1305.710 χ^2/NDF : 48.1/28

In: 2807.596+/-1885.816 χ^2/NDF : 16.8/13

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -910.965+/-1305.710 χ^2/NDF : 48.1/28

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5886.533+/-1.333 χ^2/NDF : 380327.5/13

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

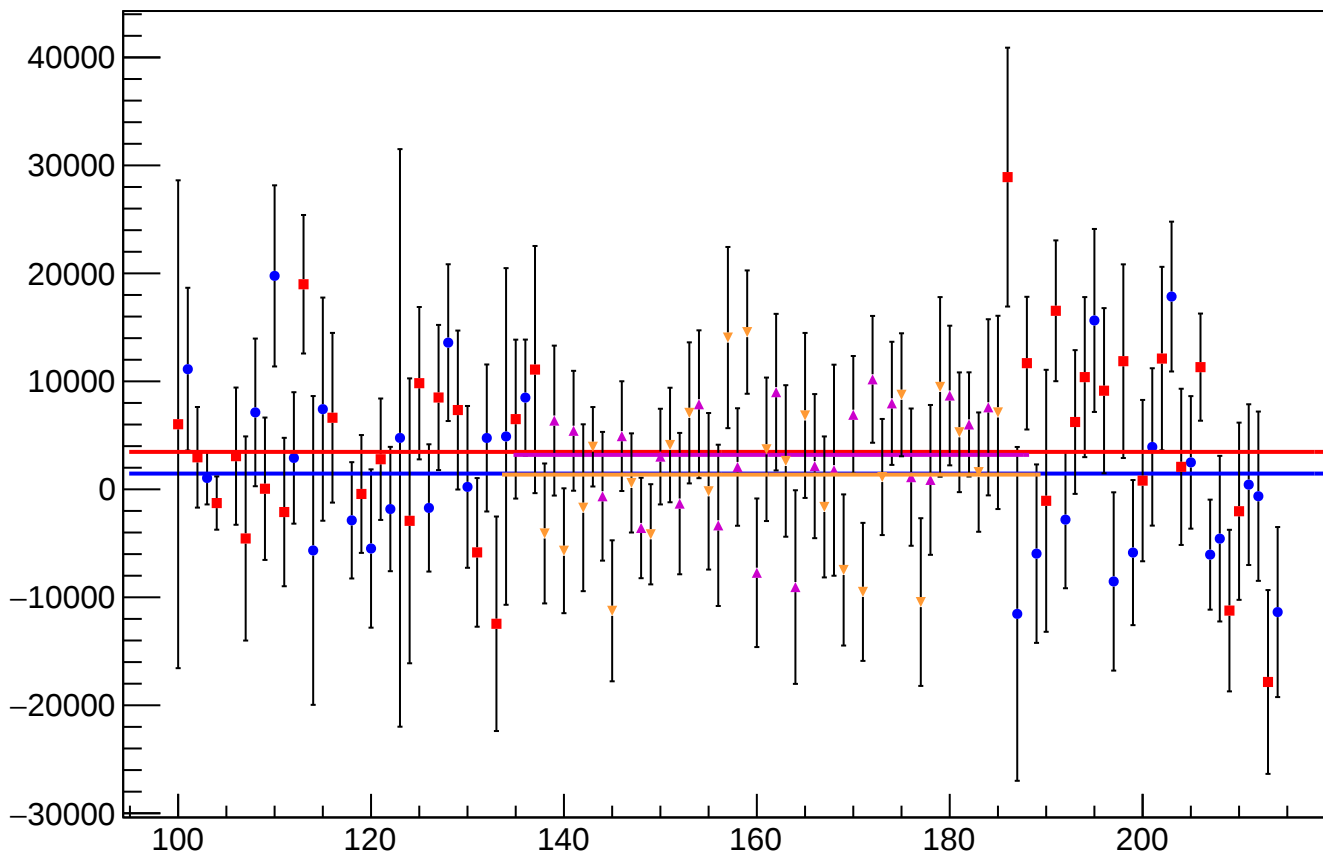
Right: 5702.477+/-0.923 χ^2/NDF : 1874109.0/28

In: 5886.533+/-1.333 χ^2/NDF :380327.5/13

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 5702.477+/-0.923 χ^2/NDF : 1874109.0/28

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1458.249+/-1163.872 χ^2/NDF : 33.4/30

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

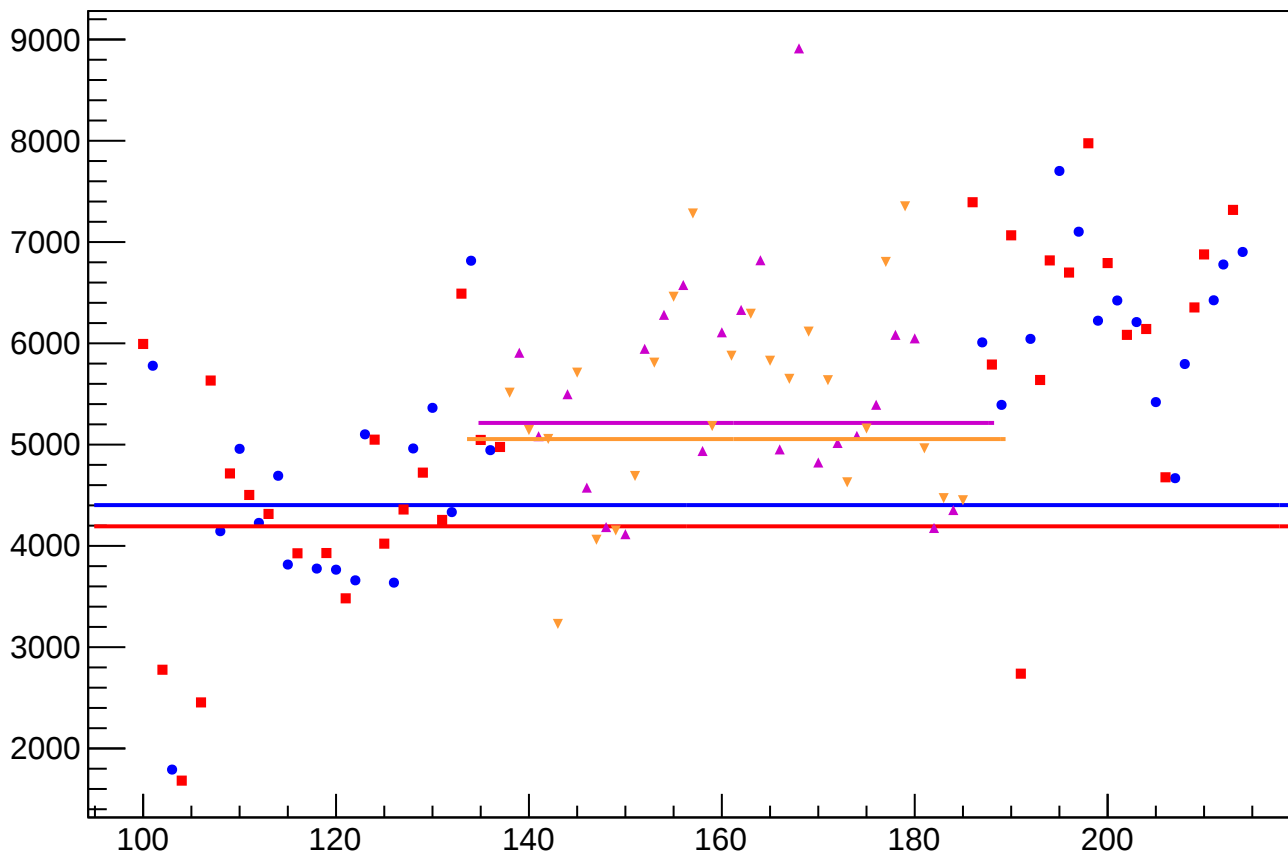
Right: 2499.555+/-807.814 χ^2/NDF : 81.0/64

In: 2249.271+/-858.059 χ^2/NDF : 48.4/53

Out: 2492.168+/-821.595 χ^2/NDF : 75.6/58

All: 2375.990+/-593.428 χ^2/NDF : 124.1/112

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4402.762 $\pm$ 0.823 χ^2 /NDF: 4381855.5/30

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF:1437224.7/24

Right Out: 4193.211 $\pm$ 0.789 χ^2 /NDF: 5307930.5/33

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF:1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

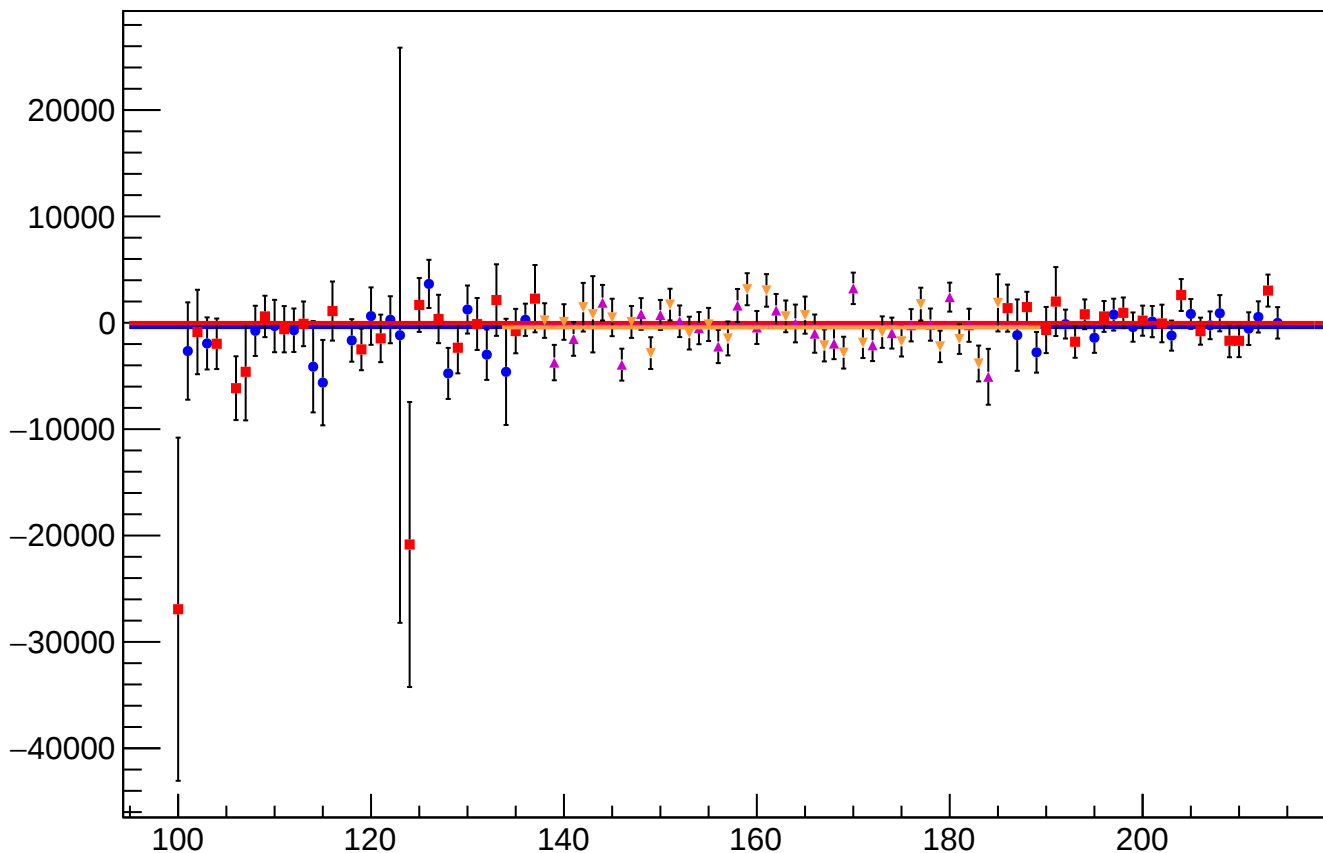
Right: 4293.524 $\pm$ 0.569 χ^2 /NDF: 9723584.5/64

In: 4773.116 $\pm$ 0.607 χ^2 /NDF:5878029.6/53

Out: 4590.256 $\pm$ 0.579 χ^2 /NDF:7295129.1/58

All: 4677.420 $\pm$ 0.419 χ^2 /NDF: 13220693.9/117

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -400.547+/-335.977 χ^2 /NDF: 18.0/30

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

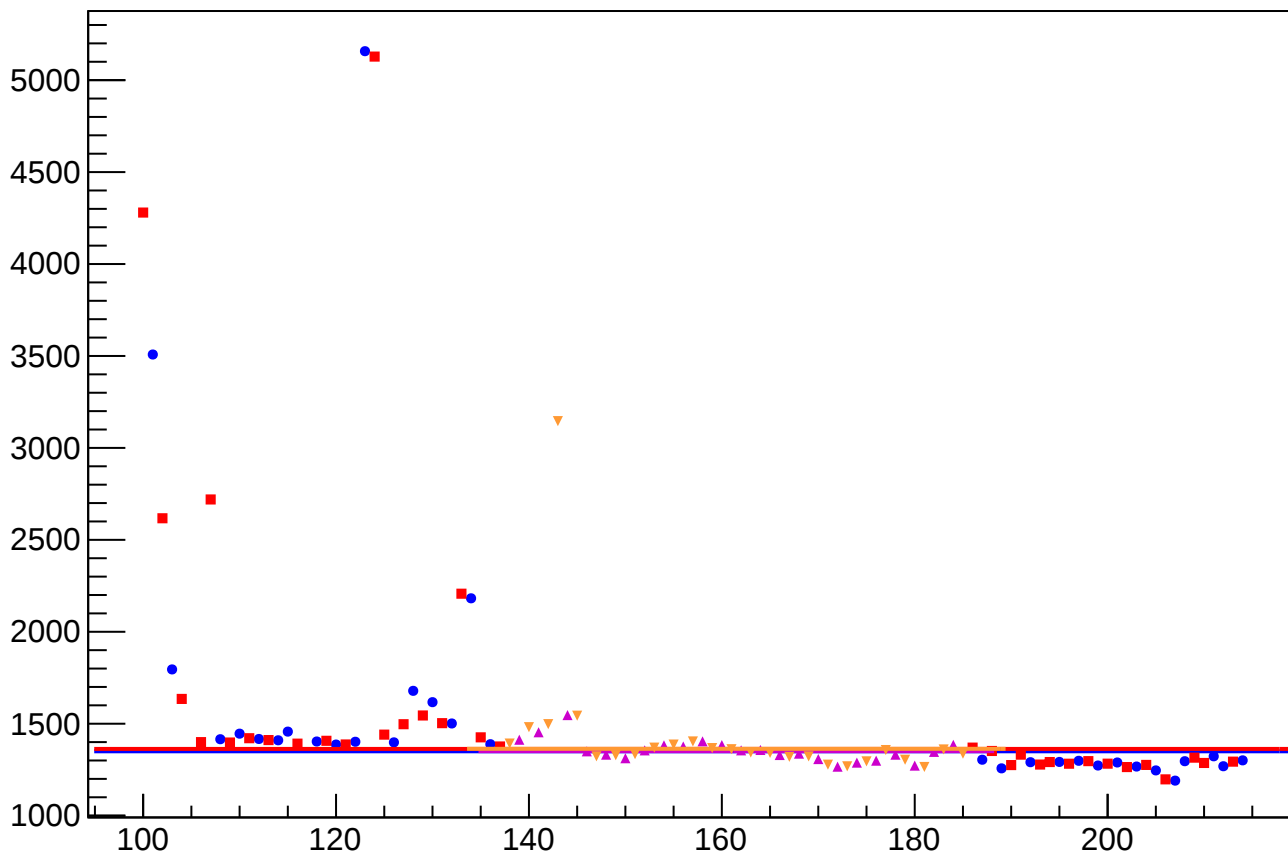
Right: -206.633+/-237.475 χ^2 /NDF: 48.8/64

In: -371.144+/-233.359 χ^2 /NDF:51.8/53

Out: -232.043+/-231.832 χ^2 /NDF:64.0/58

All: -301.137+/-164.467 χ^2 /NDF: 116.0/112

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1350.021+/-0.238 χ^2/NDF : 776842.0/30

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1362.943+/-0.237 χ^2/NDF : 874871.5/33

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

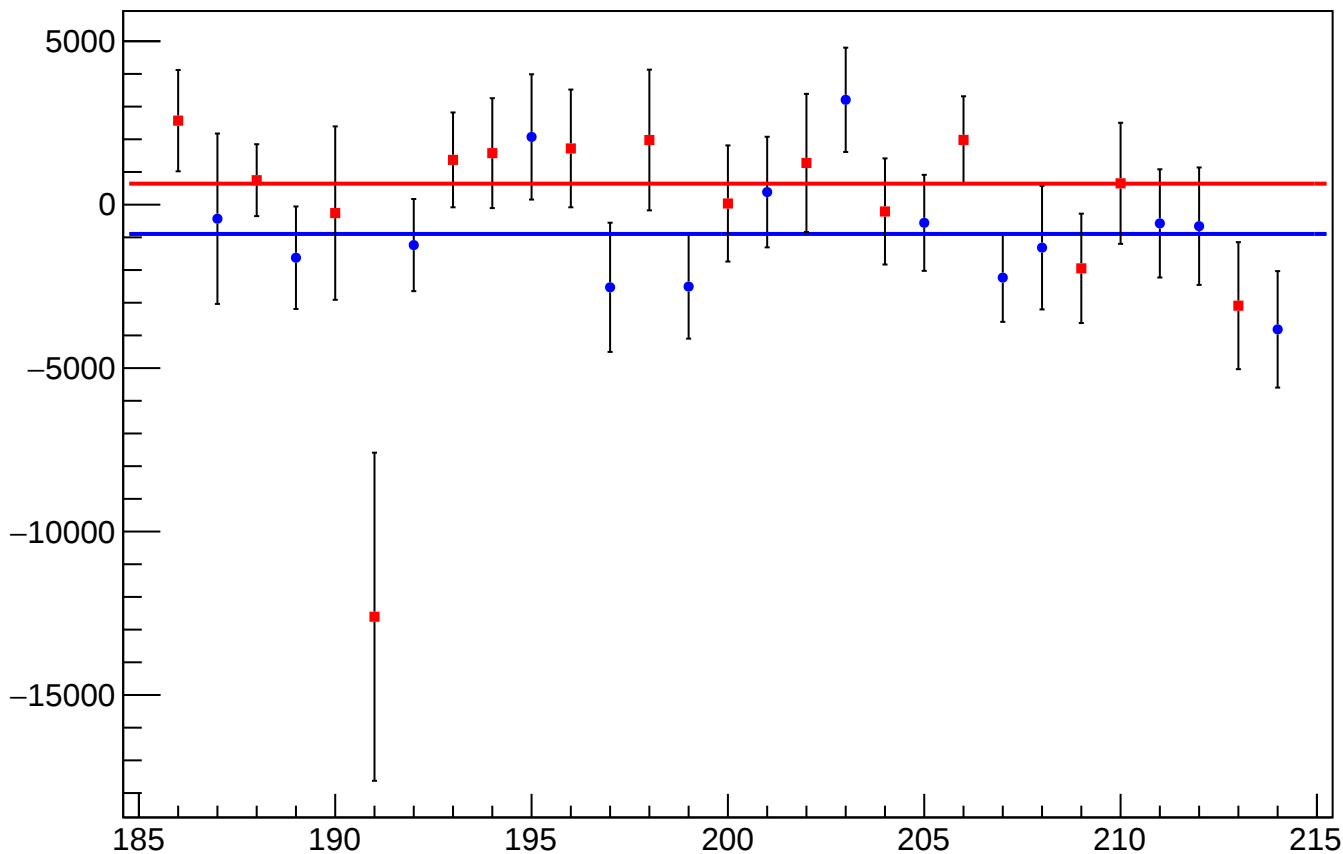
Right: 1356.487+/-0.168 χ^2/NDF : 1653193.9/64

In: 1350.481+/-0.165 χ^2/NDF : 843993.7/53

Out: 1363.266+/-0.164 χ^2/NDF : 1450101.7/58

All: 1356.915+/-0.116 χ^2/NDF : 2297117.0/11

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -895.465+/-447.222 χ^2/NDF : 15.4/13

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

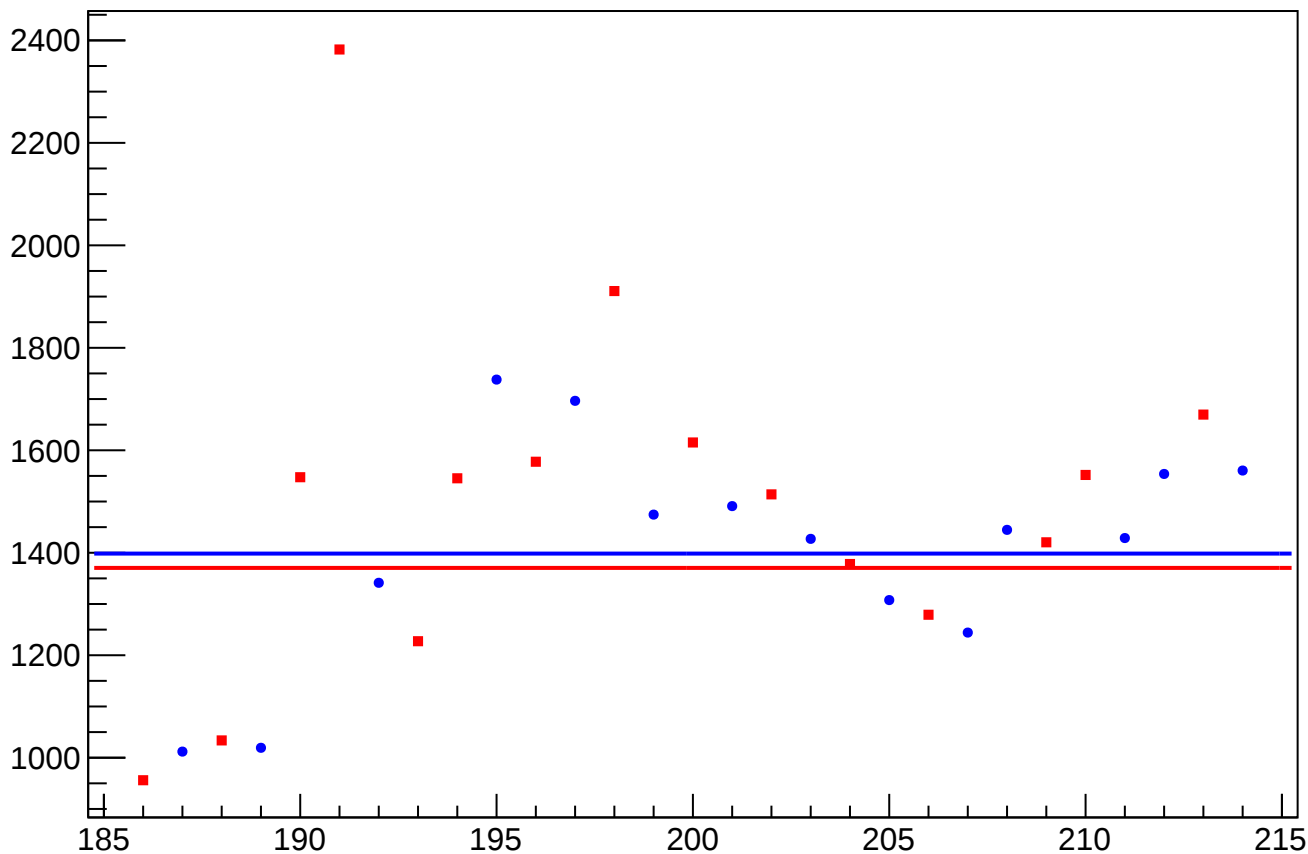
Right: -113.333+/-313.518 χ^2/NDF : 38.9/28

In: -895.465+/-447.222 χ^2/NDF : 15.4/13

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -113.333+/-313.518 χ^2/NDF : 38.9/28

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1398.399+/-0.316 χ^2/NDF : 350499.9/13

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

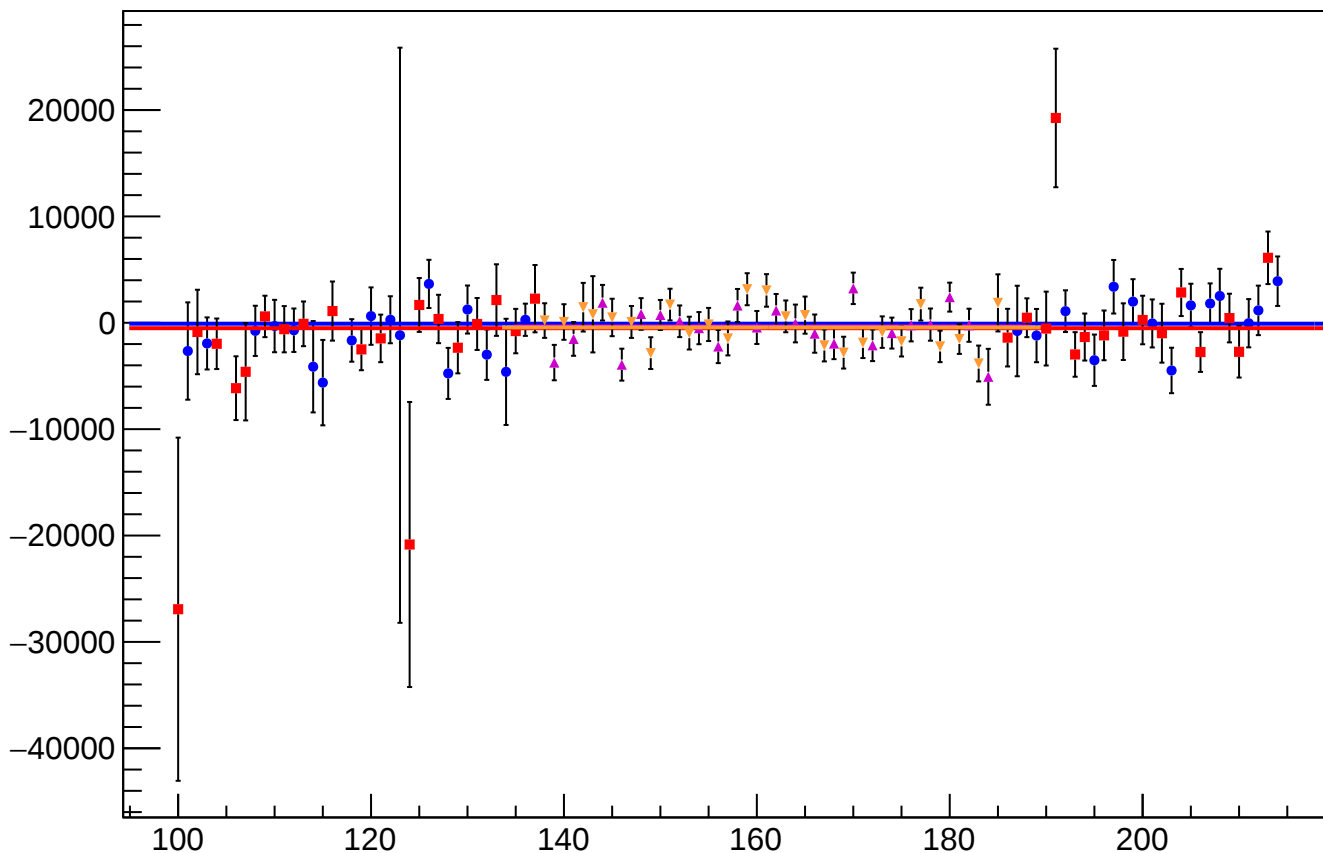
Right: 1384.188+/-0.222 χ^2/NDF : 1093815.2/28

In: 1398.399+/-0.316 χ^2/NDF : 350499.9/13

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1384.188+/-0.222 χ^2/NDF : 1093815.2/28

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -85.531 ± 430.010 $\chi^2/\text{NDF}: 29.5/30$

Left Out: -431.715 ± 320.540 $\chi^2/\text{NDF}: 33.1/24$

Right Out: -509.058 ± 428.422 $\chi^2/\text{NDF}: 37.8/33$

Left In: -343.737 ± 324.368 $\chi^2/\text{NDF}: 33.8/22$

Left: -388.248 ± 227.997 $\chi^2/\text{NDF}: 66.9/47$

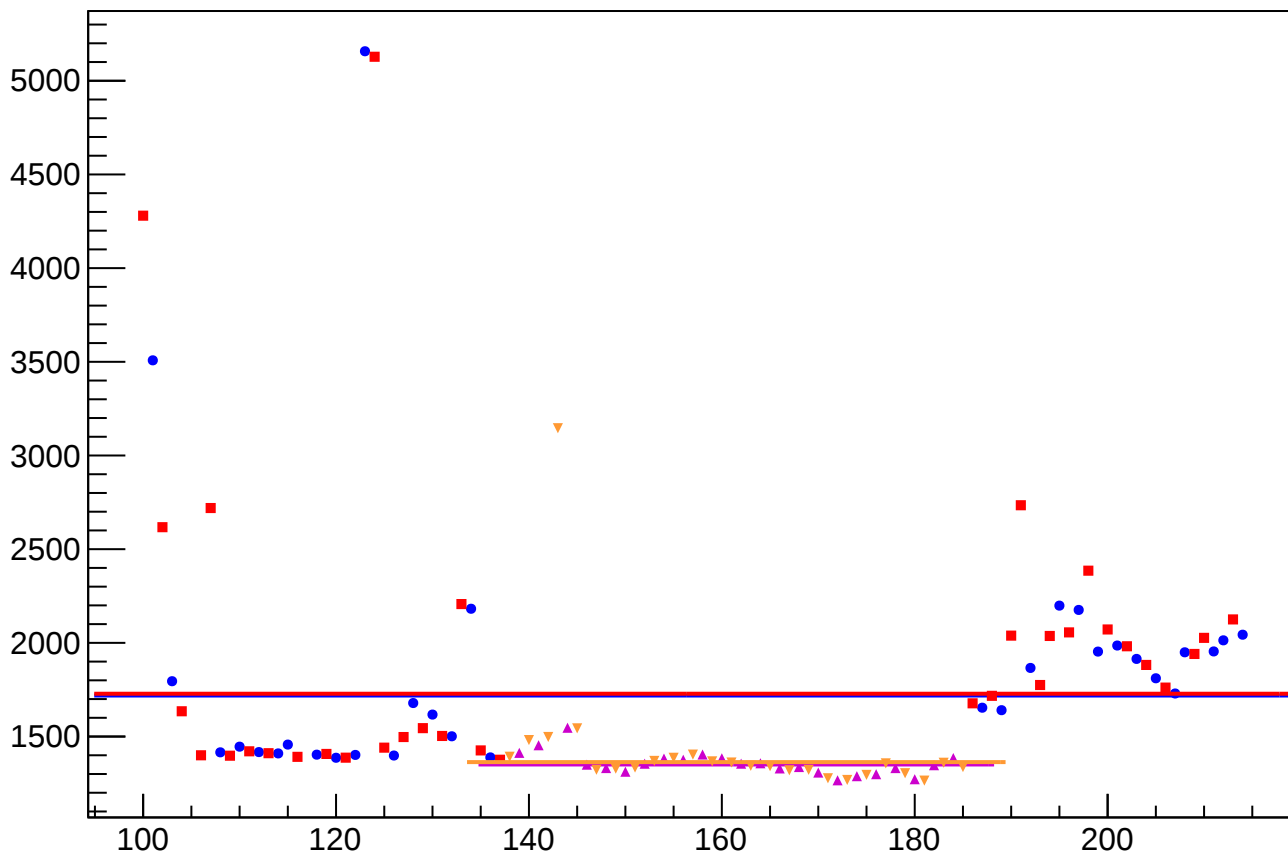
Right: -298.078 ± 303.500 $\chi^2/\text{NDF}: 67.9/64$

In: -250.097 ± 258.956 $\chi^2/\text{NDF}: 63.5/53$

Out: -459.472 ± 256.655 $\chi^2/\text{NDF}: 70.9/58$

All: -355.719 ± 182.291 $\chi^2/\text{NDF}: 134.8/112$

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1719.003 $\pm$ 0.304 χ^2 /NDF: 1096093.1/30

Left Out: 1363.561 $\pm$ 0.227 χ^2 /NDF: 575226.6/24

Right Out: 1728.447 $\pm$ 0.303 χ^2 /NDF: 1292639.3/33

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

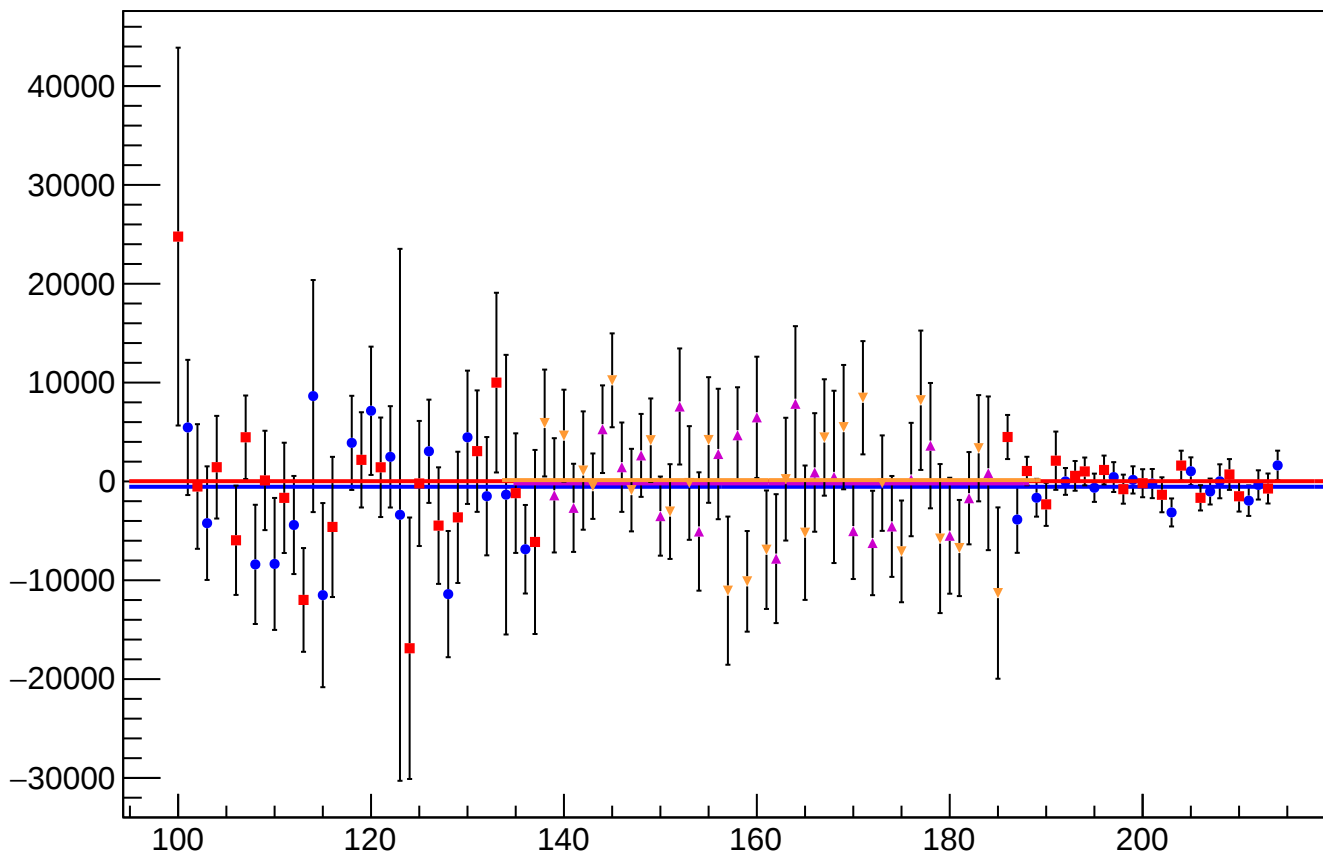
Right: 1723.742 $\pm$ 0.215 χ^2 /NDF: 2389216.5/64

In: 1484.400 $\pm$ 0.183 χ^2 /NDF: 2097278.0/53

Out: 1494.514 $\pm$ 0.181 χ^2 /NDF: 2797984.0/58

All: 1489.503 $\pm$ 0.129 χ^2 /NDF: 4896801.0/111

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -541.205+/-392.116 χ^2/NDF : 25.4/30

Left Out: 132.142+/-1065.543 χ^2/NDF :28.1/24

Right Out: 22.961+/-390.919 χ^2/NDF : 27.1/33

Left In: -200.182+/-1123.499 χ^2/NDF :14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

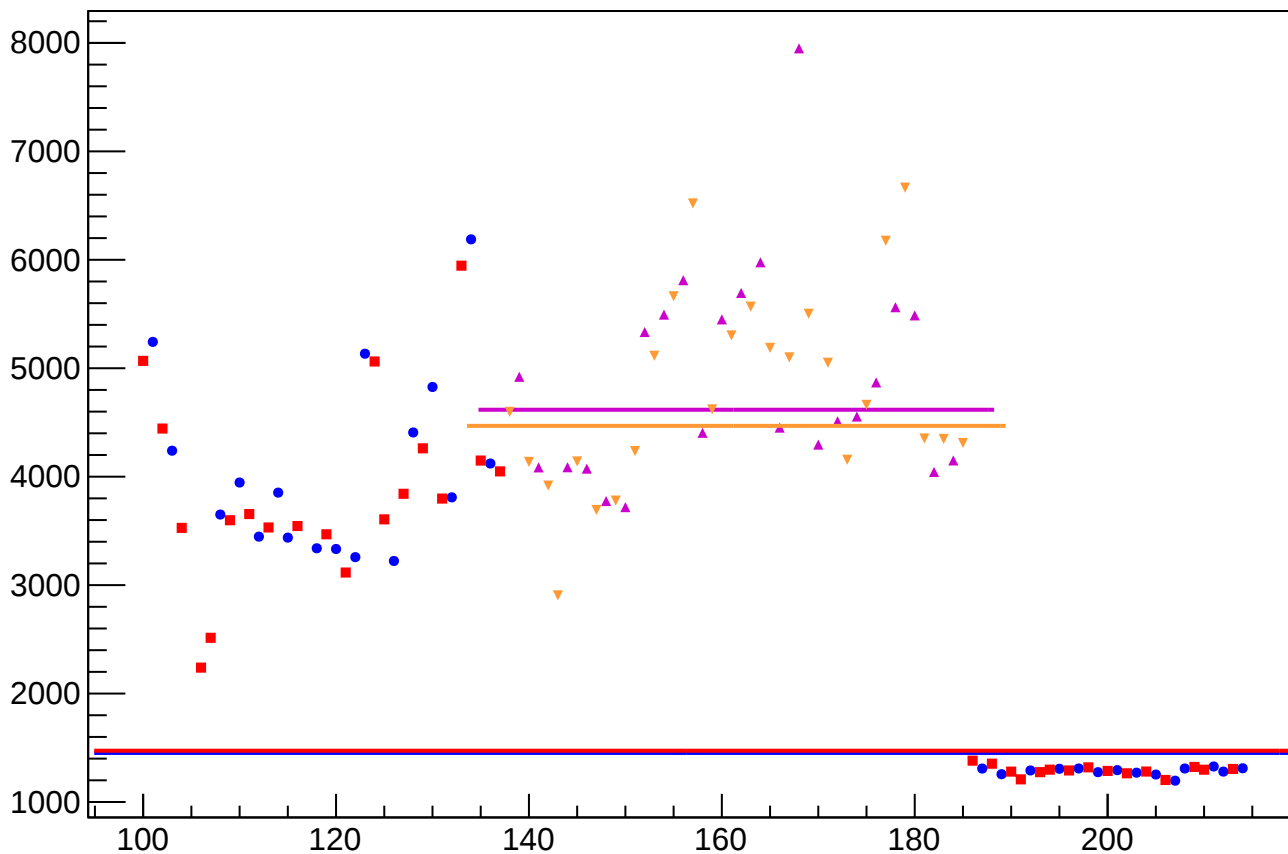
Right: -258.259+/-276.844 χ^2/NDF : 53.5/64

In: -504.175+/-370.216 χ^2/NDF :40.2/53

Out: 35.913+/-367.000 χ^2/NDF :55.2/58

All: -231.775+/-260.638 χ^2/NDF : 96.5/112

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1452.502 $\pm$ 0.277 χ^2 /NDF: 5668228.9/30

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF:1380601.0/24

Right Out: 1473.008 $\pm$ 0.276 χ^2 /NDF: 5482209.3/33

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

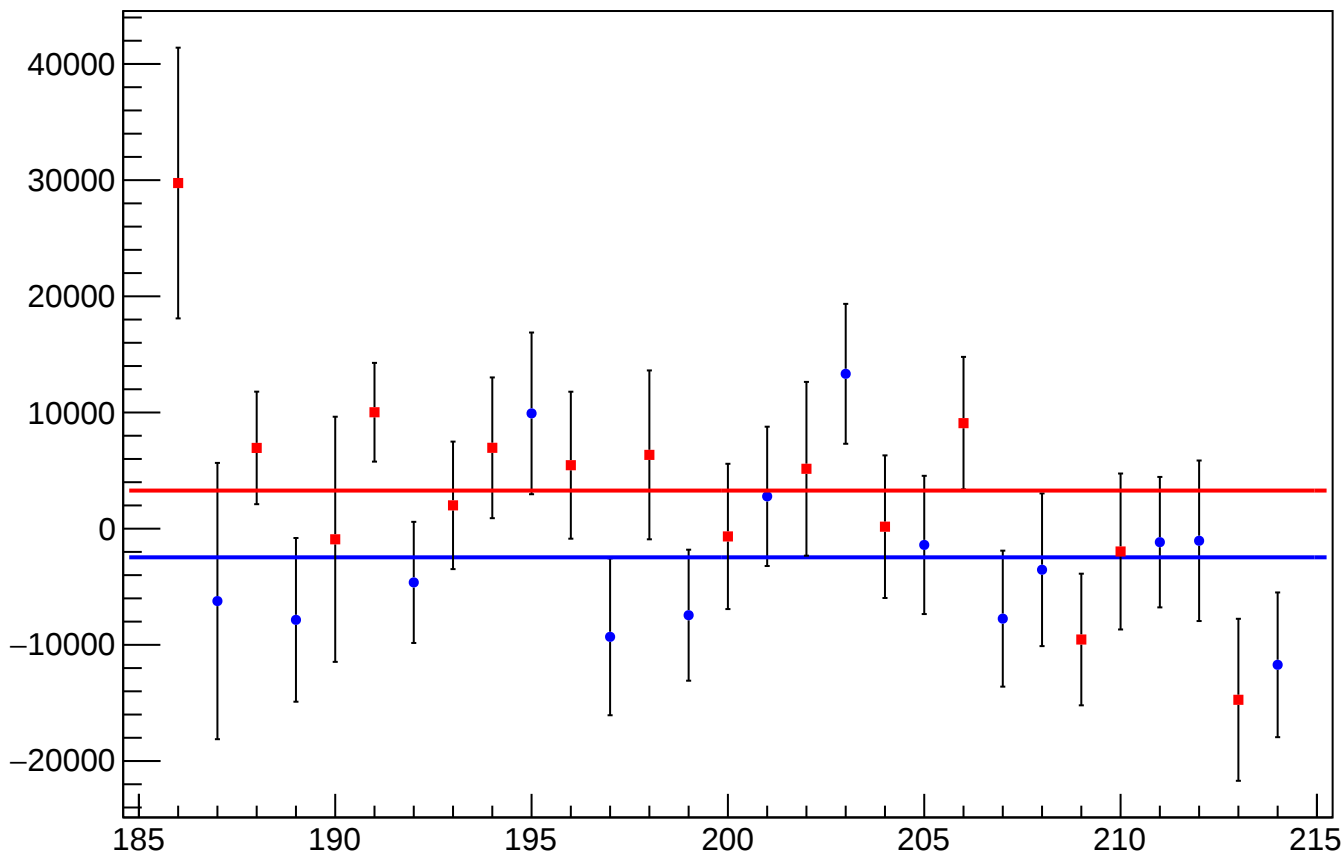
Right: 1462.794 $\pm$ 0.196 χ^2 /NDF: 11153183.4/64

In: 1796.146 $\pm$ 0.262 χ^2 /NDF:20814527.7/53

Out: 1827.898 $\pm$ 0.259 χ^2 /NDF:20796476.8/58

All: 1812.171 $\pm$ 0.184 χ^2 /NDF: 41618429.5/111

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -2466.093+/-1684.280 χ^2/NDF : 16.7/13

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

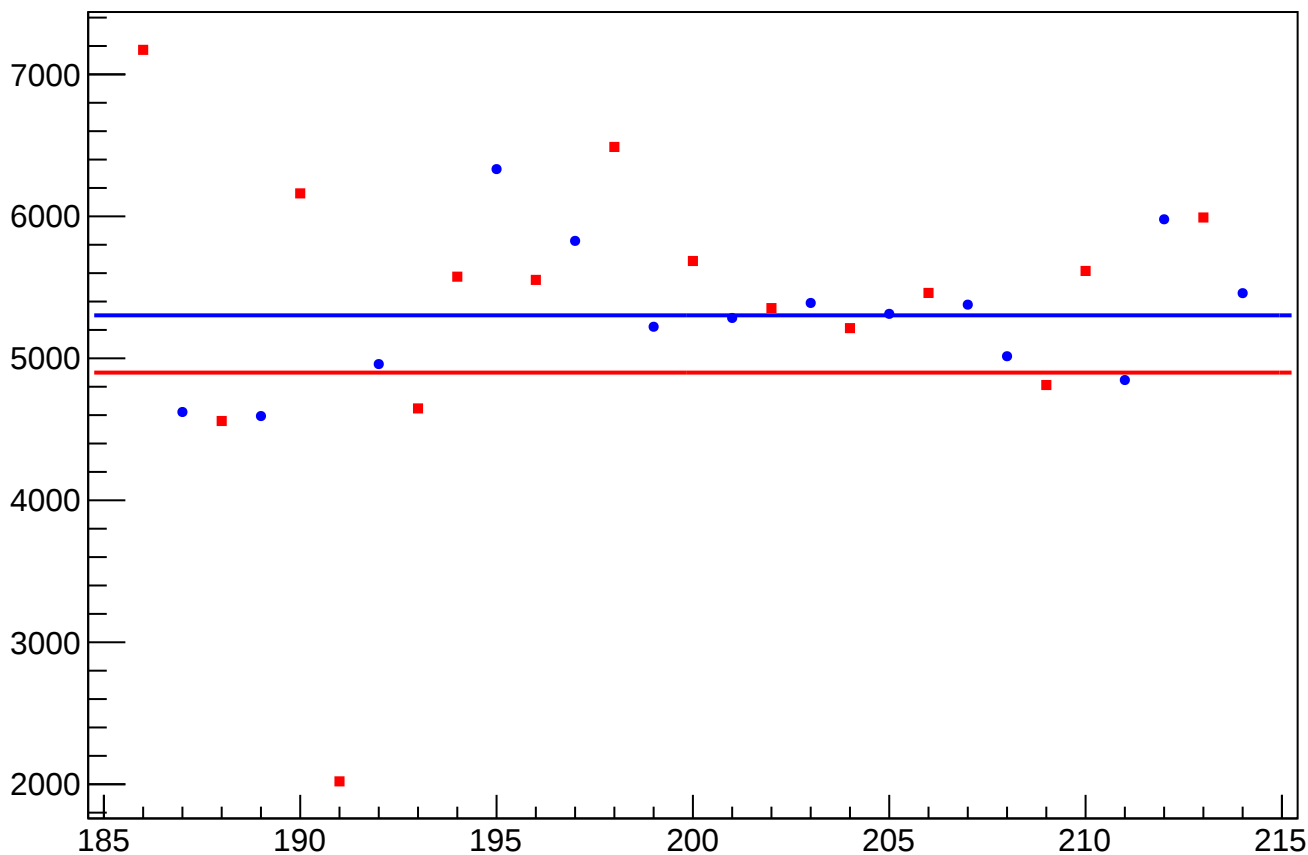
Right: 564.133+/-1157.868 χ^2/NDF : 46.1/28

In: -2466.093+/-1684.280 χ^2/NDF : 16.7/13

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 564.133+/-1157.868 χ^2/NDF : 46.1/28

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5302.801+/-1.191 χ^2/NDF : 130012.1/13

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

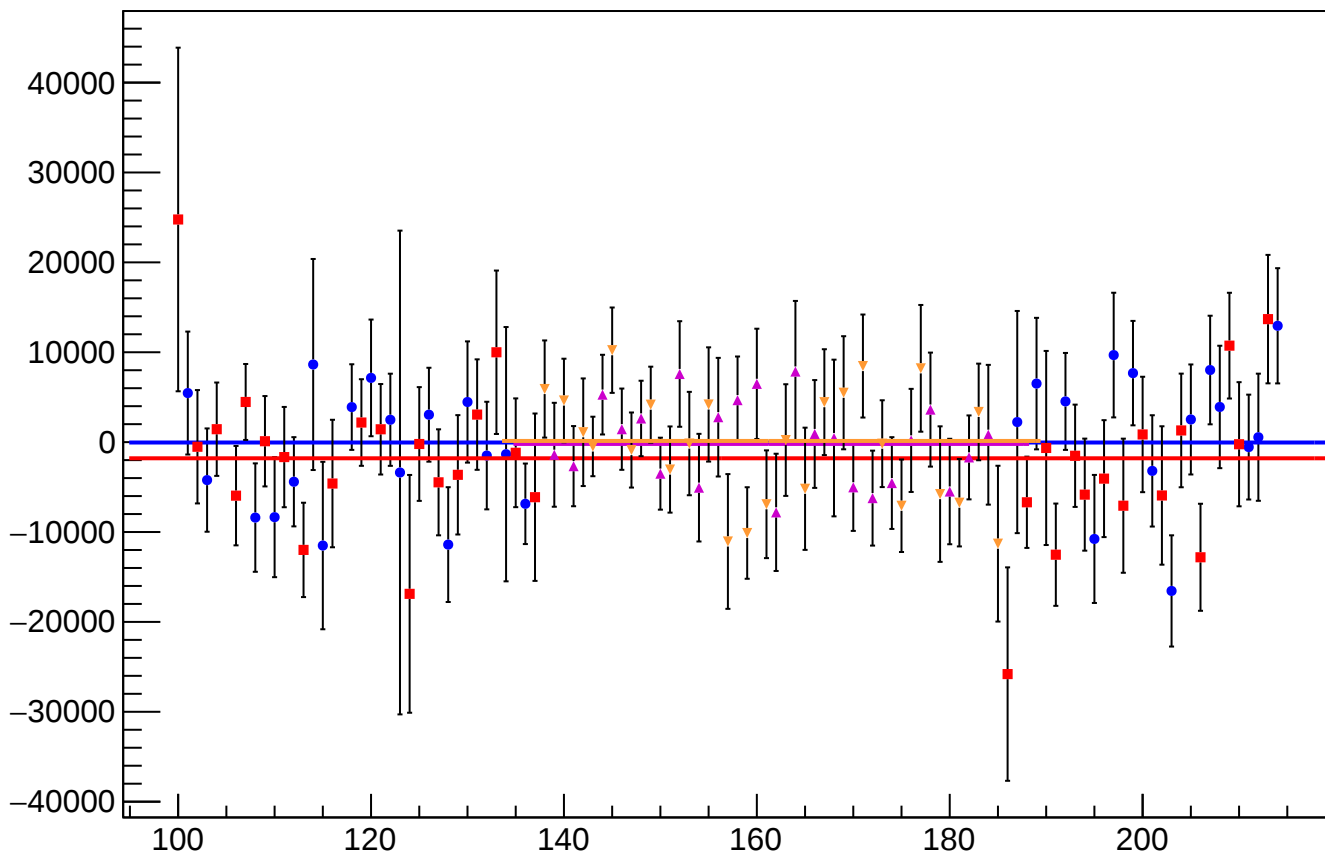
Right: 5090.119+/-0.819 χ^2/NDF : 1505095.2/28

In: 5302.801+/-1.191 χ^2/NDF : 130012.1/13

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5090.119+/-0.819 χ^2/NDF : 1505095.2/28

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -41.807 ± 1142.955 $\chi^2/\text{NDF}: 37.3/30$

Left Out: 132.142 ± 1065.543 $\chi^2/\text{NDF}: 28.1/24$

Right Out: -1797.397 ± 1071.445 $\chi^2/\text{NDF}: 37.5/33$

Left In: -200.182 ± 1123.499 $\chi^2/\text{NDF}: 14.7/22$

Left: -25.227 ± 773.130 $\chi^2/\text{NDF}: 42.9/47$

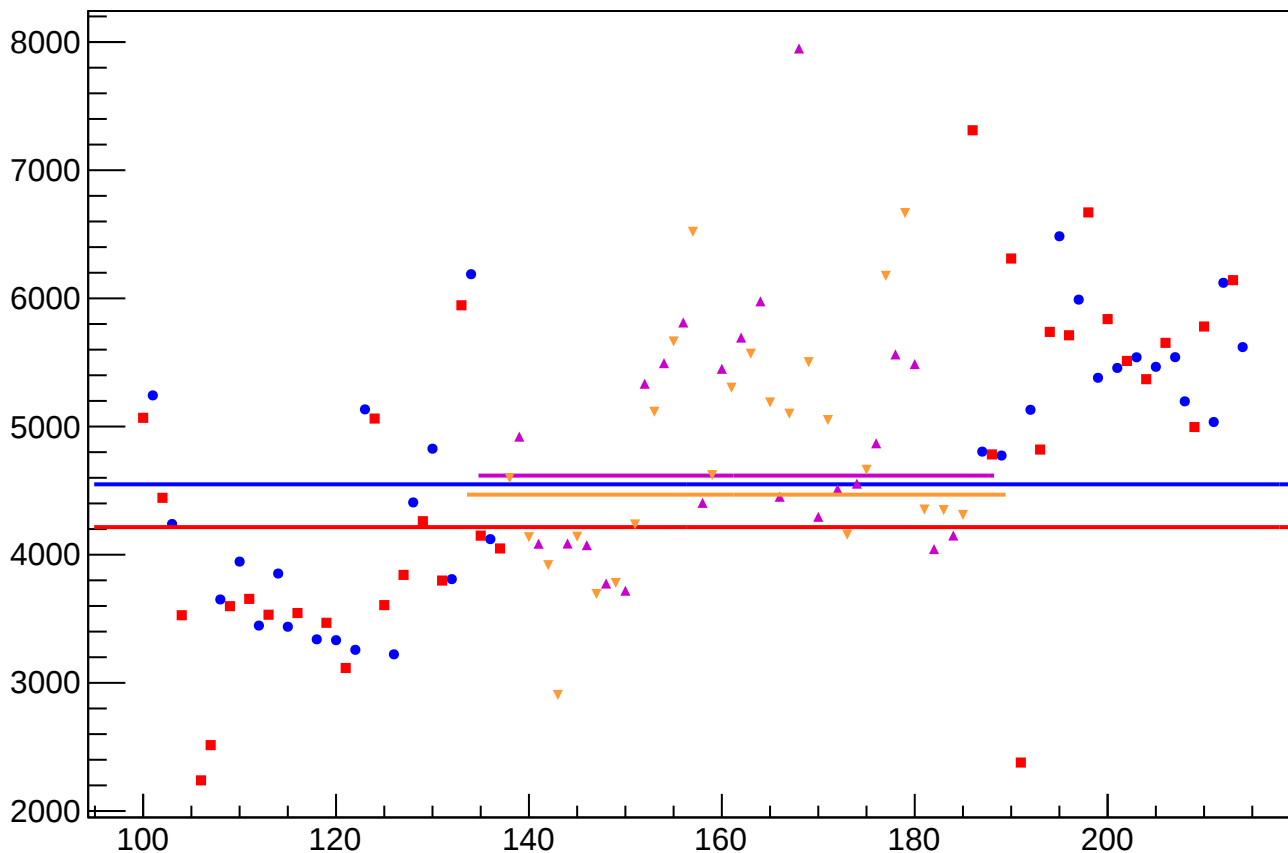
Right: -976.236 ± 781.685 $\chi^2/\text{NDF}: 76.1/64$

In: -122.354 ± 801.224 $\chi^2/\text{NDF}: 52.1/53$

Out: -827.298 ± 755.531 $\chi^2/\text{NDF}: 67.3/58$

All: -495.499 ± 549.685 $\chi^2/\text{NDF}: 119.8/112$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4549.122 $\pm$ 0.808 χ^2 /NDF: 1438137.1/30

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

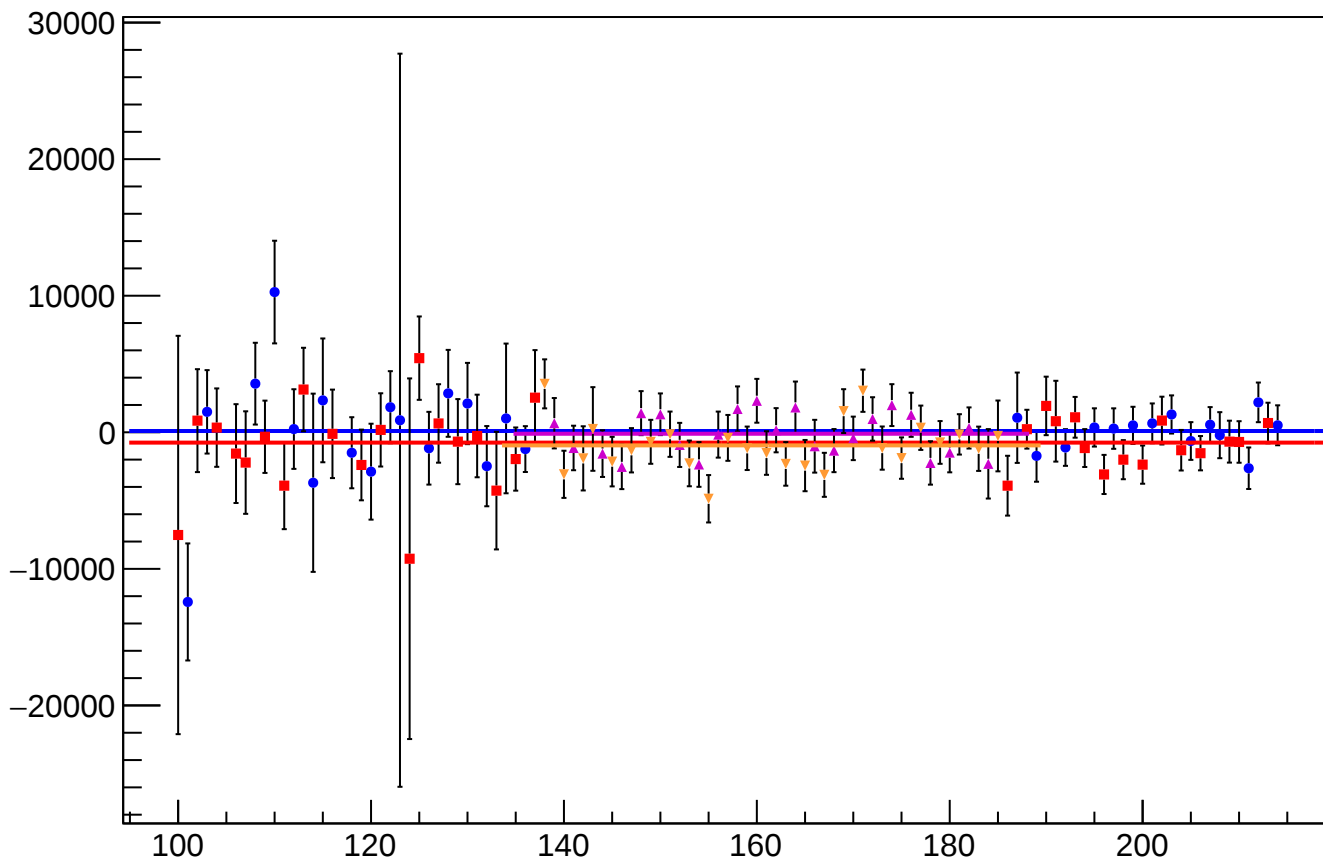
Right: 4370.497 $\pm$ 0.551 χ^2 /NDF: 4150167.7/64

In: 4583.792 $\pm$ 0.567 χ^2 /NDF:2441355.5/53

Out: 4341.883 $\pm$ 0.533 χ^2 /NDF:4057821.9/58

All: 4455.410 $\pm$ 0.388 χ^2 /NDF: 6595934.9/111

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 93.987 ± 352.896 χ^2/NDF : 31.1/30

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

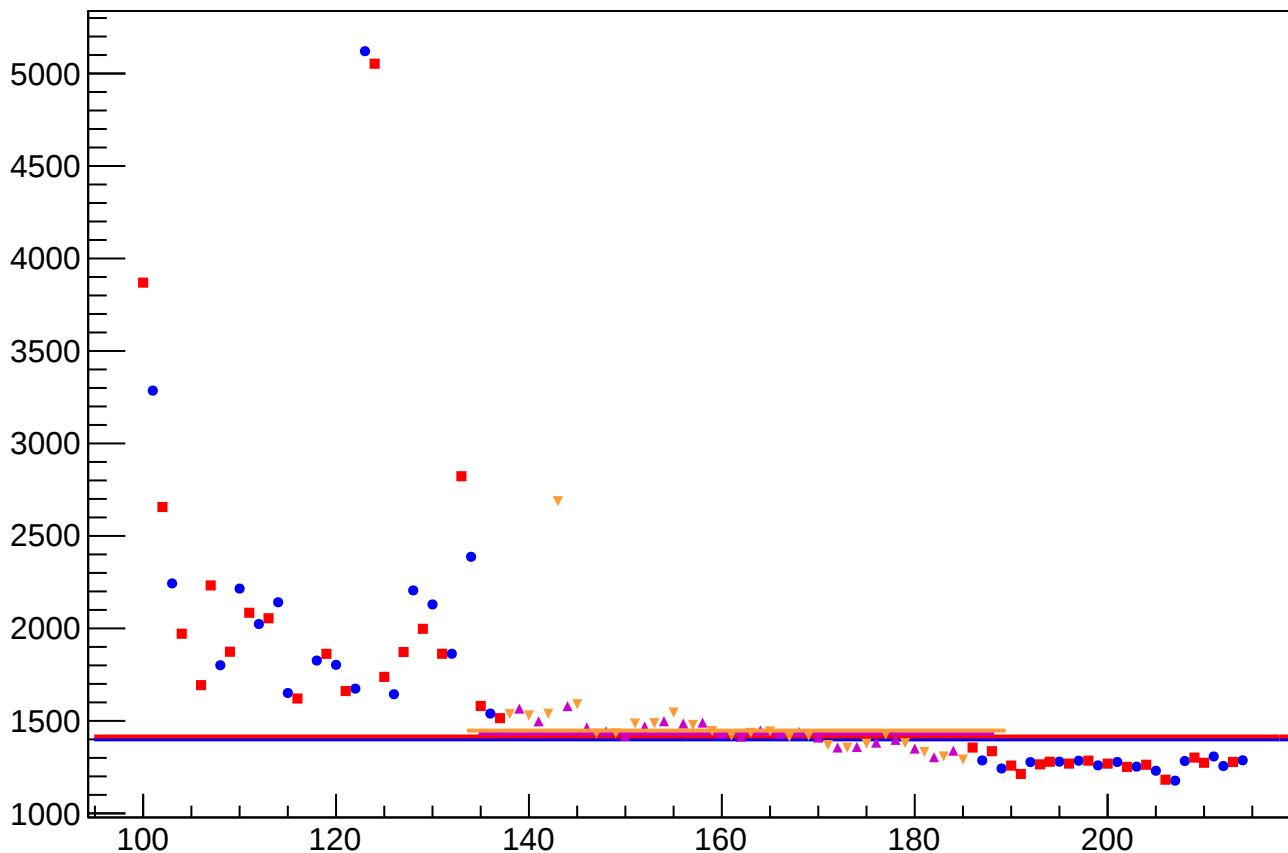
Right: -331.874 ± 249.309 χ^2/NDF : 57.6/64

In: -9.433 ± 246.206 χ^2/NDF : 50.7/53

Out: -861.029 ± 244.447 χ^2/NDF : 52.3/58

All: -438.285 ± 173.469 χ^2/NDF : 109.0/112

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1400.153+/-0.250 χ^2/NDF : 1582652.0/30

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

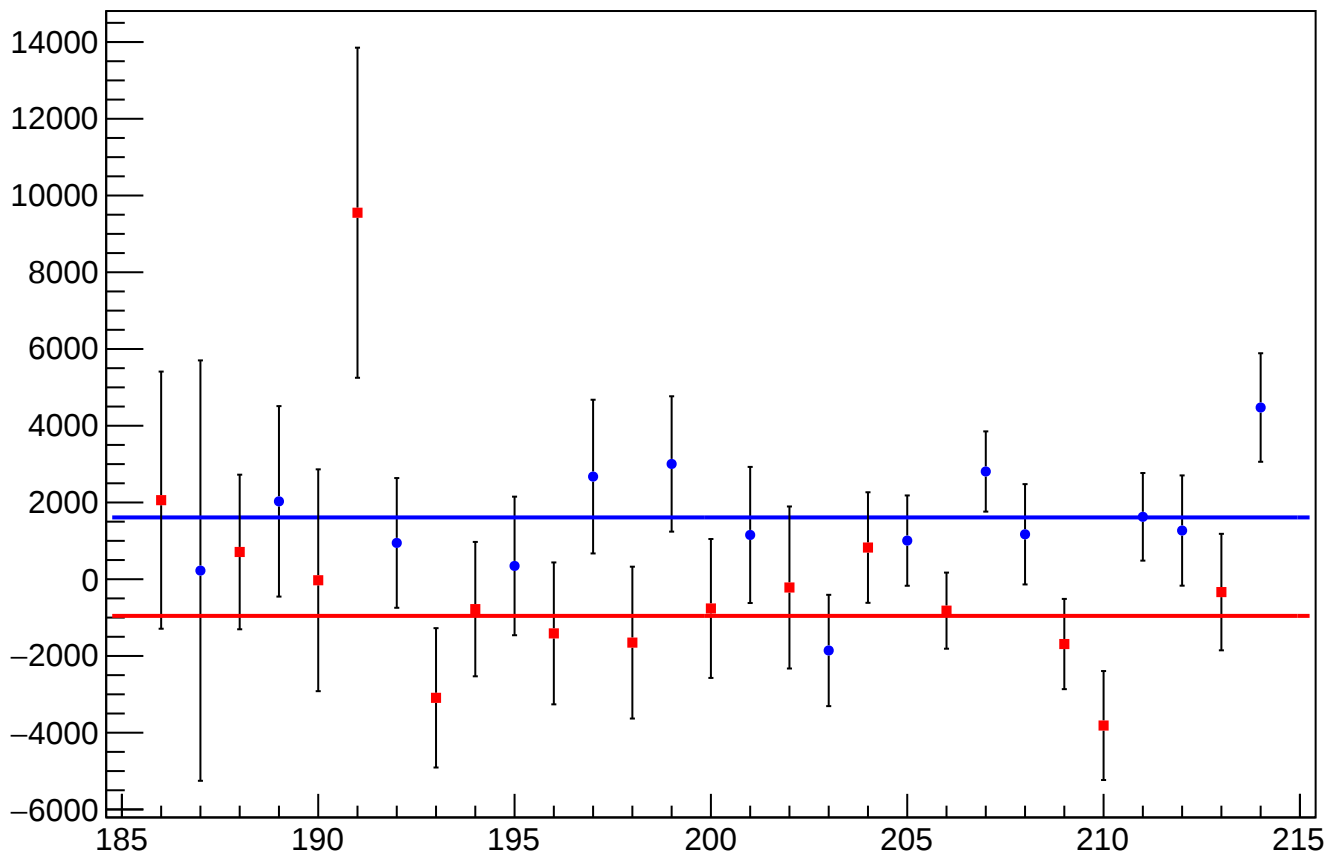
Right: 1407.889+/-0.176 χ^2/NDF : 3204068.1/64

In: 1416.219+/-0.174 χ^2/NDF : 1665859.2/53

Out: 1432.165+/-0.173 χ^2/NDF : 2047285.5/58

All: 1424.249+/-0.123 χ^2/NDF : 3717369.7/111

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1610.633+/-401.960 χ^2/NDF : 13.3/13

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -955.667+/-431.633 χ^2/NDF : 15.4/14

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

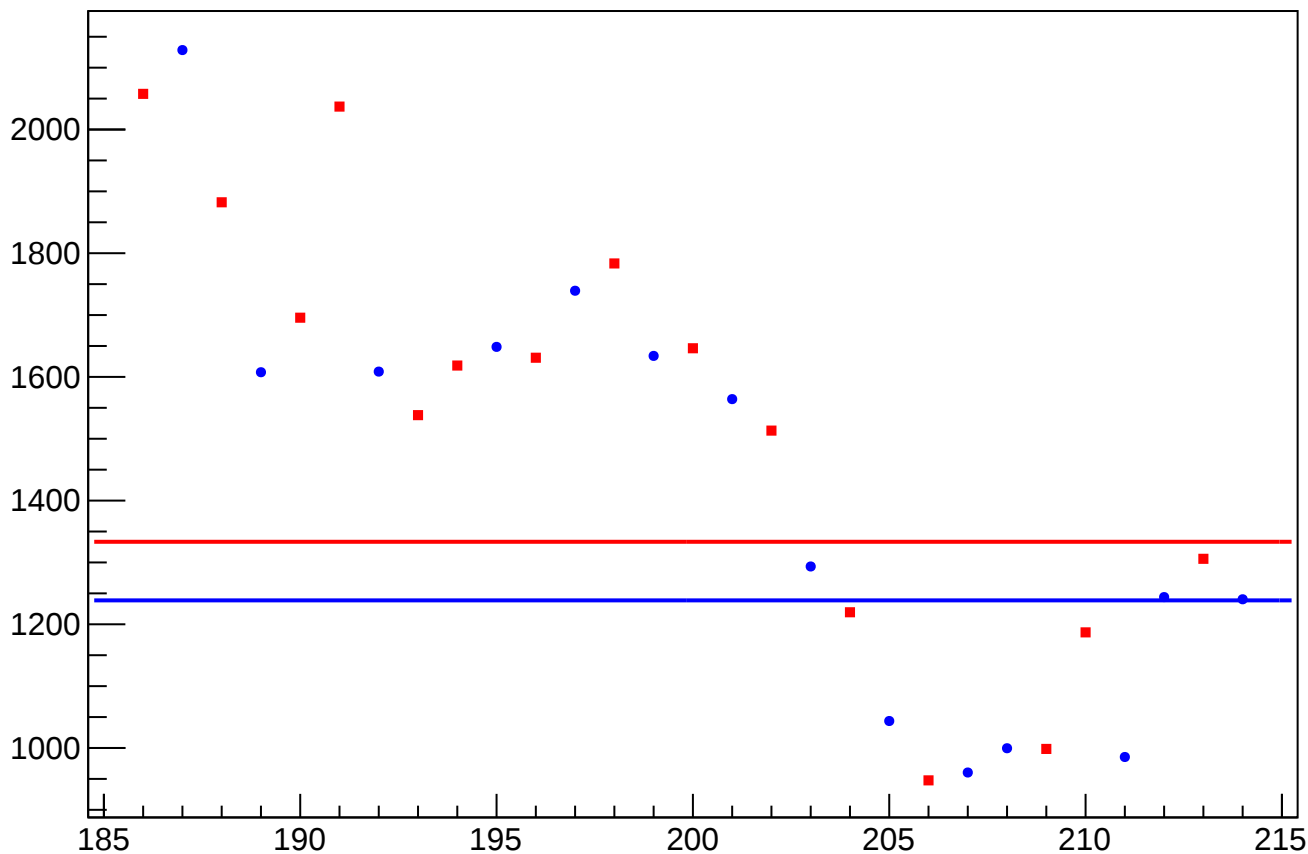
Right: 418.718+/-294.160 χ^2/NDF : 47.6/28

In: 1610.633+/-401.960 χ^2/NDF : 13.3/13

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 418.718+/-294.160 χ^2/NDF : 47.6/28

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1238.660+/-0.284 χ^2/NDF : 953268.3/13

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

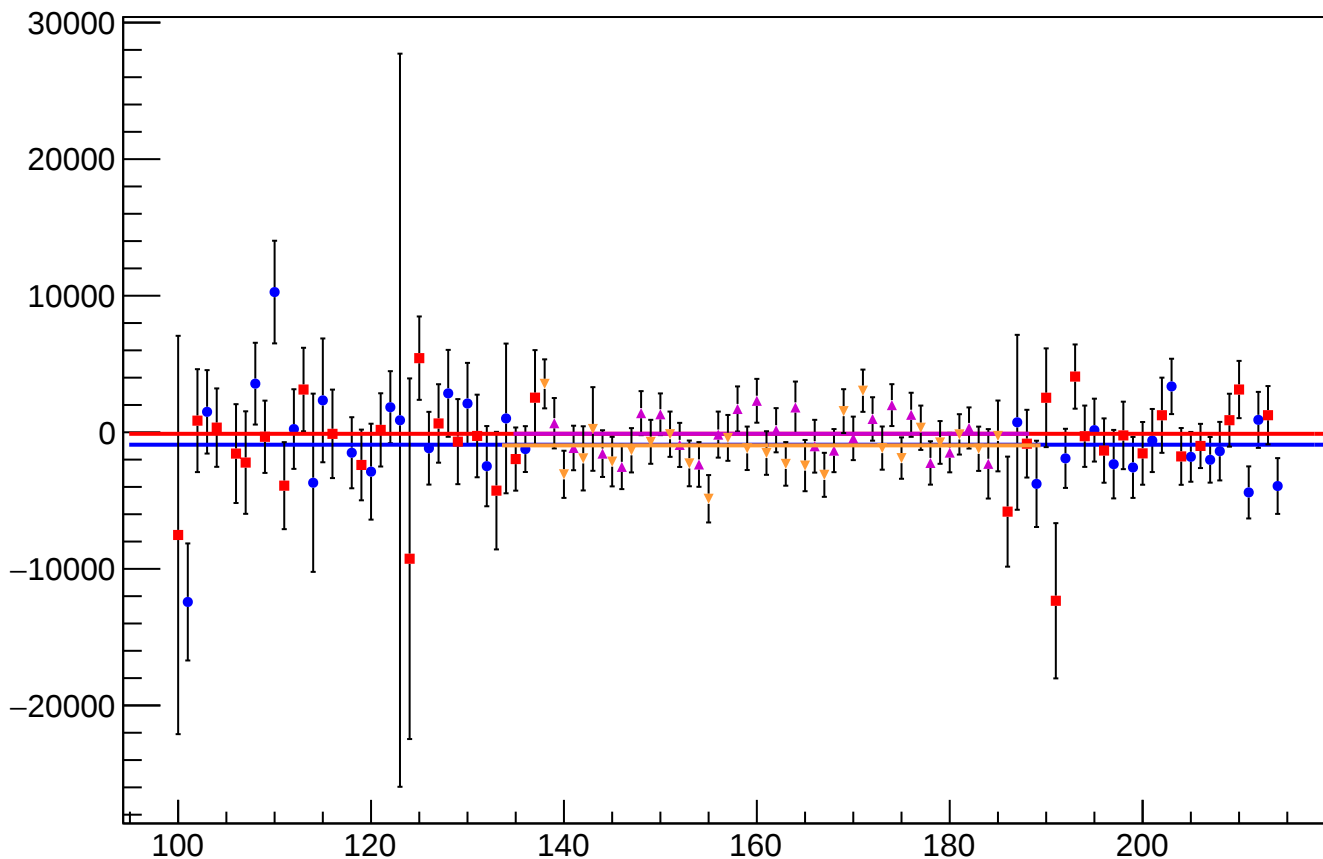
Right: 1282.667+/-0.208 χ^2/NDF : 2138946.9/28

In: 1238.660+/-0.284 χ^2/NDF :953268.3/13

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 1282.667+/-0.208 χ^2/NDF : 2138946.9/28

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -909.413+/-460.703 χ^2/NDF : 37.8/30

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

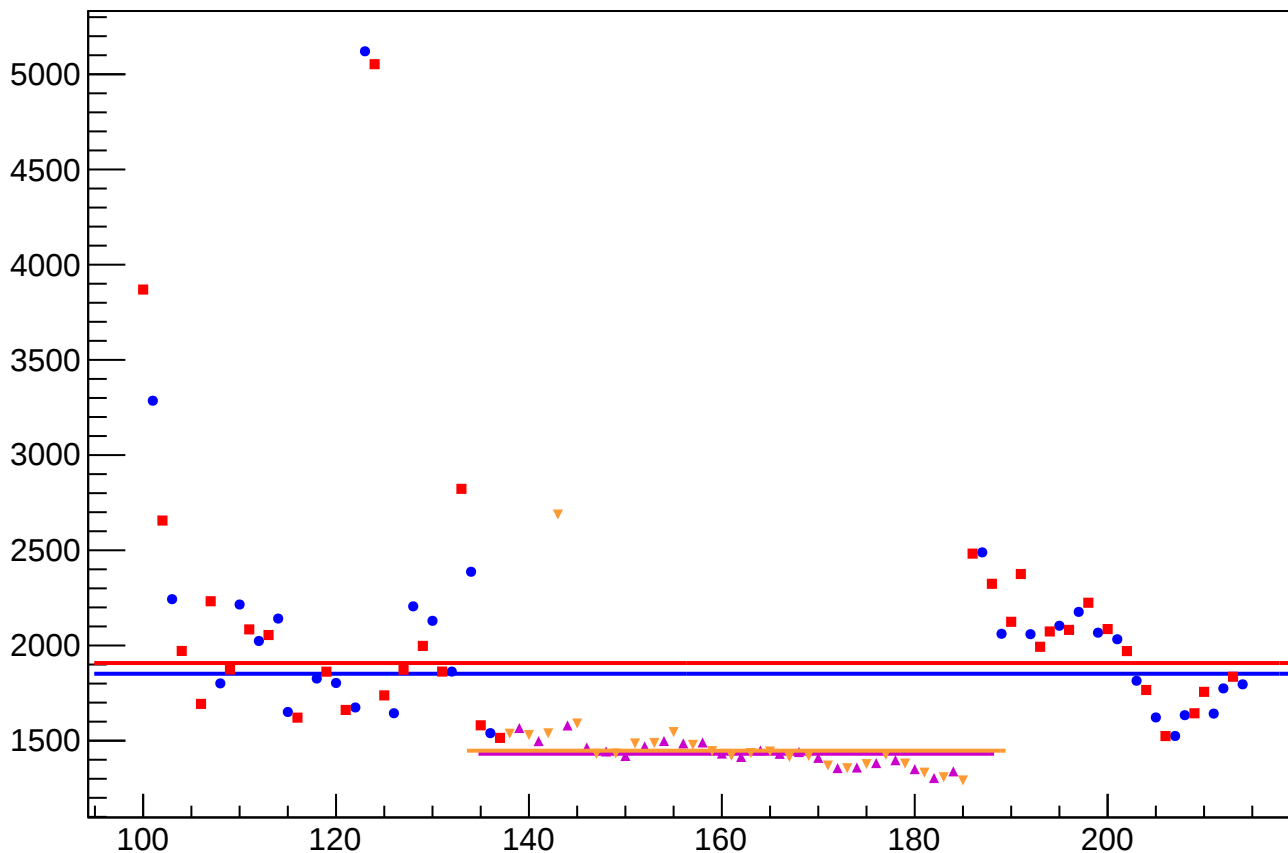
Right: -517.317+/-328.616 χ^2/NDF : 64.8/64

In: -394.200+/-275.464 χ^2/NDF : 59.2/53

Out: -667.008+/-274.981 χ^2/NDF : 56.2/58

All: -530.844+/-194.612 χ^2/NDF : 115.9/112

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1851.615 $\pm$ 0.326 χ^2 /NDF: 766300.1/30

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

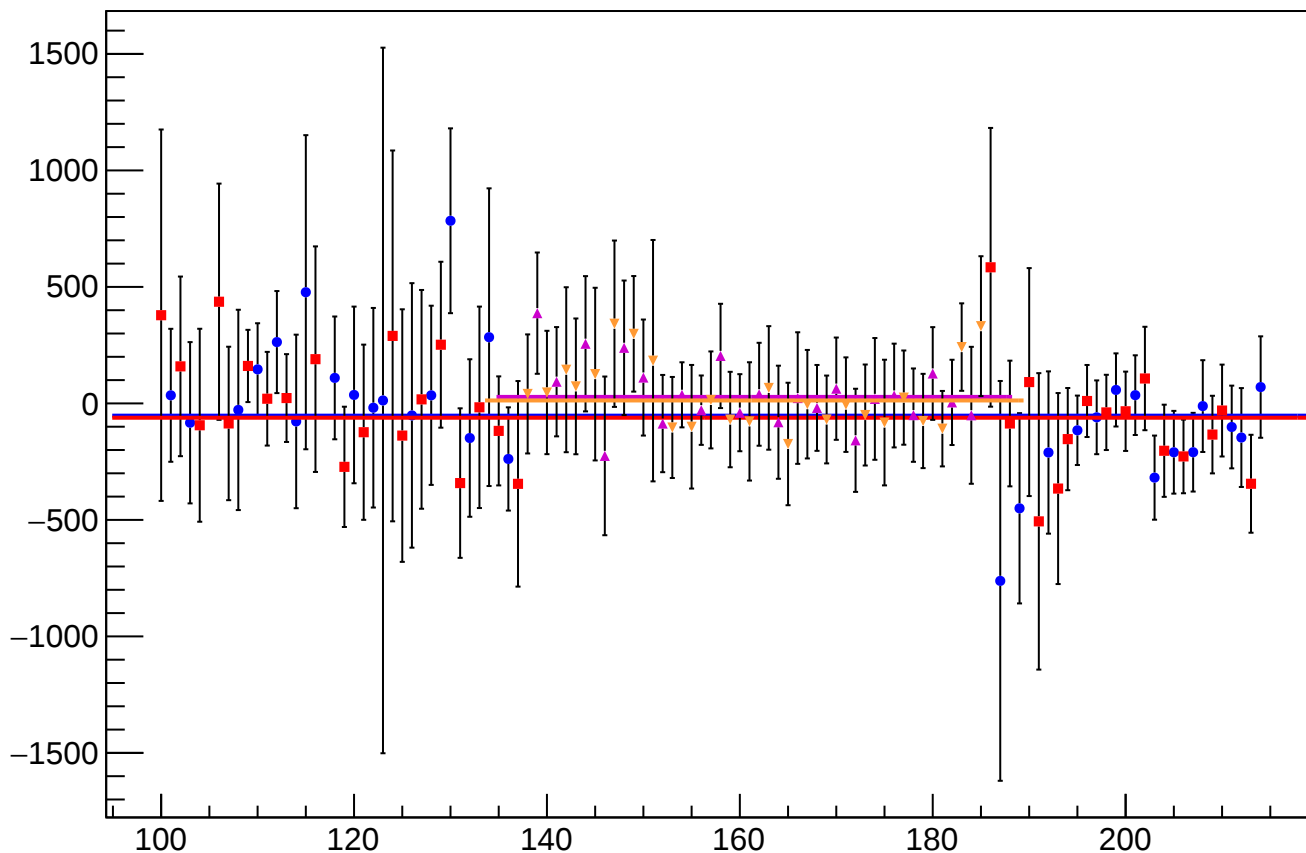
Right: 1879.246 $\pm$ 0.232 χ^2 /NDF: 1600781.8/64

In: 1581.667 $\pm$ 0.195 χ^2 /NDF: 1910197.2/53

Out: 1605.881 $\pm$ 0.194 χ^2 /NDF: 2503728.4/58

All: 1593.796 $\pm$ 0.138 χ^2 /NDF: 4421666.0/111

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -52.602 ± 43.419 $\chi^2/\text{NDF}: 17.0/30$

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 $\chi^2/\text{NDF}: 14.3/47$

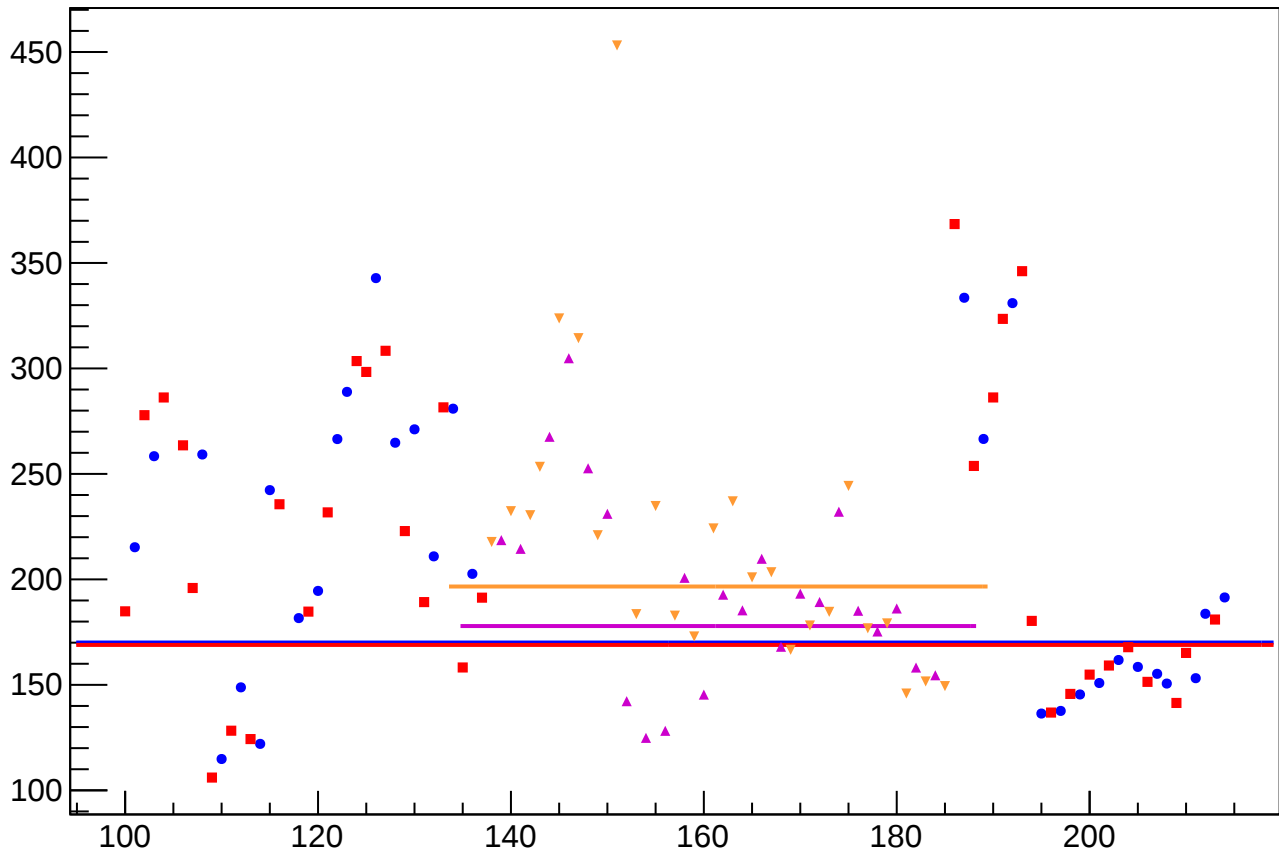
Right: -57.068 ± 30.581 $\chi^2/\text{NDF}: 31.3/64$

In: -13.352 ± 31.085 $\chi^2/\text{NDF}: 25.3/53$

Out: -28.020 ± 31.906 $\chi^2/\text{NDF}: 23.2/58$

All: -20.495 ± 22.265 $\chi^2/\text{NDF}: 48.6/112$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.063+/-0.031 χ^2/NDF : 2156982.2/30

Left Out: 196.620+/-0.034 χ^2/NDF :1793507.9/24

Right Out: 168.937+/-0.030 χ^2/NDF : 2838720.3/33

Left In: 177.878+/-0.031 χ^2/NDF :1644086.7/22

Left: 186.646+/-0.023 χ^2/NDF : 3603390.3/47

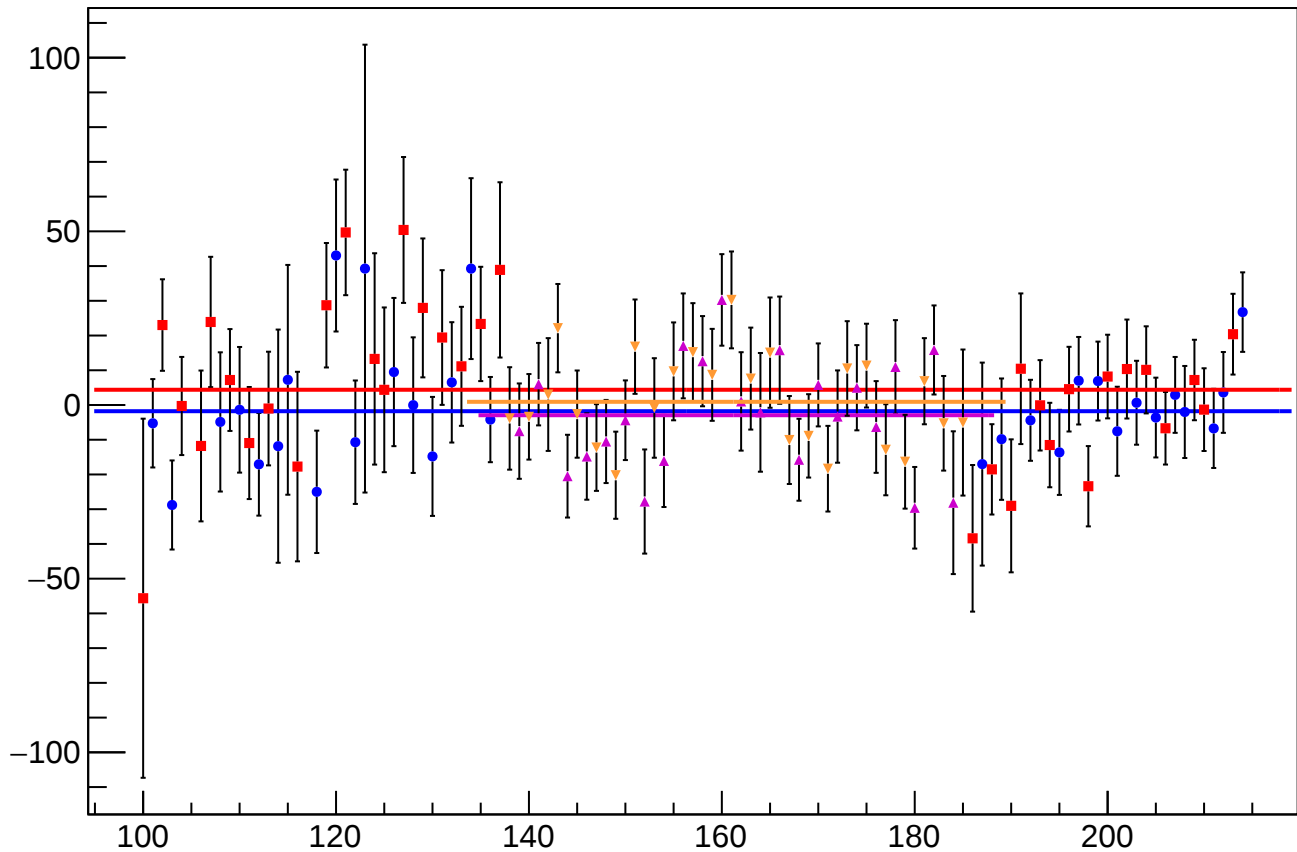
Right: 169.496+/-0.022 χ^2/NDF : 4996381.0/64

In: 173.872+/-0.022 χ^2/NDF :3832647.3/53

Out: 181.434+/-0.023 χ^2/NDF :5005087.1/58

All: 177.555+/-0.016 χ^2/NDF : 8895367.4/112

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.785 ± 2.650 χ^2/NDF : 25.6/30

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 4.389 ± 2.636 χ^2/NDF : 46.9/33

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

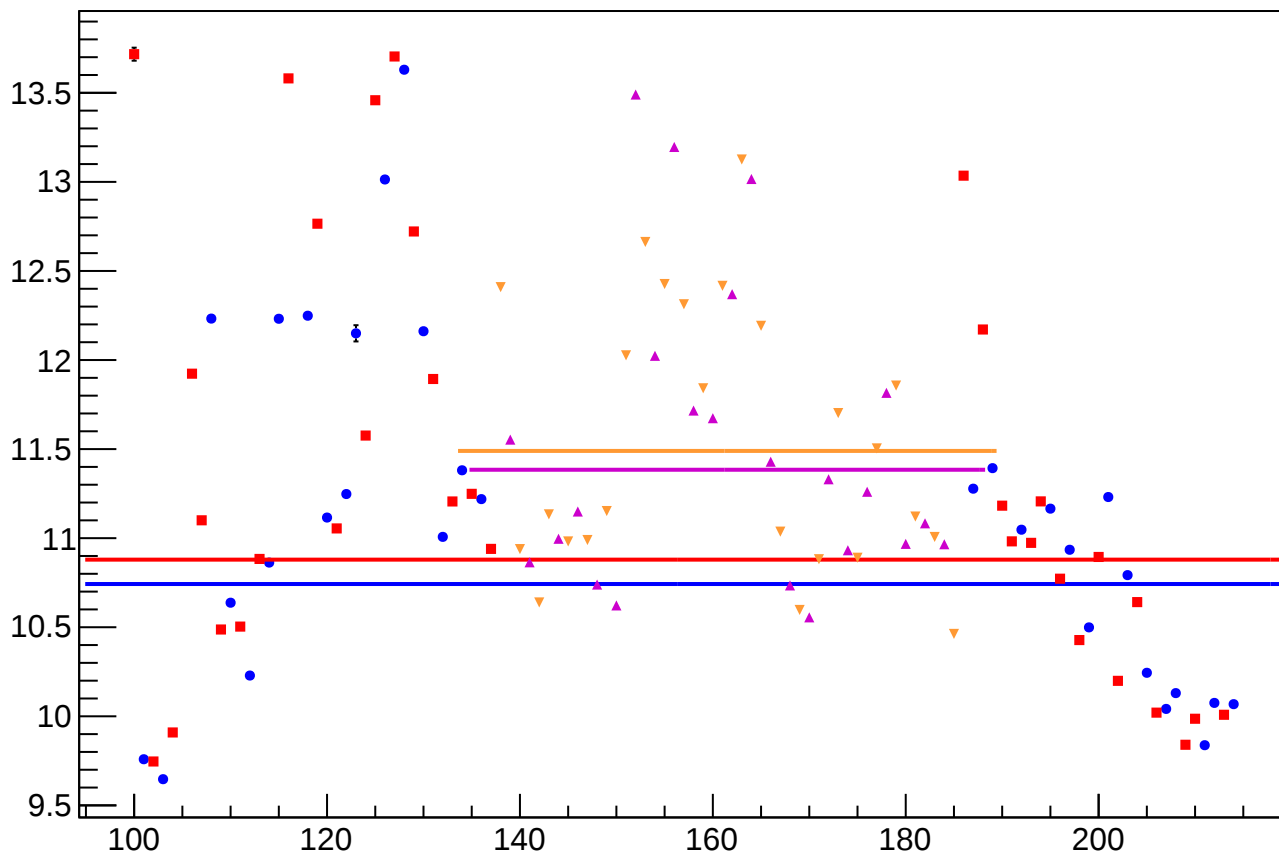
Right: 1.319 ± 1.869 χ^2/NDF : 75.2/64

In: -2.343 ± 1.906 χ^2/NDF : 56.7/53

Out: 2.694 ± 1.885 χ^2/NDF : 71.7/58

All: 0.204 ± 1.340 χ^2/NDF : 132.0/112

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.743+/-0.002 χ^2/NDF : 200663.1/30

Left Out: 11.490+/-0.002 χ^2/NDF : 132399.1/24

Right Out: 10.879+/-0.002 χ^2/NDF : 267939.7/33

Left In: 11.384+/-0.002 χ^2/NDF : 149799.6/22

Left: 11.438+/-0.001 χ^2/NDF : 283707.5/47

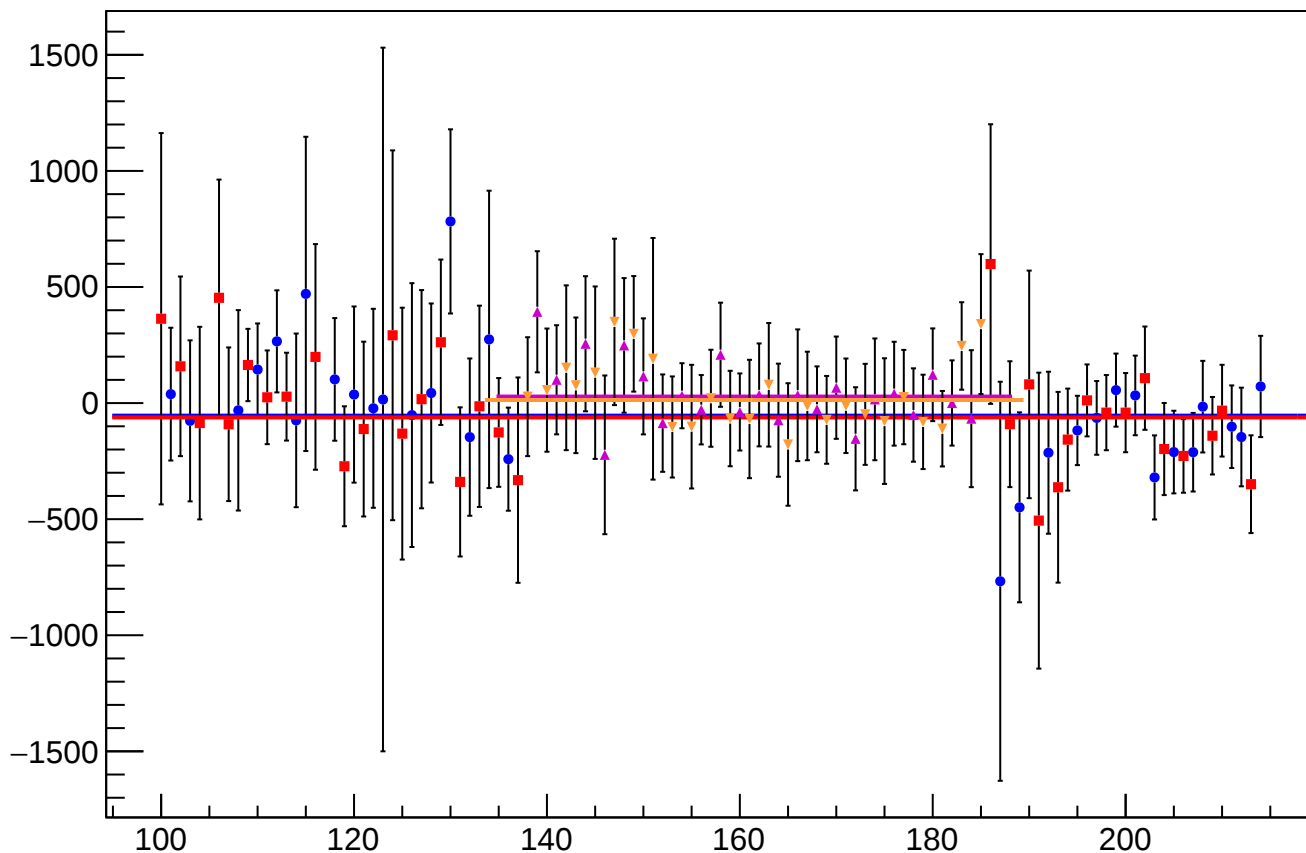
Right: 10.811+/-0.001 χ^2/NDF : 471284.4/64

In: 11.052+/-0.001 χ^2/NDF : 407000.2/53

Out: 11.178+/-0.001 χ^2/NDF : 452742.2/58

All: 11.116+/-0.001 χ^2/NDF : 864133.5/112

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -54.069 $\pm$ 43.524 χ^2 /NDF: 17.0/30

Left Out: 13.323 $\pm$ 47.662 χ^2 /NDF:7.9/24

Right Out: -61.828 $\pm$ 43.191 χ^2 /NDF: 14.4/33

Left In: 28.050 $\pm$ 44.681 χ^2 /NDF:6.6/22

Left: 21.161 $\pm$ 32.597 χ^2 /NDF: 14.6/47

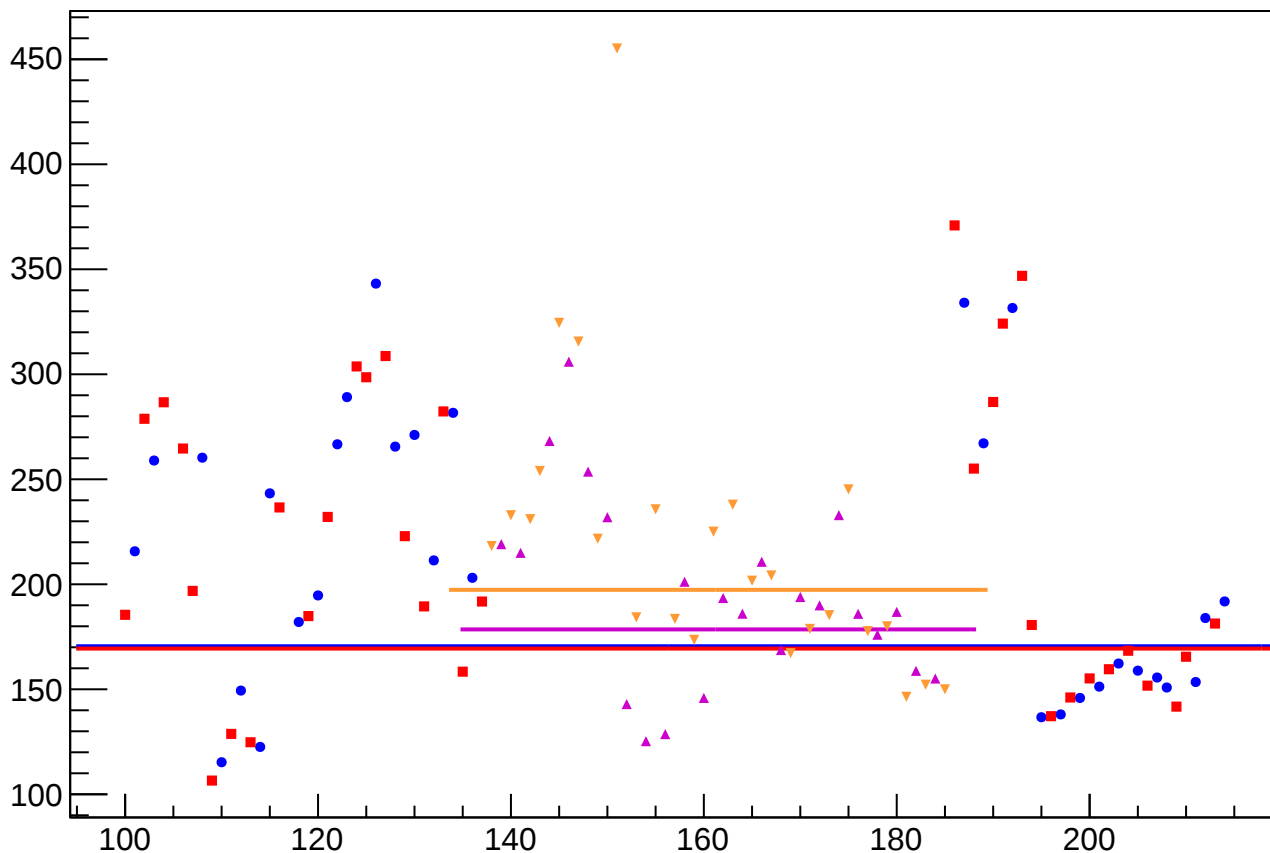
Right: -57.979 $\pm$ 30.657 χ^2 /NDF: 31.4/64

In: -14.088 $\pm$ 31.177 χ^2 /NDF:25.4/53

Out: -27.943 $\pm$ 32.005 χ^2 /NDF:23.7/58

All: -20.834 $\pm$ 22.332 χ^2 /NDF: 49.1/112

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.486+/-0.031 χ^2/NDF : 2152030.6/30

Left Out: 197.355+/-0.034 χ^2/NDF :1790824.5/24

Right Out: 169.387+/-0.031 χ^2/NDF : 2835303.9/33

Left In: 178.512+/-0.032 χ^2/NDF :1642304.1/22

Left: 187.326+/-0.023 χ^2/NDF : 3599509.2/47

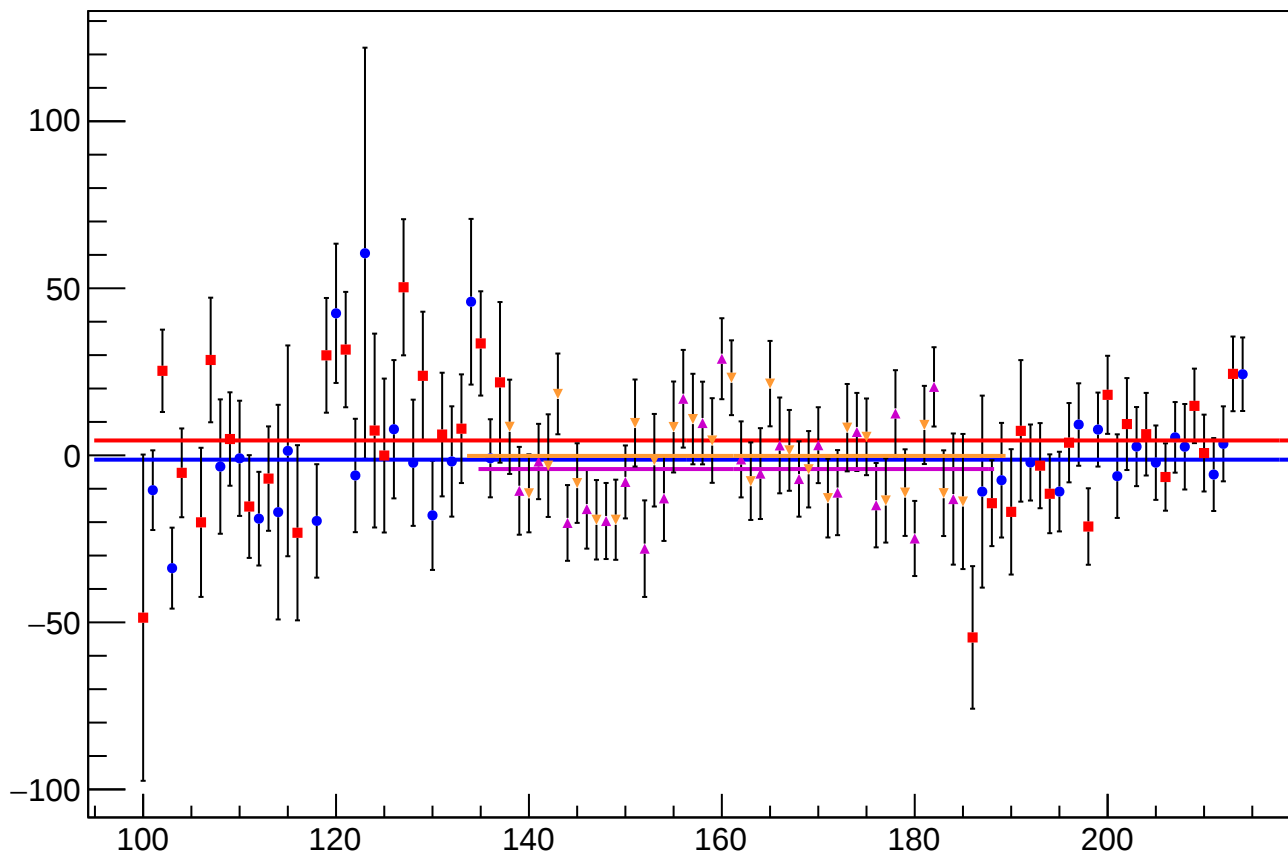
Right: 169.932+/-0.022 χ^2/NDF : 4987976.9/64

In: 174.394+/-0.022 χ^2/NDF :3827449.4/53

Out: 181.998+/-0.023 χ^2/NDF :5004278.8/58

All: 178.096+/-0.016 χ^2/NDF : 8889660.3/112

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.297 ± 2.556 $\chi^2/\text{NDF}: 29.9/30$

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 $\chi^2/\text{NDF}: 57.1/47$

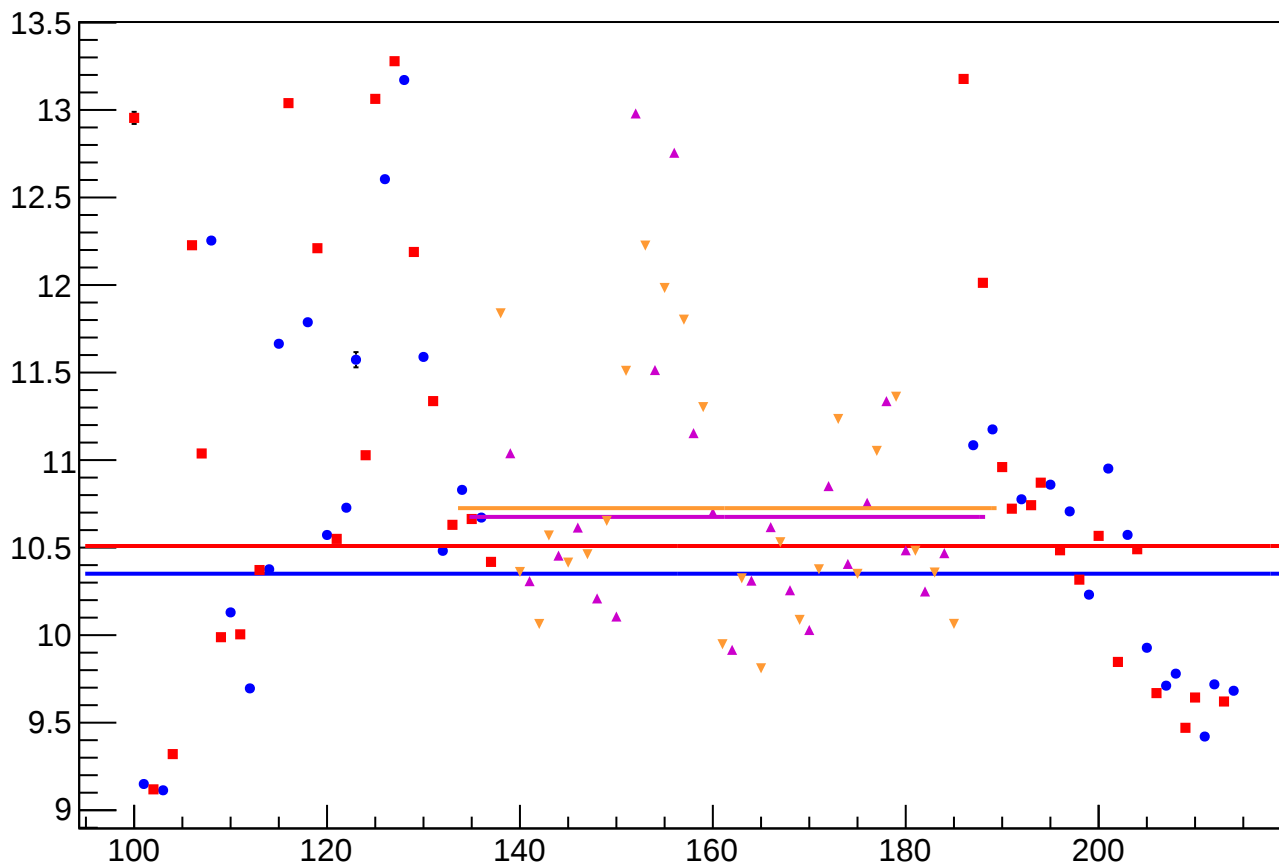
Right: 1.586 ± 1.805 $\chi^2/\text{NDF}: 83.2/64$

In: -2.690 ± 1.815 $\chi^2/\text{NDF}: 62.1/53$

Out: 2.115 ± 1.792 $\chi^2/\text{NDF}: 76.8/58$

All: -0.257 ± 1.275 $\chi^2/\text{NDF}: 142.4/112$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.351 ± 0.002 $\chi^2/\text{NDF}: 227653.5/30$

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 $\chi^2/\text{NDF}: 278494.3/47$

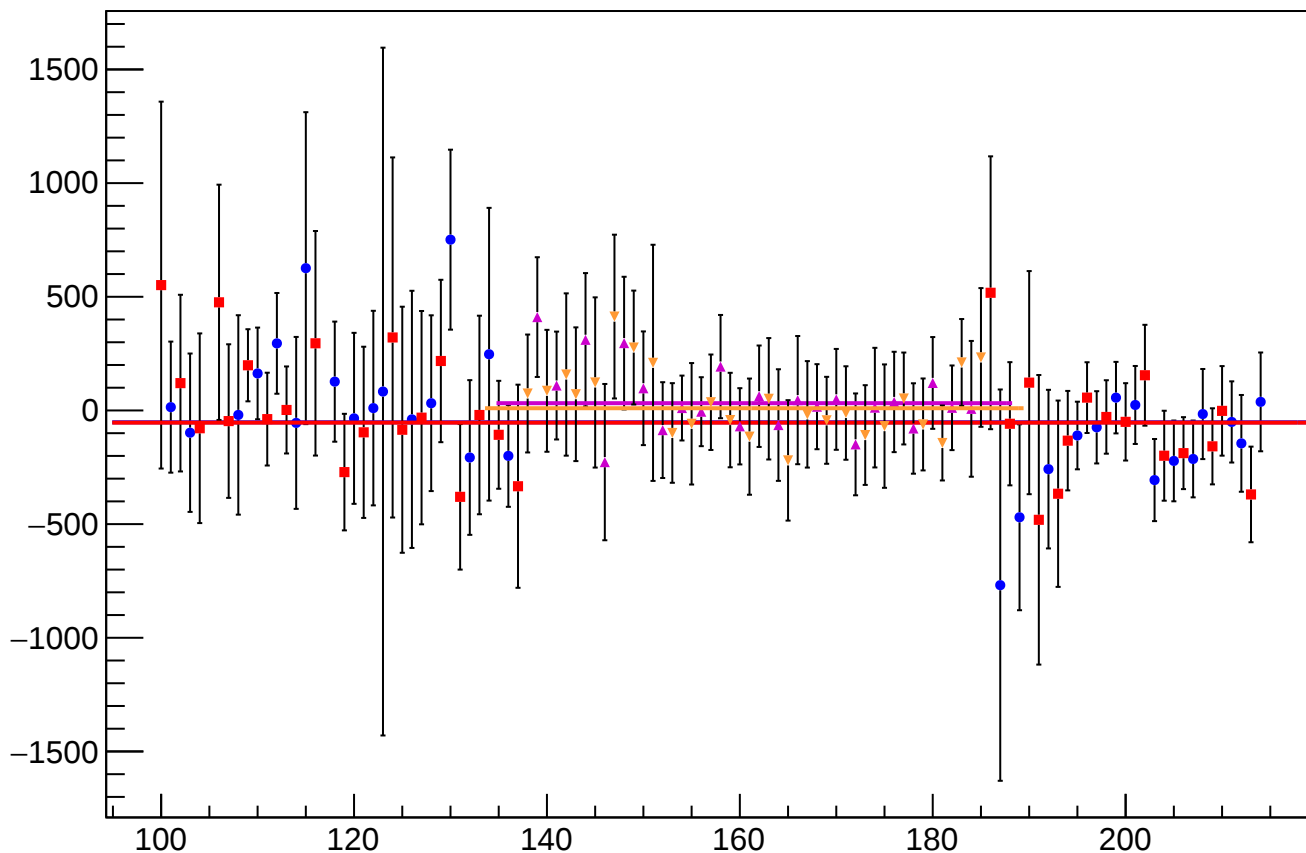
Right: 10.430 ± 0.001 $\chi^2/\text{NDF}: 539565.6/64$

In: 10.512 ± 0.001 $\chi^2/\text{NDF}: 389575.9/53$

Out: 10.619 ± 0.001 $\chi^2/\text{NDF}: 447512.4/58$

All: 10.566 ± 0.001 $\chi^2/\text{NDF}: 840590.8/112$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -52.193 ± 43.593 $\chi^2/\text{NDF}: 17.3/30$

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 $\chi^2/\text{NDF}: 14.8/47$

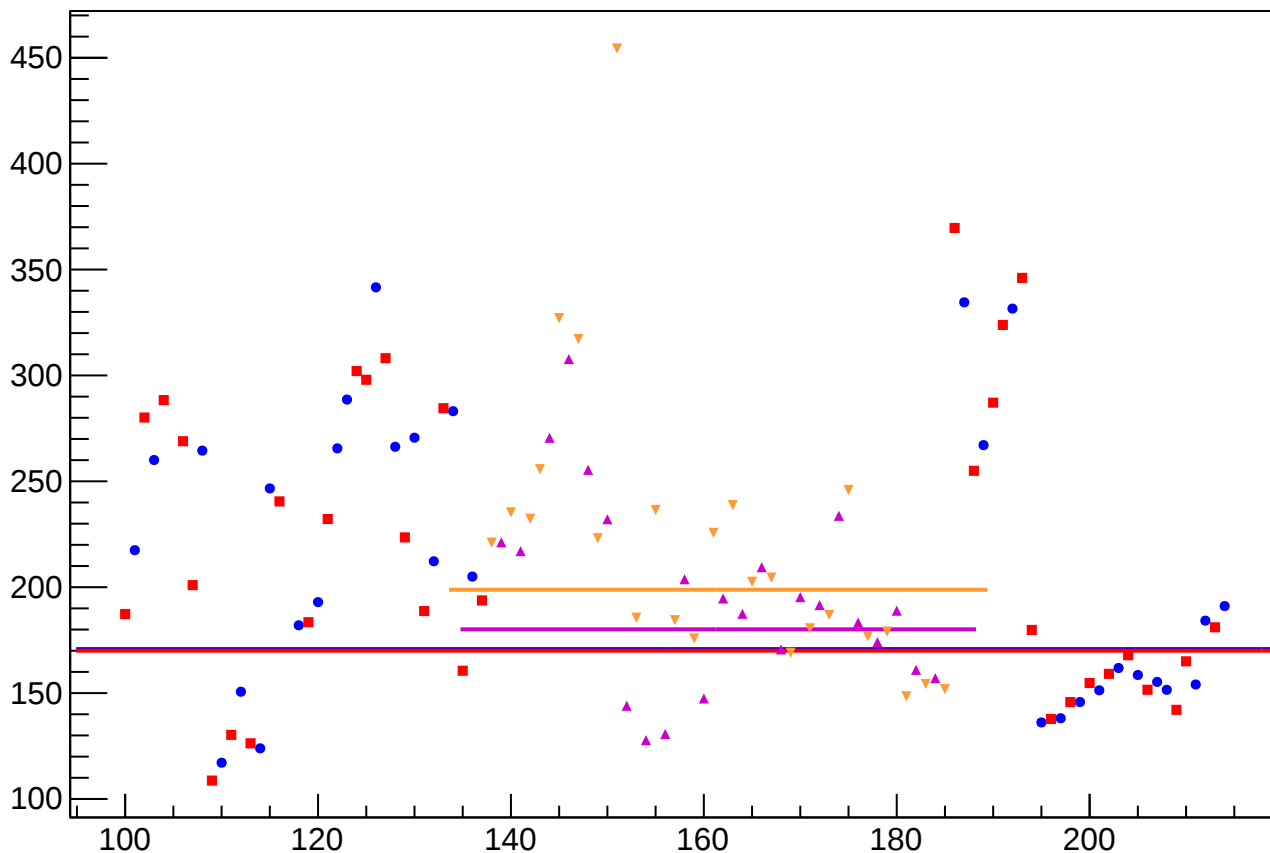
Right: -52.904 ± 30.728 $\chi^2/\text{NDF}: 32.8/64$

In: -11.475 ± 31.323 $\chi^2/\text{NDF}: 26.3/53$

Out: -25.130 ± 32.153 $\chi^2/\text{NDF}: 24.0/58$

All: -18.124 ± 22.436 $\chi^2/\text{NDF}: 50.4/112$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.765 $\pm$ 0.031 χ^2 /NDF: 2148685.9/30

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

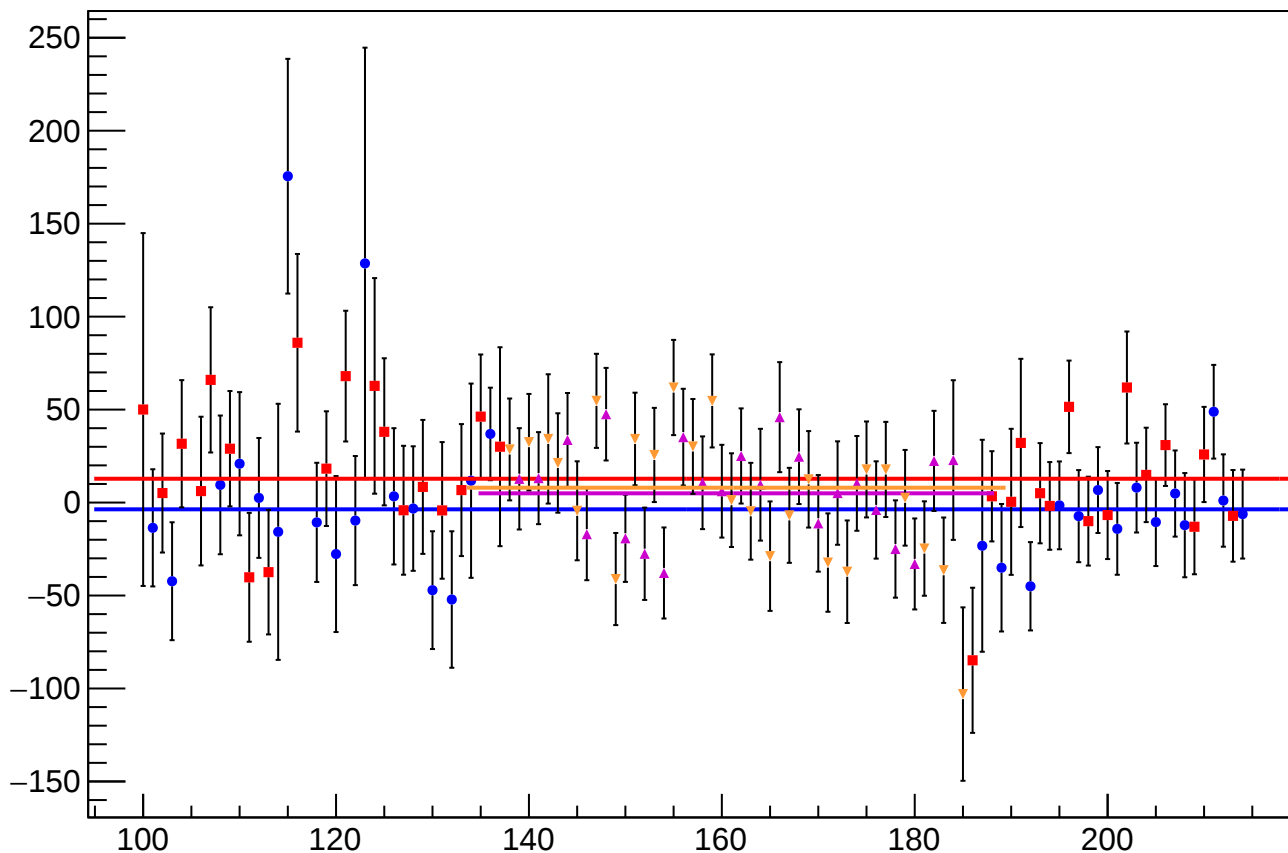
Right: 170.394 $\pm$ 0.022 χ^2 /NDF: 4943370.3/64

In: 175.291 $\pm$ 0.022 χ^2 /NDF:3787109.1/53

Out: 182.950 $\pm$ 0.023 χ^2 /NDF:4953752.6/58

All: 179.020 $\pm$ 0.016 χ^2 /NDF: 8799072.4/112

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.636 ± 5.417 $\chi^2/\text{NDF}: 27.7/30$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 12.813 ± 5.357 $\chi^2/\text{NDF}: 31.3/33$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

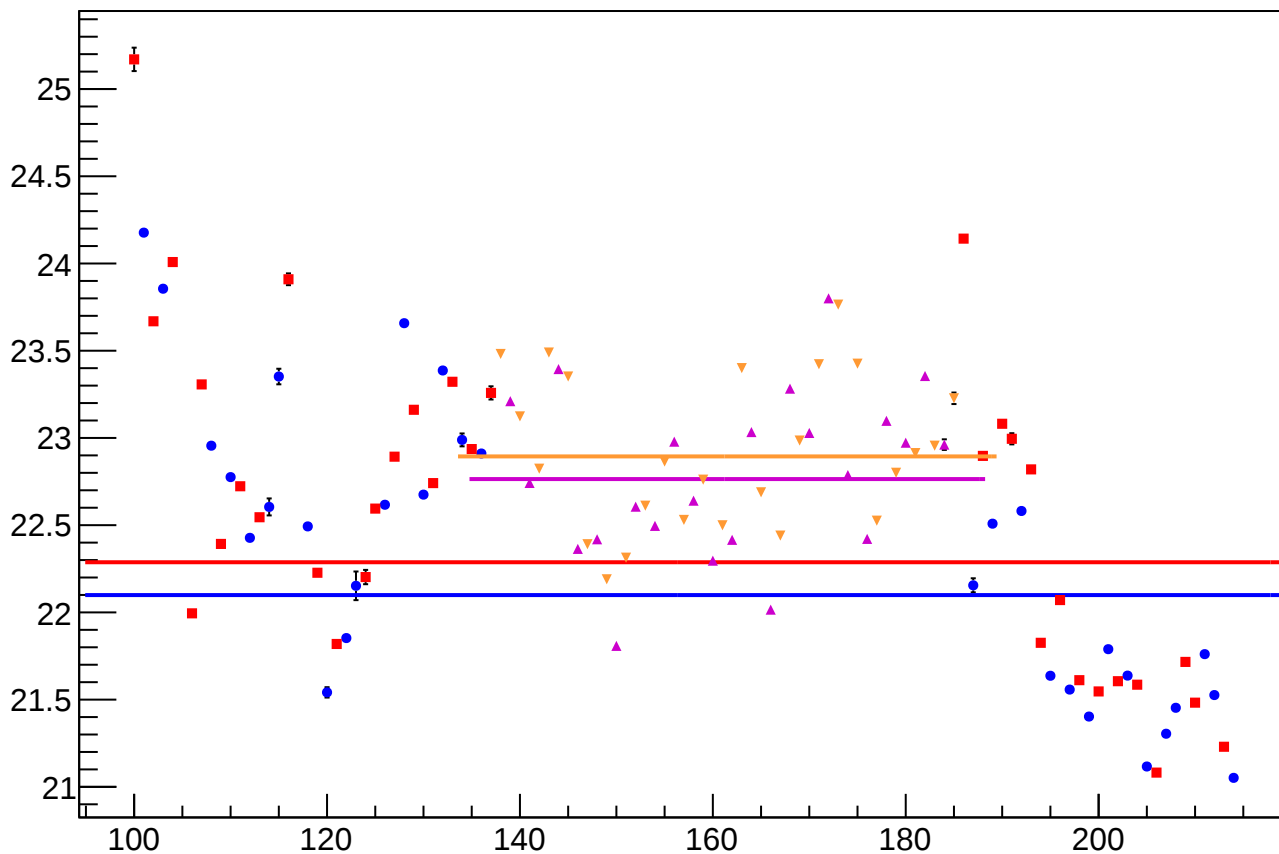
Right: 4.680 ± 3.809 $\chi^2/\text{NDF}: 63.6/64$

In: 0.647 ± 3.840 $\chi^2/\text{NDF}: 49.4/53$

Out: 10.388 ± 3.777 $\chi^2/\text{NDF}: 69.1/58$

All: 5.597 ± 2.693 $\chi^2/\text{NDF}: 121.8/112$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.099 $\pm$ 0.004 χ^2 /NDF: 46759.9/30

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

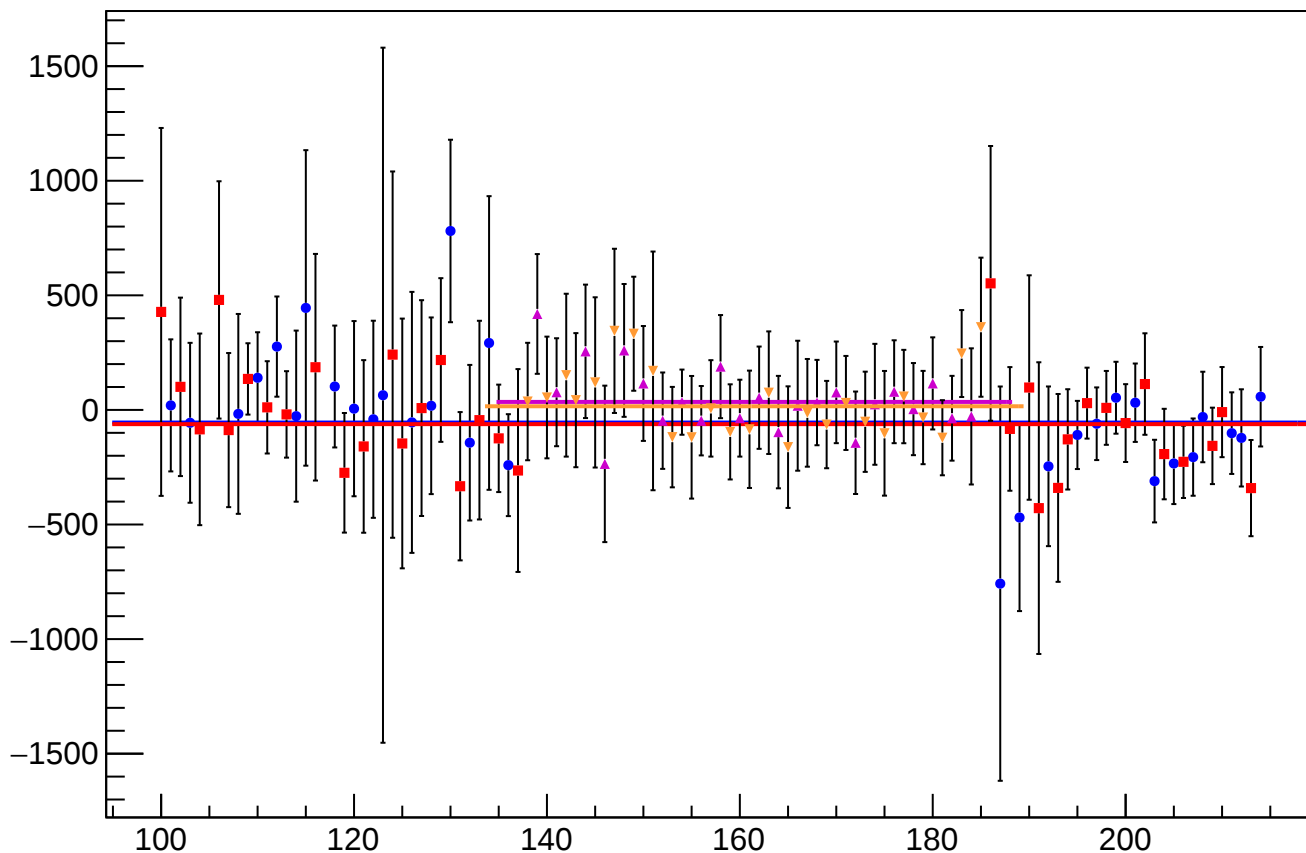
Right: 22.194 $\pm$ 0.003 χ^2 /NDF: 96117.6/64

In: 22.430 $\pm$ 0.003 χ^2 /NDF:76418.9/53

Out: 22.592 $\pm$ 0.003 χ^2 /NDF:74104.2/58

All: 22.513 $\pm$ 0.002 χ^2 /NDF: 152340.4/112

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.120 ± 43.469 $\chi^2/\text{NDF}: 16.9/30$

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 $\chi^2/\text{NDF}: 15.1/47$

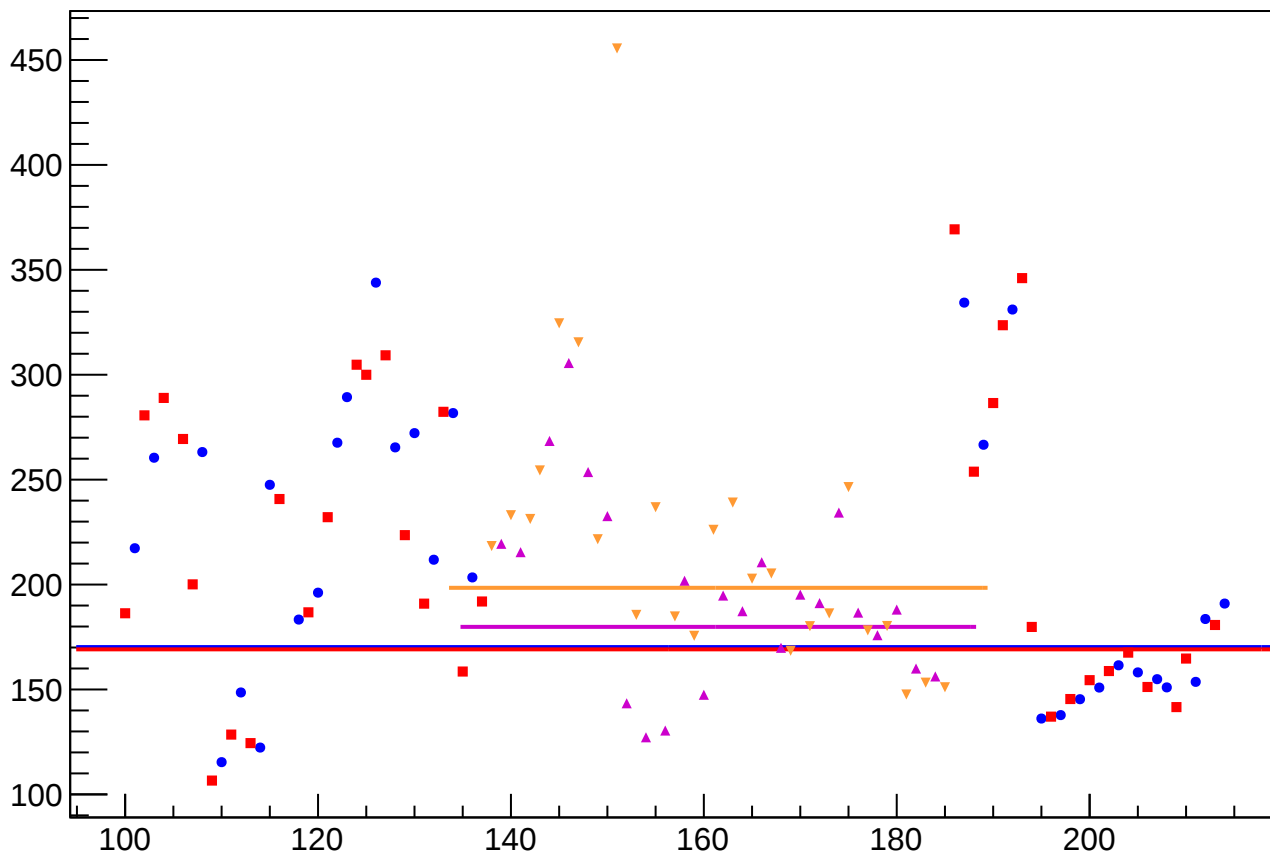
Right: -58.623 ± 30.619 $\chi^2/\text{NDF}: 30.0/64$

In: -11.629 ± 31.255 $\chi^2/\text{NDF}: 25.6/53$

Out: -27.152 ± 32.054 $\chi^2/\text{NDF}: 23.0/58$

All: -19.195 ± 22.378 $\chi^2/\text{NDF}: 48.7/112$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.204 $\pm$ 0.031 χ^2 /NDF: 2179594.2/30

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 169.121 $\pm$ 0.031 χ^2 /NDF: 2862538.5/33

Left In: 179.839 $\pm$ 0.032 χ^2 /NDF:1588834.3/22

Left: 188.558 $\pm$ 0.023 χ^2 /NDF: 3510745.5/47

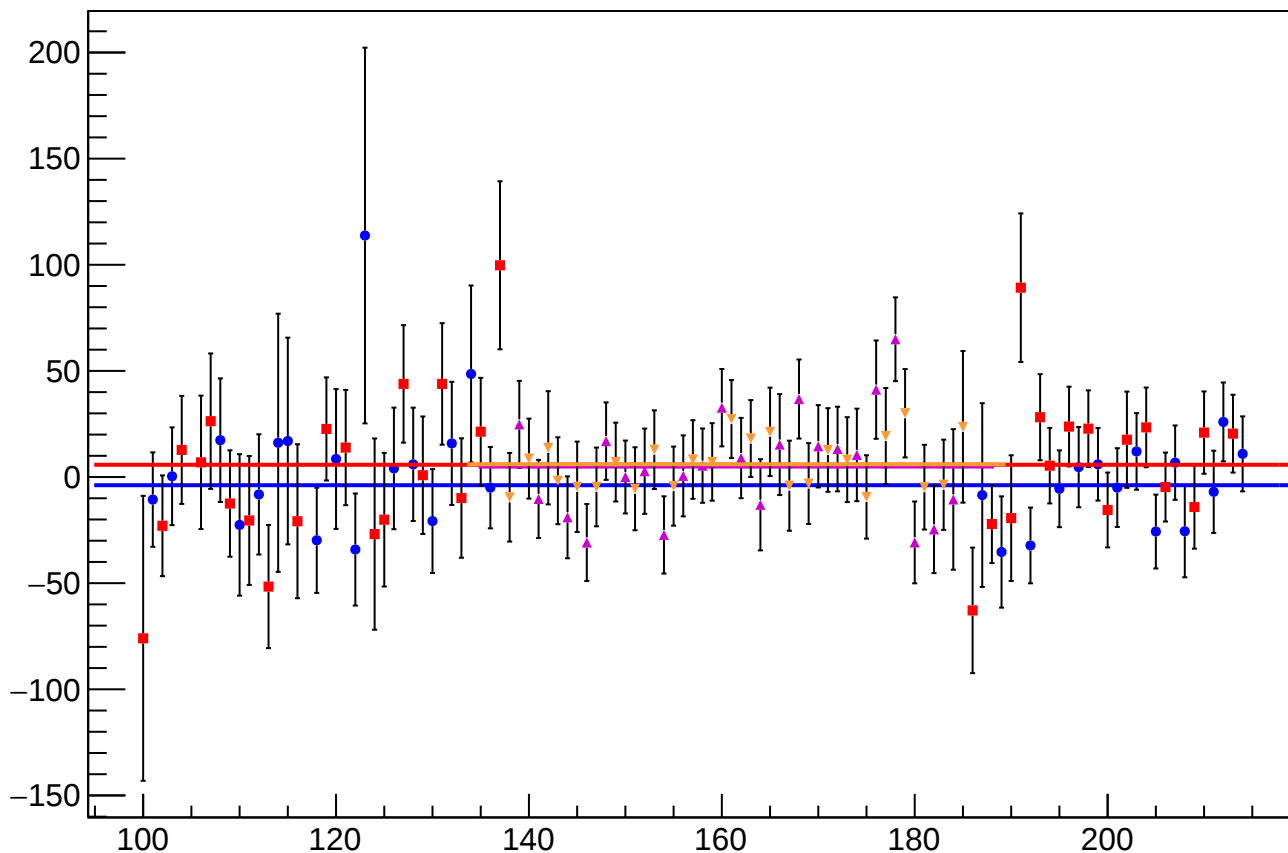
Right: 169.658 $\pm$ 0.022 χ^2 /NDF: 5042759.1/64

In: 174.858 $\pm$ 0.022 χ^2 /NDF:3815885.7/53

Out: 182.255 $\pm$ 0.023 χ^2 /NDF:5038019.1/58

All: 178.463 $\pm$ 0.016 χ^2 /NDF: 8908506.1/112

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.848 ± 4.130 χ^2/NDF : 19.9/30

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

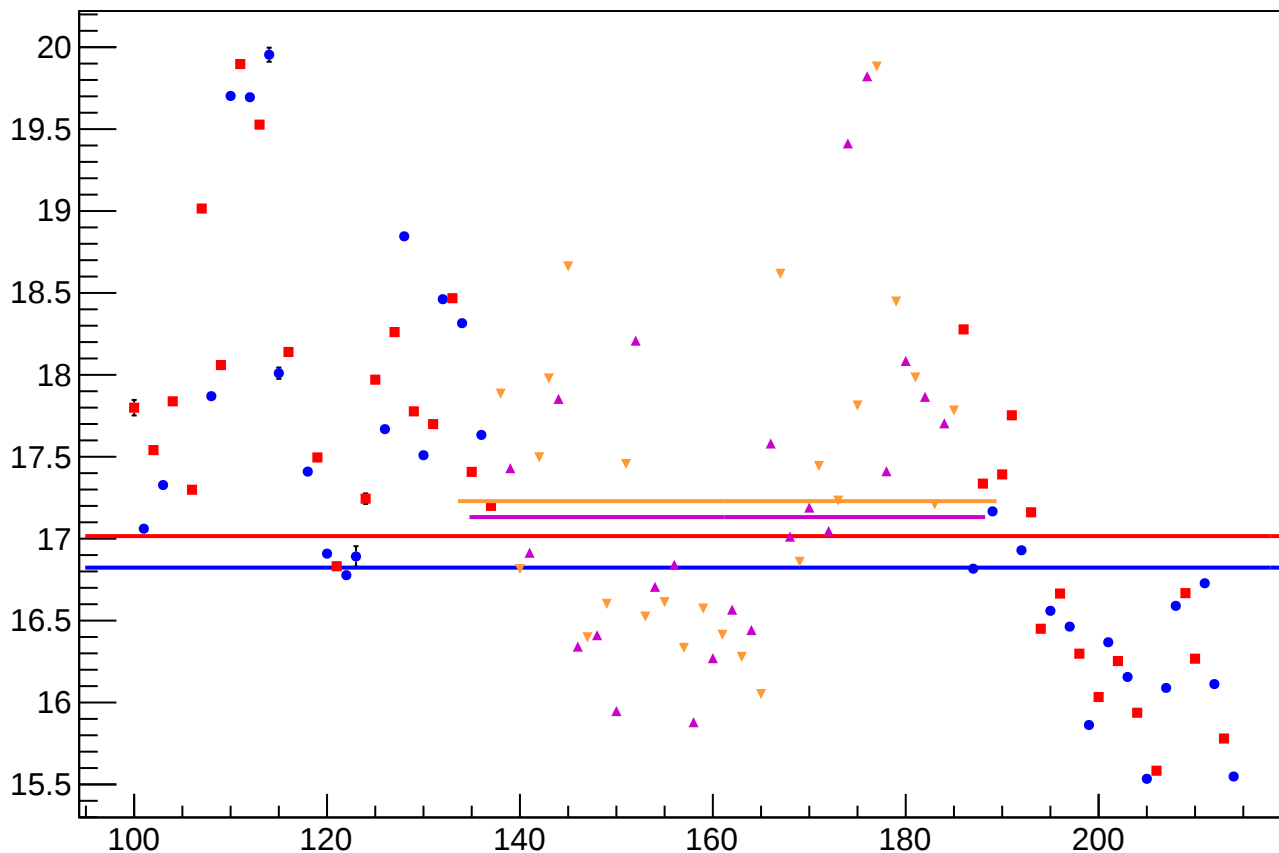
Right: 1.008 ± 2.908 χ^2/NDF : 66.0/64

In: 0.571 ± 2.912 χ^2/NDF : 57.0/53

Out: 5.906 ± 2.868 χ^2/NDF : 51.5/58

All: 3.279 ± 2.044 χ^2/NDF : 110.2/112

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.823 $\pm$ 0.003 χ^2 /NDF: 114116.4/30

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

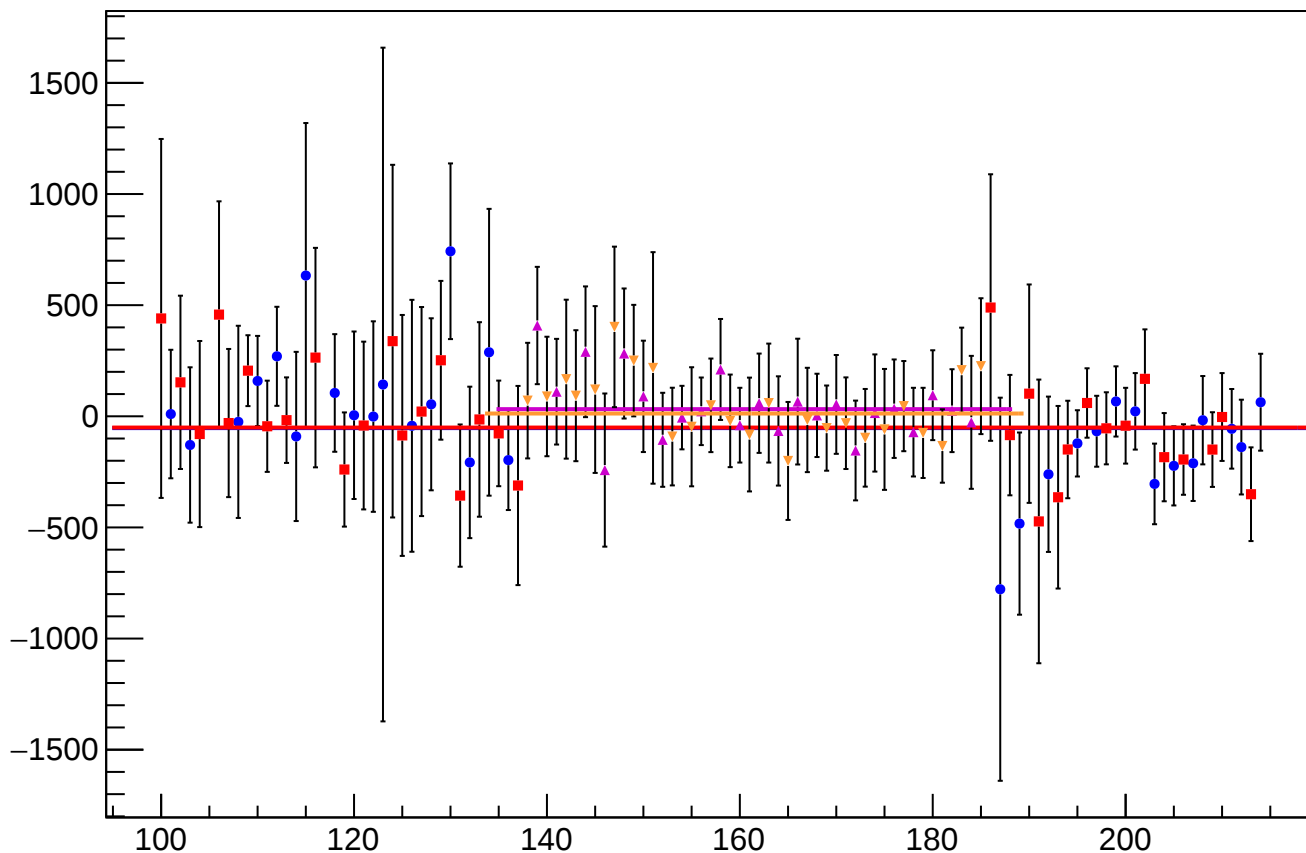
Right: 16.920 $\pm$ 0.002 χ^2 /NDF: 236135.7/64

In: 16.978 $\pm$ 0.002 χ^2 /NDF:223723.9/53

Out: 17.124 $\pm$ 0.002 χ^2 /NDF:221227.3/58

All: 17.053 $\pm$ 0.001 χ^2 /NDF: 447504.6/112

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.110 ± 43.723 $\chi^2/\text{NDF}: 17.1/30$

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 $\chi^2/\text{NDF}: 13.9/47$

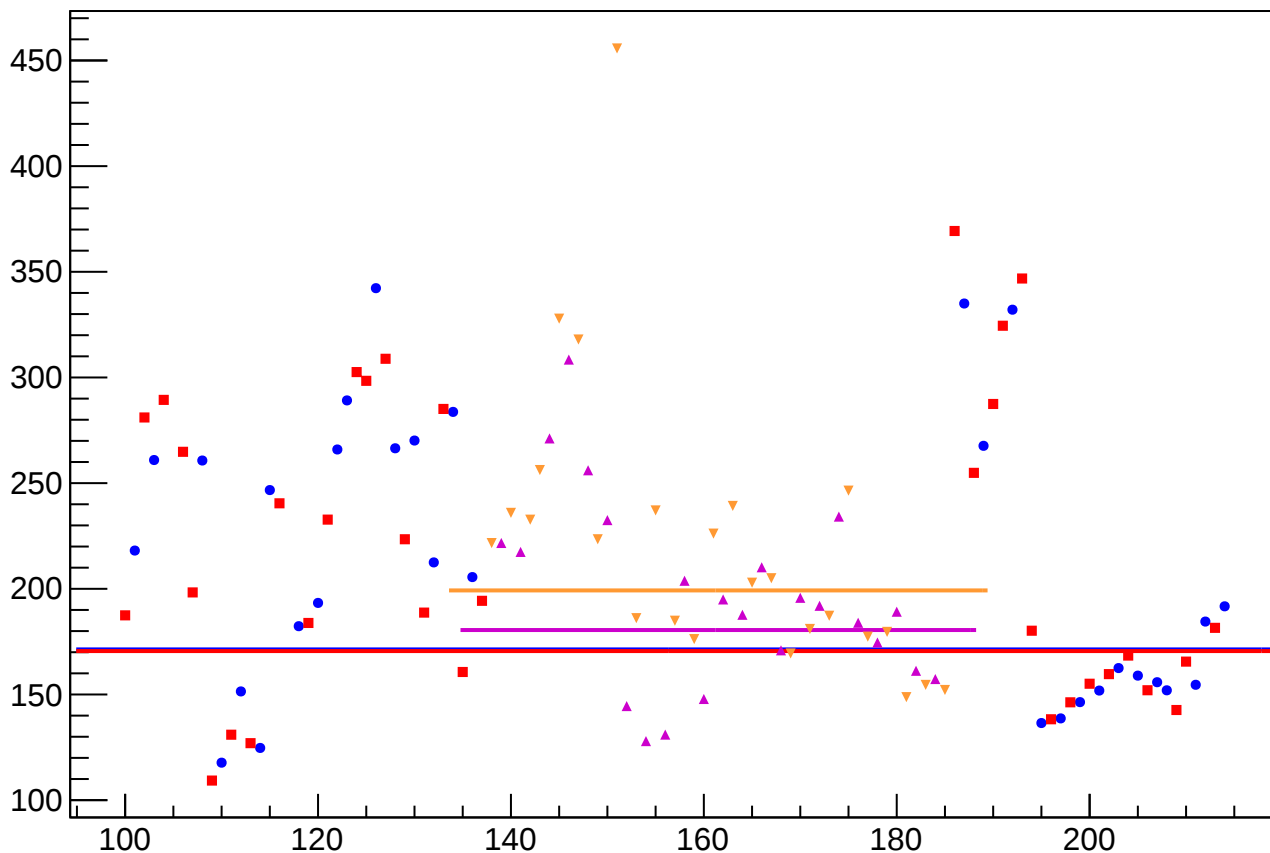
Right: -51.886 ± 30.814 $\chi^2/\text{NDF}: 31.8/64$

In: -11.826 ± 31.403 $\chi^2/\text{NDF}: 25.9/53$

Out: -22.303 ± 32.232 $\chi^2/\text{NDF}: 22.6/58$

All: -16.928 ± 22.493 $\chi^2/\text{NDF}: 48.5/112$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.324+/-0.031 χ^2/NDF : 2130316.8/30

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

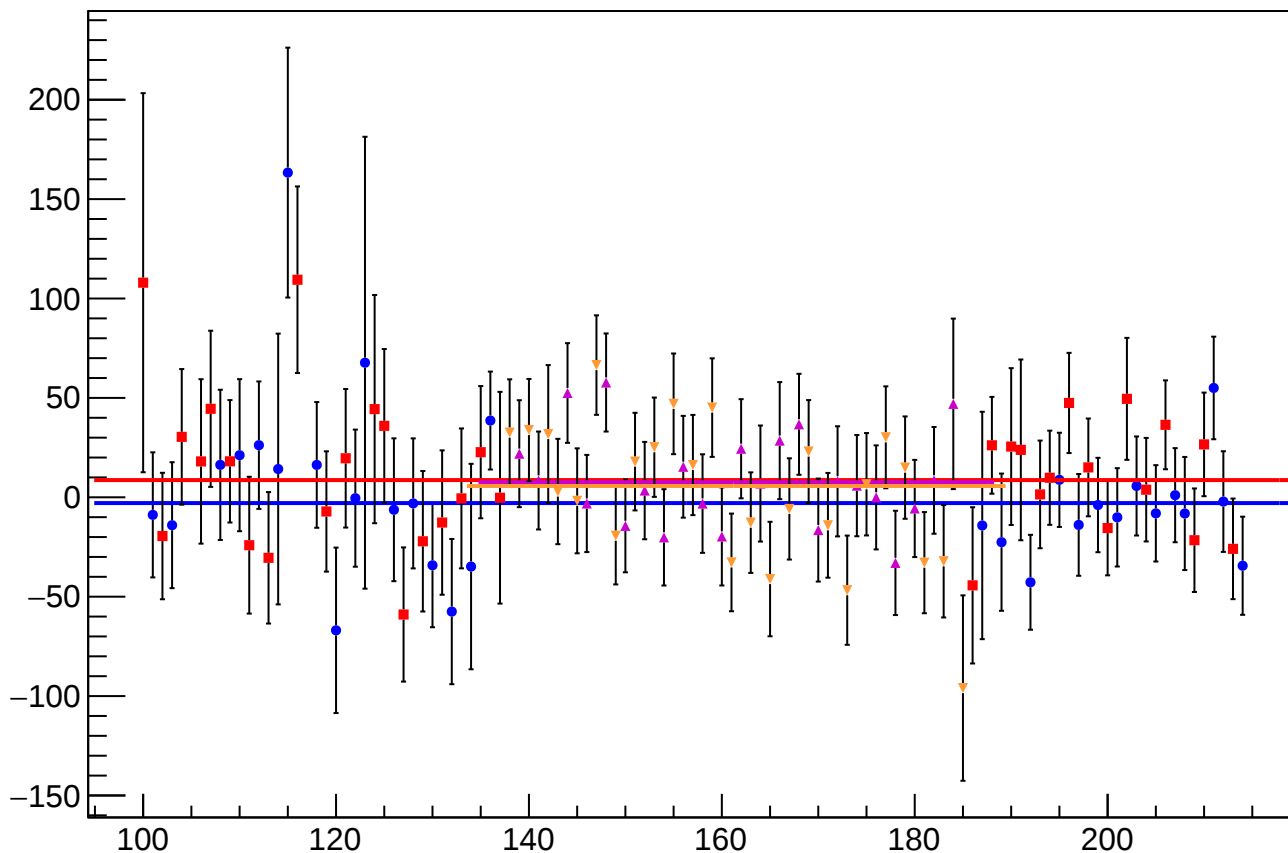
Right: 170.930+/-0.022 χ^2/NDF : 4900352.3/64

In: 175.764+/-0.022 χ^2/NDF :3766687.6/53

Out: 183.436+/-0.023 χ^2/NDF :4926156.9/58

All: 179.500+/-0.016 χ^2/NDF : 8750980.8/112

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.903 ± 5.464 $\chi^2/\text{NDF}: 28.9/30$

Left Out: 5.673 ± 5.278 $\chi^2/\text{NDF}: 36.4/24$

Right Out: 8.659 ± 5.384 $\chi^2/\text{NDF}: 30.0/33$

Left In: 7.594 ± 5.402 $\chi^2/\text{NDF}: 18.3/22$

Left: 6.611 ± 3.775 $\chi^2/\text{NDF}: 54.8/47$

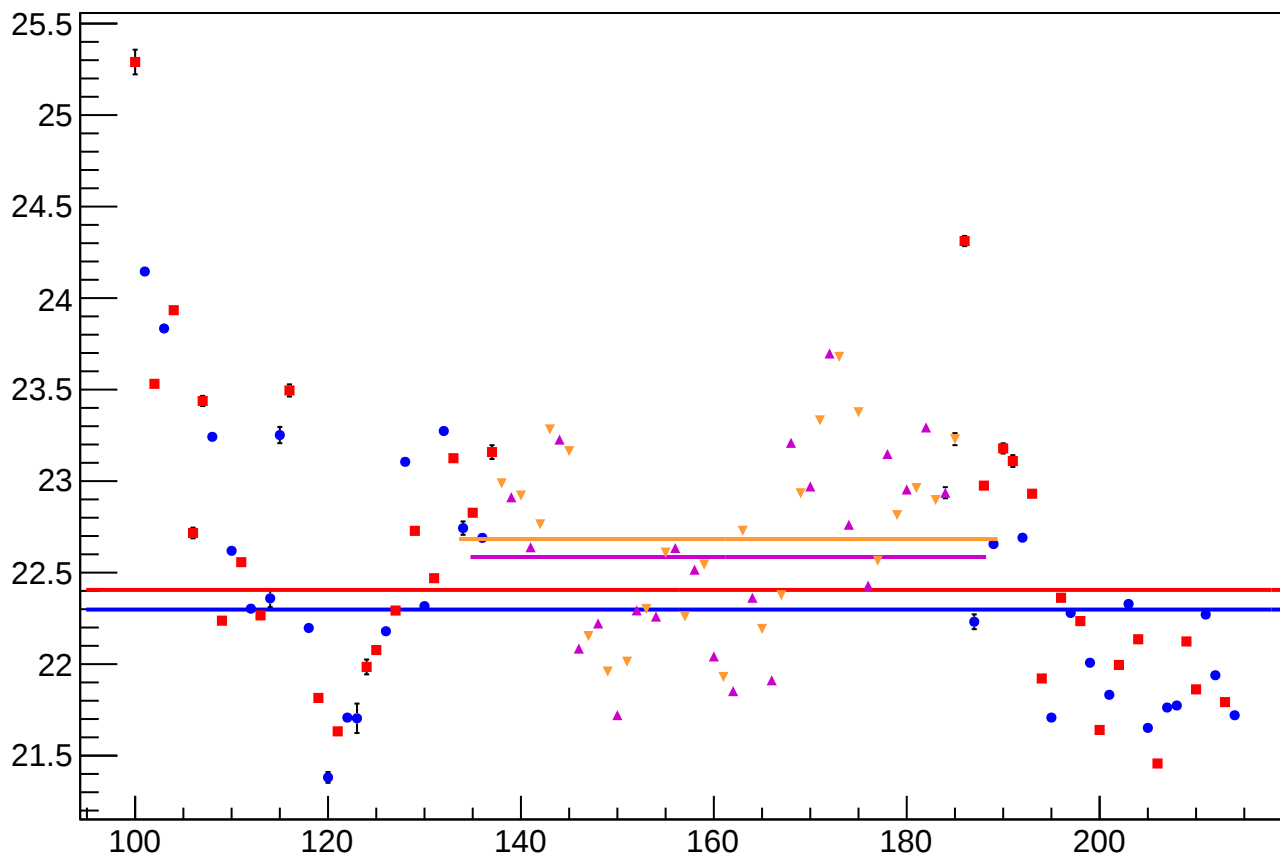
Right: 2.963 ± 3.835 $\chi^2/\text{NDF}: 61.2/64$

In: 2.406 ± 3.841 $\chi^2/\text{NDF}: 49.0/53$

Out: 7.136 ± 3.769 $\chi^2/\text{NDF}: 66.6/58$

All: 4.816 ± 2.690 $\chi^2/\text{NDF}: 116.4/112$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.298 $\pm$ 0.004 χ^2 /NDF: 26034.2/30

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

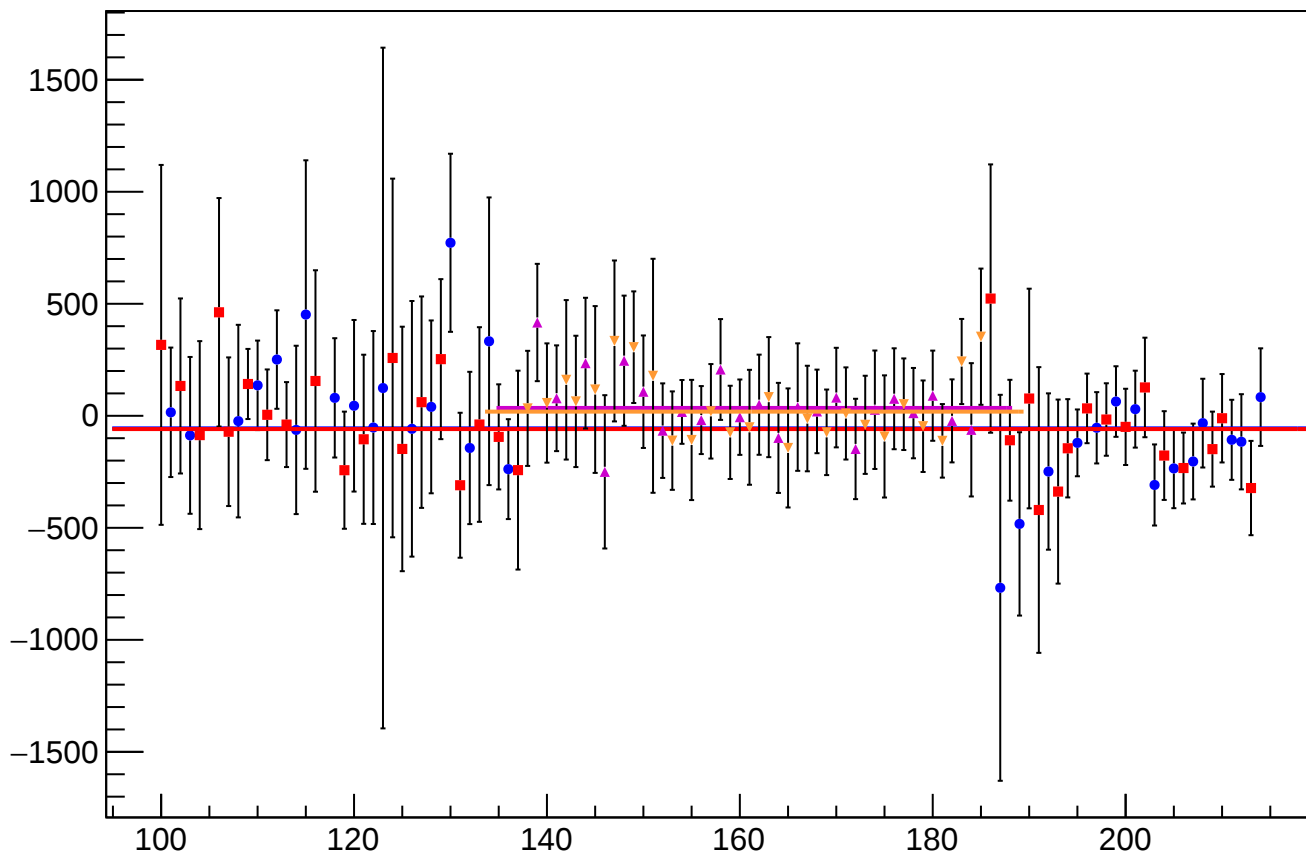
Right: 22.353 $\pm$ 0.003 χ^2 /NDF: 58492.7/64

In: 22.443 $\pm$ 0.003 χ^2 /NDF:46913.6/53

Out: 22.547 $\pm$ 0.003 χ^2 /NDF:51100.5/58

All: 22.496 $\pm$ 0.002 χ^2 /NDF: 98759.7/112

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.109 ± 43.600 $\chi^2/\text{NDF}: 16.7/30$

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 $\chi^2/\text{NDF}: 13.9/47$

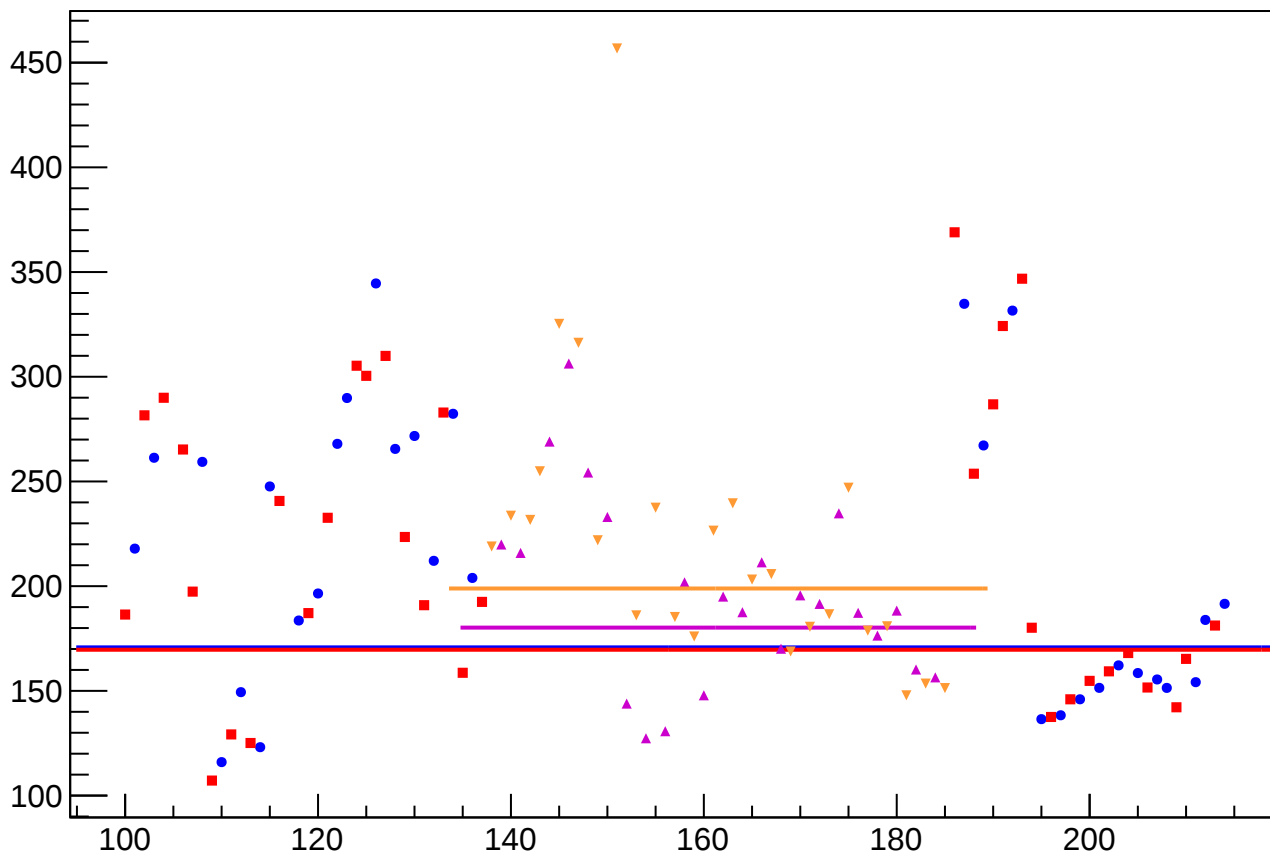
Right: -57.667 ± 30.706 $\chi^2/\text{NDF}: 29.1/64$

In: -12.035 ± 31.334 $\chi^2/\text{NDF}: 25.2/53$

Out: -24.327 ± 32.134 $\chi^2/\text{NDF}: 21.4/58$

All: -18.026 ± 22.434 $\chi^2/\text{NDF}: 46.6/112$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.769+/-0.031 χ^2/NDF : 2160635.4/30

Left Out: 198.891+/-0.034 χ^2/NDF :1762454.6/24

Right Out: 169.641+/-0.031 χ^2/NDF : 2836948.8/33

Left In: 180.207+/-0.032 χ^2/NDF :1589005.4/22

Left: 188.959+/-0.023 χ^2/NDF : 3512499.2/47

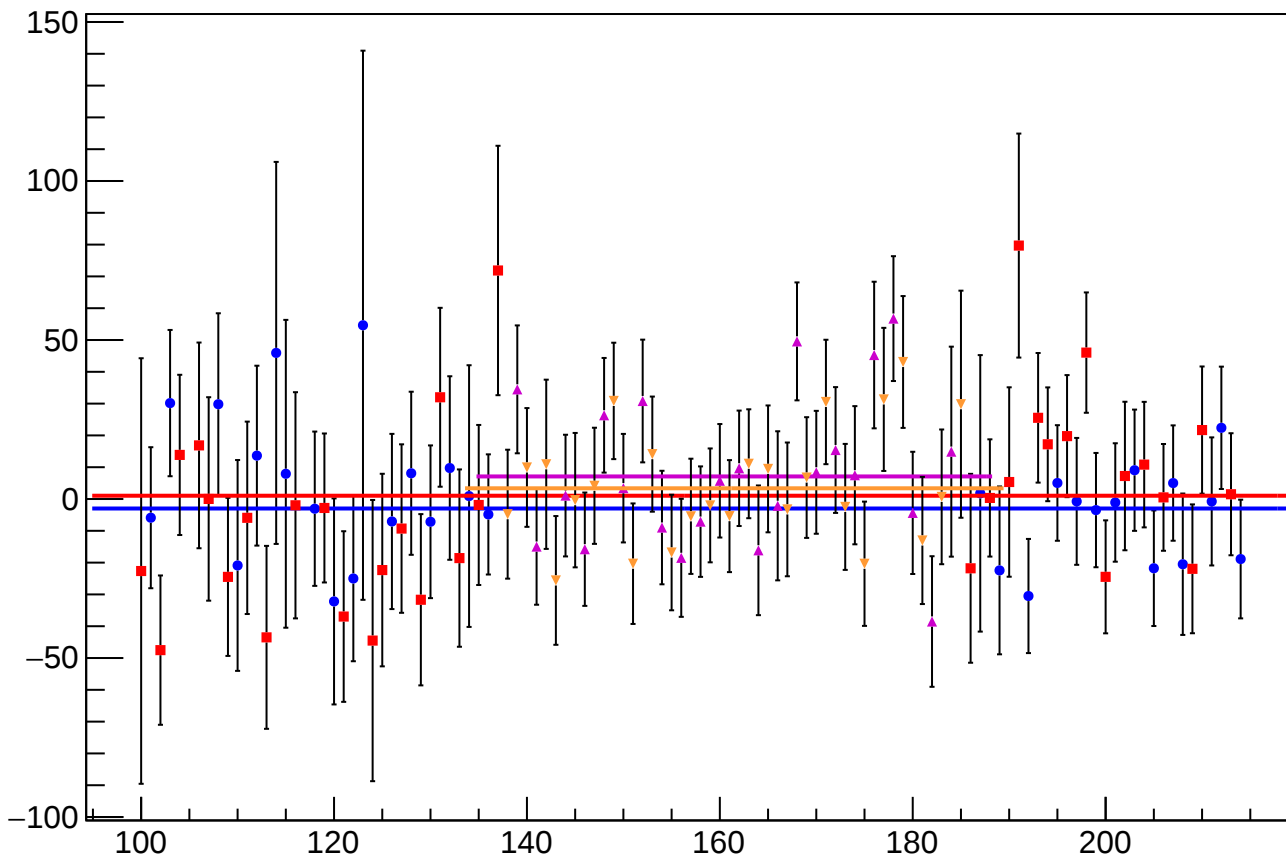
Right: 170.200+/-0.022 χ^2/NDF : 4998259.1/64

In: 175.332+/-0.022 χ^2/NDF :3794957.4/53

Out: 182.746+/-0.023 χ^2/NDF :5009222.5/58

All: 178.946+/-0.016 χ^2/NDF : 8858752.9/112

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.984 ± 4.192 $\chi^2/\text{NDF}: 15.1/30$

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 $\chi^2/\text{NDF}: 51.8/47$

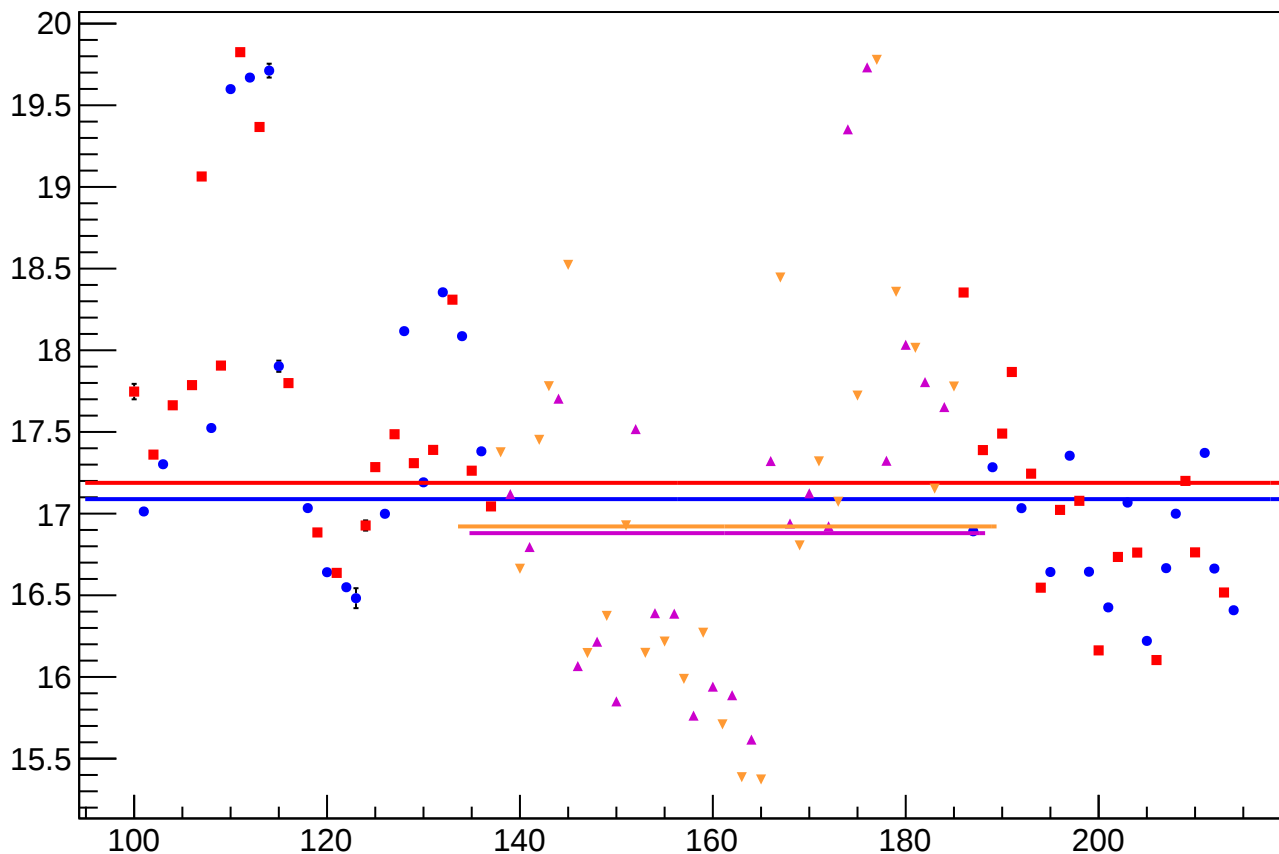
Right: -0.947 ± 2.944 $\chi^2/\text{NDF}: 53.5/64$

In: 2.234 ± 2.912 $\chi^2/\text{NDF}: 50.6/53$

Out: 2.258 ± 2.855 $\chi^2/\text{NDF}: 56.9/58$

All: 2.246 ± 2.039 $\chi^2/\text{NDF}: 107.5/112$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.089 $\pm$ 0.003 χ^2 /NDF: 58496.1/30

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

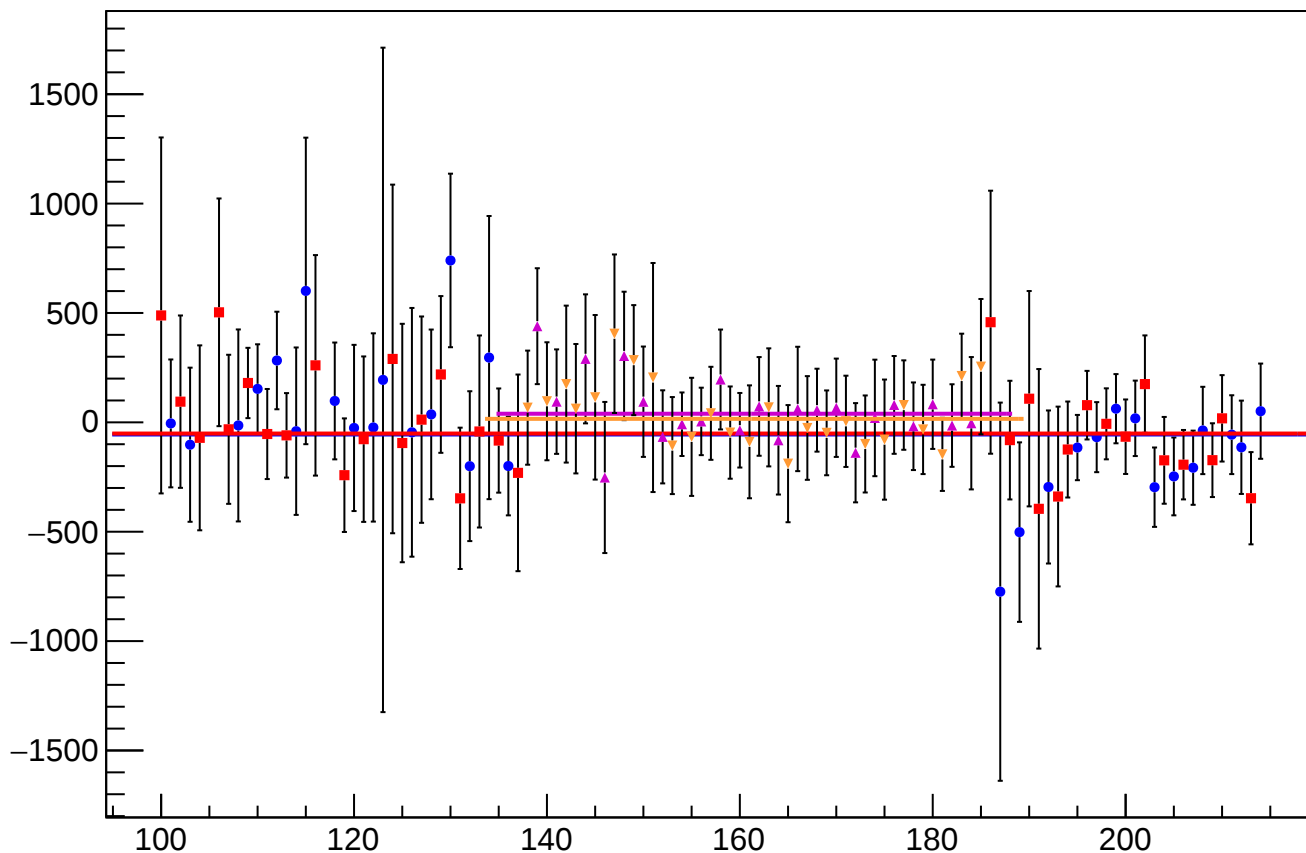
Right: 17.139 $\pm$ 0.002 χ^2 /NDF: 128594.3/64

In: 16.981 $\pm$ 0.002 χ^2 /NDF:182788.0/53

Out: 17.049 $\pm$ 0.002 χ^2 /NDF:212876.6/58

All: 17.015 $\pm$ 0.001 χ^2 /NDF: 396217.0/112

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.515 ± 43.844 $\chi^2/\text{NDF}: 16.9/30$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -51.197 ± 43.572 $\chi^2/\text{NDF}: 13.8/33$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

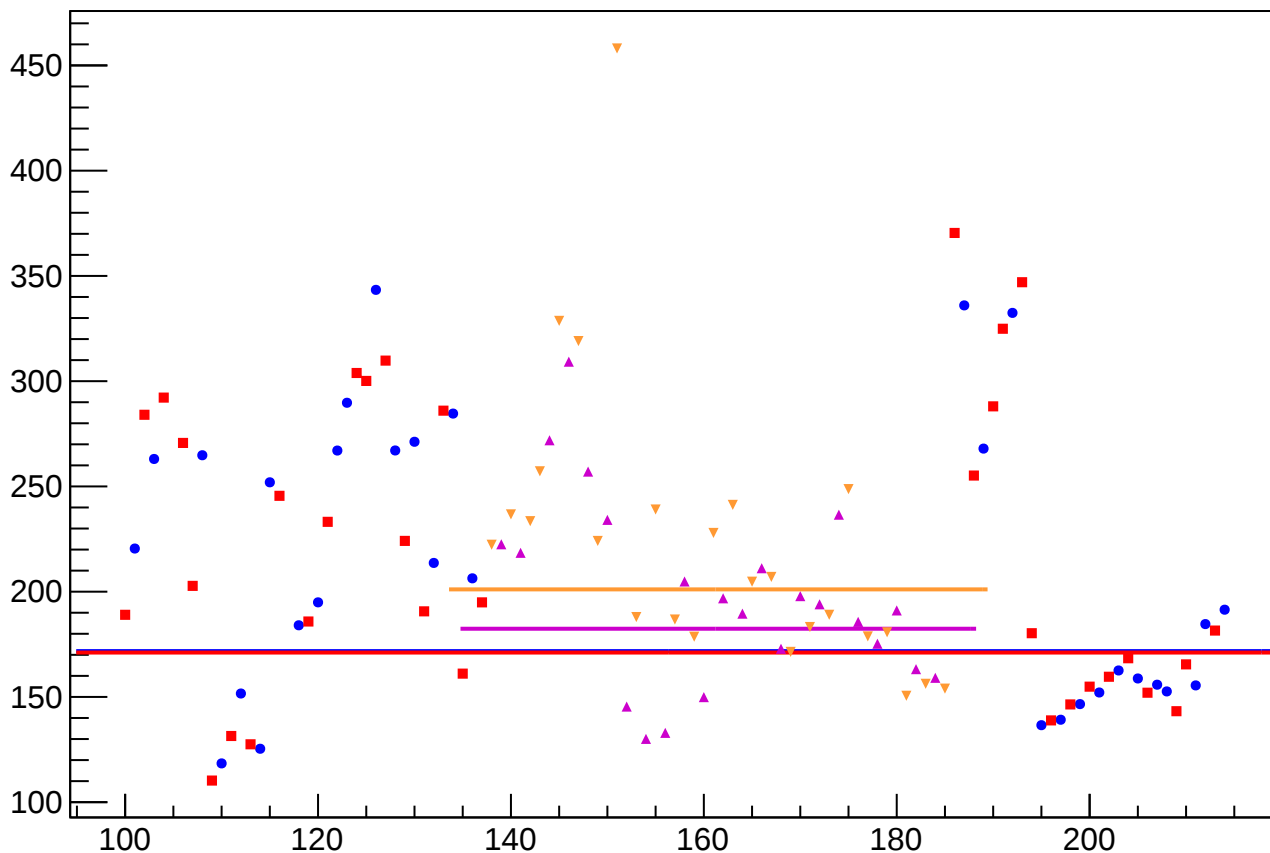
Right: -53.343 ± 30.906 $\chi^2/\text{NDF}: 30.7/64$

In: -9.901 ± 31.595 $\chi^2/\text{NDF}: 26.0/53$

Out: -21.201 ± 32.414 $\chi^2/\text{NDF}: 22.3/58$

All: -15.407 ± 22.625 $\chi^2/\text{NDF}: 48.4/112$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.771 ± 0.031 $\chi^2/\text{NDF}: 2143669.6/30$

Left Out: 201.091 ± 0.034 $\chi^2/\text{NDF}: 1731069.1/24$

Right Out: 171.085 ± 0.031 $\chi^2/\text{NDF}: 2779945.8/33$

Left In: 182.396 ± 0.032 $\chi^2/\text{NDF}: 1548907.7/22$

Left: 191.161 ± 0.023 $\chi^2/\text{NDF}: 3437793.2/47$

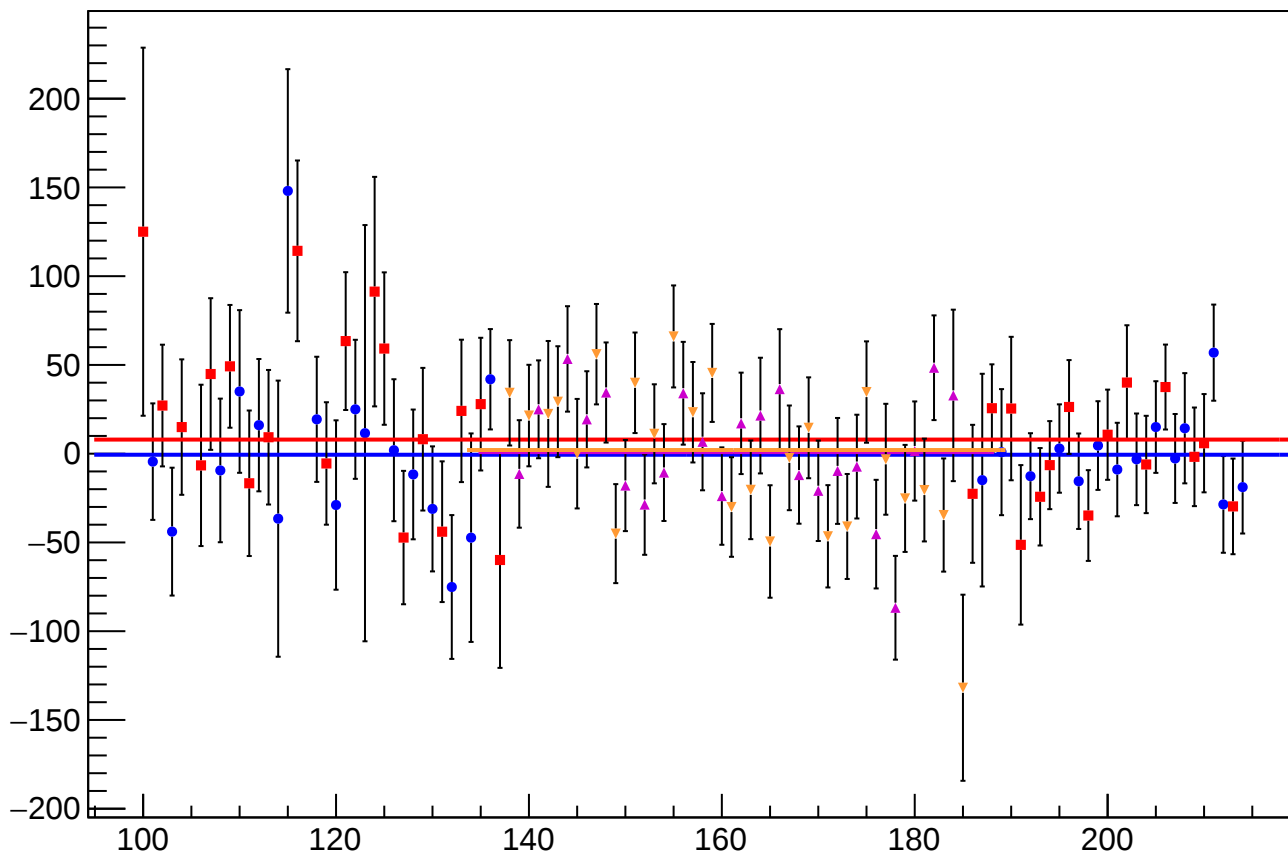
Right: 171.426 ± 0.022 $\chi^2/\text{NDF}: 4923861.3/64$

In: 176.878 ± 0.022 $\chi^2/\text{NDF}: 3749042.6/53$

Out: 184.486 ± 0.023 $\chi^2/\text{NDF}: 4934603.3/58$

All: 180.585 ± 0.016 $\chi^2/\text{NDF}: 8740140.0/112$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.596 ± 5.891 χ^2/NDF : 22.9/30

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 7.947 ± 5.781 χ^2/NDF : 32.4/33

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

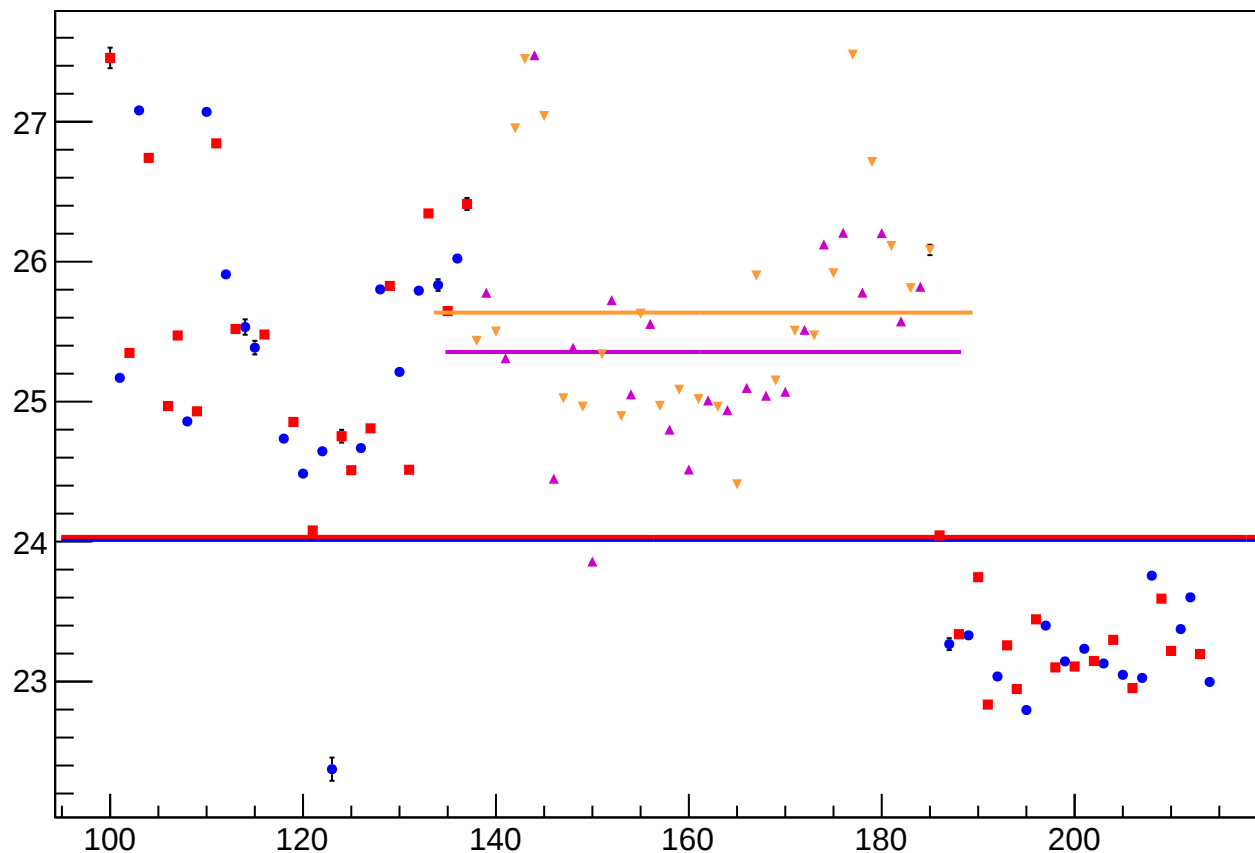
Right: 3.756 ± 4.126 χ^2/NDF : 56.4/64

In: 0.130 ± 4.227 χ^2/NDF : 50.0/53

Out: 5.095 ± 4.153 χ^2/NDF : 72.3/58

All: 2.657 ± 2.963 χ^2/NDF : 123.1/112

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.012 $\pm$ 0.004 χ^2 /NDF: 86256.9/30

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

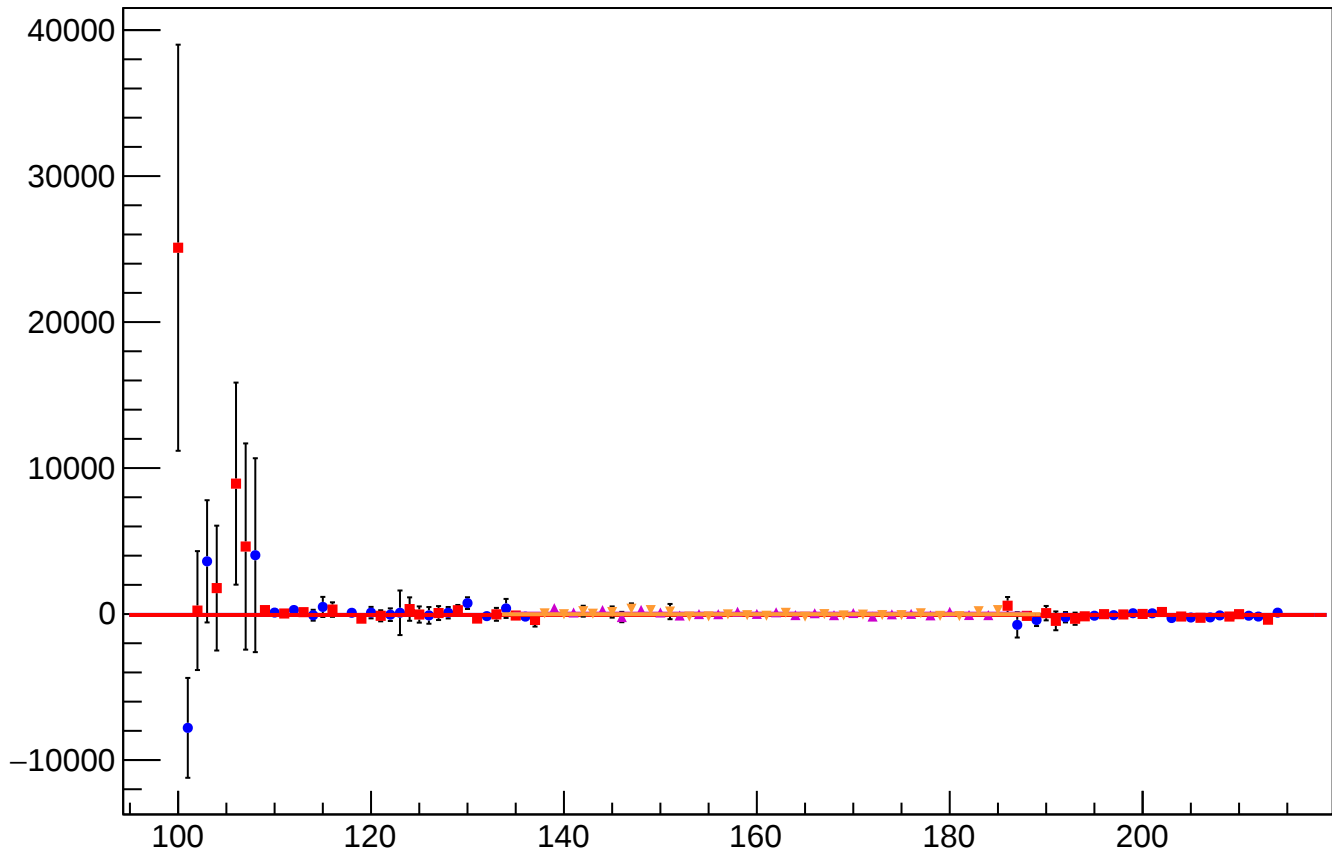
Right: 24.023 $\pm$ 0.003 χ^2 /NDF: 166256.3/64

In: 24.664 $\pm$ 0.003 χ^2 /NDF:166401.0/53

Out: 24.809 $\pm$ 0.003 χ^2 /NDF:189468.2/58

All: 24.738 $\pm$ 0.002 χ^2 /NDF: 357076.9/112

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.215 $\pm$ 45.783 χ^2 /NDF: 22.0/30

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

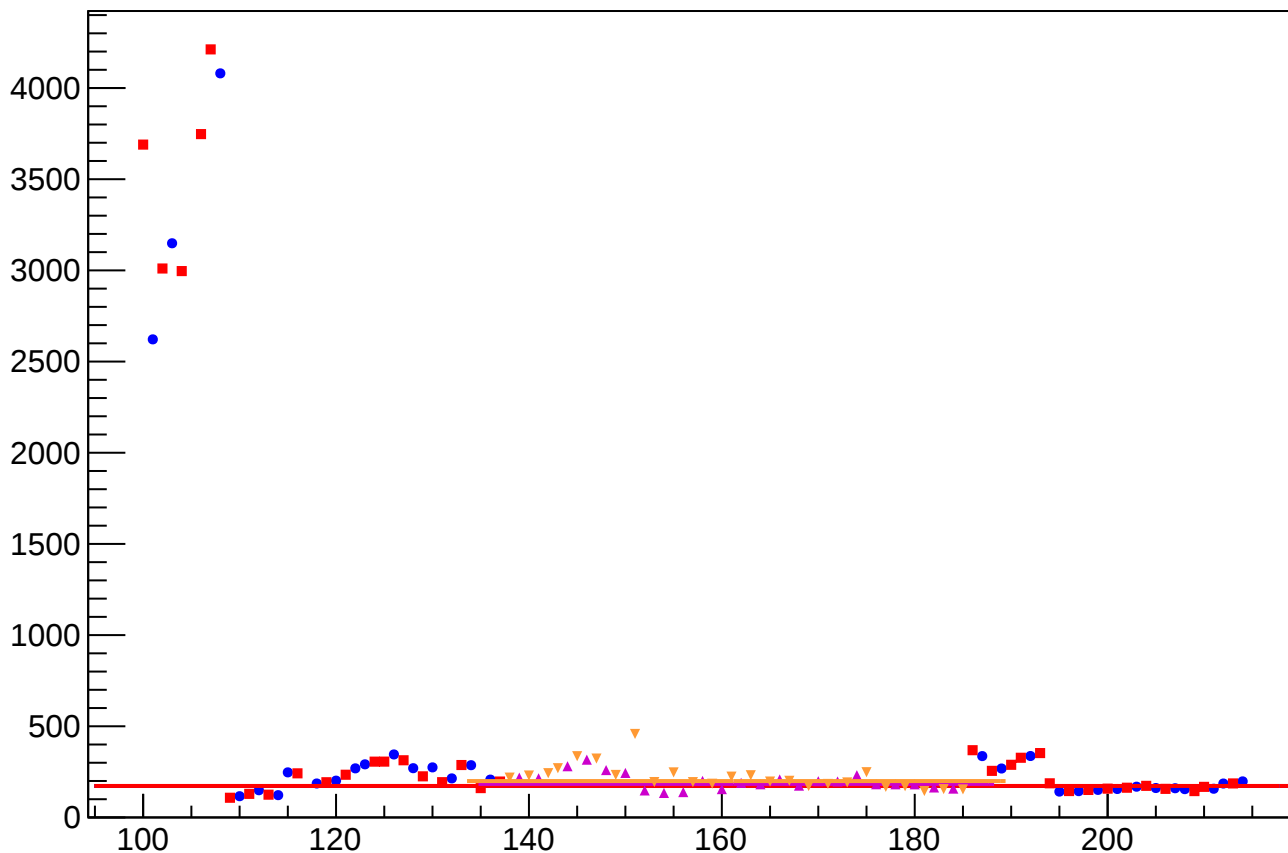
Right: -60.101 $\pm$ 32.523 χ^2 /NDF: 42.6/64

In: -15.775 $\pm$ 32.406 χ^2 /NDF:31.2/53

Out: -38.467 $\pm$ 33.362 χ^2 /NDF:29.1/58

All: -26.792 $\pm$ 23.245 χ^2 /NDF: 60.5/112

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.462 $\pm$ 0.032 χ^2 /NDF: 4547688.9/30

Left Out: 199.536 $\pm$ 0.034 χ^2 /NDF:1880548.8/24

Right Out: 172.728 $\pm$ 0.033 χ^2 /NDF: 5402480.1/33

Left In: 184.031 $\pm$ 0.032 χ^2 /NDF:1423454.3/22

Left: 191.398 $\pm$ 0.024 χ^2 /NDF: 3412539.0/47

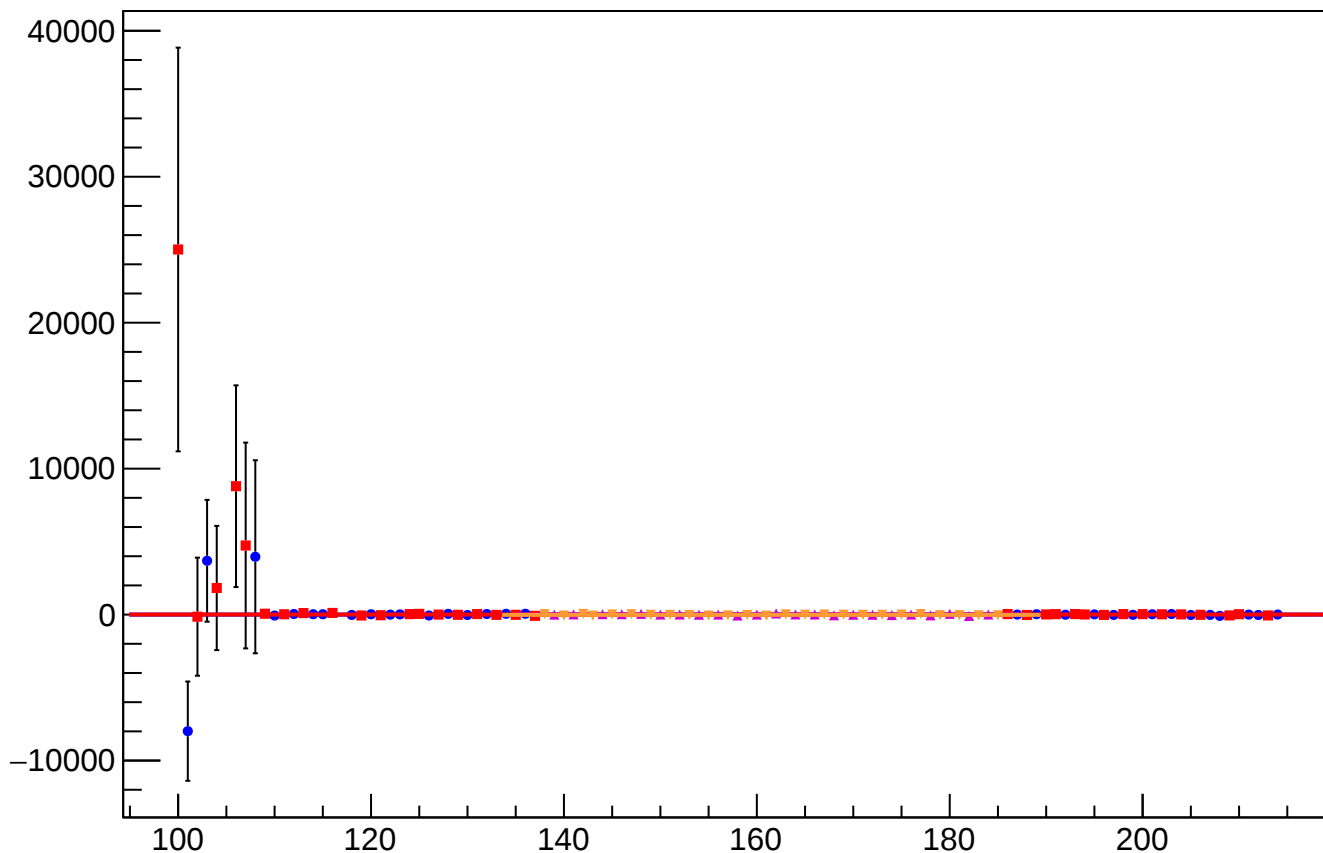
Right: 172.594 $\pm$ 0.023 χ^2 /NDF: 9950202.4/64

In: 178.235 $\pm$ 0.023 χ^2 /NDF:6034872.4/53

Out: 185.562 $\pm$ 0.024 χ^2 /NDF:7605285.5/58

All: 181.792 $\pm$ 0.016 χ^2 /NDF: 13689794.5/111

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.575 ± 7.065 χ^2/NDF : 31.2/30

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

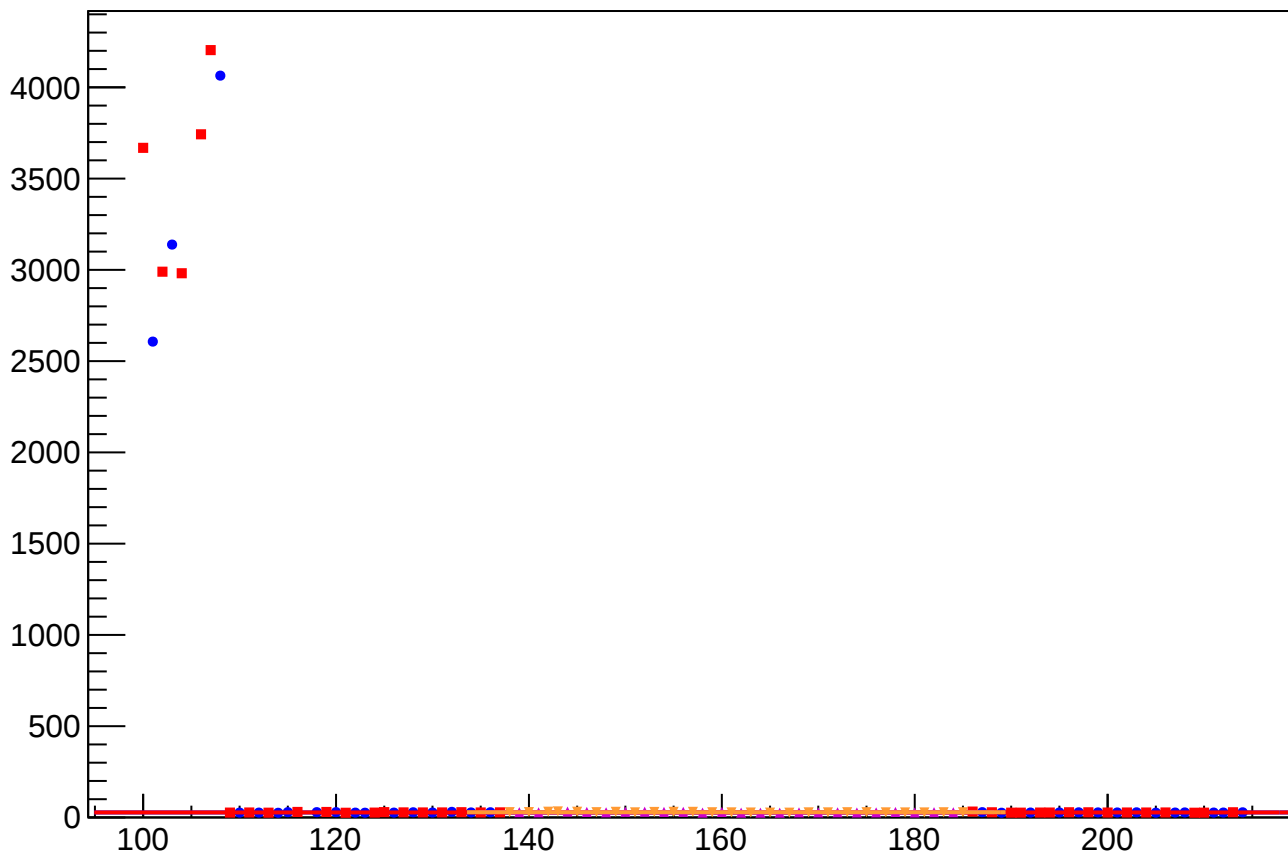
Right: 2.447 ± 4.985 χ^2/NDF : 70.1/64

In: 0.253 ± 4.929 χ^2/NDF : 63.7/53

Out: -6.639 ± 4.849 χ^2/NDF : 66.4/58

All: -3.250 ± 3.457 χ^2/NDF : 131.1/112

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.478+/-0.005 χ^2/NDF : 3043576.0/30

Left Out: 28.691+/-0.005 χ^2/NDF : 110483.8/24

Right Out: 27.471+/-0.005 χ^2/NDF : 3513839.6/33

Left In: 28.673+/-0.005 χ^2/NDF : 124751.4/22

Left: 28.682+/-0.003 χ^2/NDF : 235242.3/47

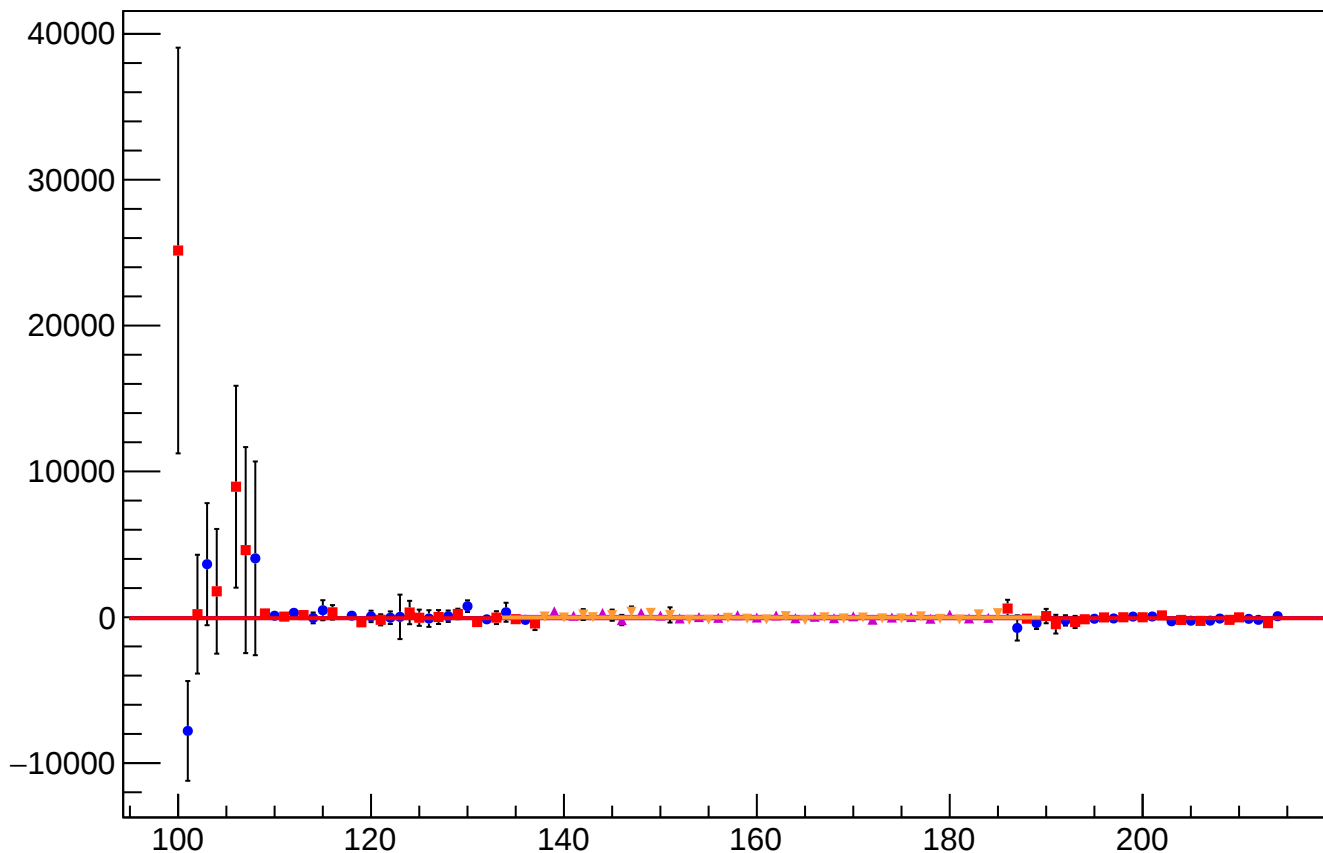
Right: 27.475+/-0.004 χ^2/NDF : 6557416.7/64

In: 28.091+/-0.003 χ^2/NDF : 3197658.3/53

Out: 28.111+/-0.003 χ^2/NDF : 3655876.2/58

All: 28.101+/-0.002 χ^2/NDF : 6853550.8/112

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.598+/-45.643 χ^2/NDF : 22.1/30

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

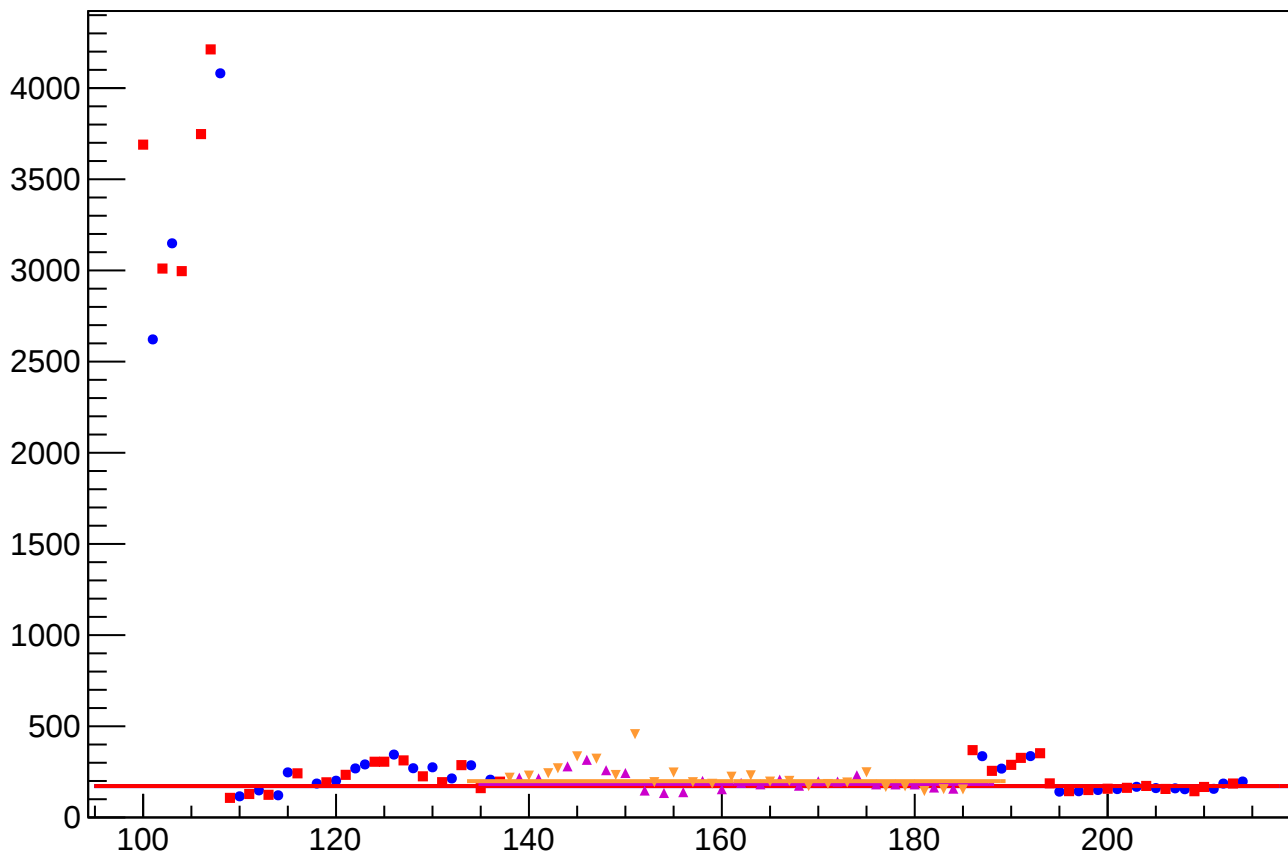
Right: -61.045+/-32.426 χ^2/NDF : 43.7/64

In: -15.425+/-32.324 χ^2/NDF : 31.6/53

Out: -41.079+/-33.276 χ^2/NDF : 30.8/58

All: -27.880+/-23.186 χ^2/NDF : 62.7/112

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.896 $\pm$ 0.032 χ^2 /NDF: 4561167.2/30

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

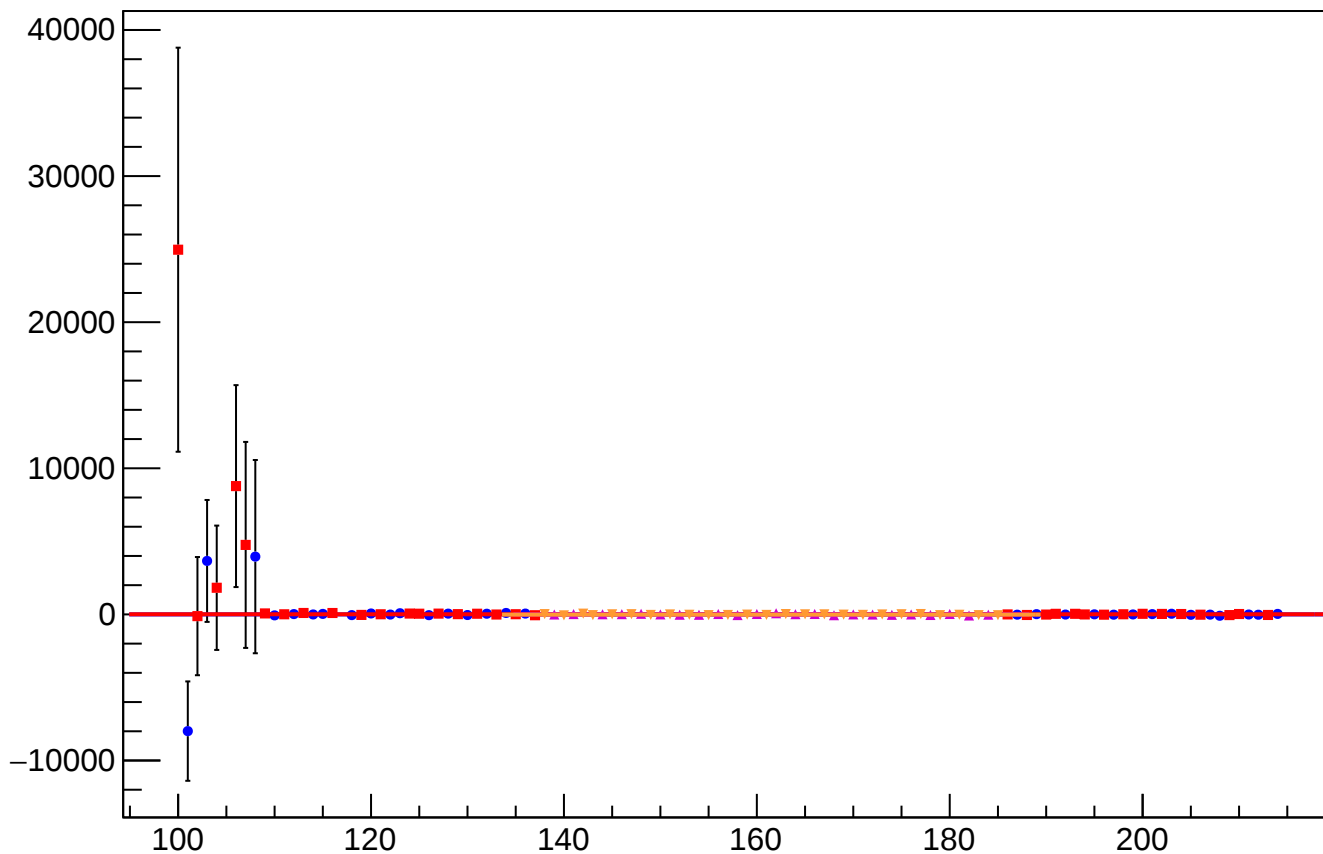
Right: 172.035 $\pm$ 0.023 χ^2 /NDF: 9981509.2/64

In: 177.763 $\pm$ 0.023 χ^2 /NDF:6050367.0/53

Out: 185.054 $\pm$ 0.024 χ^2 /NDF:7627216.4/58

All: 181.303 $\pm$ 0.016 χ^2 /NDF: 13726978.5/111

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.343 ± 7.029 χ^2/NDF : 36.2/30

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

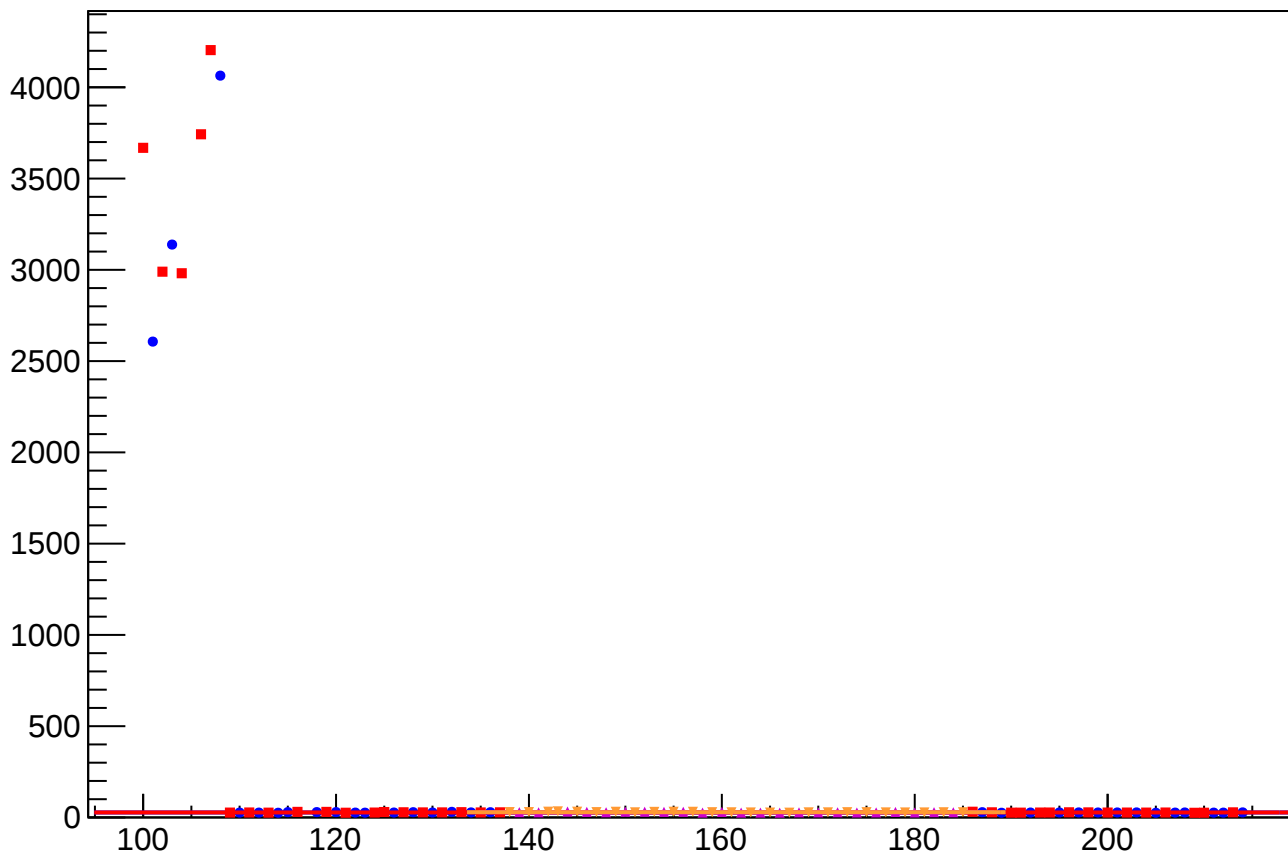
Right: 3.872 ± 4.964 χ^2/NDF : 70.2/64

In: -1.017 ± 4.927 χ^2/NDF : 62.6/53

Out: -3.477 ± 4.853 χ^2/NDF : 56.5/58

All: -2.266 ± 3.457 χ^2/NDF : 119.2/112

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.333 $\pm$ 0.005 χ^2 /NDF: 3051144.2/30

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF: 121973.8/24

Right Out: 27.381 $\pm$ 0.005 χ^2 /NDF: 3517454.5/33

Left In: 28.792 $\pm$ 0.005 χ^2 /NDF: 129393.1/22

Left: 28.803 $\pm$ 0.003 χ^2 /NDF: 251375.8/47

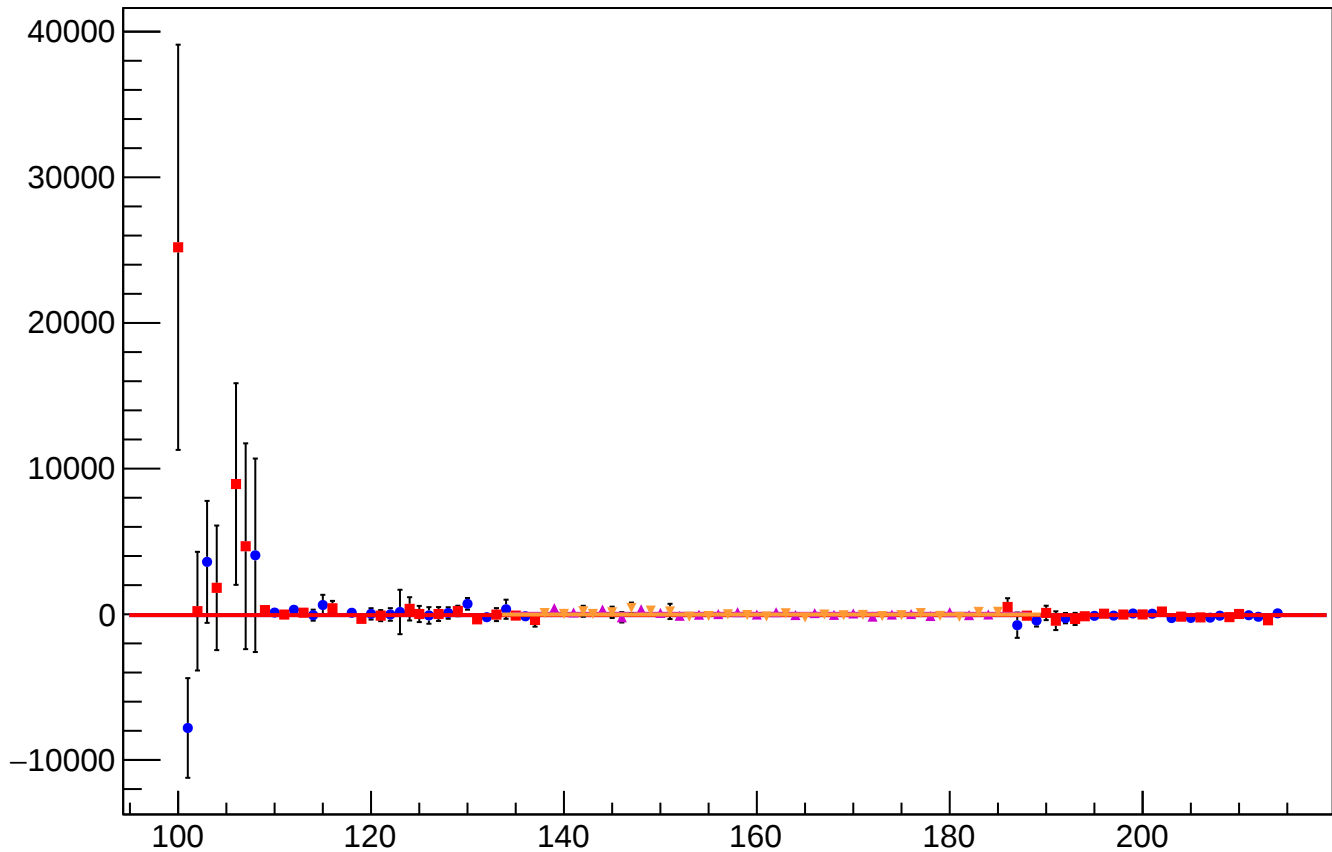
Right: 27.357 $\pm$ 0.004 χ^2 /NDF: 6568645.8/64

In: 28.075 $\pm$ 0.003 χ^2 /NDF: 3224384.7/53

Out: 28.127 $\pm$ 0.003 χ^2 /NDF: 3682857.1/58

All: 28.102 $\pm$ 0.002 χ^2 /NDF: 6907353.3/112

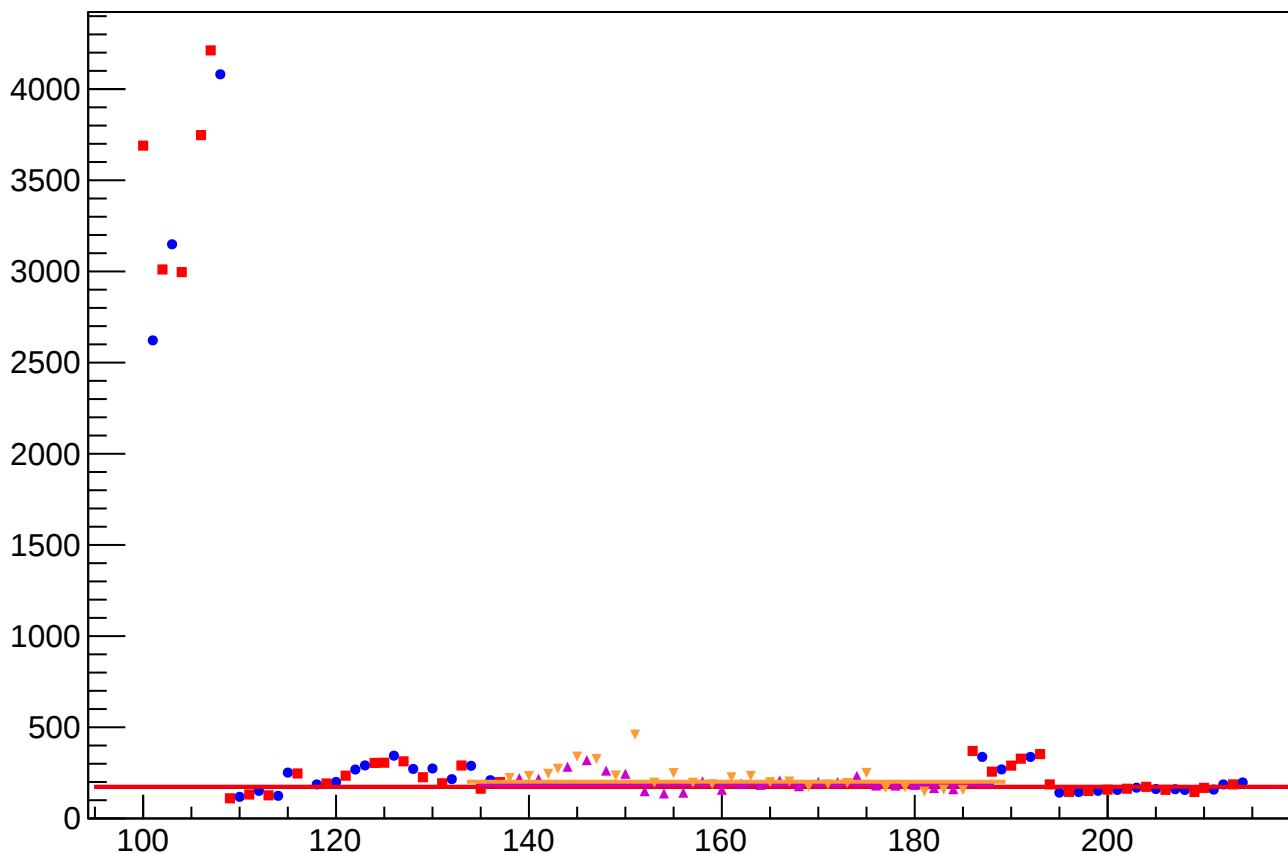
asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.714 ± 45.951 $\chi^2/\text{NDF}: 22.2/30$
 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: -56.954 ± 32.652 $\chi^2/\text{NDF}: 43.3/64$
 In: -13.160 ± 32.635 $\chi^2/\text{NDF}: 32.2/53$
 Out: -37.373 ± 33.592 $\chi^2/\text{NDF}: 29.5/58$
 All: -24.917 ± 23.408 $\chi^2/\text{NDF}: 61.9/112$

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.151+/-0.032 χ^2/NDF : 4527036.5/30

Left Out: 201.600+/-0.034 χ^2/NDF :1857453.2/24

Right Out: 173.615+/-0.033 χ^2/NDF : 5360565.2/33

Left In: 186.107+/-0.033 χ^2/NDF :1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

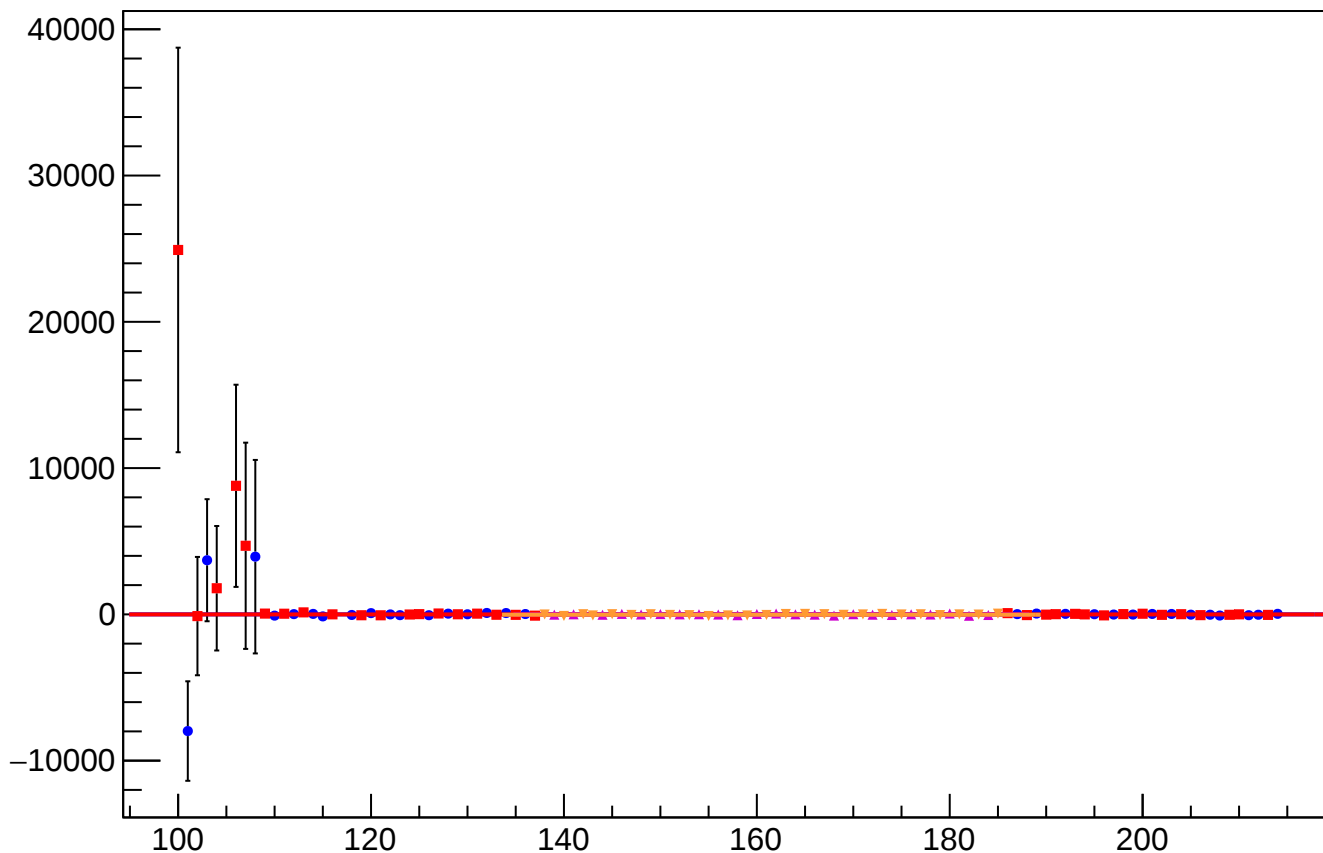
Right: 173.381+/-0.023 χ^2/NDF : 9887702.7/64

In: 179.572+/-0.023 χ^2/NDF :5997153.6/53

Out: 186.937+/-0.024 χ^2/NDF :7564233.4/58

All: 183.148+/-0.017 χ^2/NDF : 13610841.4/117

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.678 ± 8.582 $\chi^2/\text{NDF}: 31.9/30$

Left Out: -23.360 ± 8.064 $\chi^2/\text{NDF}: 25.8/24$

Right Out: -2.528 ± 8.557 $\chi^2/\text{NDF}: 35.8/33$

Left In: -6.001 ± 8.309 $\chi^2/\text{NDF}: 21.1/22$

Left: -14.939 ± 5.787 $\chi^2/\text{NDF}: 49.2/47$

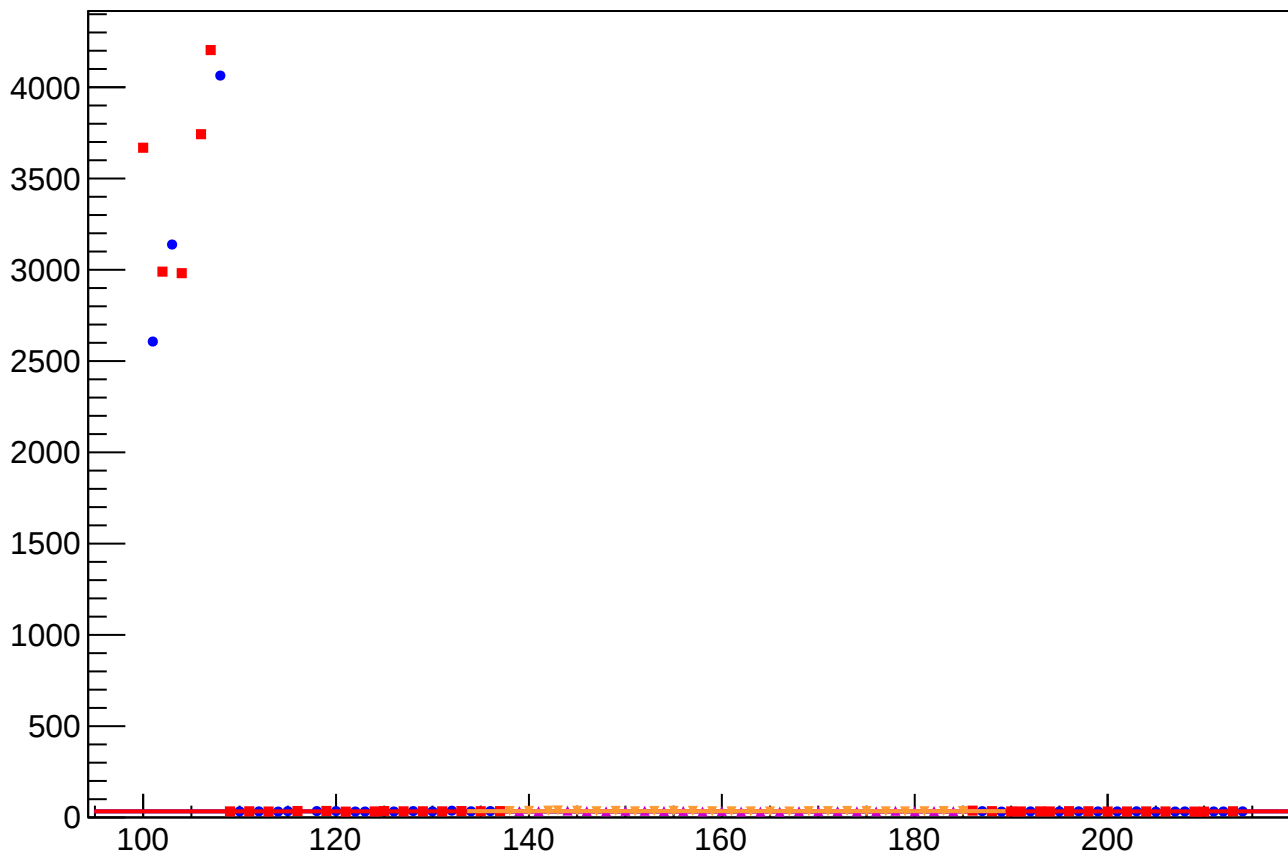
Right: -0.930 ± 6.059 $\chi^2/\text{NDF}: 67.8/64$

In: -2.769 ± 5.969 $\chi^2/\text{NDF}: 53.3/53$

Out: -13.561 ± 5.869 $\chi^2/\text{NDF}: 64.8/58$

All: -8.257 ± 4.185 $\chi^2/\text{NDF}: 119.8/112$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.393+/-0.006 χ^2/NDF : 3020527.9/30

Left Out: 34.614+/-0.006 χ^2/NDF : 57946.1/24

Right Out: 33.467+/-0.006 χ^2/NDF : 3474207.8/33

Left In: 34.685+/-0.006 χ^2/NDF : 60315.2/22

Left: 34.649+/-0.004 χ^2/NDF : 118335.7/47

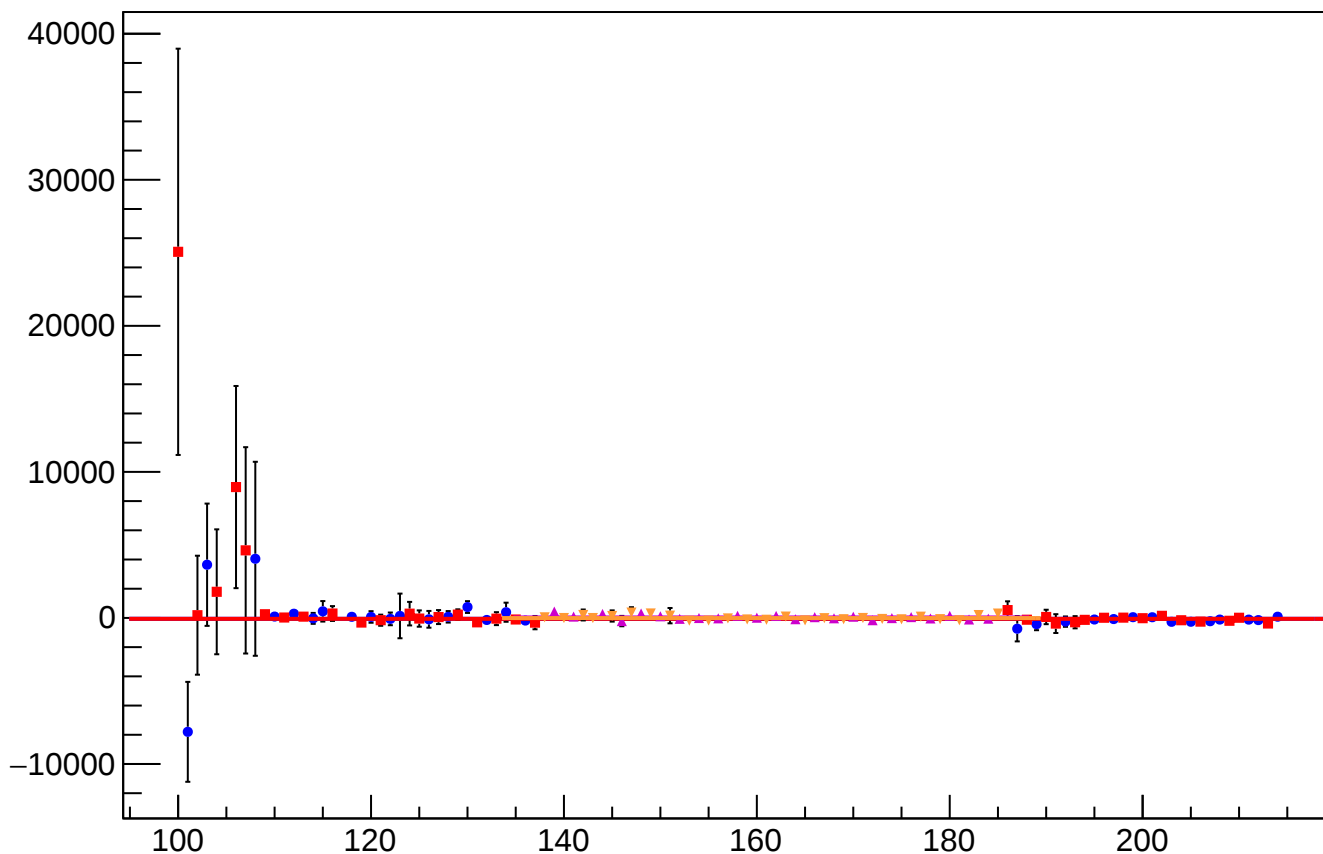
Right: 33.430+/-0.004 χ^2/NDF : 6494809.6/64

In: 34.060+/-0.004 χ^2/NDF : 3104243.2/53

Out: 34.075+/-0.004 χ^2/NDF : 3551207.3/58

All: 34.067+/-0.003 χ^2/NDF : 6655456.7/112

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.940 ± 45.819 χ^2/NDF : 22.0/30

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

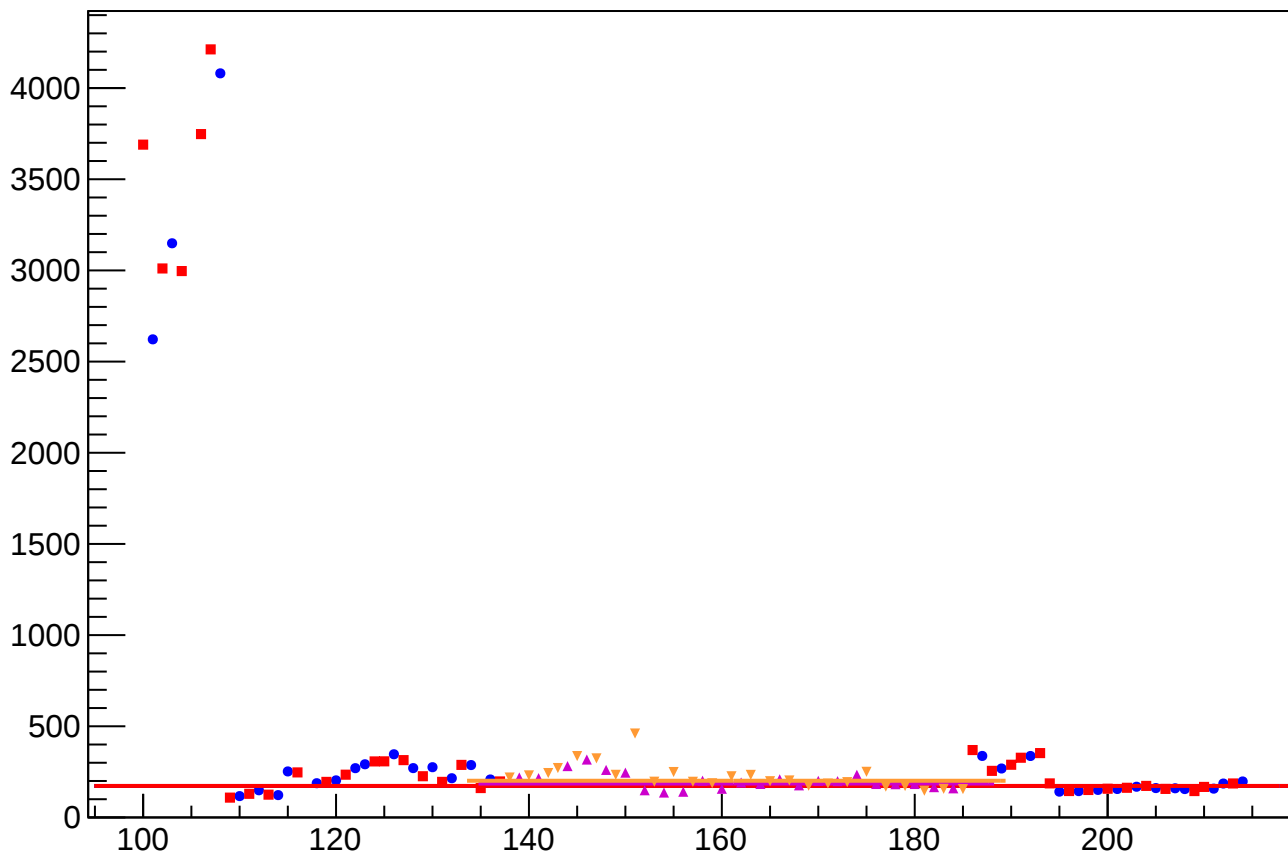
Right: -61.101 ± 32.546 χ^2/NDF : 41.4/64

In: -13.899 ± 32.566 χ^2/NDF : 31.5/53

Out: -36.403 ± 33.504 χ^2/NDF : 28.7/58

All: -24.832 ± 23.352 χ^2/NDF : 60.4/112

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.574+/-0.032 χ^2/NDF : 4556676.9/30

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

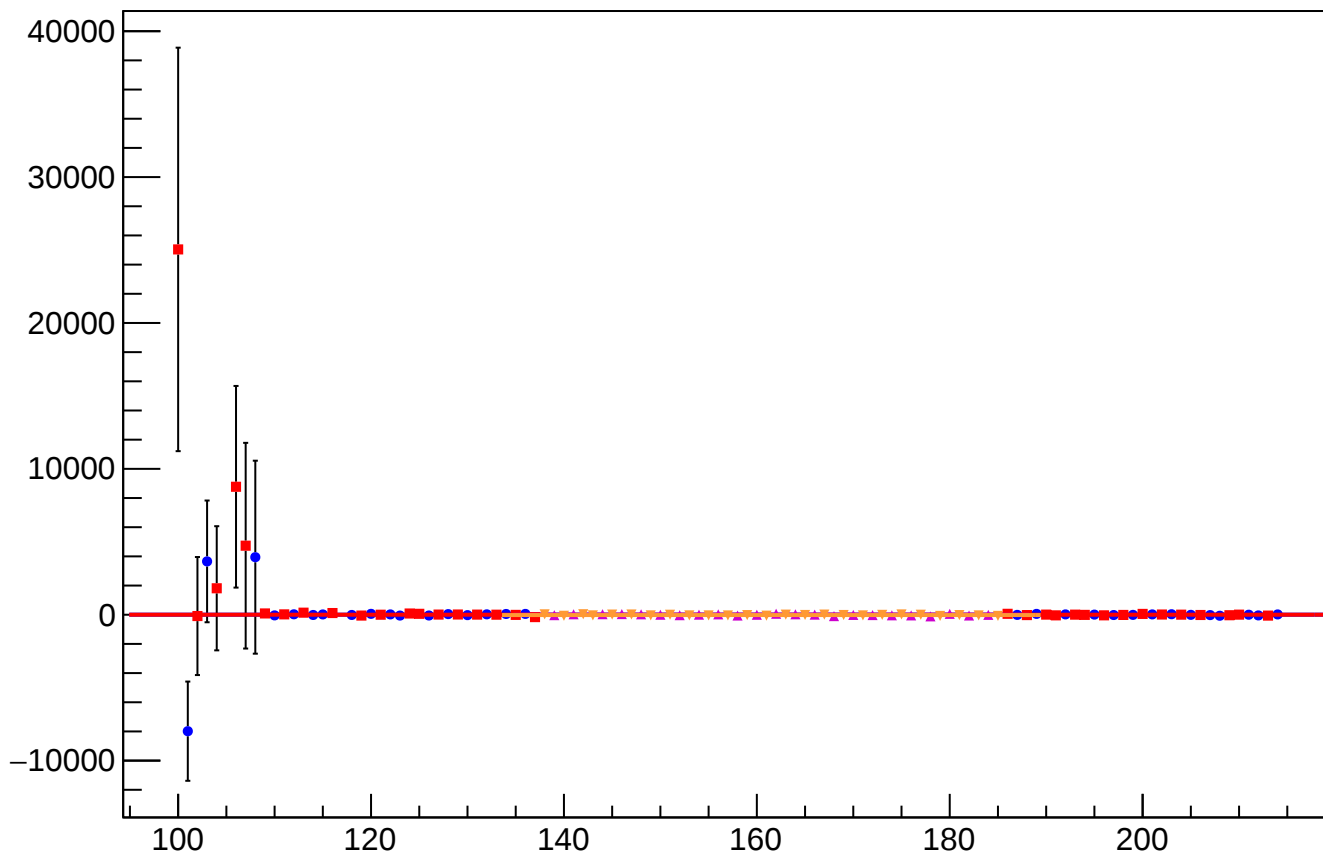
Right: 172.699+/-0.023 χ^2/NDF : 9965380.7/64

In: 179.145+/-0.023 χ^2/NDF : 6021586.9/53

Out: 186.349+/-0.024 χ^2/NDF : 7619923.1/58

All: 182.645+/-0.017 χ^2/NDF : 13689051.2/117

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.040+/-7.766 χ^2/NDF : 25.5/30

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

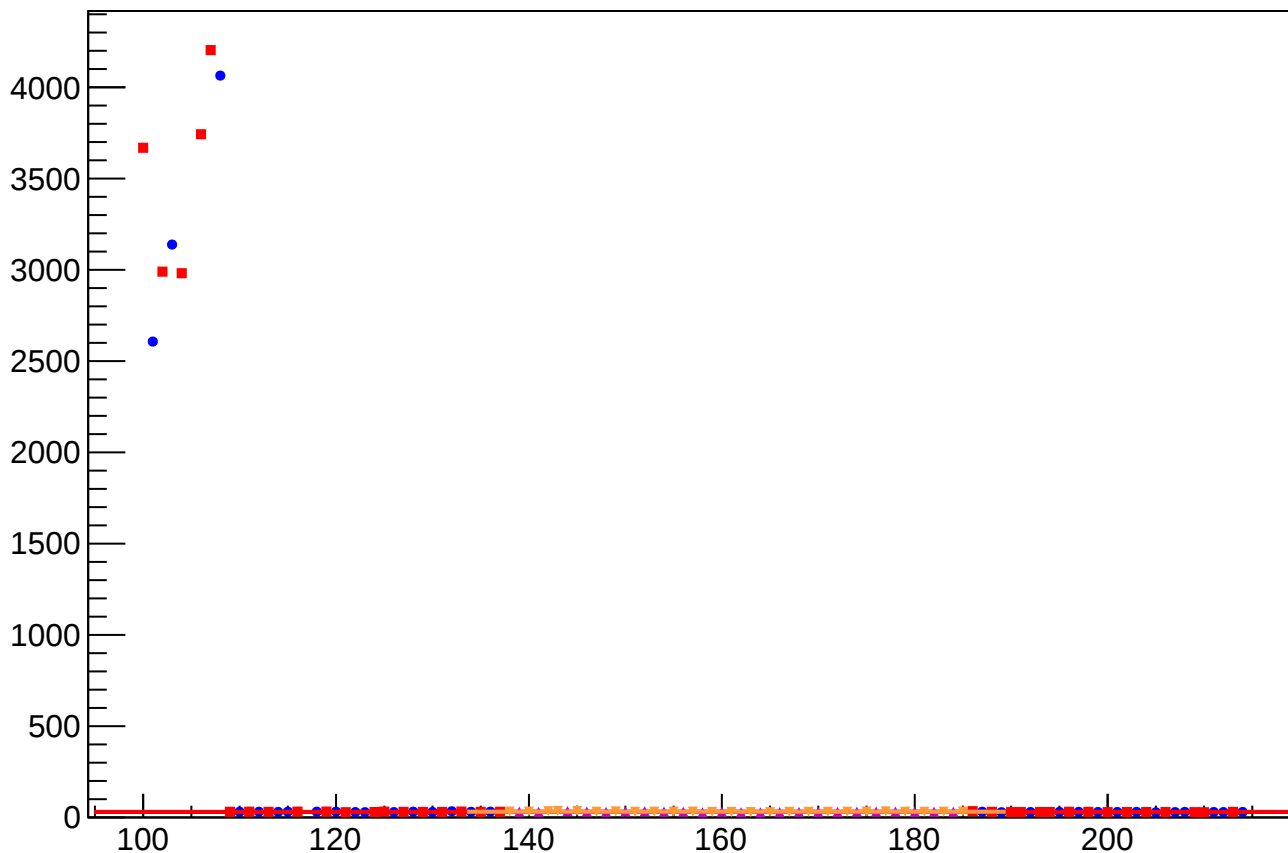
Right: 2.515+/-5.484 χ^2/NDF : 67.3/64

In: -1.579+/-5.413 χ^2/NDF :64.5/53

Out: -11.111+/-5.328 χ^2/NDF :66.0/58

All: -6.421+/-3.797 χ^2/NDF : 132.1/112

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.211 $\pm$ 0.005 χ^2 /NDF: 3038370.7/30

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

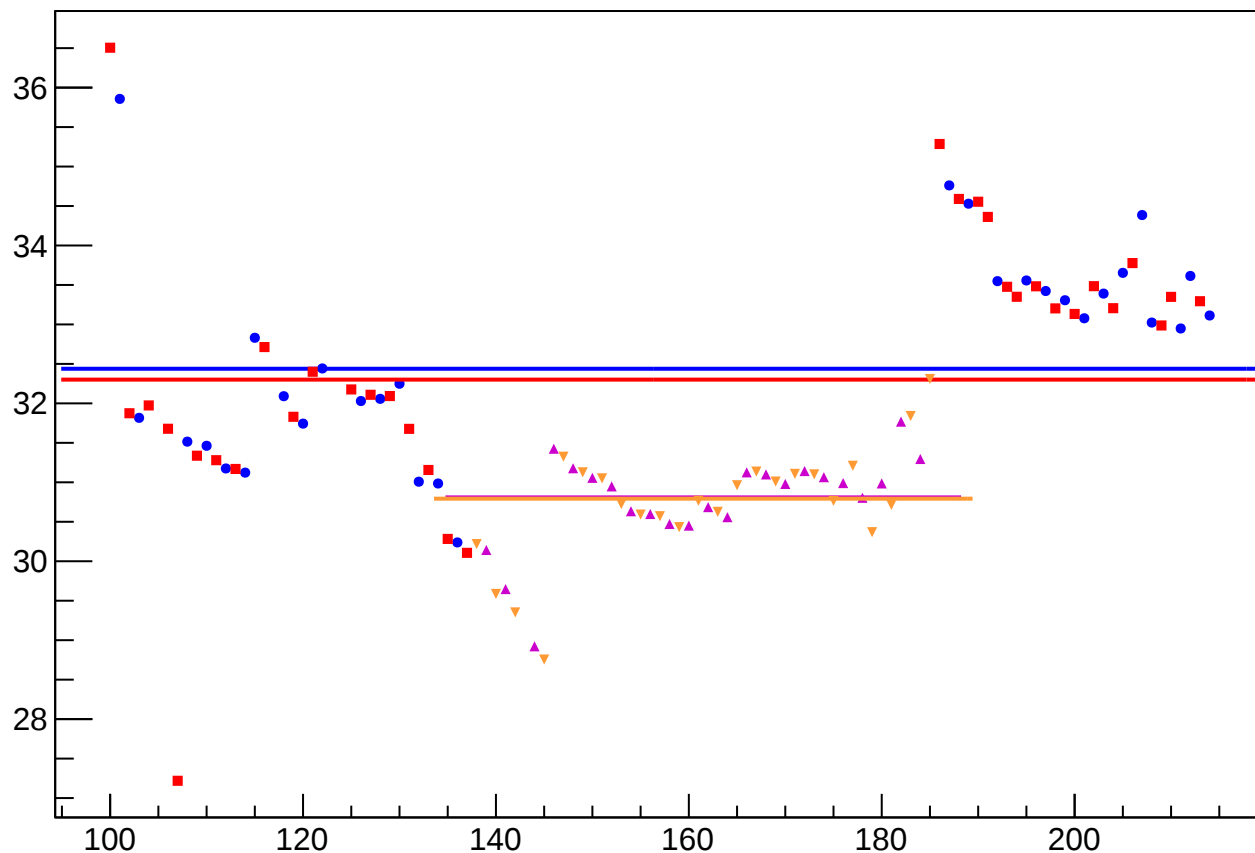
Right: 30.239 $\pm$ 0.004 χ^2 /NDF: 6530603.3/64

In: 30.866 $\pm$ 0.004 χ^2 /NDF:3154010.4/53

Out: 30.907 $\pm$ 0.004 χ^2 /NDF:3600503.9/58

All: 30.887 $\pm$ 0.003 χ^2 /NDF: 6754574.5/112

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.439+/-0.000

χ^2/NDF : 2975702279.4/29

Left Out: 30.793+/-0.000

χ^2/NDF : 1007261340.7/23

Right Out: 32.301+/-0.000

χ^2/NDF : 2528221588.4/32

Left In: 30.809+/-0.000

χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000

χ^2/NDF : 1829591088.1/46

Right: 32.372+/-0.000

χ^2/NDF : 5521951993.4/62

In: 31.502+/-0.000

χ^2/NDF : 6807221508.5/52

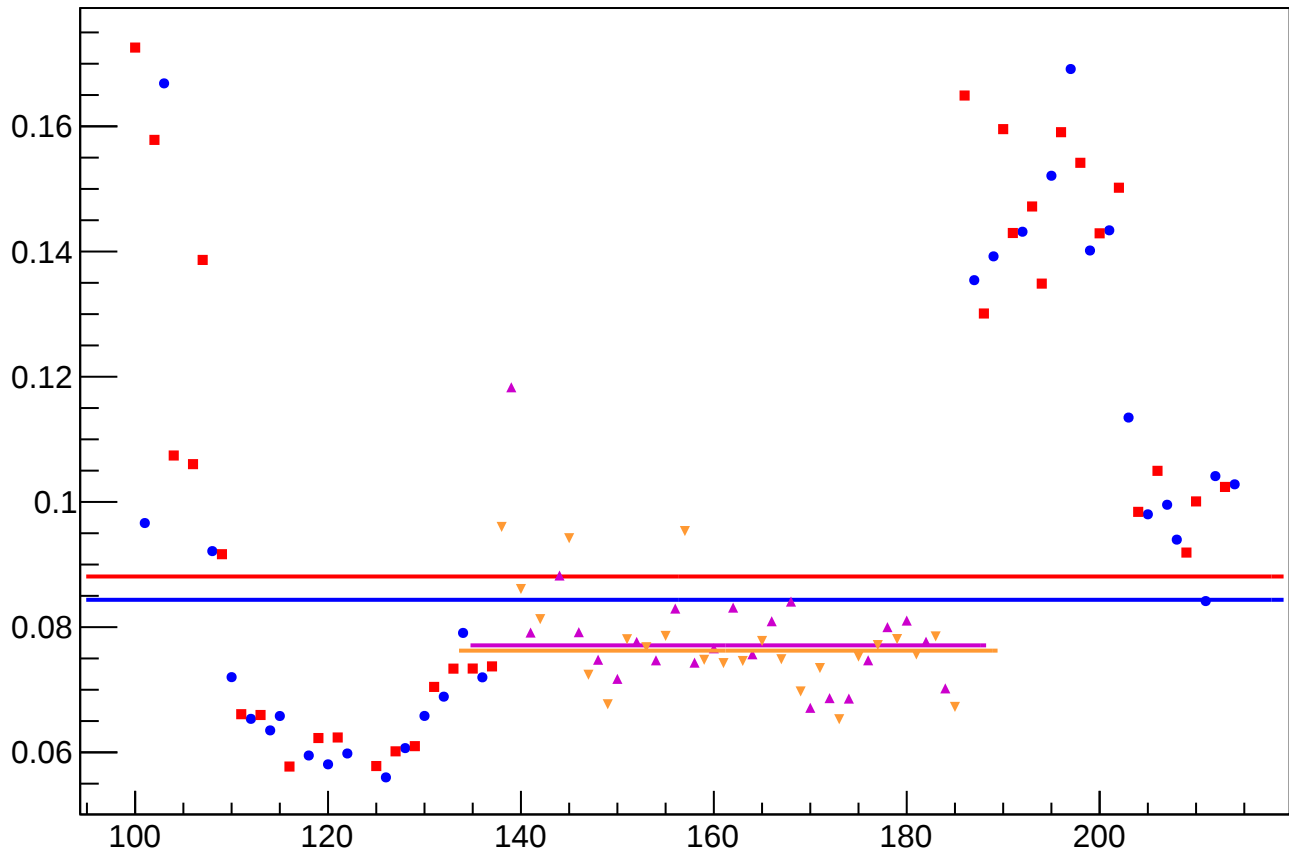
Out: 31.395+/-0.000

χ^2/NDF : 6043691369.4/56

All: 31.449+/-0.000

χ^2/NDF : 12877235271.3

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.084 $\pm$ 0.000 χ^2 /NDF: 3241566.8/29

Left Out: 0.076 $\pm$ 0.000 χ^2 /NDF:277876.5/23

Right Out: 0.088 $\pm$ 0.000 χ^2 /NDF: 3659822.0/32

Left In: 0.077 $\pm$ 0.000 χ^2 /NDF:325844.3/22

Left: 0.077 $\pm$ 0.000 χ^2 /NDF: 605642.6/46

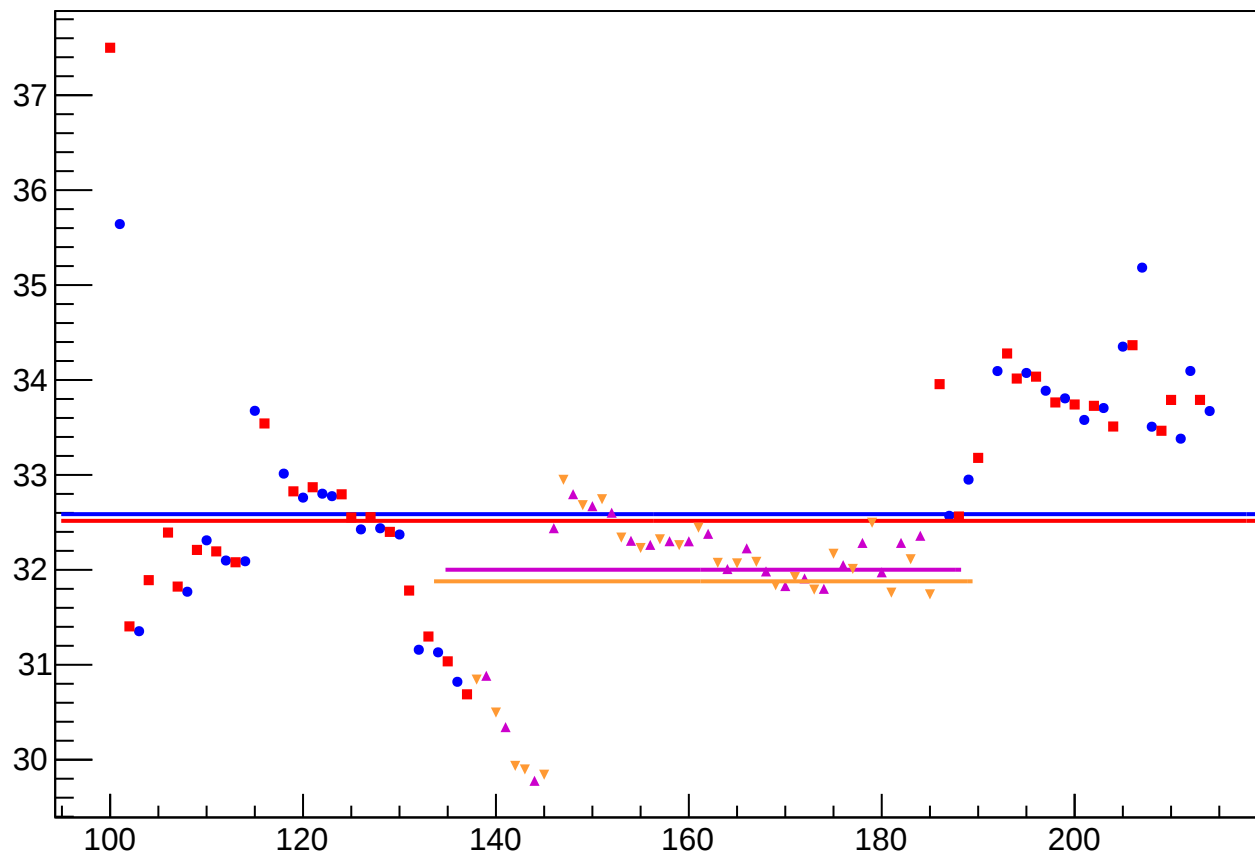
Right: 0.086 $\pm$ 0.000 χ^2 /NDF: 6927766.1/62

In: 0.080 $\pm$ 0.000 χ^2 /NDF:3687487.2/52

Out: 0.081 $\pm$ 0.000 χ^2 /NDF:4247042.2/56

All: 0.081 $\pm$ 0.000 χ^2 /NDF: 7937450.8/109

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.587 $\pm$ 0.000 χ^2 /NDF: 1598194991.4/30

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

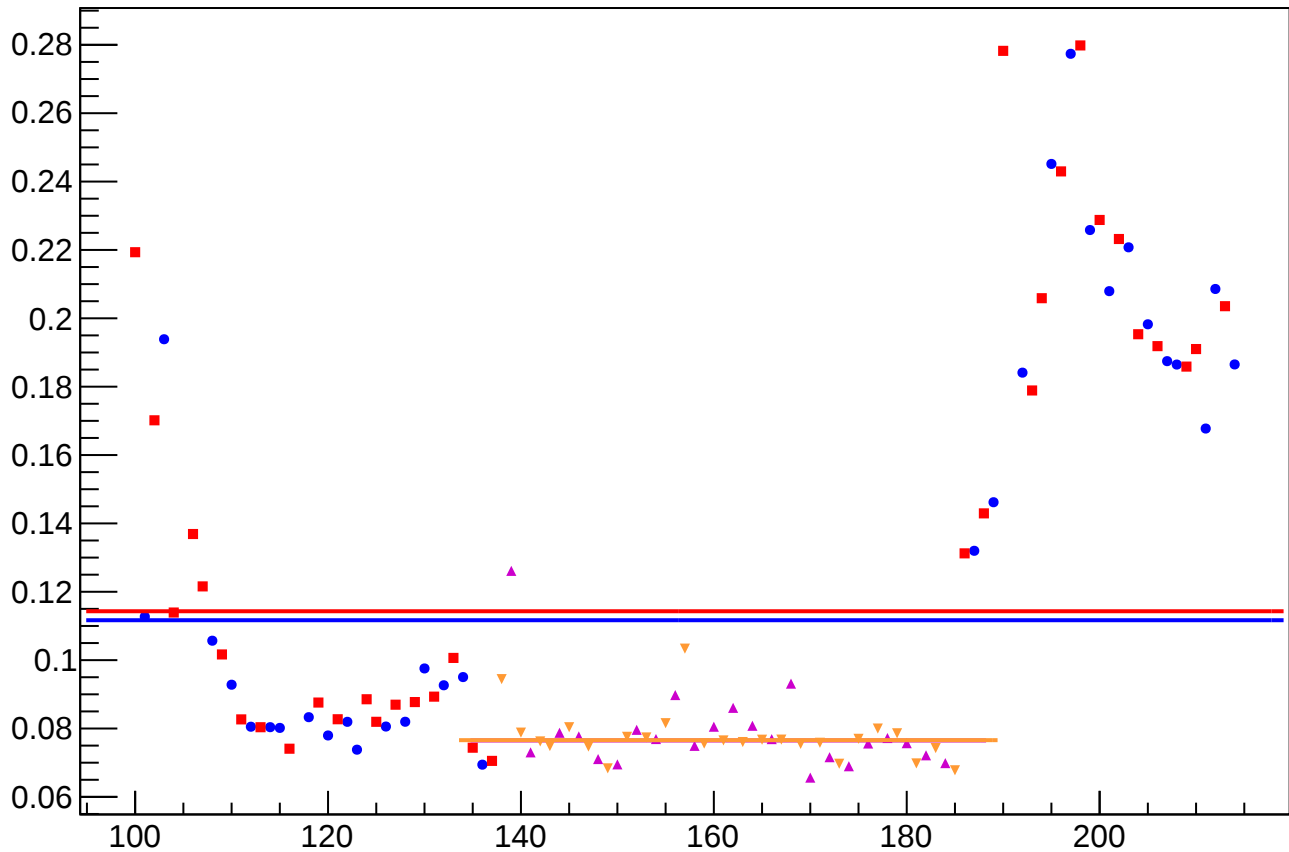
Right: 32.552 $\pm$ 0.000 χ^2 /NDF: 2539451401.5/63

In: 32.161 $\pm$ 0.000 χ^2 /NDF: 3265662931.0/53

Out: 32.045 $\pm$ 0.000 χ^2 /NDF: 3219035605.5/57

All: 32.102 $\pm$ 0.000 χ^2 /NDF: 6510344570.8/1

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.112 $\pm$ 0.000 χ^2 /NDF: 5444296.9/30

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

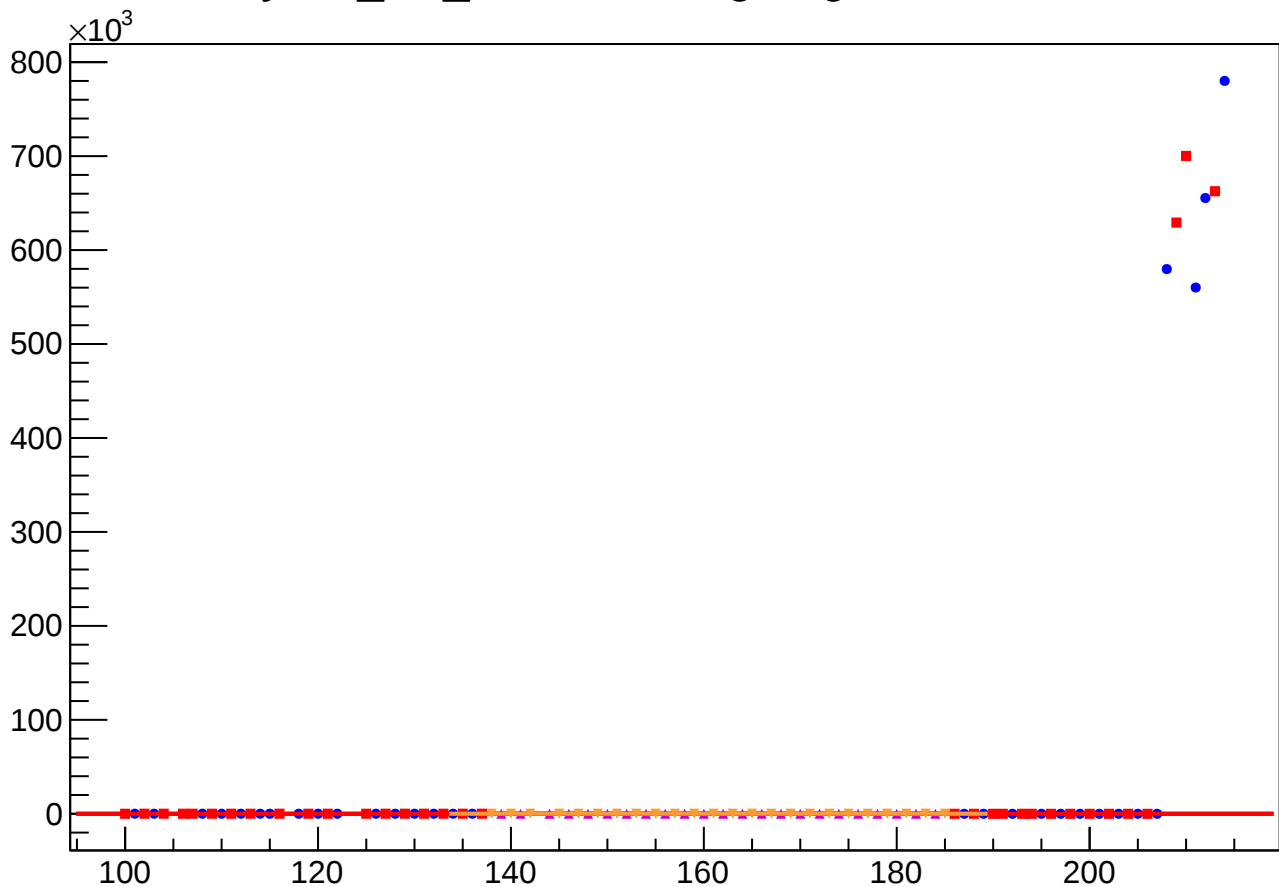
Right: 0.113 $\pm$ 0.000 χ^2 /NDF: 10527219.5/63

In: 0.086 $\pm$ 0.000 χ^2 /NDF:7728362.3/53

Out: 0.086 $\pm$ 0.000 χ^2 /NDF:7416177.5/57

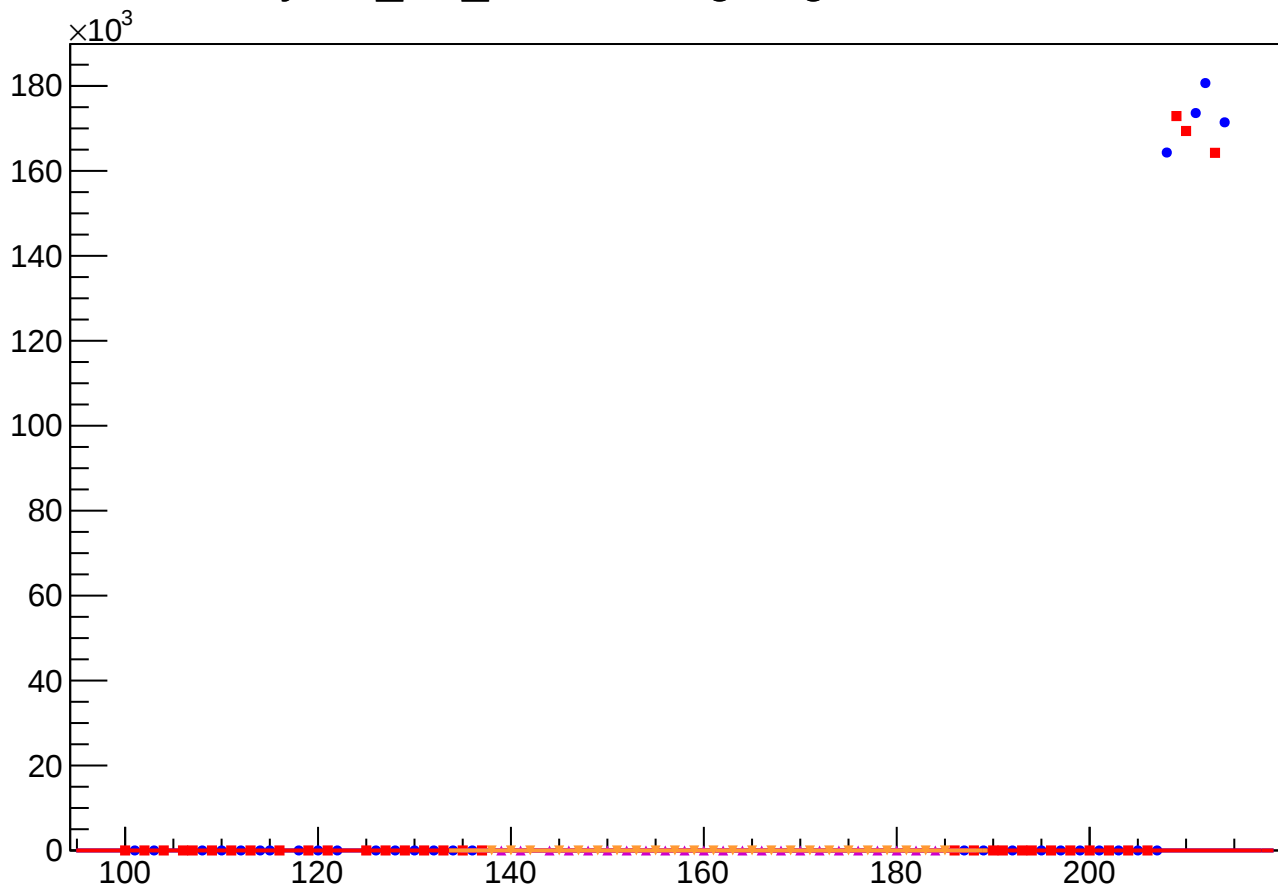
All: 0.086 $\pm$ 0.000 χ^2 /NDF: 15144961.7/111

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853544527718.2/29	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 : 22419894677734.2/
Right Out: 51.099+/-0.000	χ^2/NDF : 11528442668478.4/32	In: 71.422+/-0.000	χ^2/NDF : 13699381339077.3/52
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 69.320+/-0.000	χ^2/NDF : 15306995430507.8/5
		All: 70.353+/-0.000	χ^2/NDF : 2903830244523

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 6125441.0/29

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

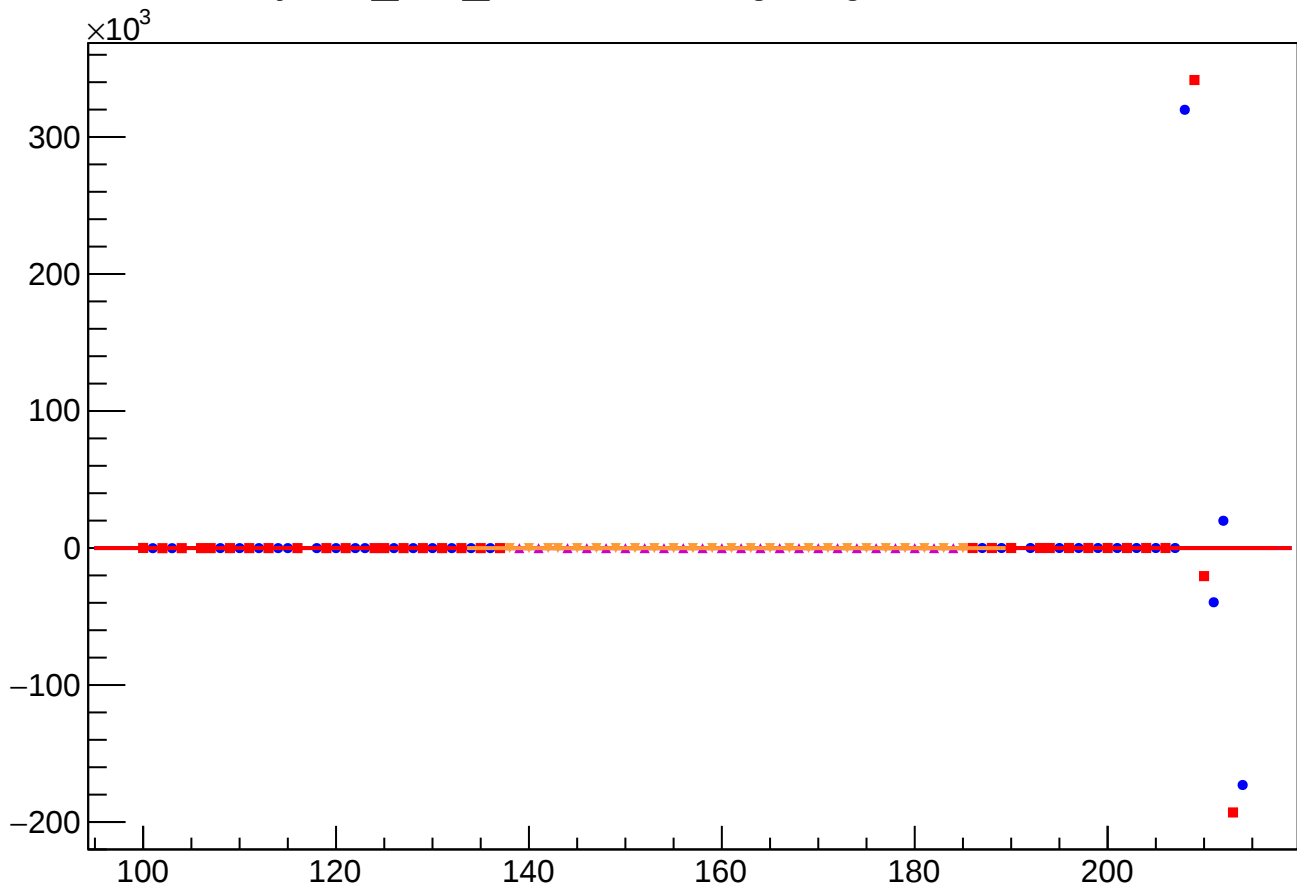
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 11103066.9/62

In: 0.046 $\pm$ 0.000 χ^2 /NDF:6394755.8/52

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:5203874.4/56

All: 0.046 $\pm$ 0.000 χ^2 /NDF: 11599173.2/109

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000

χ^2/NDF : 7479129219127.5/30

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 : 14808900601613.9

Right Out: -28.760+/-0.000

χ^2/NDF : 7325681975702.7/32

In: -50.762+/-0.000

χ^2/NDF : 11497070813020.6/5

Out: -50.075+/-0.000

χ^2/NDF : 11926091267200.9/

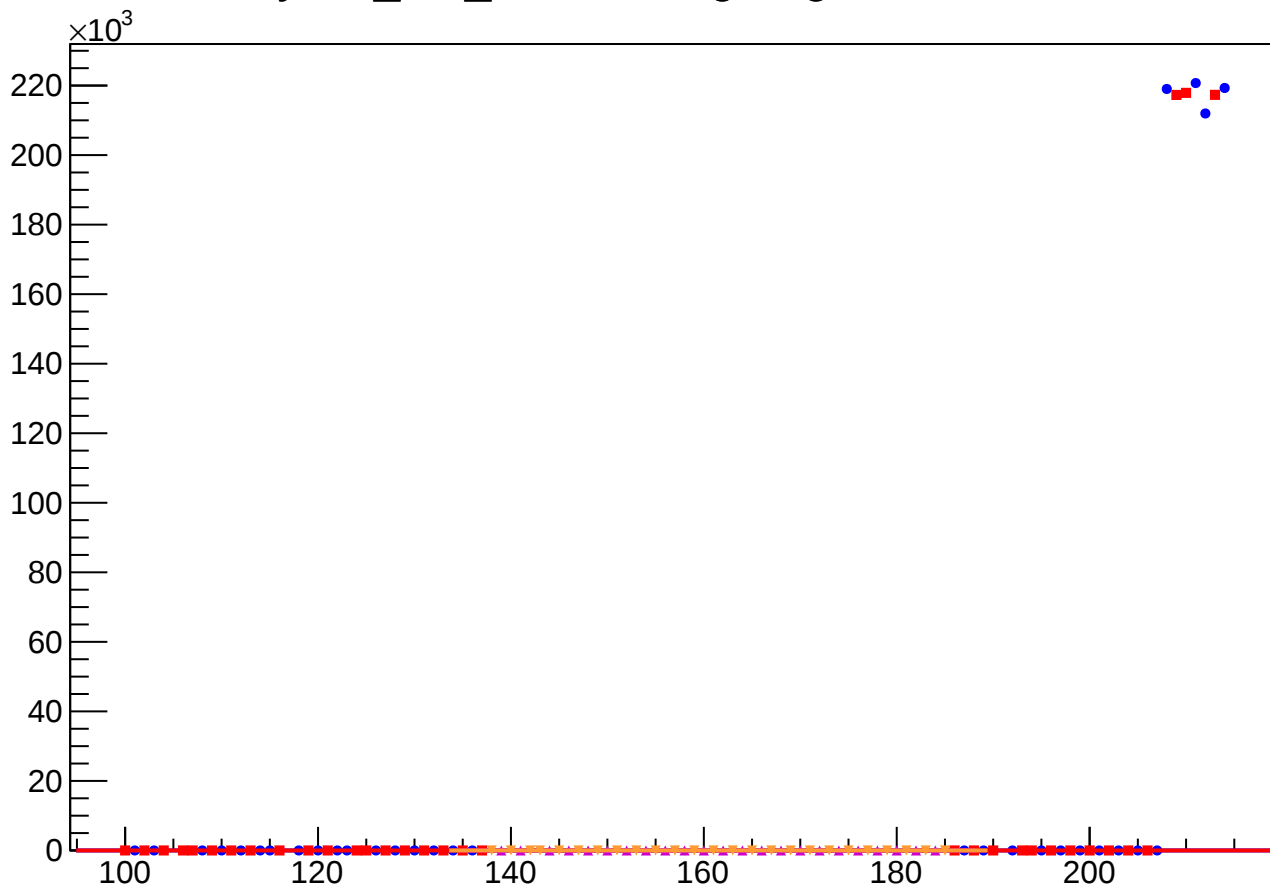
Left In: -69.458+/-0.000

χ^2/NDF : 52798704.3/22

All: -50.406+/-0.000

χ^2/NDF : 234256944101

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 5853774.2/30

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

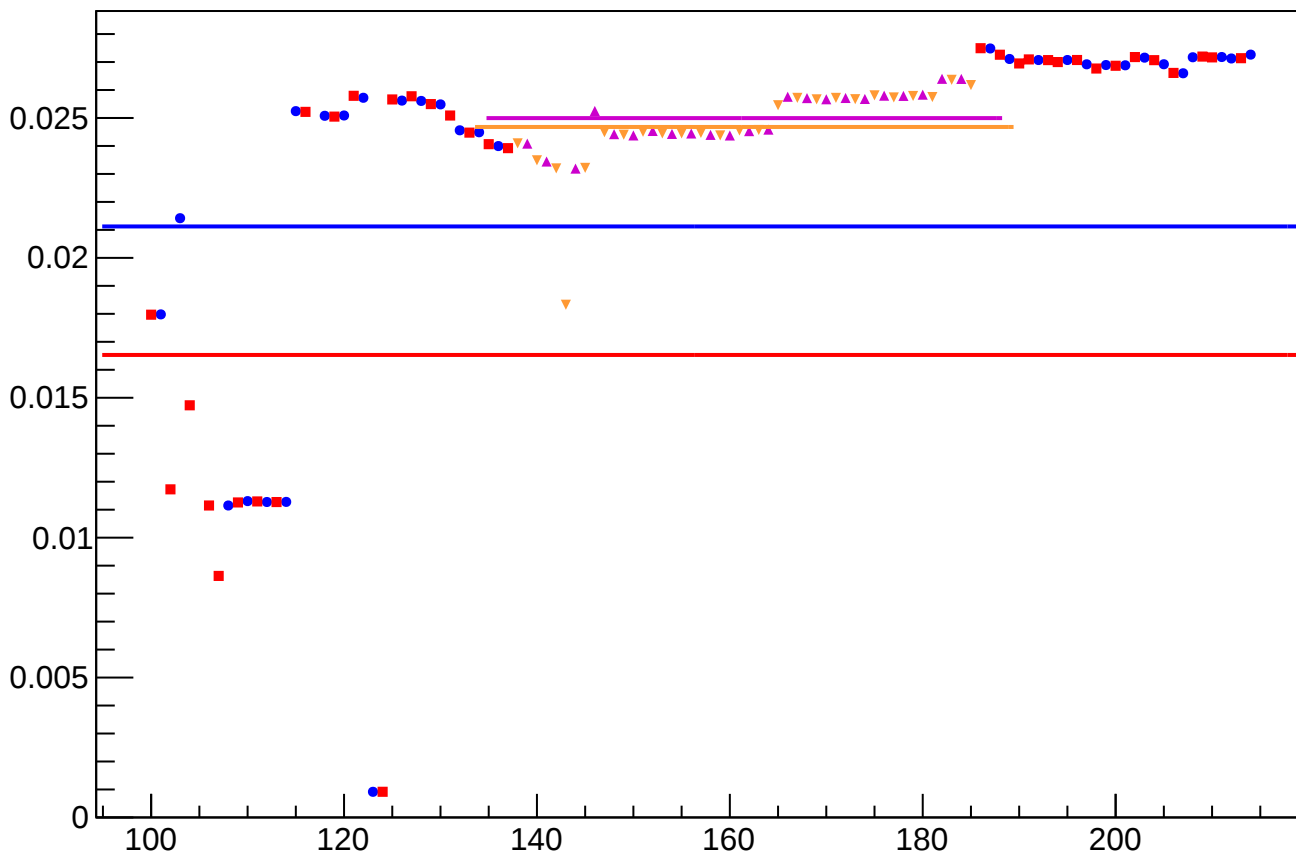
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 10433110.9/63

In: 0.054 $\pm$ 0.000 χ^2 /NDF:5967825.5/53

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:4673942.7/57

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 10642465.9/111

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.021+/-0.000

χ^2/NDF : 197696764763.7/30

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.019+/-0.000

χ^2/NDF : 662058645720.2/64

Right Out: 0.017+/-0.000

χ^2/NDF : 430739877035.8/33

In: 0.023+/-0.000

χ^2/NDF : 223870731017.1/53

Out: 0.021+/-0.000

χ^2/NDF : 561544693322.3/58

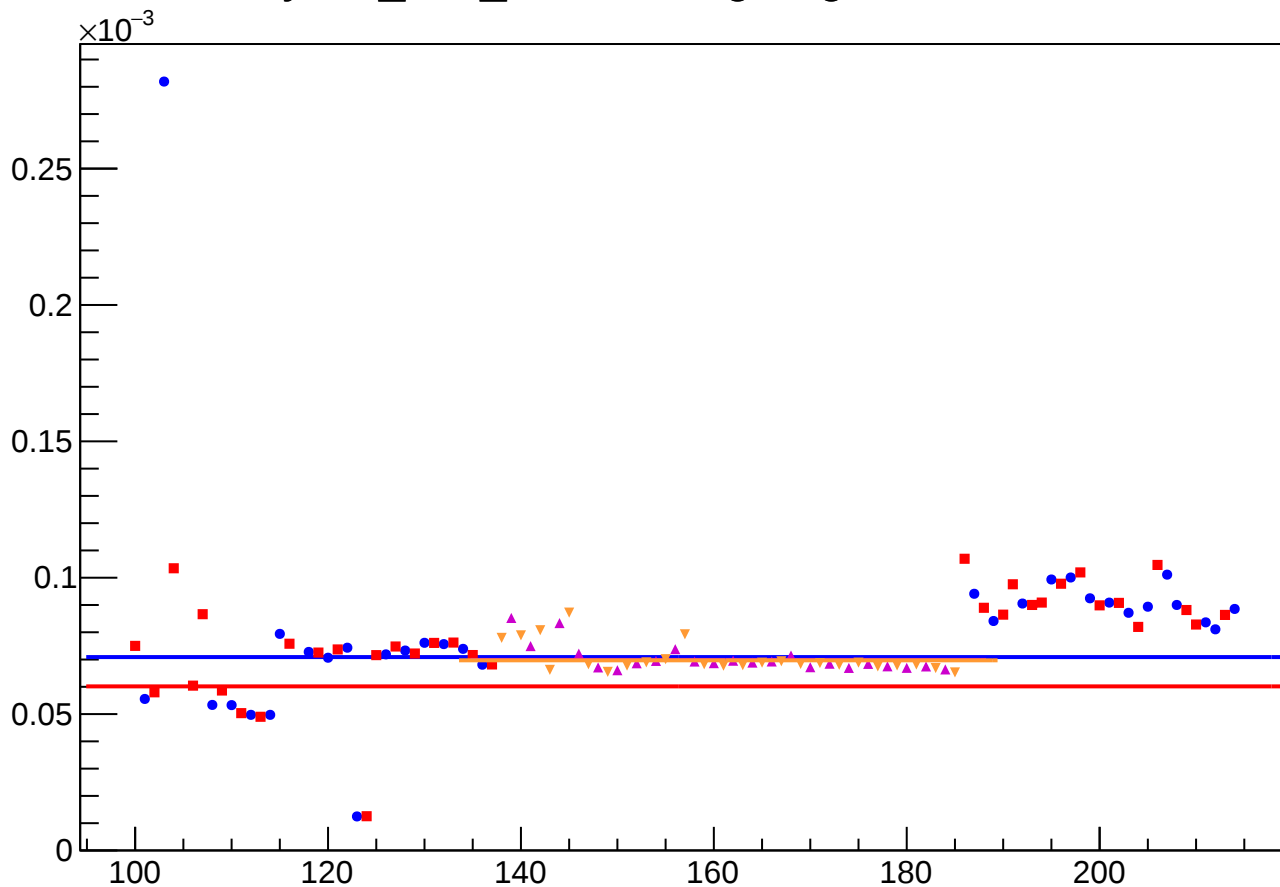
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 808032337373.3

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3624567.8/30

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

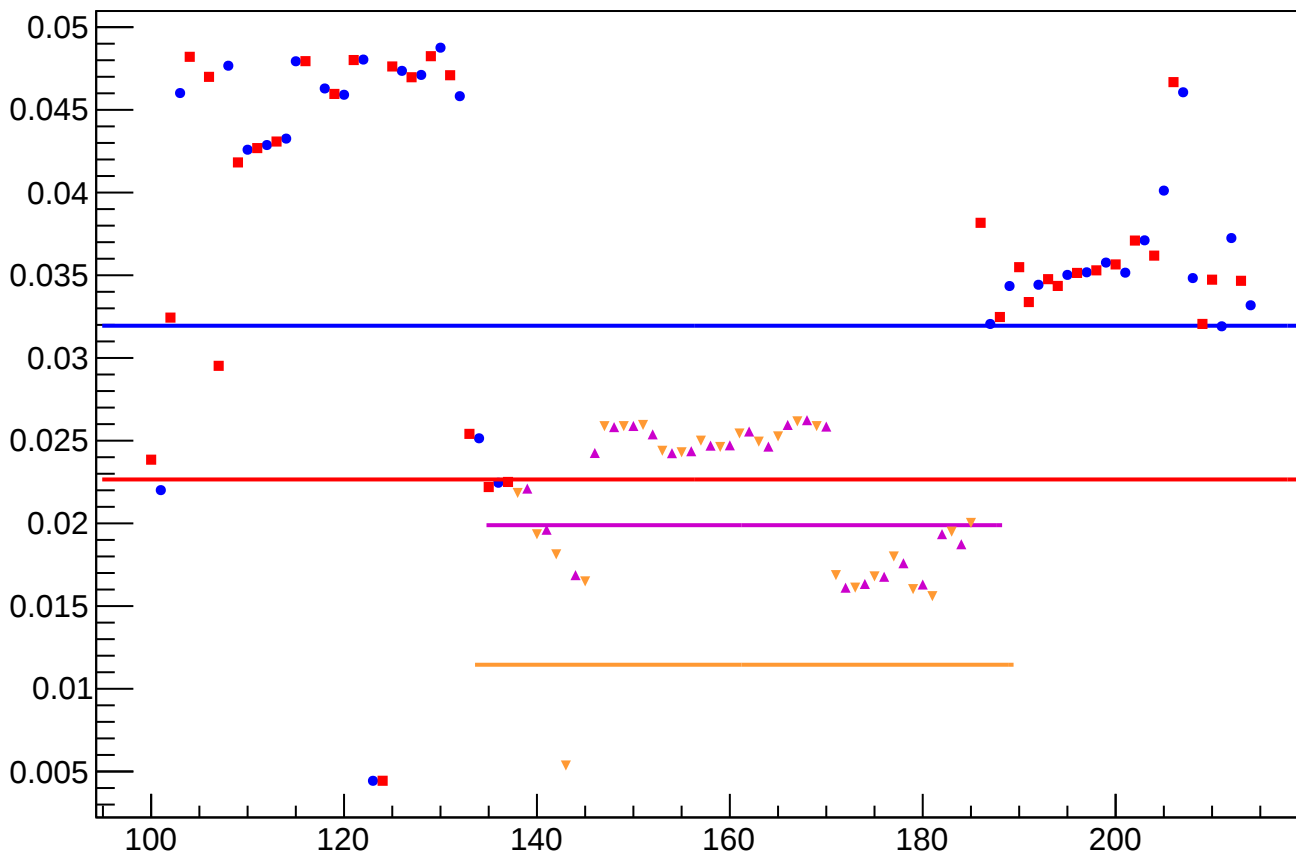
Right: 0.000+/-0.000 χ^2/NDF : 11096437.2/64

In: 0.000+/-0.000 χ^2/NDF :3757316.1/53

Out: 0.000+/-0.000 χ^2/NDF :7595334.9/58

All: 0.000+/-0.000 χ^2/NDF : 11544176.7/112

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 21788888489.7/30

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 : 71528175554.4/64

Right Out: 0.023+/-0.000

χ^2/NDF : 44852299973.9/33

In: 0.023+/-0.000

χ^2/NDF : 36581574381.6/53

Out: 0.013+/-0.000

χ^2/NDF : 100045487976.9/58

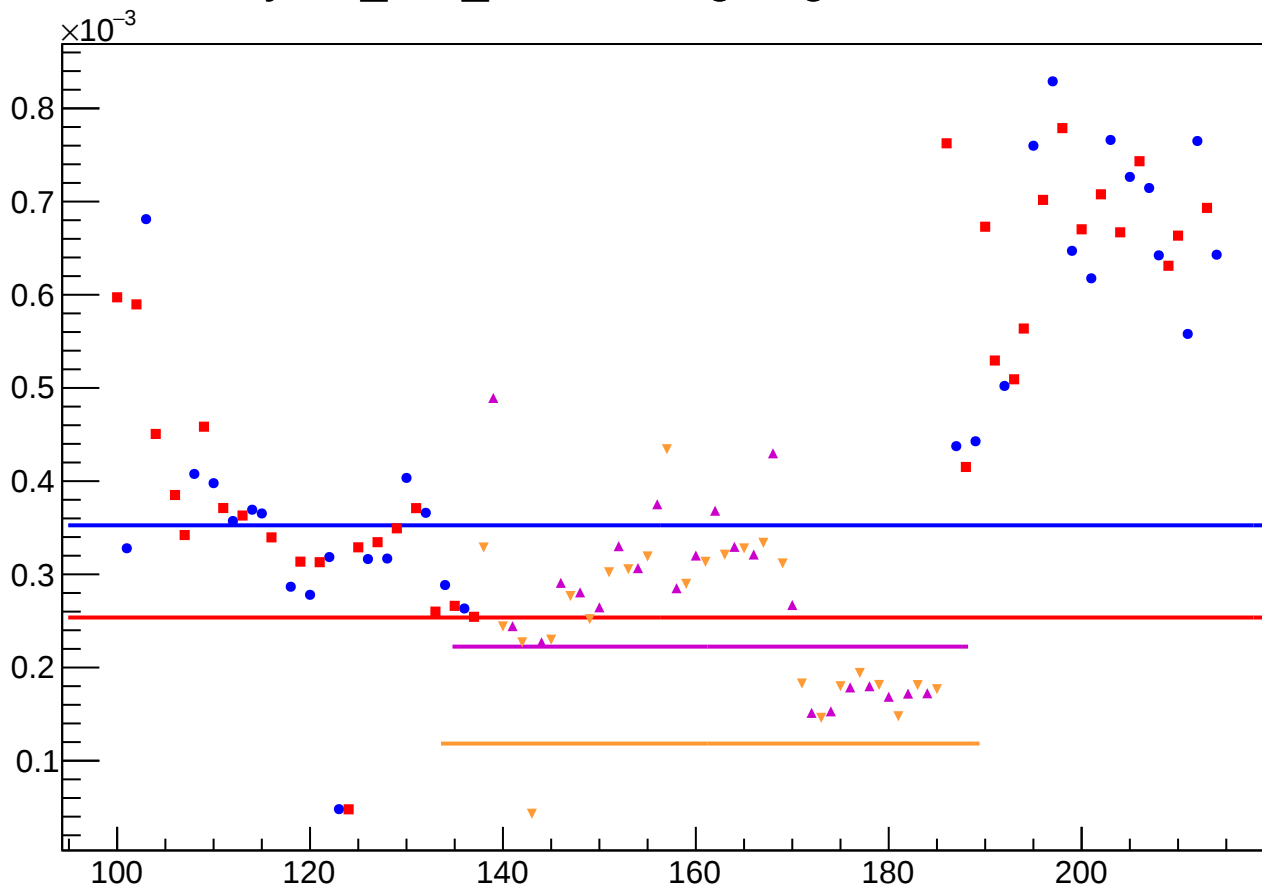
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 160717583028.3

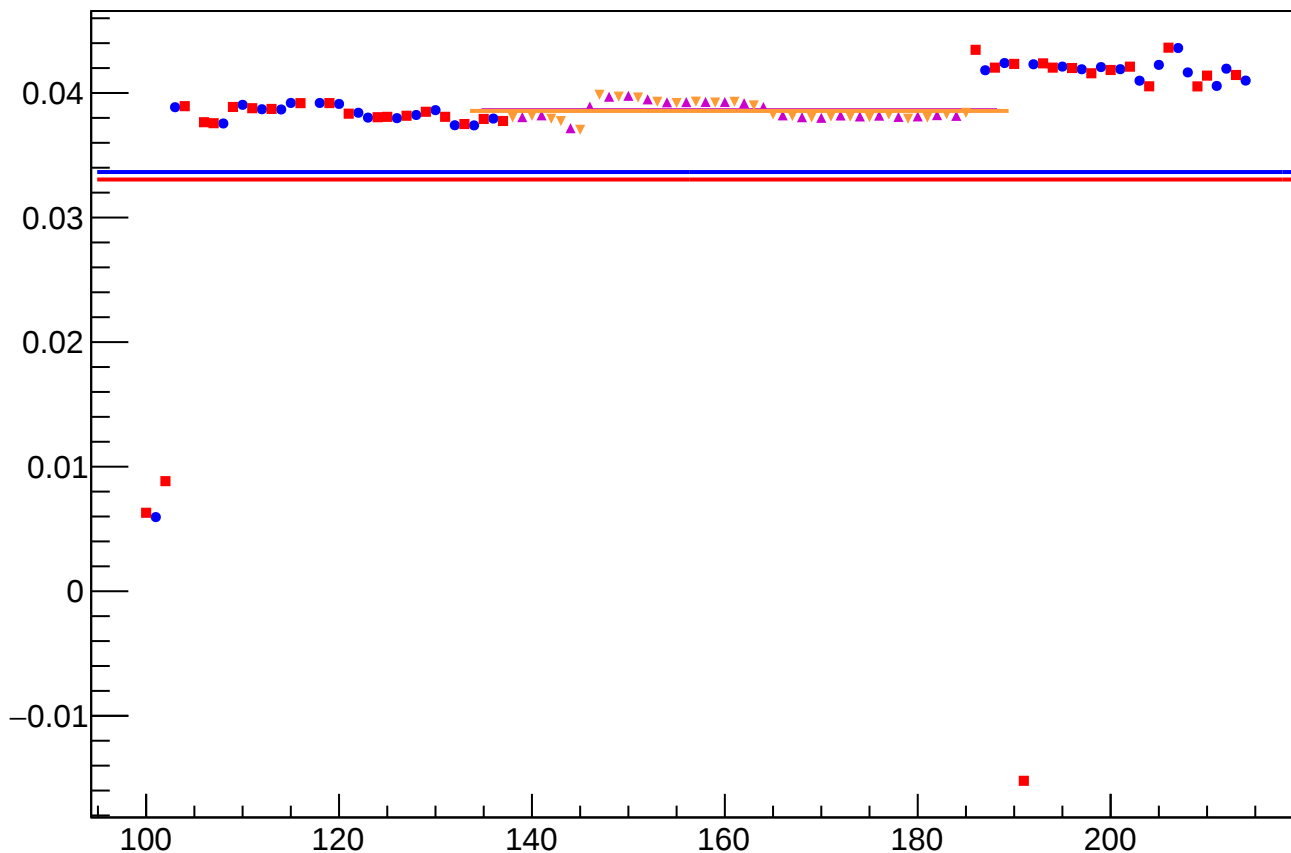
yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 7592625.2/30
 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 : 22199679.6/64
 In: 0.000+/-0.000 χ^2/NDF : 13282163.1/53
 Out: 0.000+/-0.000 χ^2/NDF : 31408746.7/58
 All: 0.000+/-0.000 χ^2/NDF : 51521102.6/112

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.000 χ^2 /NDF: 119469016041.8/30

Left Out: 0.039 $\pm$ 0.000 χ^2 /NDF: 539468437.3/24

Right Out: 0.033 $\pm$ 0.000 χ^2 /NDF: 184087655087.6/33

Left In: 0.039 $\pm$ 0.000 χ^2 /NDF: 465745982.6/22

Left: 0.039 $\pm$ 0.000 χ^2 /NDF: 1007039623.8/47

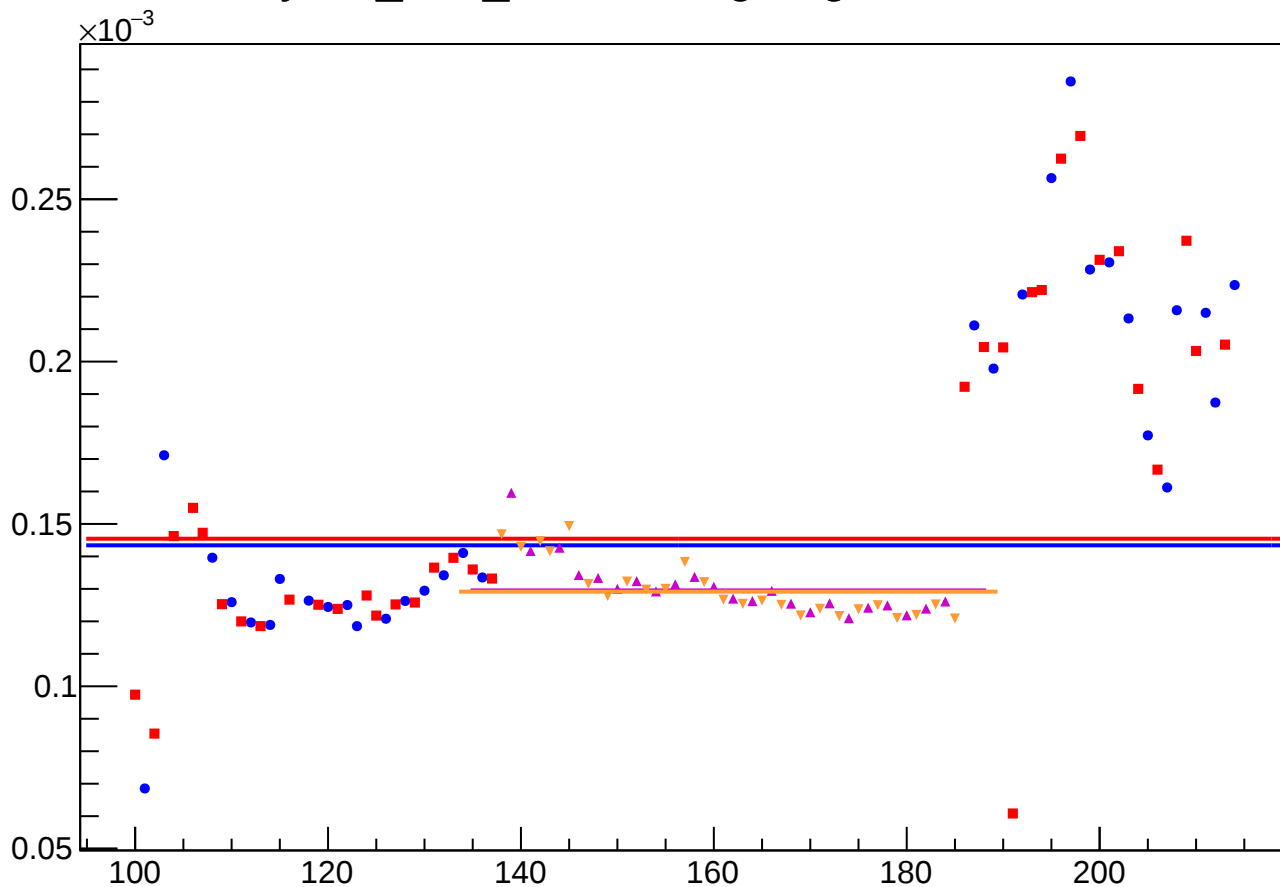
Right: 0.033 $\pm$ 0.000 χ^2 /NDF: 303681348313.5/64

In: 0.037 $\pm$ 0.000 χ^2 /NDF: 130063618568.6/53

Out: 0.036 $\pm$ 0.000 χ^2 /NDF: 197439635379.8/58

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 327541210877.6

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3808038.5/30

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

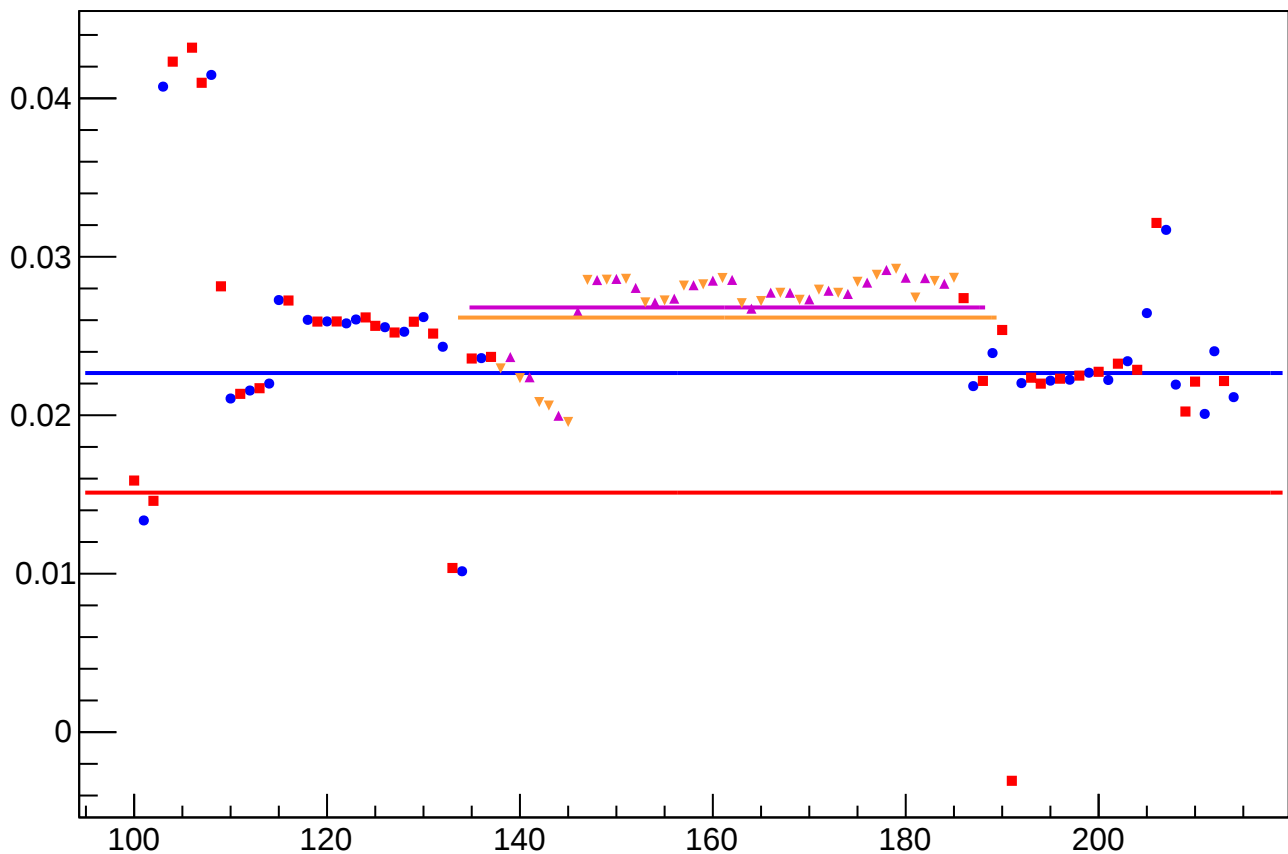
Right: 0.000+/-0.000 χ^2/NDF : 7318811.5/64

In: 0.000+/-0.000 χ^2/NDF :4081214.2/53

Out: 0.000+/-0.000 χ^2/NDF :3862766.1/58

All: 0.000+/-0.000 χ^2/NDF : 7944249.0/112

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4427843970.0/30

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

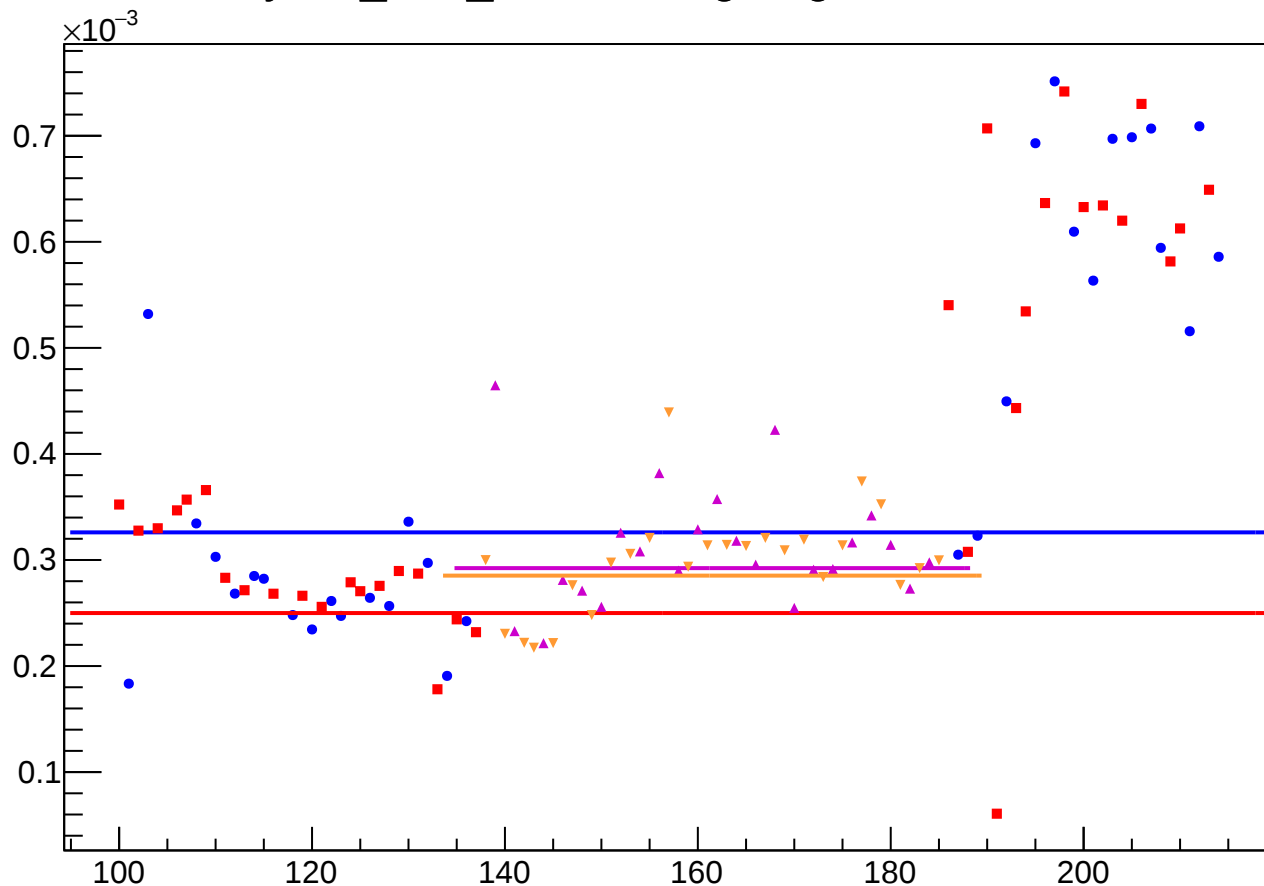
Right: 0.018+/-0.000 χ^2/NDF : 40175547299.6/64

In: 0.025+/-0.000 χ^2/NDF : 6998167739.2/53

Out: 0.021+/-0.000 χ^2/NDF : 45078266873.9/58

All: 0.023+/-0.000 χ^2/NDF : 54854612737.9/100

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5641843.7/30

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

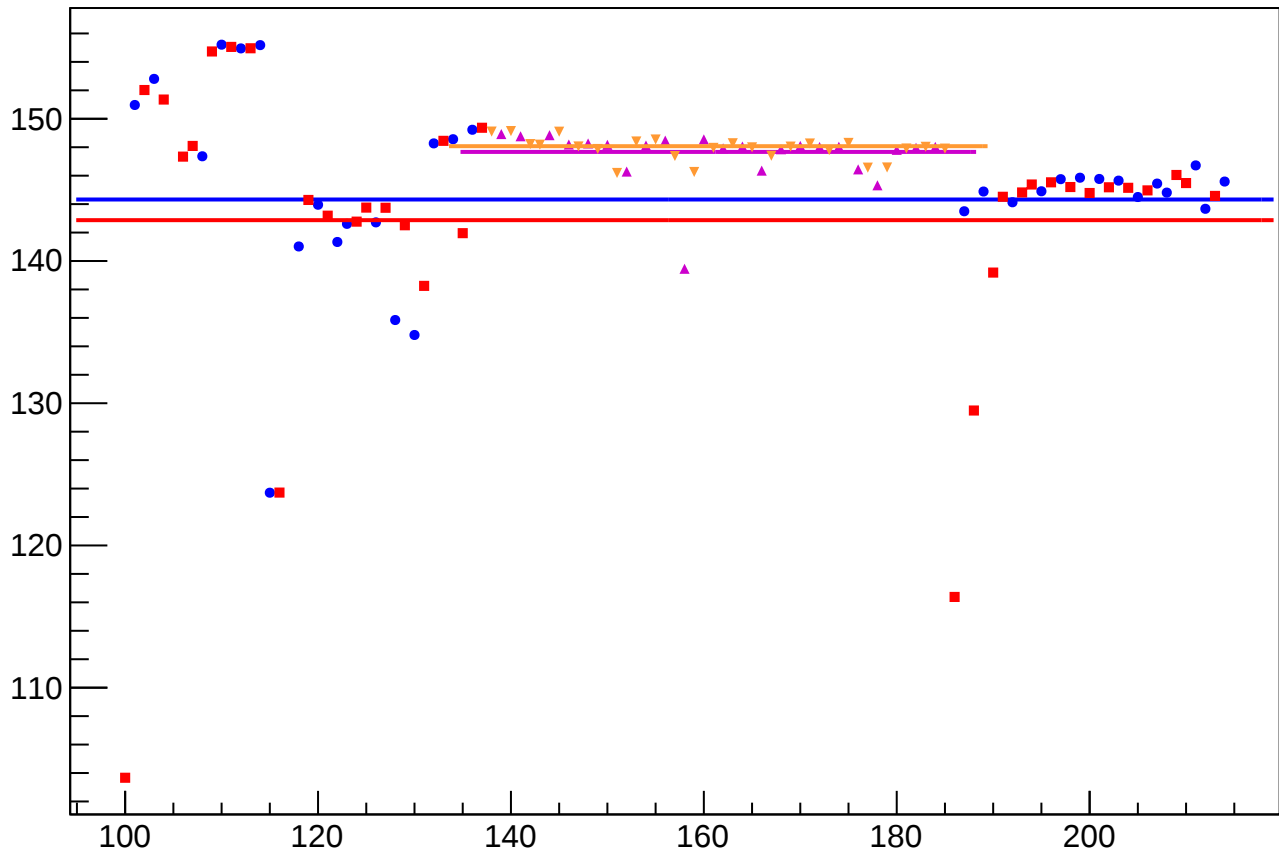
Right: 0.000+/-0.000 χ^2/NDF : 16809565.9/64

In: 0.000+/-0.000 χ^2/NDF :6704918.7/53

Out: 0.000+/-0.000 χ^2/NDF :11401235.4/58

All: 0.000+/-0.000 χ^2/NDF : 18549555.1/112

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.325 +/- 0.000 χ^2/NDF : 3506818900.9/30

Left Out: 148.073 +/- 0.000 χ^2/NDF : 65614067.4/24

Right Out: 142.872 +/- 0.000 χ^2/NDF : 7450594169.7/33

Left In: 147.670 +/- 0.000 χ^2/NDF : 345222604.4/22

Left: 147.879 +/- 0.000 χ^2/NDF : 418091602.5/47

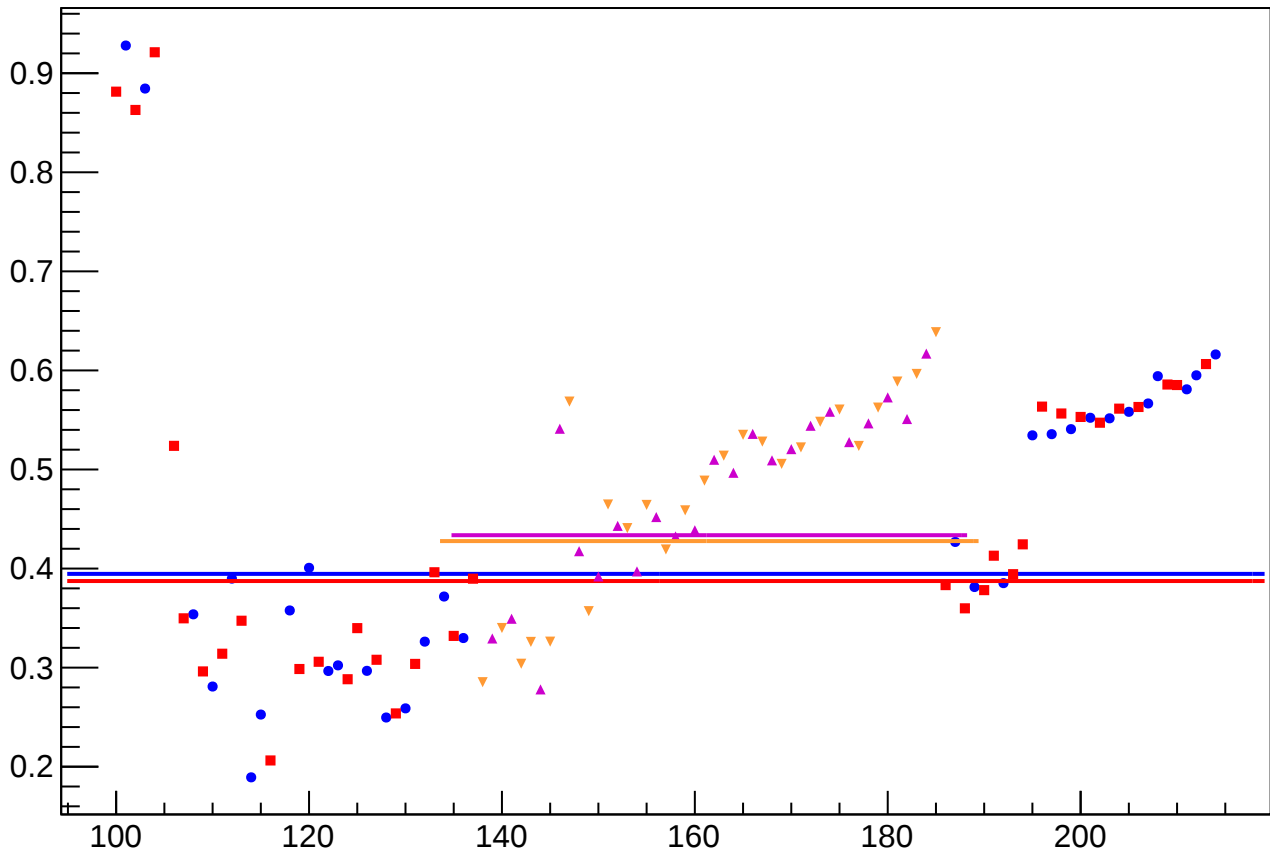
Right: 143.566 +/- 0.000 χ^2/NDF : 11057241074.3/64

In: 145.959 +/- 0.000 χ^2/NDF : 4347204866.6/53

Out: 145.389 +/- 0.000 χ^2/NDF : 8811617771.1/58

All: 145.662 +/- 0.000 χ^2/NDF : 13188702180.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.395 $\pm$ 0.000 χ^2 /NDF: 3432931.1/30

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

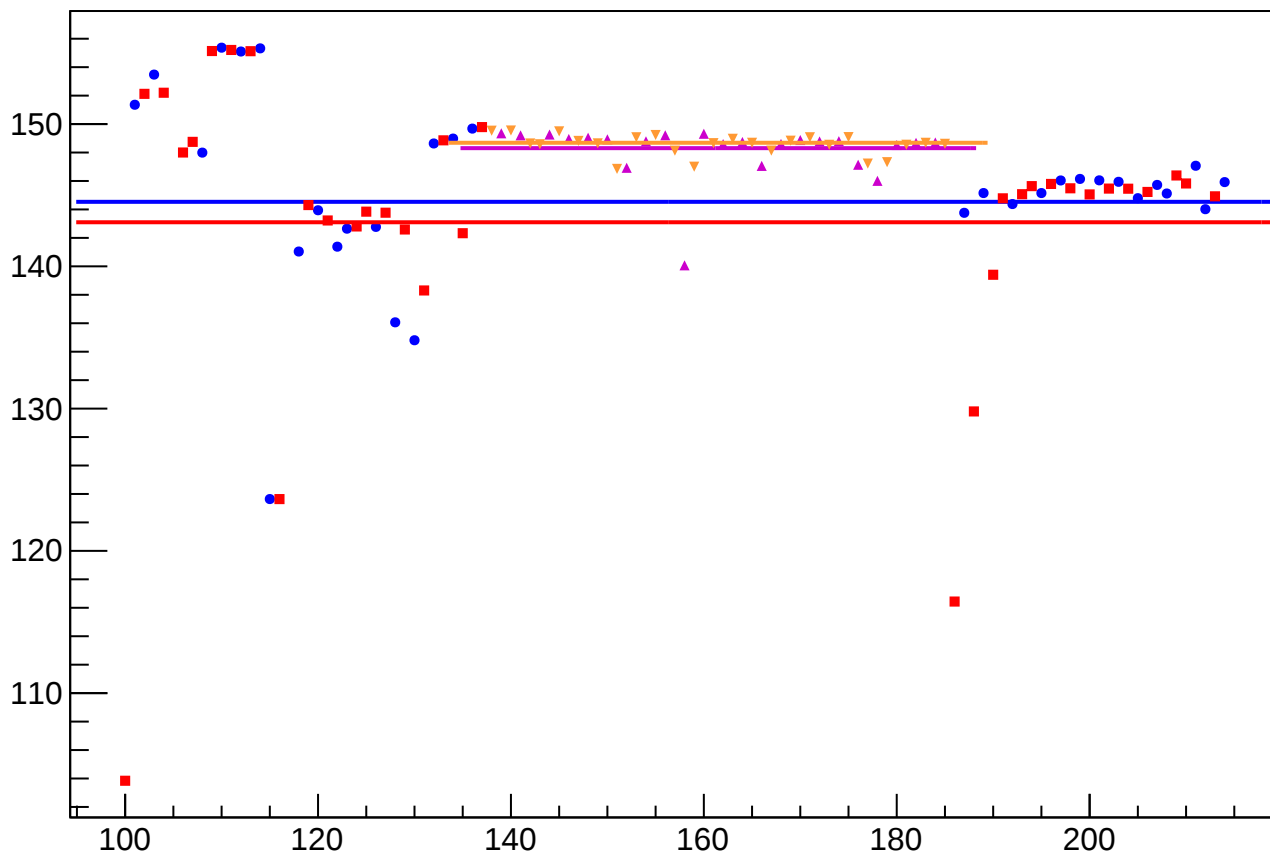
Right: 0.391 $\pm$ 0.000 χ^2 /NDF: 6521636.2/64

In: 0.414 $\pm$ 0.000 χ^2 /NDF:5064096.6/53

Out: 0.407 $\pm$ 0.000 χ^2 /NDF:5136304.0/58

All: 0.410 $\pm$ 0.000 χ^2 /NDF: 10208852.1/112

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.535+/-0.000 χ^2/NDF : 3557854258.9/30

Left Out: 148.686+/-0.000 χ^2/NDF : 52218185.1/24

Right Out: 143.099+/-0.000 χ^2/NDF : 7402242819.5/33

Left In: 148.307+/-0.000 χ^2/NDF : 333585558.2/22

Left: 148.504+/-0.000 χ^2/NDF : 392094013.2/47

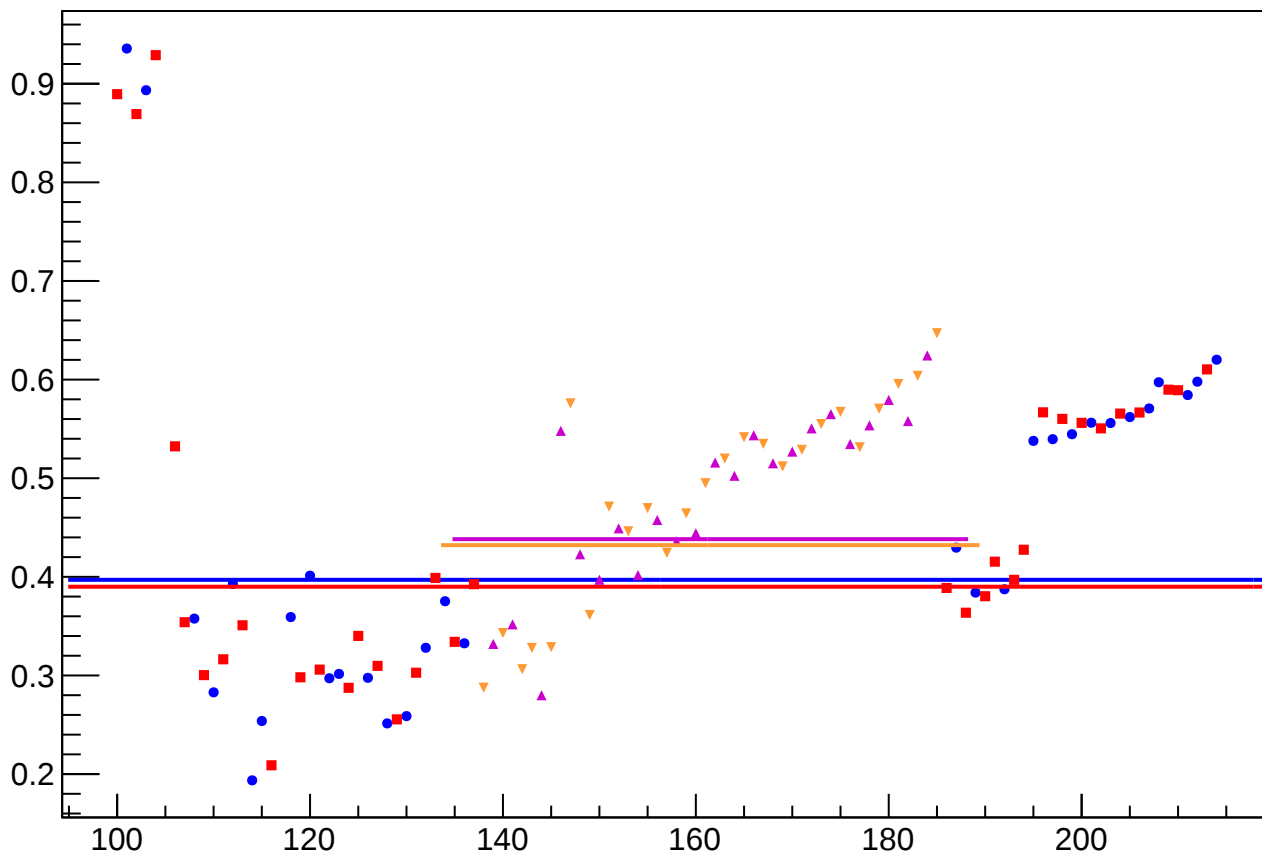
Right: 143.785+/-0.000 χ^2/NDF : 11056422844.0/64

In: 146.368+/-0.000 χ^2/NDF : 4510382966.9/53

Out: 145.792+/-0.000 χ^2/NDF : 8923550743.9/58

All: 146.069+/-0.000 χ^2/NDF : 13464031322.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.397 $\pm$ 0.000 χ^2 /NDF: 3440479.0/30

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

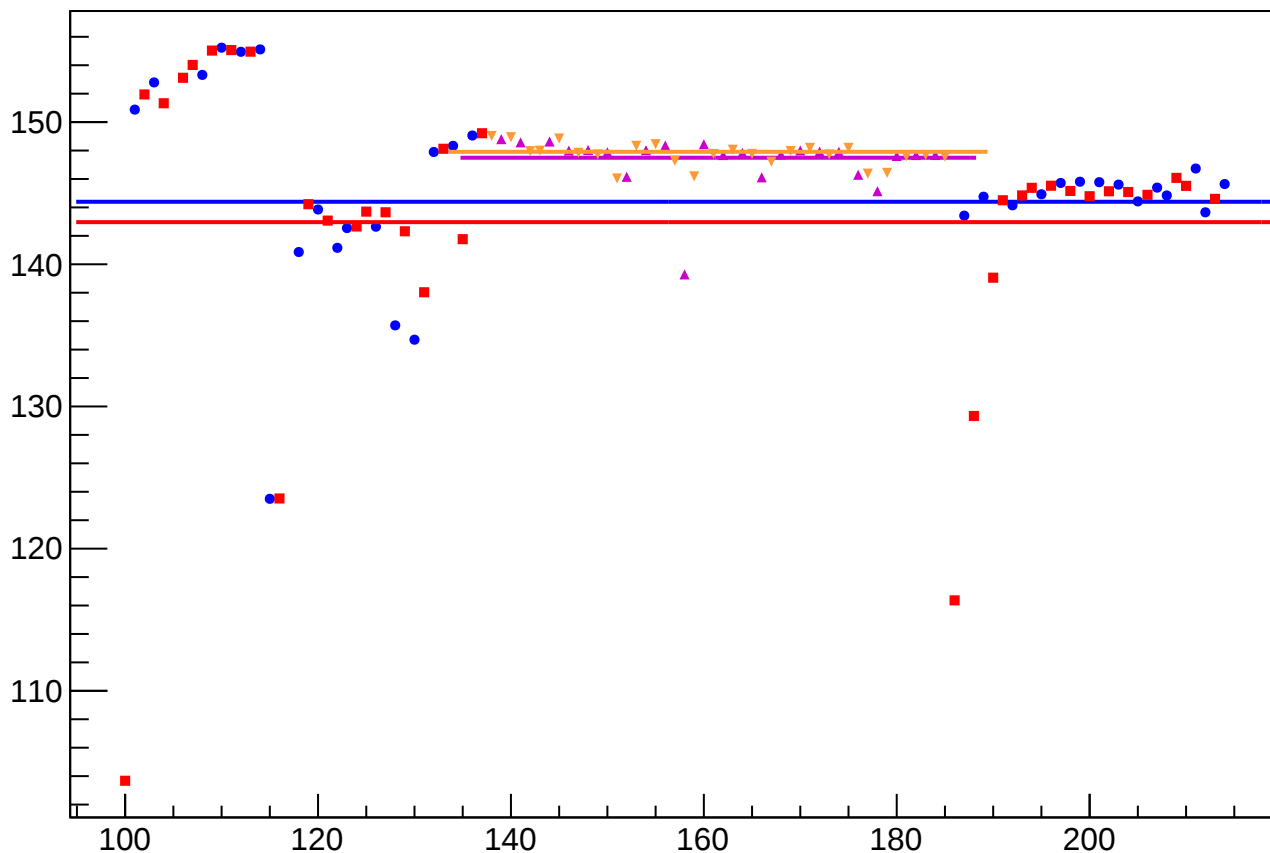
Right: 0.393 $\pm$ 0.000 χ^2 /NDF: 6532607.0/64

In: 0.417 $\pm$ 0.000 χ^2 /NDF:5110223.8/53

Out: 0.410 $\pm$ 0.000 χ^2 /NDF:5183712.9/58

All: 0.414 $\pm$ 0.000 χ^2 /NDF: 10302112.3/112

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.397 ± 0.000 $\chi^2/\text{NDF}: 3712327157.4/30$

Left Out: 147.911 ± 0.000 $\chi^2/\text{NDF}: 64412407.9/24$

Right Out: 142.964 ± 0.000 $\chi^2/\text{NDF}: 7824921810.3/33$

Left In: 147.493 ± 0.000 $\chi^2/\text{NDF}: 343978473.2/22$

Left: 147.709 ± 0.000 $\chi^2/\text{NDF}: 416149781.4/47$

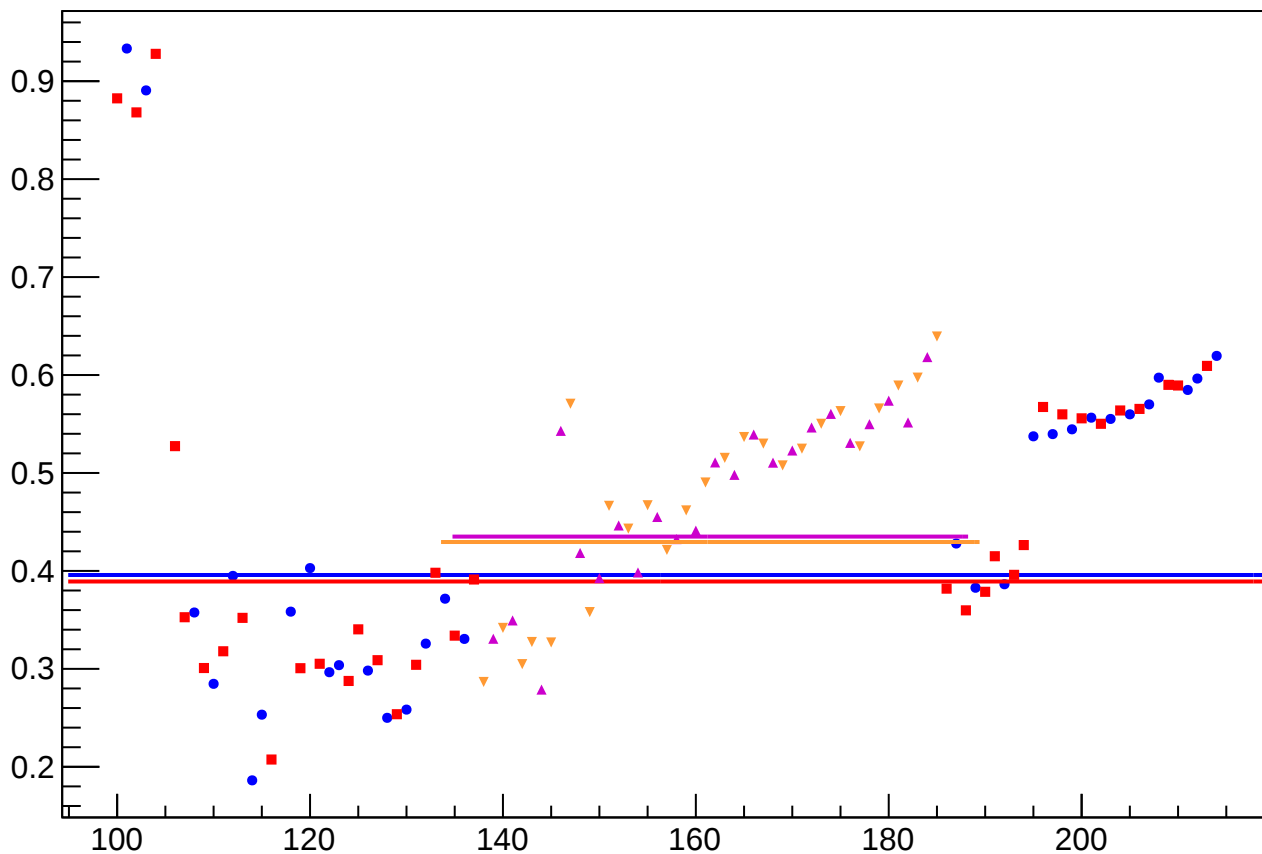
Right: 143.650 ± 0.000 $\chi^2/\text{NDF}: 11633525102.6/64$

In: 145.910 ± 0.000 $\chi^2/\text{NDF}: 4477308904.1/53$

Out: 145.360 ± 0.000 $\chi^2/\text{NDF}: 9050702214.5/58$

All: 145.624 ± 0.000 $\chi^2/\text{NDF}: 13555683485.$

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.396 $\pm$ 0.000 χ^2 /NDF: 3470536.6/30

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.389 $\pm$ 0.000 χ^2 /NDF: 3090686.0/33

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

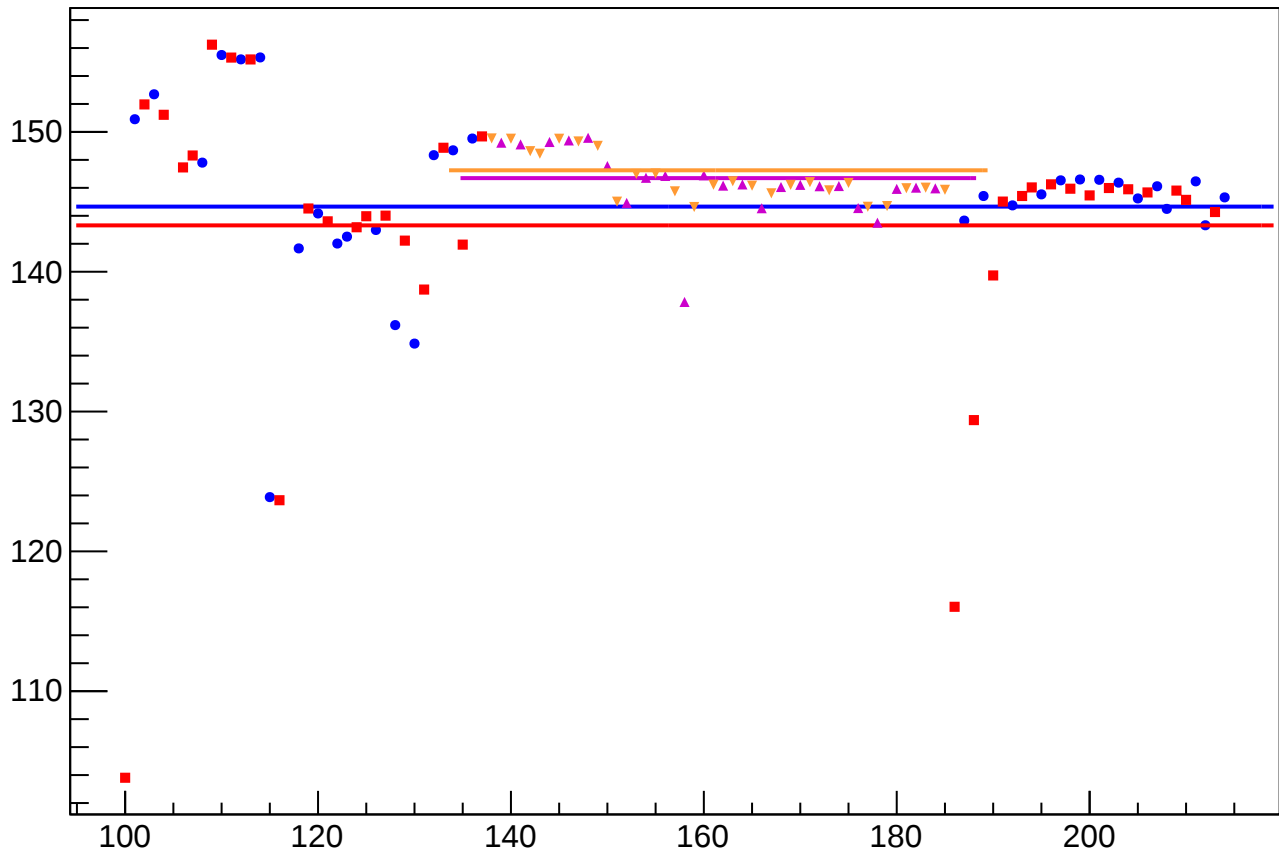
Right: 0.392 $\pm$ 0.000 χ^2 /NDF: 6565357.1/64

In: 0.415 $\pm$ 0.000 χ^2 /NDF:5108305.4/53

Out: 0.409 $\pm$ 0.000 χ^2 /NDF:5140674.5/58

All: 0.412 $\pm$ 0.000 χ^2 /NDF: 10256177.6/112

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.659 $\pm$ 0.000 χ^2 /NDF: 3233211578.9/30

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 143.315 $\pm$ 0.000 χ^2 /NDF: 7143560390.2/33

Left In: 146.695 $\pm$ 0.000 χ^2 /NDF: 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2 /NDF: 833217060.4/47

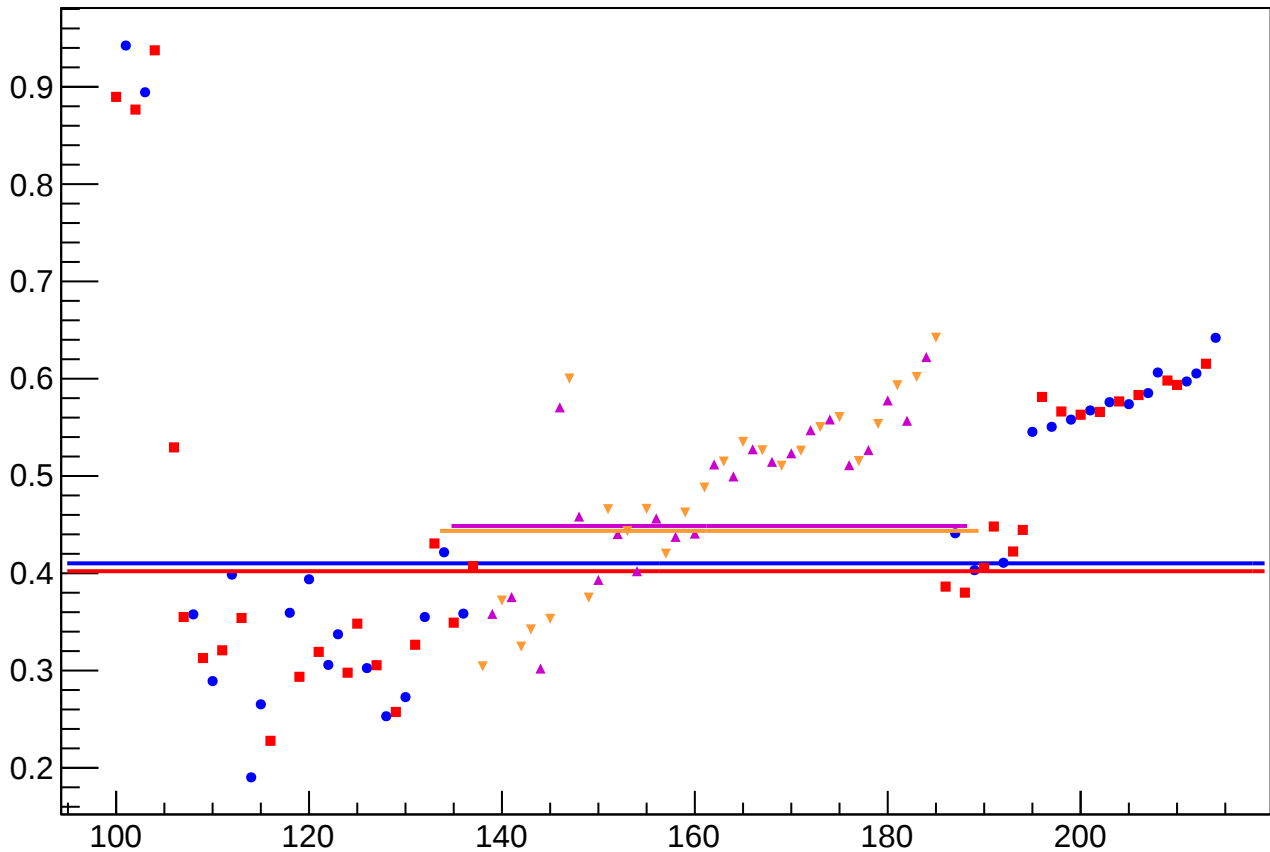
Right: 143.956 $\pm$ 0.000 χ^2 /NDF: 10455796167.2/64

In: 145.664 $\pm$ 0.000 χ^2 /NDF: 3962560952.9/53

Out: 145.233 $\pm$ 0.000 χ^2 /NDF: 8099286967.3/58

All: 145.440 $\pm$ 0.000 χ^2 /NDF: 12077777648.

