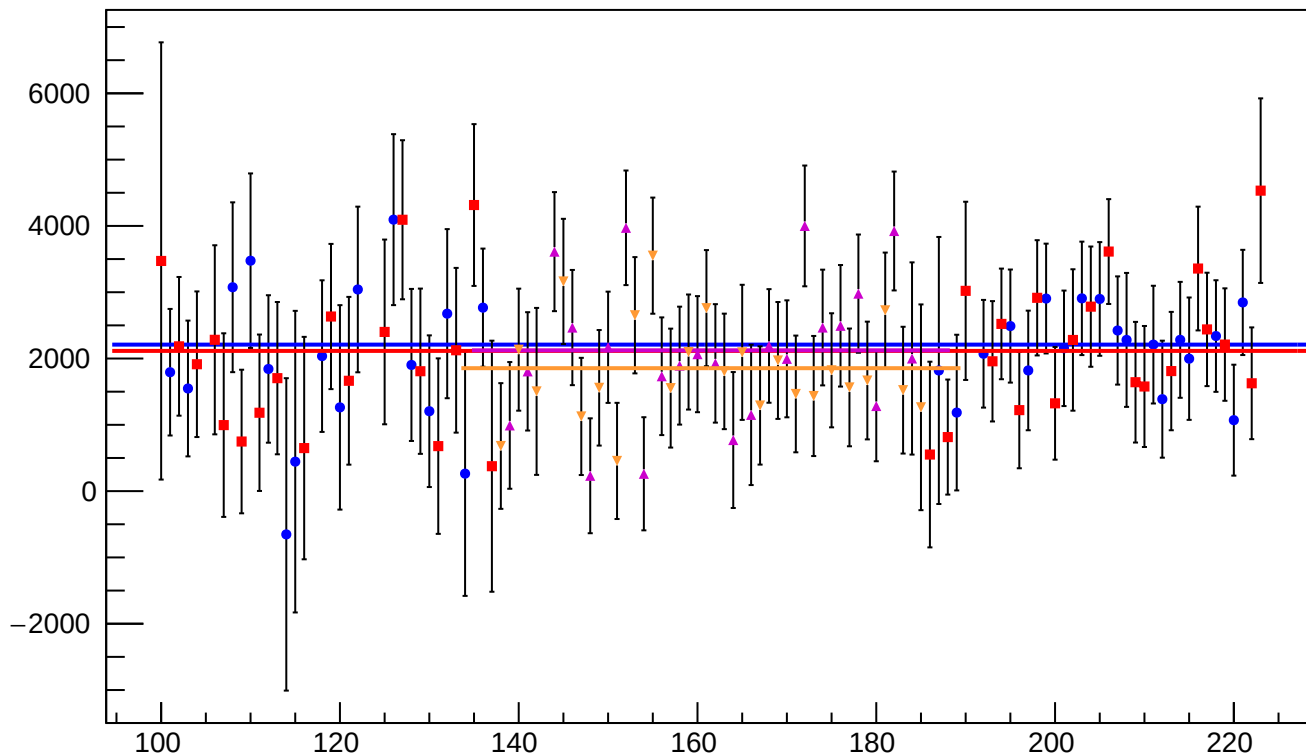


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2209.761+/-173.863

Left Out: 1854.267+/-187.405

Right Out: 2115.023+/-173.413

Left In: 1213.138+/-188.684

χ^2/NDF : 16.3/33

χ^2/NDF : 15.1/23

χ^2/NDF : 29.6/36

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2162.269+/-122.780

In: 2169.985+/-127.859

Out: 1994.741+/-127.281

All: 2081.967+/-90.205

χ^2/NDF : 48.1/46

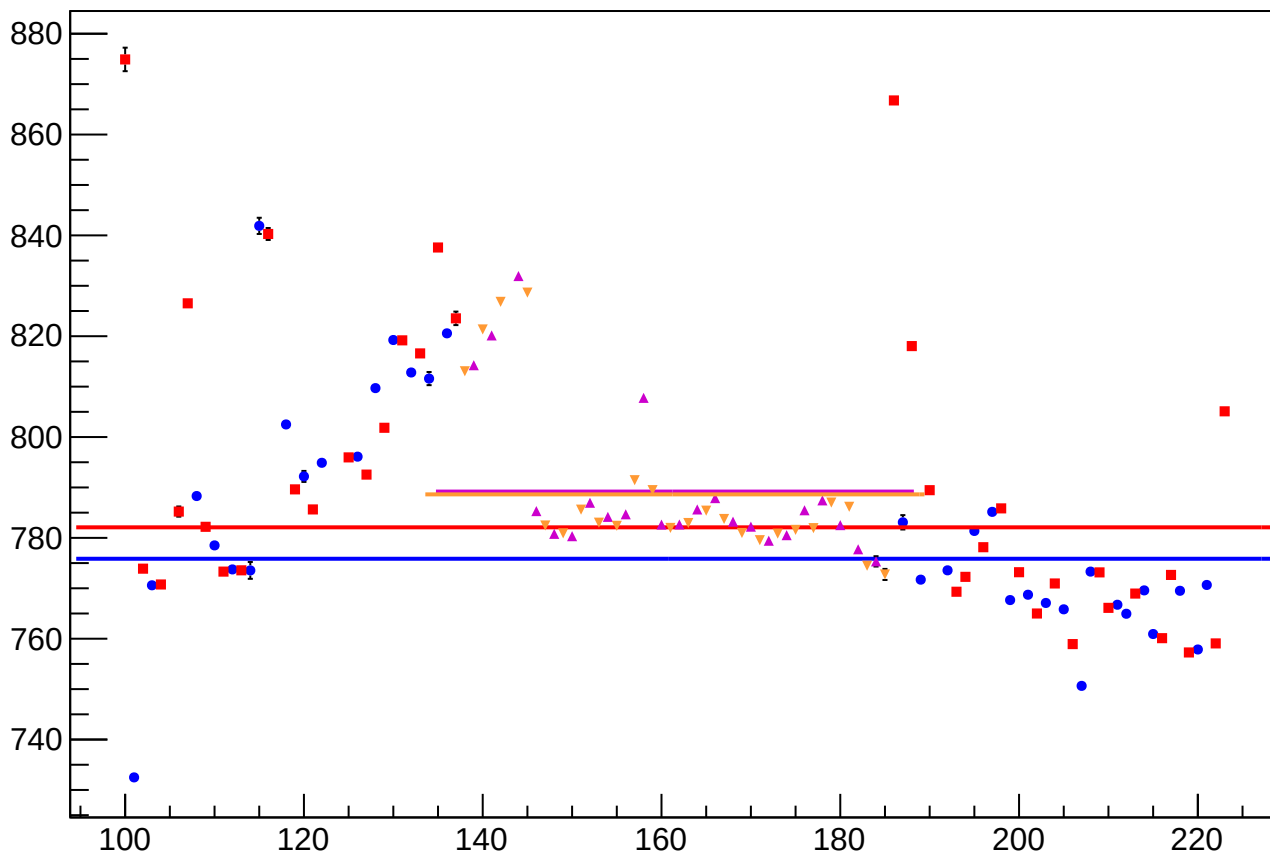
χ^2/NDF : 46.0/70

χ^2/NDF : 48.4/56

χ^2/NDF : 45.7/60

χ^2/NDF : 95.1/117

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 775.857 $\pm$ 0.123 χ^2 /NDF: 25794.2/33

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

Right Out: 782.092 $\pm$ 0.123 χ^2 /NDF: 36440.6/36

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

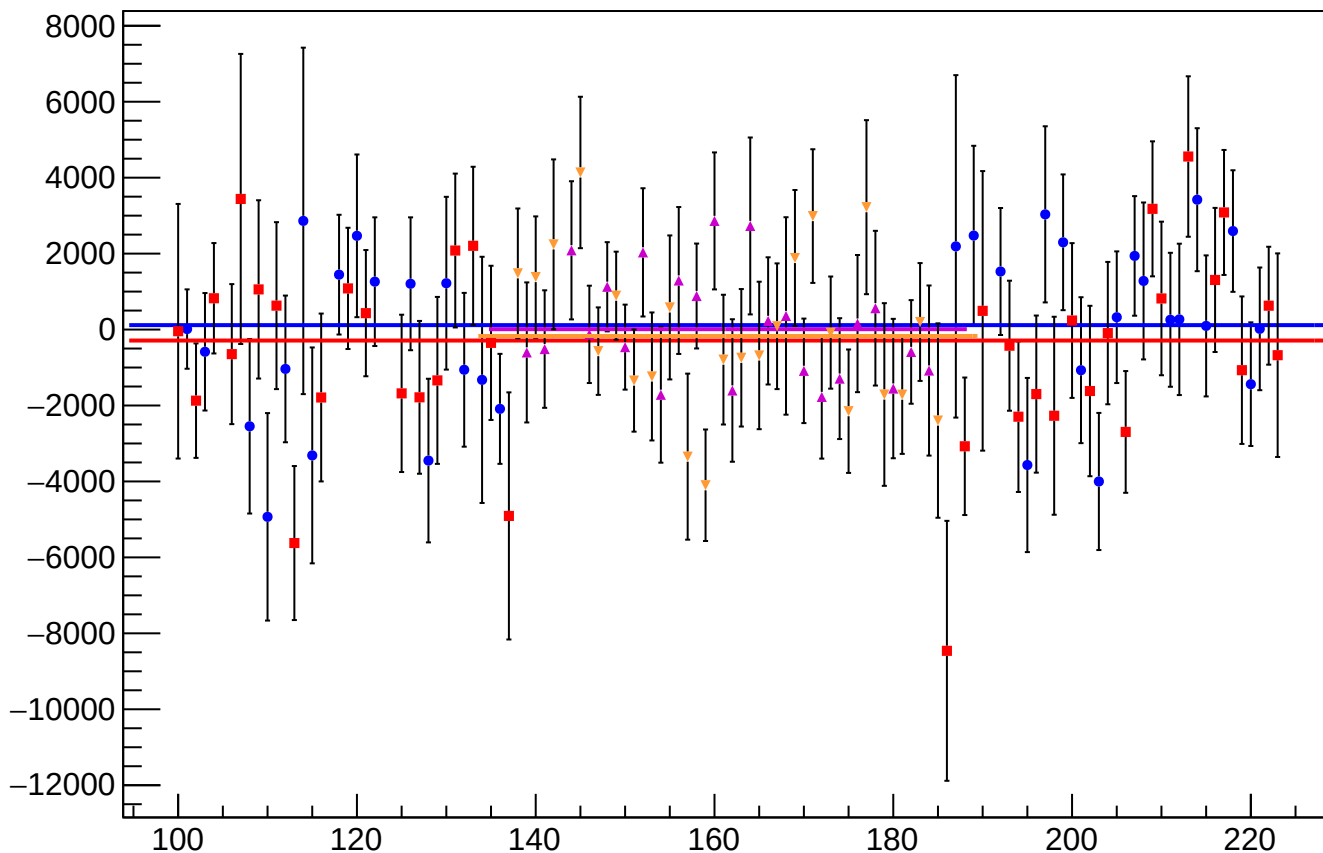
Right: 778.982 $\pm$ 0.087 χ^2 /NDF: 63523.9/70

In: 781.977 $\pm$ 0.090 χ^2 /NDF:42533.8/56

Out: 785.107 $\pm$ 0.090 χ^2 /NDF:49229.9/60

All: 783.549 $\pm$ 0.064 χ^2 /NDF: 92365.8/117

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: 116.457 ± 320.517 $\chi^2/\text{NDF}: 37.0/33$

Left Out: -169.172 ± 340.391 $\chi^2/\text{NDF}: 30.0/23$

Right Out: -289.086 ± 328.651 $\chi^2/\text{NDF}: 45.2/36$

Left In: 10.093 ± 337.810 $\chi^2/\text{NDF}: 14.2/22$

Left: -78.858 ± 239.775 $\chi^2/\text{NDF}: 44.4/46$

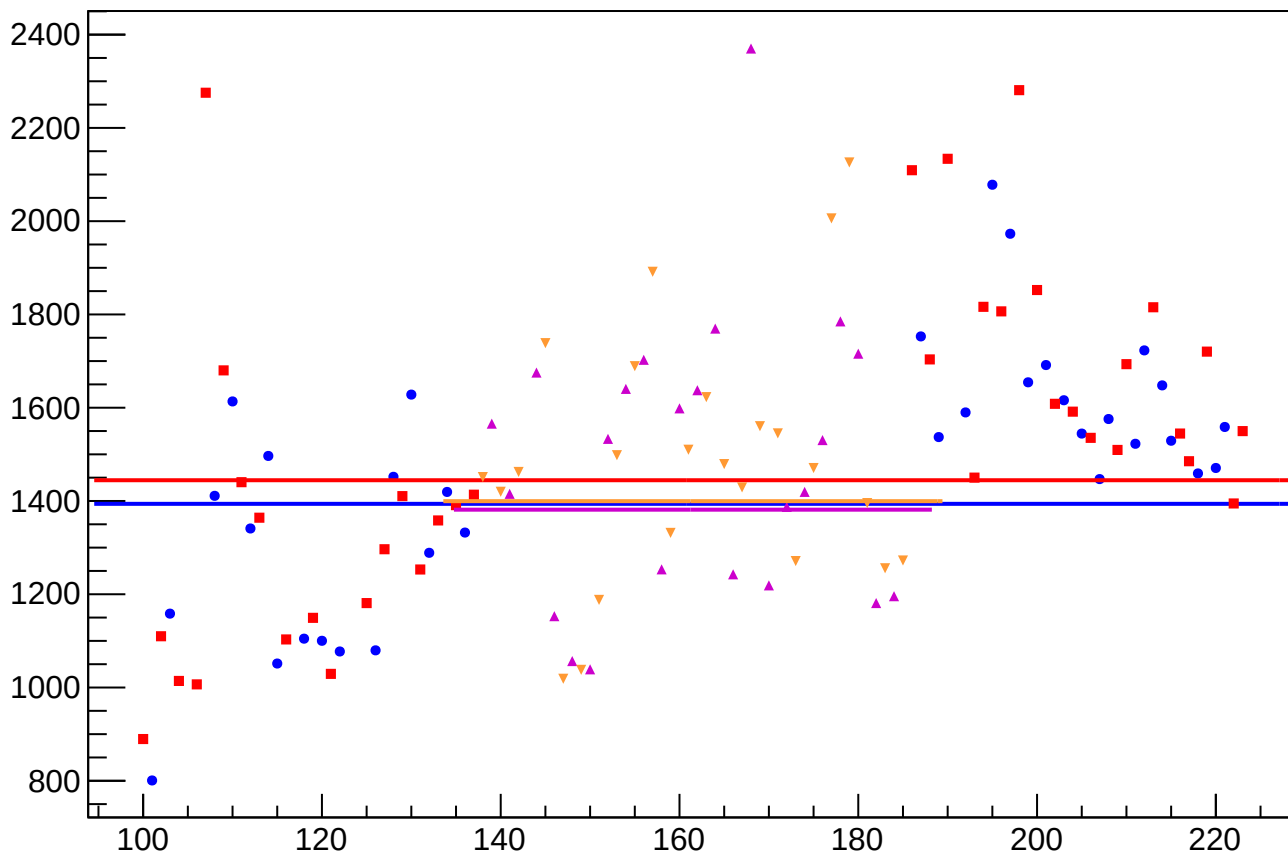
Right: -81.234 ± 229.461 $\chi^2/\text{NDF}: 83.0/70$

In: 66.067 ± 232.513 $\chi^2/\text{NDF}: 51.2/56$

Out: -231.232 ± 236.433 $\chi^2/\text{NDF}: 75.3/60$

All: -80.098 ± 165.780 $\chi^2/\text{NDF}: 127.3/117$

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1393.883 $\pm$ 0.227 χ^2 /NDF: 1650553.0/33

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

Right Out: 1444.500 $\pm$ 0.232 χ^2 /NDF: 1647095.5/36

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

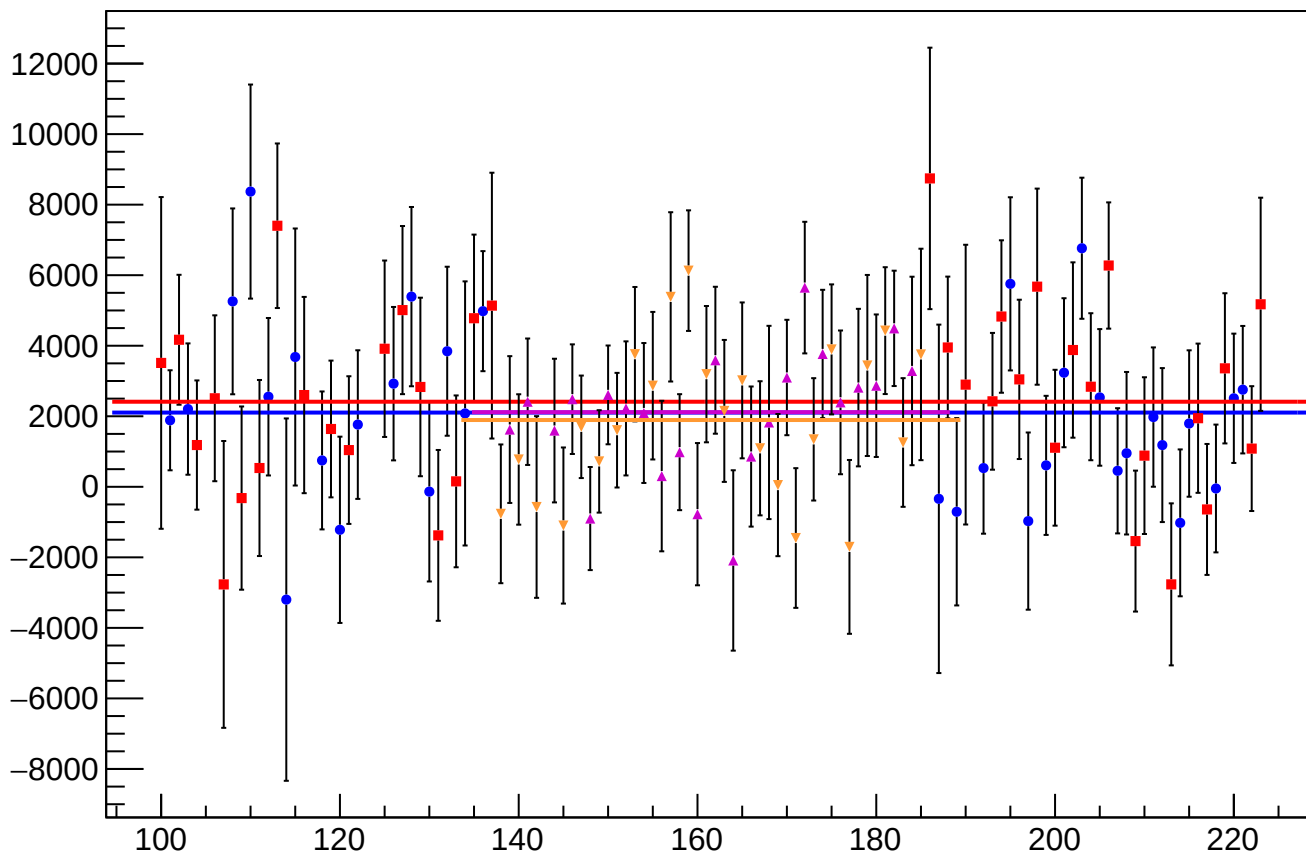
Right: 1418.557 $\pm$ 0.162 χ^2 /NDF: 3321963.0/70

In: 1387.950 $\pm$ 0.164 χ^2 /NDF:2928488.0/56

Out: 1422.831 $\pm$ 0.167 χ^2 /NDF:2784241.0/60

All: 1405.099 $\pm$ 0.117 χ^2 /NDF: 5734858.6/11

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2104.725 $\pm$ 371.909 χ^2 /NDF: 32.4/33

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

Right Out: 2412.291 $\pm$ 378.553 χ^2 /NDF: 41.7/36

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

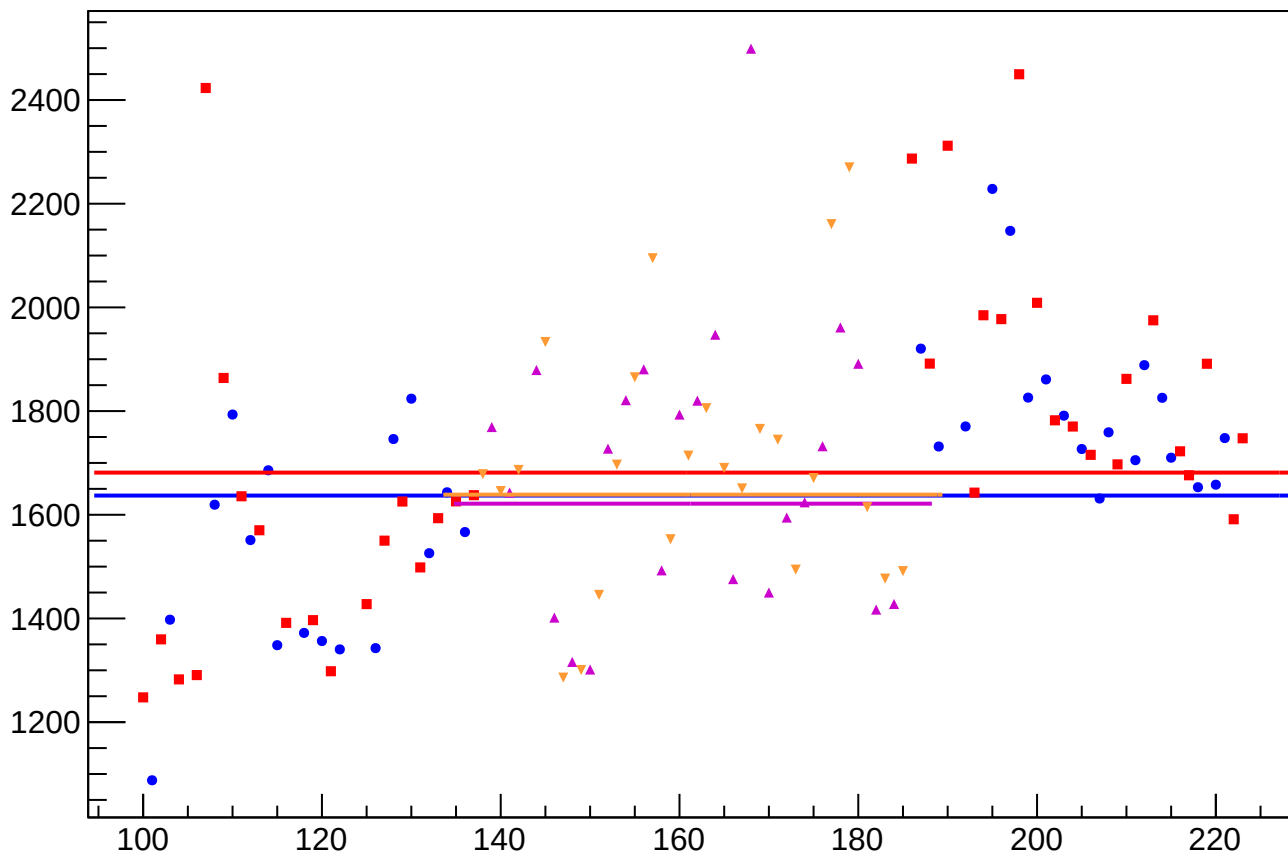
Right: 2255.785 $\pm$ 265.297 χ^2 /NDF: 74.4/70

In: 2110.106 $\pm$ 270.127 χ^2 /NDF:51.2/56

Out: 2163.825 $\pm$ 273.266 χ^2 /NDF:68.6/60

All: 2136.655 $\pm$ 192.109 χ^2 /NDF: 119.7/117

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1637.051 $\pm$ 0.263 χ^2 /NDF: 848248.9/33

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

Right Out: 1681.362 $\pm$ 0.268 χ^2 /NDF: 961592.9/36

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

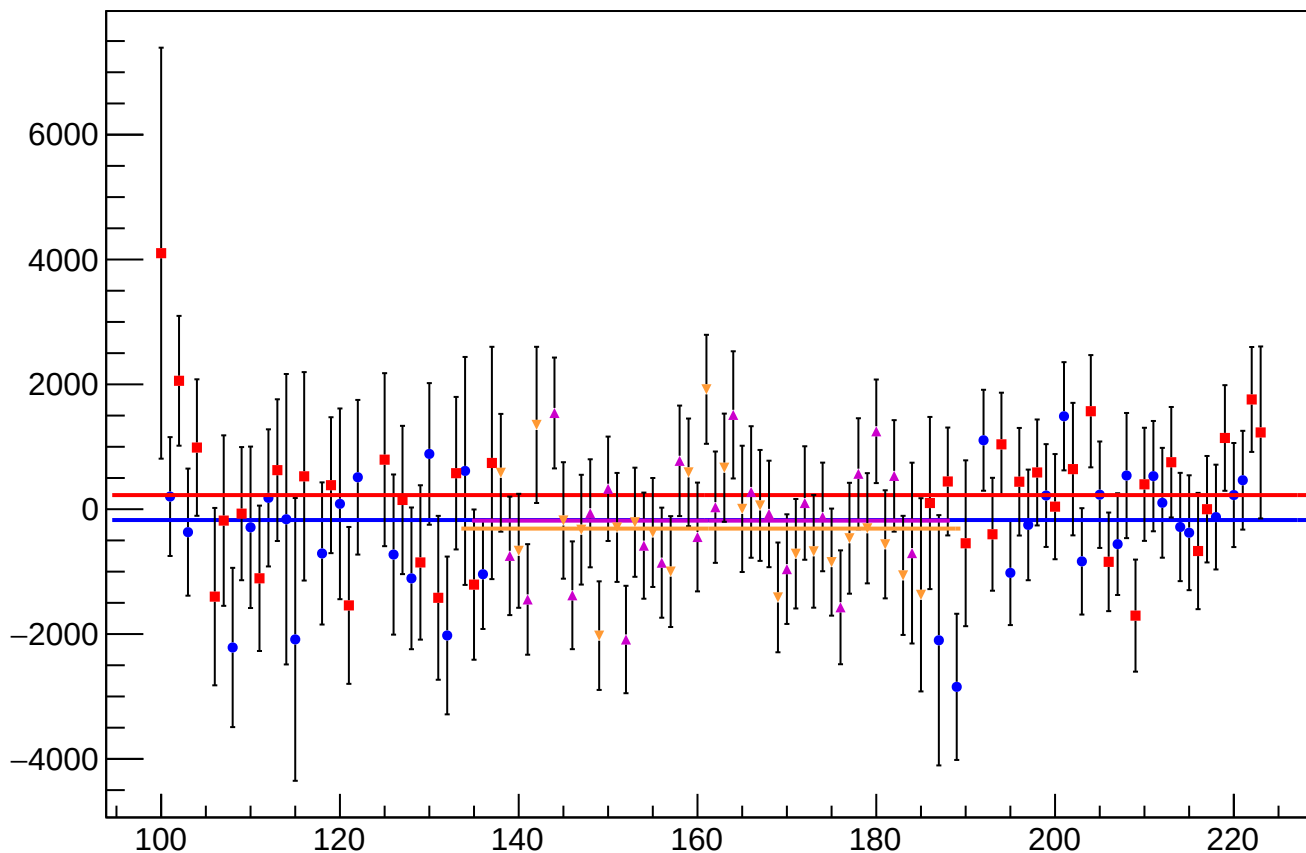
Right: 1658.814 $\pm$ 0.188 χ^2 /NDF: 1823785.9/70

In: 1629.665 $\pm$ 0.191 χ^2 /NDF: 1625228.8/56

Out: 1660.982 $\pm$ 0.193 χ^2 /NDF: 1645603.9/60

All: 1645.142 $\pm$ 0.136 χ^2 /NDF: 3284118.3/11

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -173.456 ± 172.685 χ^2/NDF : 26.0/33

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

Right Out: 226.153 ± 171.962 χ^2/NDF : 31.4/36

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

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

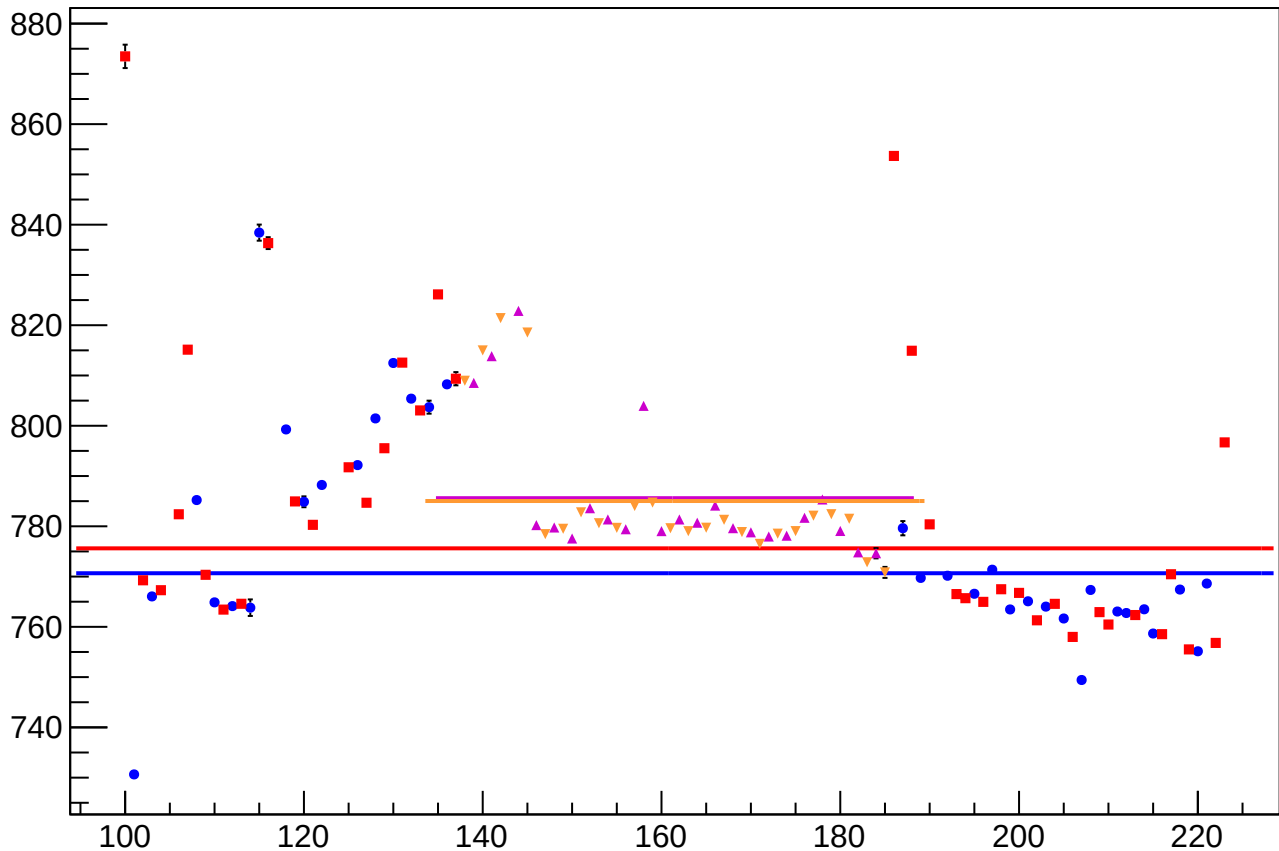
Right: 27.187 ± 121.850 χ^2/NDF : 60.1/70

In: -177.780 ± 127.120 χ^2/NDF : 52.1/56

Out: -20.420 ± 126.435 χ^2/NDF : 55.9/60

All: -98.674 ± 89.644 χ^2/NDF : 108.8/117

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 770.663 $\pm$ 0.122 χ^2 /NDF: 21750.5/33

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

Right Out: 775.614 $\pm$ 0.122 χ^2 /NDF: 32819.4/36

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

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

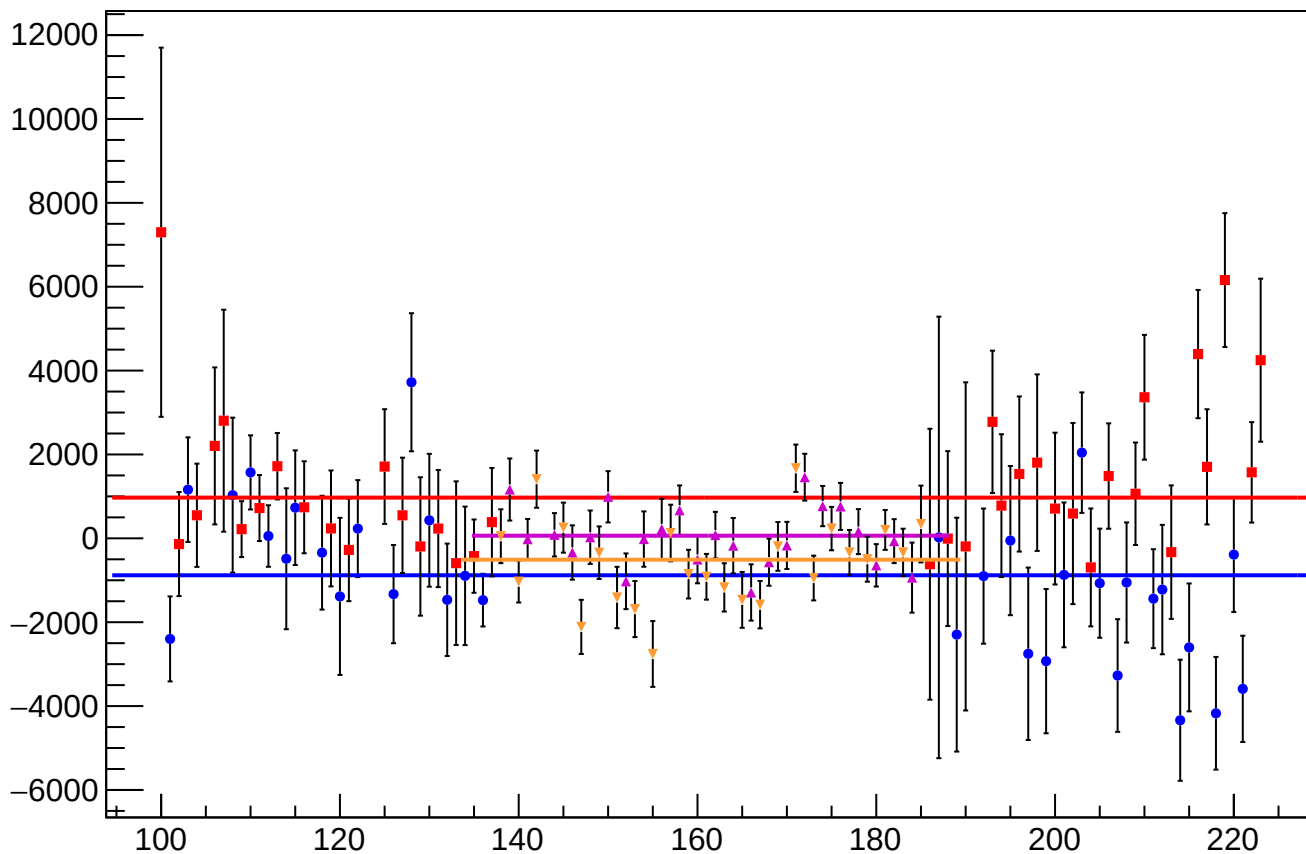
Right: 773.149 $\pm$ 0.086 χ^2 /NDF: 55395.2/70

In: 777.502 $\pm$ 0.090 χ^2 /NDF:37971.5/56

Out: 779.940 $\pm$ 0.089 χ^2 /NDF:44942.4/60

All: 778.728 $\pm$ 0.063 χ^2 /NDF: 83283.7/117

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -880.725 ± 222.937 $\chi^2/\text{NDF}: 55.7/33$

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

Right Out: 970.924 ± 220.995 $\chi^2/\text{NDF}: 37.9/36$

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

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

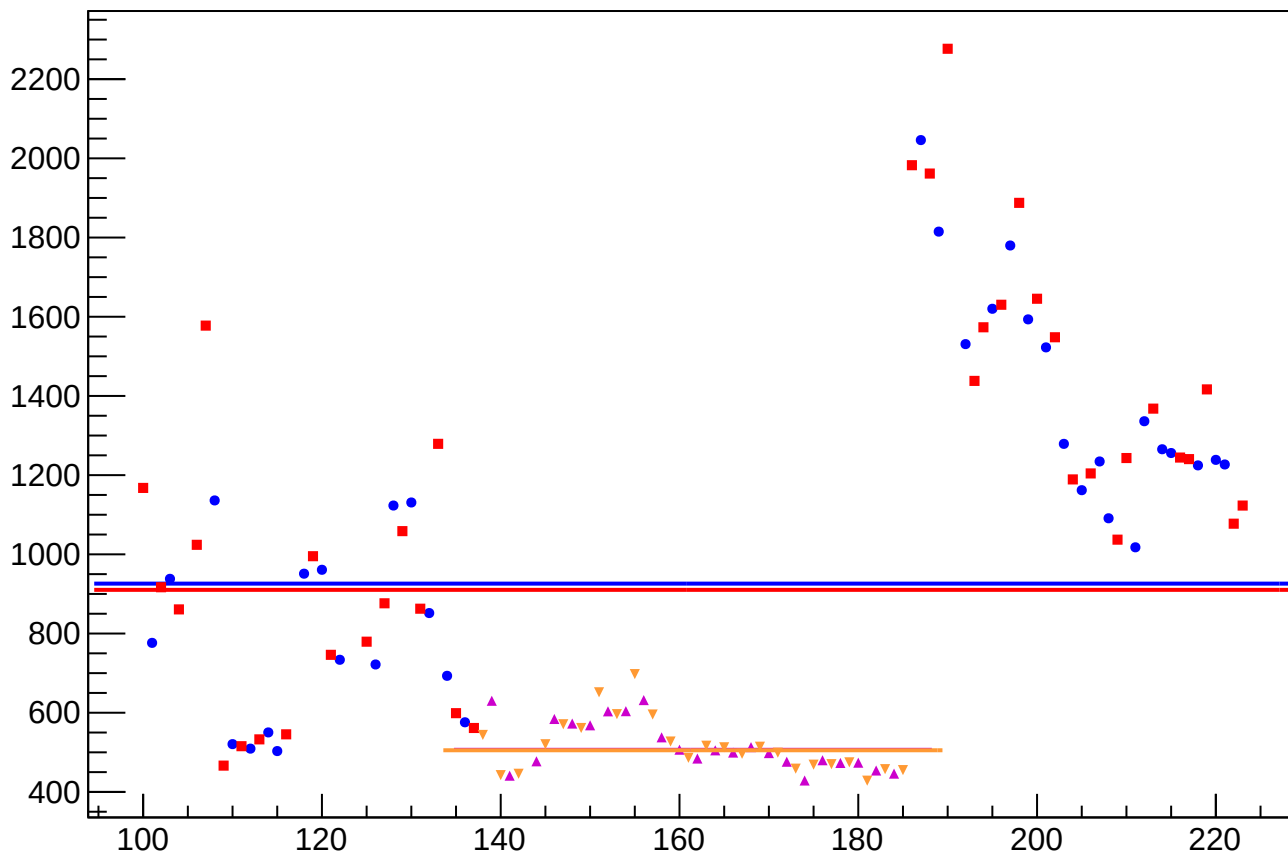
Right: 53.196 ± 156.949 $\chi^2/\text{NDF}: 128.4/70$

In: -154.791 ± 107.053 $\chi^2/\text{NDF}: 98.3/56$

Out: -167.084 ± 106.261 $\chi^2/\text{NDF}: 132.9/60$

All: -160.983 ± 75.417 $\chi^2/\text{NDF}: 231.2/117$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 926.052 $\pm$ 0.158 χ^2 /NDF: 5031075.2/33

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

Right Out: 910.297 $\pm$ 0.156 χ^2 /NDF: 6421367.8/36

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

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

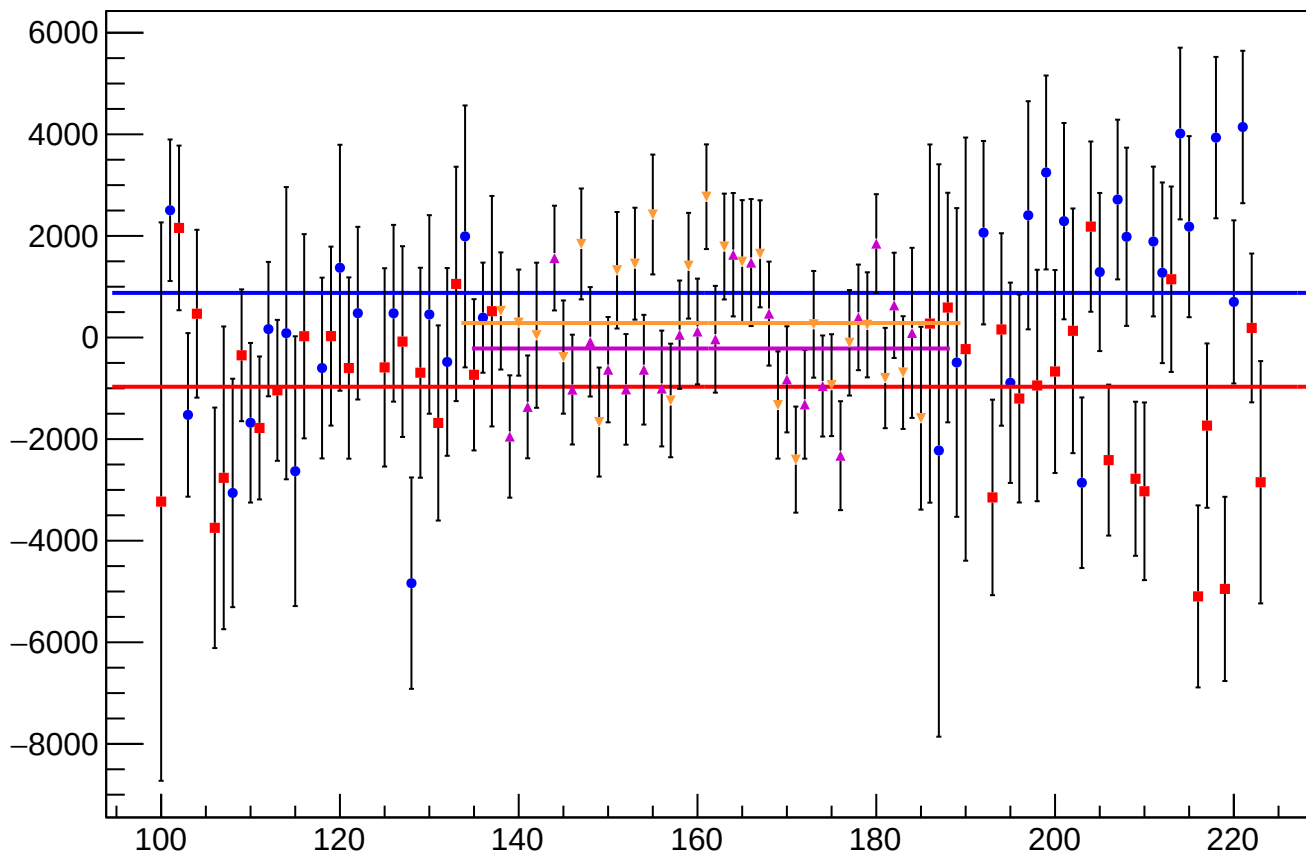
Right: 918.106 $\pm$ 0.111 χ^2 /NDF: 11457481.6/70

In: 603.152 $\pm$ 0.076 χ^2 /NDF: 10920502.4/56

Out: 598.873 $\pm$ 0.075 χ^2 /NDF: 12072935.5/60

All: 600.997 $\pm$ 0.053 χ^2 /NDF: 22995047.6/116

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 878.512 ± 302.904 $\chi^2/\text{NDF}: 44.8/33$

Left Out: 285.144 ± 224.378 $\chi^2/\text{NDF}: 38.3/23$

Right Out: -969.108 ± 305.632 $\chi^2/\text{NDF}: 31.9/36$

Left In: -216.121 ± 225.600 $\chi^2/\text{NDF}: 24.4/22$

Left: 35.874 ± 159.089 $\chi^2/\text{NDF}: 65.2/46$

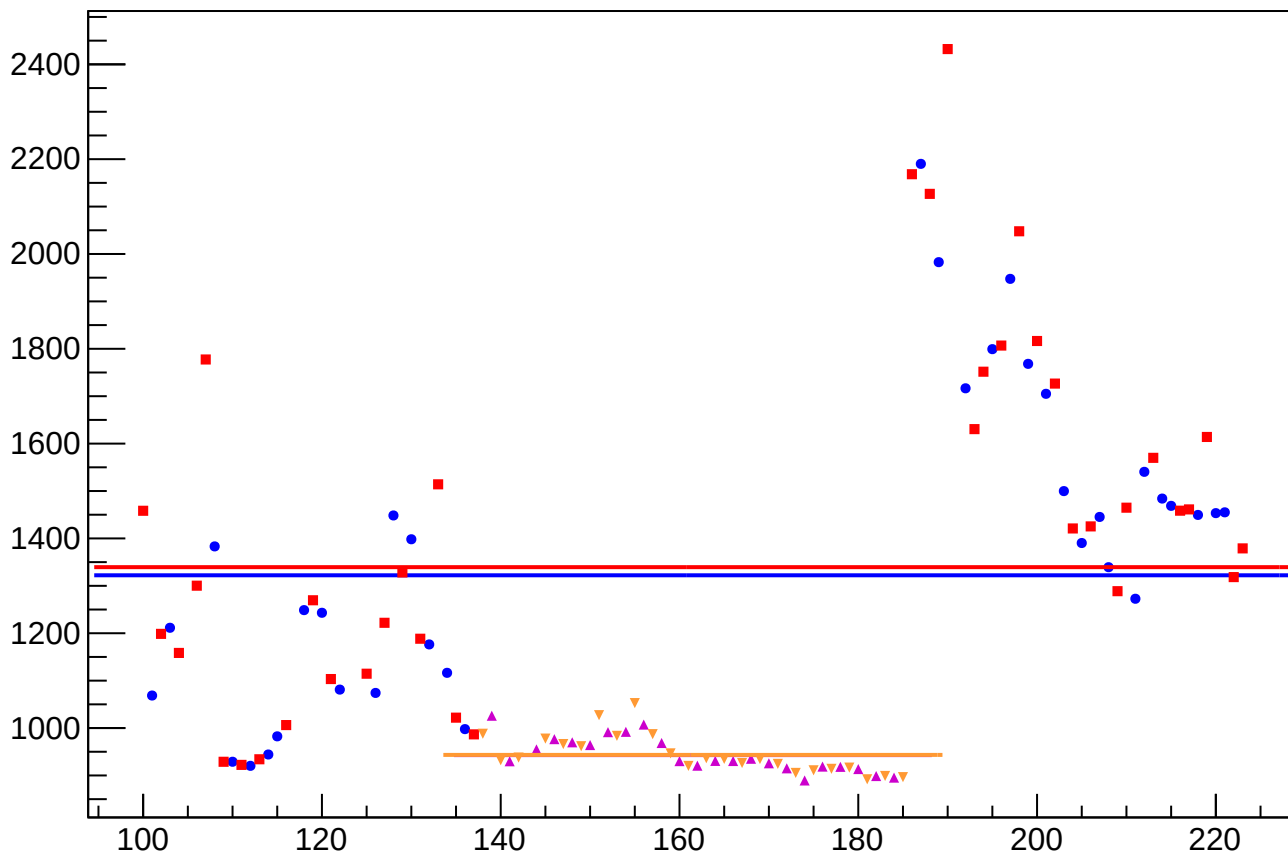
Right: -37.014 ± 215.143 $\chi^2/\text{NDF}: 95.2/70$

In: 174.439 ± 180.931 $\chi^2/\text{NDF}: 77.6/56$

Out: -154.111 ± 180.869 $\chi^2/\text{NDF}: 81.1/60$

All: 10.108 ± 127.916 $\chi^2/\text{NDF}: 160.4/117$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1322.240+/-0.214 χ^2/NDF : 1597644.7/33

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

Right Out: 1339.390+/-0.216 χ^2/NDF : 2138946.8/36

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

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

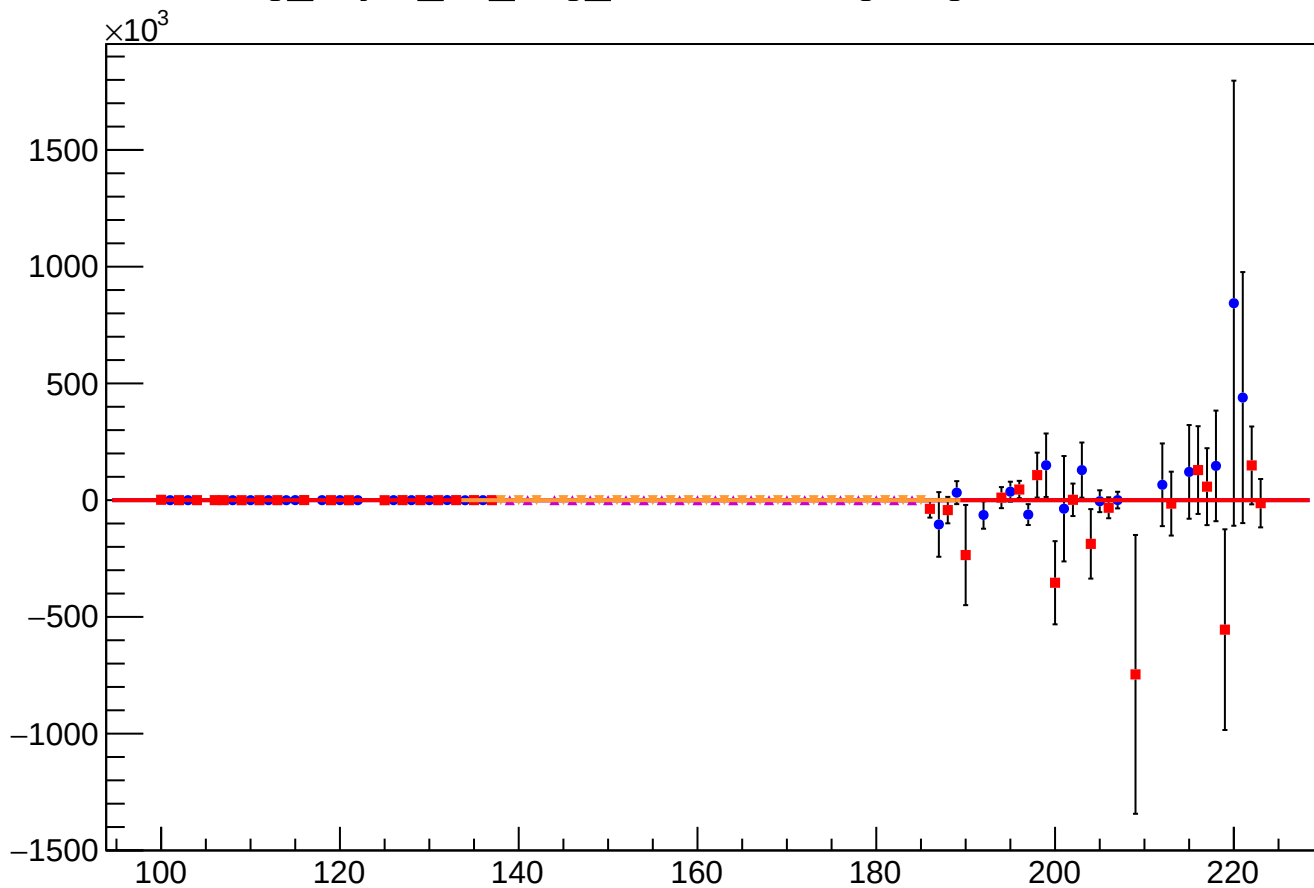
Right: 1330.738+/-0.152 χ^2/NDF : 3739768.4/70

In: 1078.264+/-0.128 χ^2/NDF : 3663331.2/56

Out: 1082.049+/-0.128 χ^2/NDF : 4381437.5/60

All: 1080.157+/-0.090 χ^2/NDF : 8045206.4/11

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.548 ± 30.032 χ^2/NDF : 25.5/30

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

Right Out: 31.730 ± 30.492 χ^2/NDF : 33.0/34

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

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

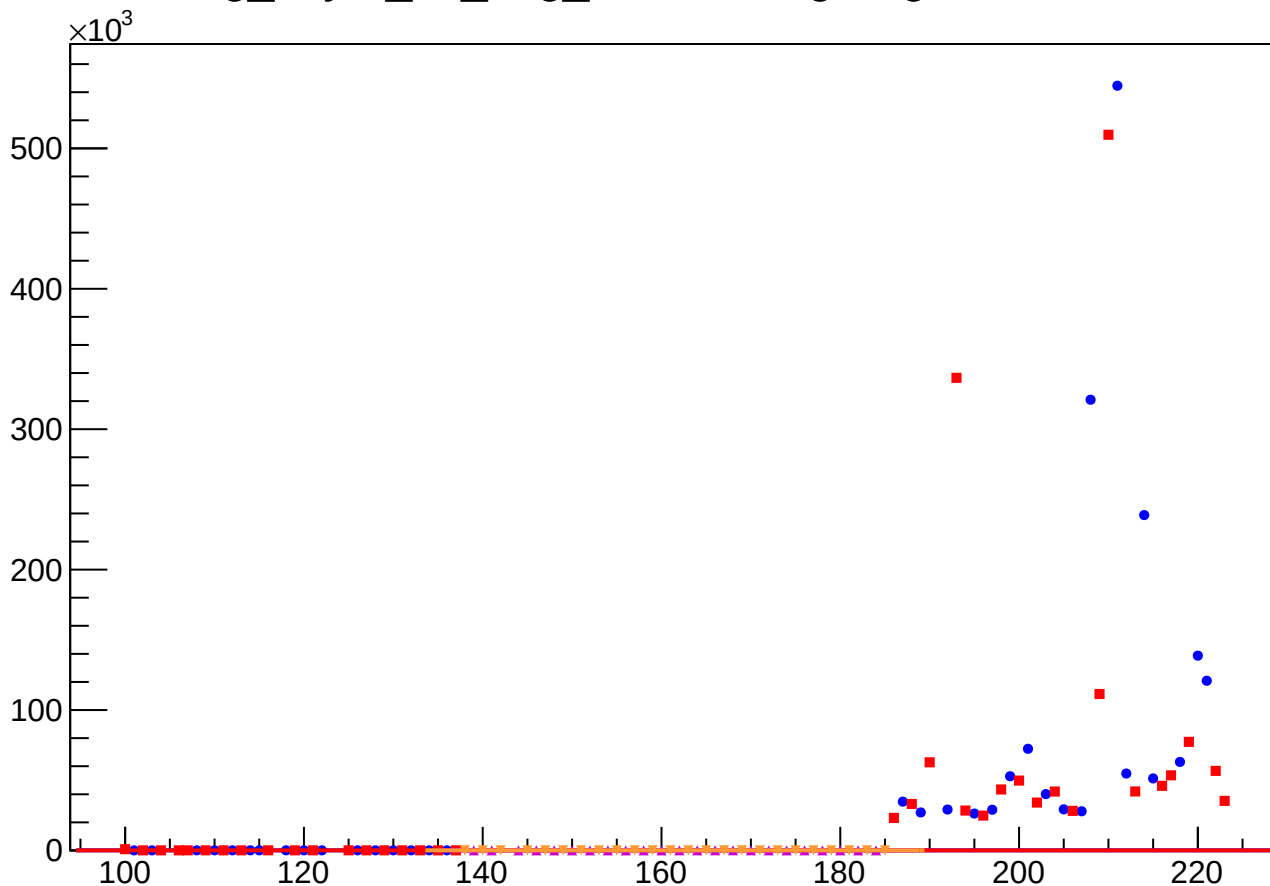
Right: 7.732 ± 21.397 χ^2/NDF : 59.8/65

In: -20.417 ± 17.527 χ^2/NDF : 48.1/53

Out: 12.996 ± 17.553 χ^2/NDF : 56.1/58

All: -3.735 ± 12.403 χ^2/NDF : 105.9/112

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.144 $\pm$ 0.021 χ^2 /NDF: 7120930.0/33

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

Right Out: 79.467 $\pm$ 0.022 χ^2 /NDF: 7147162.2/36

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

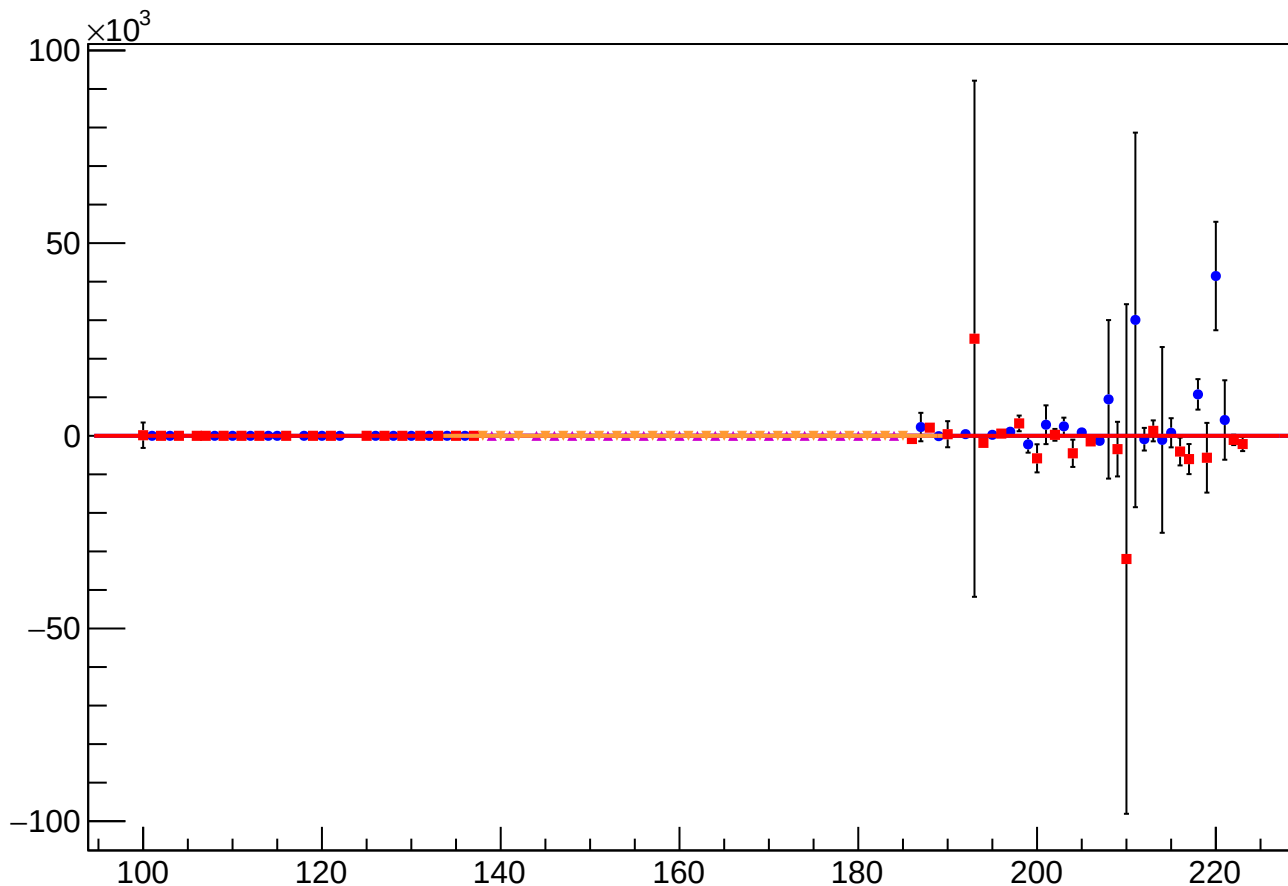
Right: 77.780 $\pm$ 0.015 χ^2 /NDF: 14280151.5/70

In: 85.014 $\pm$ 0.012 χ^2 /NDF: 7894019.5/56

Out: 86.304 $\pm$ 0.012 χ^2 /NDF: 7763813.2/60

All: 85.658 $\pm$ 0.009 χ^2 /NDF: 15663239.1/117

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 ± 0.502 χ^2/NDF : 47.8/33

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

Right Out: 0.037 ± 0.525 χ^2/NDF : 35.7/36

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

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

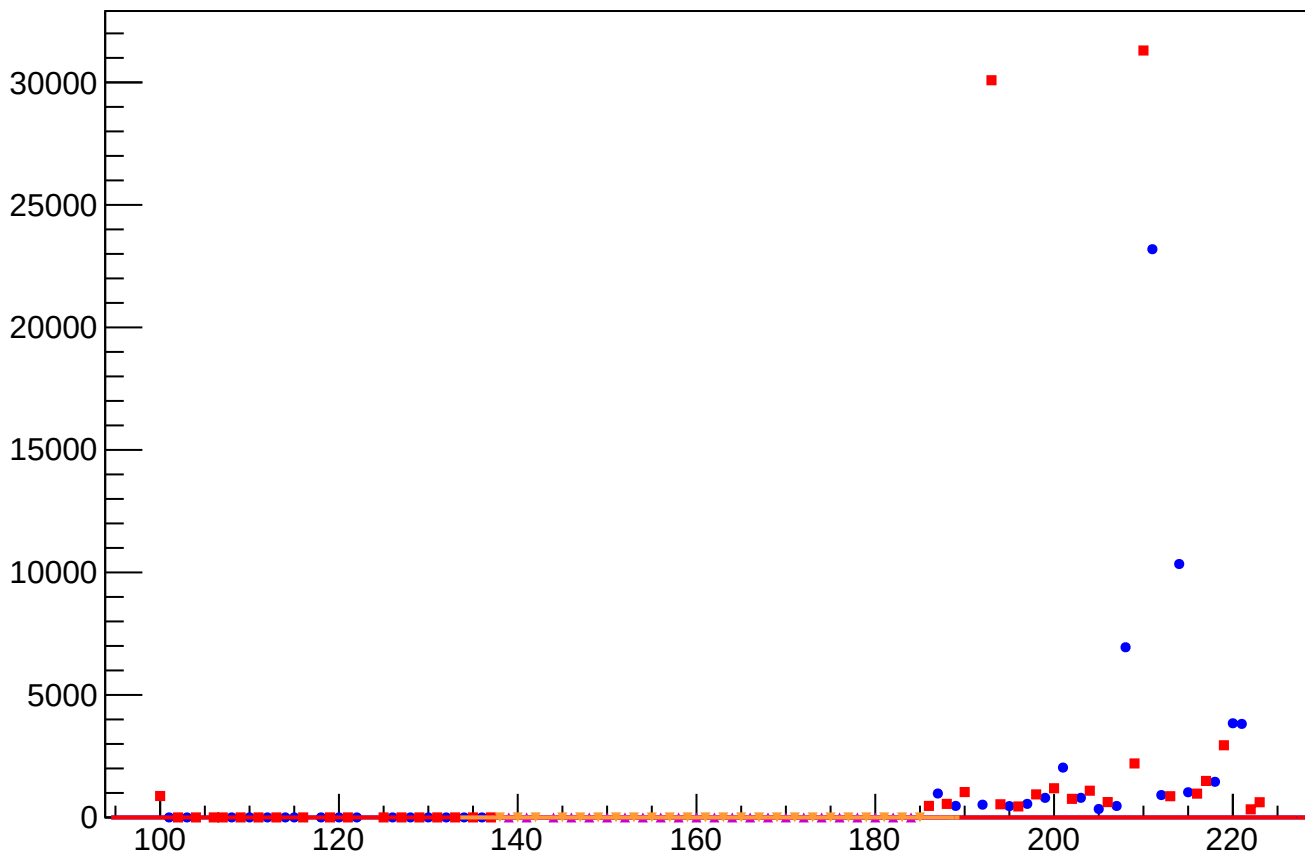
Right: -0.133 ± 0.363 χ^2/NDF : 83.8/70

In: -0.433 ± 0.306 χ^2/NDF : 74.3/56

Out: 0.096 ± 0.306 χ^2/NDF : 57.1/60

All: -0.168 ± 0.217 χ^2/NDF : 132.9/117

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 7412897.0/33

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

Right Out: 1.260+/-0.000 χ^2/NDF : 7814158.3/36

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

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

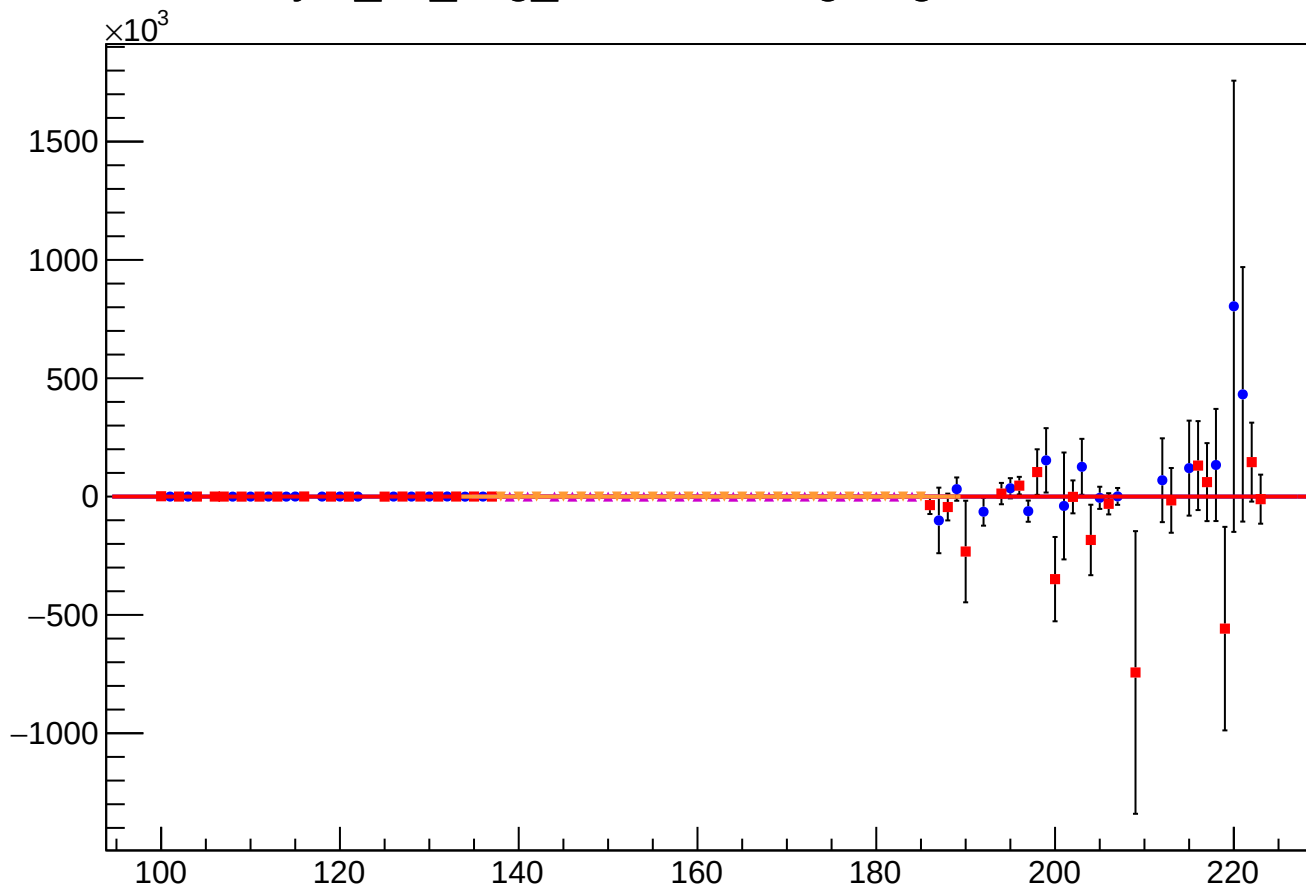
Right: 1.204+/-0.000 χ^2/NDF : 15270523.2/70

In: 1.341+/-0.000 χ^2/NDF : 8856781.8/56

Out: 1.358+/-0.000 χ^2/NDF : 8906553.6/60

All: 1.350+/-0.000 χ^2/NDF : 17766311.9/117

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.485 ± 30.040 χ^2/NDF : 25.6/30

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

Right Out: 32.011 ± 30.500 χ^2/NDF : 32.7/34

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

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

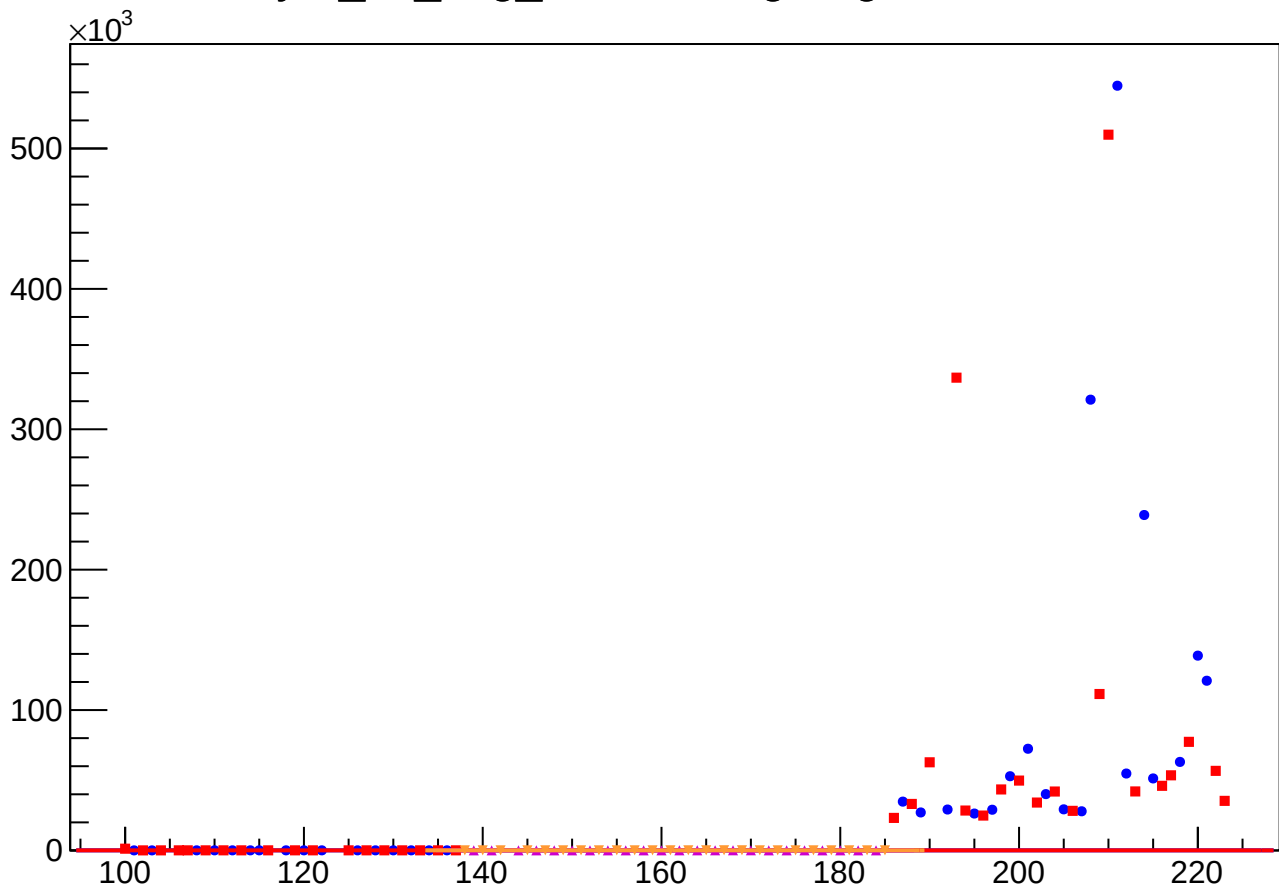
Right: 8.409 ± 21.402 χ^2/NDF : 59.5/65

In: -19.734 ± 17.532 χ^2/NDF : 47.9/53

Out: 12.947 ± 17.559 χ^2/NDF : 55.4/58

All: -3.418 ± 12.407 χ^2/NDF : 105.1/112

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.164 $\pm$ 0.021 χ^2 /NDF: 7121059.9/33

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

Right Out: 79.471 $\pm$ 0.022 χ^2 /NDF: 7153772.6/36

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

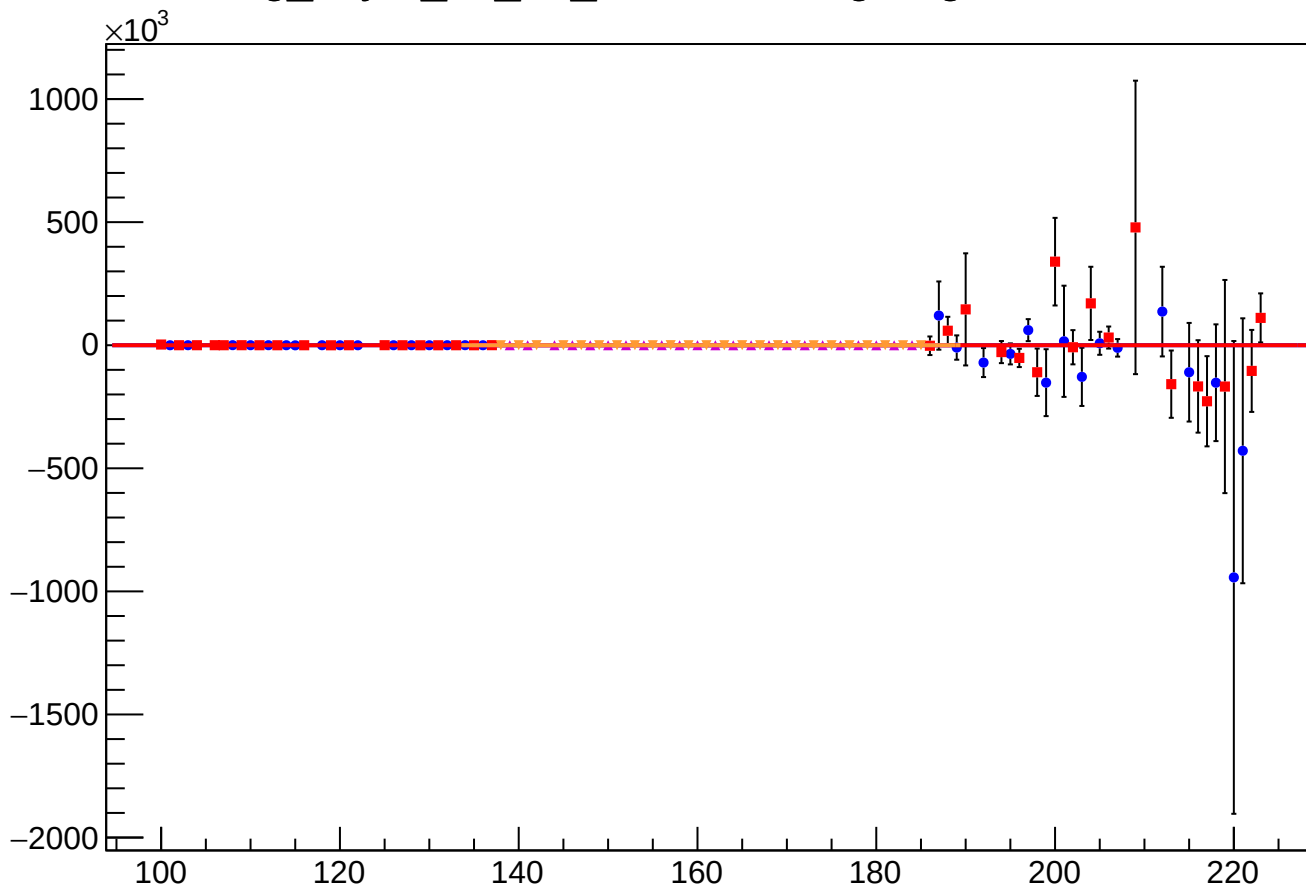
Right: 77.792 $\pm$ 0.015 χ^2 /NDF: 14286766.6/70

In: 85.038 $\pm$ 0.012 χ^2 /NDF: 7895152.2/56

Out: 86.322 $\pm$ 0.012 χ^2 /NDF: 7771766.4/60

All: 85.679 $\pm$ 0.009 χ^2 /NDF: 15672278.9/117

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.084 ± 30.012 $\chi^2/\text{NDF}: 24.2/30$

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

Right Out: -25.796 ± 30.473 $\chi^2/\text{NDF}: 29.5/34$

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

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

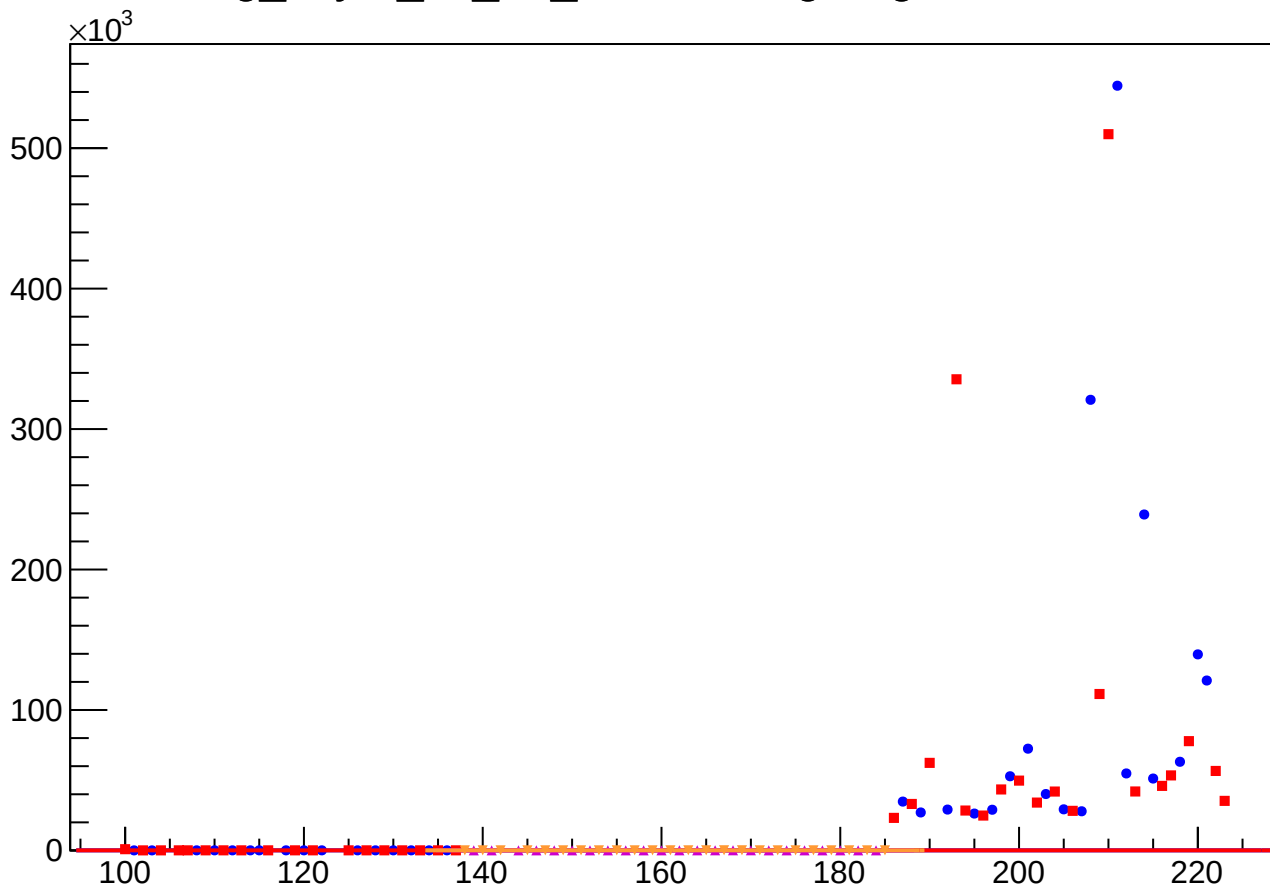
Right: -8.598 ± 21.383 $\chi^2/\text{NDF}: 54.3/65$

In: 31.370 ± 17.528 $\chi^2/\text{NDF}: 56.6/53$

Out: 1.648 ± 17.552 $\chi^2/\text{NDF}: 47.8/58$

All: 16.529 ± 12.403 $\chi^2/\text{NDF}: 105.9/112$

reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.094 $\pm$ 0.021 χ^2 /NDF: 7120798.2/33

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

Right Out: 79.419 $\pm$ 0.022 χ^2 /NDF: 7146372.6/36

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

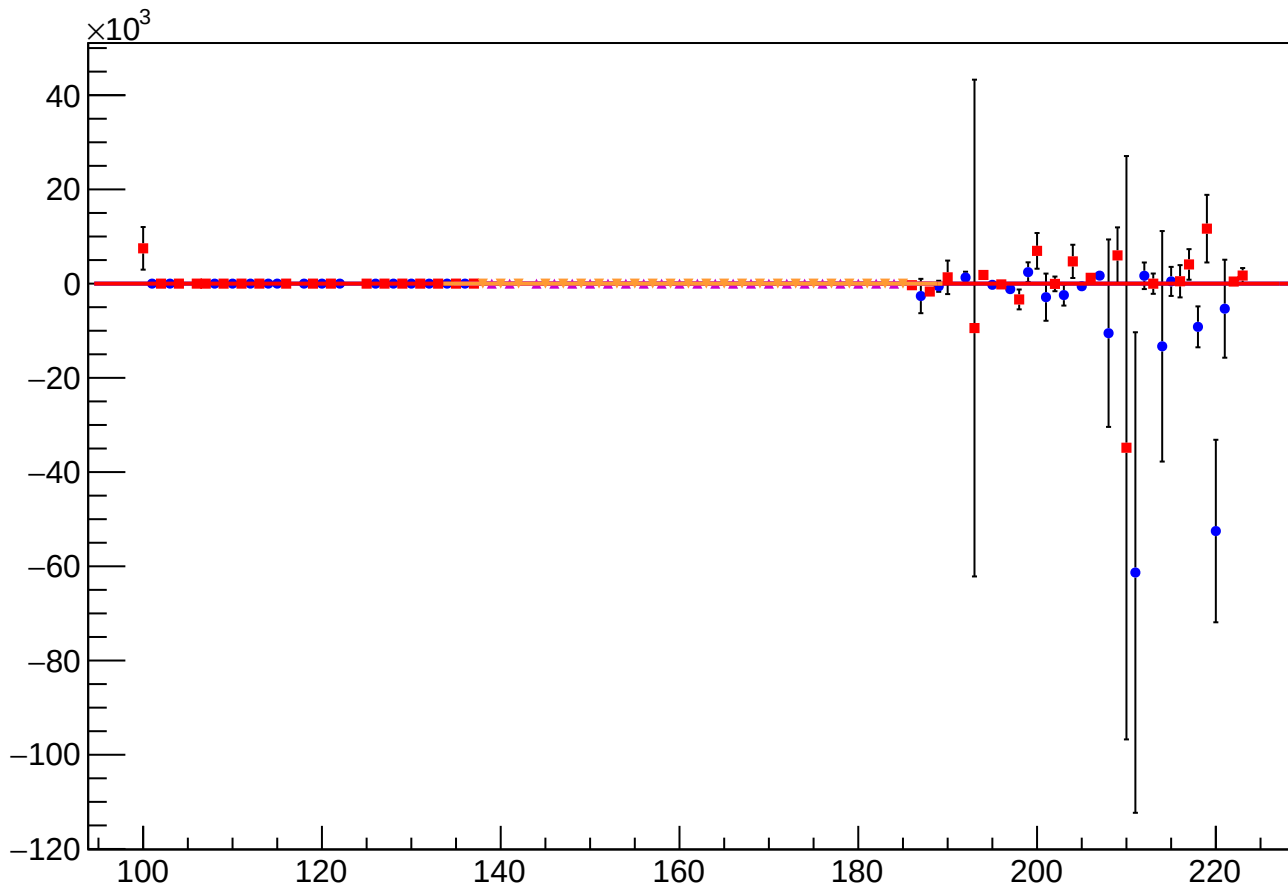
Right: 77.731 $\pm$ 0.015 χ^2 /NDF: 14279251.2/70

In: 85.012 $\pm$ 0.012 χ^2 /NDF: 7899795.6/56

Out: 86.297 $\pm$ 0.012 χ^2 /NDF: 7763962.0/60

All: 85.653 $\pm$ 0.009 χ^2 /NDF: 15669126.2/117

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 39.9/33$

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

Right Out: 0.349 ± 0.549 $\chi^2/\text{NDF}: 37.6/36$

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

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

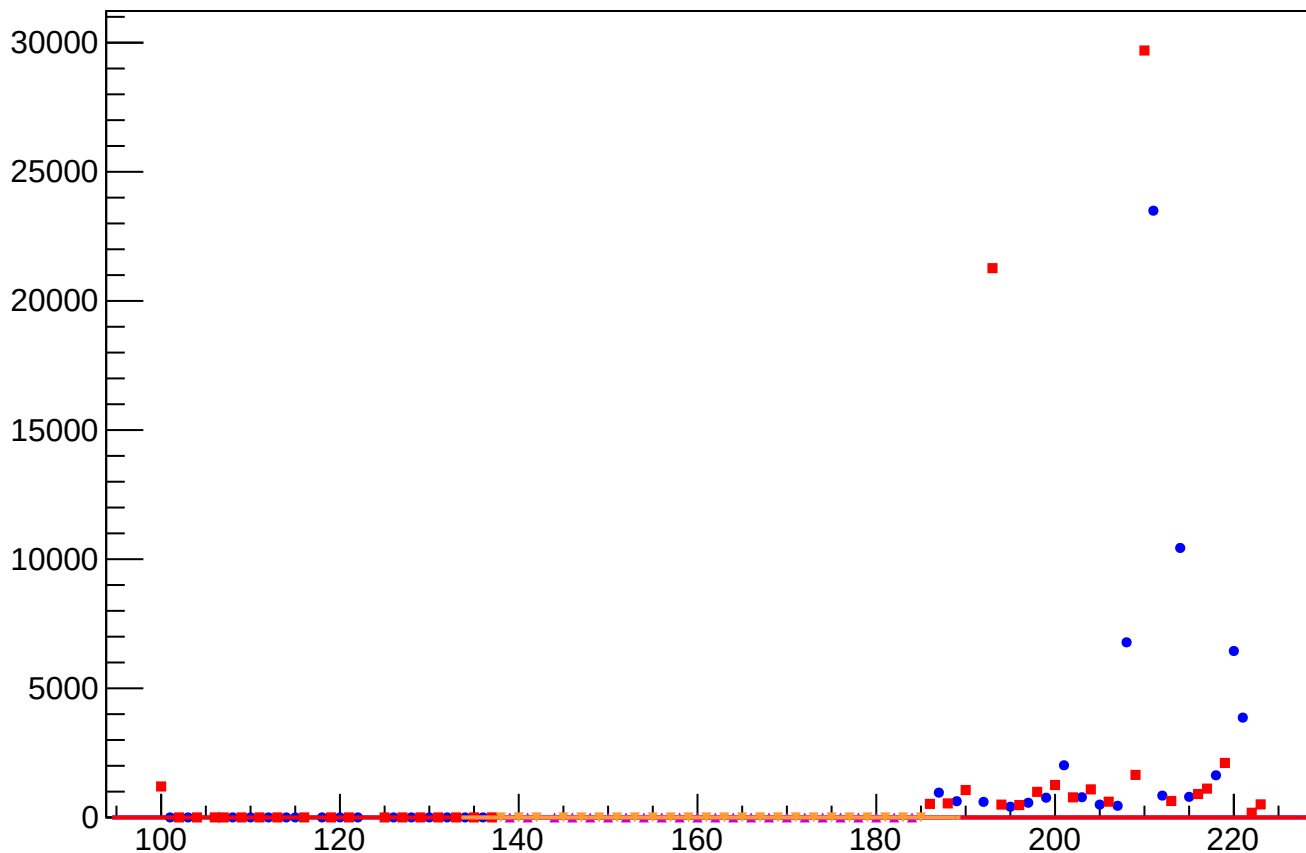
Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 78.0/70$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 62.4/56$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 60.0/60$

All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 123.6/117$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 7729060.8/33

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

Right Out: 1.317+/-0.000 χ^2/NDF : 7543908.6/36

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

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

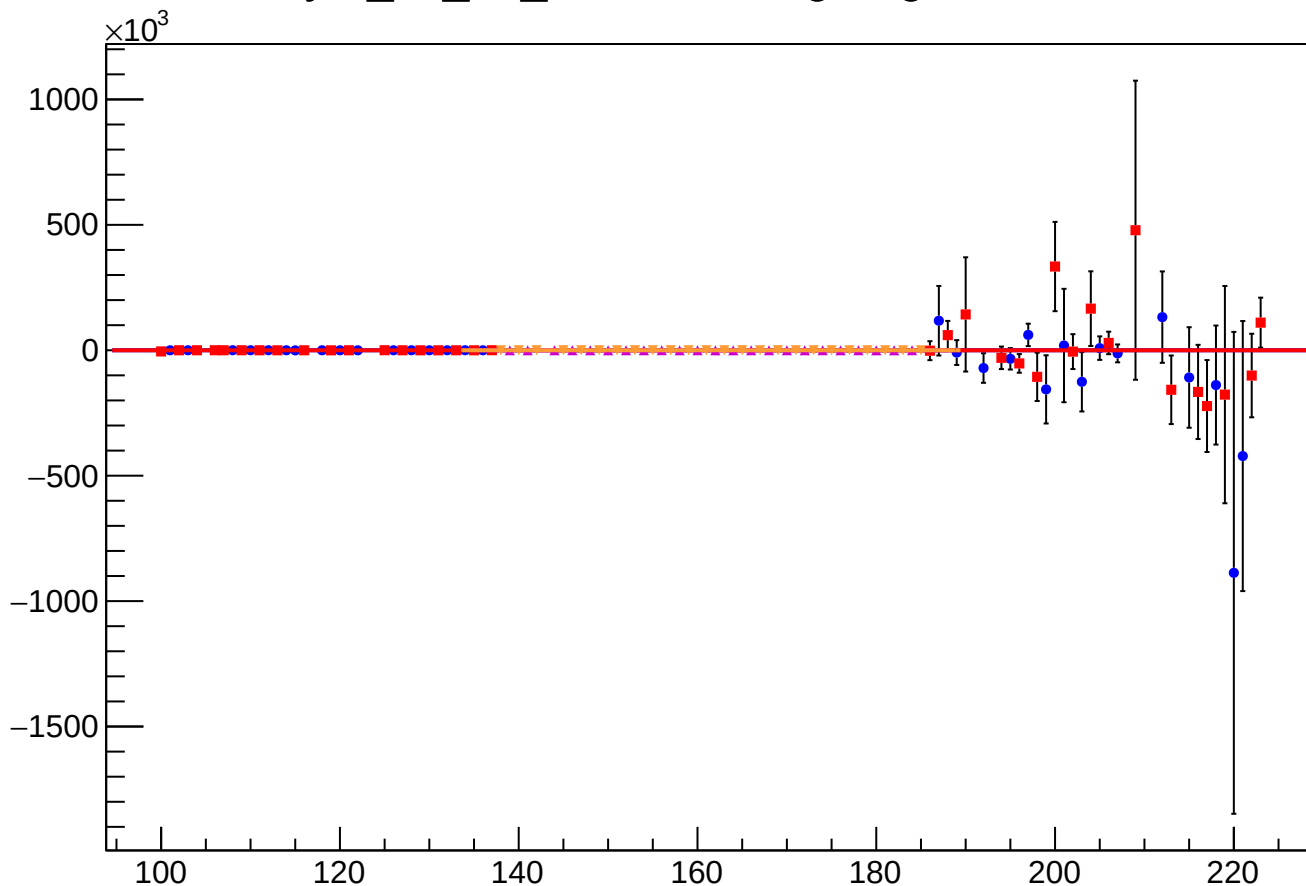
Right: 1.274+/-0.000 χ^2/NDF : 15296227.8/70

In: 1.382+/-0.000 χ^2/NDF : 9013932.5/56

Out: 1.419+/-0.000 χ^2/NDF : 8802518.0/60

All: 1.400+/-0.000 χ^2/NDF : 17830113.8/117

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.377 ± 30.020 χ^2/NDF : 23.9/30

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

Right Out: -26.406 ± 30.482 χ^2/NDF : 29.3/34

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

Left: 29.758 ± 15.231 χ^2/NDF : 49.0/46

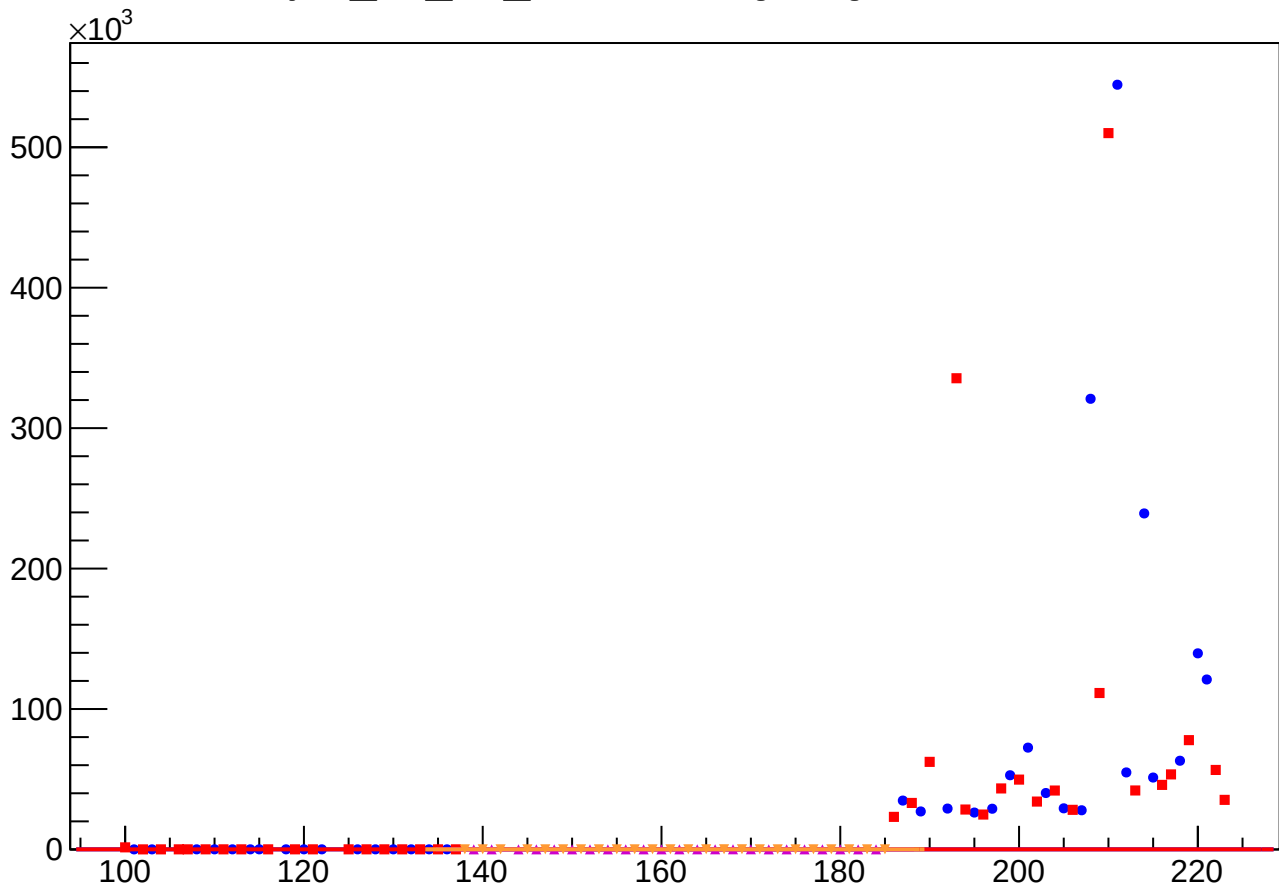
Right: -9.257 ± 21.389 χ^2/NDF : 53.8/65

In: 31.445 ± 17.533 χ^2/NDF : 55.9/53

Out: 1.776 ± 17.558 χ^2/NDF : 47.7/58

All: 16.631 ± 12.407 χ^2/NDF : 105.1/112

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.115 $\pm$ 0.021 χ^2 /NDF: 7120992.8/33

Left Out: 89.740 $\pm$ 0.015 χ^2 /NDF: 465842.6/23

Right Out: 79.415 $\pm$ 0.022 χ^2 /NDF: 7155665.5/36

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

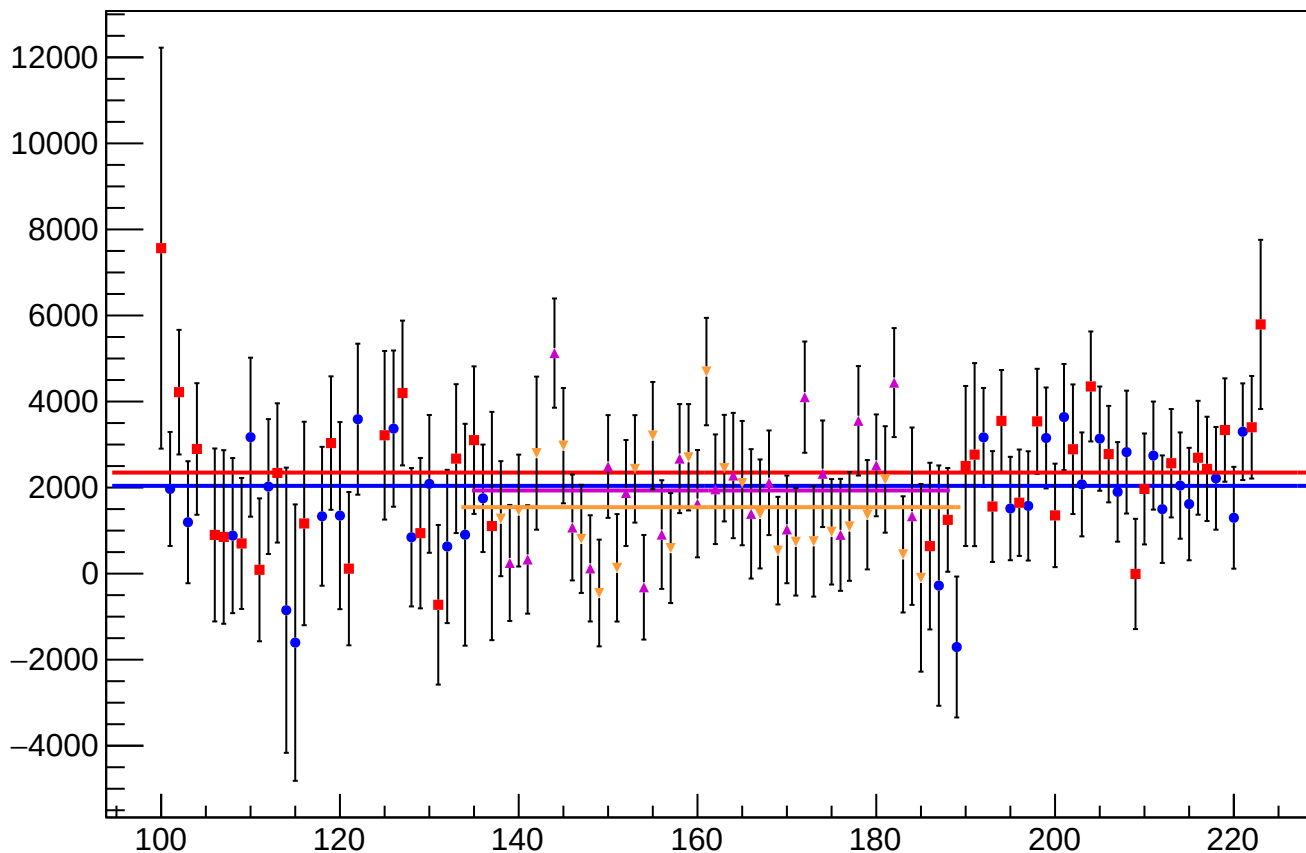
Right: 77.740 $\pm$ 0.015 χ^2 /NDF: 14288559.0/70