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.410 $\pm$ 0.000 χ^2/NDF : 3363782.6/30

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

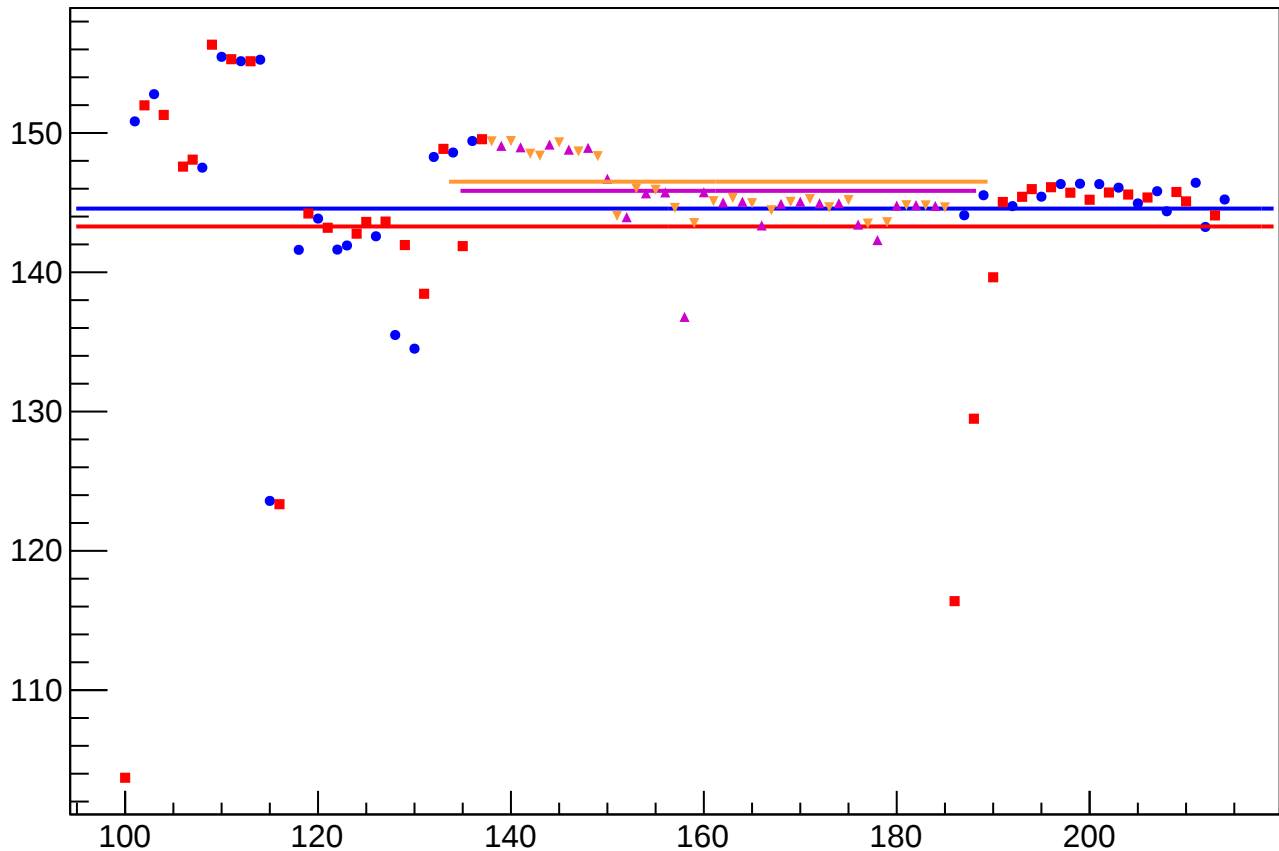
Right: 0.406 $\pm$ 0.000 χ^2/NDF : 6356059.8/64

In: 0.429 $\pm$ 0.000 χ^2/NDF :4618490.3/53

Out: 0.422 $\pm$ 0.000 χ^2/NDF :4623639.8/58

All: 0.426 $\pm$ 0.000 χ^2/NDF : 9250228.5/112

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.573 $\pm$ 0.000 χ^2 /NDF: 3343099383.5/30

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

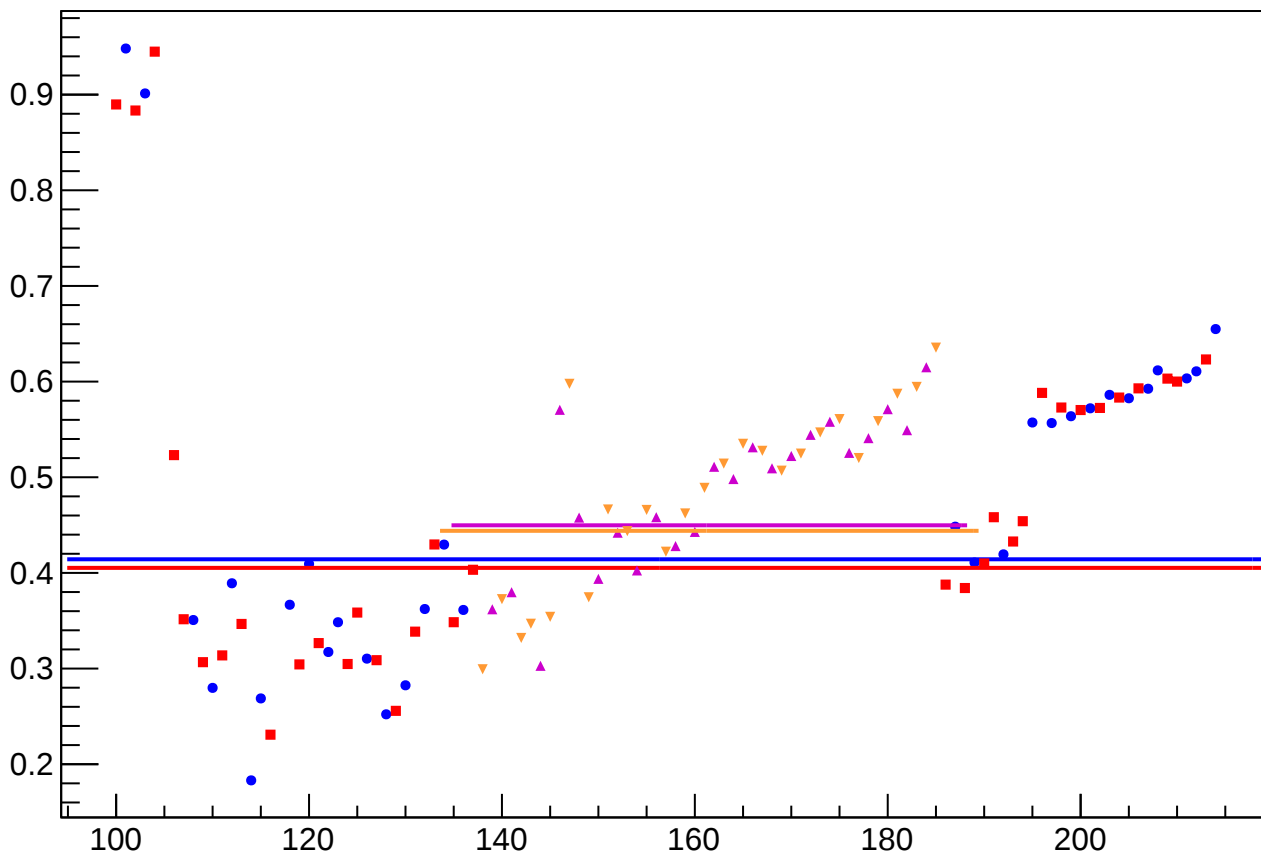
Right: 143.900 $\pm$ 0.000 χ^2 /NDF: 10509813387.5/64

In: 145.208 $\pm$ 0.000 χ^2 /NDF: 4103922005.1/53

Out: 144.868 $\pm$ 0.000 χ^2 /NDF: 7955251175.3/58

All: 145.031 $\pm$ 0.000 χ^2 /NDF: 12068970211.0/107

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.414+/-0.000 χ^2/NDF : 3417094.1/30

Left Out: 0.444+/-0.000 χ^2/NDF :1463293.5/24

Right Out: 0.405+/-0.000 χ^2/NDF : 3022536.2/33

Left In: 0.450+/-0.000 χ^2/NDF :1105405.0/22

Left: 0.447+/-0.000 χ^2/NDF : 2571486.5/47

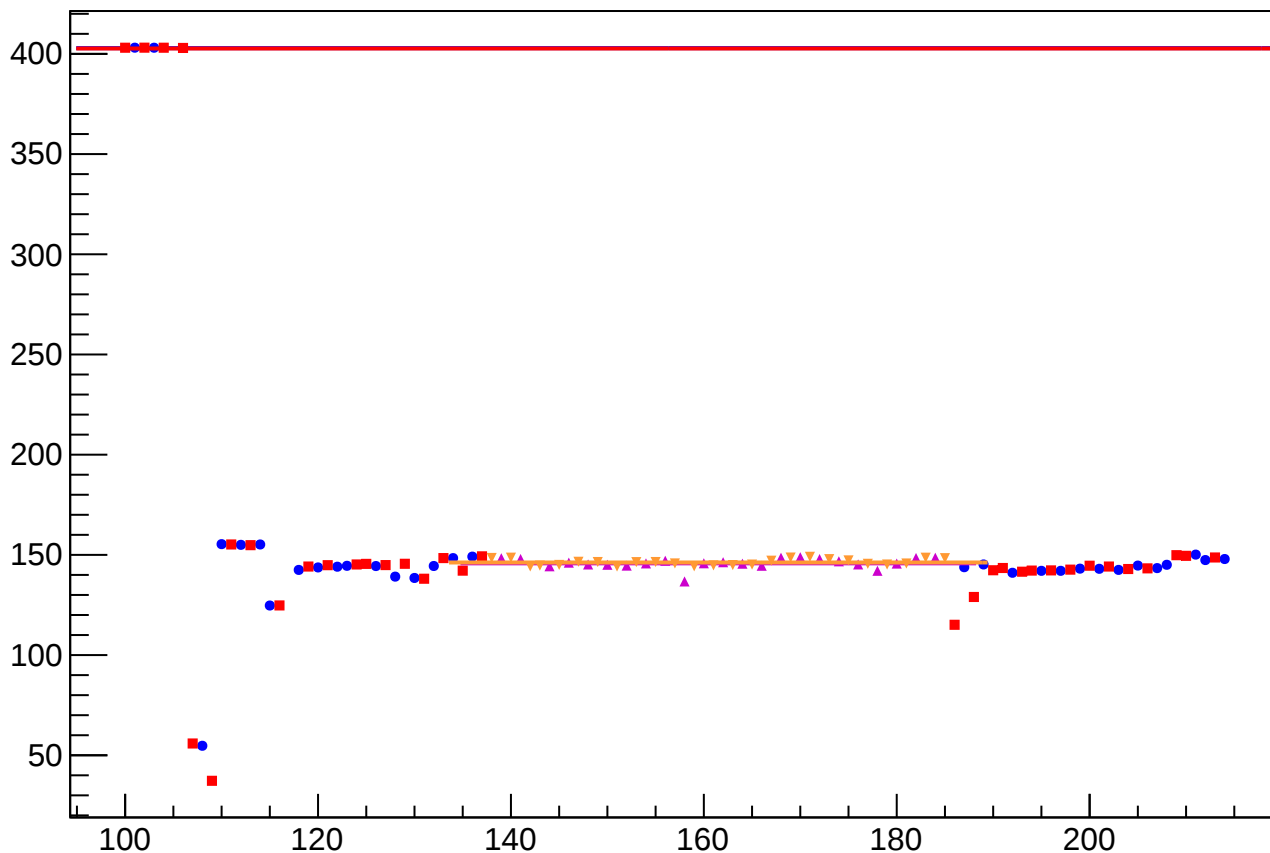
Right: 0.410+/-0.000 χ^2/NDF : 6446540.2/64

In: 0.432+/-0.000 χ^2/NDF :4625337.9/53

Out: 0.424+/-0.000 χ^2/NDF :4618587.7/58

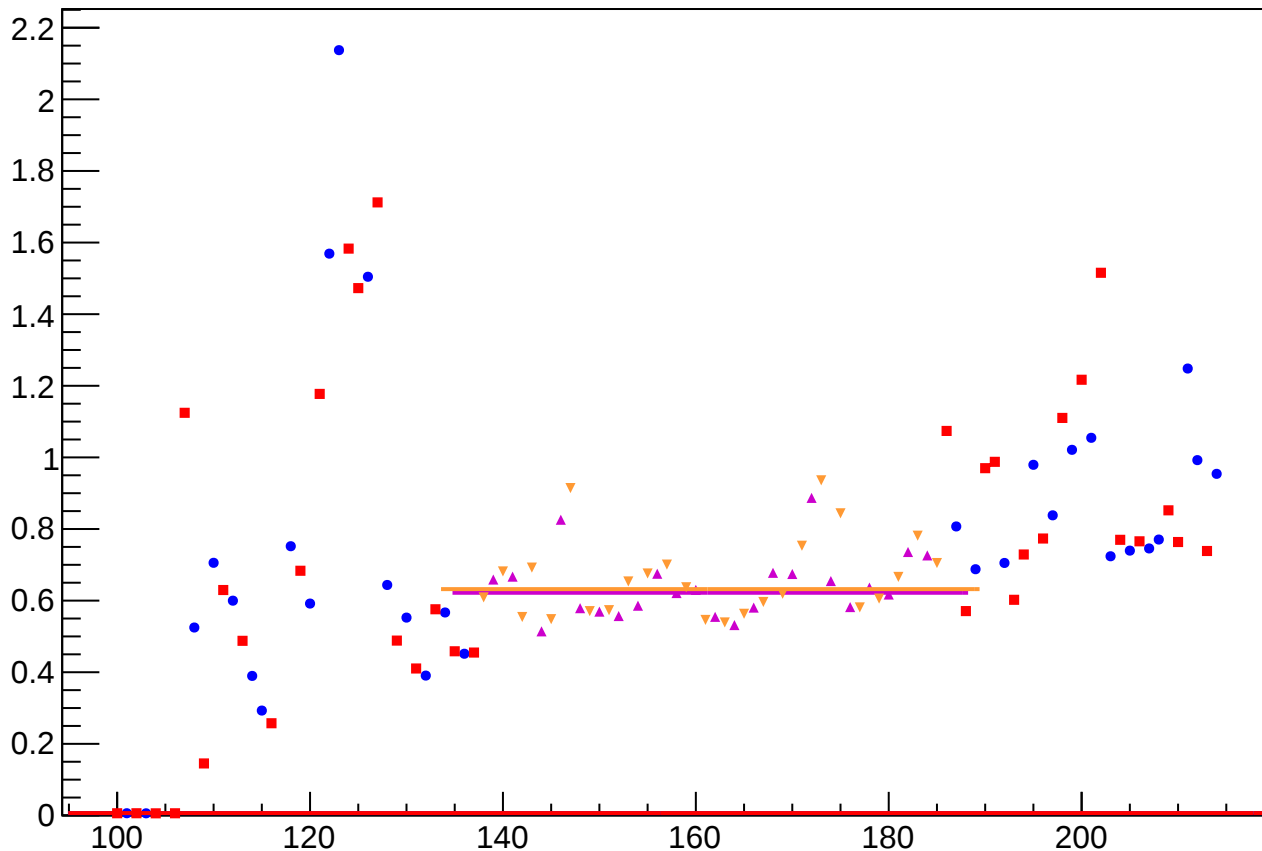
All: 0.428+/-0.000 χ^2/NDF : 9253856.9/112

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.864 $\pm$ 0.000 χ^2 /NDF: 1848212932286.1/30
 Left Out: 146.205 $\pm$ 0.000 χ^2 /NDF: 86658381.3/24
 Right Out: 402.694 $\pm$ 0.000 χ^2 /NDF: 4064213651422.7/33
 Left In: 145.773 $\pm$ 0.000 χ^2 /NDF: 207332354.9/22
 Left: 145.990 $\pm$ 0.000 χ^2 /NDF: 297342055.1/47
 Right: 402.774 $\pm$ 0.000 χ^2 /NDF: 5912902897998.8/30
 In: 402.571 $\pm$ 0.000 χ^2 /NDF: 4196540011873.0/53
 Out: 402.433 $\pm$ 0.000 χ^2 /NDF: 6431671059478.9/53
 All: 402.498 $\pm$ 0.000 χ^2 /NDF: 106285275195.1/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 24807704.4/30

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

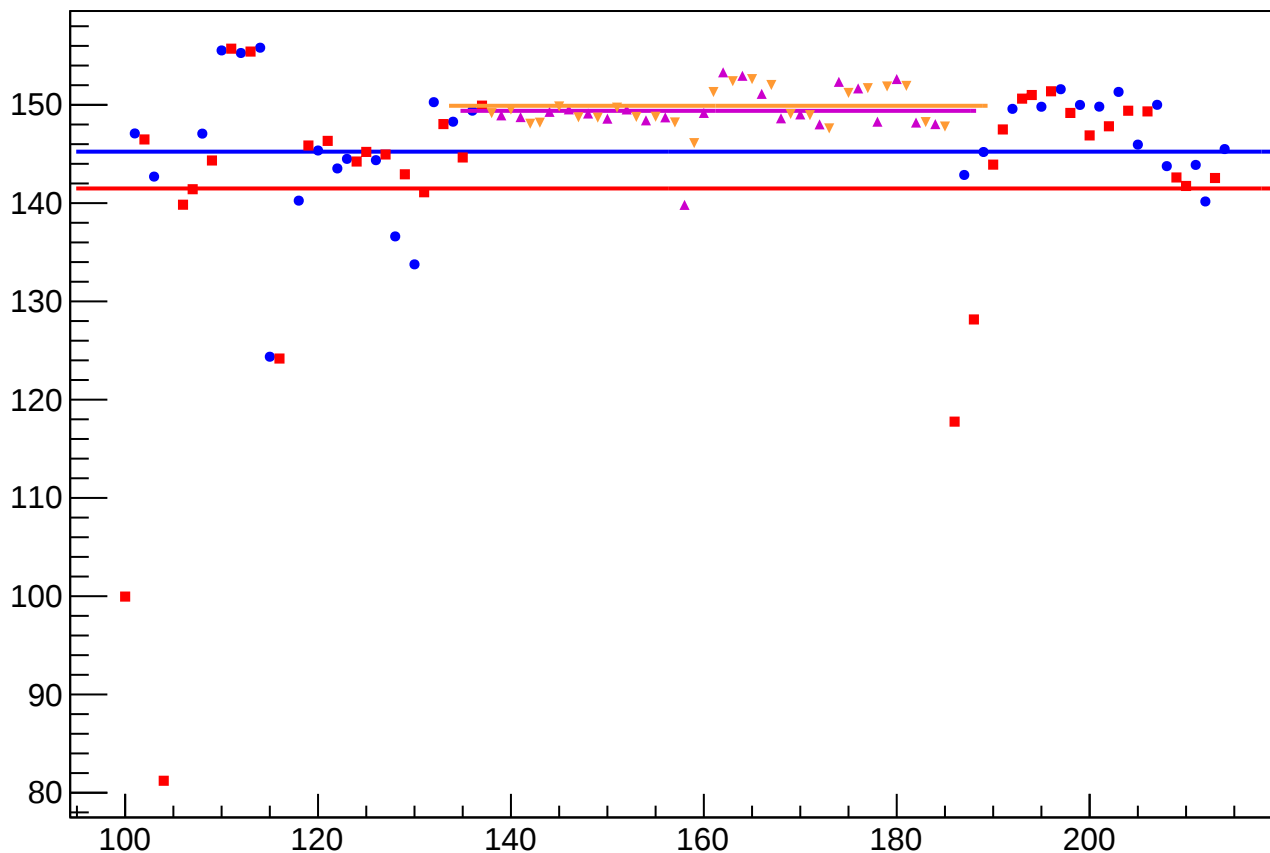
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 51073996.9/64

In: 0.007 $\pm$ 0.000 χ^2 /NDF:52112362.9/53

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:55037485.7/58

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 107150004.3/112

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.237 $\pm$ 0.000 χ^2 /NDF: 1360301716.2/30

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

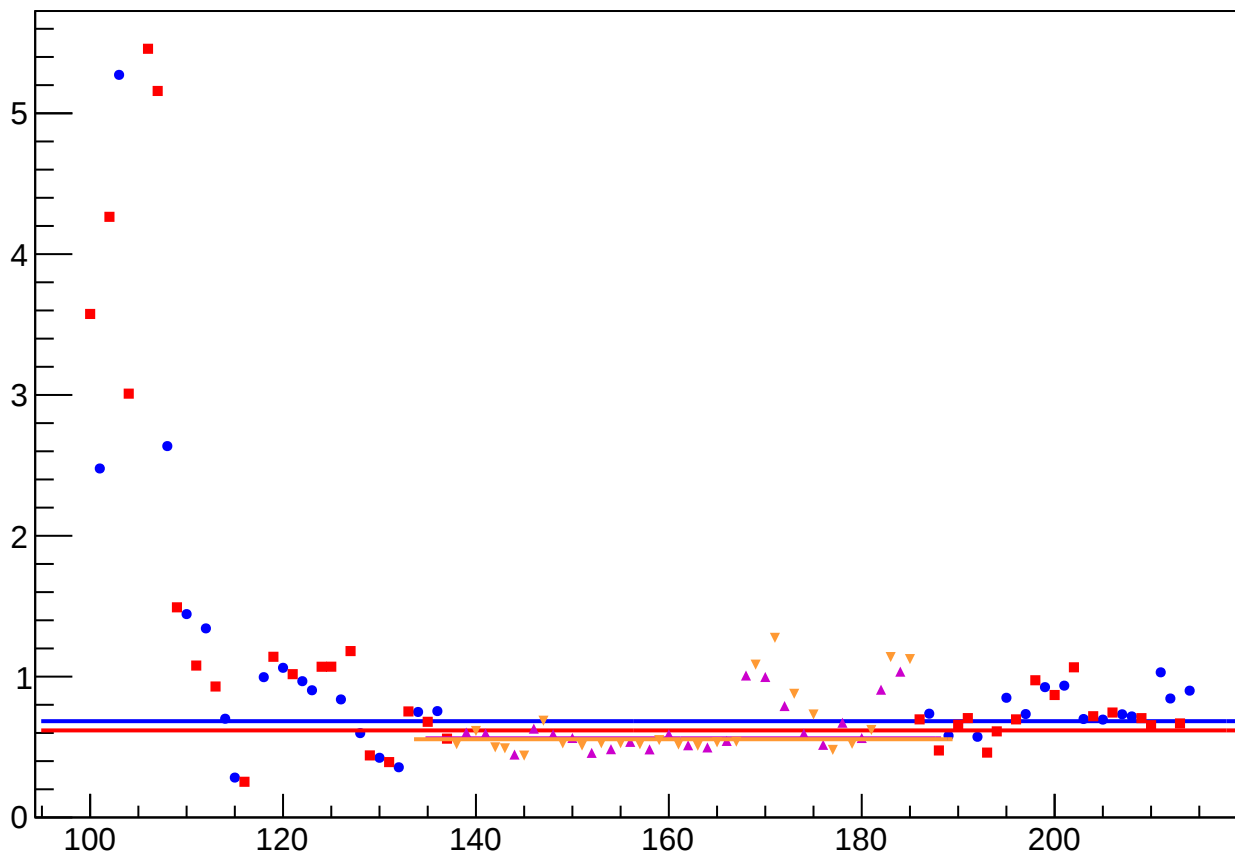
Right: 143.156 $\pm$ 0.000 χ^2 /NDF: 4804465454.5/64

In: 147.971 $\pm$ 0.000 χ^2 /NDF: 2078009358.0/53

Out: 146.729 $\pm$ 0.000 χ^2 /NDF: 4776291033.6/58

All: 147.312 $\pm$ 0.000 χ^2 /NDF: 6913556802.8

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.684+/-0.000 χ^2/NDF : 4259601.8/30

Left Out: 0.555+/-0.000 χ^2/NDF : 1773380.1/24

Right Out: 0.618+/-0.000 χ^2/NDF : 5583135.3/33

Left In: 0.562+/-0.000 χ^2/NDF : 1311075.2/22

Left: 0.559+/-0.000 χ^2/NDF : 3086646.6/47

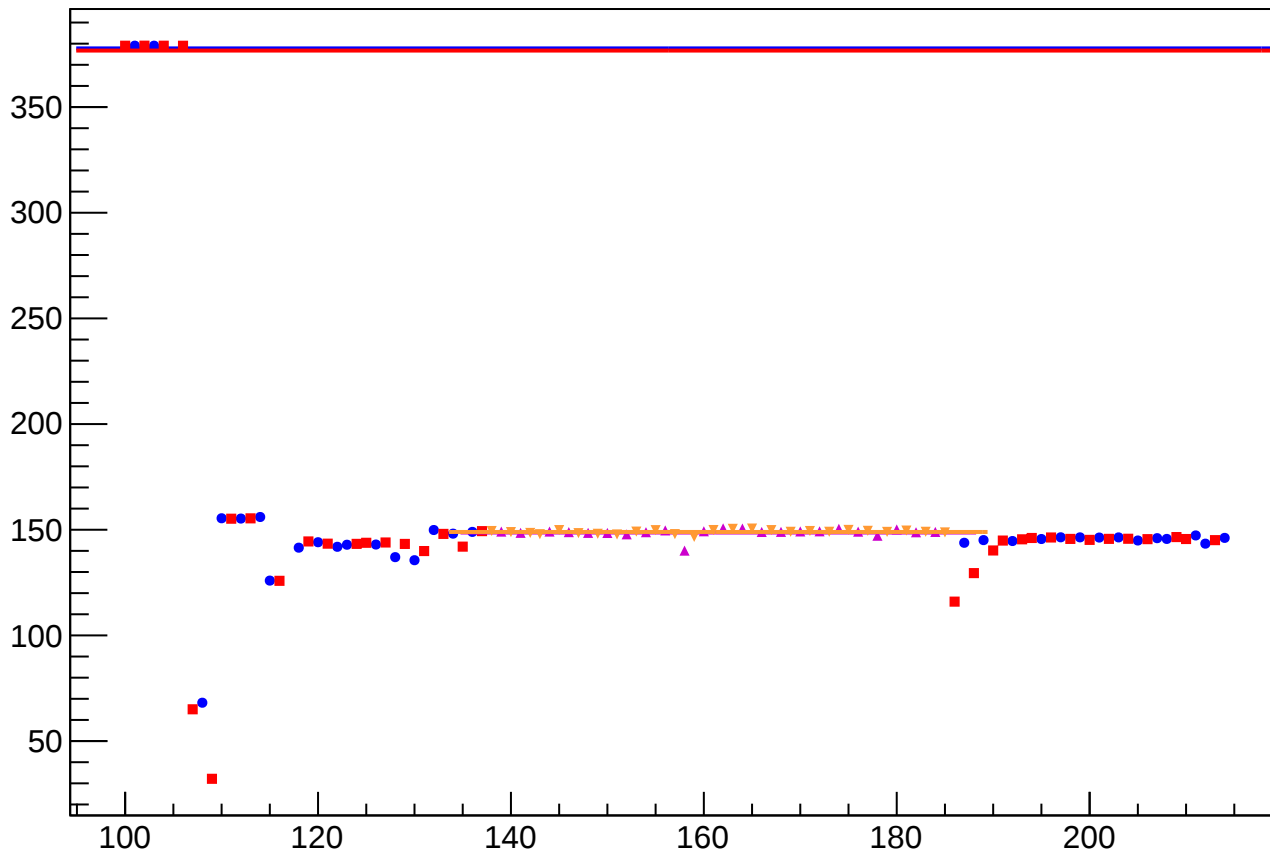
Right: 0.647+/-0.000 χ^2/NDF : 9960767.6/64

In: 0.604+/-0.000 χ^2/NDF : 6051455.4/53

Out: 0.579+/-0.000 χ^2/NDF : 7507577.4/58

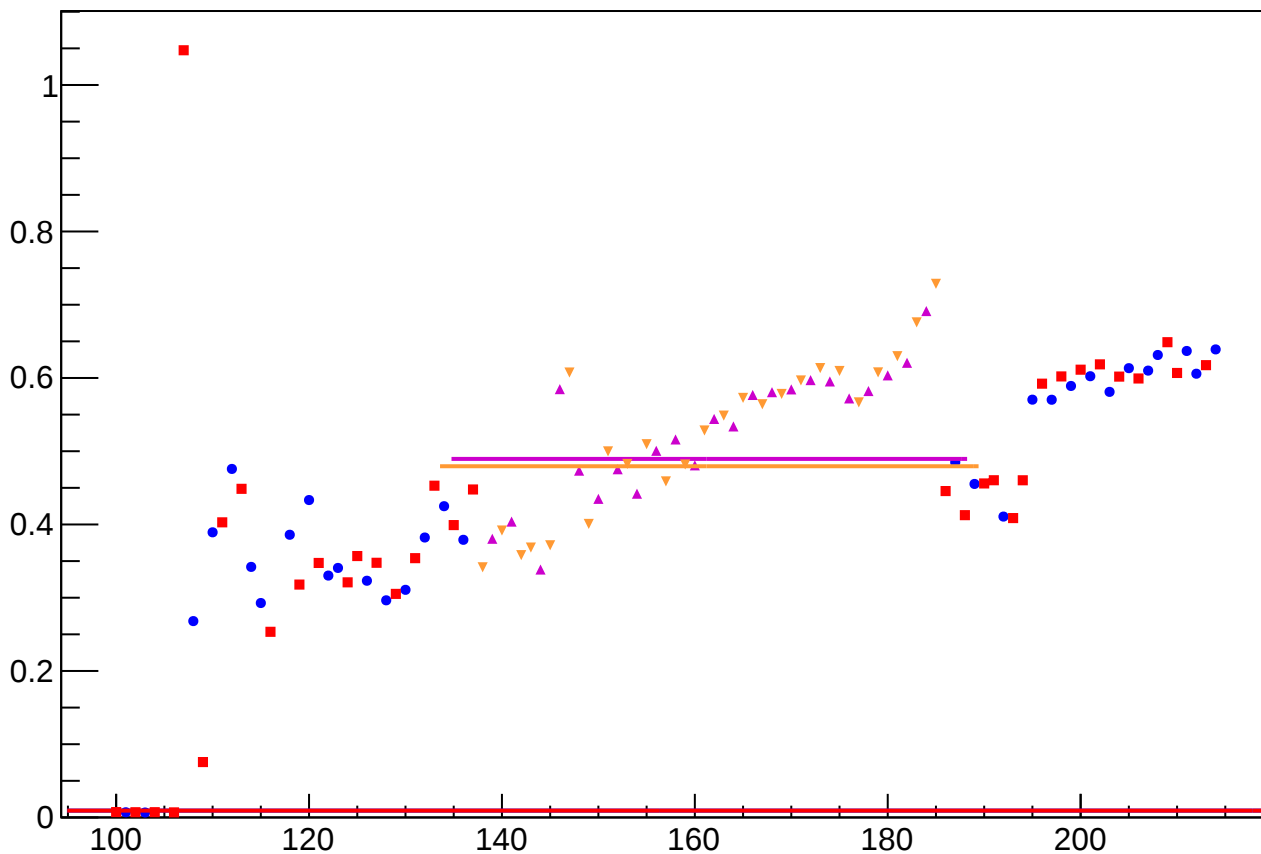
All: 0.591+/-0.000 χ^2/NDF : 13605305.6/112

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.760 $\pm$ 0.000	χ^2 /NDF: 412666900712.4/30	Left: 148.820 $\pm$ 0.000	χ^2 /NDF: 320306424.2/47
Left Out: 148.946 $\pm$ 0.000	χ^2 /NDF: 63974844.7/24	Right: 377.216 $\pm$ 0.000	χ^2 /NDF: 14382665722742.0
Right Out: 376.740 $\pm$ 0.000	χ^2 /NDF: 10248591637419.9/33	In: 376.583 $\pm$ 0.000	χ^2 /NDF: 7724427451211.1/53
Left In: 148.683 $\pm$ 0.000	χ^2 /NDF: 253848207.3/22	Out: 375.624 $\pm$ 0.000	χ^2 /NDF: 14114109767607.0
		All: 376.073 $\pm$ 0.000	χ^2 /NDF: 218451098353.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 28445005.5/30

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

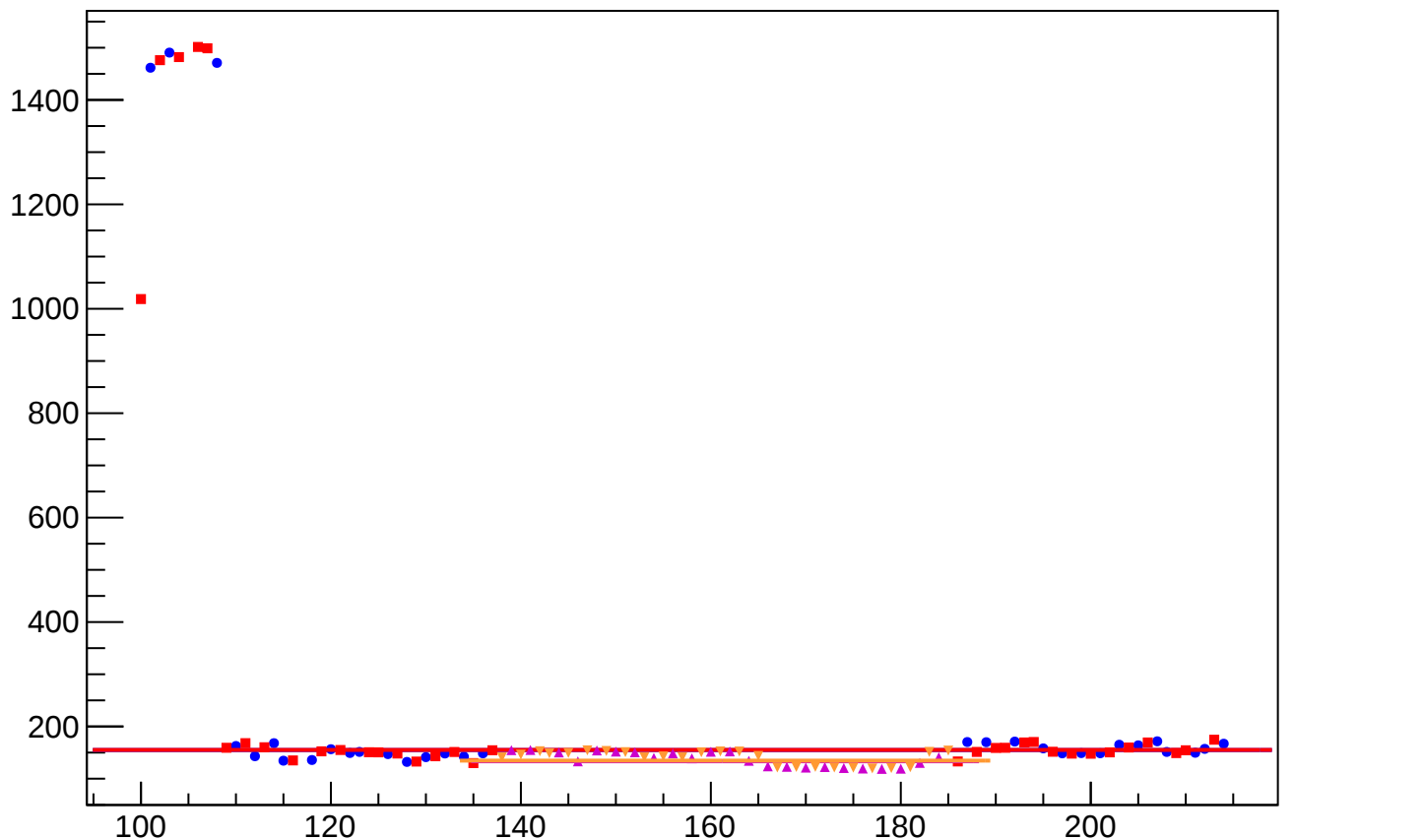
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 57118160.1/64

In: 0.012 $\pm$ 0.000 χ^2 /NDF:61145676.4/53

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:63124618.4/58

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 124270819.5/112

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.854+/-0.000 χ^2/NDF : 26033722719.9/30

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

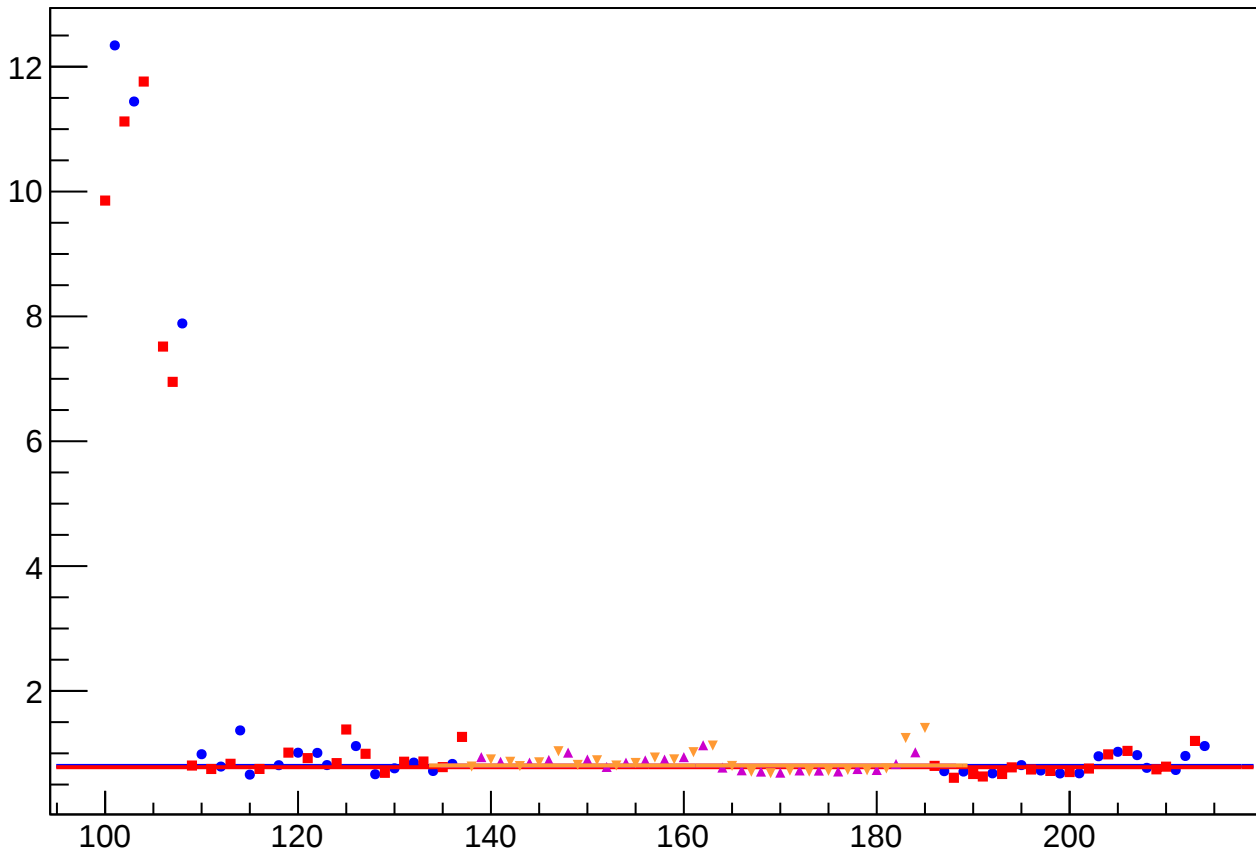
Right: 154.971+/-0.000 χ^2/NDF : 61233092500.1/64

In: 143.121+/-0.000 χ^2/NDF : 35237780604.2/53

Out: 144.184+/-0.000 χ^2/NDF : 44256552255.6/58

All: 143.668+/-0.000 χ^2/NDF : 79518830104.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.799 $\pm$ 0.000 χ^2 /NDF: 3159483.5/30

Left Out: 0.807 $\pm$ 0.000 χ^2 /NDF:704181.3/24

Right Out: 0.778 $\pm$ 0.000 χ^2 /NDF: 3447635.1/33

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:479689.4/22

Left: 0.806 $\pm$ 0.000 χ^2 /NDF: 1183976.9/47

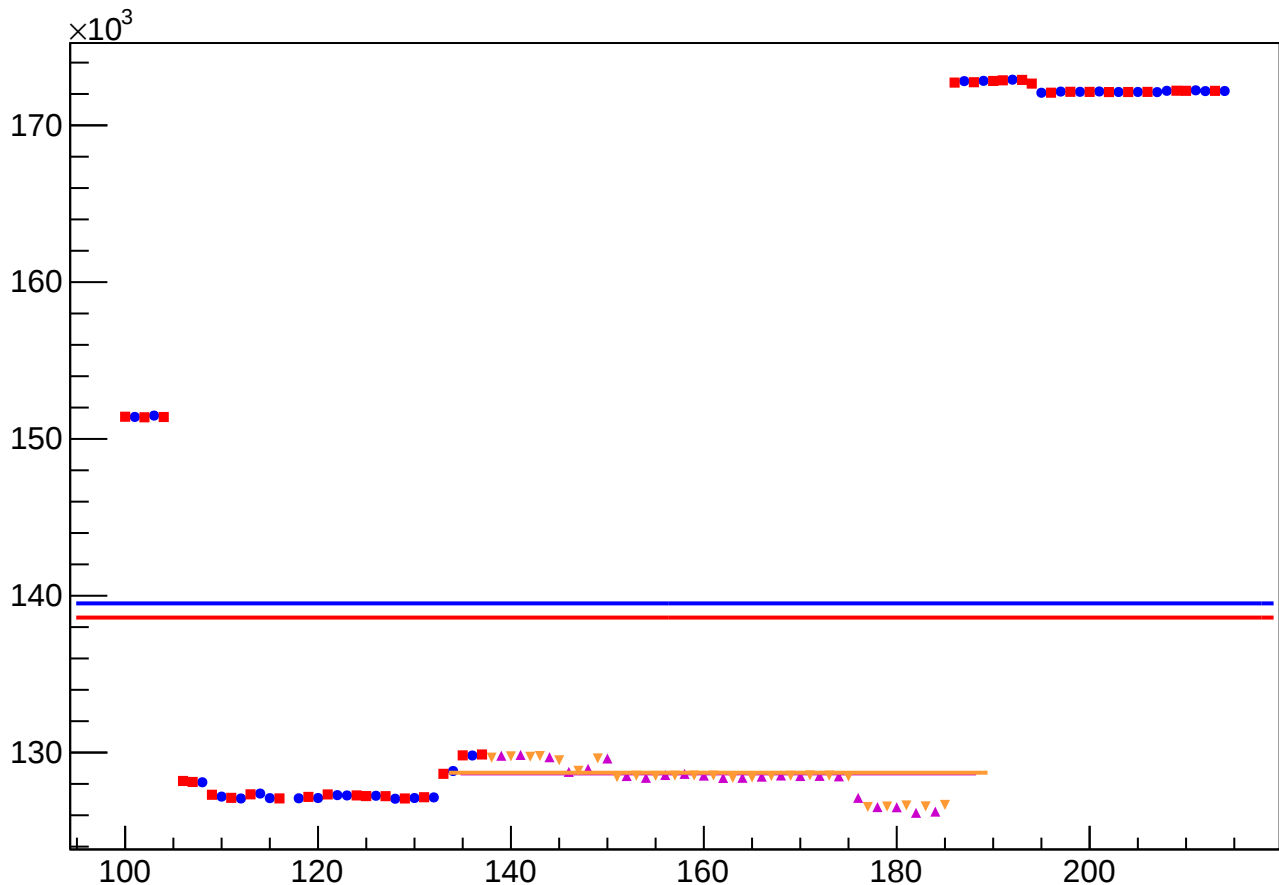
Right: 0.788 $\pm$ 0.000 χ^2 /NDF: 6615781.9/64

In: 0.802 $\pm$ 0.000 χ^2 /NDF:3639890.9/53

Out: 0.793 $\pm$ 0.000 χ^2 /NDF:4170260.6/58

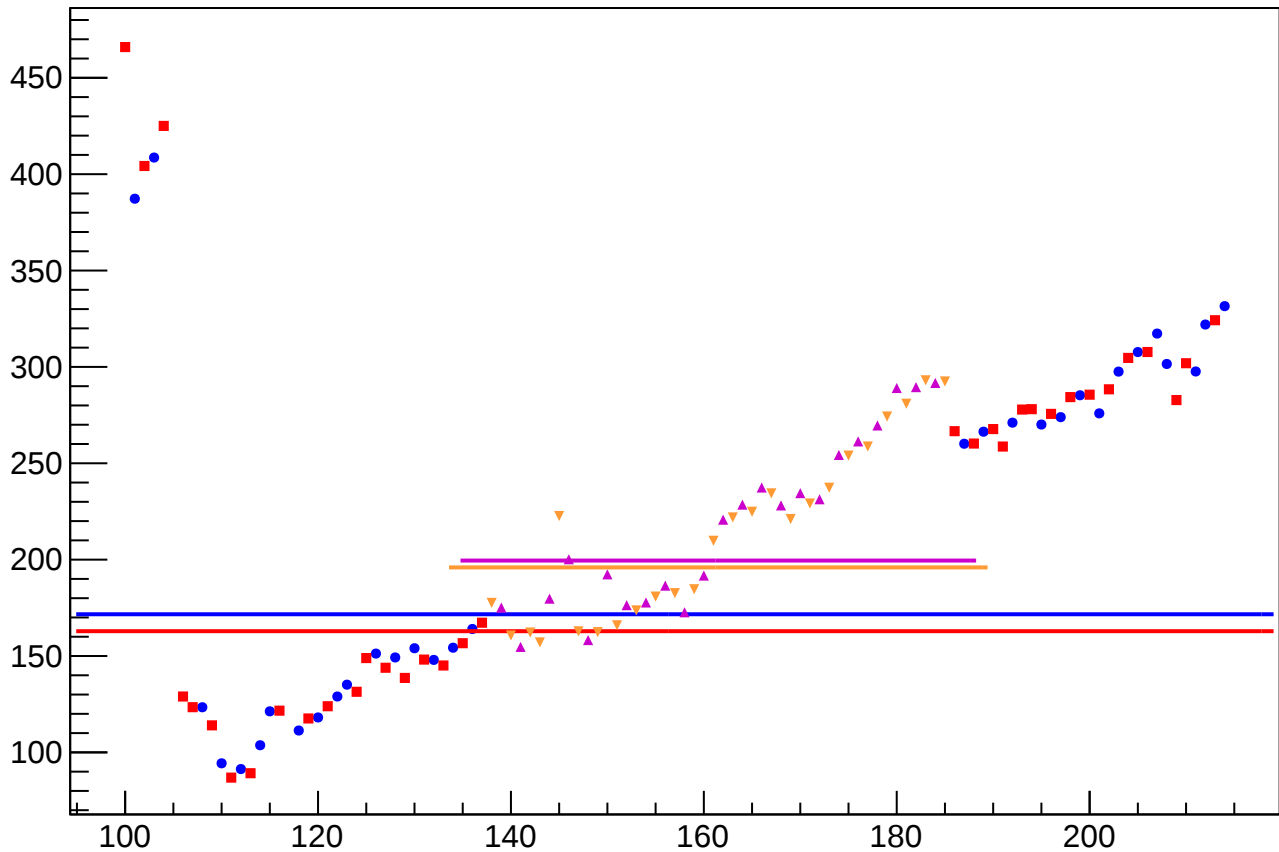
All: 0.797 $\pm$ 0.000 χ^2 /NDF: 7813423.5/112

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 139511.892 $\pm$ 0.047 χ^2 /NDF: 174614870928.2/30
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 138608.247 $\pm$ 0.044 χ^2 /NDF: 190821532311.4/33
 Left In: 128670.094 $\pm$ 0.049 χ^2 /NDF: 334875494.0/22
 Left: 128692.941 $\pm$ 0.034 χ^2 /NDF: 683588051.4/47
 Right: 139029.350 $\pm$ 0.032 χ^2 /NDF: 365633706274
 In: 134297.096 $\pm$ 0.034 χ^2 /NDF: 200532031974.9
 Out: 133959.577 $\pm$ 0.032 χ^2 /NDF: 215018704245.
 All: 134118.651 $\pm$ 0.023 χ^2 /NDF: 41560324

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 171.665+/-0.033 χ^2/NDF : 6073096.1/30

Left Out: 195.964+/-0.033 χ^2/NDF :1316091.7/24

Right Out: 162.876+/-0.031 χ^2/NDF : 6449188.1/33

Left In: 199.531+/-0.035 χ^2/NDF :1175342.5/22

Left: 197.666+/-0.024 χ^2/NDF : 2497014.2/47

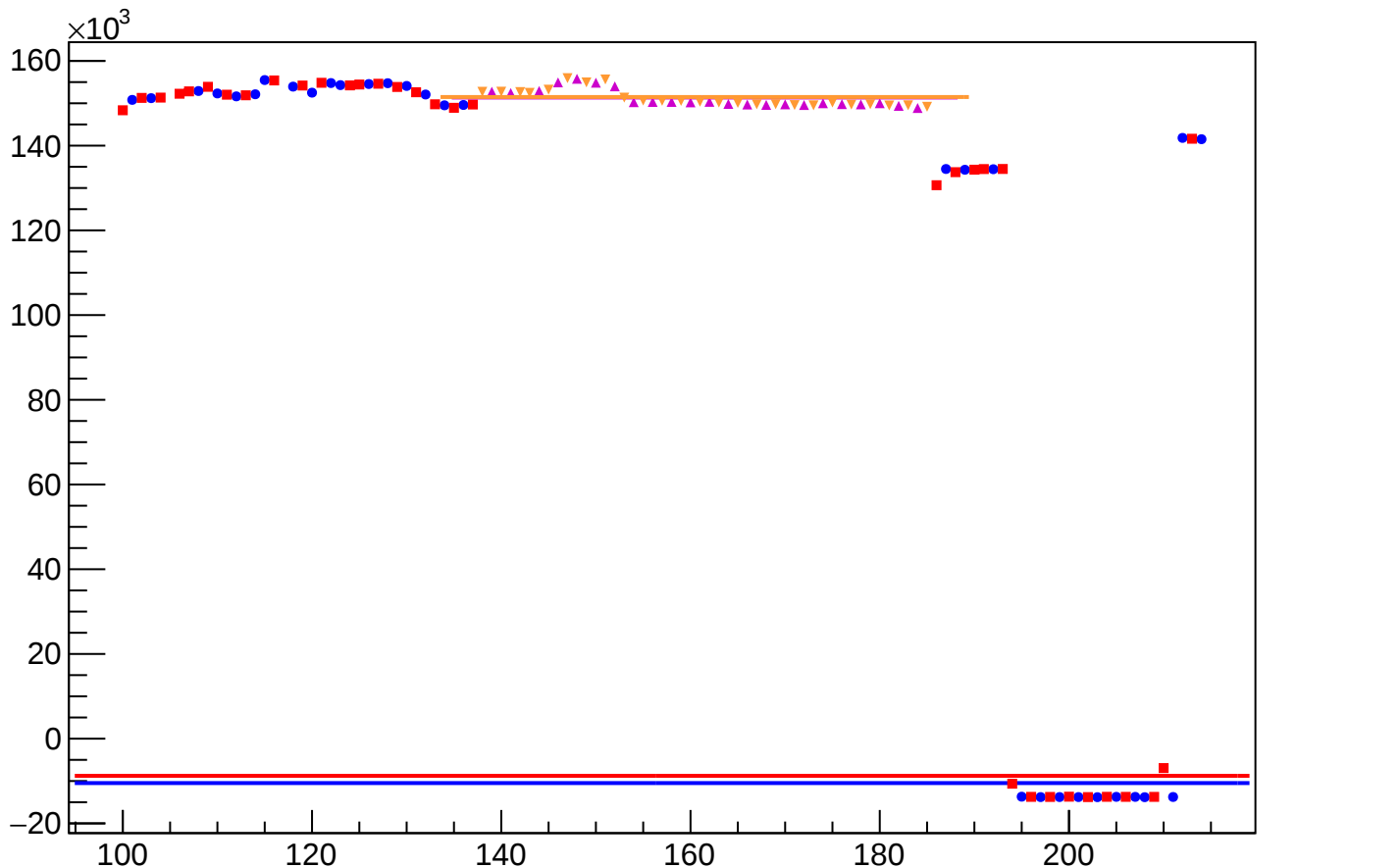
Right: 166.971+/-0.023 χ^2/NDF : 12559613.6/64

In: 185.068+/-0.024 χ^2/NDF :7586449.1/53

Out: 178.421+/-0.023 χ^2/NDF :8298689.6/58

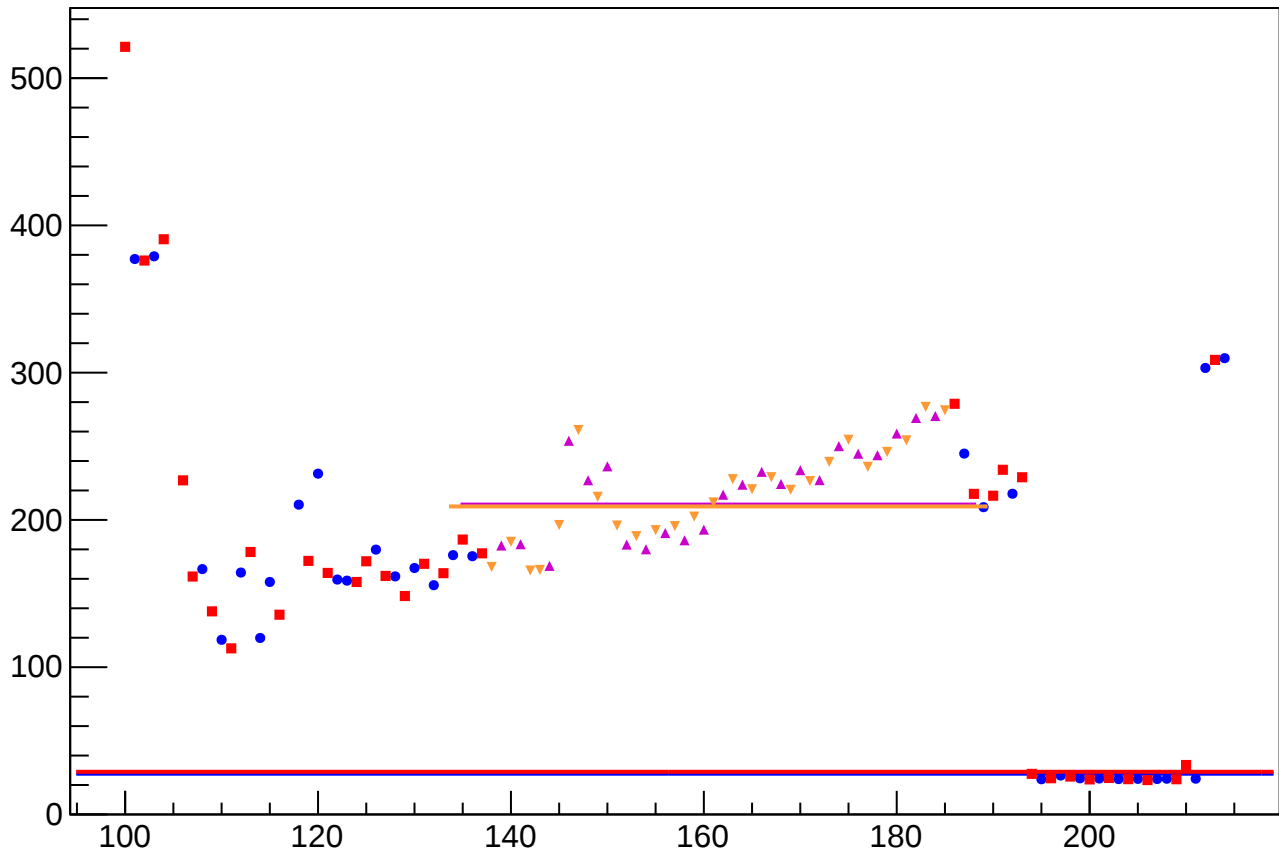
All: 181.554+/-0.016 χ^2/NDF : 15925866.5/13

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10481.581+/-0.009	$\chi^2/\text{NDF}: 6228382775246.7/30$	Left: 151423.440+/-0.036	$\chi^2/\text{NDF}: 2913216467.1/4$
Left Out: 151480.339+/-0.049	$\chi^2/\text{NDF}: 1483692735.3/24$	Right: -9700.319+/-0.007	$\chi^2/\text{NDF}: 1359073334871$
Right Out: -8765.648+/-0.010	$\chi^2/\text{NDF}: 7346482330308.8/33$	In: -5433.036+/-0.009	$\chi^2/\text{NDF}: 15901320536547.3$
Left In: 151362.440+/-0.051	$\chi^2/\text{NDF}: 1426782789.9/22$	Out: -2410.497+/-0.010	$\chi^2/\text{NDF}: 17423840330837$
		All: -4050.296+/-0.007	$\chi^2/\text{NDF}: 3337622391$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.680+/-0.006 χ^2/NDF : 13882137.9/30

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

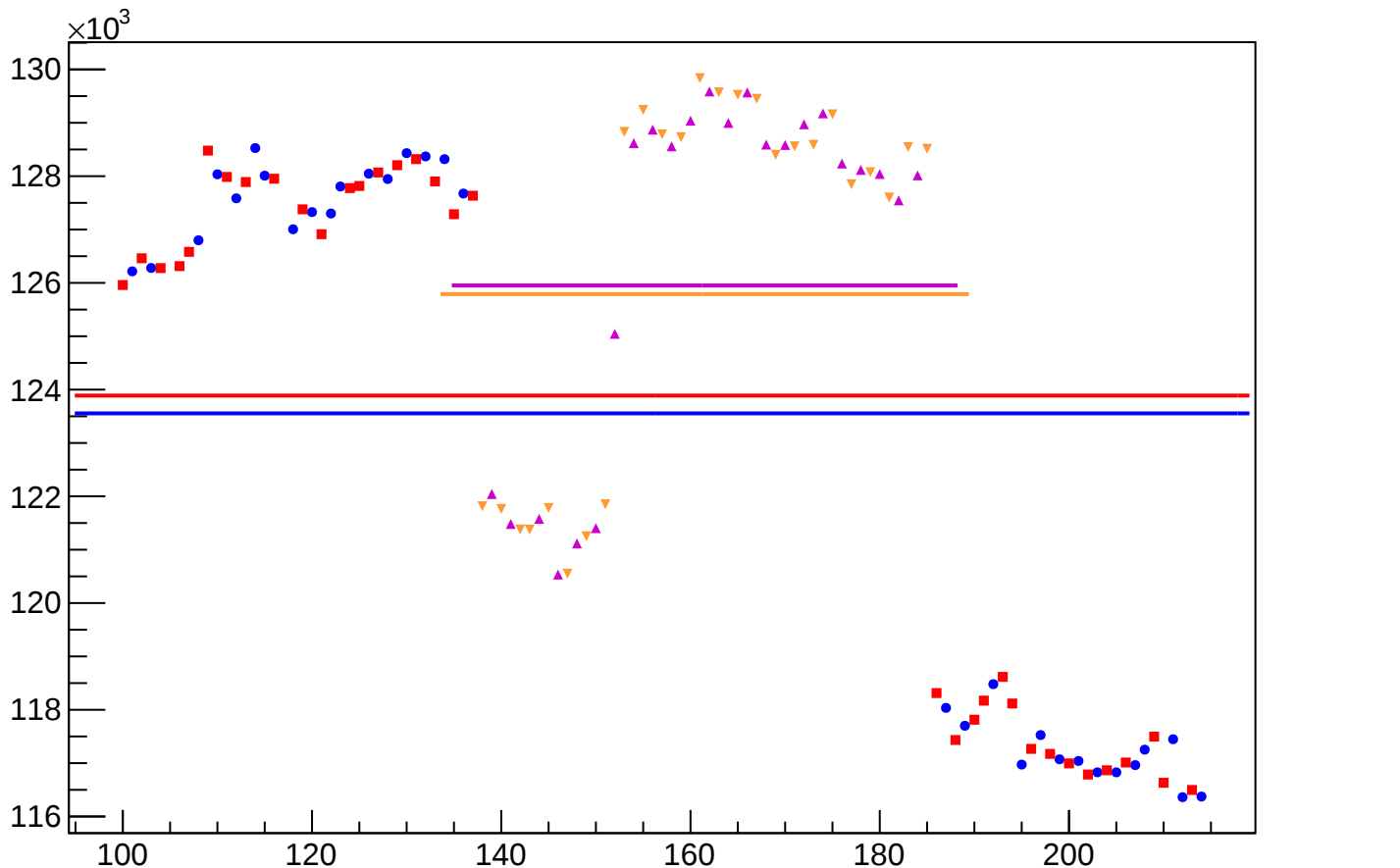
Right: 28.271+/-0.005 χ^2/NDF : 28643075.3/64

In: 33.381+/-0.006 χ^2/NDF : 39229330.5/53

Out: 36.123+/-0.007 χ^2/NDF : 40929525.8/58

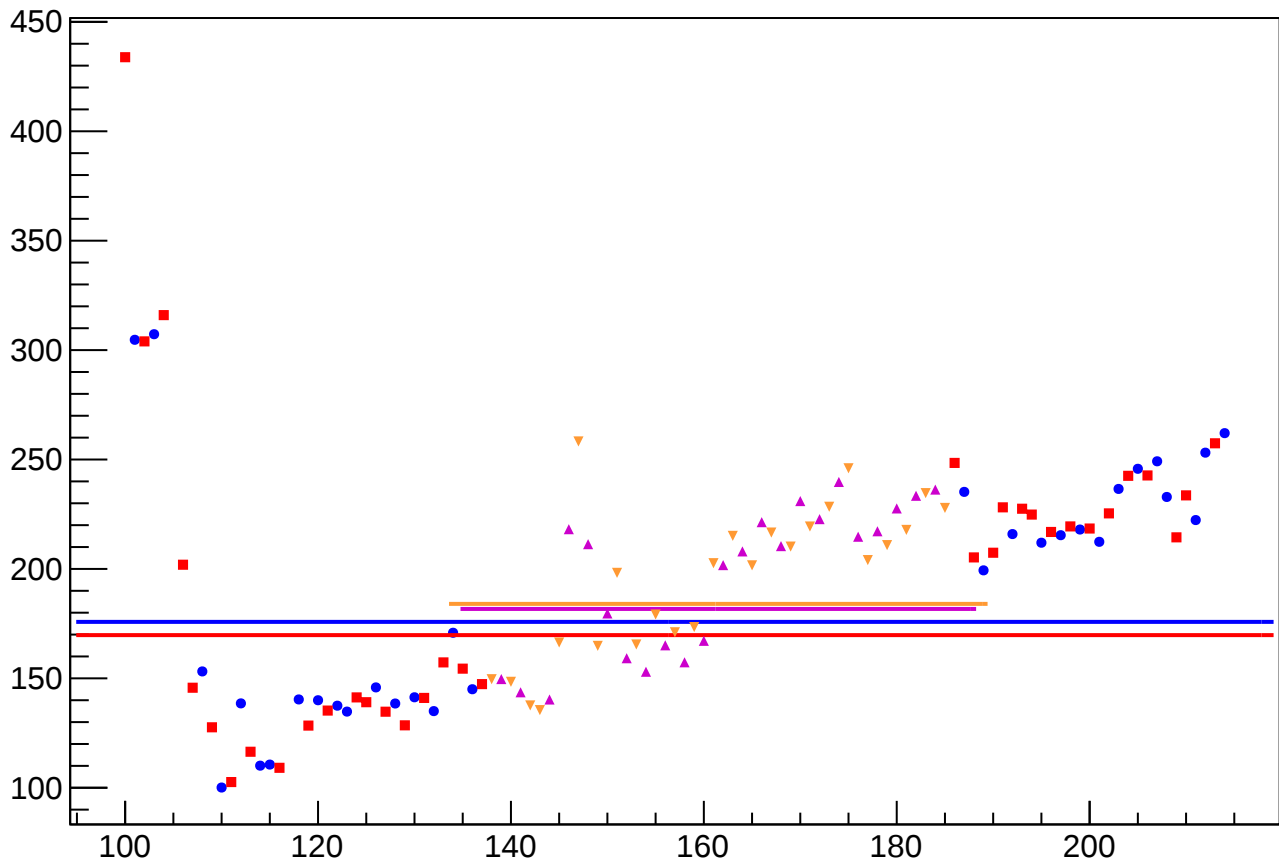
All: 34.635+/-0.005 χ^2/NDF : 80242939.3/112

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123554.675 $\pm$ 0.045	χ^2 /NDF: 12979015288.9/30	Left: 125870.001 $\pm$ 0.031	χ^2 /NDF: 12592819321.6/30
Left Out: 125790.126 $\pm$ 0.044	χ^2 /NDF: 6744310079.8/24	Right: 123729.538 $\pm$ 0.031	χ^2 /NDF: 26550503465.6/24
Right Out: 123888.514 $\pm$ 0.043	χ^2 /NDF: 13543167095.1/33	In: 124773.207 $\pm$ 0.032	χ^2 /NDF: 20238305122.4/33
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: 124799.757 $\pm$ 0.022	χ^2 /NDF: 414771125.0/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 175.803 $\pm$ 0.032 χ^2 /NDF: 2614409.1/30

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF:1126592.5/24

Right Out: 169.752 $\pm$ 0.031 χ^2 /NDF: 2985073.5/33

Left In: 181.714 $\pm$ 0.032 χ^2 /NDF:1116142.0/22

Left: 182.890 $\pm$ 0.022 χ^2 /NDF: 2245464.4/47

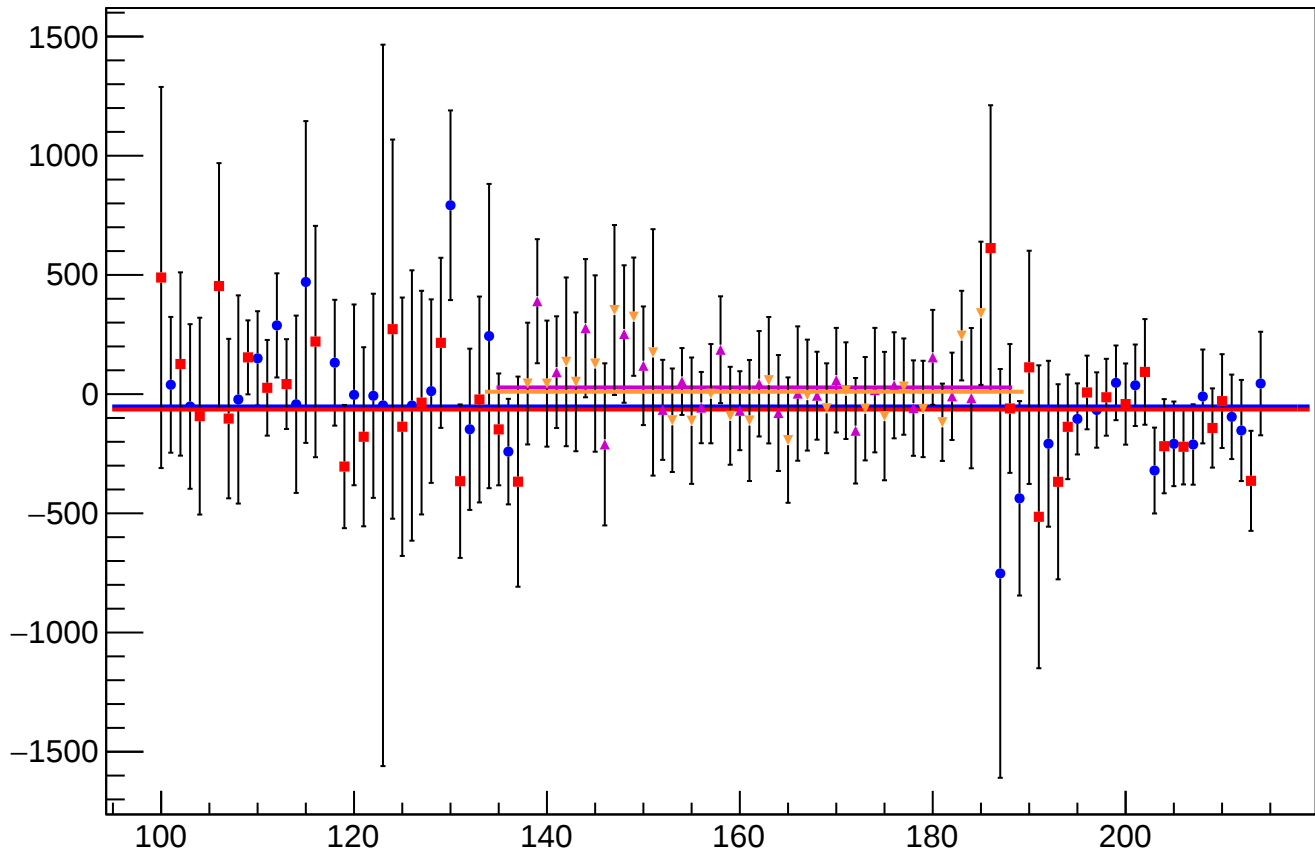
Right: 172.633 $\pm$ 0.022 χ^2 /NDF: 5618091.5/64

In: 178.807 $\pm$ 0.023 χ^2 /NDF:3747779.8/53

Out: 176.781 $\pm$ 0.022 χ^2 /NDF:4218766.6/58

All: 177.762 $\pm$ 0.016 χ^2 /NDF: 7970724.9/112

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -51.736 ± 43.382 $\chi^2/\text{NDF}: 17.2/30$

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 $\chi^2/\text{NDF}: 15.5/47$

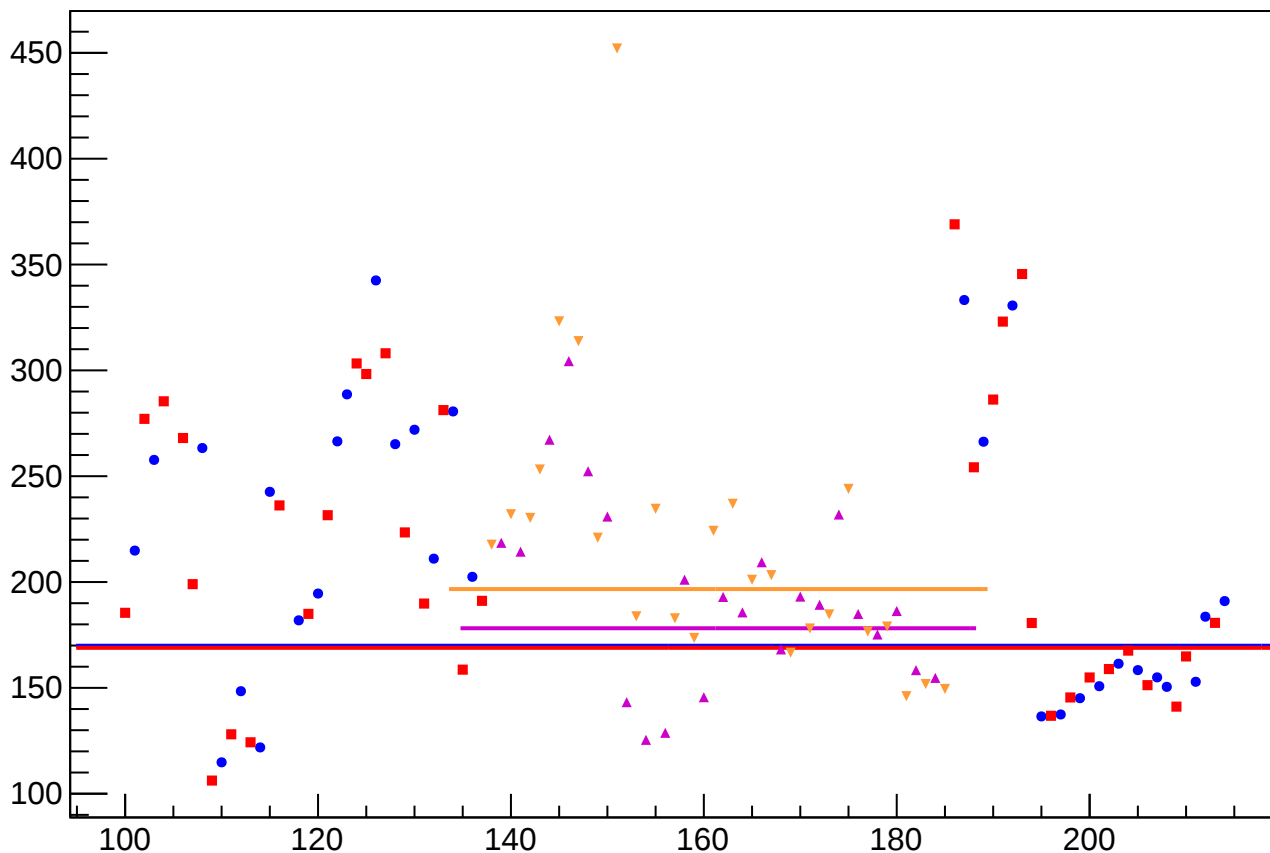
Right: -58.214 ± 30.567 $\chi^2/\text{NDF}: 32.4/64$

In: -12.923 ± 31.088 $\chi^2/\text{NDF}: 25.8/53$

Out: -30.892 ± 31.905 $\chi^2/\text{NDF}: 24.9/58$

All: -21.674 ± 22.266 $\chi^2/\text{NDF}: 50.9/112$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 169.903 $\pm$ 0.031 χ^2 /NDF: 2165402.8/30

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 168.923 $\pm$ 0.030 χ^2 /NDF: 2846104.4/33

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

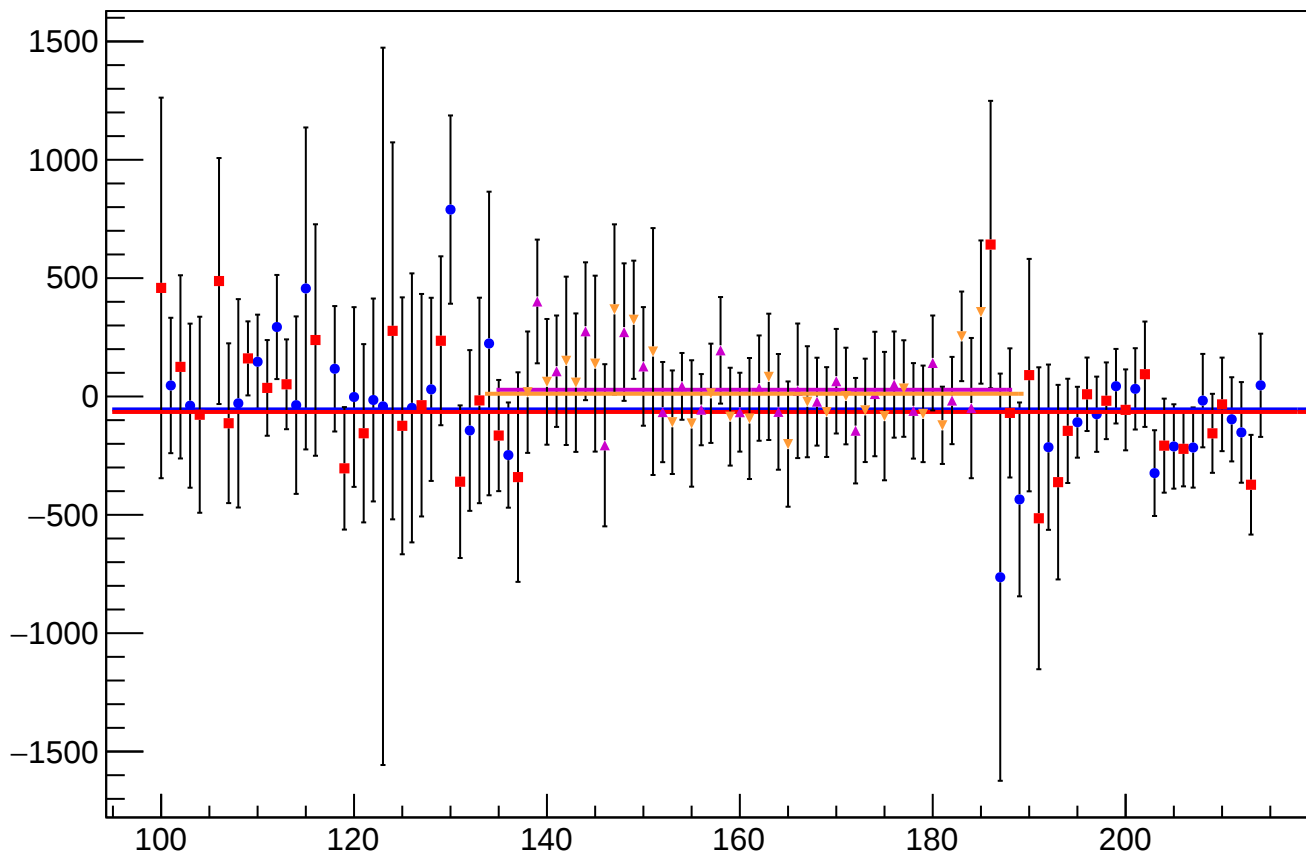
Right: 169.410 $\pm$ 0.022 χ^2 /NDF: 5012020.6/64

In: 173.922 $\pm$ 0.022 χ^2 /NDF:3819665.4/53

Out: 181.453 $\pm$ 0.023 χ^2 /NDF:5003712.5/58

All: 177.590 $\pm$ 0.016 χ^2 /NDF: 8880535.1/112

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -54.639 ± 43.578 $\chi^2/\text{NDF}: 17.2/30$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -65.342 ± 43.285 $\chi^2/\text{NDF}: 15.5/33$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

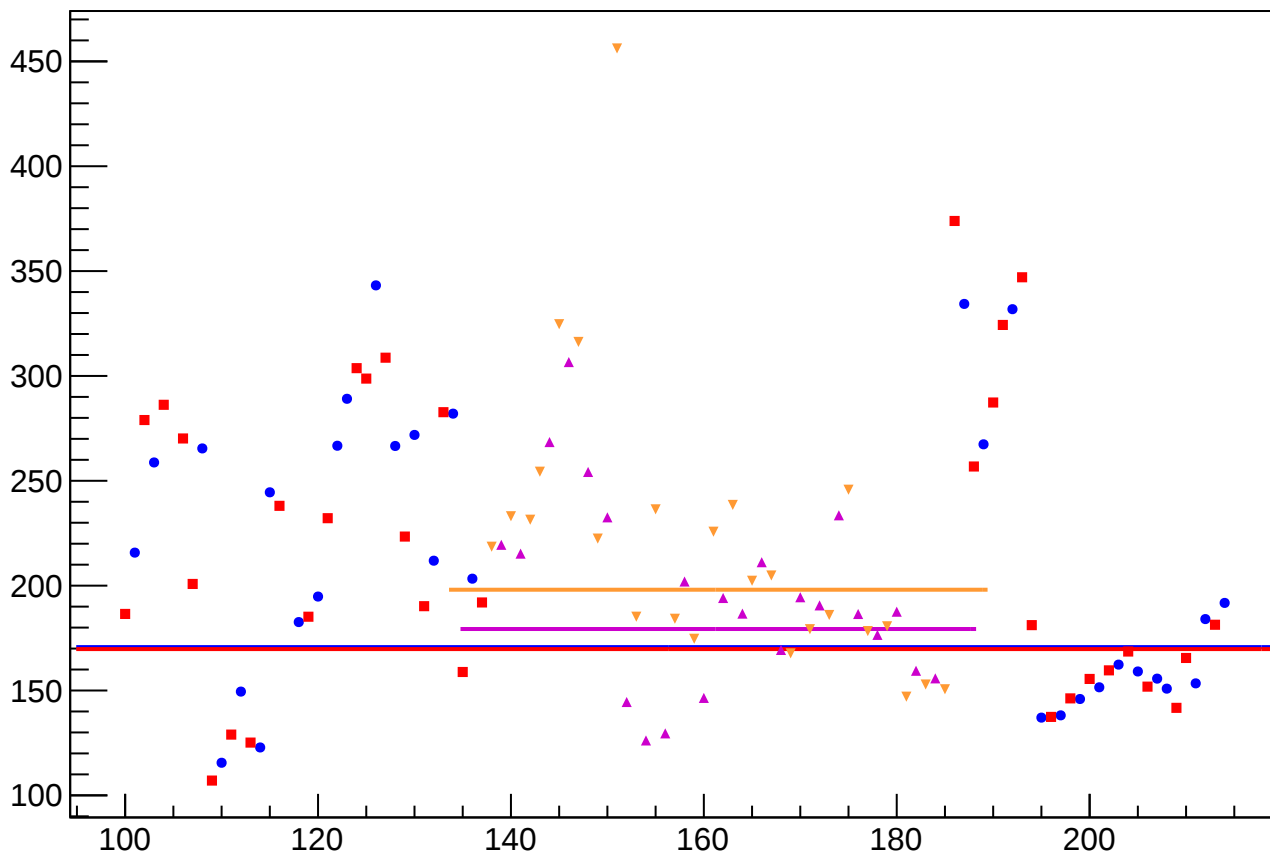
Right: -60.027 ± 30.710 $\chi^2/\text{NDF}: 32.7/64$

In: -14.384 ± 31.259 $\chi^2/\text{NDF}: 26.0/53$

Out: -30.746 ± 32.091 $\chi^2/\text{NDF}: 25.8/58$

All: -22.350 ± 22.392 $\chi^2/\text{NDF}: 52.0/112$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 170.693 ± 0.031 $\chi^2/\text{NDF}: 2156750.5/30$

Left Out: 198.059 ± 0.034 $\chi^2/\text{NDF}: 1778526.5/24$

Right Out: 169.754 ± 0.031 $\chi^2/\text{NDF}: 2841927.4/33$

Left In: 179.324 ± 0.032 $\chi^2/\text{NDF}: 1618266.2/22$

Left: 188.094 ± 0.023 $\chi^2/\text{NDF}: 3560073.1/47$

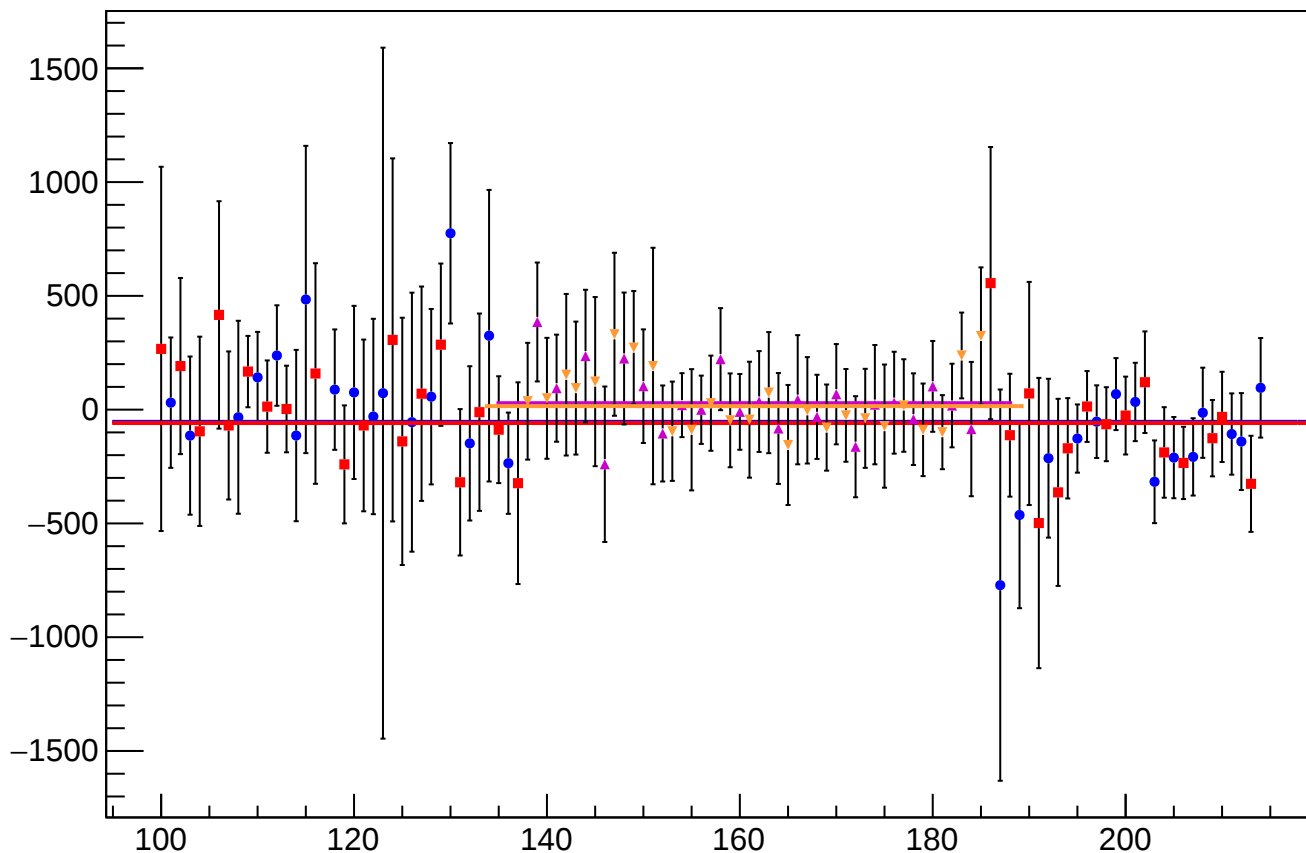
Right: 170.220 ± 0.022 $\chi^2/\text{NDF}: 4999146.0/64$

In: 174.883 ± 0.022 $\chi^2/\text{NDF}: 3813098.9/53$

Out: 182.501 ± 0.023 $\chi^2/\text{NDF}: 5005619.2/58$

All: 178.592 ± 0.016 $\chi^2/\text{NDF}: 8876545.7/112$

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -53.663 ± 43.665 $\chi^2/\text{NDF}: 16.9/30$

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 $\chi^2/\text{NDF}: 13.4/47$

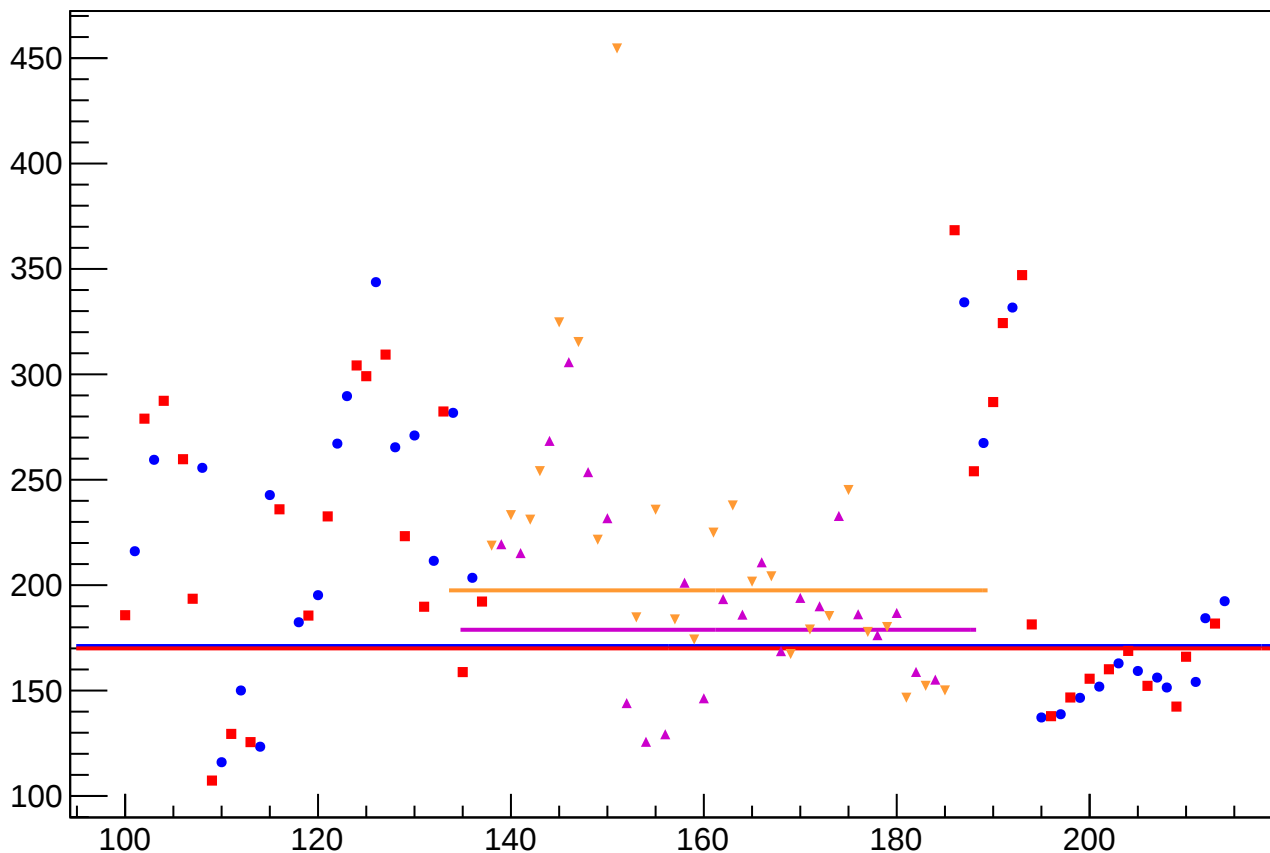
Right: -56.252 ± 30.751 $\chi^2/\text{NDF}: 30.4/64$

In: -13.693 ± 31.250 $\chi^2/\text{NDF}: 25.0/53$

Out: -25.245 ± 32.065 $\chi^2/\text{NDF}: 21.8/58$

All: -19.320 ± 22.380 $\chi^2/\text{NDF}: 46.9/112$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 171.122 ± 0.031 $\chi^2/\text{NDF}: 2124230.5/30$

Left Out: 197.527 ± 0.034 $\chi^2/\text{NDF}: 1784225.5/24$

Right Out: 170.001 ± 0.031 $\chi^2/\text{NDF}: 2794372.0/33$

Left In: 178.836 ± 0.032 $\chi^2/\text{NDF}: 1622266.9/22$

Left: 187.585 ± 0.023 $\chi^2/\text{NDF}: 3569877.1/47$

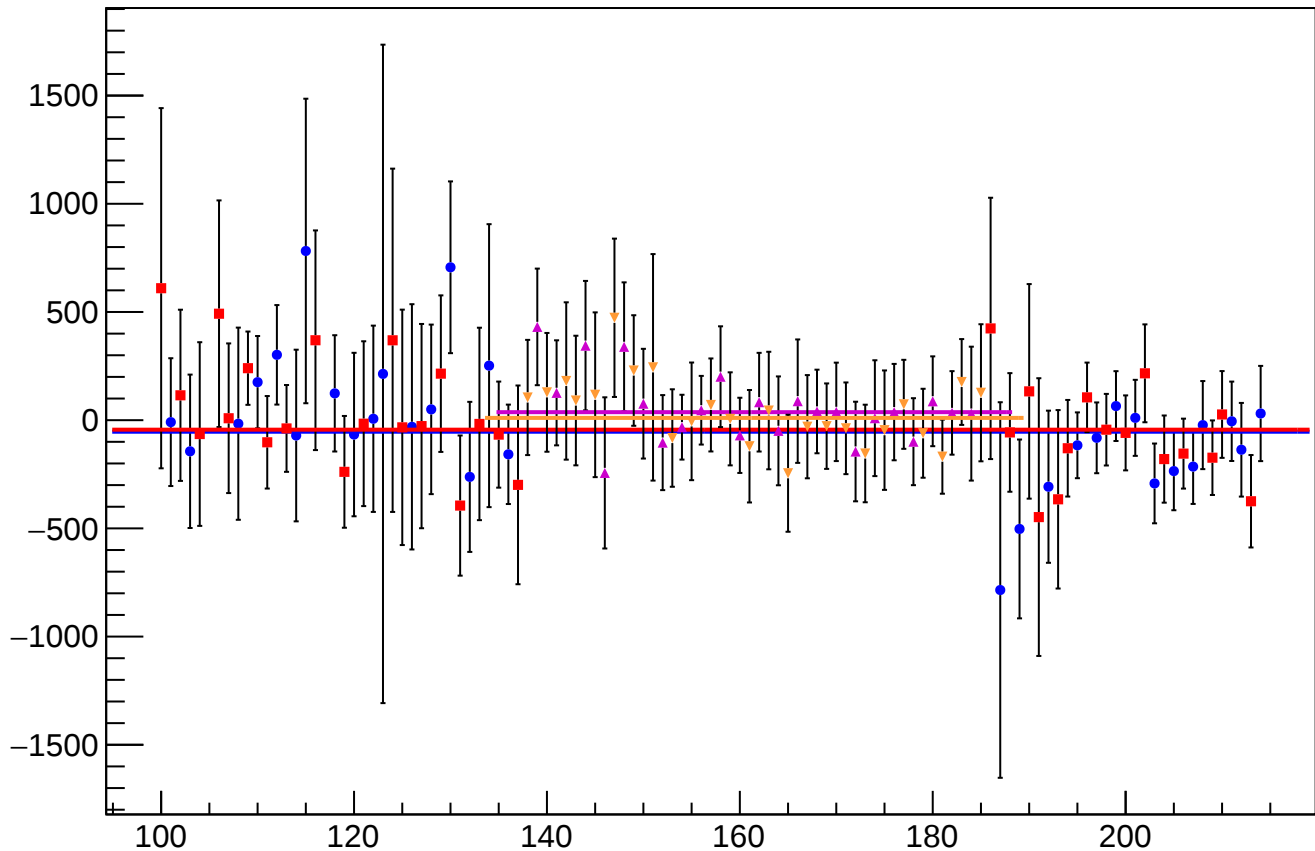
Right: 170.557 ± 0.022 $\chi^2/\text{NDF}: 4919267.8/64$

In: 174.885 ± 0.022 $\chi^2/\text{NDF}: 3776941.1/53$

Out: 182.442 ± 0.023 $\chi^2/\text{NDF}: 4943676.9/58$

All: 178.566 ± 0.016 $\chi^2/\text{NDF}: 8777598.3/112$

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -53.327 ± 44.619 $\chi^2/\text{NDF}: 17.3/30$

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 $\chi^2/\text{NDF}: 15.5/47$

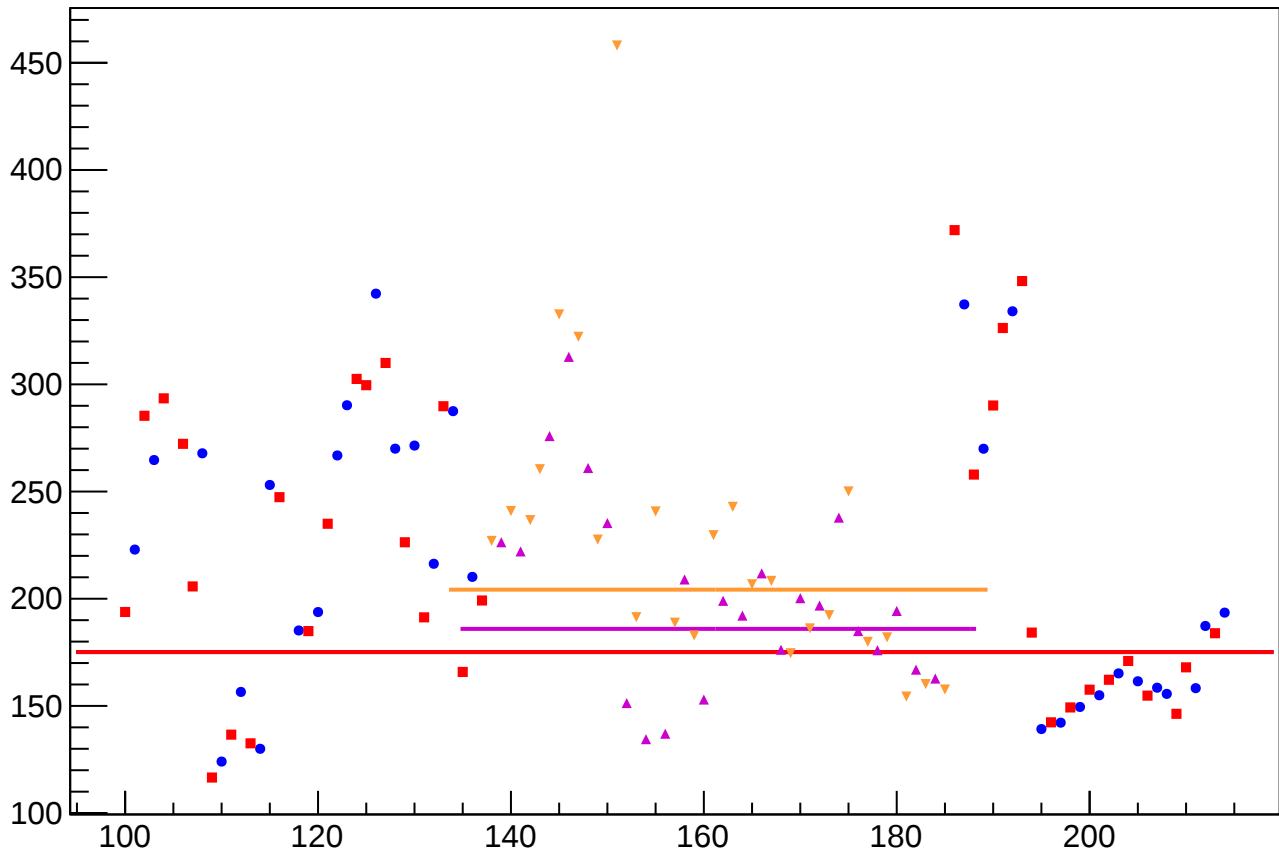
Right: -48.584 ± 31.493 $\chi^2/\text{NDF}: 33.7/64$

In: -9.889 ± 32.147 $\chi^2/\text{NDF}: 27.1/53$

Out: -19.417 ± 32.985 $\chi^2/\text{NDF}: 24.5/58$

All: -14.531 ± 23.022 $\chi^2/\text{NDF}: 51.7/112$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 175.119 ± 0.032 $\chi^2/\text{NDF}: 2043694.4/30$

Left Out: 204.236 ± 0.035 $\chi^2/\text{NDF}: 1675666.0/24$

Right Out: 175.125 ± 0.031 $\chi^2/\text{NDF}: 2612014.6/33$

Left In: 185.931 ± 0.033 $\chi^2/\text{NDF}: 1460065.0/22$

Left: 194.540 ± 0.024 $\chi^2/\text{NDF}: 3282383.3/47$

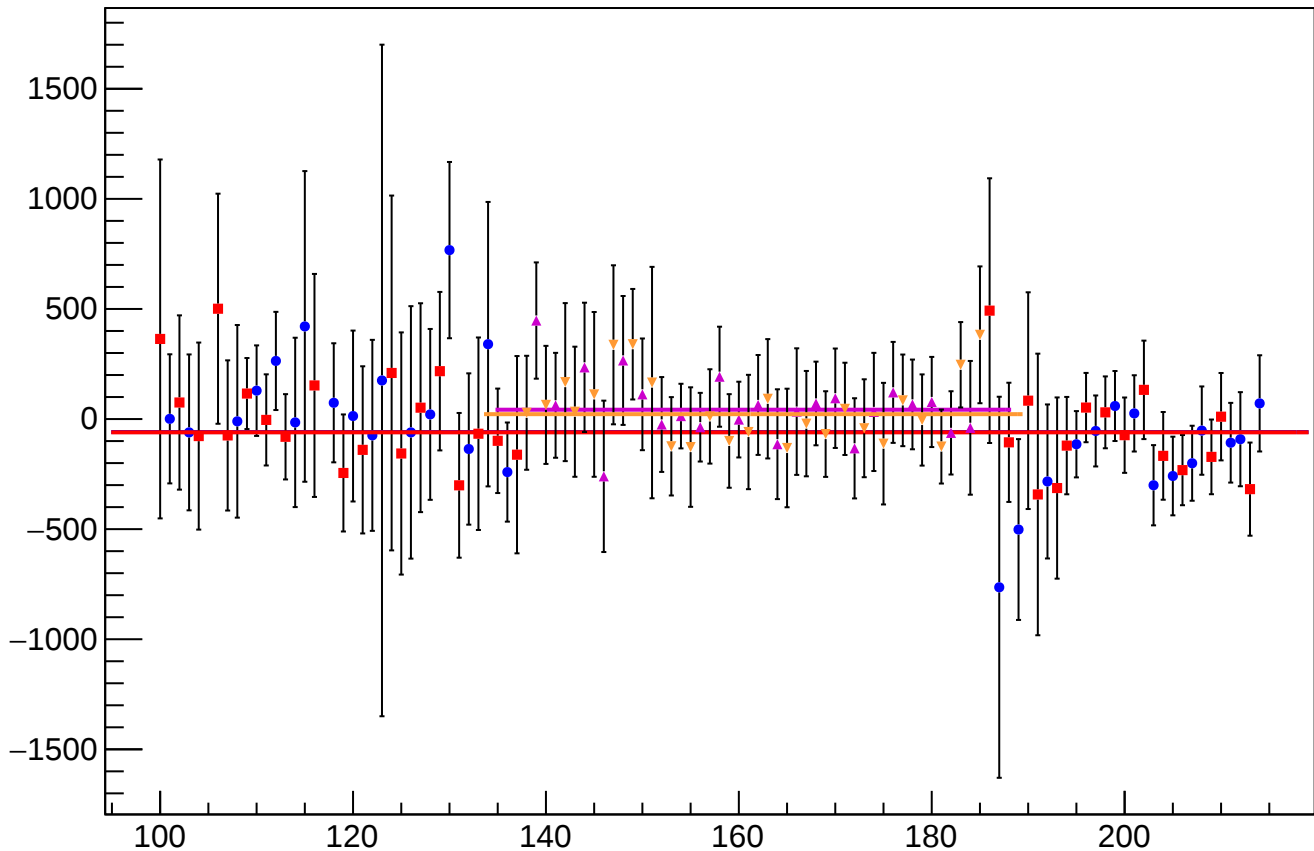
Right: 175.122 ± 0.022 $\chi^2/\text{NDF}: 4655709.0/64$

In: 180.319 ± 0.023 $\chi^2/\text{NDF}: 3560241.8/53$

Out: 188.211 ± 0.023 $\chi^2/\text{NDF}: 4673163.4/58$

All: 184.163 ± 0.016 $\chi^2/\text{NDF}: 8292132.3/112$

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -59.030 ± 44.061 χ^2/NDF : 16.5/30

Left Out: 22.189 ± 48.738 χ^2/NDF : 8.4/24

Right Out: -60.298 ± 43.775 χ^2/NDF : 11.6/33

Left In: 42.446 ± 45.861 χ^2/NDF : 6.7/22

Left: 32.933 ± 33.399 χ^2/NDF : 15.2/47

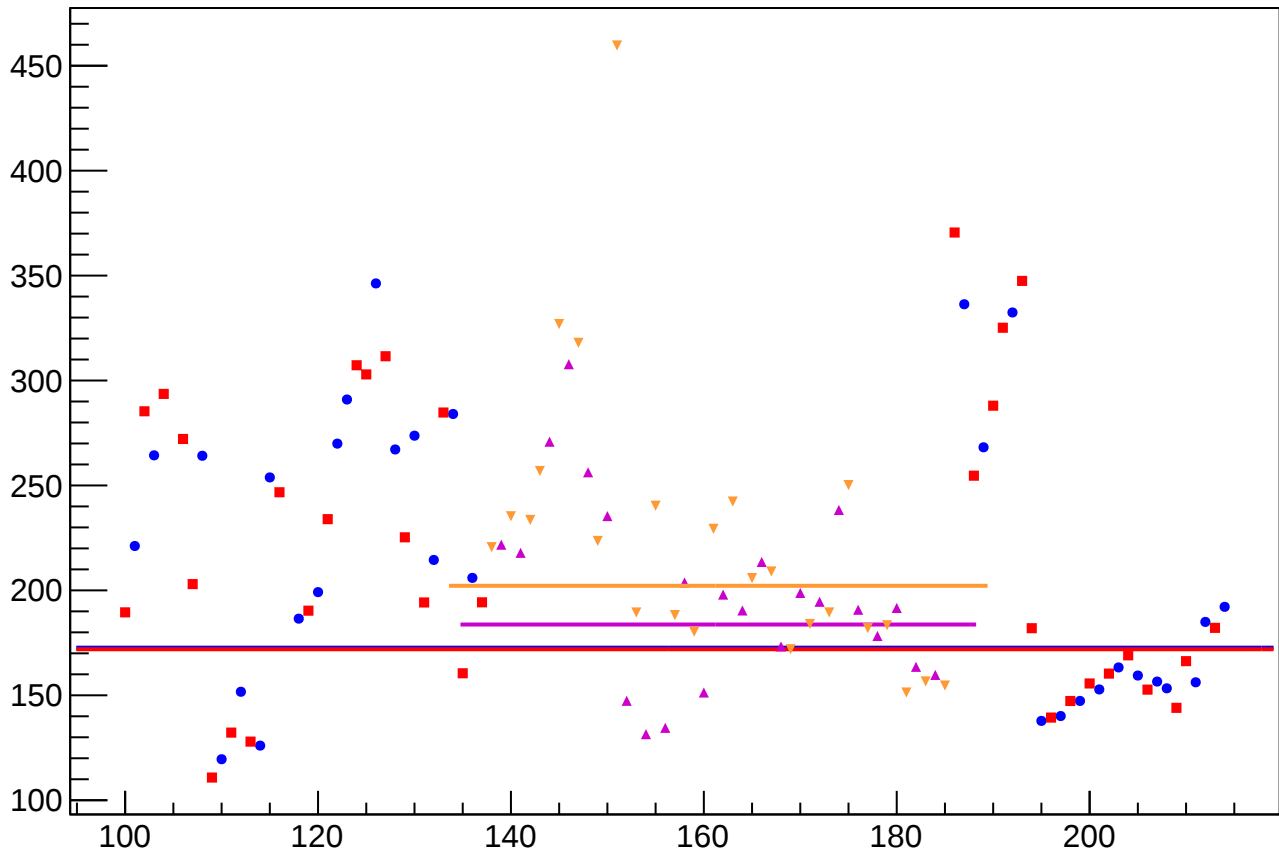
Right: -59.668 ± 31.054 χ^2/NDF : 28.1/64

In: -10.322 ± 31.773 χ^2/NDF : 25.8/53

Out: -23.467 ± 32.567 χ^2/NDF : 21.6/58

All: -16.732 ± 22.743 χ^2/NDF : 47.4/112

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 172.696 $\pm$ 0.031 χ^2 /NDF: 2127699.1/30

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

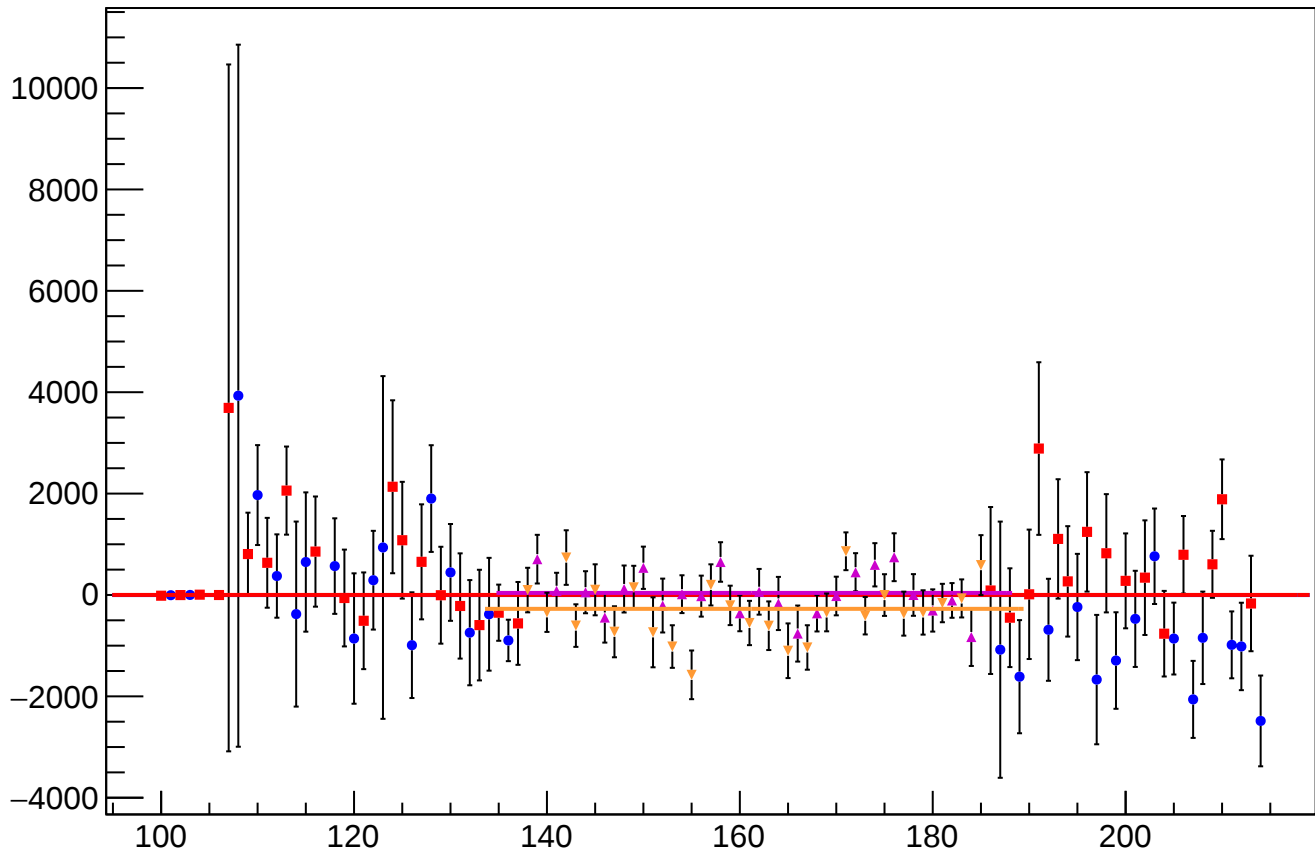
Right: 172.316 $\pm$ 0.022 χ^2 /NDF: 4901053.3/64

In: 177.994 $\pm$ 0.022 χ^2 /NDF: 3683851.7/53

Out: 185.445 $\pm$ 0.023 χ^2 /NDF: 4895962.8/58

All: 181.627 $\pm$ 0.016 χ^2 /NDF: 8633454.3/112

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.617 ± 2.251 χ^2/NDF : 45.1/30

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

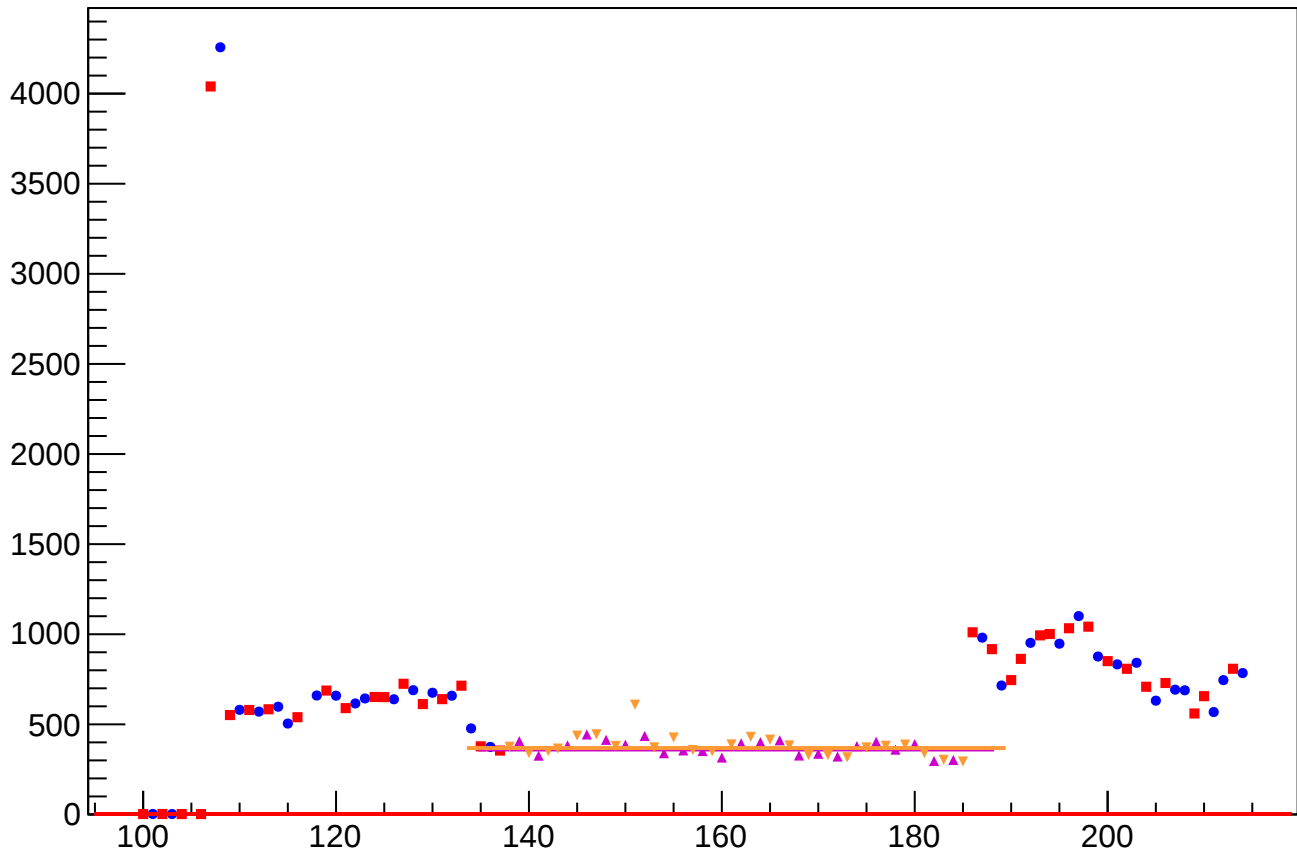
Right: -0.348 ± 1.540 χ^2/NDF : 78.3/64

In: -1.589 ± 2.251 χ^2/NDF : 65.5/53

Out: 0.605 ± 2.110 χ^2/NDF : 80.9/58

All: -0.421 ± 1.539 χ^2/NDF : 146.9/112

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.520 $\pm$ 0.002 χ^2 /NDF: 30314567.0/30

Left Out: 368.500 $\pm$ 0.061 χ^2 /NDF: 623011.6/24

Right Out: 2.491 $\pm$ 0.001 χ^2 /NDF: 31152180.9/33

Left In: 360.571 $\pm$ 0.062 χ^2 /NDF: 421995.5/22

Left: 364.563 $\pm$ 0.044 χ^2 /NDF: 1053279.8/47

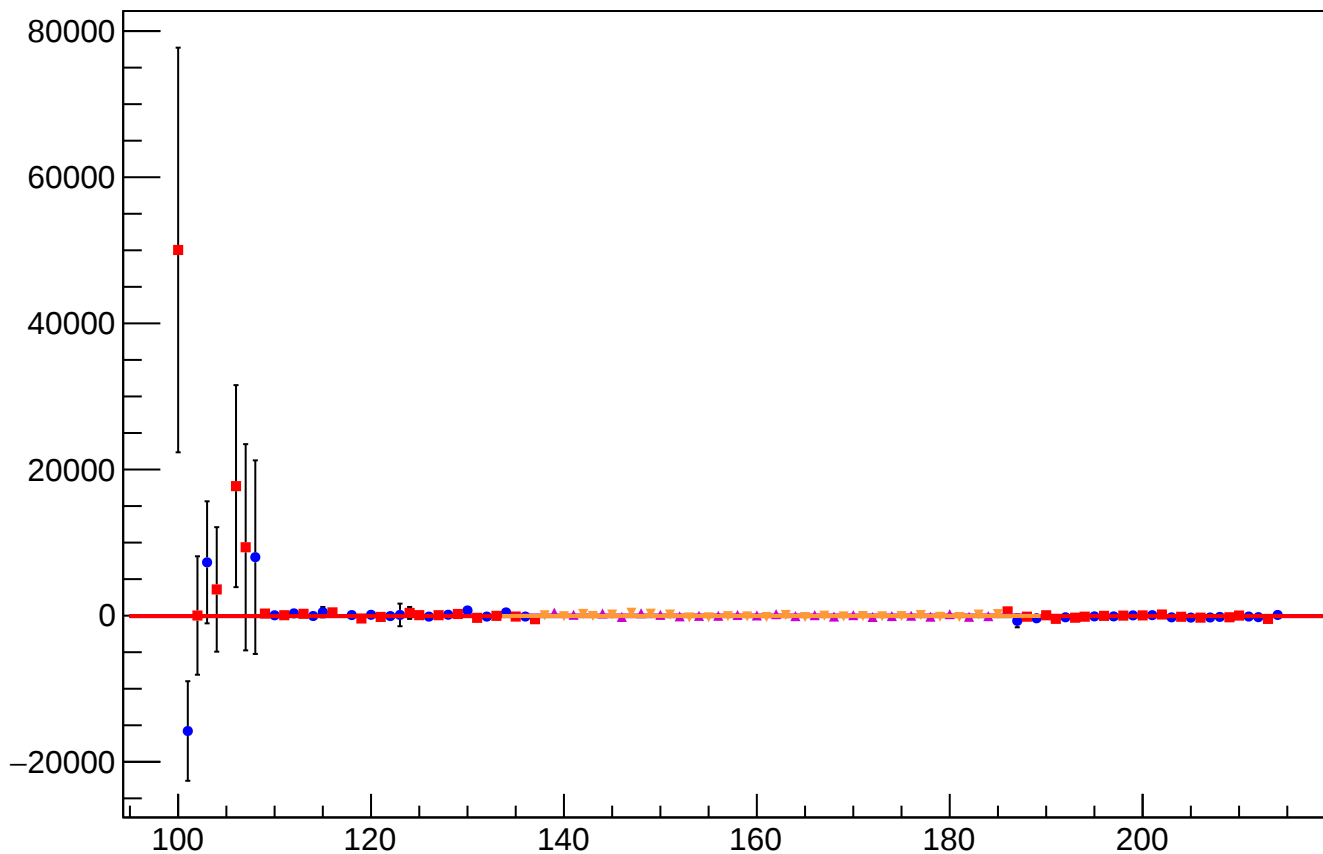
Right: 2.504 $\pm$ 0.001 χ^2 /NDF: 61466920.1/64

In: 2.757 $\pm$ 0.002 χ^2 /NDF: 64226642.3/53

Out: 2.707 $\pm$ 0.001 χ^2 /NDF: 67258554.6/58

All: 2.730 $\pm$ 0.001 χ^2 /NDF: 131485714.9/112

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -60.772 ± 48.015 χ^2/NDF : 21.4/30

Left Out: -39.036 ± 49.576 χ^2/NDF : 9.1/24

Right Out: -55.918 ± 48.427 χ^2/NDF : 24.2/33

Left In: 28.062 ± 48.032 χ^2/NDF : 9.6/22

Left: -4.426 ± 34.497 χ^2/NDF : 19.7/47

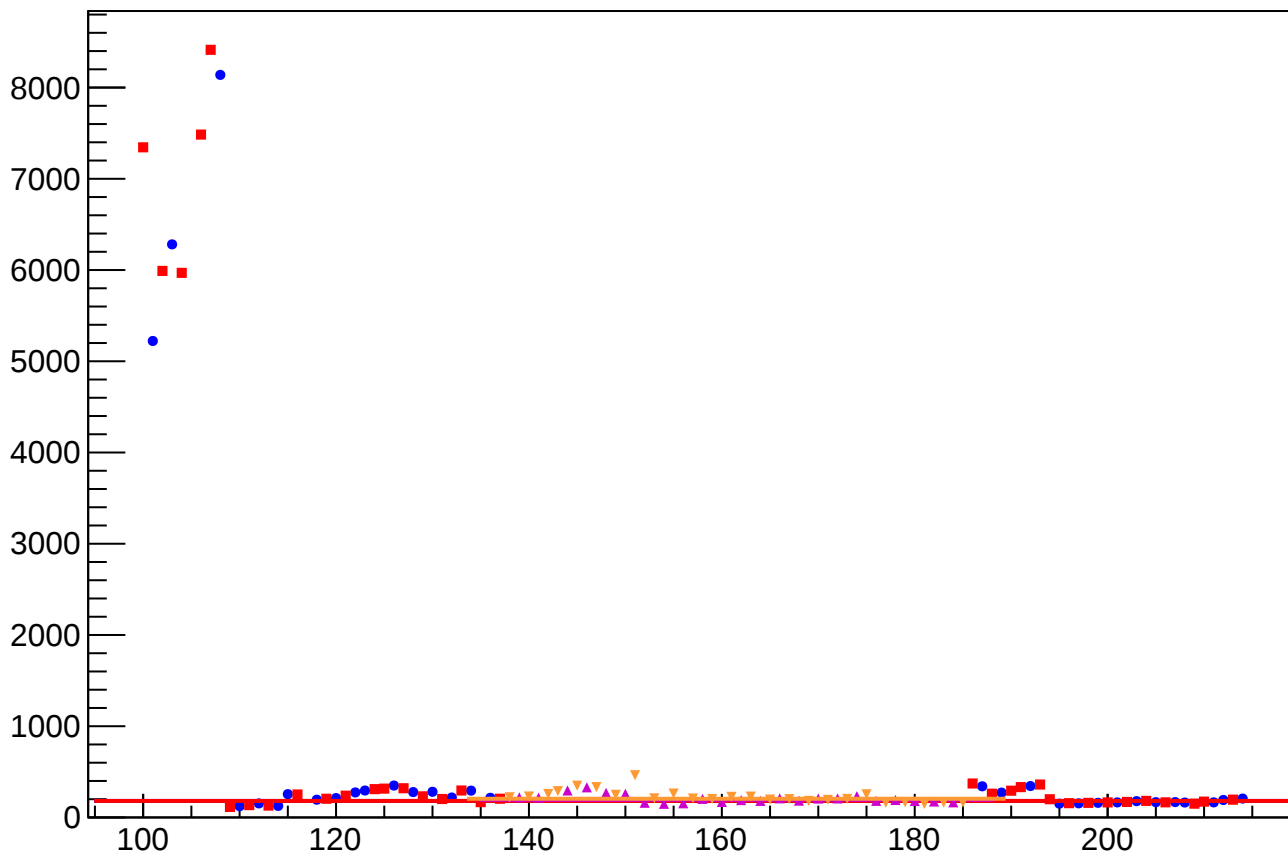
Right: -58.365 ± 34.096 χ^2/NDF : 45.6/64

In: -16.371 ± 33.958 χ^2/NDF : 32.7/53

Out: -47.674 ± 34.642 χ^2/NDF : 33.4/58

All: -31.710 ± 24.250 χ^2/NDF : 66.5/112

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 180.867 $\pm$ 0.034 χ^2 /NDF: 4560693.6/30

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

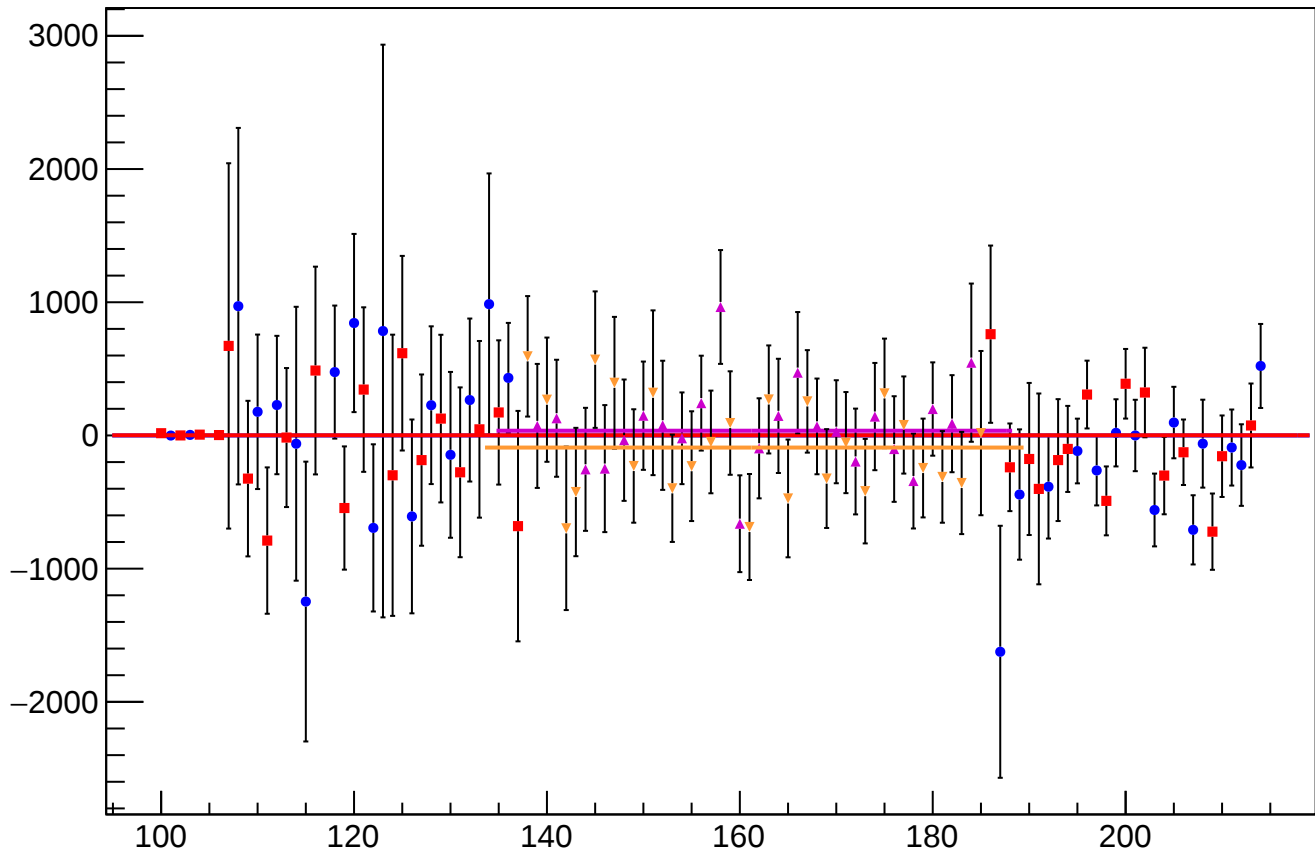
Right: 180.970 $\pm$ 0.024 χ^2 /NDF: 9986165.6/64

In: 187.240 $\pm$ 0.024 χ^2 /NDF:5810637.9/53

Out: 192.812 $\pm$ 0.024 χ^2 /NDF:7623584.3/58

All: 189.970 $\pm$ 0.017 χ^2 /NDF: 13460614.9/111

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.223 $\pm$ 1.736 χ^2/NDF : 31.3/30

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

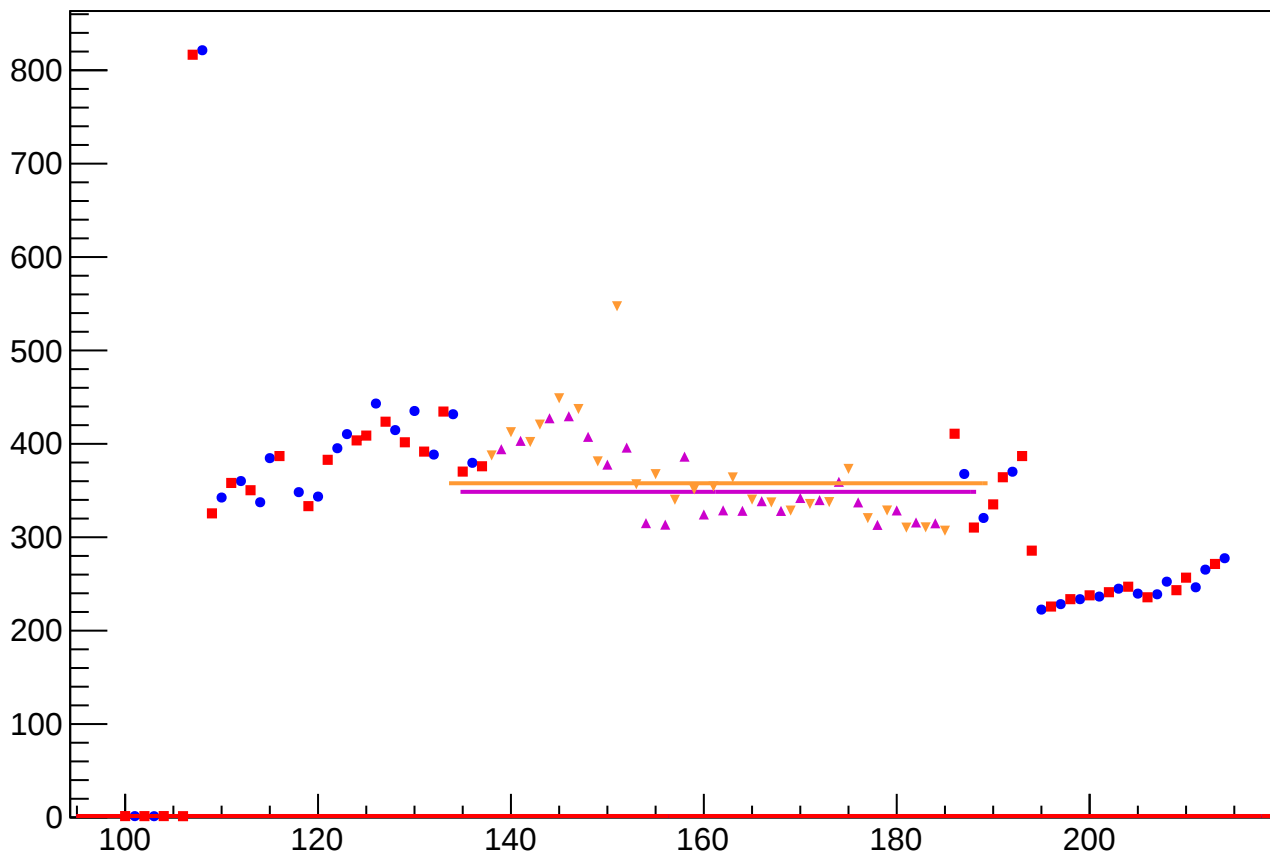
Right: 0.584 $\pm$ 1.185 χ^2/NDF : 59.7/64

In: -0.207 $\pm$ 1.736 χ^2/NDF :44.9/53

Out: 1.253 $\pm$ 1.622 χ^2/NDF :45.6/58

All: 0.572 $\pm$ 1.185 χ^2/NDF : 90.9/112

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.570+/-0.001 χ^2/NDF : 30579530.2/30

Left Out: 357.804+/-0.059 χ^2/NDF : 547036.5/24

Right Out: 1.550+/-0.001 χ^2/NDF : 30859329.4/33

Left In: 348.611+/-0.060 χ^2/NDF : 362511.2/22

Left: 353.224+/-0.042 χ^2/NDF : 921460.0/47

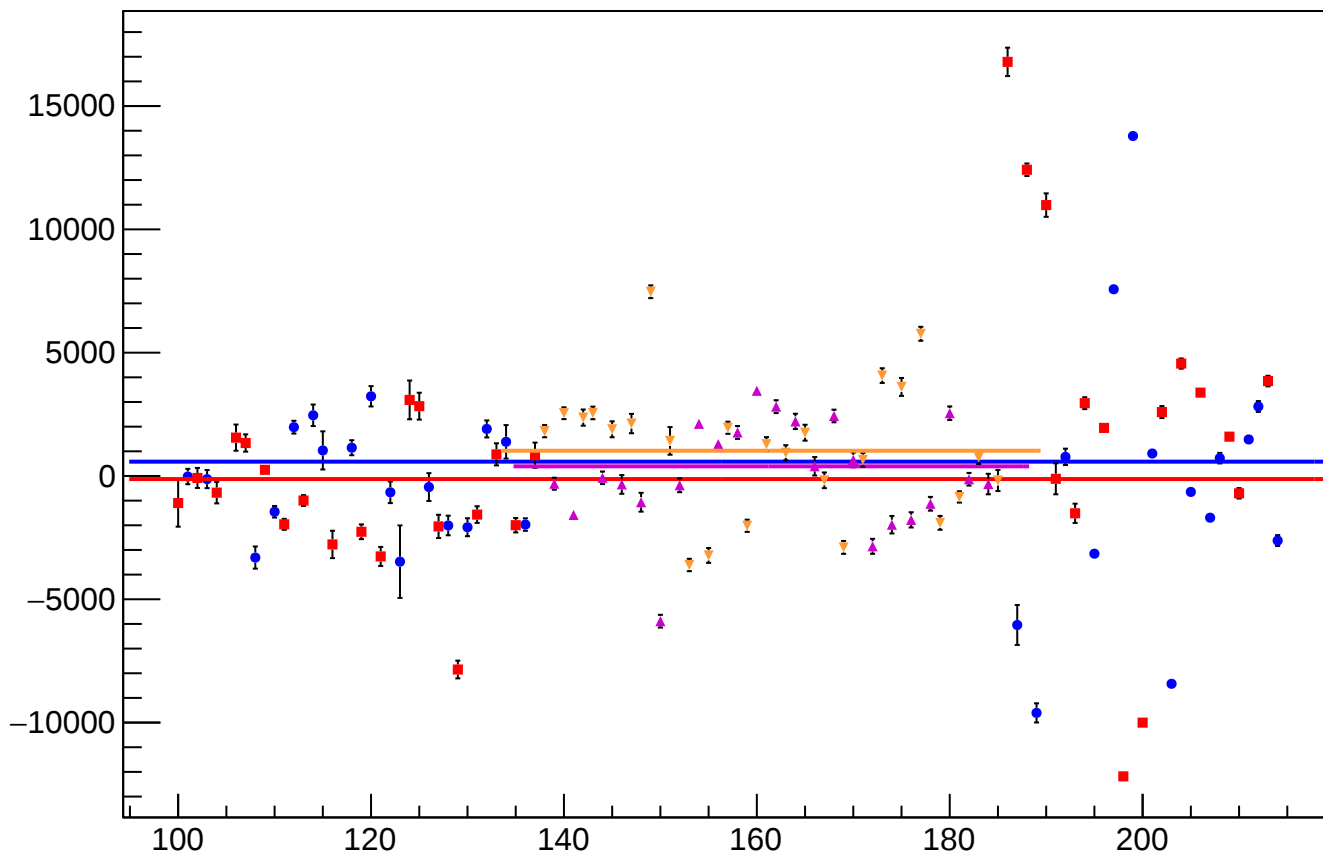
Right: 1.559+/-0.001 χ^2/NDF : 61438996.4/64

In: 1.717+/-0.001 χ^2/NDF : 64756673.5/53

Out: 1.683+/-0.001 χ^2/NDF : 67299963.0/58

All: 1.699+/-0.001 χ^2/NDF : 132057044.5/112

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 580.331 ± 47.632 $\chi^2/\text{NDF}: 11342.3/30$

Left Out: 1023.439 ± 57.338 $\chi^2/\text{NDF}: 2309.4/24$

Right Out: -125.679 ± 47.151 $\chi^2/\text{NDF}: 13688.6/33$

Left In: 390.237 ± 54.931 $\chi^2/\text{NDF}: 1584.9/22$

Left: 693.270 ± 39.666 $\chi^2/\text{NDF}: 3957.9/47$

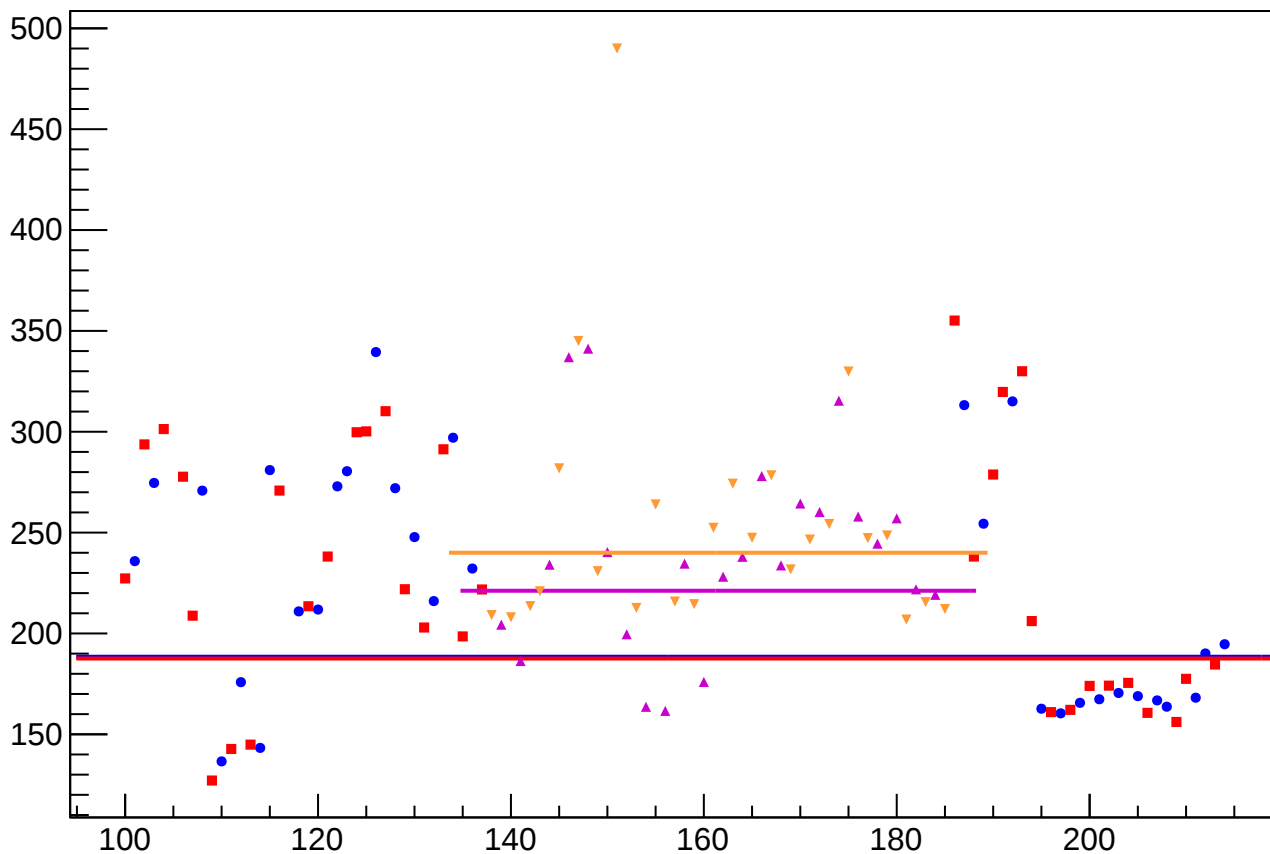
Right: 223.743 ± 33.510 $\chi^2/\text{NDF}: 25141.8/64$

In: 498.744 ± 35.987 $\chi^2/\text{NDF}: 12934.0/53$

Out: 337.906 ± 36.419 $\chi^2/\text{NDF}: 16237.6/58$

All: 419.284 ± 25.598 $\chi^2/\text{NDF}: 29181.5/112$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 188.454 ± 0.034 $\chi^2/\text{NDF}: 1544224.9/30$

Left Out: 240.019 ± 0.041 $\chi^2/\text{NDF}: 1002427.9/24$

Right Out: 187.576 ± 0.033 $\chi^2/\text{NDF}: 2121792.7/33$

Left In: 221.173 ± 0.039 $\chi^2/\text{NDF}: 1342517.8/22$

Left: 230.192 ± 0.028 $\chi^2/\text{NDF}: 2457612.6/47$

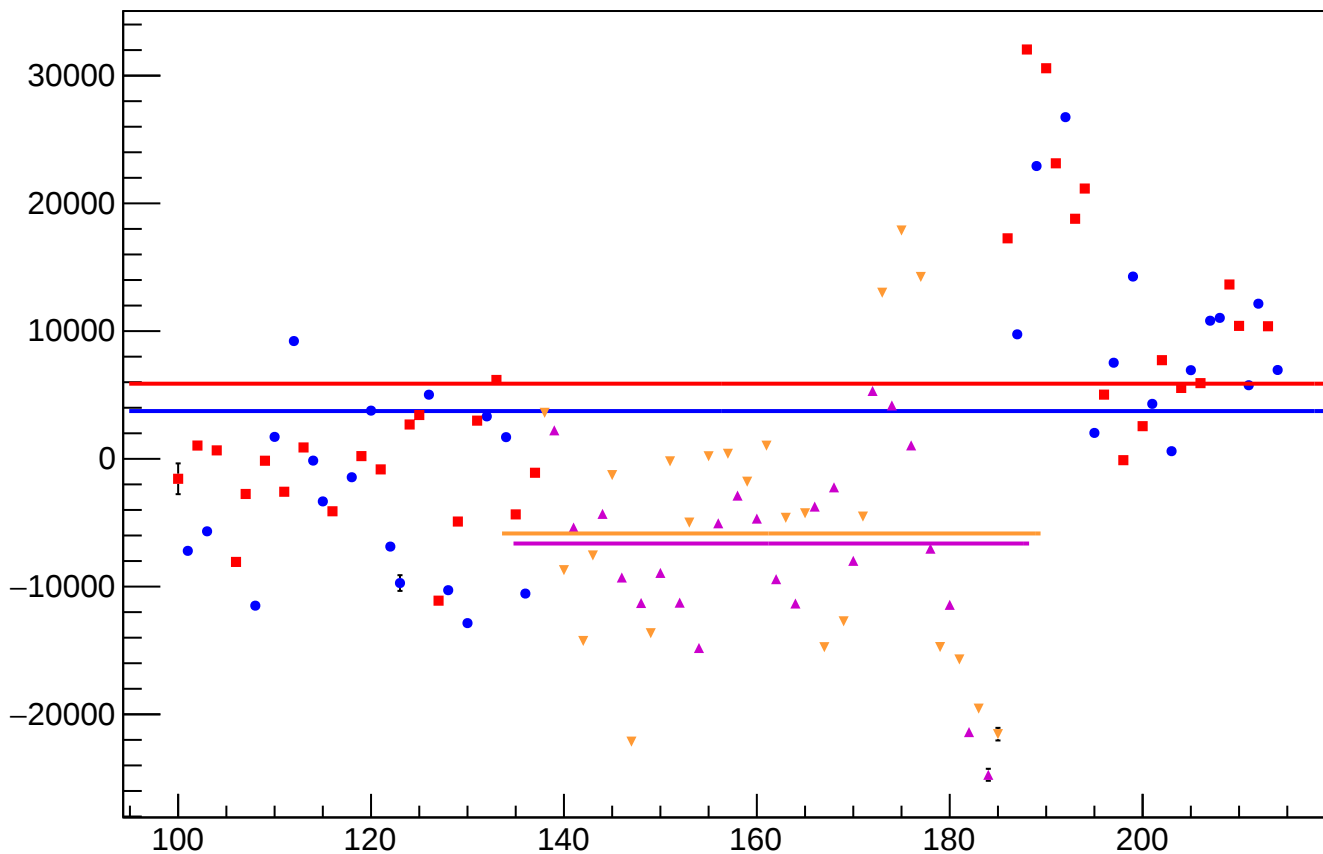
Right: 188.011 ± 0.024 $\chi^2/\text{NDF}: 3666361.0/64$

In: 202.497 ± 0.025 $\chi^2/\text{NDF}: 3291749.5/53$

Out: 208.733 ± 0.026 $\chi^2/\text{NDF}: 4122337.8/58$

All: 205.578 ± 0.018 $\chi^2/\text{NDF}: 7443758.5/112$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3741.274+/-34.201 χ^2/NDF : 83901.1/30

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

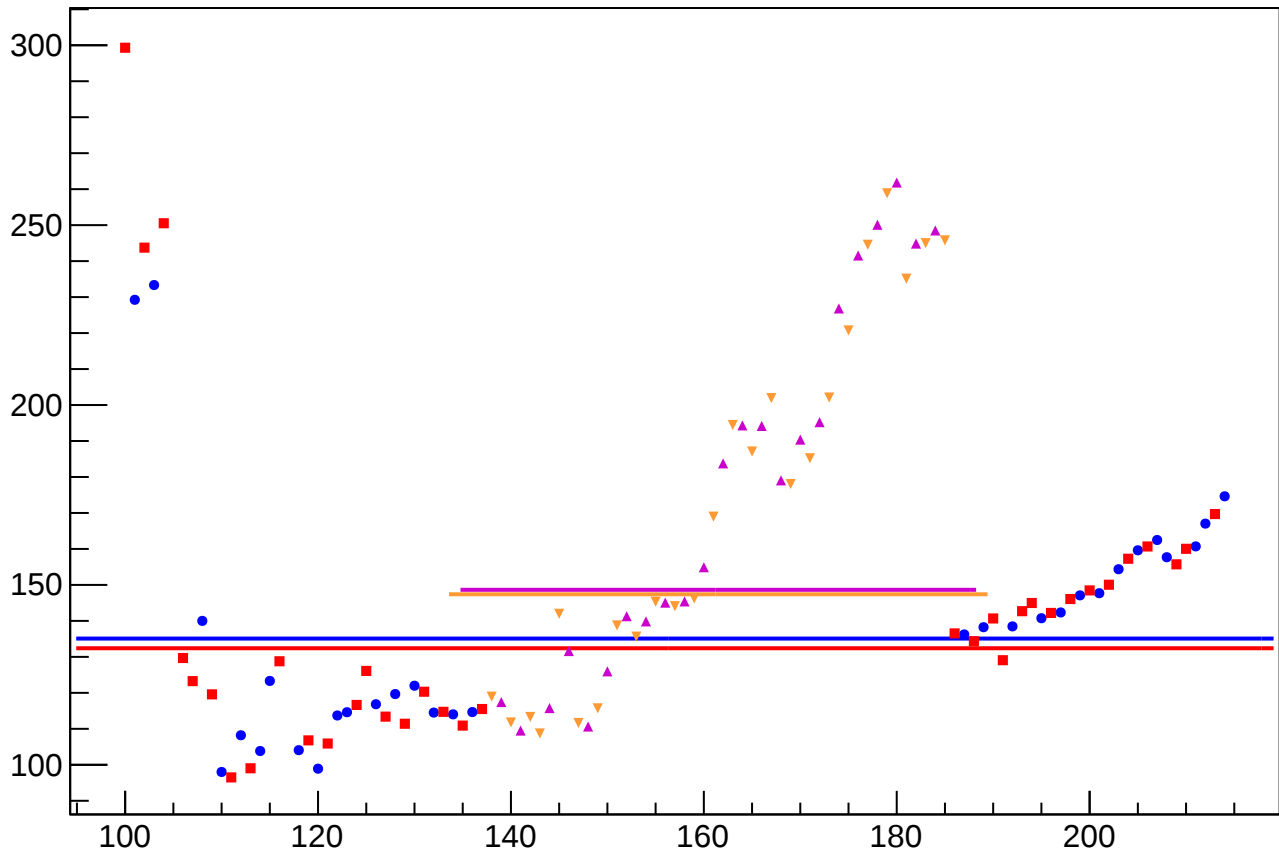
Right: 4856.378+/-23.685 χ^2/NDF : 190519.1/64

In: -1014.266+/-25.165 χ^2/NDF : 147798.3/53

Out: 534.898+/-24.212 χ^2/NDF : 226156.1/58

All: -209.808+/-17.448 χ^2/NDF : 375922.3/111

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 135.090+/-0.024 χ^2/NDF : 1212636.9/30

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

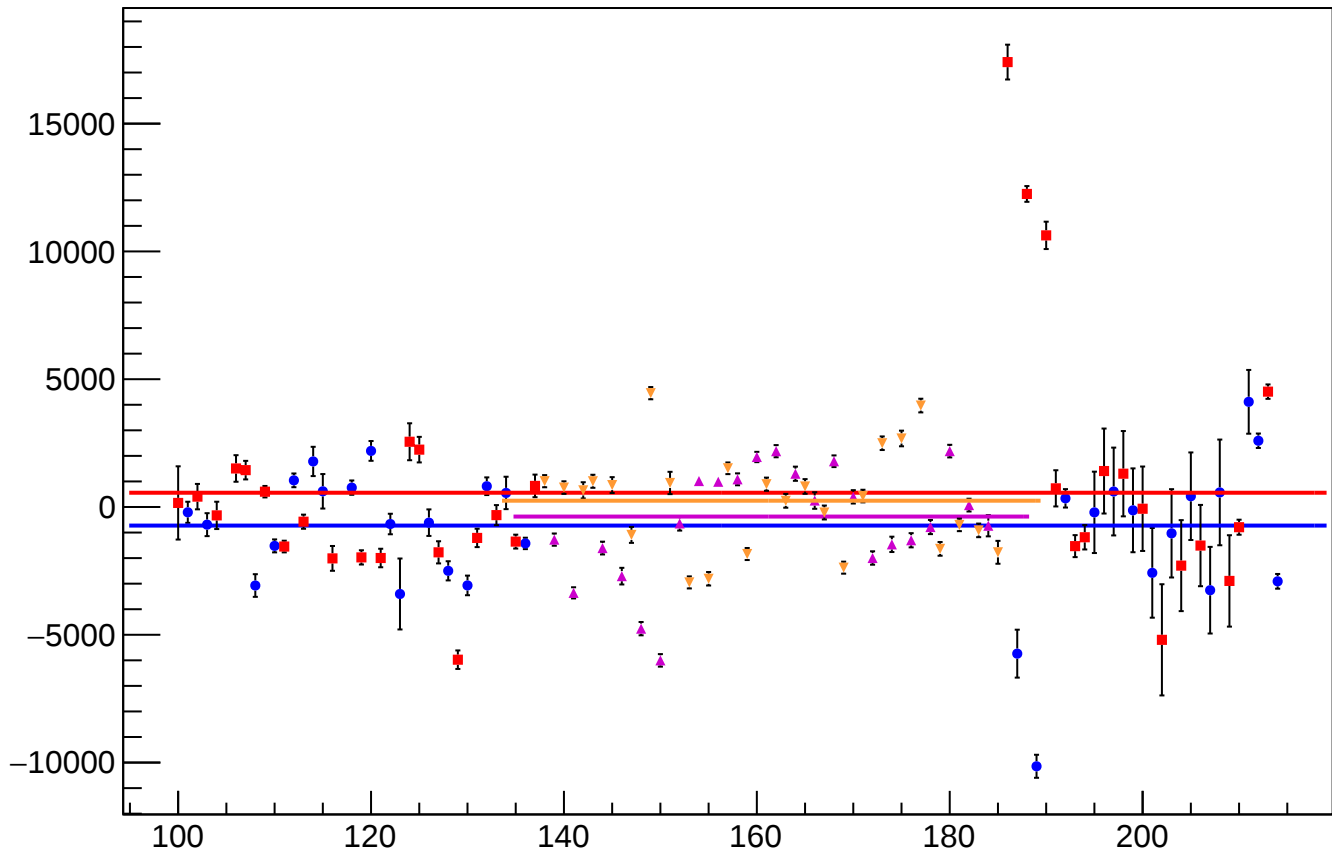
Right: 133.687+/-0.017 χ^2/NDF : 2448942.1/64

In: 141.305+/-0.018 χ^2/NDF : 3772180.1/53

Out: 139.238+/-0.017 χ^2/NDF : 3937420.1/58

All: 140.232+/-0.012 χ^2/NDF : 7716608.6/112

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -727.267 ± 77.441 $\chi^2/\text{NDF}: 976.9/30$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 557.681 ± 70.337 $\chi^2/\text{NDF}: 3398.4/33$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

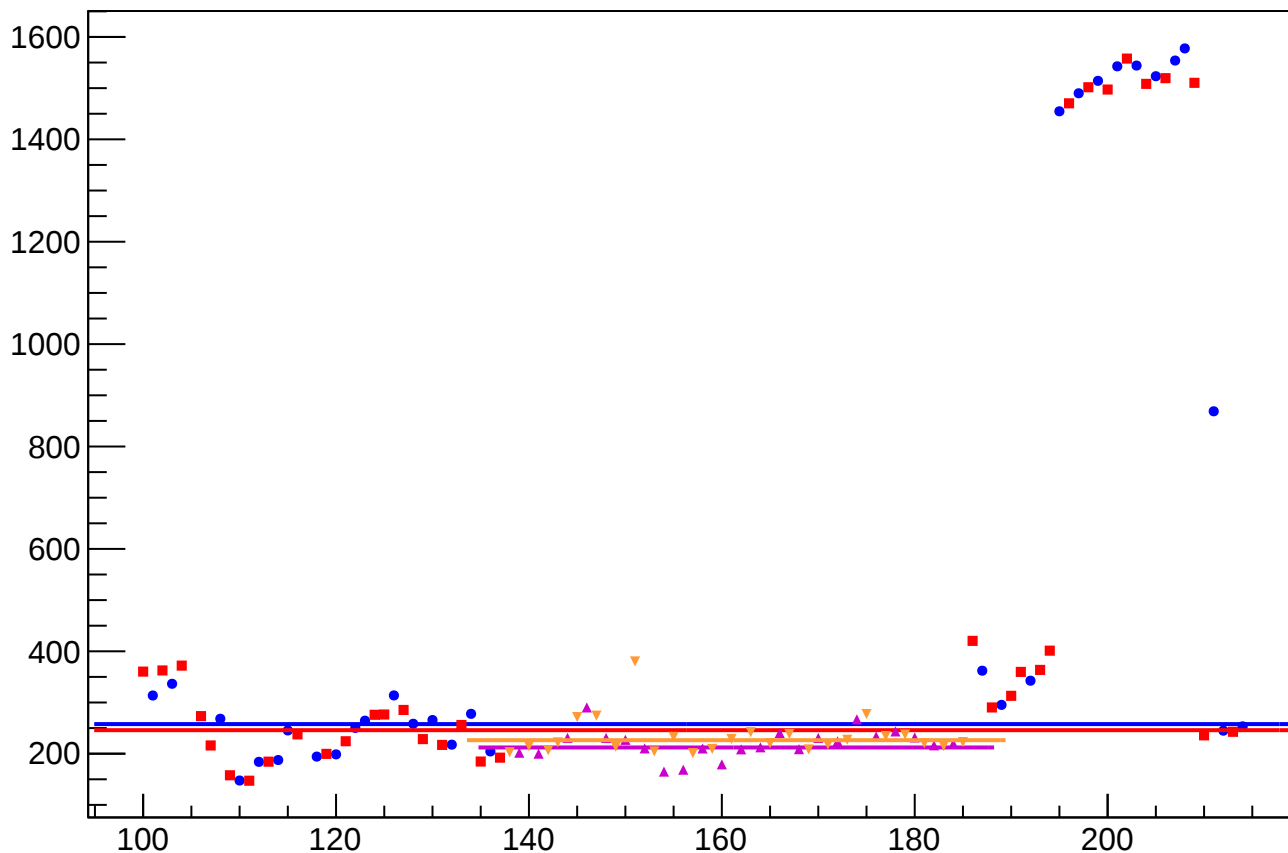
Right: -23.166 ± 52.067 $\chi^2/\text{NDF}: 4526.2/64$

In: -483.789 ± 43.109 $\chi^2/\text{NDF}: 2789.5/53$

Out: 360.285 ± 42.578 $\chi^2/\text{NDF}: 4765.7/58$

All: -56.520 ± 30.293 $\chi^2/\text{NDF}: 7749.2/112$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.802 $\pm$ 0.055 χ^2 /NDF: 10197031.4/30

Left Out: 226.376 $\pm$ 0.038 χ^2 /NDF: 521770.1/24

Right Out: 245.932 $\pm$ 0.050 χ^2 /NDF: 9272612.5/33

Left In: 212.145 $\pm$ 0.037 χ^2 /NDF: 591698.6/22

Left: 219.044 $\pm$ 0.026 χ^2 /NDF: 1186390.8/47

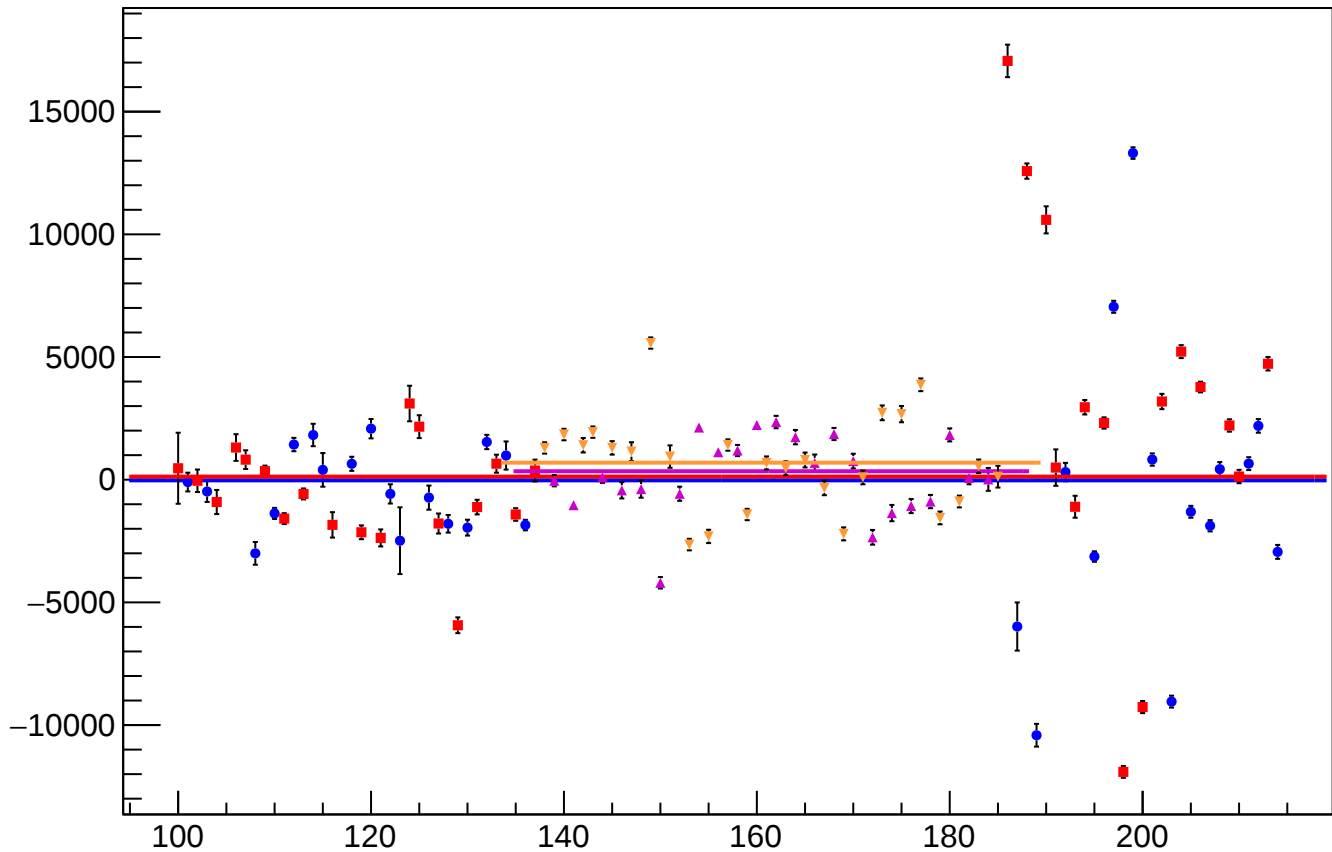
Right: 251.298 $\pm$ 0.037 χ^2 /NDF: 19495392.0/64

In: 226.293 $\pm$ 0.030 χ^2 /NDF: 11268493.9/53

Out: 233.542 $\pm$ 0.030 χ^2 /NDF: 9892337.1/58

All: 229.962 $\pm$ 0.021 χ^2 /NDF: 21189455.2/111

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -26.474 ± 55.042 $\chi^2/\text{NDF}: 6781.1/30$

Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$

Right Out: 125.426 ± 54.213 $\chi^2/\text{NDF}: 8506.8/33$

Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$

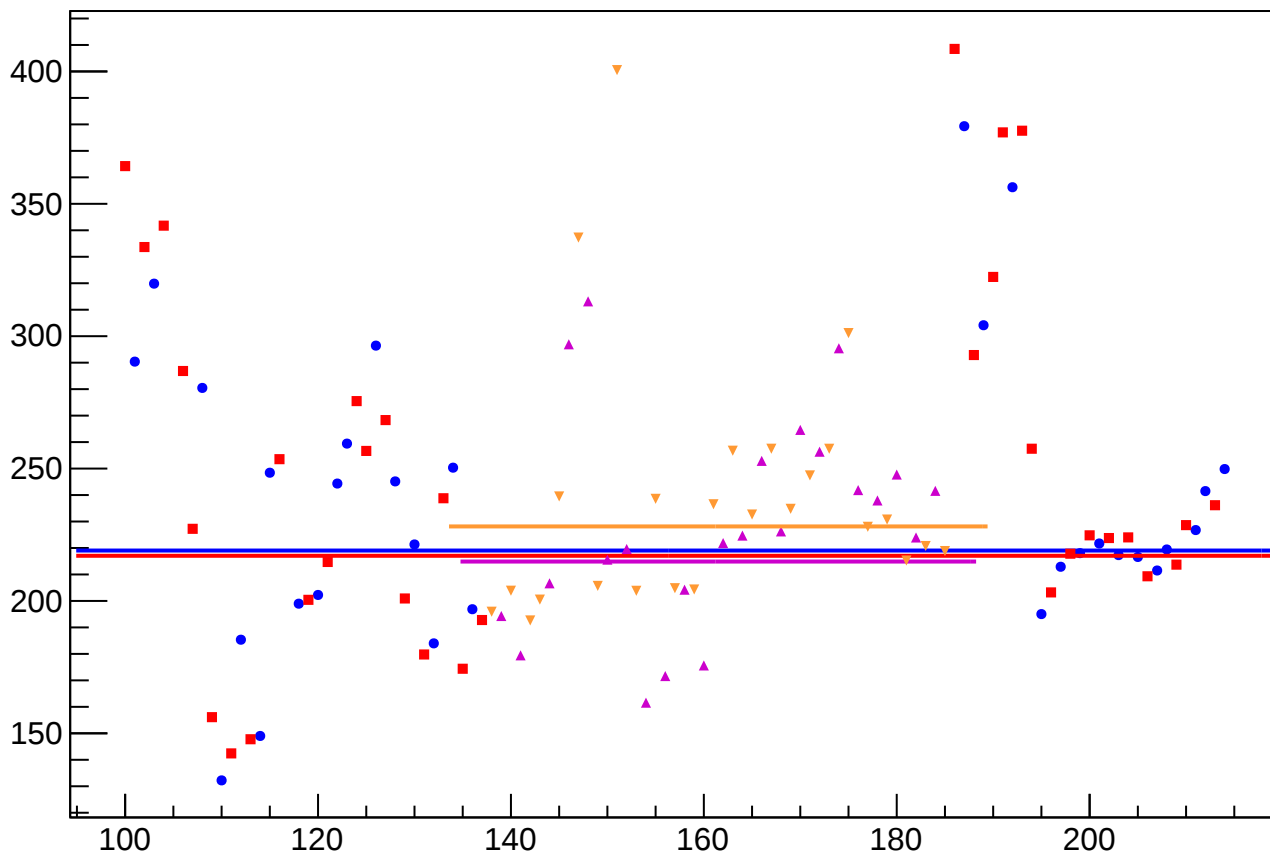
Right: 50.629 ± 38.624 $\chi^2/\text{NDF}: 15291.7/64$

In: 166.225 ± 38.161 $\chi^2/\text{NDF}: 7789.7/53$

Out: 409.699 ± 38.346 $\chi^2/\text{NDF}: 9983.9/58$

All: 287.373 ± 27.049 $\chi^2/\text{NDF}: 17793.8/112$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 219.040 ± 0.039 $\chi^2/\text{NDF}: 1187275.4/30$

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 $\chi^2/\text{NDF}: 1927151.4/47$

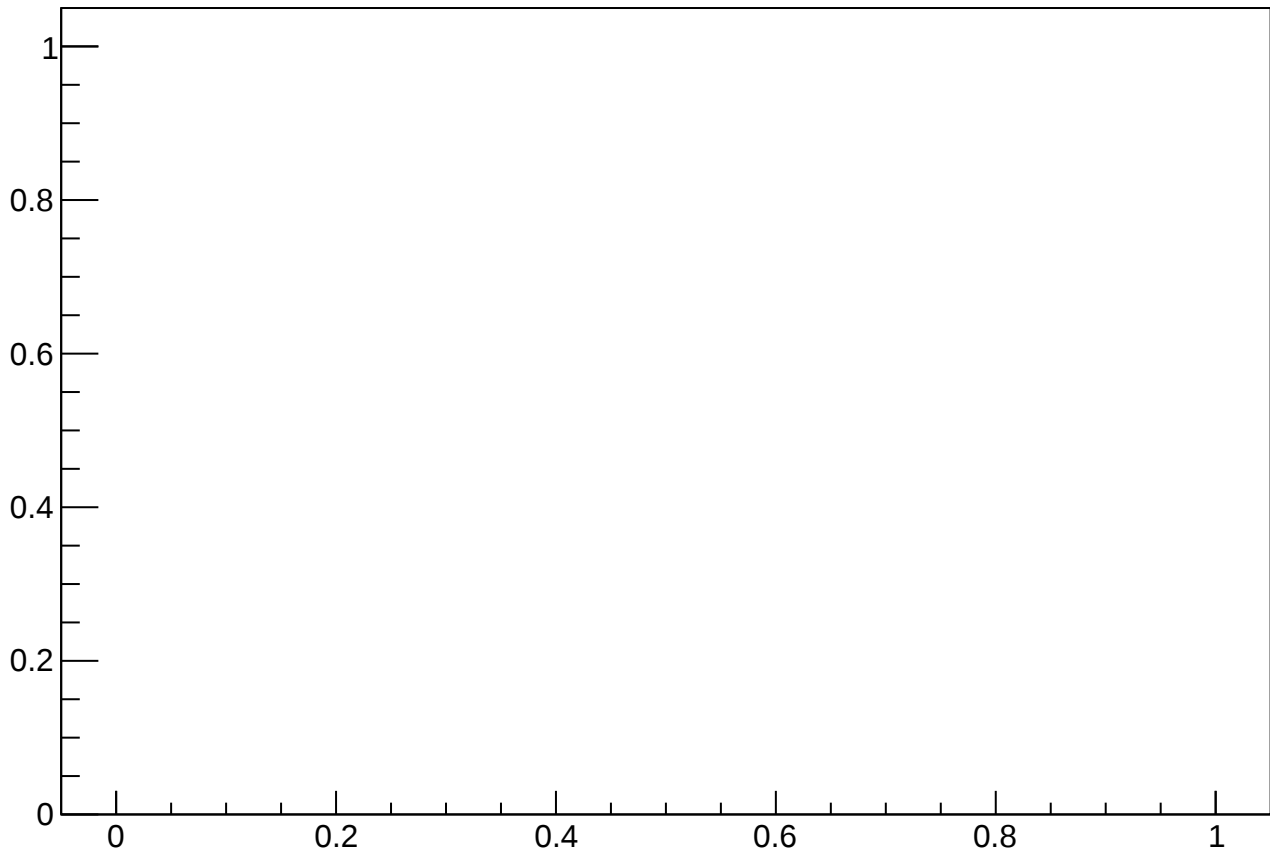
Right: 218.036 ± 0.027 $\chi^2/\text{NDF}: 3024563.1/64$

In: 216.879 ± 0.027 $\chi^2/\text{NDF}: 2230722.7/53$

Out: 222.599 ± 0.027 $\chi^2/\text{NDF}: 2706137.5/58$

All: 219.725 ± 0.019 $\chi^2/\text{NDF}: 4959223.4/112$

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

bcm_an_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

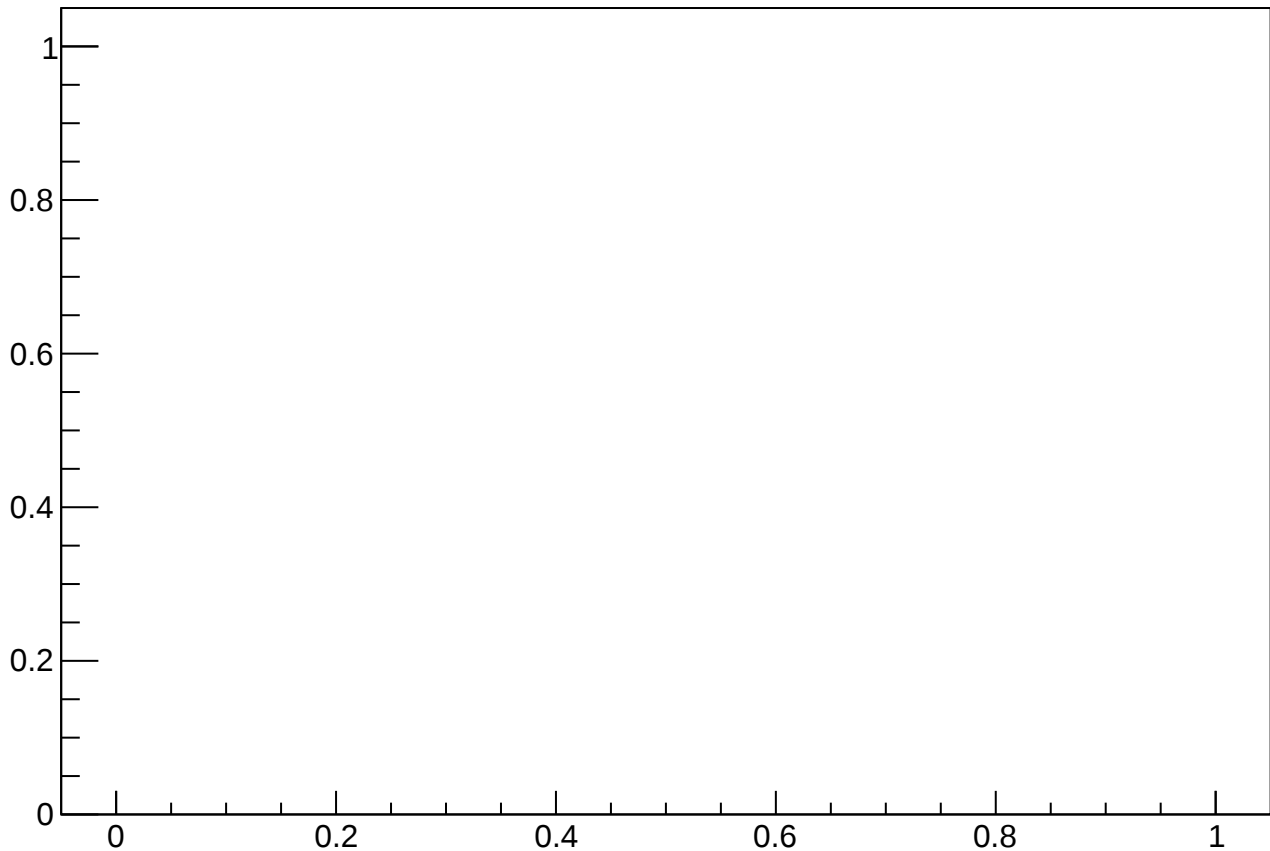
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

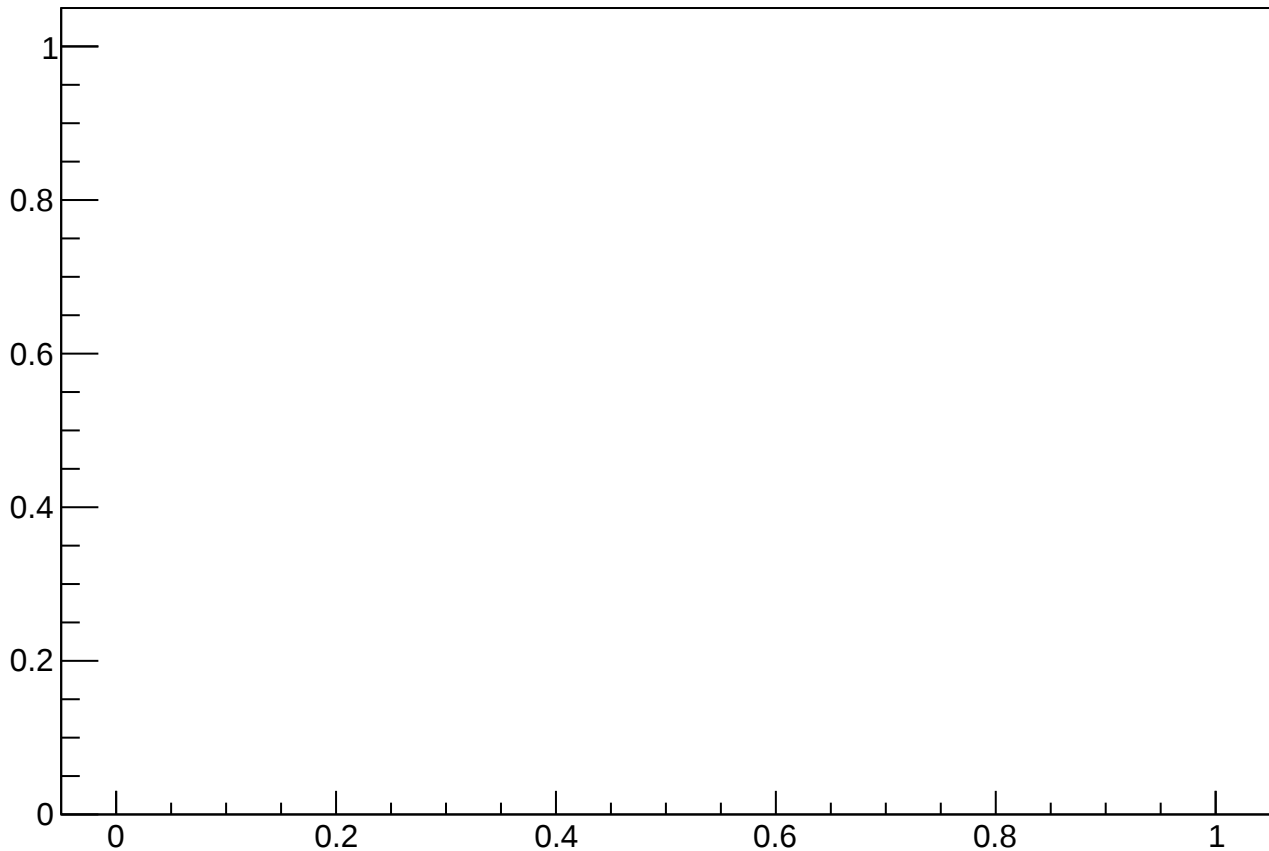
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

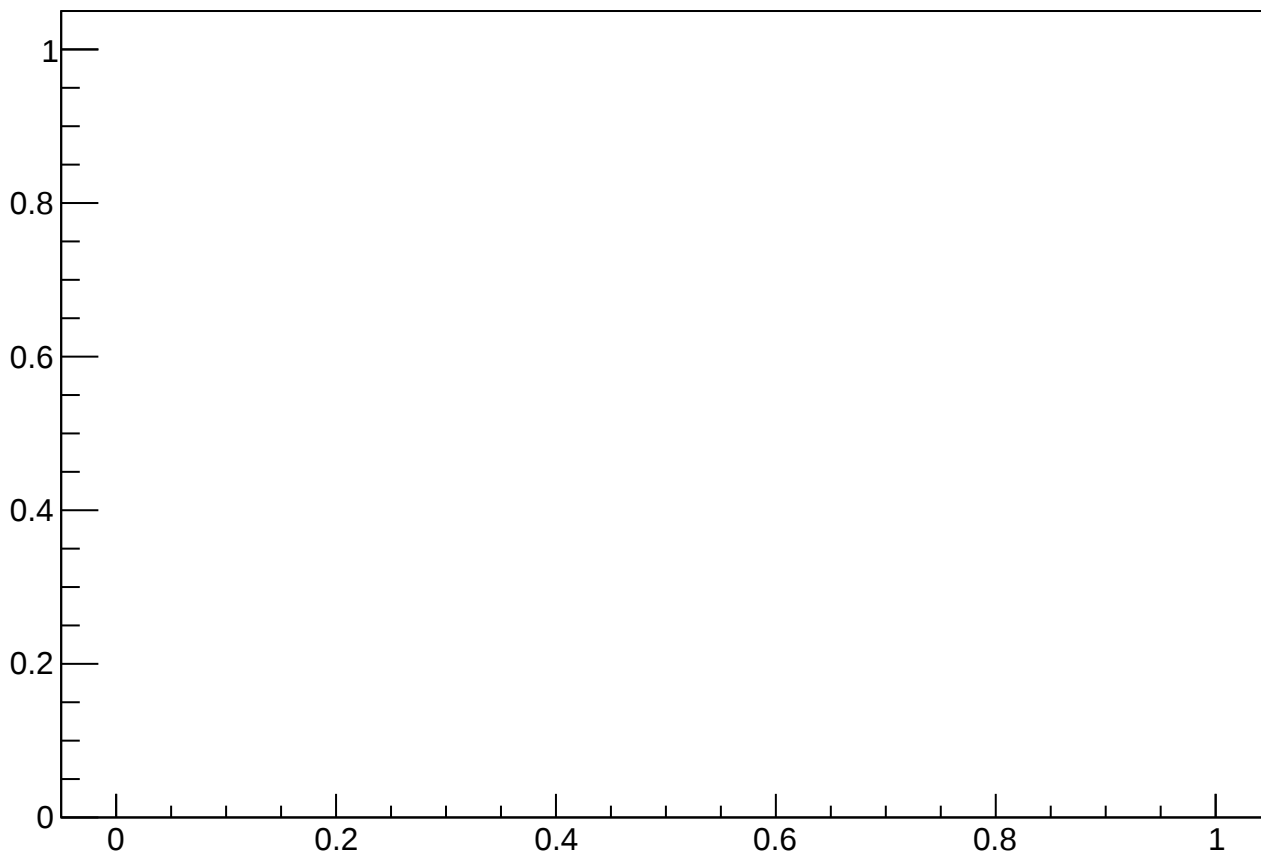
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

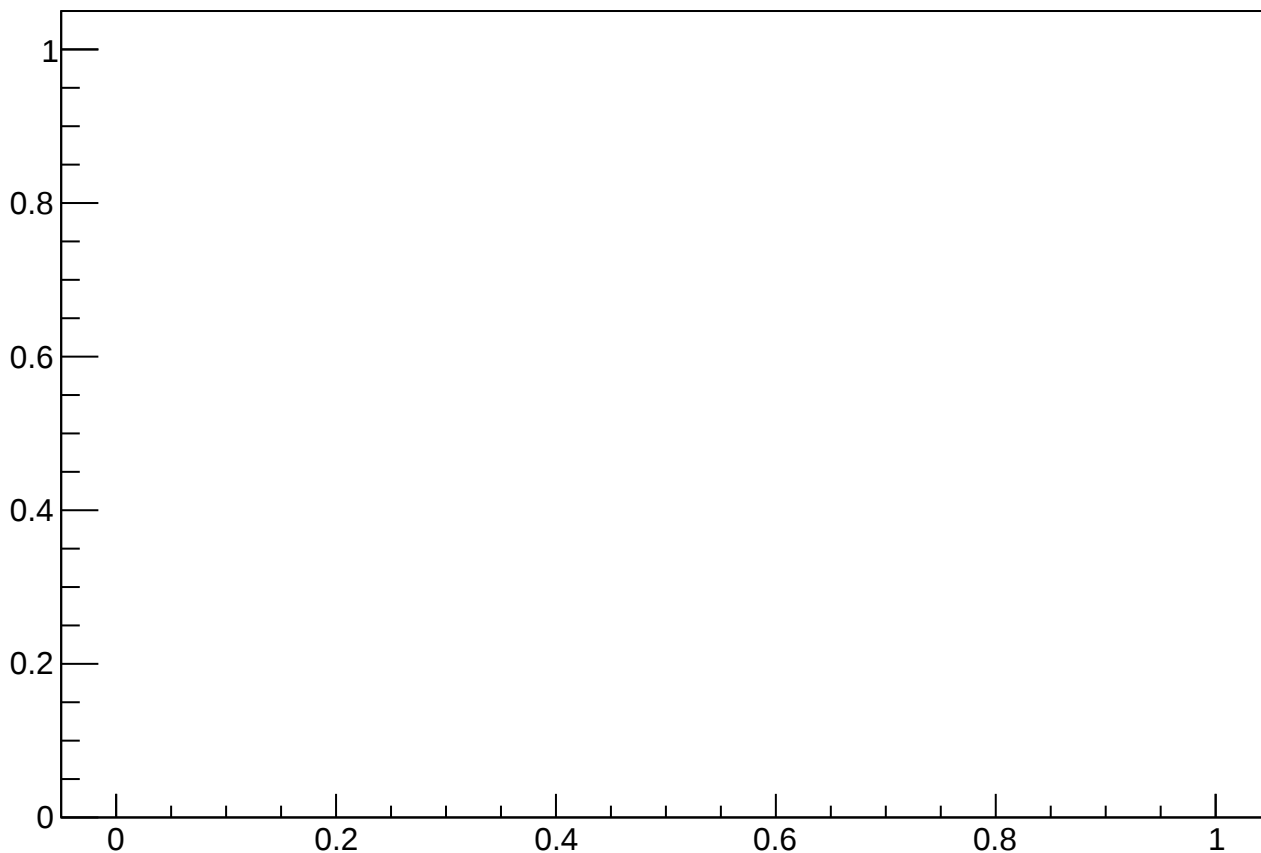
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

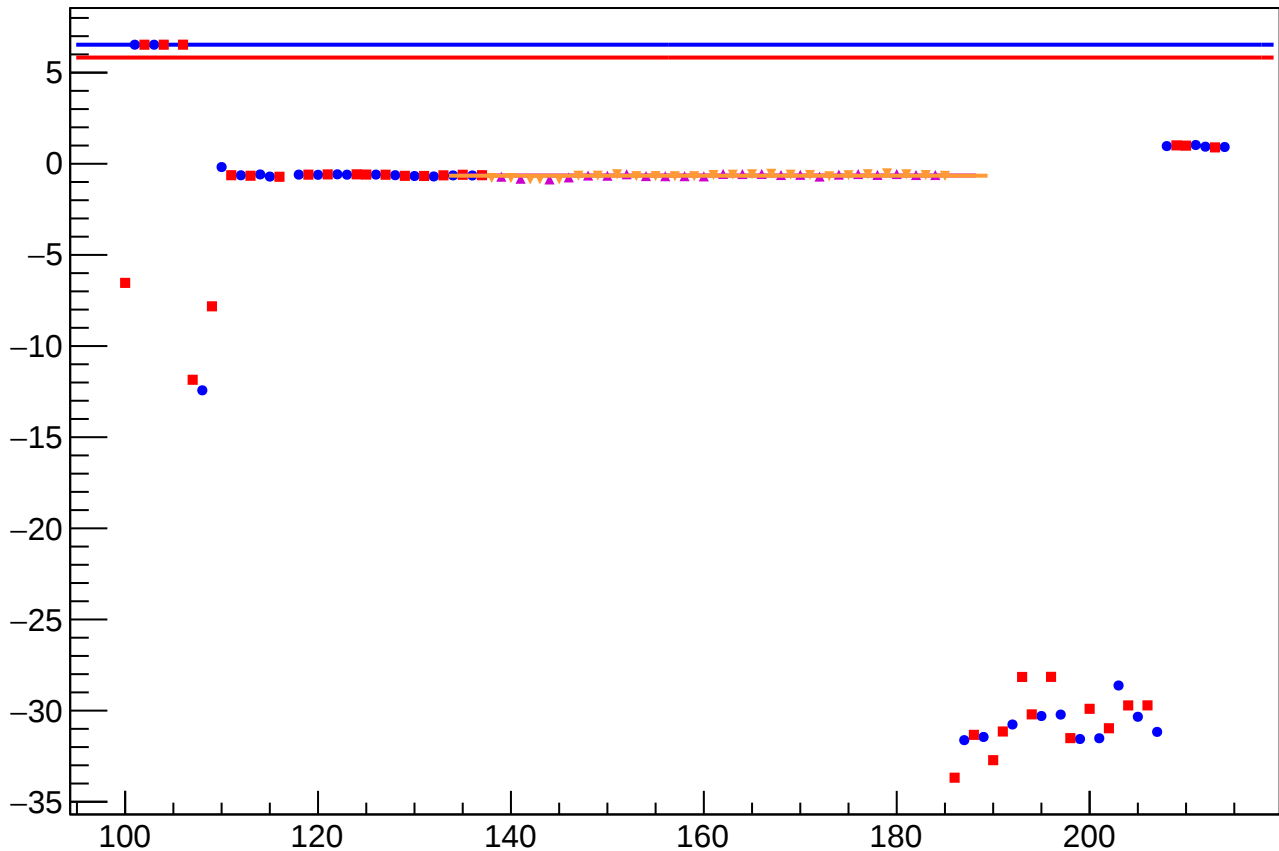
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 135486698868.0/30

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

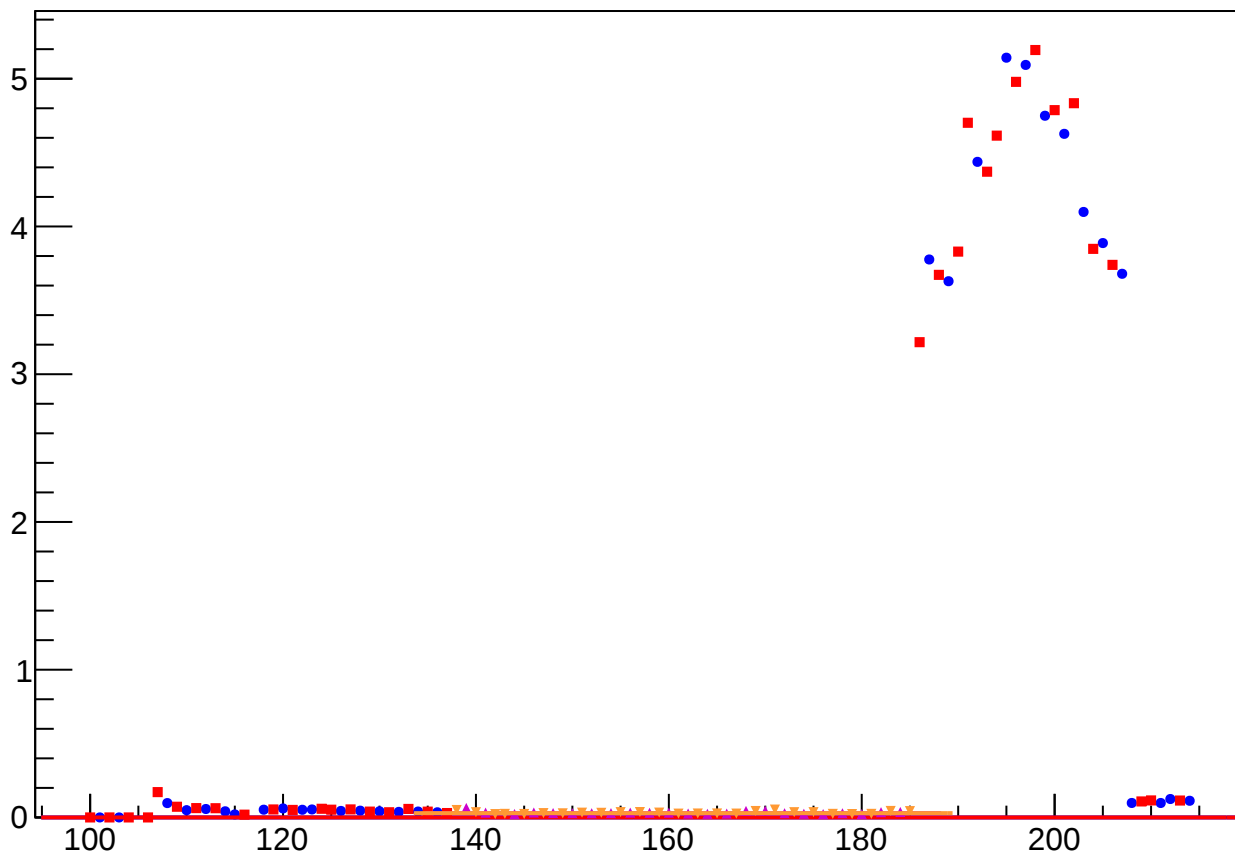
Right: 6.155+/-0.000 χ^2/NDF : 776105330321950.5/47

In: 6.530+/-0.000 χ^2/NDF : 969601183987.1/53

Out: 5.826+/-0.000 χ^2/NDF : 756677324647255.0/53

All: 6.153+/-0.000 χ^2/NDF : 77763875639685.0/100

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 28270438.0/30

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

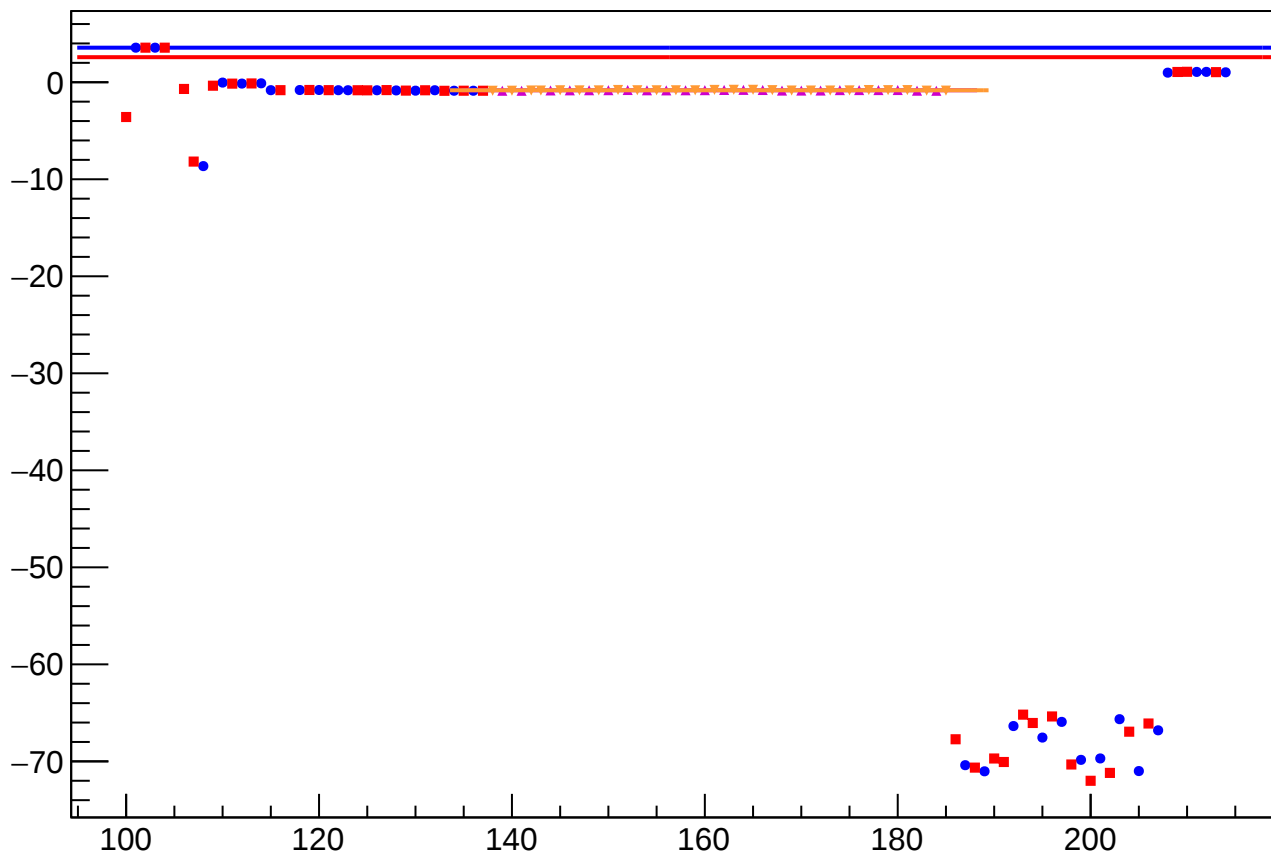
Right: 0.000+/-0.000 χ^2/NDF : 57296660.9/64

In: 0.000+/-0.000 χ^2/NDF :56447592.8/53

Out: 0.000+/-0.000 χ^2/NDF :58993547.7/58

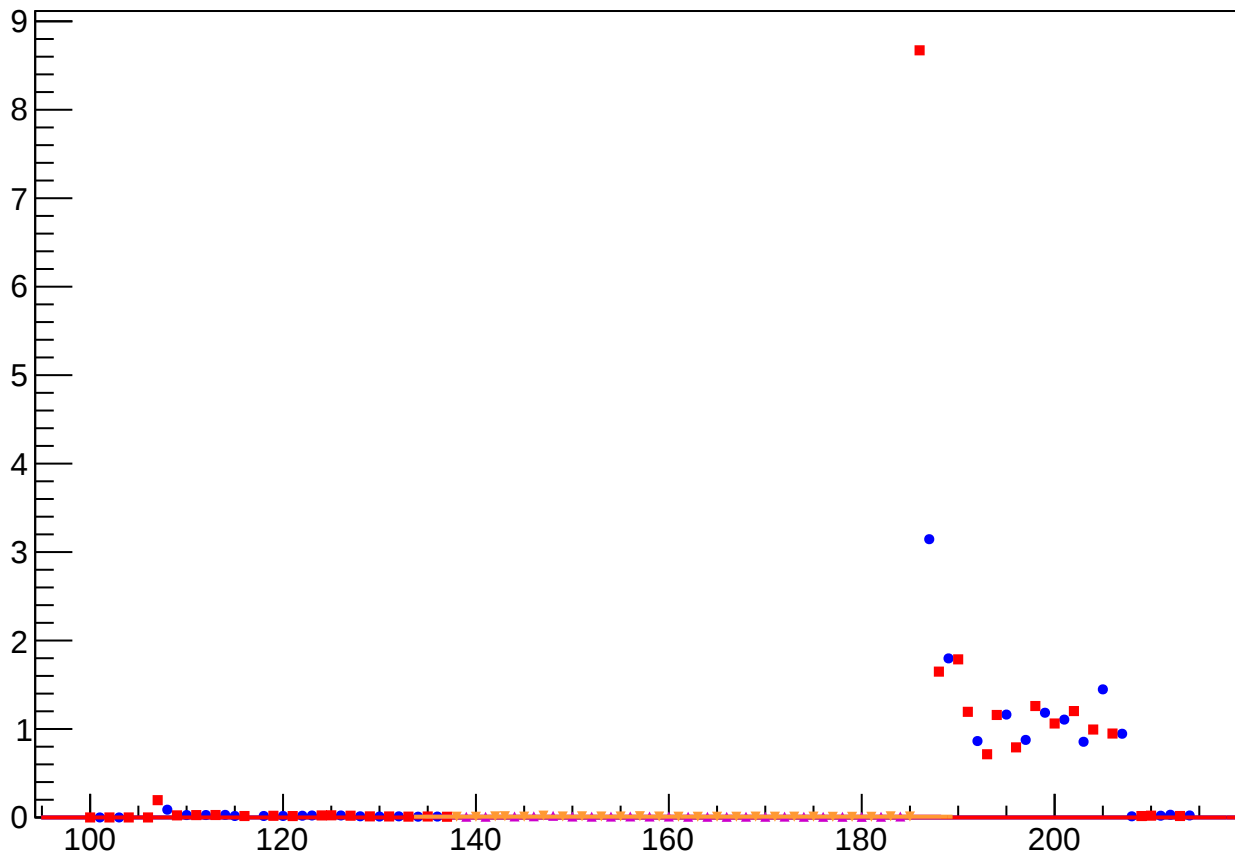
All: 0.000+/-0.000 χ^2/NDF : 115441615.2/112

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 546958603408.7/30	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 : 1382359455665500.7
Right Out: 2.583+/-0.000	χ^2/NDF : 1253545808410849.0/33	In: 3.560+/-0.000	χ^2/NDF : 4227411972685.8/53
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 : 13880838738268.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 25868758.7/30

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

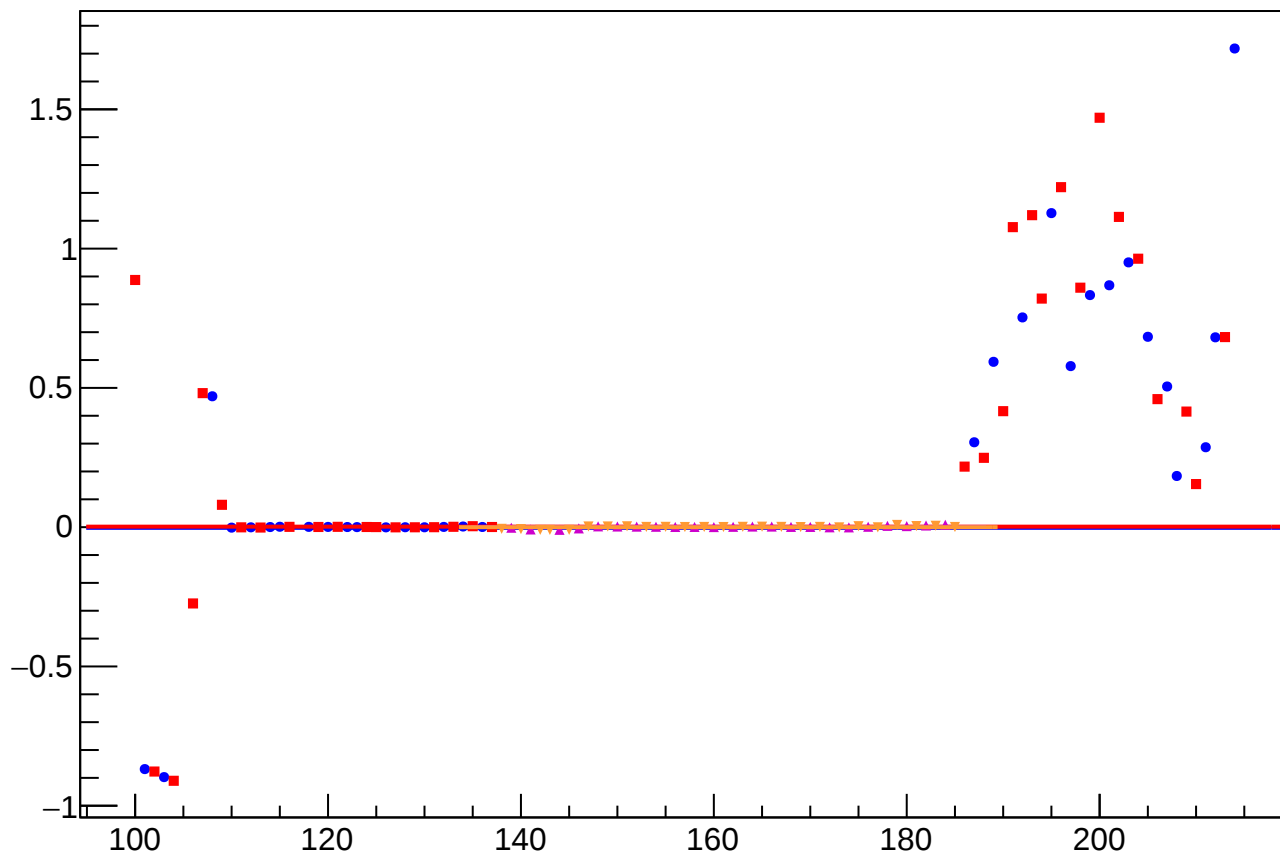
Right: 0.000+/-0.000 χ^2/NDF : 52792965.9/64

In: 0.000+/-0.000 χ^2/NDF :55662806.4/53

Out: 0.000+/-0.000 χ^2/NDF :58439338.2/58

All: 0.000+/-0.000 χ^2/NDF : 114102988.5/112

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796914510.7/30

Left: 0.000+/-0.000 χ^2/NDF : 254489625.0/47

Left Out: -0.000+/-0.000

χ^2/NDF : 151559332.0/24

Right: -0.000+/-0.000 χ^2/NDF : 12854797185.4/64

Right Out: 0.002+/-0.000

χ^2/NDF : 3043735807.3/33

In: -0.000+/-0.000 χ^2/NDF : 9909819761.8/53

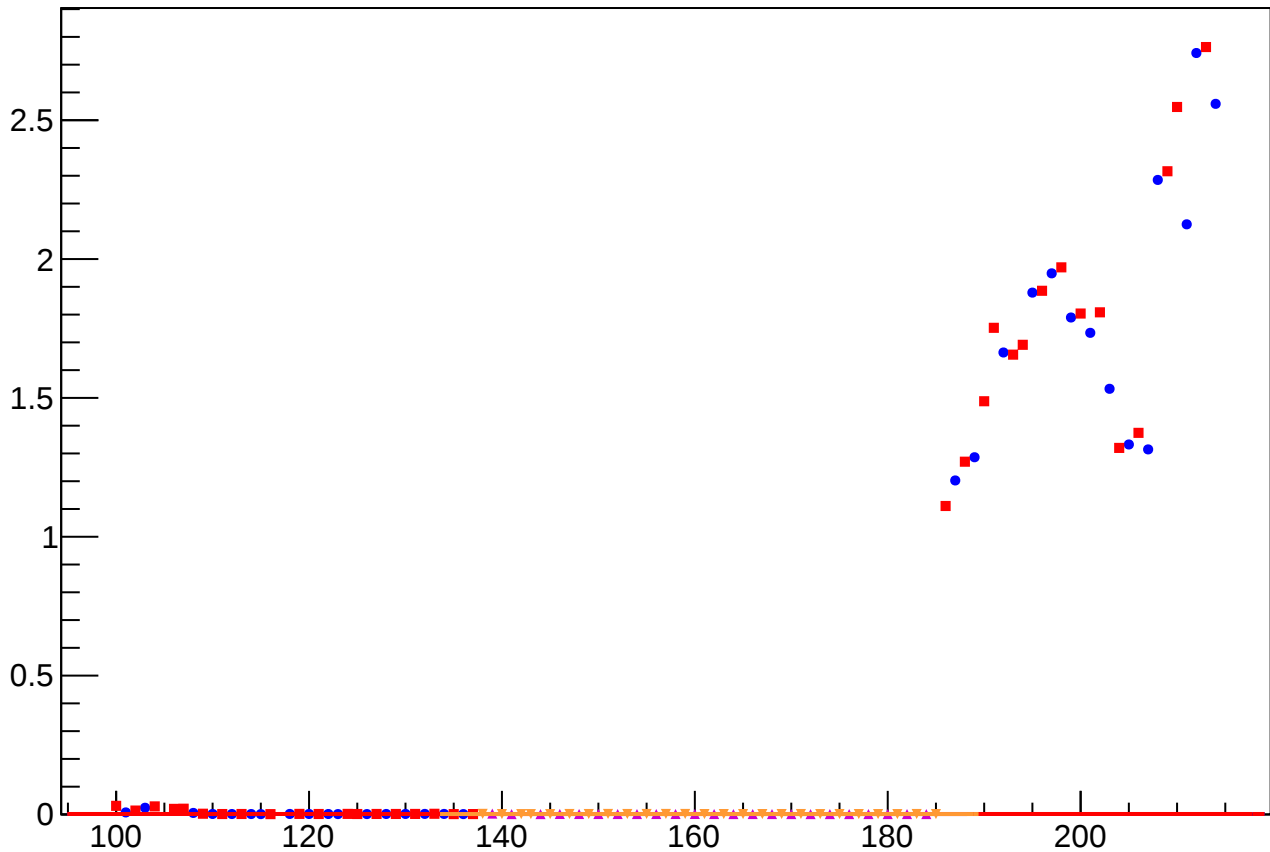
Out: 0.000+/-0.000 χ^2/NDF : 3199974280.9/58

Left In: 0.001+/-0.000

χ^2/NDF : 101468517.6/22

All: 0.000+/-0.000 χ^2/NDF : 13110165479.9/1

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 21324937.0/30

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

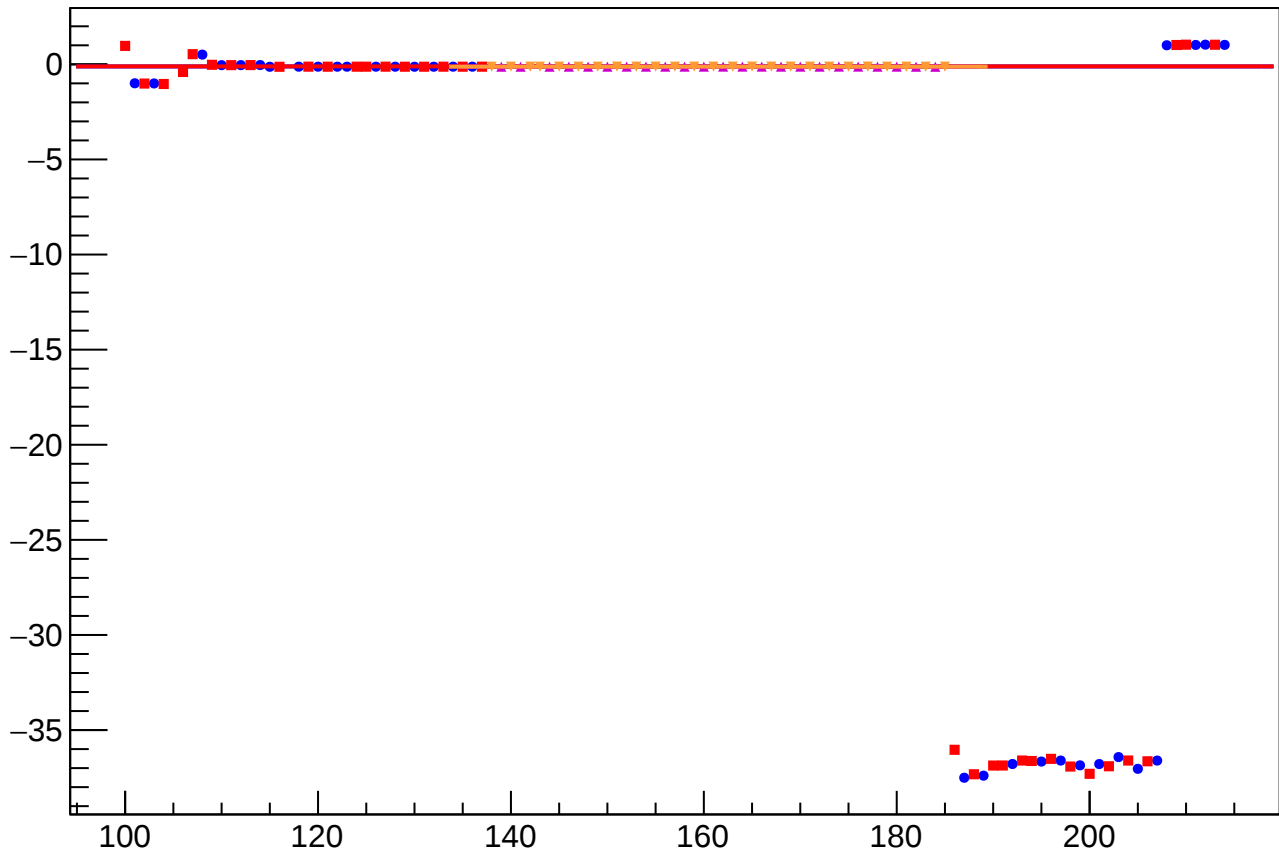
Right: 0.002+/-0.000 χ^2/NDF : 44029713.7/64

In: 0.002+/-0.000 χ^2/NDF :22037928.8/53

Out: 0.002+/-0.000 χ^2/NDF :23373204.1/58

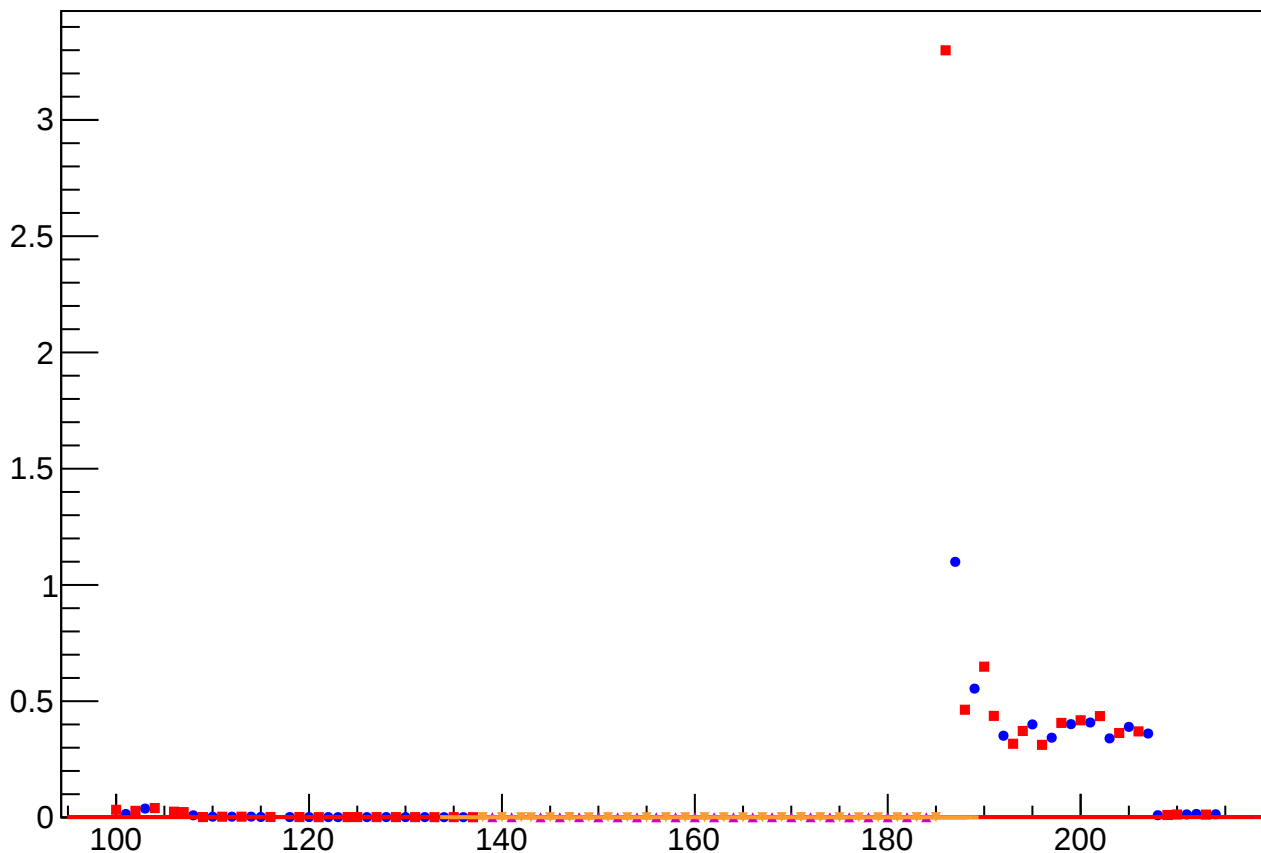
All: 0.002+/-0.000 χ^2/NDF : 45411770.4/112

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.111+/-0.000	χ^2/NDF : 87457956192.1/30	Left: -0.121+/-0.000	χ^2/NDF : 111705307.2/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58329026.8/24	Right: -0.109+/-0.000	χ^2/NDF : 175239872253.4/64
Right Out: -0.107+/-0.000	χ^2/NDF : 87770038442.9/33	In: -0.120+/-0.000	χ^2/NDF : 87681248604.3/53
Left In: -0.121+/-0.000	χ^2/NDF : 53134323.3/22	Out: -0.120+/-0.000	χ^2/NDF : 88151514867.1/58
		All: -0.120+/-0.000	χ^2/NDF : 175832939970.0

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 20281775.3/30

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

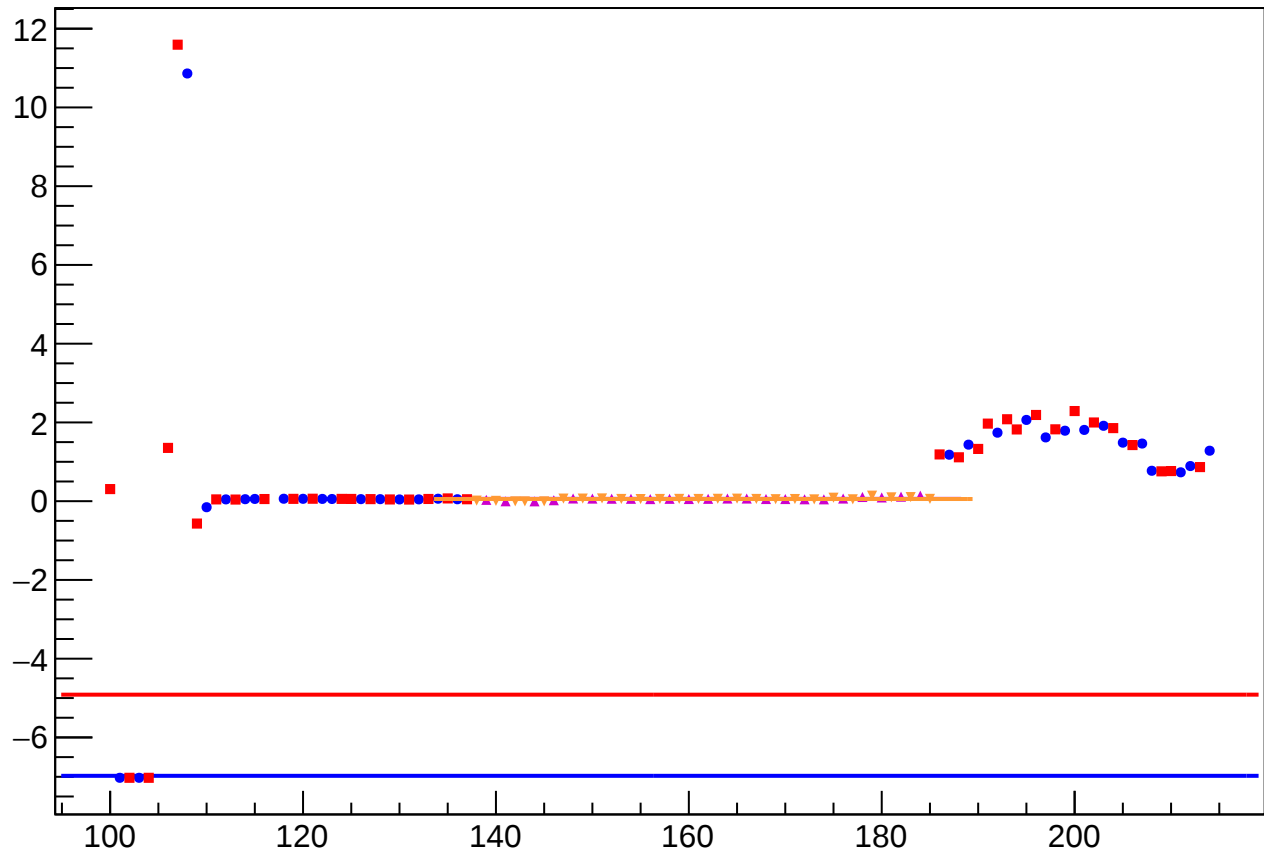
Right: 0.002+/-0.000 χ^2/NDF : 41899470.5/64

In: 0.001+/-0.000 χ^2/NDF :22838519.6/53

Out: 0.001+/-0.000 χ^2/NDF :24513798.7/58

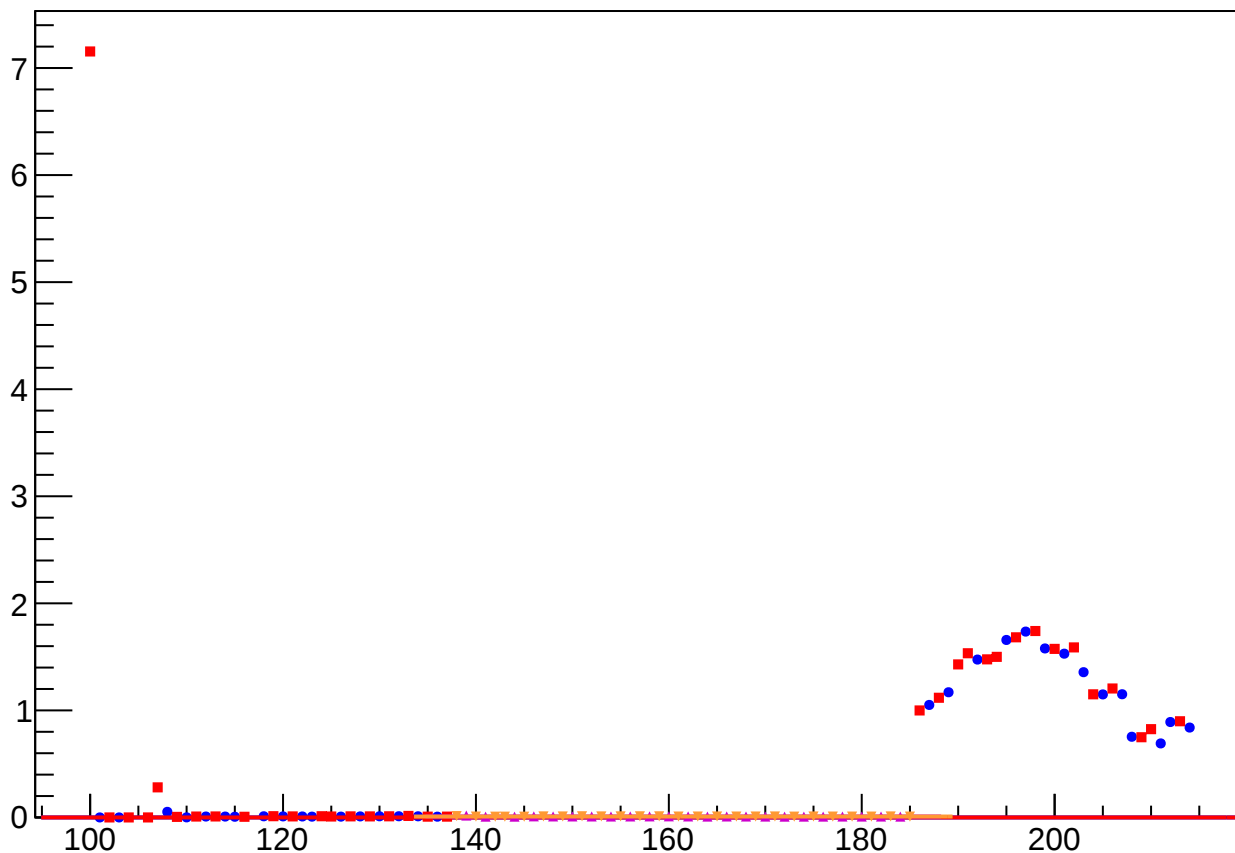
All: 0.001+/-0.000 χ^2/NDF : 47355490.5/112

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8763000081214.3/30
 Left Out: 0.055+/-0.000 χ^2/NDF : 243733184.3/24
 Right Out: -4.914+/-0.000 χ^2/NDF : 365348816745207.2/33
 Left In: 0.059+/-0.000 χ^2/NDF : 178713649.9/22
 Left: 0.057+/-0.000 χ^2/NDF : 423872259.5/47
 Right: -5.900+/-0.000 χ^2/NDF : 430303986662187.9
 In: -6.925+/-0.000 χ^2/NDF : 17605522401921.1/53
 Out: -4.879+/-0.000 χ^2/NDF : 370175501767296.6
 All: -5.858+/-0.000 χ^2/NDF : 4435819449732

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 27655063.4/30

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

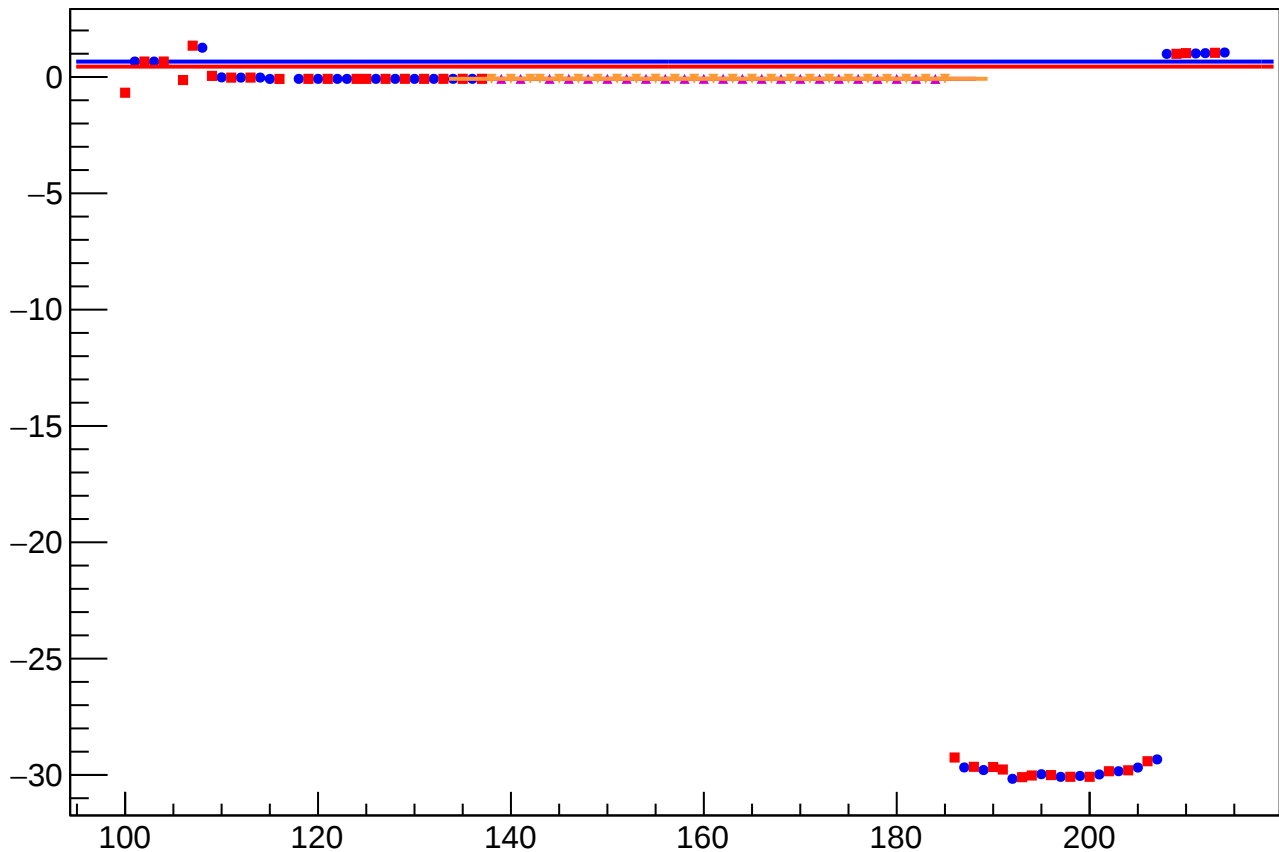
Right: 0.000+/-0.000 χ^2/NDF : 56114345.3/64

In: 0.000+/-0.000 χ^2/NDF : 55290617.8/53

Out: 0.000+/-0.000 χ^2/NDF : 57486111.7/58

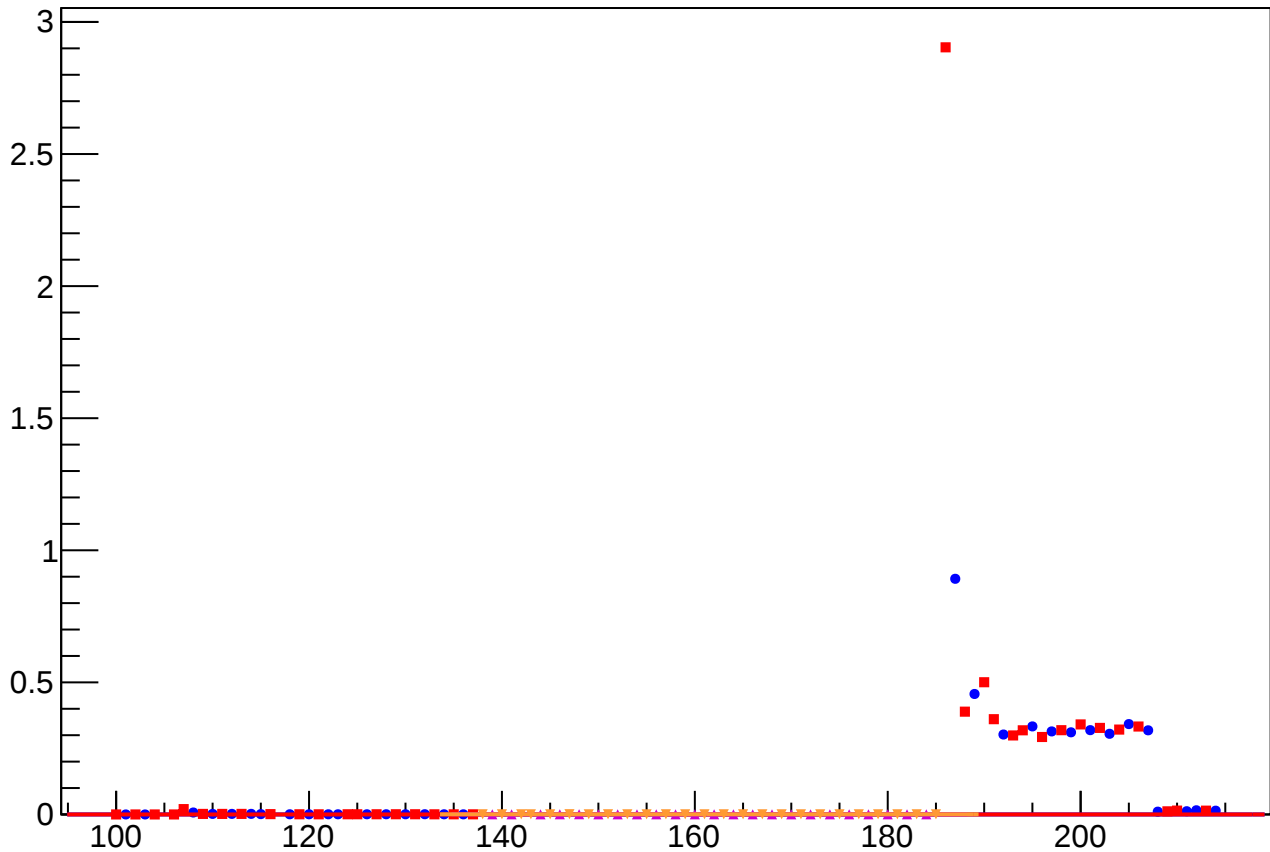
All: 0.000+/-0.000 χ^2/NDF : 112777230.7/112

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5647852176946.6/30	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 : 474059904548101.3
Right Out: 0.446+/-0.000	χ^2/NDF : 405482589419391.6/33	In: 0.647+/-0.000	χ^2/NDF : 33907959545662.2/53
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420677290648820.8/5
		All: 0.537+/-0.000	χ^2/NDF : 51611019015083

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 29033044.6/30

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

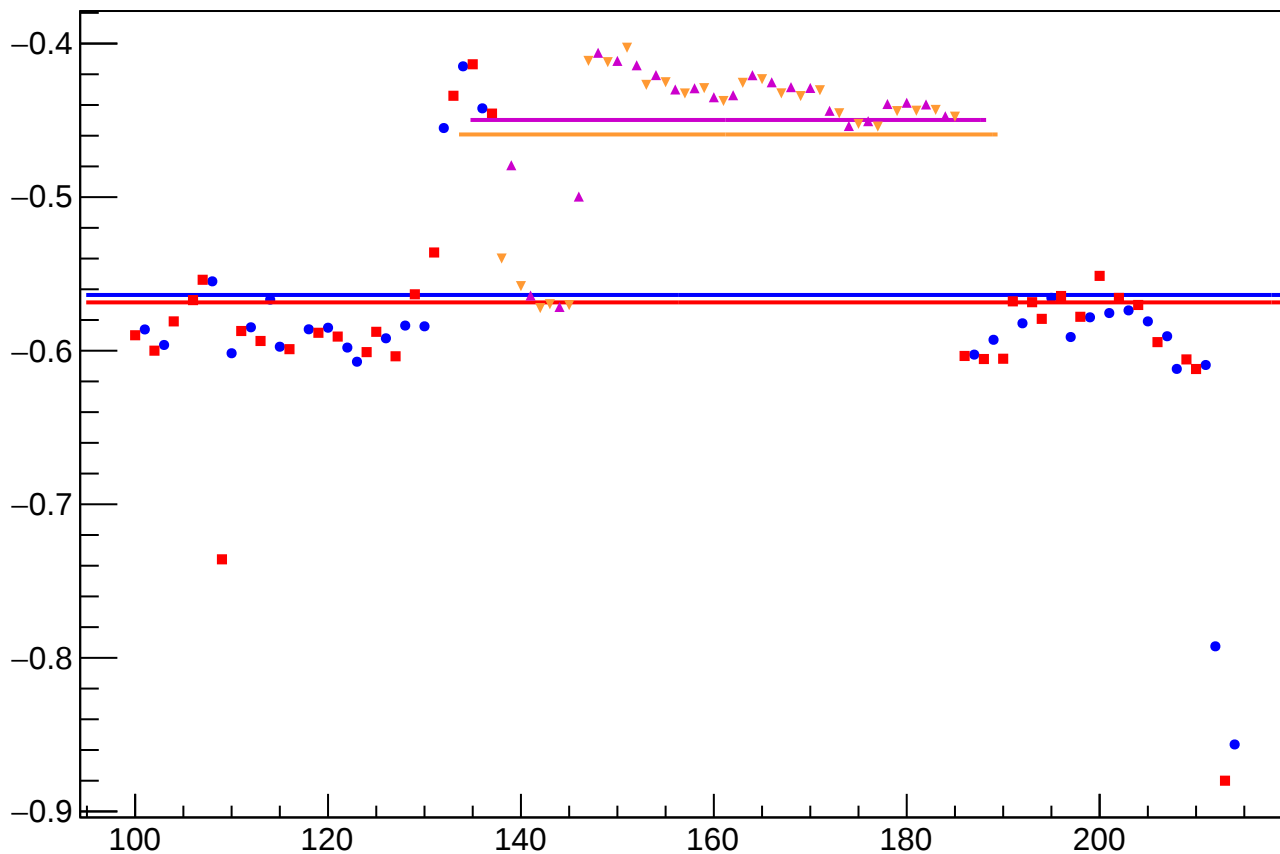
Right: 0.000+/-0.000 χ^2/NDF : 58061915.0/64

In: 0.000+/-0.000 χ^2/NDF : 60002159.8/53

Out: 0.000+/-0.000 χ^2/NDF : 61736047.8/58

All: 0.000+/-0.000 χ^2/NDF : 121738662.8/112

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.564 $\pm$ 0.000 χ^2 /NDF: 86098835.3/30

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

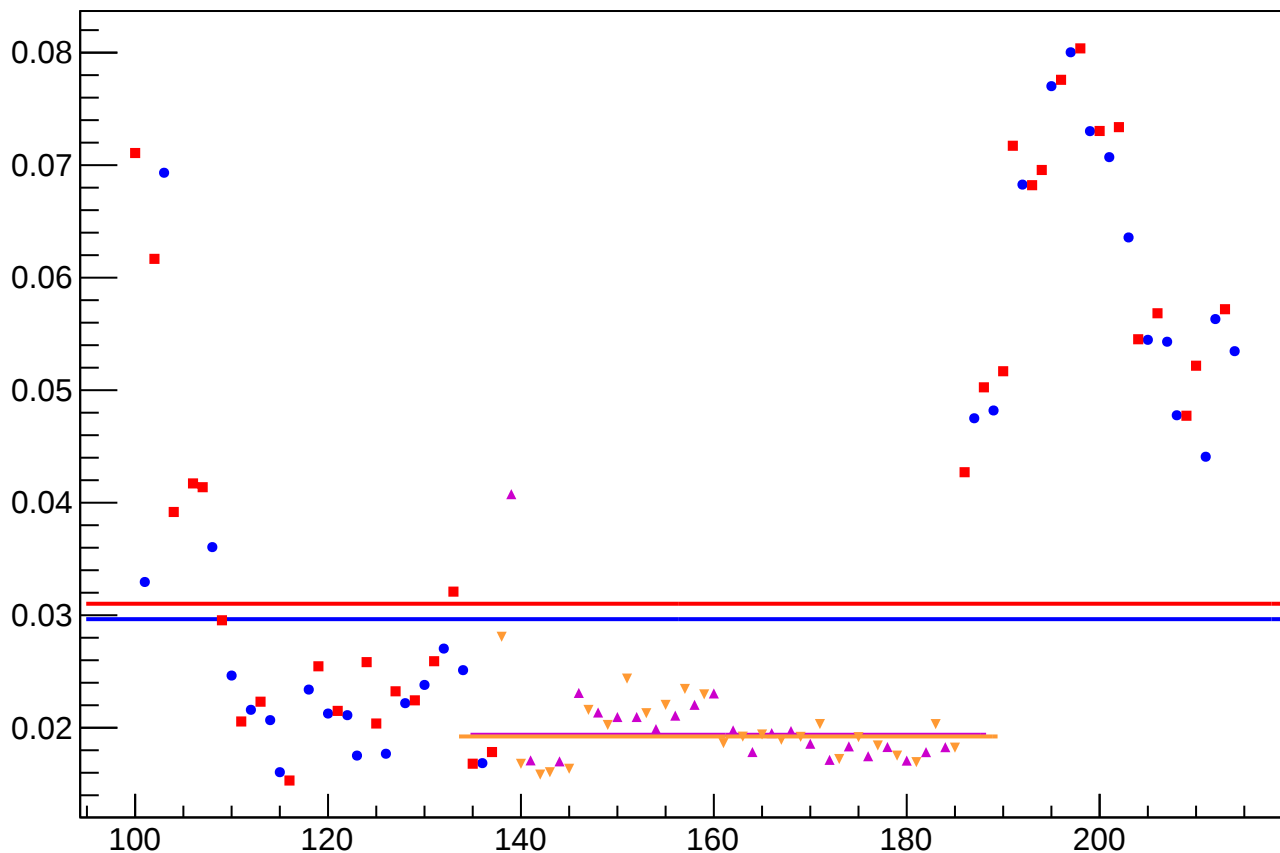
Right: -0.566 $\pm$ 0.000 χ^2 /NDF: 174736160.4/64

In: -0.479 $\pm$ 0.000 χ^2 /NDF: 289027909.3/53

Out: -0.485 $\pm$ 0.000 χ^2 /NDF: 317170293.0/58

All: -0.482 $\pm$ 0.000 χ^2 /NDF: 607068760.3/111

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 7241203.5/30

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

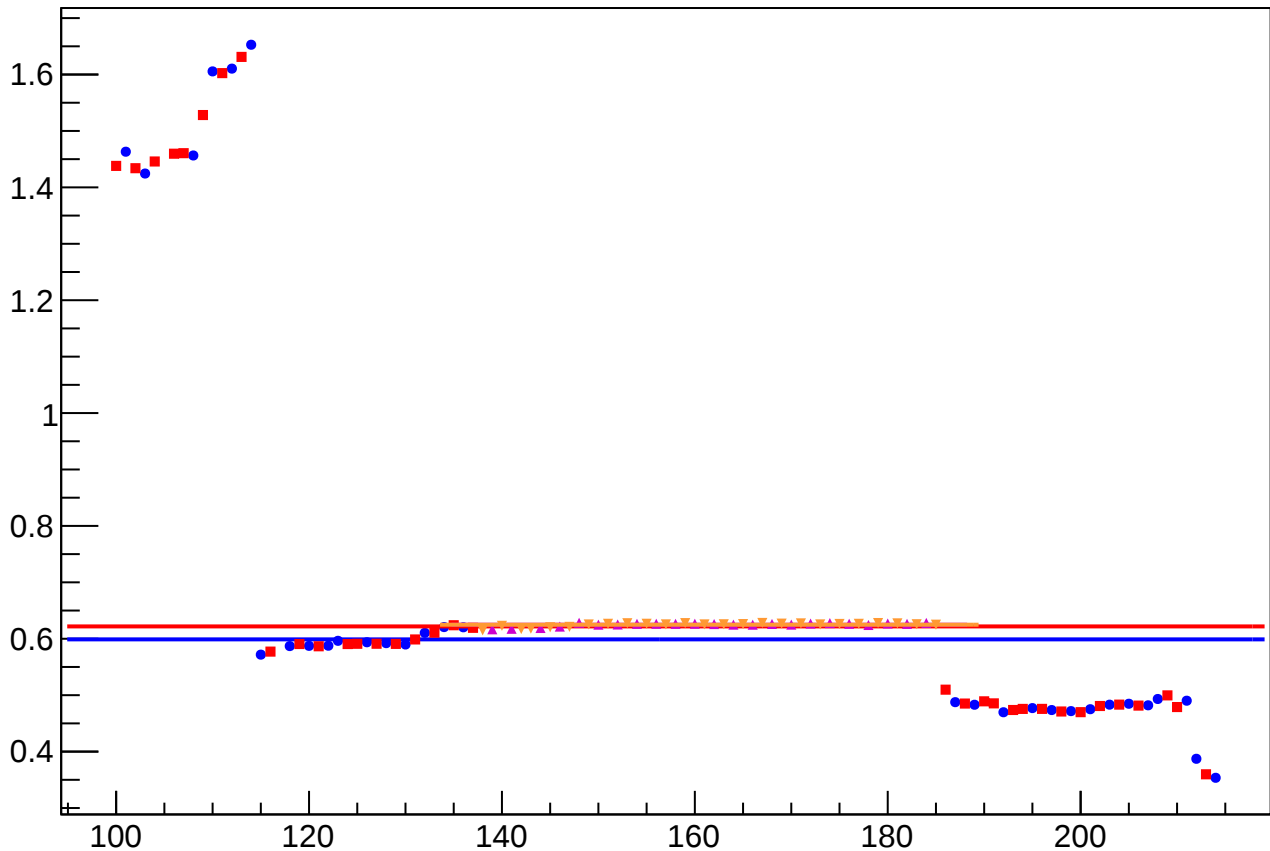
Right: 0.030+/-0.000 χ^2/NDF : 14450295.6/64

In: 0.022+/-0.000 χ^2/NDF : 9958450.4/53

Out: 0.022+/-0.000 χ^2/NDF : 10359478.9/58

All: 0.022+/-0.000 χ^2/NDF : 20317944.6/112

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.599 $\pm$ 0.000 χ^2 /NDF: 5361385629.6/30

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

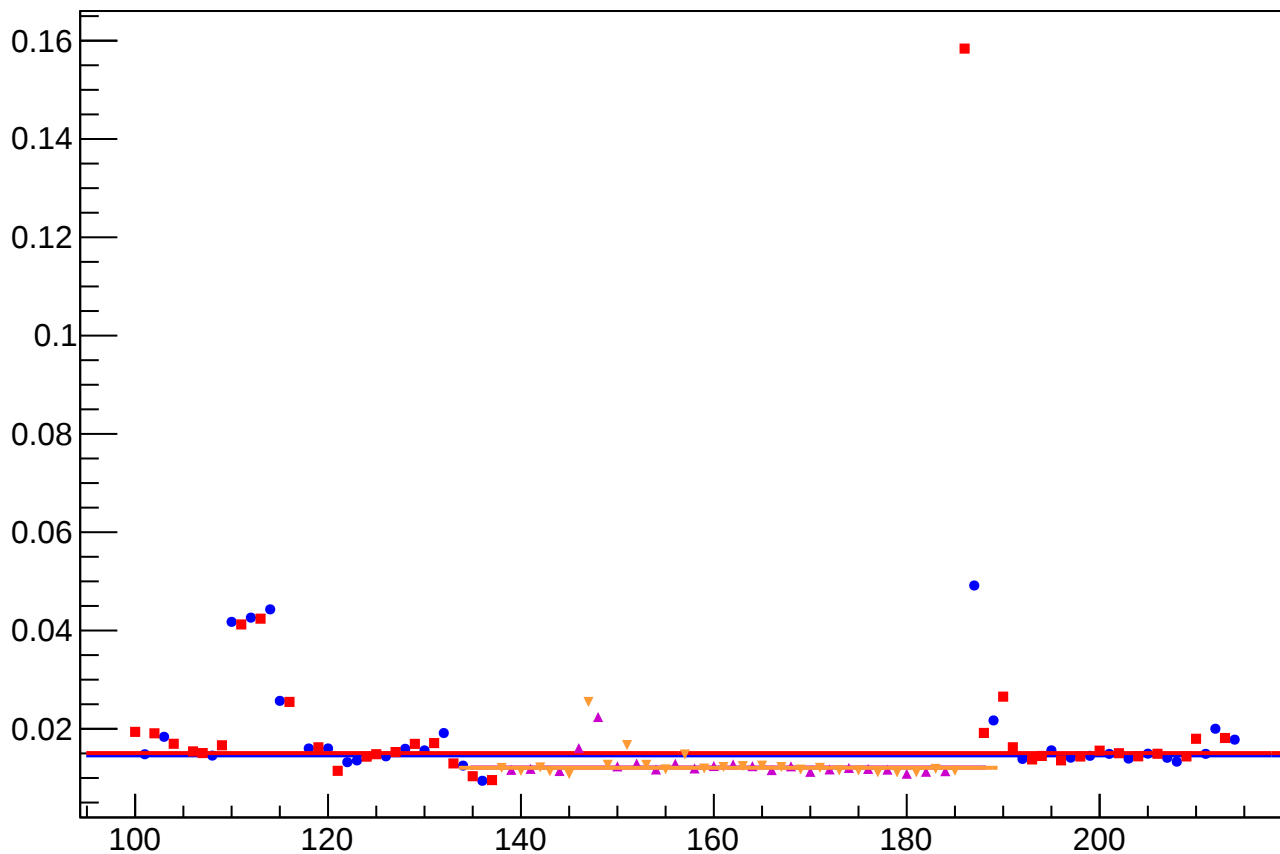
Right: 0.610 $\pm$ 0.000 χ^2 /NDF: 11700613739.0/64

In: 0.615 $\pm$ 0.000 χ^2 /NDF:5391758042.6/53

Out: 0.624 $\pm$ 0.000 χ^2 /NDF:6322905044.3/58

All: 0.619 $\pm$ 0.000 χ^2 /NDF: 11721995324.7/113

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 1817126.3/30

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

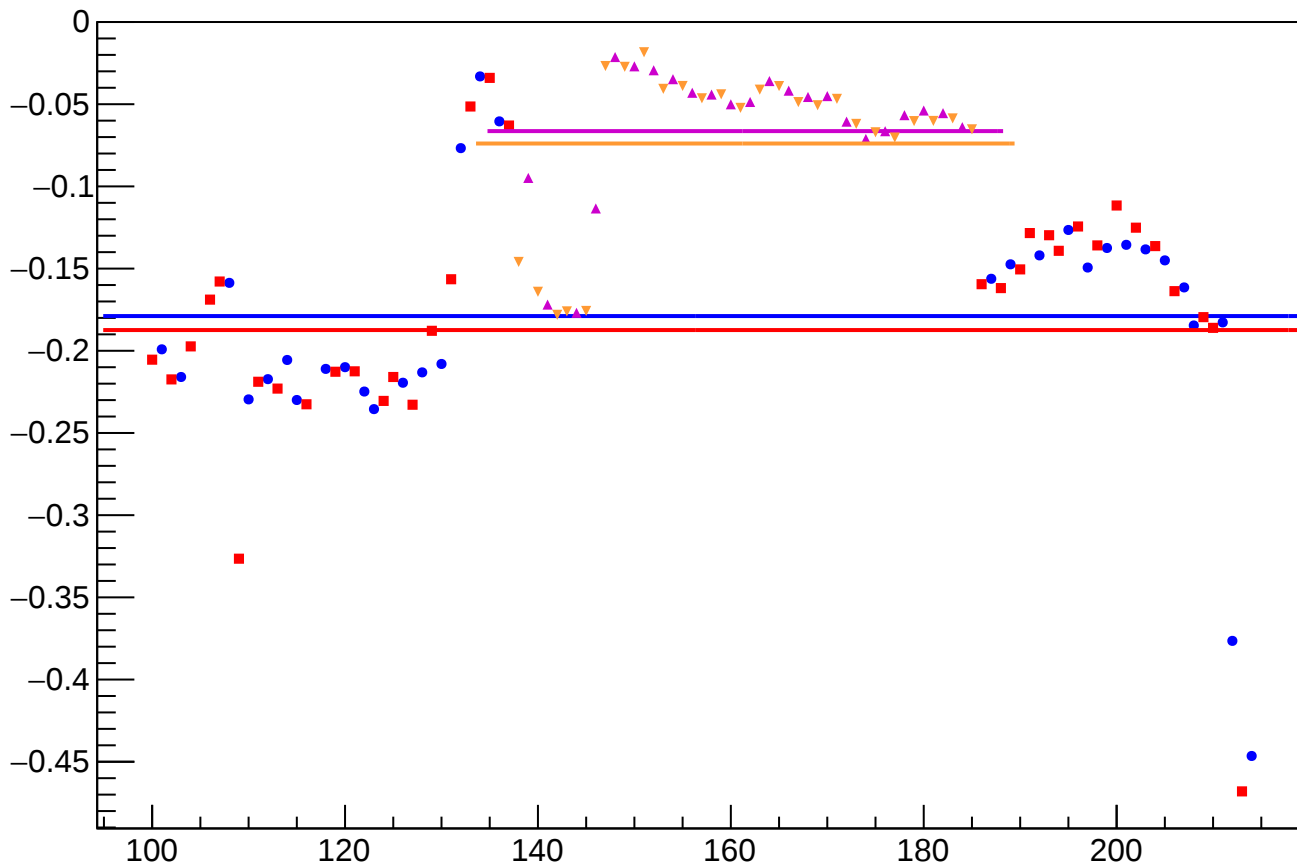
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3988809.2/64

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2833881.8/53

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3589636.7/58

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6424361.7/112

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.179+/-0.000 χ^2/NDF : 101239506.6/30

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

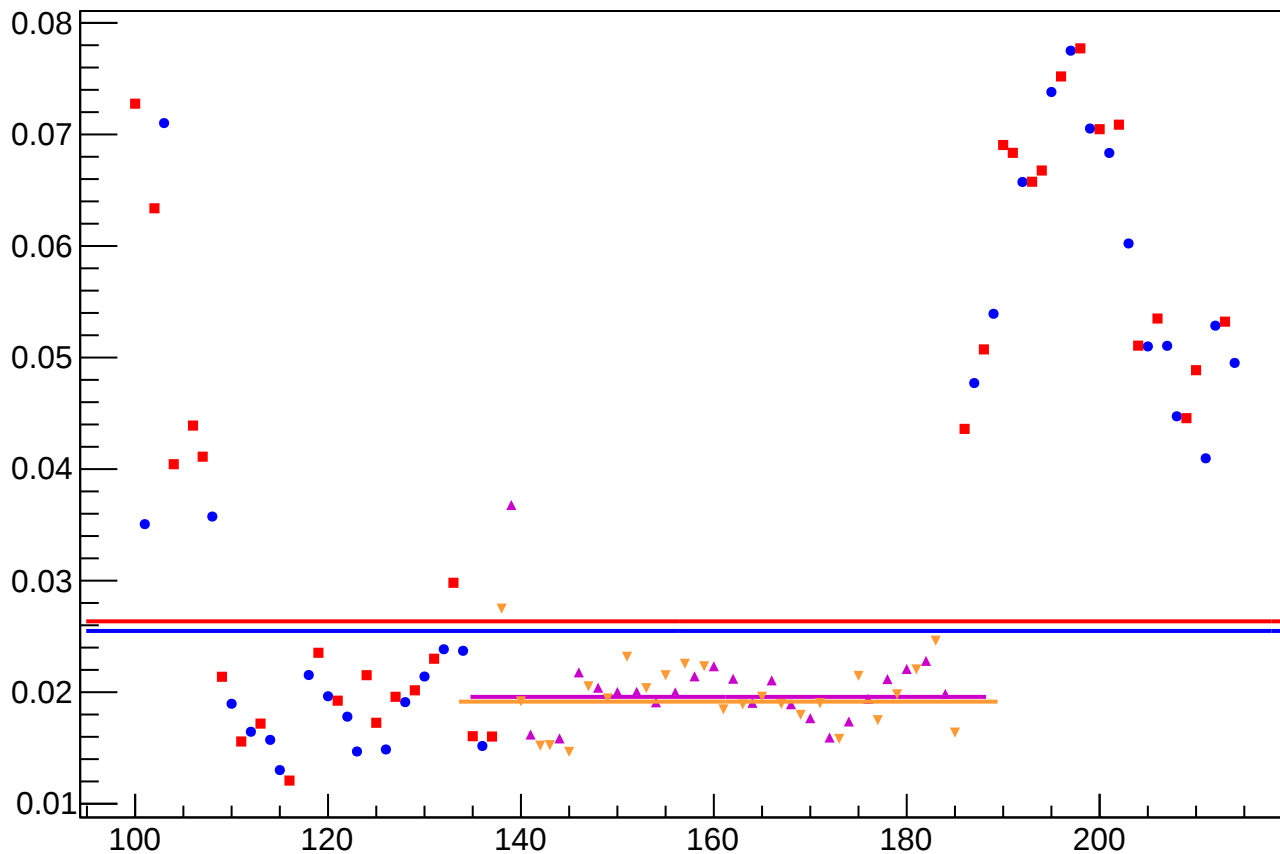
Right: -0.183+/-0.000 χ^2/NDF : 207966414.3/64

In: -0.101+/-0.000 χ^2/NDF : 325227625.8/53

Out: -0.106+/-0.000 χ^2/NDF : 364836443.7/58

All: -0.104+/-0.000 χ^2/NDF : 690697840.9/11

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 8483262.9/30

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.026+/-0.000 χ^2/NDF : 8765518.7/33

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

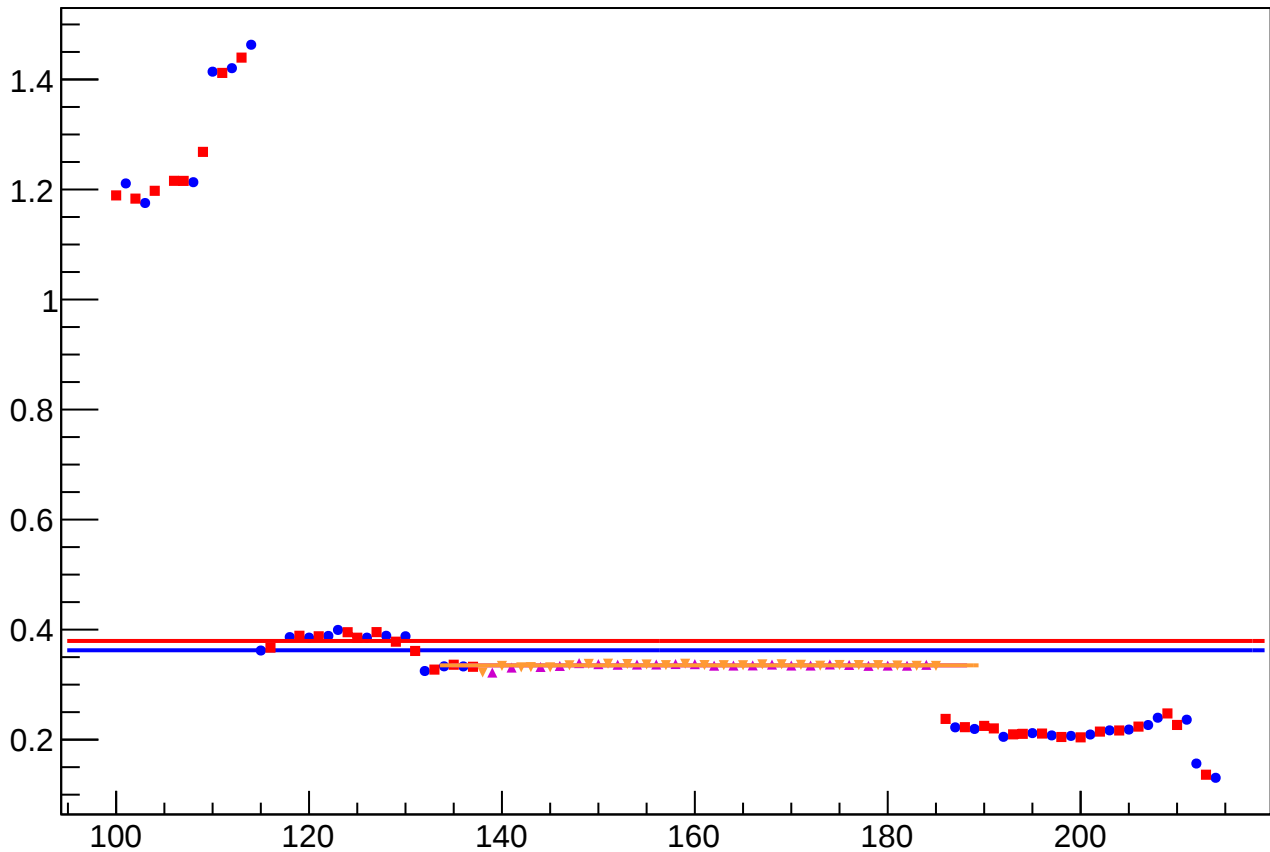
Right: 0.026+/-0.000 χ^2/NDF : 17261123.7/64

In: 0.021+/-0.000 χ^2/NDF : 9949997.4/53

Out: 0.021+/-0.000 χ^2/NDF : 10620452.4/58

All: 0.021+/-0.000 χ^2/NDF : 20573177.9/112

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.362+/-0.000 χ^2/NDF : 7801738341.7/30

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

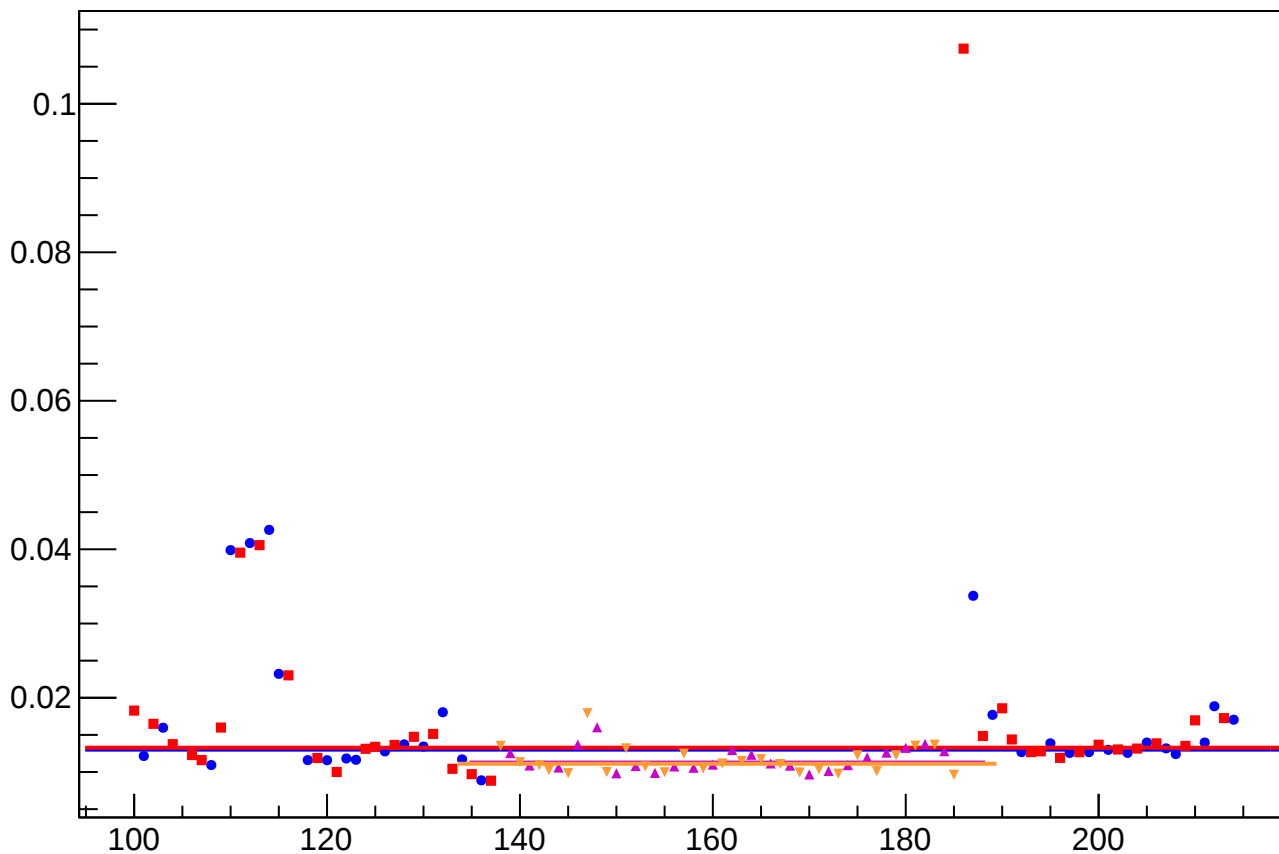
Right: 0.371+/-0.000 χ^2/NDF : 16633584914.4/64

In: 0.346+/-0.000 χ^2/NDF :7842704698.3/53

Out: 0.352+/-0.000 χ^2/NDF :8925959533.4/58

All: 0.349+/-0.000 χ^2/NDF : 16772451616.8/115

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1769832.9/30

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

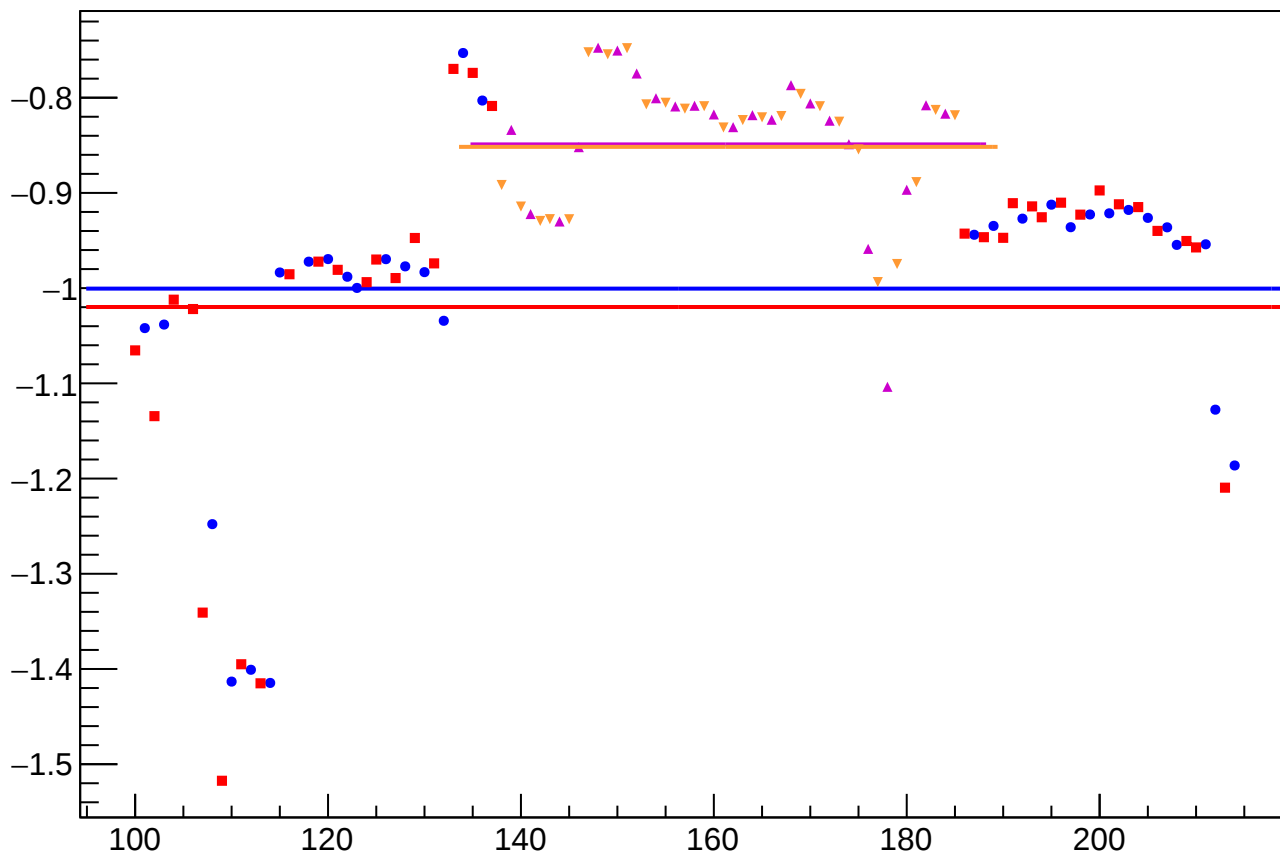
Right: 0.013+/-0.000 χ^2/NDF : 3865428.4/64

In: 0.012+/-0.000 χ^2/NDF : 2592256.4/53

Out: 0.012+/-0.000 χ^2/NDF : 3198776.9/58

All: 0.012+/-0.000 χ^2/NDF : 5791429.0/112

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.001+/-0.000 χ^2/NDF : 418235747.2/30

Left Out: -0.852+/-0.000 χ^2/NDF : 189276591.7/24

Right Out: -1.020+/-0.000 χ^2/NDF : 567656432.7/33

Left In: -0.849+/-0.000 χ^2/NDF : 256438306.8/22

Left: -0.850+/-0.000 χ^2/NDF : 445849768.4/47

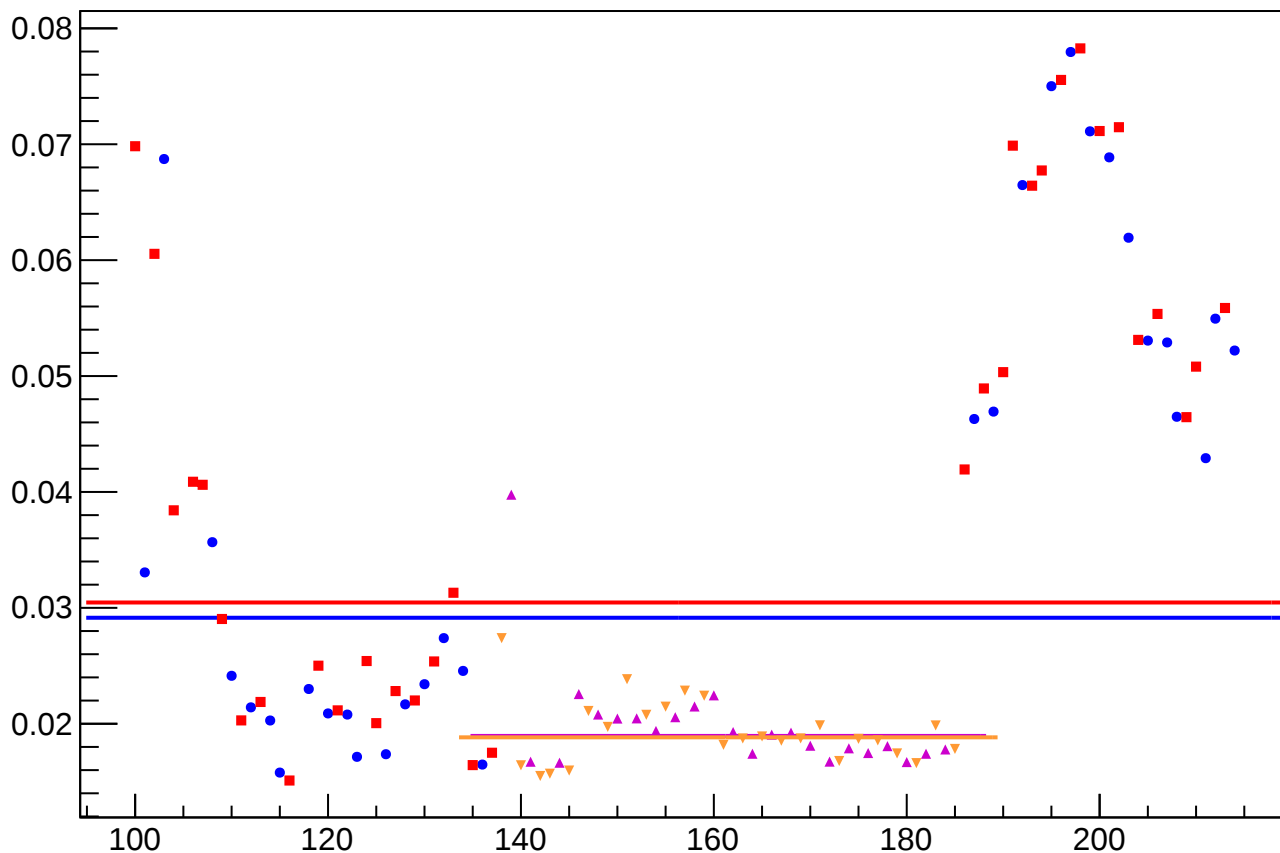
Right: -1.010+/-0.000 χ^2/NDF : 988392260.5/64

In: -0.888+/-0.000 χ^2/NDF : 907599749.6/53

Out: -0.892+/-0.000 χ^2/NDF : 1039529619.2/58

All: -0.890+/-0.000 χ^2/NDF : 1947432893.9/111

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 7182142.4/30

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

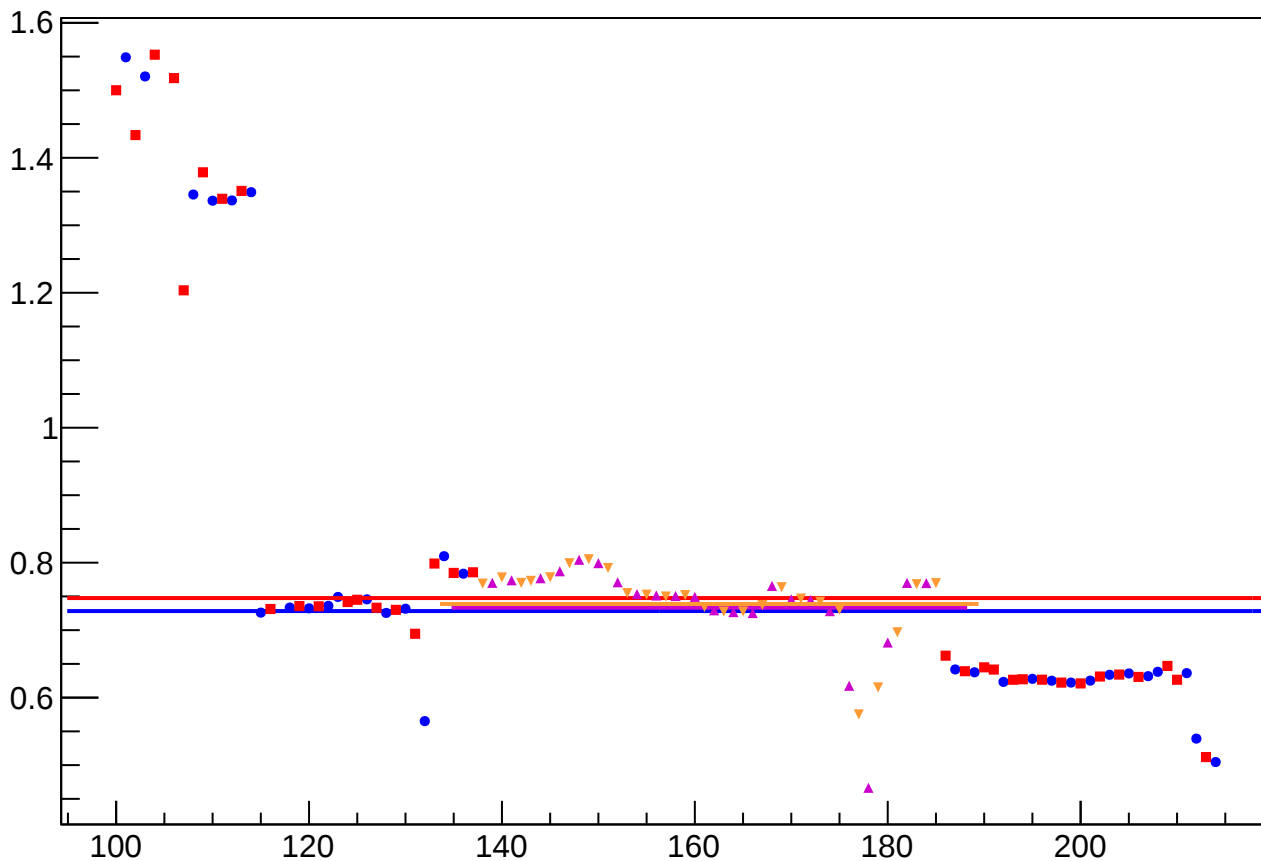
Right: 0.030+/-0.000 χ^2/NDF : 14311573.5/64

In: 0.022+/-0.000 χ^2/NDF : 9938579.3/53

Out: 0.022+/-0.000 χ^2/NDF : 10301096.1/58

All: 0.022+/-0.000 χ^2/NDF : 20239676.5/112

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.728+/-0.000 χ^2/NDF : 3712033342.2/30

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

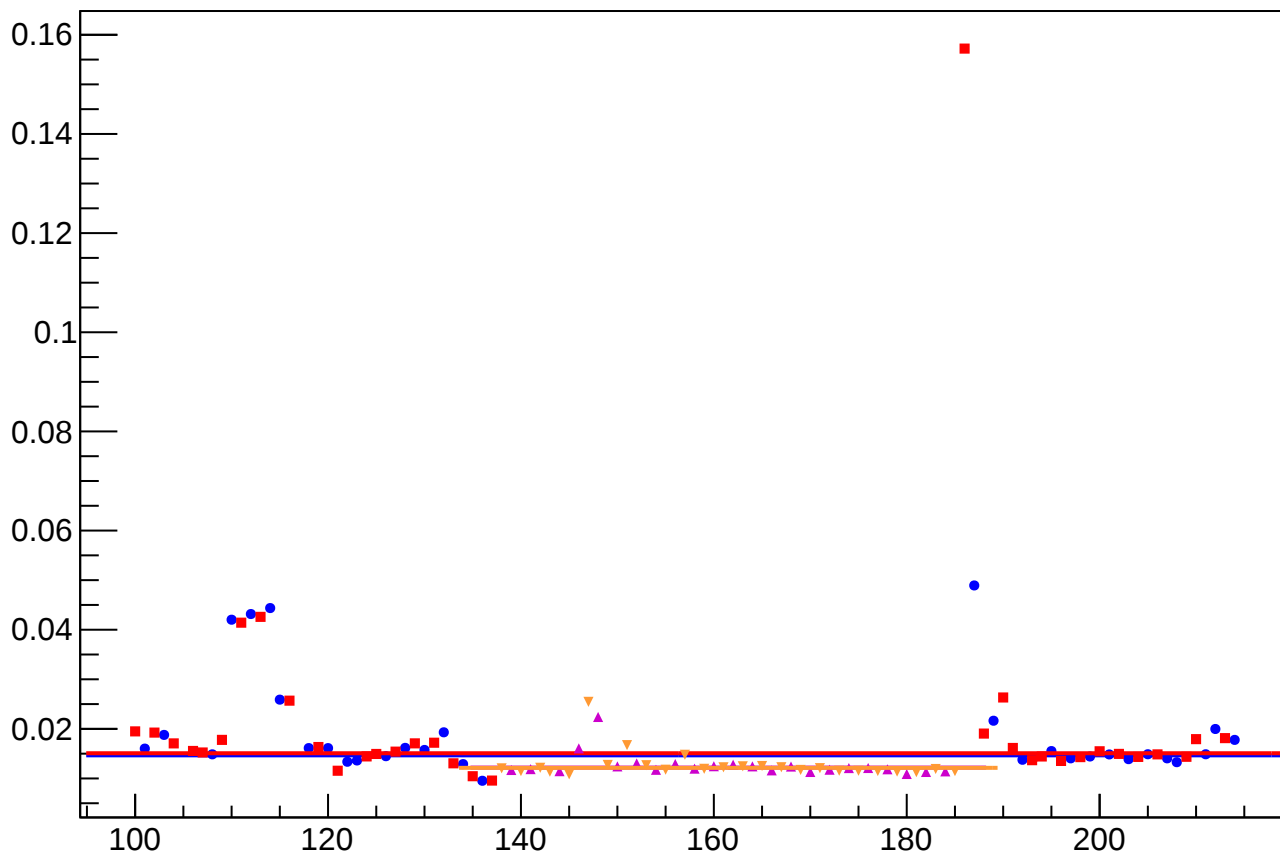
Right: 0.738+/-0.000 χ^2/NDF : 7693916465.6/64

In: 0.731+/-0.000 χ^2/NDF : 4283390359.5/53

Out: 0.742+/-0.000 χ^2/NDF : 4305569748.1/58

All: 0.737+/-0.000 χ^2/NDF : 8599240584.9/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1813003.5/30

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

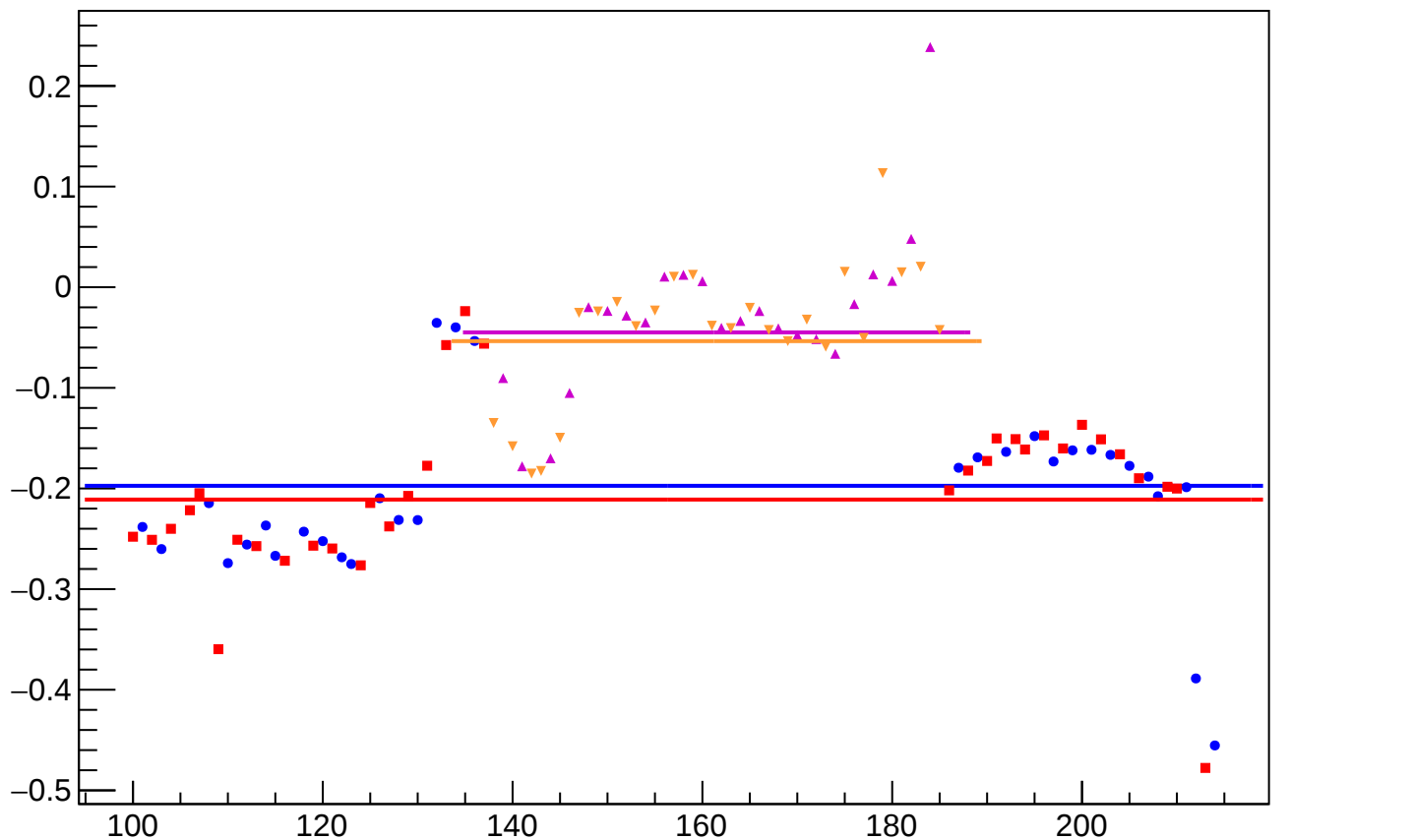
Right: 0.015+/-0.000 χ^2/NDF : 3984760.4/64

In: 0.013+/-0.000 χ^2/NDF : 2821032.7/53

Out: 0.013+/-0.000 χ^2/NDF : 3543944.7/58

All: 0.013+/-0.000 χ^2/NDF : 6365833.4/112

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.197±/0.000 χ^2/NDF : 136728642.5/30

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

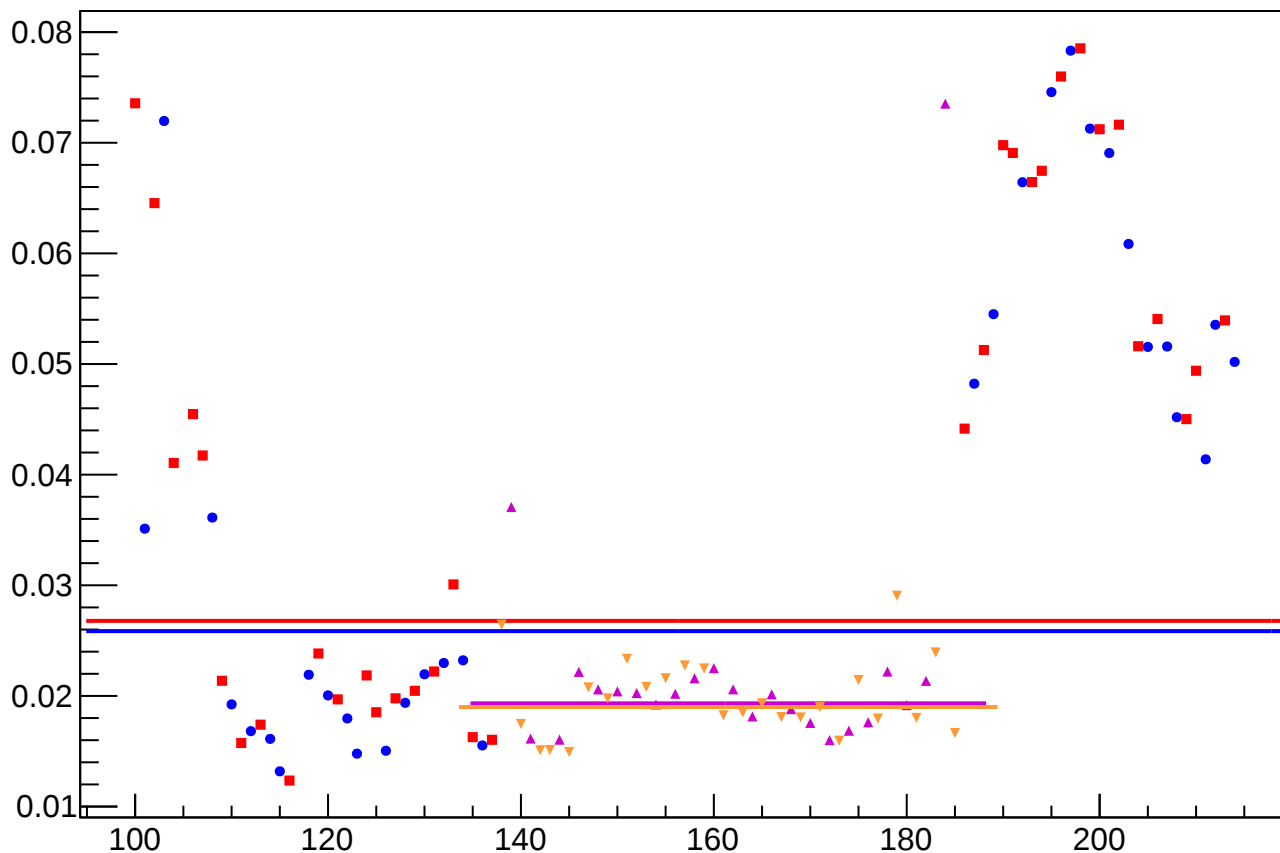
Right: -0.204±/0.000 χ^2/NDF : 269876640.3/64

In: -0.092±/0.000 χ^2/NDF : 530095224.2/53

Out: -0.098±/0.000 χ^2/NDF : 582304705.5/58

All: -0.095±/0.000 χ^2/NDF : 1113462193.9/111

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 8422709.5/30

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

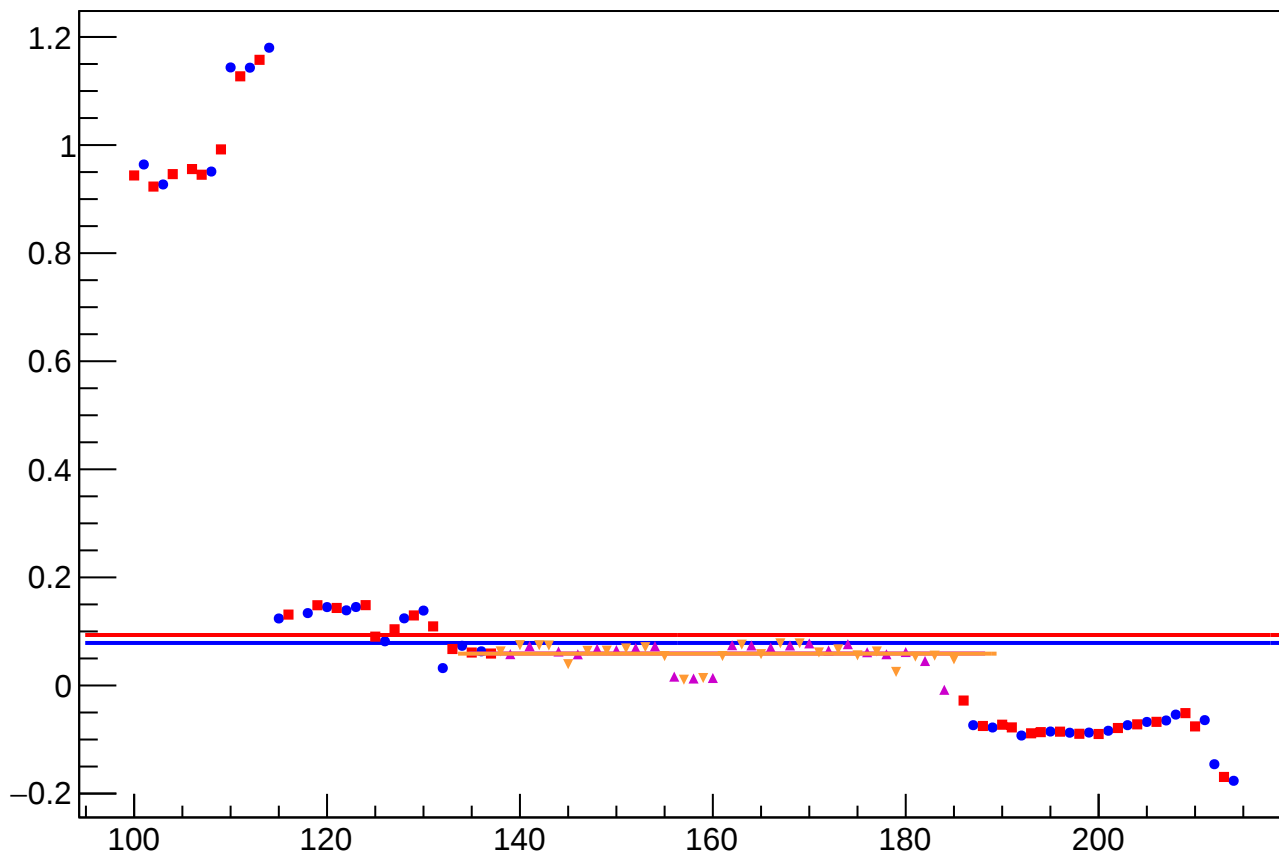
Right: 0.026 $\pm$ 0.000 χ^2 /NDF: 17144056.4/64

In: 0.021 $\pm$ 0.000 χ^2 /NDF:10290839.9/53

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:10790298.3/58

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 21082319.5/112

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.079 $\pm$ 0.000 χ^2 /NDF: 8485798651.7/30

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

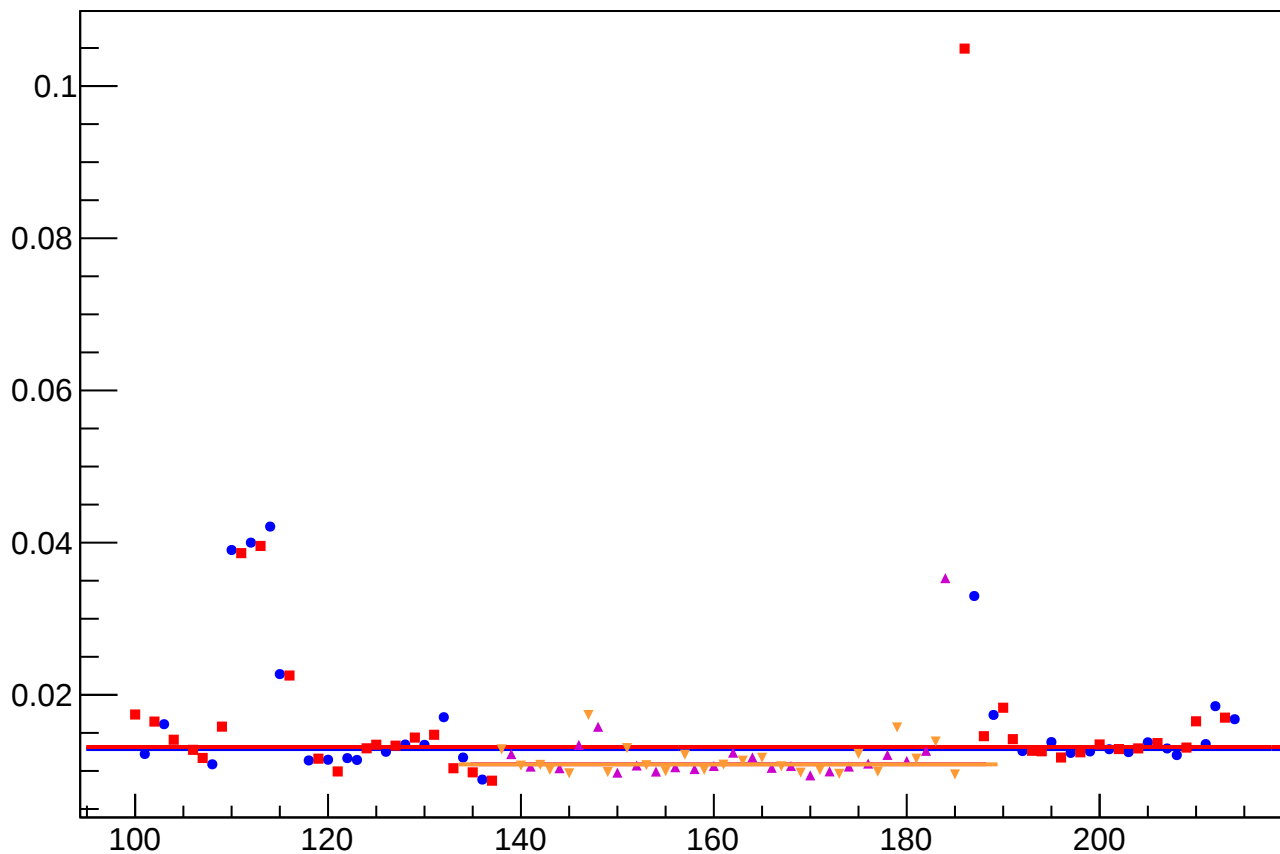
Right: 0.086 $\pm$ 0.000 χ^2 /NDF: 17842129341.7/64

In: 0.067 $\pm$ 0.000 χ^2 /NDF: 8565158636.3/53

Out: 0.072 $\pm$ 0.000 χ^2 /NDF: 9458829749.2/58

All: 0.069 $\pm$ 0.000 χ^2 /NDF: 18026930128.7/113

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 1724140.5/30

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:605519.3/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 2034015.4/33

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:529867.3/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1135492.7/47

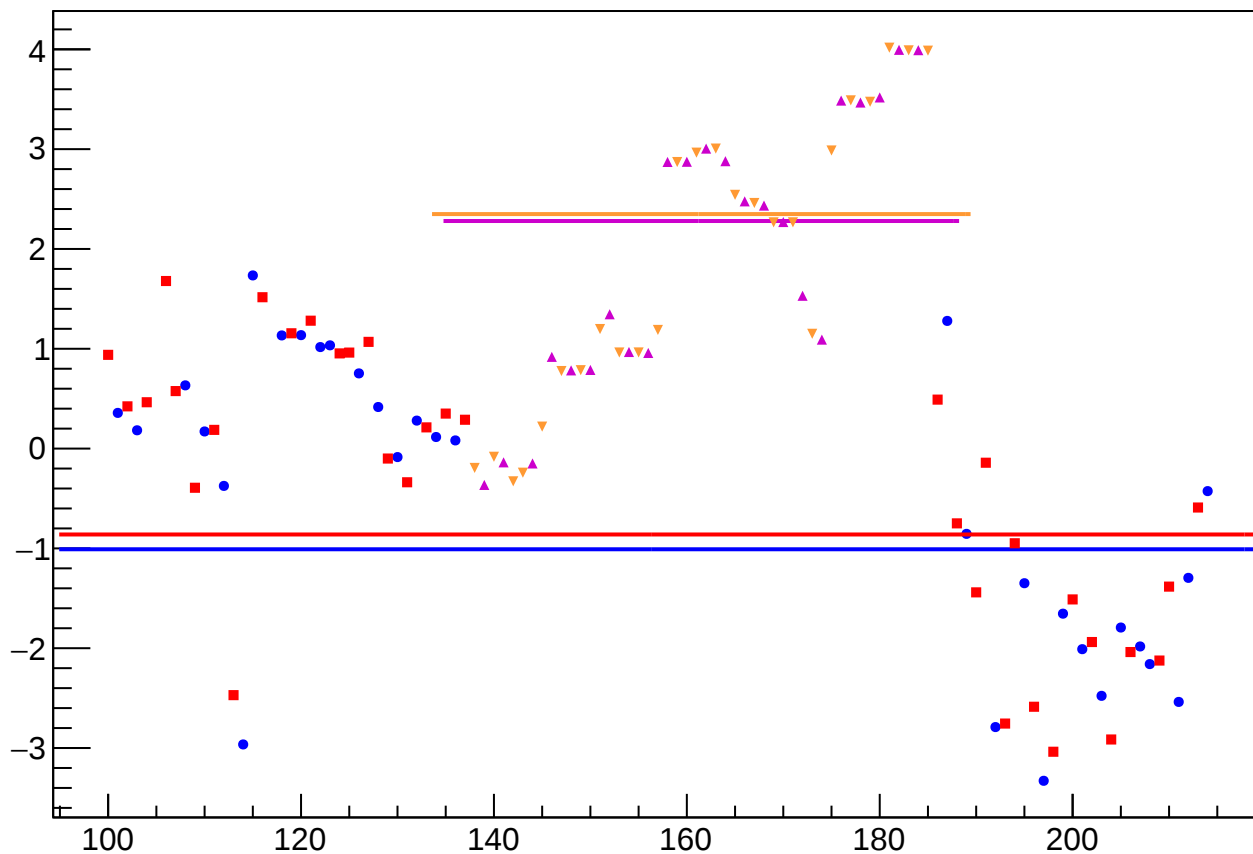
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3764694.2/64

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2683117.1/53

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:3210449.8/58

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 5894145.6/112

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -1.009 $\pm$ 0.000 χ^2 /NDF: 7803842569.5/30

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

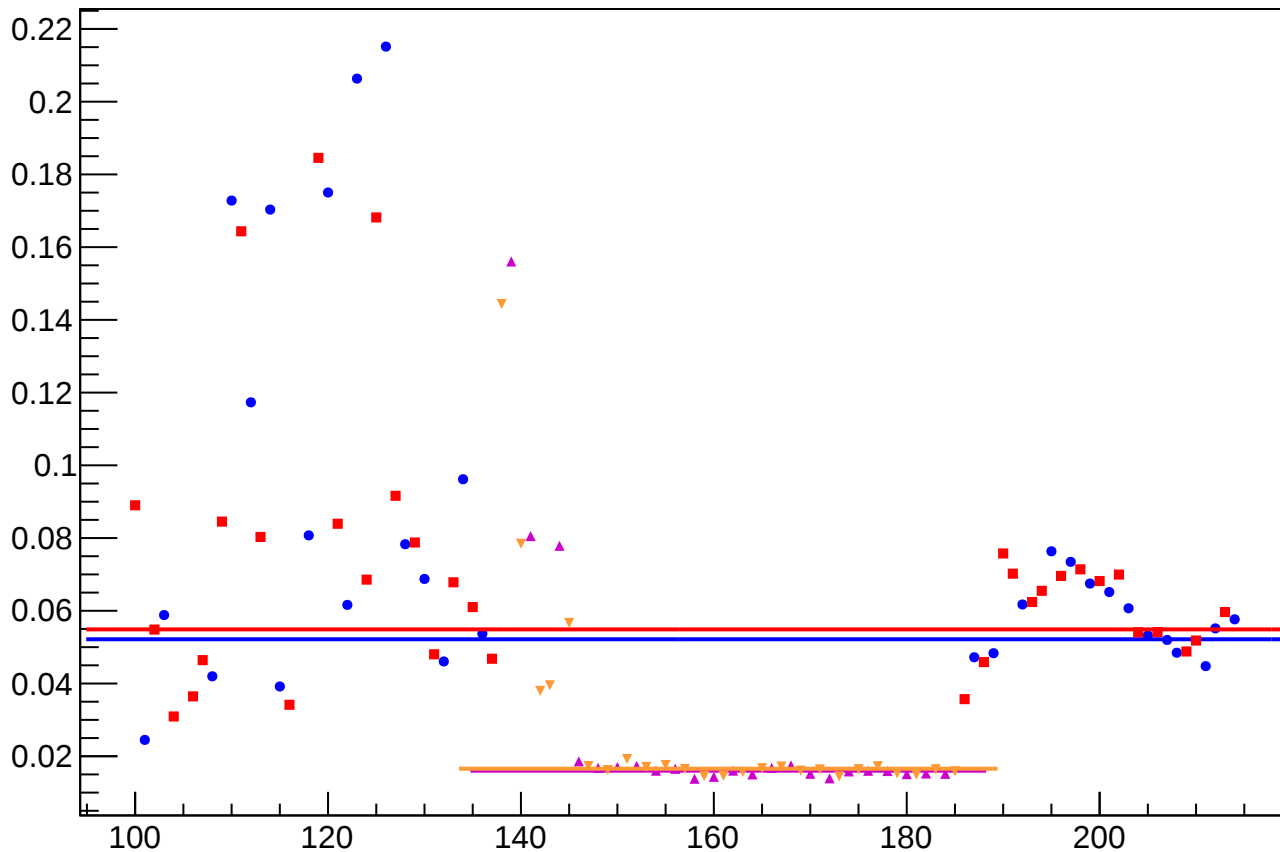
Right: -0.936 $\pm$ 0.000 χ^2 /NDF: 16027659234.7/64

In: 2.012 $\pm$ 0.000 χ^2 /NDF: 115341823309.0/53

Out: 2.093 $\pm$ 0.000 χ^2 /NDF: 113882891553.8/58

All: 2.052 $\pm$ 0.000 χ^2 /NDF: 229410048227.7

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3523580.9/30

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2623615.6/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 2874153.3/33

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2463853.3/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5102815.6/47

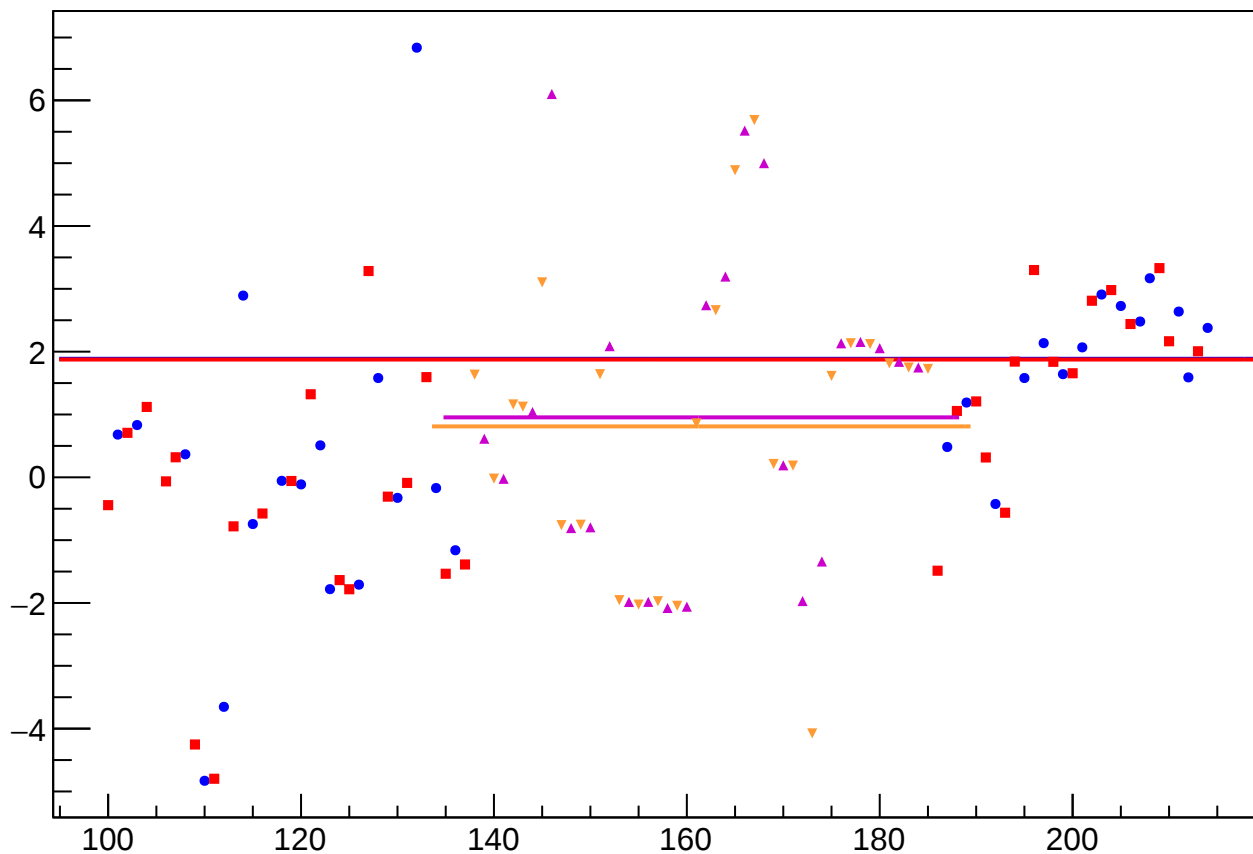
Right: 0.053 $\pm$ 0.000 χ^2 /NDF: 6431359.6/64

In: 0.019 $\pm$ 0.000 χ^2 /NDF:17115590.4/53

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:17493203.0/58

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 34633169.8/112

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.886+/-0.000

χ^2/NDF : 38967001500.8/30

Left: 0.883+/-0.000

χ^2/NDF : 1083260277372.9/47

Right: 1.881+/-0.000

χ^2/NDF : 78499911873.6/64

Left Out: 0.810+/-0.000

χ^2/NDF : 507583198570.2/24

In: 1.194+/-0.000

χ^2/NDF : 632866998283.9/53

Right Out: 1.875+/-0.000

χ^2/NDF : 39531034115.6/33

Out: 1.072+/-0.000

χ^2/NDF : 570812421831.9/58

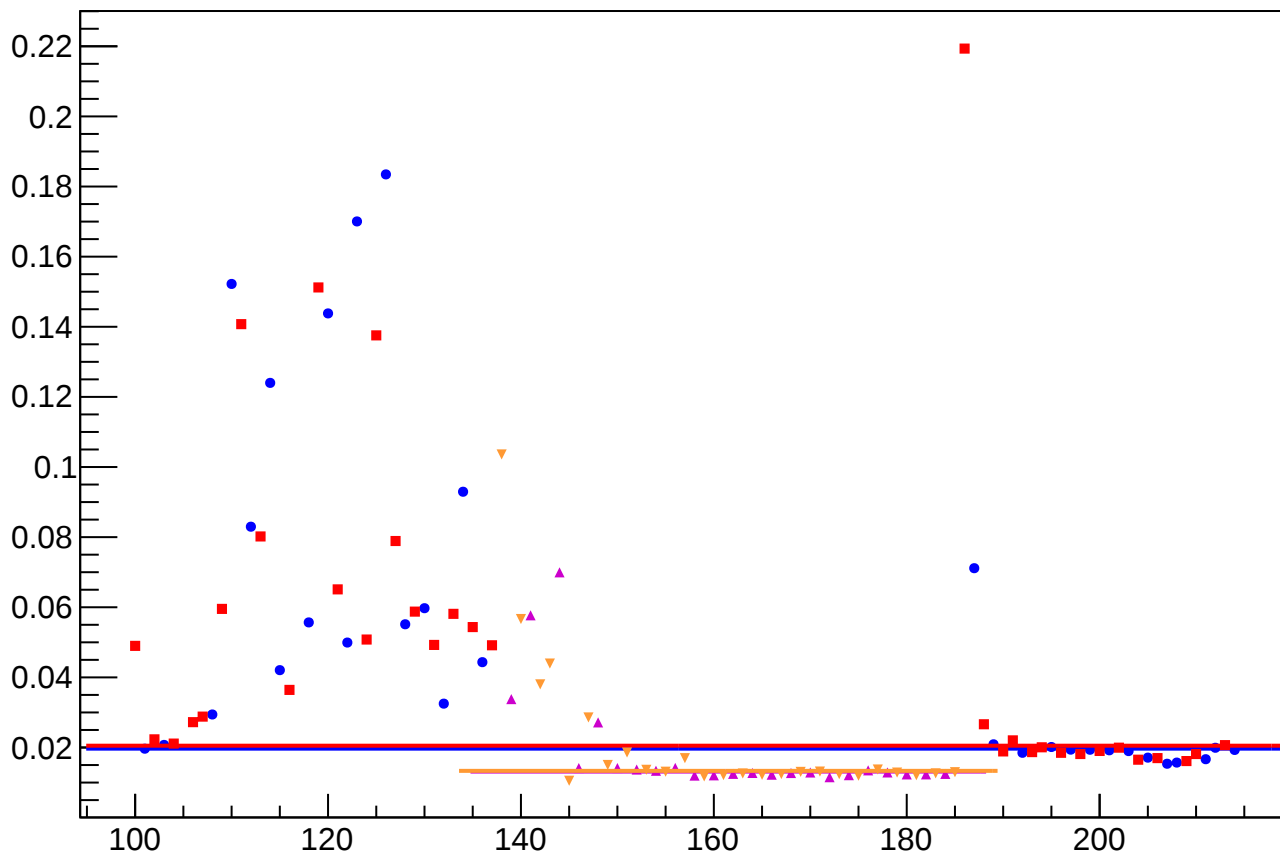
Left In: 0.954+/-0.000

χ^2/NDF : 574792794608.3/22

All: 1.133+/-0.000

χ^2/NDF : 1204523741239.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4113612.1/30

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

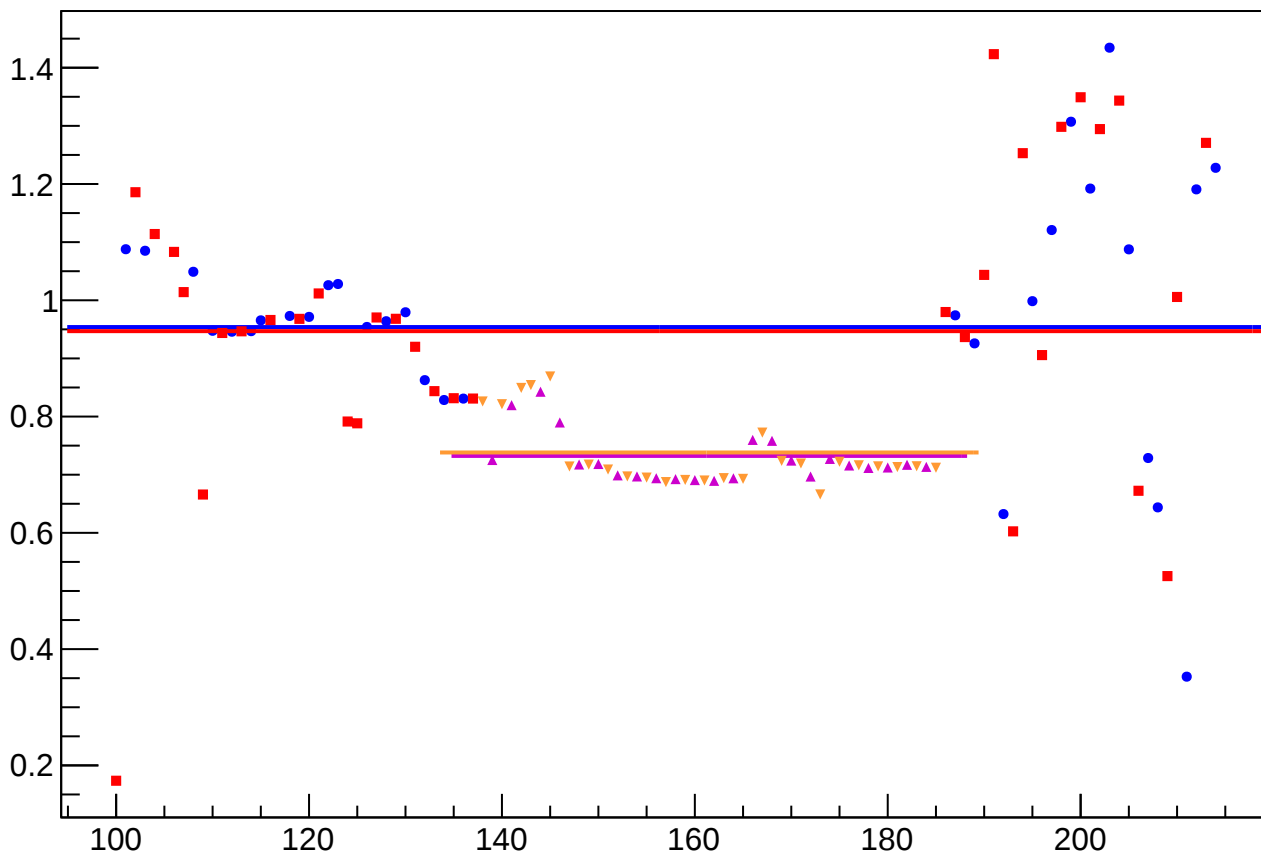
Right: 0.020+/-0.000 χ^2/NDF : 9301322.5/64

In: 0.015+/-0.000 χ^2/NDF :7963929.8/53

Out: 0.015+/-0.000 χ^2/NDF :10149868.6/58

All: 0.015+/-0.000 χ^2/NDF : 18123326.5/112

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.954+/-0.000 χ^2/NDF : 969674238.5/30

Left Out: 0.738+/-0.000 χ^2/NDF : 310610047.7/24

Right Out: 0.947+/-0.000 χ^2/NDF : 1201149116.4/33

Left In: 0.732+/-0.000 χ^2/NDF : 170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

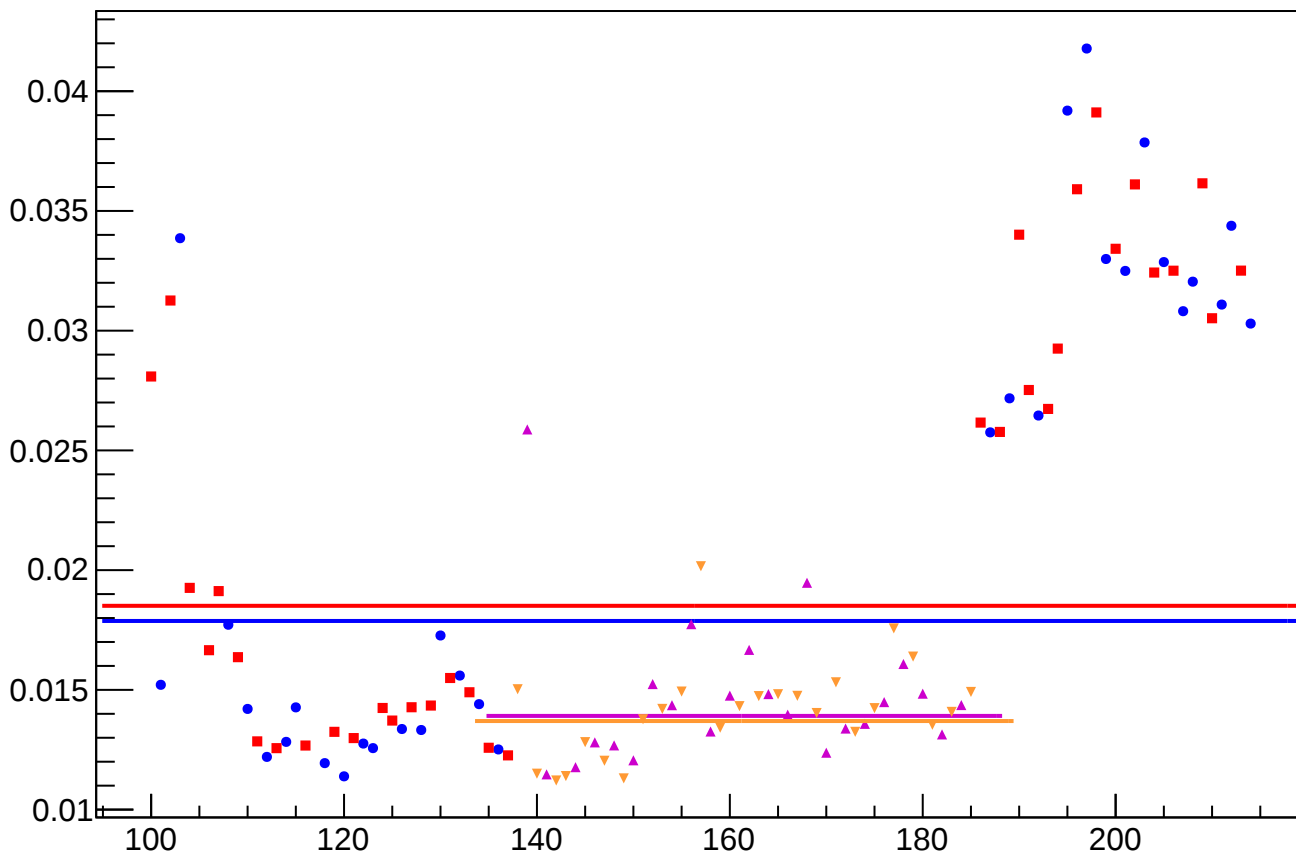
Right: 0.950+/-0.000 χ^2/NDF : 2171790550.9/64

In: 0.805+/-0.000 χ^2/NDF : 2433435048.2/53

Out: 0.803+/-0.000 χ^2/NDF : 2679614387.6/58

All: 0.804+/-0.000 χ^2/NDF : 5113286273.7/111

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 5372897.6/30

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.019+/-0.000 χ^2/NDF : 4797104.4/33

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

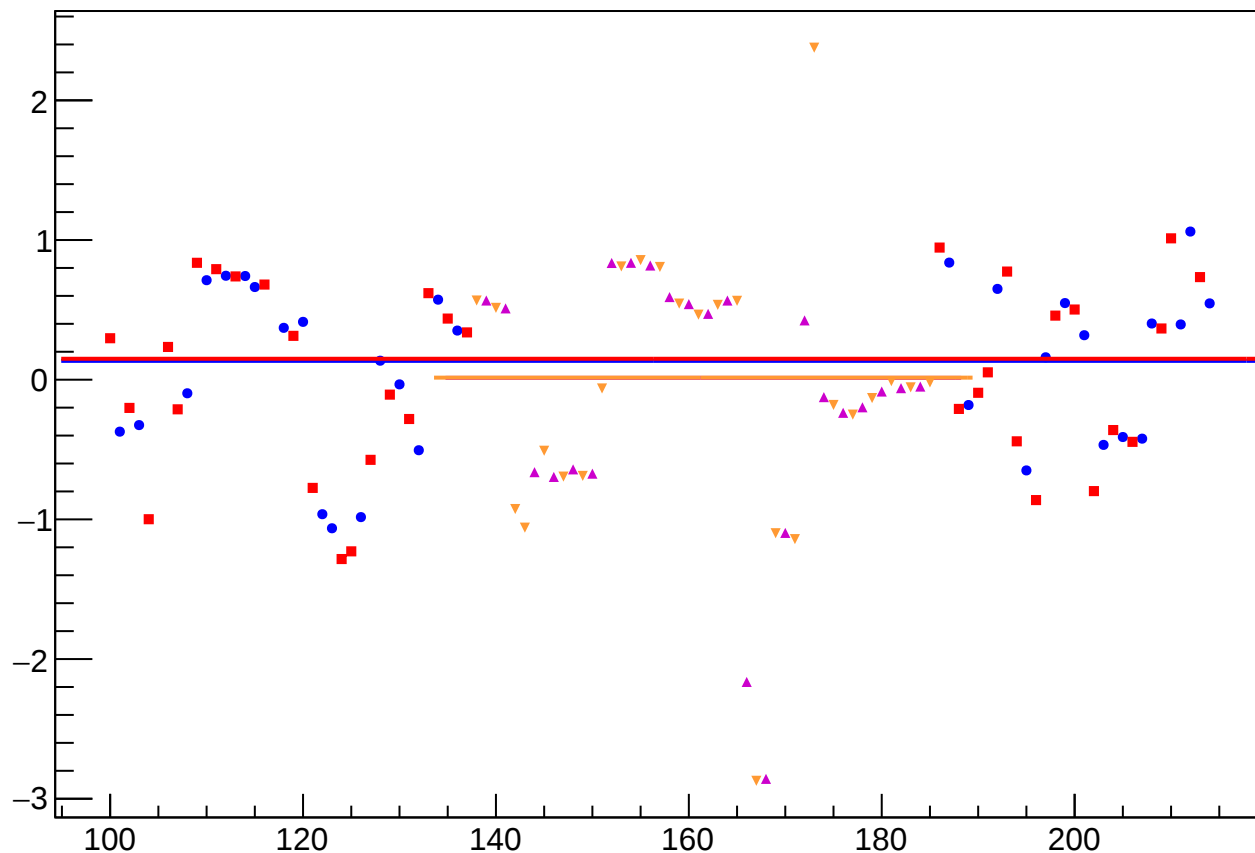
Right: 0.018+/-0.000 χ^2/NDF : 10185624.6/64

In: 0.015+/-0.000 χ^2/NDF : 6995027.8/53

Out: 0.015+/-0.000 χ^2/NDF : 6570092.2/58

All: 0.015+/-0.000 χ^2/NDF : 13565173.3/112

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.135 $\pm$ 0.000

χ^2 /NDF: 29599918926.8/30

Left: 0.014 $\pm$ 0.000

χ^2 /NDF: 175533691121.4/47

Left Out: 0.015 $\pm$ 0.000

χ^2 /NDF: 96087835995.8/24

Right: 0.142 $\pm$ 0.000

χ^2 /NDF: 70367728084.5/64

Right Out: 0.150 $\pm$ 0.000

χ^2 /NDF: 40756258999.6/33

In: 0.073 $\pm$ 0.000

χ^2 /NDF: 109827342983.1/53

Out: 0.080 $\pm$ 0.000

χ^2 /NDF: 137806791224.3/58

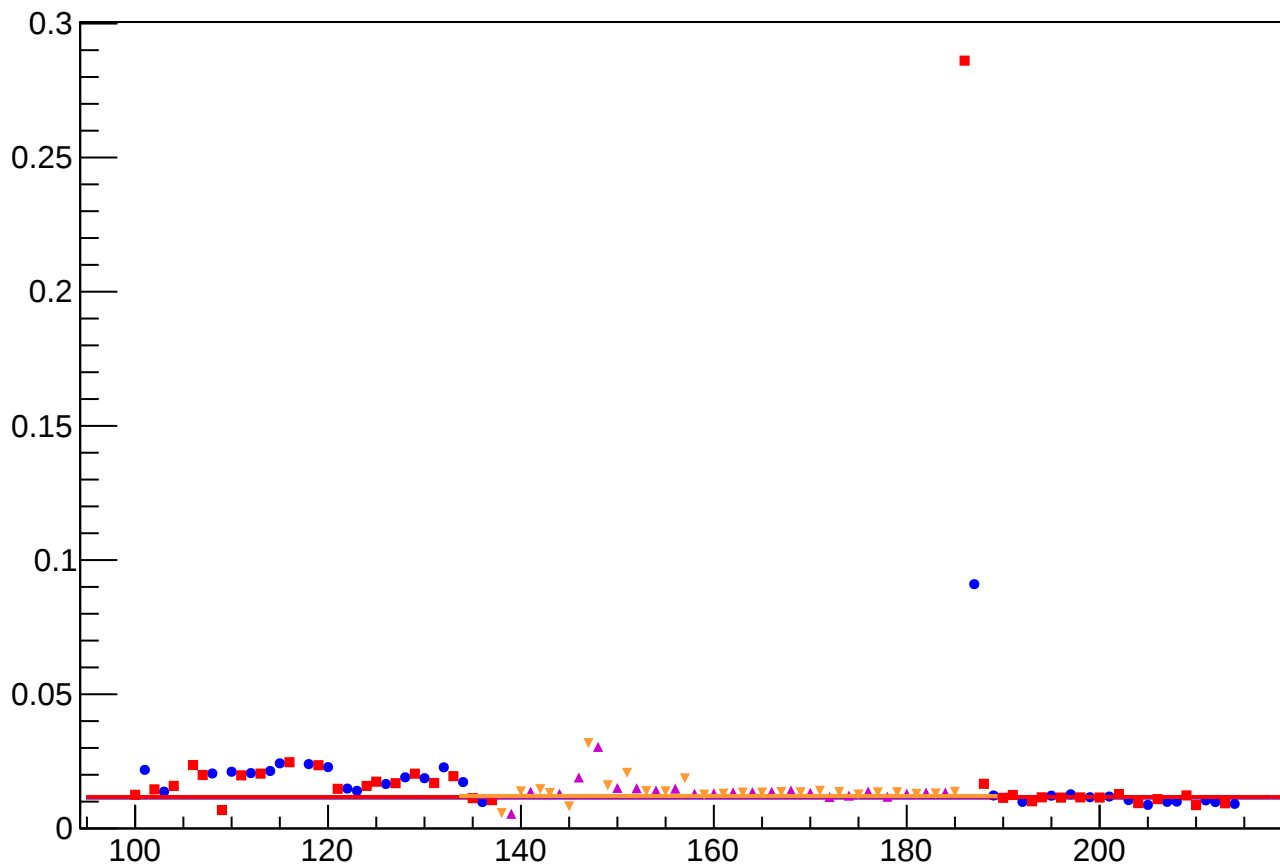
Left In: 0.013 $\pm$ 0.000

χ^2 /NDF: 79445696658.6/22

All: 0.077 $\pm$ 0.000

χ^2 /NDF: 247638650366.2

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2499662.8/30

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2971200.7/33

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

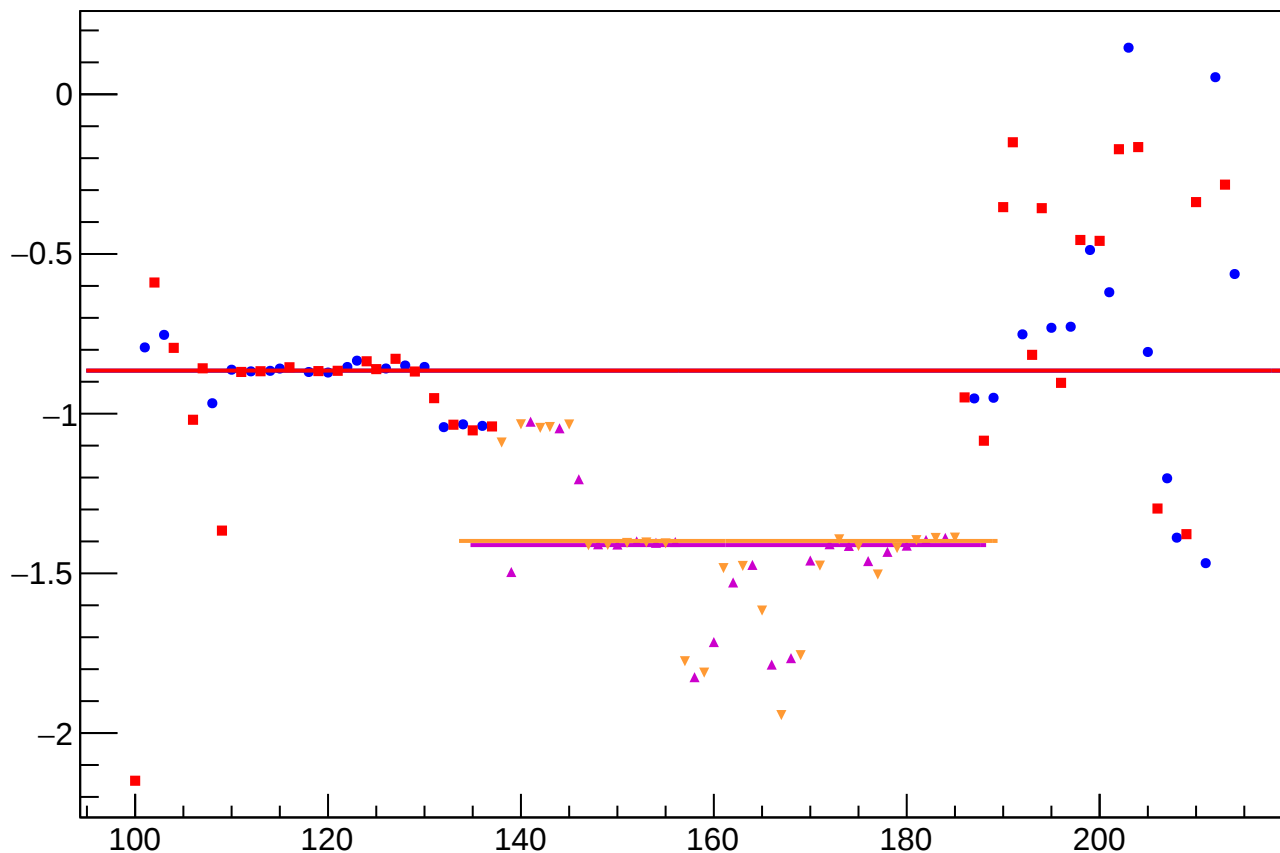
Right: 0.012+/-0.000 χ^2/NDF : 5475433.7/64

In: 0.012+/-0.000 χ^2/NDF :5623557.1/53

Out: 0.012+/-0.000 χ^2/NDF :6094904.8/58

All: 0.012+/-0.000 χ^2/NDF : 11727257.5/112

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.865 ± 0.000 χ^2/NDF : 349315797.5/30

Left Out: -1.398 ± 0.000 χ^2/NDF : 734579404.3/24

Right Out: -0.865 ± 0.000 χ^2/NDF : 482589953.7/33

Left In: -1.412 ± 0.000 χ^2/NDF : 512629872.4/22

Left: -1.405 ± 0.000 χ^2/NDF : 1248268857.1/47

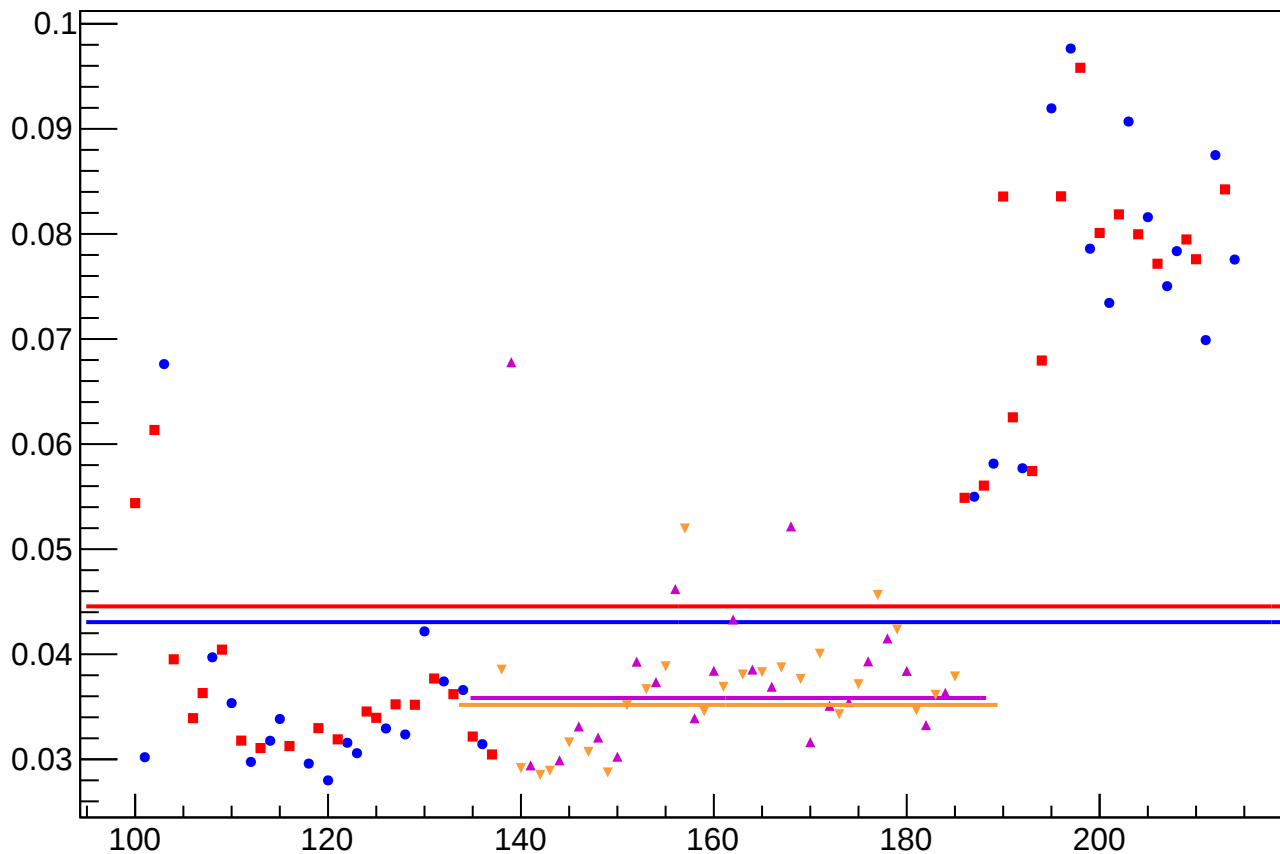
Right: -0.865 ± 0.000 χ^2/NDF : 831906005.1/64

In: -1.212 ± 0.000 χ^2/NDF : 2168744340.6/53

Out: -1.214 ± 0.000 χ^2/NDF : 2492917408.7/58

All: -1.213 ± 0.000 χ^2/NDF : 4661723963.6/1

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.043 $\pm$ 0.000 χ^2 /NDF: 5155114.3/30

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

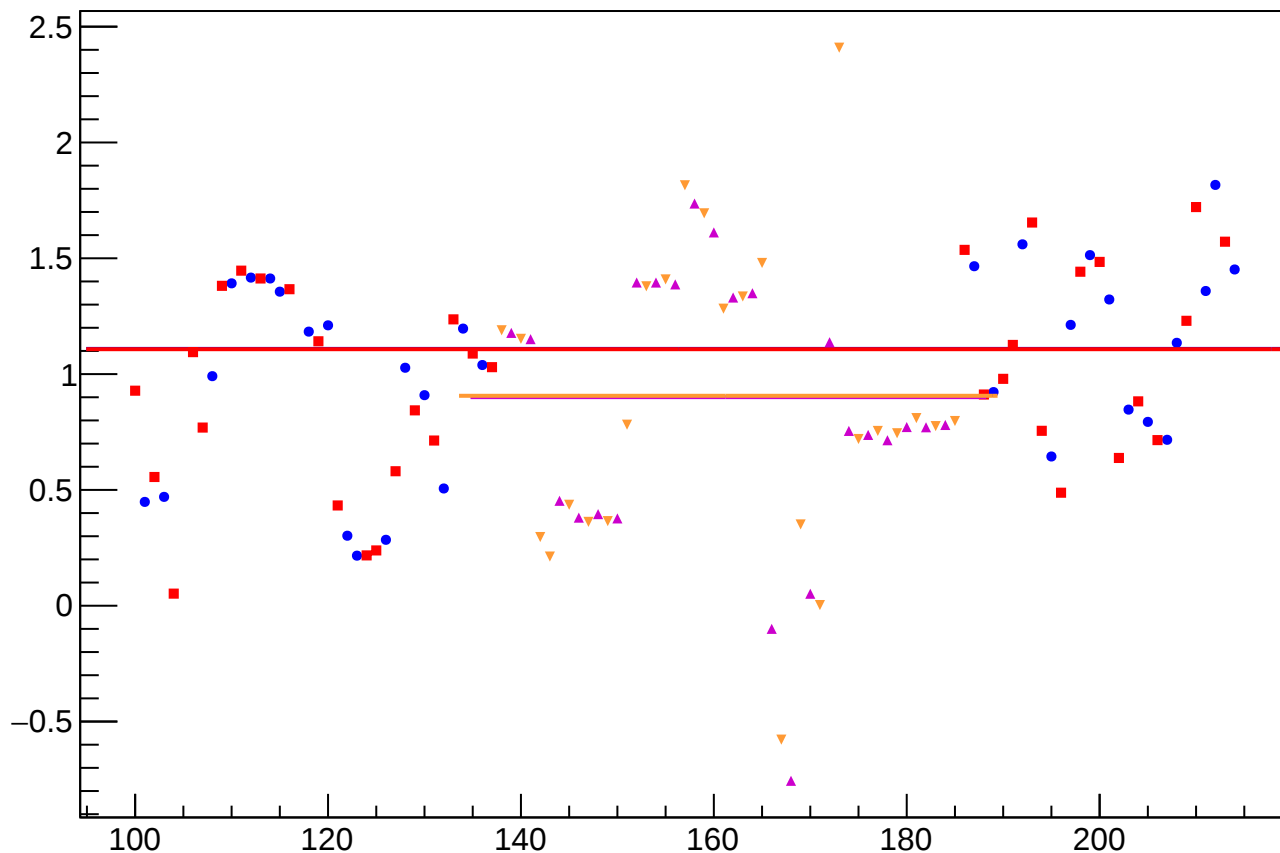
Right: 0.044 $\pm$ 0.000 χ^2 /NDF: 9527682.3/64

In: 0.038 $\pm$ 0.000 χ^2 /NDF:6502700.6/53

Out: 0.038 $\pm$ 0.000 χ^2 /NDF:5743155.7/58

All: 0.038 $\pm$ 0.000 χ^2 /NDF: 12245926.1/112

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.109+/-0.000

χ^2/NDF : 40070543265.6/30

Left: 0.904+/-0.000 χ^2/NDF : 151044220035.9/47

Right: 1.108+/-0.000 χ^2/NDF : 83718206958.0/64

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

In: 1.021+/-0.000 χ^2/NDF : 112201256666.5/53

Right Out: 1.108+/-0.000

χ^2/NDF : 43647466060.9/33

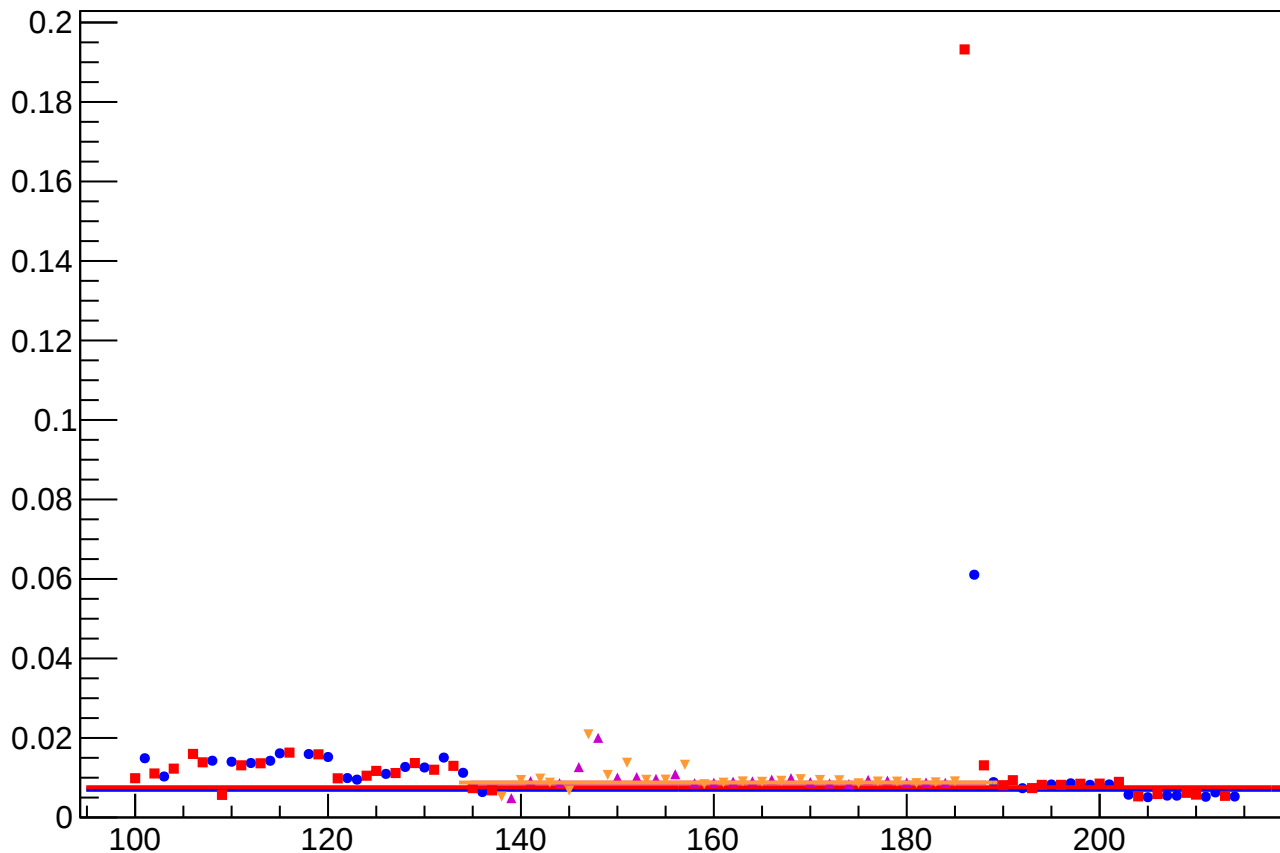
Out: 1.012+/-0.000 χ^2/NDF : 132423076850.0/58

Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 1.017+/-0.000 χ^2/NDF : 244641071762.6

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3575021.5/30

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3683927.5/33

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

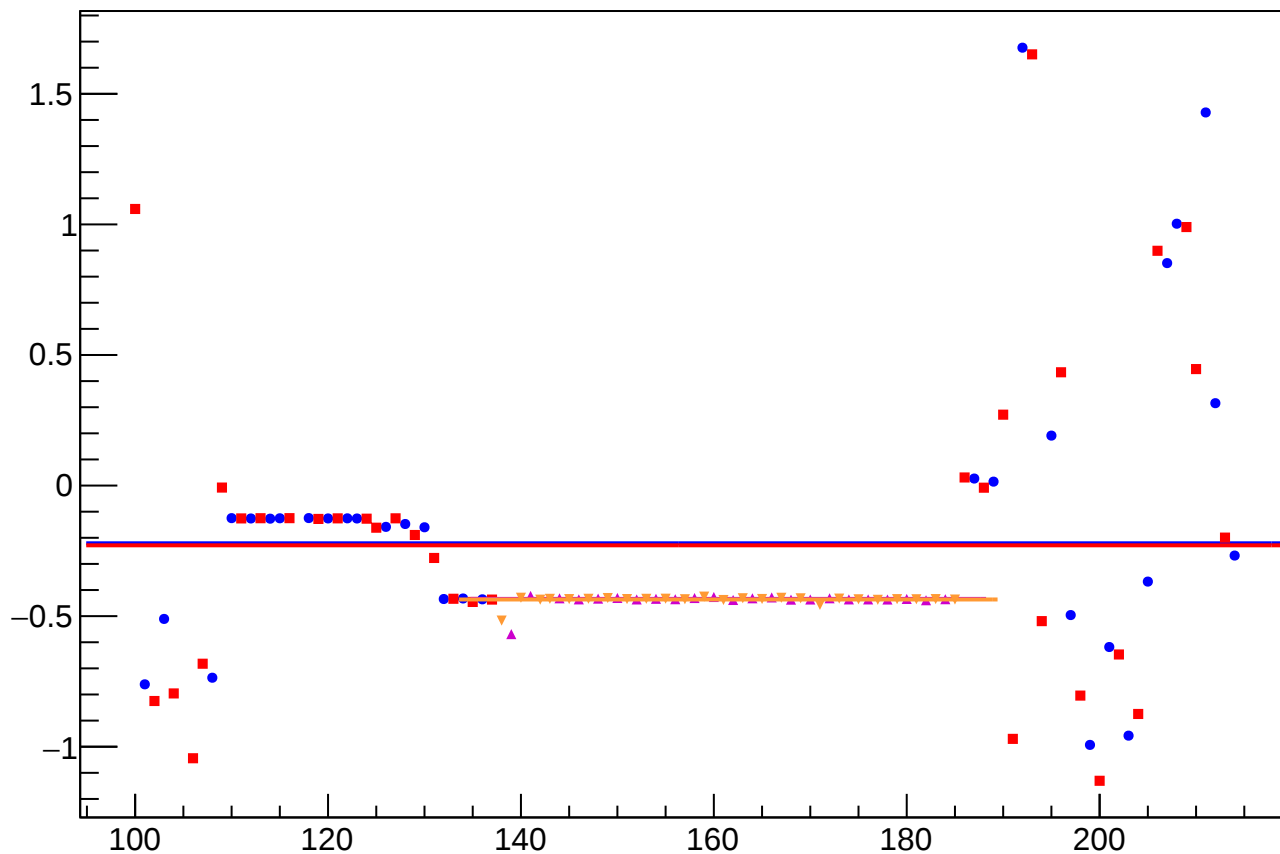
Right: 0.007+/-0.000 χ^2/NDF : 7366834.7/64

In: 0.008+/-0.000 χ^2/NDF : 6001725.9/53

Out: 0.008+/-0.000 χ^2/NDF : 5705223.4/58

All: 0.008+/-0.000 χ^2/NDF : 11803542.7/112

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.221+/-0.000 χ^2/NDF : 4753273477.4/30

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.229+/-0.000 χ^2/NDF : 3413959324.9/33

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

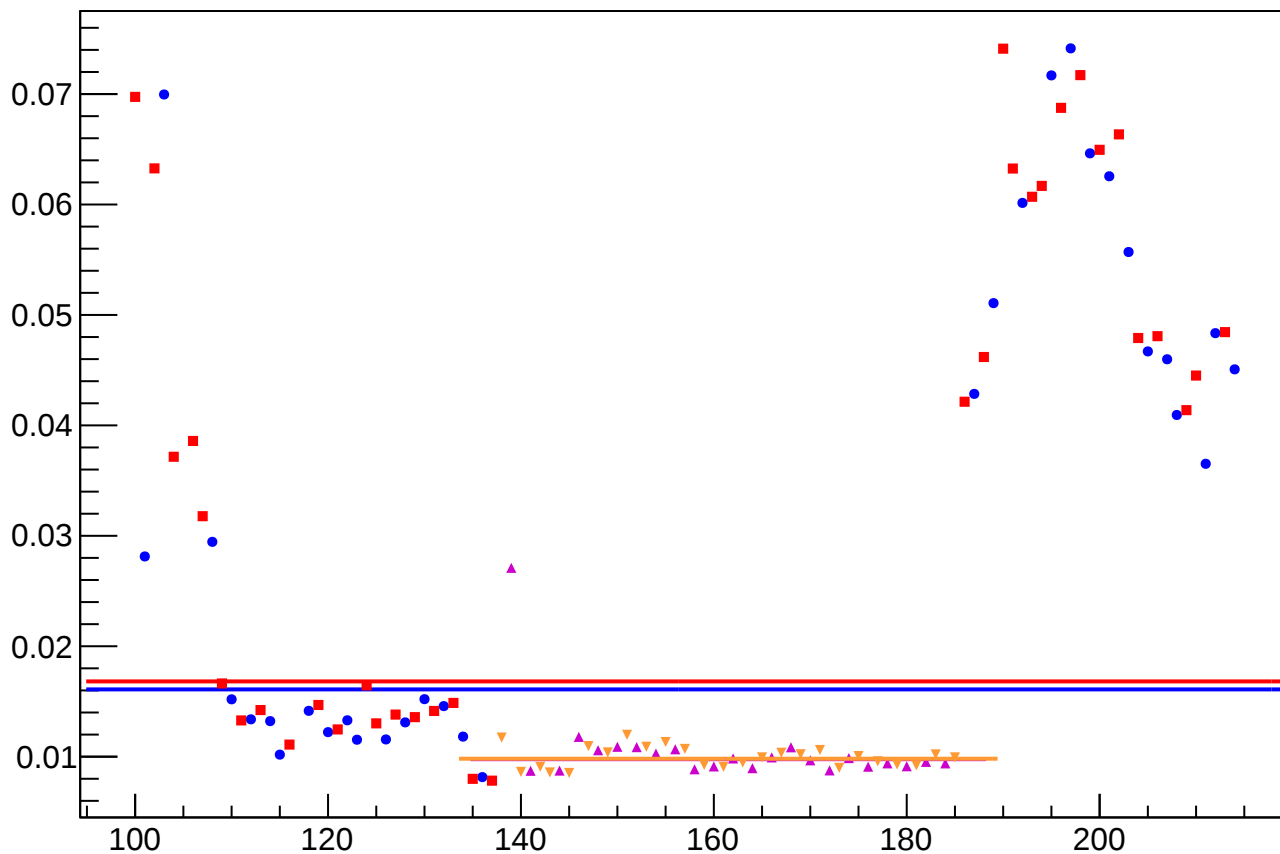
Right: -0.225+/-0.000 χ^2/NDF : 8168234328.2/64

In: -0.394+/-0.000 χ^2/NDF : 6070475177.0/53

Out: -0.401+/-0.000 χ^2/NDF : 4628598494.8/58

All: -0.398+/-0.000 χ^2/NDF : 10703465545.8/112

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 11949146.8/30

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.017+/-0.000 χ^2/NDF : 12265026.3/33

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

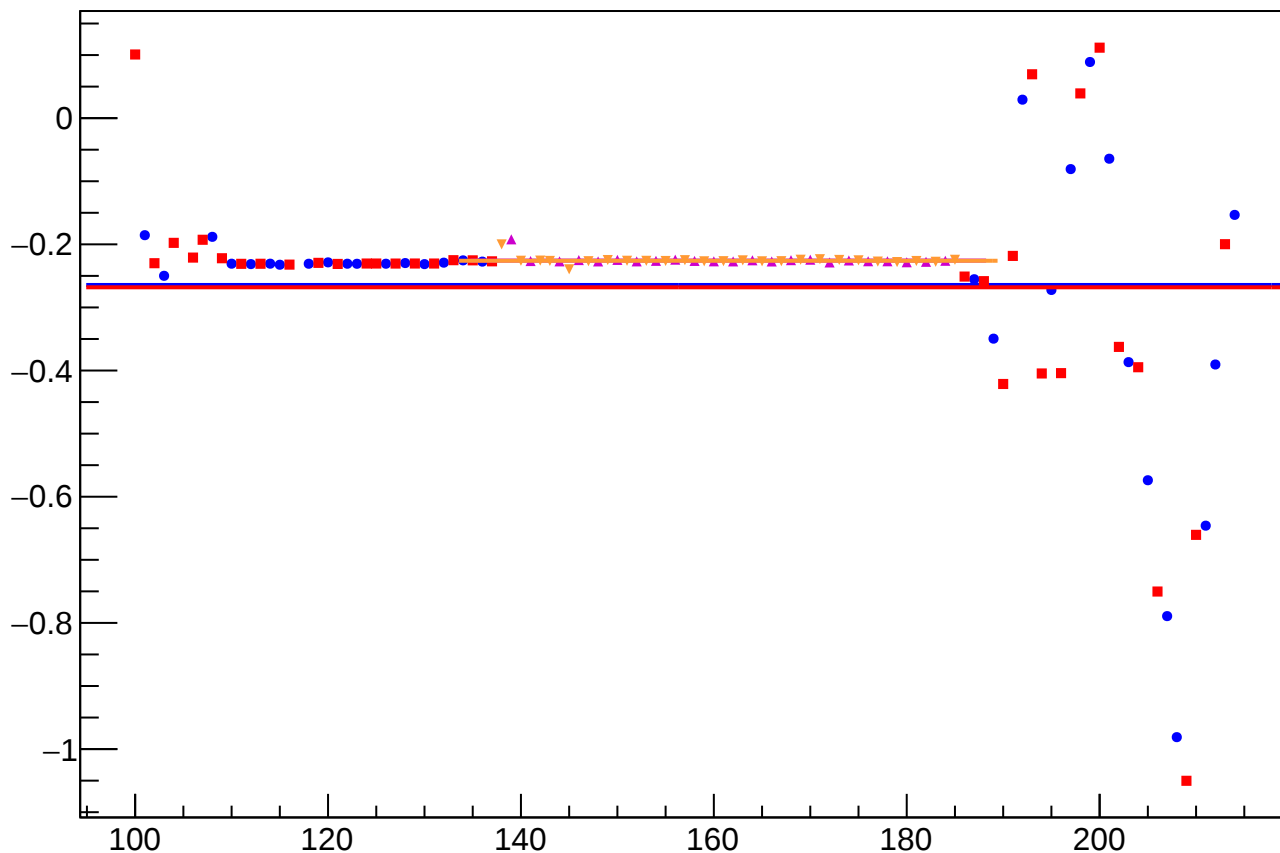
Right: 0.016+/-0.000 χ^2/NDF : 24232111.7/64

In: 0.011+/-0.000 χ^2/NDF : 15021389.0/53

Out: 0.011+/-0.000 χ^2/NDF : 15238191.1/58

All: 0.011+/-0.000 χ^2/NDF : 30260065.1/112

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.264+/-0.000

χ^2/NDF : 25065621513.2/30

Left: -0.226+/-0.000

χ^2/NDF : 34951372.2/47

Left Out: -0.226+/-0.000

χ^2/NDF : 21207366.3/24

Right: -0.266+/-0.000

χ^2/NDF : 50302524466.9/64

Right Out: -0.268+/-0.000

χ^2/NDF : 25233439034.9/33

In: -0.243+/-0.000

χ^2/NDF : 25492406634.5/53

Out: -0.244+/-0.000

χ^2/NDF : 25769183104.1/58

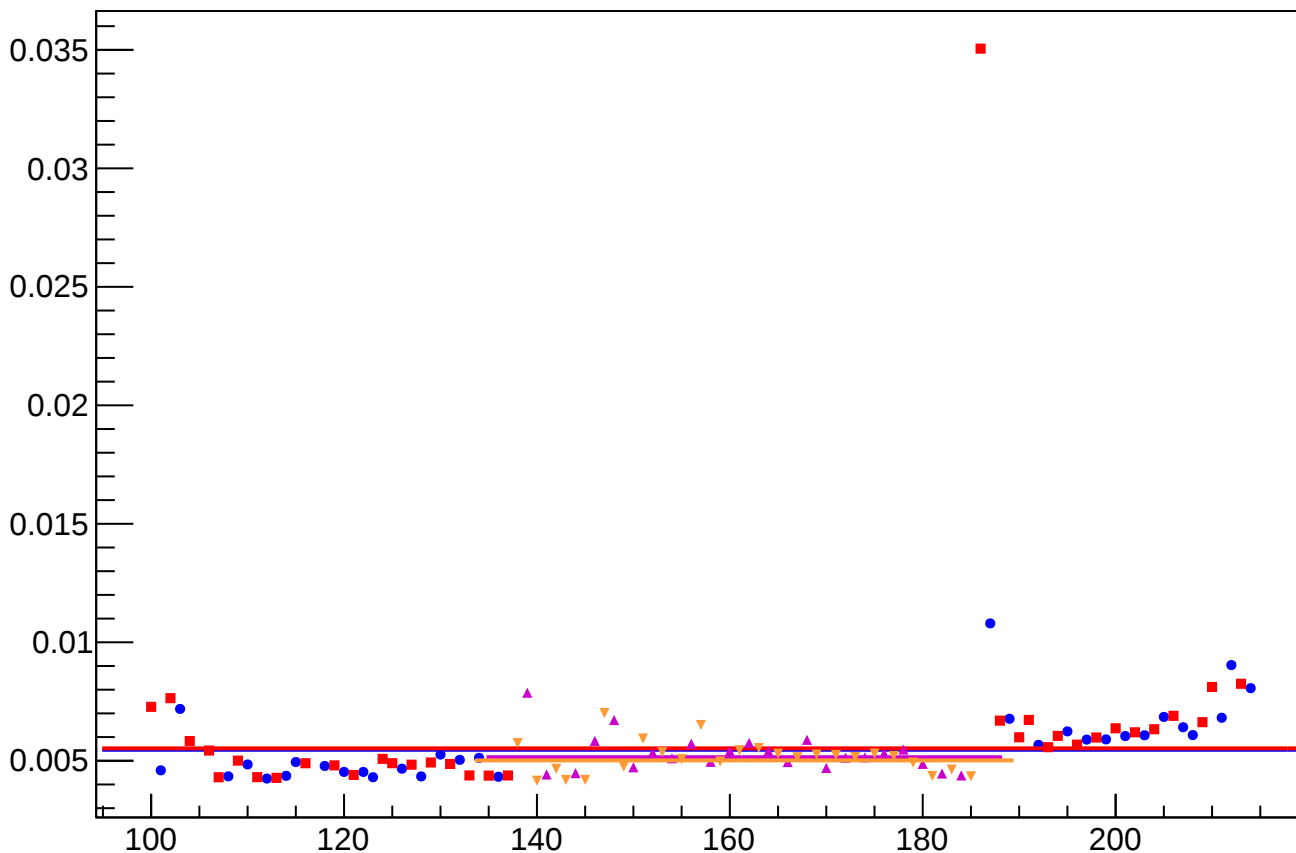
Left In: -0.226+/-0.000

χ^2/NDF : 13717302.5/22

All: -0.243+/-0.000

χ^2/NDF : 51261991093.7/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1223144.1/30

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

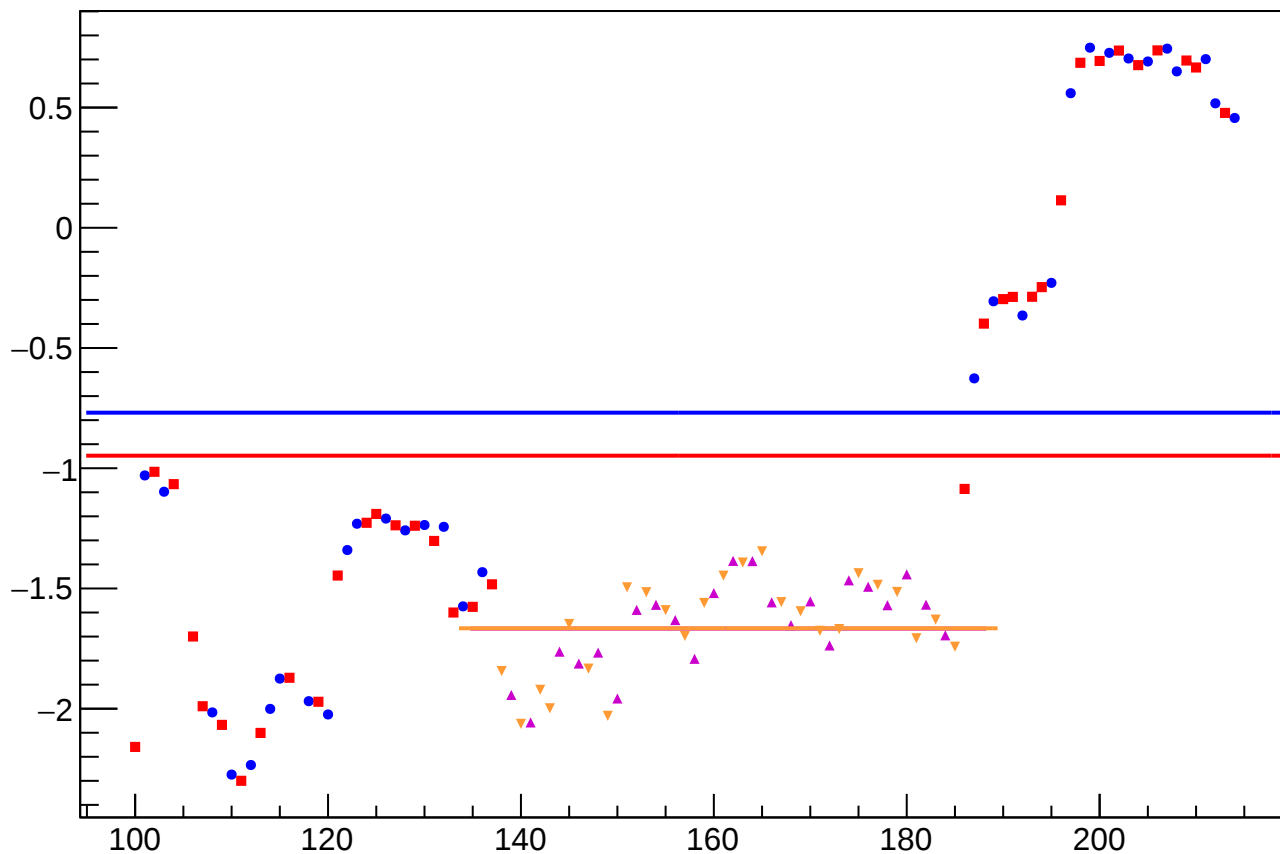
Right: 0.005+/-0.000 χ^2/NDF : 2834003.4/64

In: 0.005+/-0.000 χ^2/NDF : 1782132.1/53

Out: 0.005+/-0.000 χ^2/NDF : 2291457.0/58

All: 0.005+/-0.000 χ^2/NDF : 4077660.5/112

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.769+/-0.000

χ^2/NDF : 229670872259.6/30

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -0.864+/-0.000

χ^2/NDF : 484094607393.7/64

Right Out: -0.948+/-0.000

χ^2/NDF : 250618035468.2/33

In: -1.352+/-0.000

χ^2/NDF : 361432854449.0/53

Out: -1.403+/-0.000

χ^2/NDF : 352113612577.0/58

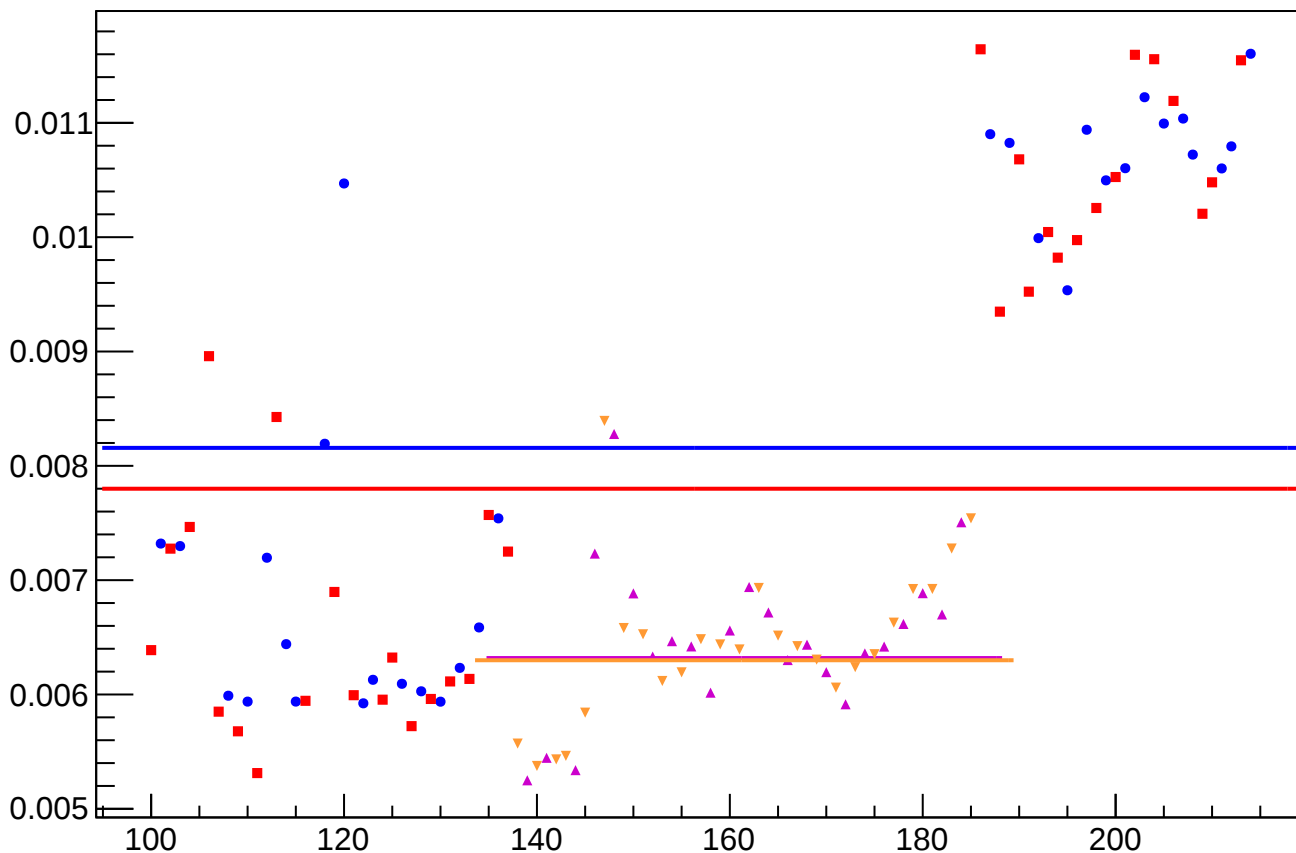
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.379+/-0.000

χ^2/NDF : 714442746967.2

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1973570.9/30

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

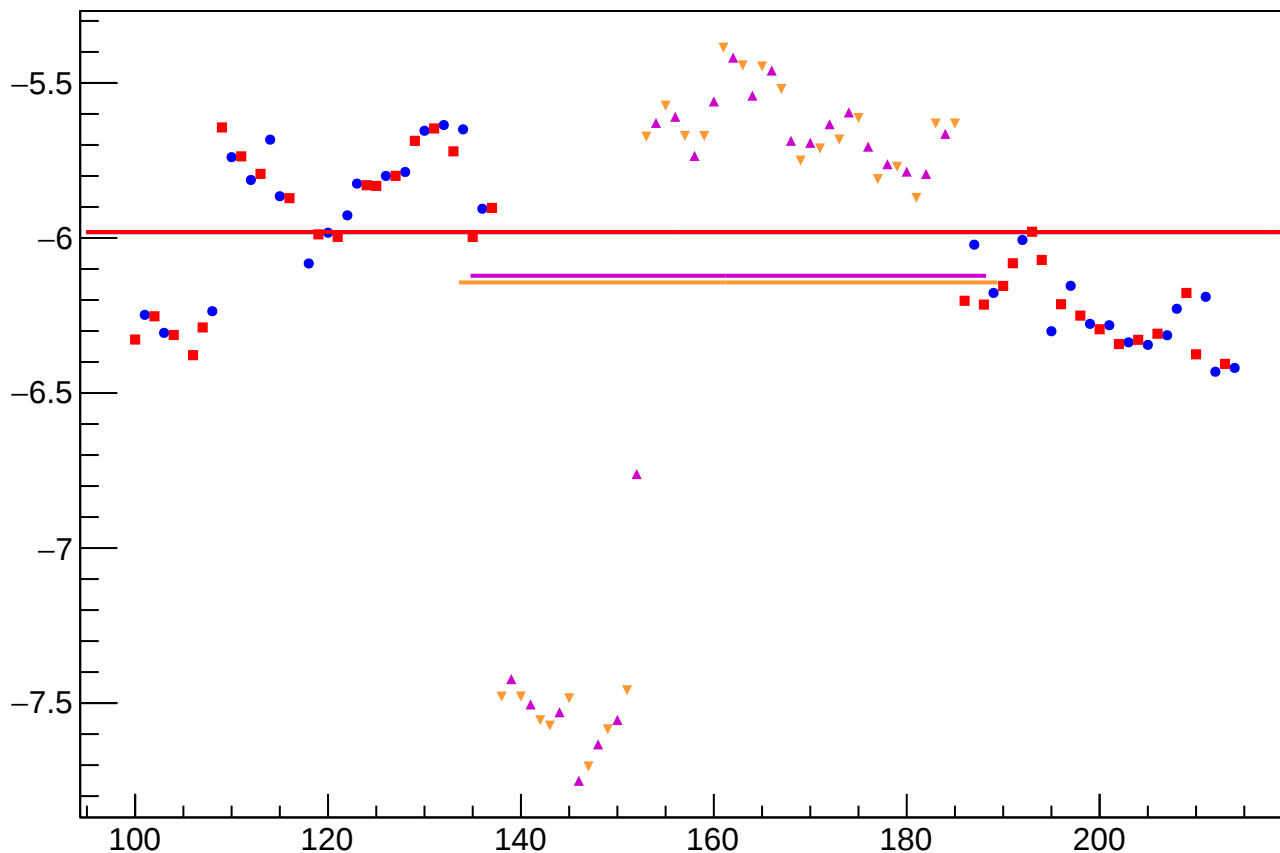
Right: 0.008+/-0.000 χ^2/NDF : 4258466.9/64

In: 0.007+/-0.000 χ^2/NDF : 3289801.8/53

Out: 0.007+/-0.000 χ^2/NDF : 3293379.4/58

All: 0.007+/-0.000 χ^2/NDF : 6592281.6/112

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.981+/-0.000 χ^2/NDF : 16818840219.0/30

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

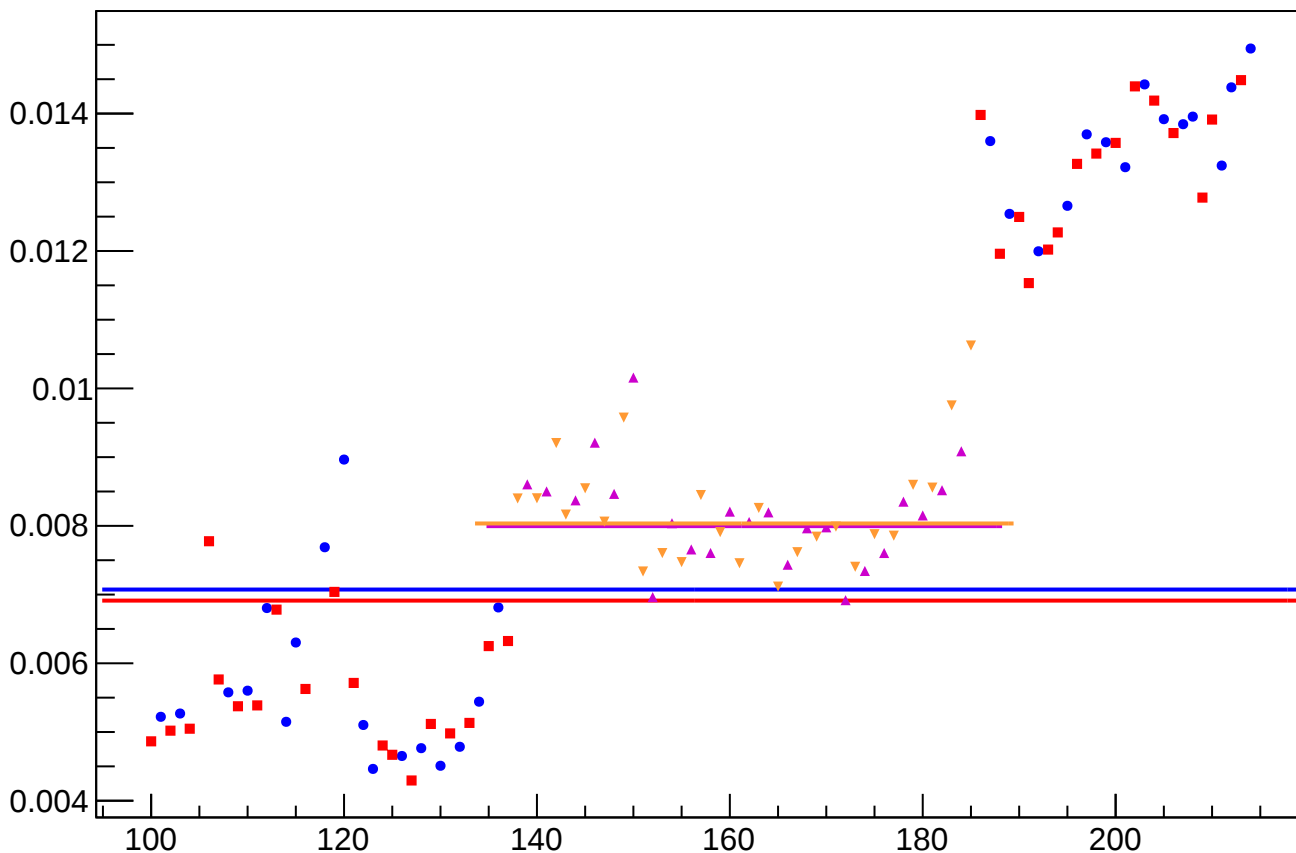
Right: -5.981+/-0.000 χ^2/NDF : 34536313420.9/64

In: -6.051+/-0.000 χ^2/NDF : 179203942843.8/53

Out: -6.059+/-0.000 χ^2/NDF : 206985372771.7/58

All: -6.055+/-0.000 χ^2/NDF : 386205060681.0

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 5911093.6/30

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

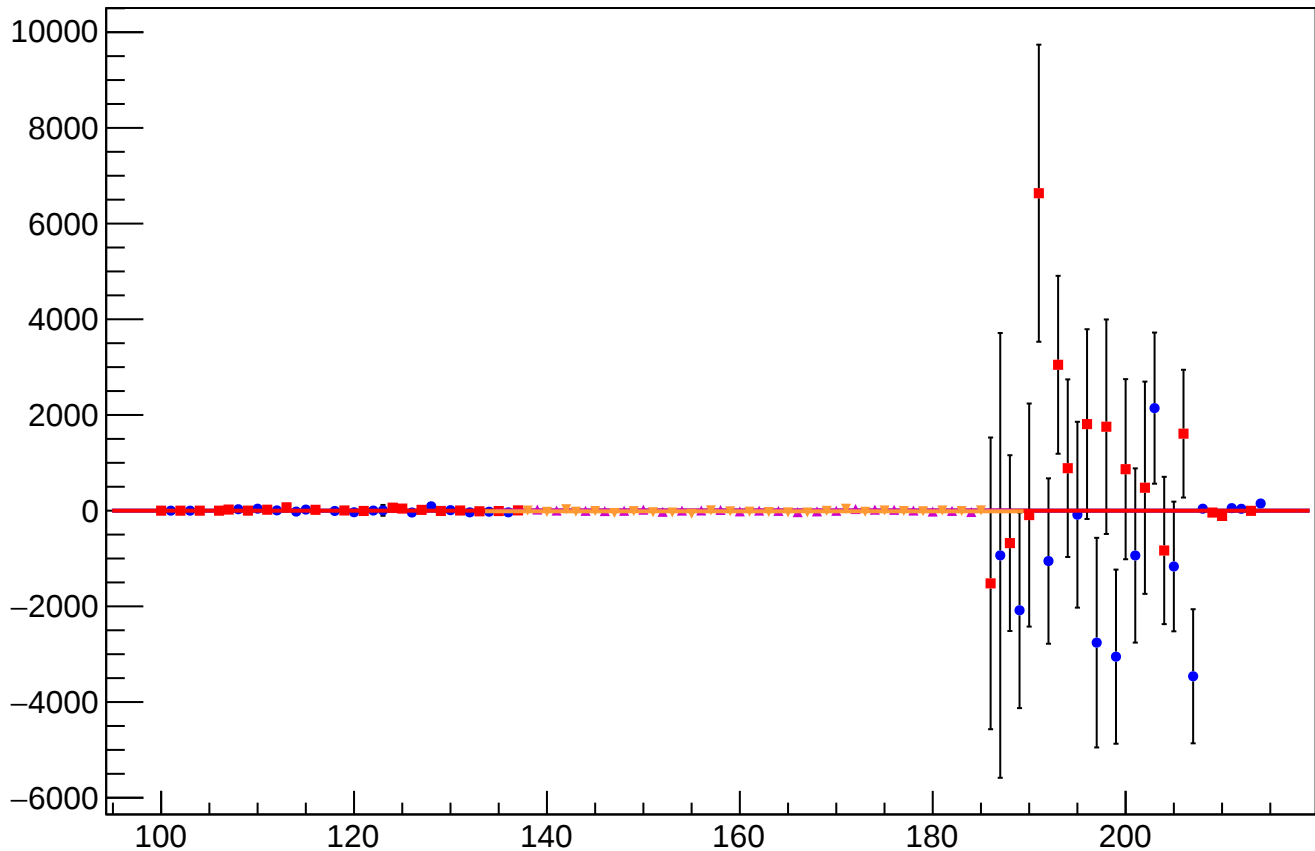
Right: 0.007+/-0.000 χ^2/NDF : 11714809.0/64

In: 0.008+/-0.000 χ^2/NDF :6345471.9/53

Out: 0.007+/-0.000 χ^2/NDF :6340562.2/58

All: 0.007+/-0.000 χ^2/NDF : 12689279.4/112

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2/NDF : 43.5/30

Left Out: -13.472 $\pm$ 2.796 χ^2/NDF : 58.5/24

Right Out: -0.003 $\pm$ 0.016 χ^2/NDF : 32.6/33

Left In: 0.489 $\pm$ 2.905 χ^2/NDF : 28.7/22

Left: -6.758 $\pm$ 2.015 χ^2/NDF : 99.2/47

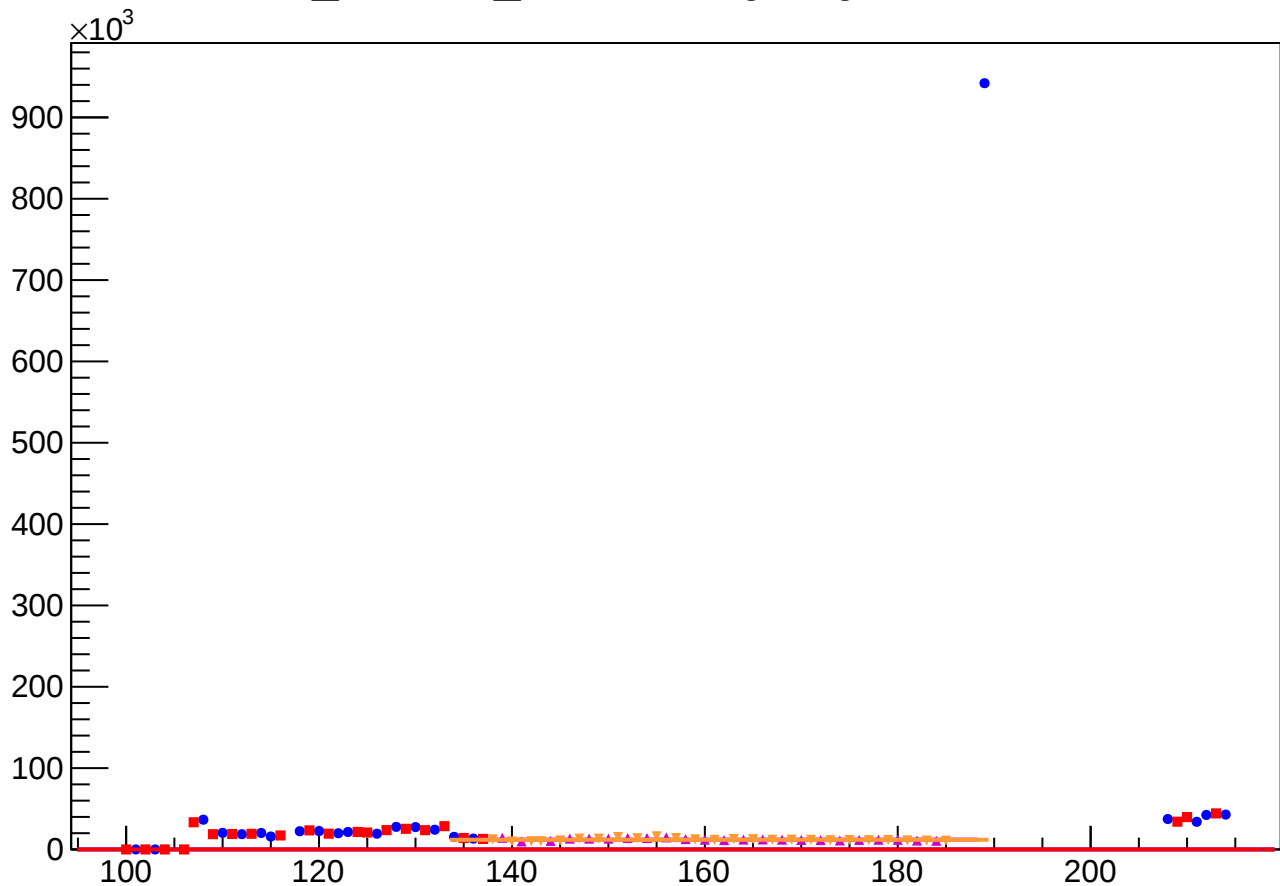
Right: 0.004 $\pm$ 0.012 χ^2/NDF : 76.6/64

In: 0.013 $\pm$ 0.017 χ^2/NDF : 72.2/53

Out: -0.004 $\pm$ 0.016 χ^2/NDF : 114.3/58

All: 0.004 $\pm$ 0.012 χ^2/NDF : 187.0/112

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.662 $\pm$ 0.012 χ^2 /NDF: 16661204.5/21

Left Out: 11909.835 $\pm$ 1.977 χ^2 /NDF: 475310.2/24

Right Out: 18.325 $\pm$ 0.011 χ^2 /NDF: 15370584.5/21

Left In: 12064.321 $\pm$ 2.054 χ^2 /NDF: 372586.0/22

Left: 11984.125 $\pm$ 1.425 χ^2 /NDF: 850831.6/47

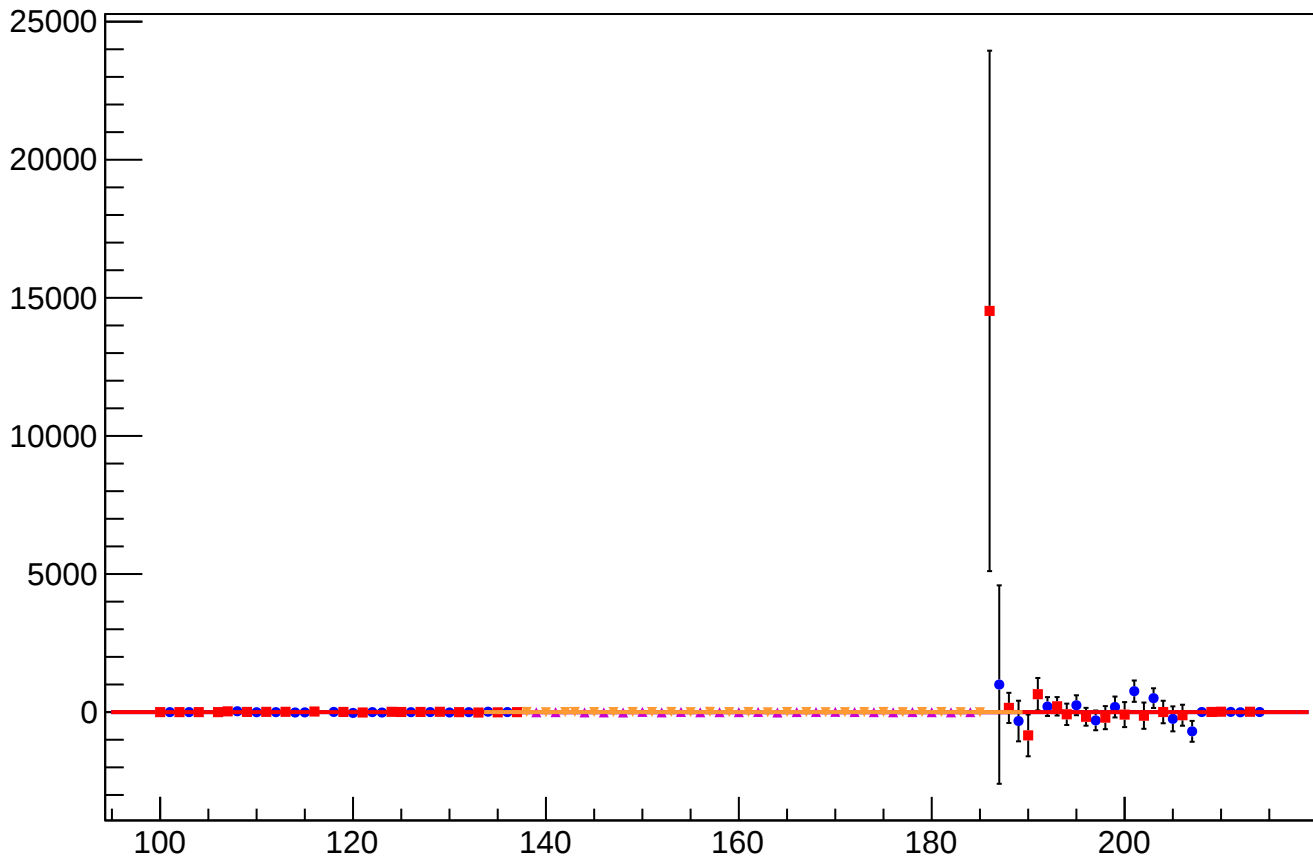
Right: 18.481 $\pm$ 0.008 χ^2 /NDF: 32032195.5/43

In: 19.091 $\pm$ 0.012 χ^2 /NDF: 51411571.4/44

Out: 18.718 $\pm$ 0.011 χ^2 /NDF: 52012938.4/46

All: 18.891 $\pm$ 0.008 χ^2 /NDF: 103425007.6/91

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.009 χ^2/NDF : 28.5/30

Left Out: 1.675+/-1.021 χ^2/NDF : 17.9/24

Right Out: -0.014+/-0.009 χ^2/NDF : 33.0/33

Left In: -0.843+/-1.043 χ^2/NDF : 35.7/22

Left: 0.443+/-0.730 χ^2/NDF : 56.5/47

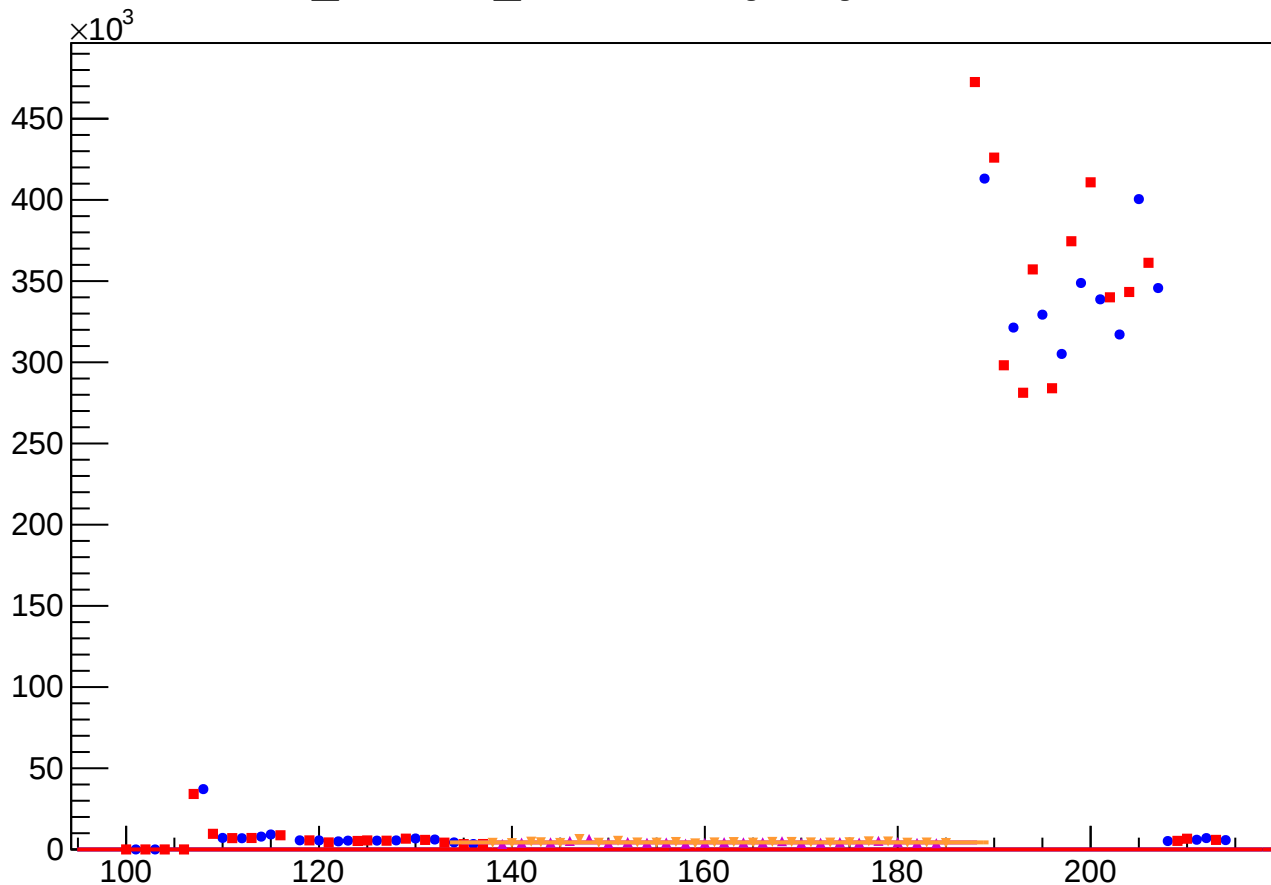
Right: -0.007+/-0.006 χ^2/NDF : 62.9/64

In: 0.001+/-0.009 χ^2/NDF : 64.8/53

Out: -0.014+/-0.009 χ^2/NDF : 53.7/58

All: -0.007+/-0.006 χ^2/NDF : 119.8/112

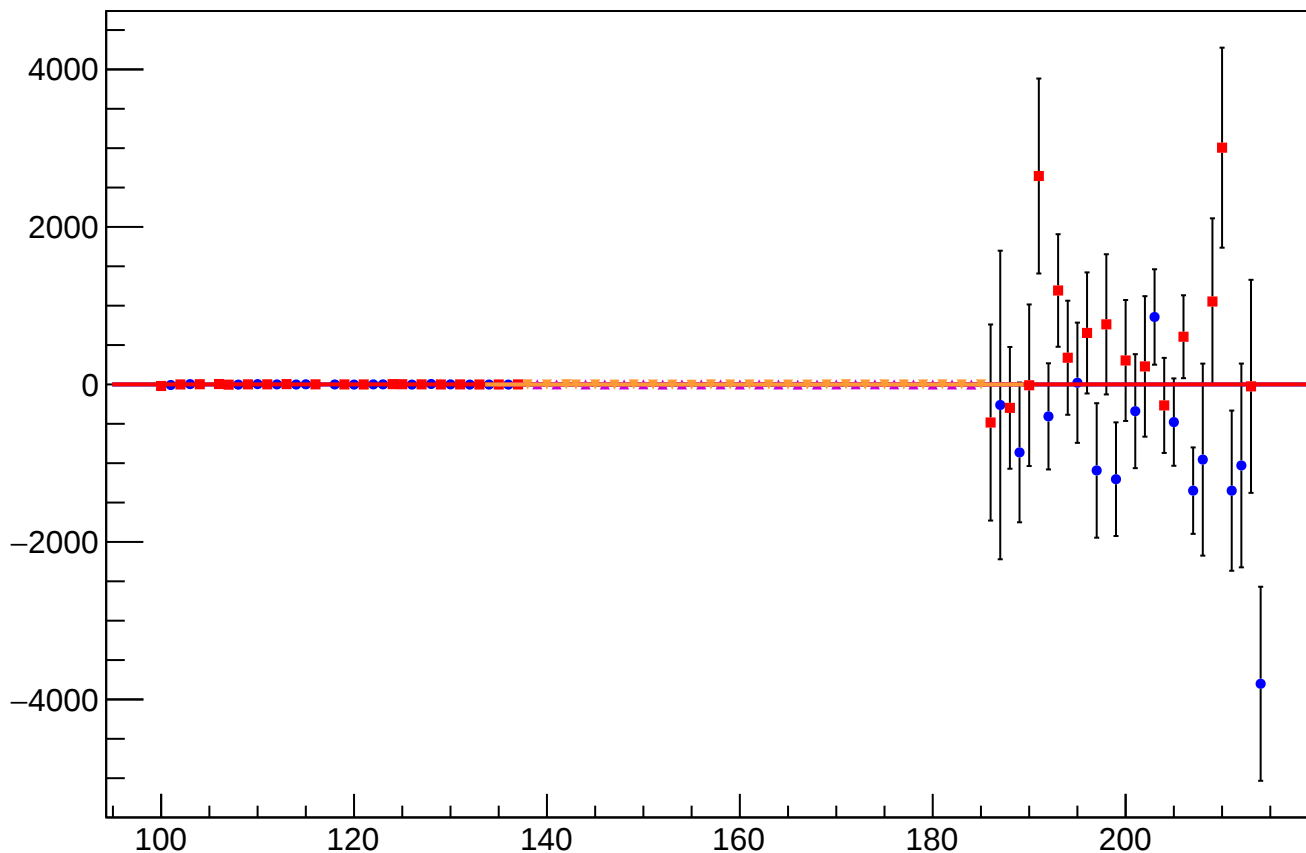
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.979 $\pm$ 0.007 χ^2 /NDF: 30111787.8/29
 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: 9.928 $\pm$ 0.004 χ^2 /NDF: 60269491.6/62
 In: 10.314 $\pm$ 0.007 χ^2 /NDF:64707160.3/52
 Out: 10.194 $\pm$ 0.006 χ^2 /NDF:66686840.6/57
 All: 10.251 $\pm$ 0.004 χ^2 /NDF: 131394181.9/111

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.706 ± 0.485 $\chi^2/\text{NDF}: 49.7/30$

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 $\chi^2/\text{NDF}: 98.9/47$

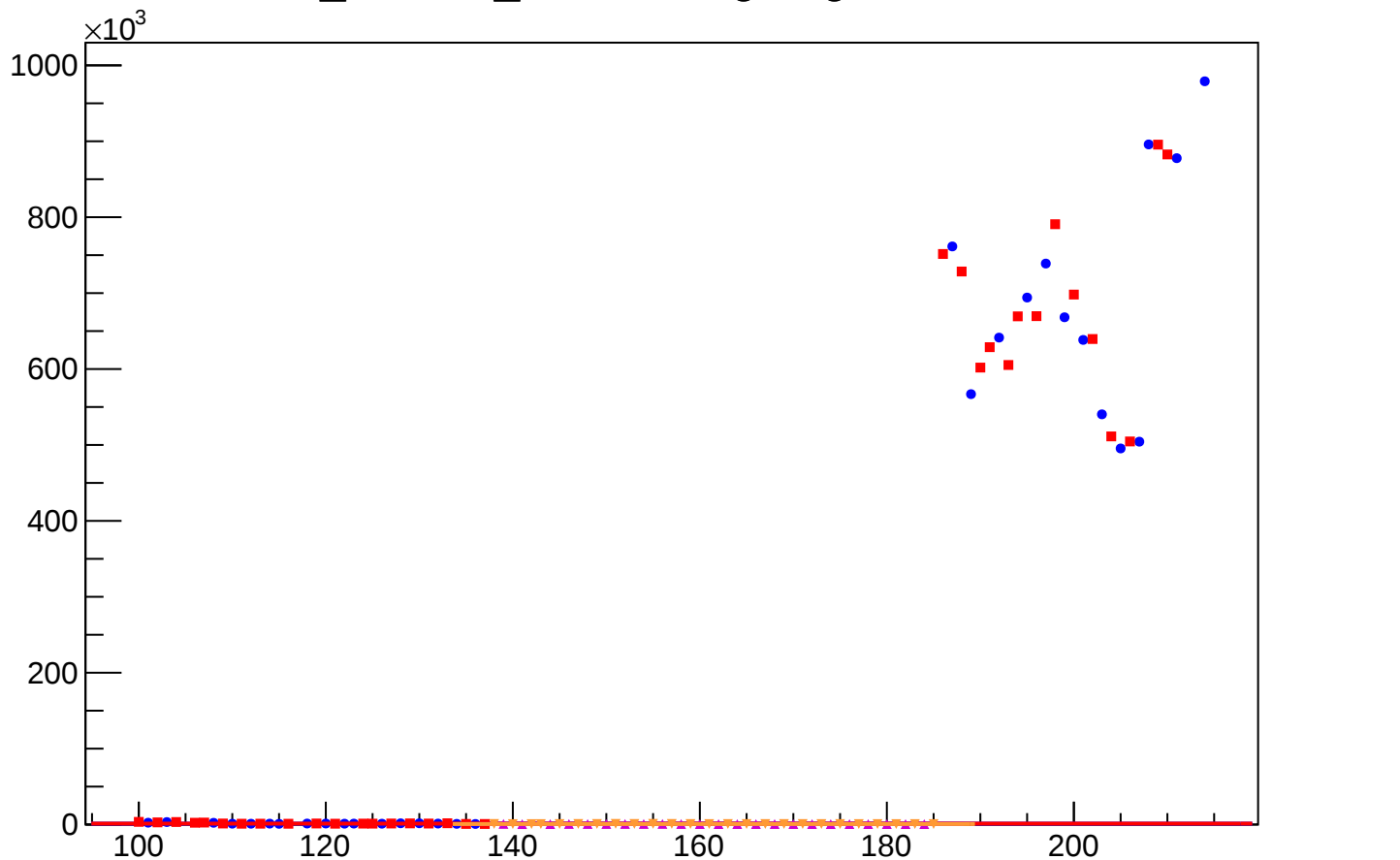
Right: 0.003 ± 0.349 $\chi^2/\text{NDF}: 83.6/64$

In: -0.059 ± 0.161 $\chi^2/\text{NDF}: 81.0/53$

Out: -0.626 ± 0.156 $\chi^2/\text{NDF}: 96.3/58$

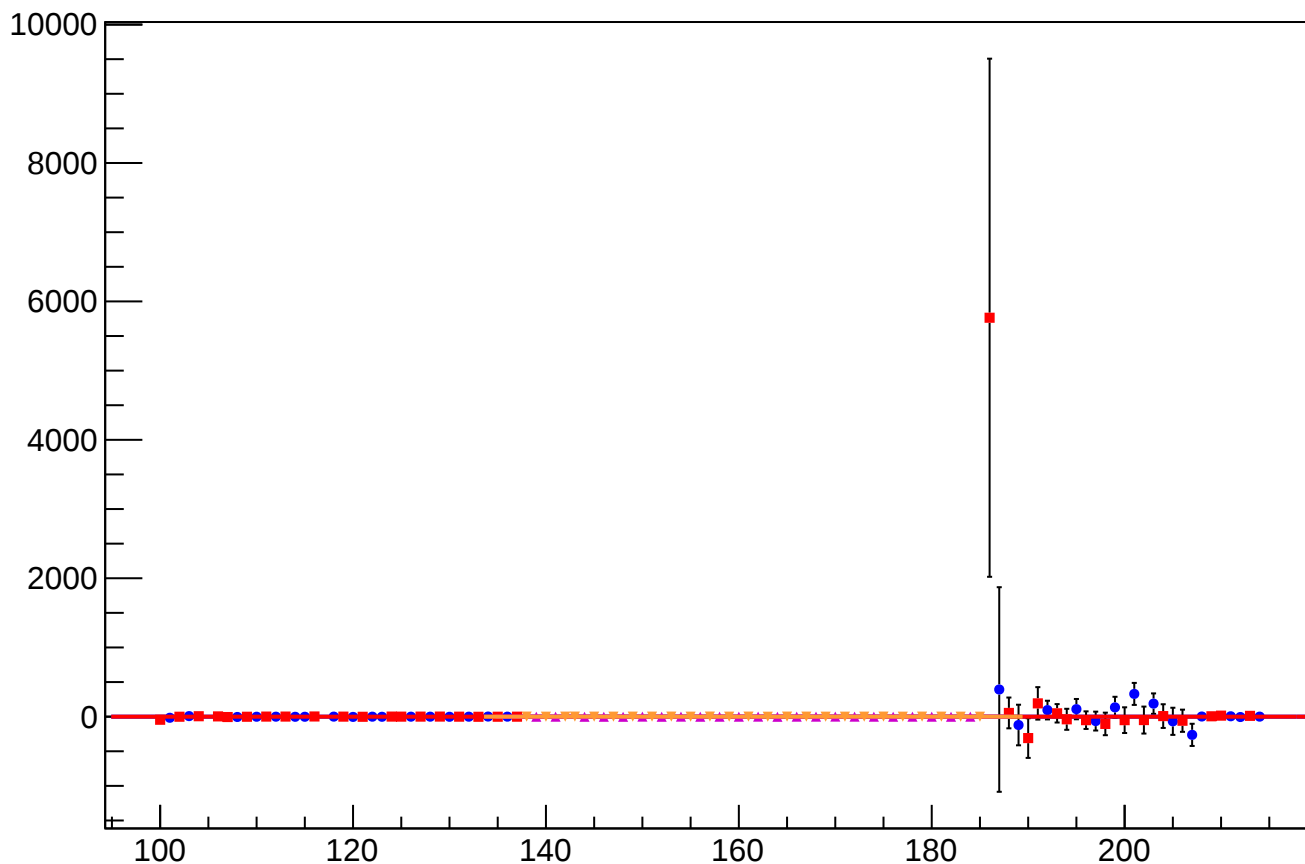
All: -0.350 ± 0.112 $\chi^2/\text{NDF}: 183.6/112$

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.332 $\pm$ 0.343 χ^2/NDF : 18431392.8/29
 Left: 703.766 $\pm$ 0.084 χ^2/NDF : 732052.1/47
 Left Out: 700.797 $\pm$ 0.116 χ^2/NDF : 392521.4/24
 Right: 1208.502 $\pm$ 0.247 χ^2/NDF : 37443175.1/62
 Right Out: 1252.624 $\pm$ 0.355 χ^2/NDF : 18981927.6/32
 In: 757.386 $\pm$ 0.114 χ^2/NDF : 20374181.5/52
 Left In: 706.950 $\pm$ 0.120 χ^2/NDF : 338177.1/22
 Out: 754.172 $\pm$ 0.110 χ^2/NDF : 21556615.4/57
 All: 755.735 $\pm$ 0.079 χ^2/NDF : 41931208.8/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.046 ± 0.269 χ^2/NDF : 33.7/30

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

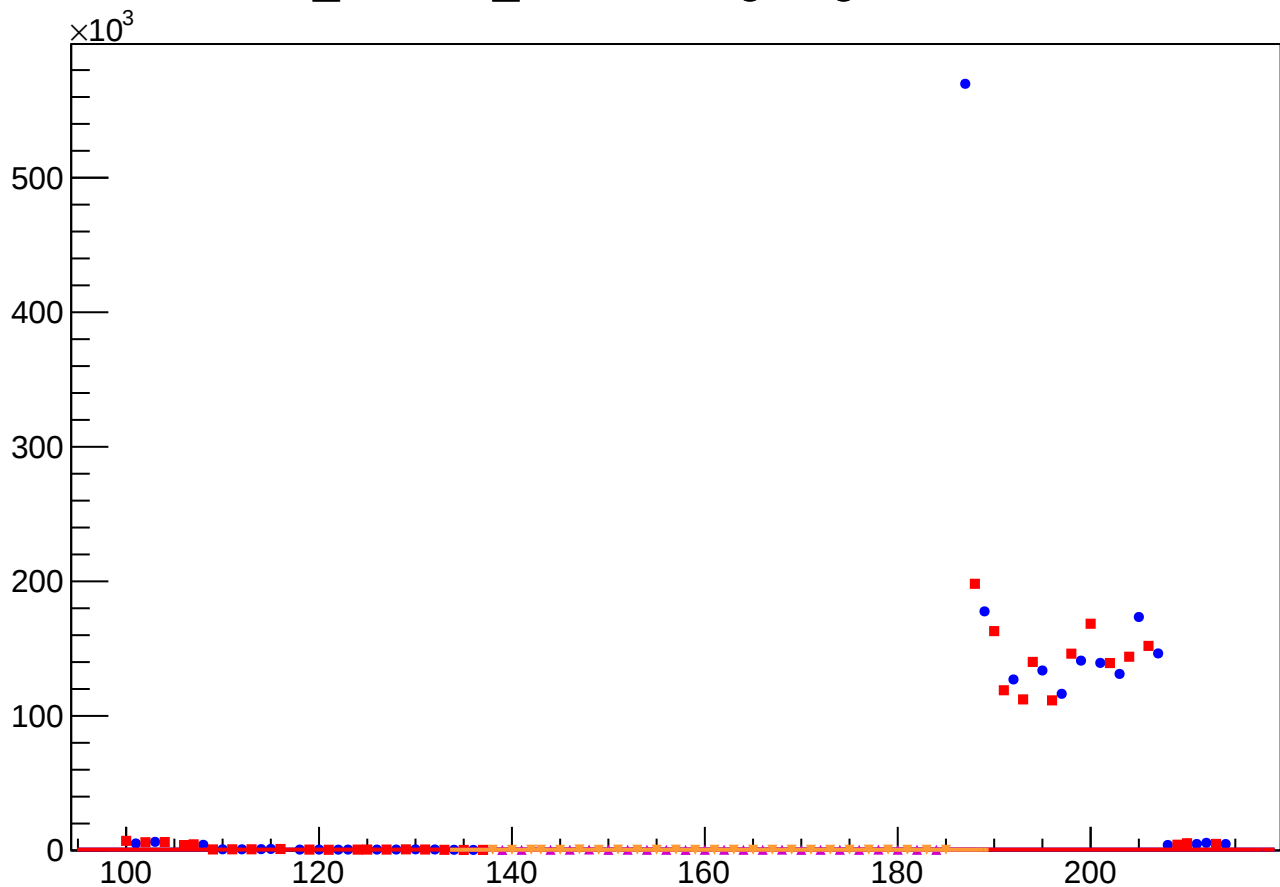
Right: -0.113 ± 0.189 χ^2/NDF : 71.1/64

In: -0.103 ± 0.114 χ^2/NDF : 68.8/53

Out: 0.163 ± 0.111 χ^2/NDF : 56.8/58

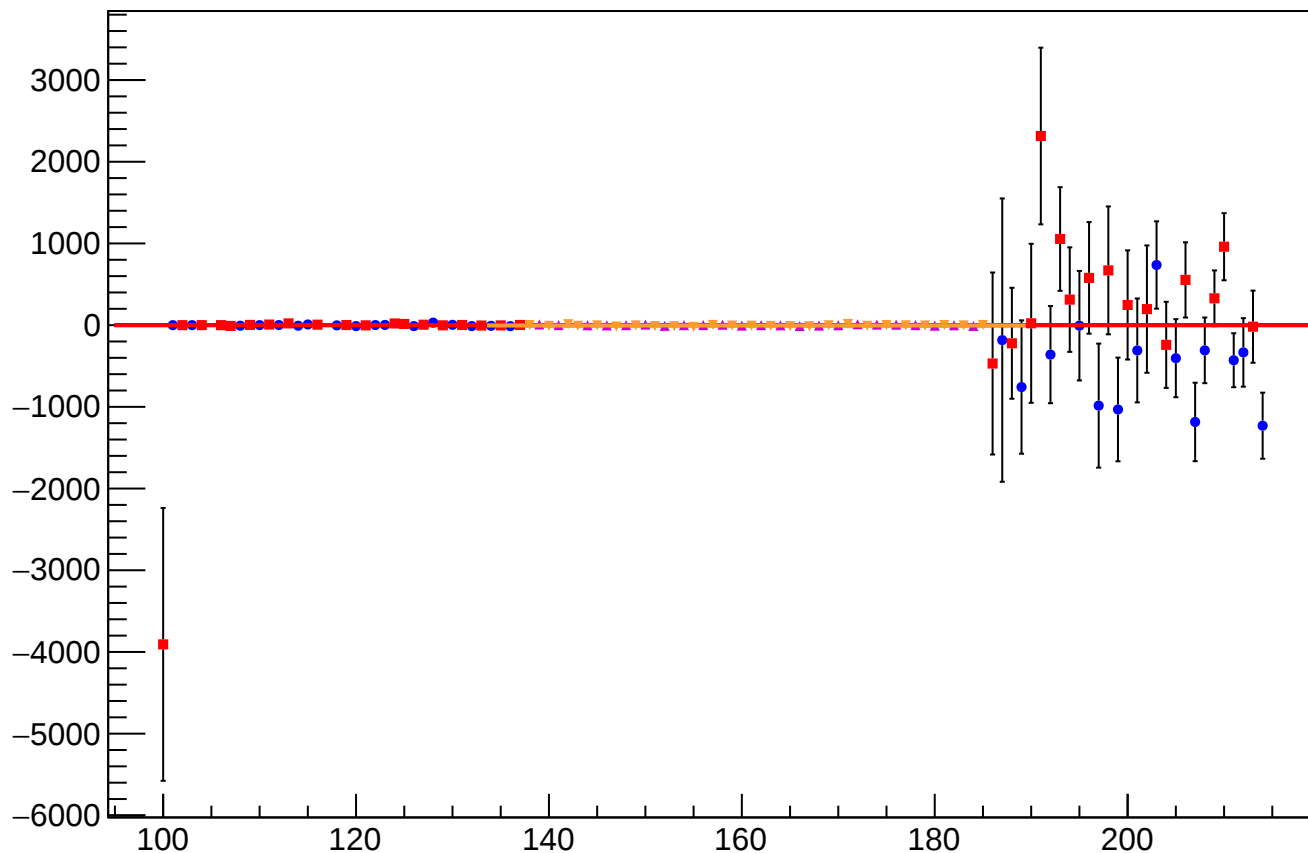
All: 0.033 ± 0.079 χ^2/NDF : 128.3/112

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 649.319+/-0.190	χ^2/NDF : 21260943.2/30	Left: 521.193+/-0.062	χ^2/NDF : 776728.3/47
Left Out: 522.416+/-0.087	χ^2/NDF : 331573.1/24	Right: 639.770+/-0.133	χ^2/NDF : 42847629.8/63
Right Out: 630.598+/-0.187	χ^2/NDF : 21581758.2/32	In: 542.991+/-0.080	χ^2/NDF : 22085027.2/53
Left In: 519.909+/-0.089	χ^2/NDF : 444746.3/22	Out: 541.581+/-0.079	χ^2/NDF : 22189734.8/57
		All: 542.270+/-0.056	χ^2/NDF : 44274919.3/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 42.3/30

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

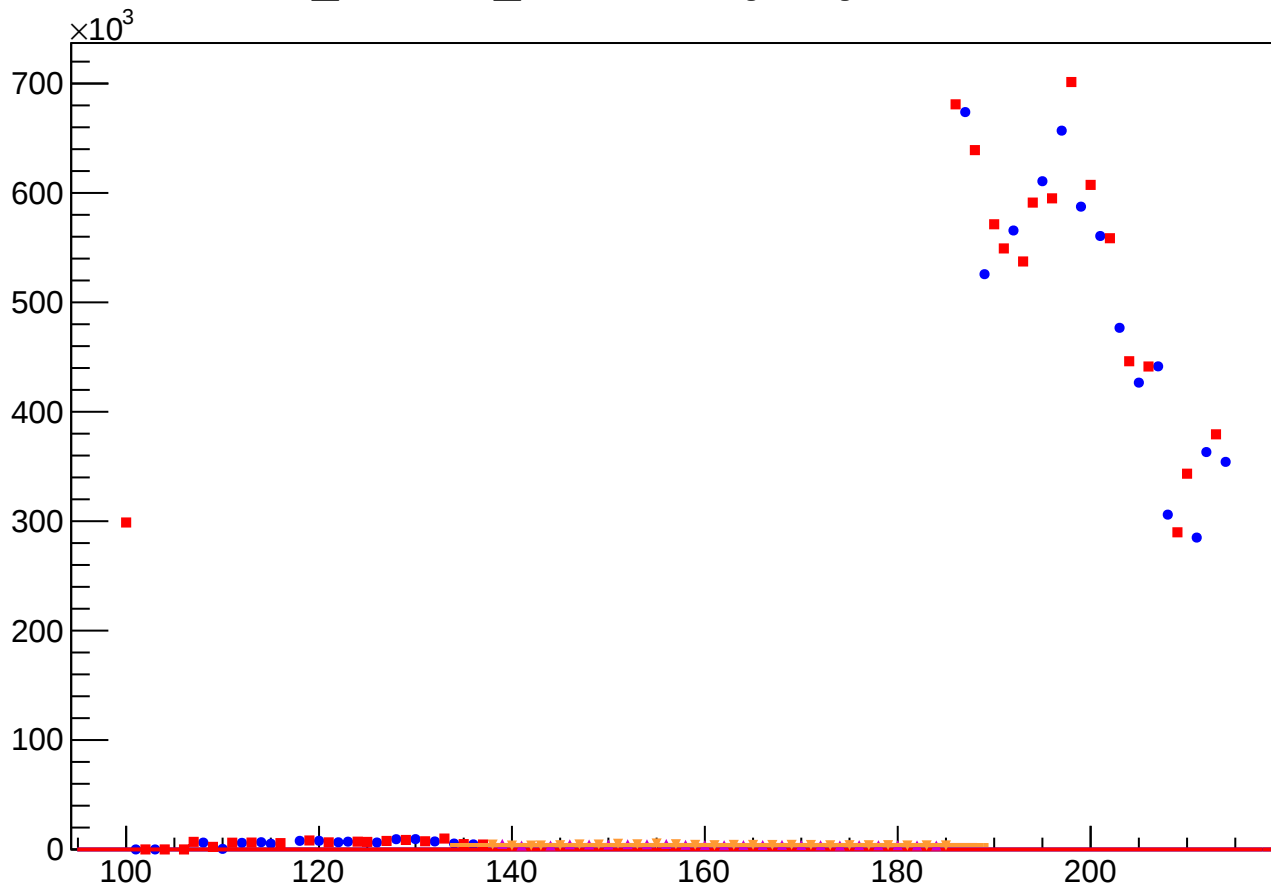
Right: 0.004 ± 0.014 χ^2/NDF : 79.5/64

In: -0.022 ± 0.021 χ^2/NDF : 71.6/53

Out: 0.025 ± 0.020 χ^2/NDF : 114.8/58

All: 0.003 ± 0.014 χ^2/NDF : 189.0/112

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.345+/-0.015 χ^2/NDF : 30247131.3/30

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

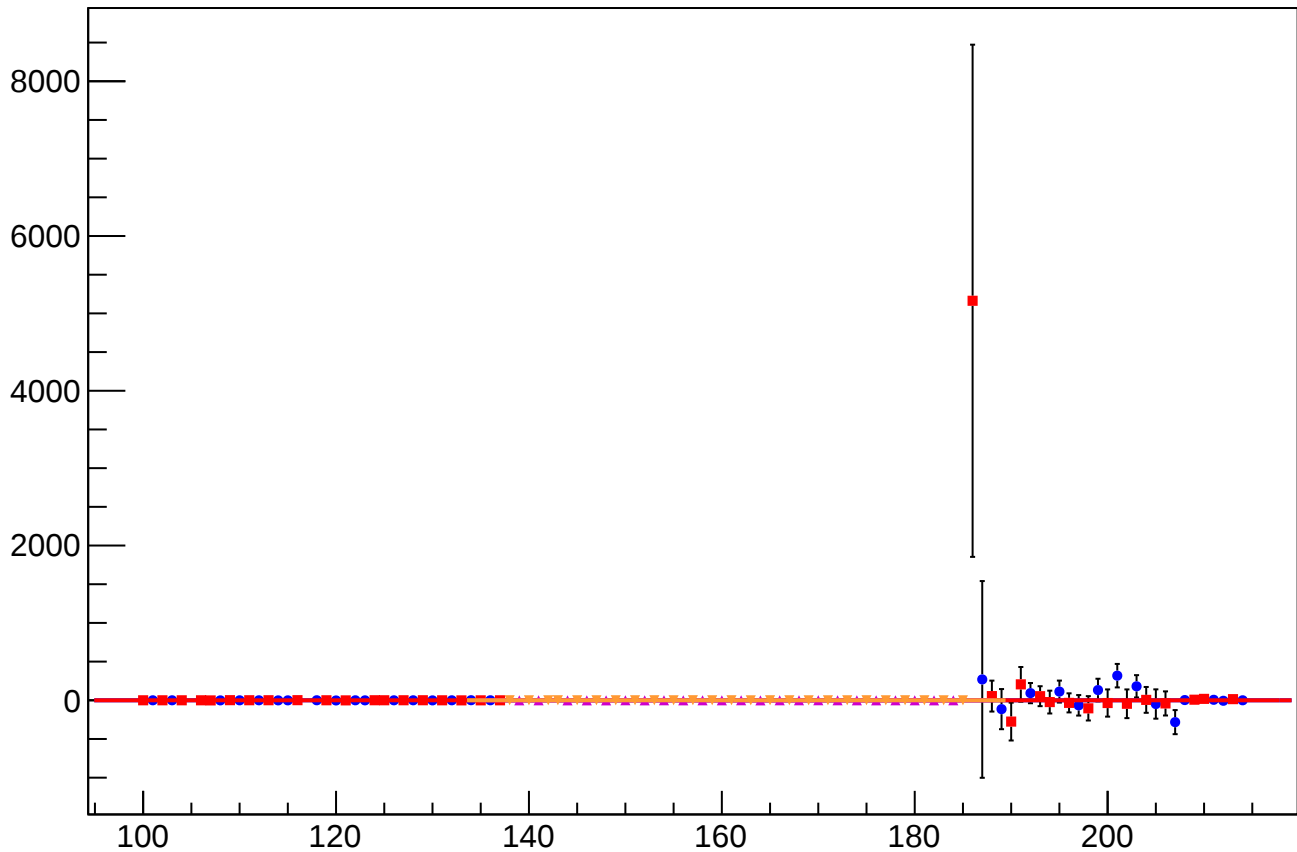
Right: 17.308+/-0.010 χ^2/NDF : 61248875.8/64

In: 19.151+/-0.015 χ^2/NDF : 64816219.7/53

Out: 19.012+/-0.014 χ^2/NDF : 67454584.9/58

All: 19.078+/-0.010 χ^2/NDF : 132270851.3/111

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 28.9/30

Left Out: 0.151 ± 0.076 χ^2/NDF : 16.8/24

Right Out: -0.001 ± 0.002 χ^2/NDF : 35.6/33

Left In: -0.075 ± 0.078 χ^2/NDF : 34.8/22

Left: 0.041 ± 0.055 χ^2/NDF : 55.8/47

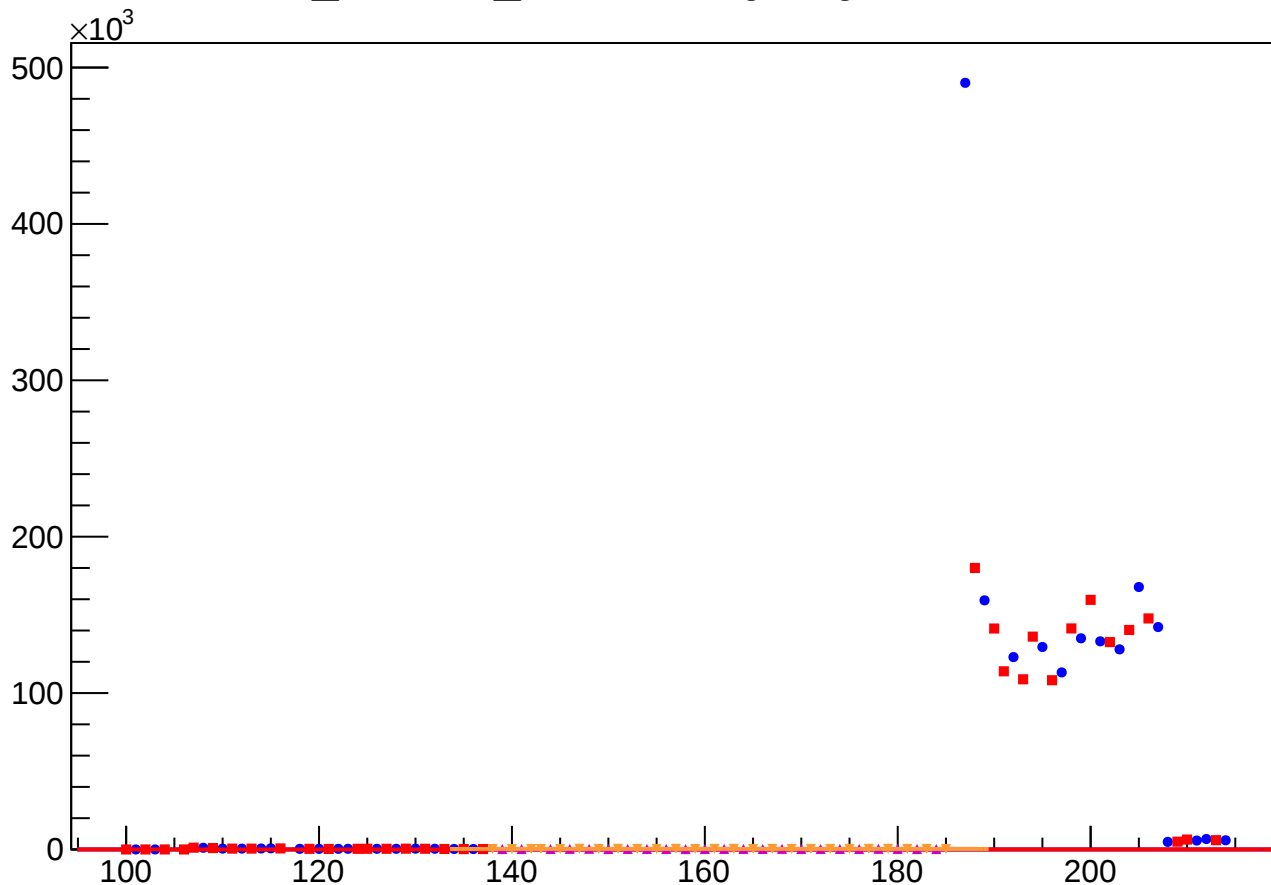
Right: -0.000 ± 0.001 χ^2/NDF : 64.7/64

In: 0.000 ± 0.002 χ^2/NDF : 64.6/53

Out: -0.001 ± 0.002 χ^2/NDF : 56.4/58

All: -0.000 ± 0.001 χ^2/NDF : 121.1/112

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.701 $\pm$ 0.001 χ^2 /NDF: 30511767.3/30

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

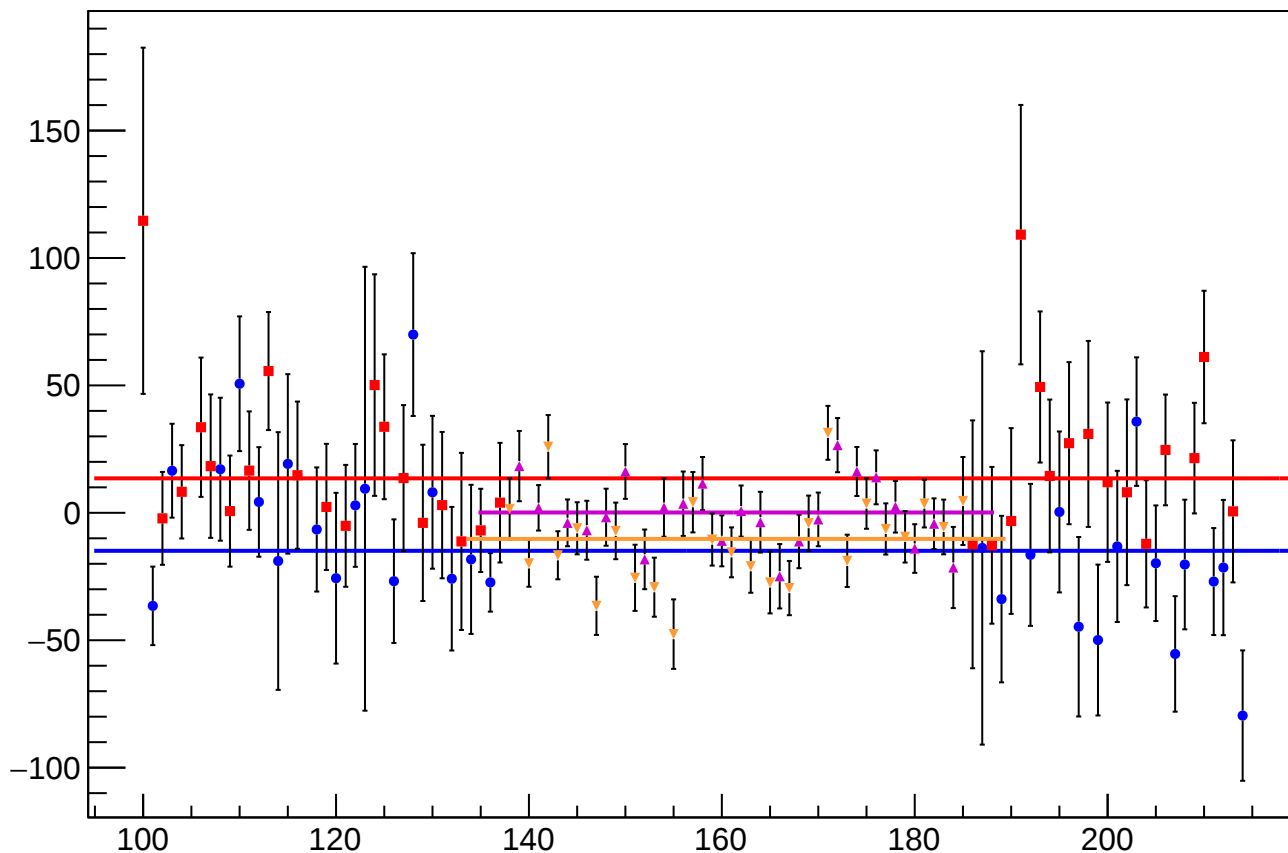
Right: 1.716 $\pm$ 0.001 χ^2 /NDF: 60454001.3/63

In: 1.916 $\pm$ 0.001 χ^2 /NDF:64914766.4/53

Out: 1.938 $\pm$ 0.001 χ^2 /NDF:66249509.4/57

All: 1.928 $\pm$ 0.001 χ^2 /NDF: 131164406.7/111

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -14.908 $\pm$ 4.465 χ^2/NDF : 40.9/30

Left Out: -10.235 $\pm$ 2.167 χ^2/NDF : 58.0/24

Right Out: 13.526 $\pm$ 4.571 χ^2/NDF : 23.7/33

Left In: 0.130 $\pm$ 2.242 χ^2/NDF : 29.8/22

Left: -5.230 $\pm$ 1.558 χ^2/NDF : 98.9/47

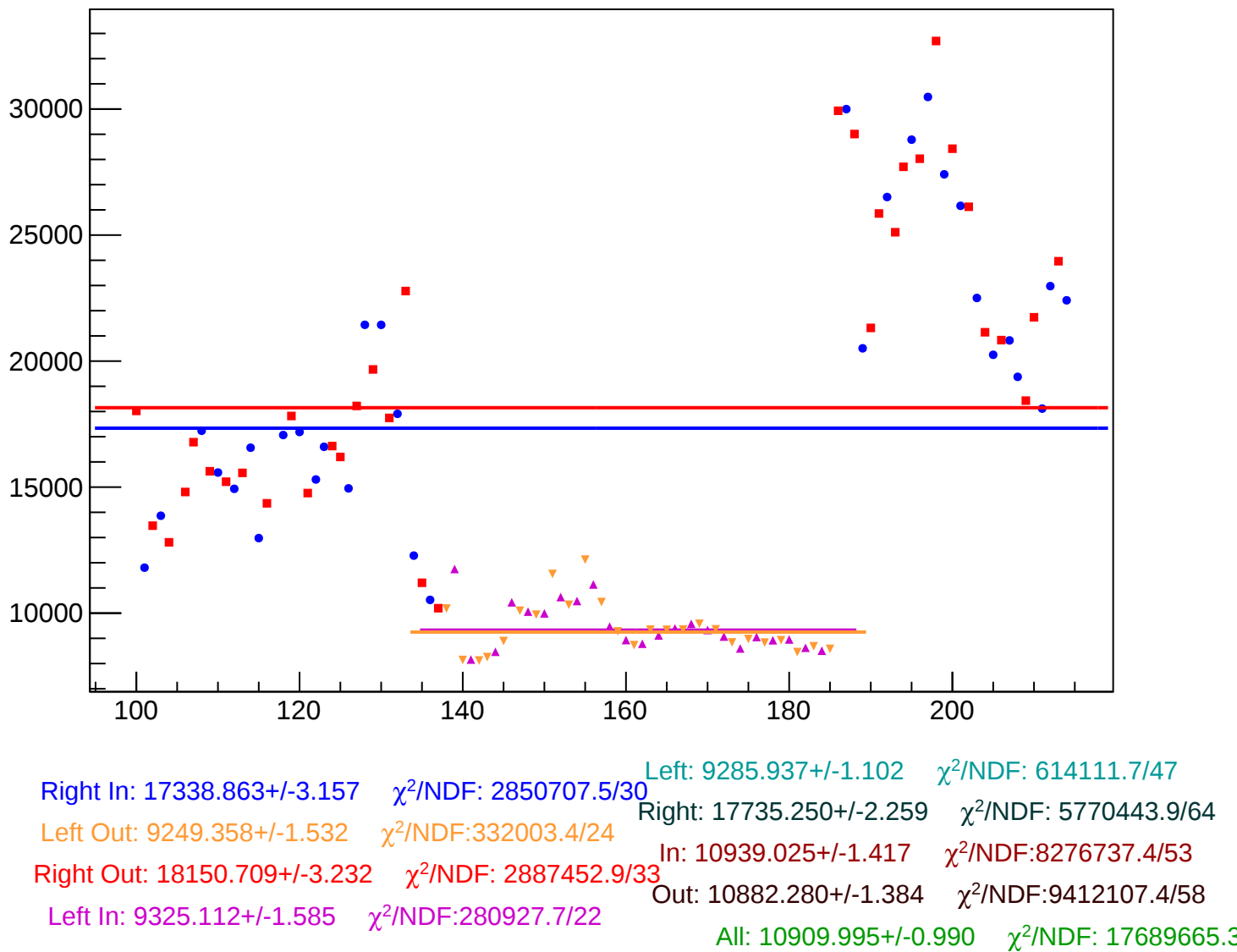
Right: -1.025 $\pm$ 3.194 χ^2/NDF : 84.4/64

In: -2.899 $\pm$ 2.004 χ^2/NDF : 79.8/53

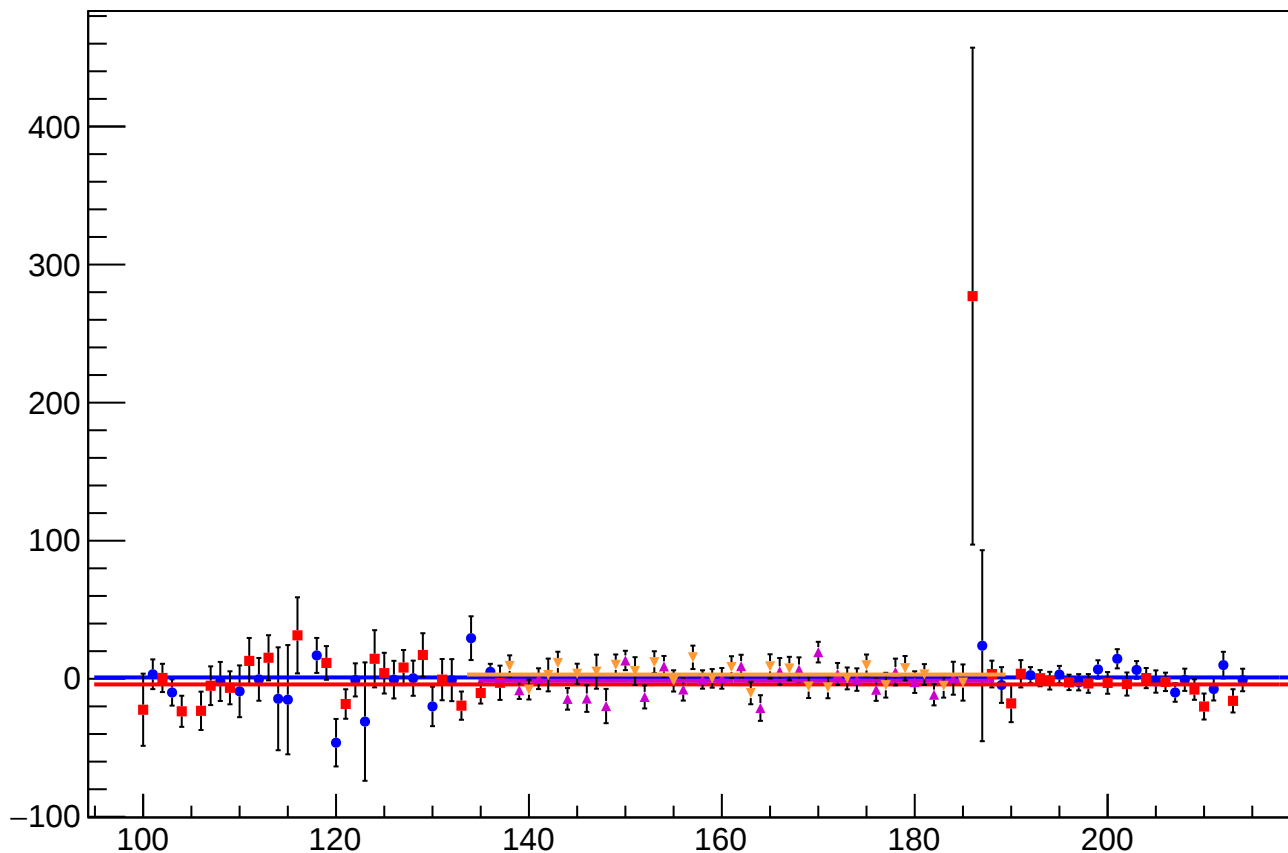
Out: -5.876 $\pm$ 1.958 χ^2/NDF : 103.7/58

All: -4.422 $\pm$ 1.400 χ^2/NDF : 184.7/112

diff_bpm4aX_rms vs Slug, Sign Corrected



diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.976 ± 1.677 χ^2/NDF : 28.5/30

Left Out: 3.062 ± 1.659 χ^2/NDF : 18.3/24

Right Out: -4.077 ± 1.658 χ^2/NDF : 31.2/33

Left In: -1.394 ± 1.693 χ^2/NDF : 35.4/22

Left: 0.879 ± 1.185 χ^2/NDF : 57.2/47

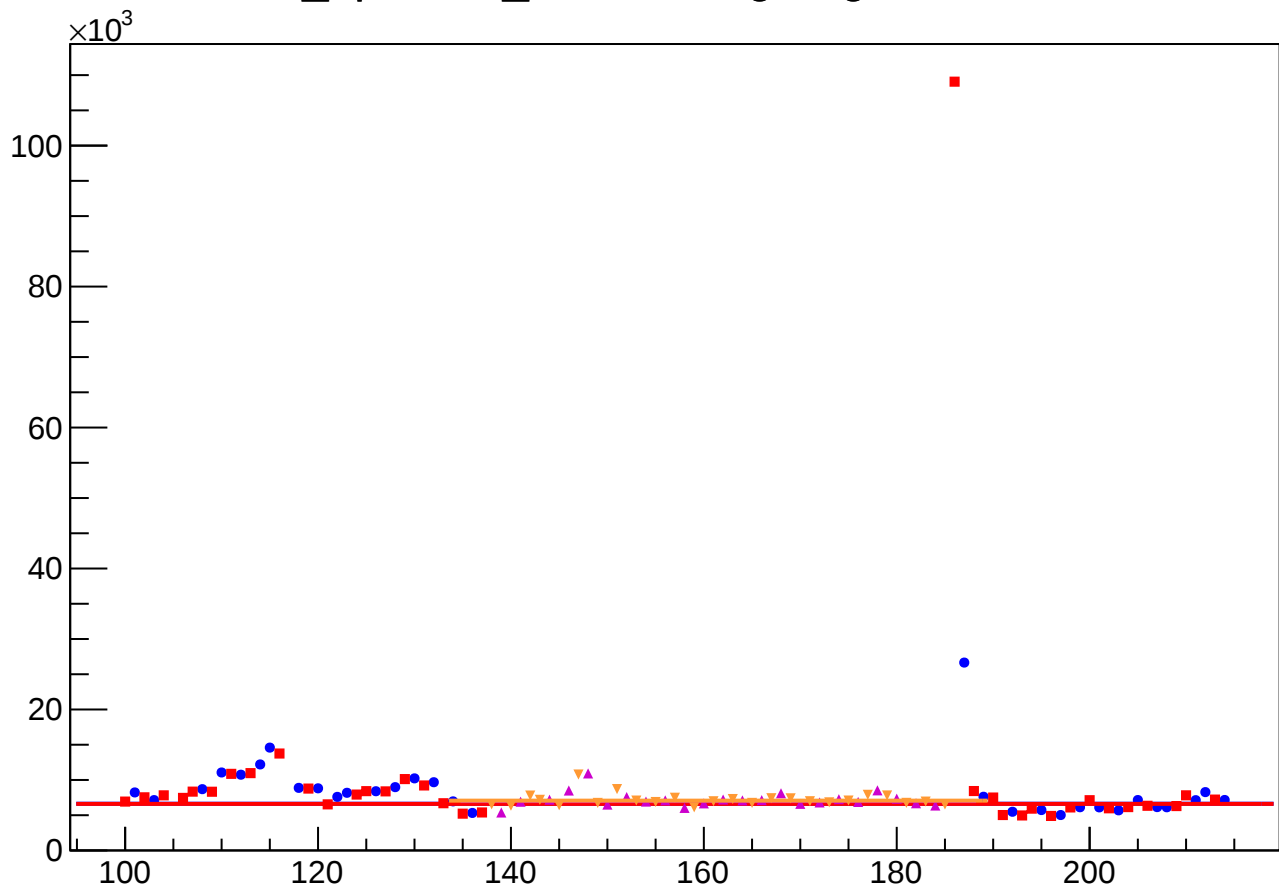
Right: -1.579 ± 1.179 χ^2/NDF : 64.3/64

In: -0.198 ± 1.191 χ^2/NDF : 64.9/53

Out: -0.510 ± 1.173 χ^2/NDF : 58.7/58

All: -0.356 ± 0.836 χ^2/NDF : 123.6/112

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6630.036 $\pm$ 1.186 χ^2/NDF : 1606383.3/30

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

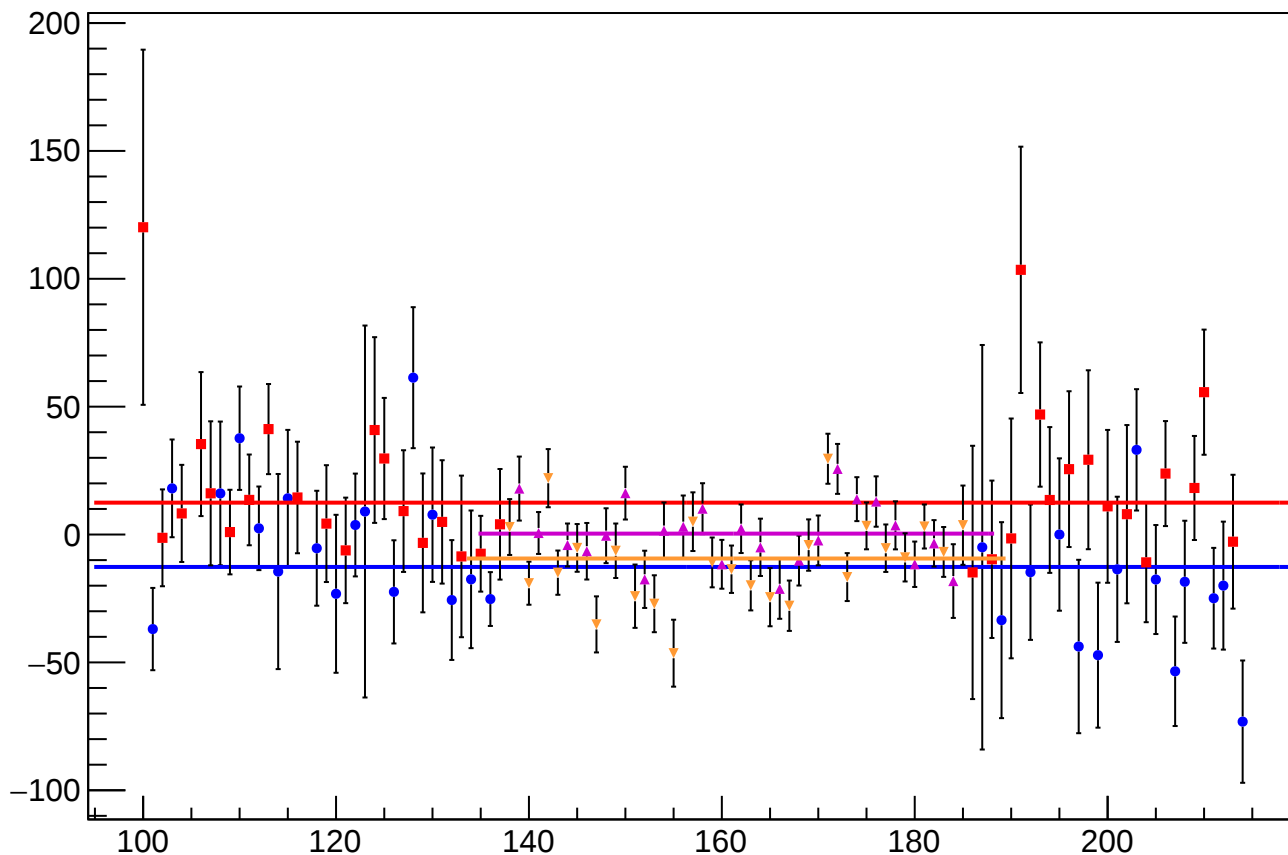
Right: 6618.146 $\pm$ 0.834 χ^2/NDF : 3757249.5/64

In: 6813.468 $\pm$ 0.842 χ^2/NDF : 2204762.3/53

Out: 6836.509 $\pm$ 0.829 χ^2/NDF : 2615170.4/58

All: 6825.172 $\pm$ 0.591 χ^2/NDF : 4820312.6/111

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -12.676 ± 4.087 $\chi^2/\text{NDF}: 41.9/30$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 12.467 ± 4.145 $\chi^2/\text{NDF}: 23.0/33$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

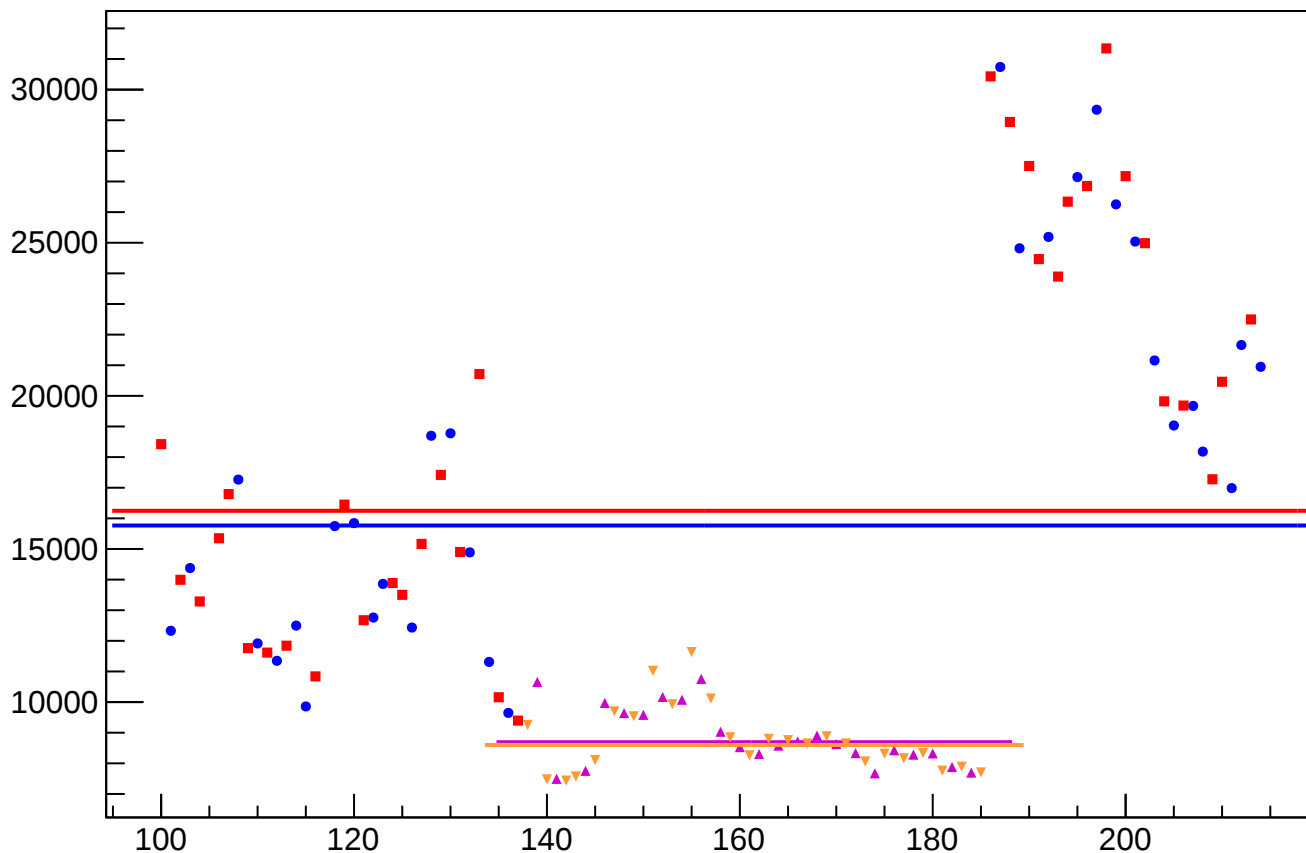
Right: -0.282 ± 2.910 $\chi^2/\text{NDF}: 83.6/64$

In: -2.353 ± 1.862 $\chi^2/\text{NDF}: 79.6/53$

Out: -5.191 ± 1.814 $\chi^2/\text{NDF}: 103.9/58$

All: -3.809 ± 1.300 $\chi^2/\text{NDF}: 184.7/112$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15766.456 $\pm$ 2.890 χ^2/NDF : 3307658.0/30

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

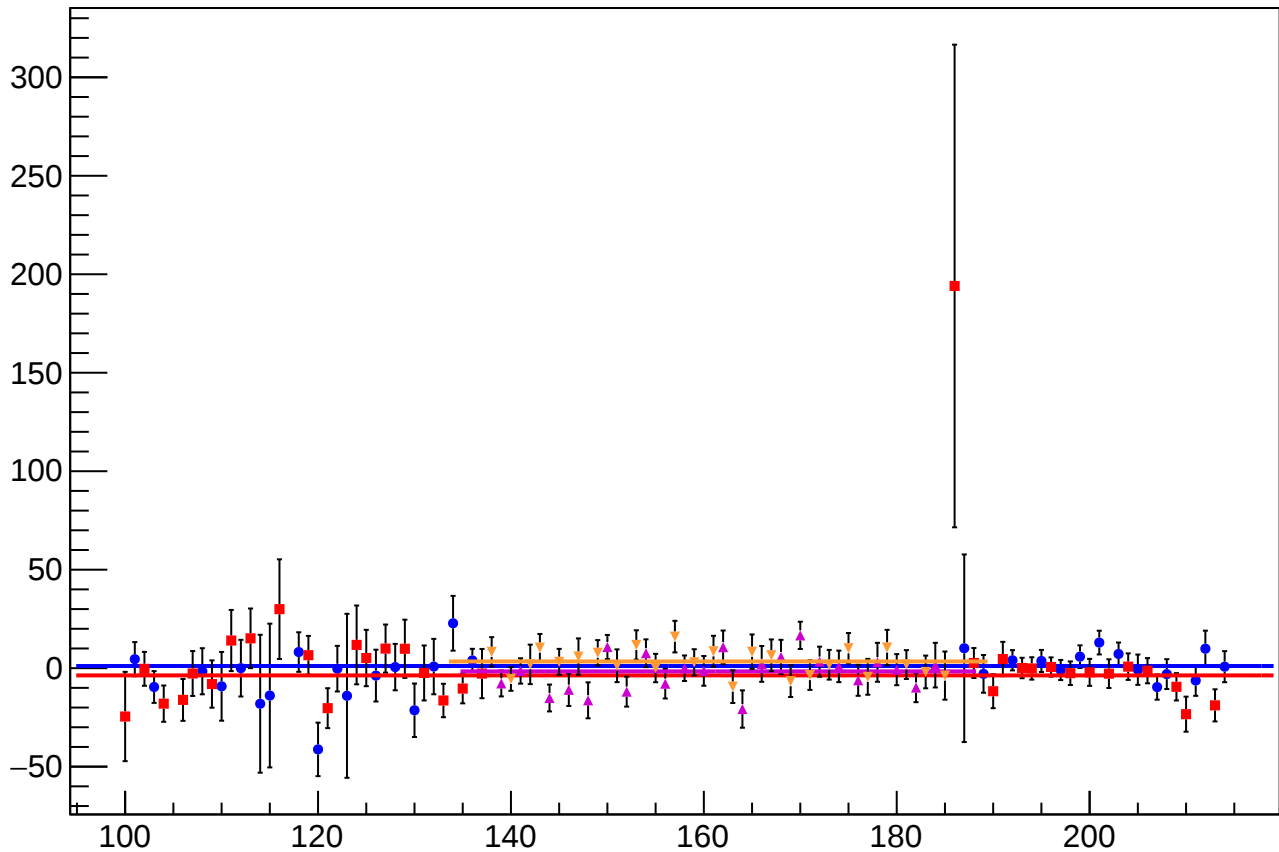
Right: 16003.527 $\pm$ 2.058 χ^2/NDF : 6987521.9/64

In: 10159.808 $\pm$ 1.317 χ^2/NDF : 8429847.1/53

Out: 10065.554 $\pm$ 1.283 χ^2/NDF : 9608054.0/58

All: 10111.447 $\pm$ 0.919 χ^2/NDF : 18040529.7

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.091 ± 1.514 χ^2/NDF : 30.2/30

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

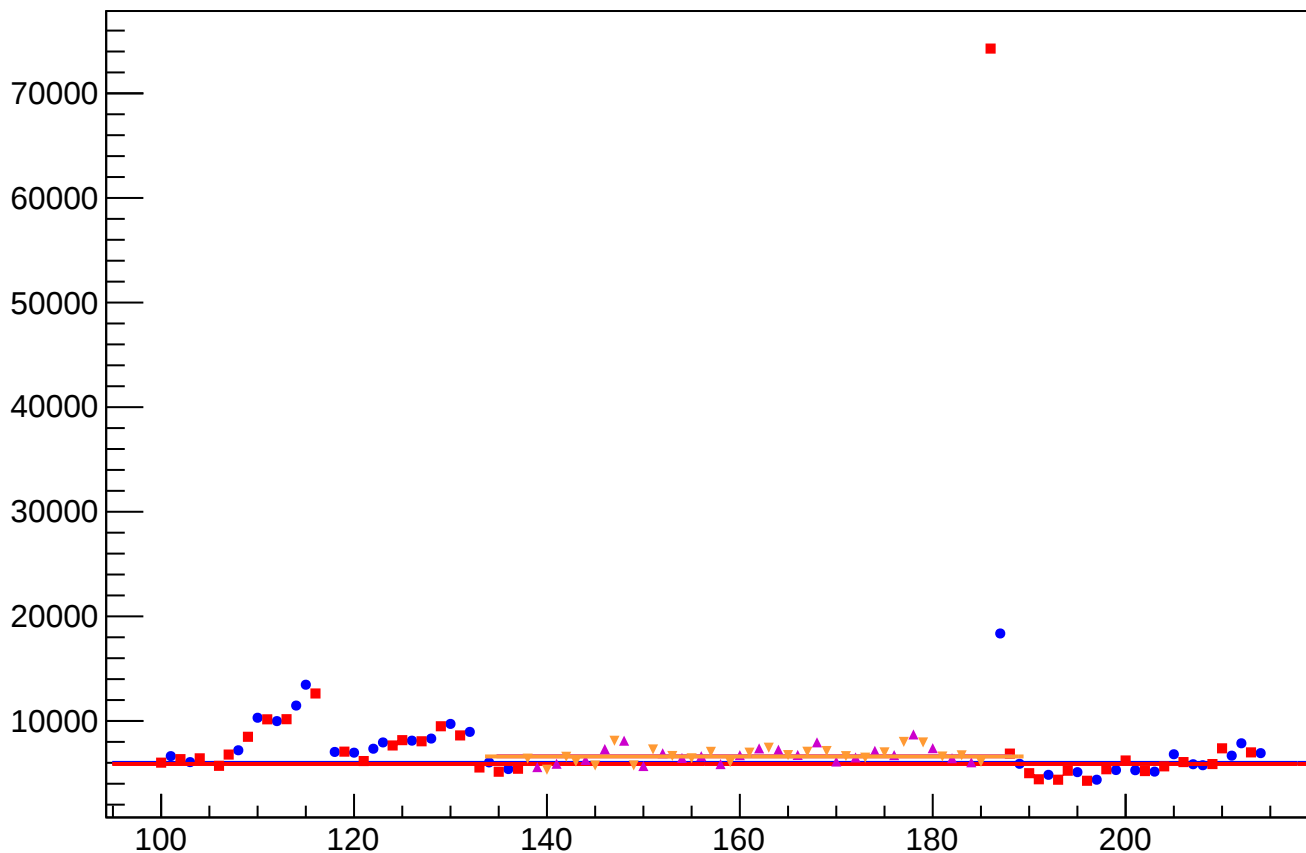
Right: -1.355 ± 1.056 χ^2/NDF : 71.3/64

In: -0.193 ± 1.099 χ^2/NDF : 65.2/53

Out: -0.312 ± 1.068 χ^2/NDF : 63.7/58

All: -0.255 ± 0.766 χ^2/NDF : 129.0/112

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5990.261+/-1.070 χ^2/NDF : 1626631.9/30

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

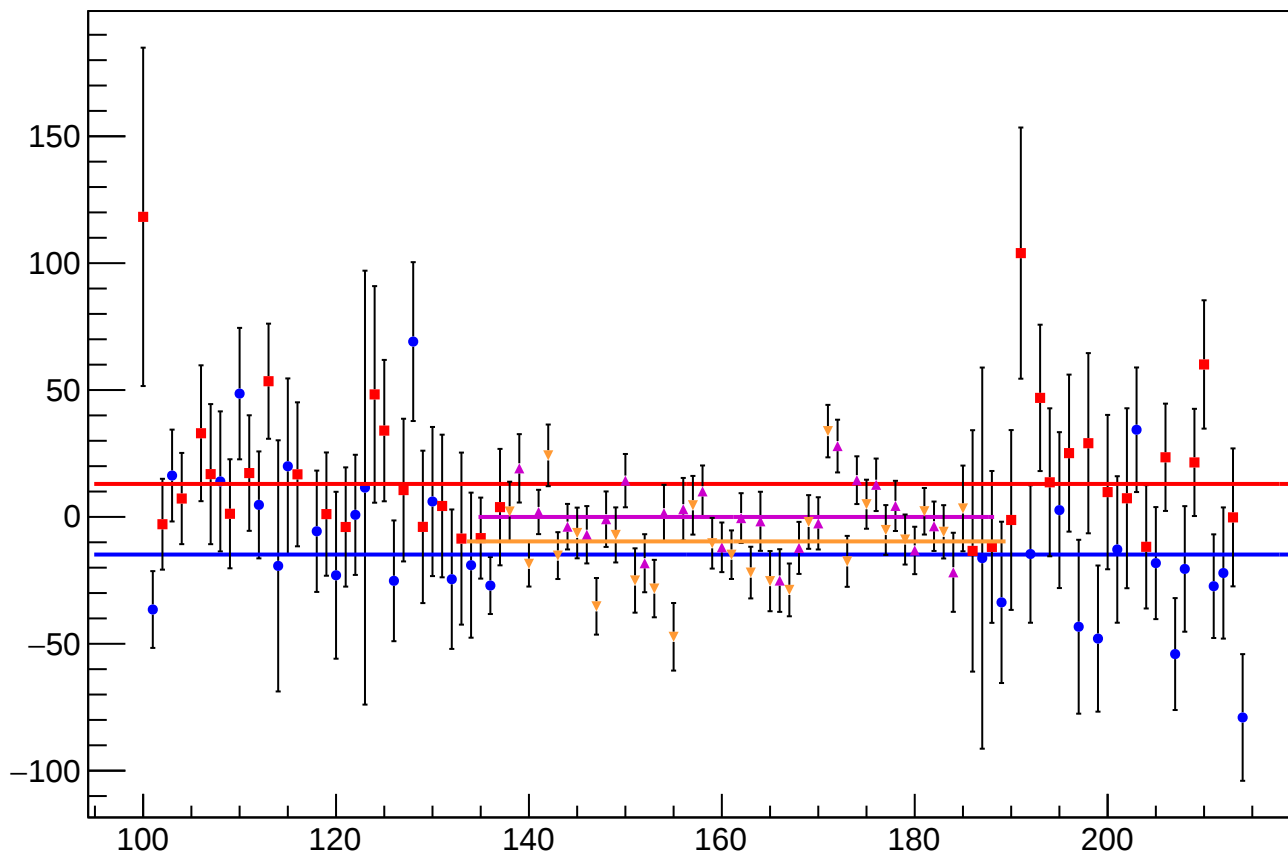
Right: 5938.579+/-0.747 χ^2/NDF : 3863500.8/64