In: 85.036 $\pm$ 0.012 χ^2 /NDF: 7900892.5/56

Out: 86.314 $\pm$ 0.012 χ^2 /NDF: 7774825.9/60

All: 85.674 $\pm$ 0.009 χ^2 /NDF: 15681024.0/117

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 2040.058 $\pm$ 245.059 χ^2 /NDF: 19.4/33

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

Right Out: 2348.653 $\pm$ 242.755 χ^2 /NDF: 30.2/37

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

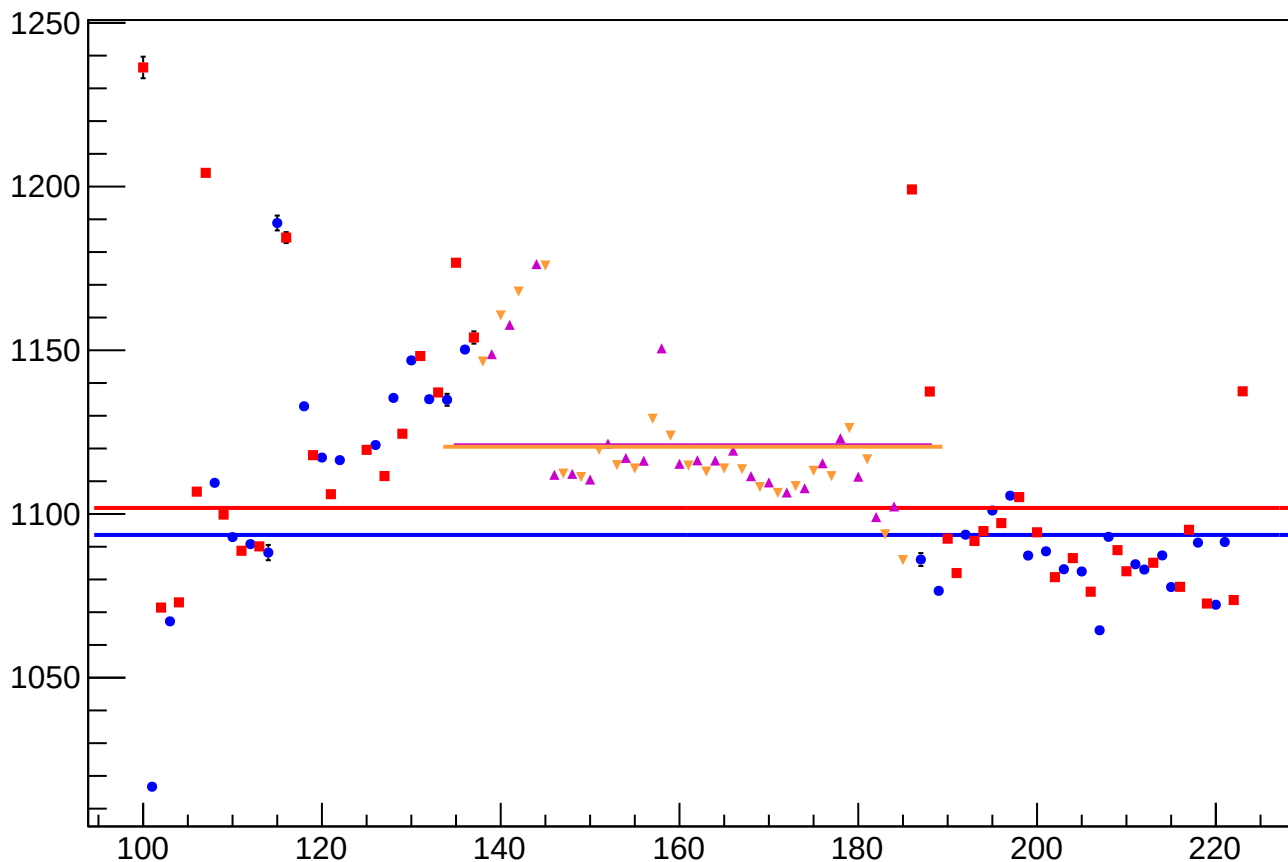
Right: 2195.813 $\pm$ 172.462 χ^2 /NDF: 50.5/71

In: 1991.307 $\pm$ 180.852 χ^2 /NDF: 46.5/56

Out: 1983.465 $\pm$ 179.392 χ^2 /NDF: 55.2/61

All: 1987.355 $\pm$ 127.362 χ^2 /NDF: 101.7/118

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1093.601 $\pm$ 0.173 χ^2 /NDF: 24276.4/33

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

Right Out: 1101.850 $\pm$ 0.172 χ^2 /NDF: 32279.8/37

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

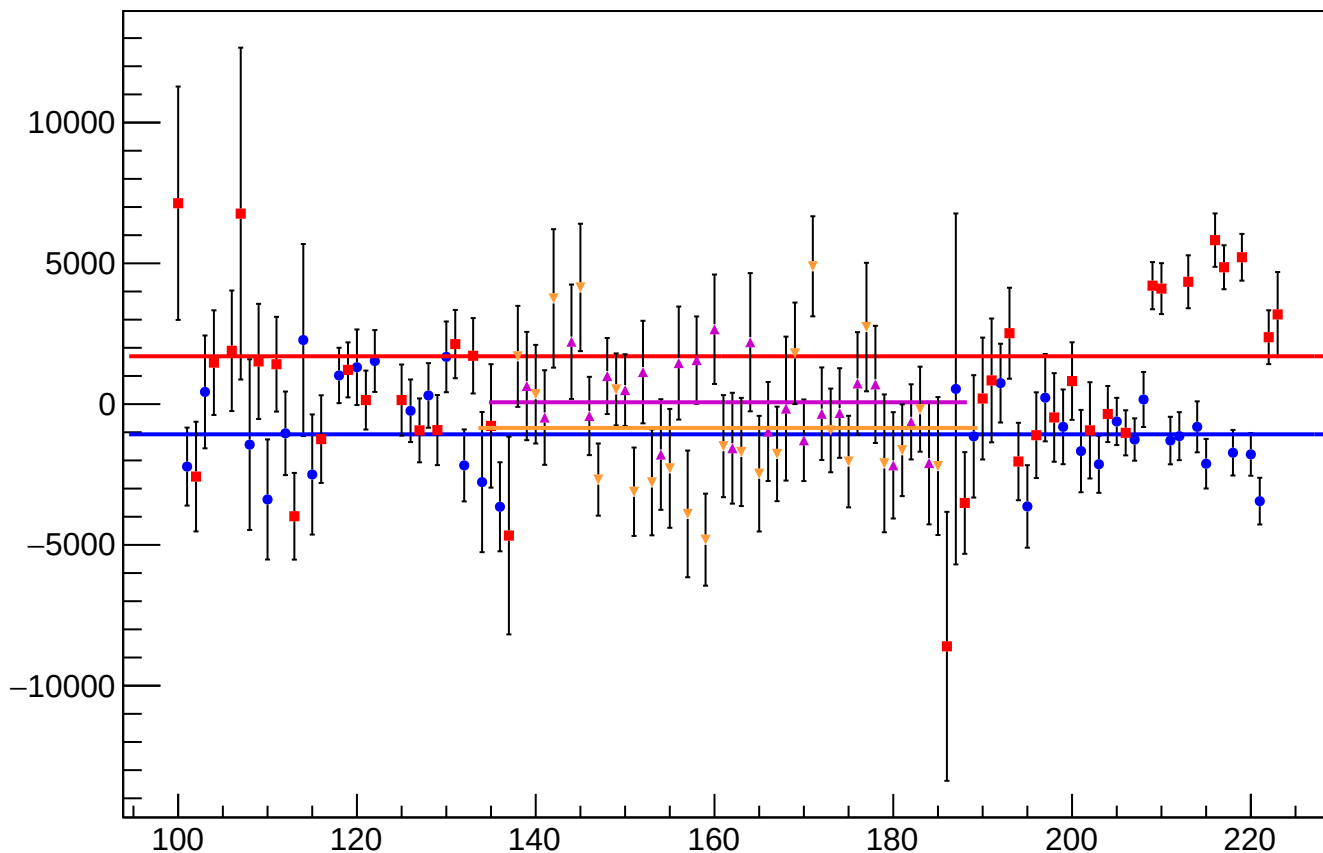
Right: 1097.765 $\pm$ 0.122 χ^2 /NDF: 57700.1/71

In: 1106.073 $\pm$ 0.128 χ^2 /NDF:45295.2/56

Out: 1110.335 $\pm$ 0.127 χ^2 /NDF:47915.2/61

All: 1108.221 $\pm$ 0.090 χ^2 /NDF: 93770.2/118

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -1072.544 ± 197.918 $\chi^2/\text{NDF}: 47.9/33$

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

Right Out: 1699.372 ± 207.194 $\chi^2/\text{NDF}: 166.8/37$

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

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

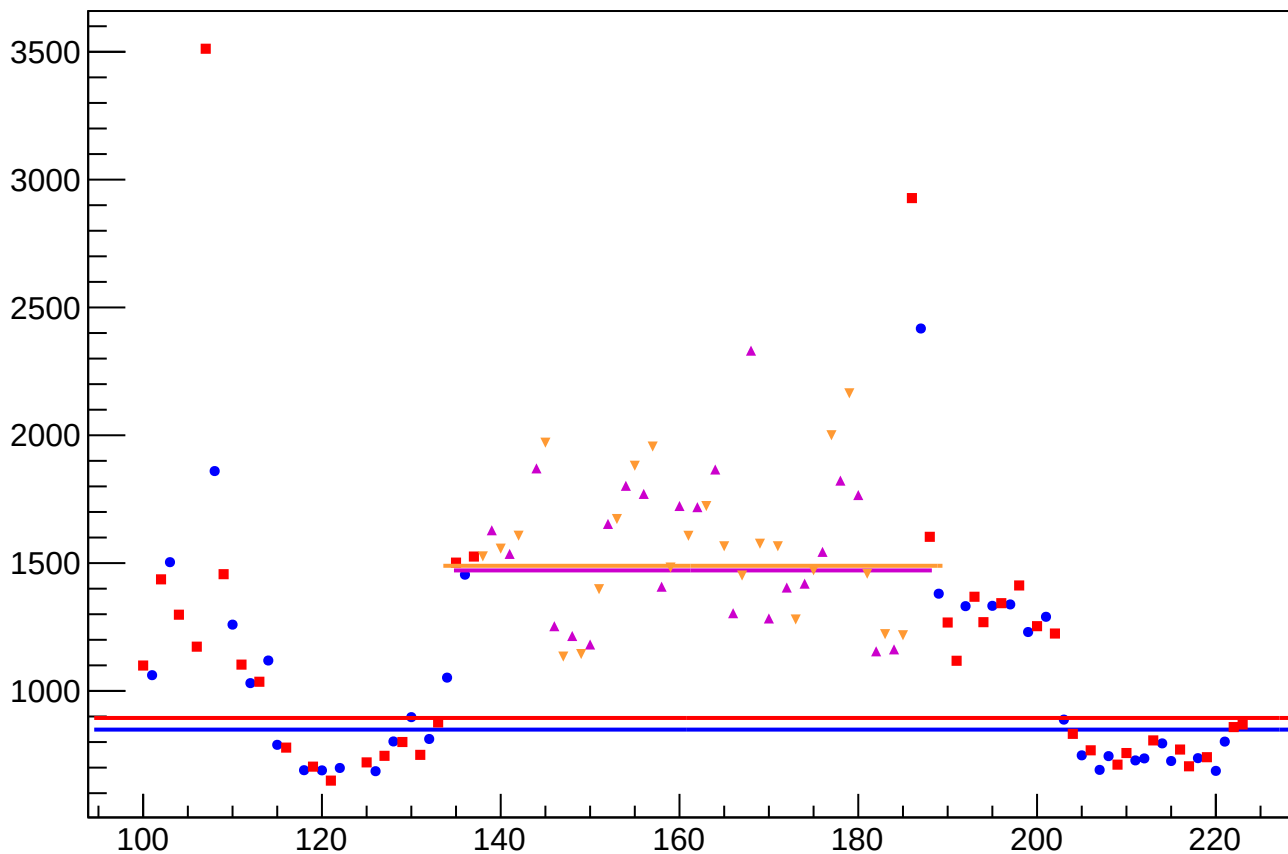
Right: 249.973 ± 143.116 $\chi^2/\text{NDF}: 308.2/71$

In: -806.978 ± 173.299 $\chi^2/\text{NDF}: 67.7/56$

Out: 1069.274 ± 179.717 $\chi^2/\text{NDF}: 247.3/61$

All: 97.047 ± 124.748 $\chi^2/\text{NDF}: 371.5/118$

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 848.701 $\pm$ 0.140 χ^2 /NDF: 2725971.0/33

Left Out: 1489.507 $\pm$ 0.255 χ^2 /NDF:1009228.3/23

Right Out: 894.256 $\pm$ 0.147 χ^2 /NDF: 3521480.2/37

Left In: 1471.394 $\pm$ 0.254 χ^2 /NDF:1105310.5/22

Left: 1480.391 $\pm$ 0.180 χ^2 /NDF: 2117070.9/46

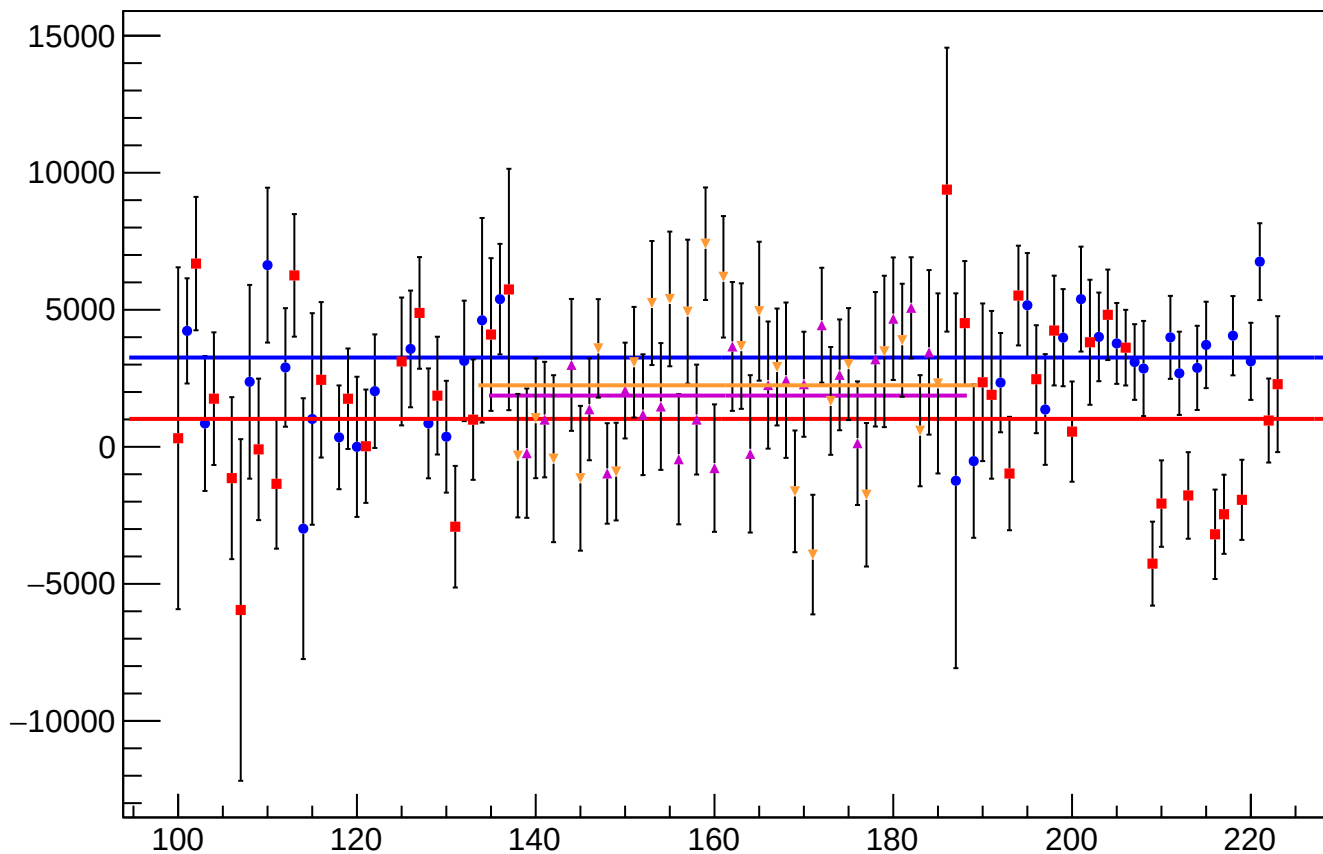
Right: 870.436 $\pm$ 0.101 χ^2 /NDF: 6298004.4/71

In: 993.978 $\pm$ 0.123 χ^2 /NDF:8450097.9/56

Out: 1041.666 $\pm$ 0.127 χ^2 /NDF:8618617.4/61

All: 1016.955 $\pm$ 0.088 χ^2 /NDF: 17141684.5/122

asym_usl_mean vs Slug, Sign Corrected



Right In: 3258.072 $\pm$ 327.589 χ^2 /NDF: 27.1/33

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

Right Out: 1019.481 $\pm$ 334.238 χ^2 /NDF: 86.3/37

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

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

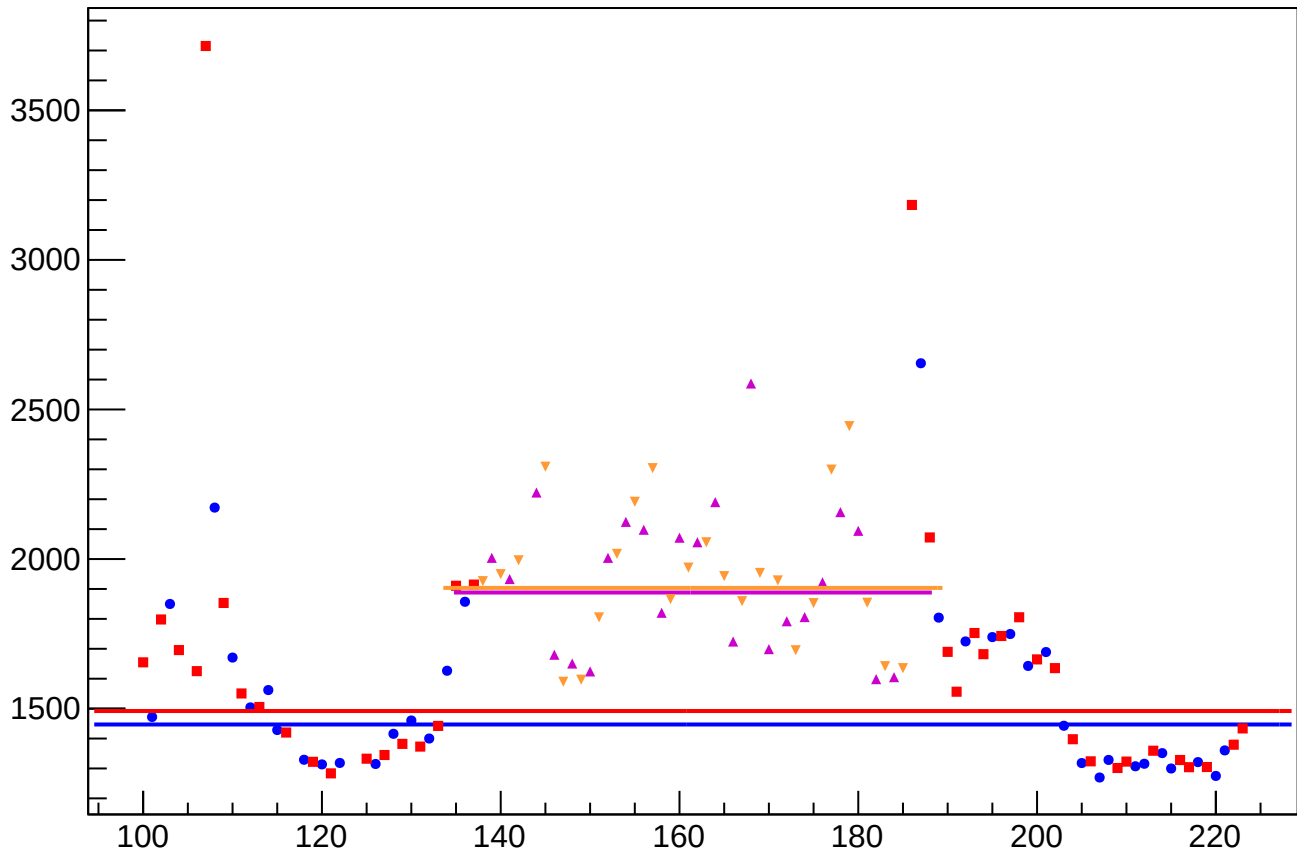
Right: 2161.264 $\pm$ 233.956 χ^2 /NDF: 136.3/71

In: 2784.755 $\pm$ 265.945 χ^2 /NDF:48.1/56

Out: 1447.005 $\pm$ 269.675 χ^2 /NDF:129.5/61

All: 2125.194 $\pm$ 189.357 χ^2 /NDF: 190.1/118

asym_usl_rms vs Slug, Sign Corrected



Right In: 1446.981 $\pm$ 0.232 χ^2 /NDF: 728198.3/33

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

Right Out: 1492.012 $\pm$ 0.236 χ^2 /NDF: 1198948.9/37

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

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

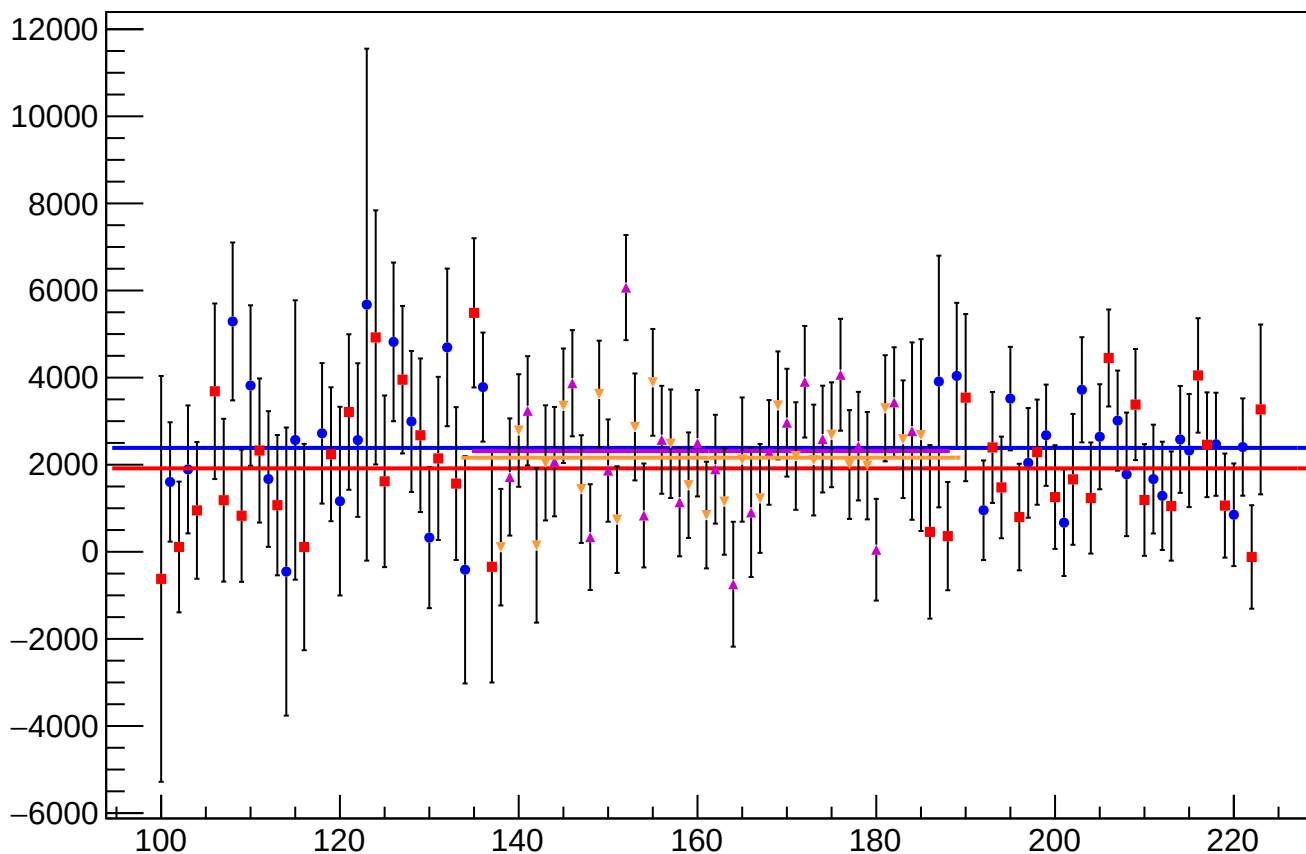
Right: 1469.044 $\pm$ 0.165 χ^2 /NDF: 1945662.7/71

In: 1597.383 $\pm$ 0.188 χ^2 /NDF: 2469281.1/56

Out: 1635.657 $\pm$ 0.191 χ^2 /NDF: 2719141.2/61

All: 1616.253 $\pm$ 0.134 χ^2 /NDF: 5208845.9/11

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2385.700+/-244.802 χ^2/NDF : 23.2/34

Left Out: 2161.427+/-257.518 χ^2/NDF : 15.1/24

Right Out: 1916.025+/-243.195 χ^2/NDF : 31.6/37

Left In: 2313.505+/-264.429 χ^2/NDF : 31.3/22

Left: 2235.453+/-184.488 χ^2/NDF : 46.5/47

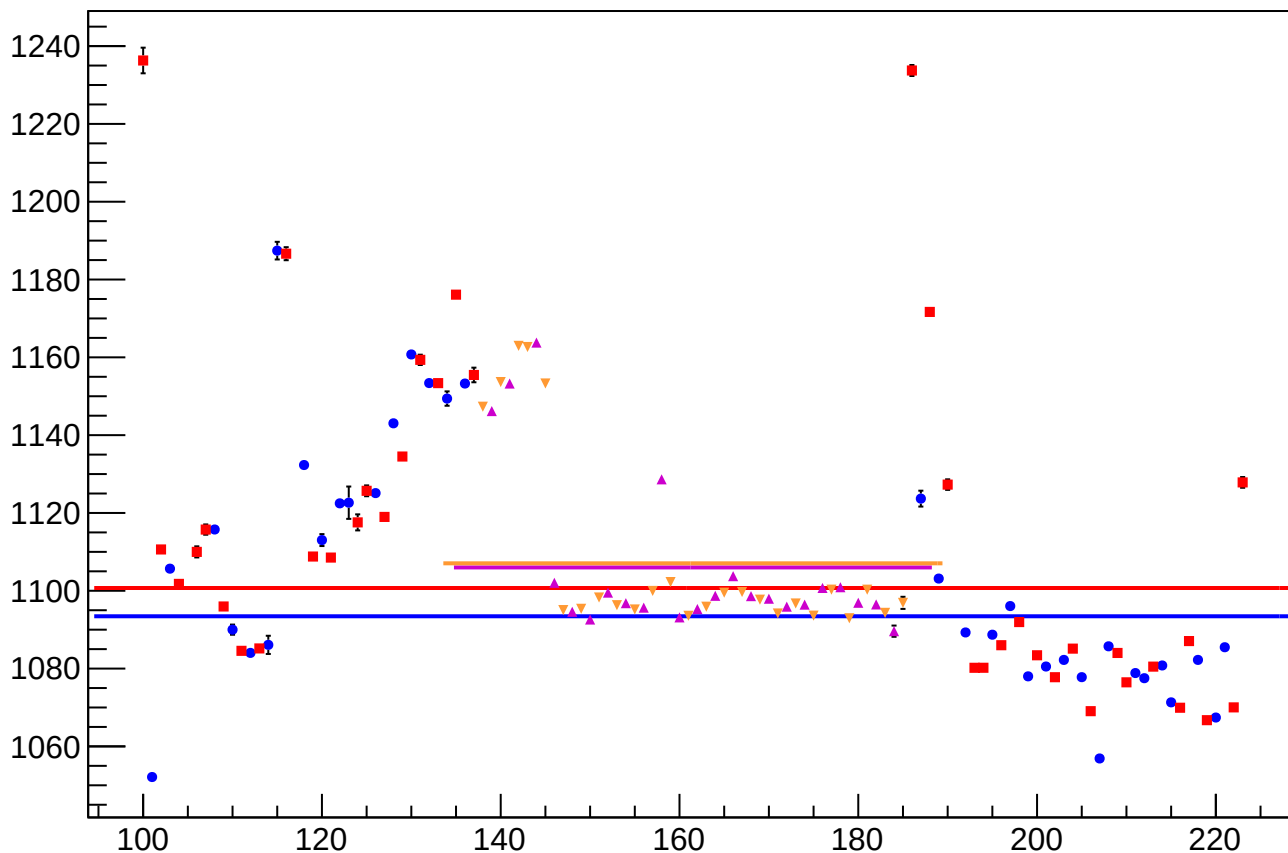
Right: 2149.316+/-172.530 χ^2/NDF : 56.7/72

In: 2352.381+/-179.639 χ^2/NDF : 54.5/57

Out: 2031.712+/-176.811 χ^2/NDF : 47.2/62

All: 2189.502+/-126.013 χ^2/NDF : 103.3/120

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1093.445 $\pm$ 0.173 χ^2 /NDF: 25756.9/34

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

Right Out: 1100.712 $\pm$ 0.172 χ^2 /NDF: 41327.0/37

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

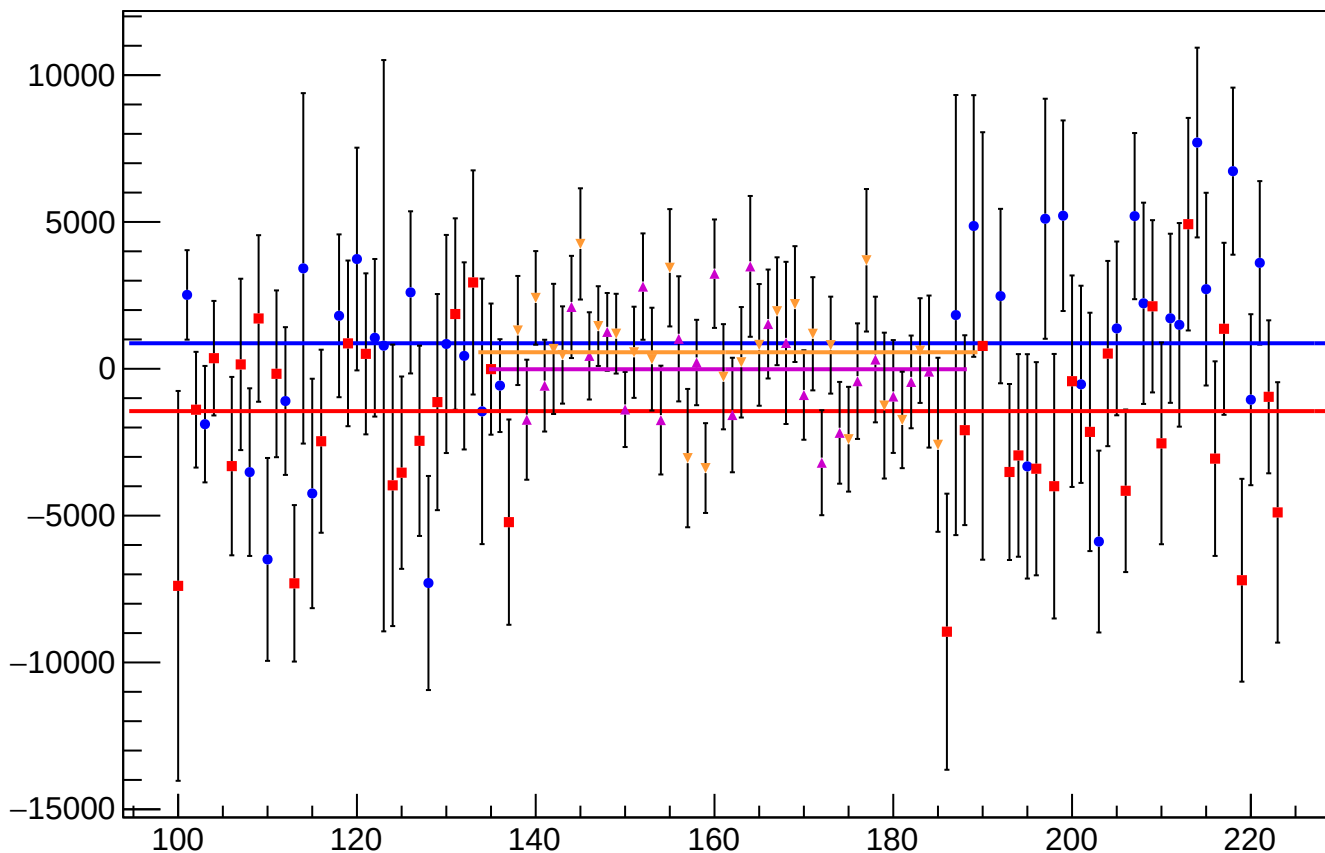
Right: 1097.102 $\pm$ 0.122 χ^2 /NDF: 67970.9/72

In: 1099.238 $\pm$ 0.127 χ^2 /NDF:39734.8/57

Out: 1103.703 $\pm$ 0.125 χ^2 /NDF:57144.4/62

All: 1101.506 $\pm$ 0.089 χ^2 /NDF: 97506.9/120

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 869.327 $\pm$ 499.707 χ^2/NDF : 42.9/34

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

Right Out: -1441.538 $\pm$ 507.187 χ^2/NDF : 29.3/37

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

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

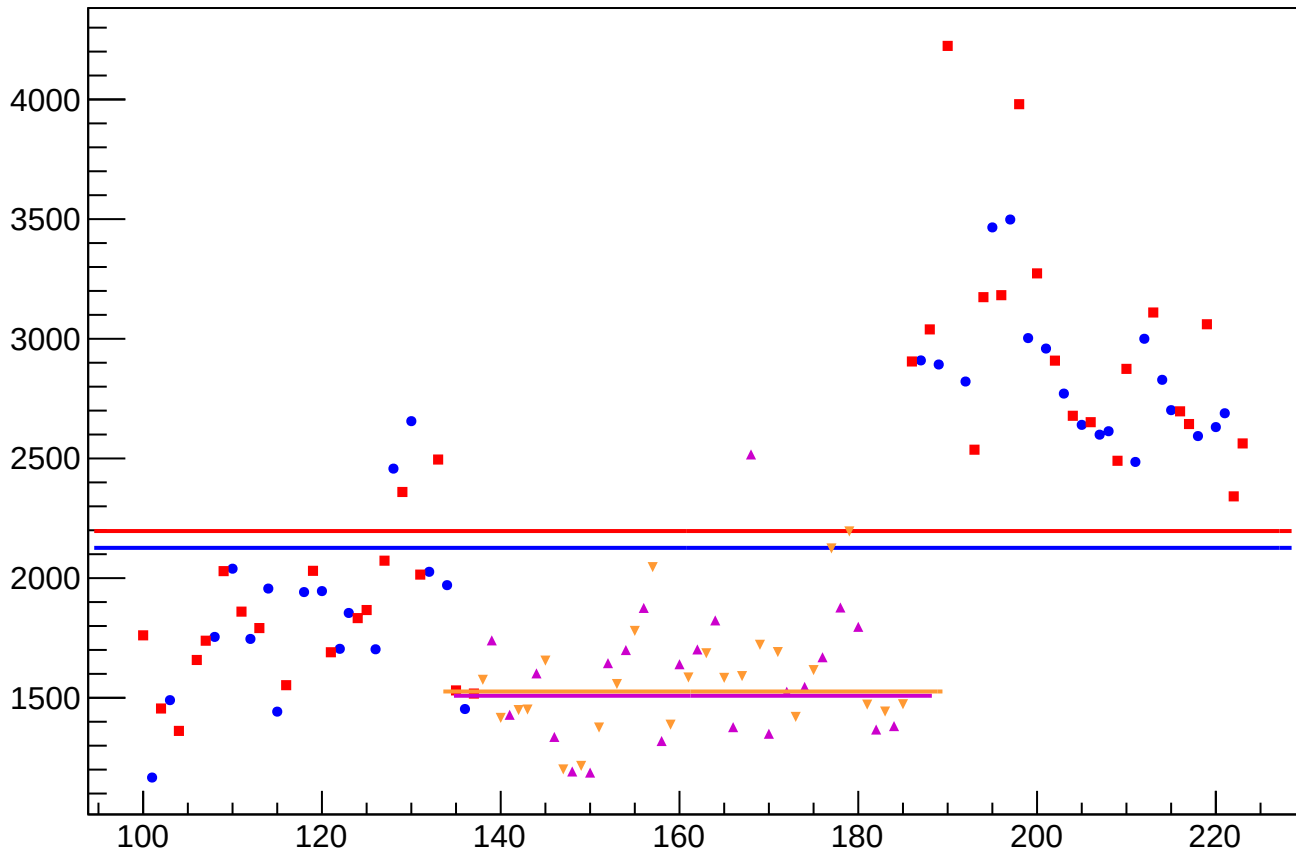
Right: -268.940 $\pm$ 355.961 χ^2/NDF : 82.8/72

In: 294.363 $\pm$ 295.720 χ^2/NDF :65.1/57

Out: -110.615 $\pm$ 294.054 χ^2/NDF :66.4/62

All: 90.730 $\pm$ 208.514 χ^2/NDF : 132.5/120

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 2126.498 $\pm$ 0.353 χ^2 /NDF: 3363032.6/34

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

Right Out: 2196.761 $\pm$ 0.359 χ^2 /NDF: 3110246.4/37

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

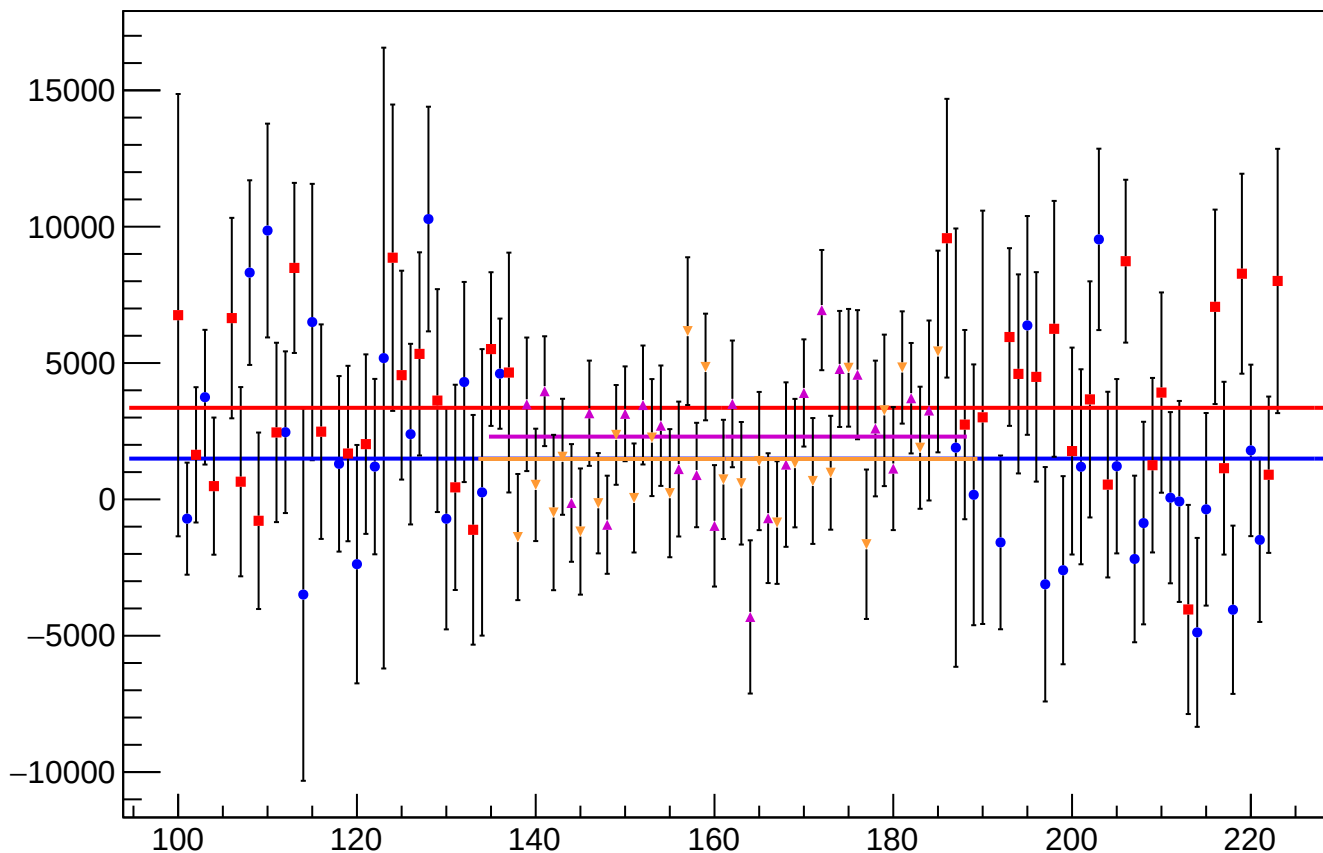
Right: 2161.108 $\pm$ 0.252 χ^2 /NDF: 6492756.1/72

In: 1724.982 $\pm$ 0.209 χ^2 /NDF: 6281872.4/57

Out: 1751.728 $\pm$ 0.208 χ^2 /NDF: 6183493.7/62

All: 1738.431 $\pm$ 0.147 χ^2 /NDF: 12473592.7/131

asym_usr_mean vs Slug, Sign Corrected



Right In: 1495.104+/-576.730 χ^2/NDF : 42.1/34

Left Out: 1482.365+/-449.983 χ^2/NDF : 20.9/24

Right Out: 3357.720+/-579.971 χ^2/NDF : 28.1/37

Left In: 2301.247+/-459.040 χ^2/NDF : 24.8/22

Left: 1883.648+/-321.340 χ^2/NDF : 47.4/47

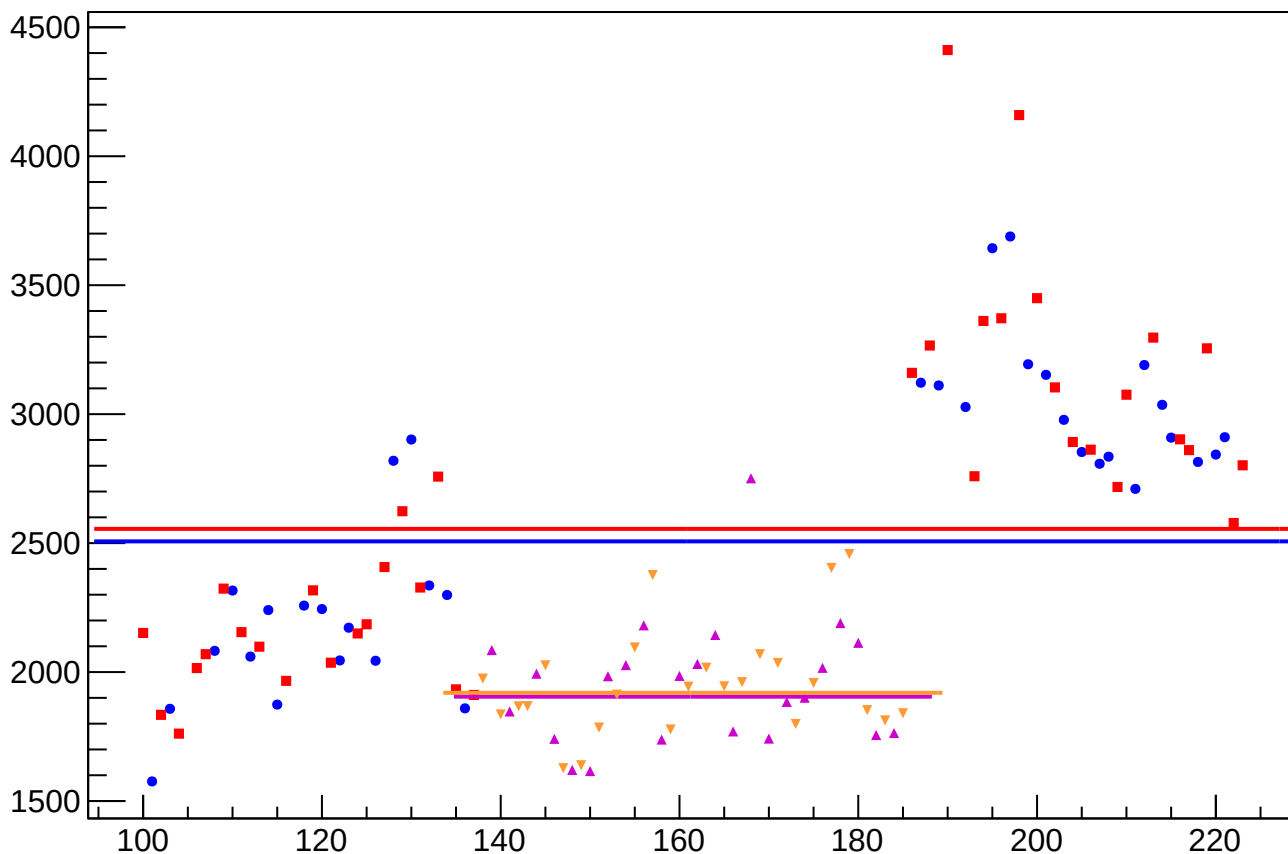
Right: 2421.194+/-408.951 χ^2/NDF : 75.3/72

In: 1988.607+/-359.161 χ^2/NDF : 68.1/57

Out: 2187.070+/-355.523 χ^2/NDF : 55.5/62

All: 2088.849+/-252.669 χ^2/NDF : 123.8/120

asym_usr_rms vs Slug, Sign Corrected



Right In: 2506.765+/-0.408 χ^2/NDF : 1889748.4/34

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

Right Out: 2555.278+/-0.410 χ^2/NDF : 1910485.9/37

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

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

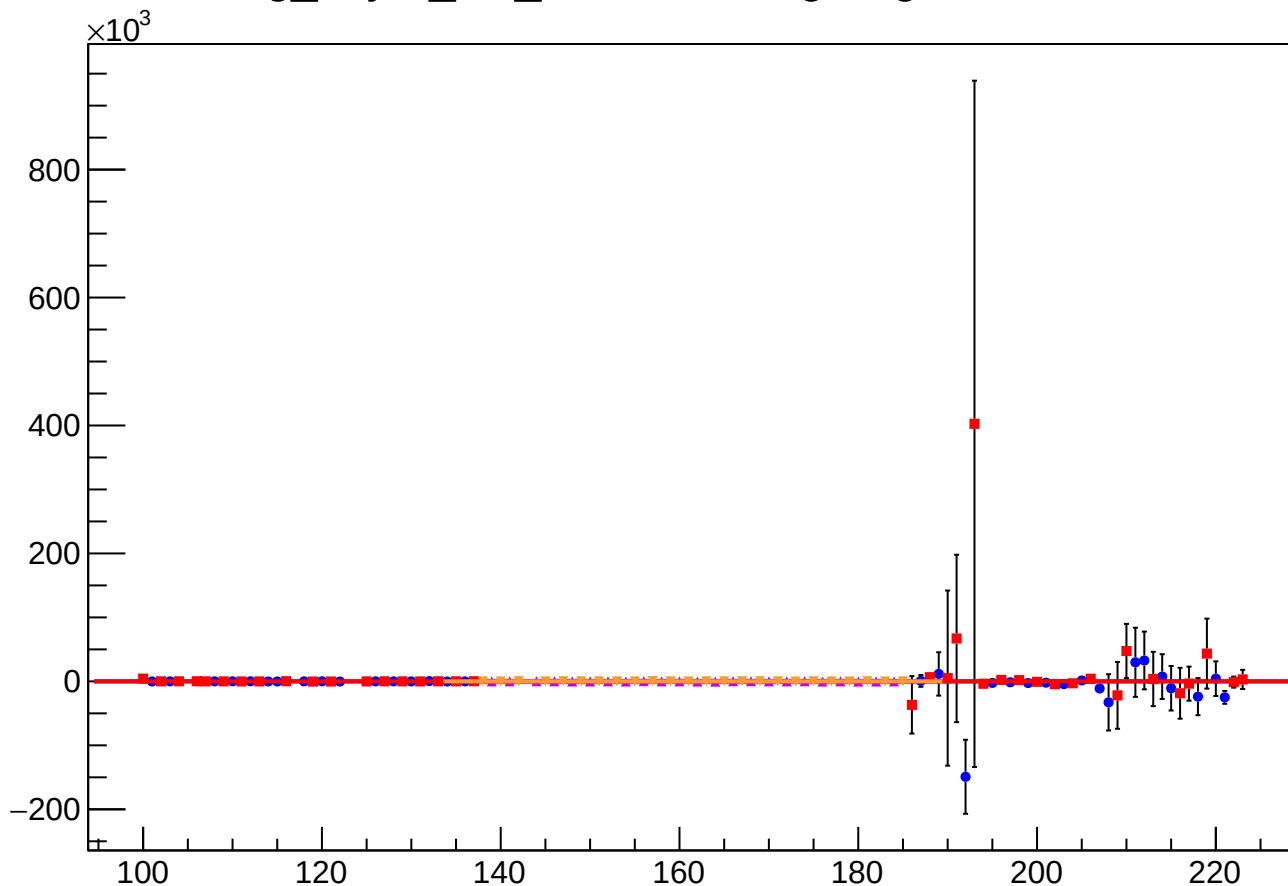
Right: 2530.885+/-0.289 χ^2/NDF : 3807270.3/72

In: 2138.150+/-0.254 χ^2/NDF : 3671699.2/57

Out: 2158.552+/-0.251 χ^2/NDF : 3775888.2/62

All: 2148.455+/-0.179 χ^2/NDF : 7450846.8/12

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.708 ± 36.762 $\chi^2/\text{NDF}: 39.8/33$

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

Right Out: 1.851 ± 36.747 $\chi^2/\text{NDF}: 21.8/37$

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

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

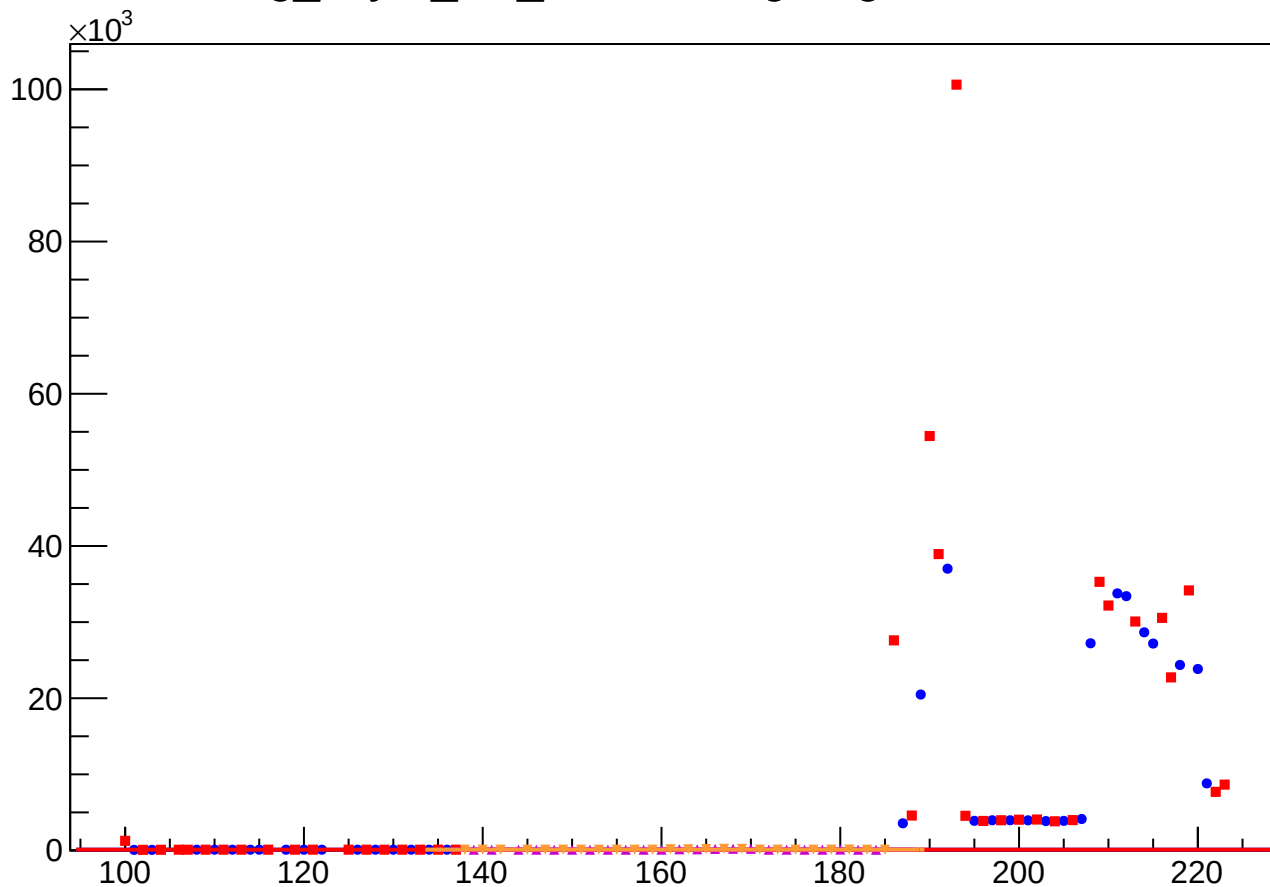
Right: -0.428 ± 25.989 $\chi^2/\text{NDF}: 61.6/71$

In: 15.458 ± 21.413 $\chi^2/\text{NDF}: 76.6/56$

Out: 8.741 ± 21.365 $\chi^2/\text{NDF}: 57.8/61$

All: 12.092 ± 15.124 $\chi^2/\text{NDF}: 134.4/118$

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.353 $\pm$ 0.026 χ^2 /NDF: 22441467.9/33

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

Right Out: 98.569 $\pm$ 0.026 χ^2 /NDF: 21190061.2/37

Left In: 107.672 $\pm$ 0.019 χ^2 /NDF: 1491034.7/22

Left: 107.867 $\pm$ 0.013 χ^2 /NDF: 2926230.6/46

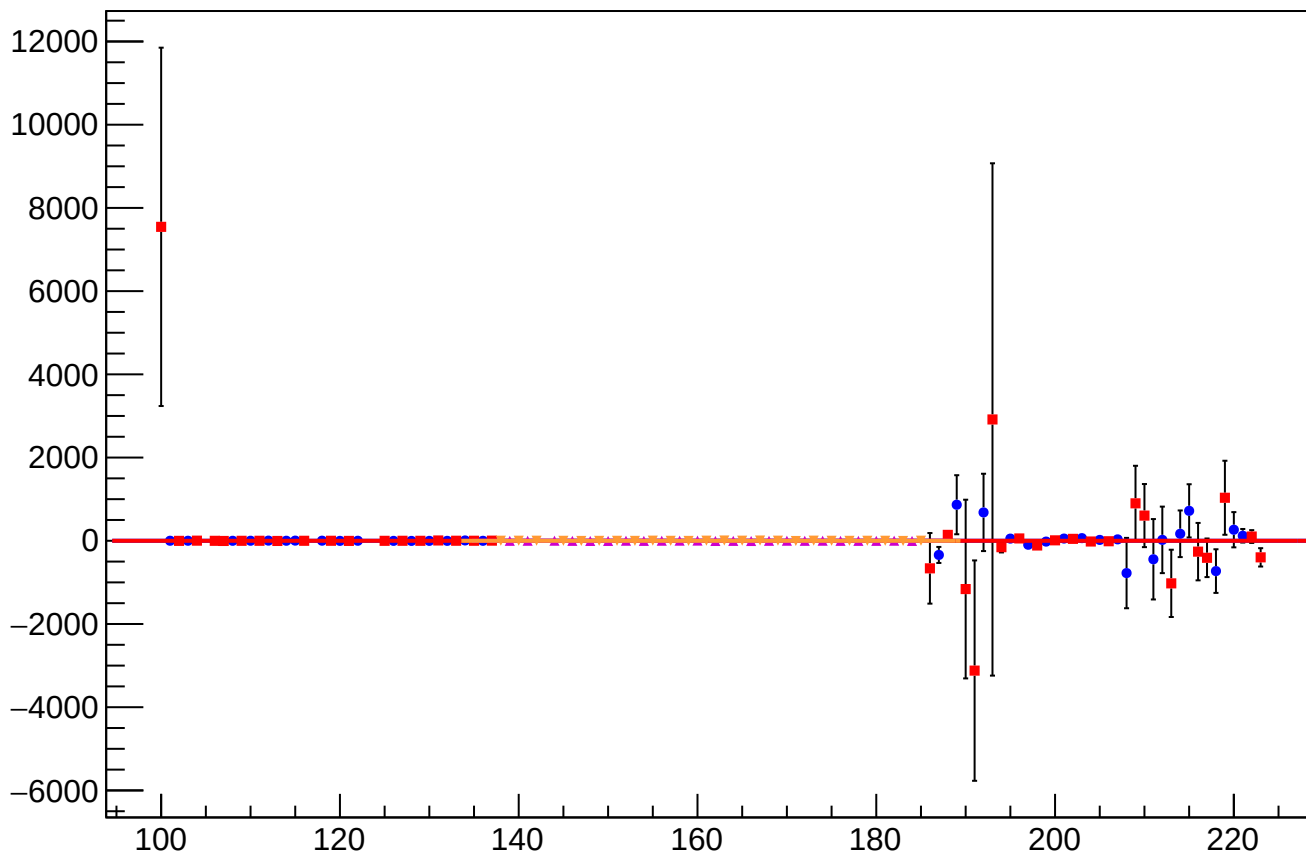
Right: 97.461 $\pm$ 0.018 χ^2 /NDF: 43635163.9/71

In: 103.832 $\pm$ 0.015 χ^2 /NDF: 24057793.8/56

Out: 104.851 $\pm$ 0.015 χ^2 /NDF: 22713354.1/61

All: 104.343 $\pm$ 0.011 χ^2 /NDF: 46773419.0/11

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.399 $\pm$ 0.617 χ^2 /NDF: 24.7/33

Left Out: -0.534 $\pm$ 0.475 χ^2 /NDF:30.5/23

Right Out: -0.348 $\pm$ 0.644 χ^2 /NDF: 38.9/37

Left In: -0.067 $\pm$ 0.485 χ^2 /NDF:25.0/22

Left: -0.306 $\pm$ 0.339 χ^2 /NDF: 56.0/46

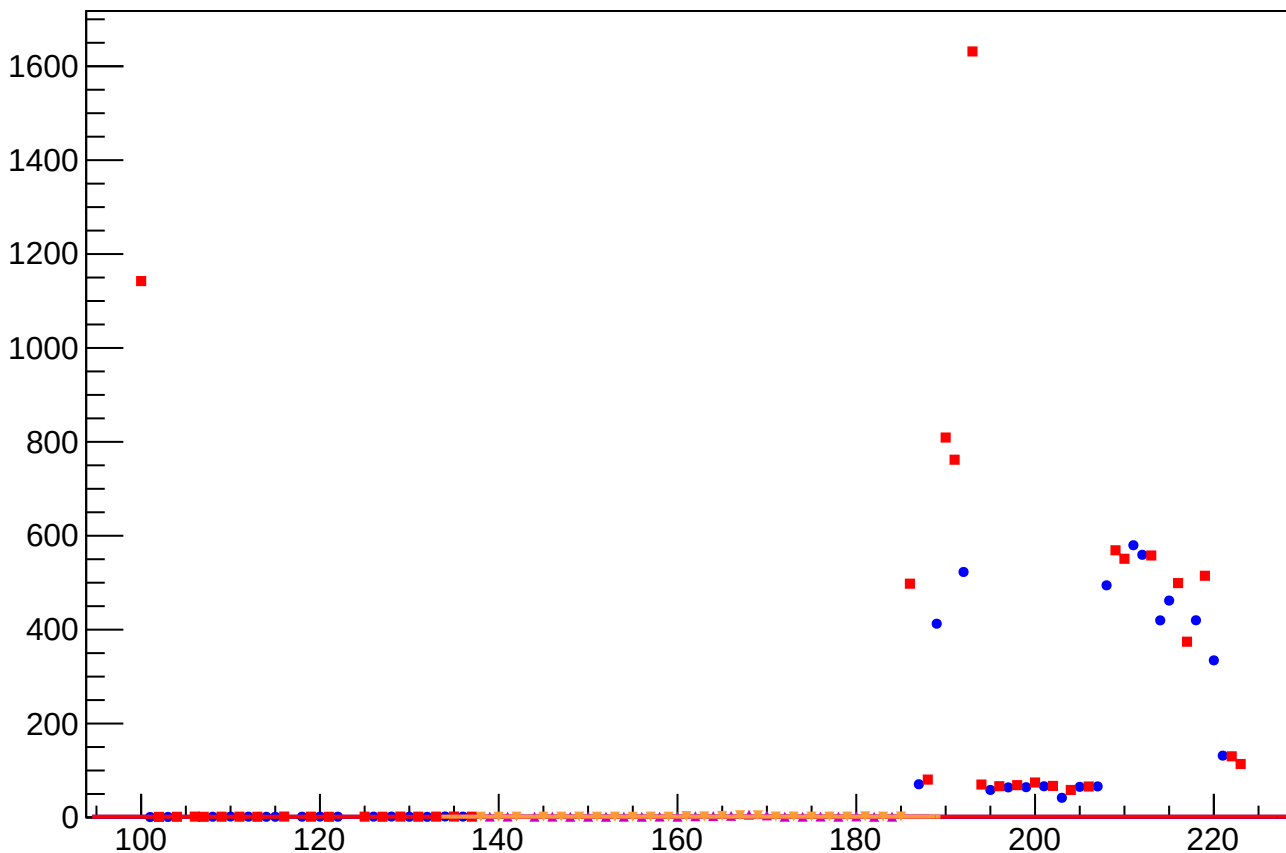
Right: 0.041 $\pm$ 0.445 χ^2 /NDF: 64.3/71

In: 0.110 $\pm$ 0.381 χ^2 /NDF:50.0/56

Out: -0.469 $\pm$ 0.382 χ^2 /NDF:69.5/61

All: -0.178 $\pm$ 0.270 χ^2 /NDF: 120.7/118

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.455+/-0.000 χ^2/NDF : 19399321.0/33

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

Right Out: 1.590+/-0.000 χ^2/NDF : 18651650.7/37

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

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

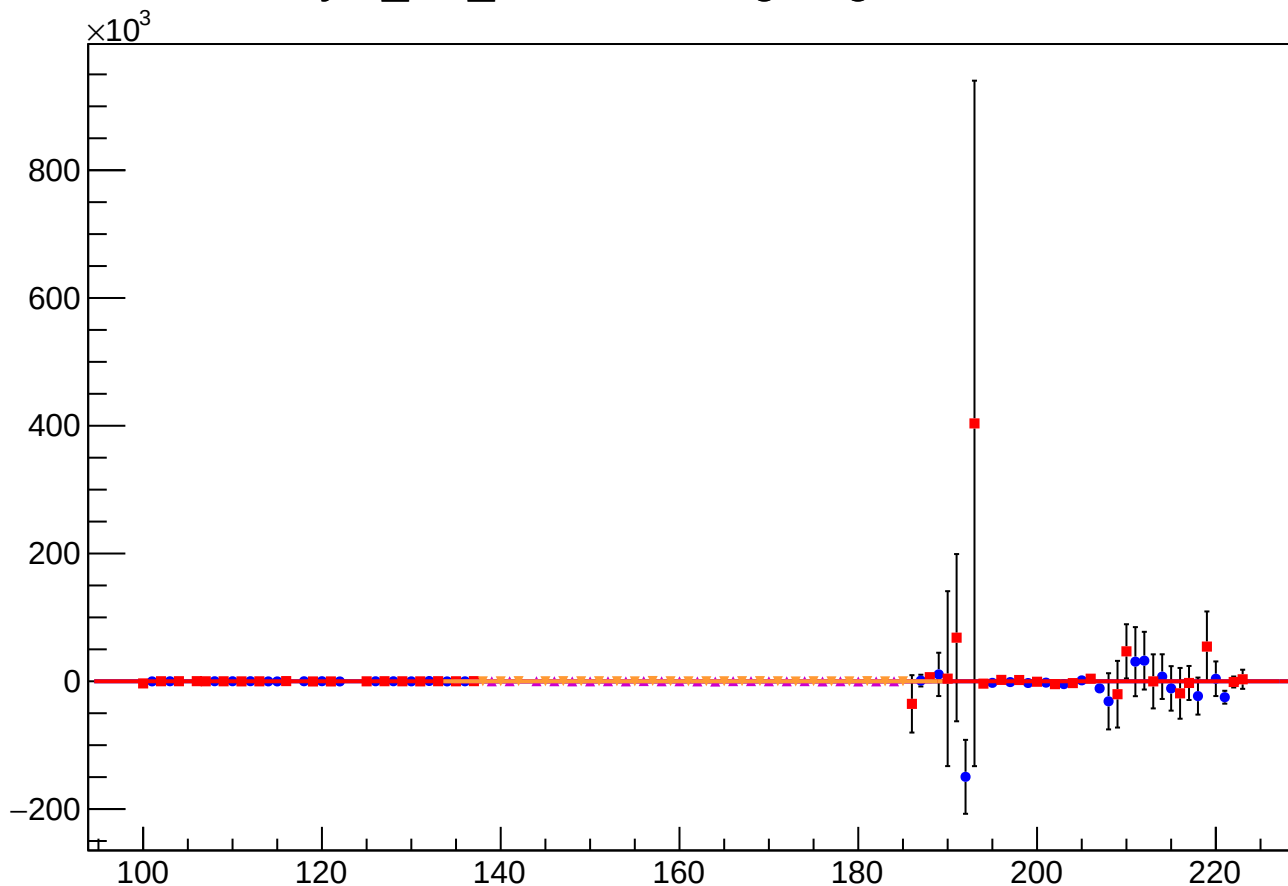
Right: 1.519+/-0.000 χ^2/NDF : 38097103.7/71

In: 1.670+/-0.000 χ^2/NDF : 21713965.8/56

Out: 1.707+/-0.000 χ^2/NDF : 20354085.9/61

All: 1.688+/-0.000 χ^2/NDF : 42077769.3/118

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.421 ± 36.771 $\chi^2/\text{NDF}: 40.0/33$

Left Out: 12.948 ± 26.268 $\chi^2/\text{NDF}: 35.7/23$

Right Out: 1.622 ± 36.757 $\chi^2/\text{NDF}: 21.5/37$

Left In: 25.312 ± 26.351 $\chi^2/\text{NDF}: 35.7/22$

Left: 19.110 ± 18.604 $\chi^2/\text{NDF}: 71.6/46$

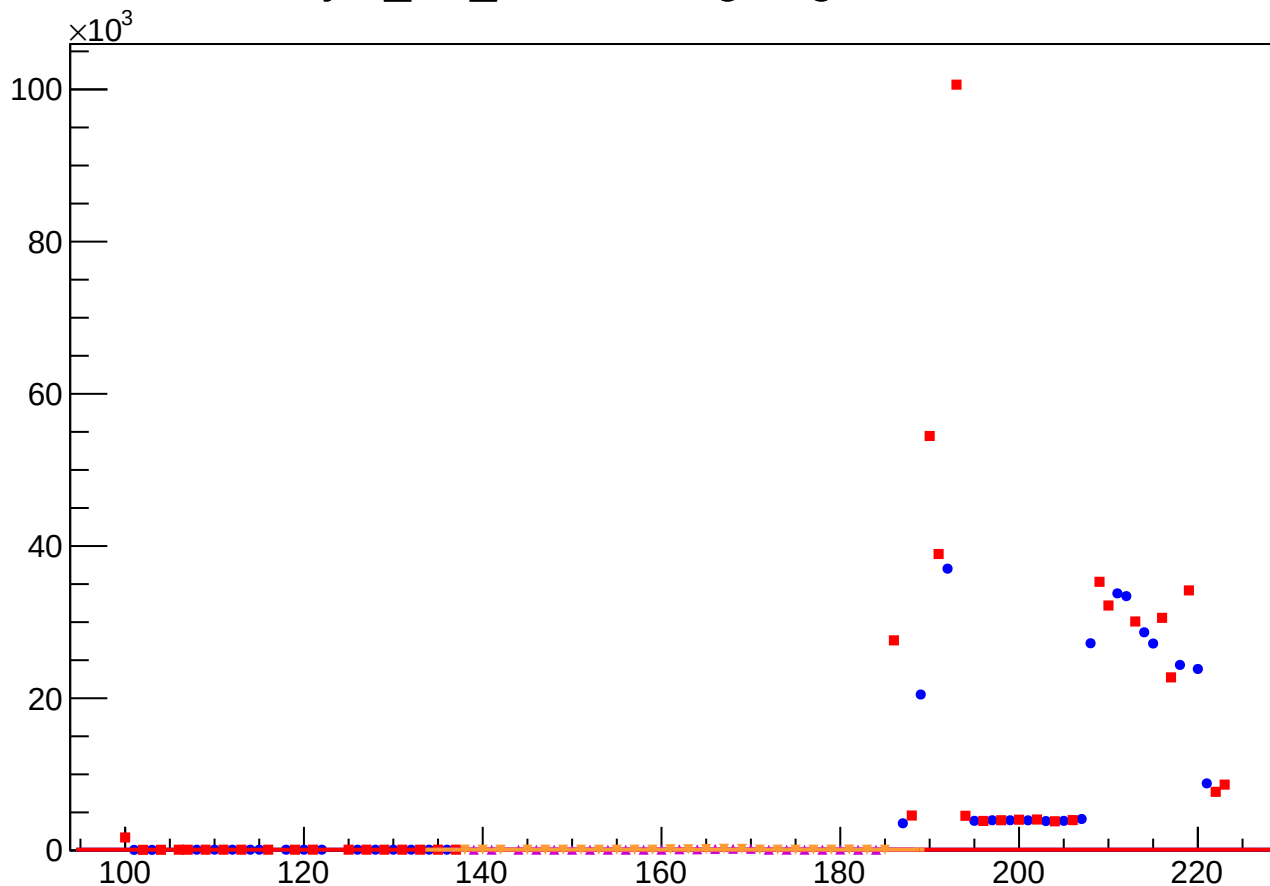
Right: -0.399 ± 25.996 $\chi^2/\text{NDF}: 61.5/71$

In: 15.902 ± 21.419 $\chi^2/\text{NDF}: 76.1/56$

Out: 9.119 ± 21.371 $\chi^2/\text{NDF}: 57.3/61$

All: 12.503 ± 15.129 $\chi^2/\text{NDF}: 133.5/118$

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.378 $\pm$ 0.026 χ^2 /NDF: 22441437.0/33

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

Right Out: 98.578 $\pm$ 0.026 χ^2 /NDF: 21195363.3/37

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

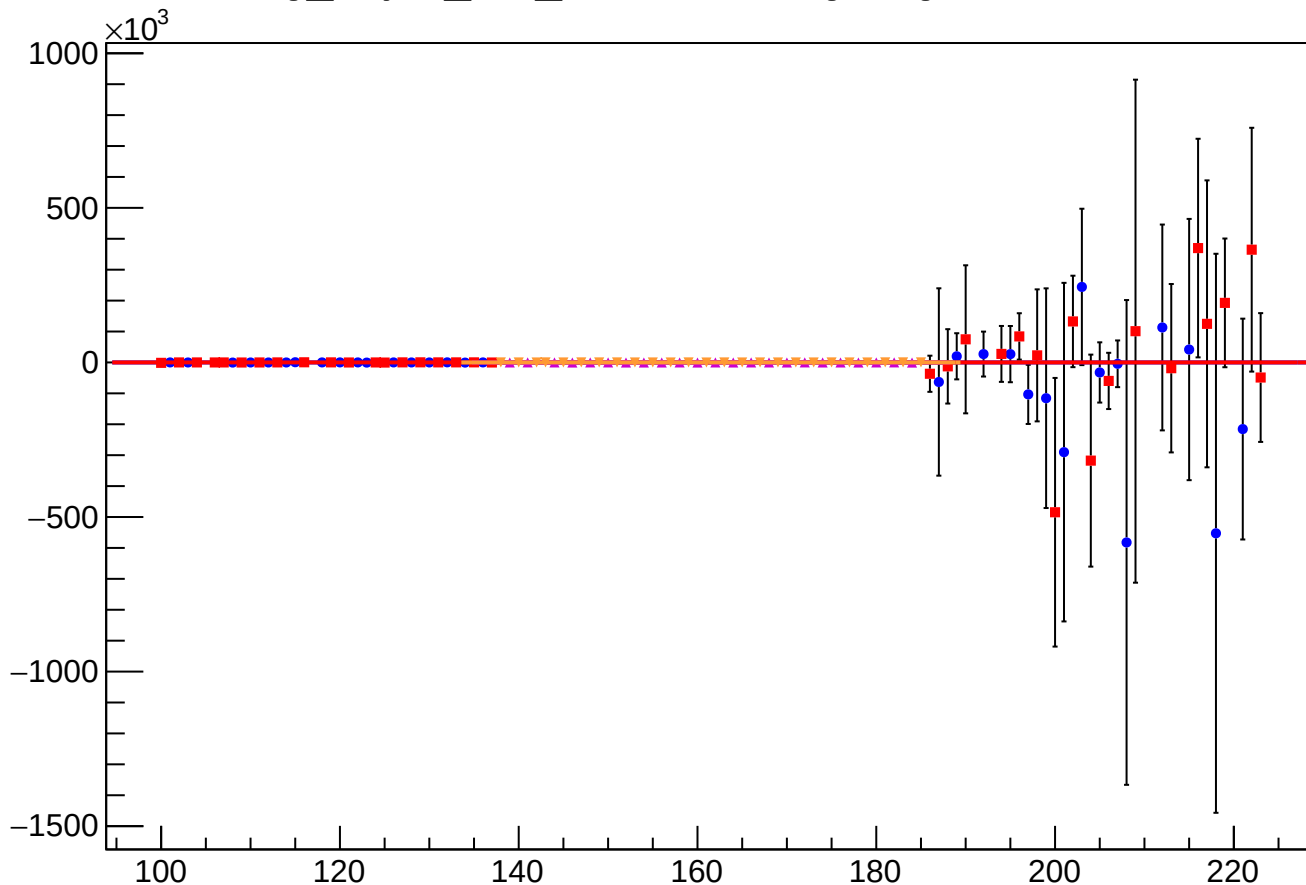
Right: 97.478 $\pm$ 0.018 χ^2 /NDF: 43640382.8/71

In: 103.860 $\pm$ 0.015 χ^2 /NDF: 24059128.8/56

Out: 104.875 $\pm$ 0.015 χ^2 /NDF: 22720393.2/61

All: 104.369 $\pm$ 0.011 χ^2 /NDF: 46781769.3/111

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.807 ± 46.841 χ^2/NDF : 18.8/31

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

Right Out: 53.410 ± 47.775 χ^2/NDF : 23.6/35

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

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

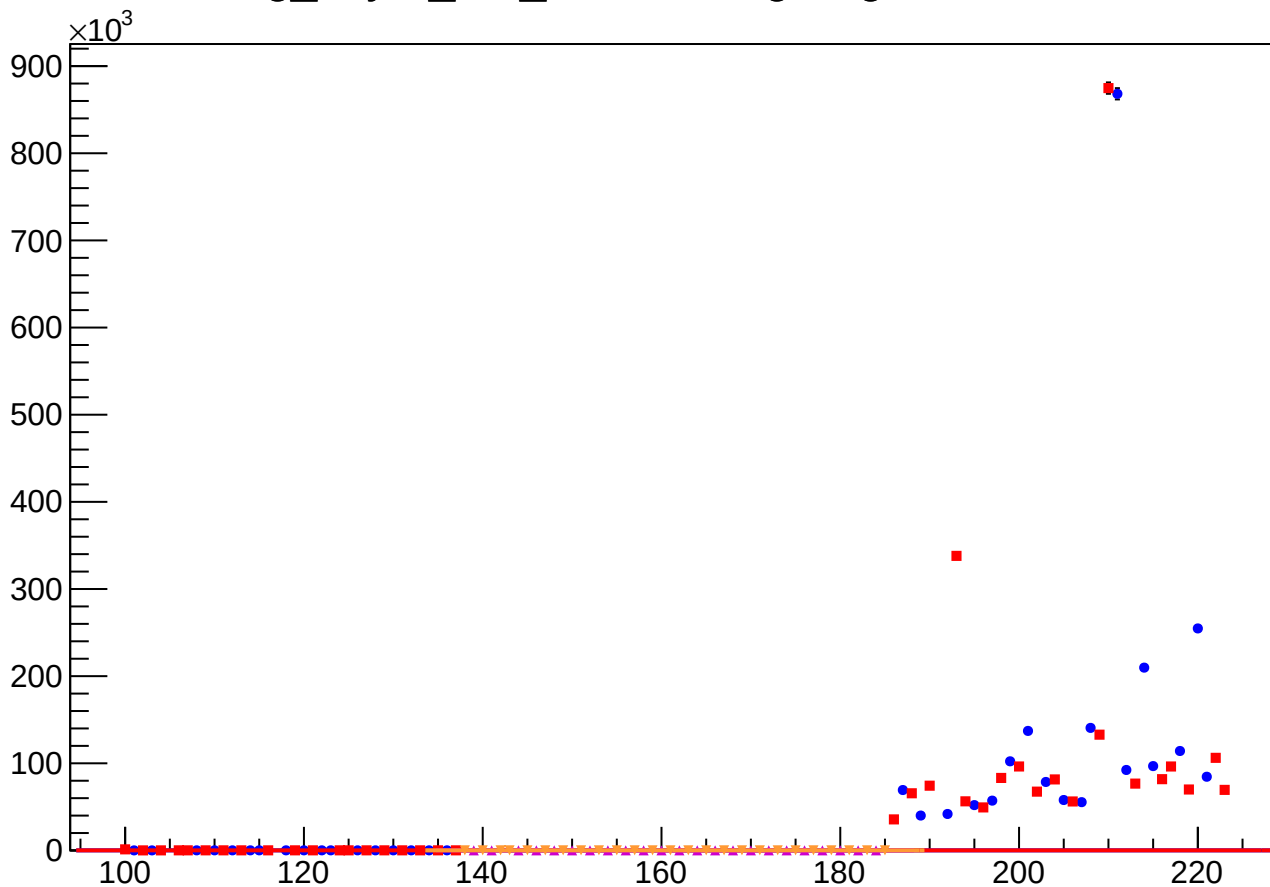
Right: 12.510 ± 33.447 χ^2/NDF : 43.8/67

In: -52.584 ± 26.947 χ^2/NDF : 38.5/54

Out: 7.741 ± 26.623 χ^2/NDF : 36.9/60

All: -22.057 ± 18.939 χ^2/NDF : 77.9/115

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.886 $\pm$ 0.033 χ^2 /NDF: 7285842.9/34

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

Right Out: 124.856 $\pm$ 0.034 χ^2 /NDF: 7519637.1/37

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

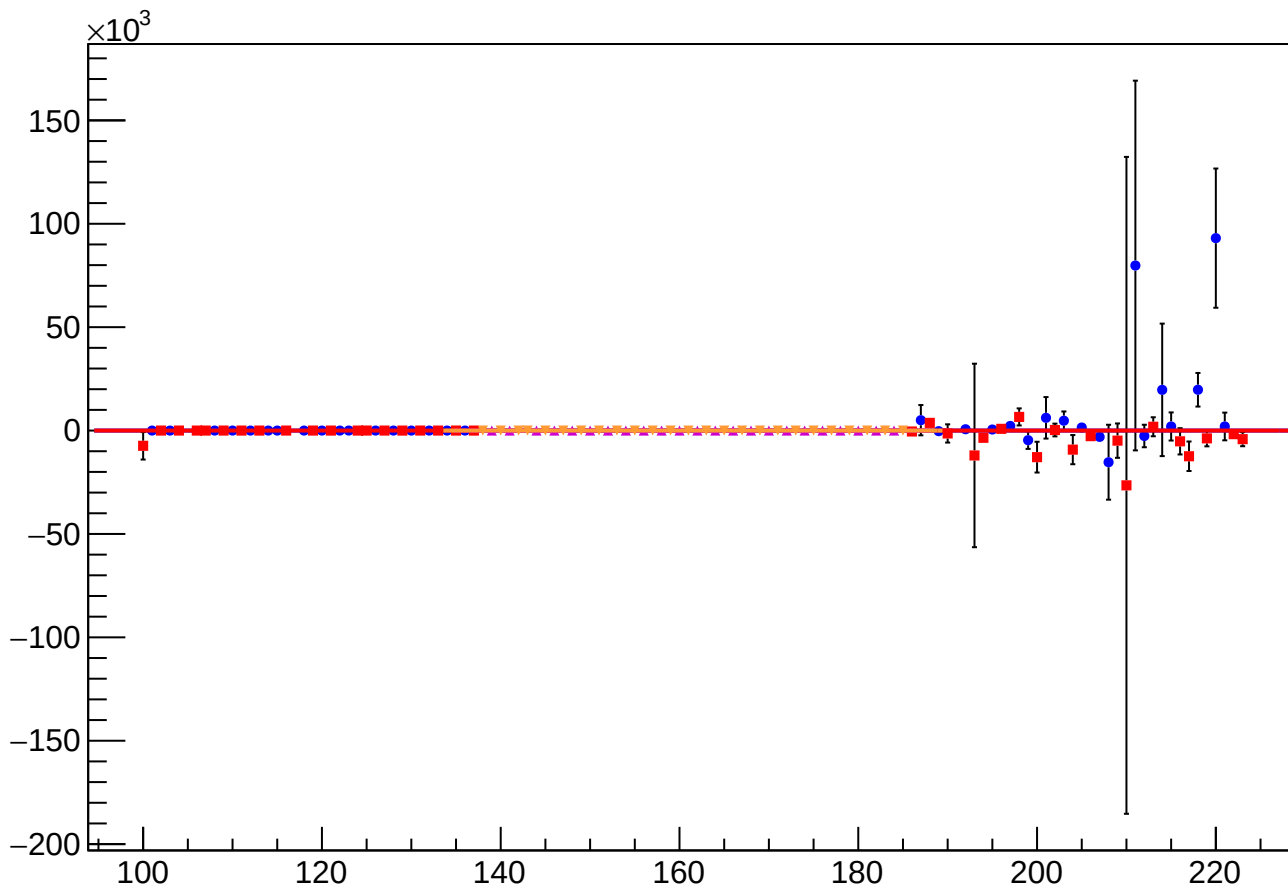
Right: 121.302 $\pm$ 0.024 χ^2 /NDF: 14827183.9/72

In: 131.212 $\pm$ 0.019 χ^2 /NDF: 7528270.8/57

Out: 133.819 $\pm$ 0.019 χ^2 /NDF: 7622195.6/62

All: 132.532 $\pm$ 0.013 χ^2 /NDF: 15159937.8/12

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 39.1/34

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

Right Out: -0.640 ± 0.852 χ^2/NDF : 39.5/37

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

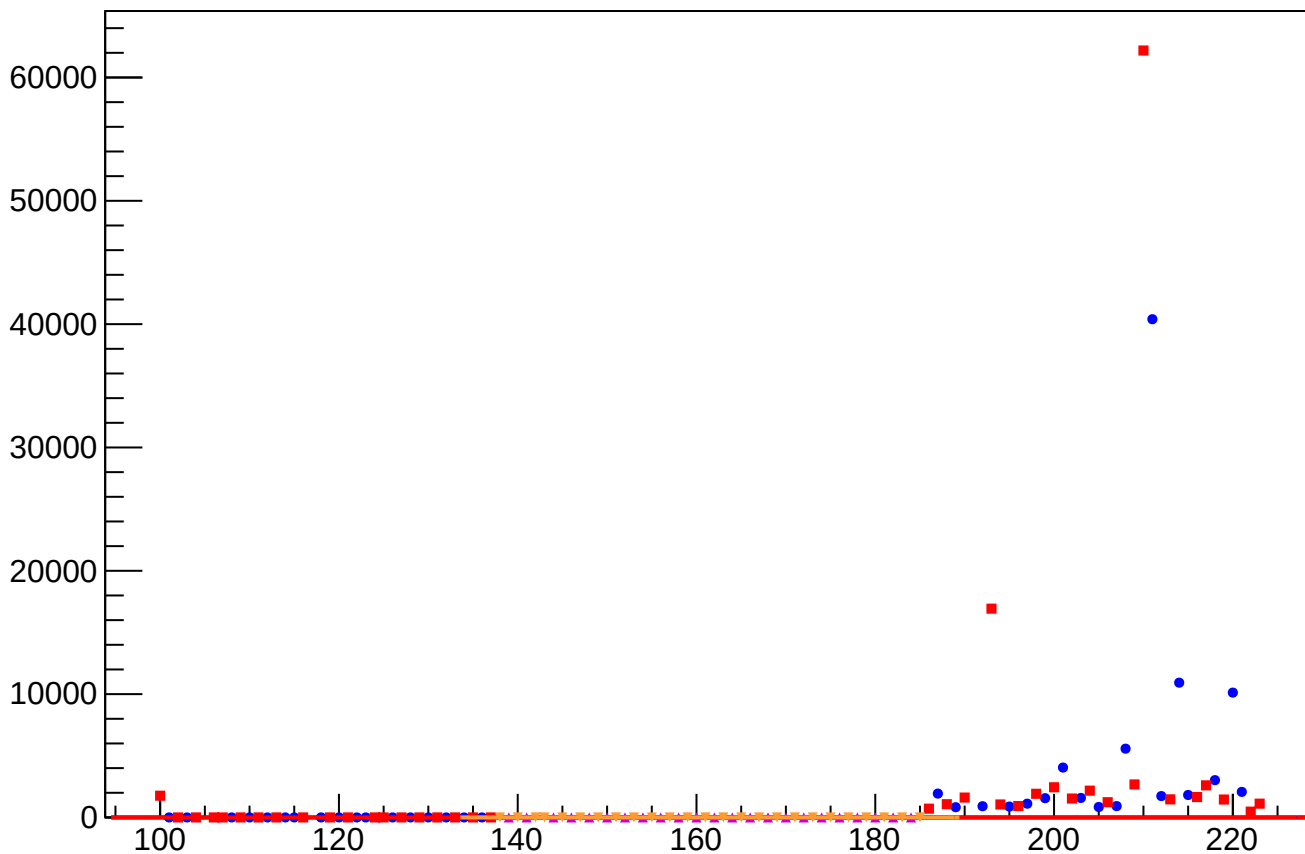
Right: -0.681 ± 0.587 χ^2/NDF : 78.7/72

In: -0.052 ± 0.471 χ^2/NDF : 60.8/57

Out: 0.139 ± 0.475 χ^2/NDF : 69.7/62

All: 0.043 ± 0.334 χ^2/NDF : 130.6/120

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867 ± 0.001 χ^2/NDF : 7459363.2/34

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

Right Out: 2.066 ± 0.001 χ^2/NDF : 7786615.8/37

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

Left: 2.228 ± 0.000 χ^2/NDF : 900243.0/47

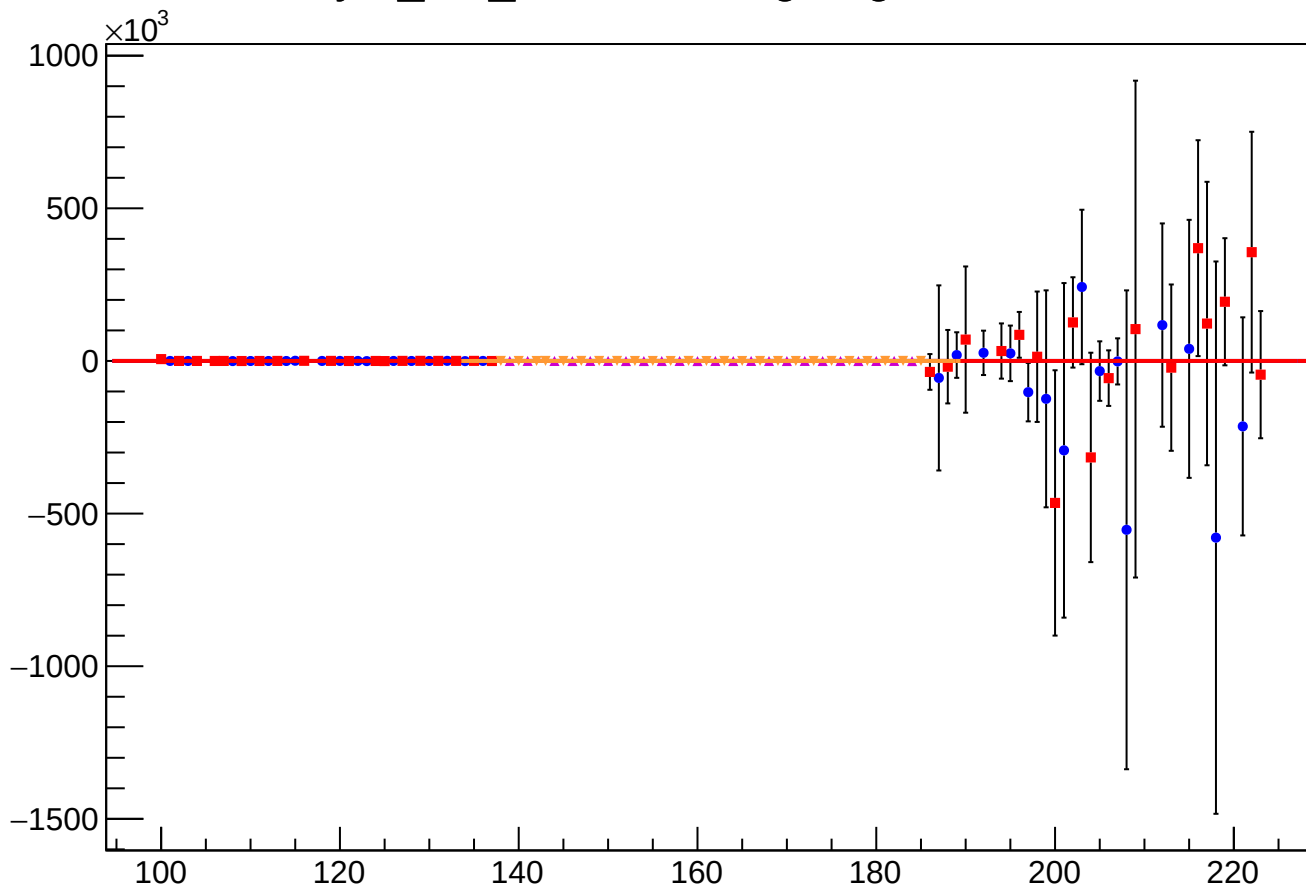
Right: 1.961 ± 0.000 χ^2/NDF : 15302963.6/72

In: 2.083 ± 0.000 χ^2/NDF : 8184451.2/57

Out: 2.201 ± 0.000 χ^2/NDF : 8234779.0/62

All: 2.141 ± 0.000 χ^2/NDF : 16481662.4/120

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.068 ± 46.854 χ^2/NDF : 18.8/31

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

Right Out: 54.313 ± 47.789 χ^2/NDF : 24.0/35

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

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

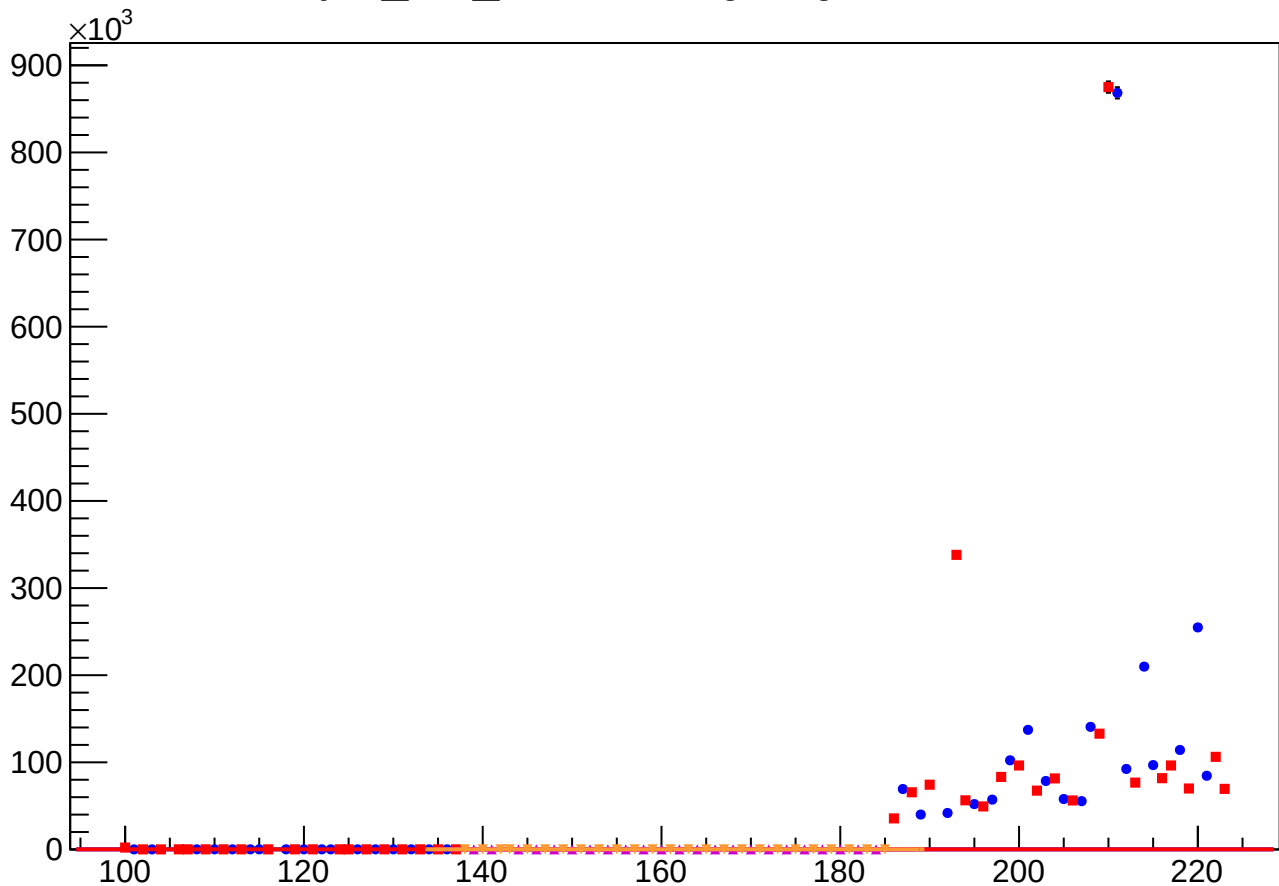
Right: 13.838 ± 33.456 χ^2/NDF : 44.2/67

In: -51.939 ± 26.954 χ^2/NDF : 38.6/54

Out: 7.639 ± 26.631 χ^2/NDF : 37.2/60

All: -21.791 ± 18.944 χ^2/NDF : 78.3/115

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.918 $\pm$ 0.033 χ^2 /NDF: 7286008.9/34

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

Right Out: 124.845 $\pm$ 0.034 χ^2 /NDF: 7530292.1/37

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

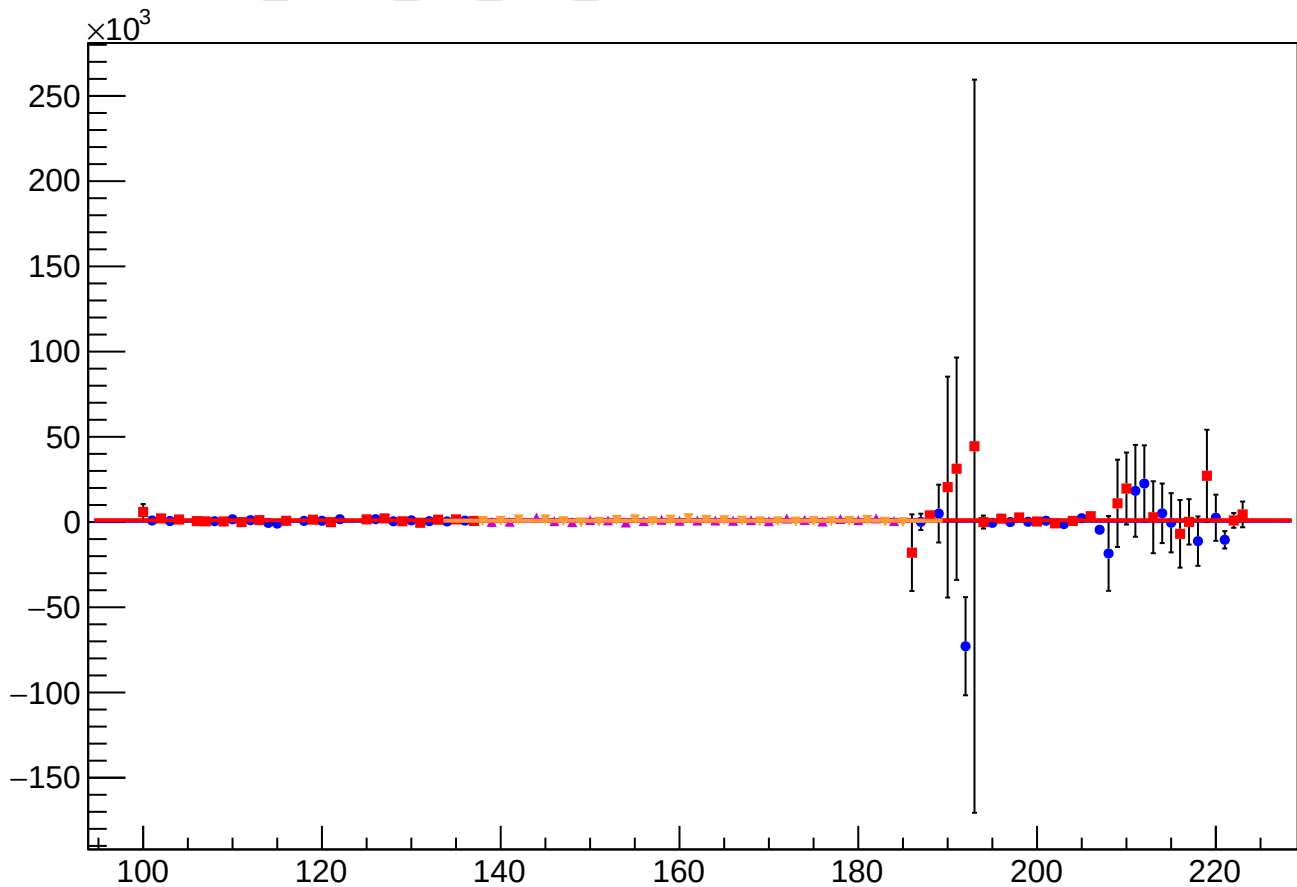
Right: 121.313 $\pm$ 0.024 χ^2 /NDF: 14837726.7/72

In: 131.249 $\pm$ 0.019 χ^2 /NDF: 7528472.3/57

Out: 133.843 $\pm$ 0.019 χ^2 /NDF: 7633569.7/62

All: 132.561 $\pm$ 0.013 χ^2 /NDF: 15171413.1/12

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 748.238 $\pm$ 209.598 χ^2 /NDF: 26.6/33