In: 6291.971+/-0.777 χ^2/NDF : 2225020.3/53

Out: 6230.306+/-0.756 χ^2/NDF : 2855686.8/58

All: 6260.260+/-0.542 χ^2/NDF : 5083943.0/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -14.830 ± 4.365 $\chi^2/\text{NDF}: 40.9/30$

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 $\chi^2/\text{NDF}: 100.4/47$

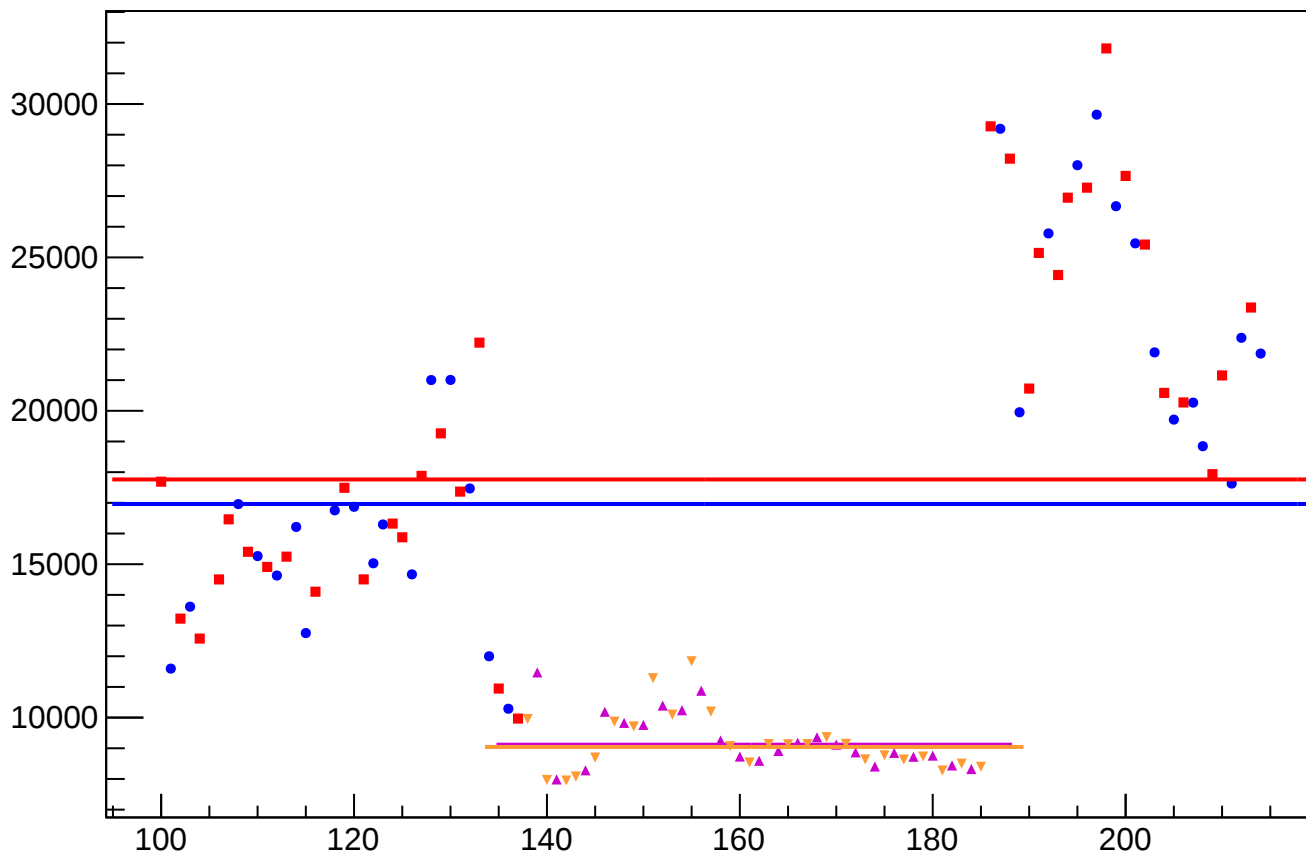
Right: -1.247 ± 3.123 $\chi^2/\text{NDF}: 84.5/64$

In: -3.002 ± 1.959 $\chi^2/\text{NDF}: 80.8/53$

Out: -5.496 ± 1.914 $\chi^2/\text{NDF}: 104.5/58$

All: -4.278 ± 1.369 $\chi^2/\text{NDF}: 186.1/112$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16962.865 $\pm$ 3.086 χ^2 /NDF: 2805554.6/30

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF:328192.2/24

Right Out: 17762.773 $\pm$ 3.161 χ^2 /NDF: 2836169.7/33

Left In: 9116.921 $\pm$ 1.550 χ^2 /NDF:277594.8/22

Left: 9078.947 $\pm$ 1.077 χ^2 /NDF: 606947.8/47

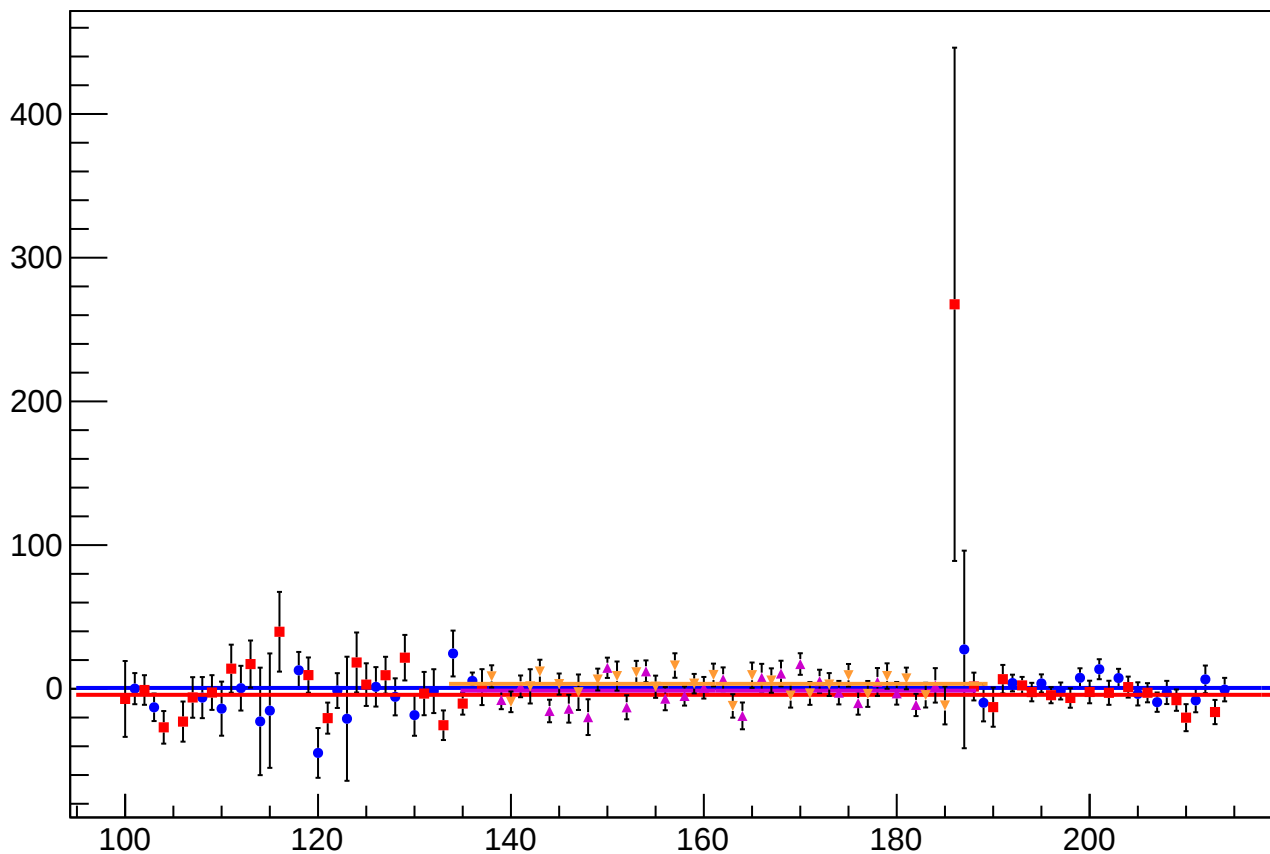
Right: 17353.322 $\pm$ 2.208 χ^2 /NDF: 5674511.1/64

In: 10697.106 $\pm$ 1.385 χ^2 /NDF:8243796.0/53

Out: 10642.547 $\pm$ 1.354 χ^2 /NDF:9379207.7/58

All: 10669.197 $\pm$ 0.968 χ^2 /NDF: 17623797.3

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.601 $\pm$ 1.682 χ^2/NDF : 27.7/30

Left Out: 3.439 $\pm$ 1.666 χ^2/NDF : 18.9/24

Right Out: -4.188 $\pm$ 1.664 χ^2/NDF : 36.5/33

Left In: -1.291 $\pm$ 1.701 χ^2/NDF : 36.5/22

Left: 1.123 $\pm$ 1.190 χ^2/NDF : 59.4/47

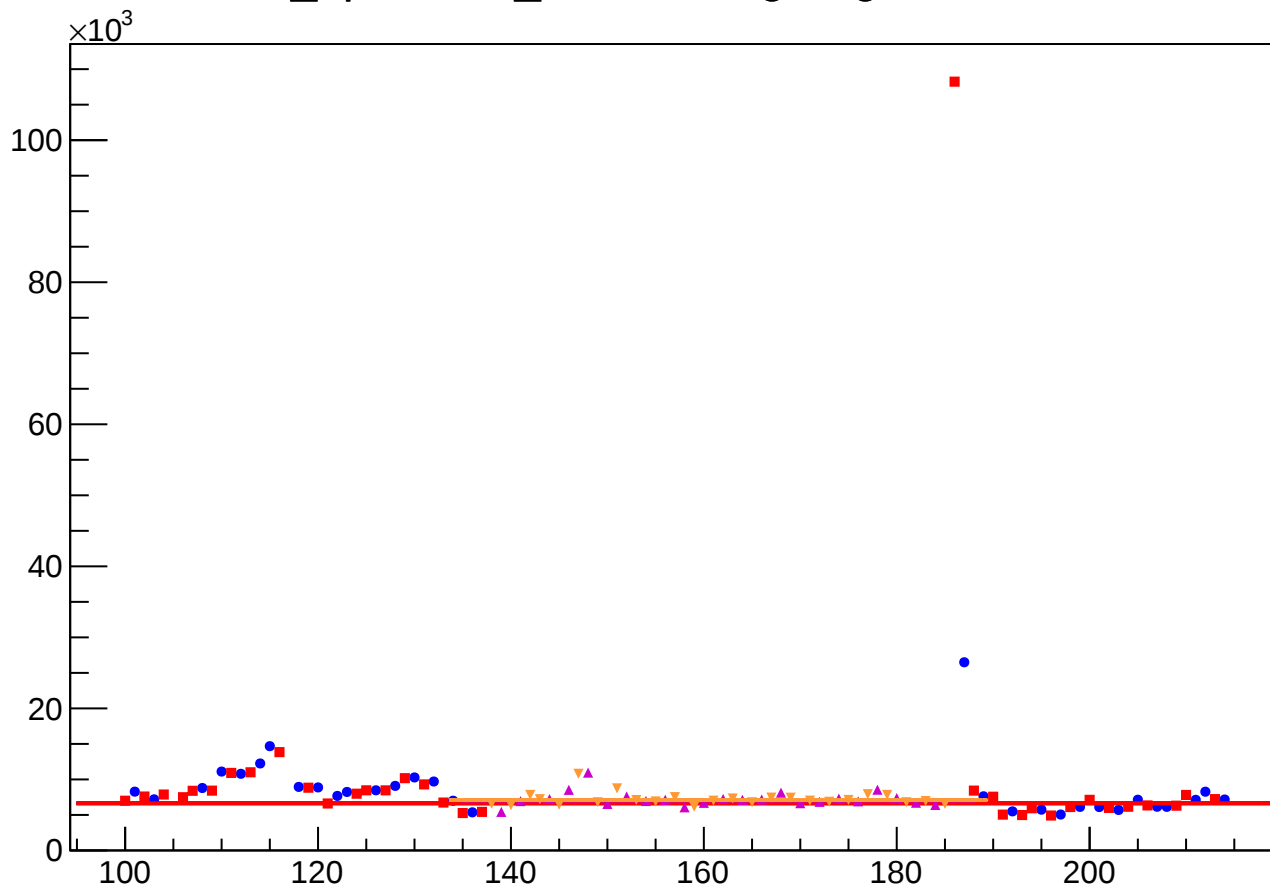
Right: -1.819 $\pm$ 1.183 χ^2/NDF : 68.3/64

In: -0.334 $\pm$ 1.196 χ^2/NDF : 64.8/53

Out: -0.380 $\pm$ 1.177 χ^2/NDF : 65.9/58

All: -0.357 $\pm$ 0.839 χ^2/NDF : 130.8/112

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6650.393 $\pm$ 1.189 χ^2/NDF : 1612713.0/30

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

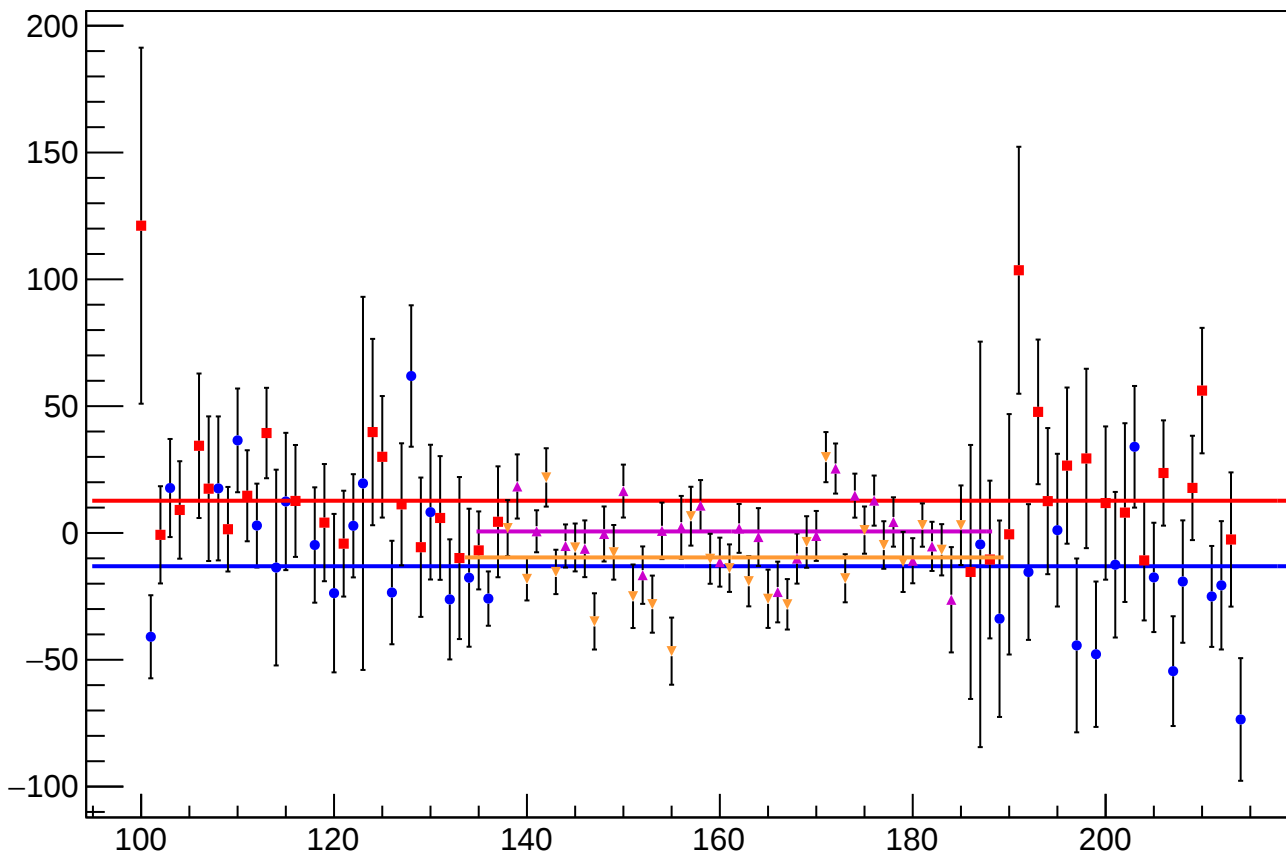
Right: 6640.651 $\pm$ 0.836 χ^2/NDF : 3767063.7/64

In: 6839.878 $\pm$ 0.846 χ^2/NDF : 2205109.9/53

Out: 6864.567 $\pm$ 0.832 χ^2/NDF : 2615659.3/58

All: 6852.417 $\pm$ 0.593 χ^2/NDF : 4821202.2/11

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -13.117 $\pm$ 4.138 χ^2/NDF : 42.4/30

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 12.708 $\pm$ 4.199 χ^2/NDF : 22.0/33

Left In: 0.599 $\pm$ 2.135 χ^2/NDF : 29.7/22

Left: -4.710 $\pm$ 1.481 χ^2/NDF : 99.2/47

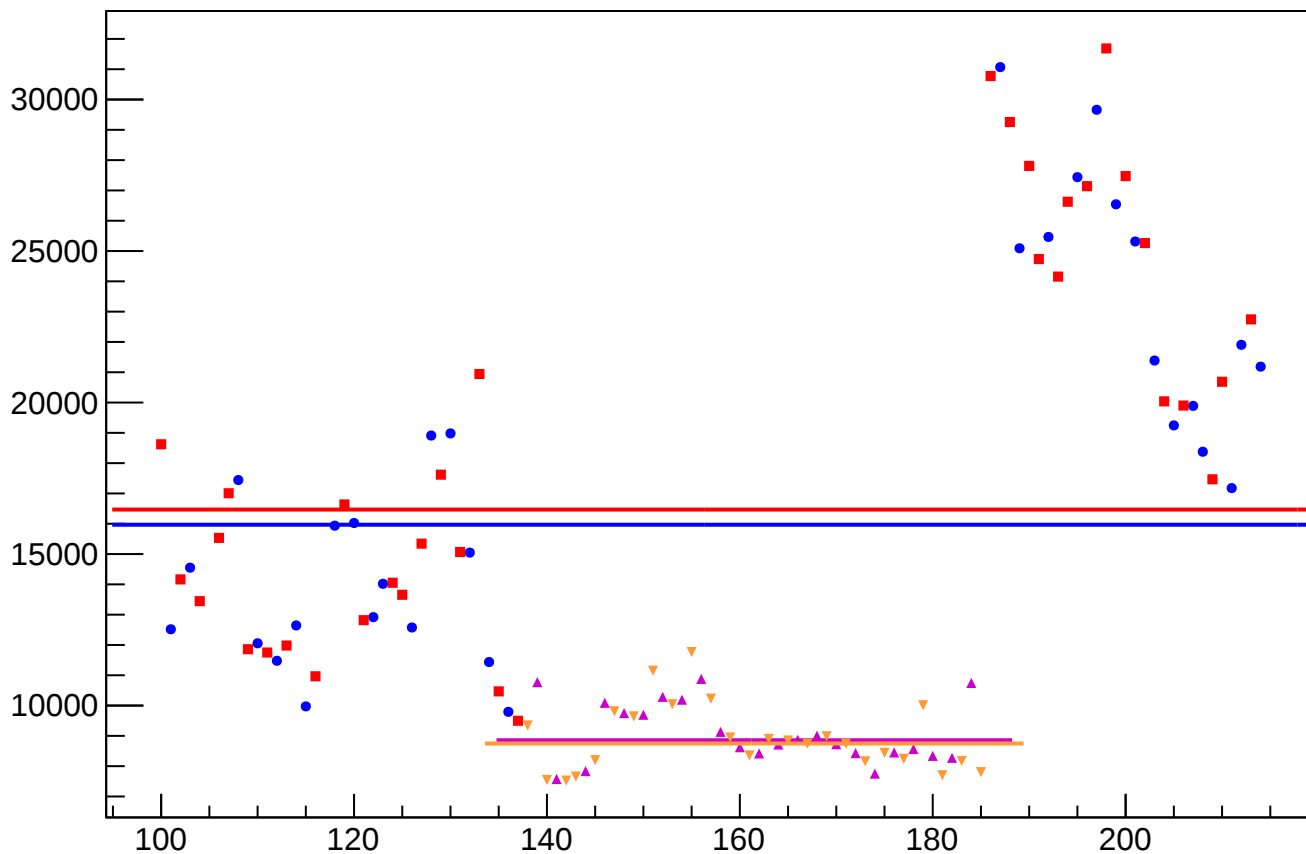
Right: -0.394 $\pm$ 2.948 χ^2/NDF : 83.6/64

In: -2.284 $\pm$ 1.897 χ^2/NDF : 80.7/53

Out: -5.315 $\pm$ 1.847 χ^2/NDF : 102.5/58

All: -3.840 $\pm$ 1.324 χ^2/NDF : 184.5/112

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15967.969 $\pm$ 2.926 χ^2 /NDF: 3284548.2/30

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

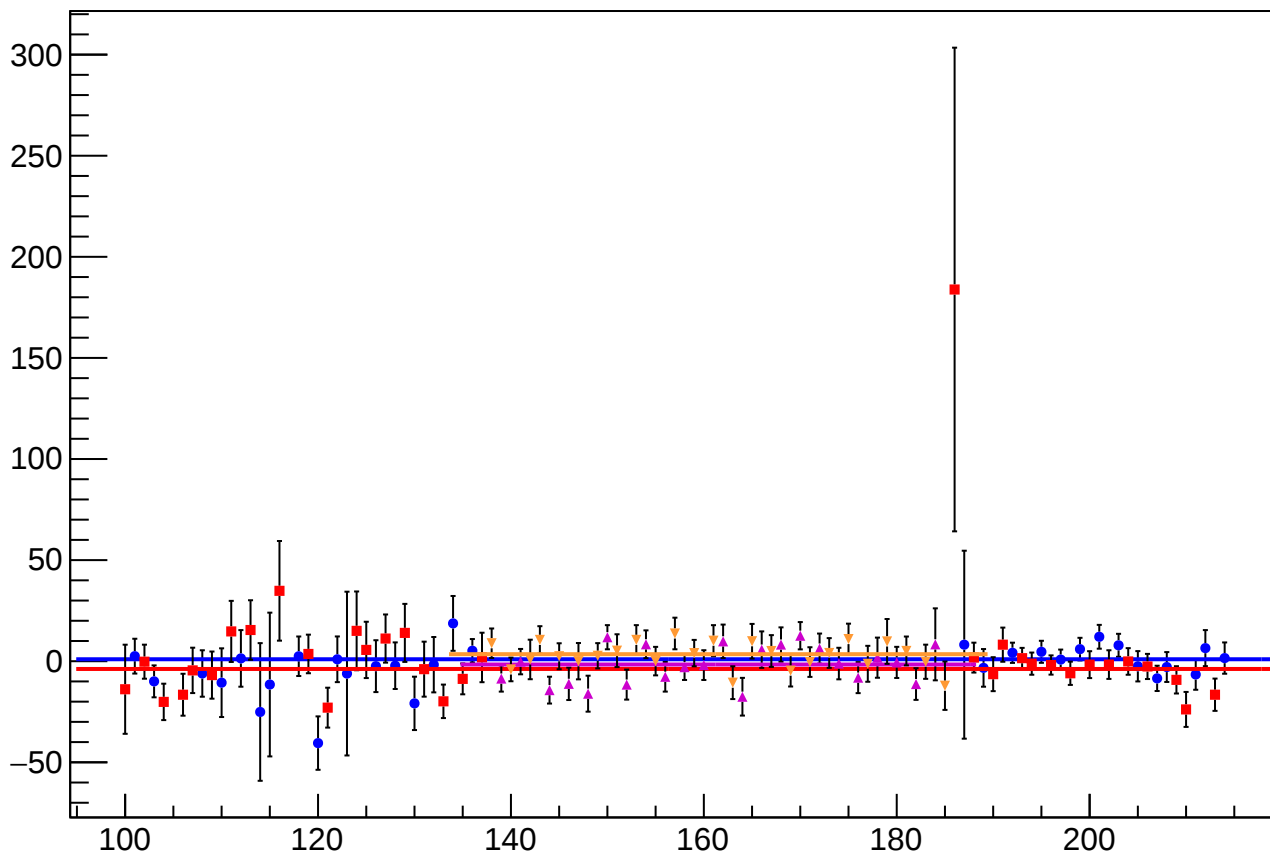
Right: 16214.680 $\pm$ 2.084 χ^2 /NDF: 6926788.1/64

In: 10350.861 $\pm$ 1.342 χ^2 /NDF: 8318208.6/53

Out: 10242.629 $\pm$ 1.306 χ^2 /NDF: 9542539.1/58

All: 10295.303 $\pm$ 0.936 χ^2 /NDF: 17864088.2

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.968 ± 1.477 $\chi^2/\text{NDF}: 29.7/30$

Left Out: 3.473 ± 1.524 $\chi^2/\text{NDF}: 15.8/24$

Right Out: -3.835 ± 1.437 $\chi^2/\text{NDF}: 40.1/33$

Left In: -1.638 ± 1.578 $\chi^2/\text{NDF}: 33.7/22$

Left: 1.006 ± 1.096 $\chi^2/\text{NDF}: 54.9/47$

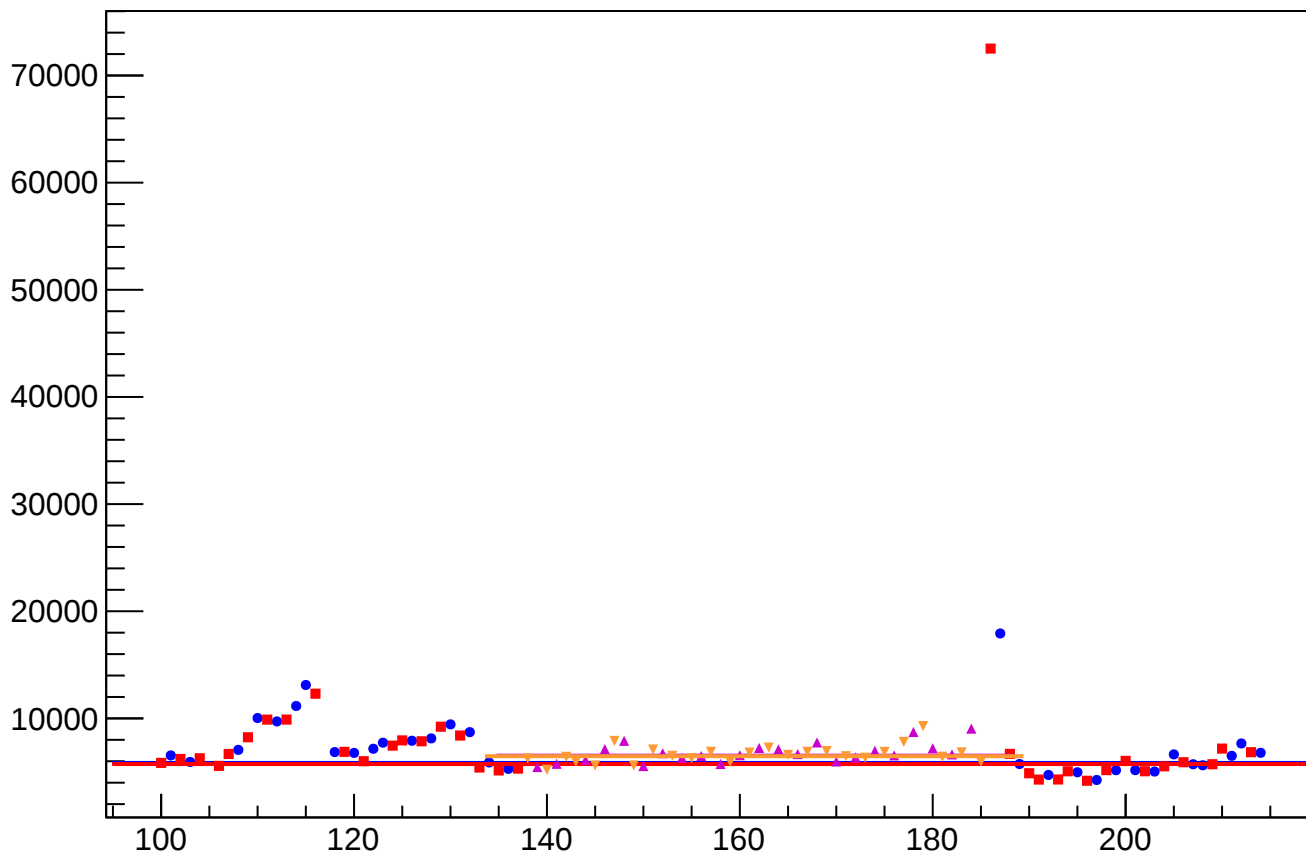
Right: -1.498 ± 1.030 $\chi^2/\text{NDF}: 75.2/64$

In: -0.249 ± 1.078 $\chi^2/\text{NDF}: 64.9/53$

Out: -0.395 ± 1.046 $\chi^2/\text{NDF}: 68.0/58$

All: -0.324 ± 0.751 $\chi^2/\text{NDF}: 132.9/112$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5840.896 $\pm$ 1.044 χ^2 /NDF: 1634446.4/30

Left Out: 6471.976 $\pm$ 1.078 χ^2 /NDF: 490282.9/24

Right Out: 5739.764 $\pm$ 1.016 χ^2 /NDF: 2223735.9/33

Left In: 6521.975 $\pm$ 1.116 χ^2 /NDF: 480034.7/22

Left: 6496.112 $\pm$ 0.775 χ^2 /NDF: 971356.4/47

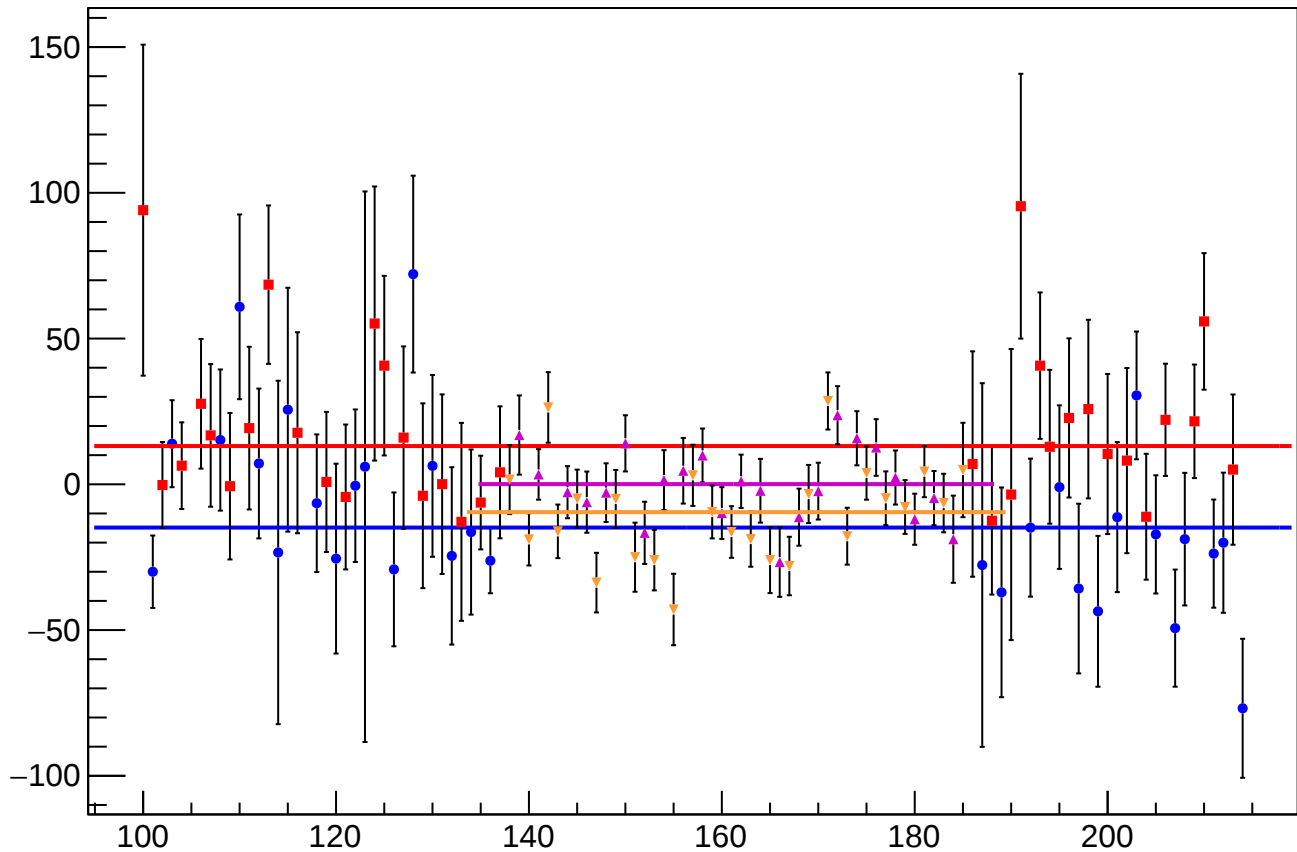
Right: 5788.969 $\pm$ 0.728 χ^2 /NDF: 3862999.2/64

In: 6158.887 $\pm$ 0.762 χ^2 /NDF: 2313132.7/53

Out: 6084.408 $\pm$ 0.739 χ^2 /NDF: 2958291.5/58

All: 6120.512 $\pm$ 0.531 χ^2 /NDF: 5276341.8/111

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -14.839 ± 4.165 $\chi^2/\text{NDF}: 40.0/30$

Left Out: -9.554 ± 2.012 $\chi^2/\text{NDF}: 59.5/24$

Right Out: 13.122 ± 4.285 $\chi^2/\text{NDF}: 24.1/33$

Left In: 0.072 ± 2.073 $\chi^2/\text{NDF}: 29.8/22$

Left: -4.885 ± 1.444 $\chi^2/\text{NDF}: 100.5/47$

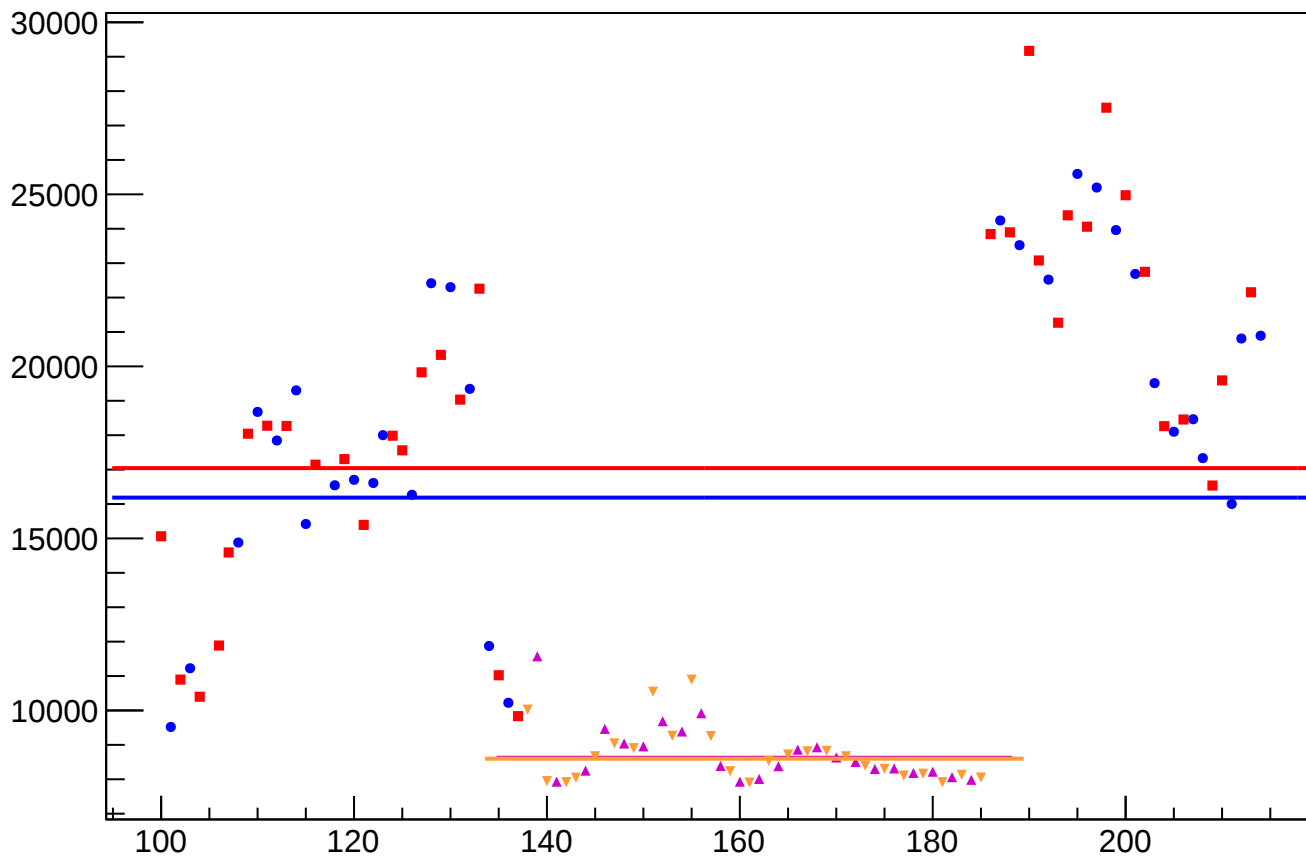
Right: -1.255 ± 2.986 $\chi^2/\text{NDF}: 86.0/64$

In: -2.888 ± 1.856 $\chi^2/\text{NDF}: 80.1/53$

Out: -5.458 ± 1.821 $\chi^2/\text{NDF}: 106.6/58$

All: -4.197 ± 1.300 $\chi^2/\text{NDF}: 187.7/112$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16185.671 $\pm$ 2.945 χ^2 /NDF: 2847518.0/30

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

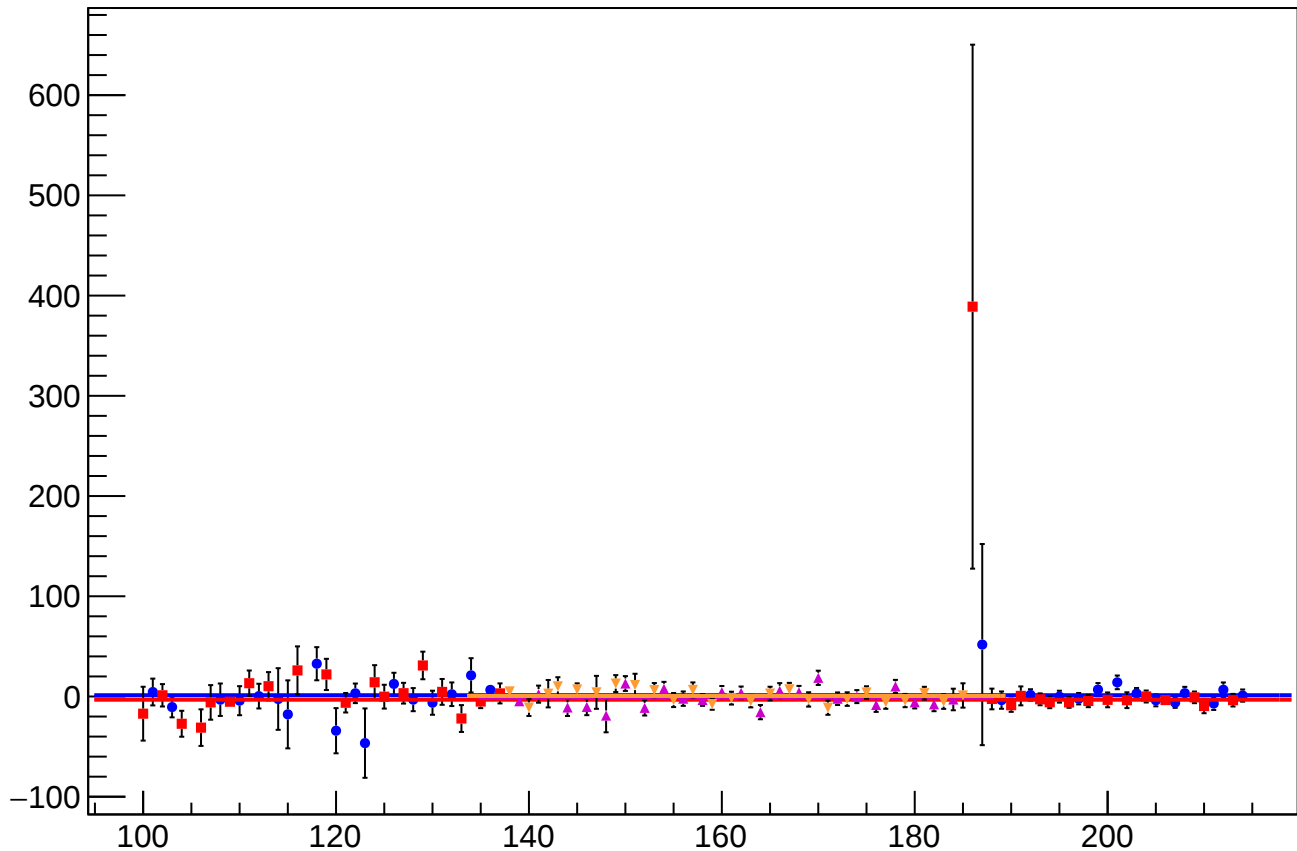
Right: 16602.423 $\pm$ 2.112 χ^2 /NDF: 5654903.4/64

In: 10126.035 $\pm$ 1.312 χ^2 /NDF:8367019.9/53

Out: 10124.376 $\pm$ 1.288 χ^2 /NDF:9380739.6/58

All: 10125.190 $\pm$ 0.919 χ^2 /NDF: 17747760.3

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.261 ± 1.456 $\chi^2/\text{NDF}: 24.7/30$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -3.210 ± 1.407 $\chi^2/\text{NDF}: 28.5/33$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

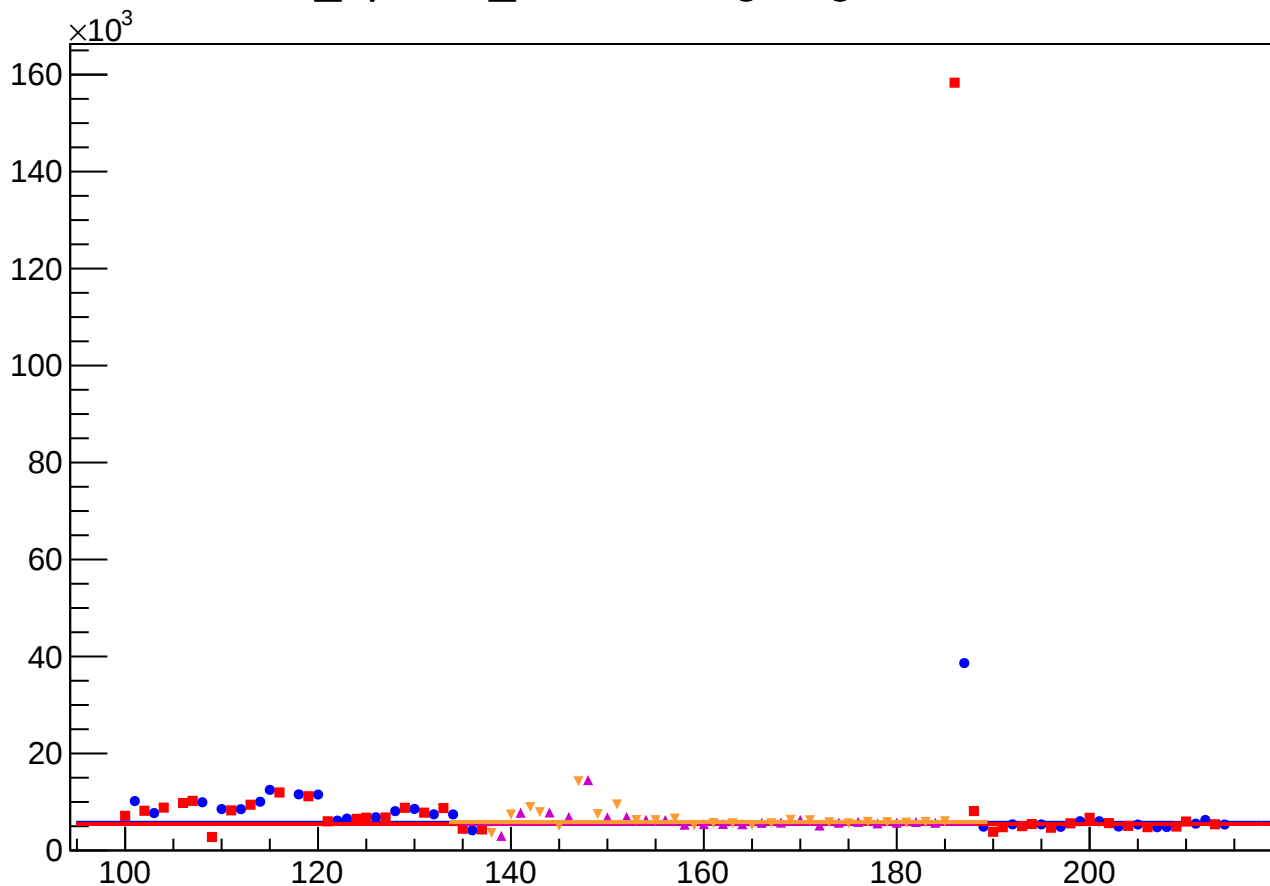
Right: -1.050 ± 1.012 $\chi^2/\text{NDF}: 58.1/64$

In: 0.057 ± 1.007 $\chi^2/\text{NDF}: 58.5/53$

Out: -1.355 ± 0.999 $\chi^2/\text{NDF}: 51.5/58$

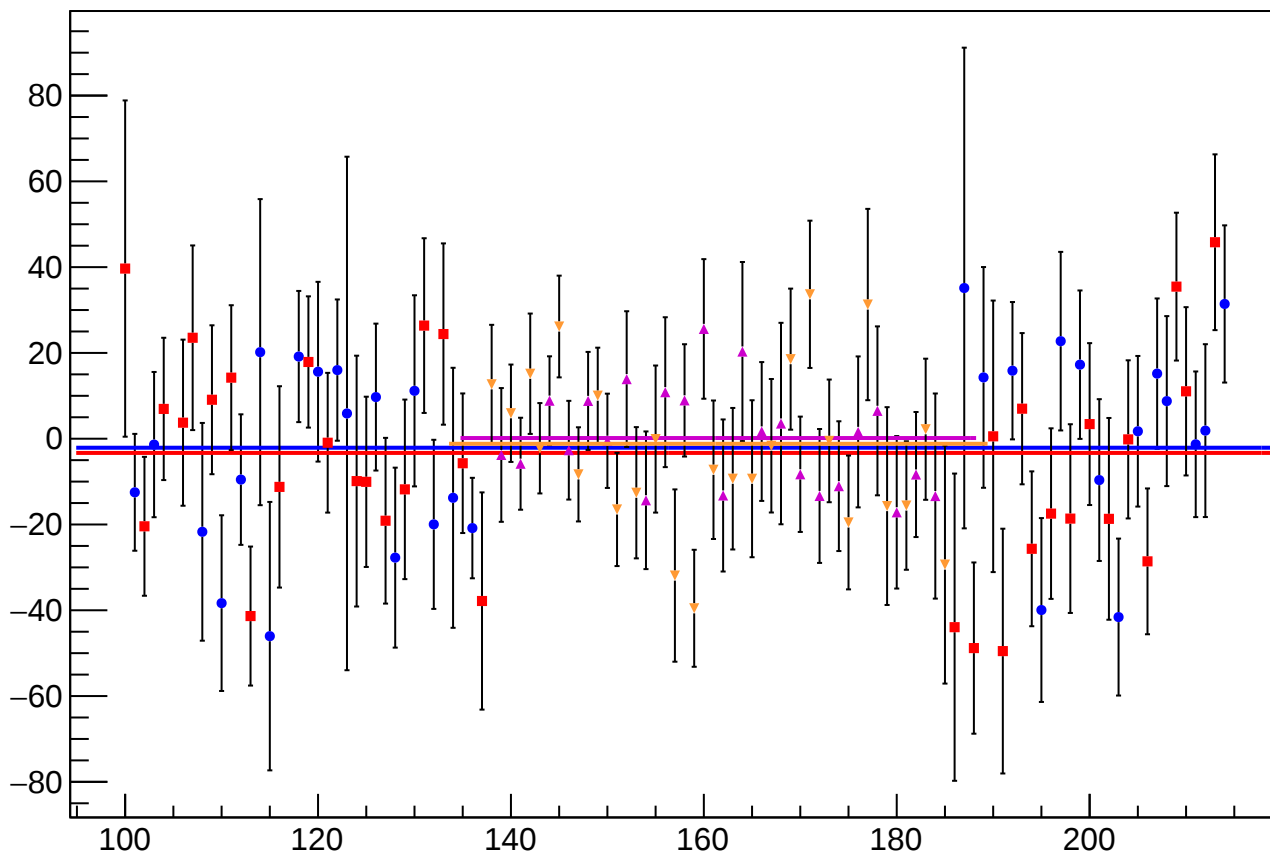
All: -0.655 ± 0.709 $\chi^2/\text{NDF}: 111.0/112$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5701.317 $\pm$ 1.029	χ^2/NDF : 2117142.4/30	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: 5568.835 $\pm$ 0.715	χ^2/NDF : 5611247.2/64
Right Out: 5445.005 $\pm$ 0.995	χ^2/NDF : 3462052.7/33	In: 5633.585 $\pm$ 0.712	χ^2/NDF : 4288241.2/53
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: 5642.512 $\pm$ 0.502	χ^2/NDF : 9527230.0/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -2.102 ± 3.422 χ^2/NDF : 34.1/30

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -3.314 ± 3.374 χ^2/NDF : 46.4/33

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

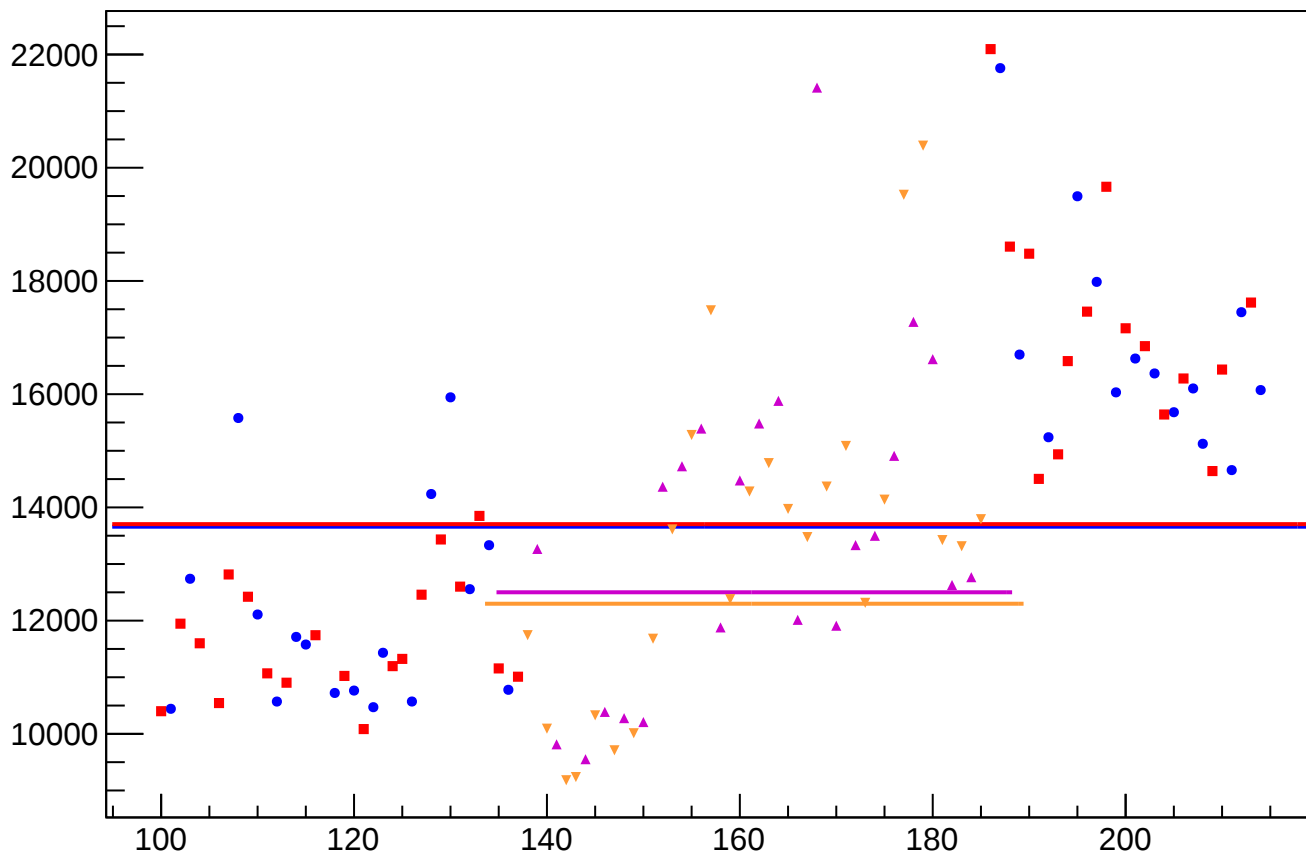
Right: -2.717 ± 2.403 χ^2/NDF : 80.5/64

In: -0.846 ± 2.280 χ^2/NDF : 45.8/53

Out: -2.102 ± 2.216 χ^2/NDF : 80.3/58

All: -1.492 ± 1.589 χ^2/NDF : 126.3/112

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13659.526 $\pm$ 2.419

χ^2/NDF : 1285691.7/30

Left: 12395.720 $\pm$ 1.498 χ^2/NDF : 2868458.0/47

Right: 13682.340 $\pm$ 1.699 χ^2/NDF : 2680511.4/64

Left Out: 12298.676 $\pm$ 2.078

χ^2/NDF : 1506026.8/24

In: 13015.345 $\pm$ 1.612 χ^2/NDF : 2771094.3/53

Right Out: 13704.527 $\pm$ 2.386

χ^2/NDF : 1394644.3/33

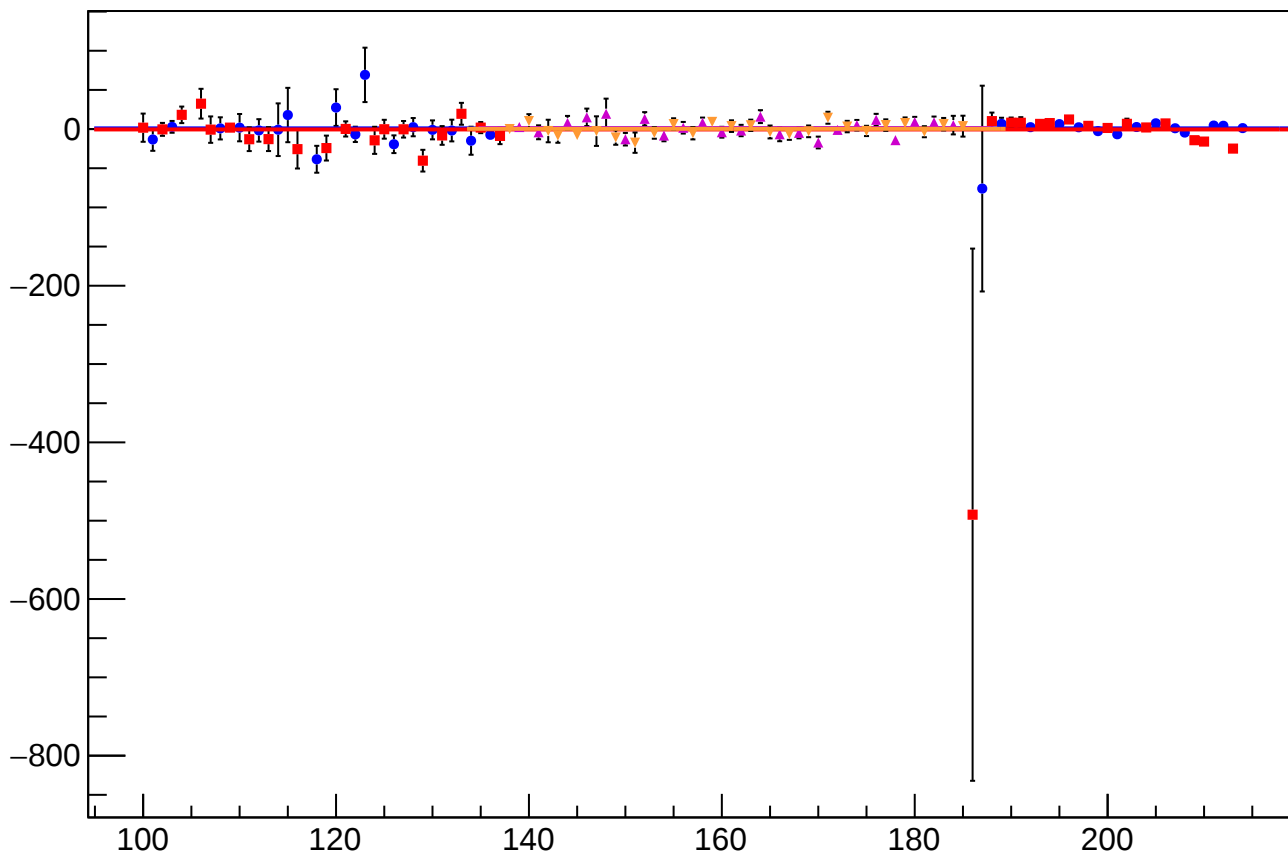
Out: 12905.095 $\pm$ 1.567 χ^2/NDF : 3098089.7/58

Left In: 12500.795 $\pm$ 2.162

χ^2/NDF : 1357889.1/22

All: 12958.652 $\pm$ 1.124 χ^2/NDF : 5871588.5/115

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.886 ± 1.189 χ^2/NDF : 29.5/30

Left Out: 0.353 ± 1.433 χ^2/NDF : 19.1/24

Right Out: -0.468 ± 1.199 χ^2/NDF : 90.8/33

Left In: 1.165 ± 1.371 χ^2/NDF : 33.6/22

Left: 0.777 ± 0.991 χ^2/NDF : 52.9/47

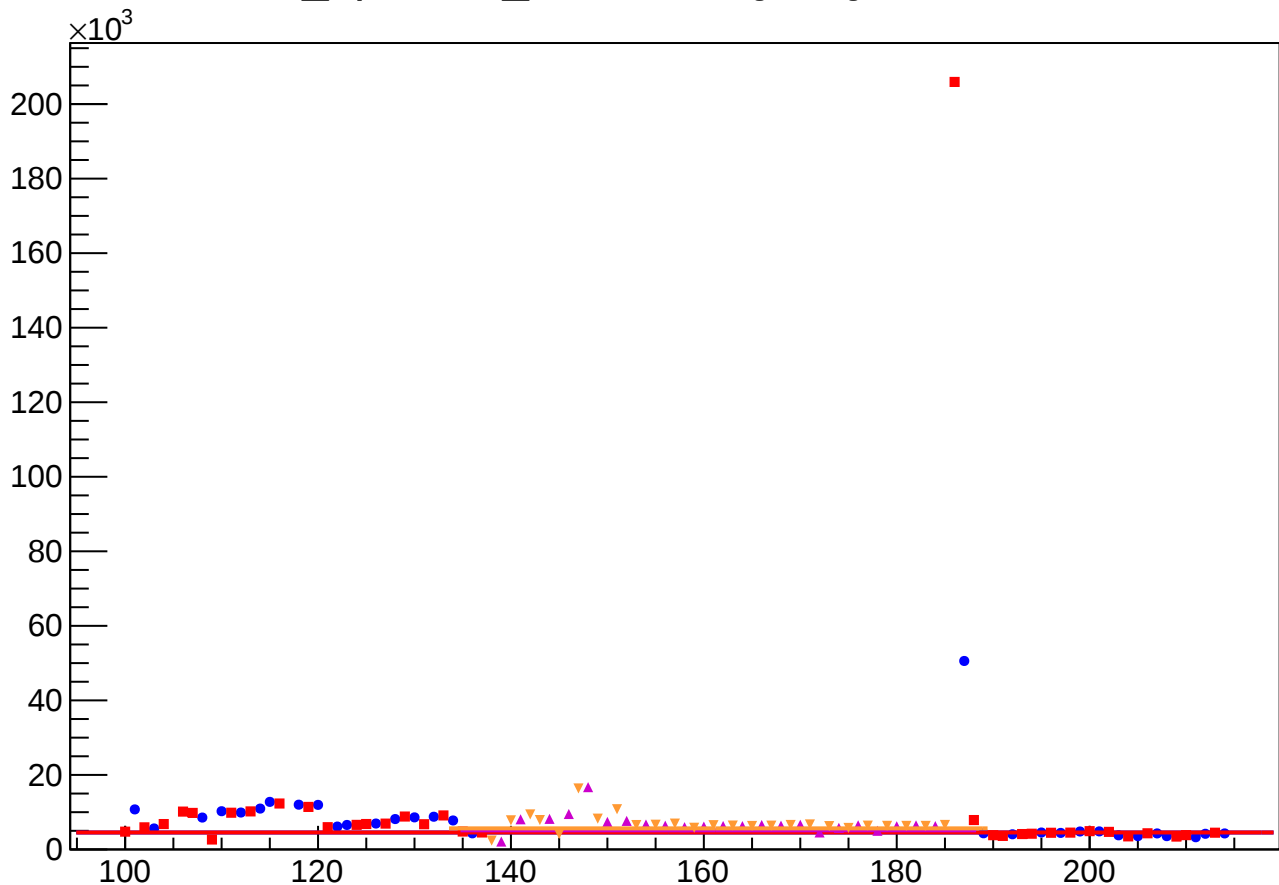
Right: 0.214 ± 0.844 χ^2/NDF : 120.9/64

In: 1.006 ± 0.899 χ^2/NDF : 63.1/53

Out: -0.130 ± 0.919 χ^2/NDF : 110.1/58

All: 0.451 ± 0.643 χ^2/NDF : 174.0/112

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4546.729 ± 0.841 $\chi^2/\text{NDF}: 3441743.0/30$

Left Out: 5659.441 ± 1.014 $\chi^2/\text{NDF}: 4128583.6/24$

Right Out: 4556.997 ± 0.847 $\chi^2/\text{NDF}: 3959194.1/33$

Left In: 5137.772 ± 0.970 $\chi^2/\text{NDF}: 5495609.7/22$

Left: 5387.078 ± 0.701 $\chi^2/\text{NDF}: 9762498.7/47$

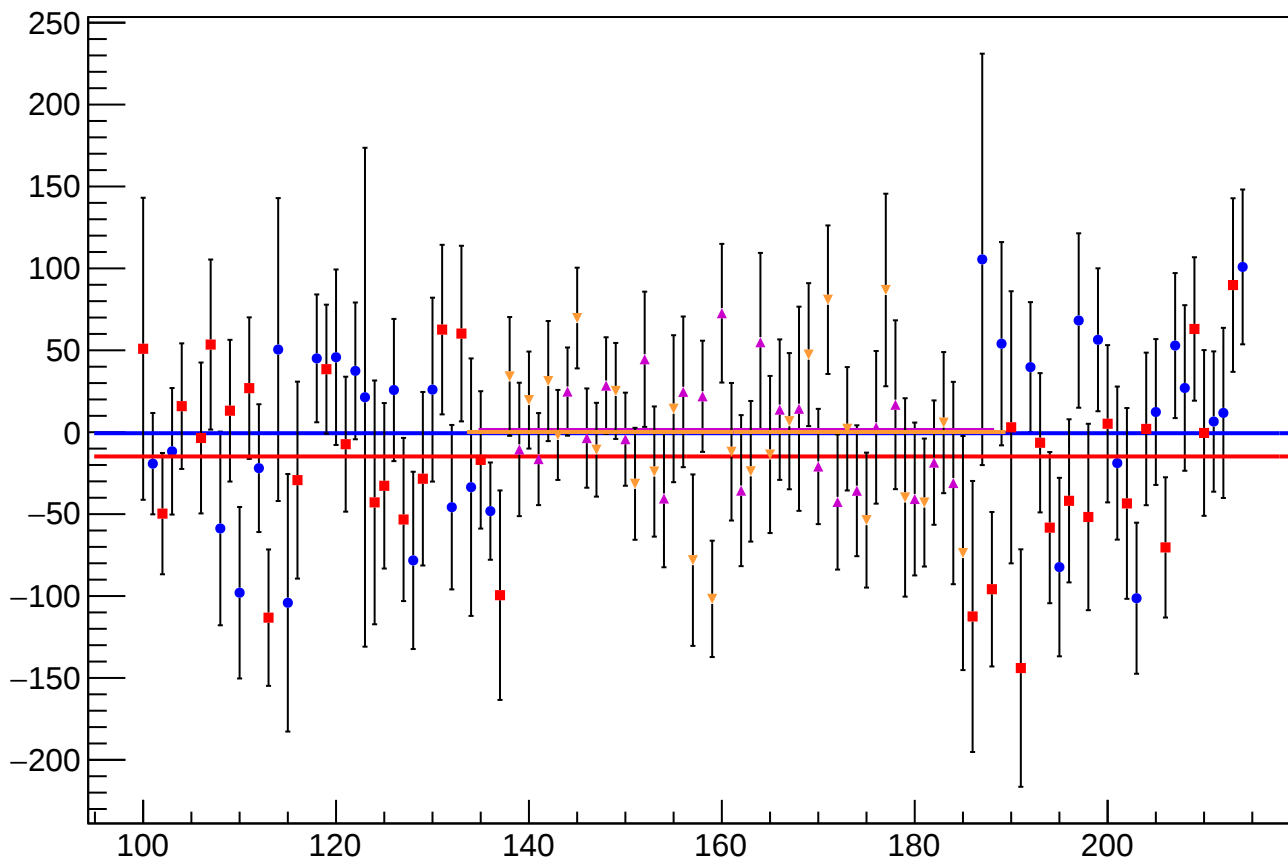
Right: 4551.824 ± 0.597 $\chi^2/\text{NDF}: 7401011.1/64$

In: 4800.470 ± 0.635 $\chi^2/\text{NDF}: 9149359.2/53$

Out: 5010.605 ± 0.650 $\chi^2/\text{NDF}: 8784062.1/58$

All: 4903.122 ± 0.454 $\chi^2/\text{NDF}: 17986854.3/112$

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.602 ± 8.550 χ^2/NDF : 36.0/30

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

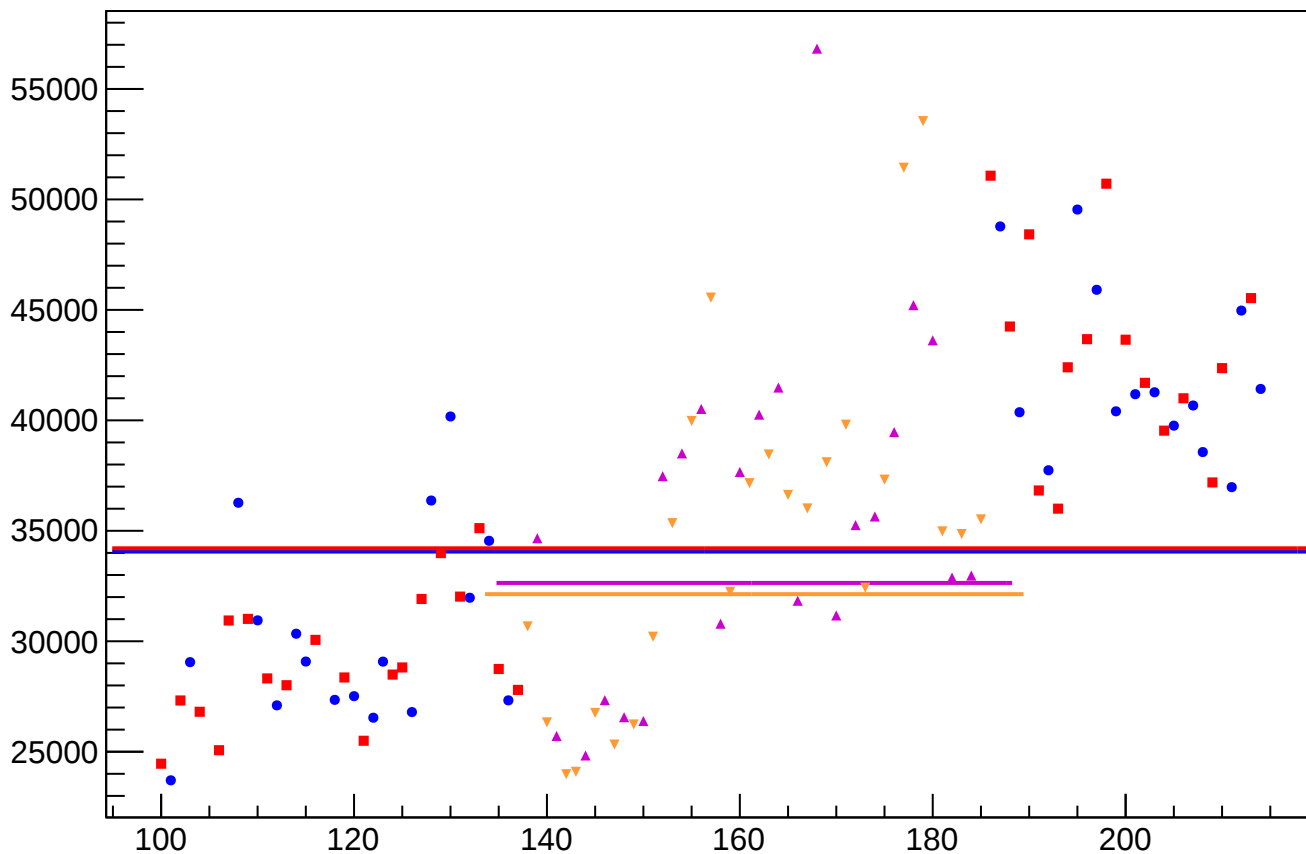
Right: -7.794 ± 6.003 χ^2/NDF : 75.6/64

In: 0.453 ± 5.838 χ^2/NDF : 49.3/53

Out: -6.631 ± 5.679 χ^2/NDF : 71.1/58

All: -3.187 ± 4.071 χ^2/NDF : 121.2/112

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34061.118+/-6.046

χ^2/NDF : 1391504.7/30

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

Right: 34135.591+/-4.245 χ^2/NDF : 2858965.1/64

Left Out: 32132.314+/-5.433

χ^2/NDF : 1540079.4/24

In: 33303.167+/-4.128 χ^2/NDF : 2823114.2/53

Right Out: 34208.018+/-5.962

χ^2/NDF : 1467161.1/33

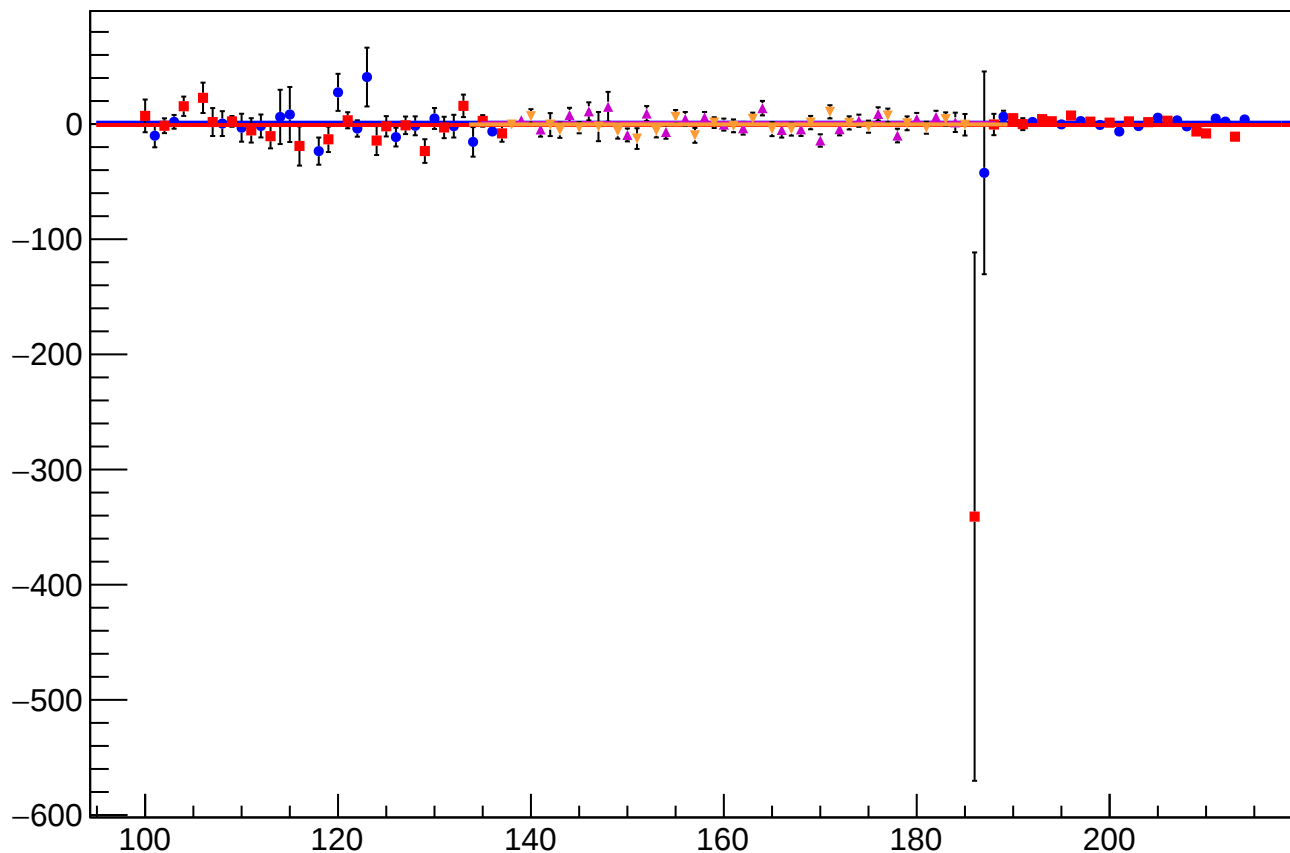
Out: 33074.001+/-4.016 χ^2/NDF : 3073463.6/58

Left In: 32641.162+/-5.650

χ^2/NDF : 1402162.4/22

All: 33185.426+/-2.878 χ^2/NDF : 5898161.4/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.194 ± 0.699 $\chi^2/\text{NDF}: 40.1/30$

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 $\chi^2/\text{NDF}: 54.4/47$

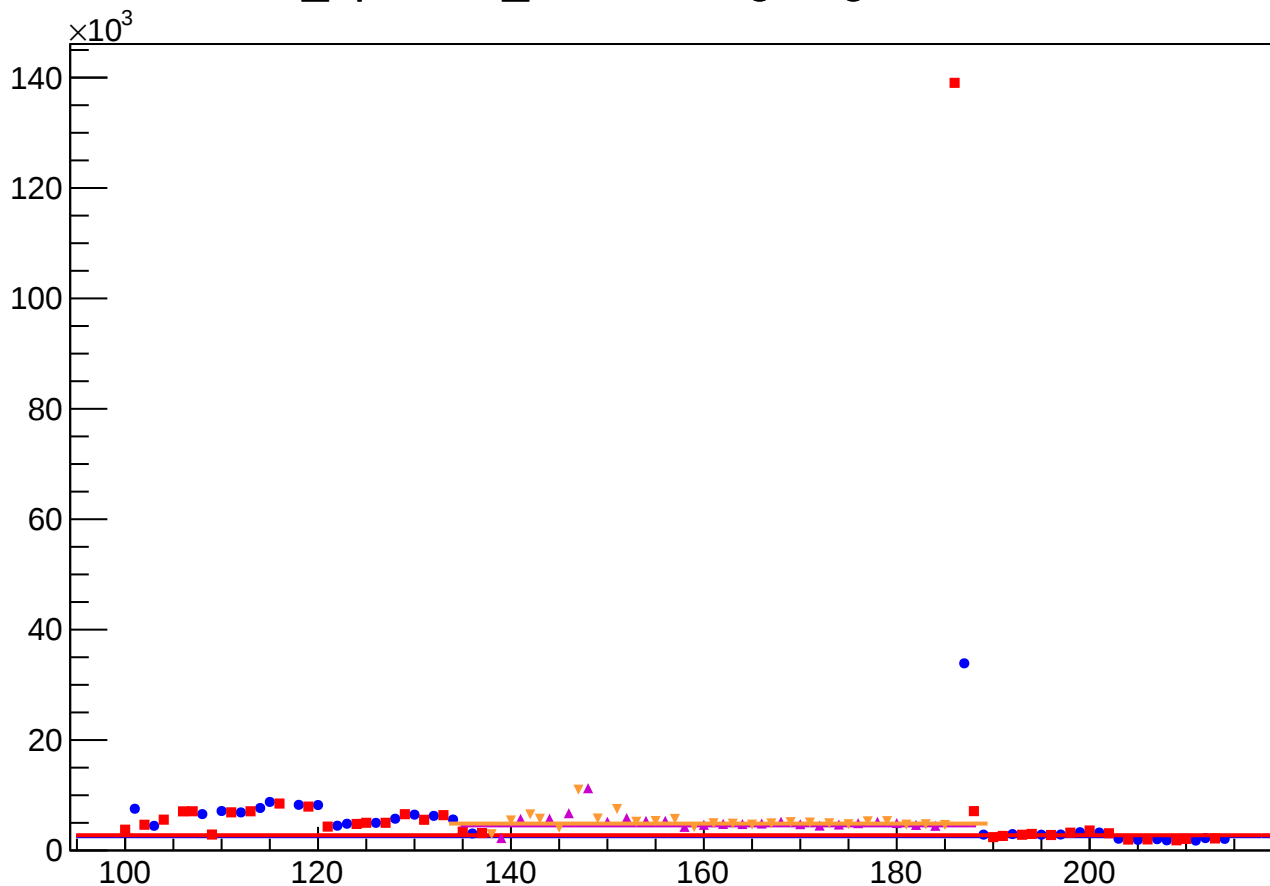
Right: 0.245 ± 0.510 $\chi^2/\text{NDF}: 117.4/64$

In: 1.116 ± 0.596 $\chi^2/\text{NDF}: 76.3/53$

Out: -0.684 ± 0.629 $\chi^2/\text{NDF}: 91.2/58$

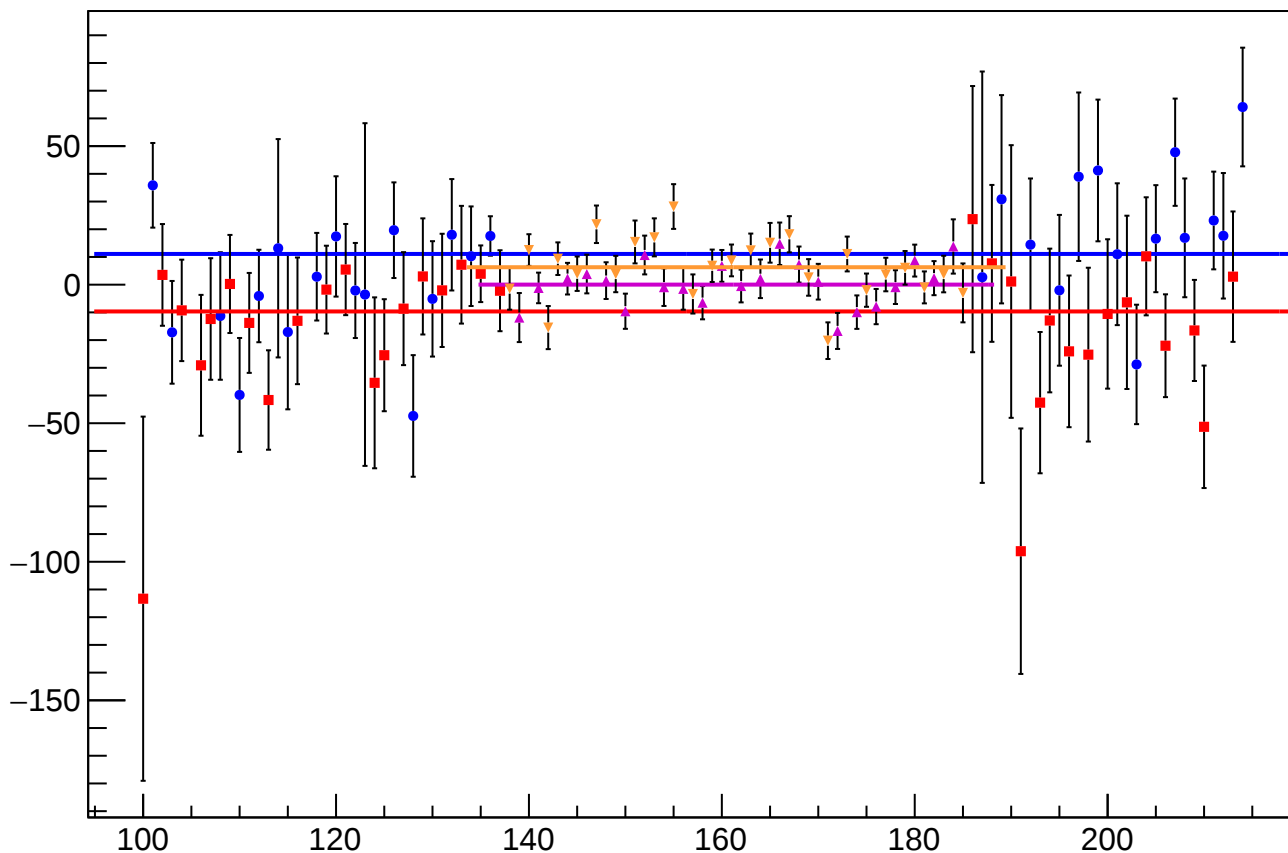
All: 0.264 ± 0.433 $\chi^2/\text{NDF}: 171.8/112$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2579.889 $\pm$ 0.494	χ^2/NDF : 5444668.1/30	Left: 4702.320 $\pm$ 0.578	χ^2/NDF : 4223993.0/47
Left Out: 4868.567 $\pm$ 0.829	χ^2/NDF : 1511151.0/24	Right: 2664.074 $\pm$ 0.360	χ^2/NDF : 11336994.9/64
Right Out: 2759.747 $\pm$ 0.527	χ^2/NDF : 5830305.5/33	In: 3114.881 $\pm$ 0.421	χ^2/NDF : 12383924.2/53
Left In: 4544.337 $\pm$ 0.808	χ^2/NDF : 2634314.4/22	Out: 3366.769 $\pm$ 0.445	χ^2/NDF : 11955307.0/58
		All: 3234.132 $\pm$ 0.306	χ^2/NDF : 24508321.0/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 11.088 $\pm$ 3.430 χ^2 /NDF: 40.4/30

Left Out: 6.296 $\pm$ 1.310 χ^2 /NDF:56.5/24

Right Out: -9.664 $\pm$ 3.577 χ^2 /NDF: 25.0/33

Left In: 0.020 $\pm$ 1.353 χ^2 /NDF:29.9/22

Left: 3.259 $\pm$ 0.941 χ^2 /NDF: 97.5/47

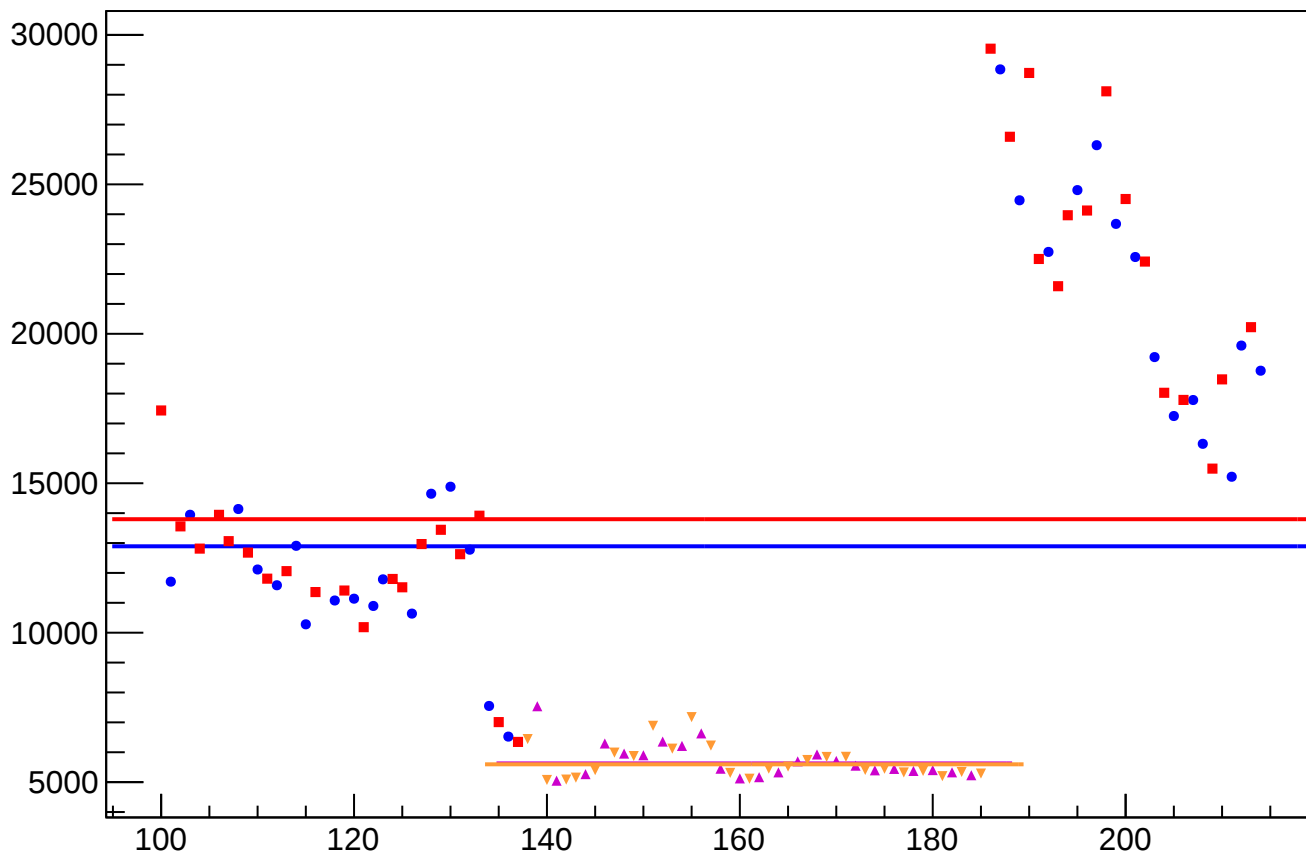
Right: 1.145 $\pm$ 2.476 χ^2 /NDF: 82.9/64

In: 1.510 $\pm$ 1.259 χ^2 /NDF:79.4/53

Out: 4.407 $\pm$ 1.230 χ^2 /NDF:99.0/58

All: 2.992 $\pm$ 0.880 χ^2 /NDF: 181.1/112

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12890.561 $\pm$ 2.426 χ^2 /NDF: 4820016.5/30

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF: 283998.1/24

Right Out: 13796.946 $\pm$ 2.529 χ^2 /NDF: 4653071.5/33

Left In: 5627.283 $\pm$ 0.957 χ^2 /NDF: 279318.7/22

Left: 5611.329 $\pm$ 0.666 χ^2 /NDF: 563855.6/47

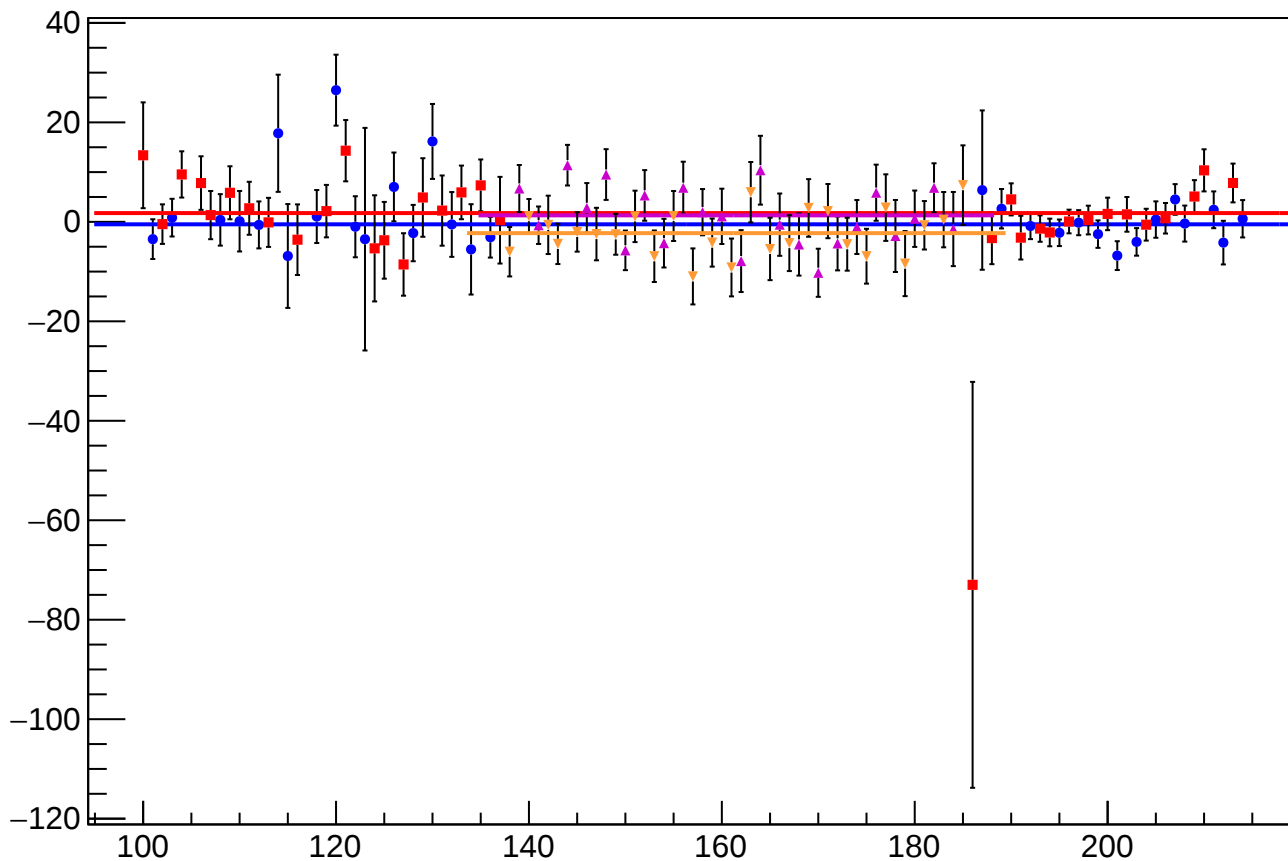
Right: 13324.852 $\pm$ 1.751 χ^2 /NDF: 9539991.0/64

In: 6605.195 $\pm$ 0.890 χ^2 /NDF: 12858484.5/53

Out: 6566.644 $\pm$ 0.870 χ^2 /NDF: 14207609.8/58

All: 6585.479 $\pm$ 0.622 χ^2 /NDF: 27067053.8/110

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.496 ± 0.736 χ^2/NDF : 37.0/30

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

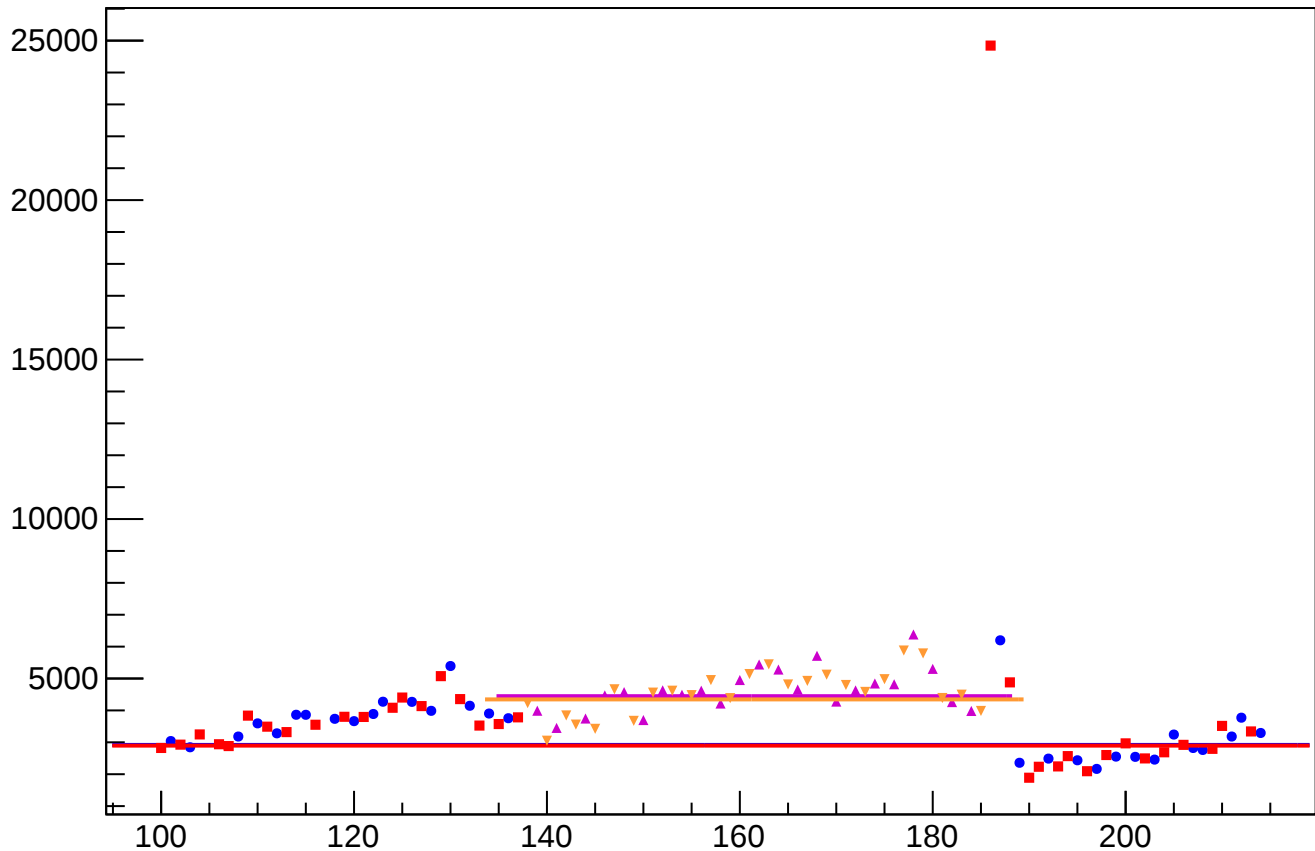
Right: 0.652 ± 0.516 χ^2/NDF : 77.0/64

In: 0.077 ± 0.607 χ^2/NDF : 69.7/53

Out: 0.429 ± 0.592 χ^2/NDF : 60.8/58

All: 0.258 ± 0.424 χ^2/NDF : 130.7/112

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2917.856+/-0.520 χ^2/NDF : 1411475.9/30

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

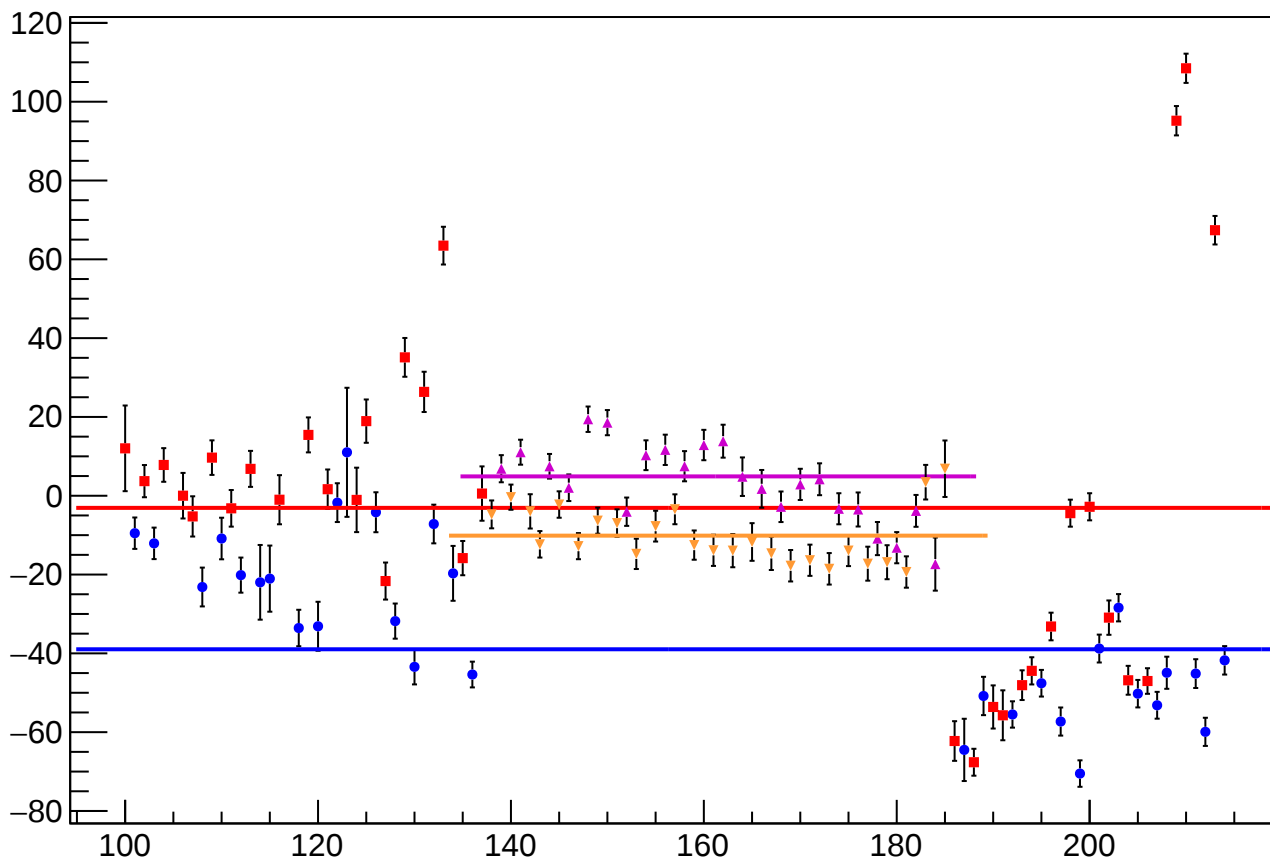
Right: 2907.060+/-0.365 χ^2/NDF : 3750742.6/64

In: 3403.974+/-0.430 χ^2/NDF : 4860427.3/53

Out: 3376.275+/-0.419 χ^2/NDF : 5988812.7/58

All: 3389.776+/-0.300 χ^2/NDF : 10851371.6/111

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -38.962 ± 0.763 $\chi^2/\text{NDF}: 576.2/30$

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 $\chi^2/\text{NDF}: 378.7/47$

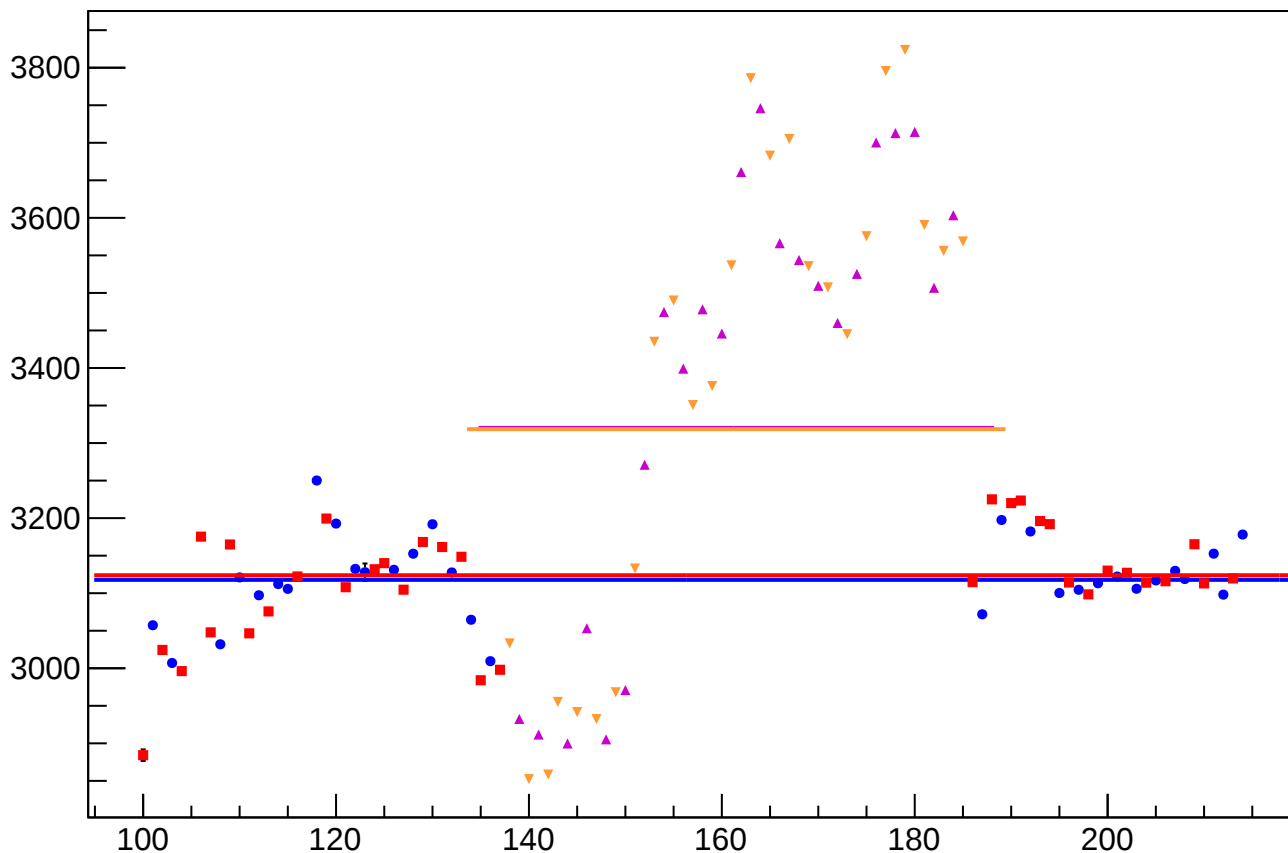
Right: -20.708 ± 0.535 $\chi^2/\text{NDF}: 5426.4/64$

In: -17.974 ± 0.551 $\chi^2/\text{NDF}: 2284.2/53$

Out: -6.484 ± 0.539 $\chi^2/\text{NDF}: 3836.7/58$

All: -12.101 ± 0.385 $\chi^2/\text{NDF}: 6342.9/112$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3117.811 $\pm$ 0.540 χ^2 /NDF: 9895.0/30

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

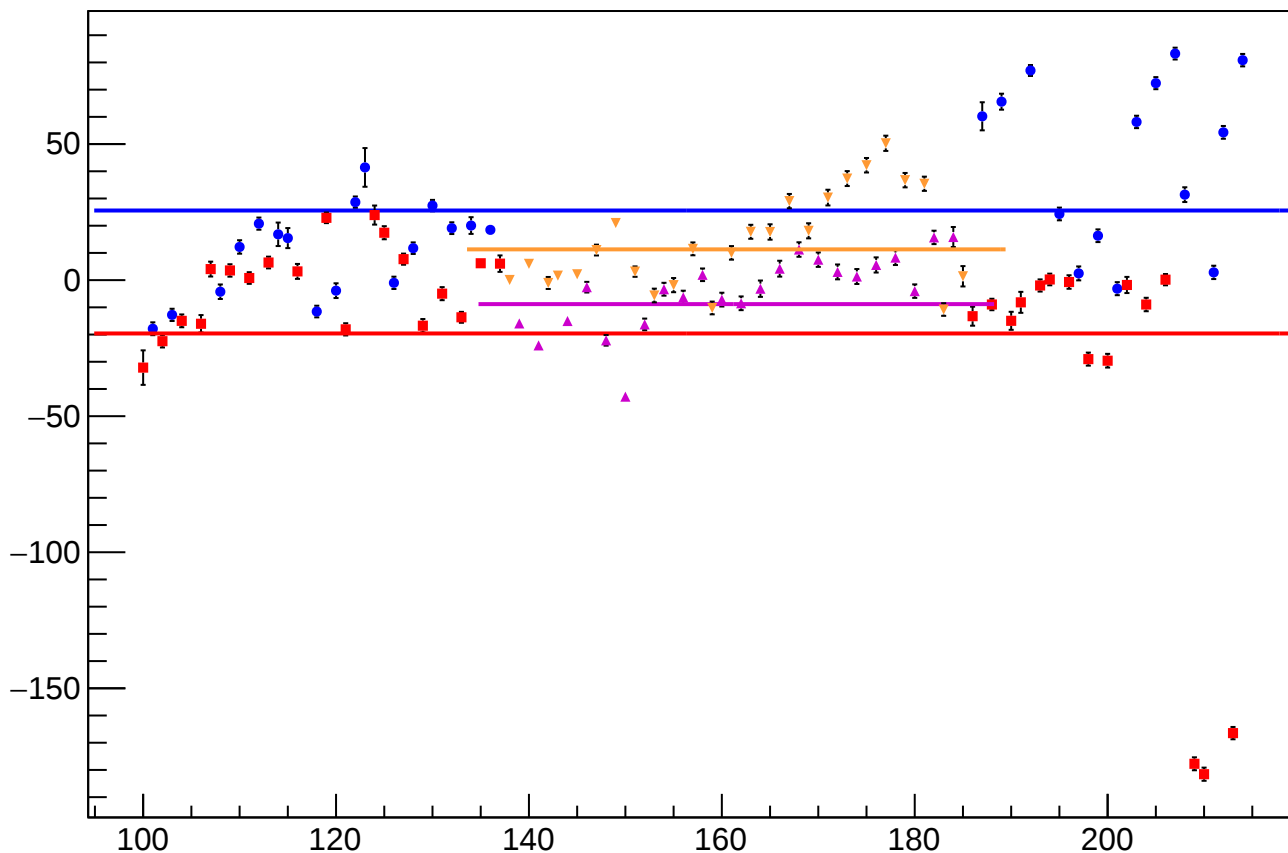
Right: 3120.913 $\pm$ 0.378 χ^2 /NDF: 23981.4/64

In: 3214.618 $\pm$ 0.390 χ^2 /NDF:364760.0/53

Out: 3217.995 $\pm$ 0.381 χ^2 /NDF:416768.1/58

All: 3216.344 $\pm$ 0.273 χ^2 /NDF: 781566.5/112

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 25.585 $\pm$ 0.425 χ^2 /NDF: 4752.4/30

Left Out: 11.305 $\pm$ 0.454 χ^2 /NDF:1144.3/24

Right Out: -19.602 $\pm$ 0.417 χ^2 /NDF: 15366.7/33

Left In: -8.815 $\pm$ 0.475 χ^2 /NDF:942.2/22

Left: 1.711 $\pm$ 0.328 χ^2 /NDF: 3023.6/47

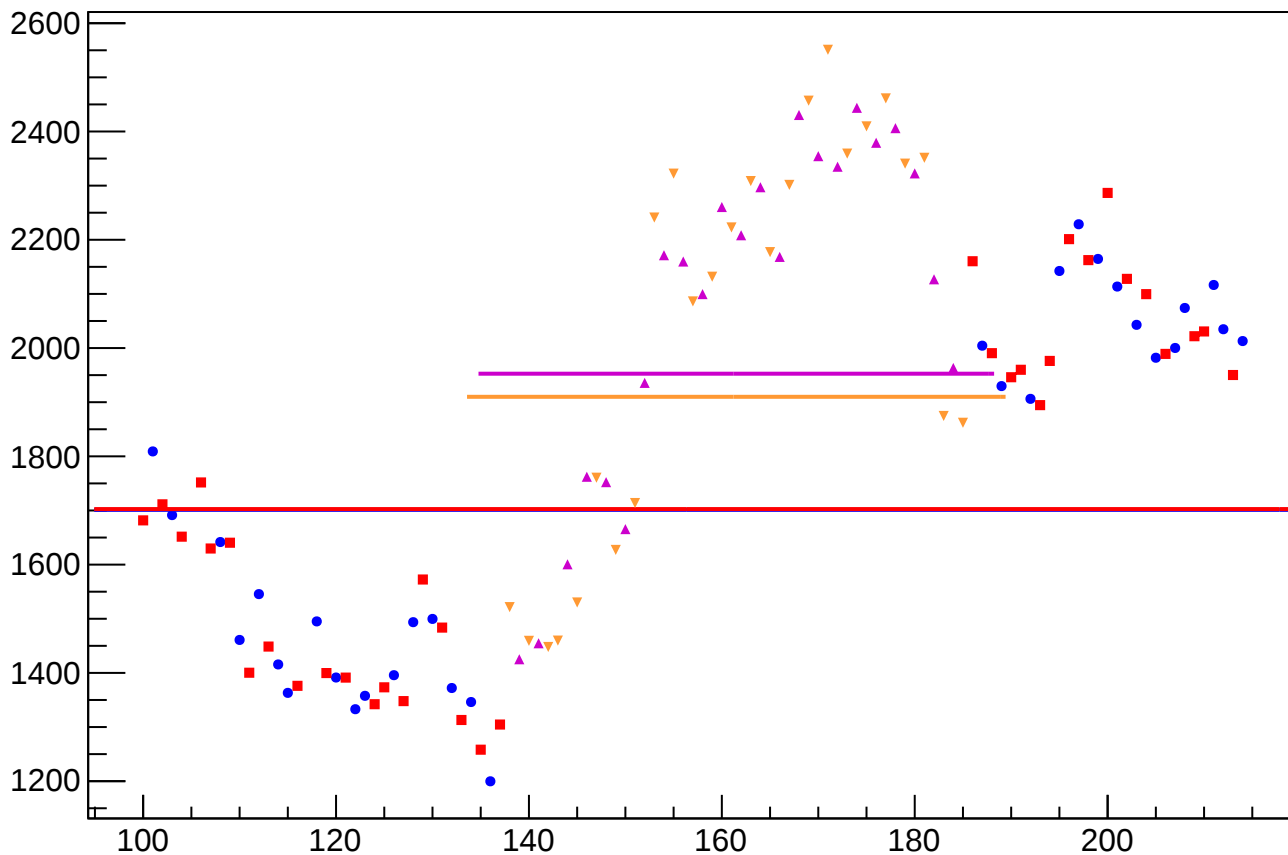
Right: 2.540 $\pm$ 0.298 χ^2 /NDF: 25881.3/64

In: 10.299 $\pm$ 0.317 χ^2 /NDF:8604.3/53

Out: -5.465 $\pm$ 0.307 χ^2 /NDF:19027.3/58

All: 2.166 $\pm$ 0.220 χ^2 /NDF: 28908.4/112

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1701.183 ± 0.301 $\chi^2/\text{NDF}: 1232276.5/30$

Left Out: 1909.963 ± 0.321 $\chi^2/\text{NDF}: 1399467.7/24$

Right Out: 1702.580 ± 0.295 $\chi^2/\text{NDF}: 1183022.7/33$

Left In: 1952.637 ± 0.336 $\chi^2/\text{NDF}: 1065333.8/22$

Left: 1930.313 ± 0.232 $\chi^2/\text{NDF}: 2473233.3/47$

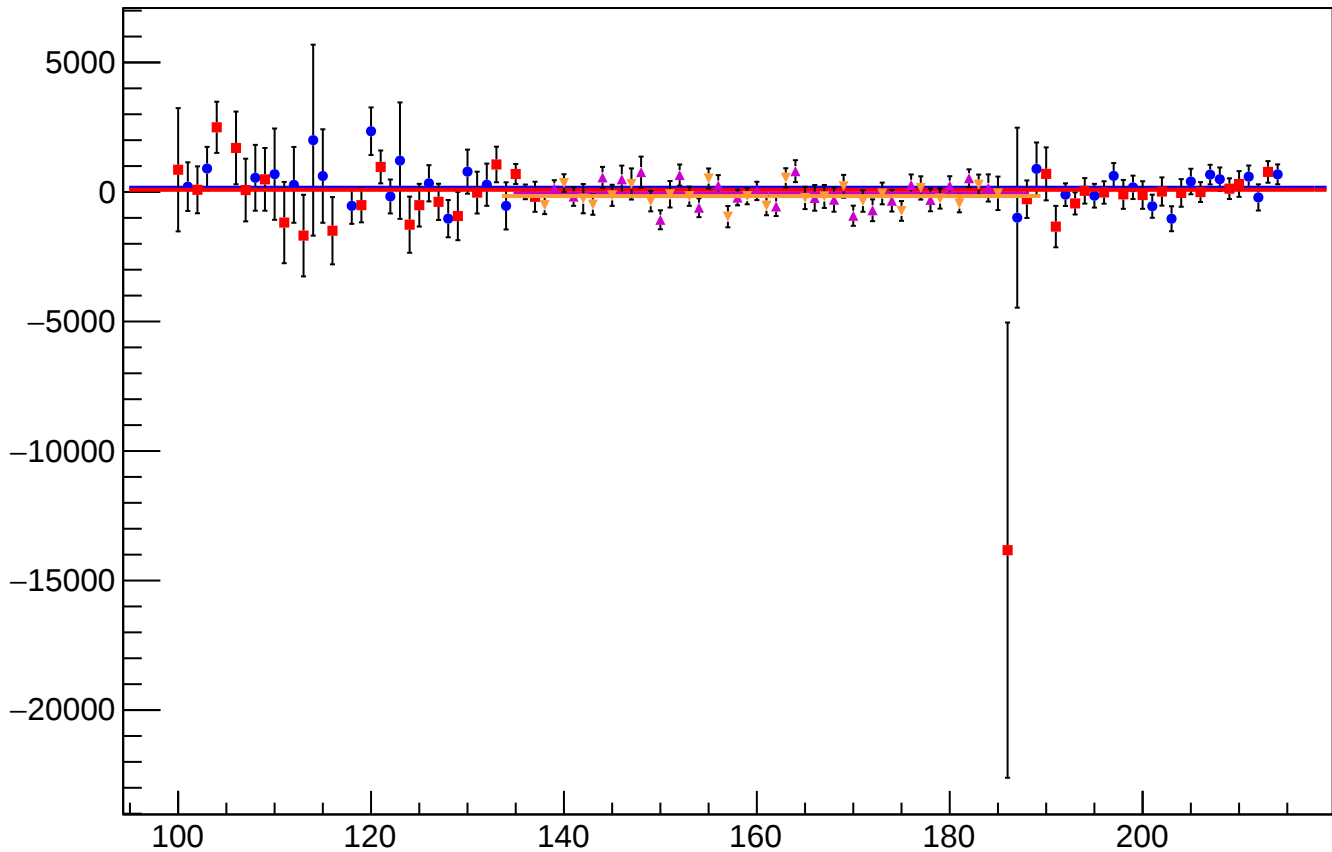
Right: 1701.895 ± 0.210 $\chi^2/\text{NDF}: 2415310.2/64$

In: 1812.917 ± 0.224 $\chi^2/\text{NDF}: 2608559.8/53$

Out: 1797.438 ± 0.217 $\chi^2/\text{NDF}: 2809074.8/58$

All: 1804.931 ± 0.156 $\chi^2/\text{NDF}: 5420096.7/11$

asym_sam1_mean vs Slug, Sign Corrected



Right In: 163.950+/-104.224 χ^2/NDF : 29.6/30

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

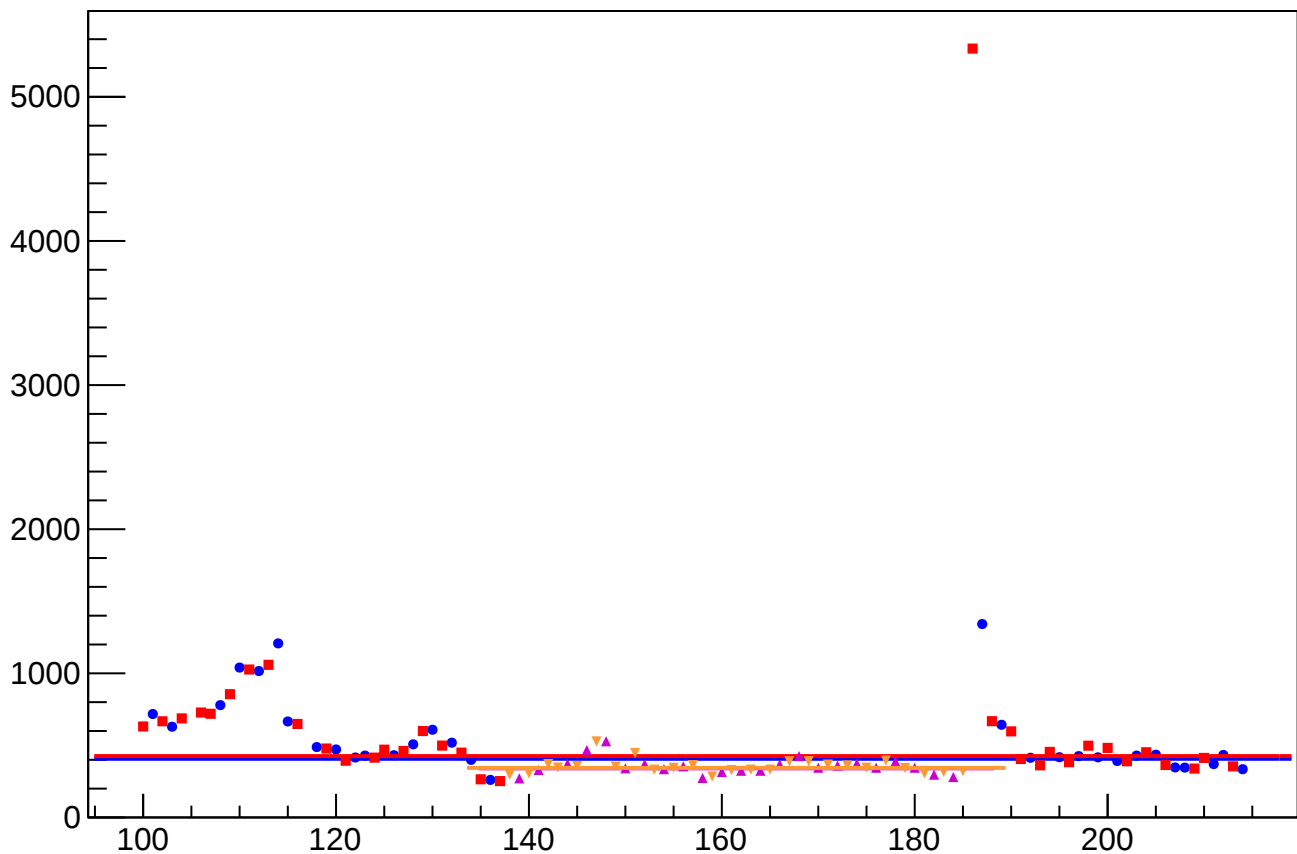
Right: 125.312+/-75.131 χ^2/NDF : 63.1/64

In: 27.032+/-64.728 χ^2/NDF :71.0/53

Out: -71.259+/-64.781 χ^2/NDF :58.4/58

All: -22.073+/-45.788 χ^2/NDF : 130.6/112

asym_sam1_rms vs Slug, Sign Corrected



Right In: 407.179+/-0.074 χ^2/NDF : 2483085.3/30

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

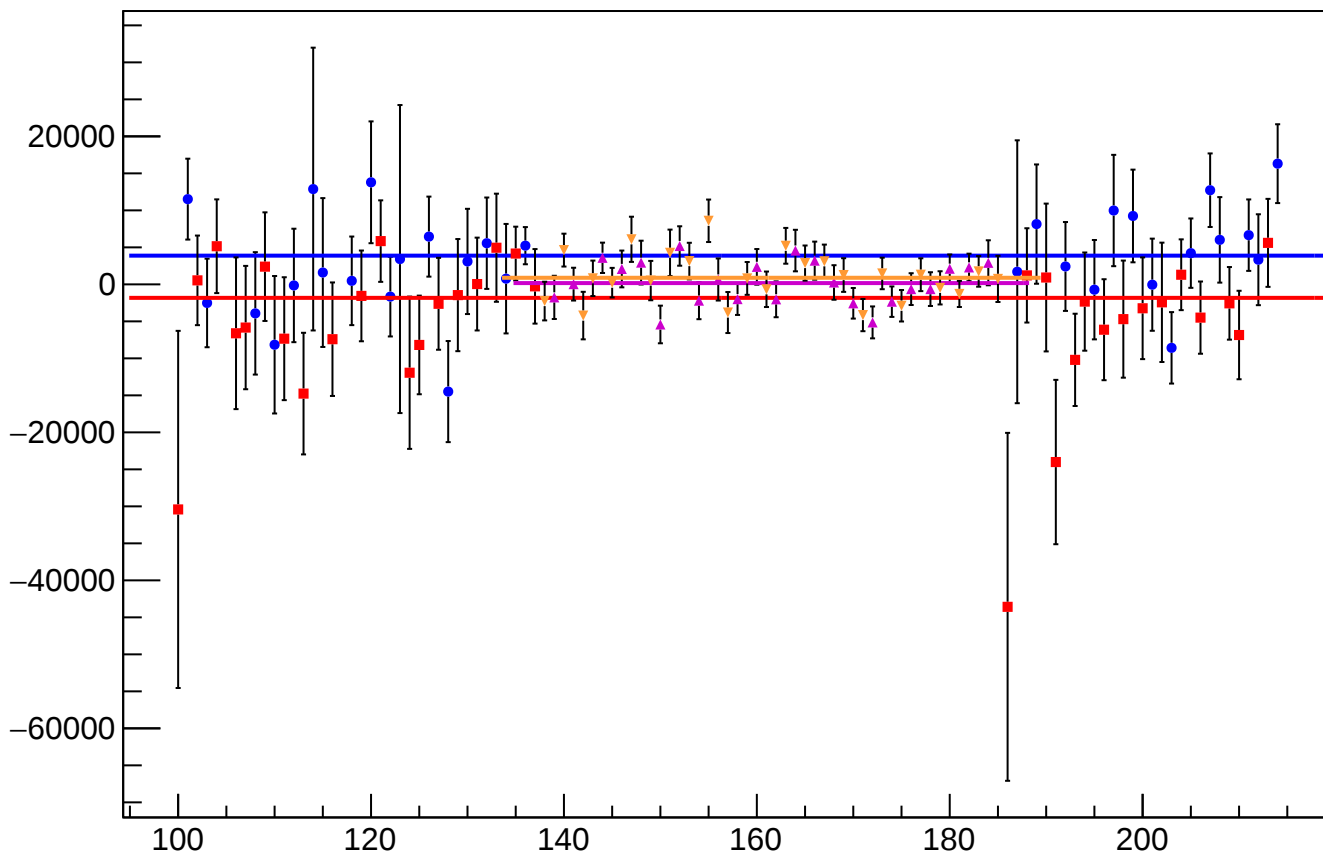
Right: 416.103+/-0.053 χ^2/NDF : 5843032.8/64

In: 366.449+/-0.046 χ^2/NDF : 3704970.8/53

Out: 373.074+/-0.046 χ^2/NDF : 4603675.1/58

All: 369.759+/-0.032 χ^2/NDF : 8319113.0/112

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3880.826 ± 1068.390 χ^2/NDF : 35.4/30

Left Out: 890.395 ± 473.262 χ^2/NDF : 38.0/24

Right Out: -1823.345 ± 1126.801 χ^2/NDF : 27.5/33

Left In: 172.391 ± 488.067 χ^2/NDF : 33.2/22

Left: 542.448 ± 339.760 χ^2/NDF : 72.3/47

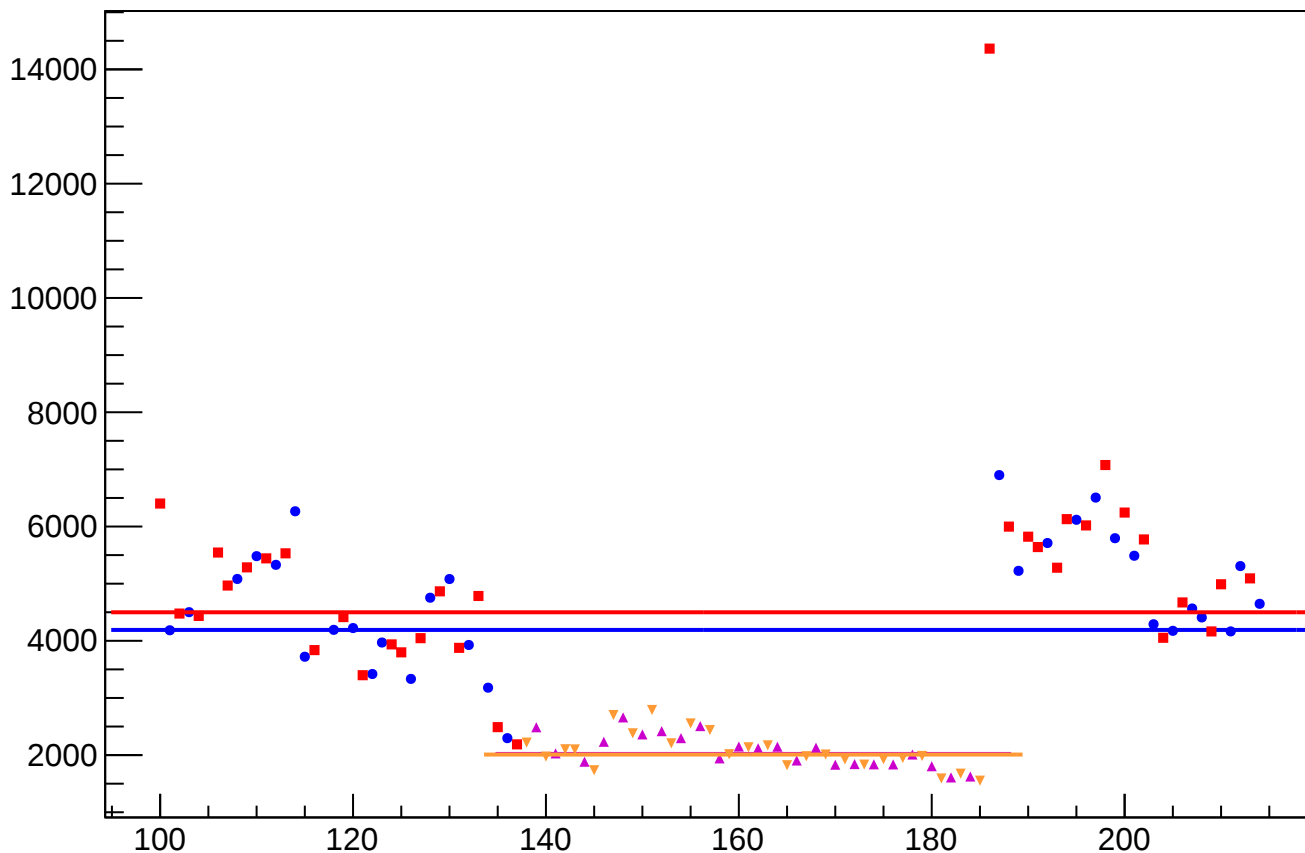
Right: 1180.412 ± 775.293 χ^2/NDF : 76.4/64

In: 812.680 ± 443.938 χ^2/NDF : 78.6/53

Out: 483.464 ± 436.338 χ^2/NDF : 70.3/58

All: 645.230 ± 311.190 χ^2/NDF : 149.2/112

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4190.532 $\pm$ 0.755 χ^2/NDF : 2330286.1/30

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

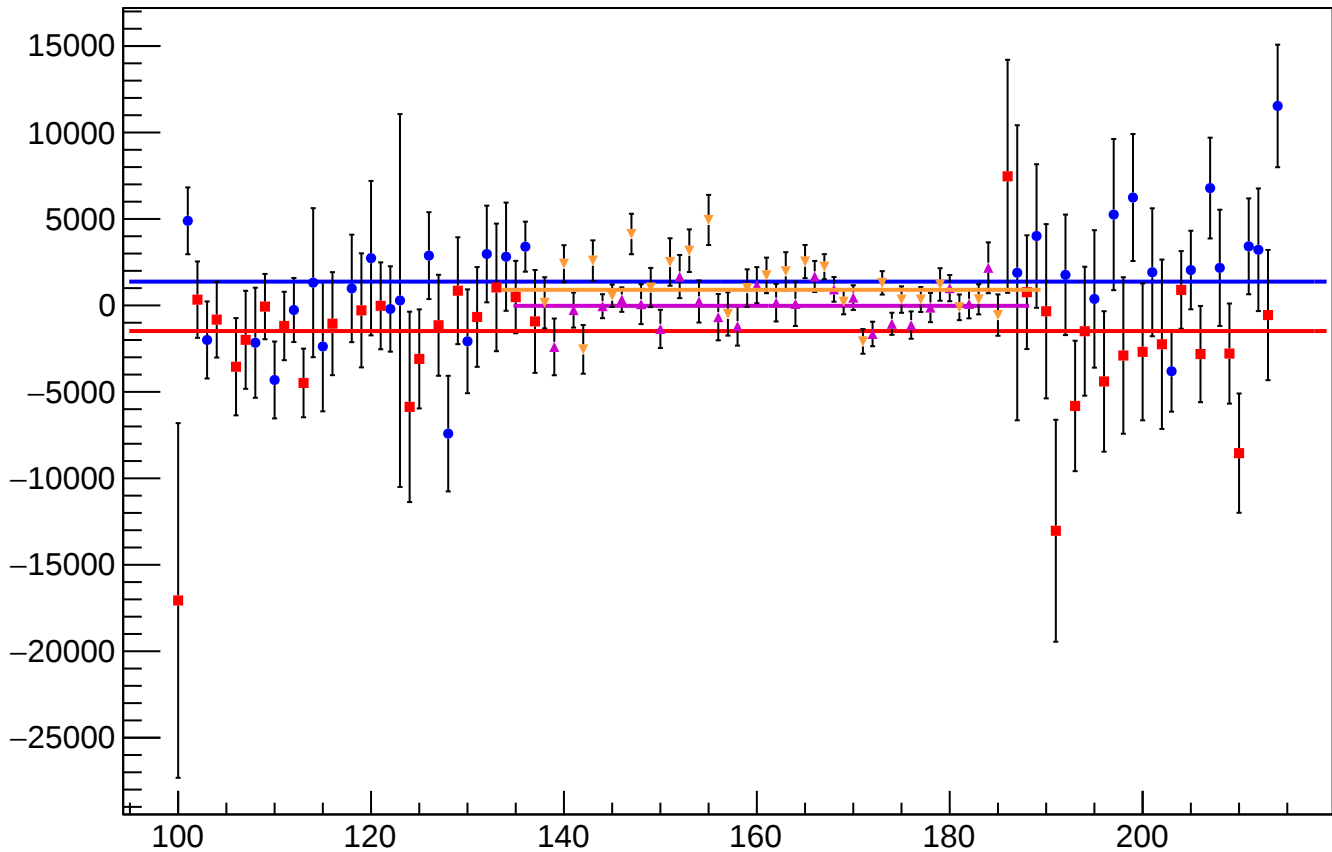
Right: 4336.749 $\pm$ 0.548 χ^2/NDF : 4949249.5/64

In: 2395.061 $\pm$ 0.314 χ^2/NDF : 9730961.1/53

Out: 2382.976 $\pm$ 0.309 χ^2/NDF : 11550118.6/58

All: 2388.914 $\pm$ 0.220 χ^2/NDF : 21281833.5/1

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1377.039 $\pm$ 508.368 χ^2 /NDF: 47.3/30

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

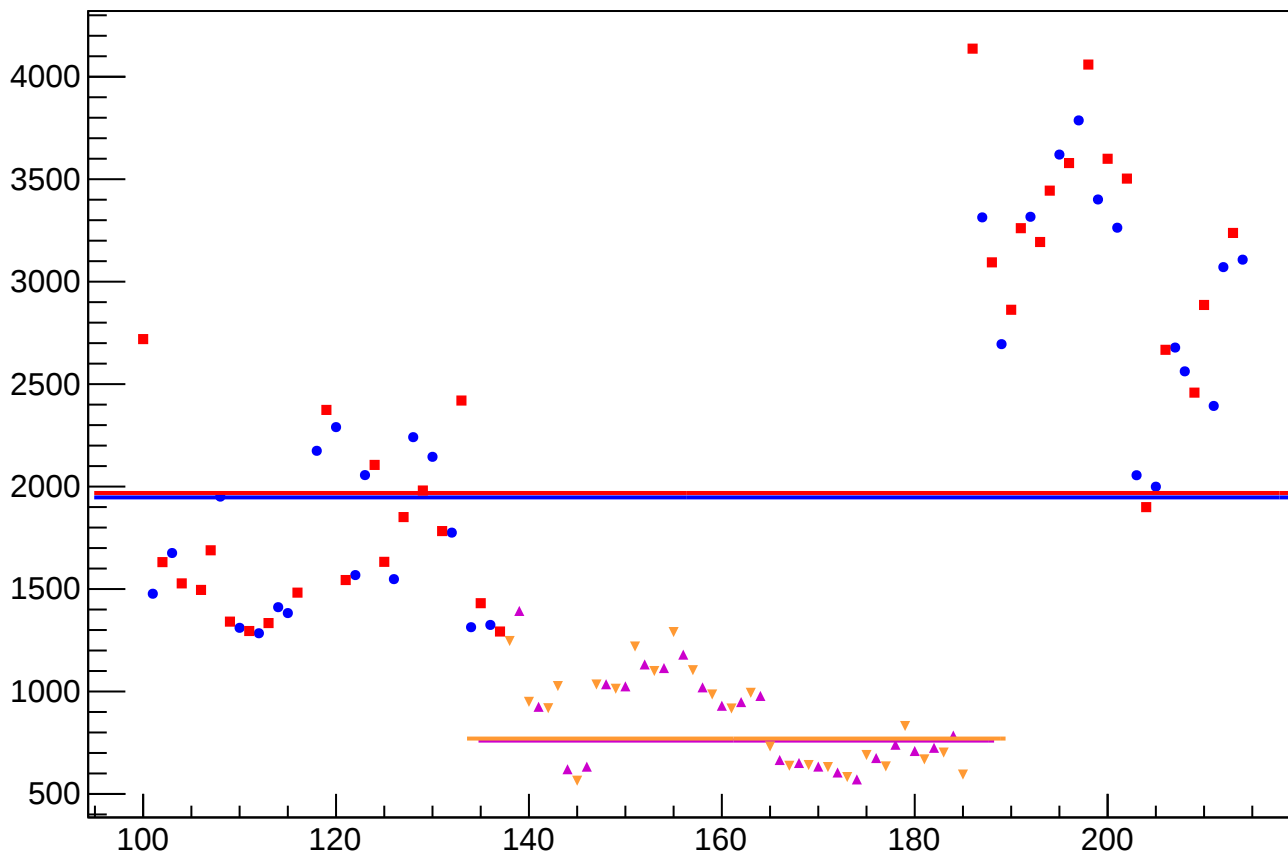
Right: -53.281 $\pm$ 359.349 χ^2 /NDF: 86.5/64

In: 145.184 $\pm$ 176.442 χ^2 /NDF: 82.2/53

Out: 620.726 $\pm$ 174.538 χ^2 /NDF: 106.3/58

All: 385.535 $\pm$ 124.084 χ^2 /NDF: 192.2/112

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1947.218 $\pm$ 0.359 χ^2 /NDF: 3614554.8/30

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

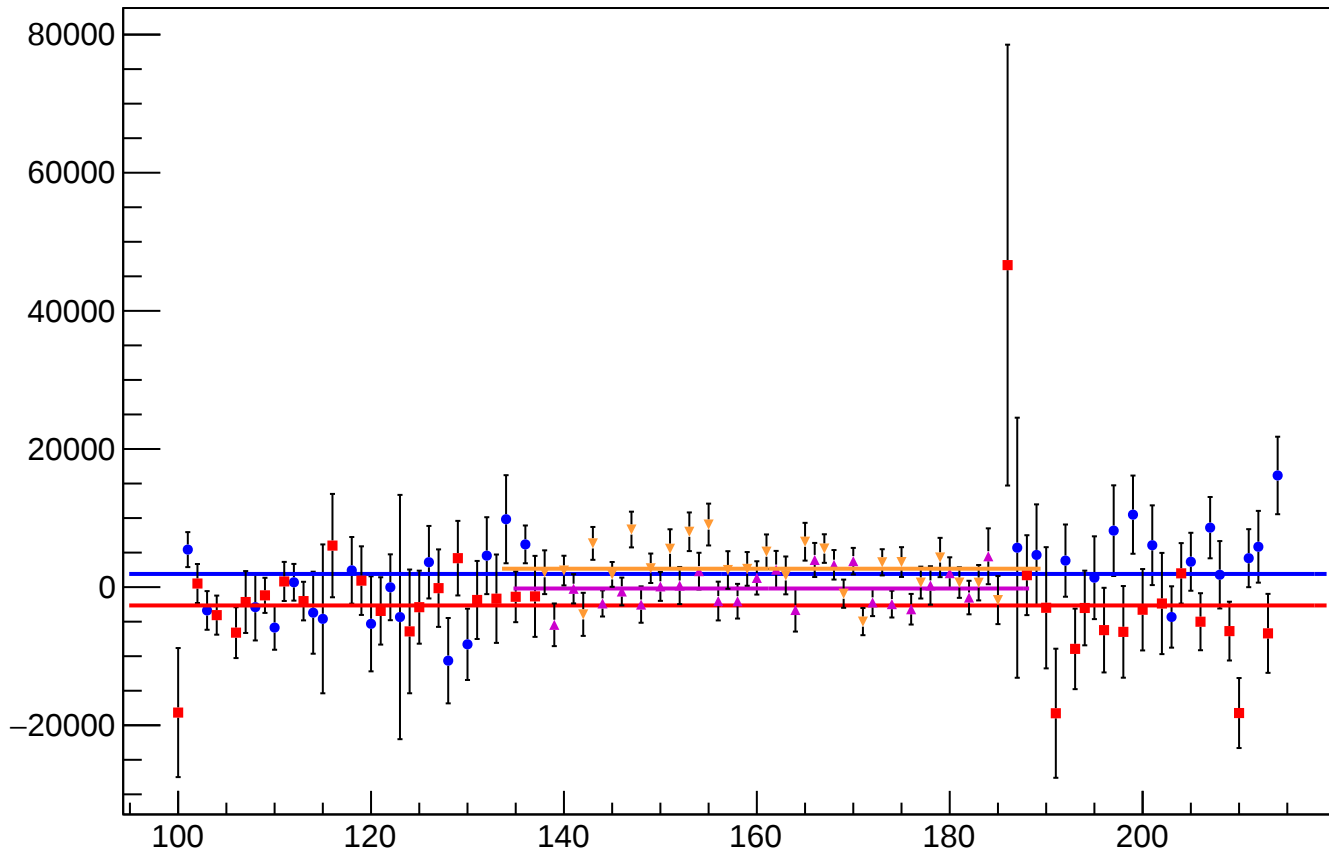
Right: 1958.021 $\pm$ 0.254 χ^2 /NDF: 7875081.5/64

In: 903.323 $\pm$ 0.125 χ^2 /NDF: 15189412.8/53

Out: 911.782 $\pm$ 0.123 χ^2 /NDF: 16363381.0/58

All: 907.598 $\pm$ 0.088 χ^2 /NDF: 31555117.2/111

asym_sam4_mean vs Slug, Sign Corrected



Right In: 1908.864 $\pm$ 816.501 χ^2/NDF : 43.4/30

Left Out: 2665.587 $\pm$ 479.773 χ^2/NDF : 49.2/24

Right Out: -2652.399 $\pm$ 786.139 χ^2/NDF : 31.2/33

Left In: -199.371 $\pm$ 492.082 χ^2/NDF : 25.8/22

Left: 1269.388 $\pm$ 343.520 χ^2/NDF : 92.4/47

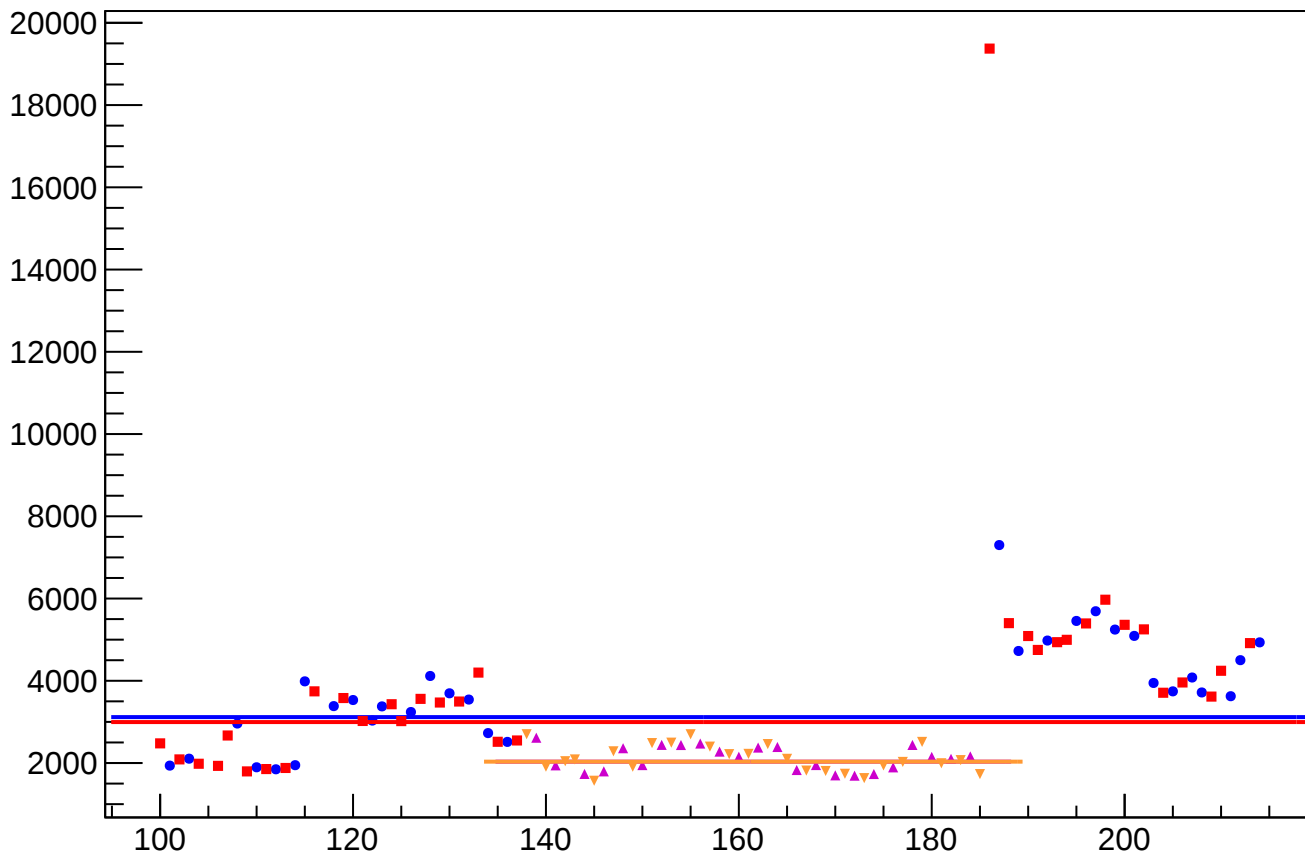
Right: -458.152 $\pm$ 566.314 χ^2/NDF : 90.7/64

In: 362.345 $\pm$ 421.459 χ^2/NDF : 74.0/53

Out: 1222.399 $\pm$ 409.531 χ^2/NDF : 113.7/58

All: 804.715 $\pm$ 293.709 χ^2/NDF : 189.9/112

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3116.702+/-0.577 χ^2/NDF : 3939769.6/30

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

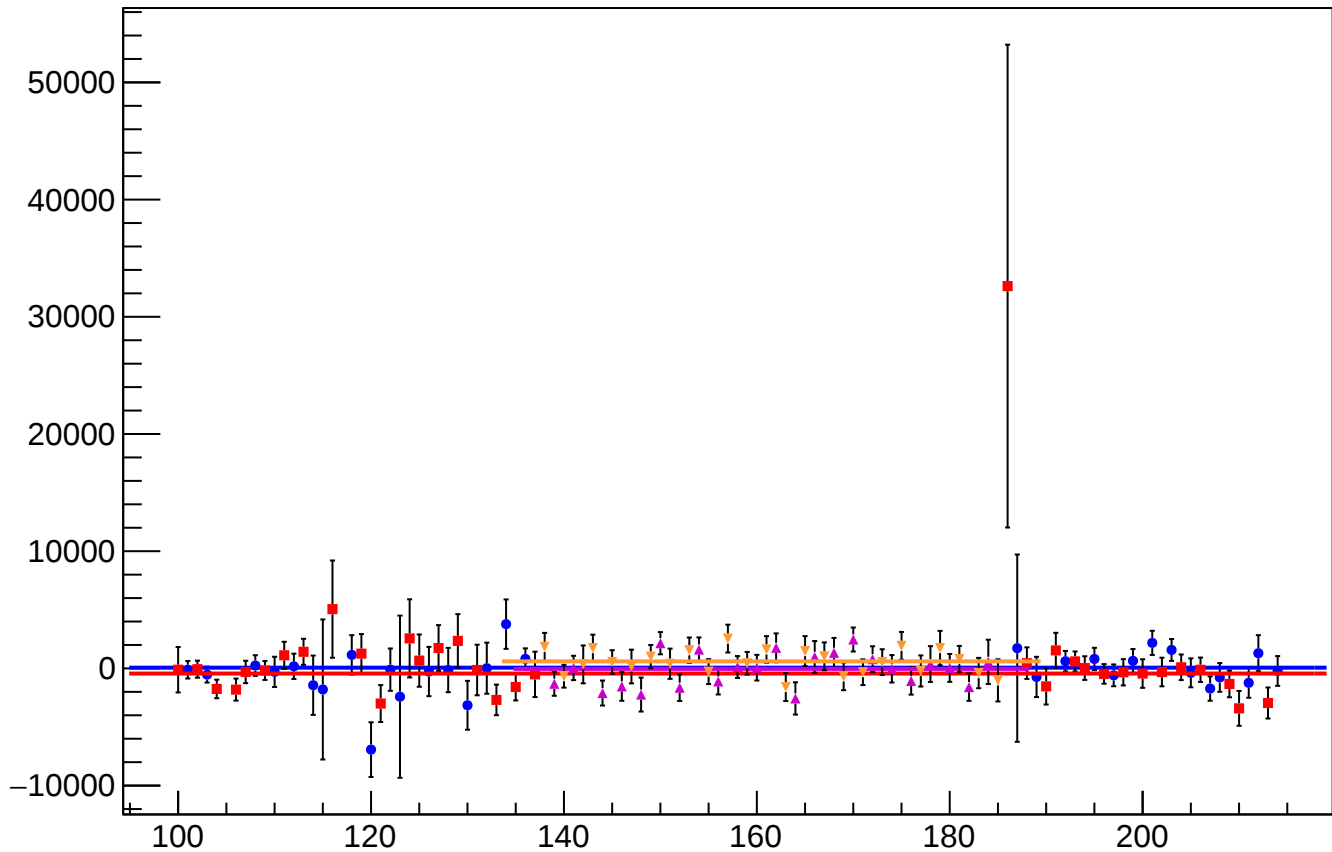
Right: 3054.076+/-0.400 χ^2/NDF : 9244787.4/64

In: 2321.487+/-0.298 χ^2/NDF : 7178653.9/53

Out: 2294.589+/-0.290 χ^2/NDF : 8291657.2/58

All: 2307.652+/-0.208 χ^2/NDF : 15474501.1/113

asym_sam5_mean vs Slug, Sign Corrected



Right In: 62.272 ± 217.952 χ^2/NDF : 31.3/30

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

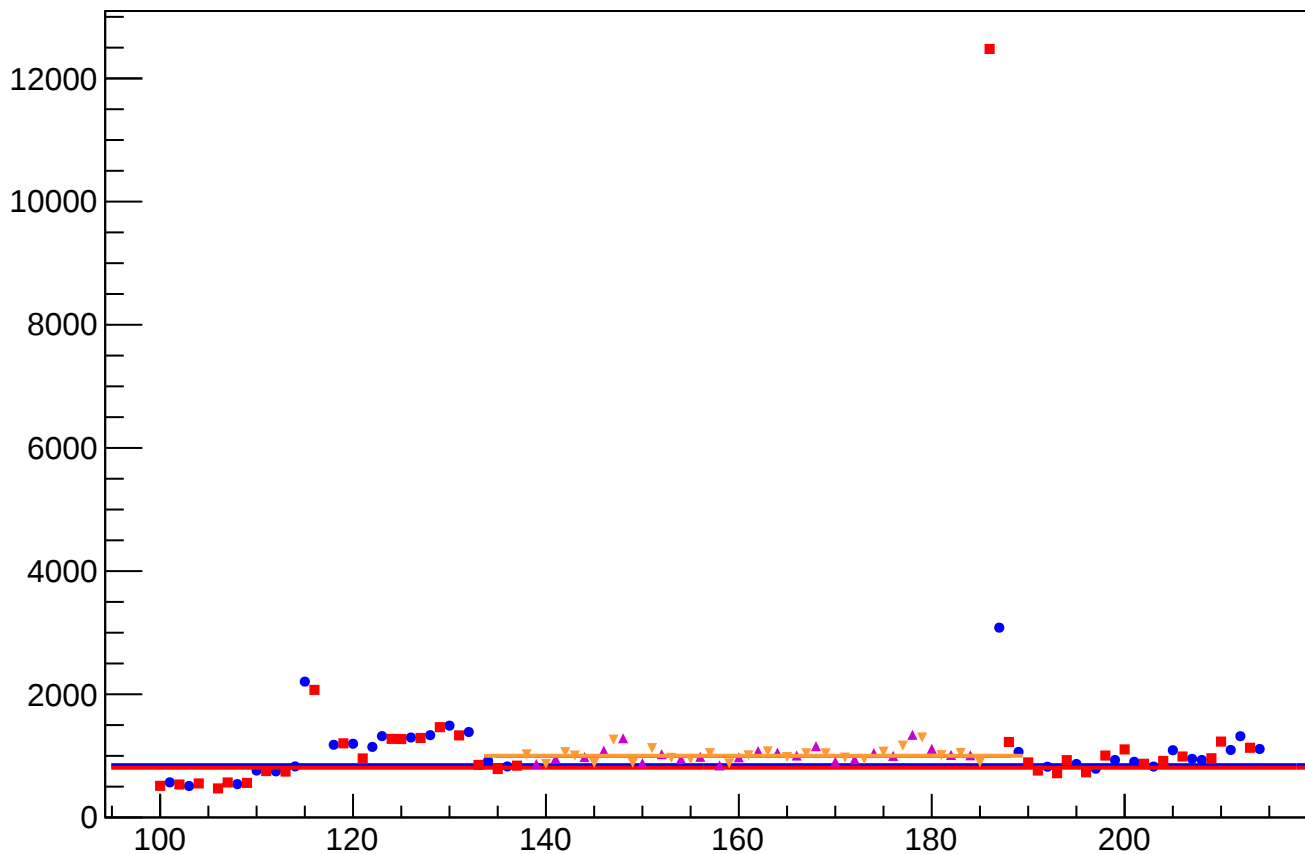
Right: -201.288 ± 150.018 χ^2/NDF : 72.7/64

In: 15.517 ± 161.593 χ^2/NDF : 67.8/53

Out: 14.770 ± 155.239 χ^2/NDF : 68.1/58

All: 15.128 ± 111.950 χ^2/NDF : 135.9/112

asym_sam5_rms vs Slug, Sign Corrected



Right In: 848.938+/-0.154 χ^2/NDF : 2543363.4/30

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

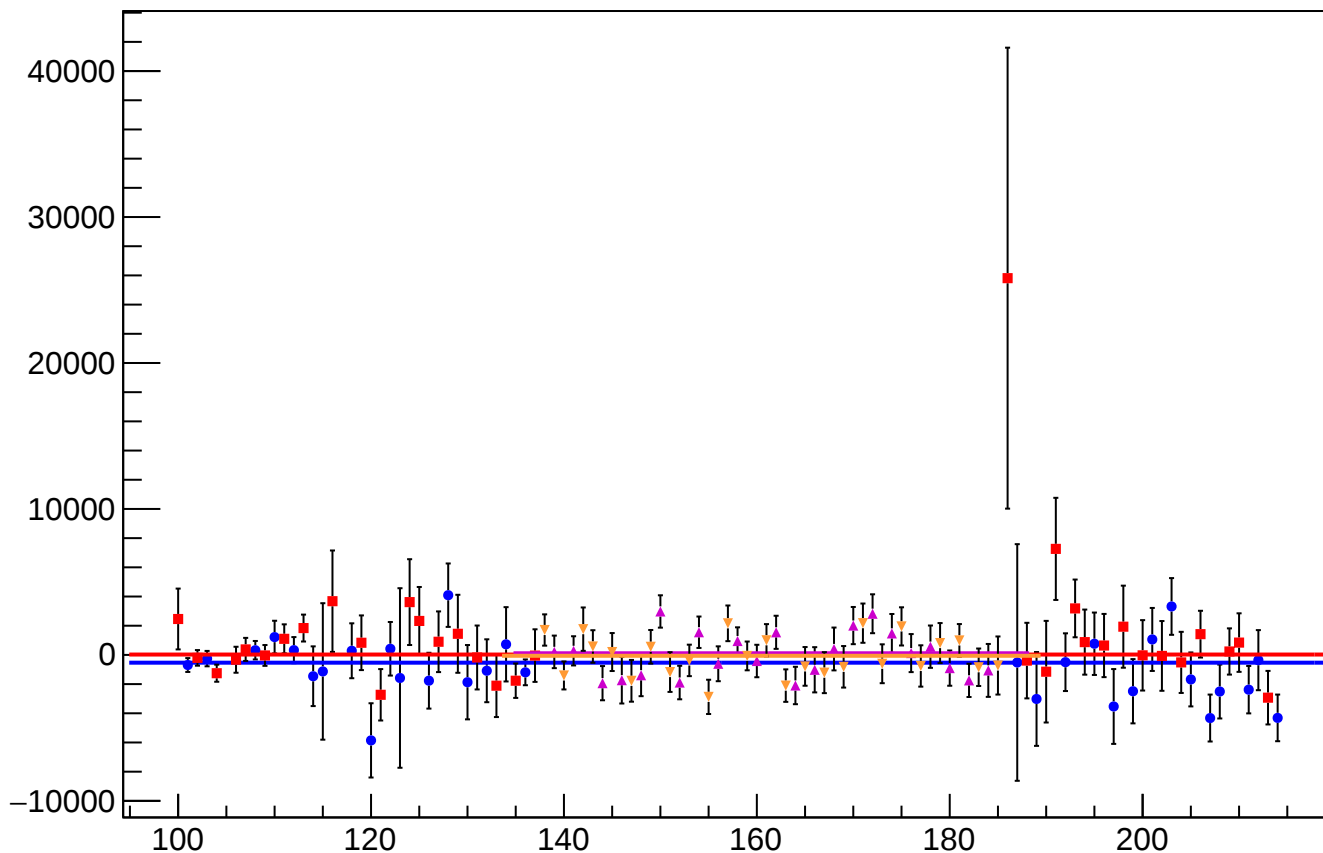
Right: 827.299+/-0.106 χ^2/NDF : 6045523.3/64

In: 916.084+/-0.114 χ^2/NDF : 3369560.9/53

Out: 892.348+/-0.110 χ^2/NDF : 4600518.9/58

All: 903.740+/-0.079 χ^2/NDF : 7992519.8/112

asym_sam6_mean vs Slug, Sign Corrected



Right In: -532.753 ± 227.523 χ^2/NDF : 38.4/30

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

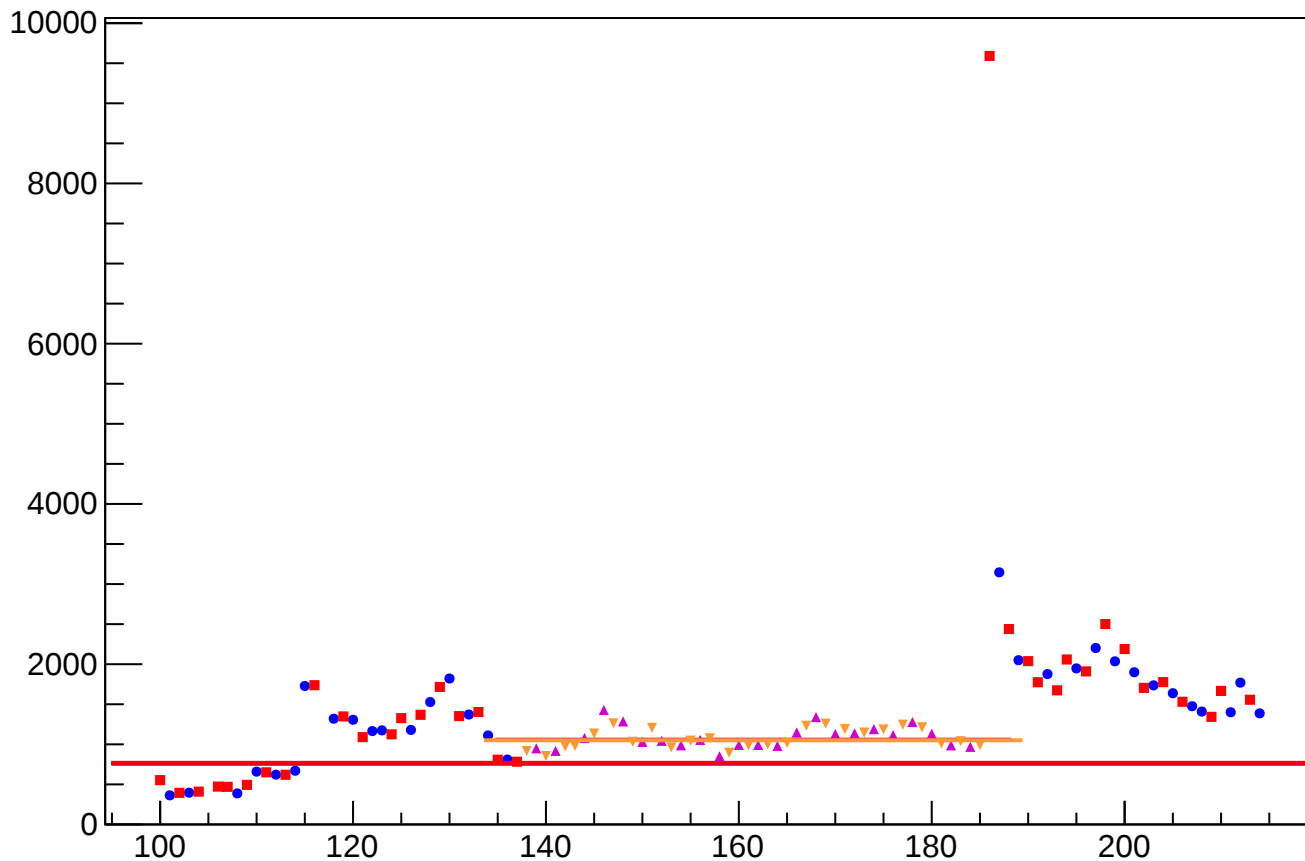
Right: -252.390 ± 160.463 χ^2/NDF : 77.1/64

In: -247.308 ± 169.890 χ^2/NDF : 76.8/53

Out: -13.767 ± 166.720 χ^2/NDF : 66.7/58

All: -128.338 ± 118.994 χ^2/NDF : 144.5/112

asym_sam6_rms vs Slug, Sign Corrected



Right In: 759.045 $\pm$ 0.161 χ^2 /NDF: 10779173.3/30

Left Out: 1050.649 $\pm$ 0.174 χ^2 /NDF:483144.2/24

Right Out: 768.984 $\pm$ 0.160 χ^2 /NDF: 11176465.3/33

Left In: 1058.097 $\pm$ 0.181 χ^2 /NDF:528574.7/22

Left: 1054.241 $\pm$ 0.125 χ^2 /NDF: 1012599.4/47

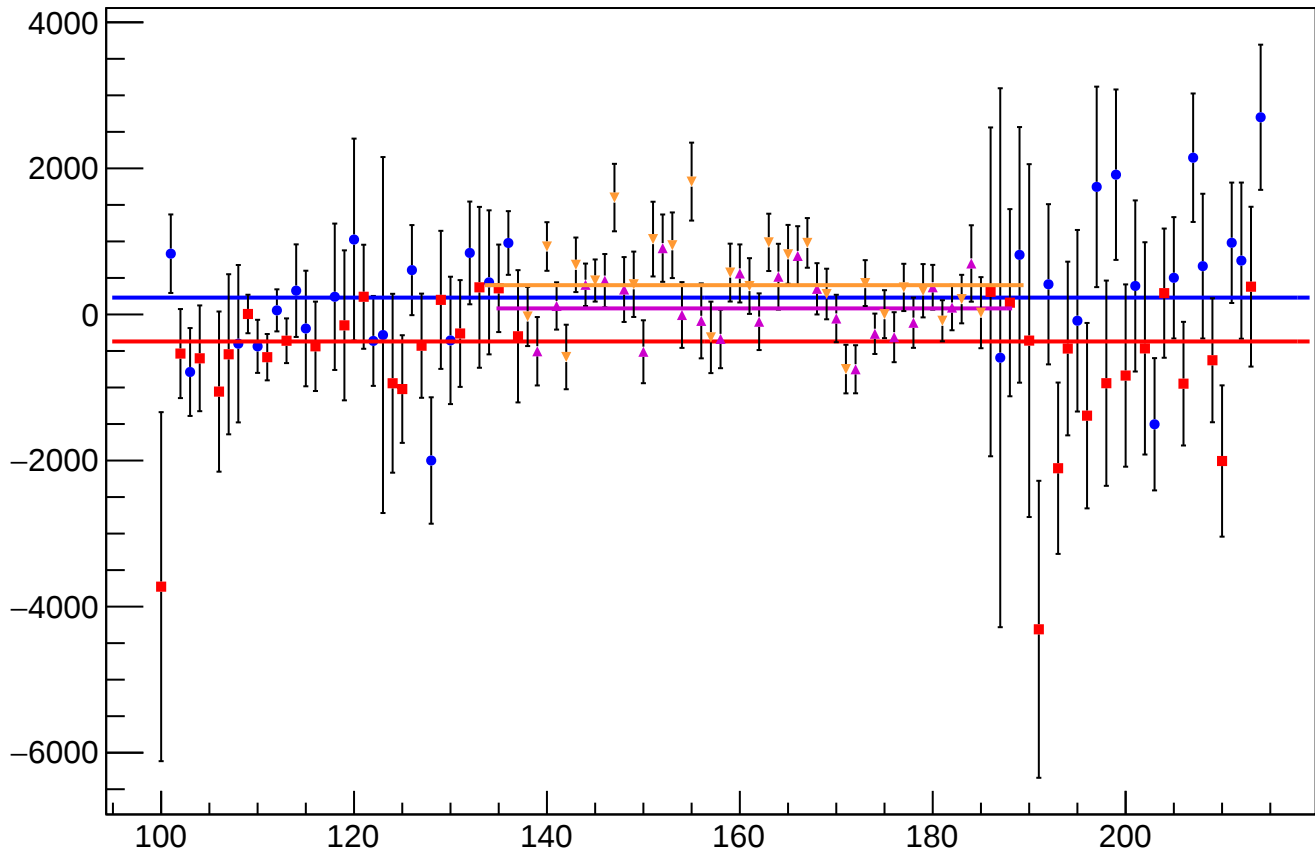
Right: 764.040 $\pm$ 0.113 χ^2 /NDF: 21957556.6/64

In: 891.360 $\pm$ 0.120 χ^2 /NDF:12836493.8/53

Out: 897.827 $\pm$ 0.118 χ^2 /NDF:13076394.9/58

All: 894.654 $\pm$ 0.084 χ^2 /NDF: 25914365.2/111

asym_sam7_mean vs Slug, Sign Corrected



Right In: 230.836+/-128.109 χ^2/NDF : 40.5/30

Left Out: 400.988+/-74.546 χ^2/NDF : 52.1/24

Right Out: -369.747+/-119.466 χ^2/NDF : 20.4/33

Left In: 82.890+/-76.904 χ^2/NDF : 29.0/22

Left: 246.889+/-53.526 χ^2/NDF : 89.9/47

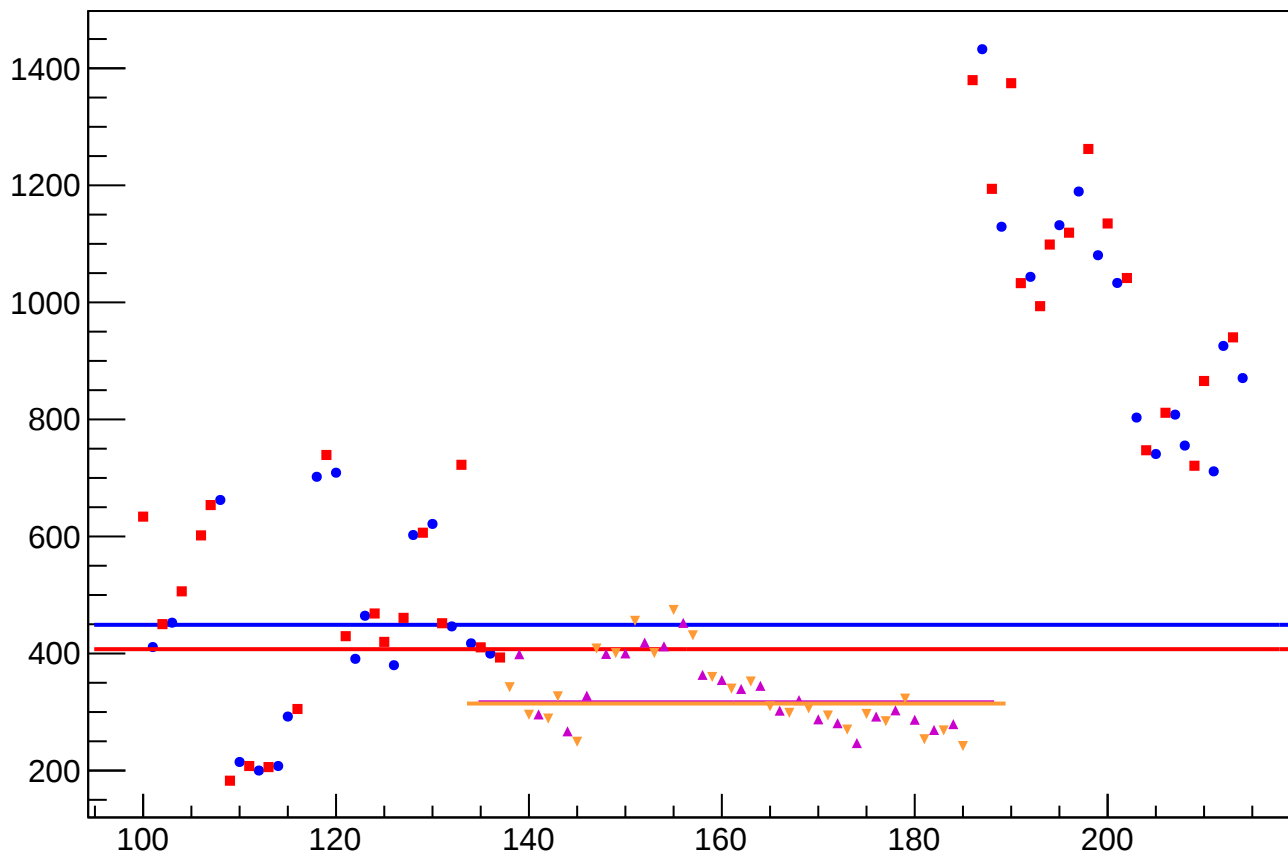
Right: -90.398+/-87.371 χ^2/NDF : 72.7/64

In: 122.081+/-65.936 χ^2/NDF : 70.5/53

Out: 184.988+/-63.244 χ^2/NDF : 102.5/58

All: 154.845+/-45.642 χ^2/NDF : 173.4/112

asym_sam7_rms vs Slug, Sign Corrected



Right In: 449.031+/-0.091 χ^2/NDF : 8532656.6/30

Left Out: 314.538+/-0.053 χ^2/NDF : 1112445.6/24

Right Out: 407.424+/-0.084 χ^2/NDF : 11017110.3/33

Left In: 316.647+/-0.054 χ^2/NDF : 920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

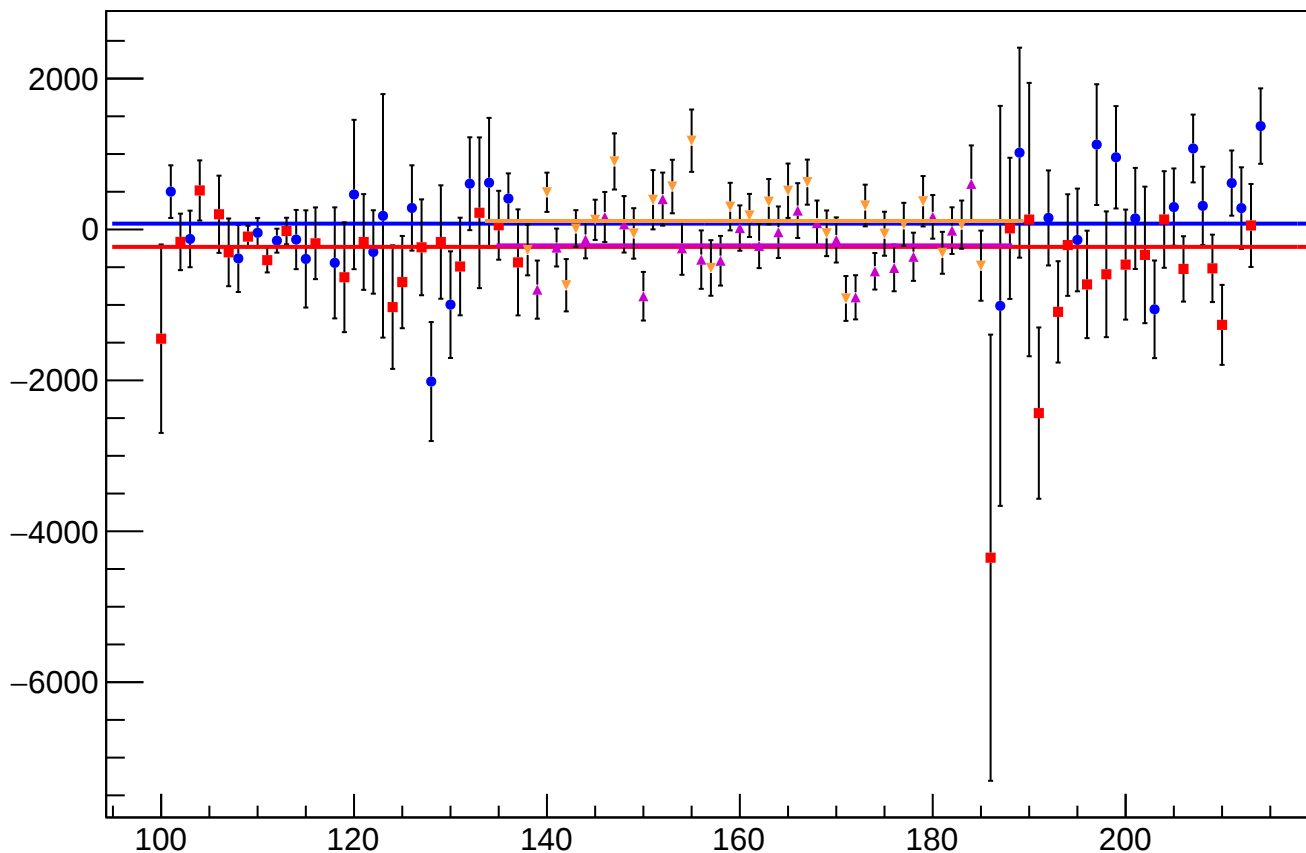
Right: 426.777+/-0.062 χ^2/NDF : 19662603.5/64

In: 351.715+/-0.047 χ^2/NDF : 11023494.4/53

Out: 340.570+/-0.045 χ^2/NDF : 12999770.6/58

All: 345.910+/-0.032 χ^2/NDF : 24053029.9/111

asym_sam8_mean vs Slug, Sign Corrected



Right In: 77.487 ± 78.924 χ^2/NDF : 39.7/30

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

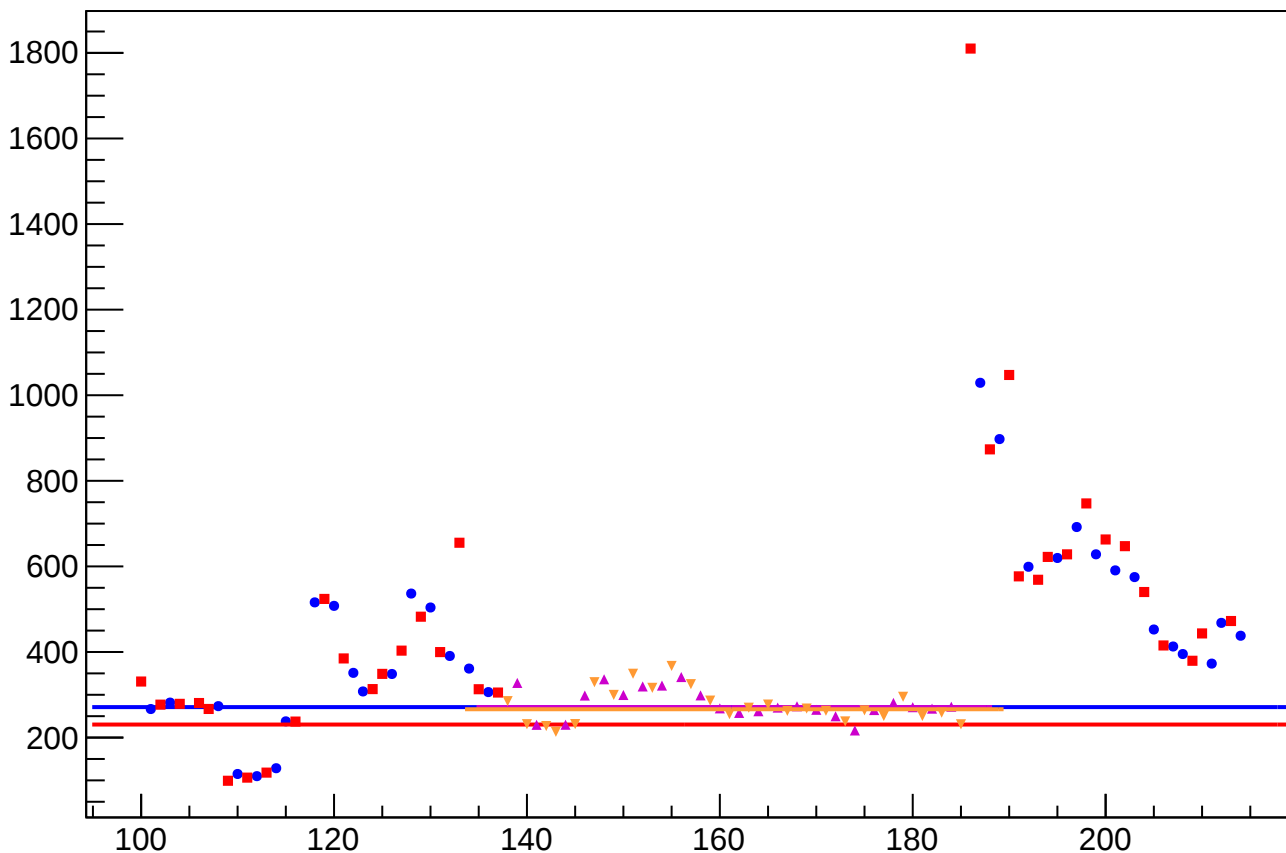
Right: -94.202 ± 52.540 χ^2/NDF : 73.2/64

In: -92.996 ± 50.408 χ^2/NDF : 76.8/53

Out: -39.344 ± 46.801 χ^2/NDF : 87.4/58

All: -64.182 ± 34.298 χ^2/NDF : 164.7/112

asym_sam8_rms vs Slug, Sign Corrected



Right In: 271.201+/-0.056 χ^2/NDF : 9405612.2/30

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 230.453+/-0.050 χ^2/NDF : 12833622.4/33

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

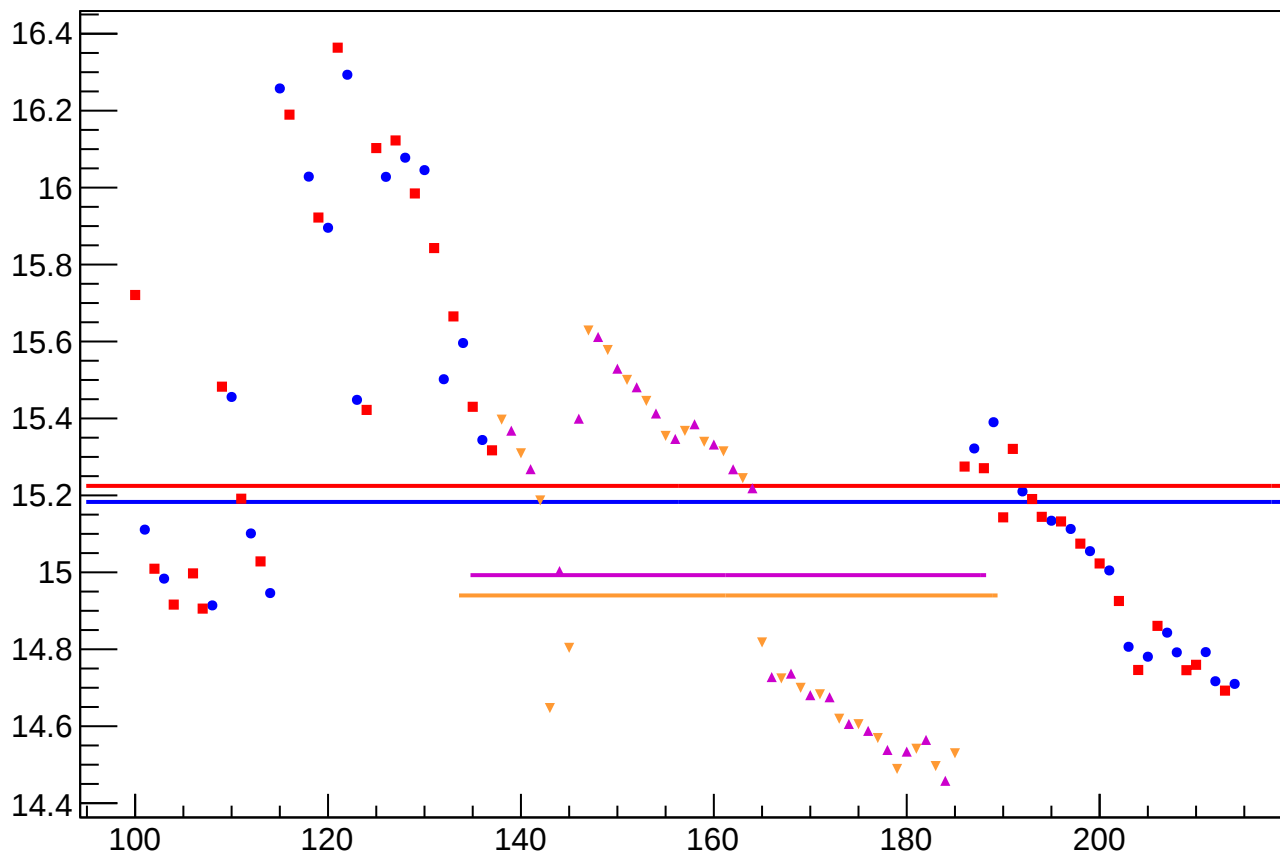
Right: 248.511+/-0.037 χ^2/NDF : 22536104.6/64

In: 271.328+/-0.036 χ^2/NDF : 9927498.5/53

Out: 250.410+/-0.033 χ^2/NDF : 13771124.5/58

All: 260.094+/-0.024 χ^2/NDF : 23883594.5/117

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.183 $\pm$ 0.000 χ^2 /NDF: 18501318445.0/30

Left Out: 14.940 $\pm$ 0.000 χ^2 /NDF: 24199653913.9/24

Right Out: 15.225 $\pm$ 0.000 χ^2 /NDF: 17289690065.7/33

Left In: 14.993 $\pm$ 0.000 χ^2 /NDF: 22023159634.7/22

Left: 14.965 $\pm$ 0.000 χ^2 /NDF: 46444749587.5/47

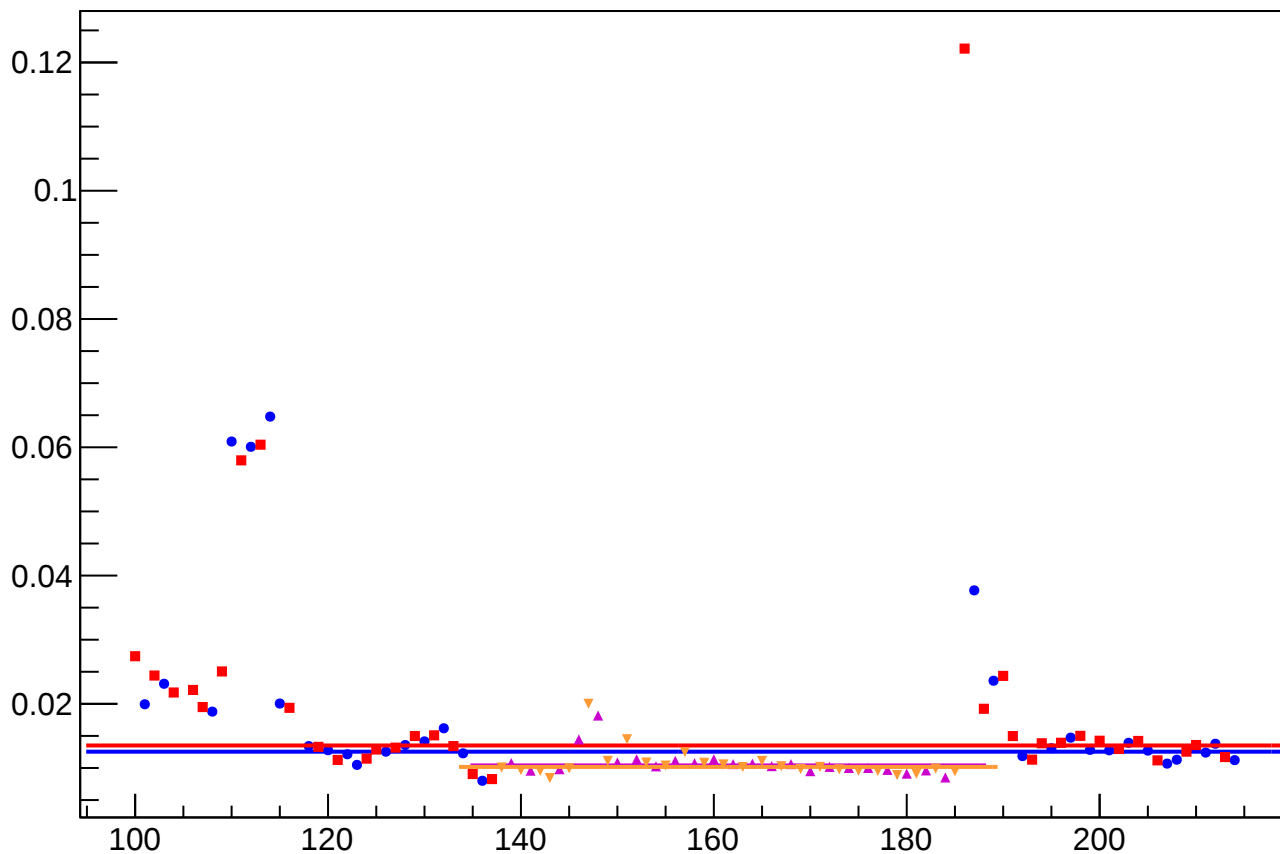
Right: 15.202 $\pm$ 0.000 χ^2 /NDF: 35866118523.4/64

In: 15.065 $\pm$ 0.000 χ^2 /NDF: 42607590373.0/53

Out: 15.033 $\pm$ 0.000 χ^2 /NDF: 45912309722.9/58

All: 15.049 $\pm$ 0.000 χ^2 /NDF: 88645084731.7

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2602822.1/30

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

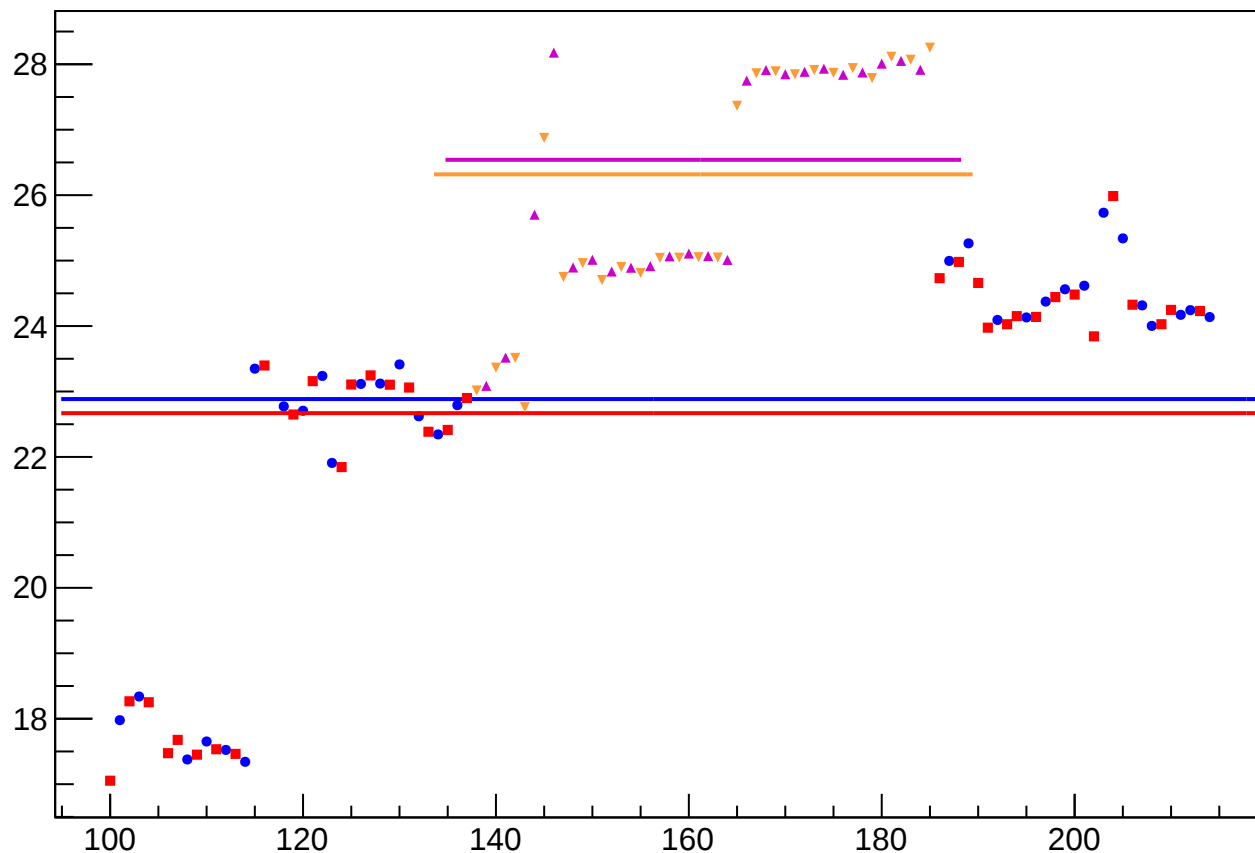
Right: 0.013+/-0.000 χ^2/NDF : 5818425.1/64

In: 0.011+/-0.000 χ^2/NDF : 3675606.6/53

Out: 0.011+/-0.000 χ^2/NDF : 5072631.2/58

All: 0.011+/-0.000 χ^2/NDF : 8748766.0/112

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.884+/-0.000

χ^2/NDF : 1383441957.7/30

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right Out: 22.669+/-0.000

χ^2/NDF : 1568954765.7/33

Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Right: 22.783+/-0.000

χ^2/NDF : 2961647540.6/64

In: 25.640+/-0.000

χ^2/NDF : 8957529514.4/53

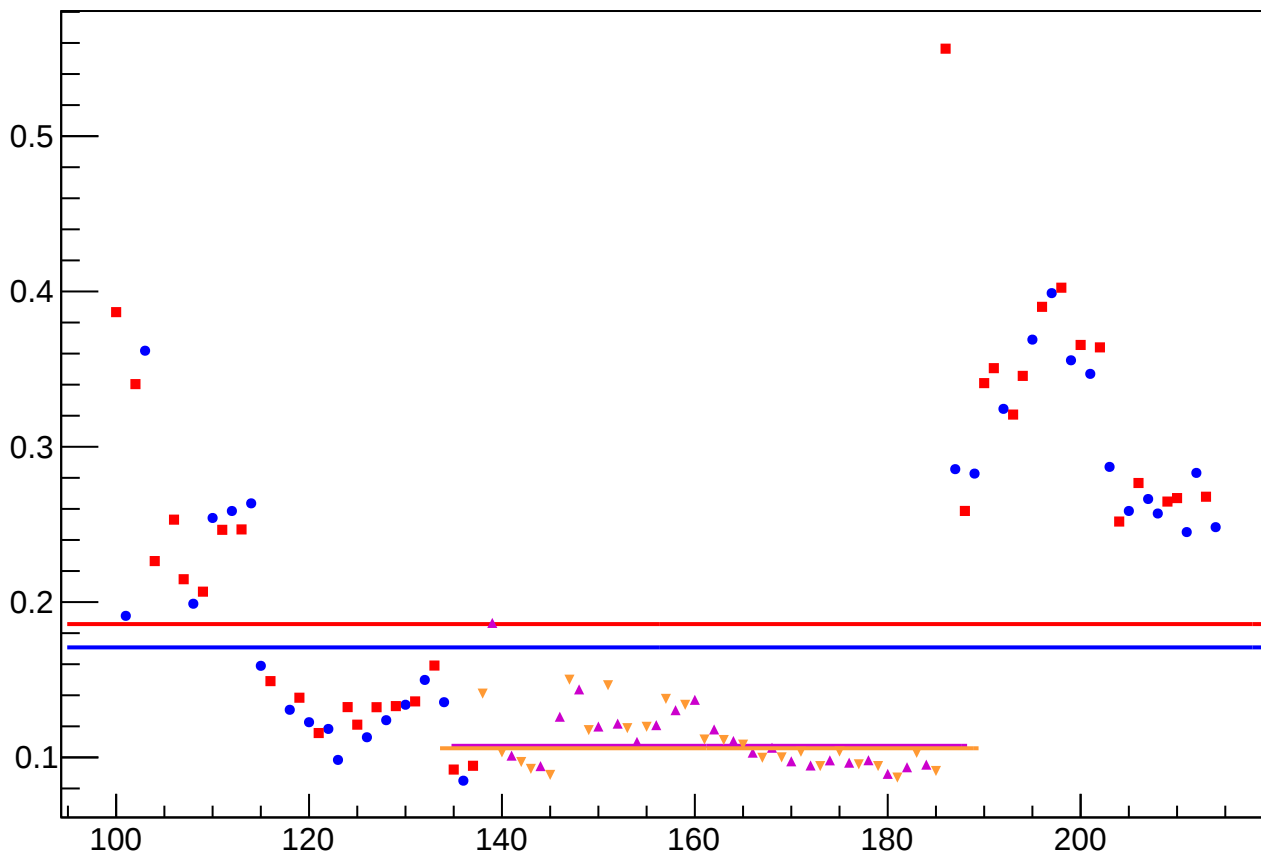
Out: 25.545+/-0.000

χ^2/NDF : 10258526175.7/58

All: 25.592+/-0.000

χ^2/NDF : 19223893893.7

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.171+/-0.000 χ^2/NDF : 6302893.1/30

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.186+/-0.000 χ^2/NDF : 6039188.7/33

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

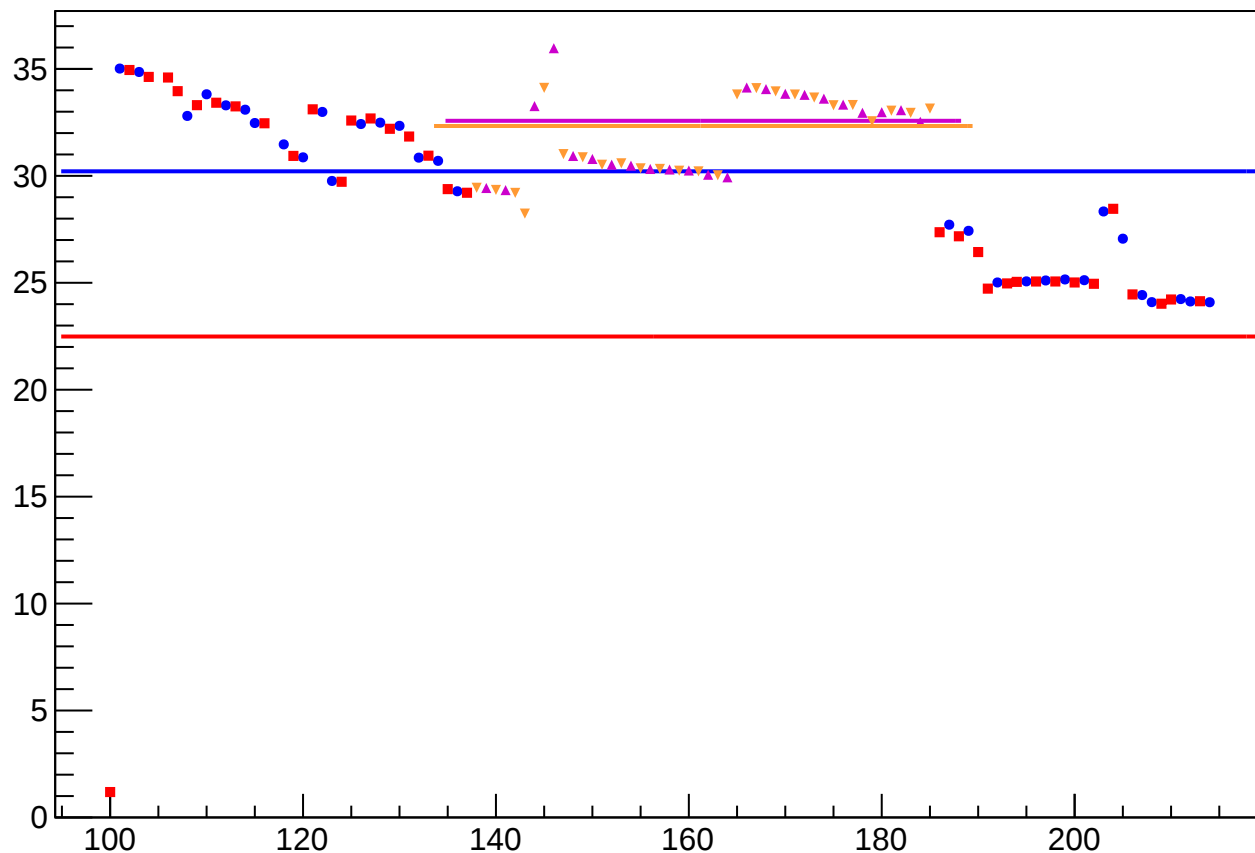
Right: 0.178+/-0.000 χ^2/NDF : 12432073.5/64

In: 0.123+/-0.000 χ^2/NDF : 9636512.9/53

Out: 0.123+/-0.000 χ^2/NDF : 10589671.7/58

All: 0.123+/-0.000 χ^2/NDF : 20226309.8/112

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.212+/-0.000 χ^2/NDF : 10092180715.1/30

Left Out: 32.331+/-0.000 χ^2/NDF : 12850475096.2/24

Right Out: 22.488+/-0.000 χ^2/NDF : 232274503370.3/33

Left In: 32.574+/-0.000 χ^2/NDF : 11797772603.7/22

Left: 32.450+/-0.000 χ^2/NDF : 24766521375.8/47

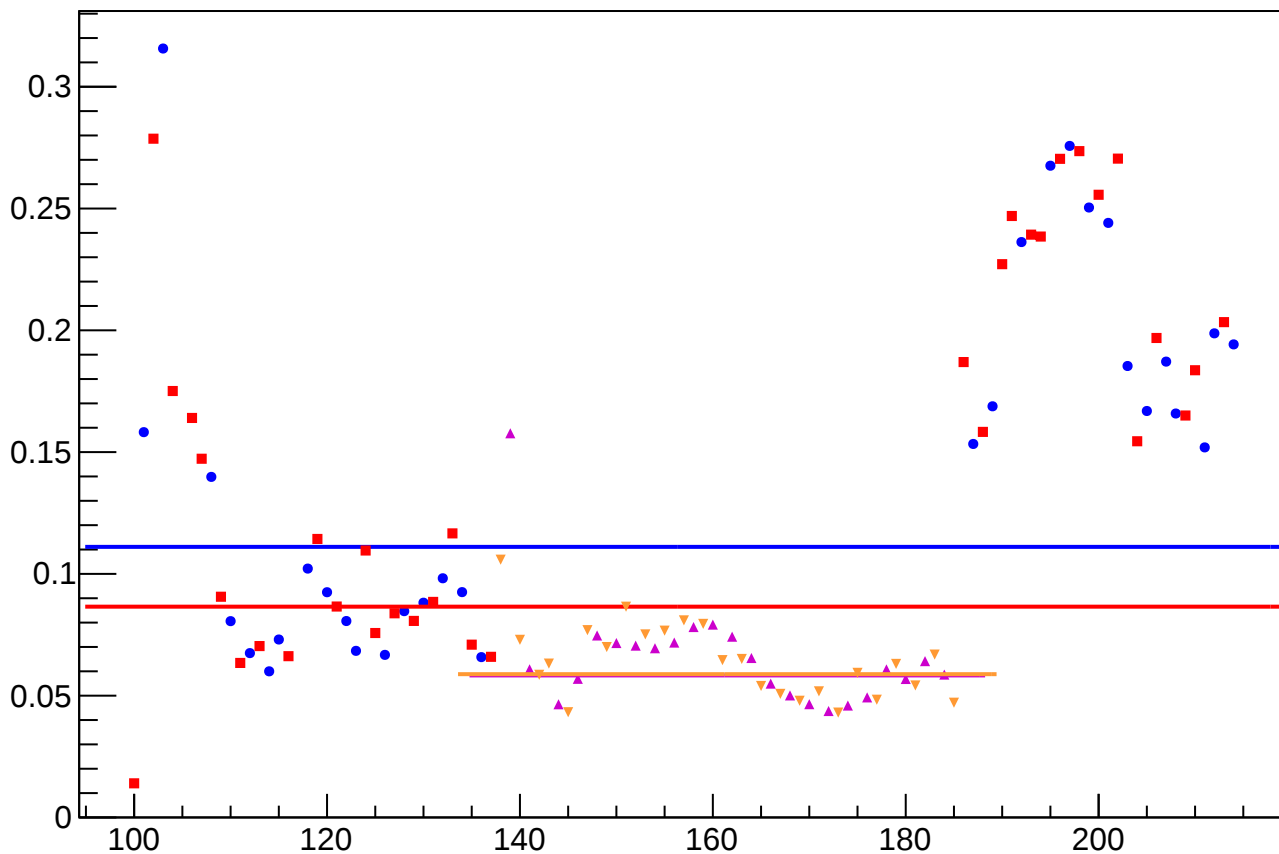
Right: 25.782+/-0.000 χ^2/NDF : 275343059124.0/64

In: 32.108+/-0.000 χ^2/NDF : 26204404409.5/53

Out: 29.965+/-0.000 χ^2/NDF : 340513850274.5/58

All: 30.984+/-0.000 χ^2/NDF : 378484526333.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.111+/-0.000 χ^2/NDF : 6483974.1/30

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

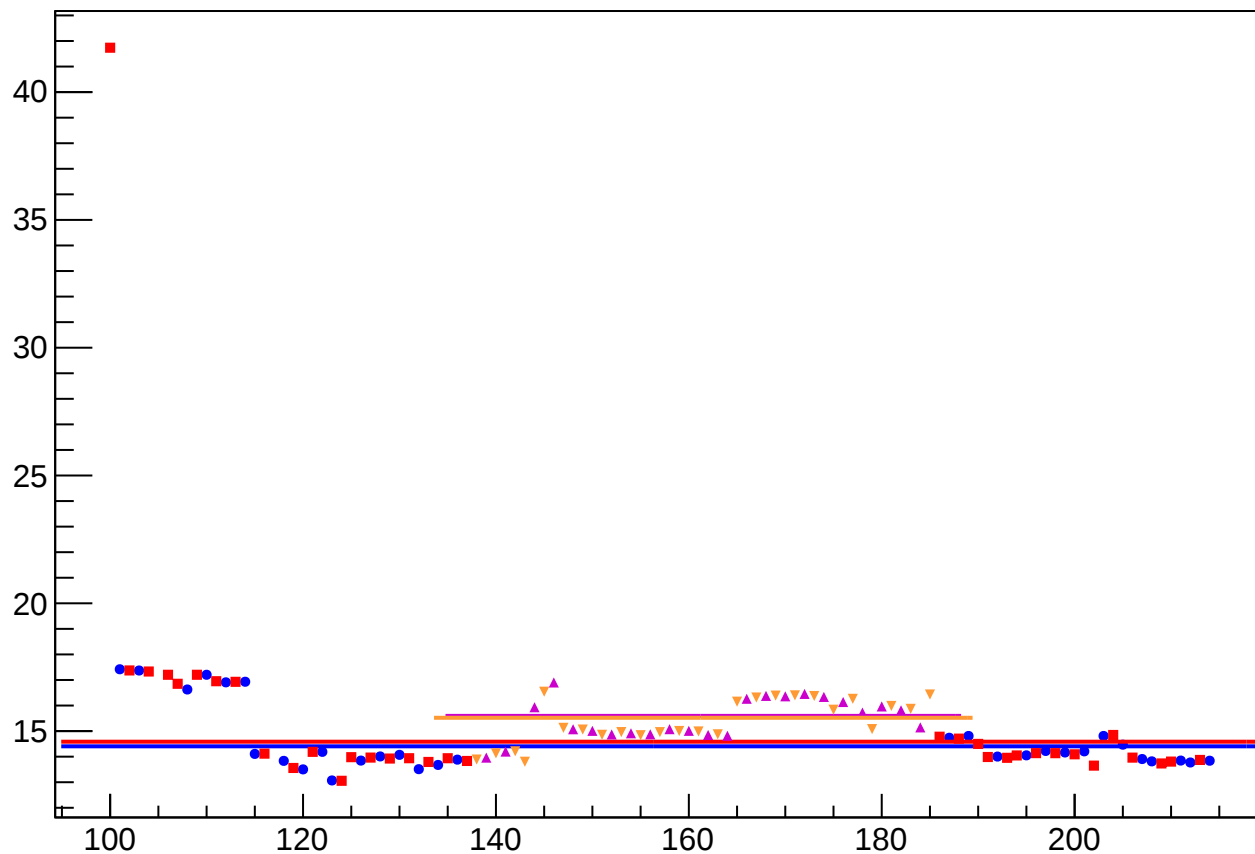
Right: 0.097+/-0.000 χ^2/NDF : 18984744.4/64

In: 0.069+/-0.000 χ^2/NDF :12318755.1/53

Out: 0.065+/-0.000 χ^2/NDF :14749670.4/58

All: 0.067+/-0.000 χ^2/NDF : 27122211.6/112

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.405+/-0.000 χ^2/NDF : 1566886180.4/30

Left Out: 15.521+/-0.000 χ^2/NDF : 2591377740.5/24

Right Out: 14.585+/-0.000 χ^2/NDF : 2038592431.9/33

Left In: 15.595+/-0.000 χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000 χ^2/NDF : 4510008259.4/47

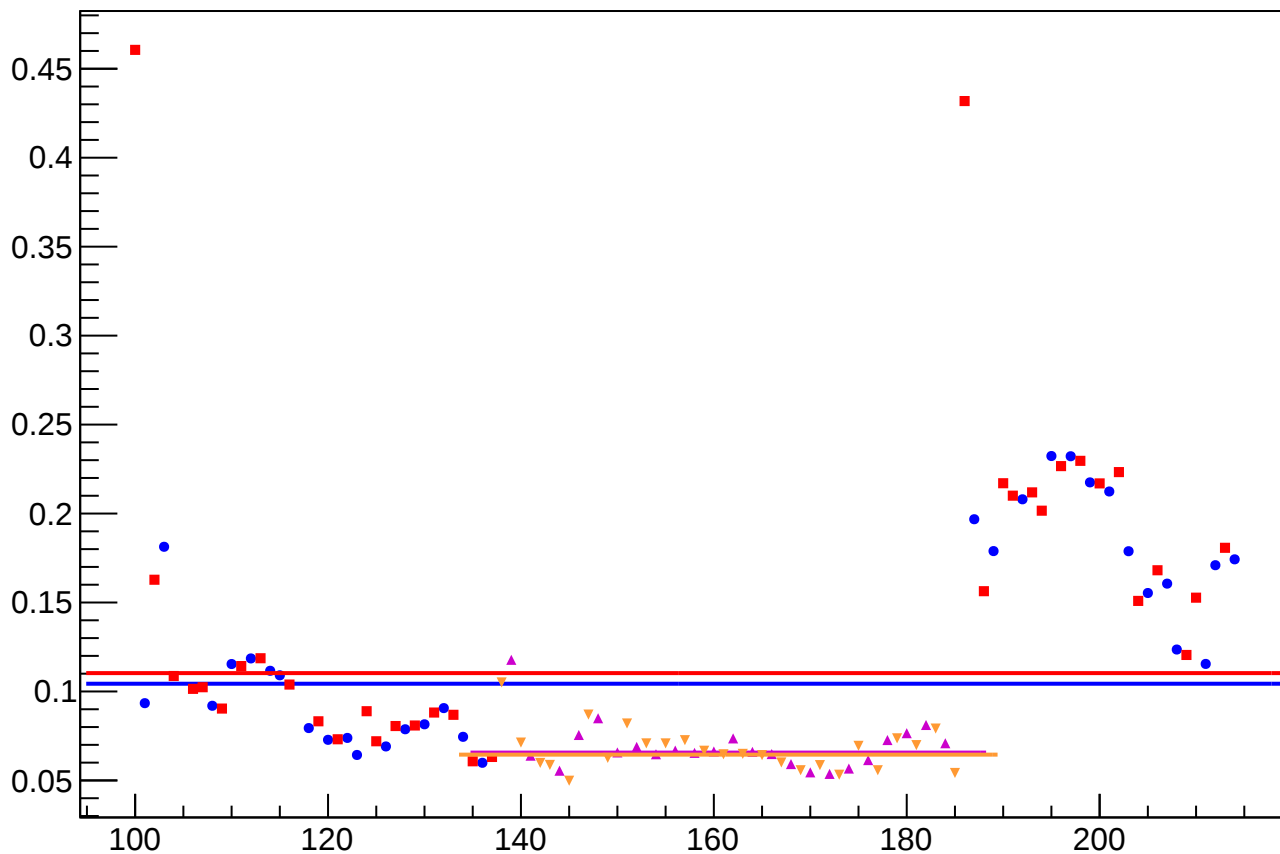
Right: 14.492+/-0.000 χ^2/NDF : 3624155317.9/64

In: 15.290+/-0.000 χ^2/NDF : 4726365306.0/53

Out: 15.308+/-0.000 χ^2/NDF : 5376034367.1/58

All: 15.299+/-0.000 χ^2/NDF : 10103220781.6

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.104 $\pm$ 0.000 χ^2 /NDF: 5347926.2/30

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.110 $\pm$ 0.000 χ^2 /NDF: 5332241.4/33

Left In: 0.066 $\pm$ 0.000 χ^2 /NDF: 714703.1/22

Left: 0.065 $\pm$ 0.000 χ^2 /NDF: 1481007.6/47

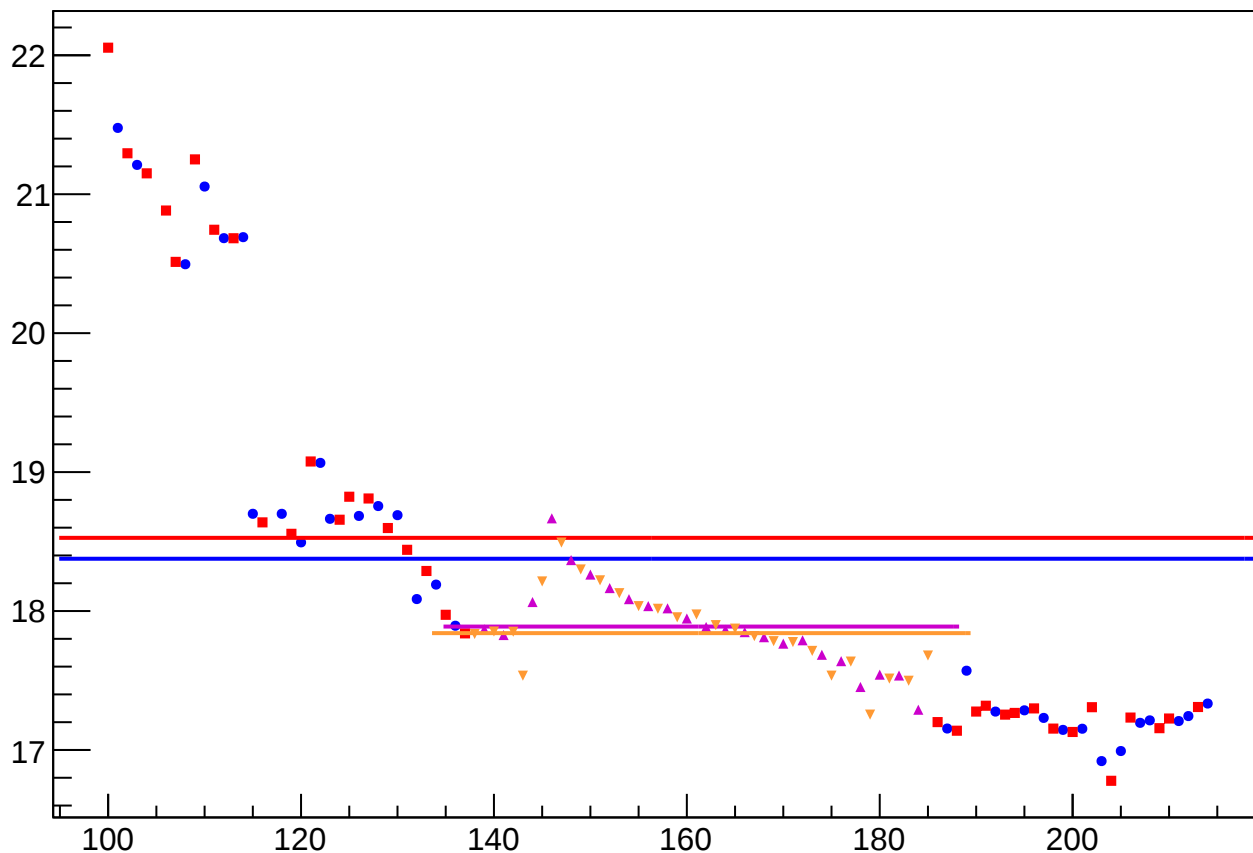
Right: 0.107 $\pm$ 0.000 χ^2 /NDF: 10720934.4/64

In: 0.076 $\pm$ 0.000 χ^2 /NDF: 8705740.6/53

Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 9673219.7/58

All: 0.075 $\pm$ 0.000 χ^2 /NDF: 18381078.3/112

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.376 $\pm$ 0.000 χ^2/NDF : 32271749076.3/30

Left Out: 17.841 $\pm$ 0.000 χ^2/NDF : 1283287989.7/24

Right Out: 18.527 $\pm$ 0.000 χ^2/NDF : 34195733248.9/33

Left In: 17.888 $\pm$ 0.000 χ^2/NDF : 1203002311.3/22

Left: 17.864 $\pm$ 0.000 χ^2/NDF : 2506375288.6/47

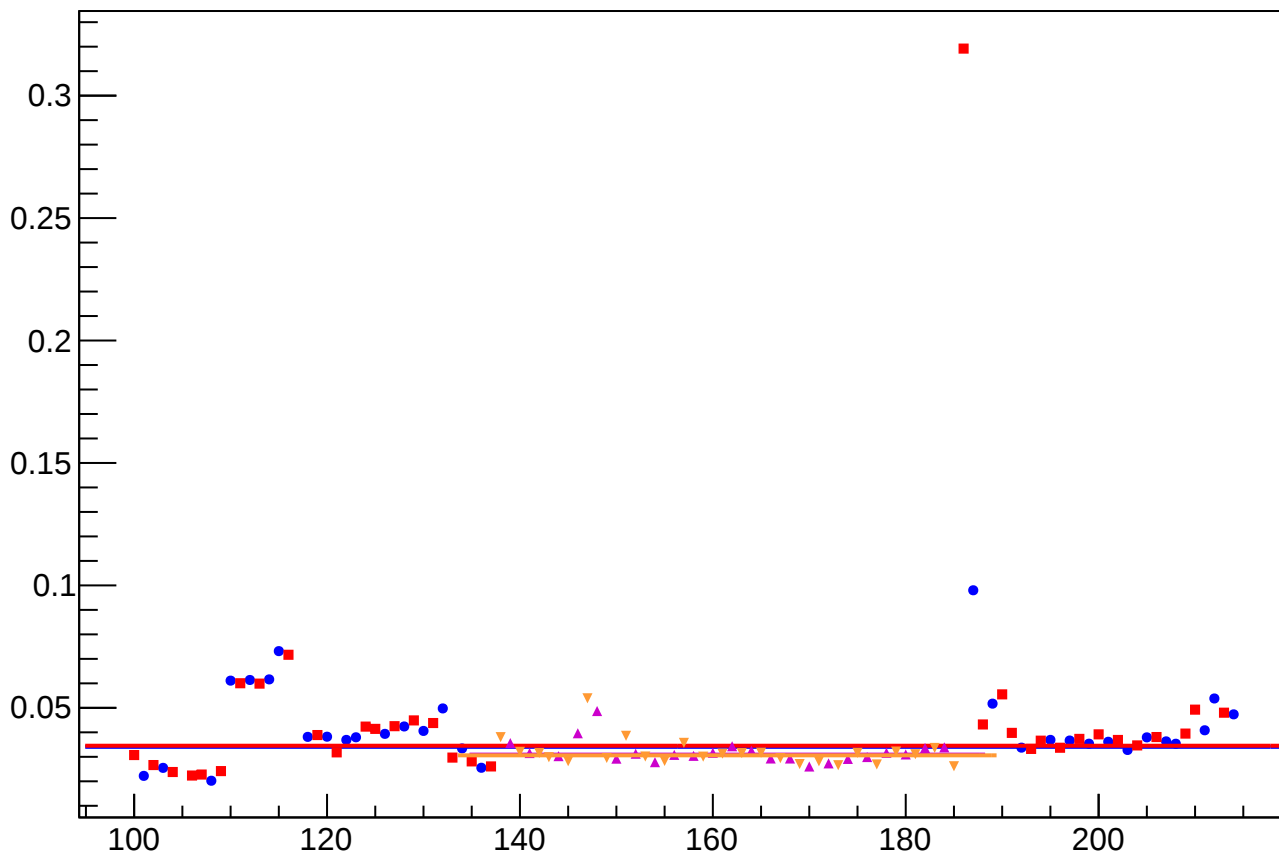
Right: 18.451 $\pm$ 0.000 χ^2/NDF : 66610861059.2/64

In: 18.095 $\pm$ 0.000 χ^2/NDF : 35225282582.6/53

Out: 18.118 $\pm$ 0.000 χ^2/NDF : 39018475107.6/58

All: 18.107 $\pm$ 0.000 χ^2/NDF : 74251947493.8

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.000 χ^2 /NDF: 2112299.2/30

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

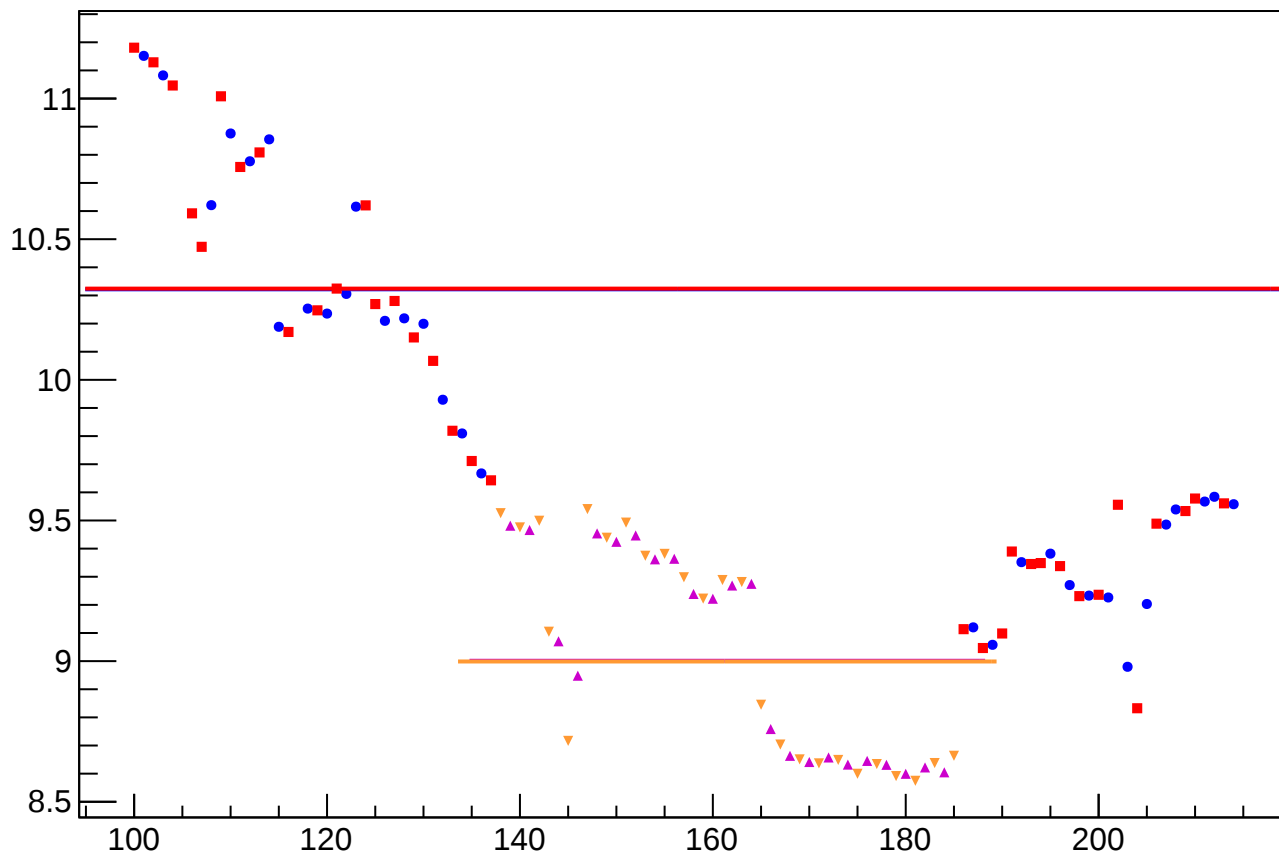
Right: 0.034 $\pm$ 0.000 χ^2 /NDF: 4546858.2/64

In: 0.032 $\pm$ 0.000 χ^2 /NDF:2713956.9/53

Out: 0.032 $\pm$ 0.000 χ^2 /NDF:3253986.8/58

All: 0.032 $\pm$ 0.000 χ^2 /NDF: 5968032.0/112

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.322+/-0.000 χ^2/NDF : 15908079613.5/30

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

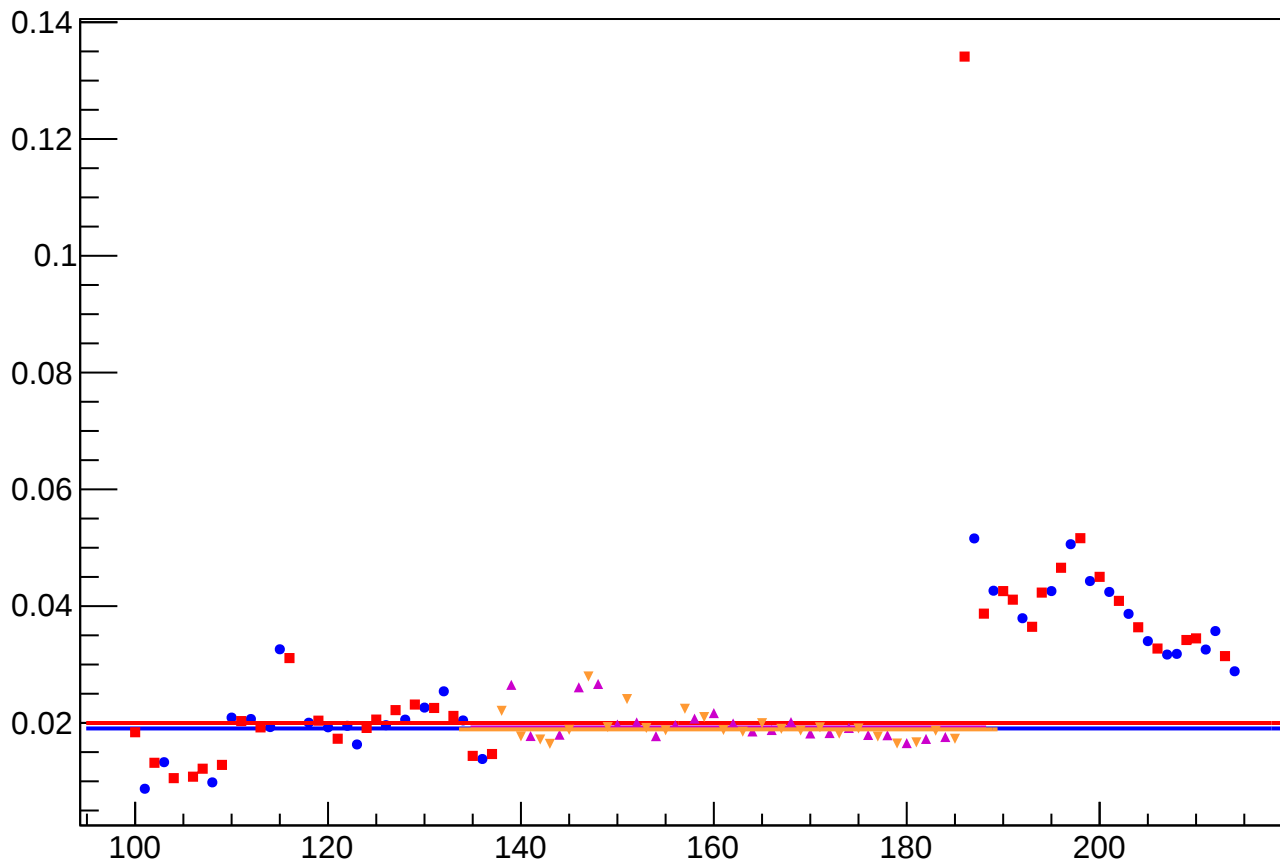
Right: 10.323+/-0.000 χ^2/NDF : 29904047819.4/64

In: 9.578+/-0.000 χ^2/NDF : 53828297117.0/53

Out: 9.533+/-0.000 χ^2/NDF : 53673036600.1/58

All: 9.555+/-0.000 χ^2/NDF : 107578925773.8

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 7344062.5/30

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

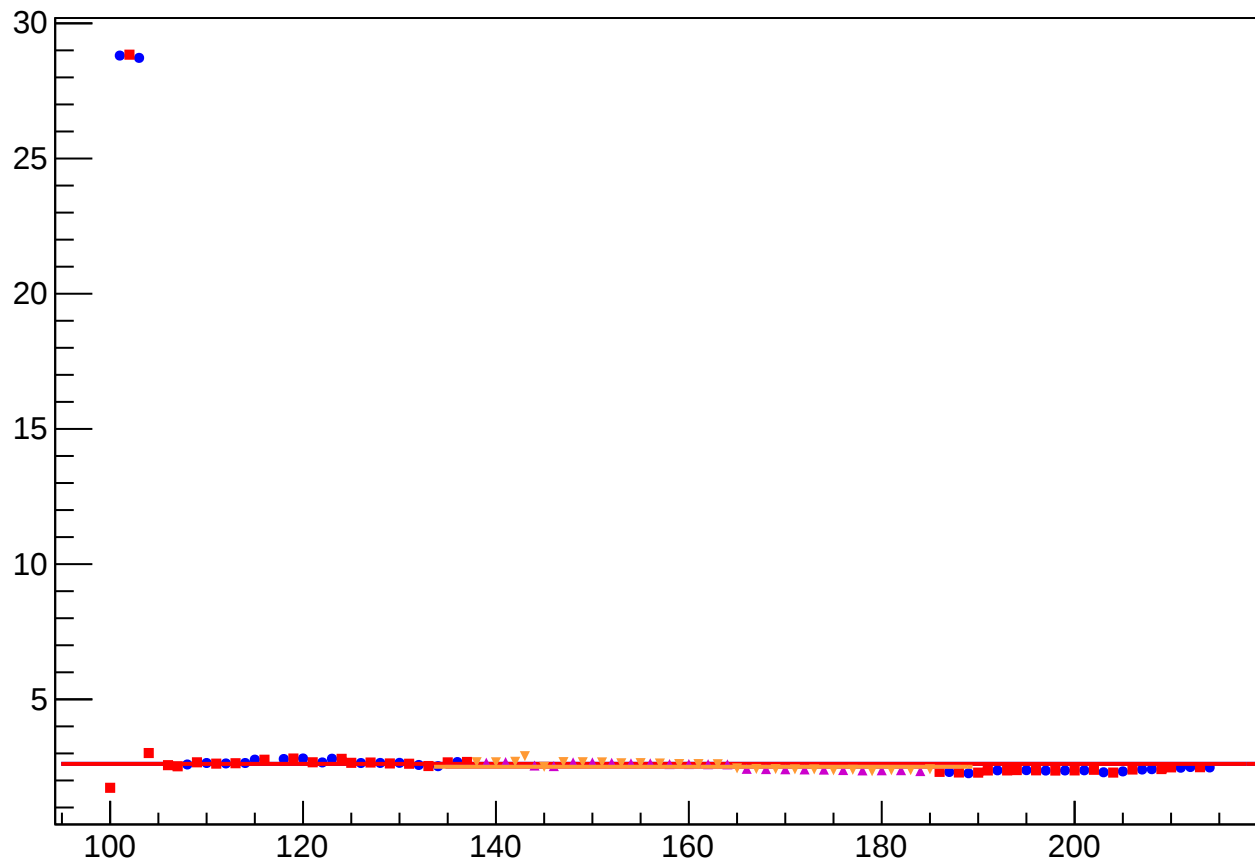
Right: 0.020+/-0.000 χ^2/NDF : 14574504.8/64

In: 0.019+/-0.000 χ^2/NDF :7827020.4/53

Out: 0.019+/-0.000 χ^2/NDF :7675112.5/58

All: 0.019+/-0.000 χ^2/NDF : 15504841.4/112

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.615 $\pm$ 0.000 χ^2 /NDF: 182102894194.5/30

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

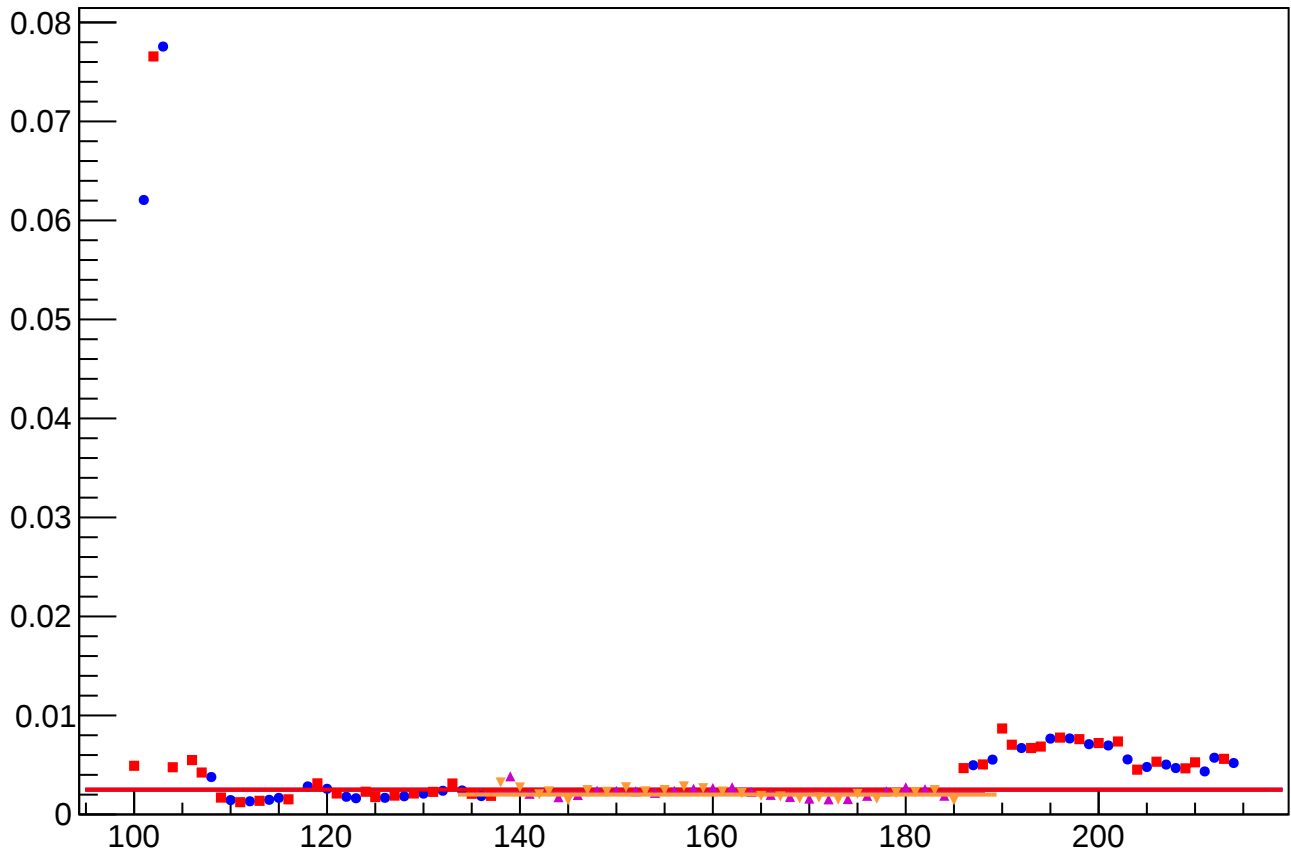
Right: 2.614 $\pm$ 0.000 χ^2 /NDF: 272801657765.5/64

In: 2.542 $\pm$ 0.000 χ^2 /NDF: 238193632381.6/53

Out: 2.540 $\pm$ 0.000 χ^2 /NDF: 168104740790.7/58

All: 2.541 $\pm$ 0.000 χ^2 /NDF: 406303398949.0

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 10244221.6/30

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1469103.5/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 10307160.1/33

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:1303230.9/22

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 2781893.0/47

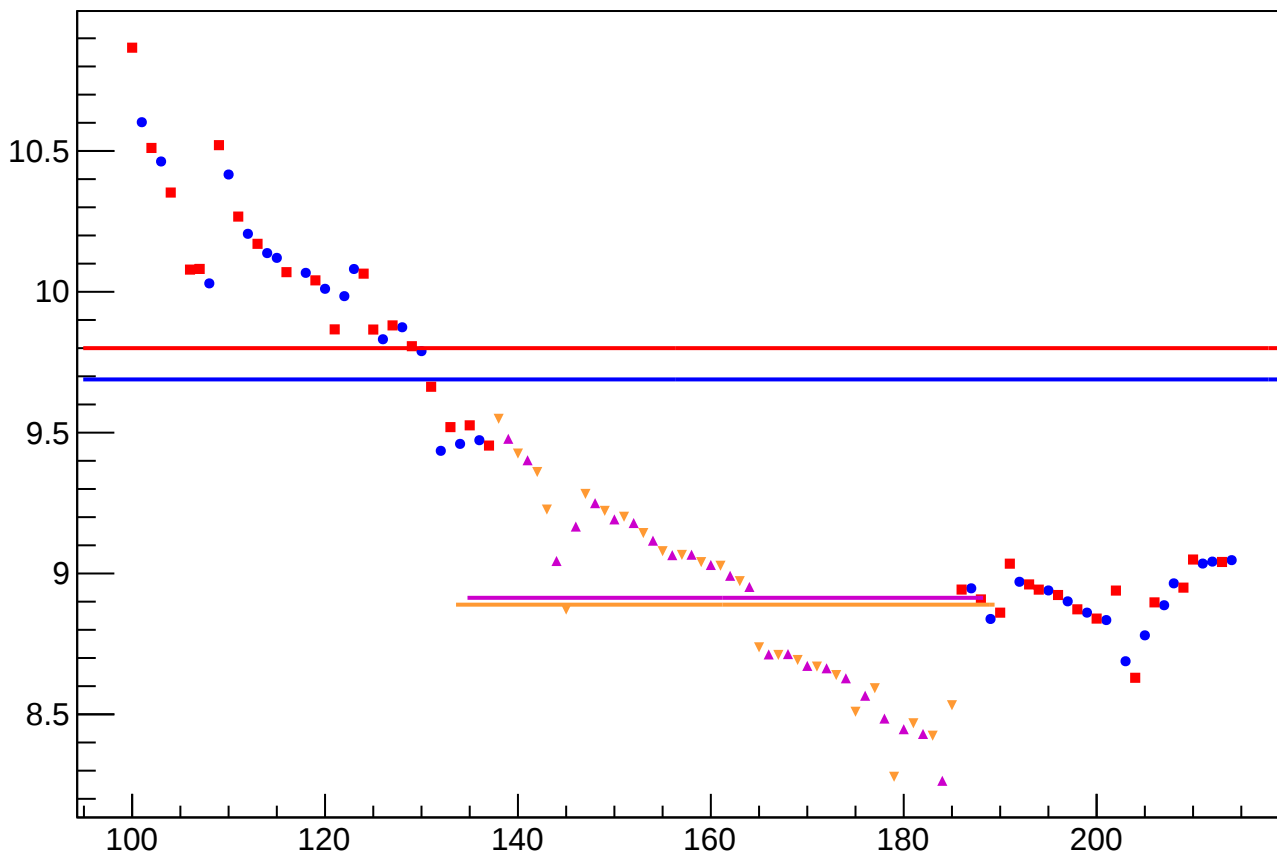
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 20551394.9/64

In: 0.002 $\pm$ 0.000 χ^2 /NDF:11980757.0/53

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:12353585.9/58

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 24343407.8/112

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.689 $\pm$ 0.000 χ^2/NDF : 77088022139.0/30

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

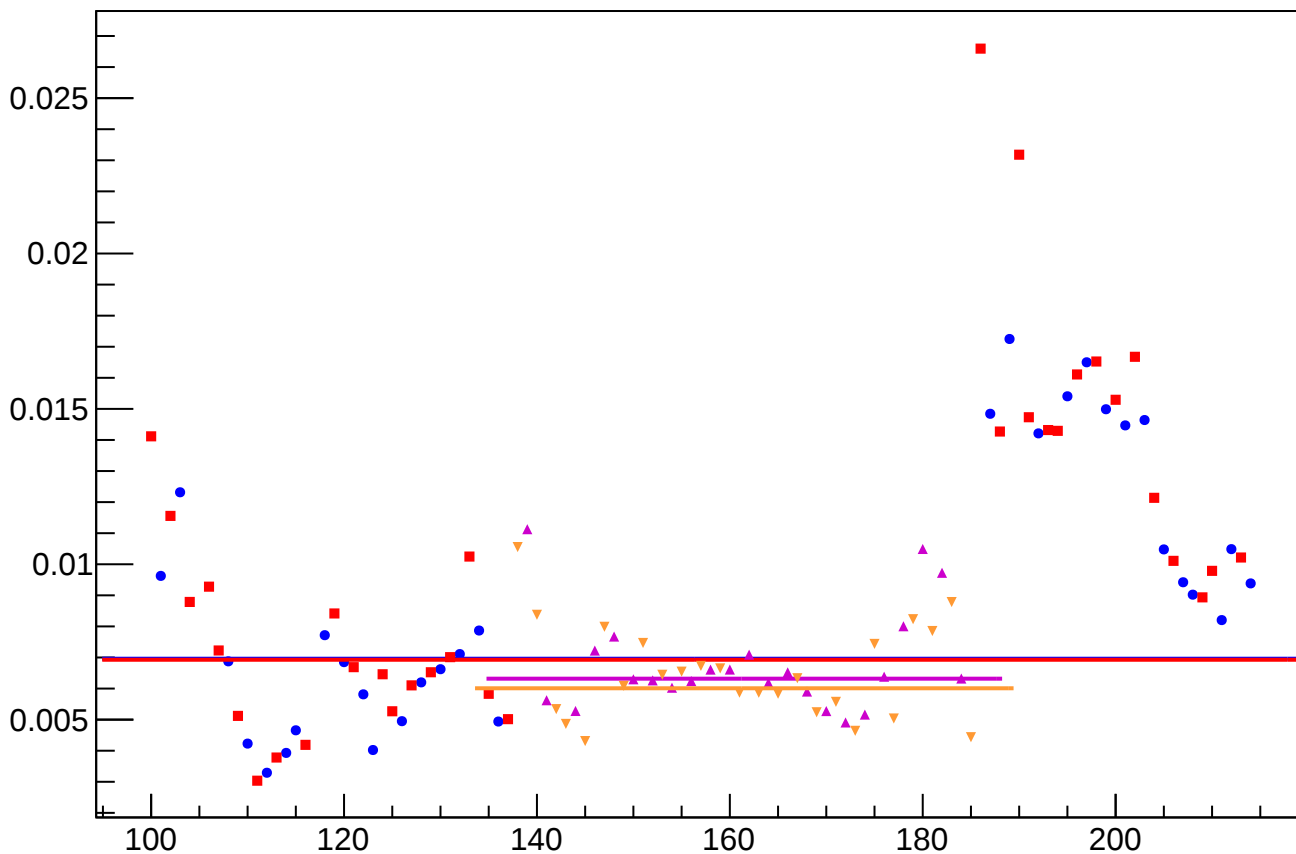
Right: 9.744 $\pm$ 0.000 χ^2/NDF : 156070275764.6/64

In: 9.240 $\pm$ 0.000 χ^2/NDF : 193635160642.5/53

Out: 9.240 $\pm$ 0.000 χ^2/NDF : 240689724672.3/58

All: 9.240 $\pm$ 0.000 χ^2/NDF : 434324889689.4

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 6044735.3/30

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1312525.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 7550874.3/33

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1087051.3/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2435218.5/47

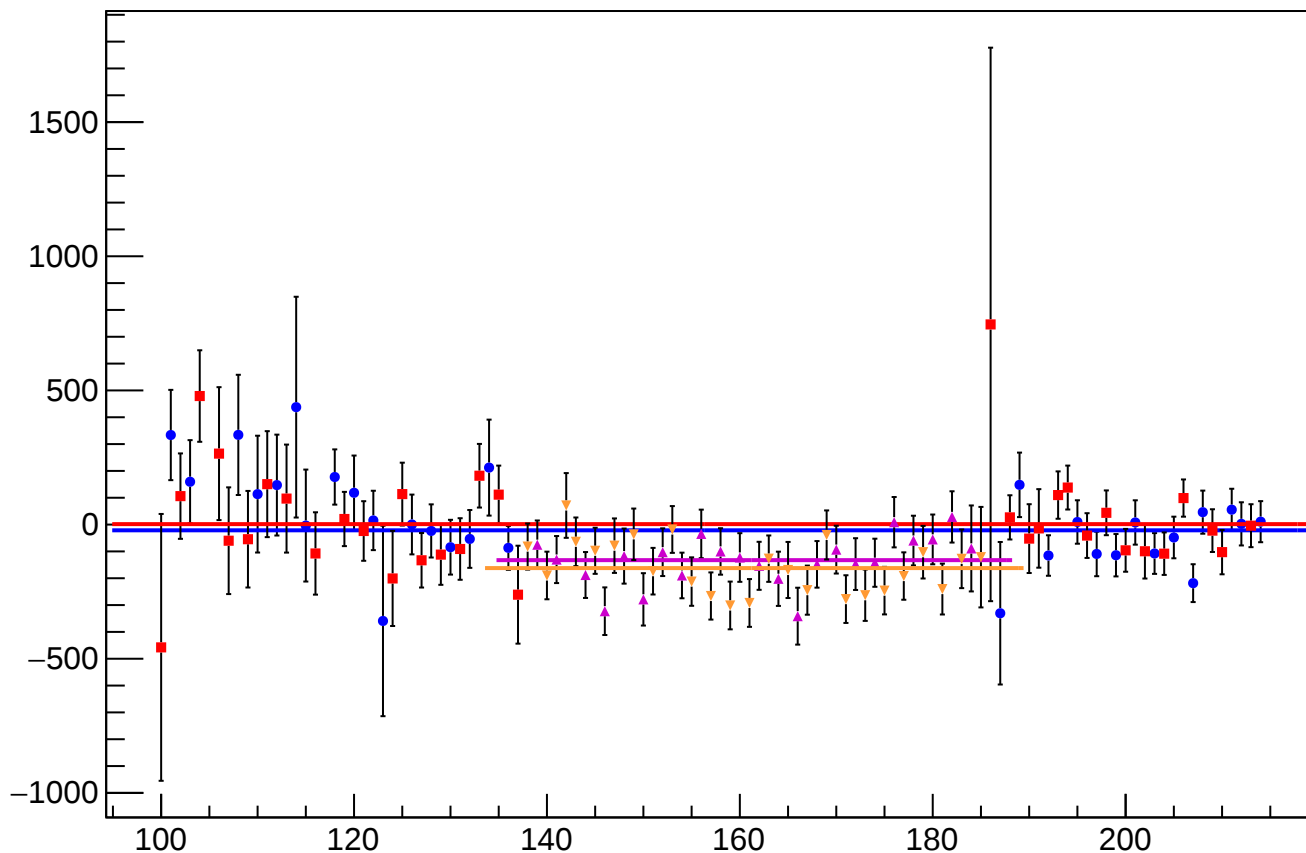
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 13595884.9/64

In: 0.007 $\pm$ 0.000 χ^2 /NDF:7252612.8/53

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:9124749.0/58

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 16409273.4/112

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -21.374 ± 18.243 χ^2/NDF : 38.2/30

Left Out: -162.161 ± 18.745 χ^2/NDF : 25.7/24

Right Out: 1.668 ± 18.673 χ^2/NDF : 36.6/33

Left In: -132.557 ± 19.403 χ^2/NDF : 20.7/22

Left: -147.870 ± 13.481 χ^2/NDF : 47.6/47

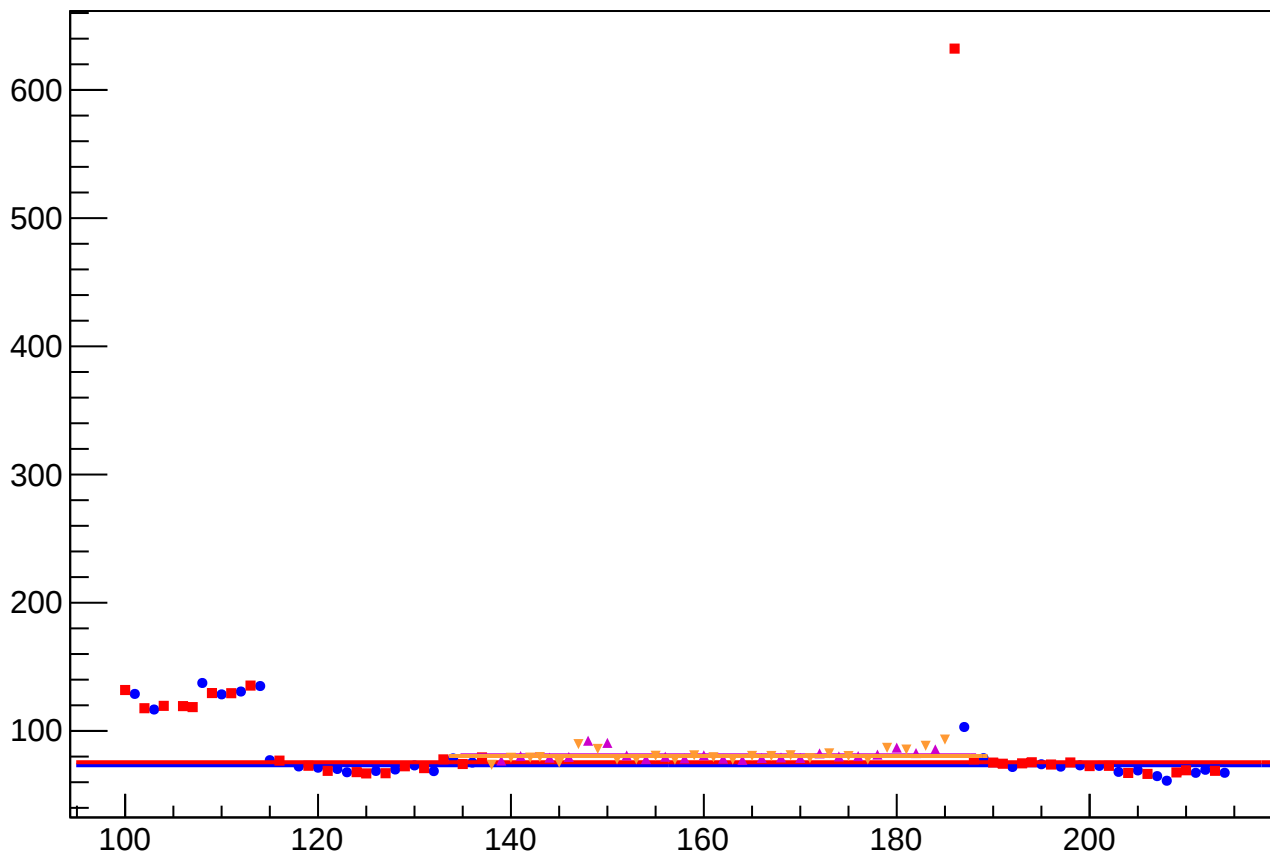
Right: -10.121 ± 13.049 χ^2/NDF : 75.6/64

In: -73.542 ± 13.291 χ^2/NDF : 76.4/53

Out: -79.934 ± 13.229 χ^2/NDF : 100.6/58

All: -76.753 ± 9.376 χ^2/NDF : 177.1/112

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 73.237 $\pm$ 0.013 χ^2 /NDF: 1063001.6/30

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

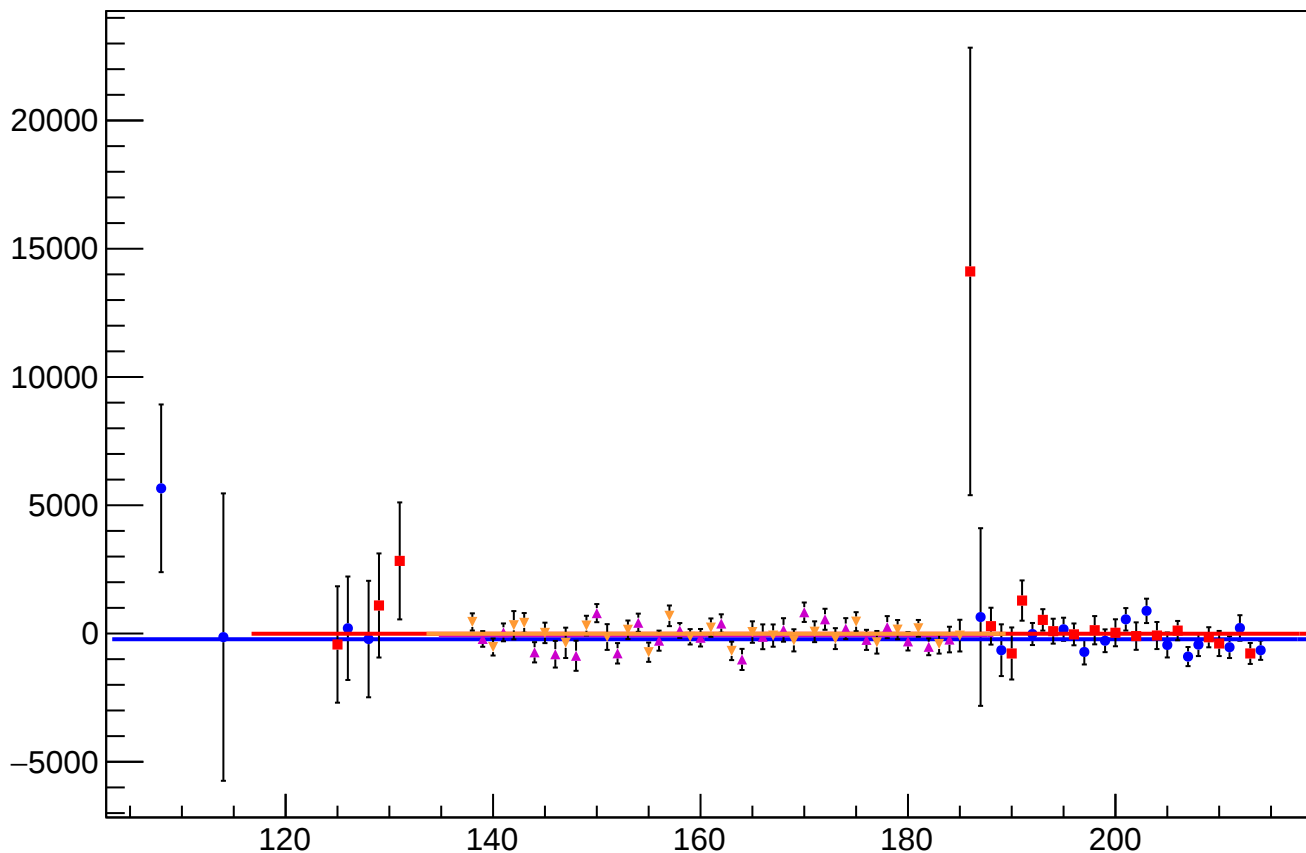
Right: 74.386 $\pm$ 0.009 χ^2 /NDF: 2775239.2/64

In: 76.886 $\pm$ 0.009 χ^2 /NDF:1305762.5/53

Out: 78.015 $\pm$ 0.009 χ^2 /NDF:1853654.5/58

All: 77.453 $\pm$ 0.007 χ^2 /NDF: 3166664.8/112

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -222.930 ± 124.949 χ^2/NDF : 20.5/17

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

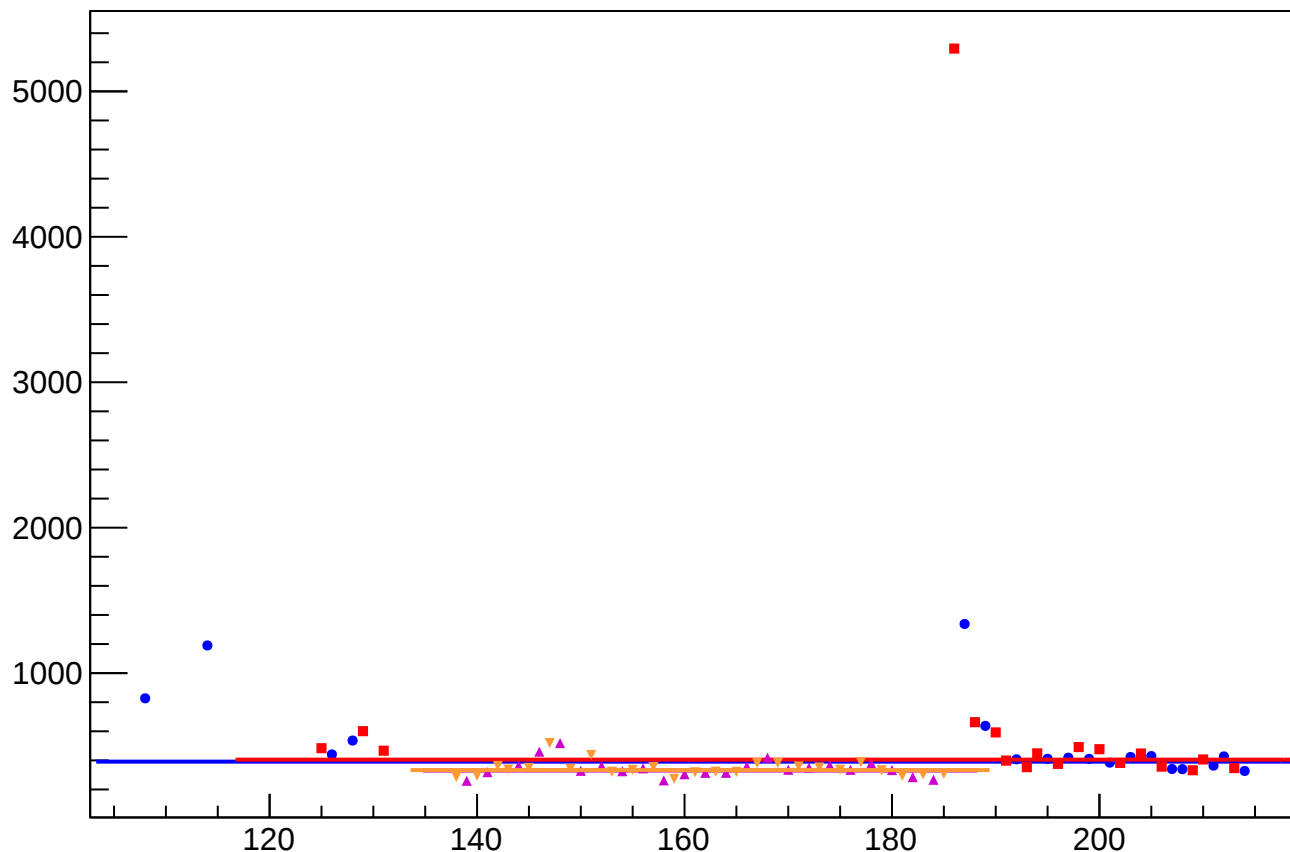
Right: -120.674 ± 90.373 χ^2/NDF : 36.0/35

In: -110.666 ± 67.402 χ^2/NDF : 59.0/40

Out: -9.960 ± 67.250 χ^2/NDF : 36.7/42

All: -60.199 ± 47.606 χ^2/NDF : 96.8/83

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 391.398+/-0.088 χ^2/NDF : 532639.9/17

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

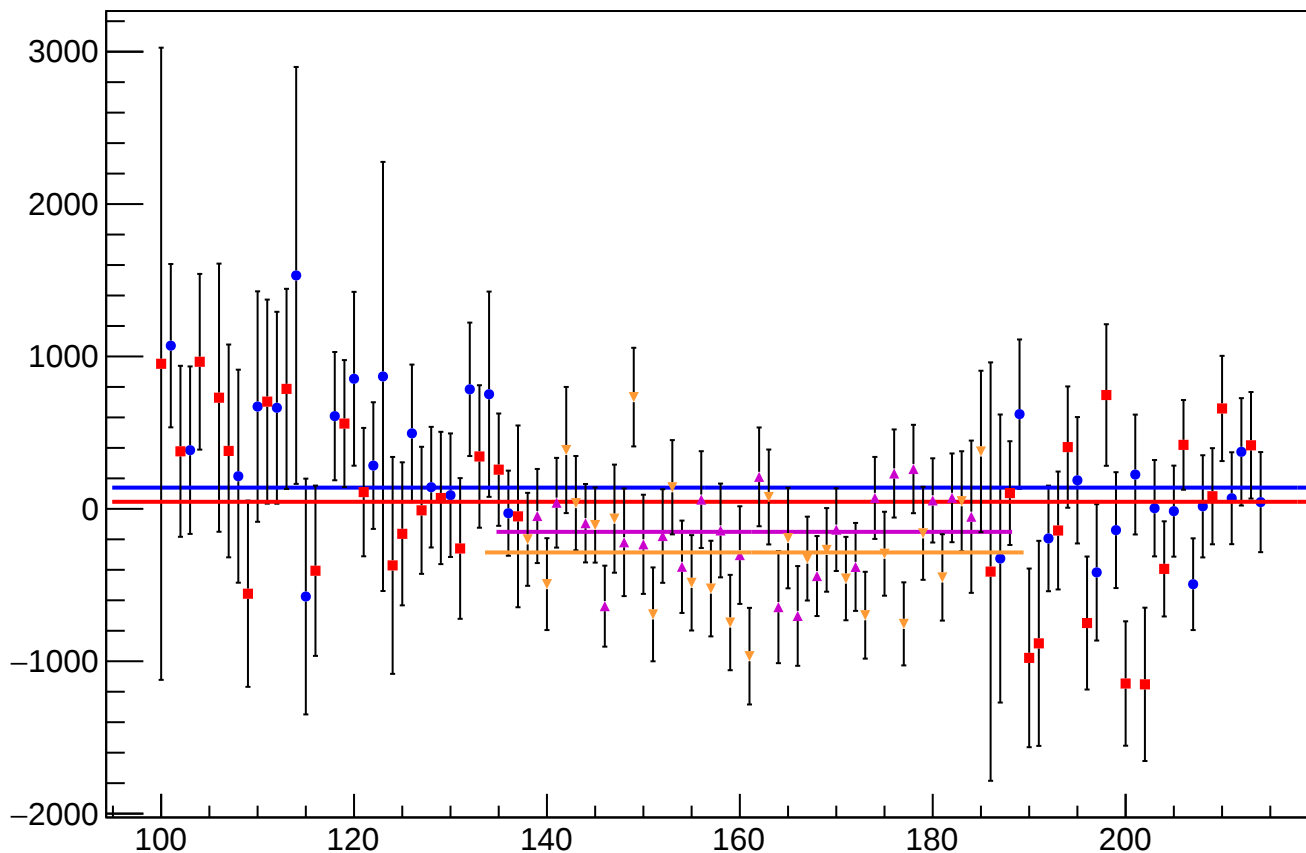
Right: 397.909+/-0.064 χ^2/NDF : 1820458.2/35

In: 347.856+/-0.048 χ^2/NDF : 1671172.0/40

Out: 352.197+/-0.048 χ^2/NDF : 2311803.0/42

All: 350.031+/-0.034 χ^2/NDF : 3987131.9/83

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 139.372 $\pm$ 75.534 χ^2 /NDF: 23.4/30

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

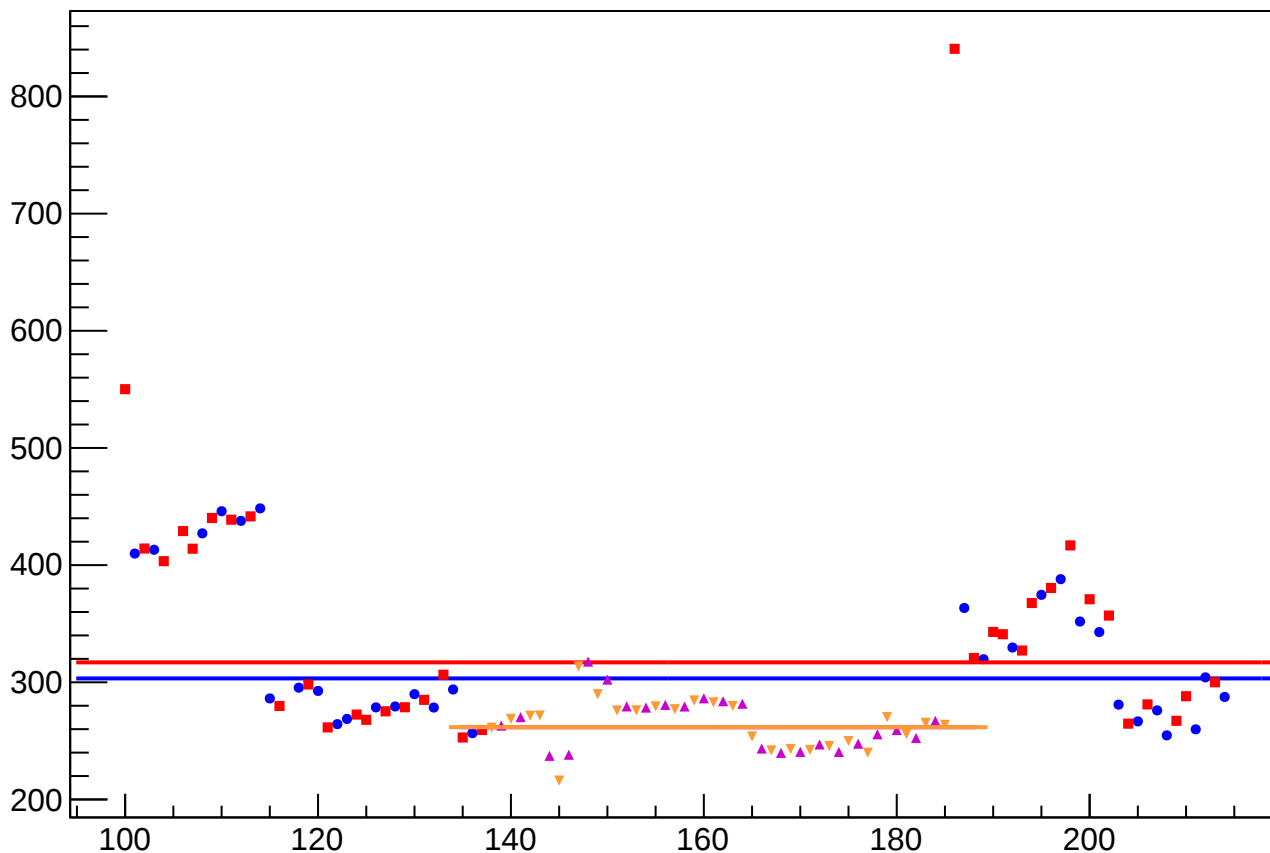
Right: 94.403 $\pm$ 54.278 χ^2 /NDF: 69.0/64

In: -32.232 $\pm$ 48.298 χ^2 /NDF:50.8/53

Out: -159.735 $\pm$ 48.109 χ^2 /NDF:92.7/58

All: -96.234 $\pm$ 34.085 χ^2 /NDF: 147.1/112

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 303.303+/-0.053 χ^2/NDF : 856784.2/30

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

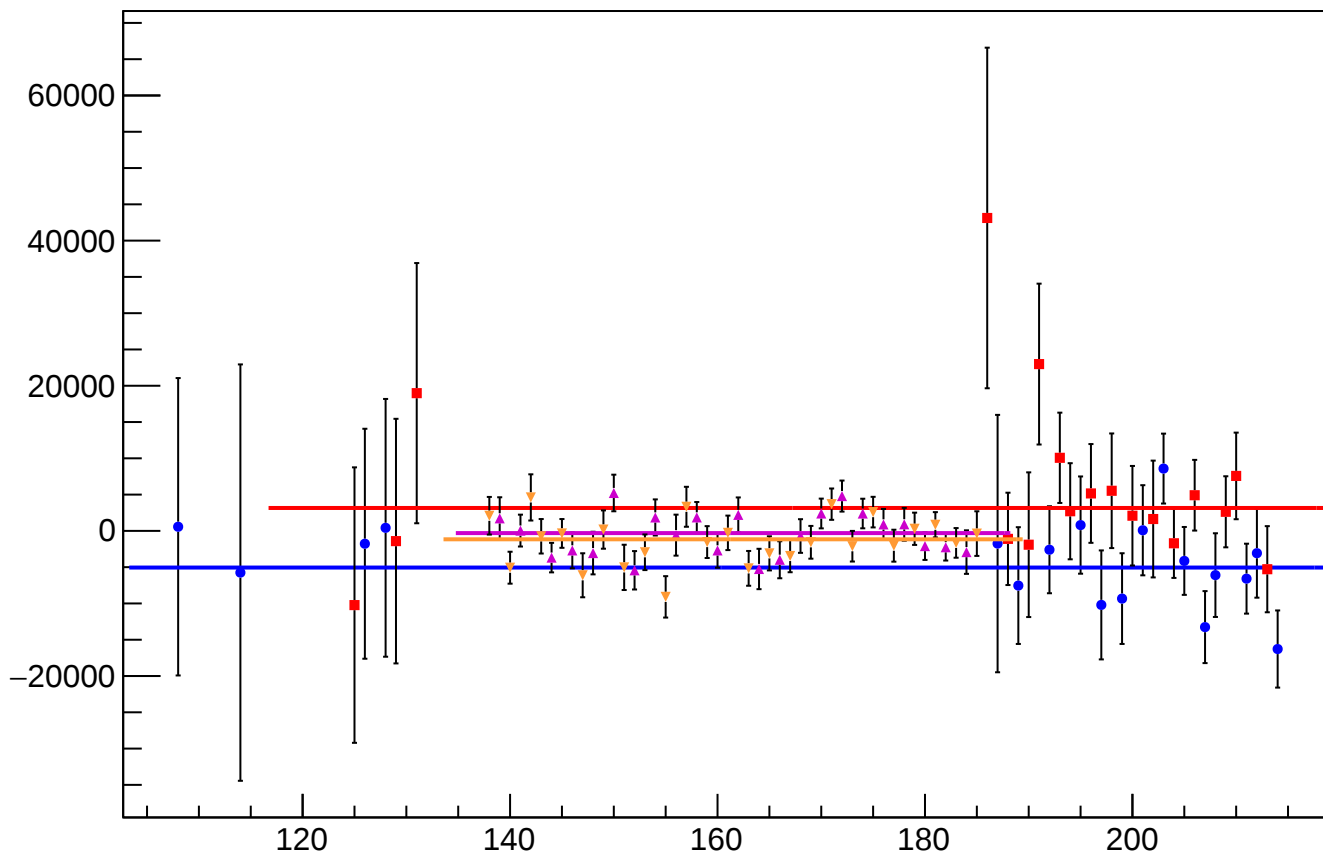
Right: 309.929+/-0.038 χ^2/NDF : 2180501.1/64

In: 278.672+/-0.034 χ^2/NDF : 1444779.0/53

Out: 282.725+/-0.034 χ^2/NDF : 2147283.4/58

All: 280.707+/-0.024 χ^2/NDF : 3599132.4/112

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -5052.426 $\pm$ 1555.488 χ^2 /NDF: 18.4/17

Left Out: -1161.443 $\pm$ 469.036 χ^2 /NDF:38.8/24

Right Out: 3157.362 $\pm$ 1663.635 χ^2 /NDF: 13.4/17

Left In: -304.366 $\pm$ 483.778 χ^2 /NDF:35.4/22

Left: -746.162 $\pm$ 336.750 χ^2 /NDF: 75.7/47

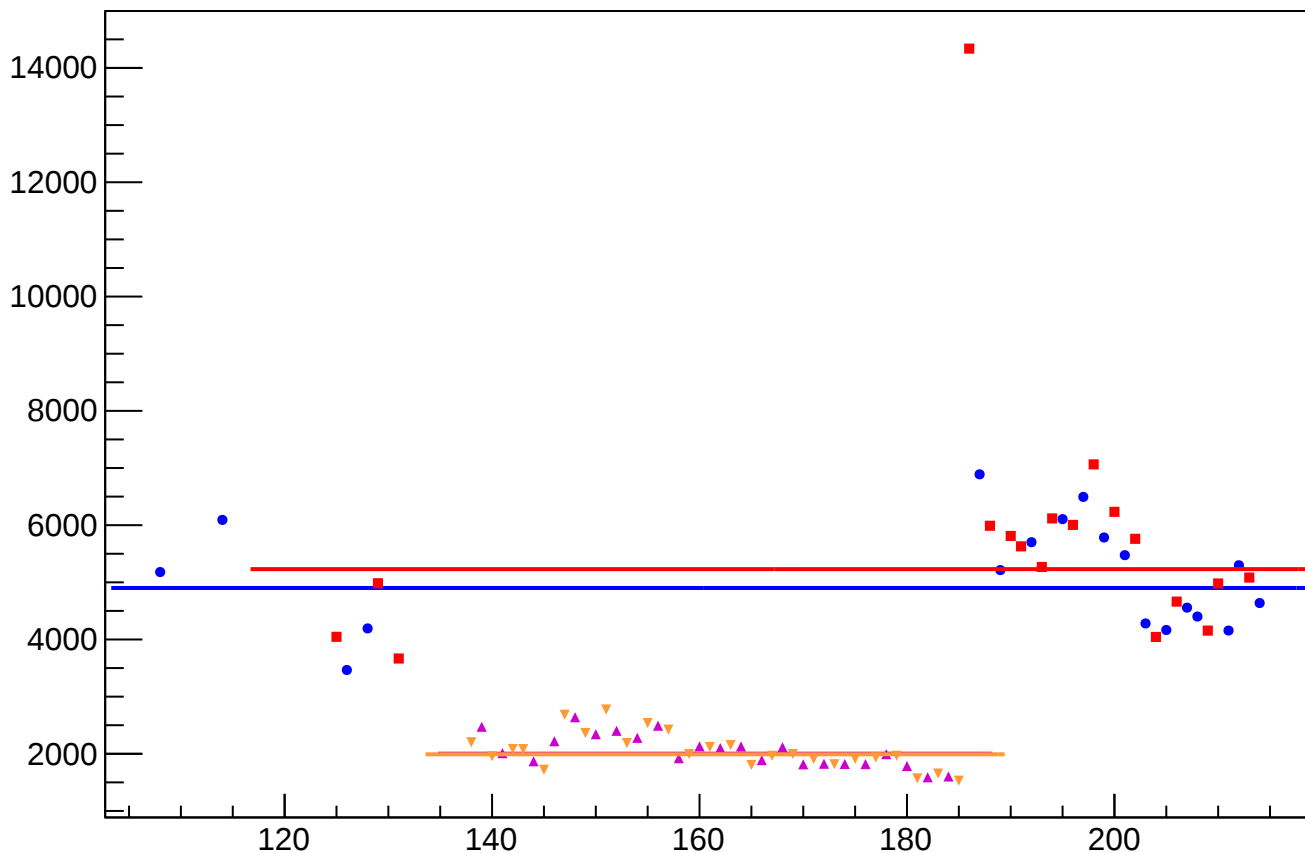
Right: -1223.030 $\pm$ 1136.206 χ^2 /NDF: 44.8/35

In: -723.137 $\pm$ 461.952 χ^2 /NDF:62.2/40

Out: -843.431 $\pm$ 451.438 χ^2 /NDF:58.4/42

All: -784.668 $\pm$ 322.868 χ^2 /NDF: 120.7/83

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4901.265+/-1.100 χ^2/NDF : 467328.0/17

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

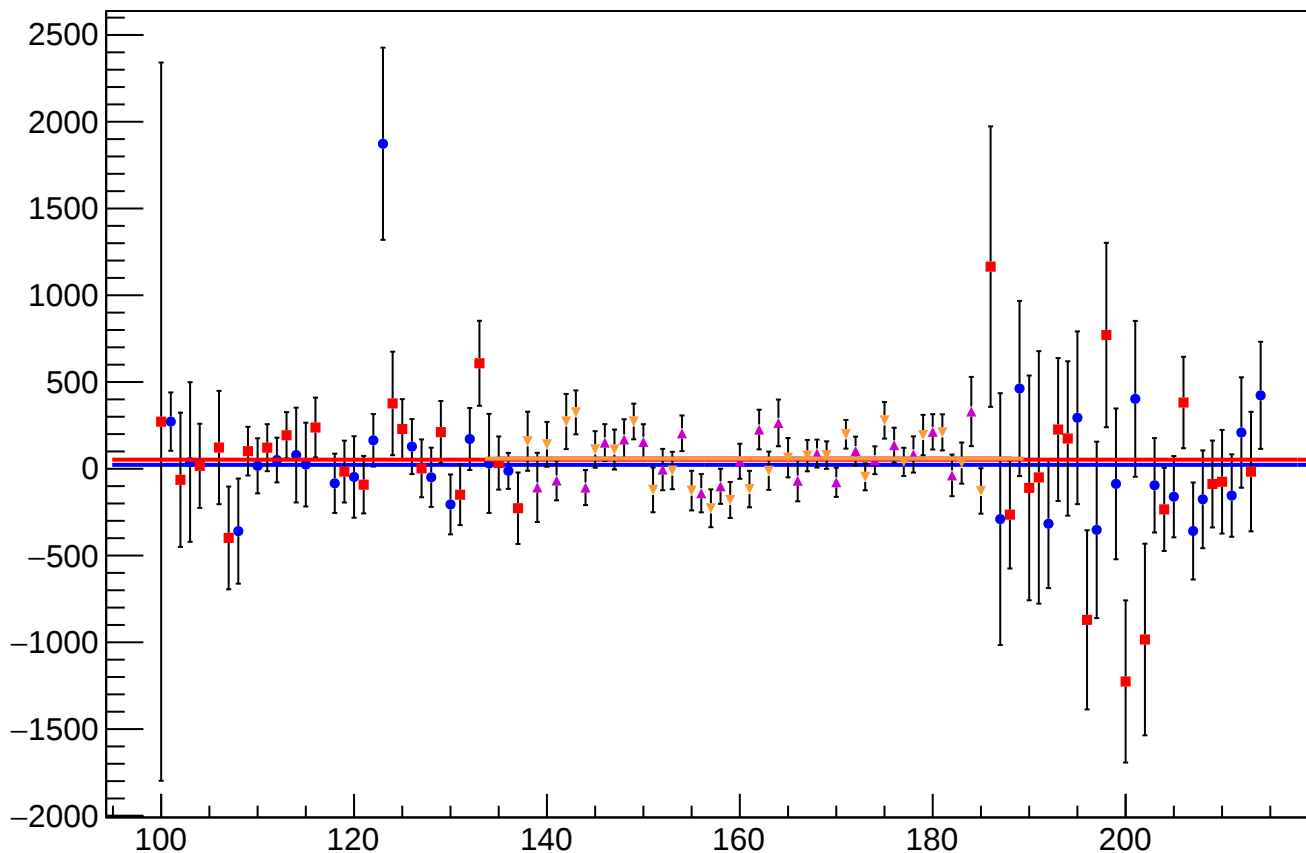
Right: 5055.080+/-0.803 χ^2/NDF : 1344688.6/35

In: 2257.850+/-0.327 χ^2/NDF : 7387986.3/40

Out: 2229.674+/-0.319 χ^2/NDF : 8588671.4/42

All: 2243.438+/-0.228 χ^2/NDF : 15980463.8/86

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 22.785 ± 39.169 $\chi^2/\text{NDF}: 28.7/30$

Left Out: 58.983 ± 21.137 $\chi^2/\text{NDF}: 46.9/24$

Right Out: 52.460 ± 39.367 $\chi^2/\text{NDF}: 40.3/33$

Left In: 59.235 ± 21.921 $\chi^2/\text{NDF}: 29.4/22$

Left: 59.104 ± 15.216 $\chi^2/\text{NDF}: 76.3/47$

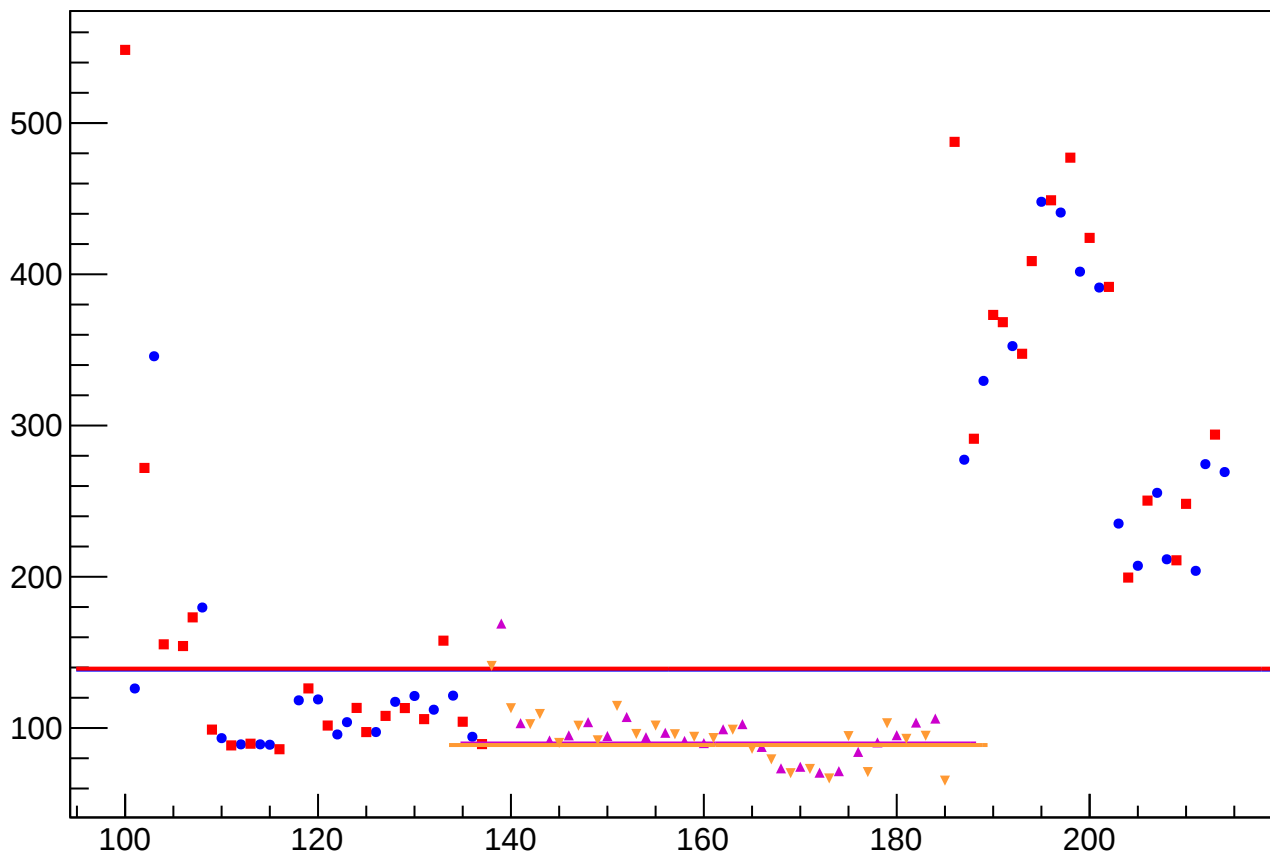
Right: 37.548 ± 27.767 $\chi^2/\text{NDF}: 69.3/64$

In: 50.541 ± 19.129 $\chi^2/\text{NDF}: 58.8/53$

Out: 57.523 ± 18.623 $\chi^2/\text{NDF}: 87.3/58$

All: 54.126 ± 13.344 $\chi^2/\text{NDF}: 146.1/112$

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 138.604 $\pm$ 0.028 χ^2 /NDF: 7530499.2/30

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

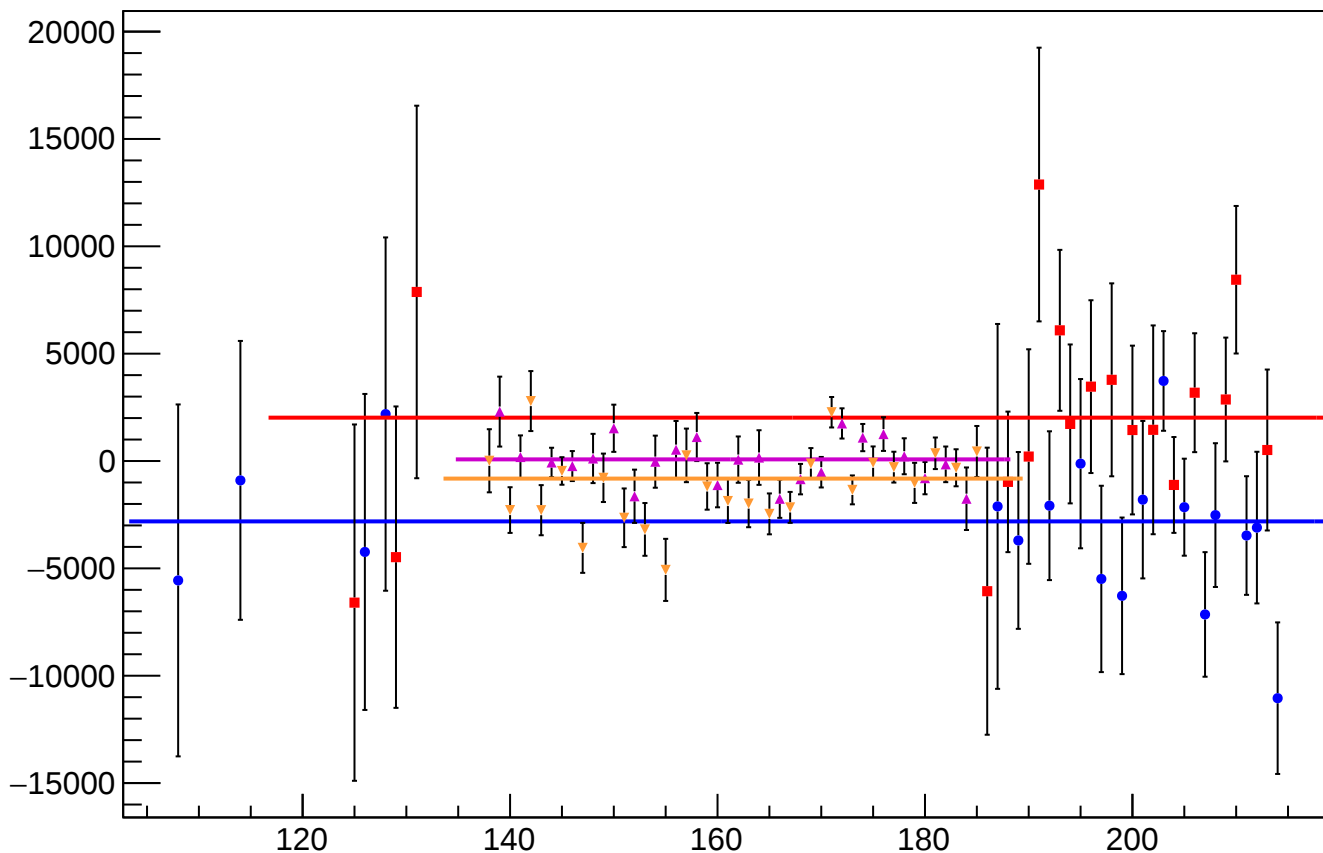
Right: 138.930 $\pm$ 0.020 χ^2 /NDF: 16025081.8/64

In: 101.414 $\pm$ 0.014 χ^2 /NDF:10784039.2/53

Out: 100.051 $\pm$ 0.013 χ^2 /NDF:12129326.8/58

All: 100.714 $\pm$ 0.009 χ^2 /NDF: 22918577.6/121

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -2812.192 $\pm$ 852.496 χ^2 /NDF: 18.3/17

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 2019.540 $\pm$ 913.490 χ^2 /NDF: 15.1/17

Left In: 76.204 $\pm$ 186.651 χ^2 /NDF:28.3/22

Left: -376.610 $\pm$ 131.202 χ^2 /NDF: 108.1/47

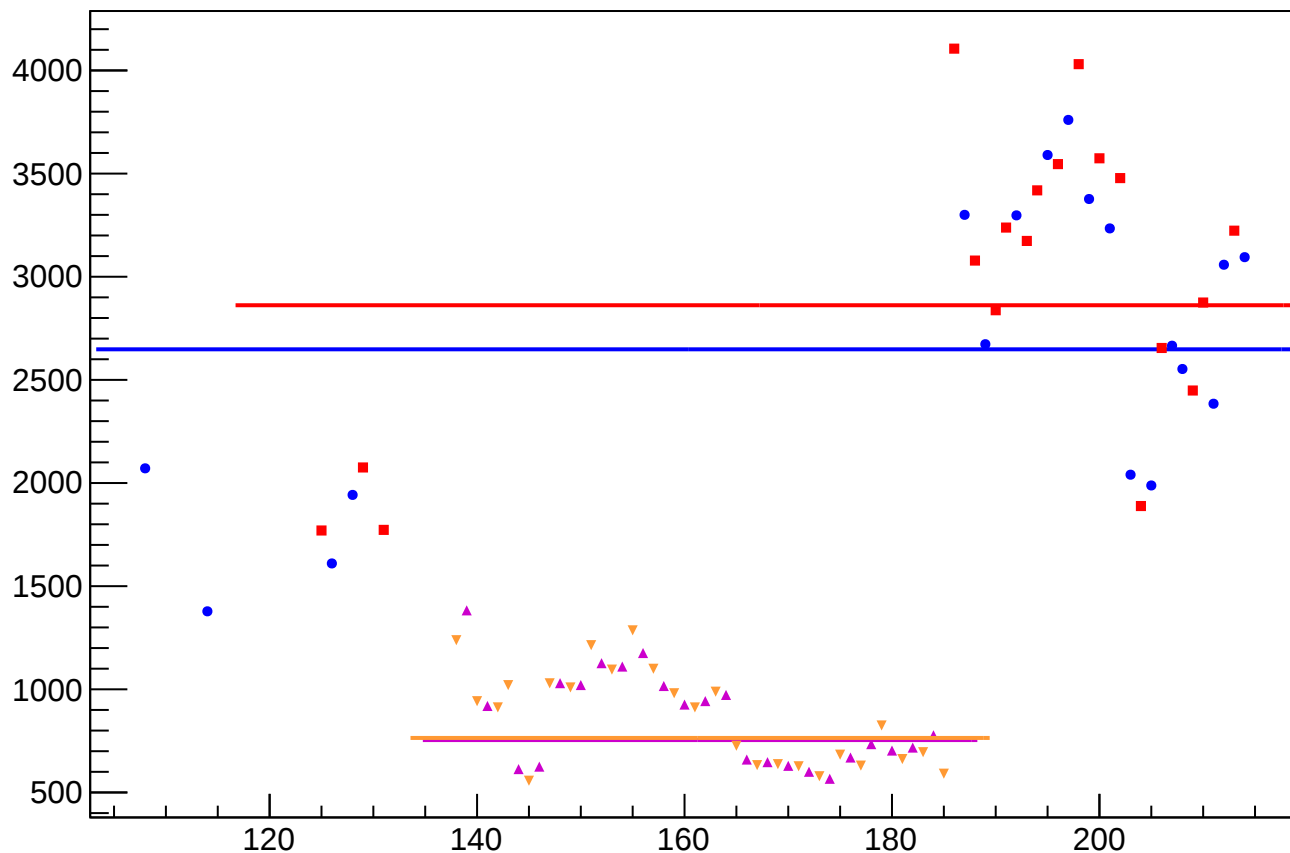
Right: -563.006 $\pm$ 623.254 χ^2 /NDF: 48.4/35

In: -55.924 $\pm$ 182.332 χ^2 /NDF:57.5/40

Out: -707.669 $\pm$ 180.814 χ^2 /NDF:92.6/42

All: -384.520 $\pm$ 128.388 χ^2 /NDF: 156.6/83

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2648.155+/-0.603 χ^2/NDF : 986246.1/17

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

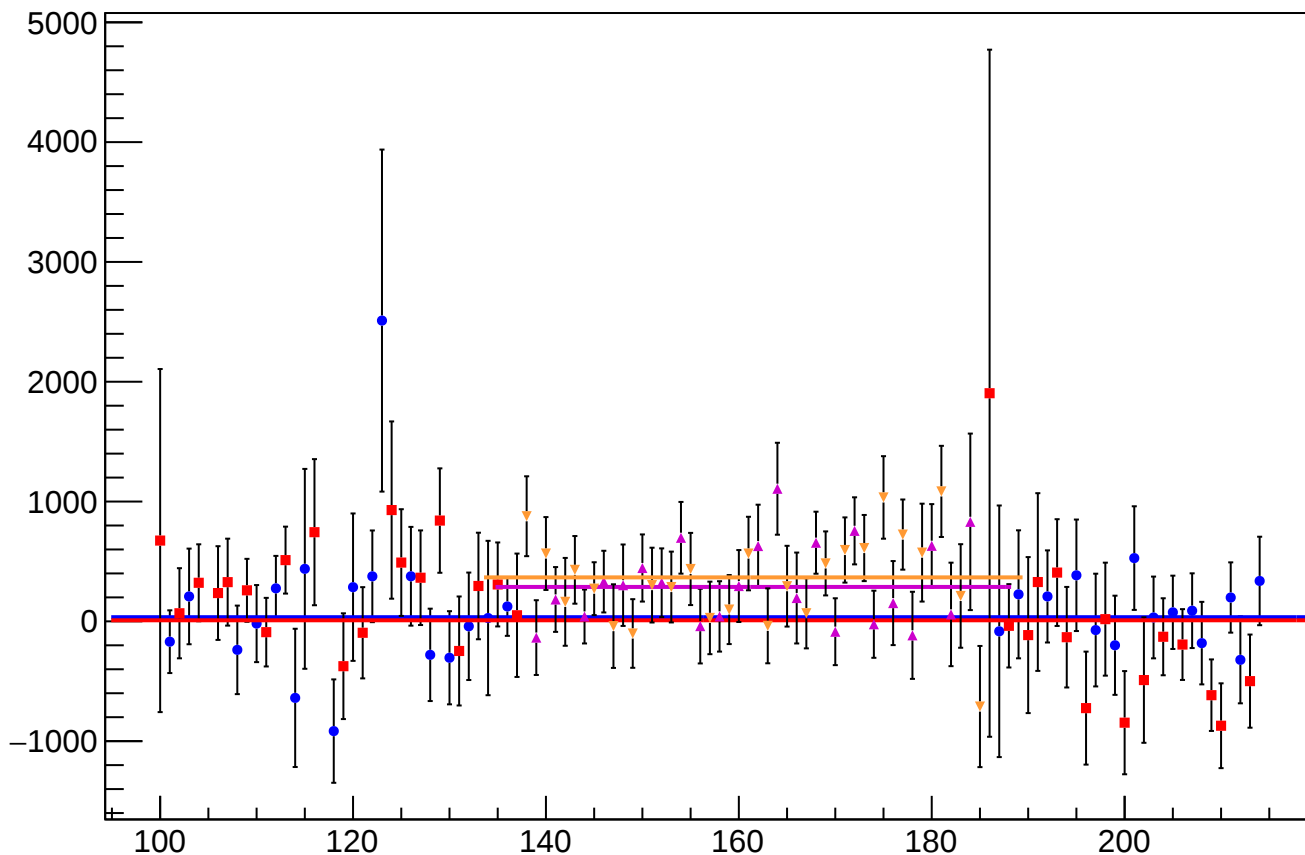
Right: 2747.618+/-0.441 χ^2/NDF : 2022289.0/35

In: 840.673+/-0.129 χ^2/NDF : 12421319.8/40

Out: 846.460+/-0.128 χ^2/NDF : 13425343.5/42

All: 843.591+/-0.091 χ^2/NDF : 25847679.2/83

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: 34.650+/-68.922 χ^2/NDF : 19.8/30

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

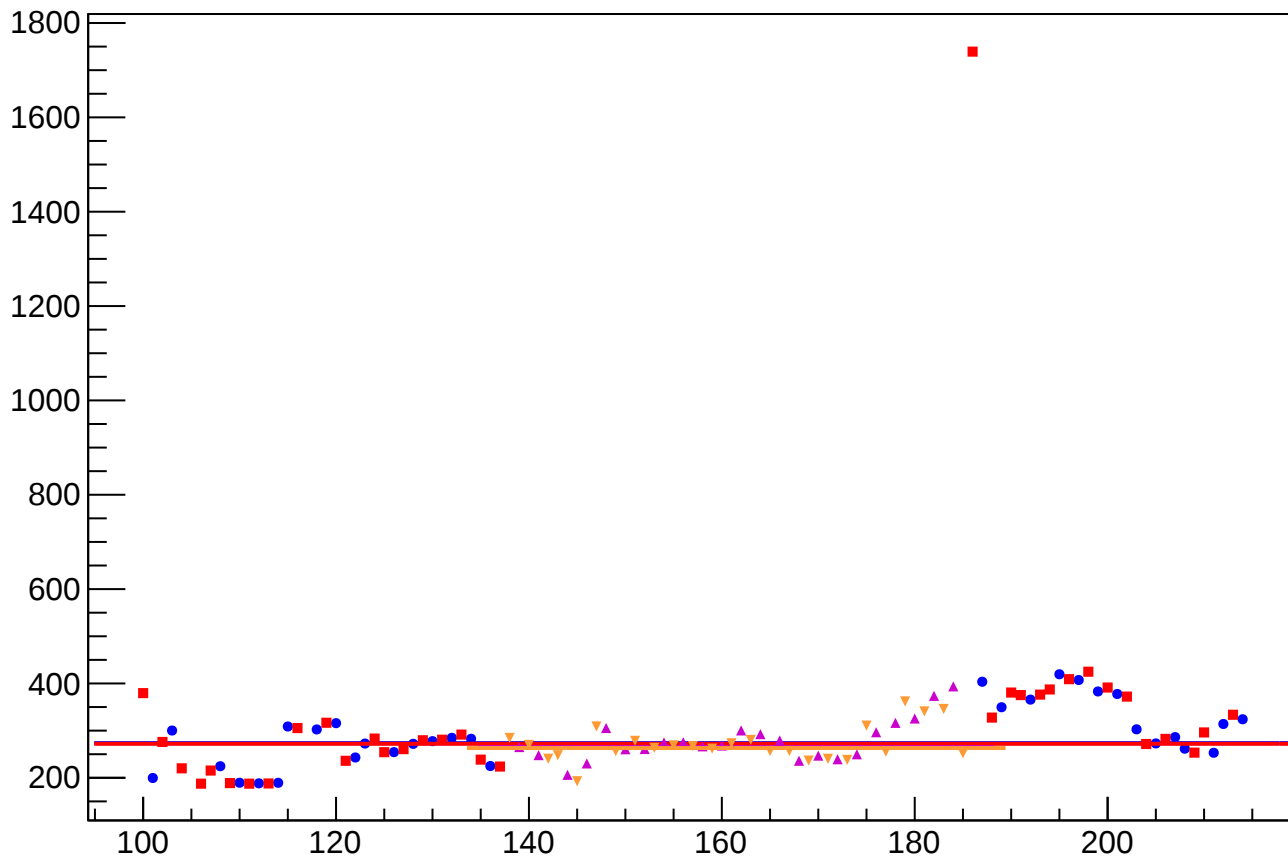
Right: 21.647+/-48.522 χ^2/NDF : 59.2/64

In: 170.013+/-46.954 χ^2/NDF :50.9/53

Out: 205.449+/-45.891 χ^2/NDF :82.6/58

All: 188.137+/-32.819 χ^2/NDF : 133.8/112

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 273.480+/-0.049 χ^2/NDF : 1593296.0/30

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

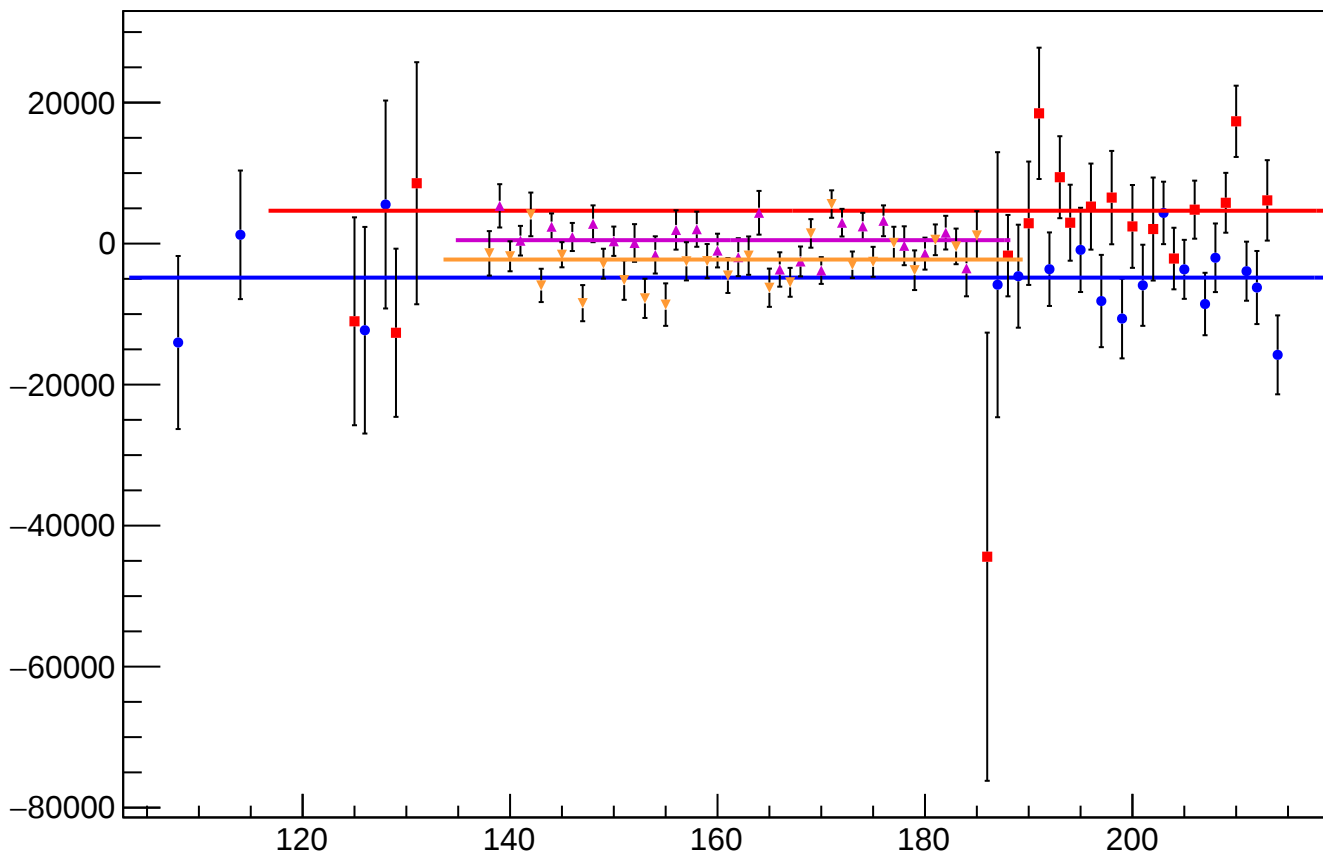
Right: 272.801+/-0.034 χ^2/NDF : 4051055.5/64

In: 268.895+/-0.033 χ^2/NDF : 2218843.0/53

Out: 267.176+/-0.032 χ^2/NDF : 3118772.5/58

All: 268.016+/-0.023 χ^2/NDF : 5338985.3/112

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -4825.563 $\pm$ 1377.928 χ^2 /NDF: 13.0/17

Left Out: -2260.196 $\pm$ 475.336 χ^2 /NDF:52.3/24

Right Out: 4661.303 $\pm$ 1460.518 χ^2 /NDF: 19.1/17

Left In: 485.590 $\pm$ 487.465 χ^2 /NDF:24.8/22

Left: -921.890 $\pm$ 340.321 χ^2 /NDF: 93.4/47

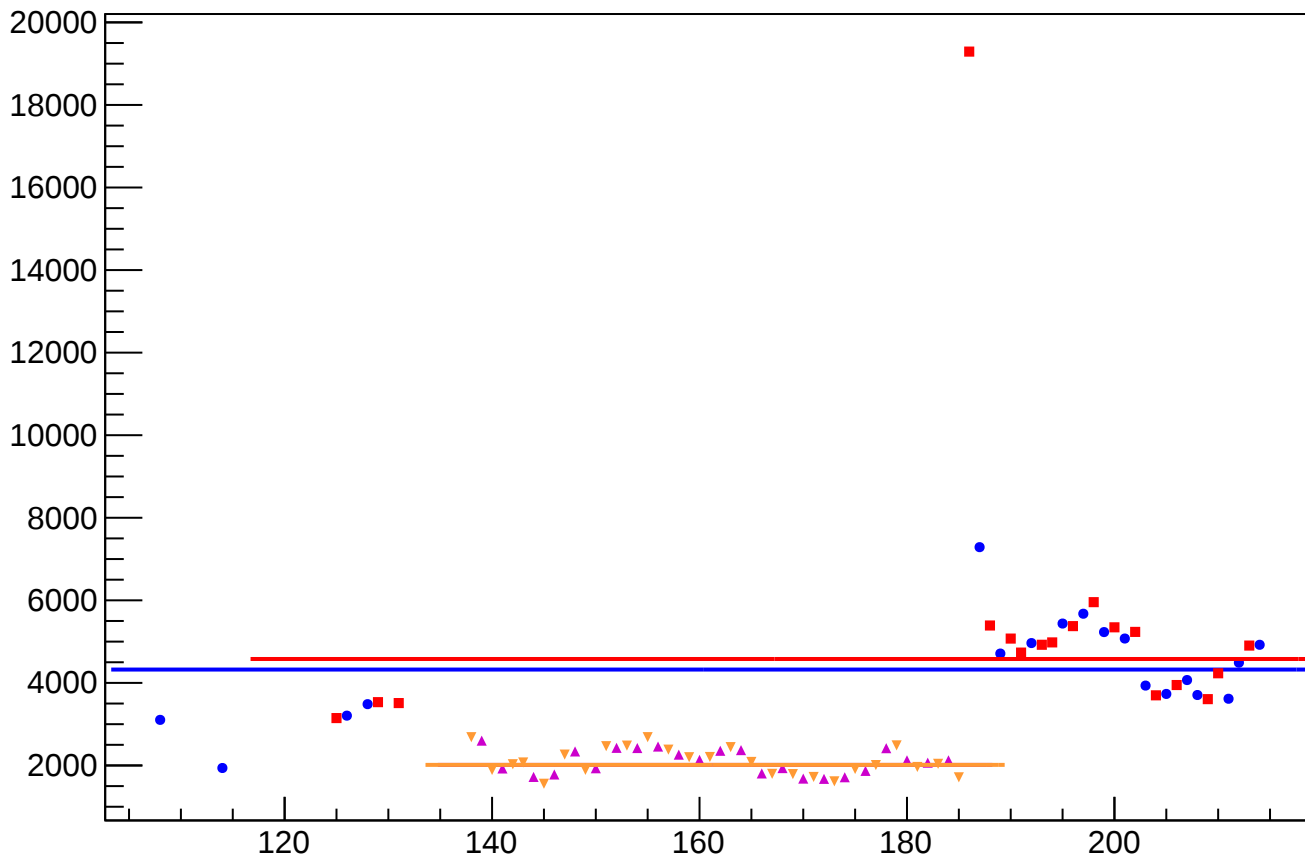
Right: -357.937 $\pm$ 1002.268 χ^2 /NDF: 54.4/35

In: -105.172 $\pm$ 459.556 χ^2 /NDF:50.9/40

Out: -1597.274 $\pm$ 452.000 χ^2 /NDF:91.7/42

All: -863.591 $\pm$ 322.250 χ^2 /NDF: 148.0/83

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4323.198+/-0.974 χ^2/NDF : 677052.9/17

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

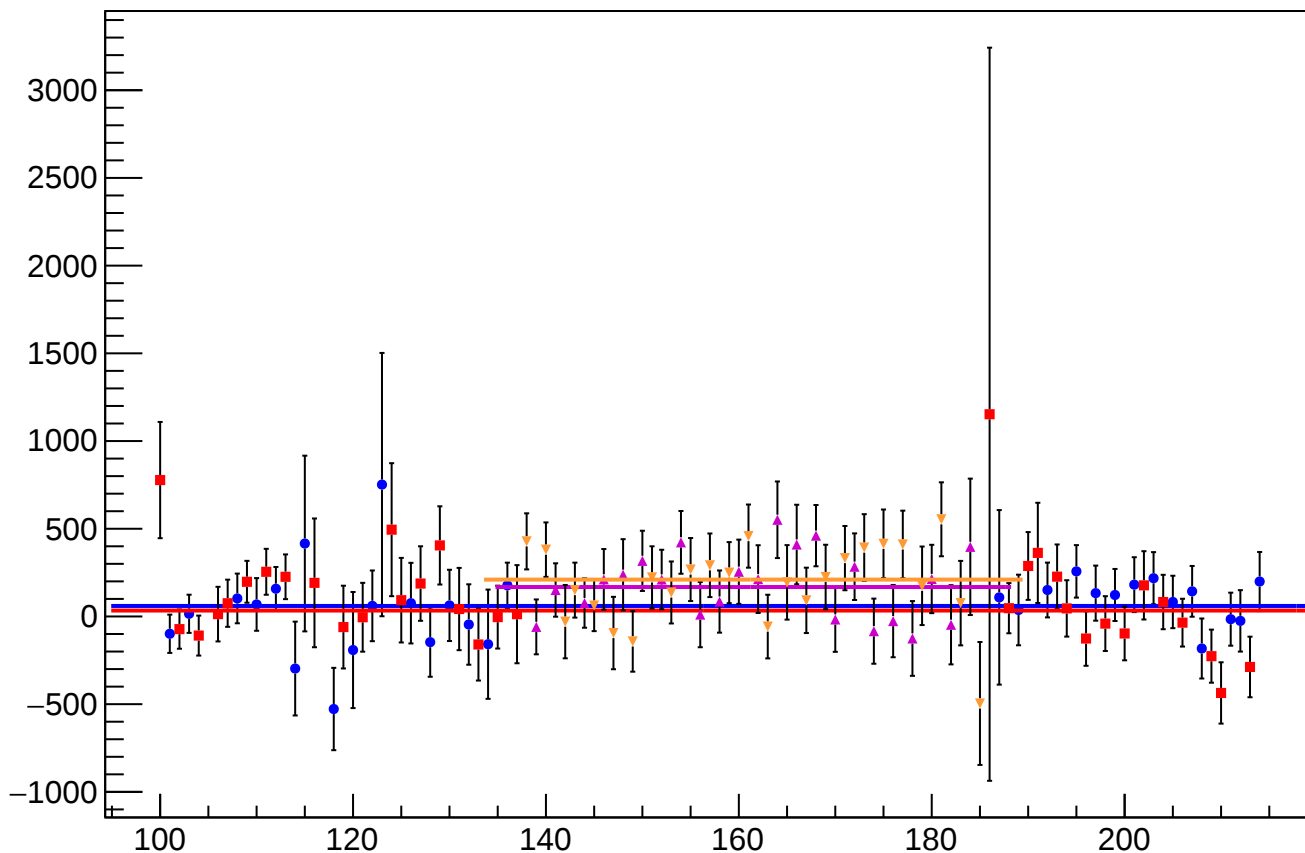
Right: 4443.735+/-0.709 χ^2/NDF : 1664489.1/35

In: 2270.183+/-0.325 χ^2/NDF : 6334556.4/40

Out: 2259.779+/-0.320 χ^2/NDF : 7368654.0/42

All: 2264.895+/-0.228 χ^2/NDF : 13703731.4/86

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 59.877+/-30.400 χ^2/NDF : 23.4/30

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

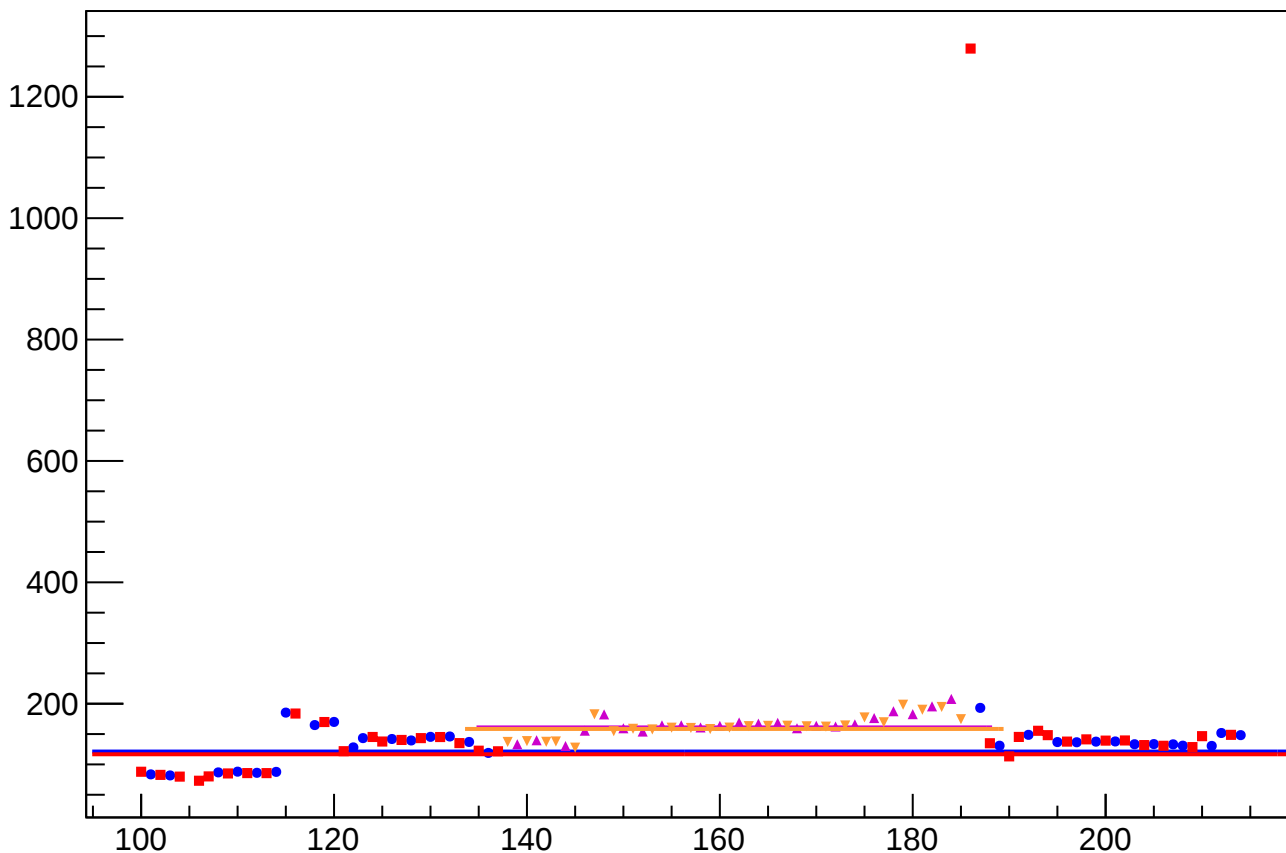
Right: 46.303+/-21.074 χ^2/NDF : 65.6/64

In: 101.045+/-23.910 χ^2/NDF :49.3/53

Out: 101.325+/-22.963 χ^2/NDF :83.3/58

All: 101.191+/-16.562 χ^2/NDF : 132.6/112

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 121.180 $\pm$ 0.021 χ^2 /NDF: 1508555.4/30

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 116.705 $\pm$ 0.021 χ^2 /NDF: 2553871.8/33

Left In: 160.947 $\pm$ 0.027 χ^2 /NDF: 379713.4/22

Left: 159.640 $\pm$ 0.019 χ^2 /NDF: 818385.9/47

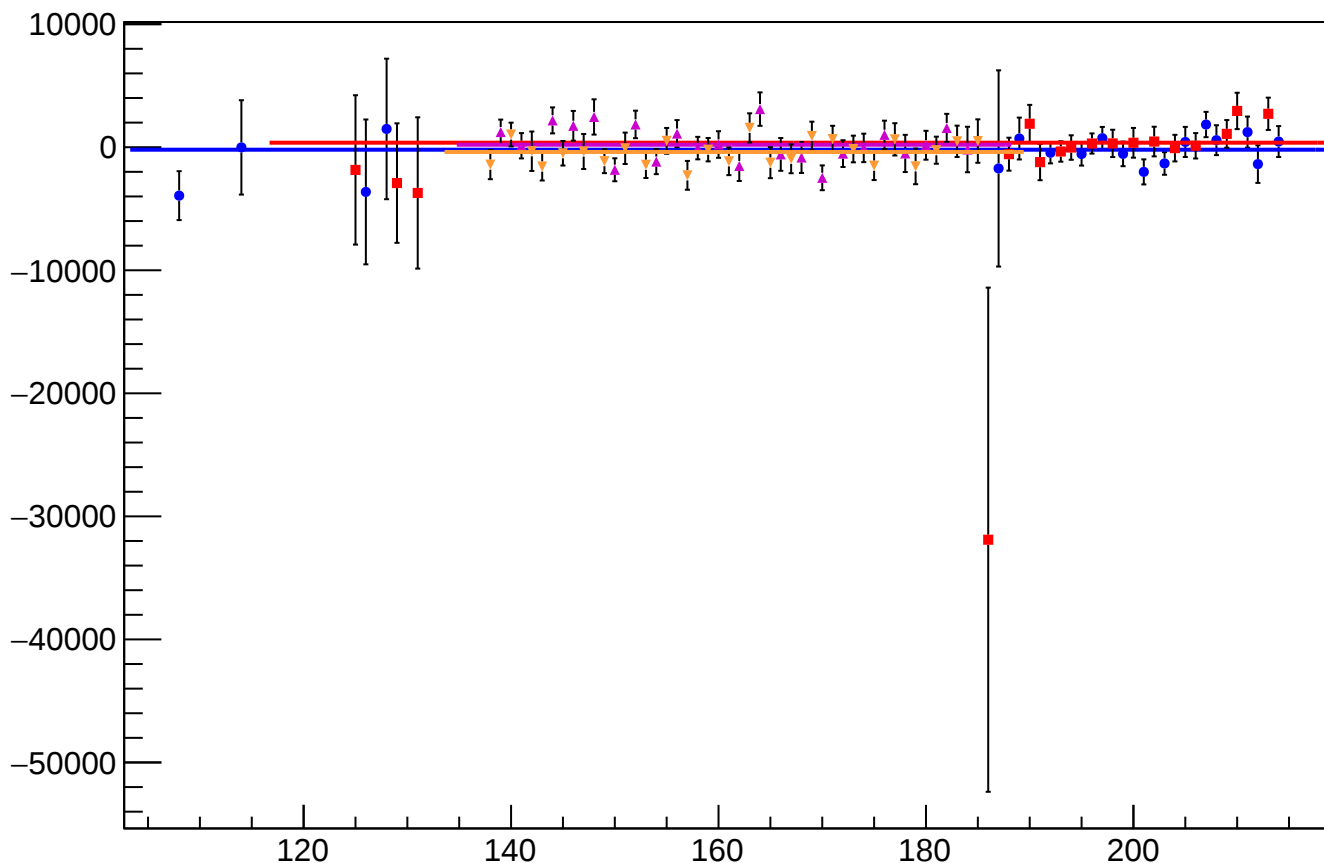
Right: 118.856 $\pm$ 0.015 χ^2 /NDF: 4084937.3/64

In: 136.347 $\pm$ 0.017 χ^2 /NDF: 3193466.1/53

Out: 132.699 $\pm$ 0.016 χ^2 /NDF: 4549720.2/58

All: 134.449 $\pm$ 0.012 χ^2 /NDF: 7767392.3/112

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -201.998+/-294.328 χ^2 /NDF: 17.0/17

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

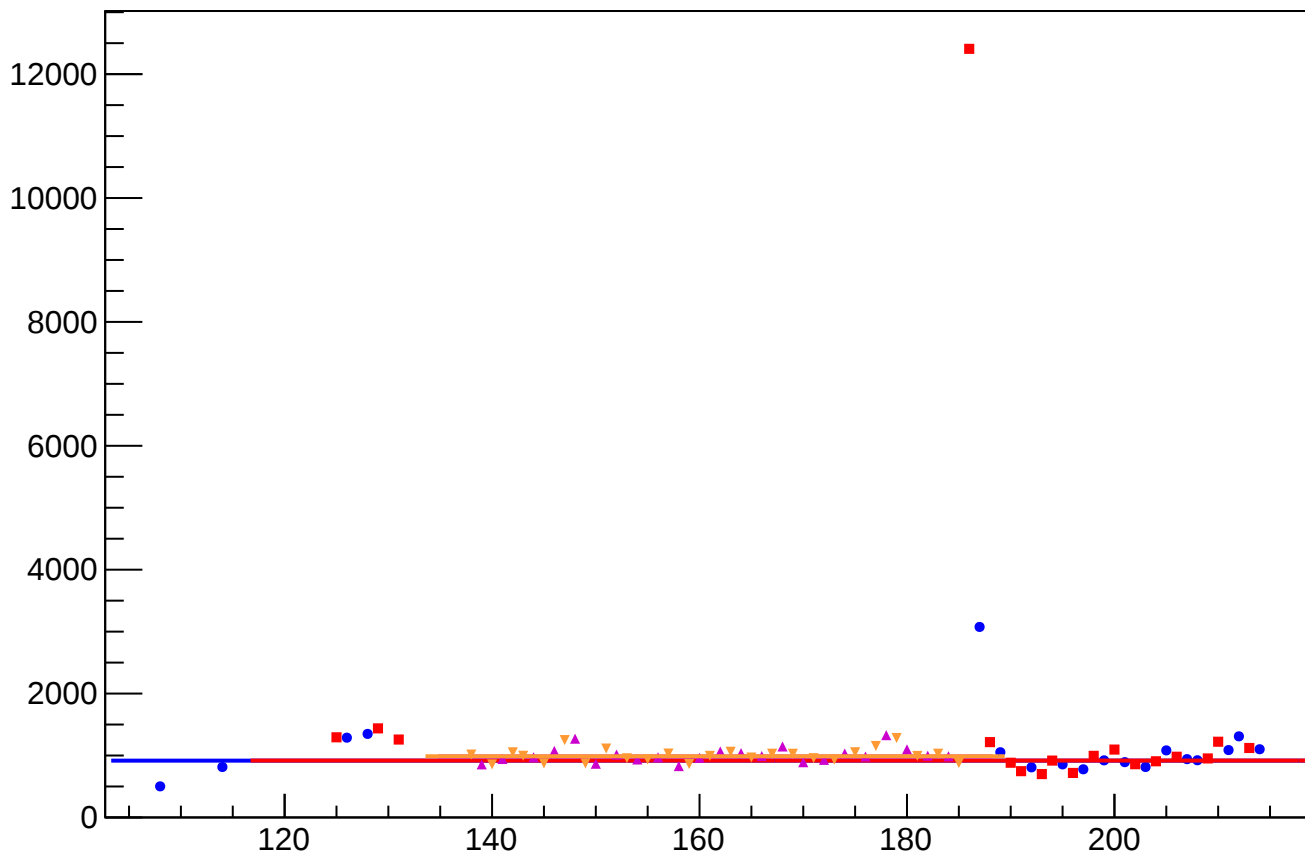
Right: 80.439+/-209.198 χ^2 /NDF: 32.9/35

In: 42.857+/-184.812 χ^2 /NDF:53.7/40

Out: -100.086+/-182.842 χ^2 /NDF:36.0/42

All: -29.380+/-129.980 χ^2 /NDF: 90.0/83

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 917.149+/-0.208 χ^2/NDF : 629154.2/17

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 918.619+/-0.210 χ^2/NDF : 1248760.4/17

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

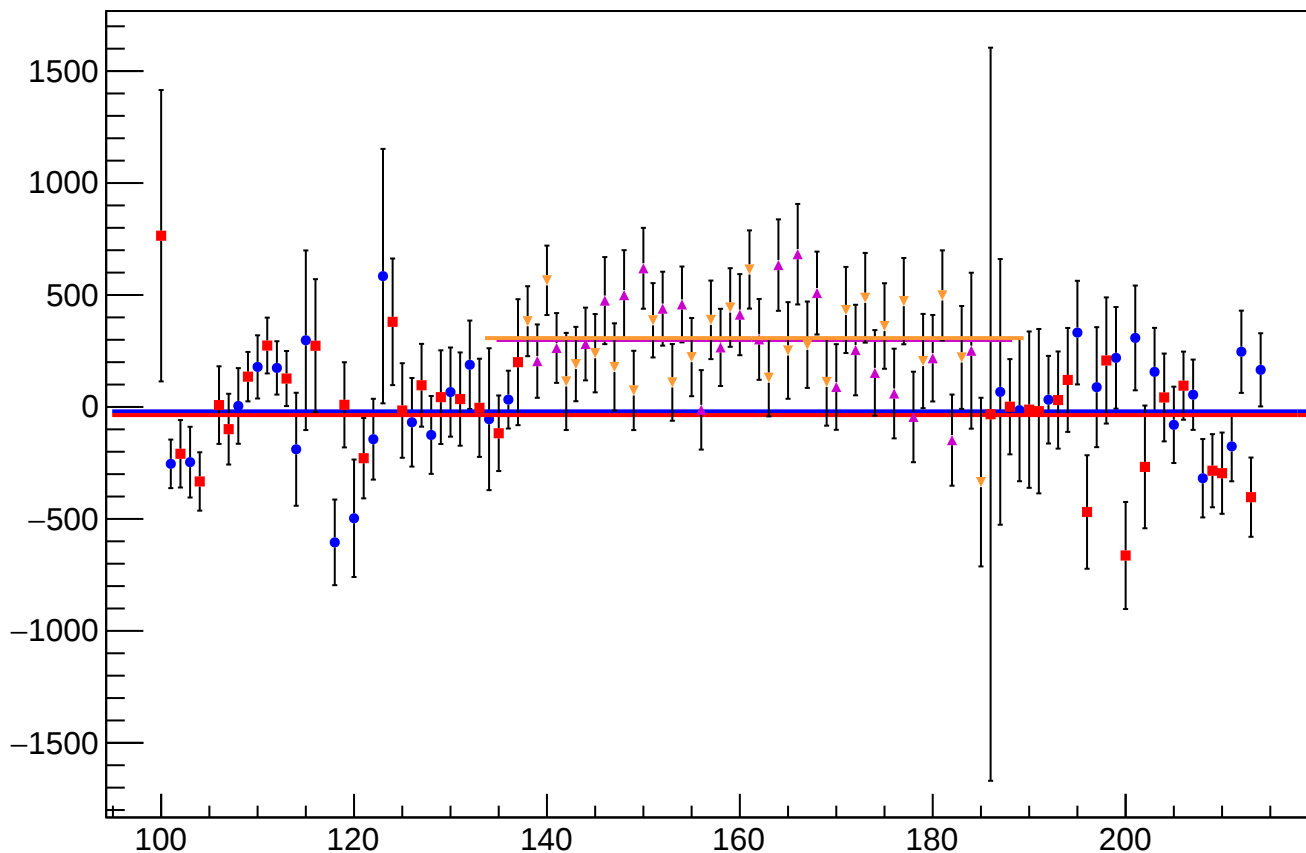
Right: 917.876+/-0.148 χ^2/NDF : 1877939.2/35

In: 957.578+/-0.131 χ^2/NDF : 1107716.5/40

Out: 961.693+/-0.129 χ^2/NDF : 1693171.5/42

All: 959.658+/-0.092 χ^2/NDF : 2801389.1/83

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -19.657 ± 33.170 $\chi^2/\text{NDF}: 42.7/30$

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 $\chi^2/\text{NDF}: 49.3/47$

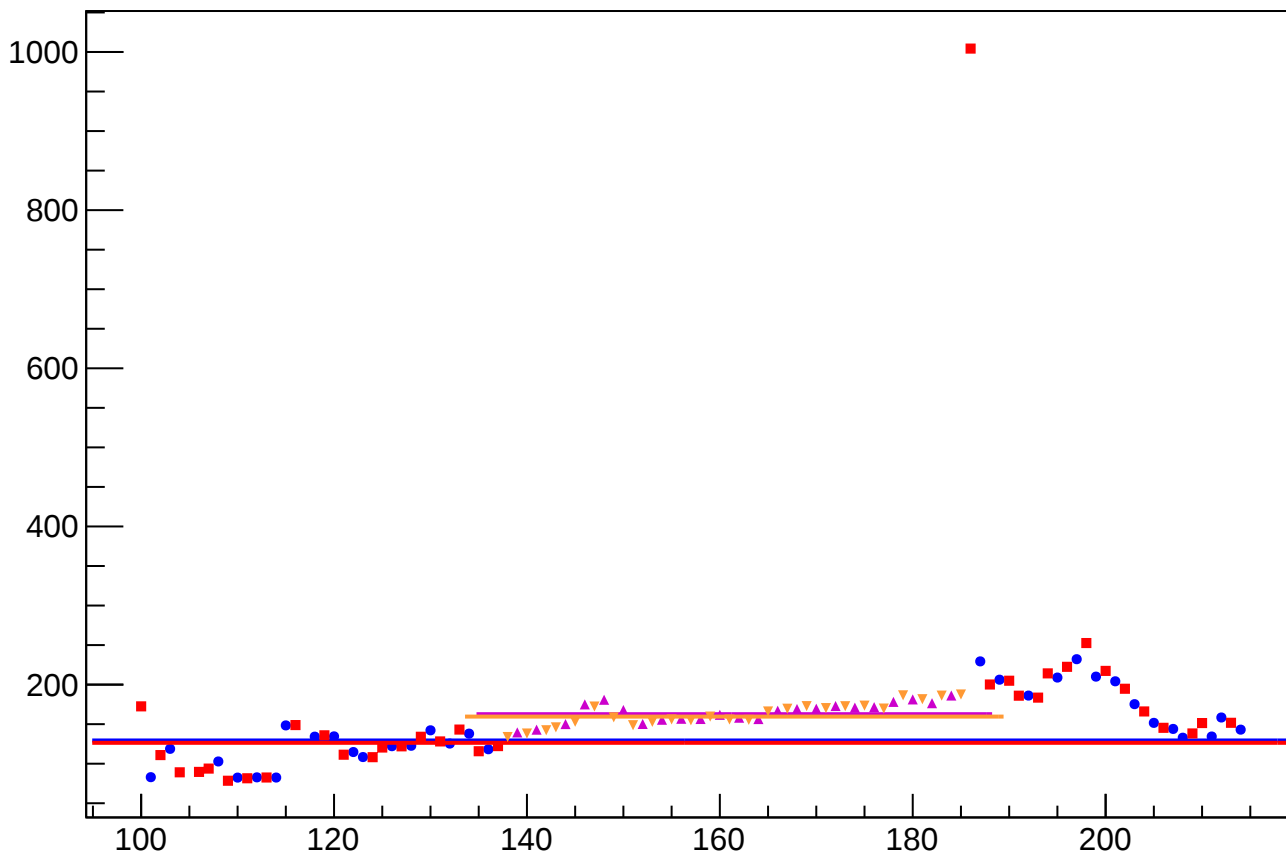
Right: -28.146 ± 23.220 $\chi^2/\text{NDF}: 89.1/64$

In: 114.143 ± 25.270 $\chi^2/\text{NDF}: 110.0/53$

Out: 112.247 ± 24.504 $\chi^2/\text{NDF}: 115.2/58$

All: 113.166 ± 17.591 $\chi^2/\text{NDF}: 225.3/112$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 129.363 $\pm$ 0.023 χ^2 /NDF: 2633417.0/30

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF: 287744.2/24

Right Out: 126.419 $\pm$ 0.023 χ^2 /NDF: 4025252.3/33

Left In: 162.606 $\pm$ 0.028 χ^2 /NDF: 199542.3/22

Left: 161.019 $\pm$ 0.019 χ^2 /NDF: 493626.9/47

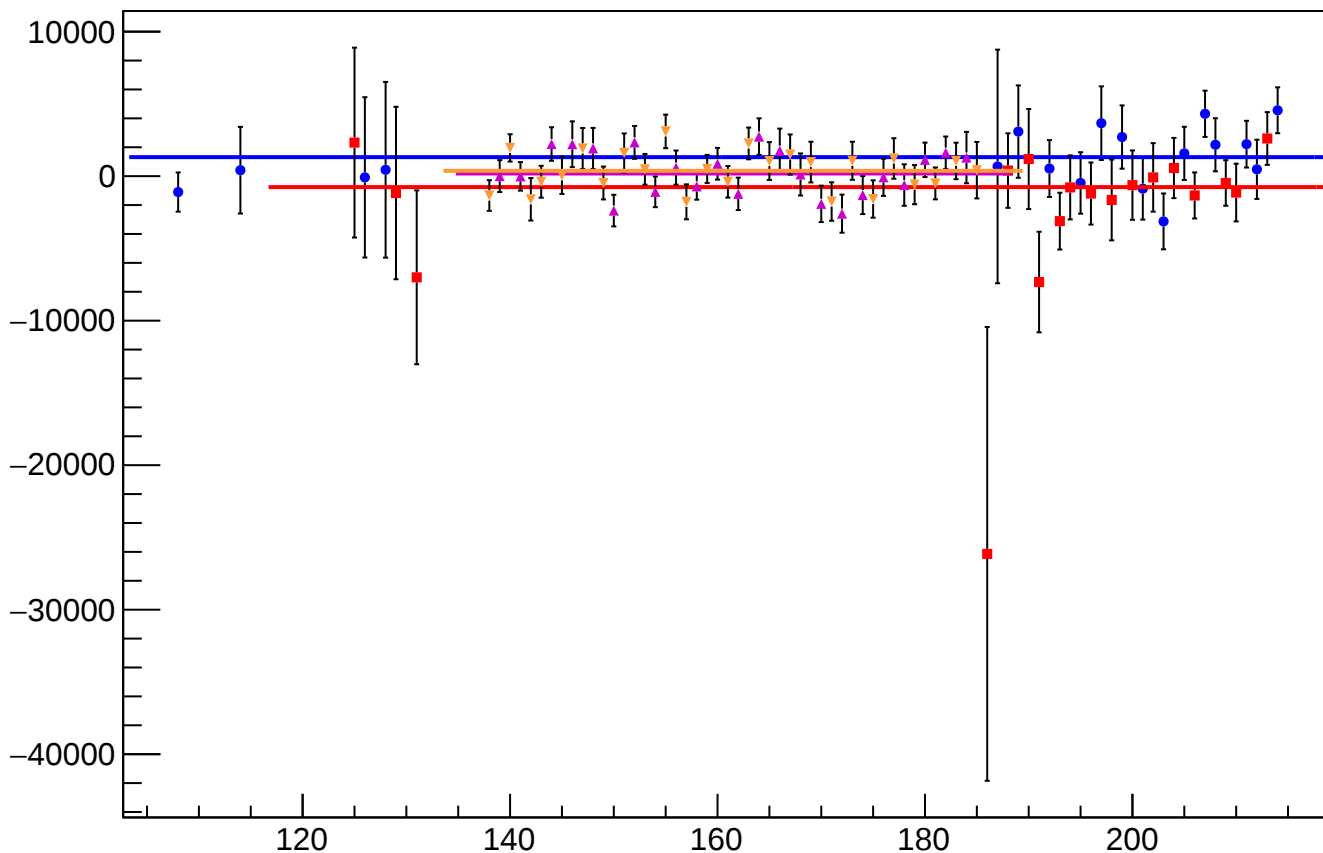
Right: 127.862 $\pm$ 0.016 χ^2 /NDF: 6666706.8/64

In: 143.313 $\pm$ 0.018 χ^2 /NDF: 3675910.8/53

Out: 140.743 $\pm$ 0.017 χ^2 /NDF: 5211178.6/58

All: 141.988 $\pm$ 0.012 χ^2 /NDF: 8897756.3/112

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 1315.859+/-490.615 χ^2/NDF : 20.5/17

Left Out: 370.001+/-243.521 χ^2/NDF :30.5/24

Right Out: -756.880+/-564.742 χ^2/NDF : 13.7/17

Left In: 183.107+/-252.258 χ^2/NDF :36.5/22

Left: 279.847+/-175.203 χ^2/NDF : 67.2/47

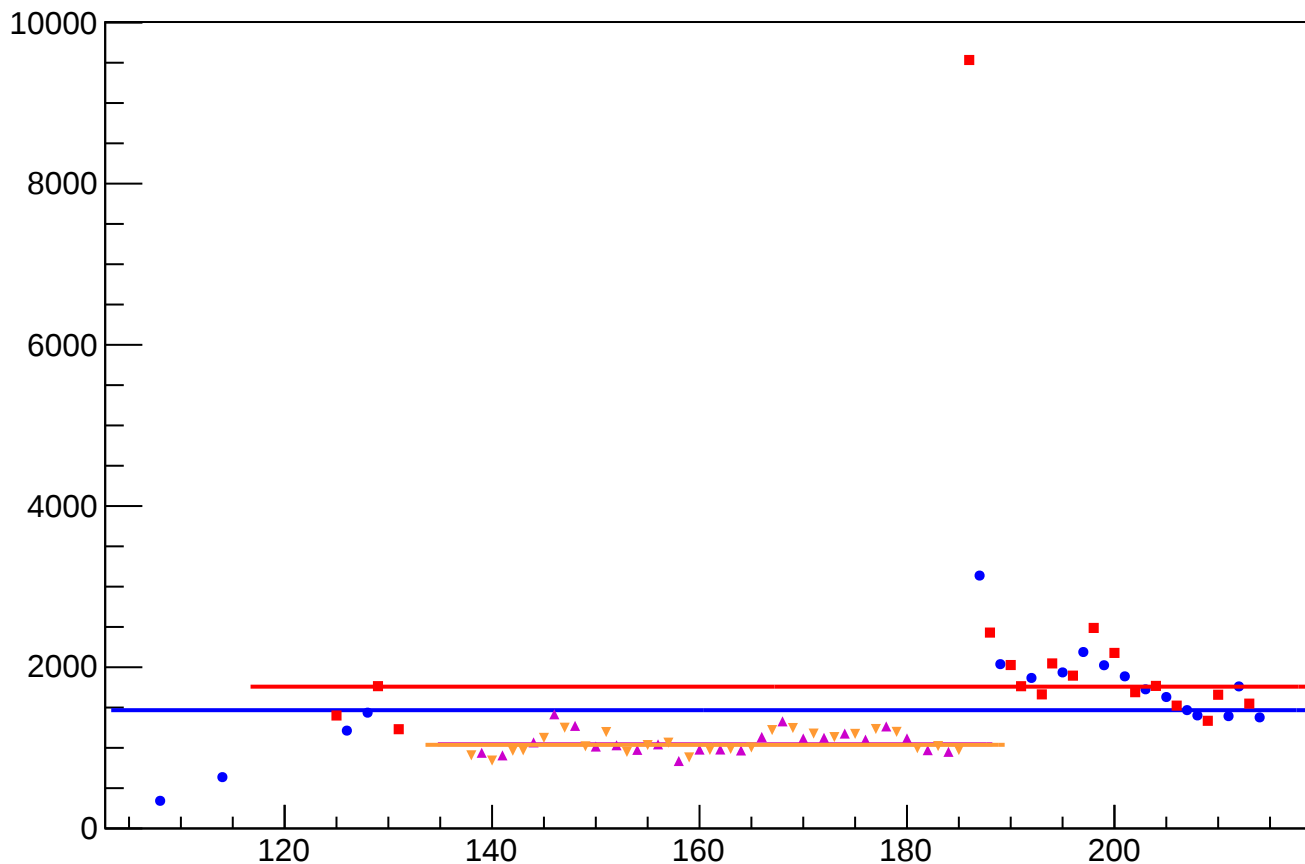
Right: 424.360+/-370.372 χ^2/NDF : 41.8/35

In: 419.955+/-224.341 χ^2/NDF :61.2/40

Out: 193.321+/-223.617 χ^2/NDF :47.5/42

All: 306.272+/-158.376 χ^2/NDF : 109.2/83

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1467.321+/-0.347

χ^2/NDF : 2333345.7/17

Left Out: 1037.689+/-0.172

χ^2/NDF : 494981.4/24

Right Out: 1759.145+/-0.399

χ^2/NDF : 1123831.4/17

Left In: 1044.746+/-0.178

χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124

χ^2/NDF : 1039107.0/47

Right: 1592.837+/-0.262

χ^2/NDF : 3761521.7/35

In: 1133.102+/-0.159

χ^2/NDF : 4050161.7/40

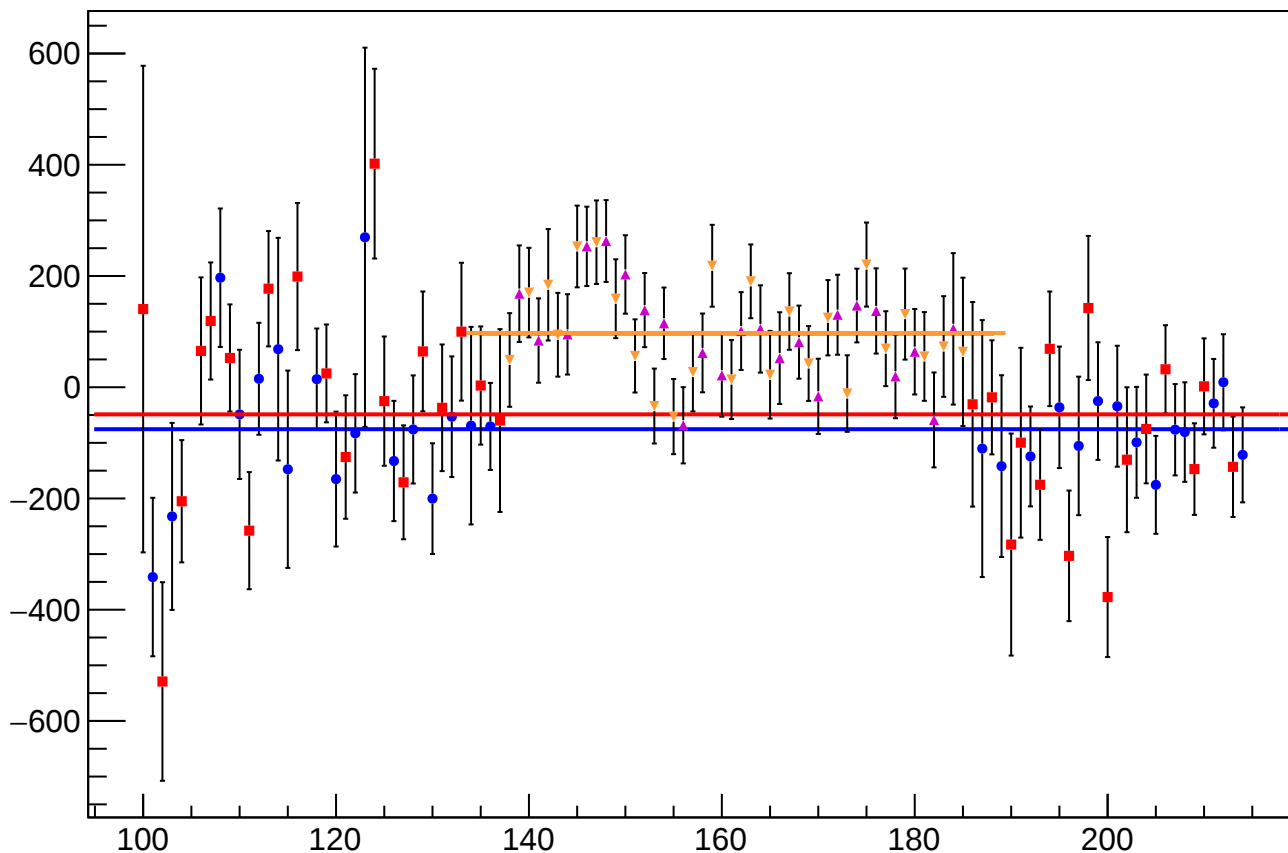
Out: 1150.804+/-0.158

χ^2/NDF : 4371060.1/42

All: 1141.982+/-0.112

χ^2/NDF : 8427467.9/83

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -75.455 ± 19.350 $\chi^2/\text{NDF}: 19.1/30$

Left Out: 97.445 ± 14.880 $\chi^2/\text{NDF}: 36.0/24$

Right Out: -48.759 ± 19.214 $\chi^2/\text{NDF}: 63.5/33$

Left In: 96.704 ± 15.369 $\chi^2/\text{NDF}: 29.2/22$

Left: 97.087 ± 10.690 $\chi^2/\text{NDF}: 65.2/47$

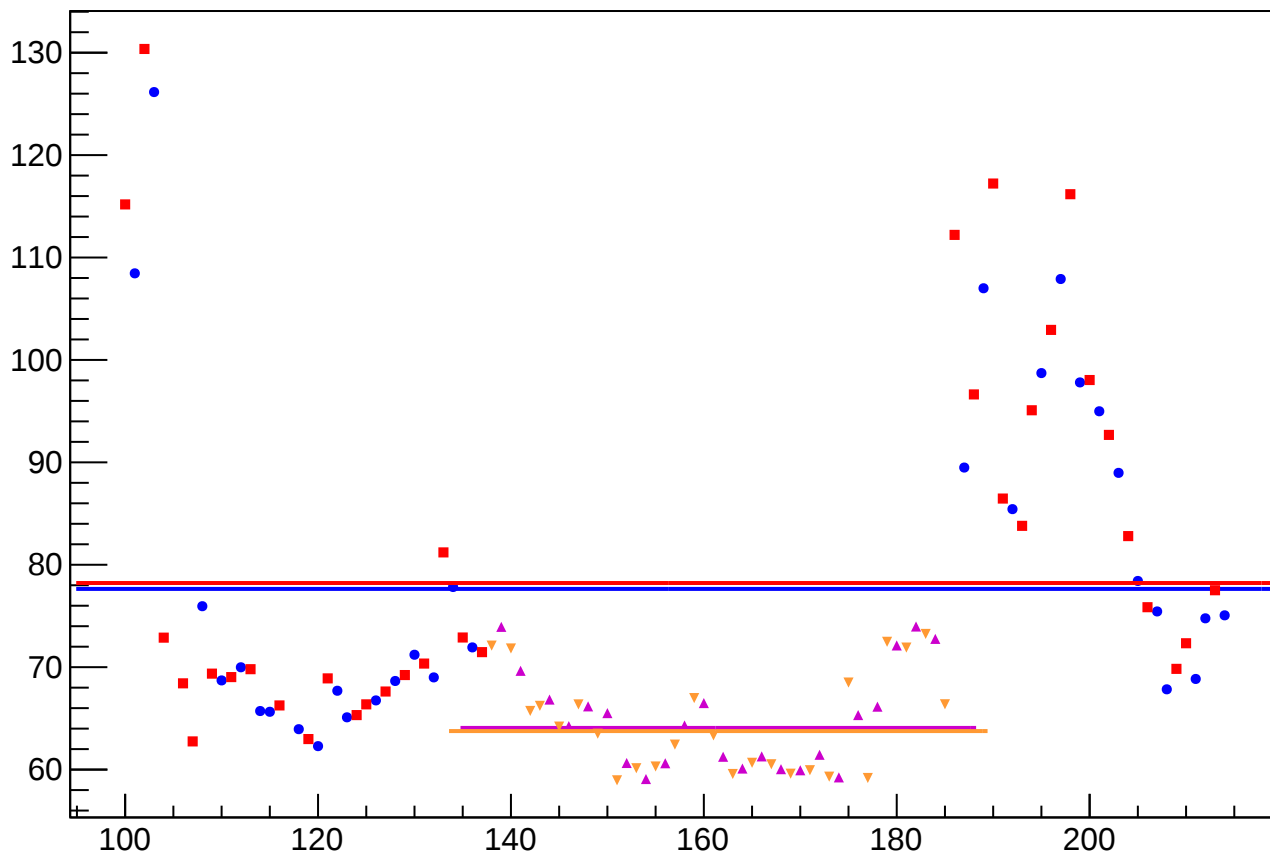
Right: -62.013 ± 13.634 $\chi^2/\text{NDF}: 83.6/64$

In: 30.108 ± 12.035 $\chi^2/\text{NDF}: 96.9/53$

Out: 42.635 ± 11.765 $\chi^2/\text{NDF}: 135.7/58$

All: 36.514 ± 8.413 $\chi^2/\text{NDF}: 233.1/112$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.642 $\pm$ 0.014 χ^2 /NDF: 947437.2/30

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

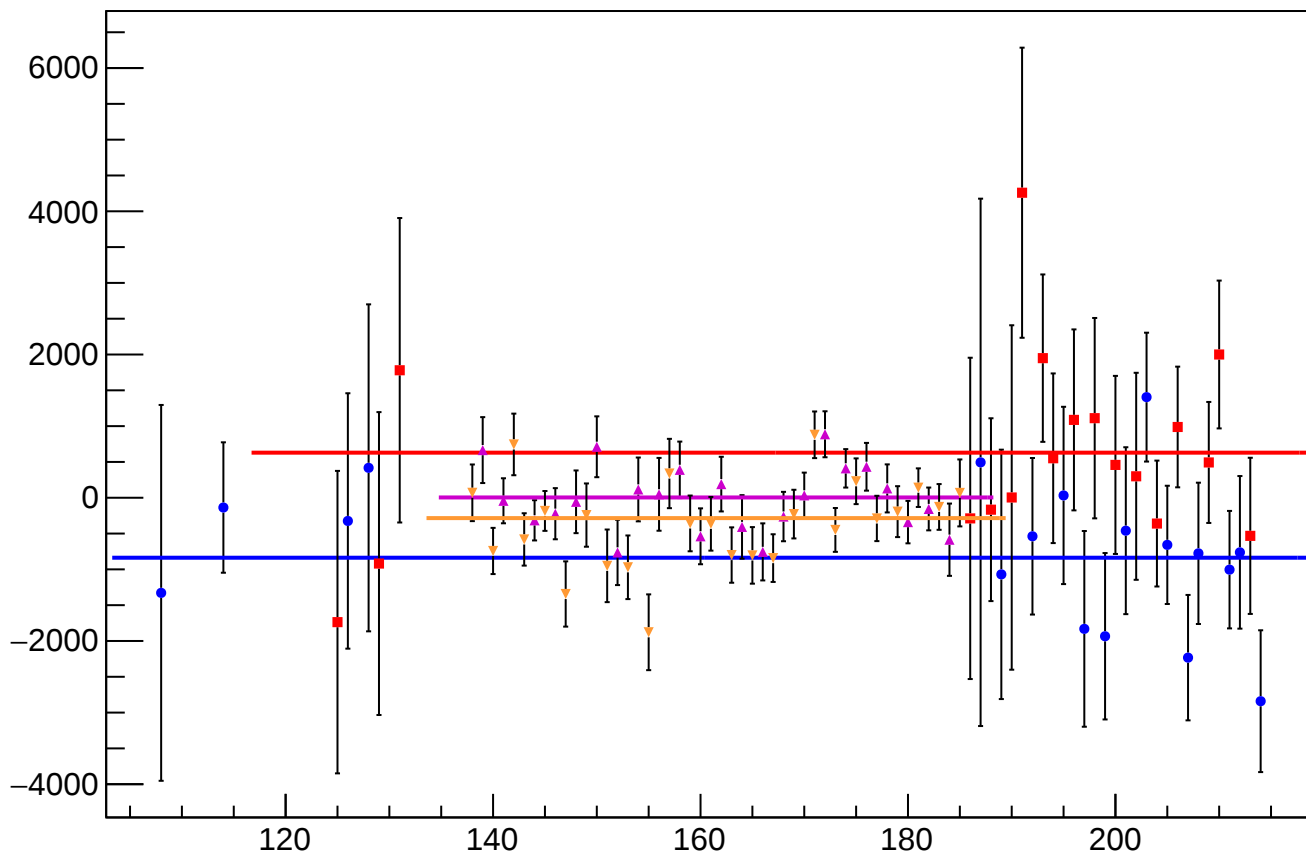
Right: 77.932 $\pm$ 0.010 χ^2 /NDF: 2077084.9/64

In: 69.319 $\pm$ 0.009 χ^2 /NDF: 1715535.7/53

Out: 69.180 $\pm$ 0.008 χ^2 /NDF: 2029233.3/58

All: 69.248 $\pm$ 0.006 χ^2 /NDF: 3744904.9/112

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -837.391 $\pm$ 265.516 χ^2 /NDF: 16.2/17

Left Out: -284.304 $\pm$ 72.732 χ^2 /NDF: 55.1/24

Right Out: 629.493 $\pm$ 295.008 χ^2 /NDF: 11.9/17

Left In: 4.037 $\pm$ 75.084 χ^2 /NDF: 32.4/22

Left: -144.720 $\pm$ 52.241 χ^2 /NDF: 95.0/47

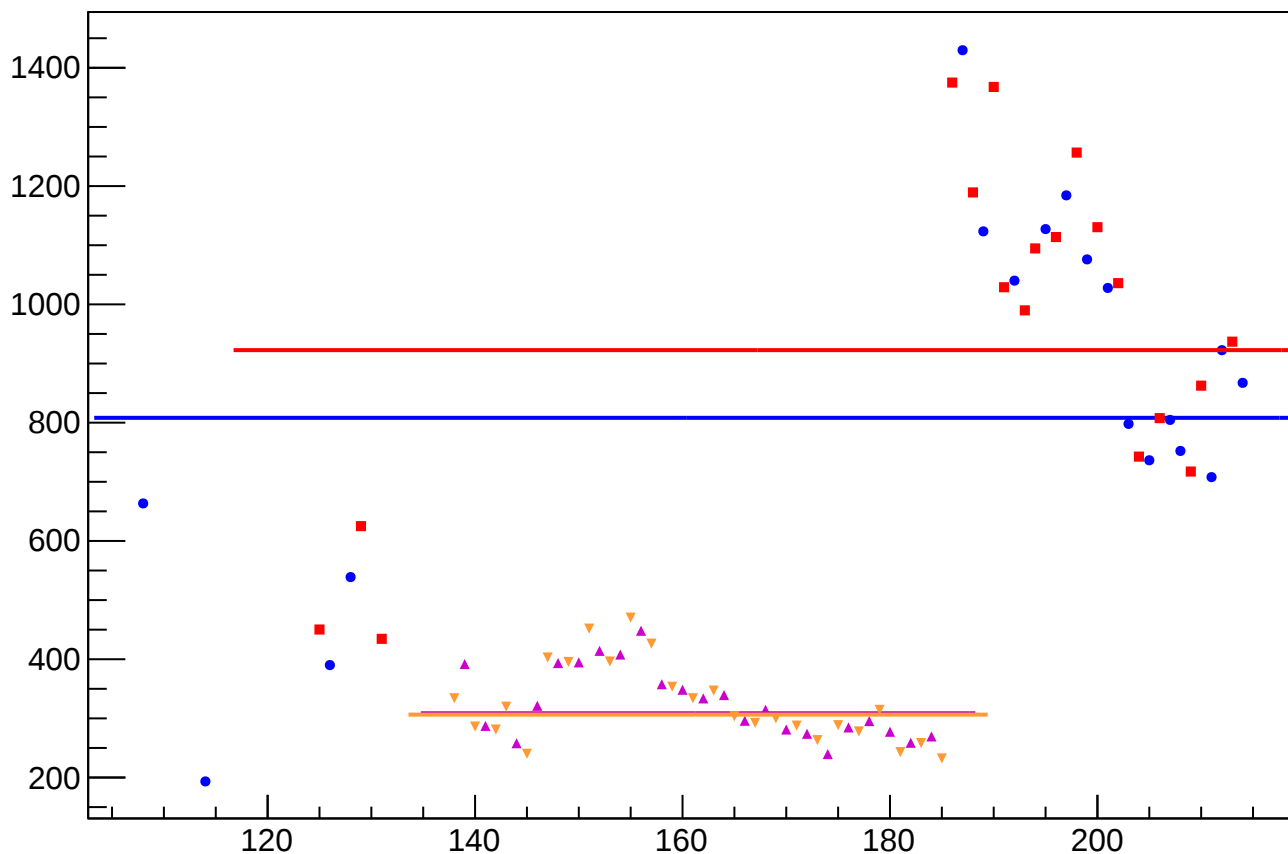
Right: -180.915 $\pm$ 197.354 χ^2 /NDF: 41.8/35

In: -58.268 $\pm$ 72.251 χ^2 /NDF: 57.9/40

Out: -231.942 $\pm$ 70.618 χ^2 /NDF: 76.0/42

All: -147.090 $\pm$ 50.502 χ^2 /NDF: 136.8/83

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 808.189+/-0.188 χ^2/NDF : 1811865.6/17

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 922.631+/-0.209 χ^2/NDF : 1010879.1/17

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

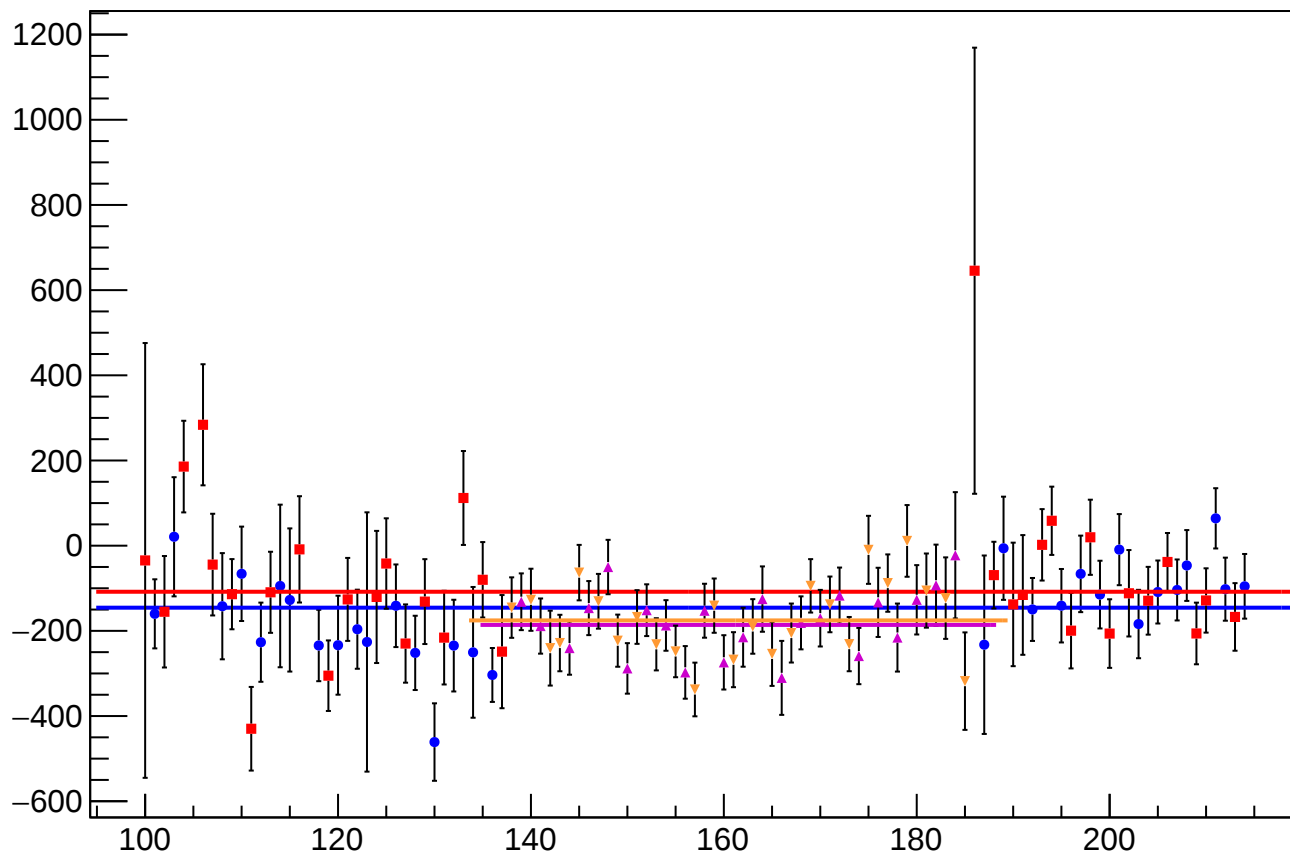
Right: 859.406+/-0.140 χ^2/NDF : 2989025.0/35

In: 345.710+/-0.051 χ^2/NDF : 9367869.7/40

Out: 341.676+/-0.050 χ^2/NDF : 10454202.2/42

All: 343.647+/-0.036 χ^2/NDF : 19825261.4/83

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -145.579 ± 16.495 $\chi^2/\text{NDF}: 42.7/30$

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 $\chi^2/\text{NDF}: 58.5/47$

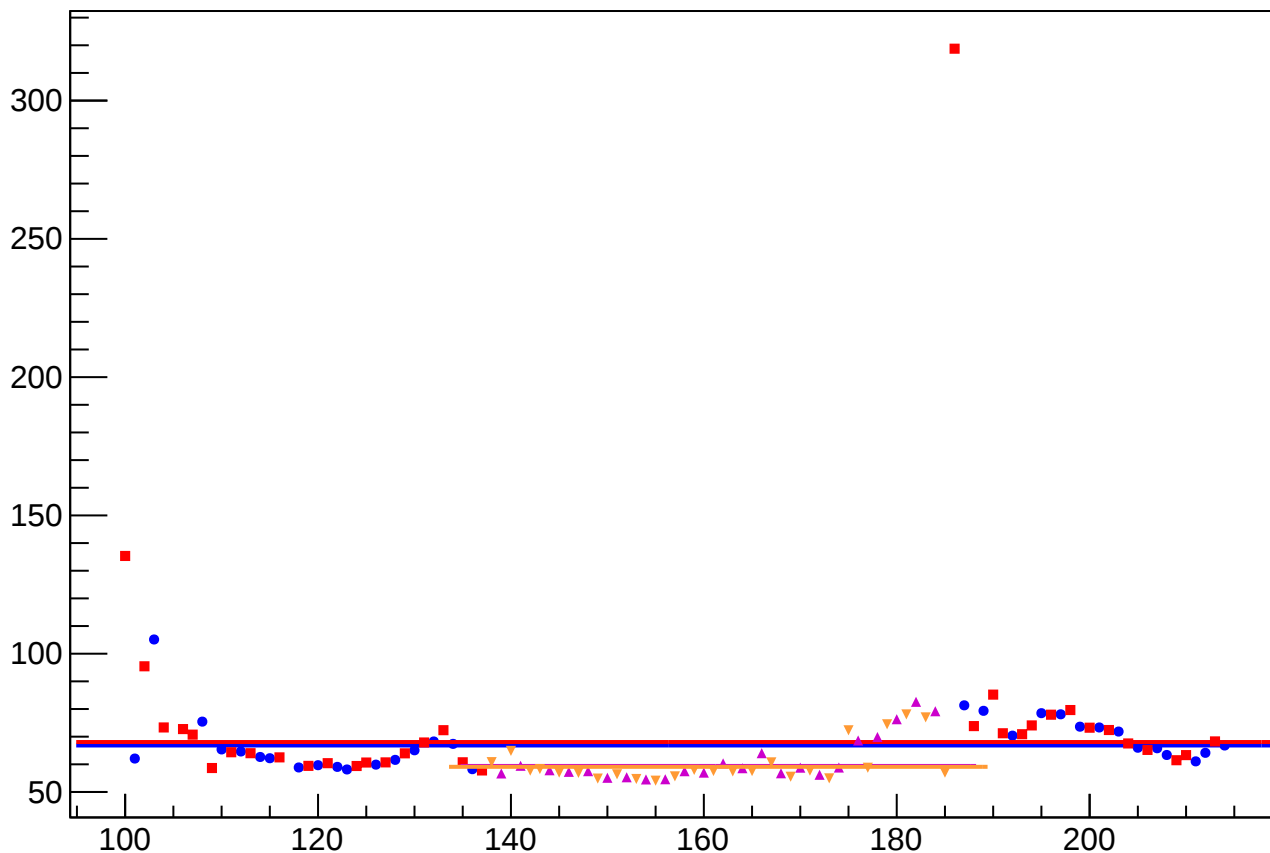
Right: -127.031 ± 11.714 $\chi^2/\text{NDF}: 102.8/64$

In: -168.662 ± 10.812 $\chi^2/\text{NDF}: 69.7/53$

Out: -147.929 ± 10.642 $\chi^2/\text{NDF}: 101.9/58$

All: -158.132 ± 7.584 $\chi^2/\text{NDF}: 173.4/112$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 66.814 $\pm$ 0.012 χ^2 /NDF: 424810.7/30

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

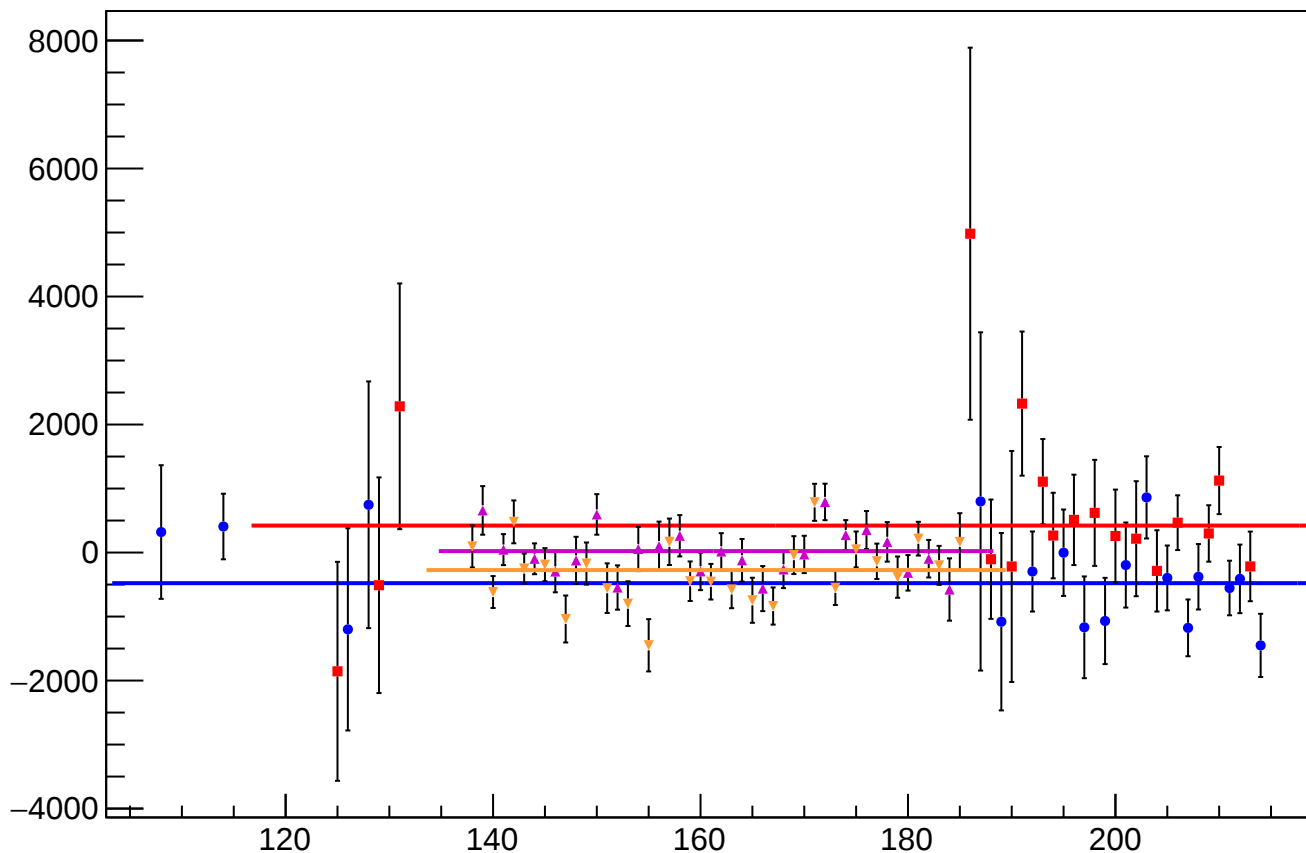
Right: 67.433 $\pm$ 0.008 χ^2 /NDF: 1302885.7/64

In: 62.591 $\pm$ 0.008 χ^2 /NDF: 1027651.5/53

Out: 62.767 $\pm$ 0.008 χ^2 /NDF: 1585158.9/58

All: 62.680 $\pm$ 0.005 χ^2 /NDF: 2613080.8/112

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -478.197 ± 148.747 $\chi^2/\text{NDF}: 17.7/17$

Left Out: -274.091 ± 60.799 $\chi^2/\text{NDF}: 53.9/24$

Right Out: 421.418 ± 170.170 $\chi^2/\text{NDF}: 14.6/17$

Left In: 22.631 ± 63.643 $\chi^2/\text{NDF}: 28.9/22$

Left: -132.507 ± 43.963 $\chi^2/\text{NDF}: 94.2/47$

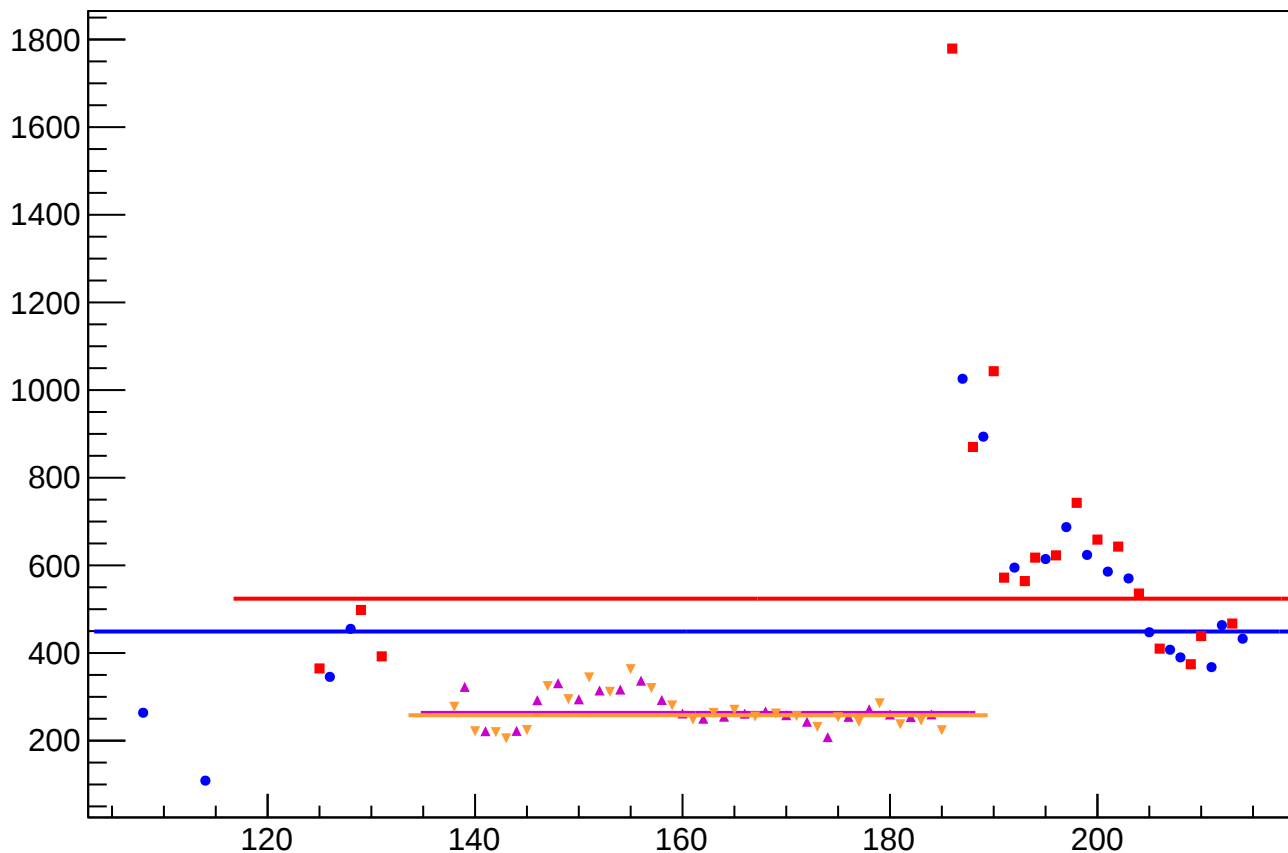
Right: -88.549 ± 111.993 $\chi^2/\text{NDF}: 48.1/35$

In: -54.867 ± 58.512 $\chi^2/\text{NDF}: 56.2/40$

Out: -195.358 ± 57.255 $\chi^2/\text{NDF}: 83.3/42$

All: -126.638 ± 40.923 $\chi^2/\text{NDF}: 142.4/83$

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 449.103+/-0.105 χ^2/NDF : 2074862.7/17

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

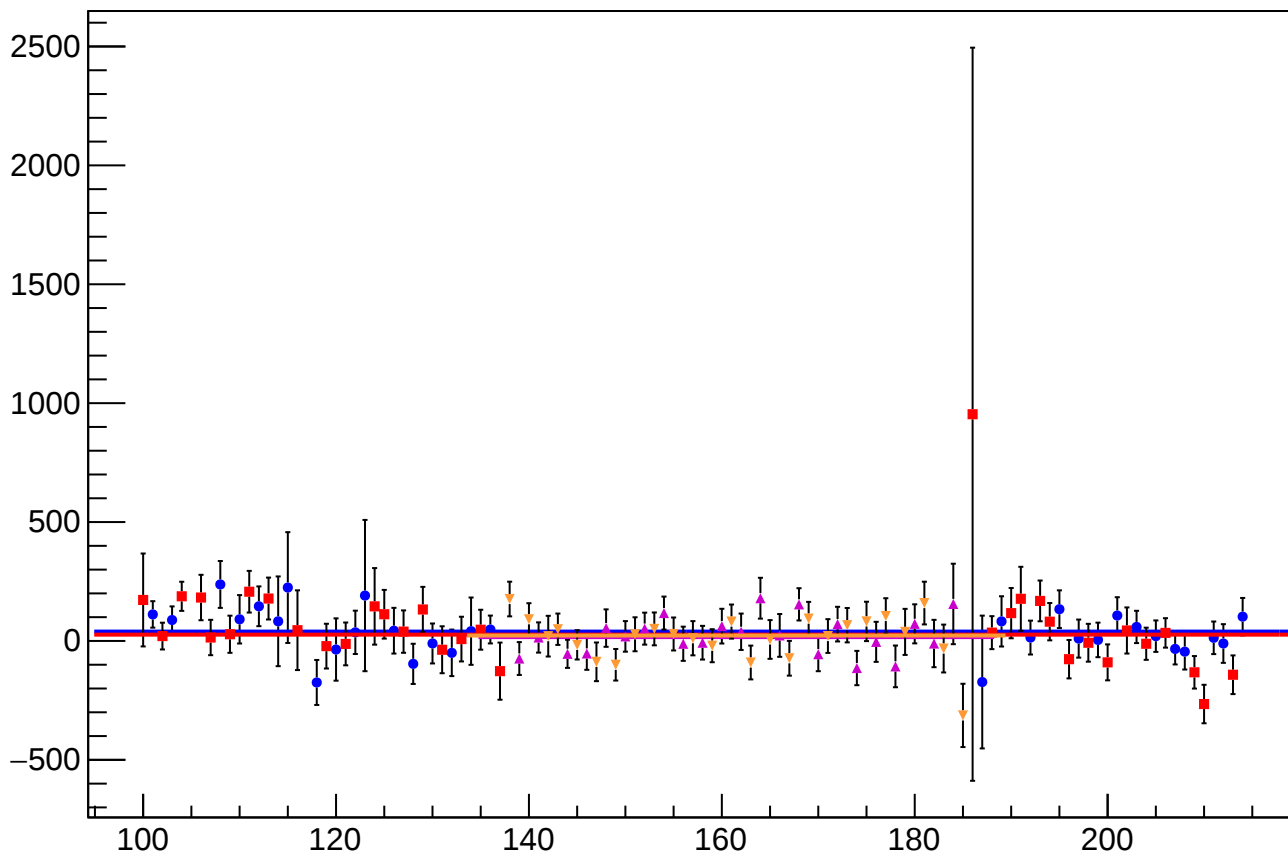
Right: 481.554+/-0.079 χ^2/NDF : 3916702.3/35

In: 292.132+/-0.041 χ^2/NDF : 5295441.9/40

Out: 288.150+/-0.040 χ^2/NDF : 6680035.6/42

All: 290.098+/-0.029 χ^2/NDF : 11980209.9/83

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 39.364+/-14.894 χ^2/NDF : 25.7/30

Left Out: 22.871+/-14.968 χ^2/NDF :29.0/24

Right Out: 26.511+/-14.691 χ^2/NDF : 55.4/33

Left In: 16.198+/-15.531 χ^2/NDF :23.3/22

Left: 19.658+/-10.777 χ^2/NDF : 52.4/47

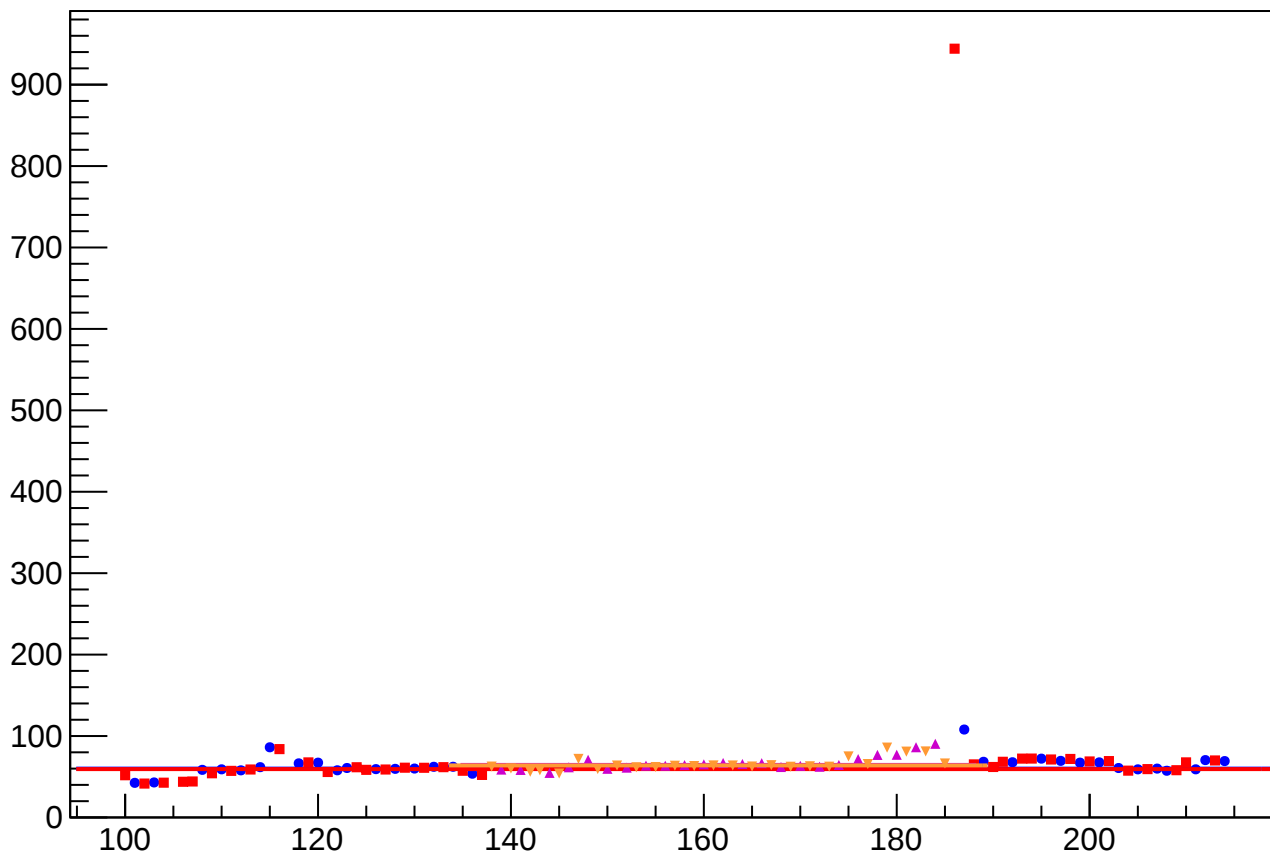
Right: 32.850+/-10.459 χ^2/NDF : 81.5/64

In: 28.266+/-10.750 χ^2/NDF :50.2/53

Out: 24.725+/-10.485 χ^2/NDF :84.4/58

All: 26.451+/-7.506 χ^2/NDF : 134.6/112

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.961 $\pm$ 0.011 χ^2 /NDF: 717897.0/30

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

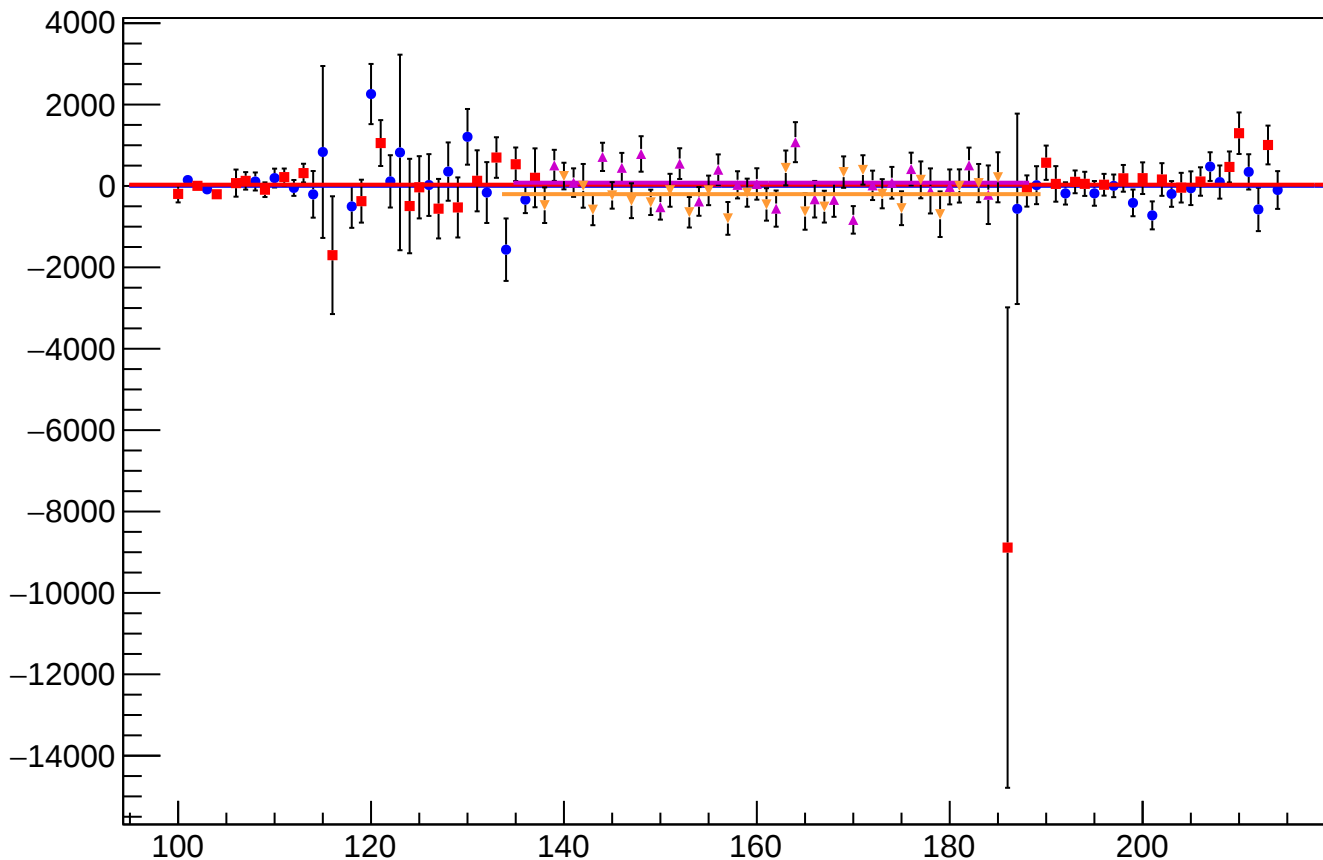
Right: 59.674 $\pm$ 0.007 χ^2 /NDF: 2272267.8/64

In: 62.141 $\pm$ 0.008 χ^2 /NDF: 1177832.6/53

Out: 61.615 $\pm$ 0.007 χ^2 /NDF: 2041443.7/58

All: 61.871 $\pm$ 0.005 χ^2 /NDF: 3221728.1/112

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 3.638 ± 45.682 χ^2/NDF : 35.4/30

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

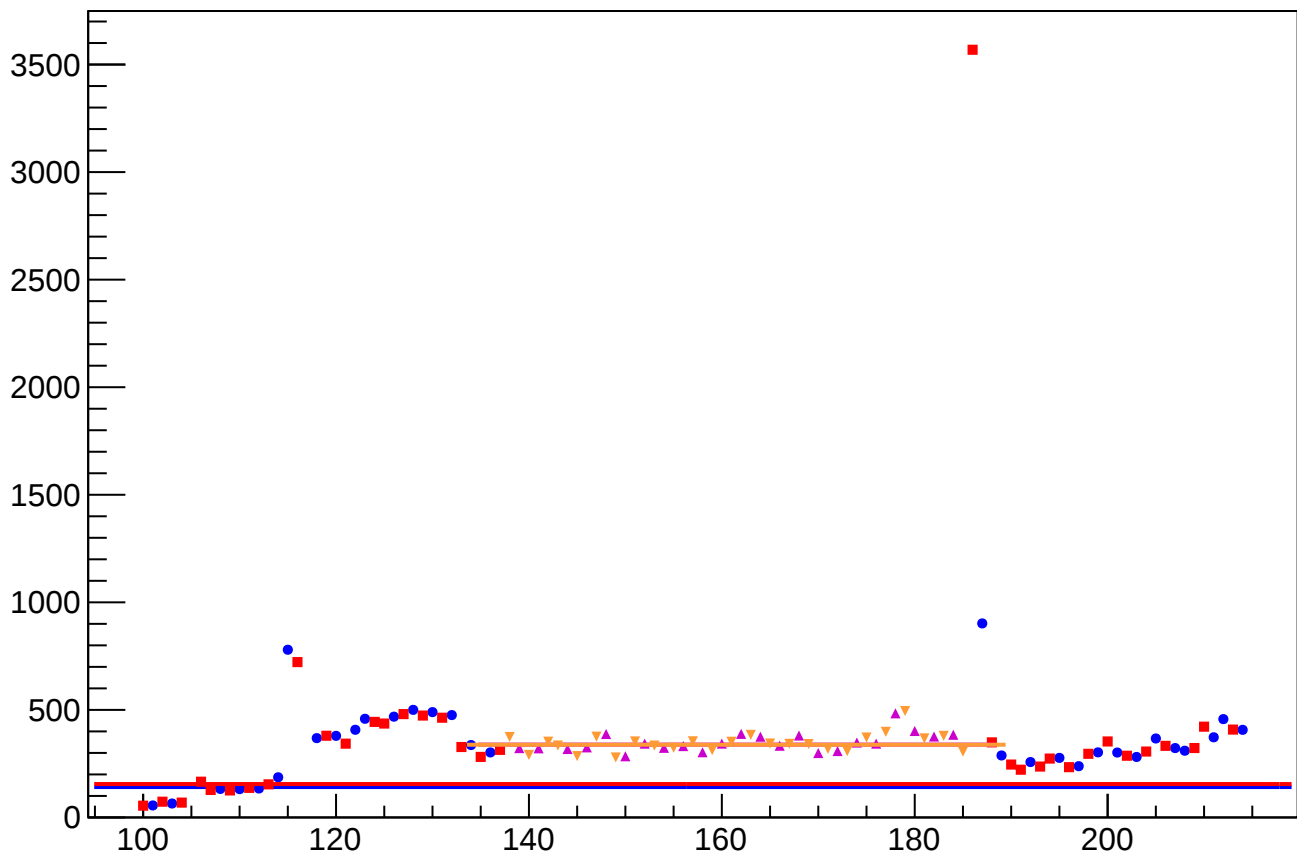
Right: 17.102 ± 32.614 χ^2/NDF : 71.7/64

In: 21.795 ± 39.882 χ^2/NDF : 69.5/53

Out: -28.180 ± 40.195 χ^2/NDF : 62.2/58

All: -2.997 ± 28.311 χ^2/NDF : 132.4/112

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 141.339 $\pm$ 0.032 χ^2 /NDF: 13404210.0/30

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

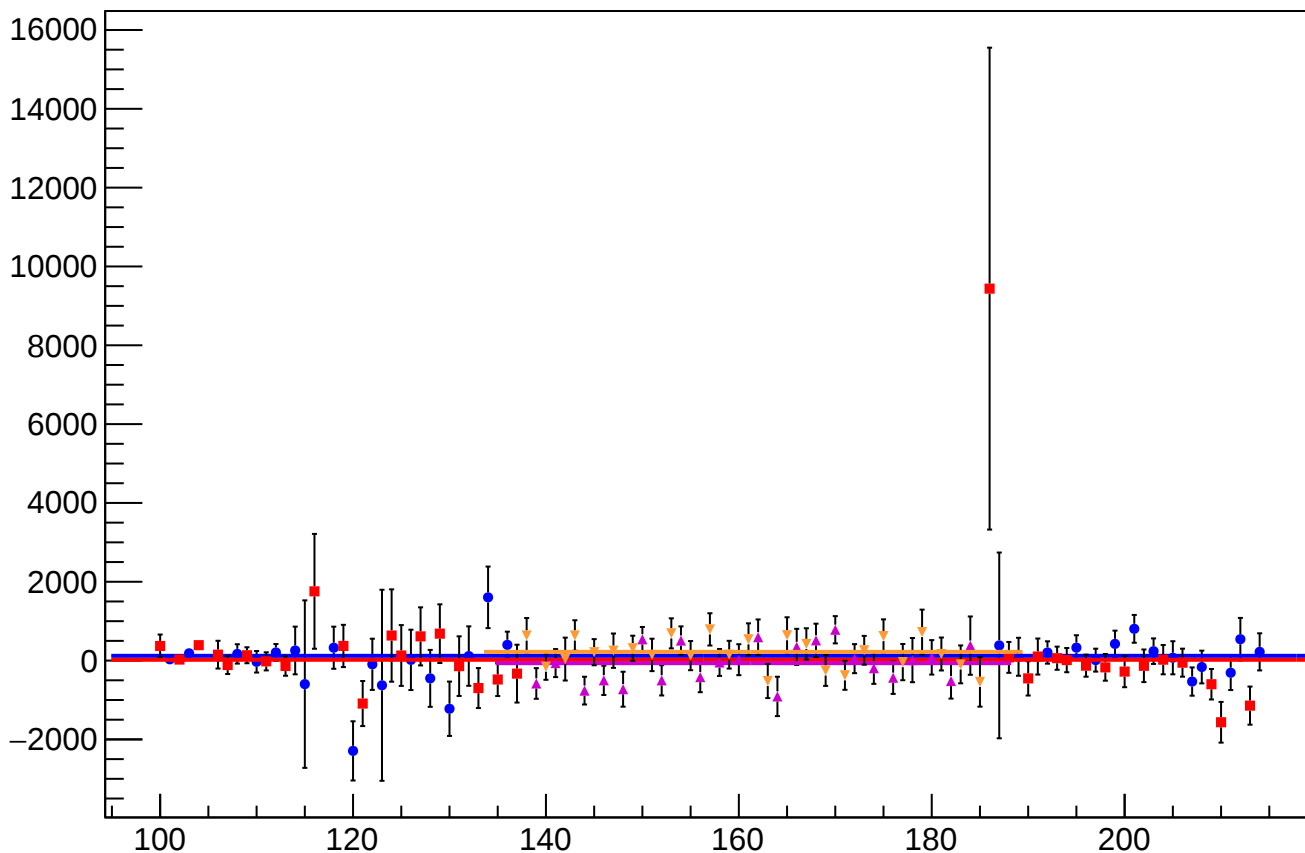
Right: 148.188 $\pm$ 0.023 χ^2 /NDF: 25235306.4/64

In: 188.243 $\pm$ 0.028 χ^2 /NDF: 22707000.0/53

Out: 201.985 $\pm$ 0.028 χ^2 /NDF: 20104732.1/58

All: 195.060 $\pm$ 0.020 χ^2 /NDF: 42929529.6/11

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 120.801 $\pm$ 53.596 χ^2 /NDF: 31.9/30

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: 20.267 $\pm$ 51.836 χ^2 /NDF: 45.9/33

Left In: -65.510 $\pm$ 83.319 χ^2 /NDF:34.0/22

Left: 81.798 $\pm$ 58.085 χ^2 /NDF: 59.7/47

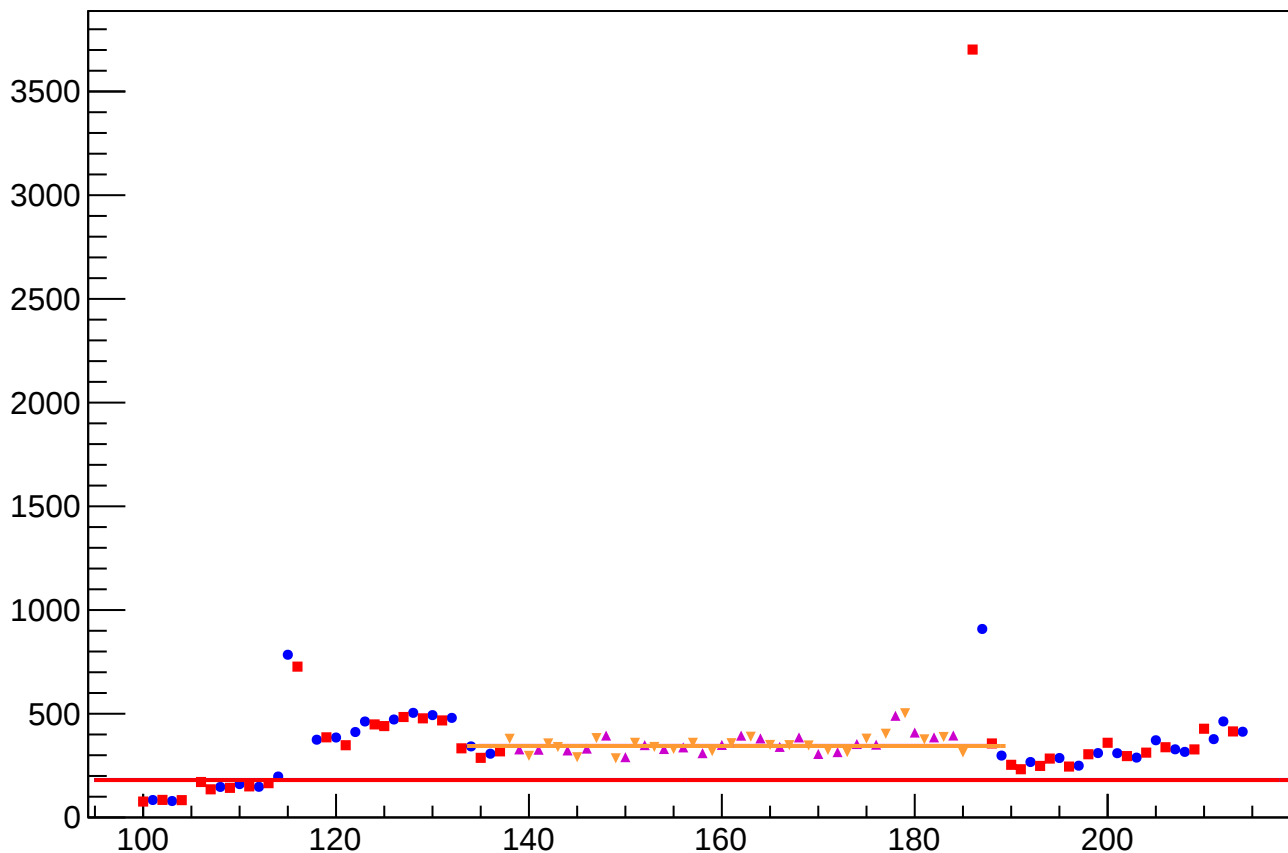
Right: 68.855 $\pm$ 37.260 χ^2 /NDF: 79.6/64

In: 66.271 $\pm$ 45.076 χ^2 /NDF:69.4/53

Out: 78.594 $\pm$ 43.664 χ^2 /NDF:70.0/58

All: 72.628 $\pm$ 31.362 χ^2 /NDF: 139.4/112

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 180.753+/-0.038 χ^2/NDF : 10106820.7/30

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

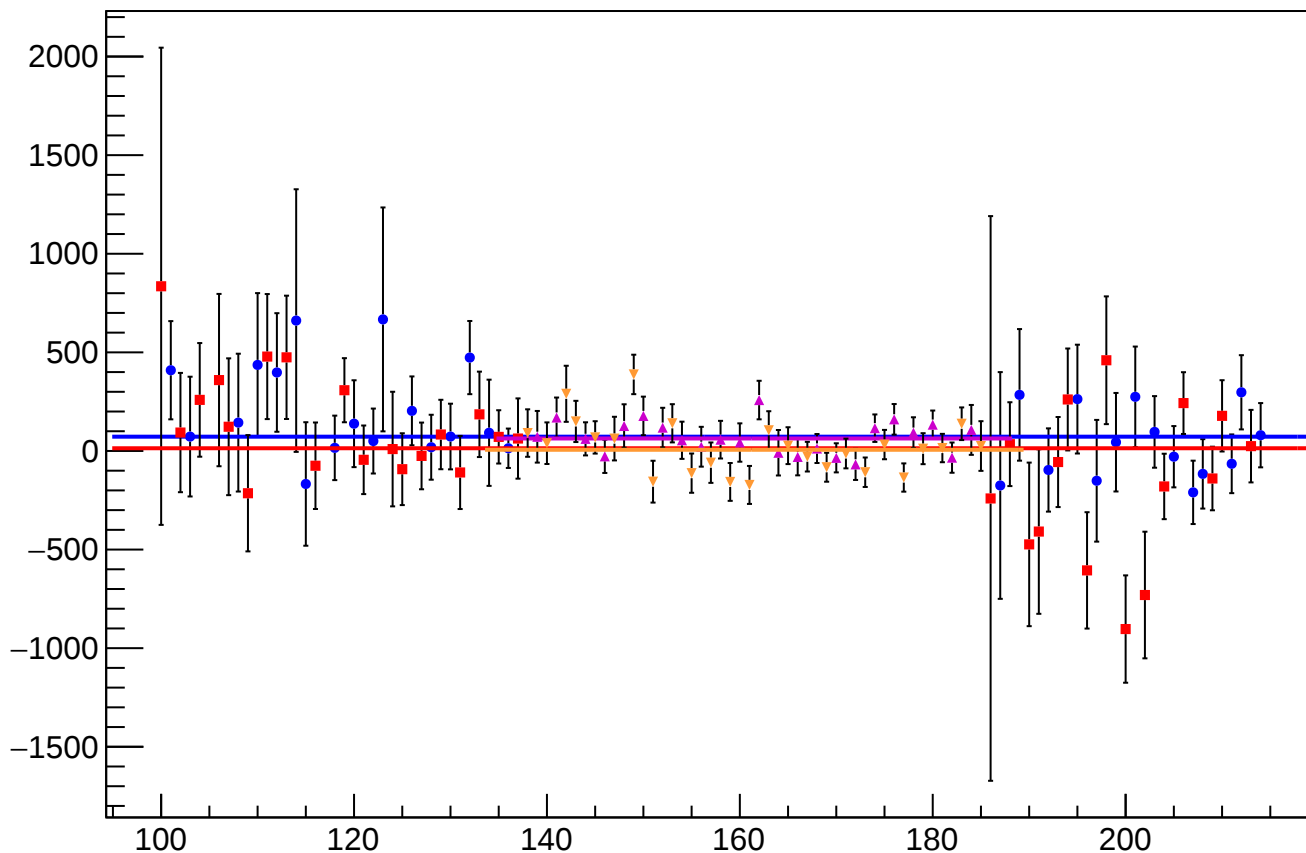
Right: 180.499+/-0.026 χ^2/NDF : 19944704.4/64

In: 228.837+/-0.032 χ^2/NDF : 16034143.6/53

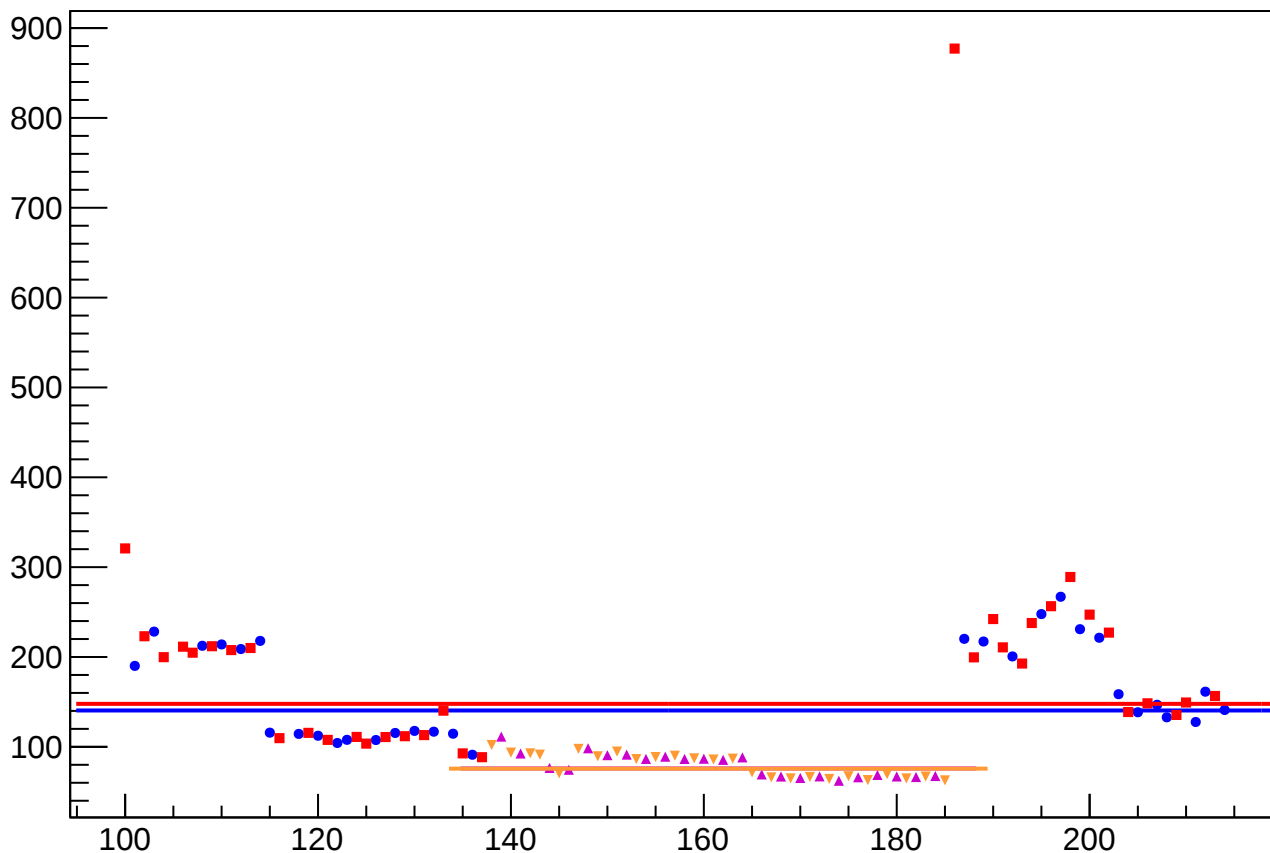
Out: 227.966+/-0.031 χ^2/NDF : 16158272.0/58