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

Right Out: 1042.539 $\pm$ 206.908 χ^2 /NDF: 20.9/37

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

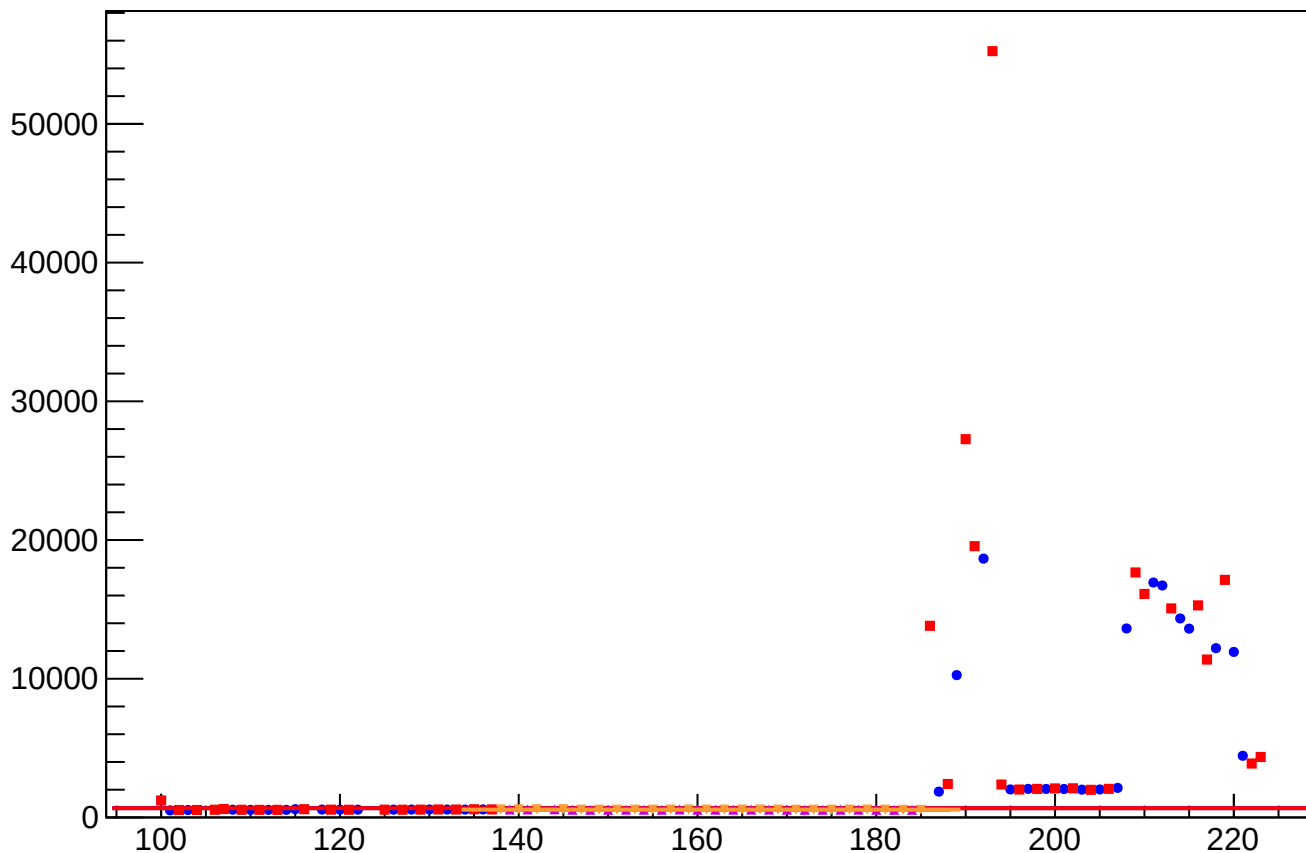
Right: 897.289 $\pm$ 147.248 χ^2 /NDF: 48.5/71

In: 908.135 $\pm$ 113.455 χ^2 /NDF:54.8/56

Out: 860.700 $\pm$ 112.505 χ^2 /NDF:41.2/61

All: 884.218 $\pm$ 79.887 χ^2 /NDF: 96.2/118

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 669.623+/-0.148 χ^2/NDF : 15792765.1/33

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

Right Out: 668.341+/-0.146 χ^2/NDF : 14794886.6/37

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

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

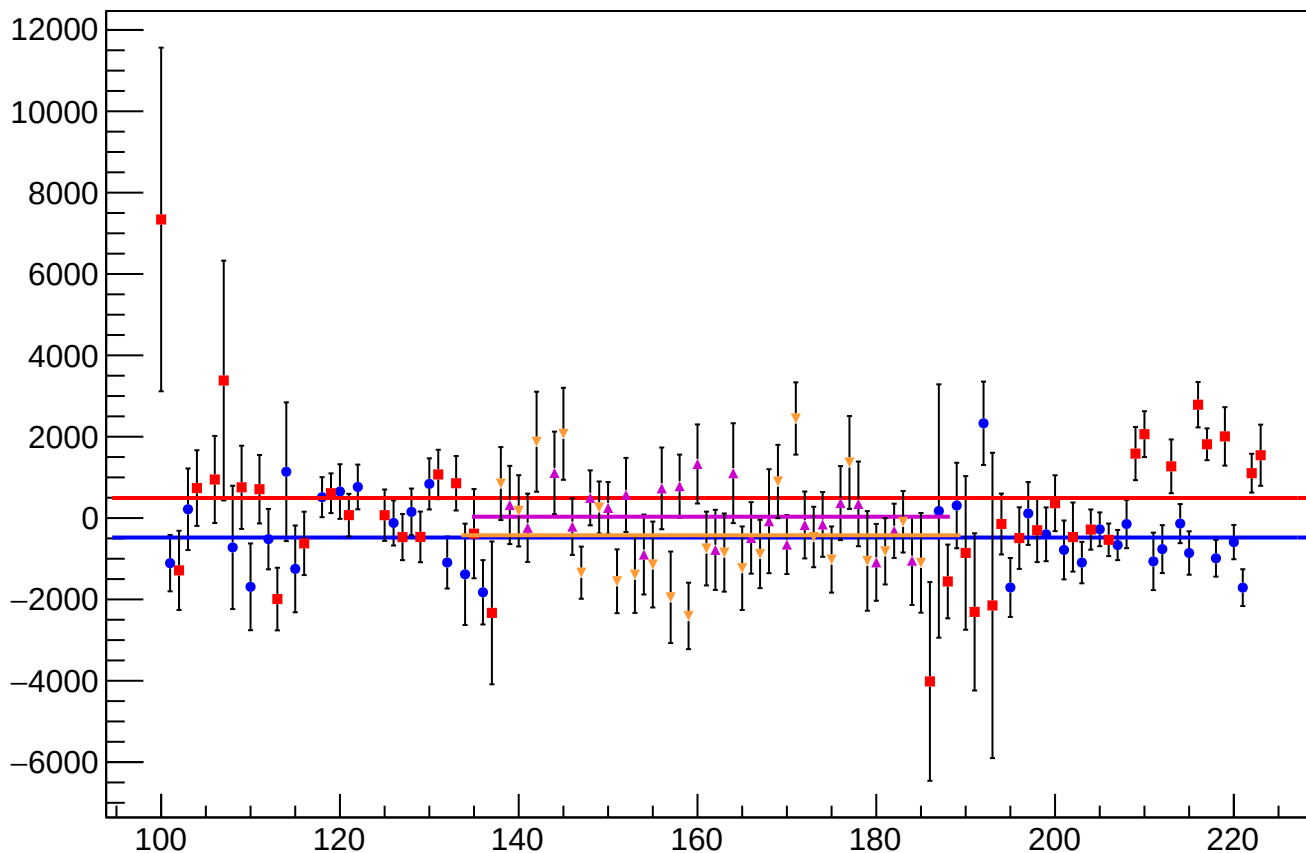
Right: 668.974+/-0.104 χ^2/NDF : 30587689.6/71

In: 595.219+/-0.080 χ^2/NDF : 16158454.8/56

Out: 594.950+/-0.080 χ^2/NDF : 15161730.3/61

All: 595.083+/-0.056 χ^2/NDF : 31320190.7/11

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -478.510 $\pm$ 106.431 χ^2/NDF : 51.2/33

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

Right Out: 493.616 $\pm$ 113.420 χ^2/NDF : 104.3/37

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

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

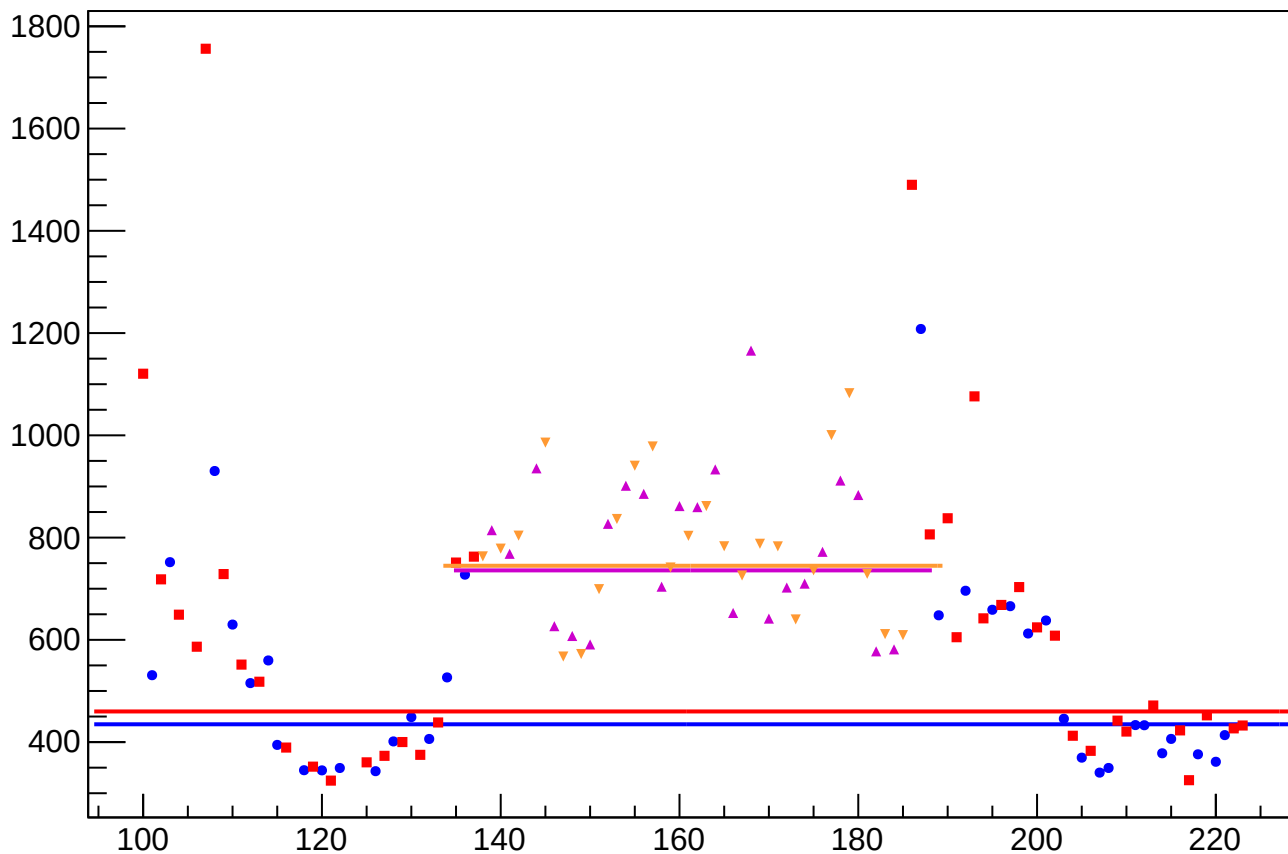
Right: -23.320 $\pm$ 77.611 χ^2/NDF : 194.5/71

In: -345.534 $\pm$ 91.539 χ^2/NDF :69.4/56

Out: 234.462 $\pm$ 96.051 χ^2/NDF :166.0/61

All: -69.479 $\pm$ 66.265 χ^2/NDF : 254.4/118

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 434.839+/-0.075 χ^2/NDF : 2420148.3/33

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

Right Out: 459.942+/-0.080 χ^2/NDF : 3257702.7/37

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

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

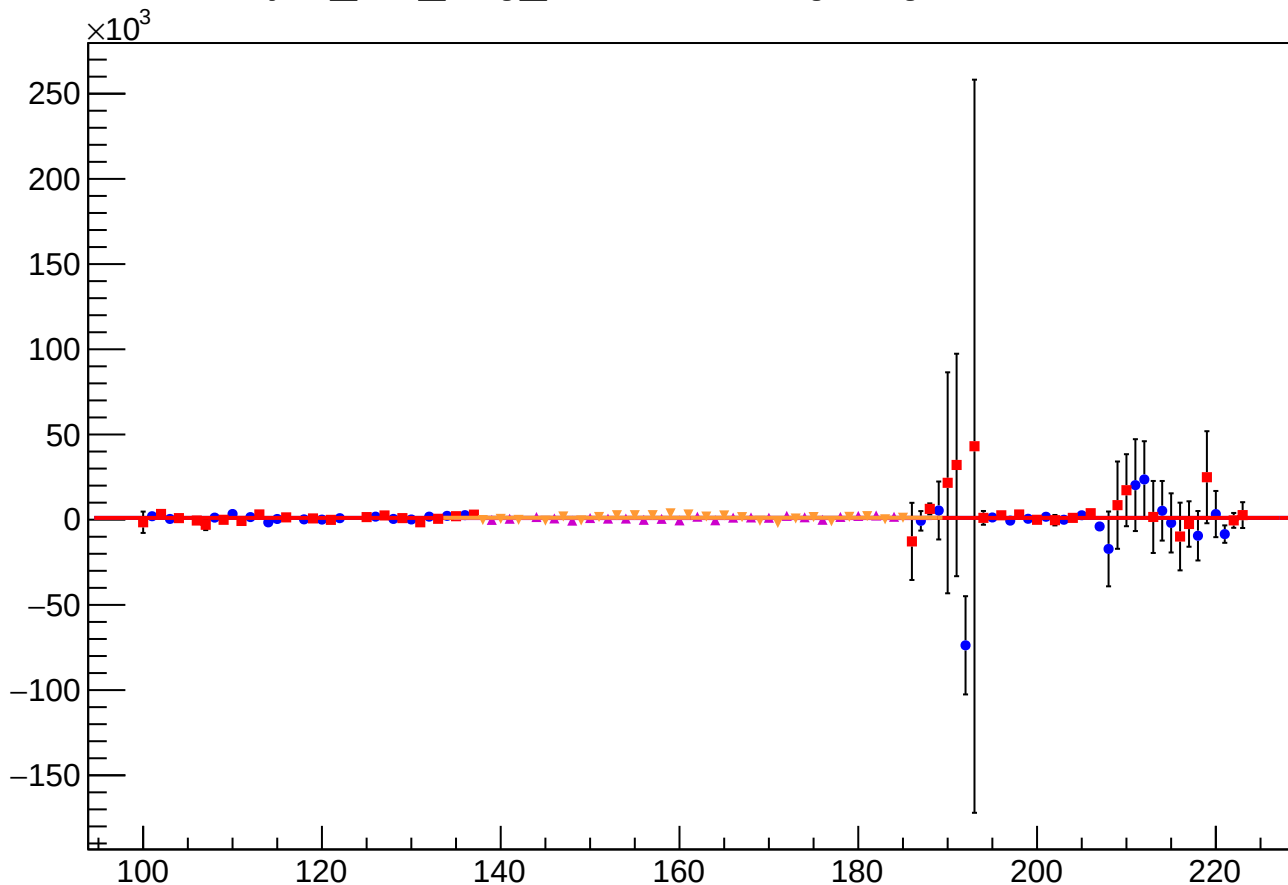
Right: 446.594+/-0.055 χ^2/NDF : 5729948.4/71

In: 513.182+/-0.065 χ^2/NDF :7689234.0/56

Out: 540.539+/-0.068 χ^2/NDF :7837306.5/61

All: 526.203+/-0.047 χ^2/NDF : 15611557.3/131

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1063.202 $\pm$ 279.986 χ^2 /NDF: 30.9/33

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

Right Out: 1058.023 $\pm$ 279.477 χ^2 /NDF: 31.8/37

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

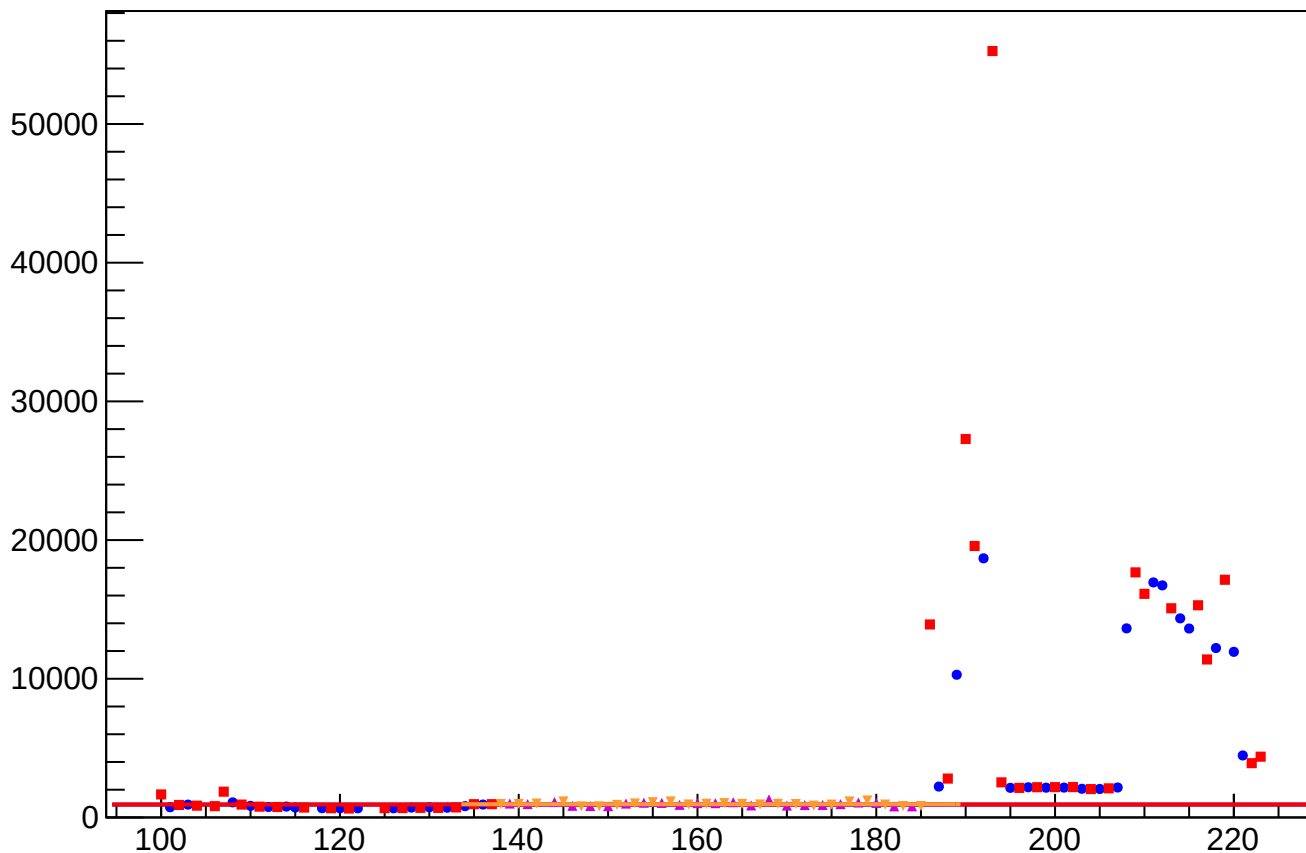
Right: 1060.608 $\pm$ 197.800 χ^2 /NDF: 62.7/71

In: 990.229 $\pm$ 176.947 χ^2 /NDF:45.8/56

Out: 1105.863 $\pm$ 177.055 χ^2 /NDF:70.7/61

All: 1048.011 $\pm$ 125.158 χ^2 /NDF: 116.7/118

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 929.937 $\pm$ 0.198 χ^2 /NDF: 14129726.8/33

Left Out: 954.333 $\pm$ 0.162 χ^2 /NDF: 460147.5/23

Right Out: 931.230 $\pm$ 0.198 χ^2 /NDF: 13507435.7/37

Left In: 946.573 $\pm$ 0.161 χ^2 /NDF: 501366.9/22

Left: 950.444 $\pm$ 0.114 χ^2 /NDF: 962667.1/46

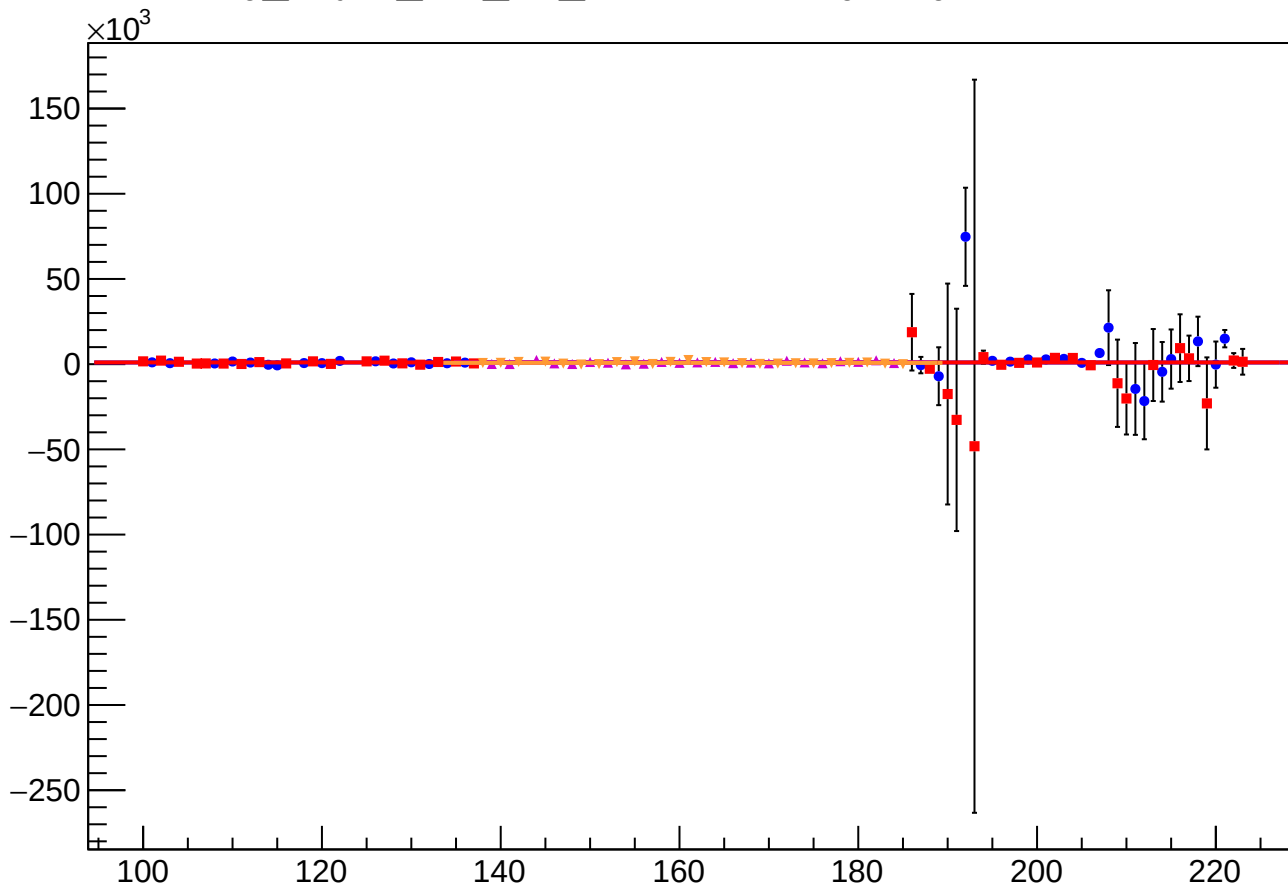
Right: 930.584 $\pm$ 0.140 χ^2 /NDF: 27637183.9/71

In: 939.928 $\pm$ 0.125 χ^2 /NDF: 14635334.3/56

Out: 945.061 $\pm$ 0.125 χ^2 /NDF: 13975765.6/61

All: 942.493 $\pm$ 0.089 χ^2 /NDF: 28611940.8/11

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 983.096 $\pm$ 209.468 χ^2 /NDF: 32.1/33

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

Right Out: 1017.959 $\pm$ 202.319 χ^2 /NDF: 21.1/37

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

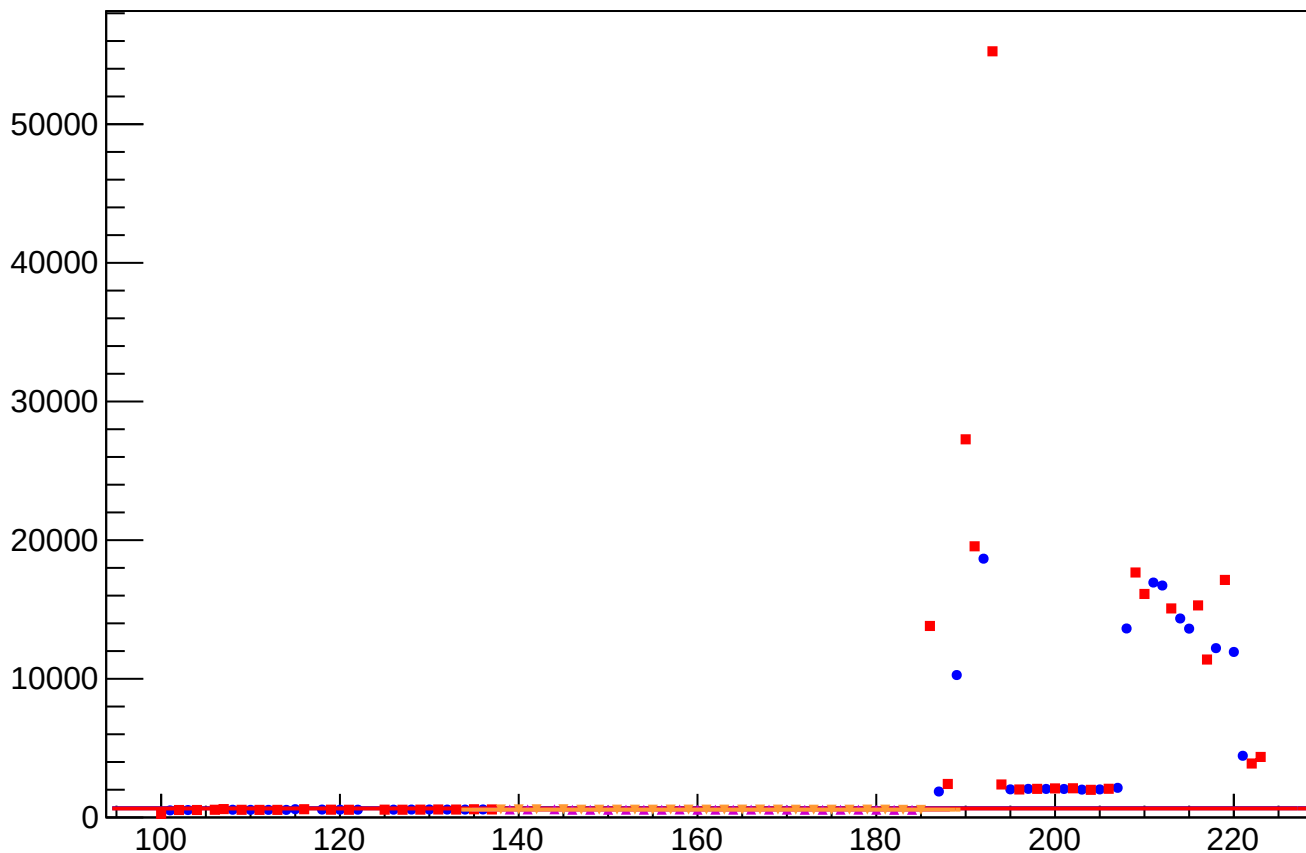
Right: 1001.132 $\pm$ 145.523 χ^2 /NDF: 53.2/71

In: 965.716 $\pm$ 113.370 χ^2 /NDF:58.9/56

Out: 836.968 $\pm$ 111.685 χ^2 /NDF:43.3/61

All: 900.378 $\pm$ 79.562 χ^2 /NDF: 102.9/118

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 668.973+/-0.148 χ^2/NDF : 15808273.7/33

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

Right Out: 648.224+/-0.143 χ^2/NDF : 15133201.5/37

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

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

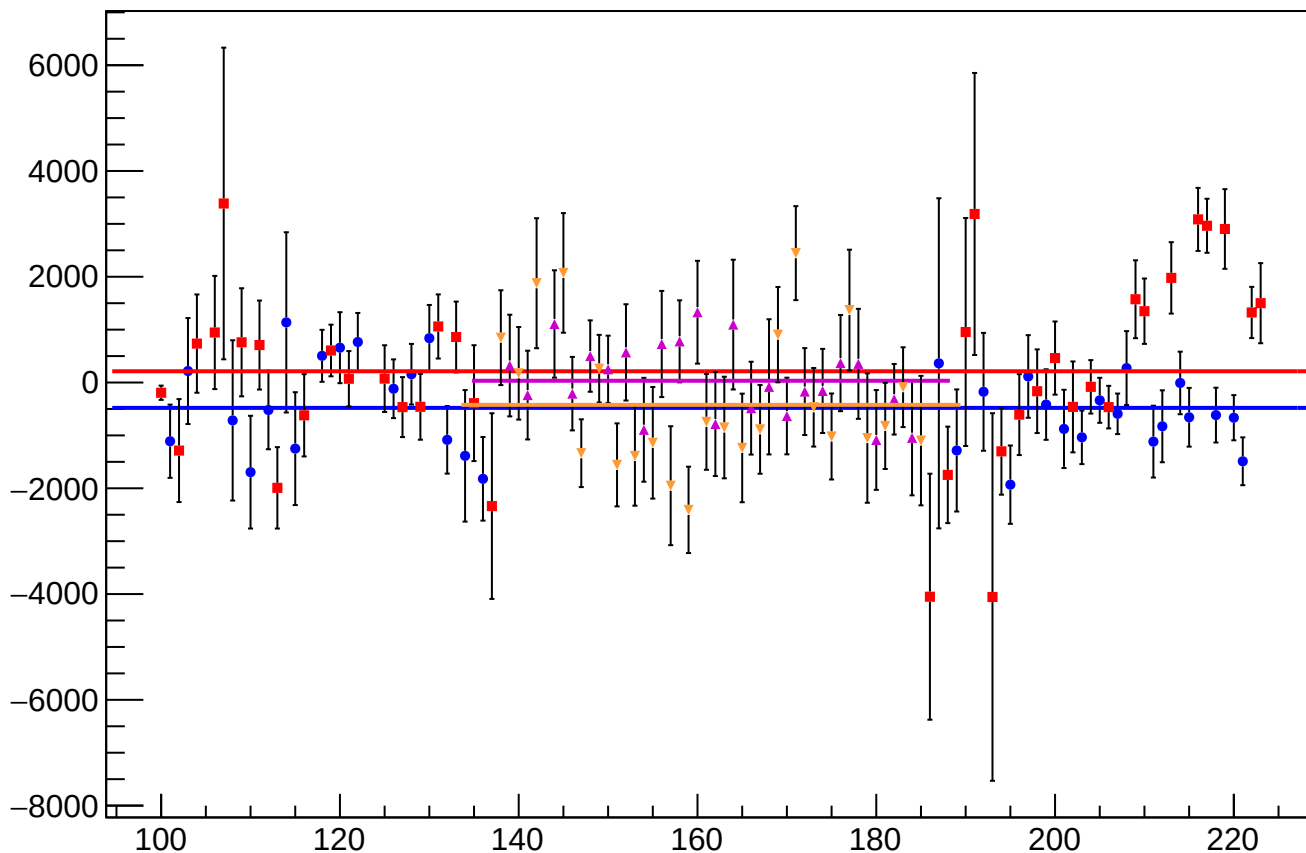
Right: 658.238+/-0.103 χ^2/NDF : 30951627.4/71

In: 594.703+/-0.080 χ^2/NDF : 16173073.9/56

Out: 589.439+/-0.079 χ^2/NDF : 15385590.6/61

All: 592.032+/-0.056 χ^2/NDF : 31560852.5/117

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -479.419 $\pm$ 110.015 χ^2 /NDF: 41.5/33

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

Right Out: 212.849 $\pm$ 88.670 χ^2 /NDF: 138.3/37

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

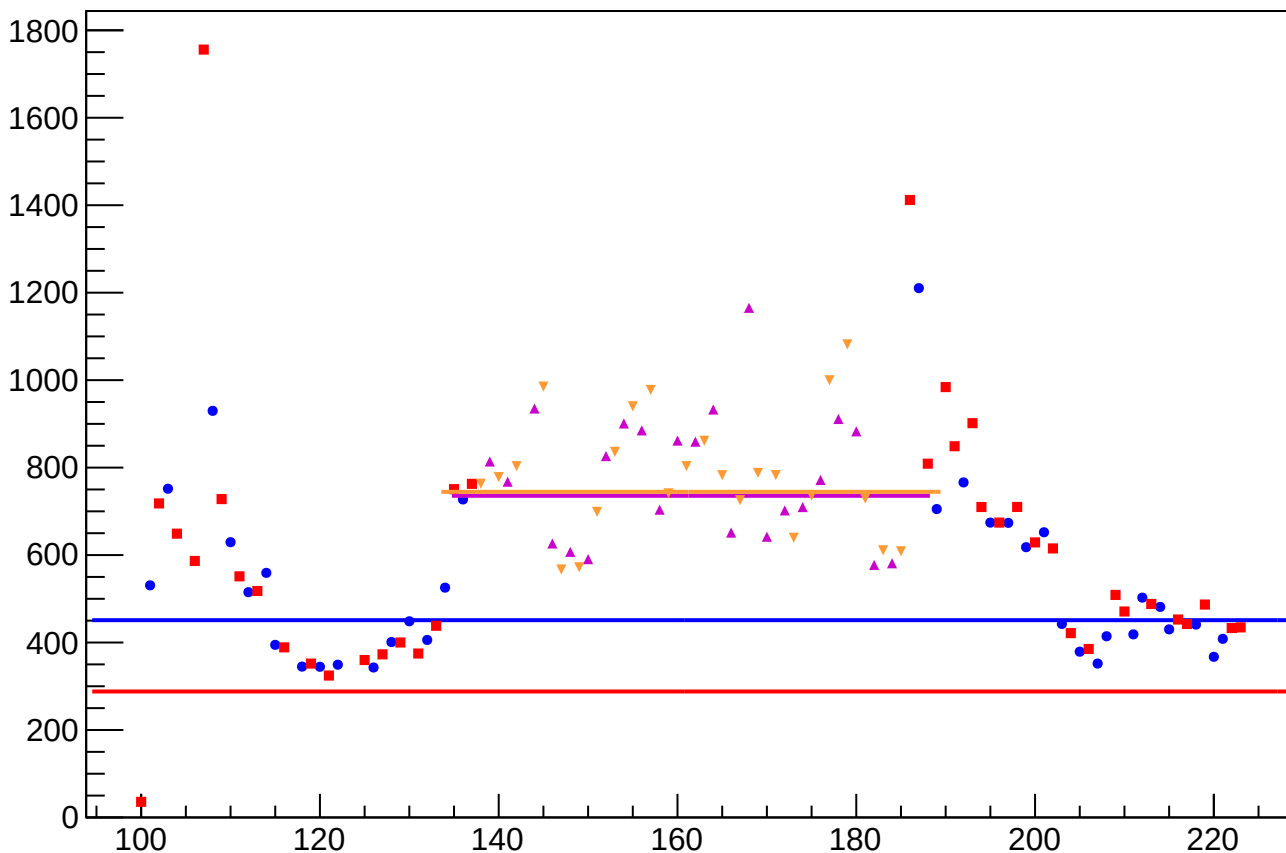
Right: -59.760 $\pm$ 69.038 χ^2 /NDF: 203.8/71

In: -339.240 $\pm$ 93.779 χ^2 /NDF:59.5/56

Out: 89.402 $\pm$ 79.588 χ^2 /NDF:191.6/61

All: -90.067 $\pm$ 60.681 χ^2 /NDF: 263.3/118

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 451.102 $\pm$ 0.078 χ^2 /NDF: 2364436.8/33

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

Right Out: 288.038 $\pm$ 0.063 χ^2 /NDF: 15318391.1/37

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

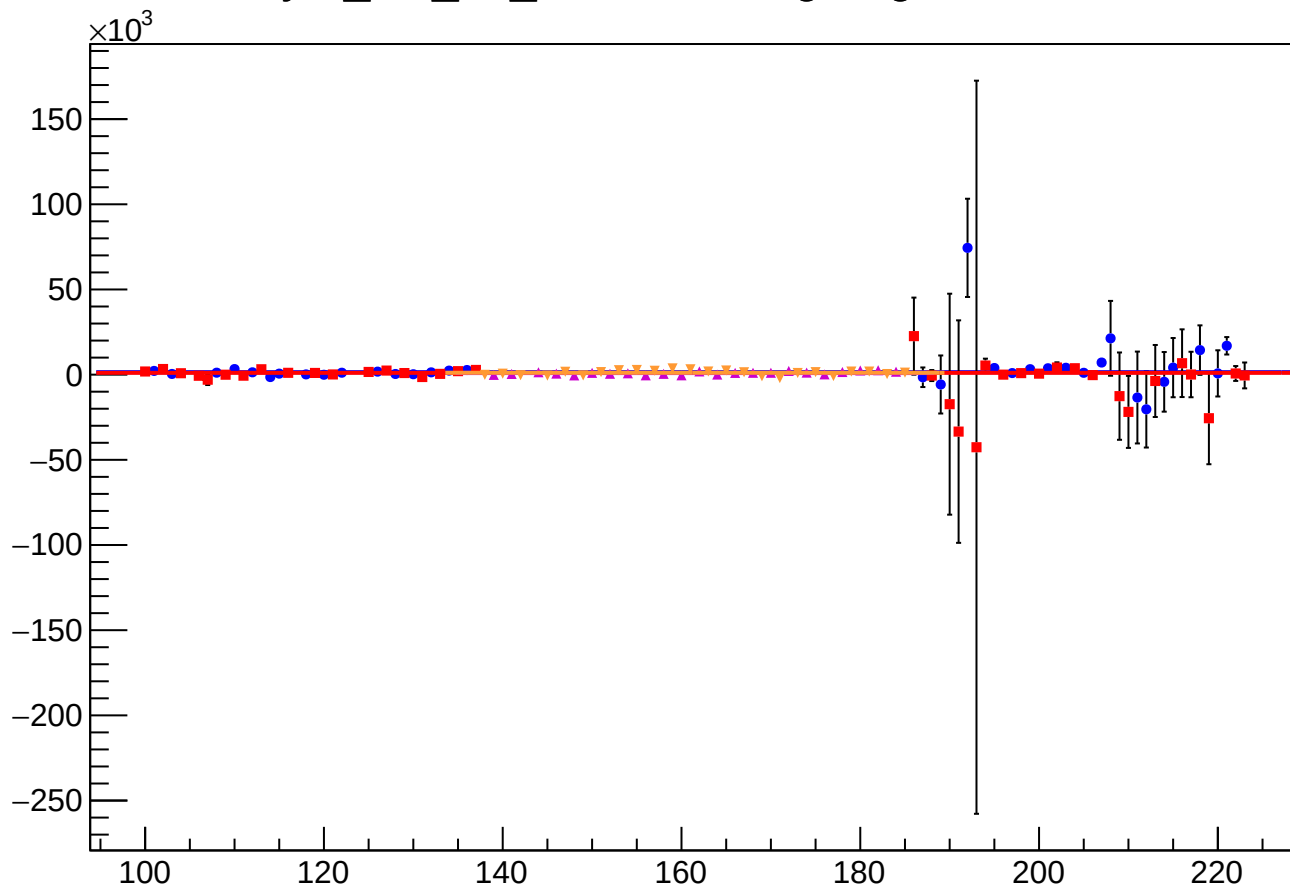
Right: 352.251 $\pm$ 0.049 χ^2 /NDF: 20346395.4/71

In: 528.865 $\pm$ 0.066 χ^2 /NDF: 7124662.2/56

Out: 376.771 $\pm$ 0.056 χ^2 /NDF: 26633366.1/61

All: 440.451 $\pm$ 0.043 χ^2 /NDF: 36816128.0/13

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1457.793 $\pm$ 279.891 χ^2 /NDF: 41.1/33

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

Right Out: 1064.163 $\pm$ 268.682 χ^2 /NDF: 30.6/37

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

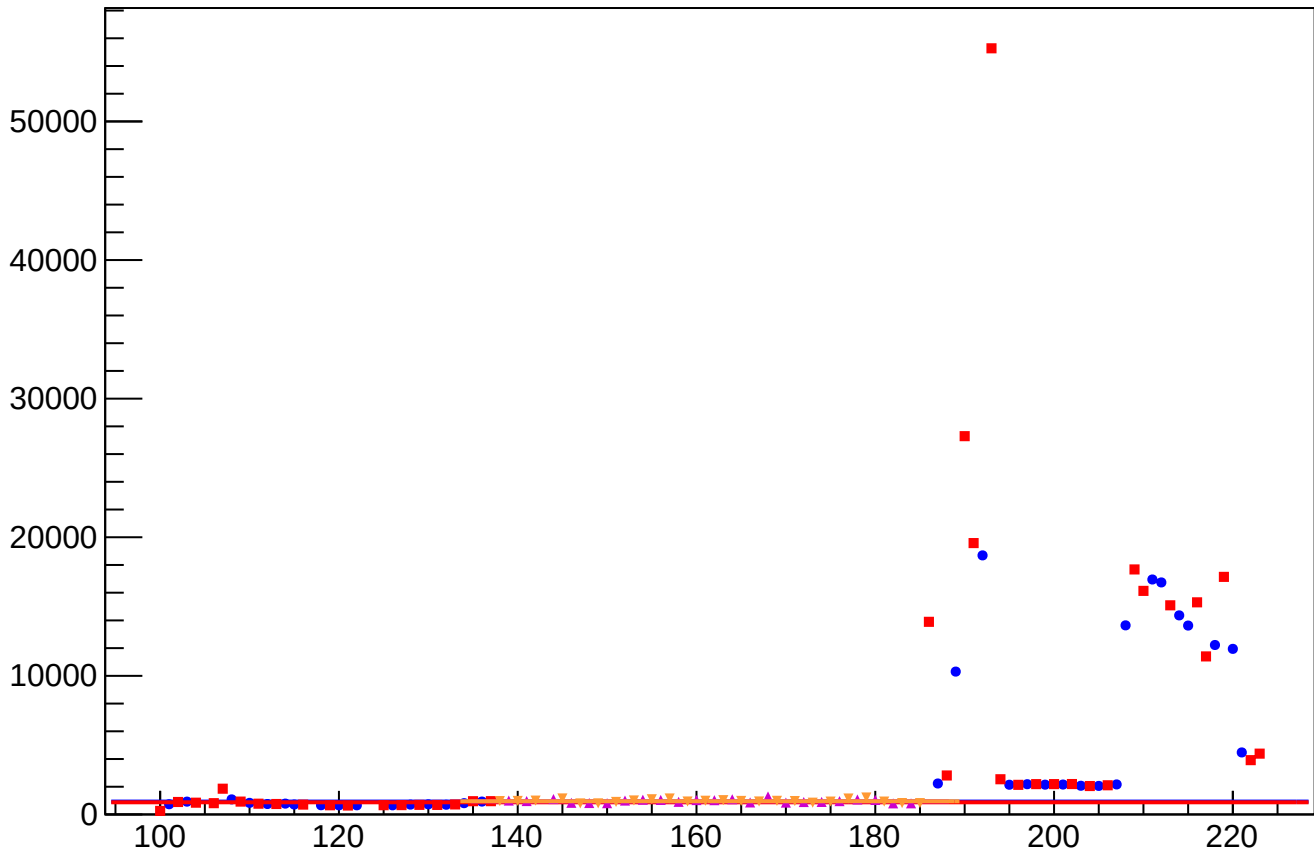
Right: 1252.939 $\pm$ 193.829 χ^2 /NDF: 72.7/71

In: 1138.513 $\pm$ 176.863 χ^2 /NDF: 58.4/56

Out: 1087.927 $\pm$ 174.153 χ^2 /NDF: 68.9/61

All: 1112.830 $\pm$ 124.092 χ^2 /NDF: 127.3/118

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 929.167+/-0.198 χ^2/NDF : 14152735.0/33

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

Right Out: 877.335+/-0.190 χ^2/NDF : 14390388.2/37

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

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

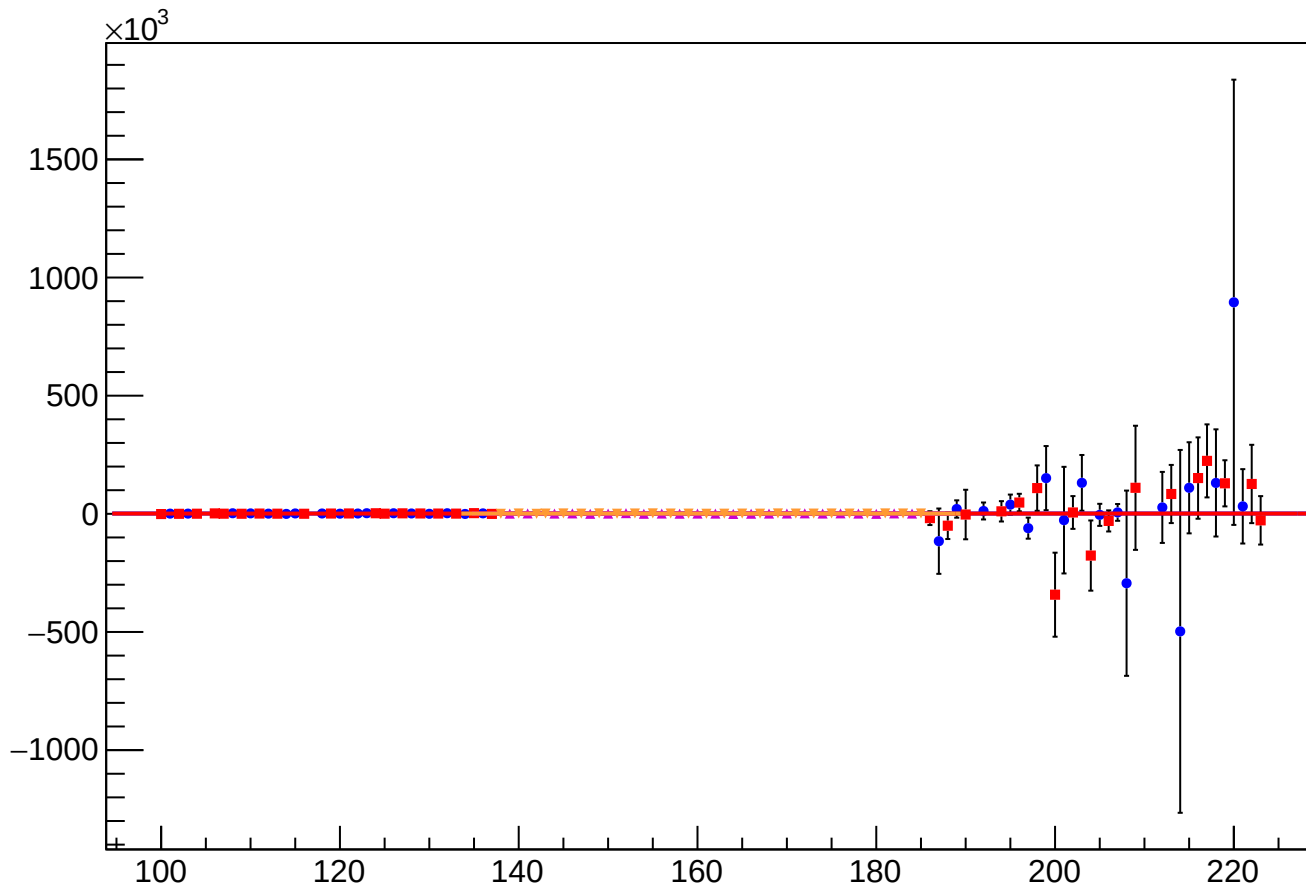
Right: 902.192+/-0.137 χ^2/NDF : 28578818.3/71

In: 939.303+/-0.125 χ^2/NDF : 14658544.3/56

Out: 921.664+/-0.123 χ^2/NDF : 14944483.5/61

All: 930.347+/-0.088 χ^2/NDF : 29613128.4/11

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.483 $\pm$ 218.578 χ^2 /NDF: 21.7/33

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

Right Out: 1041.181 $\pm$ 212.060 χ^2 /NDF: 29.2/35

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

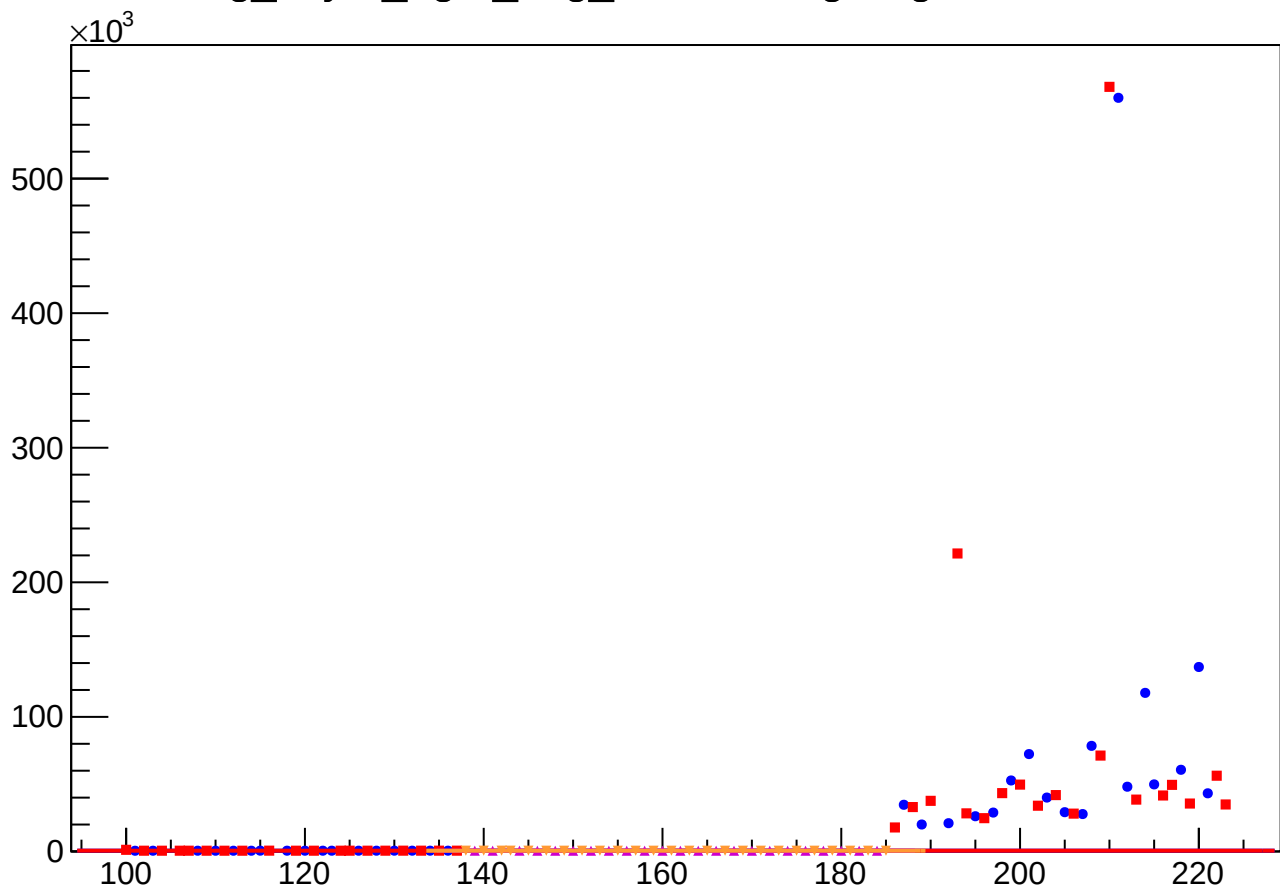
Right: 1179.030 $\pm$ 152.201 χ^2 /NDF: 51.7/69

In: 1178.434 $\pm$ 113.721 χ^2 /NDF:52.3/56

Out: 1064.794 $\pm$ 110.639 χ^2 /NDF:44.3/60

All: 1120.053 $\pm$ 79.301 χ^2 /NDF: 97.1/117

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.887 $\pm$ 0.155 χ^2 /NDF: 6684472.1/34

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

Right Out: 570.462 $\pm$ 0.150 χ^2 /NDF: 7024906.8/37

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

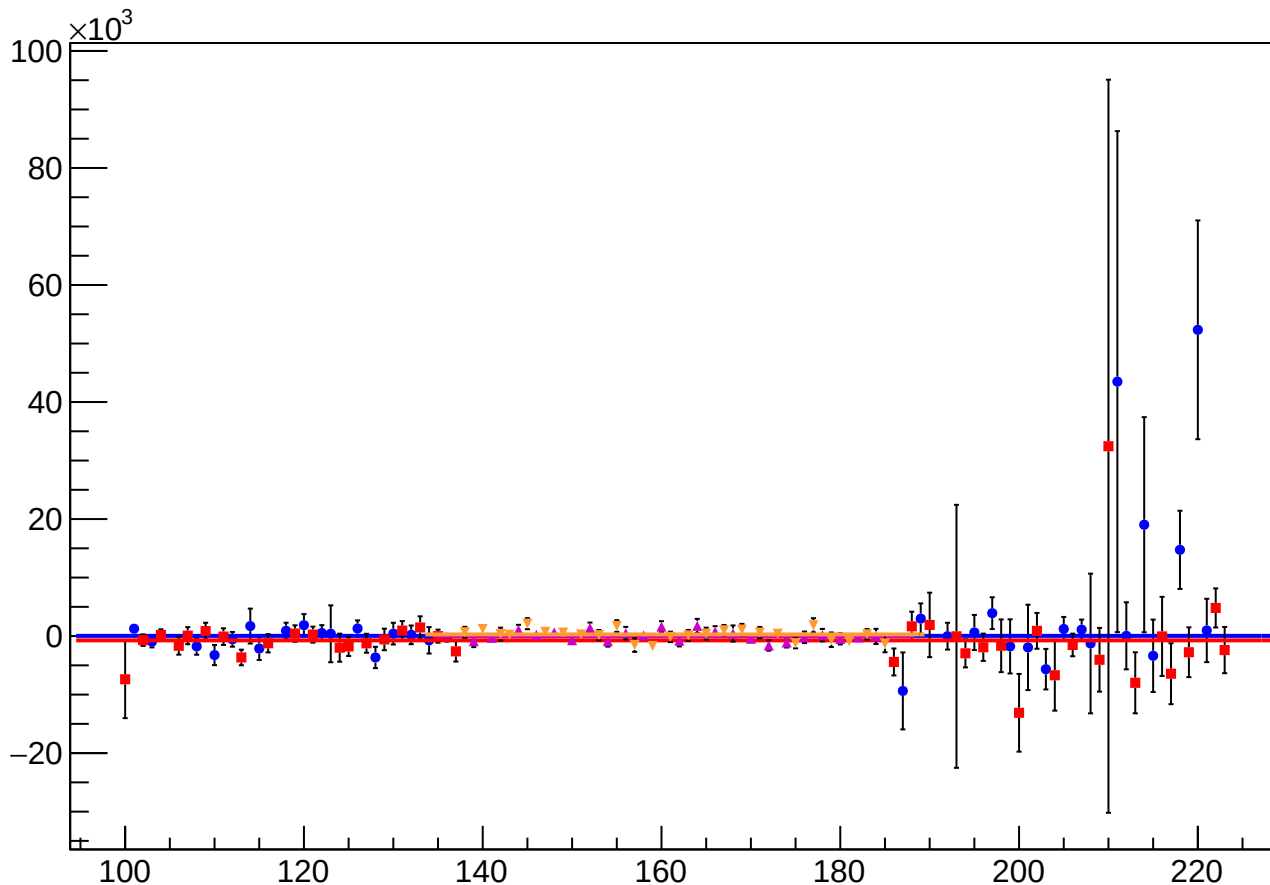
Right: 569.698 $\pm$ 0.108 χ^2 /NDF: 13709432.4/72

In: 560.195 $\pm$ 0.080 χ^2 /NDF:6700018.0/57

Out: 561.053 $\pm$ 0.078 χ^2 /NDF:7045069.4/62

All: 560.636 $\pm$ 0.056 χ^2 /NDF: 13745146.0/12

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: 38.831 ± 305.168 $\chi^2/\text{NDF}: 41.4/34$

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

Right Out: -731.136 ± 307.587 $\chi^2/\text{NDF}: 31.6/37$

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

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

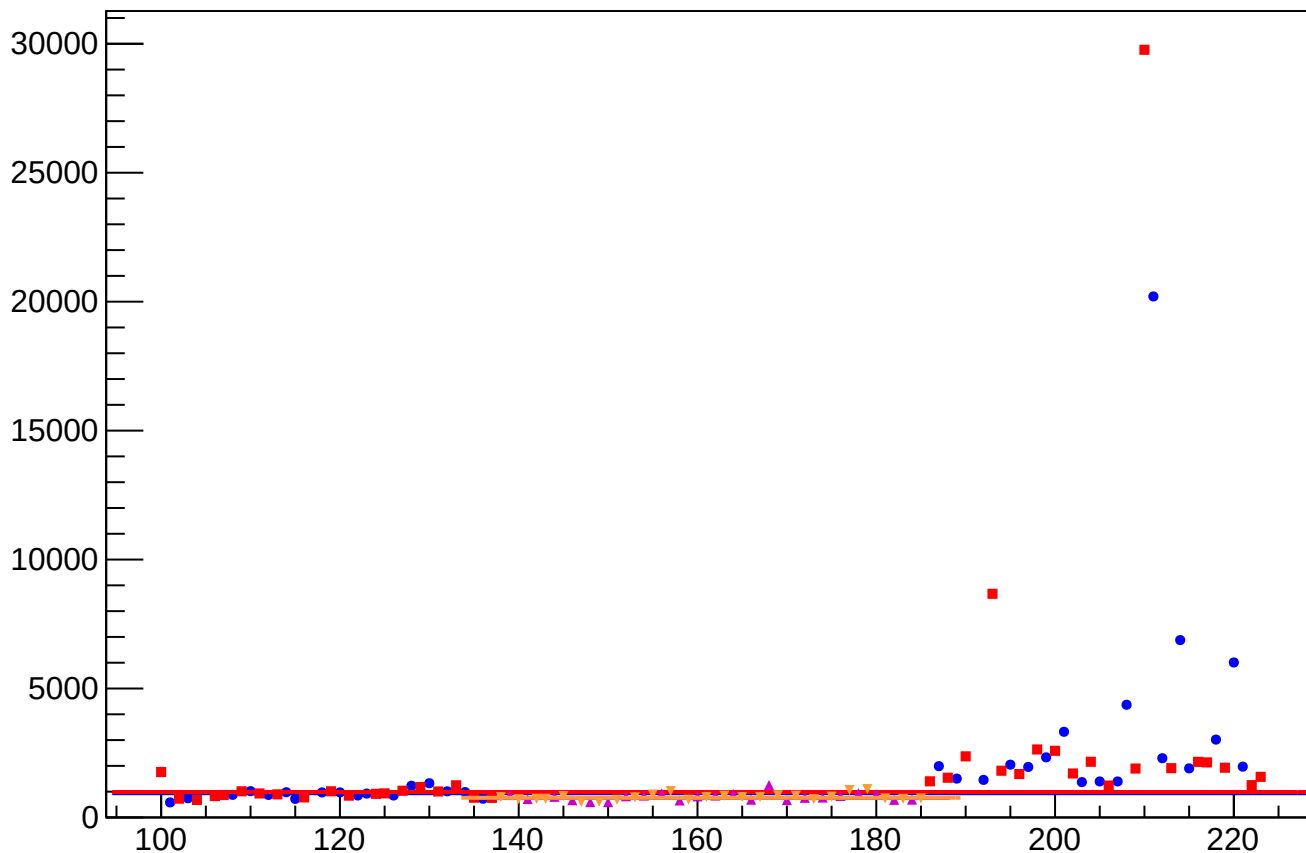
Right: -343.113 ± 216.637 $\chi^2/\text{NDF}: 76.1/72$

In: 4.269 ± 157.185 $\chi^2/\text{NDF}: 61.6/57$

Out: 22.552 ± 155.626 $\chi^2/\text{NDF}: 66.3/62$

All: 13.502 ± 110.591 $\chi^2/\text{NDF}: 127.9/120$

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 940.133+/-0.216 χ^2/NDF : 3691750.2/34

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

Right Out: 987.324+/-0.217 χ^2/NDF : 3072111.0/37

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

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

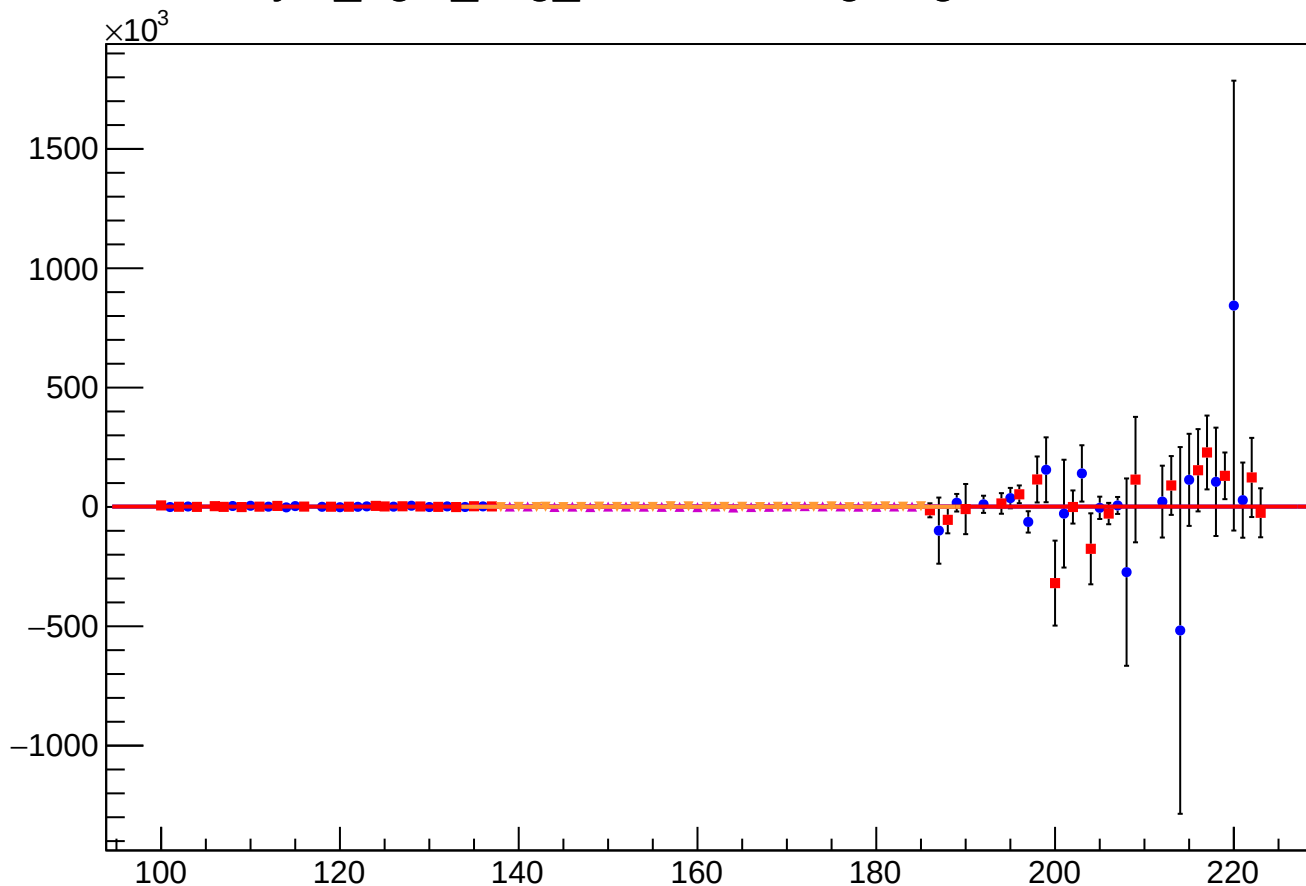
Right: 963.542+/-0.153 χ^2/NDF : 6787585.8/72

In: 803.455+/-0.111 χ^2/NDF : 5169651.2/57

Out: 820.489+/-0.110 χ^2/NDF : 4616667.4/62

All: 812.057+/-0.078 χ^2/NDF : 9798179.8/120

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1502.157+/-402.532 χ^2/NDF : 25.7/33

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

Right Out: 1491.678+/-400.586 χ^2/NDF : 27.7/35

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

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

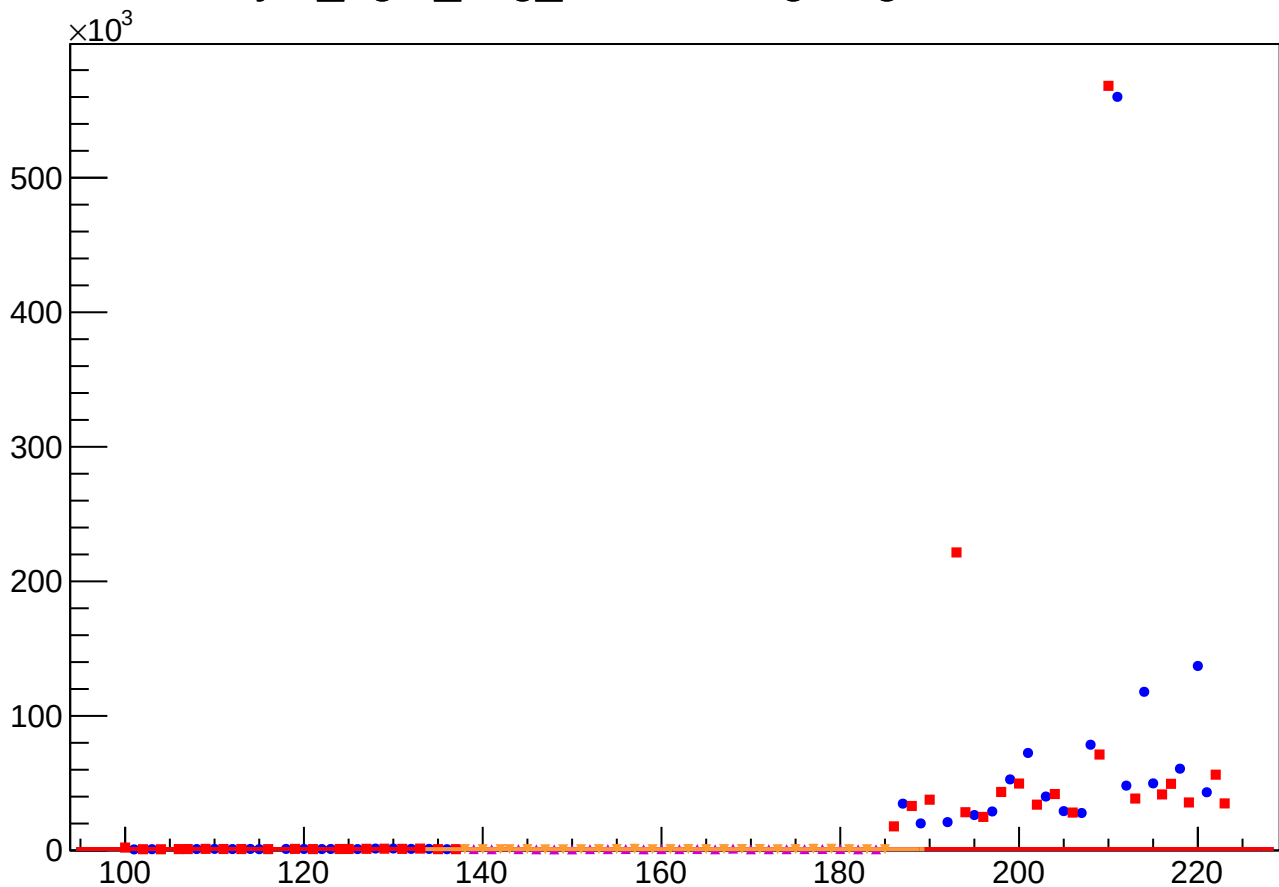
Right: 1496.892+/-283.943 χ^2/NDF : 53.4/69

In: 1217.556+/-199.742 χ^2/NDF : 51.7/56

Out: 920.648+/-196.528 χ^2/NDF : 51.9/60

All: 1066.694+/-140.089 χ^2/NDF : 104.8/117

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1039.854+/-0.285 χ^2/NDF : 6806189.3/34

Left Out: 962.256+/-0.159 χ^2/NDF : 362937.6/24

Right Out: 1075.850+/-0.283 χ^2/NDF : 6989880.7/37

Left In: 954.643+/-0.163 χ^2/NDF : 443395.0/22

Left: 958.525+/-0.114 χ^2/NDF : 807449.1/47

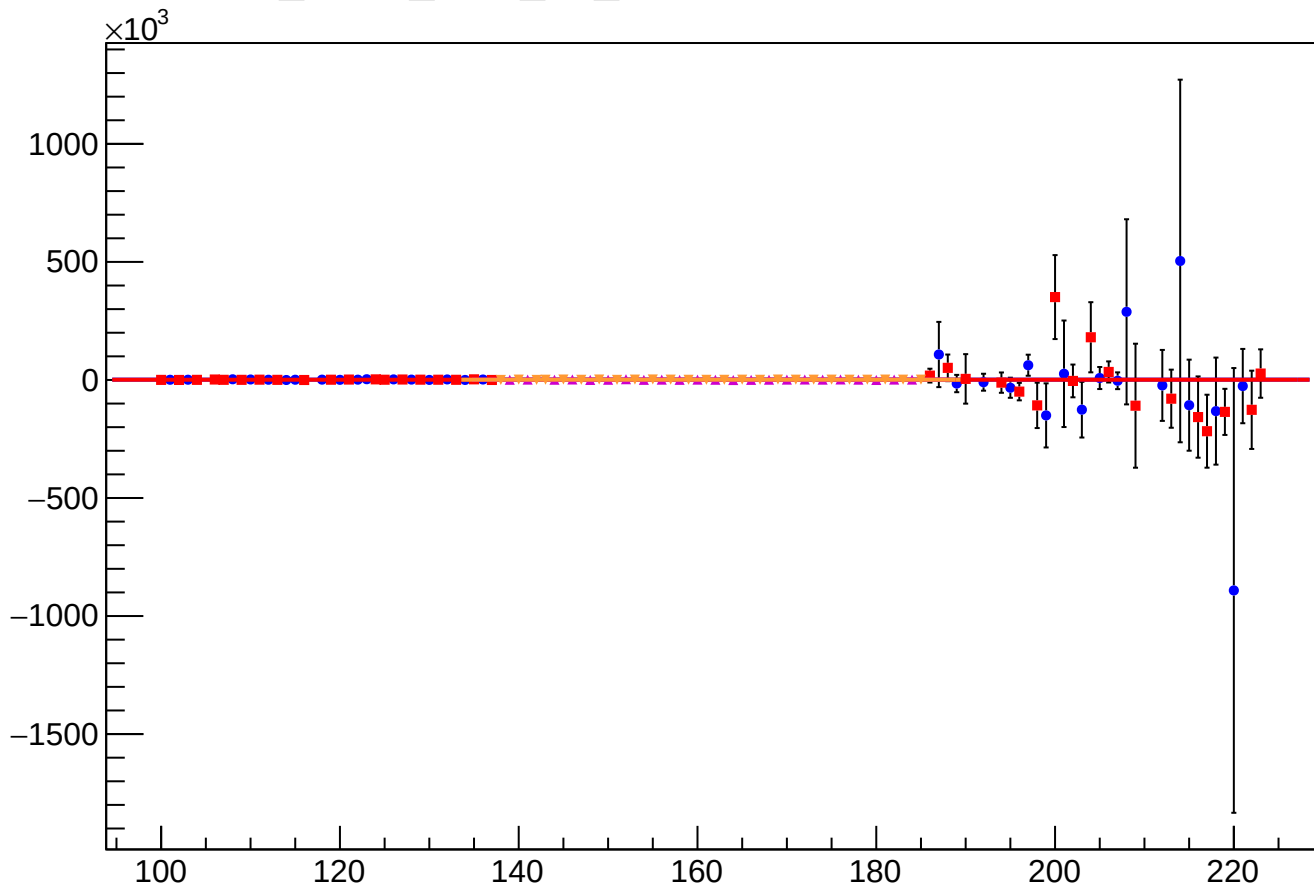
Right: 1057.940+/-0.201 χ^2/NDF : 13804105.7/72

In: 975.625+/-0.141 χ^2/NDF : 7317139.9/57

Out: 989.597+/-0.139 χ^2/NDF : 7474936.3/62

All: 982.724+/-0.099 χ^2/NDF : 14797048.6/12

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.113 $\pm$ 218.833 χ^2 /NDF: 20.5/33

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

Right Out: 964.485 $\pm$ 208.595 χ^2 /NDF: 28.5/35

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

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

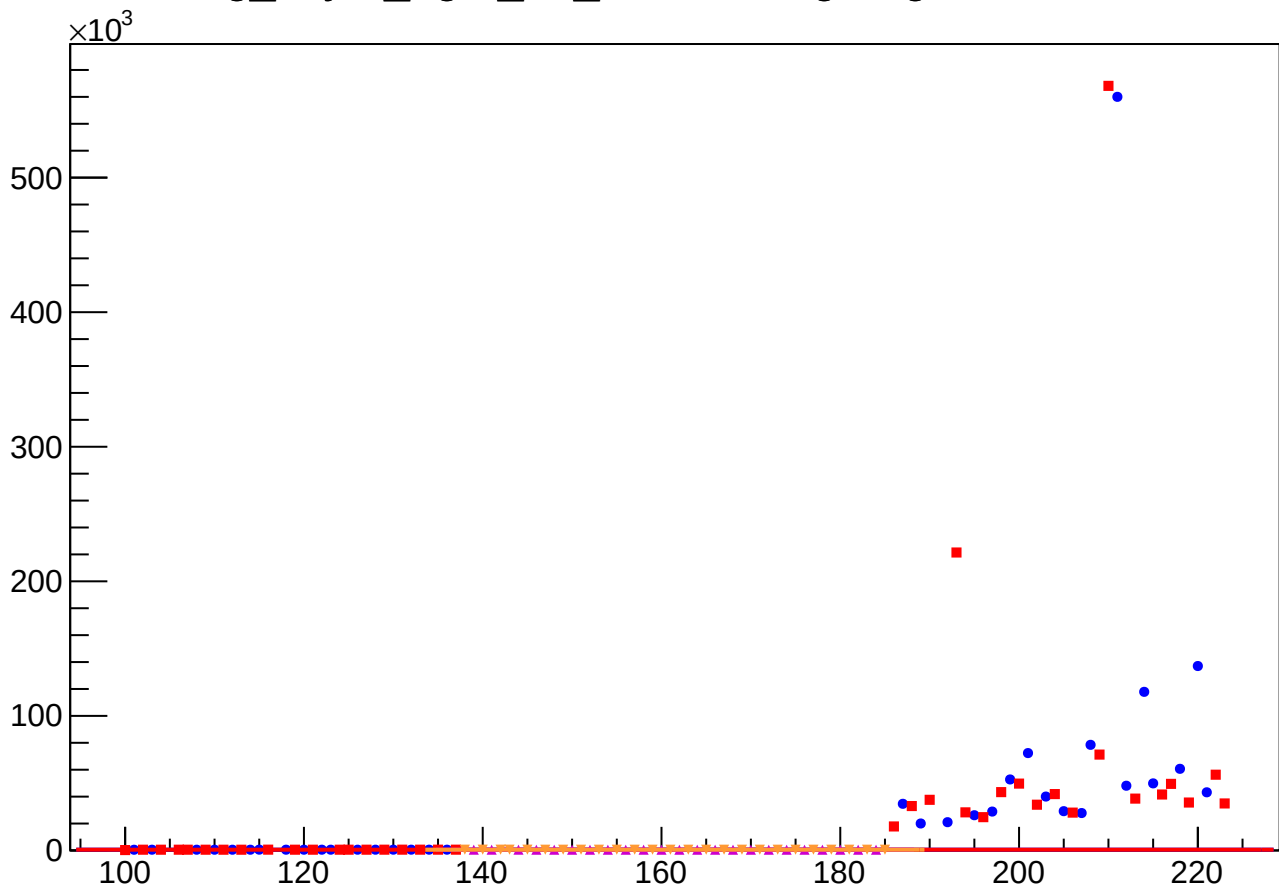
Right: 1145.212 $\pm$ 150.989 χ^2 /NDF: 50.5/69

In: 1231.336 $\pm$ 113.850 χ^2 /NDF:53.0/56

Out: 1053.247 $\pm$ 110.219 χ^2 /NDF:43.7/60

All: 1139.406 $\pm$ 79.189 χ^2 /NDF: 97.9/117

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.551 $\pm$ 0.155 χ^2 /NDF: 6684640.2/34

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

Right Out: 559.432 $\pm$ 0.147 χ^2 /NDF: 7113384.1/37

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

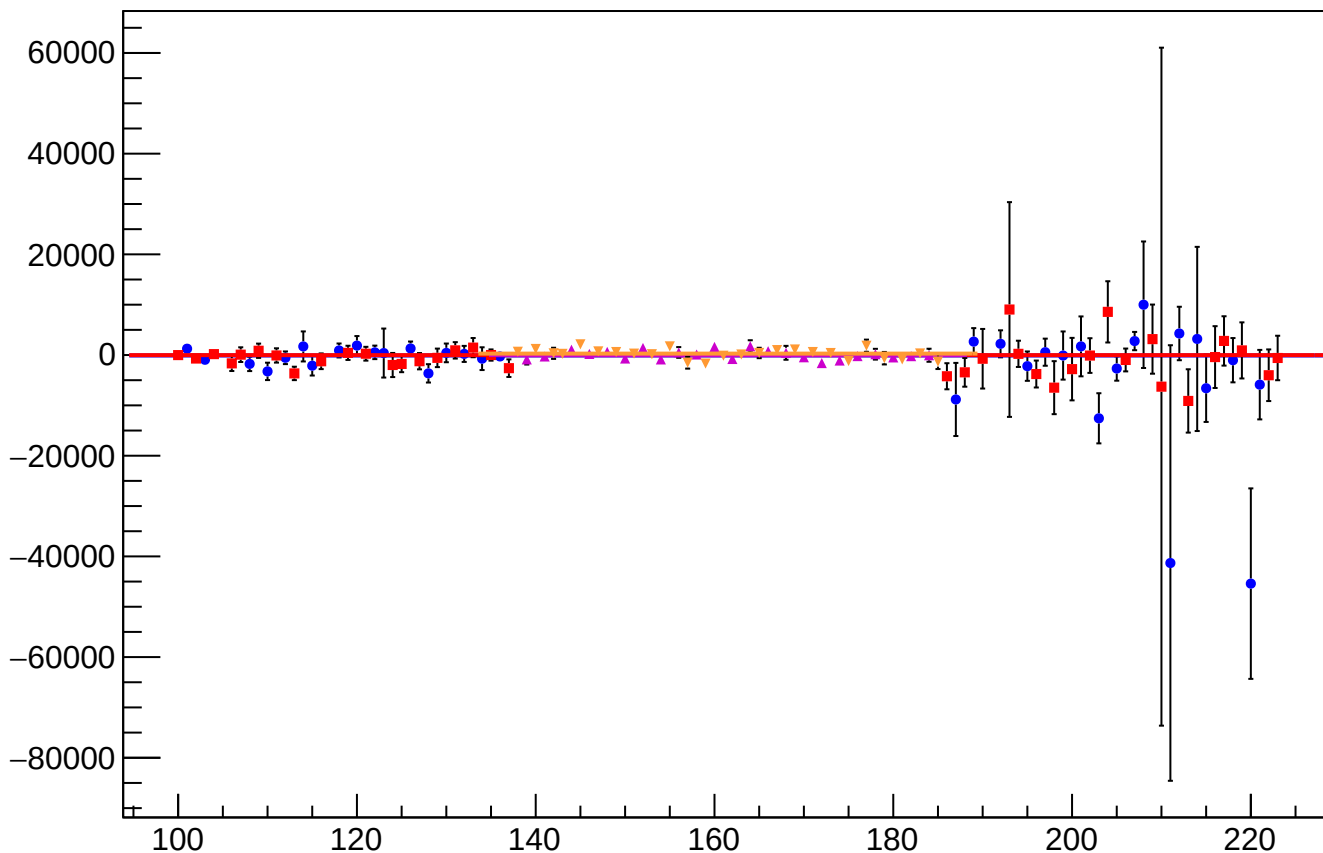
Right: 564.249 $\pm$ 0.107 χ^2 /NDF: 13800264.8/72

In: 560.832 $\pm$ 0.081 χ^2 /NDF: 6700269.8/57

Out: 558.471 $\pm$ 0.078 χ^2 /NDF: 7128228.2/62

All: 559.613 $\pm$ 0.056 χ^2 /NDF: 13828942.0/12

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -90.050 ± 307.790 $\chi^2/\text{NDF}: 40.5/34$

Left Out: 281.402 ± 180.478 $\chi^2/\text{NDF}: 26.8/24$

Right Out: -23.119 ± 38.920 $\chi^2/\text{NDF}: 29.3/37$

Left In: -7.306 ± 183.473 $\chi^2/\text{NDF}: 20.1/22$

Left: 139.424 ± 128.663 $\chi^2/\text{NDF}: 48.2/47$

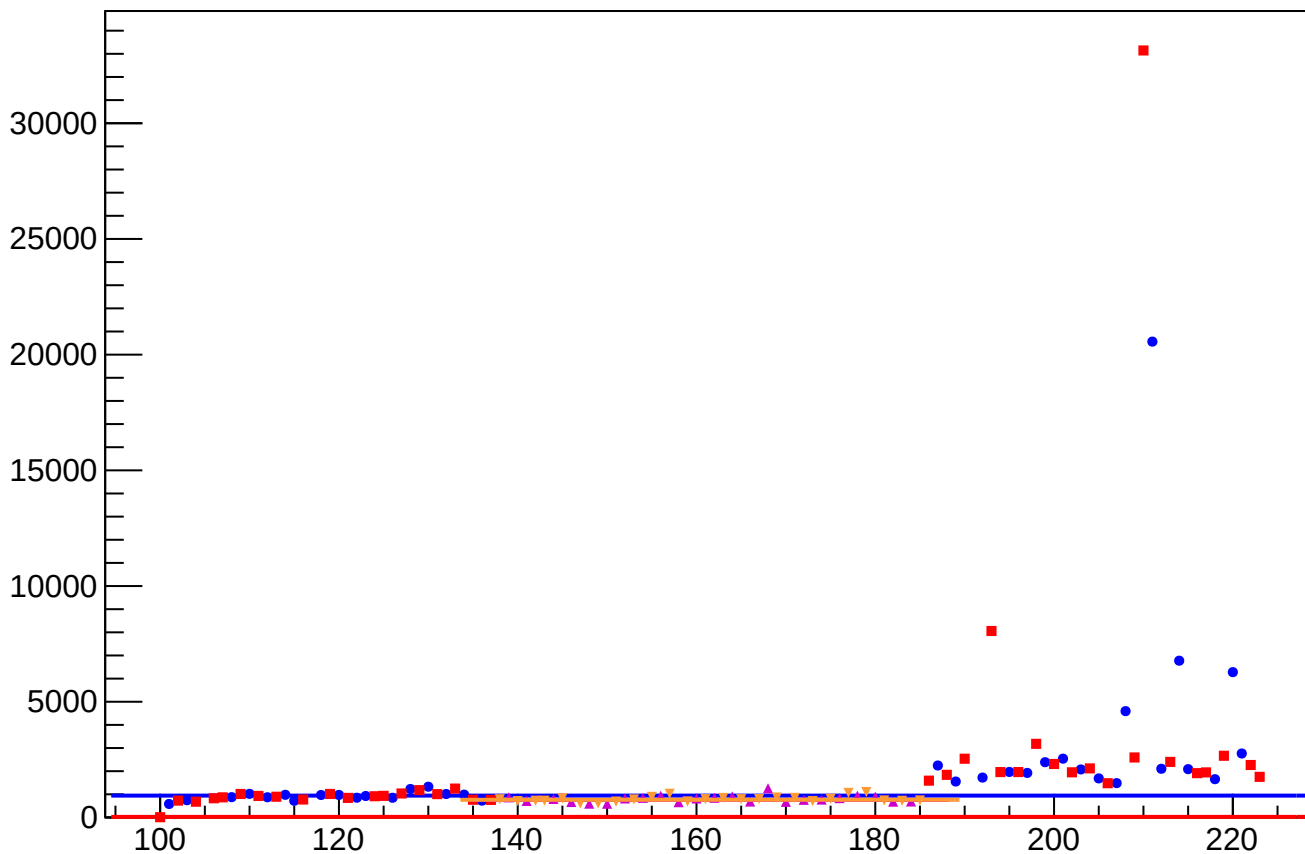
Right: -24.172 ± 38.612 $\chi^2/\text{NDF}: 69.9/72$

In: -28.999 ± 157.597 $\chi^2/\text{NDF}: 60.7/57$

Out: -9.587 ± 38.045 $\chi^2/\text{NDF}: 58.8/62$

All: -10.656 ± 36.983 $\chi^2/\text{NDF}: 119.6/120$

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 944.244+/-0.218

χ^2/NDF : 3822033.2/34

Left Out: 763.307+/-0.128

χ^2/NDF : 753728.9/24

Right Out: 25.243+/-0.028

χ^2/NDF : 23234686.5/37

Left In: 754.483+/-0.130

χ^2/NDF : 931536.8/22

Left: 758.967+/-0.091

χ^2/NDF : 1687616.8/47

Right: 39.706+/-0.027

χ^2/NDF : 44606504.5/72

In: 804.234+/-0.111

χ^2/NDF : 5314483.6/57

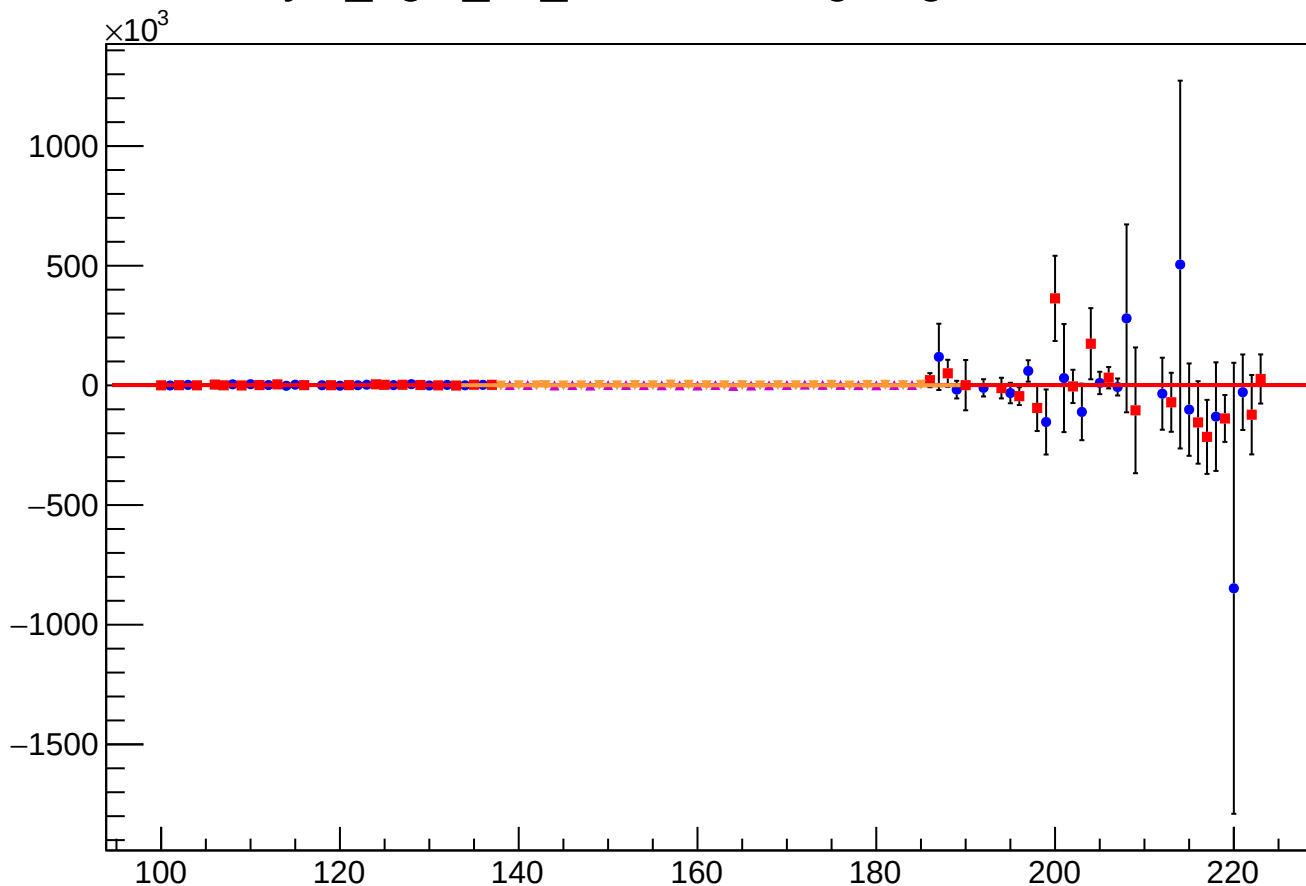
Out: 58.041+/-0.027

χ^2/NDF : 55949962.1/62

All: 99.133+/-0.026

χ^2/NDF : 103632261.3/12

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1514.490+/-402.755 χ^2/NDF : 26.0/33

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

Right Out: 1285.421+/-376.570 χ^2/NDF : 28.1/35

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

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

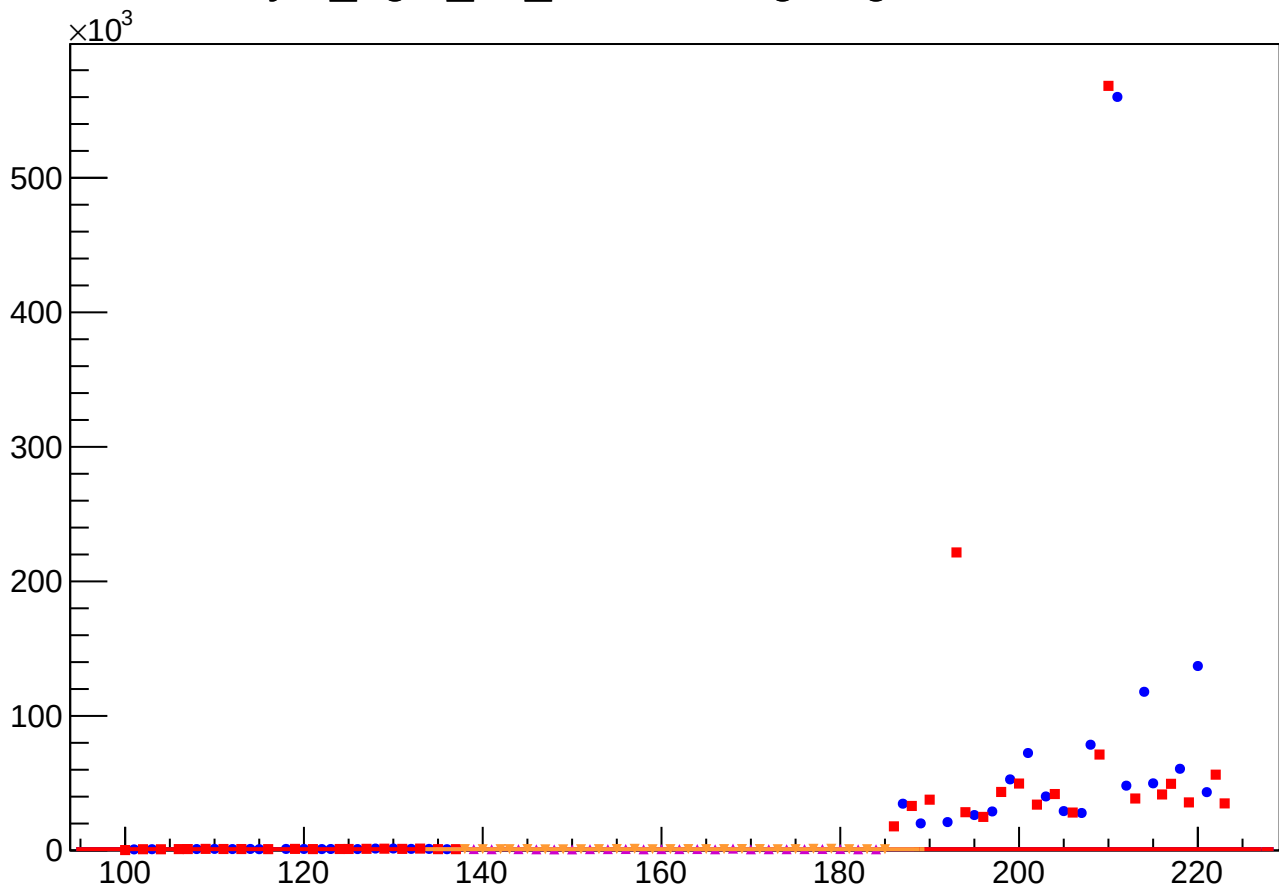
Right: 1392.268+/-275.067 χ^2/NDF : 54.3/69

In: 1259.583+/-199.877 χ^2/NDF : 50.8/56

Out: 886.188+/-193.564 χ^2/NDF : 49.9/60

All: 1066.896+/-139.049 χ^2/NDF : 102.5/117

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1040.438 $\pm$ 0.285 χ^2 /NDF: 6806958.4/34

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

Right Out: 980.059 $\pm$ 0.266 χ^2 /NDF: 7868816.6/37

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

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

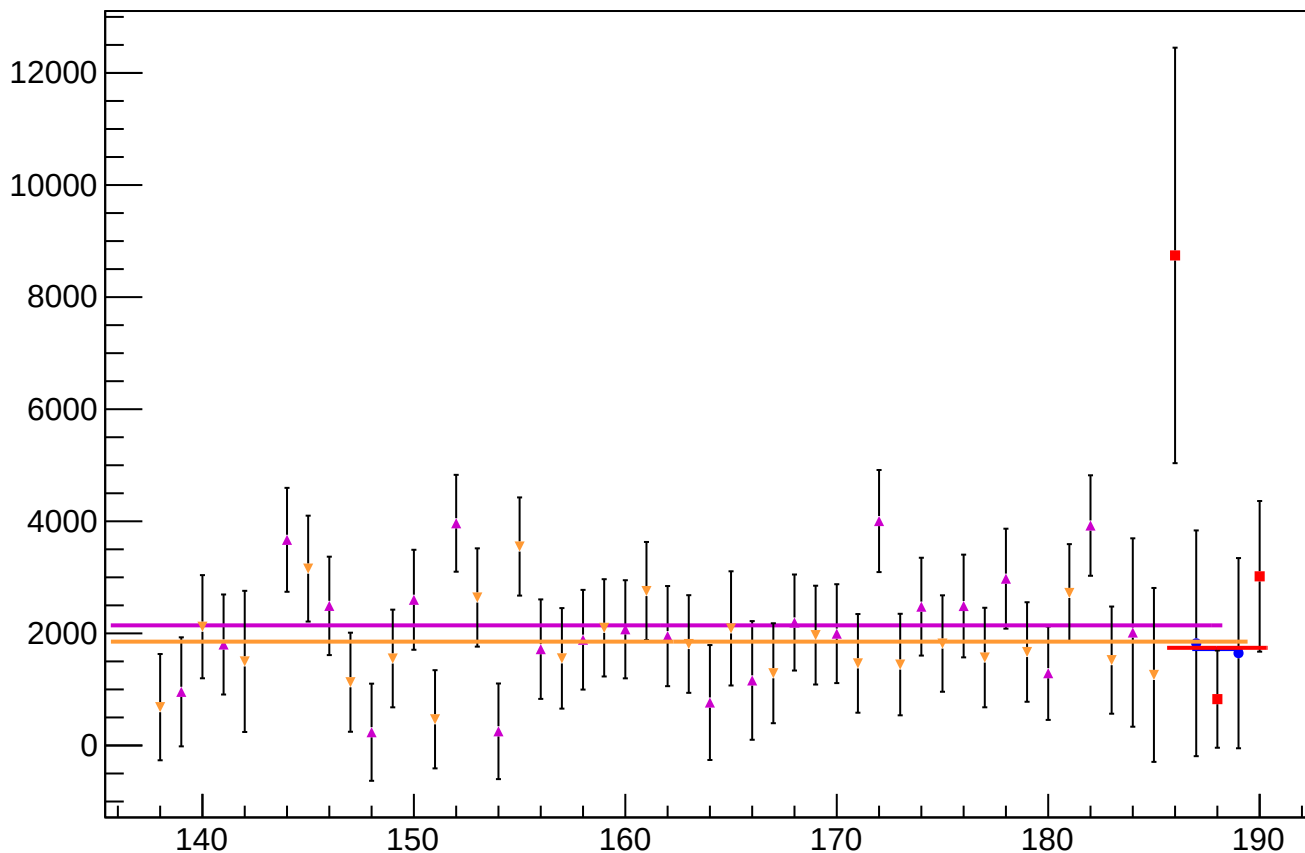
Right: 1008.222 $\pm$ 0.195 χ^2 /NDF: 14699758.0/72

In: 976.292 $\pm$ 0.141 χ^2 /NDF: 7317338.8/57

Out: 967.343 $\pm$ 0.137 χ^2 /NDF: 8234754.1/62

All: 971.674 $\pm$ 0.098 χ^2 /NDF: 15554161.7/12

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

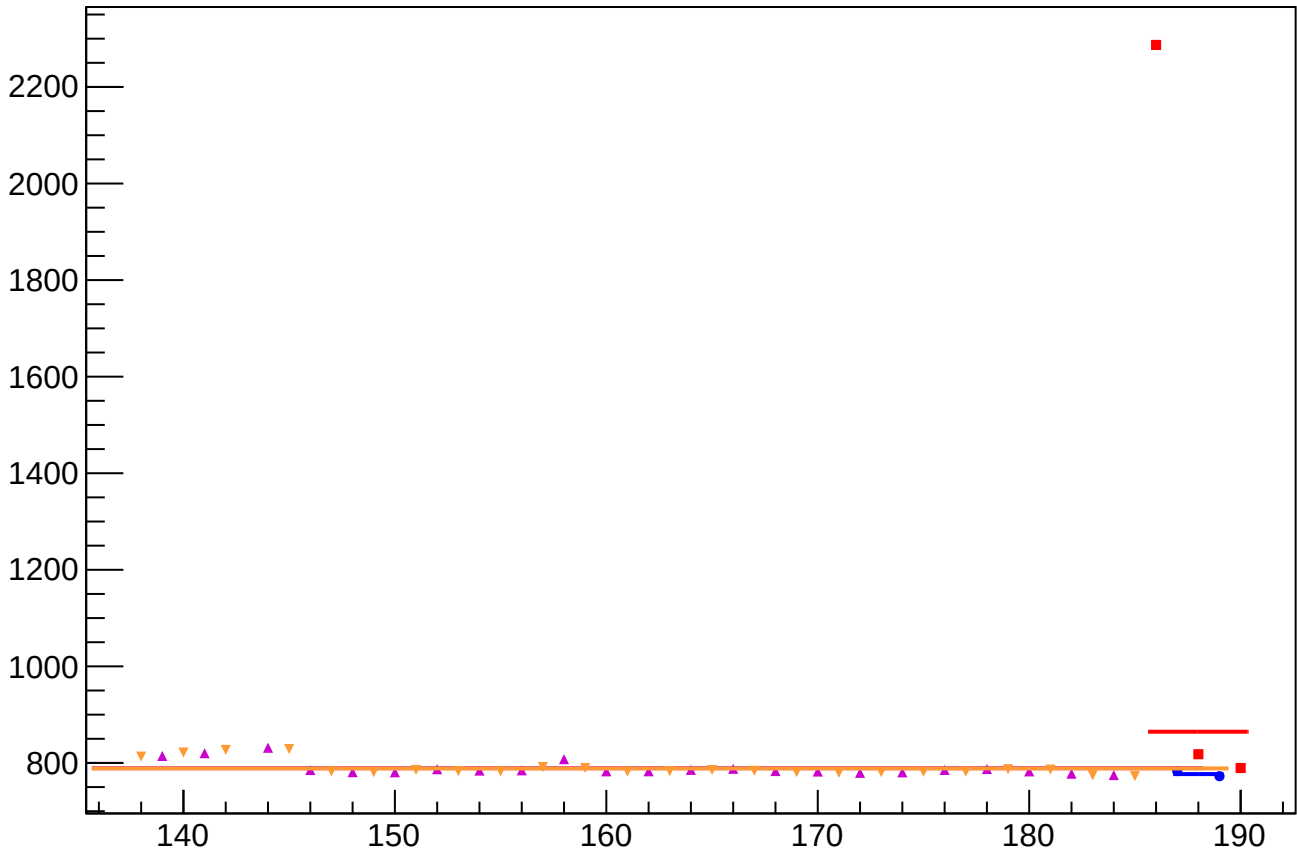
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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