All: 228.387+/-0.022 χ^2/NDF : 32192800.9/111

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 140.469 $\pm$ 0.026 χ^2 /NDF: 2910733.6/30

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

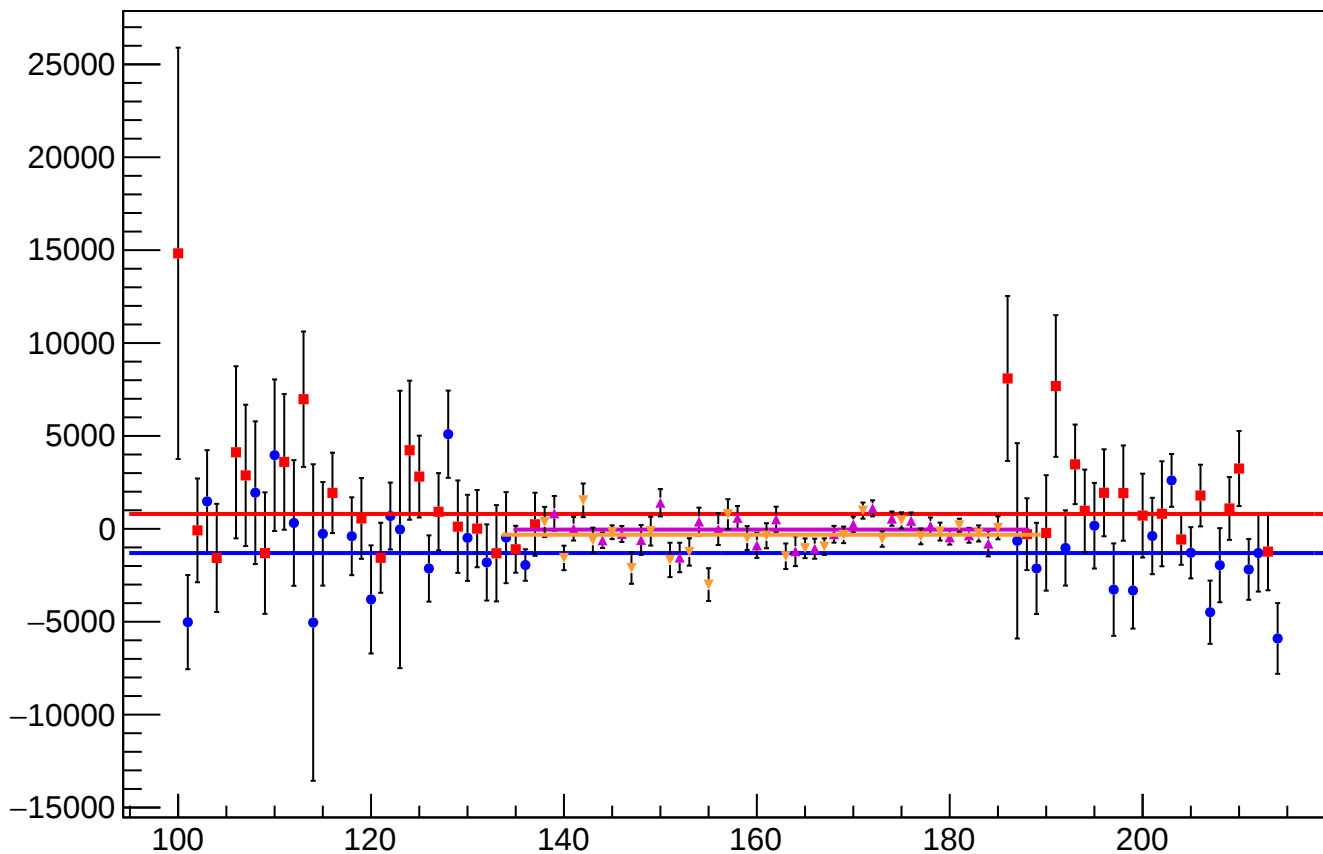
Right: 143.976 $\pm$ 0.019 χ^2 /NDF: 6840371.8/64

In: 89.125 $\pm$ 0.012 χ^2 /NDF:8756893.3/53

Out: 88.769 $\pm$ 0.011 χ^2 /NDF:10683682.9/58

All: 88.944 $\pm$ 0.008 χ^2 /NDF: 19441052.3/112

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1302.853 ± 363.630 $\chi^2/\text{NDF}: 36.4/30$

Left Out: -318.064 ± 108.014 $\chi^2/\text{NDF}: 50.0/24$

Right Out: 801.855 ± 388.095 $\chi^2/\text{NDF}: 26.0/33$

Left In: -40.473 ± 110.252 $\chi^2/\text{NDF}: 34.7/22$

Left: -182.115 ± 77.156 $\chi^2/\text{NDF}: 88.0/47$

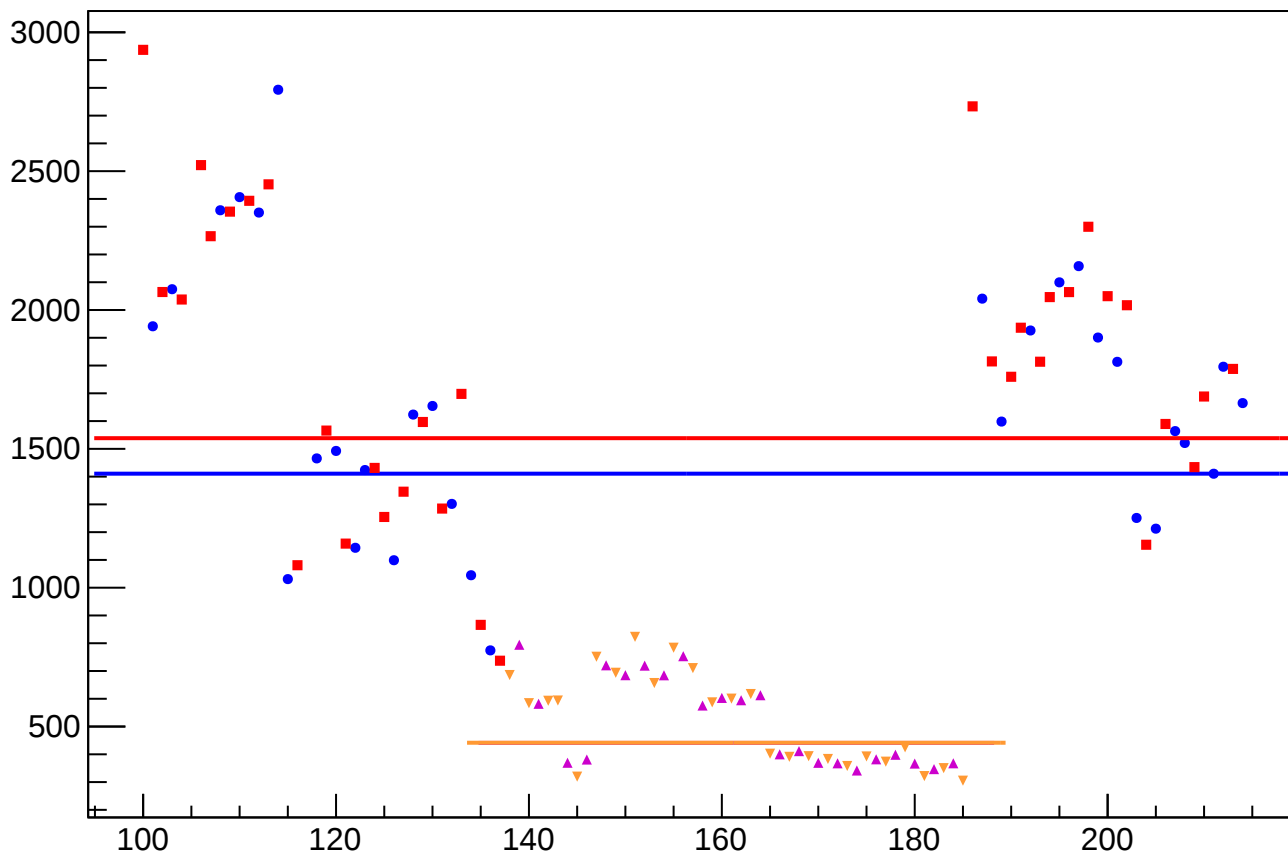
Right: -318.924 ± 265.353 $\chi^2/\text{NDF}: 78.1/64$

In: -146.753 ± 105.509 $\chi^2/\text{NDF}: 82.2/53$

Out: -237.551 ± 104.059 $\chi^2/\text{NDF}: 83.8/58$

All: -192.780 ± 74.088 $\chi^2/\text{NDF}: 166.4/112$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1410.613+/-0.257 χ^2/NDF : 2925150.3/30

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

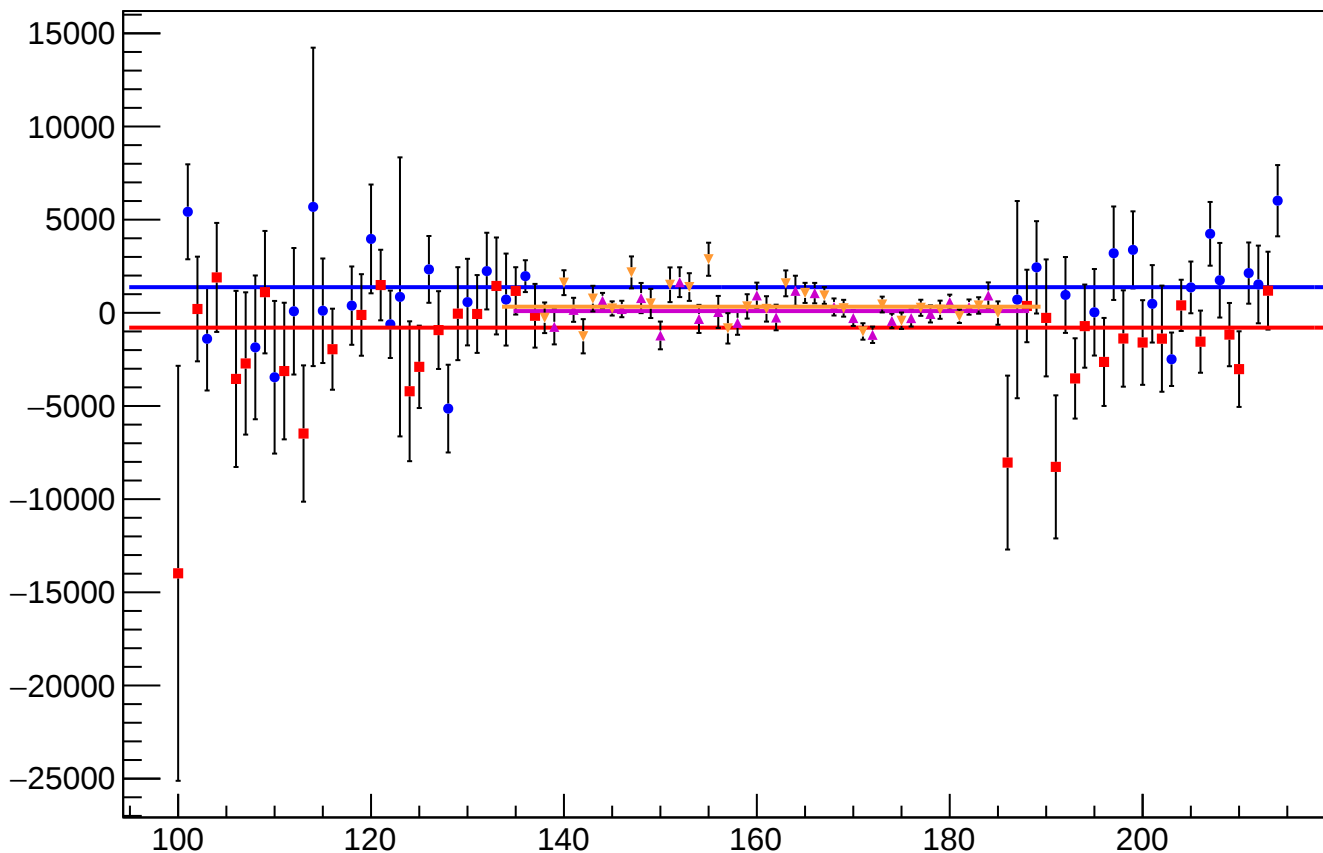
Right: 1470.362+/-0.188 χ^2/NDF : 5999940.4/64

In: 522.640+/-0.075 χ^2/NDF : 18544947.3/53

Out: 520.531+/-0.074 χ^2/NDF : 20952166.3/58

All: 521.571+/-0.052 χ^2/NDF : 39497518.5/111

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1376.737 $\pm$ 365.859 χ^2 /NDF: 35.7/30

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

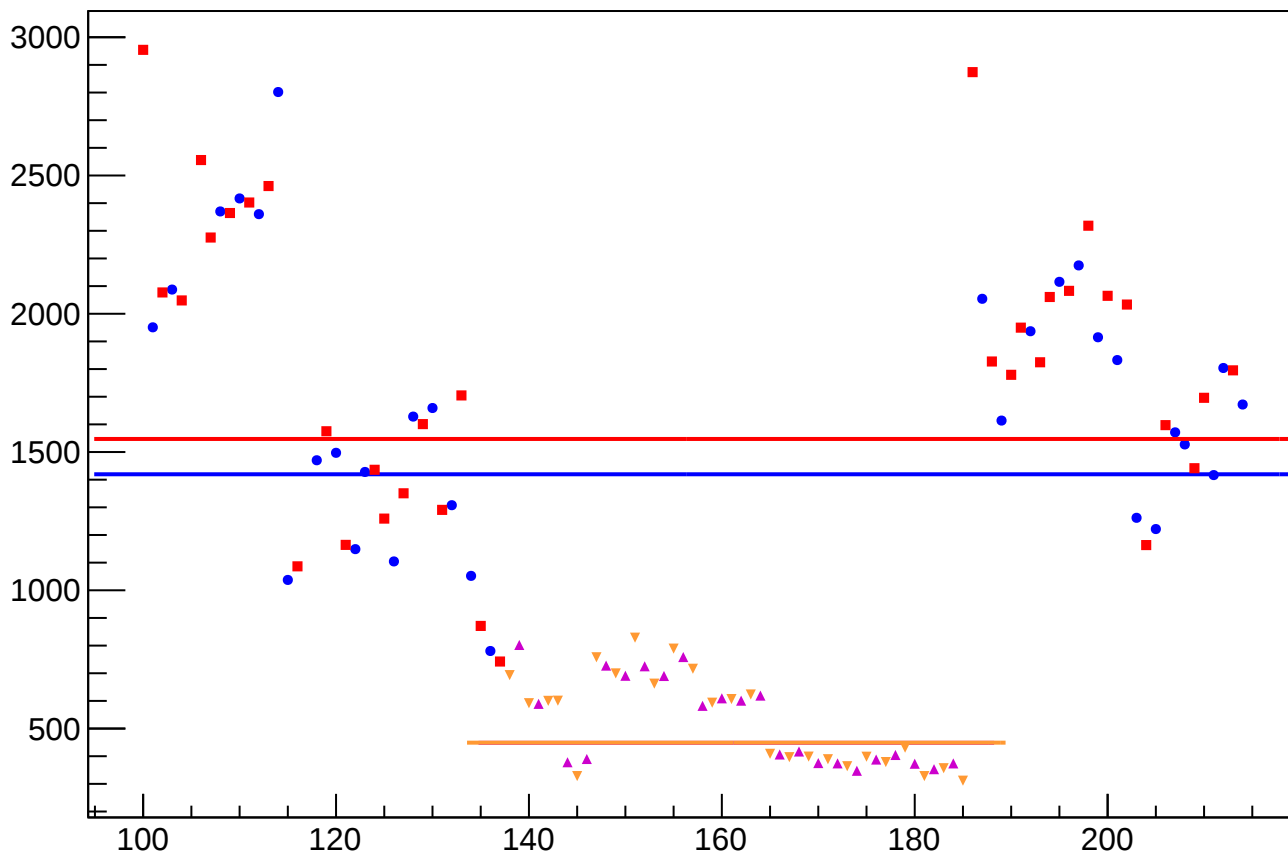
Right: 361.458 $\pm$ 266.984 χ^2 /NDF: 77.5/64

In: 203.208 $\pm$ 107.059 χ^2 /NDF: 80.3/53

Out: 246.444 $\pm$ 105.583 χ^2 /NDF: 80.7/58

All: 225.127 $\pm$ 75.175 χ^2 /NDF: 161.1/112

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1419.556 $\pm$ 0.259 χ^2 /NDF: 2913863.4/30

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

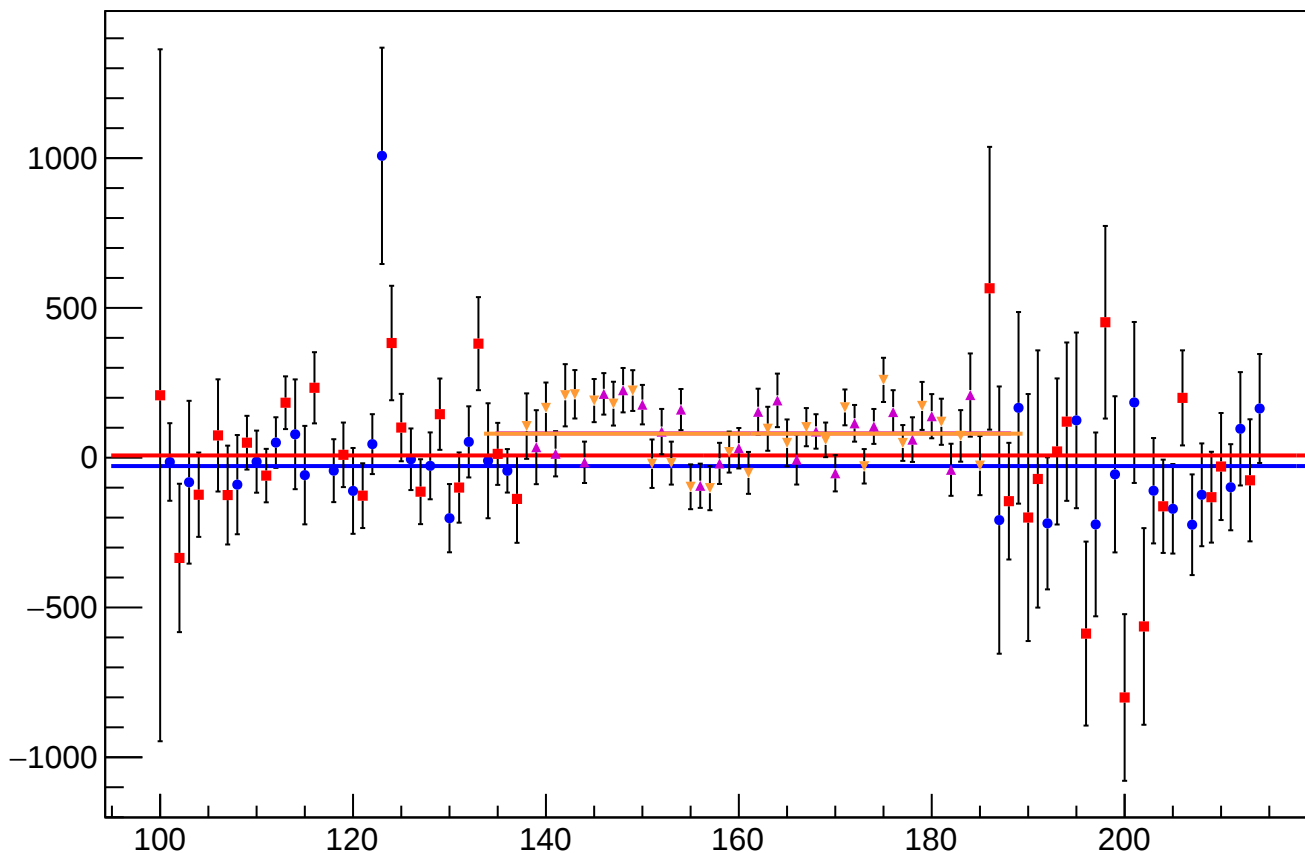
Right: 1479.252 $\pm$ 0.189 χ^2 /NDF: 6006069.0/64

In: 531.474 $\pm$ 0.076 χ^2 /NDF:18339251.2/53

Out: 529.308 $\pm$ 0.075 χ^2 /NDF:20732237.1/58

All: 530.376 $\pm$ 0.053 χ^2 /NDF: 39071903.1/11

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -27.964 ± 25.515 $\chi^2/\text{NDF}: 20.6/30$

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 $\chi^2/\text{NDF}: 83.8/47$

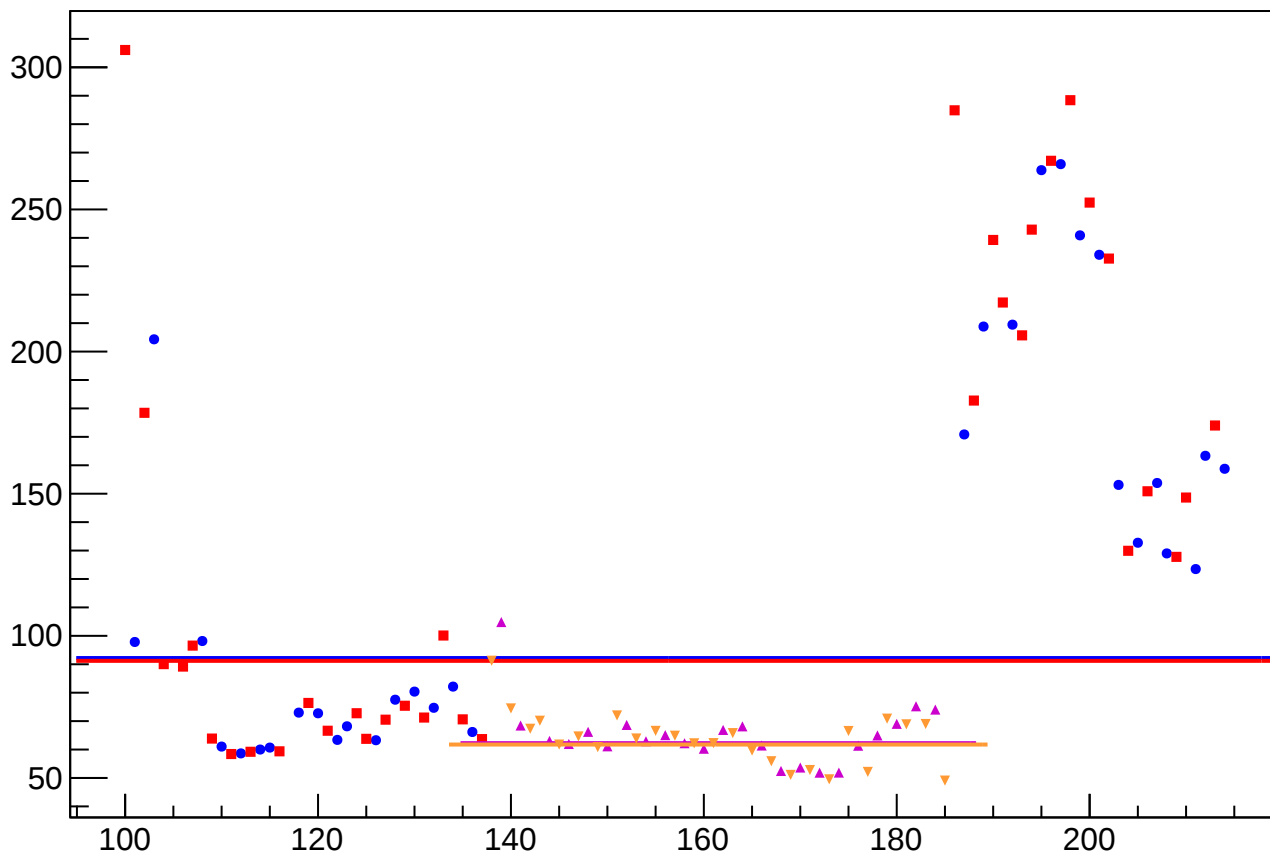
Right: -10.055 ± 17.952 $\chi^2/\text{NDF}: 73.2/64$

In: 52.836 ± 12.998 $\chi^2/\text{NDF}: 69.5/53$

Out: 61.993 ± 12.636 $\chi^2/\text{NDF}: 106.3/58$

All: 57.544 ± 9.060 $\chi^2/\text{NDF}: 176.1/112$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 92.188 $\pm$ 0.018 χ^2 /NDF: 6599834.3/30

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

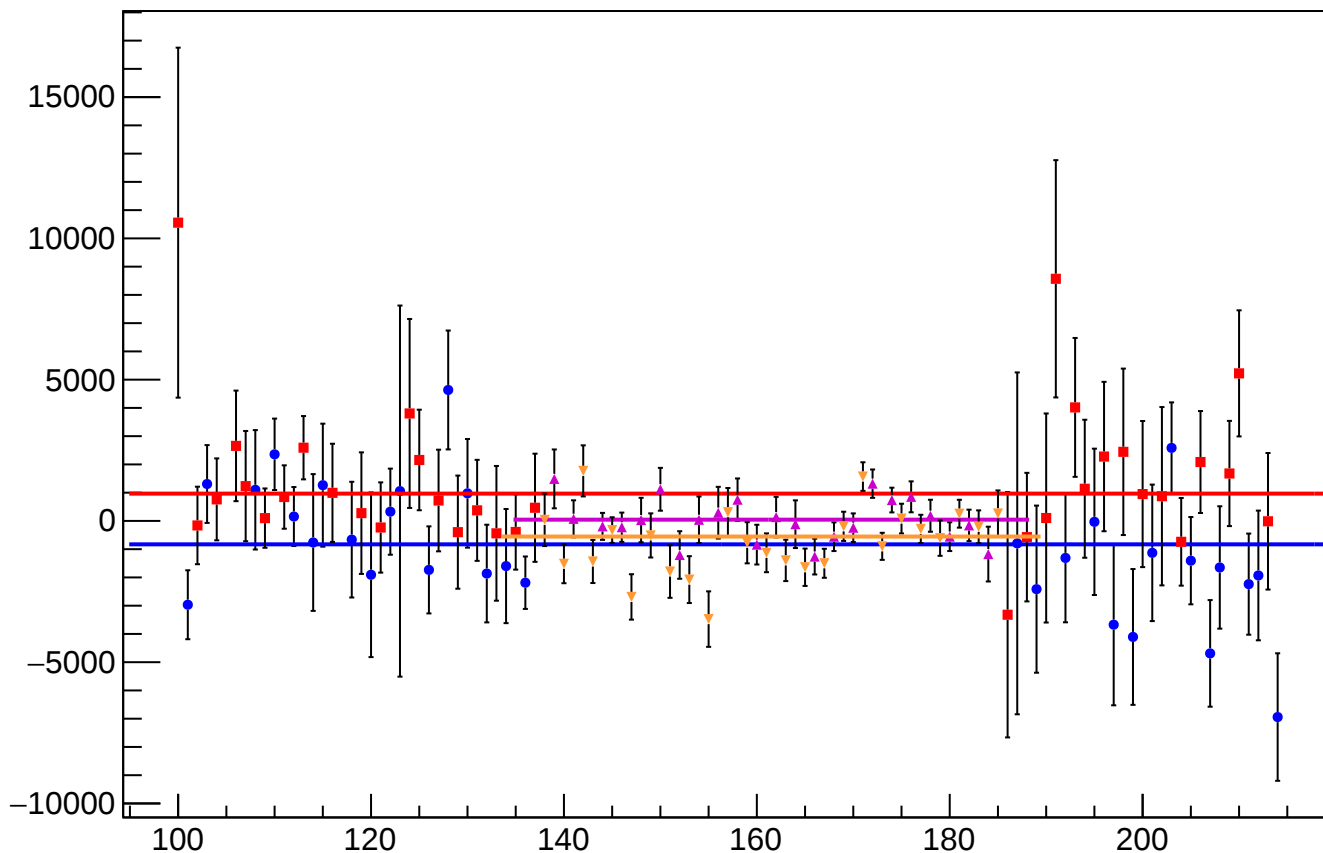
Right: 91.692 $\pm$ 0.013 χ^2 /NDF: 14208567.9/64

In: 70.020 $\pm$ 0.009 χ^2 /NDF: 9229839.4/53

Out: 69.127 $\pm$ 0.009 χ^2 /NDF: 10289843.4/58

All: 69.561 $\pm$ 0.006 χ^2 /NDF: 19524537.7/112

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -828.736 ± 319.997 $\chi^2/\text{NDF}: 46.3/30$

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 $\chi^2/\text{NDF}: 105.7/47$

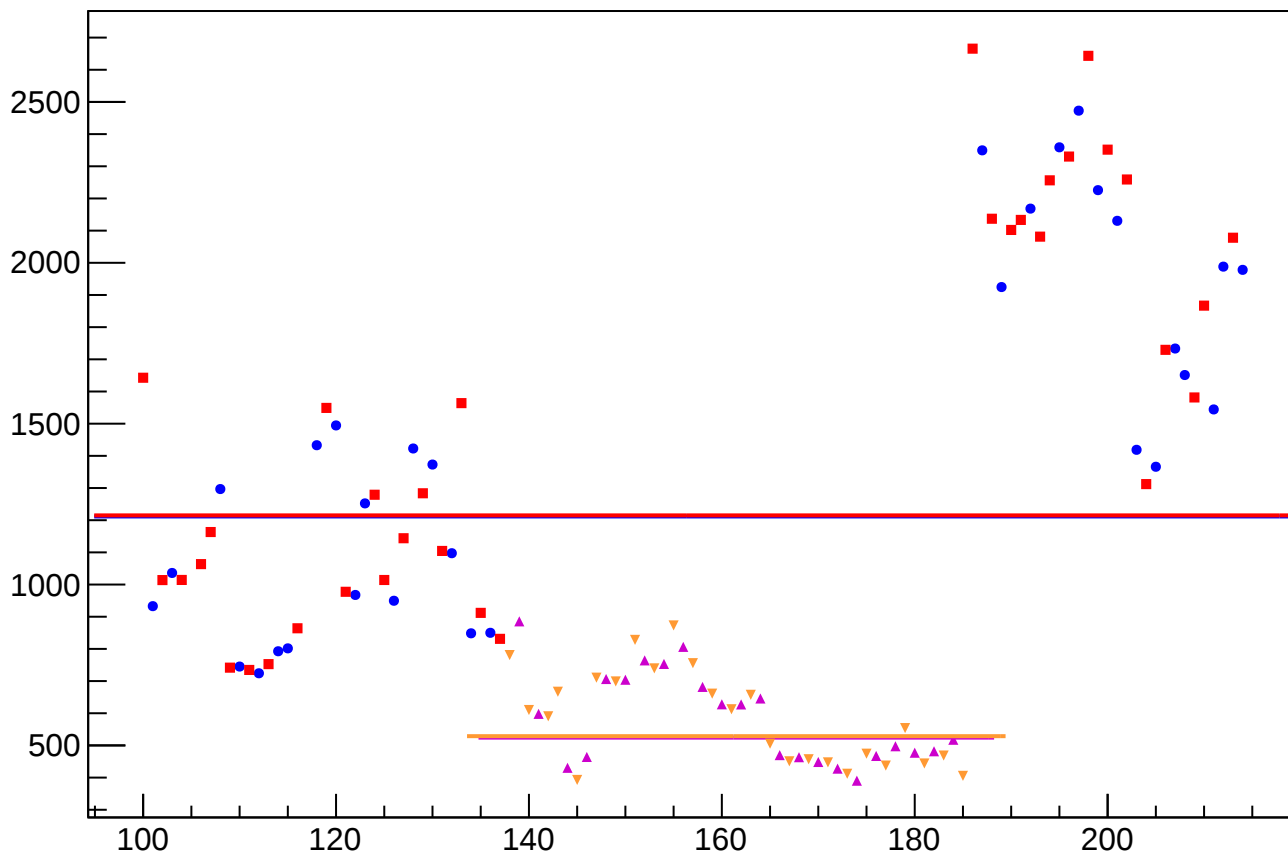
Right: 74.286 ± 225.594 $\chi^2/\text{NDF}: 85.1/64$

In: -77.660 ± 119.719 $\chi^2/\text{NDF}: 82.3/53$

Out: -343.704 ± 117.931 $\chi^2/\text{NDF}: 107.9/58$

All: -212.684 ± 84.015 $\chi^2/\text{NDF}: 192.7/112$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1211.637 $\pm$ 0.226 χ^2 /NDF: 4328097.6/30

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

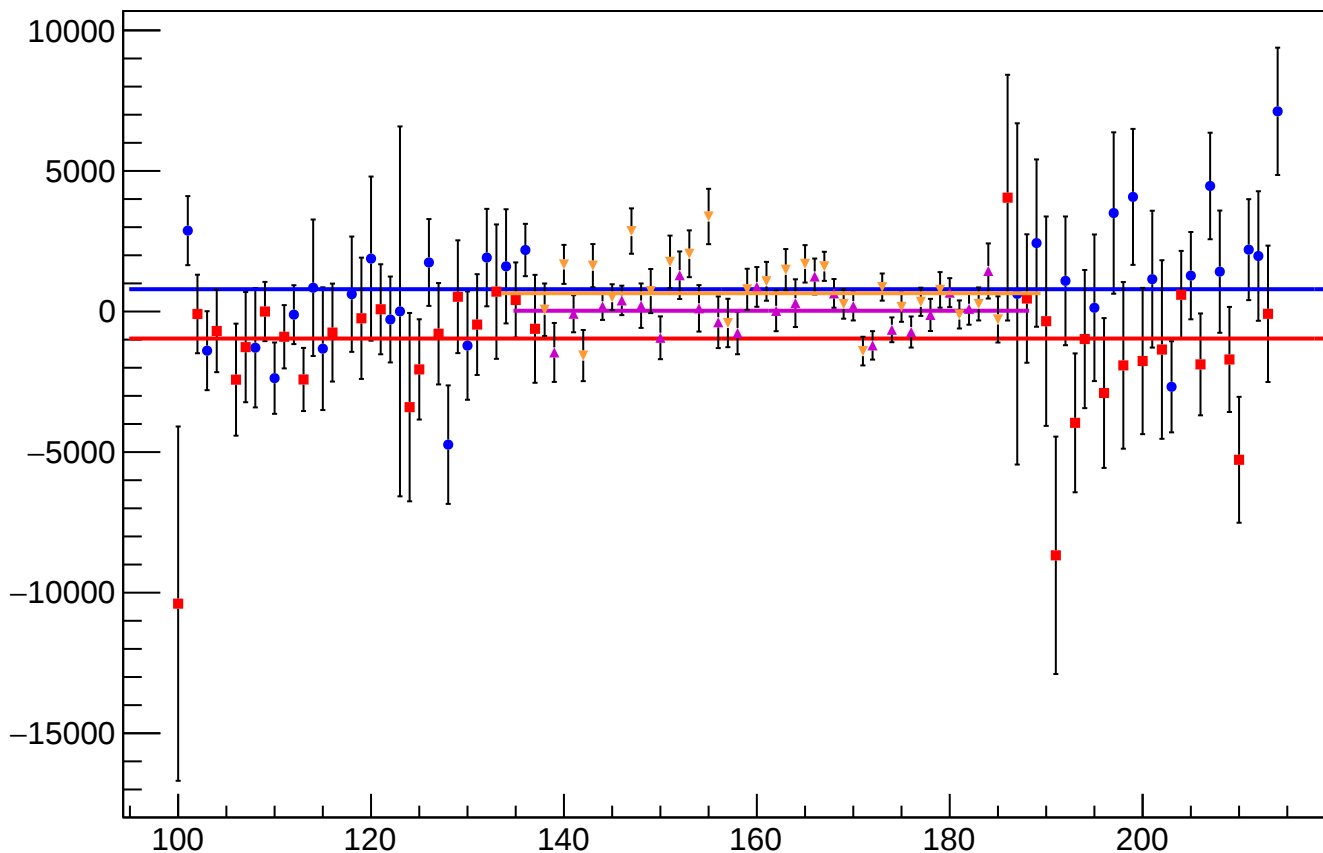
Right: 1213.314 $\pm$ 0.160 χ^2 /NDF: 9465720.5/64

In: 620.480 $\pm$ 0.085 χ^2 /NDF:13980896.4/53

Out: 623.064 $\pm$ 0.083 χ^2 /NDF:15150285.6/58

All: 621.791 $\pm$ 0.059 χ^2 /NDF: 29131654.8/11

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 793.730+/-321.488 χ^2/NDF : 46.4/30

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

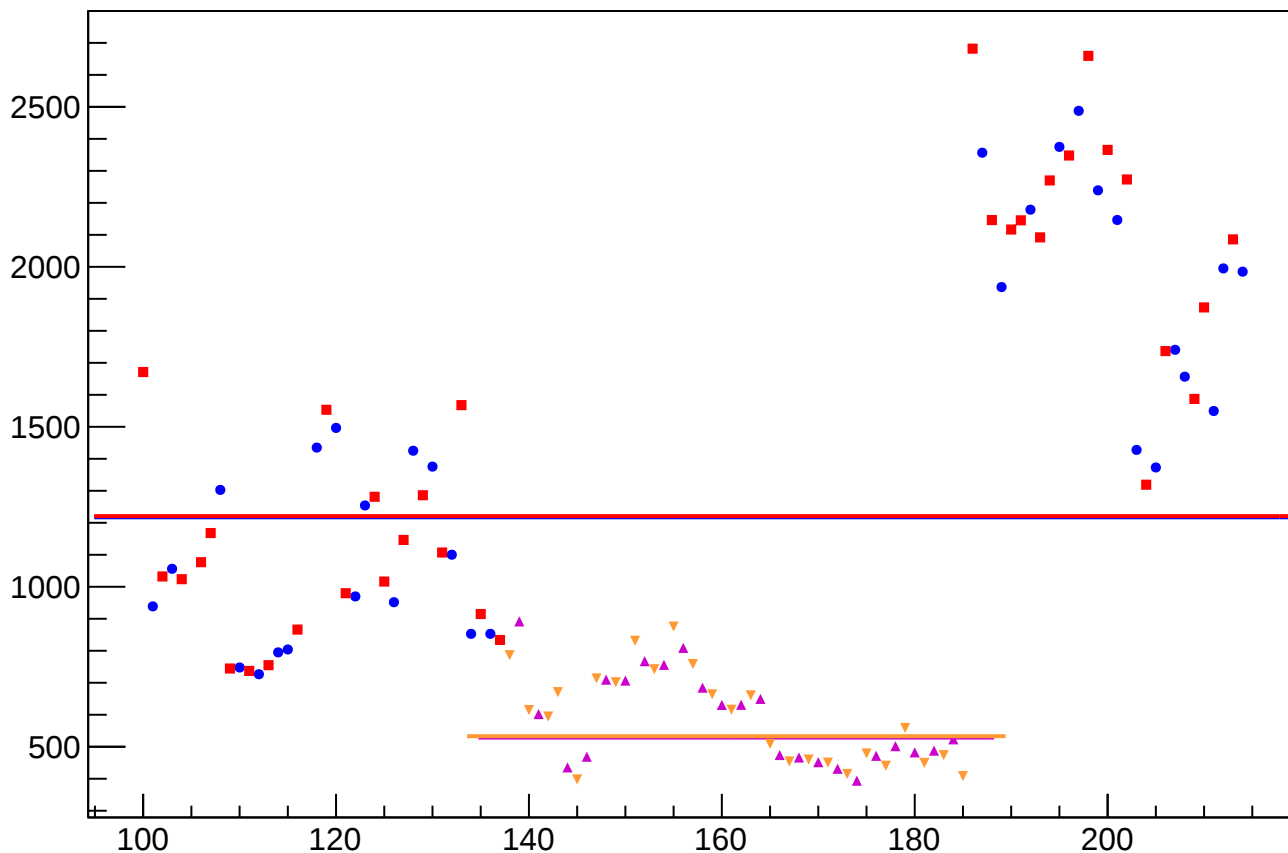
Right: -88.763+/-226.687 χ^2/NDF : 83.3/64

In: 135.348+/-120.620 χ^2/NDF : 79.7/53

Out: 428.825+/-118.798 χ^2/NDF : 105.0/58

All: 284.320+/-84.640 χ^2/NDF : 187.7/112

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1217.187 $\pm$ 0.227 χ^2 /NDF: 4332920.8/30

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

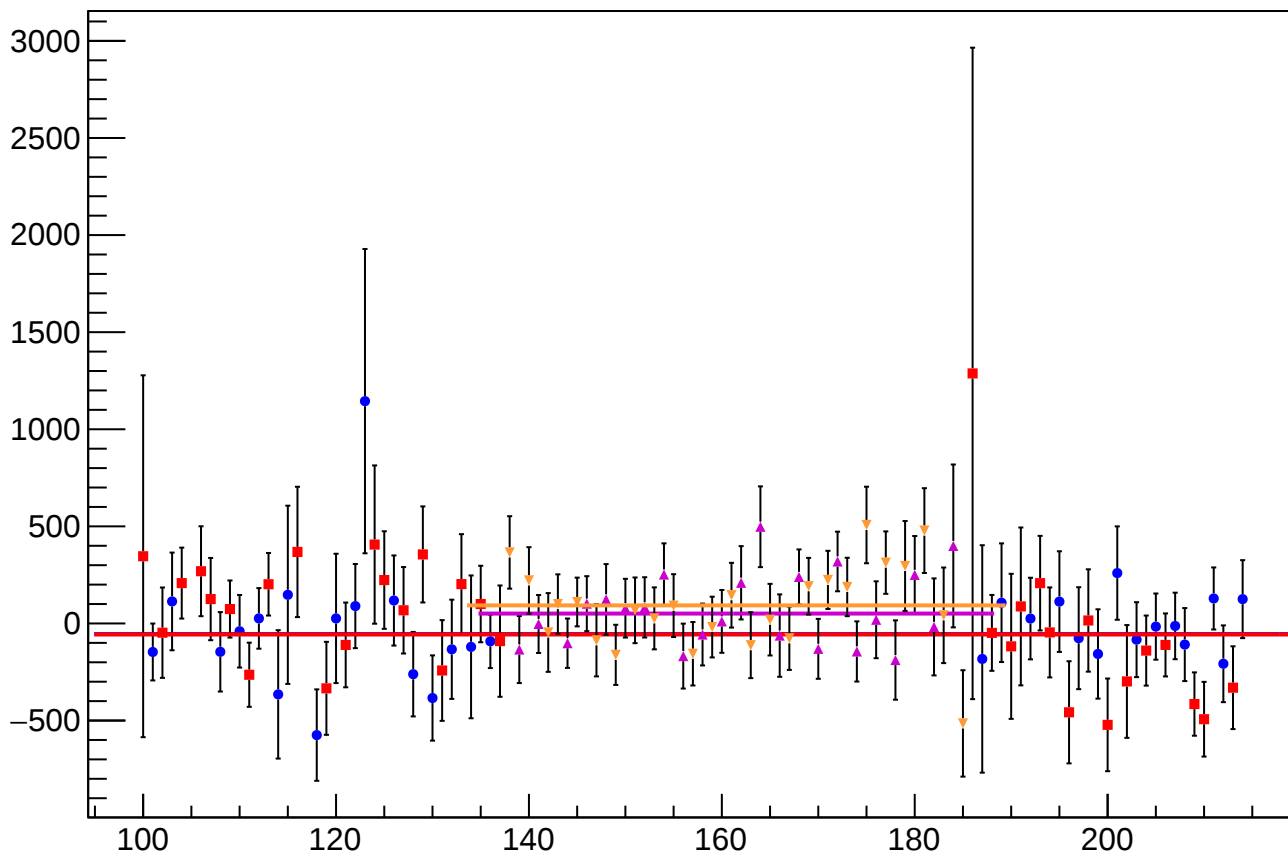
Right: 1218.992 $\pm$ 0.160 χ^2 /NDF: 9478042.6/64

In: 625.614 $\pm$ 0.085 χ^2 /NDF:13902926.5/53

Out: 628.028 $\pm$ 0.084 χ^2 /NDF:15073860.8/58

All: 626.839 $\pm$ 0.060 χ^2 /NDF: 28977193.8/11

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -55.020 ± 38.611 χ^2/NDF : 19.8/30

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: -56.315 ± 38.502 χ^2/NDF : 41.6/33

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

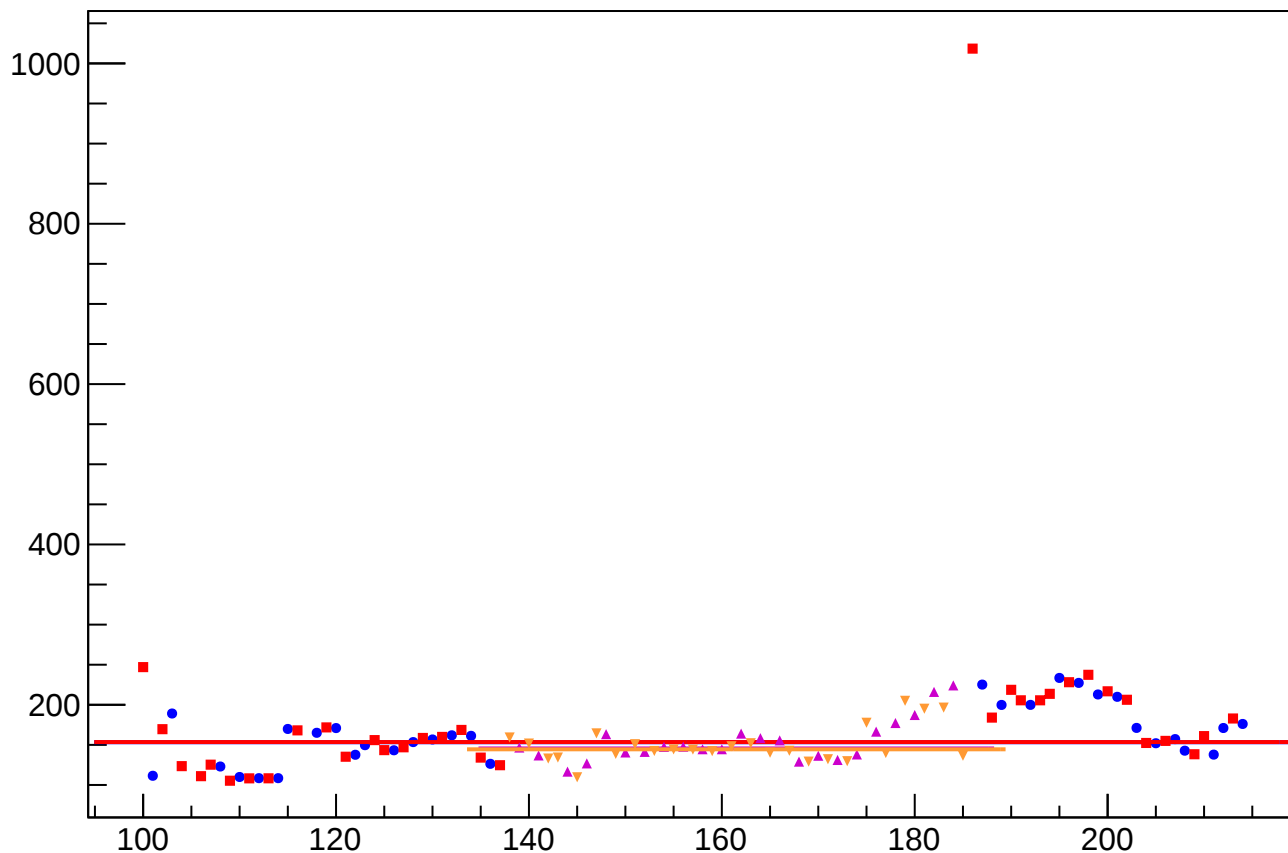
Right: -55.669 ± 27.263 χ^2/NDF : 61.3/64

In: 2.703 ± 26.045 χ^2/NDF : 47.3/53

Out: 27.459 ± 25.508 χ^2/NDF : 79.5/58

All: 15.339 ± 18.224 χ^2/NDF : 127.2/112

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 153.308 $\pm$ 0.027 χ^2 /NDF: 1520142.1/30

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

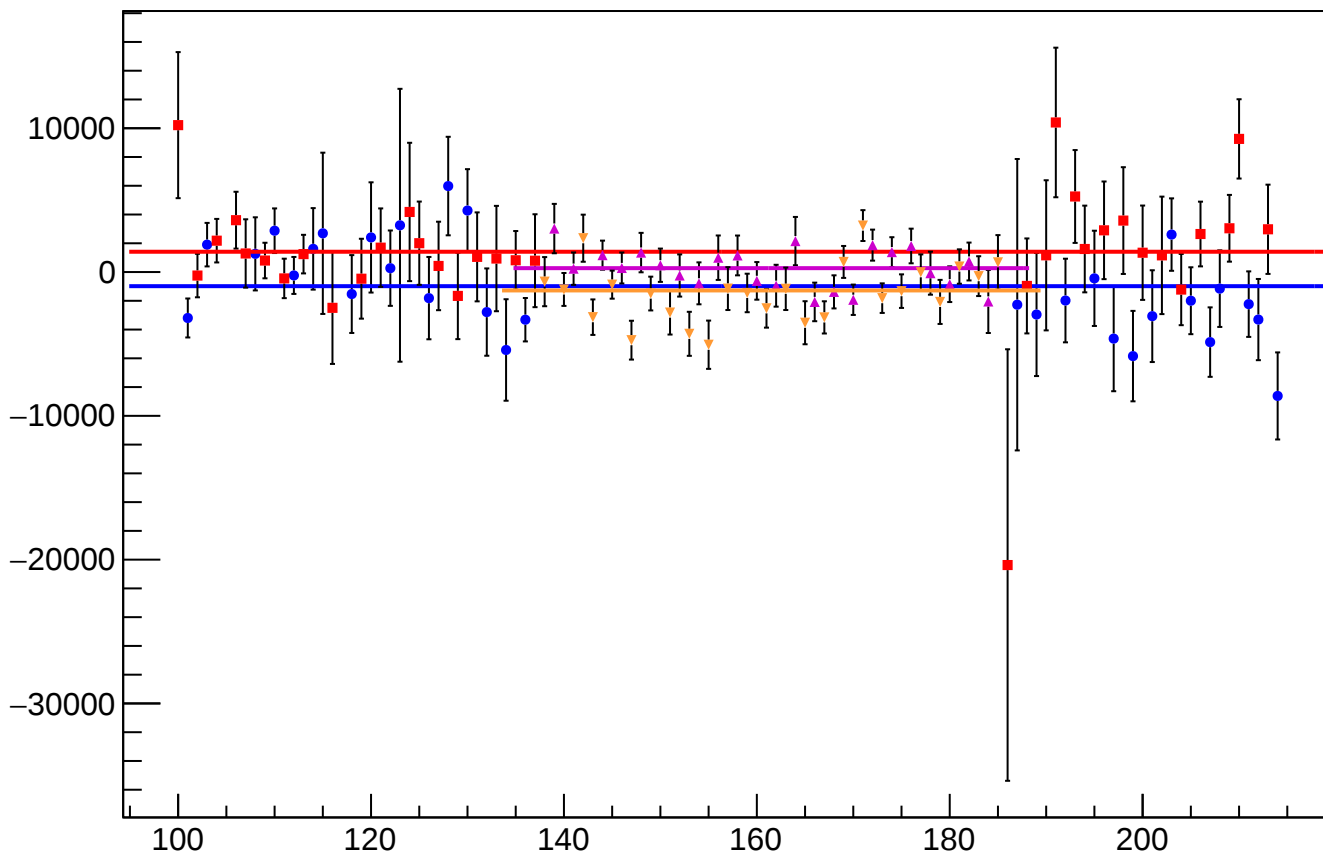
Right: 153.416 $\pm$ 0.019 χ^2 /NDF: 3842811.3/64

In: 149.072 $\pm$ 0.018 χ^2 /NDF: 2207848.2/53

Out: 148.447 $\pm$ 0.018 χ^2 /NDF: 3055109.1/58

All: 148.753 $\pm$ 0.013 χ^2 /NDF: 5263544.4/112

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -982.739+/-436.044 χ^2/NDF : 44.3/30

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

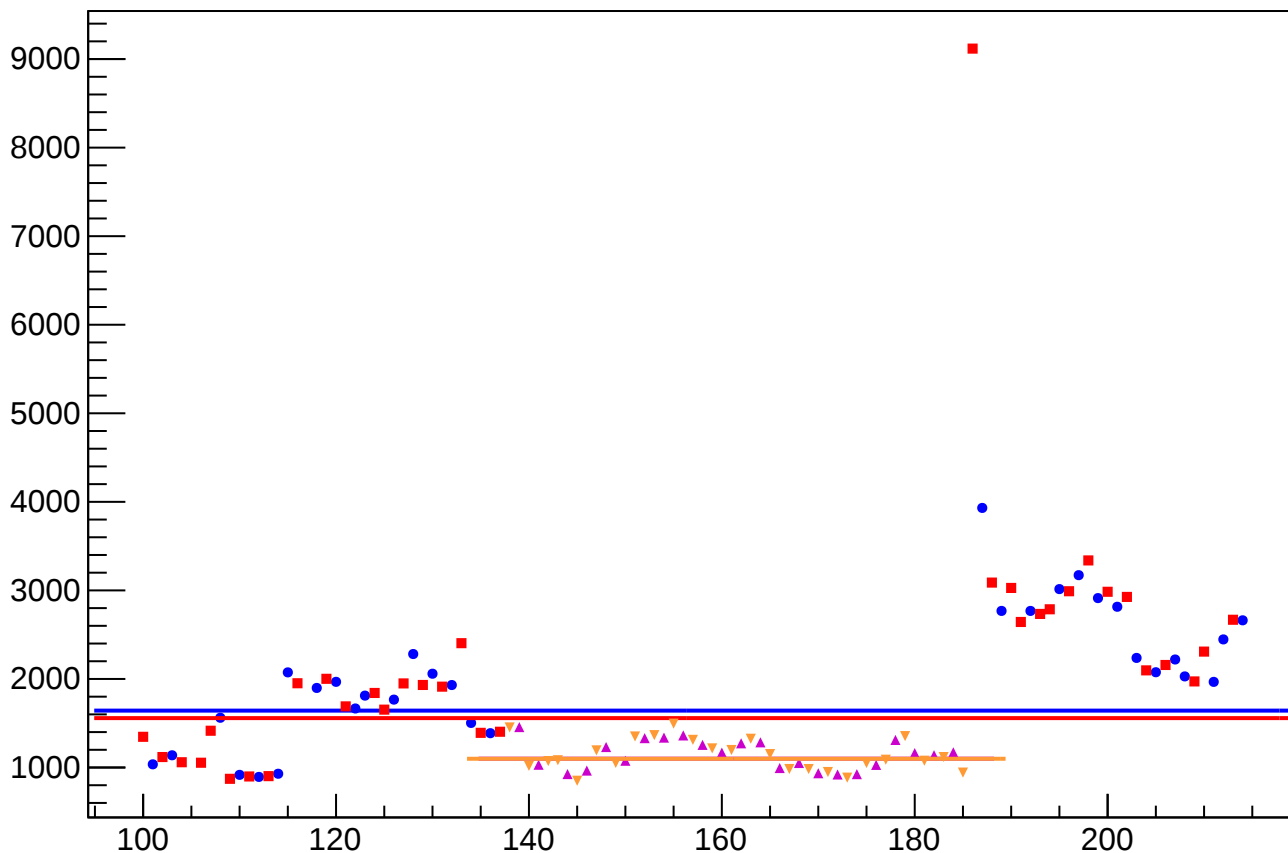
Right: 271.123+/-300.954 χ^2/NDF : 88.9/64

In: -70.246+/-227.235 χ^2/NDF : 74.6/53

Out: -526.056+/-220.036 χ^2/NDF : 114.9/58

All: -305.485+/-158.073 χ^2/NDF : 191.6/112

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1642.547 $\pm$ 0.308 χ^2 /NDF: 4702284.2/30

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

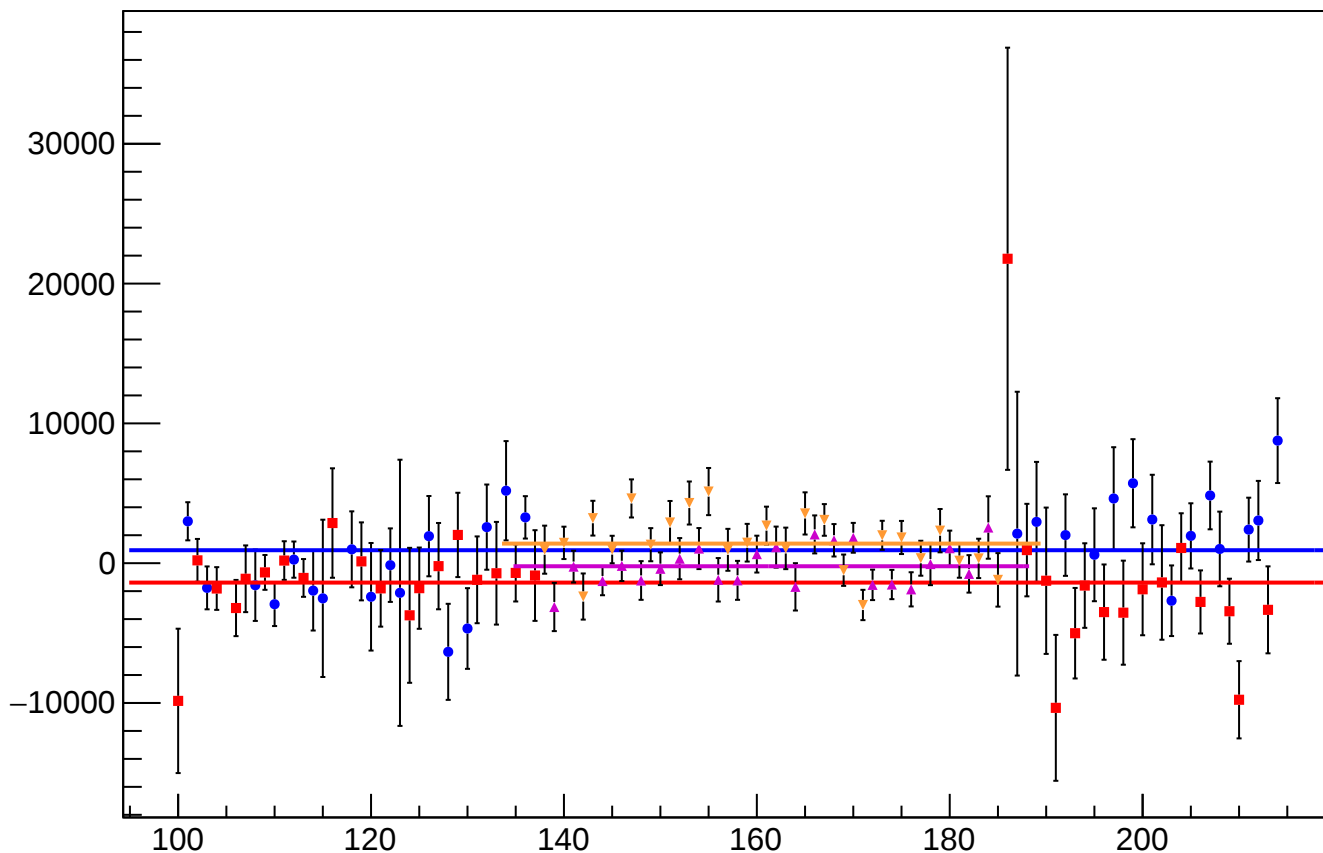
Right: 1598.164 $\pm$ 0.213 χ^2 /NDF: 11026712.9/64

In: 1247.040 $\pm$ 0.161 χ^2 /NDF: 7641066.9/53

Out: 1227.354 $\pm$ 0.156 χ^2 /NDF: 8862434.4/58

All: 1236.880 $\pm$ 0.112 χ^2 /NDF: 16511248.0/112

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 927.436+/-438.365 χ^2/NDF : 44.3/30

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

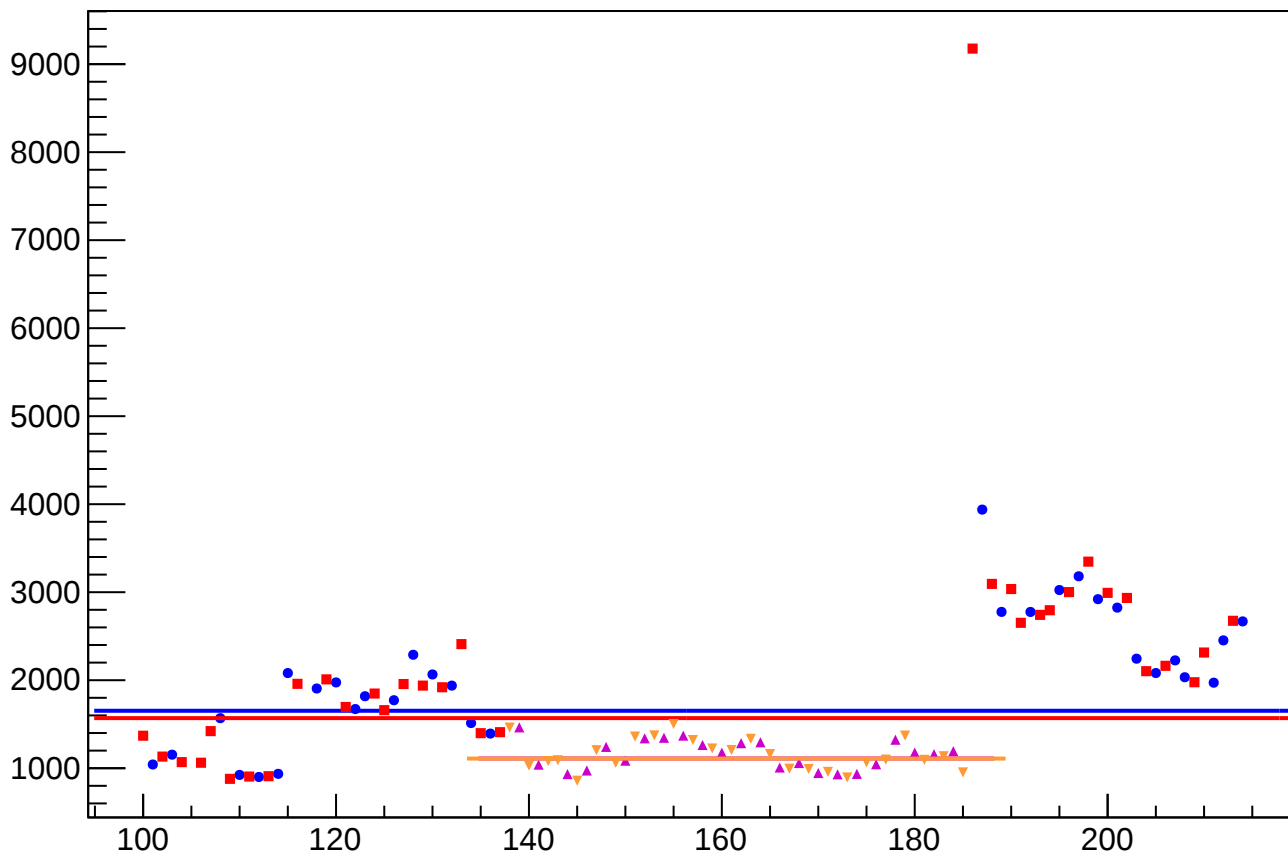
Right: -283.916+/-302.724 χ^2/NDF : 88.2/64

In: 94.072+/-229.183 χ^2/NDF : 74.3/53

Out: 616.219+/-221.960 χ^2/NDF : 113.4/58

All: 363.503+/-159.442 χ^2/NDF : 190.4/112

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1652.747+/-0.310 χ^2/NDF : 4653540.8/30

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

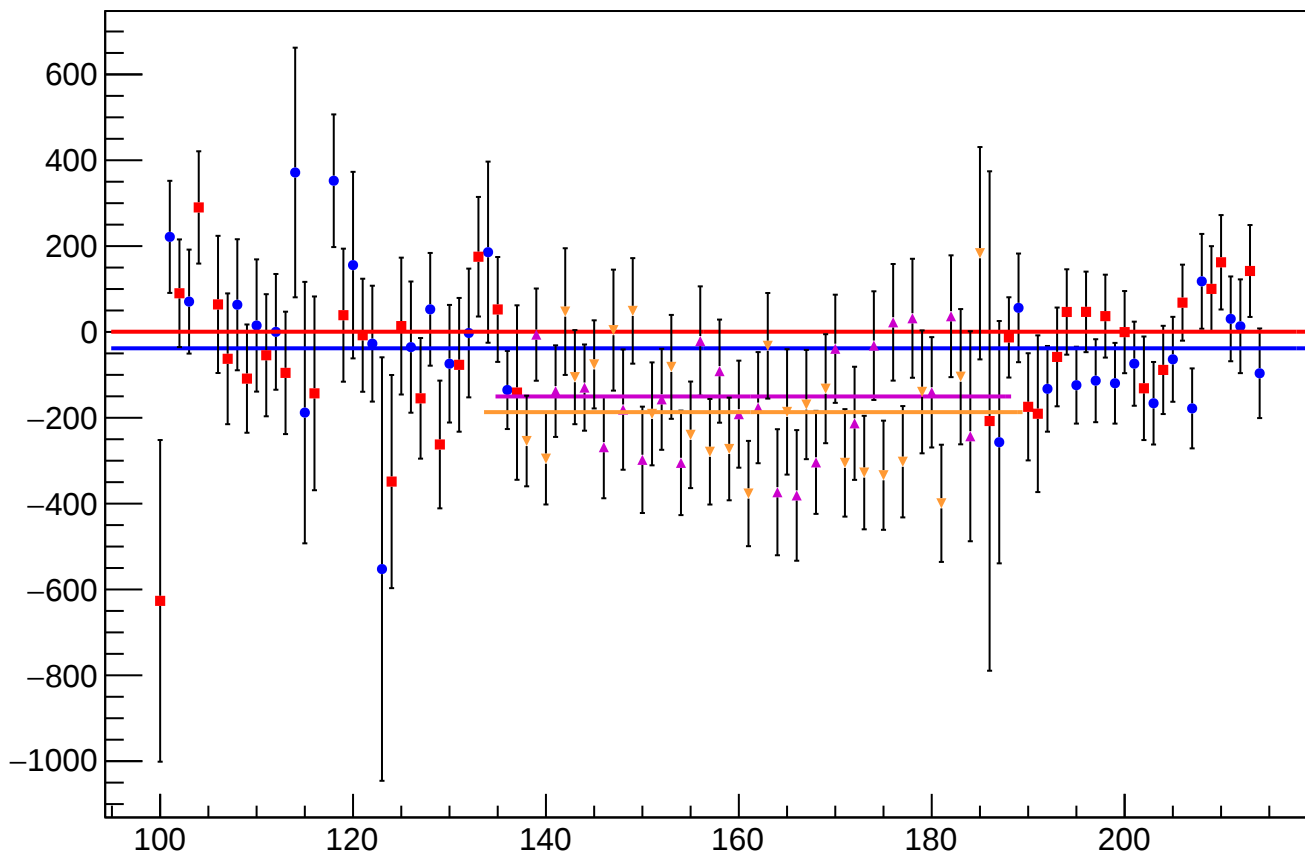
Right: 1609.035+/-0.214 χ^2/NDF : 10915524.0/64

In: 1258.744+/-0.162 χ^2/NDF : 7546888.5/53

Out: 1238.960+/-0.157 χ^2/NDF : 8768139.6/58

All: 1248.535+/-0.113 χ^2/NDF : 16322718.5/113

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -38.120 ± 22.016 χ^2/NDF : 30.3/30

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: 0.529 ± 21.788 χ^2/NDF : 30.7/33

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

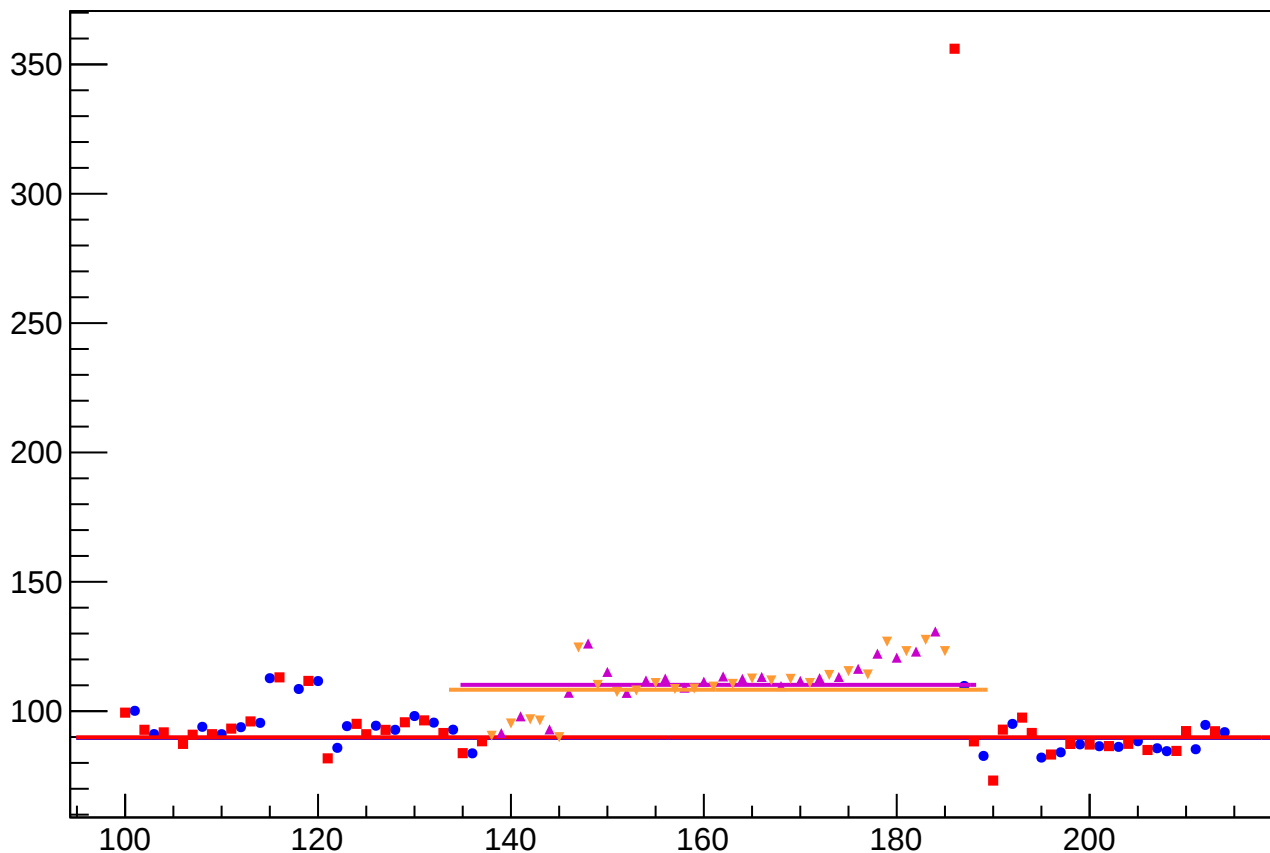
Right: -18.593 ± 15.486 χ^2/NDF : 62.6/64

In: -84.049 ± 16.920 χ^2/NDF : 61.7/53

Out: -79.226 ± 16.512 χ^2/NDF : 88.8/58

All: -81.579 ± 11.817 χ^2/NDF : 150.4/112

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.668 $\pm$ 0.016 χ^2 /NDF: 170672.5/30

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

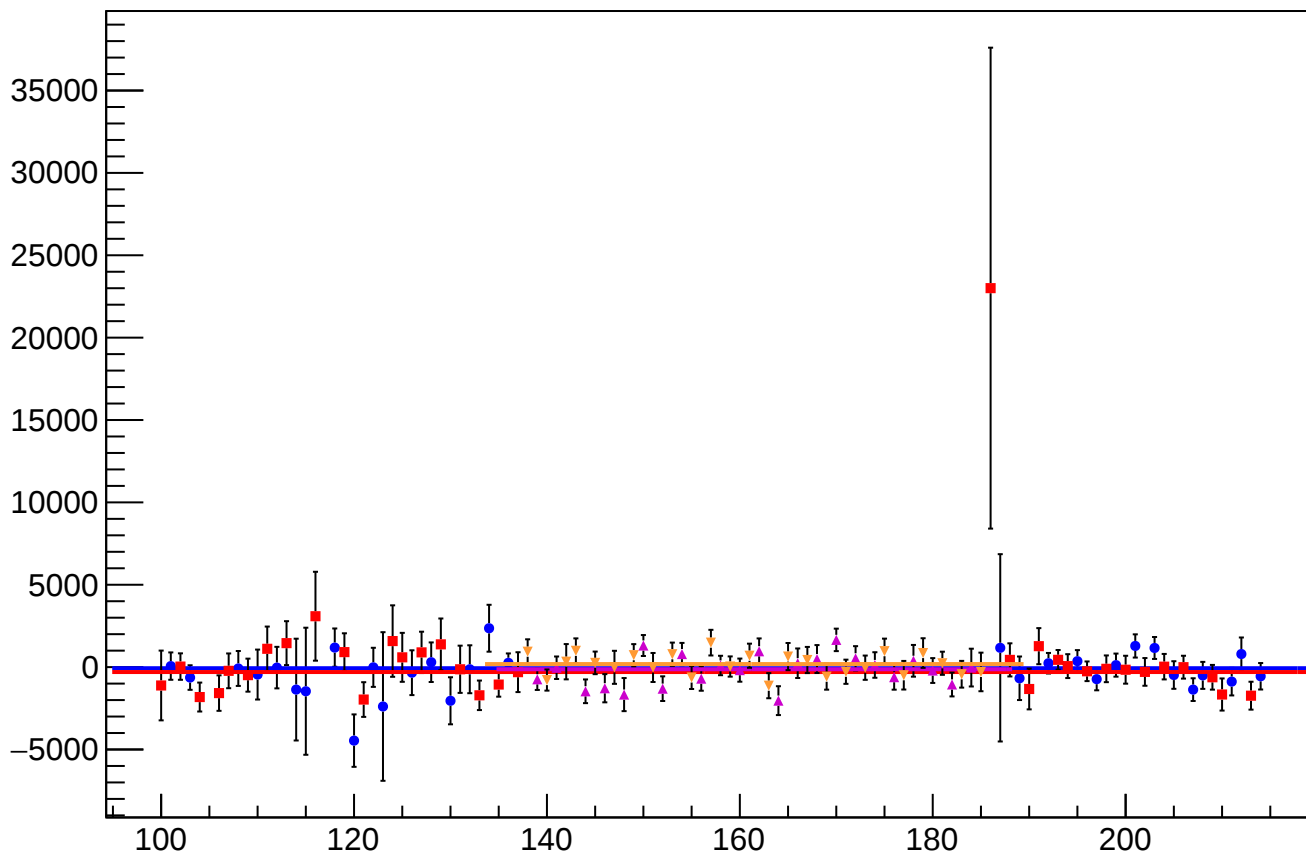
Right: 89.782 $\pm$ 0.011 χ^2 /NDF: 755748.4/64

In: 98.062 $\pm$ 0.012 χ^2 /NDF: 1127870.5/53

Out: 97.723 $\pm$ 0.012 χ^2 /NDF: 1522441.5/58

All: 97.888 $\pm$ 0.008 χ^2 /NDF: 2650723.1/112

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -66.359 ± 166.917 χ^2/NDF : 30.5/30

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

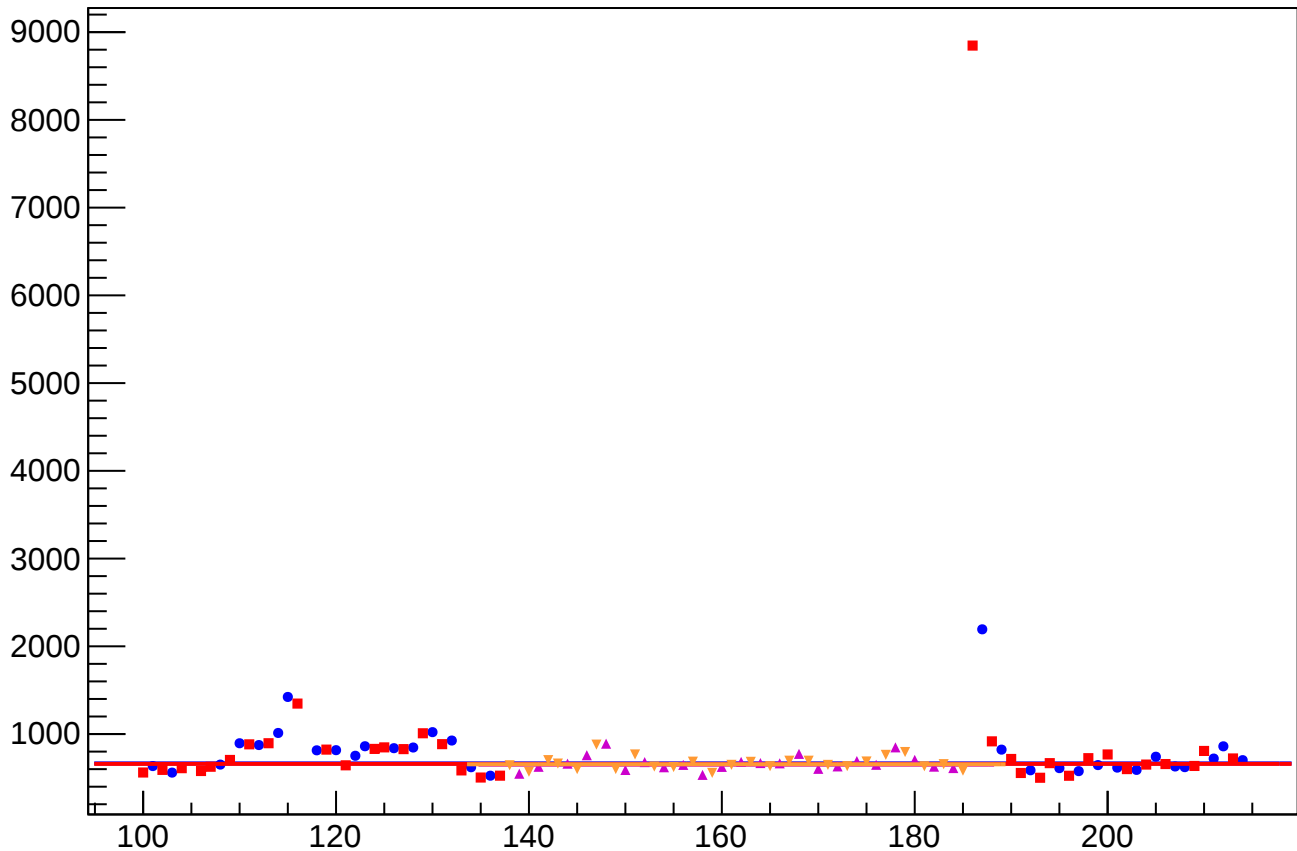
Right: -184.331 ± 117.095 χ^2/NDF : 64.1/64

In: -99.449 ± 114.421 χ^2/NDF : 66.7/53

Out: -40.471 ± 112.239 χ^2/NDF : 55.6/58

All: -69.392 ± 80.125 χ^2/NDF : 122.5/112

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 665.608+/-0.118 χ^2/NDF : 1101783.5/30

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

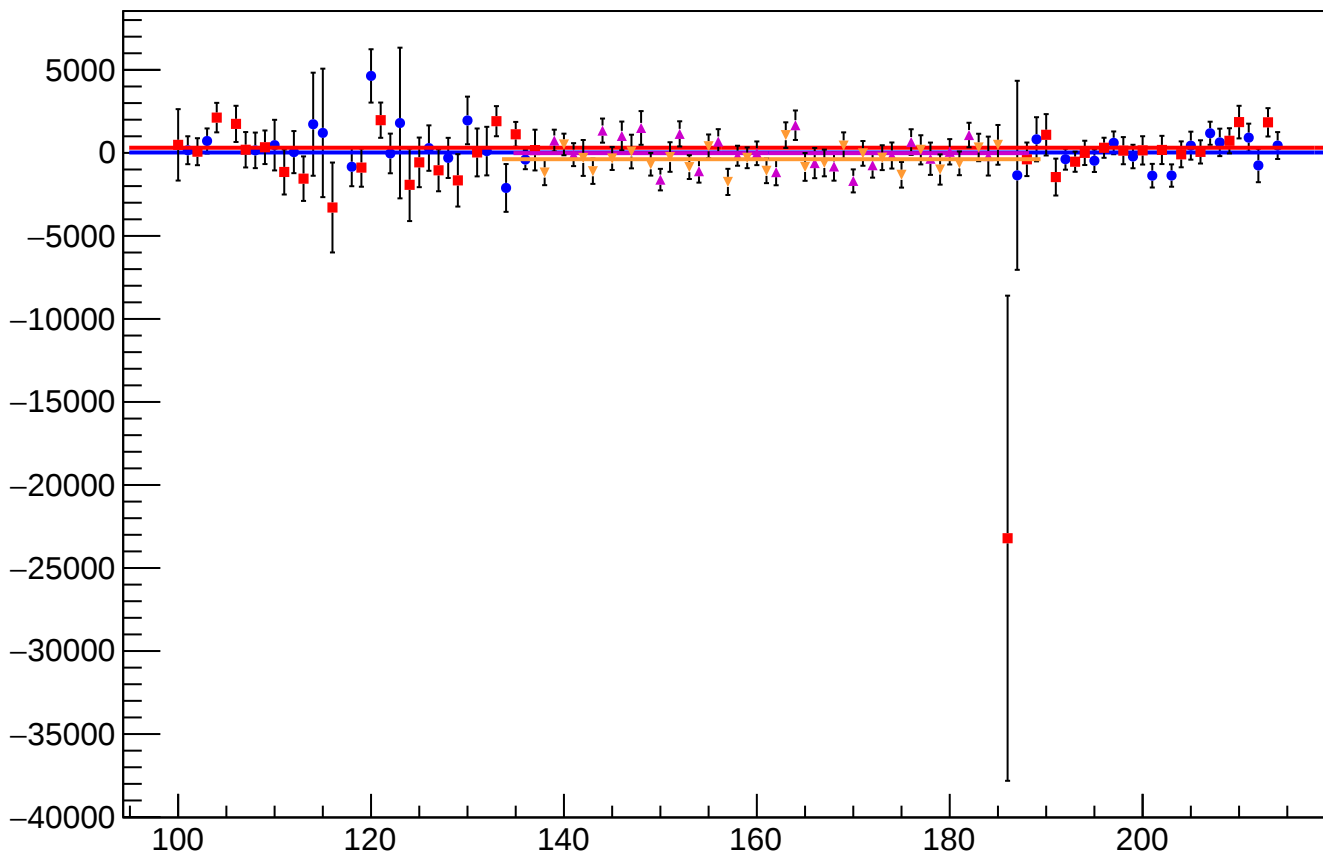
Right: 662.748+/-0.083 χ^2/NDF : 2929492.3/64

In: 657.803+/-0.081 χ^2/NDF : 1576151.3/53

Out: 657.405+/-0.079 χ^2/NDF : 2194820.2/58

All: 657.600+/-0.057 χ^2/NDF : 3770983.9/112

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 24.878+/-168.563 χ^2/NDF : 30.8/30

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

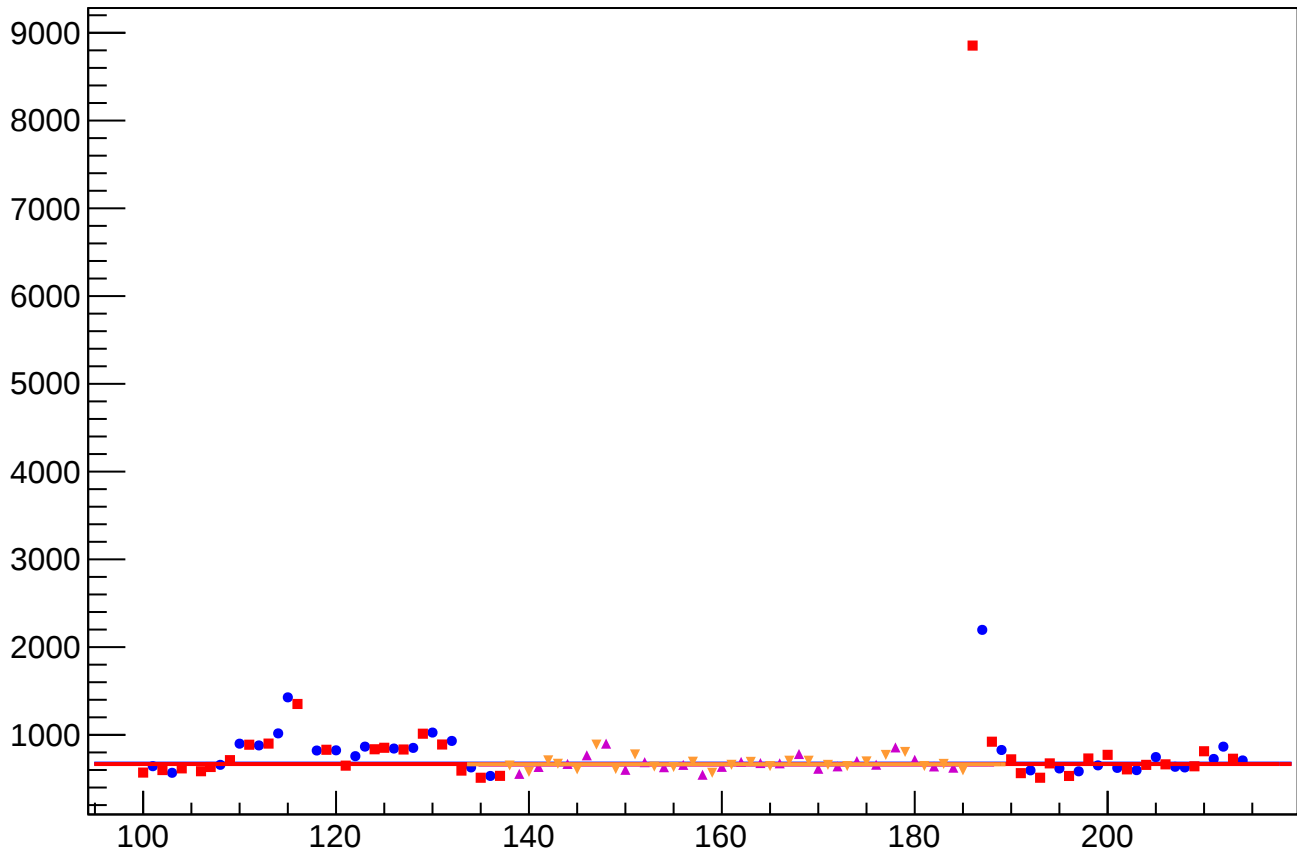
Right: 170.274+/-118.287 χ^2/NDF : 69.7/64

In: 3.962+/-115.860 χ^2/NDF :68.0/53

Out: -55.803+/-113.648 χ^2/NDF :65.4/58

All: -26.496+/-81.132 χ^2/NDF : 133.6/112

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 672.576+/-0.119 χ^2/NDF : 1076651.5/30

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 667.455+/-0.117 χ^2/NDF : 1788076.5/33

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

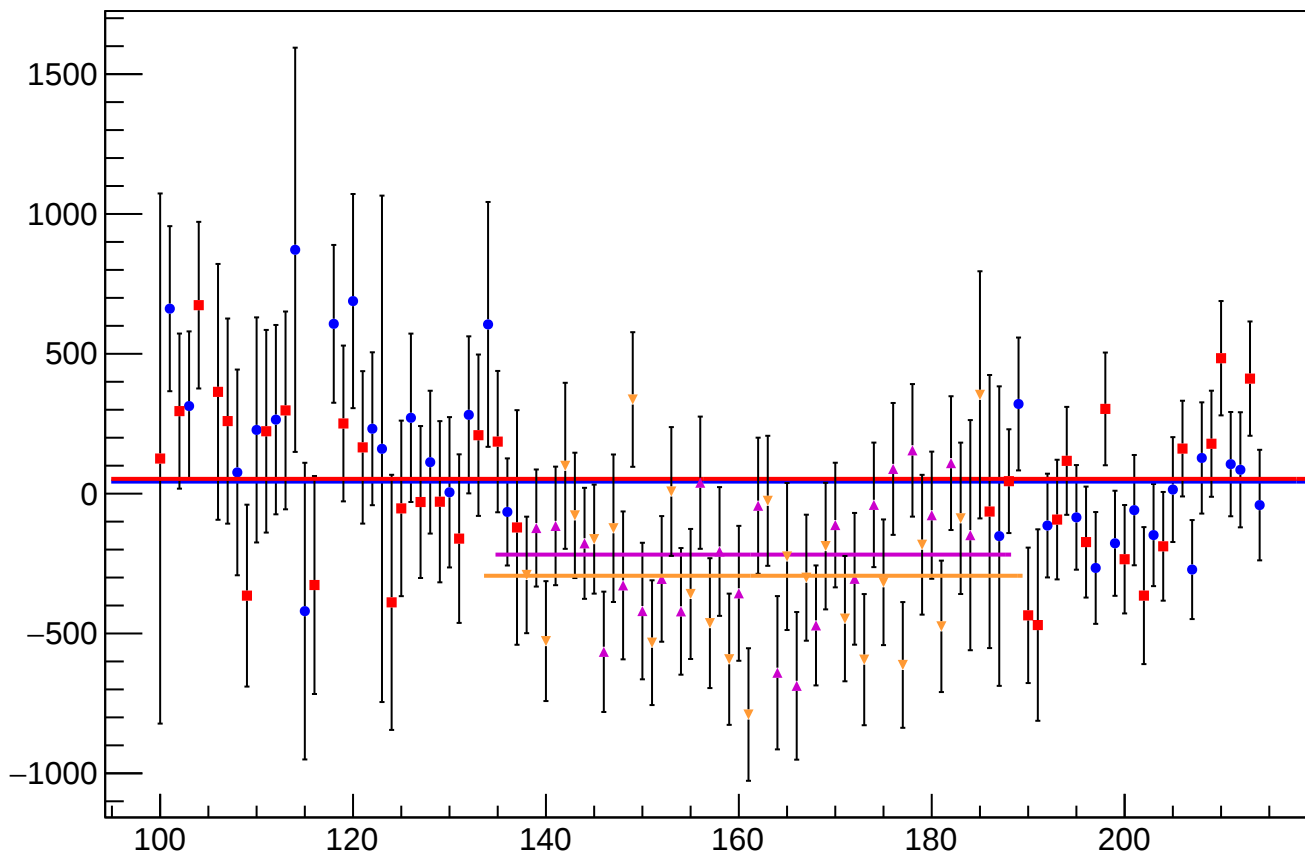
Right: 669.977+/-0.084 χ^2/NDF : 2865664.9/64

In: 666.411+/-0.082 χ^2/NDF : 1530902.4/53

Out: 666.029+/-0.080 χ^2/NDF : 2145407.8/58

All: 666.217+/-0.057 χ^2/NDF : 3676321.3/112

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 43.033+/-43.677 χ^2/NDF : 30.3/30

Left Out: -293.590+/-47.203 χ^2/NDF :30.3/24

Right Out: 52.863+/-43.950 χ^2/NDF : 37.2/33

Left In: -217.964+/-48.819 χ^2/NDF :21.3/22

Left: -257.050+/-33.934 χ^2/NDF : 52.9/47

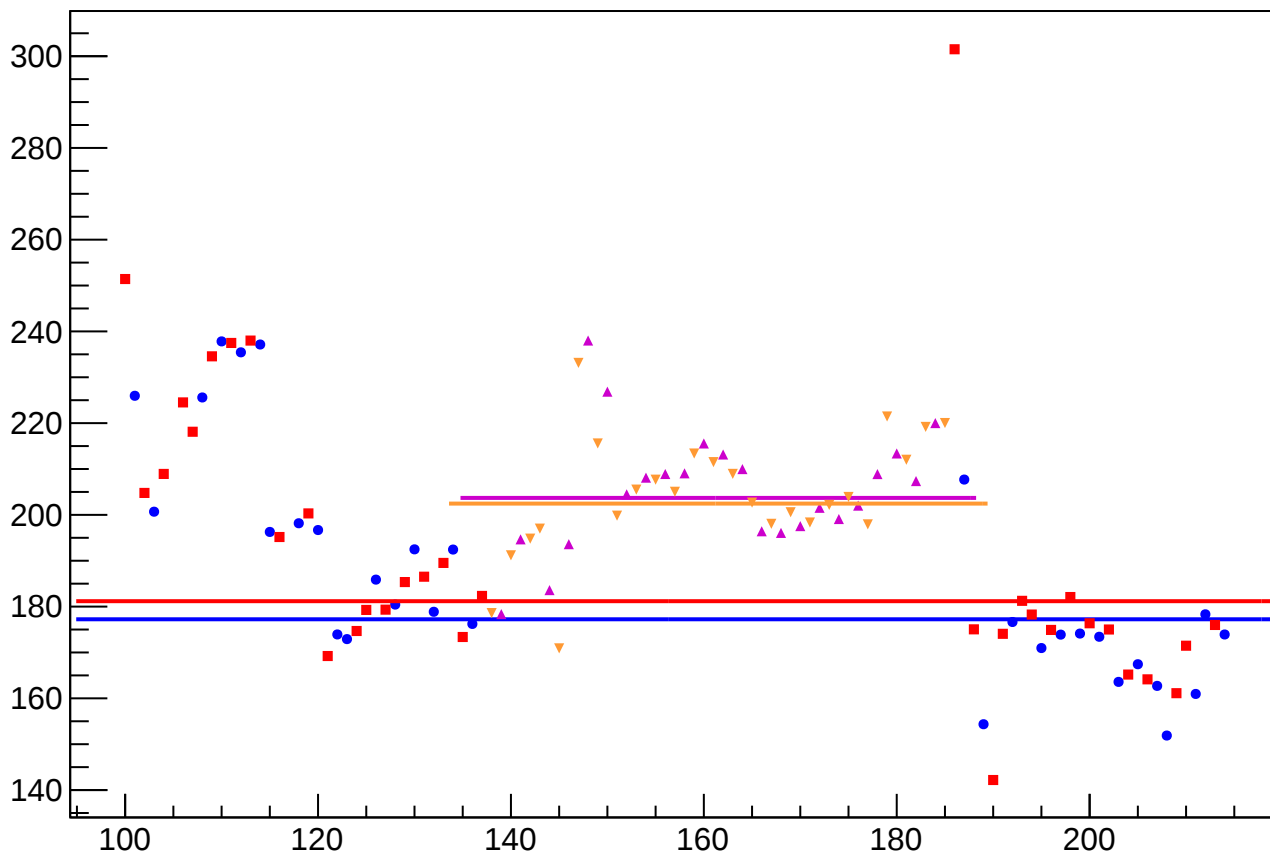
Right: 47.917+/-30.981 χ^2/NDF : 67.6/64

In: -73.002+/-32.551 χ^2/NDF :67.5/53

Out: -108.018+/-32.166 χ^2/NDF :96.4/58

All: -90.718+/-22.880 χ^2/NDF : 164.5/112

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 177.235 $\pm$ 0.031 χ^2 /NDF: 360387.5/30

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

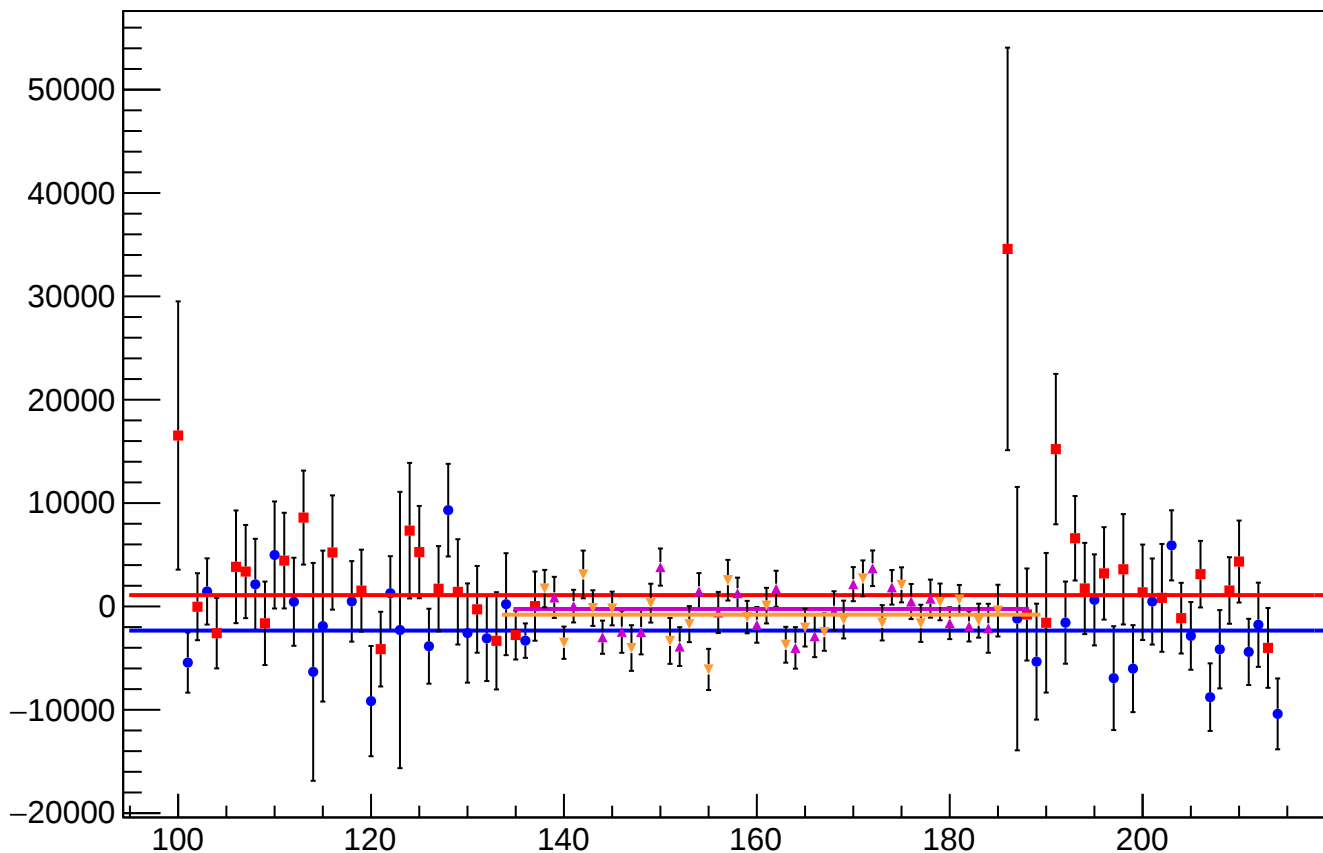
Right: 179.196 $\pm$ 0.022 χ^2 /NDF: 867404.9/64

In: 189.000 $\pm$ 0.023 χ^2 /NDF:823004.2/53

Out: 191.062 $\pm$ 0.023 χ^2 /NDF:875163.6/58

All: 190.043 $\pm$ 0.016 χ^2 /NDF: 1702225.6/112

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -2335.747 $\pm$ 691.123 χ^2 /NDF: 35.7/30

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

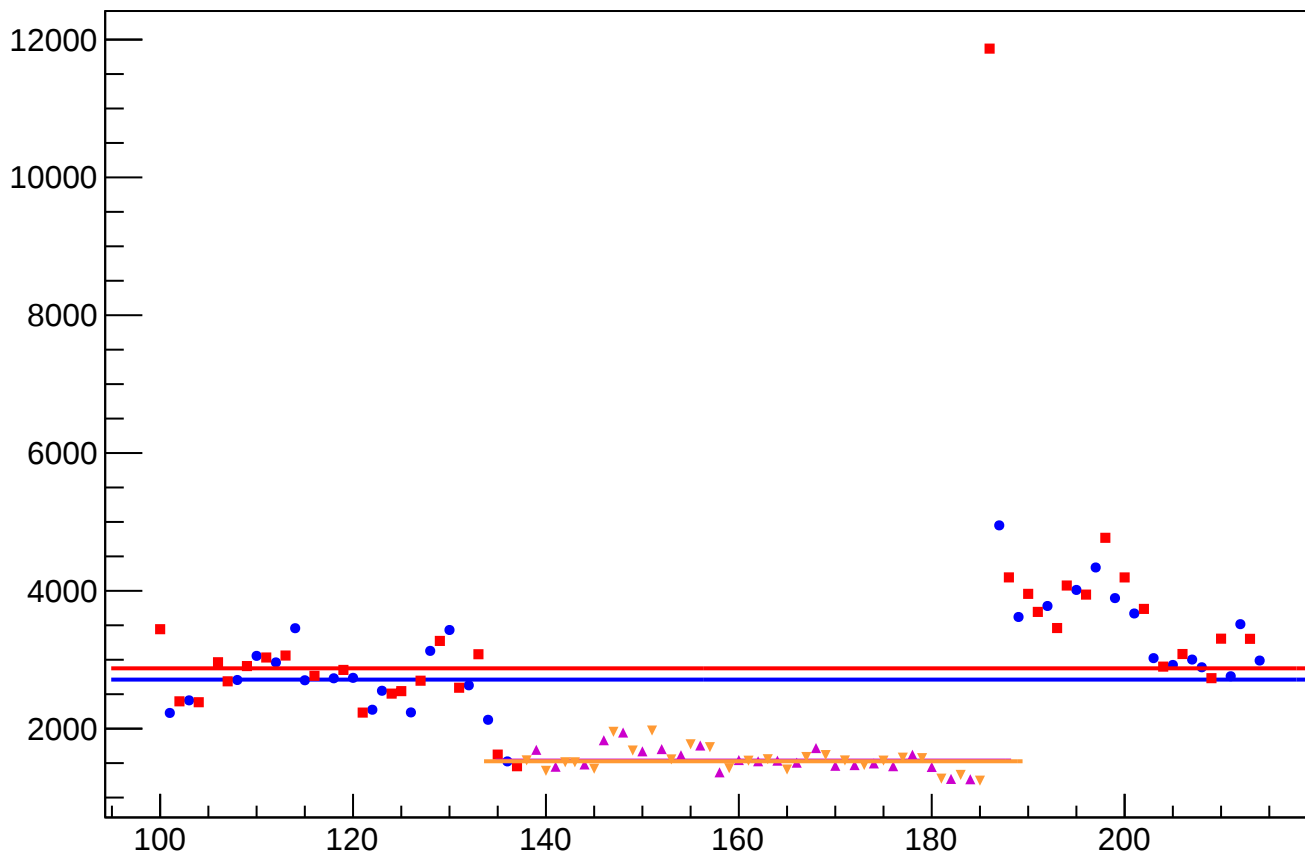
Right: -693.487 $\pm$ 498.982 χ^2 /NDF: 75.3/64

In: -710.522 $\pm$ 326.090 χ^2 /NDF:78.6/53

Out: -422.873 $\pm$ 320.556 χ^2 /NDF:69.0/58

All: -564.236 $\pm$ 228.599 χ^2 /NDF: 147.9/112

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2711.965 $\pm$ 0.489 χ^2 /NDF: 2313928.6/30

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

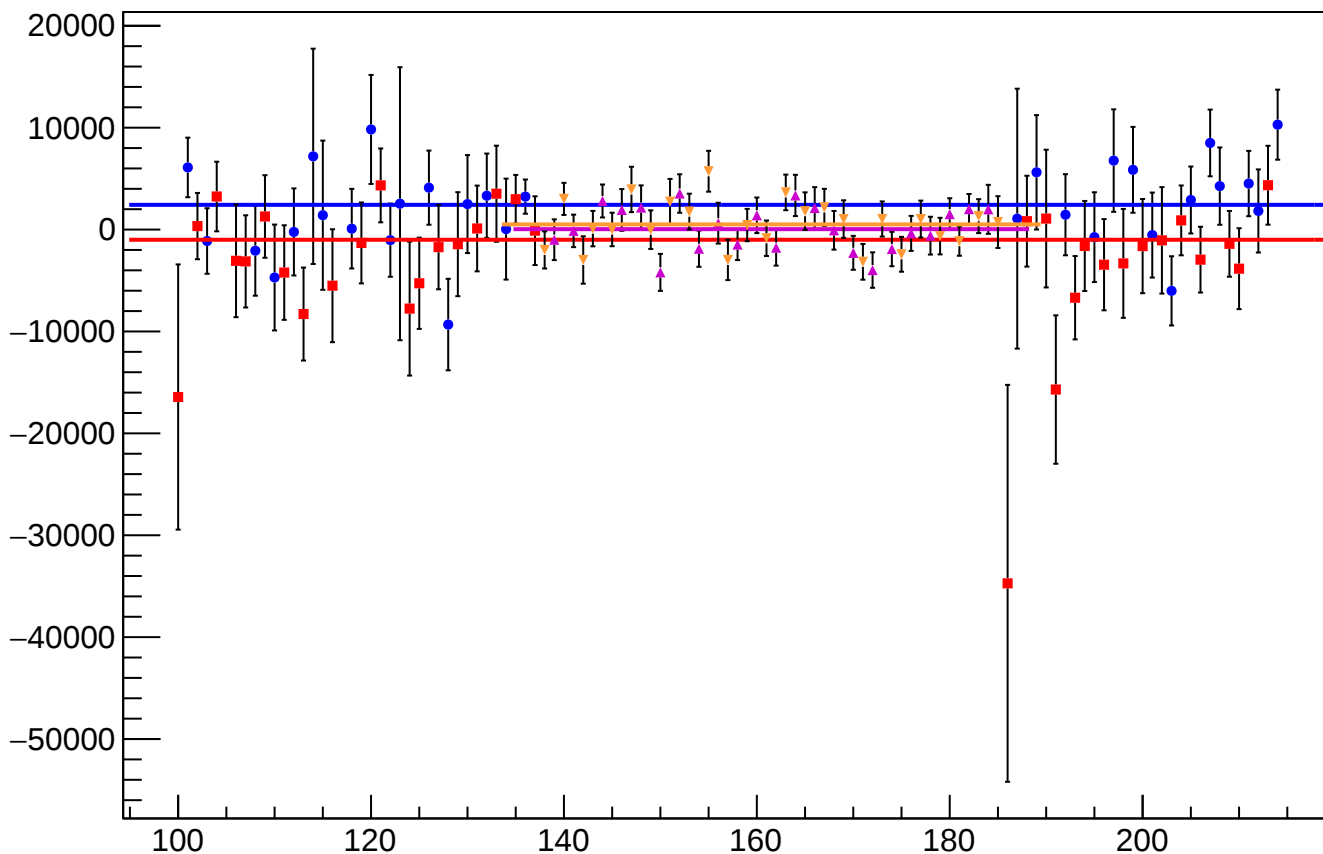
Right: 2790.213 $\pm$ 0.353 χ^2 /NDF: 5008819.1/64

In: 1798.212 $\pm$ 0.231 χ^2 /NDF: 7161521.1/53

Out: 1793.182 $\pm$ 0.227 χ^2 /NDF: 8649156.8/58

All: 1795.654 $\pm$ 0.162 χ^2 /NDF: 15810919.9/111

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2427.708 $\pm$ 693.279 χ^2 /NDF: 35.5/30

Left Out: 507.982 $\pm$ 361.172 χ^2 /NDF:35.4/24

Right Out: -997.669 $\pm$ 723.296 χ^2 /NDF: 28.4/33

Left In: 40.080 $\pm$ 373.261 χ^2 /NDF:33.6/22

Left: 281.730 $\pm$ 259.556 χ^2 /NDF: 69.8/47

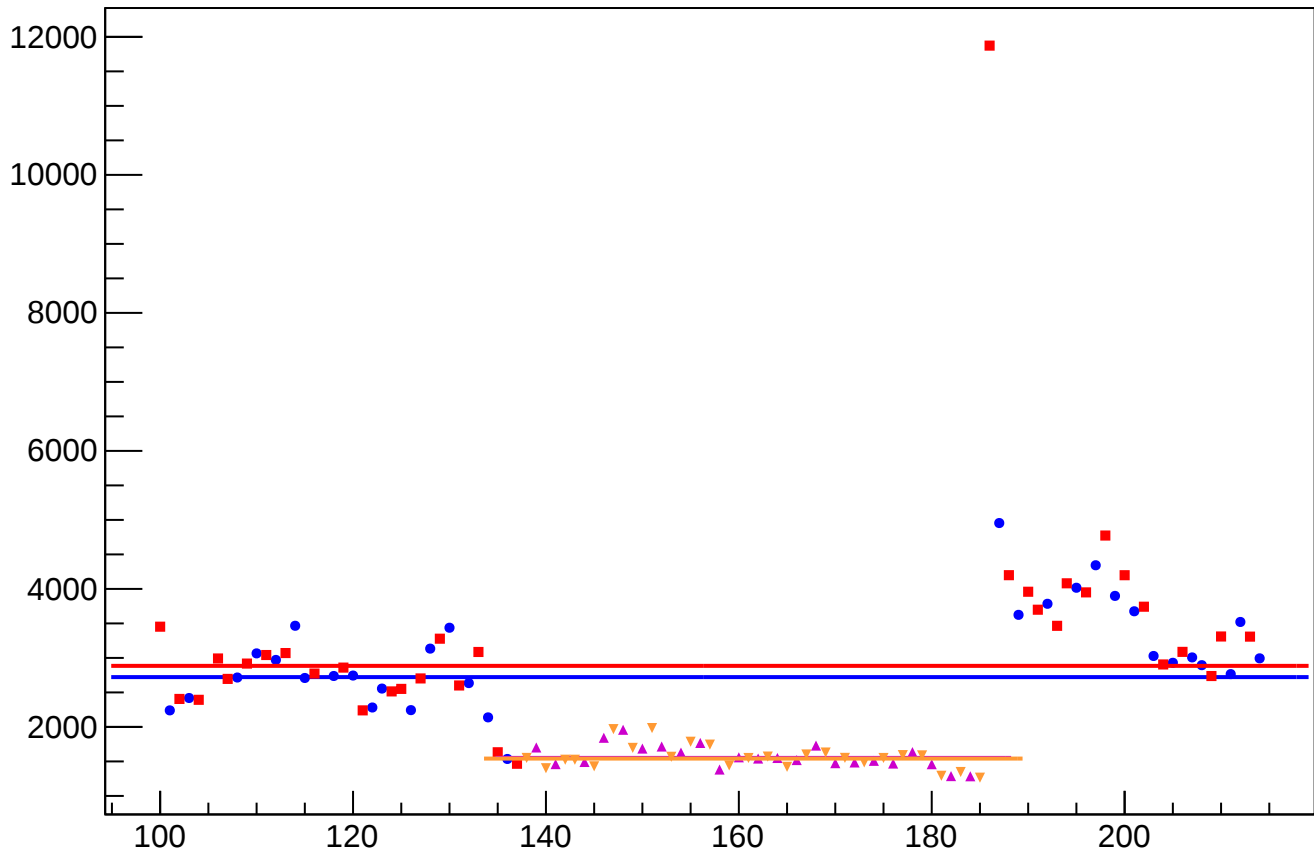
Right: 787.572 $\pm$ 500.498 χ^2 /NDF: 75.6/64

In: 576.653 $\pm$ 328.654 χ^2 /NDF:78.3/53

Out: 207.485 $\pm$ 323.127 χ^2 /NDF:67.3/58

All: 388.939 $\pm$ 230.415 χ^2 /NDF: 146.2/112

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2721.945 $\pm$ 0.490 χ^2 /NDF: 2281281.4/30

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

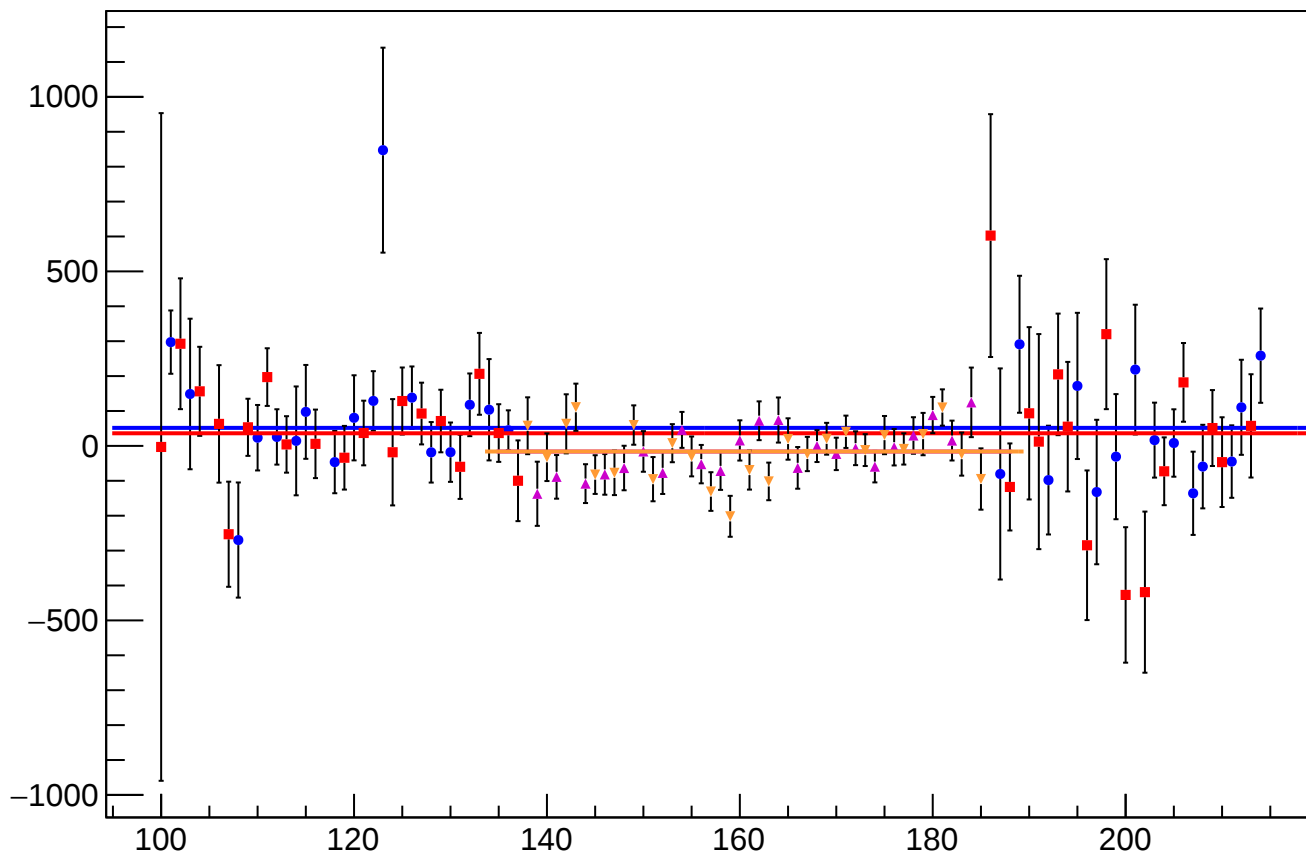
Right: 2799.958 $\pm$ 0.354 χ^2 /NDF: 4949385.4/64

In: 1814.197 $\pm$ 0.232 χ^2 /NDF: 7042938.8/53

Out: 1809.416 $\pm$ 0.228 χ^2 /NDF: 8521405.3/58

All: 1811.766 $\pm$ 0.163 χ^2 /NDF: 15564559.4/115

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 51.646 $\pm$ 20.055 χ^2 /NDF: 35.9/30

Left Out: -16.049 $\pm$ 11.340 χ^2 /NDF:39.7/24

Right Out: 36.123 $\pm$ 20.408 χ^2 /NDF: 39.5/33

Left In: -16.162 $\pm$ 11.649 χ^2 /NDF:25.2/22

Left: -16.104 $\pm$ 8.126 χ^2 /NDF: 64.9/47

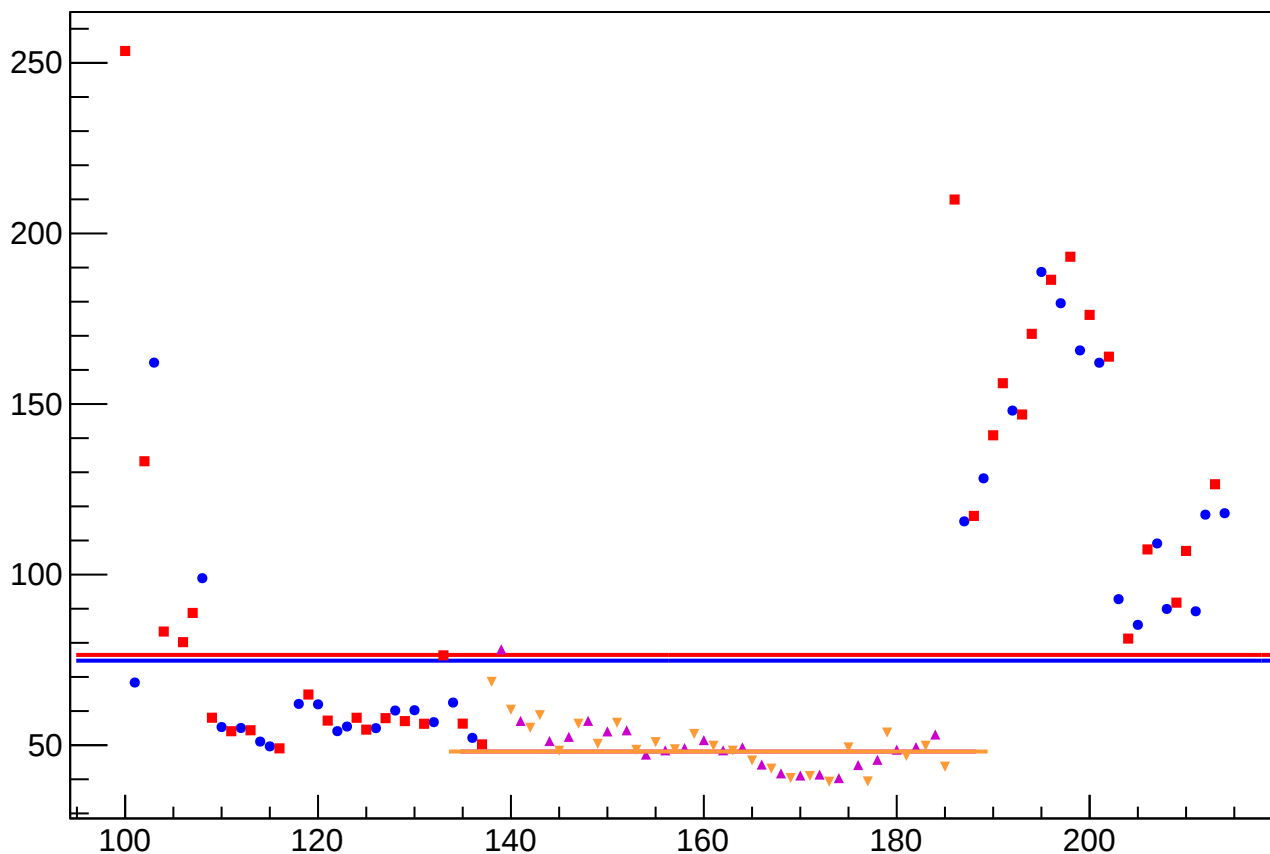
Right: 44.020 $\pm$ 14.304 χ^2 /NDF: 75.6/64

In: 0.945 $\pm$ 10.073 χ^2 /NDF:69.7/53

Out: -3.741 $\pm$ 9.912 χ^2 /NDF:84.1/58

All: -1.436 $\pm$ 7.065 χ^2 /NDF: 153.9/112

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 74.771 $\pm$ 0.014 χ^2 /NDF: 4925833.9/30

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

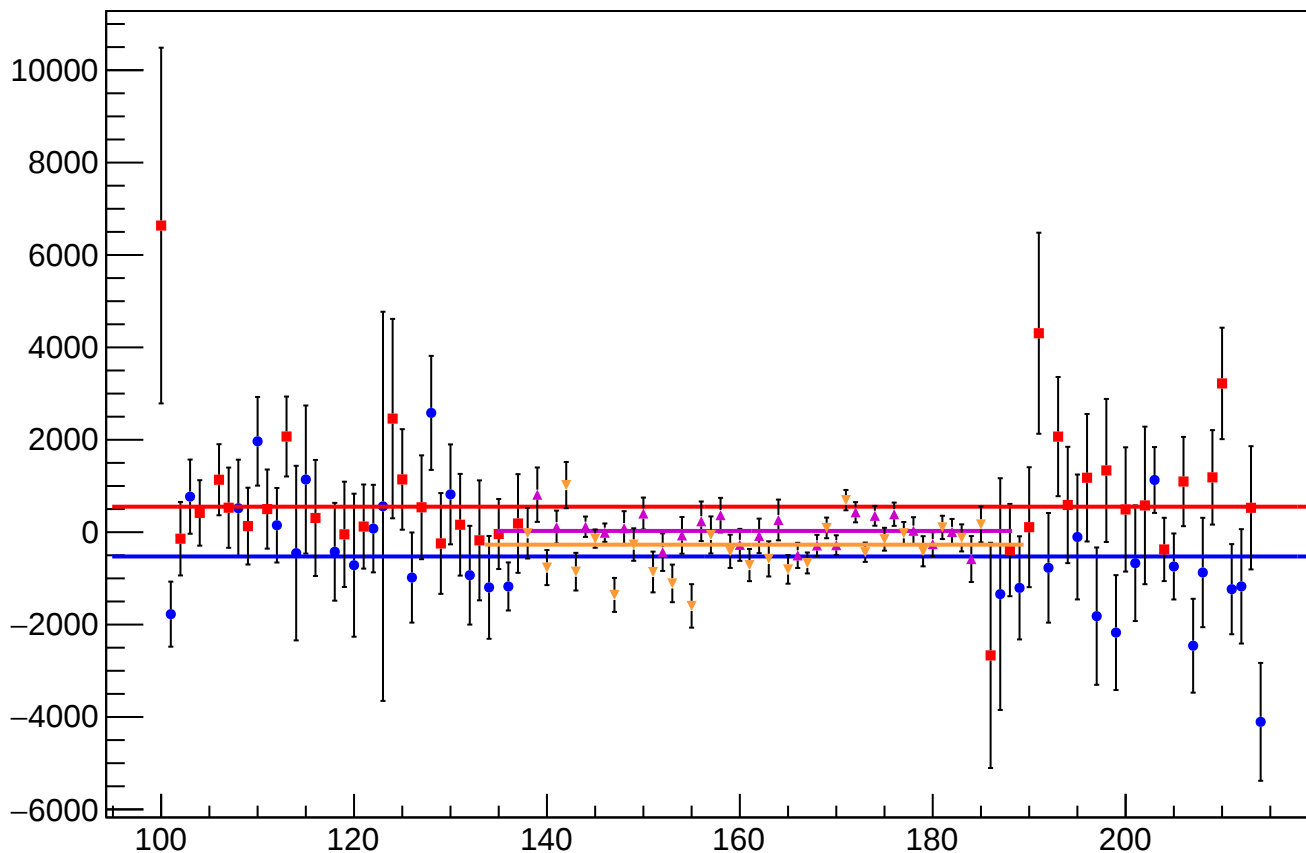
Right: 75.602 $\pm$ 0.010 χ^2 /NDF: 10595163.1/64

In: 54.858 $\pm$ 0.007 χ^2 /NDF: 8137821.8/53

Out: 54.822 $\pm$ 0.007 χ^2 /NDF: 9260823.5/58

All: 54.840 $\pm$ 0.005 χ^2 /NDF: 17398657.7/112

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -525.649 ± 182.343 $\chi^2/\text{NDF}: 46.9/30$

Left Out: -270.214 ± 60.177 $\chi^2/\text{NDF}: 70.1/24$

Right Out: 551.846 ± 180.781 $\chi^2/\text{NDF}: 25.5/33$

Left In: 27.271 ± 60.430 $\chi^2/\text{NDF}: 25.1/22$

Left: -122.095 ± 42.641 $\chi^2/\text{NDF}: 107.3/47$

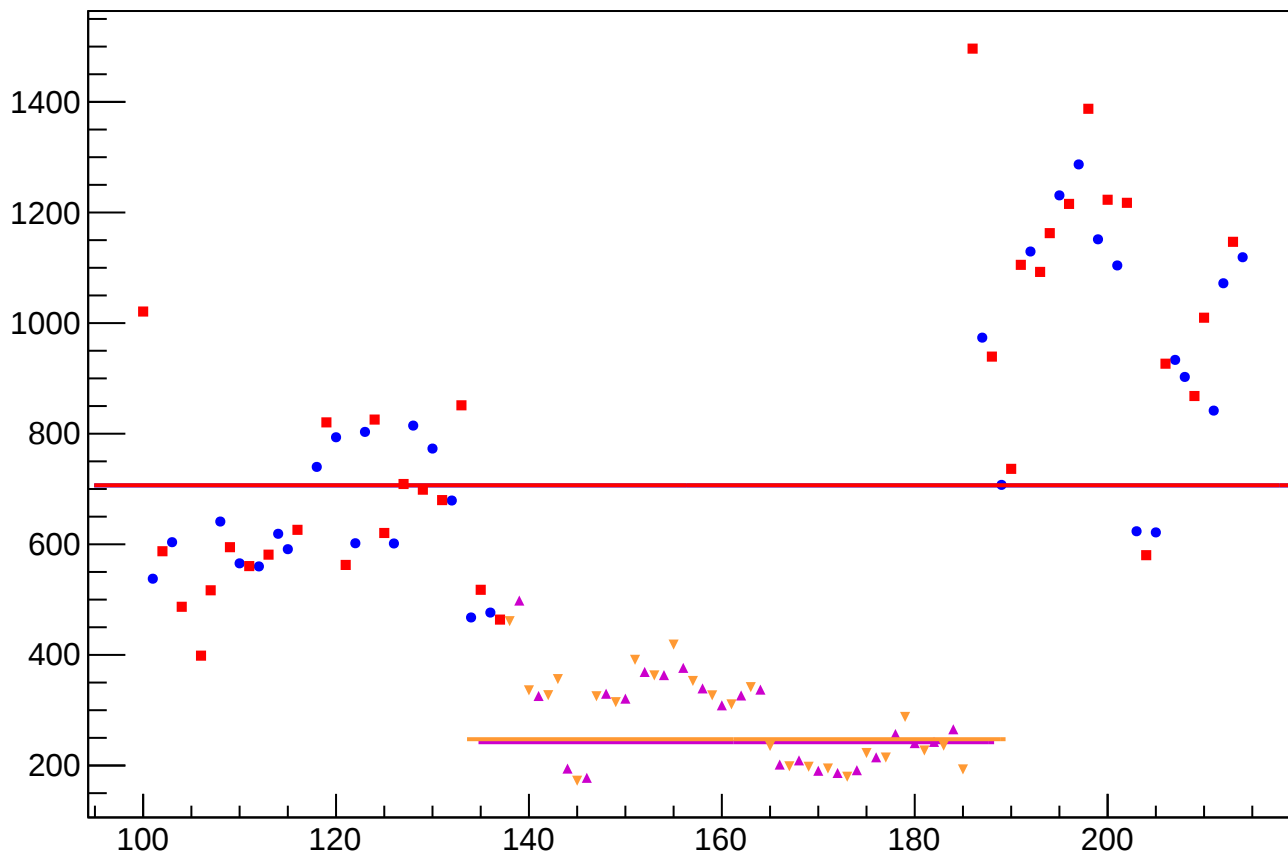
Right: 17.734 ± 128.380 $\chi^2/\text{NDF}: 90.1/64$

In: -27.447 ± 57.362 $\chi^2/\text{NDF}: 80.3/53$

Out: -188.211 ± 57.097 $\chi^2/\text{NDF}: 114.2/58$

All: -108.201 ± 40.467 $\chi^2/\text{NDF}: 198.5/112$

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 706.437 $\pm$ 0.129 χ^2 /NDF: 2816458.5/30

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

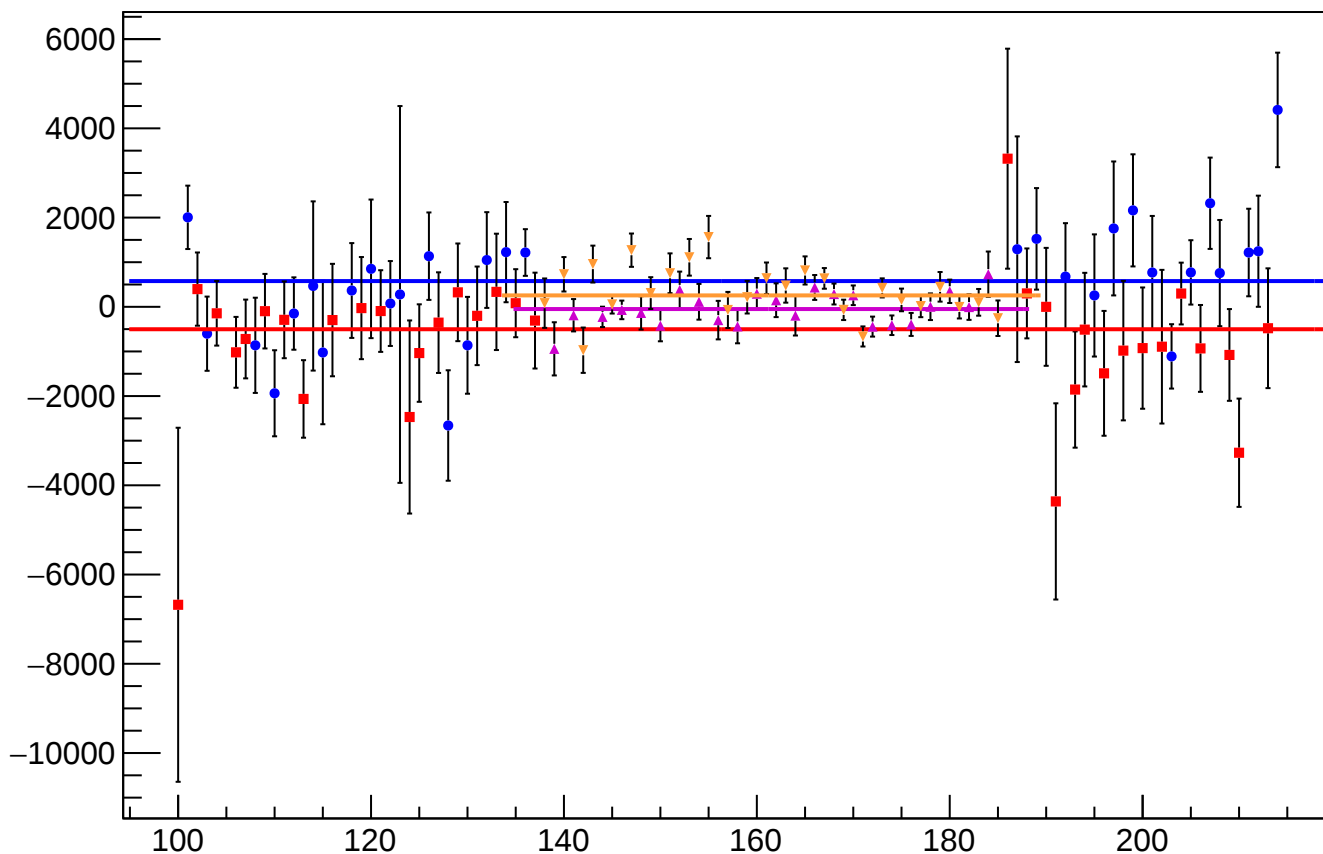
Right: 706.612 $\pm$ 0.091 χ^2 /NDF: 6497119.9/64

In: 288.067 $\pm$ 0.041 χ^2 /NDF: 16967512.7/53

Out: 293.378 $\pm$ 0.040 χ^2 /NDF: 18079158.5/58

All: 290.735 $\pm$ 0.029 χ^2 /NDF: 35055283.1/111

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 577.054 $\pm$ 183.984 χ^2 /NDF: 49.0/30

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

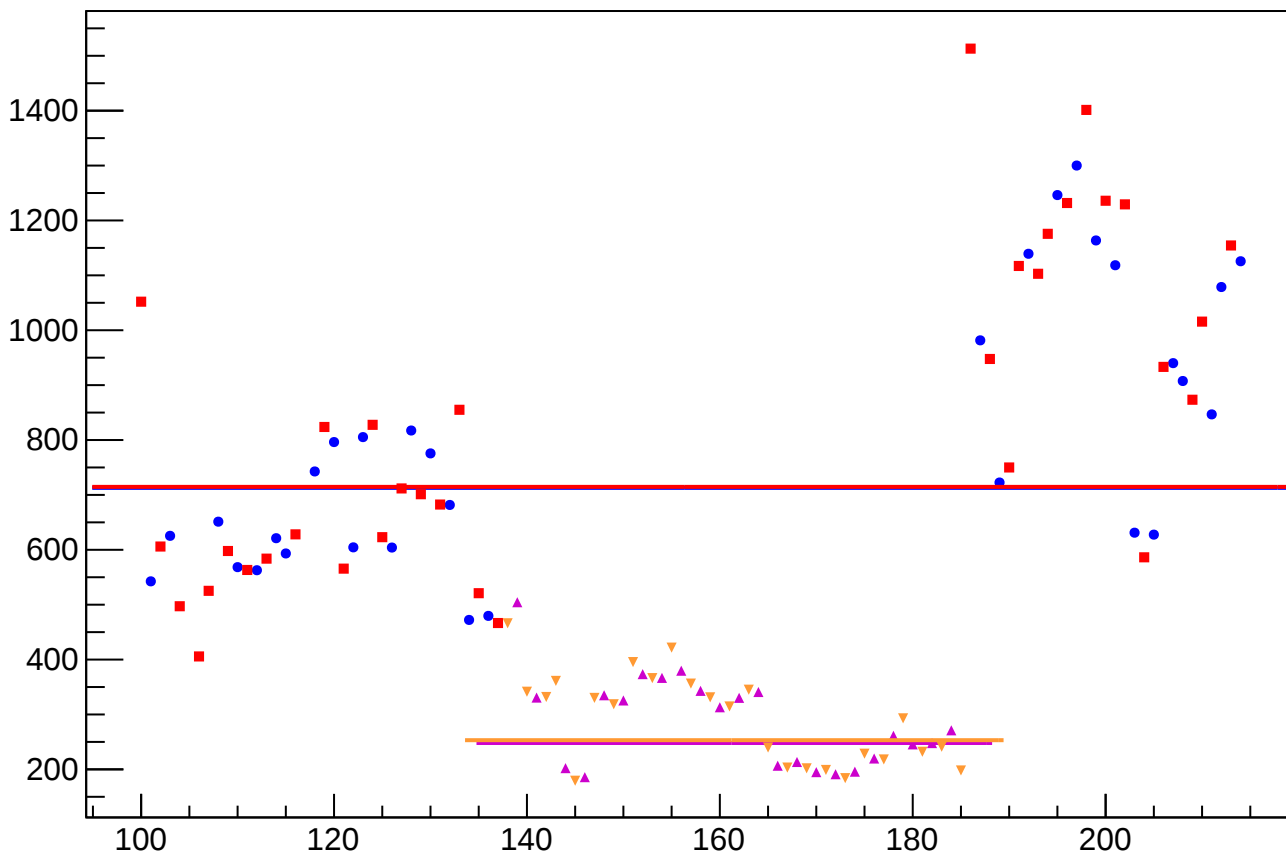
Right: 33.618 $\pm$ 129.653 χ^2 /NDF: 92.5/64

In: 13.692 $\pm$ 58.567 χ^2 /NDF:86.9/53

Out: 179.011 $\pm$ 58.218 χ^2 /NDF:105.2/58

All: 96.846 $\pm$ 41.289 χ^2 /NDF: 196.2/112

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 712.870 $\pm$ 0.130 χ^2 /NDF: 2814260.2/30

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

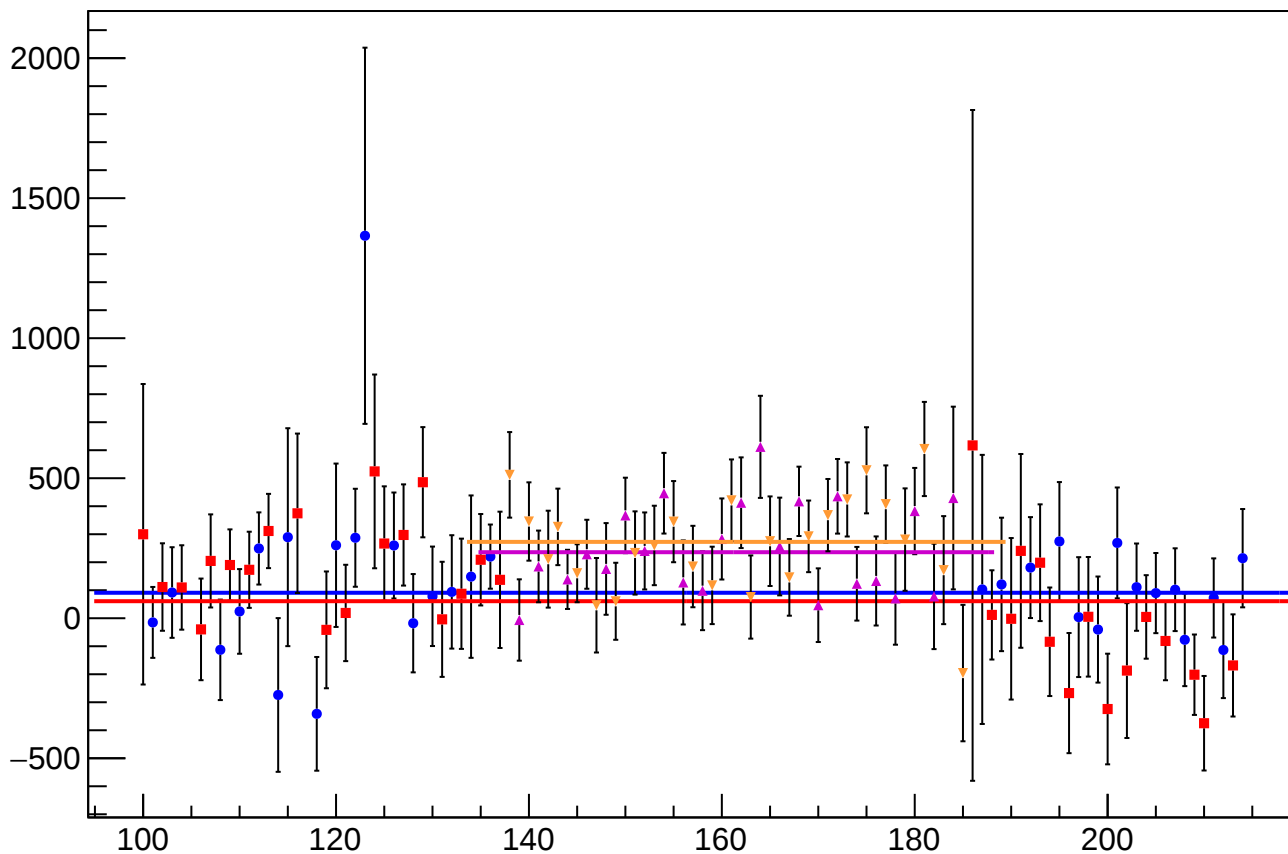
Right: 713.763 $\pm$ 0.092 χ^2 /NDF: 6459188.0/64

In: 295.168 $\pm$ 0.041 χ^2 /NDF: 16628639.8/53

Out: 299.980 $\pm$ 0.041 χ^2 /NDF: 17772628.3/58

All: 297.588 $\pm$ 0.029 χ^2 /NDF: 34408057.4/111

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 90.988+/-32.109 χ^2/NDF : 23.4/30

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

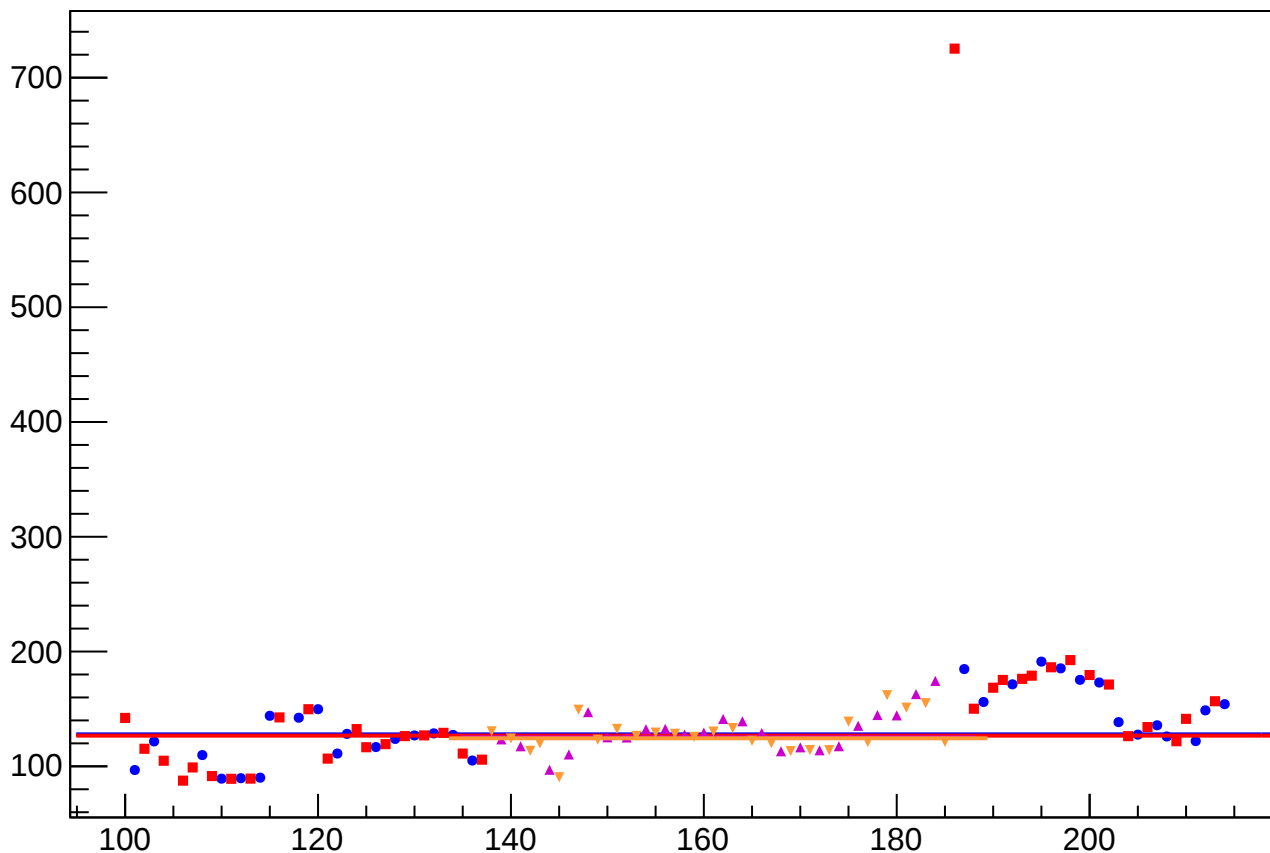
Right: 75.720+/-22.555 χ^2/NDF : 64.0/64

In: 167.752+/-22.011 χ^2/NDF :58.8/53

Out: 175.337+/-21.482 χ^2/NDF :91.7/58

All: 171.636+/-15.374 χ^2/NDF : 150.6/112

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 127.824+/-0.023 χ^2/NDF : 1437528.2/30

Left Out: 124.429+/-0.021 χ^2/NDF : 539731.8/24

Right Out: 126.736+/-0.022 χ^2/NDF : 2284102.9/33

Left In: 125.205+/-0.021 χ^2/NDF : 501388.2/22

Left: 124.804+/-0.015 χ^2/NDF : 1041801.9/47

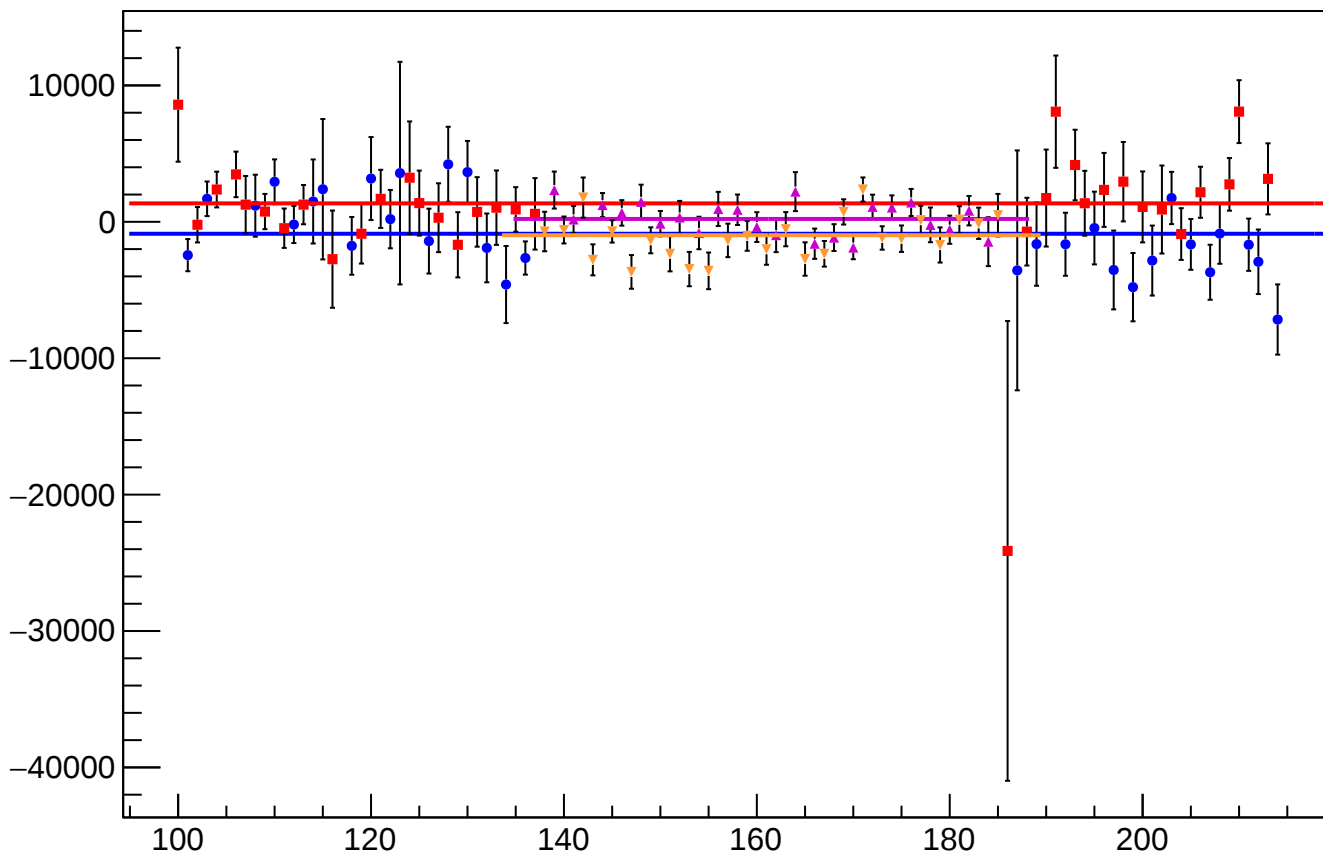
Right: 127.273+/-0.016 χ^2/NDF : 3722793.9/64

In: 126.436+/-0.016 χ^2/NDF : 1945967.4/53

Out: 125.489+/-0.015 χ^2/NDF : 2829564.0/58

All: 125.951+/-0.011 χ^2/NDF : 4777426.1/112

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -875.863+/-375.237 χ^2/NDF : 42.3/30

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

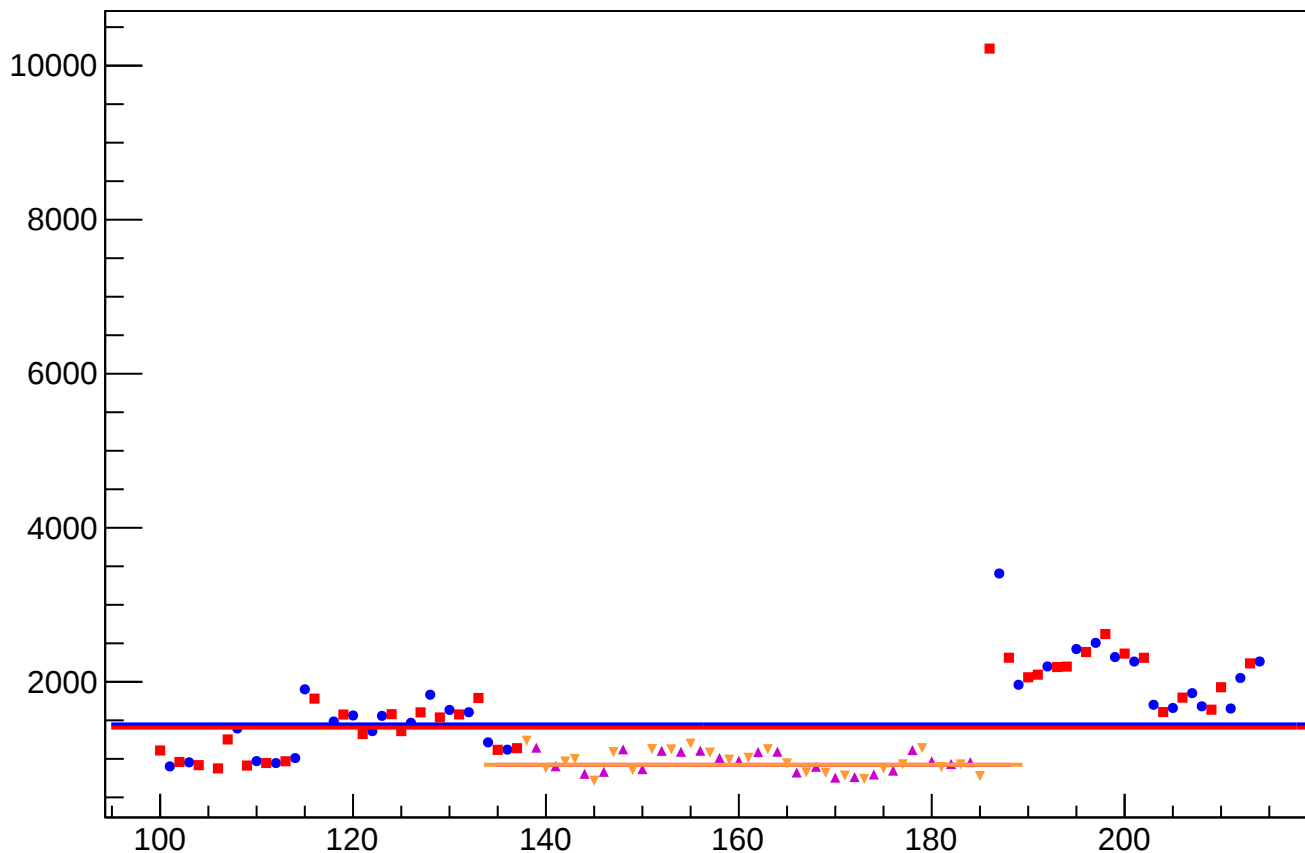
Right: 273.326+/-261.152 χ^2/NDF : 92.0/64

In: -72.919+/-191.890 χ^2/NDF : 74.1/53

Out: -365.358+/-186.994 χ^2/NDF : 109.0/58

All: -222.917+/-133.922 χ^2/NDF : 184.4/112

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1447.177+/-0.265 χ^2/NDF : 3324958.4/30

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

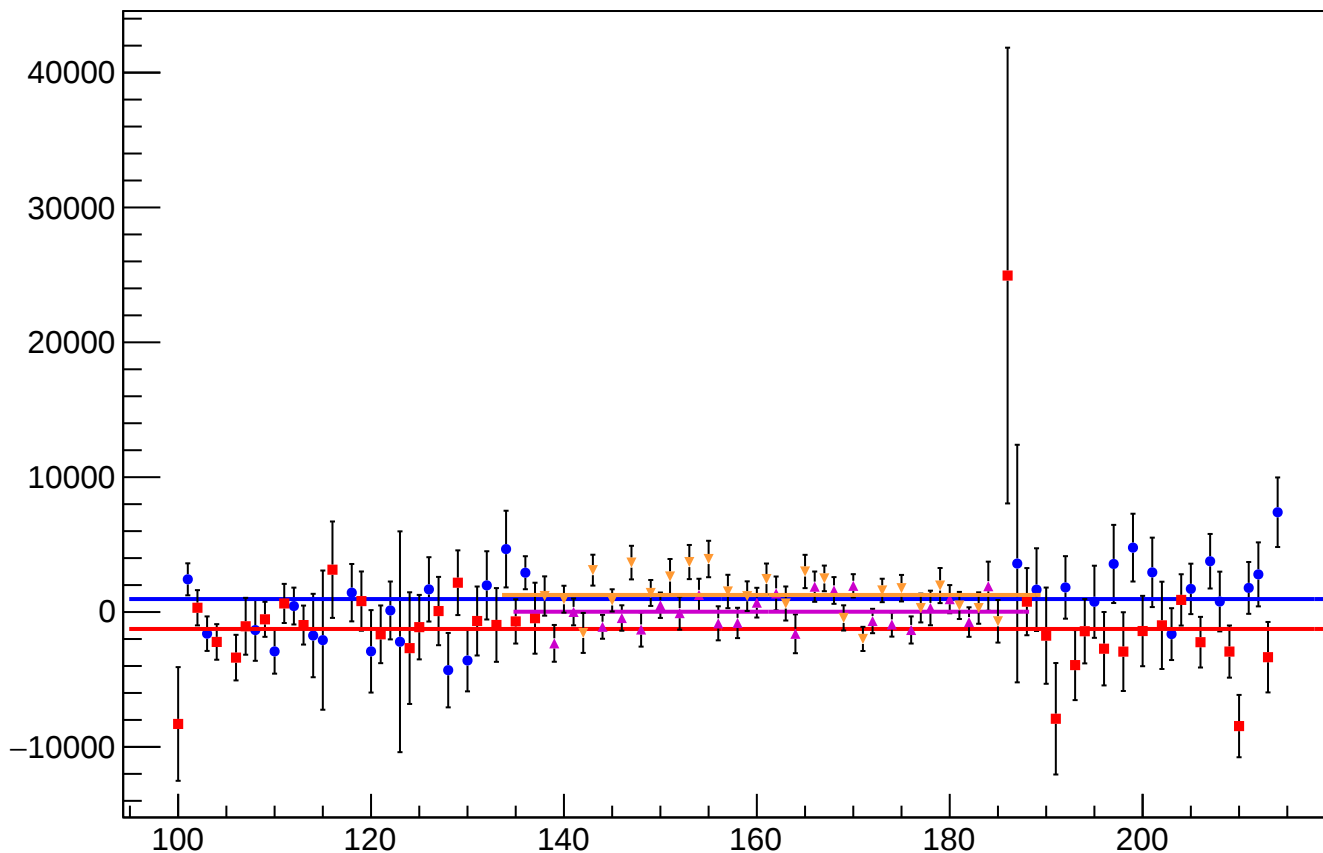
Right: 1425.914+/-0.185 χ^2/NDF : 7774374.5/64

In: 1059.522+/-0.136 χ^2/NDF : 6850127.7/53

Out: 1051.106+/-0.132 χ^2/NDF : 7867790.0/58

All: 1055.205+/-0.095 χ^2/NDF : 14719891.0/112

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 963.360 $\pm$ 376.823 χ^2/NDF : 42.3/30

Left Out: 1267.344 $\pm$ 220.133 χ^2/NDF : 44.9/24

Right Out: -1254.671 $\pm$ 365.396 χ^2/NDF : 33.6/33

Left In: 23.478 $\pm$ 225.490 χ^2/NDF : 27.2/22

Left: 660.362 $\pm$ 157.518 χ^2/NDF : 87.7/47

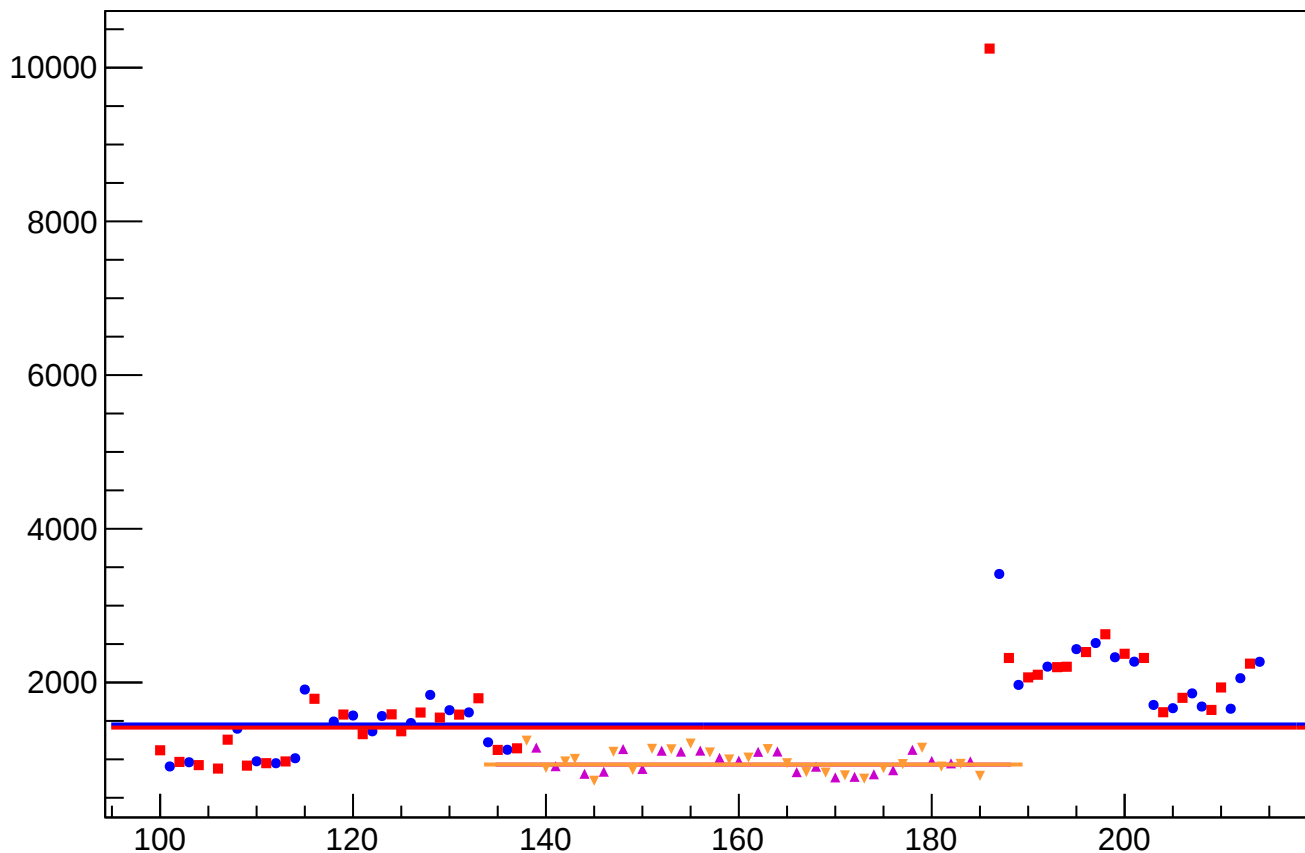
Right: -179.795 $\pm$ 262.321 χ^2/NDF : 93.8/64

In: 271.294 $\pm$ 193.493 χ^2/NDF : 74.1/53

Out: 595.741 $\pm$ 188.558 χ^2/NDF : 113.5/58

All: 437.707 $\pm$ 135.042 χ^2/NDF : 189.0/112

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1453.860+/-0.266 χ^2/NDF : 3303038.8/30

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

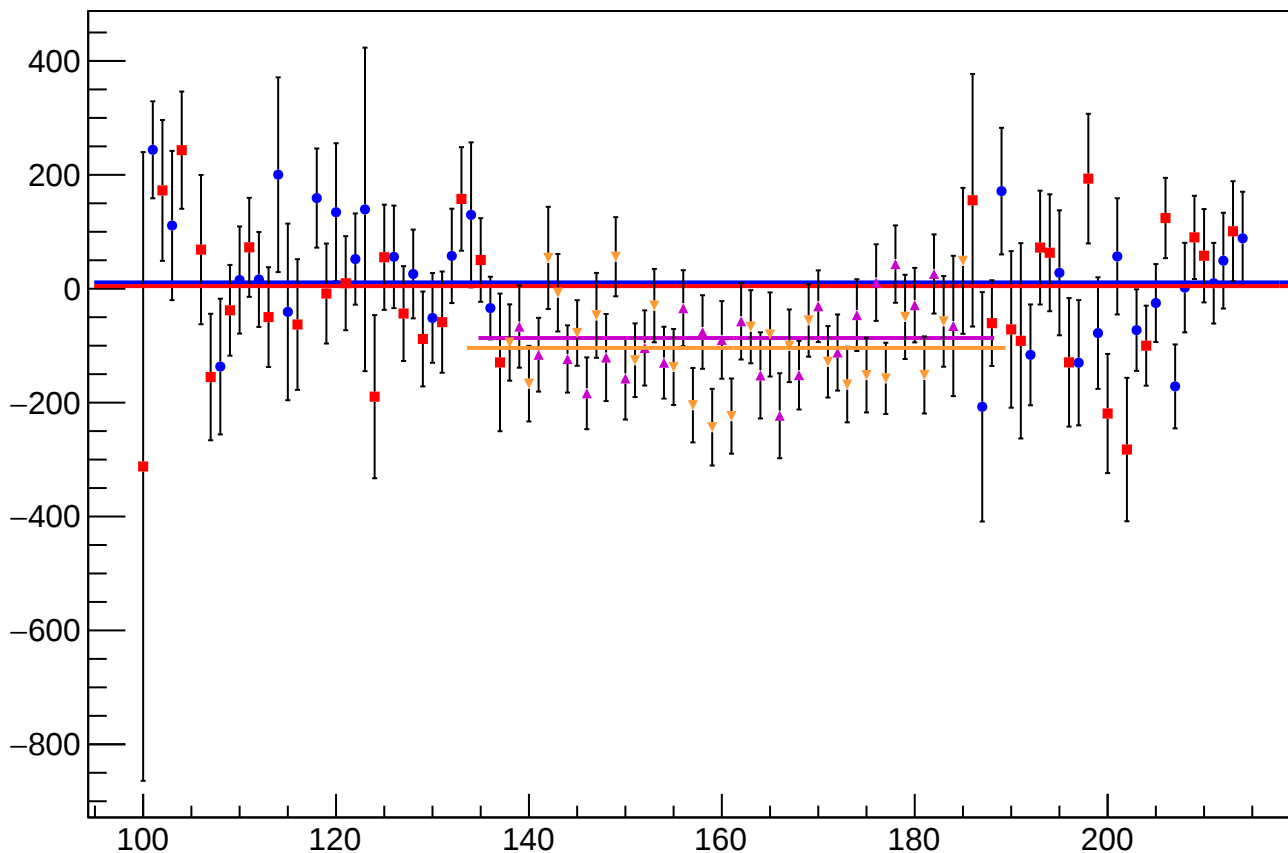
Right: 1432.805+/-0.185 χ^2/NDF : 7725886.1/64

In: 1069.224+/-0.137 χ^2/NDF : 6757452.4/53

Out: 1060.651+/-0.133 χ^2/NDF : 7775345.7/58

All: 1064.827+/-0.095 χ^2/NDF : 14534811.9/100

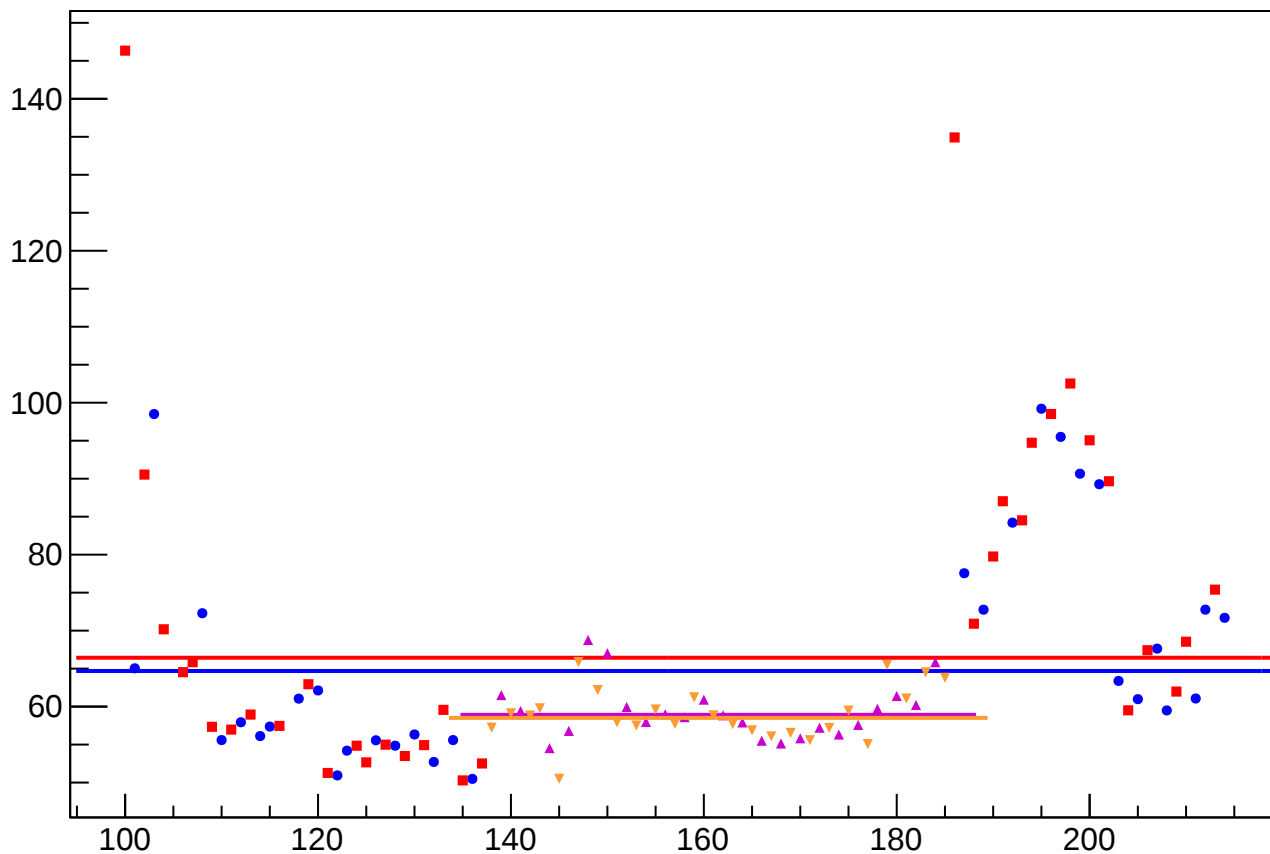
reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 11.081 ± 16.222 $\chi^2/\text{NDF}: 35.0/30$
 Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$
 Right Out: 4.594 ± 16.464 $\chi^2/\text{NDF}: 44.8/33$
 Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$
 Right: 7.886 ± 11.556 $\chi^2/\text{NDF}: 79.9/64$
 In: -44.463 ± 10.651 $\chi^2/\text{NDF}: 77.0/53$
 Out: -59.734 ± 10.505 $\chi^2/\text{NDF}: 100.5/58$
 All: -52.204 ± 7.479 $\chi^2/\text{NDF}: 178.6/112$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.688 $\pm$ 0.011 χ^2 /NDF: 1293438.0/30

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

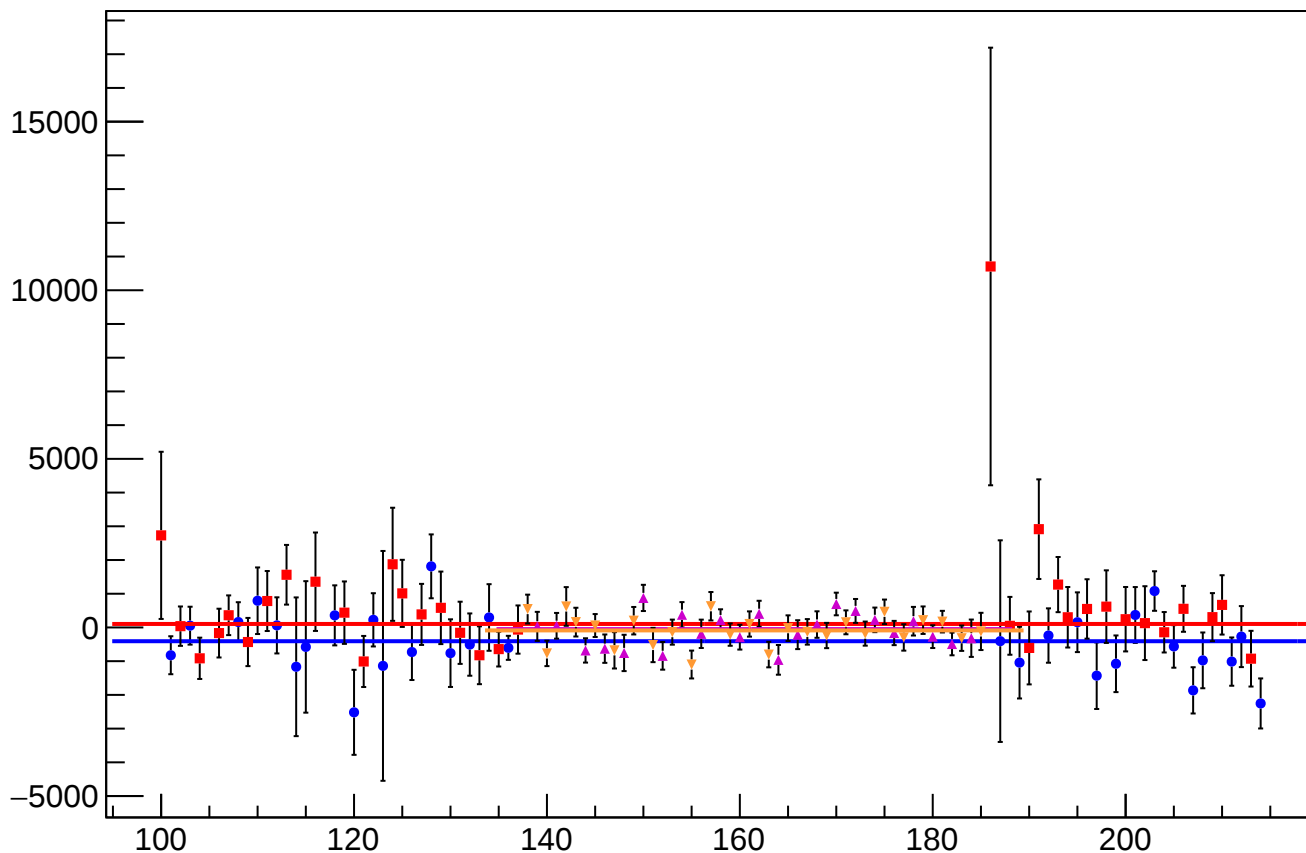
Right: 65.547 $\pm$ 0.008 χ^2 /NDF: 2977161.9/64

In: 61.402 $\pm$ 0.008 χ^2 /NDF:1547581.1/53

Out: 61.736 $\pm$ 0.007 χ^2 /NDF:2069840.2/58

All: 61.572 $\pm$ 0.005 χ^2 /NDF: 3618417.3/112

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -408.237 ± 139.875 χ^2/NDF : 36.7/30

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

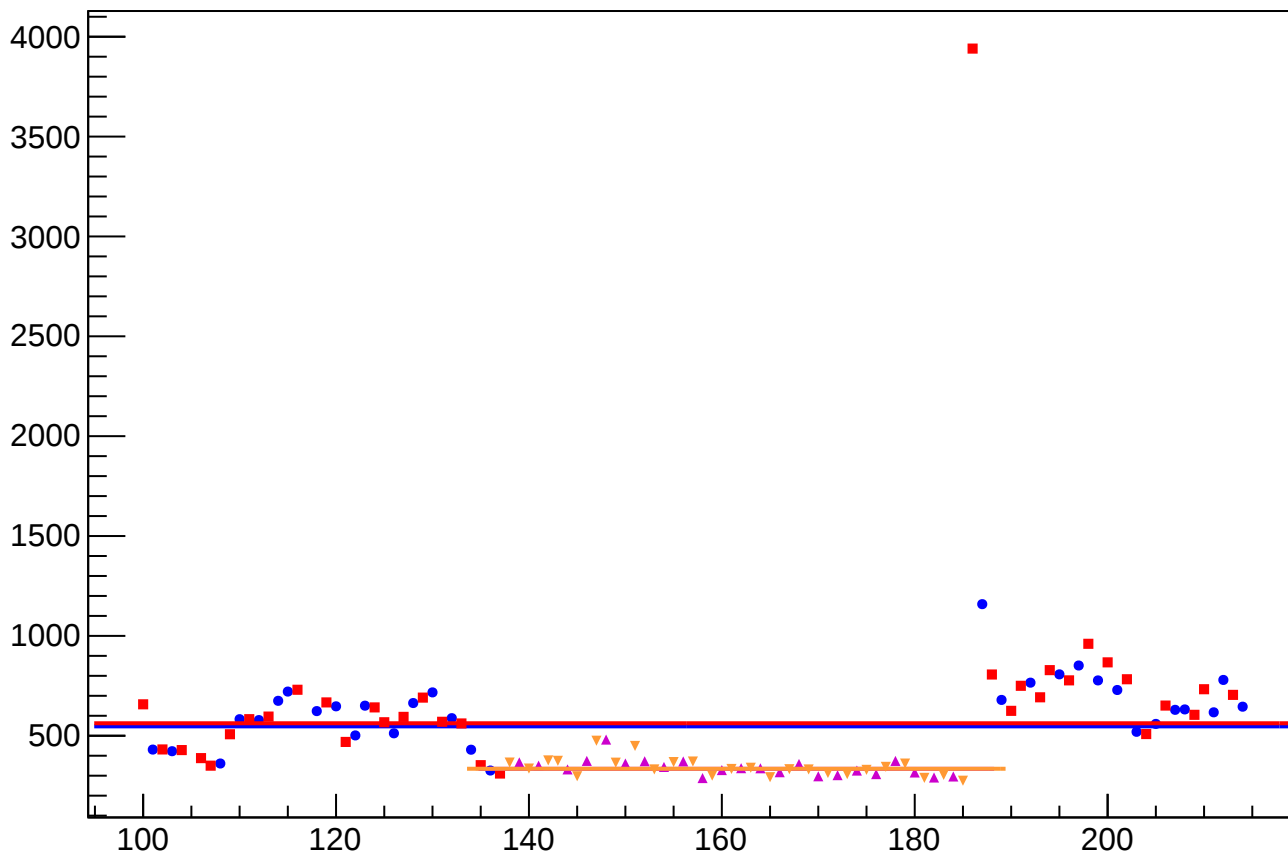
Right: -156.887 ± 99.786 χ^2/NDF : 72.0/64

In: -138.267 ± 69.801 χ^2/NDF : 77.0/53

Out: -42.876 ± 68.784 χ^2/NDF : 57.9/58

All: -89.871 ± 48.993 χ^2/NDF : 135.8/112

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 546.984 $\pm$ 0.099 χ^2 /NDF: 2456535.1/30

Left Out: 334.749 $\pm$ 0.056 χ^2 /NDF: 491370.4/24

Right Out: 562.528 $\pm$ 0.101 χ^2 /NDF: 3127171.0/33

Left In: 334.147 $\pm$ 0.057 χ^2 /NDF: 397200.6/22

Left: 334.455 $\pm$ 0.040 χ^2 /NDF: 888628.3/47

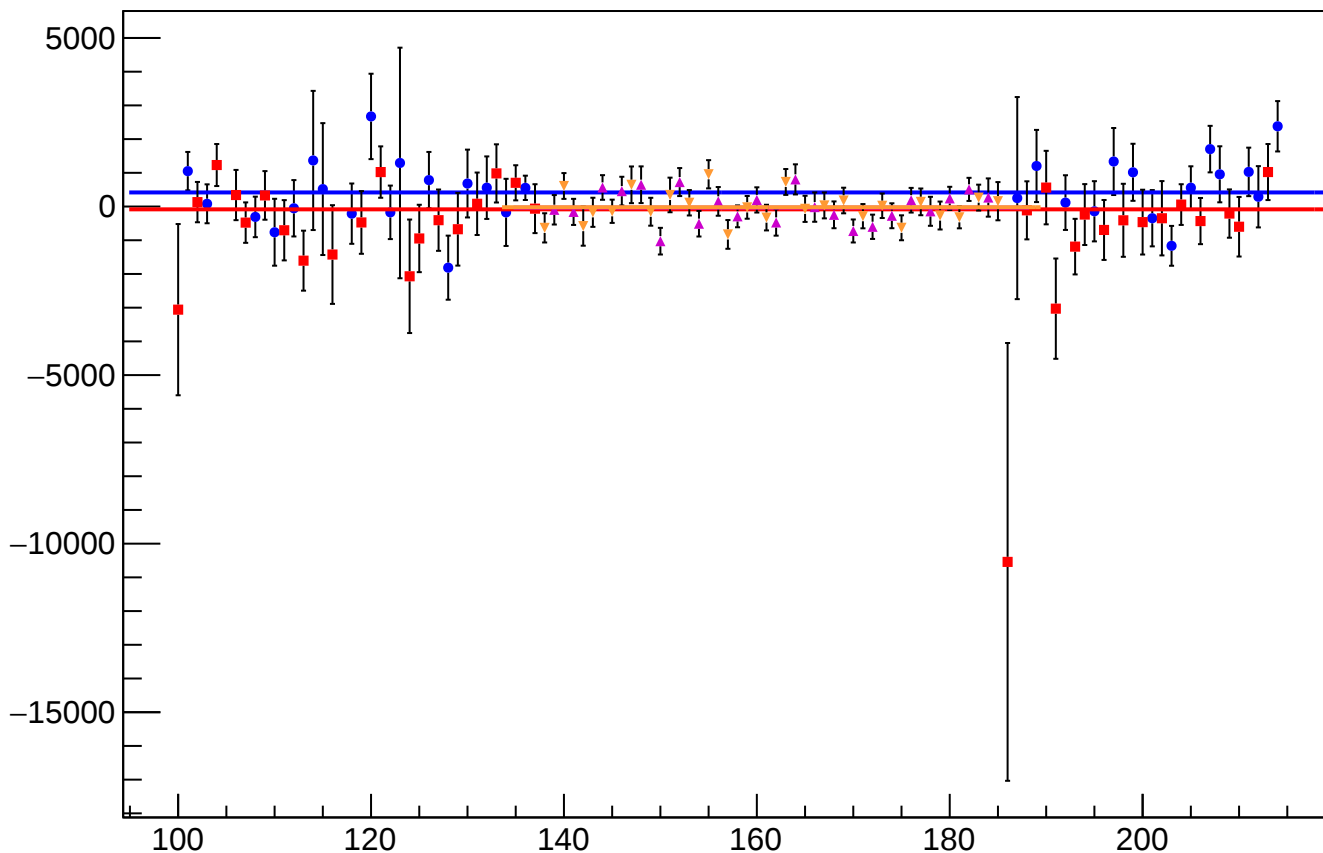
Right: 554.617 $\pm$ 0.071 χ^2 /NDF: 5595833.9/64

In: 387.150 $\pm$ 0.049 χ^2 /NDF: 6331277.6/53

Out: 387.896 $\pm$ 0.049 χ^2 /NDF: 7541950.7/58

All: 387.528 $\pm$ 0.035 χ^2 /NDF: 13873344.3/111

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 418.082 ± 141.203 χ^2/NDF : 37.6/30

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

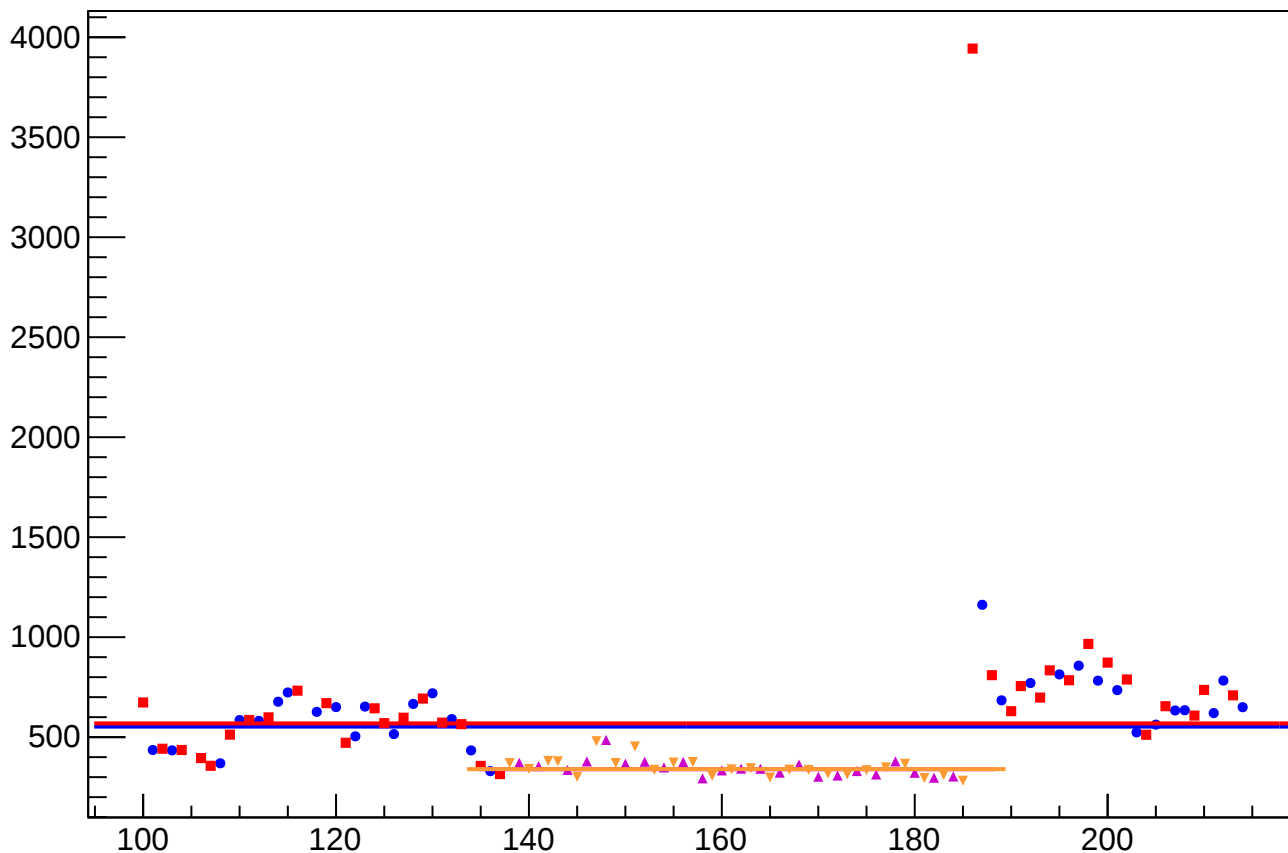
Right: 171.952 ± 100.759 χ^2/NDF : 75.7/64

In: 81.324 ± 70.806 χ^2/NDF : 79.2/53

Out: -35.610 ± 69.786 χ^2/NDF : 59.2/58

All: 22.009 ± 49.703 χ^2/NDF : 139.9/112

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 552.831 $\pm$ 0.100 χ^2 /NDF: 2388668.0/30

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 568.741 $\pm$ 0.102 χ^2 /NDF: 3056016.5/33

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

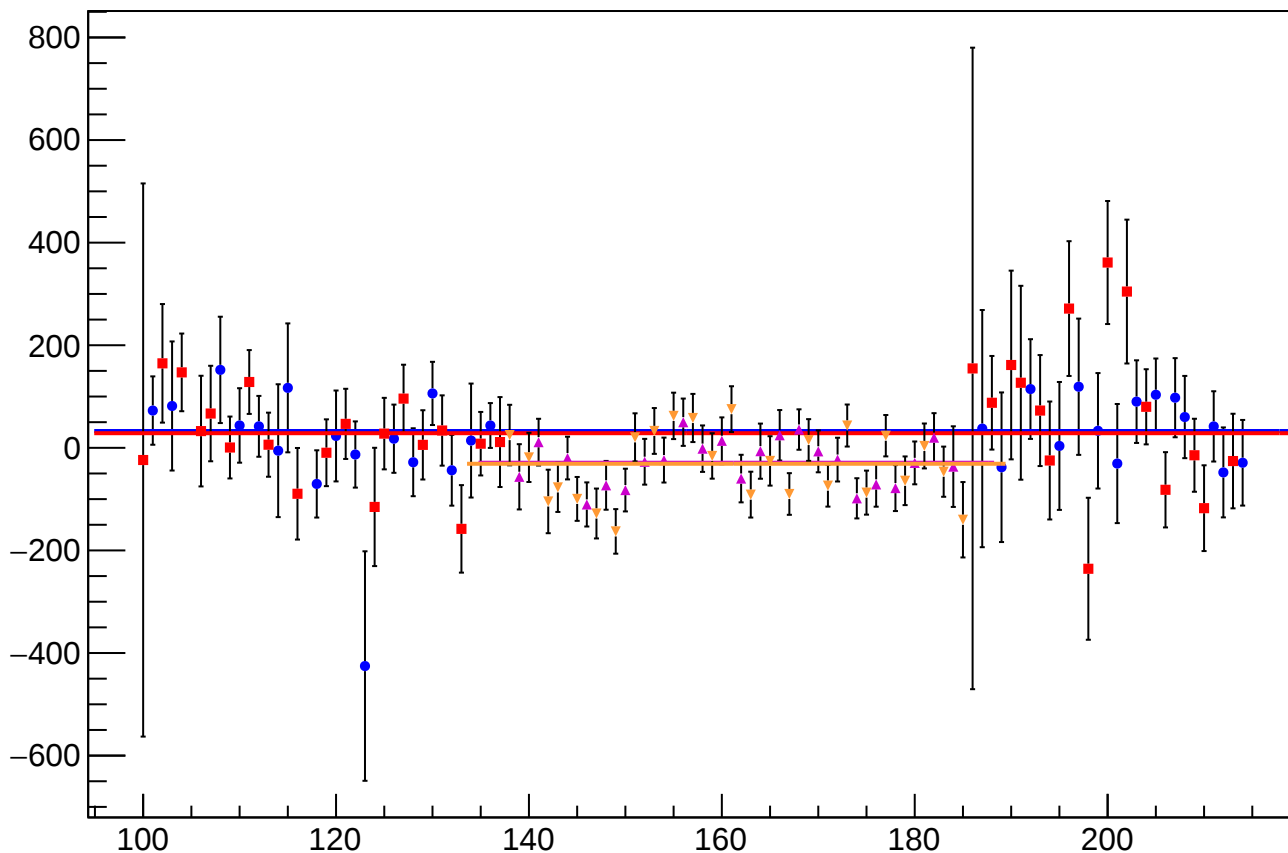
Right: 560.640 $\pm$ 0.071 χ^2 /NDF: 5457147.7/64

In: 393.233 $\pm$ 0.050 χ^2 /NDF: 6181769.0/53

Out: 394.038 $\pm$ 0.049 χ^2 /NDF: 7384770.7/58

All: 393.641 $\pm$ 0.035 χ^2 /NDF: 13566670.9/111

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 32.782 ± 14.523 $\chi^2/\text{NDF}: 18.7/30$

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 $\chi^2/\text{NDF}: 75.1/47$

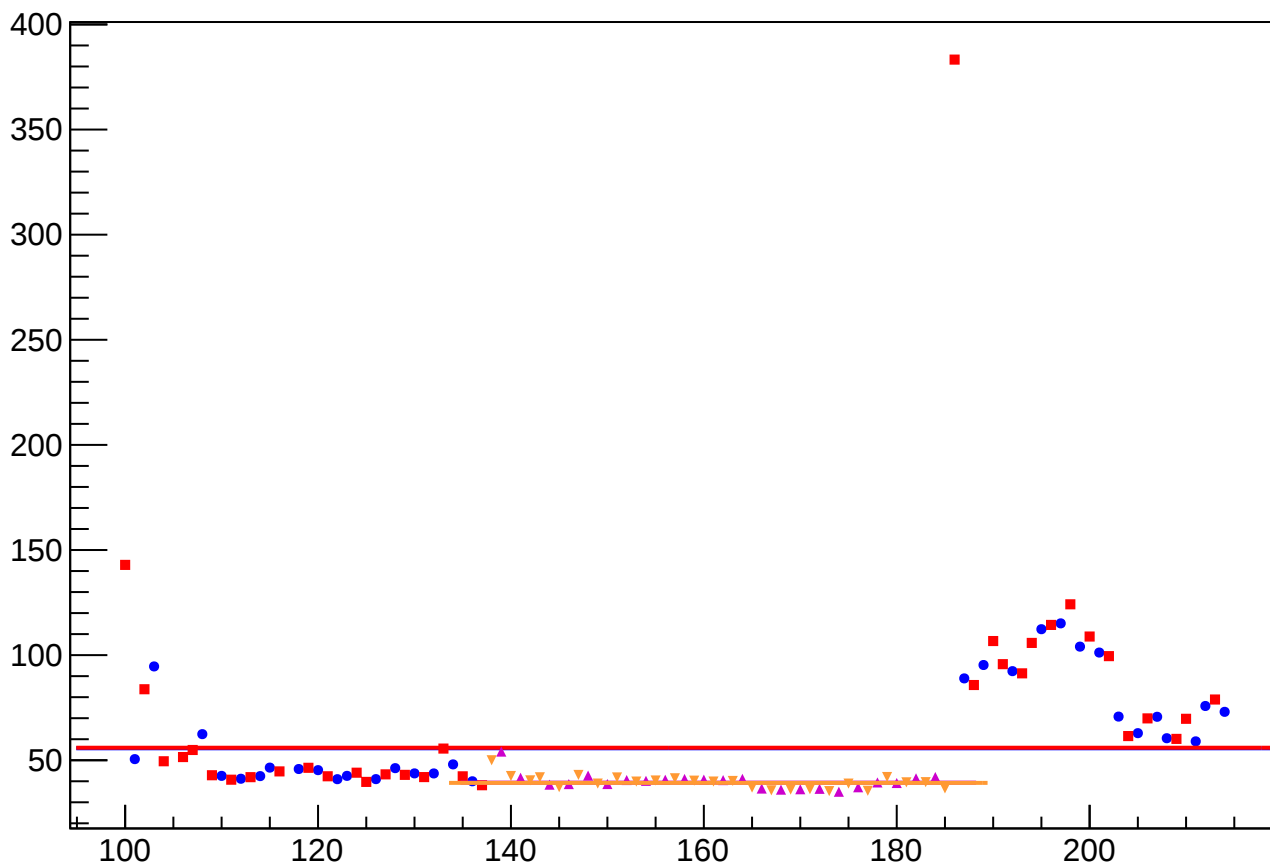
Right: 30.658 ± 10.296 $\chi^2/\text{NDF}: 62.3/64$

In: -10.663 ± 7.920 $\chi^2/\text{NDF}: 53.9/53$

Out: -14.210 ± 7.765 $\chi^2/\text{NDF}: 108.1/58$

All: -12.472 ± 5.545 $\chi^2/\text{NDF}: 162.1/112$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 55.683 $\pm$ 0.010 χ^2 /NDF: 3485752.8/30

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

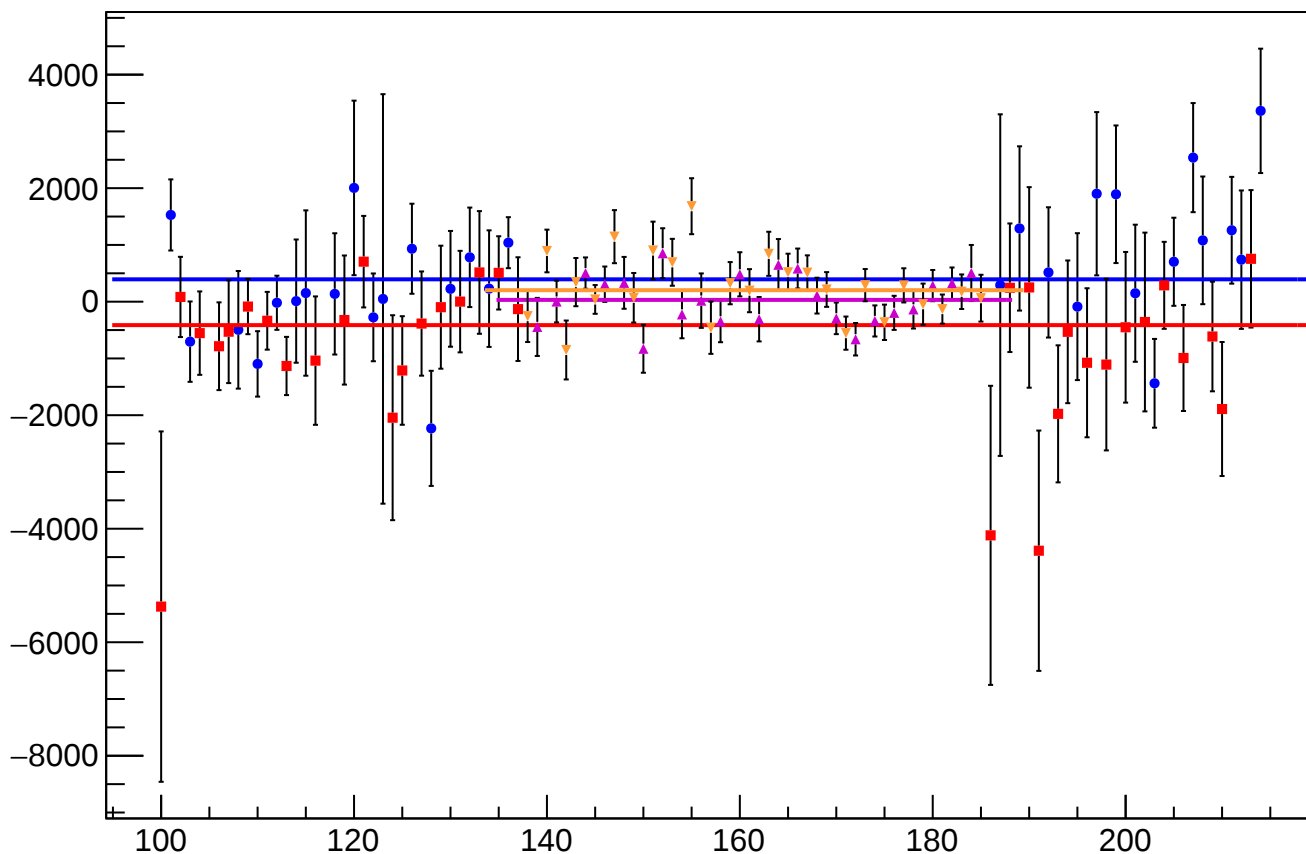
Right: 55.817 $\pm$ 0.007 χ^2 /NDF: 8003798.0/64

In: 44.200 $\pm$ 0.006 χ^2 /NDF: 5481182.7/53

Out: 43.964 $\pm$ 0.005 χ^2 /NDF: 6600008.4/58

All: 44.080 $\pm$ 0.004 χ^2 /NDF: 12082095.3/112

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 393.767 $\pm$ 158.951 χ^2 /NDF: 47.9/30

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -412.999 $\pm$ 156.051 χ^2 /NDF: 24.6/33

Left In: 31.548 $\pm$ 72.100 χ^2 /NDF:33.4/22

Left: 118.965 $\pm$ 50.380 χ^2 /NDF: 81.1/47

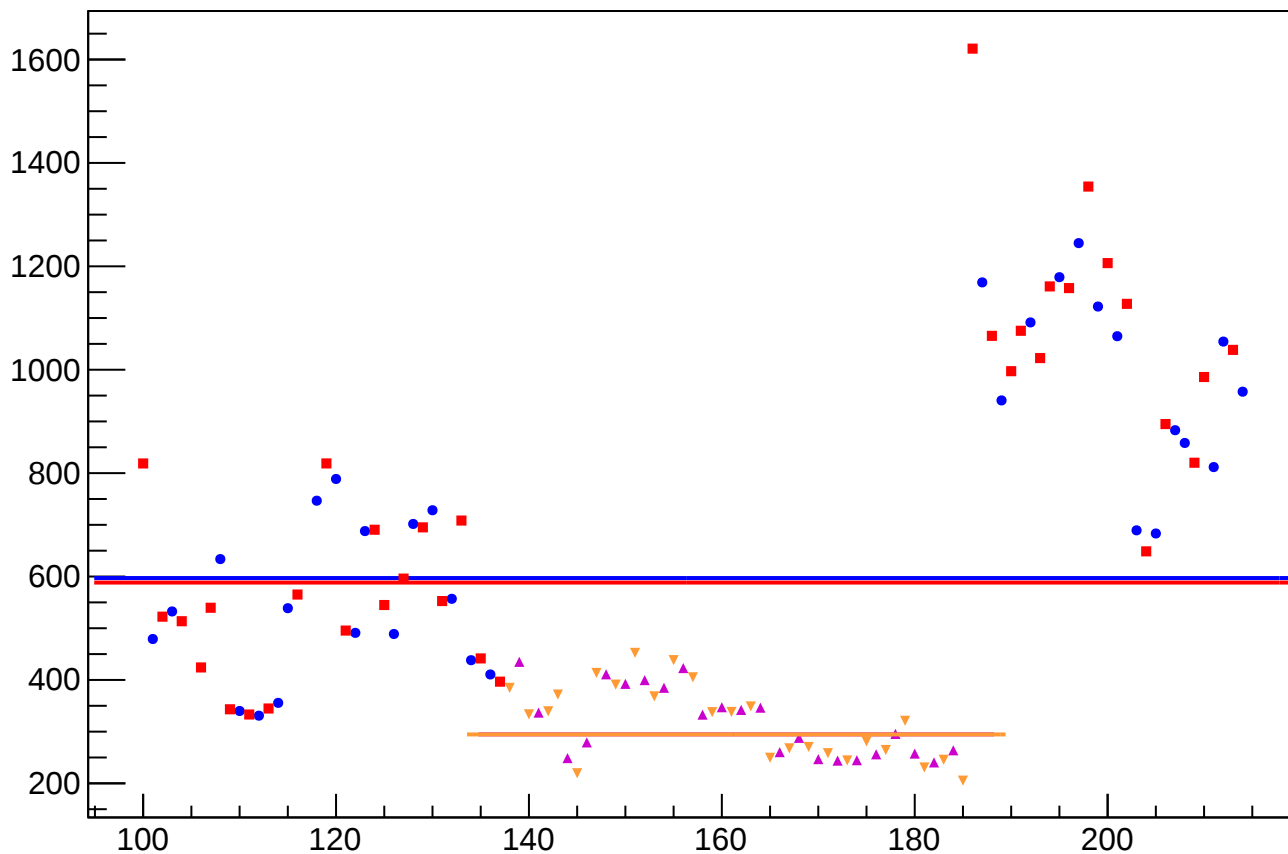
Right: -17.041 $\pm$ 111.356 χ^2 /NDF: 85.6/64

In: 93.358 $\pm$ 65.661 χ^2 /NDF:85.5/53

Out: 98.244 $\pm$ 64.192 χ^2 /NDF:82.4/58

All: 95.856 $\pm$ 45.901 χ^2 /NDF: 167.9/112

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 597.089+/-0.112 χ^2/NDF : 4792061.0/30

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

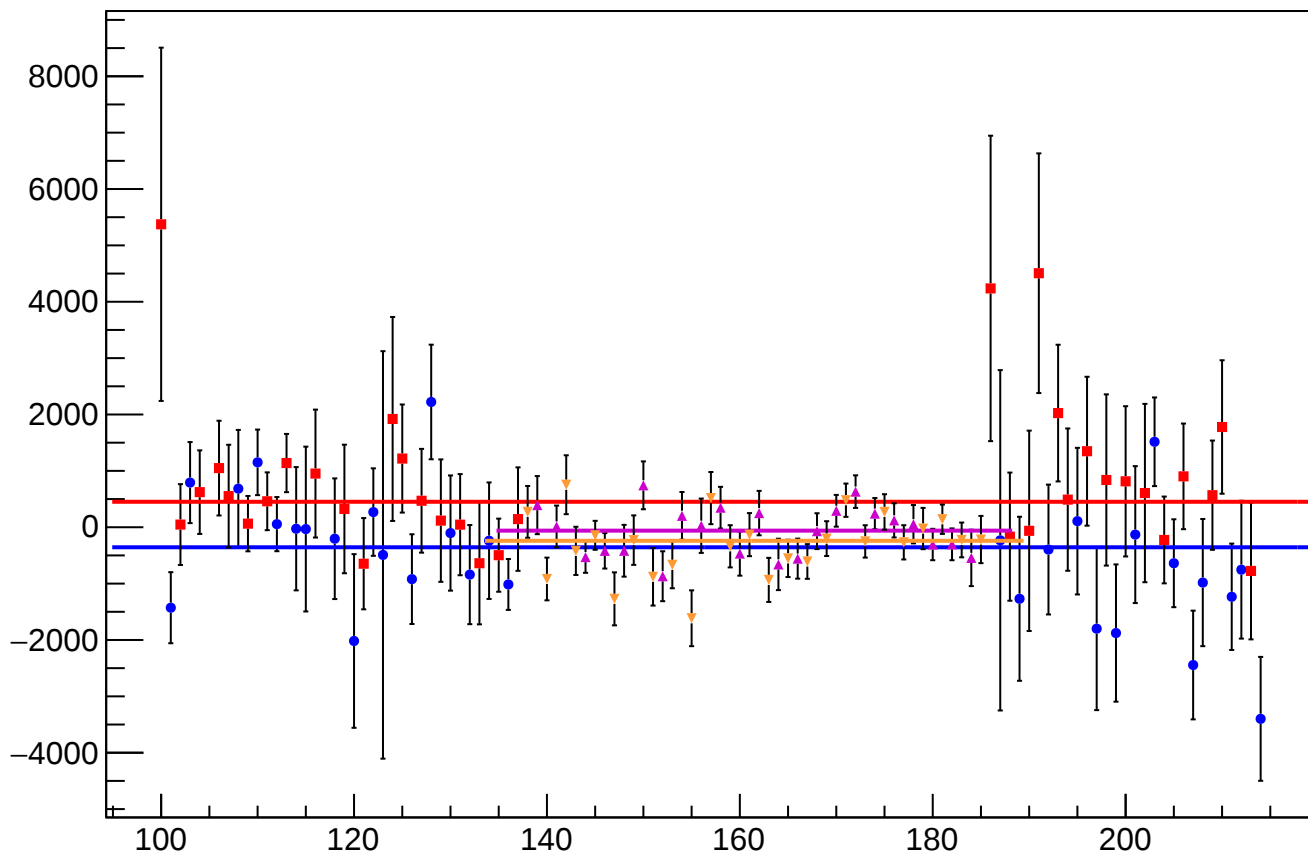
Right: 592.642+/-0.079 χ^2/NDF : 10712779.1/64

In: 346.319+/-0.046 χ^2/NDF : 12091652.9/53

Out: 344.299+/-0.045 χ^2/NDF : 13486382.9/58

All: 345.286+/-0.032 χ^2/NDF : 25579003.3/111

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -355.408 ± 159.837 $\chi^2/\text{NDF}: 47.9/30$

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 $\chi^2/\text{NDF}: 77.0/47$

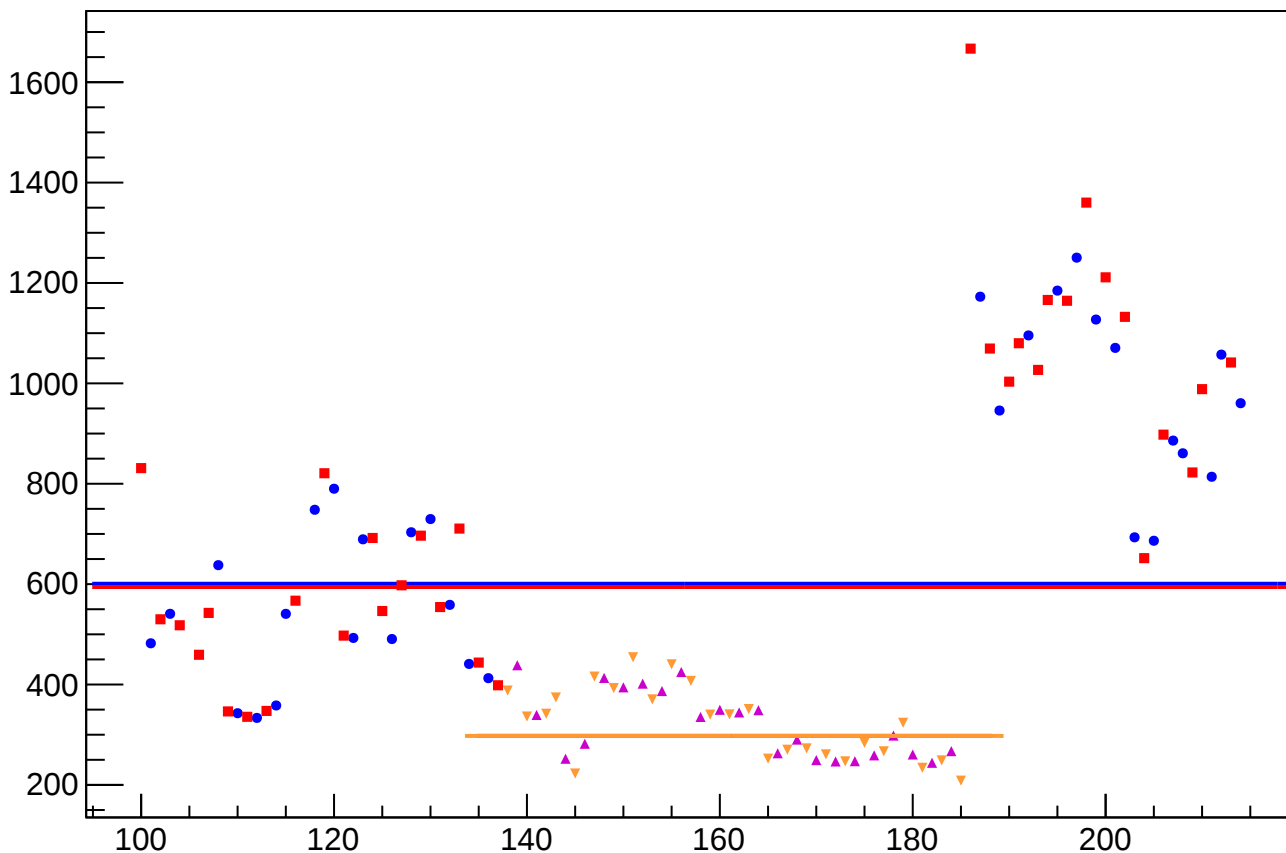
Right: 54.201 ± 112.168 $\chi^2/\text{NDF}: 85.0/64$

In: -111.012 ± 66.243 $\chi^2/\text{NDF}: 81.6/53$

Out: -123.141 ± 64.800 $\chi^2/\text{NDF}: 83.2/58$

All: -117.210 ± 46.322 $\chi^2/\text{NDF}: 164.8/112$

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 600.753+/-0.113 χ^2/NDF : 4762163.6/30

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

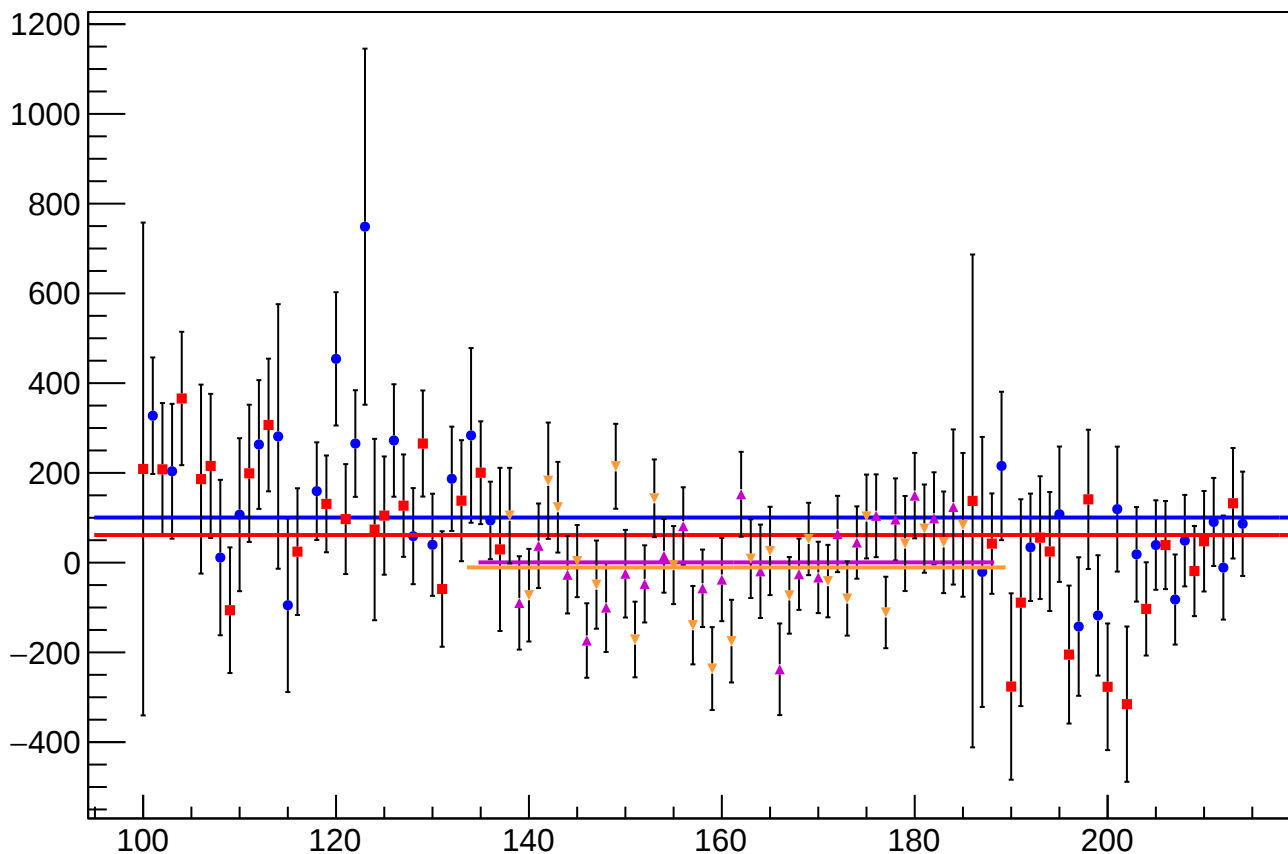
Right: 597.476+/-0.079 χ^2/NDF : 10613103.8/64

In: 349.752+/-0.047 χ^2/NDF :11983349.7/53

Out: 347.866+/-0.046 χ^2/NDF :13385568.1/58

All: 348.788+/-0.033 χ^2/NDF : 25369746.1/111

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 100.517 ± 23.083 χ^2/NDF : 32.4/30

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

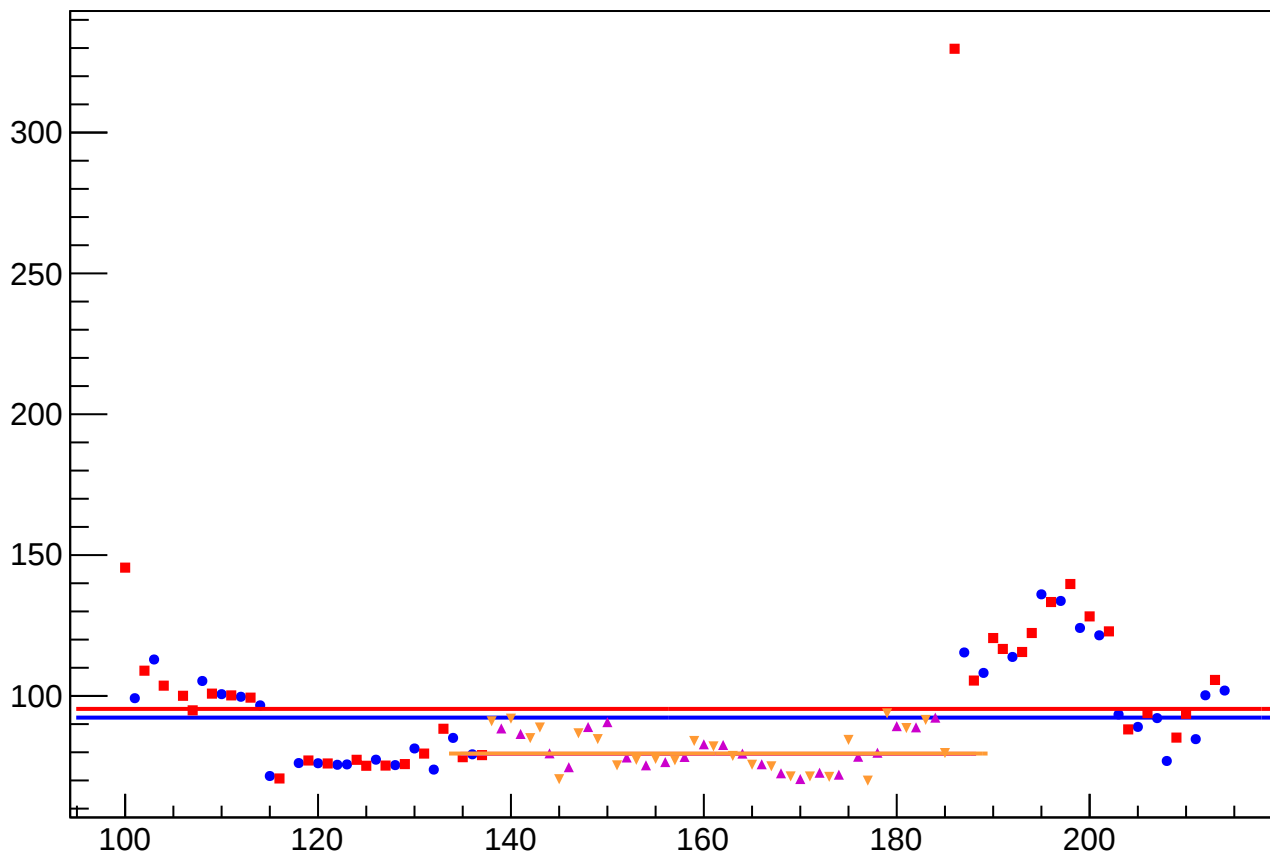
Right: 81.444 ± 16.504 χ^2/NDF : 72.5/64

In: 41.170 ± 14.712 χ^2/NDF : 67.3/53

Out: 16.990 ± 14.615 χ^2/NDF : 80.8/58

All: 29.000 ± 10.368 χ^2/NDF : 149.4/112

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.308+/-0.016 χ^2/NDF : 1085590.3/30

Left Out: 79.551+/-0.013 χ^2/NDF : 309075.2/24

Right Out: 95.399+/-0.017 χ^2/NDF : 1535222.8/33

Left In: 79.436+/-0.013 χ^2/NDF : 212440.1/22

Left: 79.495+/-0.009 χ^2/NDF : 521552.2/47

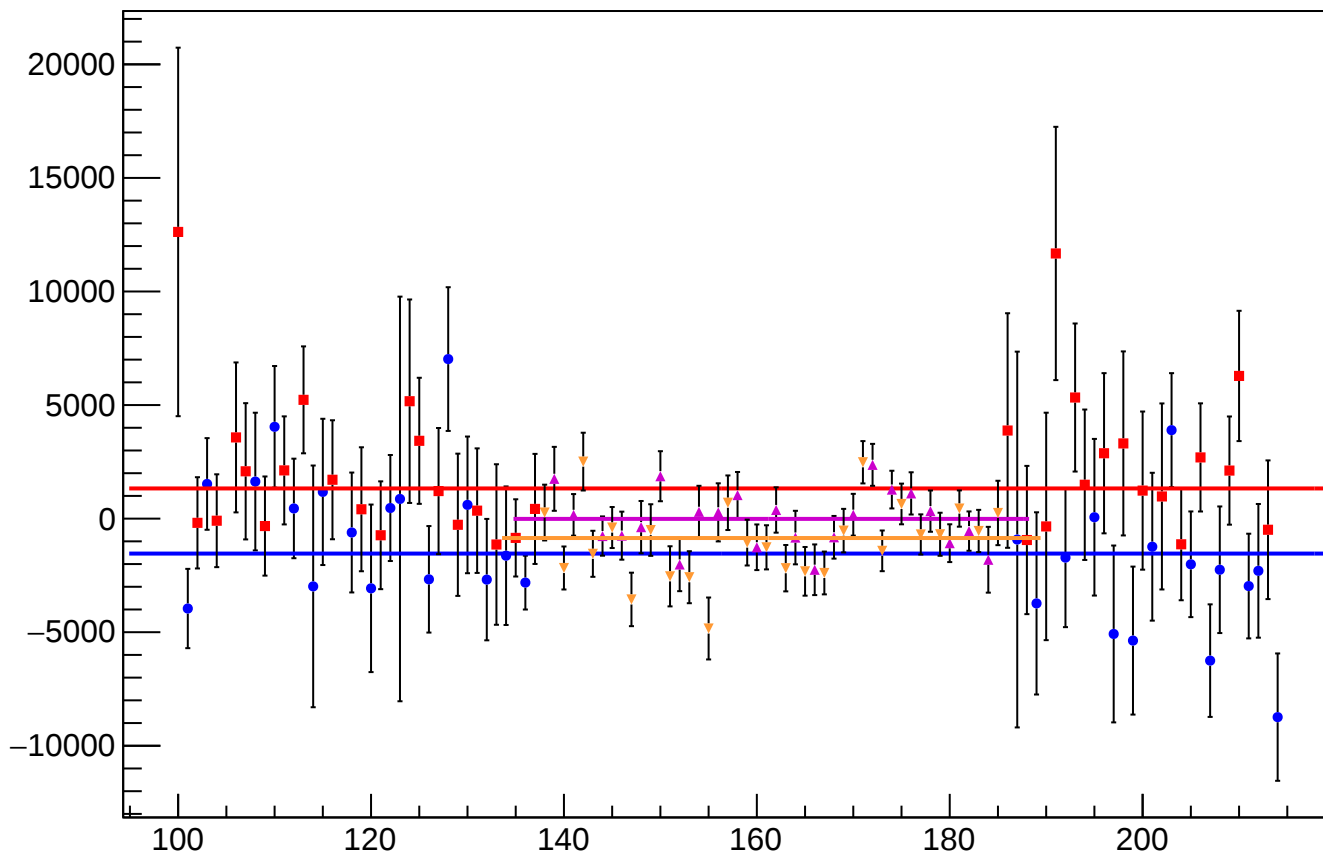
Right: 93.819+/-0.012 χ^2/NDF : 2638335.7/64

In: 84.665+/-0.010 χ^2/NDF : 1667324.2/53

Out: 85.625+/-0.010 χ^2/NDF : 2400184.6/58

All: 85.148+/-0.007 χ^2/NDF : 4071795.0/112

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1538.487 ± 470.595 $\chi^2/\text{NDF}: 40.0/30$

Left Out: -854.130 ± 204.090 $\chi^2/\text{NDF}: 56.0/24$

Right Out: 1328.785 ± 482.824 $\chi^2/\text{NDF}: 22.8/33$

Left In: -11.687 ± 210.073 $\chi^2/\text{NDF}: 31.2/22$

Left: -445.076 ± 146.383 $\chi^2/\text{NDF}: 95.5/47$

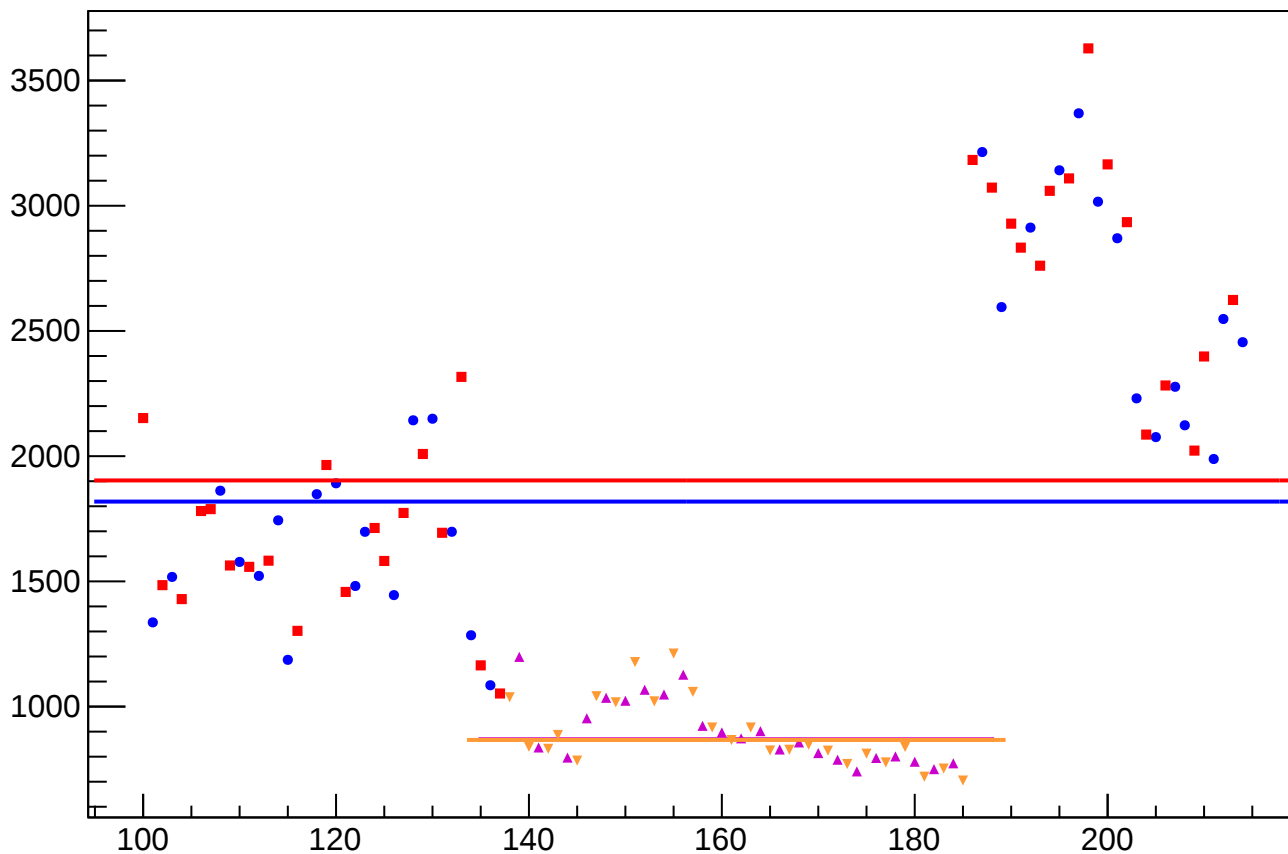
Right: -141.622 ± 337.001 $\chi^2/\text{NDF}: 80.9/64$

In: -265.382 ± 191.828 $\chi^2/\text{NDF}: 80.0/53$

Out: -523.221 ± 187.986 $\chi^2/\text{NDF}: 96.1/58$

All: -396.909 ± 134.264 $\chi^2/\text{NDF}: 177.0/112$

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1818.633+/-0.333 χ^2/NDF : 3183567.6/30

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

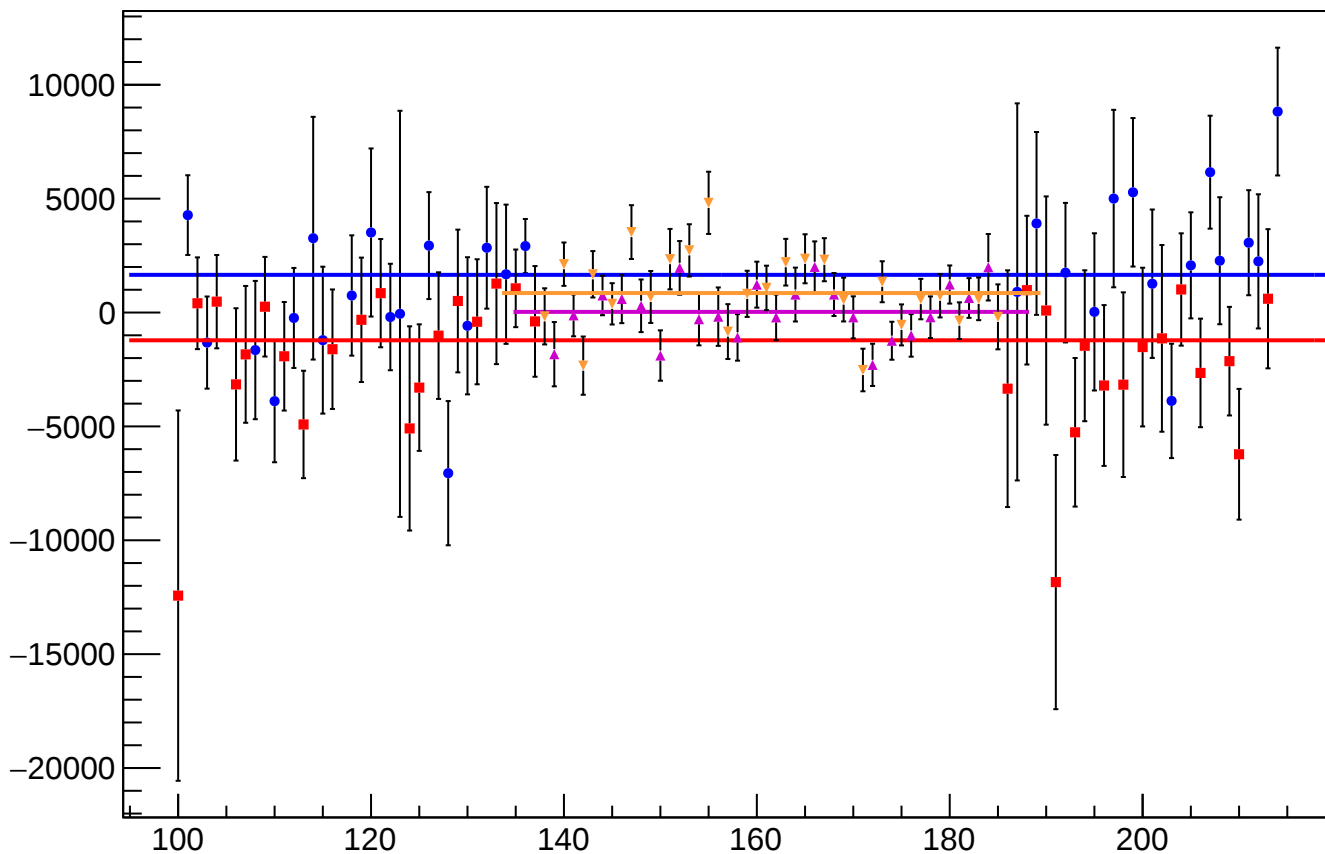
Right: 1859.790+/-0.238 χ^2/NDF : 6546705.8/64

In: 1027.266+/-0.136 χ^2/NDF : 10548672.8/53

Out: 1023.974+/-0.133 χ^2/NDF : 11809048.5/58

All: 1025.587+/-0.095 χ^2/NDF : 22358021.7/111

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1654.459 $\pm$ 471.373 χ^2 /NDF: 40.0/30

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

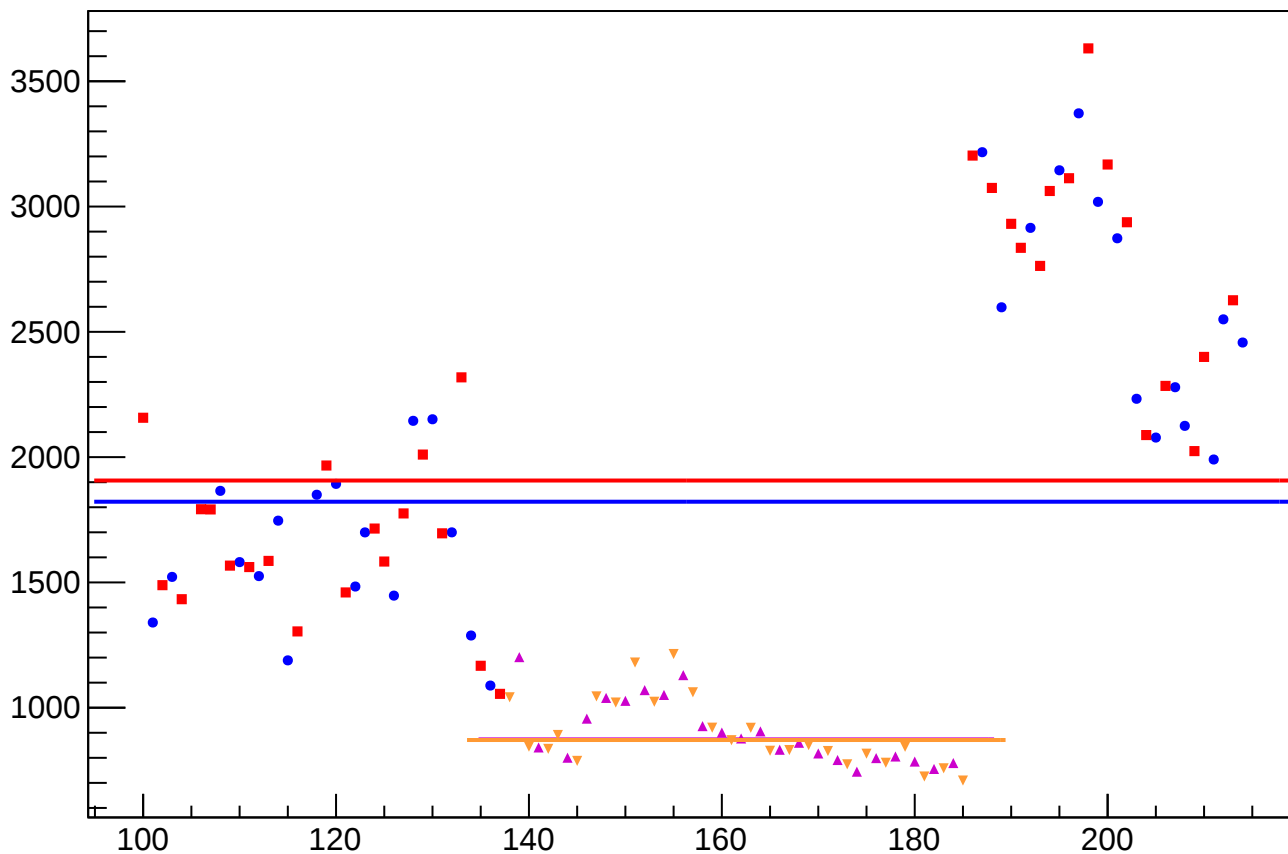
Right: 254.706 $\pm$ 337.589 χ^2 /NDF: 80.8/64

In: 300.029 $\pm$ 192.612 χ^2 /NDF:79.6/53

Out: 539.603 $\pm$ 188.785 χ^2 /NDF:92.4/58

All: 422.219 $\pm$ 134.824 χ^2 /NDF: 172.8/112

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1822.067 $\pm$ 0.333 χ^2 /NDF: 3170273.6/30

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

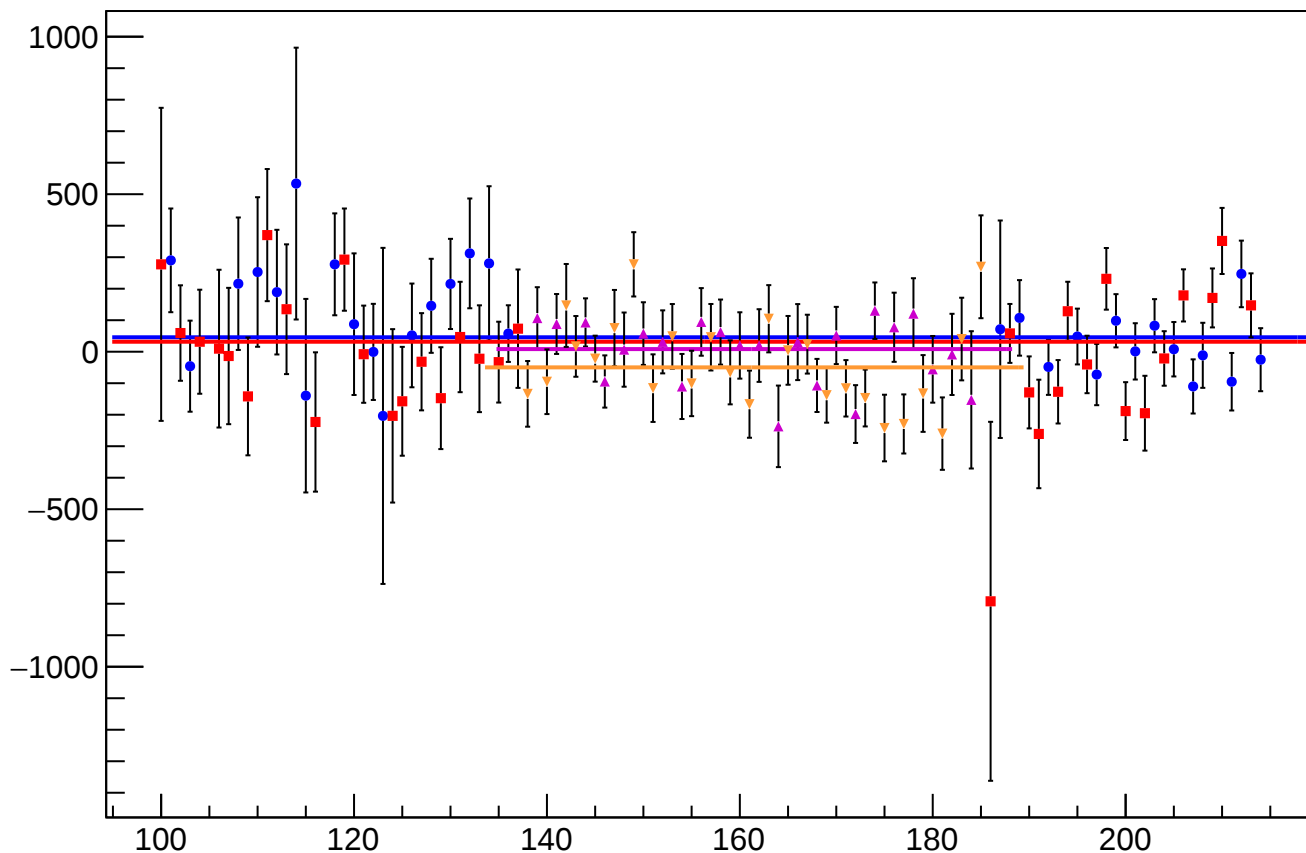
Right: 1863.273 $\pm$ 0.239 χ^2 /NDF: 6524009.7/64

In: 1032.027 $\pm$ 0.136 χ^2 /NDF: 10488408.4/53

Out: 1028.848 $\pm$ 0.133 χ^2 /NDF: 11744370.5/58

All: 1030.406 $\pm$ 0.095 χ^2 /NDF: 22233056.8/111

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 45.805 $\pm$ 21.866 χ^2 /NDF: 27.7/30

Left Out: -49.717 $\pm$ 20.580 χ^2 /NDF:39.4/24

Right Out: 31.721 $\pm$ 22.269 χ^2 /NDF: 52.9/33

Left In: 8.343 $\pm$ 21.271 χ^2 /NDF:22.0/22

Left: -21.646 $\pm$ 14.791 χ^2 /NDF: 65.3/47

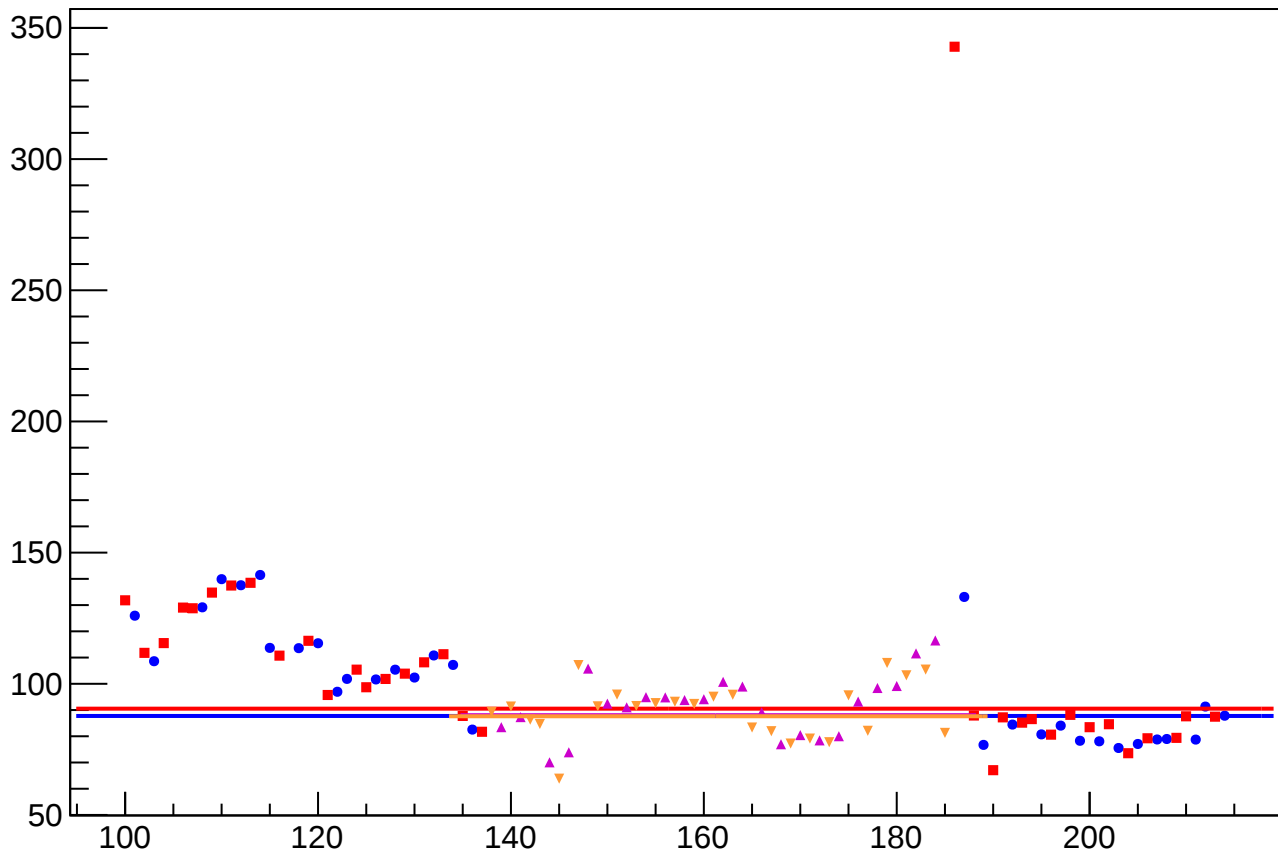
Right: 38.892 $\pm$ 15.602 χ^2 /NDF: 80.8/64

In: 26.558 $\pm$ 15.247 χ^2 /NDF:51.2/53

Out: -12.204 $\pm$ 15.114 χ^2 /NDF:99.5/58

All: 7.007 $\pm$ 10.734 χ^2 /NDF: 154.0/112

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 87.740 $\pm$ 0.015 χ^2 /NDF: 951835.9/30

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

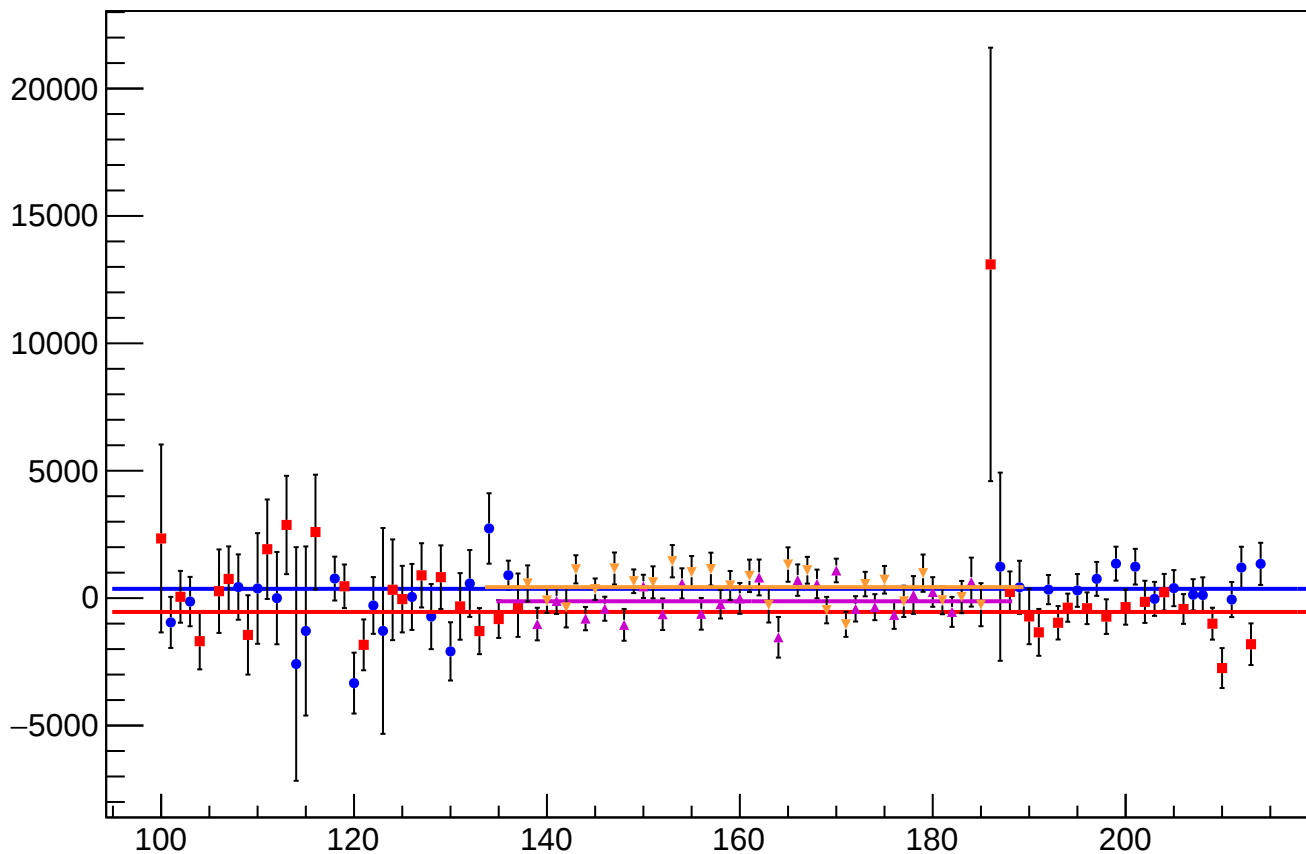
Right: 89.106 $\pm$ 0.011 χ^2 /NDF: 2332768.5/64

In: 87.890 $\pm$ 0.011 χ^2 /NDF: 1475730.8/53

Out: 88.960 $\pm$ 0.011 χ^2 /NDF: 1937977.7/58

All: 88.430 $\pm$ 0.008 χ^2 /NDF: 3418680.0/112

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 364.975 $\pm$ 159.263 χ^2 /NDF: 29.9/30

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -542.101 $\pm$ 156.613 χ^2 /NDF: 34.4/33

Left In: -123.017 $\pm$ 118.849 χ^2 /NDF:29.3/22

Left: 161.753 $\pm$ 82.905 χ^2 /NDF: 70.9/47

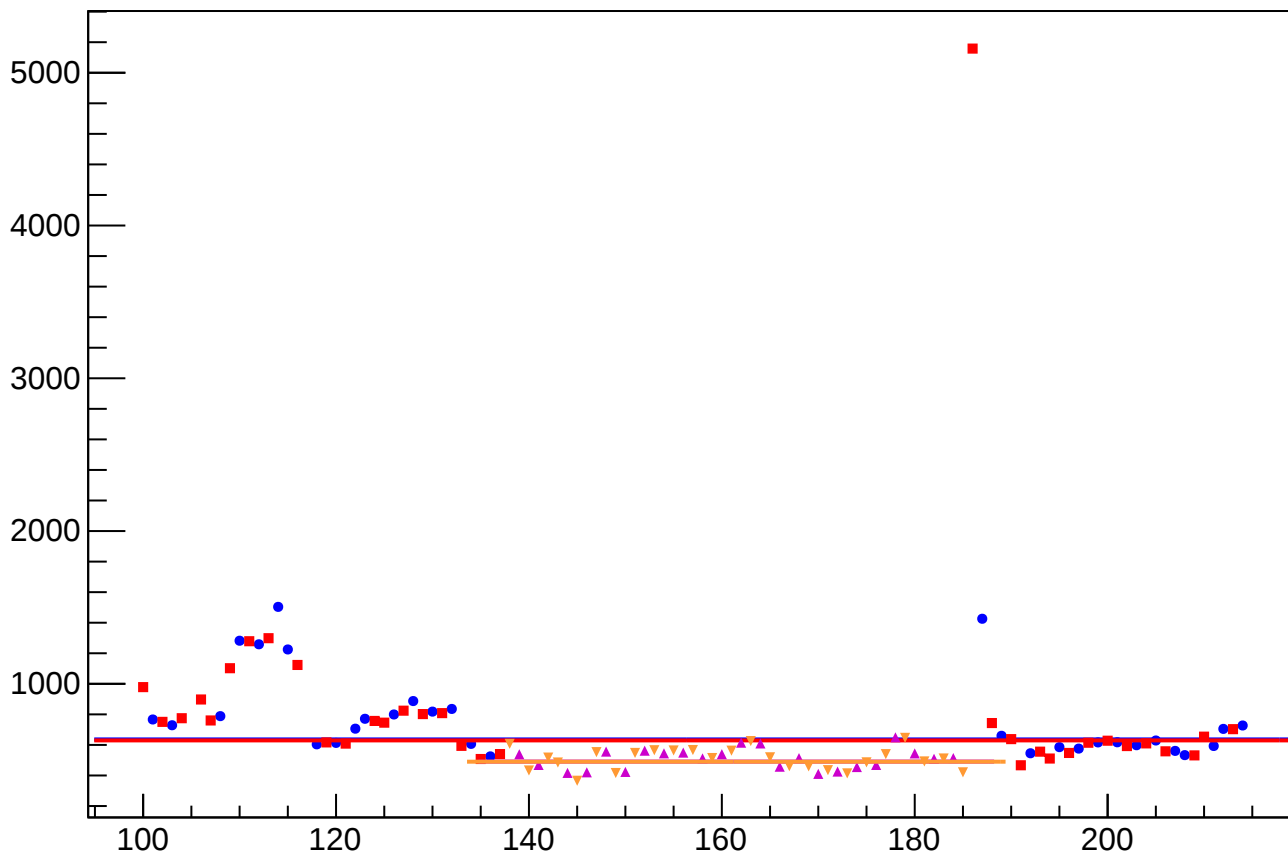
Right: -96.170 $\pm$ 111.667 χ^2 /NDF: 80.8/64

In: 51.534 $\pm$ 95.251 χ^2 /NDF:65.2/53

Out: 87.827 $\pm$ 93.062 χ^2 /NDF:89.9/58

All: 70.102 $\pm$ 66.565 χ^2 /NDF: 155.1/112

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 636.063+/-0.113 χ^2/NDF : 1225333.9/30

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

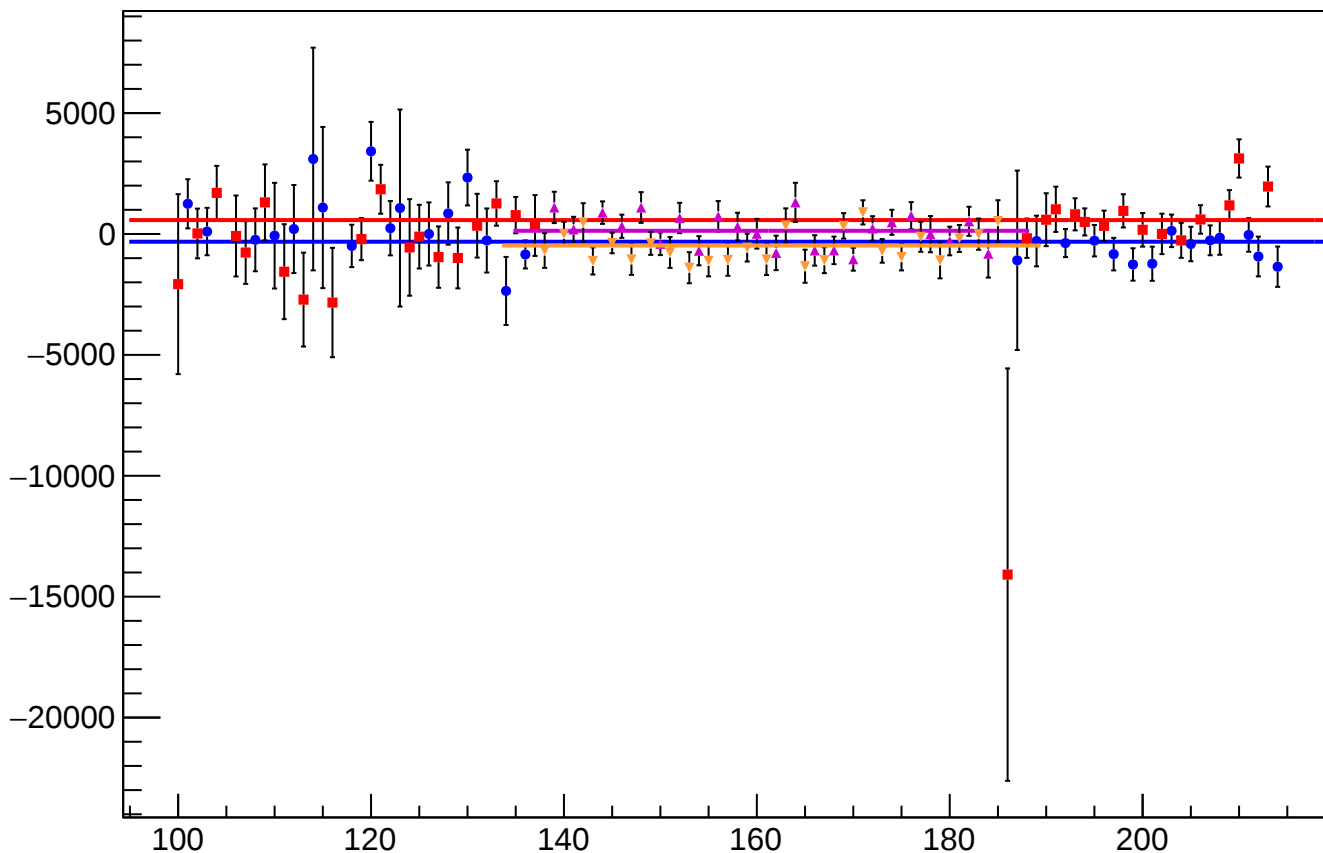
Right: 632.792+/-0.079 χ^2/NDF : 3265631.4/64

In: 542.830+/-0.067 χ^2/NDF : 2881655.6/53

Out: 539.475+/-0.066 χ^2/NDF : 3813403.4/58

All: 541.113+/-0.047 χ^2/NDF : 6696328.0/112

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -319.779 ± 160.922 $\chi^2/\text{NDF}: 29.4/30$

Left Out: -478.197 ± 117.659 $\chi^2/\text{NDF}: 27.8/24$

Right Out: 575.274 ± 158.404 $\chi^2/\text{NDF}: 37.2/33$

Left In: 132.543 ± 120.866 $\chi^2/\text{NDF}: 29.5/22$

Left: -181.037 ± 84.308 $\chi^2/\text{NDF}: 70.5/47$

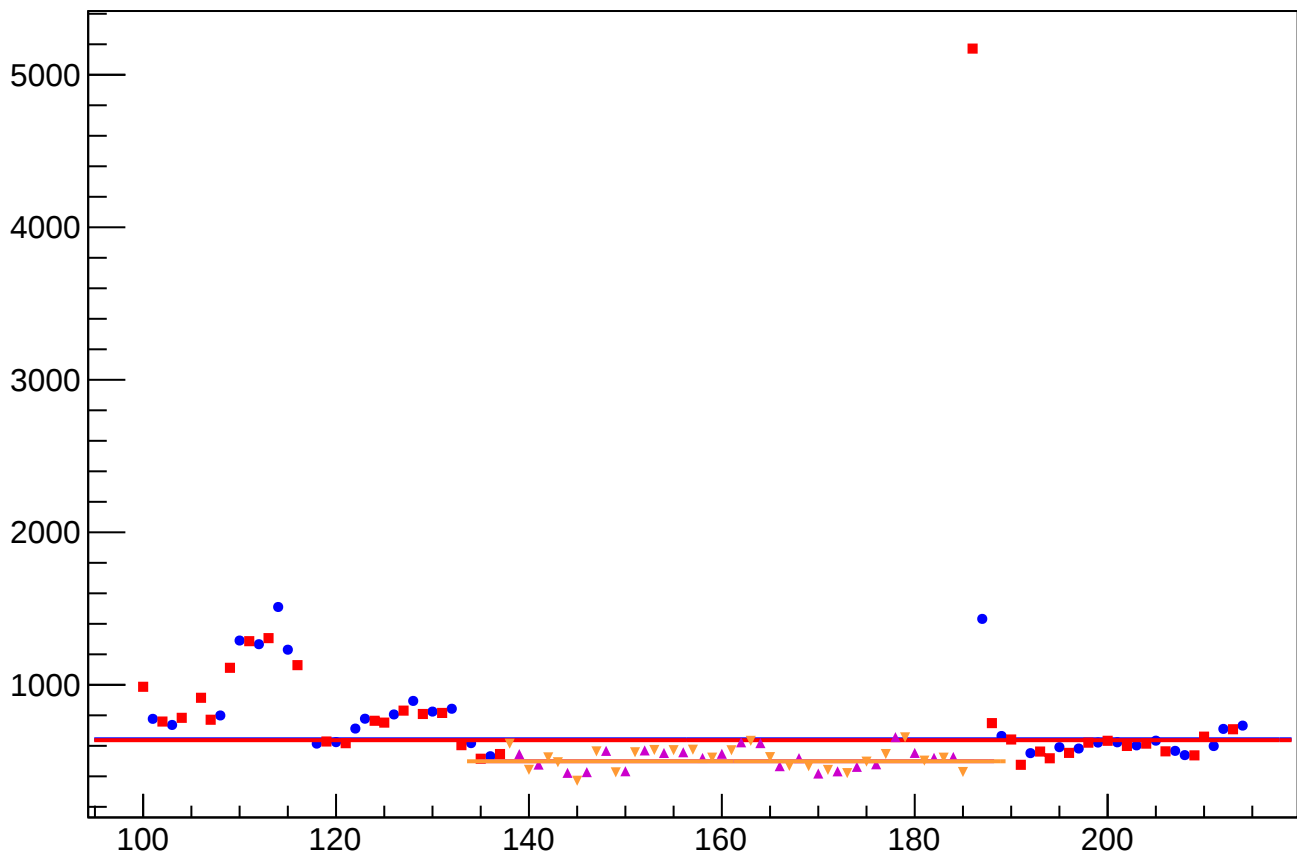
Right: 134.805 ± 112.888 $\chi^2/\text{NDF}: 82.3/64$

In: -30.594 ± 96.642 $\chi^2/\text{NDF}: 64.0/53$

Out: -103.632 ± 94.454 $\chi^2/\text{NDF}: 93.5/58$

All: -67.949 ± 67.549 $\chi^2/\text{NDF}: 157.8/112$

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 642.862 $\pm$ 0.114 χ^2 /NDF: 1213184.0/30

Left Out: 498.754 $\pm$ 0.083 χ^2 /NDF: 734302.8/24

Right Out: 637.075 $\pm$ 0.112 χ^2 /NDF: 2017452.6/33

Left In: 499.393 $\pm$ 0.085 χ^2 /NDF: 576539.2/22

Left: 499.065 $\pm$ 0.060 χ^2 /NDF: 1310870.7/47

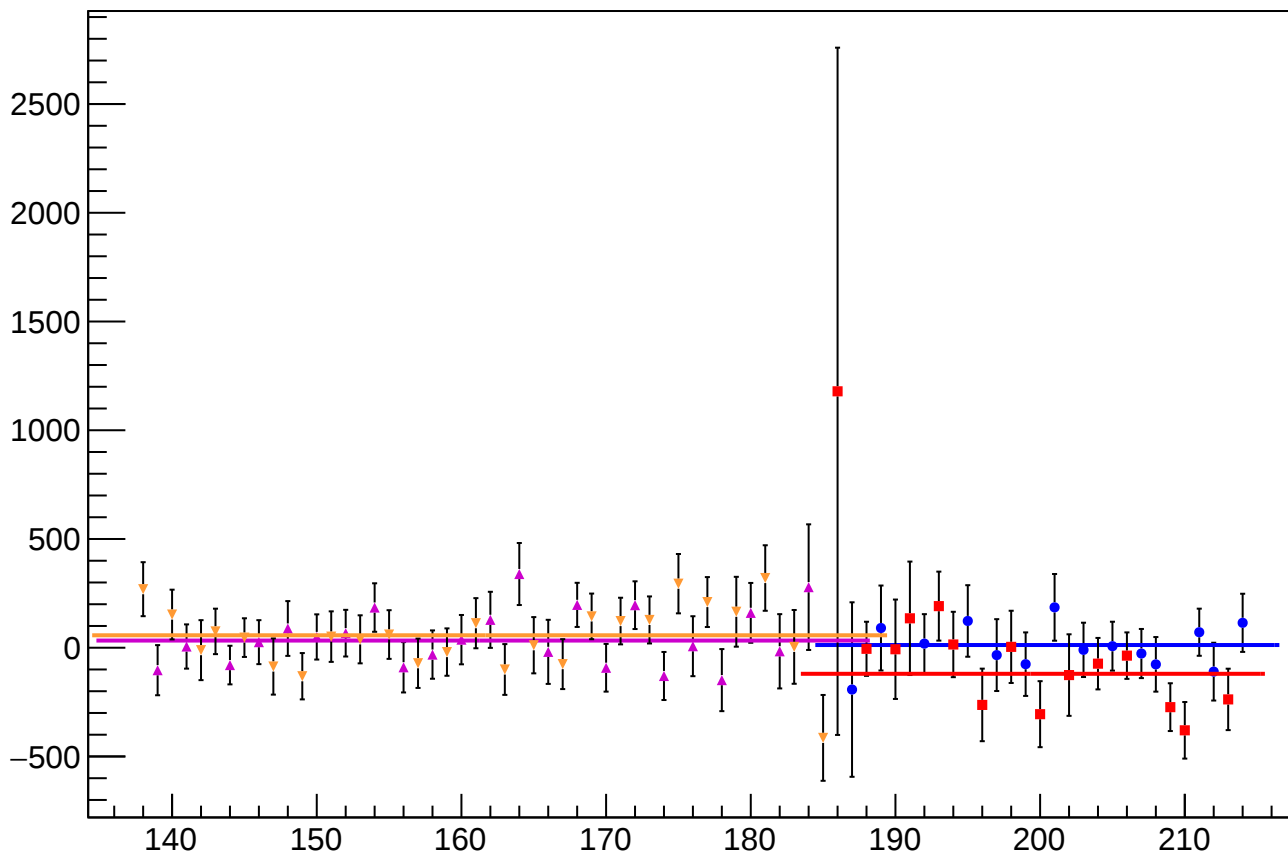
Right: 639.923 $\pm$ 0.080 χ^2 /NDF: 3231950.3/64

In: 551.137 $\pm$ 0.068 χ^2 /NDF: 2806071.2/53

Out: 547.935 $\pm$ 0.067 χ^2 /NDF: 3734535.0/58

All: 549.499 $\pm$ 0.048 χ^2 /NDF: 6541729.7/112

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 12.436 ± 36.944 $\chi^2/\text{NDF}: 5.0/13$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -119.913 ± 38.406 $\chi^2/\text{NDF}: 17.6/14$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

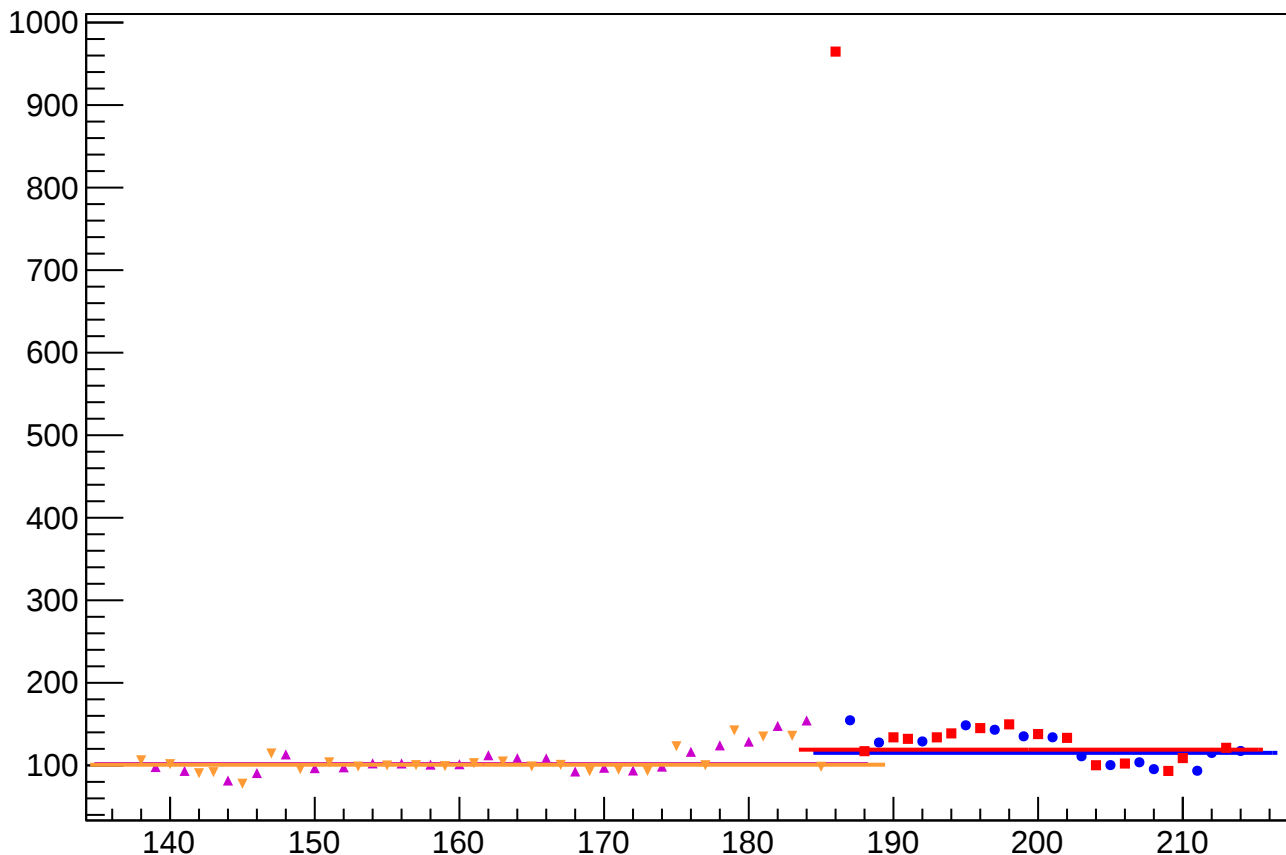
Right: -51.173 ± 26.625 $\chi^2/\text{NDF}: 28.7/28$

In: 26.652 ± 20.469 $\chi^2/\text{NDF}: 28.8/36$

Out: 8.322 ± 20.177 $\chi^2/\text{NDF}: 62.2/39$

All: 17.355 ± 14.369 $\chi^2/\text{NDF}: 91.4/76$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 115.180 $\pm$ 0.026 χ^2 /NDF: 443810.3/13

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

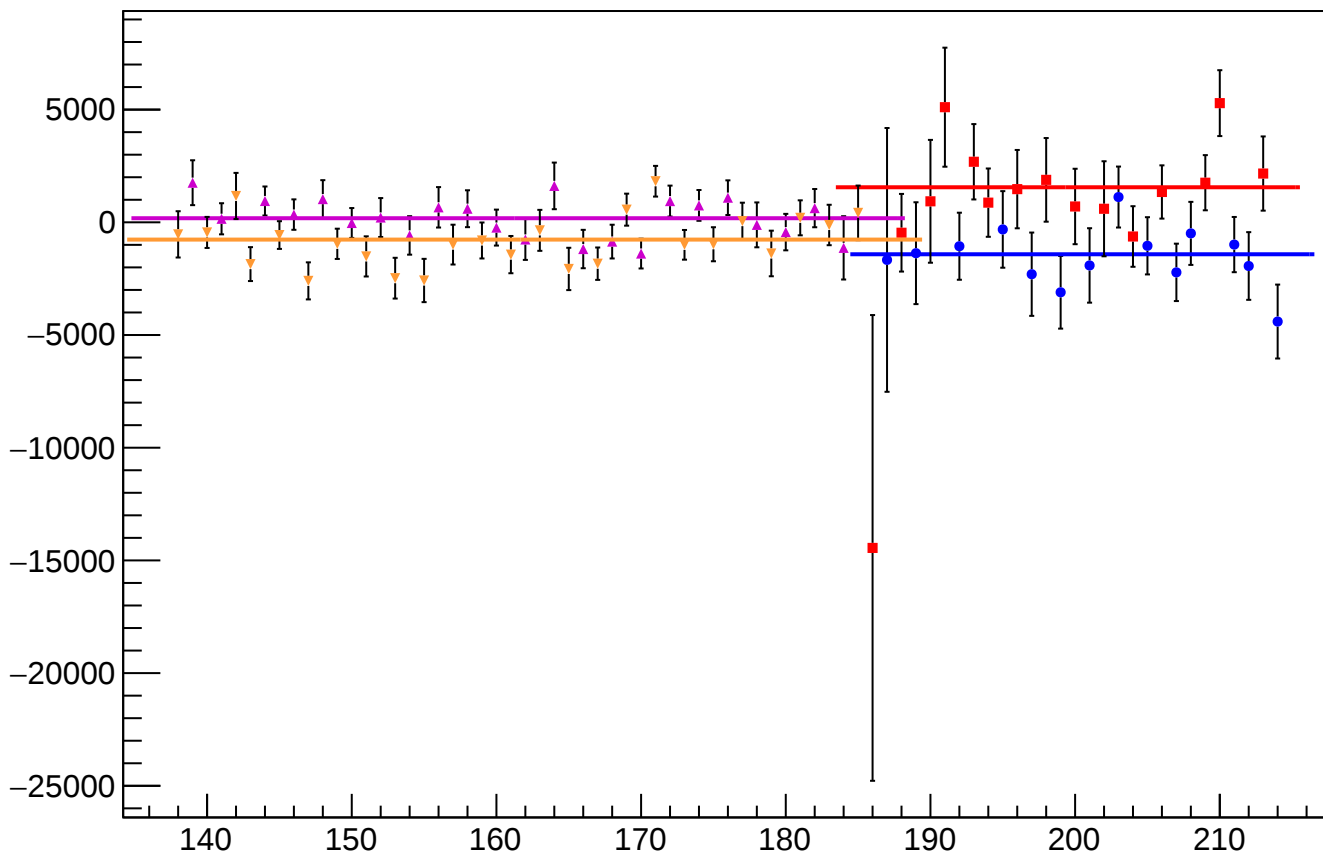
Right: 117.026 $\pm$ 0.019 χ^2 /NDF: 1476435.6/28

In: 105.784 $\pm$ 0.014 χ^2 /NDF: 1212823.4/36

Out: 105.829 $\pm$ 0.014 χ^2 /NDF: 1948621.3/39

All: 105.807 $\pm$ 0.010 χ^2 /NDF: 3161449.8/76

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1417.497 $\pm$ 413.625 χ^2/NDF : 9.9/13

Left Out: -766.358 $\pm$ 161.066 χ^2/NDF : 46.5/24

Right Out: 1554.933 $\pm$ 430.462 χ^2/NDF : 16.2/14

Left In: 181.584 $\pm$ 165.671 χ^2/NDF : 25.0/22

Left: -305.743 $\pm$ 115.485 χ^2/NDF : 88.4/47

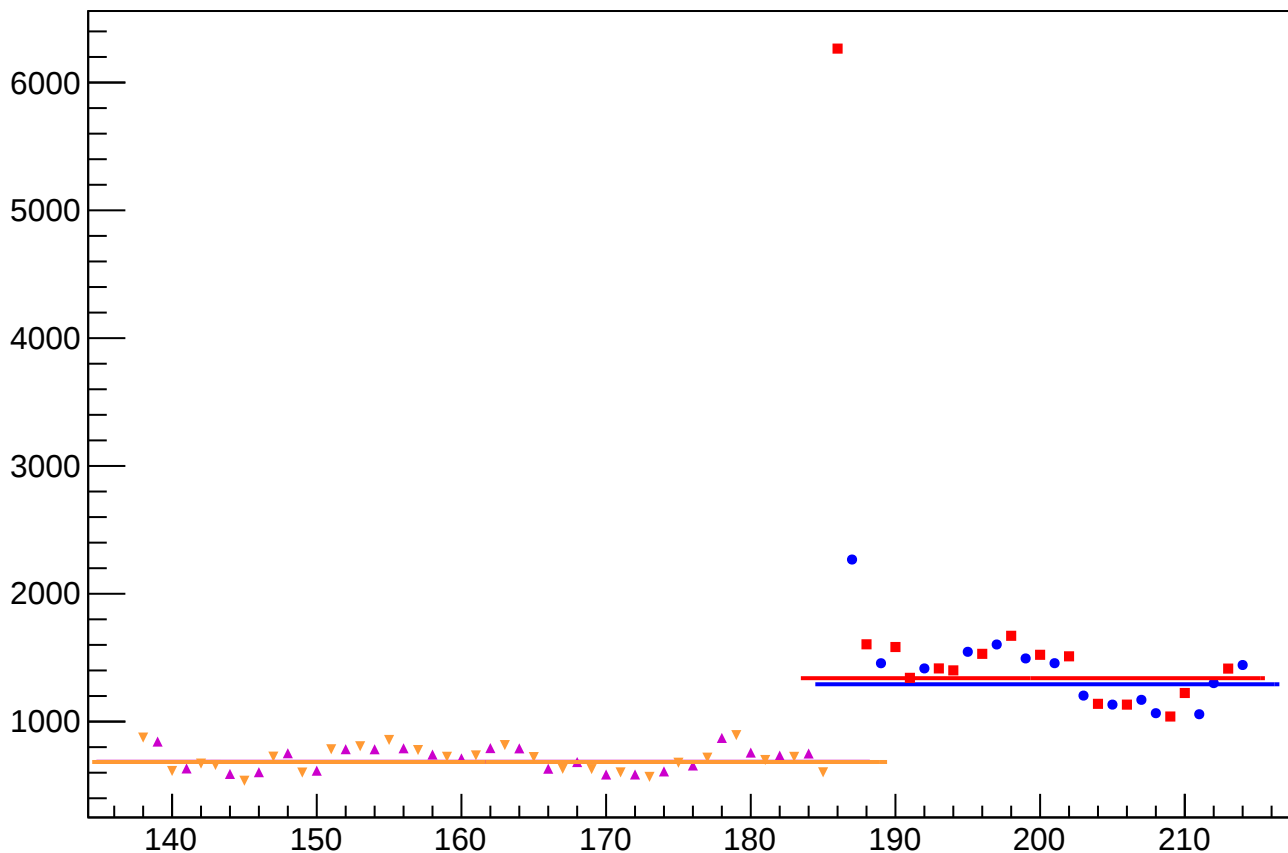
Right: 9.451 $\pm$ 298.252 χ^2/NDF : 50.8/28

In: -39.487 $\pm$ 153.793 χ^2/NDF : 47.8/36

Out: -481.280 $\pm$ 150.852 χ^2/NDF : 88.2/39

All: -264.648 $\pm$ 107.693 χ^2/NDF : 140.2/76

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1291.942 $\pm$ 0.292 χ^2 /NDF: 433840.8/13

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

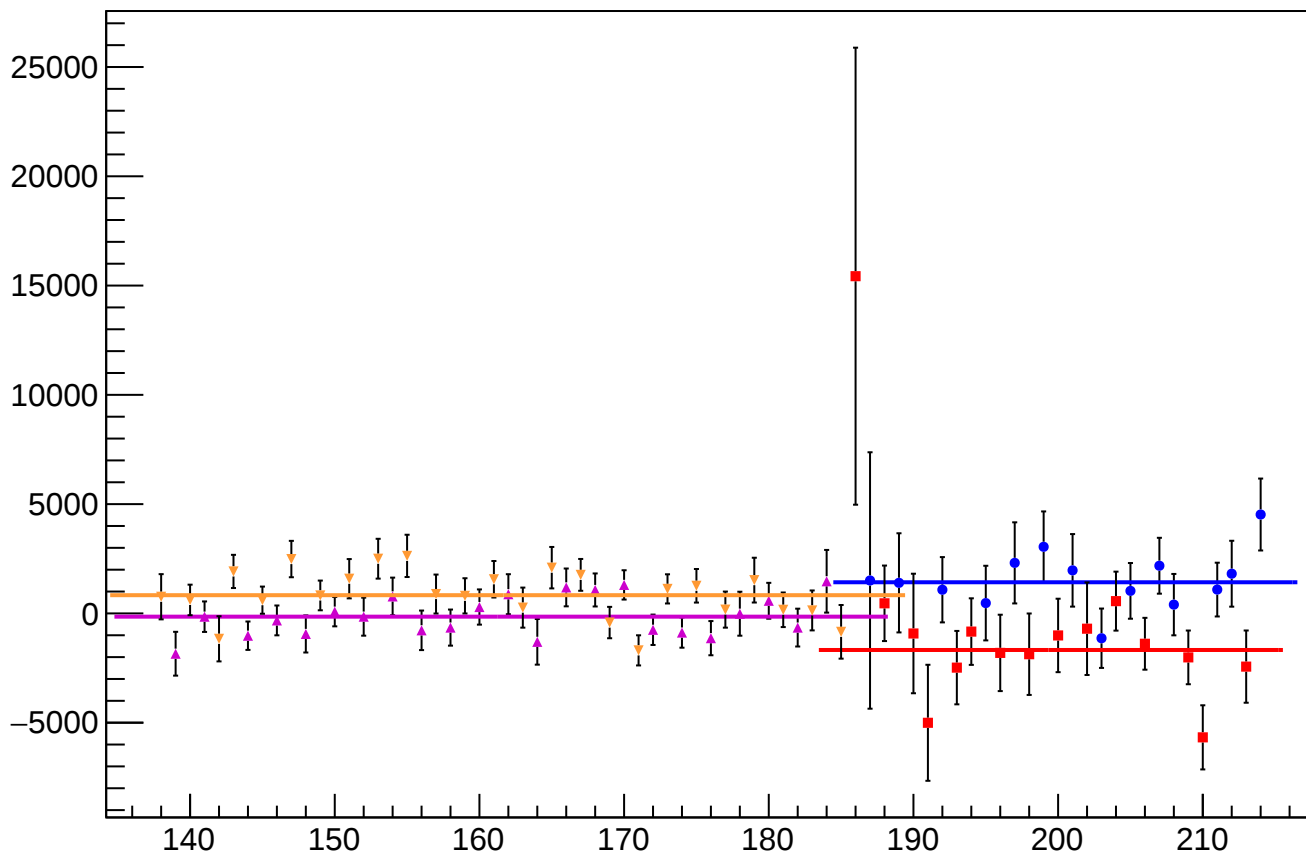
Right: 1314.761 $\pm$ 0.211 χ^2 /NDF: 1339723.2/28

In: 769.420 $\pm$ 0.109 χ^2 /NDF: 4666972.1/36

Out: 764.397 $\pm$ 0.107 χ^2 /NDF: 5629663.8/39

All: 766.860 $\pm$ 0.076 χ^2 /NDF: 10297723.0/76

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1424.759 ± 415.334 $\chi^2/\text{NDF}: 9.9/13$

Left Out: 833.395 ± 162.965 $\chi^2/\text{NDF}: 43.2/24$

Right Out: -1673.621 ± 432.277 $\chi^2/\text{NDF}: 17.3/14$

Left In: -148.814 ± 167.644 $\chi^2/\text{NDF}: 26.0/22$

Left: 356.189 ± 116.853 $\chi^2/\text{NDF}: 86.9/47$

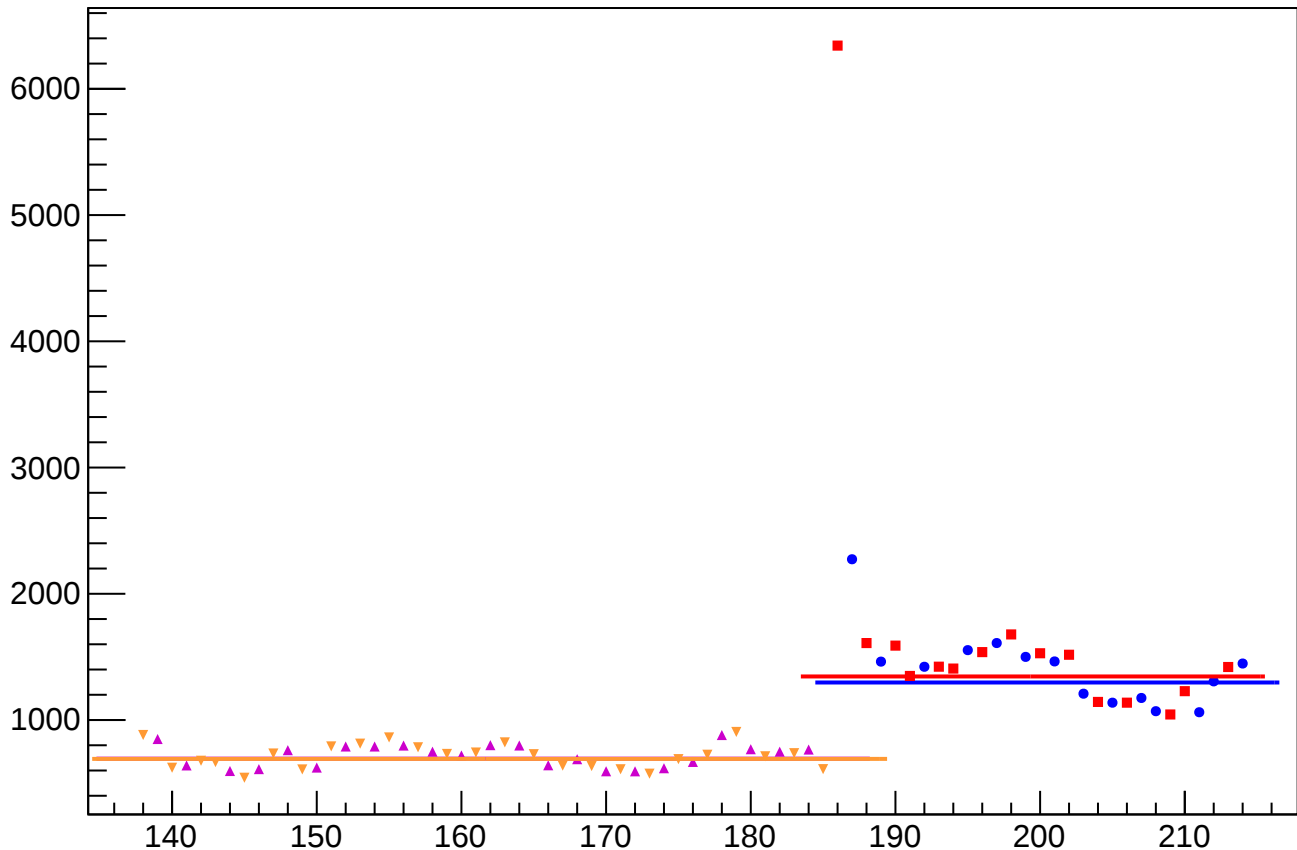
Right: -62.522 ± 299.496 $\chi^2/\text{NDF}: 53.9/28$

In: 71.640 ± 155.458 $\chi^2/\text{NDF}: 48.3/36$

Out: 521.427 ± 152.489 $\chi^2/\text{NDF}: 90.0/39$

All: 300.870 ± 108.860 $\chi^2/\text{NDF}: 142.5/76$

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1297.279+/-0.294 χ^2/NDF : 434296.8/13

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

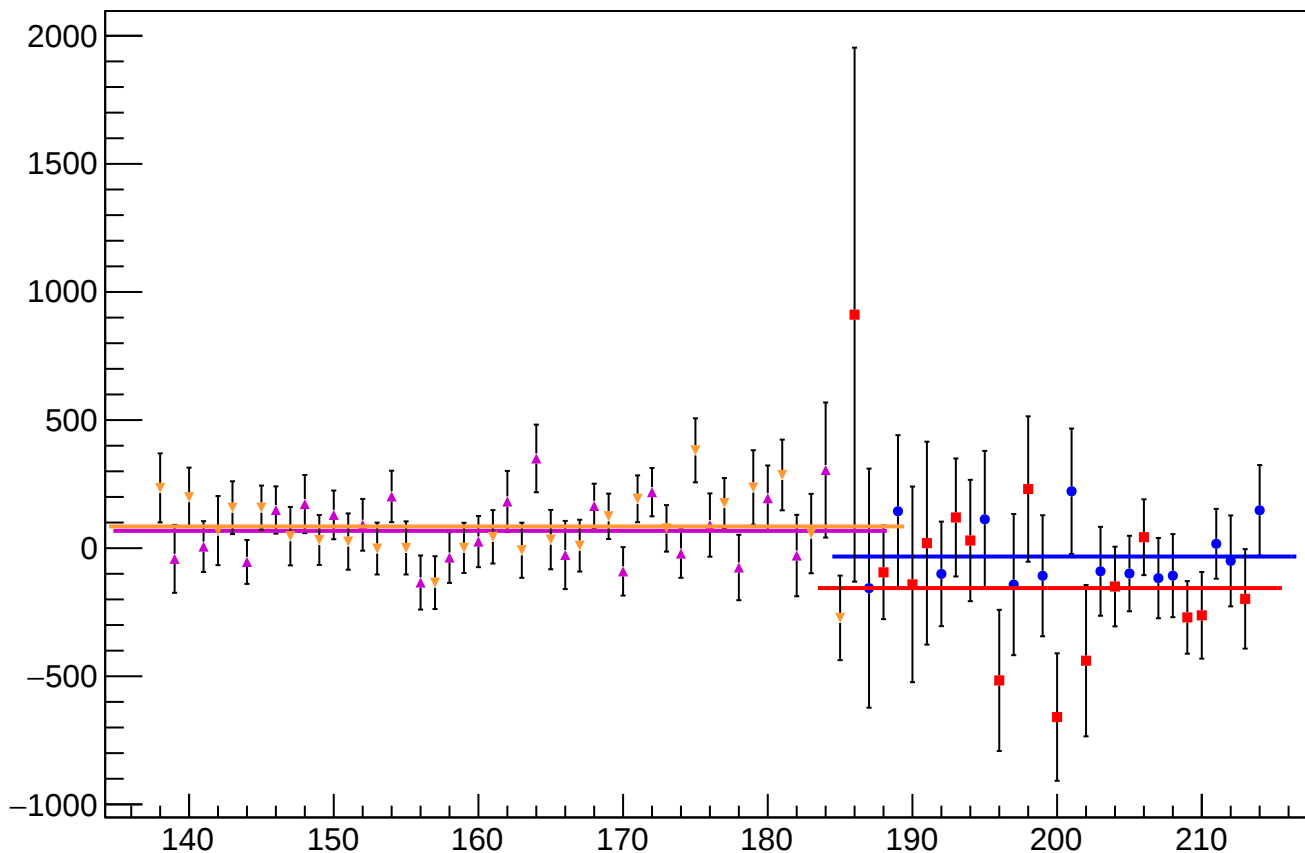
Right: 1320.225+/-0.212 χ^2/NDF : 1342644.7/28

In: 778.404+/-0.110 χ^2/NDF : 4586394.0/36

Out: 773.353+/-0.108 χ^2/NDF : 5548640.6/39

All: 775.829+/-0.077 χ^2/NDF : 10136110.7/76

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -32.645 ± 51.468 χ^2/NDF : 4.2/13

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

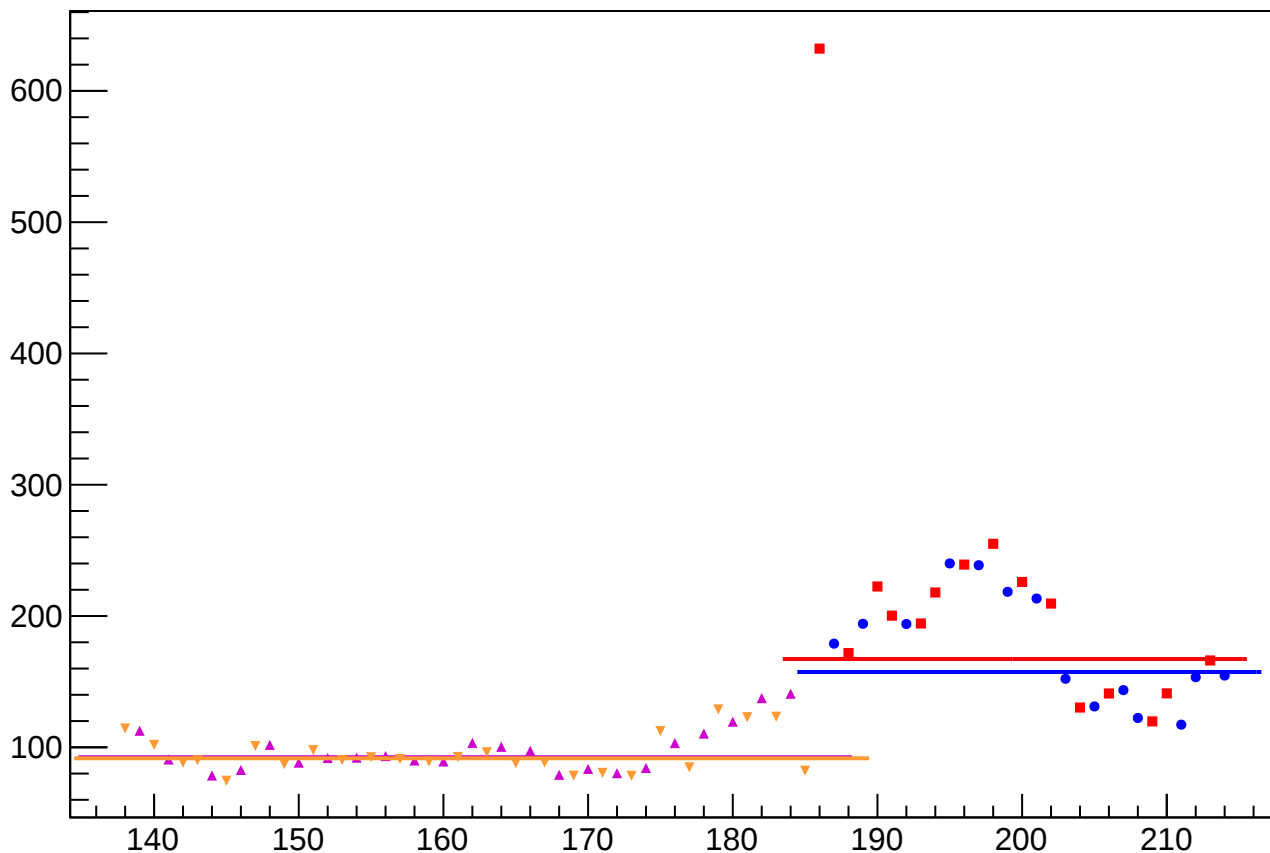
Right: -90.283 ± 37.534 χ^2/NDF : 21.7/28

In: 51.537 ± 20.577 χ^2/NDF : 36.2/36

Out: 52.449 ± 20.133 χ^2/NDF : 60.0/39

All: 52.003 ± 14.390 χ^2/NDF : 96.2/76

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 157.381 $\pm$ 0.036 χ^2 /NDF: 1052428.2/13

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

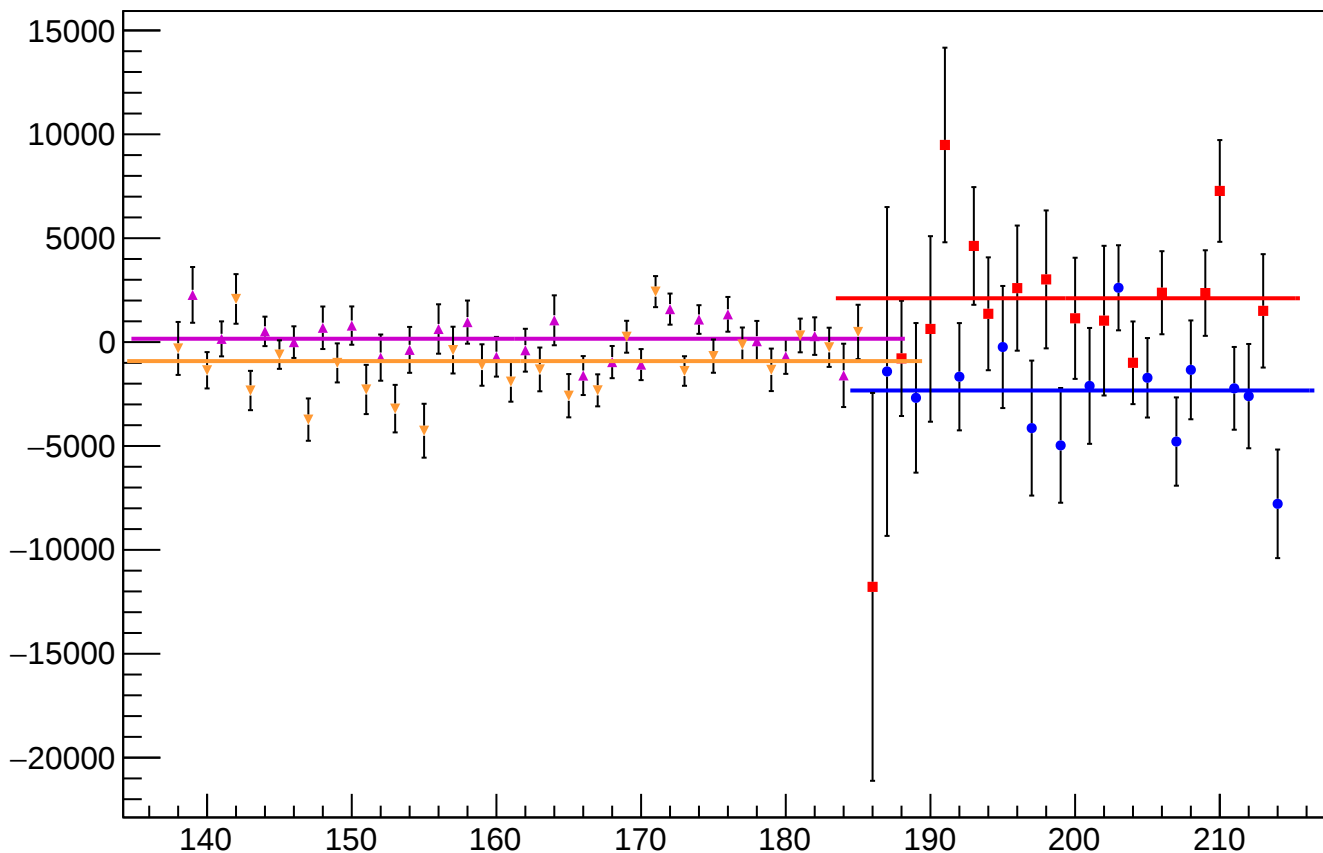
Right: 162.001 $\pm$ 0.027 χ^2 /NDF: 2589603.1/28

In: 102.842 $\pm$ 0.015 χ^2 /NDF: 4381204.0/36

Out: 101.818 $\pm$ 0.014 χ^2 /NDF: 5484310.2/39

All: 102.319 $\pm$ 0.010 χ^2 /NDF: 9868045.3/76

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -2328.963 ± 677.173 $\chi^2/\text{NDF}: 13.6/13$

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 $\chi^2/\text{NDF}: 105.7/47$

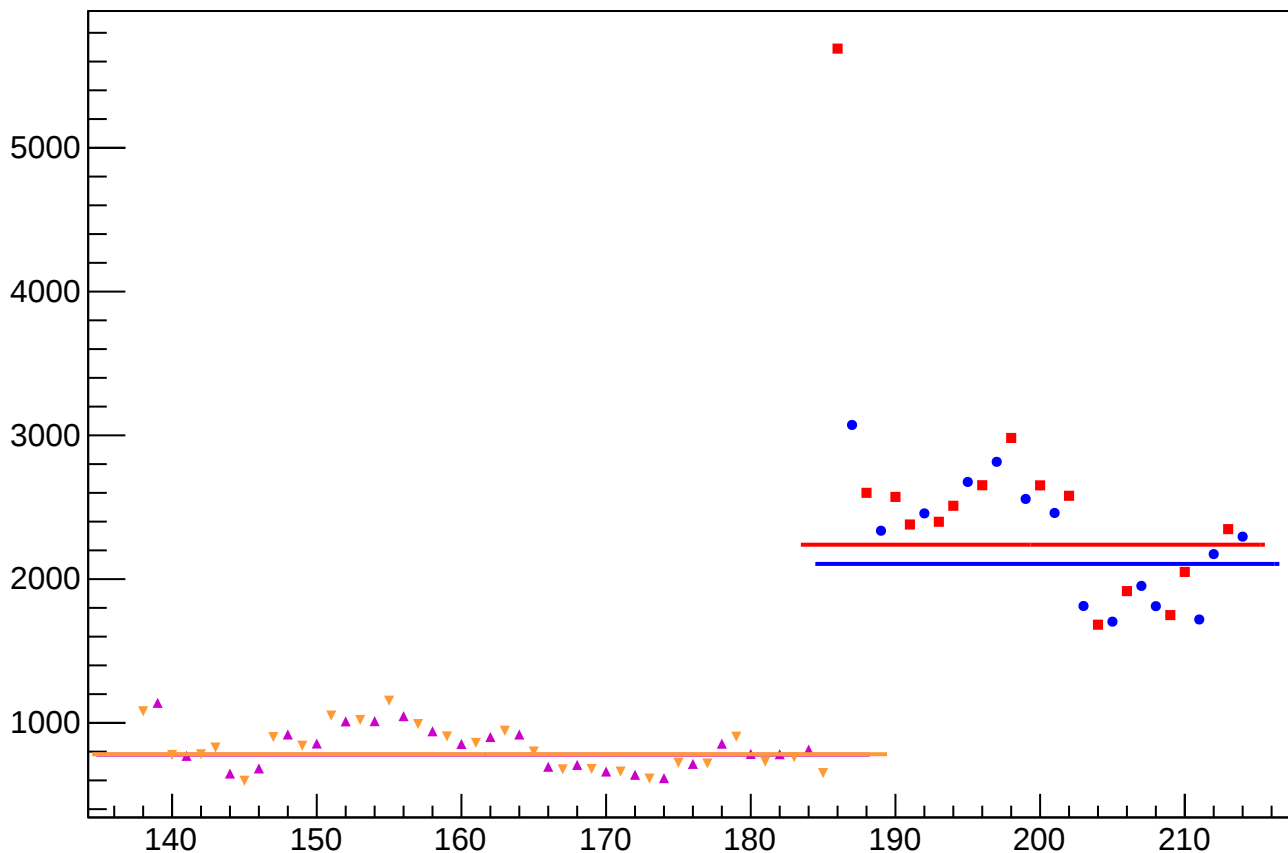
Right: -243.458 ± 493.049 $\chi^2/\text{NDF}: 47.9/28$

In: -19.742 ± 182.481 $\chi^2/\text{NDF}: 51.3/36$

Out: -726.426 ± 179.478 $\chi^2/\text{NDF}: 94.8/39$

All: -378.946 ± 127.959 $\chi^2/\text{NDF}: 153.7/76$

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2105.773+/-0.479 χ^2/NDF : 589077.7/13

Left Out: 782.042+/-0.131 χ^2/NDF : 1130984.3/24

Right Out: 2239.506+/-0.509 χ^2/NDF : 878705.3/14

Left In: 778.995+/-0.134 χ^2/NDF : 980243.4/22

Left: 780.552+/-0.094 χ^2/NDF : 2111492.1/47

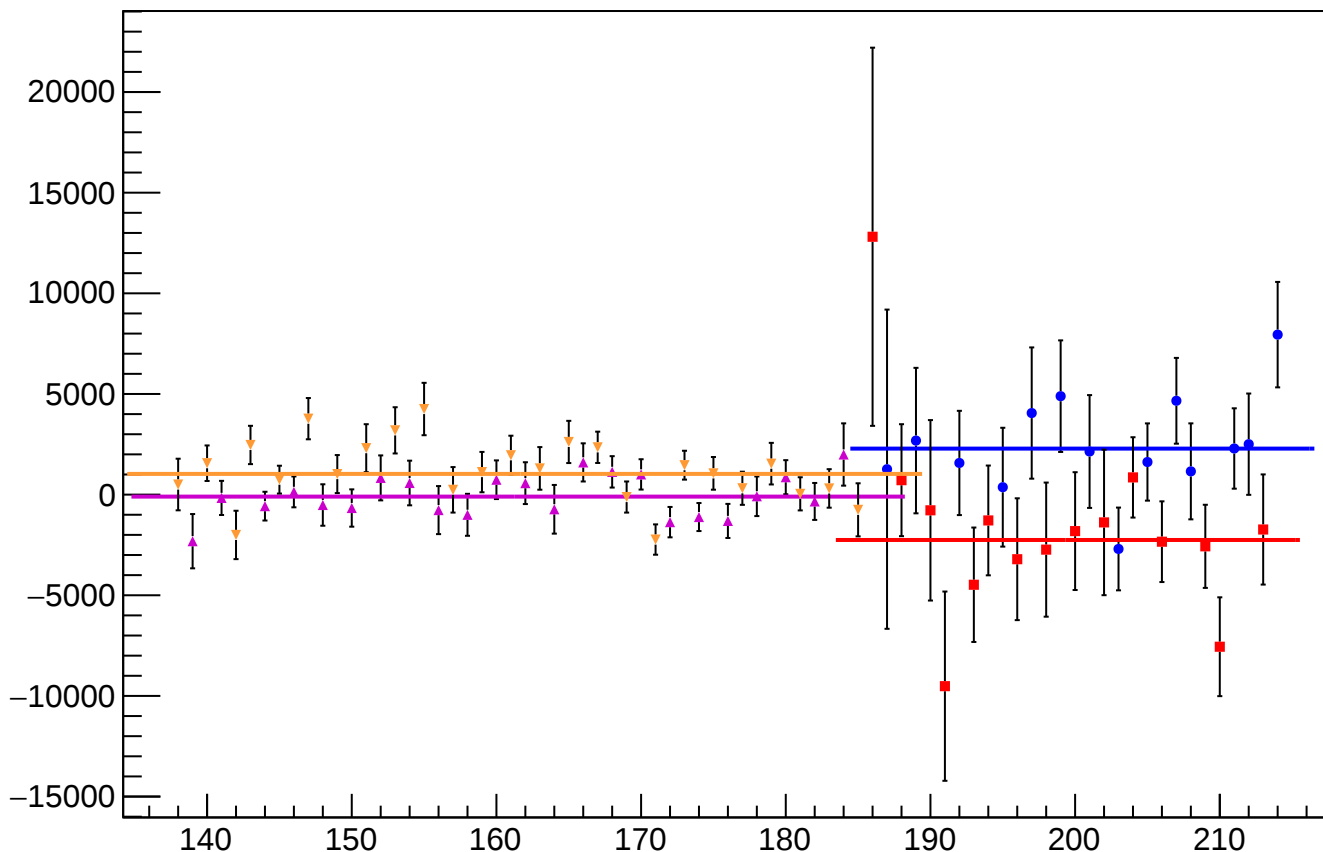
Right: 2168.610+/-0.349 χ^2/NDF : 1504433.9/28

In: 875.341+/-0.129 χ^2/NDF : 8689429.7/36

Out: 872.786+/-0.127 χ^2/NDF : 9709949.5/39

All: 874.042+/-0.090 χ^2/NDF : 18399578.4/76

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2286.035 $\pm$ 679.313 χ^2 /NDF: 13.9/13

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF: 60.2/24

Right Out: -2253.088 $\pm$ 721.600 χ^2 /NDF: 14.3/14

Left In: -98.691 $\pm$ 191.027 χ^2 /NDF: 25.4/22

Left: 477.669 $\pm$ 133.561 χ^2 /NDF: 103.3/47

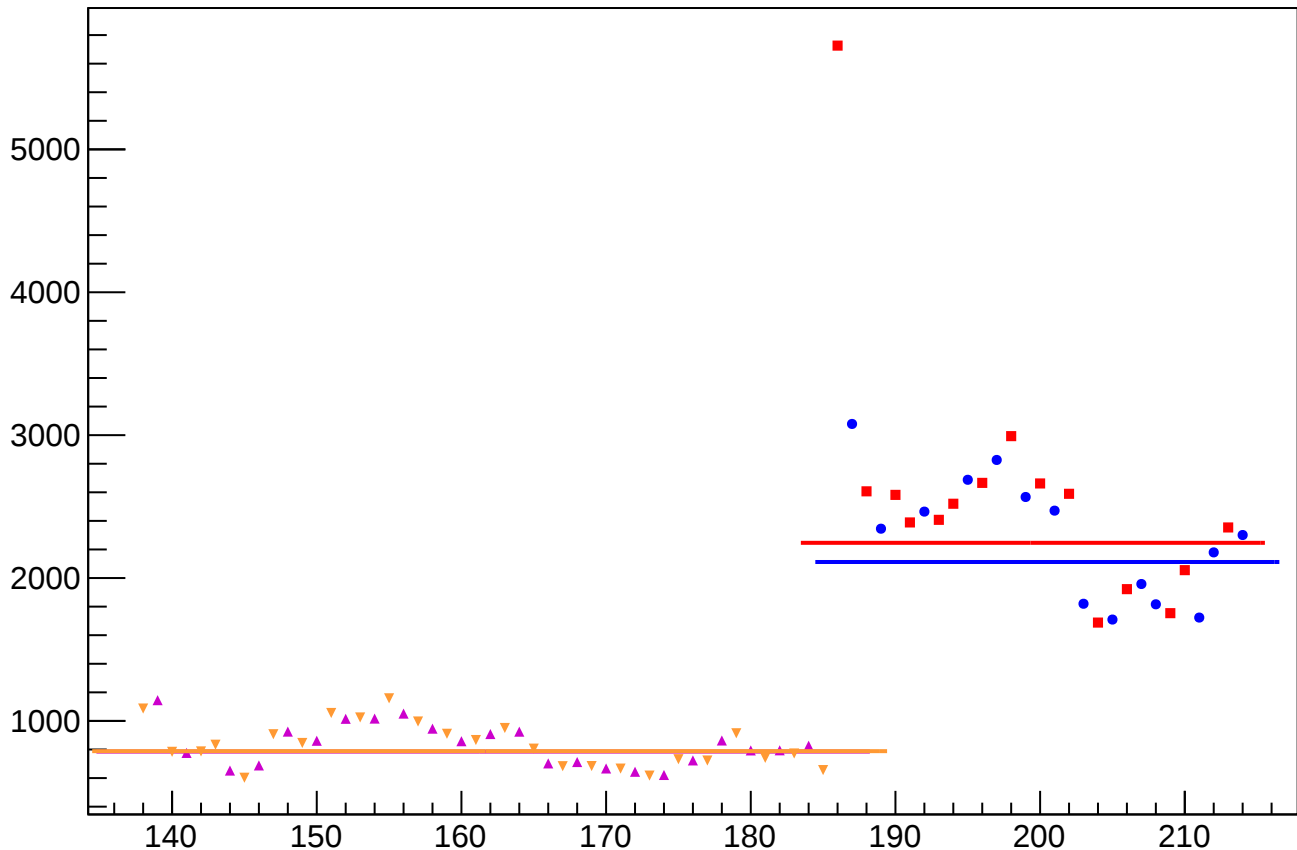
Right: 153.363 $\pm$ 494.621 χ^2 /NDF: 49.1/28

In: 76.066 $\pm$ 183.894 χ^2 /NDF: 50.7/36

Out: 822.722 $\pm$ 180.848 χ^2 /NDF: 93.8/39

All: 455.629 $\pm$ 128.942 χ^2 /NDF: 152.9/76

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2112.299 $\pm$ 0.480 χ^2/NDF : 591446.2/13

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

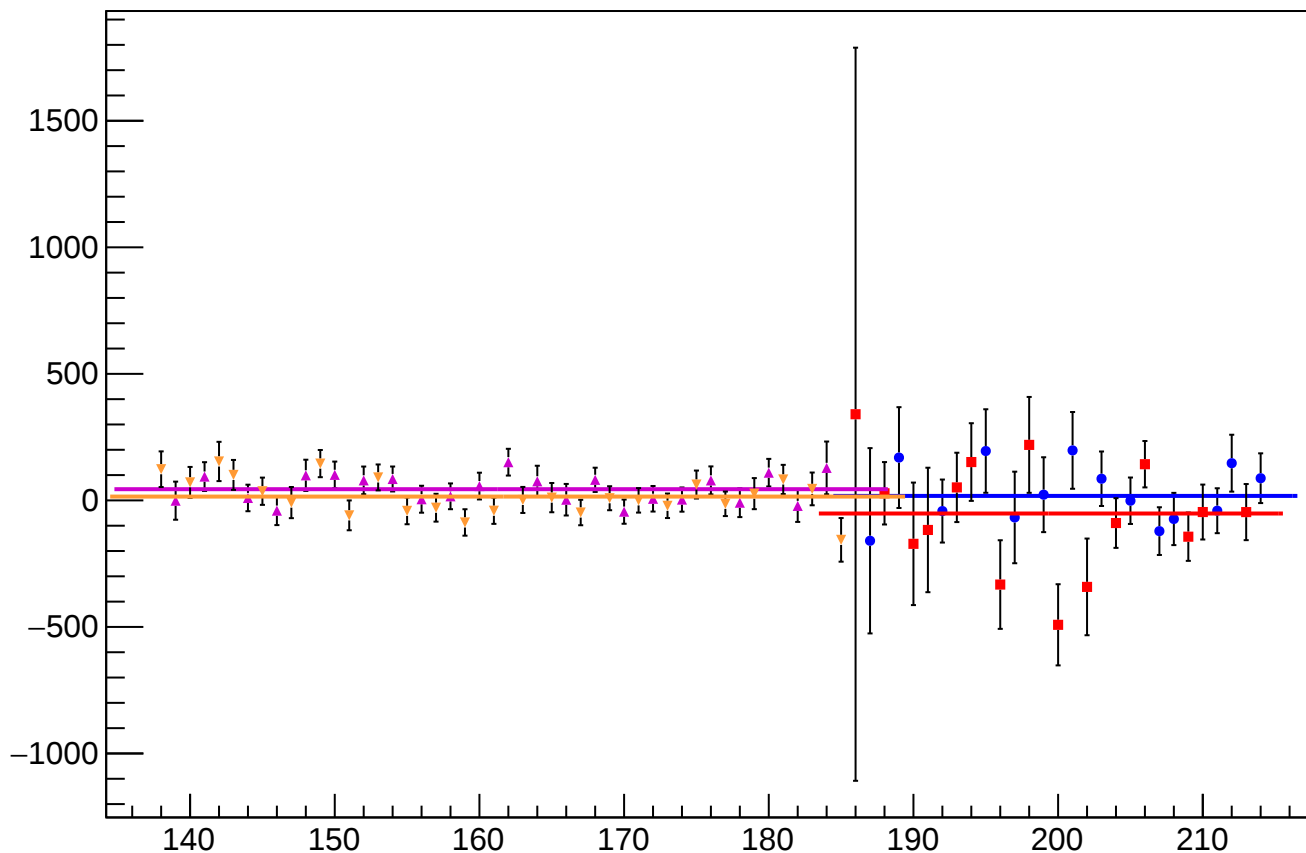
Right: 2175.356 $\pm$ 0.350 χ^2/NDF : 1510638.9/28

In: 882.721 $\pm$ 0.130 χ^2/NDF : 8627343.1/36

Out: 880.024 $\pm$ 0.128 χ^2/NDF : 9649008.5/39

All: 881.350 $\pm$ 0.091 χ^2/NDF : 18276570.3/76

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 17.735 ± 32.029 $\chi^2/\text{NDF}: 9.5/13$

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 $\chi^2/\text{NDF}: 59.8/47$

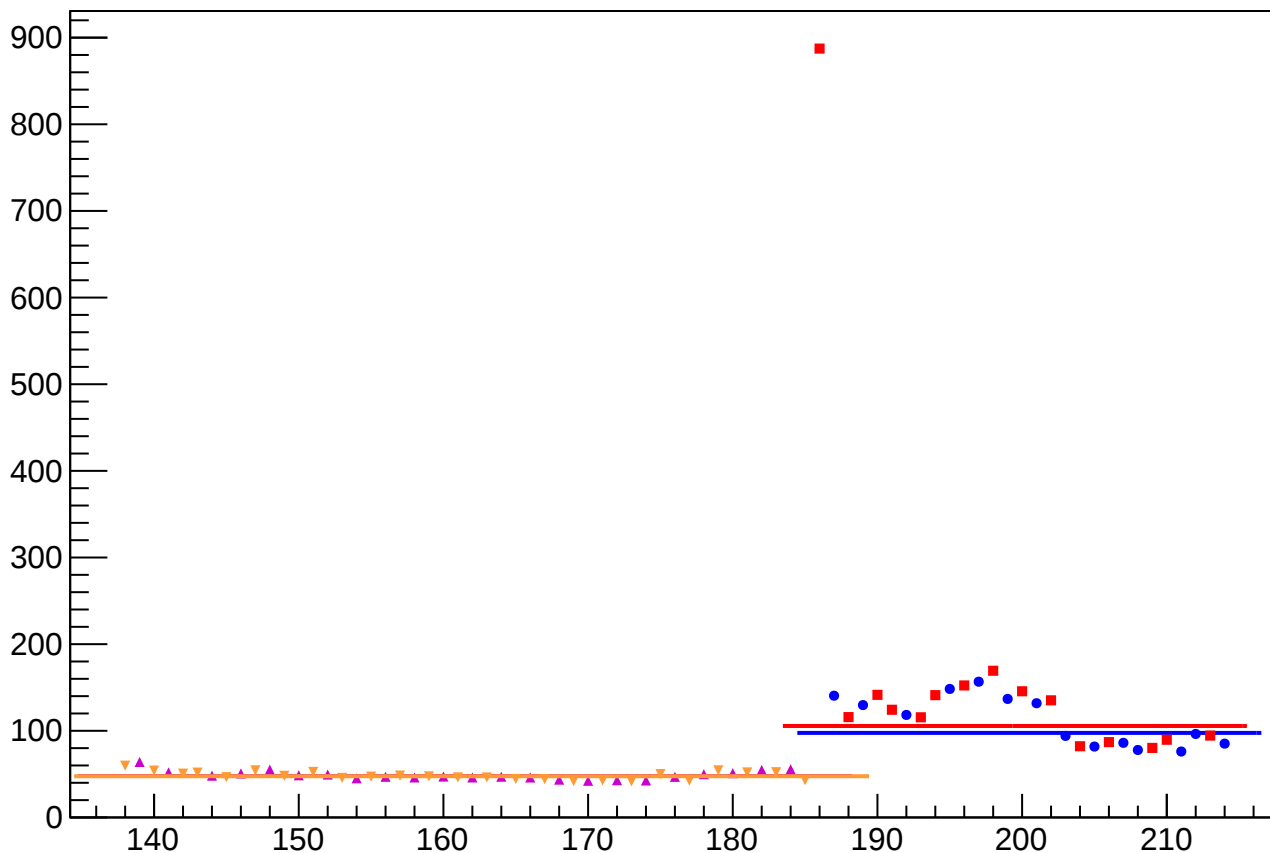
Right: -14.068 ± 23.597 $\chi^2/\text{NDF}: 34.8/28$

In: 41.250 ± 10.848 $\chi^2/\text{NDF}: 32.4/36$

Out: 8.896 ± 10.625 $\chi^2/\text{NDF}: 60.7/39$

All: 24.736 ± 7.591 $\chi^2/\text{NDF}: 97.6/76$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 97.586 $\pm$ 0.023 χ^2 /NDF: 1092690.0/13

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

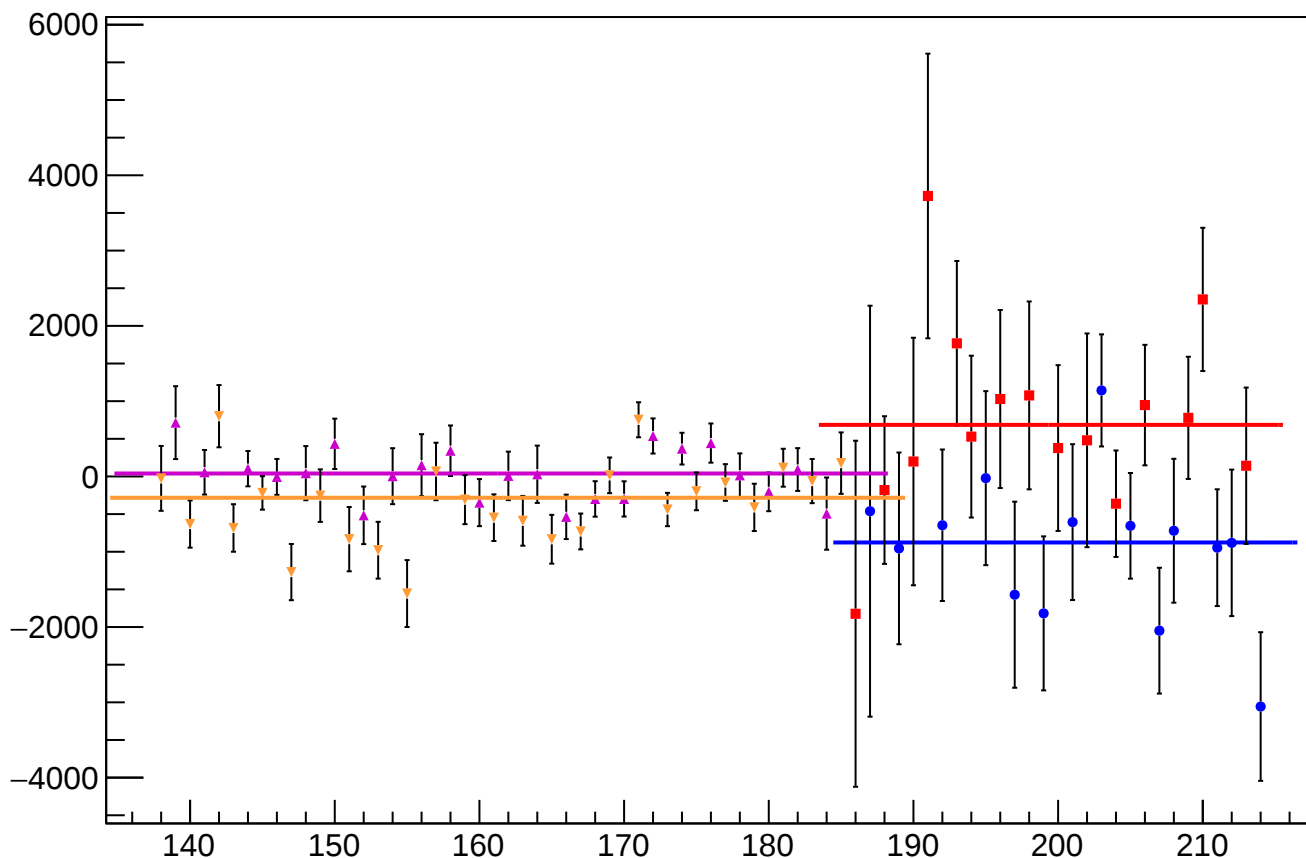
Right: 101.243 $\pm$ 0.017 χ^2 /NDF: 2862014.3/28

In: 53.552 $\pm$ 0.008 χ^2 /NDF: 5644550.7/36

Out: 52.963 $\pm$ 0.008 χ^2 /NDF: 7037551.0/39

All: 53.251 $\pm$ 0.005 χ^2 /NDF: 12685117.1/76

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -876.753+/-257.002 χ^2/NDF : 16.2/13

Left Out: -282.798+/-59.690 χ^2/NDF : 66.5/24

Right Out: 685.269+/-273.447 χ^2/NDF : 11.6/14

Left In: 39.432+/-60.759 χ^2/NDF : 27.5/22

Left: -124.543+/-42.580 χ^2/NDF : 108.4/47

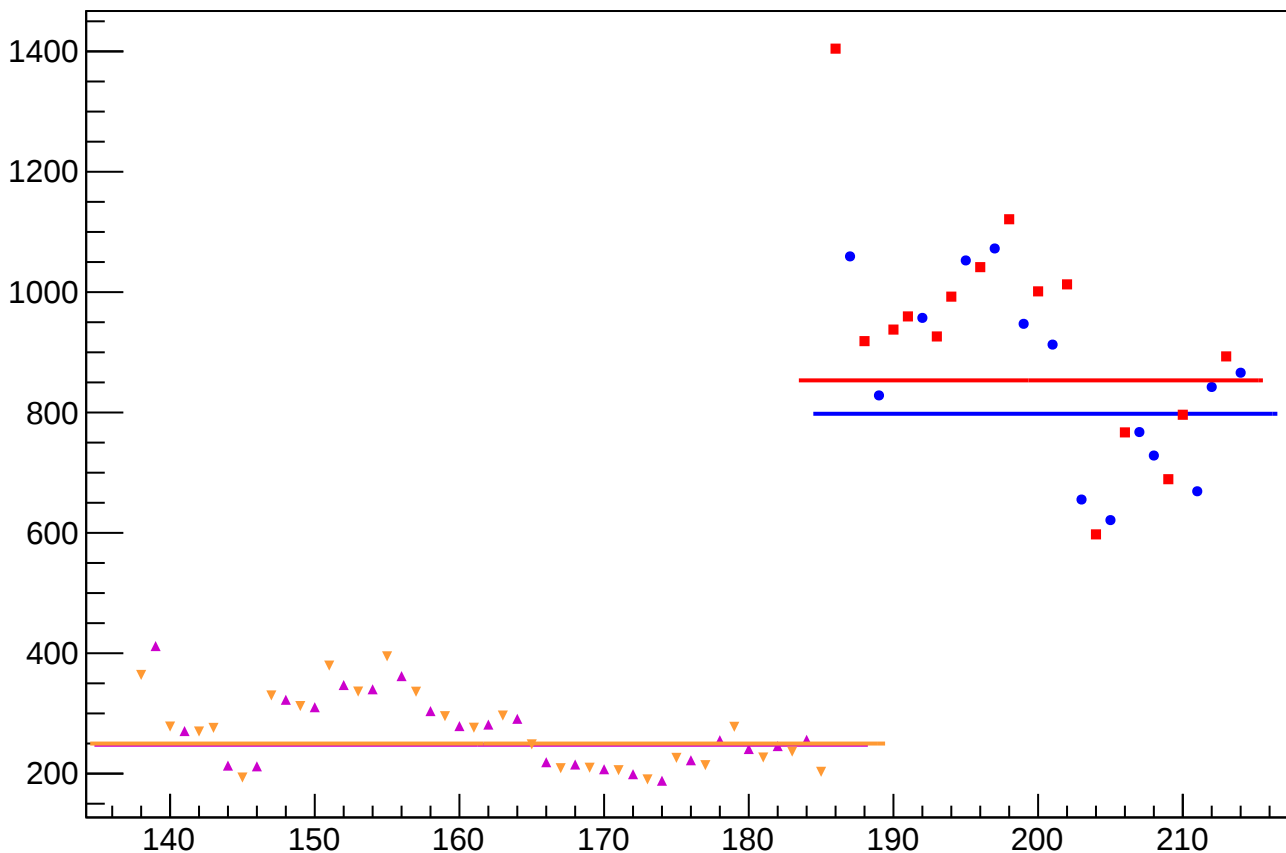
Right: -144.123+/-187.272 χ^2/NDF : 45.1/28

In: -9.065+/-59.129 χ^2/NDF : 55.8/36

Out: -238.769+/-58.317 χ^2/NDF : 90.1/39

All: -125.505+/-41.520 χ^2/NDF : 153.5/76

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 797.883+/-0.182 χ^2/NDF : 615155.8/13

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

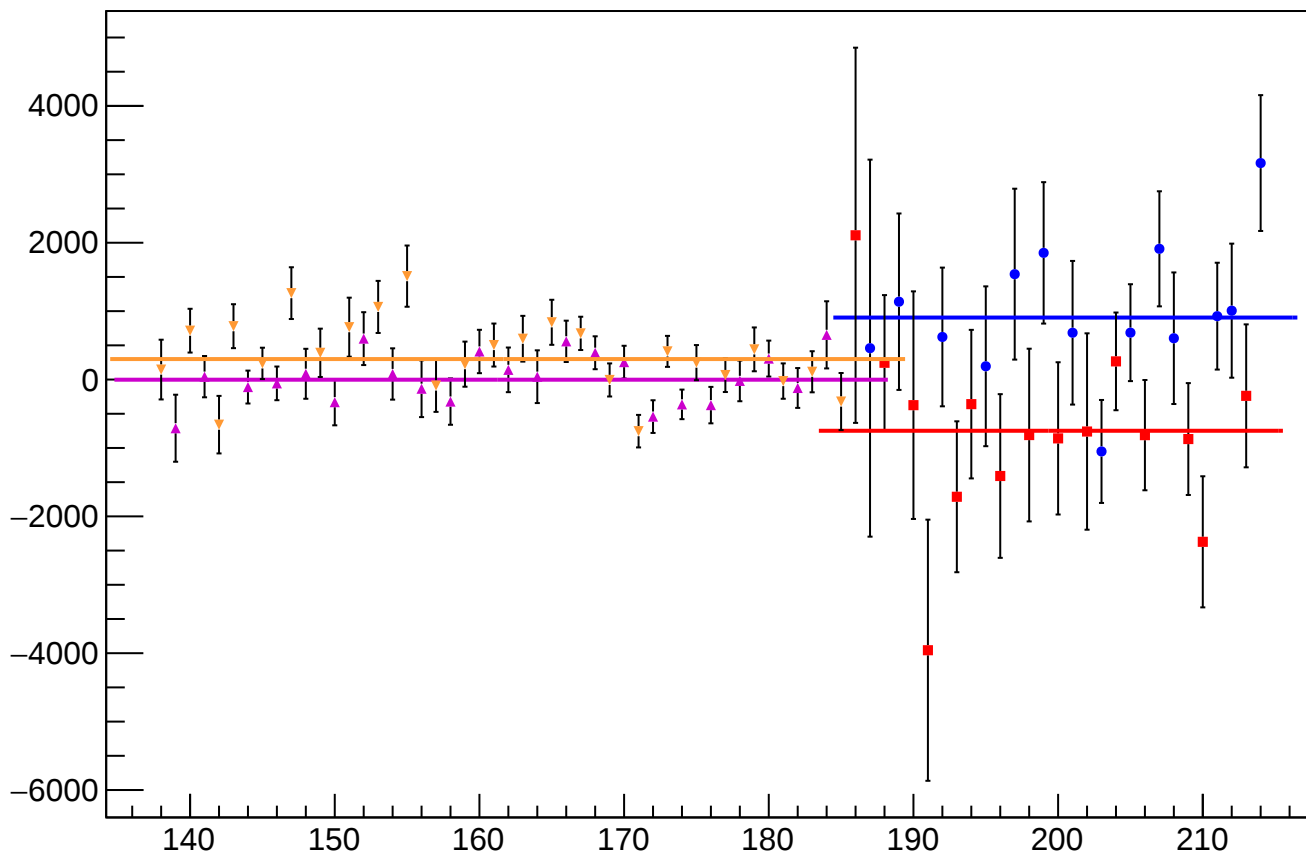
Right: 823.914+/-0.132 χ^2/NDF : 1418251.8/28

In: 277.028+/-0.042 χ^2/NDF : 10699842.5/36

Out: 277.401+/-0.041 χ^2/NDF : 11669938.6/39

All: 277.217+/-0.029 χ^2/NDF : 22369821.5/76

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 906.371 $\pm$ 259.301 χ^2 /NDF: 15.2/13

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: -748.614 $\pm$ 276.484 χ^2 /NDF: 11.3/14

Left In: -2.185 $\pm$ 62.005 χ^2 /NDF:29.2/22

Left: 151.501 $\pm$ 43.433 χ^2 /NDF: 103.7/47

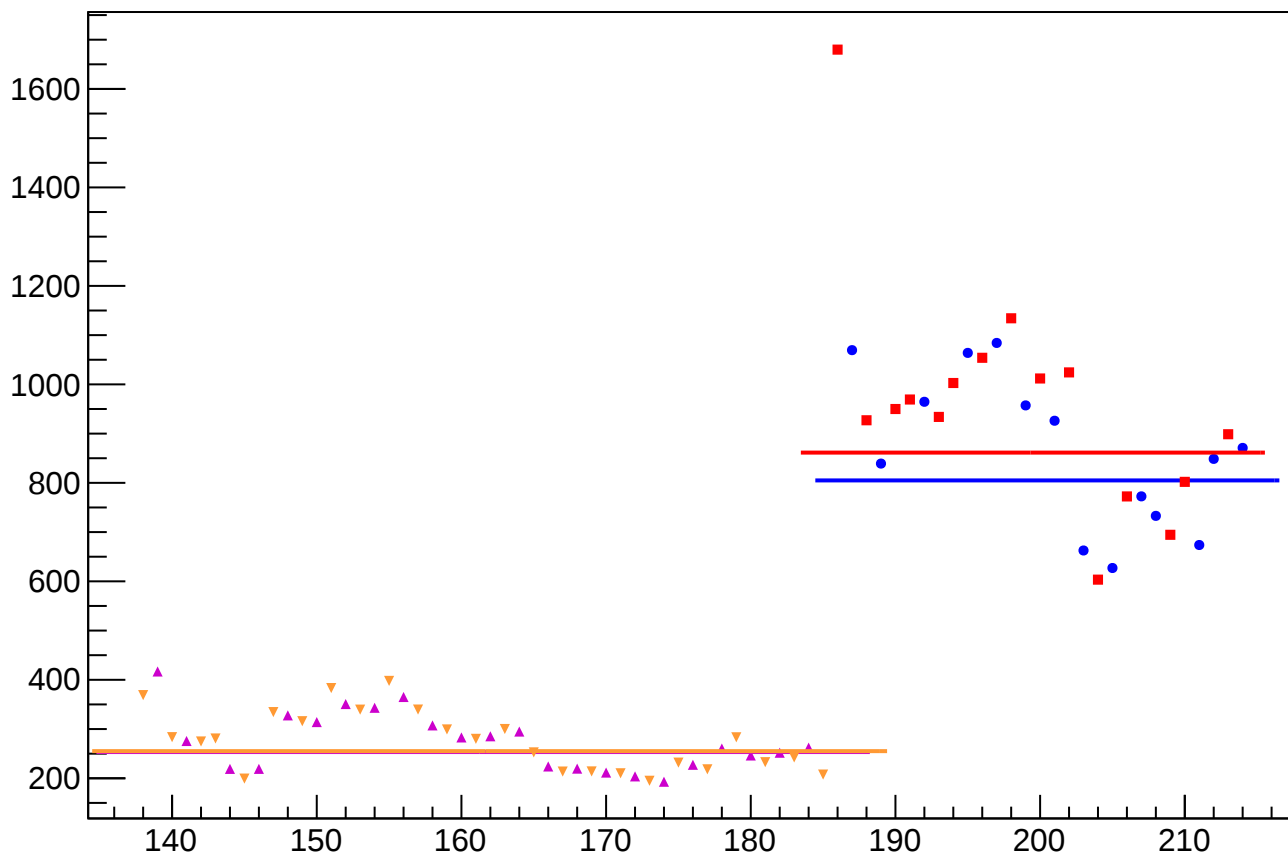
Right: 131.901 $\pm$ 189.136 χ^2 /NDF: 45.6/28

In: 46.956 $\pm$ 60.305 χ^2 /NDF:56.0/36

Out: 251.122 $\pm$ 59.437 χ^2 /NDF:87.5/39

All: 150.519 $\pm$ 42.332 χ^2 /NDF: 149.3/76

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 804.945 $\pm$ 0.183 χ^2 /NDF: 618906.4/13

Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF:1542039.5/24

Right Out: 861.437 $\pm$ 0.196 χ^2 /NDF: 828166.7/14

Left In: 253.287 $\pm$ 0.044 χ^2 /NDF:1341662.3/22

Left: 254.229 $\pm$ 0.031 χ^2 /NDF: 2884606.5/47

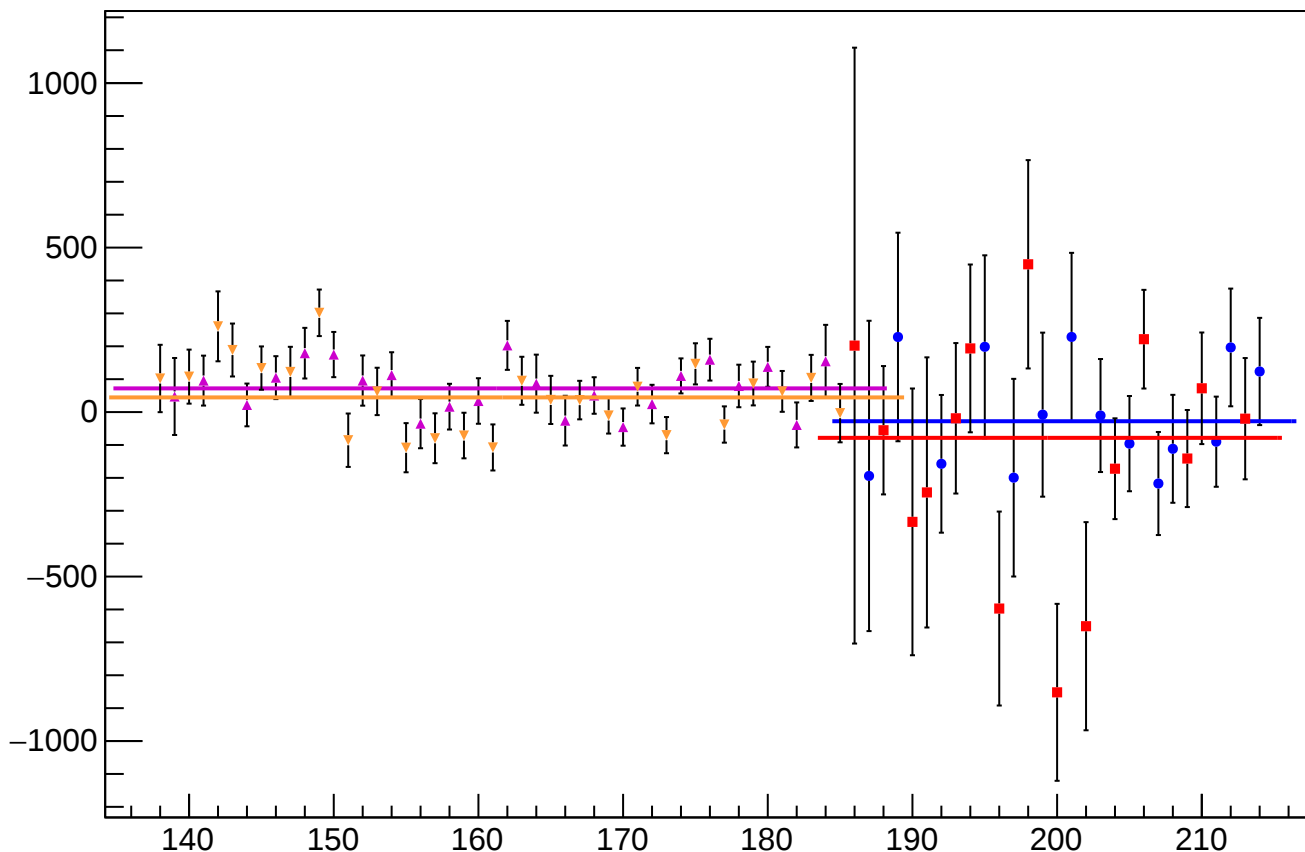
Right: 831.381 $\pm$ 0.134 χ^2 /NDF: 1491494.7/28

In: 283.125 $\pm$ 0.043 χ^2 /NDF:10523317.7/36

Out: 283.155 $\pm$ 0.042 χ^2 /NDF:11543355.1/39

All: 283.140 $\pm$ 0.030 χ^2 /NDF: 22066673.1/76

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -27.796 ± 51.686 χ^2/NDF : 7.8/13

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

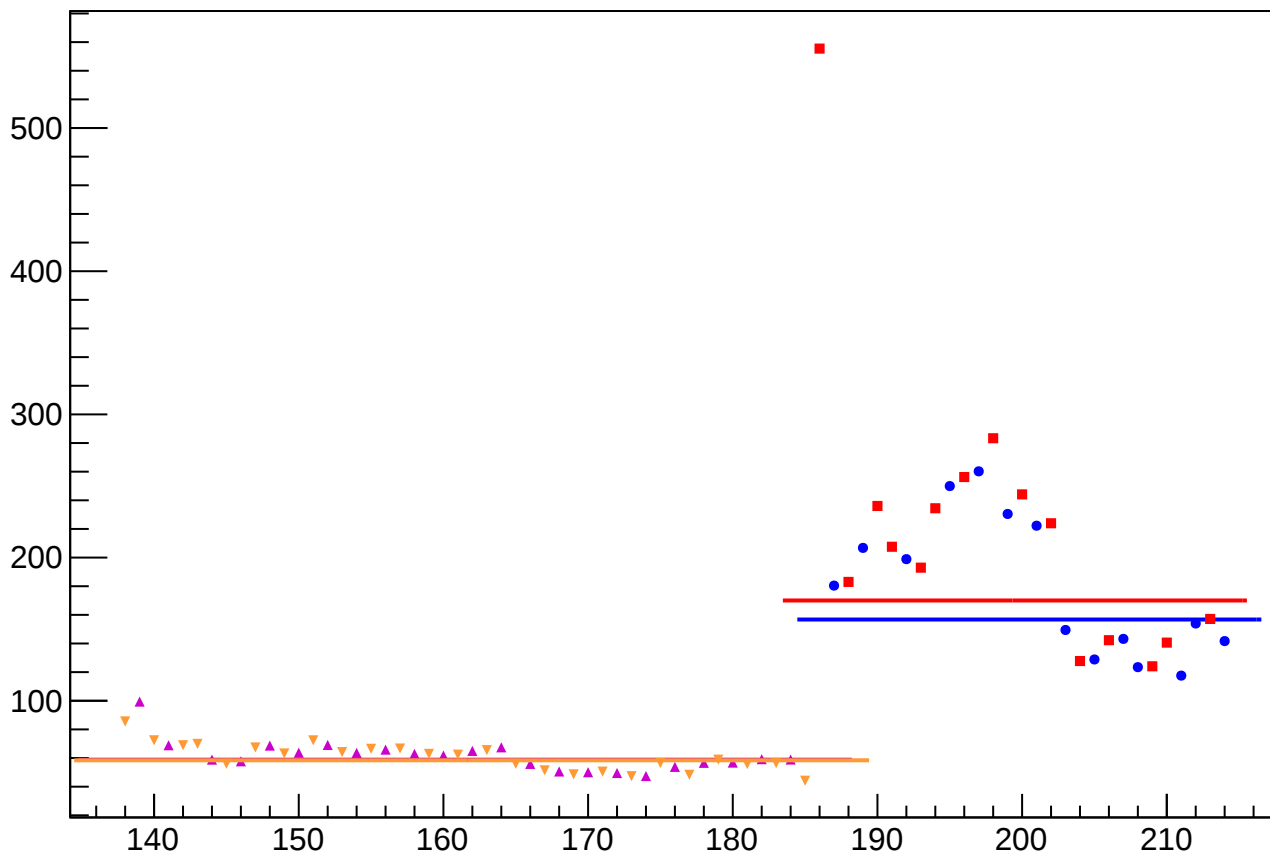
Right: -50.941 ± 38.046 χ^2/NDF : 32.9/28

In: 64.942 ± 13.779 χ^2/NDF : 36.5/36

Out: 37.591 ± 13.424 χ^2/NDF : 83.2/39

All: 50.910 ± 9.615 χ^2/NDF : 121.7/76

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 156.744 $\pm$ 0.037 χ^2 /NDF: 1260271.3/13

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 170.040 $\pm$ 0.040 χ^2 /NDF: 1710382.8/14

Left In: 58.840 $\pm$ 0.010 χ^2 /NDF: 679925.7/22

Left: 58.624 $\pm$ 0.007 χ^2 /NDF: 1470896.0/47

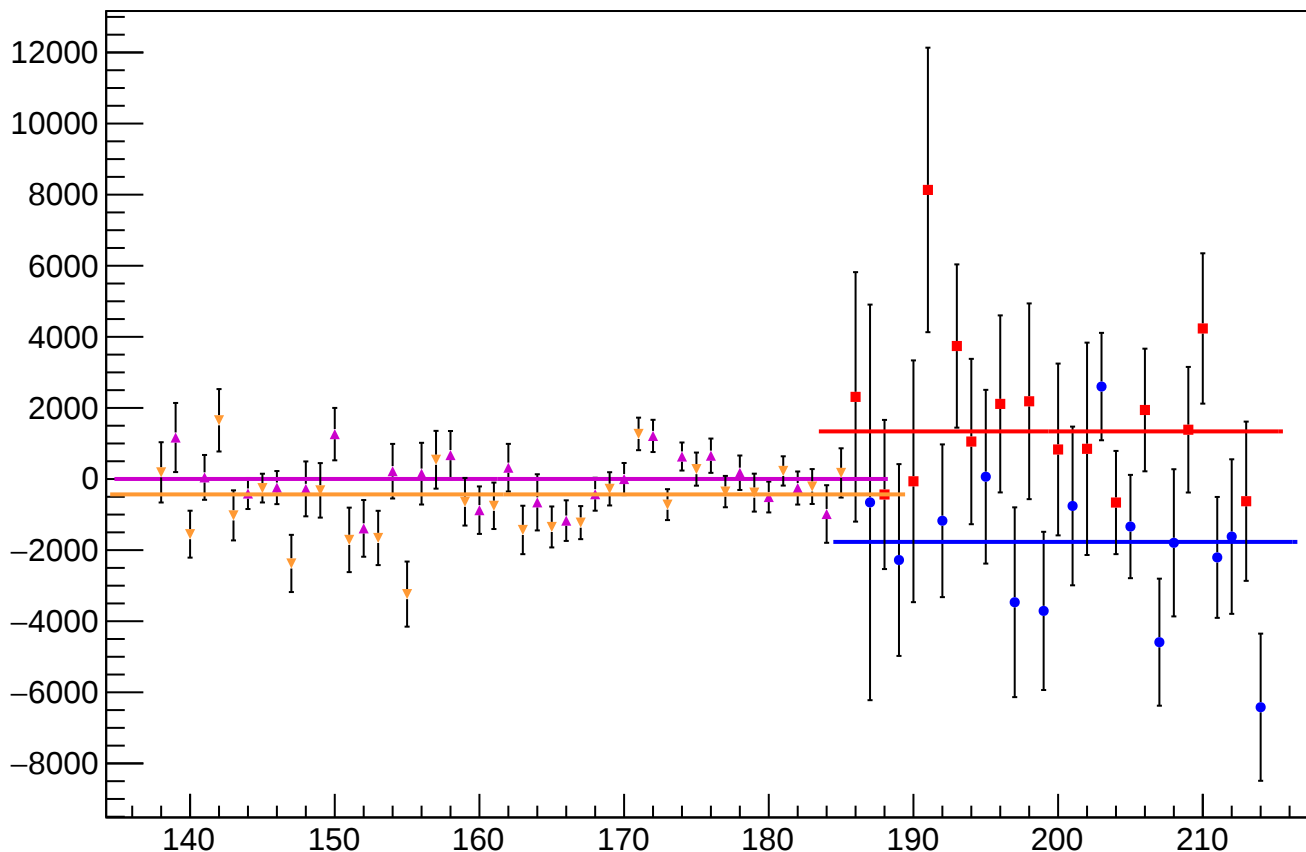
Right: 162.835 $\pm$ 0.027 χ^2 /NDF: 3031295.9/28

In: 65.798 $\pm$ 0.010 χ^2 /NDF: 8606316.9/36

Out: 64.789 $\pm$ 0.009 χ^2 /NDF: 9936756.3/39

All: 65.280 $\pm$ 0.007 χ^2 /NDF: 18548574.4/76

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -1768.703 $\pm$ 546.684 χ^2 /NDF: 18.2/13

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

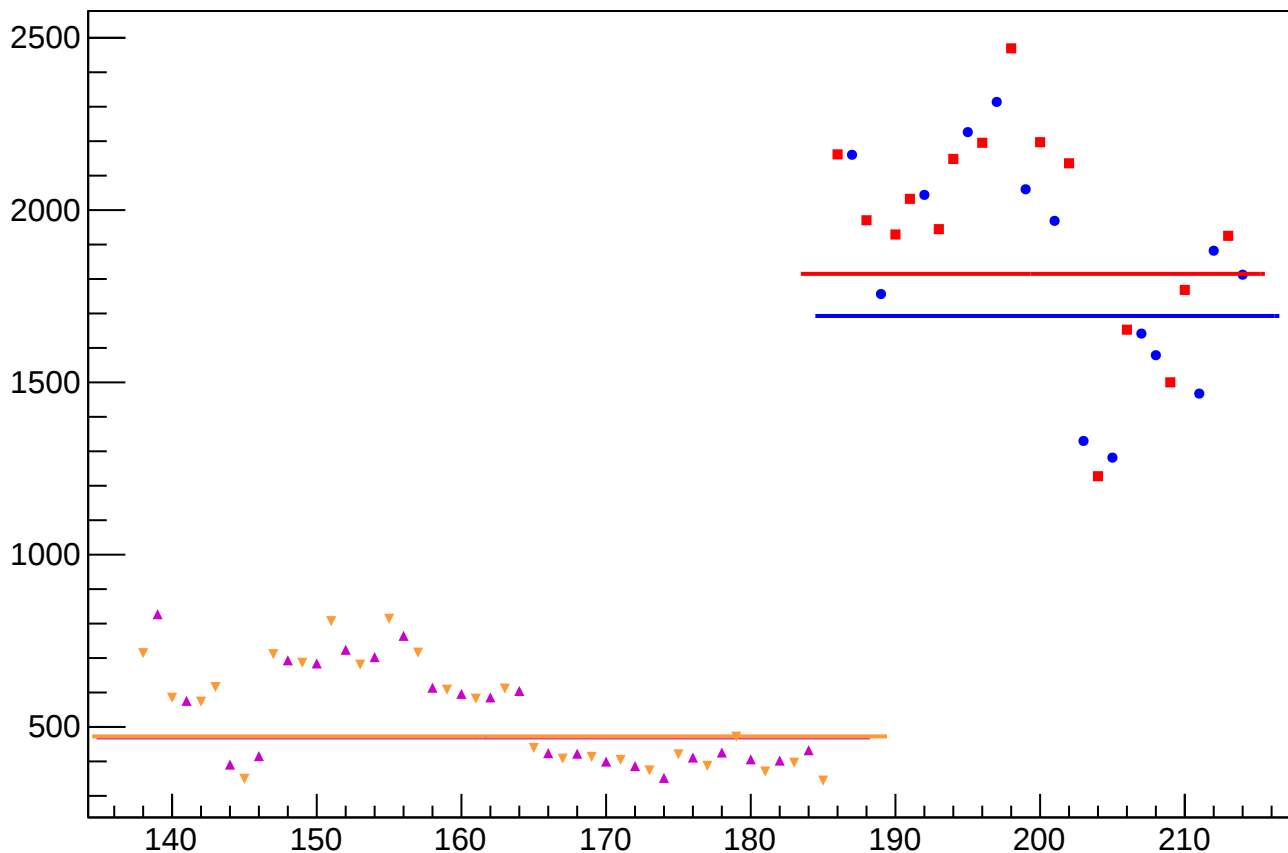
Right: -309.027 $\pm$ 398.147 χ^2 /NDF: 43.2/28

In: -75.035 $\pm$ 113.903 χ^2 /NDF: 60.5/36

Out: -366.185 $\pm$ 112.252 χ^2 /NDF: 78.2/39

All: -222.735 $\pm$ 79.952 χ^2 /NDF: 142.0/76

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1692.765 $\pm$ 0.387 χ^2 /NDF: 697656.4/13

Left Out: 472.569 $\pm$ 0.081 χ^2 /NDF: 2508168.9/24

Right Out: 1814.939 $\pm$ 0.411 χ^2 /NDF: 733291.1/14

Left In: 469.761 $\pm$ 0.082 χ^2 /NDF: 2116885.7/22

Left: 471.190 $\pm$ 0.058 χ^2 /NDF: 4625646.2/47

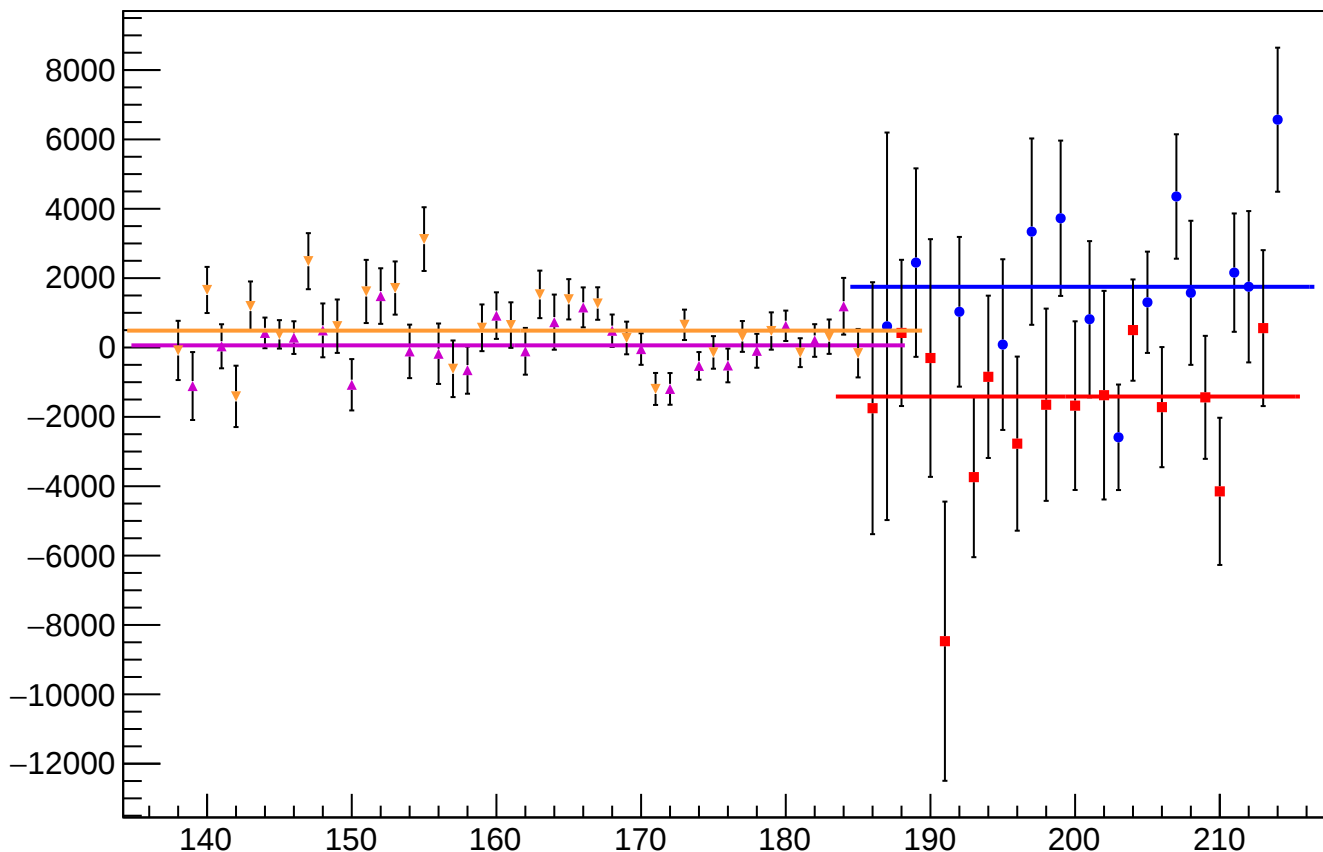
Right: 1750.136 $\pm$ 0.282 χ^2 /NDF: 1477854.7/28

In: 522.853 $\pm$ 0.081 χ^2 /NDF: 12389524.8/36

Out: 522.676 $\pm$ 0.079 χ^2 /NDF: 13518903.3/39

All: 522.763 $\pm$ 0.057 χ^2 /NDF: 25908430.5/76

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 1750.374 $\pm$ 549.558 χ^2 /NDF: 17.8/13

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

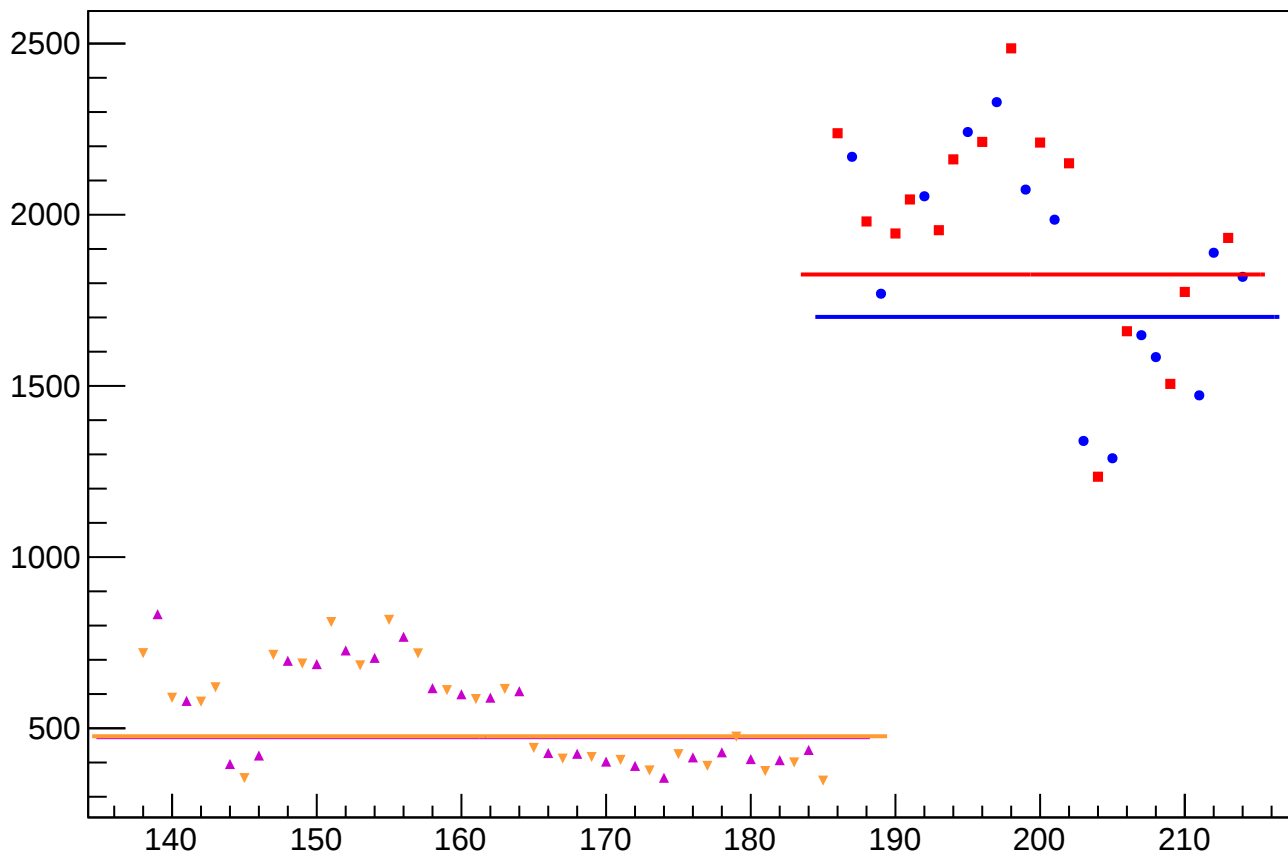
Right: 265.836 $\pm$ 400.390 χ^2 /NDF: 42.8/28

In: 135.531 $\pm$ 114.855 χ^2 /NDF: 57.9/36

Out: 415.422 $\pm$ 113.164 χ^2 /NDF: 75.7/39

All: 277.552 $\pm$ 80.610 χ^2 /NDF: 136.7/76

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1701.584 $\pm$ 0.389 χ^2 /NDF: 699490.8/13

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

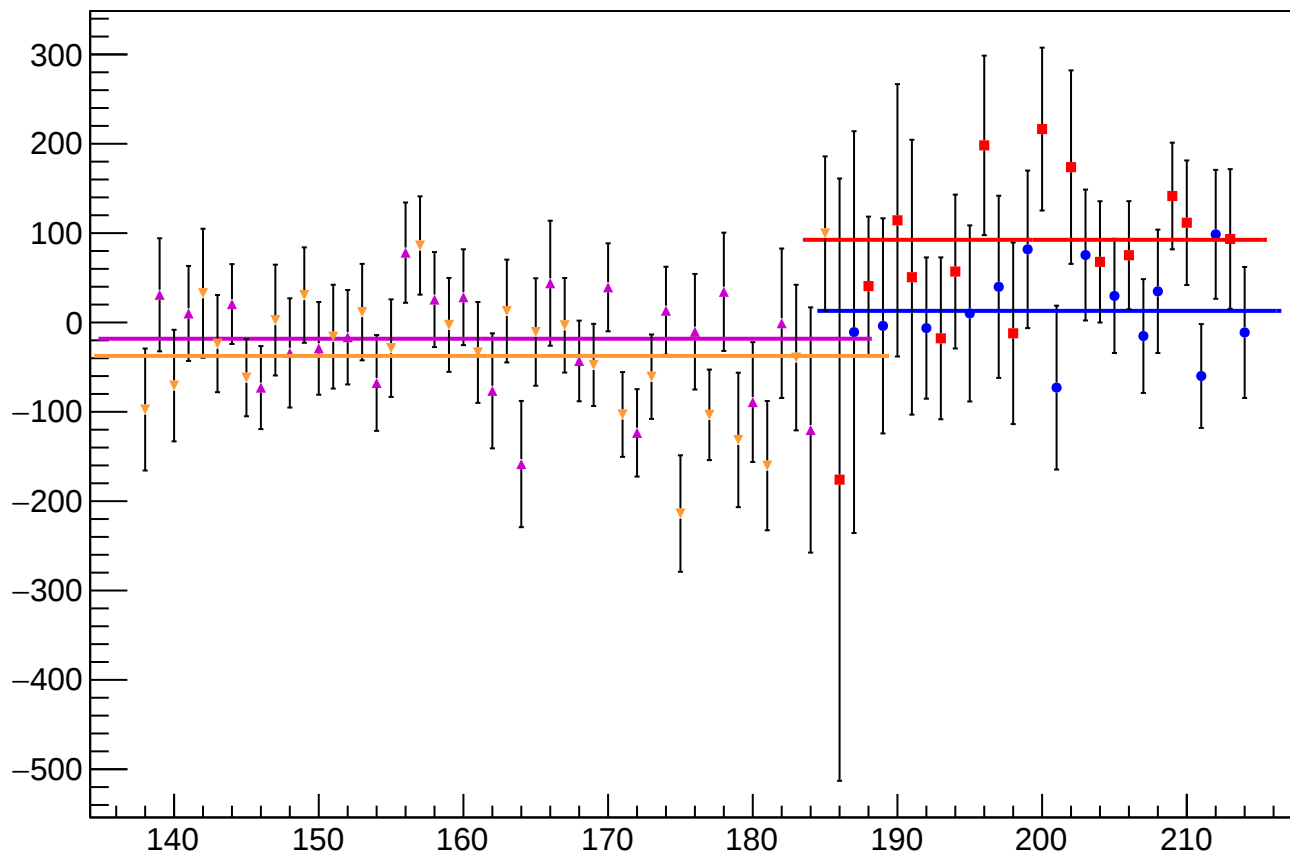
Right: 1759.726 $\pm$ 0.283 χ^2 /NDF: 1490696.3/28

In: 527.604 $\pm$ 0.081 χ^2 /NDF: 12330397.1/36

Out: 527.244 $\pm$ 0.080 χ^2 /NDF: 13466317.3/39

All: 527.421 $\pm$ 0.057 χ^2 /NDF: 25796724.4/76

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 12.989 ± 21.048 χ^2/NDF : 5.8/13

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

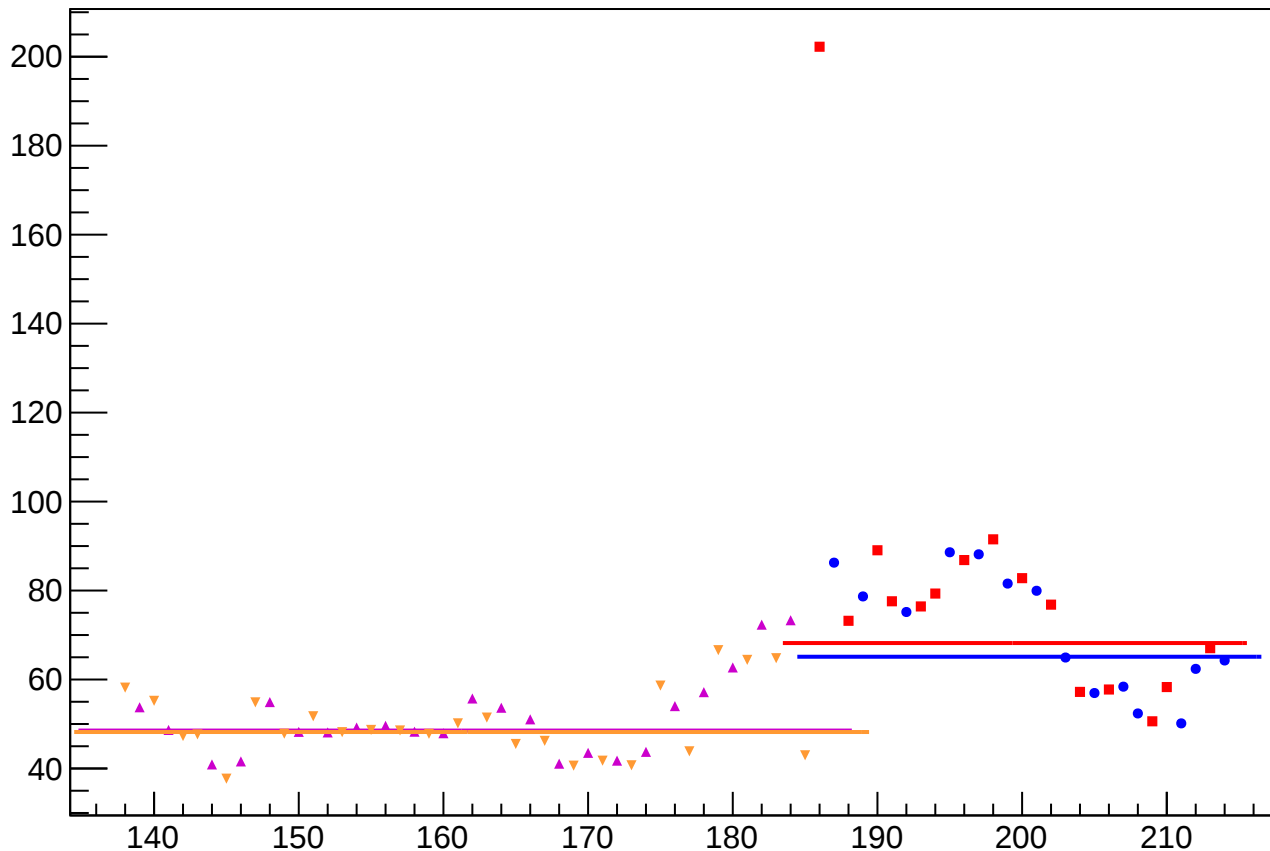
Right: 50.923 ± 15.222 χ^2/NDF : 21.0/28

In: -10.761 ± 10.285 χ^2/NDF : 30.5/36

Out: -10.027 ± 10.118 χ^2/NDF : 66.3/39

All: -10.388 ± 7.213 χ^2/NDF : 96.8/76

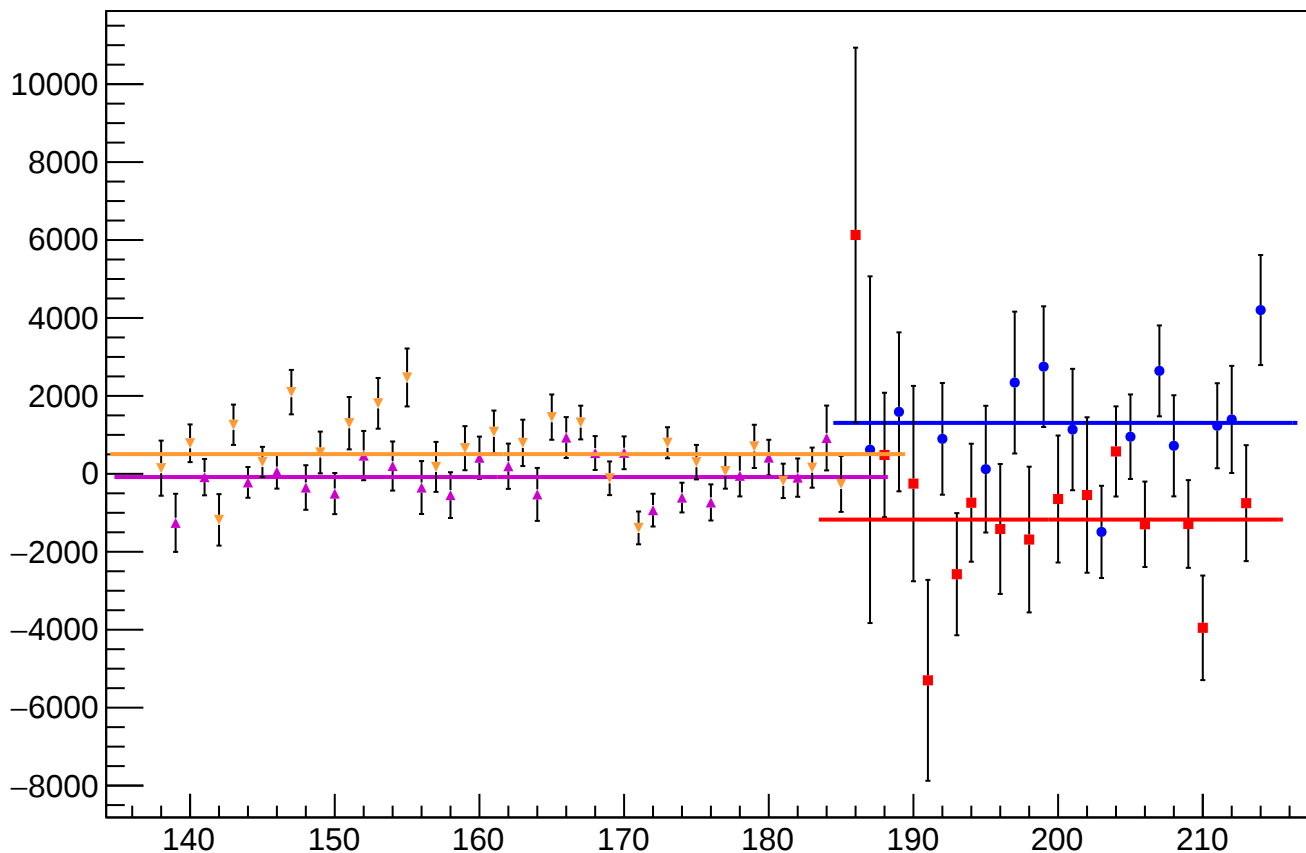
reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 65.121 $\pm$ 0.015 χ^2 /NDF: 671912.4/13
 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: 66.589 $\pm$ 0.011 χ^2 /NDF: 1676467.4/28
 In: 52.489 $\pm$ 0.007 χ^2 /NDF: 2293598.6/36
 Out: 52.415 $\pm$ 0.007 χ^2 /NDF: 3034108.0/39
 All: 52.451 $\pm$ 0.005 χ^2 /NDF: 5327759.0/76

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1307.476 $\pm$ 376.578 χ^2 /NDF: 13.3/13

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

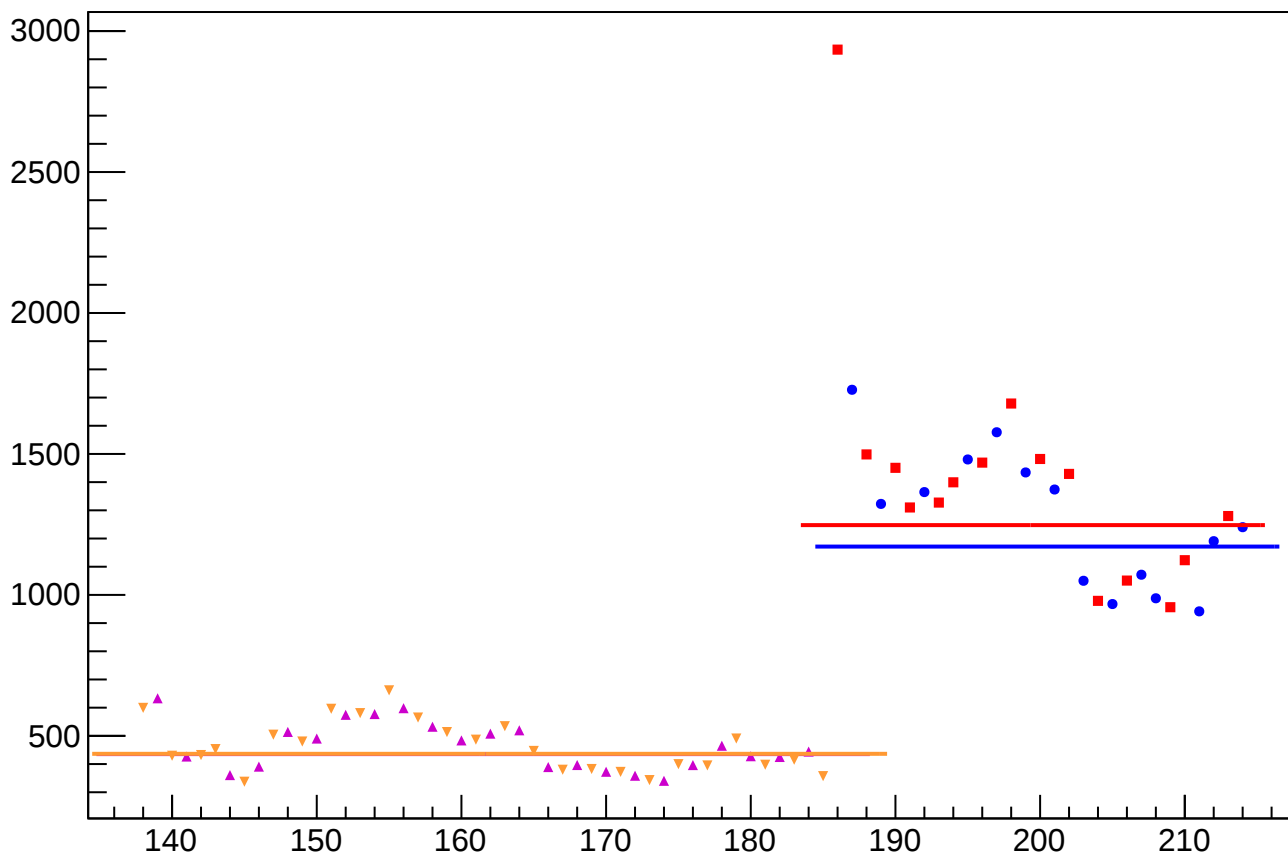
Right: 142.727 $\pm$ 274.307 χ^2 /NDF: 47.6/28

In: 19.504 $\pm$ 101.977 χ^2 /NDF:51.3/36

Out: 401.025 $\pm$ 100.177 χ^2 /NDF:96.2/39

All: 213.662 $\pm$ 71.464 χ^2 /NDF: 154.5/76

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1171.449+/-0.266 χ^2/NDF : 581755.2/13

Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24

Right Out: 1247.572+/-0.283 χ^2/NDF : 859393.8/14

Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

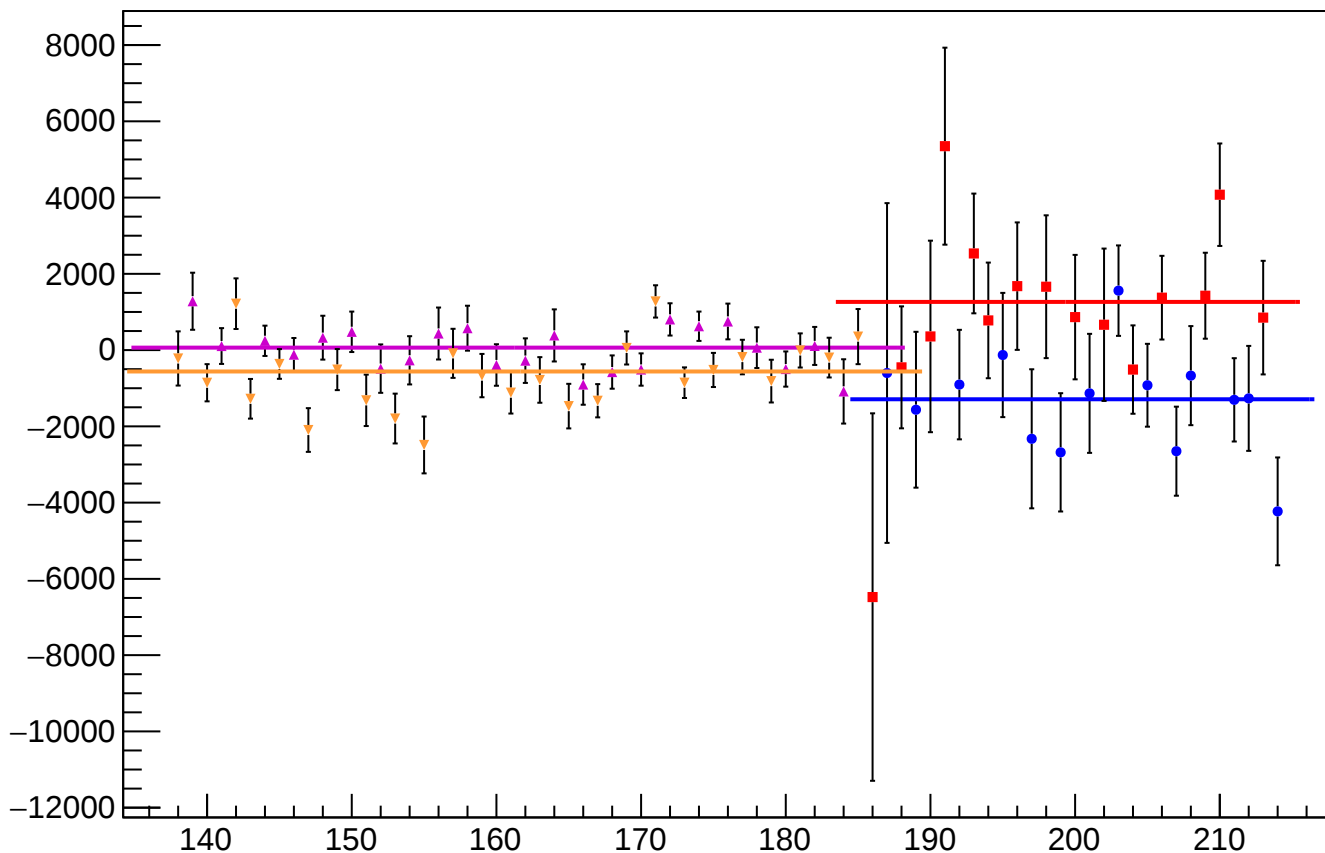
Right: 1207.181+/-0.194 χ^2/NDF : 1479510.8/28

In: 489.260+/-0.072 χ^2/NDF : 8692278.7/36

Out: 487.090+/-0.071 χ^2/NDF : 9736348.5/39

All: 488.156+/-0.051 χ^2/NDF : 18429088.0/76

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1289.575 ± 377.203 $\chi^2/\text{NDF}: 13.6/13$

Left Out: -560.684 ± 104.207 $\chi^2/\text{NDF}: 61.8/24$

Right Out: 1263.890 ± 401.026 $\chi^2/\text{NDF}: 14.2/14$

Left In: 64.594 ± 106.708 $\chi^2/\text{NDF}: 25.2/22$

Left: -255.457 ± 74.554 $\chi^2/\text{NDF}: 104.5/47$

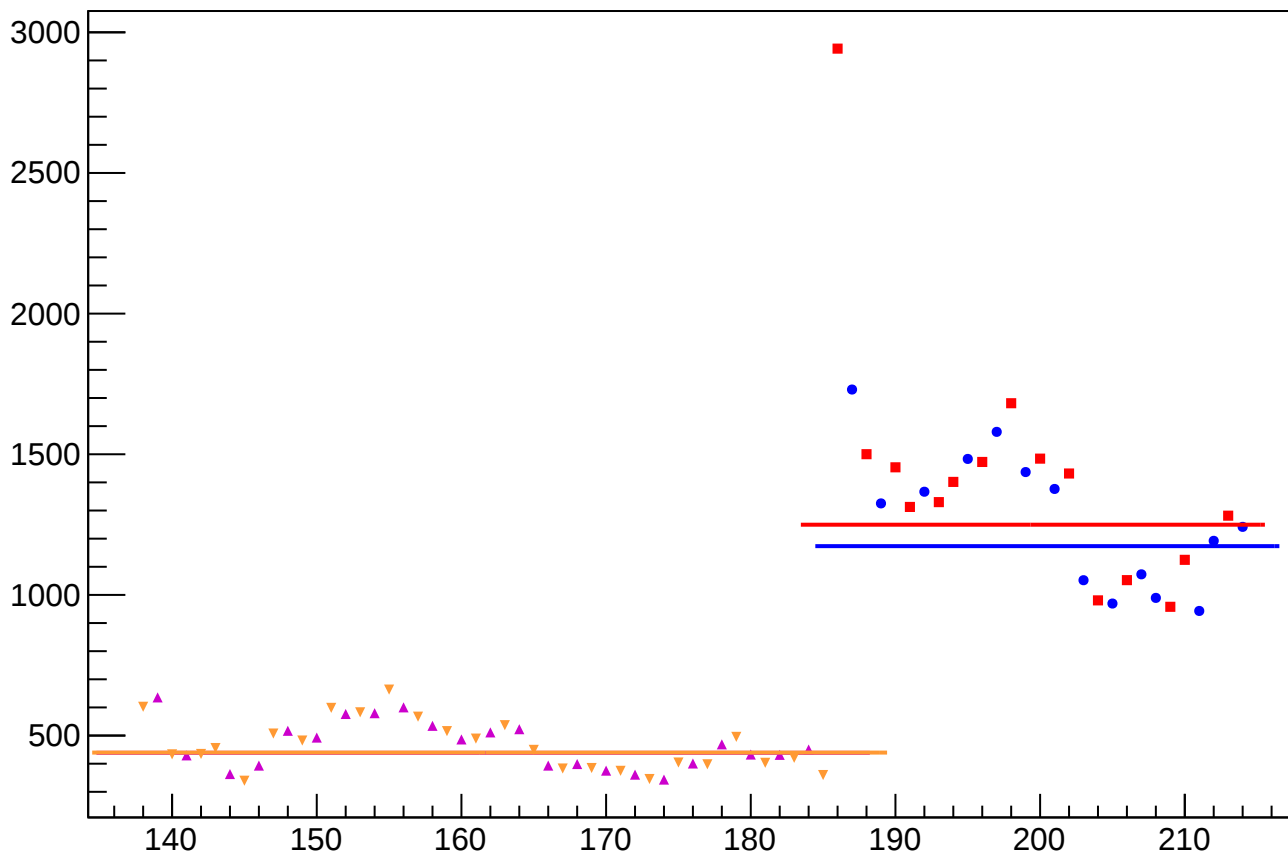
Right: -90.934 ± 274.759 $\chi^2/\text{NDF}: 49.3/28$

In: -35.747 ± 102.678 $\chi^2/\text{NDF}: 50.7/36$

Out: -445.276 ± 100.858 $\chi^2/\text{NDF}: 95.3/39$

All: -244.174 ± 71.952 $\chi^2/\text{NDF}: 154.1/76$

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1173.388 $\pm$ 0.267 χ^2 /NDF: 582137.4/13

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

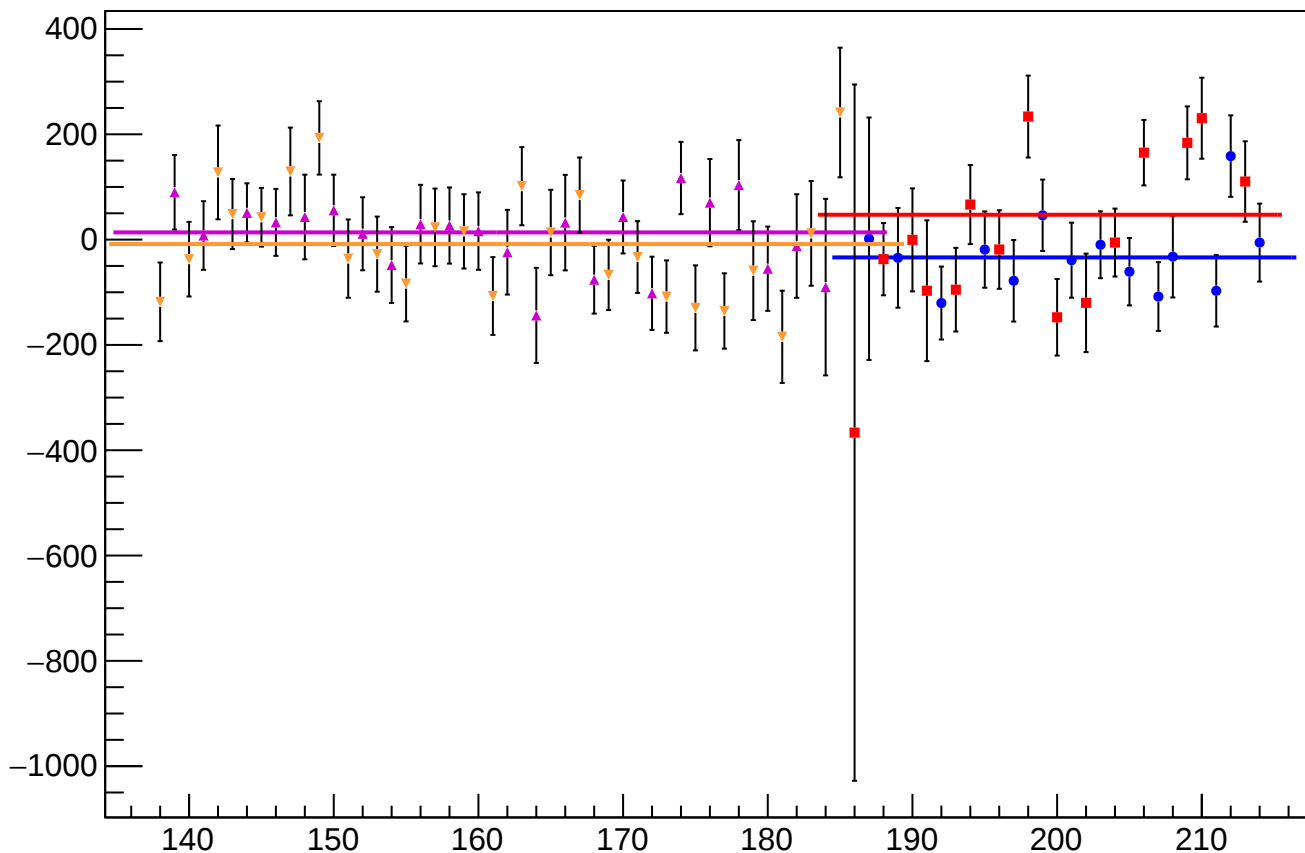
Right: 1209.157 $\pm$ 0.194 χ^2 /NDF: 1480537.3/28

In: 492.998 $\pm$ 0.073 χ^2 /NDF: 8623184.6/36

Out: 490.765 $\pm$ 0.071 χ^2 /NDF: 9667850.3/39

All: 491.861 $\pm$ 0.051 χ^2 /NDF: 18291516.3/76

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -33.823 ± 19.724 χ^2/NDF : 12.2/13

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

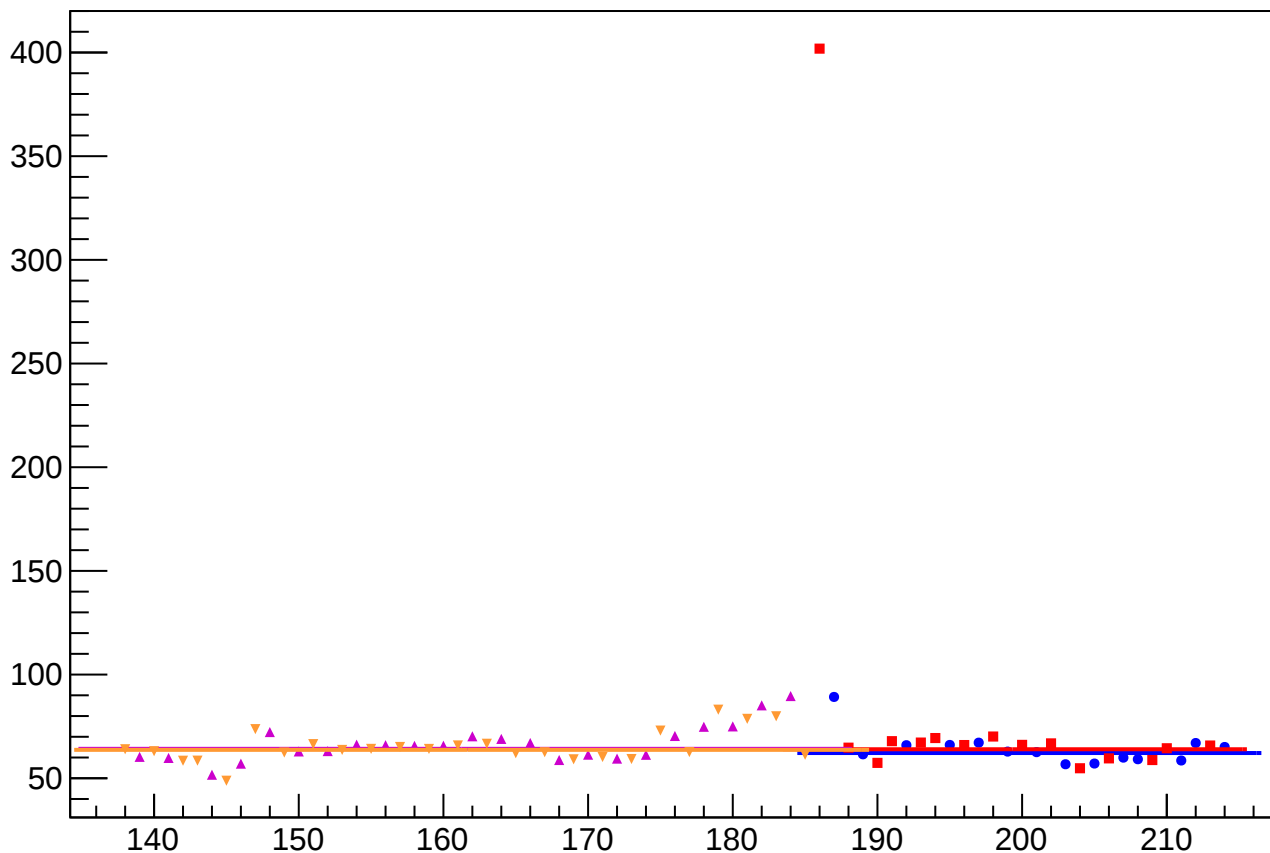
Right: 5.379 ± 14.173 χ^2/NDF : 58.4/28

In: -4.397 ± 12.176 χ^2/NDF : 32.0/36

Out: 11.027 ± 12.046 χ^2/NDF : 84.5/39

All: 3.397 ± 8.564 χ^2/NDF : 117.3/76

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 62.164 $\pm$ 0.014 χ^2 /NDF: 96904.4/13

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

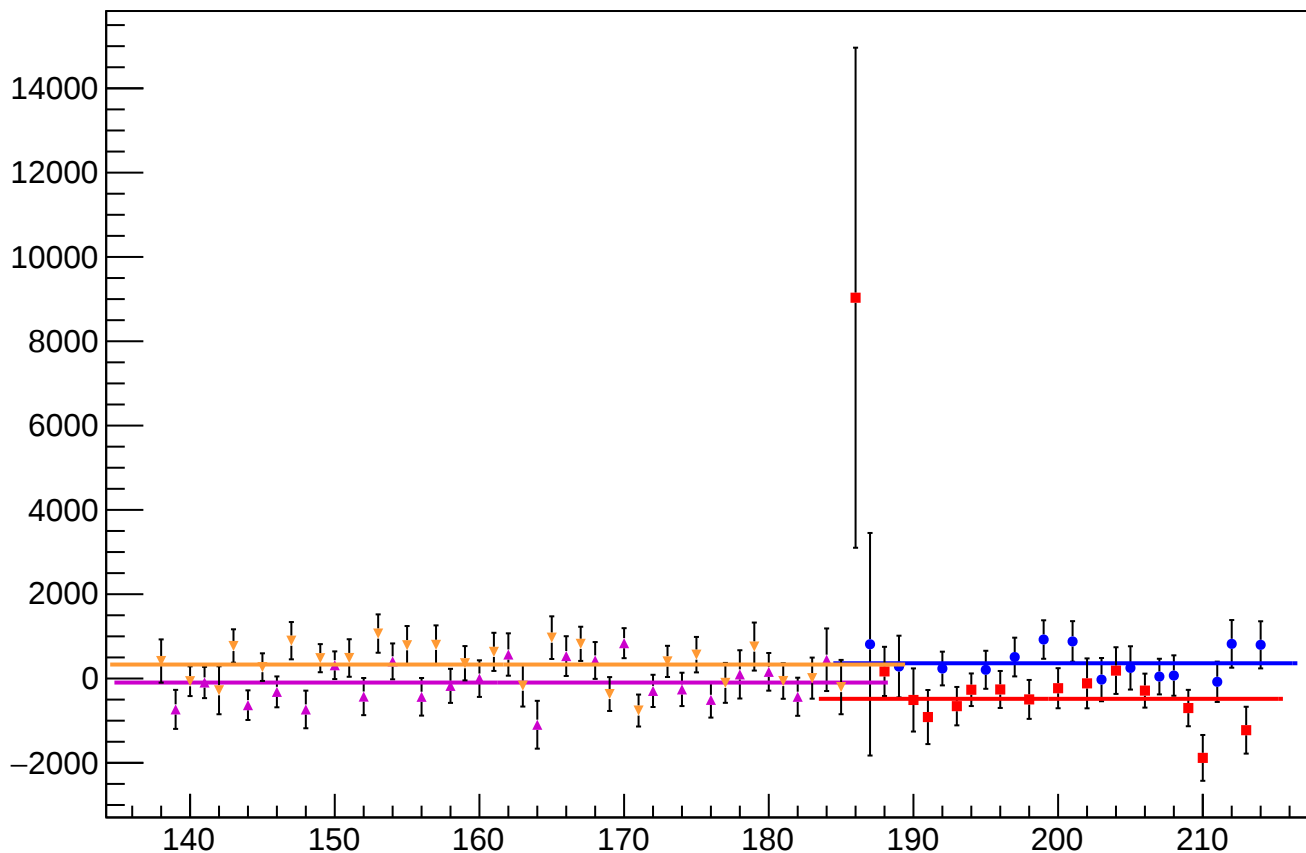
Right: 63.045 $\pm$ 0.010 χ^2 /NDF: 732458.7/28

In: 63.417 $\pm$ 0.009 χ^2 /NDF: 539627.5/36

Out: 63.797 $\pm$ 0.009 χ^2 /NDF: 1075999.7/39

All: 63.609 $\pm$ 0.006 χ^2 /NDF: 1616612.3/76

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 361.809 ± 134.488 χ^2/NDF : 6.7/13

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

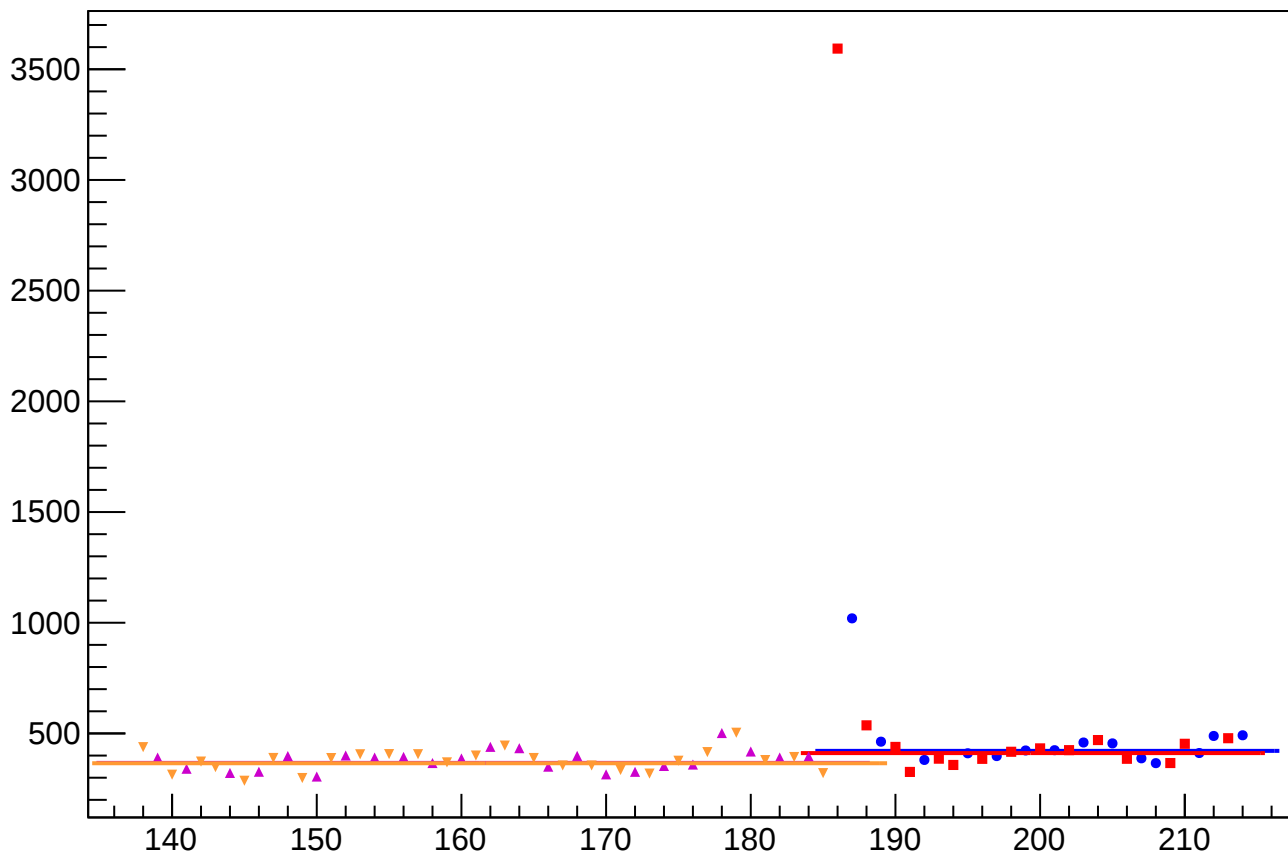
Right: -67.443 ± 94.256 χ^2/NDF : 42.8/28

In: 42.743 ± 74.020 χ^2/NDF : 43.5/36

Out: 89.385 ± 72.121 χ^2/NDF : 72.5/39

All: 66.670 ± 51.655 χ^2/NDF : 116.2/76

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 421.245+/-0.095 χ^2/NDF : 256632.6/13

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

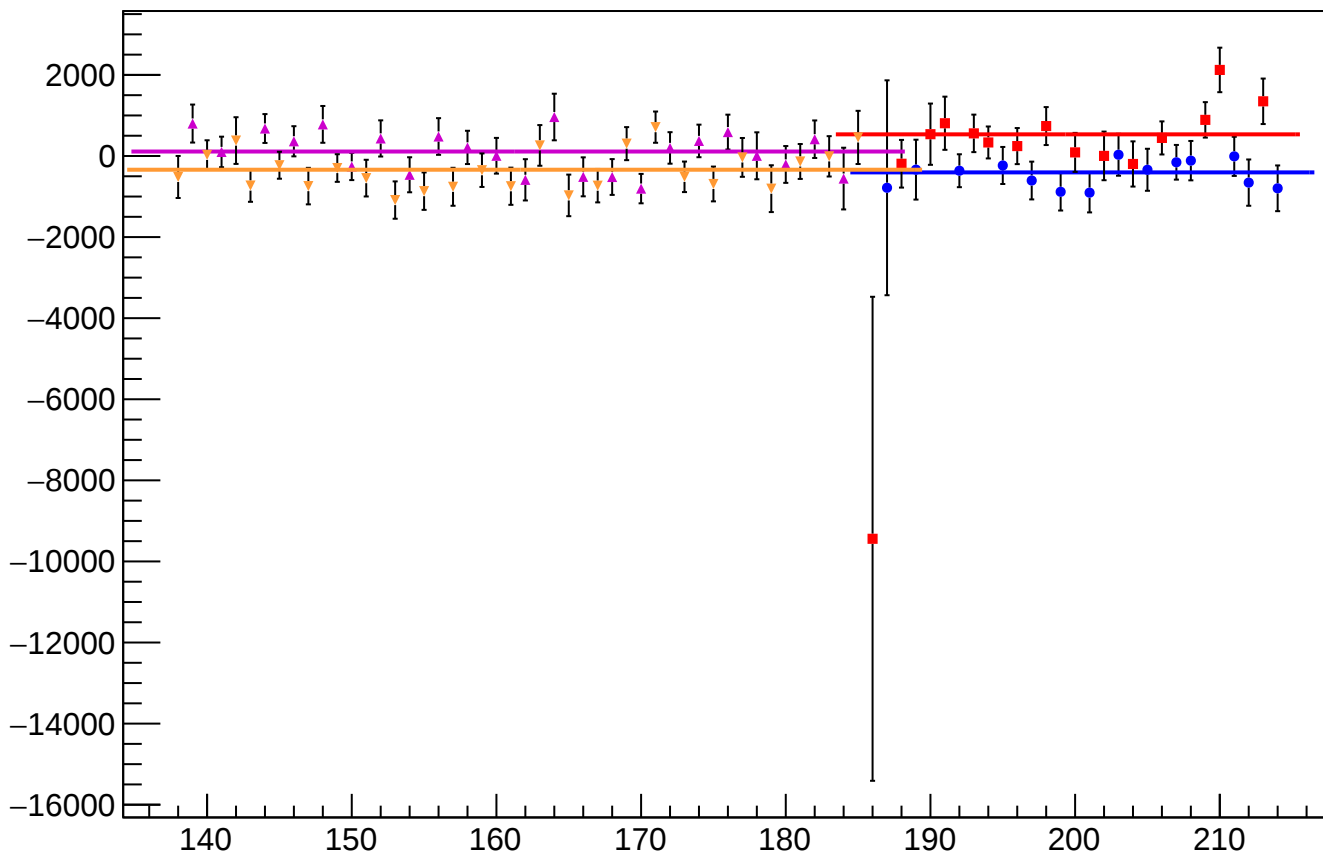
Right: 416.136+/-0.067 χ^2/NDF : 1118916.1/28

In: 383.379+/-0.052 χ^2/NDF : 962153.3/36

Out: 379.013+/-0.051 χ^2/NDF : 1644116.4/39

All: 381.139+/-0.037 χ^2/NDF : 2609840.1/76

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -404.322 ± 136.050 χ^2/NDF : 5.3/13

Left Out: -338.528 ± 87.450 χ^2/NDF : 28.2/24

Right Out: 534.082 ± 133.887 χ^2/NDF : 19.9/14

Left In: 110.341 ± 90.084 χ^2/NDF : 29.2/22

Left: -120.751 ± 62.747 χ^2/NDF : 70.2/47

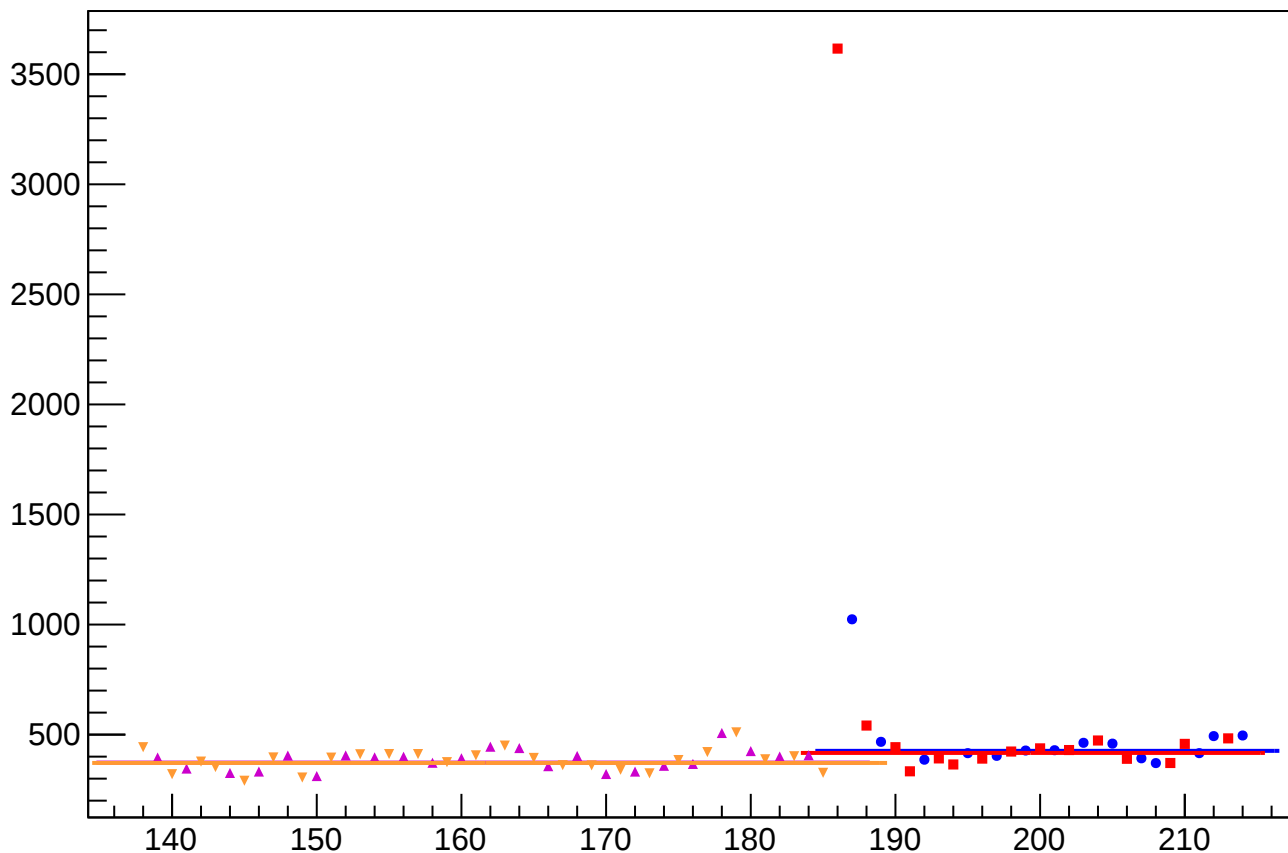
Right: 72.397 ± 95.428 χ^2/NDF : 49.4/28