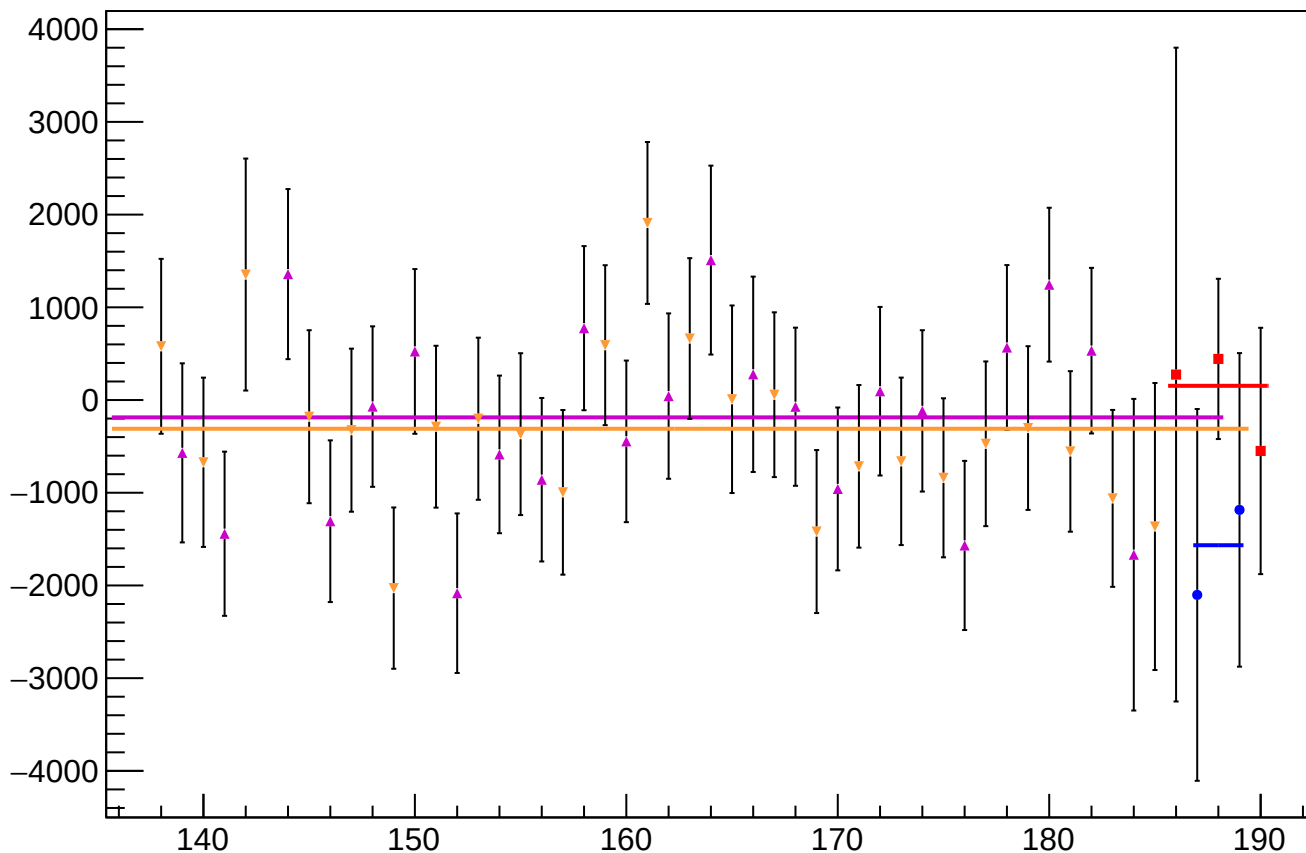
Right: 844.207+/-0.443 χ^2/NDF : 313539.0/4

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

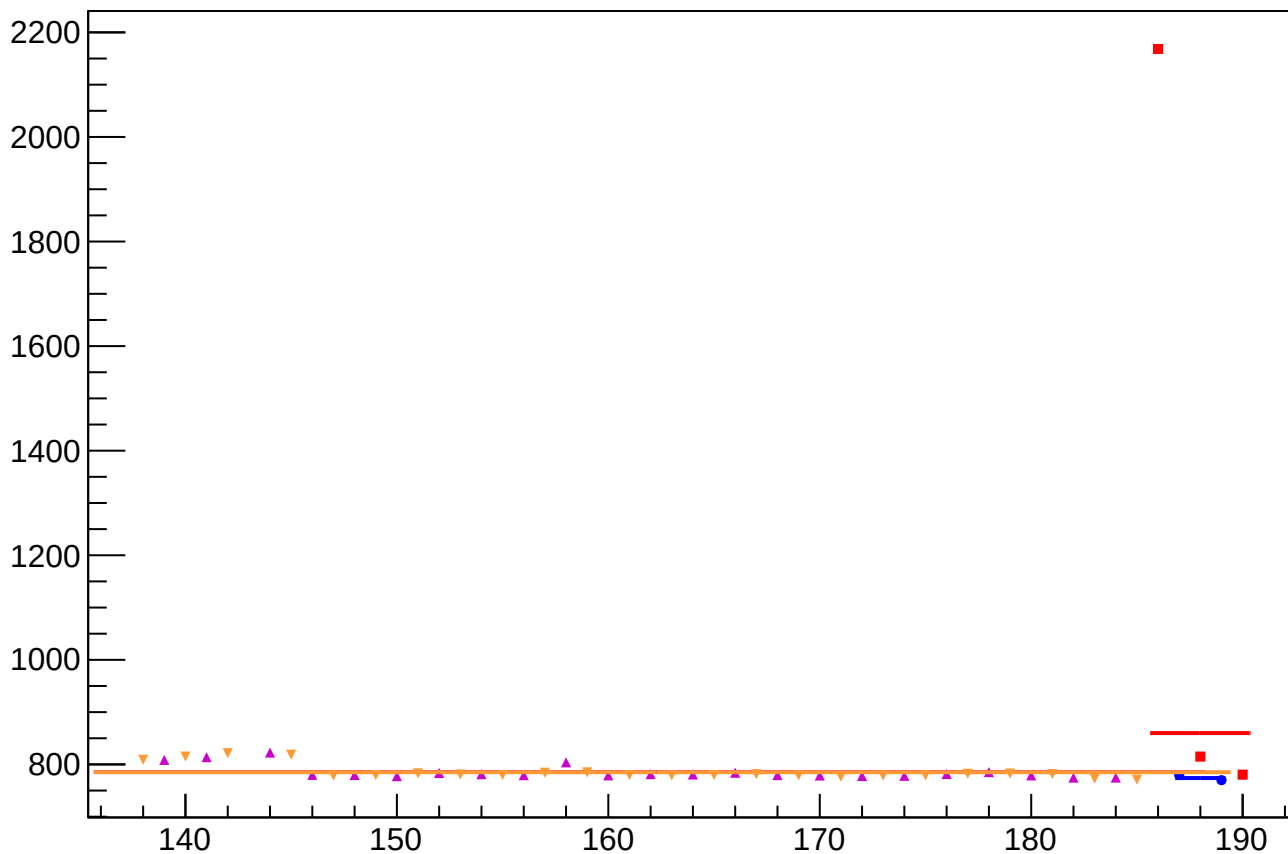
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

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

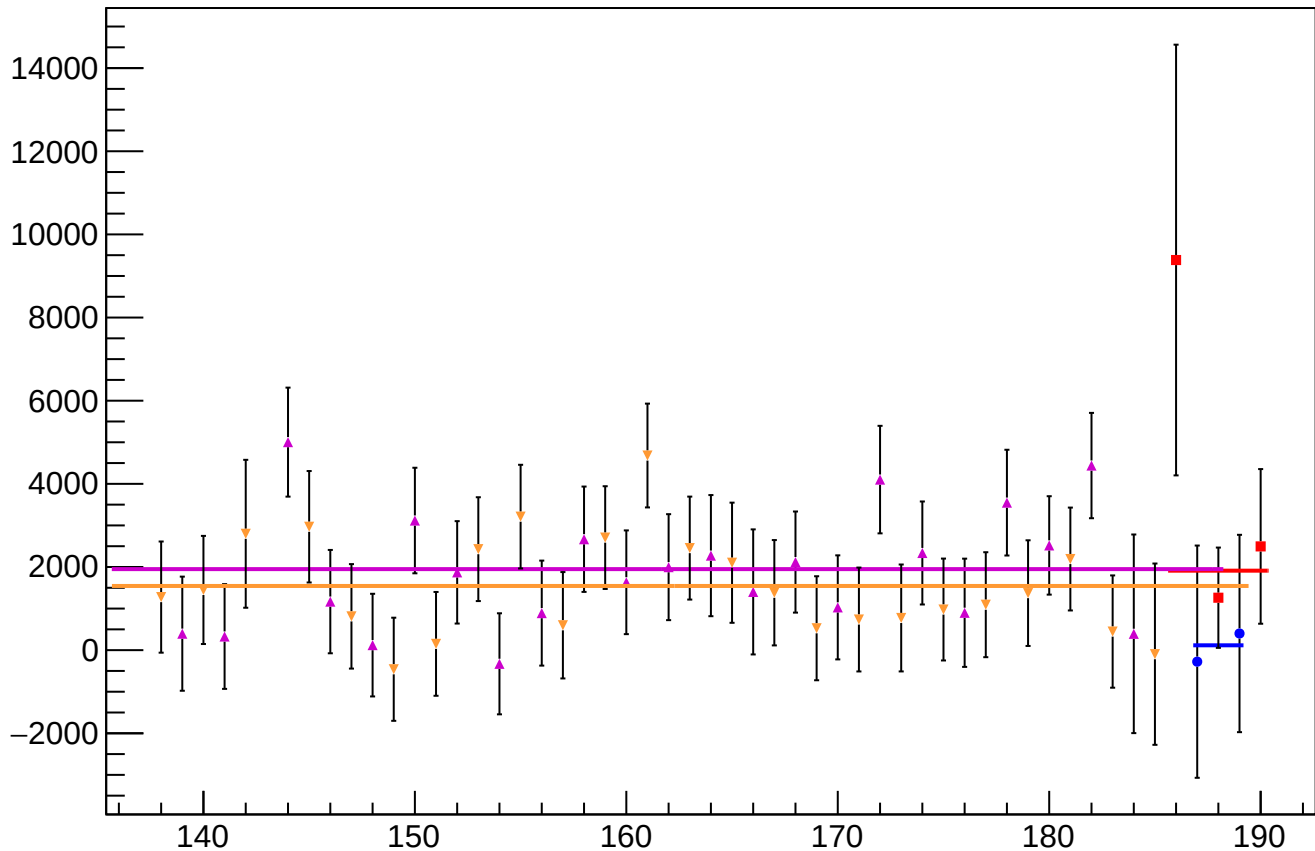
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

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

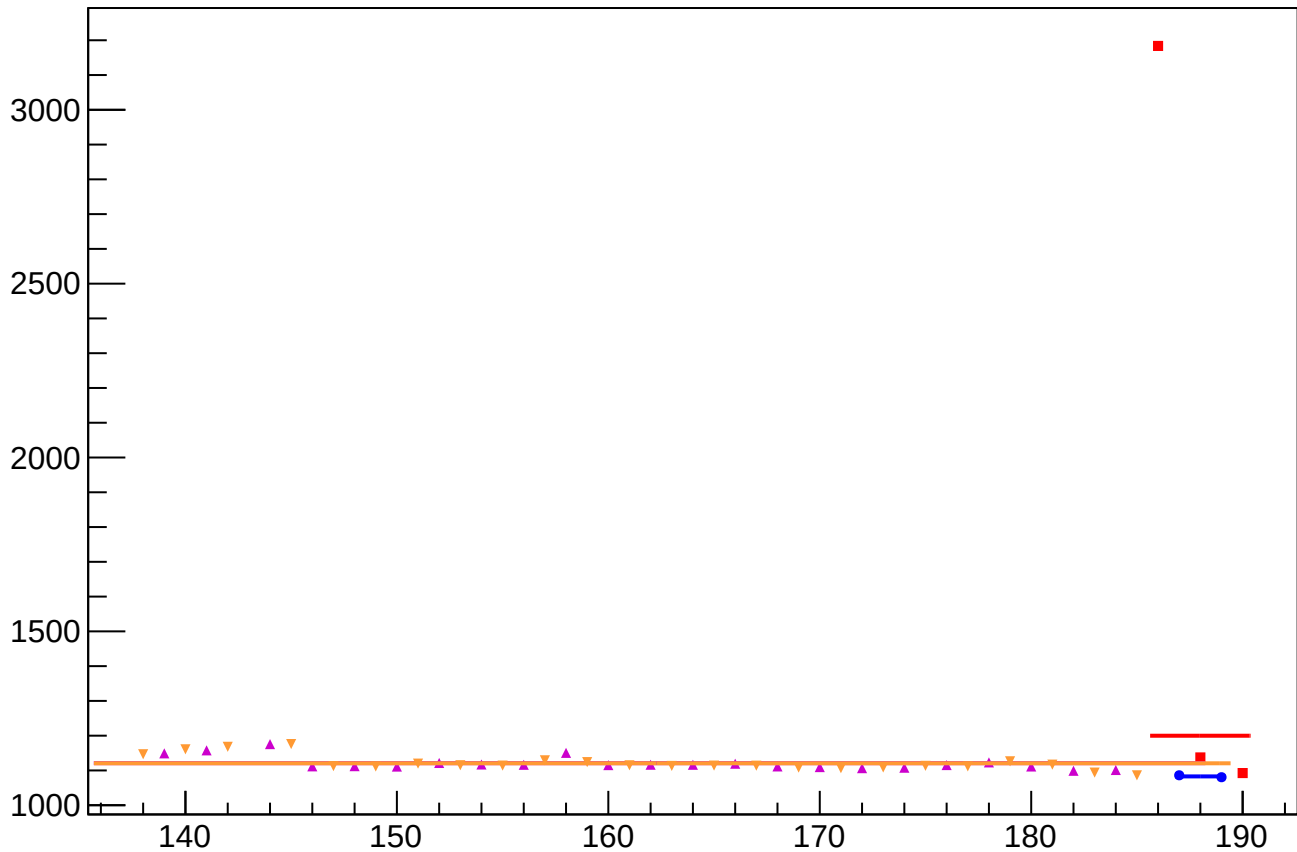
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

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+/-1.279 χ^2/NDF : 4.6/1

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

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

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

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

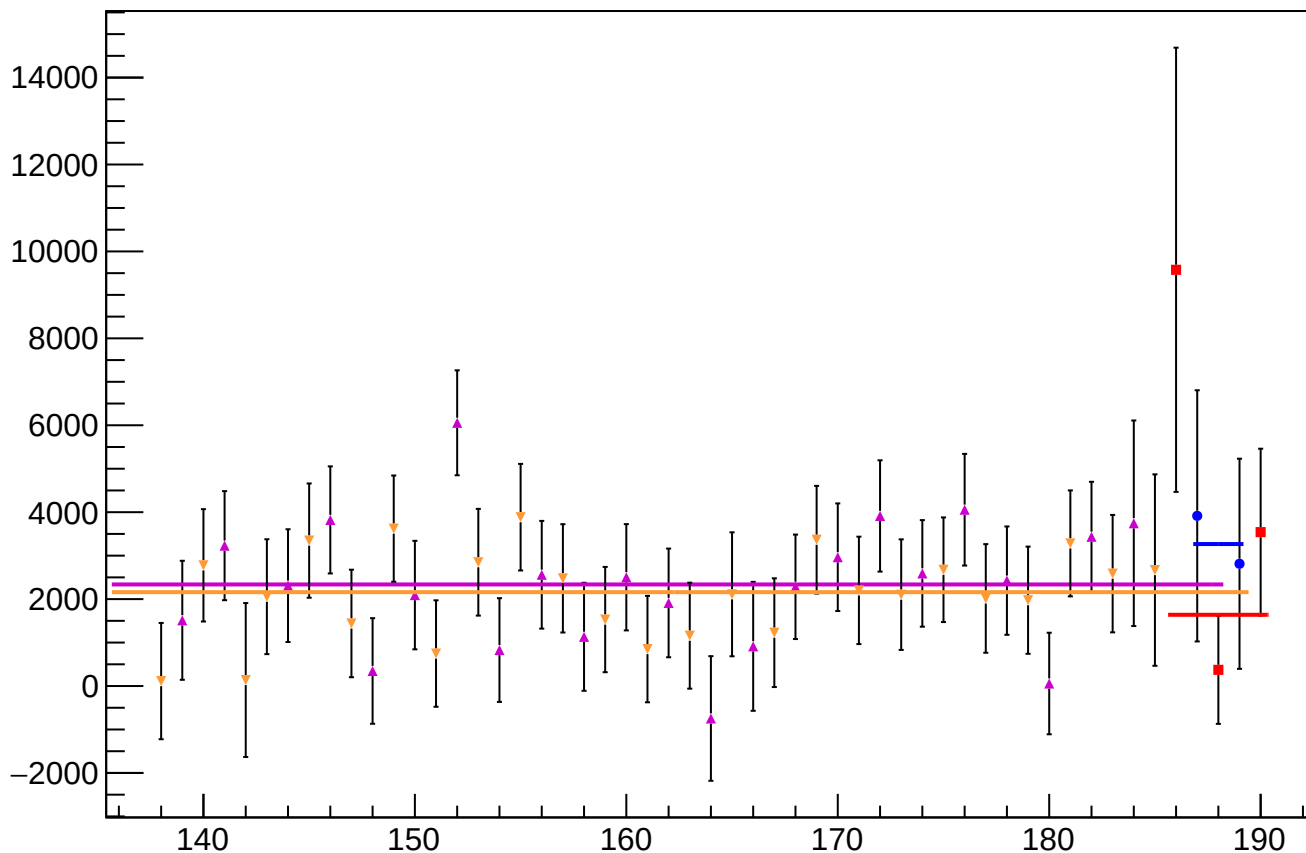
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

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

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

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

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

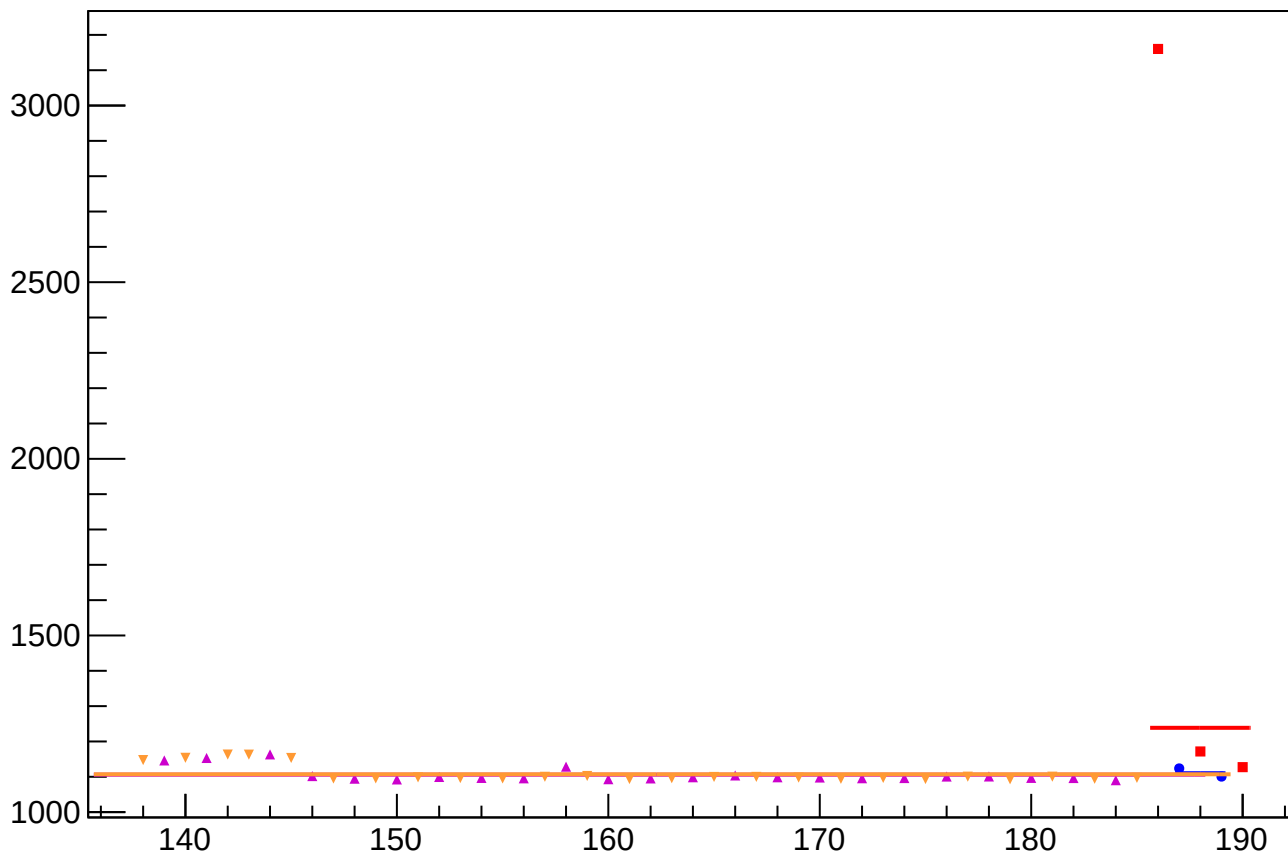
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



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

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

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

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

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

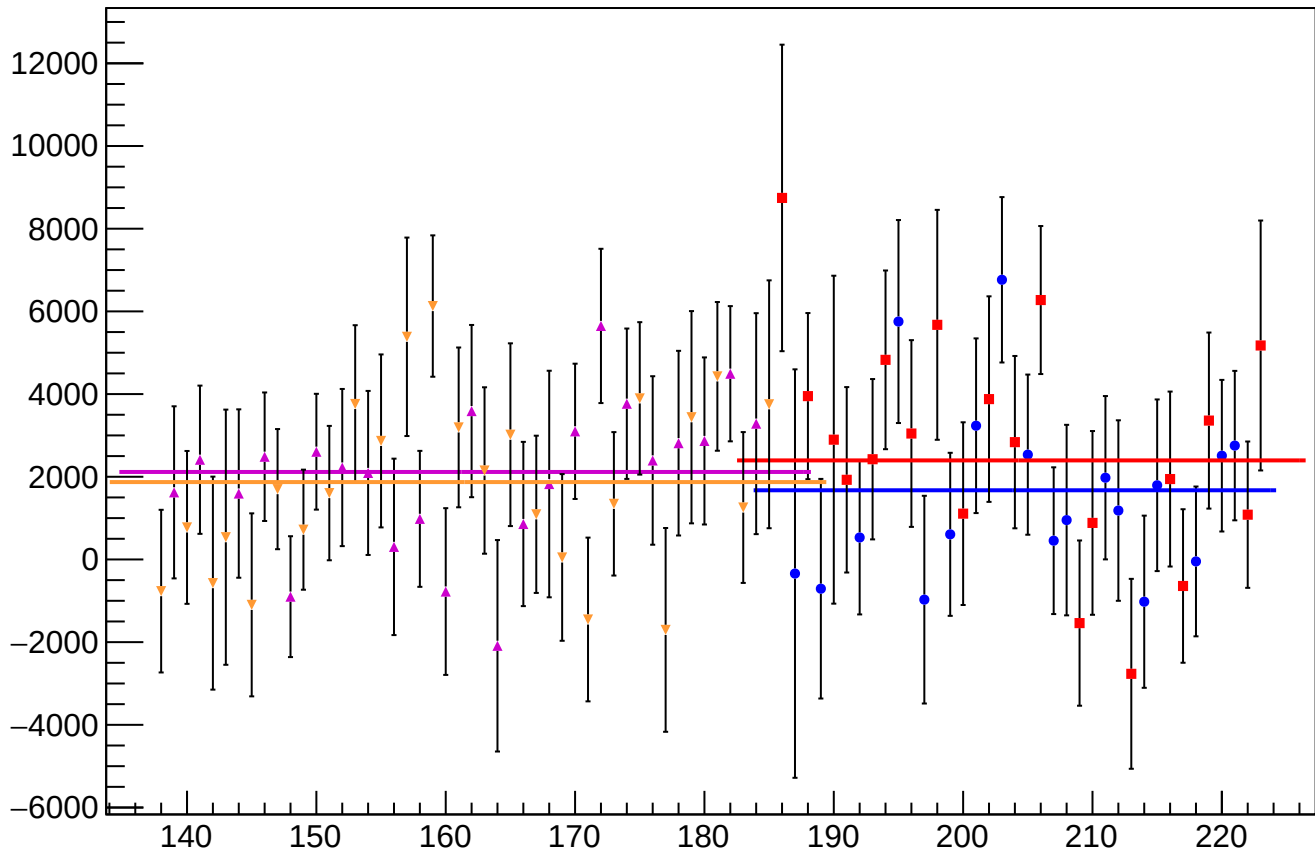
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 1673.212+/-491.667 χ^2/NDF : 16.5/17

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

Right Out: 2395.756+/-493.698 χ^2/NDF : 25.5/19

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

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

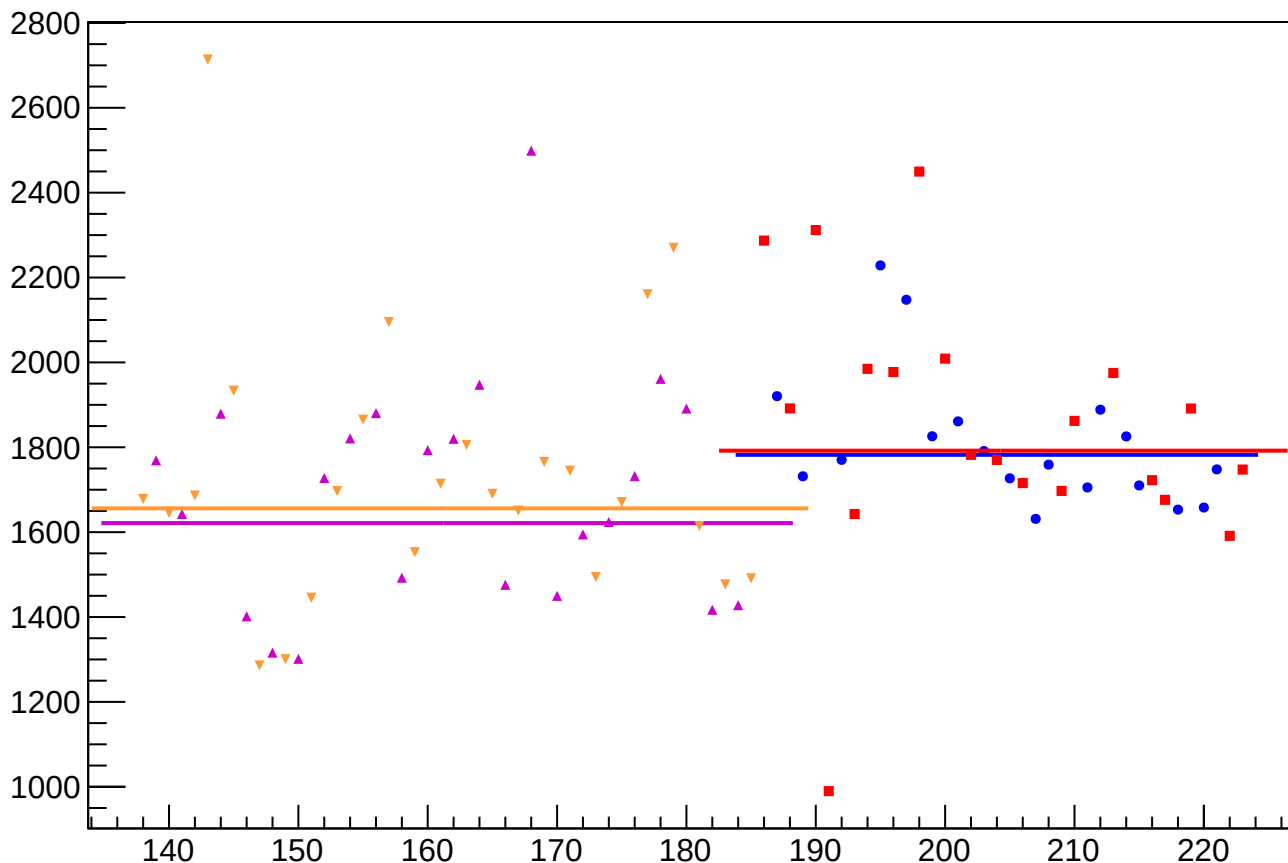
Right: 2032.995+/-348.377 χ^2/NDF : 43.1/37

In: 1943.455+/-306.981 χ^2/NDF : 35.8/40

Out: 2074.099+/-306.844 χ^2/NDF : 52.3/44

All: 2008.806+/-217.020 χ^2/NDF : 88.2/85

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1782.290+/-0.348 χ^2/NDF : 162024.3/17

Left Out: 1656.119+/-0.277 χ^2/NDF : 910573.4/24

Right Out: 1792.045+/-0.349 χ^2/NDF : 566898.7/19

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

Left: 1638.826+/-0.196 χ^2/NDF : 1693706.9/47

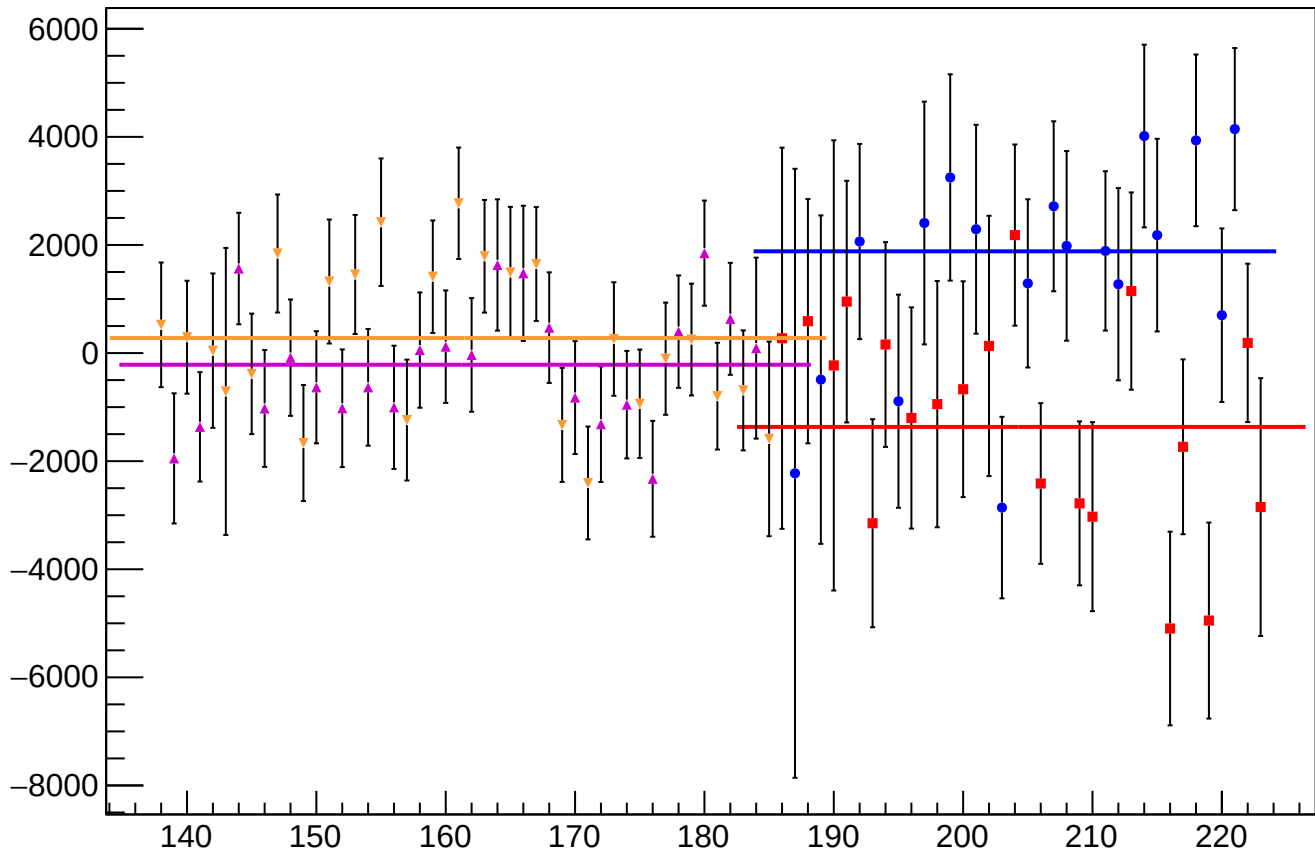
Right: 1787.148+/-0.246 χ^2/NDF : 729315.1/37

In: 1684.131+/-0.217 χ^2/NDF : 1067982.1/40

Out: 1708.626+/-0.217 χ^2/NDF : 1570513.3/44

All: 1696.384+/-0.153 χ^2/NDF : 2644865.1/85

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1882.569 $\pm$ 422.167 χ^2/NDF : 18.4/17

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

Right Out: -1366.206 $\pm$ 428.446 χ^2/NDF : 22.6/19

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

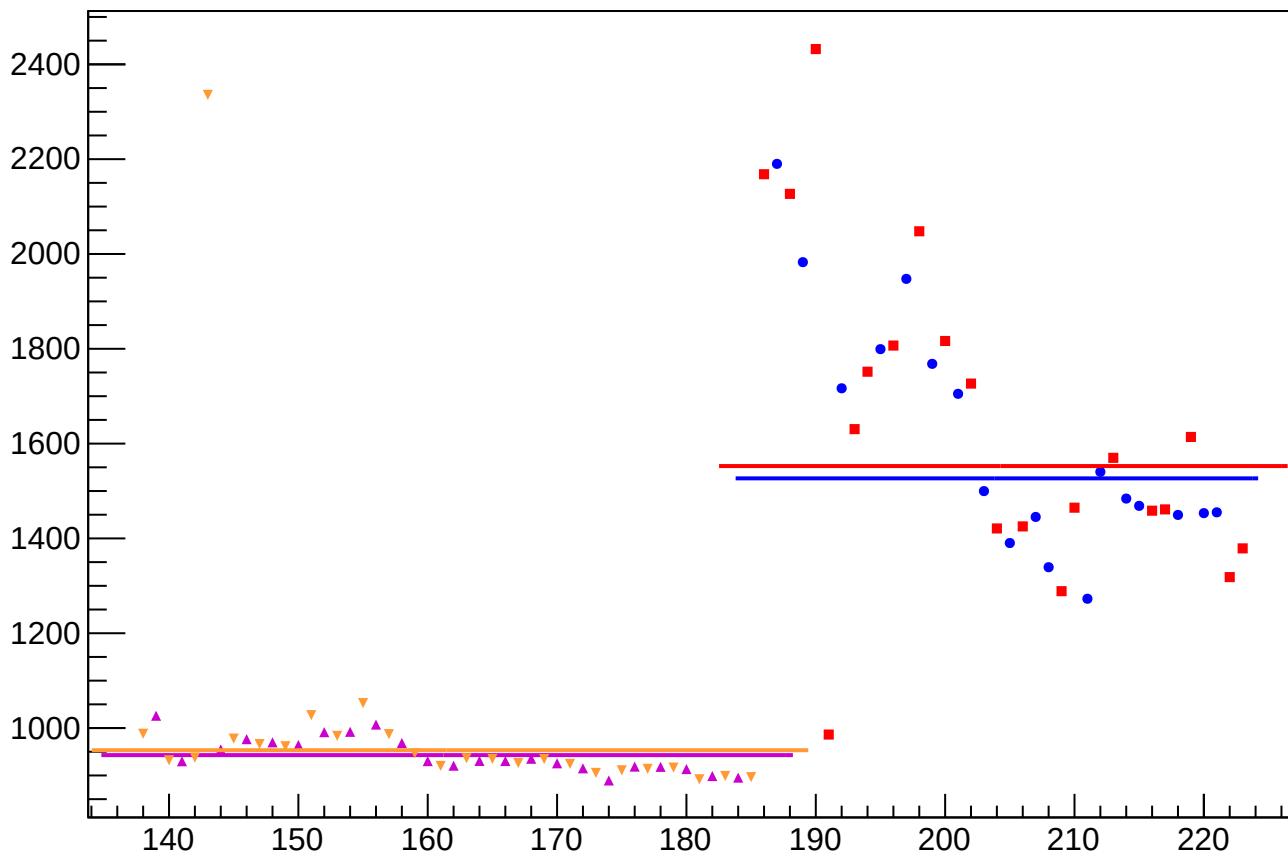
Right: 282.162 $\pm$ 300.713 χ^2/NDF : 70.2/37

In: 250.069 $\pm$ 198.972 χ^2/NDF : 62.0/40

Out: -73.843 $\pm$ 198.215 χ^2/NDF : 72.6/44

All: 87.496 $\pm$ 140.426 χ^2/NDF : 135.9/85

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1526.694 $\pm$ 0.299 χ^2 /NDF: 372806.7/17

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

Right Out: 1552.647 $\pm$ 0.303 χ^2 /NDF: 772450.6/19

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

Left: 948.120 $\pm$ 0.112 χ^2 /NDF: 656777.0/47

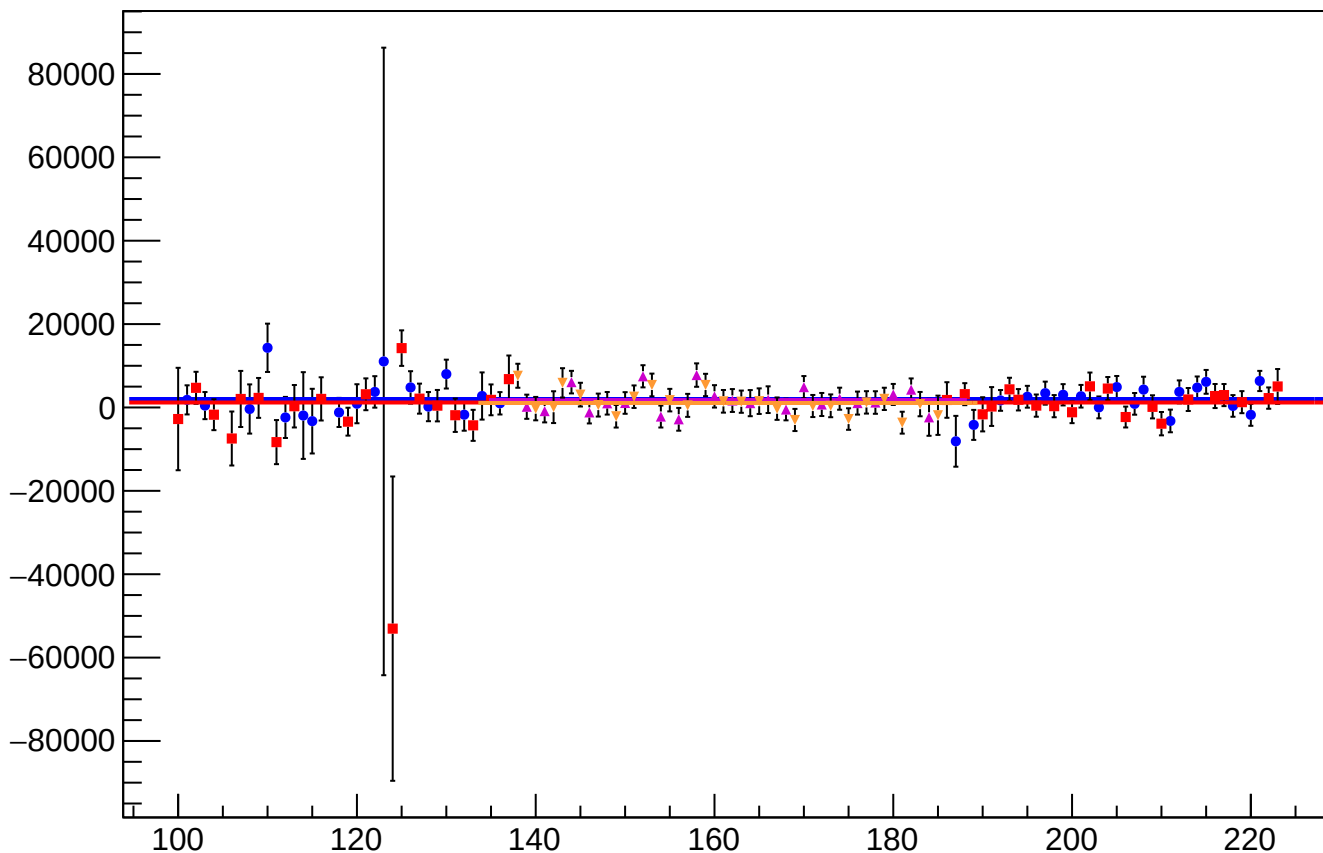
Right: 1539.479 $\pm$ 0.213 χ^2 /NDF: 1148980.8/37

In: 1072.601 $\pm$ 0.141 χ^2 /NDF: 3395920.2/40

Out: 1081.518 $\pm$ 0.140 χ^2 /NDF: 4455613.0/44

All: 1077.076 $\pm$ 0.099 χ^2 /NDF: 7853549.2/85

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 2030.286 $\pm$ 547.660 χ^2 /NDF: 34.1/34

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

Right Out: 1189.465 $\pm$ 546.469 χ^2 /NDF: 37.8/38

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

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

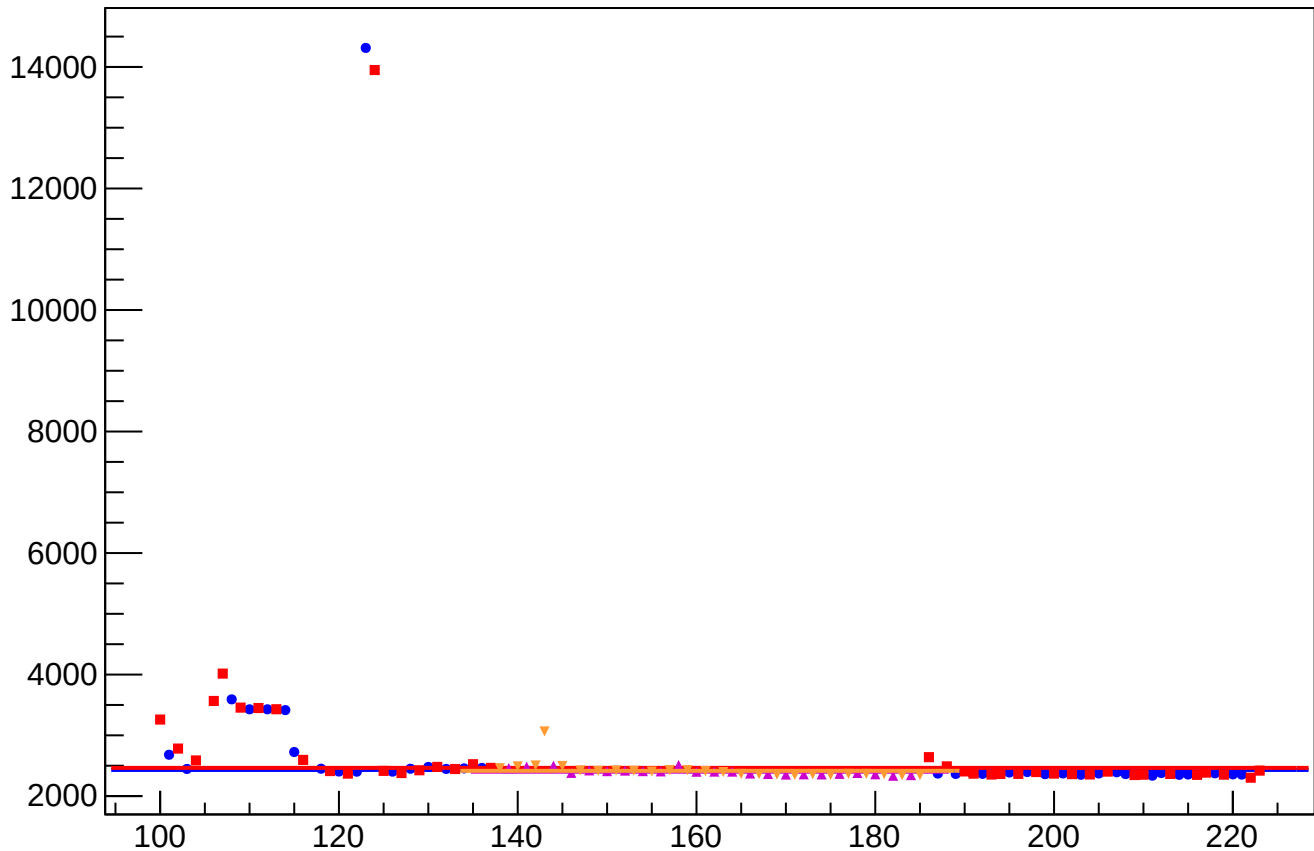
Right: 1608.960 $\pm$ 386.832 χ^2 /NDF: 73.0/73

In: 1910.052 $\pm$ 396.860 χ^2 /NDF:58.2/57

Out: 1135.519 $\pm$ 392.465 χ^2 /NDF:61.4/63

All: 1518.472 $\pm$ 279.056 χ^2 /NDF: 121.5/121

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2430.517 $\pm$ 0.387 χ^2 /NDF: 321405.3/34

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

Right Out: 2464.668 $\pm$ 0.386 χ^2 /NDF: 668788.4/38

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

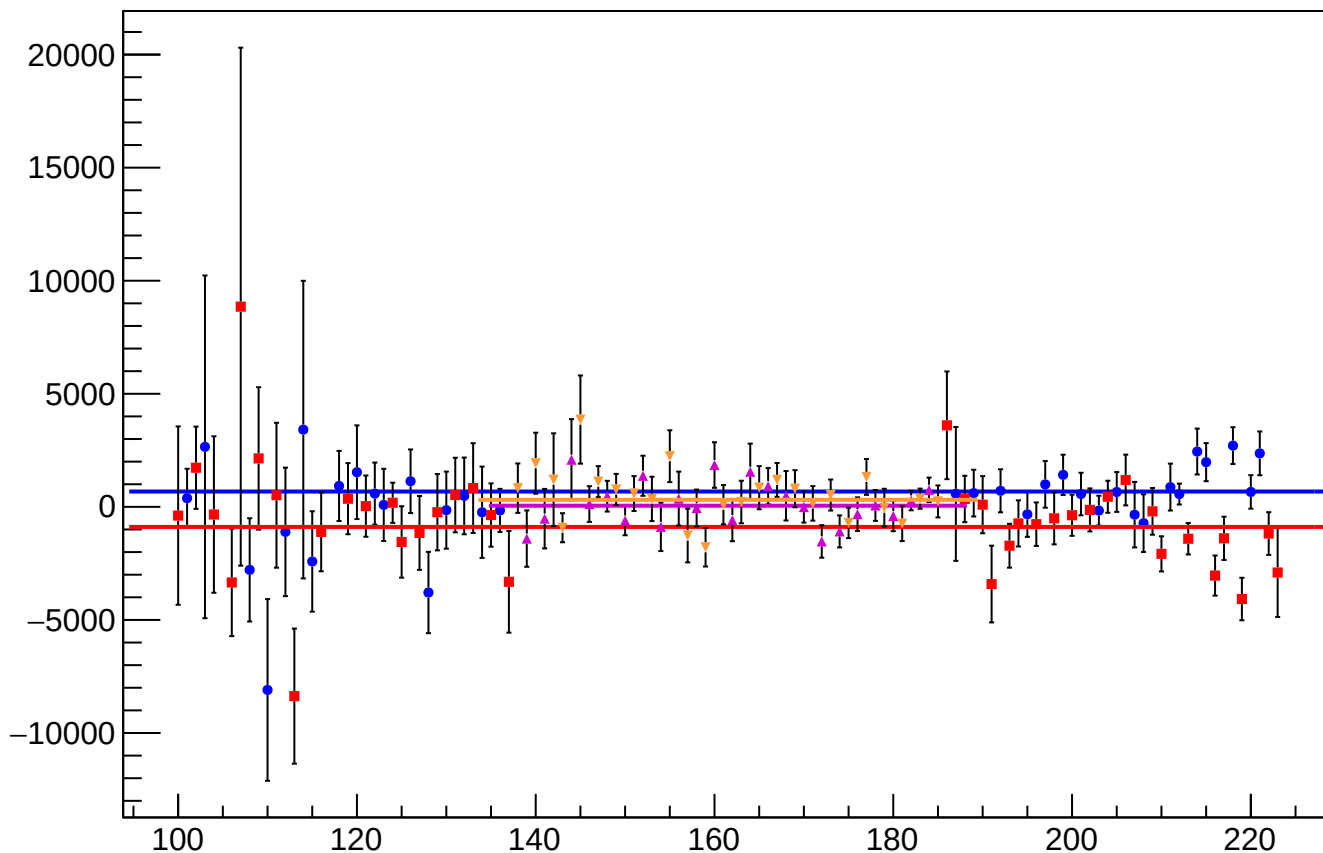
Right: 2447.630 $\pm$ 0.274 χ^2 /NDF: 994090.6/73