In: -46.527 ± 75.111 χ^2/NDF : 44.4/36

Out: -77.579 ± 73.216 χ^2/NDF : 77.9/39

All: -62.450 ± 52.429 χ^2/NDF : 122.4/76

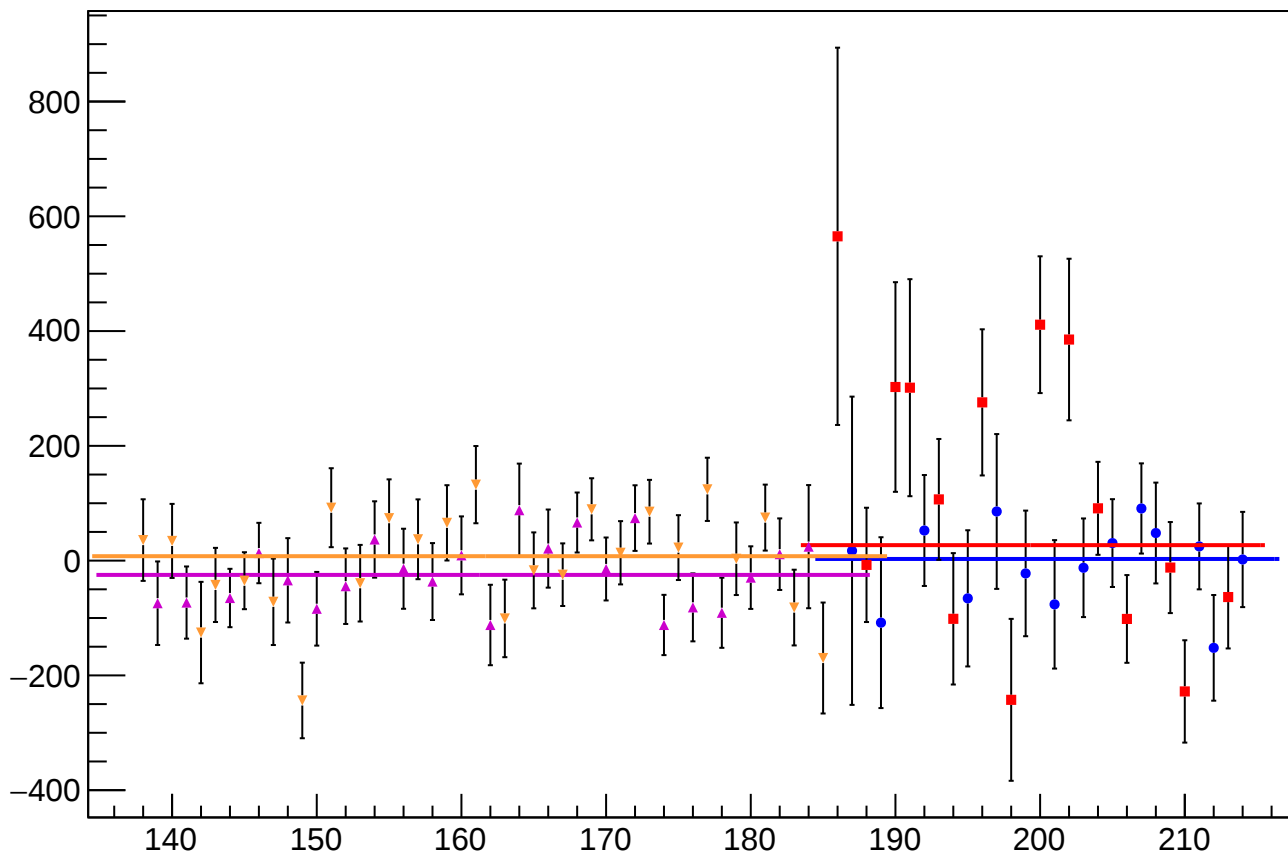
asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 426.265 $\pm$ 0.096 χ^2 /NDF: 249138.4/13
 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: 421.479 $\pm$ 0.067 χ^2 /NDF: 1096062.1/28
 In: 389.192 $\pm$ 0.053 χ^2 /NDF: 930101.6/36
 Out: 384.959 $\pm$ 0.052 χ^2 /NDF: 1607944.0/39
 All: 387.021 $\pm$ 0.037 χ^2 /NDF: 2541302.7/76

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 2.896 ± 25.866 $\chi^2/\text{NDF}: 6.7/13$

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 $\chi^2/\text{NDF}: 68.4/47$

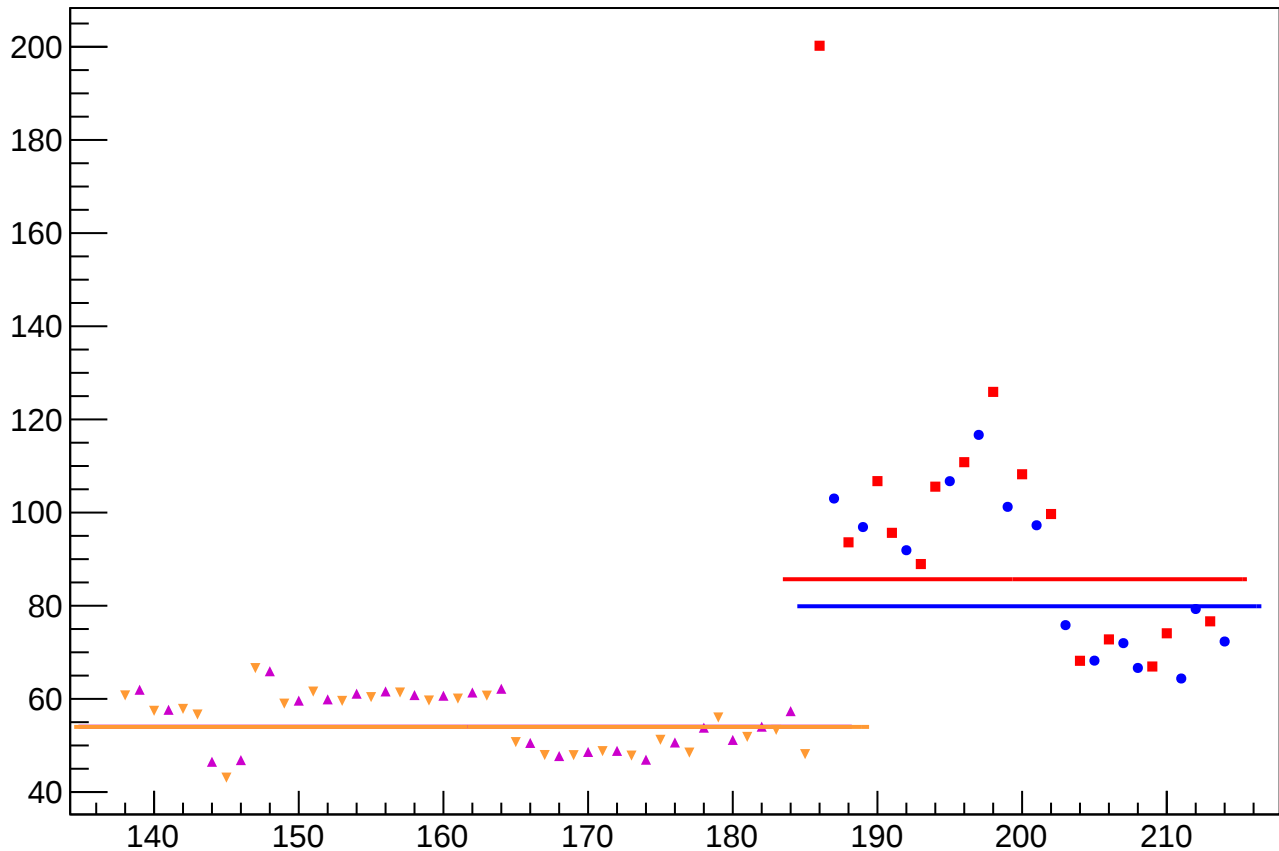
Right: 14.096 ± 18.916 $\chi^2/\text{NDF}: 53.3/28$

In: -19.265 ± 11.636 $\chi^2/\text{NDF}: 27.3/36$

Out: 11.041 ± 11.514 $\chi^2/\text{NDF}: 92.0/39$

All: -3.952 ± 8.184 $\chi^2/\text{NDF}: 122.8/76$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 79.887 $\pm$ 0.018 χ^2 /NDF: 666814.0/13

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

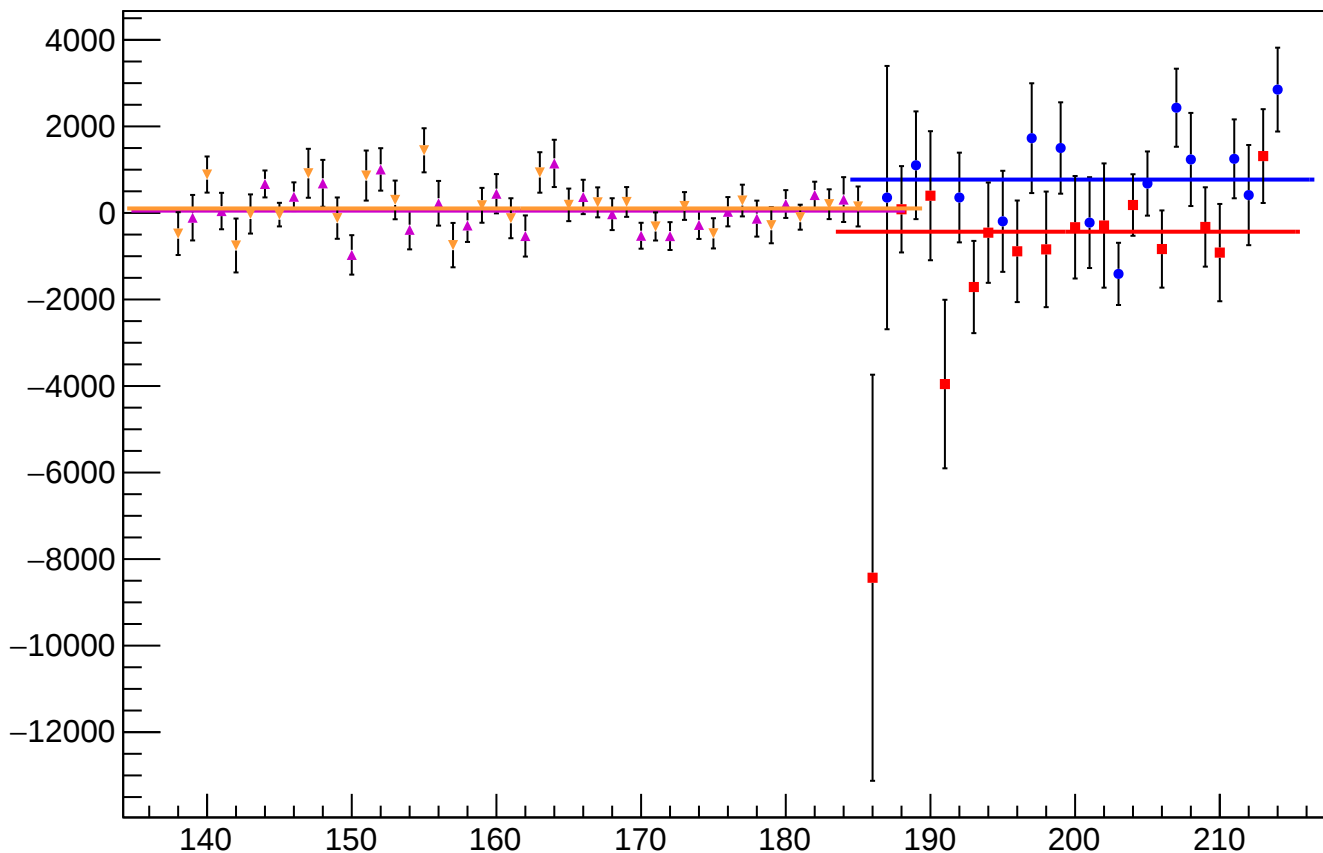
Right: 82.586 $\pm$ 0.013 χ^2 /NDF: 1711592.9/28

In: 59.261 $\pm$ 0.008 χ^2 /NDF: 2705018.9/36

Out: 59.448 $\pm$ 0.008 χ^2 /NDF: 3620372.3/39

All: 59.355 $\pm$ 0.006 χ^2 /NDF: 6325653.1/76

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 771.100 ± 270.156 $\chi^2/\text{NDF}: 20.6/13$

Left Out: 103.768 ± 79.344 $\chi^2/\text{NDF}: 31.0/24$

Right Out: -433.832 ± 289.449 $\chi^2/\text{NDF}: 12.2/14$

Left In: 53.493 ± 81.201 $\chi^2/\text{NDF}: 34.1/22$

Left: 79.212 ± 56.750 $\chi^2/\text{NDF}: 65.3/47$

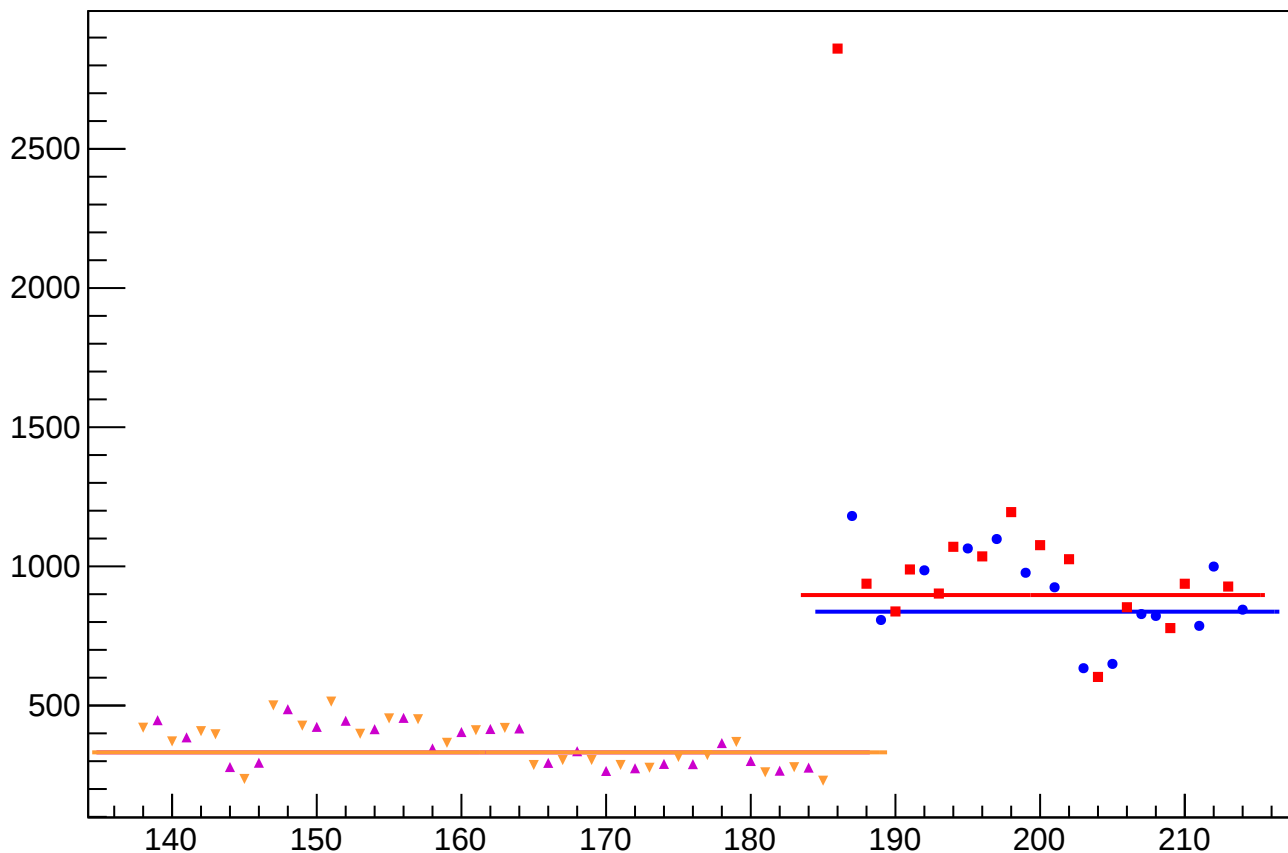
Right: 210.124 ± 197.498 $\chi^2/\text{NDF}: 42.1/28$

In: 112.952 ± 77.764 $\chi^2/\text{NDF}: 61.2/36$

Out: 66.194 ± 76.521 $\chi^2/\text{NDF}: 46.4/39$

All: 89.196 ± 54.543 $\chi^2/\text{NDF}: 107.8/76$

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 837.166+/-0.191 χ^2/NDF : 610861.4/13

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

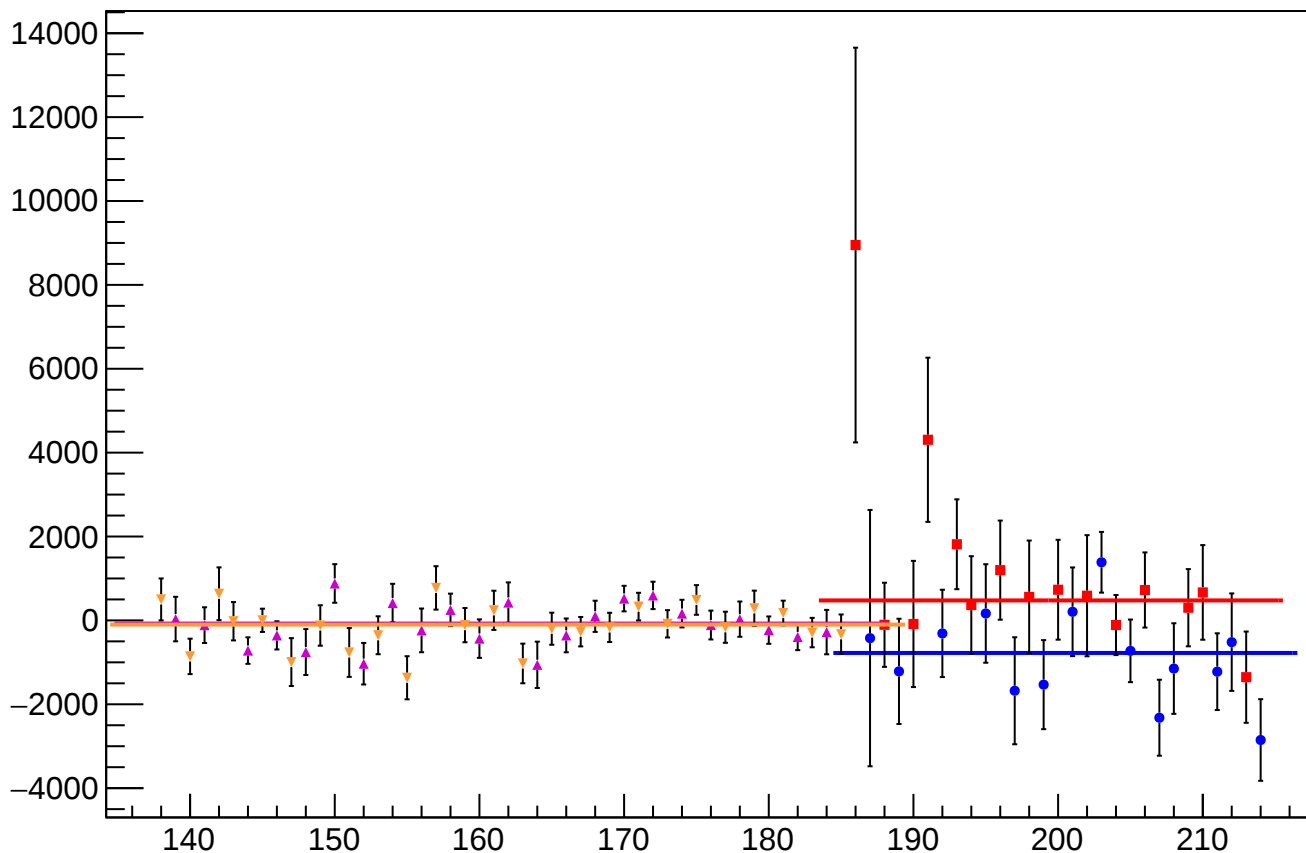
Right: 864.989+/-0.140 χ^2/NDF : 1636563.6/28

In: 373.550+/-0.055 χ^2/NDF : 8336185.4/36

Out: 371.270+/-0.054 χ^2/NDF : 9783731.1/39

All: 372.392+/-0.039 χ^2/NDF : 18120790.3/76

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -776.082+/-271.605 χ^2/NDF : 19.6/13

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

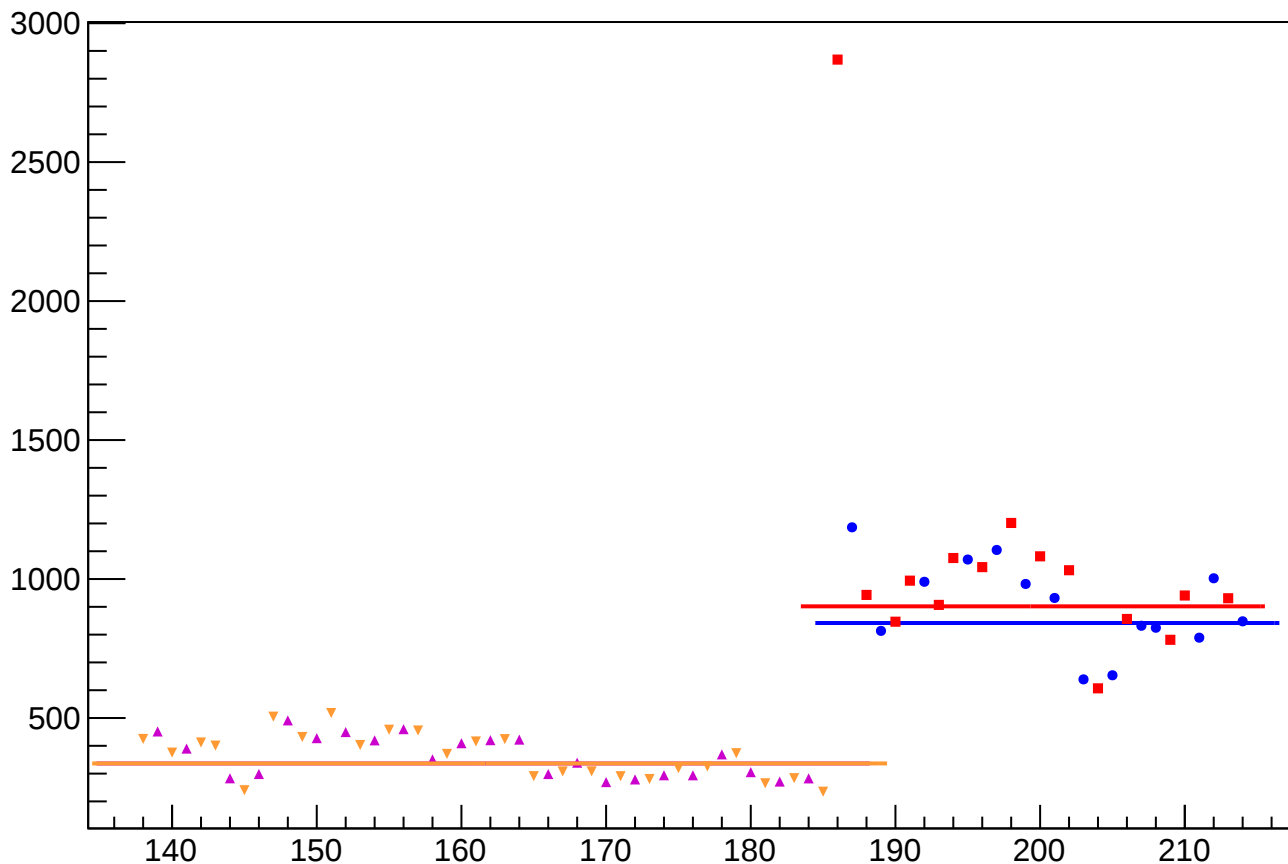
Right: -192.788+/-198.545 χ^2/NDF : 42.7/28

In: -134.513+/-78.780 χ^2/NDF : 57.8/36

Out: -58.870+/-77.521 χ^2/NDF : 47.5/39

All: -96.082+/-55.255 χ^2/NDF : 105.8/76

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 841.784 $\pm$ 0.192 χ^2 /NDF: 606616.9/13

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

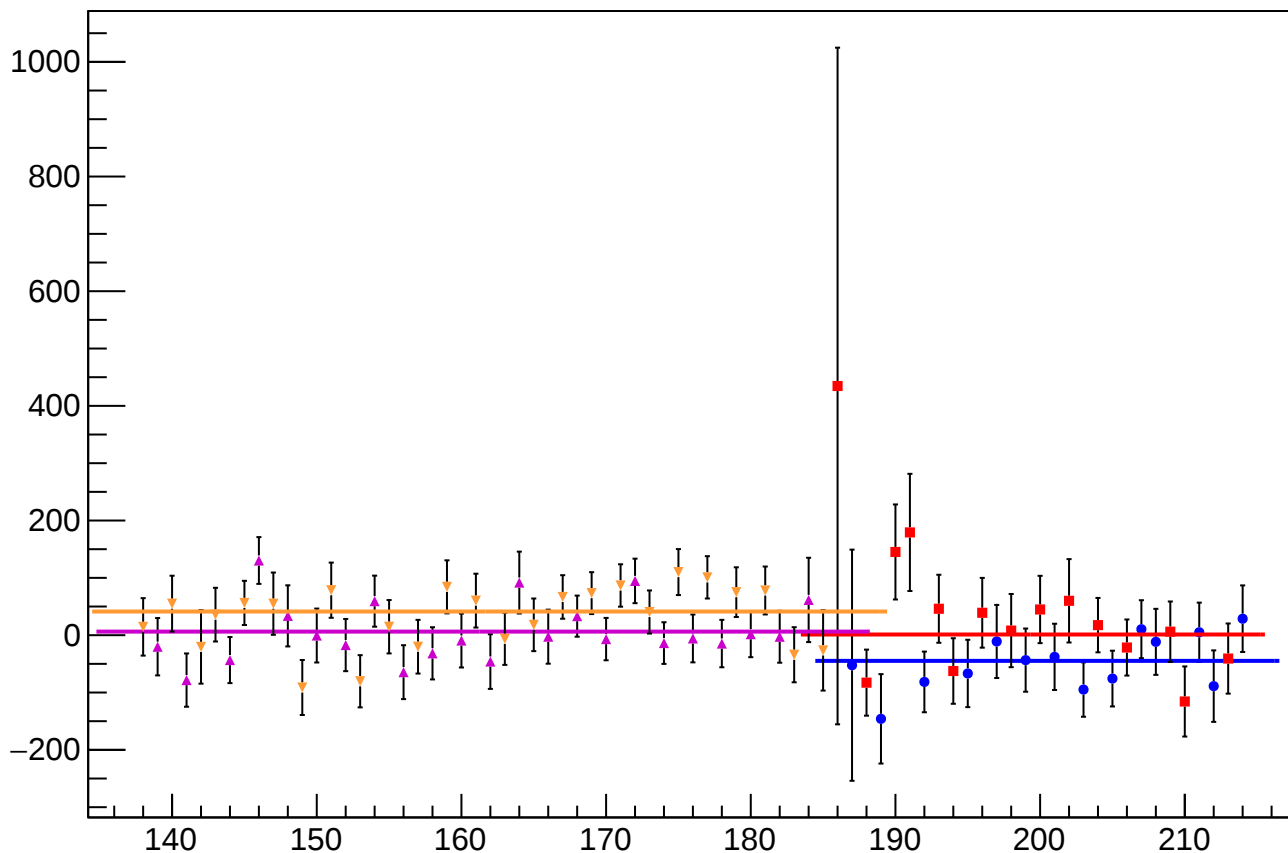
Right: 869.700 $\pm$ 0.140 χ^2 /NDF: 1629180.0/28

In: 378.955 $\pm$ 0.056 χ^2 /NDF: 8216771.7/36

Out: 376.676 $\pm$ 0.055 χ^2 /NDF: 9653613.3/39

All: 377.797 $\pm$ 0.039 χ^2 /NDF: 17871235.0/76

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -44.785 ± 15.431 χ^2/NDF : 8.7/13

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: 1.202 ± 16.038 χ^2/NDF : 16.6/14

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

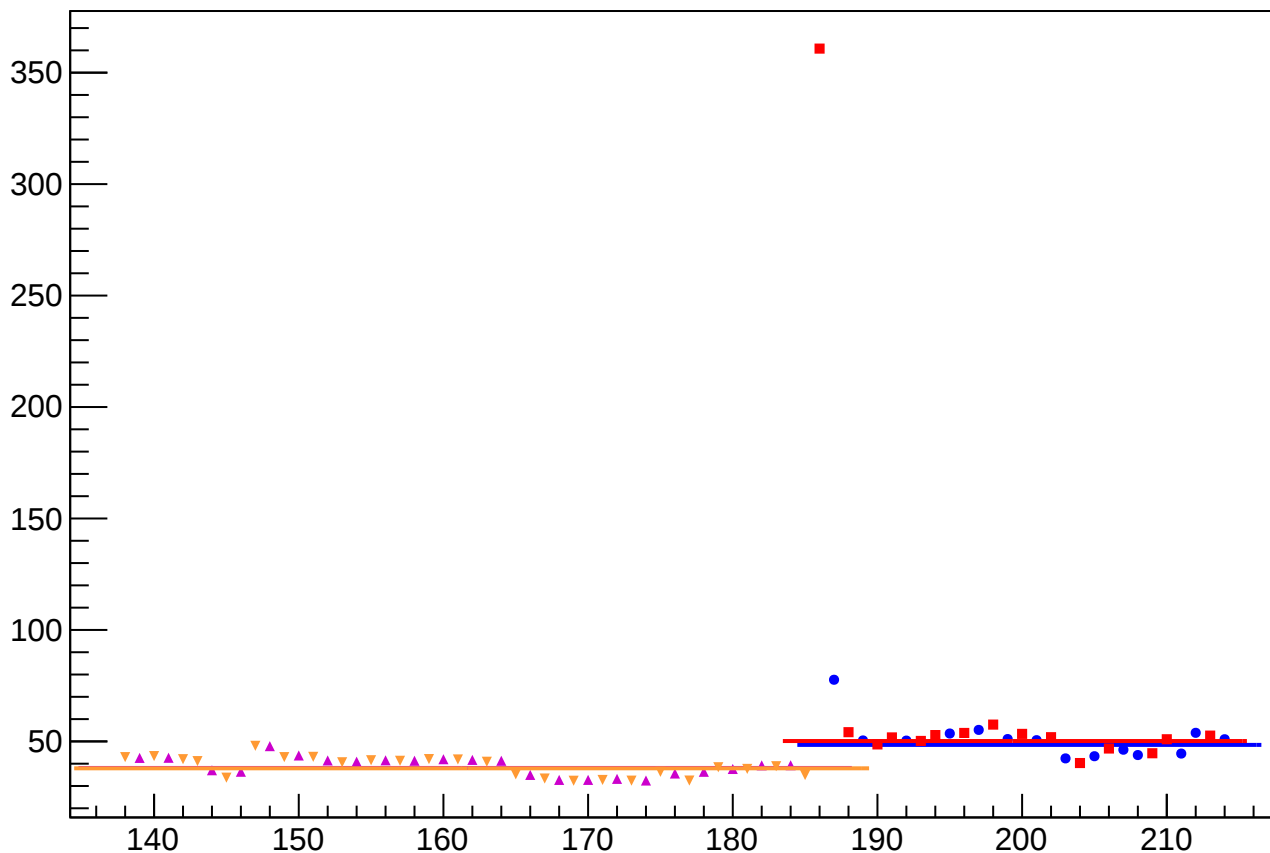
Right: -22.677 ± 11.120 χ^2/NDF : 29.5/28

In: -7.076 ± 7.886 χ^2/NDF : 47.0/36

Out: 31.864 ± 7.775 χ^2/NDF : 55.7/39

All: 12.671 ± 5.537 χ^2/NDF : 115.1/76

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.434 $\pm$ 0.011 χ^2 /NDF: 191465.3/13

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

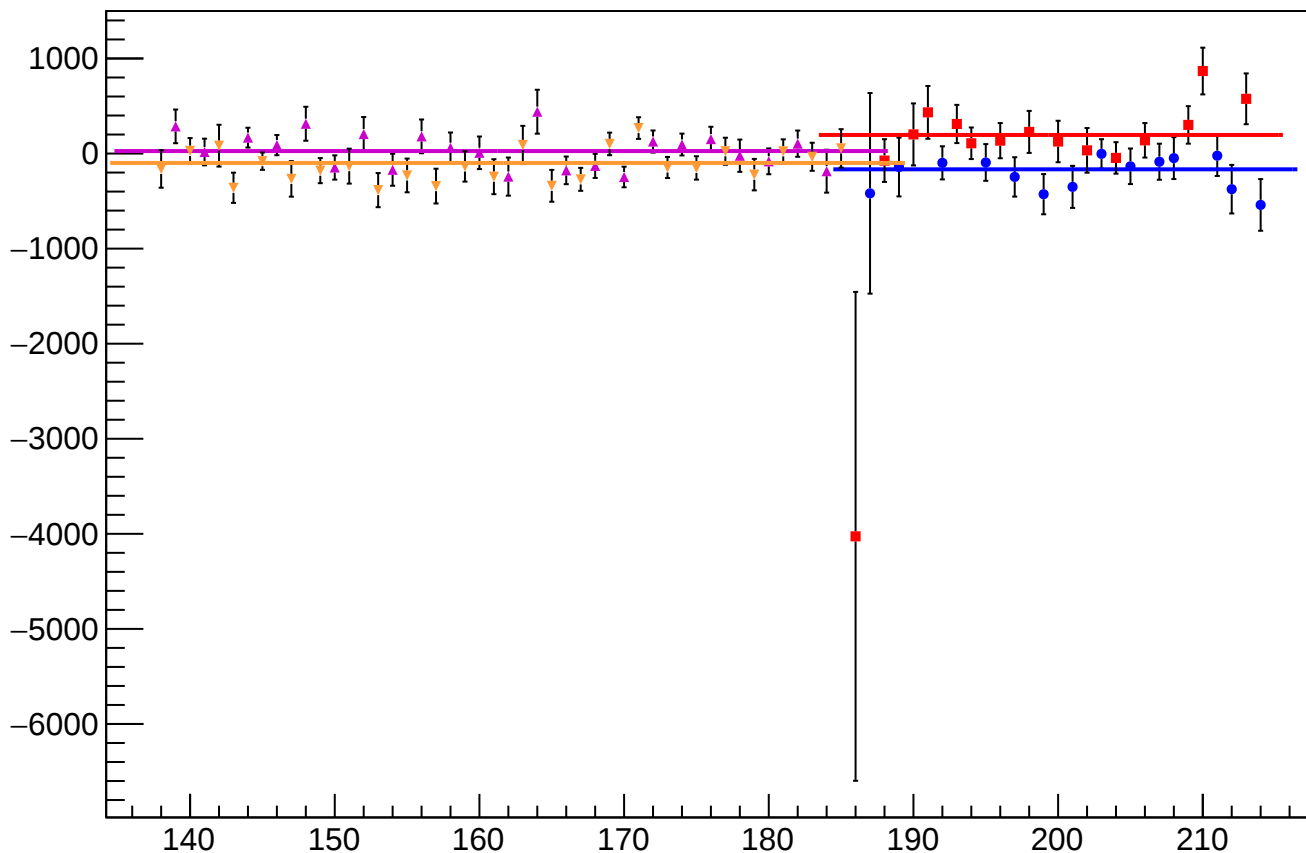
Right: 49.267 $\pm$ 0.008 χ^2 /NDF: 934789.1/28

In: 40.790 $\pm$ 0.006 χ^2 /NDF: 1252157.9/36

Out: 40.802 $\pm$ 0.005 χ^2 /NDF: 2109593.3/39

All: 40.796 $\pm$ 0.004 χ^2 /NDF: 3361753.6/76

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -165.892 ± 57.063 χ^2/NDF : 7.4/13

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

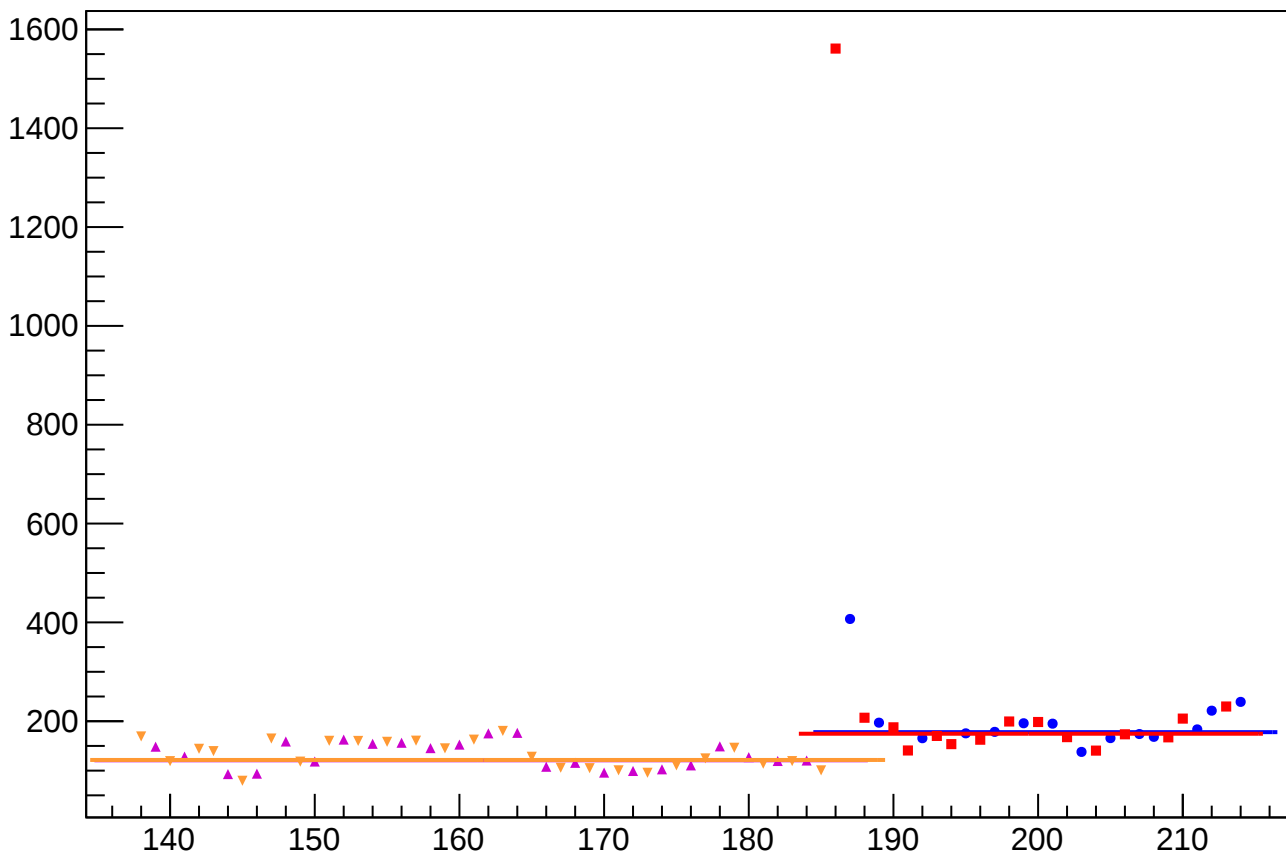
Right: 17.248 ± 40.084 χ^2/NDF : 45.9/28

In: -14.675 ± 26.328 χ^2/NDF : 46.9/36

Out: -36.723 ± 25.849 χ^2/NDF : 72.5/39

All: -25.901 ± 18.445 χ^2/NDF : 119.8/76

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 177.868+/-0.040 χ^2/NDF : 446581.7/13

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

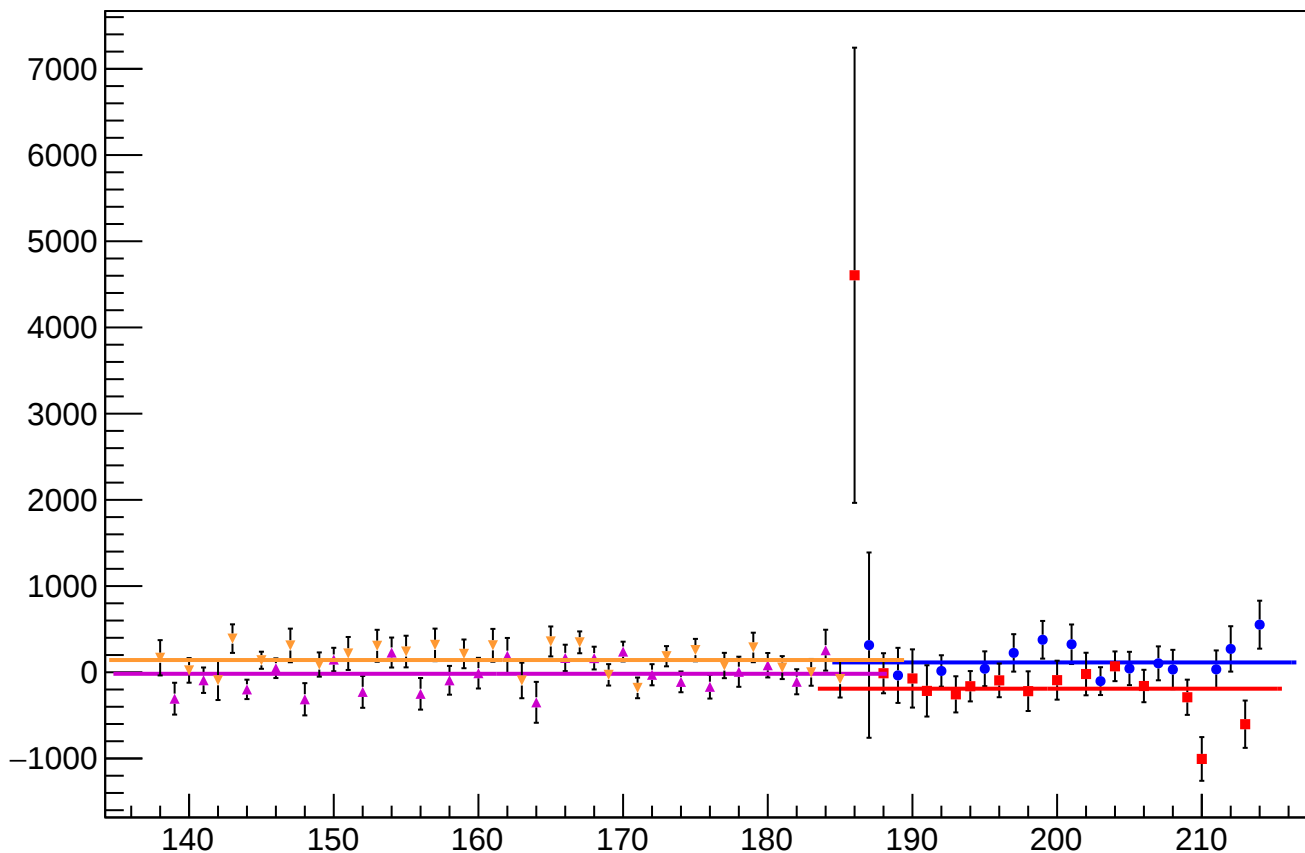
Right: 176.248+/-0.028 χ^2/NDF : 1401998.5/28

In: 133.048+/-0.019 χ^2/NDF : 3396967.9/36

Out: 132.774+/-0.018 χ^2/NDF : 4065949.3/39

All: 132.909+/-0.013 χ^2/NDF : 7463027.7/76

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 114.166 ± 59.274 $\chi^2/\text{NDF}: 8.3/13$

Left Out: 142.014 ± 30.574 $\chi^2/\text{NDF}: 26.9/24$

Right Out: -190.504 ± 58.761 $\chi^2/\text{NDF}: 20.2/14$

Left In: -17.679 ± 31.209 $\chi^2/\text{NDF}: 30.1/22$

Left: 63.807 ± 21.840 $\chi^2/\text{NDF}: 70.4/47$

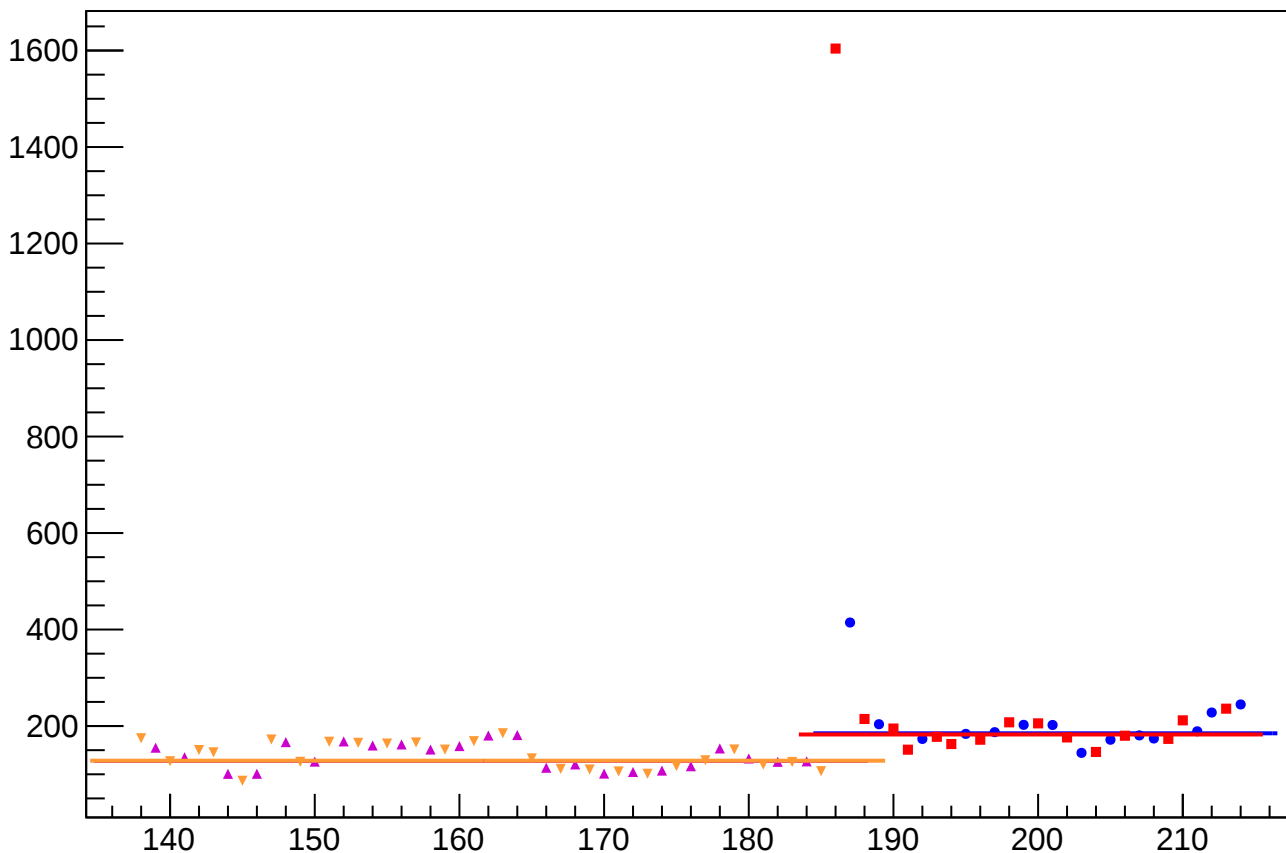
Right: -39.494 ± 41.731 $\chi^2/\text{NDF}: 41.8/28$

In: 10.937 ± 27.615 $\chi^2/\text{NDF}: 42.3/36$

Out: 71.172 ± 27.123 $\chi^2/\text{NDF}: 72.3/39$

All: 41.596 ± 19.350 $\chi^2/\text{NDF}: 117.0/76$

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 184.946 $\pm$ 0.042 χ^2 /NDF: 418477.6/13

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

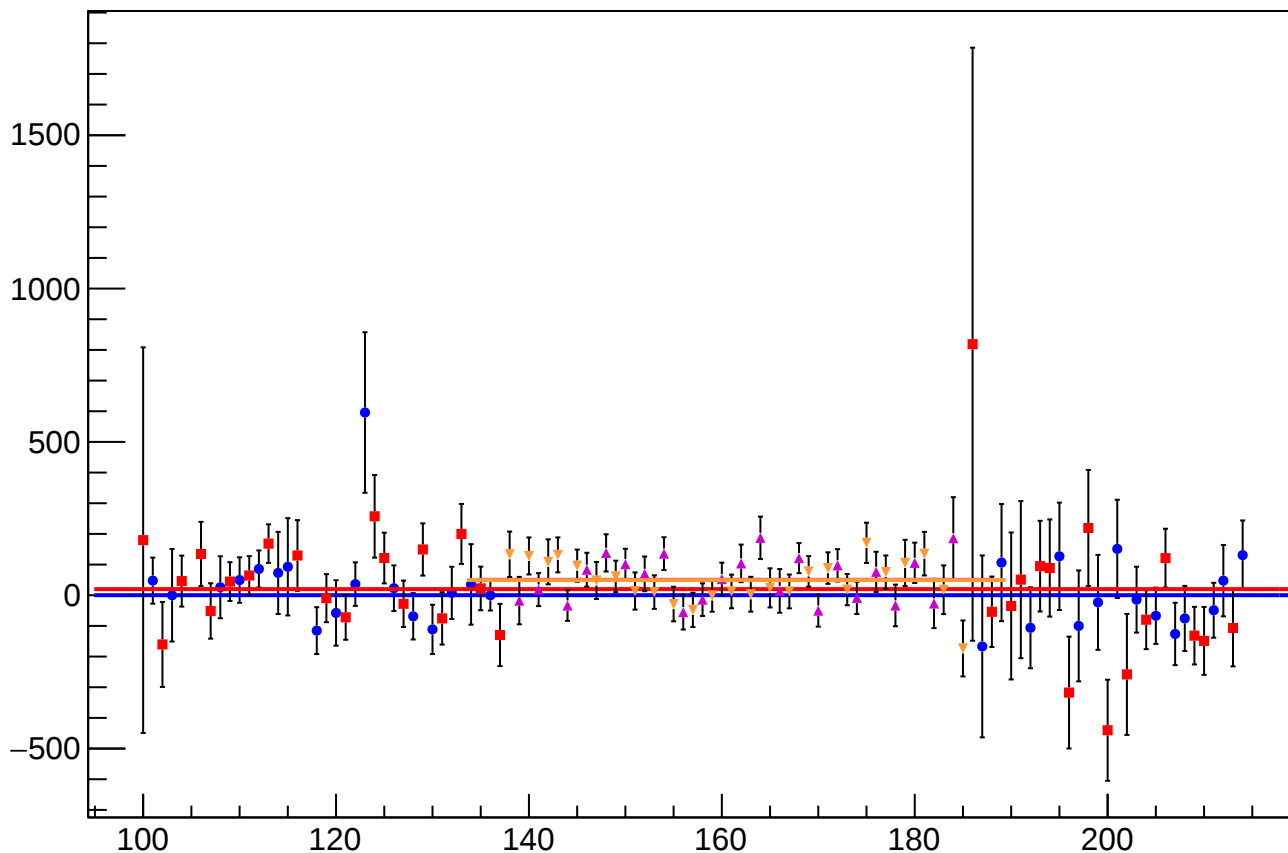
Right: 183.718 $\pm$ 0.030 χ^2 /NDF: 1337056.8/28

In: 140.003 $\pm$ 0.020 χ^2 /NDF: 3122742.3/36

Out: 139.751 $\pm$ 0.019 χ^2 /NDF: 3795539.0/39

All: 139.875 $\pm$ 0.014 χ^2 /NDF: 6918365.7/76

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 0.165+/-17.246 χ^2/NDF : 21.9/30

Left Out: 49.402+/-11.806 χ^2/NDF : 28.1/24

Right Out: 19.947+/-17.068 χ^2/NDF : 50.7/33

Left In: 50.331+/-12.253 χ^2/NDF : 32.2/22

Left: 49.849+/-8.502 χ^2/NDF : 60.3/47

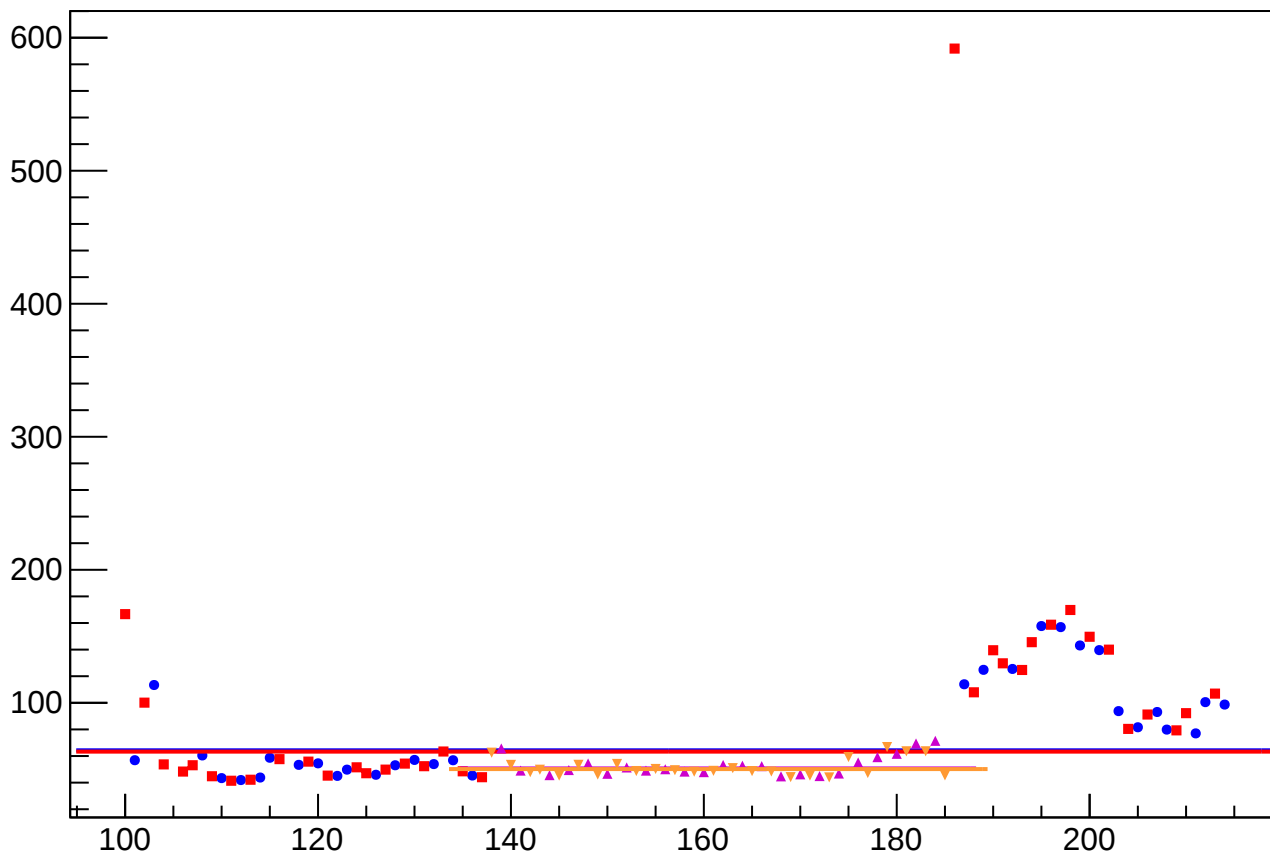
Right: 10.158+/-12.131 χ^2/NDF : 73.3/64

In: 33.501+/-9.989 χ^2/NDF : 59.7/53

Out: 39.870+/-9.709 χ^2/NDF : 80.8/58

All: 36.776+/-6.962 χ^2/NDF : 140.8/112

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 64.311+/-0.012 χ^2/NDF : 5020994.5/30

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

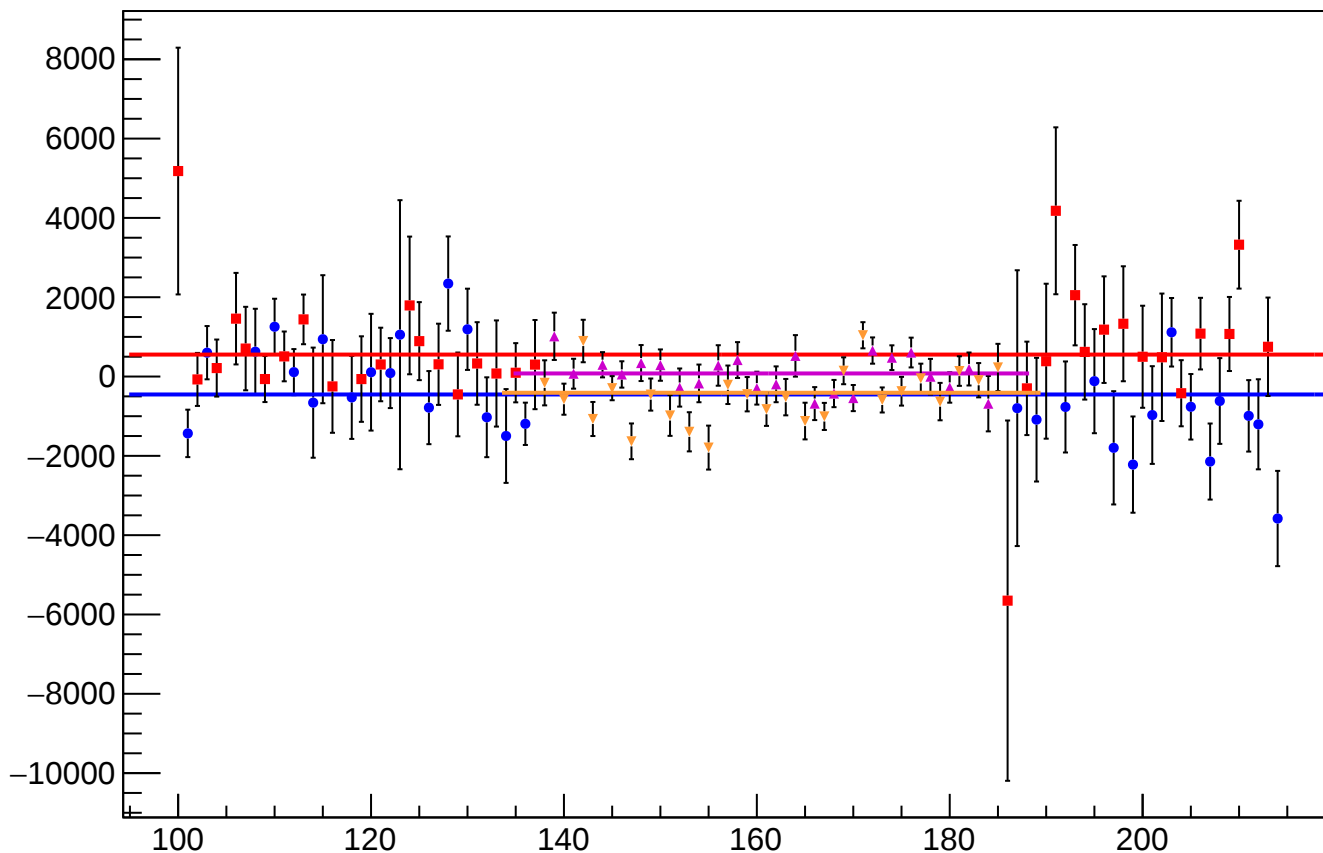
Right: 63.806+/-0.009 χ^2/NDF : 11287490.7/64

In: 55.255+/-0.007 χ^2/NDF : 6320233.8/53

Out: 54.436+/-0.007 χ^2/NDF : 7530327.4/58

All: 54.834+/-0.005 χ^2/NDF : 13857481.9/112

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -452.320 ± 172.413 $\chi^2/\text{NDF}: 43.3/30$

Left Out: -409.164 ± 82.348 $\chi^2/\text{NDF}: 61.7/24$

Right Out: 553.804 ± 171.777 $\chi^2/\text{NDF}: 25.7/33$

Left In: 77.872 ± 84.072 $\chi^2/\text{NDF}: 24.8/22$

Left: -170.691 ± 58.829 $\chi^2/\text{NDF}: 103.6/47$

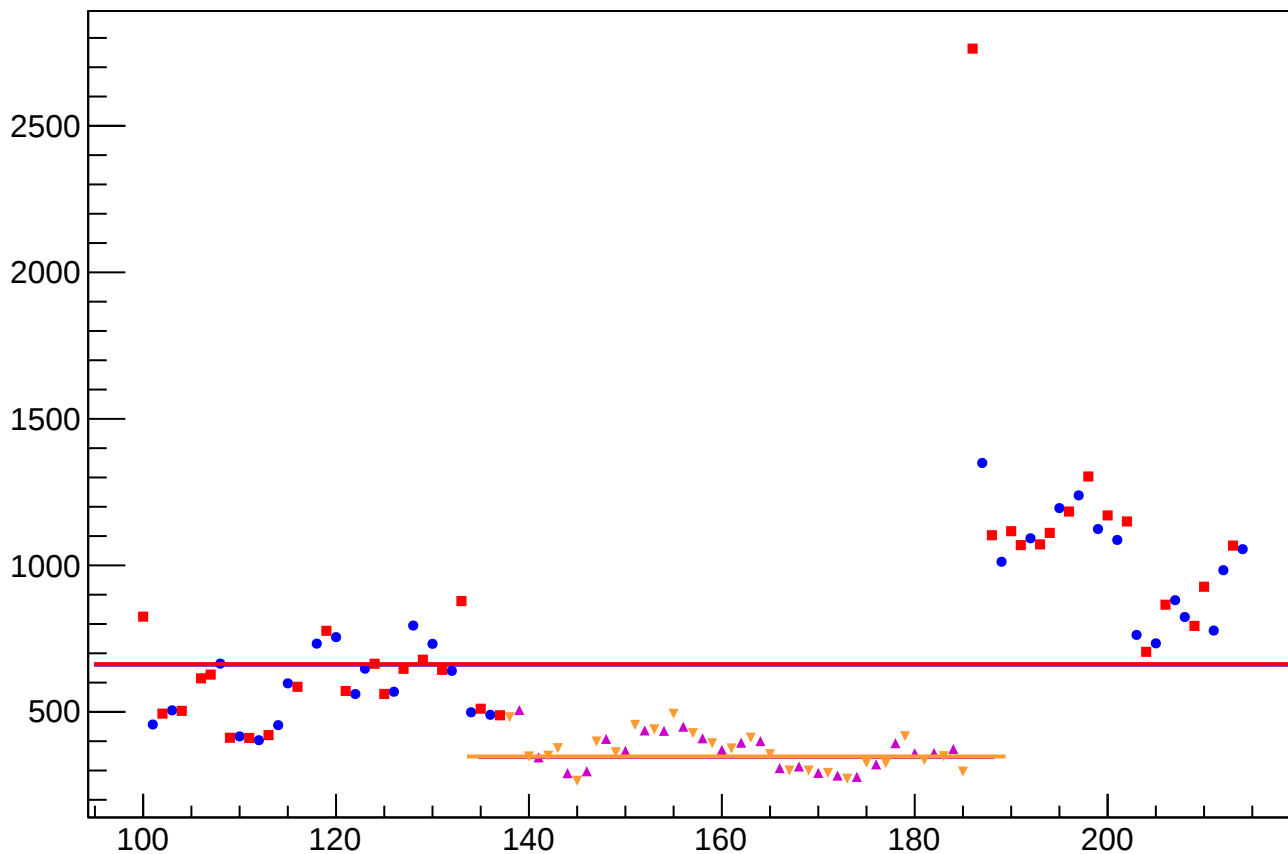
Right: 52.601 ± 121.689 $\chi^2/\text{NDF}: 86.2/64$

In: -23.978 ± 75.567 $\chi^2/\text{NDF}: 75.8/53$

Out: -229.214 ± 74.257 $\chi^2/\text{NDF}: 113.0/58$

All: -128.391 ± 52.965 $\chi^2/\text{NDF}: 192.5/112$

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 661.208+/-0.122 χ^2/NDF : 3618479.8/30

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

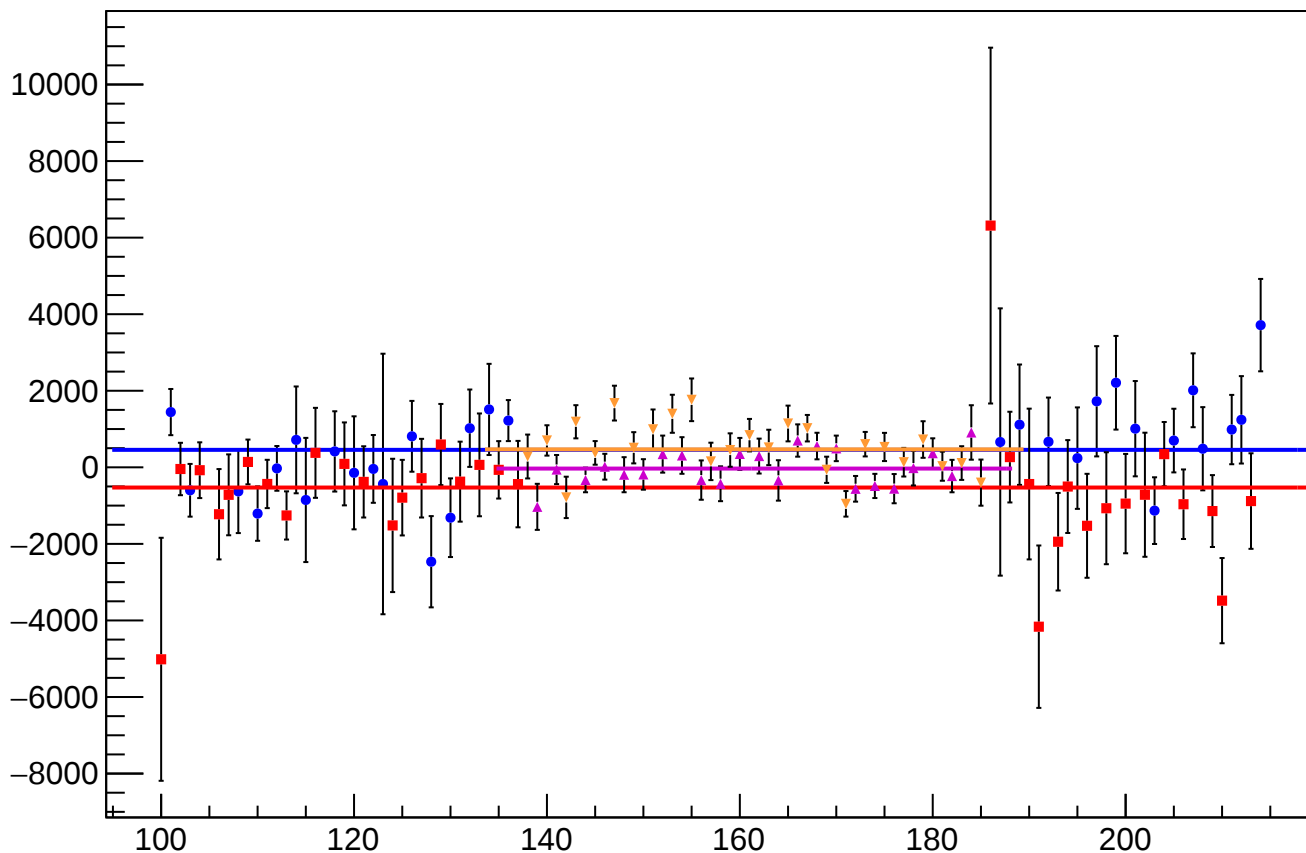
Right: 662.077+/-0.086 χ^2/NDF : 8139753.7/64

In: 406.514+/-0.053 χ^2/NDF : 9921522.5/53

Out: 406.751+/-0.053 χ^2/NDF : 11036185.0/58

All: 406.635+/-0.037 χ^2/NDF : 20957717.5/111

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 456.408 $\pm$ 173.611 χ^2 /NDF: 43.1/30

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF: 57.5/24

Right Out: -528.061 $\pm$ 173.067 χ^2 /NDF: 25.5/33

Left In: -32.801 $\pm$ 85.064 χ^2 /NDF: 25.7/22

Left: 223.299 $\pm$ 59.514 χ^2 /NDF: 100.9/47

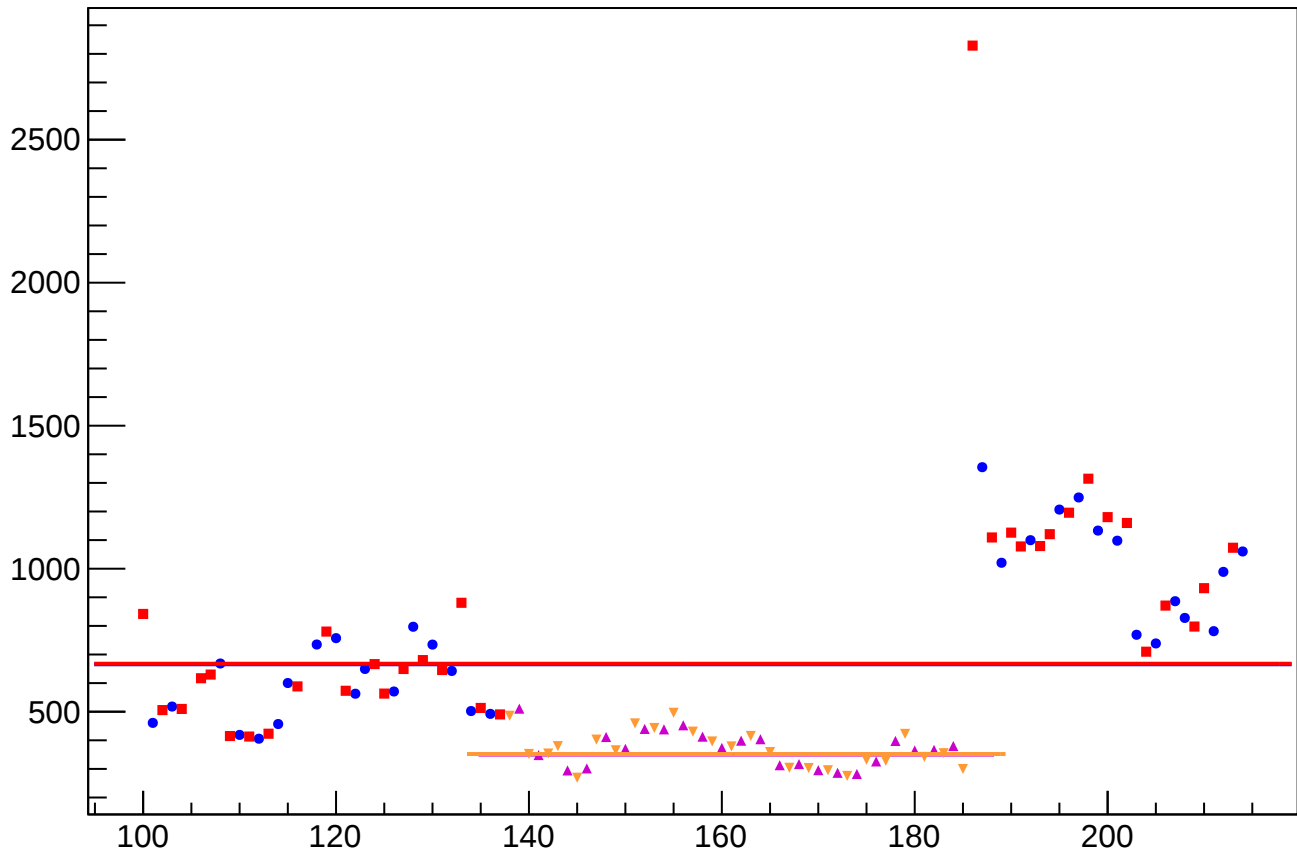
Right: -37.371 $\pm$ 122.568 χ^2 /NDF: 84.7/64

In: 61.906 $\pm$ 76.387 χ^2 /NDF: 75.2/53

Out: 281.367 $\pm$ 75.055 χ^2 /NDF: 110.0/58

All: 173.567 $\pm$ 53.537 χ^2 /NDF: 189.3/112

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 665.908 $\pm$ 0.123 χ^2 /NDF: 3609739.0/30

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

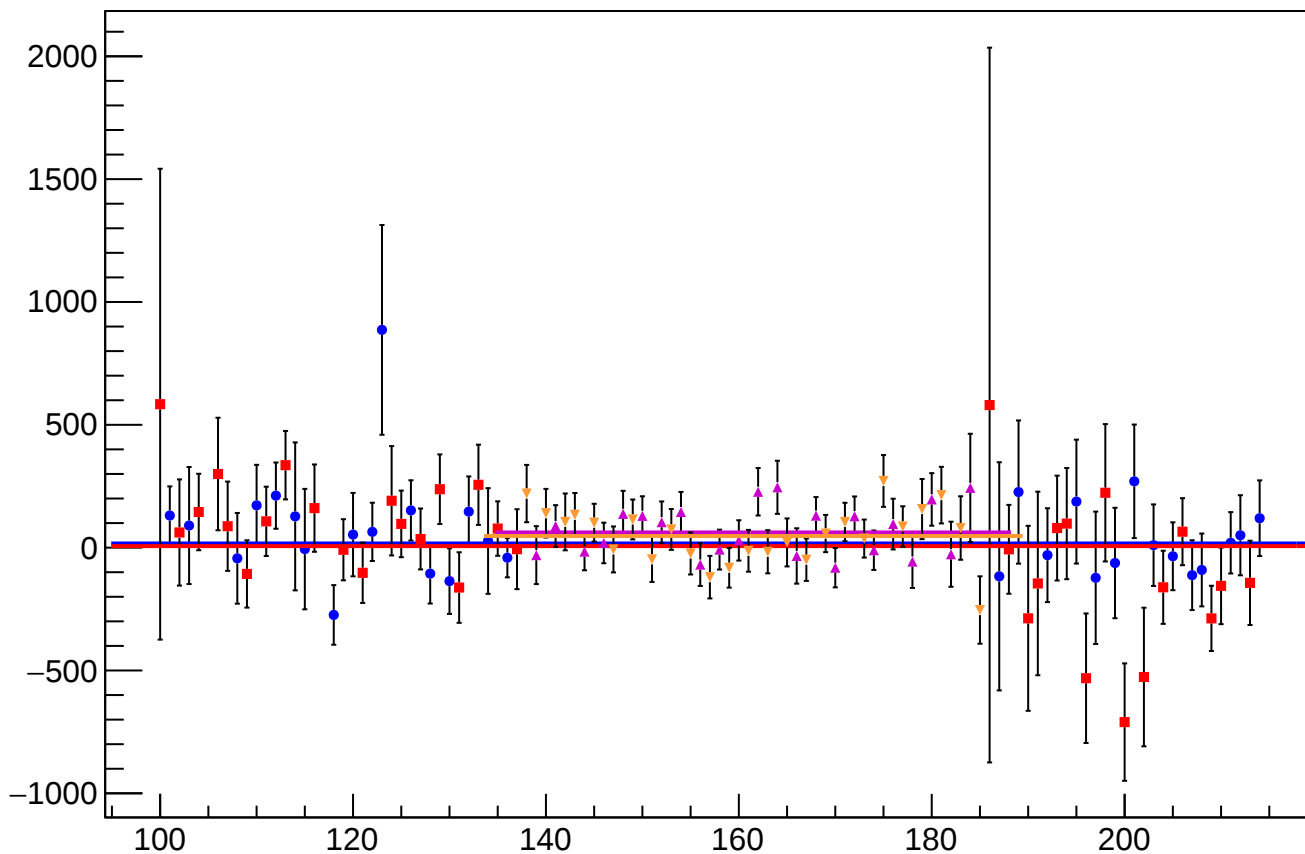
Right: 666.819 $\pm$ 0.087 χ^2 /NDF: 8129025.4/64

In: 411.287 $\pm$ 0.054 χ^2 /NDF: 9822857.6/53

Out: 411.392 $\pm$ 0.053 χ^2 /NDF: 10940083.9/58

All: 411.340 $\pm$ 0.038 χ^2 /NDF: 20762943.4/111

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 16.985 ± 28.027 χ^2/NDF : 23.9/30

Left Out: 47.426 ± 18.253 χ^2/NDF : 29.4/24

Right Out: 6.265 ± 28.861 χ^2/NDF : 46.1/33

Left In: 61.830 ± 18.958 χ^2/NDF : 24.0/22

Left: 54.355 ± 13.149 χ^2/NDF : 53.7/47

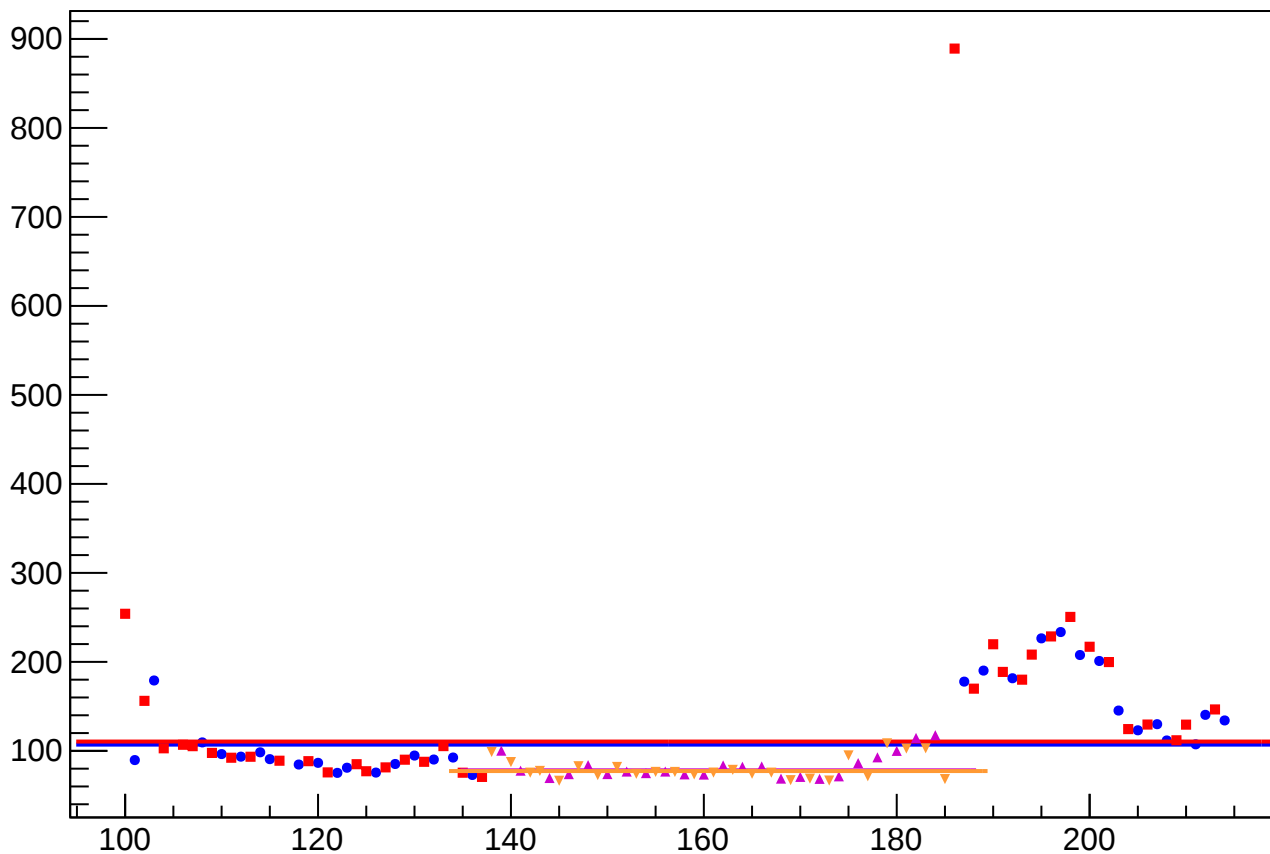
Right: 11.782 ± 20.107 χ^2/NDF : 70.1/64

In: 47.753 ± 15.703 χ^2/NDF : 49.6/53

Out: 35.666 ± 15.427 χ^2/NDF : 77.0/58

All: 41.602 ± 11.005 χ^2/NDF : 126.9/112

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 107.026 $\pm$ 0.020 χ^2 /NDF: 3595801.3/30

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

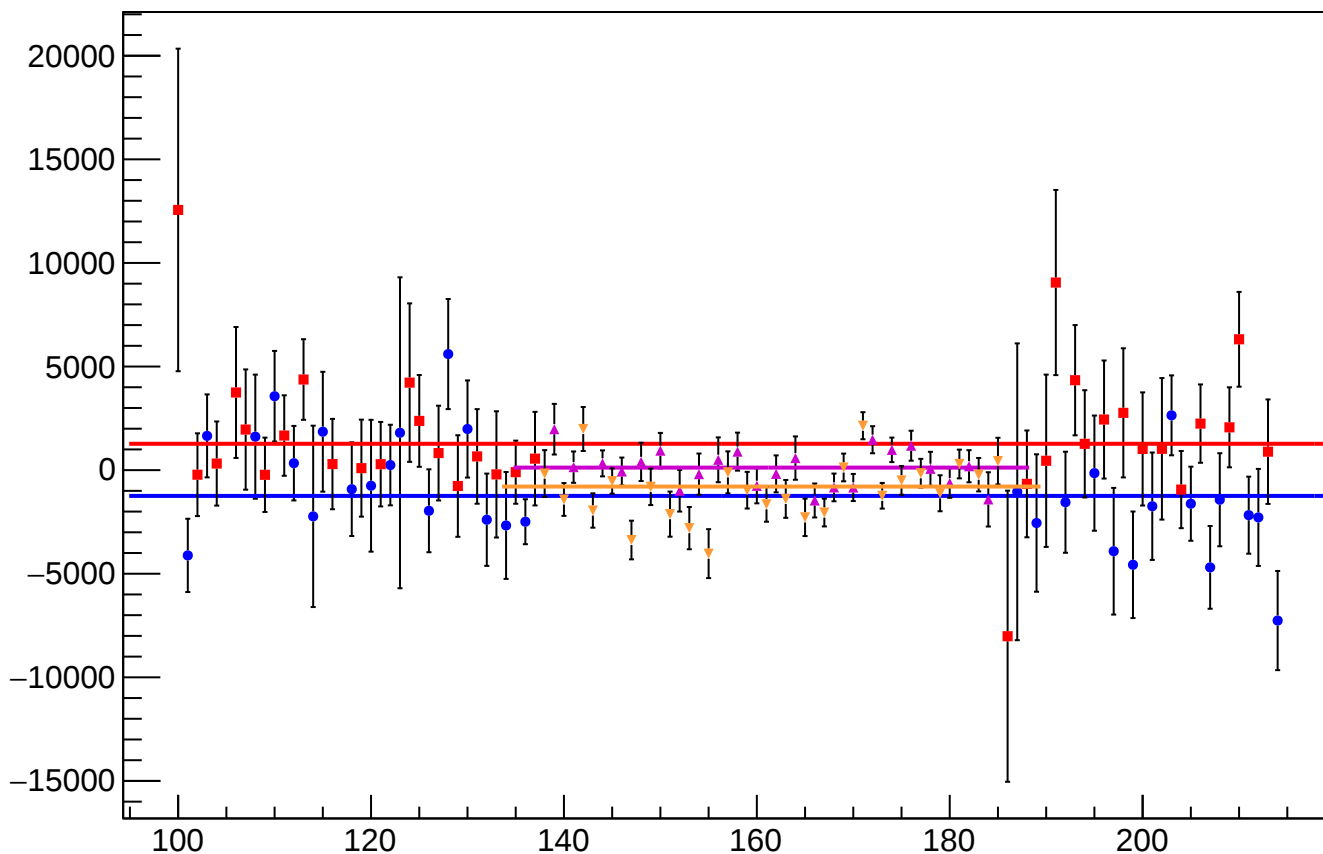
Right: 108.702 $\pm$ 0.014 χ^2 /NDF: 8061765.0/64

In: 87.207 $\pm$ 0.011 χ^2 /NDF:5635634.1/53

Out: 86.791 $\pm$ 0.011 χ^2 /NDF:6973051.1/58

All: 86.995 $\pm$ 0.008 χ^2 /NDF: 12609398.4/112

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1243.858 $\pm$ 401.091 χ^2 /NDF: 40.5/30

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

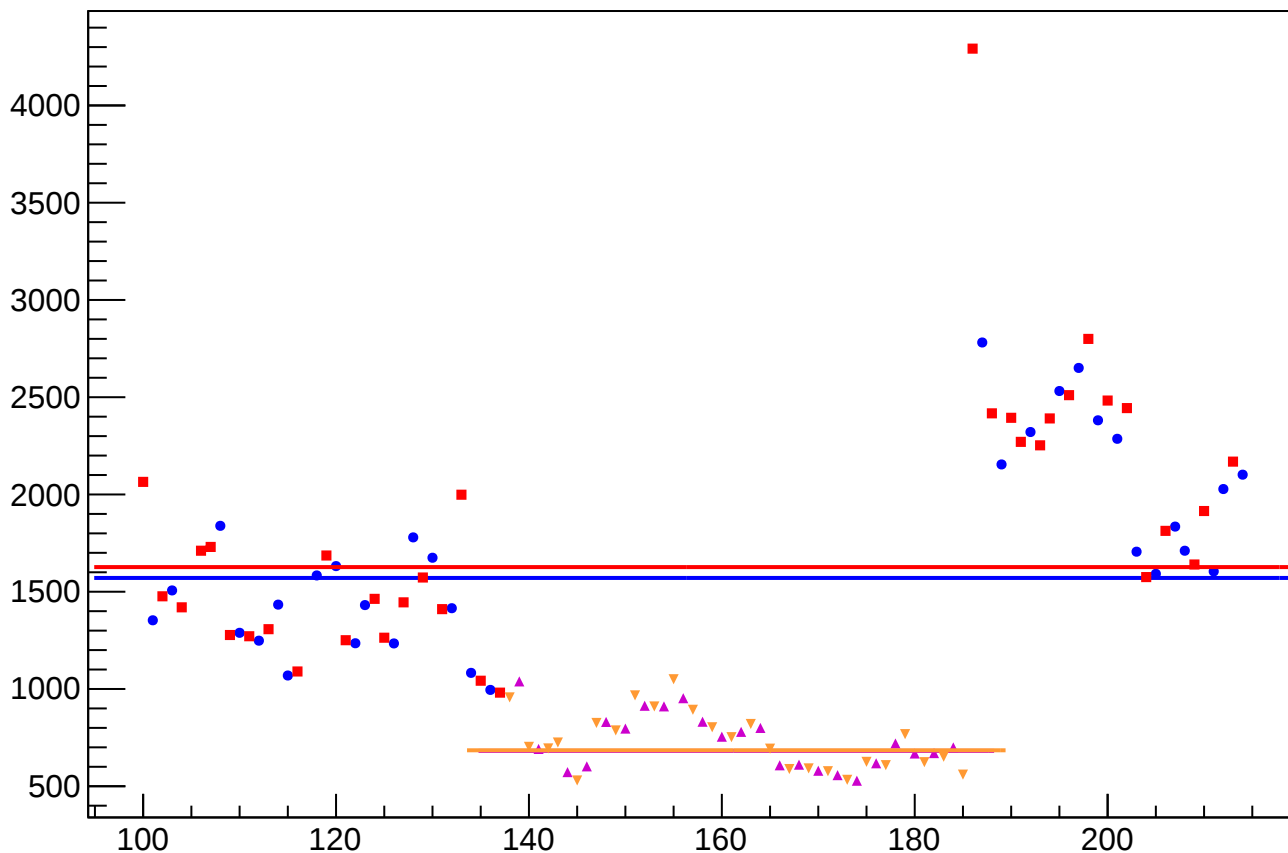
Right: -12.552 $\pm$ 286.589 χ^2 /NDF: 83.9/64

In: -77.972 $\pm$ 153.535 χ^2 /NDF:76.3/53

Out: -511.588 $\pm$ 151.177 χ^2 /NDF:112.7/58

All: -298.136 $\pm$ 107.722 χ^2 /NDF: 193.1/112

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1570.864 $\pm$ 0.284 χ^2 /NDF: 2363166.3/30

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF: 1280146.2/24

Right Out: 1626.657 $\pm$ 0.290 χ^2 /NDF: 2809215.3/33

Left In: 681.712 $\pm$ 0.118 χ^2 /NDF: 1119637.0/22

Left: 683.282 $\pm$ 0.082 χ^2 /NDF: 2400132.5/47

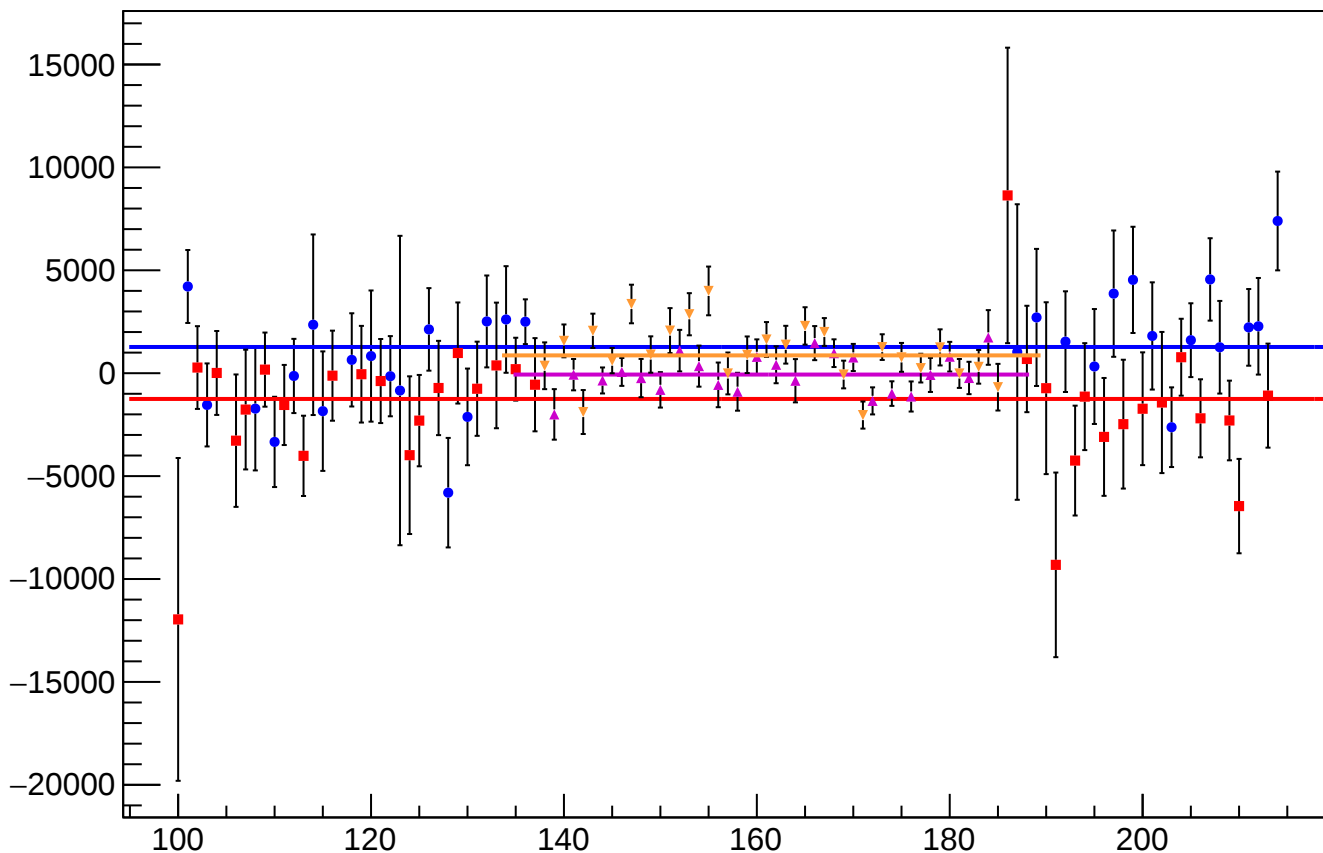
Right: 1598.172 $\pm$ 0.203 χ^2 /NDF: 5191323.1/64

In: 812.001 $\pm$ 0.109 χ^2 /NDF: 11871309.6/53

Out: 813.063 $\pm$ 0.107 χ^2 /NDF: 13222516.7/58

All: 812.540 $\pm$ 0.076 χ^2 /NDF: 25093875.0/111

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1274.137 $\pm$ 402.291 χ^2 /NDF: 40.2/30

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

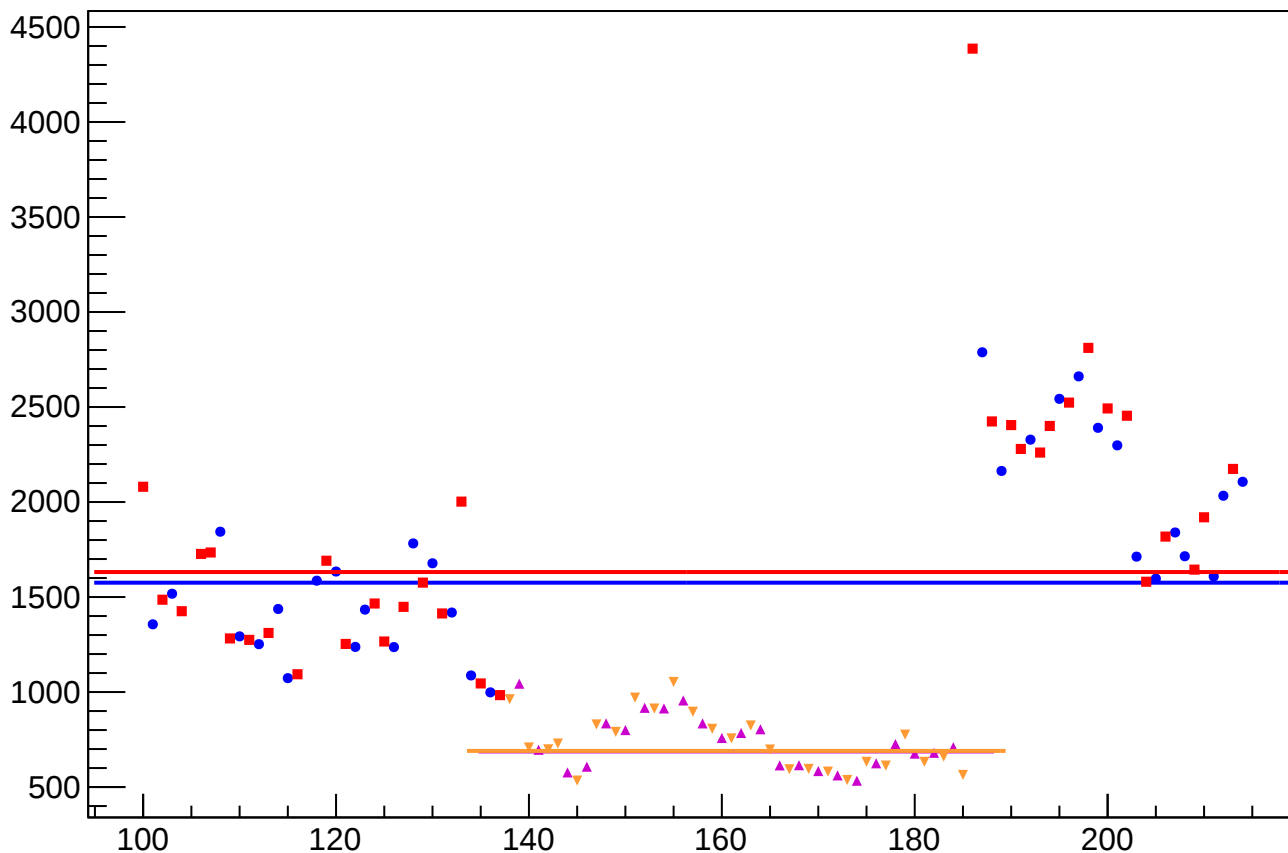
Right: 38.719 $\pm$ 287.499 χ^2 /NDF: 83.5/64

In: 132.034 $\pm$ 154.620 χ^2 /NDF: 76.1/53

Out: 575.267 $\pm$ 152.230 χ^2 /NDF: 109.7/58

All: 357.101 $\pm$ 108.478 χ^2 /NDF: 190.0/112

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1575.486 $\pm$ 0.284 χ^2 /NDF: 2366553.0/30

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

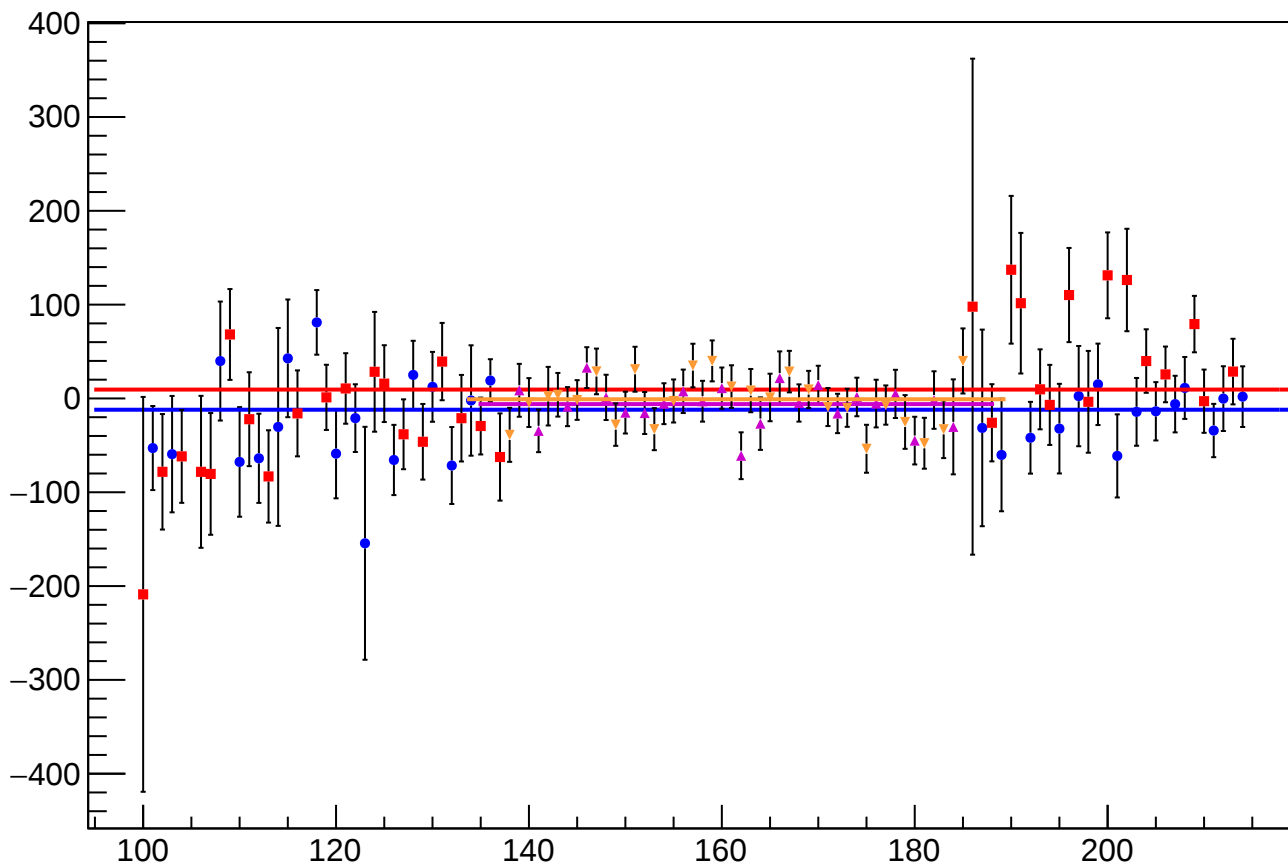
Right: 1602.928 $\pm$ 0.203 χ^2 /NDF: 5206824.1/64

In: 818.435 $\pm$ 0.109 χ^2 /NDF: 11776608.5/53

Out: 819.304 $\pm$ 0.108 χ^2 /NDF: 13132143.6/58

All: 818.876 $\pm$ 0.077 χ^2 /NDF: 24908784.2/111

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -12.025 ± 7.267 $\chi^2/\text{NDF}: 26.8/30$

Left Out: -0.861 ± 4.760 $\chi^2/\text{NDF}: 27.9/24$

Right Out: 9.450 ± 7.554 $\chi^2/\text{NDF}: 50.5/33$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

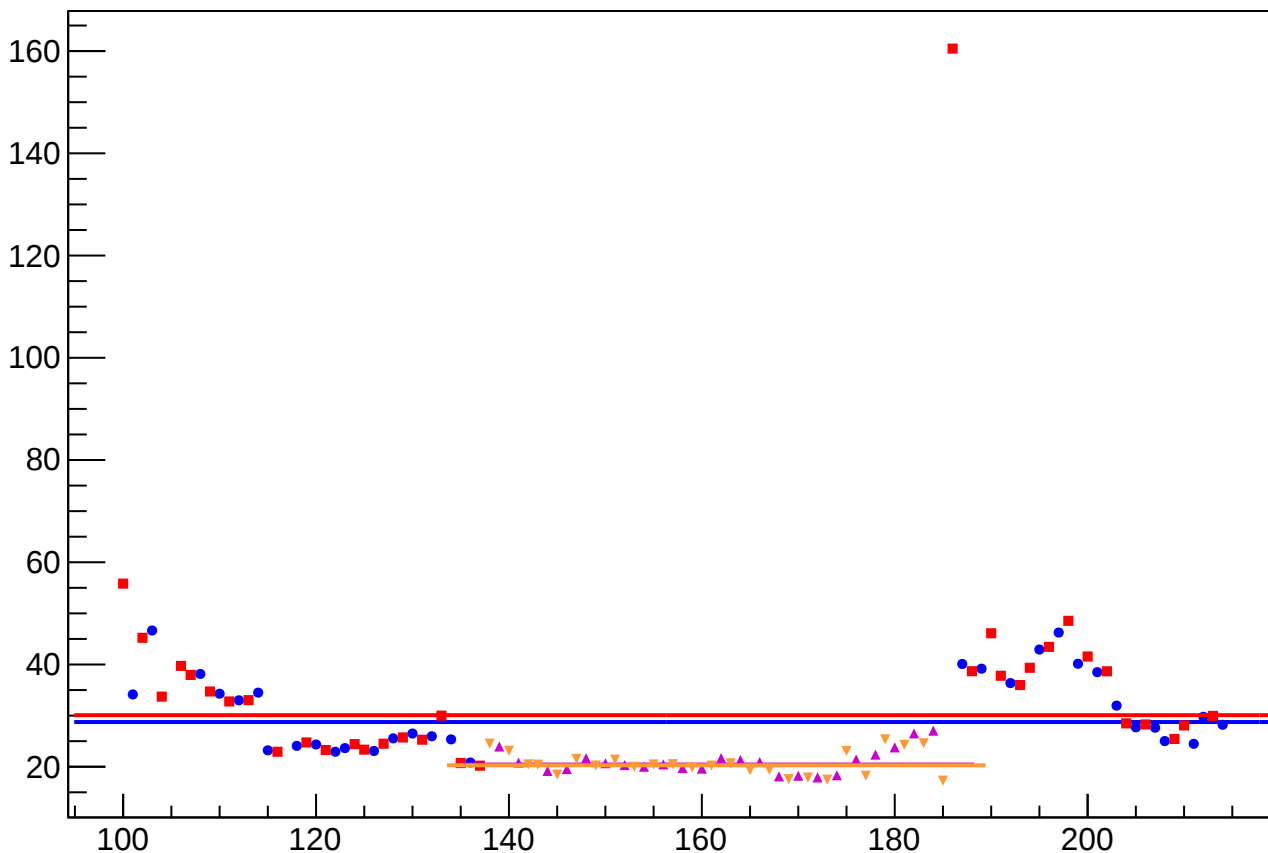
Right: -1.703 ± 5.237 $\chi^2/\text{NDF}: 81.4/64$

In: -7.925 ± 4.077 $\chi^2/\text{NDF}: 44.2/53$

Out: 2.070 ± 4.027 $\chi^2/\text{NDF}: 79.7/58$

All: -2.866 ± 2.865 $\chi^2/\text{NDF}: 126.9/112$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.743+/-0.005 χ^2/NDF : 1612653.0/30

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 30.083+/-0.005 χ^2/NDF : 2285158.0/33

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

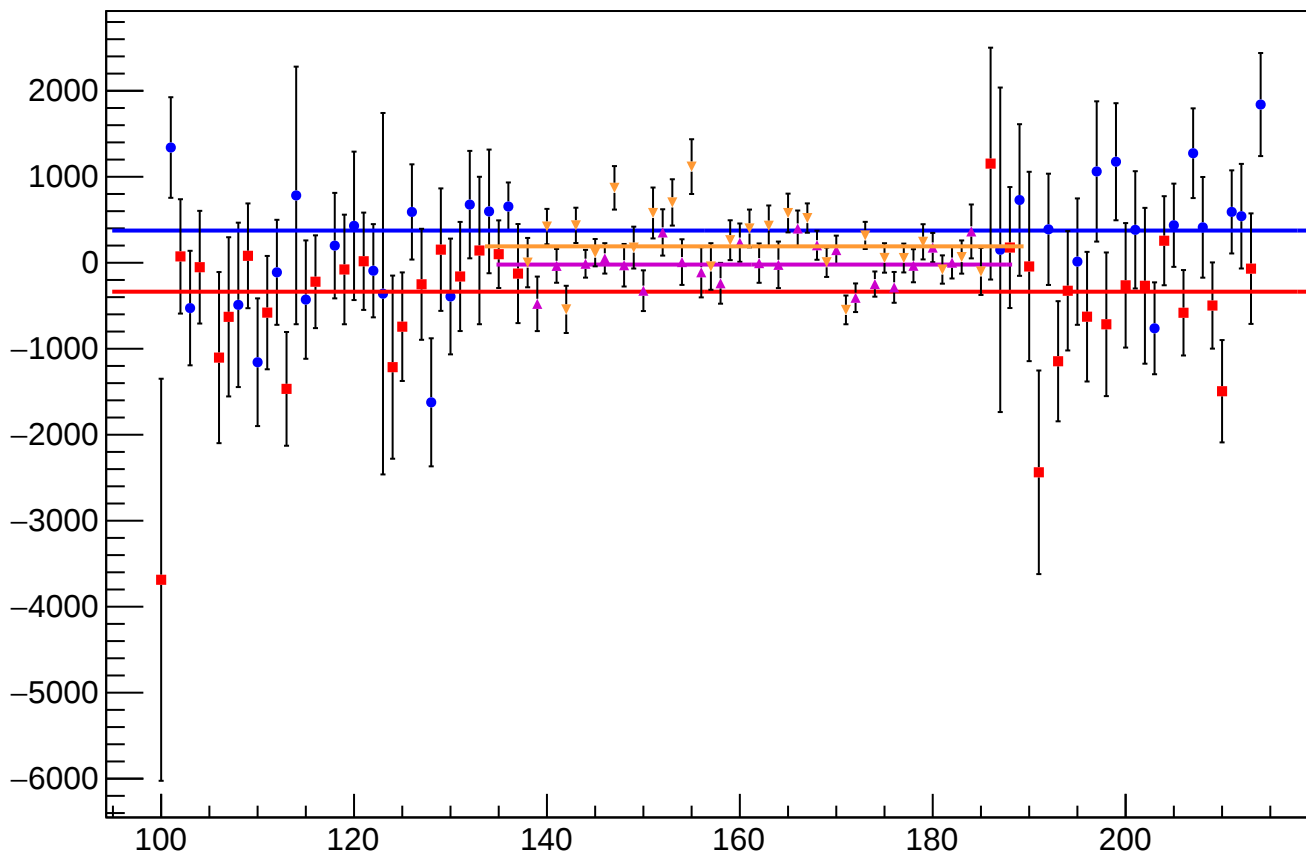
Right: 29.387+/-0.004 χ^2/NDF : 3930476.2/64

In: 23.042+/-0.003 χ^2/NDF : 3732272.3/53

Out: 23.066+/-0.003 χ^2/NDF : 5103336.5/58

All: 23.054+/-0.002 χ^2/NDF : 8835642.0/112

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 374.570 ± 110.921 $\chi^2/\text{NDF}: 38.9/30$

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 $\chi^2/\text{NDF}: 108.4/47$

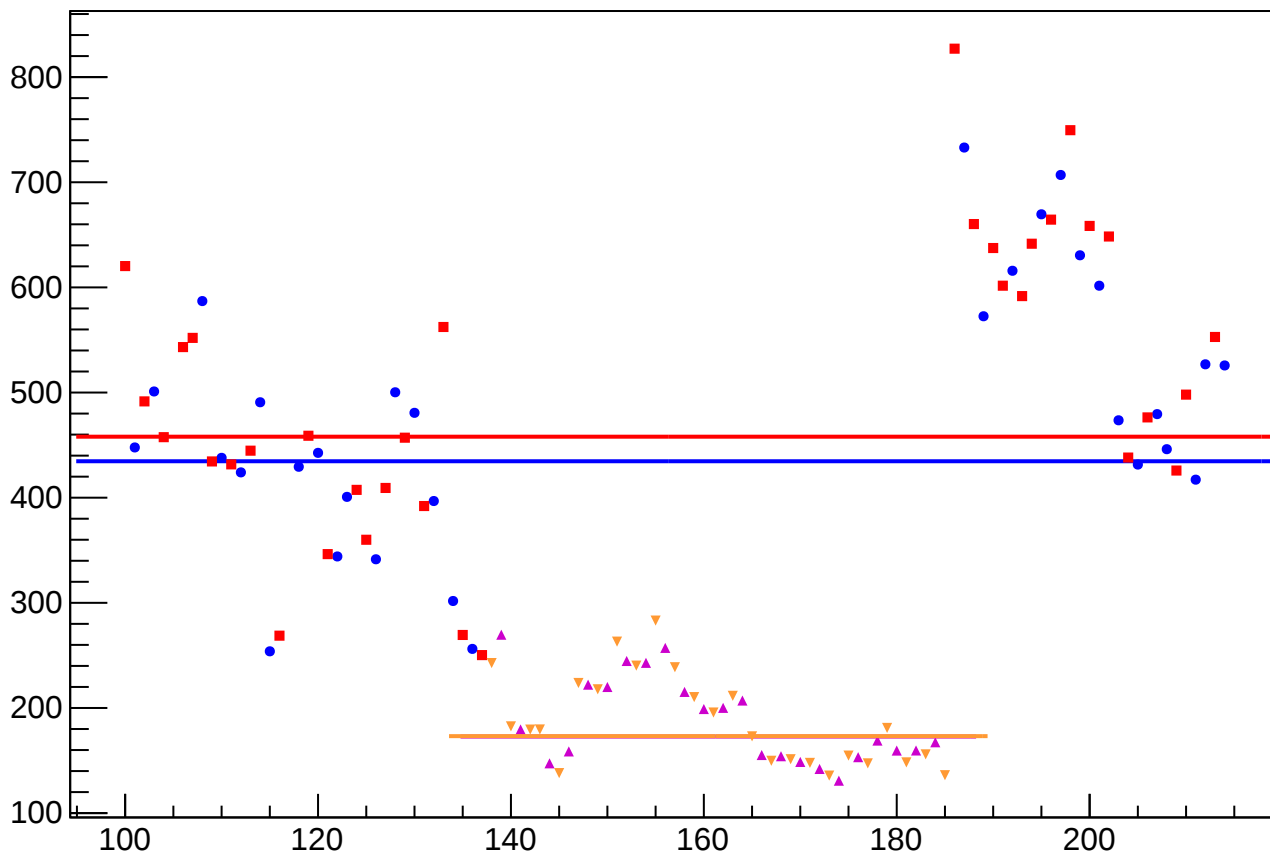
Right: 31.240 ± 79.767 $\chi^2/\text{NDF}: 81.8/64$

In: 29.206 ± 39.516 $\chi^2/\text{NDF}: 77.7/53$

Out: 130.395 ± 38.873 $\chi^2/\text{NDF}: 109.6/58$

All: 80.630 ± 27.712 $\chi^2/\text{NDF}: 190.7/112$

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 434.655 $\pm$ 0.078 χ^2 /NDF: 2332199.3/30

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 458.012 $\pm$ 0.081 χ^2 /NDF: 2528341.3/33

Left In: 172.828 $\pm$ 0.030 χ^2 /NDF:1372131.7/22

Left: 173.023 $\pm$ 0.021 χ^2 /NDF: 2933465.9/47

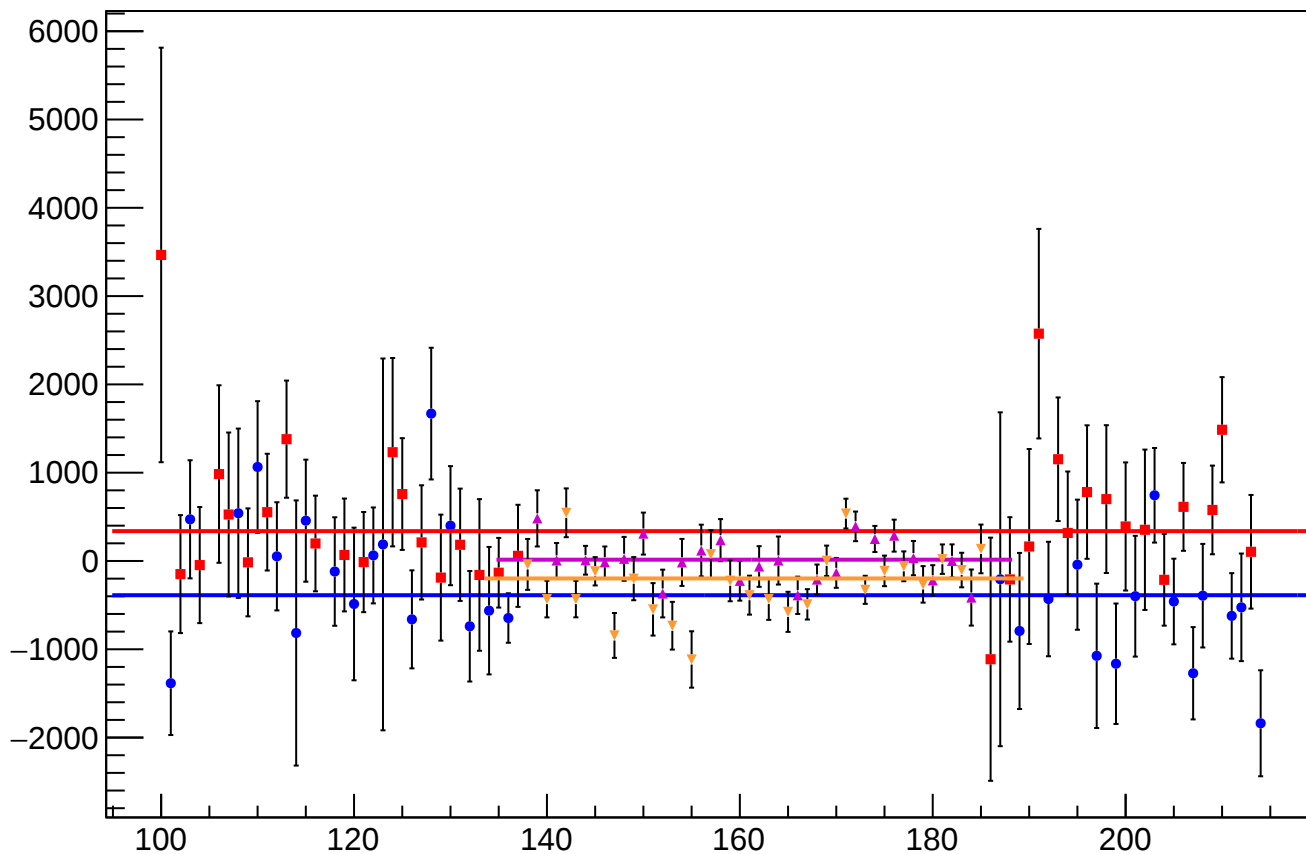
Right: 445.933 $\pm$ 0.056 χ^2 /NDF: 4903363.0/64

In: 206.058 $\pm$ 0.028 χ^2 /NDF:13433700.5/53

Out: 205.869 $\pm$ 0.027 χ^2 /NDF:14988461.4/58

All: 205.962 $\pm$ 0.020 χ^2 /NDF: 28422185.2/111

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -387.658 ± 111.200 $\chi^2/\text{NDF}: 38.7/30$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 338.023 ± 115.107 $\chi^2/\text{NDF}: 23.1/33$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

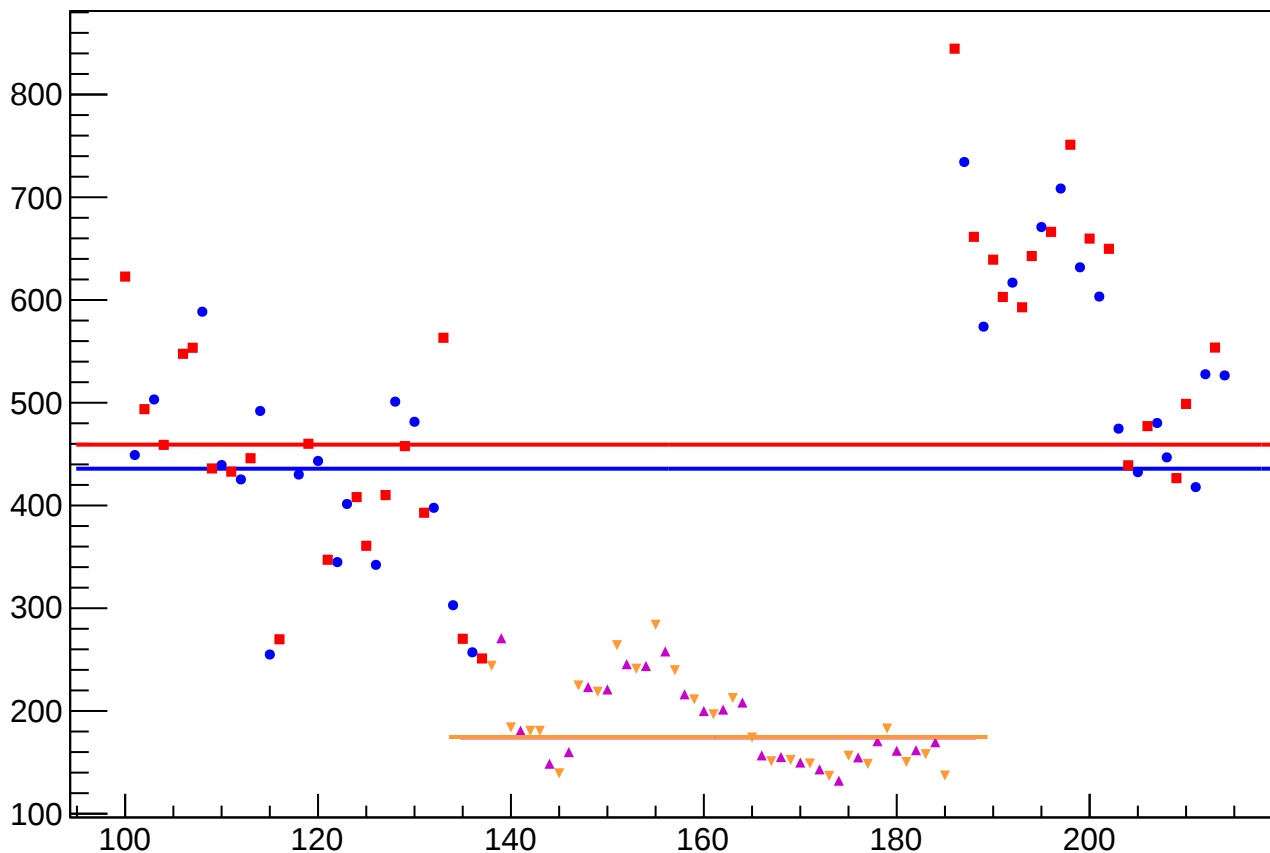
Right: -37.341 ± 79.976 $\chi^2/\text{NDF}: 82.3/64$

In: -36.928 ± 39.805 $\chi^2/\text{NDF}: 77.8/53$

Out: -135.904 ± 39.155 $\chi^2/\text{NDF}: 106.5/58$

All: -87.230 ± 27.914 $\chi^2/\text{NDF}: 187.5/112$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 435.807 $\pm$ 0.079 χ^2 /NDF: 2324742.5/30

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

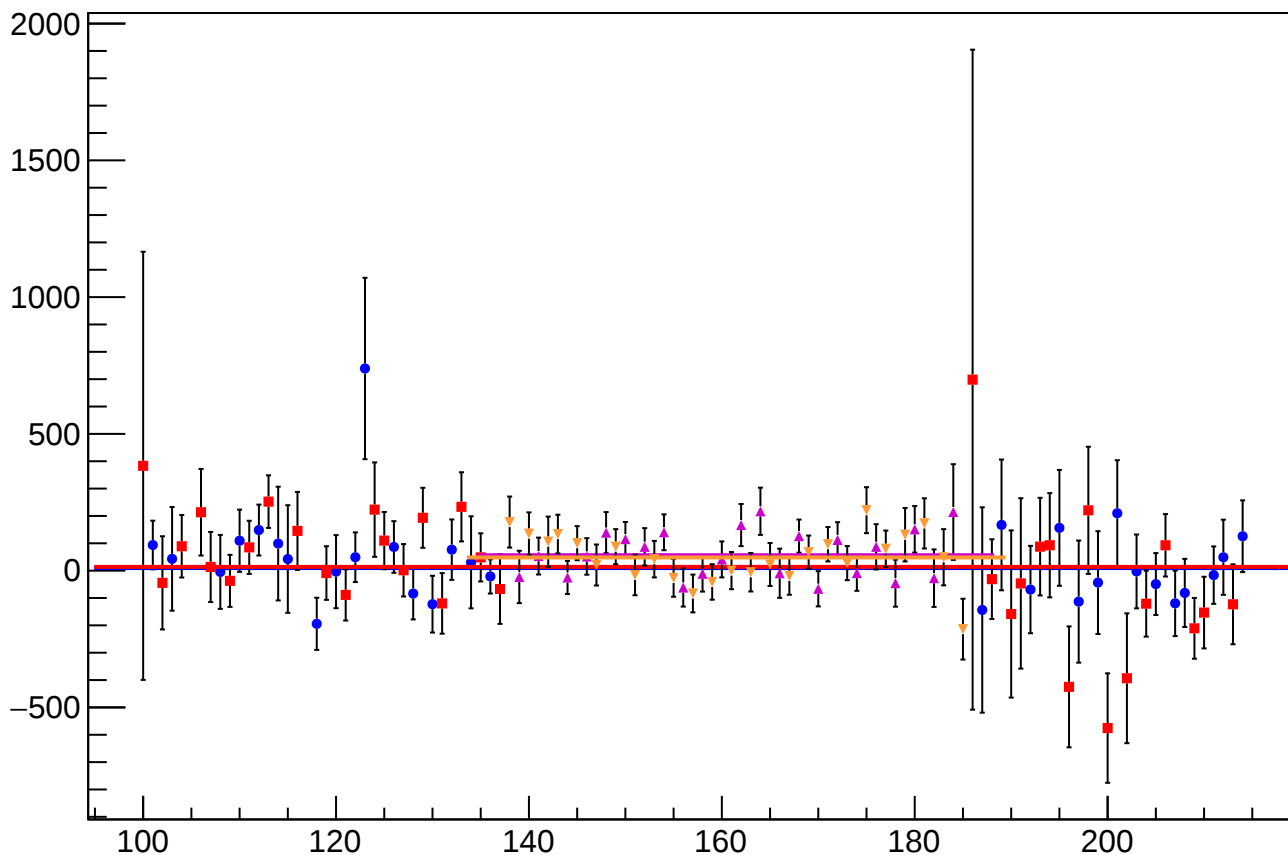
Right: 447.113 $\pm$ 0.057 χ^2 /NDF: 4898403.6/64

In: 207.797 $\pm$ 0.028 χ^2 /NDF: 13313865.1/53

Out: 207.577 $\pm$ 0.028 χ^2 /NDF: 14872949.1/58

All: 207.685 $\pm$ 0.020 χ^2 /NDF: 28186845.3/111

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 9.399 ± 21.994 χ^2/NDF : 23.3/30

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

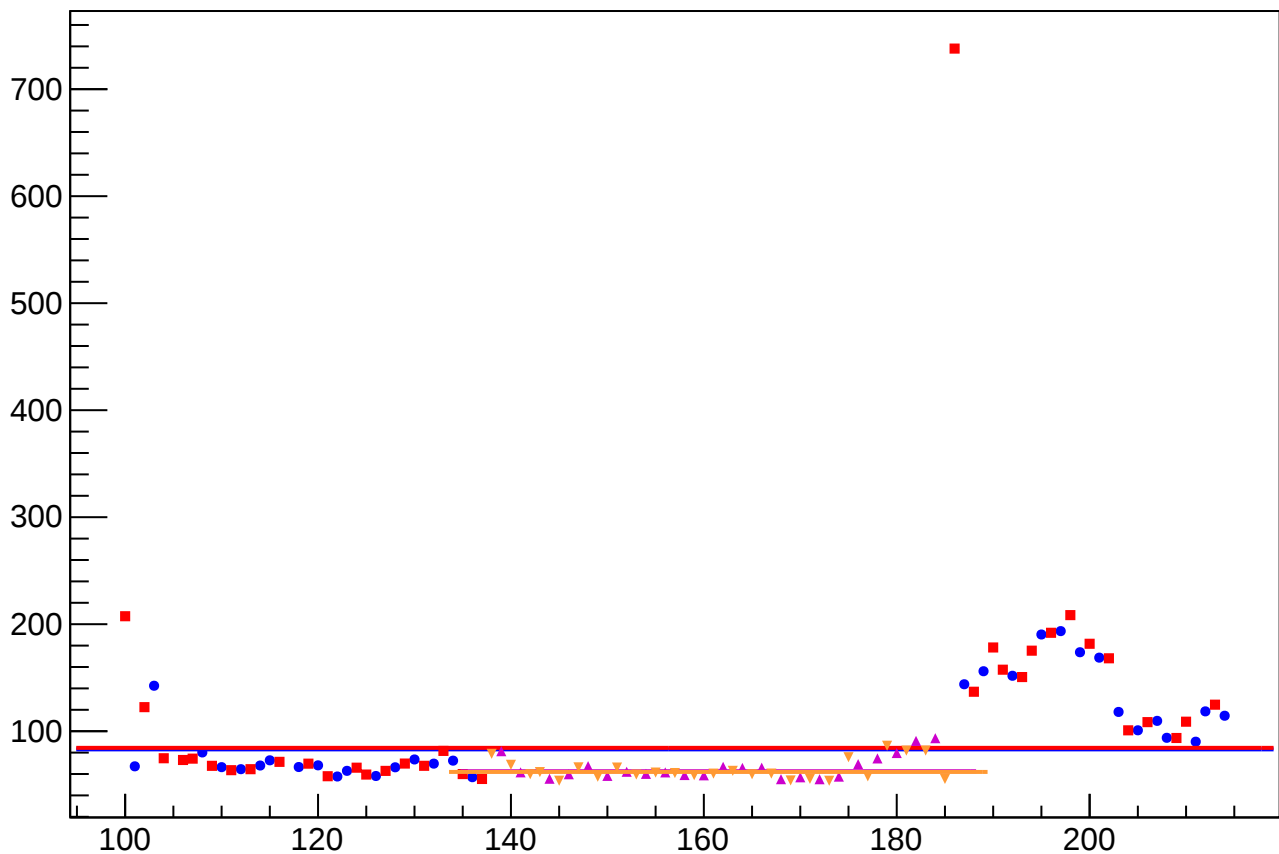
Right: 11.547 ± 15.683 χ^2/NDF : 70.6/64

In: 41.234 ± 12.494 χ^2/NDF : 53.9/53

Out: 37.922 ± 12.235 χ^2/NDF : 78.2/58

All: 39.543 ± 8.742 χ^2/NDF : 132.1/112

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 83.014+/-0.016 χ^2/NDF : 4275214.2/30

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

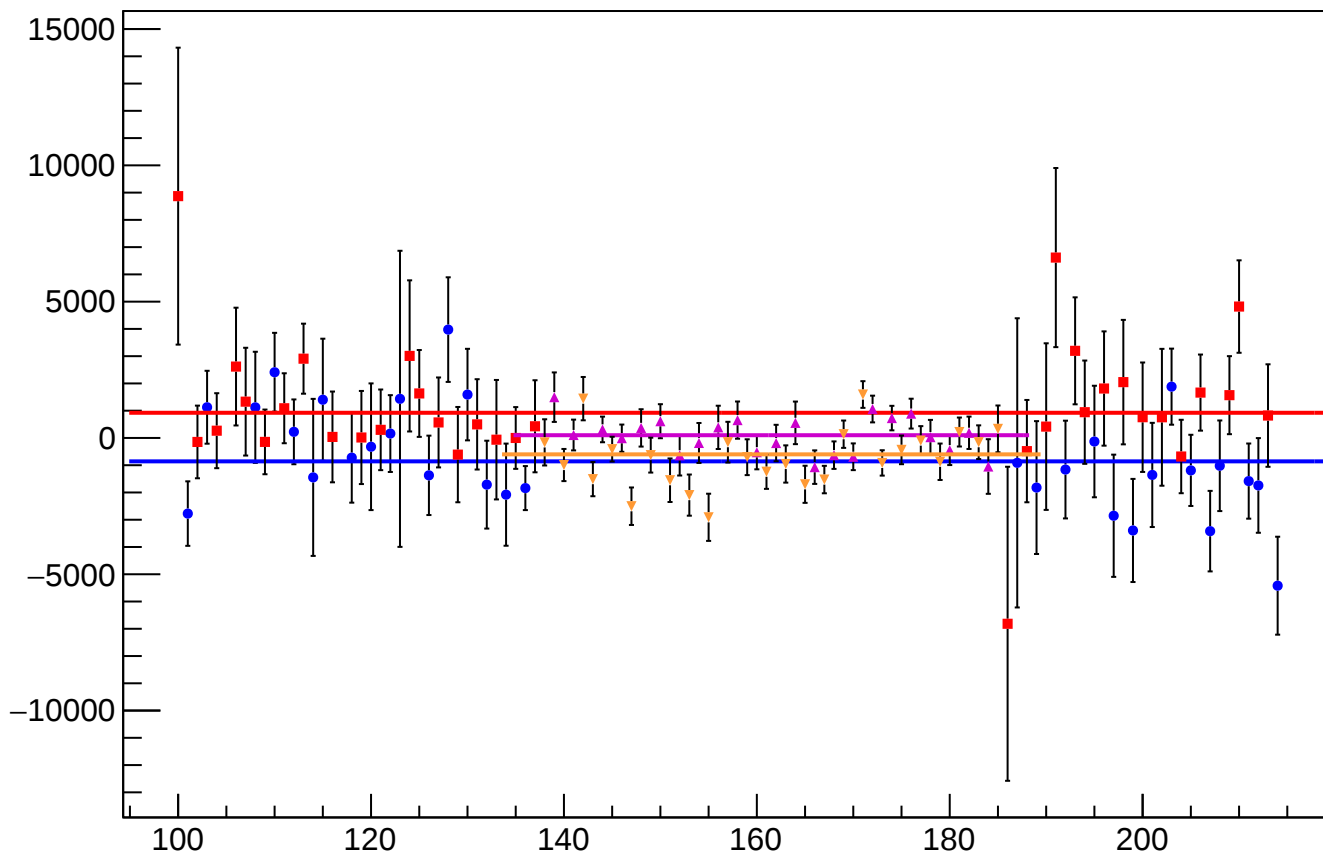
Right: 83.716+/-0.011 χ^2/NDF : 9507914.1/64

In: 69.193+/-0.009 χ^2/NDF : 6016889.4/53

Out: 68.677+/-0.009 χ^2/NDF : 7251058.8/58

All: 68.929+/-0.006 χ^2/NDF : 13269690.4/112

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -858.630+/-288.589 χ^2/NDF : 41.2/30

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

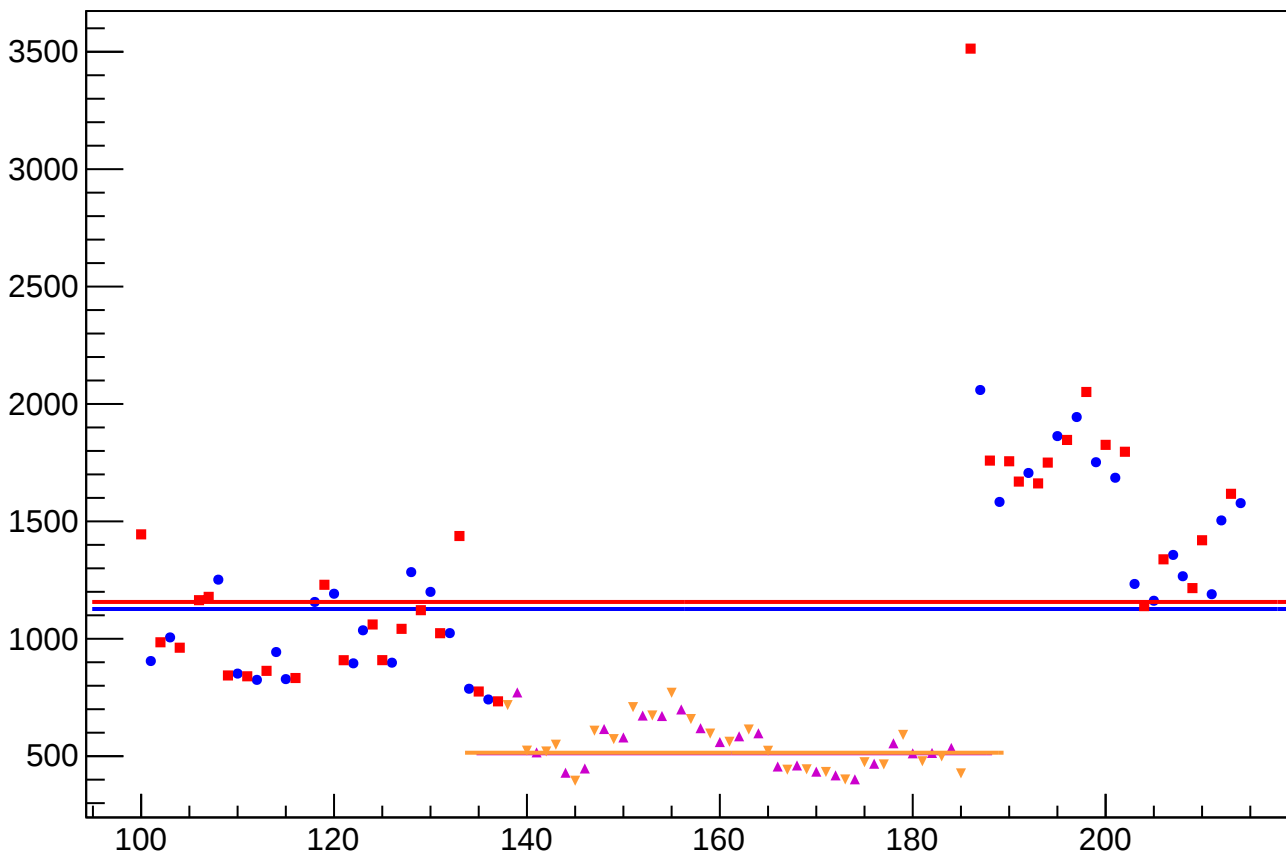
Right: 19.626+/-205.537 χ^2/NDF : 84.6/64

In: -50.416+/-114.490 χ^2/NDF : 76.0/53

Out: -375.494+/-112.709 χ^2/NDF : 113.1/58

All: -215.503+/-80.319 χ^2/NDF : 193.1/112

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1126.821+/-0.204 χ^2/NDF : 2547576.7/30

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

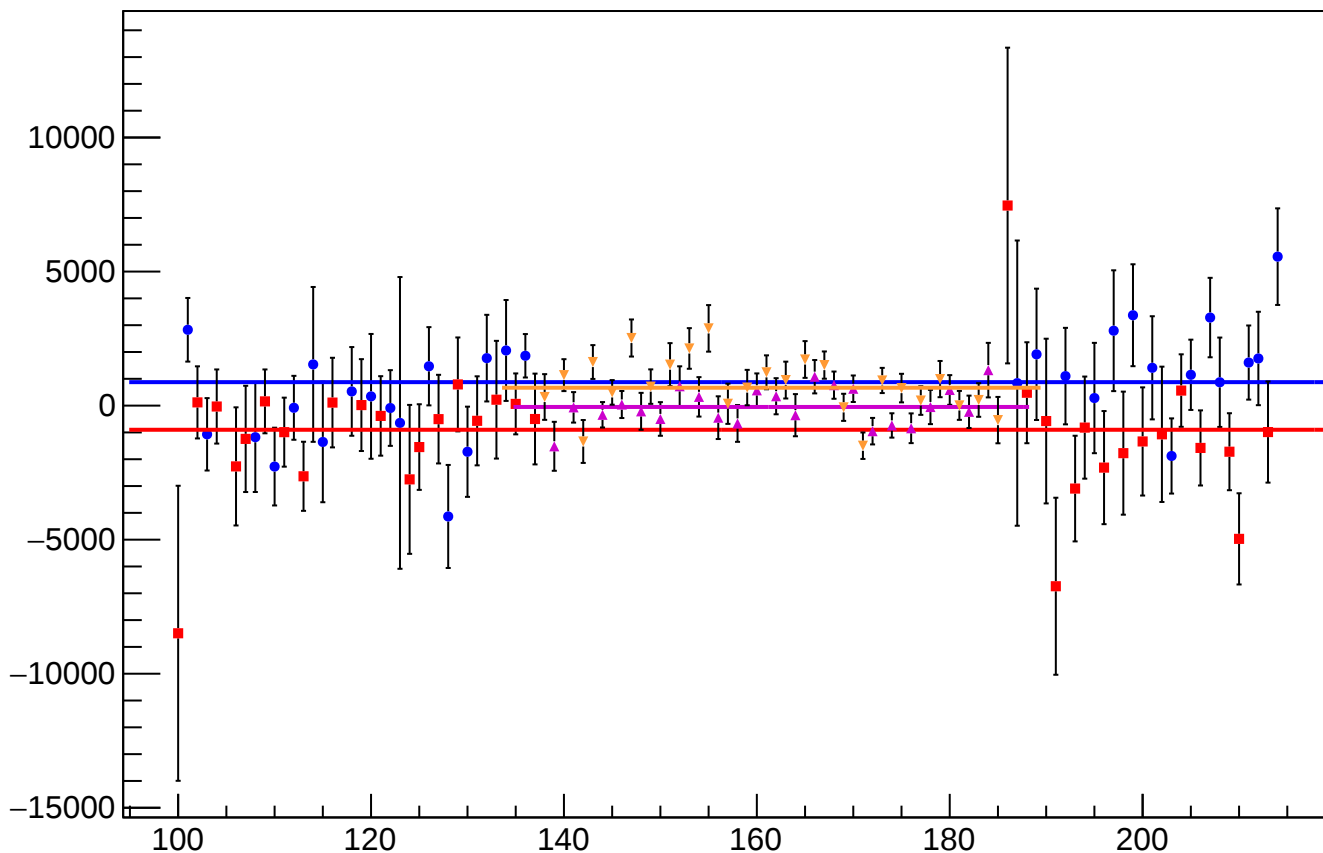
Right: 1141.614+/-0.145 χ^2/NDF : 5674234.7/64

In: 608.933+/-0.081 χ^2/NDF :11232747.1/53

Out: 609.897+/-0.080 χ^2/NDF :12503459.9/58

All: 609.423+/-0.057 χ^2/NDF : 23736279.0/111

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 875.456+/-289.650 χ^2/NDF : 41.0/30

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

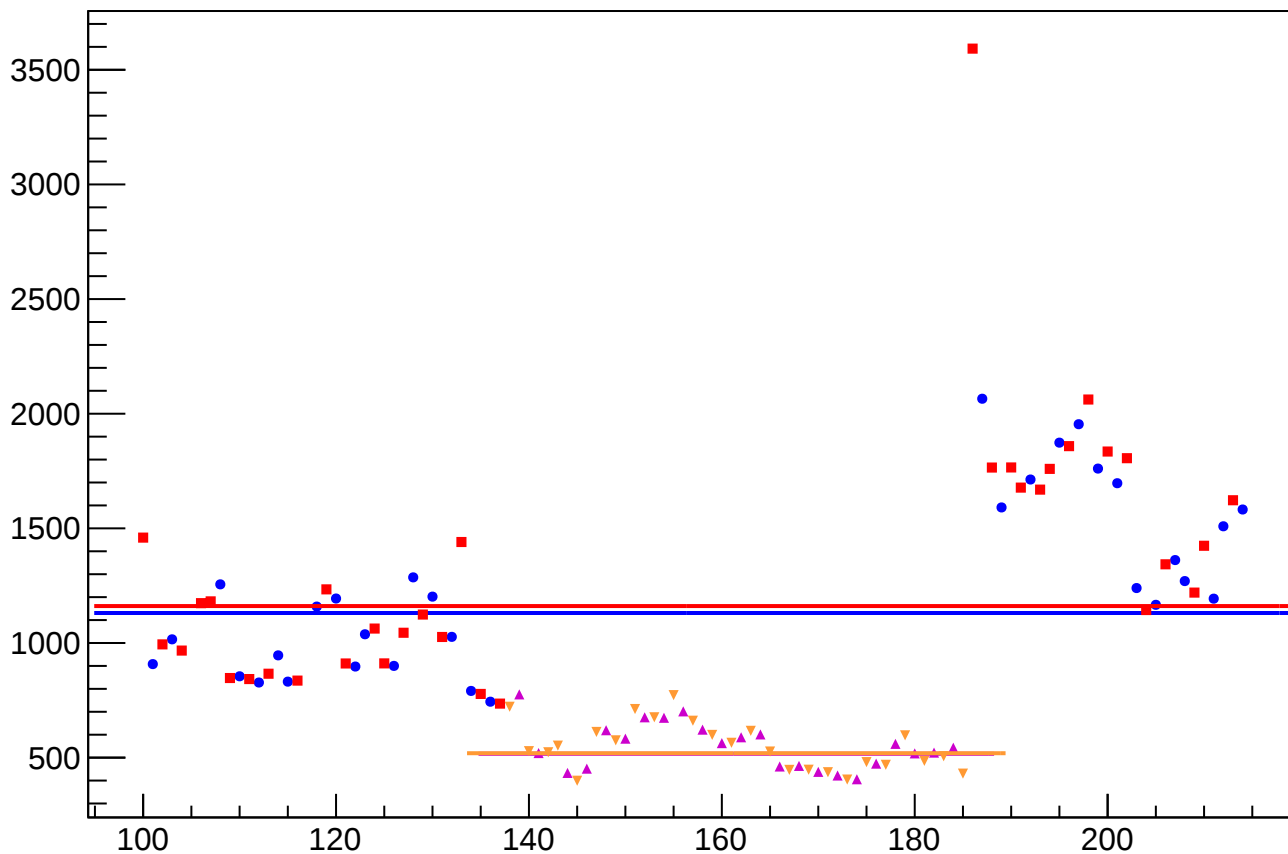
Right: 0.587+/-206.336 χ^2/NDF : 83.9/64

In: 96.810+/-115.391 χ^2/NDF : 75.7/53

Out: 433.531+/-113.584 χ^2/NDF : 110.1/58

All: 267.827+/-80.947 χ^2/NDF : 190.1/112

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1130.854+/-0.205 χ^2/NDF : 2553645.3/30

Left Out: 519.254+/-0.087 χ^2/NDF : 1172411.1/24

Right Out: 1161.090+/-0.208 χ^2/NDF : 3130001.7/33

Left In: 516.792+/-0.089 χ^2/NDF : 1021374.1/22

Left: 518.049+/-0.062 χ^2/NDF : 2194176.4/47

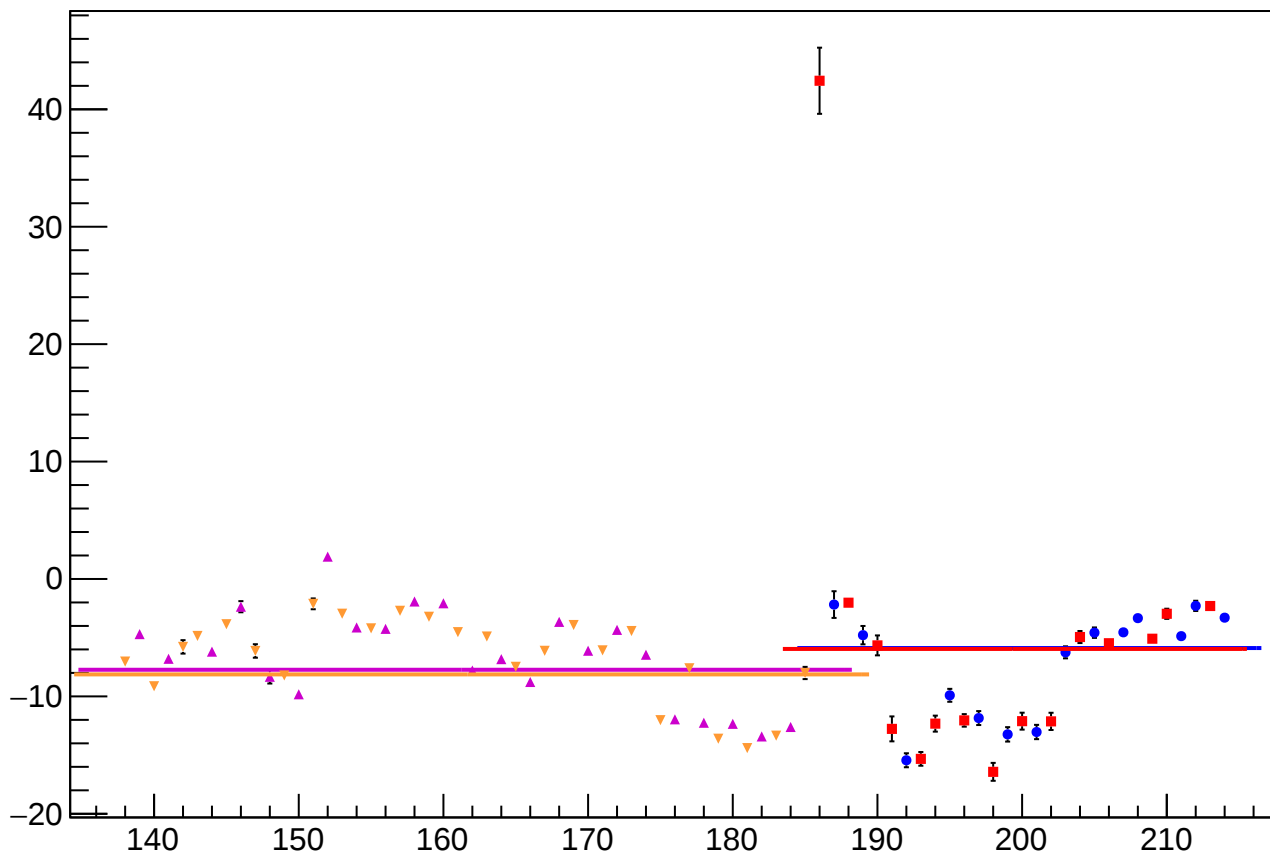
Right: 1145.747+/-0.146 χ^2/NDF : 5694381.6/64

In: 614.248+/-0.082 χ^2/NDF : 11137356.4/53

Out: 615.051+/-0.080 χ^2/NDF : 12411464.1/58

All: 614.656+/-0.057 χ^2/NDF : 23548869.7/111

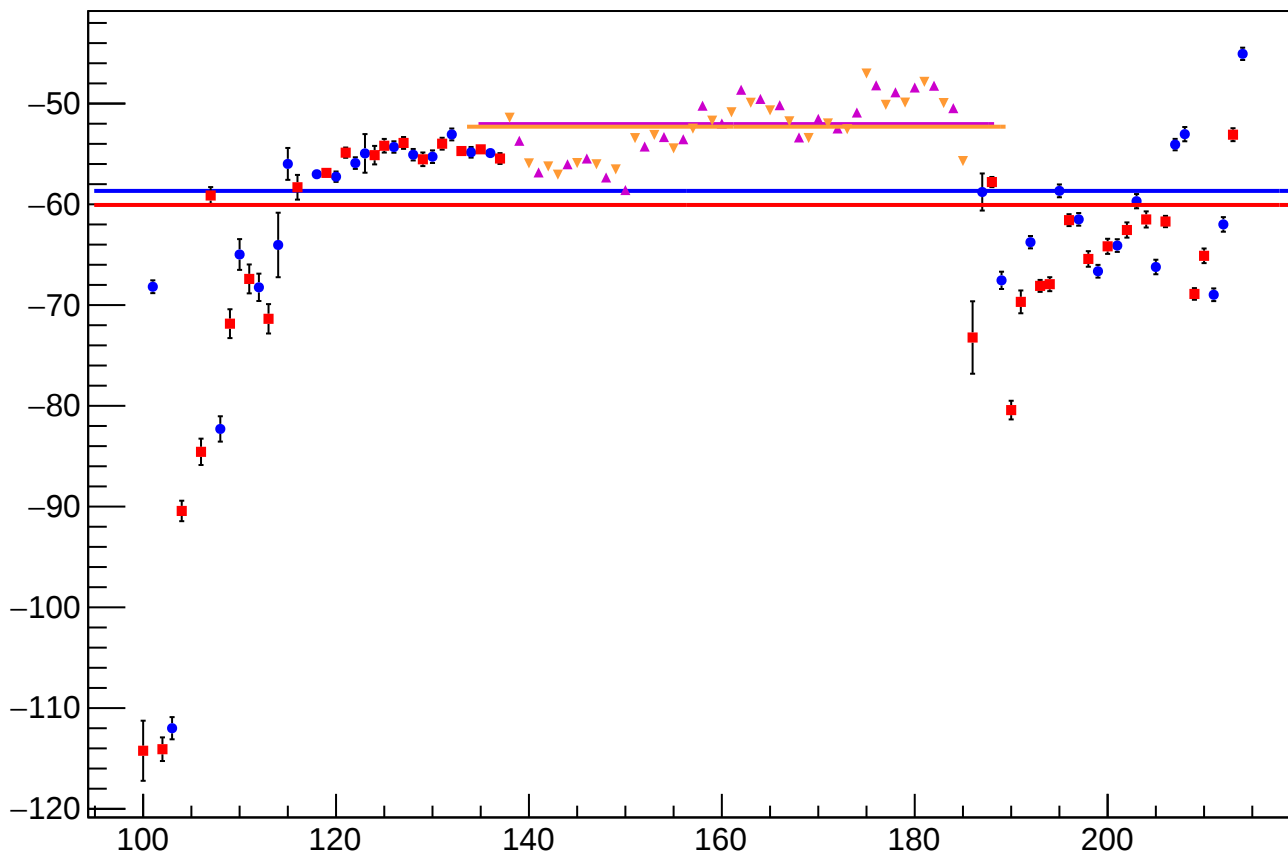
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.883 ± 0.124 χ^2/NDF : 928.9/13
 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: -5.920 ± 0.089 χ^2/NDF : 2402.2/28
 In: -7.294 ± 0.060 χ^2/NDF : 4818.8/36
 Out: -7.653 ± 0.060 χ^2/NDF : 5334.9/39
 All: -7.475 ± 0.042 χ^2/NDF : 10171.7/76

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.669 ± 0.112 $\chi^2/\text{NDF}: 4969.4/30$

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 $\chi^2/\text{NDF}: 5848.6/47$

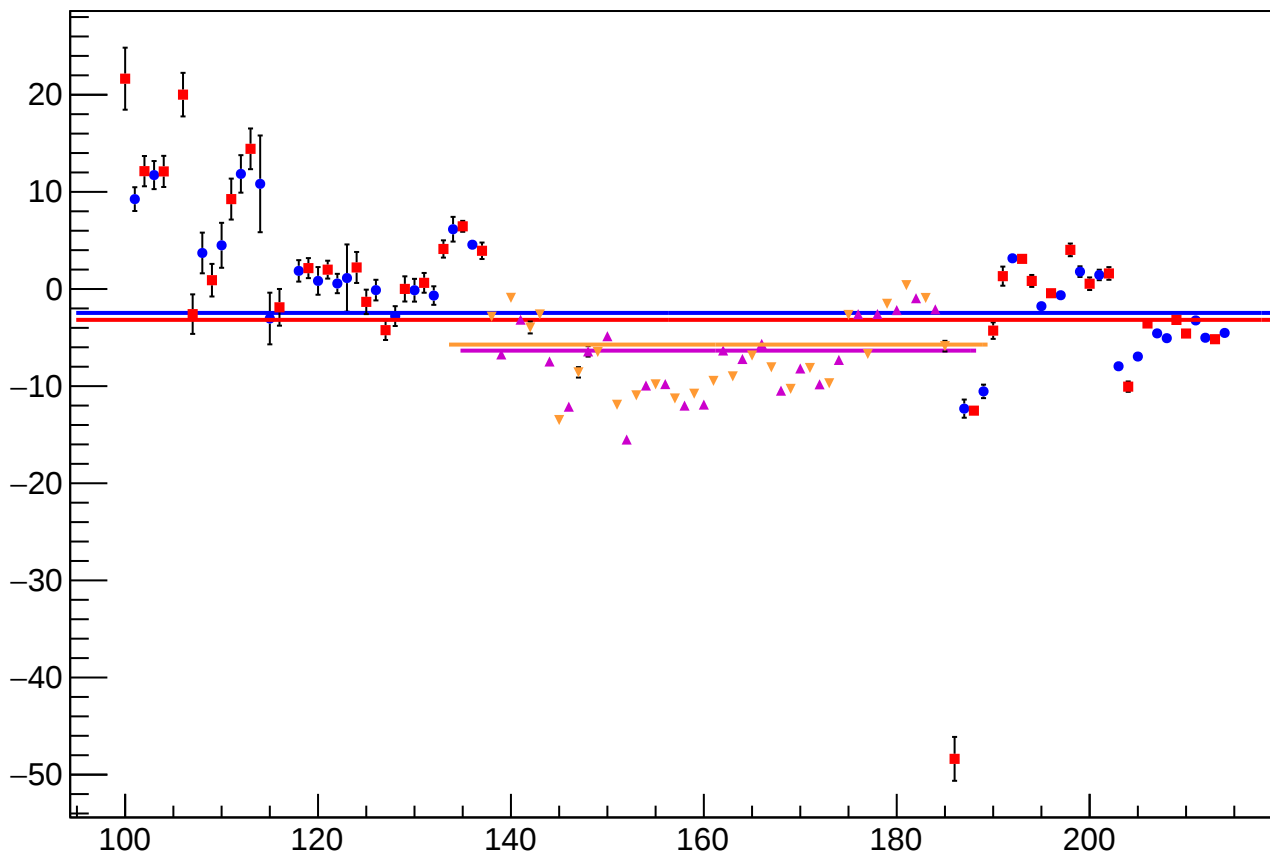
Right: -59.369 ± 0.079 $\chi^2/\text{NDF}: 11420.6/64$

In: -53.401 ± 0.051 $\chi^2/\text{NDF}: 10916.9/53$

Out: -53.809 ± 0.049 $\chi^2/\text{NDF}: 12906.6/58$

All: -53.611 ± 0.035 $\chi^2/\text{NDF}: 23856.6/112$

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.461 ± 0.110 χ^2/NDF : 1521.3/30

Left Out: -5.722 ± 0.068 χ^2/NDF : 3983.0/24

Right Out: -3.177 ± 0.110 χ^2/NDF : 3239.8/33

Left In: -6.344 ± 0.069 χ^2/NDF : 3383.7/22

Left: -6.028 ± 0.048 χ^2/NDF : 7408.5/47

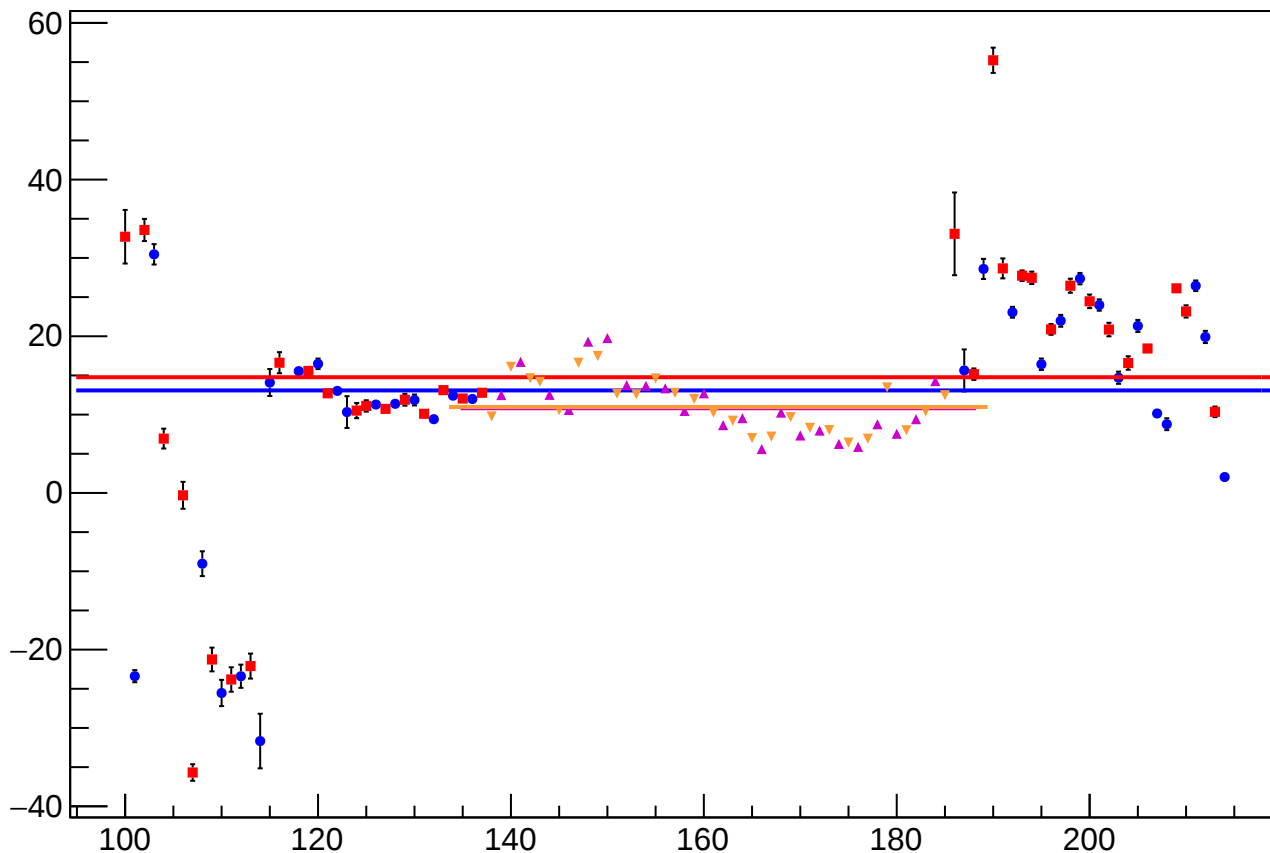
Right: -2.819 ± 0.078 χ^2/NDF : 4782.3/64

In: -5.250 ± 0.058 χ^2/NDF : 5806.8/53

Out: -5.022 ± 0.058 χ^2/NDF : 7612.7/58

All: -5.135 ± 0.041 χ^2/NDF : 13427.3/112

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.087 ± 0.125 χ^2/NDF : 6080.1/30

Left Out: 10.967 ± 0.061 χ^2/NDF : 2637.7/24

Right Out: 14.772 ± 0.127 χ^2/NDF : 6913.3/33

Left In: 10.813 ± 0.063 χ^2/NDF : 3546.8/22

Left: 10.892 ± 0.044 χ^2/NDF : 6187.5/47

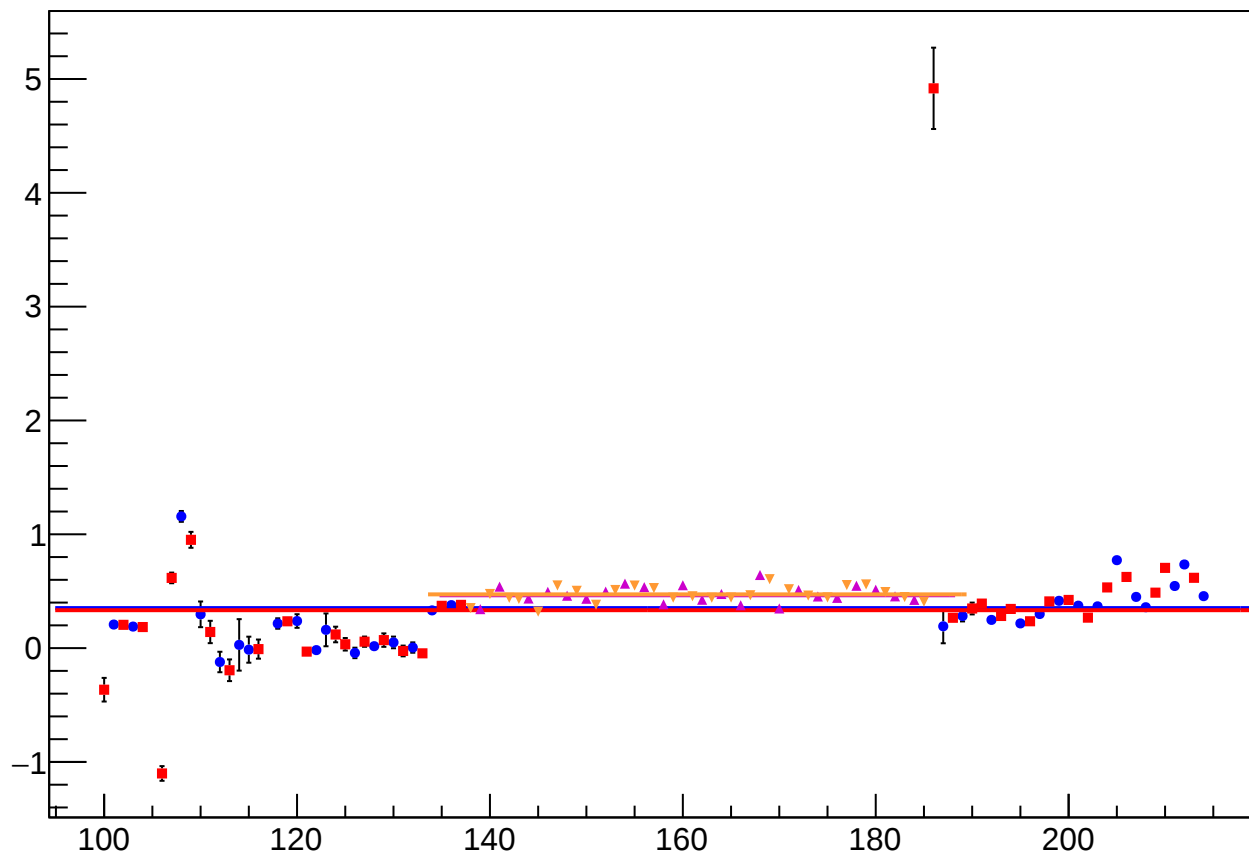
Right: 13.916 ± 0.089 χ^2/NDF : 13083.3/64

In: 11.277 ± 0.056 χ^2/NDF : 9891.5/53

Out: 11.690 ± 0.055 χ^2/NDF : 10281.1/58

All: 11.488 ± 0.039 χ^2/NDF : 20200.0/112

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.352 $\pm$ 0.005 χ^2 /NDF: 1089.6/30

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF:519.0/24

Right Out: 0.333 $\pm$ 0.006 χ^2 /NDF: 1723.0/33

Left In: 0.464 $\pm$ 0.003 χ^2 /NDF:733.1/22

Left: 0.468 $\pm$ 0.002 χ^2 /NDF: 1256.2/47

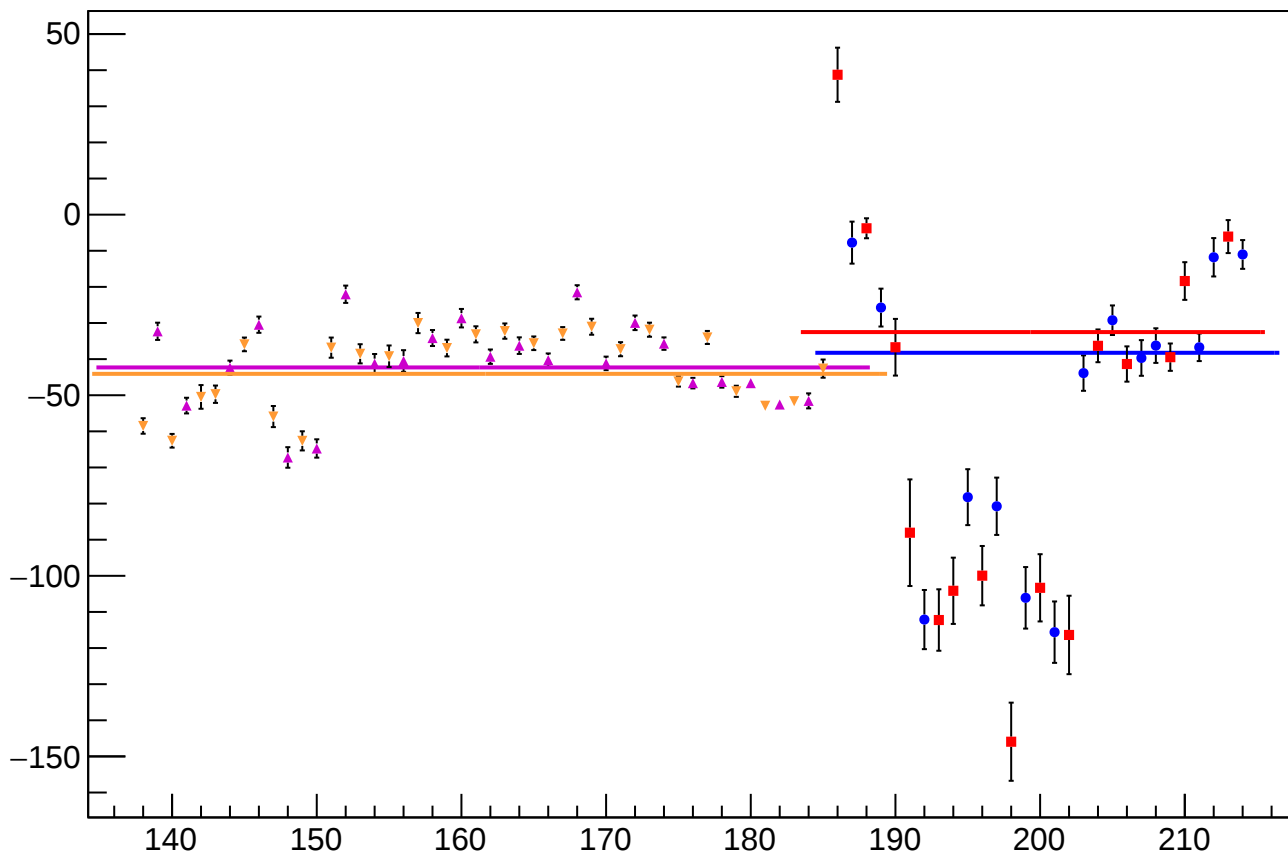
Right: 0.343 $\pm$ 0.004 χ^2 /NDF: 2818.2/64

In: 0.441 $\pm$ 0.002 χ^2 /NDF:2161.2/53

Out: 0.445 $\pm$ 0.002 χ^2 /NDF:2743.2/58

All: 0.443 $\pm$ 0.002 χ^2 /NDF: 4905.5/112

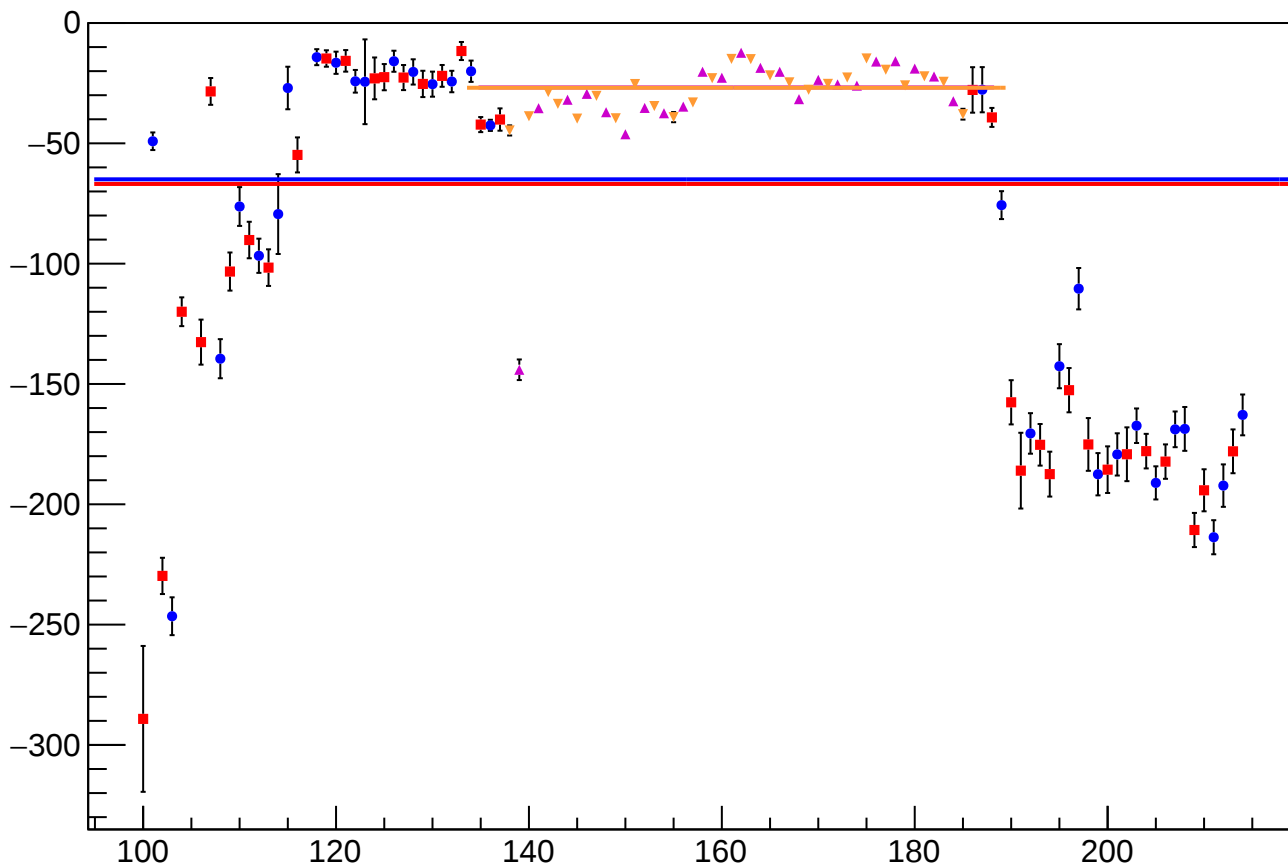
reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -38.248 ± 1.423 $\chi^2/\text{NDF}: 394.1/13$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -32.513 ± 1.438 $\chi^2/\text{NDF}: 704.4/14$
 Left In: -42.304 ± 0.399 $\chi^2/\text{NDF}: 640.6/22$

Left: -43.214 ± 0.278 $\chi^2/\text{NDF}: 1283.3/47$
 Right: -35.411 ± 1.012 $\chi^2/\text{NDF}: 1106.5/28$
 In: -42.008 ± 0.384 $\chi^2/\text{NDF}: 1042.3/36$
 Out: -43.291 ± 0.375 $\chi^2/\text{NDF}: 1397.2/39$
 All: -42.665 ± 0.268 $\chi^2/\text{NDF}: 2445.2/76$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -64.954 ± 1.010 $\chi^2/\text{NDF}: 3925.7/30$

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 $\chi^2/\text{NDF}: 2025.6/47$

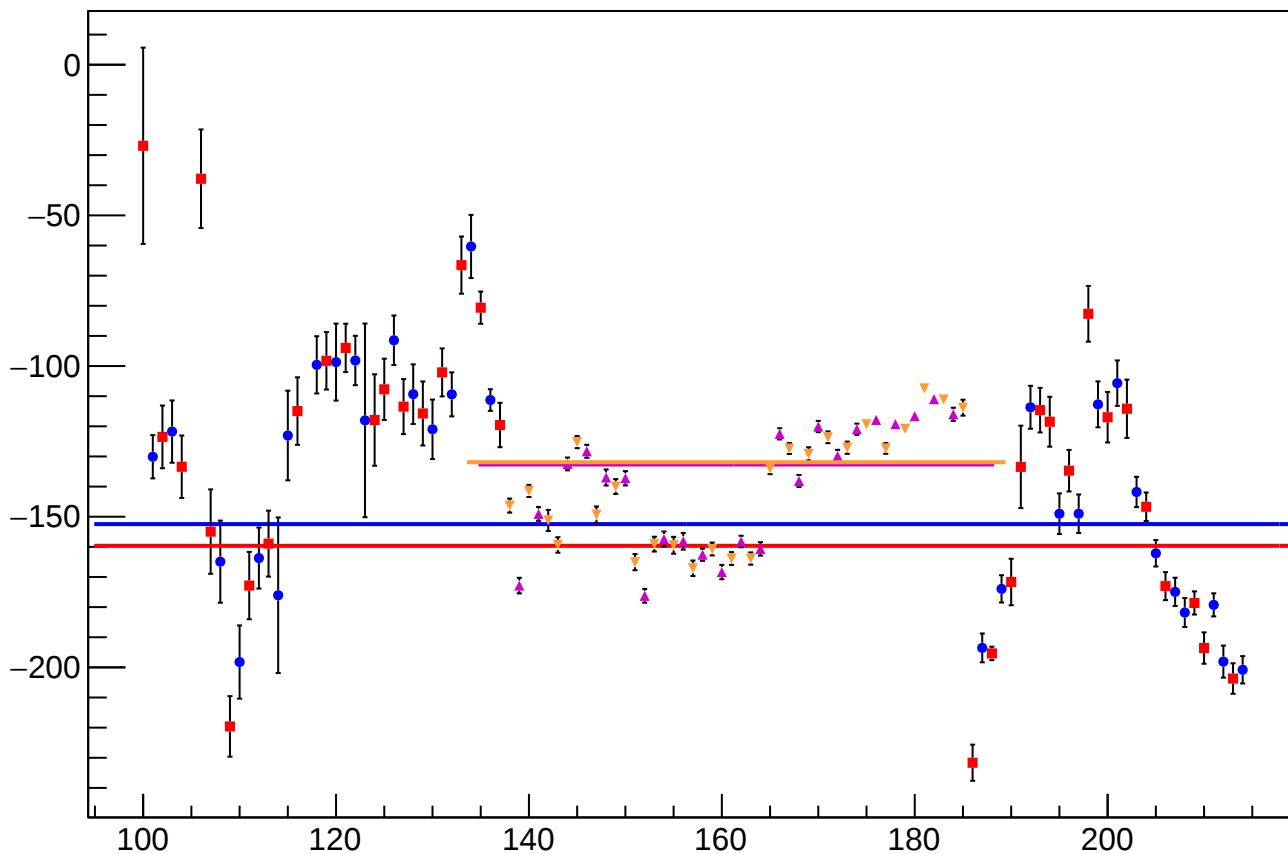
Right: -65.888 ± 0.725 $\chi^2/\text{NDF}: 7925.9/64$

In: -30.384 ± 0.311 $\chi^2/\text{NDF}: 6614.5/53$

Out: -30.271 ± 0.303 $\chi^2/\text{NDF}: 5976.1/58$

All: -30.326 ± 0.217 $\chi^2/\text{NDF}: 12590.7/112$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -152.450 ± 1.150 χ^2/NDF : 959.0/30

Left Out: -131.912 ± 0.391 χ^2/NDF : 2439.3/24

Right Out: -159.664 ± 1.132 χ^2/NDF : 1482.3/33

Left In: -132.690 ± 0.399 χ^2/NDF : 2480.2/22

Left: -132.293 ± 0.280 χ^2/NDF : 4921.5/47

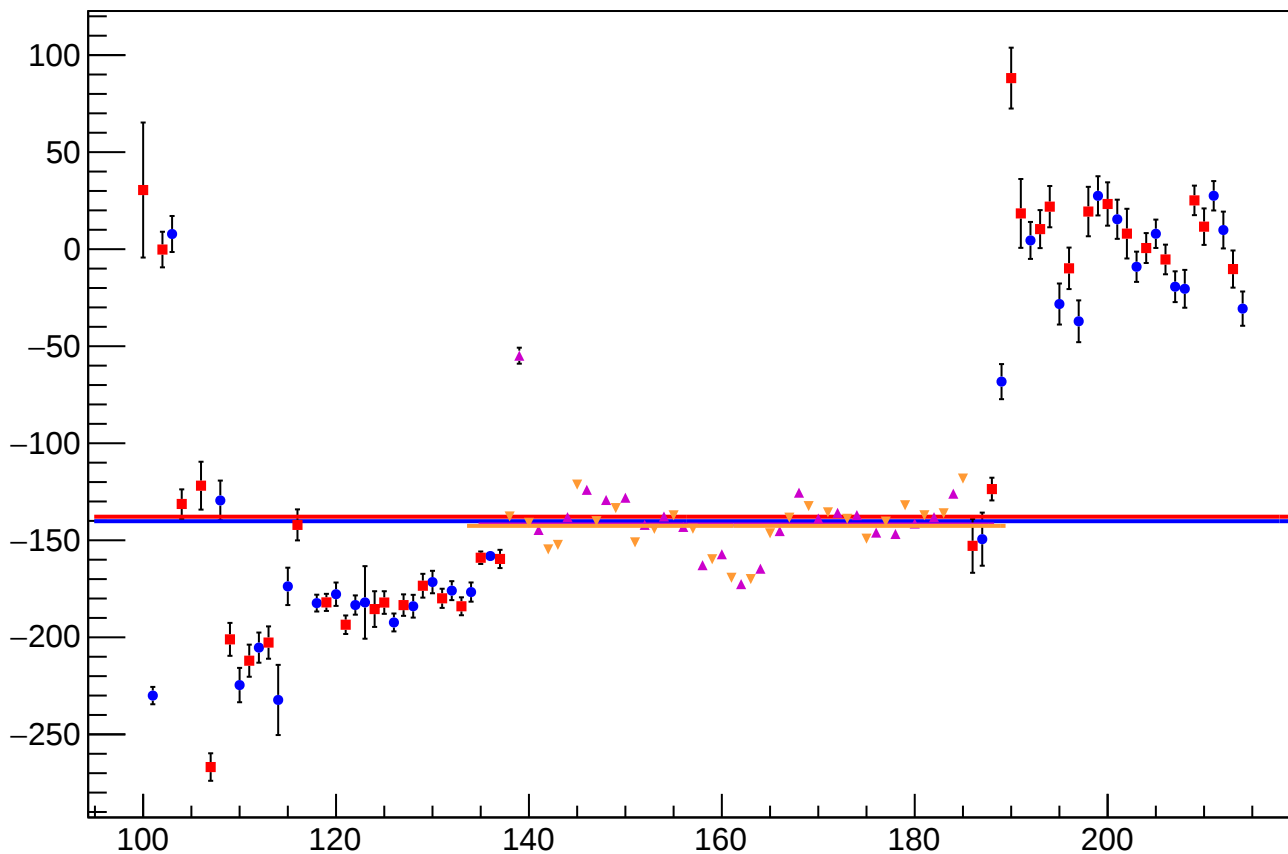
Right: -156.114 ± 0.807 χ^2/NDF : 2461.4/64

In: -134.817 ± 0.377 χ^2/NDF : 3702.8/53

Out: -134.877 ± 0.370 χ^2/NDF : 4458.7/58

All: -134.848 ± 0.264 χ^2/NDF : 8161.4/112

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -140.163 ± 1.132 χ^2/NDF : 4436.0/30

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

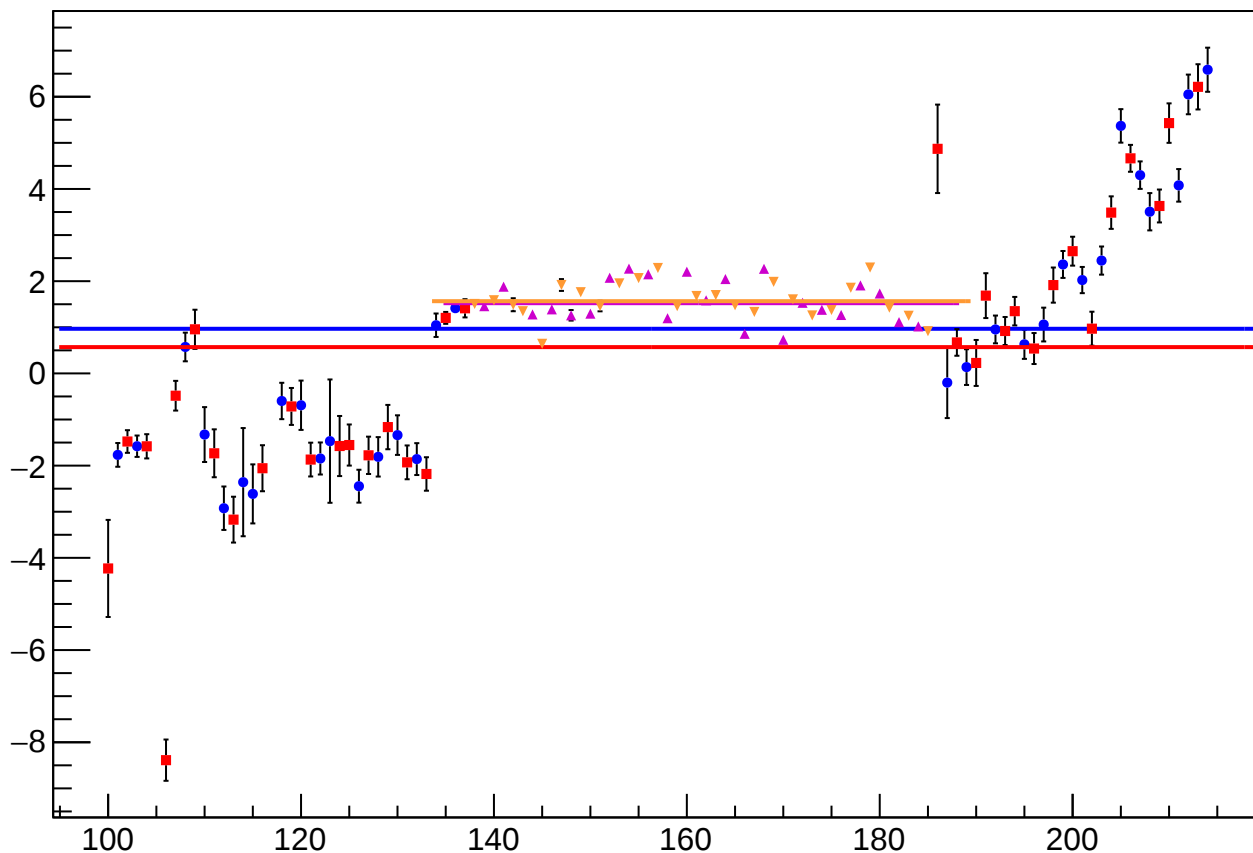
Right: -139.061 ± 0.821 χ^2/NDF : 8770.0/64

In: -141.698 ± 0.346 χ^2/NDF : 5982.3/53

Out: -142.180 ± 0.339 χ^2/NDF : 5494.2/58

All: -141.944 ± 0.242 χ^2/NDF : 11477.5/112

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.968 ± 0.055 $\chi^2/\text{NDF}: 1436.8/30$

Left Out: 1.566 ± 0.016 $\chi^2/\text{NDF}: 542.8/24$

Right Out: 0.570 ± 0.057 $\chi^2/\text{NDF}: 1646.1/33$

Left In: 1.523 ± 0.017 $\chi^2/\text{NDF}: 738.5/22$

Left: 1.545 ± 0.012 $\chi^2/\text{NDF}: 1284.8/47$

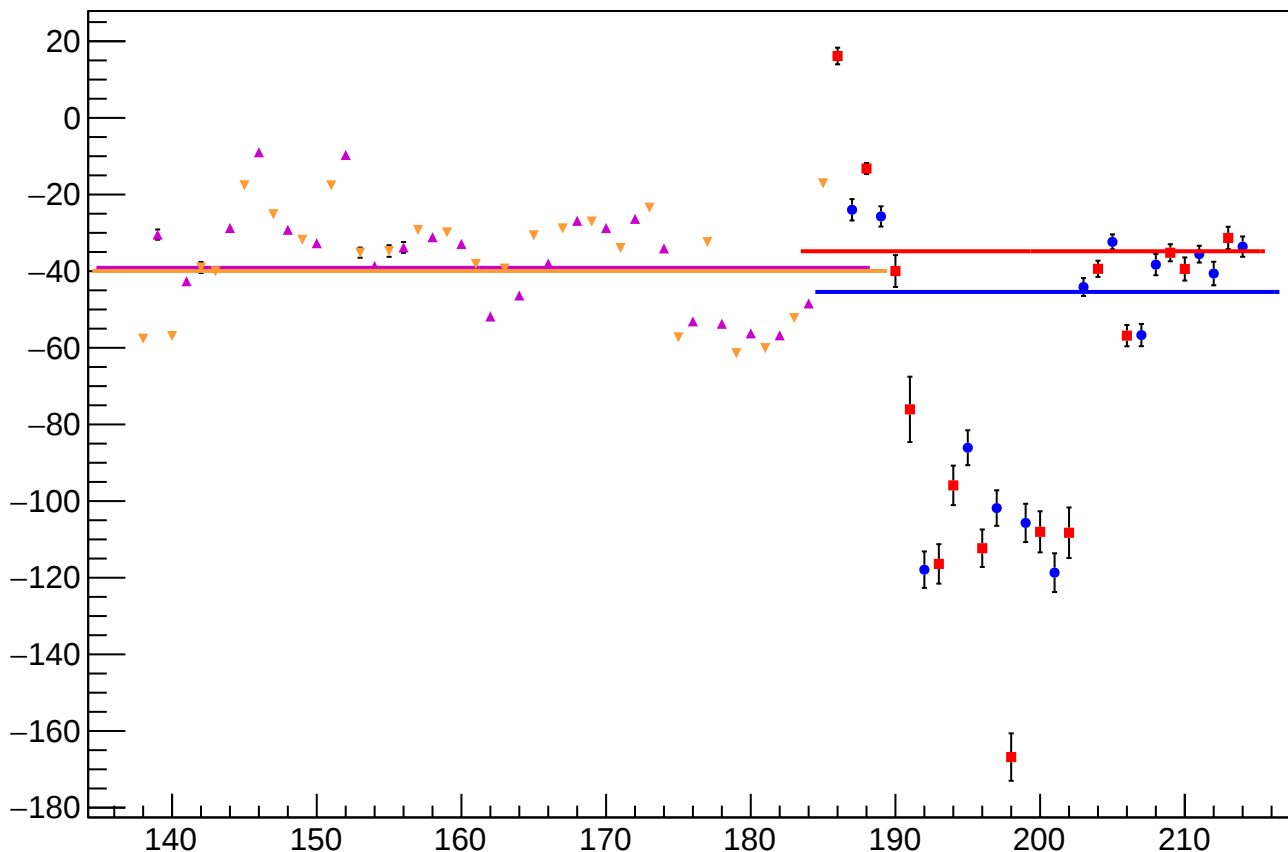
Right: 0.777 ± 0.039 $\chi^2/\text{NDF}: 3108.4/64$

In: 1.476 ± 0.016 $\chi^2/\text{NDF}: 2270.2/53$

Out: 1.492 ± 0.016 $\chi^2/\text{NDF}: 2472.8/58$

All: 1.484 ± 0.011 $\chi^2/\text{NDF}: 4743.5/112$

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -45.417 ± 0.781 $\chi^2/\text{NDF}: 1039.6/13$

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 $\chi^2/\text{NDF}: 18354.5/47$

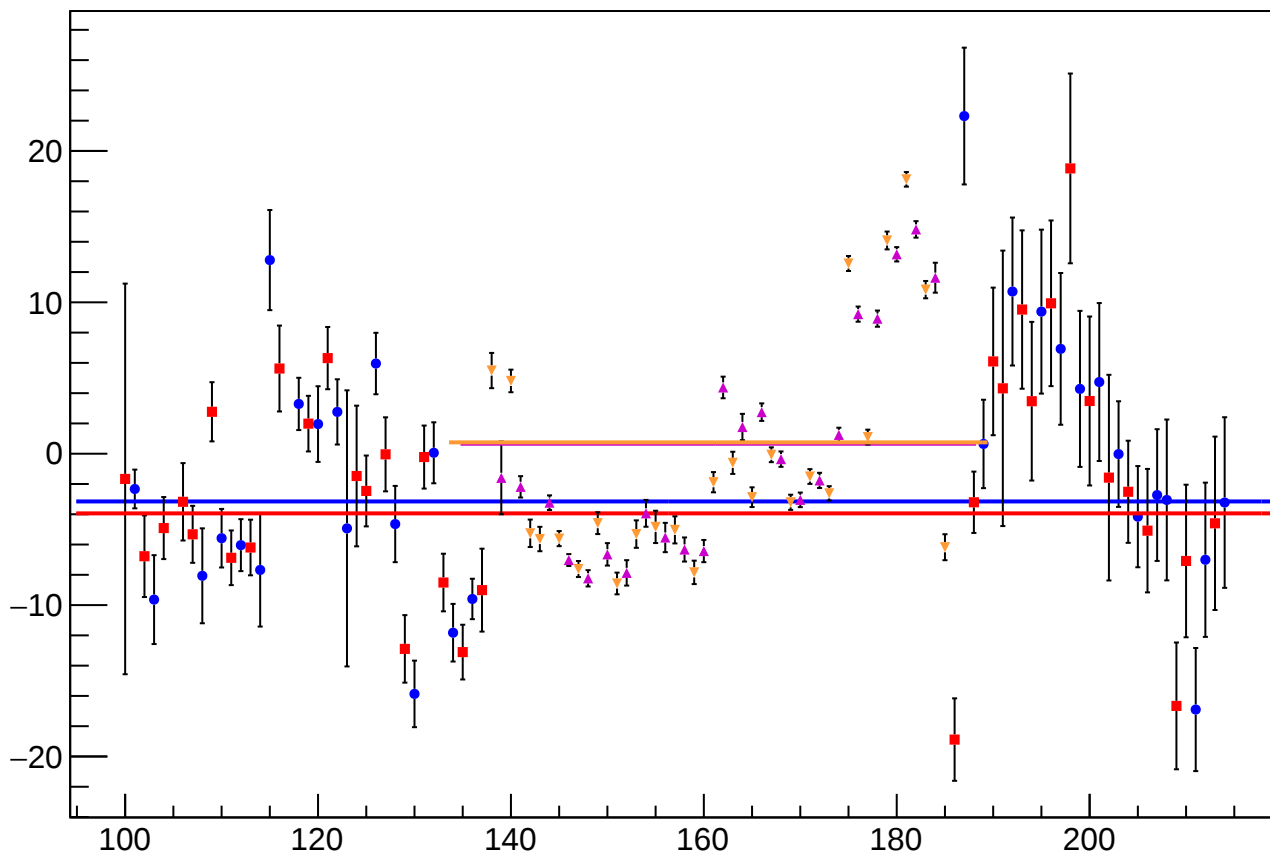
Right: -39.942 ± 0.543 $\chi^2/\text{NDF}: 3414.3/28$

In: -39.374 ± 0.152 $\chi^2/\text{NDF}: 9636.4/36$

Out: -39.733 ± 0.150 $\chi^2/\text{NDF}: 12130.1/39$

All: -39.555 ± 0.107 $\chi^2/\text{NDF}: 21769.3/76$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.153 $\pm$ 0.458 χ^2 /NDF: 231.2/30

Left Out: 0.749 $\pm$ 0.124 χ^2 /NDF: 3970.9/24

Right Out: -3.941 $\pm$ 0.458 χ^2 /NDF: 197.4/33

Left In: 0.660 $\pm$ 0.124 χ^2 /NDF: 3337.8/22

Left: 0.705 $\pm$ 0.088 χ^2 /NDF: 7308.9/47

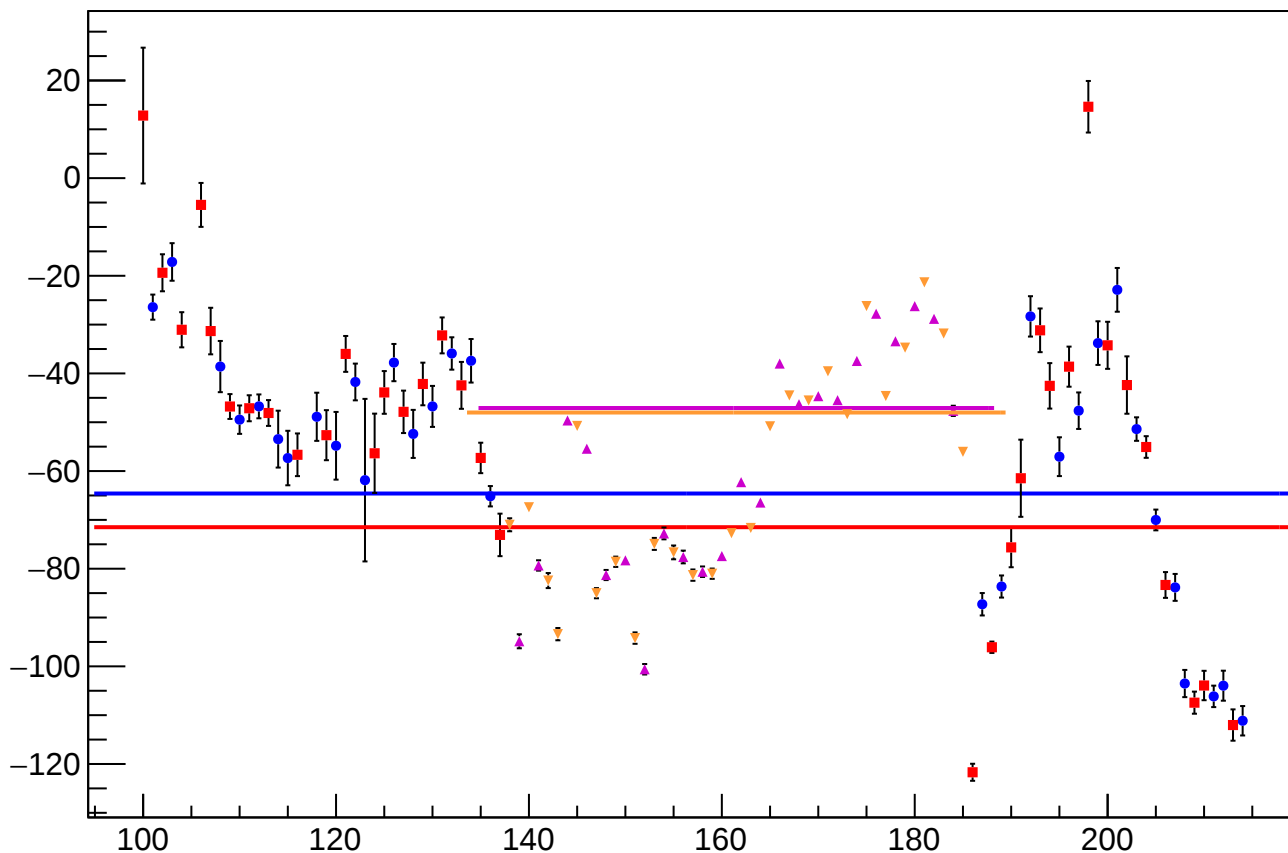
Right: -3.548 $\pm$ 0.324 χ^2 /NDF: 430.1/64

In: 0.399 $\pm$ 0.120 χ^2 /NDF: 3633.5/53

Out: 0.427 $\pm$ 0.120 χ^2 /NDF: 4266.1/58

All: 0.413 $\pm$ 0.085 χ^2 /NDF: 7899.6/112

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.599 ± 0.574 χ^2/NDF : 2161.9/30

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

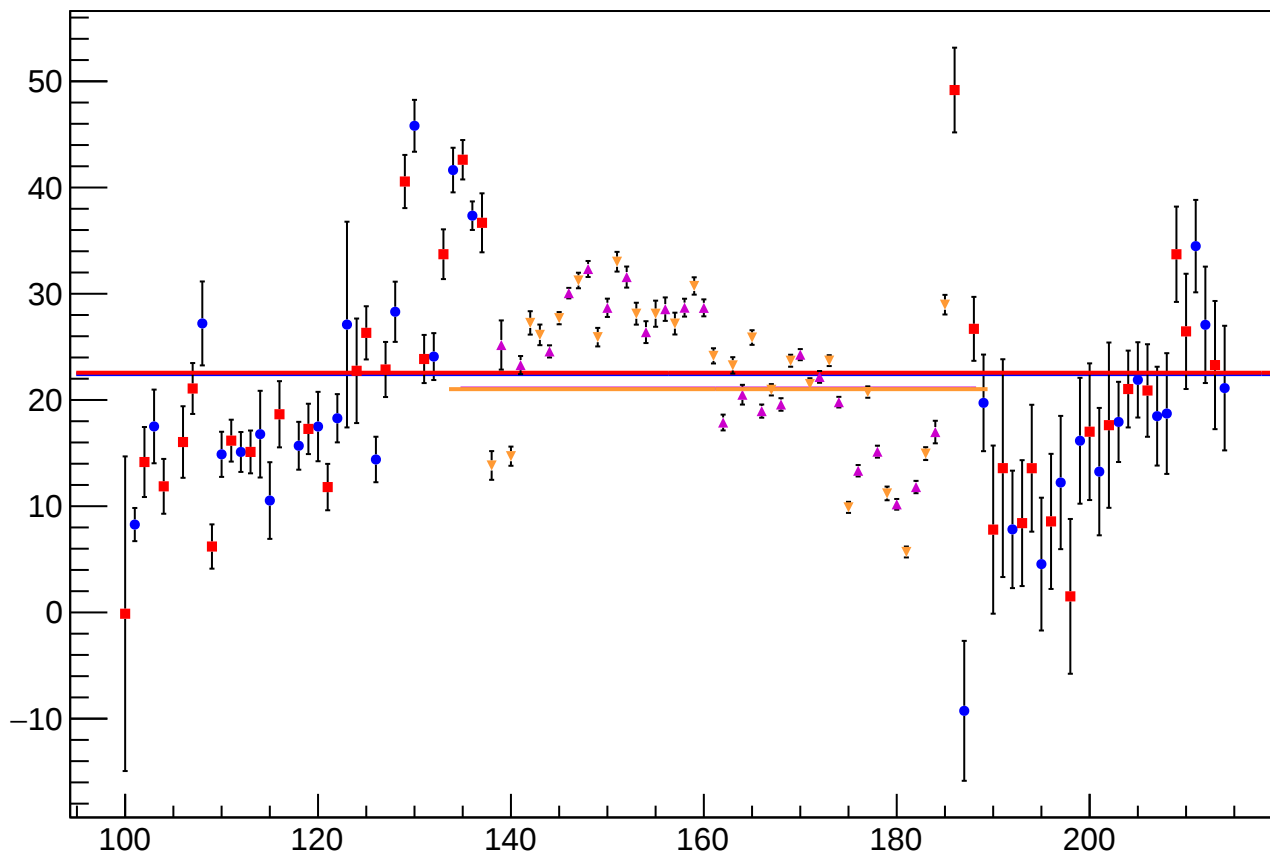
Right: -68.273 ± 0.393 χ^2/NDF : 5957.8/64

In: -48.279 ± 0.150 χ^2/NDF : 18543.8/53

Out: -49.801 ± 0.149 χ^2/NDF : 22429.9/58

All: -49.047 ± 0.106 χ^2/NDF : 41025.6/112

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.435 $\pm$ 0.517 χ^2 /NDF: 514.6/30

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

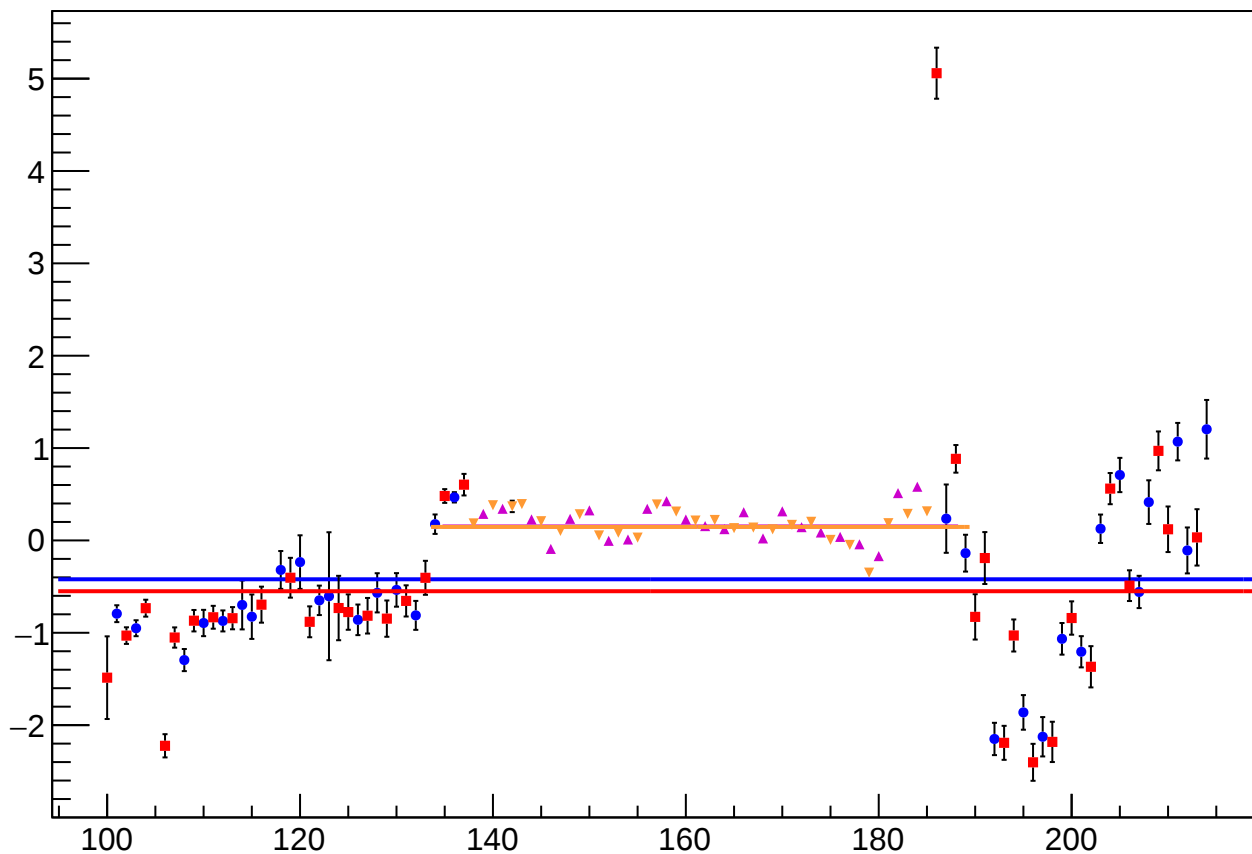
Right: 22.499 $\pm$ 0.368 χ^2 /NDF: 961.1/64

In: 21.171 $\pm$ 0.135 χ^2 /NDF:2694.2/53

Out: 21.121 $\pm$ 0.134 χ^2 /NDF:3253.8/58

All: 21.146 $\pm$ 0.095 χ^2 /NDF: 5948.1/112

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.421 ± 0.026 $\chi^2/\text{NDF}: 846.2/30$

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 $\chi^2/\text{NDF}: 1480.1/47$

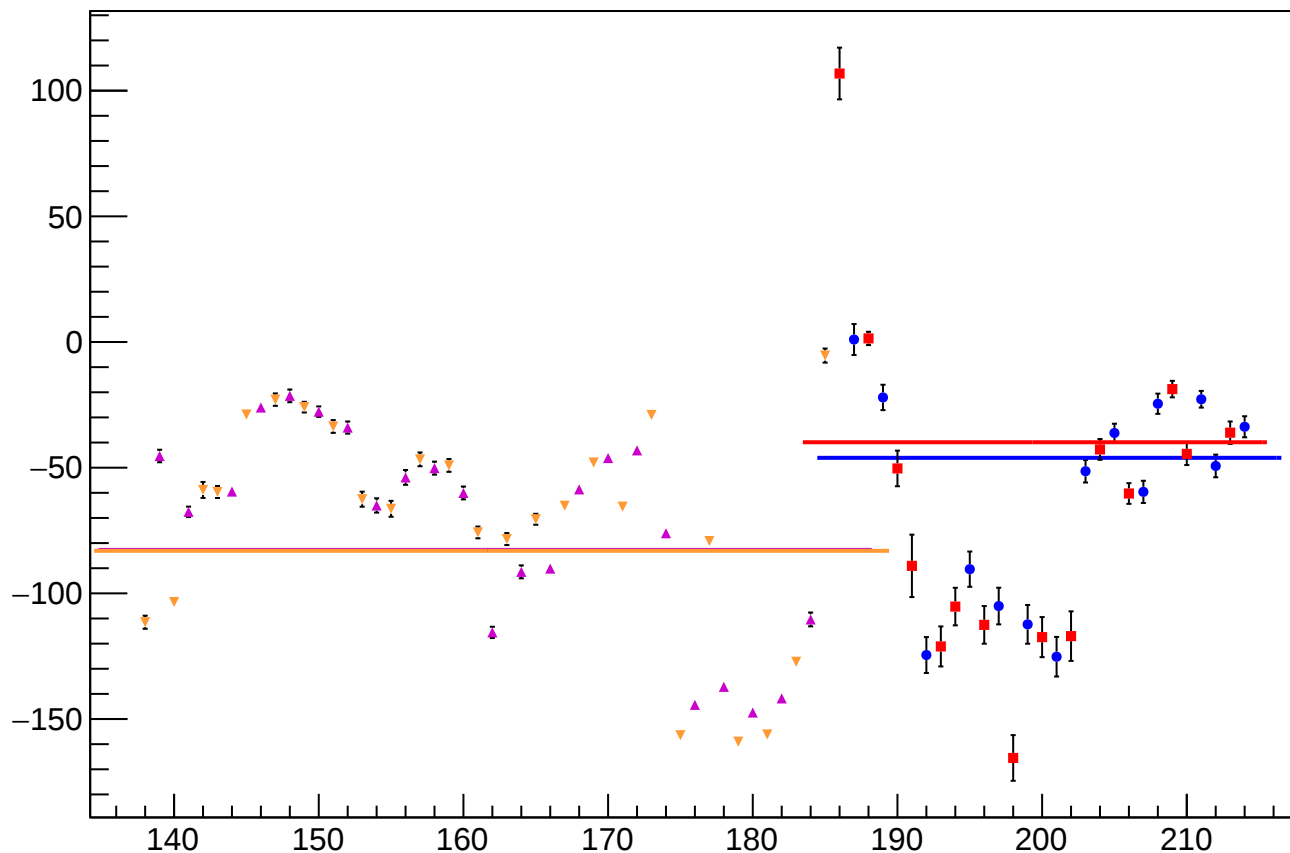
Right: -0.485 ± 0.019 $\chi^2/\text{NDF}: 2270.9/64$

In: 0.119 ± 0.006 $\chi^2/\text{NDF}: 2165.5/53$

Out: 0.108 ± 0.006 $\chi^2/\text{NDF}: 2691.4/58$

All: 0.113 ± 0.004 $\chi^2/\text{NDF}: 4858.6/112$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -46.079 ± 1.301 $\chi^2/\text{NDF}: 587.0/13$

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 $\chi^2/\text{NDF}: 24659.1/47$

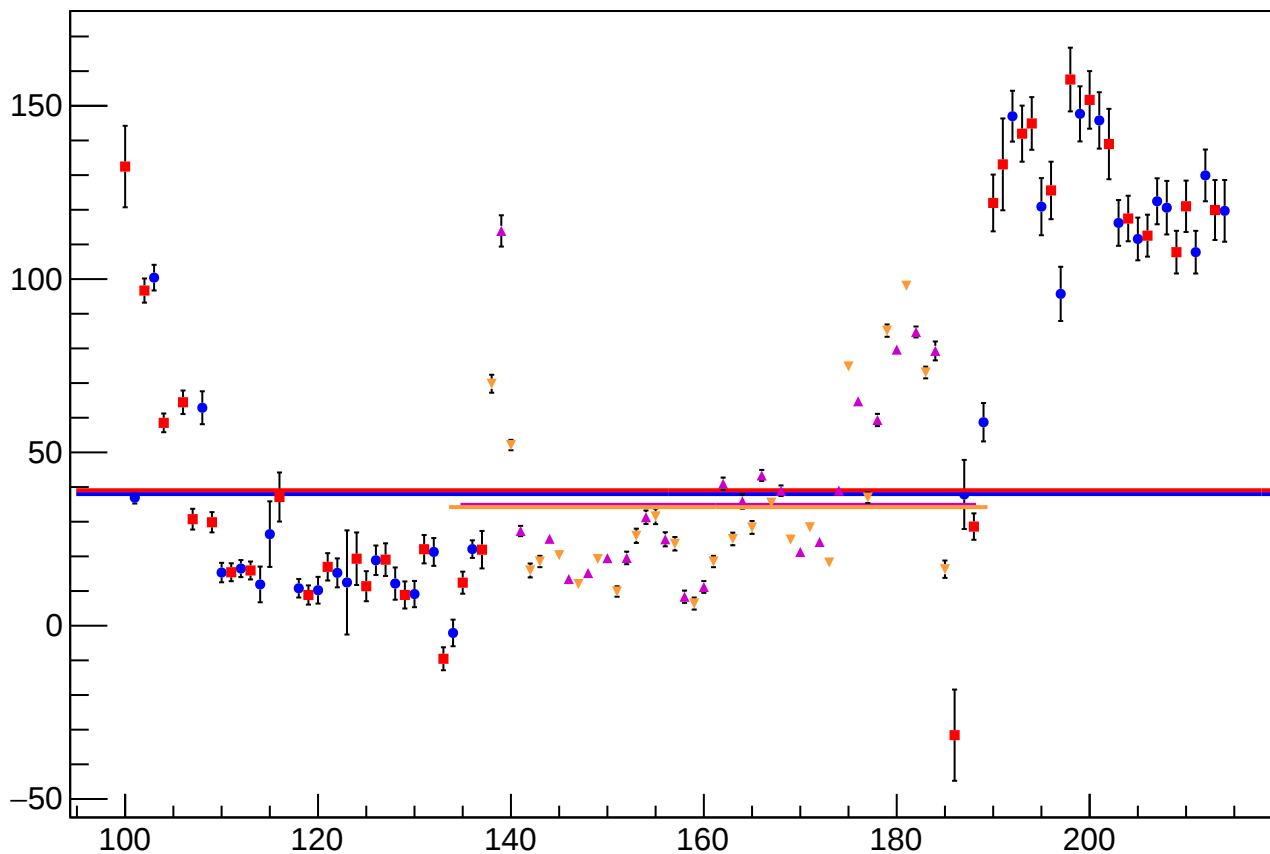
Right: -43.011 ± 0.925 $\chi^2/\text{NDF}: 1752.0/28$

In: -79.328 ± 0.395 $\chi^2/\text{NDF}: 12147.5/36$

Out: -79.302 ± 0.388 $\chi^2/\text{NDF}: 15956.0/39$

All: -79.315 ± 0.277 $\chi^2/\text{NDF}: 28103.5/76$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 37.972 ± 0.745 $\chi^2/\text{NDF}: 2623.3/30$

Left Out: 34.219 ± 0.320 $\chi^2/\text{NDF}: 6192.6/24$

Right Out: 39.082 ± 0.744 $\chi^2/\text{NDF}: 2939.6/33$

Left In: 34.870 ± 0.329 $\chi^2/\text{NDF}: 4716.1/22$

Left: 34.535 ± 0.230 $\chi^2/\text{NDF}: 10910.7/47$

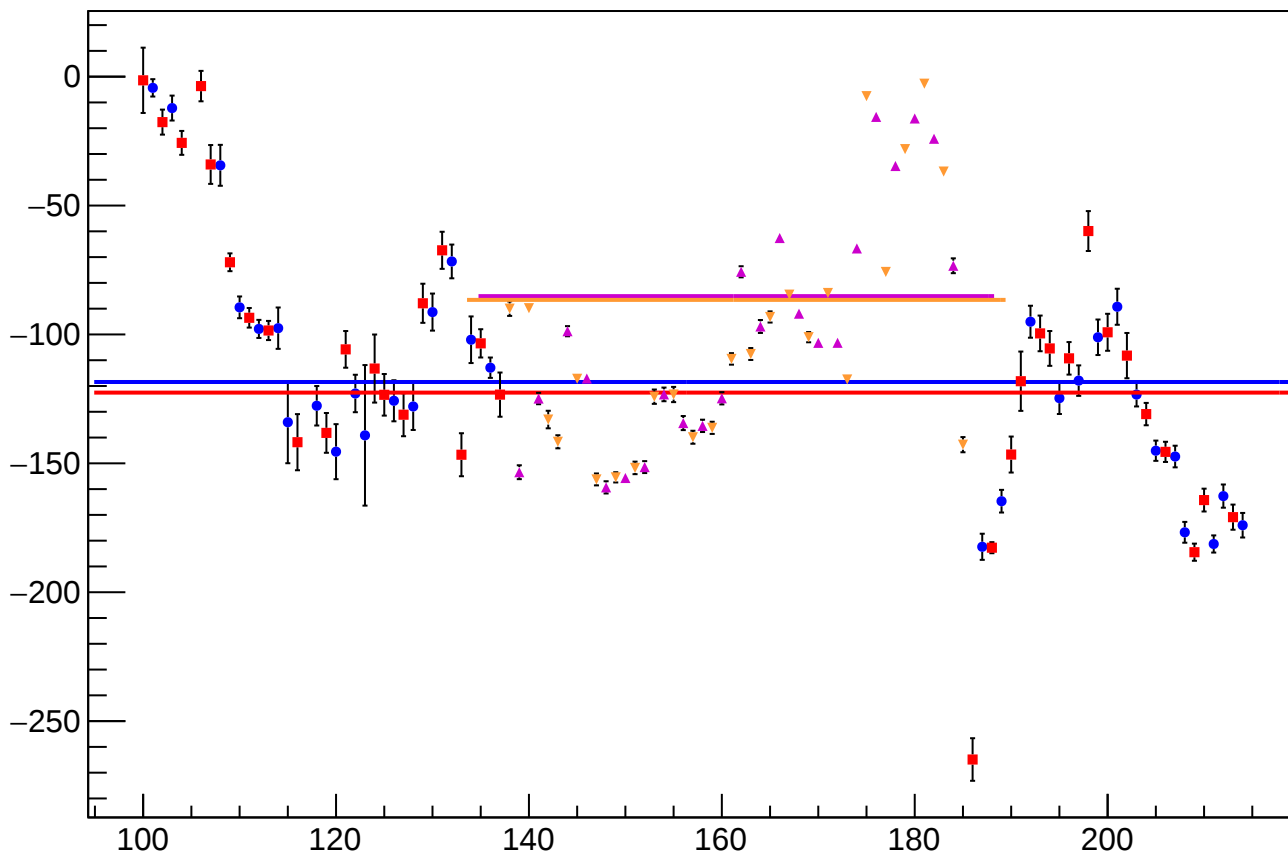
Right: 38.528 ± 0.526 $\chi^2/\text{NDF}: 5564.0/64$

In: 35.377 ± 0.301 $\chi^2/\text{NDF}: 7354.0/53$

Out: 34.980 ± 0.294 $\chi^2/\text{NDF}: 9168.3/58$

All: 35.173 ± 0.210 $\chi^2/\text{NDF}: 16523.1/112$

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -118.445 ± 0.943 χ^2/NDF : 3113.8/30

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

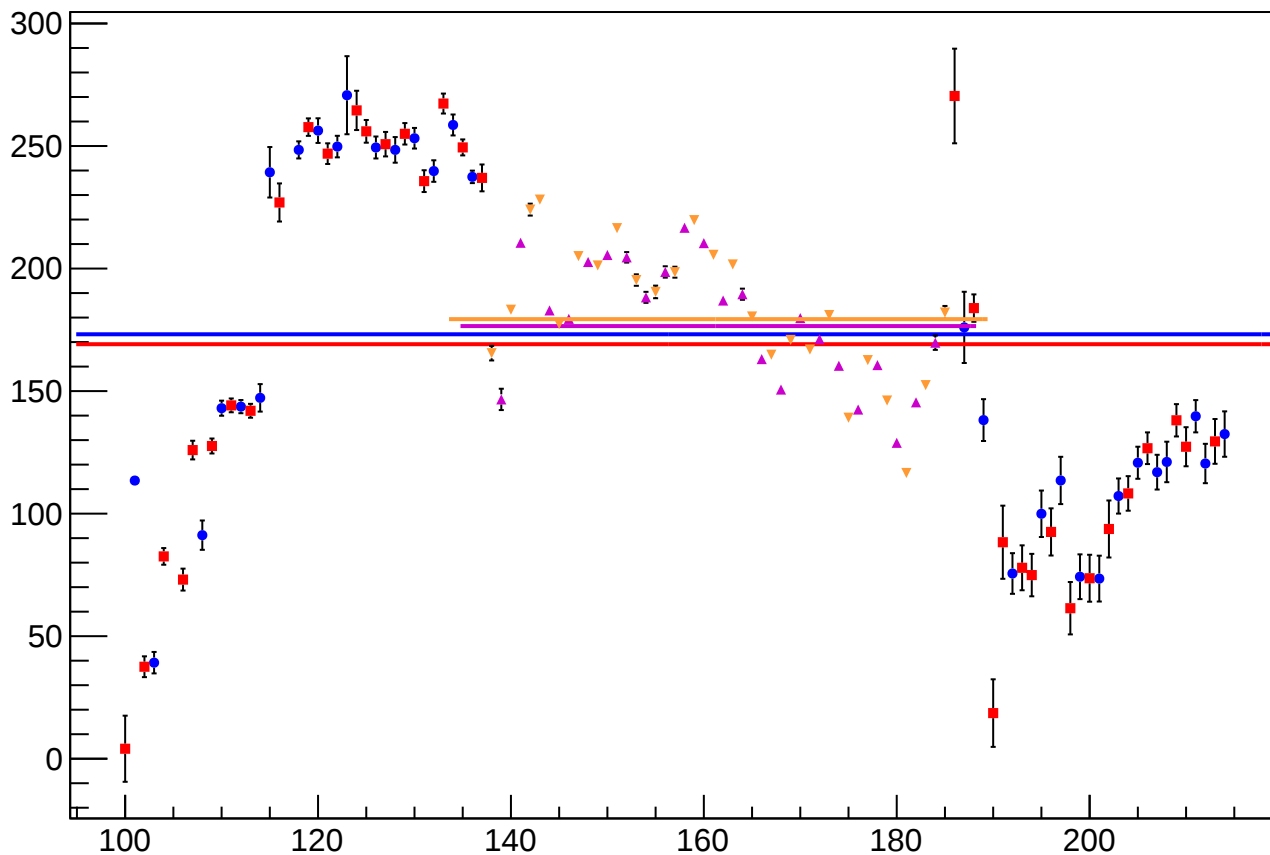
Right: -120.592 ± 0.653 χ^2/NDF : 6861.6/64

In: -90.535 ± 0.380 χ^2/NDF : 16999.6/53

Out: -92.696 ± 0.372 χ^2/NDF : 19569.0/58

All: -91.638 ± 0.266 χ^2/NDF : 36585.1/112

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 173.183+/-0.849 χ^2/NDF : 6266.7/30

Left Out: 179.359+/-0.362 χ^2/NDF : 5982.2/24

Right Out: 169.130+/-0.854 χ^2/NDF : 7318.8/33

Left In: 176.531+/-0.371 χ^2/NDF : 4426.0/22

Left: 177.980+/-0.259 χ^2/NDF : 10438.0/47

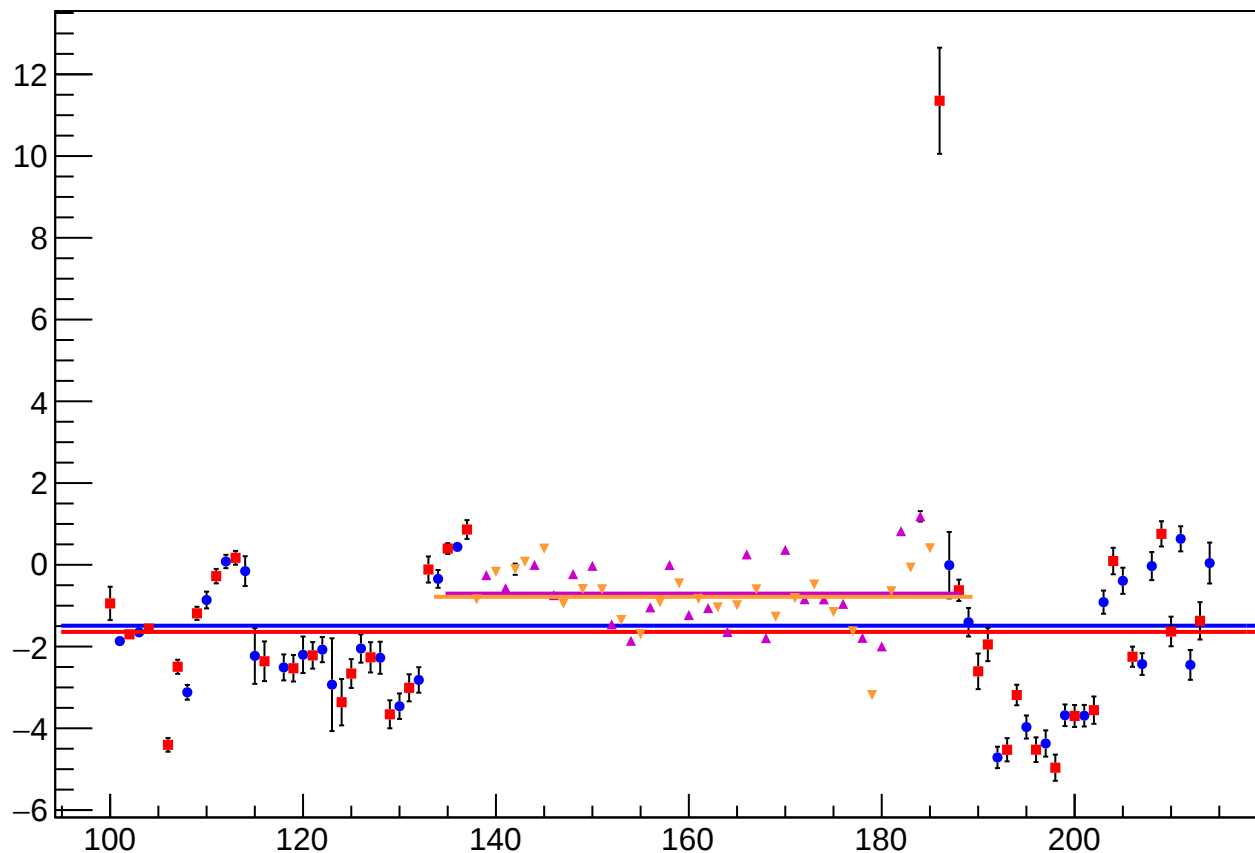
Right: 171.168+/-0.602 χ^2/NDF : 13596.9/64

In: 175.995+/-0.340 χ^2/NDF : 10705.8/53

Out: 177.802+/-0.333 χ^2/NDF : 13422.7/58

All: 176.917+/-0.238 χ^2/NDF : 24142.9/112

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.490 ± 0.042 χ^2/NDF : 1219.3/30

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

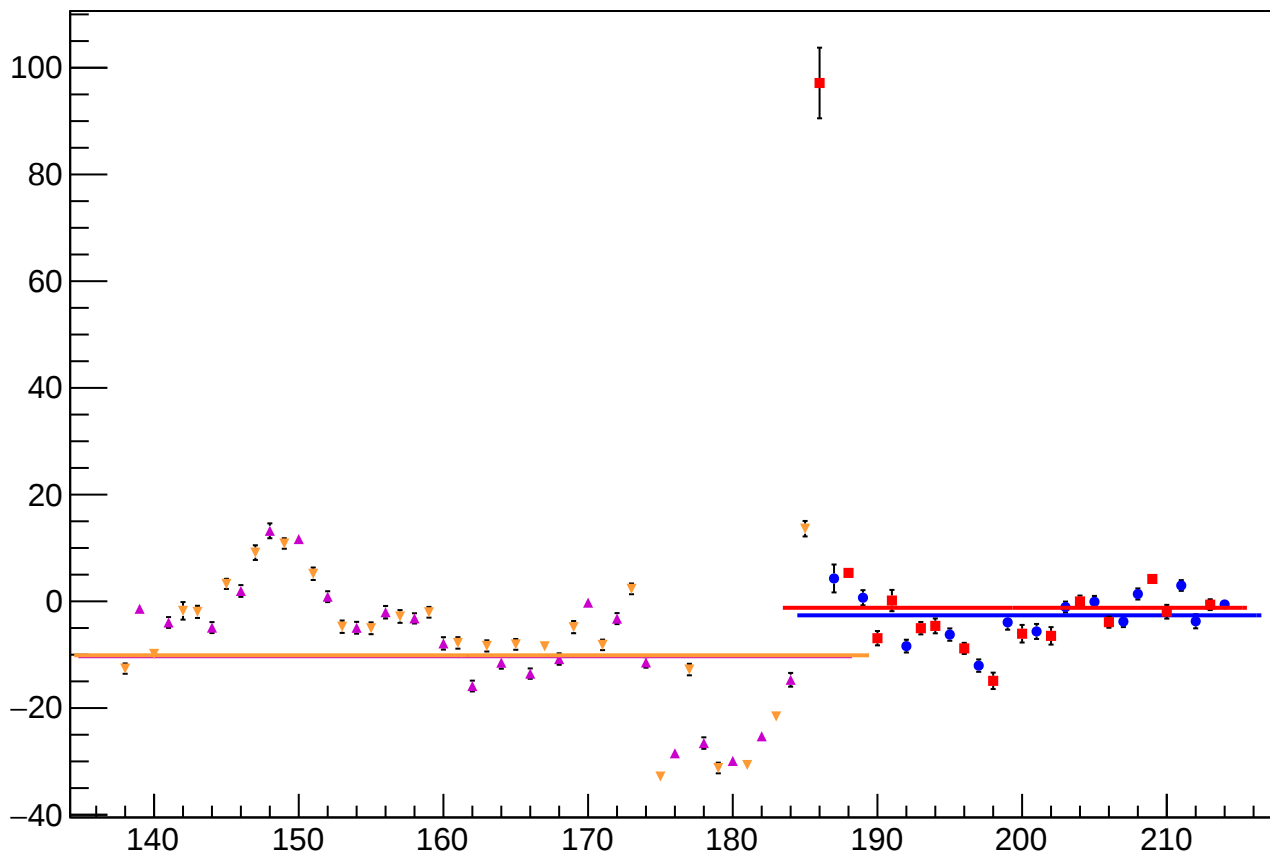
Right: -1.569 ± 0.029 χ^2/NDF : 2822.8/64

In: -0.815 ± 0.016 χ^2/NDF : 3930.2/53

Out: -0.909 ± 0.015 χ^2/NDF : 3759.8/58

All: -0.863 ± 0.011 χ^2/NDF : 7708.4/112

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.622 ± 0.314 $\chi^2/\text{NDF}: 176.5/13$

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 $\chi^2/\text{NDF}: 7589.5/47$

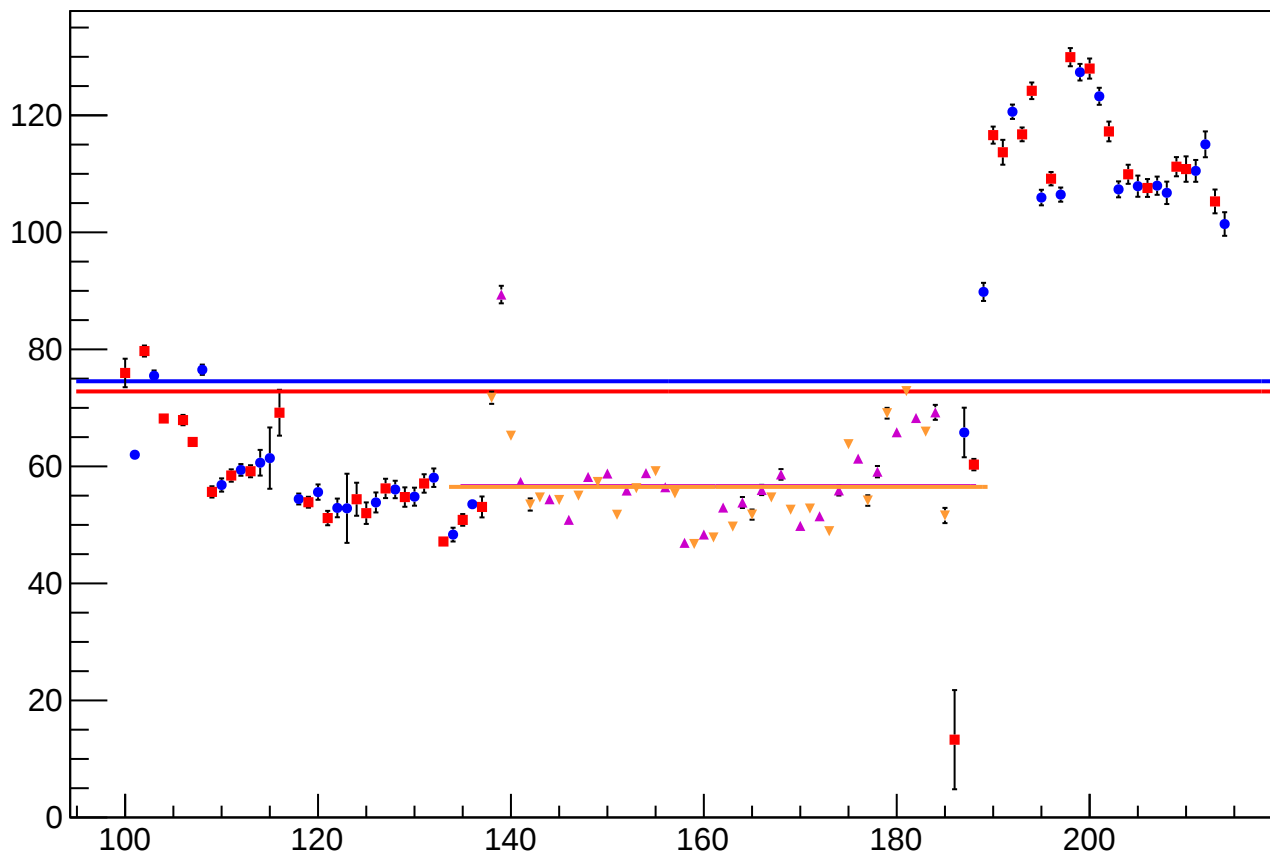
Right: -1.881 ± 0.216 $\chi^2/\text{NDF}: 745.6/28$

In: -7.989 ± 0.172 $\chi^2/\text{NDF}: 4045.6/36$

Out: -7.329 ± 0.167 $\chi^2/\text{NDF}: 5308.8/39$

All: -7.650 ± 0.120 $\chi^2/\text{NDF}: 9362.0/76$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 74.549+/-0.223 χ^2/NDF : 11536.0/30

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

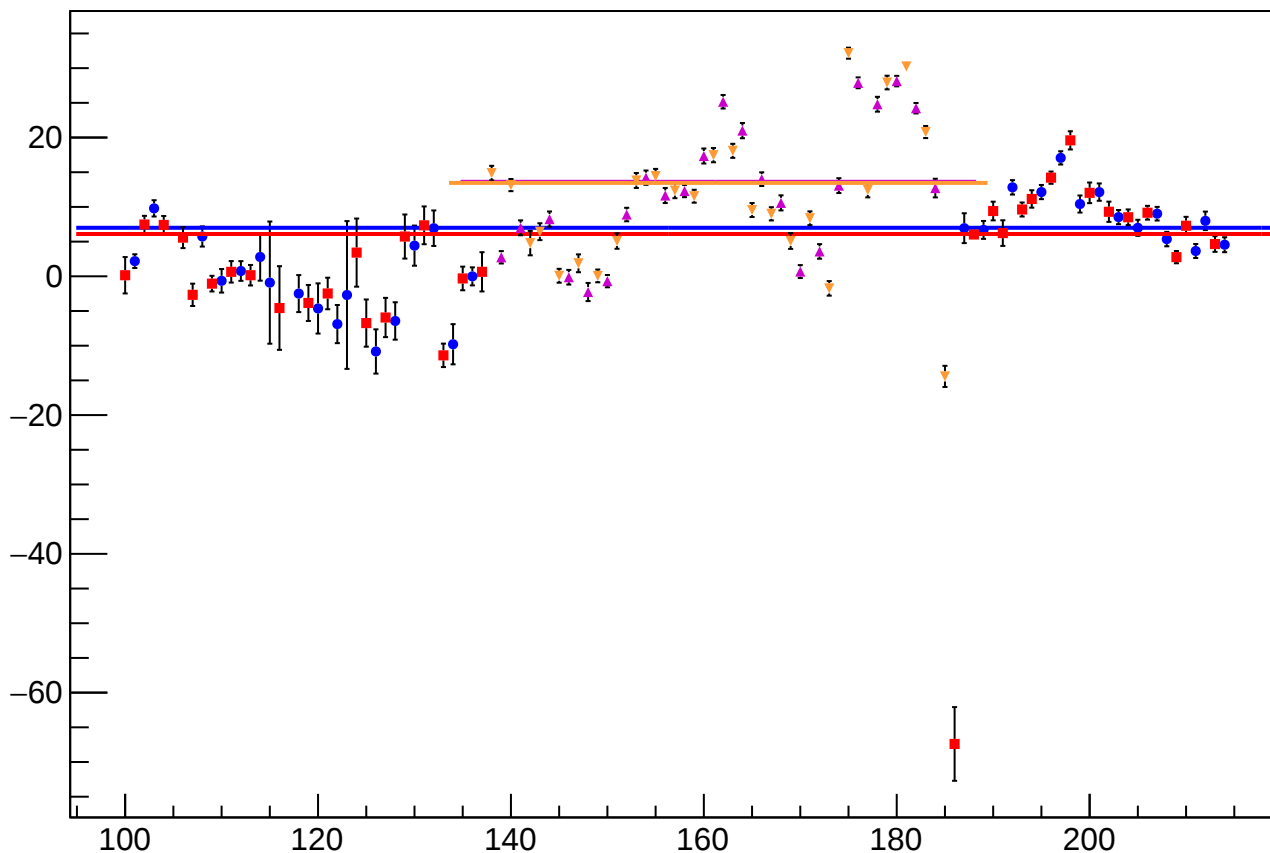
Right: 73.624+/-0.153 χ^2/NDF : 26222.5/64

In: 62.966+/-0.133 χ^2/NDF :17302.9/53

Out: 62.444+/-0.127 χ^2/NDF :20466.8/58

All: 62.693+/-0.092 χ^2/NDF : 37777.8/112

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.995 ± 0.251 χ^2/NDF : 458.5/30

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.096 ± 0.230 χ^2/NDF : 763.8/33

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

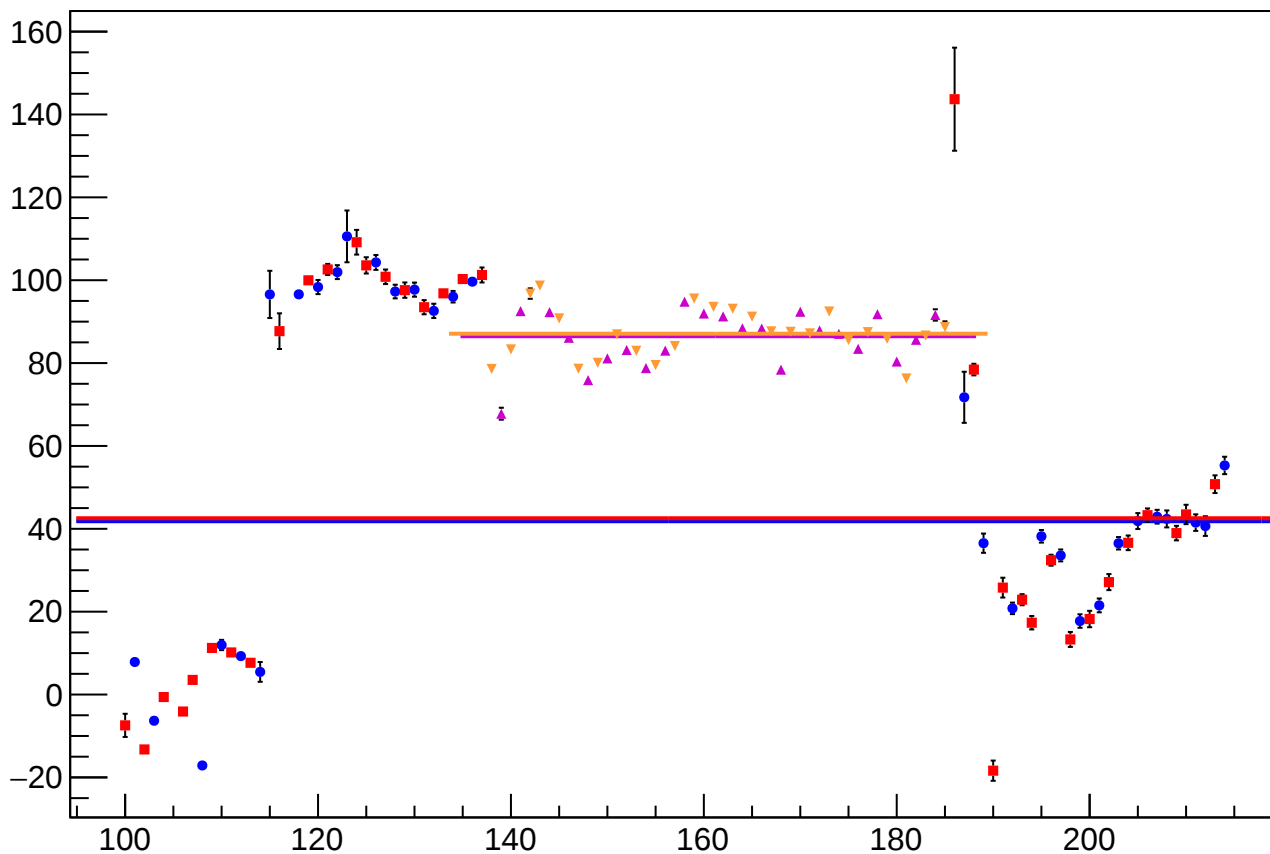
Right: 6.506 ± 0.169 χ^2/NDF : 1229.2/64

In: 10.976 ± 0.158 χ^2/NDF : 3192.9/53

Out: 10.256 ± 0.151 χ^2/NDF : 4081.7/58

All: 10.600 ± 0.109 χ^2/NDF : 7285.4/112

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.834 ± 0.257 $\chi^2/\text{NDF}: 25513.1/30$

Left Out: 87.087 ± 0.179 $\chi^2/\text{NDF}: 1085.8/24$

Right Out: 42.547 ± 0.246 $\chi^2/\text{NDF}: 30776.2/33$

Left In: 86.482 ± 0.185 $\chi^2/\text{NDF}: 1003.2/22$

Left: 86.794 ± 0.129 $\chi^2/\text{NDF}: 2094.5/47$

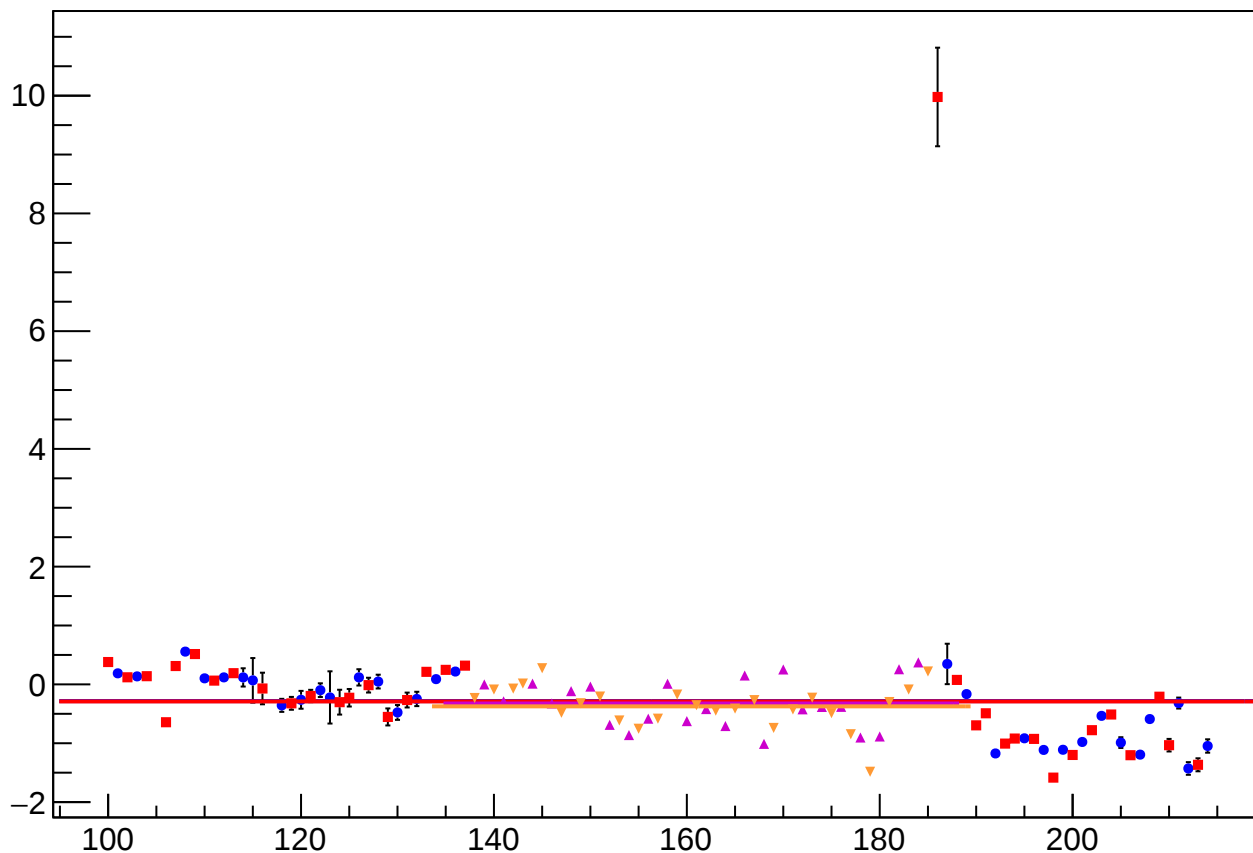
Right: 42.207 ± 0.178 $\chi^2/\text{NDF}: 56293.4/64$

In: 71.315 ± 0.150 $\chi^2/\text{NDF}: 46384.6/53$

Out: 71.651 ± 0.145 $\chi^2/\text{NDF}: 53300.8/58$

All: 71.489 ± 0.104 $\chi^2/\text{NDF}: 99688.0/112$

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.284 ± 0.011 χ^2/NDF : 3354.9/30

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

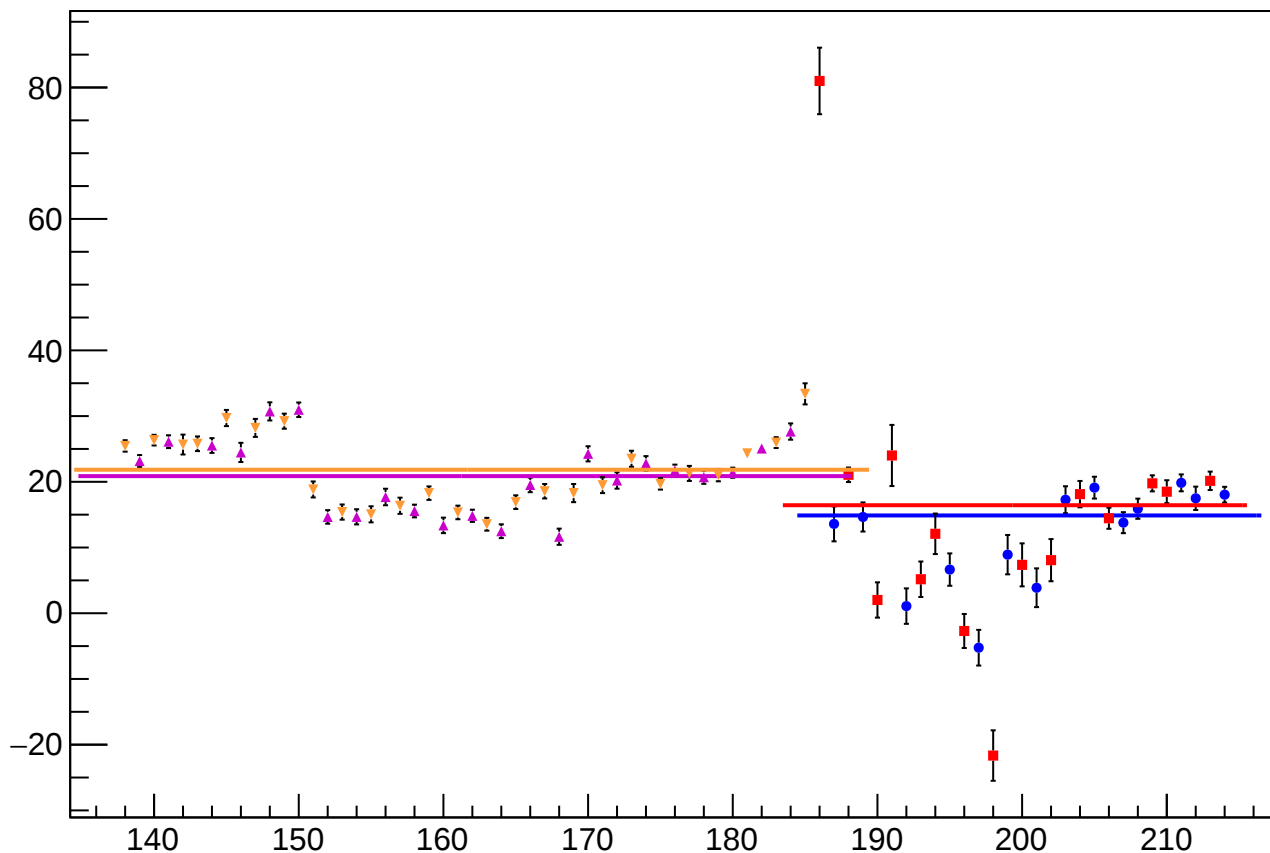
Right: -0.287 ± 0.007 χ^2/NDF : 7058.8/64

In: -0.310 ± 0.007 χ^2/NDF : 5648.3/53

Out: -0.340 ± 0.006 χ^2/NDF : 5414.5/58

All: -0.325 ± 0.005 χ^2/NDF : 11074.0/112

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.879 $\pm$ 0.497 χ^2 /NDF: 143.1/13

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

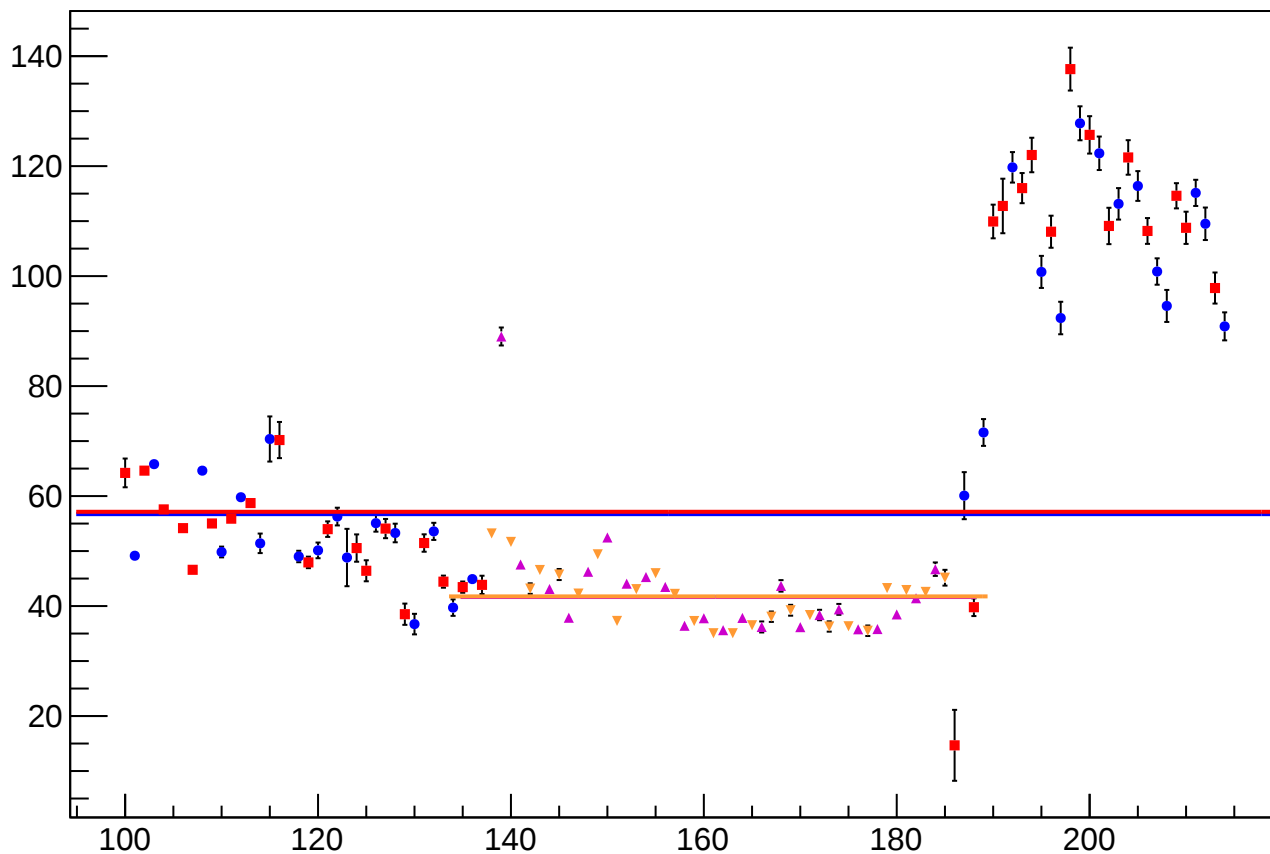
Right: 15.636 $\pm$ 0.356 χ^2 /NDF: 564.5/28

In: 19.910 $\pm$ 0.199 χ^2 /NDF:841.9/36

Out: 21.056 $\pm$ 0.194 χ^2 /NDF:1036.7/39

All: 20.496 $\pm$ 0.139 χ^2 /NDF: 1895.6/76

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 56.713+/-0.203 χ^2/NDF : 5915.7/30

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

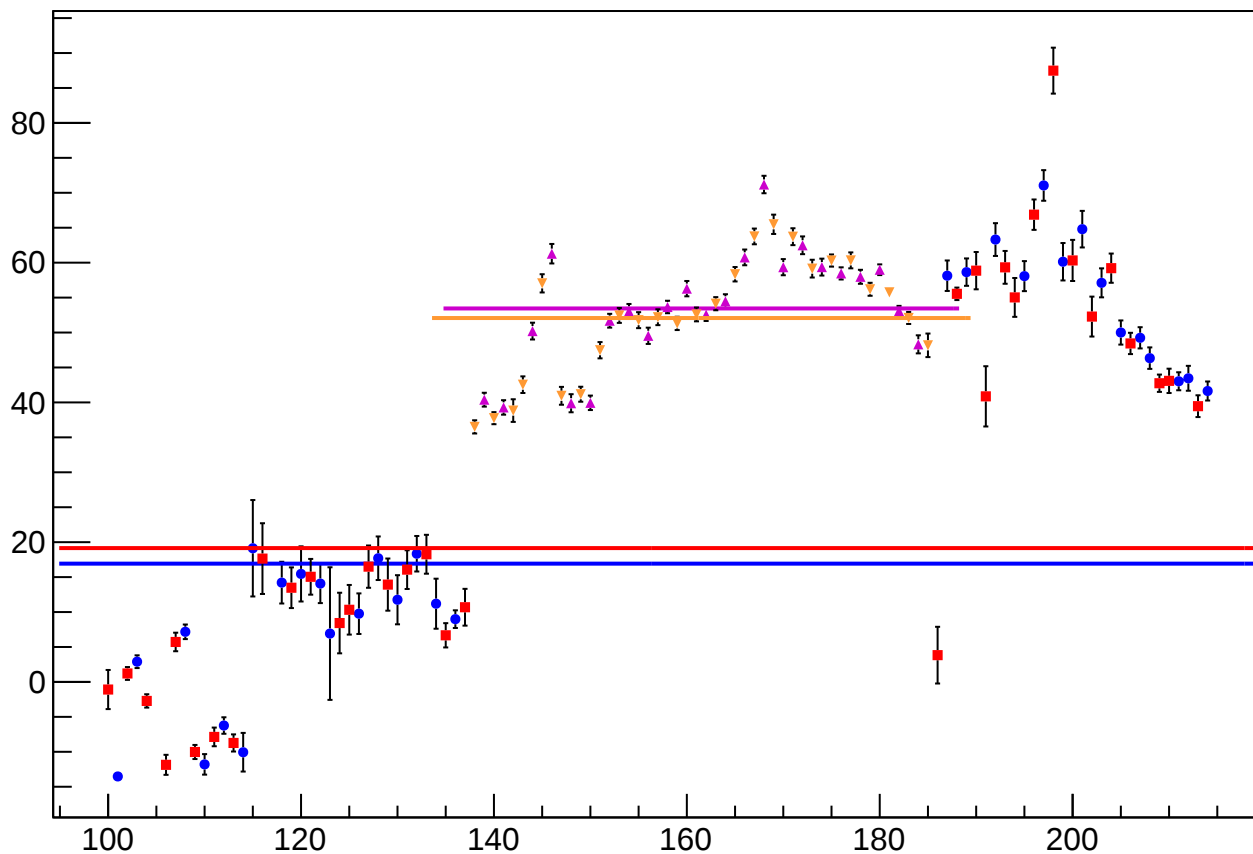
Right: 56.914+/-0.148 χ^2/NDF : 11977.3/64

In: 48.013+/-0.132 χ^2/NDF :10705.2/53

Out: 47.421+/-0.131 χ^2/NDF :10262.6/58

All: 47.716+/-0.093 χ^2/NDF : 20977.9/112

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 16.927 $\pm$ 0.292 χ^2 /NDF: 8936.1/30

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

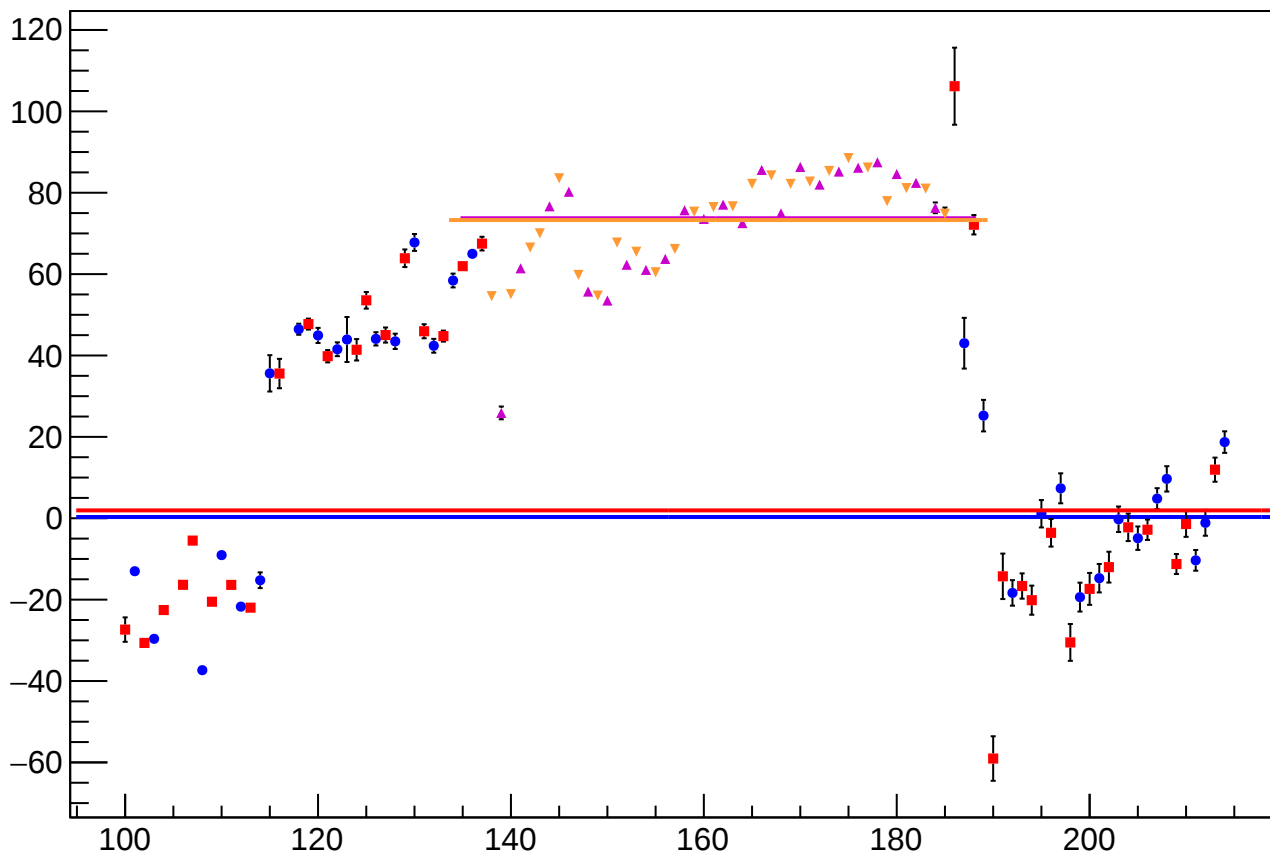
Right: 18.024 $\pm$ 0.208 χ^2 /NDF: 17422.9/64

In: 40.556 $\pm$ 0.173 χ^2 /NDF:20256.4/53

Out: 41.034 $\pm$ 0.171 χ^2 /NDF:18152.0/58

All: 40.798 $\pm$ 0.122 χ^2 /NDF: 38412.2/112

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.304+/-0.238 χ^2/NDF : 18478.1/30

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

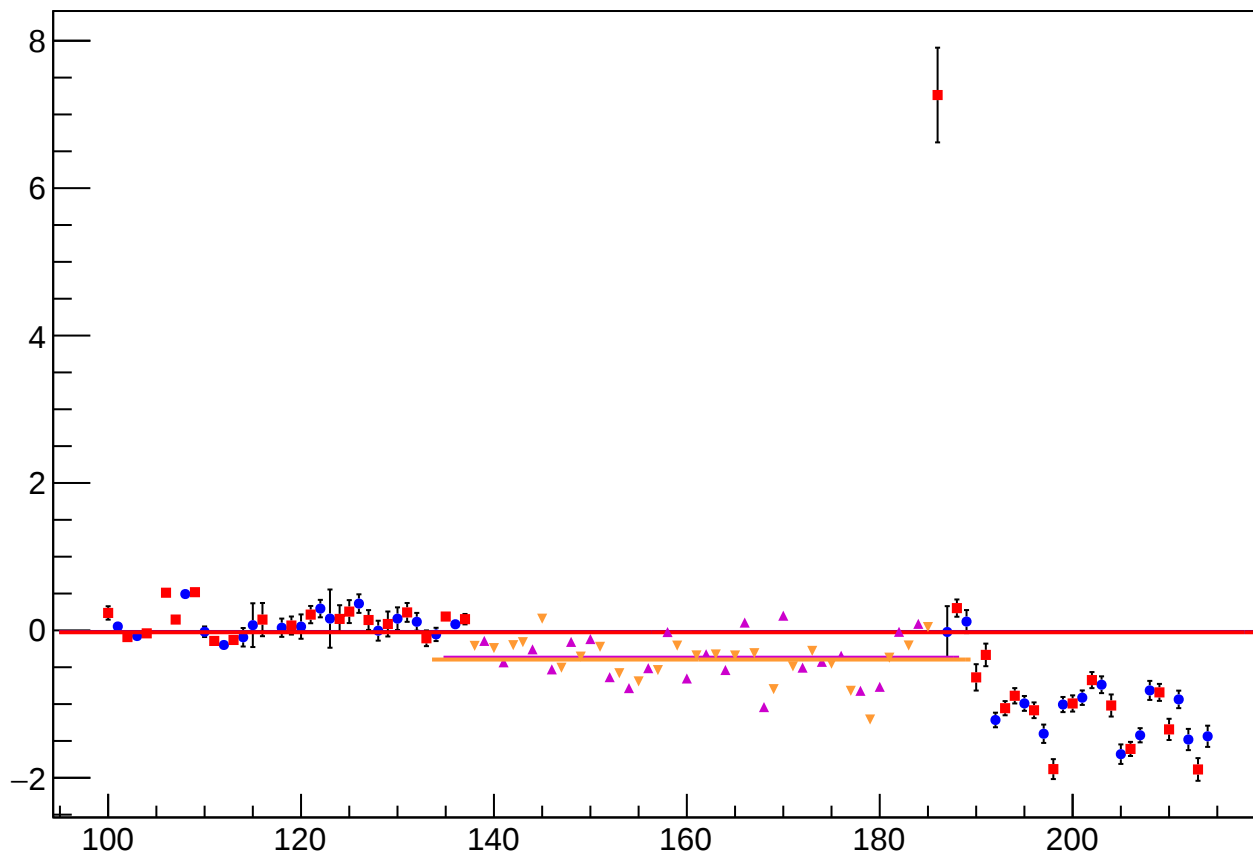
Right: 1.062+/-0.174 χ^2/NDF : 35246.7/64

In: 44.316+/-0.150 χ^2/NDF :79440.9/53

Out: 48.355+/-0.151 χ^2/NDF :70838.8/58

All: 46.332+/-0.106 χ^2/NDF : 150639.4/112

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.010 χ^2/NDF : 1770.5/30

Left Out: -0.396 ± 0.009 χ^2/NDF : 950.0/24

Right Out: -0.025 ± 0.010 χ^2/NDF : 1829.3/33

Left In: -0.371 ± 0.009 χ^2/NDF : 1313.7/22

Left: -0.383 ± 0.006 χ^2/NDF : 2268.0/47

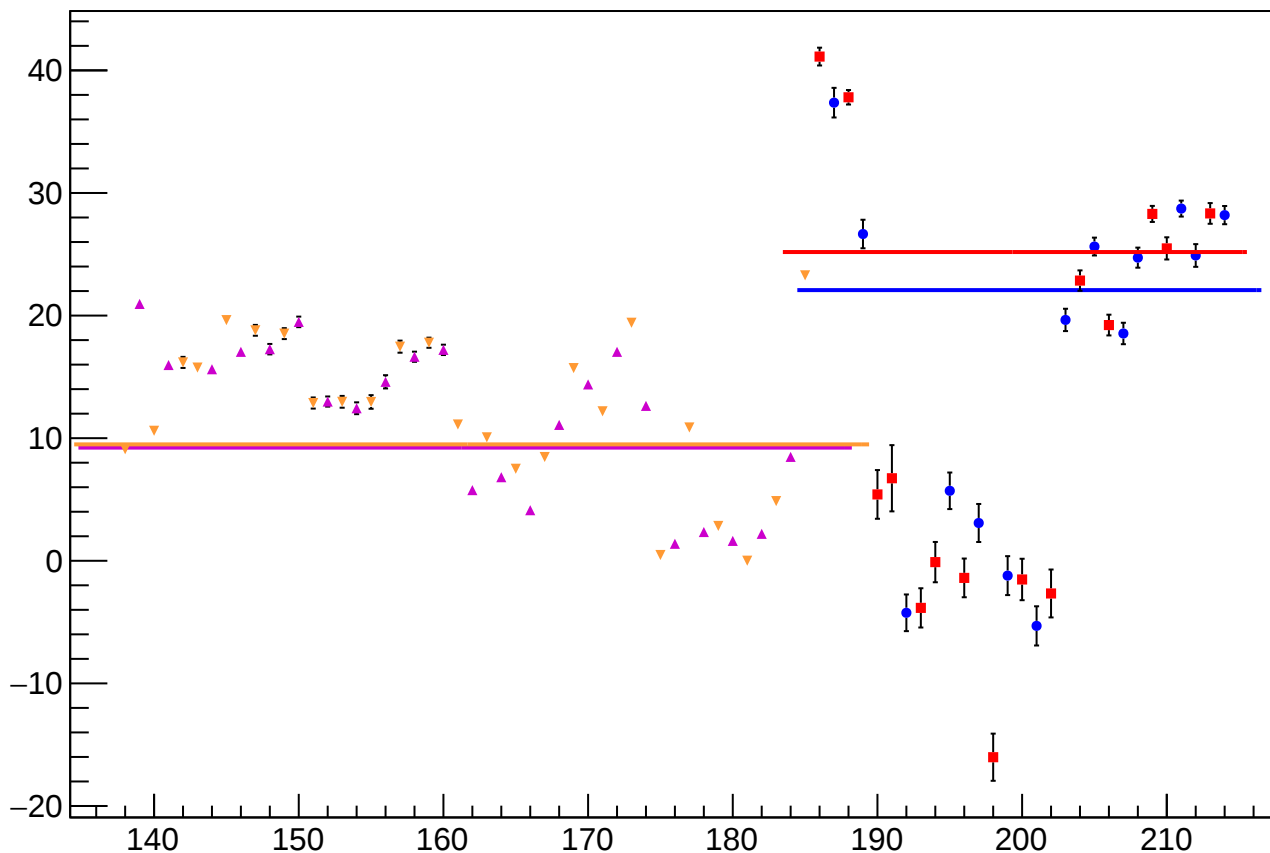
Right: -0.024 ± 0.007 χ^2/NDF : 3599.8/64

In: -0.227 ± 0.007 χ^2/NDF : 3743.5/53

Out: -0.247 ± 0.007 χ^2/NDF : 3534.8/58

All: -0.237 ± 0.005 χ^2/NDF : 7282.4/112

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 22.078 ± 0.260 $\chi^2/\text{NDF}: 1503.3/13$

Left Out: 9.495 ± 0.061 $\chi^2/\text{NDF}: 12609.1/24$

Right Out: 25.183 ± 0.258 $\chi^2/\text{NDF}: 2937.6/14$

Left In: 9.231 ± 0.063 $\chi^2/\text{NDF}: 10736.2/22$

Left: 9.367 ± 0.044 $\chi^2/\text{NDF}: 23354.3/47$

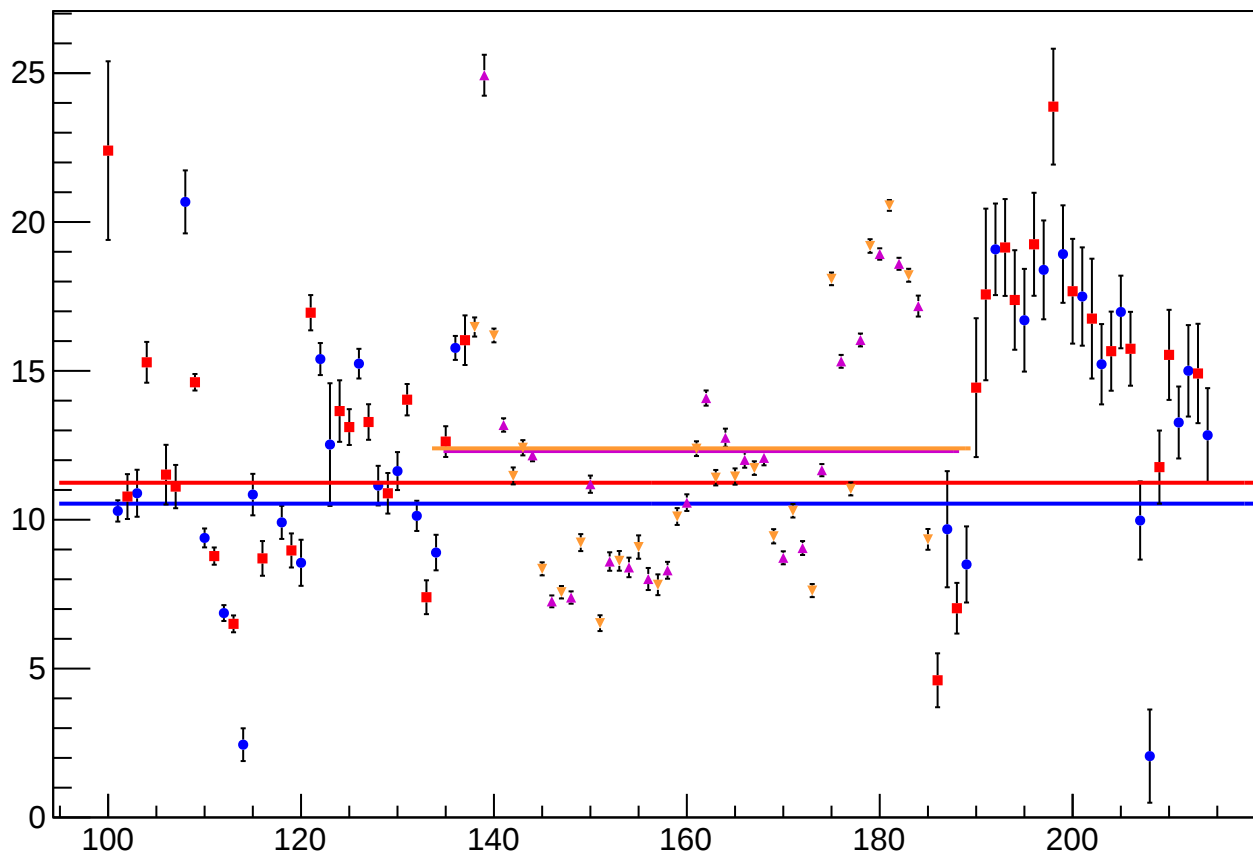
Right: 23.643 ± 0.183 $\chi^2/\text{NDF}: 4512.5/28$

In: 9.942 ± 0.061 $\chi^2/\text{NDF}: 14538.7/36$

Out: 10.330 ± 0.060 $\chi^2/\text{NDF}: 19039.5/39$

All: 10.141 ± 0.043 $\chi^2/\text{NDF}: 33598.8/76$

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.540 $\pm$ 0.114 χ^2 /NDF: 1069.9/30

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.242 $\pm$ 0.111 χ^2 /NDF: 1062.1/33

Left In: 12.307 $\pm$ 0.051 χ^2 /NDF: 5601.8/22

Left: 12.353 $\pm$ 0.036 χ^2 /NDF: 13146.3/47

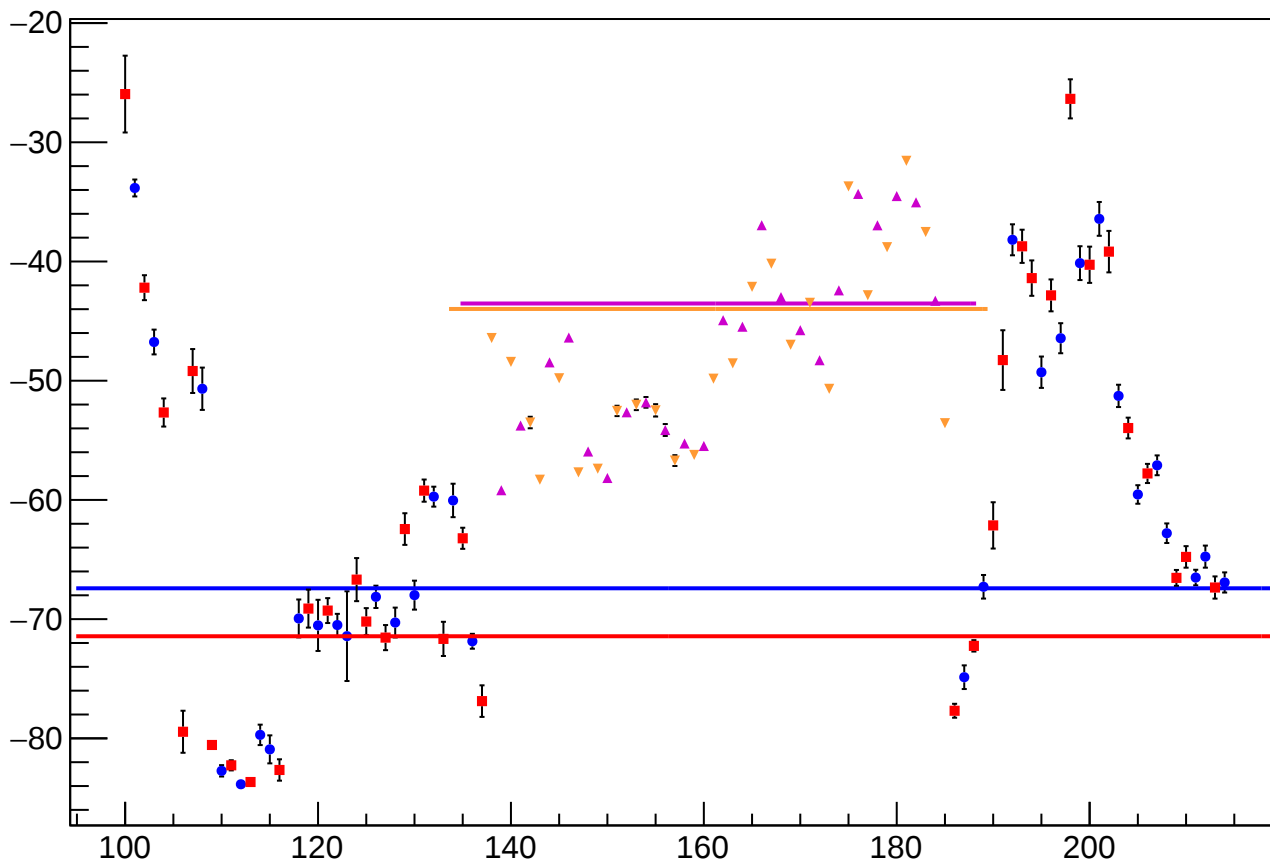
Right: 10.902 $\pm$ 0.080 χ^2 /NDF: 2151.4/64

In: 12.012 $\pm$ 0.047 χ^2 /NDF: 6870.2/53

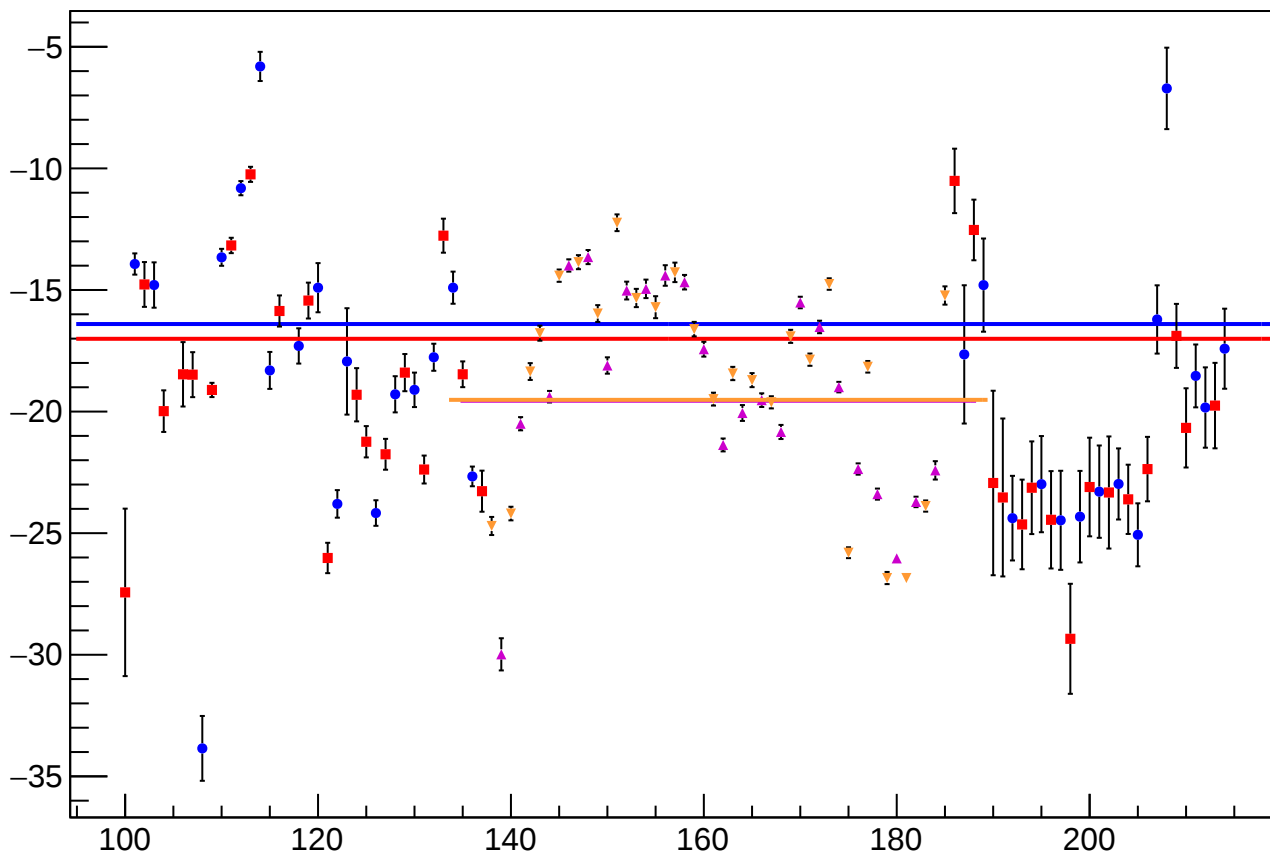
Out: 12.204 $\pm$ 0.045 χ^2 /NDF: 8695.0/58

All: 12.111 $\pm$ 0.033 χ^2 /NDF: 15573.9/112

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.400 ± 0.127 $\chi^2/\text{NDF}: 1811.8/30$

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 $\chi^2/\text{NDF}: 10829.6/47$

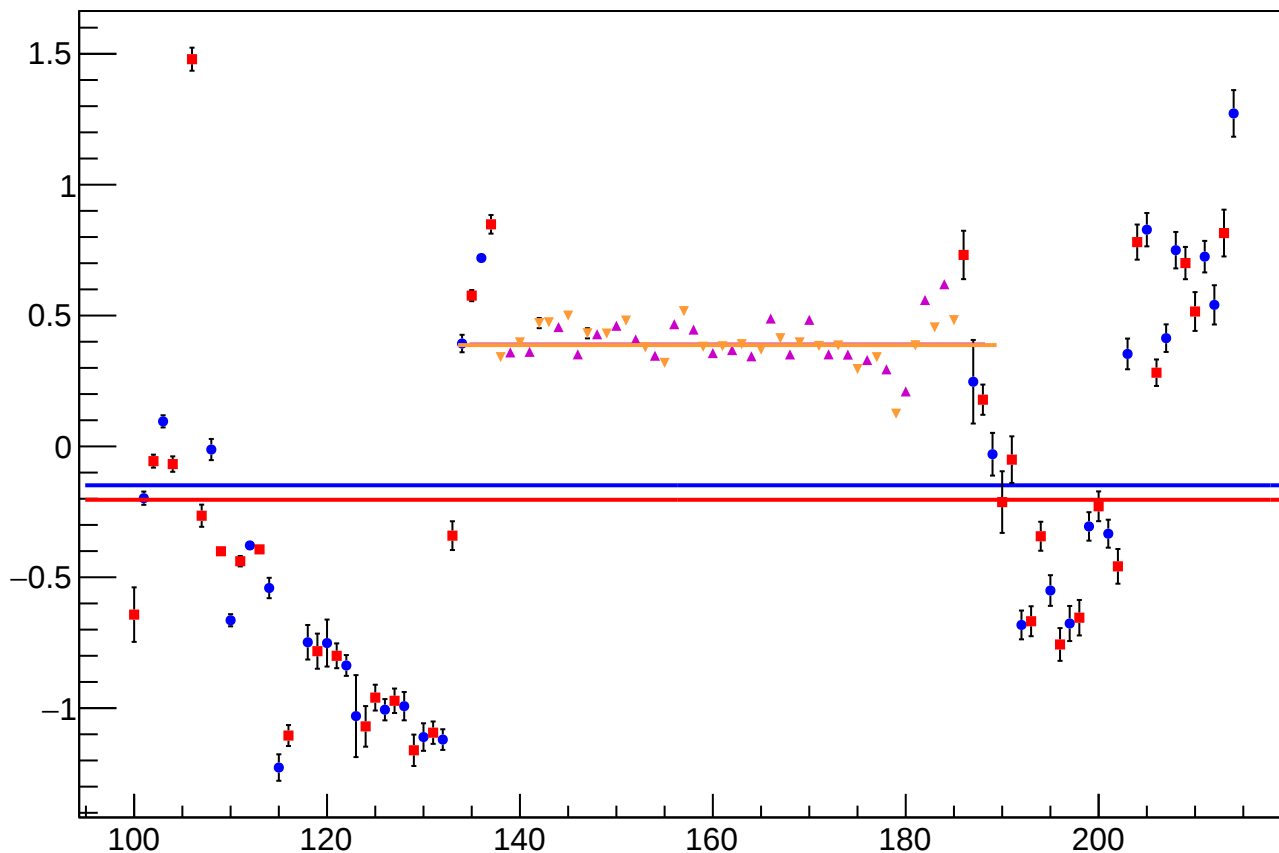
Right: -16.714 ± 0.089 $\chi^2/\text{NDF}: 3214.2/64$

In: -19.023 ± 0.052 $\chi^2/\text{NDF}: 6633.6/53$

Out: -19.090 ± 0.051 $\chi^2/\text{NDF}: 8253.5/58$

All: -19.058 ± 0.036 $\chi^2/\text{NDF}: 14888.0/112$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.149 ± 0.007 χ^2/NDF : 7723.7/30

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

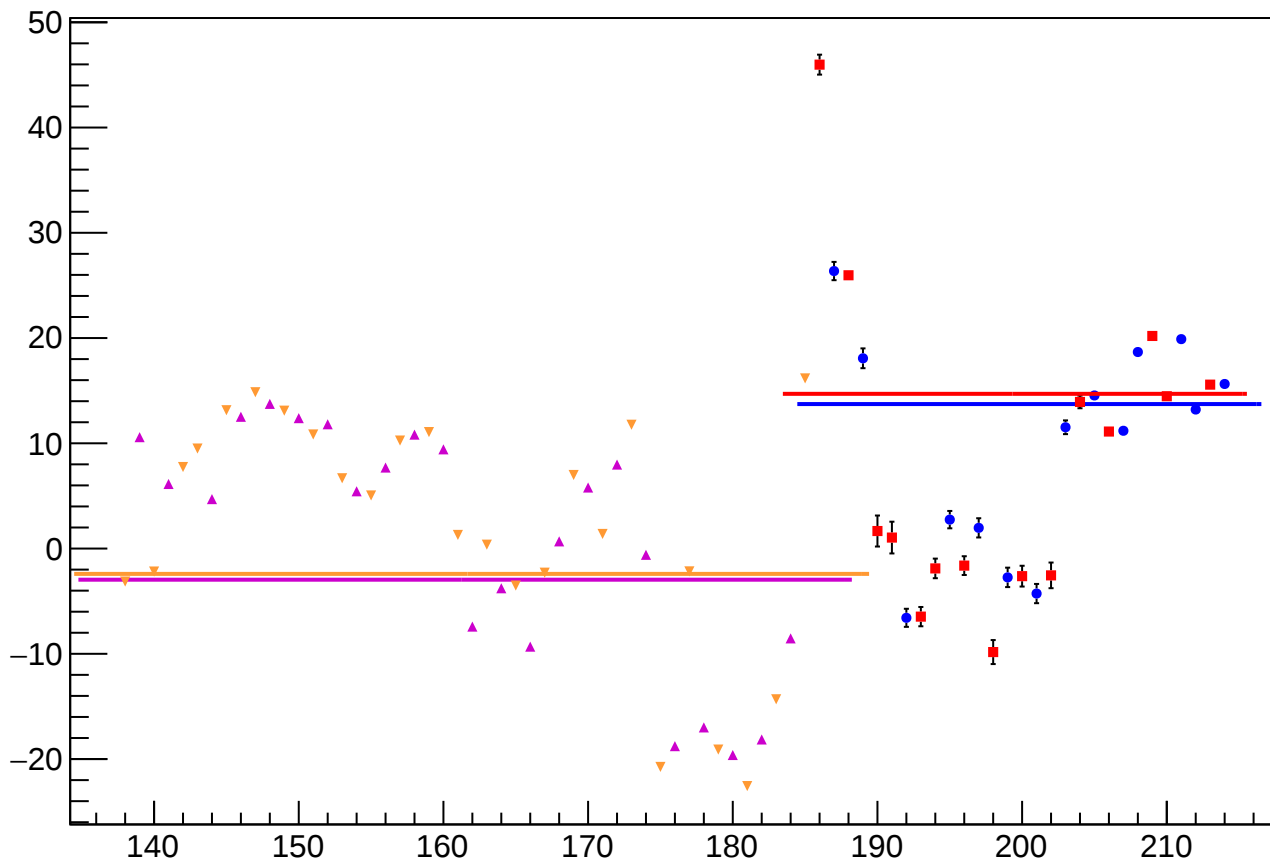
Right: -0.177 ± 0.005 χ^2/NDF : 15061.1/64

In: 0.322 ± 0.002 χ^2/NDF : 14268.3/53

Out: 0.310 ± 0.002 χ^2/NDF : 15231.9/58

All: 0.316 ± 0.002 χ^2/NDF : 29511.2/112

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.728 ± 0.146 $\chi^2/\text{NDF}: 2374.3/13$

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 $\chi^2/\text{NDF}: 102343.8/47$

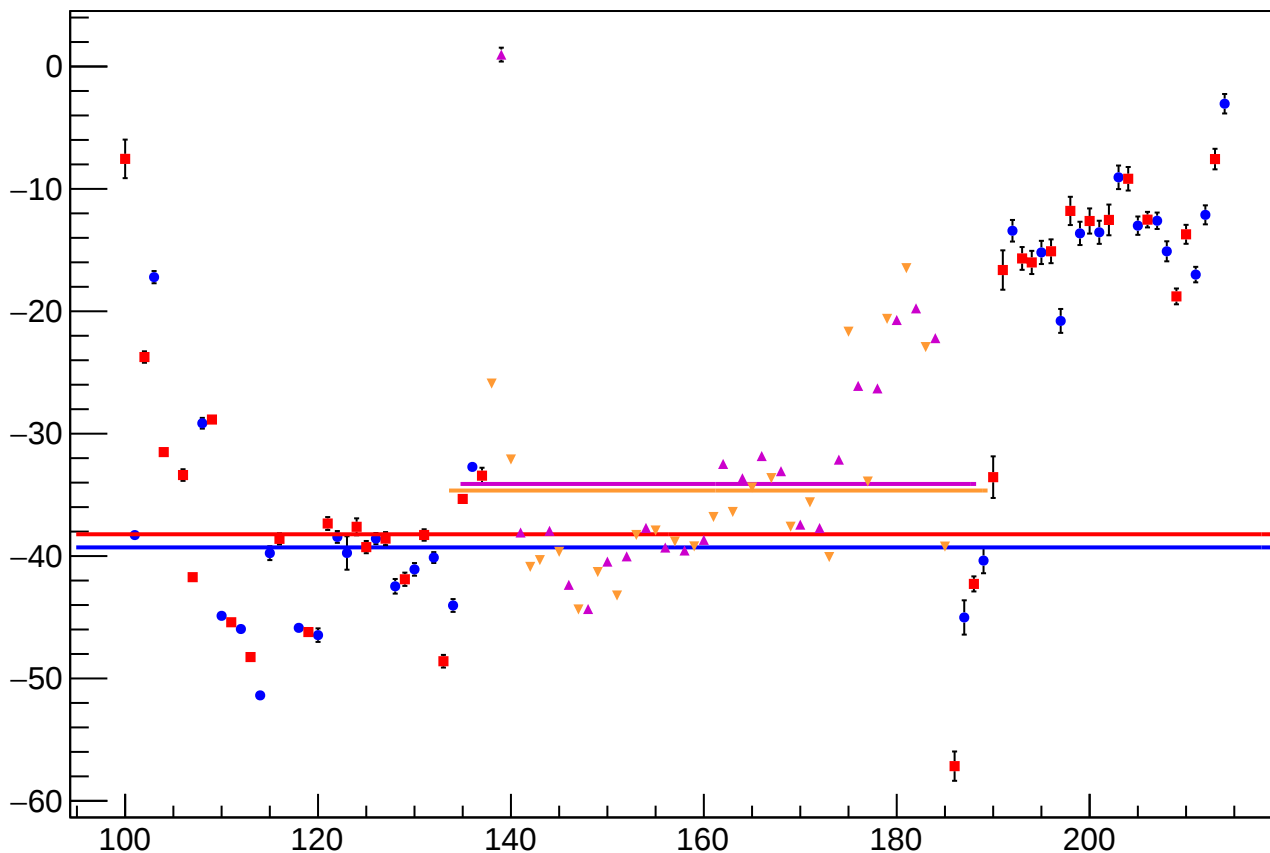
Right: 14.178 ± 0.107 $\chi^2/\text{NDF}: 6824.9/28$

In: -0.907 ± 0.051 $\chi^2/\text{NDF}: 59679.3/36$

Out: -0.681 ± 0.050 $\chi^2/\text{NDF}: 71397.4/39$

All: -0.791 ± 0.036 $\chi^2/\text{NDF}: 131086.6/76$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -39.292 ± 0.074 $\chi^2/\text{NDF}: 20444.1/30$

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 $\chi^2/\text{NDF}: 63806.0/47$

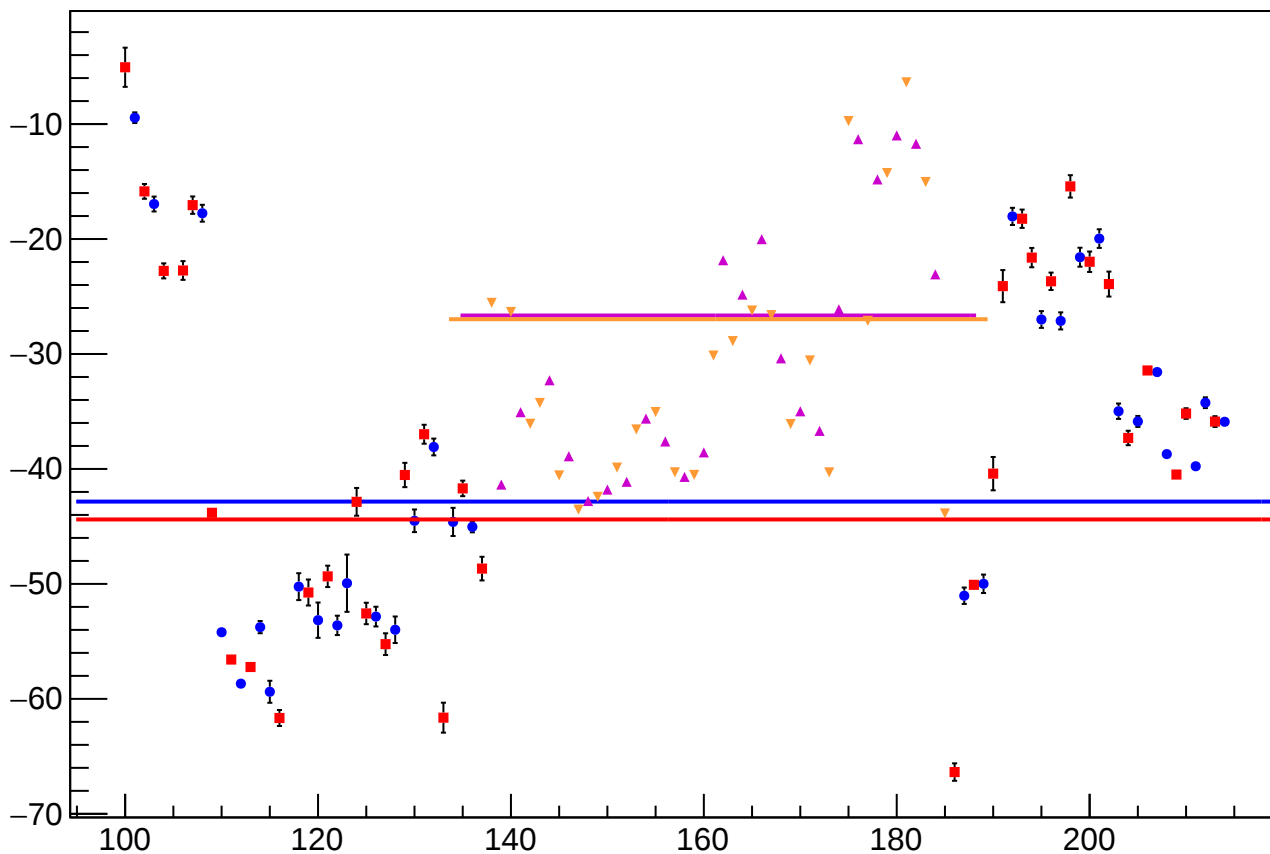
Right: -38.722 ± 0.051 $\chi^2/\text{NDF}: 42051.1/64$

In: -35.463 ± 0.038 $\chi^2/\text{NDF}: 53130.2/53$

Out: -35.595 ± 0.036 $\chi^2/\text{NDF}: 58113.8/58$

All: -35.533 ± 0.026 $\chi^2/\text{NDF}: 111250.5/112$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -42.839 $\pm$ 0.094 χ^2 /NDF: 22407.6/30

Left Out: -26.978 $\pm$ 0.053 χ^2 /NDF:49361.1/24

Right Out: -44.394 $\pm$ 0.087 χ^2 /NDF: 20659.0/33

Left In: -26.654 $\pm$ 0.055 χ^2 /NDF:42106.8/22

Left: -26.821 $\pm$ 0.038 χ^2 /NDF: 91485.8/47

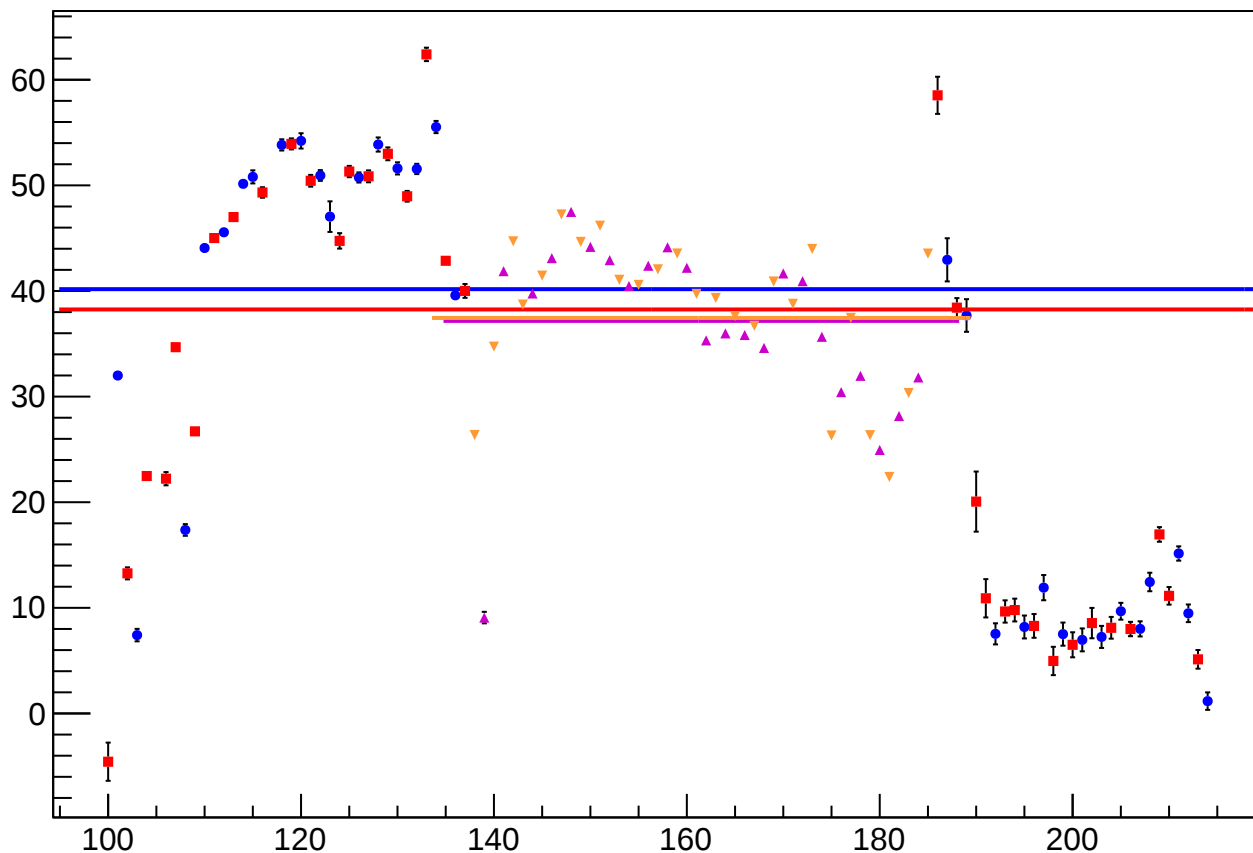
Right: -43.678 $\pm$ 0.064 χ^2 /NDF: 43213.1/64

In: -30.751 $\pm$ 0.047 χ^2 /NDF:86489.8/53

Out: -31.707 $\pm$ 0.045 χ^2 /NDF:99131.7/58

All: -31.250 $\pm$ 0.033 χ^2 /NDF: 185833.0/112

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 40.173 $\pm$ 0.082 χ^2 /NDF: 26956.6/30

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

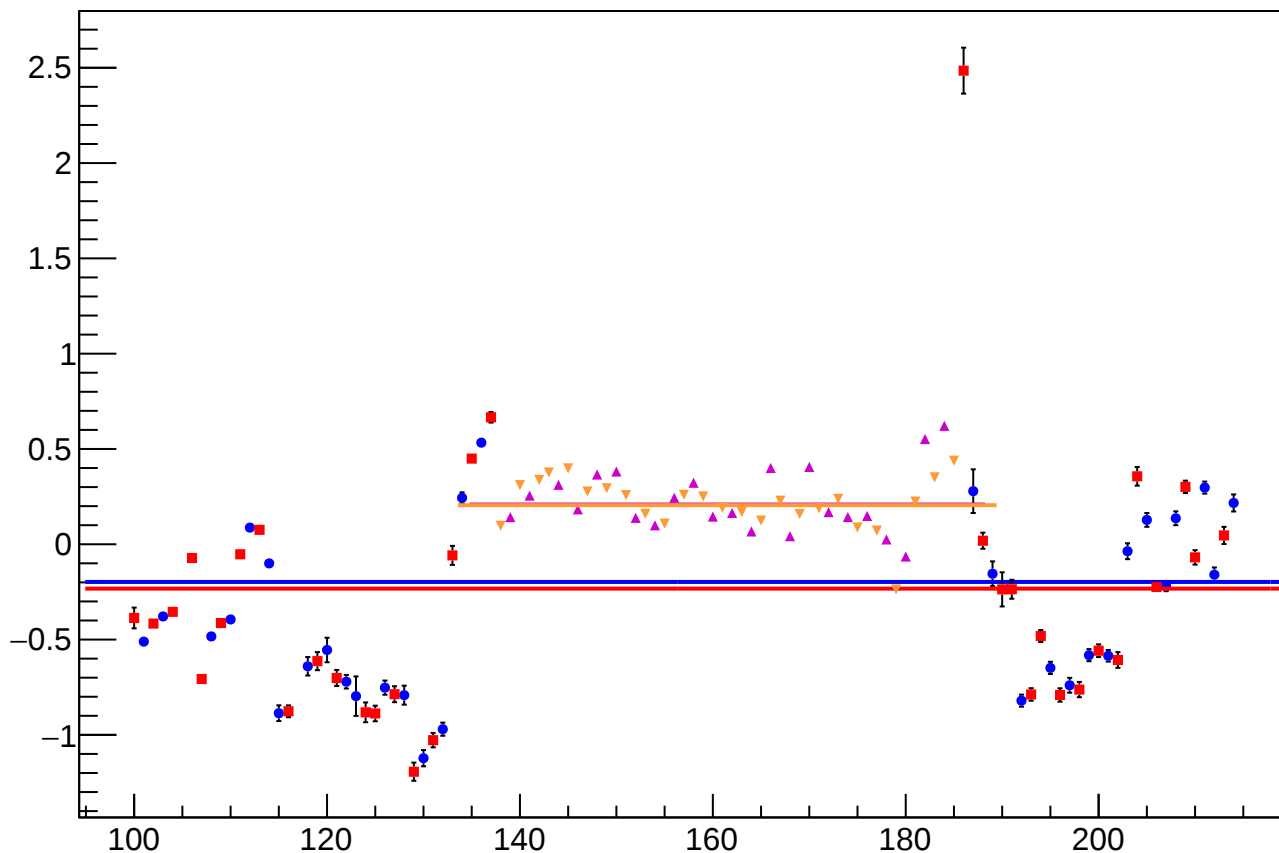
Right: 39.146 $\pm$ 0.056 χ^2 /NDF: 56185.2/64

In: 37.962 $\pm$ 0.042 χ^2 /NDF:45174.5/53

Out: 37.667 $\pm$ 0.040 χ^2 /NDF:50587.7/58

All: 37.807 $\pm$ 0.029 χ^2 /NDF: 95787.7/112

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.198 ± 0.004 χ^2/NDF : 8988.2/30

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

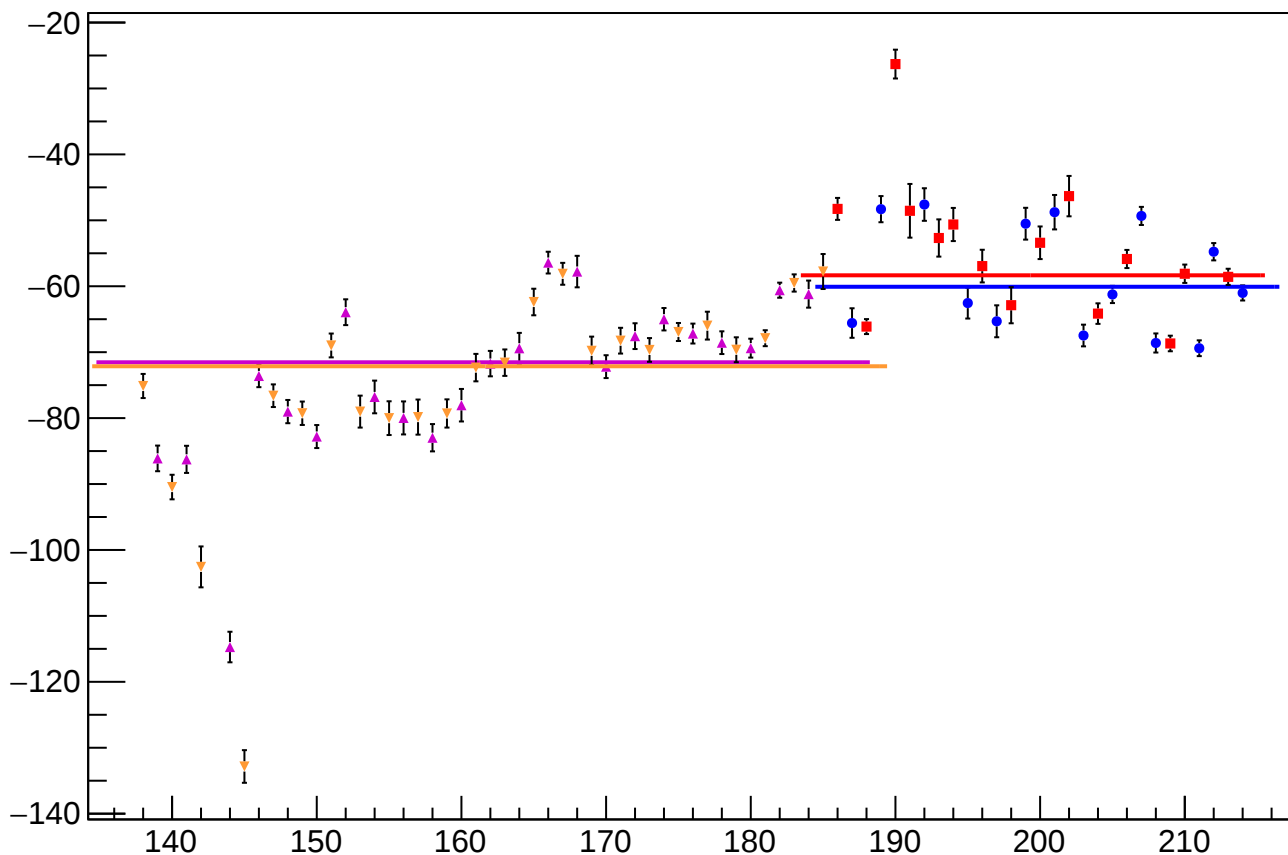
Right: -0.217 ± 0.003 χ^2/NDF : 18421.8/64

In: 0.122 ± 0.002 χ^2/NDF : 21005.0/53

Out: 0.103 ± 0.002 χ^2/NDF : 22649.2/58

All: 0.112 ± 0.001 χ^2/NDF : 43702.6/112

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected

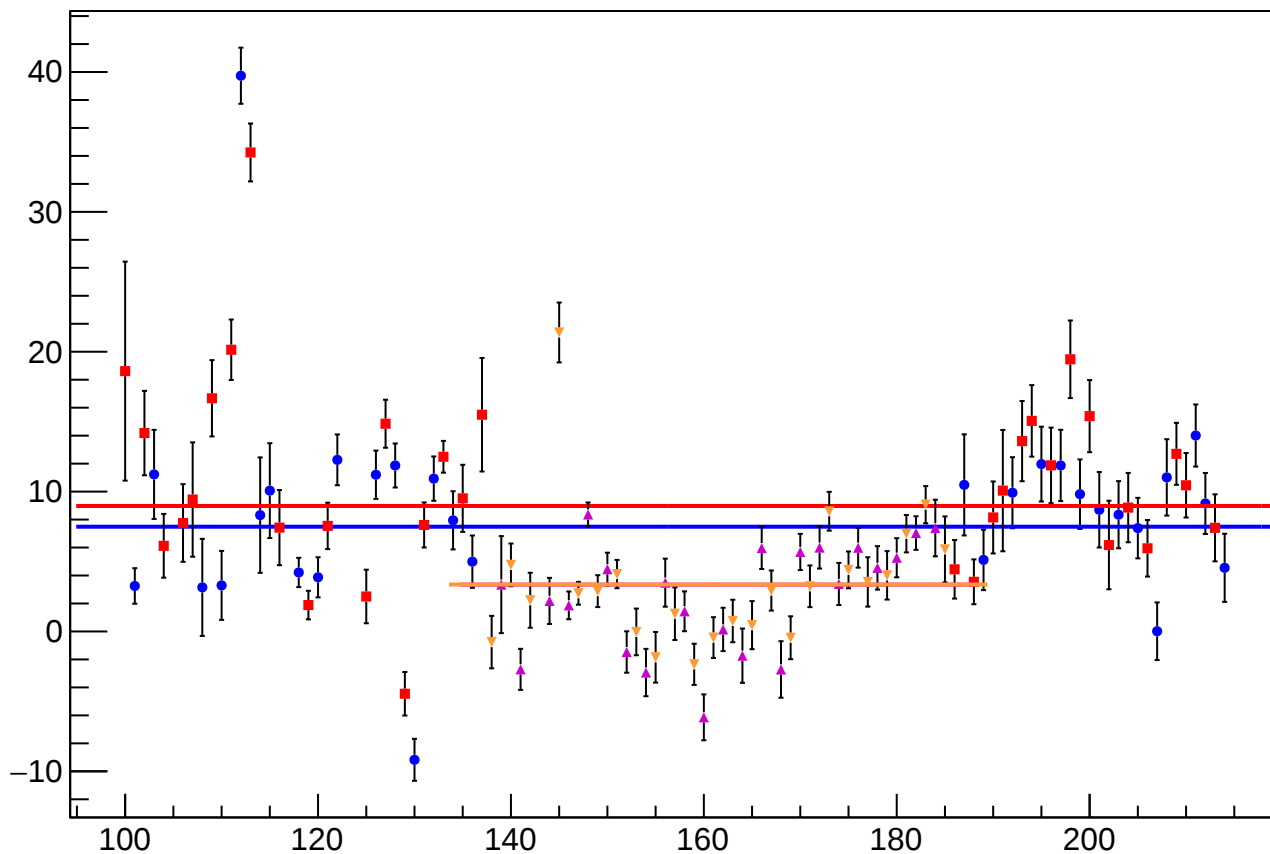


Right In: -60.078 $\pm$ 0.435 χ^2 /NDF: 301.6/13
 Left Out: -72.138 $\pm$ 0.383 χ^2 /NDF:1121.3/23
 Right Out: -58.340 $\pm$ 0.443 χ^2 /NDF: 433.7/14
 Left In: -71.534 $\pm$ 0.382 χ^2 /NDF:851.4/22

Left: -71.835 $\pm$ 0.270 χ^2 /NDF: 1974.0/46
 Right: -59.226 $\pm$ 0.310 χ^2 /NDF: 743.2/28
 In: -66.548 $\pm$ 0.287 χ^2 /NDF:1545.1/36
 Out: -66.241 $\pm$ 0.290 χ^2 /NDF:2110.2/38

All: -66.396 $\pm$ 0.204 χ^2 /NDF: 3655.8/75

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.491 $\pm$ 0.364 χ^2 /NDF: 476.4/29

Left Out: 3.357 $\pm$ 0.295 χ^2 /NDF:167.7/23

Right Out: 8.973 $\pm$ 0.364 χ^2 /NDF: 402.7/32

Left In: 3.349 $\pm$ 0.298 χ^2 /NDF:163.5/22

Left: 3.353 $\pm$ 0.210 χ^2 /NDF: 331.2/46

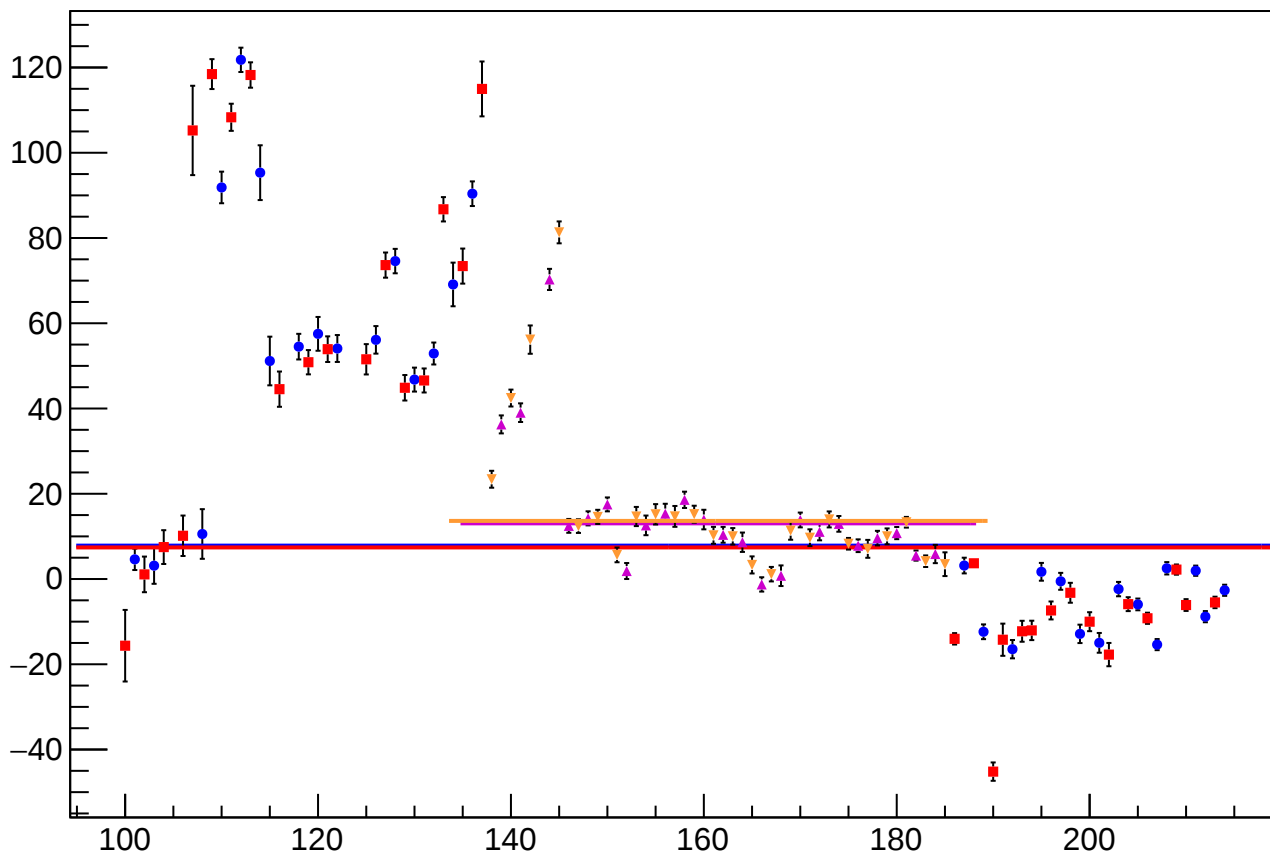
Right: 8.233 $\pm$ 0.257 χ^2 /NDF: 887.4/62

In: 5.011 $\pm$ 0.231 χ^2 /NDF:717.4/52

Out: 5.583 $\pm$ 0.229 χ^2 /NDF:714.2/56

All: 5.299 $\pm$ 0.163 χ^2 /NDF: 1434.7/109

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.833 ± 0.379 $\chi^2/\text{NDF}: 6391.2/29$

Left Out: 13.632 ± 0.382 $\chi^2/\text{NDF}: 1300.0/23$

Right Out: 7.410 ± 0.371 $\chi^2/\text{NDF}: 8051.2/32$

Left In: 13.058 ± 0.380 $\chi^2/\text{NDF}: 1024.7/22$

Left: 13.344 ± 0.269 $\chi^2/\text{NDF}: 2325.9/46$

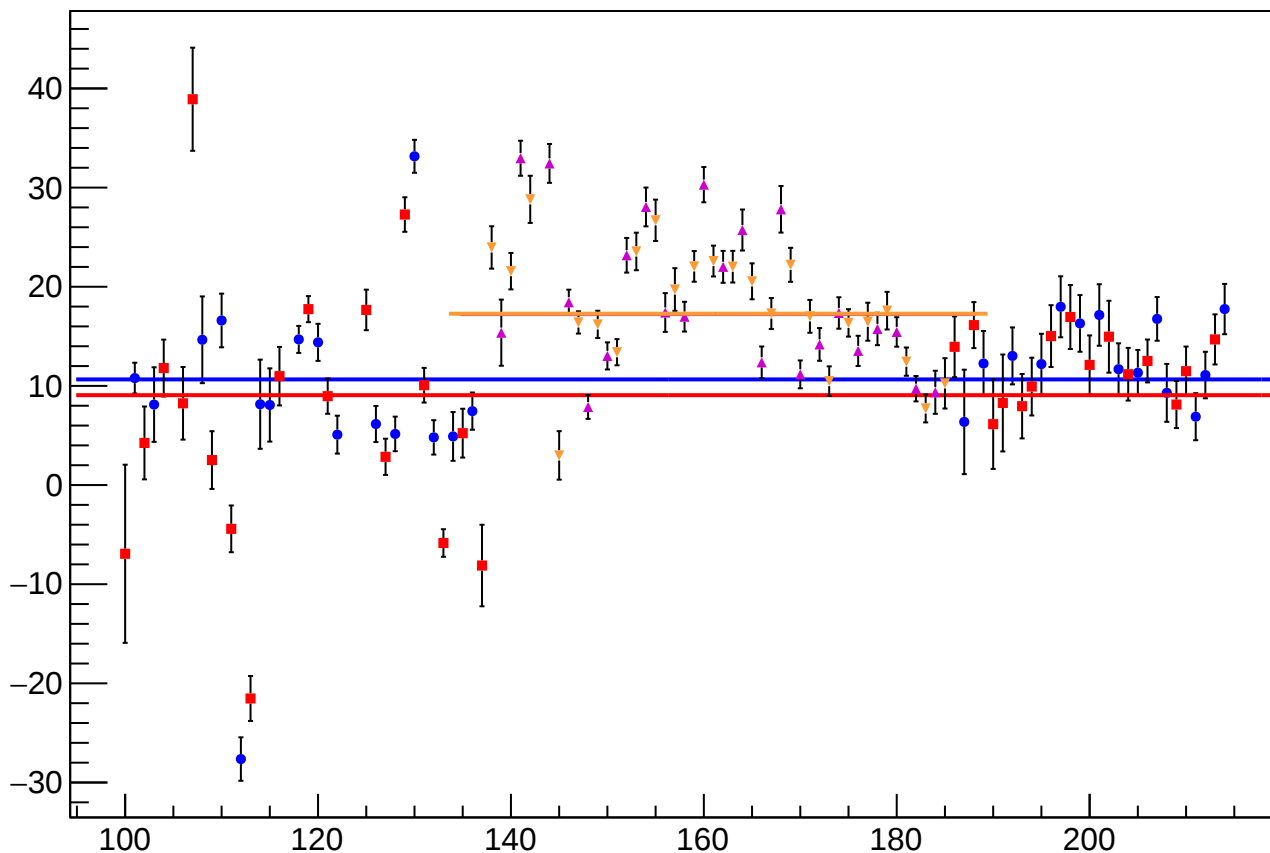
Right: 7.616 ± 0.265 $\chi^2/\text{NDF}: 14443.1/62$

In: 10.441 ± 0.268 $\chi^2/\text{NDF}: 7510.7/52$

Out: 10.430 ± 0.266 $\chi^2/\text{NDF}: 9487.9/56$

All: 10.436 ± 0.189 $\chi^2/\text{NDF}: 16998.7/109$

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.654+/-0.417 χ^2/NDF : 586.7/29

Left Out: 17.280+/-0.337 χ^2/NDF : 243.9/23

Right Out: 9.065+/-0.423 χ^2/NDF : 611.4/32

Left In: 17.245+/-0.339 χ^2/NDF : 440.8/22

Left: 17.262+/-0.239 χ^2/NDF : 684.6/46

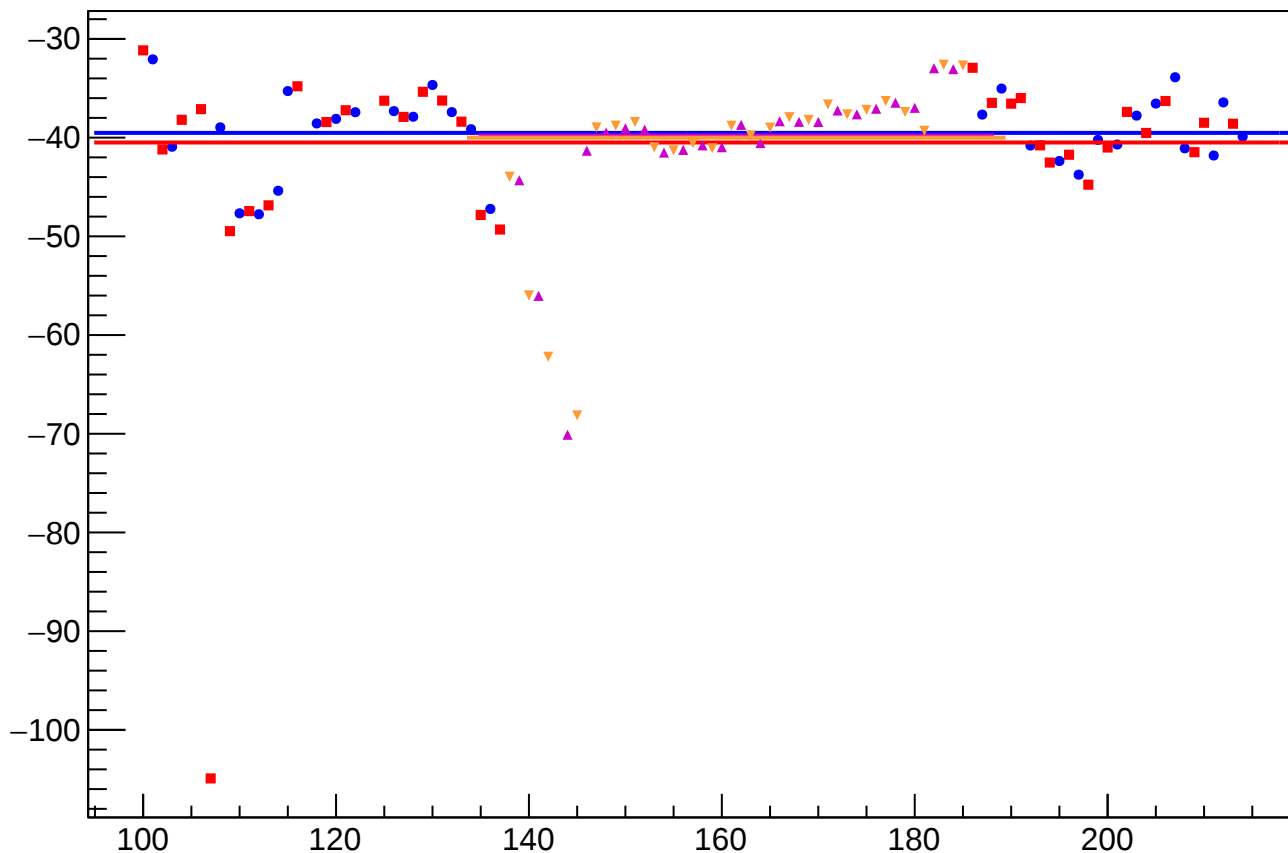
Right: 9.870+/-0.297 χ^2/NDF : 1205.3/62

In: 14.621+/-0.263 χ^2/NDF : 1177.6/52

Out: 14.088+/-0.264 χ^2/NDF : 1086.0/56

All: 14.354+/-0.186 χ^2/NDF : 2265.7/109

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.518 ± 0.021 χ^2/NDF : 37770.7/29

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

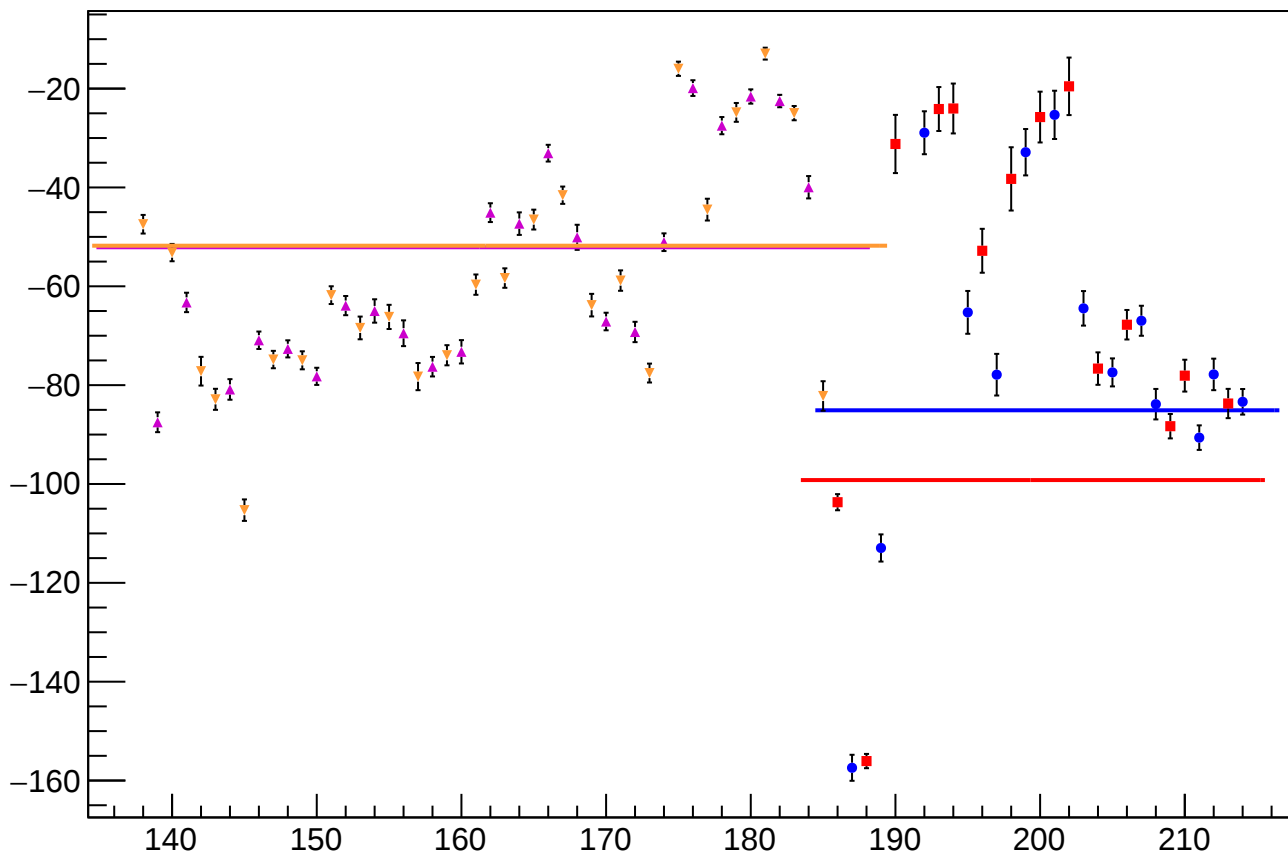
Right: -40.009 ± 0.015 χ^2/NDF : 146222.3/62

In: -39.688 ± 0.012 χ^2/NDF : 182370.7/52

Out: -40.182 ± 0.012 χ^2/NDF : 279962.9/56

All: -39.934 ± 0.009 χ^2/NDF : 463115.1/109

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -85.088 ± 0.859 $\chi^2/\text{NDF}: 1411.3/13$

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 $\chi^2/\text{NDF}: 7445.3/47$

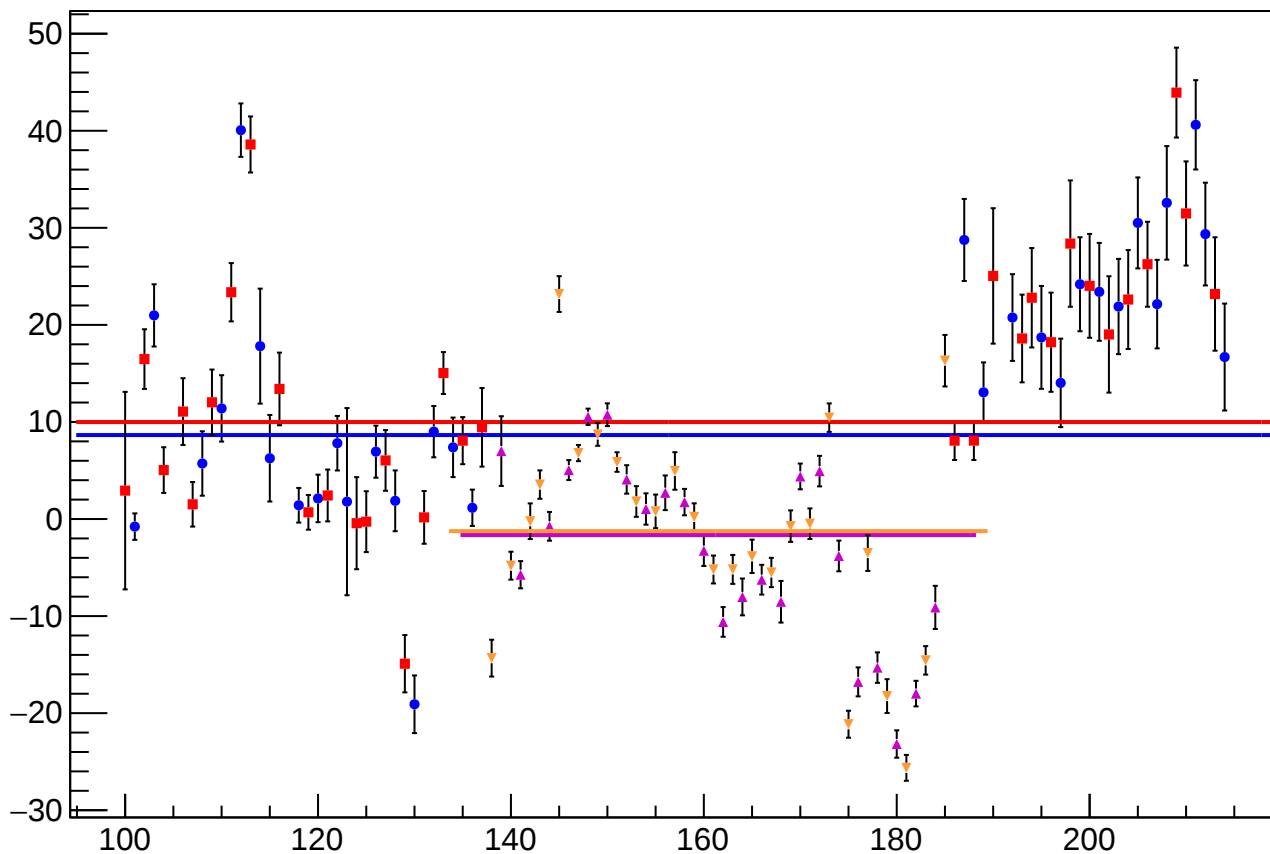
Right: -92.929 ± 0.573 $\chi^2/\text{NDF}: 4595.2/27$

In: -57.713 ± 0.354 $\chi^2/\text{NDF}: 5916.2/36$

Out: -61.212 ± 0.342 $\chi^2/\text{NDF}: 10251.3/38$

All: -59.521 ± 0.246 $\chi^2/\text{NDF}: 16218.0/75$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.650 ± 0.560 $\chi^2/\text{NDF}: 505.7/30$

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 $\chi^2/\text{NDF}: 2415.8/47$

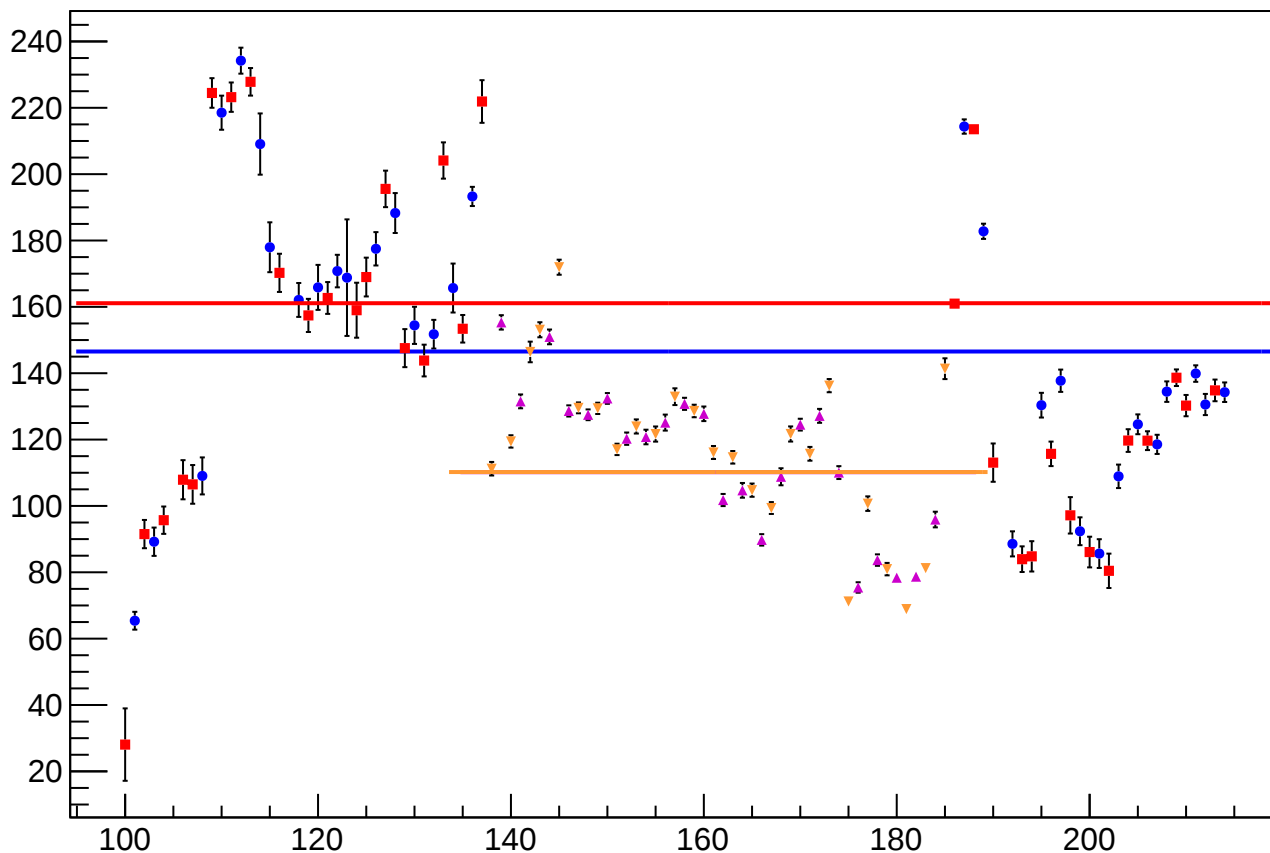
Right: 9.332 ± 0.393 $\chi^2/\text{NDF}: 924.3/63$

In: 0.648 ± 0.265 $\chi^2/\text{NDF}: 1860.6/53$

Out: 1.214 ± 0.258 $\chi^2/\text{NDF}: 2063.1/57$

All: 0.938 ± 0.185 $\chi^2/\text{NDF}: 3926.1/111$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 146.546 $\pm$ 0.661 χ^2 /NDF: 4485.6/30

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

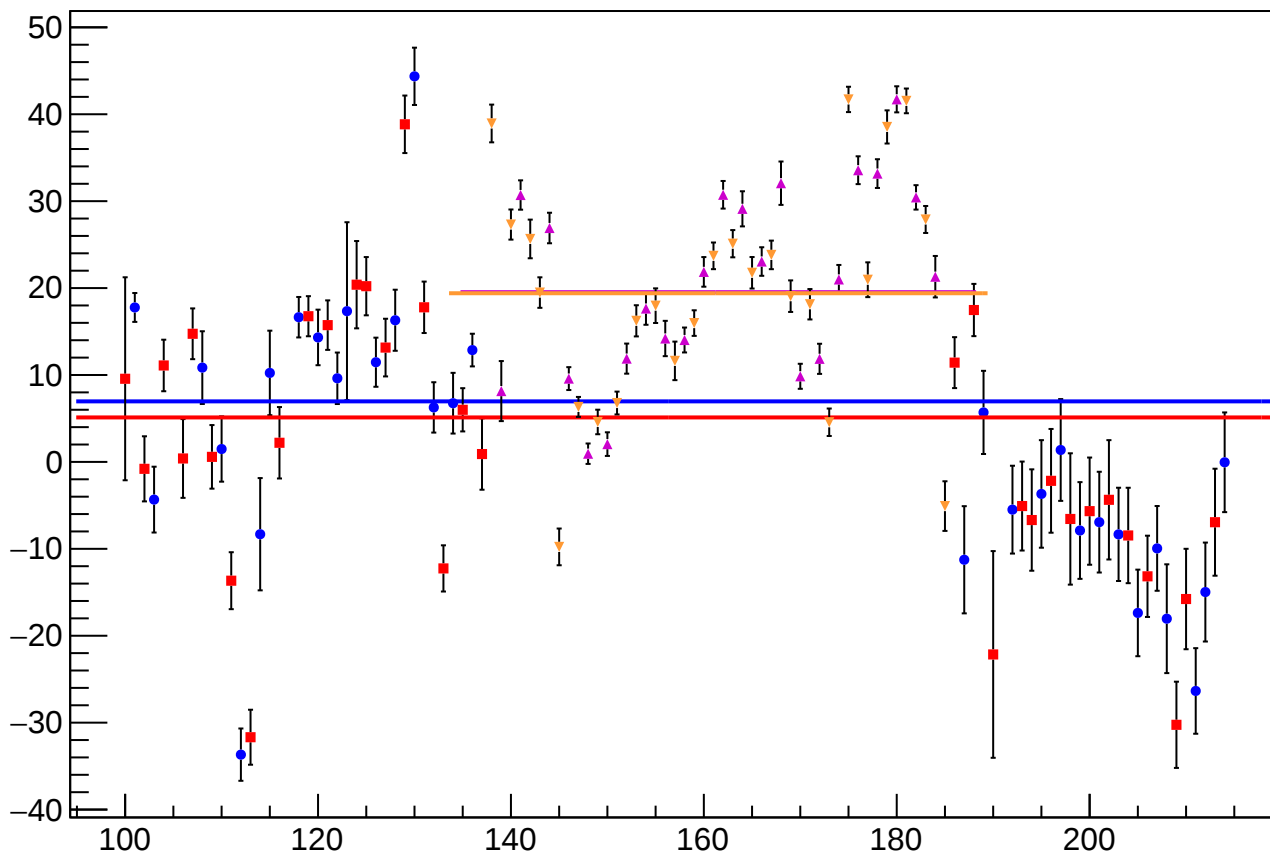
Right: 154.735 $\pm$ 0.437 χ^2 /NDF: 10646.8/63

In: 119.424 $\pm$ 0.333 χ^2 /NDF:10447.4/53

Out: 125.514 $\pm$ 0.319 χ^2 /NDF:15816.7/57

All: 122.598 $\pm$ 0.231 χ^2 /NDF: 26438.1/111

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.966 $\pm$ 0.646 χ^2/NDF : 569.2/30

Left Out: 19.405 $\pm$ 0.335 χ^2/NDF :1453.4/24

Right Out: 5.117 $\pm$ 0.652 χ^2/NDF : 562.6/32

Left In: 19.530 $\pm$ 0.342 χ^2/NDF :1181.3/22

Left: 19.466 $\pm$ 0.239 χ^2/NDF : 2634.8/47

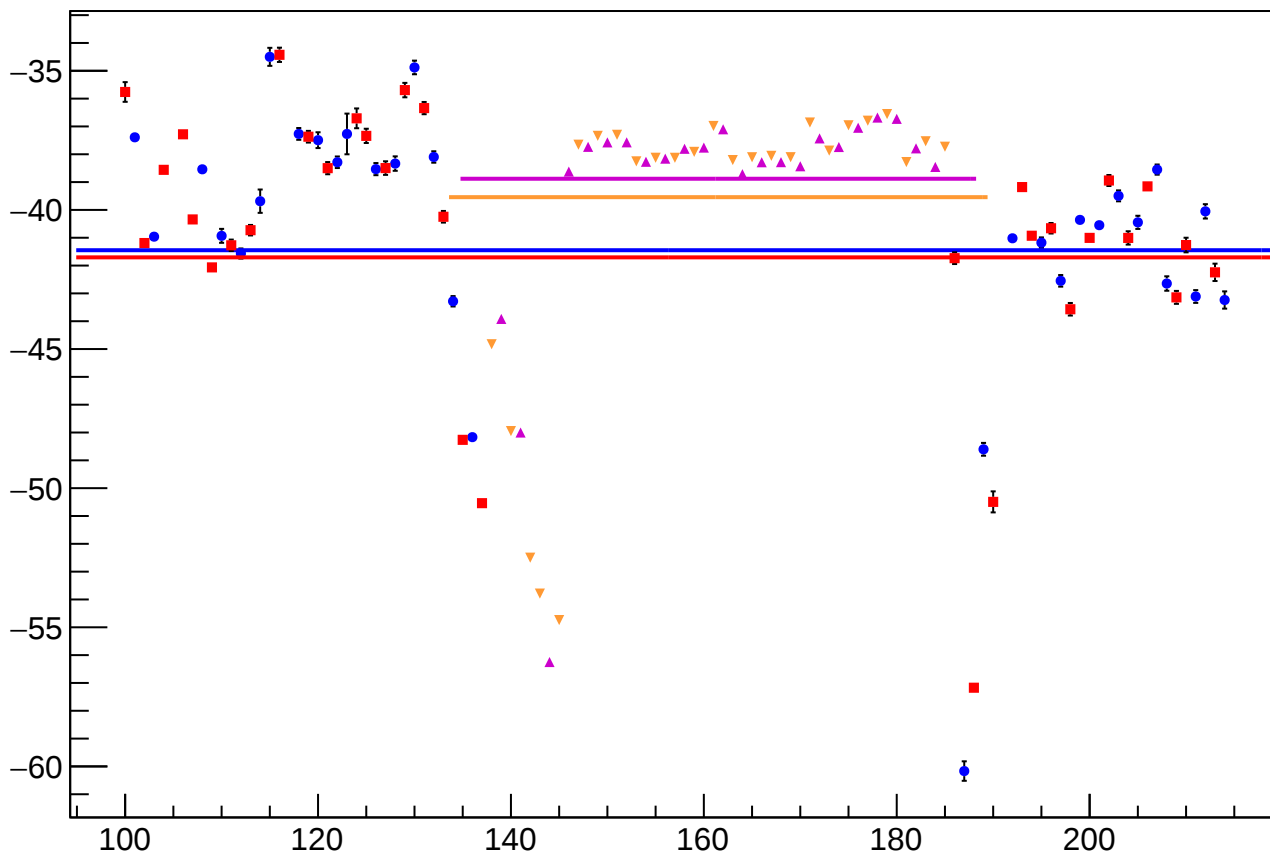
Right: 6.050 $\pm$ 0.459 χ^2/NDF : 1135.9/63

In: 16.773 $\pm$ 0.303 χ^2/NDF :2045.9/53

Out: 16.423 $\pm$ 0.298 χ^2/NDF :2396.4/57

All: 16.595 $\pm$ 0.212 χ^2/NDF : 4443.0/111

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.448 ± 0.032 $\chi^2/\text{NDF}: 16956.4/30$

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 $\chi^2/\text{NDF}: 146312.0/47$

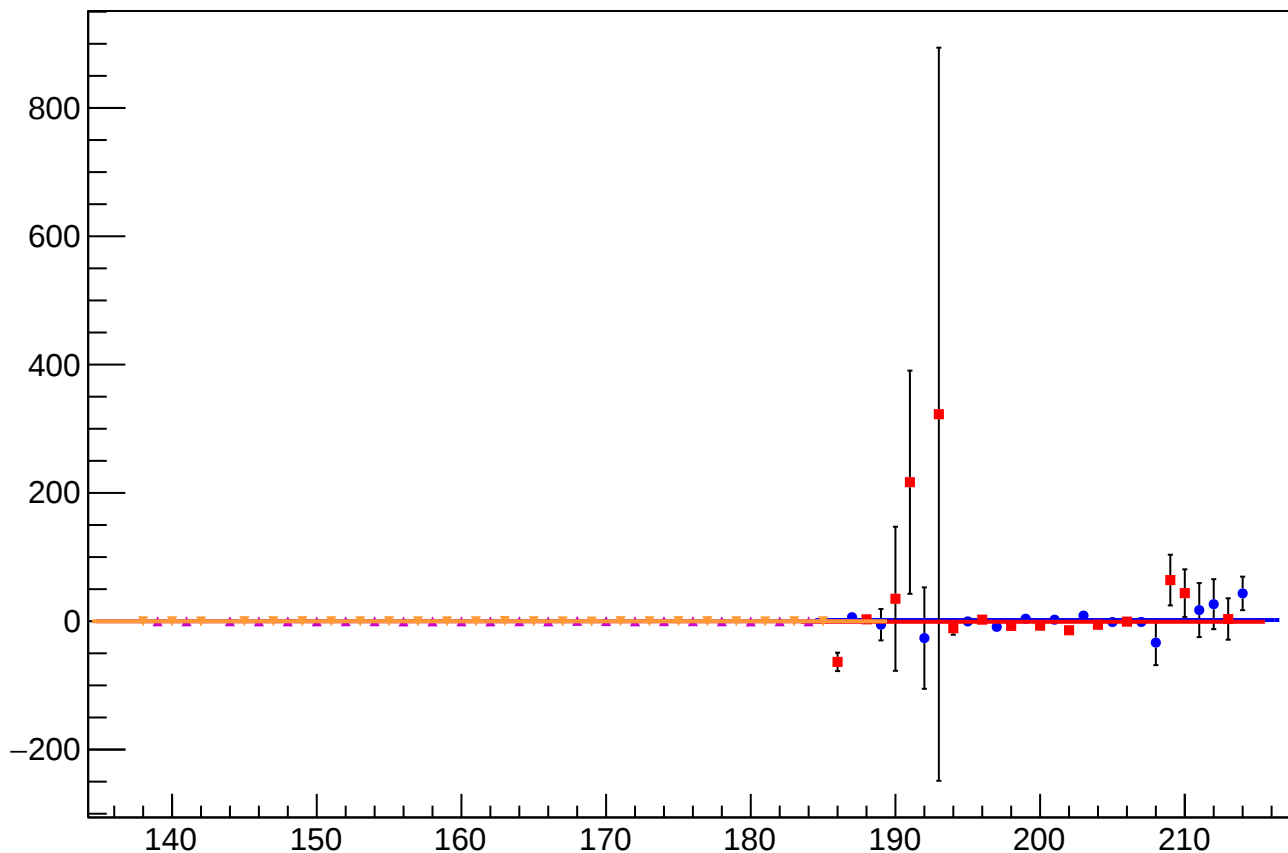
Right: -41.578 ± 0.022 $\chi^2/\text{NDF}: 40103.3/63$

In: -39.395 ± 0.014 $\chi^2/\text{NDF}: 75620.1/53$

Out: -39.974 ± 0.014 $\chi^2/\text{NDF}: 118919.2/57$

All: -39.687 ± 0.010 $\chi^2/\text{NDF}: 195381.5/111$

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.898 ± 1.531 $\chi^2/\text{NDF}: 15.3/13$

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 $\chi^2/\text{NDF}: 77.1/46$

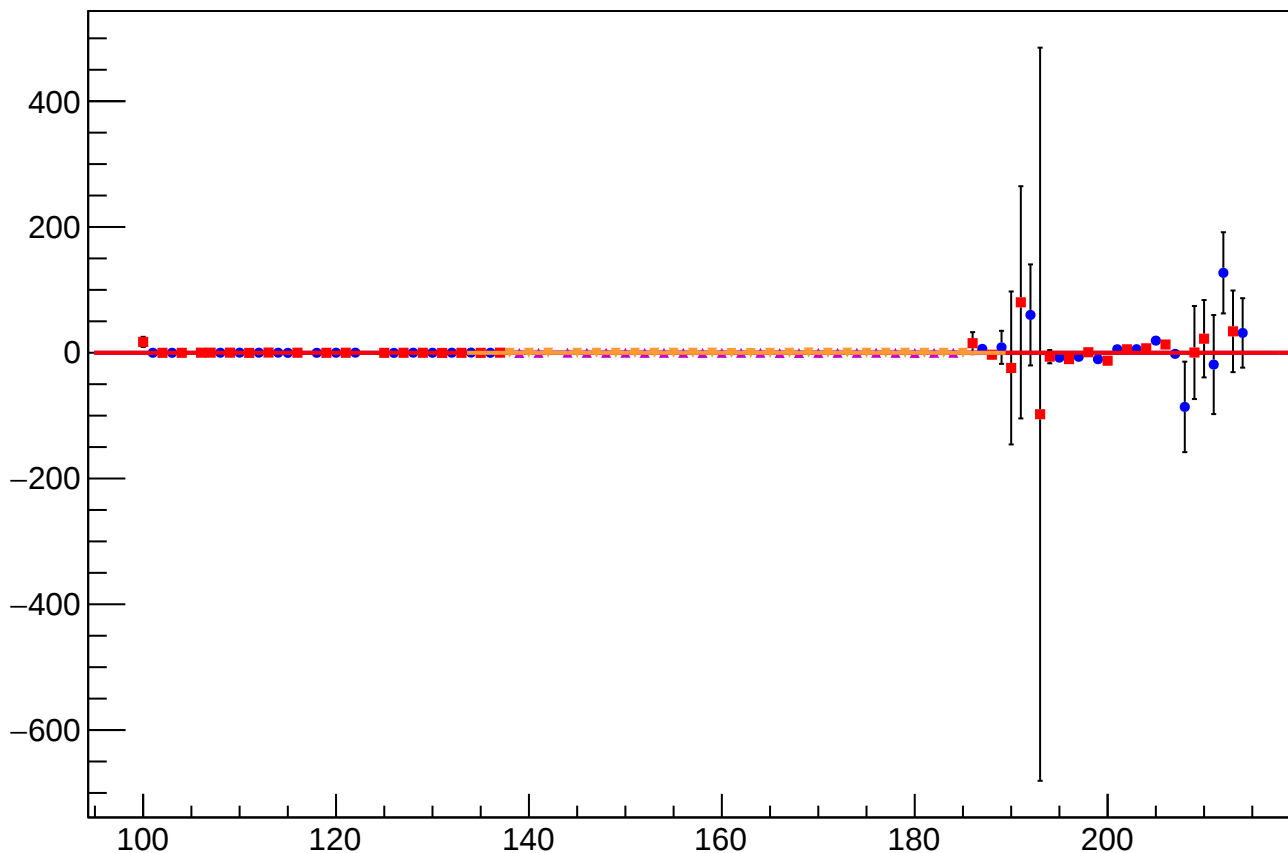
Right: 0.427 ± 1.041 $\chi^2/\text{NDF}: 53.7/28$

In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 50.2/36$

Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 76.7/38$

All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 131.0/75$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 37.6/29

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

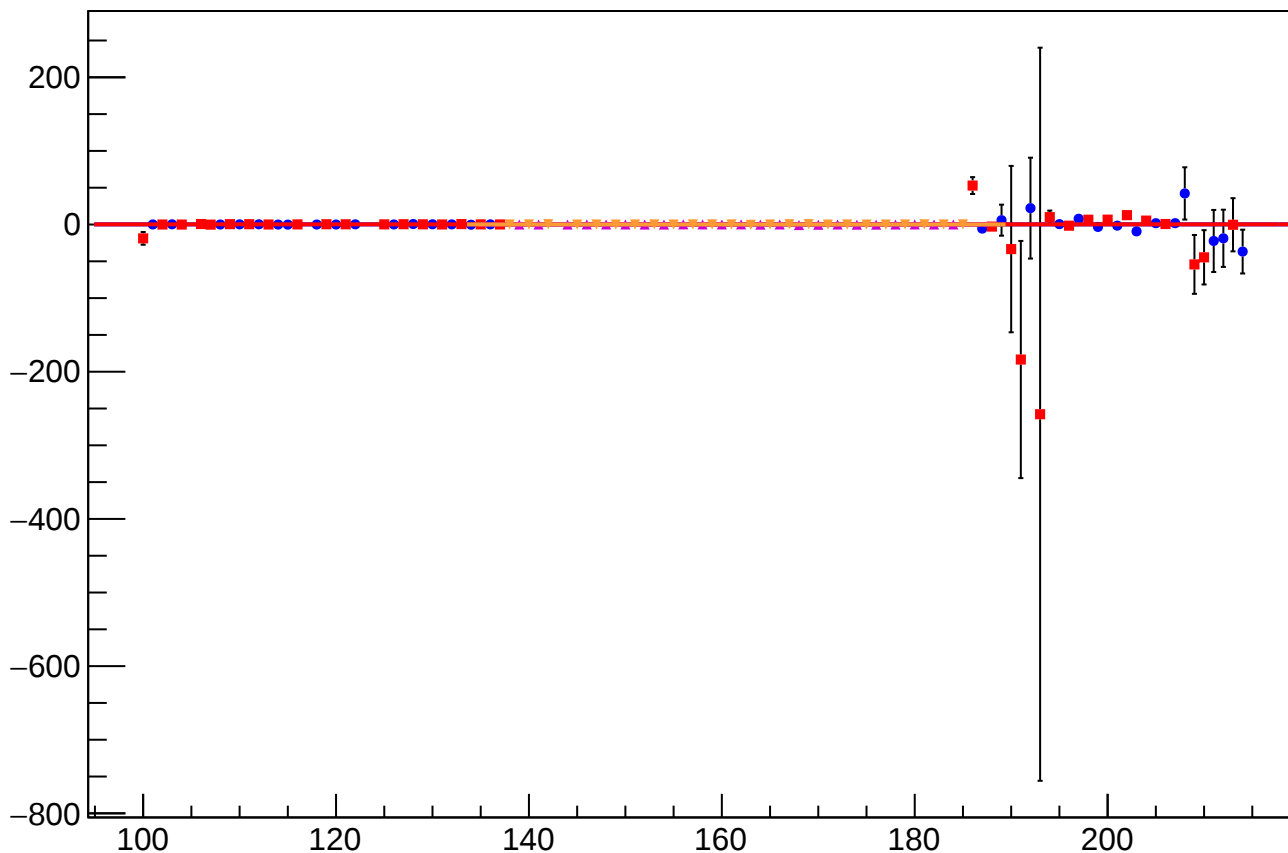
Right: -0.025 ± 0.020 χ^2/NDF : 80.5/62

In: -0.038 ± 0.015 χ^2/NDF : 71.6/52

Out: -0.073 ± 0.015 χ^2/NDF : 68.1/56

All: -0.056 ± 0.011 χ^2/NDF : 142.4/109

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 30.6/29

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

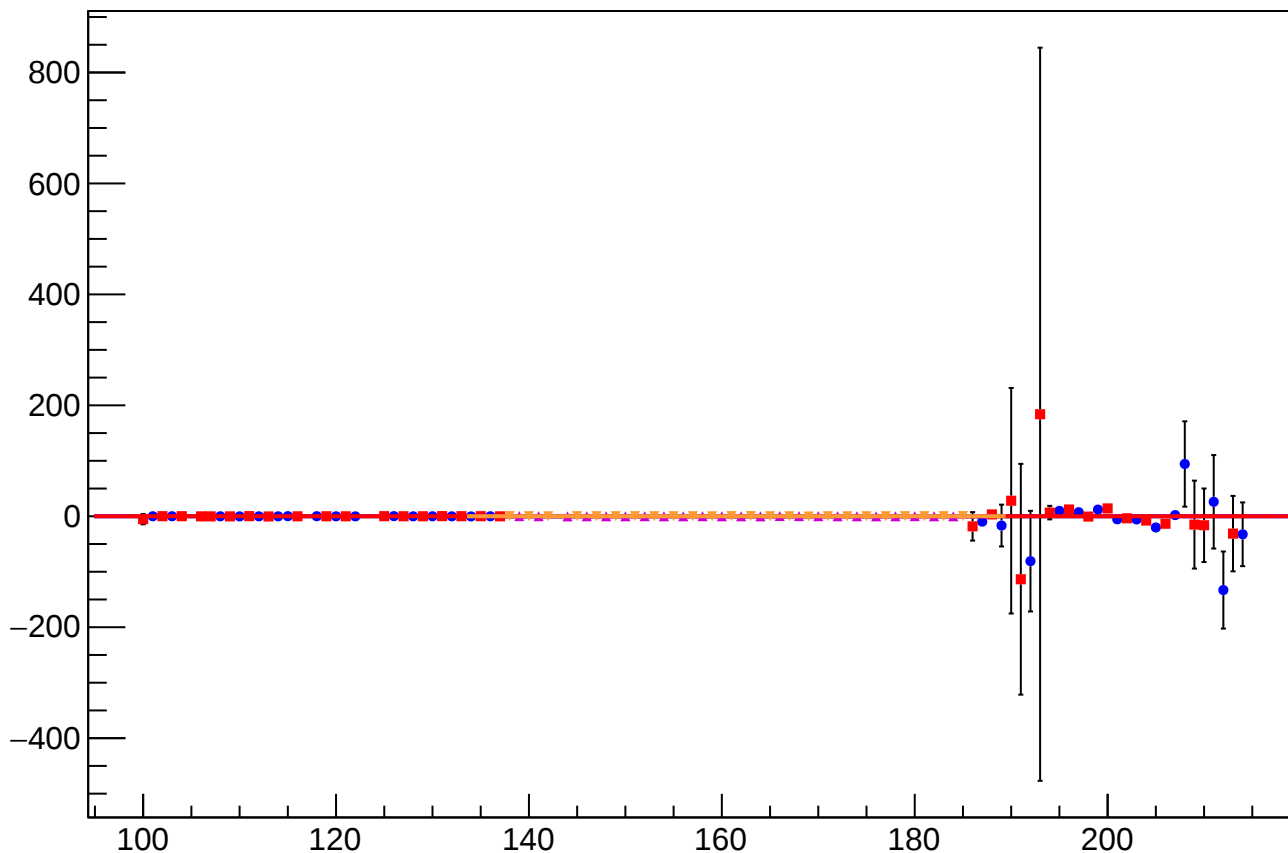
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 91.6/62

In: 0.043 $\pm$ 0.020 χ^2 /NDF:73.3/52

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:105.7/56

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 183.4/109

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 39.0/29

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

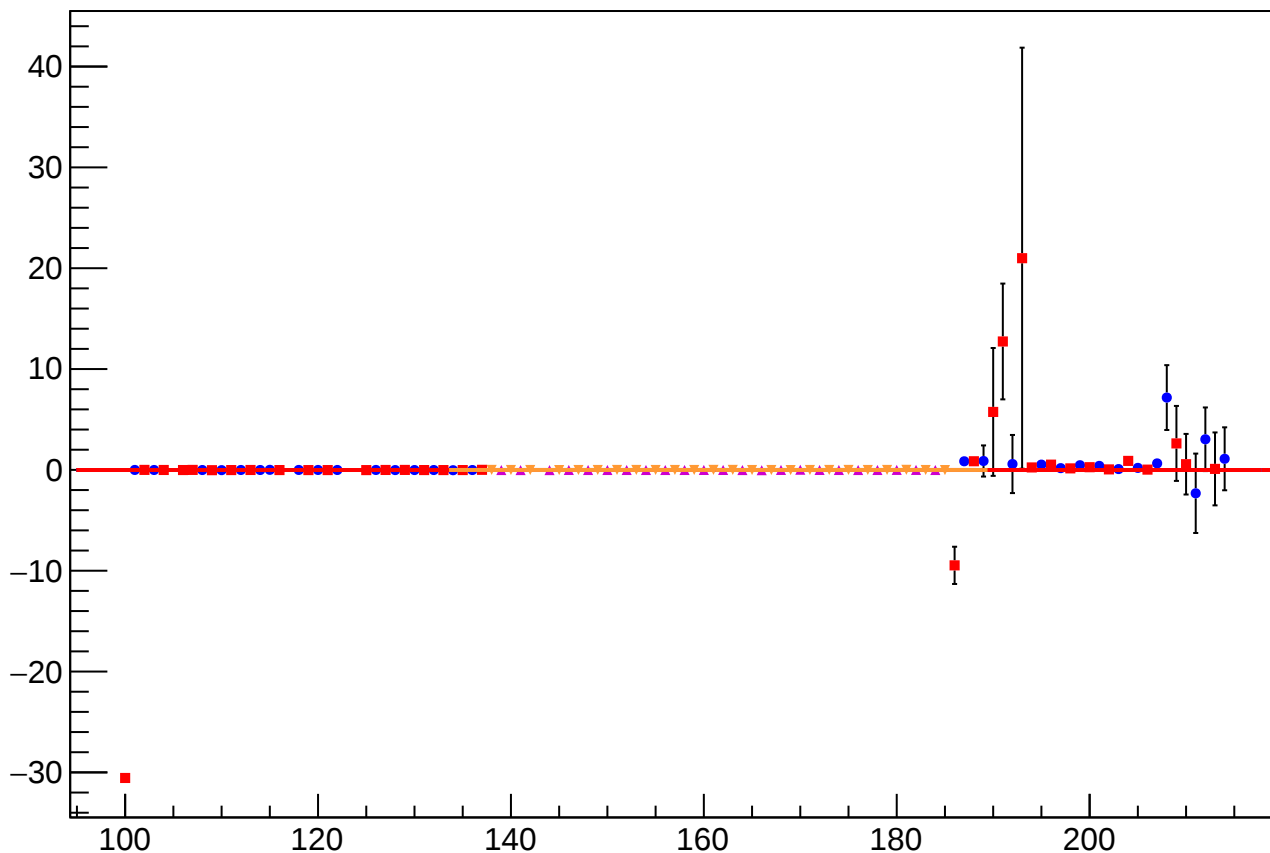
Right: 0.024 ± 0.024 χ^2/NDF : 75.8/62

In: 0.049 ± 0.017 χ^2/NDF : 74.3/52

Out: 0.093 ± 0.017 χ^2/NDF : 65.9/56

All: 0.071 ± 0.012 χ^2/NDF : 143.6/109

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 48.0/29

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11954.9/32

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

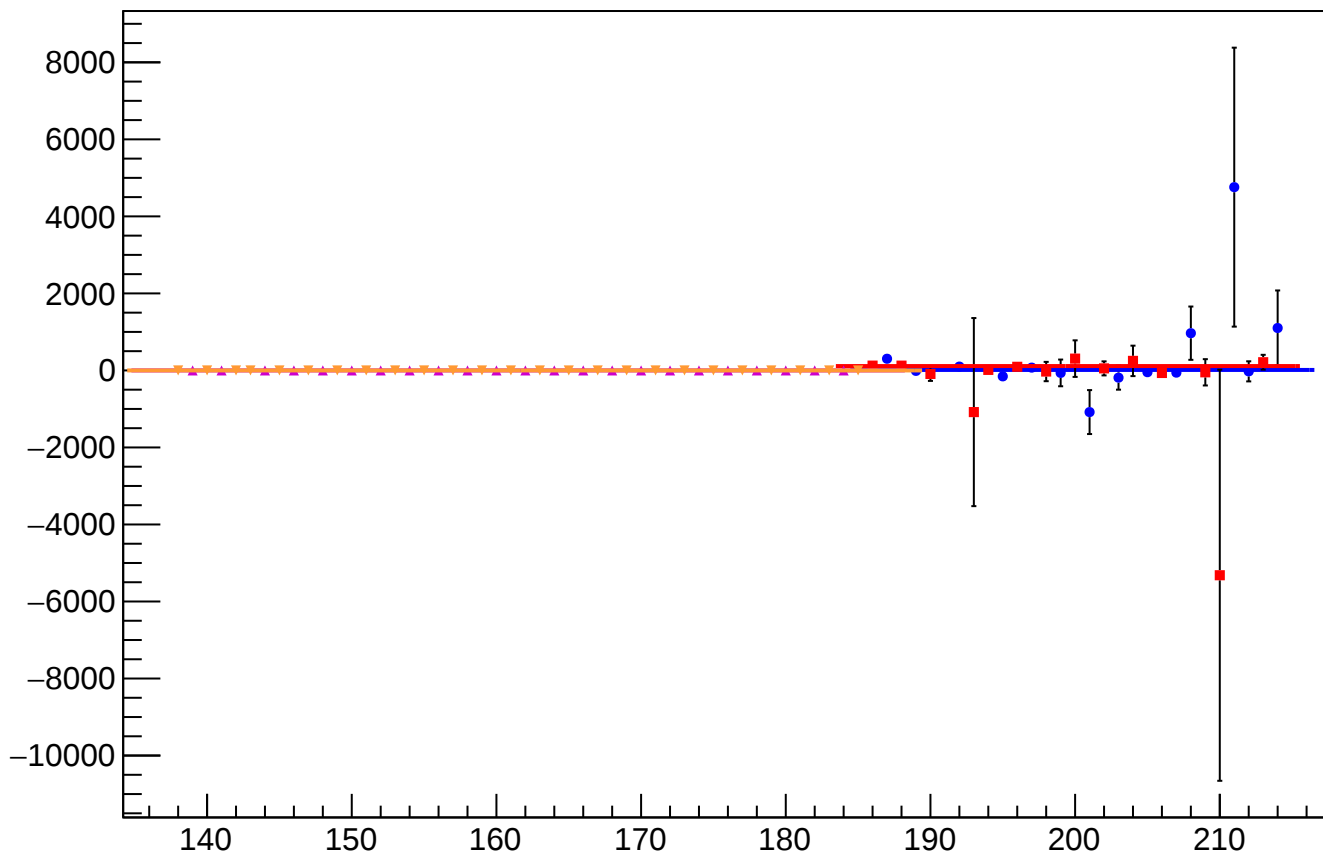
Right: -0.012 ± 0.001 χ^2/NDF : 12002.9/62

In: -0.009 ± 0.001 χ^2/NDF : 91.0/52

Out: -0.009 ± 0.001 χ^2/NDF : 11988.8/56

All: -0.009 ± 0.001 χ^2/NDF : 12080.0/109

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.553+/-25.899 χ^2/NDF : 25.2/13

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

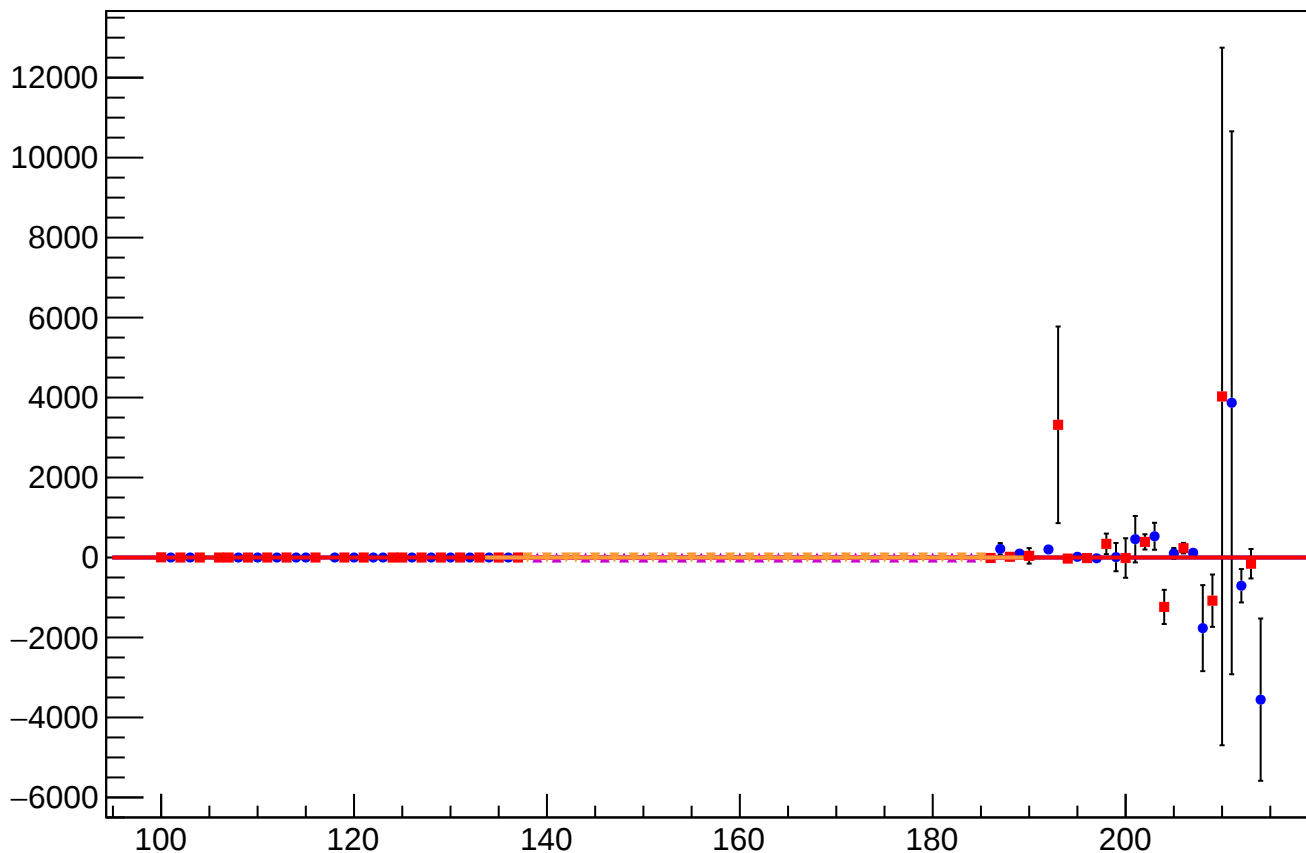
Right: 85.151+/-13.680 χ^2/NDF : 44.9/27

In: 0.002+/-0.028 χ^2/NDF :54.4/36

Out: 0.018+/-0.027 χ^2/NDF :89.1/38

All: 0.010+/-0.019 χ^2/NDF : 143.7/75

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 48.0/30$

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 $\chi^2/\text{NDF}: 73.7/47$

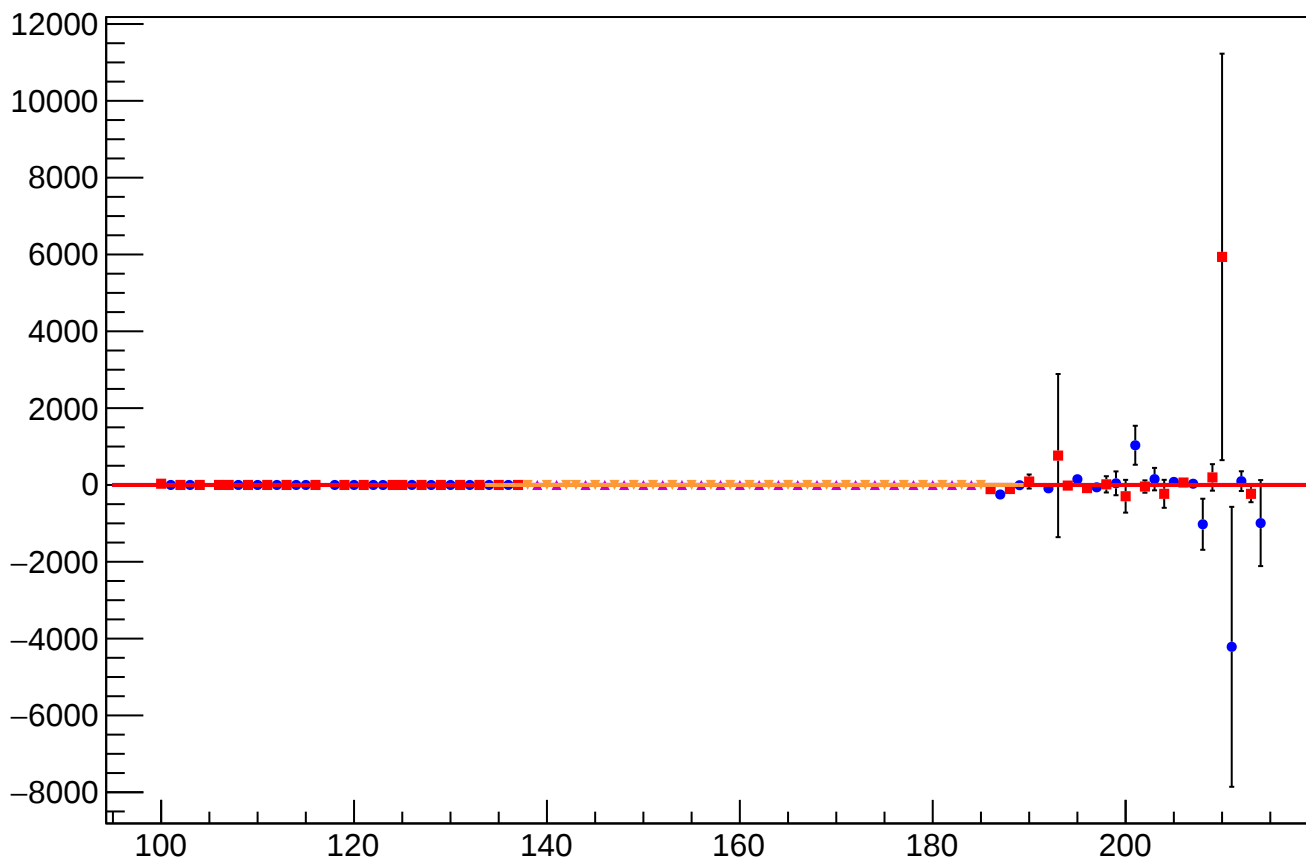
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 92.7/63$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 98.3/53$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 67.9/57$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 166.4/111$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 χ^2/NDF : 50.8/30

Left Out: -0.018 ± 0.027 χ^2/NDF : 29.0/24

Right Out: -0.167 ± 0.071 χ^2/NDF : 81.8/32

Left In: -0.033 ± 0.027 χ^2/NDF : 28.5/22

Left: -0.025 ± 0.019 χ^2/NDF : 57.6/47

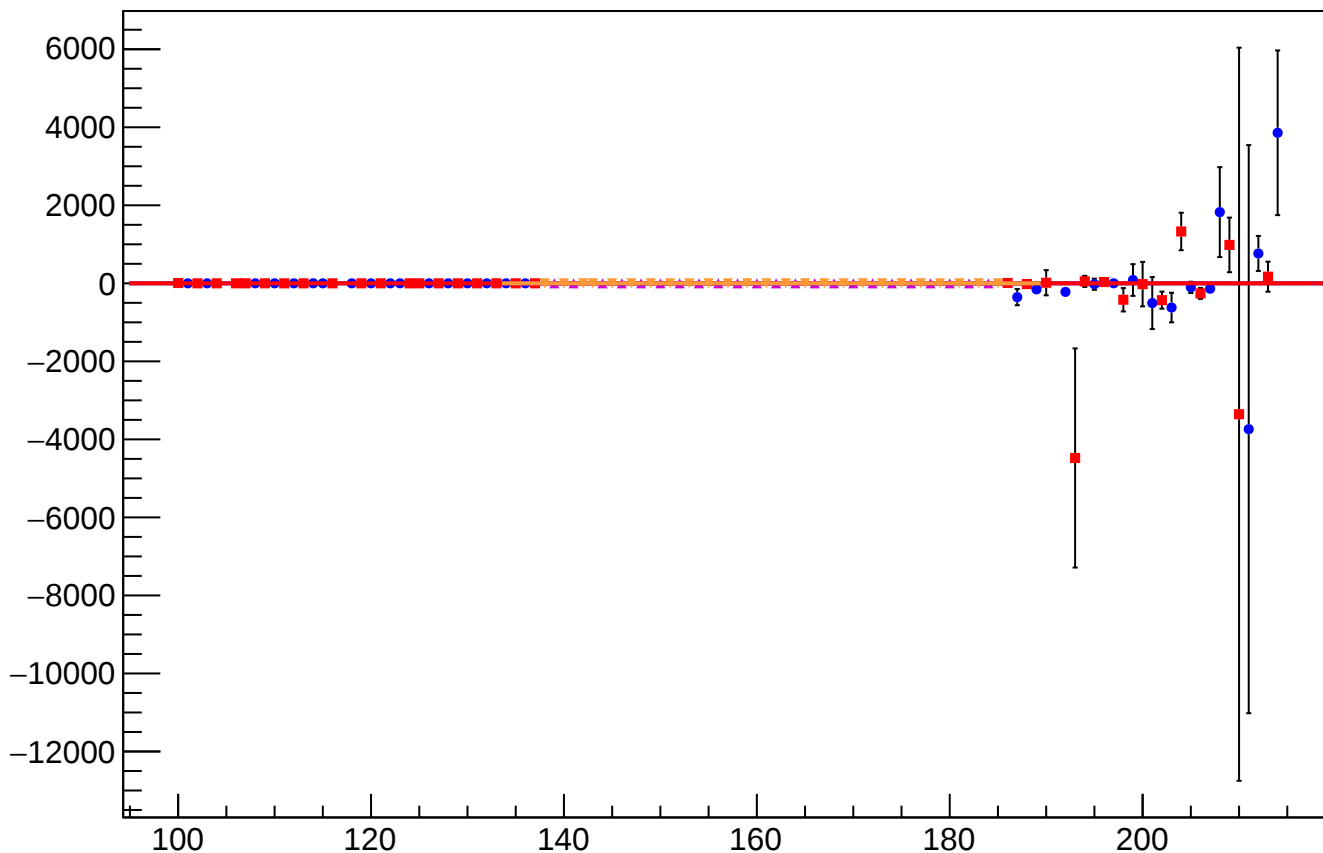
Right: -0.150 ± 0.049 χ^2/NDF : 132.7/63

In: -0.047 ± 0.025 χ^2/NDF : 81.2/53

Out: -0.037 ± 0.025 χ^2/NDF : 114.7/57

All: -0.042 ± 0.018 χ^2/NDF : 196.0/111

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 47.1/30

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

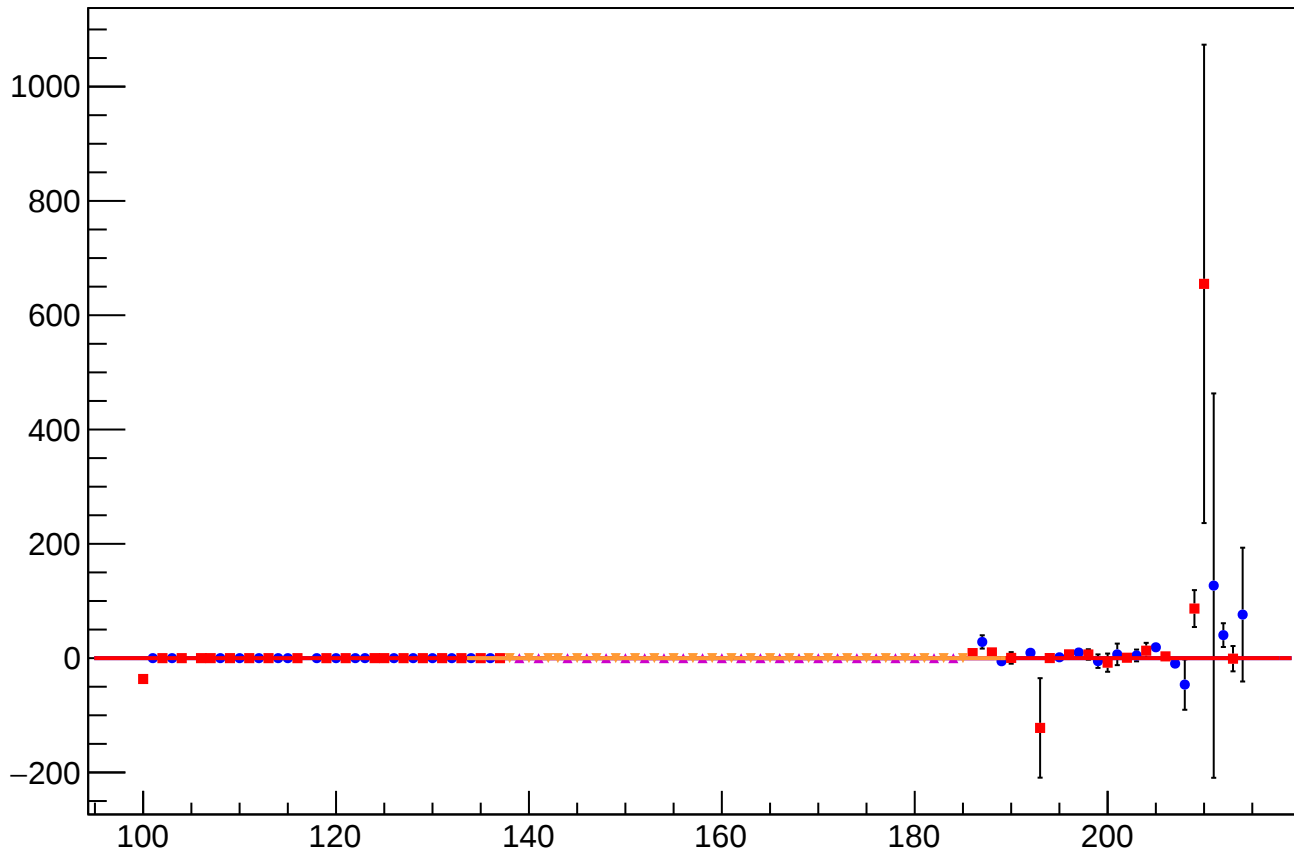
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 90.1/63

In: 0.056 $\pm$ 0.021 χ^2 /NDF:99.9/53

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:66.0/57

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 166.7/111

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001+/-0.002 χ^2/NDF : 68.3/30

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

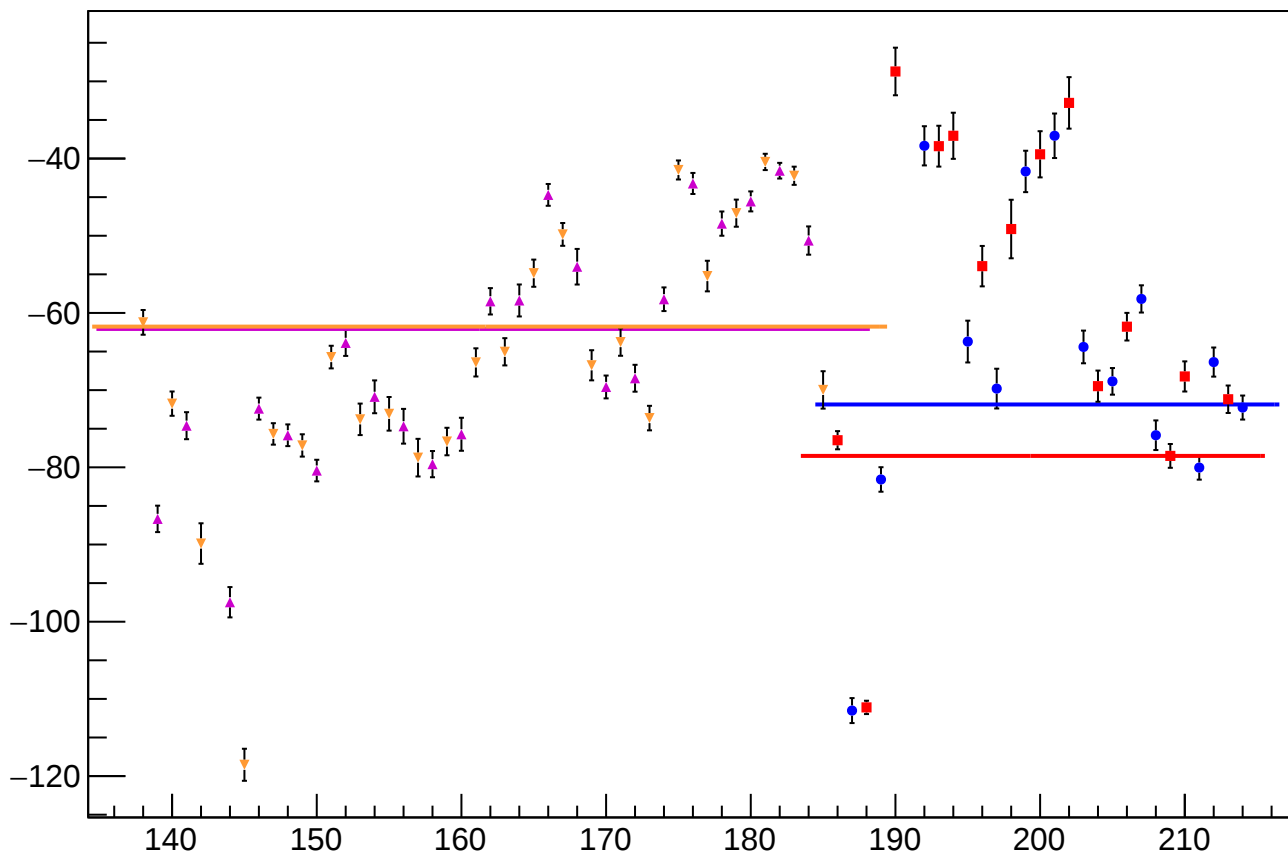
Right: 0.001+/-0.002 χ^2/NDF : 10552.4/63

In: 0.007+/-0.001 χ^2/NDF : 92.8/53

Out: 0.007+/-0.001 χ^2/NDF : 10519.2/57

All: 0.007+/-0.001 χ^2/NDF : 10612.2/111

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.858 ± 0.517 $\chi^2/\text{NDF}: 1210.4/13$

Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$

Right Out: -78.521 ± 0.477 $\chi^2/\text{NDF}: 2767.1/13$

Left In: -62.073 ± 0.332 $\chi^2/\text{NDF}: 2192.0/22$

Left: -61.923 ± 0.236 $\chi^2/\text{NDF}: 4697.3/46$

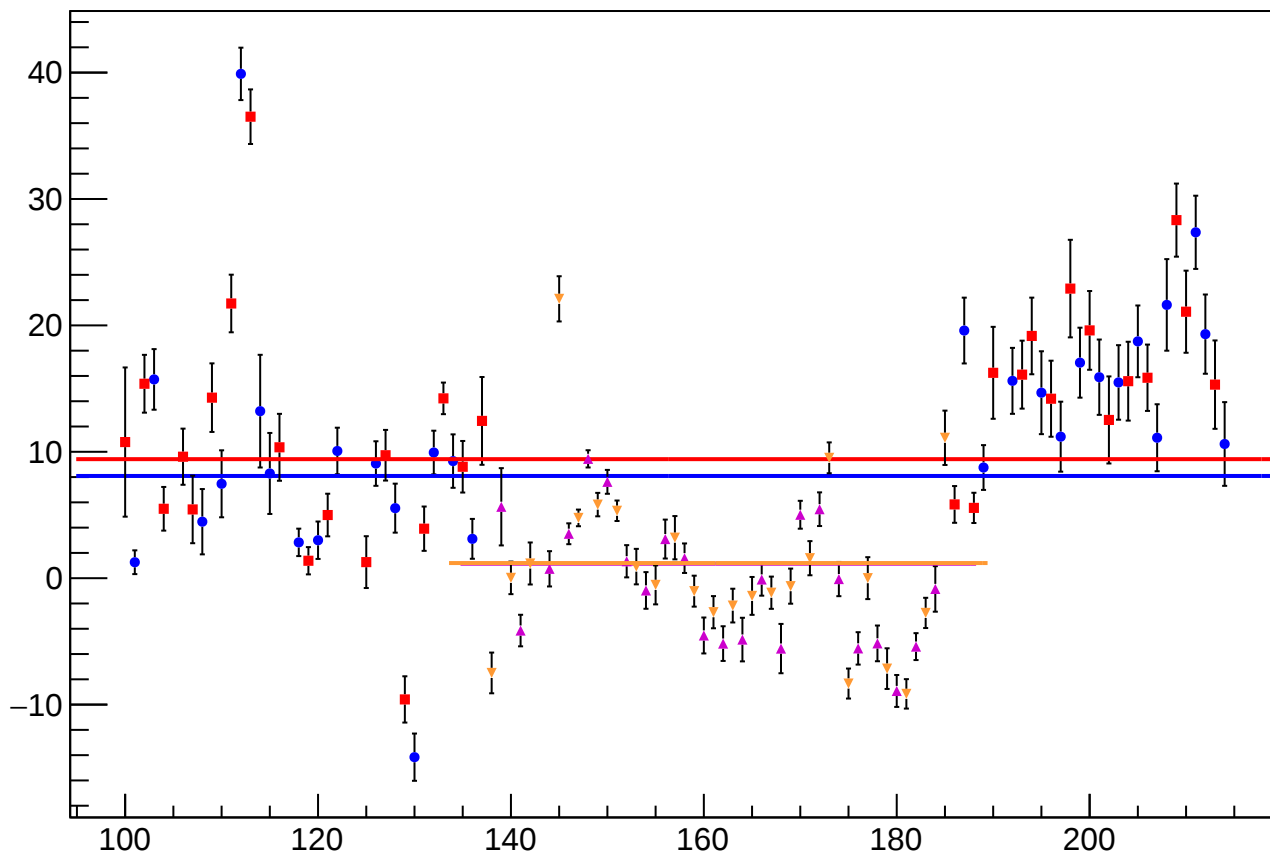
Right: -75.458 ± 0.351 $\chi^2/\text{NDF}: 4067.2/27$

In: -64.931 ± 0.280 $\chi^2/\text{NDF}: 3655.6/36$

Out: -67.277 ± 0.274 $\chi^2/\text{NDF}: 6099.4/37$

All: -66.130 ± 0.196 $\chi^2/\text{NDF}: 9791.0/74$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.088 ± 0.371 $\chi^2/\text{NDF}: 637.1/29$

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 $\chi^2/\text{NDF}: 989.3/46$

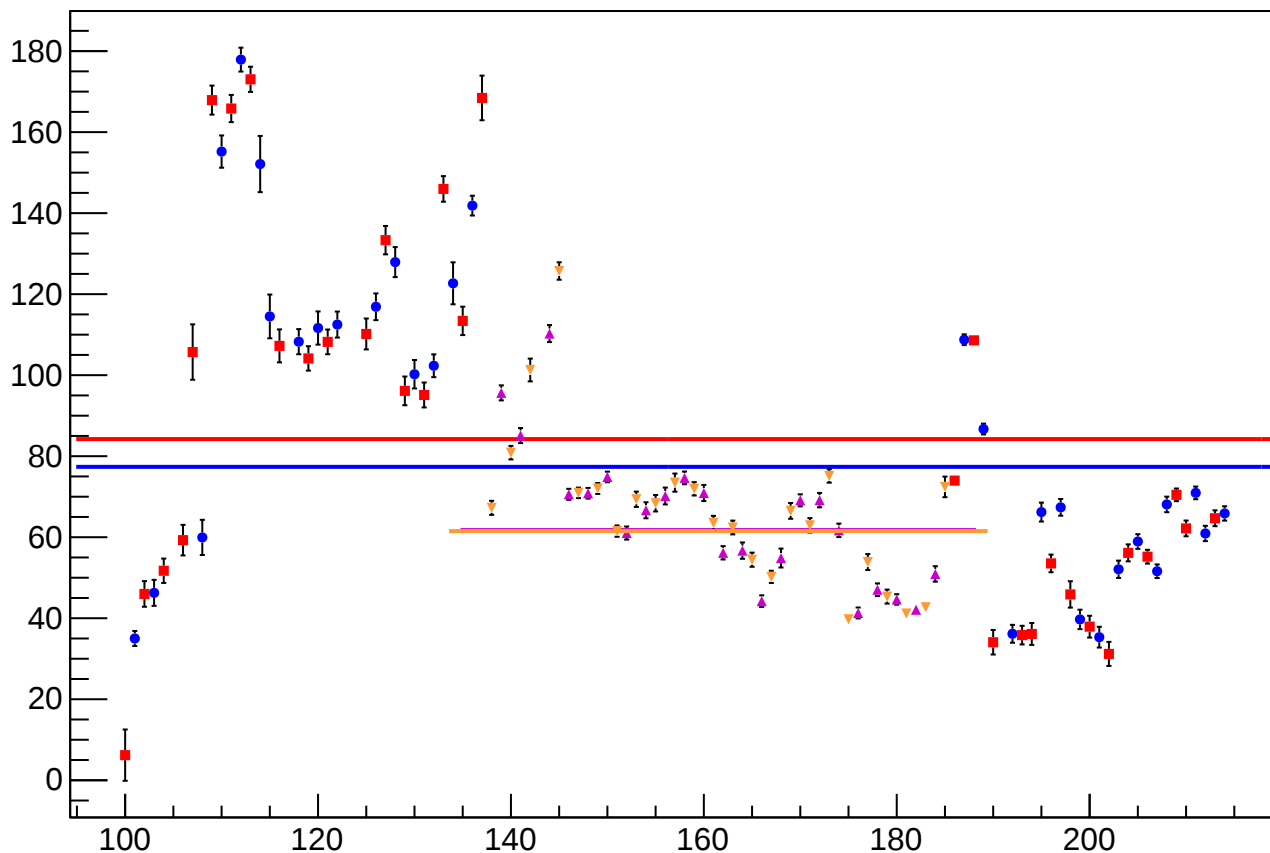
Right: 8.753 ± 0.262 $\chi^2/\text{NDF}: 1190.5/61$

In: 3.377 ± 0.210 $\chi^2/\text{NDF}: 1337.6/52$

Out: 3.803 ± 0.209 $\chi^2/\text{NDF}: 1409.0/55$

All: 3.592 ± 0.148 $\chi^2/\text{NDF}: 2748.7/108$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 77.373 $\pm$ 0.417 χ^2 /NDF: 6009.5/29

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

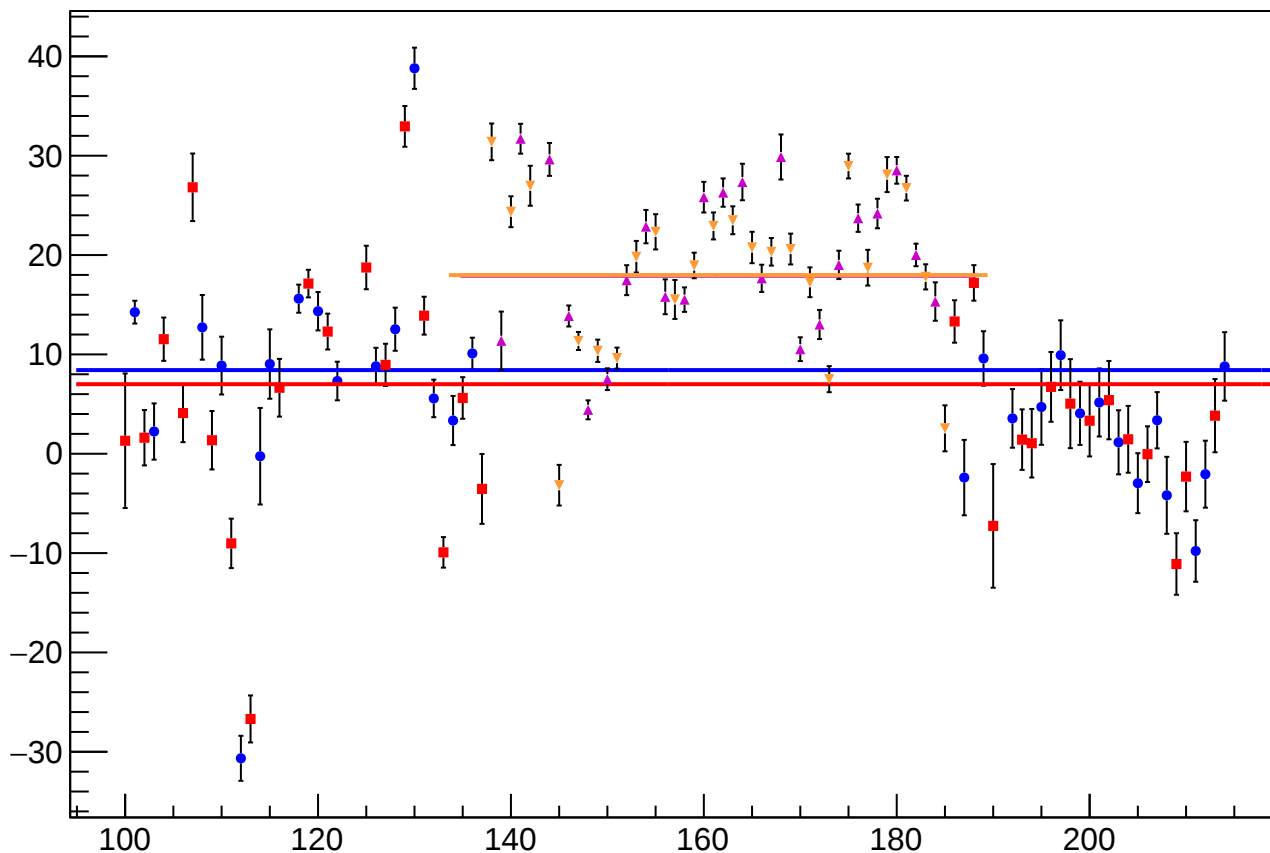
Right: 81.165 $\pm$ 0.279 χ^2 /NDF: 13779.9/61

In: 67.770 $\pm$ 0.259 χ^2 /NDF:9289.1/52

Out: 71.515 $\pm$ 0.249 χ^2 /NDF:12284.0/55

All: 69.718 $\pm$ 0.179 χ^2 /NDF: 21682.1/108

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.420 ± 0.432 χ^2/NDF : 686.8/29

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

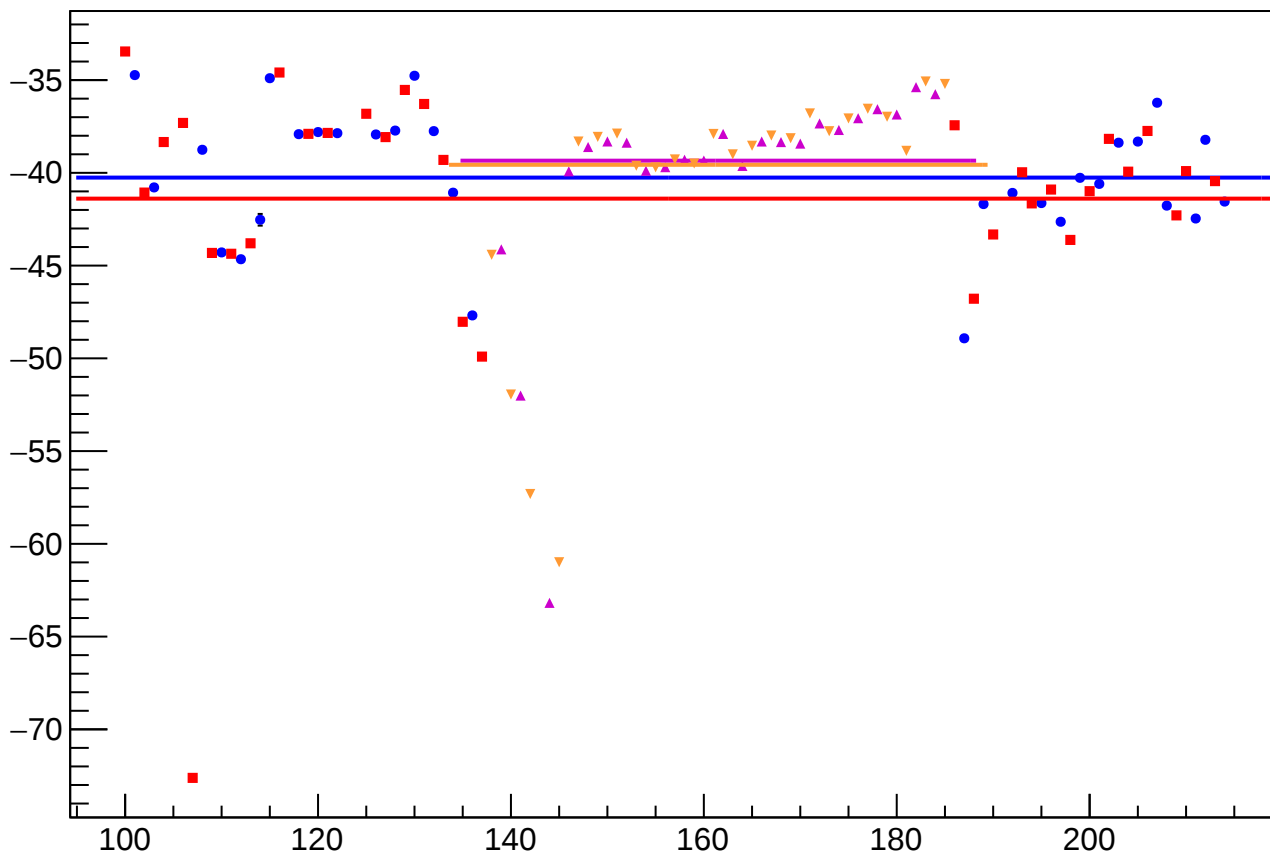
Right: 7.725 ± 0.309 χ^2/NDF : 1484.6/61

In: 14.935 ± 0.242 χ^2/NDF : 1744.5/52

Out: 14.653 ± 0.243 χ^2/NDF : 1898.5/55

All: 14.795 ± 0.171 χ^2/NDF : 3643.8/108

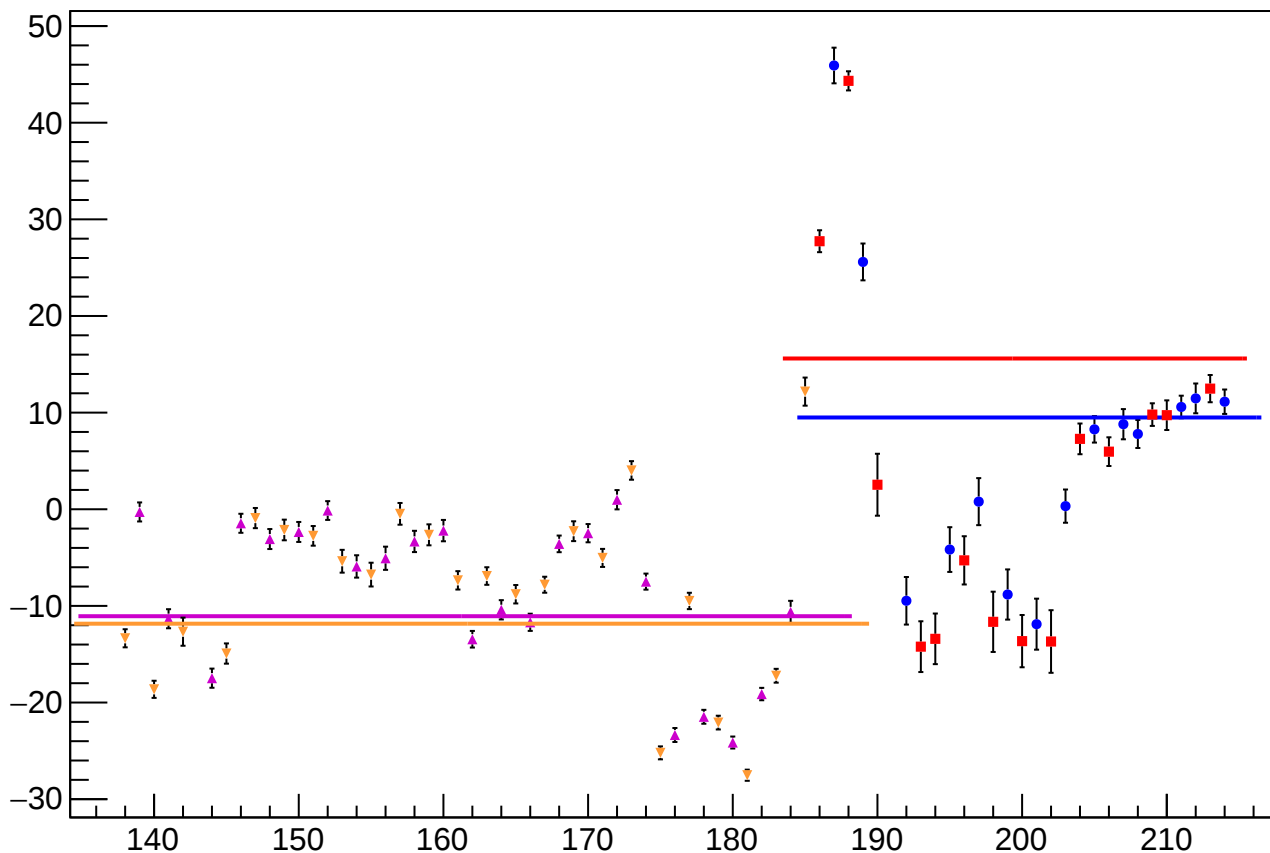
reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.256 ± 0.021 $\chi^2/\text{NDF}: 29890.6/29$
 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: -40.824 ± 0.015 $\chi^2/\text{NDF}: 100000.4/61$
 In: -39.606 ± 0.011 $\chi^2/\text{NDF}: 147799.6/52$
 Out: -40.098 ± 0.012 $\chi^2/\text{NDF}: 215051.5/55$
 All: -39.850 ± 0.008 $\chi^2/\text{NDF}: 363764.1/108$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.497 ± 0.451 χ^2/NDF : 718.6/13

Left Out: -11.842 ± 0.187 χ^2/NDF : 2739.8/23

Right Out: 15.601 ± 0.439 χ^2/NDF : 1683.3/13

Left In: -11.067 ± 0.188 χ^2/NDF : 2104.8/22

Left: -11.457 ± 0.133 χ^2/NDF : 4853.2/46

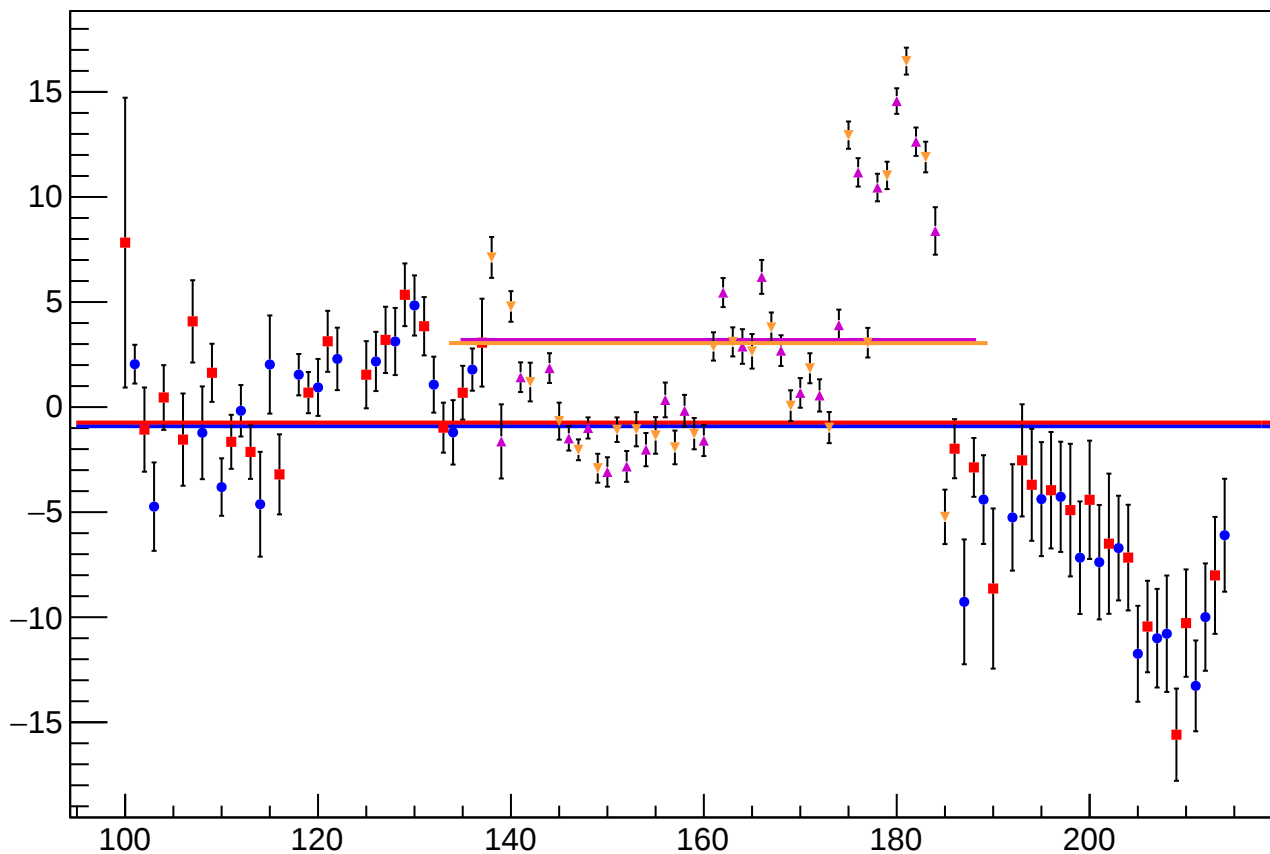
Right: 12.630 ± 0.315 χ^2/NDF : 2495.9/27

In: -8.022 ± 0.173 χ^2/NDF : 4595.6/36

Out: -7.635 ± 0.172 χ^2/NDF : 7731.5/37

All: -7.827 ± 0.122 χ^2/NDF : 12329.6/74

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.910 ± 0.305 χ^2/NDF : 207.8/29

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

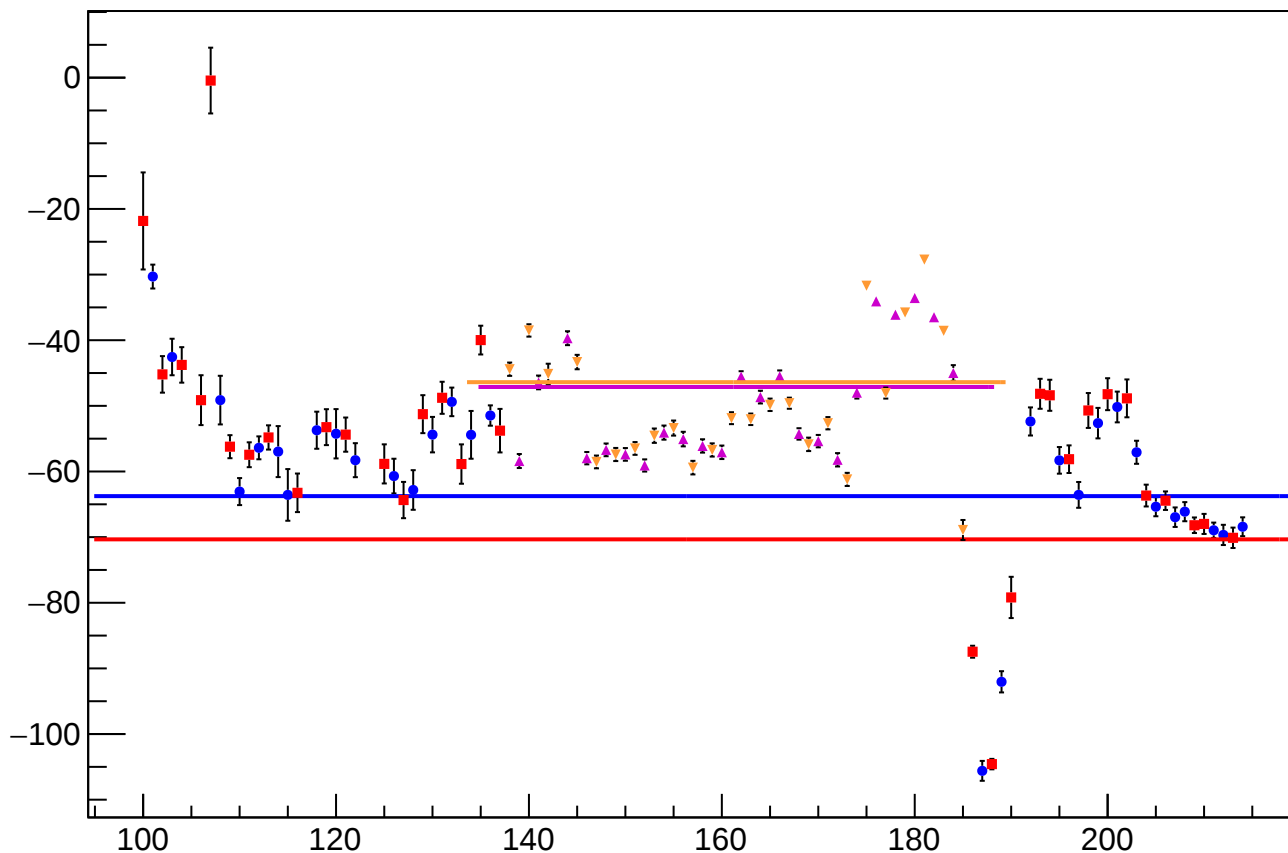
Right: -0.823 ± 0.216 χ^2/NDF : 382.0/61

In: 2.395 ± 0.135 χ^2/NDF : 1648.7/52

Out: 2.332 ± 0.133 χ^2/NDF : 1755.0/55

All: 2.363 ± 0.095 χ^2/NDF : 3403.8/108

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.753 ± 0.356 χ^2/NDF : 1811.3/29

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

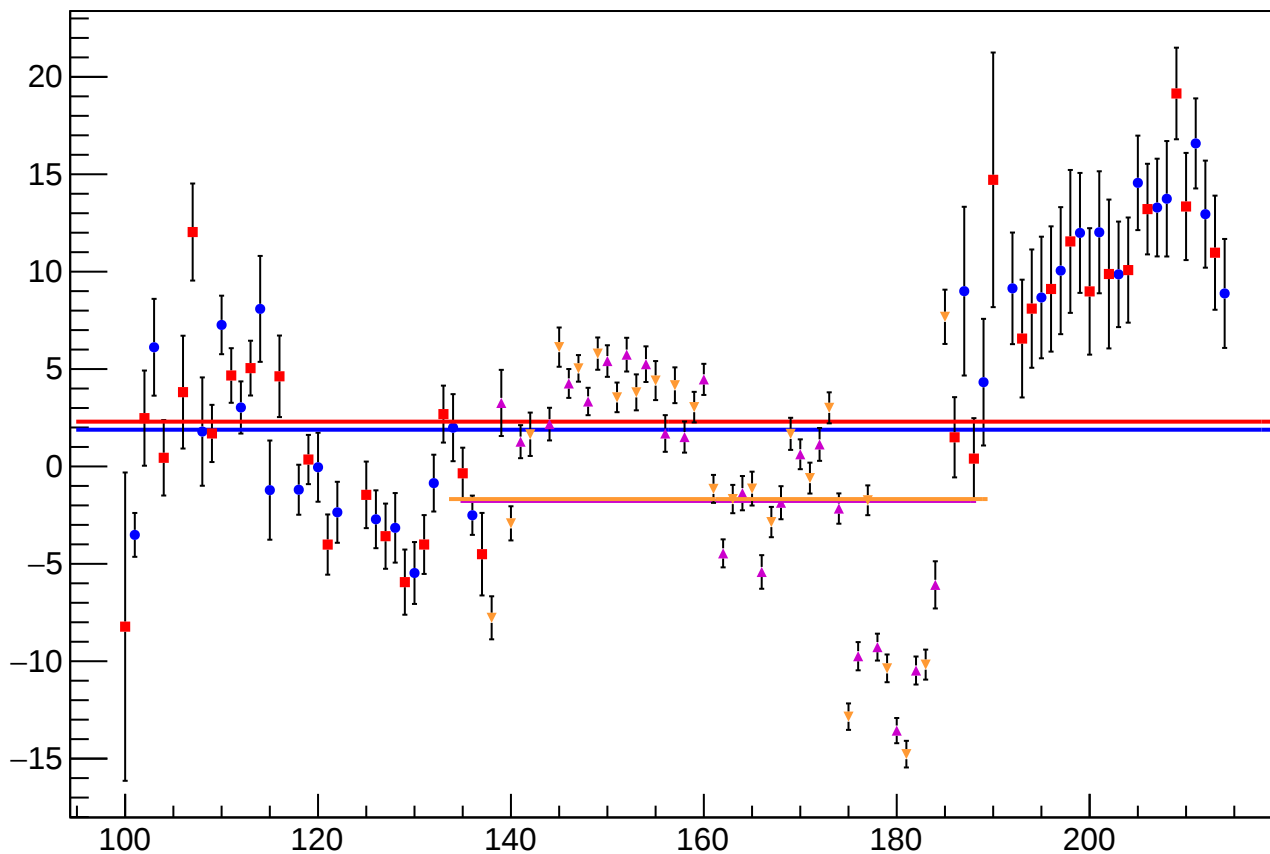
Right: -67.251 ± 0.244 χ^2/NDF : 5725.8/61

In: -50.733 ± 0.166 χ^2/NDF : 6038.0/52

Out: -52.080 ± 0.163 χ^2/NDF : 10932.7/55

All: -51.418 ± 0.116 χ^2/NDF : 17004.3/108

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.886 ± 0.346 χ^2/NDF : 299.4/29

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

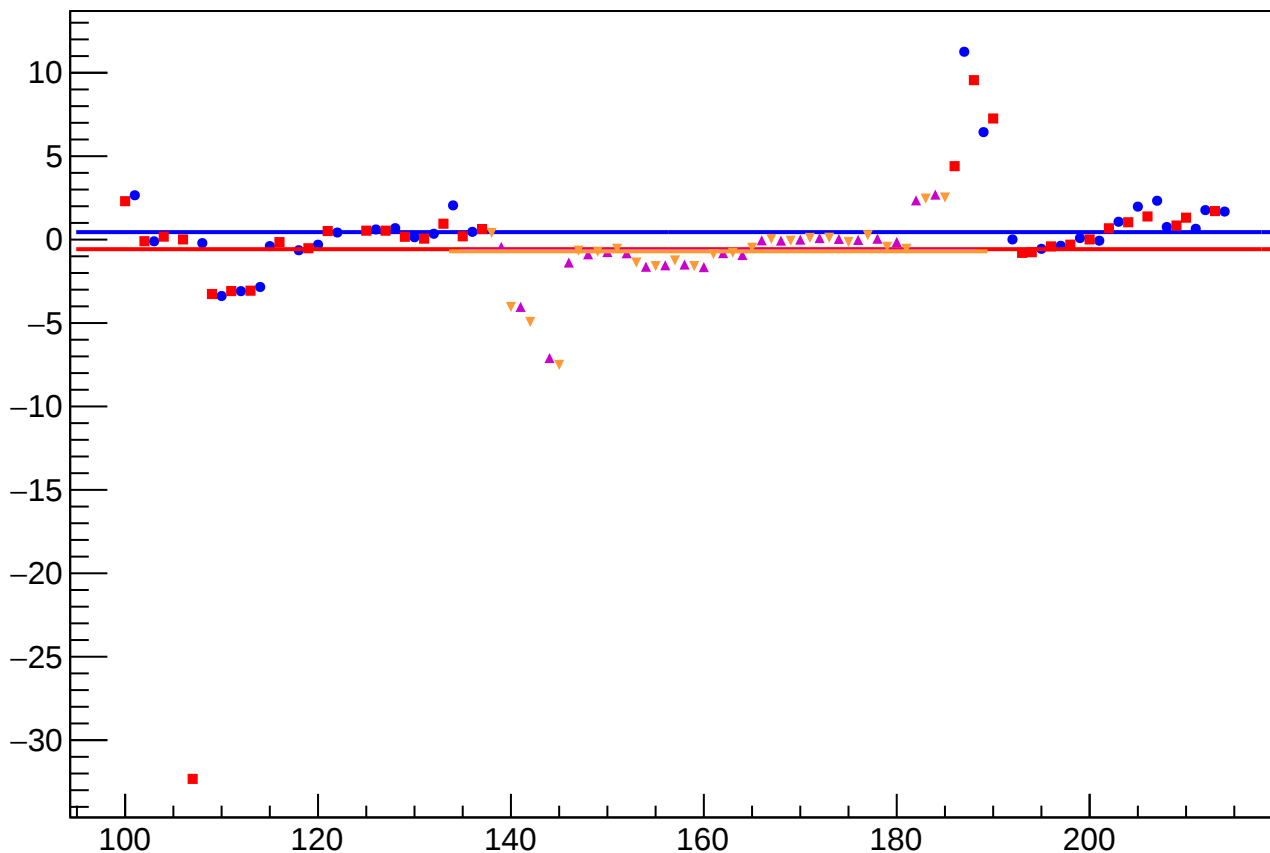
Right: 2.089 ± 0.247 χ^2/NDF : 554.6/61

In: -1.067 ± 0.152 χ^2/NDF : 1640.9/52

Out: -0.947 ± 0.151 χ^2/NDF : 1842.0/55

All: -1.007 ± 0.107 χ^2/NDF : 3483.2/108

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.449 ± 0.017 χ^2/NDF : 10146.8/29

Left Out: -0.702 ± 0.008 χ^2/NDF : 53834.9/23

Right Out: -0.573 ± 0.017 χ^2/NDF : 94031.1/31

Left In: -0.644 ± 0.008 χ^2/NDF : 44169.2/22

Left: -0.673 ± 0.005 χ^2/NDF : 98032.6/46

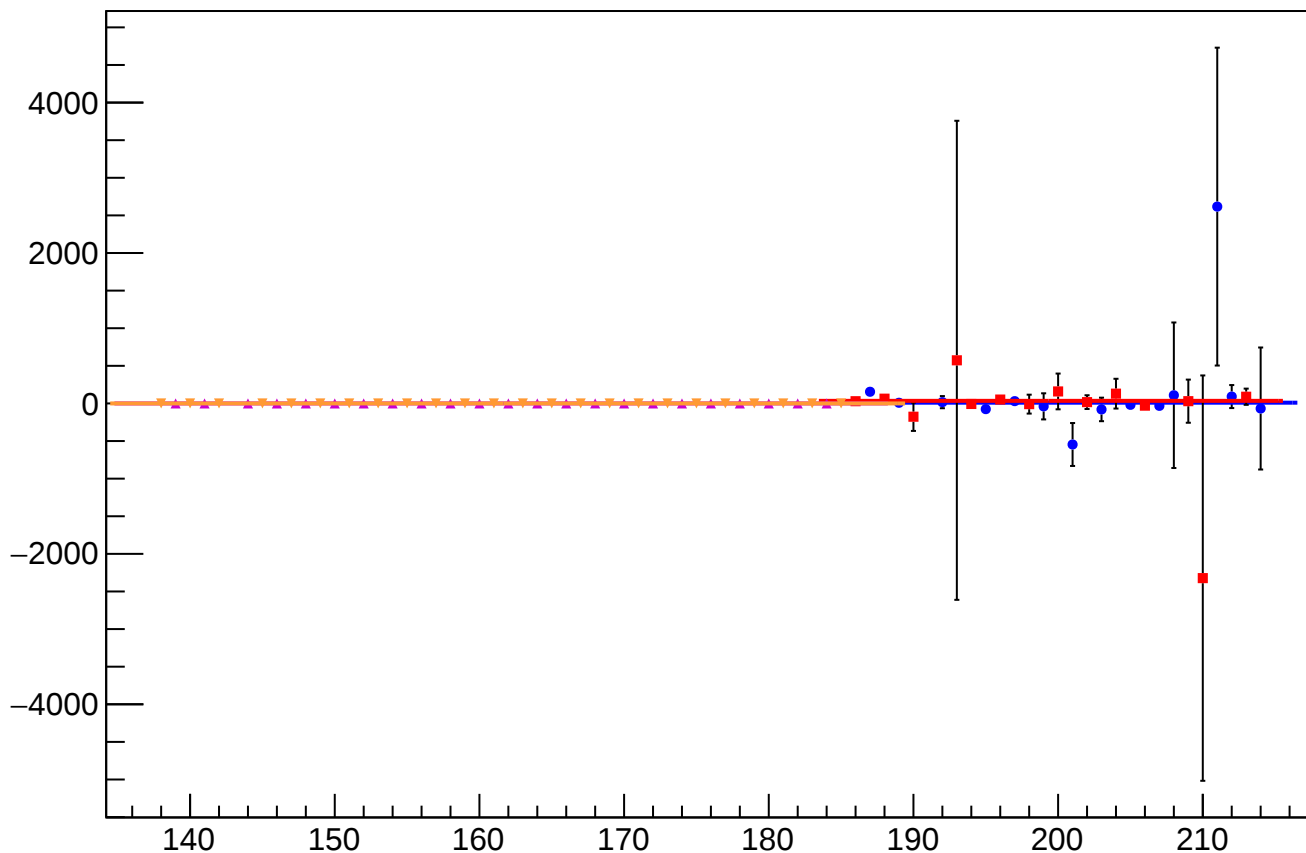
Right: -0.058 ± 0.012 χ^2/NDF : 105898.4/61

In: -0.465 ± 0.007 χ^2/NDF : 57634.6/52

Out: -0.681 ± 0.007 χ^2/NDF : 147911.5/55

All: -0.573 ± 0.005 χ^2/NDF : 206020.4/108

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.936 ± 15.137 $\chi^2/\text{NDF}: 21.2/13$

Left Out: -0.037 ± 0.018 $\chi^2/\text{NDF}: 35.4/23$

Right Out: 34.398 ± 9.632 $\chi^2/\text{NDF}: 7.6/13$

Left In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.024 ± 0.013 $\chi^2/\text{NDF}: 71.7/46$

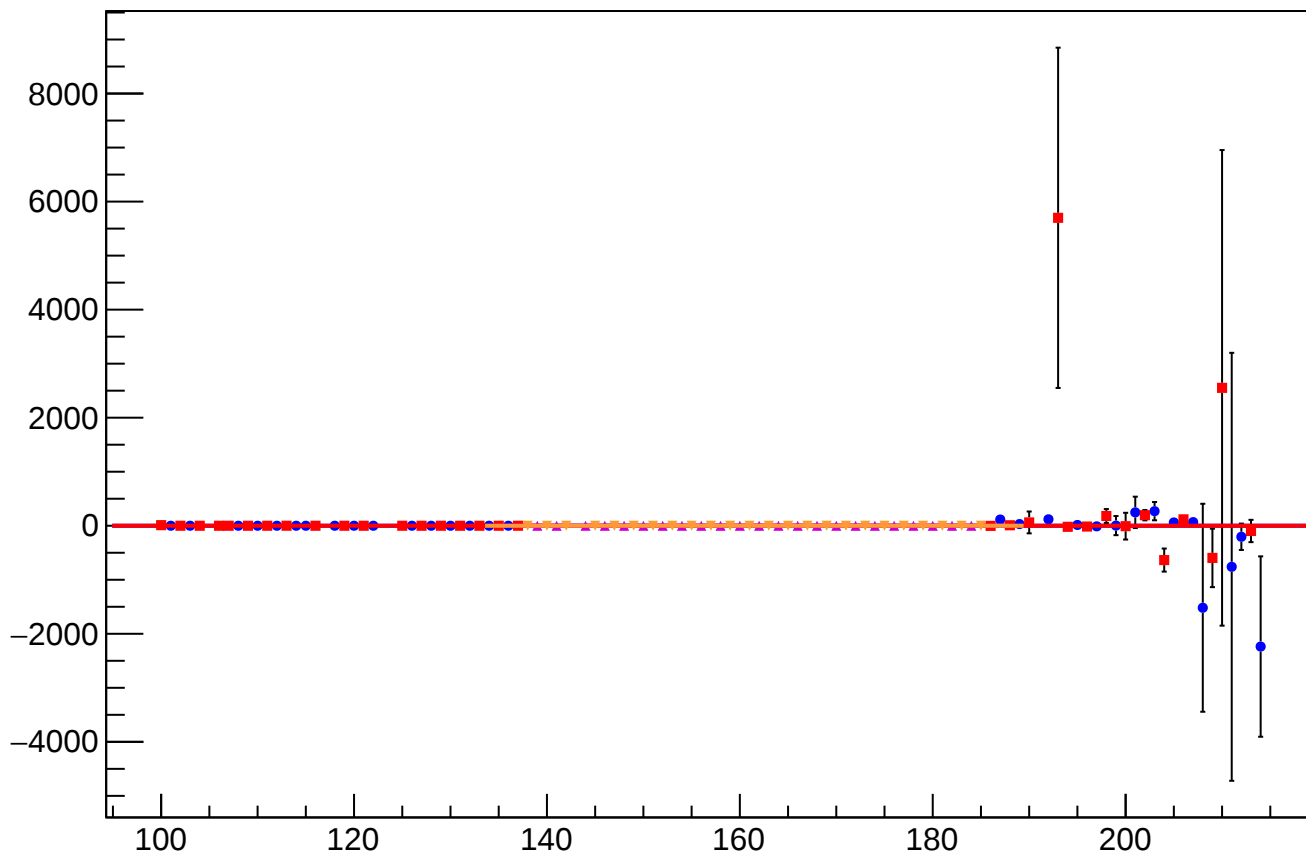
Right: 27.348 ± 8.127 $\chi^2/\text{NDF}: 30.7/27$

In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 56.8/36$

Out: -0.037 ± 0.018 $\chi^2/\text{NDF}: 55.8/37$

All: -0.024 ± 0.013 $\chi^2/\text{NDF}: 113.7/74$

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 $\pm$ 0.023 χ^2 /NDF: 26.6/29

Left Out: -0.073 $\pm$ 0.014 χ^2 /NDF: 27.8/23

Right Out: -0.088 $\pm$ 0.025 χ^2 /NDF: 36.6/31

Left In: -0.064 $\pm$ 0.014 χ^2 /NDF: 41.1/22

Left: -0.068 $\pm$ 0.010 χ^2 /NDF: 69.1/46

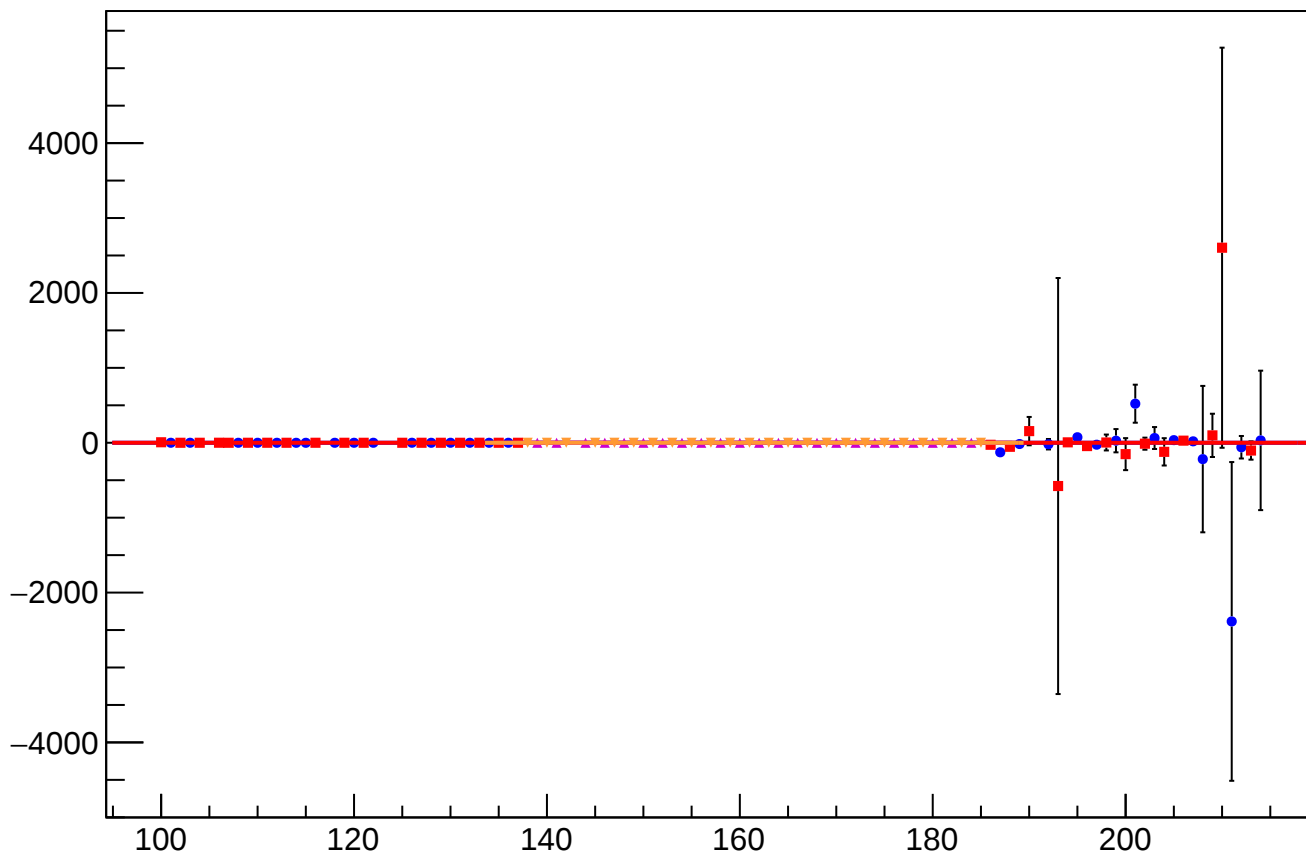
Right: -0.048 $\pm$ 0.017 χ^2 /NDF: 68.0/61

In: -0.050 $\pm$ 0.012 χ^2 /NDF: 71.1/52

Out: -0.076 $\pm$ 0.012 χ^2 /NDF: 64.6/55

All: -0.063 $\pm$ 0.009 χ^2 /NDF: 138.0/108

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 31.6/29

Left Out: 0.035 $\pm$ 0.018 χ^2 /NDF:32.2/23

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 32.5/31

Left In: -0.009 $\pm$ 0.018 χ^2 /NDF:36.8/22

Left: 0.013 $\pm$ 0.013 χ^2 /NDF: 72.0/46

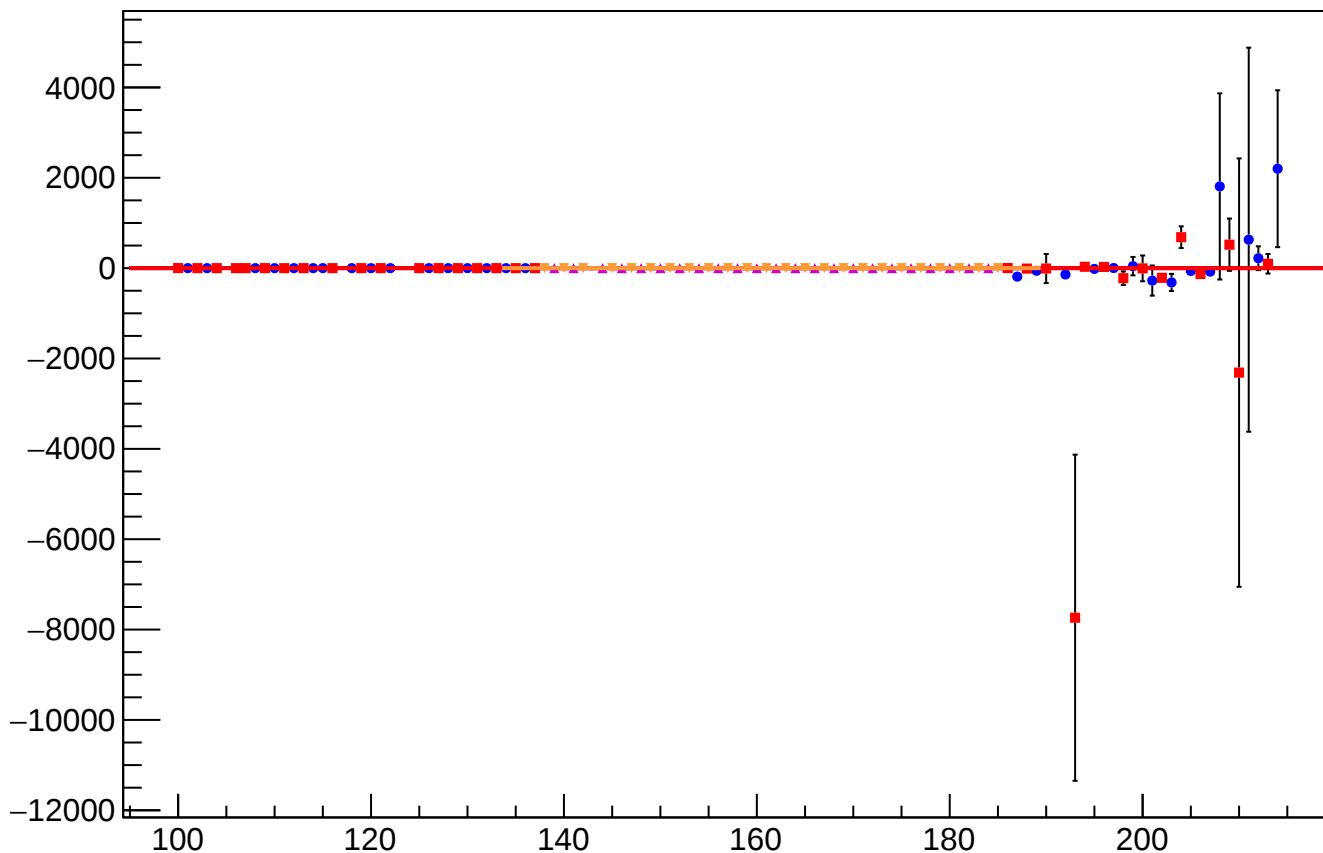
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 64.1/61

In: -0.005 $\pm$ 0.017 χ^2 /NDF:68.7/52

Out: 0.035 $\pm$ 0.017 χ^2 /NDF:64.7/55

All: 0.015 $\pm$ 0.012 χ^2 /NDF: 136.2/108

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.027 χ^2/NDF : 27.8/29

Left Out: 0.086+/-0.016 χ^2/NDF : 27.7/23

Right Out: 0.105+/-0.029 χ^2/NDF : 32.0/31

Left In: 0.070+/-0.016 χ^2/NDF : 44.8/22

Left: 0.078+/-0.011 χ^2/NDF : 73.1/46

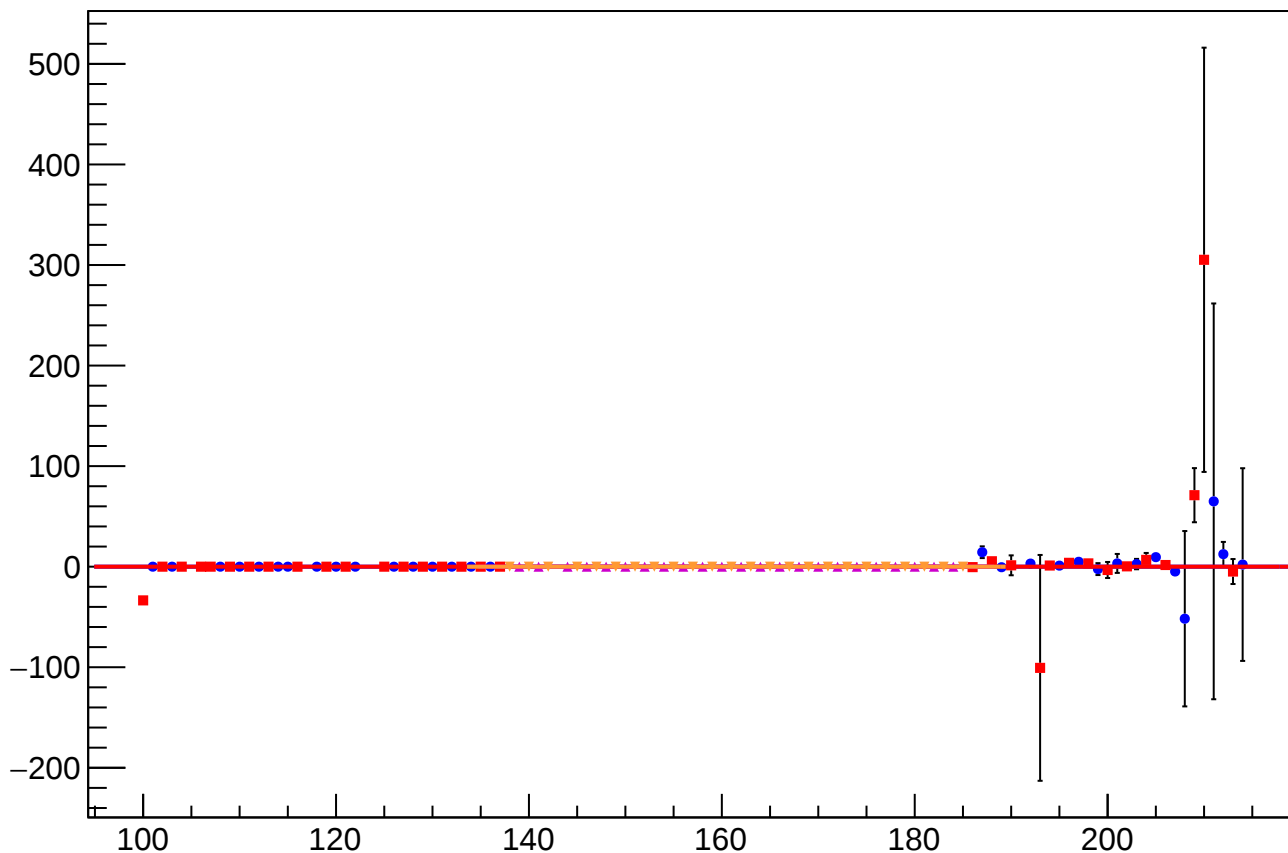
Right: 0.054+/-0.020 χ^2/NDF : 65.8/61

In: 0.053+/-0.014 χ^2/NDF : 76.4/52

Out: 0.091+/-0.014 χ^2/NDF : 60.0/55

All: 0.072+/-0.010 χ^2/NDF : 139.9/108

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 47.8/29

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

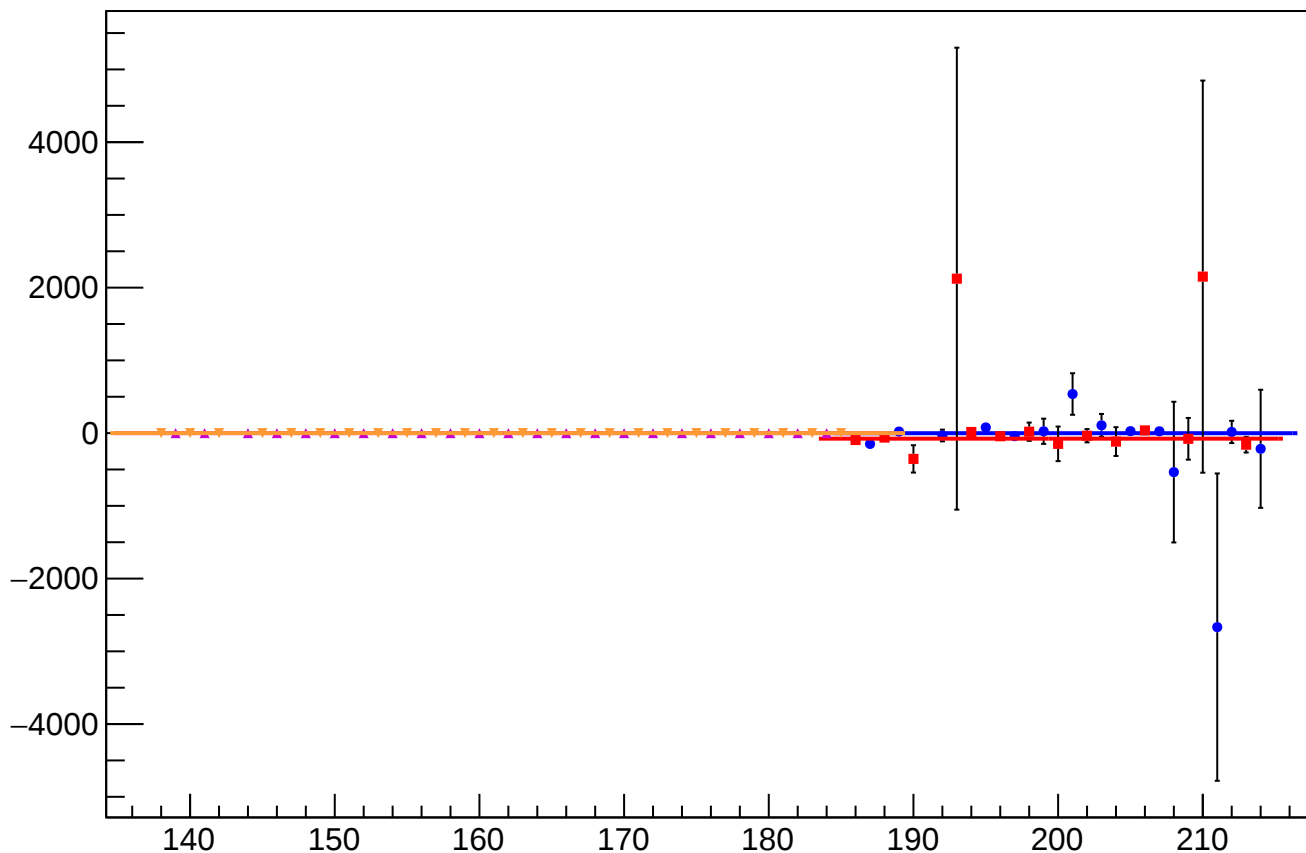
Right: -0.006 ± 0.001 χ^2/NDF : 26578.6/61

In: -0.001 ± 0.001 χ^2/NDF : 81.8/52

Out: -0.001 ± 0.001 χ^2/NDF : 26569.5/55

All: -0.001 ± 0.000 χ^2/NDF : 26651.3/108

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.264 ± 15.133 $\chi^2/\text{NDF}: 21.8/13$

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 $\chi^2/\text{NDF}: 75.3/46$

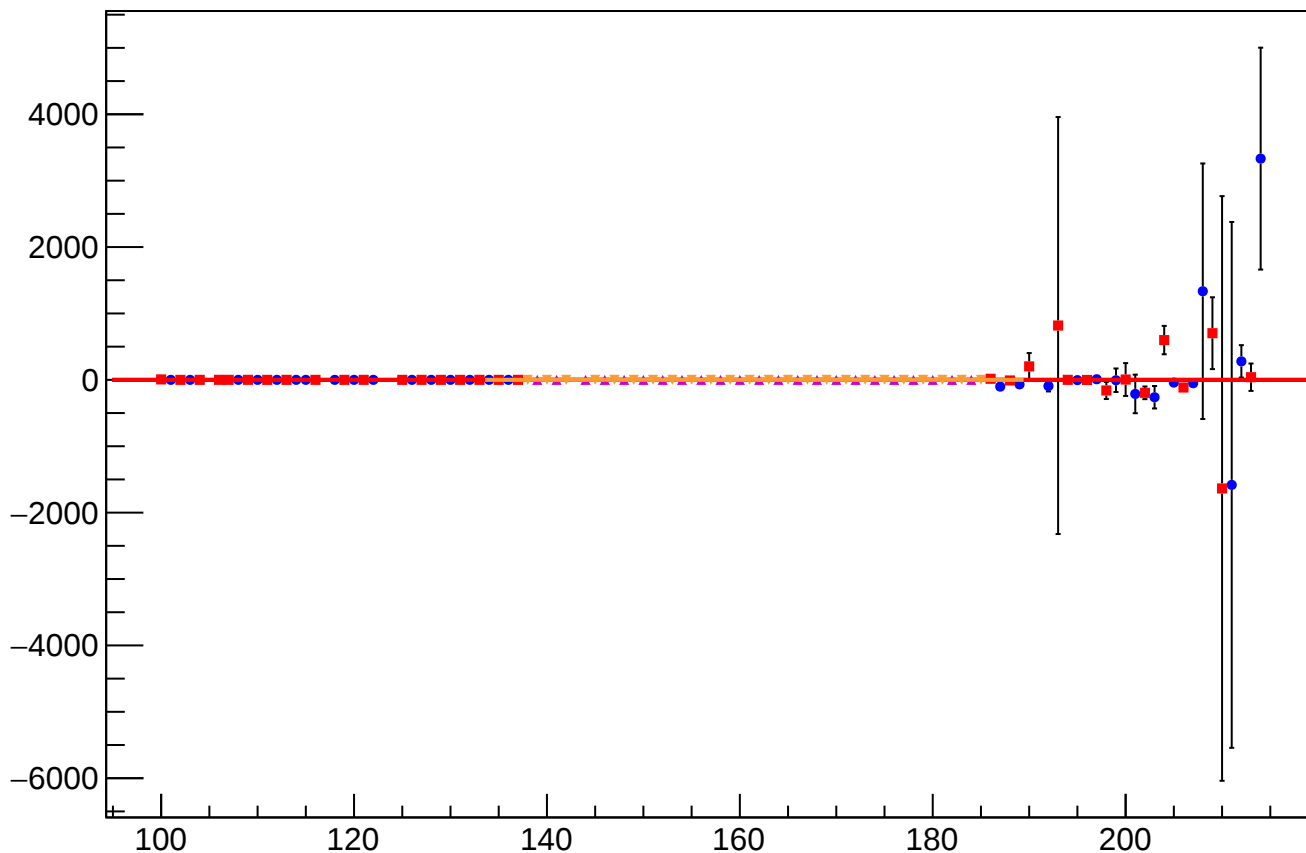
Right: -54.585 ± 8.127 $\chi^2/\text{NDF}: 55.9/27$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 56.9/36$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 116.4/37$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 176.2/74$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 43.2/29

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

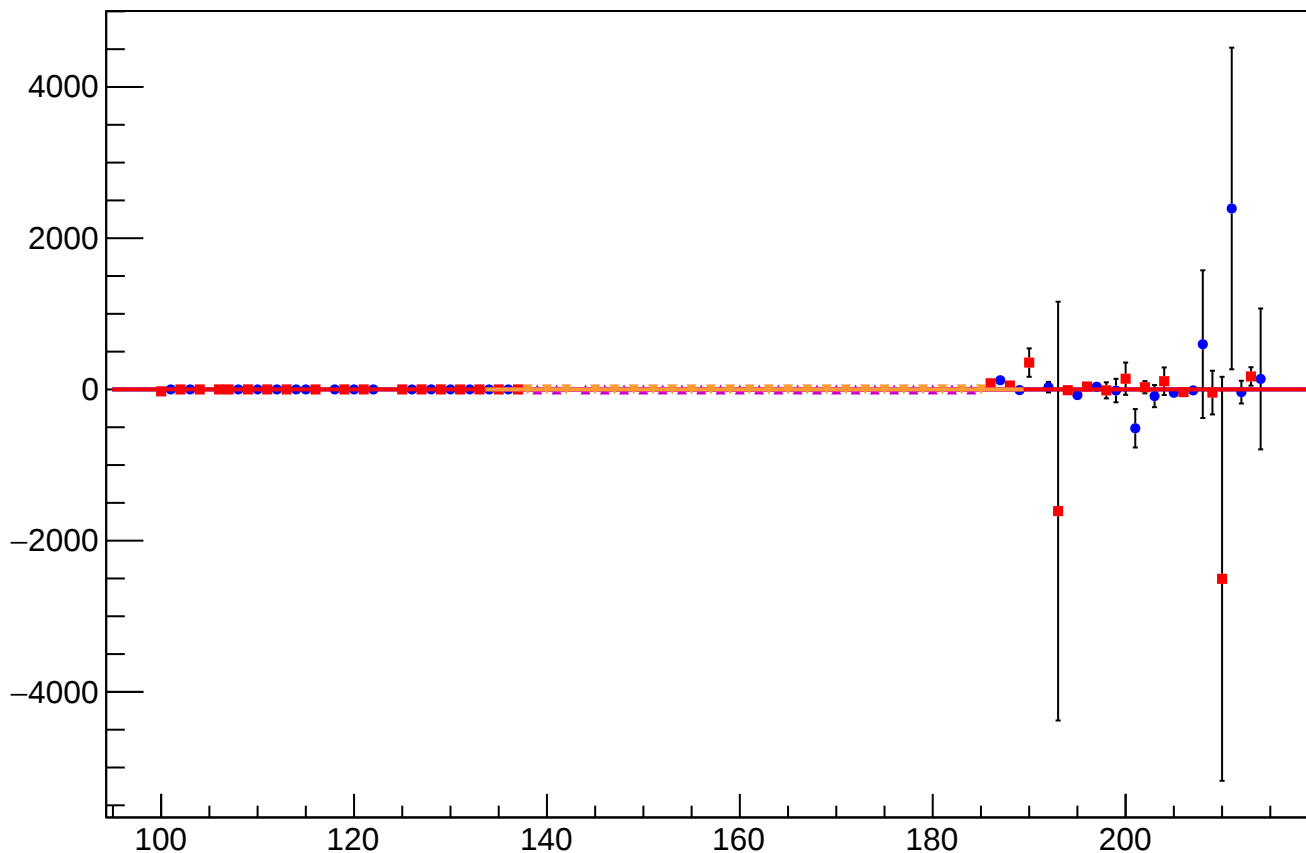
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 93.5/61

In: 0.006 $\pm$ 0.012 χ^2 /NDF:92.8/52

Out: 0.001 $\pm$ 0.012 χ^2 /NDF:81.9/55

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 174.8/108

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 51.9/29

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

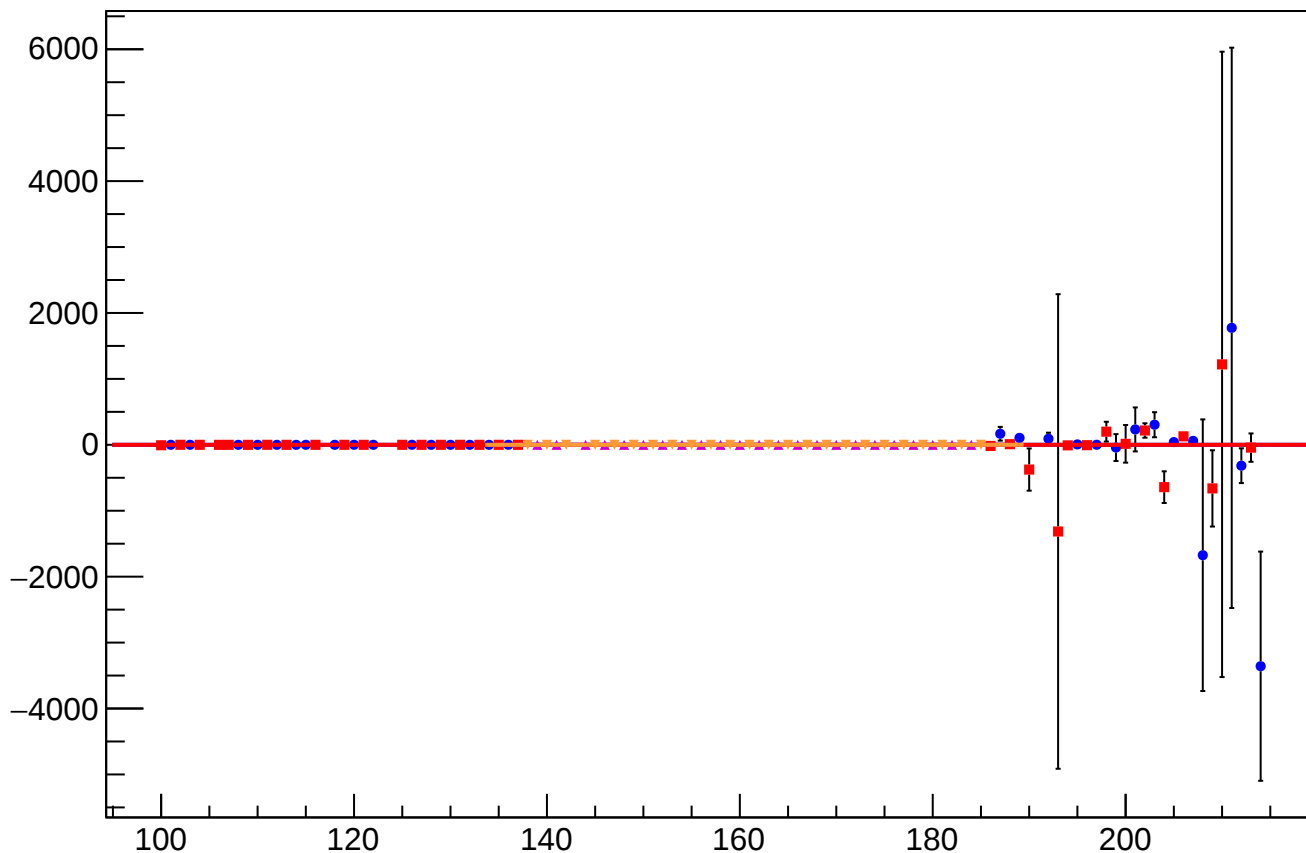
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 163.8/61

In: 0.040 $\pm$ 0.017 χ^2 /NDF:96.3/52

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:156.4/55

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 254.2/108

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 χ^2/NDF : 42.8/29

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

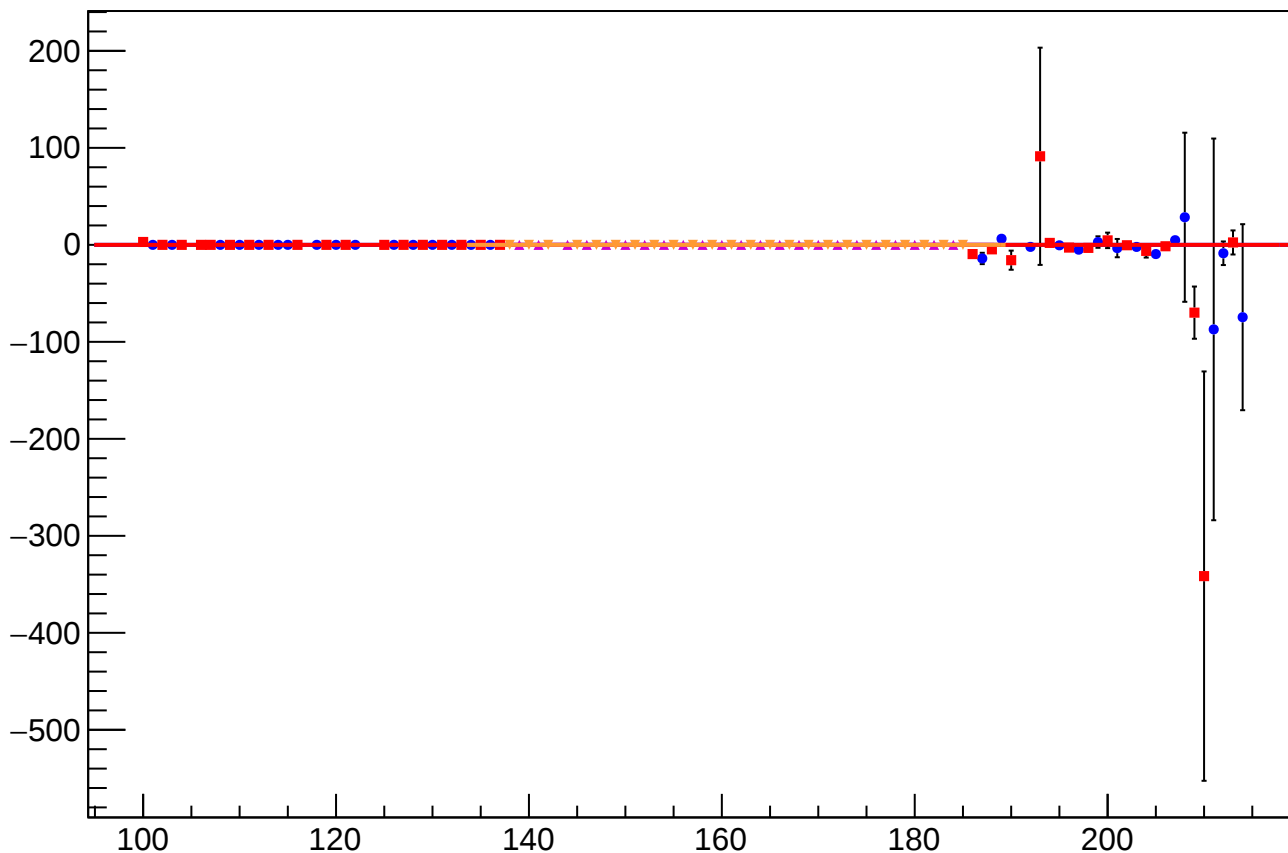
Right: -0.027 ± 0.020 χ^2/NDF : 89.7/61

In: 0.002 ± 0.014 χ^2/NDF : 93.2/52

Out: 0.005 ± 0.014 χ^2/NDF : 83.7/55

All: 0.004 ± 0.010 χ^2/NDF : 176.9/108

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 59.0/29

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

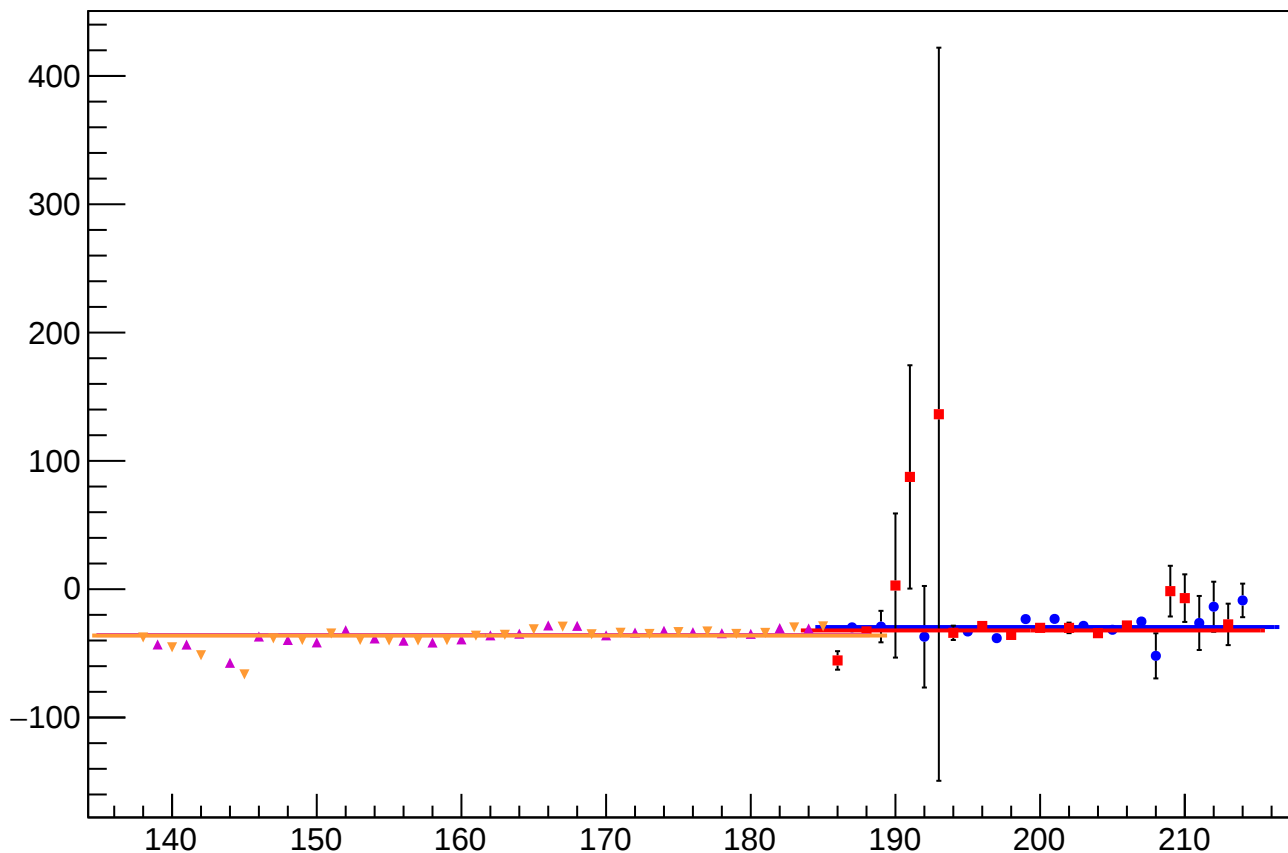
Right: -0.006 ± 0.001 χ^2/NDF : 283.3/61

In: -0.008 ± 0.001 χ^2/NDF : 98.8/52

Out: -0.008 ± 0.001 χ^2/NDF : 258.3/55

All: -0.008 ± 0.000 χ^2/NDF : 357.3/108

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.503 ± 0.855 $\chi^2/\text{NDF}: 28.9/13$

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 $\chi^2/\text{NDF}: 1970.6/46$

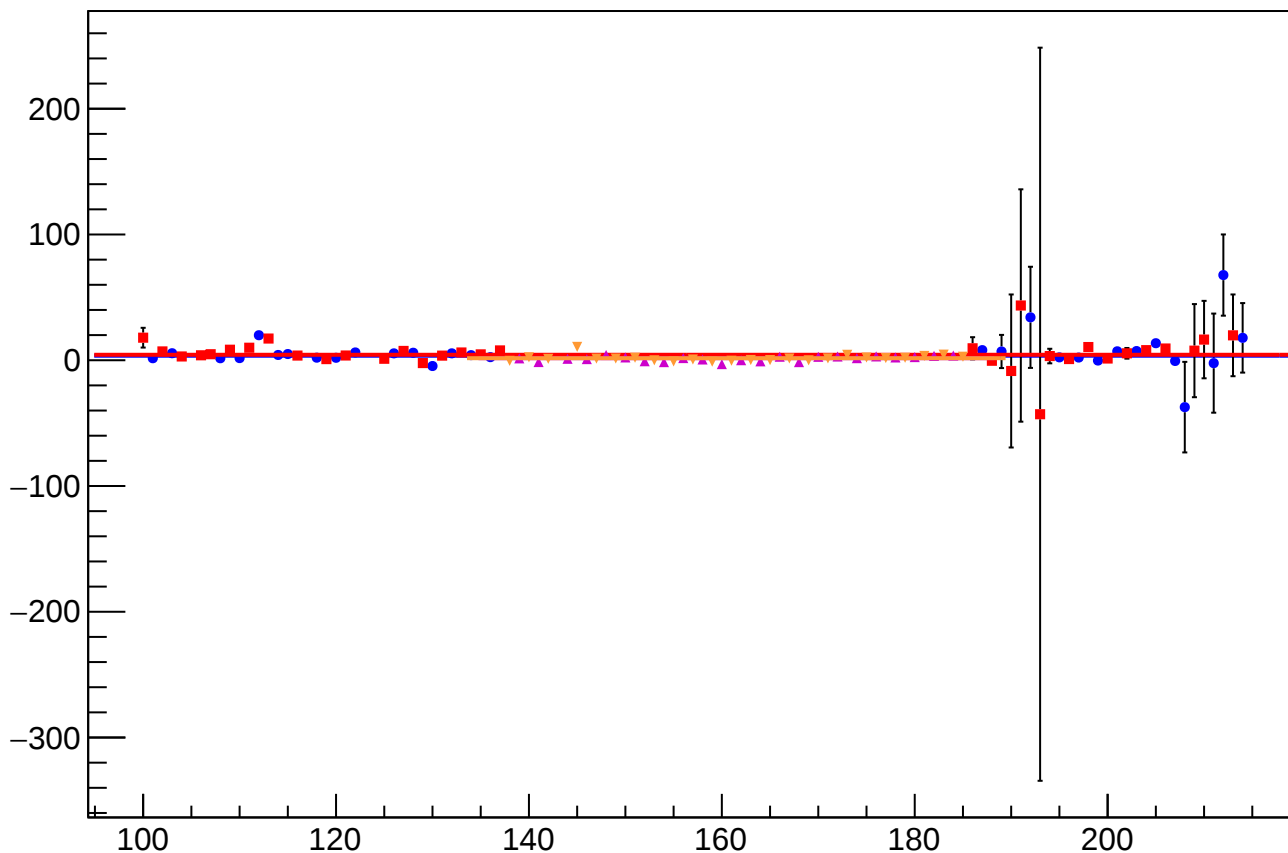
Right: -30.901 ± 0.586 $\chi^2/\text{NDF}: 59.1/28$

In: -35.480 ± 0.187 $\chi^2/\text{NDF}: 934.3/36$

Out: -35.907 ± 0.187 $\chi^2/\text{NDF}: 1163.1/38$

All: -35.693 ± 0.132 $\chi^2/\text{NDF}: 2100.0/75$

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.603 $\pm$ 0.217 χ^2 /NDF: 462.4/29

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.350 $\pm$ 0.221 χ^2 /NDF: 369.4/32

Left In: 1.641 $\pm$ 0.150 χ^2 /NDF:163.2/22

Left: 1.638 $\pm$ 0.105 χ^2 /NDF: 329.7/46

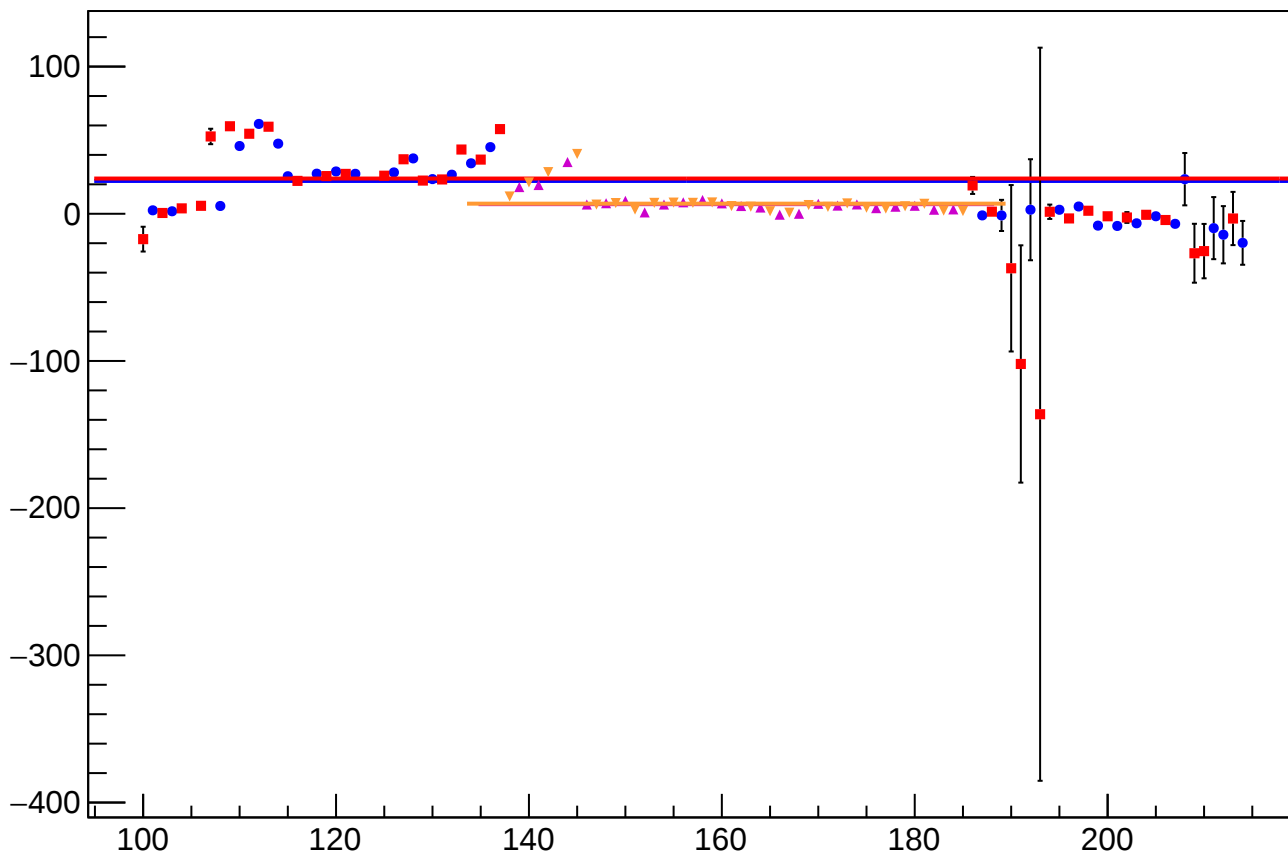
Right: 3.970 $\pm$ 0.155 χ^2 /NDF: 837.6/62

In: 2.274 $\pm$ 0.123 χ^2 /NDF:681.1/52

Out: 2.475 $\pm$ 0.123 χ^2 /NDF:640.5/56

All: 2.375 $\pm$ 0.087 χ^2 /NDF: 1323.0/109

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.299+/-0.370 χ^2 /NDF: 2819.9/29

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

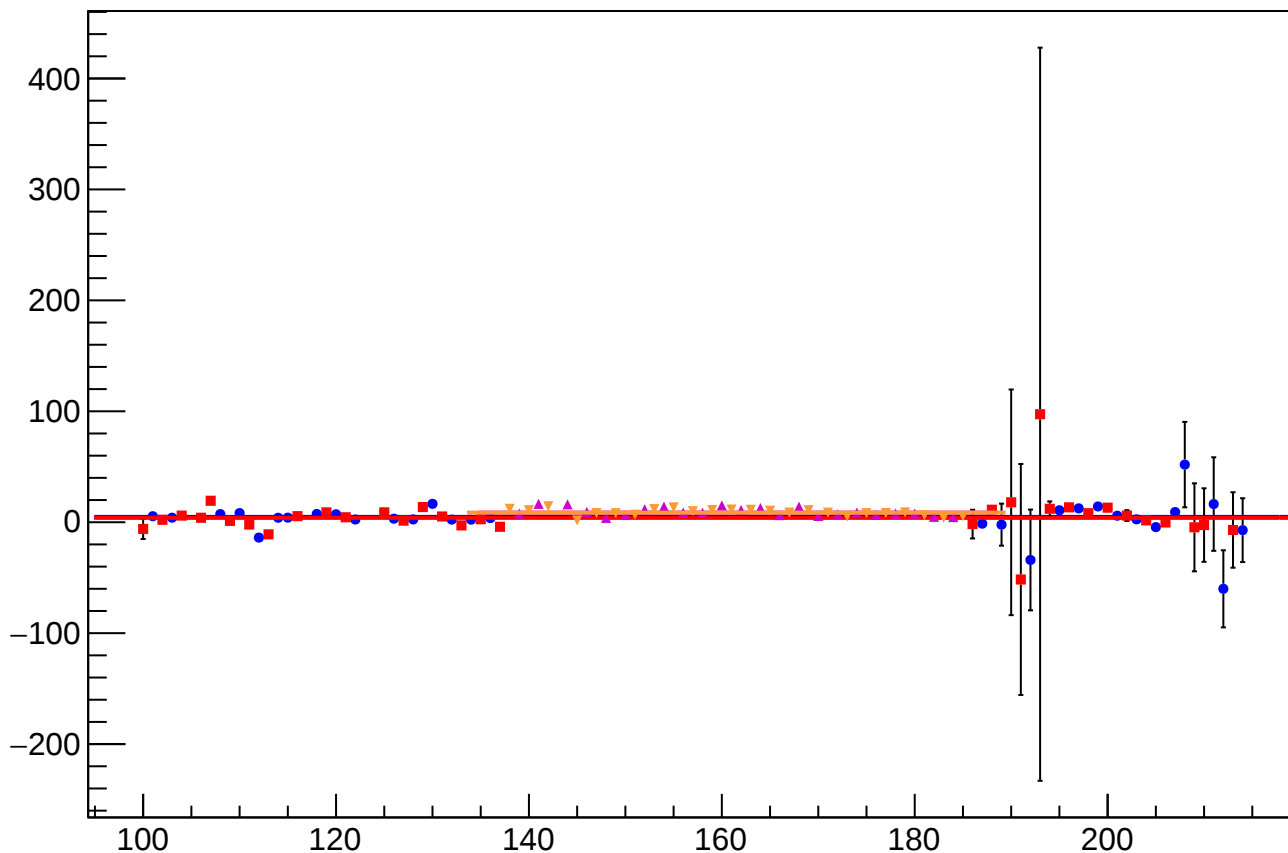
Right: 23.135+/-0.259 χ^2 /NDF: 6129.4/62

In: 9.840+/-0.169 χ^2 /NDF:5281.6/52

Out: 10.600+/-0.169 χ^2 /NDF:6335.4/56

All: 10.220+/-0.120 χ^2 /NDF: 11627.1/109

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.803 $\pm$ 0.250 χ^2 /NDF: 576.4/29

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

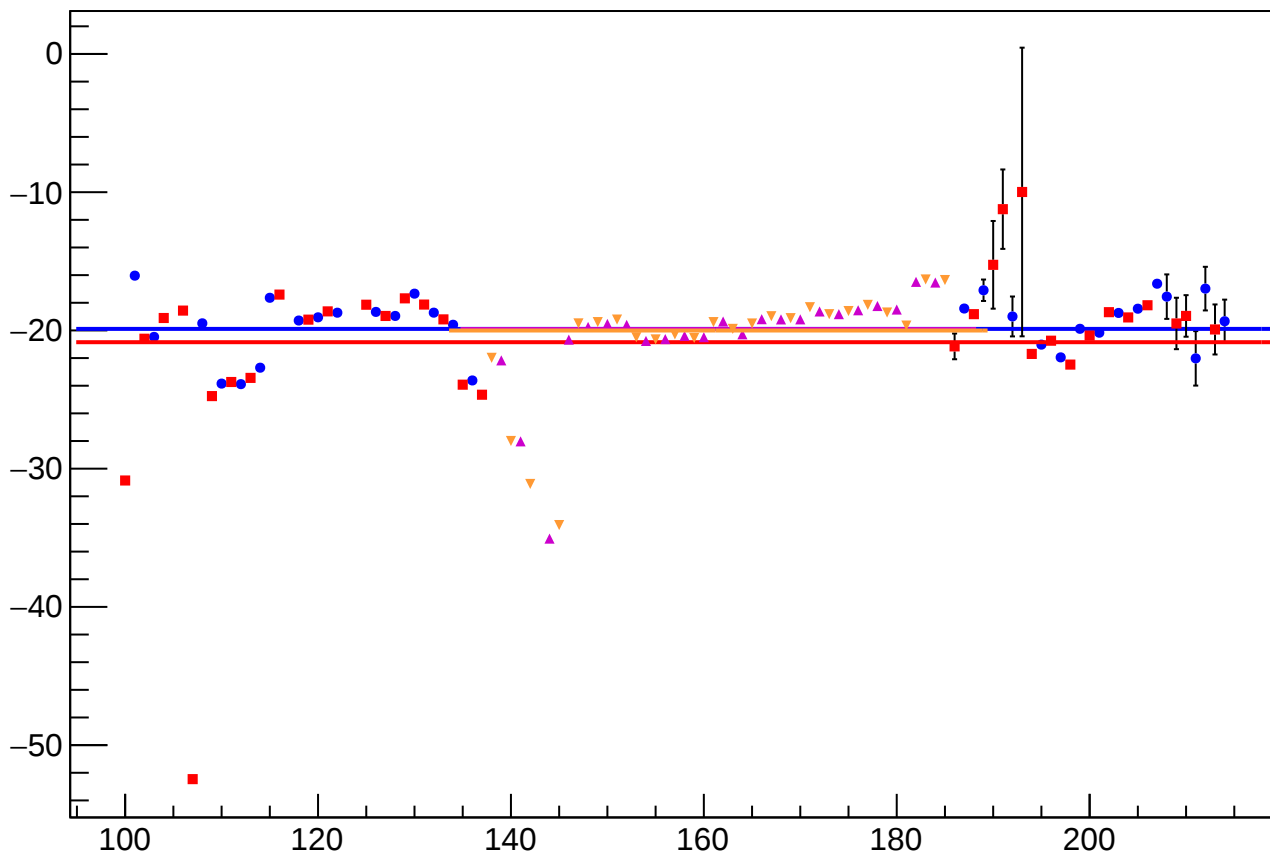
Right: 4.377 $\pm$ 0.178 χ^2 /NDF: 1171.6/62

In: 7.444 $\pm$ 0.141 χ^2 /NDF:1176.5/52

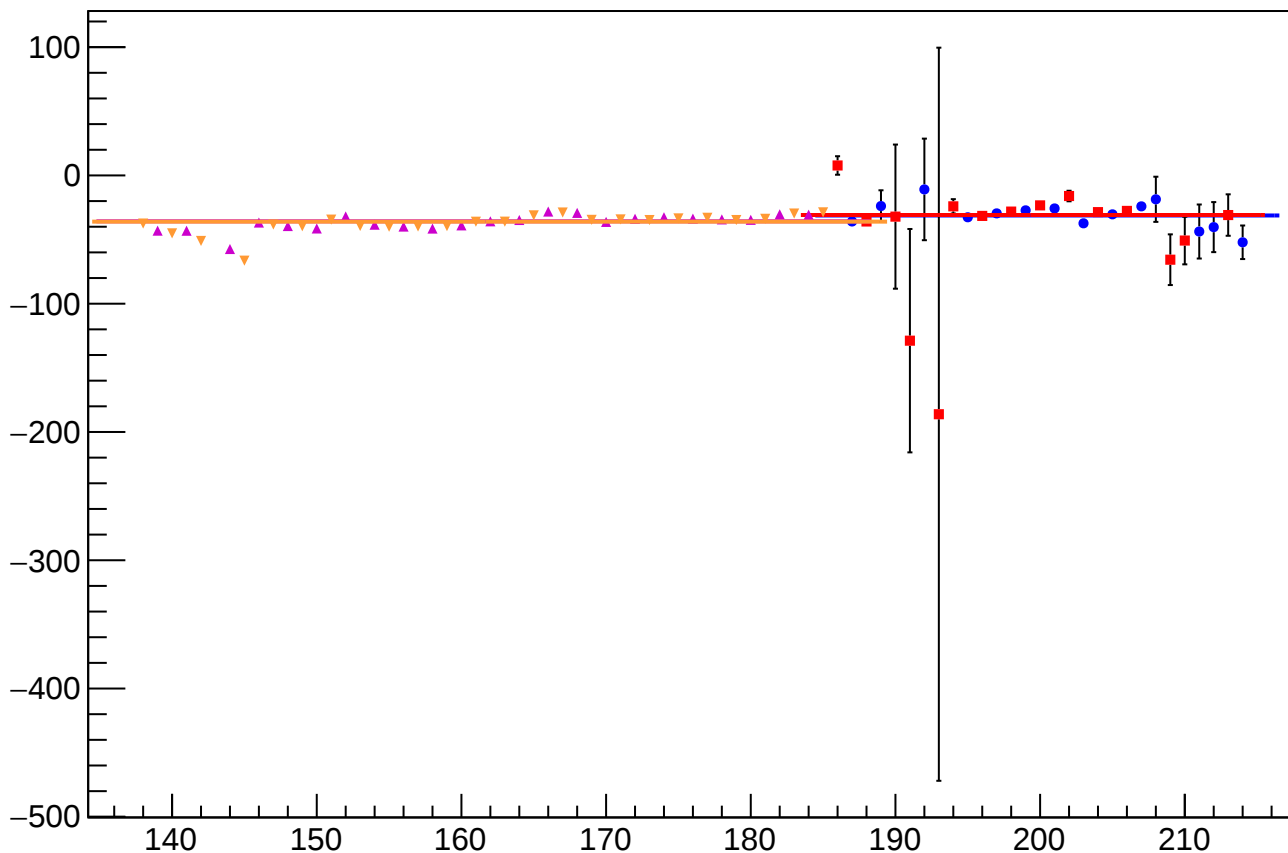
Out: 7.237 $\pm$ 0.141 χ^2 /NDF:1073.1/56

All: 7.341 $\pm$ 0.099 χ^2 /NDF: 2250.7/109

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected

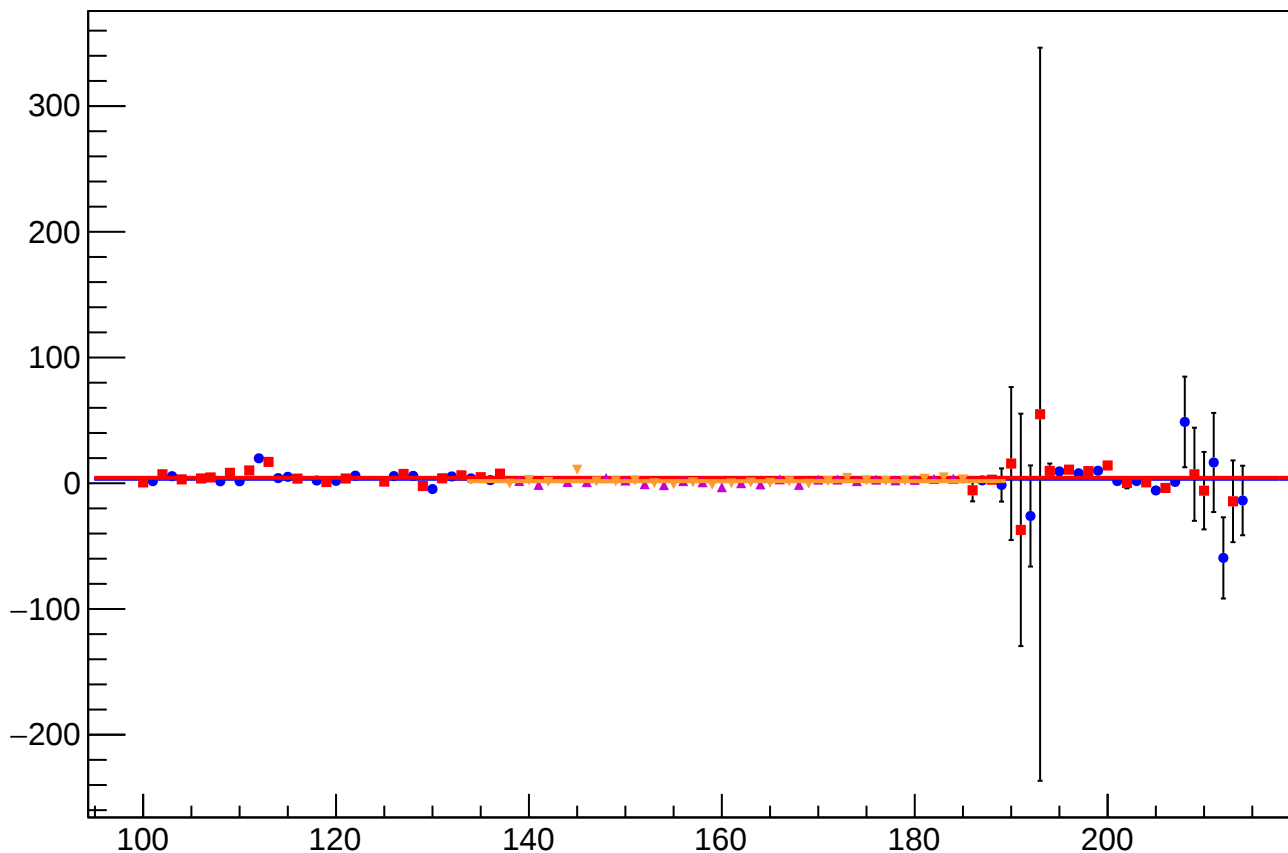


Right In: -31.220 ± 0.857 χ^2/NDF : 31.2/13
 Left Out: -36.031 ± 0.192 χ^2/NDF : 1121.3/23
 Right Out: -30.852 ± 0.808 χ^2/NDF : 76.2/14
 Left In: -35.766 ± 0.191 χ^2/NDF : 842.6/22

Left: -35.898 ± 0.135 χ^2/NDF : 1964.8/46
 Right: -31.025 ± 0.588 χ^2/NDF : 107.5/28
 In: -35.551 ± 0.187 χ^2/NDF : 900.5/36
 Out: -35.754 ± 0.187 χ^2/NDF : 1236.3/38

All: -35.653 ± 0.132 χ^2/NDF : 2137.5/75

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.566 $\pm$ 0.217 χ^2 /NDF: 461.9/29

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.320 $\pm$ 0.217 χ^2 /NDF: 378.7/32

Left In: 1.705 $\pm$ 0.149 χ^2 /NDF:163.0/22

Left: 1.714 $\pm$ 0.105 χ^2 /NDF: 331.1/46

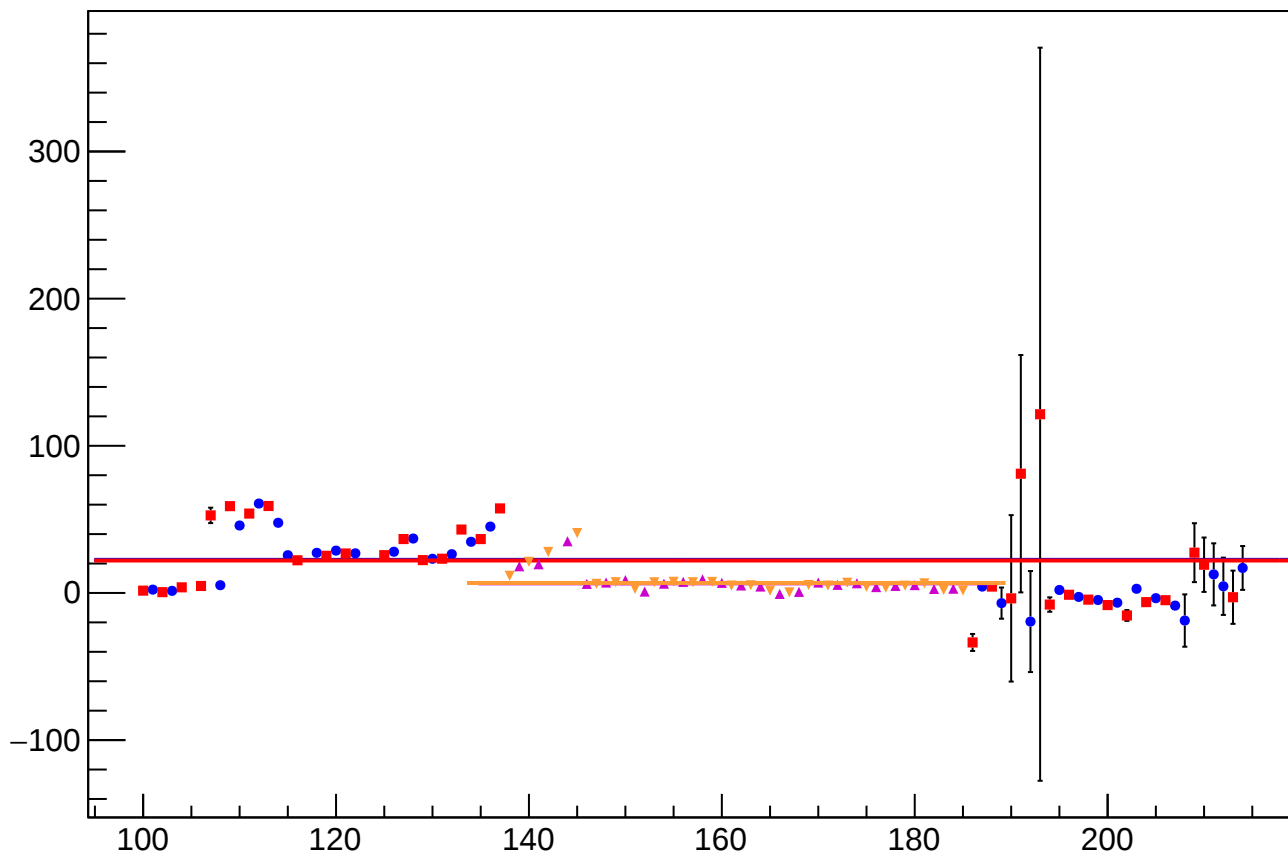
Right: 3.942 $\pm$ 0.153 χ^2 /NDF: 846.6/62

In: 2.305 $\pm$ 0.123 χ^2 /NDF:674.9/52

Out: 2.545 $\pm$ 0.122 χ^2 /NDF:644.7/56

All: 2.426 $\pm$ 0.087 χ^2 /NDF: 1321.5/109

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.480 $\pm$ 0.370 χ^2 /NDF: 2700.9/29

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

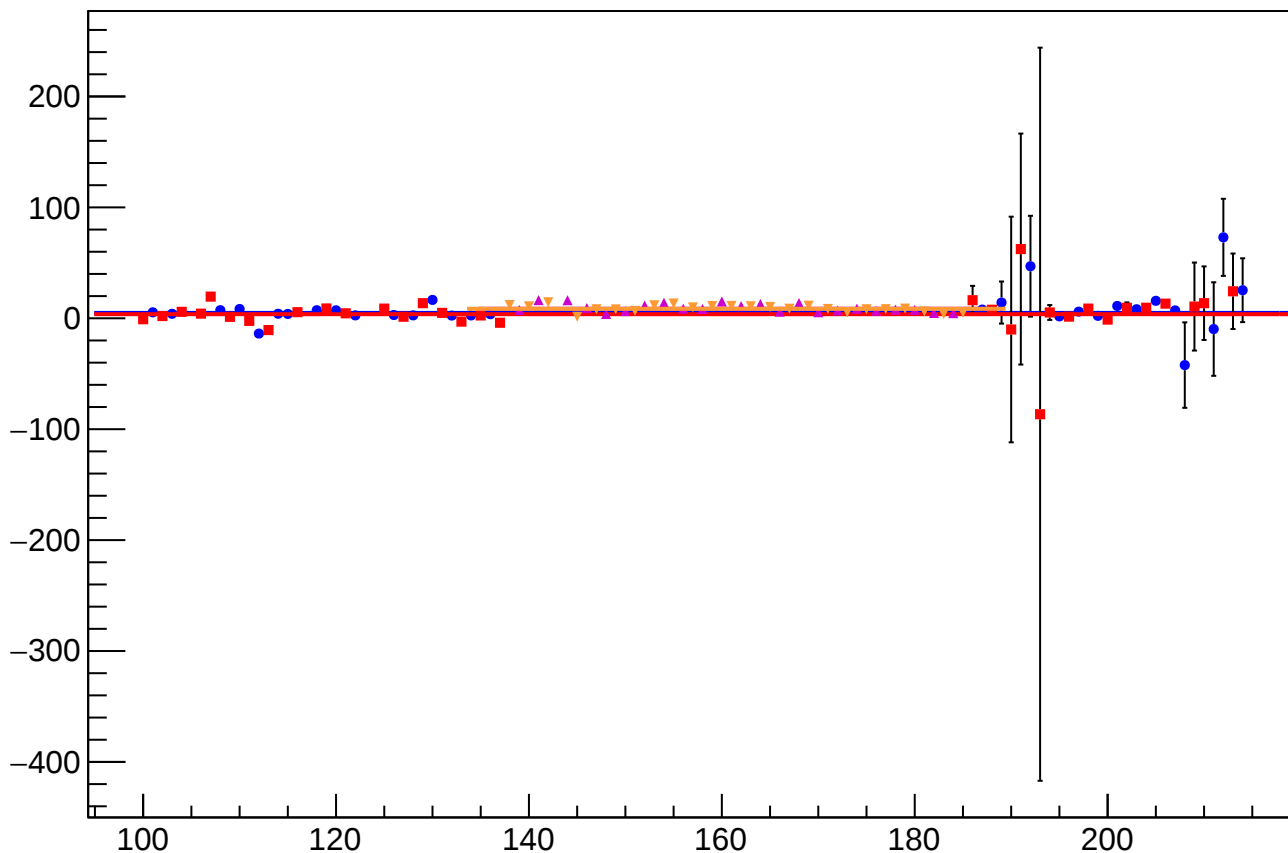
Right: 22.255 $\pm$ 0.254 χ^2 /NDF: 6362.7/62

In: 9.870 $\pm$ 0.169 χ^2 /NDF:5189.5/52

Out: 10.309 $\pm$ 0.168 χ^2 /NDF:6432.7/56

All: 10.092 $\pm$ 0.119 χ^2 /NDF: 11625.6/109

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.850 $\pm$ 0.250 χ^2 /NDF: 564.9/29

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

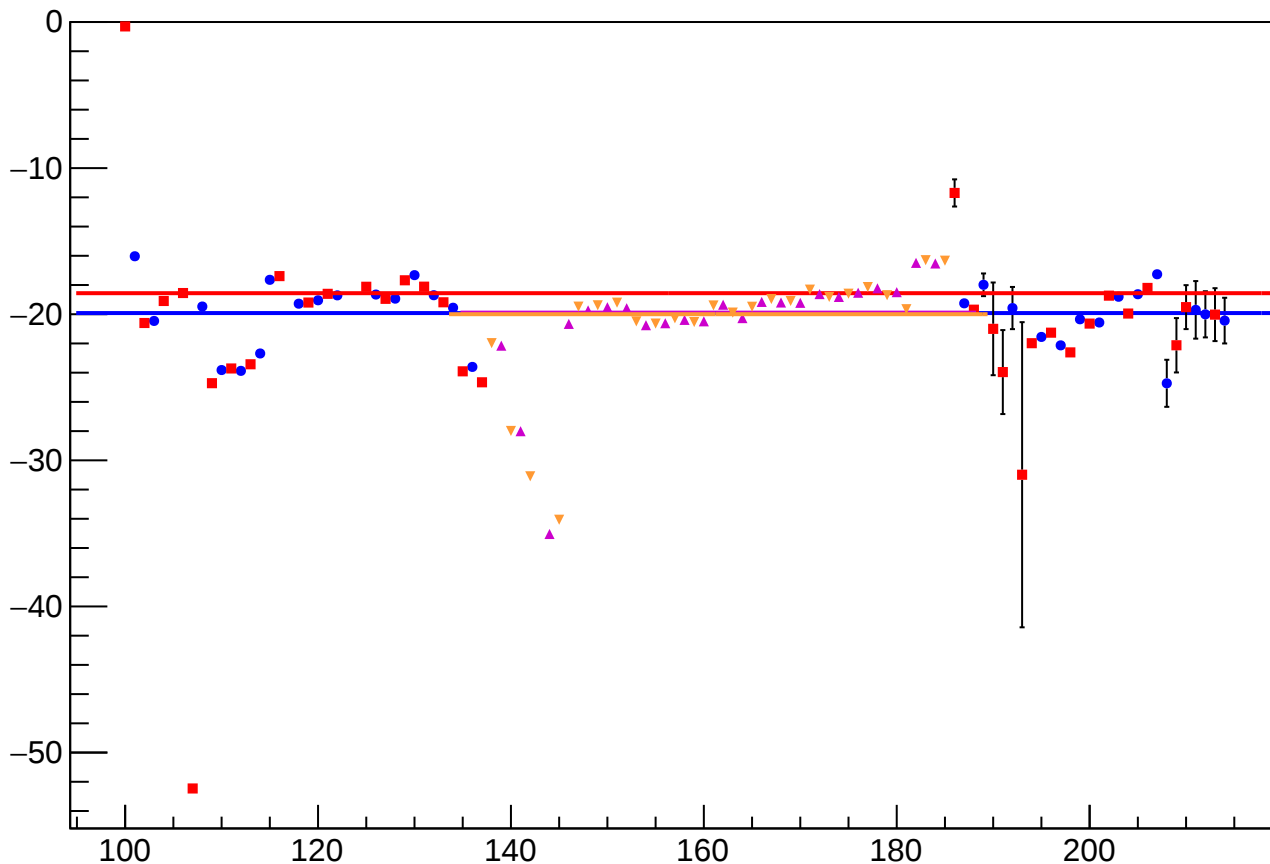
Right: 4.275 $\pm$ 0.177 χ^2 /NDF: 1164.9/62

In: 7.402 $\pm$ 0.141 χ^2 /NDF: 1159.4/52

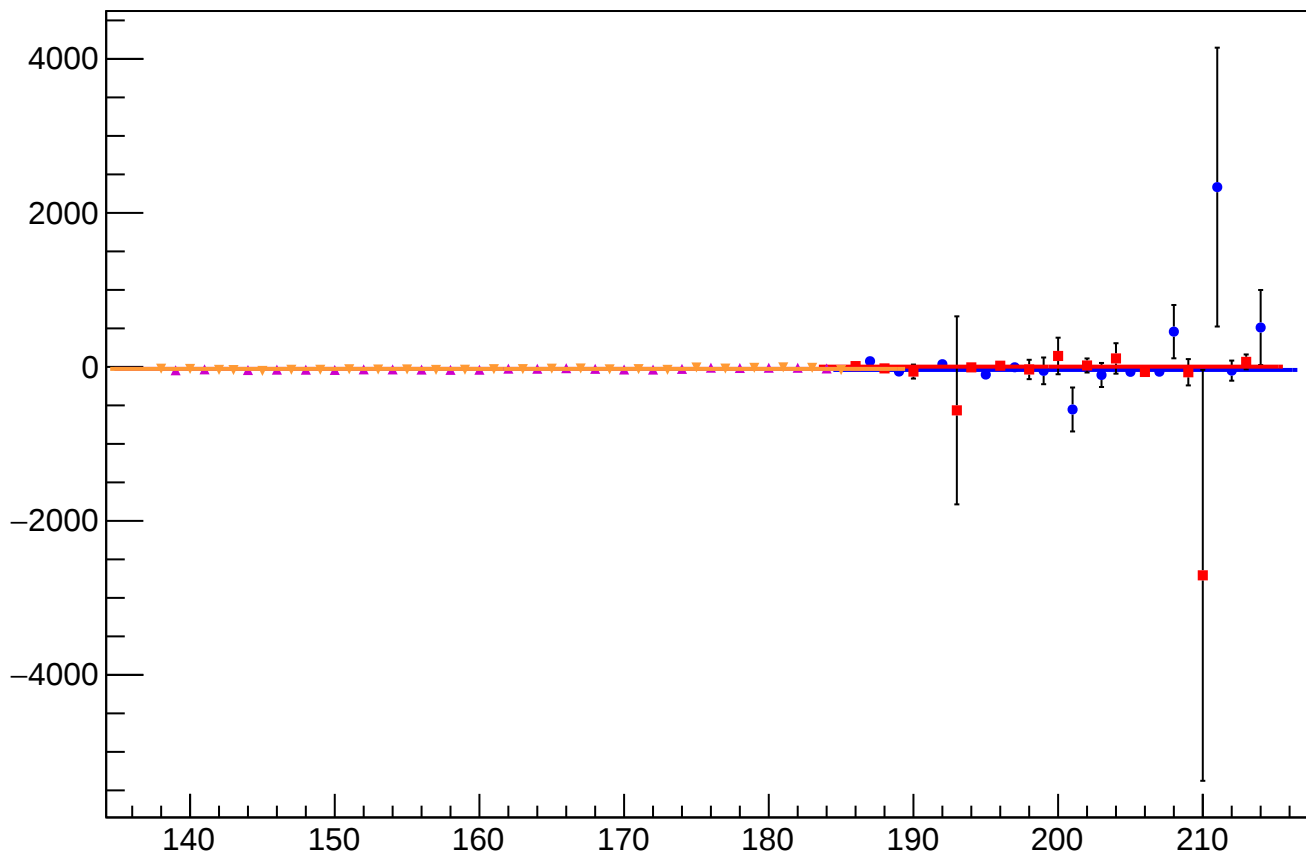
Out: 7.056 $\pm$ 0.140 χ^2 /NDF: 1097.0/56

All: 7.228 $\pm$ 0.099 χ^2 /NDF: 2259.4/109

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.570 ± 12.980 χ^2/NDF : 21.0/13

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

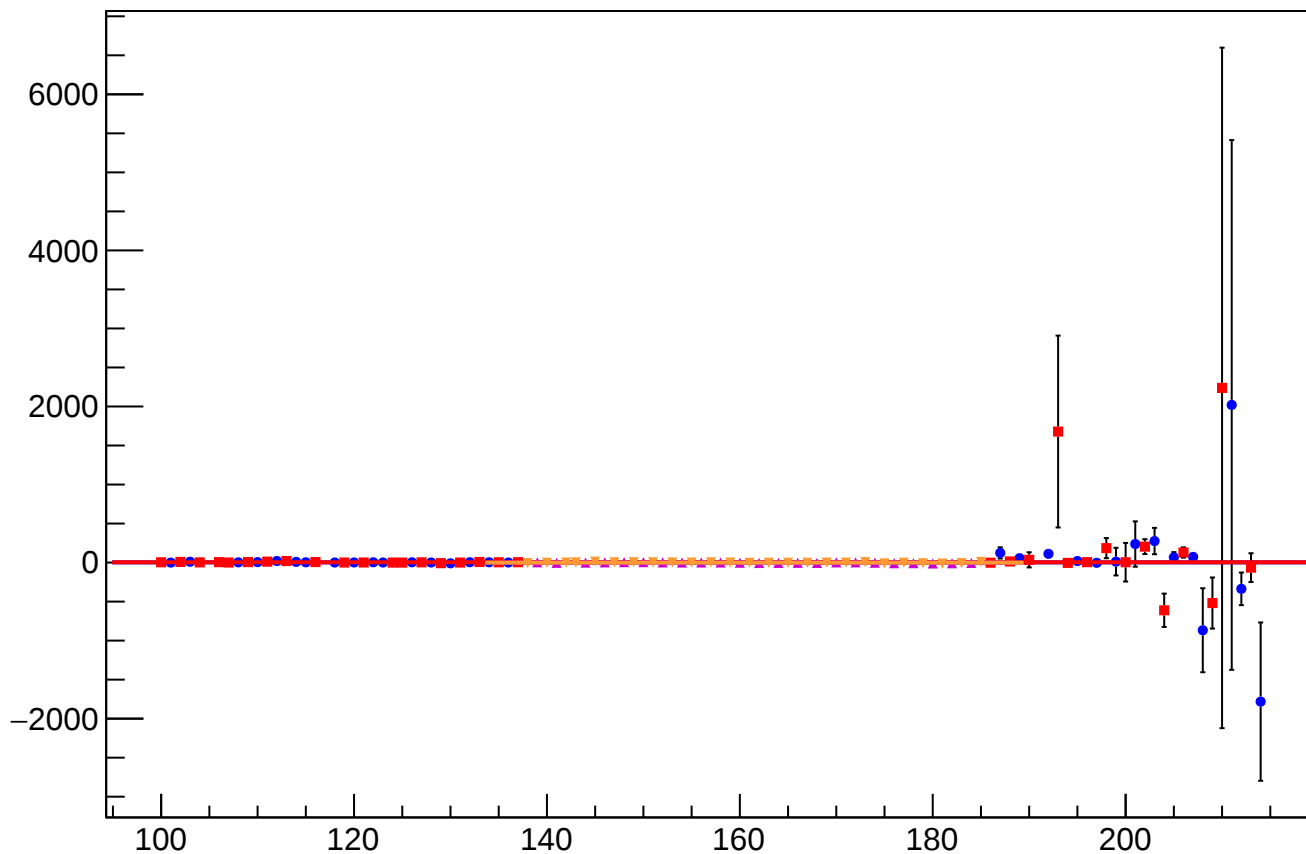
Right: -8.741 ± 6.861 χ^2/NDF : 36.1/27

In: -26.055 ± 0.195 χ^2/NDF : 3301.6/36

Out: -25.868 ± 0.192 χ^2/NDF : 4178.2/38

All: -25.960 ± 0.137 χ^2/NDF : 7480.2/75

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.476+/-0.315 χ^2/NDF : 322.3/30

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

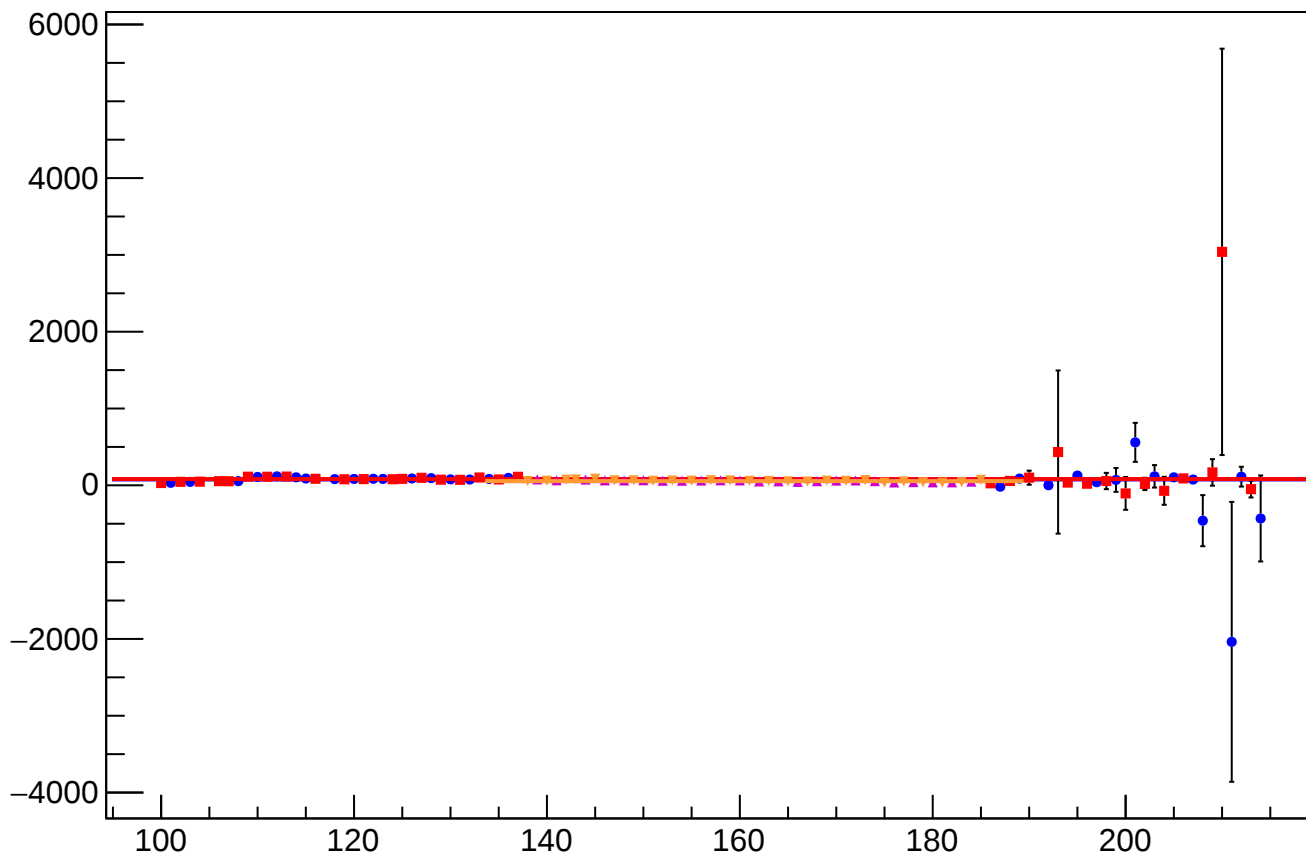
Right: 3.072+/-0.227 χ^2/NDF : 622.4/63

In: -0.242+/-0.136 χ^2/NDF : 1480.4/53

Out: 0.075+/-0.133 χ^2/NDF : 1762.6/57

All: -0.081+/-0.095 χ^2/NDF : 3245.8/111

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.532 $\pm$ 0.576 χ^2 /NDF: 2274.2/30

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

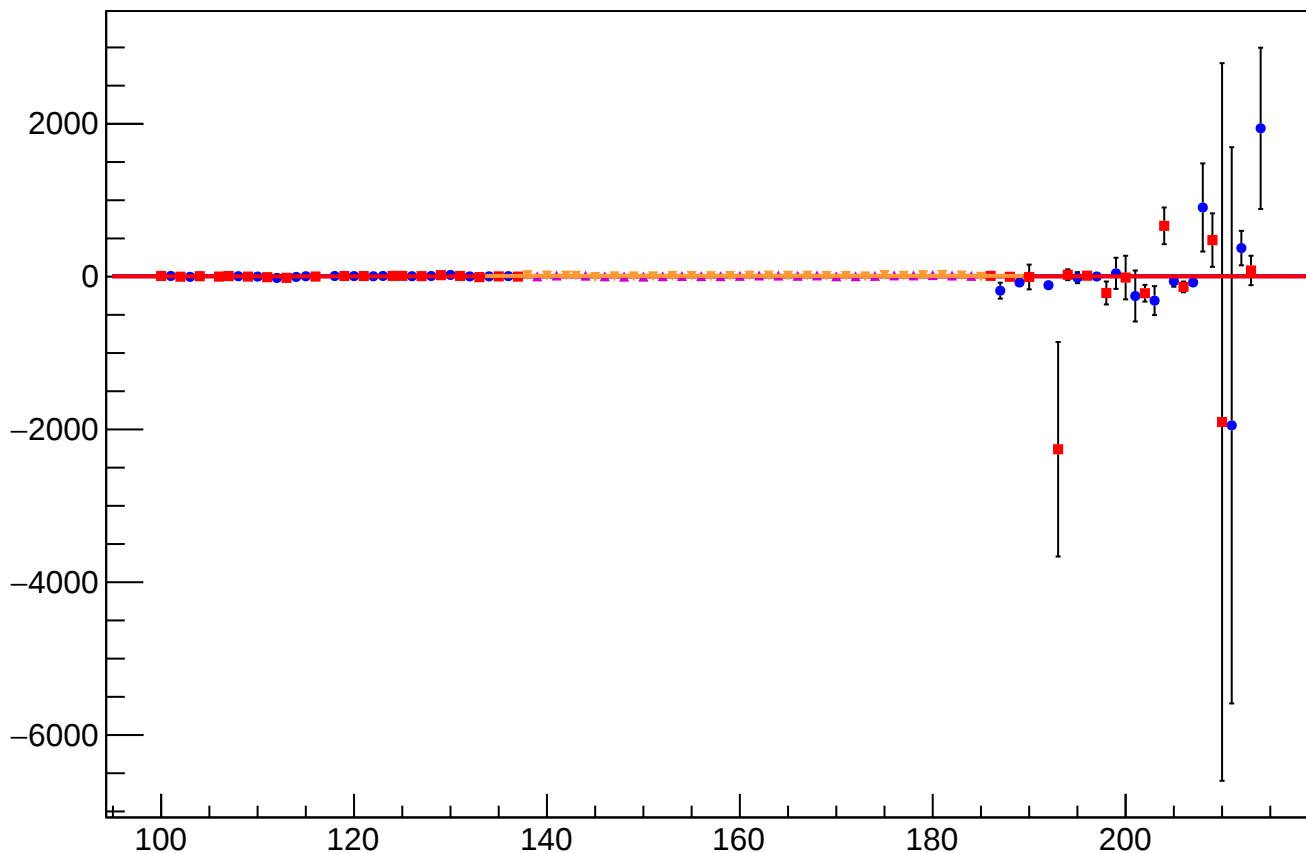
Right: 78.949 $\pm$ 0.412 χ^2 /NDF: 3945.8/63

In: 57.245 $\pm$ 0.183 χ^2 /NDF: 7223.9/53

Out: 57.609 $\pm$ 0.182 χ^2 /NDF: 8022.2/57

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15248.0/111

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.408+/-0.361 χ^2/NDF : 413.4/30

Left Out: 9.737+/-0.168 χ^2/NDF :1450.2/24

Right Out: 3.580+/-0.375 χ^2/NDF : 444.3/32

Left In: 9.803+/-0.172 χ^2/NDF :1158.7/22

Left: 9.769+/-0.120 χ^2/NDF : 2609.0/47

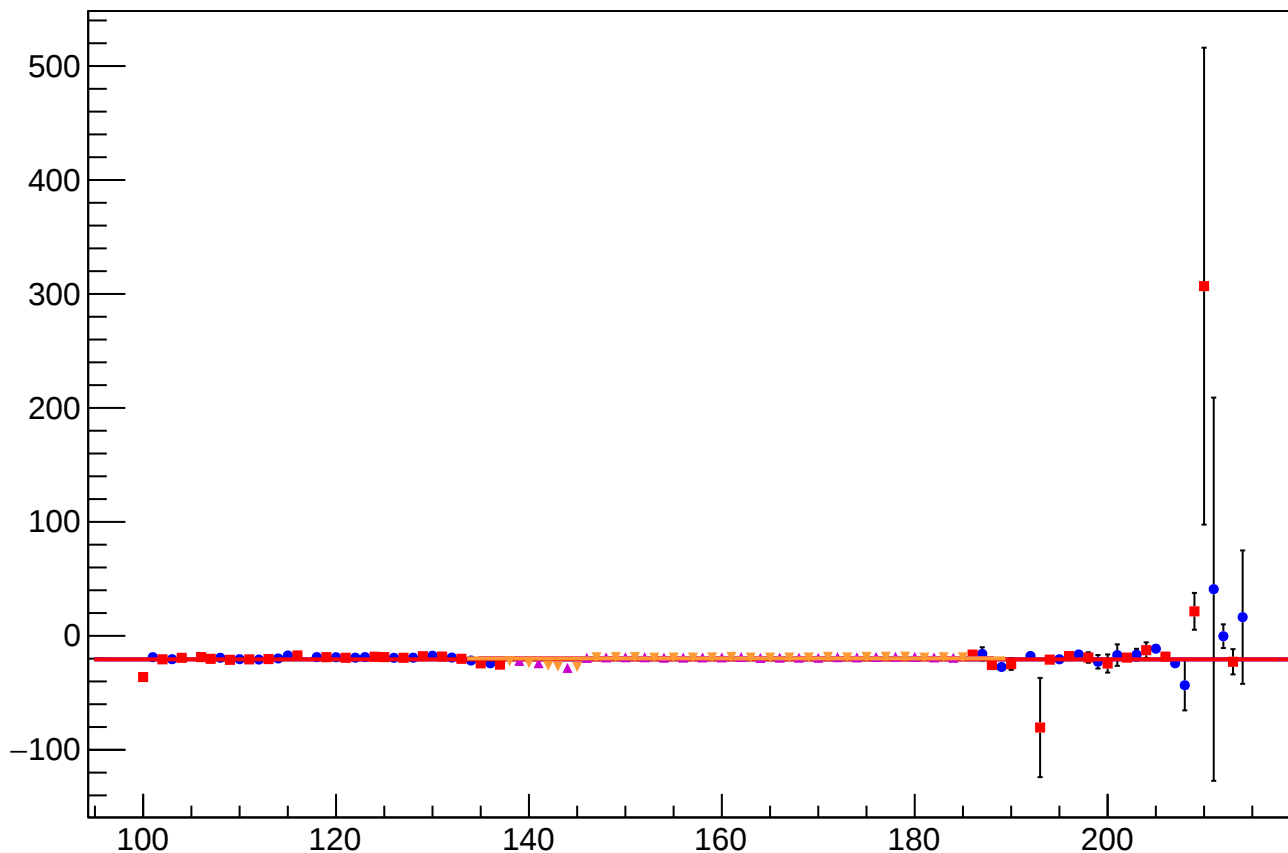
Right: 4.530+/-0.260 χ^2/NDF : 870.0/63

In: 8.992+/-0.155 χ^2/NDF :1693.2/53

Out: 8.712+/-0.153 χ^2/NDF :2118.7/57

All: 8.851+/-0.109 χ^2/NDF : 3813.5/111

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 $\pm$ 0.019 χ^2 /NDF: 12459.4/30

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

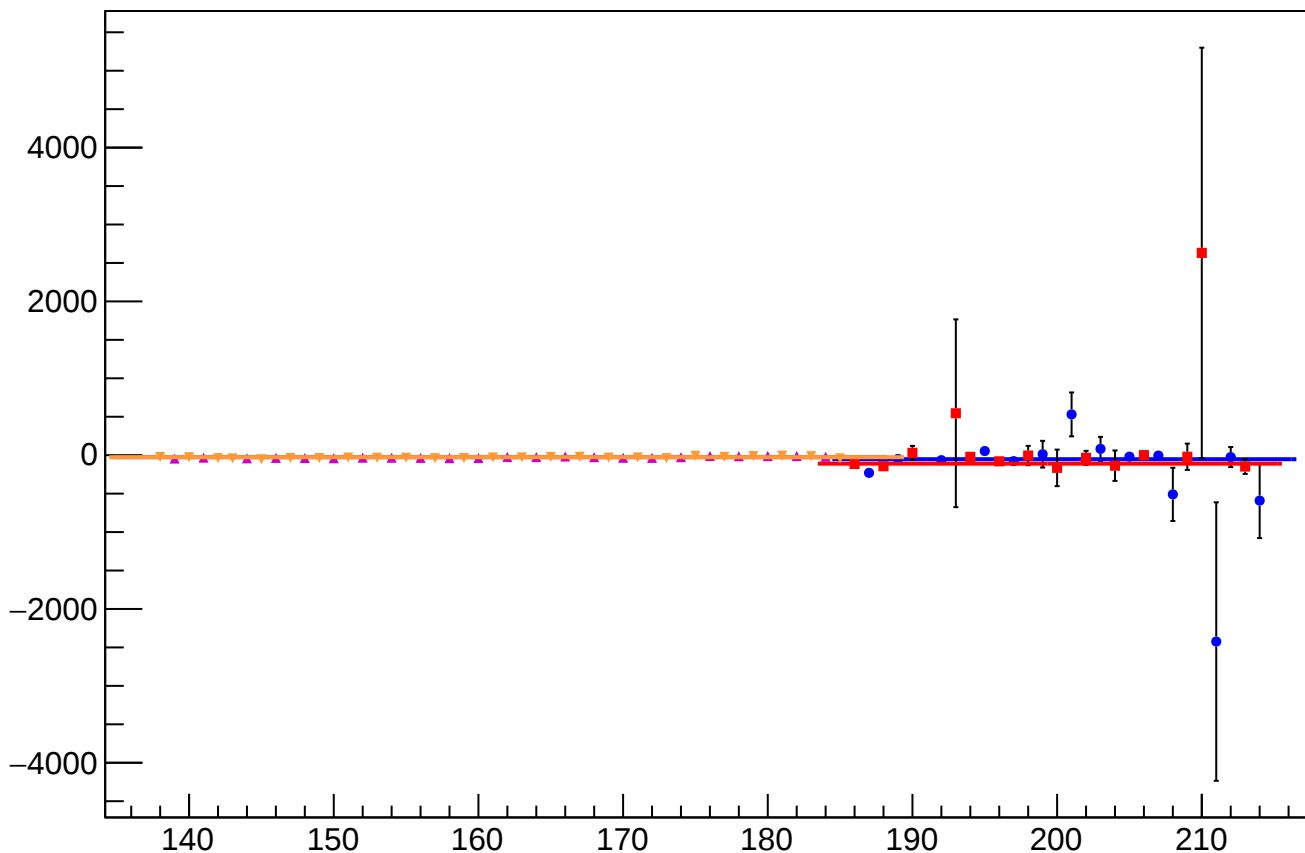
Right: -20.641 $\pm$ 0.014 χ^2 /NDF: 26278.6/63

In: -19.610 $\pm$ 0.007 χ^2 /NDF: 68967.6/53

Out: -19.890 $\pm$ 0.007 χ^2 /NDF: 107158.7/57

All: -19.751 $\pm$ 0.005 χ^2 /NDF: 176854.9/111

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected

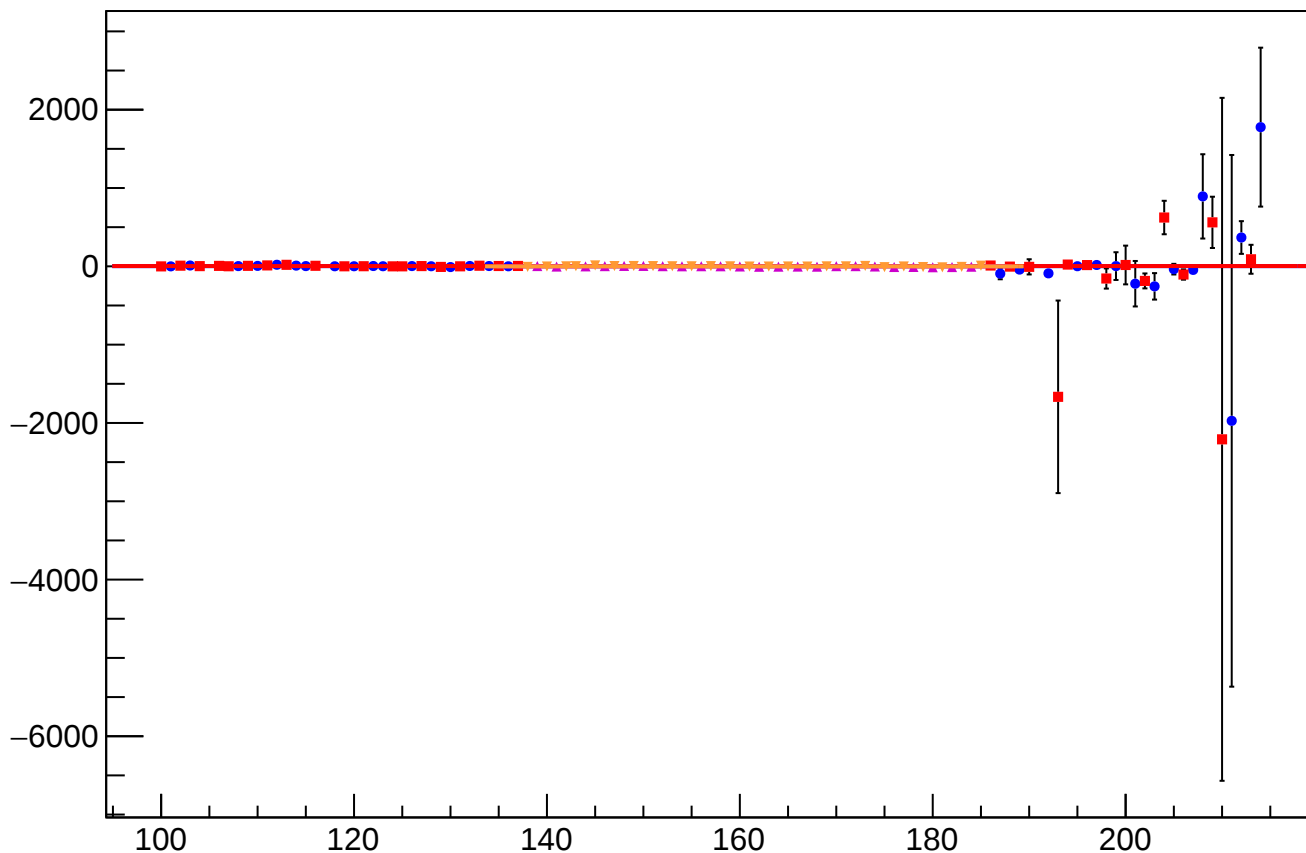


Right In: -52.223 ± 12.990 $\chi^2/\text{NDF}: 32.3/13$
 Left Out: -25.899 ± 0.192 $\chi^2/\text{NDF}: 4127.5/24$
 Right Out: -110.069 ± 8.088 $\chi^2/\text{NDF}: 17.0/13$
 Left In: -26.046 ± 0.195 $\chi^2/\text{NDF}: 3246.7/22$

Left: -25.971 ± 0.137 $\chi^2/\text{NDF}: 7374.6/47$
 Right: -93.909 ± 6.866 $\chi^2/\text{NDF}: 63.6/27$
 In: -26.052 ± 0.195 $\chi^2/\text{NDF}: 3283.1/36$
 Out: -25.946 ± 0.192 $\chi^2/\text{NDF}: 4252.8/38$

All: -25.998 ± 0.137 $\chi^2/\text{NDF}: 7536.0/75$

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected

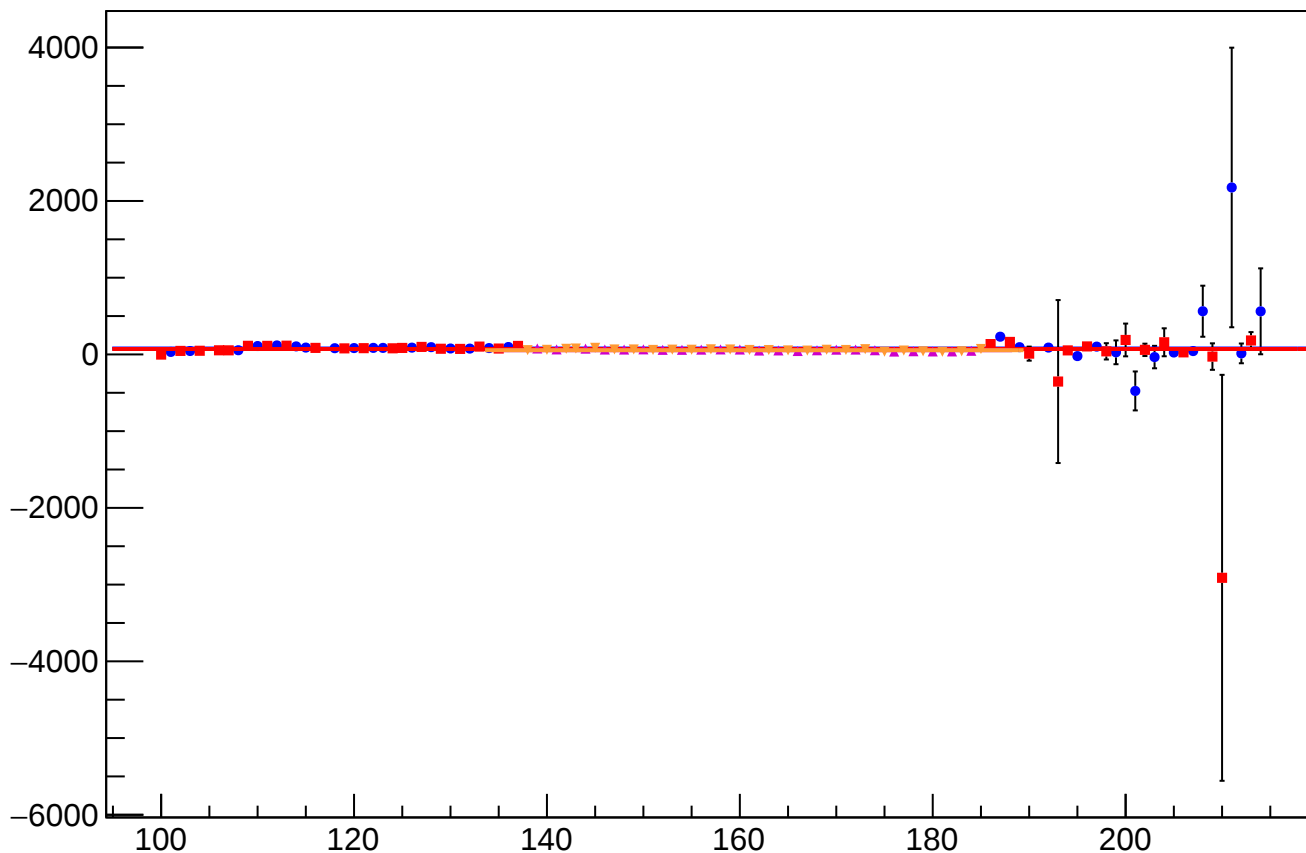


Right In: 2.439+/-0.315 χ^2/NDF : 314.7/30
 Left Out: -0.596+/-0.146 χ^2/NDF : 1310.7/24
 Right Out: 3.593+/-0.318 χ^2/NDF : 302.4/32
 Left In: -0.795+/-0.151 χ^2/NDF : 1106.3/22

Left: -0.693+/-0.105 χ^2/NDF : 2417.9/47
 Right: 3.011+/-0.224 χ^2/NDF : 623.7/63
 In: -0.193+/-0.136 χ^2/NDF : 1506.8/53
 Out: 0.136+/-0.133 χ^2/NDF : 1756.4/57

All: -0.025+/-0.095 χ^2/NDF : 3266.2/111

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.709 $\pm$ 0.576 χ^2 /NDF: 2300.8/30

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

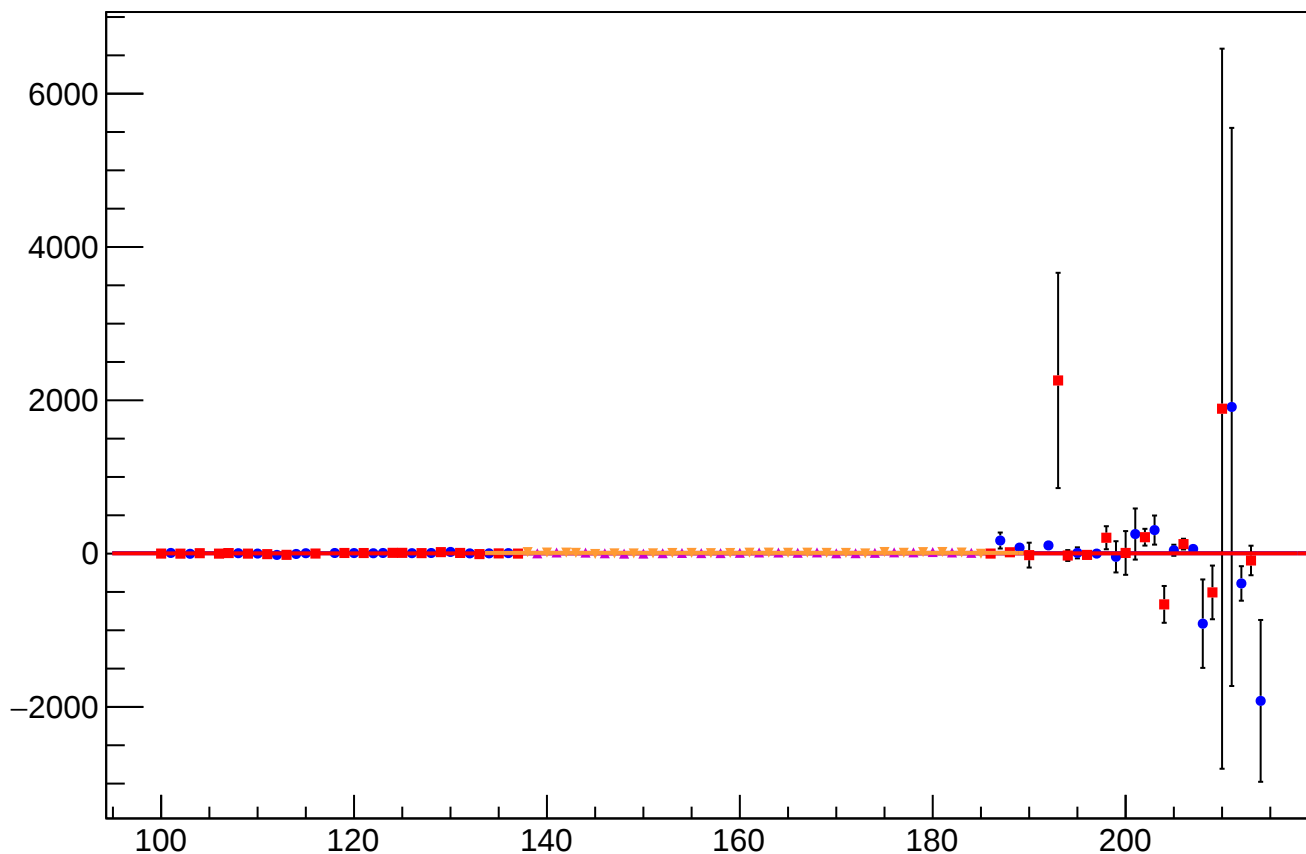
Right: 73.582 $\pm$ 0.397 χ^2 /NDF: 6851.9/63

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7228.8/53

Out: 56.811 $\pm$ 0.181 χ^2 /NDF: 9779.6/57

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17011.7/111

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.444 $\pm$ 0.361 χ^2 /NDF: 407.5/30

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

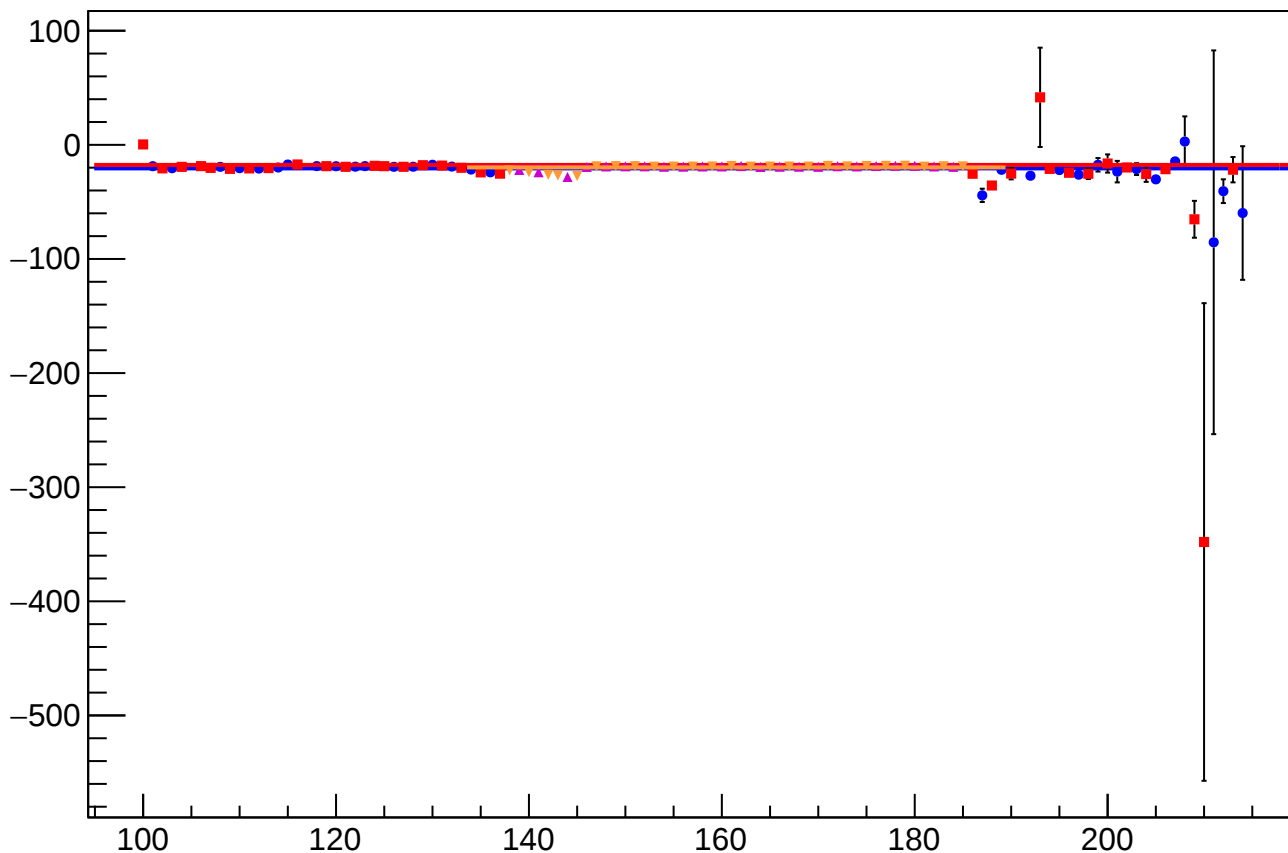
Right: 4.377 $\pm$ 0.257 χ^2 /NDF: 871.9/63

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1714.0/53

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2140.8/57

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3857.8/111

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 $\chi^2/\text{NDF}: 12520.2/30$

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 $\chi^2/\text{NDF}: 145502.5/47$

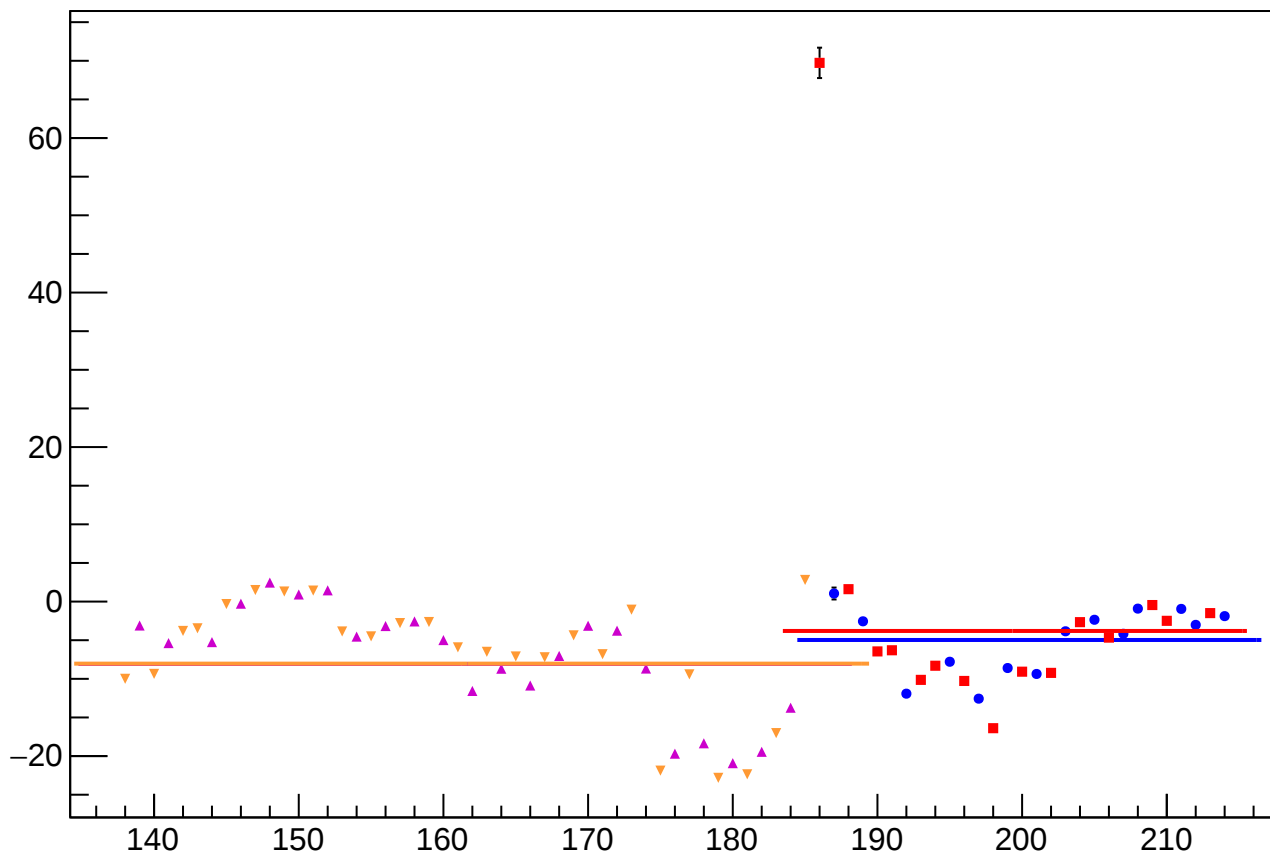
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204443.3/63$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68942.0/53$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282439.7/57$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351744.8/111$

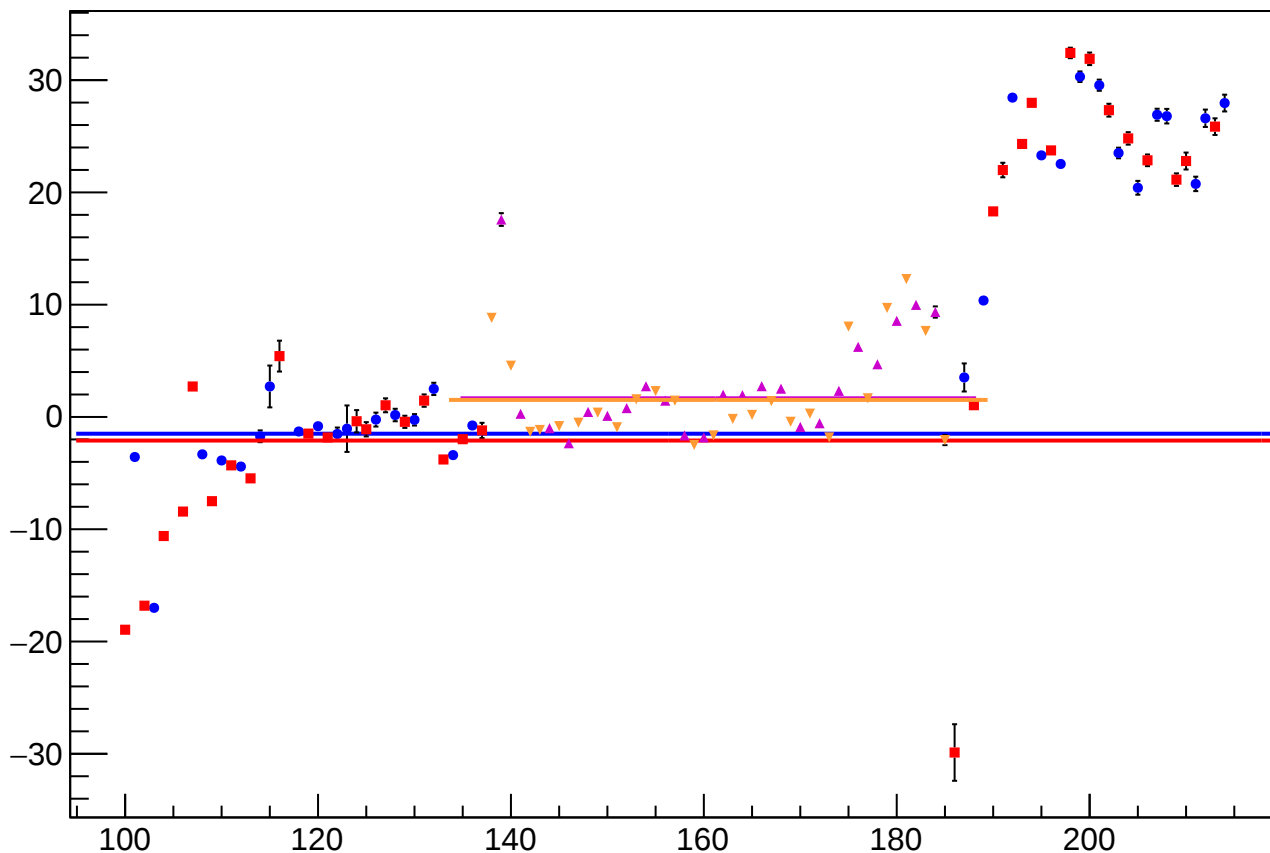
reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.971 ± 0.105 χ^2/NDF : 1483.6/13
 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: -4.331 ± 0.071 χ^2/NDF : 5691.8/28
 In: -7.088 ± 0.059 χ^2/NDF : 12619.8/36
 Out: -6.548 ± 0.057 χ^2/NDF : 17980.7/39
 All: -6.805 ± 0.041 χ^2/NDF : 30643.8/76

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.492 ± 0.051 χ^2/NDF : 49295.8/30

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

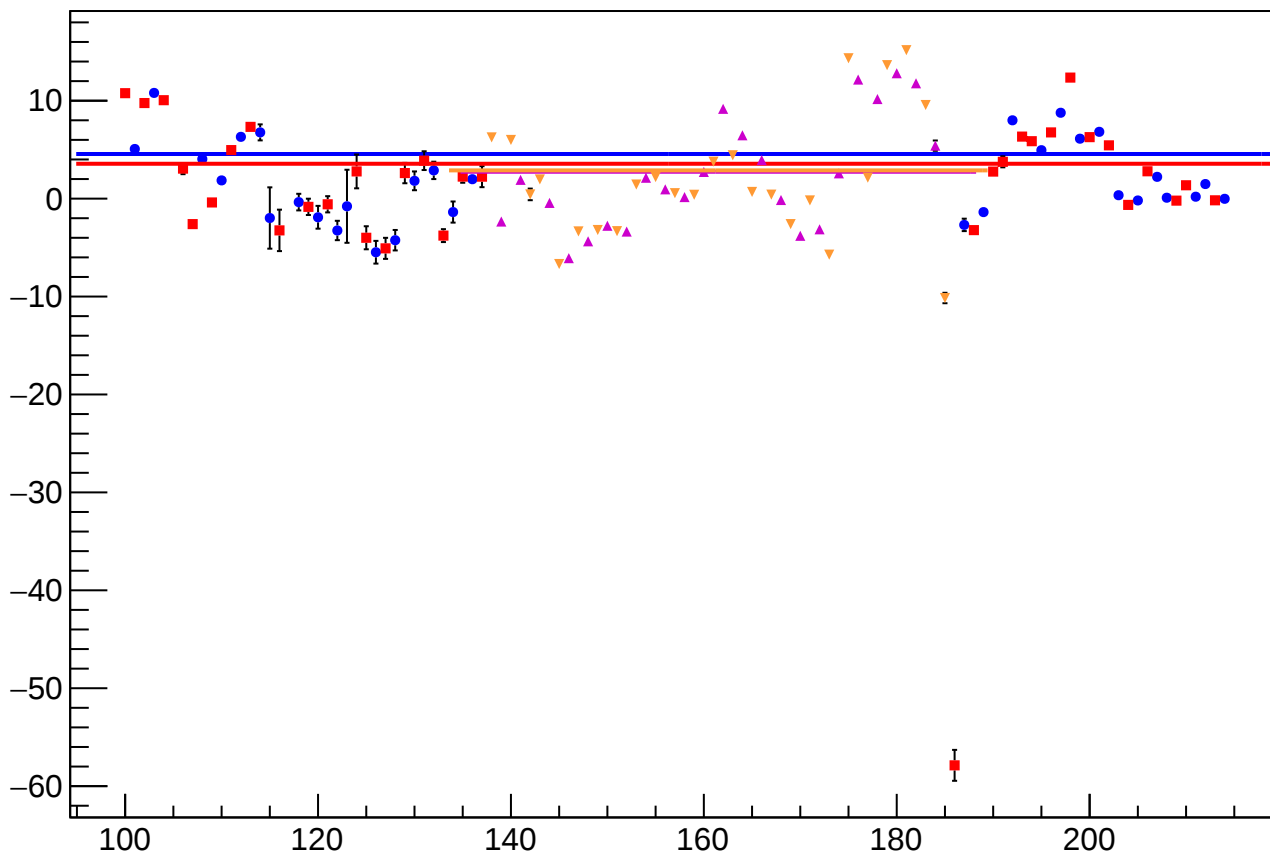
Right: -1.783 ± 0.037 χ^2/NDF : 107342.9/64

In: -0.076 ± 0.038 χ^2/NDF : 55043.7/53

Out: -0.325 ± 0.038 χ^2/NDF : 65083.9/58

All: -0.200 ± 0.027 χ^2/NDF : 120148.9/112

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.558 ± 0.067 $\chi^2/\text{NDF}: 3209.2/30$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 3.561 ± 0.063 $\chi^2/\text{NDF}: 8073.3/33$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

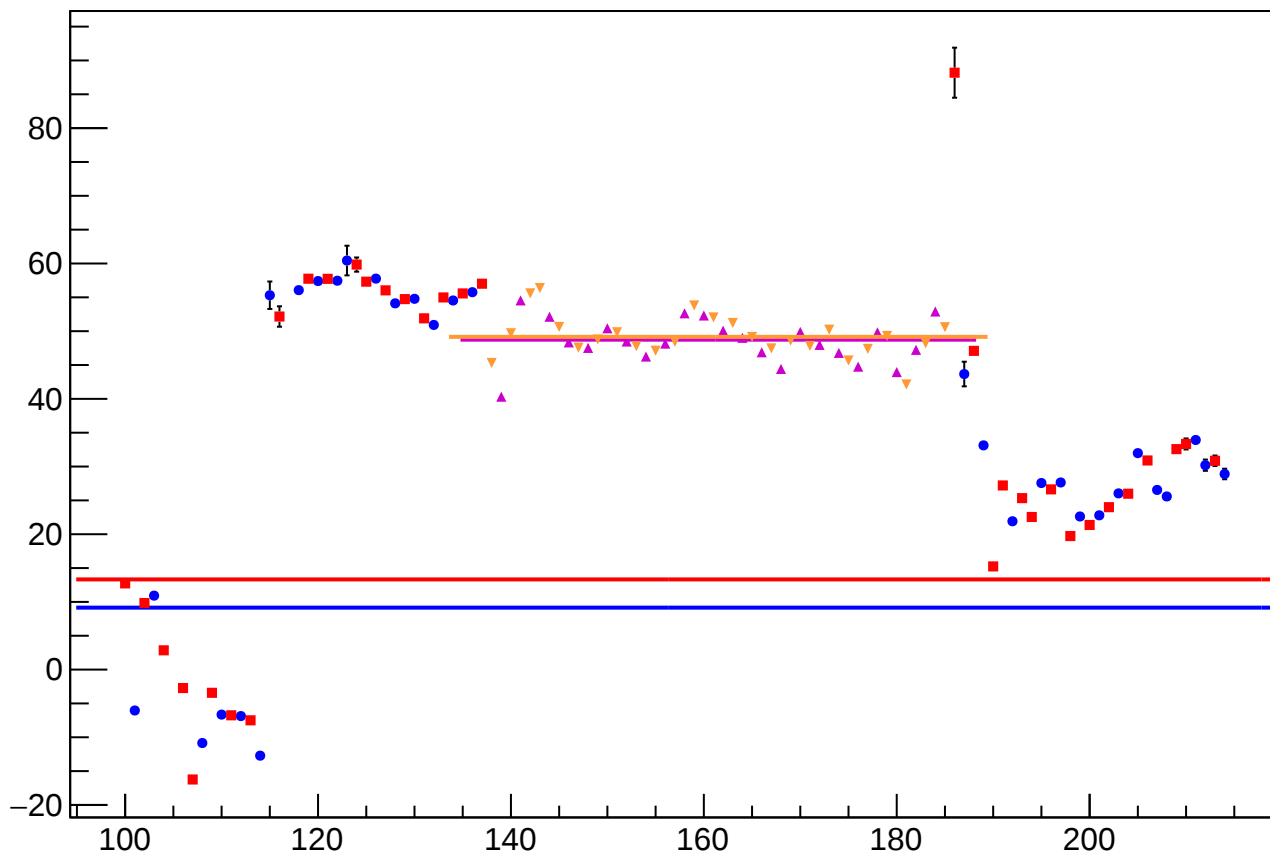
Right: 4.035 ± 0.046 $\chi^2/\text{NDF}: 11399.8/64$

In: 3.714 ± 0.049 $\chi^2/\text{NDF}: 10736.2/53$

Out: 3.257 ± 0.047 $\chi^2/\text{NDF}: 17017.7/58$

All: 3.478 ± 0.034 $\chi^2/\text{NDF}: 27799.4/112$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.153+/-0.060 χ^2/NDF : 135677.1/30

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

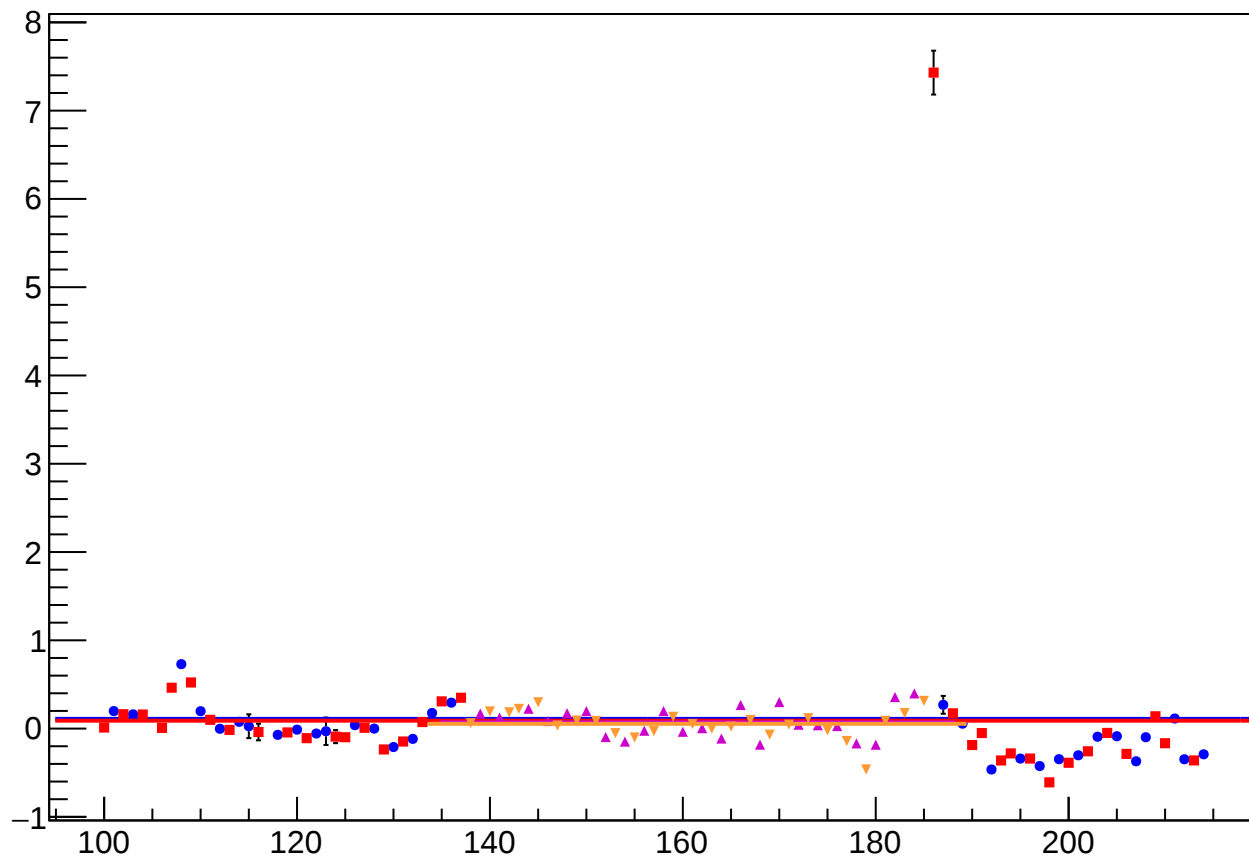
Right: 11.130+/-0.044 χ^2/NDF : 275724.1/64

In: 27.775+/-0.044 χ^2/NDF : 341945.3/53

Out: 31.688+/-0.044 χ^2/NDF : 304324.8/58

All: 29.711+/-0.031 χ^2/NDF : 650232.2/112

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.110 $\pm$ 0.002 χ^2 /NDF: 11802.1/30

Left Out: 0.054 $\pm$ 0.003 χ^2 /NDF:2379.8/24

Right Out: 0.090 $\pm$ 0.002 χ^2 /NDF: 11110.8/33

Left In: 0.070 $\pm$ 0.003 χ^2 /NDF:3233.8/22

Left: 0.062 $\pm$ 0.002 χ^2 /NDF: 5630.0/47

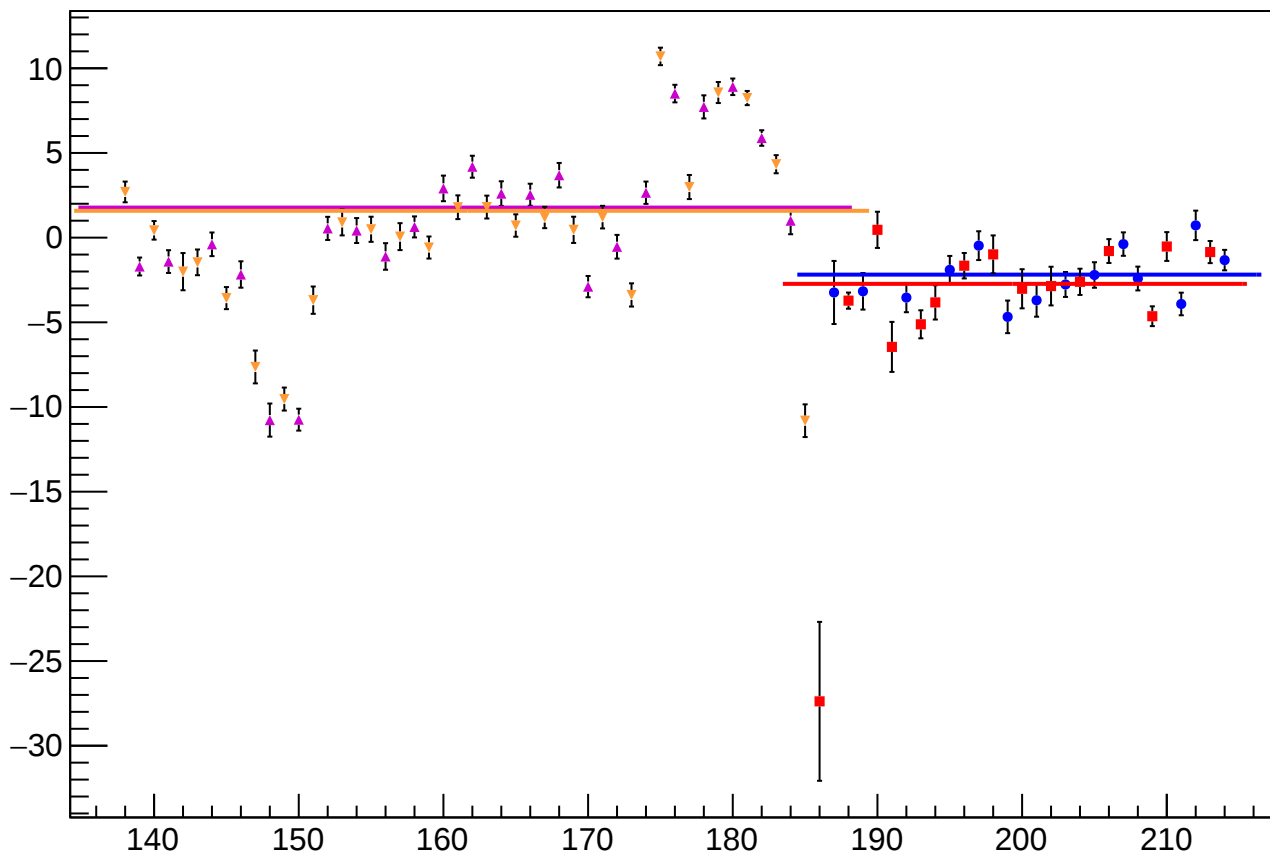
Right: 0.099 $\pm$ 0.002 χ^2 /NDF: 22947.3/64

In: 0.093 $\pm$ 0.002 χ^2 /NDF:15145.2/53

Out: 0.075 $\pm$ 0.002 χ^2 /NDF:13584.5/58

All: 0.084 $\pm$ 0.001 χ^2 /NDF: 28777.7/112

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.184 ± 0.216 χ^2/NDF : 44.4/13

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

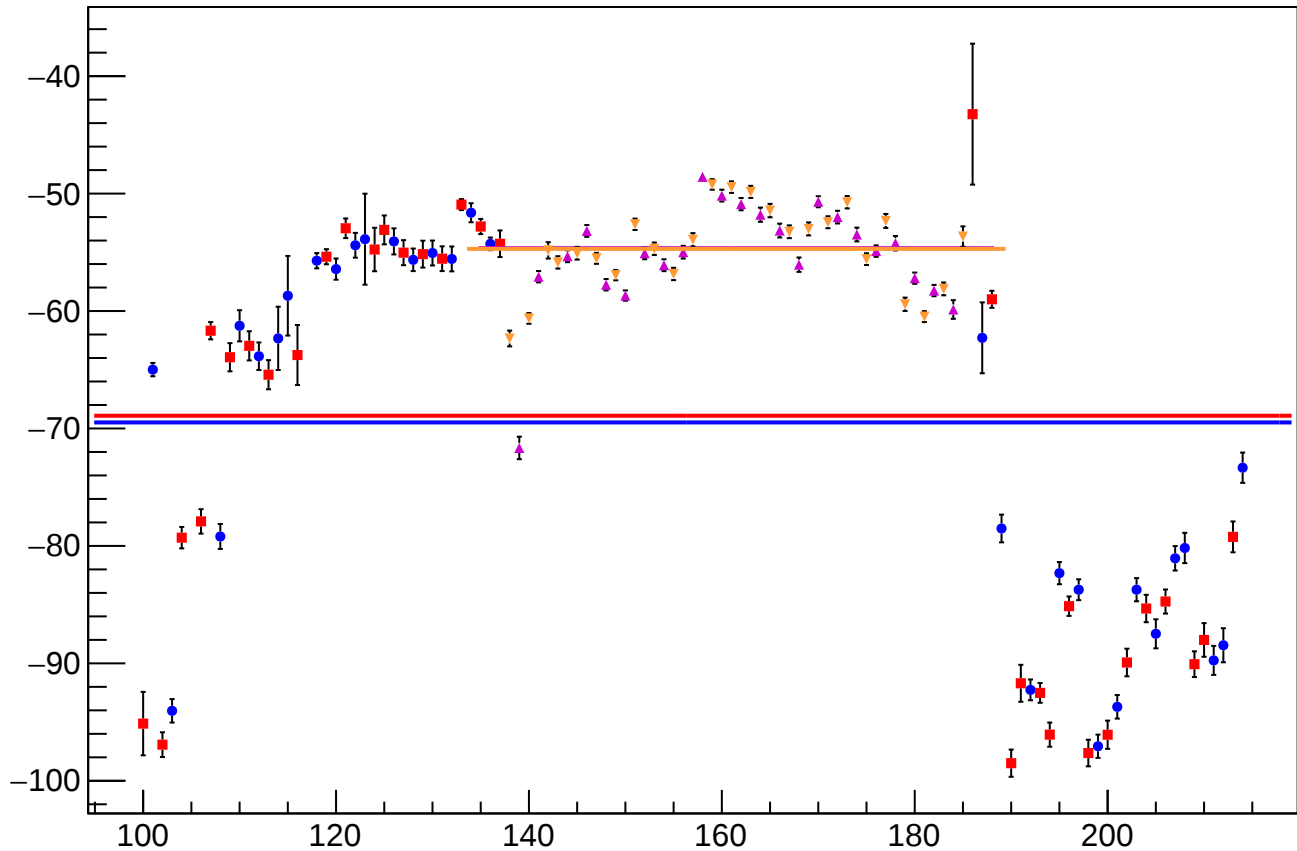
Right: -2.464 ± 0.151 χ^2/NDF : 142.1/28

In: 0.657 ± 0.115 χ^2/NDF : 1583.5/36

Out: 0.355 ± 0.112 χ^2/NDF : 1854.5/39

All: 0.503 ± 0.080 χ^2/NDF : 3441.6/76

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.487 ± 0.179 $\chi^2/\text{NDF}: 7331.7/30$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -68.916 ± 0.169 $\chi^2/\text{NDF}: 10374.7/33$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

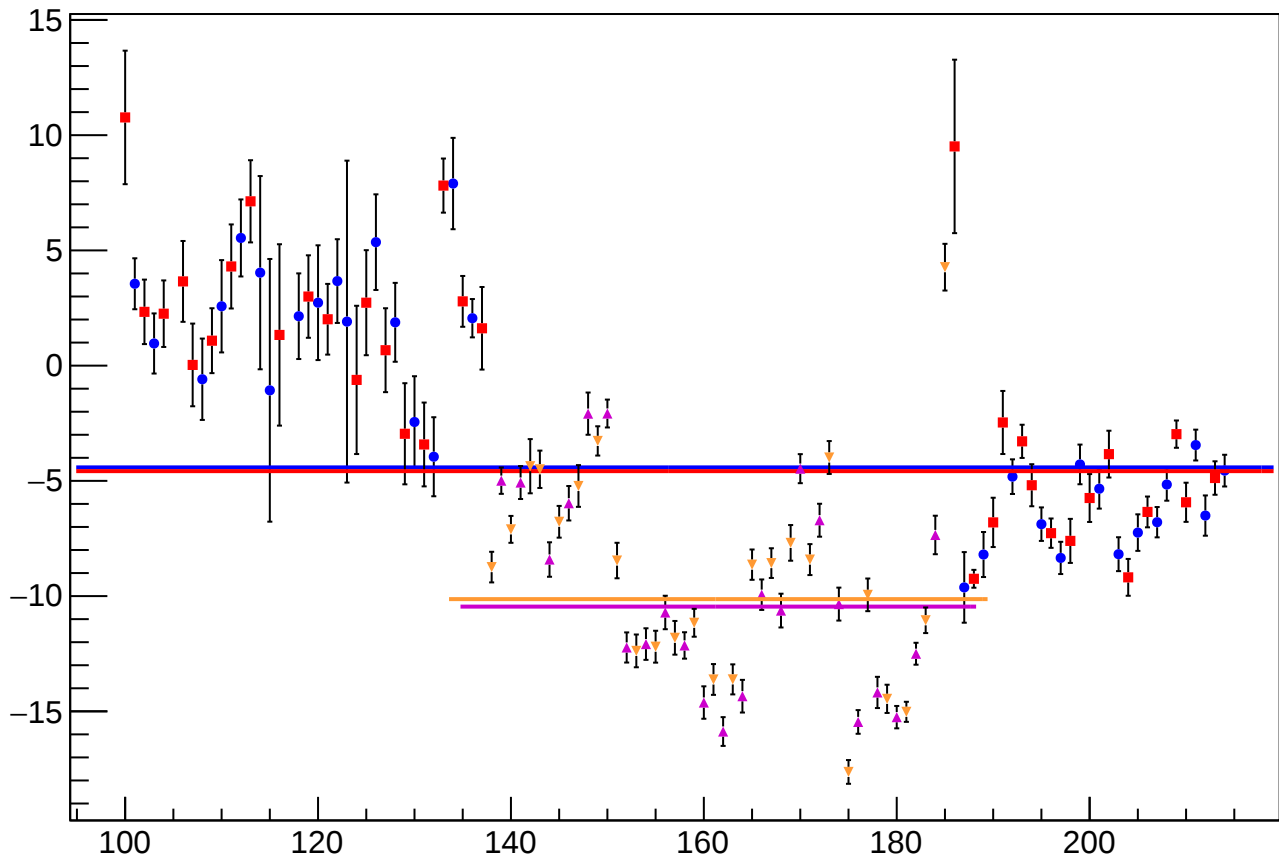
Right: -69.185 ± 0.123 $\chi^2/\text{NDF}: 17711.7/64$

In: -58.700 ± 0.094 $\chi^2/\text{NDF}: 13394.5/53$

Out: -58.693 ± 0.090 $\chi^2/\text{NDF}: 16570.8/58$

All: -58.697 ± 0.065 $\chi^2/\text{NDF}: 29965.3/112$

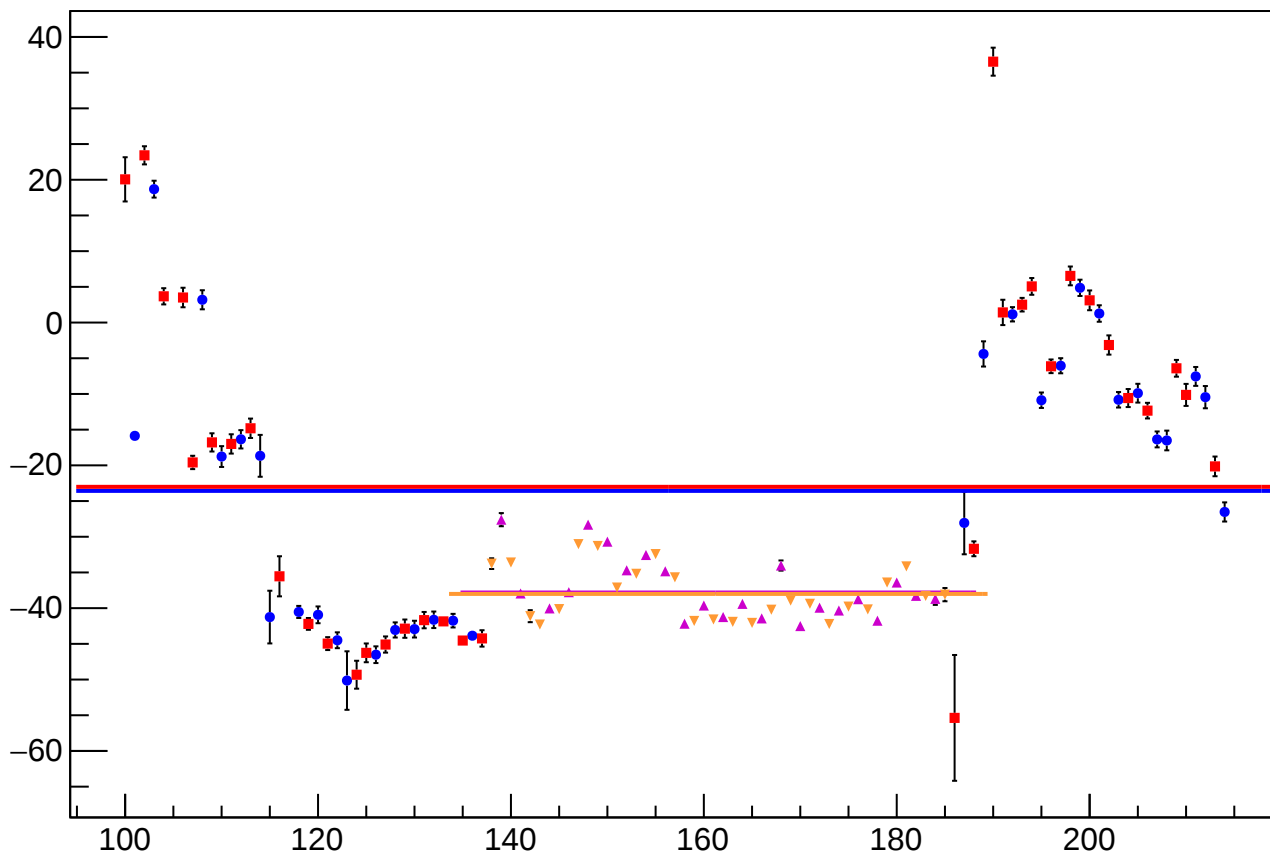
reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.415 ± 0.184 χ^2/NDF : 435.1/30
 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: -4.502 ± 0.126 χ^2/NDF : 1099.3/64
 In: -8.356 ± 0.109 χ^2/NDF : 2137.4/53
 Out: -8.077 ± 0.105 χ^2/NDF : 2366.1/58
 All: -8.212 ± 0.076 χ^2/NDF : 4506.9/112

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.575 ± 0.203 $\chi^2/\text{NDF}: 8666.3/30$

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 $\chi^2/\text{NDF}: 1987.2/47$

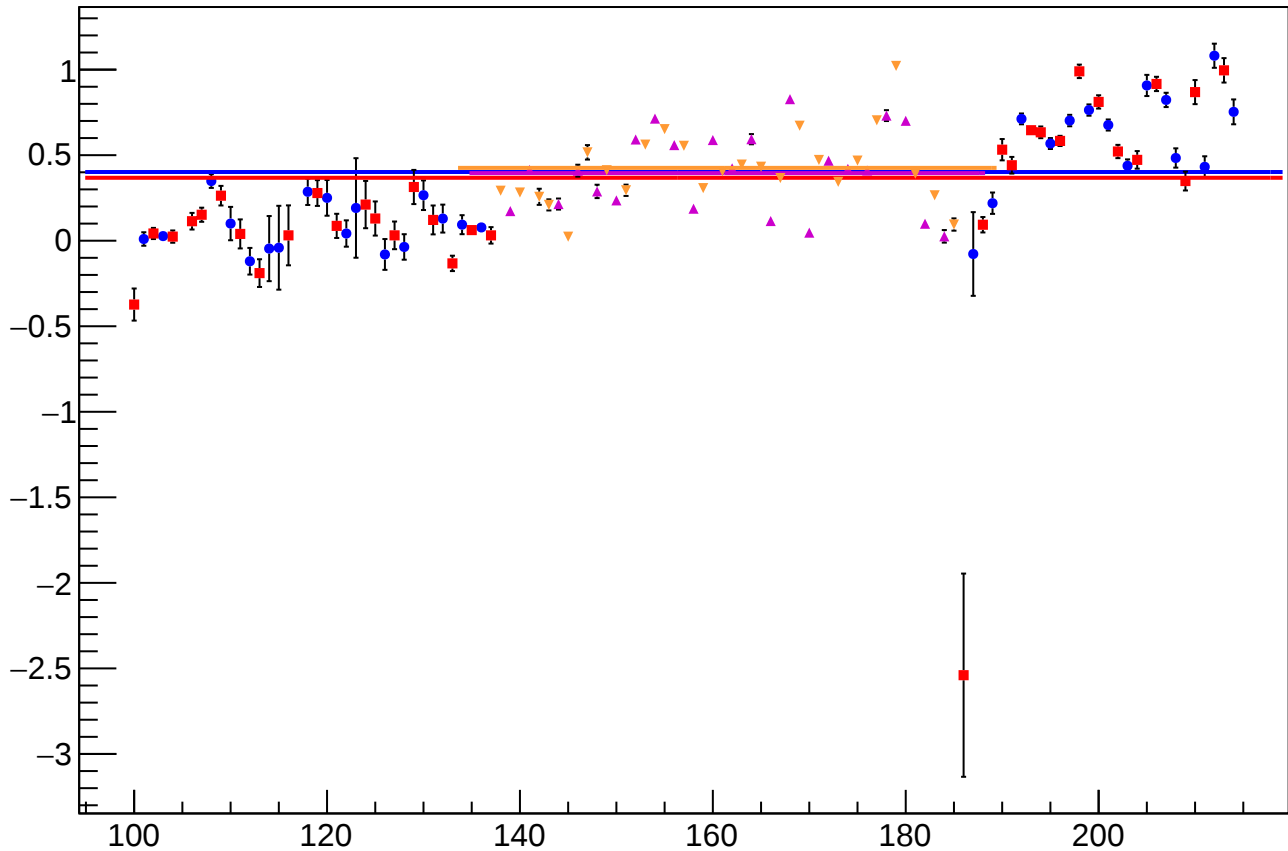
Right: -23.281 ± 0.141 $\chi^2/\text{NDF}: 20560.7/64$

In: -34.028 ± 0.105 $\chi^2/\text{NDF}: 13304.2/53$

Out: -33.986 ± 0.102 $\chi^2/\text{NDF}: 17112.7/58$

All: -34.007 ± 0.073 $\chi^2/\text{NDF}: 30417.0/112$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.402 $\pm$ 0.009 χ^2 /NDF: 1373.7/30

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

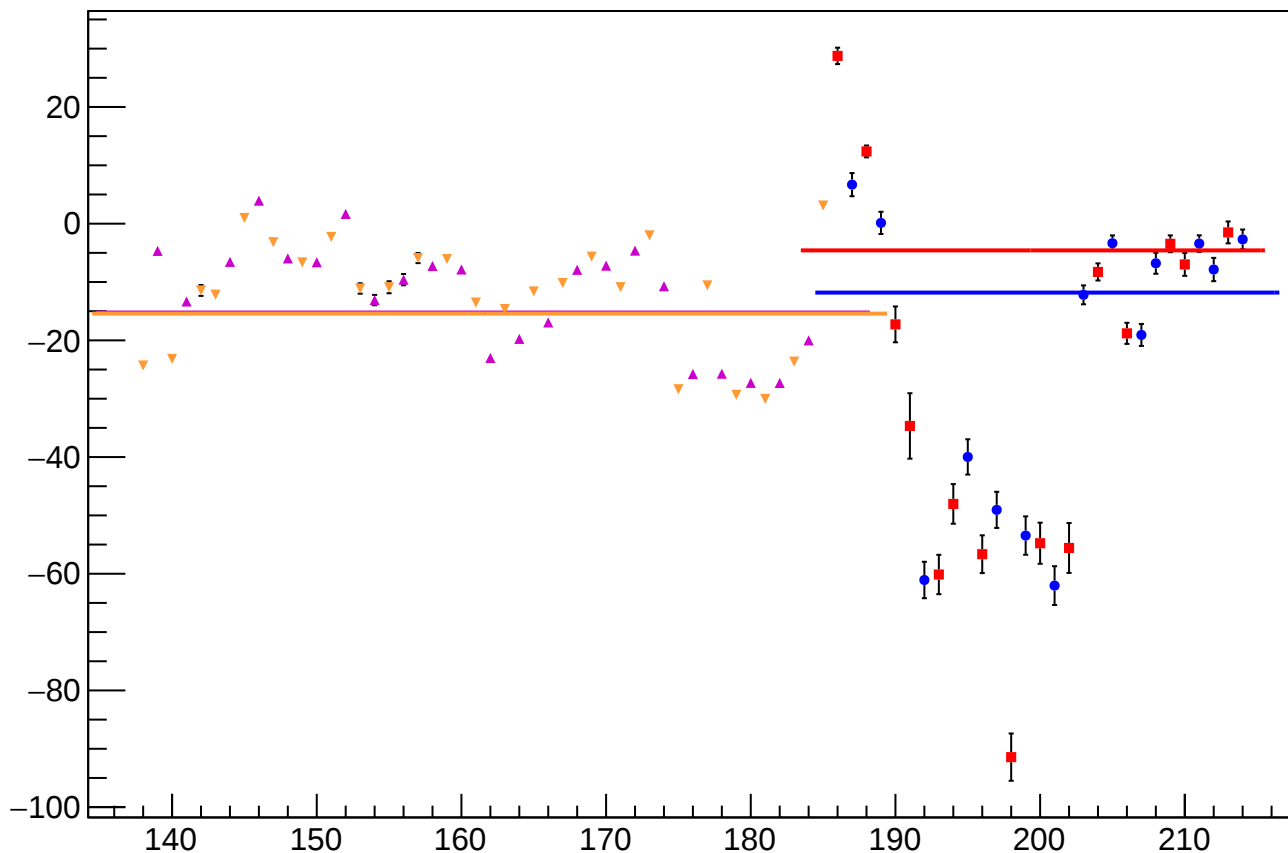
Right: 0.384 $\pm$ 0.006 χ^2 /NDF: 3087.9/64

In: 0.397 $\pm$ 0.005 χ^2 /NDF:3172.2/53

Out: 0.409 $\pm$ 0.005 χ^2 /NDF:3044.5/58

All: 0.403 $\pm$ 0.003 χ^2 /NDF: 6220.0/112

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.813 ± 0.523 $\chi^2/\text{NDF}: 1125.5/13$

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 $\chi^2/\text{NDF}: 19167.9/47$

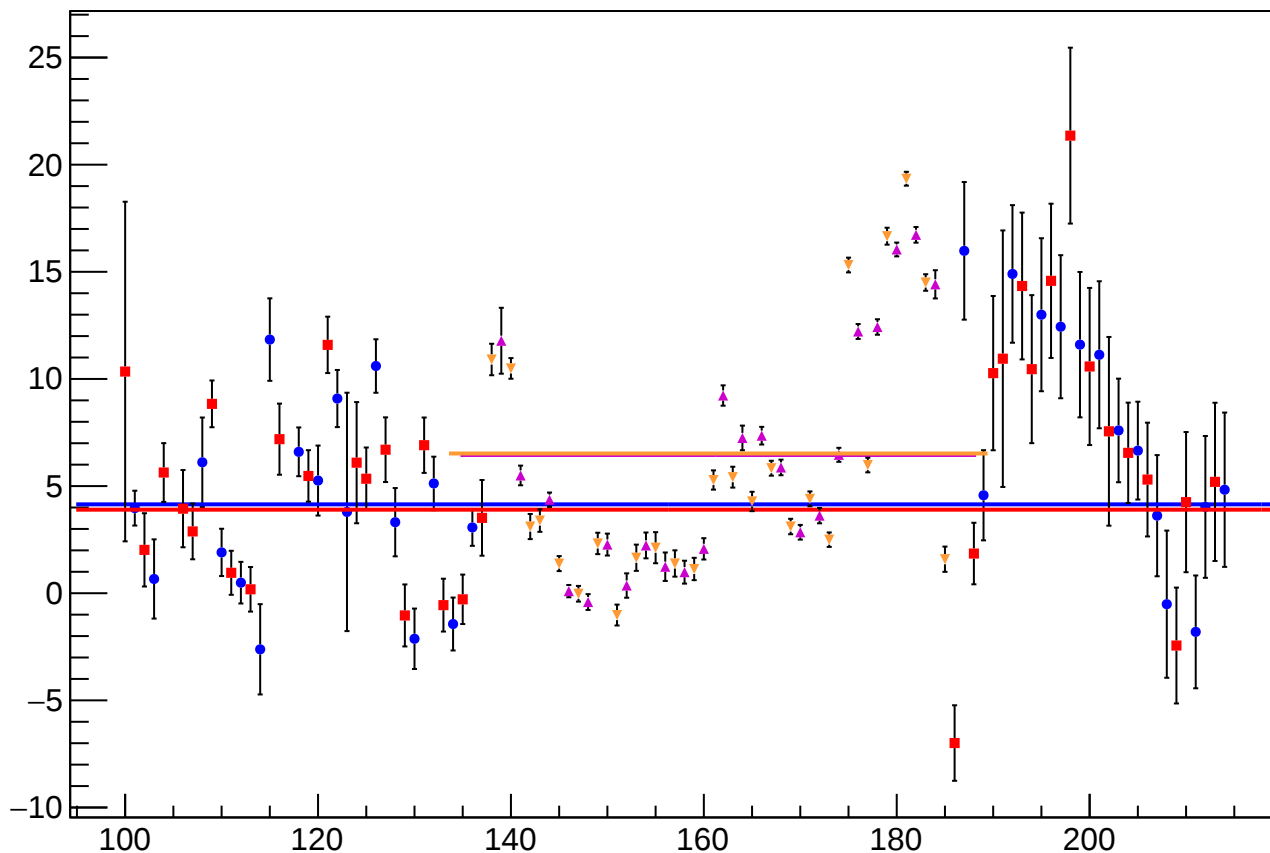
Right: -8.089 ± 0.364 $\chi^2/\text{NDF}: 3680.7/28$

In: -15.093 ± 0.105 $\chi^2/\text{NDF}: 9823.8/36$

Out: -14.967 ± 0.103 $\chi^2/\text{NDF}: 13402.1/39$

All: -15.029 ± 0.073 $\chi^2/\text{NDF}: 23226.7/76$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.147 $\pm$ 0.289 χ^2 /NDF: 193.7/30

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

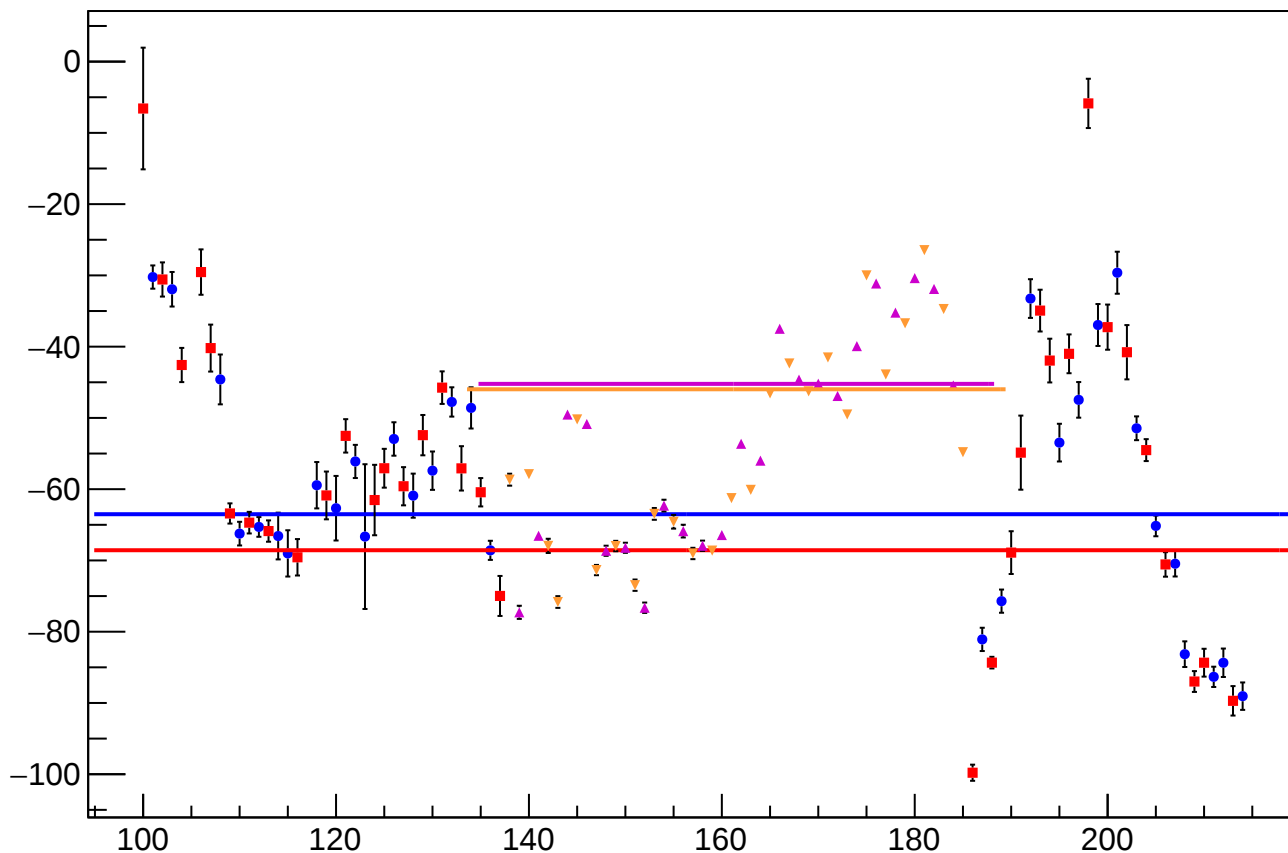
Right: 4.023 $\pm$ 0.204 χ^2 /NDF: 423.5/64

In: 6.264 $\pm$ 0.083 χ^2 /NDF:4200.2/53

Out: 6.311 $\pm$ 0.082 χ^2 /NDF:5290.1/58

All: 6.288 $\pm$ 0.058 χ^2 /NDF: 9490.5/112

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.513 ± 0.371 χ^2/NDF : 2055.6/30

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -68.567 ± 0.349 χ^2/NDF : 3262.1/33

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

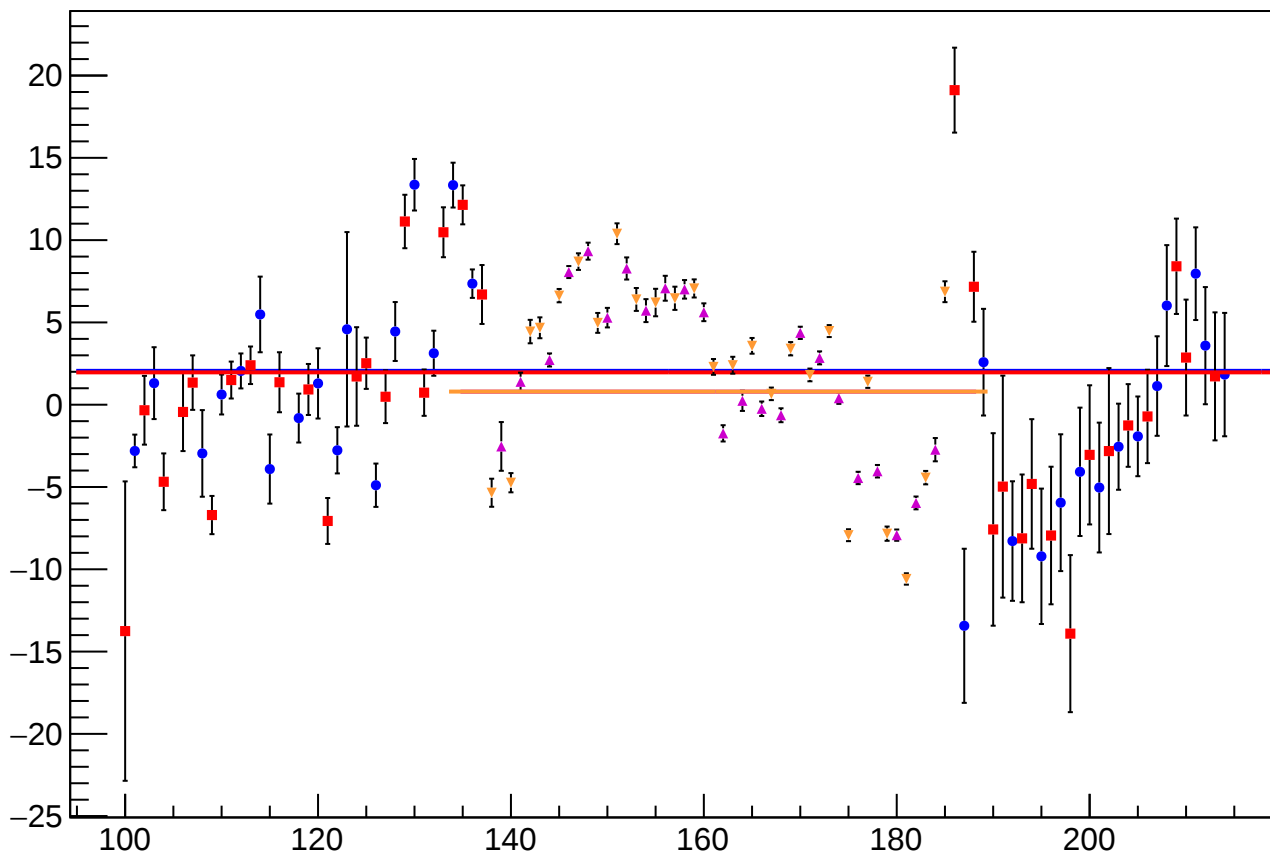
Right: -66.198 ± 0.254 χ^2/NDF : 5416.2/64

In: -46.631 ± 0.103 χ^2/NDF : 19899.1/53

Out: -47.902 ± 0.102 χ^2/NDF : 24464.0/58

All: -47.275 ± 0.072 χ^2/NDF : 44440.2/112

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.057 $\pm$ 0.324 χ^2 /NDF: 291.6/30

Left Out: 0.797 $\pm$ 0.096 χ^2 /NDF: 3760.0/24

Right Out: 1.966 $\pm$ 0.330 χ^2 /NDF: 354.8/33

Left In: 0.792 $\pm$ 0.097 χ^2 /NDF: 2692.5/22

Left: 0.795 $\pm$ 0.068 χ^2 /NDF: 6452.5/47

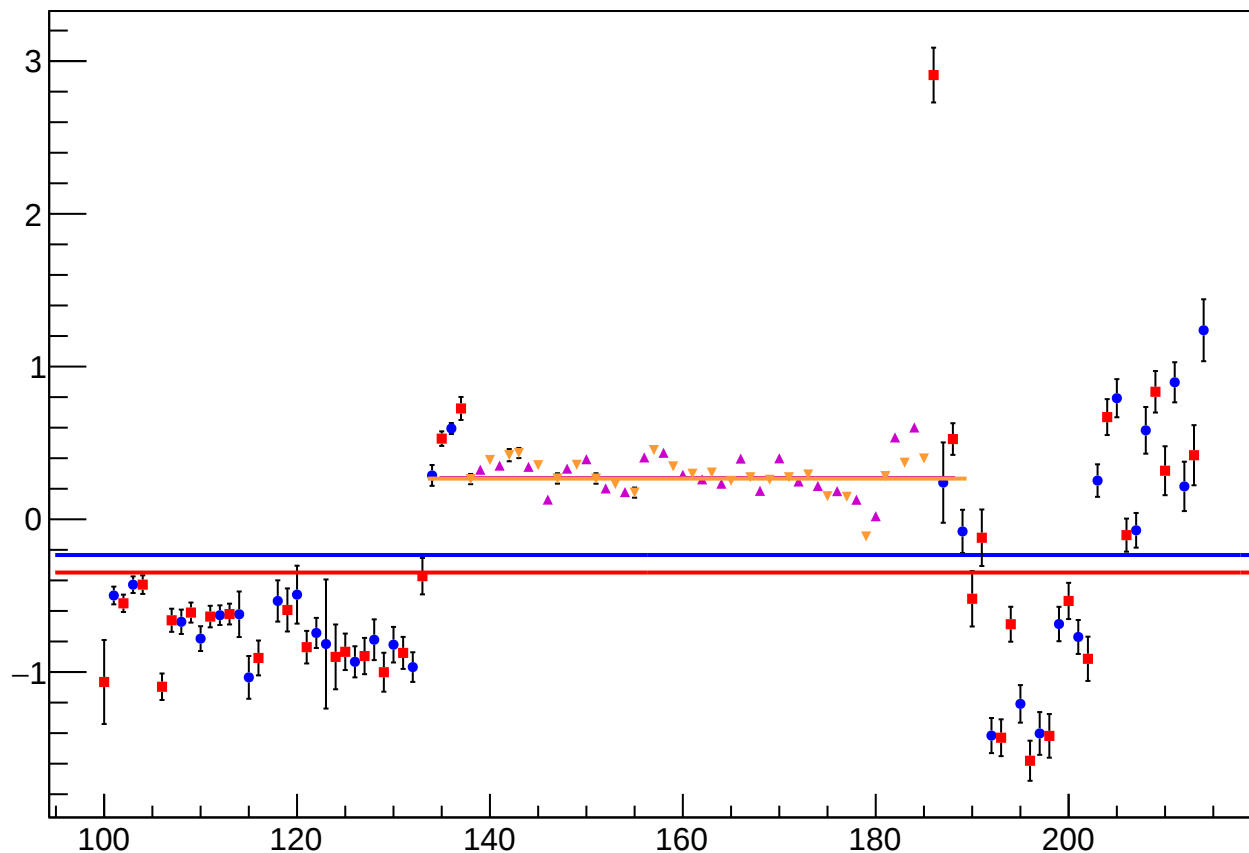
Right: 2.012 $\pm$ 0.231 χ^2 /NDF: 646.4/64

In: 0.895 $\pm$ 0.093 χ^2 /NDF: 2998.0/53

Out: 0.888 $\pm$ 0.092 χ^2 /NDF: 4126.3/58

All: 0.892 $\pm$ 0.065 χ^2 /NDF: 7124.4/112

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.234 ± 0.017 χ^2/NDF : 1492.9/30

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

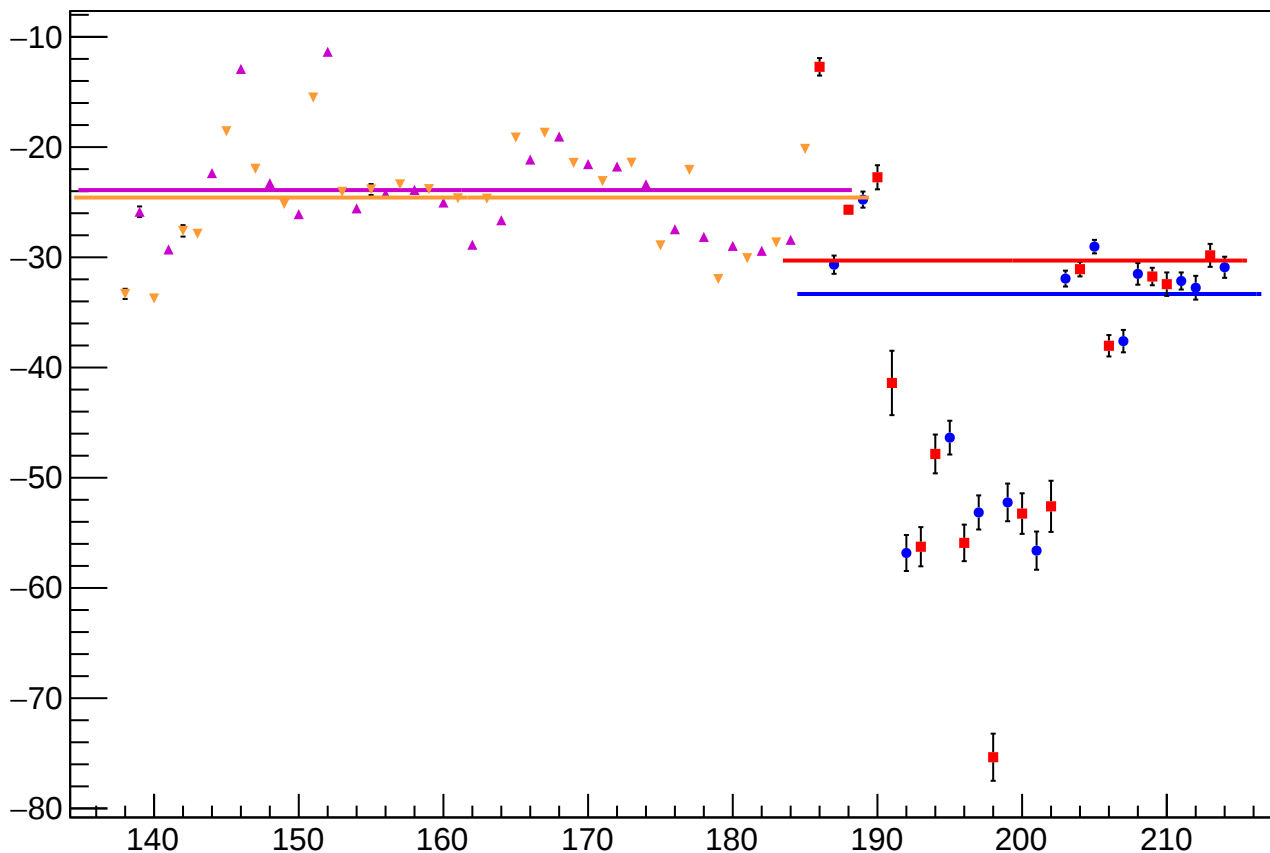
Right: -0.291 ± 0.012 χ^2/NDF : 3209.5/64

In: 0.237 ± 0.004 χ^2/NDF : 3318.0/53

Out: 0.227 ± 0.004 χ^2/NDF : 3667.3/58

All: 0.232 ± 0.003 χ^2/NDF : 6988.0/112

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.329 ± 0.255 χ^2/NDF : 977.3/13
 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

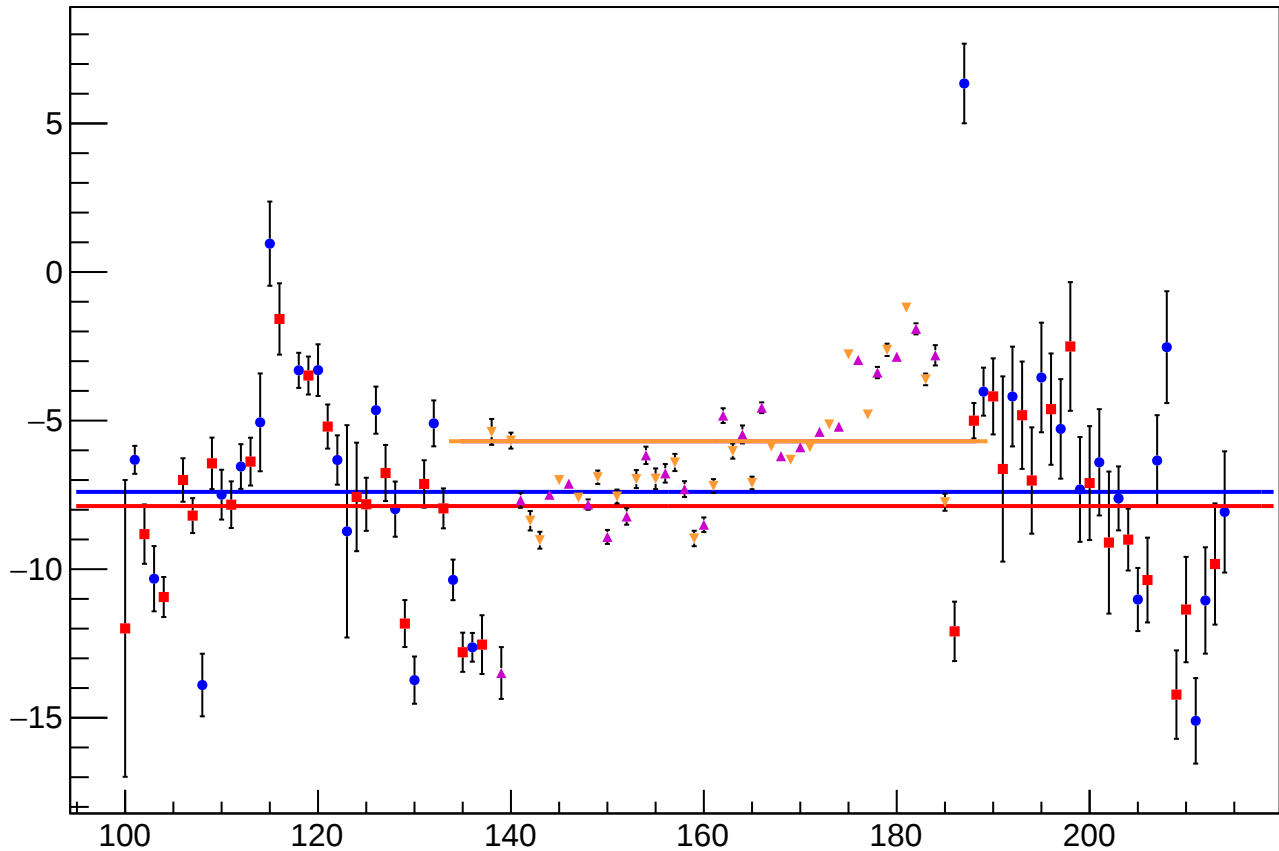
Right: -31.764 ± 0.177 χ^2/NDF : 3033.7/28

In: -24.266 ± 0.050 χ^2/NDF : 11448.9/36

Out: -24.811 ± 0.050 χ^2/NDF : 11088.3/39

All: -24.539 ± 0.035 χ^2/NDF : 22596.7/76

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.399 ± 0.167 χ^2/NDF : 565.7/30

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

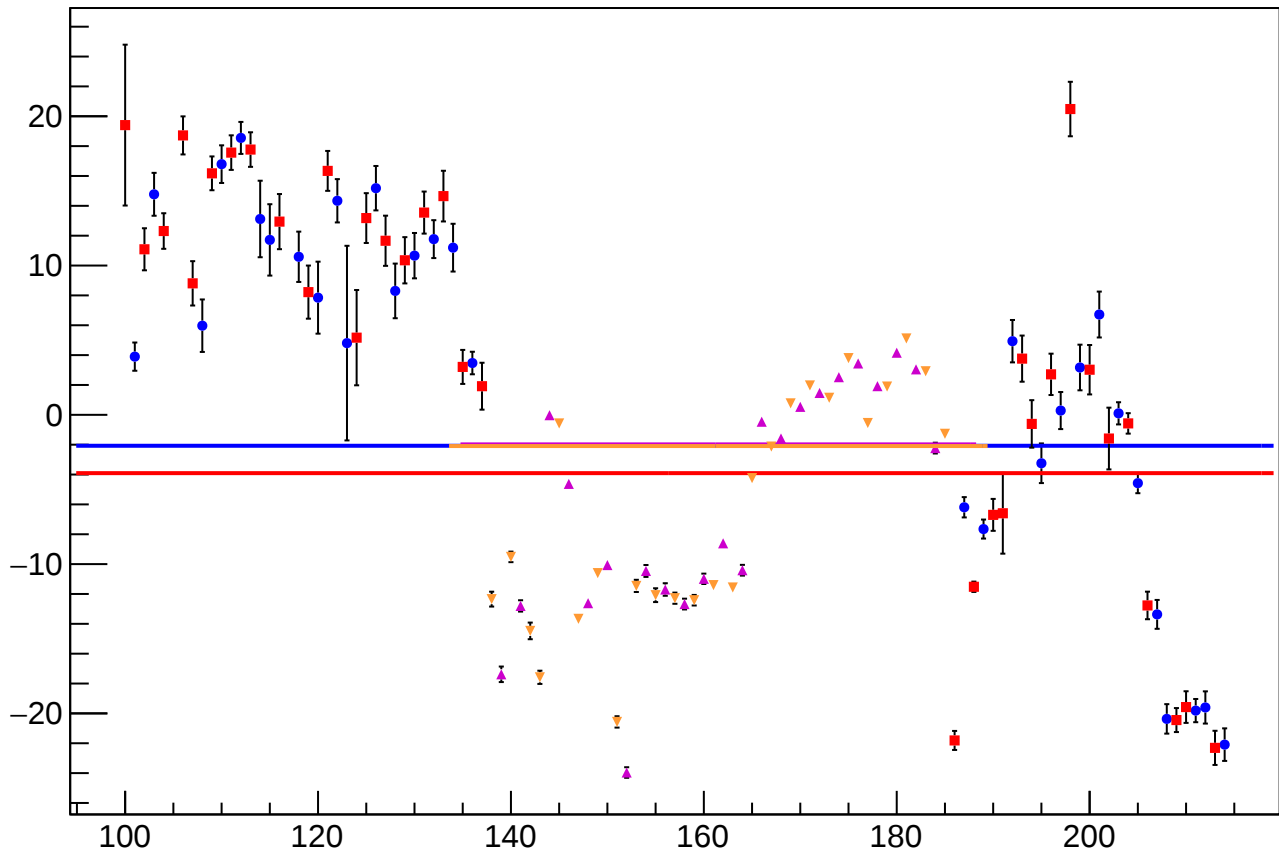
Right: -7.643 ± 0.117 χ^2/NDF : 882.8/64

In: -5.792 ± 0.040 χ^2/NDF : 2973.2/53

Out: -5.824 ± 0.040 χ^2/NDF : 2738.7/58

All: -5.808 ± 0.028 χ^2/NDF : 5712.3/112

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.072 ± 0.199 χ^2/NDF : 3352.2/30

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

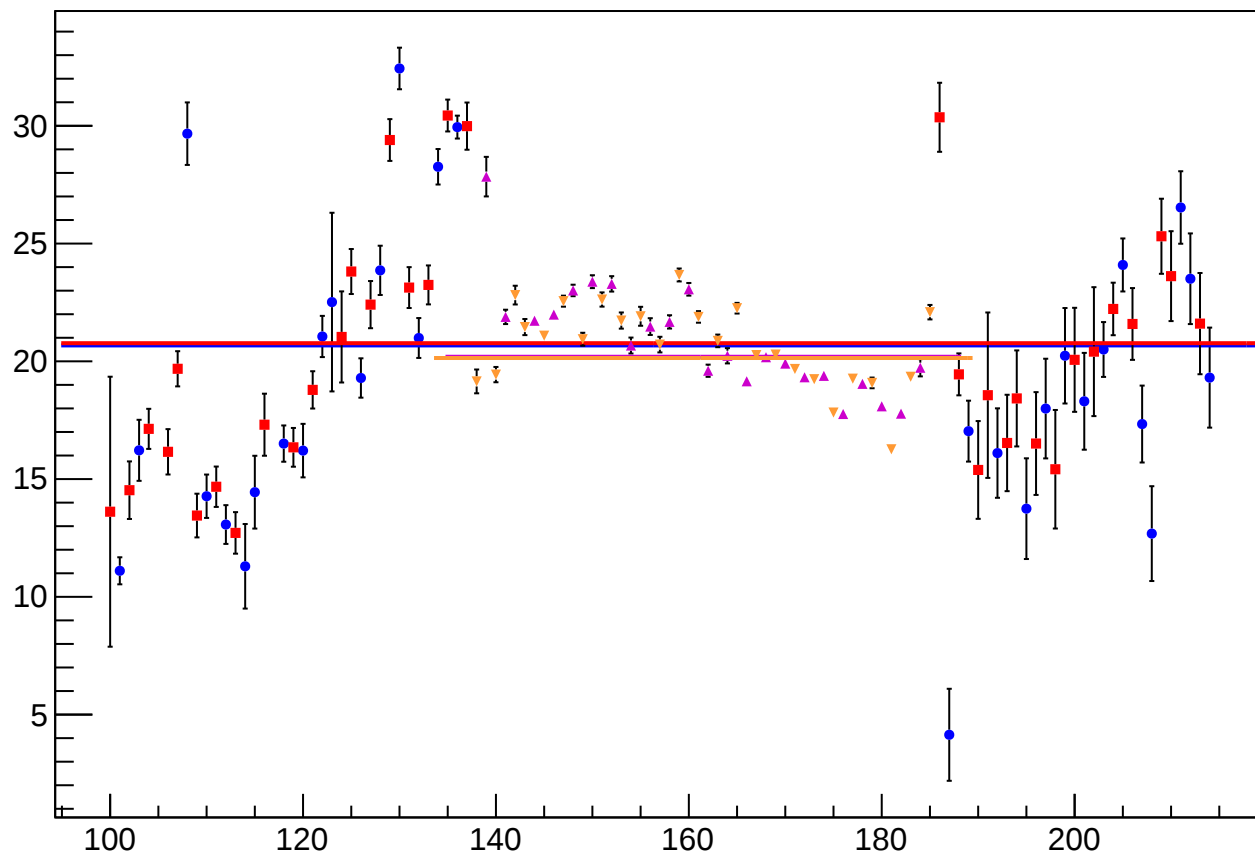
Right: -3.059 ± 0.135 χ^2/NDF : 8628.0/64

In: -1.986 ± 0.050 χ^2/NDF : 18734.7/53

Out: -2.223 ± 0.050 χ^2/NDF : 21625.4/58

All: -2.105 ± 0.035 χ^2/NDF : 40371.6/112

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.675 $\pm$ 0.190 χ^2 /NDF: 1357.5/30

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

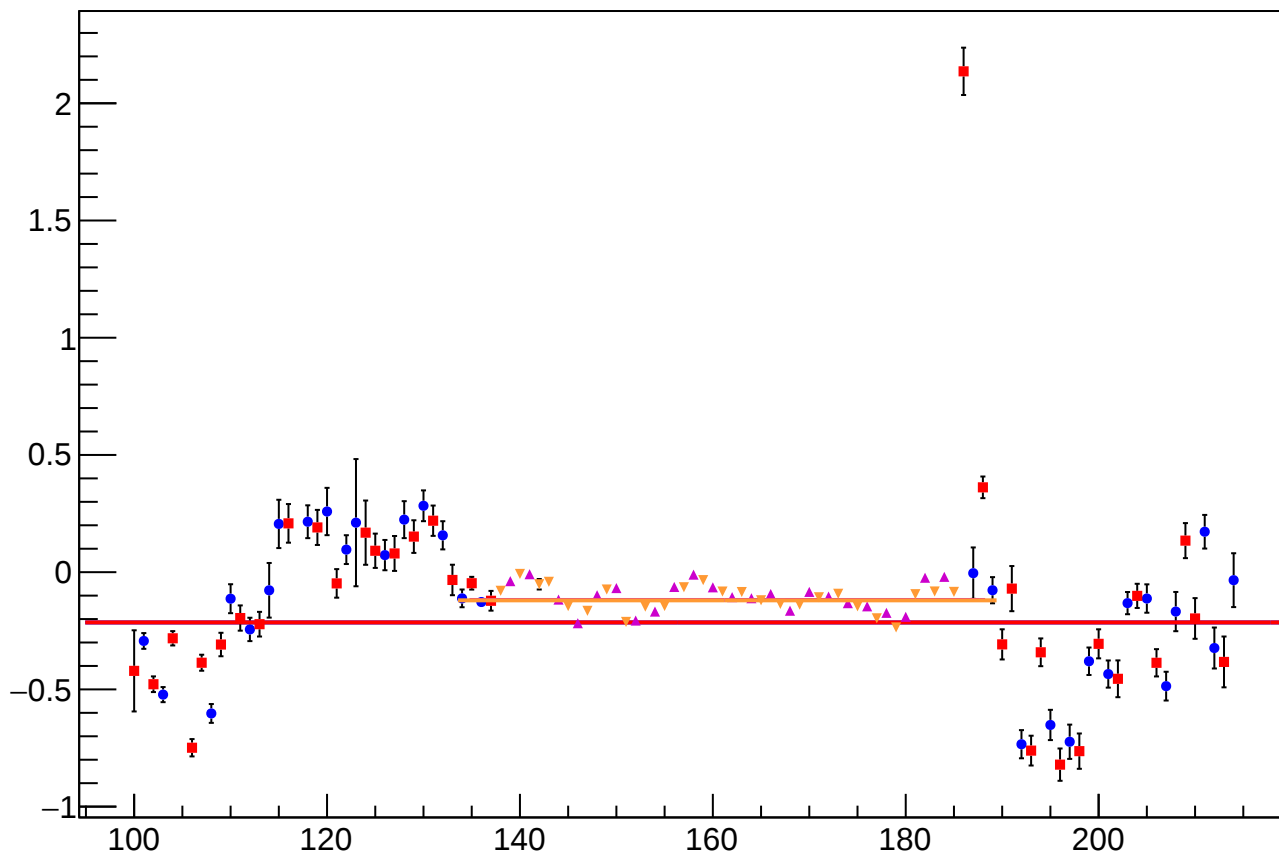
Right: 20.723 $\pm$ 0.135 χ^2 /NDF: 2158.2/64

In: 20.220 $\pm$ 0.045 χ^2 /NDF:2810.9/53

Out: 20.175 $\pm$ 0.045 χ^2 /NDF:2229.9/58

All: 20.198 $\pm$ 0.032 χ^2 /NDF: 5041.3/112

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.215 ± 0.009 χ^2/NDF : 731.5/30

Left Out: -0.120 ± 0.002 χ^2/NDF : 530.4/24

Right Out: -0.214 ± 0.009 χ^2/NDF : 1494.7/33

Left In: -0.119 ± 0.002 χ^2/NDF : 721.8/22

Left: -0.119 ± 0.001 χ^2/NDF : 1252.4/47

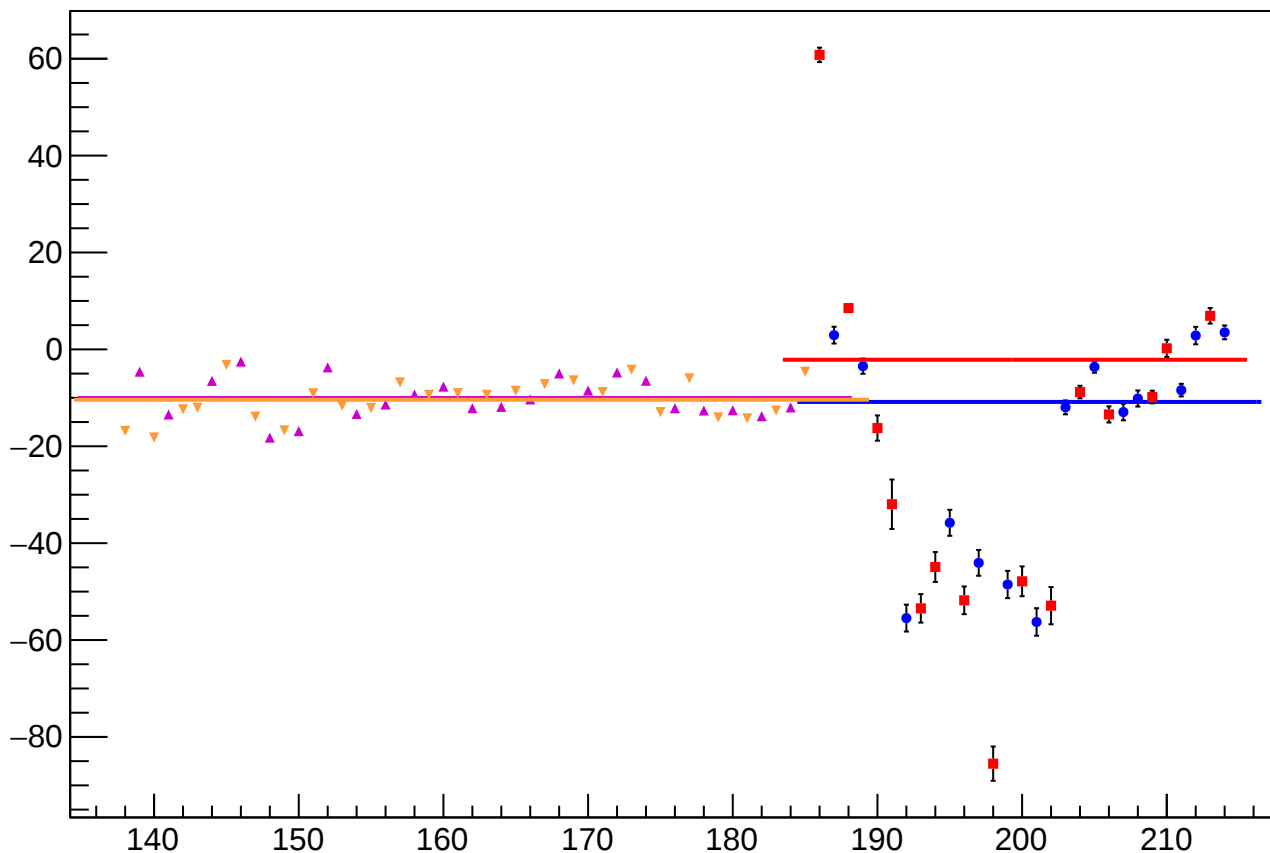
Right: -0.214 ± 0.007 χ^2/NDF : 2226.1/64

In: -0.123 ± 0.002 χ^2/NDF : 1551.0/53

Out: -0.125 ± 0.002 χ^2/NDF : 2123.3/58

All: -0.124 ± 0.001 χ^2/NDF : 3674.6/112

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.845 ± 0.462 $\chi^2/\text{NDF}: 1221.9/13$

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 $\chi^2/\text{NDF}: 3878.3/47$

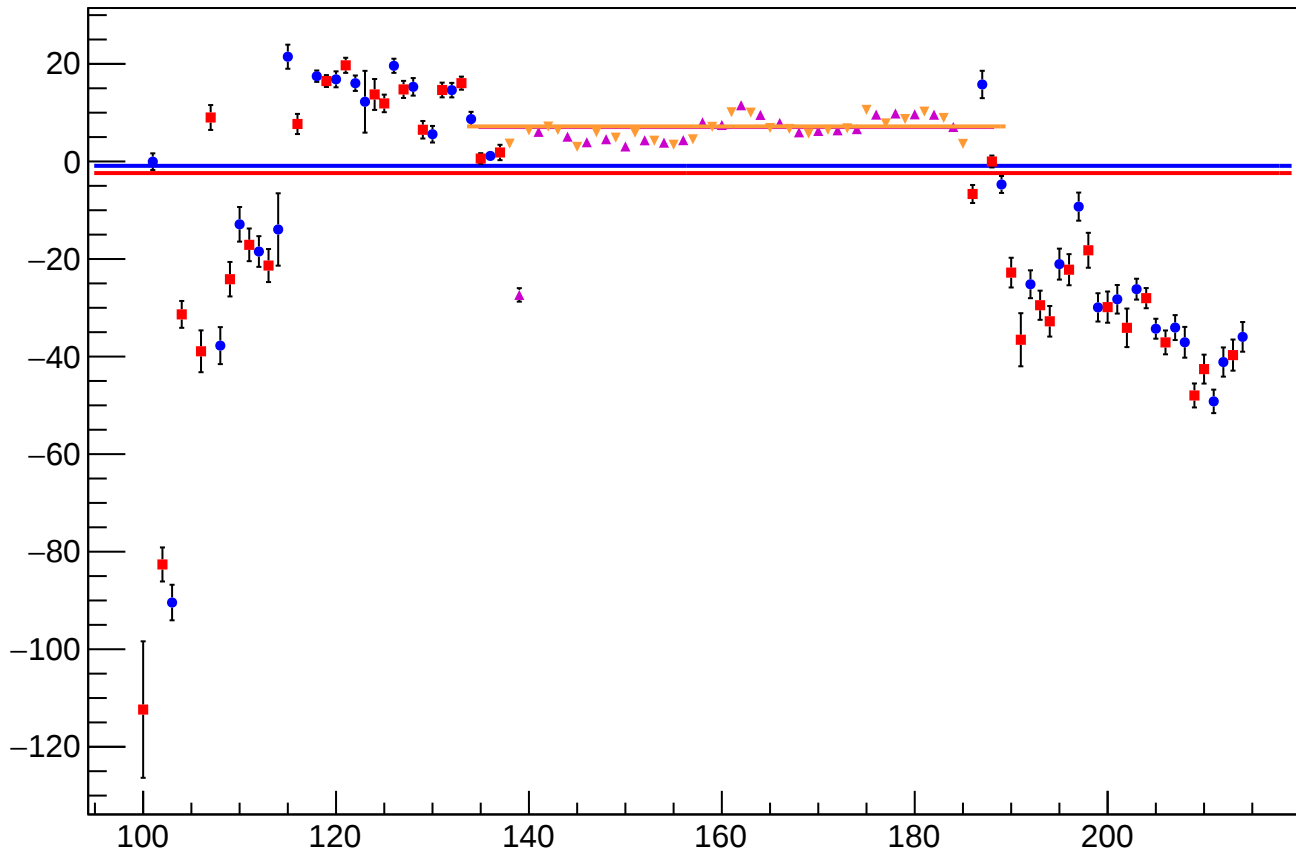
Right: -6.427 ± 0.324 $\chi^2/\text{NDF}: 5302.3/28$

In: -10.065 ± 0.088 $\chi^2/\text{NDF}: 2983.6/36$

Out: -10.094 ± 0.086 $\chi^2/\text{NDF}: 6328.6/39$

All: -10.080 ± 0.062 $\chi^2/\text{NDF}: 9312.3/76$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.898 ± 0.350 χ^2/NDF : 3535.4/30

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

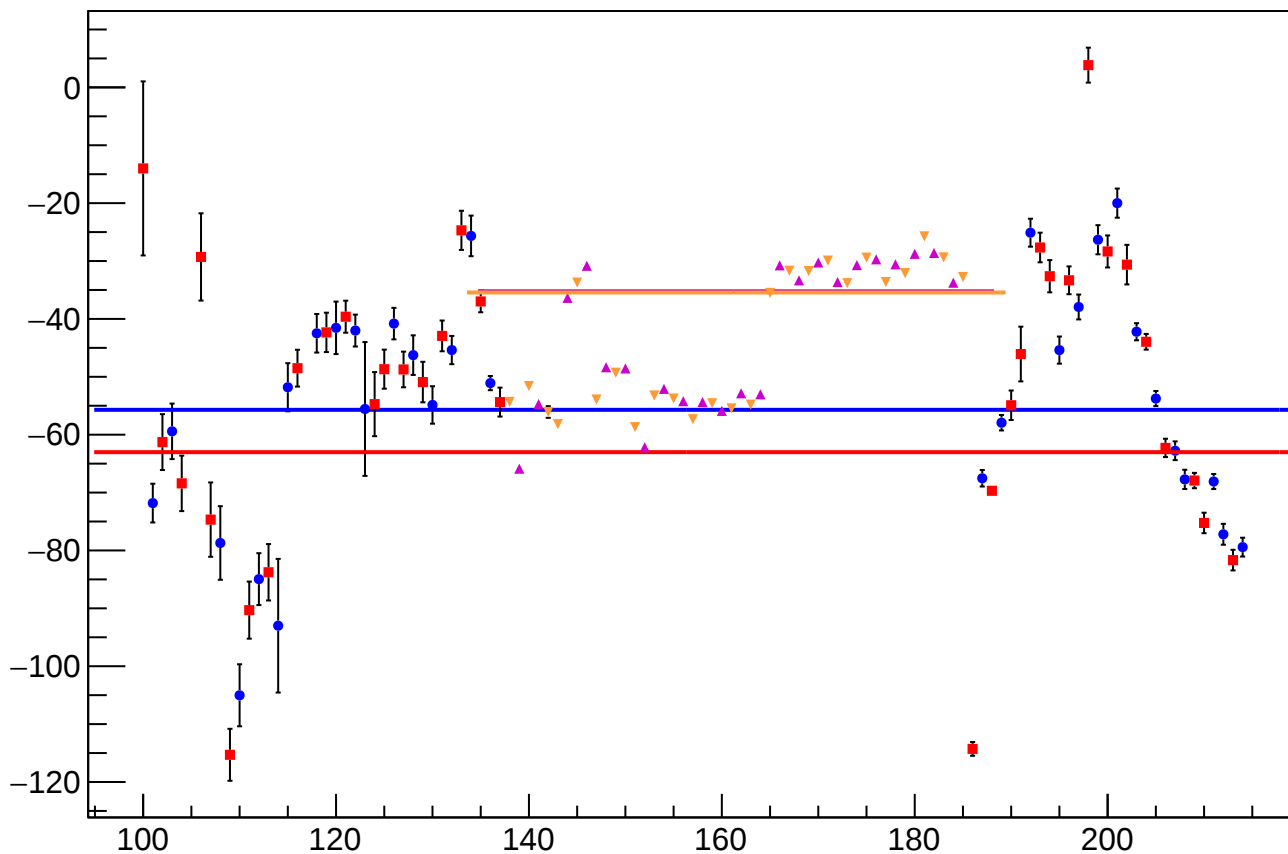
Right: -1.619 ± 0.251 χ^2/NDF : 6919.1/64

In: 6.710 ± 0.073 χ^2/NDF : 5565.7/53

Out: 6.801 ± 0.072 χ^2/NDF : 4971.0/58

All: 6.756 ± 0.051 χ^2/NDF : 10537.5/112

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -55.703 ± 0.383 χ^2/NDF : 1628.5/30

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

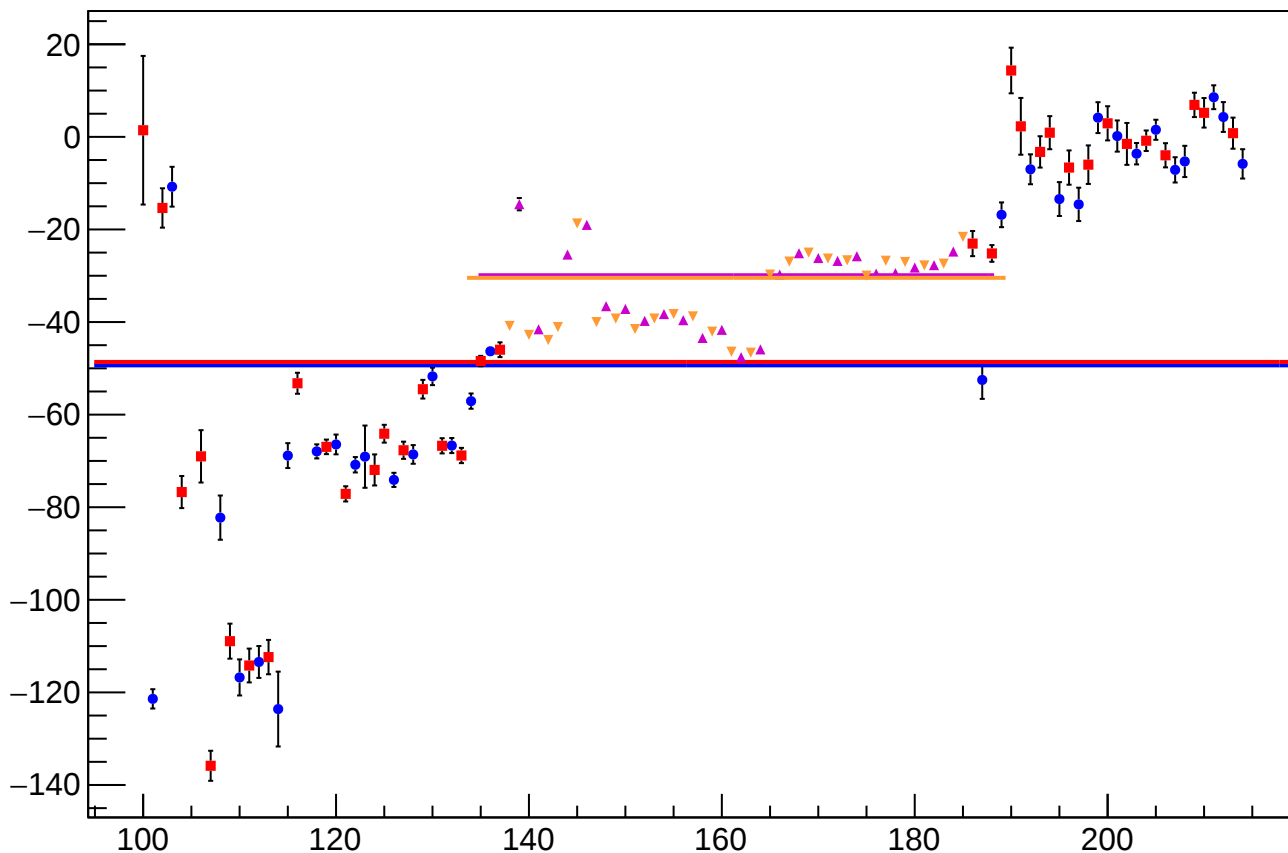
Right: -59.528 ± 0.264 χ^2/NDF : 6159.4/64

In: -36.304 ± 0.088 χ^2/NDF : 15941.8/53

Out: -36.977 ± 0.086 χ^2/NDF : 22494.7/58

All: -36.645 ± 0.062 χ^2/NDF : 38466.3/112

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -49.357 ± 0.391 $\chi^2/\text{NDF}: 6304.1/30$

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 $\chi^2/\text{NDF}: 15305.7/47$

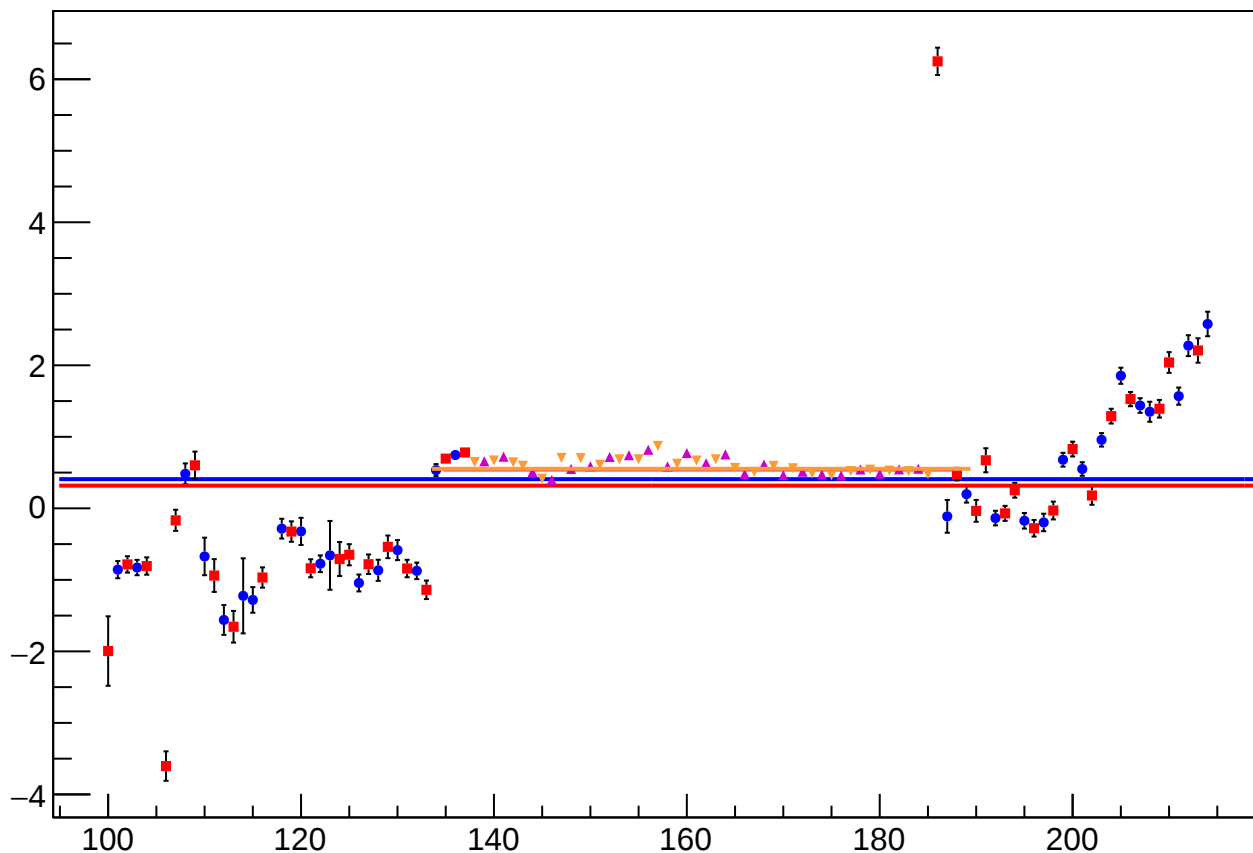
Right: -49.005 ± 0.284 $\chi^2/\text{NDF}: 12093.0/64$

In: -30.724 ± 0.081 $\chi^2/\text{NDF}: 15794.2/53$

Out: -31.131 ± 0.080 $\chi^2/\text{NDF}: 15822.8/58$

All: -30.930 ± 0.057 $\chi^2/\text{NDF}: 31629.8/112$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.408 ± 0.019 χ^2/NDF : 1960.9/30

Left Out: 0.553 ± 0.004 χ^2/NDF : 542.1/24

Right Out: 0.318 ± 0.020 χ^2/NDF : 2987.9/33

Left In: 0.544 ± 0.004 χ^2/NDF : 655.9/22

Left: 0.548 ± 0.003 χ^2/NDF : 1200.9/47

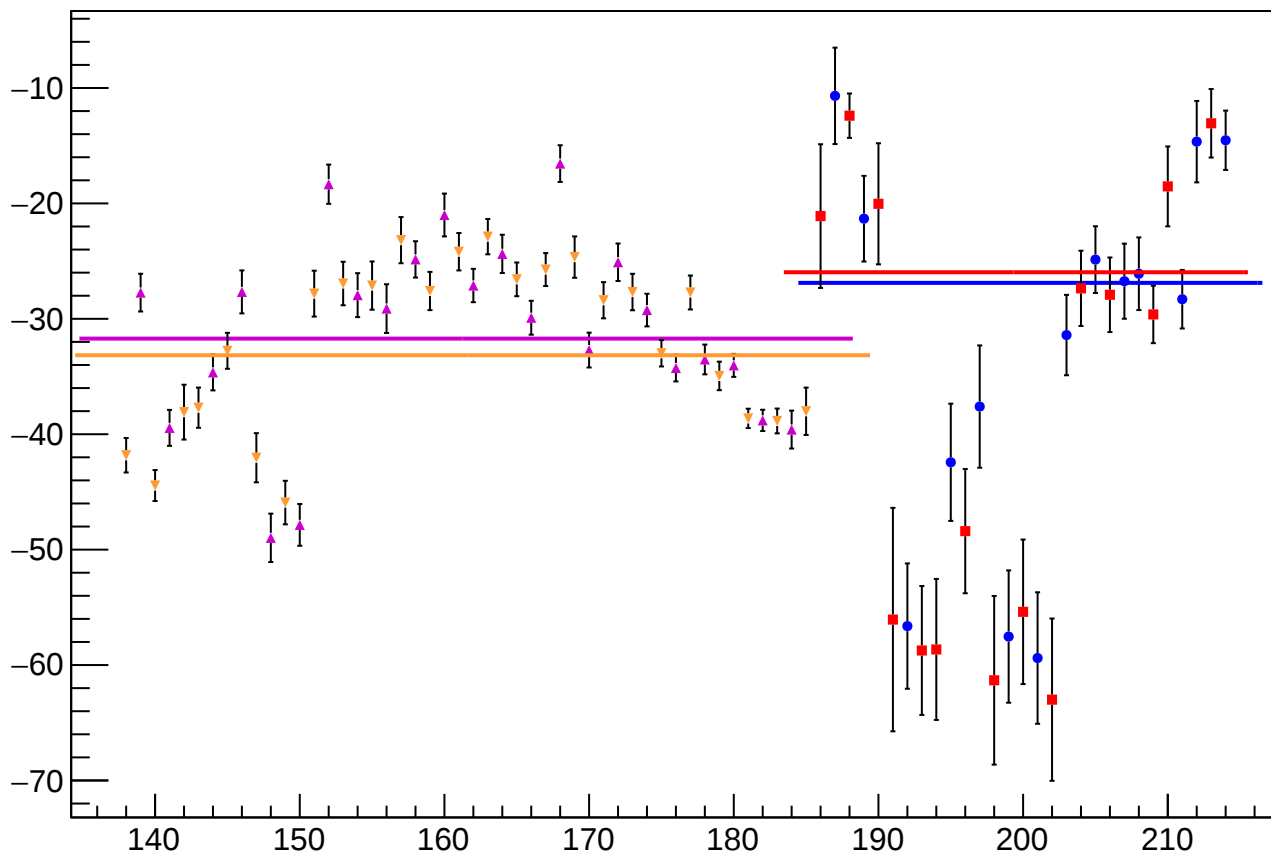
Right: 0.365 ± 0.014 χ^2/NDF : 4959.5/64

In: 0.539 ± 0.004 χ^2/NDF : 2665.9/53

Out: 0.545 ± 0.004 χ^2/NDF : 3663.2/58

All: 0.542 ± 0.003 χ^2/NDF : 6330.7/112

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -26.884 ± 0.960 χ^2/NDF : 159.6/13

Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24

Right Out: -25.965 ± 0.976 χ^2/NDF : 241.2/14

Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47

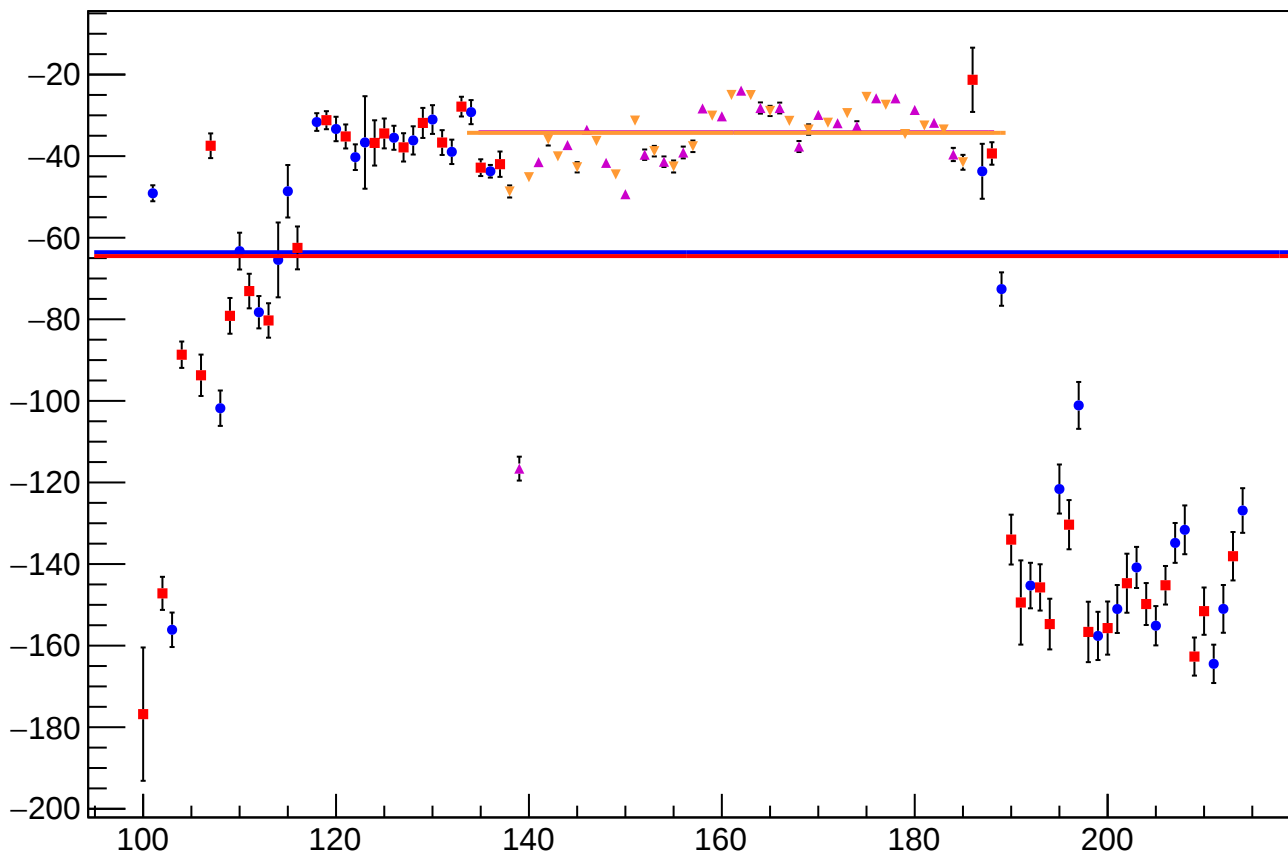
Right: -26.432 ± 0.685 χ^2/NDF : 401.2/28

In: -31.261 ± 0.294 χ^2/NDF : 724.8/36

Out: -32.536 ± 0.287 χ^2/NDF : 790.8/39

All: -31.914 ± 0.205 χ^2/NDF : 1525.3/76

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -63.554 ± 0.650 $\chi^2/\text{NDF}: 4210.3/30$

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 $\chi^2/\text{NDF}: 2148.1/47$

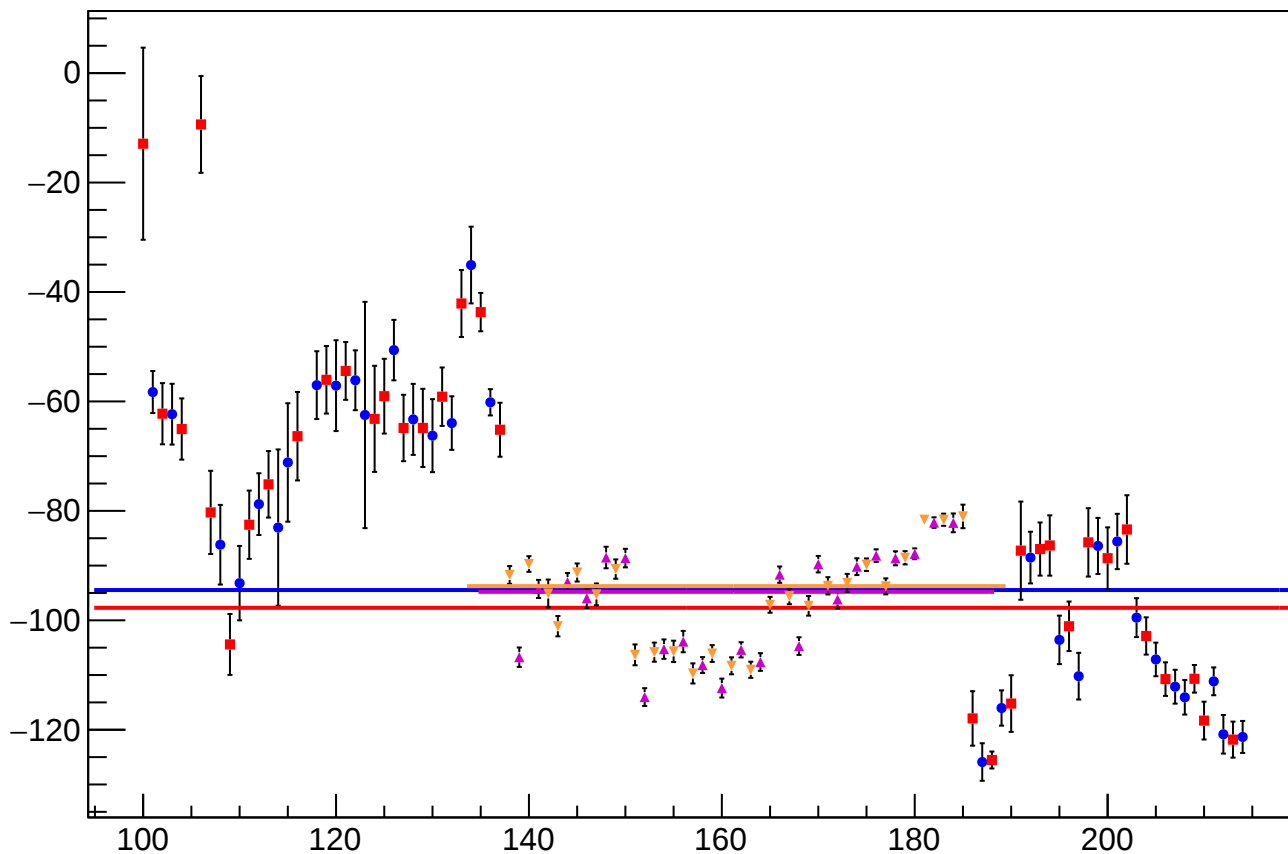
Right: -64.015 ± 0.467 $\chi^2/\text{NDF}: 8611.9/64$

In: -37.951 ± 0.234 $\chi^2/\text{NDF}: 7442.5/53$

Out: -37.760 ± 0.227 $\chi^2/\text{NDF}: 6895.5/58$

All: -37.853 ± 0.163 $\chi^2/\text{NDF}: 14338.3/112$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -94.465 ± 0.761 χ^2/NDF : 1090.5/30

Left Out: -93.754 ± 0.302 χ^2/NDF : 883.1/24

Right Out: -97.713 ± 0.754 χ^2/NDF : 1370.9/33

Left In: -94.796 ± 0.308 χ^2/NDF : 974.7/22

Left: -94.264 ± 0.216 χ^2/NDF : 1863.6/47

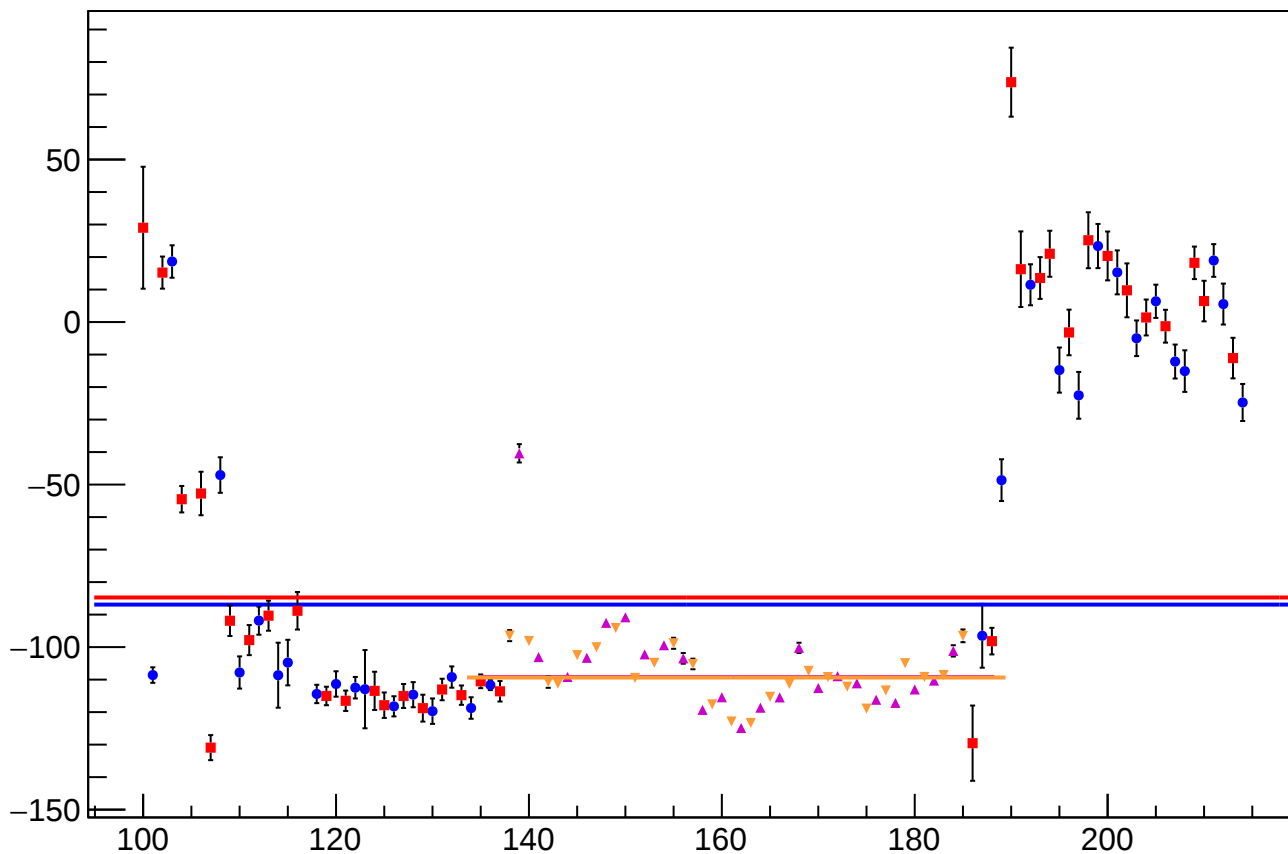
Right: -96.105 ± 0.535 χ^2/NDF : 2470.6/64

In: -94.749 ± 0.286 χ^2/NDF : 2065.4/53

Out: -94.301 ± 0.280 χ^2/NDF : 2277.7/58

All: -94.521 ± 0.200 χ^2/NDF : 4344.4/112

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -86.920 ± 0.732 $\chi^2/\text{NDF}: 4048.9/30$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -84.735 ± 0.767 $\chi^2/\text{NDF}: 4233.7/33$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

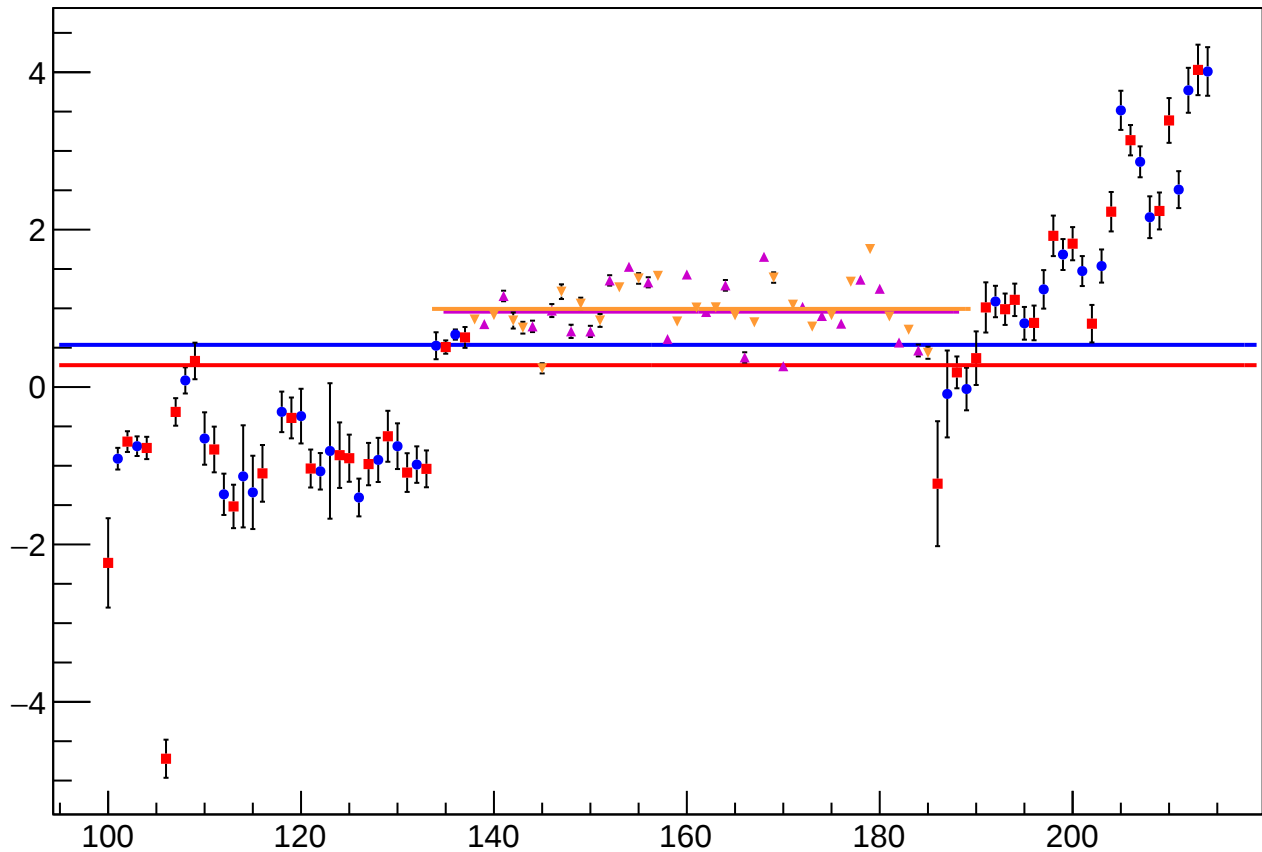
Right: -85.878 ± 0.530 $\chi^2/\text{NDF}: 8286.8/64$

In: -106.346 ± 0.261 $\chi^2/\text{NDF}: 6356.6/53$

Out: -106.613 ± 0.256 $\chi^2/\text{NDF}: 5976.6/58$

All: -106.483 ± 0.183 $\chi^2/\text{NDF}: 12333.8/112$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.536 ± 0.035 $\chi^2/\text{NDF}: 1290.7/30$

Left Out: 0.993 ± 0.012 $\chi^2/\text{NDF}: 638.6/24$

Right Out: 0.278 ± 0.036 $\chi^2/\text{NDF}: 1553.4/33$

Left In: 0.958 ± 0.013 $\chi^2/\text{NDF}: 894.5/22$

Left: 0.976 ± 0.009 $\chi^2/\text{NDF}: 1537.0/47$

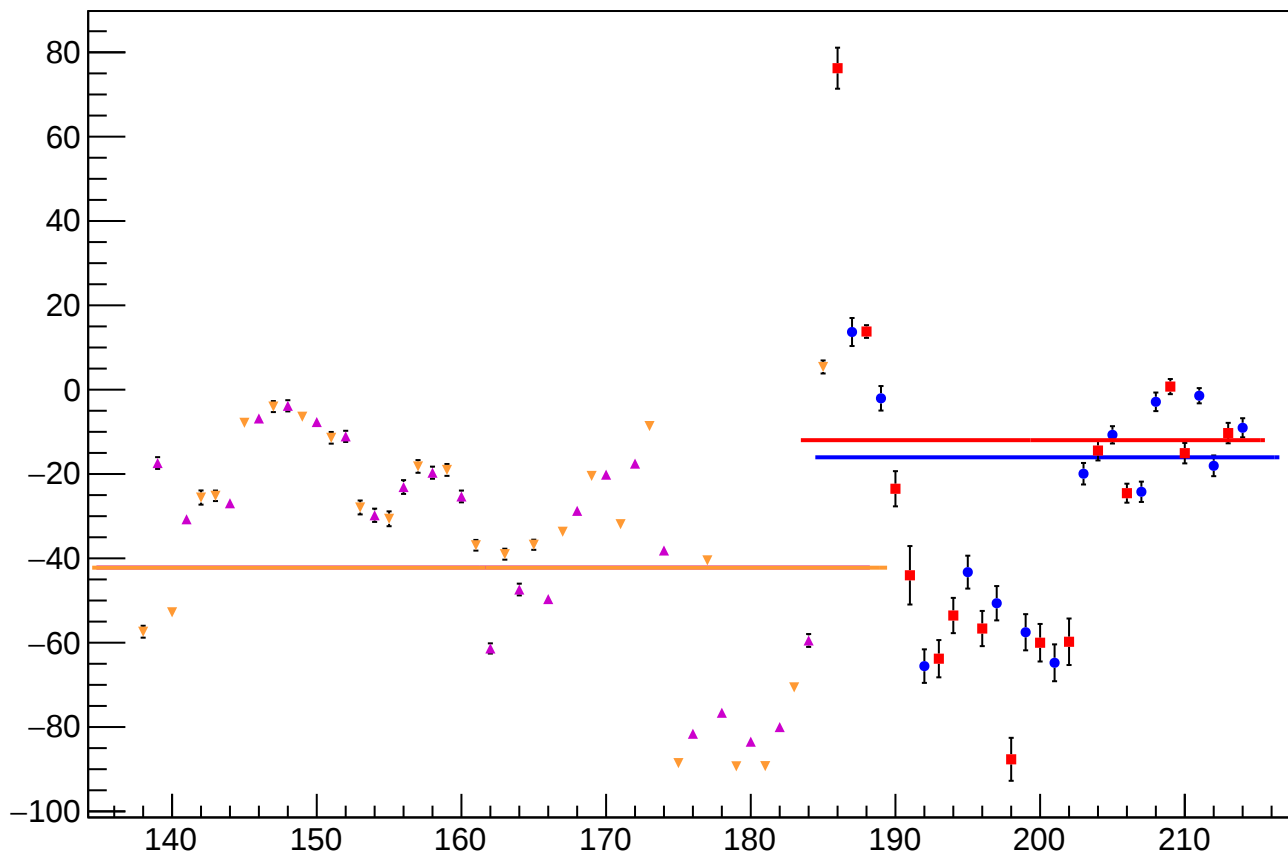
Right: 0.411 ± 0.025 $\chi^2/\text{NDF}: 2870.5/64$

In: 0.909 ± 0.012 $\chi^2/\text{NDF}: 2313.3/53$

Out: 0.917 ± 0.012 $\chi^2/\text{NDF}: 2543.0/58$

All: 0.913 ± 0.008 $\chi^2/\text{NDF}: 4856.6/112$

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -16.039 ± 0.718 $\chi^2/\text{NDF}: 728.7/13$

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 $\chi^2/\text{NDF}: 32885.0/47$

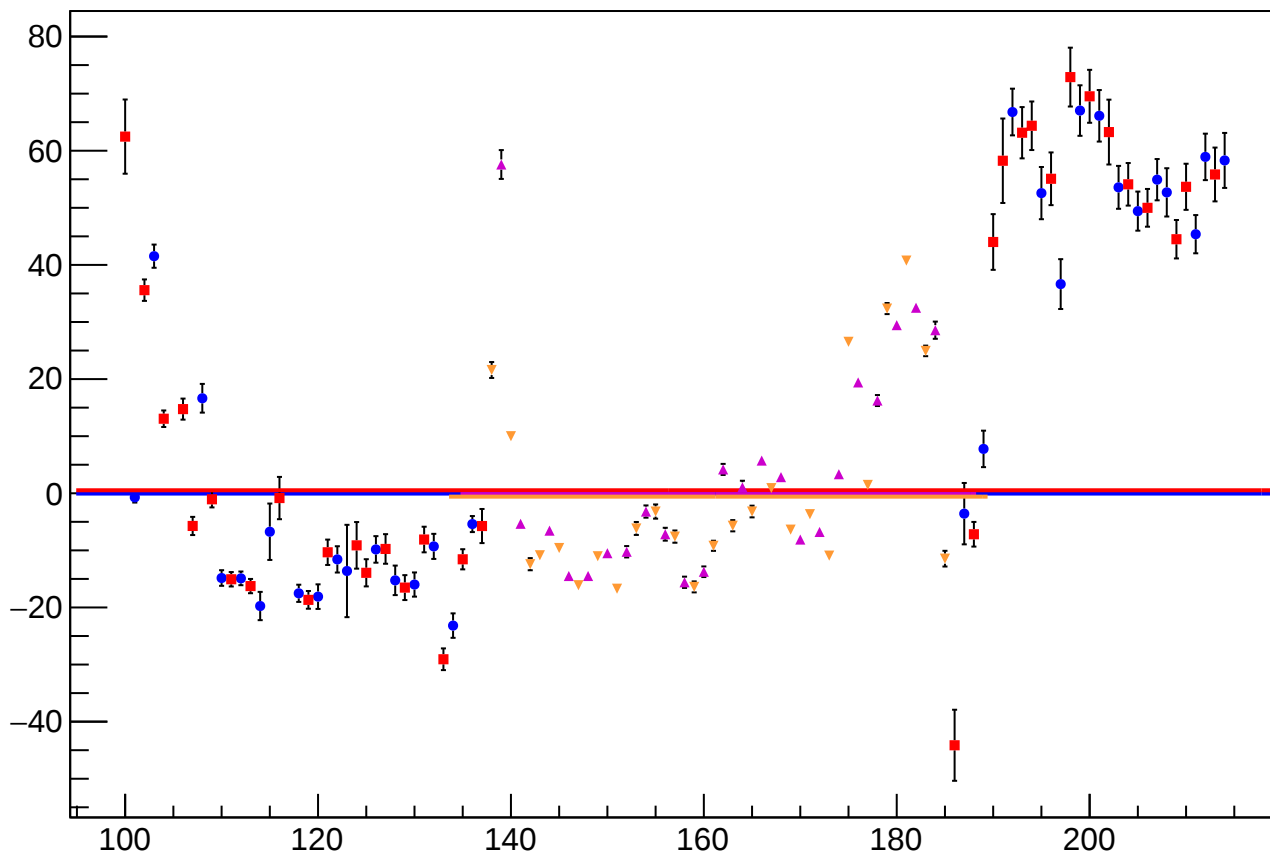
Right: -14.040 ± 0.512 $\chi^2/\text{NDF}: 2241.6/28$

In: -39.798 ± 0.216 $\chi^2/\text{NDF}: 16509.9/36$

Out: -39.651 ± 0.212 $\chi^2/\text{NDF}: 21377.9/39$

All: -39.723 ± 0.152 $\chi^2/\text{NDF}: 37888.0/76$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.050 ± 0.400 χ^2/NDF : 3550.4/30

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

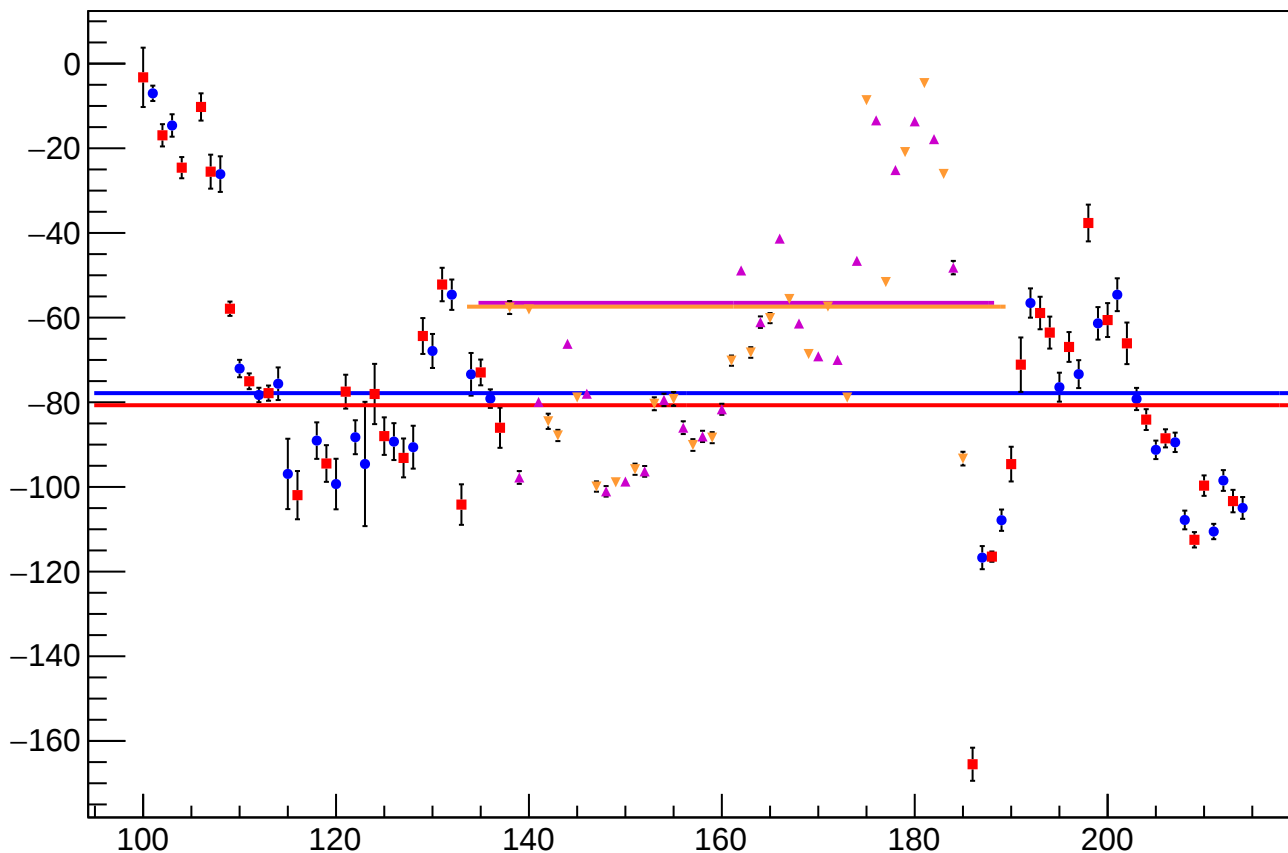
Right: 0.240 ± 0.282 χ^2/NDF : 7294.9/64

In: -0.126 ± 0.163 χ^2/NDF : 10412.9/53

Out: -0.409 ± 0.160 χ^2/NDF : 12501.0/58

All: -0.271 ± 0.114 χ^2/NDF : 22915.4/112

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -77.840 ± 0.510 $\chi^2/\text{NDF} = 3538.4/30$

Left Out: -57.413 ± 0.223 $\chi^2/\text{NDF} = 18604.1/24$

Right Out: -80.697 ± 0.487 $\chi^2/\text{NDF} = 4209.1/33$

Left In: -56.519 ± 0.227 $\chi^2/\text{NDF} = 16352.6/22$

Left: -56.974 ± 0.159 $\chi^2/\text{NDF} = 34964.5/47$

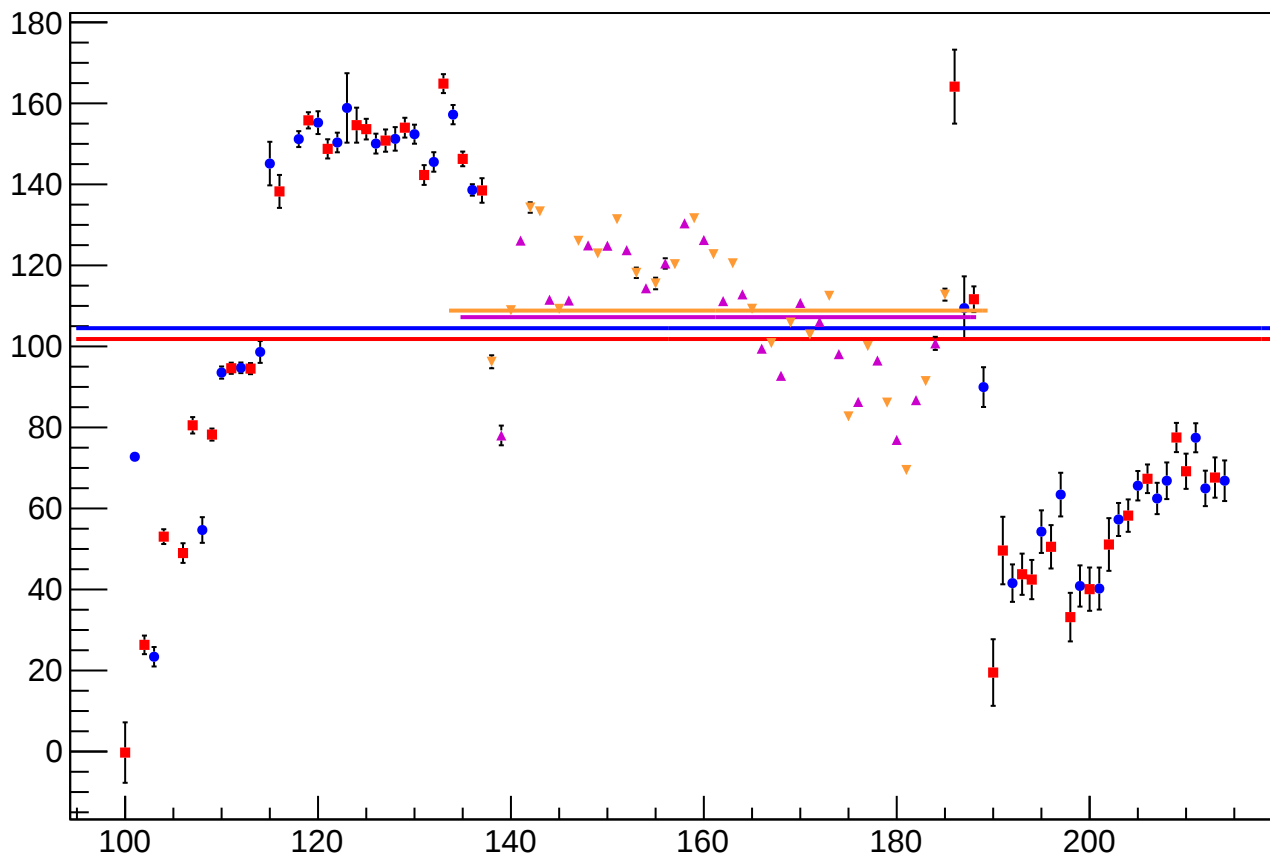
Right: -79.332 ± 0.352 $\chi^2/\text{NDF} = 7763.9/64$

In: -60.051 ± 0.207 $\chi^2/\text{NDF} = 21351.6/53$

Out: -61.451 ± 0.203 $\chi^2/\text{NDF} = 24700.1/58$

All: -60.766 ± 0.145 $\chi^2/\text{NDF} = 46075.1/112$

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 104.503 $\pm$ 0.455 χ^2 /NDF: 7332.1/30

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

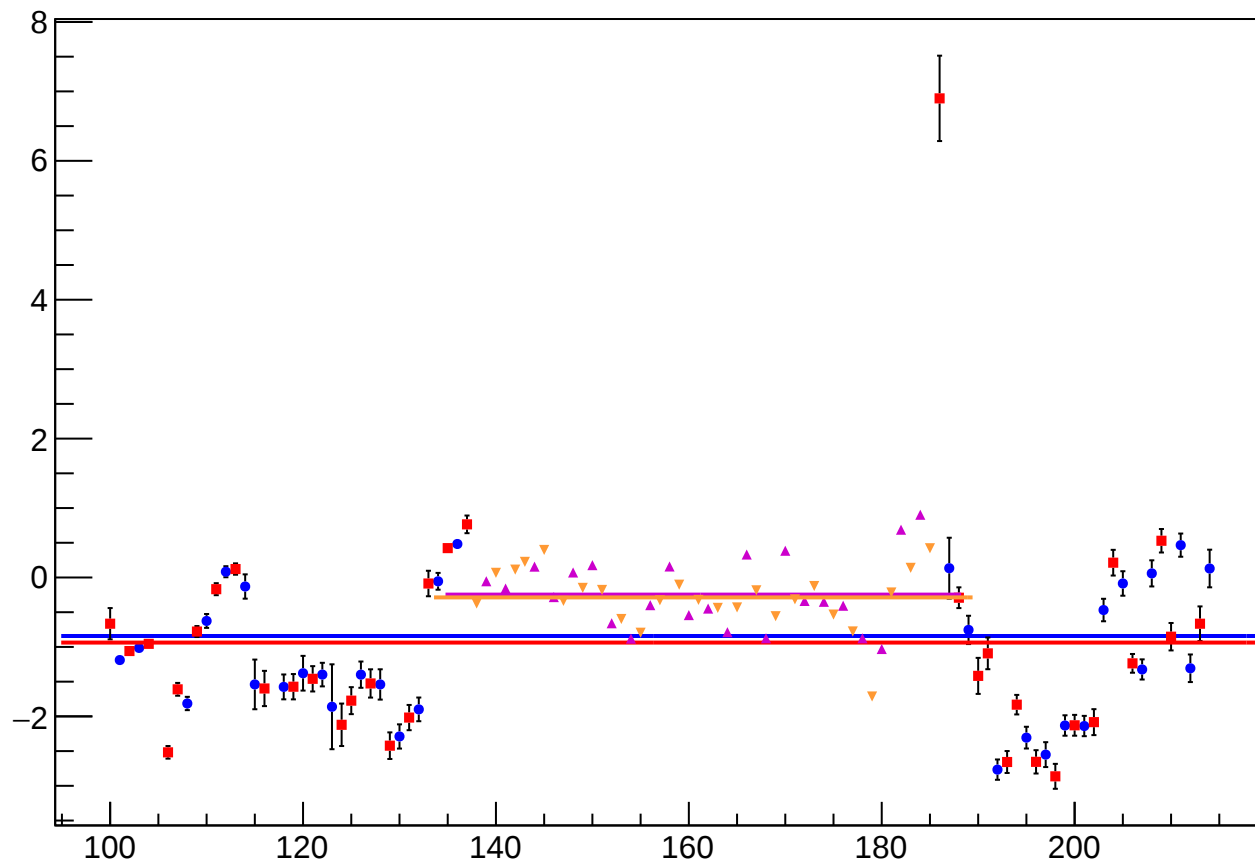
Right: 103.163 $\pm$ 0.321 χ^2 /NDF: 15770.3/64

In: 106.774 $\pm$ 0.185 χ^2 /NDF: 12927.3/53

Out: 107.731 $\pm$ 0.181 χ^2 /NDF: 16022.2/58

All: 107.263 $\pm$ 0.129 χ^2 /NDF: 28963.1/112

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.843 ± 0.023 χ^2/NDF : 1672.2/30

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

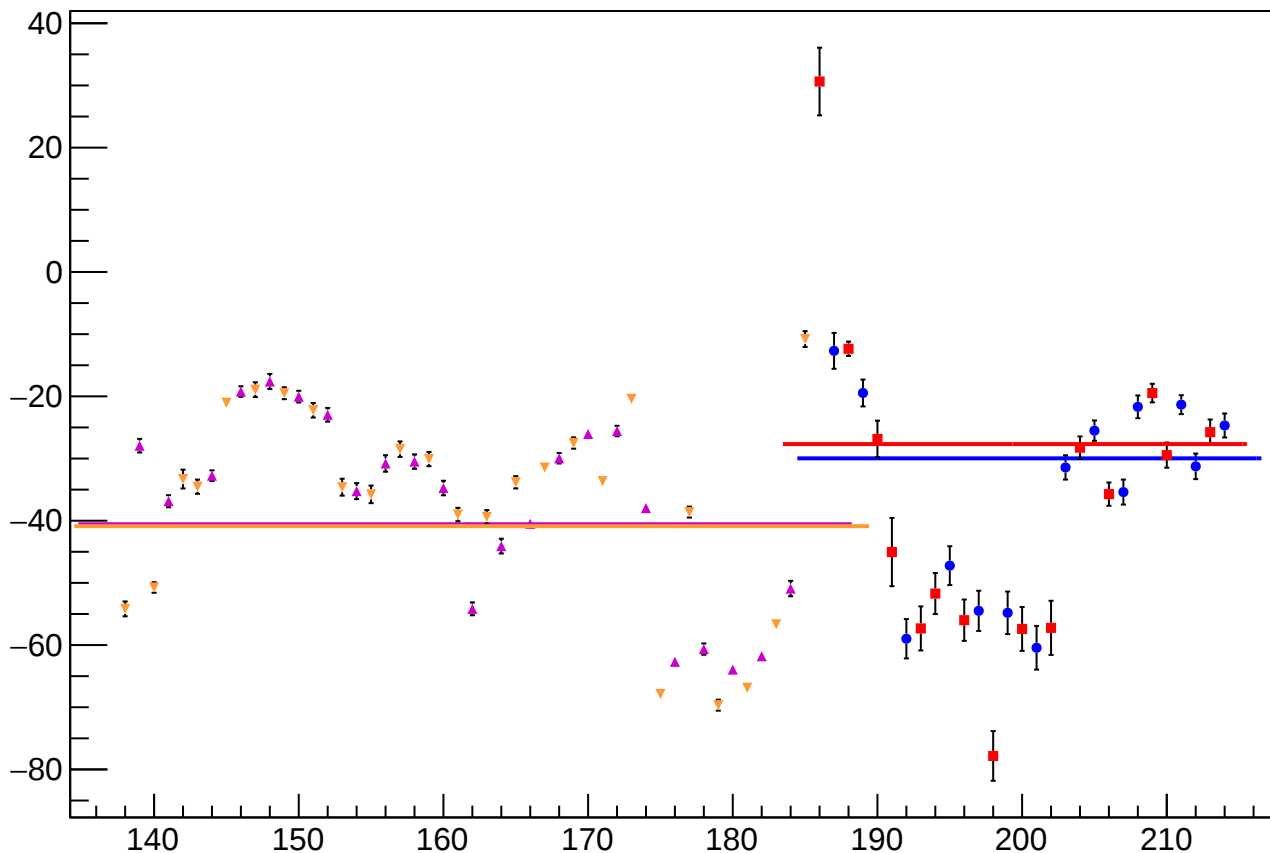
Right: -0.892 ± 0.016 χ^2/NDF : 3793.5/64

In: -0.332 ± 0.009 χ^2/NDF : 5060.5/53

Out: -0.385 ± 0.008 χ^2/NDF : 4939.1/58

All: -0.359 ± 0.006 χ^2/NDF : 10018.9/112

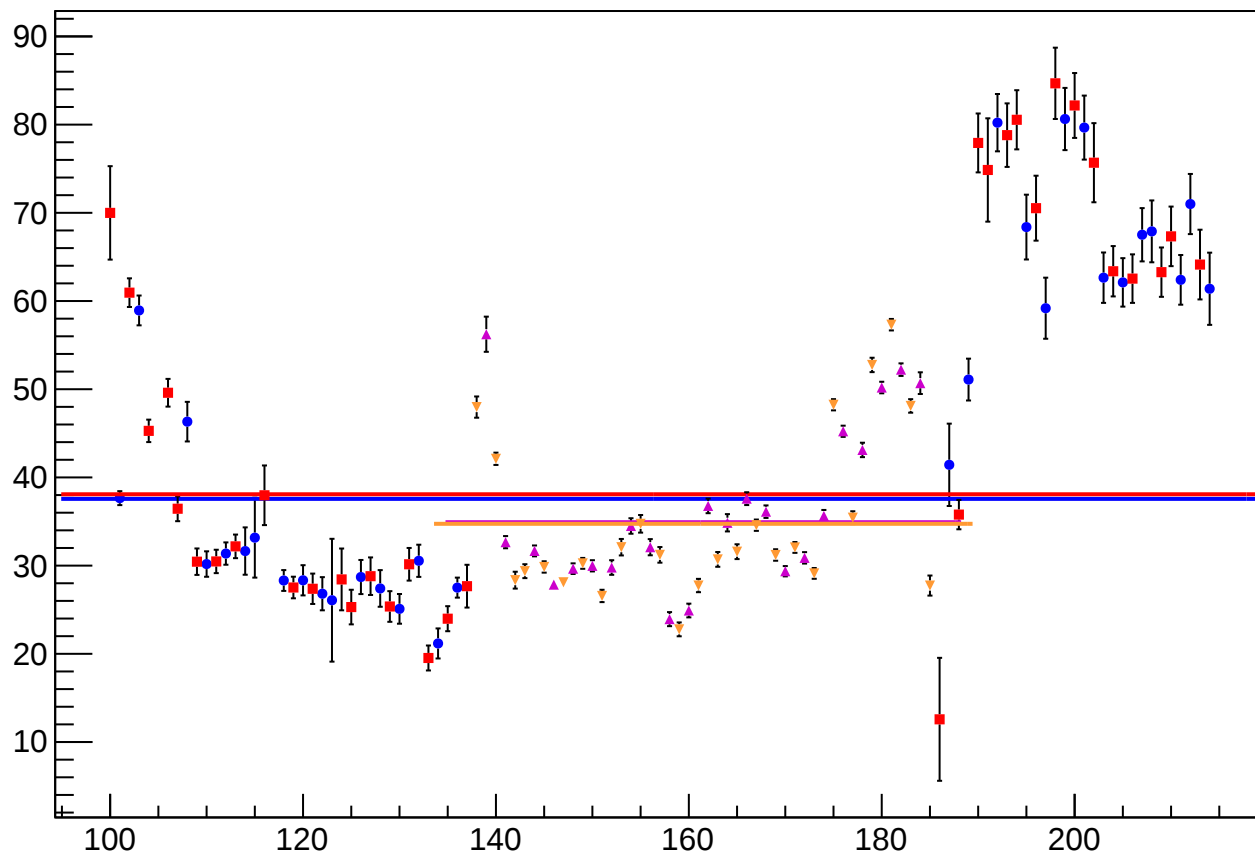
reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.971 ± 0.585 $\chi^2/\text{NDF}: 435.7/13$
 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: -28.824 ± 0.414 $\chi^2/\text{NDF}: 1264.9/28$
 In: -39.557 ± 0.181 $\chi^2/\text{NDF}: 7687.0/36$
 Out: -39.668 ± 0.177 $\chi^2/\text{NDF}: 10406.5/39$
 All: -39.614 ± 0.127 $\chi^2/\text{NDF}: 18093.7/76$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 37.568 $\pm$ 0.345 χ^2 /NDF: 1778.8/30

Left Out: 34.741 $\pm$ 0.147 χ^2 /NDF: 3693.2/24

Right Out: 38.089 $\pm$ 0.345 χ^2 /NDF: 2209.5/33

Left In: 34.922 $\pm$ 0.152 χ^2 /NDF: 2672.9/22

Left: 34.829 $\pm$ 0.106 χ^2 /NDF: 6366.8/47

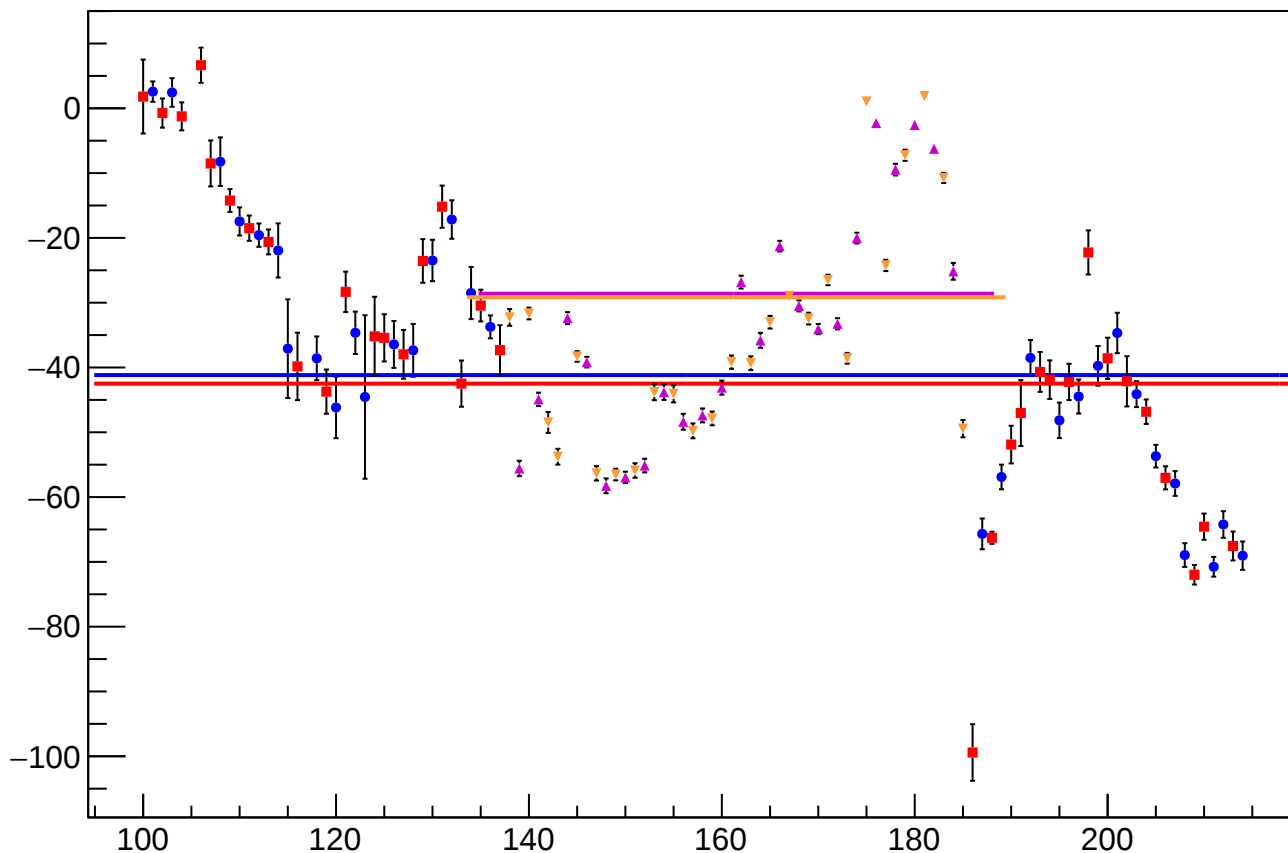
Right: 37.828 $\pm$ 0.244 χ^2 /NDF: 3989.4/64

In: 35.351 $\pm$ 0.139 χ^2 /NDF: 4501.1/53

Out: 35.258 $\pm$ 0.136 χ^2 /NDF: 5982.4/58

All: 35.304 $\pm$ 0.097 χ^2 /NDF: 10483.6/112

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.172 $\pm$ 0.433 χ^2/NDF : 2868.8/30

Left Out: -29.163 $\pm$ 0.187 χ^2/NDF :10126.0/24

Right Out: -42.491 $\pm$ 0.414 χ^2/NDF : 3449.5/33

Left In: -28.616 $\pm$ 0.190 χ^2/NDF :9040.9/22

Left: -28.894 $\pm$ 0.133 χ^2/NDF : 19171.1/47

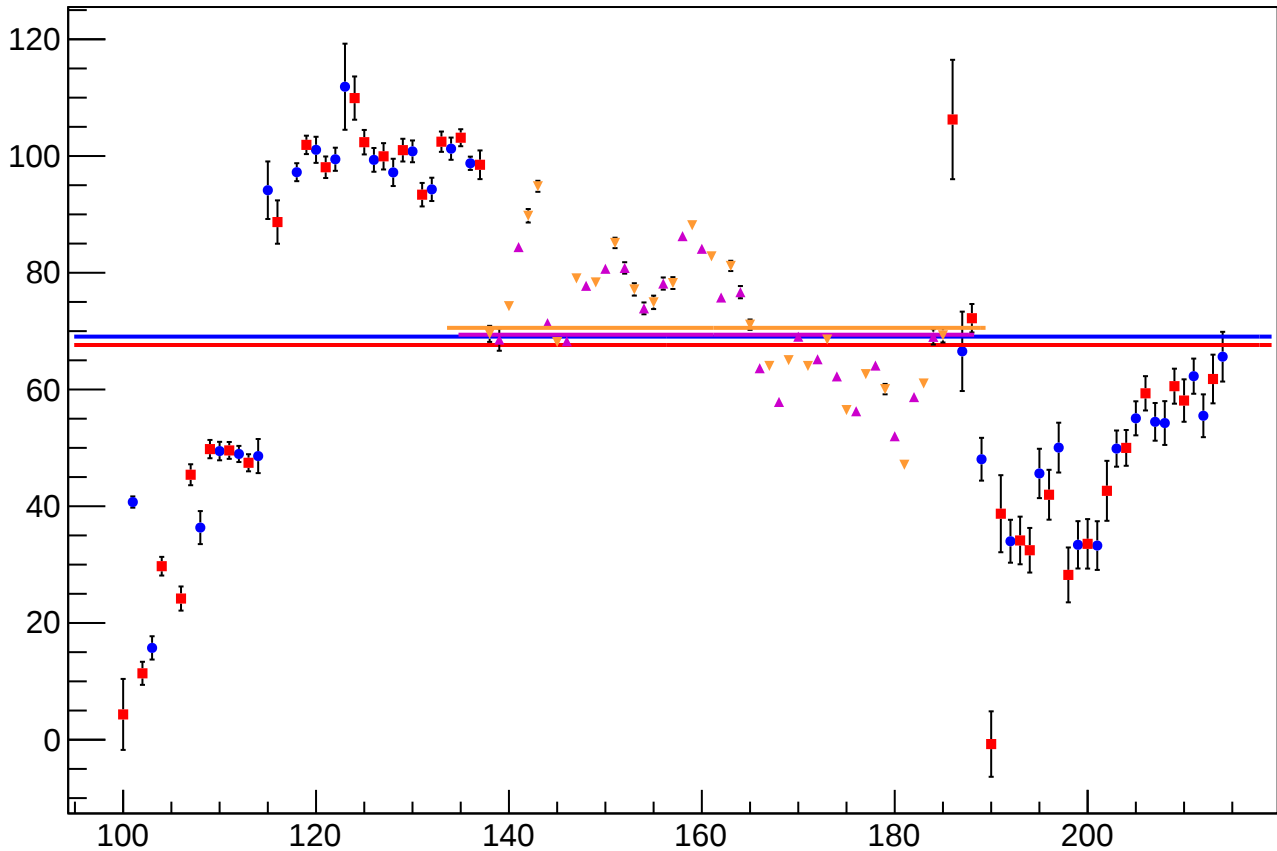
Right: -41.861 $\pm$ 0.299 χ^2/NDF : 6323.1/64

In: -30.641 $\pm$ 0.174 χ^2/NDF :12615.2/53

Out: -31.424 $\pm$ 0.170 χ^2/NDF :14437.0/58

All: -31.040 $\pm$ 0.122 χ^2/NDF : 27062.6/112

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 69.062 $\pm$ 0.393 χ^2 /NDF: 5179.8/30

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

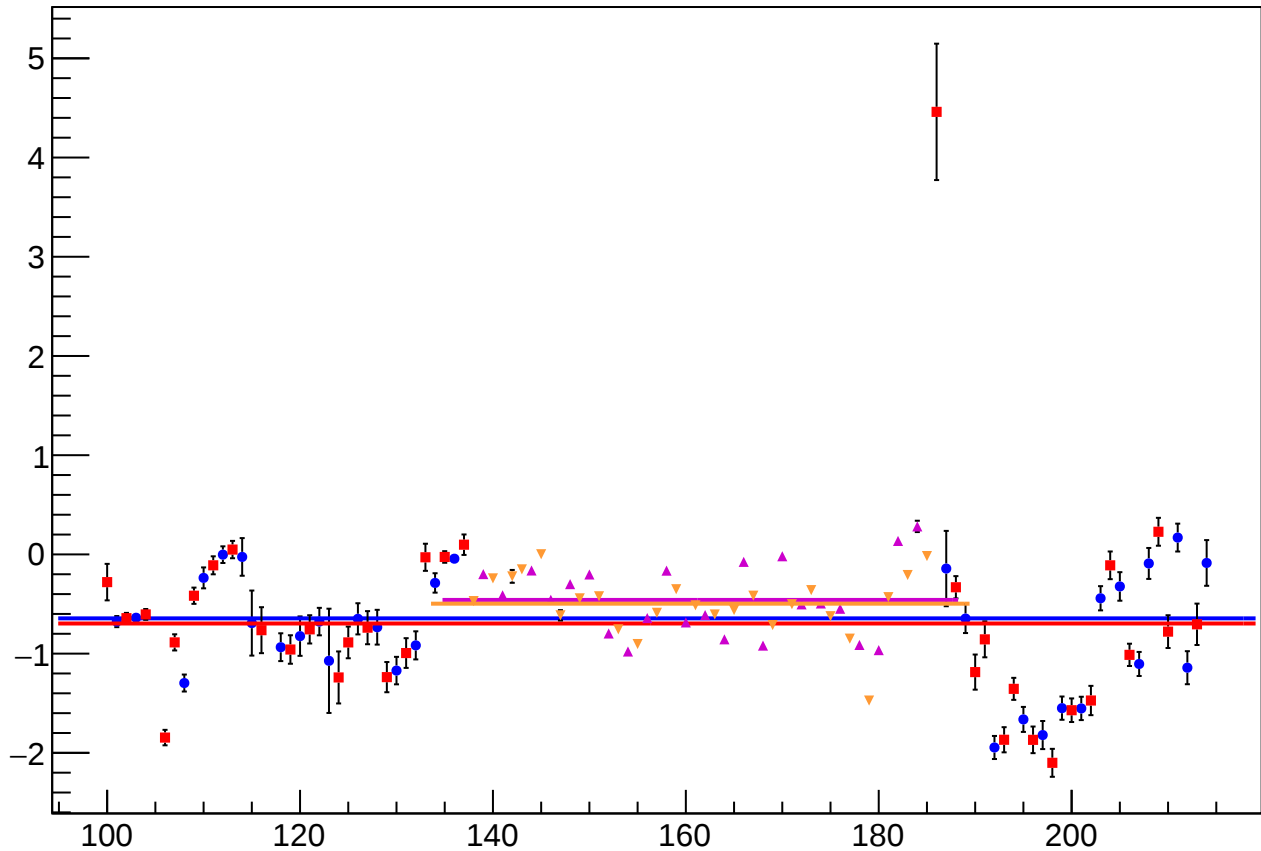
Right: 68.351 $\pm$ 0.280 χ^2 /NDF: 11321.6/64

In: 69.336 $\pm$ 0.156 χ^2 /NDF: 8502.2/53

Out: 70.125 $\pm$ 0.153 χ^2 /NDF: 10770.9/58

All: 69.738 $\pm$ 0.109 χ^2 /NDF: 19286.0/112

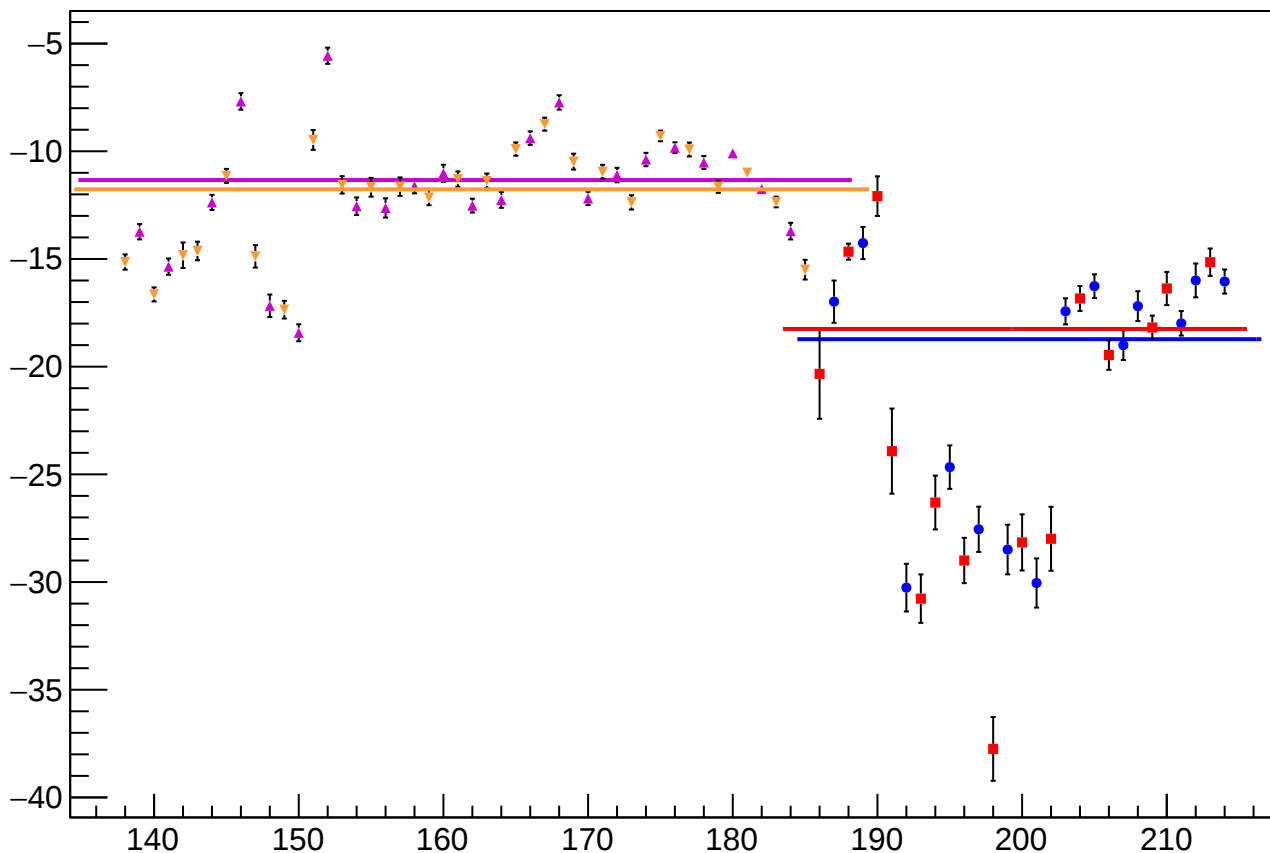
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.645 ± 0.019 χ^2/NDF : 808.4/30
 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: -0.671 ± 0.013 χ^2/NDF : 1934.0/64
 In: -0.485 ± 0.007 χ^2/NDF : 2847.5/53
 Out: -0.525 ± 0.007 χ^2/NDF : 2671.0/58
 All: -0.506 ± 0.005 χ^2/NDF : 5535.0/112

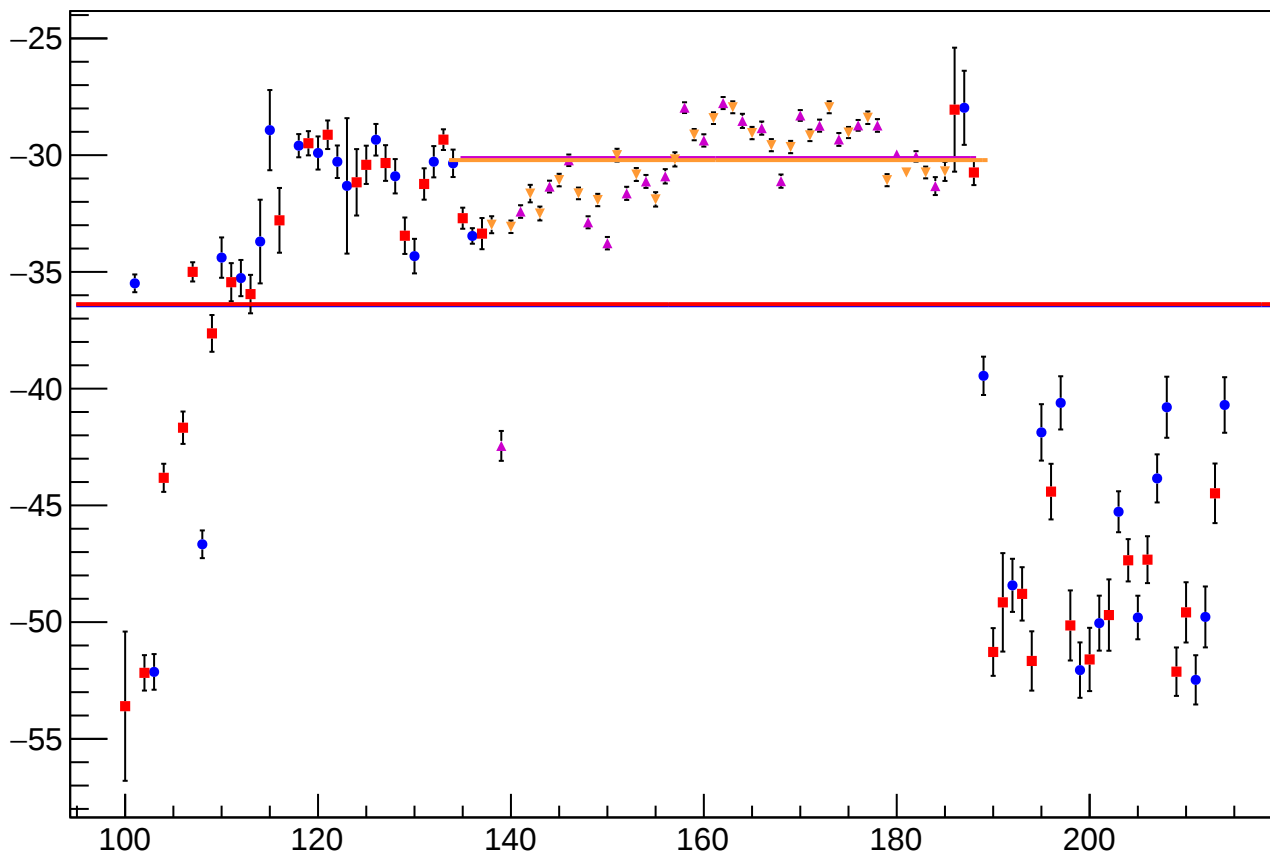
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.725 ± 0.199 $\chi^2/\text{NDF}: 489.6/13$
 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: -18.487 ± 0.141 $\chi^2/\text{NDF}: 1222.7/28$
 In: -12.108 ± 0.064 $\chi^2/\text{NDF}: 2990.8/36$
 Out: -12.421 ± 0.063 $\chi^2/\text{NDF}: 2704.9/39$
 All: -12.267 ± 0.045 $\chi^2/\text{NDF}: 5707.7/76$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -36.428 ± 0.135 $\chi^2/\text{NDF}: 2768.2/30$

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 $\chi^2/\text{NDF}: 1961.5/47$

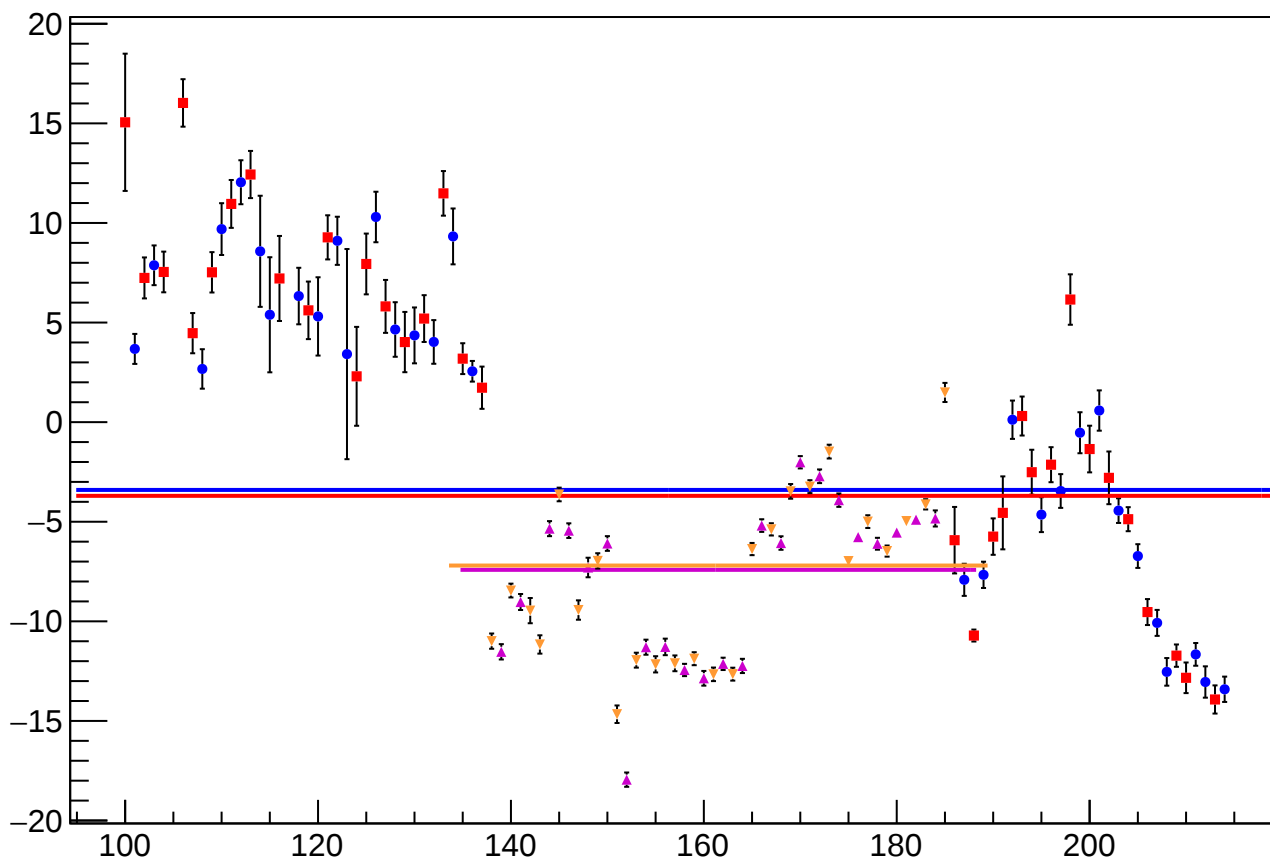
Right: -36.405 ± 0.095 $\chi^2/\text{NDF}: 5925.0/64$

In: -31.038 ± 0.051 $\chi^2/\text{NDF}: 5864.0/53$

Out: -31.080 ± 0.050 $\chi^2/\text{NDF}: 5737.7/58$

All: -31.060 ± 0.036 $\chi^2/\text{NDF}: 11602.0/112$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.403 ± 0.158 χ^2/NDF : 2228.0/30

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

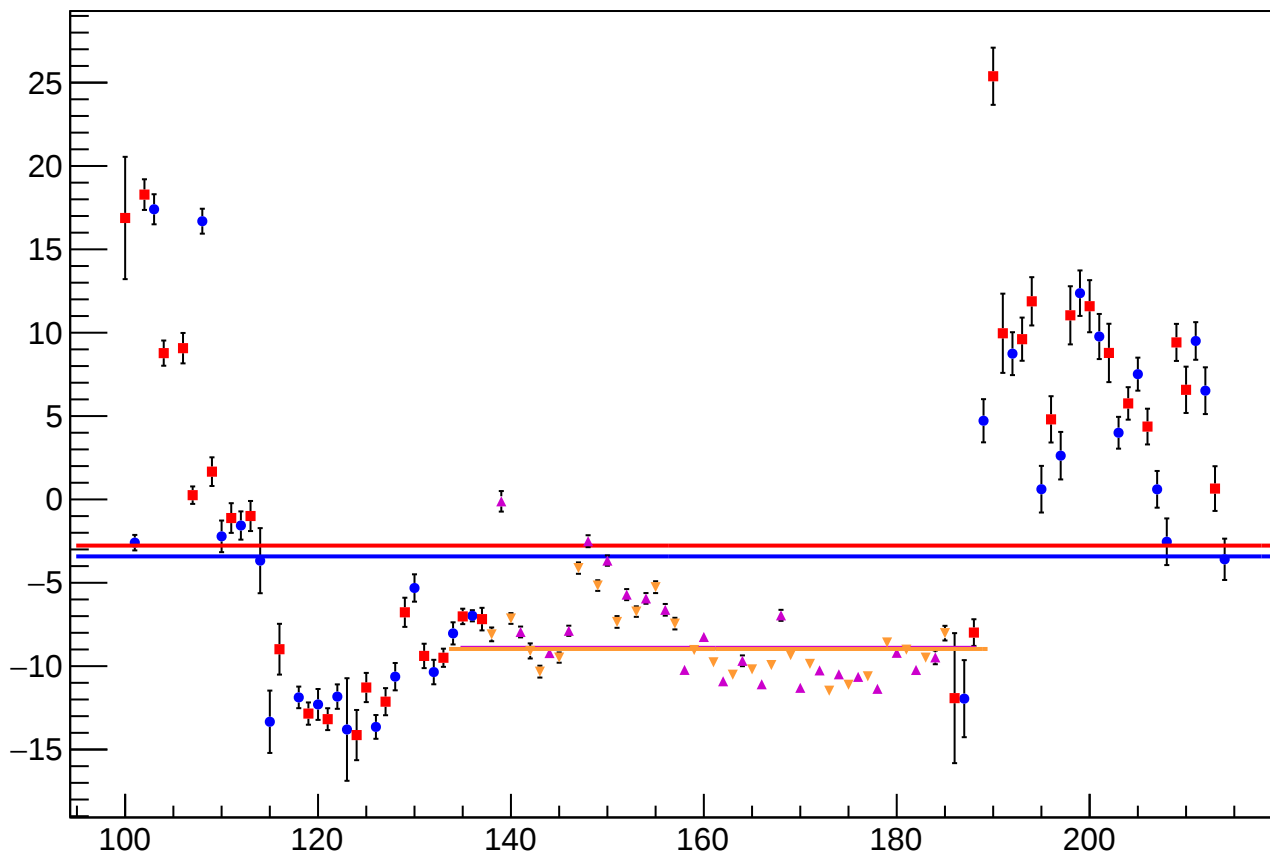
Right: -3.556 ± 0.109 χ^2/NDF : 5260.6/64

In: -6.788 ± 0.062 χ^2/NDF : 5897.3/53

Out: -6.632 ± 0.061 χ^2/NDF : 6511.6/58

All: -6.709 ± 0.044 χ^2/NDF : 12412.1/112

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.417 ± 0.152 $\chi^2/\text{NDF}: 3013.4/30$

Left Out: -8.970 ± 0.060 $\chi^2/\text{NDF}: 878.8/24$

Right Out: -2.769 ± 0.154 $\chi^2/\text{NDF}: 3237.1/33$

Left In: -8.900 ± 0.062 $\chi^2/\text{NDF}: 1533.9/22$

Left: -8.936 ± 0.043 $\chi^2/\text{NDF}: 2413.4/47$

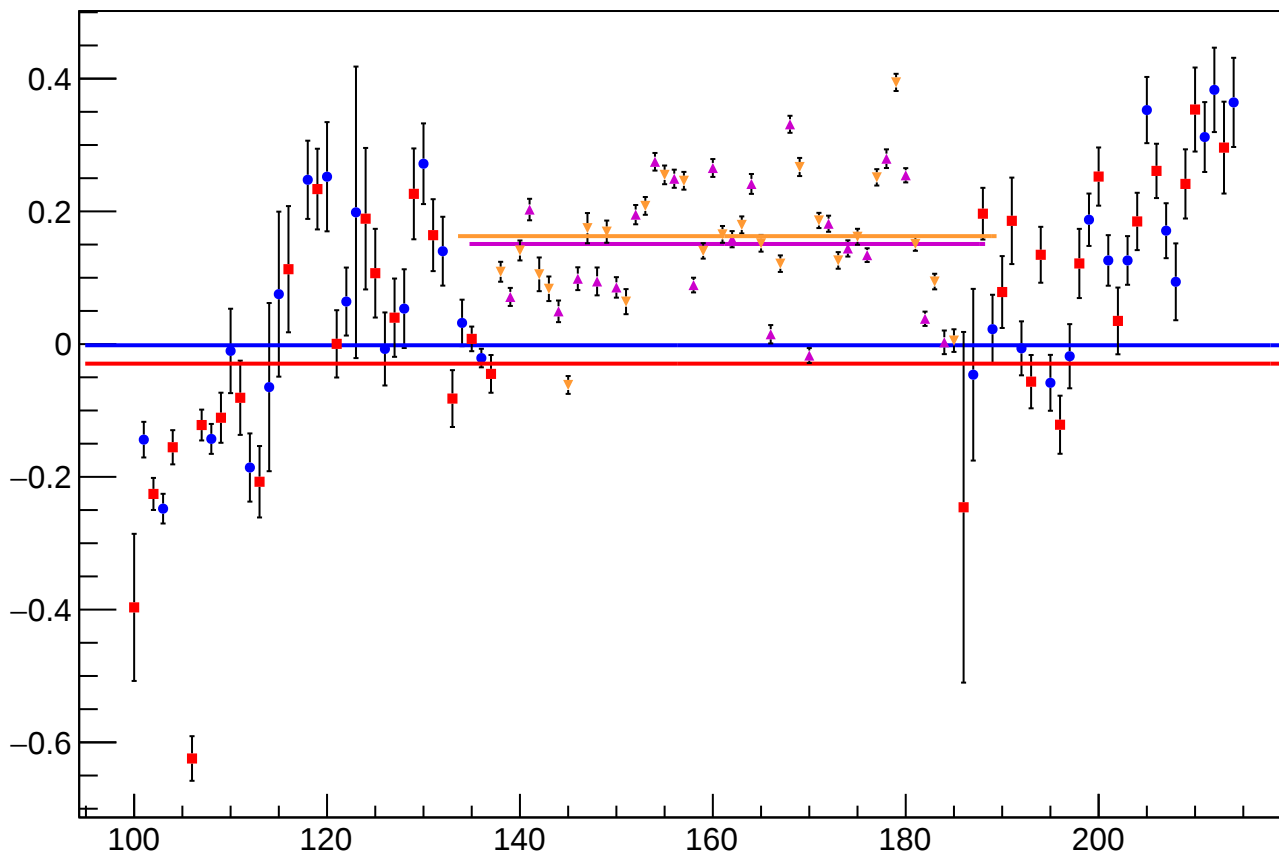
Right: -3.097 ± 0.108 $\chi^2/\text{NDF}: 6259.4/64$

In: -8.129 ± 0.057 $\chi^2/\text{NDF}: 5659.4/53$

Out: -8.152 ± 0.056 $\chi^2/\text{NDF}: 5516.6/58$

All: -8.141 ± 0.040 $\chi^2/\text{NDF}: 11176.1/112$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.007 χ^2/NDF : 484.3/30

Left Out: 0.163 ± 0.003 χ^2/NDF : 1018.1/24

Right Out: -0.029 ± 0.007 χ^2/NDF : 791.5/33

Left In: 0.151 ± 0.003 χ^2/NDF : 1286.5/22

Left: 0.157 ± 0.002 χ^2/NDF : 2313.9/47

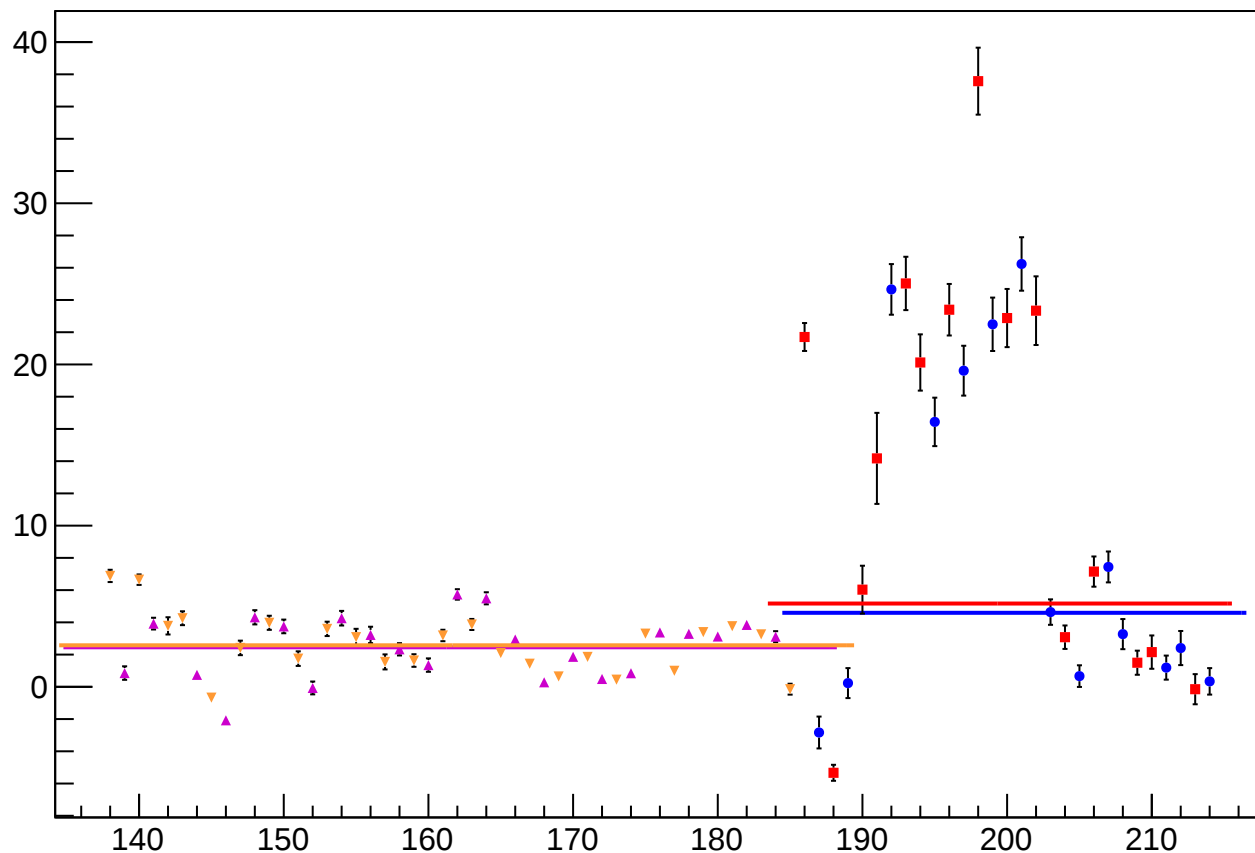
Right: -0.016 ± 0.005 χ^2/NDF : 1283.6/64

In: 0.130 ± 0.003 χ^2/NDF : 2181.1/53

Out: 0.138 ± 0.003 χ^2/NDF : 2458.4/58

All: 0.134 ± 0.002 χ^2/NDF : 4643.6/112

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected

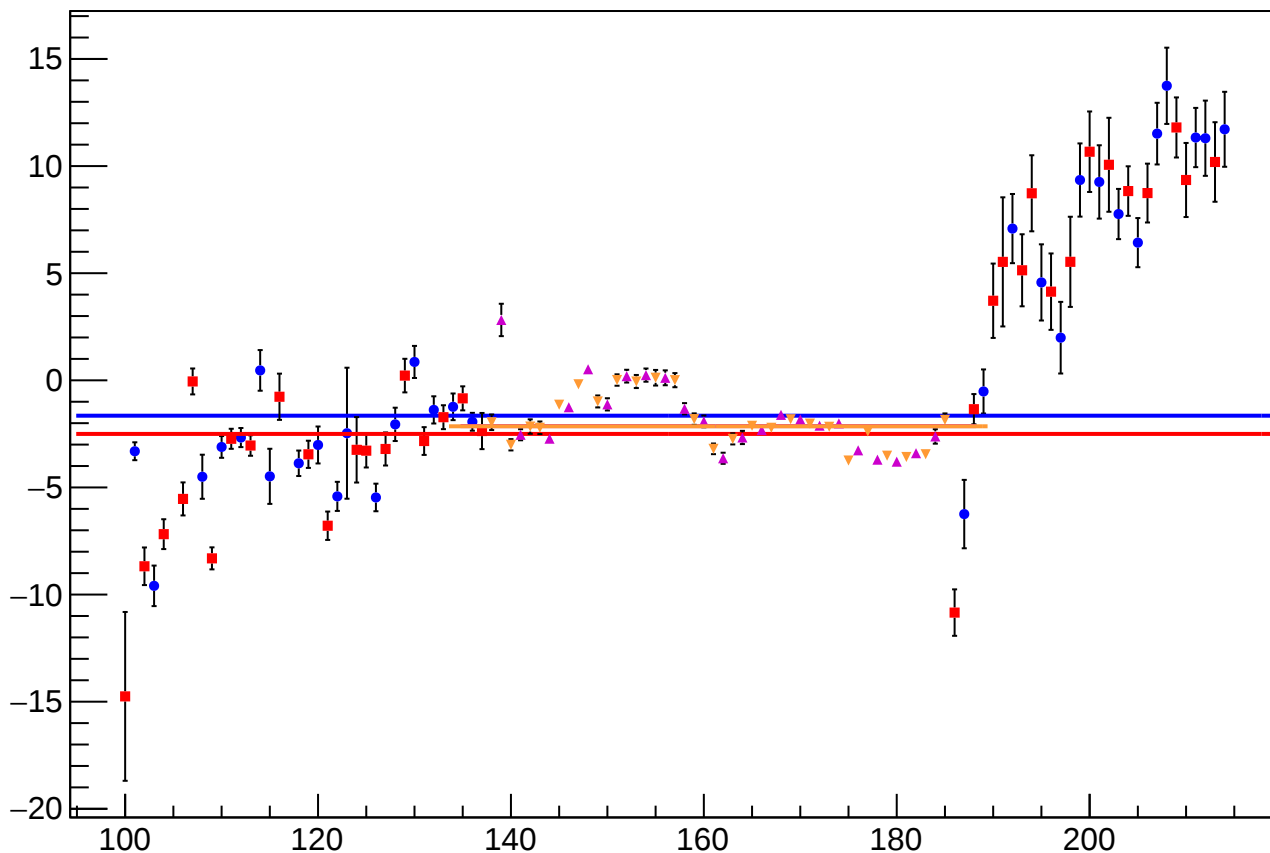


Right In: 4.592 ± 0.264 $\chi^2/\text{NDF}: 782.0/13$
 Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$
 Right Out: 5.168 ± 0.261 $\chi^2/\text{NDF}: 1659.9/14$
 Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$
 Right: 4.883 ± 0.185 $\chi^2/\text{NDF}: 2444.3/28$
 In: 2.555 ± 0.058 $\chi^2/\text{NDF}: 1716.0/36$
 Out: 2.700 ± 0.057 $\chi^2/\text{NDF}: 2621.4/39$

All: 2.629 ± 0.041 $\chi^2/\text{NDF}: 4340.5/76$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.651 ± 0.144 $\chi^2/\text{NDF}: 823.7/30$

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 $\chi^2/\text{NDF}: 1264.6/47$

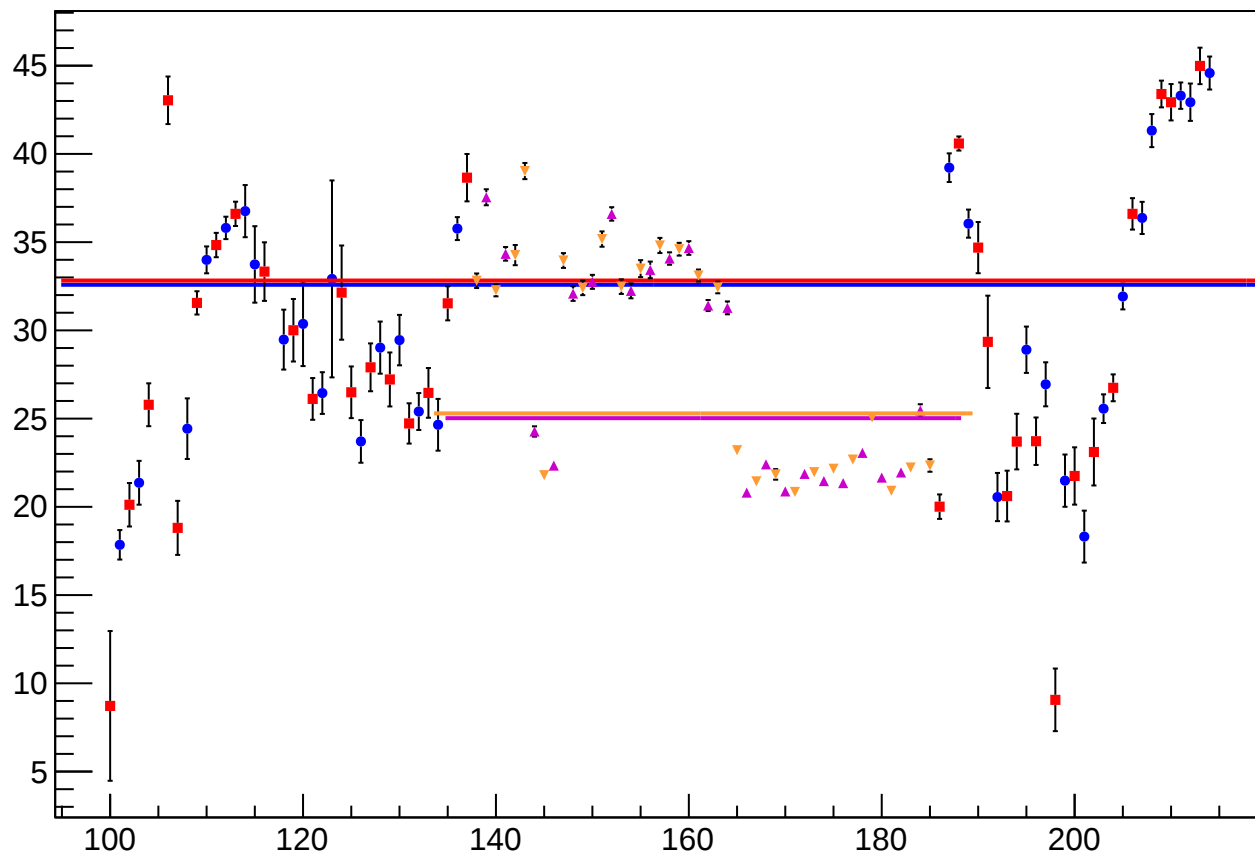
Right: -2.081 ± 0.101 $\chi^2/\text{NDF}: 1792.4/64$

In: -2.087 ± 0.046 $\chi^2/\text{NDF}: 1525.1/53$

Out: -2.182 ± 0.045 $\chi^2/\text{NDF}: 1530.2/58$

All: -2.135 ± 0.032 $\chi^2/\text{NDF}: 3057.4/112$

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.585 $\pm$ 0.185 χ^2 /NDF: 1635.9/30

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

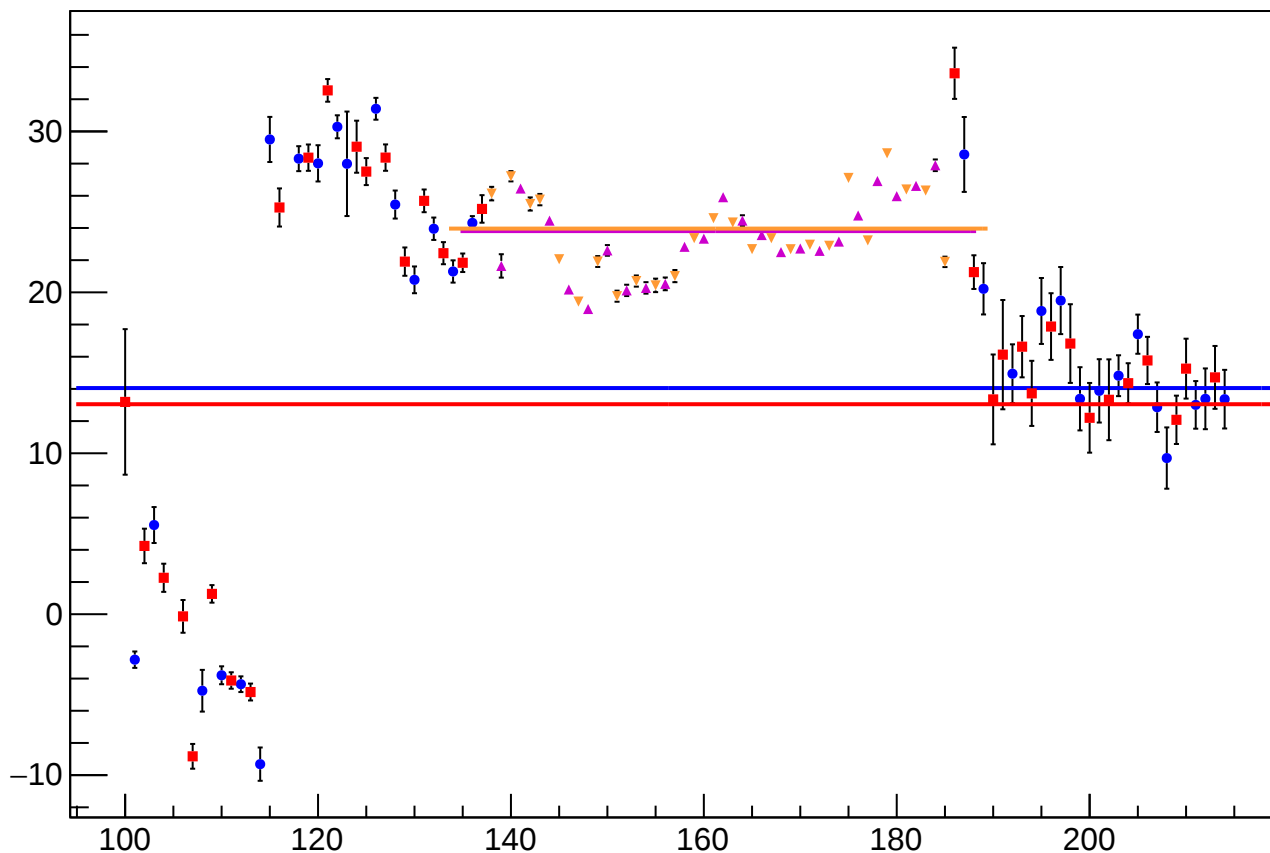
Right: 32.712 $\pm$ 0.127 χ^2 /NDF: 3800.2/64

In: 25.737 $\pm$ 0.057 χ^2 /NDF:10761.5/53

Out: 26.062 $\pm$ 0.056 χ^2 /NDF:12101.5/58

All: 25.902 $\pm$ 0.040 χ^2 /NDF: 22879.7/112

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.053+/-0.162 χ^2/NDF : 7357.5/30

Left Out: 23.962+/-0.053 χ^2/NDF :1922.4/24

Right Out: 13.049+/-0.162 χ^2/NDF : 7214.8/33

Left In: 23.805+/-0.054 χ^2/NDF :1761.3/22

Left: 23.885+/-0.038 χ^2/NDF : 3688.0/47

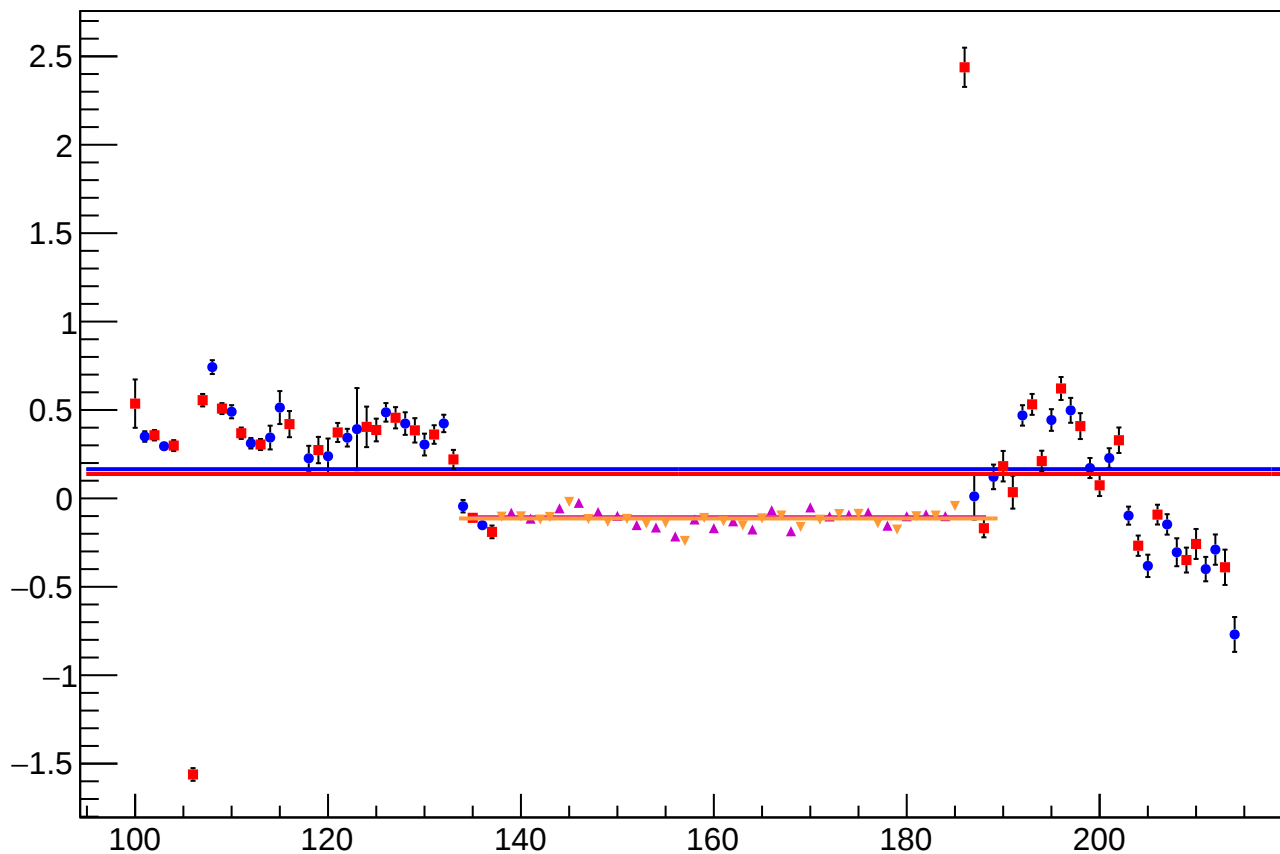
Right: 13.553+/-0.115 χ^2/NDF : 14591.6/64

In: 22.824+/-0.051 χ^2/NDF :12395.3/53

Out: 22.905+/-0.051 χ^2/NDF :13219.9/58

All: 22.865+/-0.036 χ^2/NDF : 25616.5/112

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.165 ± 0.008 χ^2/NDF : 1288.8/30

Left Out: -0.113 ± 0.002 χ^2/NDF : 291.0/24

Right Out: 0.138 ± 0.008 χ^2/NDF : 3767.5/33

Left In: -0.107 ± 0.002 χ^2/NDF : 321.8/22

Left: -0.110 ± 0.002 χ^2/NDF : 616.6/47

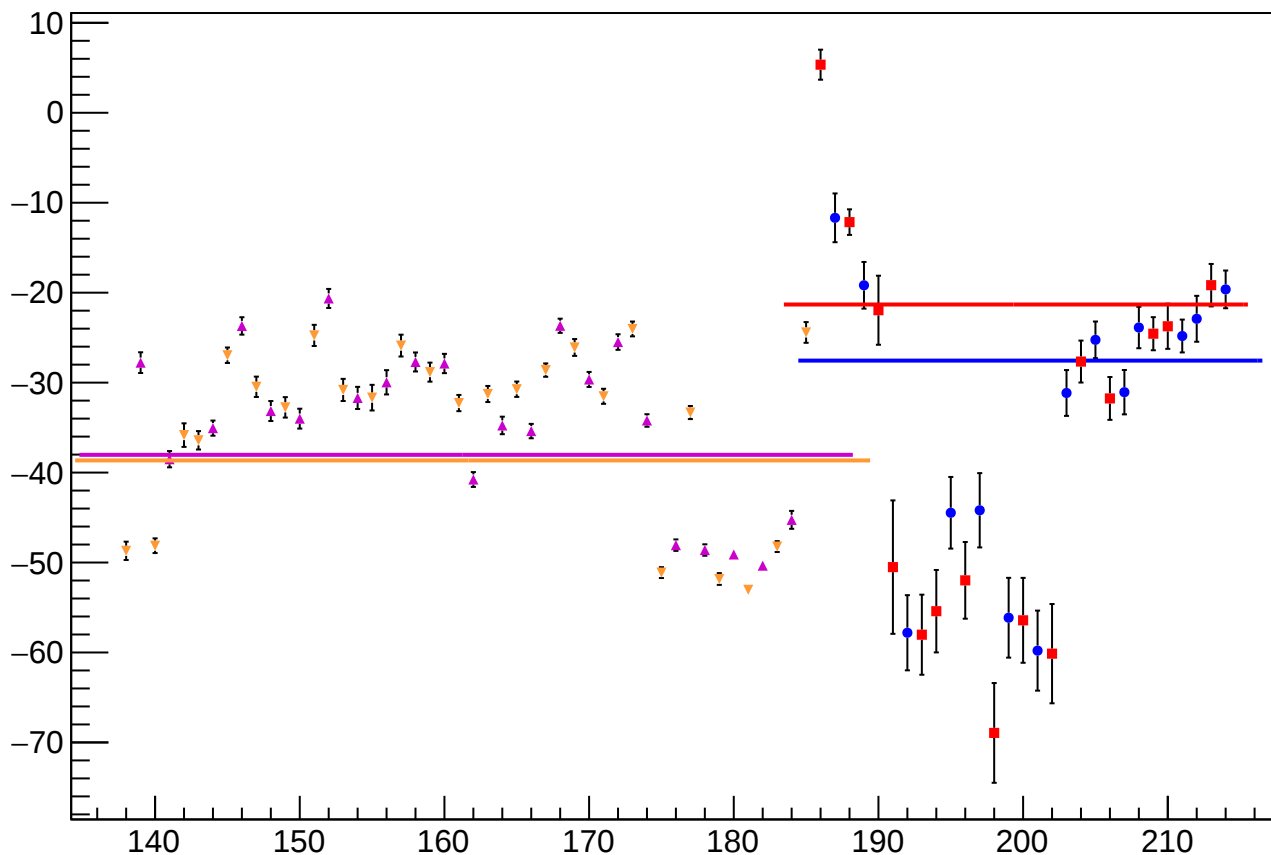
Right: 0.151 ± 0.006 χ^2/NDF : 5061.8/64

In: -0.085 ± 0.002 χ^2/NDF : 2600.4/53

Out: -0.093 ± 0.002 χ^2/NDF : 4929.1/58

All: -0.089 ± 0.002 χ^2/NDF : 7536.2/112

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -27.552 ± 0.708 χ^2/NDF : 253.1/13

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

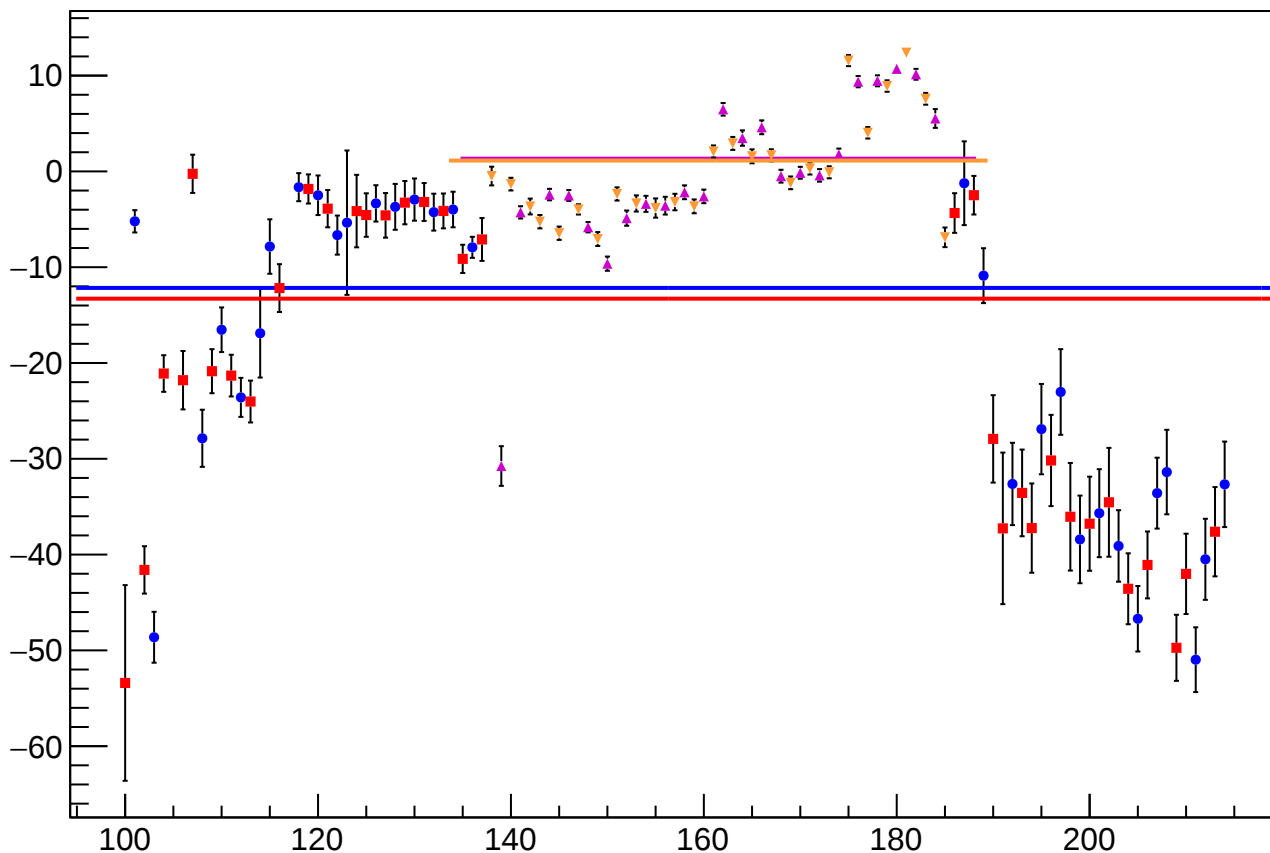
Right: -24.282 ± 0.488 χ^2/NDF : 991.2/28

In: -37.436 ± 0.168 χ^2/NDF : 3551.5/36

Out: -37.625 ± 0.164 χ^2/NDF : 5396.0/39

All: -37.533 ± 0.117 χ^2/NDF : 8948.2/76

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.162 ± 0.427 χ^2/NDF : 982.7/30

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

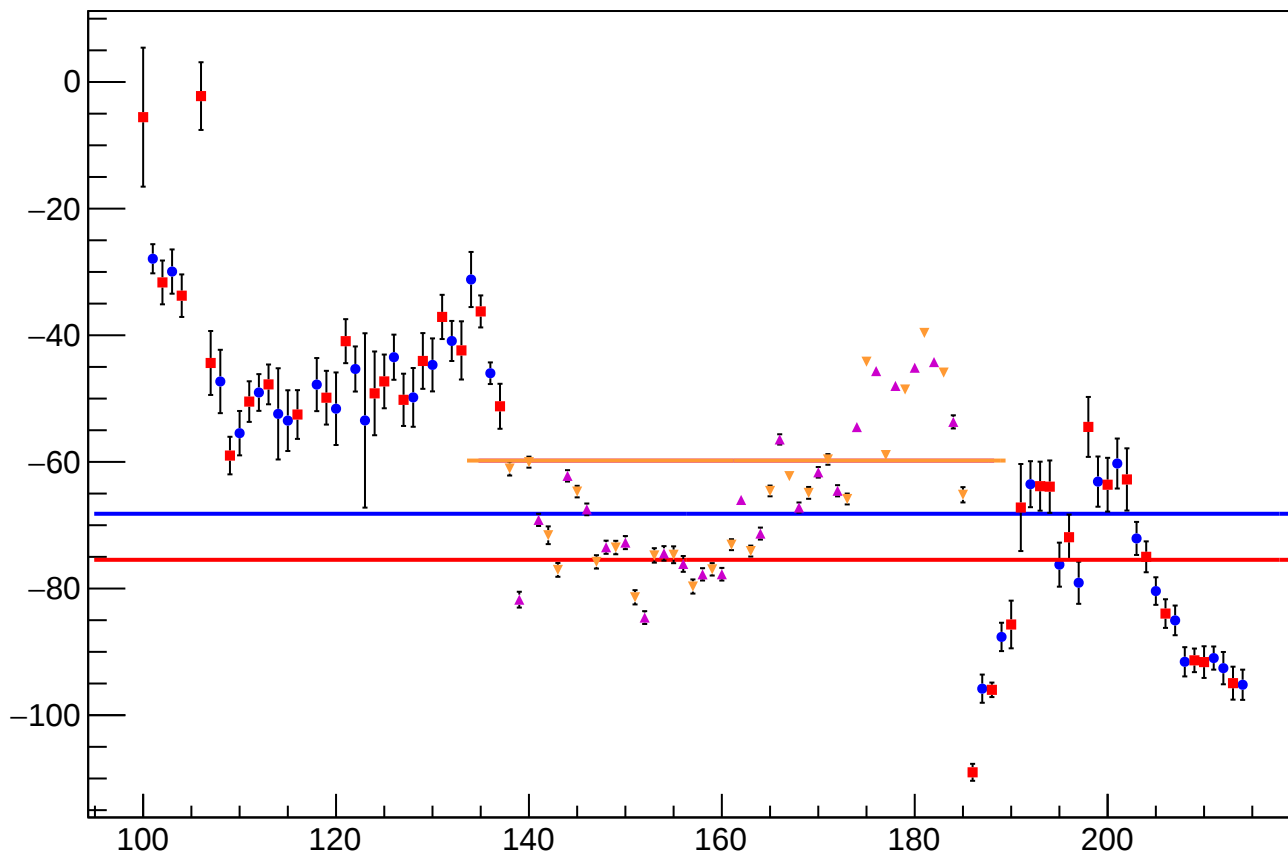
Right: -12.712 ± 0.305 χ^2/NDF : 1945.3/64

In: 0.022 ± 0.133 χ^2/NDF : 3932.8/53

Out: -0.149 ± 0.130 χ^2/NDF : 3755.6/58

All: -0.066 ± 0.093 χ^2/NDF : 7689.2/112

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -68.192 ± 0.530 χ^2/NDF : 1814.6/30

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -75.463 ± 0.497 χ^2/NDF : 2723.6/33

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

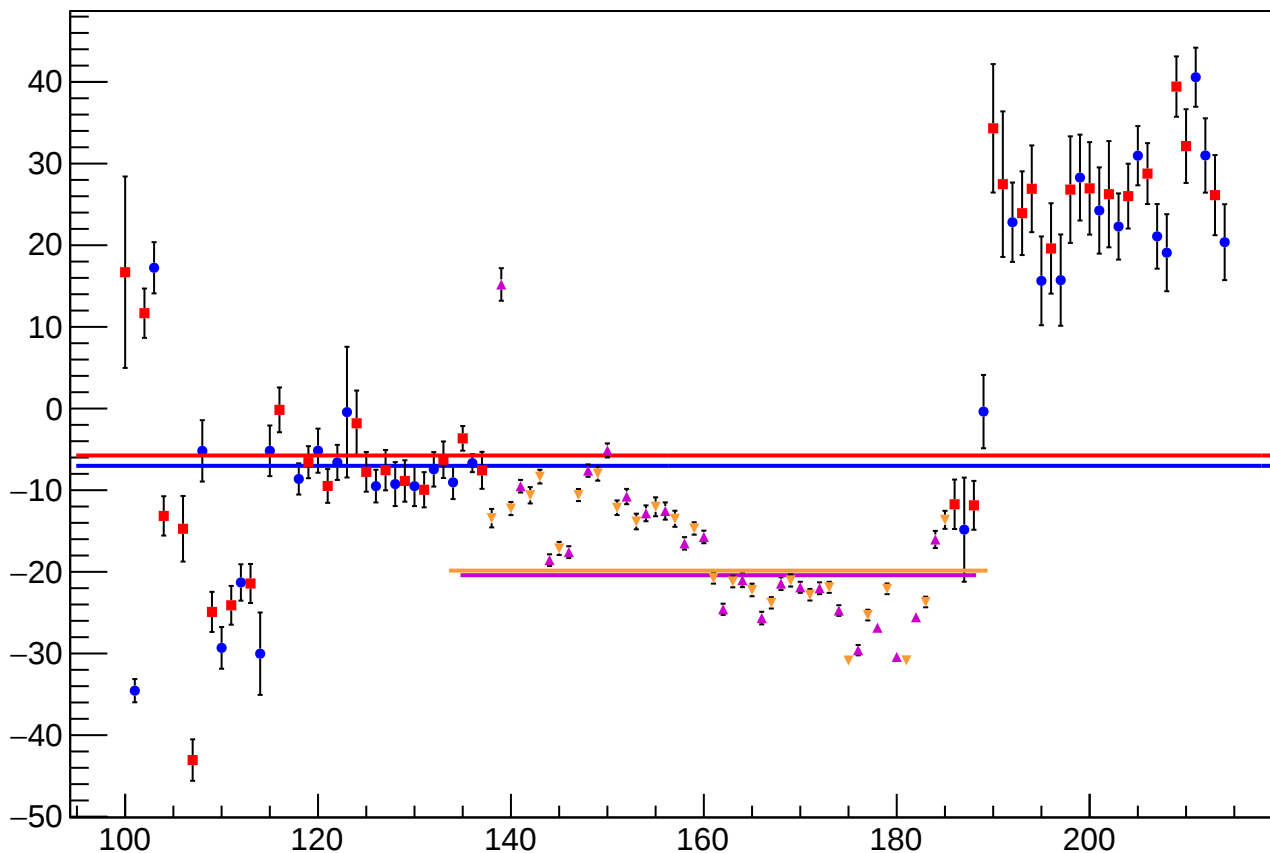
Right: -72.060 ± 0.363 χ^2/NDF : 4638.2/64

In: -60.611 ± 0.165 χ^2/NDF : 7258.2/53

Out: -61.430 ± 0.161 χ^2/NDF : 9450.4/58

All: -61.030 ± 0.115 χ^2/NDF : 16721.2/112

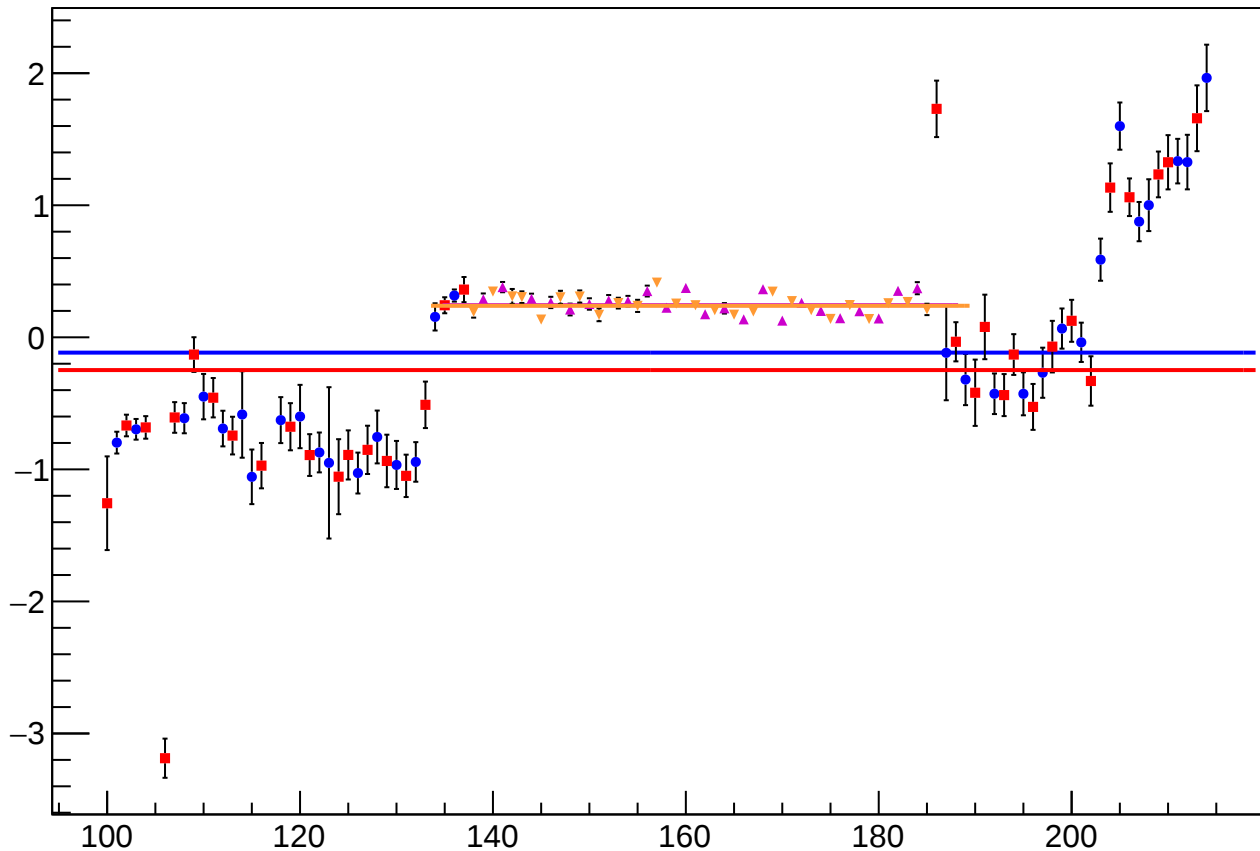
reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -7.016 ± 0.481 $\chi^2/\text{NDF}: 1255.6/30$
 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: -6.408 ± 0.347 $\chi^2/\text{NDF}: 2341.7/64$
 In: -19.127 ± 0.149 $\chi^2/\text{NDF}: 4257.6/53$
 Out: -18.648 ± 0.146 $\chi^2/\text{NDF}: 3738.7/58$
 All: -18.883 ± 0.104 $\chi^2/\text{NDF}: 8001.6/112$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.116 ± 0.024 χ^2/NDF : 809.9/30

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

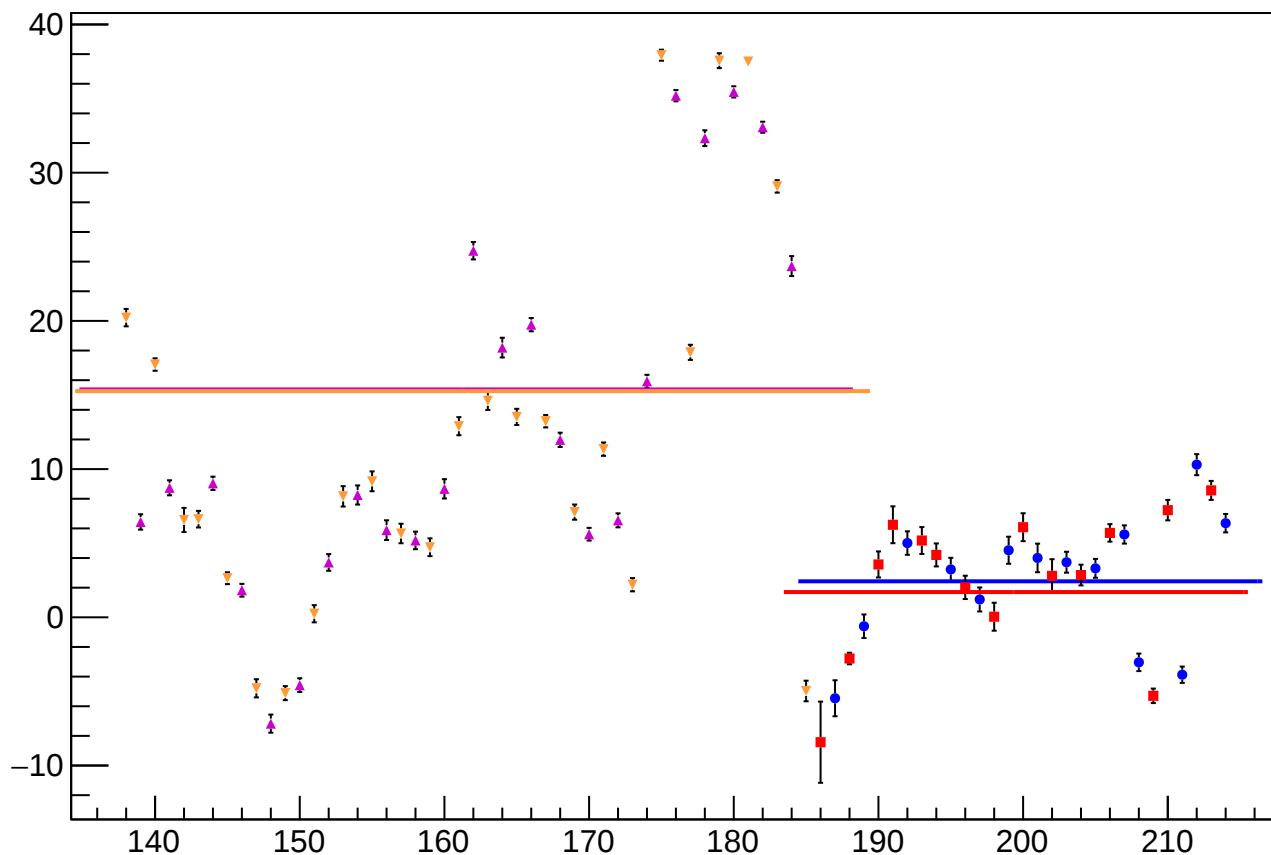
Right: -0.181 ± 0.017 χ^2/NDF : 1951.2/64

In: 0.213 ± 0.007 χ^2/NDF : 1156.5/53

Out: 0.202 ± 0.007 χ^2/NDF : 1587.5/58

All: 0.207 ± 0.005 χ^2/NDF : 2745.5/112

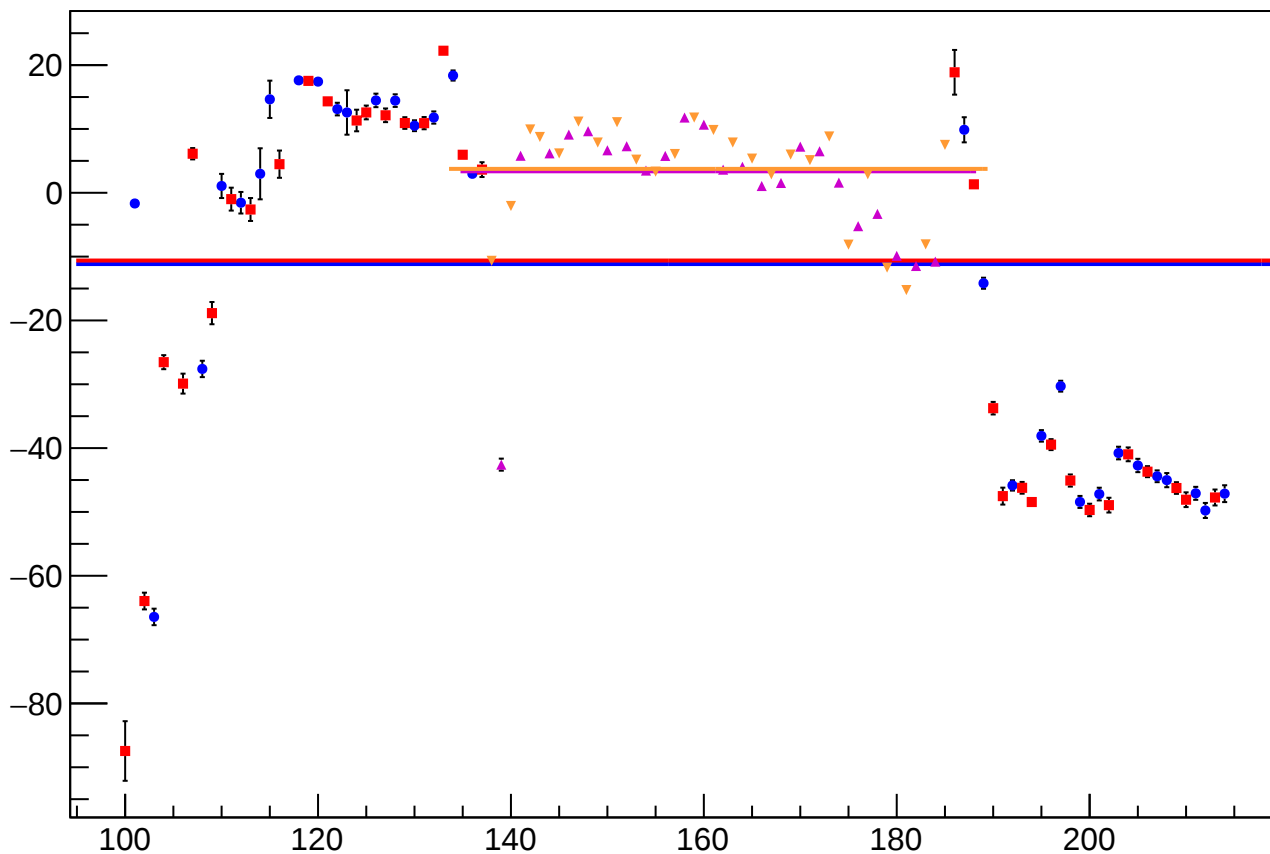
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.429 $\pm$ 0.192 χ^2 /NDF: 490.3/13
 Left Out: 15.263 $\pm$ 0.100 χ^2 /NDF:19175.2/24
 Right Out: 1.705 $\pm$ 0.183 χ^2 /NDF: 647.7/14
 Left In: 15.377 $\pm$ 0.103 χ^2 /NDF:16268.9/22

Left: 15.318 $\pm$ 0.072 χ^2 /NDF: 35444.7/47
 Right: 2.050 $\pm$ 0.132 χ^2 /NDF: 1145.5/28
 In: 12.491 $\pm$ 0.091 χ^2 /NDF:20297.7/36
 Out: 12.121 $\pm$ 0.088 χ^2 /NDF:24040.9/39
 All: 12.301 $\pm$ 0.063 χ^2 /NDF: 44347.1/76

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.166 ± 0.169 $\chi^2/\text{NDF}: 26081.4/30$

Left Out: 3.746 ± 0.079 $\chi^2/\text{NDF}: 9247.4/24$

Right Out: -10.614 ± 0.161 $\chi^2/\text{NDF}: 31202.7/33$

Left In: 3.365 ± 0.081 $\chi^2/\text{NDF}: 8527.0/22$

Left: 3.561 ± 0.057 $\chi^2/\text{NDF}: 17785.7/47$

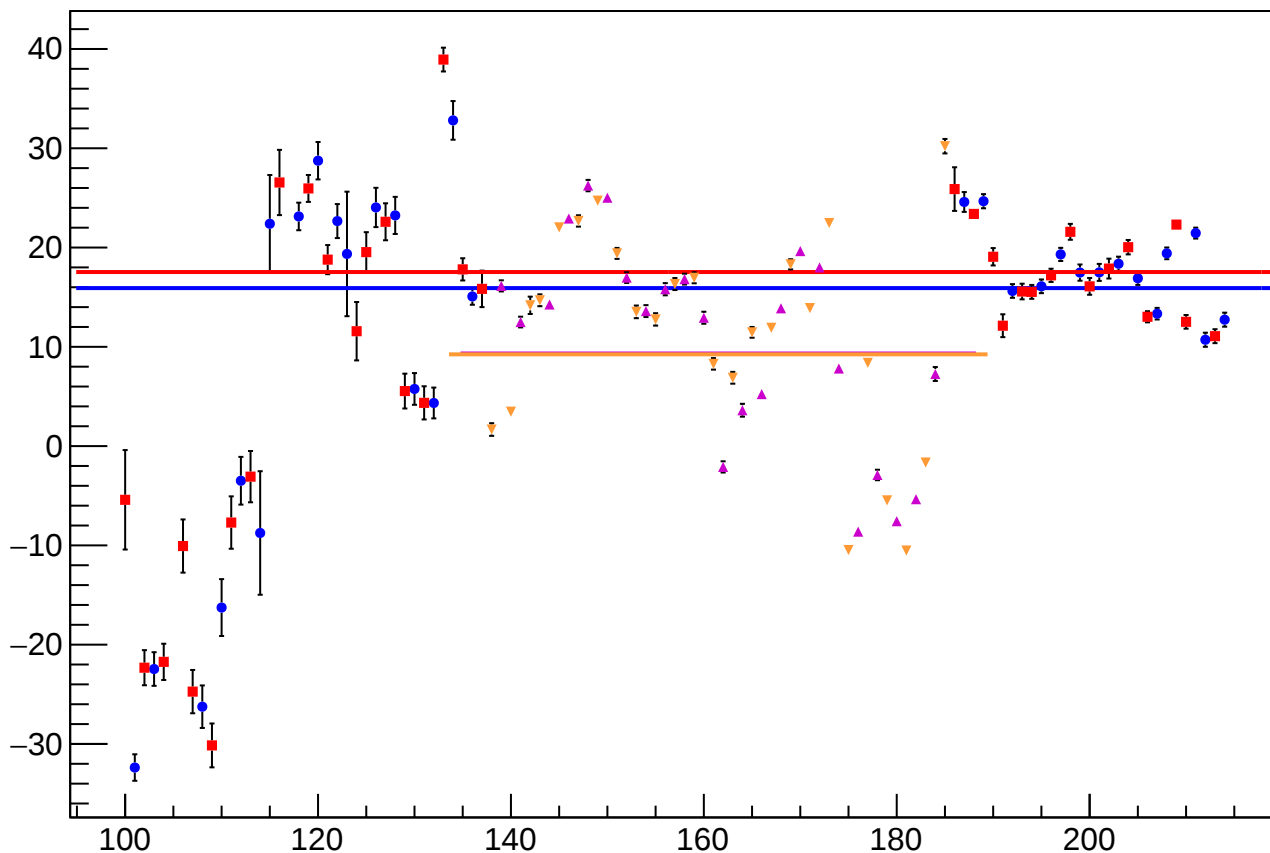
Right: -10.877 ± 0.117 $\chi^2/\text{NDF}: 57289.7/64$

In: 0.640 ± 0.073 $\chi^2/\text{NDF}: 40609.1/53$

Out: 0.979 ± 0.071 $\chi^2/\text{NDF}: 46856.0/58$

All: 0.815 ± 0.051 $\chi^2/\text{NDF}: 87476.1/112$

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.916 ± 0.168 χ^2/NDF : 3215.2/30

Left Out: 9.242 ± 0.101 χ^2/NDF : 13633.2/24

Right Out: 17.533 ± 0.156 χ^2/NDF : 3316.0/33

Left In: 9.328 ± 0.103 χ^2/NDF : 11968.5/22

Left: 9.284 ± 0.072 χ^2/NDF : 25602.0/47

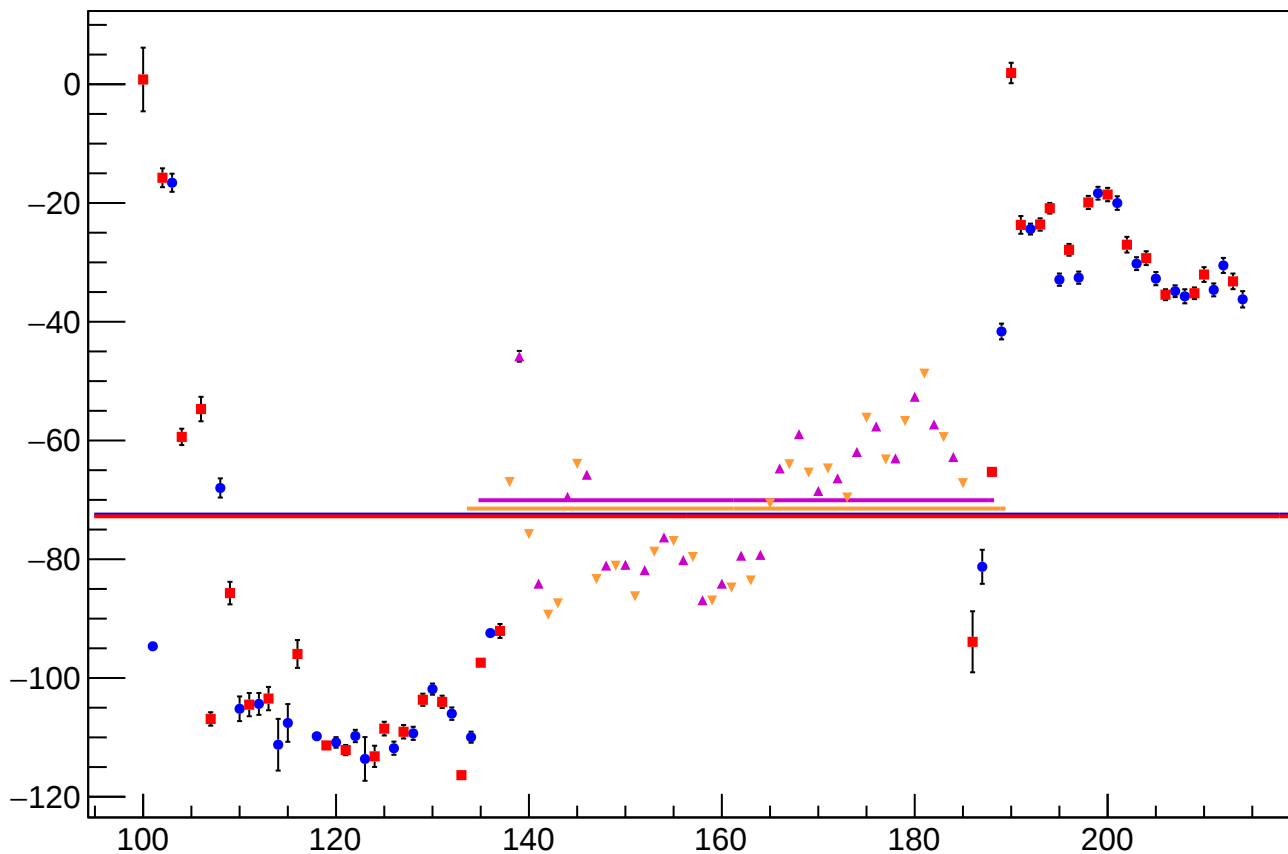
Right: 16.787 ± 0.114 χ^2/NDF : 6580.9/64

In: 11.110 ± 0.088 χ^2/NDF : 16299.9/53

Out: 11.692 ± 0.085 χ^2/NDF : 18944.4/58

All: 11.411 ± 0.061 χ^2/NDF : 35267.1/112

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -72.480 ± 0.194 $\chi^2/\text{NDF}: 35903.8/30$

Left Out: -71.465 ± 0.089 $\chi^2/\text{NDF}: 16409.7/24$

Right Out: -72.764 ± 0.188 $\chi^2/\text{NDF}: 43434.1/33$

Left In: -70.061 ± 0.092 $\chi^2/\text{NDF}: 13058.5/22$

Left: -70.782 ± 0.064 $\chi^2/\text{NDF}: 29588.5/47$

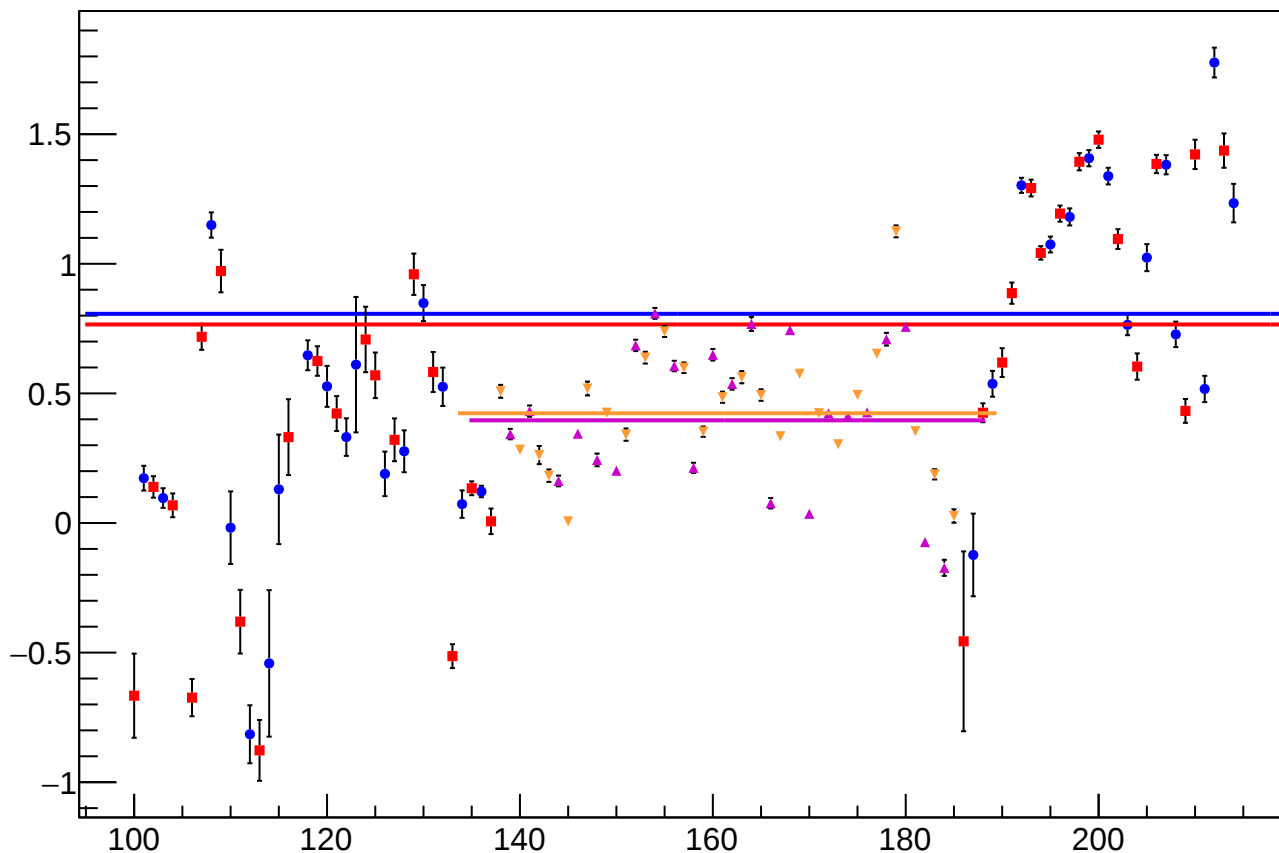
Right: -72.626 ± 0.135 $\chi^2/\text{NDF}: 79339.0/64$

In: -70.503 ± 0.083 $\chi^2/\text{NDF}: 49089.6/53$

Out: -71.704 ± 0.081 $\chi^2/\text{NDF}: 59882.6/58$

All: -71.120 ± 0.058 $\chi^2/\text{NDF}: 109079.8/112$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.807 $\pm$ 0.008 χ^2 /NDF: 3990.7/30

Left Out: 0.424 $\pm$ 0.004 χ^2 /NDF:2885.0/24

Right Out: 0.766 $\pm$ 0.008 χ^2 /NDF: 5113.1/33

Left In: 0.396 $\pm$ 0.004 χ^2 /NDF:4051.5/22

Left: 0.410 $\pm$ 0.003 χ^2 /NDF: 6958.5/47

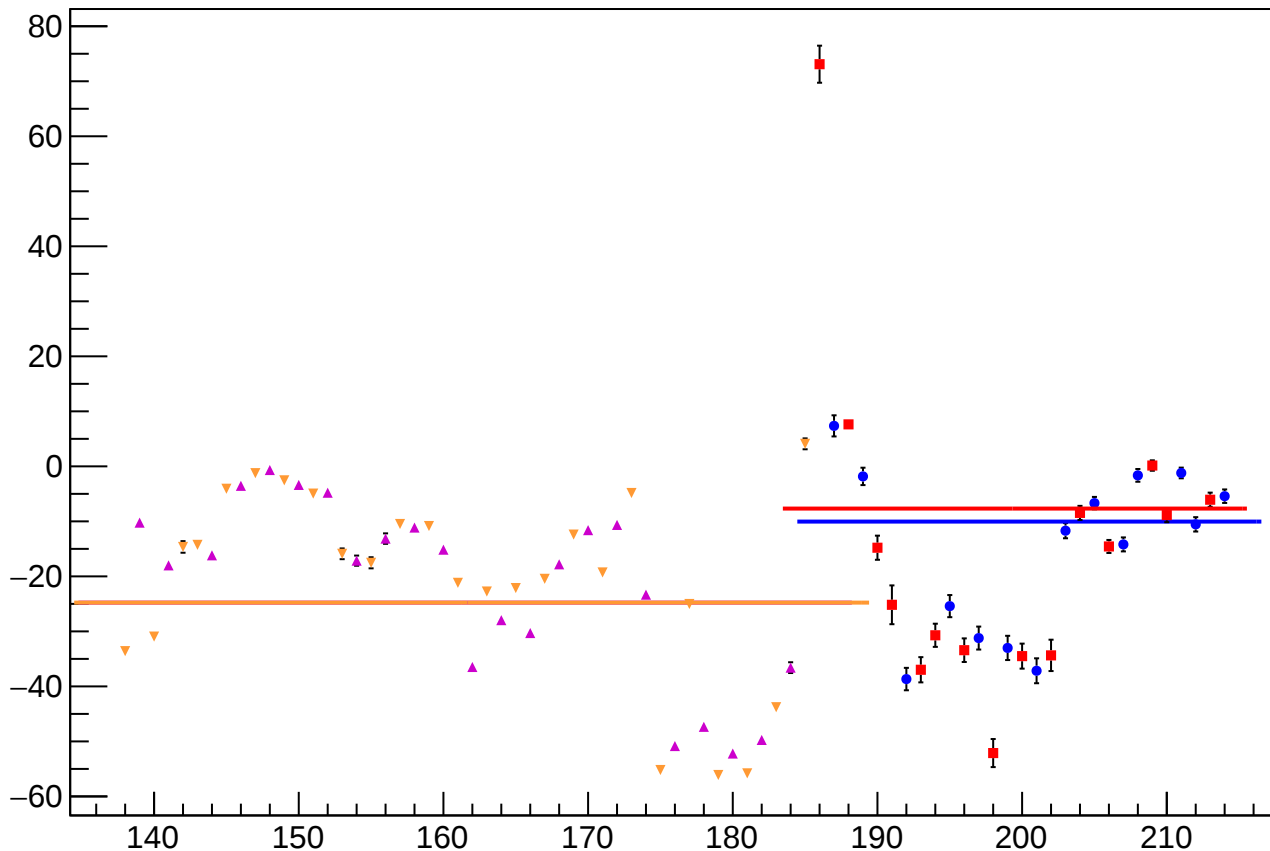
Right: 0.786 $\pm$ 0.006 χ^2 /NDF: 9116.2/64

In: 0.477 $\pm$ 0.004 χ^2 /NDF:9951.3/53

Out: 0.494 $\pm$ 0.004 χ^2 /NDF:9435.4/58

All: 0.485 $\pm$ 0.003 χ^2 /NDF: 19397.5/112

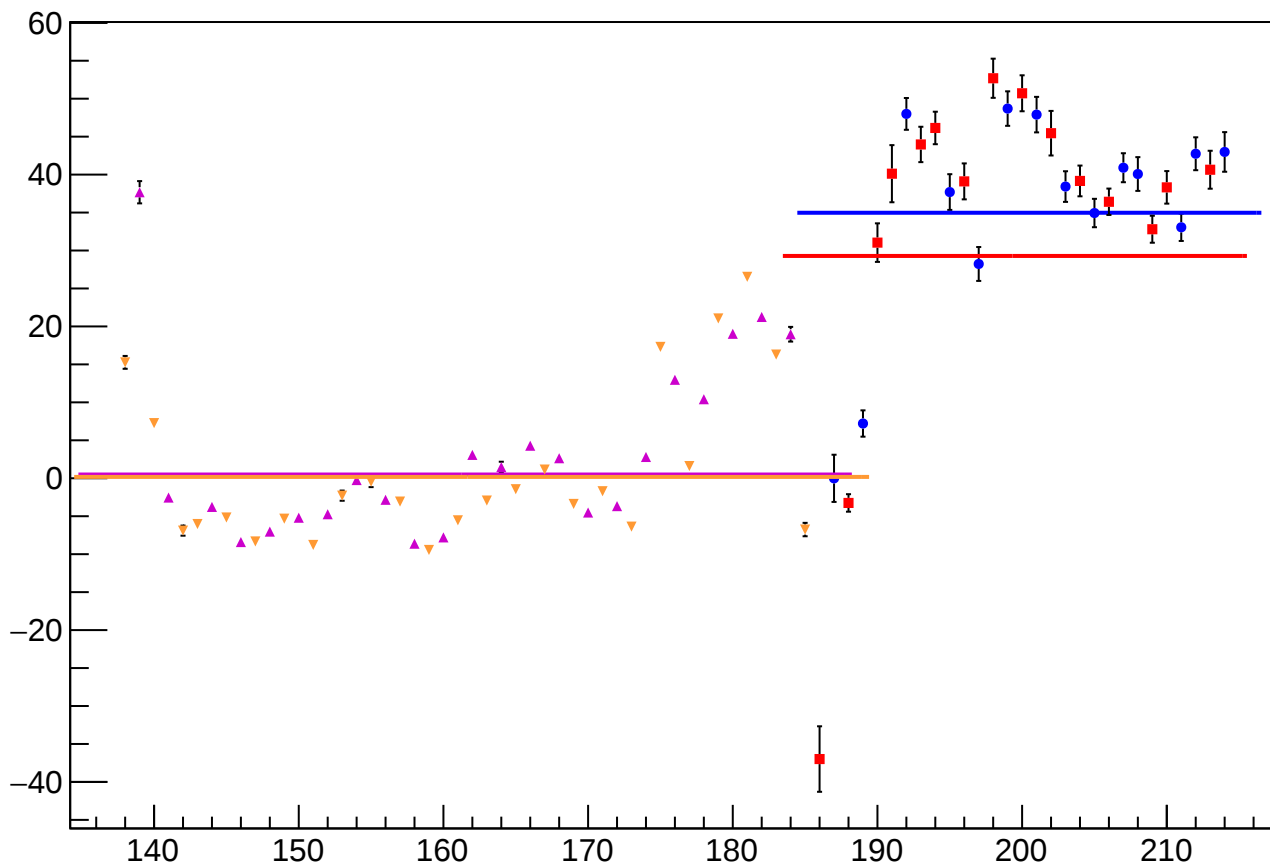
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.040 ± 0.384 $\chi^2/\text{NDF}: 889.9/13$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -7.675 ± 0.387 $\chi^2/\text{NDF}: 2037.5/14$
 Left In: -24.775 ± 0.143 $\chi^2/\text{NDF}: 14807.4/22$

Left: -24.772 ± 0.100 $\chi^2/\text{NDF}: 33126.2/47$
 Right: -8.866 ± 0.273 $\chi^2/\text{NDF}: 2946.2/28$
 In: -22.988 ± 0.134 $\chi^2/\text{NDF}: 16989.3/36$
 Out: -22.804 ± 0.131 $\chi^2/\text{NDF}: 22084.7/39$
 All: -22.894 ± 0.094 $\chi^2/\text{NDF}: 39074.9/76$

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 34.974 ± 0.568 $\chi^2/\text{NDF}: 540.8/13$

Left Out: 0.177 ± 0.109 $\chi^2/\text{NDF}: 8295.6/24$

Right Out: 29.286 ± 0.548 $\chi^2/\text{NDF}: 1438.0/14$

Left In: 0.493 ± 0.112 $\chi^2/\text{NDF}: 6555.4/22$

Left: 0.330 ± 0.078 $\chi^2/\text{NDF}: 14855.0/47$

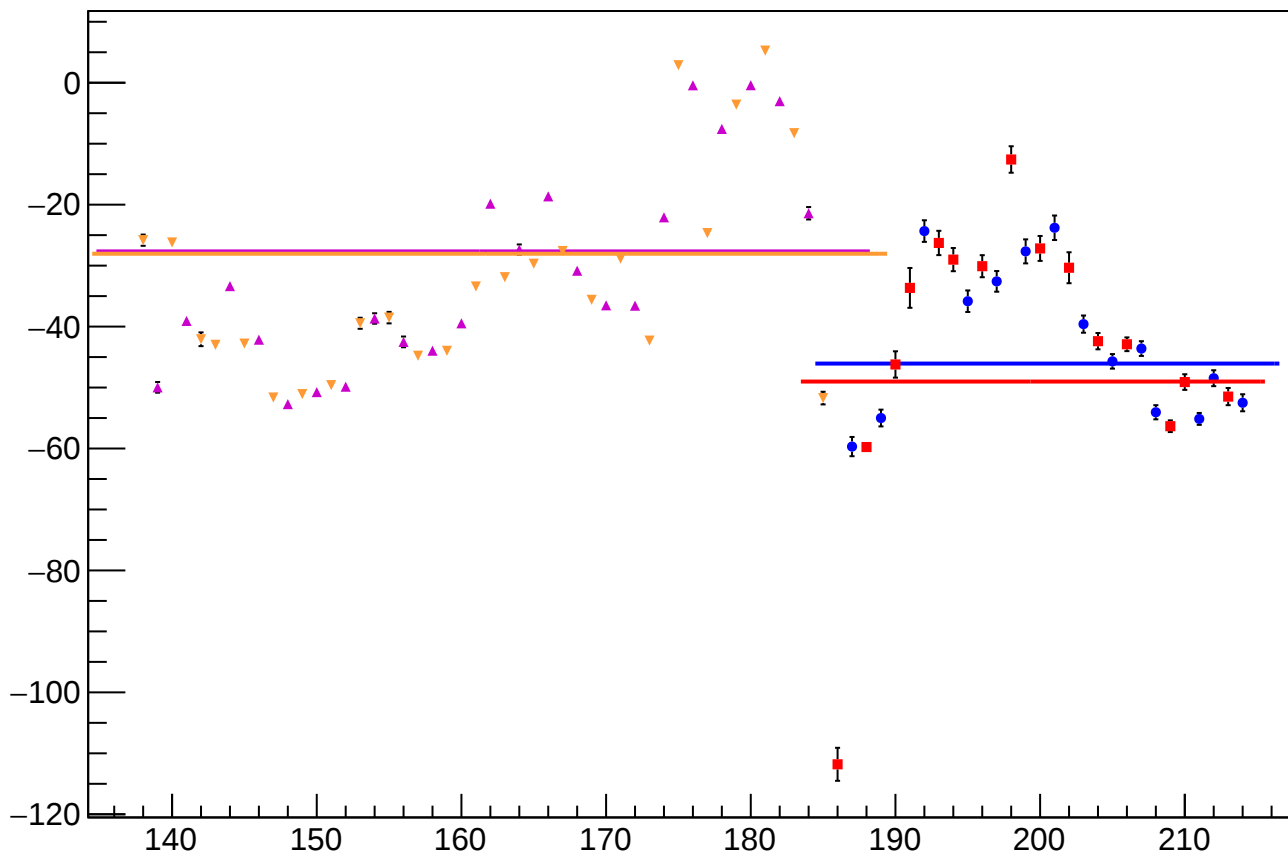
Right: 32.028 ± 0.395 $\chi^2/\text{NDF}: 2030.7/28$

In: 1.785 ± 0.110 $\chi^2/\text{NDF}: 10640.9/36$

Out: 1.275 ± 0.106 $\chi^2/\text{NDF}: 12445.9/39$

All: 1.522 ± 0.076 $\chi^2/\text{NDF}: 23097.9/76$

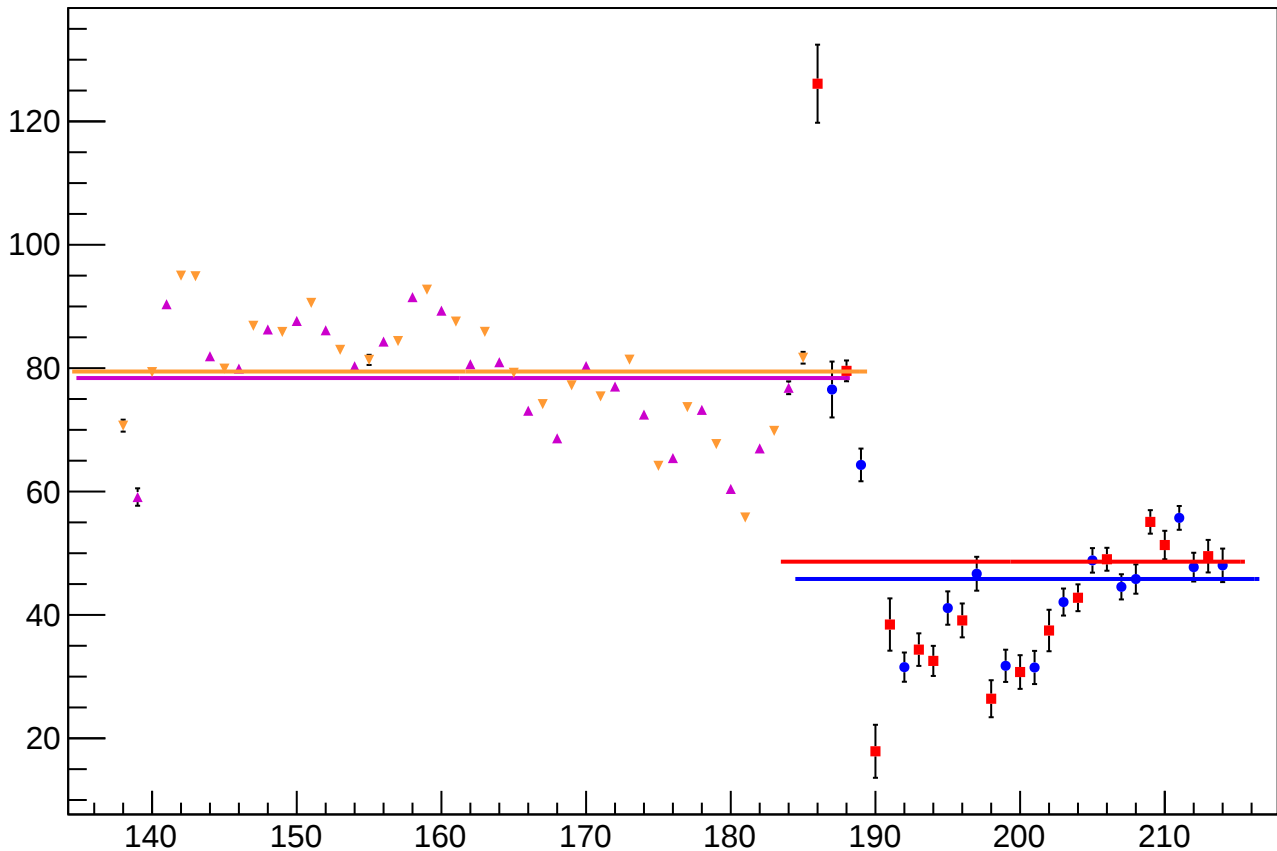
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.066 ± 0.373 χ^2/NDF : 757.5/13
 Left Out: -28.050 ± 0.140 χ^2/NDF : 17144.5/24
 Right Out: -49.016 ± 0.358 χ^2/NDF : 1752.2/14
 Left In: -27.666 ± 0.142 χ^2/NDF : 15003.2/22

Left: -27.862 ± 0.100 χ^2/NDF : 32151.3/47
 Right: -47.601 ± 0.258 χ^2/NDF : 2542.3/28
 In: -30.012 ± 0.133 χ^2/NDF : 17887.4/36
 Out: -30.831 ± 0.130 χ^2/NDF : 21876.4/39
 All: -30.430 ± 0.093 χ^2/NDF : 39783.1/76

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.827 $\pm$ 0.647 χ^2 /NDF: 225.0/13

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

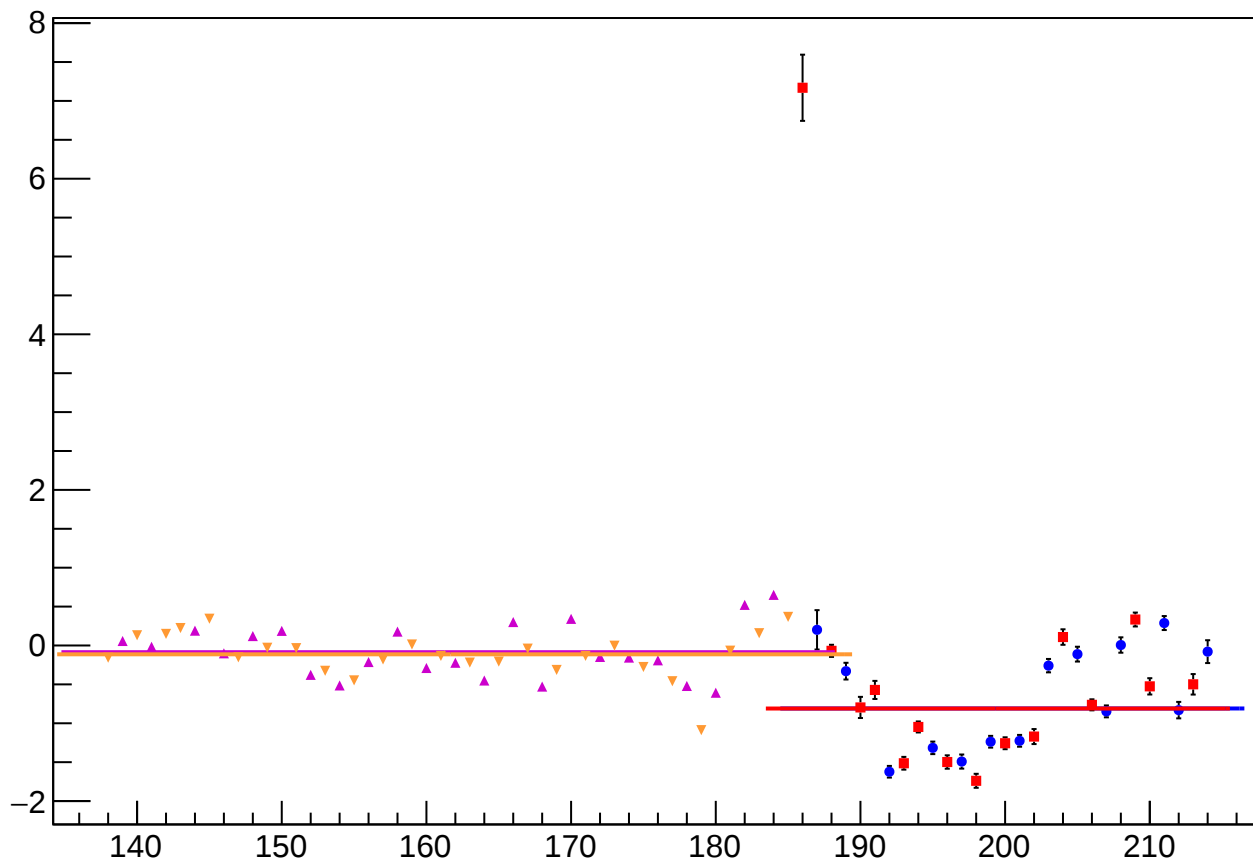
Right: 47.224 $\pm$ 0.458 χ^2 /NDF: 991.3/28

In: 77.192 $\pm$ 0.124 χ^2 /NDF: 7374.3/36

Out: 78.384 $\pm$ 0.121 χ^2 /NDF: 9010.6/39

All: 77.804 $\pm$ 0.087 χ^2 /NDF: 16432.2/76

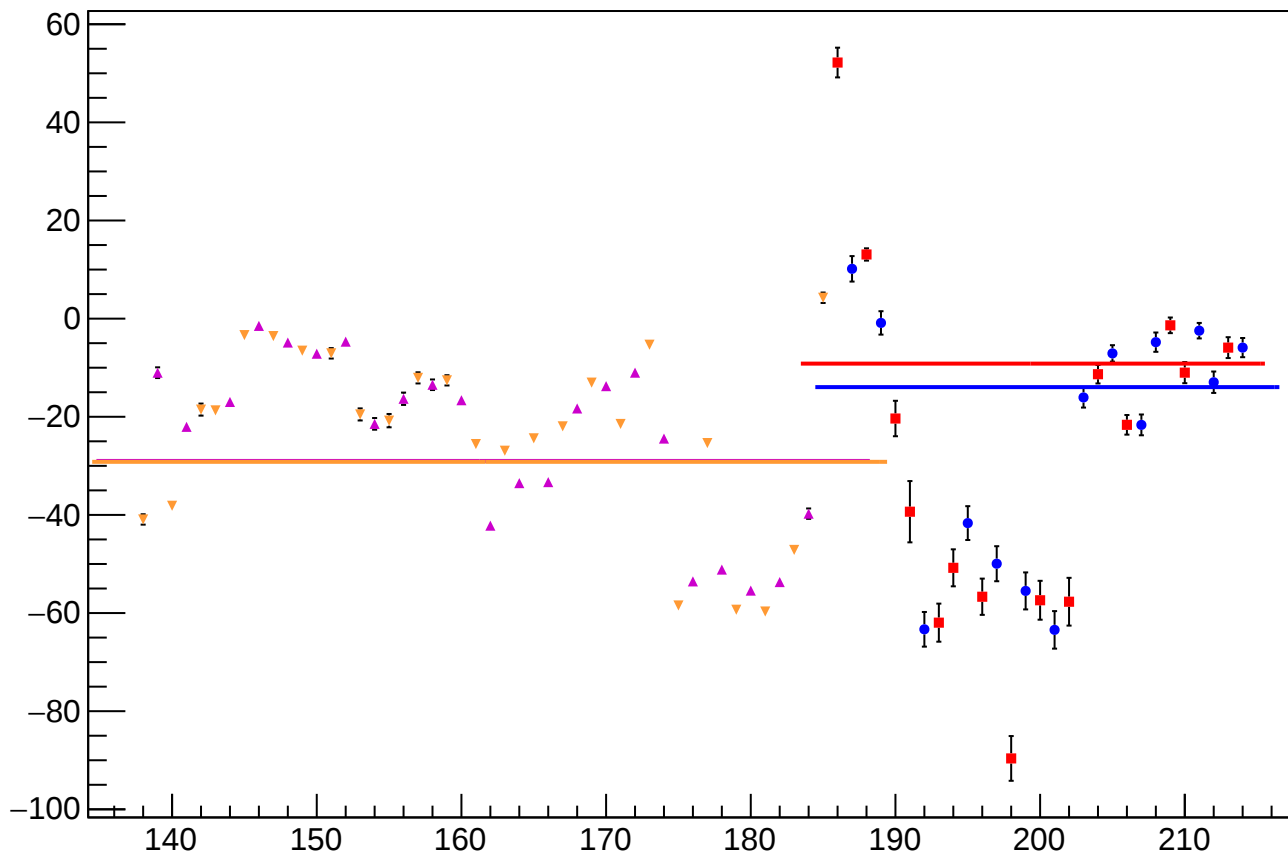
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.810 ± 0.024 χ^2/NDF : 648.6/13
 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: -0.810 ± 0.017 χ^2/NDF : 1661.1/28
 In: -0.125 ± 0.006 χ^2/NDF : 4614.3/36
 Out: -0.151 ± 0.006 χ^2/NDF : 4123.1/39
 All: -0.138 ± 0.004 χ^2/NDF : 8748.1/76

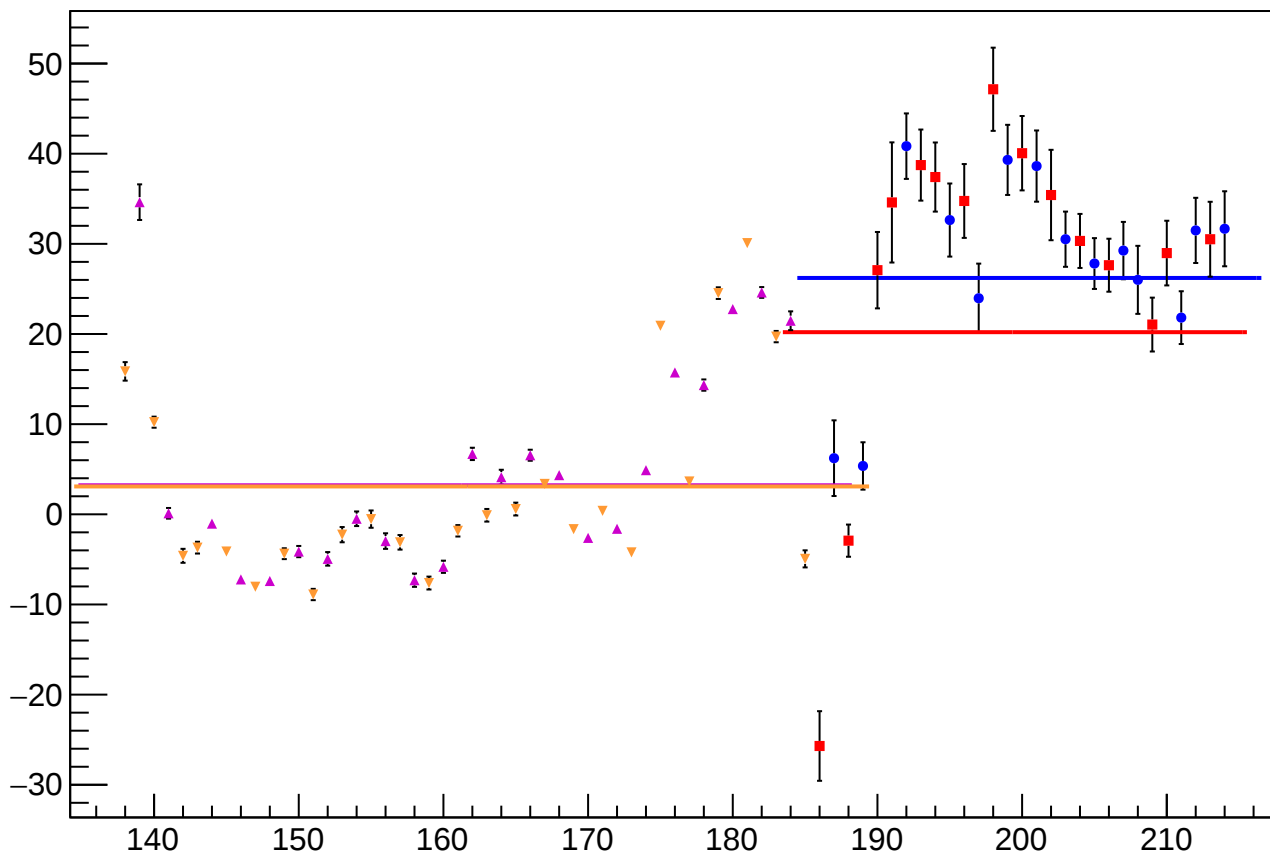
reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.955 ± 0.614 $\chi^2/\text{NDF}: 889.3/13$
 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: -11.594 ± 0.437 $\chi^2/\text{NDF}: 2776.6/28$
 In: -28.049 ± 0.155 $\chi^2/\text{NDF}: 14868.2/36$
 Out: -27.988 ± 0.152 $\chi^2/\text{NDF}: 19740.3/39$
 All: -28.018 ± 0.108 $\chi^2/\text{NDF}: 34608.5/76$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 26.217 $\pm$ 0.917 χ^2 /NDF: 135.3/13

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

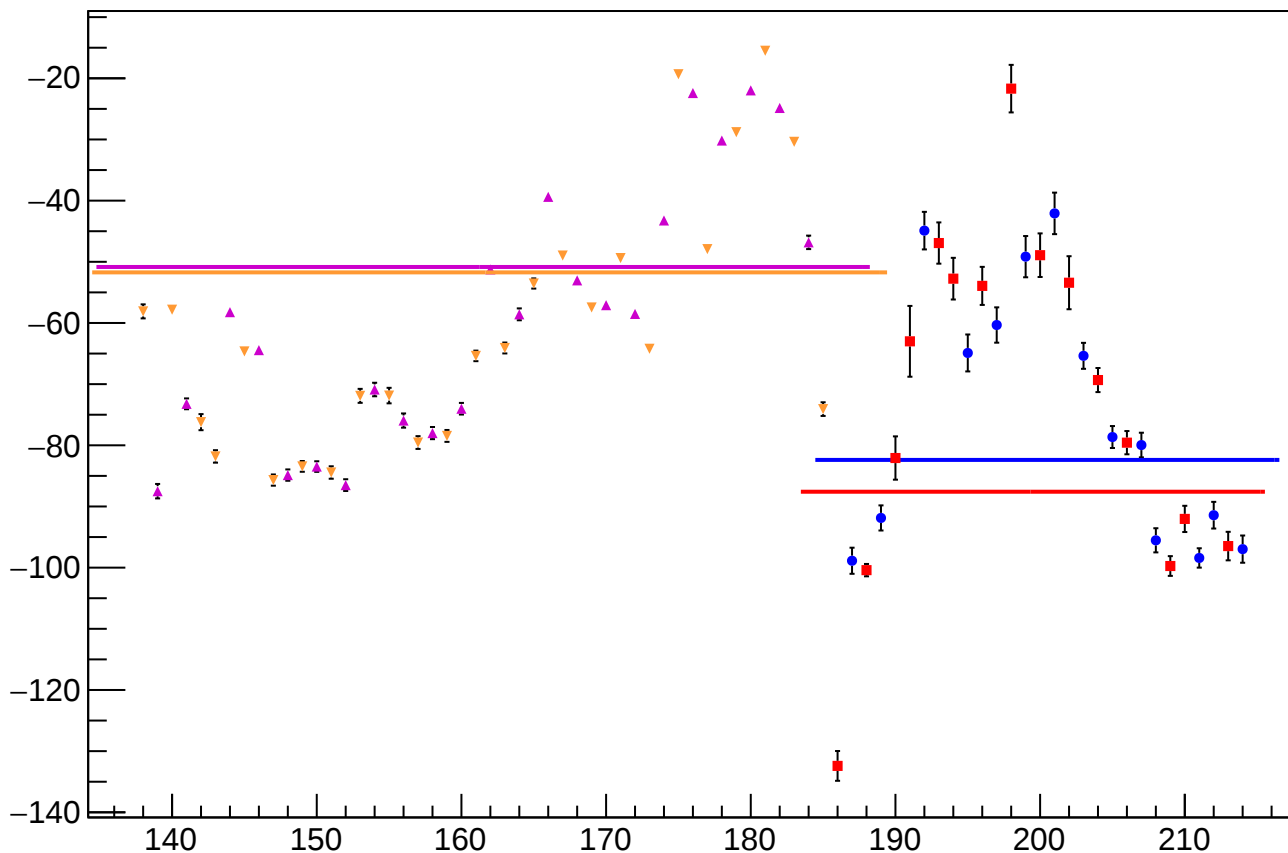
Right: 23.109 $\pm$ 0.637 χ^2 /NDF: 625.4/28

In: 3.653 $\pm$ 0.126 χ^2 /NDF: 6989.8/36

Out: 3.421 $\pm$ 0.123 χ^2 /NDF: 8917.1/39

All: 3.535 $\pm$ 0.088 χ^2 /NDF: 15908.7/76

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -82.388±/0.596 χ^2/NDF : 837.0/13

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

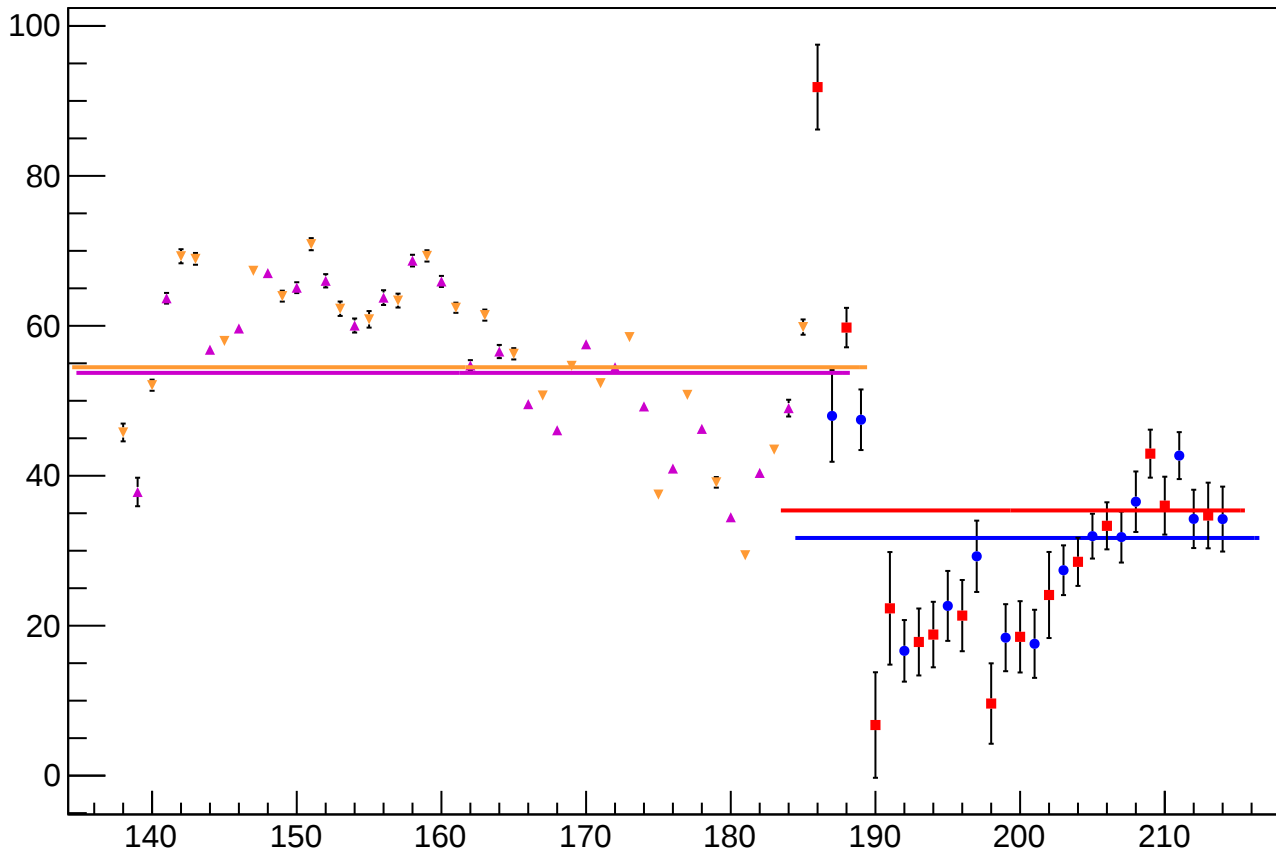
Right: -85.094±/0.413 χ^2/NDF : 2410.2/28

In: -52.966±/0.155 χ^2/NDF :20720.3/36

Out: -54.265±/0.152 χ^2/NDF :24718.9/39

All: -53.626±/0.108 χ^2/NDF : 45475.0/76

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.703 $\pm$ 1.050 χ^2 /NDF: 74.5/13

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

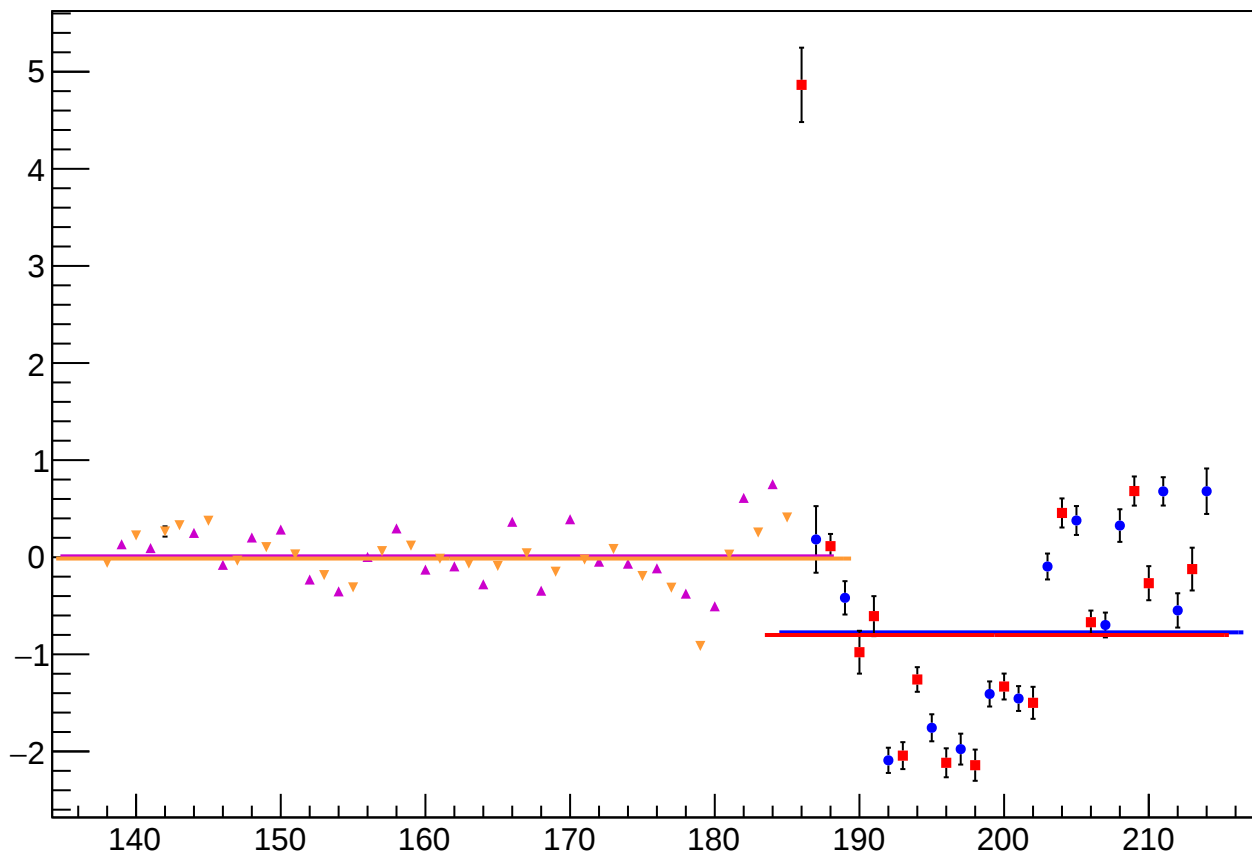
Right: 33.514 $\pm$ 0.747 χ^2 /NDF: 374.2/28

In: 53.322 $\pm$ 0.142 χ^2 /NDF: 5092.4/36

Out: 54.149 $\pm$ 0.139 χ^2 /NDF: 6878.0/39

All: 53.744 $\pm$ 0.099 χ^2 /NDF: 11987.7/76

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.774 ± 0.041 χ^2/NDF : 542.4/13

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

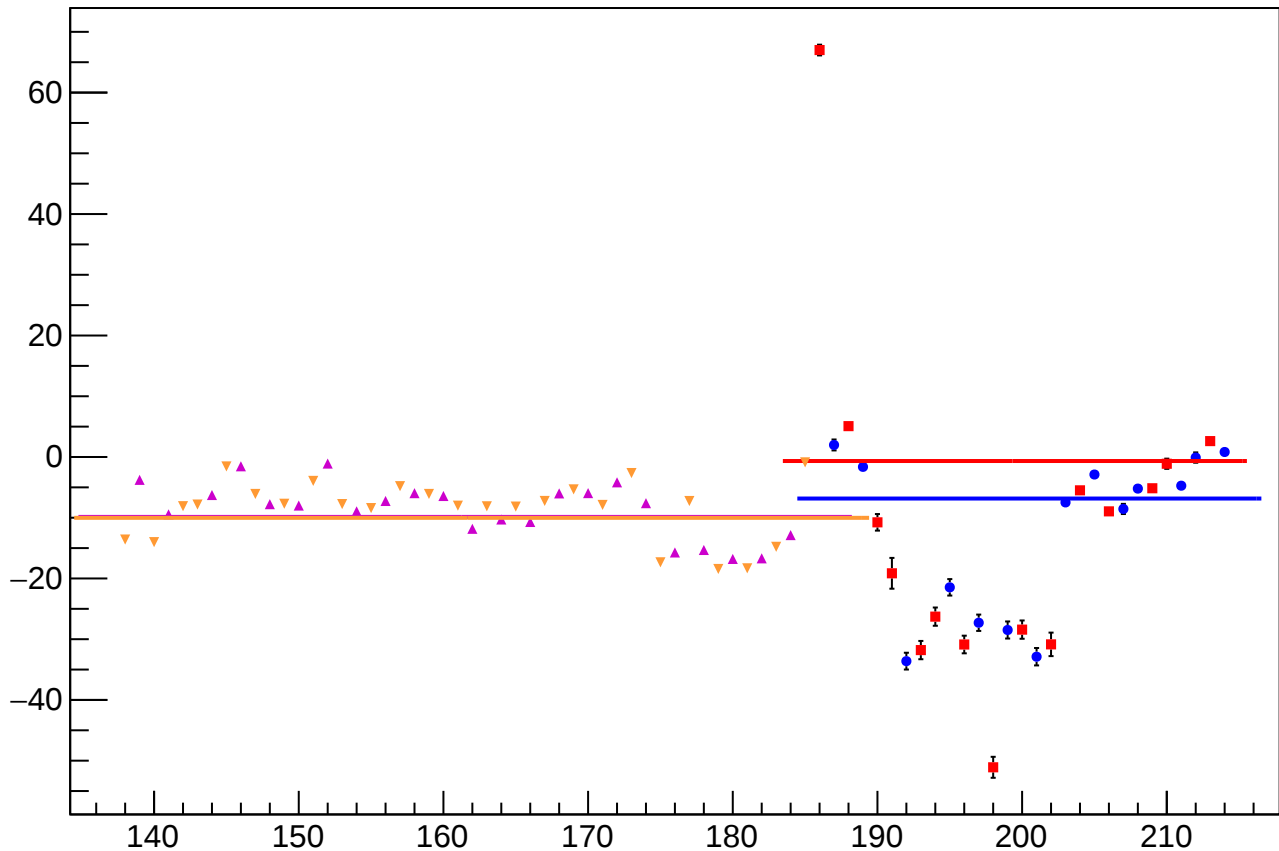
Right: -0.787 ± 0.029 χ^2/NDF : 1278.2/28

In: -0.011 ± 0.006 χ^2/NDF : 3126.6/36

Out: -0.033 ± 0.006 χ^2/NDF : 2762.9/39

All: -0.022 ± 0.005 χ^2/NDF : 5895.5/76

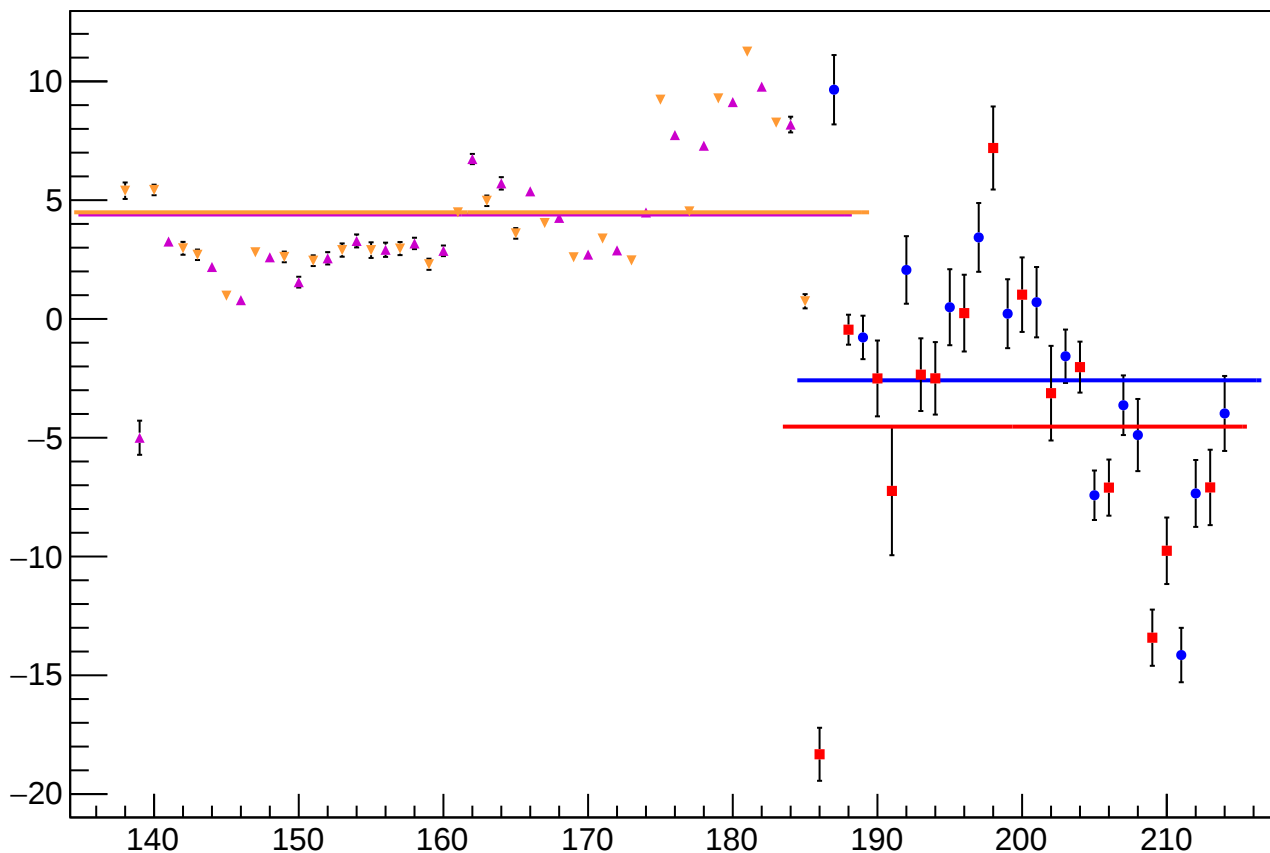
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.840 ± 0.232 $\chi^2/\text{NDF}: 1657.2/13$
 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: -3.748 ± 0.164 $\chi^2/\text{NDF}: 10945.5/28$
 In: -9.724 ± 0.050 $\chi^2/\text{NDF}: 11164.7/36$
 Out: -9.590 ± 0.049 $\chi^2/\text{NDF}: 23041.1/39$
 All: -9.656 ± 0.035 $\chi^2/\text{NDF}: 34209.3/76$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.584 ± 0.345 χ^2/NDF : 254.0/13

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

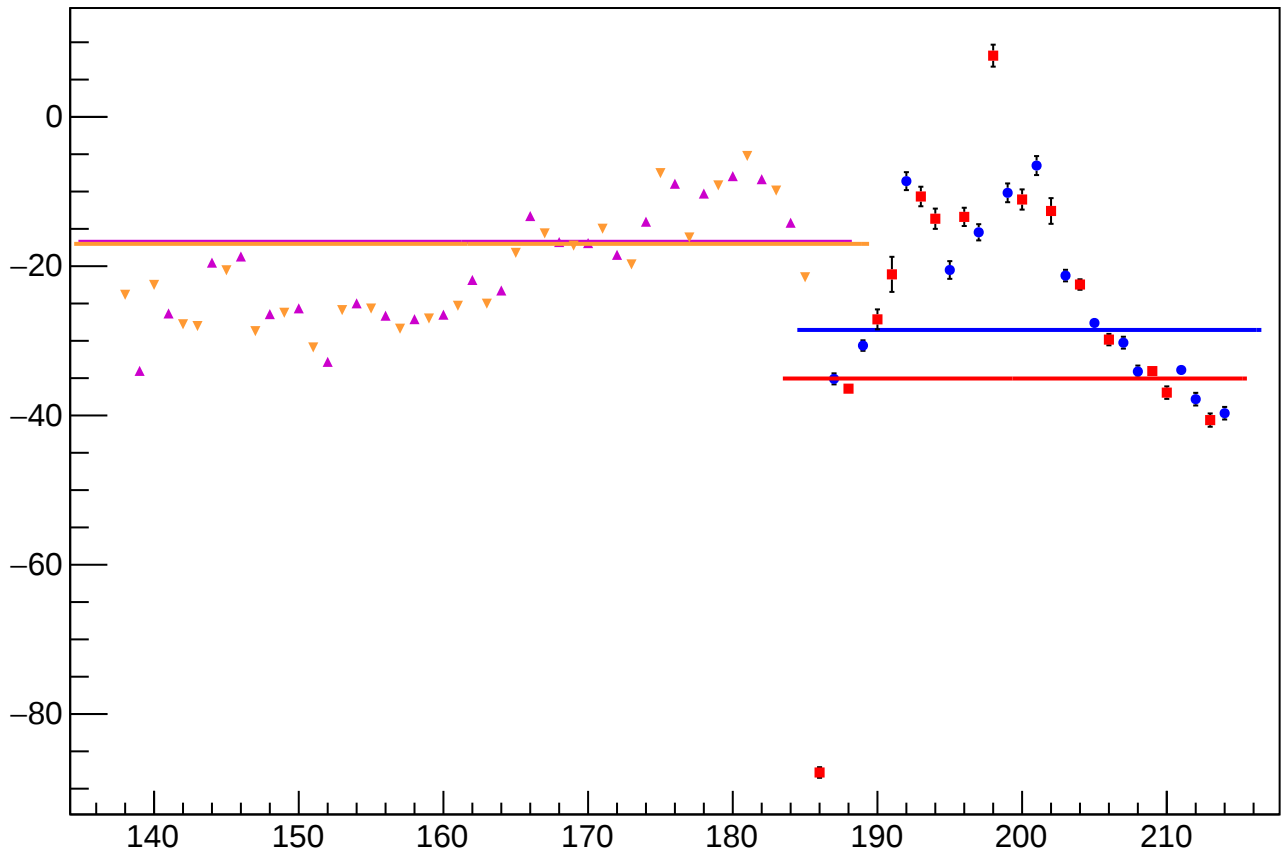
Right: -3.606 ± 0.238 χ^2/NDF : 621.7/28

In: 4.298 ± 0.041 χ^2/NDF : 4888.3/36

Out: 4.352 ± 0.040 χ^2/NDF : 5926.9/39

All: 4.325 ± 0.029 χ^2/NDF : 10816.1/76

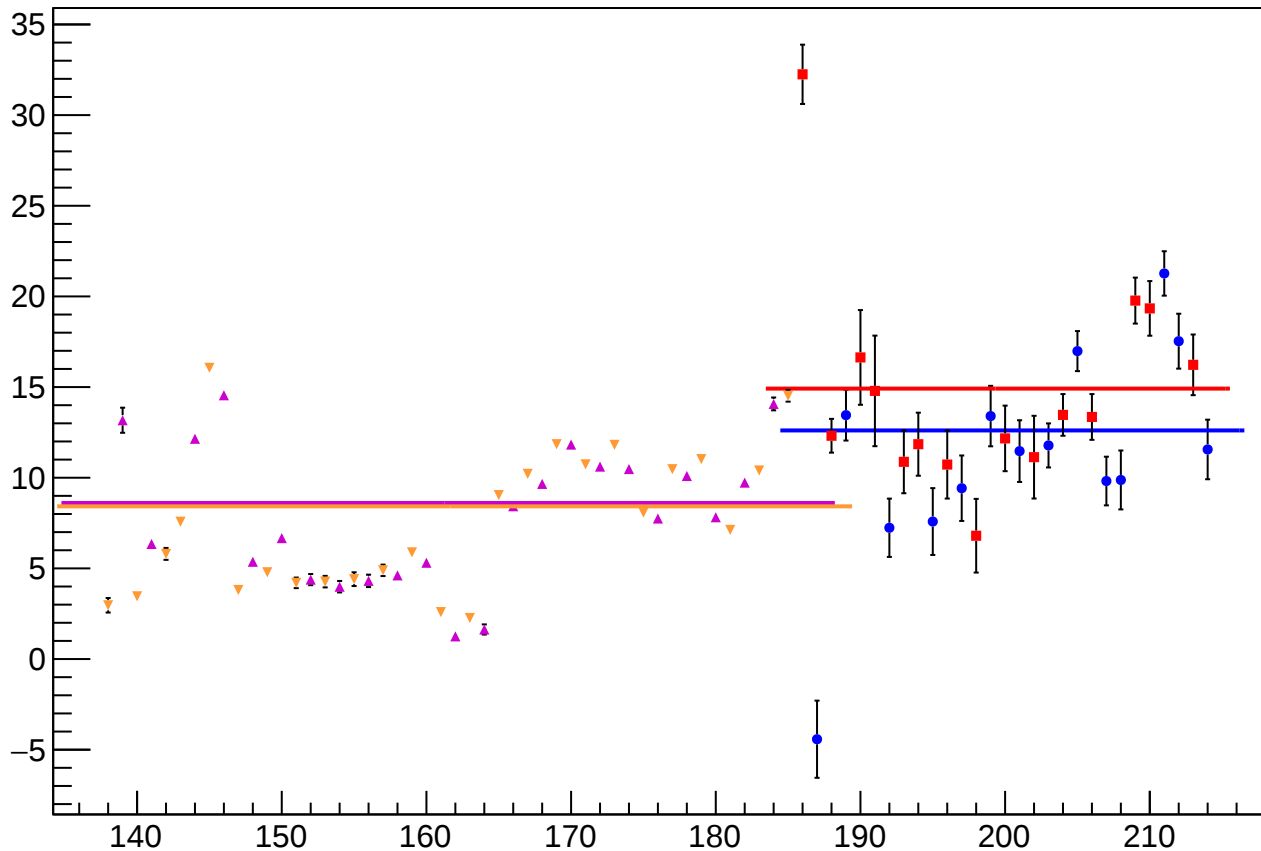
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -28.542 ± 0.225 $\chi^2/\text{NDF}: 1579.4/13$
 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: -31.998 ± 0.154 $\chi^2/\text{NDF}: 10292.2/28$
 In: -17.323 ± 0.050 $\chi^2/\text{NDF}: 22984.6/36$
 Out: -18.007 ± 0.050 $\chi^2/\text{NDF}: 37267.8/39$
 All: -17.669 ± 0.035 $\chi^2/\text{NDF}: 60346.3/76$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.608 $\pm$ 0.398 χ^2 /NDF: 171.0/13

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

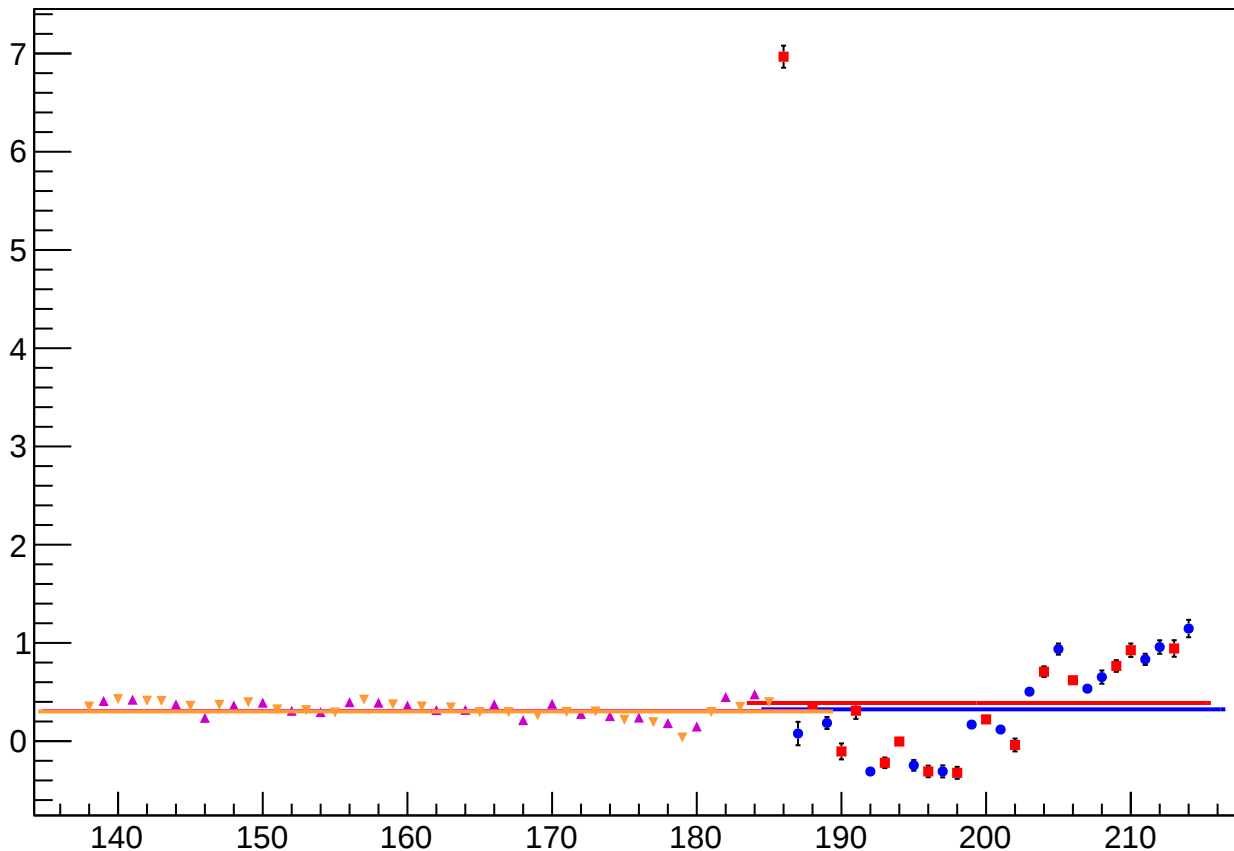
Right: 13.757 $\pm$ 0.282 χ^2 /NDF: 369.9/28

In: 8.660 $\pm$ 0.046 χ^2 /NDF: 5775.3/36

Out: 8.505 $\pm$ 0.045 χ^2 /NDF: 6913.4/39

All: 8.581 $\pm$ 0.032 χ^2 /NDF: 12694.4/76

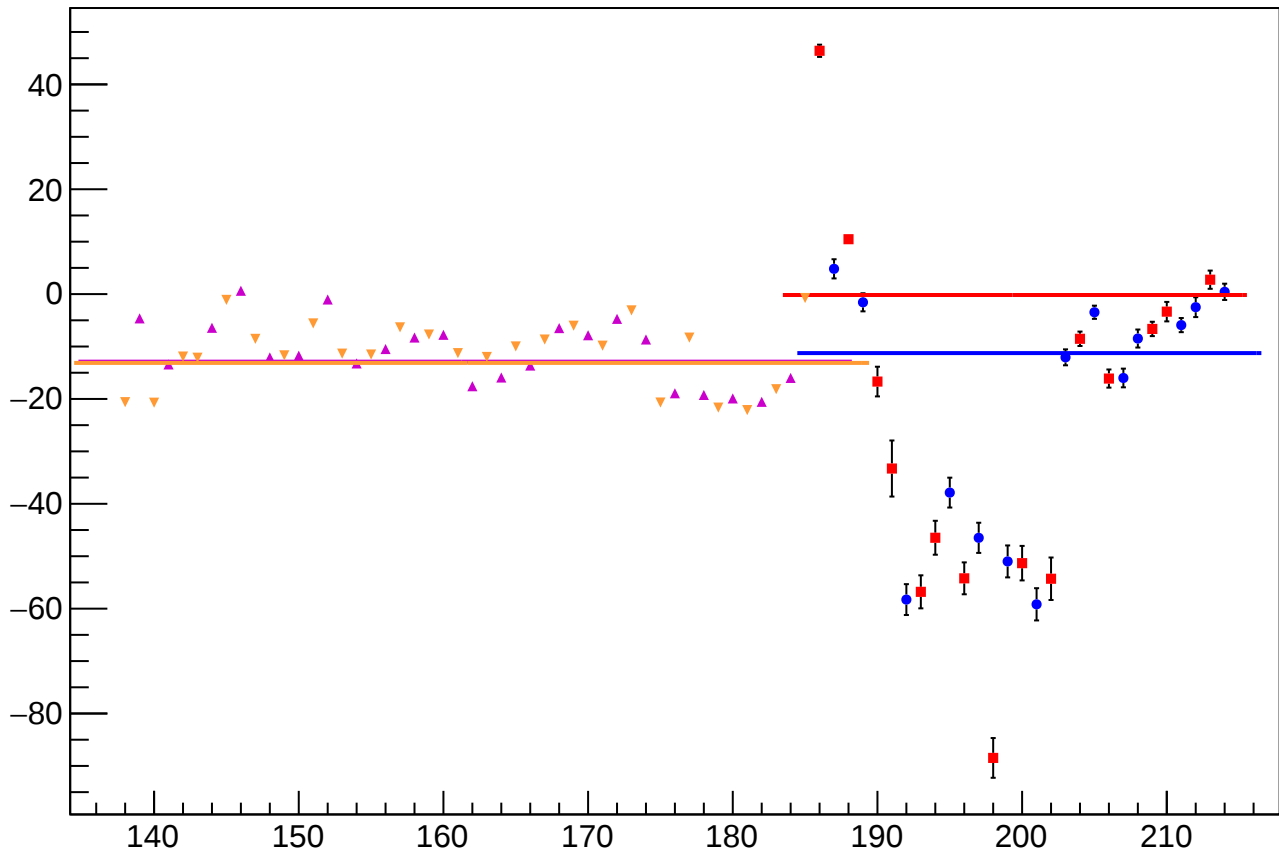
reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.324 $\pm$ 0.016 χ^2 /NDF: 828.7/13
 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: 0.356 $\pm$ 0.011 χ^2 /NDF: 5036.1/28
 In: 0.308 $\pm$ 0.002 χ^2 /NDF:2529.3/36
 Out: 0.304 $\pm$ 0.002 χ^2 /NDF:5820.1/39
 All: 0.306 $\pm$ 0.001 χ^2 /NDF: 8350.8/76

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.252 ± 0.490 $\chi^2/\text{NDF}: 1156.4/13$

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 $\chi^2/\text{NDF}: 10757.0/47$

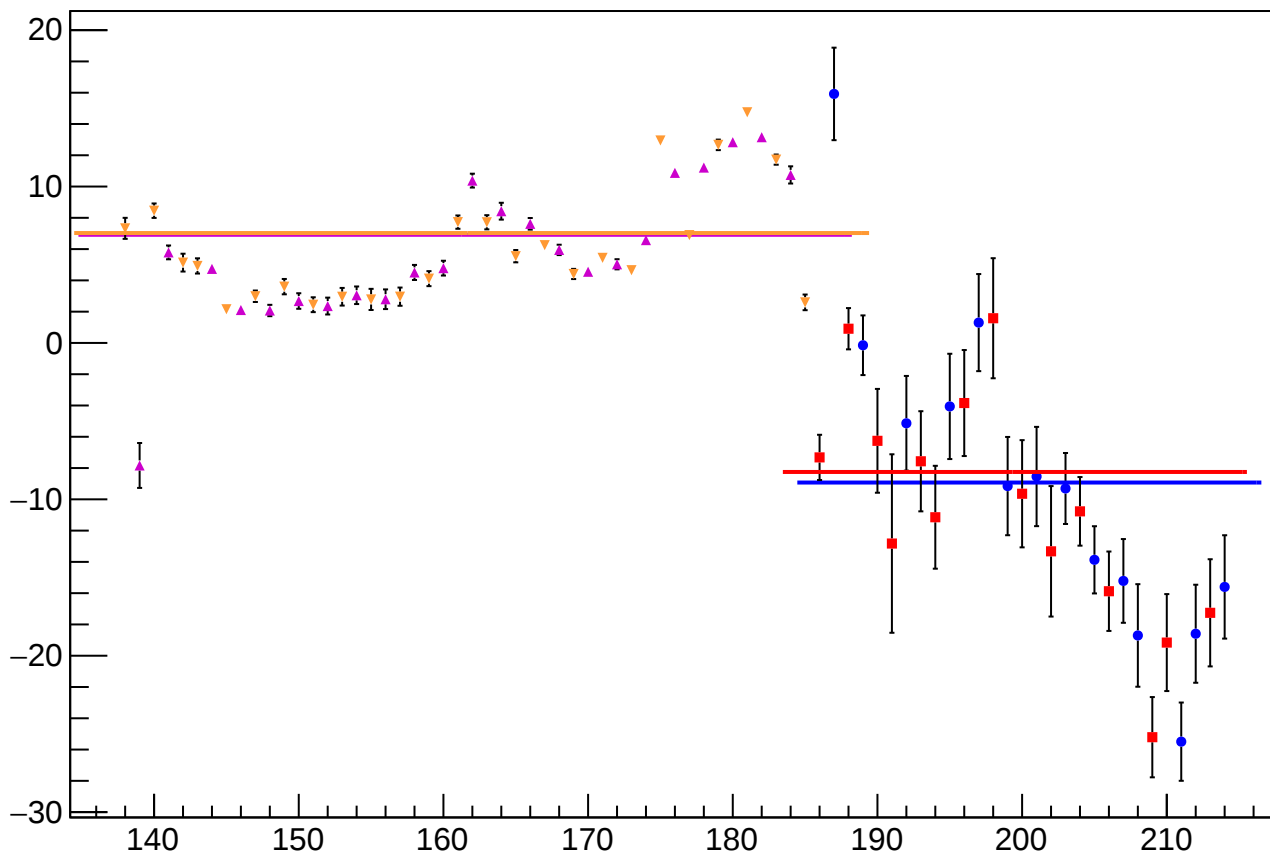
Right: -5.445 ± 0.338 $\chi^2/\text{NDF}: 5176.9/28$

In: -12.826 ± 0.093 $\chi^2/\text{NDF}: 5943.2/36$

Out: -12.624 ± 0.092 $\chi^2/\text{NDF}: 10470.3/39$

All: -12.723 ± 0.065 $\chi^2/\text{NDF}: 16416.0/76$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.926 ± 0.728 χ^2/NDF : 183.5/13

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

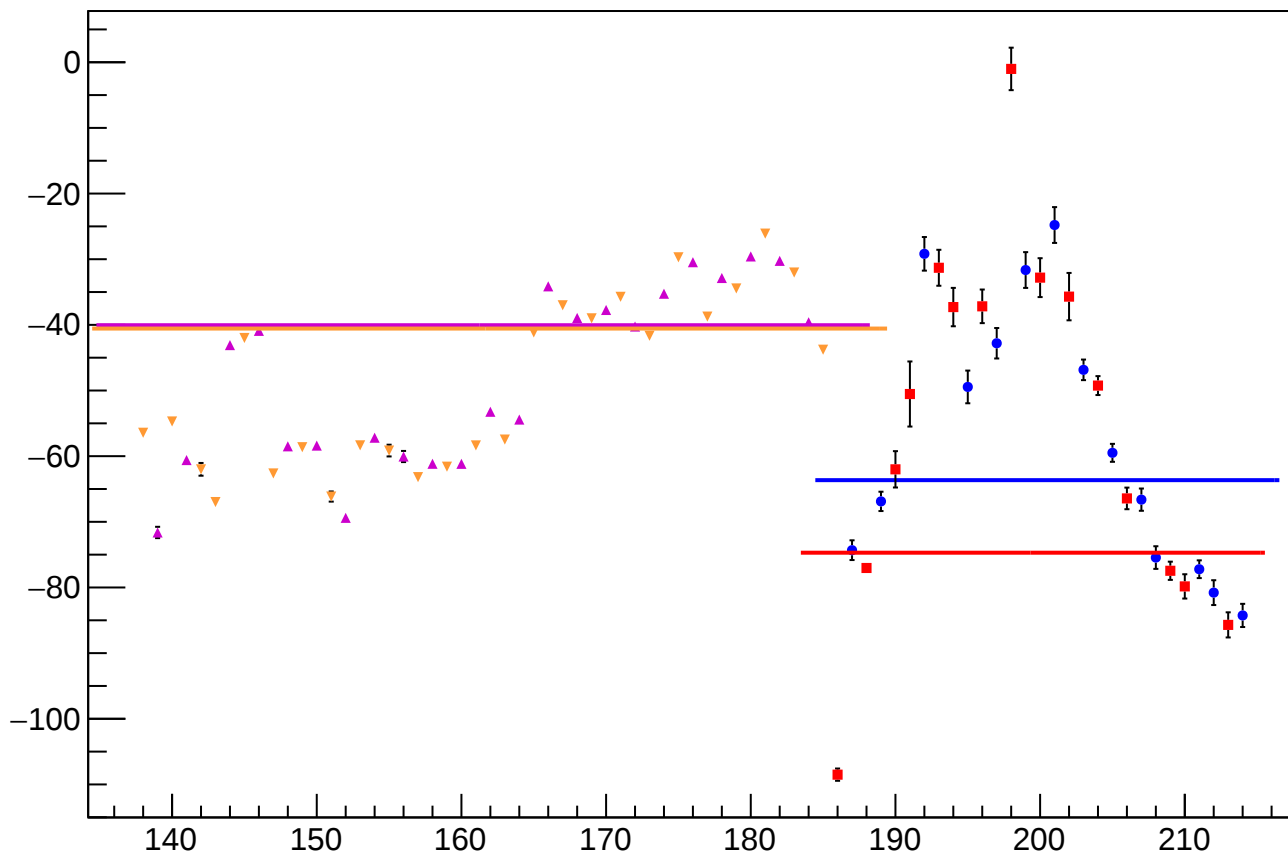
Right: -8.550 ± 0.485 χ^2/NDF : 317.6/28

In: 6.735 ± 0.077 χ^2/NDF : 3079.9/36

Out: 6.815 ± 0.077 χ^2/NDF : 3343.5/39

All: 6.776 ± 0.054 χ^2/NDF : 6423.9/76

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -63.653+/-0.474 χ^2/NDF : 1183.9/13

Left Out: -40.563+/-0.095 χ^2/NDF :15637.6/24

Right Out: -74.703+/-0.418 χ^2/NDF : 3207.8/14

Left In: -40.053+/-0.096 χ^2/NDF :13927.3/22

Left: -40.310+/-0.067 χ^2/NDF : 29579.2/47

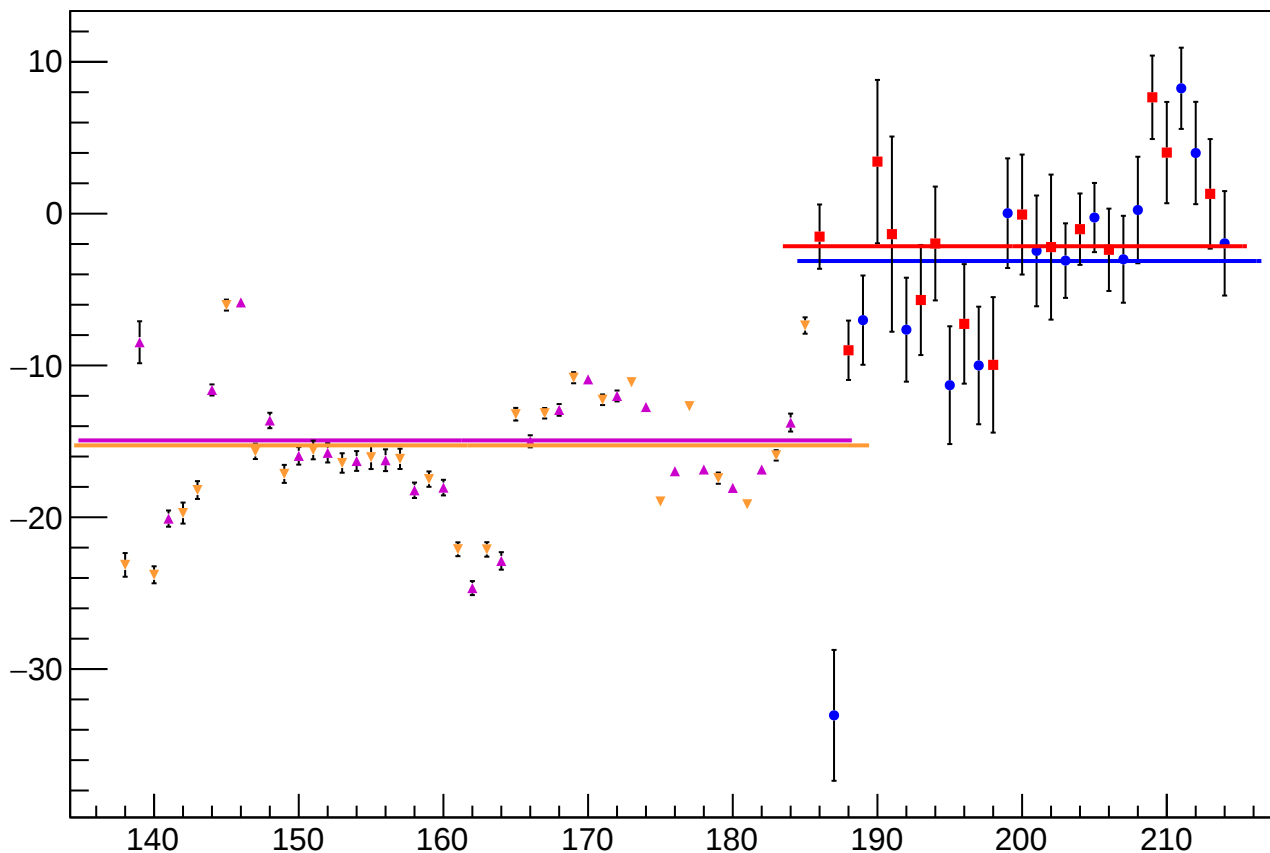
Right: -69.865+/-0.314 χ^2/NDF : 4696.9/28

In: -40.976+/-0.094 χ^2/NDF :17490.8/36

Out: -42.227+/-0.092 χ^2/NDF :25176.2/39

All: -41.611+/-0.066 χ^2/NDF : 42757.2/76

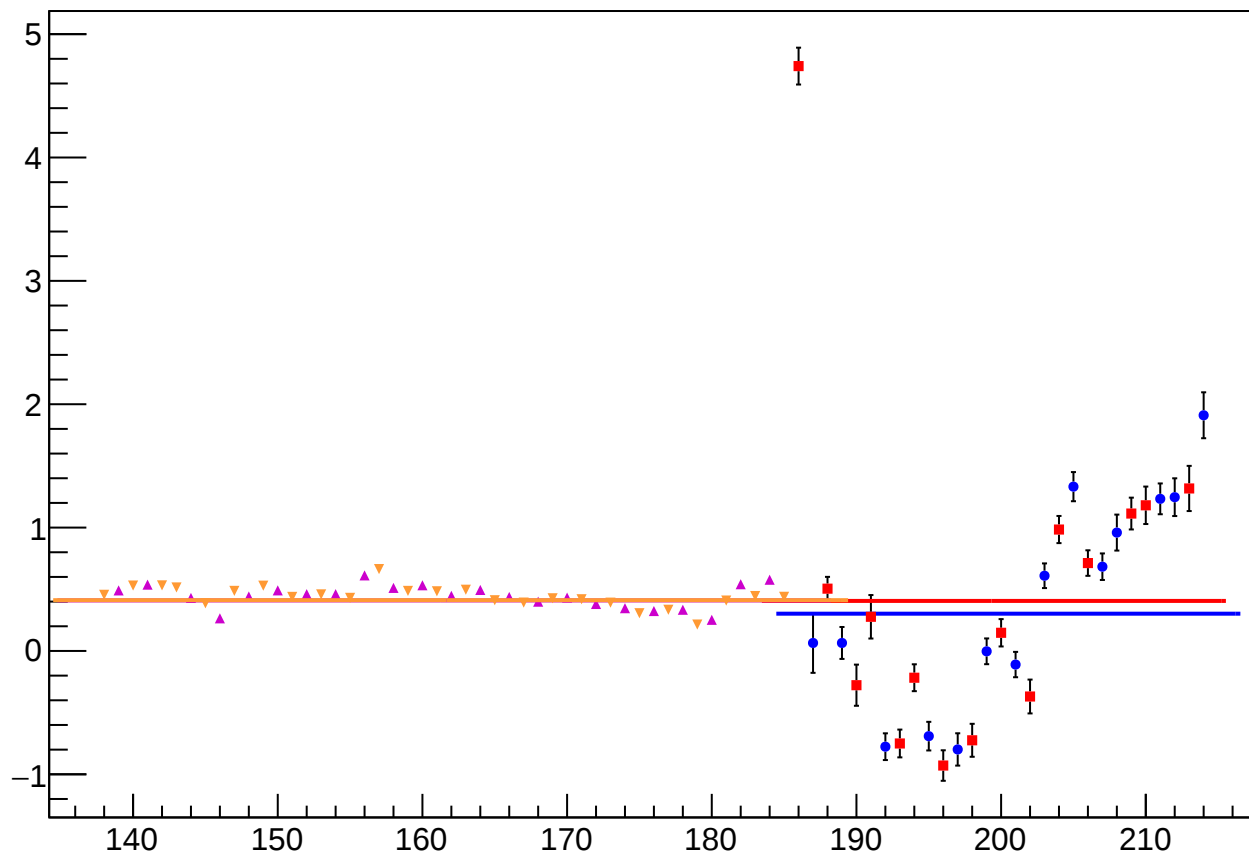
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.121 ± 0.841 $\chi^2/\text{NDF}: 85.2/13$
 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: -2.614 ± 0.583 $\chi^2/\text{NDF}: 122.7/28$
 In: -14.812 ± 0.086 $\chi^2/\text{NDF}: 2480.2/36$
 Out: -15.119 ± 0.085 $\chi^2/\text{NDF}: 2892.4/39$
 All: -14.967 ± 0.061 $\chi^2/\text{NDF}: 5379.0/76$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.302 $\pm$ 0.033 χ^2/NDF : 558.5/13

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

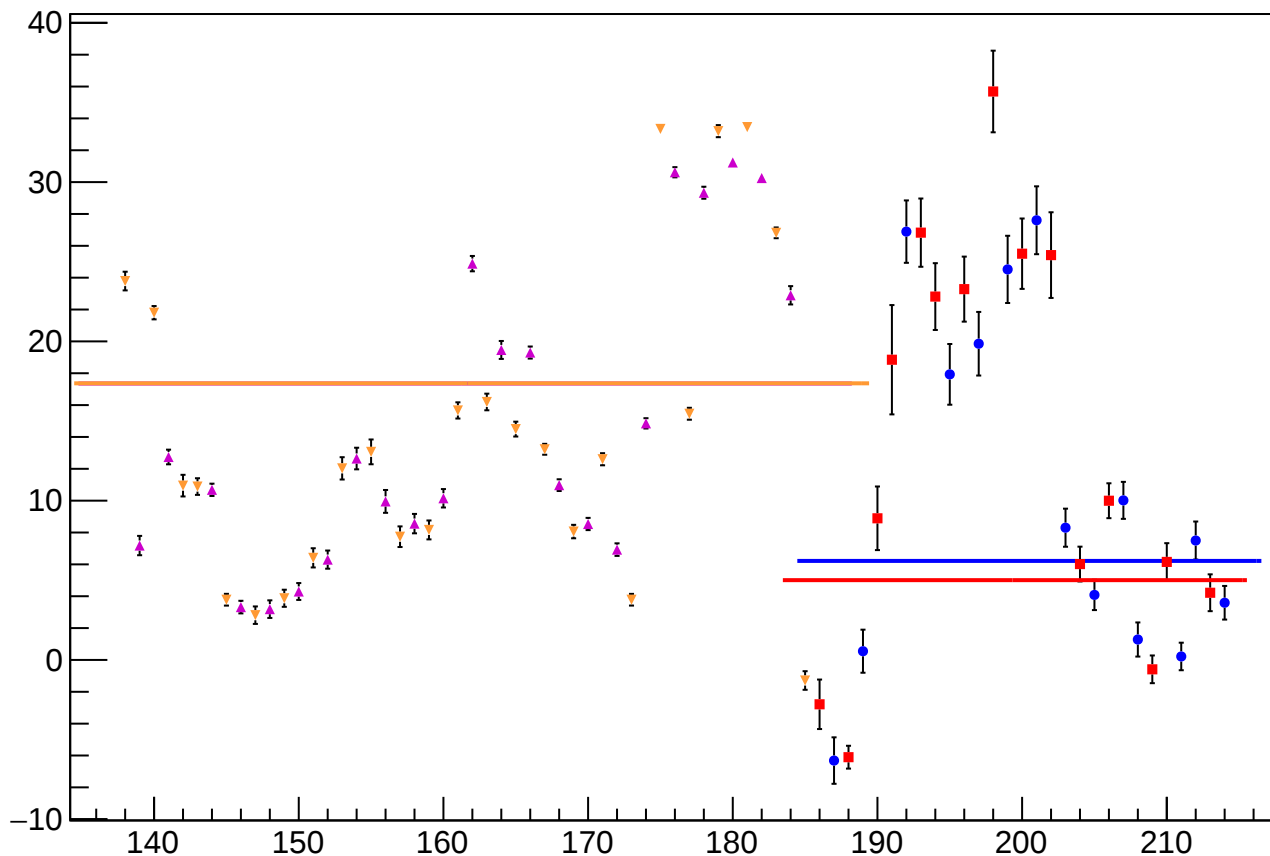
Right: 0.355 $\pm$ 0.023 χ^2/NDF : 1904.9/28

In: 0.408 $\pm$ 0.004 χ^2/NDF : 1126.8/36

Out: 0.411 $\pm$ 0.004 χ^2/NDF : 1770.2/39

All: 0.410 $\pm$ 0.003 χ^2/NDF : 2897.3/76

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.217 $\pm$ 0.341 χ^2 /NDF: 558.7/13

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

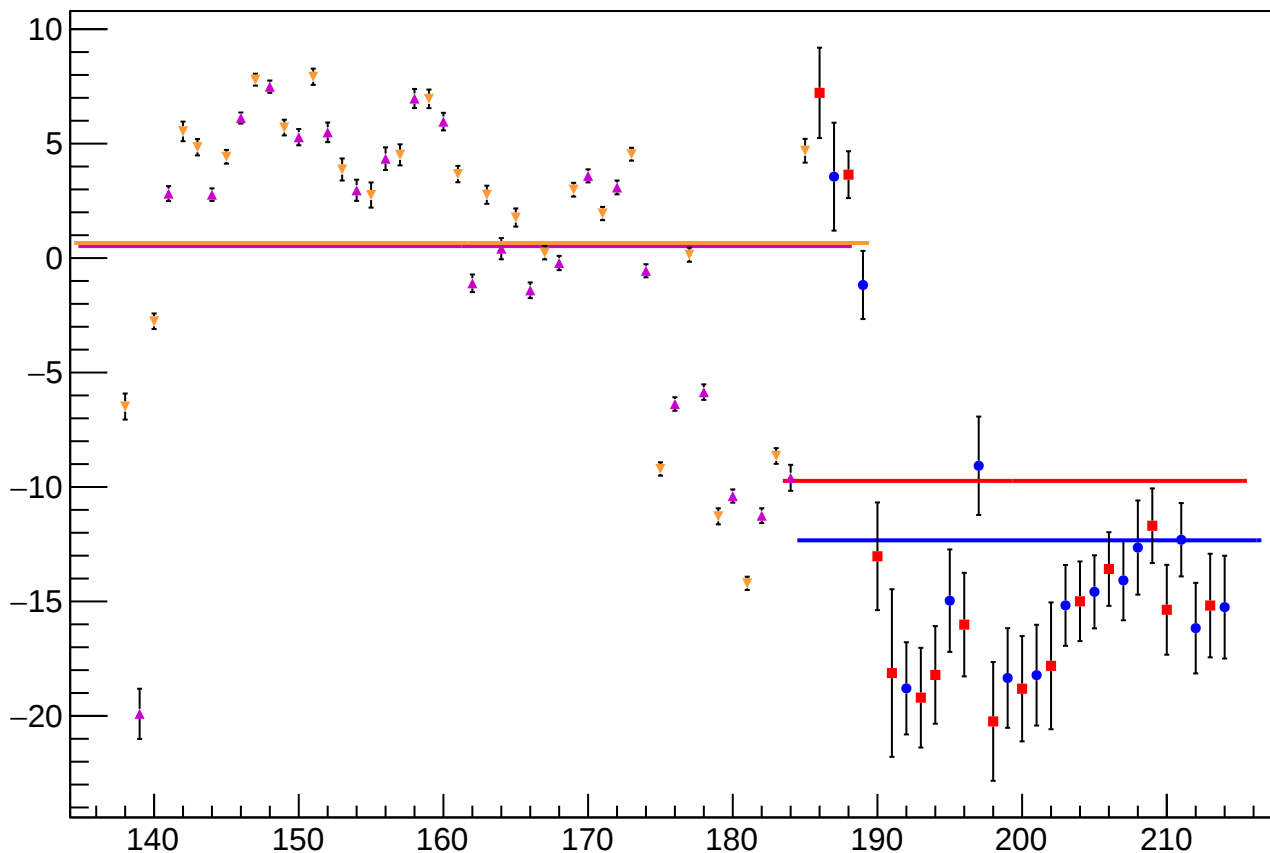
Right: 5.622 $\pm$ 0.243 χ^2 /NDF: 1457.7/28

In: 16.646 $\pm$ 0.086 χ^2 /NDF:14302.8/36

Out: 16.632 $\pm$ 0.084 χ^2 /NDF:18428.4/39

All: 16.639 $\pm$ 0.060 χ^2 /NDF: 32731.2/76

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

Right: -10.986 ± 0.355 χ^2/NDF : 520.0/28

In: 0.281 ± 0.070 χ^2/NDF : 7492.8/36

Out: 0.459 ± 0.069 χ^2/NDF : 9354.2/39

All: 0.372 ± 0.049 χ^2/NDF : 16850.3/76

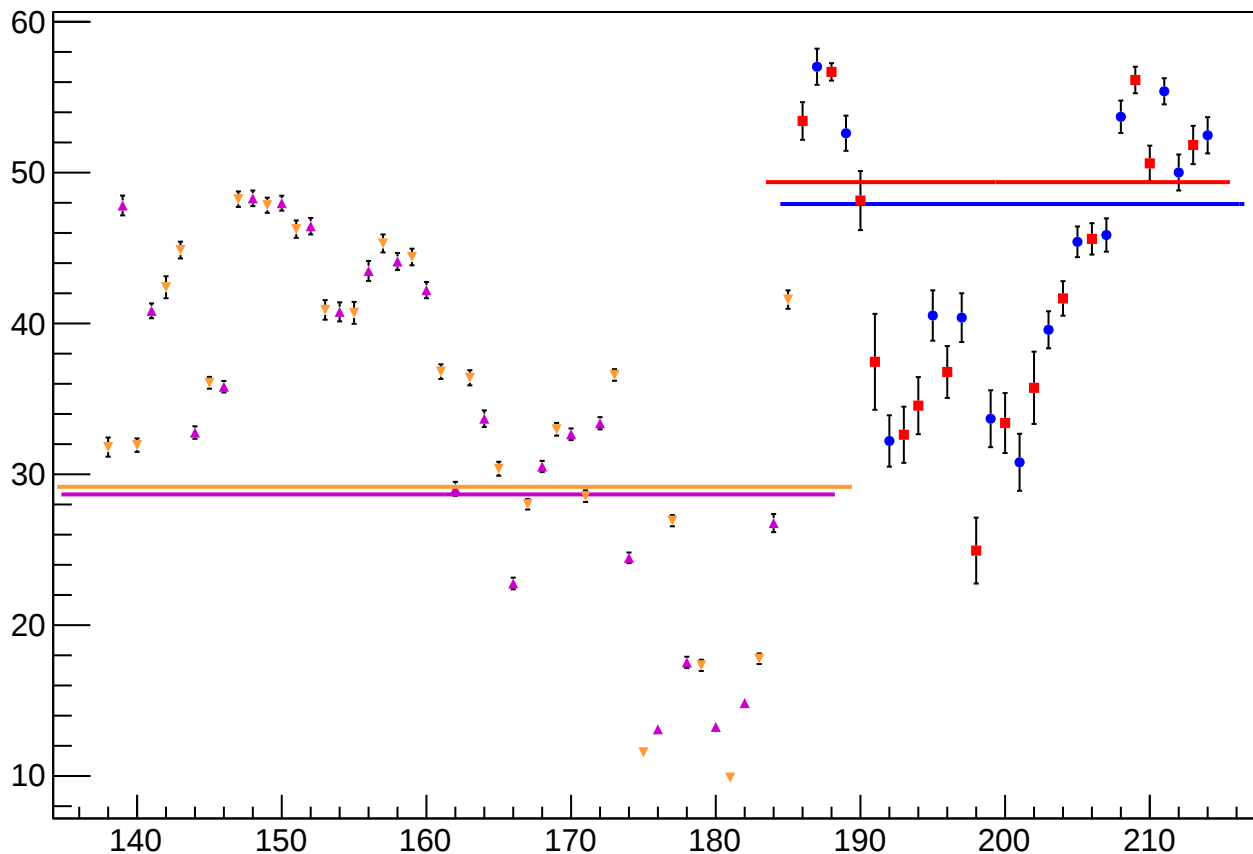
Right In: -12.330 ± 0.511 χ^2/NDF : 141.5/13

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -9.732 ± 0.493 χ^2/NDF : 365.2/14

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

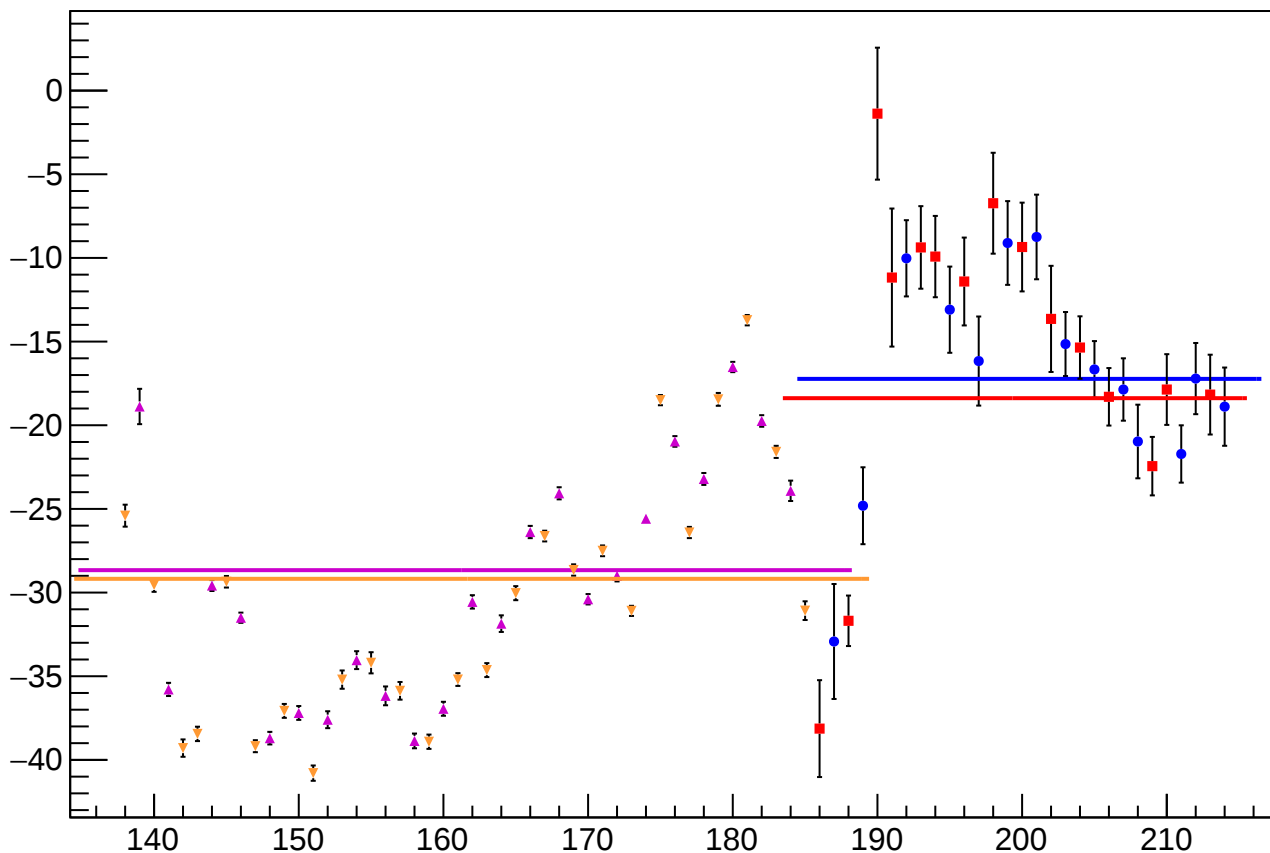
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.918 $\pm$ 0.331 χ^2 /NDF: 515.6/13
 Left Out: 29.171 $\pm$ 0.088 χ^2 /NDF:18974.7/24
 Right Out: 49.369 $\pm$ 0.319 χ^2 /NDF: 724.3/14
 Left In: 28.667 $\pm$ 0.089 χ^2 /NDF:16847.2/22

Left: 28.923 $\pm$ 0.063 χ^2 /NDF: 35838.1/47
 Right: 48.671 $\pm$ 0.230 χ^2 /NDF: 1249.9/28
 In: 29.968 $\pm$ 0.086 χ^2 /NDF:20514.8/36
 Out: 30.596 $\pm$ 0.085 χ^2 /NDF:23434.8/39
 All: 30.287 $\pm$ 0.060 χ^2 /NDF: 43976.7/76

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



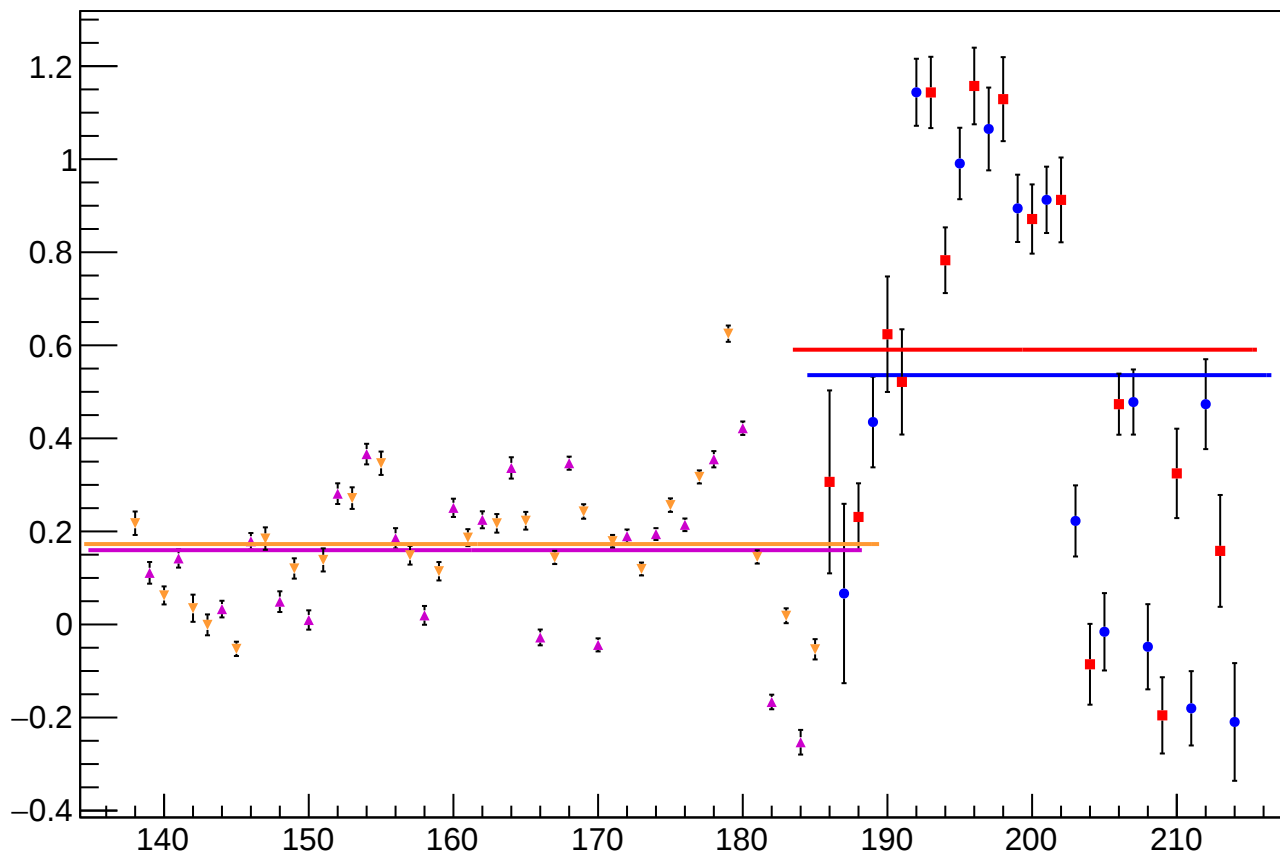
Right In: -17.229 ± 0.584 $\chi^2/\text{NDF}: 77.9/13$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -18.383 ± 0.591 $\chi^2/\text{NDF}: 215.3/14$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$
 Right: -17.799 ± 0.415 $\chi^2/\text{NDF}: 295.2/28$

In: -28.450 ± 0.079 $\chi^2/\text{NDF}: 7124.6/36$
 Out: -28.992 ± 0.077 $\chi^2/\text{NDF}: 9624.8/39$

All: -28.727 ± 0.055 $\chi^2/\text{NDF}: 16773.3/76$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.536 $\pm$ 0.023 χ^2 /NDF: 418.8/13

Left Out: 0.173 $\pm$ 0.004 χ^2 /NDF:1478.5/24

Right Out: 0.591 $\pm$ 0.022 χ^2 /NDF: 372.8/14

Left In: 0.160 $\pm$ 0.004 χ^2 /NDF:2057.9/22

Left: 0.166 $\pm$ 0.003 χ^2 /NDF: 3542.9/47

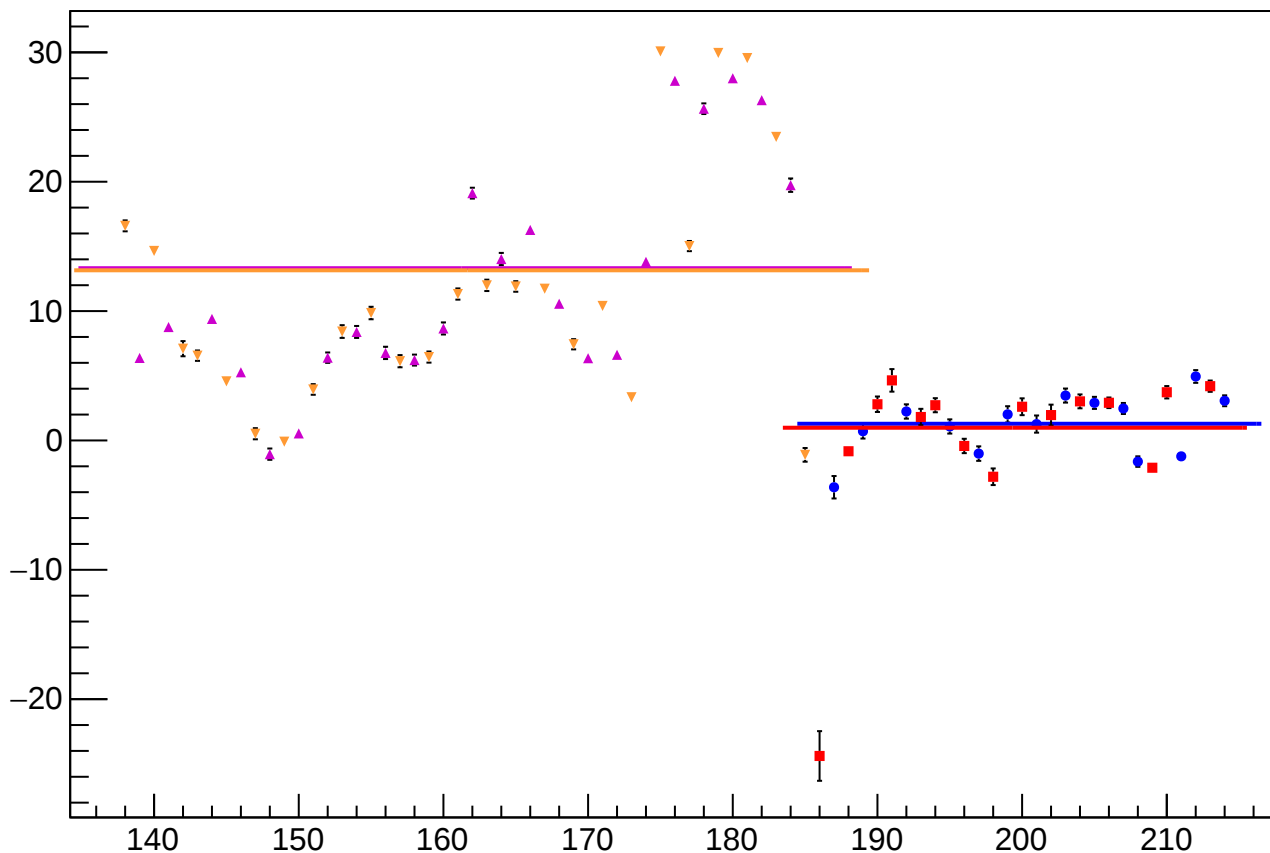
Right: 0.563 $\pm$ 0.016 χ^2 /NDF: 794.6/28

In: 0.169 $\pm$ 0.004 χ^2 /NDF:2748.9/36

Out: 0.183 $\pm$ 0.004 χ^2 /NDF:2190.3/39

All: 0.176 $\pm$ 0.003 χ^2 /NDF: 4946.8/76

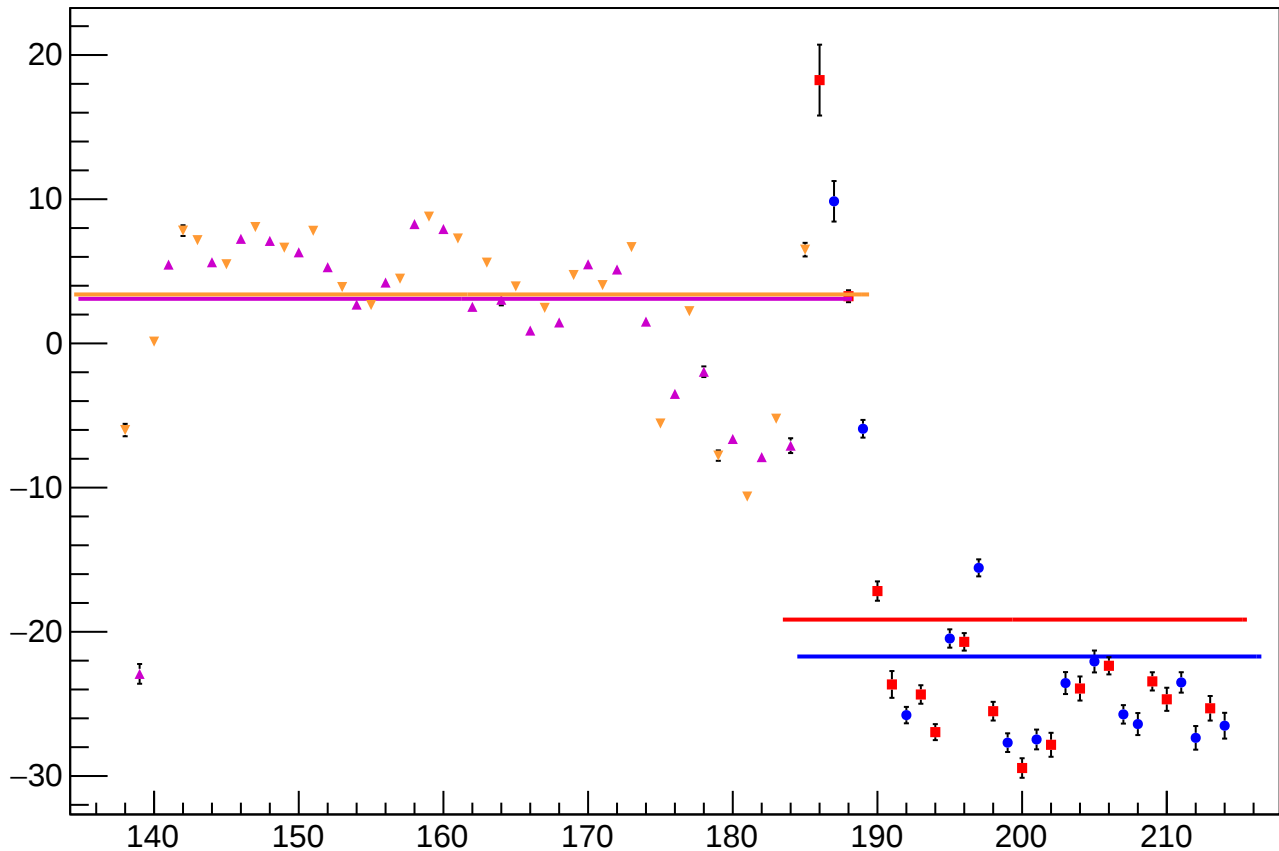
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.290 $\pm$ 0.135 χ^2 /NDF: 258.3/13
 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: 1.130 $\pm$ 0.093 χ^2 /NDF: 773.0/28
 In: 10.344 $\pm$ 0.067 χ^2 /NDF:20245.9/36
 Out: 10.058 $\pm$ 0.065 χ^2 /NDF:24248.9/39
 All: 10.197 $\pm$ 0.047 χ^2 /NDF: 44504.2/76

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.712 ± 0.188 $\chi^2/\text{NDF}: 1650.2/13$

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 $\chi^2/\text{NDF}: 15218.9/47$

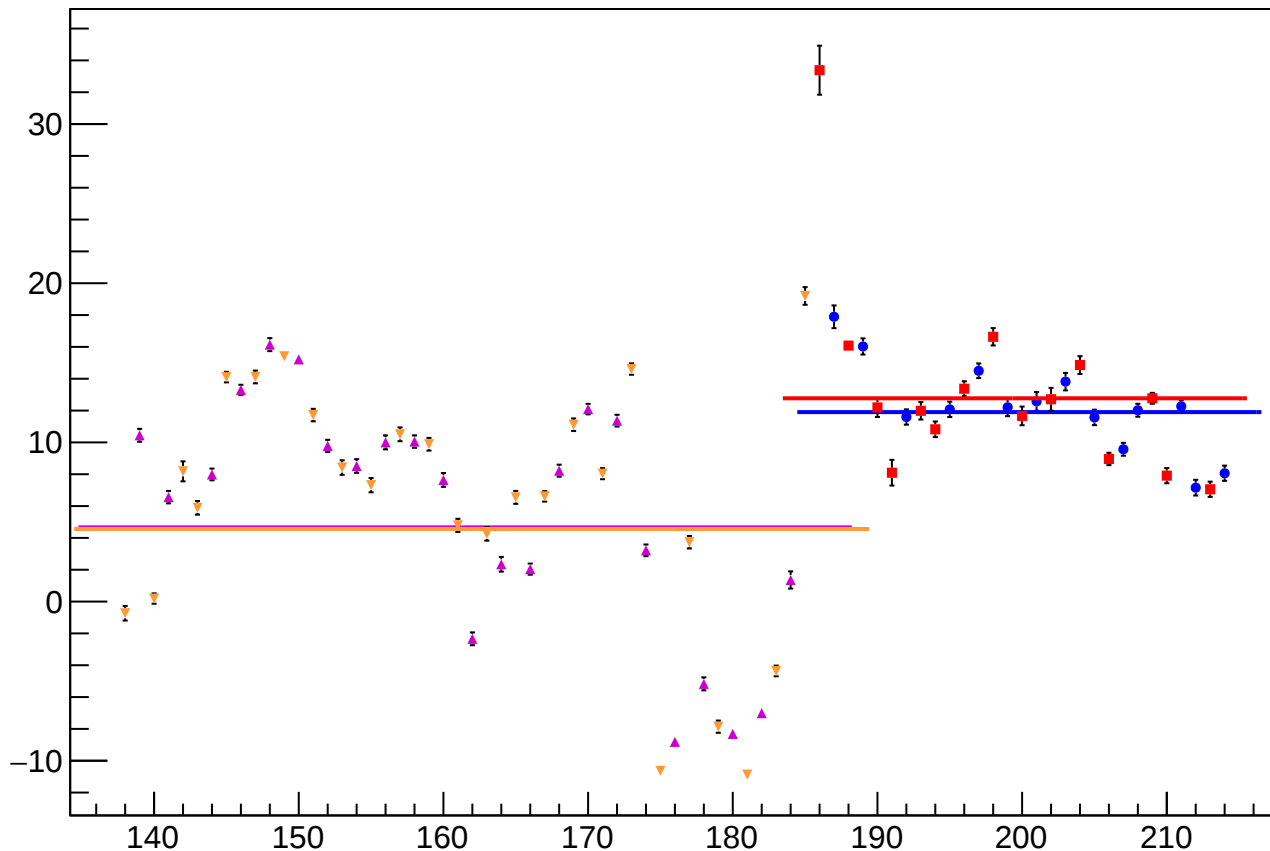
Right: -20.329 ± 0.127 $\chi^2/\text{NDF}: 5856.4/28$

In: 0.748 ± 0.058 $\chi^2/\text{NDF}: 24601.4/36$

Out: 1.089 ± 0.055 $\chi^2/\text{NDF}: 27471.9/39$

All: 0.926 ± 0.040 $\chi^2/\text{NDF}: 52091.4/76$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 11.903+/-0.129 χ^2/NDF : 374.5/13

Left Out: 4.561+/-0.075 χ^2/NDF :13592.1/24

Right Out: 12.771+/-0.118 χ^2/NDF : 852.9/14

Left In: 4.662+/-0.077 χ^2/NDF :11281.5/22

Left: 4.610+/-0.054 χ^2/NDF : 24874.4/47

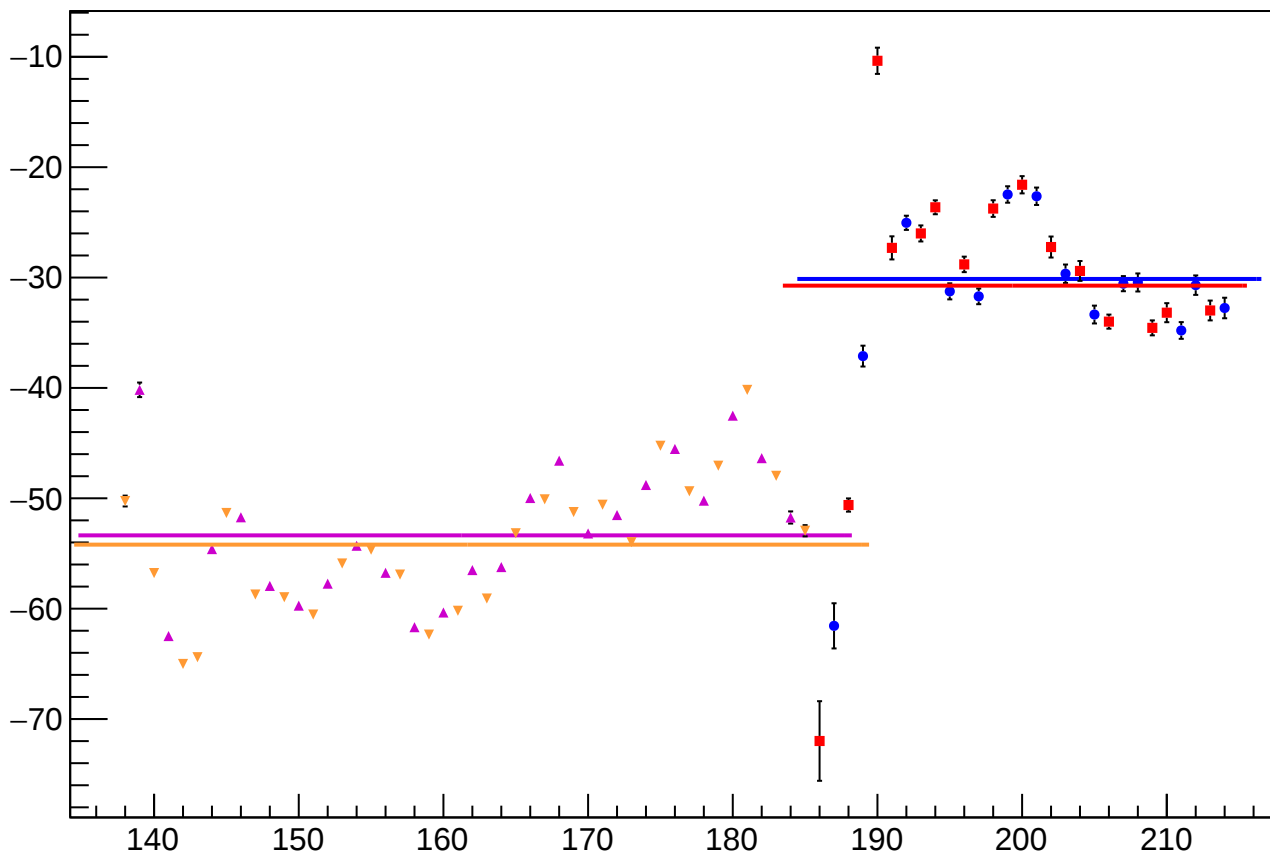
Right: 12.373+/-0.087 χ^2/NDF : 1251.9/28

In: 6.559+/-0.066 χ^2/NDF :13984.3/36

Out: 6.927+/-0.064 χ^2/NDF :17862.4/39

All: 6.750+/-0.046 χ^2/NDF : 31862.8/76

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.126 ± 0.214 $\chi^2/\text{NDF}: 619.4/13$

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 $\chi^2/\text{NDF}: 15414.3/47$

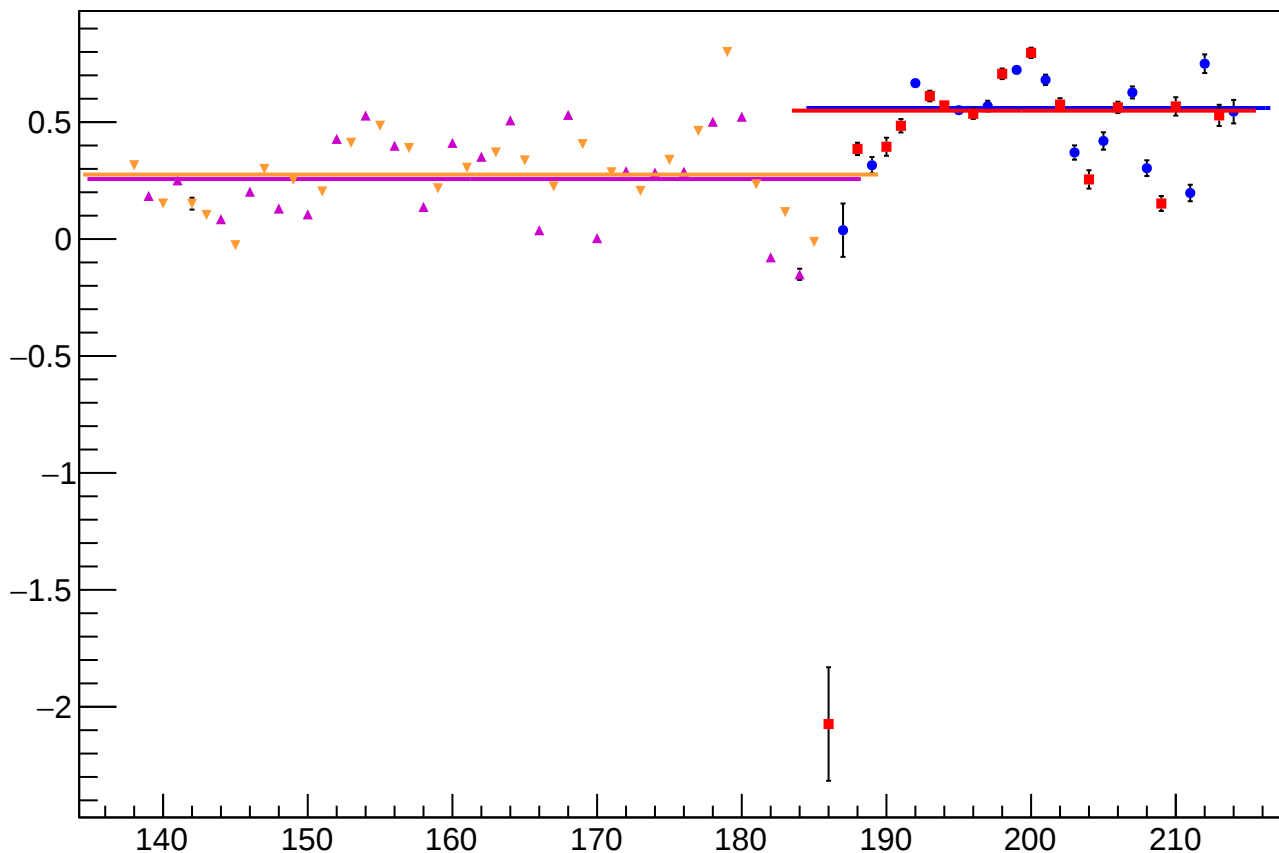
Right: -30.443 ± 0.148 $\chi^2/\text{NDF}: 2647.3/28$

In: -51.201 ± 0.065 $\chi^2/\text{NDF}: 18192.6/36$

Out: -51.965 ± 0.063 $\chi^2/\text{NDF}: 22370.6/39$

All: -51.595 ± 0.045 $\chi^2/\text{NDF}: 40634.1/76$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.560 ± 0.008 χ^2/NDF : 430.6/13

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

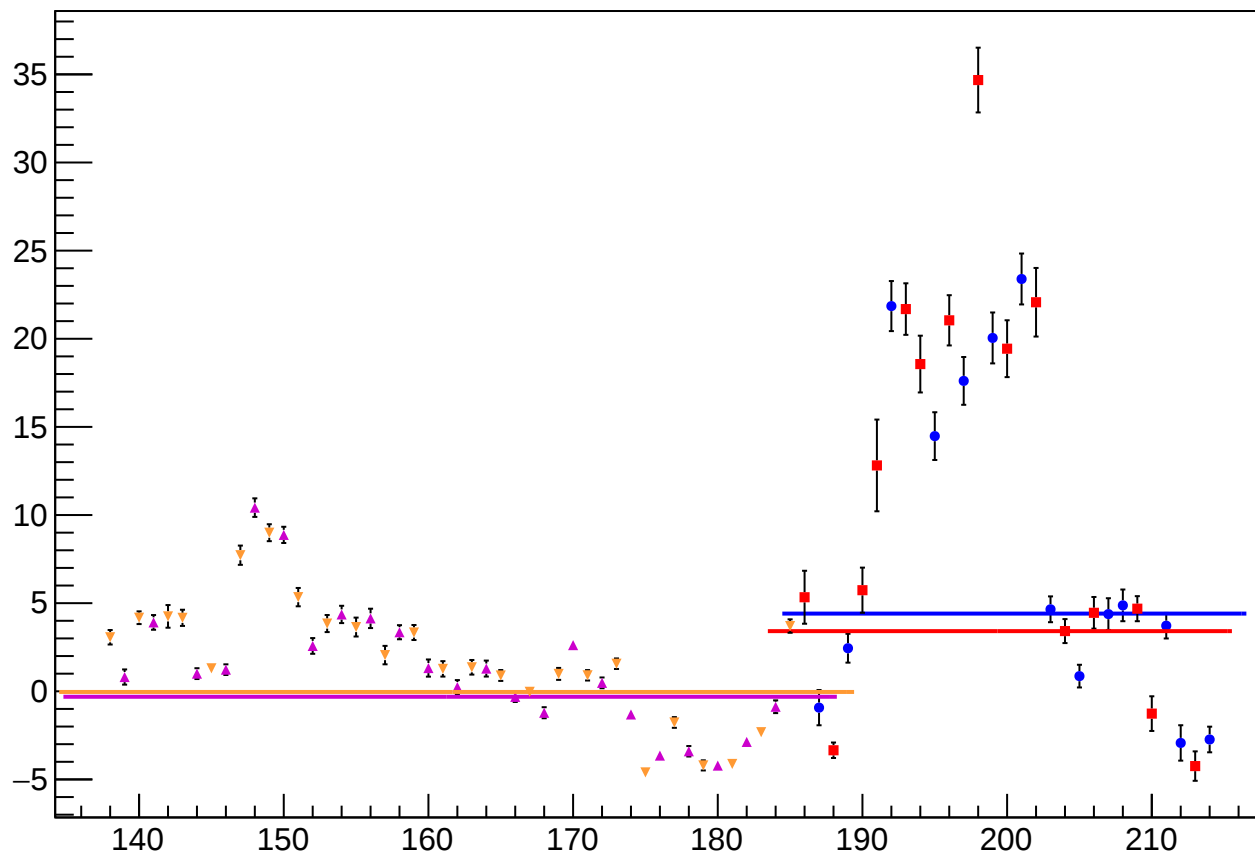
Right: 0.554 ± 0.005 χ^2/NDF : 1006.9/28

In: 0.301 ± 0.003 χ^2/NDF : 5440.0/36

Out: 0.319 ± 0.003 χ^2/NDF : 4466.0/39

All: 0.310 ± 0.002 χ^2/NDF : 9927.1/76

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.408 $\pm$ 0.246 χ^2 /NDF: 806.8/13

Left Out: -0.037 $\pm$ 0.066 χ^2 /NDF: 2637.7/24

Right Out: 3.413 $\pm$ 0.246 χ^2 /NDF: 1244.3/14

Left In: -0.310 $\pm$ 0.067 χ^2 /NDF: 2250.5/22

Left: -0.171 $\pm$ 0.047 χ^2 /NDF: 4896.5/47

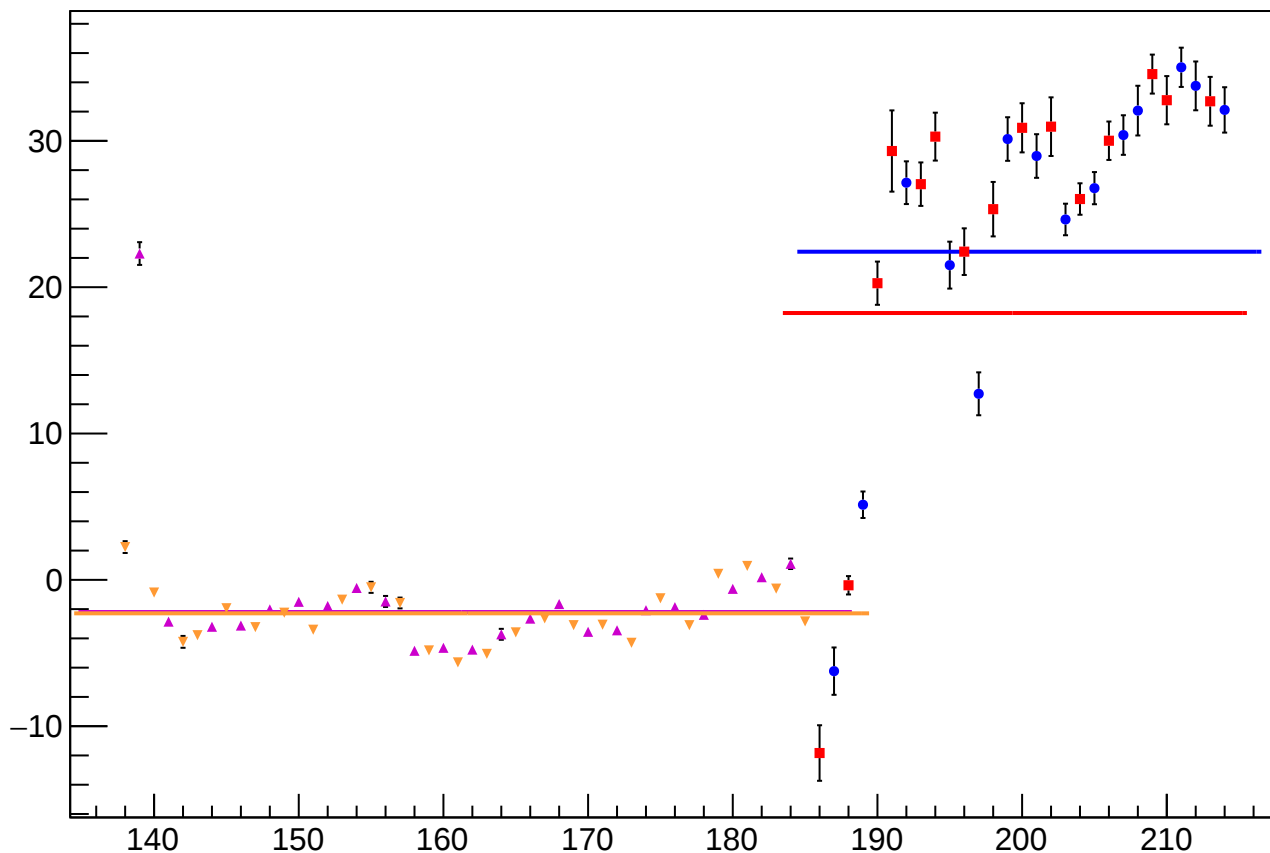
Right: 3.911 $\pm$ 0.174 χ^2 /NDF: 2059.3/28

In: 0.019 $\pm$ 0.065 χ^2 /NDF: 3400.5/36

Out: 0.195 $\pm$ 0.064 χ^2 /NDF: 4065.5/39

All: 0.109 $\pm$ 0.045 χ^2 /NDF: 7469.7/76

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 22.425 ± 0.359 $\chi^2/\text{NDF}: 1039.7/13$

Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$

Right Out: 18.235 ± 0.348 $\chi^2/\text{NDF}: 1791.5/14$

Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$

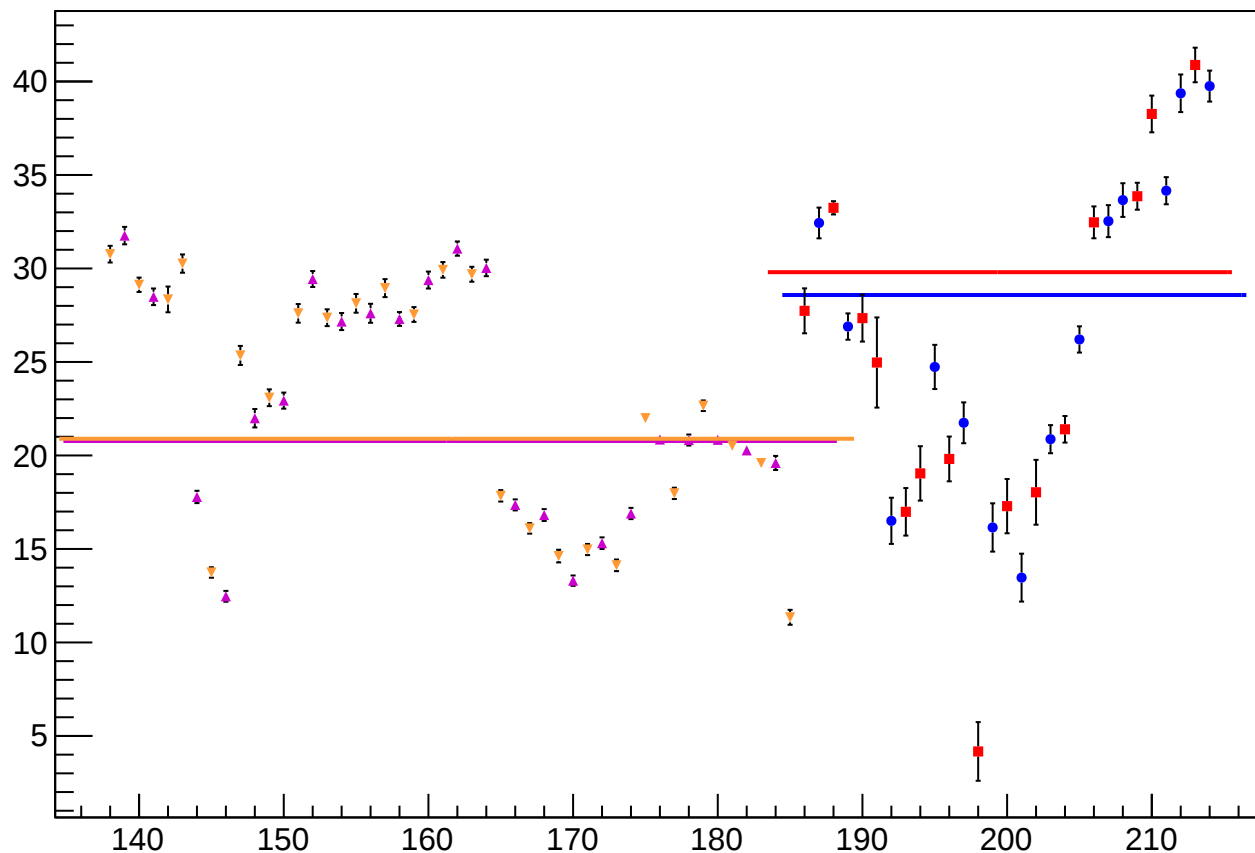
Right: 20.263 ± 0.250 $\chi^2/\text{NDF}: 2901.2/28$

In: -1.633 ± 0.054 $\chi^2/\text{NDF}: 7297.7/36$

Out: -1.803 ± 0.053 $\chi^2/\text{NDF}: 6323.1/39$

All: -1.720 ± 0.038 $\chi^2/\text{NDF}: 13625.7/76$

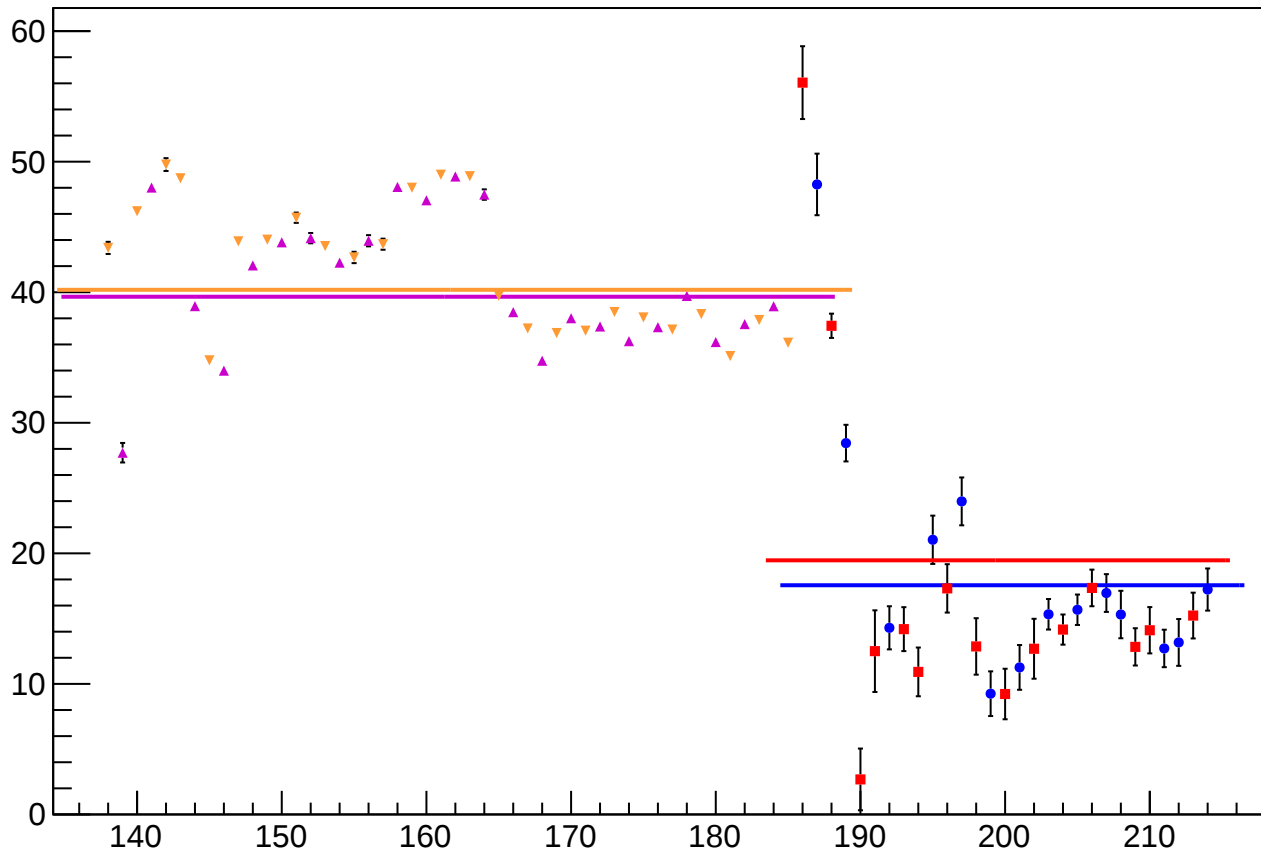
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 28.581 $\pm$ 0.238 χ^2 /NDF: 930.9/13
 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: 29.229 $\pm$ 0.163 χ^2 /NDF: 2062.3/28
 In: 21.356 $\pm$ 0.065 χ^2 /NDF:7854.5/36
 Out: 21.621 $\pm$ 0.064 χ^2 /NDF:9228.3/39
 All: 21.491 $\pm$ 0.046 χ^2 /NDF: 17091.3/76

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 17.557 $\pm$ 0.417 χ^2 /NDF: 311.8/13

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 19.465 $\pm$ 0.424 χ^2 /NDF: 738.5/14

Left In: 39.655 $\pm$ 0.061 χ^2 /NDF: 5298.6/22

Left: 39.925 $\pm$ 0.043 χ^2 /NDF: 11269.2/47

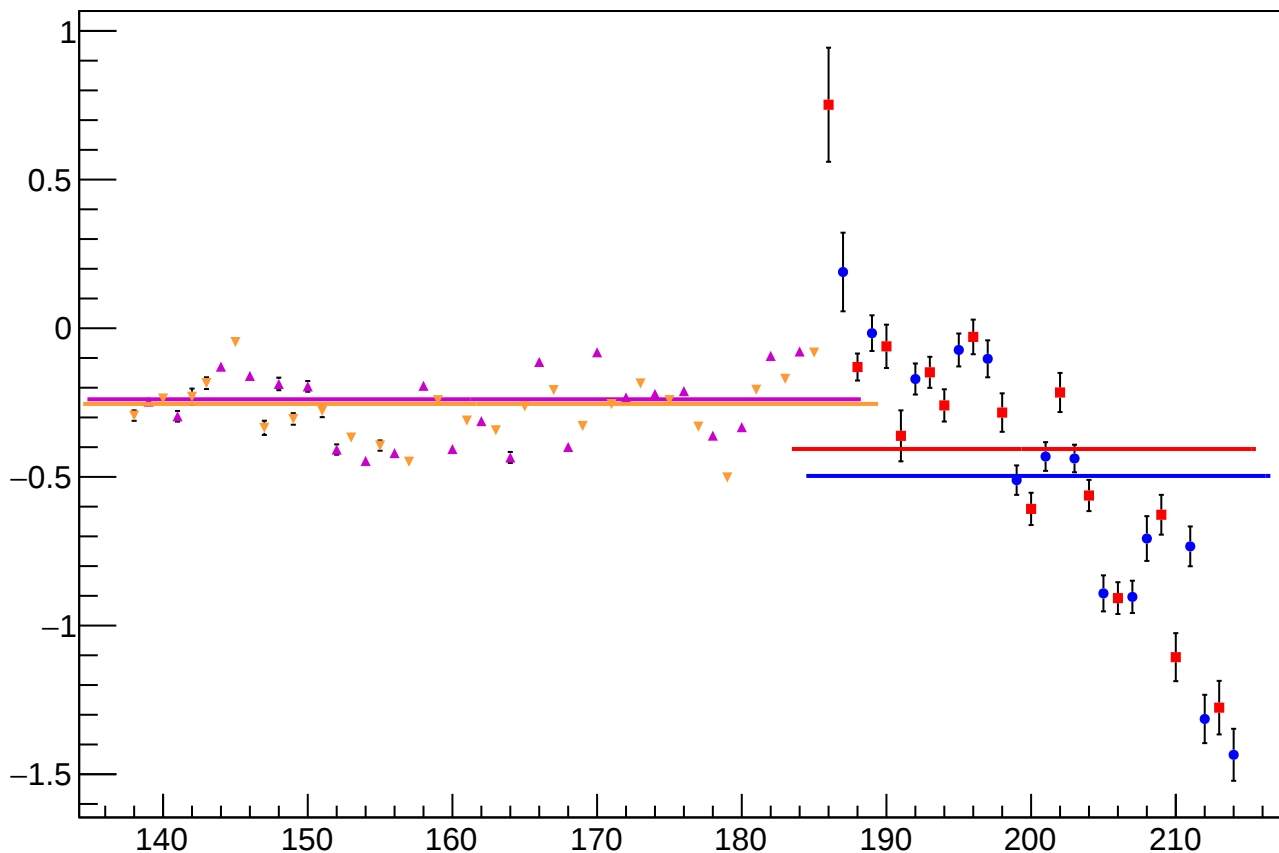
Right: 18.495 $\pm$ 0.297 χ^2 /NDF: 1060.7/28

In: 39.185 $\pm$ 0.061 χ^2 /NDF: 8361.1/36

Out: 39.774 $\pm$ 0.060 χ^2 /NDF: 9011.3/39

All: 39.485 $\pm$ 0.043 χ^2 /NDF: 17420.1/76

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.497 ± 0.016 χ^2/NDF : 567.0/13

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

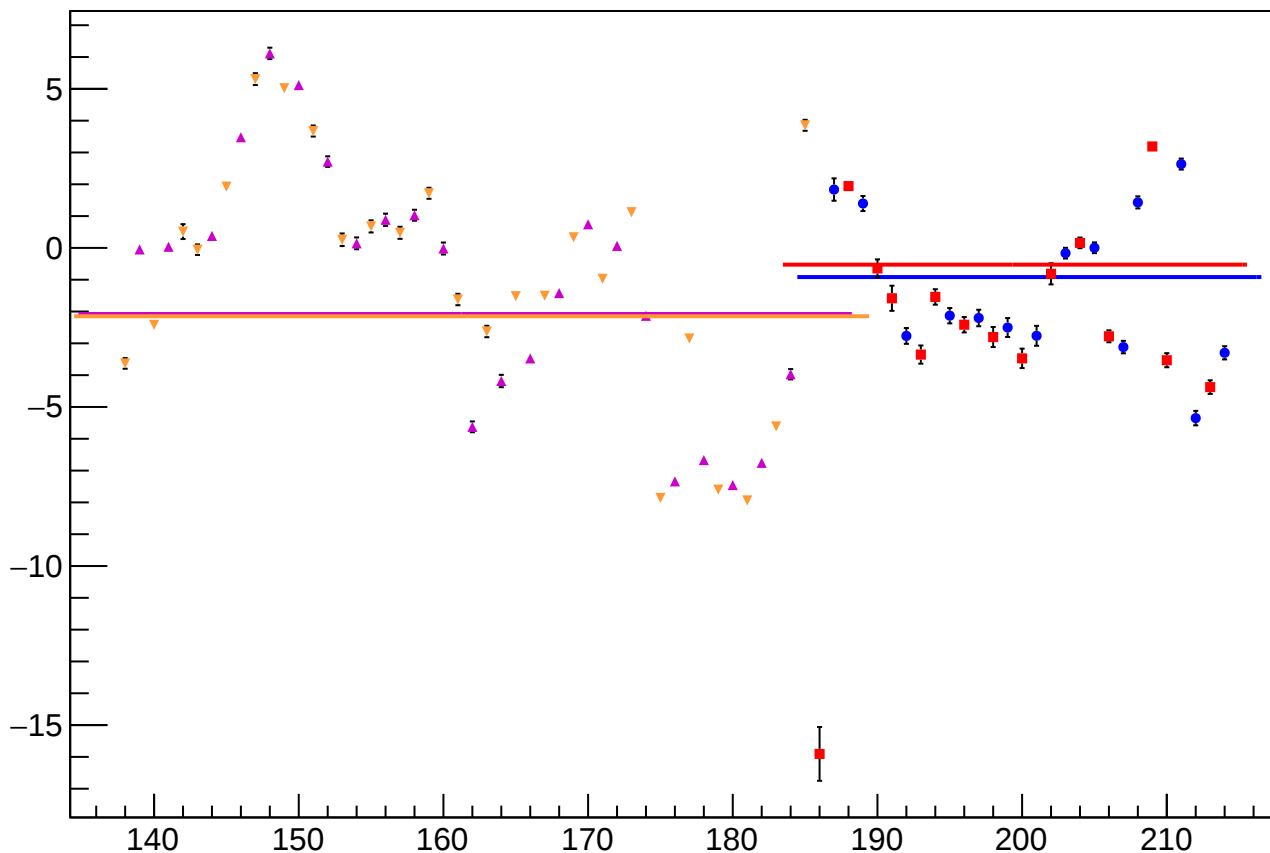
Right: -0.452 ± 0.011 χ^2/NDF : 1054.1/28

In: -0.247 ± 0.003 χ^2/NDF : 2567.9/36

Out: -0.259 ± 0.003 χ^2/NDF : 1977.7/39

All: -0.253 ± 0.002 χ^2/NDF : 4555.7/76

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

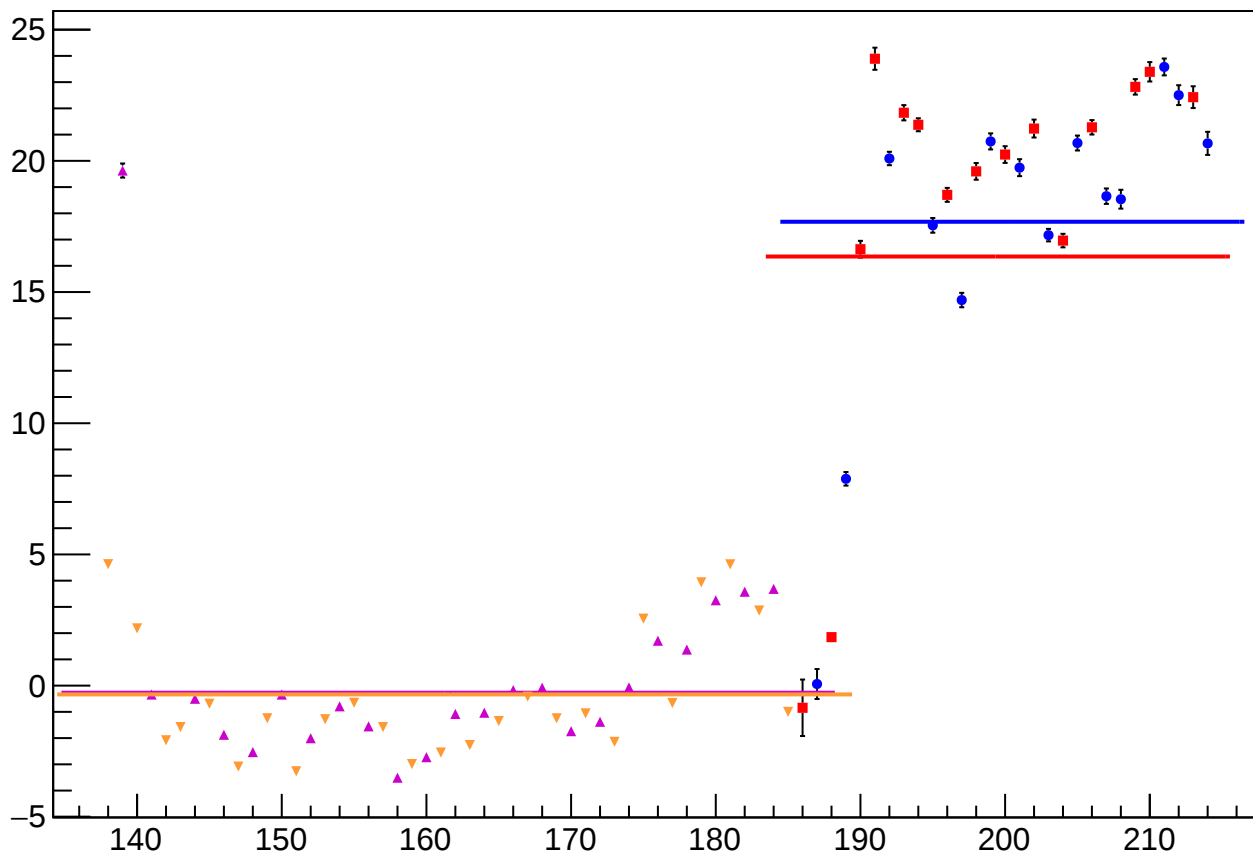


Right In: -0.917 ± 0.058 χ^2/NDF : 1582.9/13
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.526 ± 0.055 χ^2/NDF : 2389.3/14
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -0.712 ± 0.040 χ^2/NDF : 3995.8/28
 In: -1.884 ± 0.024 χ^2/NDF : 25160.2/36
 Out: -1.863 ± 0.023 χ^2/NDF : 27631.5/39

All: -1.873 ± 0.017 χ^2/NDF : 52792.1/76

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.679 ± 0.082 $\chi^2/\text{NDF}: 3407.9/13$

Left Out: -0.335 ± 0.021 $\chi^2/\text{NDF}: 12596.1/24$

Right Out: 16.354 ± 0.075 $\chi^2/\text{NDF}: 11334.0/14$

Left In: -0.269 ± 0.021 $\chi^2/\text{NDF}: 13323.1/22$

Left: -0.303 ± 0.015 $\chi^2/\text{NDF}: 25924.2/47$

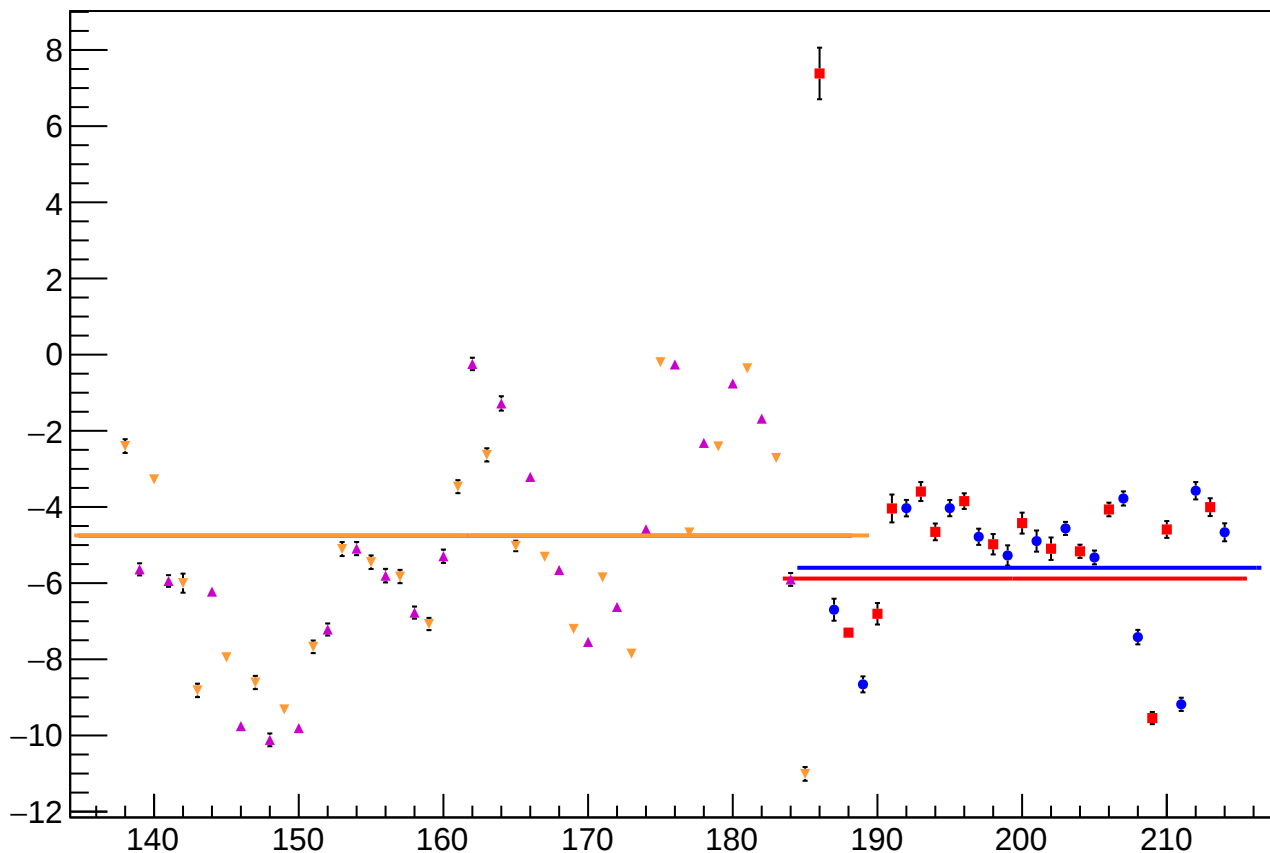
Right: 16.961 ± 0.055 $\chi^2/\text{NDF}: 14885.0/28$

In: 0.842 ± 0.020 $\chi^2/\text{NDF}: 62191.4/36$

Out: 0.835 ± 0.020 $\chi^2/\text{NDF}: 70033.6/39$

All: 0.839 ± 0.014 $\chi^2/\text{NDF}: 132225.1/76$

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.597 $\pm$ 0.056 χ^2 /NDF: 1100.0/13
 Left Out: -4.748 $\pm$ 0.026 χ^2 /NDF:13289.8/24
 Right Out: -5.880 $\pm$ 0.051 χ^2 /NDF: 1678.4/14
 Left In: -4.753 $\pm$ 0.026 χ^2 /NDF:14119.2/22

Left: -4.751 $\pm$ 0.018 χ^2 /NDF: 27409.0/47

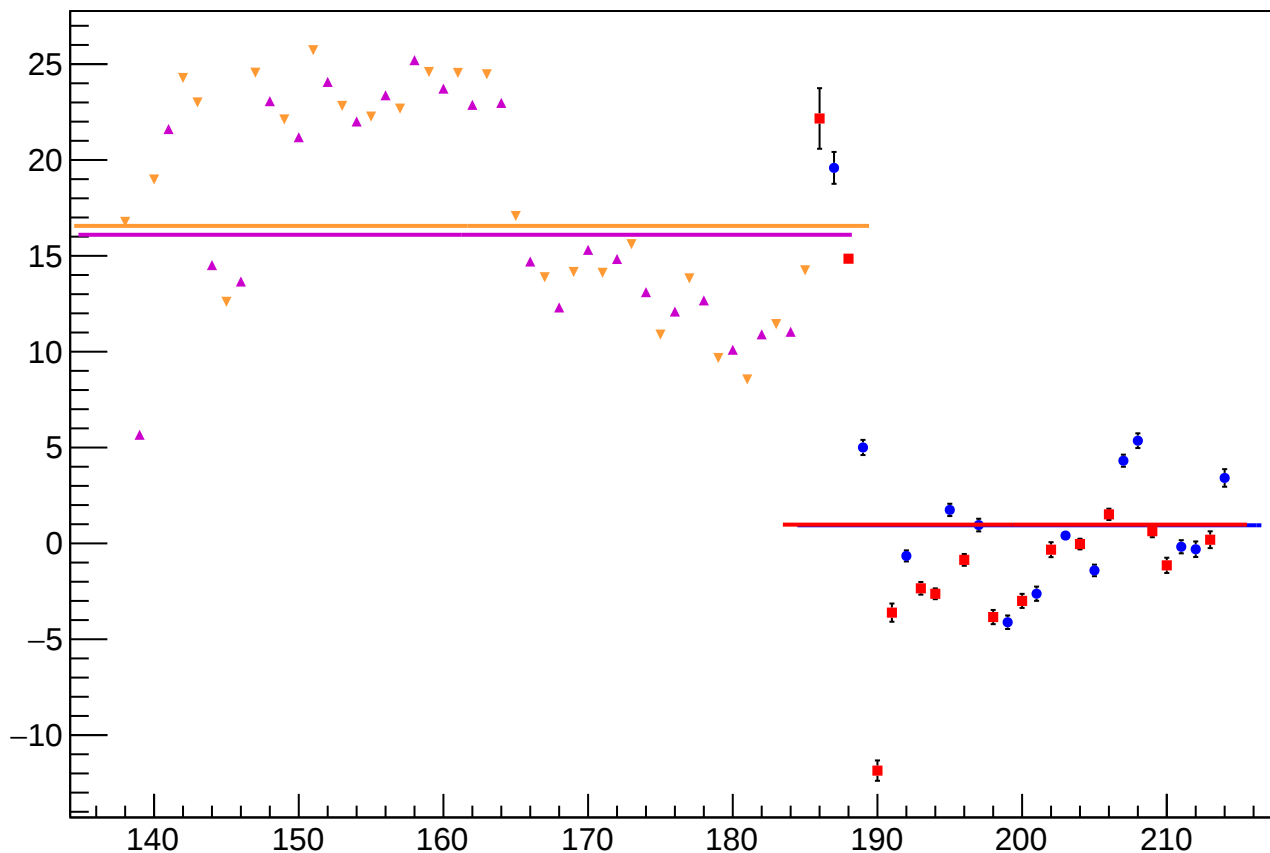
Right: -5.753 $\pm$ 0.038 χ^2 /NDF: 2792.4/28

In: -4.904 $\pm$ 0.024 χ^2 /NDF:15405.1/36

Out: -4.982 $\pm$ 0.023 χ^2 /NDF:15364.7/39

All: -4.944 $\pm$ 0.017 χ^2 /NDF: 30775.4/76

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.945 ± 0.093 $\chi^2/\text{NDF}: 1303.2/13$

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 $\chi^2/\text{NDF}: 96401.9/47$

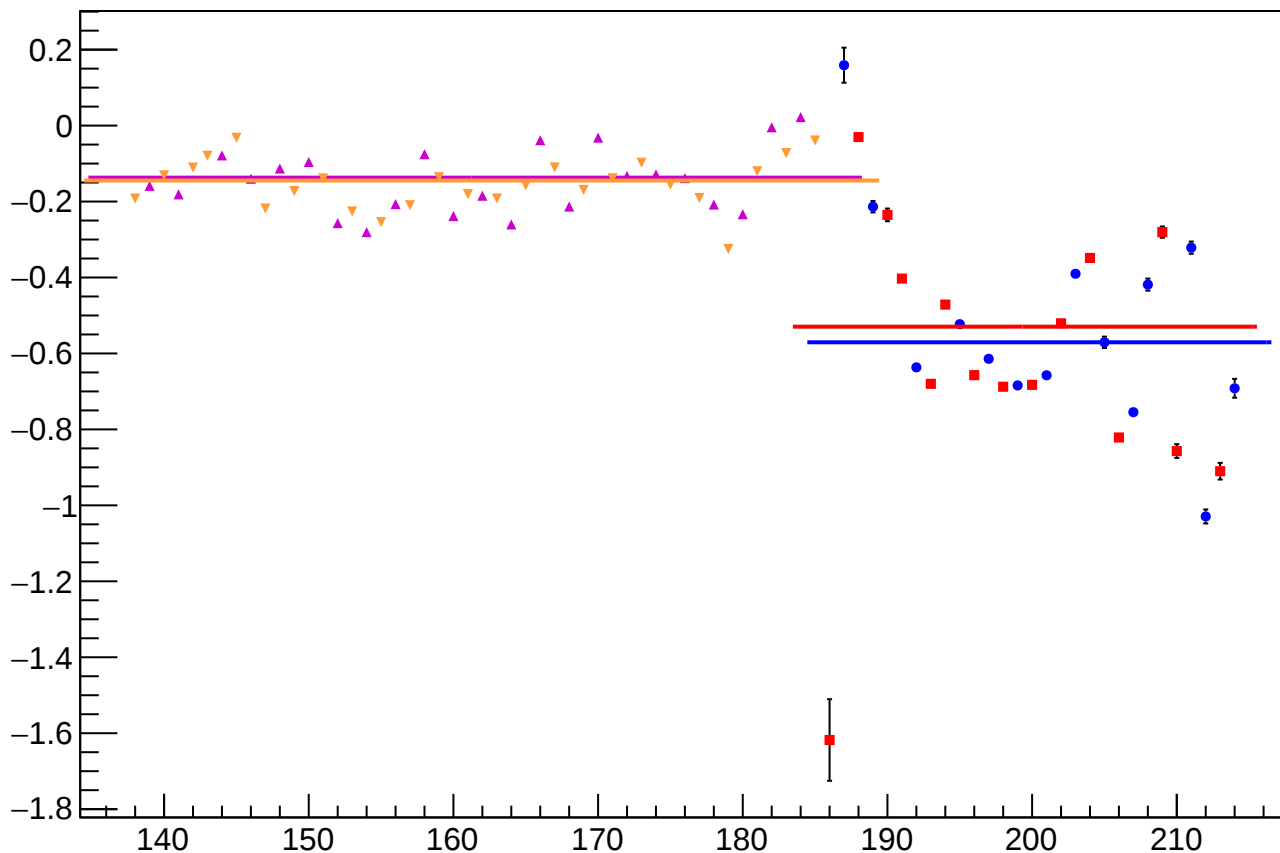
Right: 0.963 ± 0.064 $\chi^2/\text{NDF}: 6323.3/28$

In: 15.184 ± 0.023 $\chi^2/\text{NDF}: 68611.7/36$

Out: 15.576 ± 0.022 $\chi^2/\text{NDF}: 87569.4/39$

All: 15.384 ± 0.016 $\chi^2/\text{NDF}: 156331.5/76$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.571 ± 0.003 χ^2/NDF : 2662.6/13

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

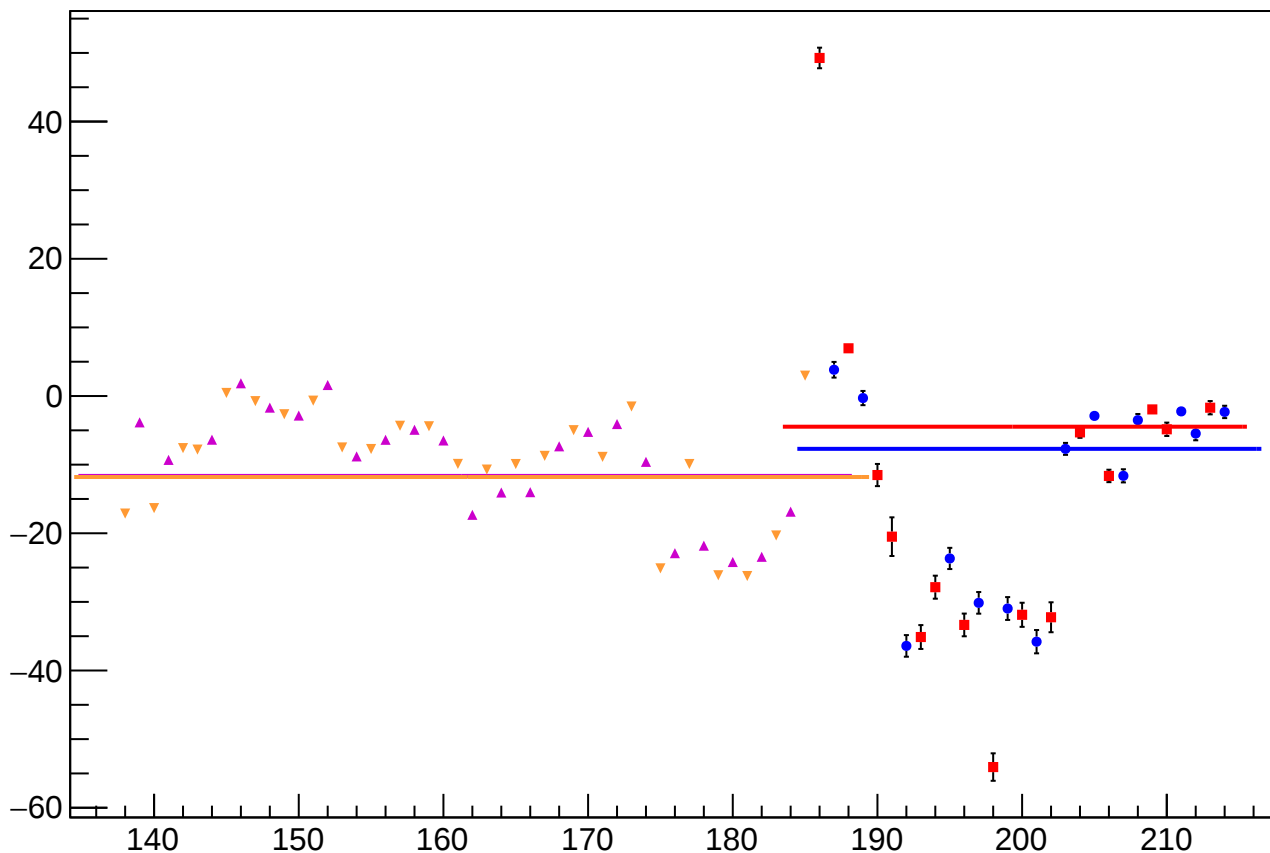
Right: -0.549 ± 0.002 χ^2/NDF : 8229.8/28

In: -0.178 ± 0.001 χ^2/NDF : 23417.1/36

Out: -0.184 ± 0.001 χ^2/NDF : 23053.6/39

All: -0.181 ± 0.001 χ^2/NDF : 46493.0/76

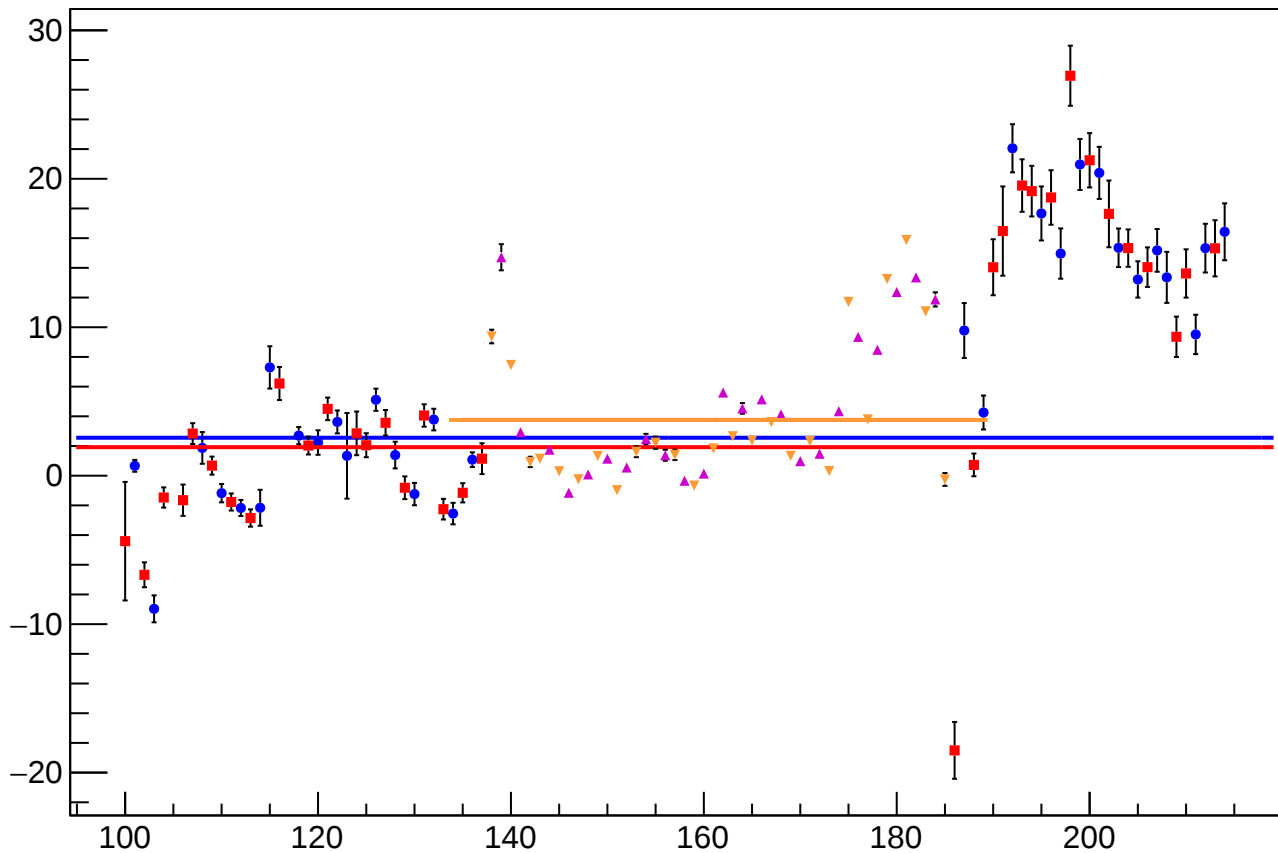
reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.697 ± 0.273 $\chi^2/\text{NDF}: 1444.9/13$
 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: -6.102 ± 0.194 $\chi^2/\text{NDF}: 5215.4/28$
 In: -11.389 ± 0.069 $\chi^2/\text{NDF}: 15761.3/36$
 Out: -11.356 ± 0.068 $\chi^2/\text{NDF}: 21670.7/39$
 All: -11.372 ± 0.049 $\chi^2/\text{NDF}: 37432.1/76$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.557 ± 0.157 $\chi^2/\text{NDF}: 1359.0/30$

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 $\chi^2/\text{NDF}: 13080.0/47$

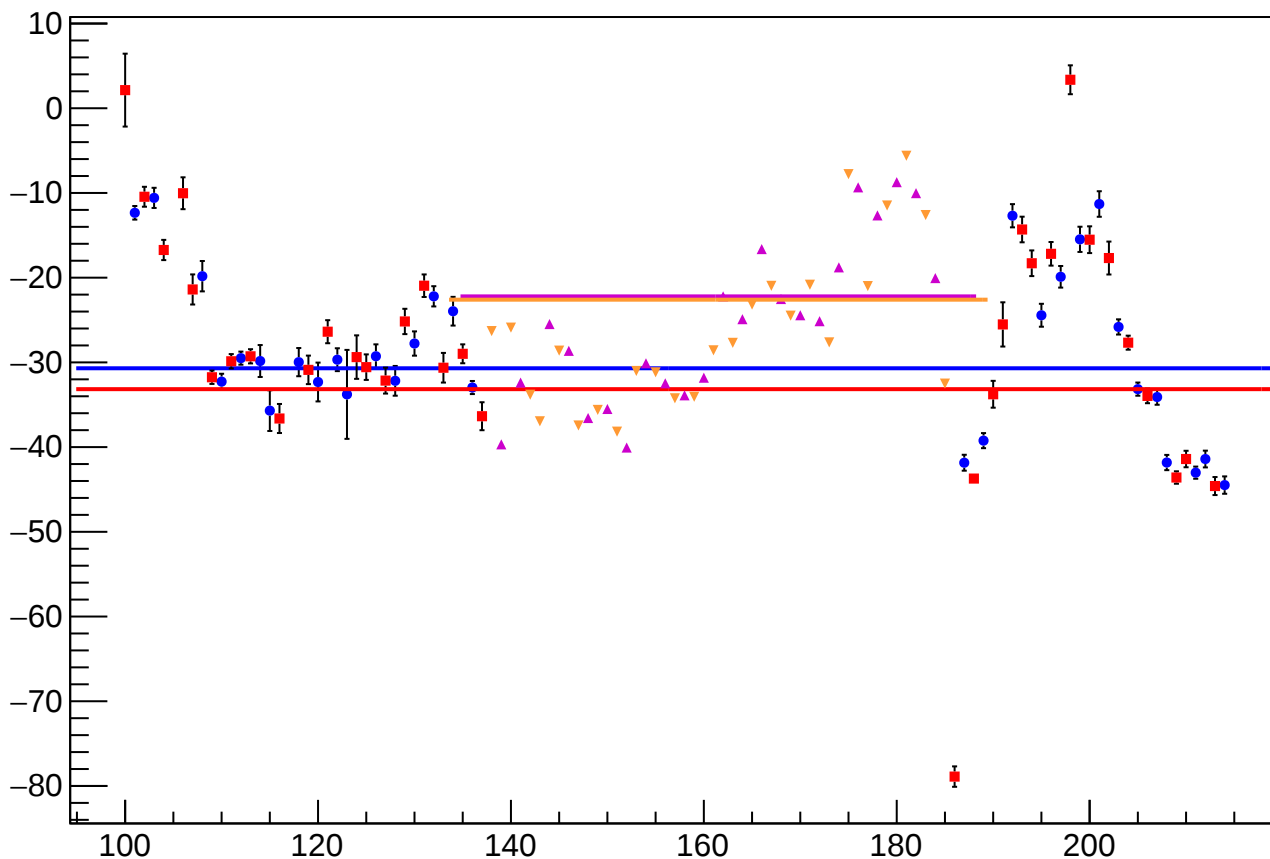
Right: 2.244 ± 0.112 $\chi^2/\text{NDF}: 2843.5/64$

In: 3.619 ± 0.053 $\chi^2/\text{NDF}: 7039.9/53$

Out: 3.559 ± 0.052 $\chi^2/\text{NDF}: 9044.8/58$

All: 3.589 ± 0.037 $\chi^2/\text{NDF}: 16085.4/112$

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -30.695+/-0.199 χ^2/NDF : 2505.8/30

Left Out: -22.598+/-0.071 χ^2/NDF :19933.4/24

Right Out: -33.160+/-0.193 χ^2/NDF : 4539.1/33

Left In: -22.209+/-0.072 χ^2/NDF :17627.4/22

Left: -22.406+/-0.050 χ^2/NDF : 37575.6/47

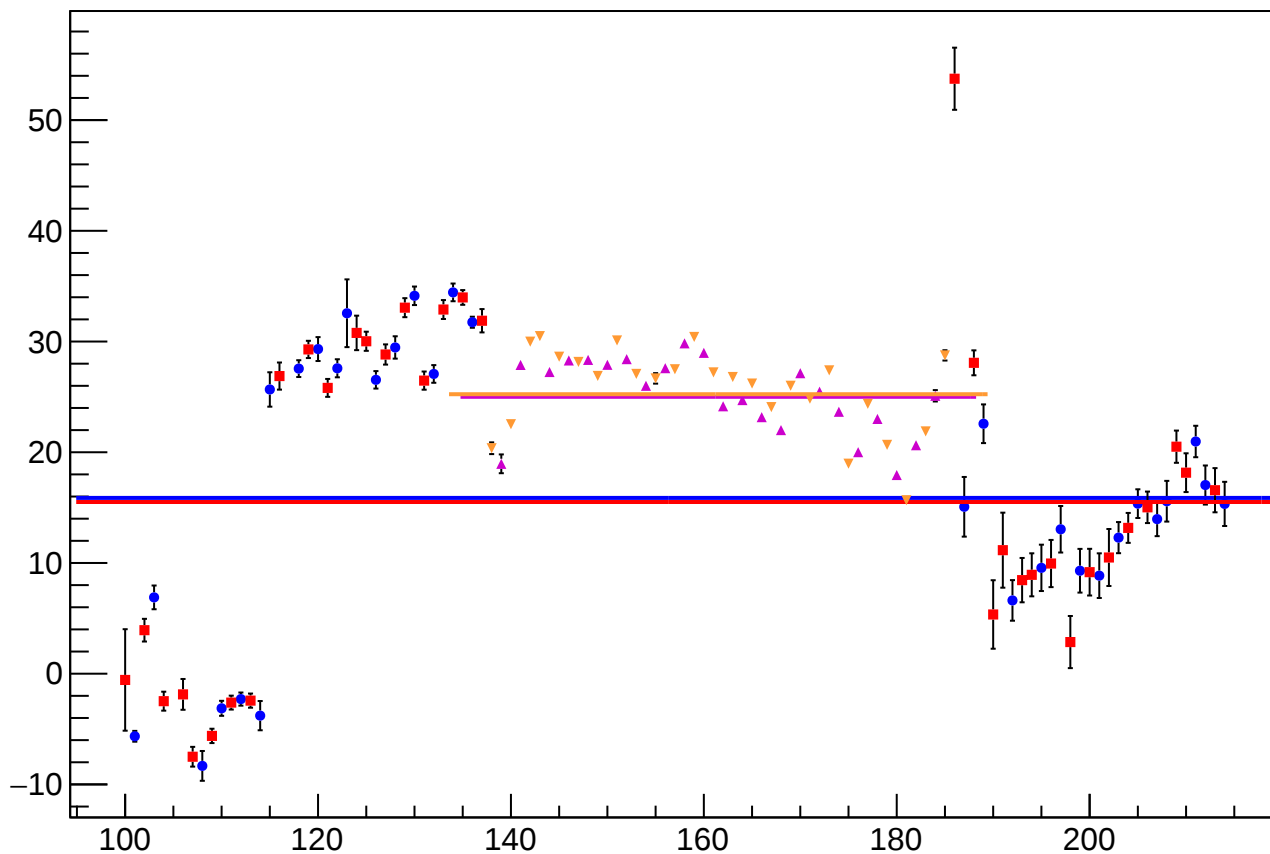
Right: -31.964+/-0.139 χ^2/NDF : 7123.9/64

In: -23.182+/-0.067 χ^2/NDF :21744.2/53

Out: -23.846+/-0.066 χ^2/NDF :27110.2/58

All: -23.519+/-0.047 χ^2/NDF : 48903.7/112

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.877 $\pm$ 0.178 χ^2 /NDF: 7639.7/30

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

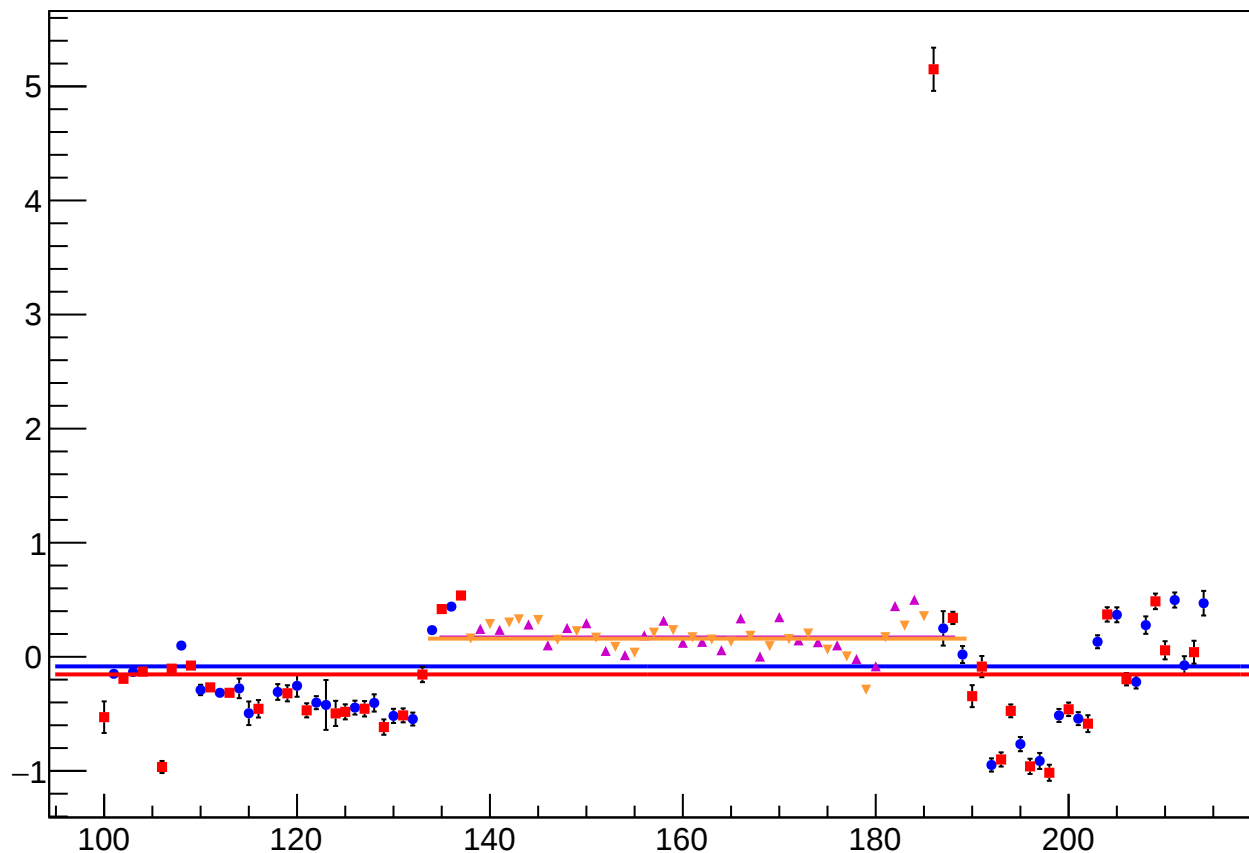
Right: 15.696 $\pm$ 0.127 χ^2 /NDF: 15317.4/64

In: 23.966 $\pm$ 0.060 χ^2 /NDF:12697.6/53

Out: 24.212 $\pm$ 0.059 χ^2 /NDF:14018.3/58

All: 24.091 $\pm$ 0.042 χ^2 /NDF: 26724.4/112

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.084 ± 0.009 χ^2/NDF : 1836.2/30

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

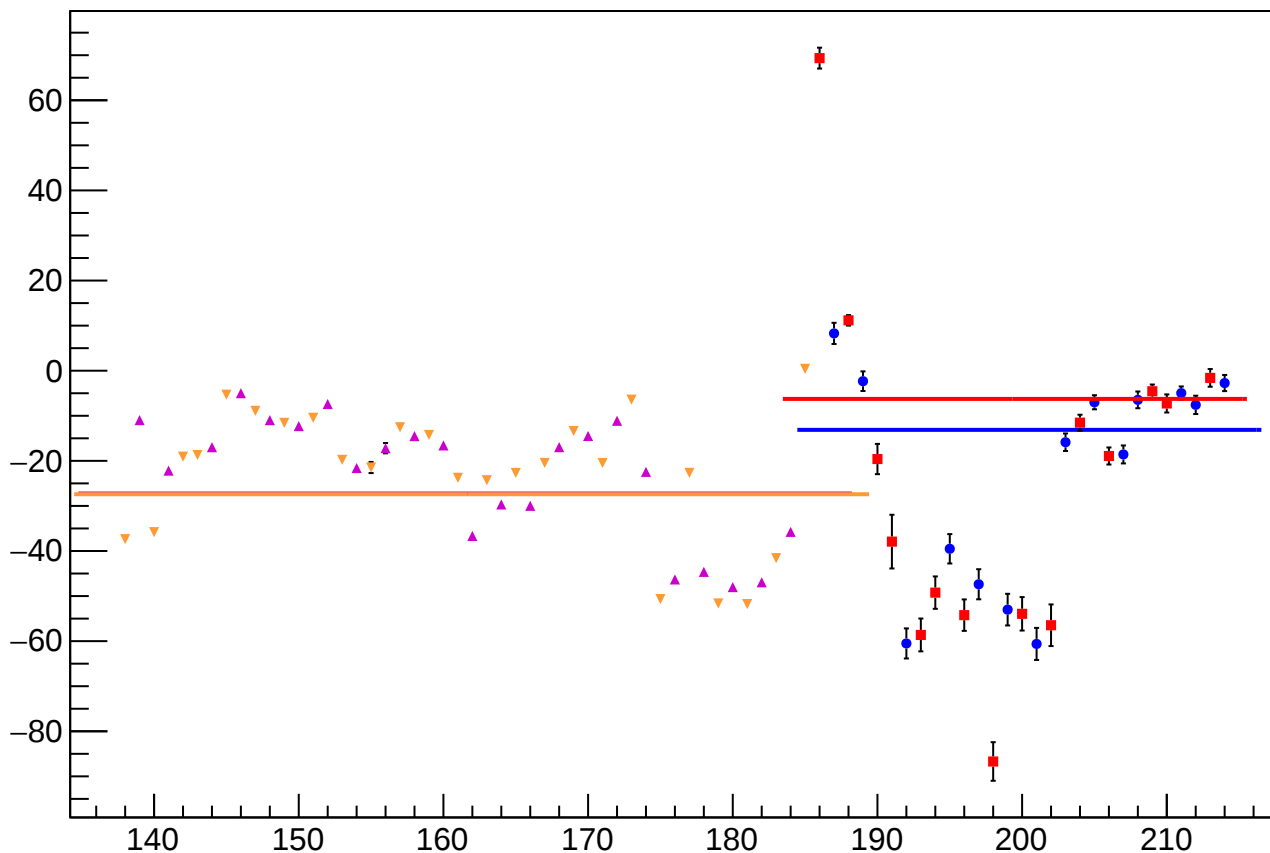
Right: -0.119 ± 0.006 χ^2/NDF : 4605.5/64

In: 0.145 ± 0.003 χ^2/NDF : 4974.0/53

Out: 0.130 ± 0.003 χ^2/NDF : 5710.3/58

All: 0.137 ± 0.002 χ^2/NDF : 10697.9/112

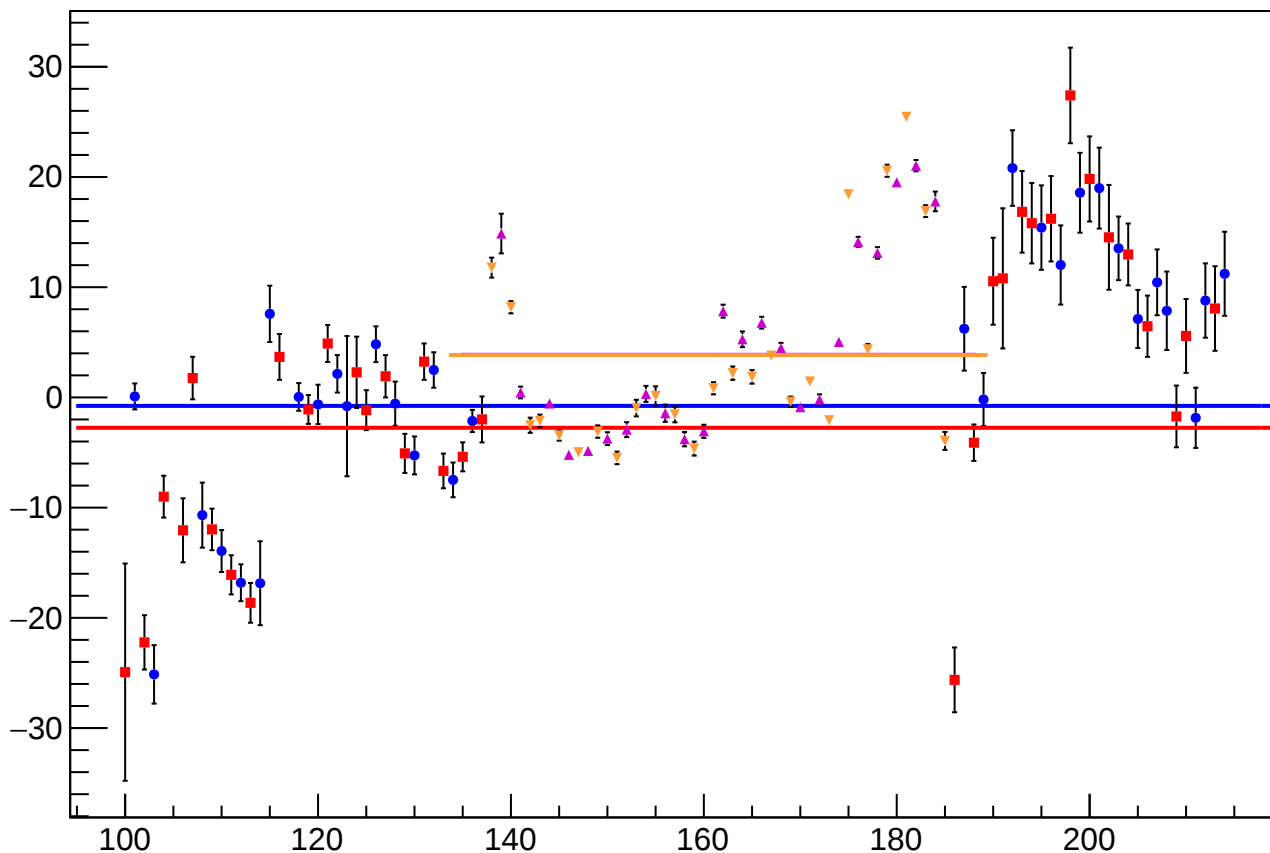
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -13.123 ± 0.572 $\chi^2/\text{NDF}: 896.9/13$
 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: -9.714 ± 0.406 $\chi^2/\text{NDF}: 3538.2/28$
 In: -26.452 ± 0.135 $\chi^2/\text{NDF}: 12777.1/36$
 Out: -26.279 ± 0.133 $\chi^2/\text{NDF}: 18695.9/39$
 All: -26.364 ± 0.095 $\chi^2/\text{NDF}: 31473.8/76$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.769 ± 0.371 χ^2/NDF : 513.5/30

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

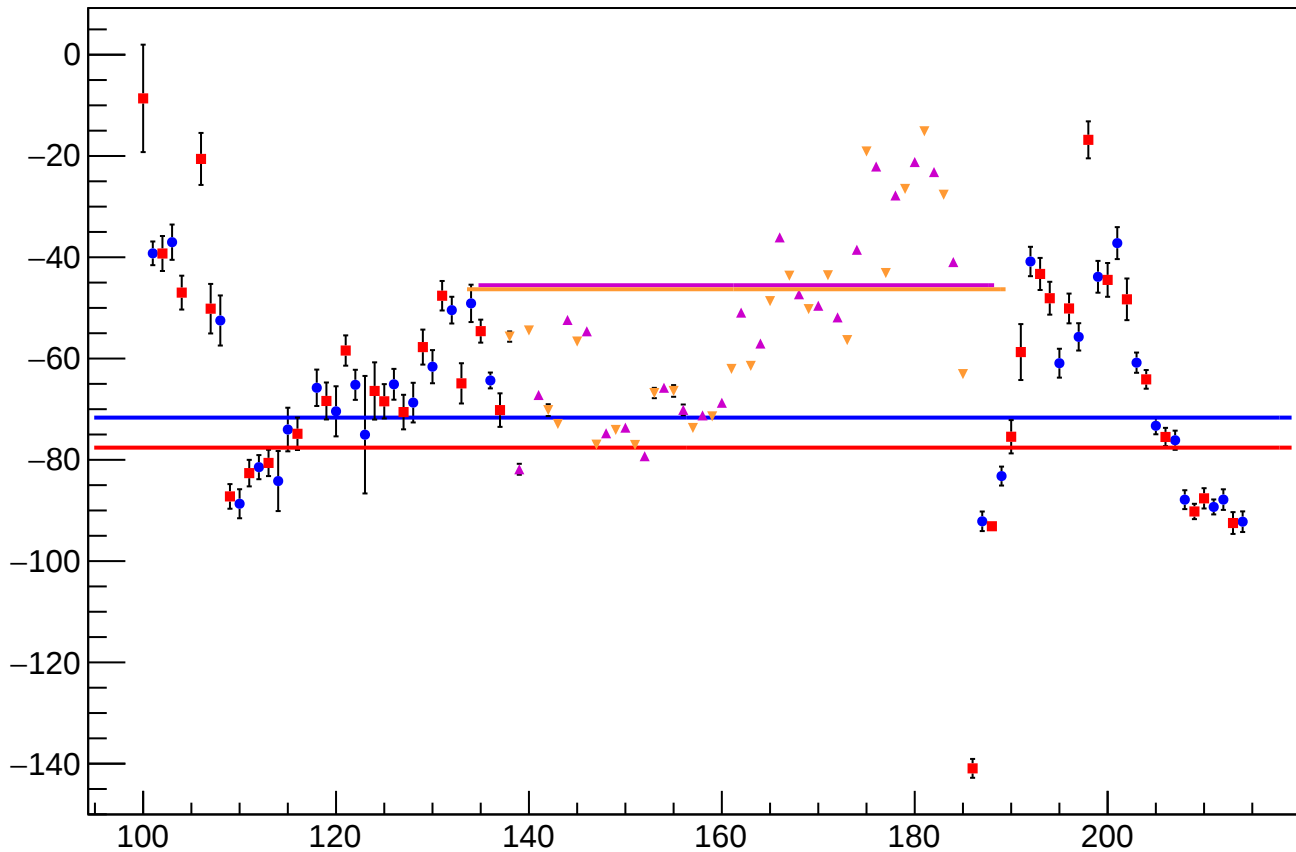
Right: -1.740 ± 0.265 χ^2/NDF : 1152.9/64

In: 3.484 ± 0.107 χ^2/NDF : 6080.8/53

Out: 3.335 ± 0.105 χ^2/NDF : 7844.5/58

All: 3.408 ± 0.075 χ^2/NDF : 13926.4/112

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -71.661 $\pm$ 0.444 χ^2 /NDF: 1438.8/30

Left Out: -46.318 $\pm$ 0.138 χ^2 /NDF: 20134.6/24

Right Out: -77.591 $\pm$ 0.432 χ^2 /NDF: 3098.9/33

Left In: -45.522 $\pm$ 0.140 χ^2 /NDF: 17525.4/22

Left: -45.925 $\pm$ 0.098 χ^2 /NDF: 37676.5/47

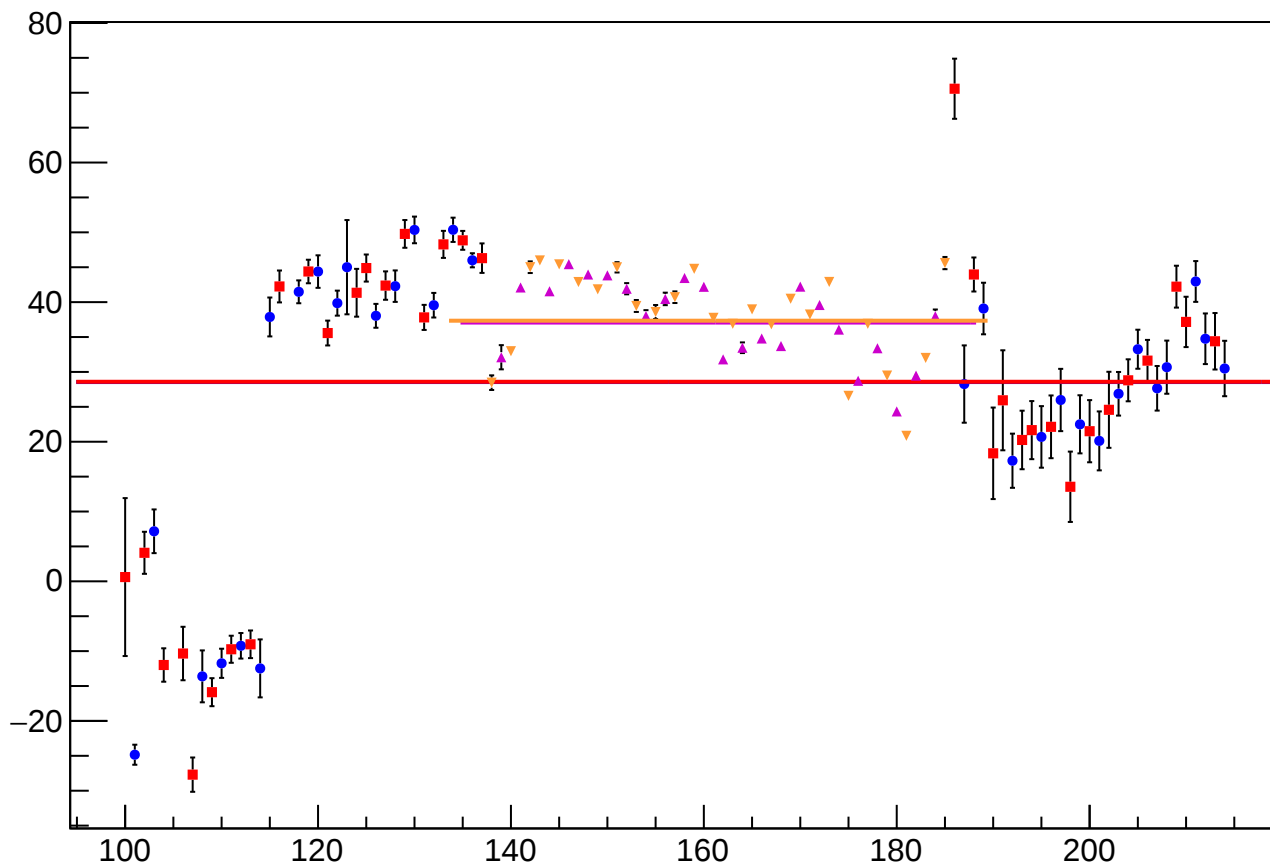
Right: -74.708 $\pm$ 0.310 χ^2 /NDF: 4629.2/64

In: -47.875 $\pm$ 0.133 χ^2 /NDF: 22113.4/53

Out: -49.210 $\pm$ 0.131 χ^2 /NDF: 27987.0/58

All: -48.552 $\pm$ 0.094 χ^2 /NDF: 50151.3/112

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.550 $\pm$ 0.417 χ^2 /NDF: 3368.5/30

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

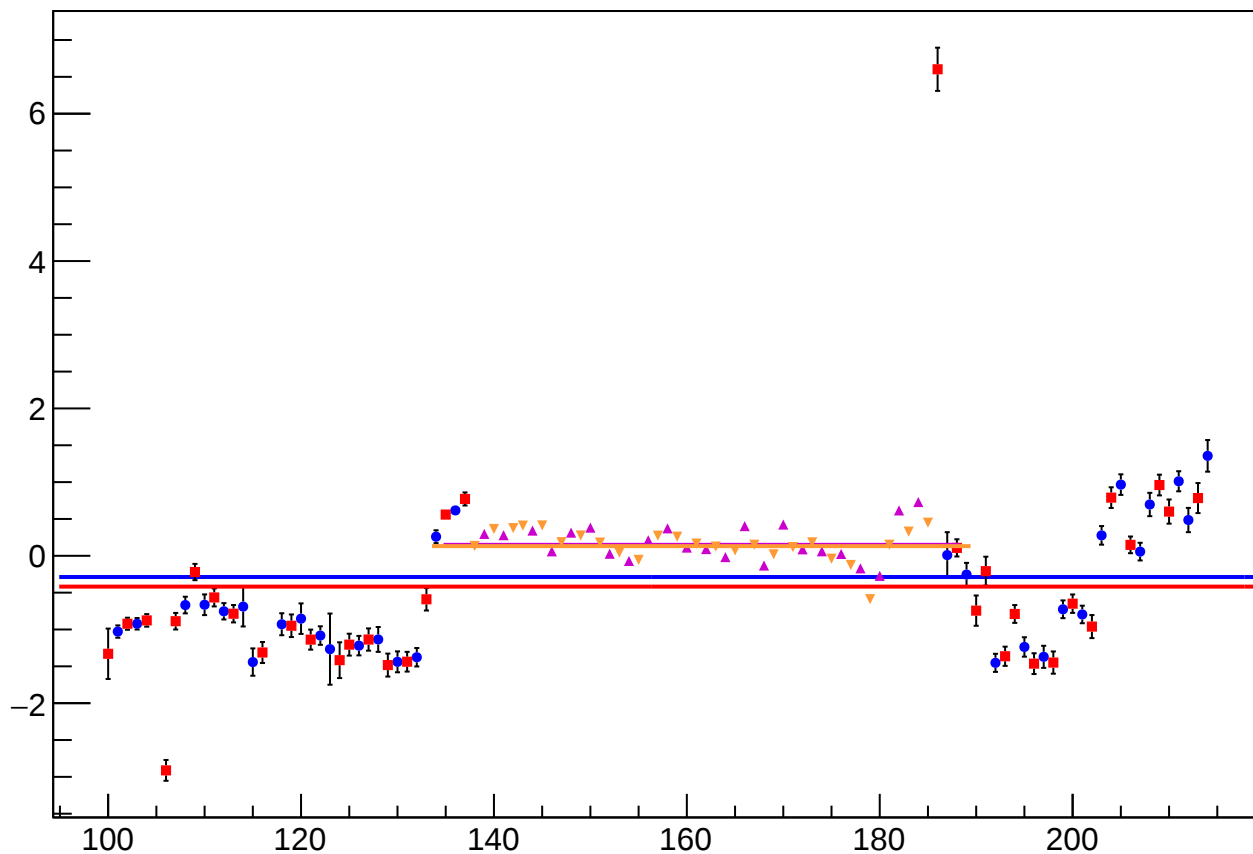
Right: 28.570 $\pm$ 0.300 χ^2 /NDF: 6593.6/64

In: 36.369 $\pm$ 0.120 χ^2 /NDF:6149.0/53

Out: 36.684 $\pm$ 0.118 χ^2 /NDF:6754.7/58

All: 36.529 $\pm$ 0.084 χ^2 /NDF: 12907.2/112

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.288 ± 0.021 χ^2/NDF : 1557.9/30

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

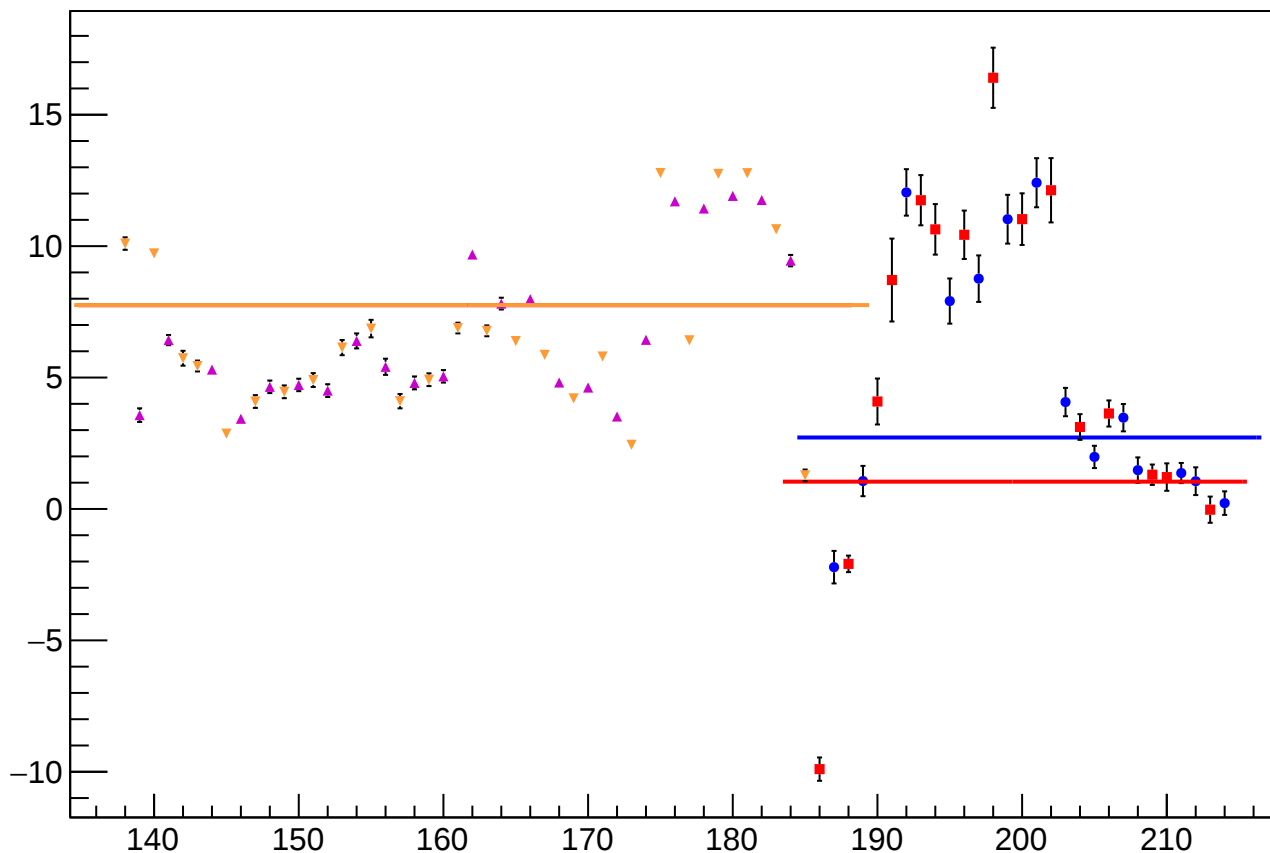
Right: -0.352 ± 0.015 χ^2/NDF : 3794.2/64

In: 0.118 ± 0.006 χ^2/NDF : 3768.8/53

Out: 0.095 ± 0.005 χ^2/NDF : 4265.8/58

All: 0.107 ± 0.004 χ^2/NDF : 8043.1/112

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.719 ± 0.150 $\chi^2/\text{NDF}: 525.3/13$

Left Out: 7.757 ± 0.034 $\chi^2/\text{NDF}: 11728.6/24$

Right Out: 1.039 ± 0.149 $\chi^2/\text{NDF}: 1486.2/14$

Left In: 7.753 ± 0.035 $\chi^2/\text{NDF}: 8345.2/22$

Left: 7.755 ± 0.025 $\chi^2/\text{NDF}: 20073.8/47$

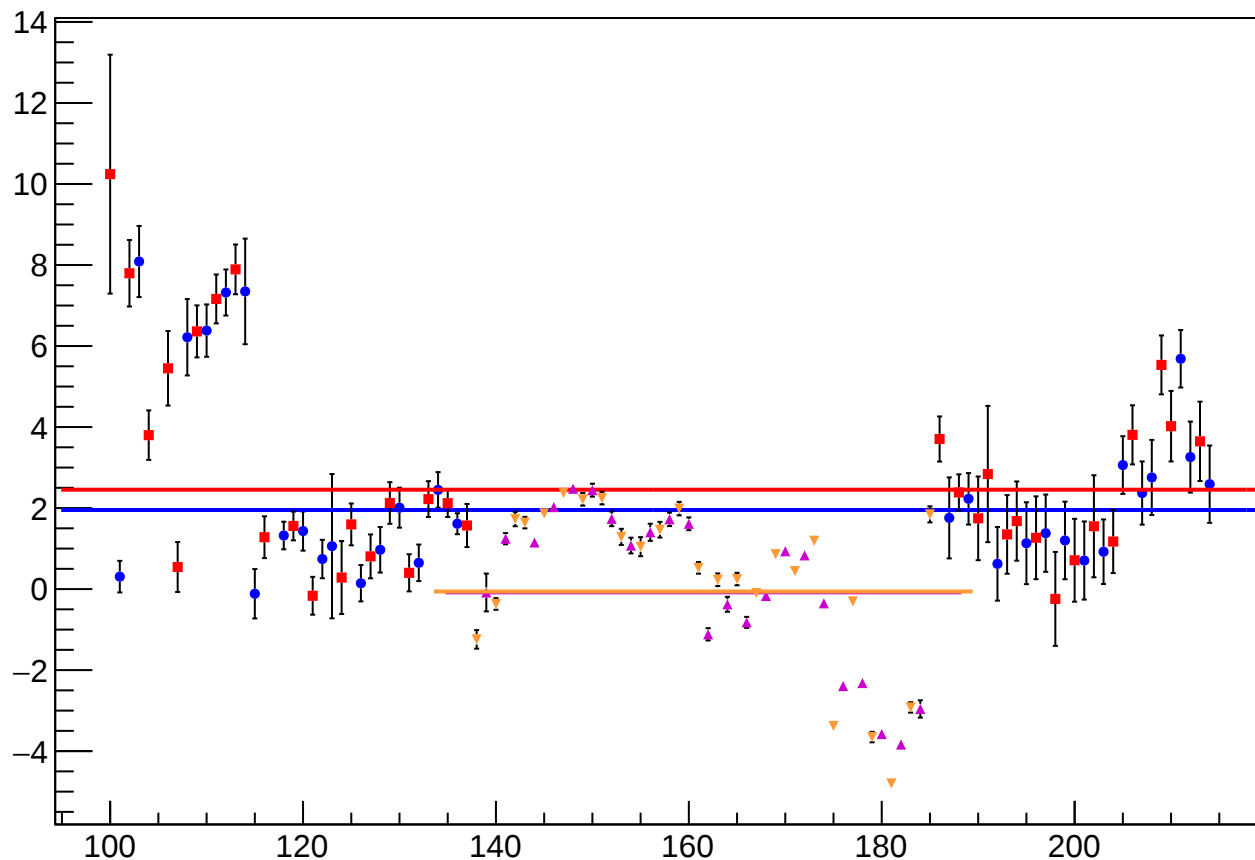
Right: 1.868 ± 0.106 $\chi^2/\text{NDF}: 2074.6/28$

In: 7.494 ± 0.034 $\chi^2/\text{NDF}: 9931.6/36$

Out: 7.416 ± 0.033 $\chi^2/\text{NDF}: 15155.1/39$

All: 7.454 ± 0.024 $\chi^2/\text{NDF}: 25089.3/76$

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.952 $\pm$ 0.104 χ^2 /NDF: 335.1/30

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

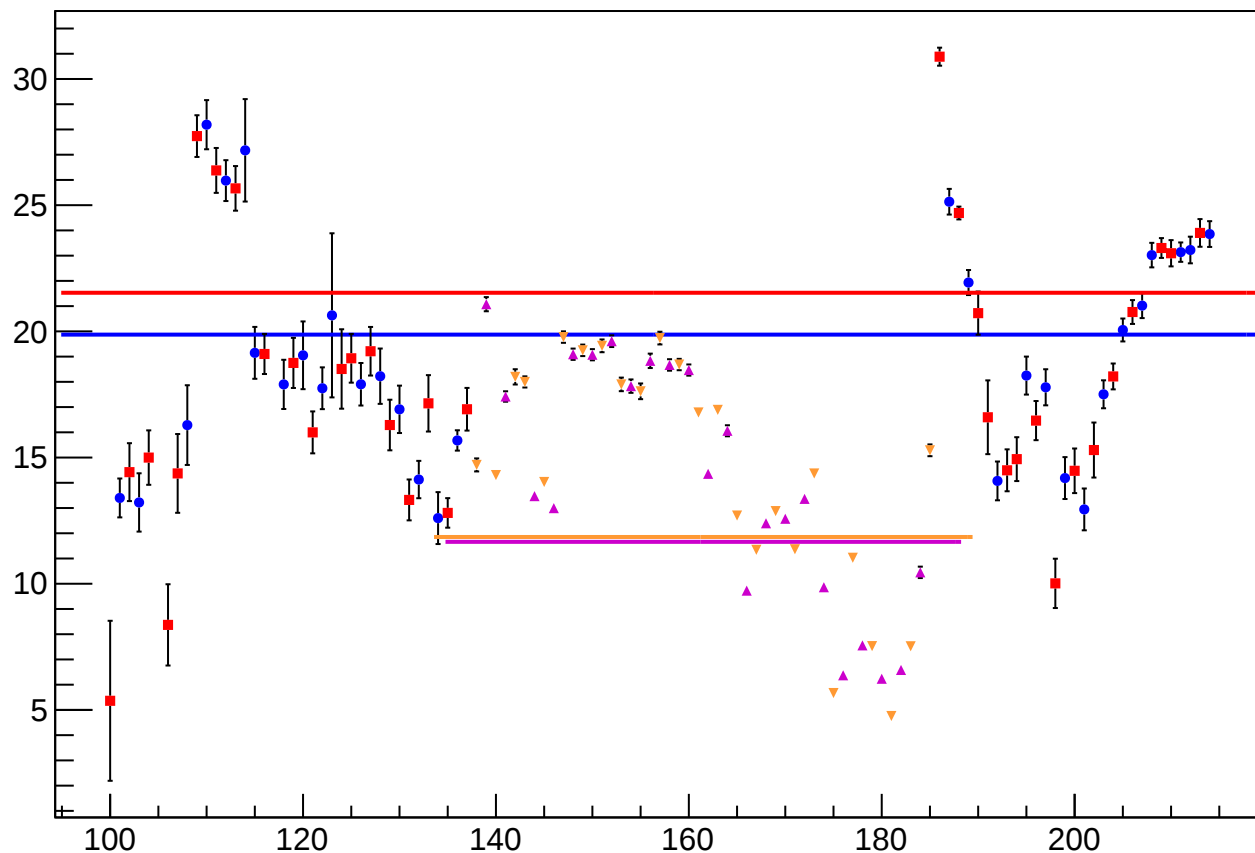
Right: 2.198 $\pm$ 0.074 χ^2 /NDF: 729.0/64

In: 0.059 $\pm$ 0.027 χ^2 /NDF:5669.9/53

Out: 0.102 $\pm$ 0.027 χ^2 /NDF:6977.5/58

All: 0.081 $\pm$ 0.019 χ^2 /NDF: 12648.7/112

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.871 $\pm$ 0.120 χ^2 /NDF: 1050.1/30

Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24

Right Out: 21.530 $\pm$ 0.115 χ^2 /NDF: 2126.3/33

Left In: 11.660 $\pm$ 0.035 χ^2 /NDF:16710.2/22

Left: 11.758 $\pm$ 0.025 χ^2 /NDF: 35874.9/47

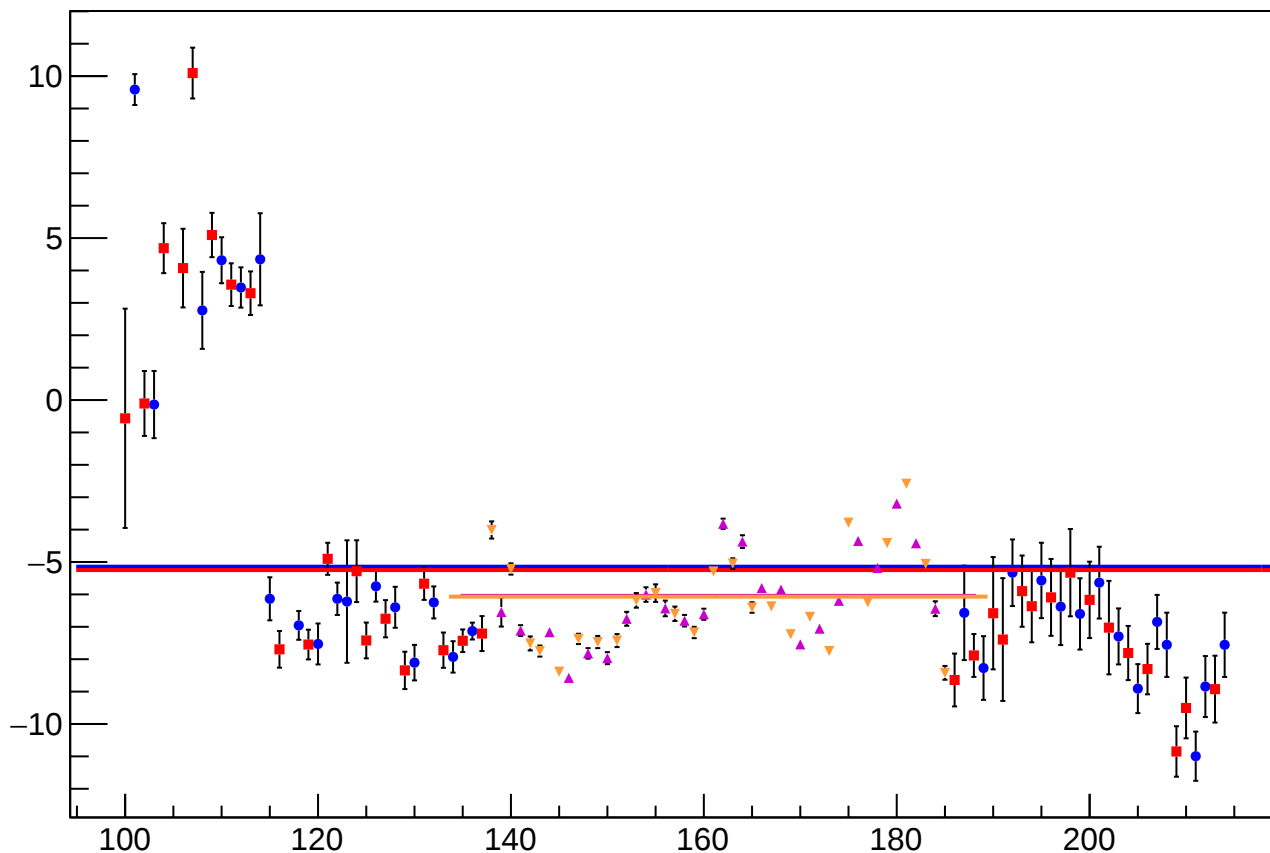
Right: 20.737 $\pm$ 0.083 χ^2 /NDF: 3275.4/64

In: 12.306 $\pm$ 0.034 χ^2 /NDF:22044.8/53

Out: 12.657 $\pm$ 0.033 χ^2 /NDF:27746.3/58

All: 12.485 $\pm$ 0.024 χ^2 /NDF: 49846.0/112

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.145 ± 0.117 $\chi^2/\text{NDF}: 1743.5/30$

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 $\chi^2/\text{NDF}: 4965.7/47$

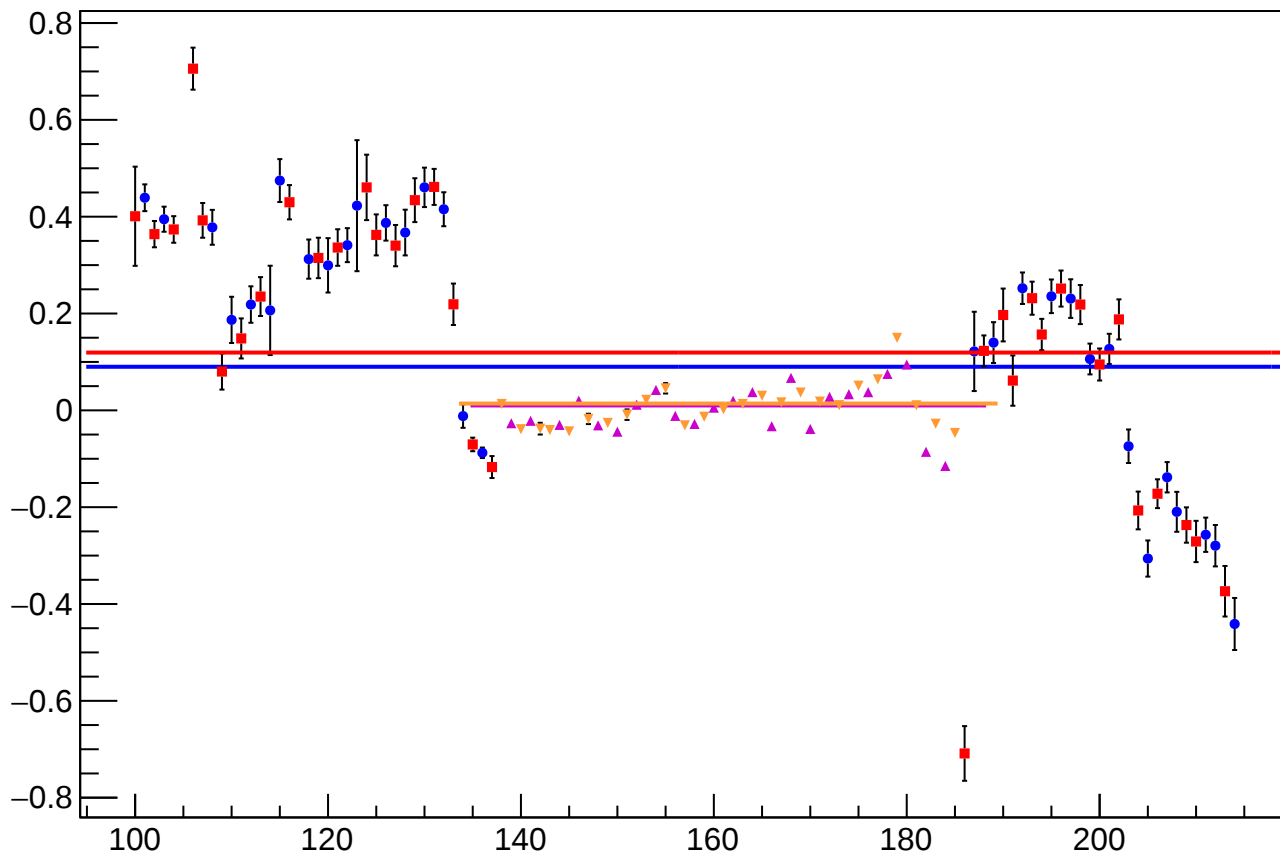
Right: -5.195 ± 0.084 $\chi^2/\text{NDF}: 3266.3/64$

In: -5.983 ± 0.031 $\chi^2/\text{NDF}: 4092.7/53$

Out: -6.017 ± 0.030 $\chi^2/\text{NDF}: 4237.3/58$

All: -6.000 ± 0.021 $\chi^2/\text{NDF}: 8330.7/112$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.090 $\pm$ 0.006 χ^2 /NDF: 1679.6/30

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

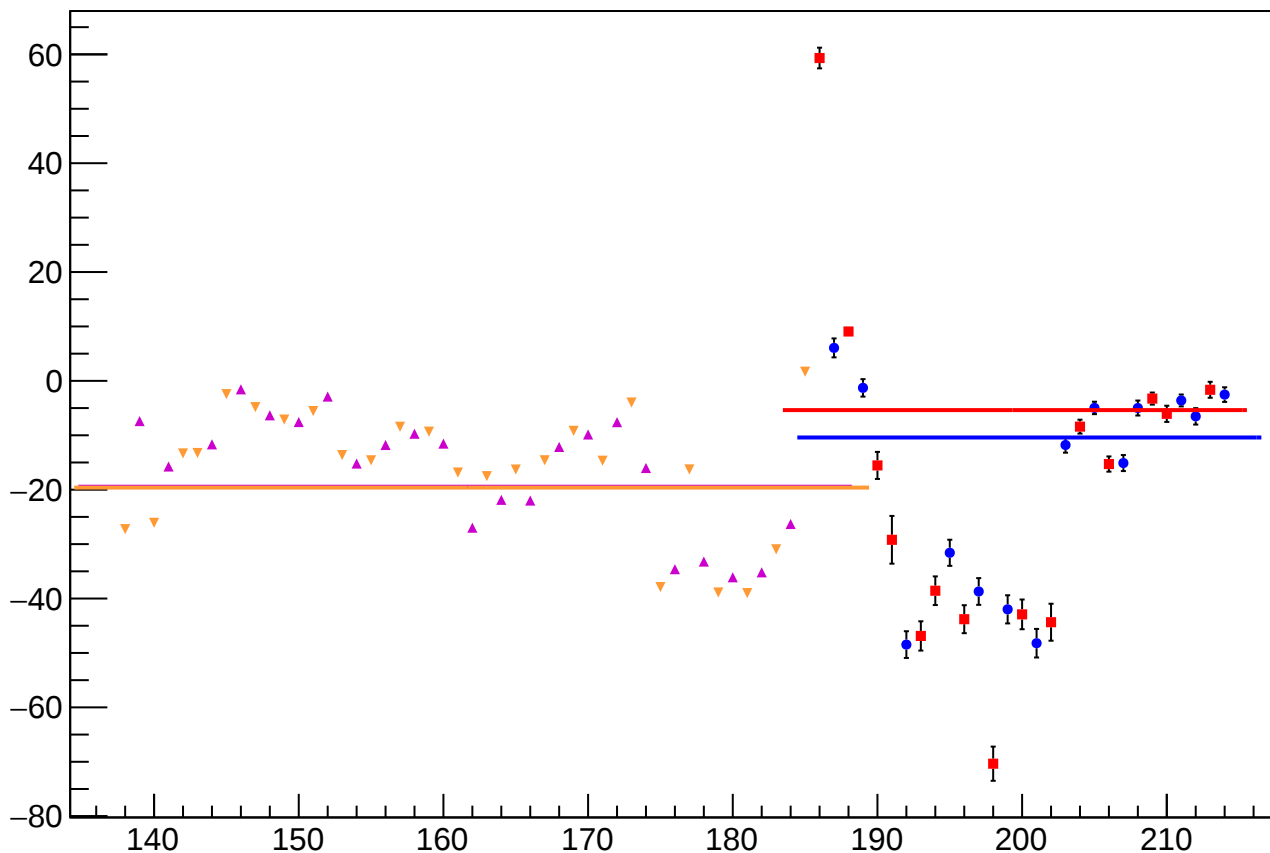
Right: 0.104 $\pm$ 0.004 χ^2 /NDF: 3450.7/64

In: 0.015 $\pm$ 0.001 χ^2 /NDF: 3075.6/53

Out: 0.020 $\pm$ 0.001 χ^2 /NDF: 3011.3/58

All: 0.017 $\pm$ 0.001 χ^2 /NDF: 6093.2/112

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.406 ± 0.422 $\chi^2/\text{NDF}: 1058.0/13$
 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 $\chi^2/\text{NDF}: 28045.6/47$

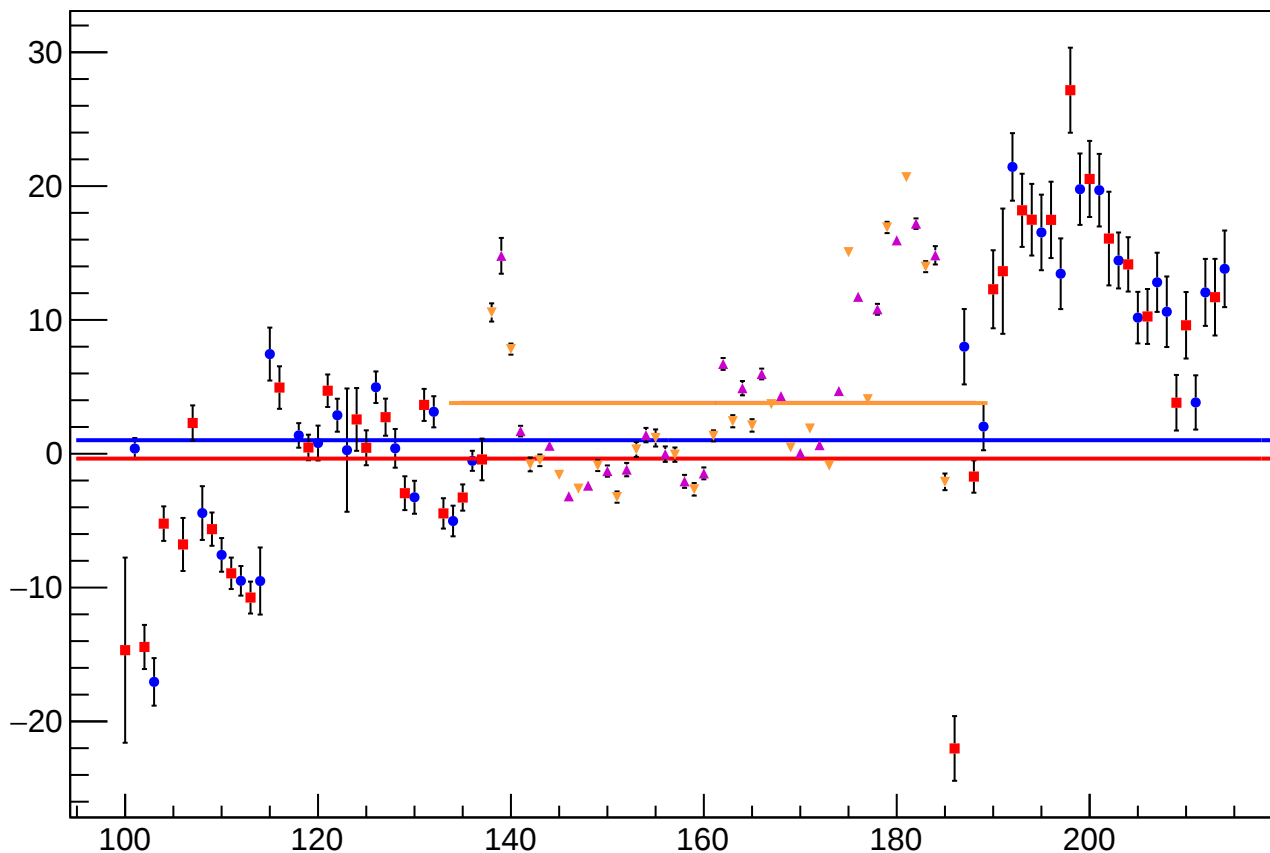
Right: -7.915 ± 0.300 $\chi^2/\text{NDF}: 4058.9/28$

In: -18.923 ± 0.102 $\chi^2/\text{NDF}: 13773.1/36$

Out: -18.825 ± 0.100 $\chi^2/\text{NDF}: 19744.4/39$

All: -18.873 ± 0.072 $\chi^2/\text{NDF}: 33518.0/76$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.012 $\pm$ 0.266 χ^2 /NDF: 705.8/30

Left Out: 3.788 $\pm$ 0.082 χ^2 /NDF: 7150.5/24

Right Out: -0.362 $\pm$ 0.271 χ^2 /NDF: 832.2/33

Left In: 3.799 $\pm$ 0.084 χ^2 /NDF: 5517.0/22

Left: 3.793 $\pm$ 0.059 χ^2 /NDF: 12667.5/47

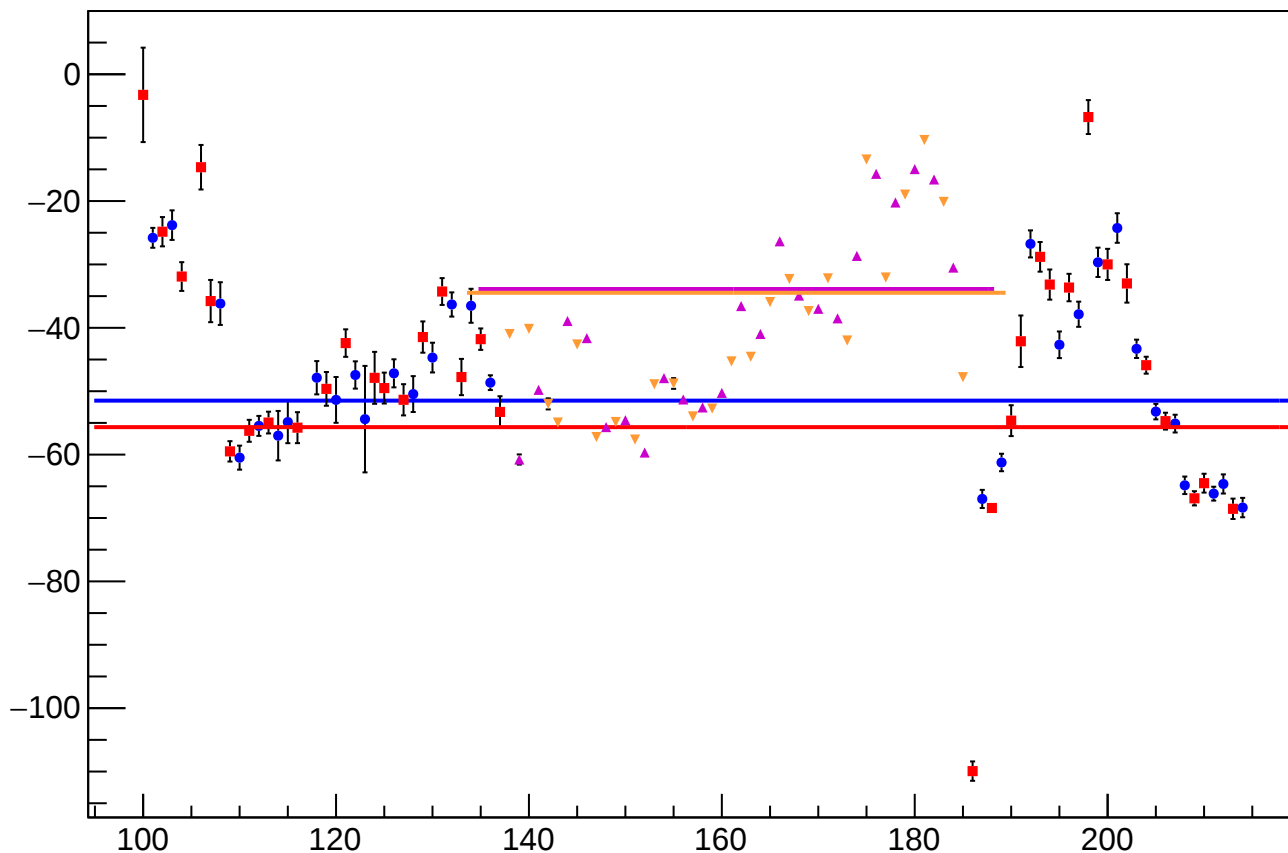
Right: 0.339 $\pm$ 0.190 χ^2 /NDF: 1551.1/64

In: 3.548 $\pm$ 0.080 χ^2 /NDF: 6323.0/53

Out: 3.439 $\pm$ 0.079 χ^2 /NDF: 8197.7/58

All: 3.493 $\pm$ 0.056 χ^2 /NDF: 14521.6/112

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -51.485 ± 0.323 $\chi^2/\text{NDF}: 1682.2/30$

Left Out: -34.471 ± 0.104 $\chi^2/\text{NDF}: 20196.3/24$

Right Out: -55.667 ± 0.315 $\chi^2/\text{NDF}: 3480.4/33$

Left In: -33.875 ± 0.105 $\chi^2/\text{NDF}: 17638.7/22$

Left: -34.177 ± 0.074 $\chi^2/\text{NDF}: 37851.2/47$

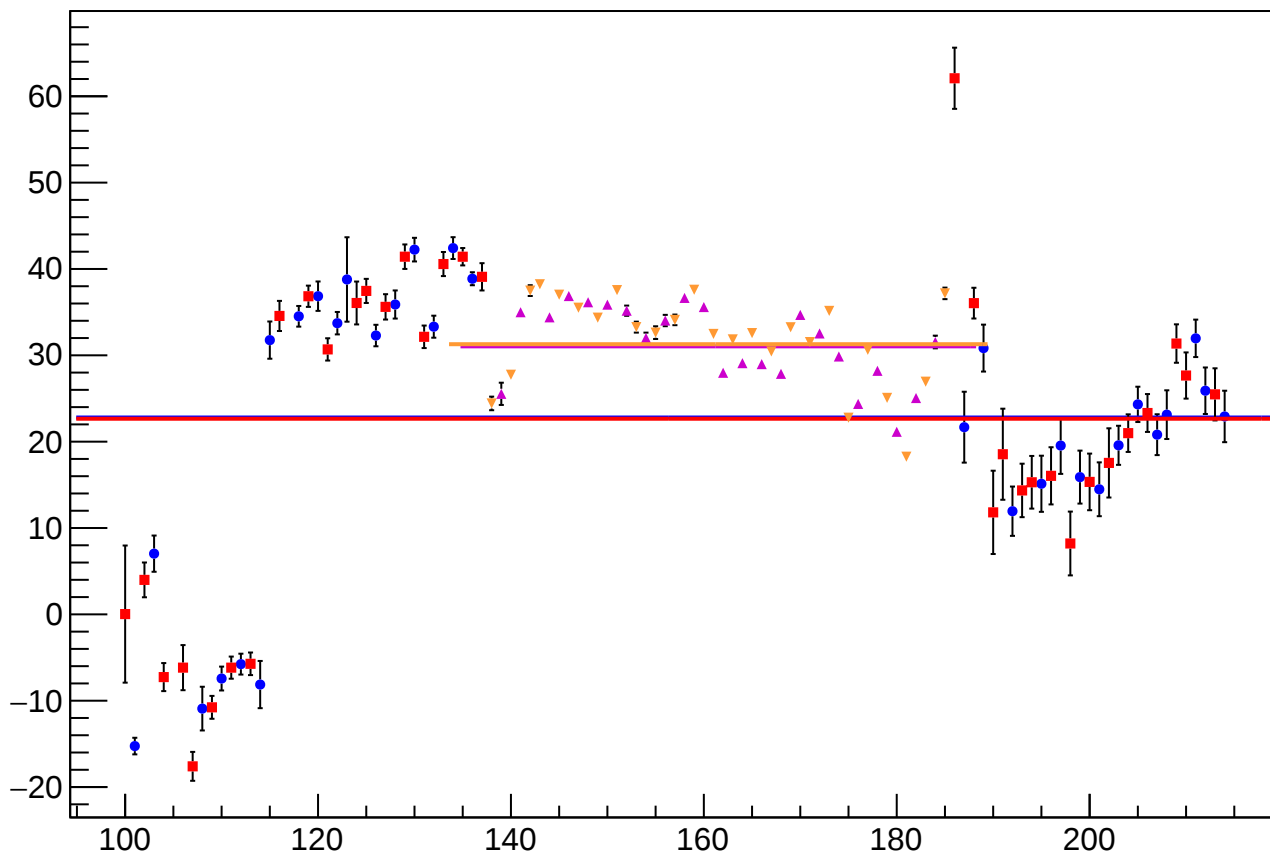
Right: -53.632 ± 0.225 $\chi^2/\text{NDF}: 5248.6/64$

In: -35.566 ± 0.100 $\chi^2/\text{NDF}: 22008.2/53$

Out: -36.558 ± 0.099 $\chi^2/\text{NDF}: 27771.1/58$

All: -36.069 ± 0.070 $\chi^2/\text{NDF}: 49829.1/112$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.797 $\pm$ 0.299 χ^2 /NDF: 4381.8/30

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

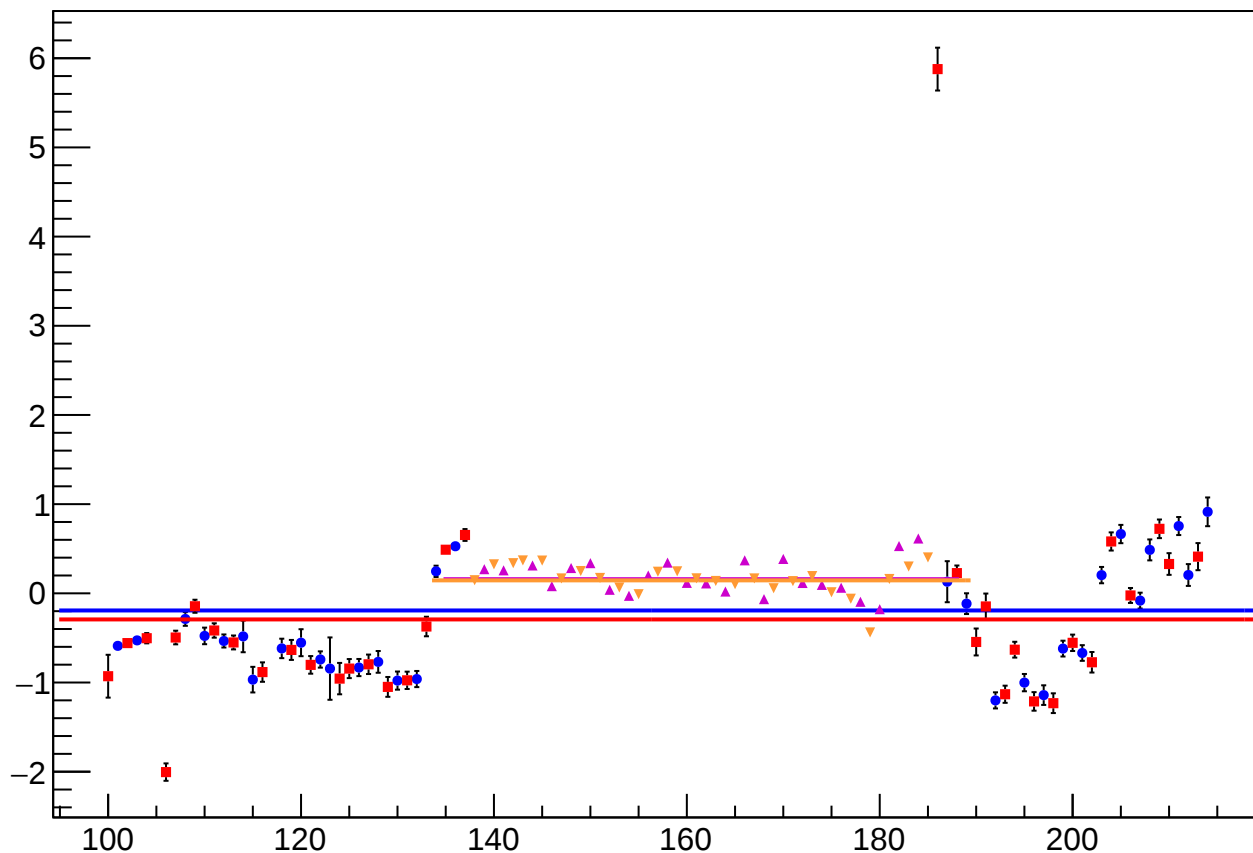
Right: 22.729 $\pm$ 0.215 χ^2 /NDF: 8660.1/64

In: 30.296 $\pm$ 0.090 χ^2 /NDF:7552.5/53

Out: 30.577 $\pm$ 0.089 χ^2 /NDF:8341.4/58

All: 30.438 $\pm$ 0.063 χ^2 /NDF: 15898.9/112

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.192 ± 0.015 χ^2/NDF : 1588.4/30

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.293 ± 0.015 χ^2/NDF : 2370.8/33

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

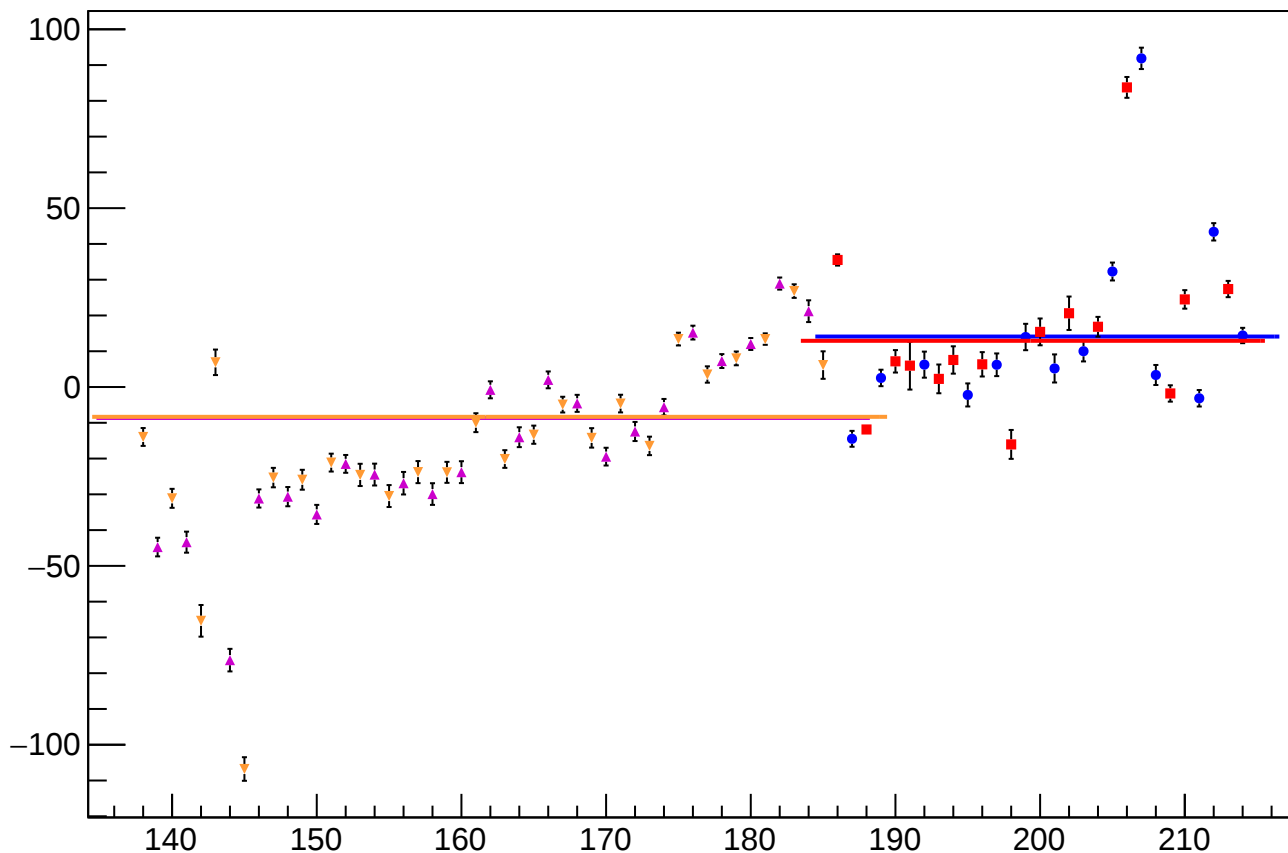
Right: -0.242 ± 0.011 χ^2/NDF : 3981.3/64

In: 0.132 ± 0.004 χ^2/NDF : 4103.2/53

Out: 0.114 ± 0.004 χ^2/NDF : 4717.3/58

All: 0.123 ± 0.003 χ^2/NDF : 8830.3/112

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.109+/-0.726 χ^2/NDF : 1181.1/13

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

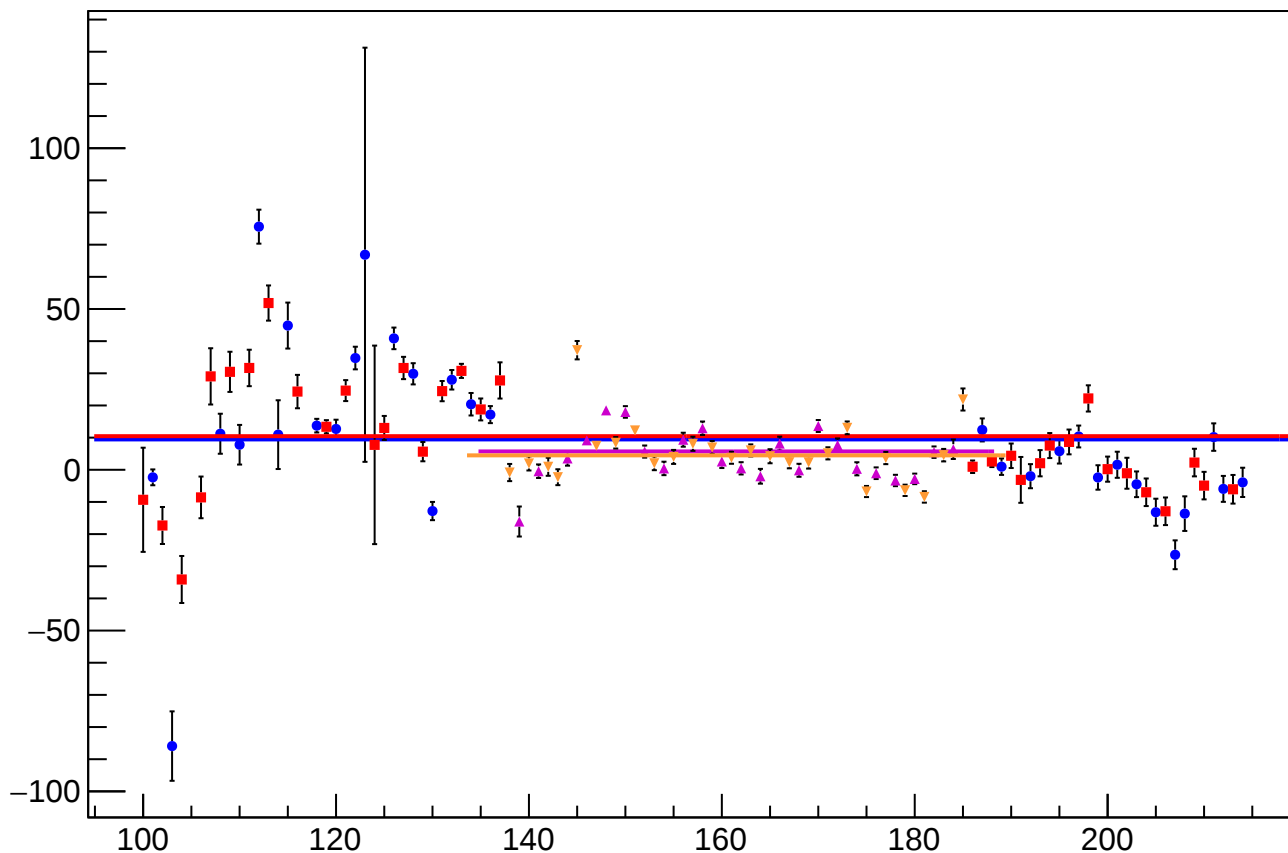
Right: 13.449+/-0.485 χ^2/NDF : 2557.2/28

In: -1.182+/-0.416 χ^2/NDF : 4065.8/36

Out: -0.459+/-0.396 χ^2/NDF : 4271.2/39

All: -0.803+/-0.287 χ^2/NDF : 8338.6/76

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.441 ± 0.658 χ^2/NDF : 765.6/30

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

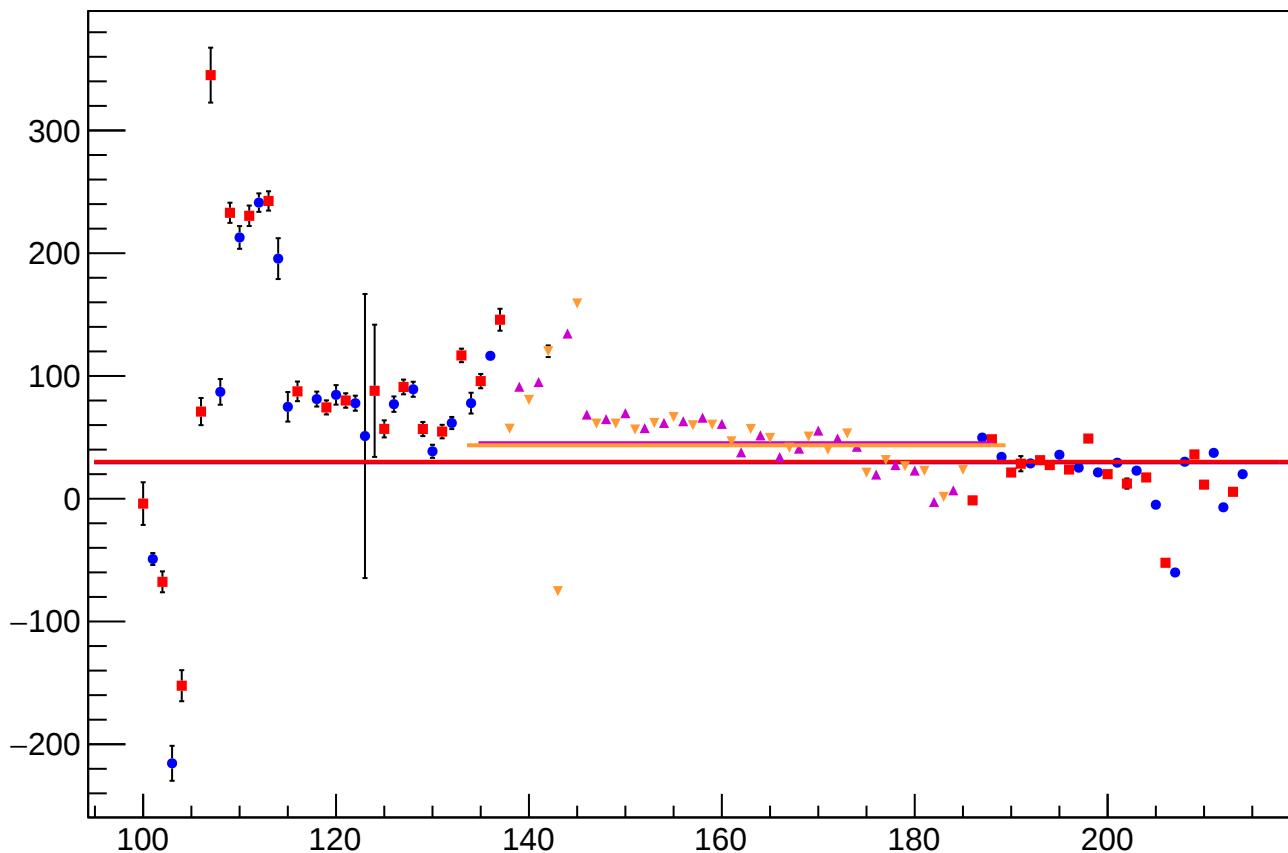
Right: 9.971 ± 0.453 χ^2/NDF : 1266.3/64

In: 6.727 ± 0.344 χ^2/NDF : 1113.0/53

Out: 6.168 ± 0.332 χ^2/NDF : 936.7/58

All: 6.438 ± 0.239 χ^2/NDF : 2051.0/112

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.665 $\pm$ 0.629 χ^2 /NDF: 4308.8/30

Left Out: 43.524 $\pm$ 0.498 χ^2 /NDF:3830.7/24

Right Out: 30.098 $\pm$ 0.544 χ^2 /NDF: 5446.1/33

Left In: 45.211 $\pm$ 0.504 χ^2 /NDF:3048.5/22

Left: 44.358 $\pm$ 0.354 χ^2 /NDF: 6884.8/47

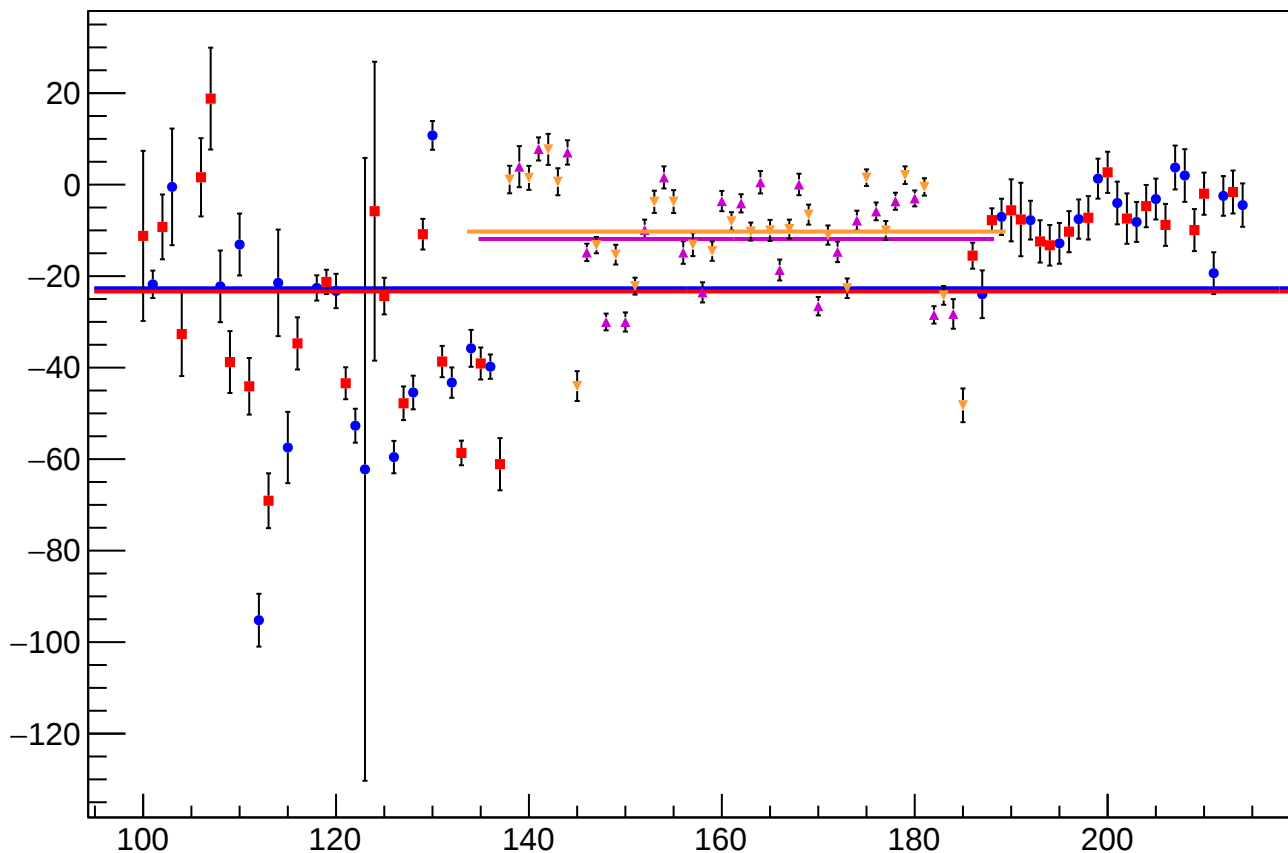
Right: 29.913 $\pm$ 0.412 χ^2 /NDF: 9755.2/64

In: 39.132 $\pm$ 0.394 χ^2 /NDF:7729.0/53

Out: 37.397 $\pm$ 0.367 χ^2 /NDF:9607.9/58

All: 38.205 $\pm$ 0.269 χ^2 /NDF: 17347.3/112

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -22.656 ± 0.764 χ^2/NDF : 806.9/30

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

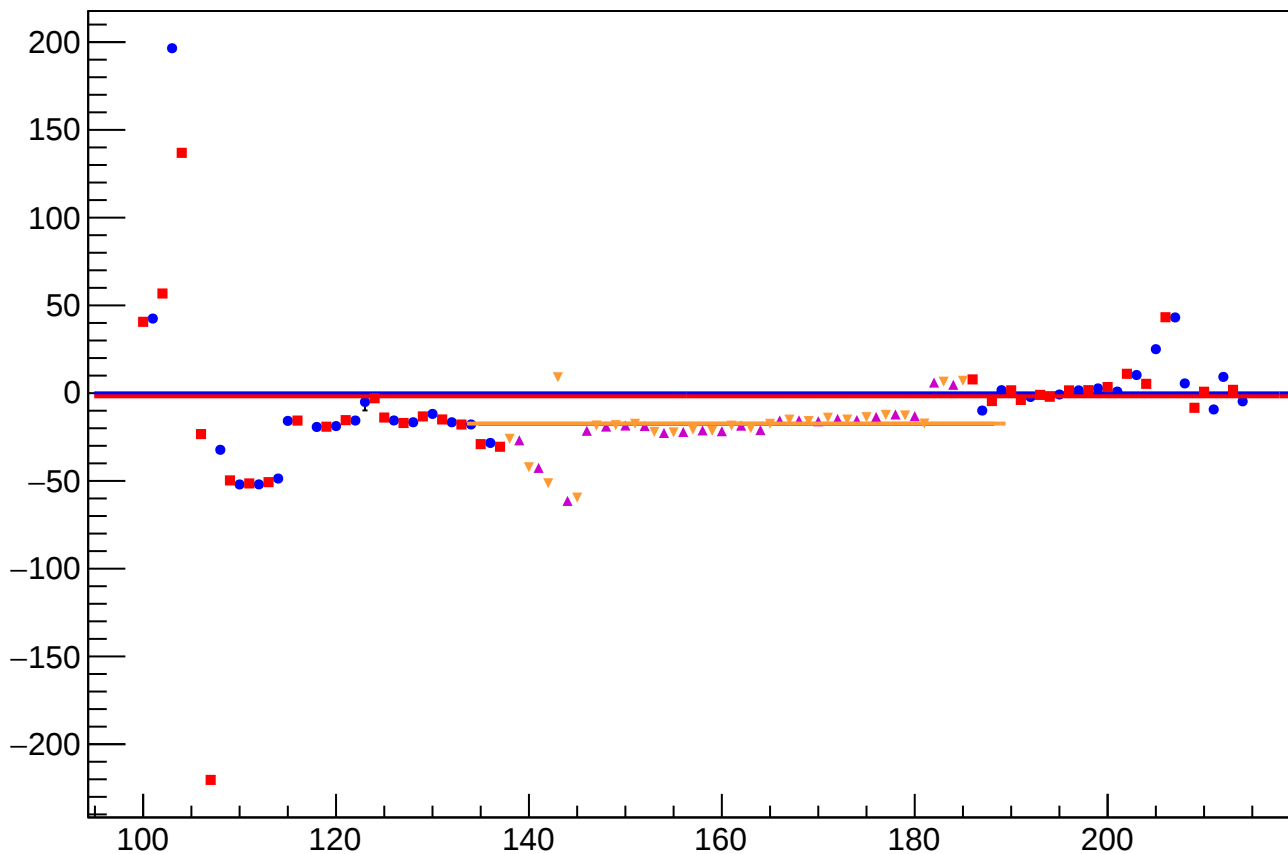
Right: -23.012 ± 0.536 χ^2/NDF : 1467.8/64

In: -14.711 ± 0.392 χ^2/NDF : 1620.0/53

Out: -13.646 ± 0.383 χ^2/NDF : 1437.9/58

All: -14.166 ± 0.274 χ^2/NDF : 3061.7/112

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.116 ± 0.036 χ^2/NDF : 678290.0/30

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.800 ± 0.035 χ^2/NDF : 672316.3/33

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

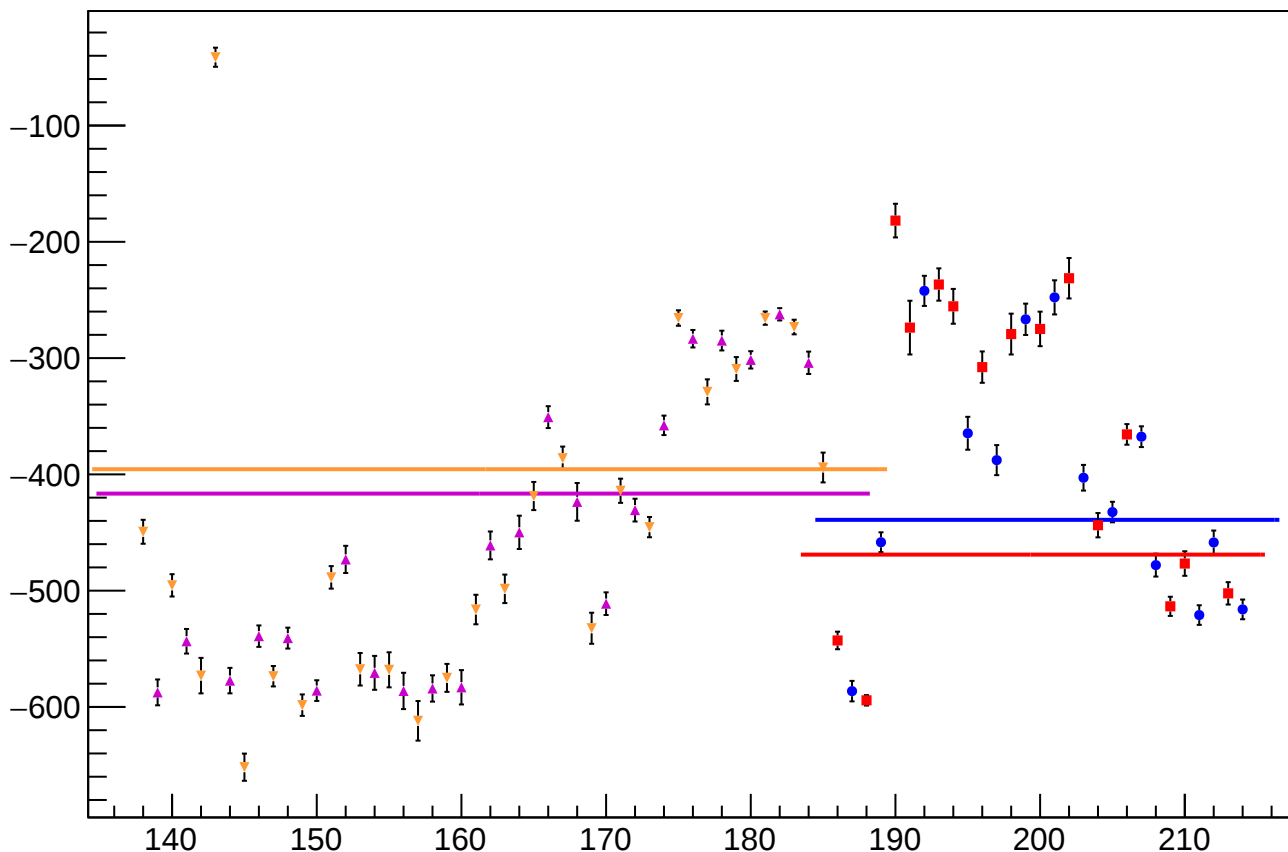
Right: -0.979 ± 0.025 χ^2/NDF : 1351734.9/64

In: -13.160 ± 0.018 χ^2/NDF : 1113527.8/53

Out: -13.395 ± 0.018 χ^2/NDF : 1144460.0/58

All: -13.280 ± 0.013 χ^2/NDF : 2258075.3/112

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -439.084 $\pm$ 2.721 χ^2/NDF : 1164.0/13

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

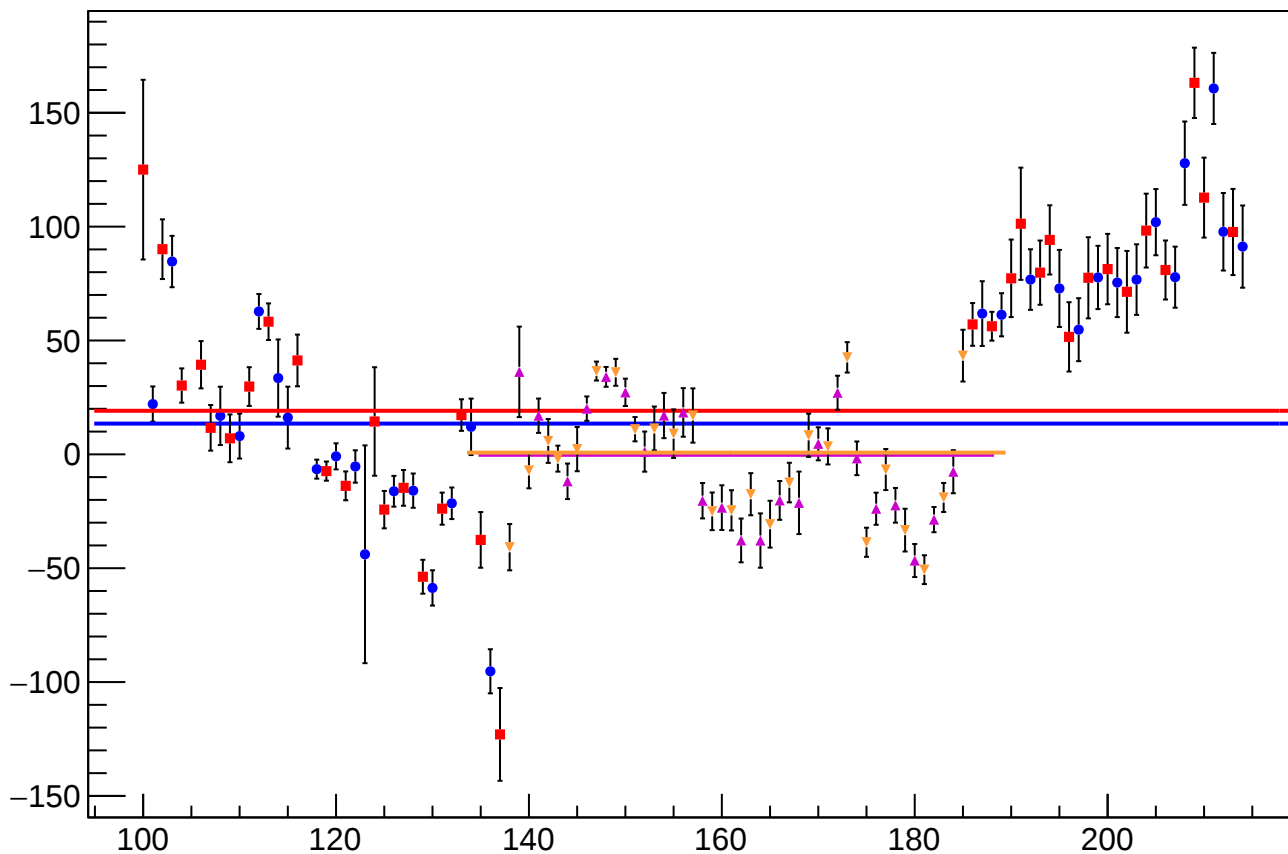
Right: -455.140 $\pm$ 1.852 χ^2/NDF : 3854.3/28

In: -424.460 $\pm$ 1.614 χ^2/NDF :5125.5/36

Out: -423.012 $\pm$ 1.546 χ^2/NDF :9100.6/39

All: -423.705 $\pm$ 1.116 χ^2/NDF : 14226.6/76

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.500+/-1.721 χ^2/NDF : 761.5/30

Left Out: 0.767+/-1.503 χ^2/NDF : 350.1/24

Right Out: 19.134+/-1.672 χ^2/NDF : 725.8/33

Left In: -0.202+/-1.575 χ^2/NDF : 260.8/22

Left: 0.305+/-1.087 χ^2/NDF : 611.1/47

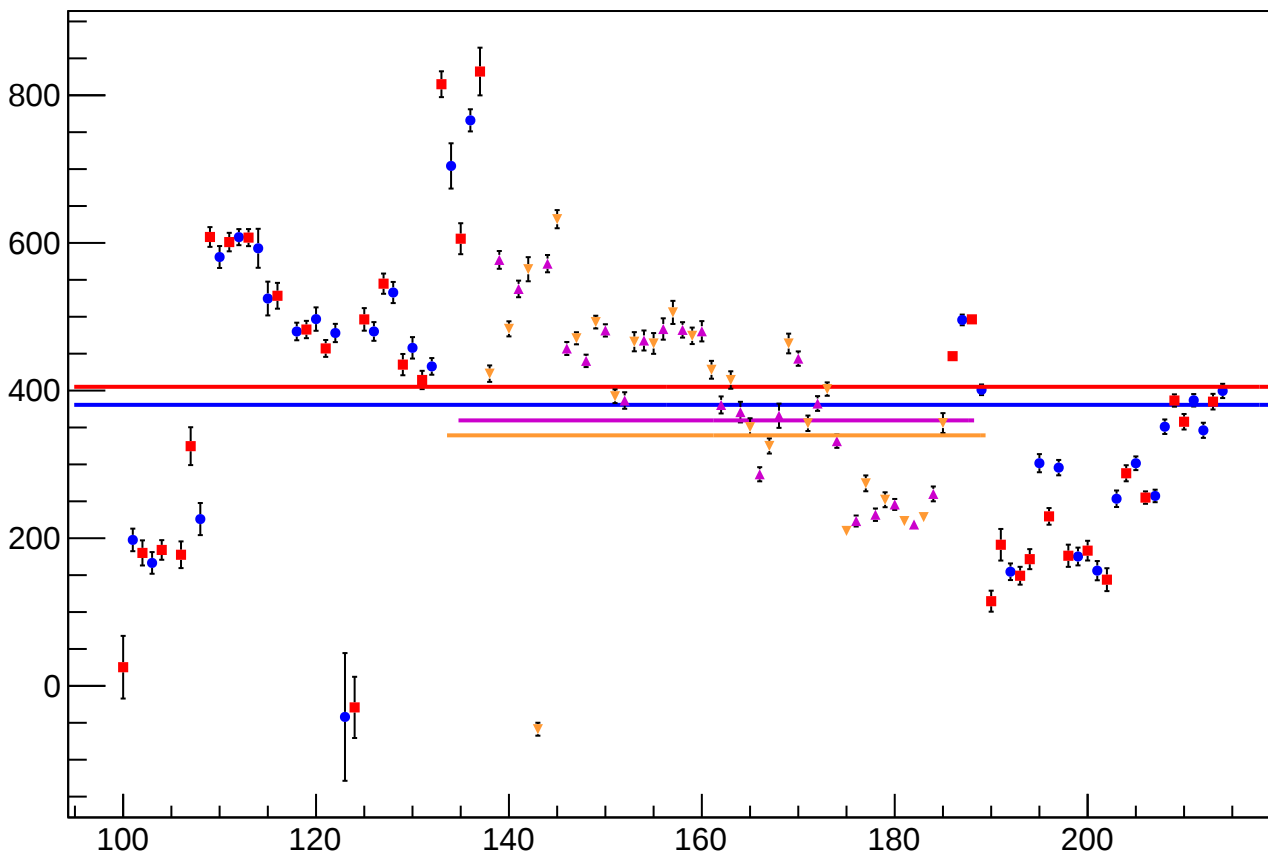
Right: 16.399+/-1.199 χ^2/NDF : 1492.9/64

In: 6.042+/-1.162 χ^2/NDF : 1056.8/53

Out: 8.973+/-1.118 χ^2/NDF : 1142.7/58

All: 7.565+/-0.806 χ^2/NDF : 2202.8/112

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 380.670 ± 2.098 $\chi^2/\text{NDF}: 4128.9/30$

Left Out: 339.355 ± 1.963 $\chi^2/\text{NDF}: 5502.5/24$

Right Out: 405.106 ± 1.889 $\chi^2/\text{NDF}: 6109.3/33$

Left In: 359.609 ± 2.003 $\chi^2/\text{NDF}: 3398.5/22$

Left: 349.278 ± 1.402 $\chi^2/\text{NDF}: 8953.2/47$

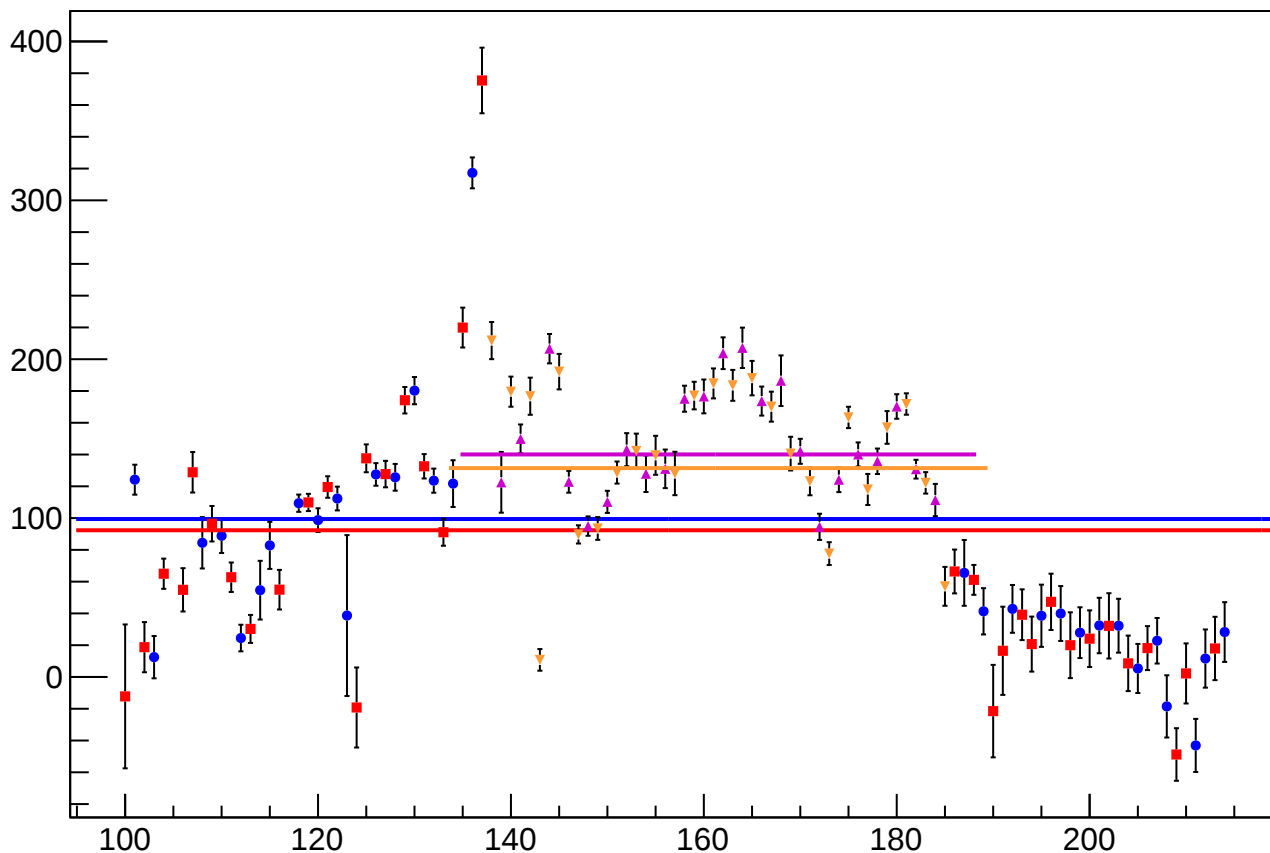
Right: 394.170 ± 1.404 $\chi^2/\text{NDF}: 10313.1/64$

In: 369.648 ± 1.449 $\chi^2/\text{NDF}: 7580.1/53$

Out: 373.493 ± 1.361 $\chi^2/\text{NDF}: 12194.5/58$

All: 371.691 ± 0.992 $\chi^2/\text{NDF}: 19778.4/112$

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 99.416+/-1.999 χ^2/NDF : 1091.4/30

Left Out: 131.464+/-1.728 χ^2/NDF : 809.3/24

Right Out: 92.340+/-1.962 χ^2/NDF : 895.0/33

Left In: 140.069+/-1.795 χ^2/NDF : 316.5/22

Left: 135.602+/-1.245 χ^2/NDF : 1137.8/47

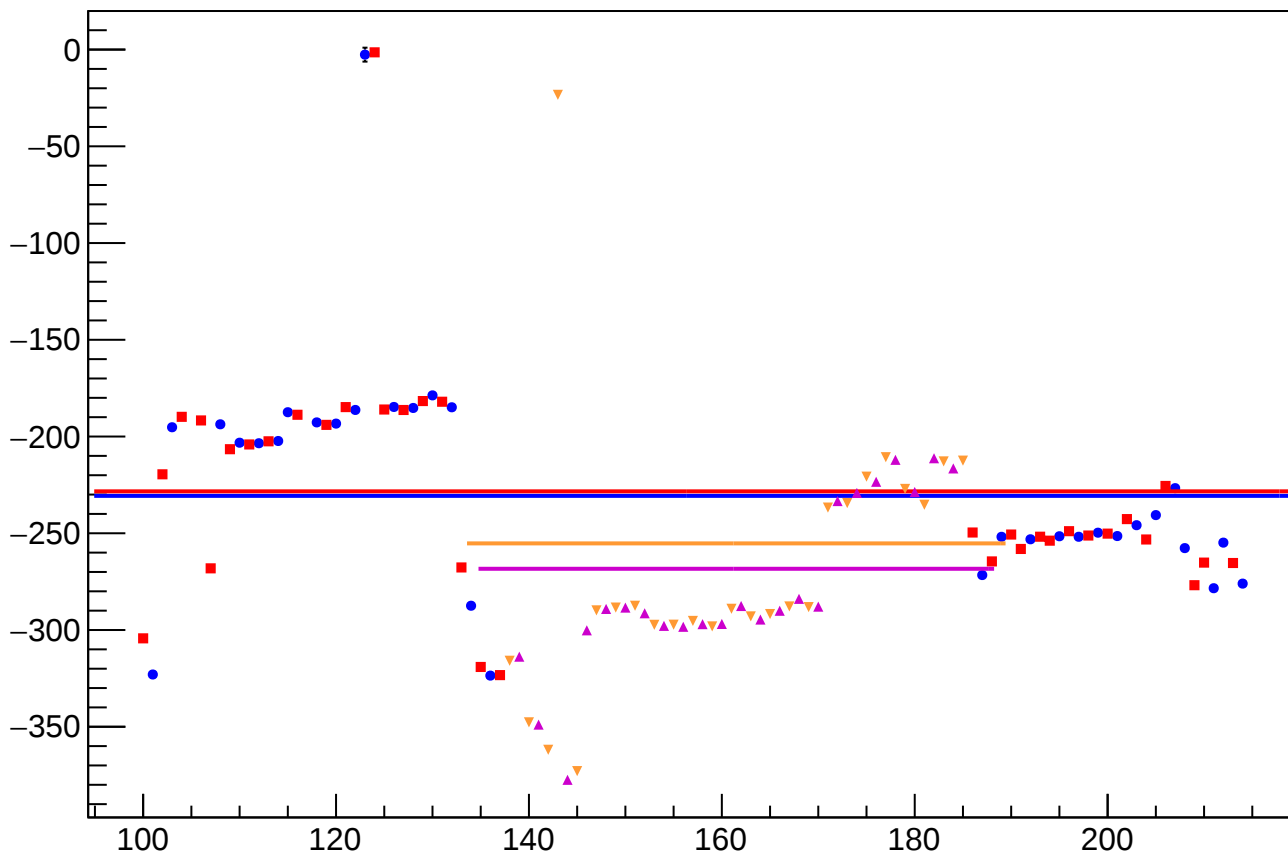
Right: 95.812+/-1.400 χ^2/NDF : 1992.8/64

In: 121.925+/-1.336 χ^2/NDF : 1636.8/53

Out: 114.381+/-1.297 χ^2/NDF : 1928.3/58

All: 118.041+/-0.930 χ^2/NDF : 3581.6/112

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -230.663+/-0.106 χ^2/NDF : 175236.6/30

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

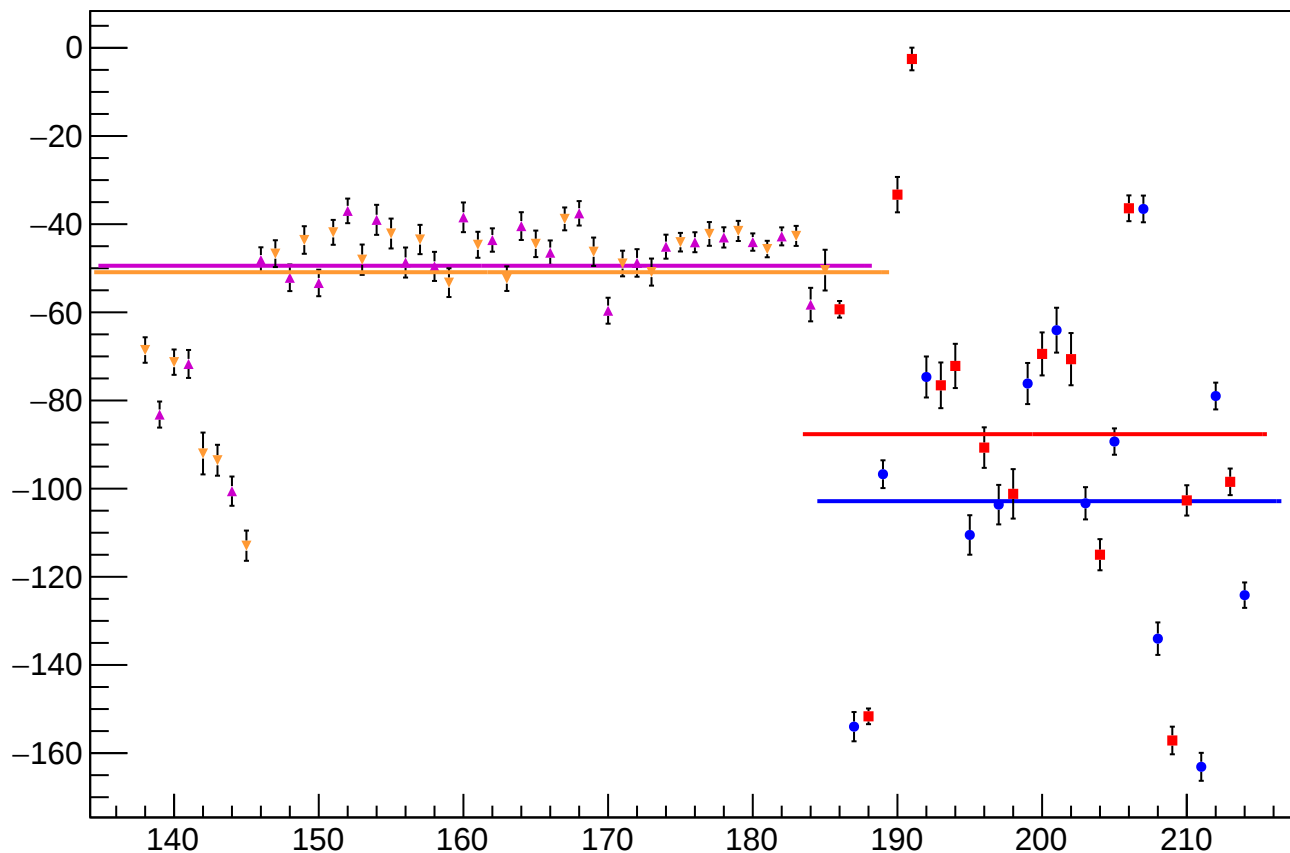
Right: -229.445+/-0.073 χ^2/NDF : 332042.8/64

In: -253.883+/-0.066 χ^2/NDF : 515704.3/53

Out: -244.592+/-0.064 χ^2/NDF : 927180.1/58

All: -249.100+/-0.046 χ^2/NDF : 1453200.8/111

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -102.840 $\pm$ 0.945 χ^2/NDF : 1420.1/13

Left Out: -50.897 $\pm$ 0.573 χ^2/NDF : 761.1/24

Right Out: -87.642 $\pm$ 0.808 χ^2/NDF : 3732.2/14

Left In: -49.432 $\pm$ 0.584 χ^2/NDF : 543.4/22

Left: -50.179 $\pm$ 0.409 χ^2/NDF : 1307.8/47

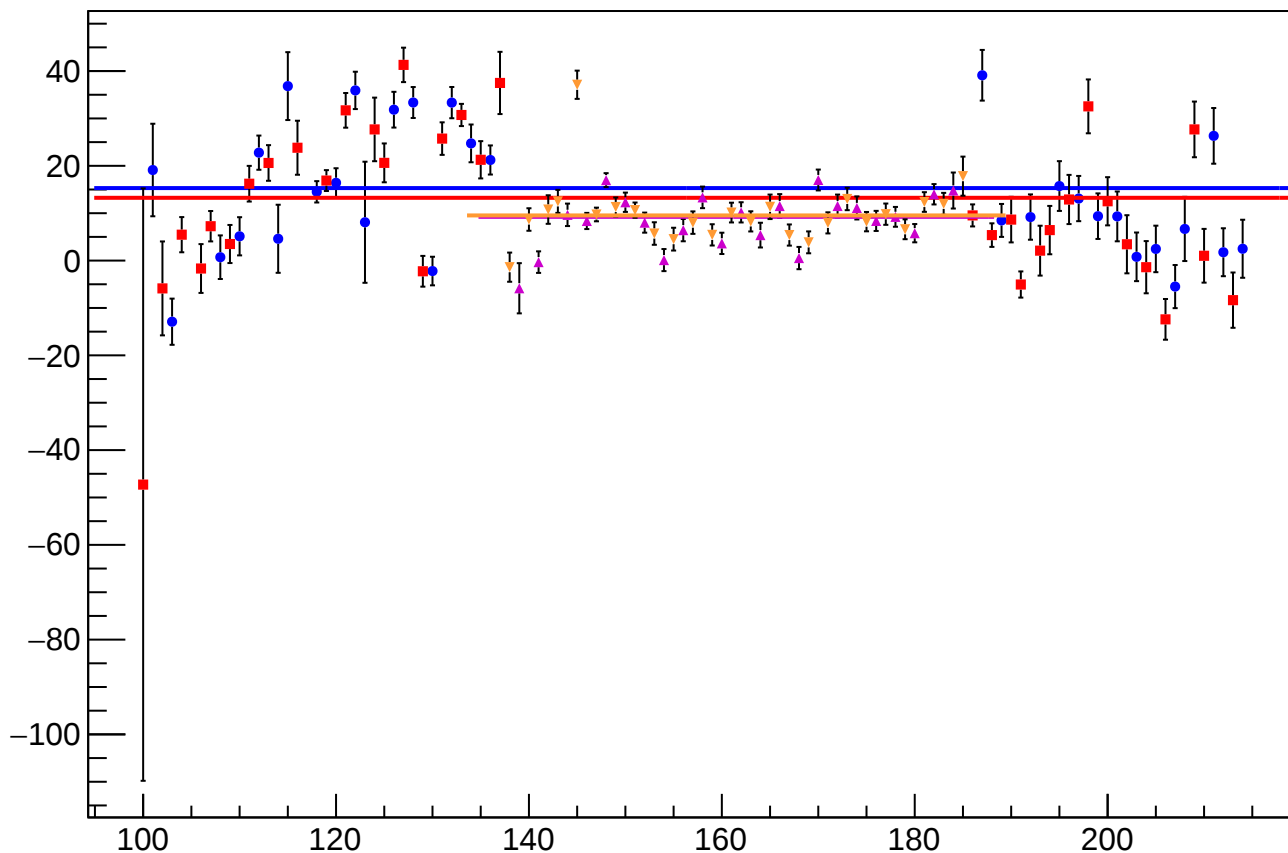
Right: -94.063 $\pm$ 0.614 χ^2/NDF : 5301.5/28

In: -64.183 $\pm$ 0.497 χ^2/NDF : 4274.2/36

Out: -63.176 $\pm$ 0.467 χ^2/NDF : 5868.6/39

All: -63.649 $\pm$ 0.340 χ^2/NDF : 10144.9/76

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.303 $\pm$ 0.756 χ^2 /NDF: 297.0/30

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

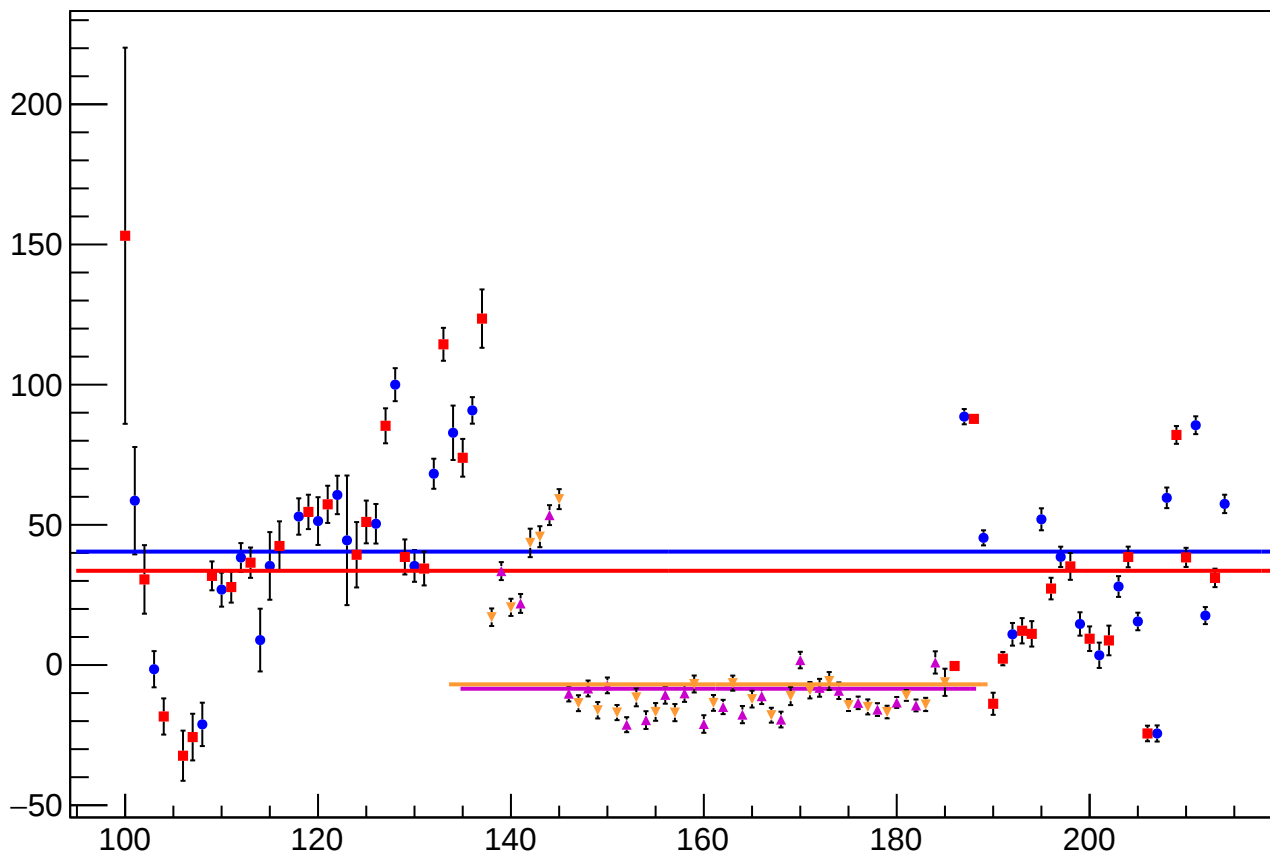
Right: 14.150 $\pm$ 0.500 χ^2 /NDF: 685.9/64

In: 10.881 $\pm$ 0.394 χ^2 /NDF:467.9/53

Out: 10.679 $\pm$ 0.371 χ^2 /NDF:540.6/58

All: 10.774 $\pm$ 0.270 χ^2 /NDF: 1008.7/112

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 40.455 $\pm$ 0.790 χ^2 /NDF: 1773.4/30

Left Out: -6.888 $\pm$ 0.571 χ^2 /NDF:914.2/24

Right Out: 33.610 $\pm$ 0.655 χ^2 /NDF: 3596.7/33

Left In: -8.451 $\pm$ 0.580 χ^2 /NDF:688.9/22

Left: -7.658 $\pm$ 0.407 χ^2 /NDF: 1606.8/47

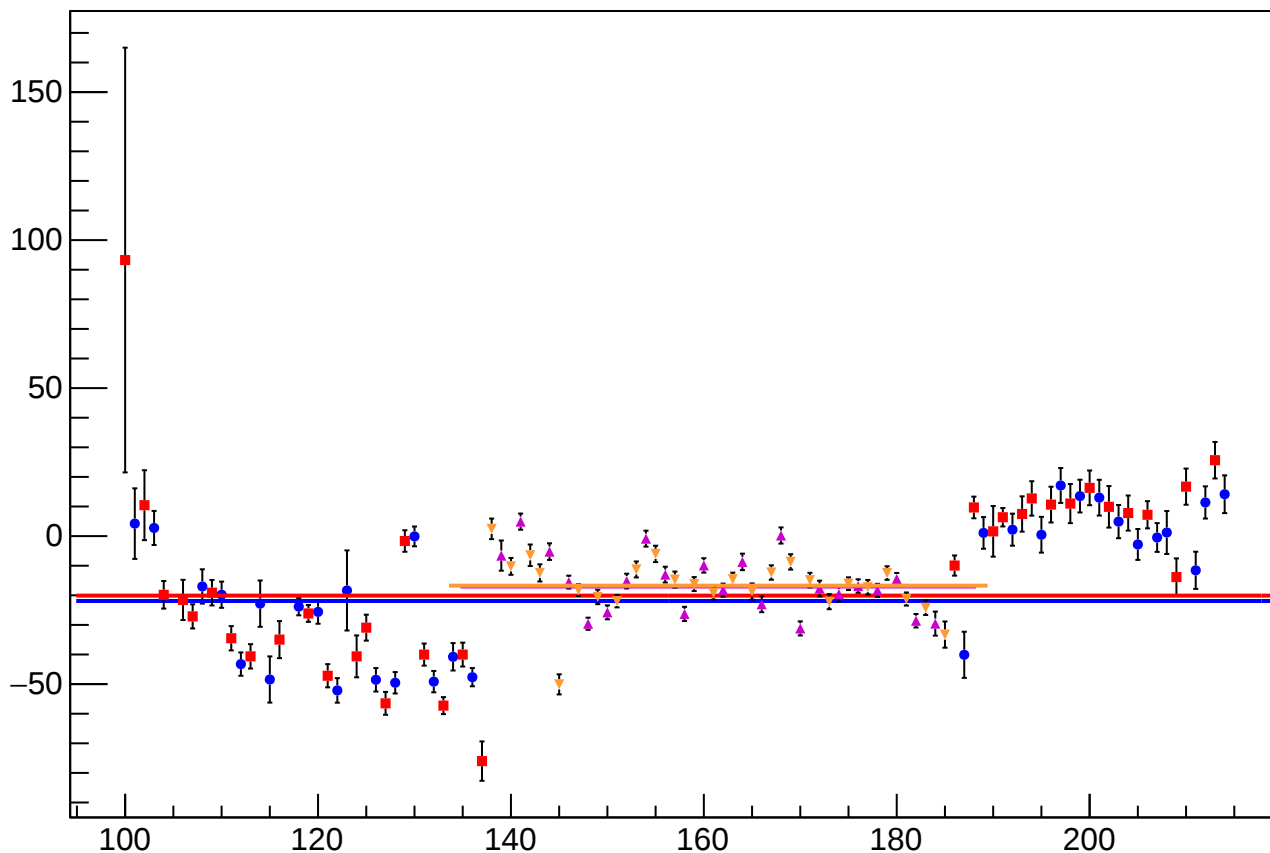
Right: 36.402 $\pm$ 0.504 χ^2 /NDF: 5414.7/64

In: 8.682 $\pm$ 0.467 χ^2 /NDF:4954.7/53

Out: 10.591 $\pm$ 0.430 χ^2 /NDF:6682.2/58

All: 9.715 $\pm$ 0.317 χ^2 /NDF: 11646.0/112

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.921 ± 0.867 χ^2/NDF : 722.4/30

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -20.104 ± 0.790 χ^2/NDF : 989.2/33

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

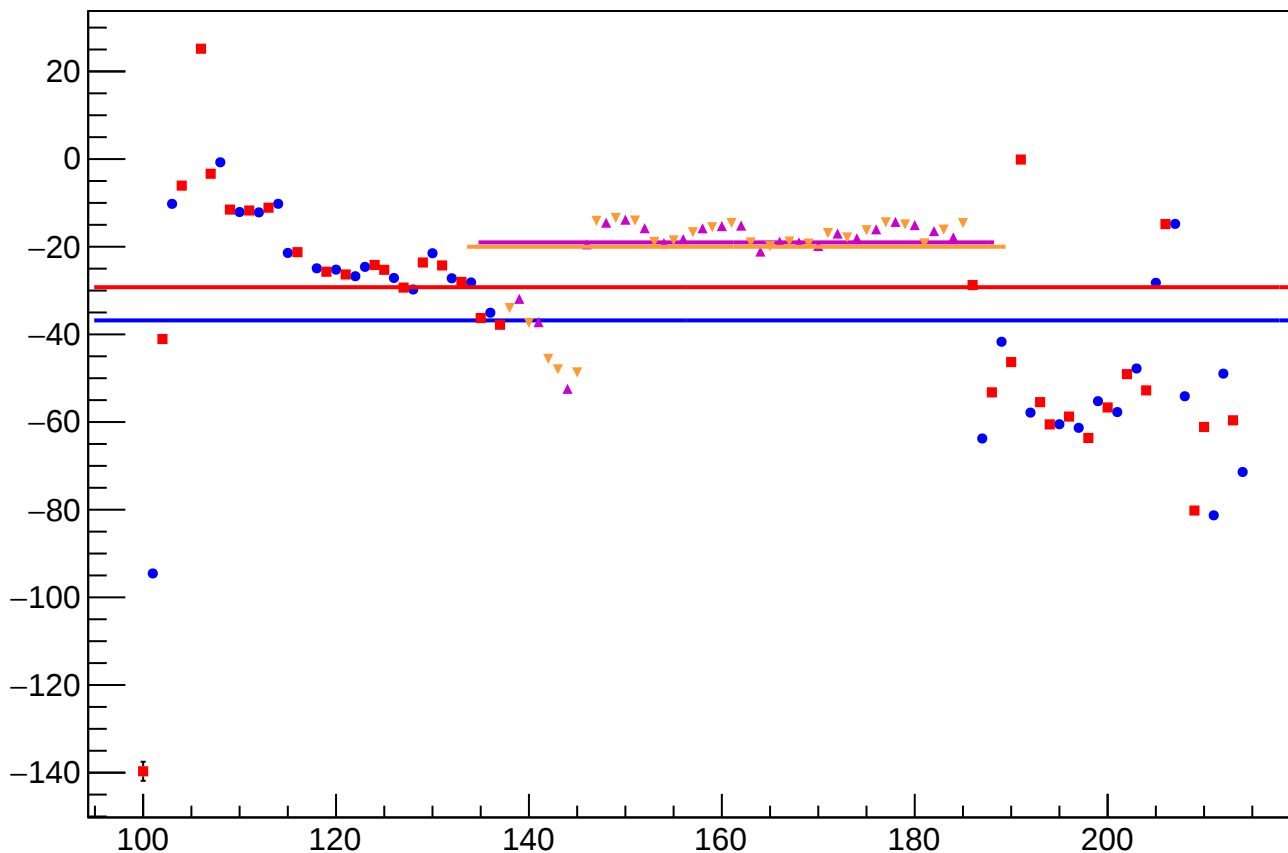
Right: -20.928 ± 0.584 χ^2/NDF : 1714.0/64

In: -18.326 ± 0.447 χ^2/NDF : 1073.4/53

Out: -17.716 ± 0.426 χ^2/NDF : 1225.4/58

All: -18.006 ± 0.309 χ^2/NDF : 2299.8/112

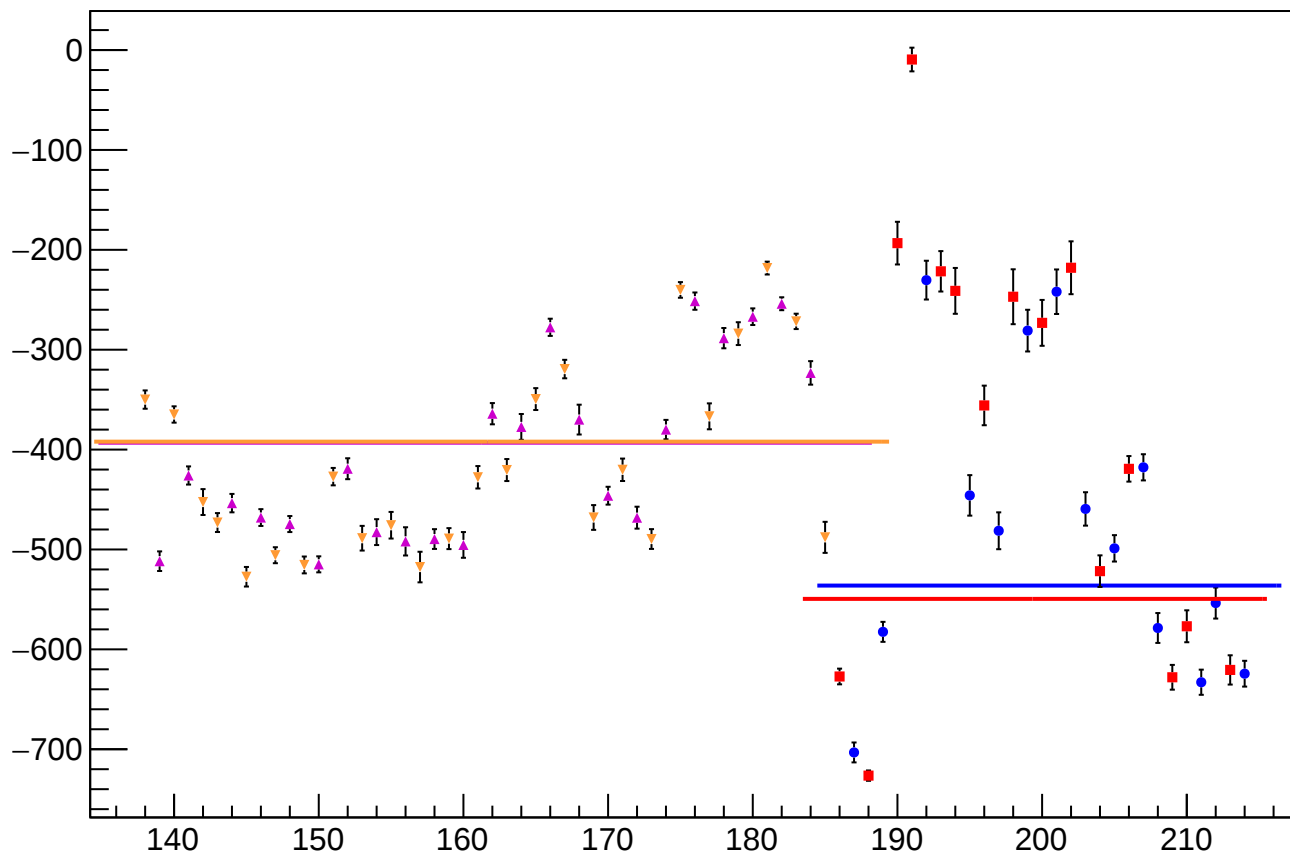
reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -36.809 $\pm$ 0.041 χ^2/NDF : 254956.0/30
 Left Out: -20.006 $\pm$ 0.023 χ^2/NDF :145623.8/24
 Right Out: -29.232 $\pm$ 0.036 χ^2/NDF : 469478.5/33
 Left In: -19.007 $\pm$ 0.024 χ^2/NDF :90873.3/22

Left: -19.514 $\pm$ 0.017 χ^2/NDF : 237400.2/47
 Right: -32.544 $\pm$ 0.027 χ^2/NDF : 743636.8/64
 In: -23.455 $\pm$ 0.021 χ^2/NDF :487098.1/53
 Out: -22.713 $\pm$ 0.020 χ^2/NDF :661121.8/58
 All: -23.067 $\pm$ 0.014 χ^2/NDF : 1148904.2/112

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -536.149+/-3.823 χ^2/NDF : 1128.6/13

Left Out: -392.054+/-1.967 χ^2/NDF : 2717.2/24

Right Out: -549.472+/-3.170 χ^2/NDF : 4752.3/14

Left In: -393.113+/-2.006 χ^2/NDF : 2253.3/22

Left: -392.573+/-1.404 χ^2/NDF : 4970.6/47

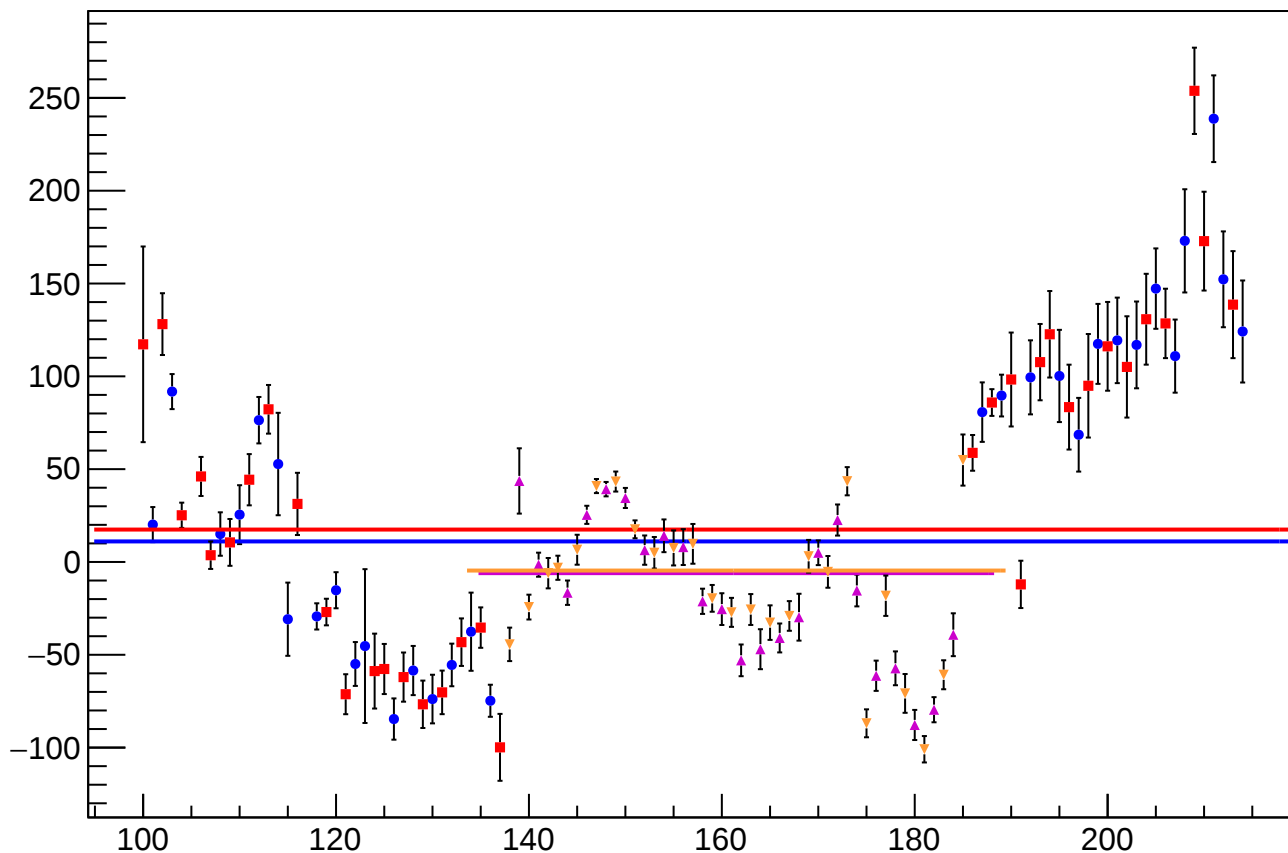
Right: -544.043+/-2.440 χ^2/NDF : 5888.0/28

In: -423.983+/-1.776 χ^2/NDF : 4479.7/36

Out: -435.795+/-1.671 χ^2/NDF : 9249.8/39

All: -430.248+/-1.217 χ^2/NDF : 13752.9/76

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.068 ± 2.498 $\chi^2/\text{NDF}: 880.4/30$

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 $\chi^2/\text{NDF}: 1427.4/47$

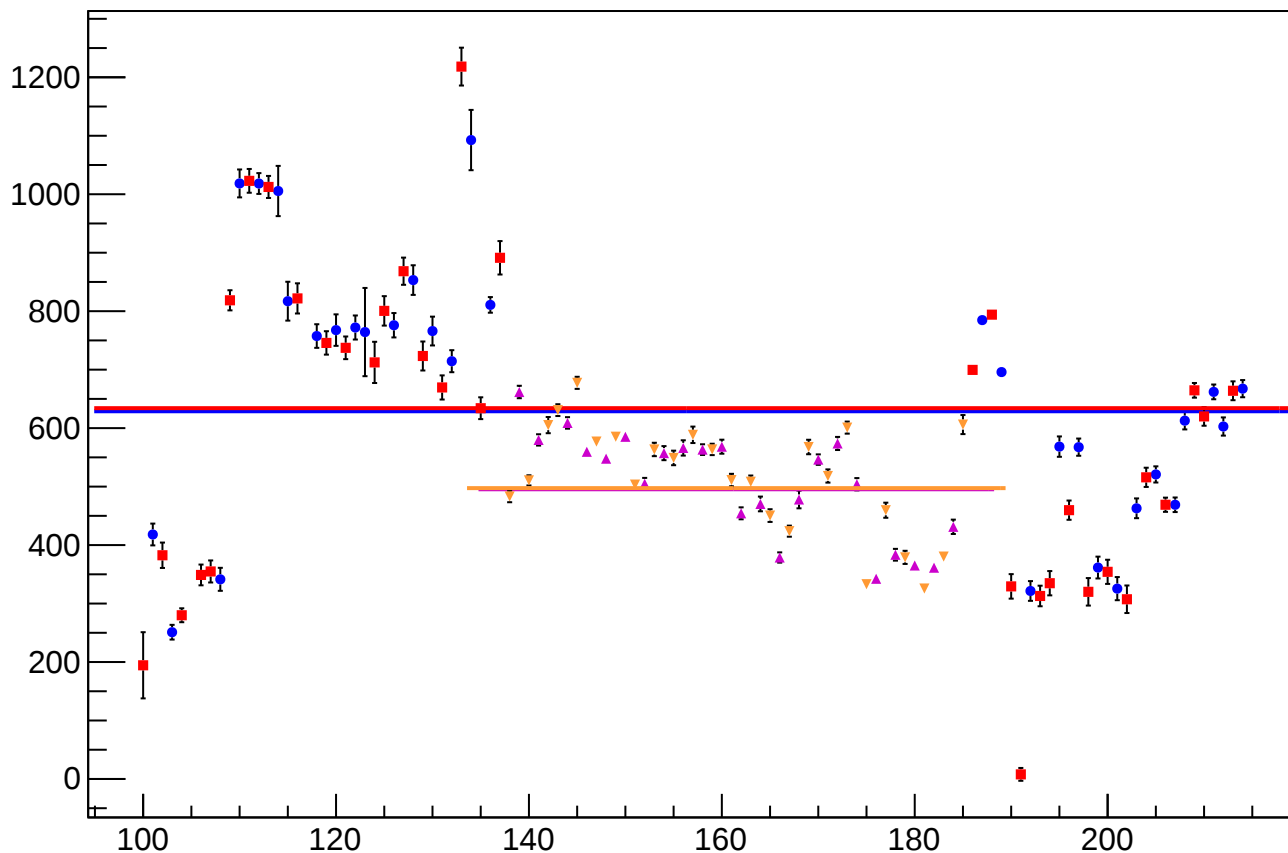
Right: 14.645 ± 1.657 $\chi^2/\text{NDF}: 1778.5/64$

In: -1.418 ± 1.296 $\chi^2/\text{NDF}: 1568.7/53$

Out: 2.080 ± 1.220 $\chi^2/\text{NDF}: 1736.6/58$

All: 0.436 ± 0.888 $\chi^2/\text{NDF}: 3309.1/112$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 628.861 ± 2.889 $\chi^2/\text{NDF}: 4230.1/30$

Left Out: 497.381 ± 1.966 $\chi^2/\text{NDF}: 2614.6/24$

Right Out: 634.135 ± 2.372 $\chi^2/\text{NDF}: 9632.3/33$

Left In: 495.454 ± 1.992 $\chi^2/\text{NDF}: 2253.8/22$

Left: 496.430 ± 1.399 $\chi^2/\text{NDF}: 4868.9/47$

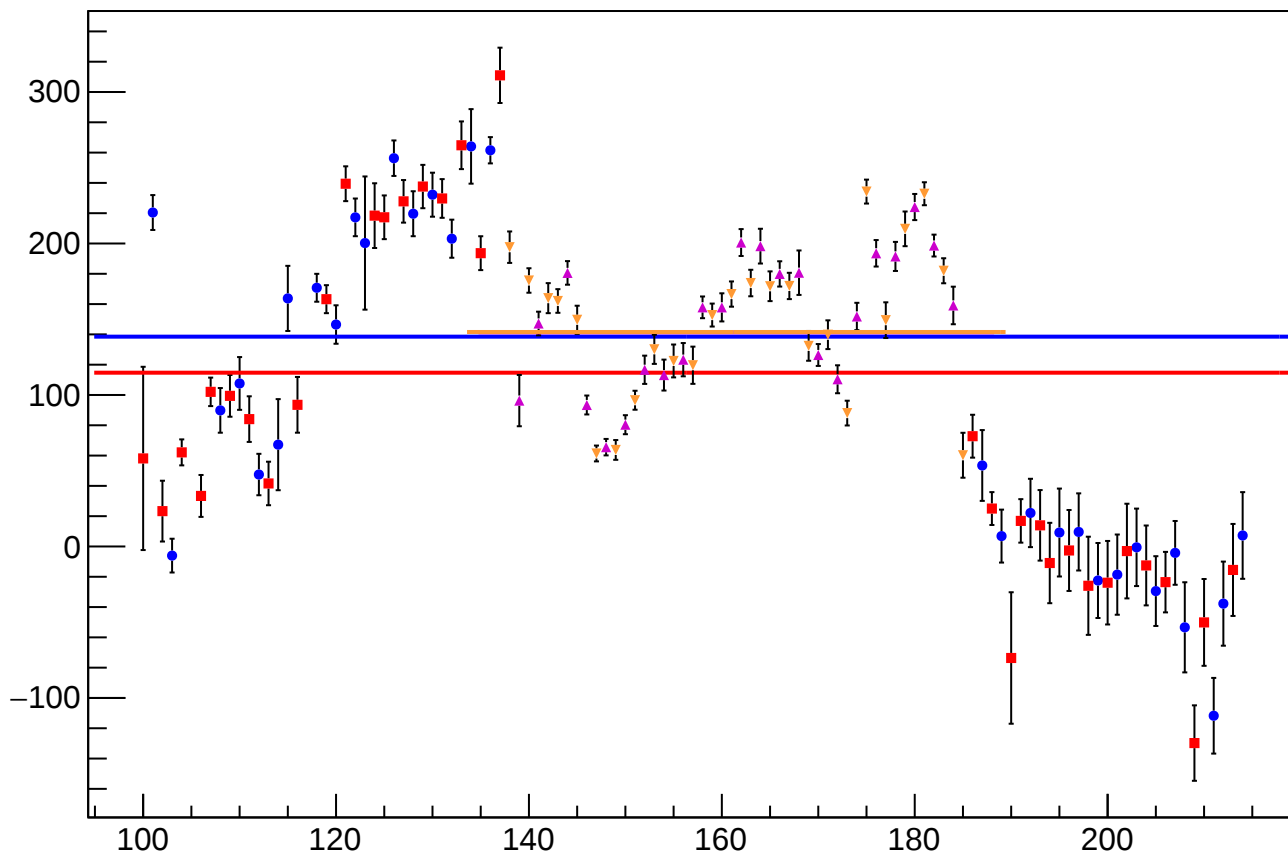
Right: 632.011 ± 1.833 $\chi^2/\text{NDF}: 13864.4/64$

In: 538.441 ± 1.640 $\chi^2/\text{NDF}: 7928.9/53$

Out: 553.060 ± 1.514 $\chi^2/\text{NDF}: 14217.1/58$

All: 546.335 ± 1.112 $\chi^2/\text{NDF}: 22188.9/112$

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 138.504 $\pm$ 2.902 χ^2 /NDF: 1317.1/30

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

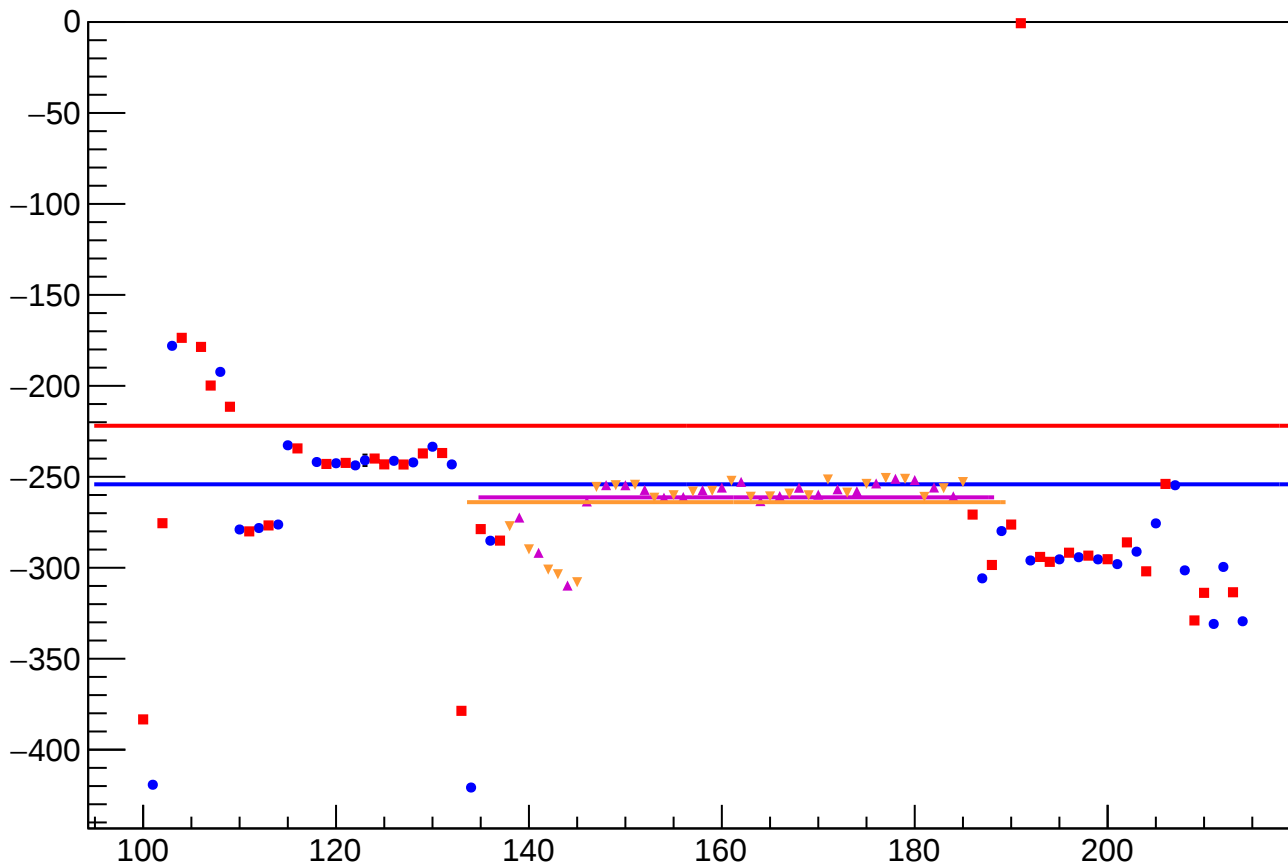
Right: 125.527 $\pm$ 1.957 χ^2 /NDF: 2657.7/64

In: 140.600 $\pm$ 1.497 χ^2 /NDF:2059.0/53

Out: 133.760 $\pm$ 1.430 χ^2 /NDF:2336.5/58

All: 137.023 $\pm$ 1.034 χ^2 /NDF: 4406.4/112

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -254.127+/-0.135 χ^2/NDF : 205198.4/30

Left Out: -263.943+/-0.081 χ^2/NDF : 39085.0/24

Right Out: -221.938+/-0.121 χ^2/NDF : 510368.6/33

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

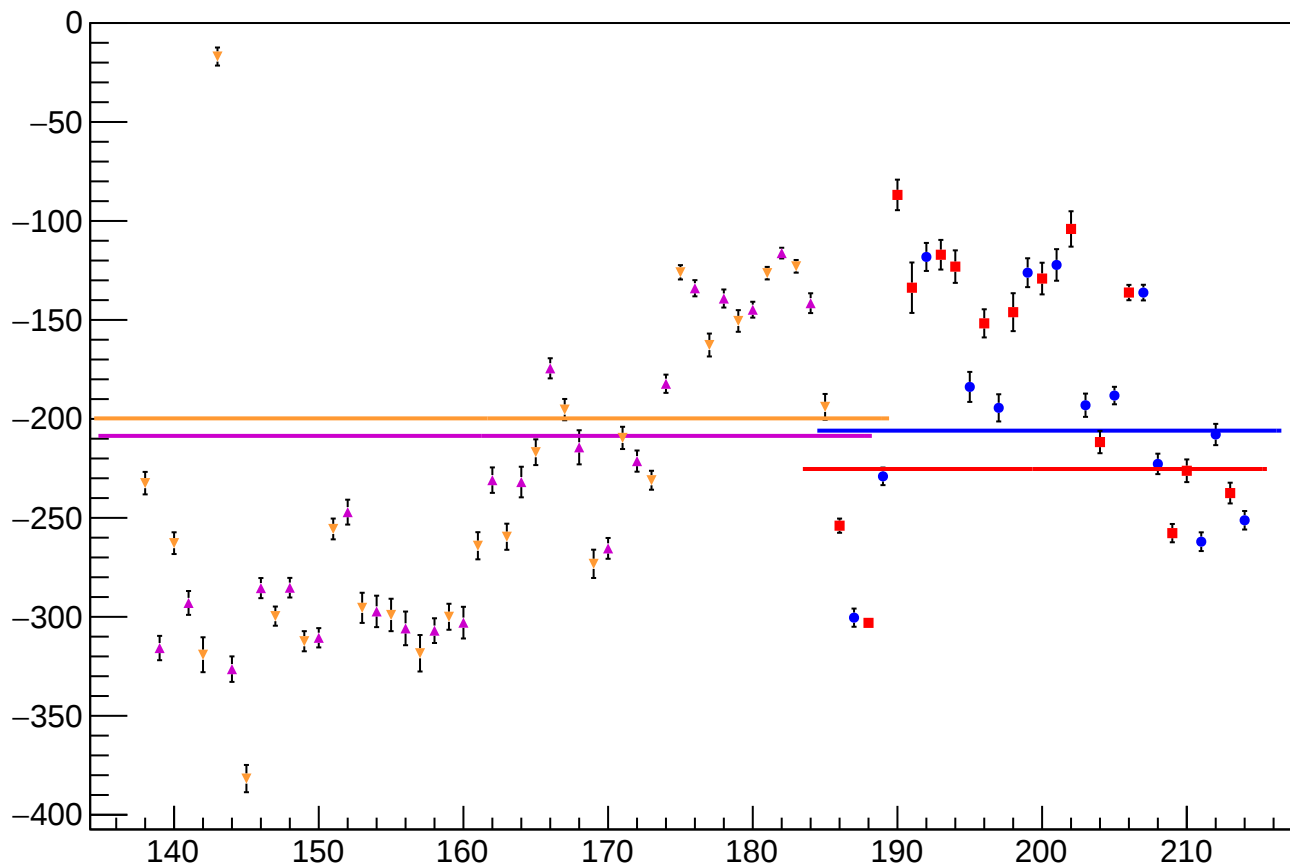
Right: -236.355+/-0.090 χ^2/NDF : 747017.1/64

In: -259.355+/-0.070 χ^2/NDF : 230604.4/53

Out: -250.960+/-0.068 χ^2/NDF : 632071.8/58

All: -255.004+/-0.049 χ^2/NDF : 870120.1/112

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -205.935 $\pm$ 1.417 χ^2 /NDF: 1422.2/13

Left Out: -199.741 $\pm$ 1.061 χ^2 /NDF:6361.5/24

Right Out: -225.309 $\pm$ 1.311 χ^2 /NDF: 2970.4/14

Left In: -208.579 $\pm$ 1.082 χ^2 /NDF:4805.1/22

Left: -204.073 $\pm$ 0.758 χ^2 /NDF: 11200.6/47

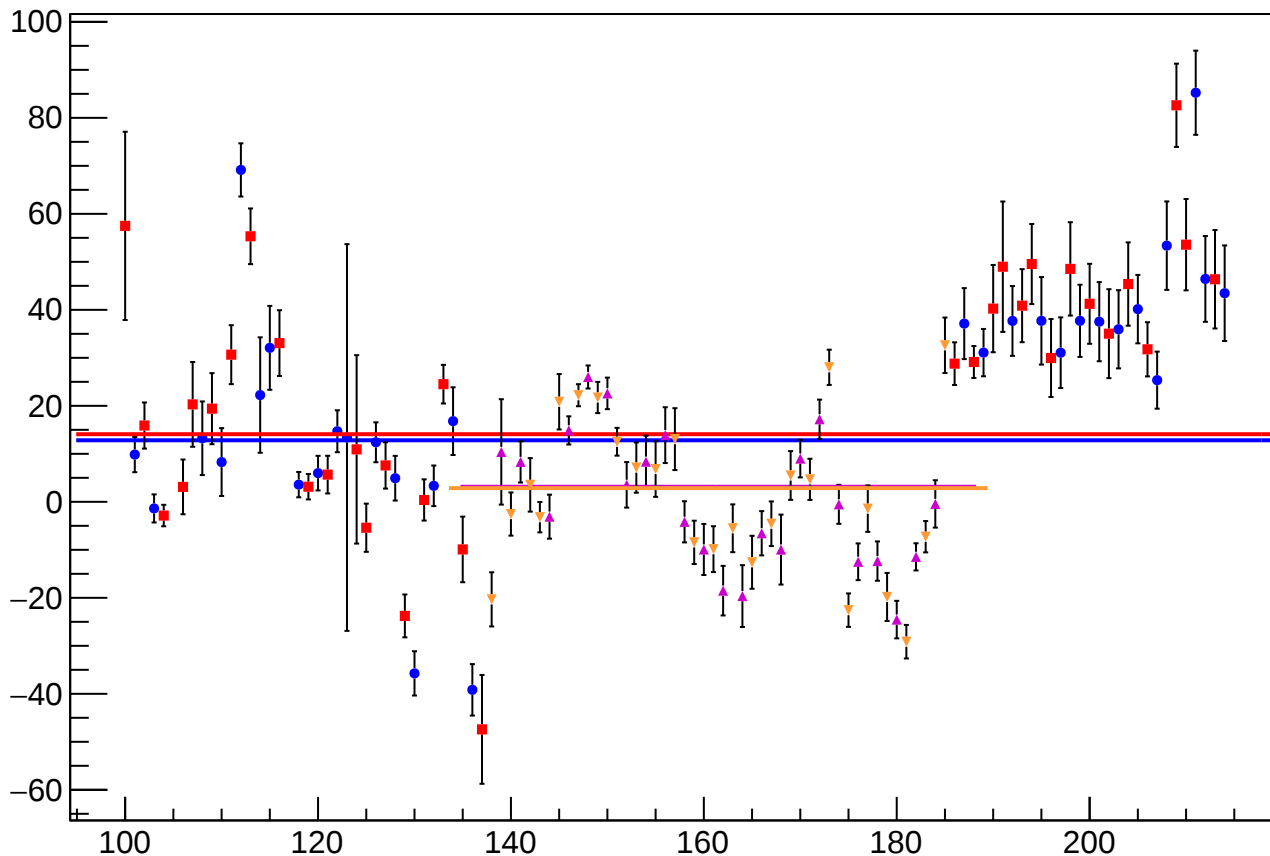
Right: -216.374 $\pm$ 0.962 χ^2 /NDF: 4493.3/28

In: -207.605 $\pm$ 0.860 χ^2 /NDF:6229.5/36

Out: -209.862 $\pm$ 0.825 χ^2 /NDF:9561.7/39

All: -208.781 $\pm$ 0.595 χ^2 /NDF: 15794.8/76

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.820 $\pm$ 0.968 χ^2 /NDF: 570.8/30

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 14.089 $\pm$ 0.915 χ^2 /NDF: 523.1/33

Left In: 3.136 $\pm$ 0.857 χ^2 /NDF: 319.8/22

Left: 2.988 $\pm$ 0.592 χ^2 /NDF: 739.7/47

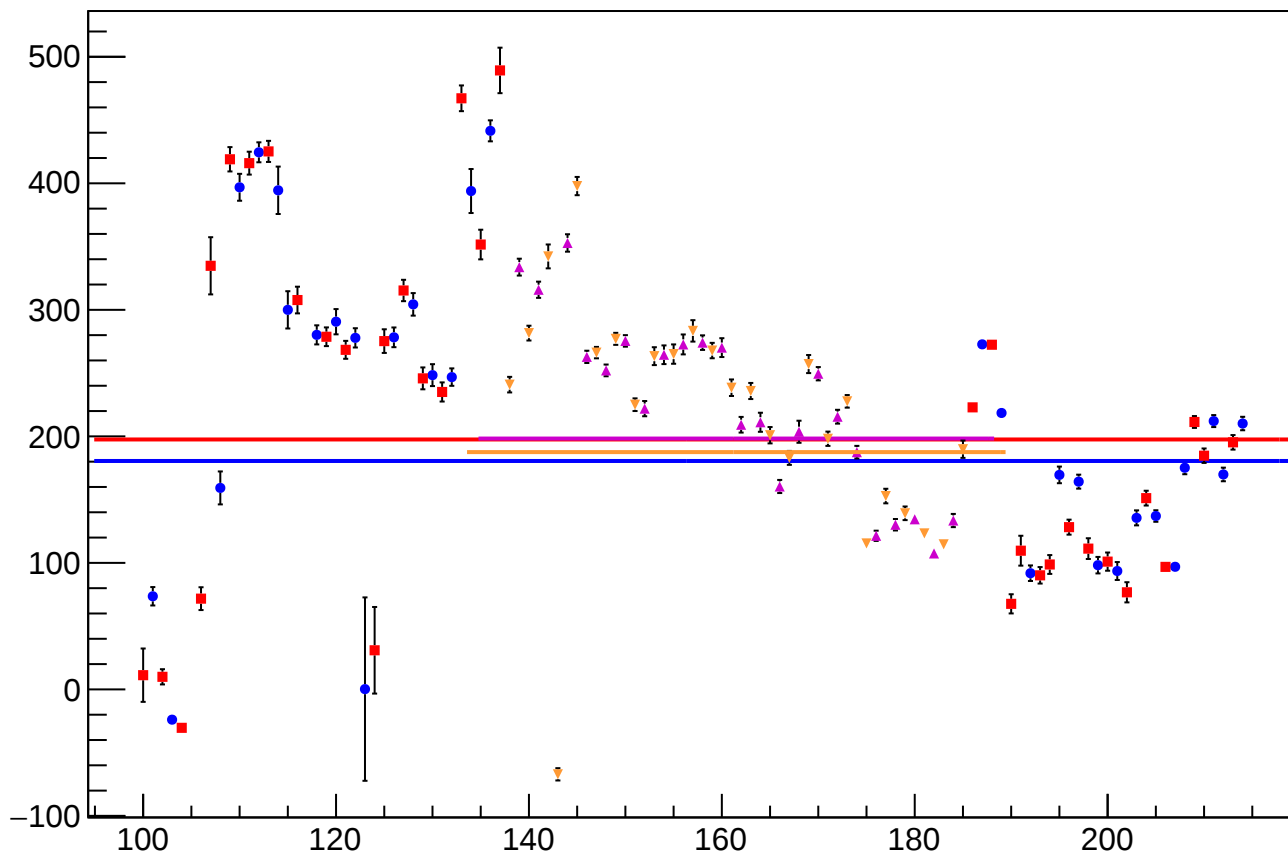
Right: 13.490 $\pm$ 0.665 χ^2 /NDF: 1094.8/64

In: 7.389 $\pm$ 0.641 χ^2 /NDF: 946.8/53

Out: 7.856 $\pm$ 0.611 χ^2 /NDF: 1026.5/58

All: 7.634 $\pm$ 0.442 χ^2 /NDF: 1973.6/112

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 180.542 $\pm$ 1.104 χ^2 /NDF: 8769.8/30

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

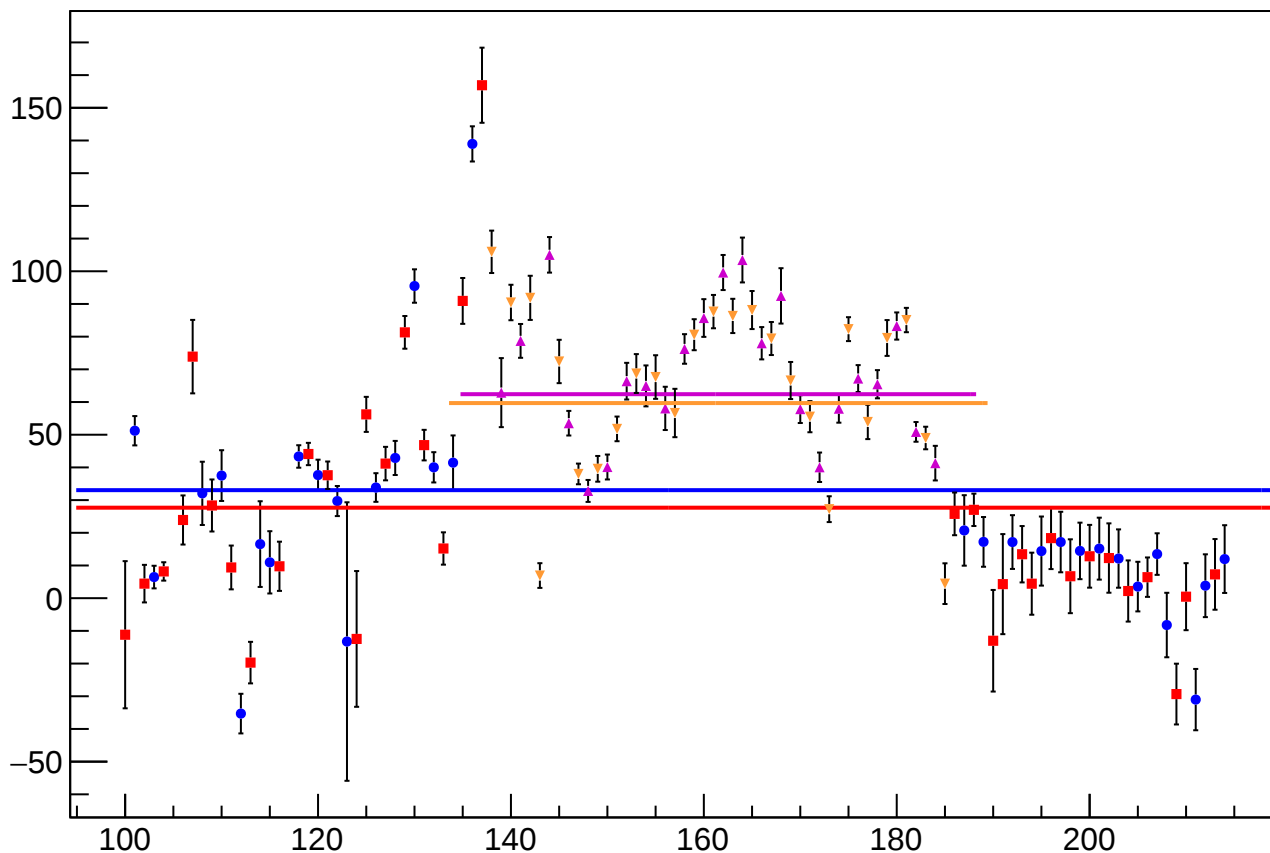
Right: 189.963 $\pm$ 0.737 χ^2 /NDF: 21046.1/64

In: 189.586 $\pm$ 0.773 χ^2 /NDF:13417.2/53

Out: 192.922 $\pm$ 0.725 χ^2 /NDF:19273.9/58

All: 191.359 $\pm$ 0.529 χ^2 /NDF: 32701.0/112

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 33.043 $\pm$ 1.127 χ^2 /NDF: 896.3/30

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

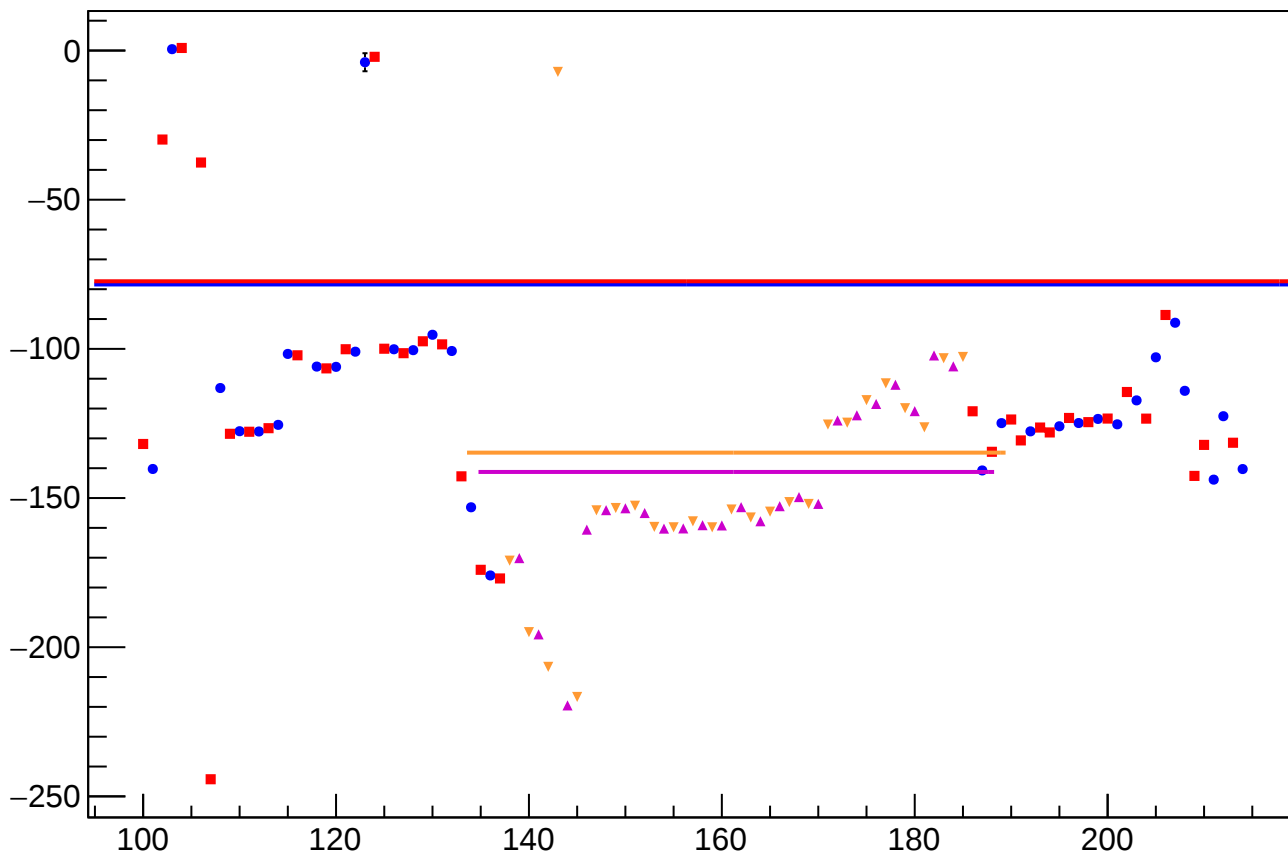
Right: 30.272 $\pm$ 0.783 χ^2 /NDF: 1570.1/64

In: 49.846 $\pm$ 0.737 χ^2 /NDF:1690.9/53

Out: 46.018 $\pm$ 0.712 χ^2 /NDF:1913.8/58

All: 47.866 $\pm$ 0.512 χ^2 /NDF: 3618.7/112

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -78.409 ± 0.050 $\chi^2/\text{NDF}: 1458995.2/30$

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 $\chi^2/\text{NDF}: 1162377.9/47$

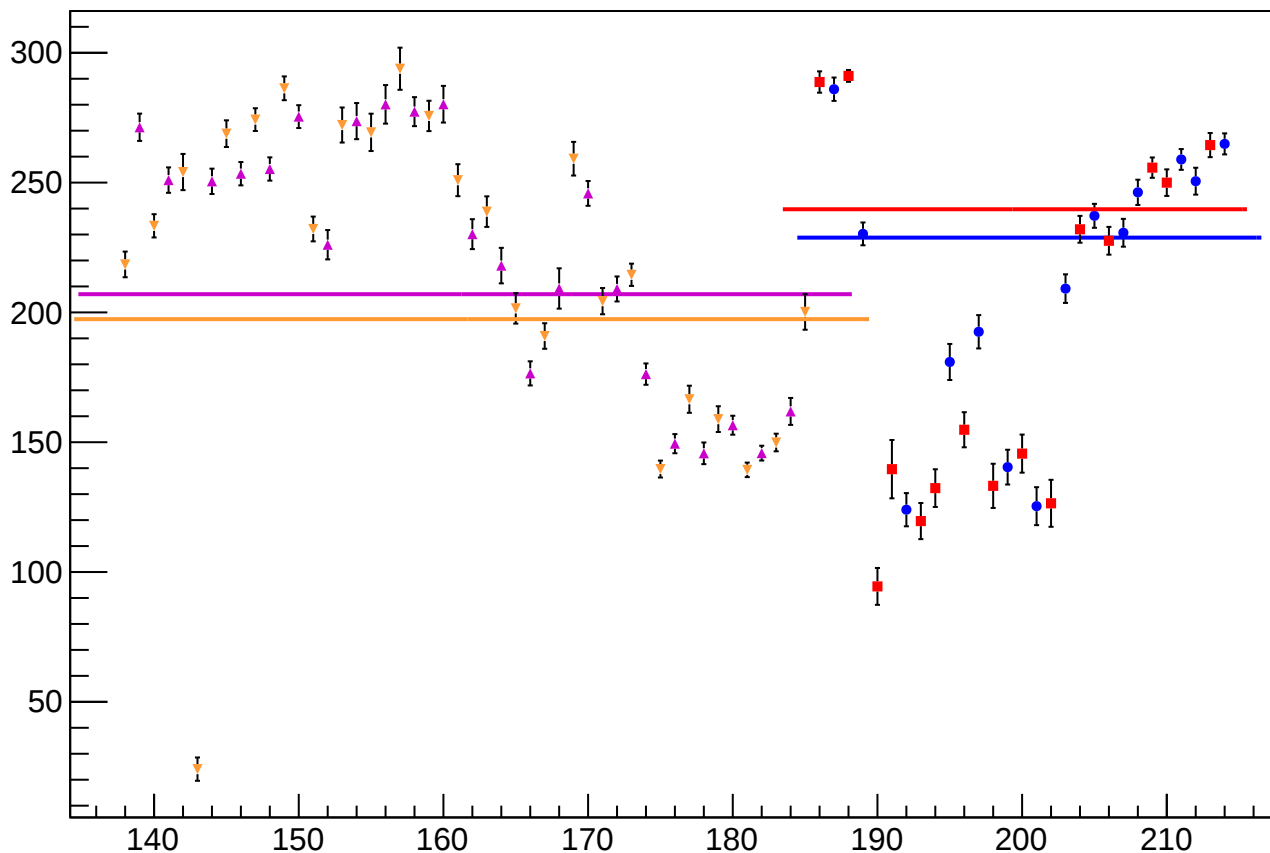
Right: -77.859 ± 0.035 $\chi^2/\text{NDF}: 2902251.9/64$

In: -113.202 ± 0.034 $\chi^2/\text{NDF}: 2665717.5/53$

Out: -108.833 ± 0.033 $\chi^2/\text{NDF}: 3000293.6/58$

All: -110.969 ± 0.024 $\chi^2/\text{NDF}: 5674603.7/111$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 228.808 ± 1.374 χ^2/NDF : 1066.7/13

Left Out: 197.408 ± 0.963 χ^2/NDF : 4384.2/24

Right Out: 239.729 ± 1.283 χ^2/NDF : 2357.2/14

Left In: 207.014 ± 0.990 χ^2/NDF : 2611.5/22

Left: 202.077 ± 0.690 χ^2/NDF : 7044.1/47

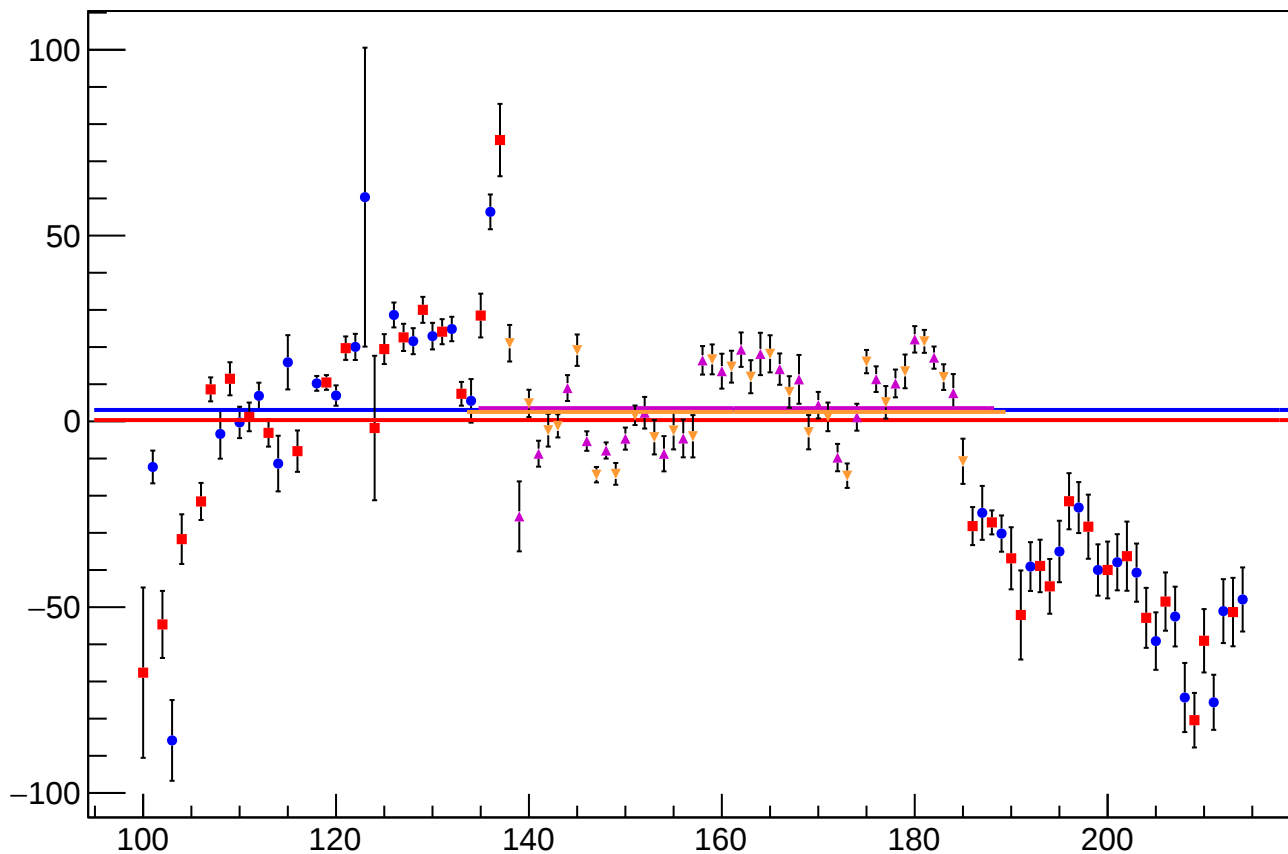
Right: 234.644 ± 0.938 χ^2/NDF : 3457.7/28

In: 214.462 ± 0.803 χ^2/NDF : 3843.8/36

Out: 212.657 ± 0.770 χ^2/NDF : 7437.5/39

All: 213.522 ± 0.556 χ^2/NDF : 11283.9/76

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.073 ± 0.845 χ^2/NDF : 1026.3/30

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: 0.347 ± 0.810 χ^2/NDF : 992.7/33

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

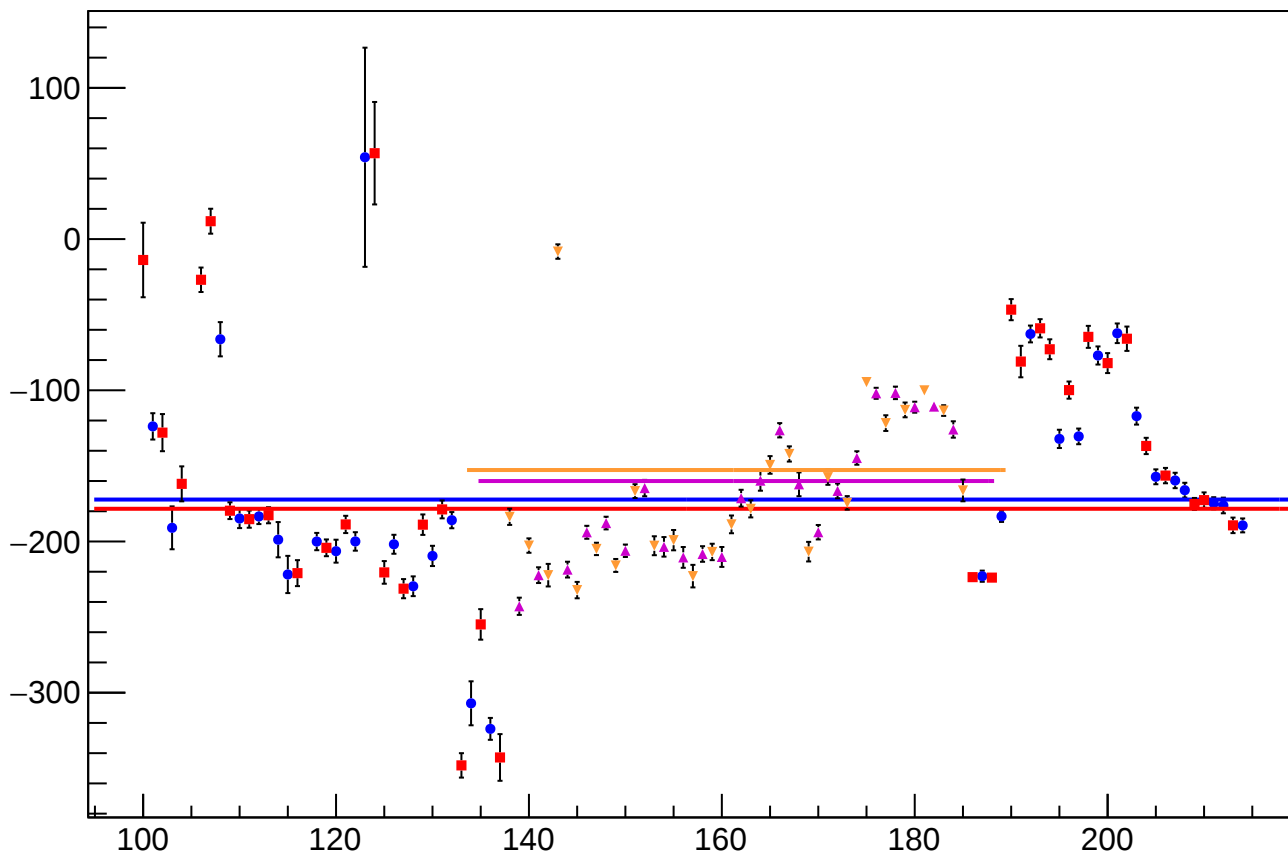
Right: 1.653 ± 0.585 χ^2/NDF : 2024.4/64

In: 3.338 ± 0.571 χ^2/NDF : 1218.4/53

Out: 1.545 ± 0.547 χ^2/NDF : 1272.2/58

All: 2.403 ± 0.395 χ^2/NDF : 2495.7/112

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -172.262 ± 1.052 χ^2/NDF : 2248.2/30

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

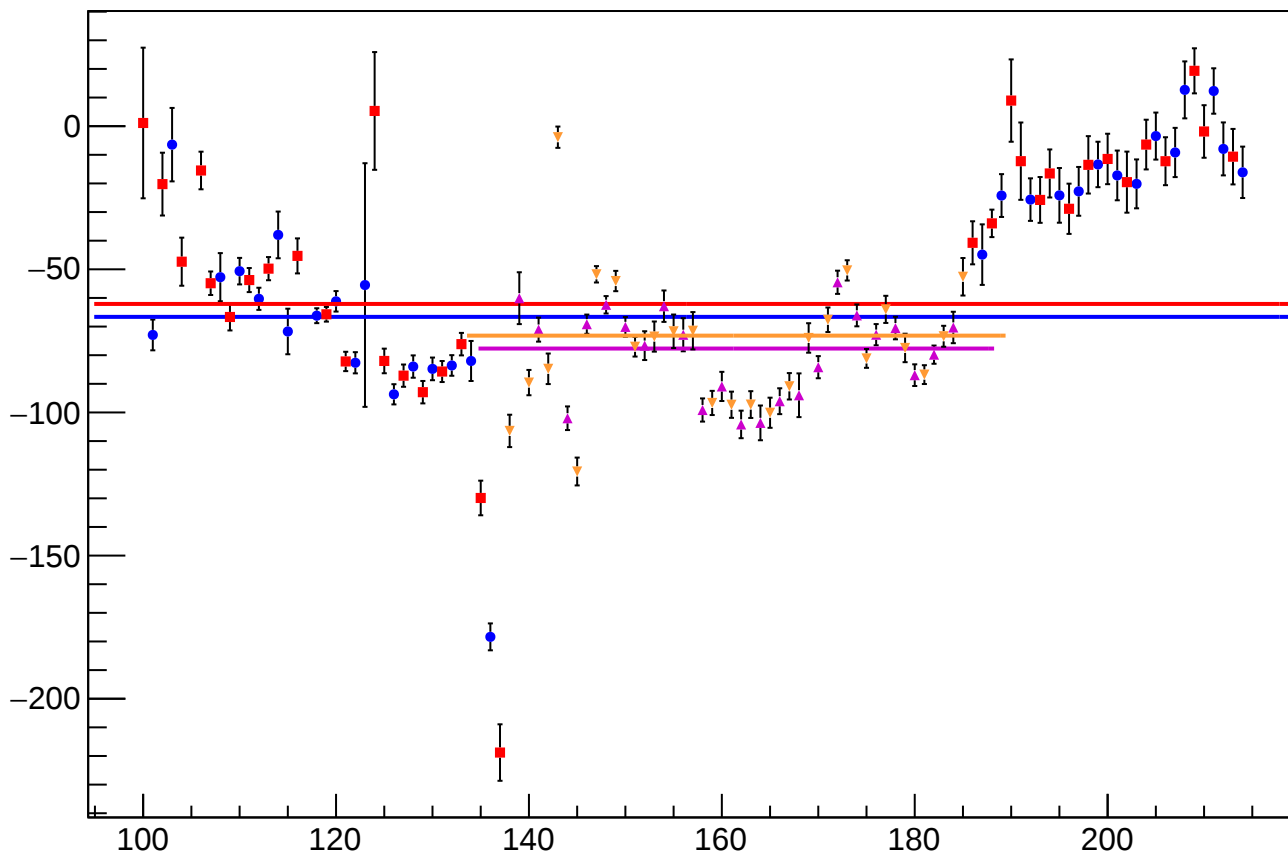
Right: -175.638 ± 0.704 χ^2/NDF : 6851.6/64

In: -165.760 ± 0.721 χ^2/NDF : 4344.4/53

Out: -165.825 ± 0.677 χ^2/NDF : 8021.3/58

All: -165.794 ± 0.493 χ^2/NDF : 12365.8/112

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -66.612 ± 0.980 $\chi^2/\text{NDF}: 1324.6/30$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -62.095 ± 0.948 $\chi^2/\text{NDF}: 1175.8/33$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

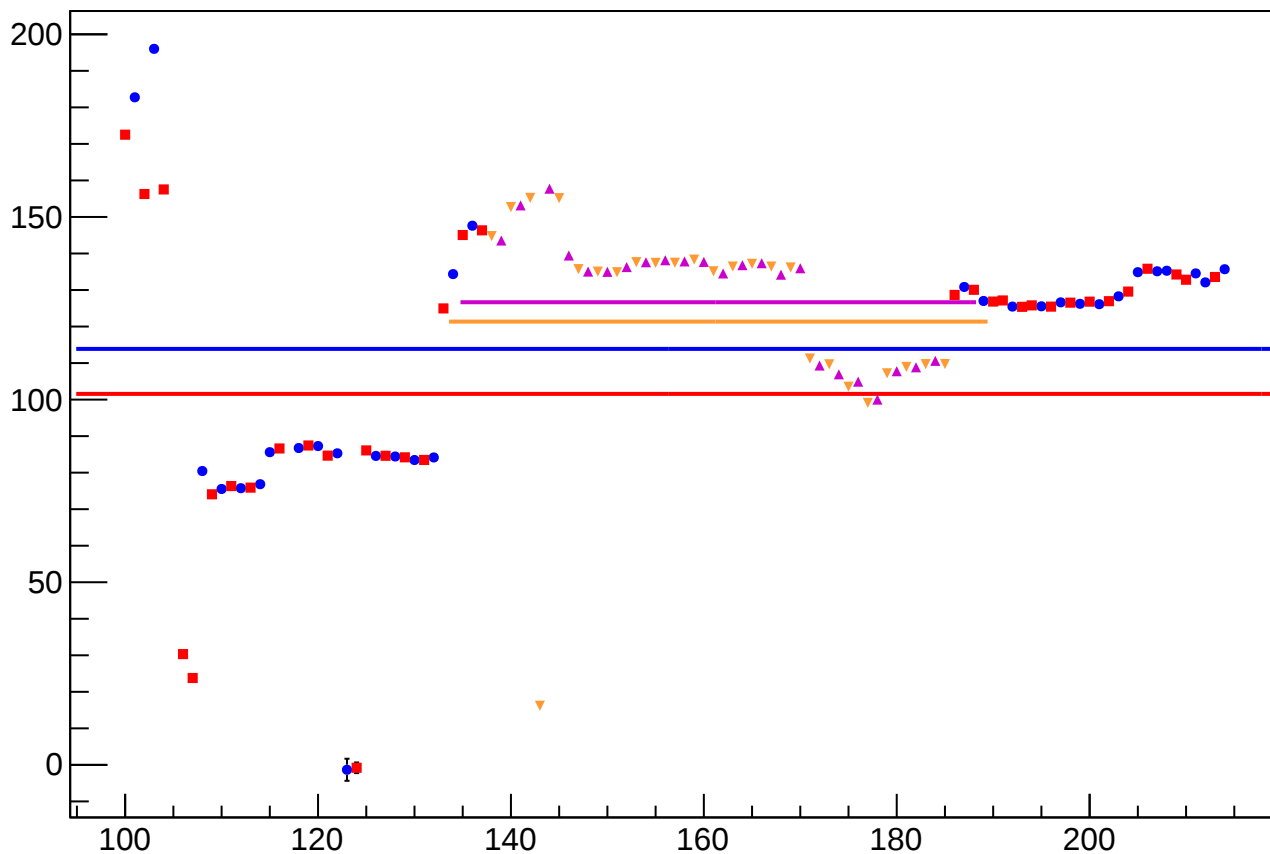
Right: -64.280 ± 0.681 $\chi^2/\text{NDF}: 2511.4/64$

In: -72.718 ± 0.656 $\chi^2/\text{NDF}: 1643.3/53$

Out: -68.224 ± 0.633 $\chi^2/\text{NDF}: 2039.9/58$

All: -70.393 ± 0.456 $\chi^2/\text{NDF}: 3707.5/112$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 113.880 $\pm$ 0.054 χ^2 /NDF: 326398.9/30

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

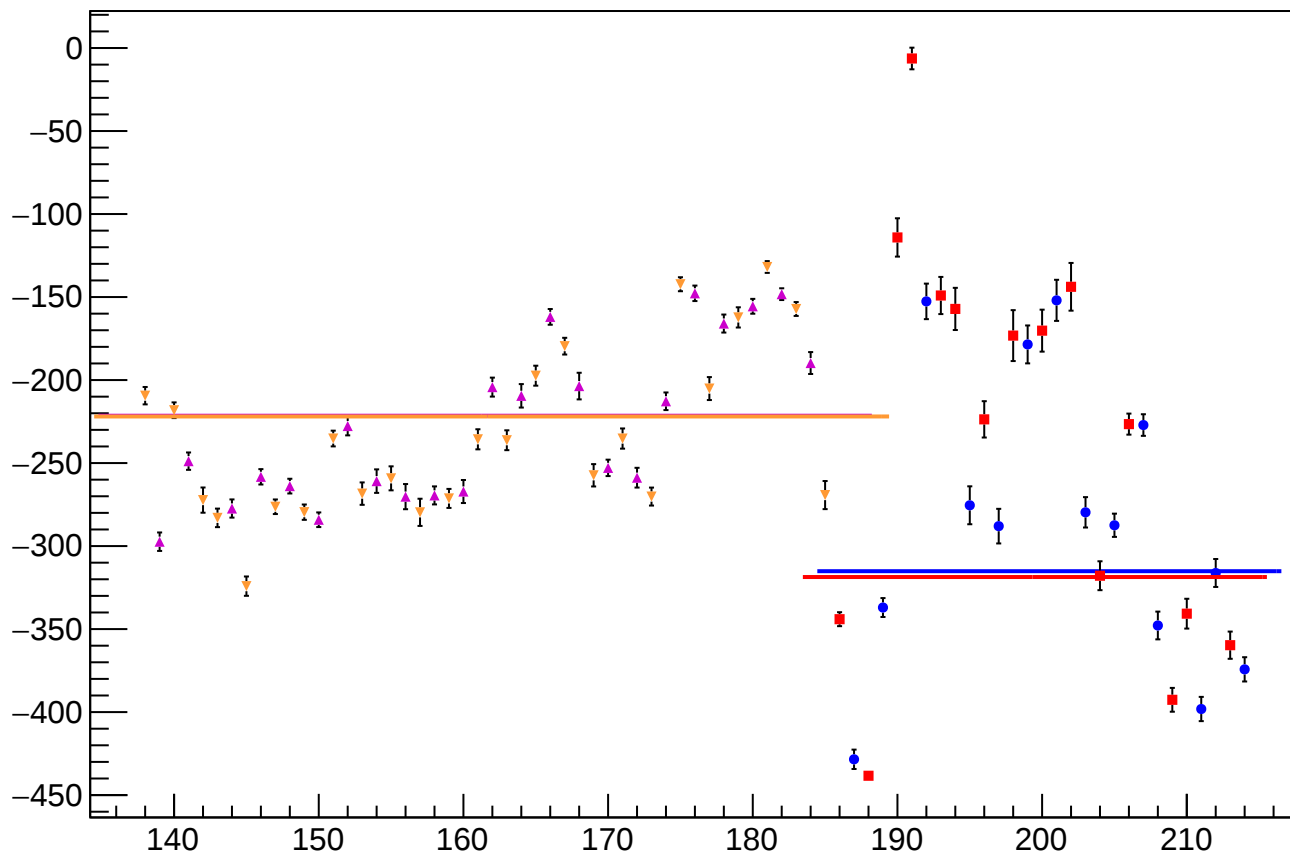
Right: 107.217 $\pm$ 0.037 χ^2 /NDF: 953576.7/64

In: 122.024 $\pm$ 0.033 χ^2 /NDF:524486.5/53

Out: 113.597 $\pm$ 0.031 χ^2 /NDF:1176056.6/58

All: 117.630 $\pm$ 0.023 χ^2 /NDF: 1734962.2/112

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -315.130 ± 2.123 $\chi^2/\text{NDF}: 1382.1/13$

Left Out: -221.934 ± 1.084 $\chi^2/\text{NDF}: 2578.4/24$

Right Out: -318.643 ± 1.771 $\chi^2/\text{NDF}: 5391.6/14$

Left In: -221.483 ± 1.102 $\chi^2/\text{NDF}: 2149.8/22$

Left: -221.712 ± 0.773 $\chi^2/\text{NDF}: 4728.2/47$

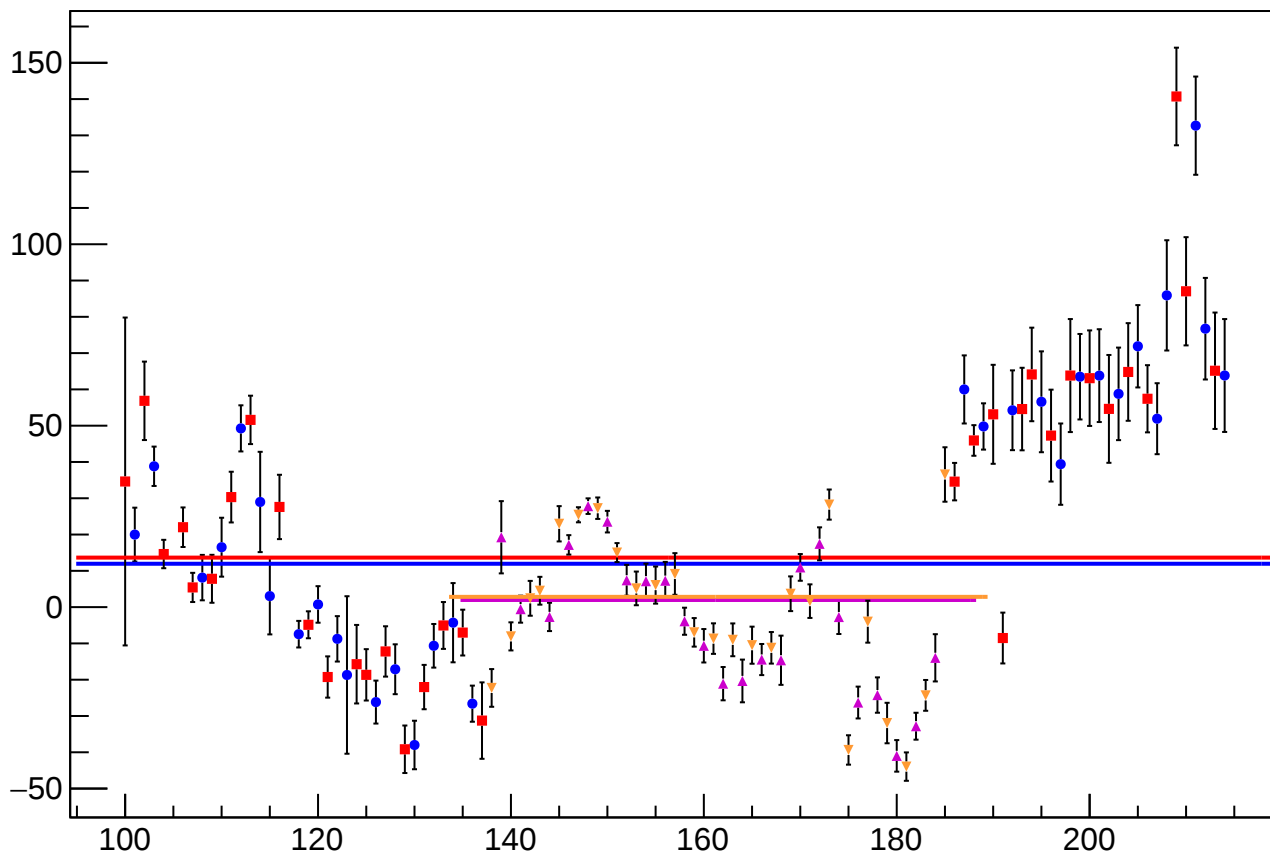
Right: -317.201 ± 1.360 $\chi^2/\text{NDF}: 6775.3/28$

In: -241.367 ± 0.978 $\chi^2/\text{NDF}: 5064.6/36$

Out: -248.300 ± 0.925 $\chi^2/\text{NDF}: 10138.2/39$

All: -245.028 ± 0.672 $\chi^2/\text{NDF}: 15229.3/76$

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.952 $\pm$ 1.366 χ^2 /NDF: 622.7/30

Left Out: 2.832 $\pm$ 0.807 χ^2 /NDF: 686.9/24

Right Out: 13.646 $\pm$ 1.200 χ^2 /NDF: 622.6/33

Left In: 1.969 $\pm$ 0.835 χ^2 /NDF: 589.1/22

Left: 2.415 $\pm$ 0.580 χ^2 /NDF: 1276.5/47

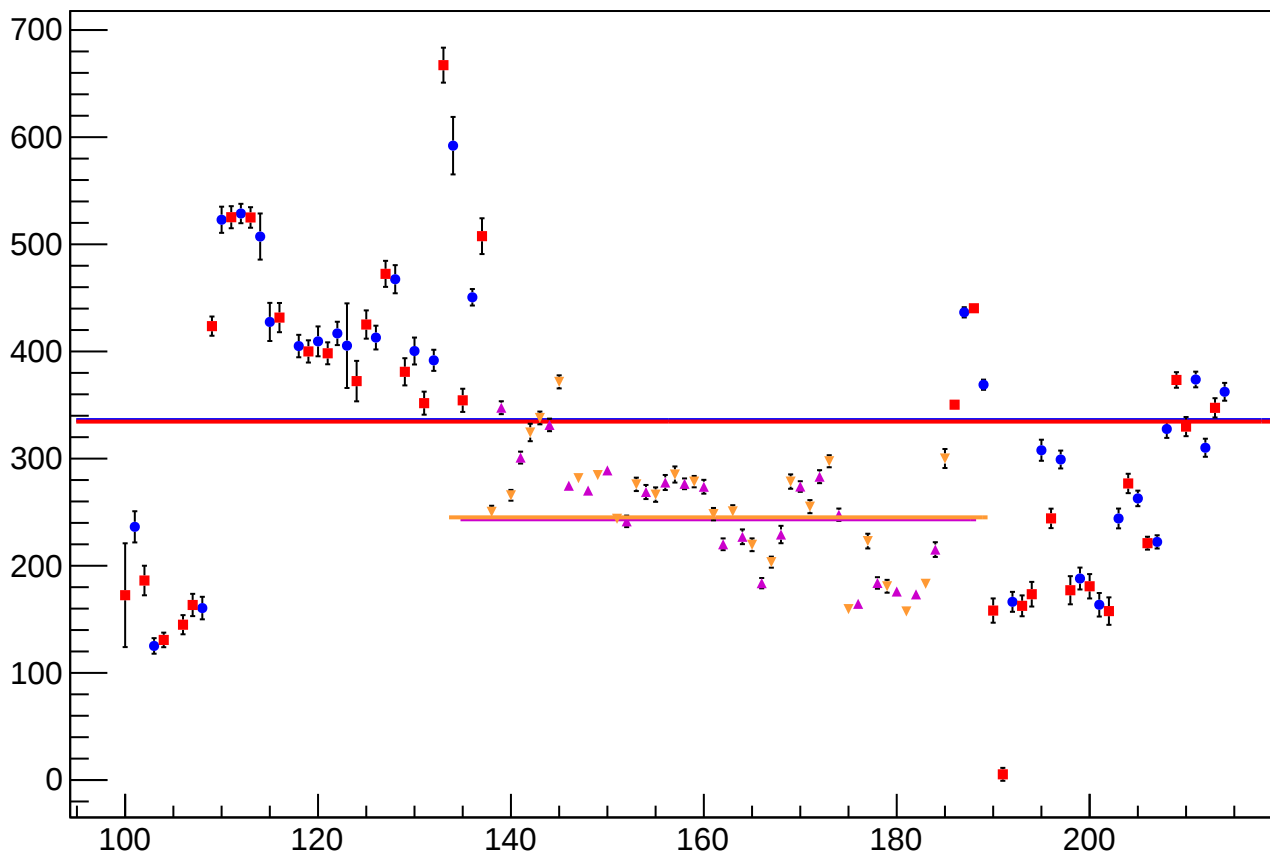
Right: 12.908 $\pm$ 0.901 χ^2 /NDF: 1246.1/64

In: 4.684 $\pm$ 0.712 χ^2 /NDF: 1250.6/53

Out: 6.200 $\pm$ 0.670 χ^2 /NDF: 1365.4/58

All: 5.489 $\pm$ 0.488 χ^2 /NDF: 2618.5/112

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 335.960 $\pm$ 1.602 χ^2 /NDF: 4484.6/30

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

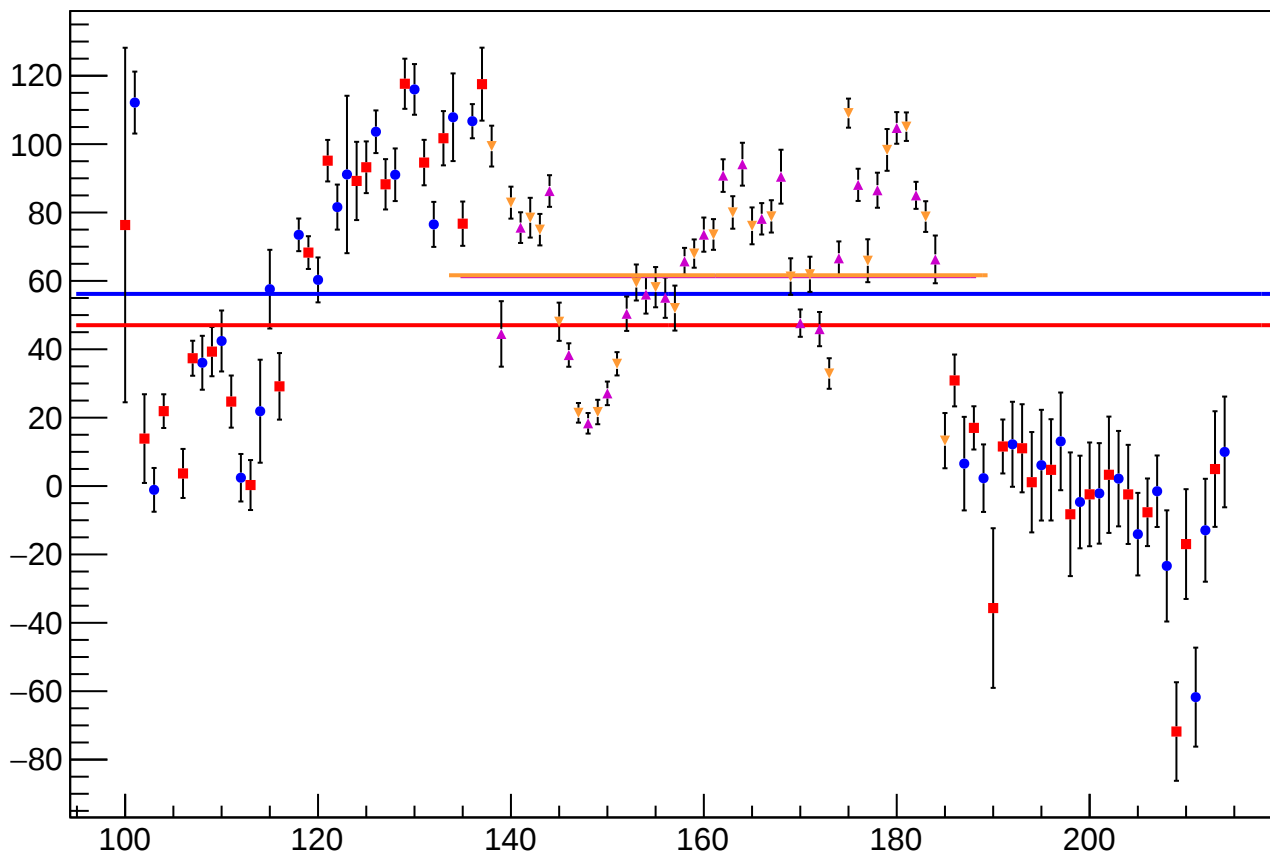
Right: 335.111 $\pm$ 1.017 χ^2 /NDF: 14584.6/64

In: 272.796 $\pm$ 0.903 χ^2 /NDF:8999.7/53

Out: 281.228 $\pm$ 0.836 χ^2 /NDF:15448.3/58

All: 277.339 $\pm$ 0.613 χ^2 /NDF: 24494.9/112

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 56.195 $\pm$ 1.584 χ^2 /NDF: 803.3/30

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF: 871.5/24

Right Out: 47.045 $\pm$ 1.431 χ^2 /NDF: 792.3/33

Left In: 61.375 $\pm$ 0.961 χ^2 /NDF: 699.7/22

Left: 61.515 $\pm$ 0.671 χ^2 /NDF: 1571.3/47

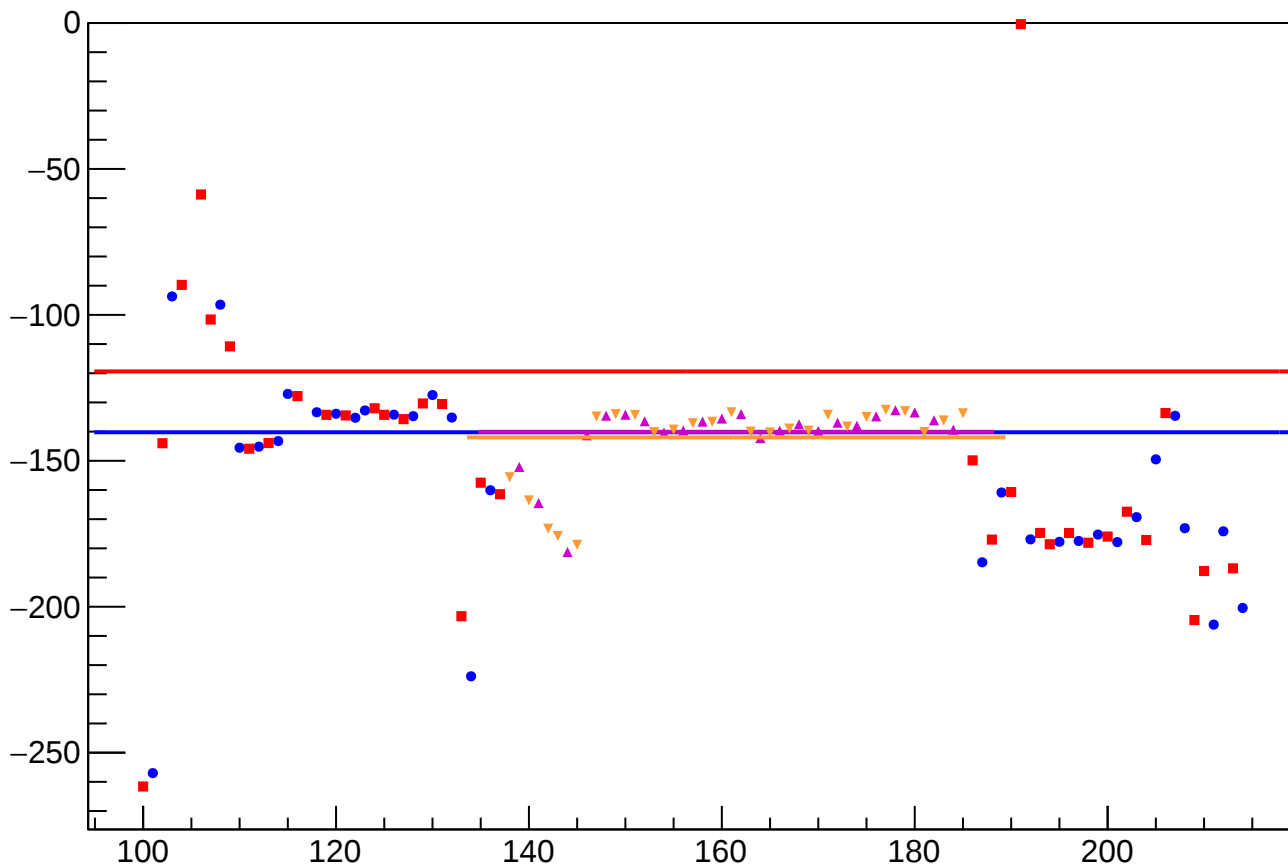
Right: 51.157 $\pm$ 1.062 χ^2 /NDF: 1614.0/64

In: 59.981 $\pm$ 0.822 χ^2 /NDF: 1510.8/53

Out: 57.270 $\pm$ 0.783 χ^2 /NDF: 1736.8/58

All: 58.561 $\pm$ 0.567 χ^2 /NDF: 3253.2/112

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -140.227+/-0.075 χ^2/NDF : 253082.6/30

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

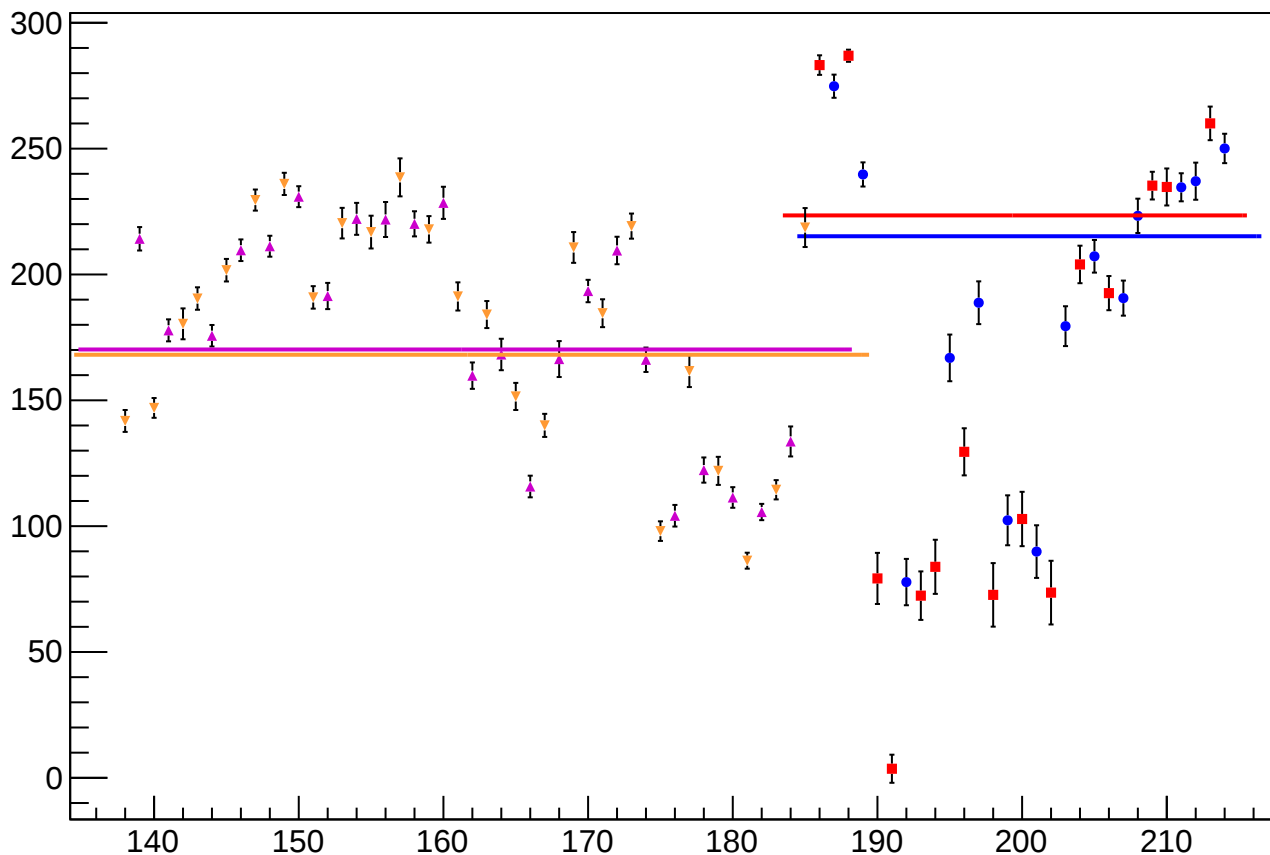
Right: -128.600+/-0.050 χ^2/NDF : 936803.4/64

In: -140.110+/-0.039 χ^2/NDF : 301116.5/53

Out: -134.959+/-0.037 χ^2/NDF : 799939.4/58

All: -137.436+/-0.027 χ^2/NDF : 1110318.2/111

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 215.189+/-1.799 χ^2/NDF : 818.8/13

Left Out: 168.106+/-0.970 χ^2/NDF : 2468.8/24

Right Out: 223.467+/-1.498 χ^2/NDF : 3668.4/14

Left In: 170.198+/-0.995 χ^2/NDF : 2024.5/22

Left: 169.125+/-0.695 χ^2/NDF : 4495.5/47

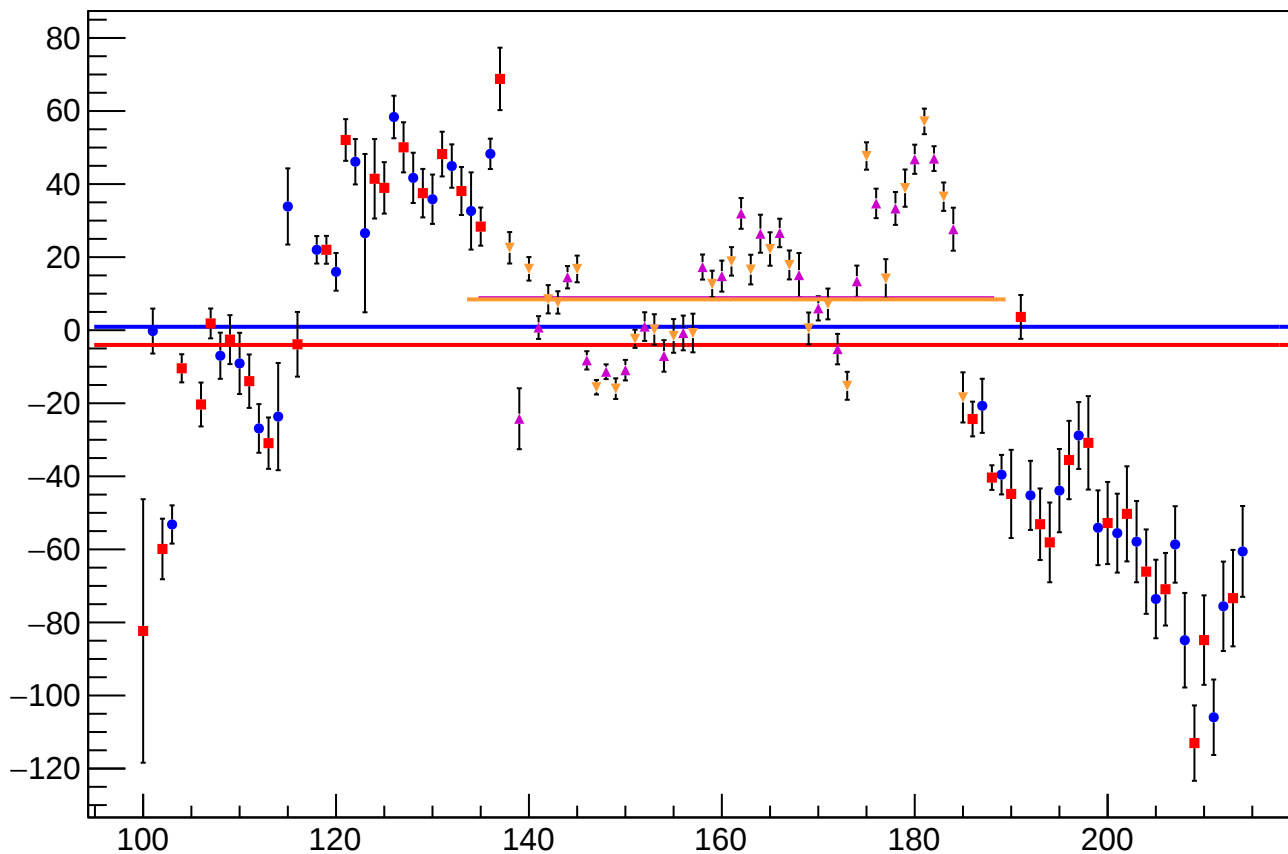
Right: 220.078+/-1.151 χ^2/NDF : 4499.7/28

In: 180.743+/-0.871 χ^2/NDF : 3322.1/36

Out: 184.468+/-0.814 χ^2/NDF : 7099.4/39

All: 182.730+/-0.595 χ^2/NDF : 10431.3/76

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.932 ± 1.293 $\chi^2/\text{NDF}: 1080.9/30$

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 $\chi^2/\text{NDF}: 1379.0/47$

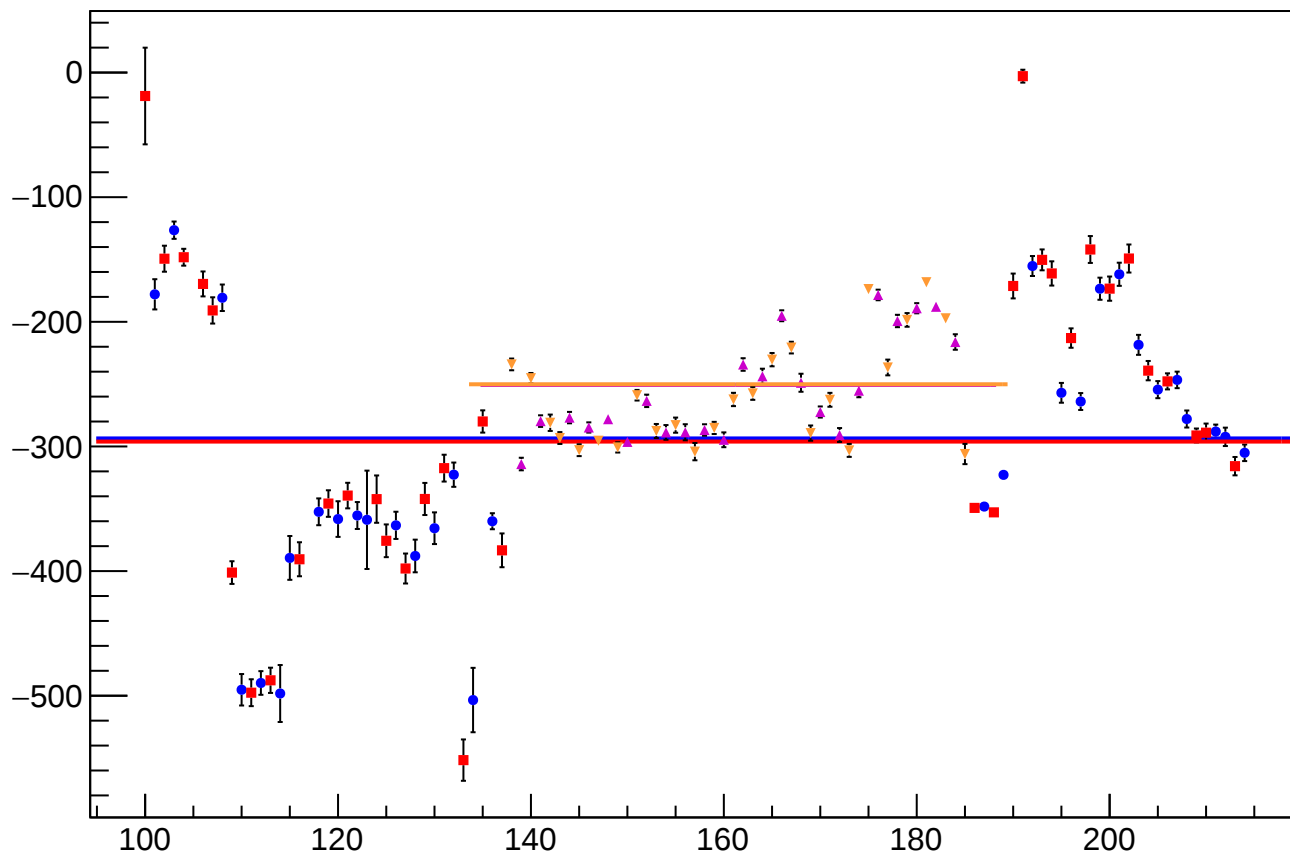
Right: -1.865 ± 0.855 $\chi^2/\text{NDF}: 2191.1/64$

In: 6.763 ± 0.654 $\chi^2/\text{NDF}: 1735.1/53$

Out: 4.820 ± 0.613 $\chi^2/\text{NDF}: 1939.0/58$

All: 5.729 ± 0.447 $\chi^2/\text{NDF}: 3678.8/112$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -293.561+/-1.409 χ^2 /NDF: 3135.1/30

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

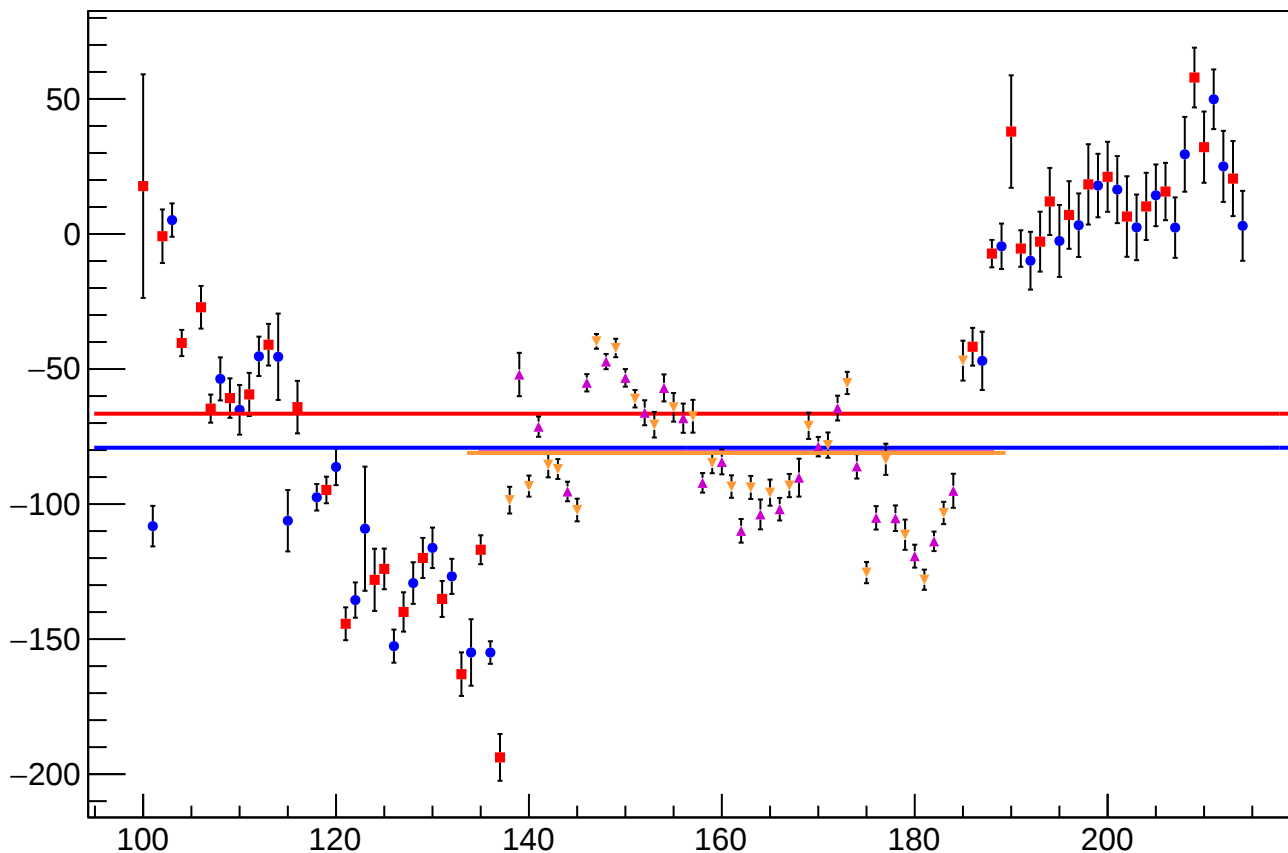
Right: -295.077+/-0.892 χ^2 /NDF: 11255.8/64

In: -264.821+/-0.810 χ^2 /NDF:5693.4/53

Out: -269.247+/-0.743 χ^2 /NDF:11295.8/58

All: -267.225+/-0.548 χ^2 /NDF: 17005.5/112

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -79.134 ± 1.498 $\chi^2/\text{NDF}: 1773.3/30$

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 $\chi^2/\text{NDF}: 1606.2/47$

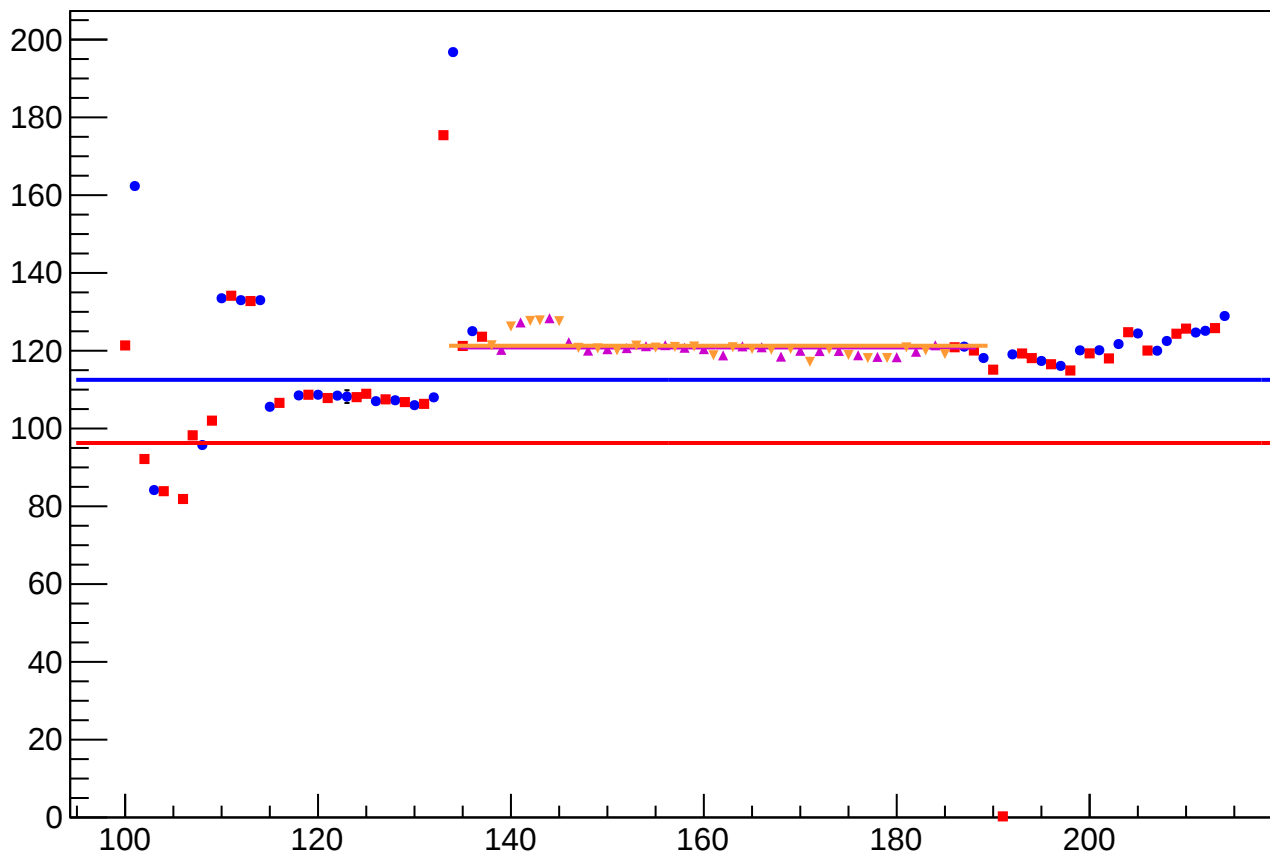
Right: -72.241 ± 1.008 $\chi^2/\text{NDF}: 3701.9/64$

In: -80.404 ± 0.754 $\chi^2/\text{NDF}: 2467.4/53$

Out: -77.039 ± 0.717 $\chi^2/\text{NDF}: 2885.1/58$

All: -78.638 ± 0.519 $\chi^2/\text{NDF}: 5362.9/112$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.519 $\pm$ 0.069 χ^2 /NDF: 80556.1/30

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

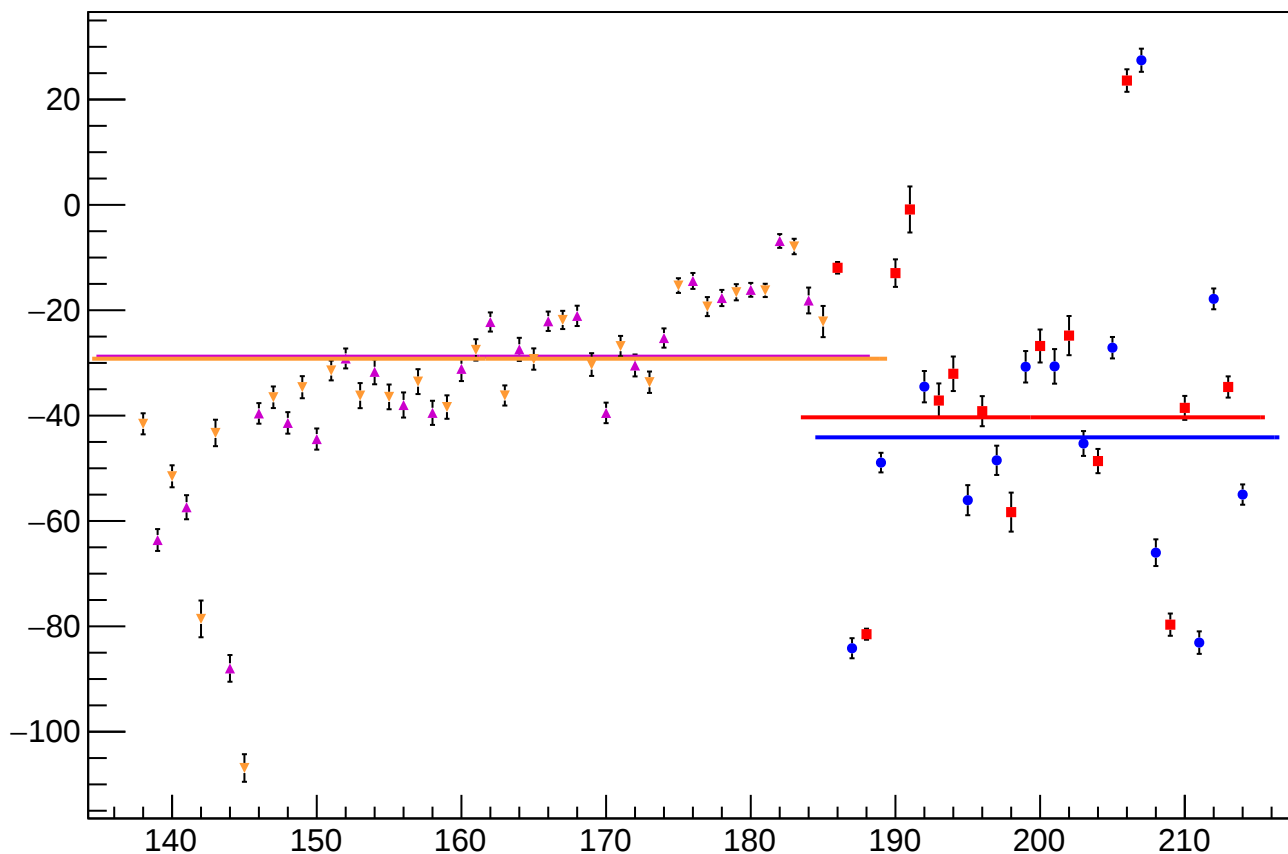
Right: 103.449 $\pm$ 0.046 χ^2 /NDF: 482194.0/64

In: 118.700 $\pm$ 0.035 χ^2 /NDF: 94694.3/53

Out: 113.815 $\pm$ 0.034 χ^2 /NDF: 491850.7/58

All: 116.152 $\pm$ 0.024 χ^2 /NDF: 596667.4/112

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -44.125 ± 0.613 $\chi^2/\text{NDF}: 2263.3/13$

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 $\chi^2/\text{NDF}: 3645.8/47$

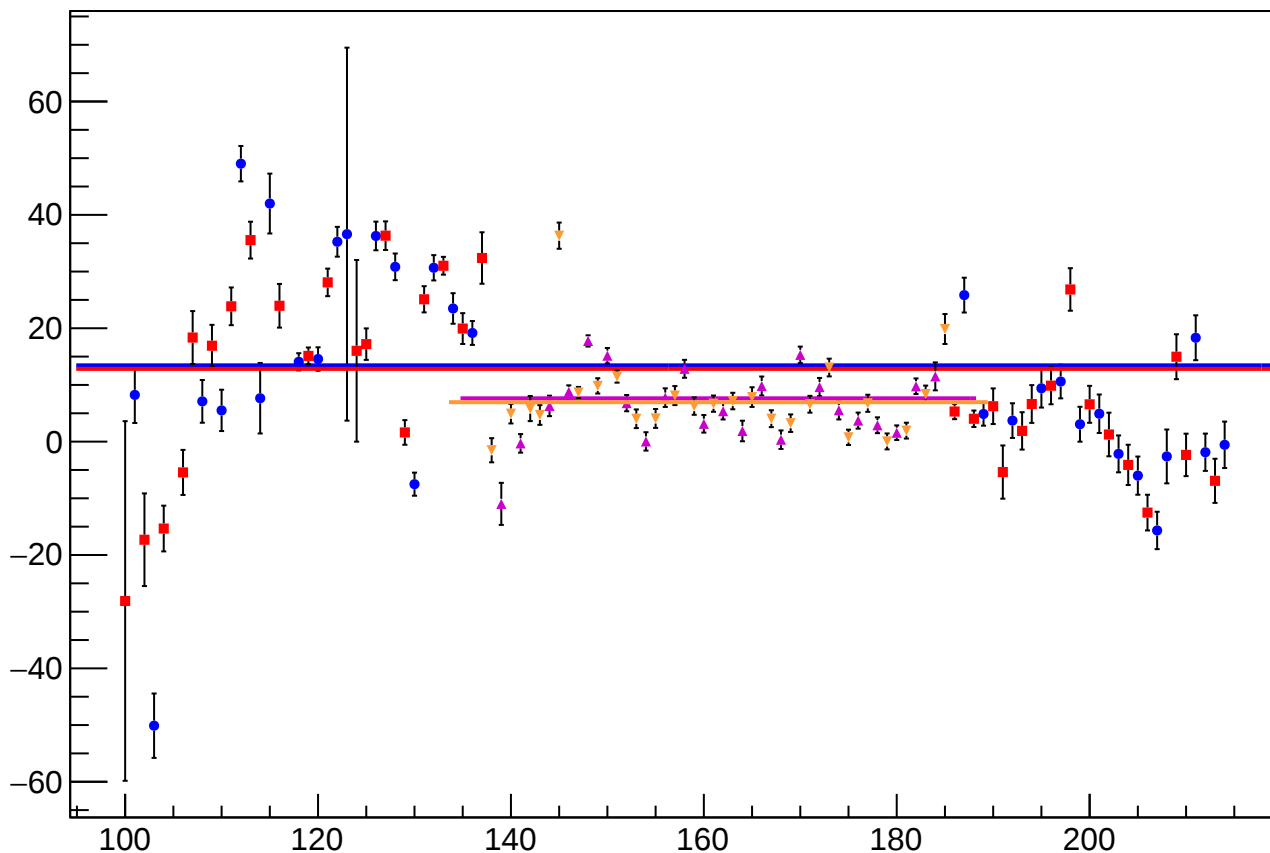
Right: -41.949 ± 0.401 $\chi^2/\text{NDF}: 6014.3/28$

In: -33.311 ± 0.332 $\chi^2/\text{NDF}: 4468.1/36$

Out: -33.093 ± 0.313 $\chi^2/\text{NDF}: 5897.5/39$

All: -33.195 ± 0.228 $\chi^2/\text{NDF}: 10365.8/76$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.457 ± 0.519 χ^2/NDF : 930.7/30

Left Out: 6.960 ± 0.303 χ^2/NDF : 321.3/24

Right Out: 12.837 ± 0.473 χ^2/NDF : 760.5/33

Left In: 7.638 ± 0.313 χ^2/NDF : 337.7/22

Left: 7.287 ± 0.218 χ^2/NDF : 661.5/47

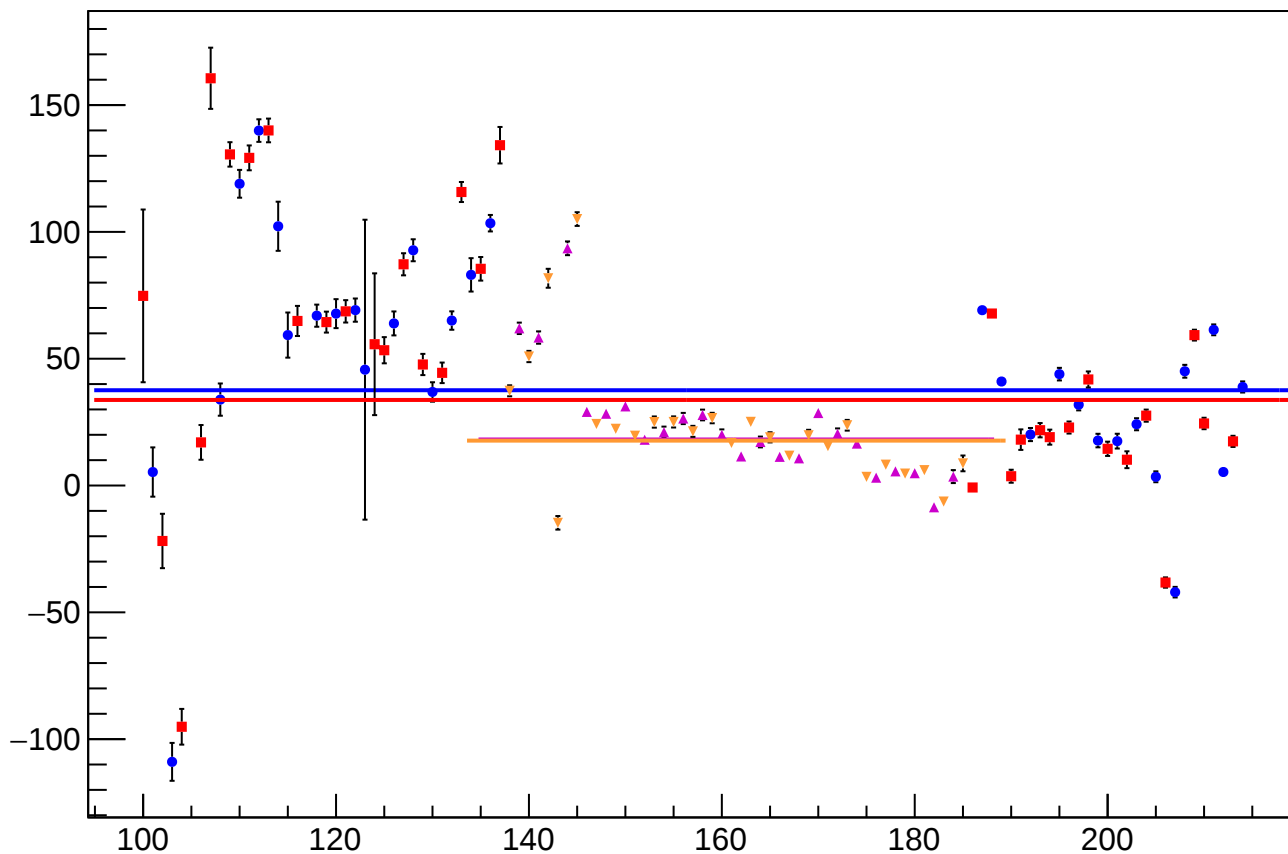
Right: 13.118 ± 0.349 χ^2/NDF : 1692.0/64

In: 9.194 ± 0.268 χ^2/NDF : 1360.5/53

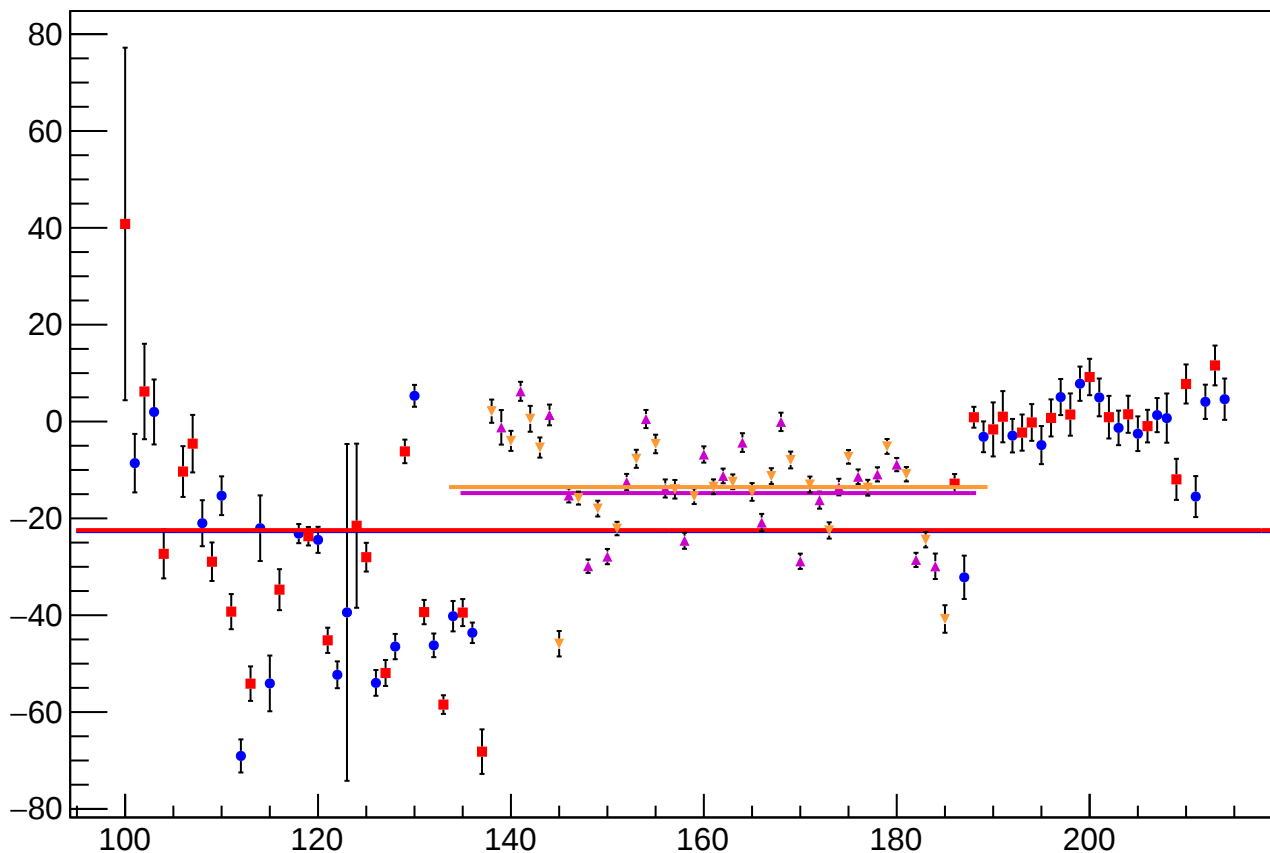
Out: 8.671 ± 0.255 χ^2/NDF : 1191.4/58

All: 8.919 ± 0.185 χ^2/NDF : 2553.9/112

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -22.628 ± 0.600 $\chi^2/\text{NDF}: 1460.5/30$

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 $\chi^2/\text{NDF}: 1417.2/47$

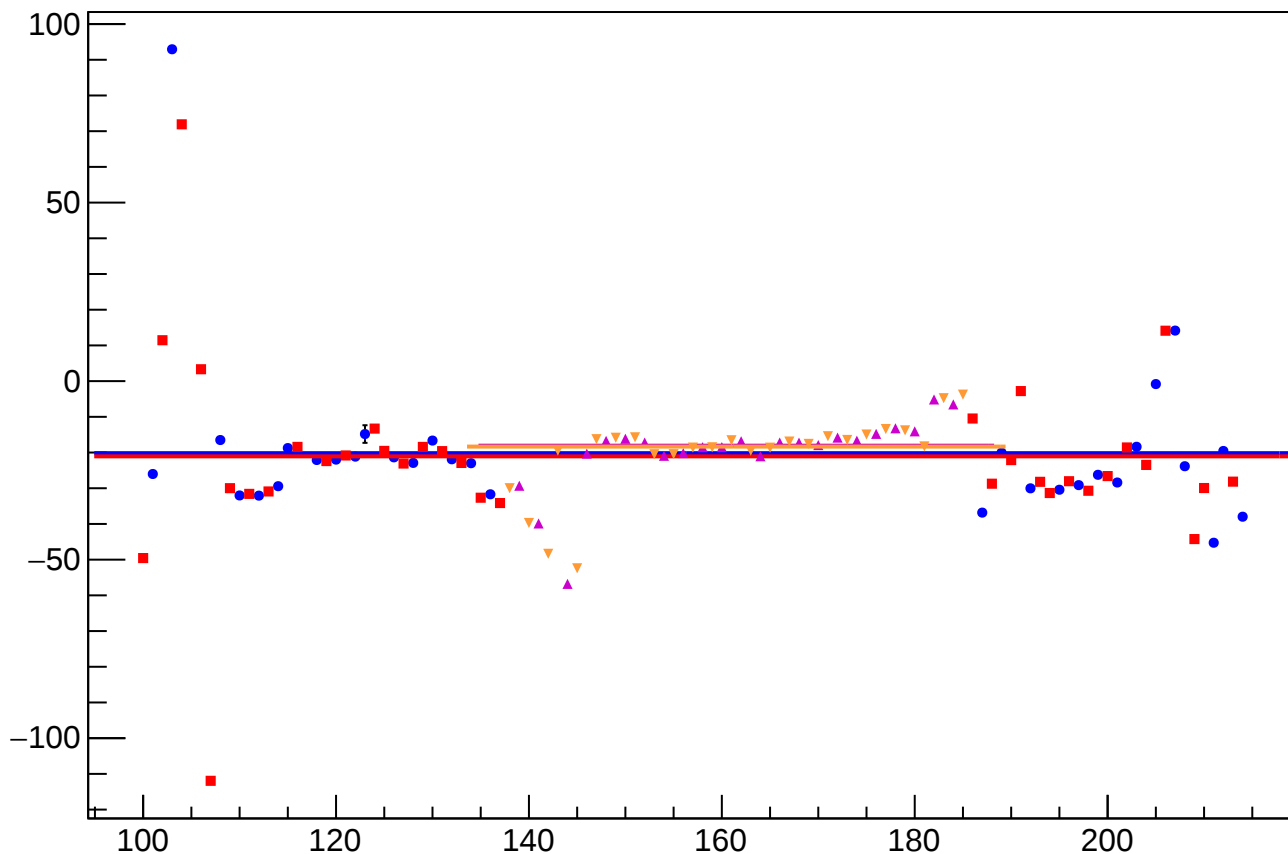
Right: -22.519 ± 0.413 $\chi^2/\text{NDF}: 2989.9/64$

In: -16.806 ± 0.305 $\chi^2/\text{NDF}: 2425.5/53$

Out: -15.915 ± 0.294 $\chi^2/\text{NDF}: 2281.2/58$

All: -16.344 ± 0.212 $\chi^2/\text{NDF}: 4711.1/112$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.179+/-0.029 χ^2/NDF : 618117.2/30

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

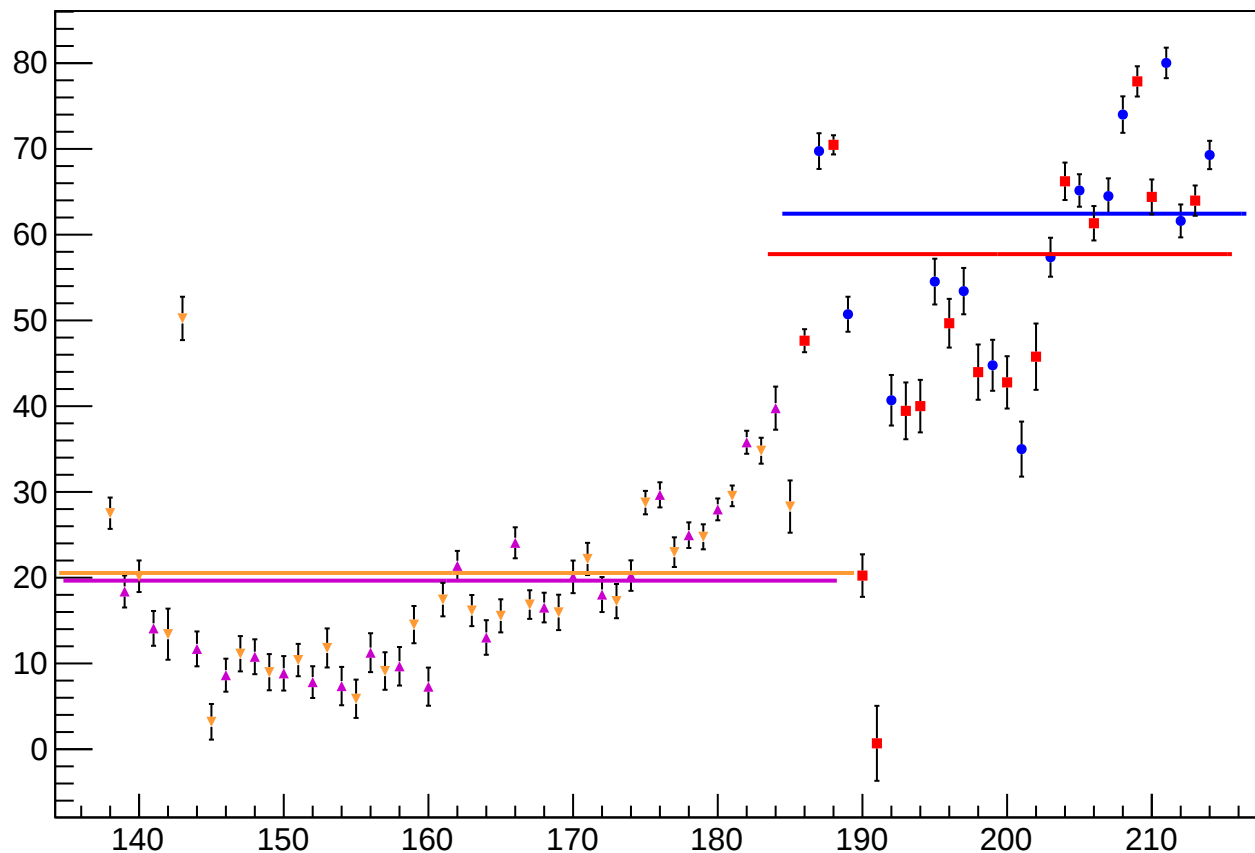
Right: -20.641+/-0.020 χ^2/NDF : 1197936.0/64

In: -18.586+/-0.014 χ^2/NDF : 864138.8/53

Out: -19.013+/-0.014 χ^2/NDF : 870869.8/58

All: -18.804+/-0.010 χ^2/NDF : 1735482.1/112

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 62.445 $\pm$ 0.582 χ^2 /NDF: 380.8/13

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

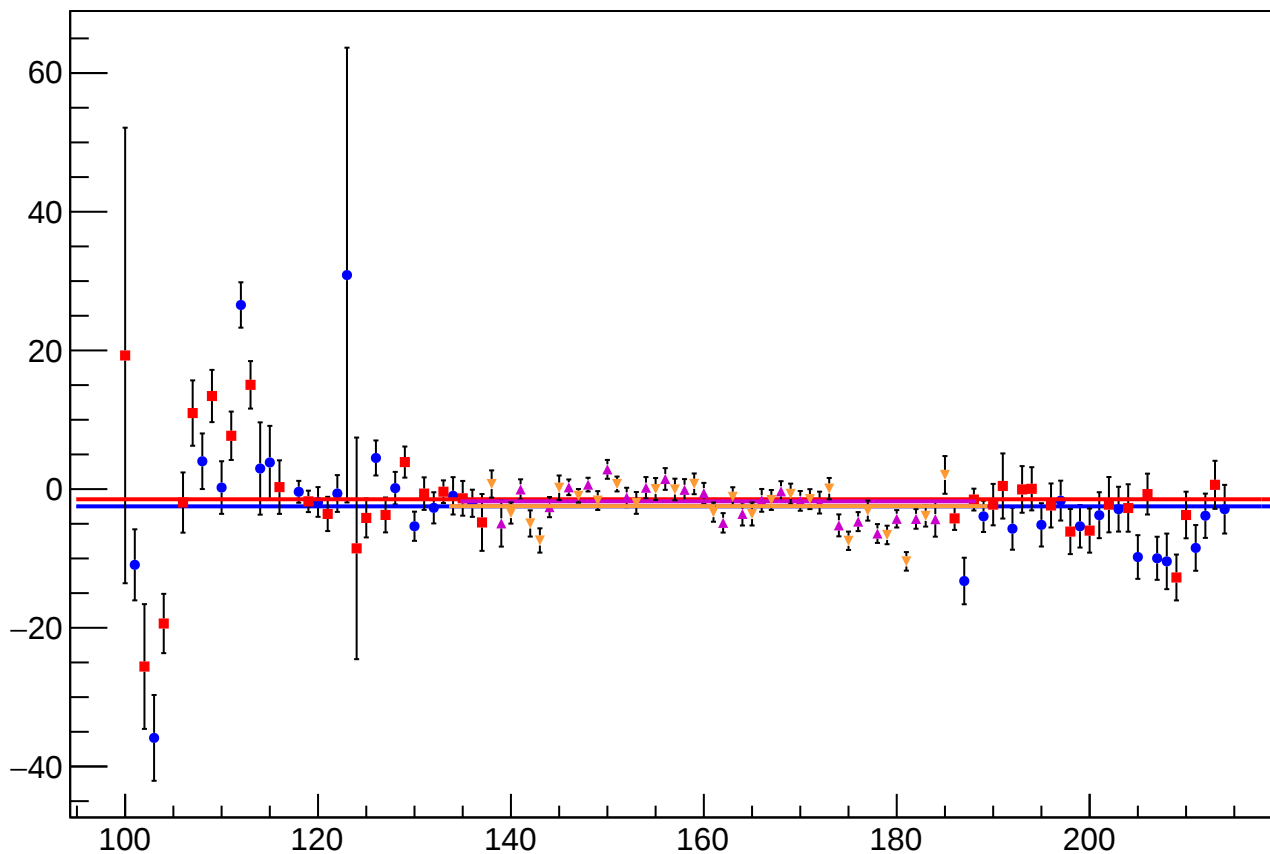
Right: 59.887 $\pm$ 0.394 χ^2 /NDF: 1297.7/28

In: 32.469 $\pm$ 0.318 χ^2 /NDF:4741.4/36

Out: 32.738 $\pm$ 0.306 χ^2 /NDF:4763.8/39

All: 32.609 $\pm$ 0.221 χ^2 /NDF: 9505.5/76

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.486 ± 0.518 $\chi^2/\text{NDF}: 162.6/30$

Left Out: -2.455 ± 0.292 $\chi^2/\text{NDF}: 106.0/24$

Right Out: -1.464 ± 0.485 $\chi^2/\text{NDF}: 107.9/33$

Left In: -1.758 ± 0.302 $\chi^2/\text{NDF}: 67.4/22$

Left: -2.118 ± 0.210 $\chi^2/\text{NDF}: 176.1/47$

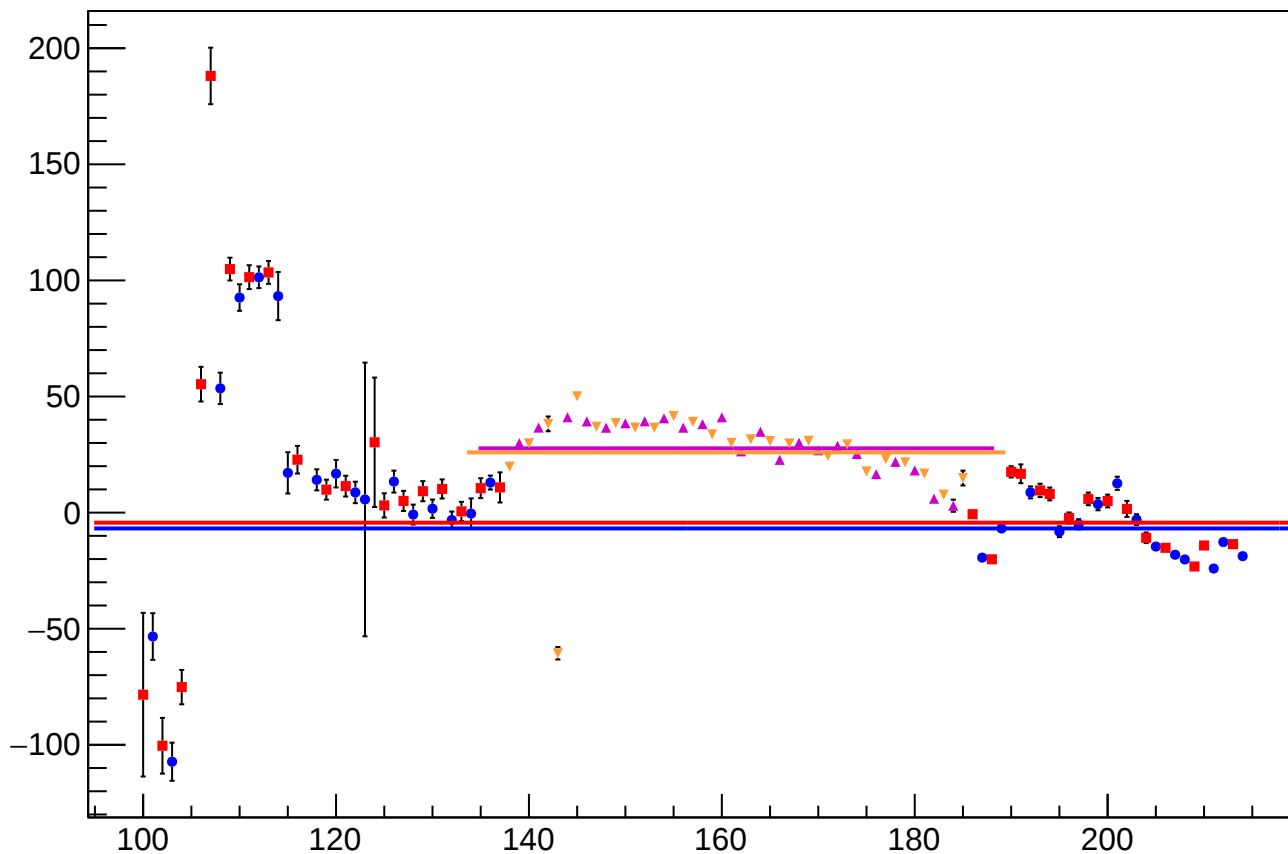
Right: -1.941 ± 0.354 $\chi^2/\text{NDF}: 272.6/64$

In: -1.943 ± 0.261 $\chi^2/\text{NDF}: 231.5/53$

Out: -2.191 ± 0.250 $\chi^2/\text{NDF}: 217.0/58$

All: -2.072 ± 0.181 $\chi^2/\text{NDF}: 449.0/112$

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -6.818 ± 0.506 χ^2/NDF : 1698.5/30

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

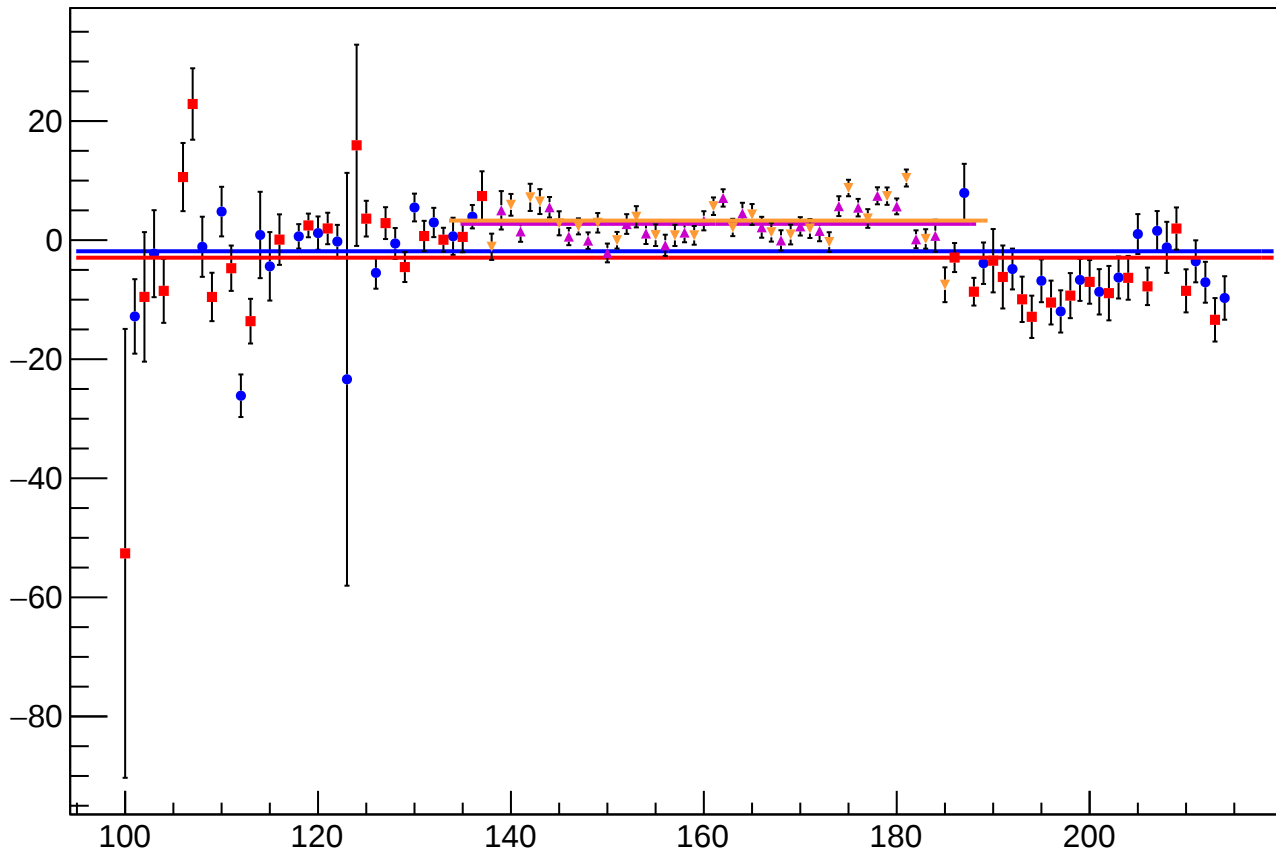
Right: -5.419 ± 0.334 χ^2/NDF : 4373.5/64

In: 15.319 ± 0.303 χ^2/NDF : 5482.4/53

Out: 13.493 ± 0.286 χ^2/NDF : 7090.7/58

All: 14.352 ± 0.208 χ^2/NDF : 12592.3/112

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.868 ± 0.594 χ^2/NDF : 111.4/30

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

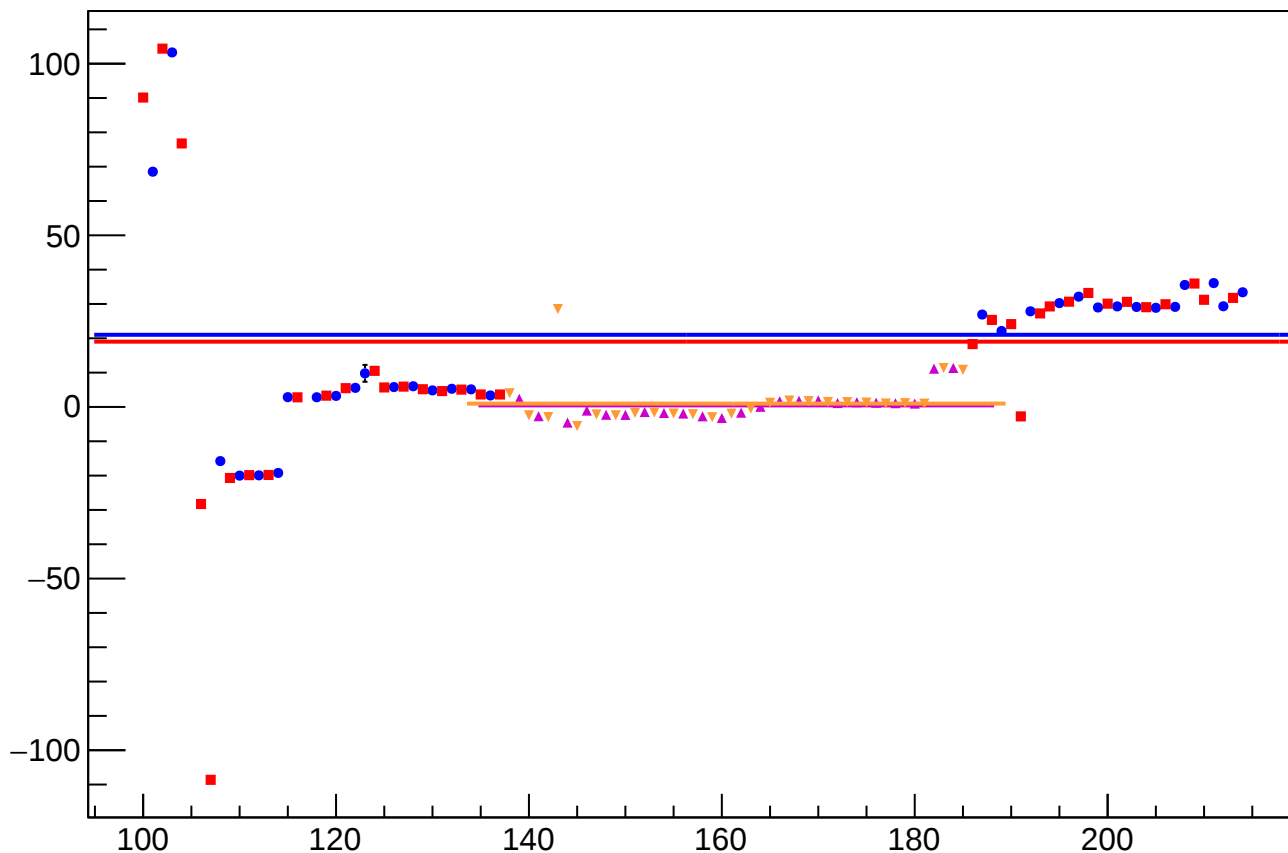
Right: -2.425 ± 0.413 χ^2/NDF : 229.4/64

In: 1.596 ± 0.296 χ^2/NDF : 221.1/53

Out: 1.731 ± 0.287 χ^2/NDF : 306.6/58

All: 1.665 ± 0.206 χ^2/NDF : 527.8/112

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 21.024+/-0.028 χ^2/NDF : 512482.6/30

Left Out: 0.979+/-0.015 χ^2/NDF : 117391.3/24

Right Out: 19.020+/-0.027 χ^2/NDF : 745267.0/33

Left In: 0.451+/-0.015 χ^2/NDF : 50699.8/22

Left: 0.719+/-0.011 χ^2/NDF : 168685.3/47

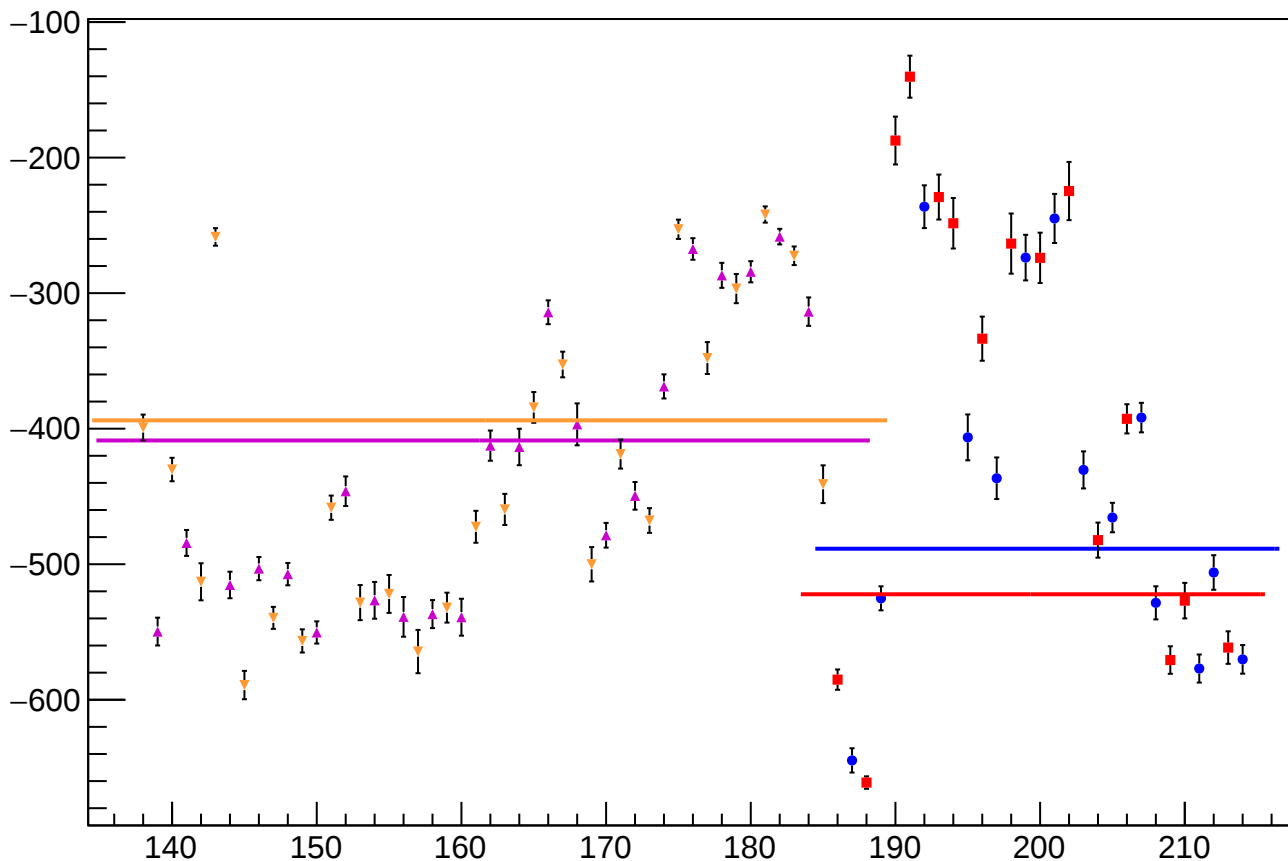
Right: 19.995+/-0.019 χ^2/NDF : 1260392.1/64

In: 5.260+/-0.014 χ^2/NDF : 978636.4/53

Out: 5.272+/-0.013 χ^2/NDF : 1198281.8/58

All: 5.266+/-0.009 χ^2/NDF : 2176918.7/112

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -488.565+/-3.213 χ^2 /NDF: 1201.8/13

Left Out: -393.871+/-1.897 χ^2 /NDF:3772.8/24

Right Out: -522.168+/-2.806 χ^2 /NDF: 3308.2/14

Left In: -408.696+/-1.979 χ^2 /NDF:3062.9/22

Left: -400.970+/-1.369 χ^2 /NDF: 6864.9/47

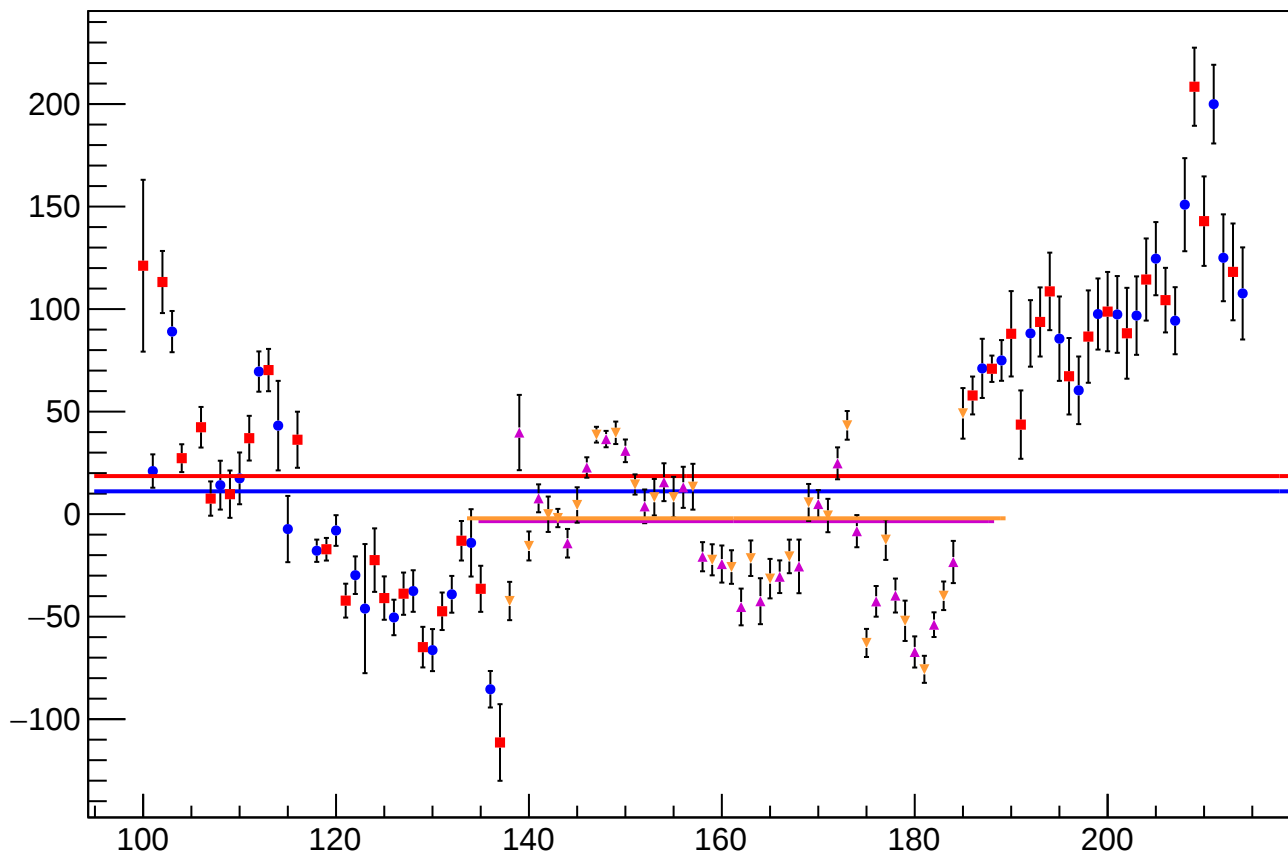
Right: -507.624+/-2.114 χ^2 /NDF: 4572.0/28

In: -430.667+/-1.685 χ^2 /NDF:4712.7/36

Out: -434.109+/-1.572 χ^2 /NDF:8515.5/39

All: -432.507+/-1.149 χ^2 /NDF: 13230.4/76

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 11.120 $\pm$ 2.085 χ^2 /NDF: 858.3/30

Left Out: -2.037 $\pm$ 1.424 χ^2 /NDF:563.8/24

Right Out: 18.556 $\pm$ 1.937 χ^2 /NDF: 841.7/33

Left In: -3.420 $\pm$ 1.520 χ^2 /NDF:451.0/22

Left: -2.683 $\pm$ 1.039 χ^2 /NDF: 1015.2/47

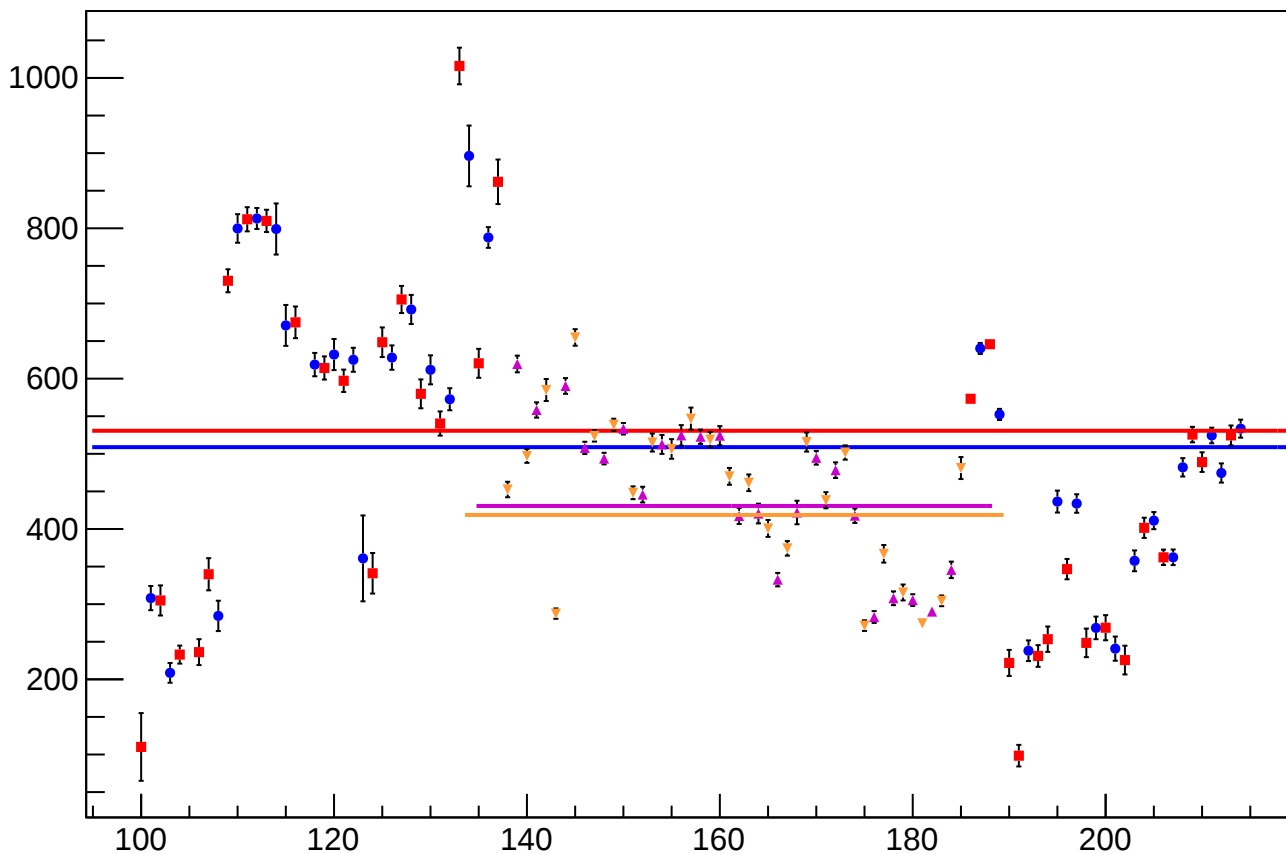
Right: 15.111 $\pm$ 1.419 χ^2 /NDF: 1706.8/64

In: 1.626 $\pm$ 1.228 χ^2 /NDF:1341.1/53

Out: 5.188 $\pm$ 1.147 χ^2 /NDF:1478.8/58

All: 3.528 $\pm$ 0.839 χ^2 /NDF: 2824.3/112

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 508.859 $\pm$ 2.458 χ^2 /NDF: 4201.9/30

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

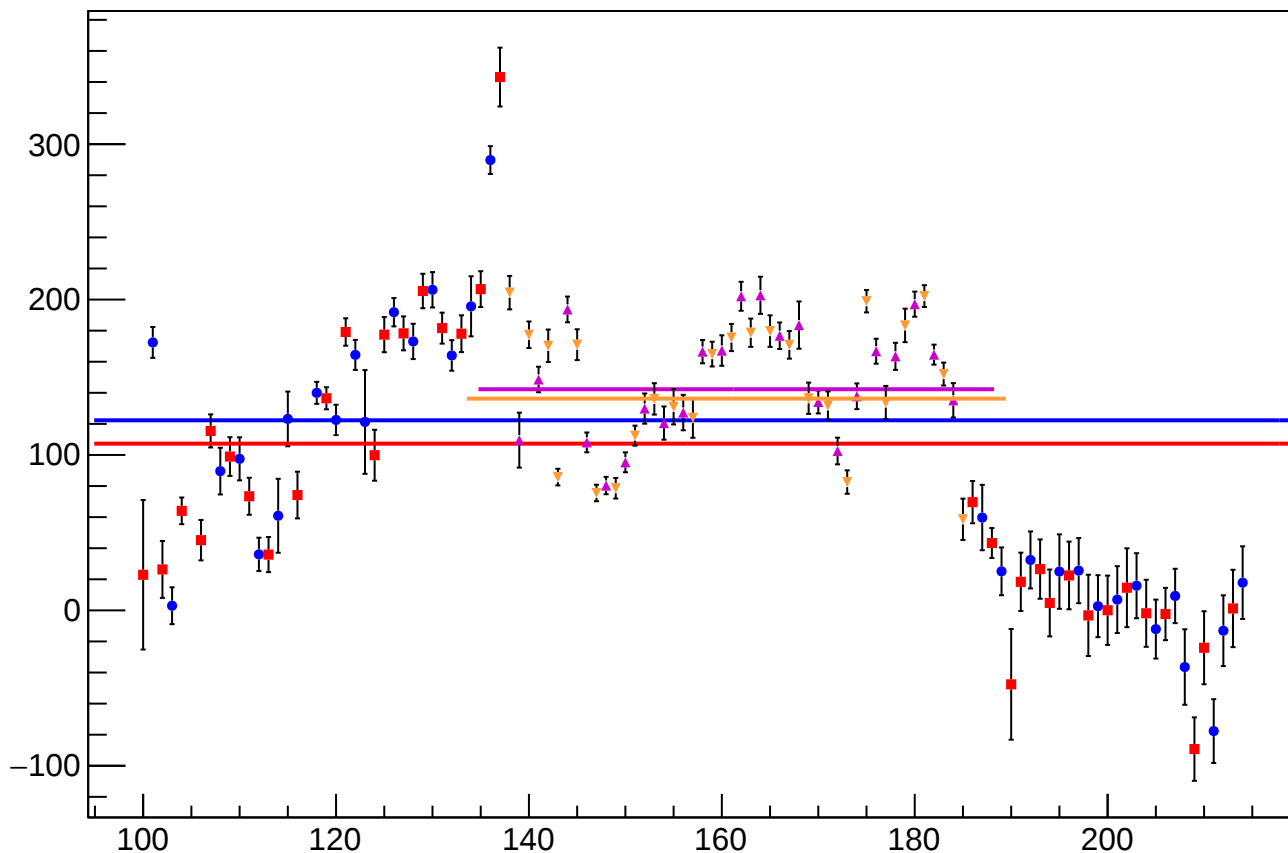
Right: 521.466 $\pm$ 1.597 χ^2 /NDF: 11335.5/64

In: 461.250 $\pm$ 1.537 χ^2 /NDF:7669.0/53

Out: 469.234 $\pm$ 1.411 χ^2 /NDF:11944.8/58

All: 465.584 $\pm$ 1.040 χ^2 /NDF: 19628.4/112

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 122.307 ± 2.426 $\chi^2/\text{NDF}: 1232.8/30$

Left Out: 136.258 ± 1.651 $\chi^2/\text{NDF}: 758.3/24$

Right Out: 107.289 ± 2.300 $\chi^2/\text{NDF}: 1101.4/33$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

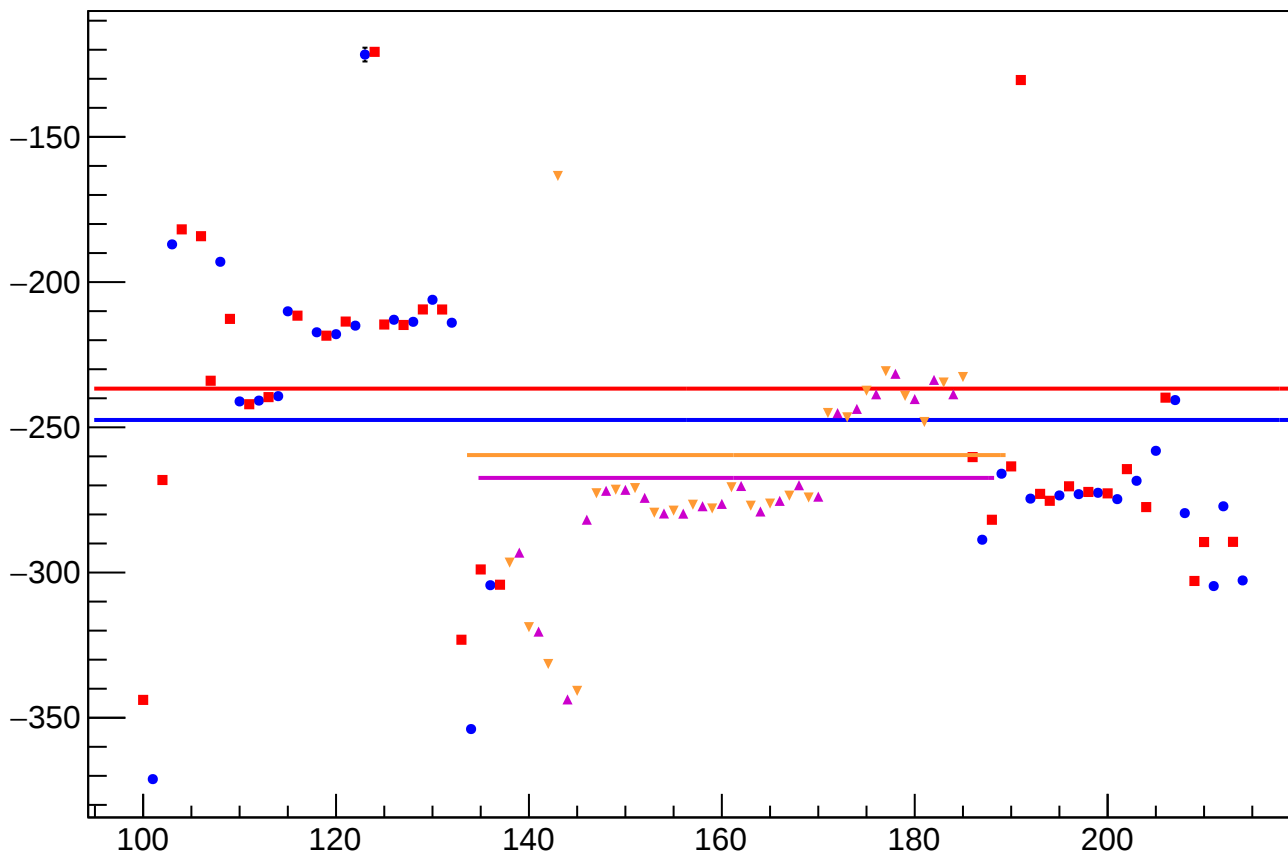
Right: 114.398 ± 1.669 $\chi^2/\text{NDF}: 2354.3/64$

In: 135.481 ± 1.416 $\chi^2/\text{NDF}: 1737.3/53$

Out: 126.406 ± 1.341 $\chi^2/\text{NDF}: 1964.4/58$

All: 130.696 ± 0.974 $\chi^2/\text{NDF}: 3723.3/112$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -247.468+/-0.120 χ^2 /NDF: 171303.9/30

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

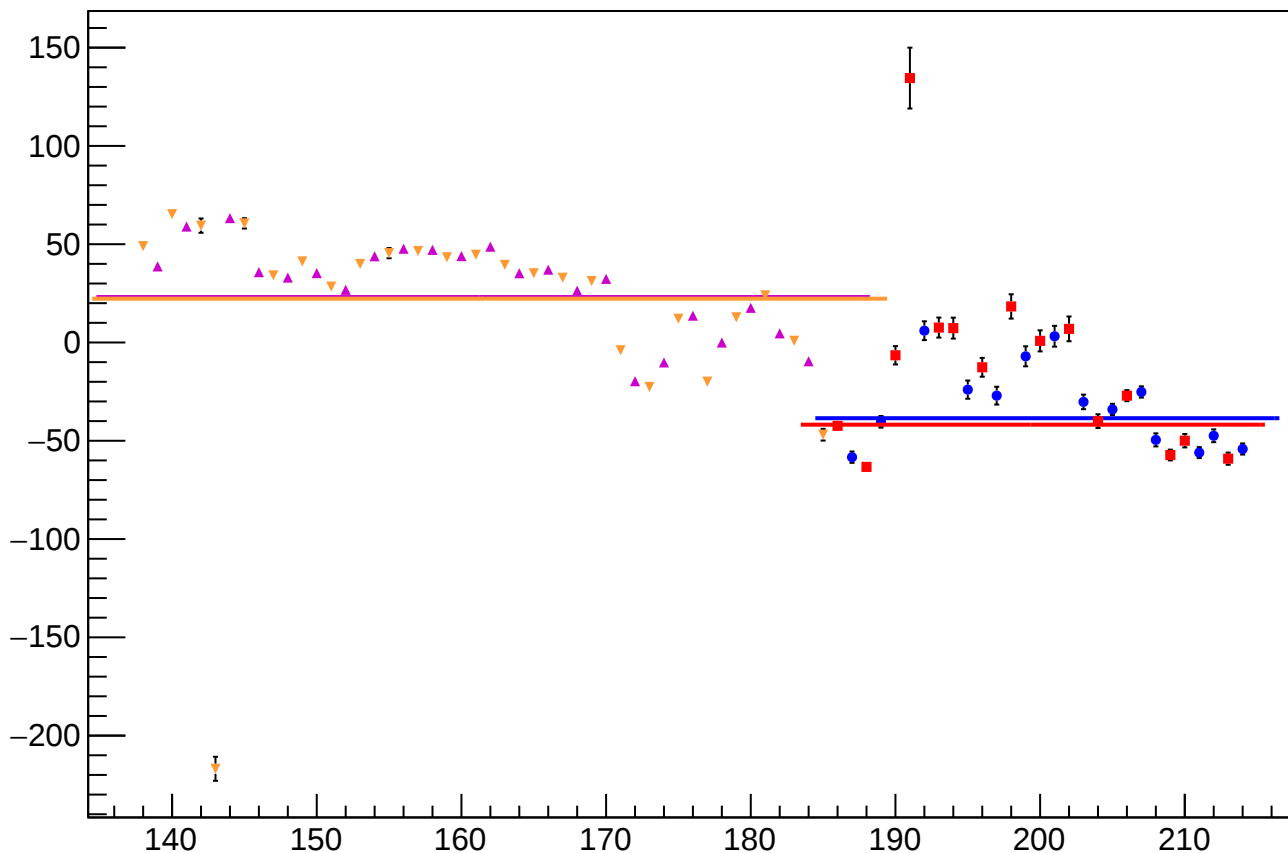
Right: -241.696+/-0.082 χ^2 /NDF: 359039.7/64

In: -261.135+/-0.068 χ^2 /NDF:288127.7/53

Out: -251.976+/-0.065 χ^2 /NDF:449409.3/58

All: -256.353+/-0.047 χ^2 /NDF: 747120.9/112

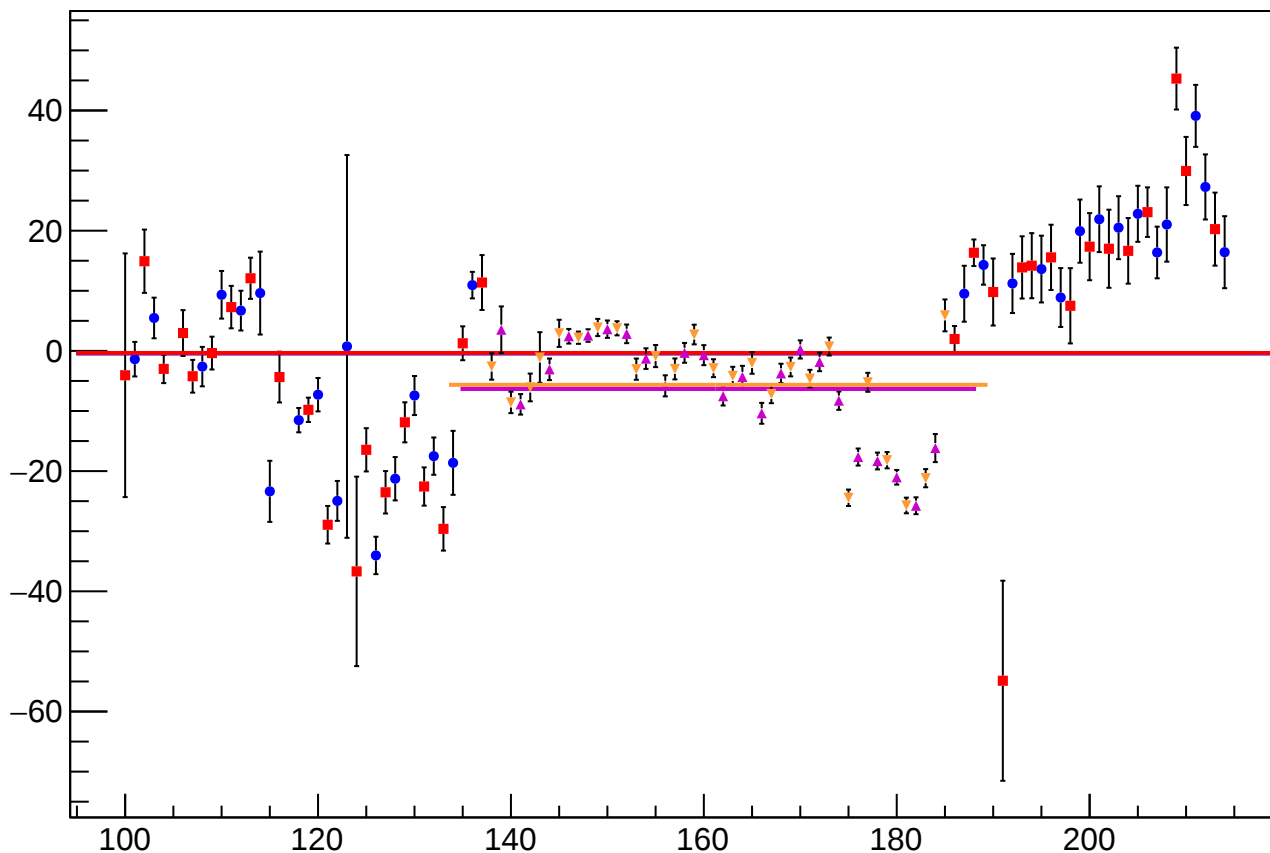
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -38.517 ± 0.911 χ^2/NDF : 368.5/13
 Left Out: 22.279 ± 0.399 χ^2/NDF : 5171.0/24
 Right Out: -41.815 ± 0.810 χ^2/NDF : 906.7/14
 Left In: 23.136 ± 0.401 χ^2/NDF : 2744.7/22

Left: 22.705 ± 0.283 χ^2/NDF : 7918.0/47
 Right: -40.359 ± 0.605 χ^2/NDF : 1282.5/28
 In: 13.112 ± 0.367 χ^2/NDF : 6948.1/36
 Out: 9.780 ± 0.358 χ^2/NDF : 11116.0/39
 All: 11.402 ± 0.256 χ^2/NDF : 18106.3/76

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.431 ± 0.676 χ^2/NDF : 583.9/30

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

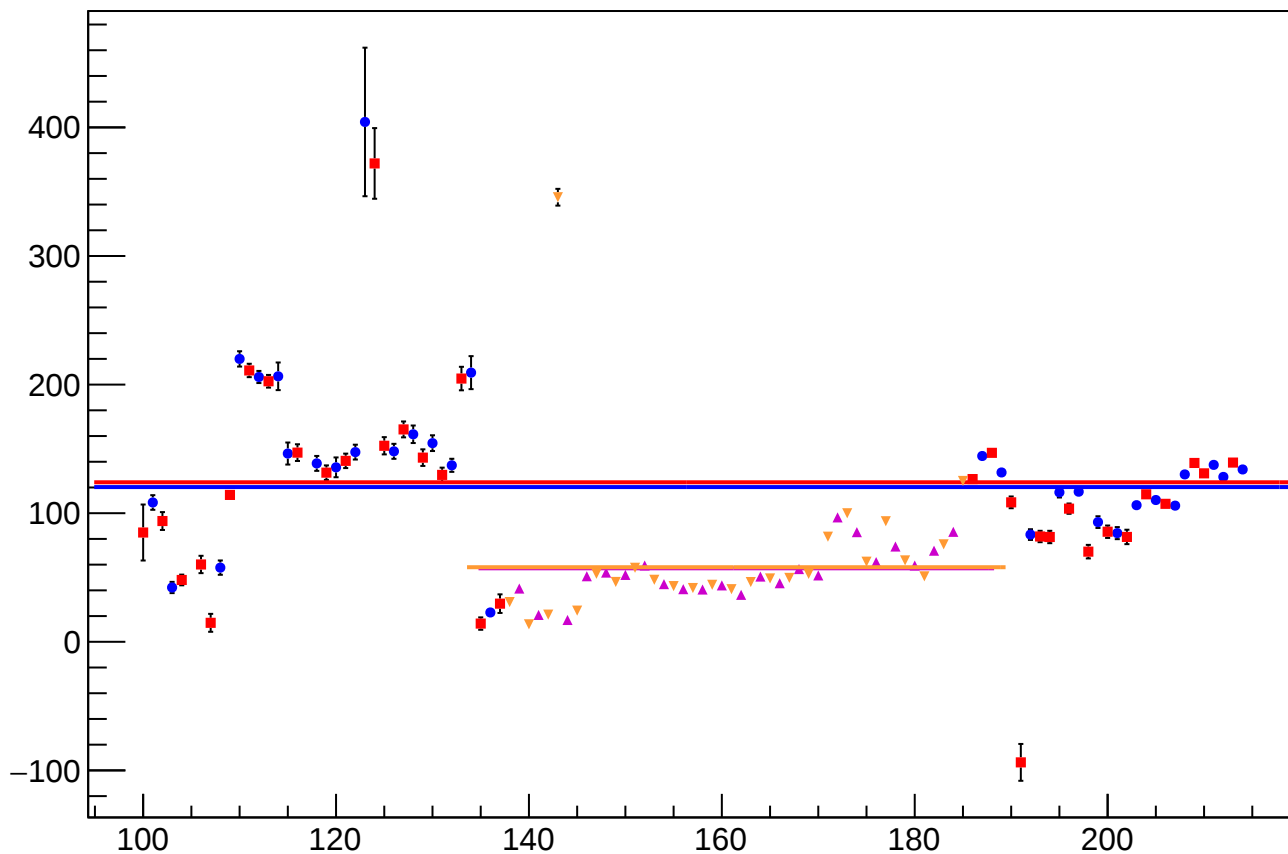
Right: -0.385 ± 0.459 χ^2/NDF : 1197.0/64

In: -5.250 ± 0.290 χ^2/NDF : 1429.1/53

Out: -4.568 ± 0.282 χ^2/NDF : 1564.0/58

All: -4.899 ± 0.202 χ^2/NDF : 2995.9/112

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 120.313 $\pm$ 0.735 χ^2 /NDF: 2588.0/30

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

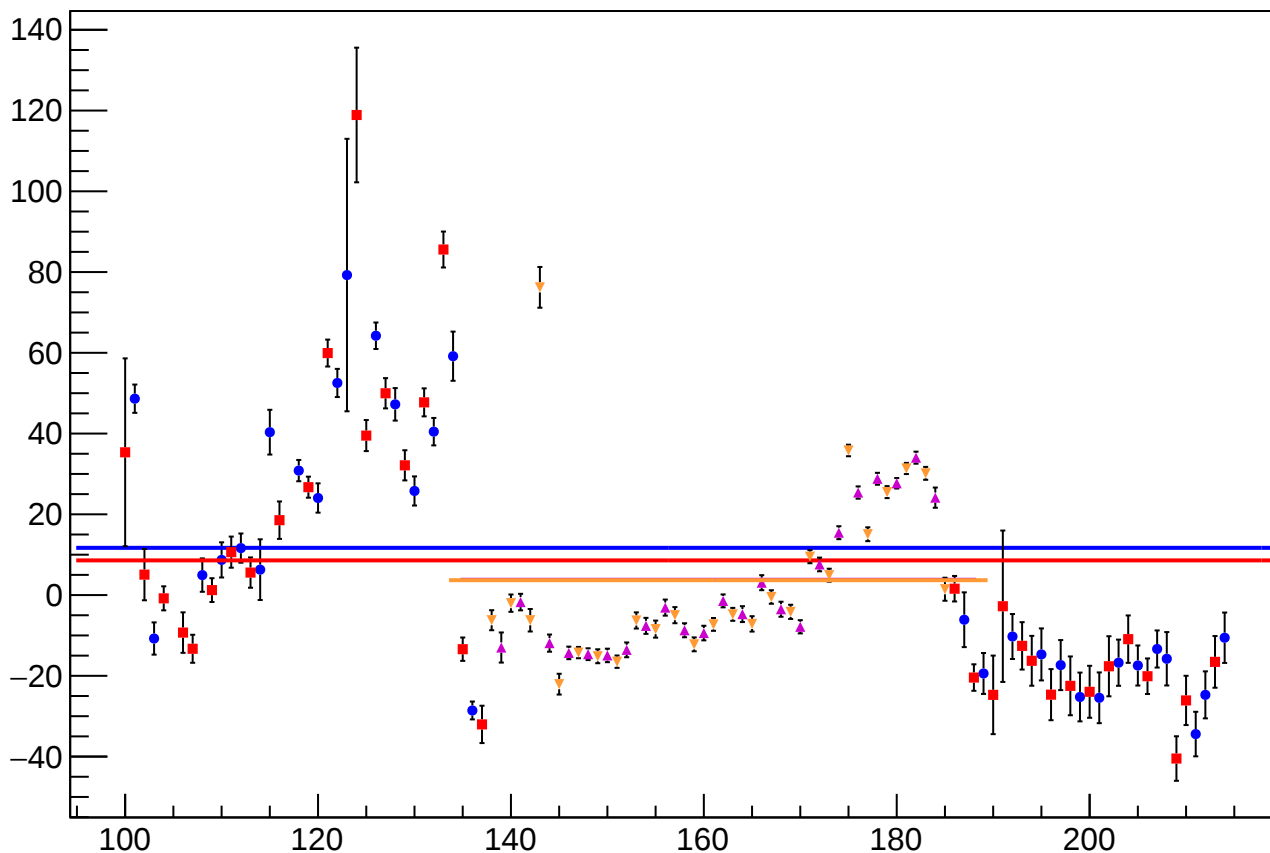
Right: 122.459 $\pm$ 0.478 χ^2 /NDF: 5875.1/64

In: 71.551 $\pm$ 0.351 χ^2 /NDF:10094.6/53

Out: 76.821 $\pm$ 0.336 χ^2 /NDF:15761.8/58

All: 74.297 $\pm$ 0.243 χ^2 /NDF: 25973.9/112

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.700 $\pm$ 0.776 χ^2 /NDF: 1590.9/30

Left Out: 3.684 $\pm$ 0.357 χ^2 /NDF:2541.7/24

Right Out: 8.589 $\pm$ 0.740 χ^2 /NDF: 1581.9/33

Left In: 3.786 $\pm$ 0.362 χ^2 /NDF:2198.8/22

Left: 3.734 $\pm$ 0.254 χ^2 /NDF: 4740.5/47

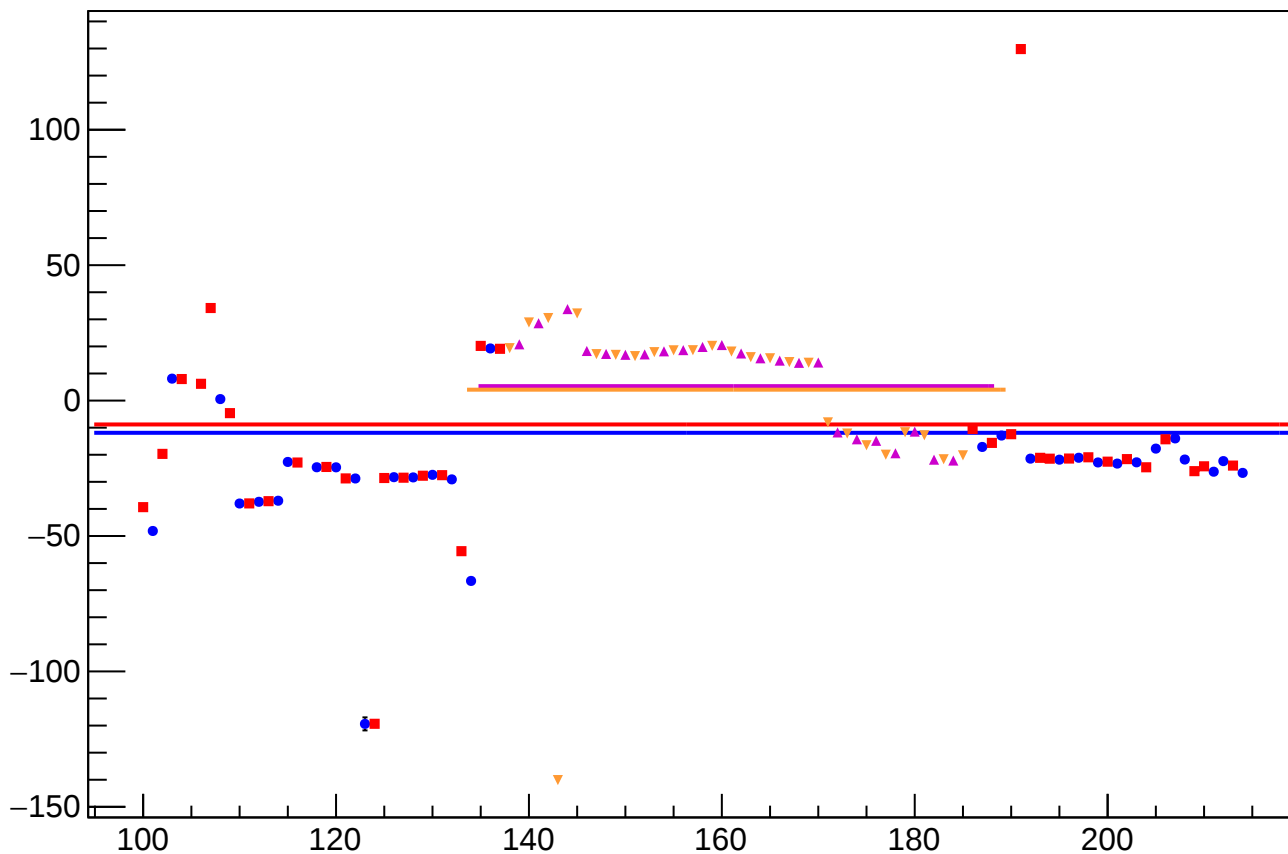
Right: 10.070 $\pm$ 0.536 χ^2 /NDF: 3181.3/64

In: 5.198 $\pm$ 0.328 χ^2 /NDF:3875.1/53

Out: 4.609 $\pm$ 0.321 χ^2 /NDF:4159.2/58

All: 4.897 $\pm$ 0.230 χ^2 /NDF: 8036.0/112

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -11.895 $\pm$ 0.036 χ^2 /NDF: 305639.0/30

Left Out: 4.026 $\pm$ 0.016 χ^2 /NDF:1383143.9/24

Right Out: -8.814 $\pm$ 0.035 χ^2 /NDF: 397435.5/33

Left In: 5.335 $\pm$ 0.016 χ^2 /NDF:1077818.8/22

Left: 4.678 $\pm$ 0.012 χ^2 /NDF: 2464153.9/47

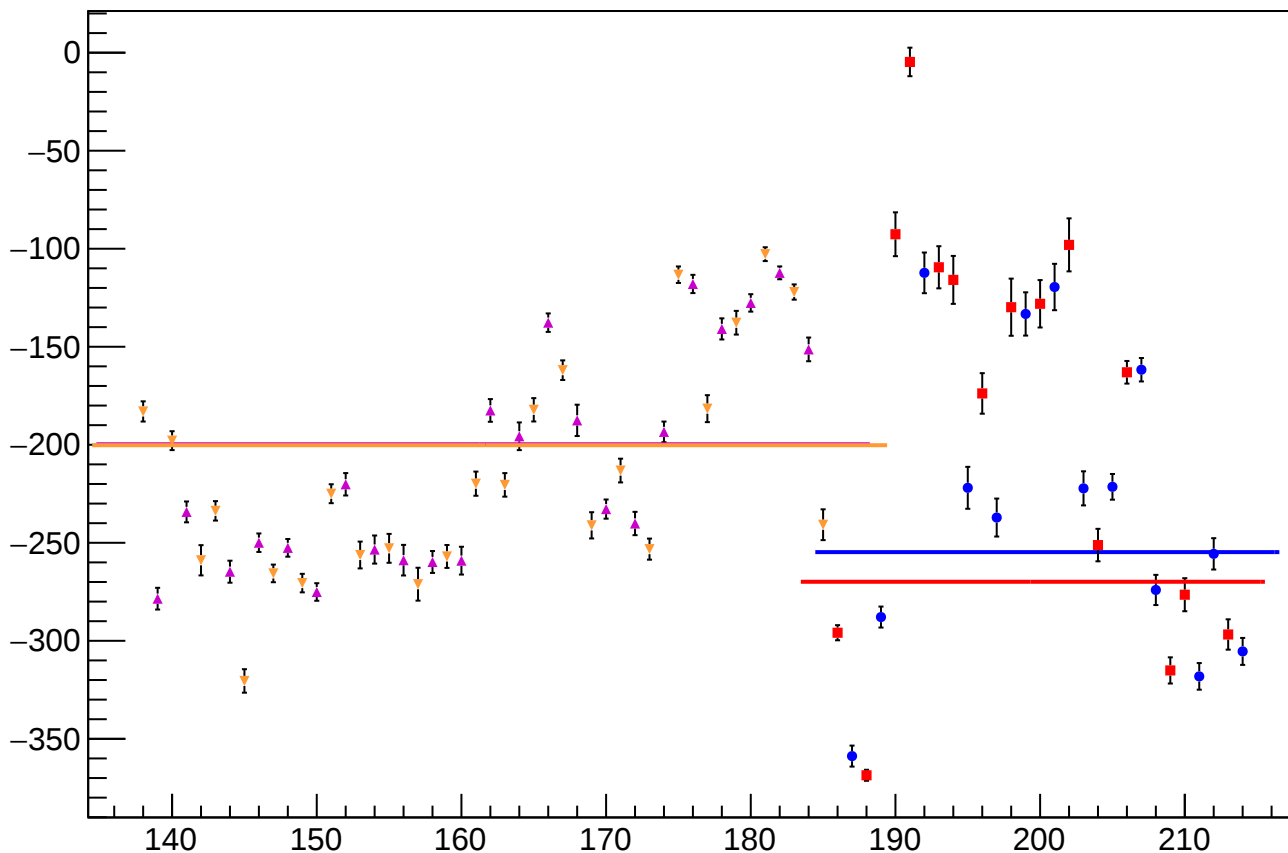
Right: -10.321 $\pm$ 0.025 χ^2 /NDF: 706772.5/64

In: 2.395 $\pm$ 0.015 χ^2 /NDF:1571296.0/53

Out: 1.769 $\pm$ 0.015 χ^2 /NDF:1888805.6/58

All: 2.079 $\pm$ 0.011 χ^2 /NDF: 3460982.8/112

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -254.756 ± 1.986 $\chi^2/\text{NDF}: 1298.6/13$

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 $\chi^2/\text{NDF}: 6193.2/47$

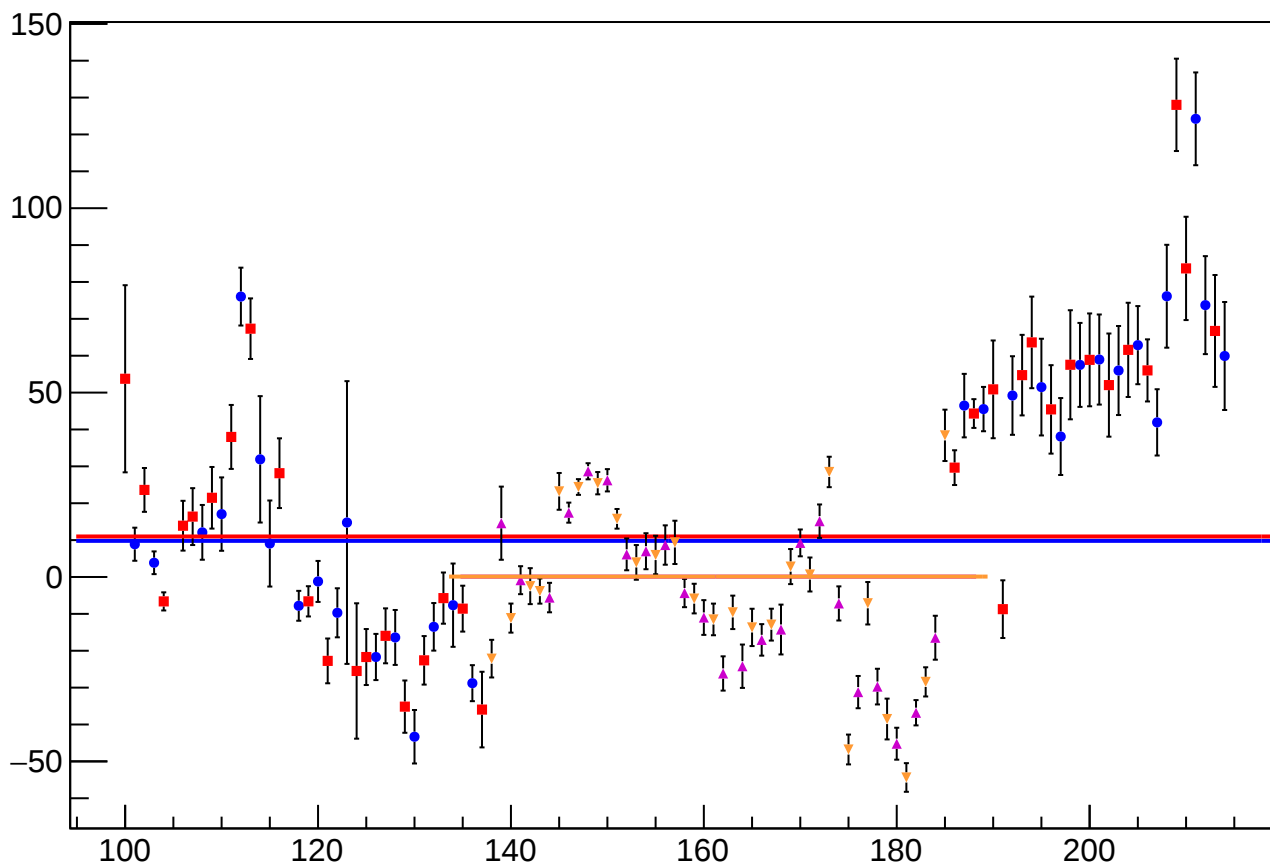
Right: -263.630 ± 1.276 $\chi^2/\text{NDF}: 5454.0/28$

In: -212.612 ± 0.960 $\chi^2/\text{NDF}: 4854.7/36$

Out: -220.773 ± 0.905 $\chi^2/\text{NDF}: 8578.2/39$

All: -216.935 ± 0.659 $\chi^2/\text{NDF}: 13471.1/76$

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.798 ± 1.299 $\chi^2/\text{NDF}: 589.1/30$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 10.985 ± 1.180 $\chi^2/\text{NDF}: 662.4/33$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

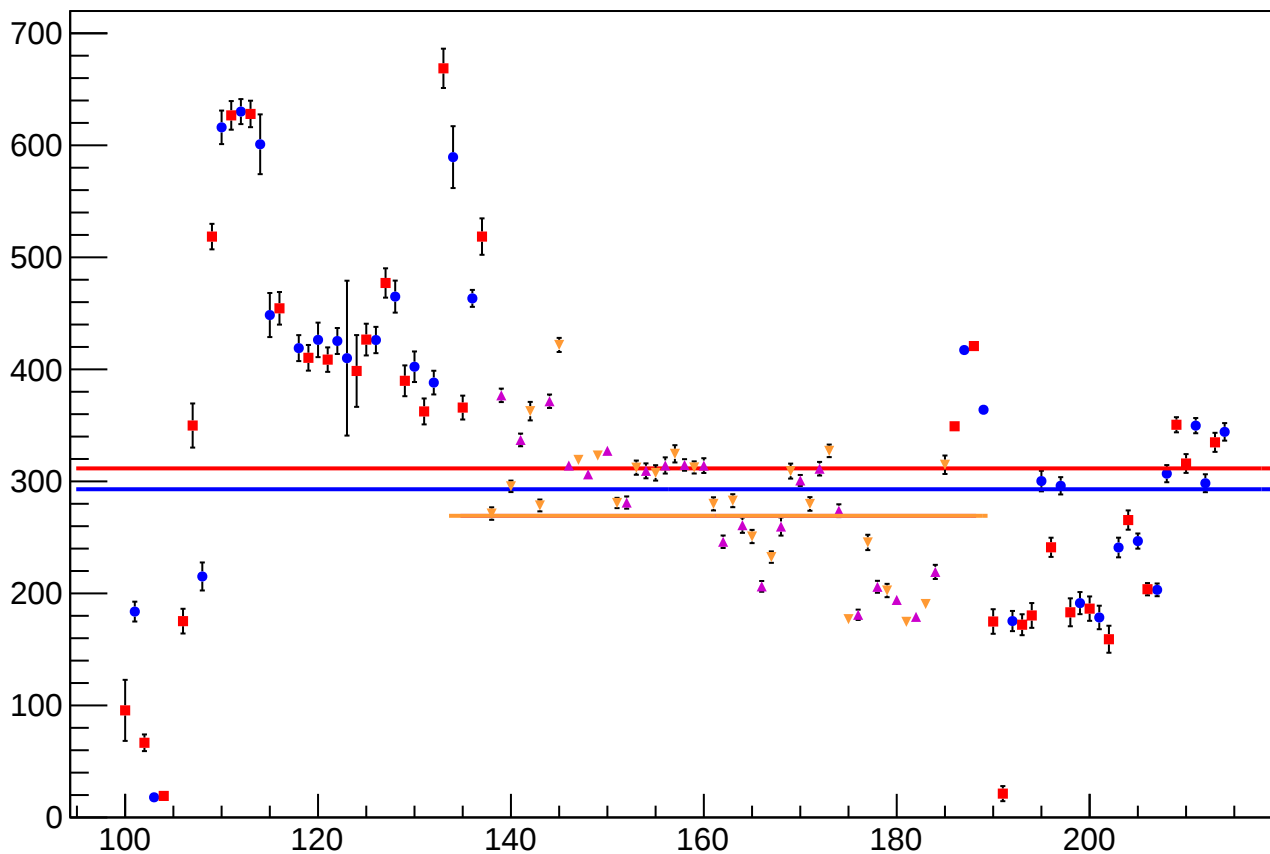
Right: 10.449 ± 0.873 $\chi^2/\text{NDF}: 1252.0/64$

In: 2.947 ± 0.704 $\chi^2/\text{NDF}: 1344.0/53$

Out: 3.577 ± 0.666 $\chi^2/\text{NDF}: 1551.6/58$

All: 3.279 ± 0.484 $\chi^2/\text{NDF}: 2895.9/112$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 292.980 $\pm$ 1.475 χ^2 /NDF: 9636.8/30

Left Out: 269.278 $\pm$ 1.078 χ^2 /NDF:3146.7/24

Right Out: 311.593 $\pm$ 1.241 χ^2 /NDF: 14403.6/33

Left In: 269.191 $\pm$ 1.091 χ^2 /NDF:3170.2/22

Left: 269.235 $\pm$ 0.767 χ^2 /NDF: 6316.9/47

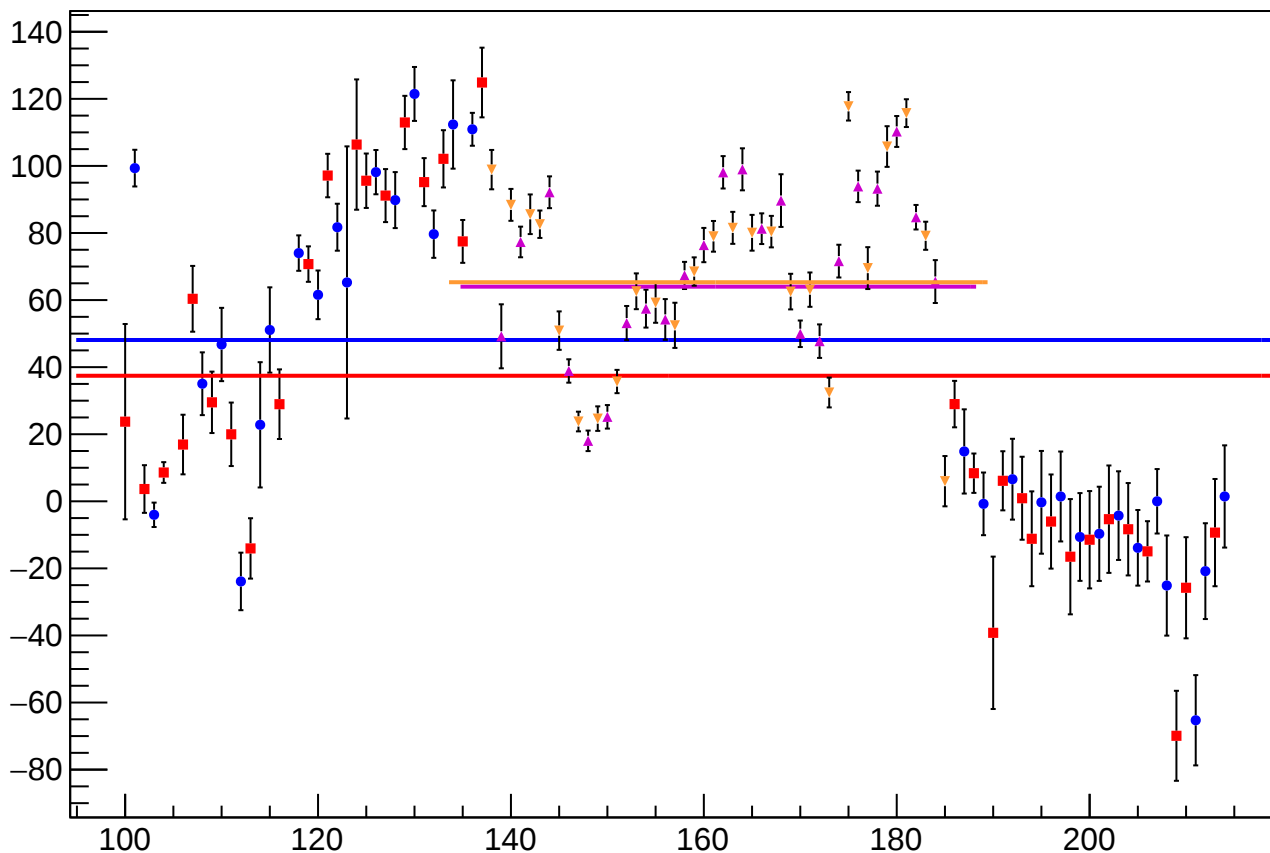
Right: 303.875 $\pm$ 0.950 χ^2 /NDF: 24133.7/64

In: 277.602 $\pm$ 0.877 χ^2 /NDF:12975.2/53

Out: 287.467 $\pm$ 0.814 χ^2 /NDF:18213.1/58

All: 282.902 $\pm$ 0.596 χ^2 /NDF: 31256.3/112

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 48.097 ± 1.514 $\chi^2/\text{NDF}: 1095.7/30$

Left Out: 65.323 ± 0.935 $\chi^2/\text{NDF}: 1007.1/24$

Right Out: 37.435 ± 1.422 $\chi^2/\text{NDF}: 959.7/33$

Left In: 63.999 ± 0.963 $\chi^2/\text{NDF}: 799.5/22$

Left: 64.681 ± 0.671 $\chi^2/\text{NDF}: 1807.5/47$

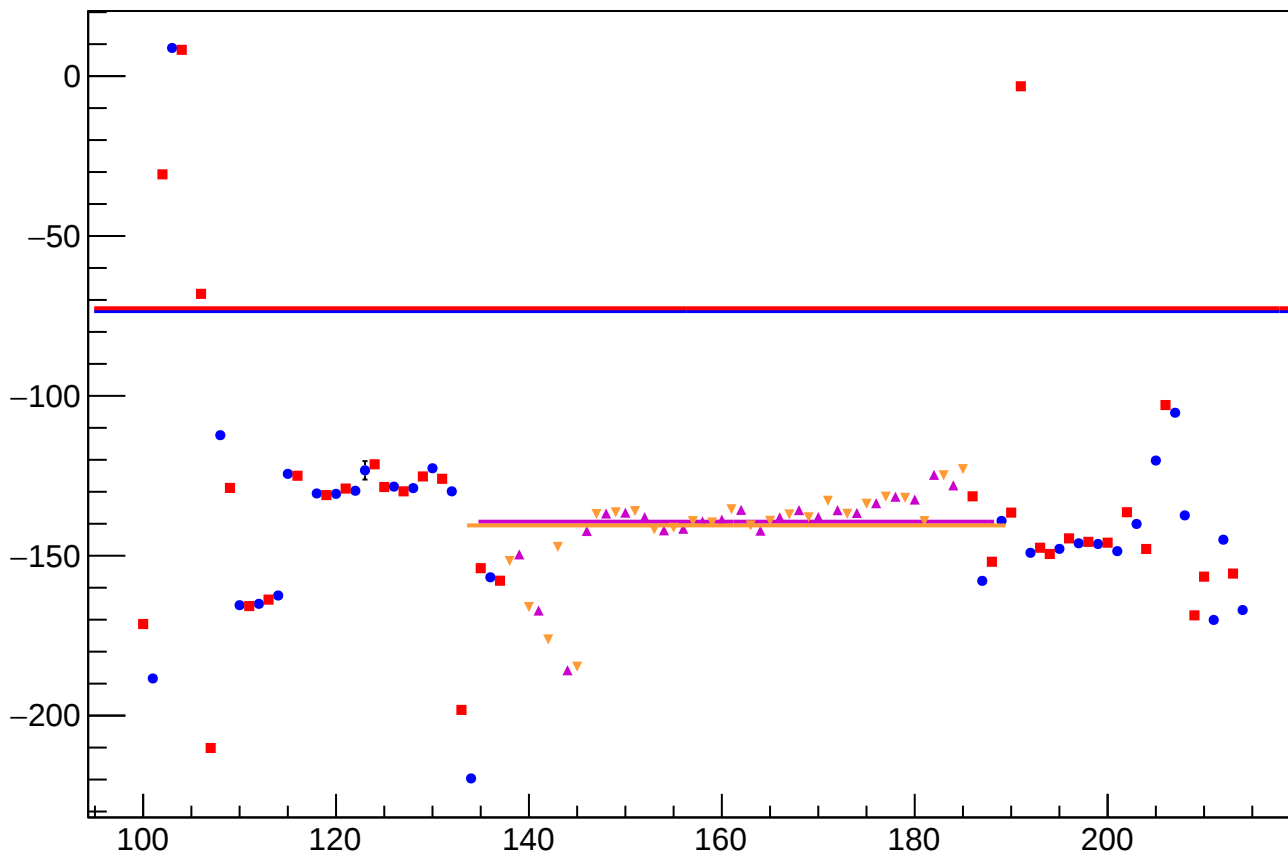
Right: 42.432 ± 1.036 $\chi^2/\text{NDF}: 2081.7/64$

In: 59.418 ± 0.812 $\chi^2/\text{NDF}: 1973.7/53$

Out: 56.906 ± 0.781 $\chi^2/\text{NDF}: 2235.5/58$

All: 58.113 ± 0.563 $\chi^2/\text{NDF}: 4214.2/112$

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -73.488 ± 0.062 $\chi^2/\text{NDF}: 1598148.8/30$

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 $\chi^2/\text{NDF}: 140272.6/47$

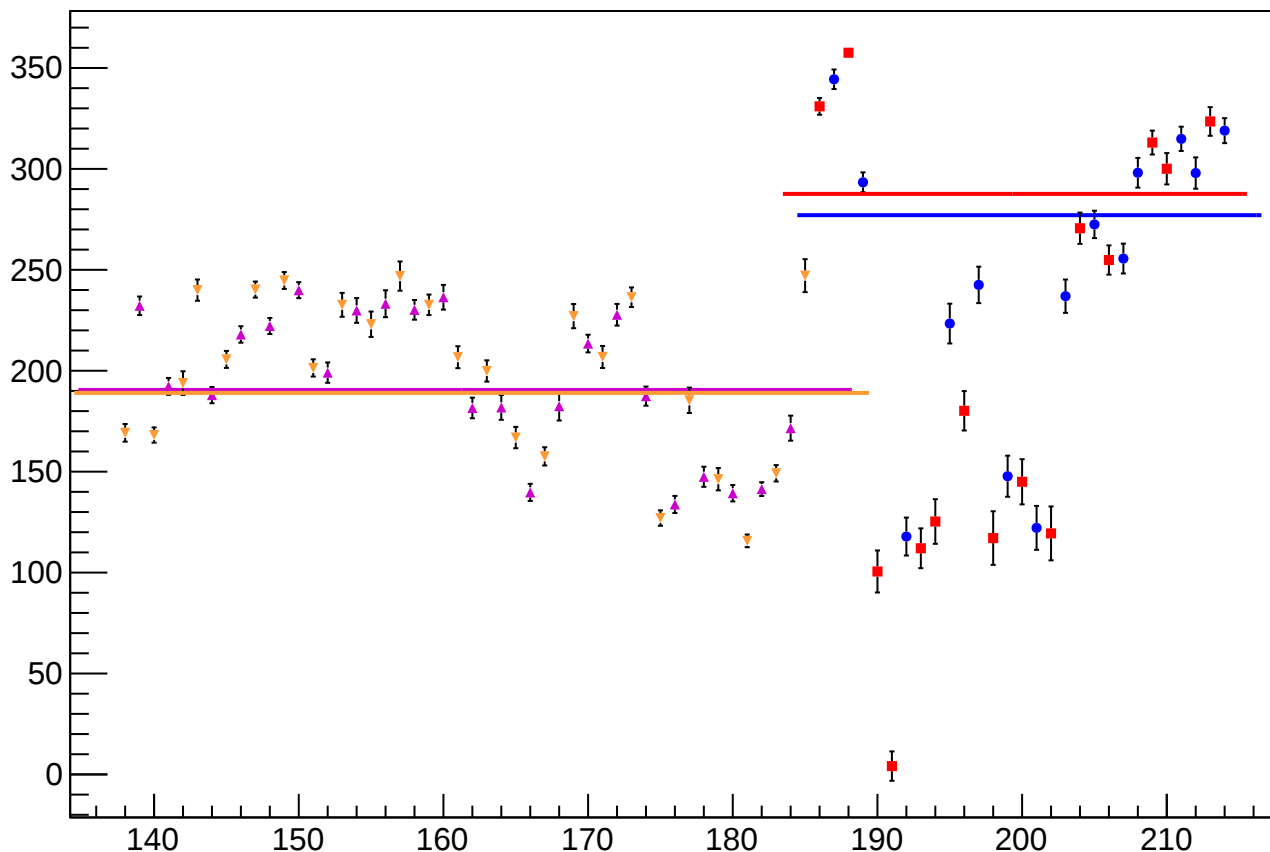
Right: -73.038 ± 0.043 $\chi^2/\text{NDF}: 3034058.1/64$

In: -116.490 ± 0.036 $\chi^2/\text{NDF}: 2404221.1/53$

Out: -116.478 ± 0.036 $\chi^2/\text{NDF}: 2335768.5/58$

All: -116.484 ± 0.026 $\chi^2/\text{NDF}: 4739989.7/111$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 277.074 ± 1.891 χ^2/NDF : 1033.3/13

Left Out: 189.030 ± 0.956 χ^2/NDF : 1980.9/24

Right Out: 287.623 ± 1.593 χ^2/NDF : 3940.1/14

Left In: 190.506 ± 0.975 χ^2/NDF : 1412.7/22

Left: 189.753 ± 0.683 χ^2/NDF : 3394.8/47

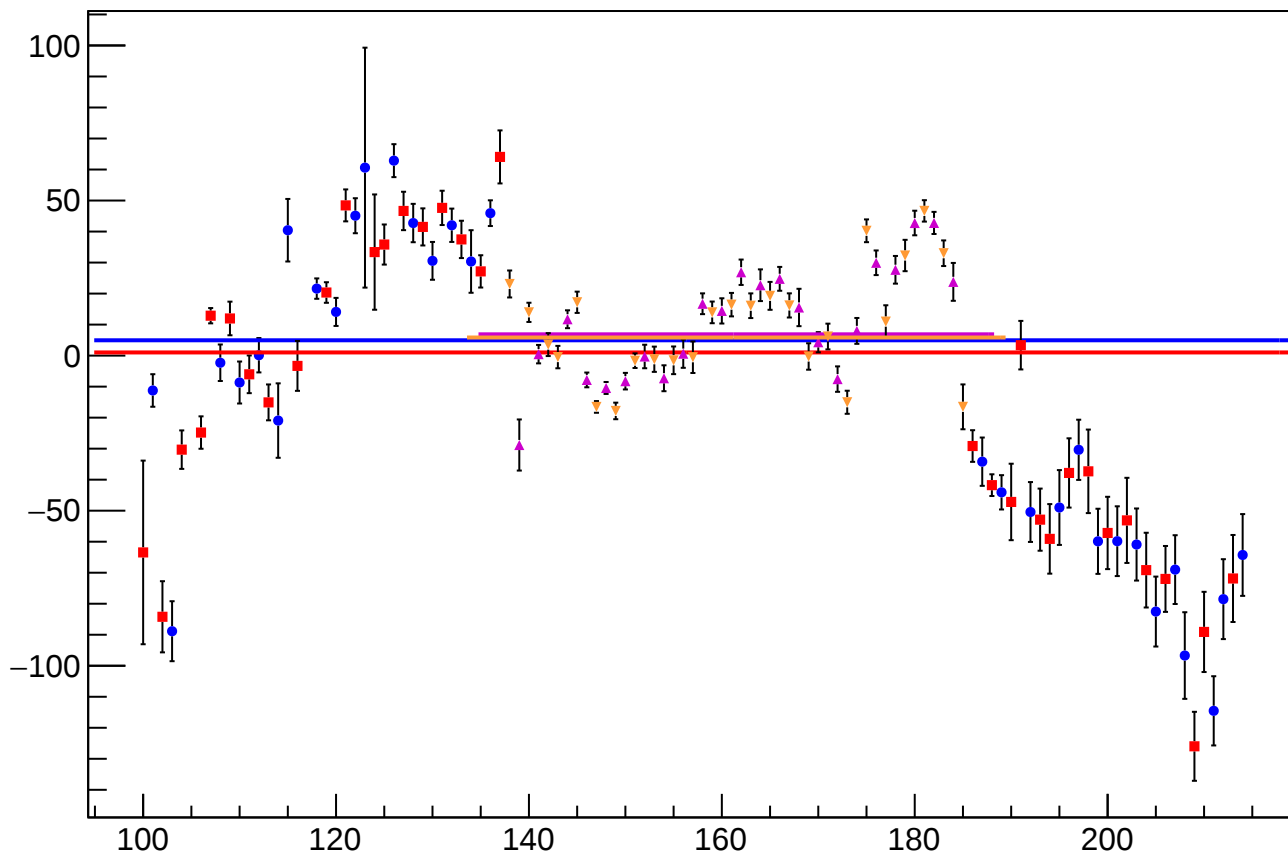
Right: 283.245 ± 1.218 χ^2/NDF : 4991.7/28

In: 208.687 ± 0.867 χ^2/NDF : 4101.4/36

Out: 215.133 ± 0.820 χ^2/NDF : 8737.6/39

All: 212.089 ± 0.596 χ^2/NDF : 12868.3/76

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.942 ± 1.236 $\chi^2/\text{NDF}: 1150.1/30$

Left Out: 5.834 ± 0.712 $\chi^2/\text{NDF}: 652.2/24$

Right Out: 1.021 ± 1.063 $\chi^2/\text{NDF}: 1189.9/33$

Left In: 6.862 ± 0.736 $\chi^2/\text{NDF}: 522.7/22$

Left: 6.331 ± 0.512 $\chi^2/\text{NDF}: 1176.0/47$

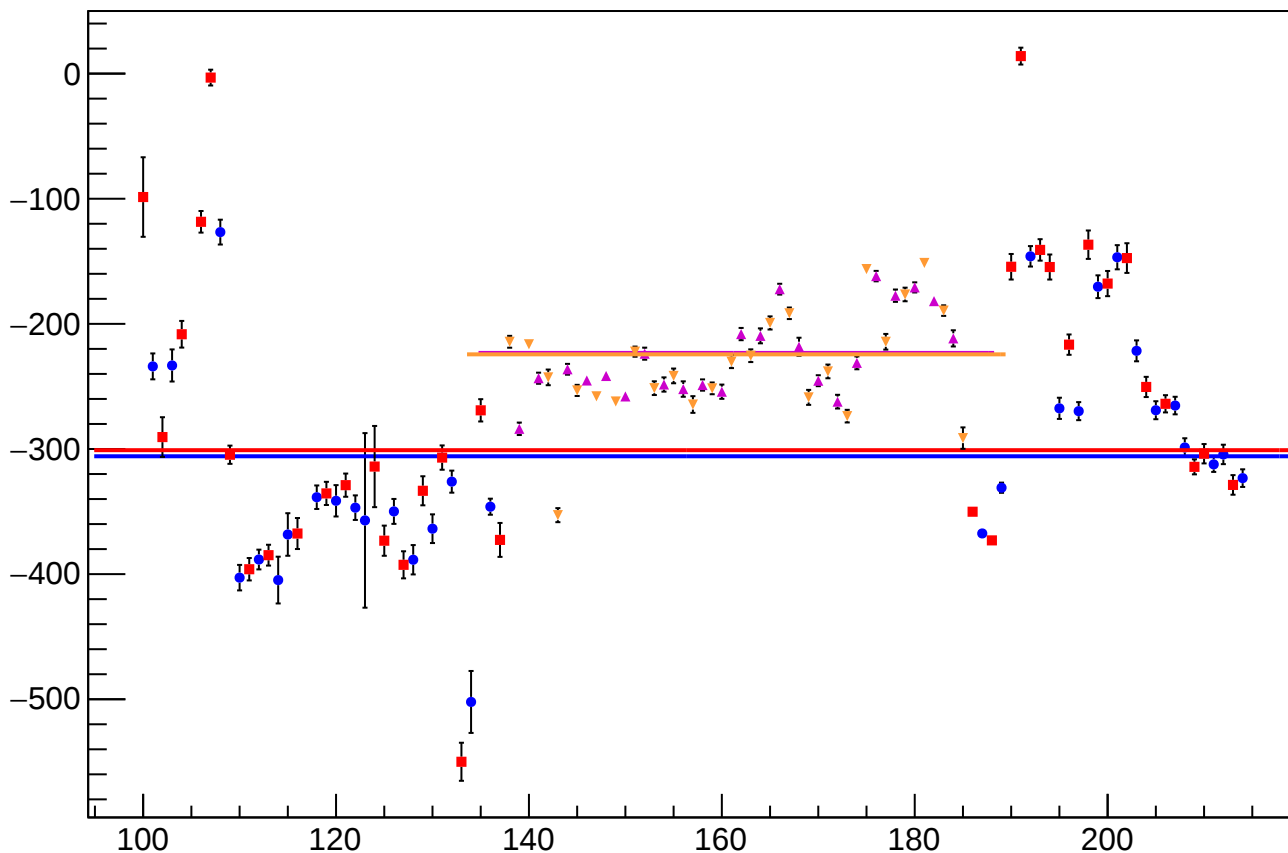
Right: 2.688 ± 0.806 $\chi^2/\text{NDF}: 2345.8/64$

In: 6.359 ± 0.633 $\chi^2/\text{NDF}: 1674.6/53$

Out: 4.343 ± 0.592 $\chi^2/\text{NDF}: 1856.3/58$

All: 5.284 ± 0.432 $\chi^2/\text{NDF}: 3536.3/112$

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -305.816 ± 1.442 χ^2/NDF : 2256.9/30

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

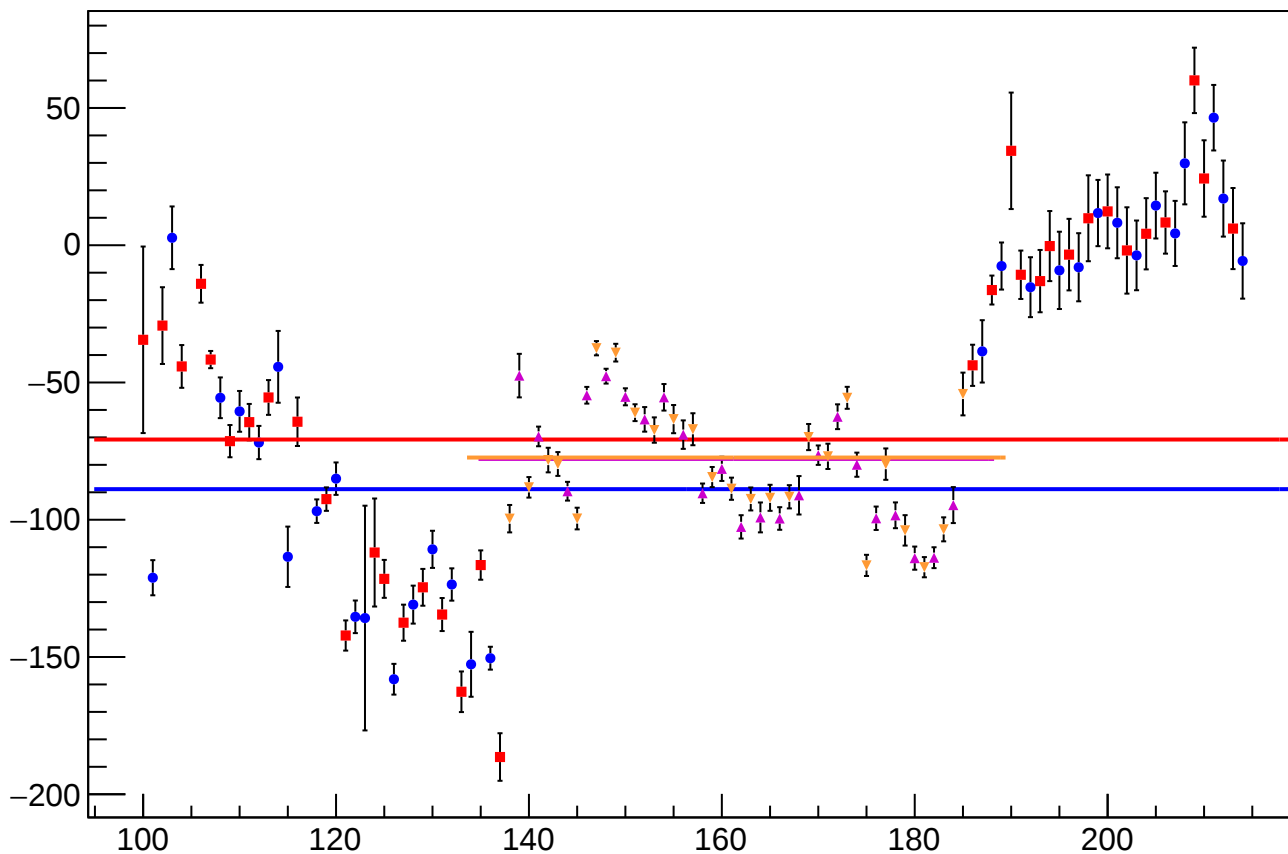
Right: -302.905 ± 0.915 χ^2/NDF : 10941.3/64

In: -248.916 ± 0.804 χ^2/NDF : 5785.4/53

Out: -254.631 ± 0.743 χ^2/NDF : 13316.9/58

All: -251.998 ± 0.546 χ^2/NDF : 19129.6/112

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -88.858 ± 1.434 $\chi^2/\text{NDF}: 1521.3/30$

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 $\chi^2/\text{NDF}: 1469.2/47$

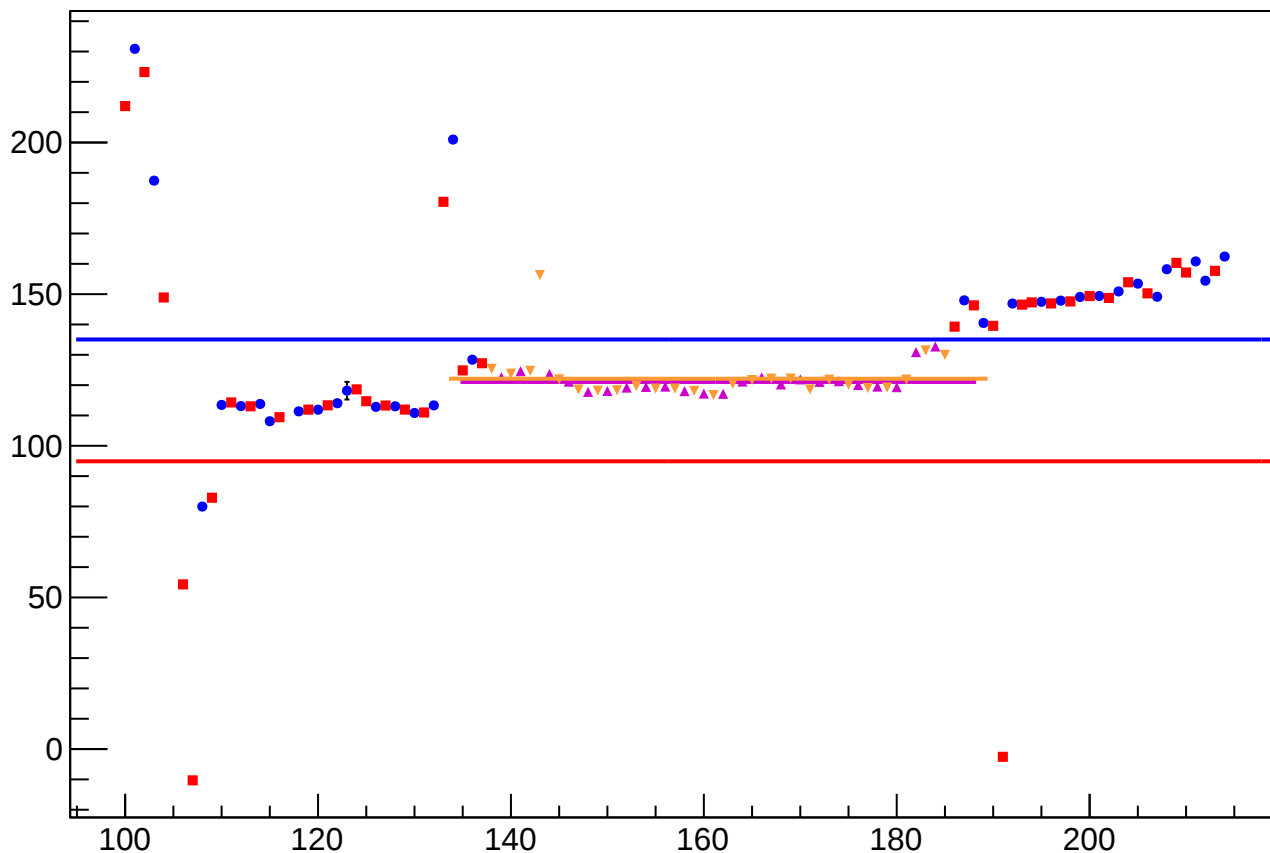
Right: -78.739 ± 0.951 $\chi^2/\text{NDF}: 3365.6/64$

In: -80.699 ± 0.730 $\chi^2/\text{NDF}: 2187.8/53$

Out: -75.393 ± 0.693 $\chi^2/\text{NDF}: 2620.3/58$

All: -77.907 ± 0.503 $\chi^2/\text{NDF}: 4835.9/112$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 135.053+/-0.073 χ^2/NDF : 210744.9/30

Left Out: 122.119+/-0.039 χ^2/NDF :30480.7/24

Right Out: 94.884+/-0.061 χ^2/NDF : 1161213.5/33

Left In: 121.055+/-0.040 χ^2/NDF :7931.6/22

Left: 121.591+/-0.028 χ^2/NDF : 38773.7/47

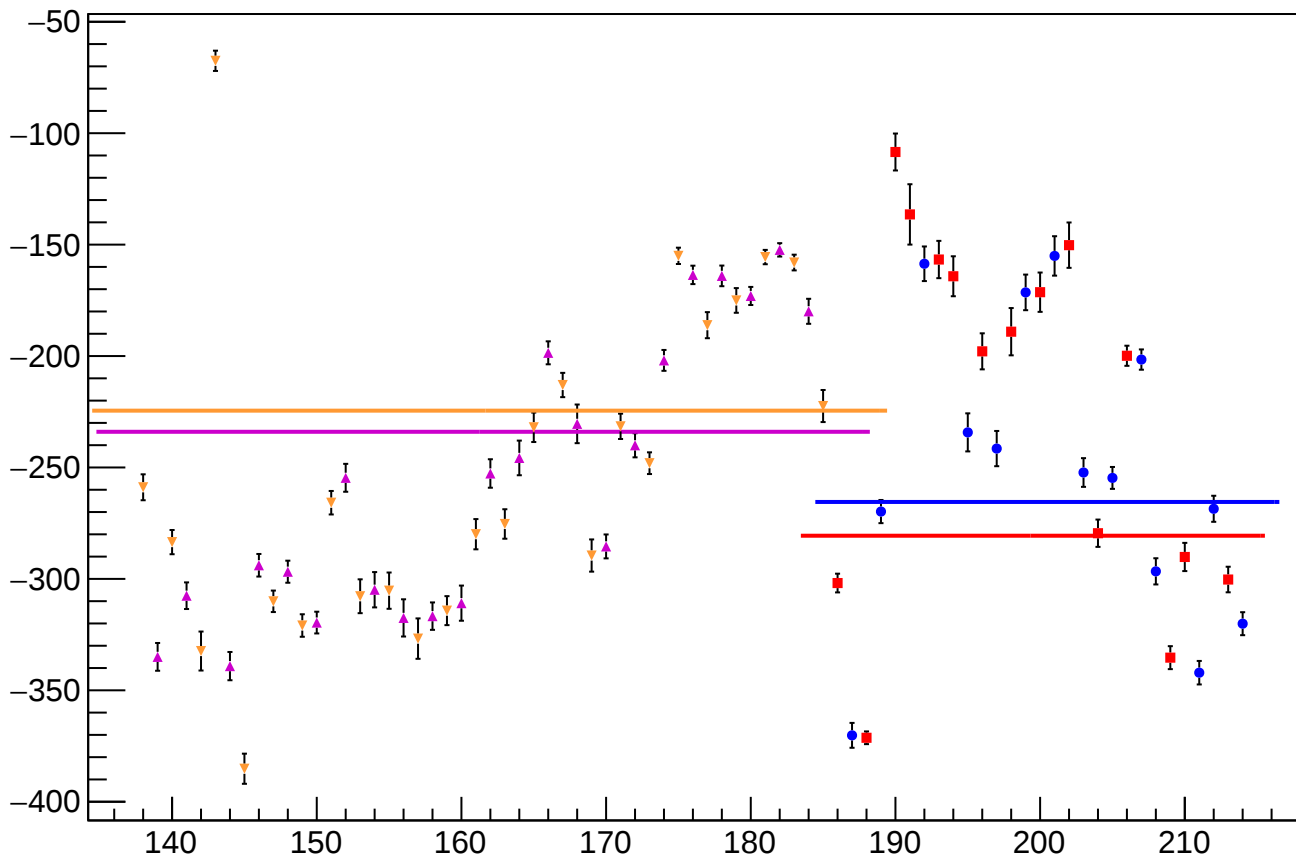
Right: 111.681+/-0.047 χ^2/NDF : 1550524.5/64

In: 124.288+/-0.035 χ^2/NDF :247337.8/53

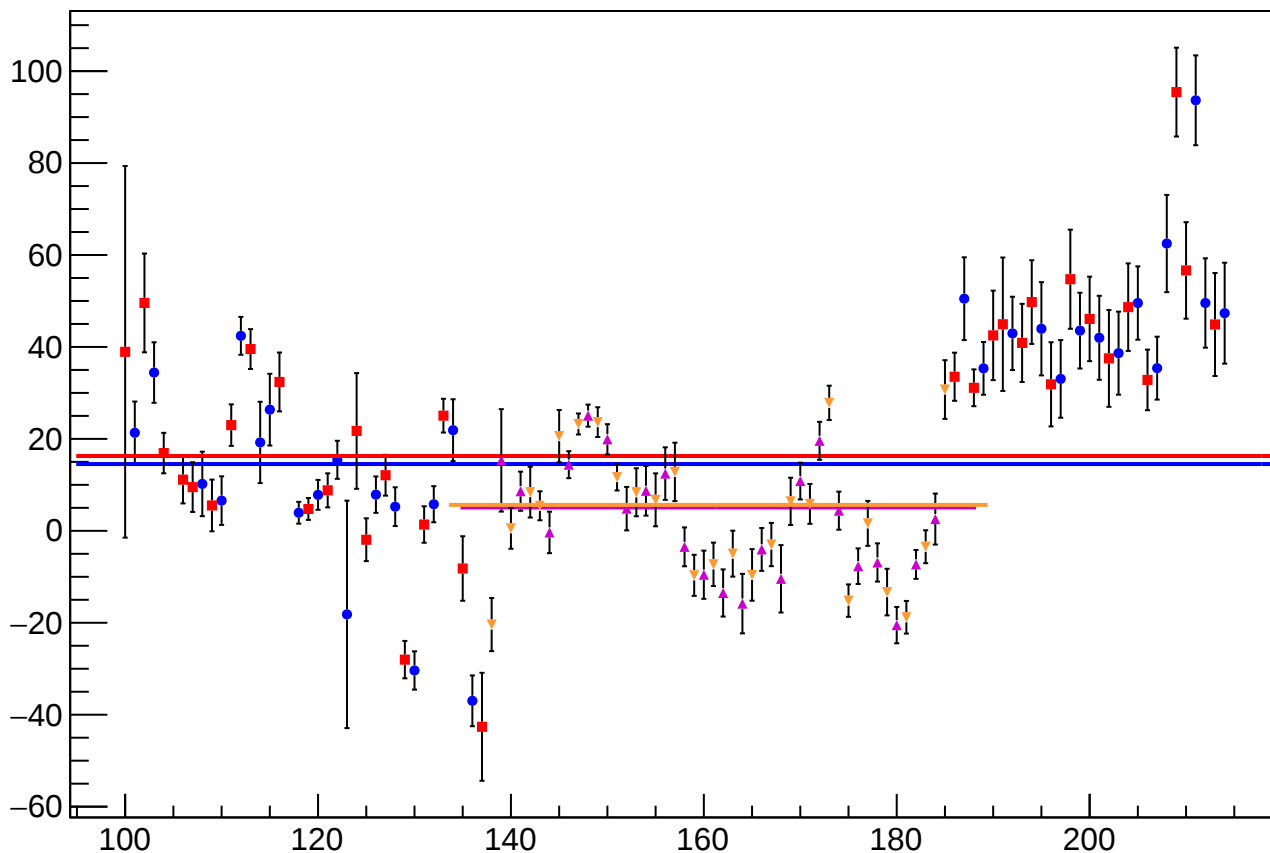
Out: 114.185+/-0.033 χ^2/NDF :1330807.5/58

All: 118.989+/-0.024 χ^2/NDF : 1622237.2/112

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.529 ± 0.992 $\chi^2/\text{NDF}: 524.5/30$

Left Out: 5.638 ± 0.828 $\chi^2/\text{NDF}: 313.6/24$

Right Out: 16.279 ± 0.948 $\chi^2/\text{NDF}: 467.2/33$

Left In: 5.077 ± 0.869 $\chi^2/\text{NDF}: 239.7/22$

Left: 5.371 ± 0.599 $\chi^2/\text{NDF}: 553.6/47$

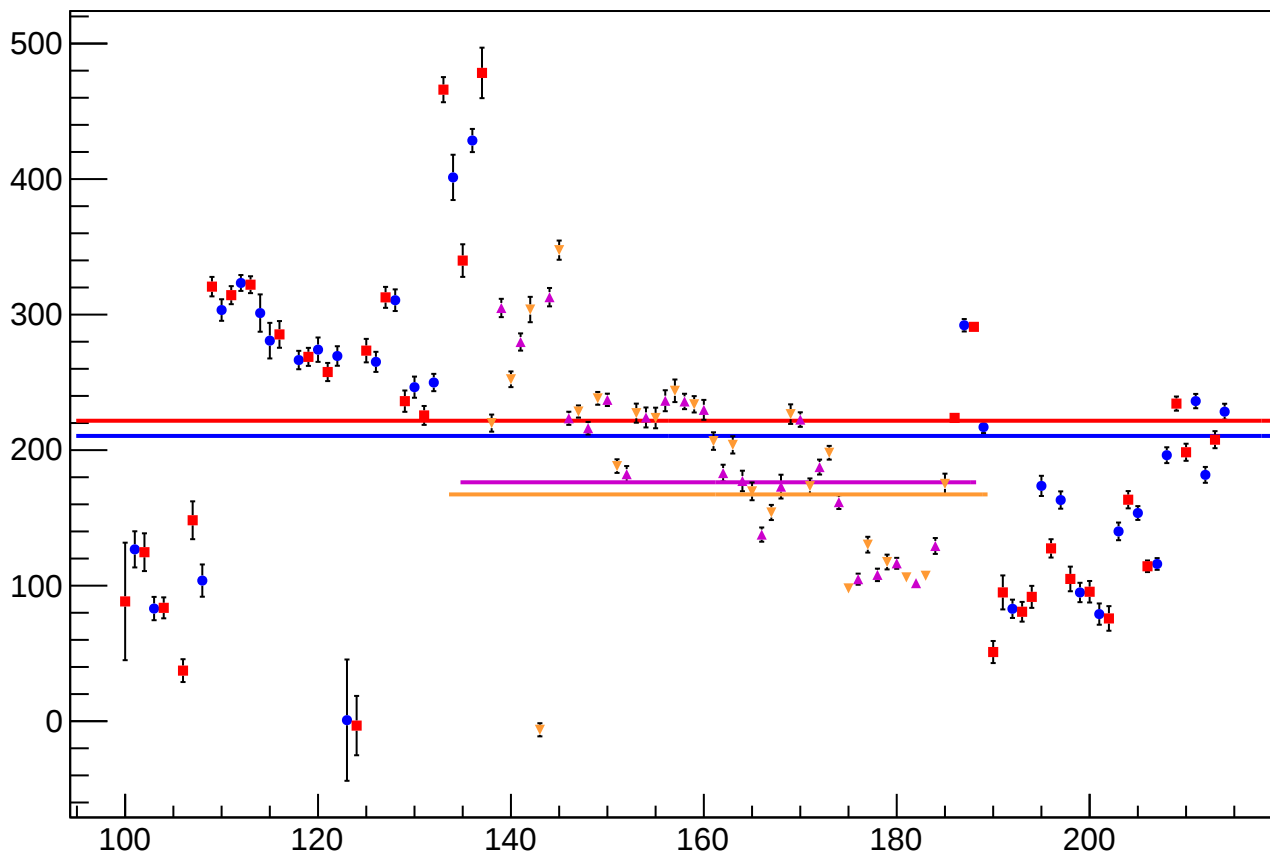
Right: 15.444 ± 0.686 $\chi^2/\text{NDF}: 993.3/64$

In: 9.179 ± 0.654 $\chi^2/\text{NDF}: 815.6/53$

Out: 10.241 ± 0.624 $\chi^2/\text{NDF}: 852.3/58$

All: 9.735 ± 0.451 $\chi^2/\text{NDF}: 1669.2/112$

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 210.479+/-1.226 χ^2/NDF : 4253.6/30

Left Out: 167.327+/-1.082 χ^2/NDF : 4454.5/24

Right Out: 221.688+/-1.107 χ^2/NDF : 6595.7/33

Left In: 176.272+/-1.106 χ^2/NDF : 3169.5/22

Left: 171.704+/-0.774 χ^2/NDF : 7657.4/47

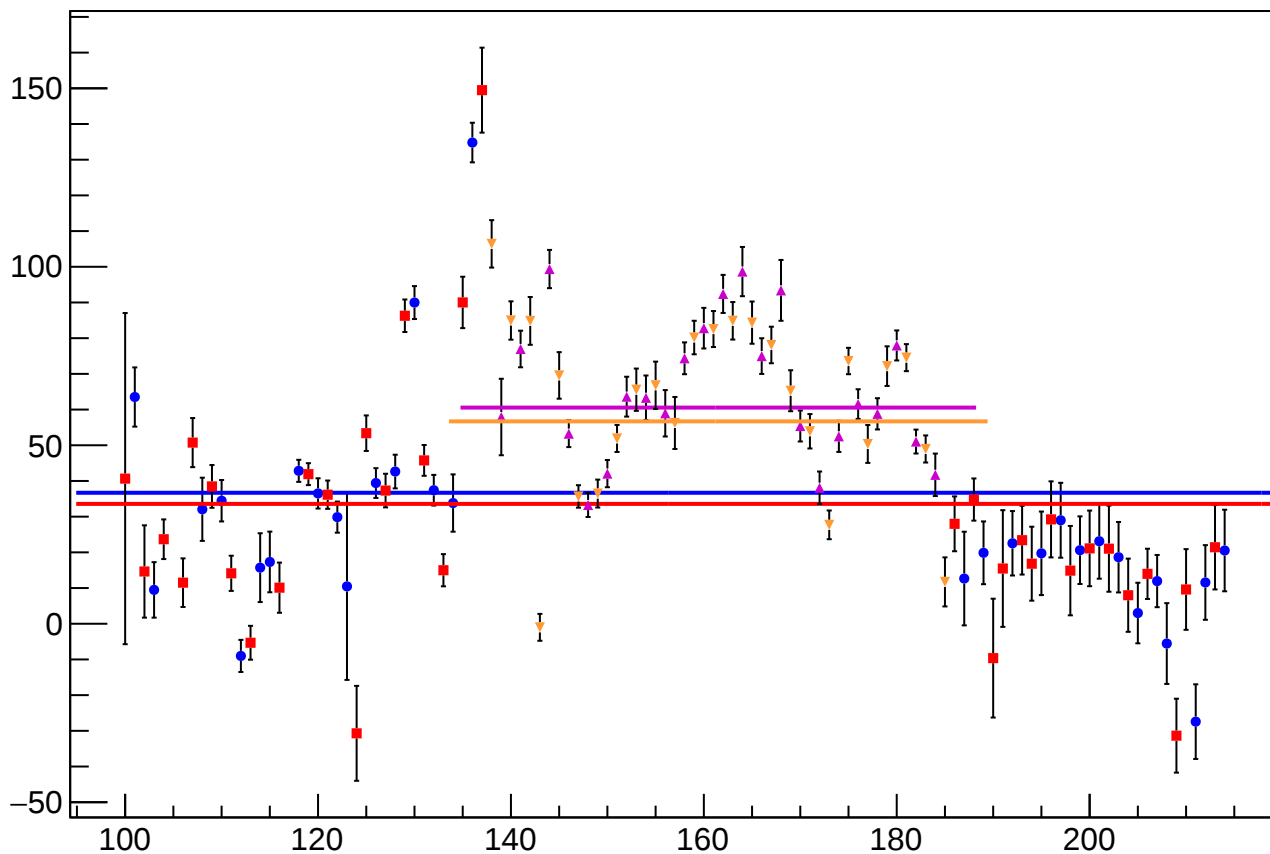
Right: 216.652+/-0.822 χ^2/NDF : 10895.3/64

In: 191.618+/-0.821 χ^2/NDF : 7852.5/53

Out: 193.896+/-0.774 χ^2/NDF : 12282.7/58

All: 192.824+/-0.563 χ^2/NDF : 20139.2/112

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.693 $\pm$ 1.149 χ^2/NDF : 698.6/30

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

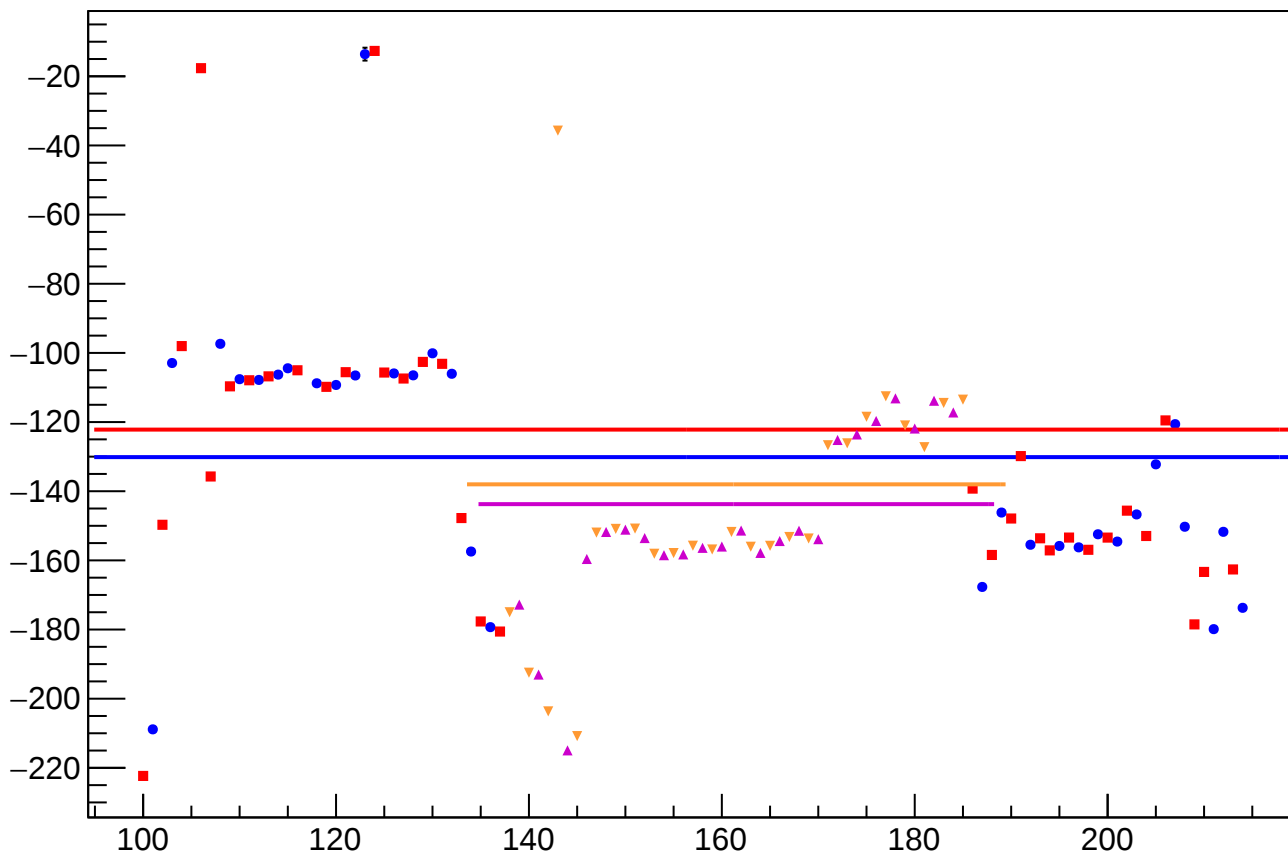
Right: 35.083 $\pm$ -0.798 χ^2/NDF : 1257.9/64

In: 50.383 $\pm$ -0.750 χ^2/NDF :1281.8/53

Out: 46.901 $\pm$ -0.723 χ^2/NDF :1495.8/58

All: 48.577 $\pm$ -0.520 χ^2/NDF : 2788.8/112

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -130.135+/-0.061 χ^2/NDF : 226306.7/30

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

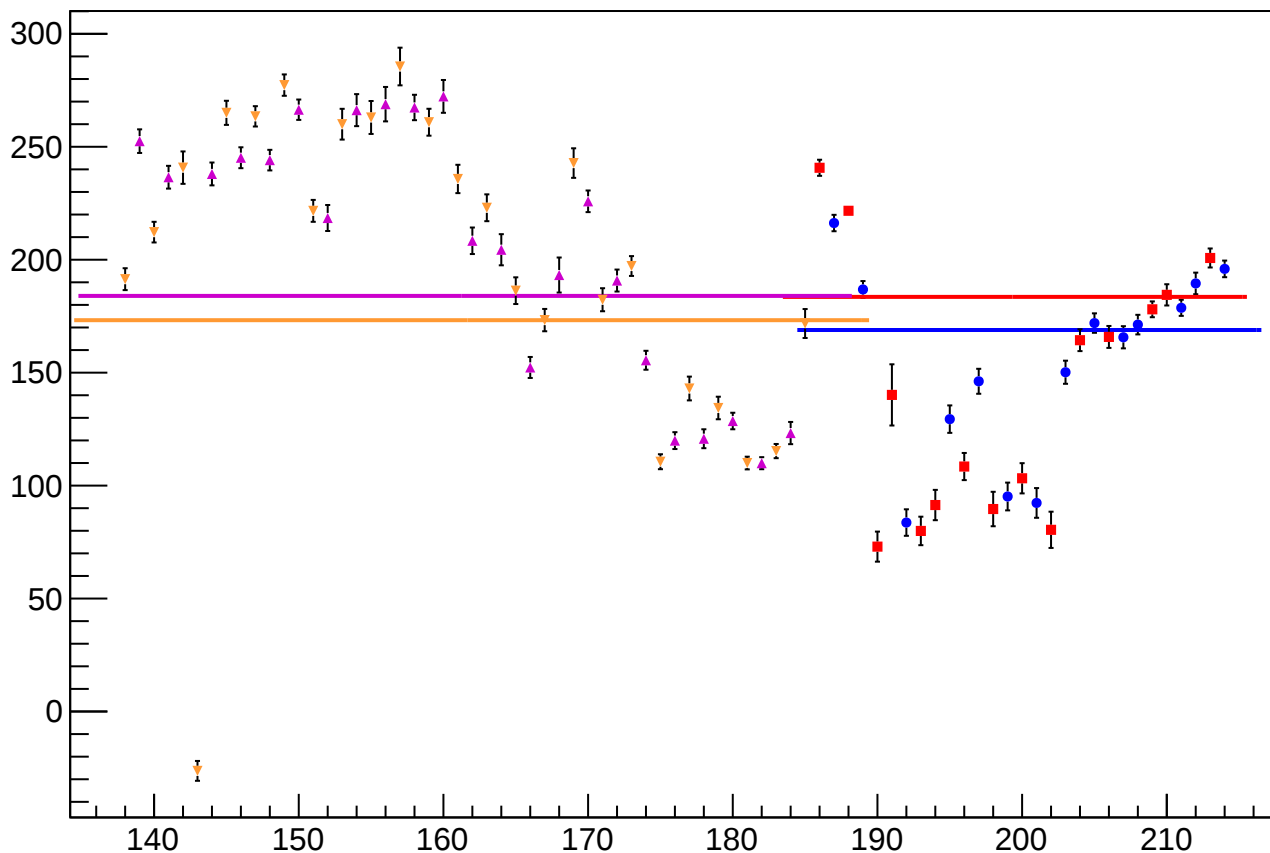
Right: -125.925+/-0.042 χ^2/NDF : 715774.2/64

In: -138.808+/-0.037 χ^2/NDF : 516247.4/53

Out: -132.000+/-0.036 χ^2/NDF : 1092983.6/58

All: -135.285+/-0.026 χ^2/NDF : 1626929.0/111

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 168.887 $\pm$ 1.222 χ^2 /NDF: 837.4/13

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

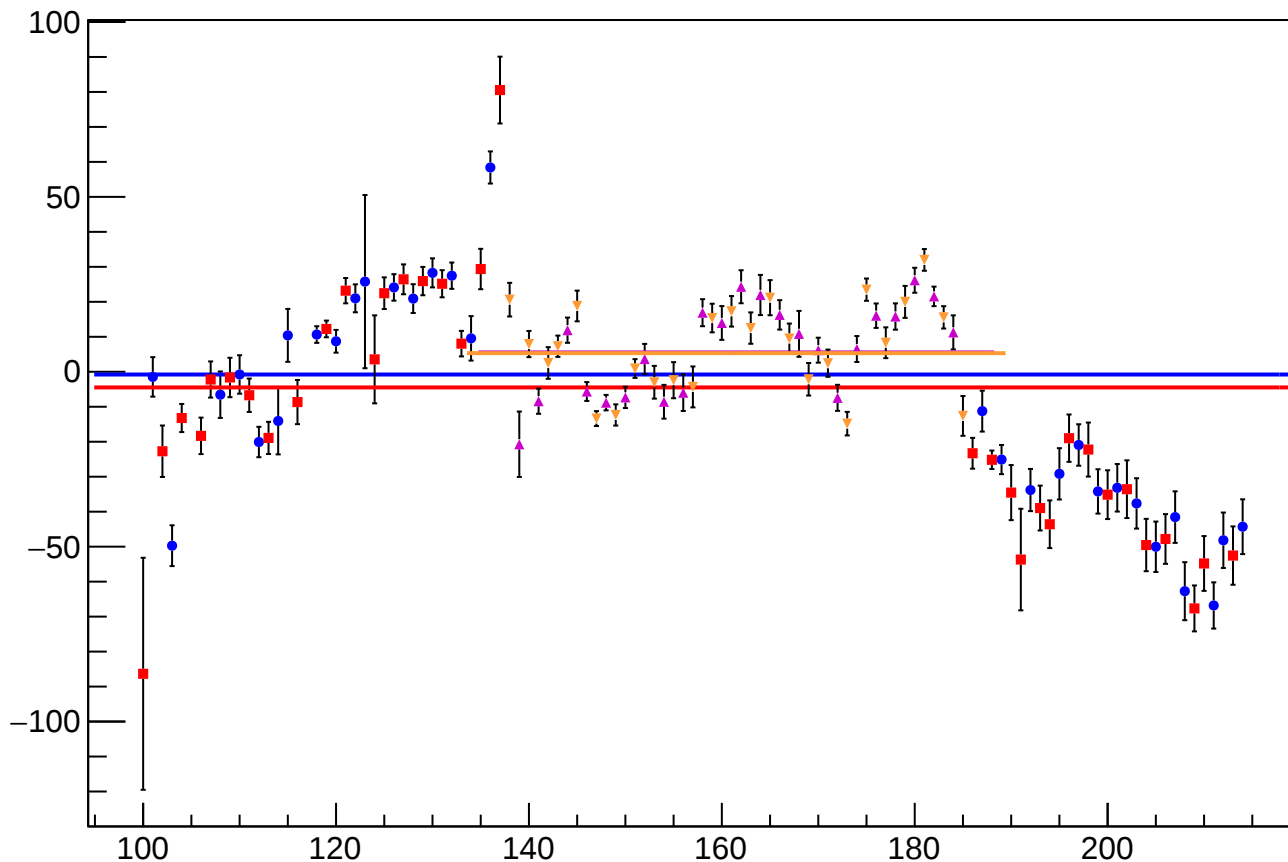
Right: 176.840 $\pm$ 0.827 χ^2 /NDF: 3001.9/28

In: 177.995 $\pm$ 0.770 χ^2 /NDF: 4543.2/36

Out: 177.618 $\pm$ 0.732 χ^2 /NDF: 7980.9/39

All: 177.797 $\pm$ 0.530 χ^2 /NDF: 12524.2/76

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.783 ± 0.914 χ^2/NDF : 972.8/30

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

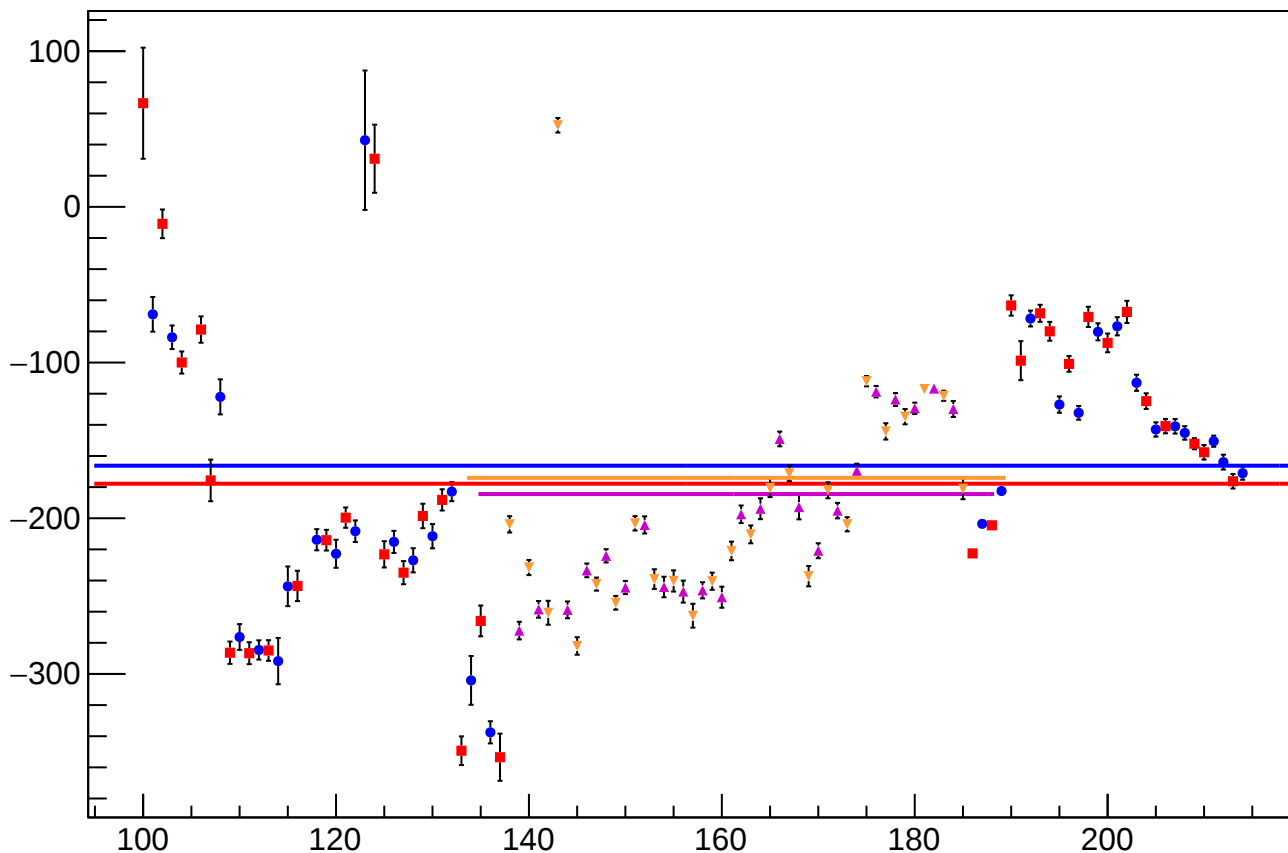
Right: -2.730 ± 0.628 χ^2/NDF : 1902.0/64

In: 2.862 ± 0.594 χ^2/NDF : 1256.7/53

Out: 1.135 ± 0.566 χ^2/NDF : 1339.5/58

All: 1.957 ± 0.409 χ^2/NDF : 2600.7/112

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -166.247 ± 0.995 χ^2/NDF : 3141.6/30

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

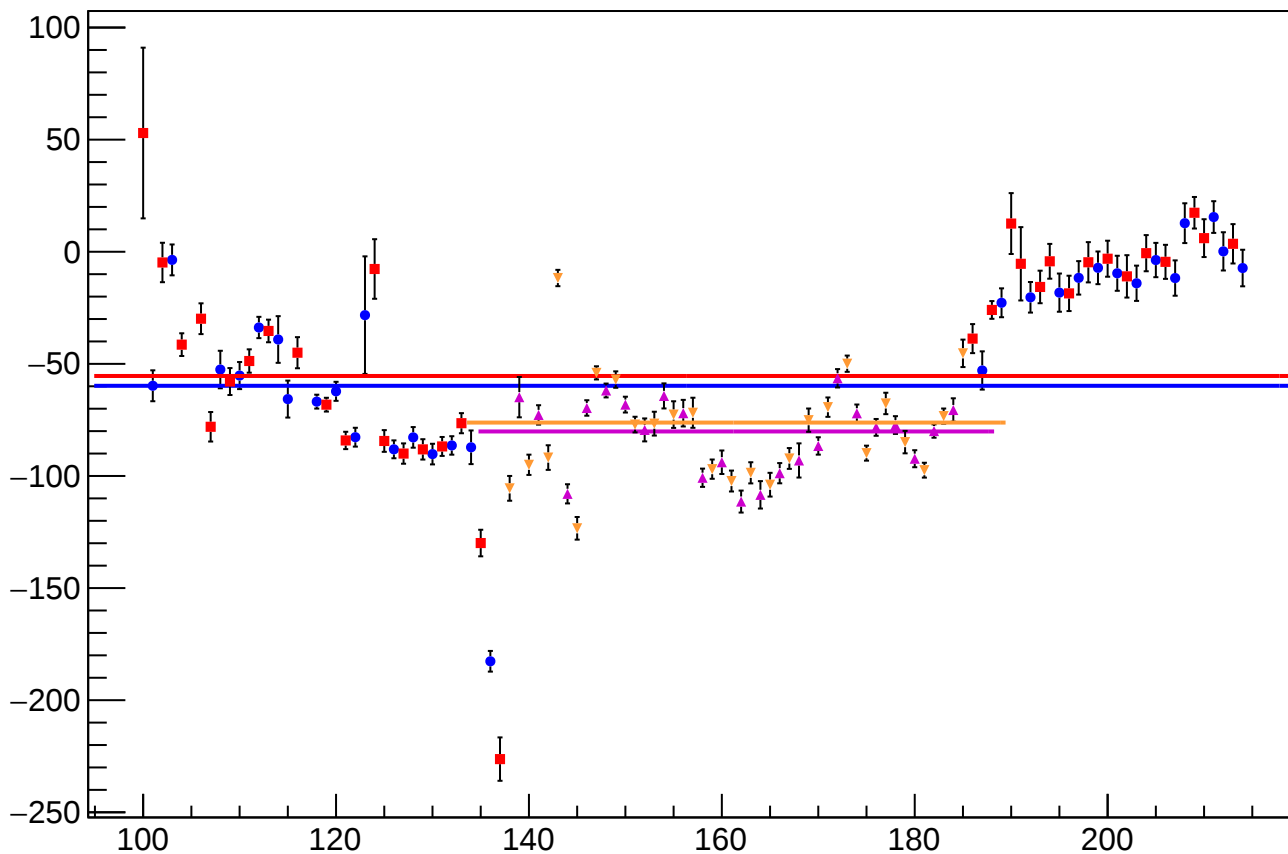
Right: -172.751 ± 0.658 χ^2/NDF : 8201.1/64

In: -175.394 ± 0.702 χ^2/NDF : 6361.4/53

Out: -176.126 ± 0.651 χ^2/NDF : 10435.0/58

All: -175.788 ± 0.477 χ^2/NDF : 16797.0/112

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -59.784 ± 1.061 $\chi^2/\text{NDF}: 1644.6/30$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -55.402 ± 1.025 $\chi^2/\text{NDF}: 1457.9/33$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

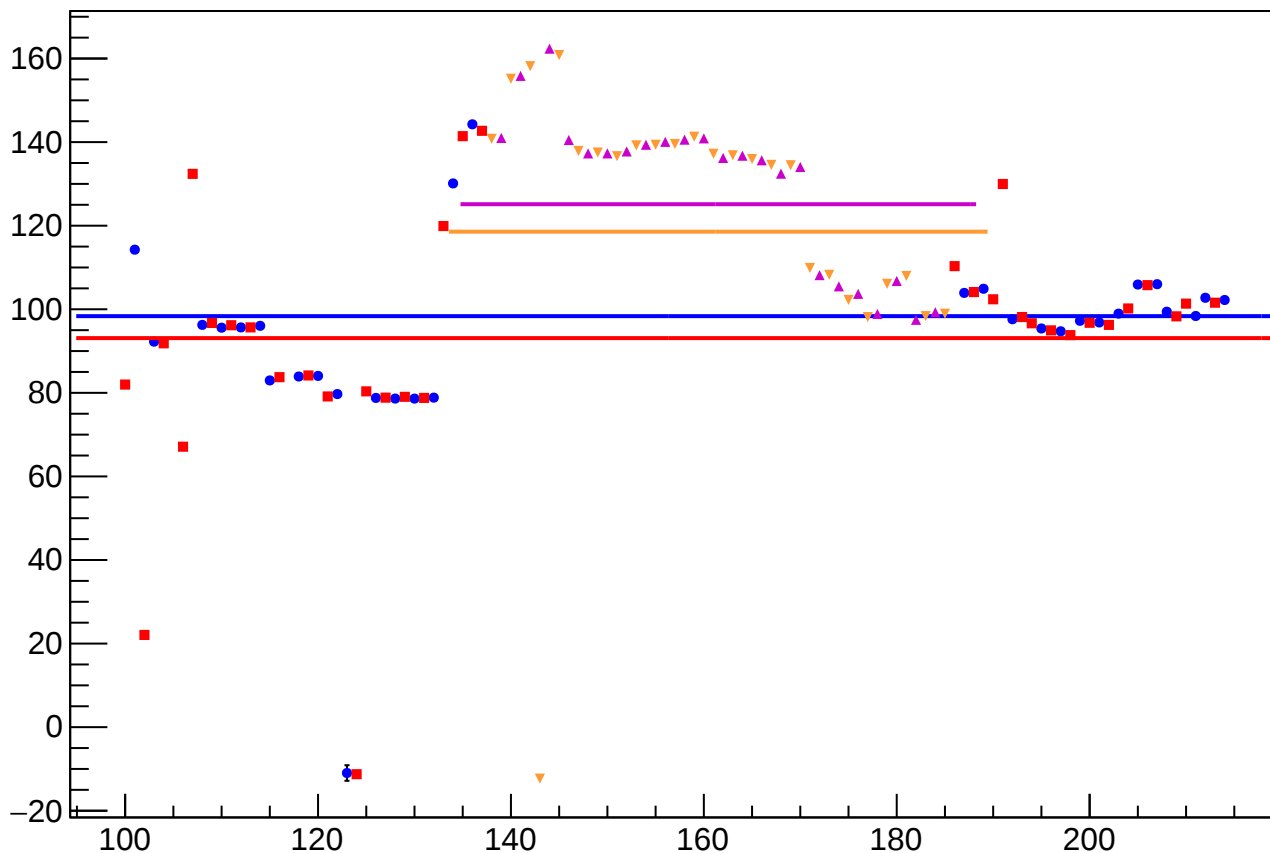
Right: -57.517 ± 0.737 $\chi^2/\text{NDF}: 3111.3/64$

In: -71.749 ± 0.681 $\chi^2/\text{NDF}: 2144.3/53$

Out: -67.626 ± 0.658 $\chi^2/\text{NDF}: 2500.8/58$

All: -69.614 ± 0.473 $\chi^2/\text{NDF}: 4664.1/112$

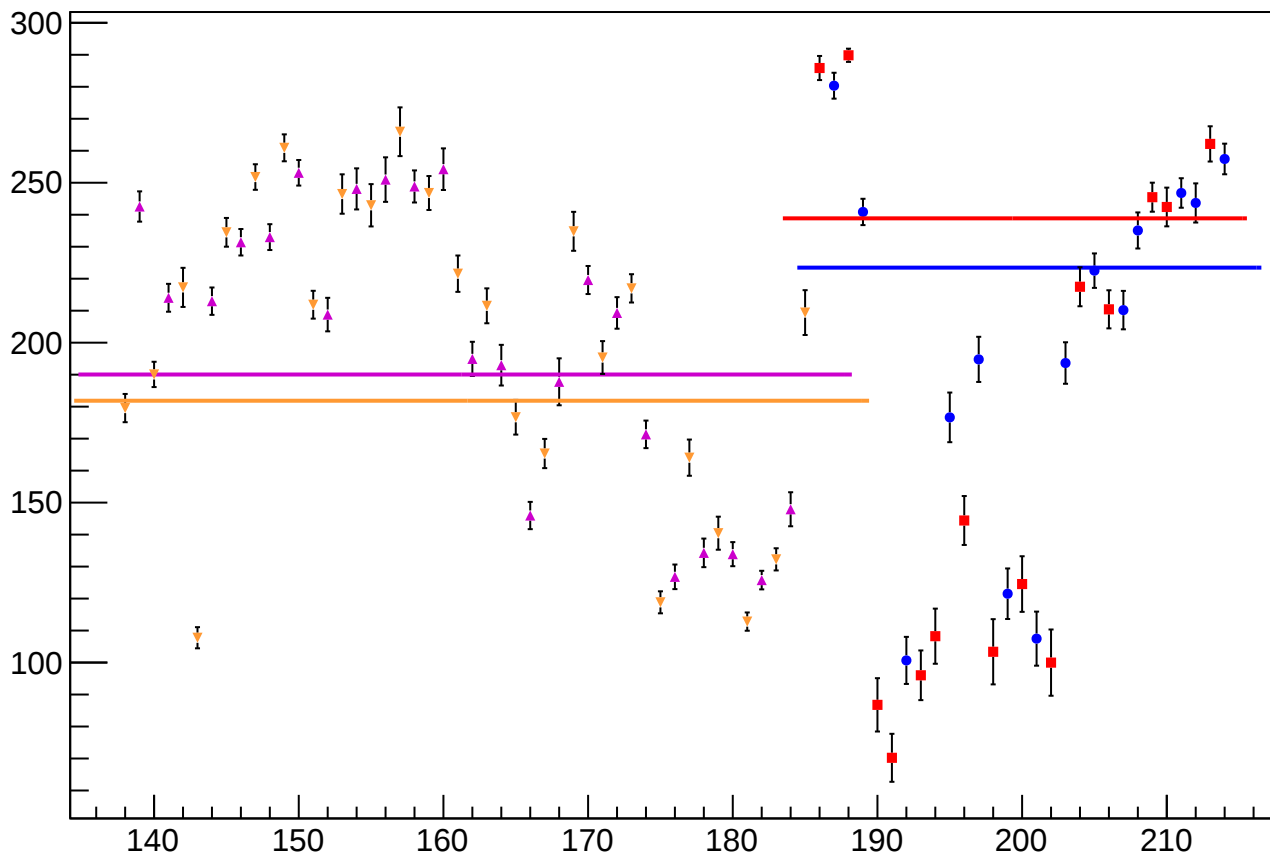
reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.354 $\pm$ 0.053 χ^2/NDF : 96302.4/30
 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: 95.571 $\pm$ 0.037 χ^2/NDF : 345750.1/64
 In: 115.090 $\pm$ 0.033 χ^2/NDF : 475165.5/53
 Out: 108.536 $\pm$ 0.032 χ^2/NDF : 1128842.2/58
 All: 111.700 $\pm$ 0.023 χ^2/NDF : 1624874.5/112

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 223.459 $\pm$ 1.508 χ^2 /NDF: 1018.6/13

Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF: 3303.4/24

Right Out: 238.867 $\pm$ 1.313 χ^2 /NDF: 2907.2/14

Left In: 190.048 $\pm$ 0.953 χ^2 /NDF: 2438.4/22

Left: 185.775 $\pm$ 0.659 χ^2 /NDF: 5780.3/47

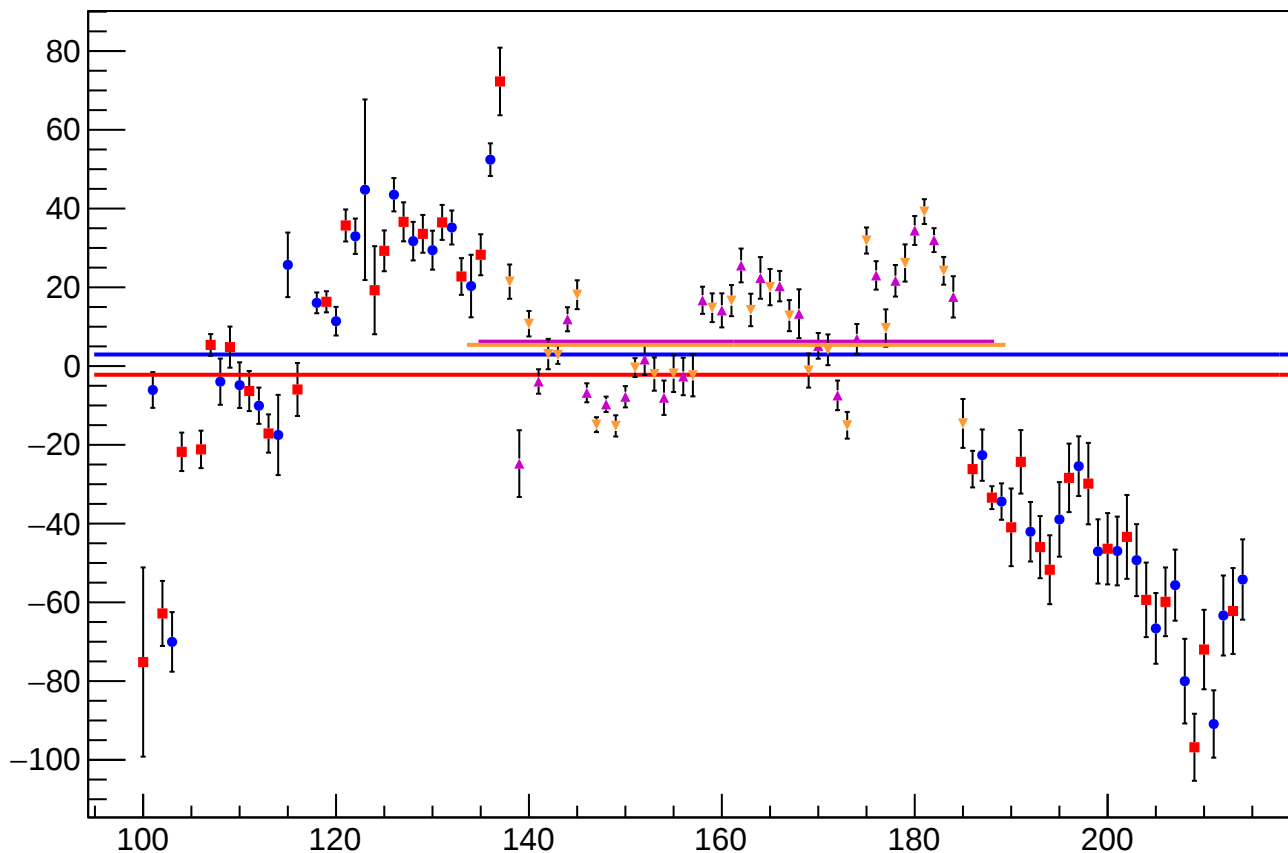
Right: 232.218 $\pm$ 0.990 χ^2 /NDF: 3985.2/28

In: 199.585 $\pm$ 0.805 χ^2 /NDF: 3808.0/36

Out: 200.435 $\pm$ 0.750 χ^2 /NDF: 7480.8/39

All: 200.040 $\pm$ 0.549 χ^2 /NDF: 11289.3/76

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.939 ± 1.023 $\chi^2/\text{NDF}: 1164.9/30$

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 $\chi^2/\text{NDF}: 934.7/47$

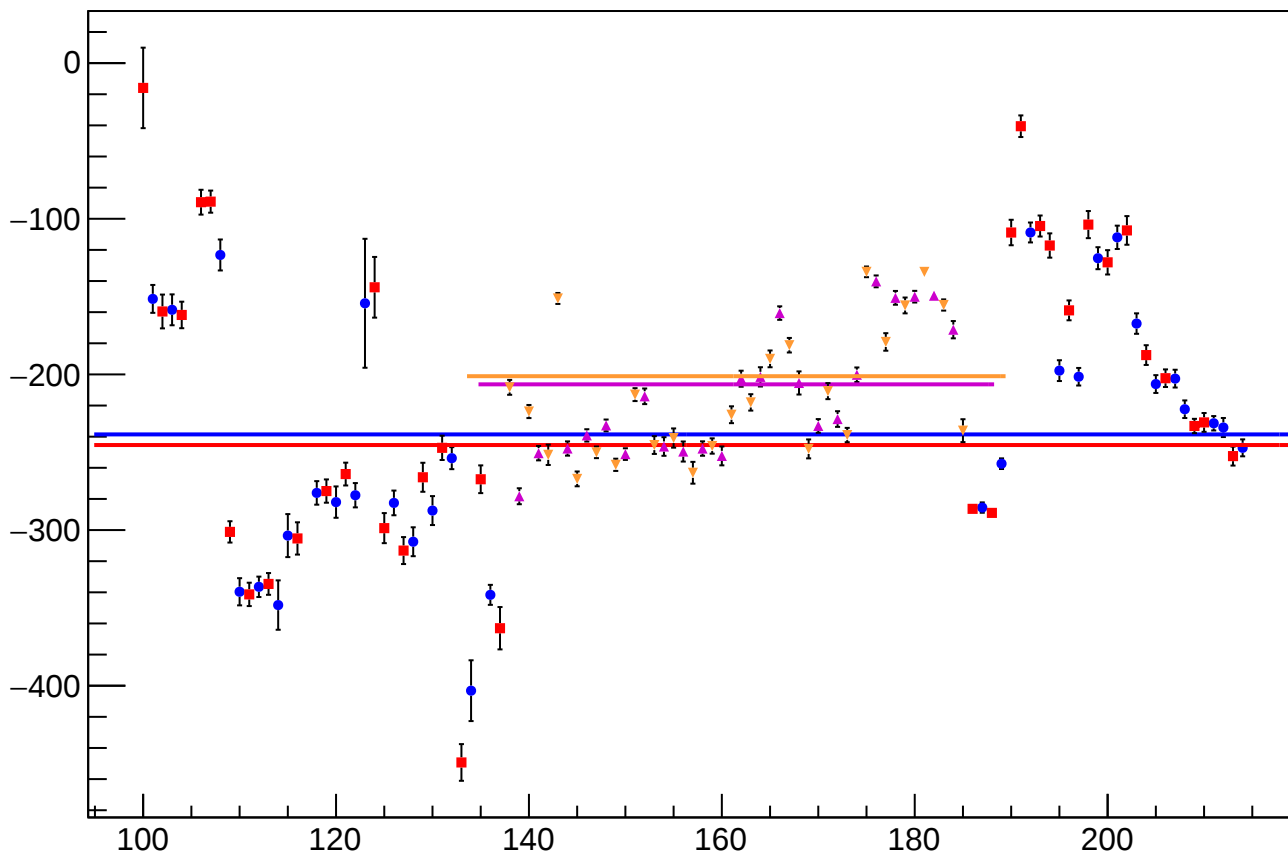
Right: 0.109 ± 0.686 $\chi^2/\text{NDF}: 2364.5/64$

In: 5.101 ± 0.595 $\chi^2/\text{NDF}: 1579.2/53$

Out: 2.687 ± 0.552 $\chi^2/\text{NDF}: 1755.6/58$

All: 3.803 ± 0.405 $\chi^2/\text{NDF}: 3343.7/112$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -238.543 ± 1.176 χ^2/NDF : 2706.1/30

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

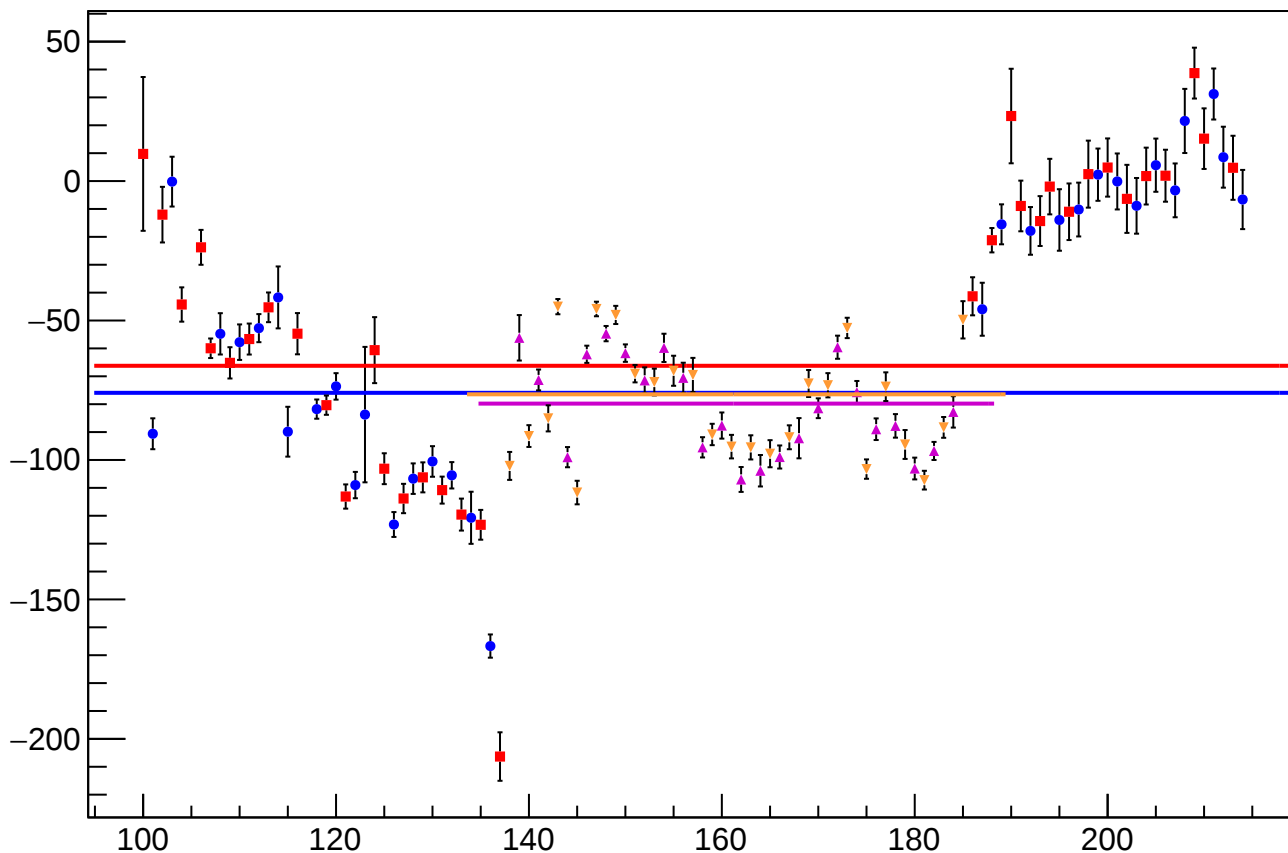
Right: -242.528 ± 0.758 χ^2/NDF : 8562.5/64

In: -219.078 ± 0.739 χ^2/NDF : 5270.7/53

Out: -221.531 ± 0.674 χ^2/NDF : 9395.7/58

All: -220.417 ± 0.498 χ^2/NDF : 14672.4/112

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.926+/-1.189 χ^2/NDF : 1700.1/30

Left Out: -76.460+/-0.797 χ^2/NDF : 781.3/24

Right Out: -66.230+/-1.101 χ^2/NDF : 1700.4/33

Left In: -79.792+/-0.840 χ^2/NDF : 412.3/22

Left: -78.038+/-0.578 χ^2/NDF : 1201.9/47

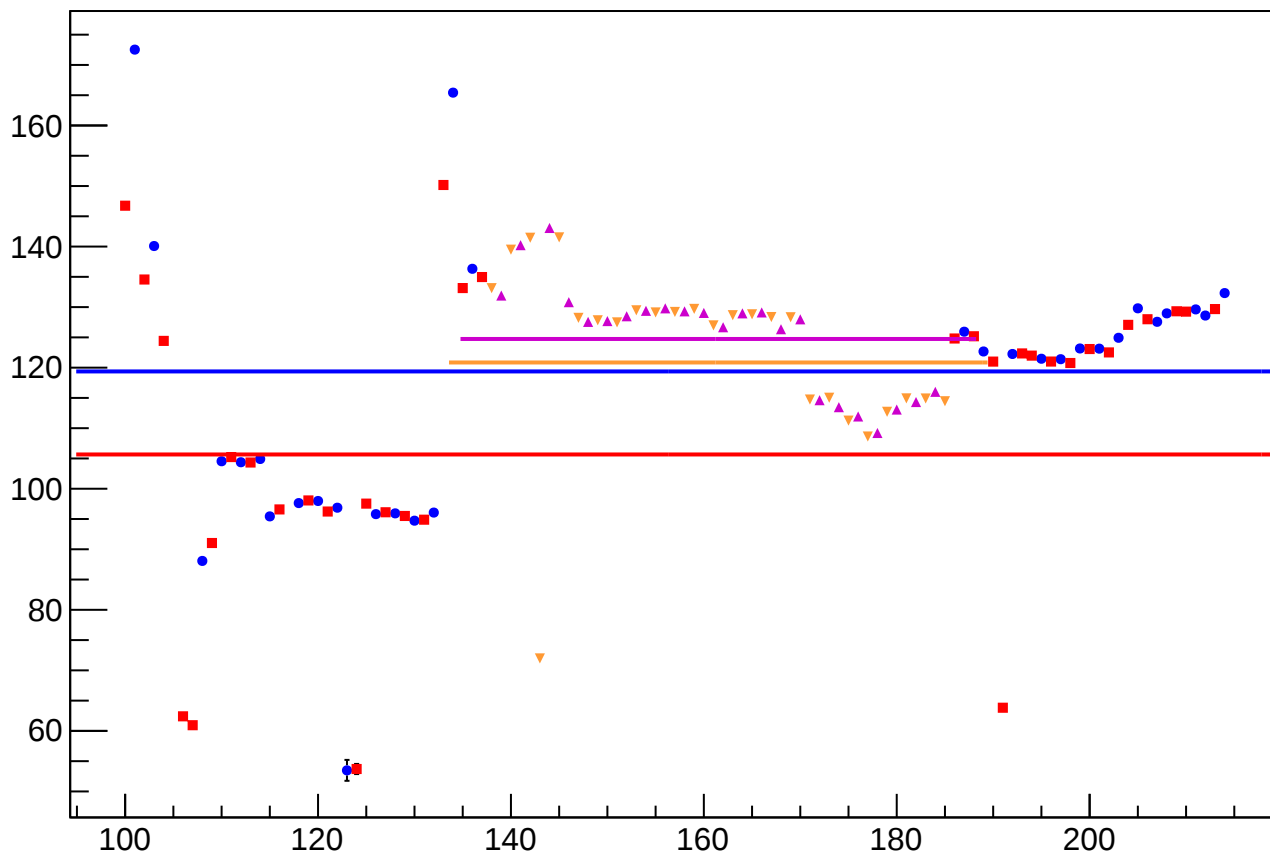
Right: -70.705+/-0.808 χ^2/NDF : 3436.3/64

In: -78.506+/-0.686 χ^2/NDF : 2119.4/53

Out: -72.944+/-0.645 χ^2/NDF : 2538.4/58

All: -75.556+/-0.470 χ^2/NDF : 4692.7/112

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.376 $\pm$ 0.061 χ^2 /NDF: 111416.7/30

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

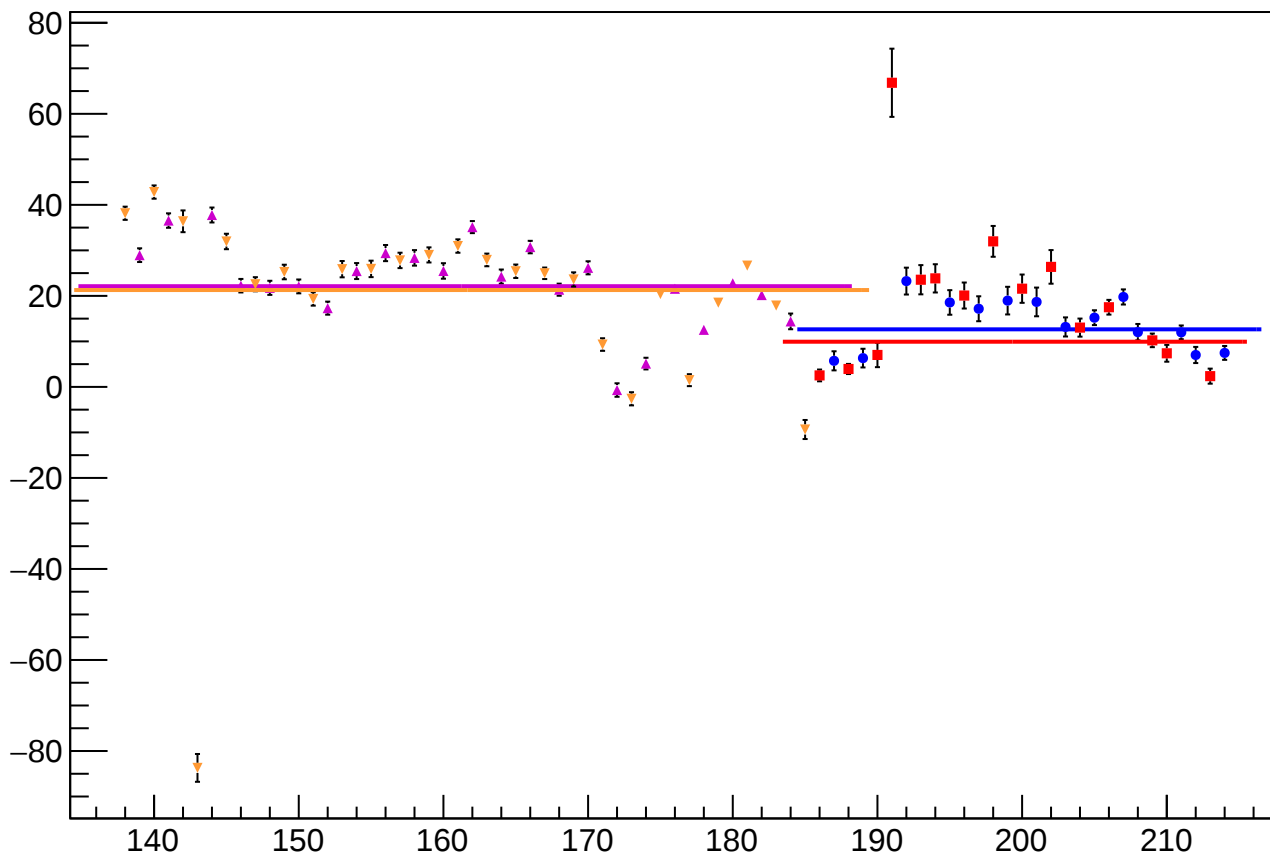
Right: 111.681 $\pm$ 0.040 χ^2 /NDF: 389732.1/64

In: 123.172 $\pm$ 0.033 χ^2 /NDF: 168167.1/53

Out: 115.819 $\pm$ 0.031 χ^2 /NDF: 485644.7/58

All: 119.277 $\pm$ 0.023 χ^2 /NDF: 680067.5/112

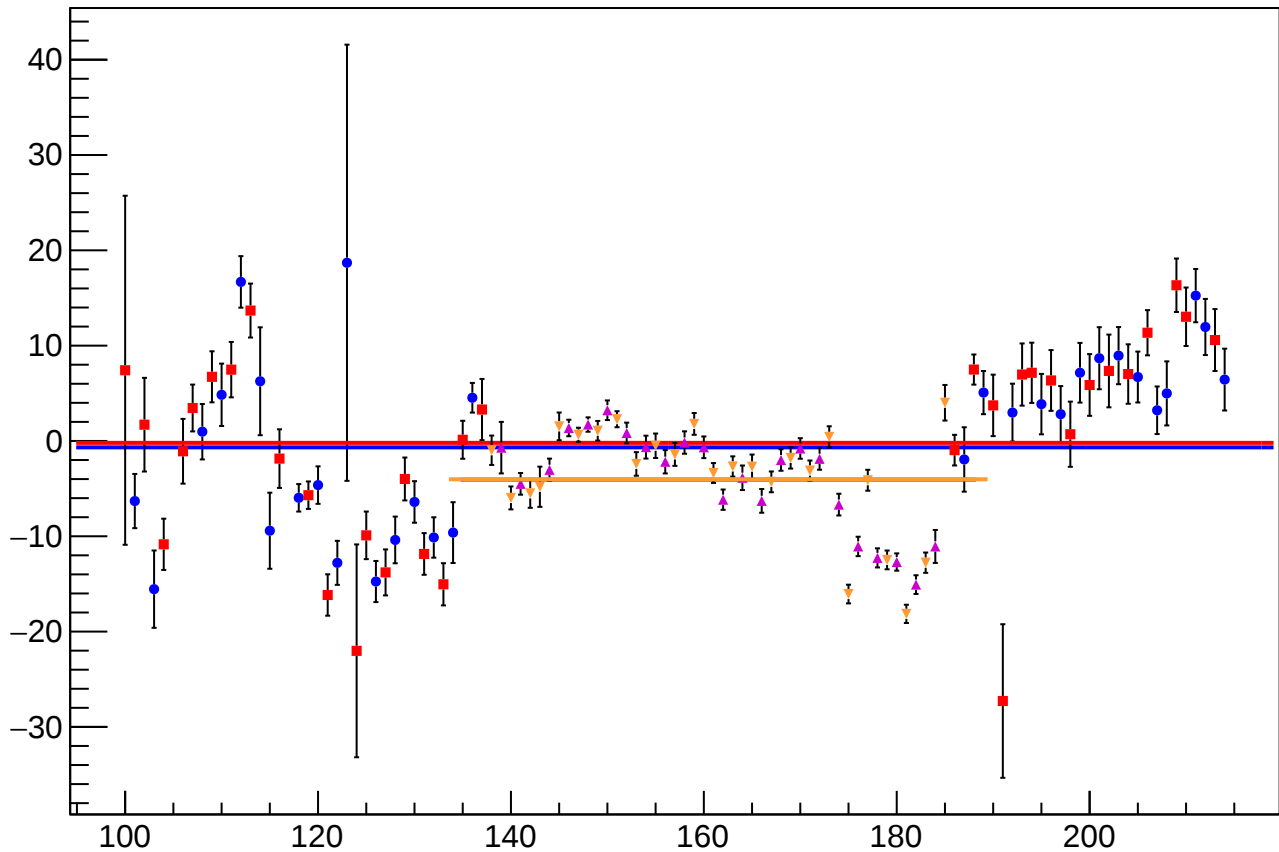
reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.649+/-0.533 χ^2/NDF : 91.5/13
 Left Out: 21.282+/-0.282 χ^2/NDF : 2600.5/24
 Right Out: 9.929+/-0.507 χ^2/NDF : 294.7/14
 Left In: 22.127+/-0.285 χ^2/NDF : 900.2/22

Left: 21.700+/-0.201 χ^2/NDF : 3505.2/47
 Right: 11.221+/-0.367 χ^2/NDF : 399.9/28
 In: 20.013+/-0.252 χ^2/NDF : 1237.5/36
 Out: 18.594+/-0.247 χ^2/NDF : 3277.8/39
 All: 19.290+/-0.176 χ^2/NDF : 4531.5/76

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.673 ± 0.470 $\chi^2/\text{NDF}: 322.8/30$

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 $\chi^2/\text{NDF}: 1311.4/47$

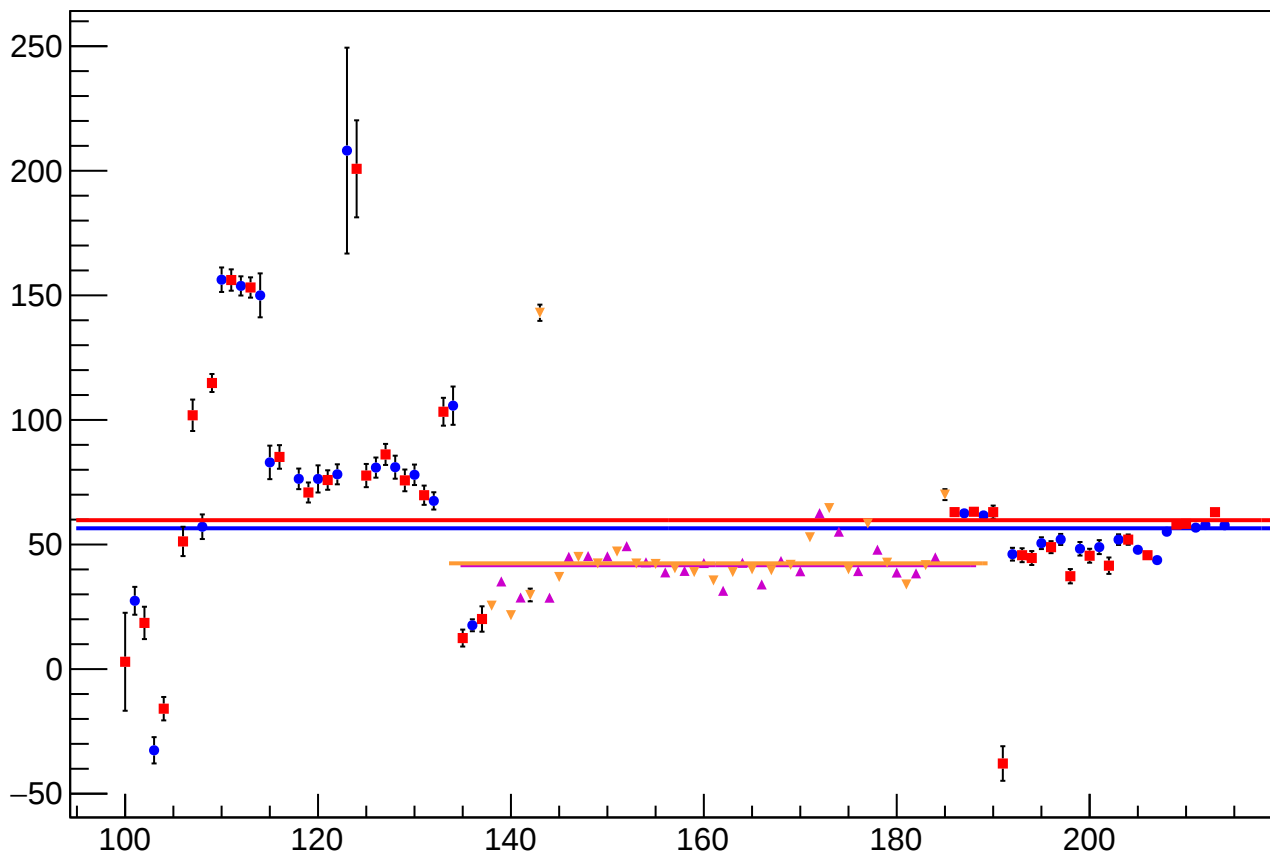
Right: -0.425 ± 0.325 $\chi^2/\text{NDF}: 728.4/64$

In: -3.414 ± 0.205 $\chi^2/\text{NDF}: 942.0/53$

Out: -3.263 ± 0.200 $\chi^2/\text{NDF}: 1197.4/58$

All: -3.337 ± 0.143 $\chi^2/\text{NDF}: 2139.7/112$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.515 $\pm$ 0.463 χ^2 /NDF: 2135.6/30

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

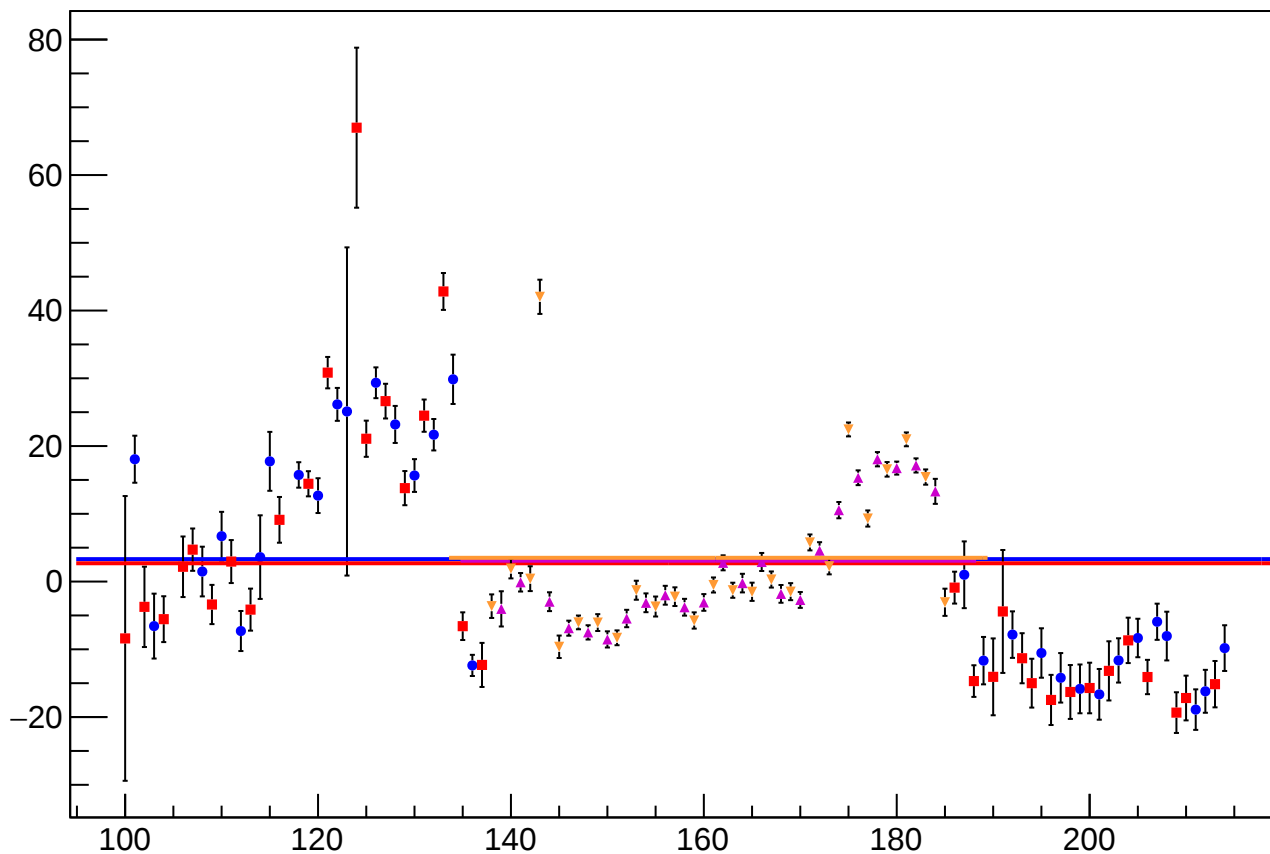
Right: 58.297 $\pm$ 0.311 χ^2 /NDF: 4795.5/64

In: 45.750 $\pm$ 0.242 χ^2 /NDF:3510.2/53

Out: 47.825 $\pm$ 0.234 χ^2 /NDF:5819.1/58

All: 46.822 $\pm$ 0.168 χ^2 /NDF: 9367.2/112

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 3.310 $\pm$ 0.535 χ^2 /NDF: 911.4/30

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

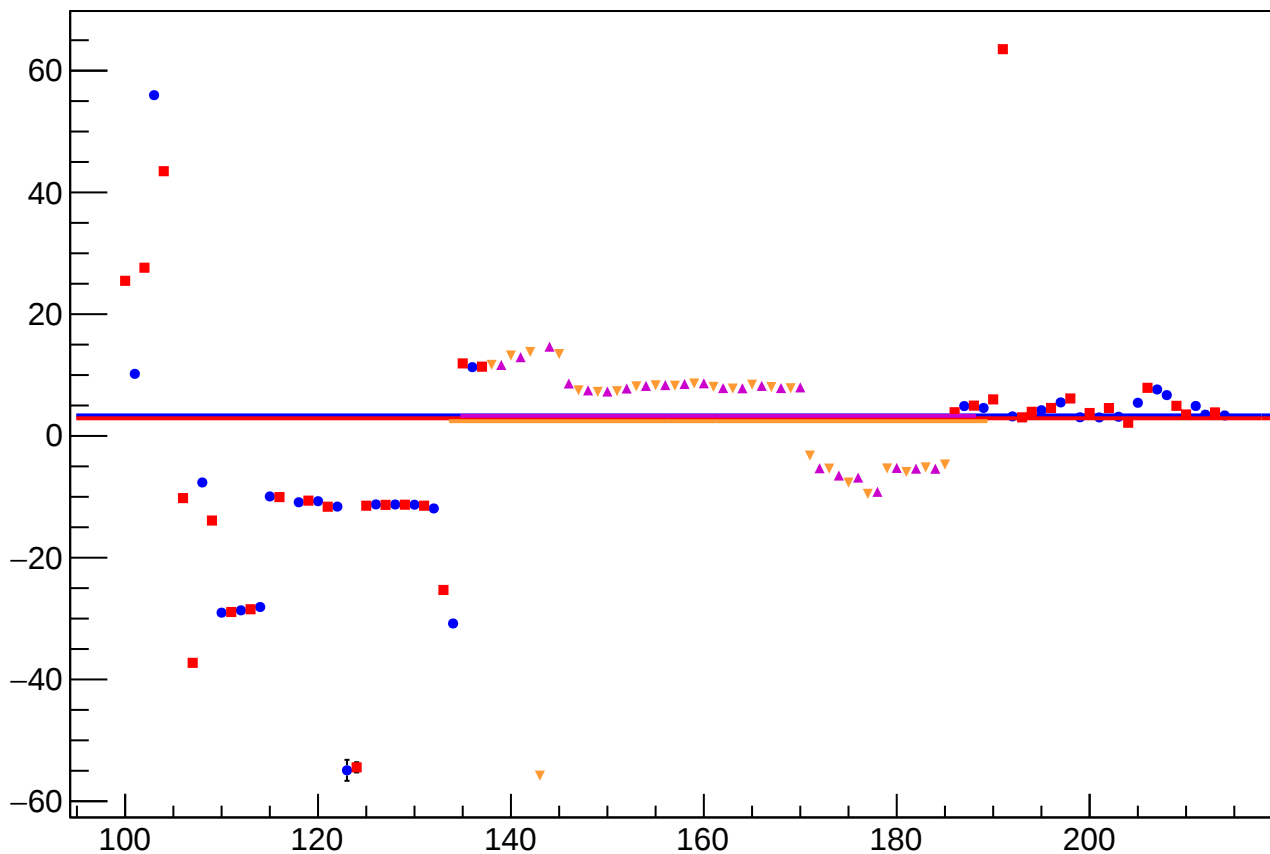
Right: 3.000 $\pm$ 0.375 χ^2 /NDF: 2015.3/64

In: 3.124 $\pm$ 0.232 χ^2 /NDF:2177.3/53

Out: 3.355 $\pm$ 0.228 χ^2 /NDF:2796.4/58

All: 3.242 $\pm$ 0.162 χ^2 /NDF: 4974.2/112

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.367 ± 0.025 $\chi^2/\text{NDF}: 362398.1/30$

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 $\chi^2/\text{NDF}: 1023497.1/47$

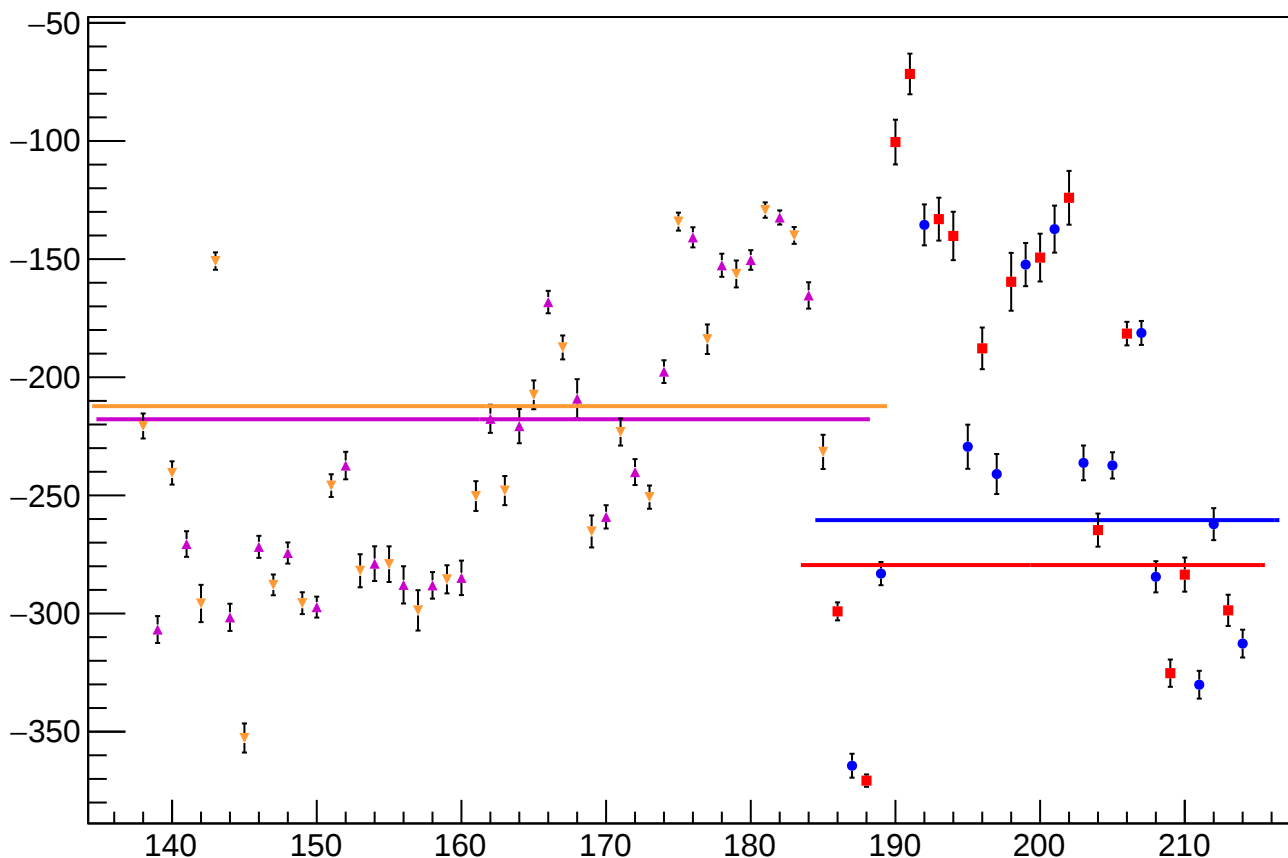
Right: 3.130 ± 0.018 $\chi^2/\text{NDF}: 797105.9/64$

In: 3.306 ± 0.011 $\chi^2/\text{NDF}: 766729.1/53$

Out: 2.510 ± 0.010 $\chi^2/\text{NDF}: 1051214.0/58$

All: 2.904 ± 0.007 $\chi^2/\text{NDF}: 1820803.0/112$

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -260.467 ± 1.731 χ^2/NDF : 1464.9/13

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

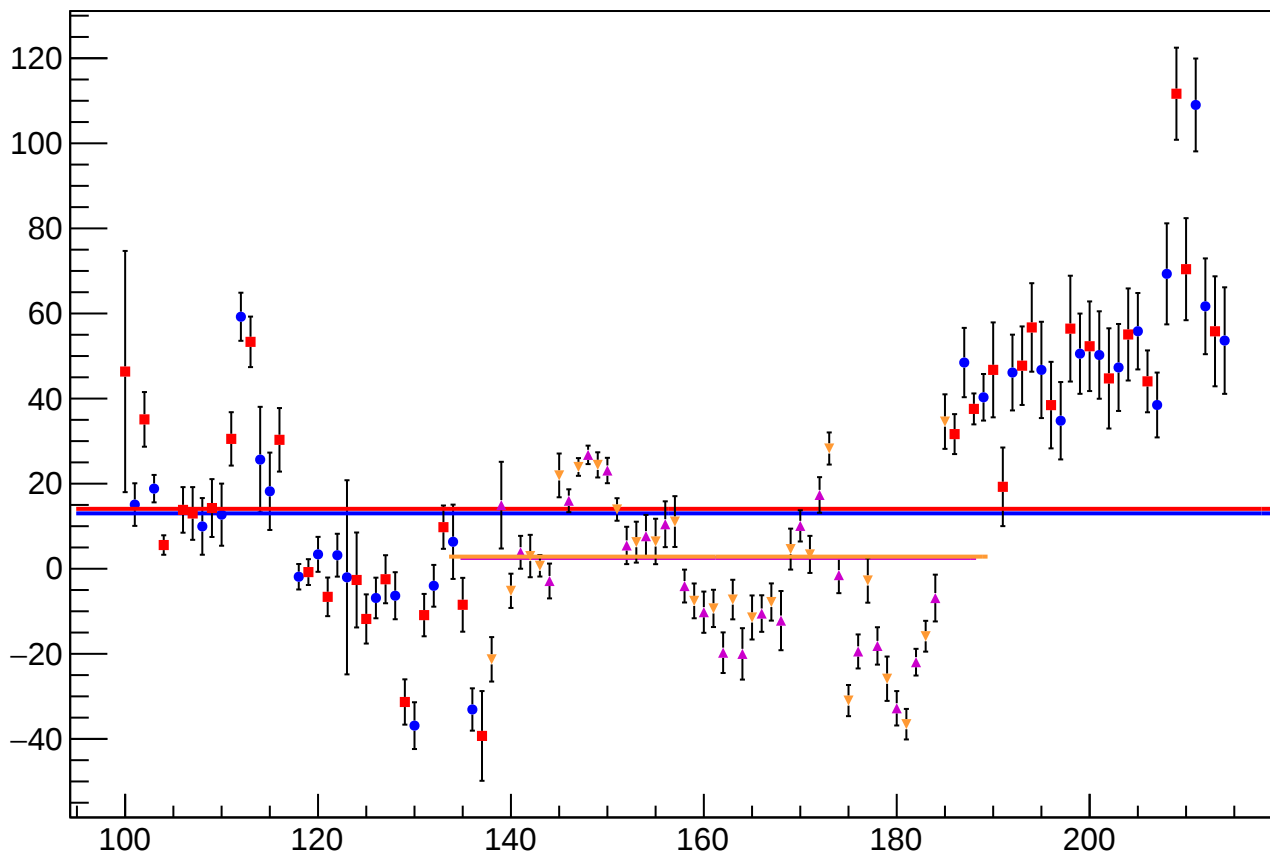
Right: -271.194 ± 1.143 χ^2/NDF : 5185.1/28

In: -229.530 ± 0.908 χ^2/NDF : 5354.6/36

Out: -233.336 ± 0.853 χ^2/NDF : 8867.0/39

All: -231.552 ± 0.622 χ^2/NDF : 14230.9/76

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.019+/-1.108 χ^2/NDF : 592.2/30

Left Out: 2.848+/-0.775 χ^2/NDF :582.1/24

Right Out: 14.081+/-1.006 χ^2/NDF : 570.8/33

Left In: 2.540+/-0.822 χ^2/NDF :473.6/22

Left: 2.703+/-0.564 χ^2/NDF : 1055.8/47

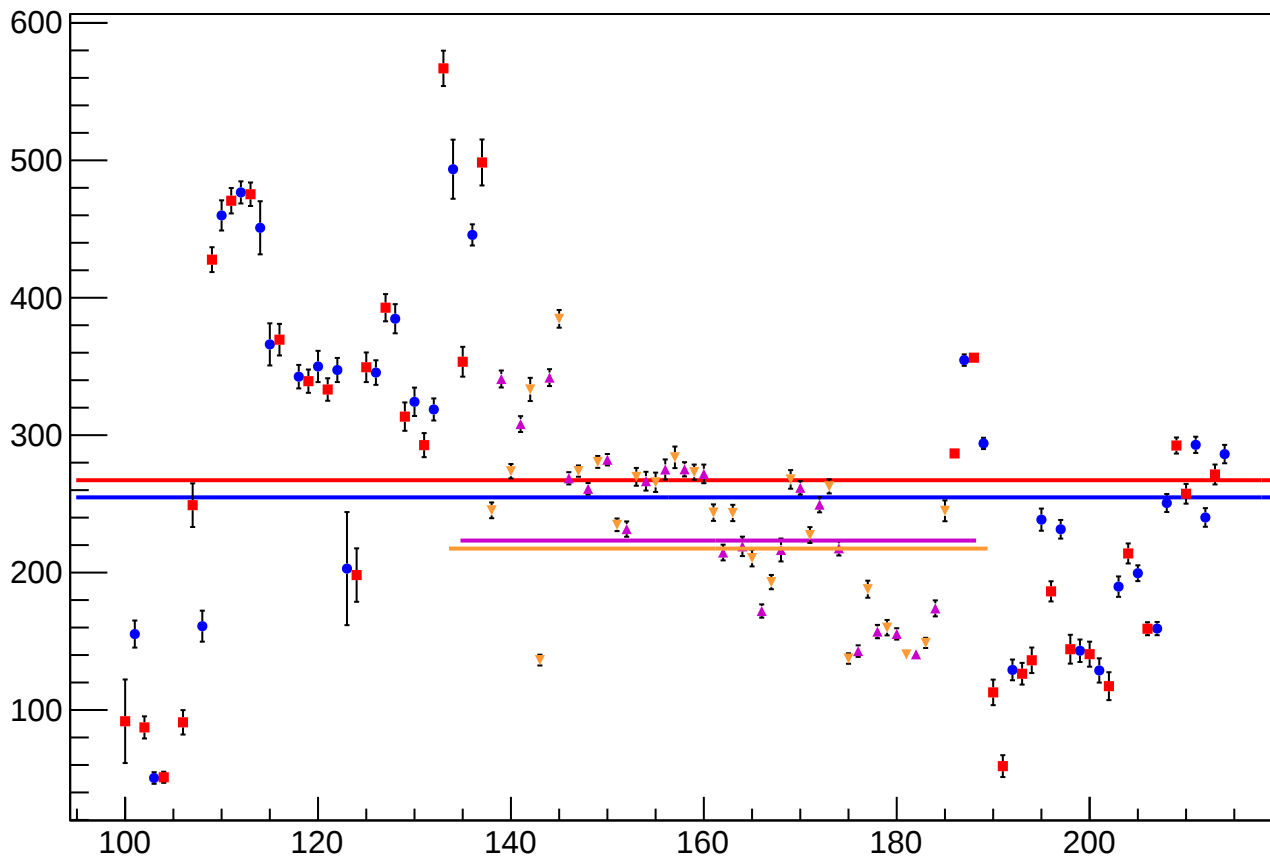
Right: 13.601+/-0.745 χ^2/NDF : 1163.5/64

In: 6.264+/-0.660 χ^2/NDF :1123.5/53

Out: 7.029+/-0.614 χ^2/NDF :1231.2/58

All: 6.674+/-0.450 χ^2/NDF : 2355.4/112

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 254.745 $\pm$ 1.299 χ^2 /NDF: 7140.8/30

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF: 3769.5/24

Right Out: 267.219 $\pm$ 1.117 χ^2 /NDF: 11052.1/33

Left In: 223.309 $\pm$ 1.062 χ^2 /NDF: 3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2 /NDF: 7163.0/47

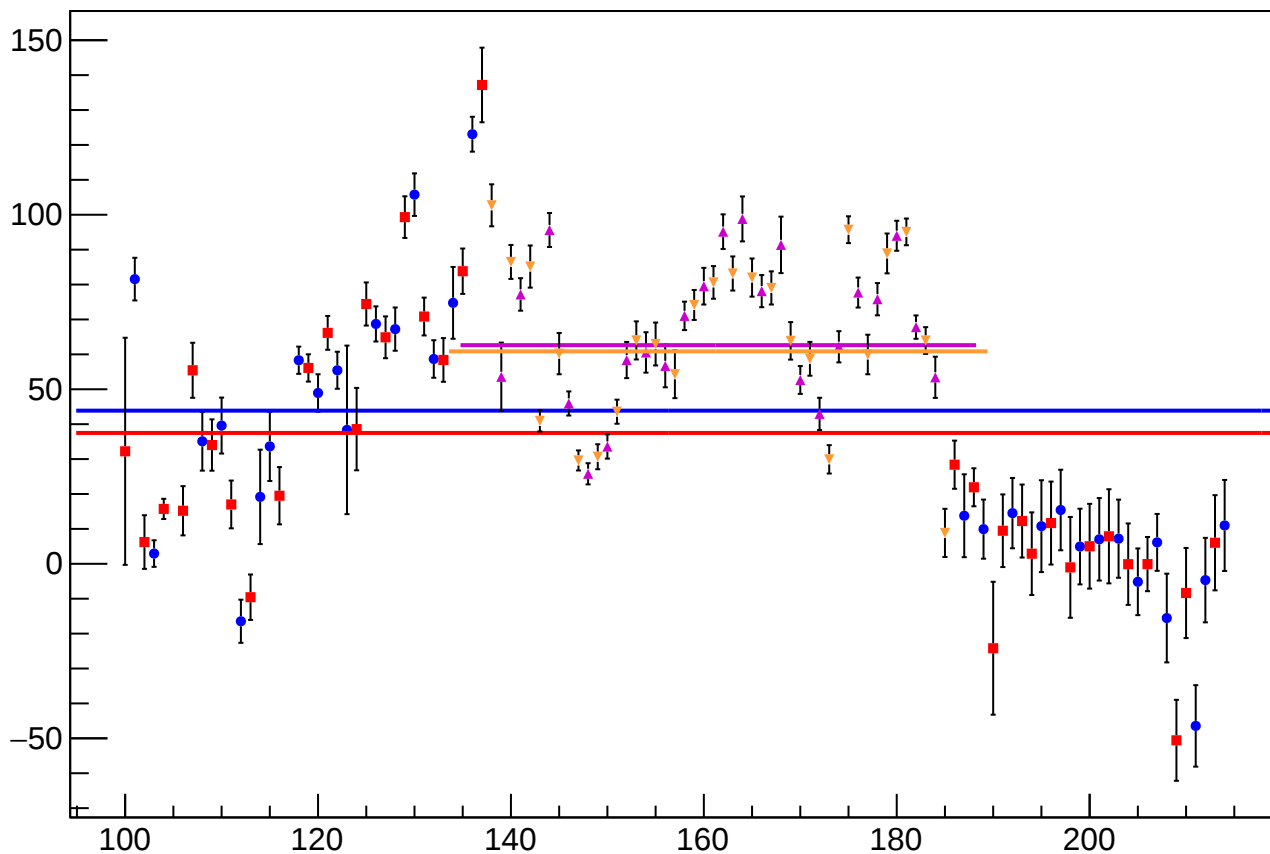
Right: 261.918 $\pm$ 0.847 χ^2 /NDF: 18245.9/64

In: 235.896 $\pm$ 0.822 χ^2 /NDF: 10869.7/53

Out: 240.391 $\pm$ 0.758 χ^2 /NDF: 15890.6/58

All: 238.325 $\pm$ 0.557 χ^2 /NDF: 26776.5/112

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.876 $\pm$ 1.289 χ^2 /NDF: 912.5/30

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

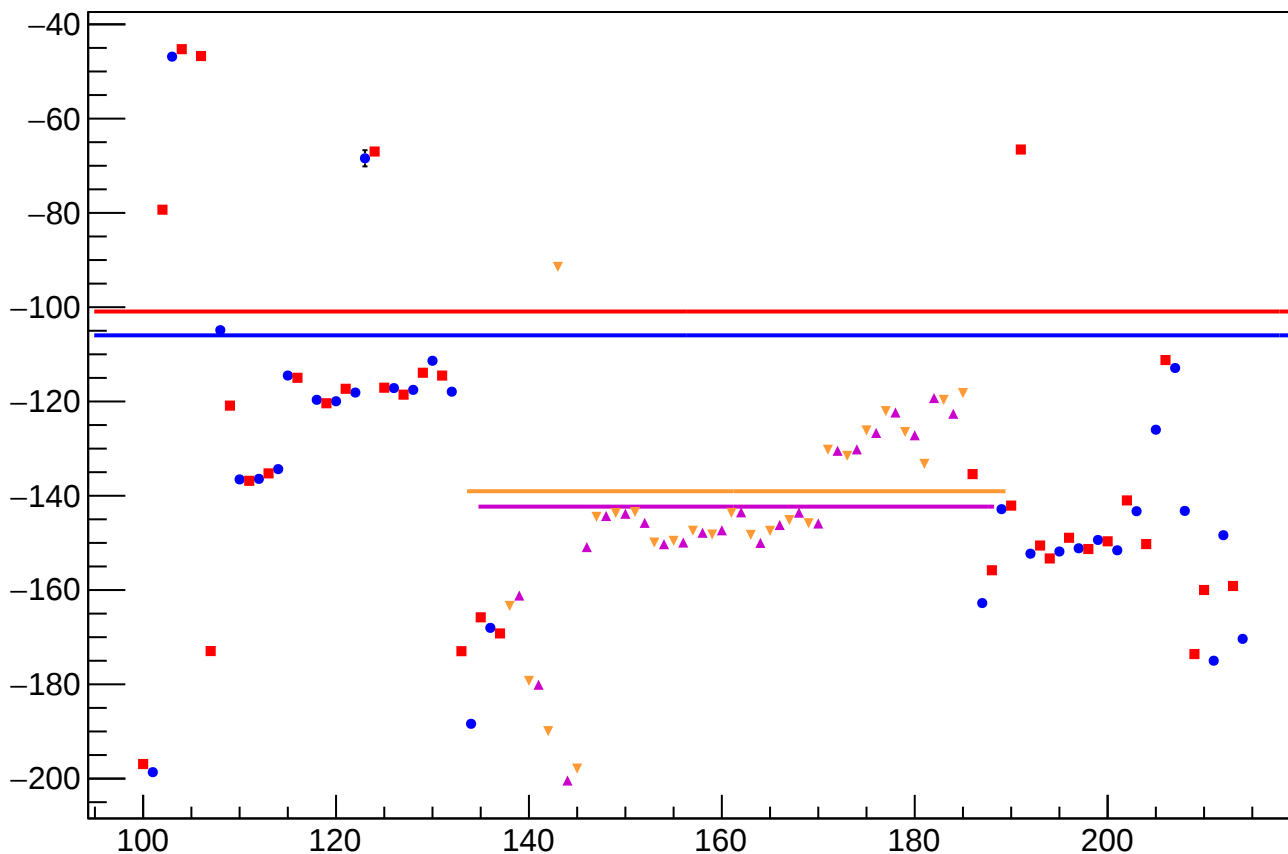
Right: 40.462 $\pm$ 0.879 χ^2 /NDF: 1664.3/64

In: 56.101 $\pm$ 0.761 χ^2 /NDF: 1565.9/53

Out: 52.513 $\pm$ 0.719 χ^2 /NDF: 1713.1/58

All: 54.205 $\pm$ 0.523 χ^2 /NDF: 3290.8/112

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -105.972 ± 0.058 $\chi^2/\text{NDF}: 730515.4/30$

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 $\chi^2/\text{NDF}: 404285.9/47$

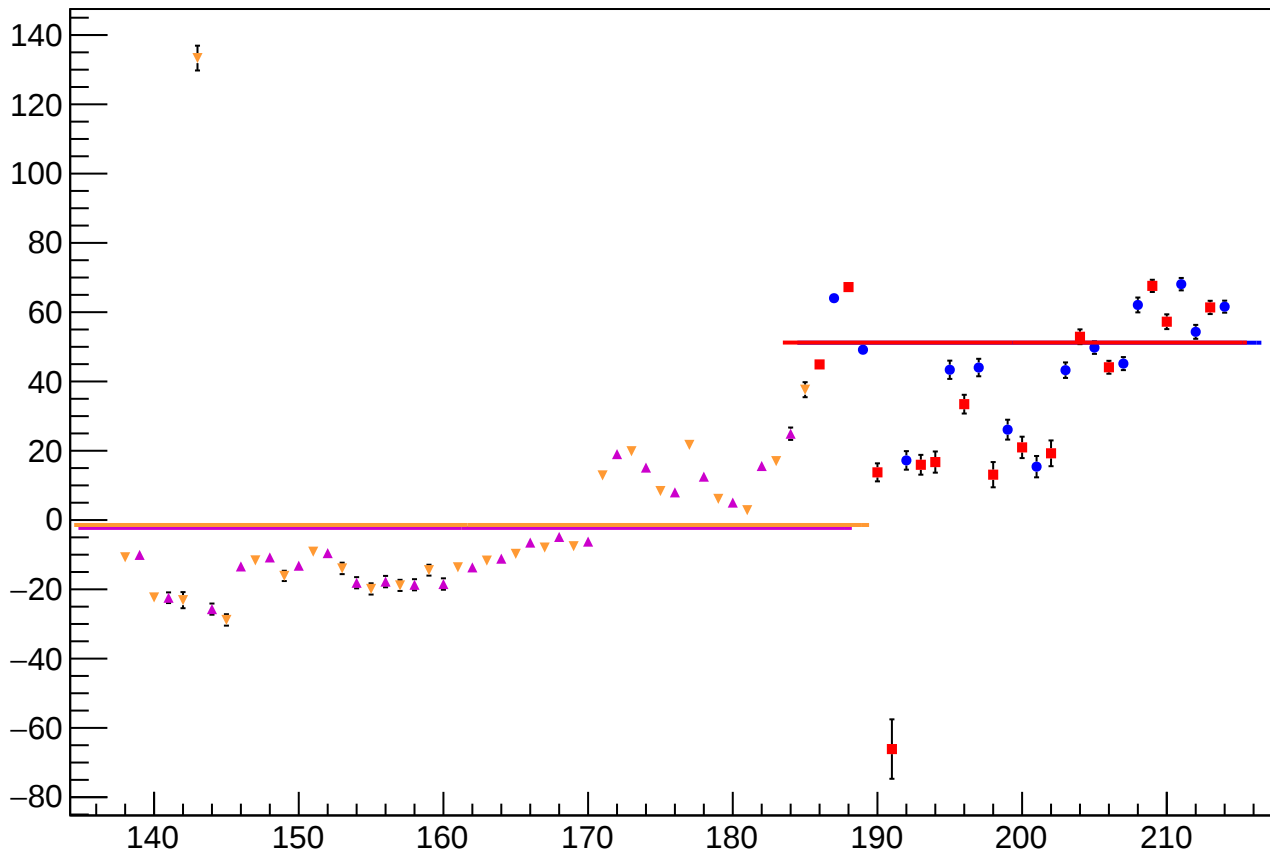
Right: -103.306 ± 0.040 $\chi^2/\text{NDF}: 1499173.0/64$

In: -128.862 ± 0.035 $\chi^2/\text{NDF}: 1125271.8/53$

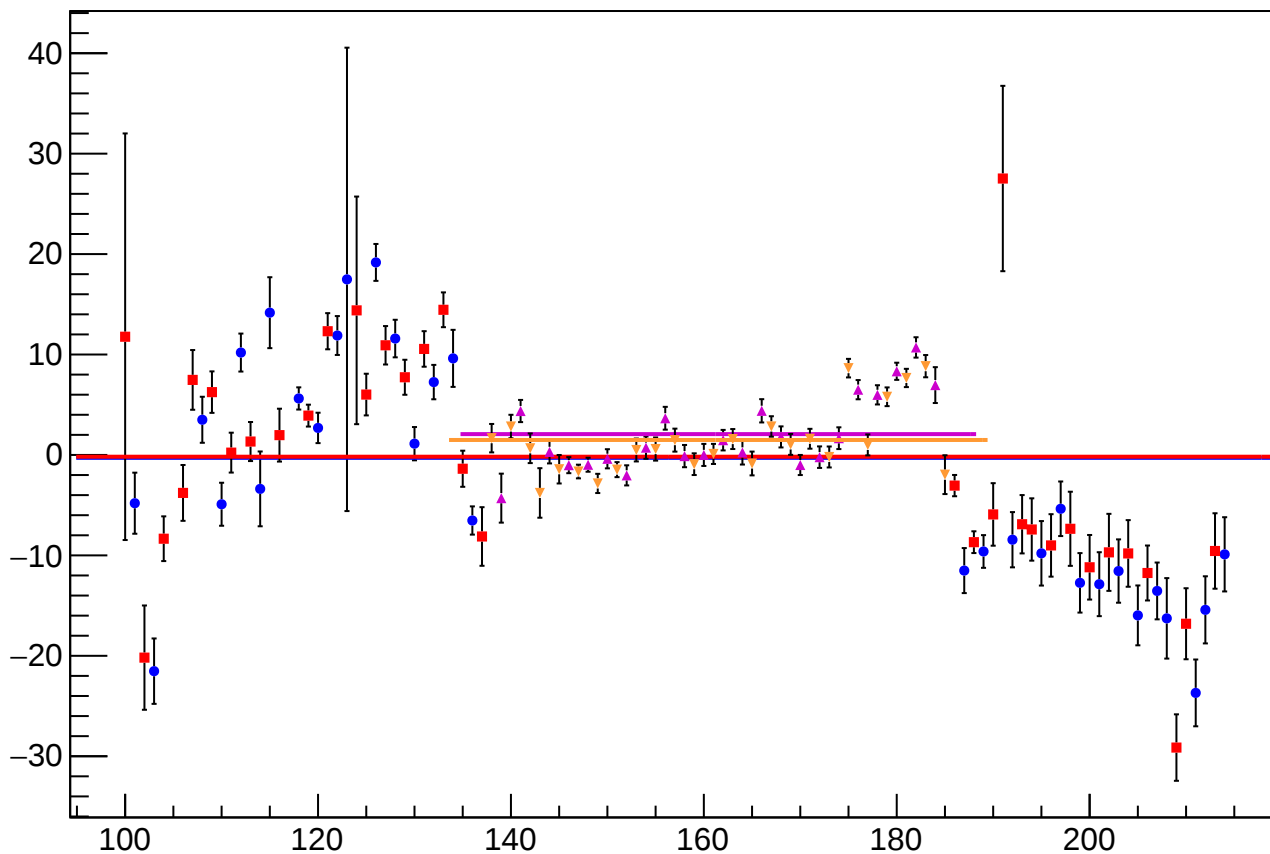
Out: -124.453 ± 0.034 $\chi^2/\text{NDF}: 1325296.9/58$

All: -126.574 ± 0.024 $\chi^2/\text{NDF}: 2458808.5/111$

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.285 ± 0.399 $\chi^2/\text{NDF}: 644.9/30$

Left Out: 1.491 ± 0.210 $\chi^2/\text{NDF}: 259.1/24$

Right Out: -0.175 ± 0.369 $\chi^2/\text{NDF}: 544.3/33$

Left In: 2.075 ± 0.215 $\chi^2/\text{NDF}: 274.6/22$

Left: 1.776 ± 0.150 $\chi^2/\text{NDF}: 537.4/47$

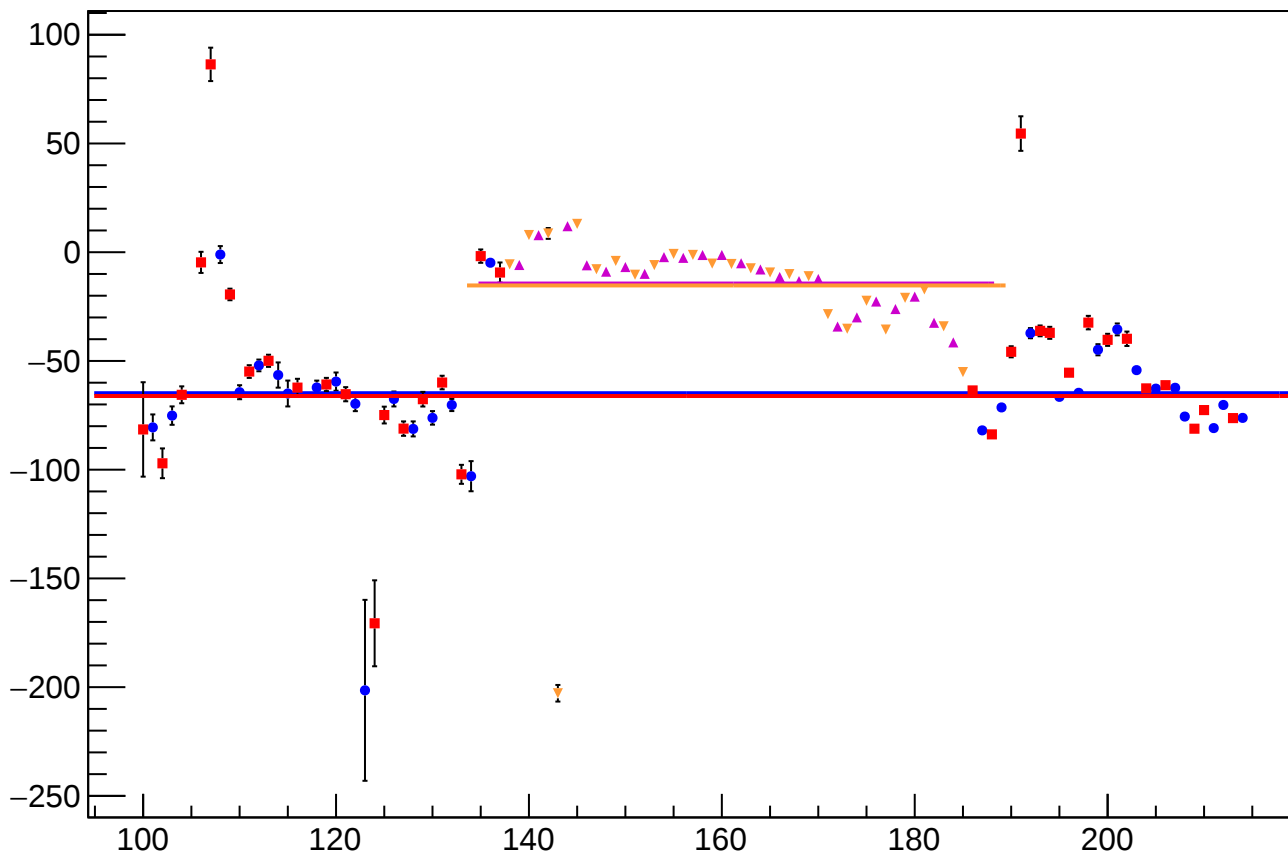
Right: -0.226 ± 0.271 $\chi^2/\text{NDF}: 1189.2/64$

In: 1.541 ± 0.189 $\chi^2/\text{NDF}: 946.6/53$

Out: 1.082 ± 0.183 $\chi^2/\text{NDF}: 818.7/58$

All: 1.304 ± 0.132 $\chi^2/\text{NDF}: 1768.4/112$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.834+/-0.427 χ^2/NDF : 1898.2/30

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

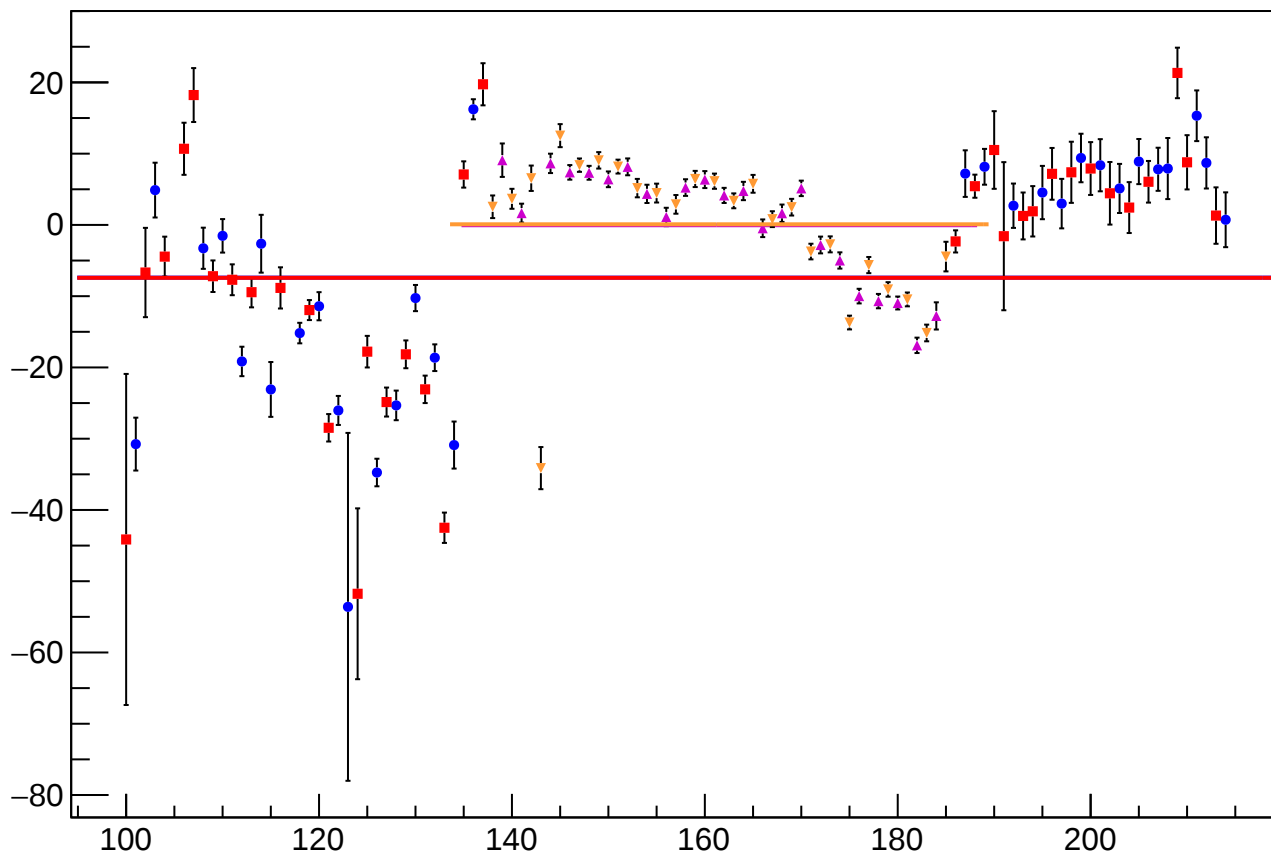
Right: -65.604+/-0.269 χ^2/NDF : 5324.1/64

In: -28.740+/-0.228 χ^2/NDF : 13912.1/53

Out: -34.142+/-0.212 χ^2/NDF : 21712.3/58

All: -31.639+/-0.155 χ^2/NDF : 35926.4/112

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -7.397 ± 0.461 χ^2/NDF : 1146.9/30

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -7.421 ± 0.442 χ^2/NDF : 1097.3/33

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

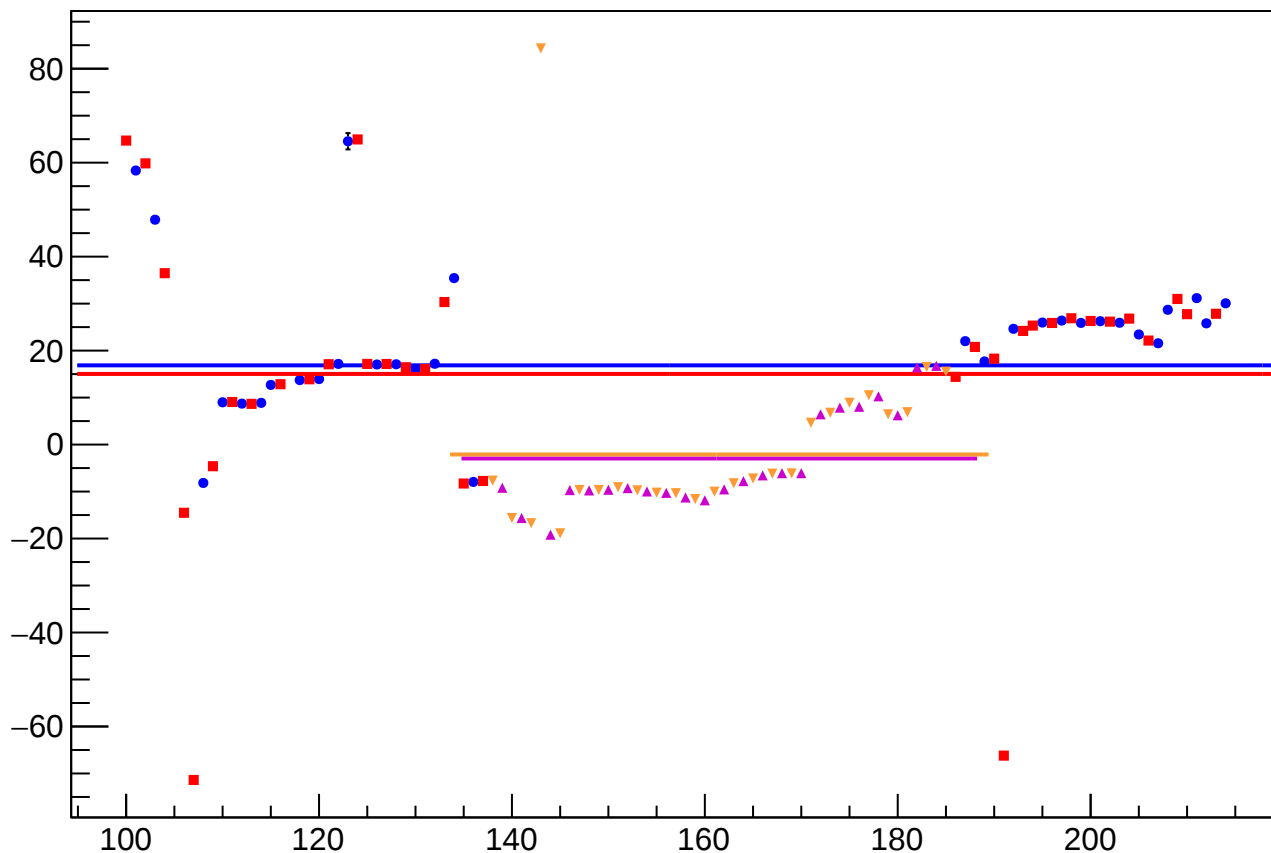
Right: -7.409 ± 0.319 χ^2/NDF : 2244.2/64

In: -1.642 ± 0.215 χ^2/NDF : 2374.0/53

Out: -1.604 ± 0.210 χ^2/NDF : 2493.3/58

All: -1.623 ± 0.150 χ^2/NDF : 4867.3/112

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 16.863+/-0.023 χ^2/NDF : 490215.0/30

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 15.034+/-0.022 χ^2/NDF : 767603.3/33

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

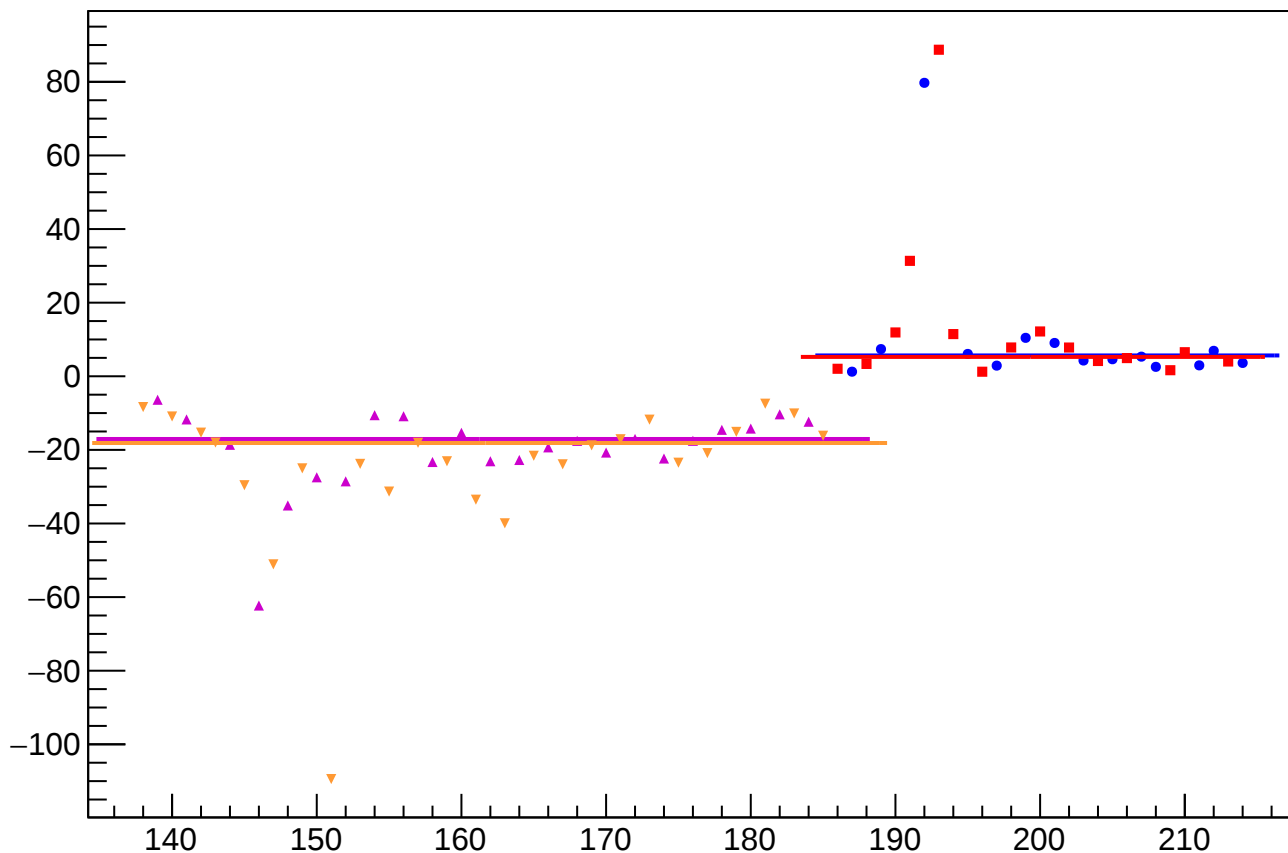
Right: 15.932+/-0.016 χ^2/NDF : 1261080.0/64

In: 0.774+/-0.010 χ^2/NDF : 1864607.6/53

Out: 1.177+/-0.010 χ^2/NDF : 2332276.5/58

All: 0.977+/-0.007 χ^2/NDF : 4197717.9/112

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.658 $\pm$ 0.050 χ^2 /NDF: 26458.1/13

Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF: 88551.6/24

Right Out: 5.262 $\pm$ 0.049 χ^2 /NDF: 26884.2/14

Left In: -17.038 $\pm$ 0.038 χ^2 /NDF: 44141.1/22

Left: -17.572 $\pm$ 0.027 χ^2 /NDF: 133092.4/47

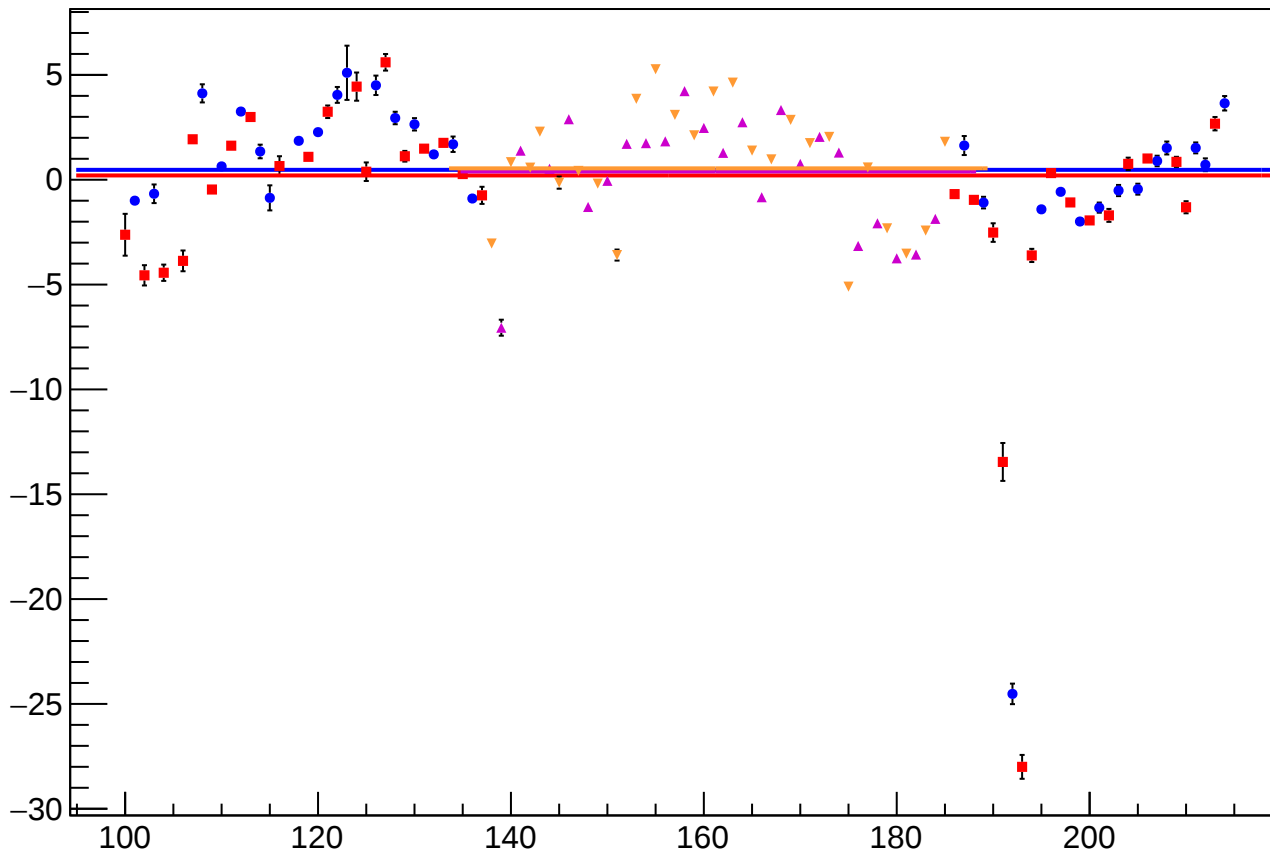
Right: 5.458 $\pm$ 0.035 χ^2 /NDF: 53374.1/28

In: -8.693 $\pm$ 0.030 χ^2 /NDF: 200718.5/36

Out: -9.180 $\pm$ 0.031 χ^2 /NDF: 253650.3/39

All: -8.934 $\pm$ 0.022 χ^2 /NDF: 454496.7/76

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.472 $\pm$ 0.046 χ^2 /NDF: 3946.6/30

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

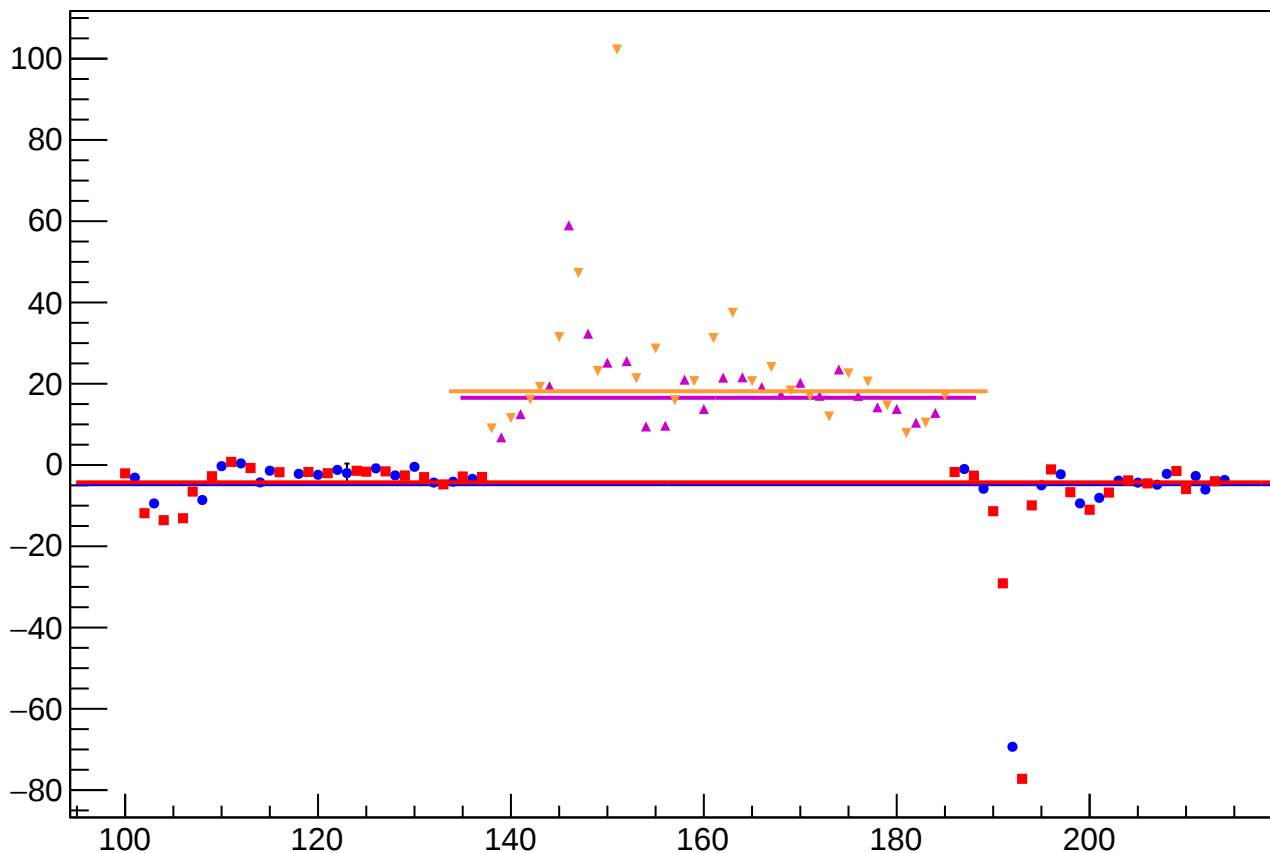
Right: 0.332 $\pm$ 0.032 χ^2 /NDF: 8323.2/64

In: 0.420 $\pm$ 0.026 χ^2 /NDF: 10184.0/53

Out: 0.425 $\pm$ 0.026 χ^2 /NDF: 11482.6/58

All: 0.423 $\pm$ 0.018 χ^2 /NDF: 21666.6/112

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.722+/-0.044 χ^2/NDF : 27274.1/30

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

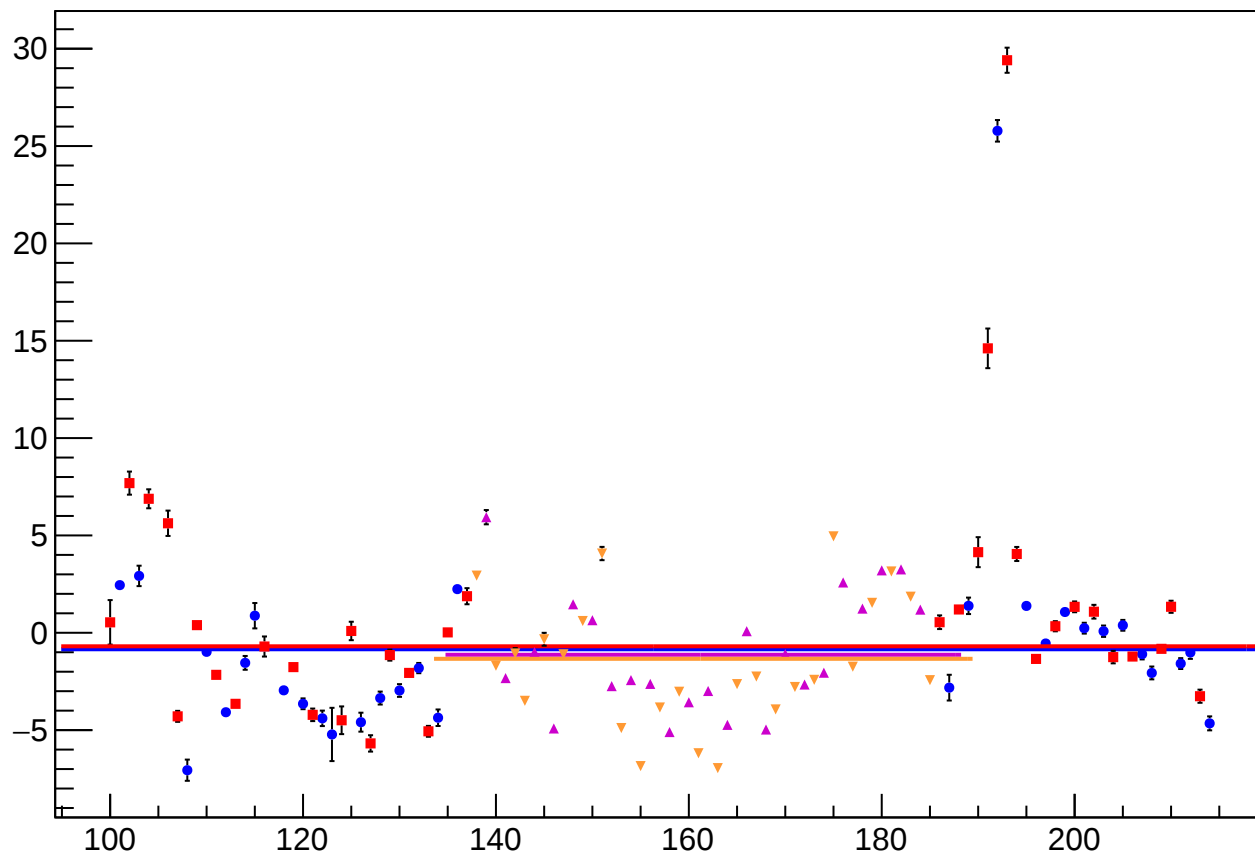
Right: -4.478+/-0.030 χ^2/NDF : 55566.8/64

In: 7.436+/-0.029 χ^2/NDF : 203958.9/53

Out: 7.453+/-0.028 χ^2/NDF : 262946.3/58

All: 7.445+/-0.020 χ^2/NDF : 466905.4/112

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.847 ± 0.053 $\chi^2/\text{NDF}: 4056.4/30$

Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$

Right Out: -0.695 ± 0.051 $\chi^2/\text{NDF}: 4575.5/33$

Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$

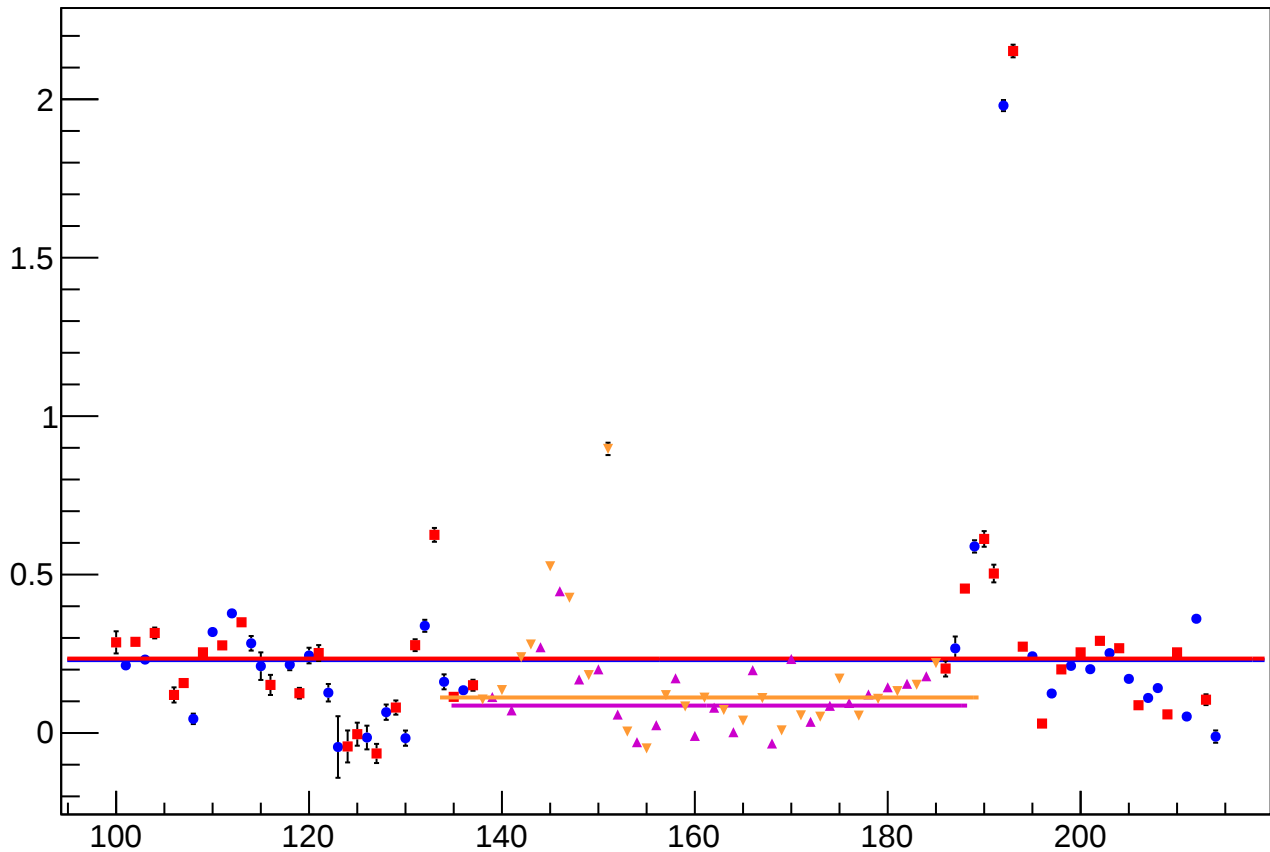
Right: -0.767 ± 0.037 $\chi^2/\text{NDF}: 8636.1/64$

In: -1.047 ± 0.029 $\chi^2/\text{NDF}: 10816.5/53$

Out: -1.125 ± 0.029 $\chi^2/\text{NDF}: 12624.5/58$

All: -1.085 ± 0.021 $\chi^2/\text{NDF}: 23444.6/112$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.230+/-0.002 χ^2/NDF : 11855.1/30

Left Out: 0.112+/-0.002 χ^2/NDF : 4503.9/24

Right Out: 0.235+/-0.002 χ^2/NDF : 12169.4/33

Left In: 0.087+/-0.002 χ^2/NDF : 3655.4/22

Left: 0.098+/-0.001 χ^2/NDF : 8295.3/47

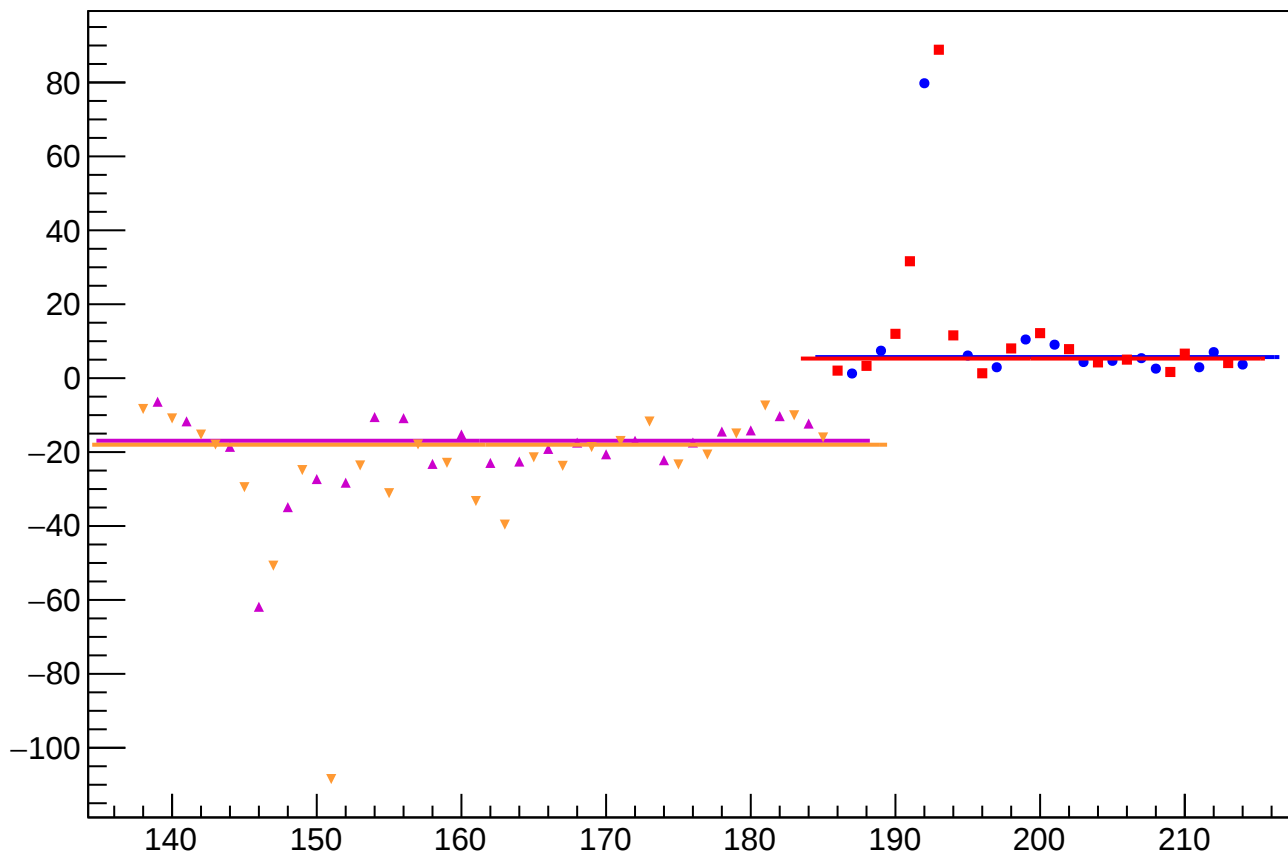
Right: 0.232+/-0.002 χ^2/NDF : 24026.6/64

In: 0.128+/-0.001 χ^2/NDF : 18132.0/53

Out: 0.152+/-0.001 χ^2/NDF : 18572.1/58

All: 0.139+/-0.001 χ^2/NDF : 36878.9/112

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.705 $\pm$ 0.050 χ^2 /NDF: 26673.7/13

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

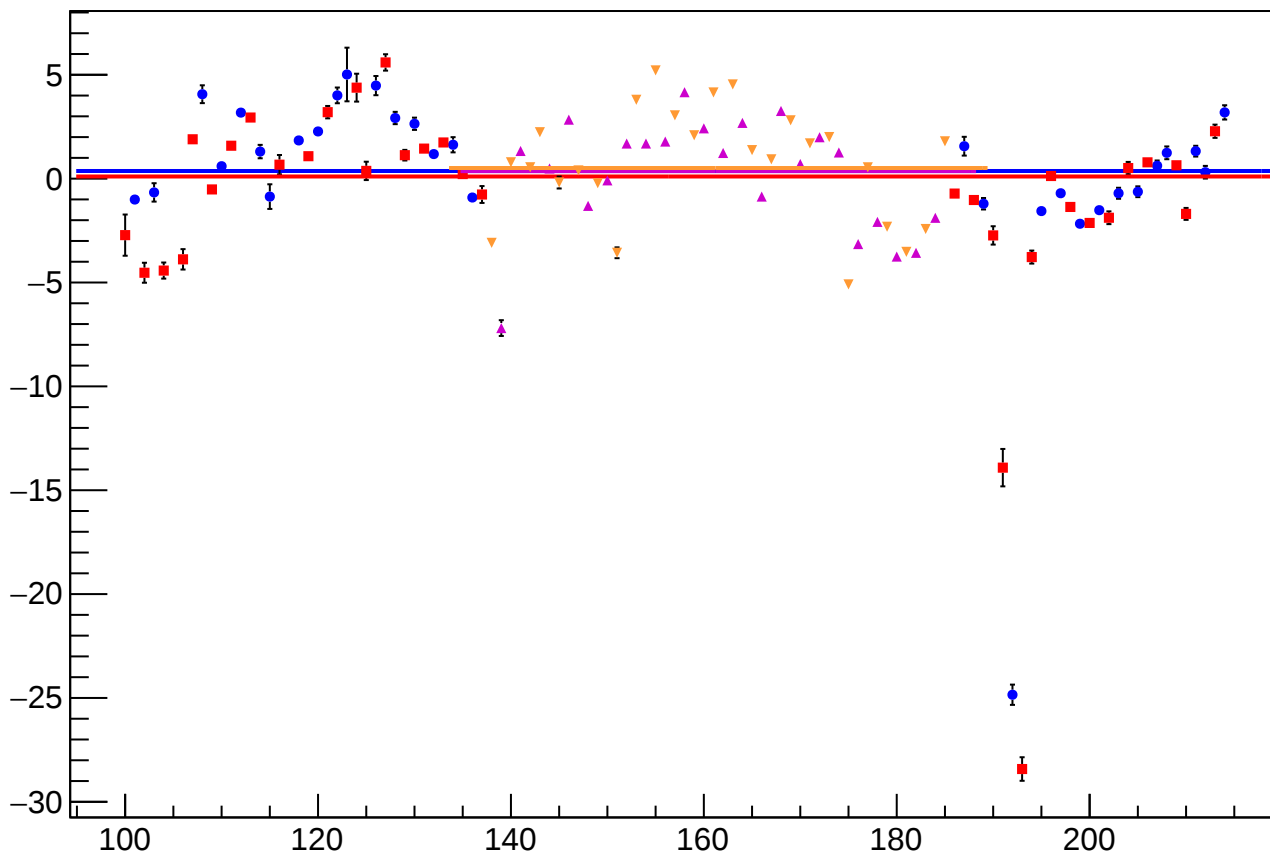
Right: 5.502 $\pm$ 0.035 χ^2 /NDF: 53946.1/28

In: -8.635 $\pm$ 0.030 χ^2 /NDF: 201509.8/36

Out: -9.096 $\pm$ 0.030 χ^2 /NDF: 254713.8/39

All: -8.864 $\pm$ 0.021 χ^2 /NDF: 456339.2/76

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.369 $\pm$ 0.046 χ^2 /NDF: 4053.7/30

Left Out: 0.511 $\pm$ 0.032 χ^2 /NDF: 7070.4/24

Right Out: 0.104 $\pm$ 0.044 χ^2 /NDF: 4514.8/33

Left In: 0.360 $\pm$ 0.031 χ^2 /NDF: 6221.1/22

Left: 0.432 $\pm$ 0.022 χ^2 /NDF: 13303.2/47

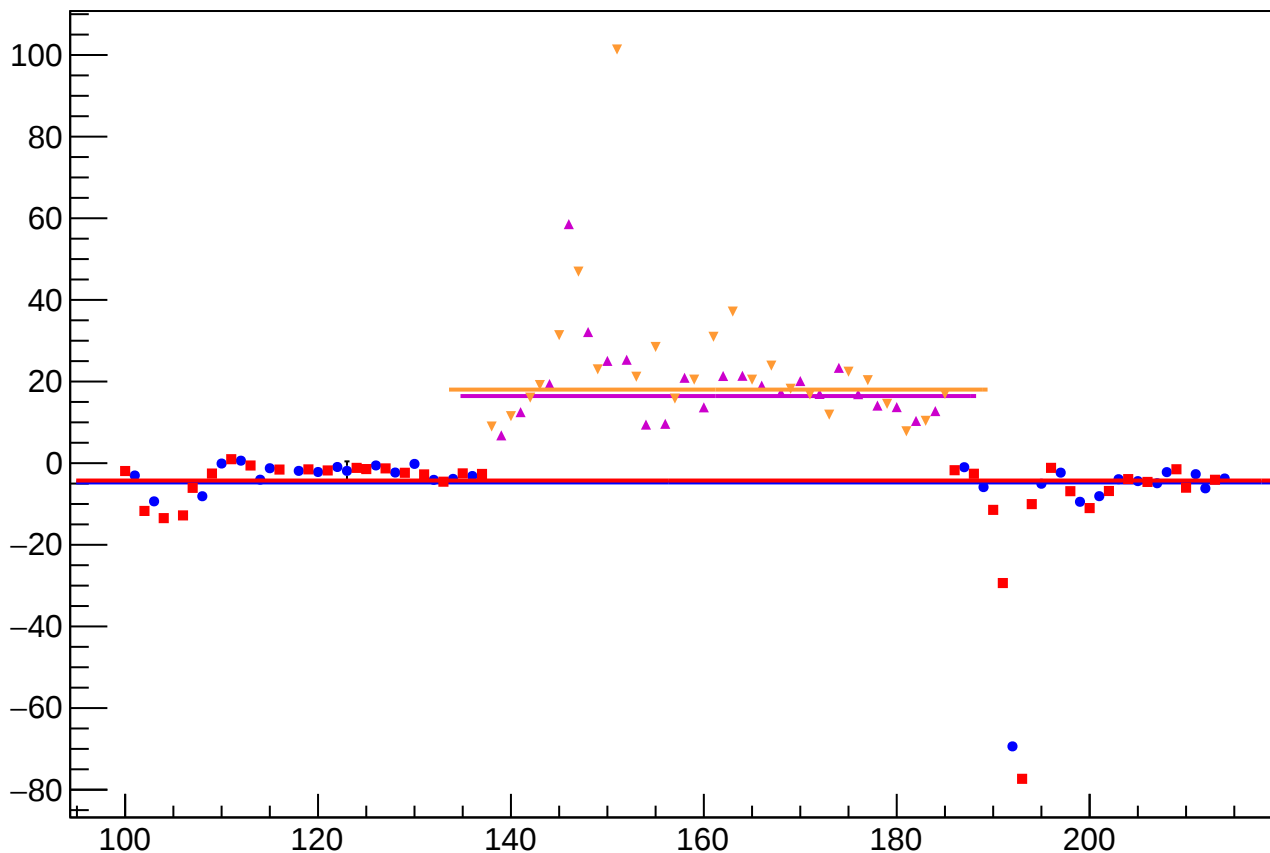
Right: 0.230 $\pm$ 0.032 χ^2 /NDF: 8585.8/64

In: 0.362 $\pm$ 0.025 χ^2 /NDF: 10274.9/53

Out: 0.370 $\pm$ 0.026 χ^2 /NDF: 11641.2/58

All: 0.366 $\pm$ 0.018 χ^2 /NDF: 21916.1/112

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.722 ± 0.043 $\chi^2/\text{NDF}: 27593.9/30$

Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$

Right Out: -4.250 ± 0.041 $\chi^2/\text{NDF}: 28699.5/33$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

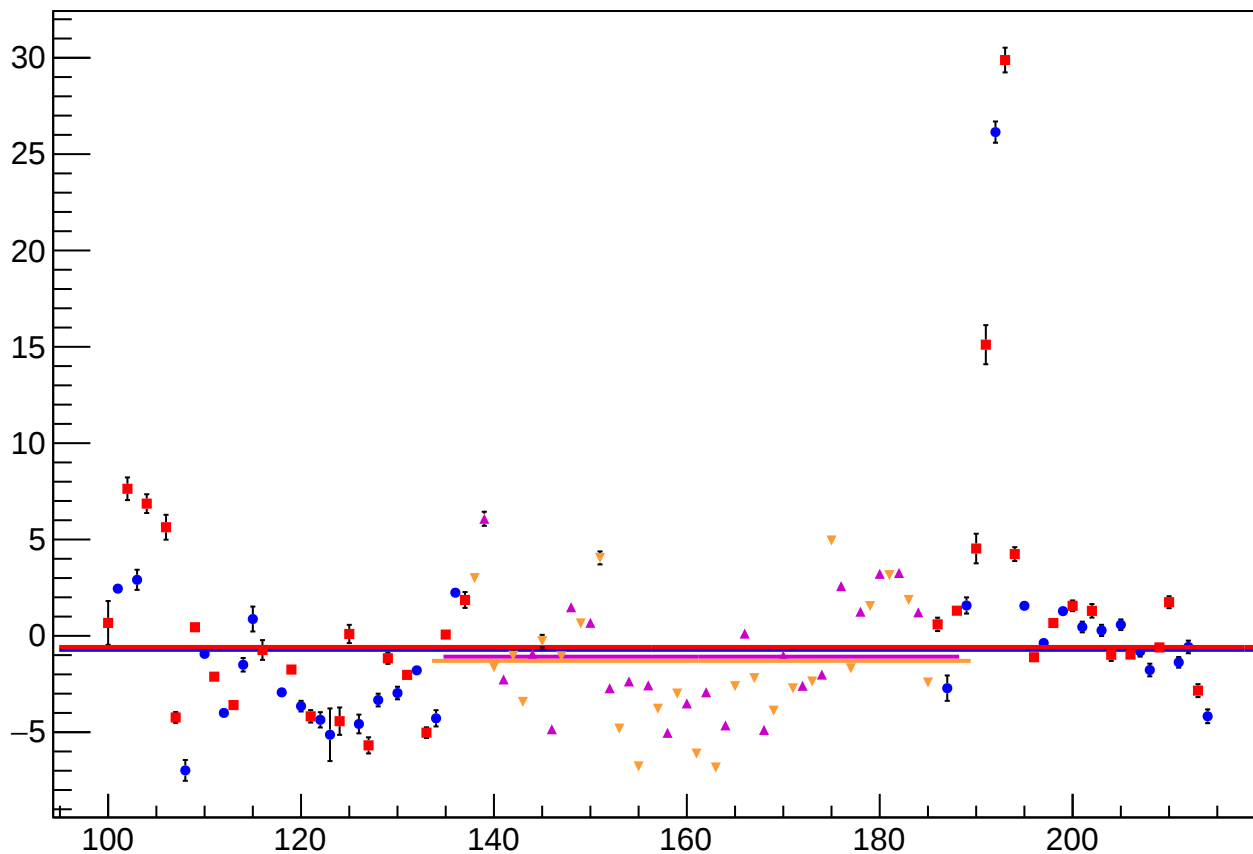
Right: -4.471 ± 0.030 $\chi^2/\text{NDF}: 56356.4/64$

In: 7.403 ± 0.028 $\chi^2/\text{NDF}: 204365.7/53$

Out: 7.399 ± 0.028 $\chi^2/\text{NDF}: 263515.8/58$

All: 7.401 ± 0.020 $\chi^2/\text{NDF}: 467881.5/112$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.725 ± 0.053 χ^2/NDF : 4139.6/30

Left Out: -1.297 ± 0.036 χ^2/NDF : 7925.1/24

Right Out: -0.576 ± 0.051 χ^2/NDF : 4726.8/33

Left In: -1.082 ± 0.034 χ^2/NDF : 6724.1/22

Left: -1.184 ± 0.025 χ^2/NDF : 14668.4/47

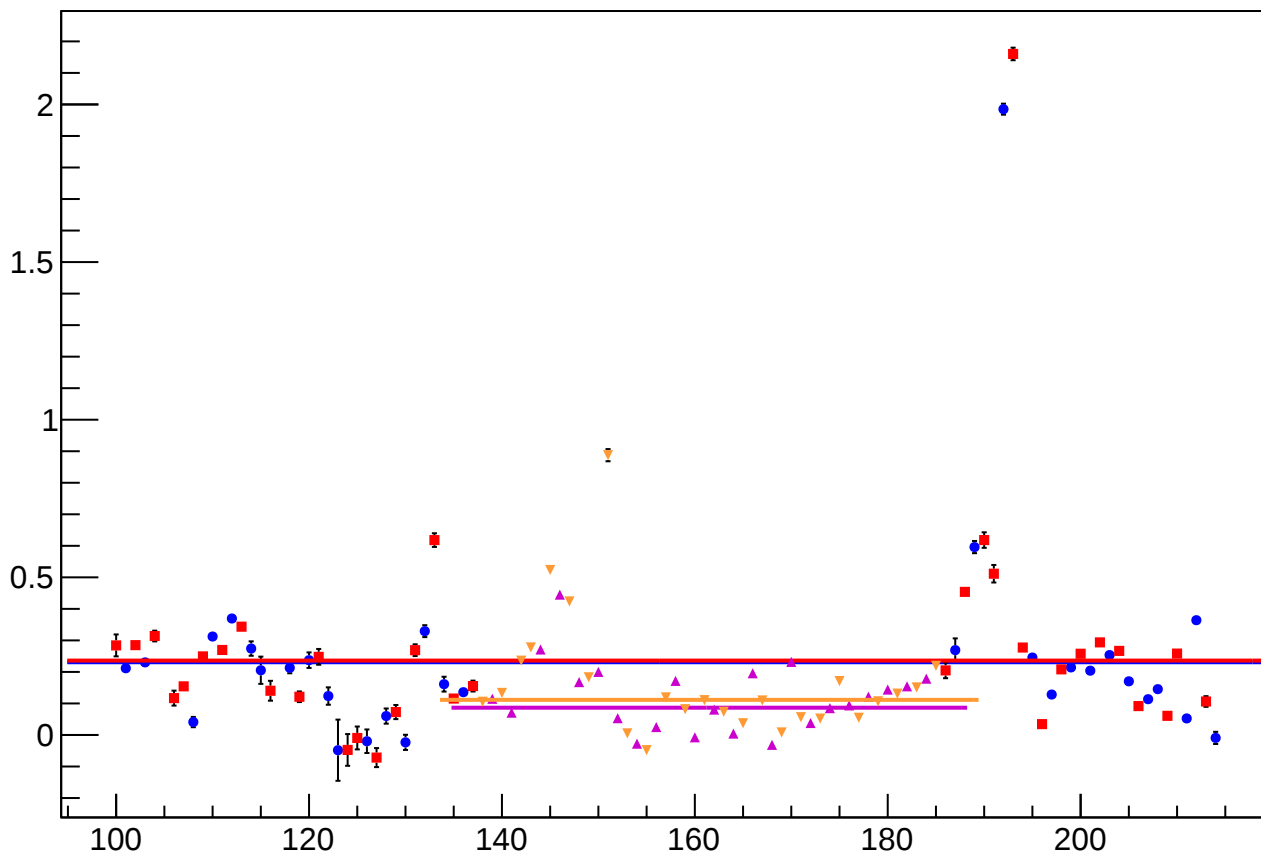
Right: -0.647 ± 0.037 χ^2/NDF : 8870.5/64

In: -0.978 ± 0.029 χ^2/NDF : 10895.8/53

Out: -1.060 ± 0.029 χ^2/NDF : 12786.7/58

All: -1.018 ± 0.020 χ^2/NDF : 23686.5/112

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.231 $\pm$ 0.002 χ^2 /NDF: 11980.8/30

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

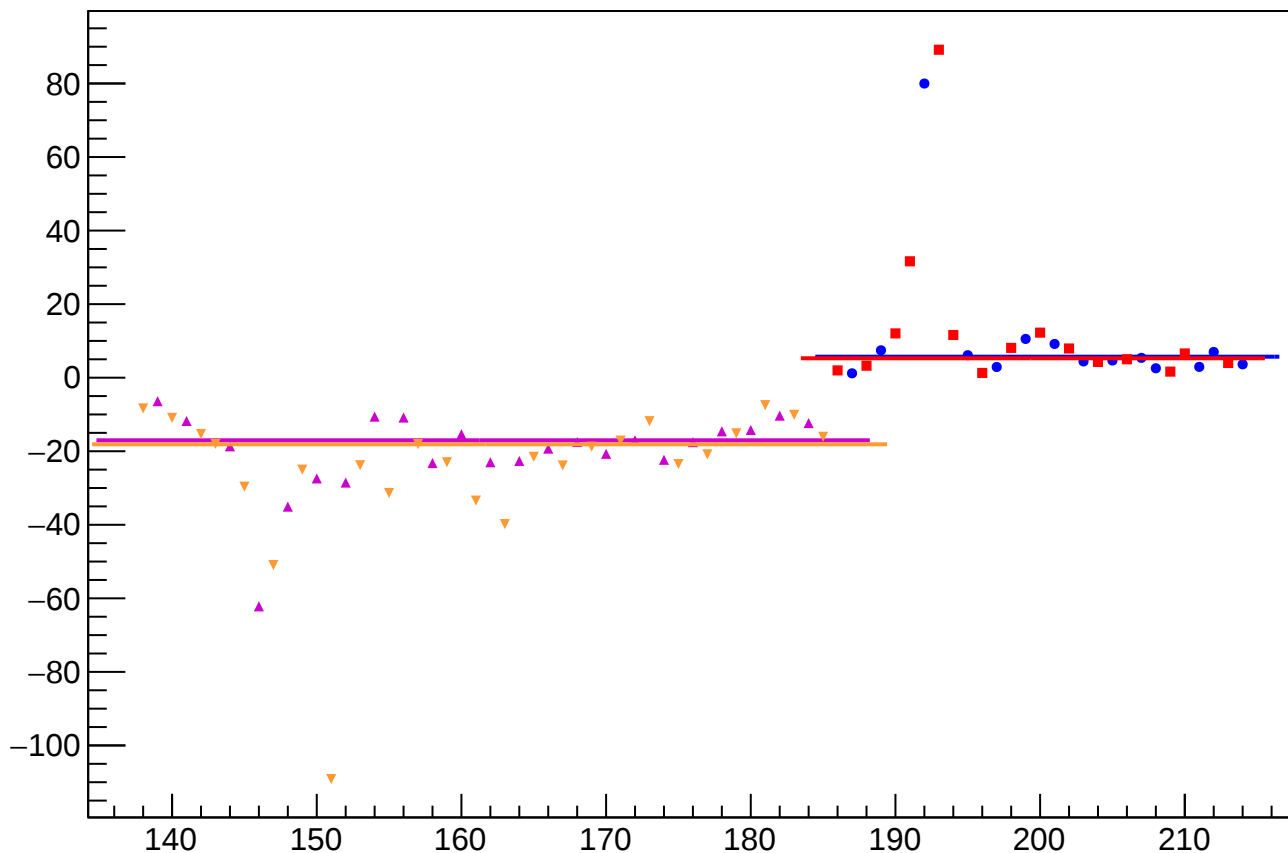
Right: 0.233 $\pm$ 0.002 χ^2 /NDF: 24280.8/64

In: 0.128 $\pm$ 0.001 χ^2 /NDF: 18281.0/53

Out: 0.152 $\pm$ 0.001 χ^2 /NDF: 18771.0/58

All: 0.139 $\pm$ 0.001 χ^2 /NDF: 37224.2/112

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.708 $\pm$ 0.050 χ^2 /NDF: 26668.5/13

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

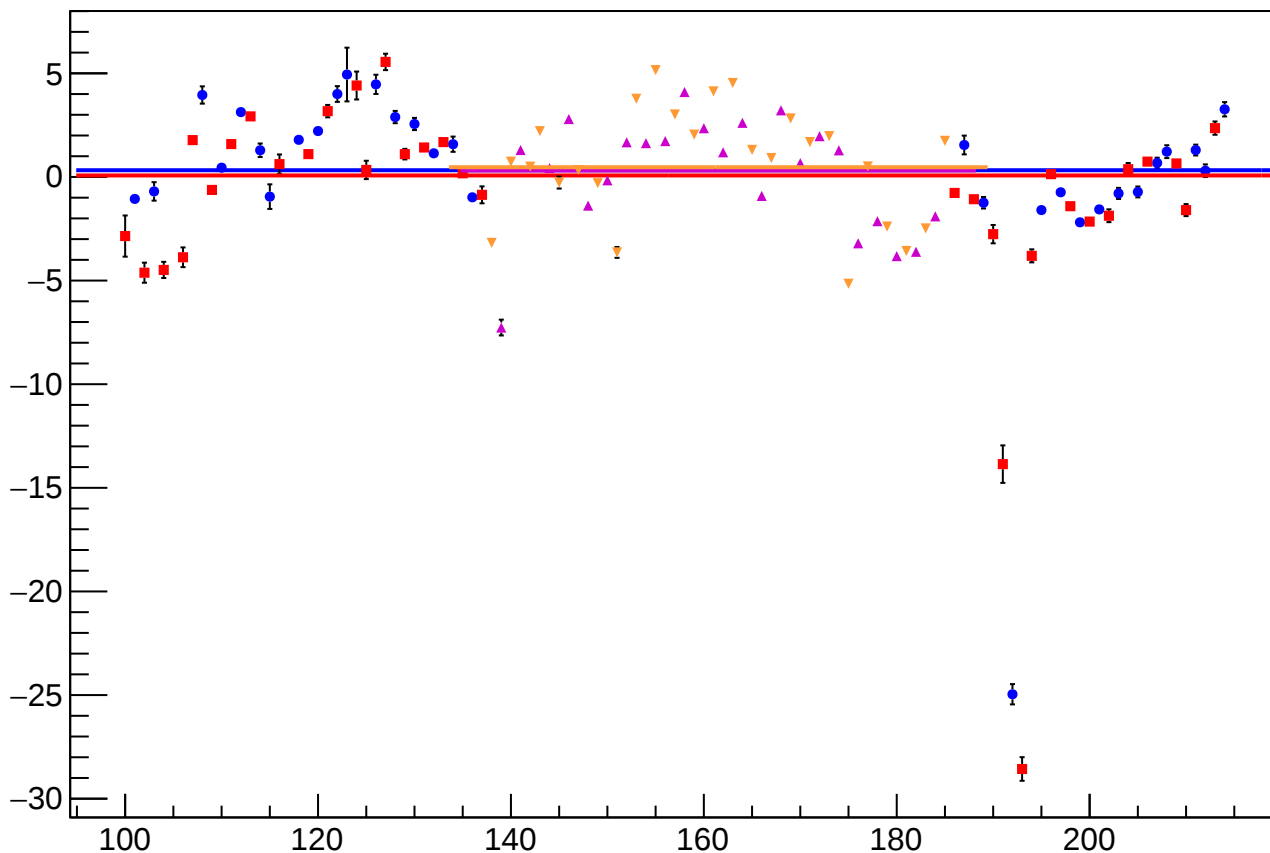
Right: 5.491 $\pm$ 0.035 χ^2 /NDF: 53966.5/28

In: -8.722 $\pm$ 0.030 χ^2 /NDF: 201155.0/36

Out: -9.175 $\pm$ 0.031 χ^2 /NDF: 254623.0/39

All: -8.947 $\pm$ 0.022 χ^2 /NDF: 455888.9/76

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.324 $\pm$ 0.047 χ^2 /NDF: 4047.1/30

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

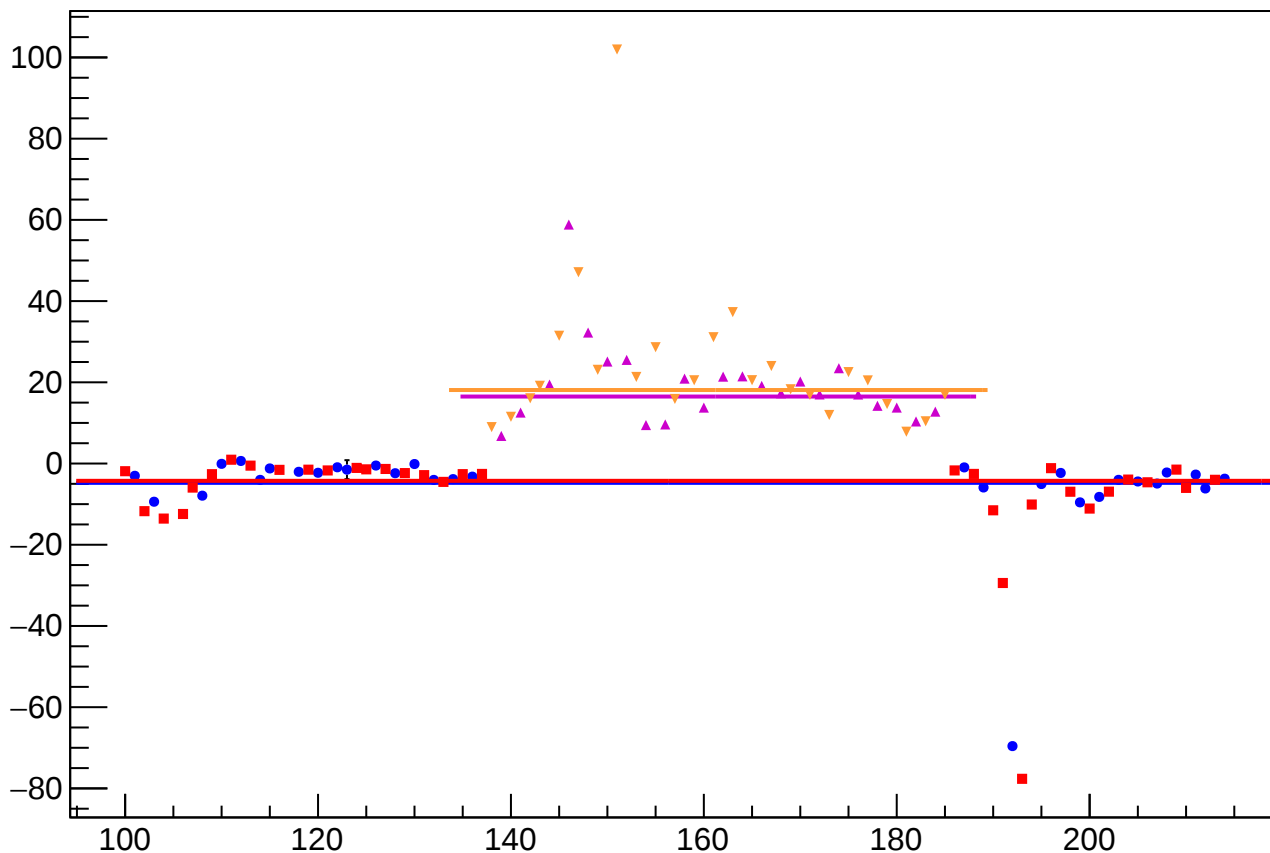
Right: 0.192 $\pm$ 0.032 χ^2 /NDF: 8568.7/64

In: 0.315 $\pm$ 0.026 χ^2 /NDF:10230.2/53

Out: 0.331 $\pm$ 0.026 χ^2 /NDF:11651.9/58

All: 0.323 $\pm$ 0.018 χ^2 /NDF: 21882.3/112

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.752+/-0.044 χ^2/NDF : 27587.9/30

Left Out: 18.101+/-0.039 χ^2/NDF : 77839.7/24

Right Out: -4.258+/-0.041 χ^2/NDF : 28707.1/33

Left In: 16.496+/-0.038 χ^2/NDF : 40867.3/22

Left: 17.270+/-0.027 χ^2/NDF : 119584.1/47

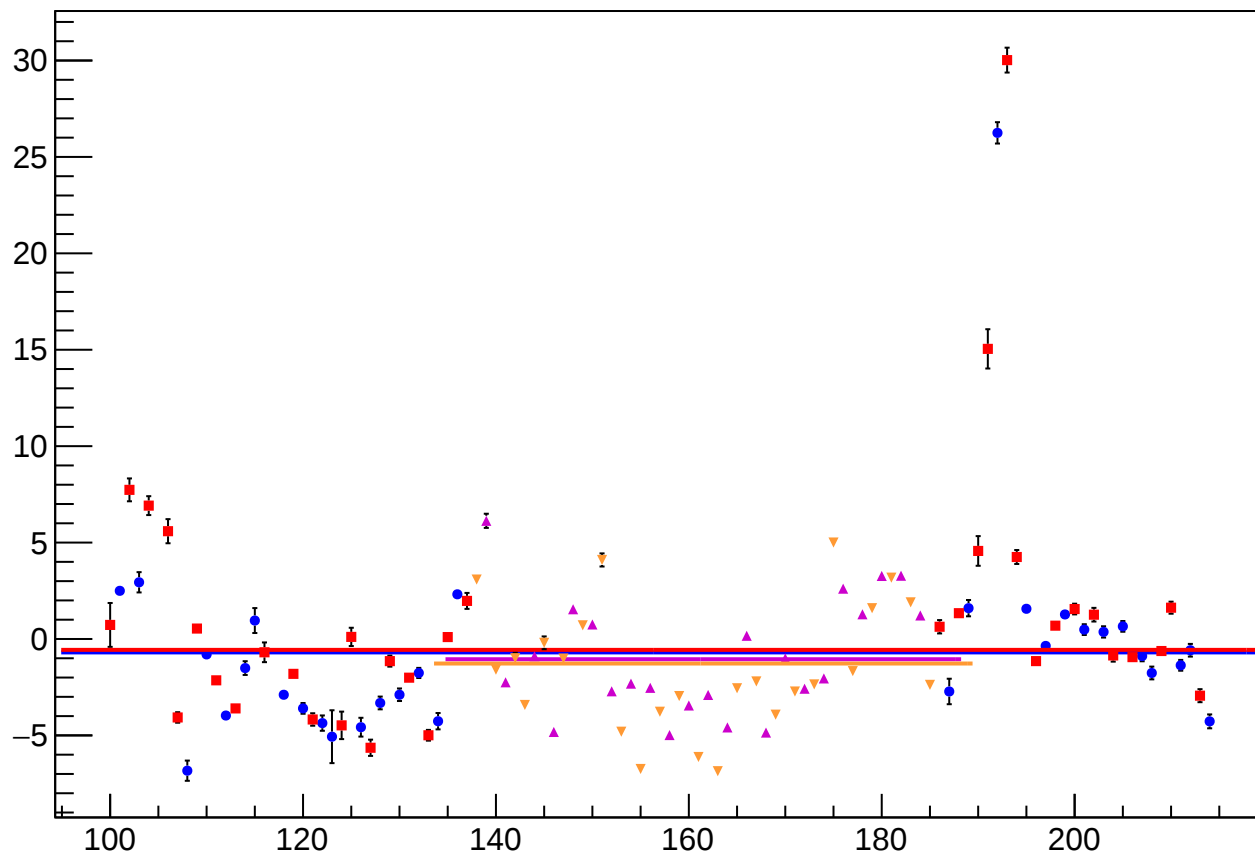
Right: -4.488+/-0.030 χ^2/NDF : 56363.2/64

In: 7.449+/-0.029 χ^2/NDF : 204034.4/53

Out: 7.432+/-0.028 χ^2/NDF : 263482.5/58

All: 7.440+/-0.020 χ^2/NDF : 467517.1/112

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

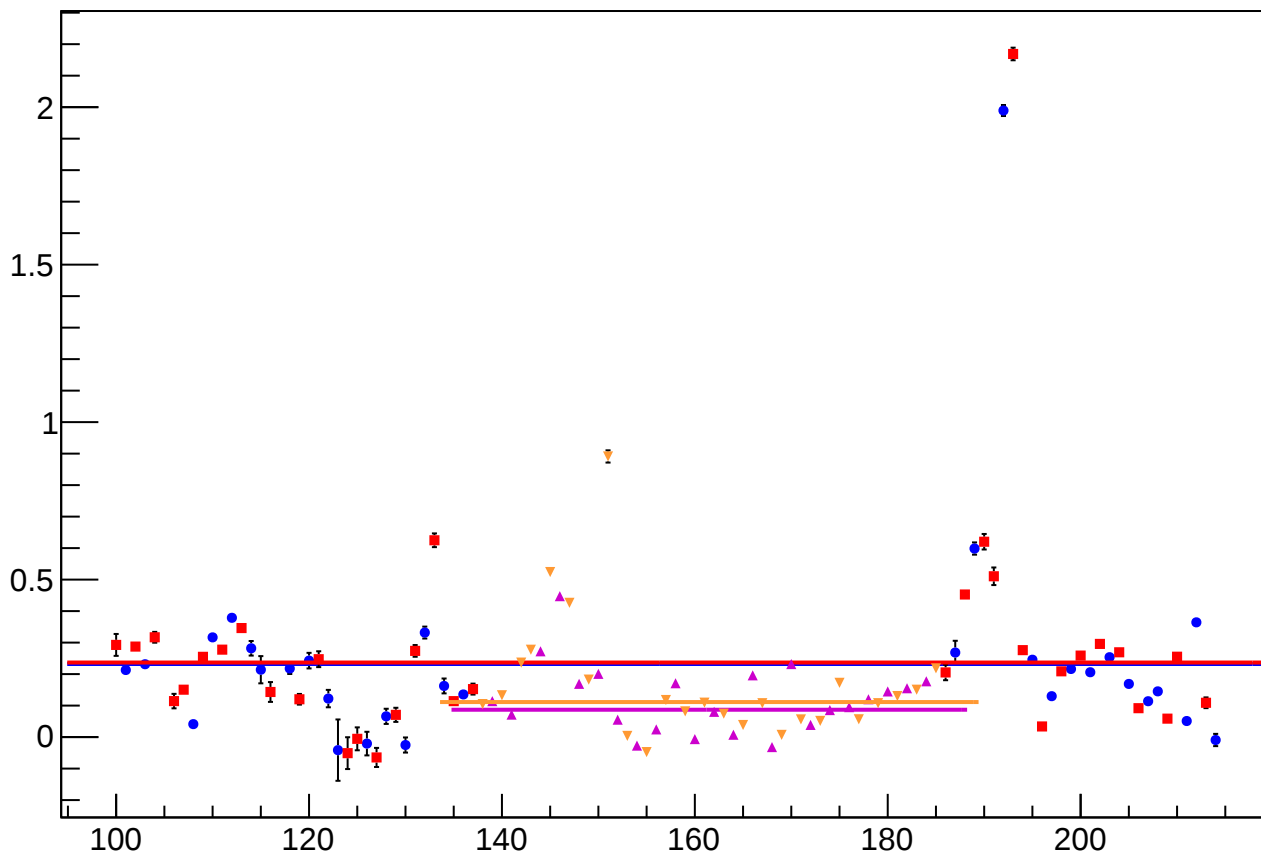


Right In: -0.696 ± 0.053 χ^2/NDF : 4137.8/30
 Left Out: -1.273 ± 0.036 χ^2/NDF : 7951.6/24
 Right Out: -0.565 ± 0.051 χ^2/NDF : 4720.0/33
 Left In: -1.050 ± 0.034 χ^2/NDF : 6673.4/22

Left: -1.156 ± 0.025 χ^2/NDF : 14645.3/47
 Right: -0.627 ± 0.037 χ^2/NDF : 8860.9/64
 In: -0.948 ± 0.029 χ^2/NDF : 10842.5/53
 Out: -1.040 ± 0.029 χ^2/NDF : 12800.5/58

All: -0.993 ± 0.021 χ^2/NDF : 23647.9/112

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.232 $\pm$ 0.002 χ^2 /NDF: 11975.8/30

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.237 $\pm$ 0.002 χ^2 /NDF: 12313.5/33

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3598.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8197.1/47

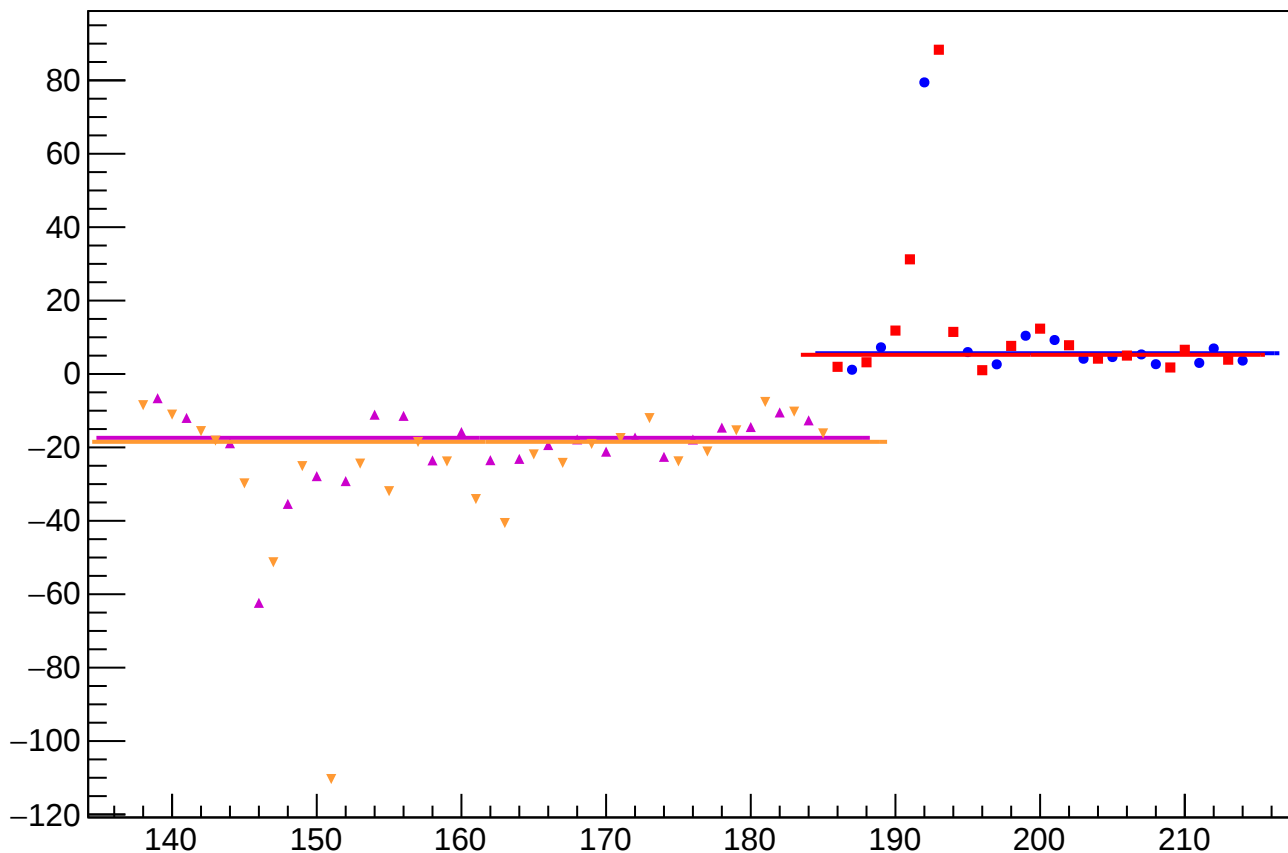
Right: 0.234 $\pm$ 0.002 χ^2 /NDF: 24291.3/64

In: 0.128 $\pm$ 0.001 χ^2 /NDF:18257.2/53

Out: 0.152 $\pm$ 0.001 χ^2 /NDF:18778.0/58

All: 0.140 $\pm$ 0.001 χ^2 /NDF: 37200.9/112

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.656 ± 0.050 χ^2/NDF : 26184.1/13

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

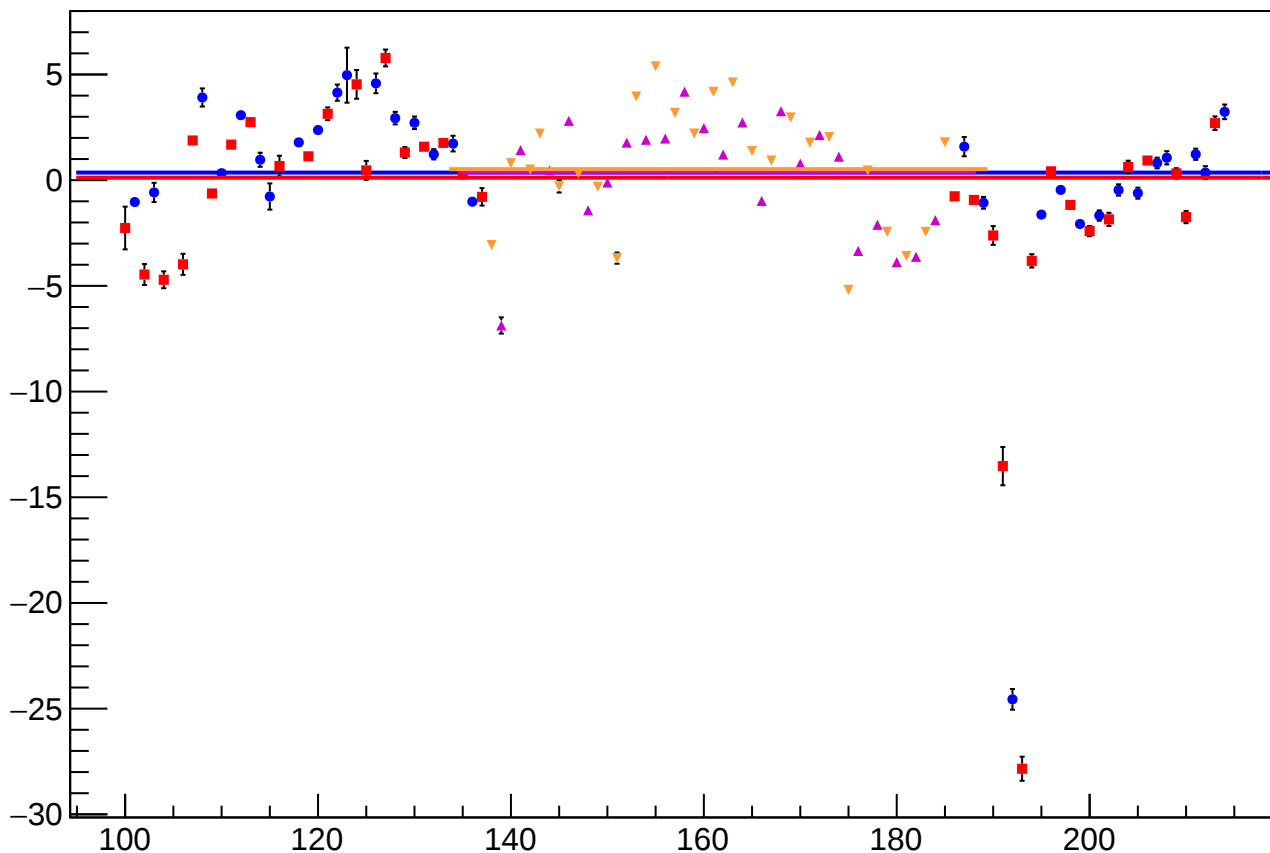
Right: 5.440 ± 0.035 χ^2/NDF : 52900.9/28

In: -8.781 ± 0.031 χ^2/NDF : 200137.2/36

Out: -9.212 ± 0.031 χ^2/NDF : 253969.2/39

All: -8.996 ± 0.022 χ^2/NDF : 454203.6/76

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.360 $\pm$ 0.047 χ^2 /NDF: 3906.1/30

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF: 7055.1/24

Right Out: 0.118 $\pm$ 0.045 χ^2 /NDF: 4366.4/33

Left In: 0.371 $\pm$ 0.031 χ^2 /NDF: 6217.4/22

Left: 0.443 $\pm$ 0.023 χ^2 /NDF: 13283.4/47

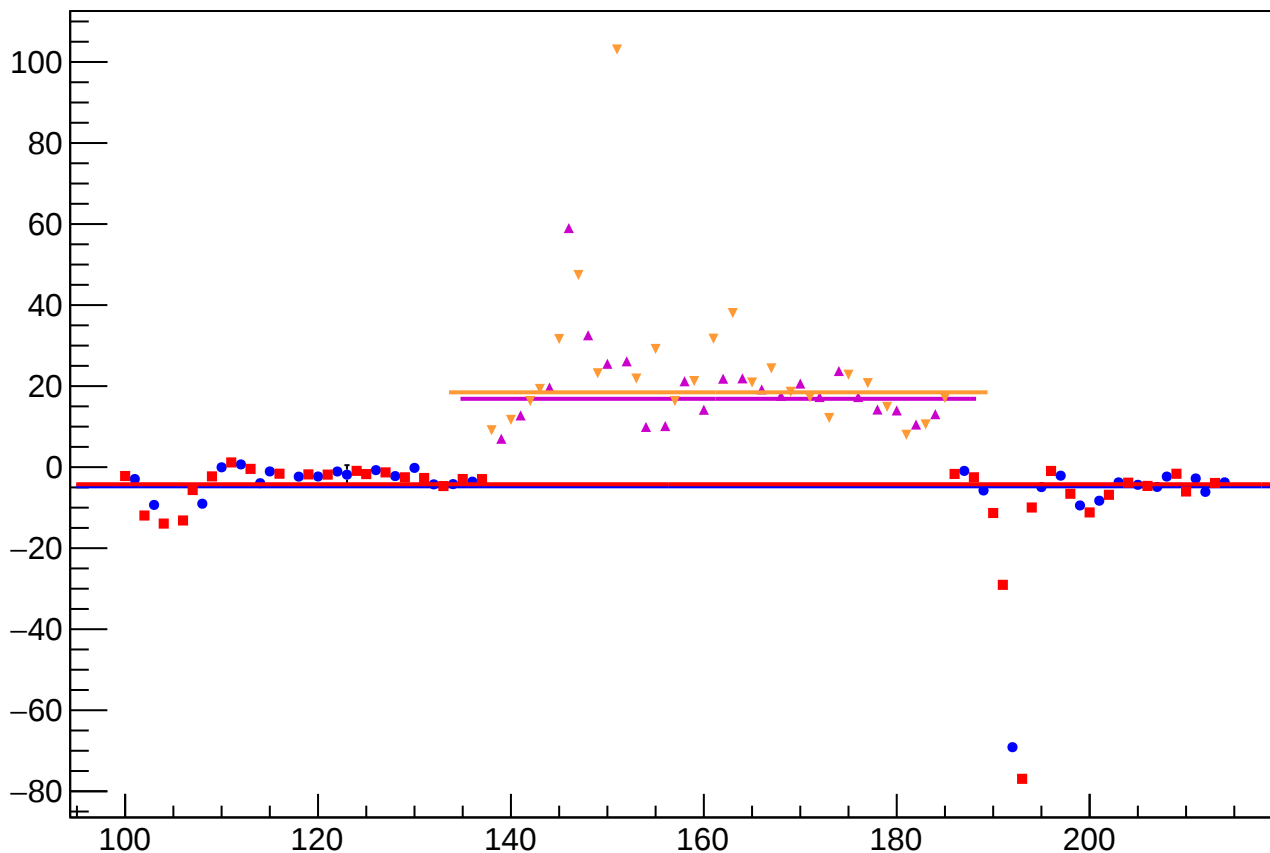
Right: 0.233 $\pm$ 0.032 χ^2 /NDF: 8286.3/64

In: 0.368 $\pm$ 0.026 χ^2 /NDF: 10123.5/53

Out: 0.380 $\pm$ 0.027 χ^2 /NDF: 11474.2/58

All: 0.374 $\pm$ 0.019 χ^2 /NDF: 21597.8/112

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.733+/-0.044 χ^2/NDF : 27075.5/30

Left Out: 18.467+/-0.040 χ^2/NDF : 77226.7/24

Right Out: -4.221+/-0.041 χ^2/NDF : 28151.9/33

Left In: 16.867+/-0.039 χ^2/NDF : 39779.0/22

Left: 17.640+/-0.028 χ^2/NDF : 117837.8/47

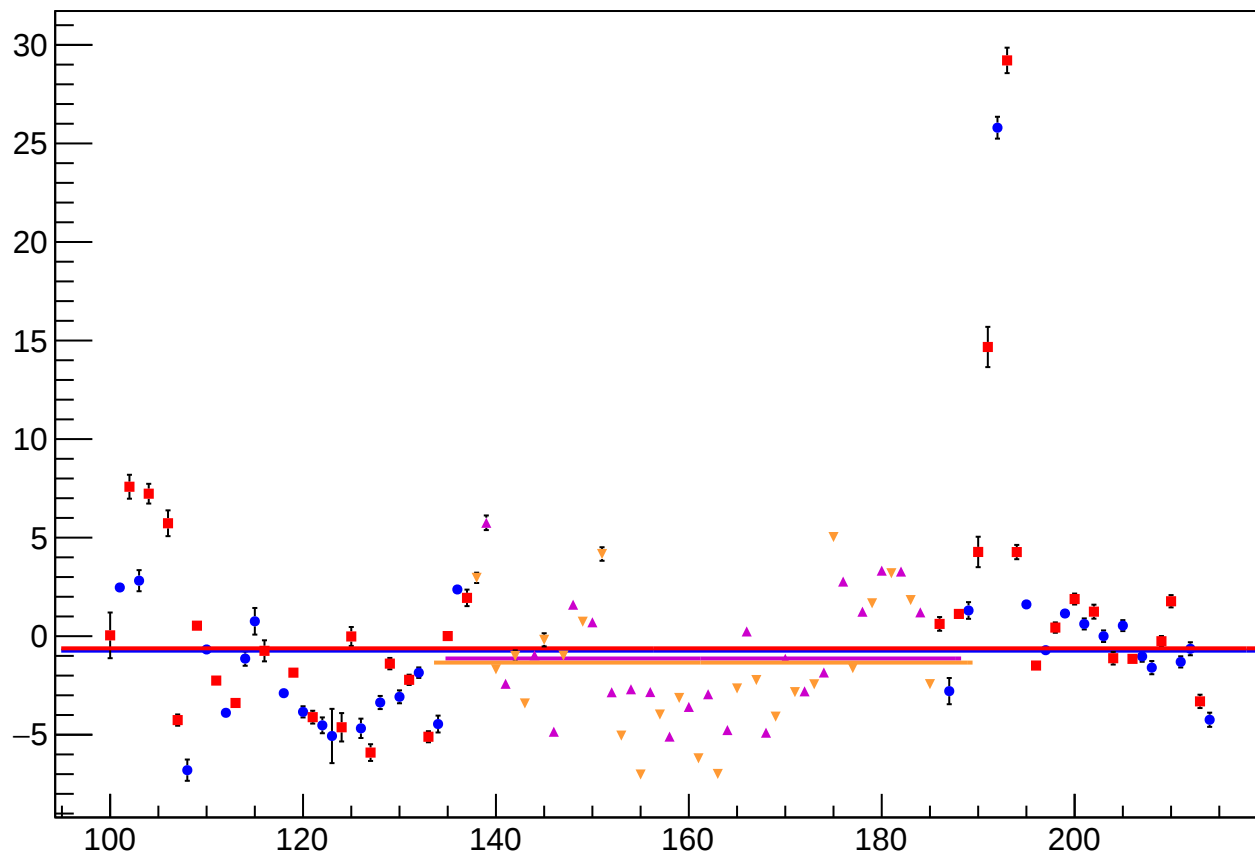
Right: -4.459+/-0.030 χ^2/NDF : 55299.6/64

In: 7.496+/-0.029 χ^2/NDF : 202938.9/53

Out: 7.463+/-0.029 χ^2/NDF : 262326.9/58

All: 7.479+/-0.020 χ^2/NDF : 465266.4/112

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.735 ± 0.054 $\chi^2/\text{NDF}: 4012.6/30$

Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$

Right Out: -0.617 ± 0.052 $\chi^2/\text{NDF}: 4592.2/33$

Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$

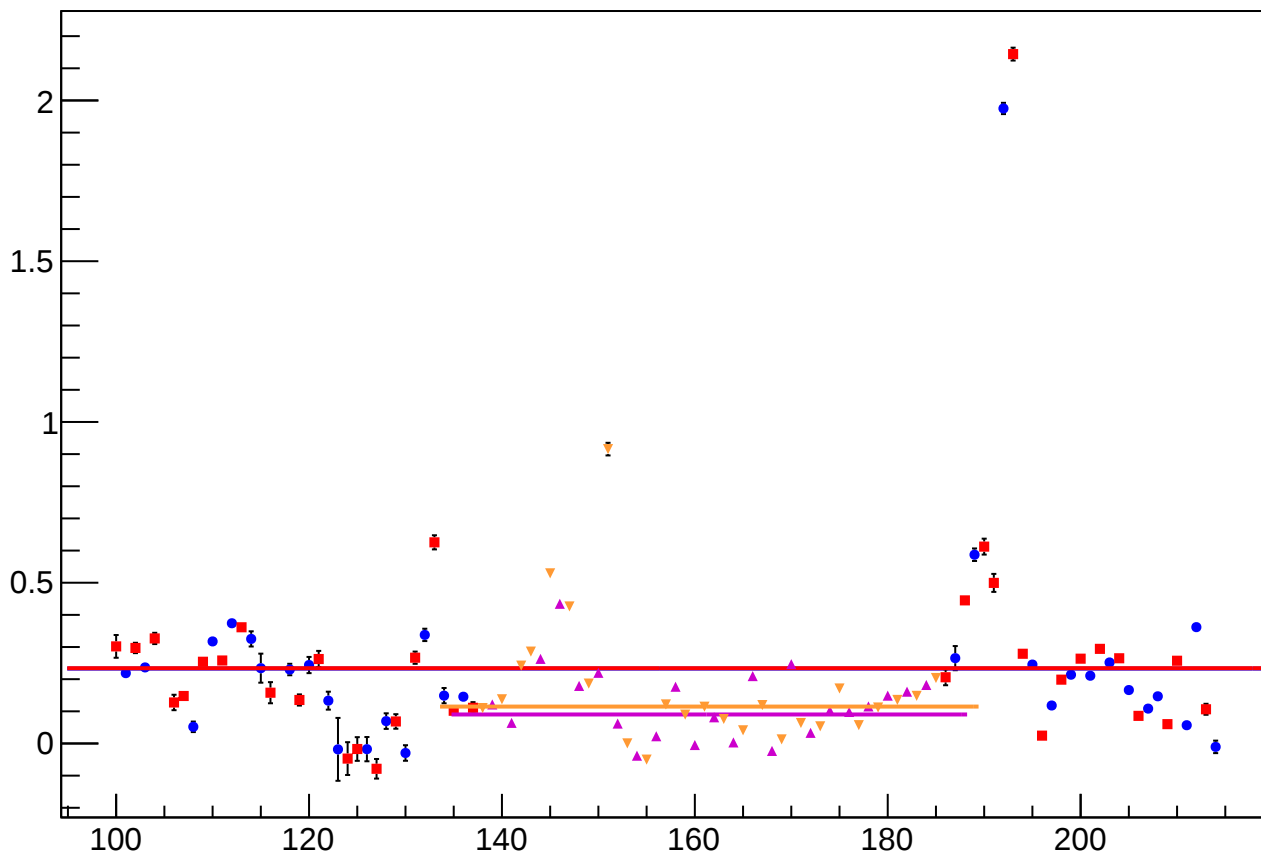
Right: -0.673 ± 0.037 $\chi^2/\text{NDF}: 8607.2/64$

In: -1.015 ± 0.029 $\chi^2/\text{NDF}: 10759.2/53$

Out: -1.099 ± 0.030 $\chi^2/\text{NDF}: 12629.6/58$

All: -1.056 ± 0.021 $\chi^2/\text{NDF}: 23392.9/112$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.233+/-0.002 χ^2/NDF : 11716.6/30

Left Out: 0.115+/-0.002 χ^2/NDF :4431.9/24

Right Out: 0.234+/-0.002 χ^2/NDF : 12160.5/33

Left In: 0.090+/-0.002 χ^2/NDF :3676.5/22

Left: 0.102+/-0.001 χ^2/NDF : 8228.2/47

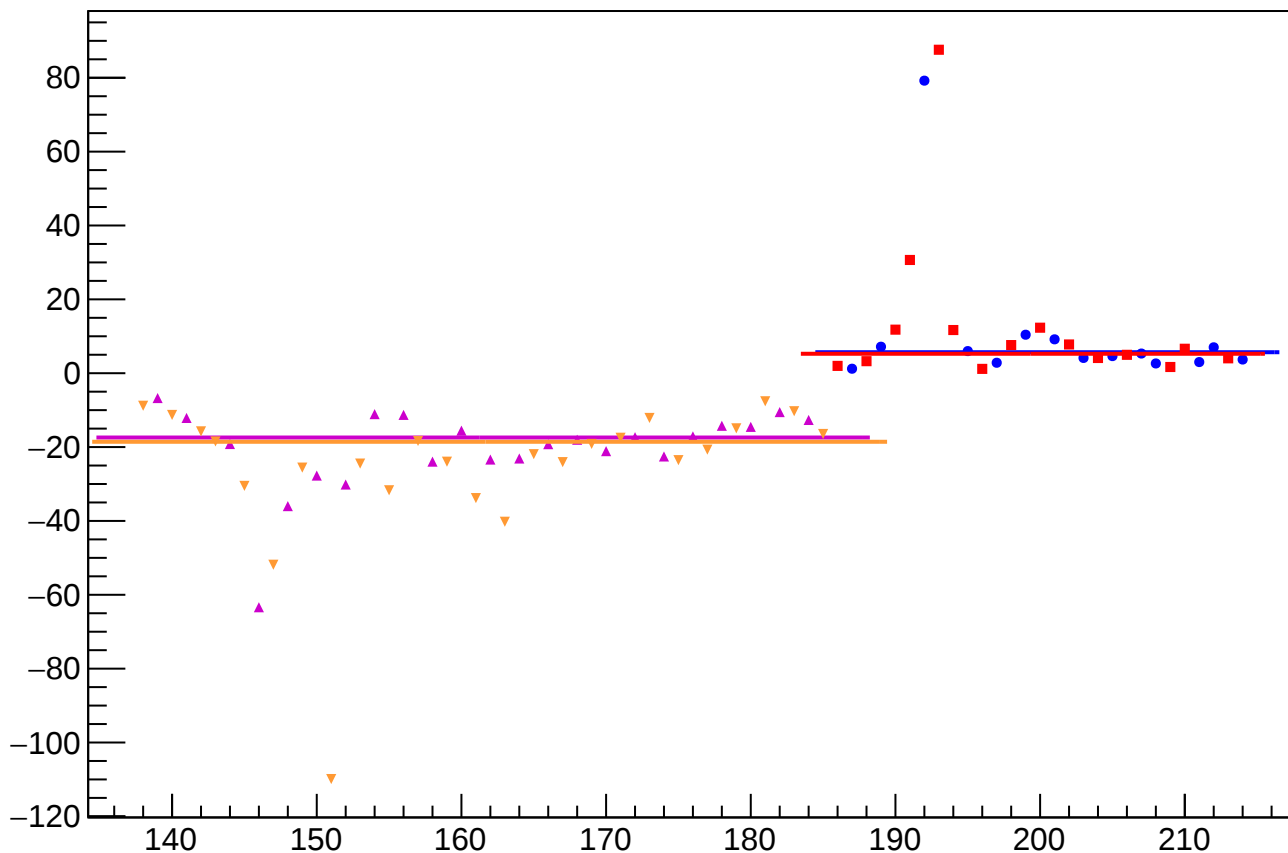
Right: 0.234+/-0.002 χ^2/NDF : 23877.2/64

In: 0.132+/-0.001 χ^2/NDF :17912.8/53

Out: 0.154+/-0.001 χ^2/NDF :18340.6/58

All: 0.143+/-0.001 χ^2/NDF : 36394.1/112

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.684 $\pm$ 0.051 χ^2 /NDF: 25690.1/13

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

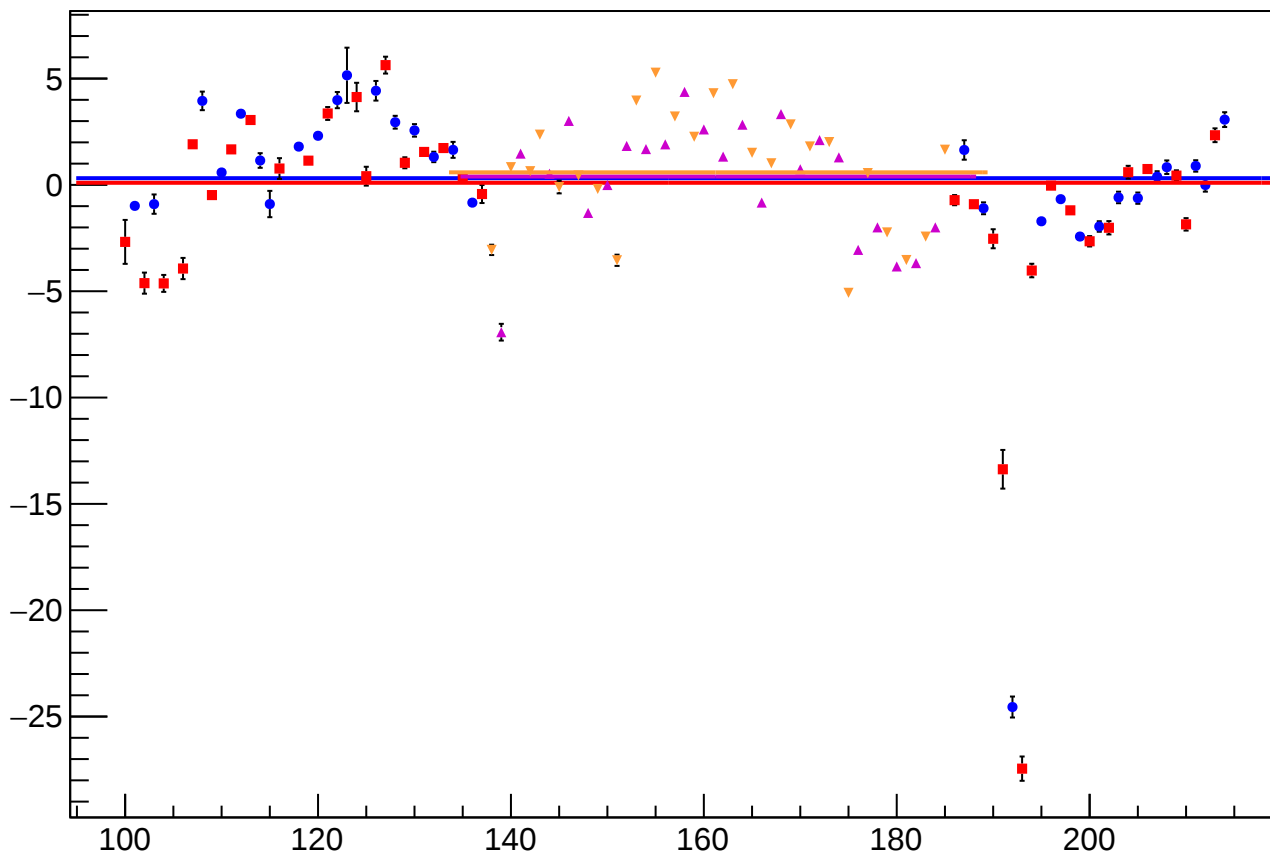
Right: 5.471 $\pm$ 0.036 χ^2 /NDF: 51772.0/28

In: -8.815 $\pm$ 0.031 χ^2 /NDF: 197778.6/36

Out: -9.282 $\pm$ 0.031 χ^2 /NDF: 250055.3/39

All: -9.047 $\pm$ 0.022 χ^2 /NDF: 447945.6/76

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.315 $\pm$ 0.048 χ^2 /NDF: 3930.9/30

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

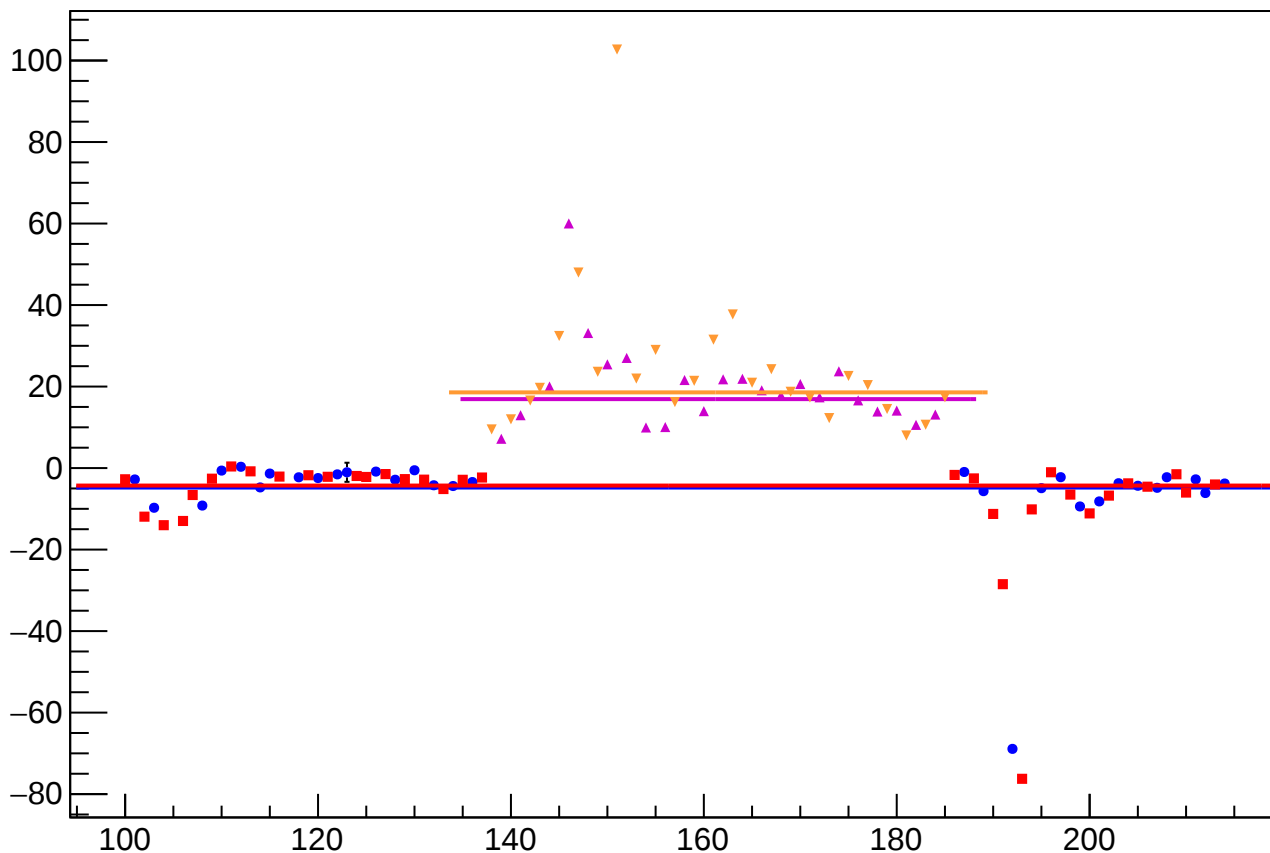
Right: 0.202 $\pm$ 0.033 χ^2 /NDF: 8248.0/64

In: 0.370 $\pm$ 0.026 χ^2 /NDF: 9992.5/53

Out: 0.419 $\pm$ 0.027 χ^2 /NDF: 11179.0/58

All: 0.394 $\pm$ 0.019 χ^2 /NDF: 21173.3/112

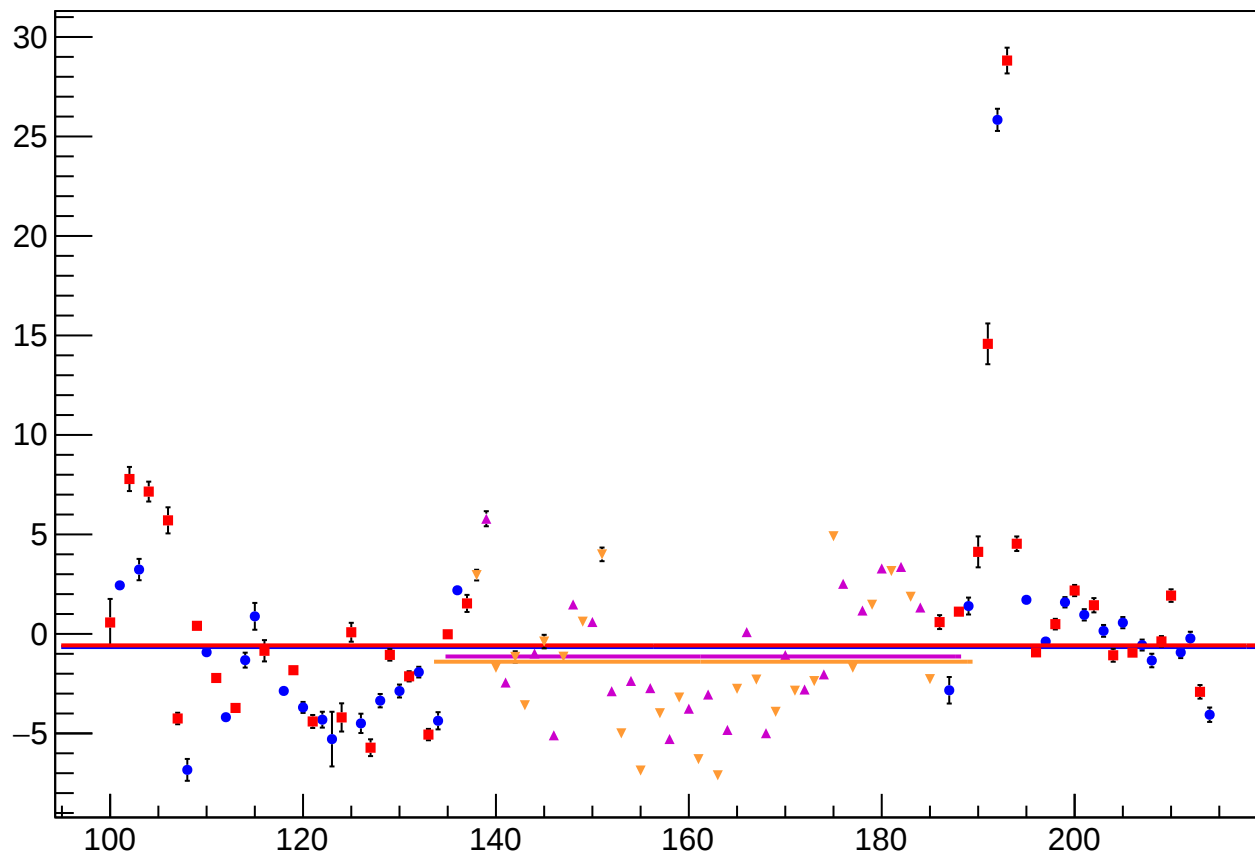
reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.775 $\pm$ 0.045 χ^2 /NDF: 26412.5/30
 Left Out: 18.573 $\pm$ 0.040 χ^2 /NDF: 76029.9/24
 Right Out: -4.290 $\pm$ 0.042 χ^2 /NDF: 27292.3/33
 Left In: 16.919 $\pm$ 0.039 χ^2 /NDF: 40154.5/22

Left: 17.718 $\pm$ 0.028 χ^2 /NDF: 117057.3/47
 Right: -4.516 $\pm$ 0.030 χ^2 /NDF: 53767.6/64
 In: 7.544 $\pm$ 0.029 χ^2 /NDF: 200914.9/53
 Out: 7.538 $\pm$ 0.029 χ^2 /NDF: 258971.7/58
 All: 7.541 $\pm$ 0.021 χ^2 /NDF: 459886.6/112

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.660 ± 0.055 χ^2/NDF : 3996.4/30

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

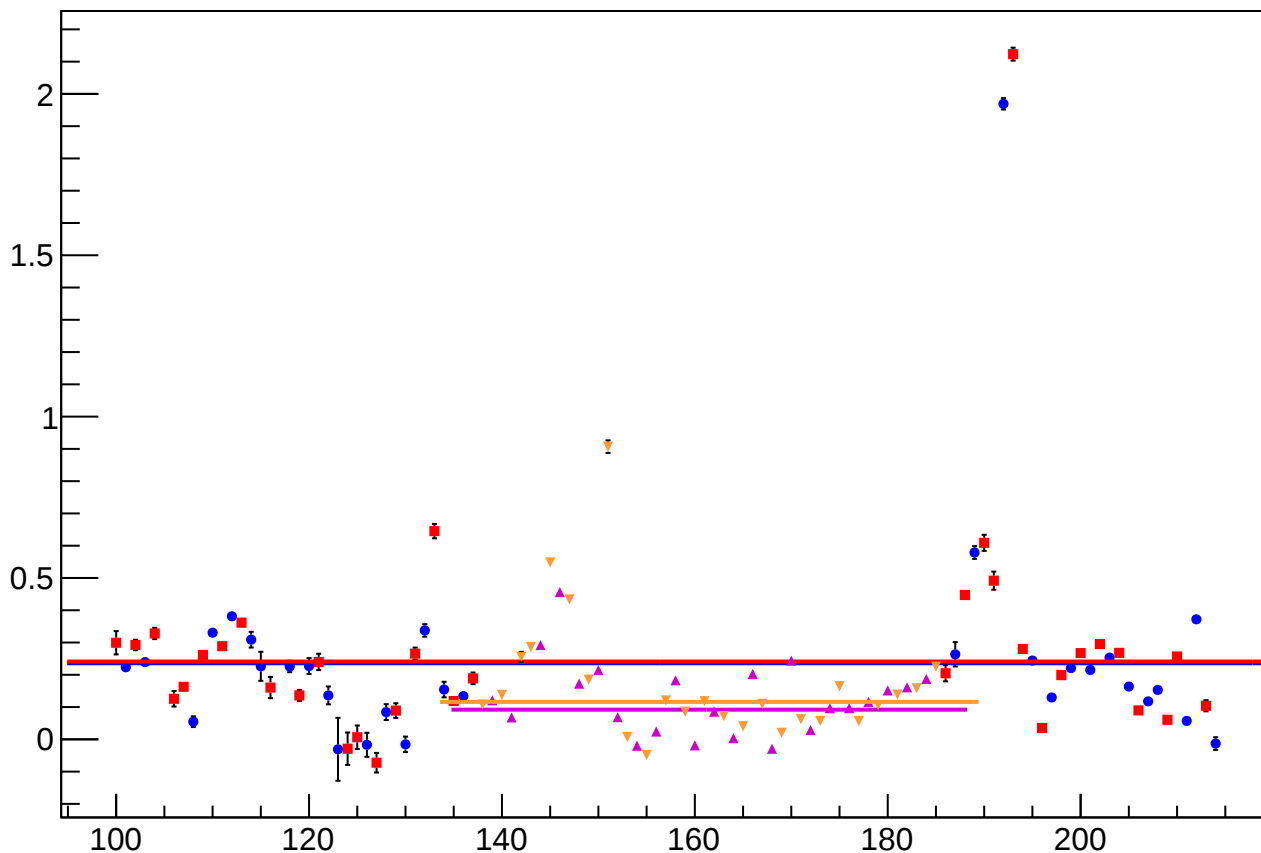
Right: -0.616 ± 0.038 χ^2/NDF : 8515.2/64

In: -0.995 ± 0.030 χ^2/NDF : 10647.4/53

Out: -1.125 ± 0.030 χ^2/NDF : 12332.1/58

All: -1.059 ± 0.021 χ^2/NDF : 22989.0/112

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.236 $\pm$ 0.002 χ^2 /NDF: 11461.7/30

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

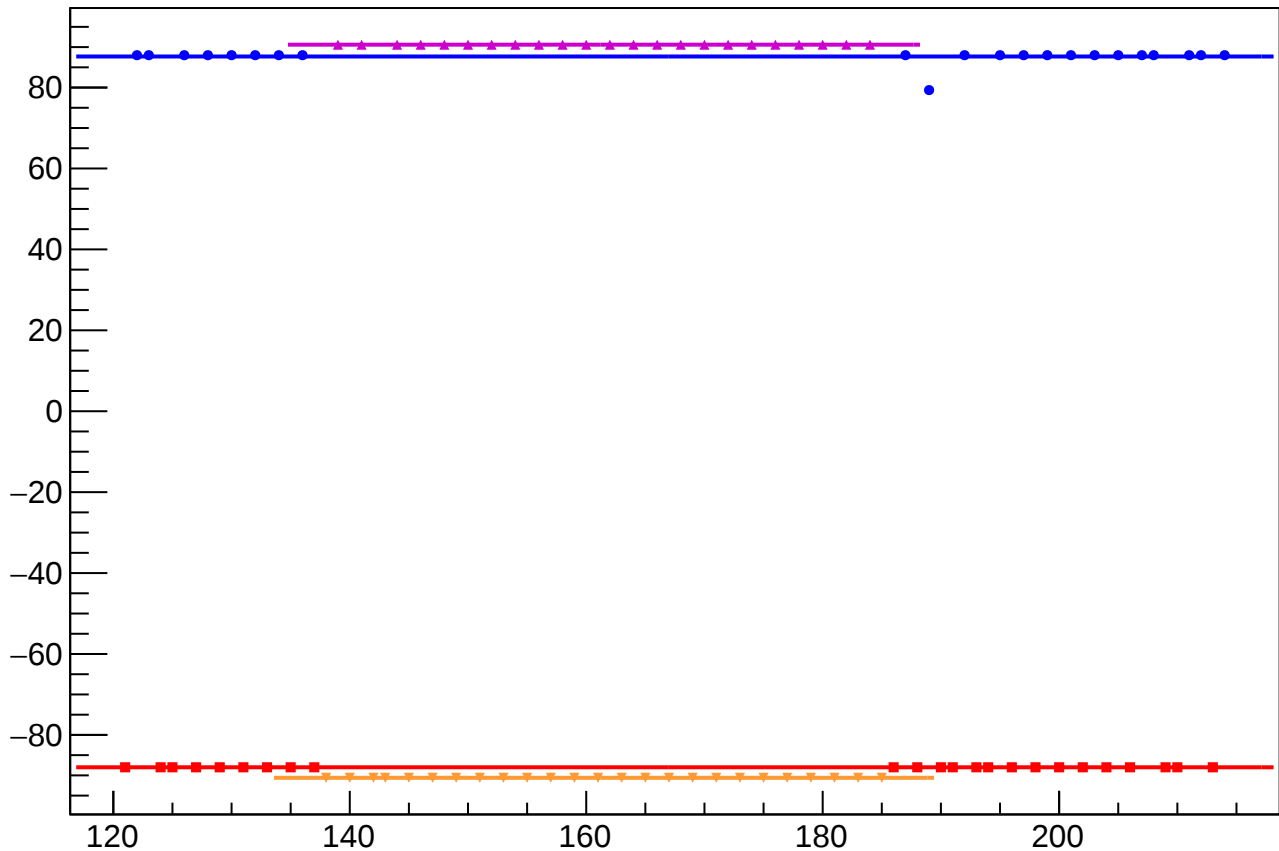
Right: 0.238 $\pm$ 0.002 χ^2 /NDF: 23119.3/64

In: 0.134 $\pm$ 0.001 χ^2 /NDF:17592.8/53

Out: 0.157 $\pm$ 0.001 χ^2 /NDF:17989.8/58

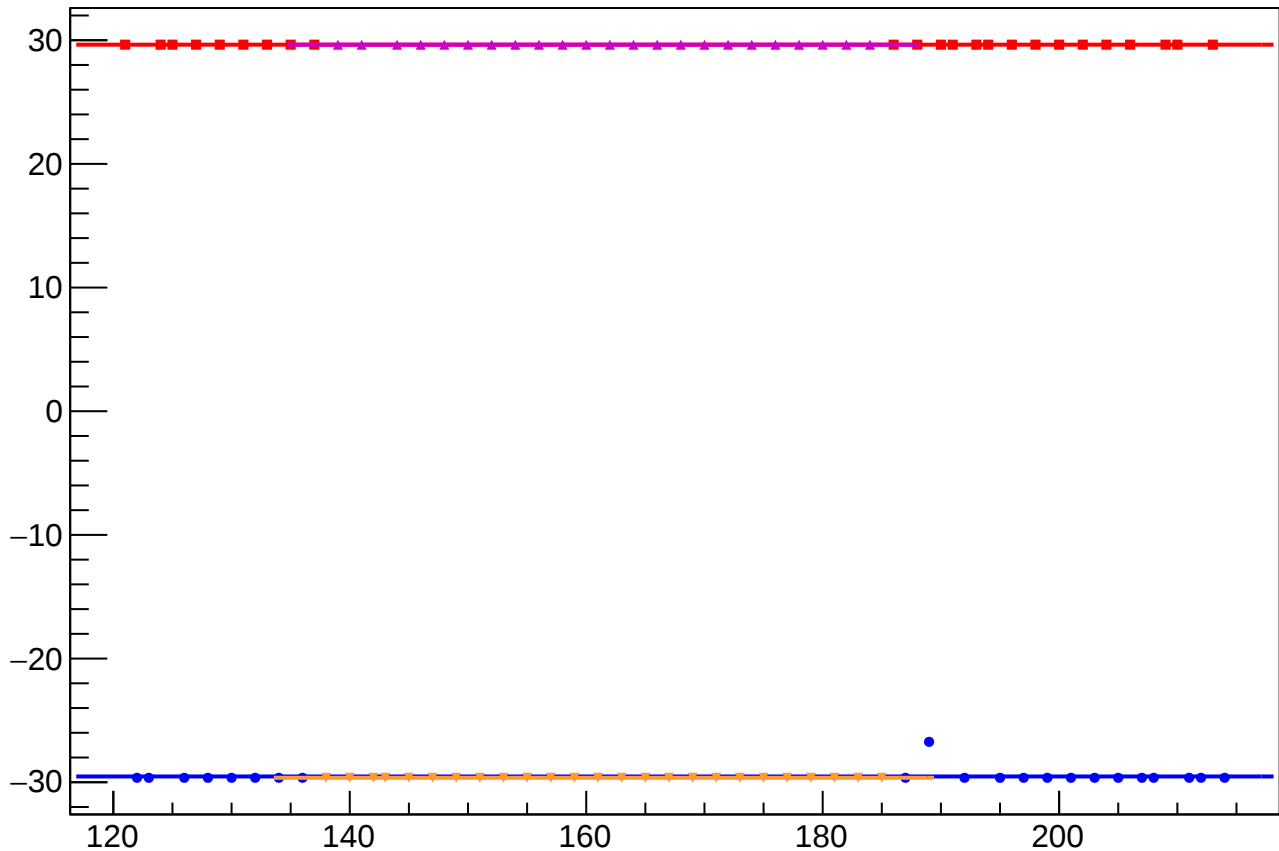
All: 0.145 $\pm$ 0.001 χ^2 /NDF: 35731.5/112

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.680+/-0.000	χ^2/NDF : 3654822966545791972670707456802816.0/21	Left: -2.410+/-0.000	χ^2/NDF : 30521213250005045
Left Out: -90.599+/-0.000	χ^2/NDF : 6053403.0/24	Right: -0.161+/-0.000	χ^2/NDF : 2114518331987966
Right Out: -88.001+/-0.000	χ^2/NDF : 944310.7/23	In: 89.342+/-0.000	χ^2/NDF : 103040460928168258
Left In: 90.599+/-0.000	χ^2/NDF : 5932436.0/22	Out: -89.514+/-0.000	χ^2/NDF : 5387122730449320
		All: -1.456+/-0.000	χ^2/NDF : 5167438438659

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.533+/-0.000

χ^2/NDF : 414639874273941674873077599567872.0/21

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641+/-0.000

χ^2/NDF : 1572042.0/23

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

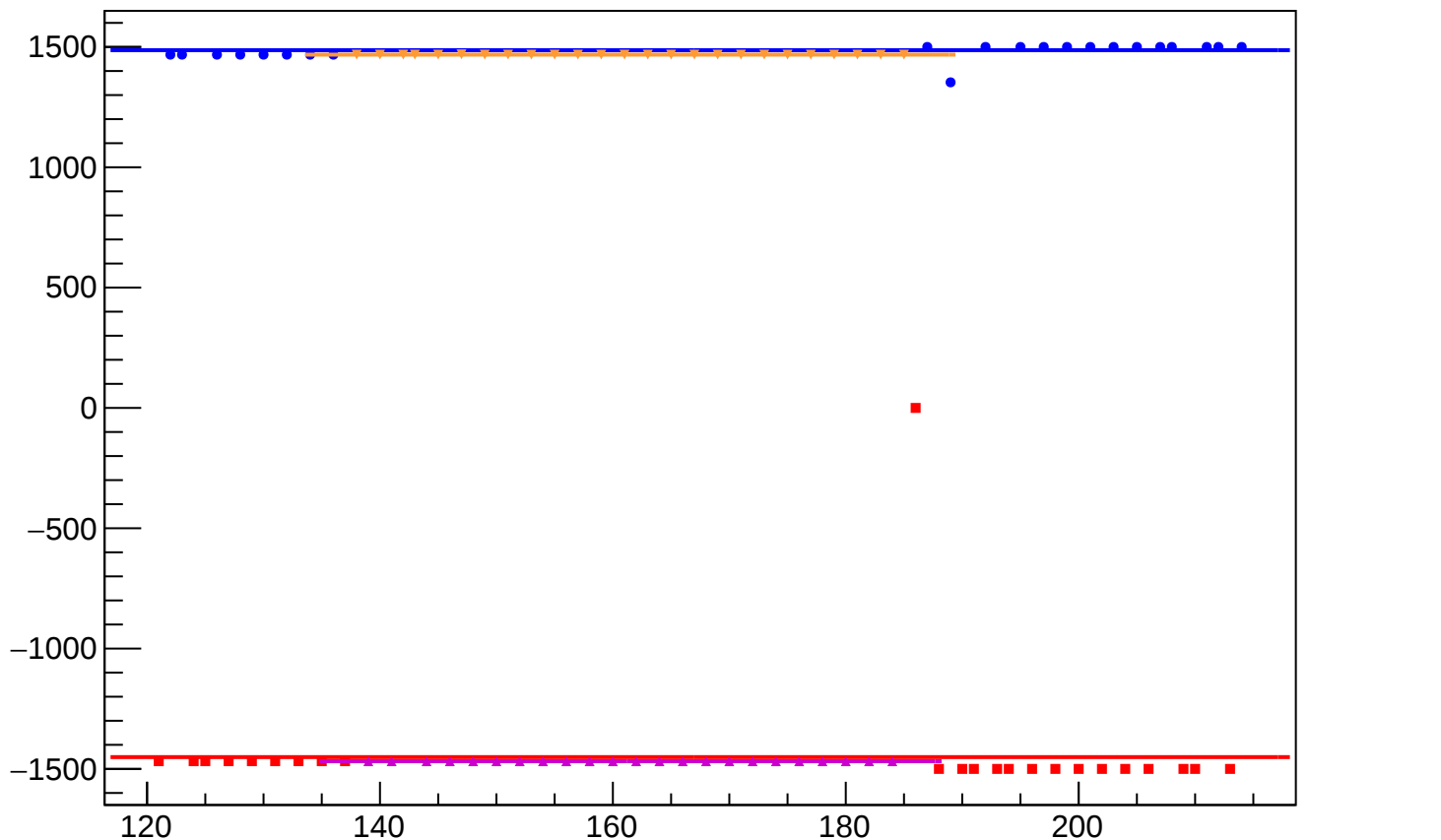
Right: 0.054+/-0.000 χ^2/NDF : 23989222551977668

In: 4.156+/-0.000 χ^2/NDF : 2731440915479959658

Out: -4.880+/-0.000 χ^2/NDF : 28036066743177126

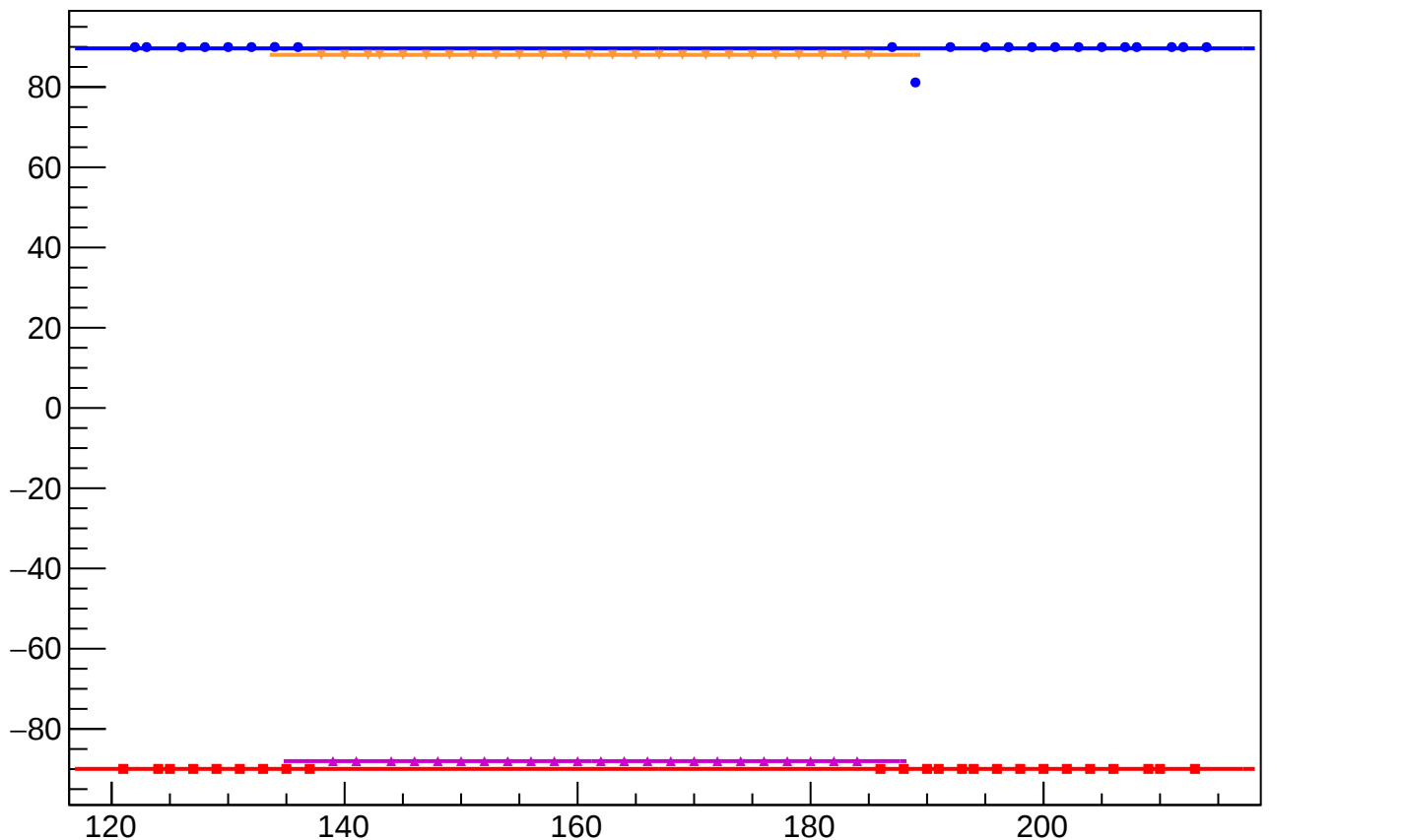
All: -0.431+/-0.000 χ^2/NDF : 5666892485293

psub_pl_pos_mean vs Slug, Sign Corrected



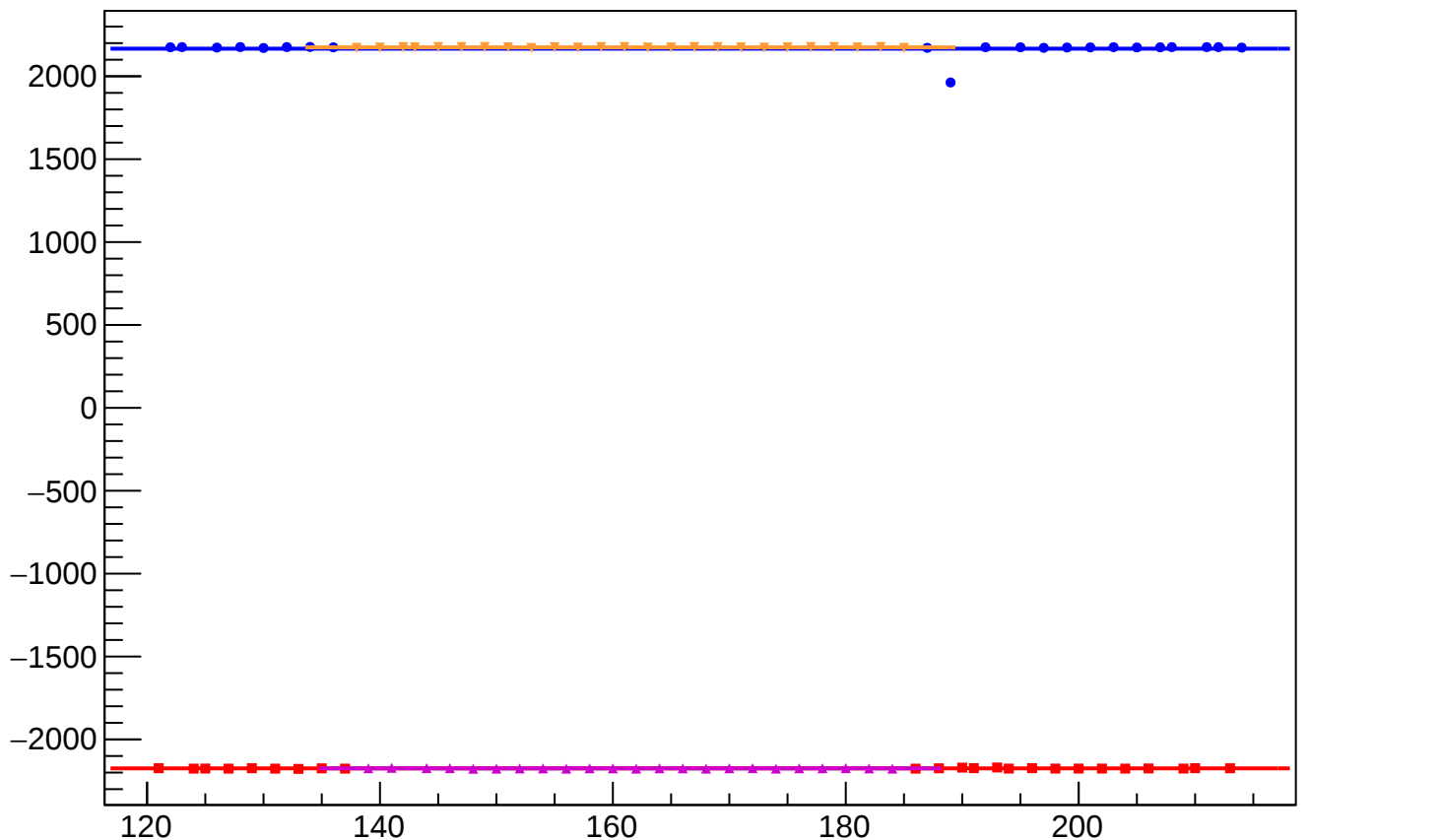
Right In: 1486.603 $\pm$ 0.000 χ^2 /NDF: 1204633032959548988199493233880858624.0/21
 Left Out: 1468.048 $\pm$ 0.000 χ^2 /NDF: 127960980922965975039069502046208.0/24
 Right Out: -1450.986 $\pm$ 0.000 χ^2 /NDF: 82532678826421470698971593650609324032.0/23
 Left In: -1467.994 $\pm$ 0.000 χ^2 /NDF: 145848702340275035310993178624.0/22
 All: 30.062 $\pm$ 0.000 χ^2 /NDF: 1400900462468

Phi_FG_mean vs Slug, Sign Corrected



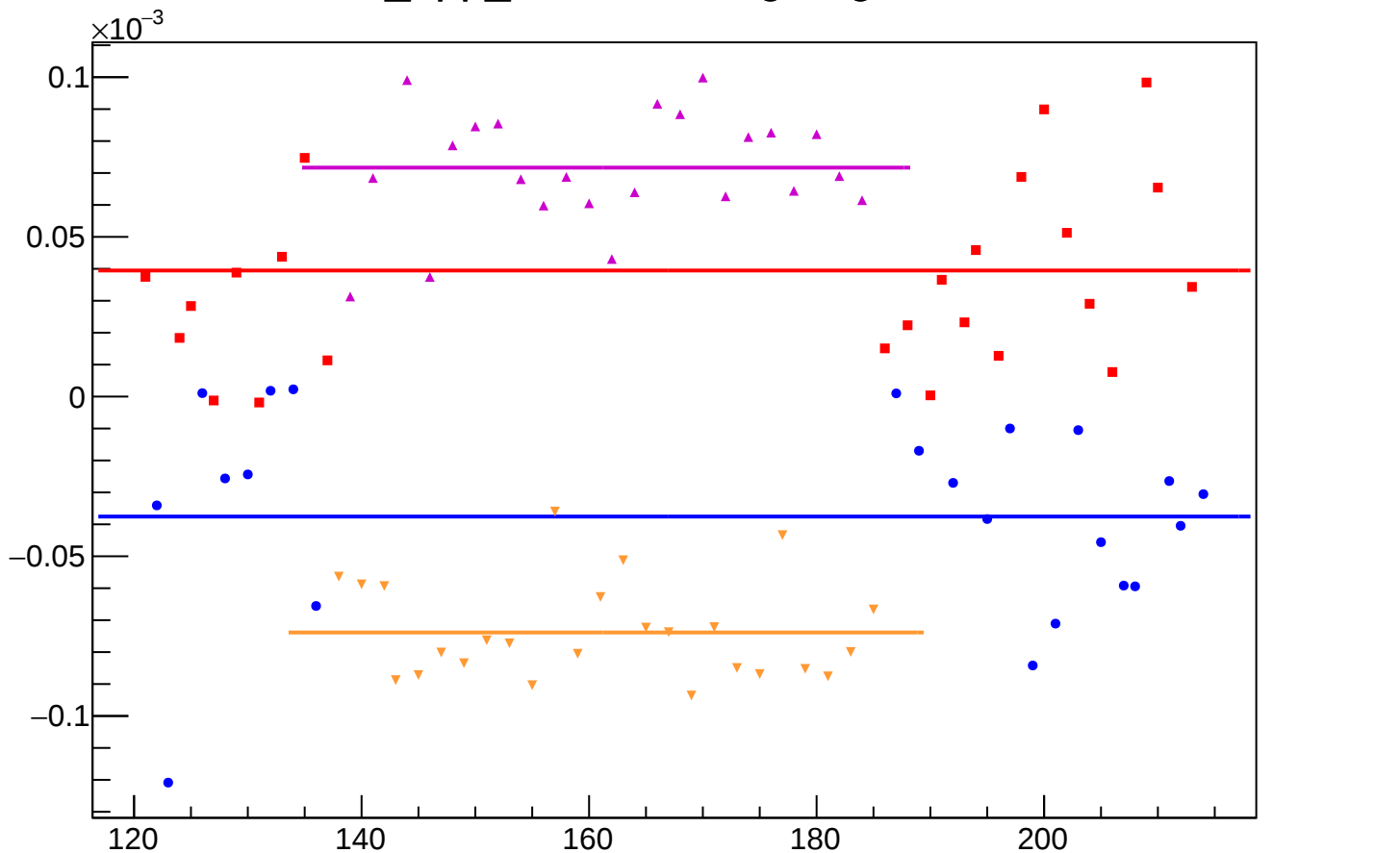
Right In: 89.631+/-0.000	χ^2/NDF : 3819799354044383293849966456340480.0/21	Left: 2.342+/-0.000	χ^2/NDF : 288085769312401978
Left Out: 88.021+/-0.000	χ^2/NDF : 5326388.8/24	Right: -0.164+/-0.000	χ^2/NDF : 2209702128620219
Right Out: -89.959+/-0.000	χ^2/NDF : 4131864.1/23	In: -11.509+/-0.000	χ^2/NDF : 24619762354160840
Left In: -88.021+/-0.000	χ^2/NDF : 6084099.2/22	Out: 13.681+/-0.000	χ^2/NDF : 25271003945938984
		All: 1.279+/-0.000	χ^2/NDF : 50915506319038

HALLA_p_mean vs Slug, Sign Corrected



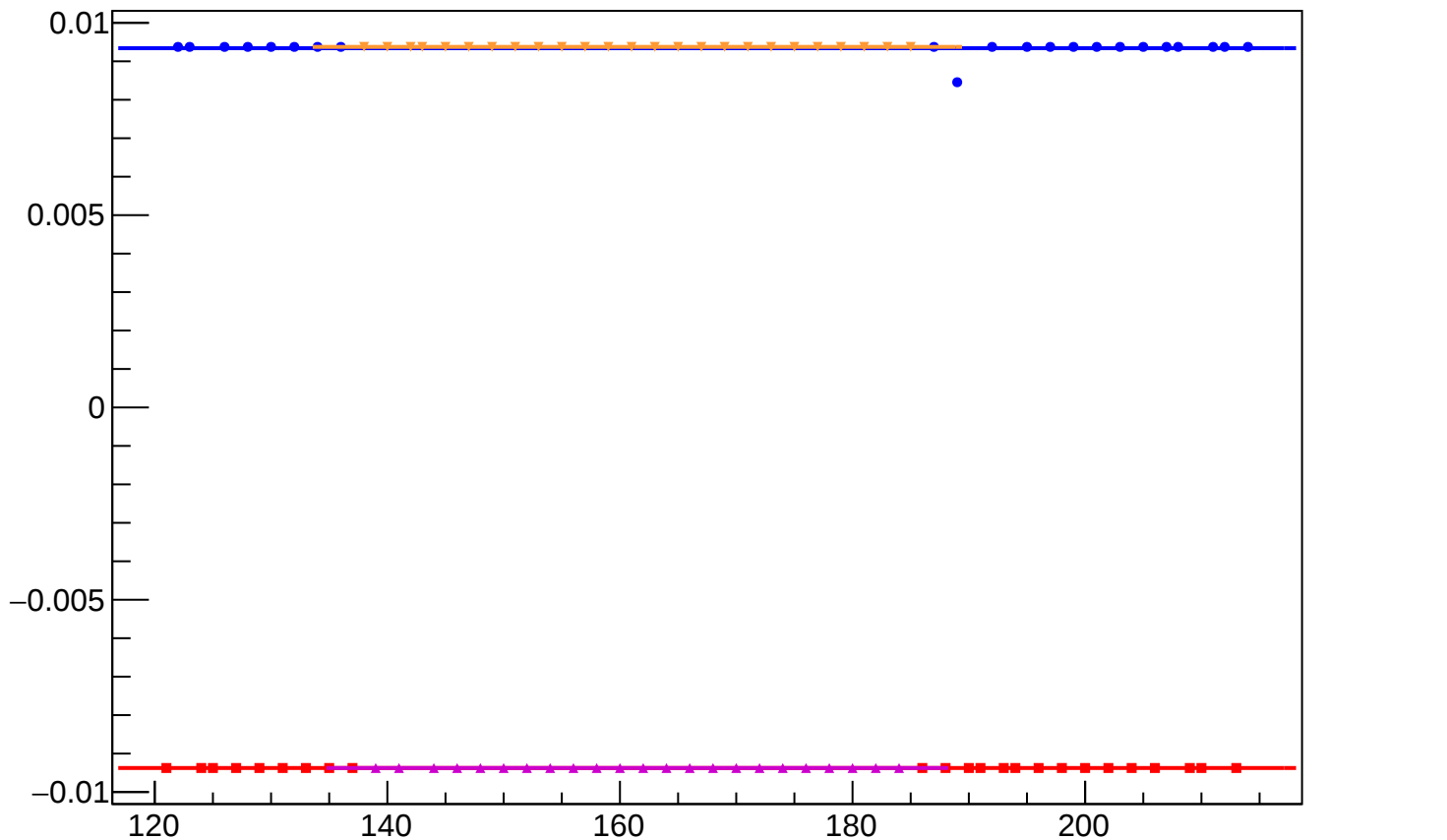
Right In: 2166.613+/-0.000	χ^2/NDF : 2207335815442316854406097483511889920.0/21	Left: 57.898+/-0.000	χ^2/NDF : 17583418754650851
Left Out: 2174.622+/-0.000	χ^2/NDF : 5110578135476093110874911595823104.0/24	Right: -4.020+/-0.000	χ^2/NDF : 1291212302456497
Right Out: -2174.652+/-0.000	χ^2/NDF : 4869035444551815173204287437144064.0/23	In: -304.882+/-0.000	χ^2/NDF : 1470112800281759
Left In: -2174.539+/-0.000	χ^2/NDF : 3400742562425168967494665391570944.0/22	Out: 358.004+/-0.000	χ^2/NDF : 1509085933908607
	All: 31.640+/-0.000	χ^2/NDF : 3050159151911	

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000	χ^2/NDF : 816003635504792932974592.0/21	Left: -0.000+/-0.000	χ^2/NDF : 20702696564433151
Left Out: -0.000+/-0.000	χ^2/NDF : 450400934180541069000704.0/24	Right: 0.000+/-0.000	χ^2/NDF : 59988027908325614
Right Out: 0.000+/-0.000	χ^2/NDF : 1118106833494739563577344.0/23	In: 0.000+/-0.000	χ^2/NDF : 1068616974008293512
Left In: 0.000+/-0.000	χ^2/NDF : 562166279020739416817664.0/22	Out: -0.000+/-0.000	χ^2/NDF : 11814498312282788
		All: -0.000+/-0.000	χ^2/NDF : 2672648232654

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41479796183983467597398016.0/21

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 : 2399836879679444

In: -0.001+/-0.000

χ^2/NDF : 273248231760382601

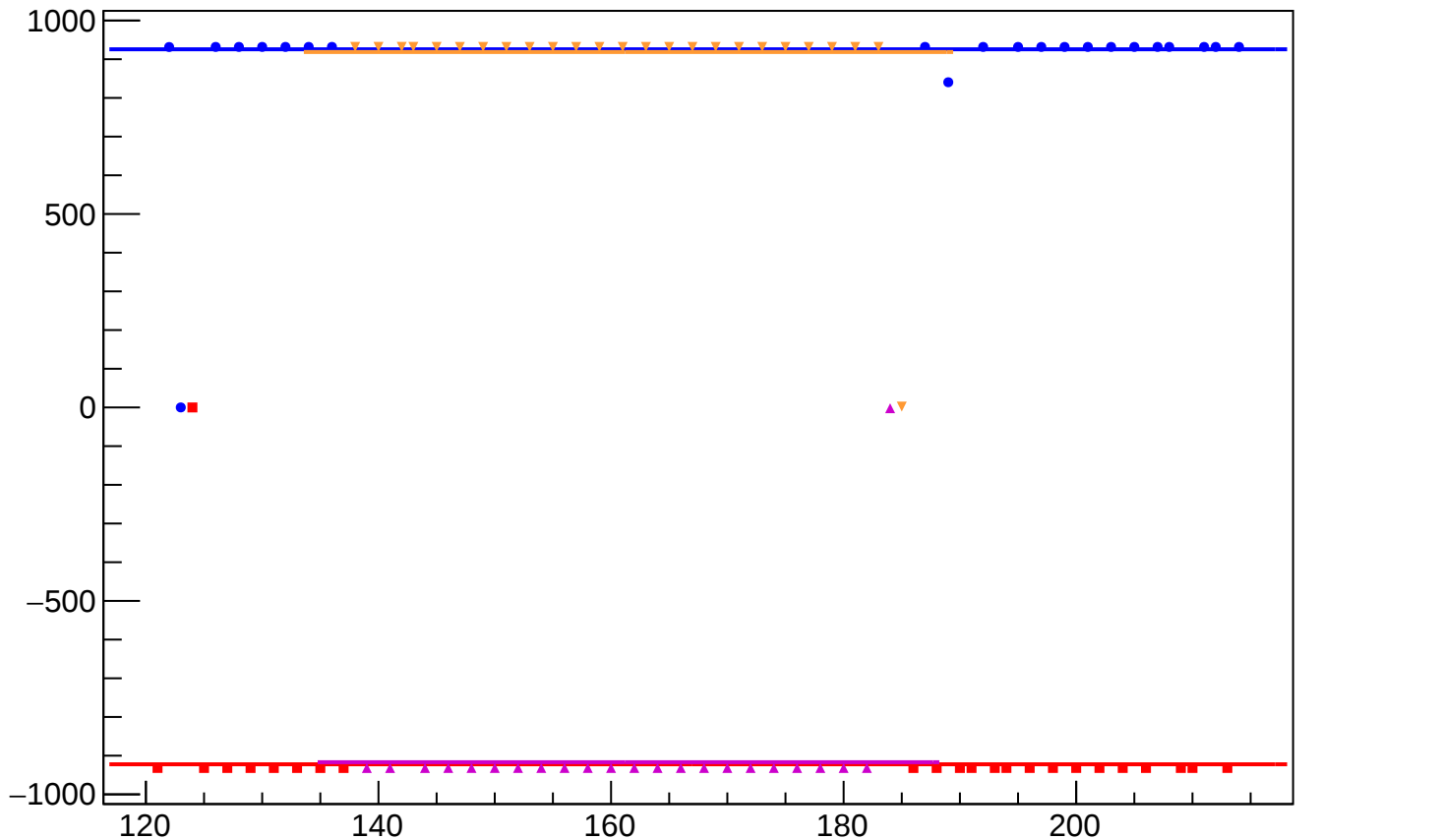
Out: 0.002+/-0.000

χ^2/NDF : 280467559070121280

All: 0.000+/-0.000

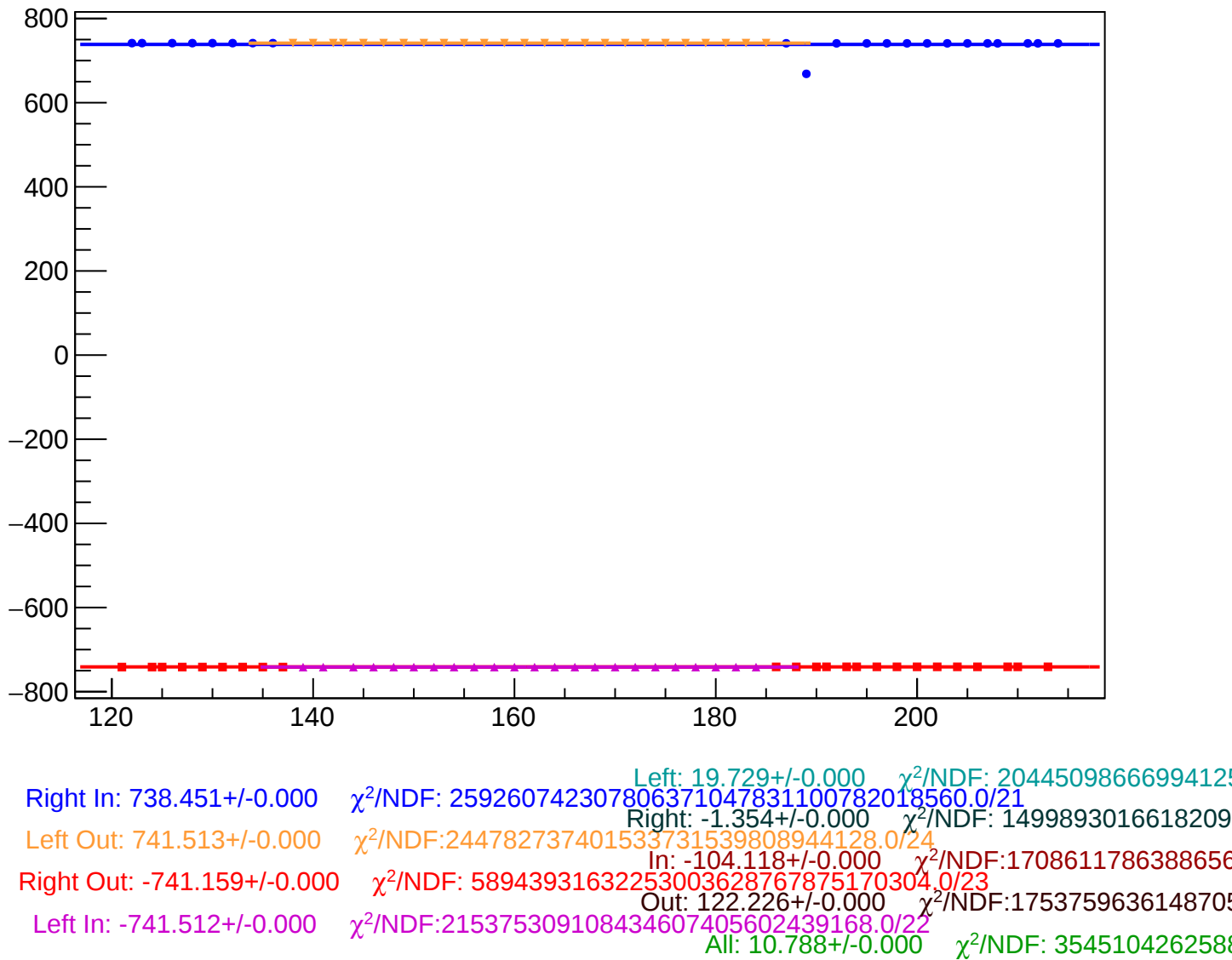
χ^2/NDF : 56690530716112

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected

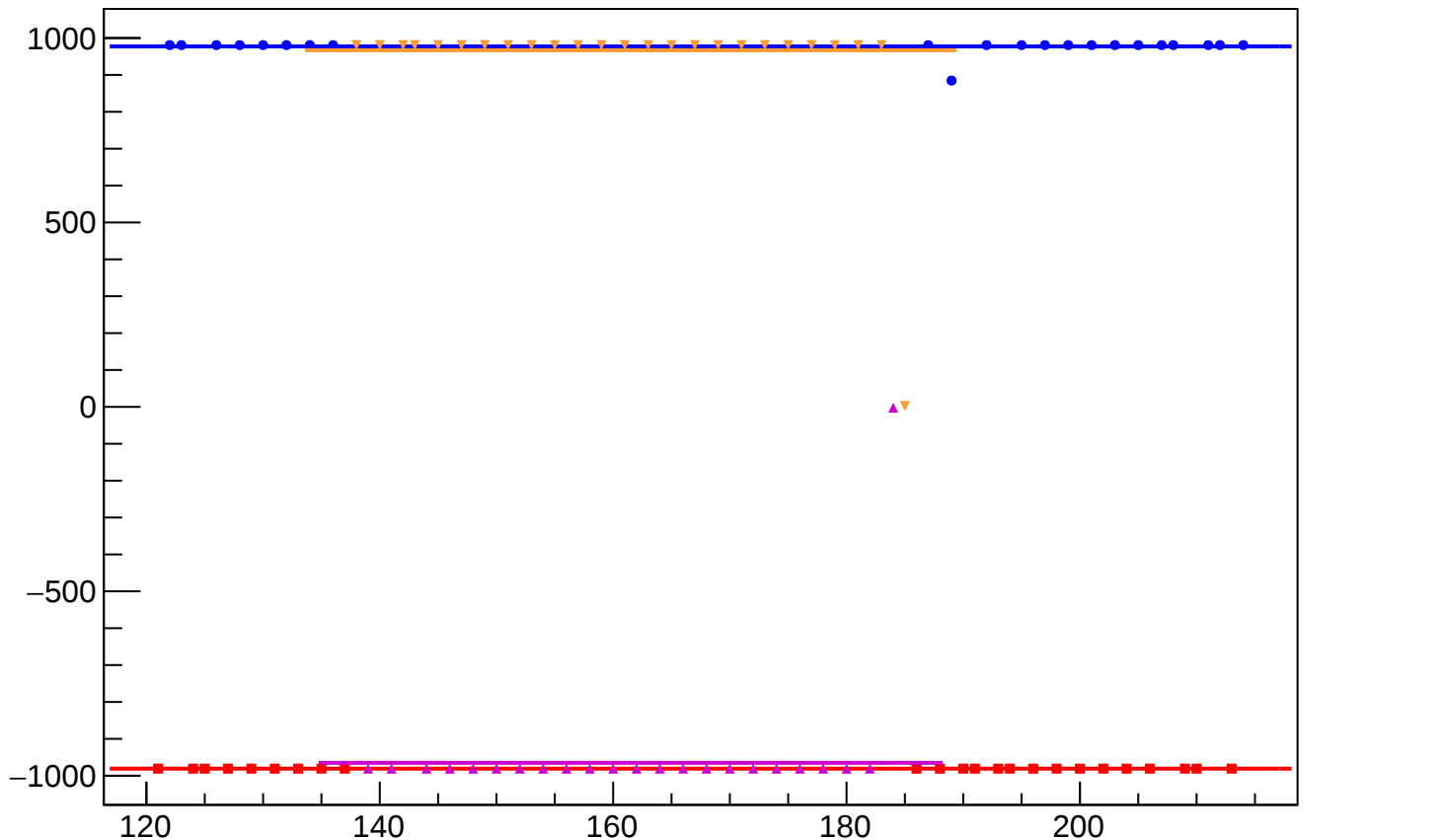


Right In: 925.666 $\pm$ 0.000 χ^2 /NDF: 3846418709847132921368092326401933312.0/21
 Left Out: 918.645 $\pm$ 0.000 χ^2 /NDF: 230034987040560849397524325213363224096.0/24
 Right Out: -922.274 $\pm$ 0.000 χ^2 /NDF: 12030360361719133082199596576519749632.0/23
 Left In: -916.890 $\pm$ 0.000 χ^2 /NDF: 2466789491747623125028694438888133632.0/22
 All: 15.287 $\pm$ 0.000 χ^2 /NDF: 5535586441324

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected

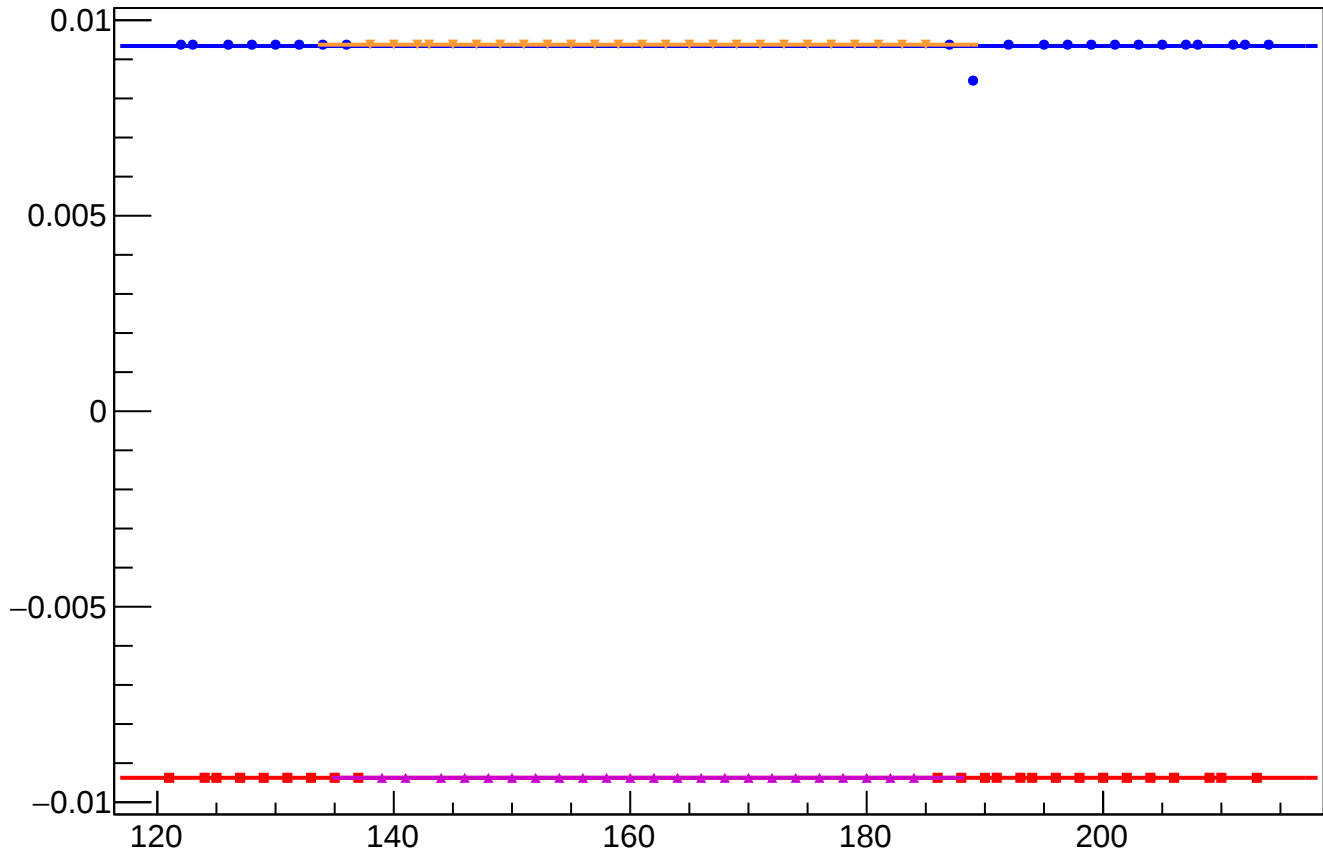


HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.229+/-0.000	χ^2/NDF : 454118226778400207203684435397443584.0/21	Left: 26.619+/-0.000	χ^2/NDF : 35227684296675597
Left Out: 966.936+/-0.000	χ^2/NDF : 25485578616543458629432284645183979520.0/24	Right: -1.794+/-0.000	χ^2/NDF : 2626707013198767
Right Out: -980.817+/-0.000	χ^2/NDF : 3501711074171675207762324750336.0/23	In: -128.575+/-0.000	χ^2/NDF : 2970322235266783
Left In: -965.102+/-0.000	χ^2/NDF : 27330319430012441419356351914146004992.0/22	Out: 153.393+/-0.000	χ^2/NDF : 3052035816560908
	All: 14.569+/-0.000	χ^2/NDF : 6150749321342	

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000

χ^2/NDF : 41479796183983467597398016.0/21

Left Out: 0.009 $\pm$ 0.000

χ^2/NDF : 0.1/24

Right Out: -0.009 $\pm$ 0.000

χ^2/NDF : 0.1/23

Left In: -0.009 $\pm$ 0.000

χ^2/NDF : 0.1/22

Left: 0.000 $\pm$ 0.000

χ^2/NDF : 326809514411447718

Right: -0.000 $\pm$ 0.000

χ^2/NDF : 2399836879679444

In: -0.001 $\pm$ 0.000

χ^2/NDF : 273248231760382601

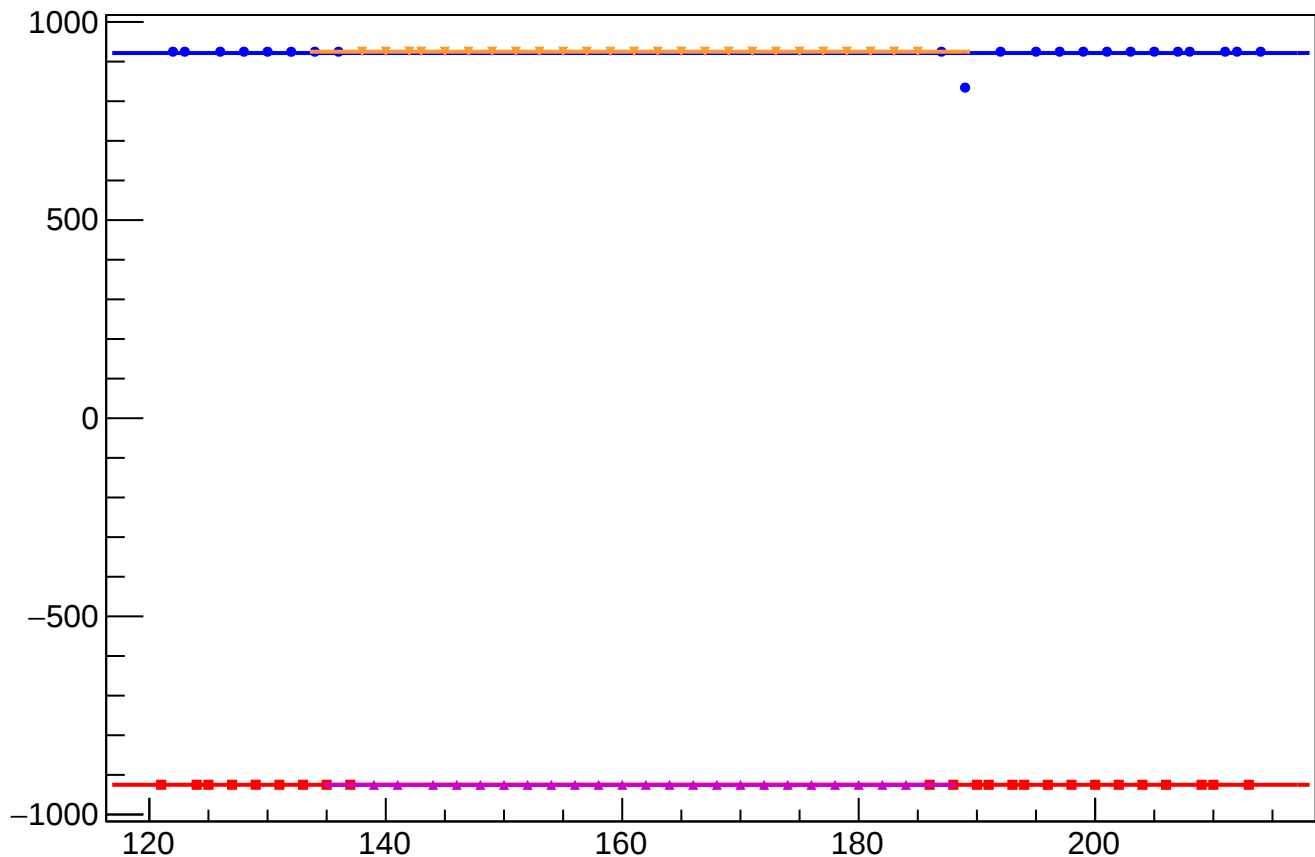
Out: 0.002 $\pm$ 0.000

χ^2/NDF : 280467559070121280

All: 0.000 $\pm$ 0.000

χ^2/NDF : 56690530716112

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 921.620+/-0.000

χ^2/NDF : 403521331405597040609868673309474816.0/21

Left Out: 924.983+/-0.000

χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -924.999+/-0.000

χ^2/NDF : 887299357447741680844351209472.0/23

Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

Left: 24.610+/-0.000 χ^2/NDF : 31814082693920915

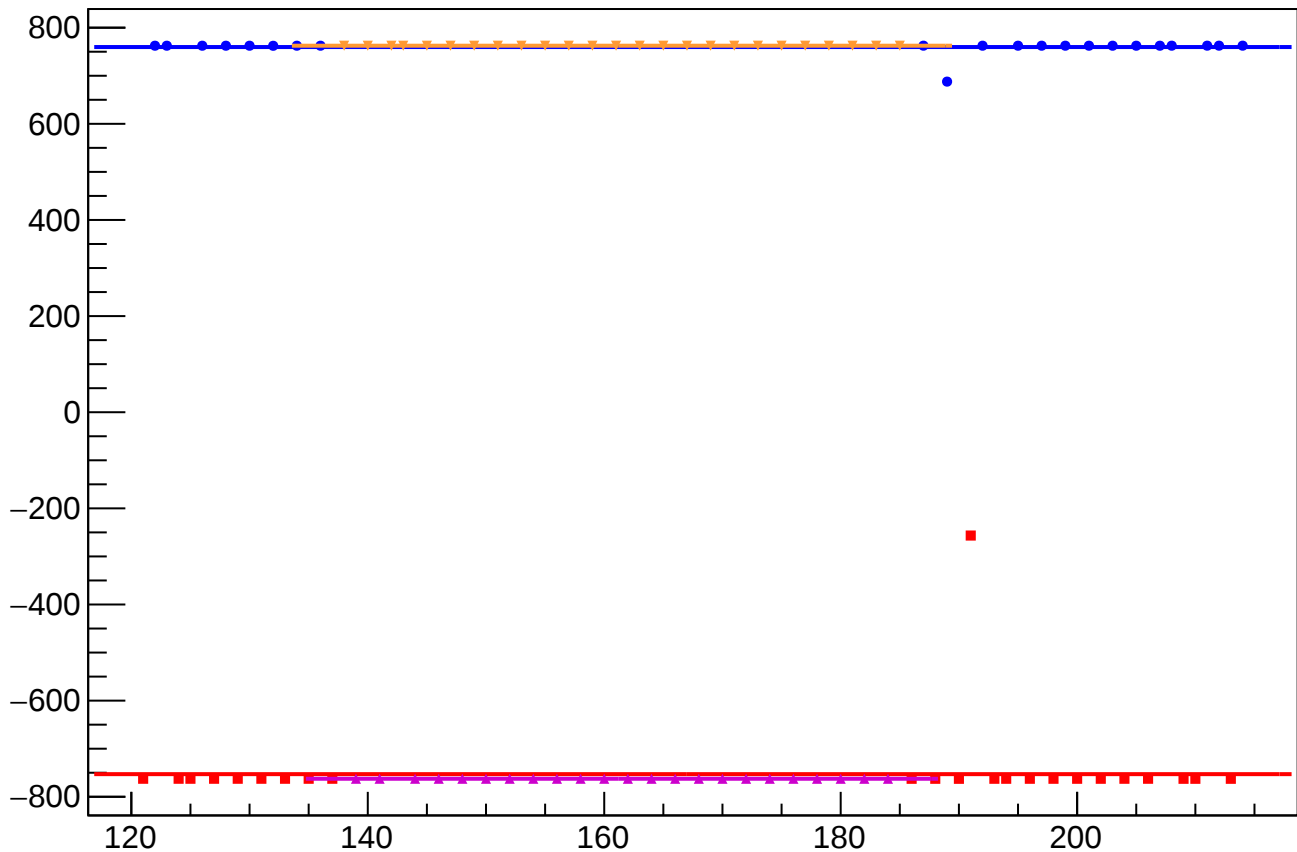
Right: -1.689+/-0.000 χ^2/NDF : 2336252670375332

In: -129.684+/-0.000 χ^2/NDF : 2660039448389680

Out: 152.277+/-0.000 χ^2/NDF : 2730327313097898

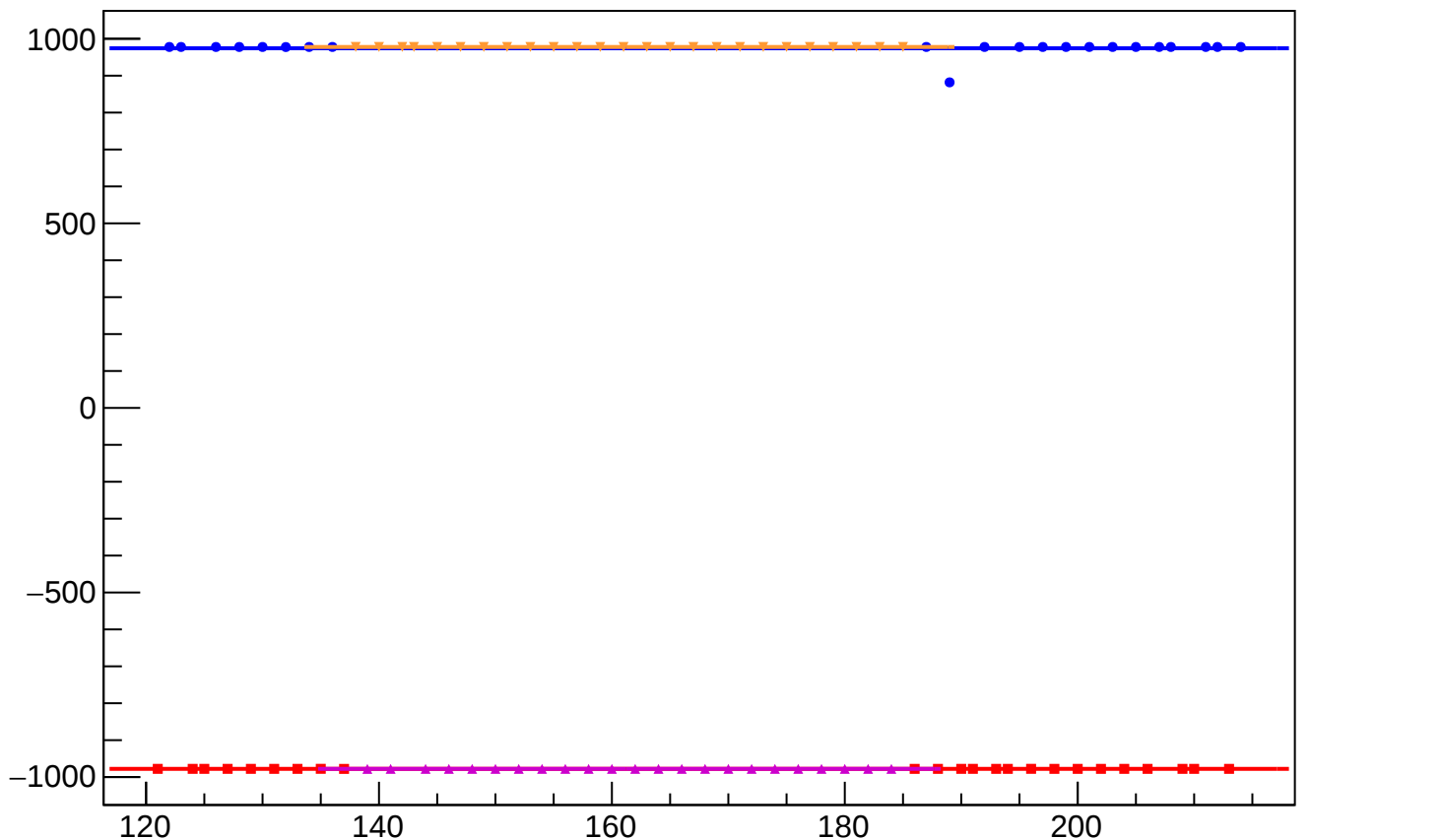
All: 13.457+/-0.000 χ^2/NDF : 5518752368856

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



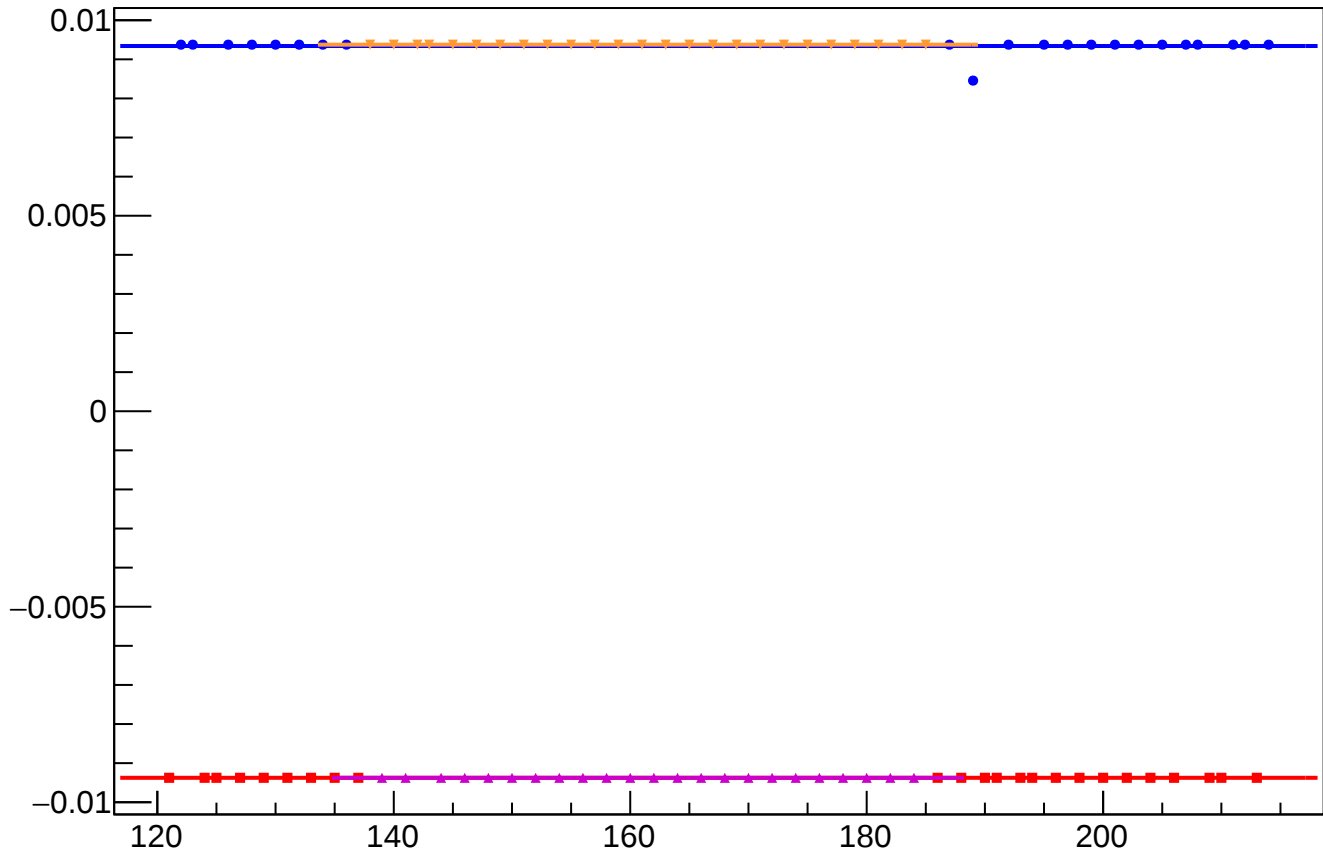
Right In: 759.744+/-0.000	χ^2/NDF : 274093326905515546647989873295753216.0/21	Left: 20.287+/-0.000	χ^2/NDF : 21619874128230354
Left Out: 762.518+/-0.000	χ^2/NDF : 731741258759628909874415403008.0/24	Right: 3.405+/-0.000	χ^2/NDF : 15742165250605664
Right Out: -752.933+/-0.000	χ^2/NDF : 6530215535864048243498307768161402880.0/23	In: -106.908+/-0.000	χ^2/NDF : 1807676134237360
Left In: -762.519+/-0.000	χ^2/NDF : 629058355419214408155297480704.0/22	Out: 129.540+/-0.000	χ^2/NDF : 1838694248576405
	All: 13.128+/-0.000		χ^2/NDF : 3736653661591

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.192 ± 0.000 $\chi^2/\text{NDF}: 451017445734032997566630268443295744.0/21$
 Left Out: 977.738 ± 0.000 $\chi^2/\text{NDF}: 1154150409979077132991401558016.0/24$
 Right Out: -977.756 ± 0.000 $\chi^2/\text{NDF}: 1850371035992917768149776990208.0/23$
 Left In: -977.735 ± 0.000 $\chi^2/\text{NDF}: 976503887937607318263199432704.0/22$
 All: 14.227 ± 0.000 $\chi^2/\text{NDF}: 6166231639919.0/20$

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41479796183983467597398016.0/21

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 : 2399836879679444

In: -0.001+/-0.000

χ^2/NDF : 273248231760382601

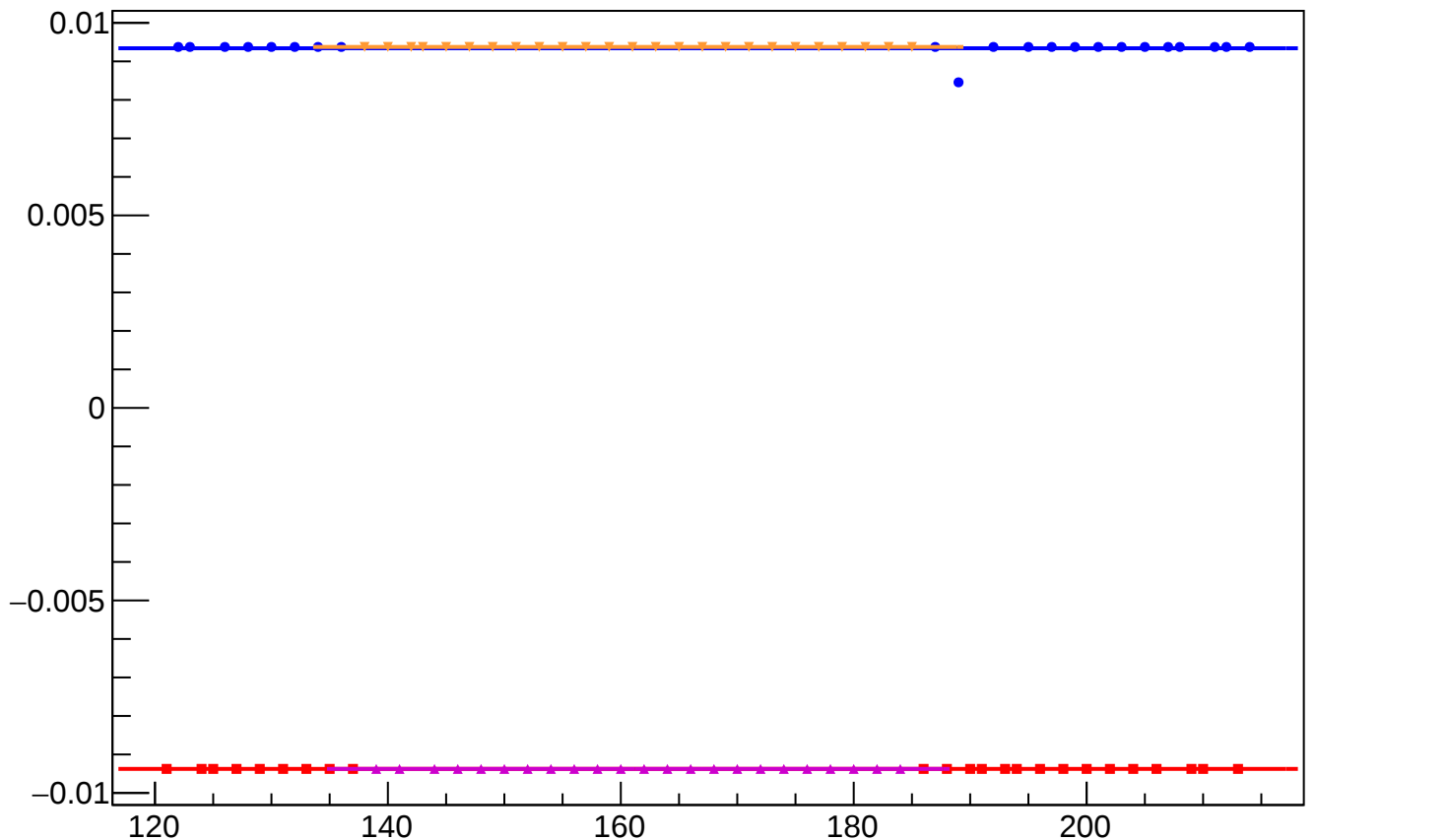
Out: 0.002+/-0.000

χ^2/NDF : 280467559070121280

All: 0.000+/-0.000

χ^2/NDF : 56690530716112

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41479796183983467597398016.0/21

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 : 2399836879679444

In: -0.001+/-0.000

χ^2/NDF : 273248231760382601

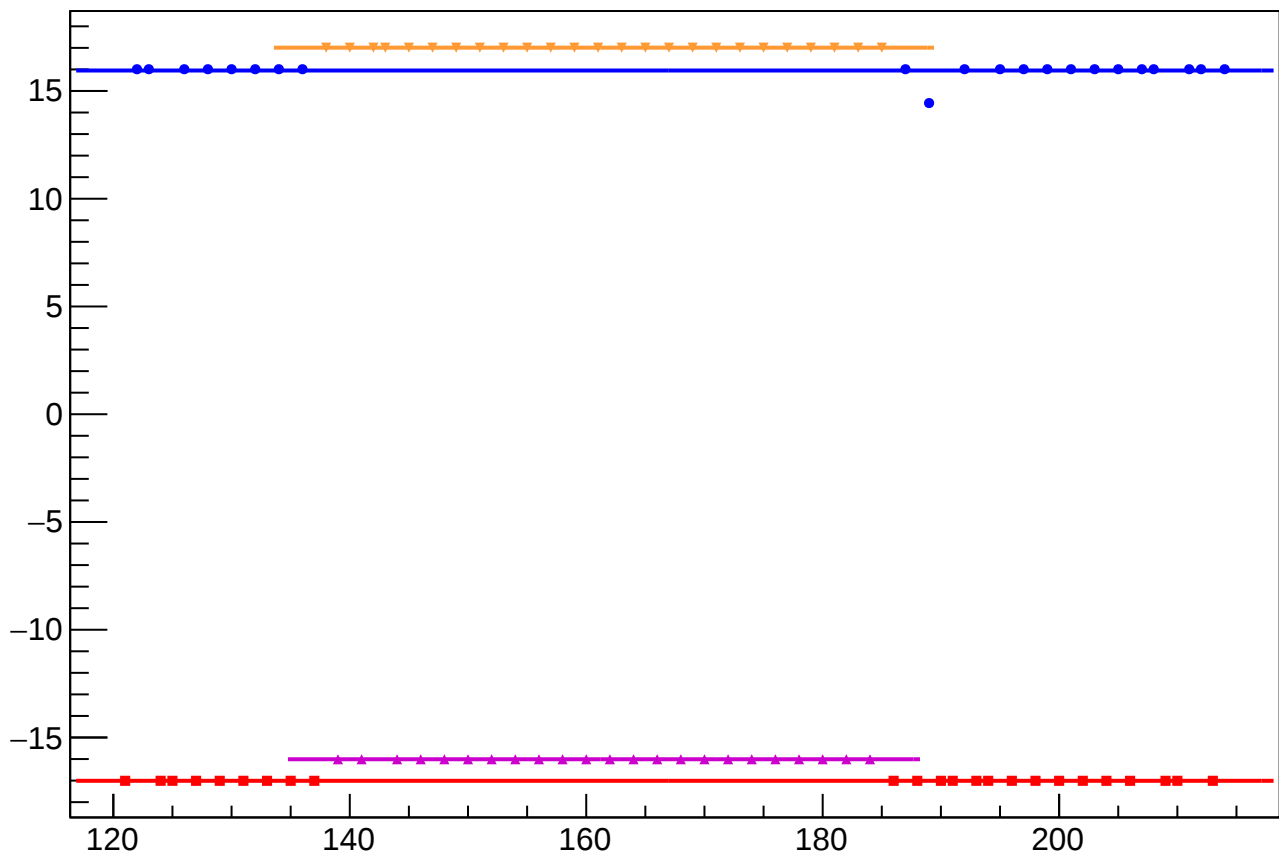
Out: 0.002+/-0.000

χ^2/NDF : 280467559070121280

All: 0.000+/-0.000

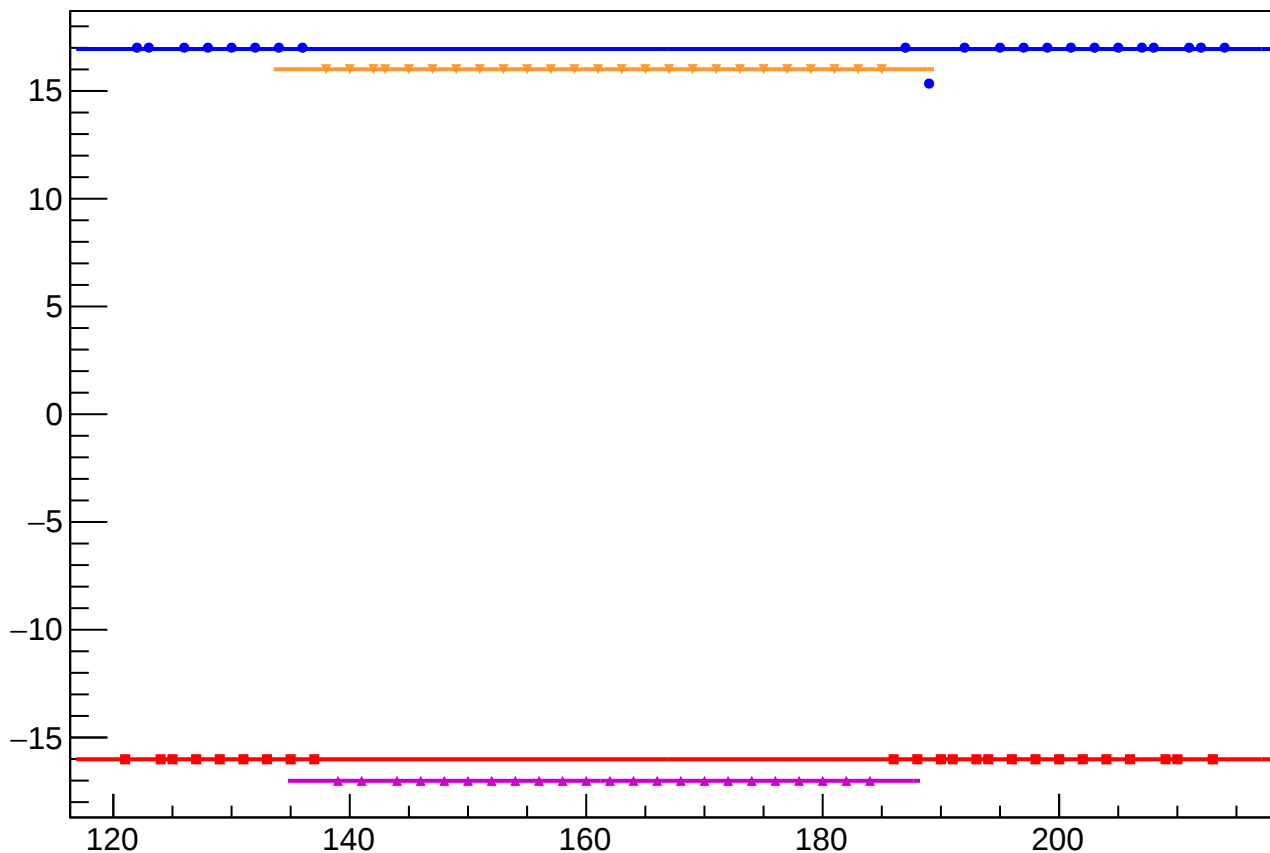
χ^2/NDF : 56690530716112

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



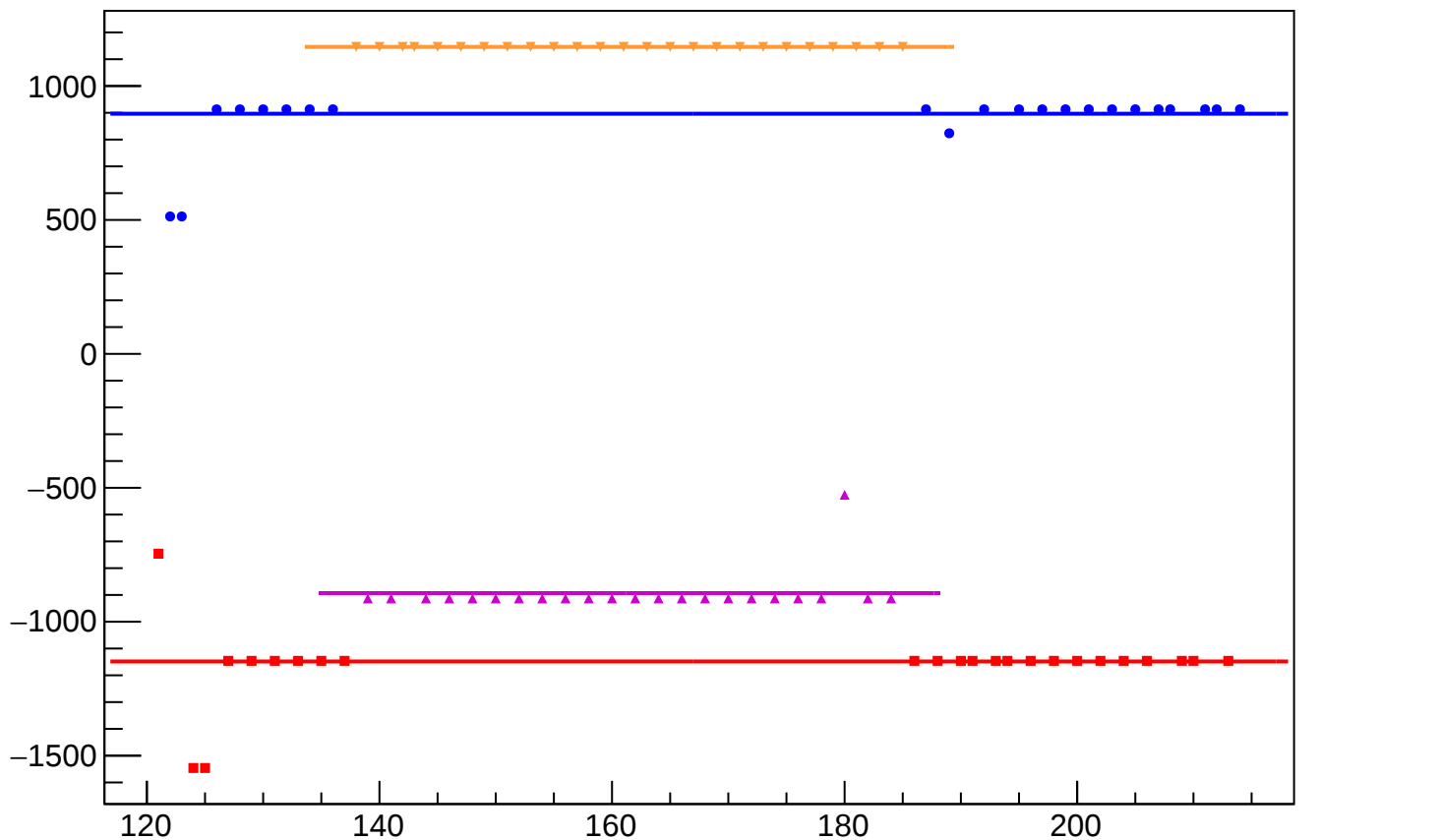
Right In: 15.950 $\pm$ 0.000 χ^2 /NDF: 120868509209626192130157288882176.0/21
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 17249027800232680683995136.0/23
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.269 $\pm$ 0.000 χ^2 /NDF: 16782067927470

IGL1I00OD16_16_mean vs Slug, Sign Corrected



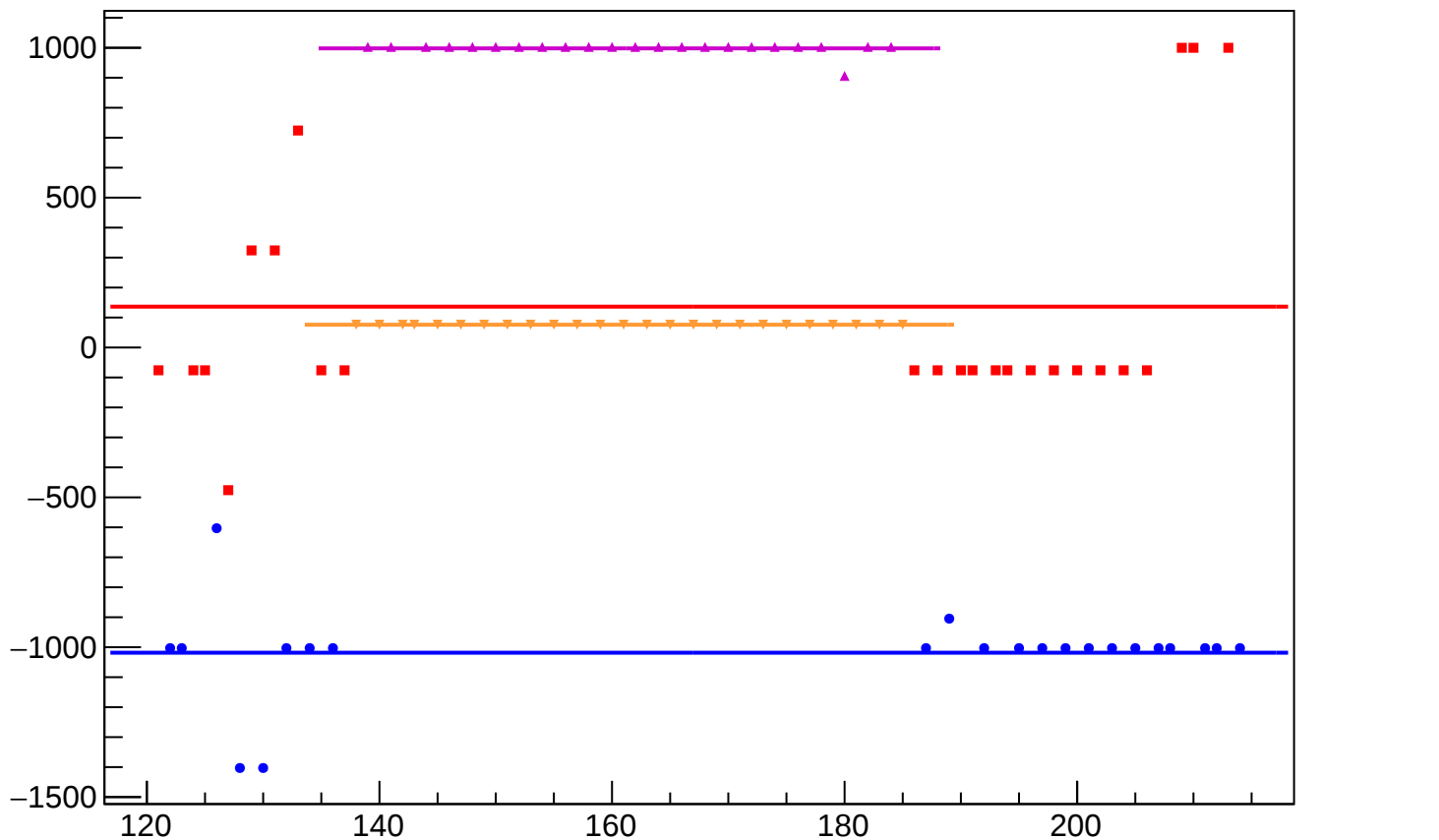
Right In: 16.947+/-0.000	χ^2/NDF : 136542061782301352303667152158720.0/21	Left: 0.042+/-0.000	χ^2/NDF : 994312337700629058
Left Out: 16.009+/-0.000	χ^2/NDF : 89740.8/24	Right: 0.469+/-0.000	χ^2/NDF : 74414360818505080
Right Out: -16.009+/-0.000	χ^2/NDF : 249242.2/23	In: -2.175+/-0.000	χ^2/NDF : 889716934552236557
Left In: -17.009+/-0.000	χ^2/NDF : 115033472633445654986752.0/22	Out: 2.537+/-0.000	χ^2/NDF : 813554414119847644
		All: 0.225+/-0.000	χ^2/NDF : 17387406808022

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 896.523+/-0.000 χ^2/NDF : 7236997881322243283345413920645971968.0/21
 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: 35.049+/-0.000 χ^2/NDF : 6887068802843

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1018.306+/-0.000

χ^2/NDF : 23371373543758249799614766410123706368.0/21

Left Out: 76.011+/-0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: 136.324+/-0.000

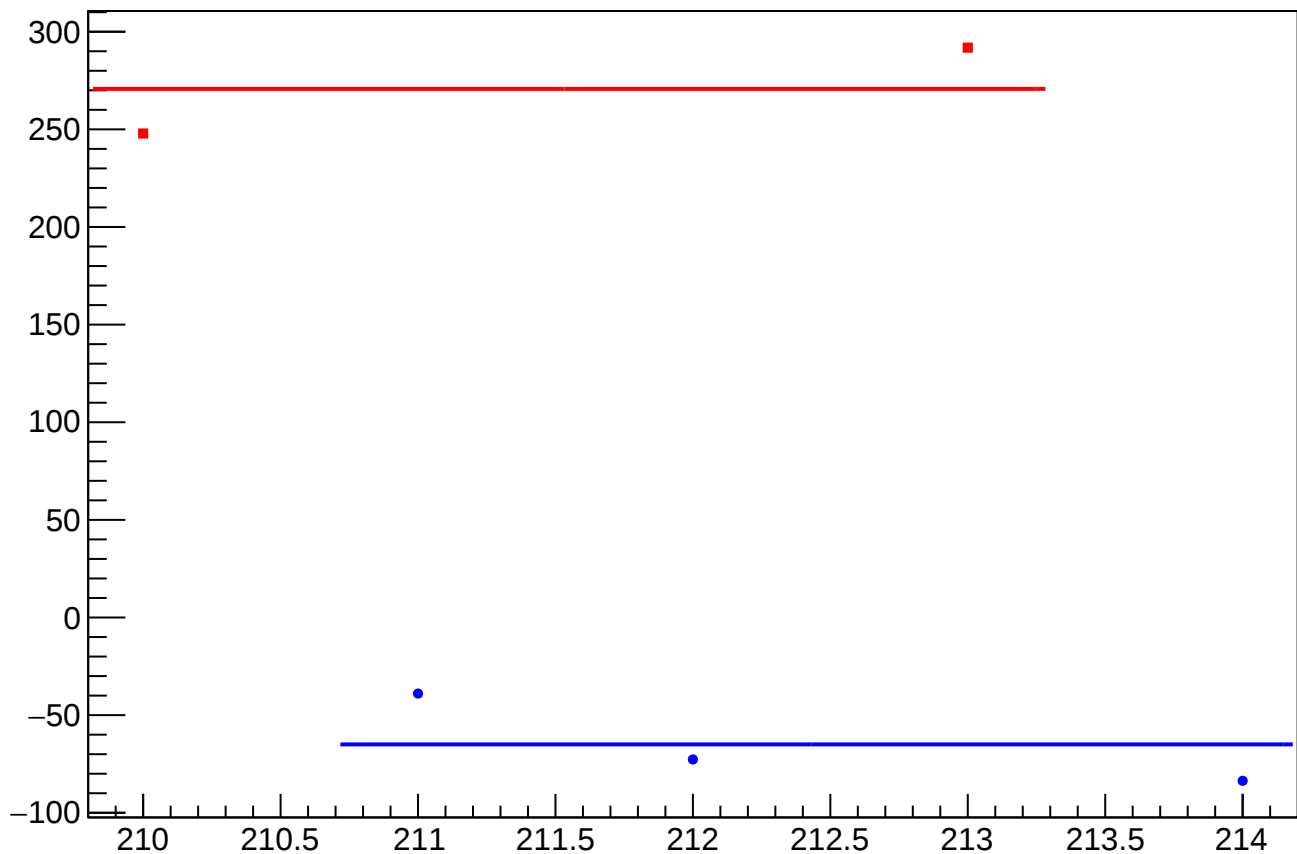
χ^2/NDF : 245769535234221074351283229545319104512.0/23

Left In: 998.020+/-0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

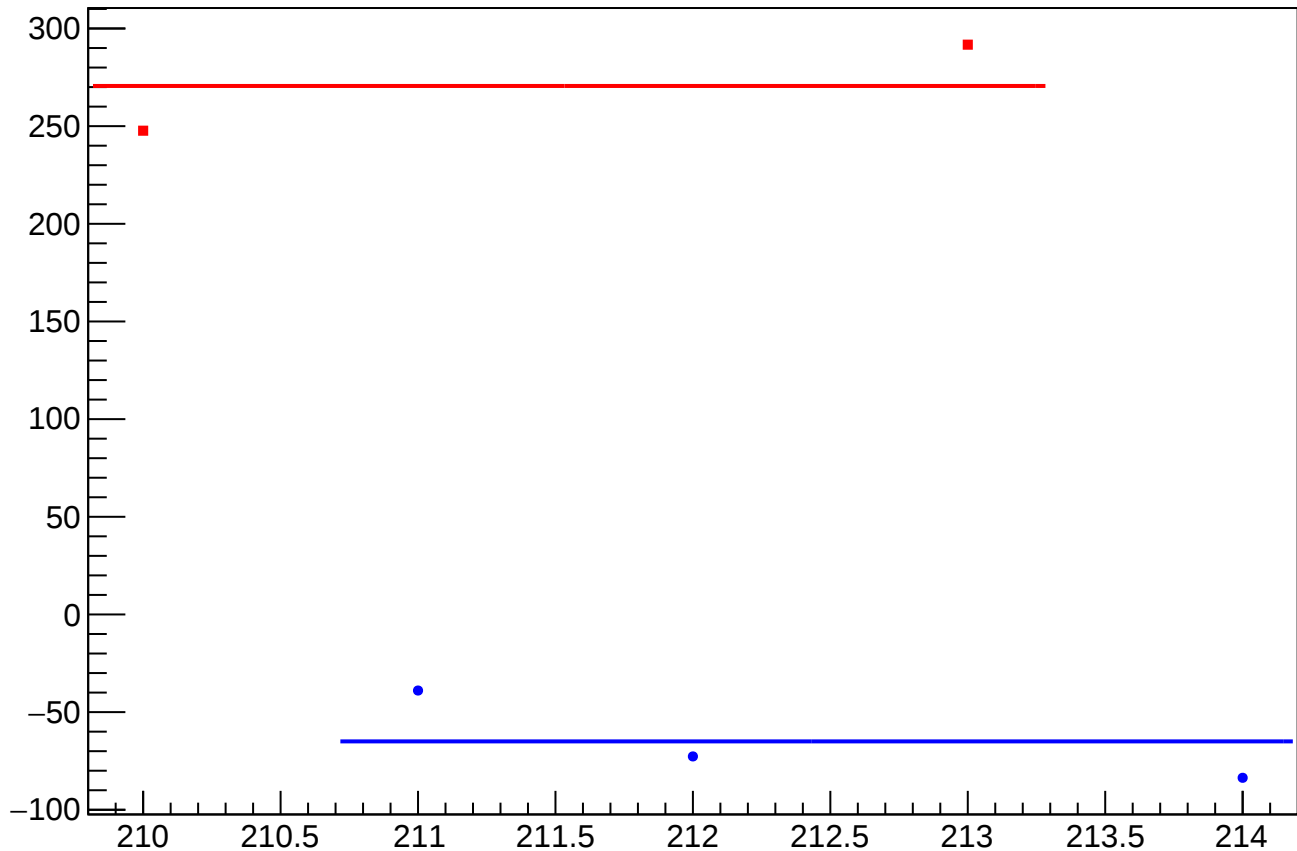
All: 115.196+/-0.000 χ^2/NDF : 344517924511

RTPPITA1CNT_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right: 68.235+/-0.000 χ^2/NDF : 1035273153368502
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right In: -64.985+/-0.000 χ^2/NDF : 83351748488123261688819192042618880.0/2
 Right Out: 270.729+/-0.000 χ^2/NDF : 72391751130083692399004283901575168.0/1
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: 68.235+/-0.000 χ^2/NDF : 1035273153368

RTPPITA2CNT_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
Right In: -64.985+/-0.000 χ^2/NDF : 83351748488123261688819192042618880.0/2
Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
Right: 68.174+/-0.000 χ^2/NDF : 1034357578095746
In: -64.985+/-0.000 χ^2/NDF : 83351748488123261688819192042618880.0/2
Right Out: 270.574+/-0.000 χ^2/NDF : 72629179805941194116968620035670016.0/1
Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
All: 68.174+/-0.000 χ^2/NDF : 1034357578095