In: 2416.700 $\pm$ 0.281 χ^2 /NDF: 337833.7/57

Out: 2441.112 $\pm$ 0.278 χ^2 /NDF: 759099.3/63

All: 2429.042 $\pm$ 0.197 χ^2 /NDF: 1100758.8/12

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 678.149+/-185.113 χ^2/NDF : 37.5/34

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

Right Out: -886.754+/-194.100 χ^2/NDF : 55.8/38

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

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

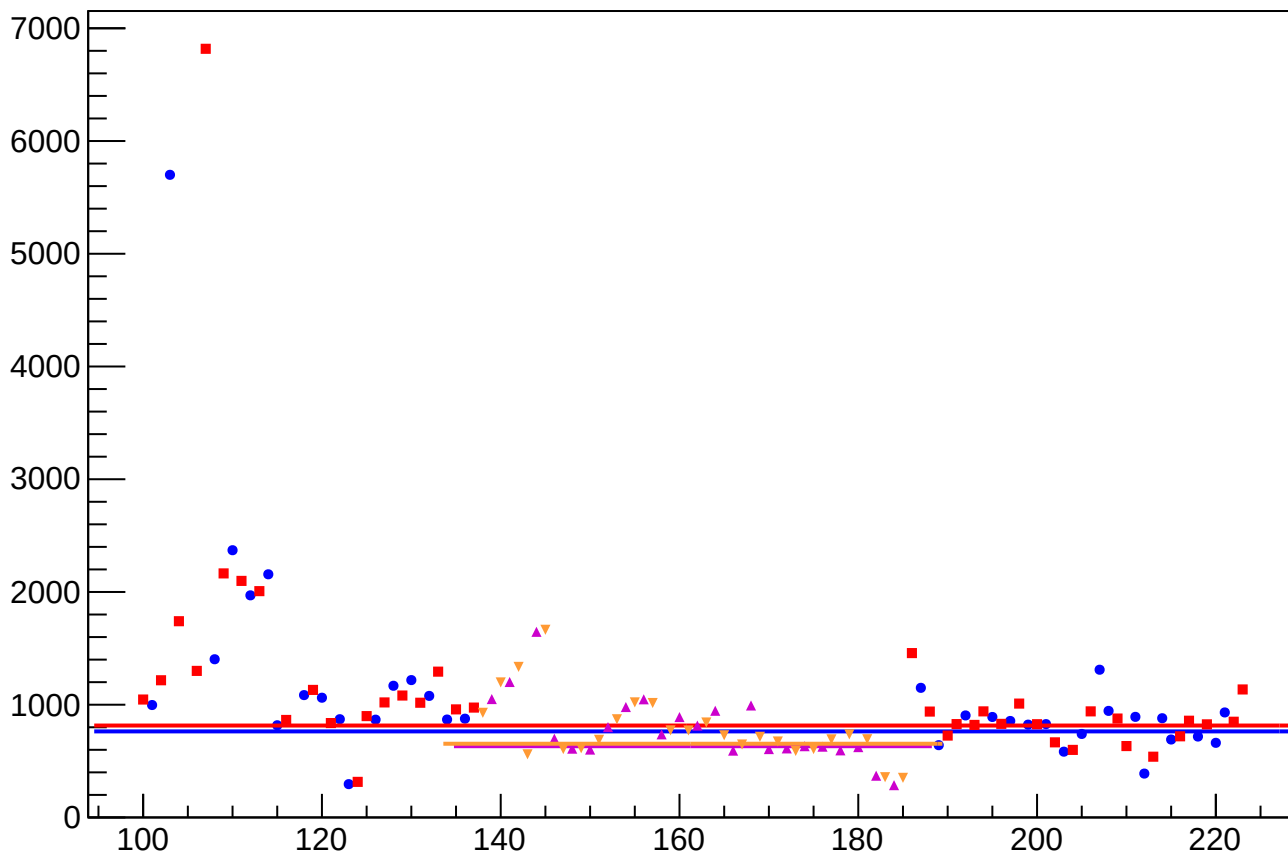
Right: -67.236+/-133.959 χ^2/NDF : 127.3/73

In: 322.769+/-121.800 χ^2/NDF : 67.8/57

Out: -176.009+/-123.759 χ^2/NDF : 108.1/63

All: 77.360+/-86.810 χ^2/NDF : 184.2/121

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 763.363 $\pm$ 0.131 χ^2 /NDF: 4644073.9/34

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

Right Out: 815.331 $\pm$ 0.137 χ^2 /NDF: 3914297.2/38

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

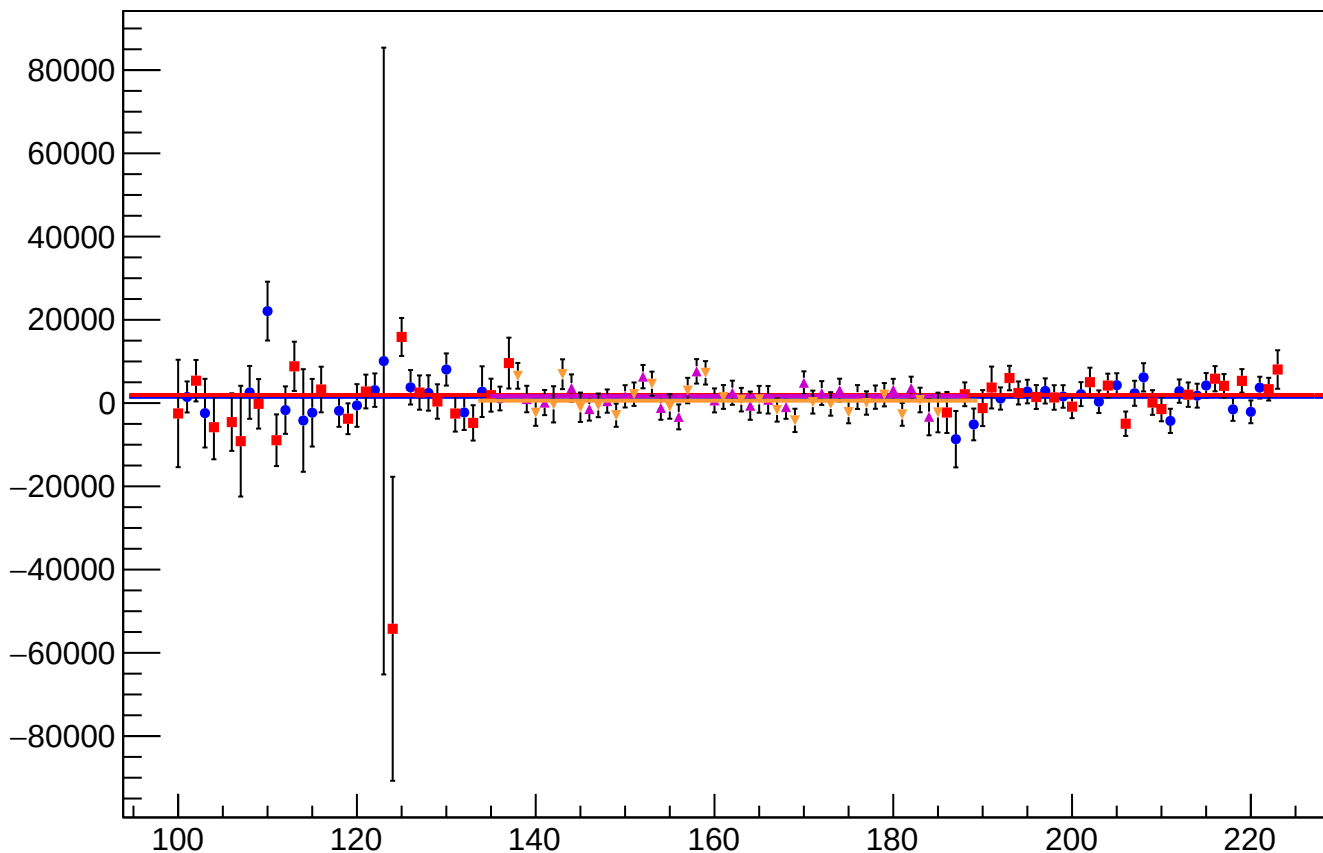
Right: 788.116 $\pm$ 0.095 χ^2 /NDF: 8633450.7/73

In: 688.901 $\pm$ 0.086 χ^2 /NDF: 9157601.3/57

Out: 719.470 $\pm$ 0.088 χ^2 /NDF: 7990984.2/63

All: 703.942 $\pm$ 0.061 χ^2 /NDF: 17210570.9/12

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1504.603 $\pm$ 597.138 χ^2 /NDF: 32.3/34

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

Right Out: 1948.702 $\pm$ 599.345 χ^2 /NDF: 46.0/38

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

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

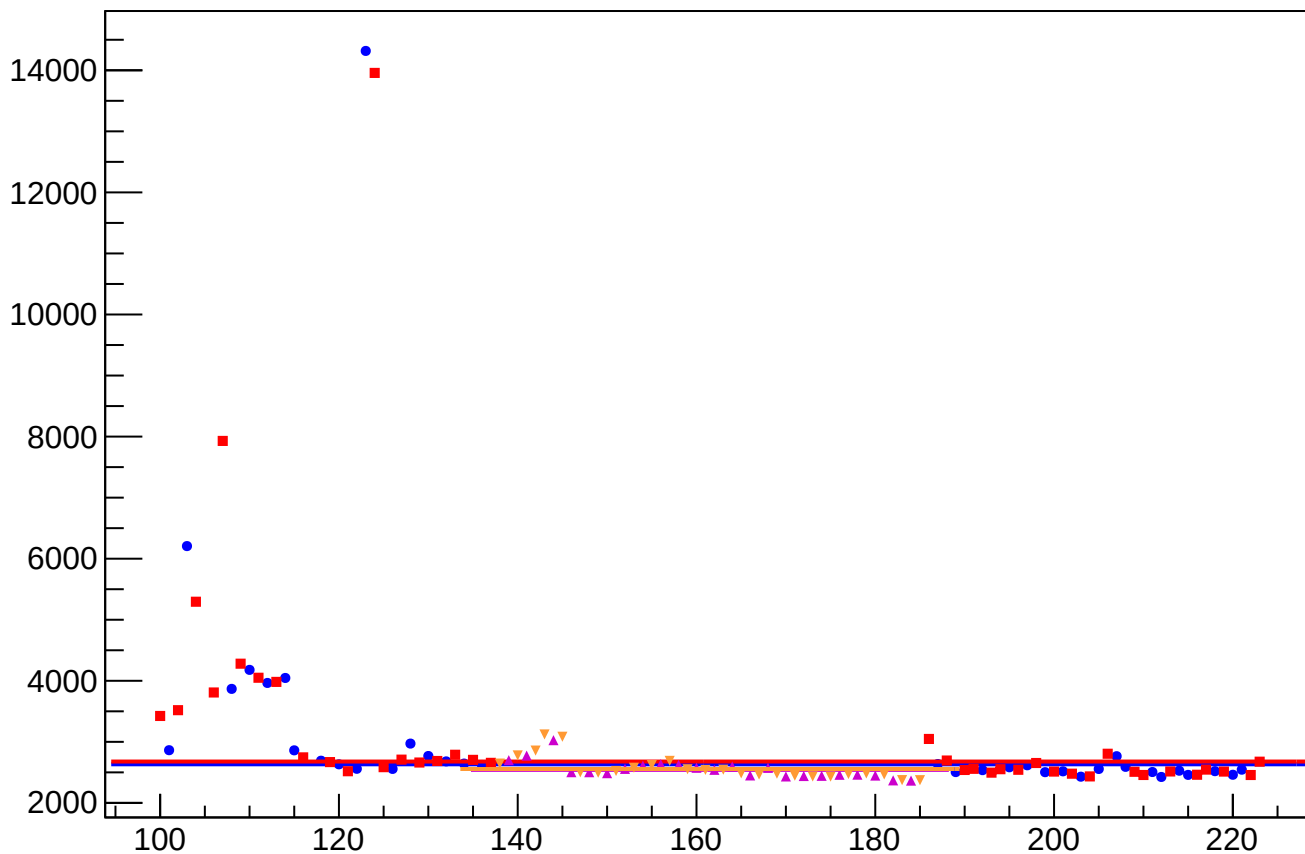
Right: 1725.833 $\pm$ 423.019 χ^2 /NDF: 78.6/73

In: 1590.208 $\pm$ 426.753 χ^2 /NDF: 50.5/57

Out: 1262.307 $\pm$ 423.031 χ^2 /NDF: 74.0/63

All: 1424.821 $\pm$ 300.435 χ^2 /NDF: 124.8/121

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2632.182 $\pm$ 0.422 χ^2 /NDF: 824892.4/34

Left Out: 2555.279 $\pm$ 0.422 χ^2 /NDF:154743.6/24

Right Out: 2677.498 $\pm$ 0.424 χ^2 /NDF: 1317799.9/38

Left In: 2540.988 $\pm$ 0.431 χ^2 /NDF:94756.7/22

Left: 2548.287 $\pm$ 0.302 χ^2 /NDF: 250060.8/47

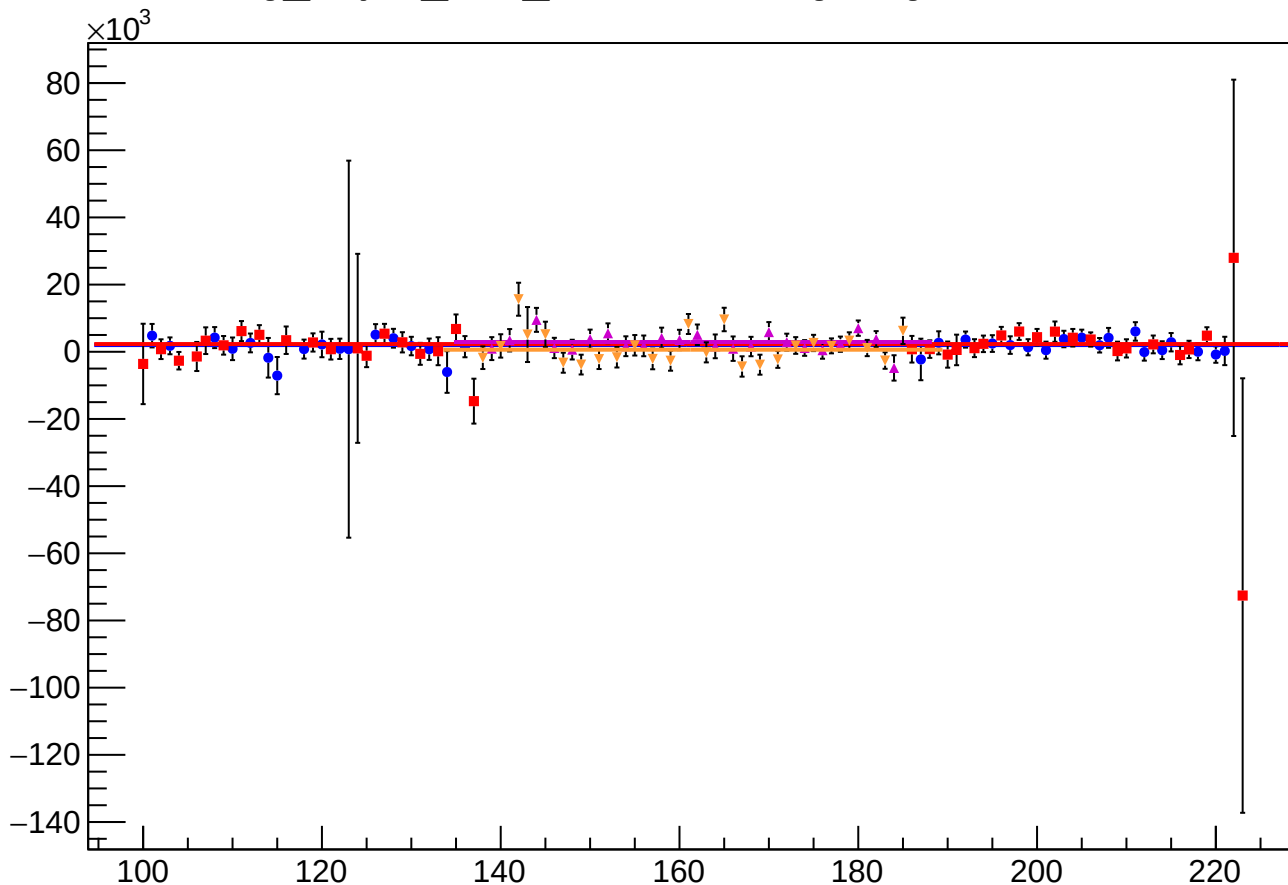
Right: 2654.756 $\pm$ 0.299 χ^2 /NDF: 2148430.2/73

In: 2587.565 $\pm$ 0.302 χ^2 /NDF:942470.8/57

Out: 2616.167 $\pm$ 0.299 χ^2 /NDF:1514278.3/63

All: 2601.991 $\pm$ 0.212 χ^2 /NDF: 2461280.6/12

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1995.931 ± 497.427 $\chi^2/\text{NDF}: 16.8/34$

Left Out: 614.867 ± 591.148 $\chi^2/\text{NDF}: 45.2/24$

Right Out: 2297.527 ± 498.155 $\chi^2/\text{NDF}: 31.6/38$

Left In: 2909.108 ± 599.673 $\chi^2/\text{NDF}: 17.4/22$

Left: 1745.562 ± 420.986 $\chi^2/\text{NDF}: 70.0/47$

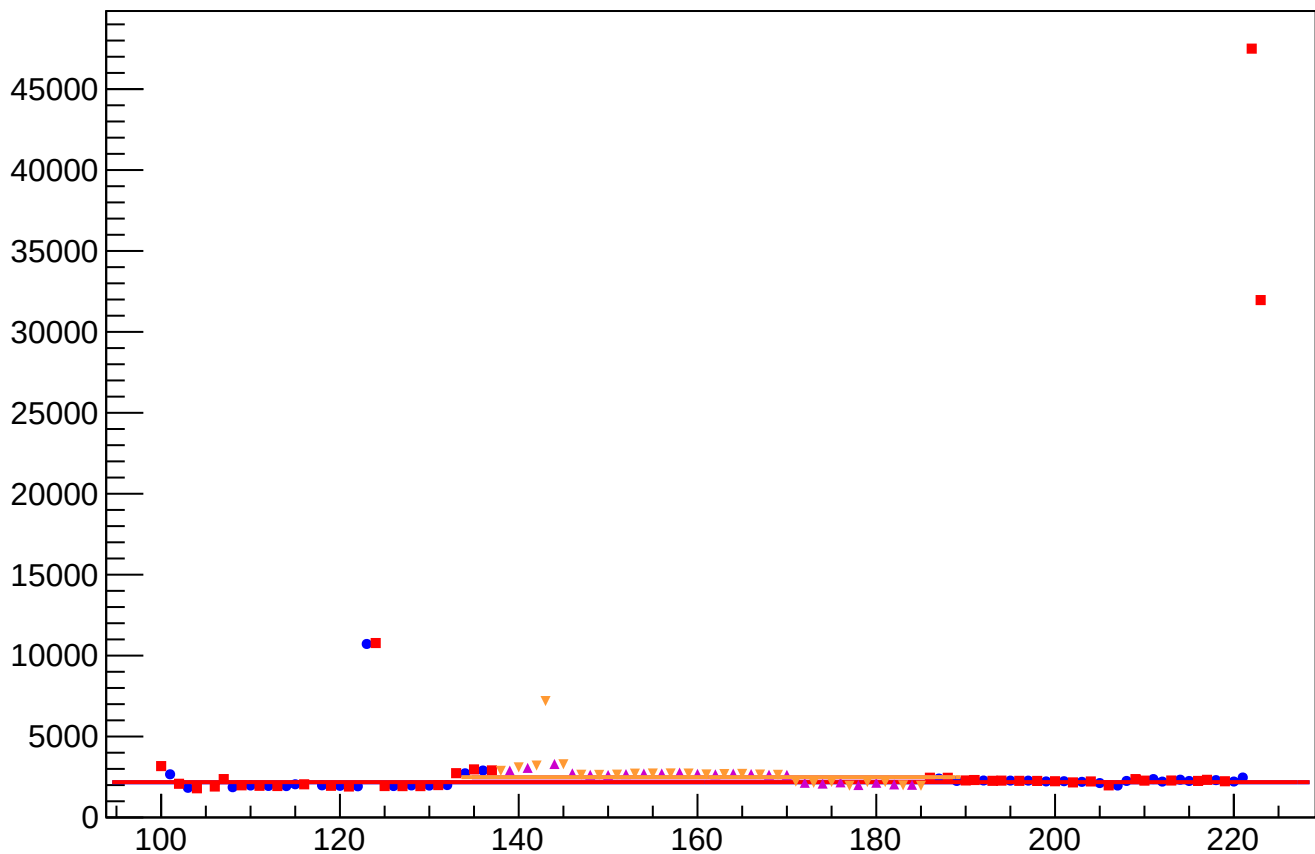
Right: 2146.509 ± 351.991 $\chi^2/\text{NDF}: 48.6/73$

In: 2368.147 ± 382.855 $\chi^2/\text{NDF}: 35.6/57$

Out: 1598.805 ± 380.934 $\chi^2/\text{NDF}: 81.6/63$

All: 1981.541 ± 270.038 $\chi^2/\text{NDF}: 119.2/121$

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2170.092+/-0.352 χ^2/NDF : 428567.7/34

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

Right Out: 2182.498+/-0.352 χ^2/NDF : 2501724.7/38

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

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

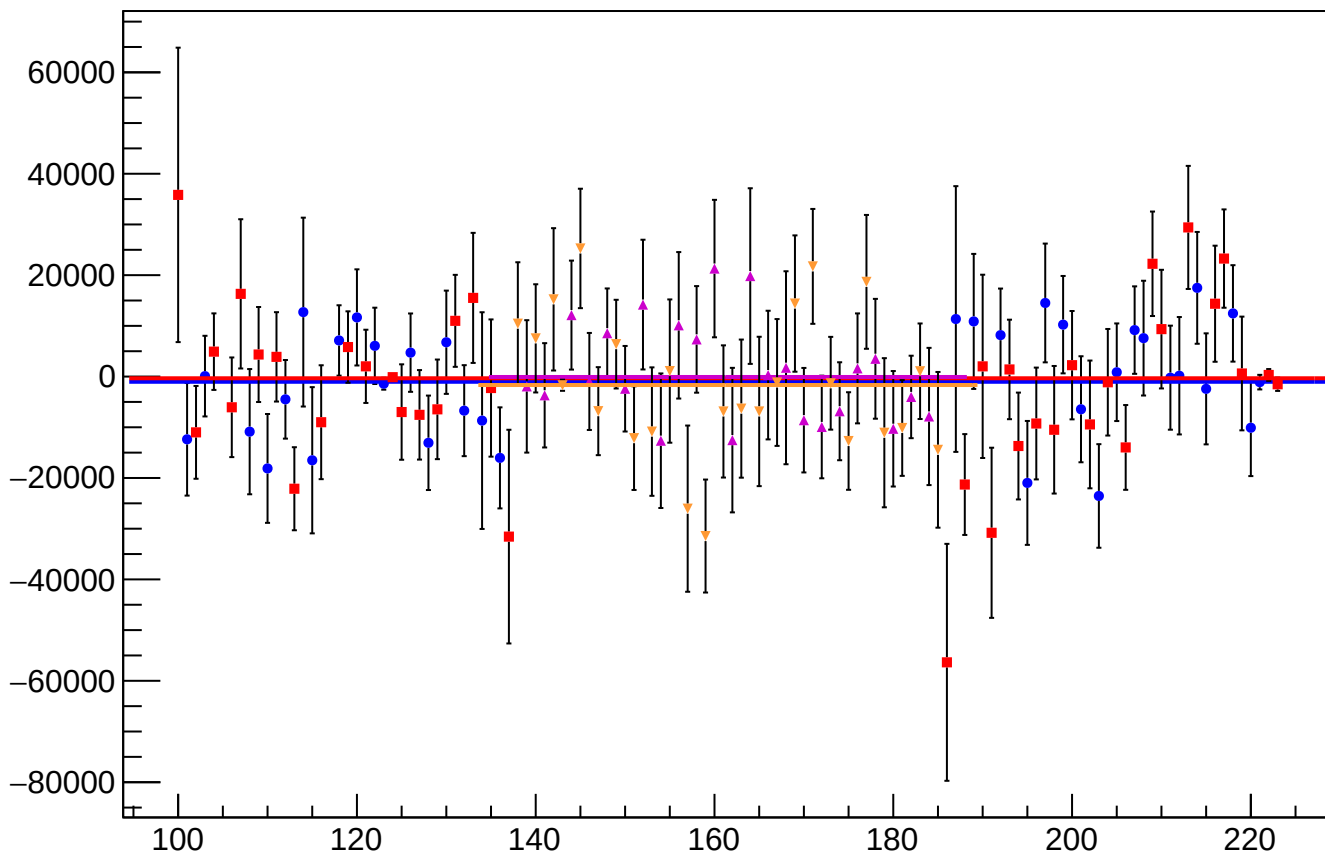
Right: 2176.286+/-0.249 χ^2/NDF : 2930913.5/73

In: 2296.146+/-0.271 χ^2/NDF :1412066.4/57

Out: 2310.011+/-0.269 χ^2/NDF :4181509.5/63

All: 2303.113+/-0.191 χ^2/NDF : 5594893.9/12

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1025.665 ± 807.854 χ^2/NDF : 36.6/34

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

Right Out: -335.423 ± 532.351 χ^2/NDF : 60.9/38

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

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

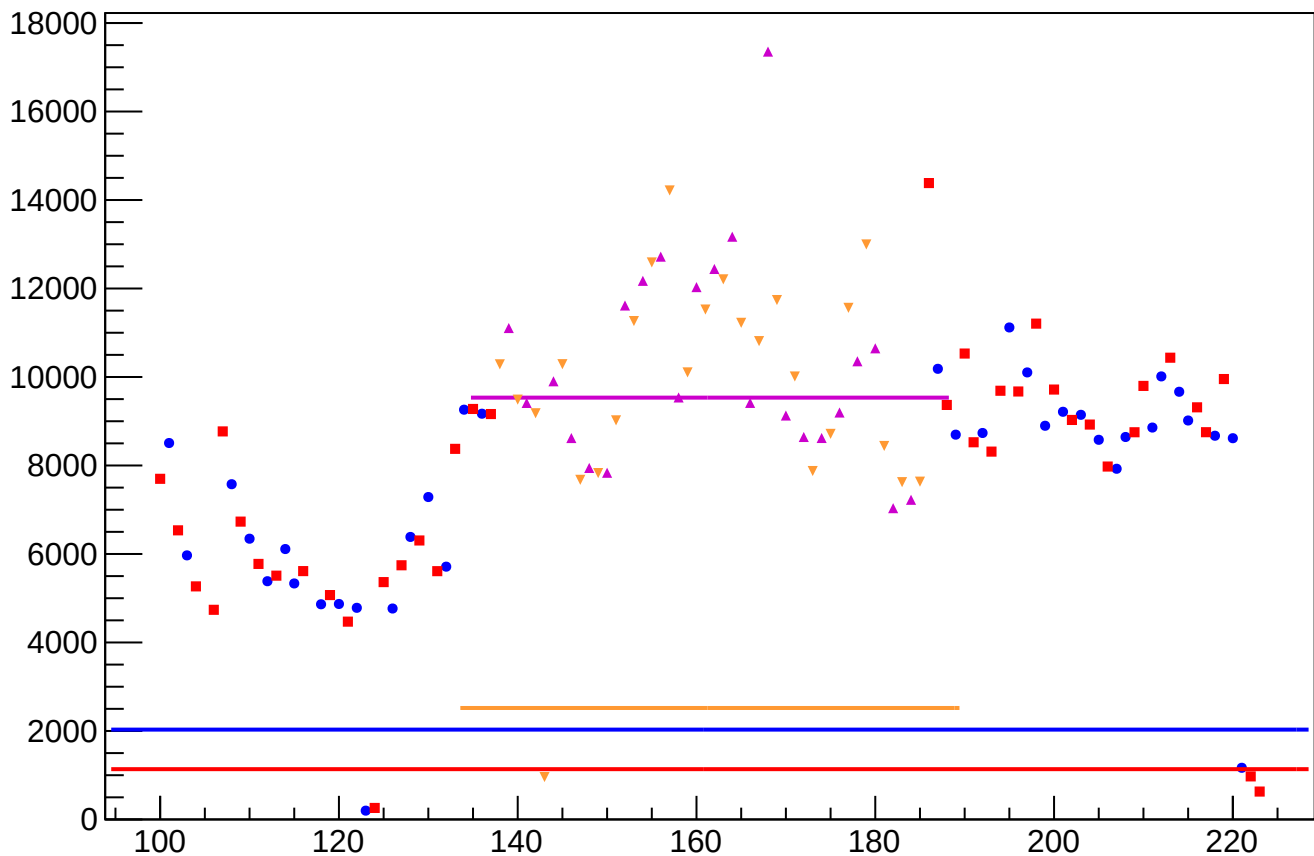
Right: -544.405 ± 444.516 χ^2/NDF : 98.1/73

In: -924.331 ± 763.331 χ^2/NDF : 50.6/57

Out: -632.310 ± 469.187 χ^2/NDF : 94.7/63

All: -712.384 ± 399.717 χ^2/NDF : 145.4/121

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2030.508+/-0.571

χ^2/NDF : 26478185.2/34

Left: 3596.432+/-0.646

χ^2/NDF : 40280305.8/47

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

Right: 1407.300+/-0.314

χ^2/NDF : 59630873.8/73

Right Out: 1136.677+/-0.376

χ^2/NDF : 31445614.8/38

In: 2834.741+/-0.540

χ^2/NDF : 46286837.2/57

Out: 1445.326+/-0.332

χ^2/NDF : 58099483.4/63

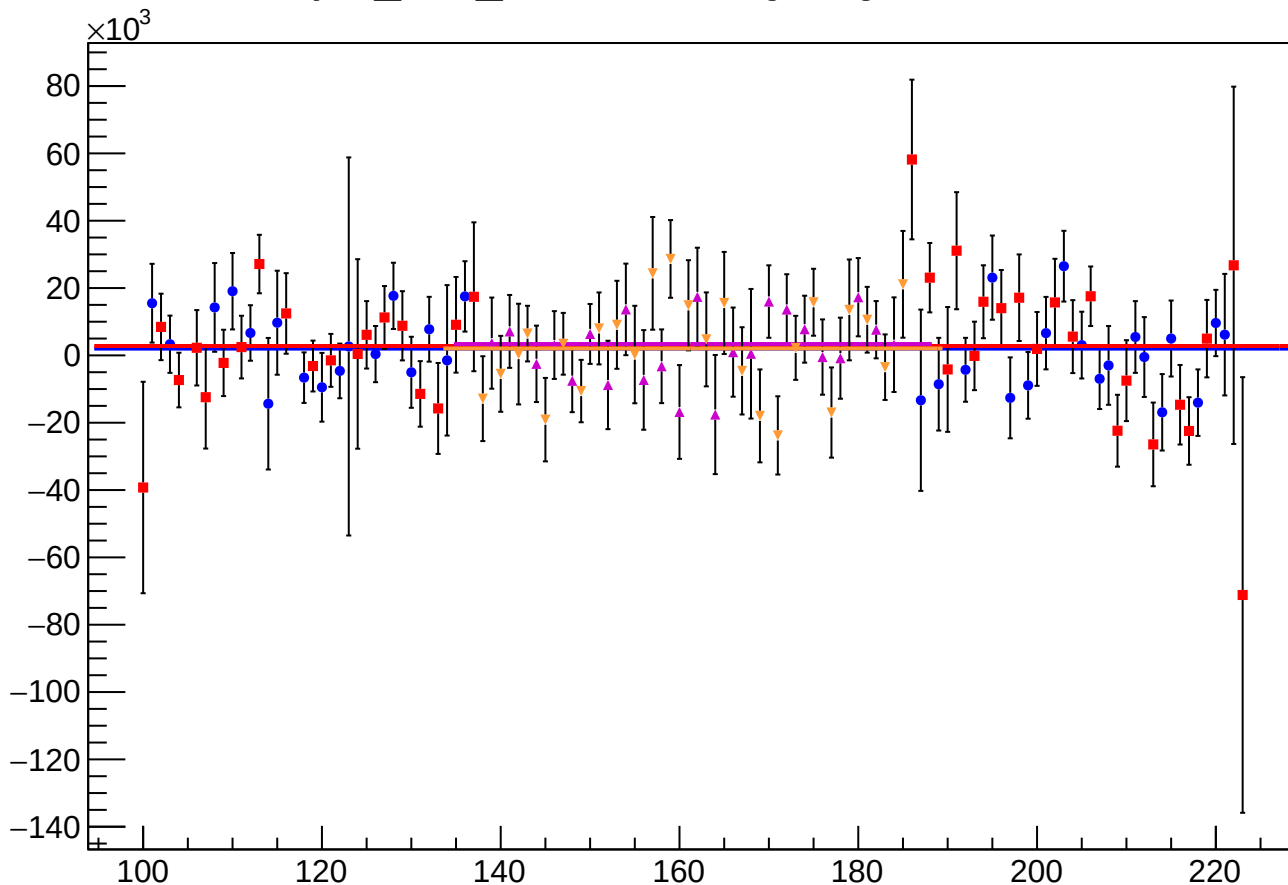
Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 1826.313+/-0.283

χ^2/NDF : 109195608.1

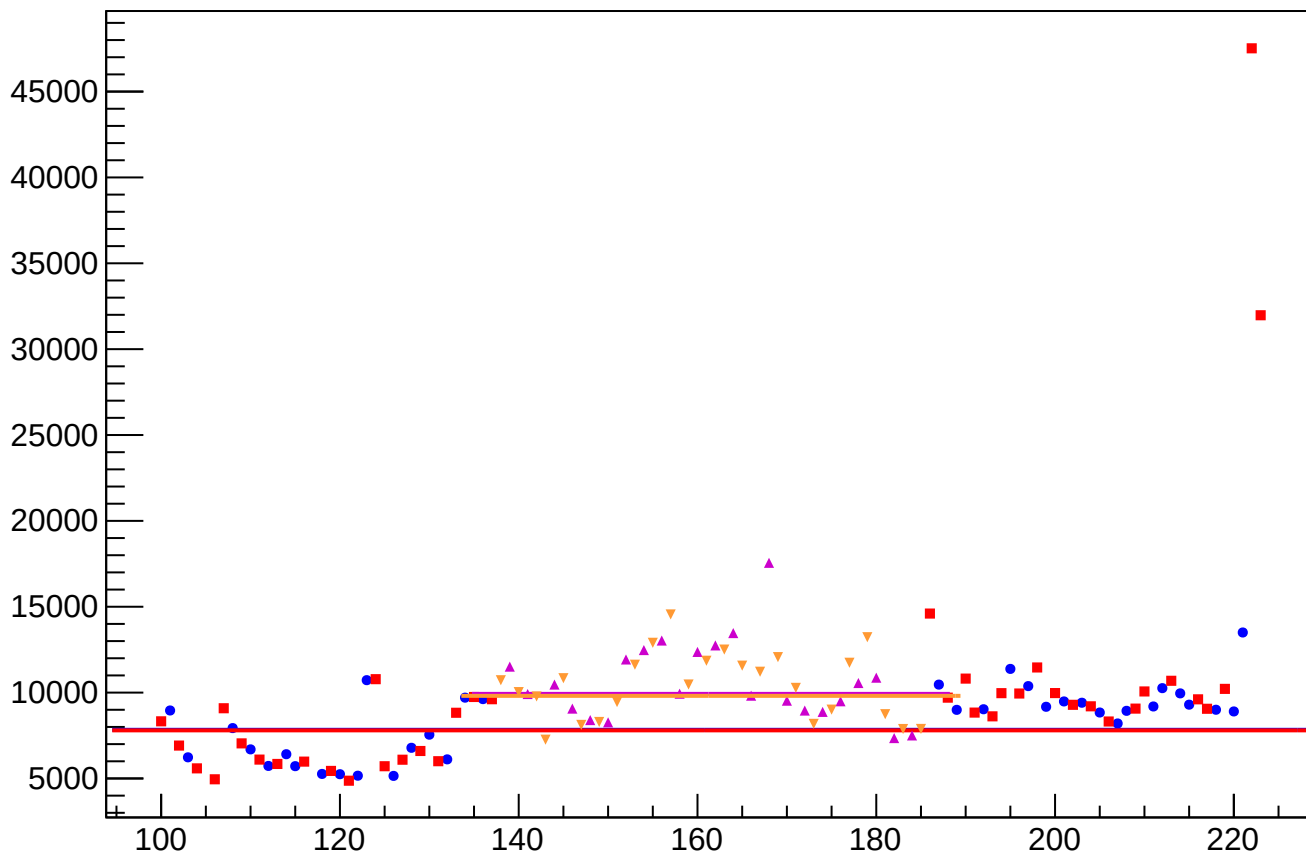
asym_atl2_mean vs Slug, Sign Corrected



Right In: 2015.290+/-1829.927 χ^2/NDF : 34.6/34
 Left Out: 2055.950+/-2333.494 χ^2/NDF :30.7/24
 Right Out: 2788.319+/-1819.066 χ^2/NDF : 61.9/38
 Left In: 3371.931+/-2423.242 χ^2/NDF :13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47
 Right: 2404.105+/-1290.097 χ^2/NDF : 96.6/73
 In: 2507.972+/-1460.319 χ^2/NDF :47.9/57
 Out: 2511.490+/-1434.654 χ^2/NDF :92.7/63
 All: 2509.763+/-1023.407 χ^2/NDF : 140.6/121

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7833.424+/-1.294

χ^2/NDF : 2196009.7/34

Left Out: 9811.053+/-1.650

χ^2/NDF : 1213831.0/24

Right Out: 7801.255+/-1.286

χ^2/NDF : 3910023.0/38

Left In: 9925.337+/-1.713

χ^2/NDF : 1211554.7/22

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

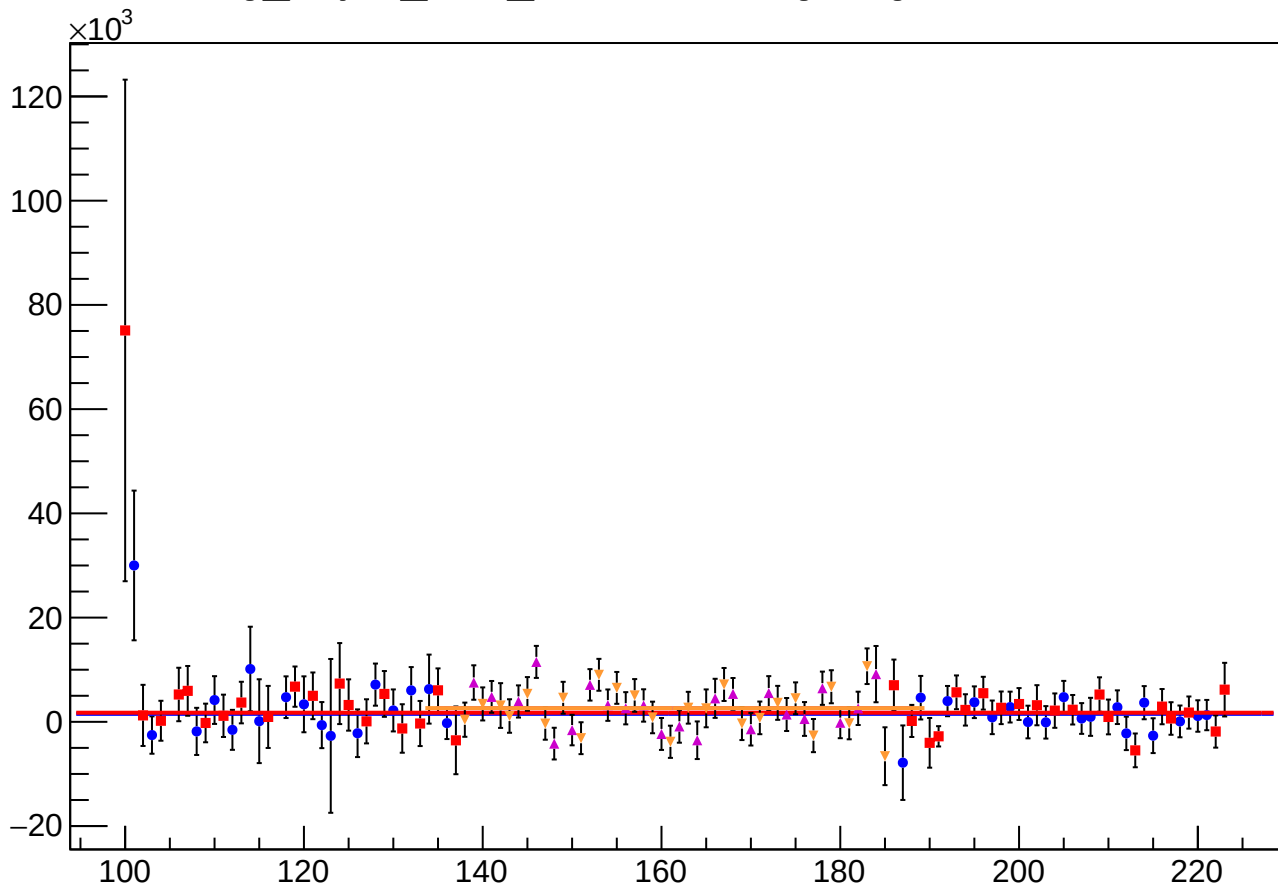
Right: 7817.243+/-0.912 χ^2/NDF : 6106343.6/73

In: 8593.084+/-1.033 χ^2/NDF : 4356783.9/57

Out: 8560.864+/-1.014 χ^2/NDF : 6046732.3/63

All: 8576.688+/-0.724 χ^2/NDF : 10404011.7/131

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1530.915 $\pm$ 631.179 χ^2/NDF : 22.7/34

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

Right Out: 1747.853 $\pm$ 593.961 χ^2/NDF : 30.6/38

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

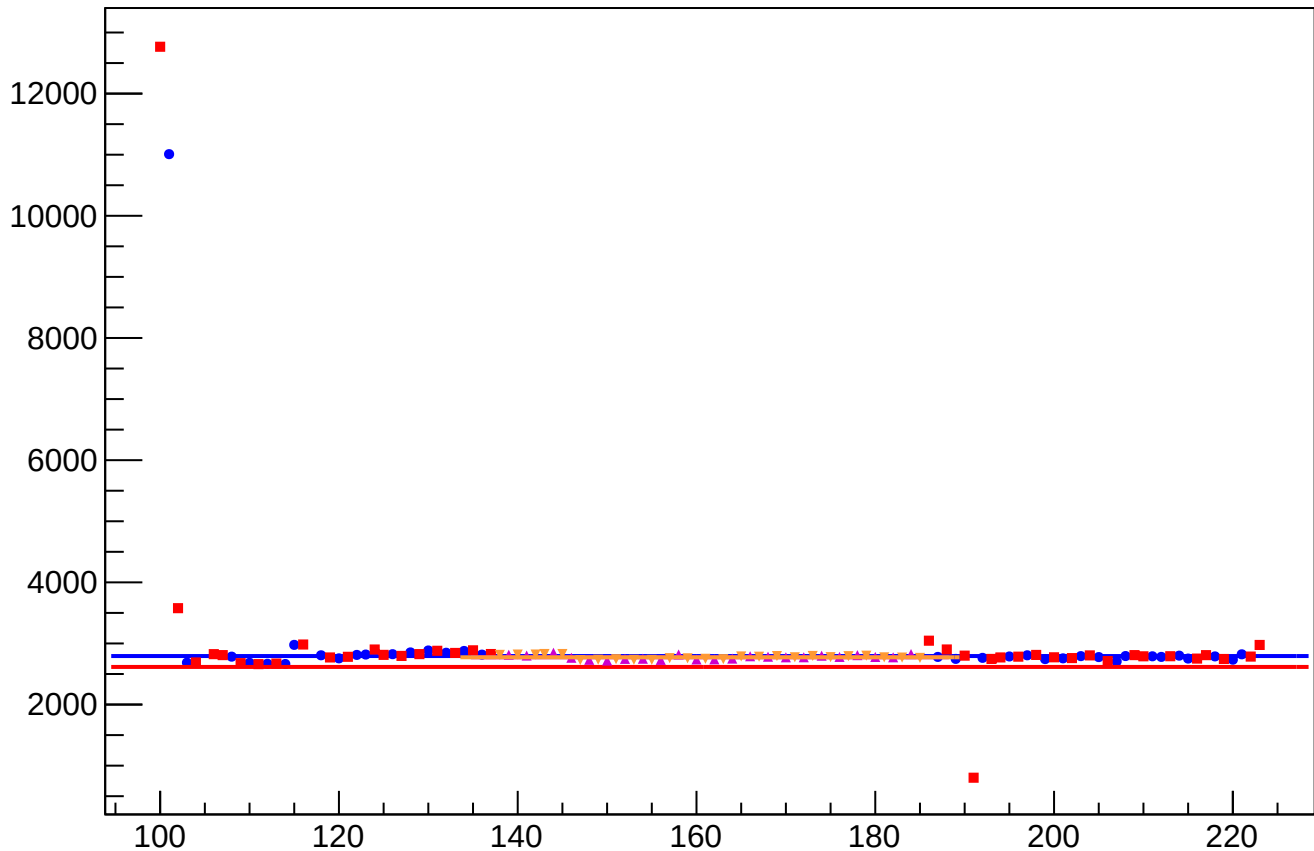
Right: 1645.969 $\pm$ 432.553 χ^2/NDF : 53.3/73

In: 2056.236 $\pm$ 457.660 χ^2/NDF : 59.4/57

Out: 2154.559 $\pm$ 437.273 χ^2/NDF : 66.6/63

All: 2107.637 $\pm$ 316.160 χ^2/NDF : 126.1/121

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2793.979+/-0.446 χ^2/NDF : 668023.3/34

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

Right Out: 2615.708+/-0.420 χ^2/NDF : 2057606.0/38

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

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

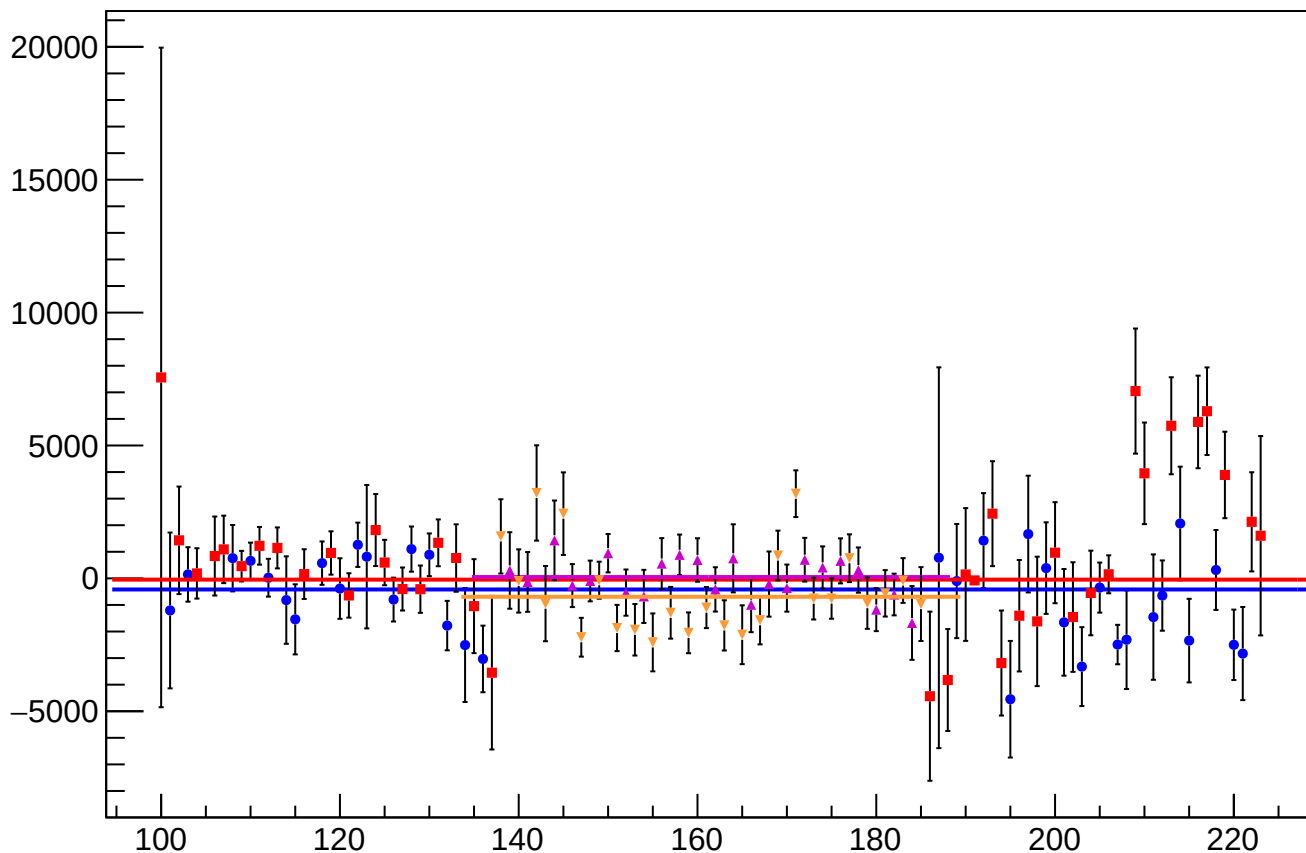
Right: 2699.433+/-0.306 χ^2/NDF : 2810245.2/73

In: 2784.521+/-0.324 χ^2/NDF : 673955.6/57

Out: 2688.076+/-0.309 χ^2/NDF : 2127046.5/63

All: 2734.103+/-0.224 χ^2/NDF : 2847433.5/12

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -417.929 ± 200.153 $\chi^2/\text{NDF}: 50.6/34$

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

Right Out: -47.417 ± 37.764 $\chi^2/\text{NDF}: 87.6/38$

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

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

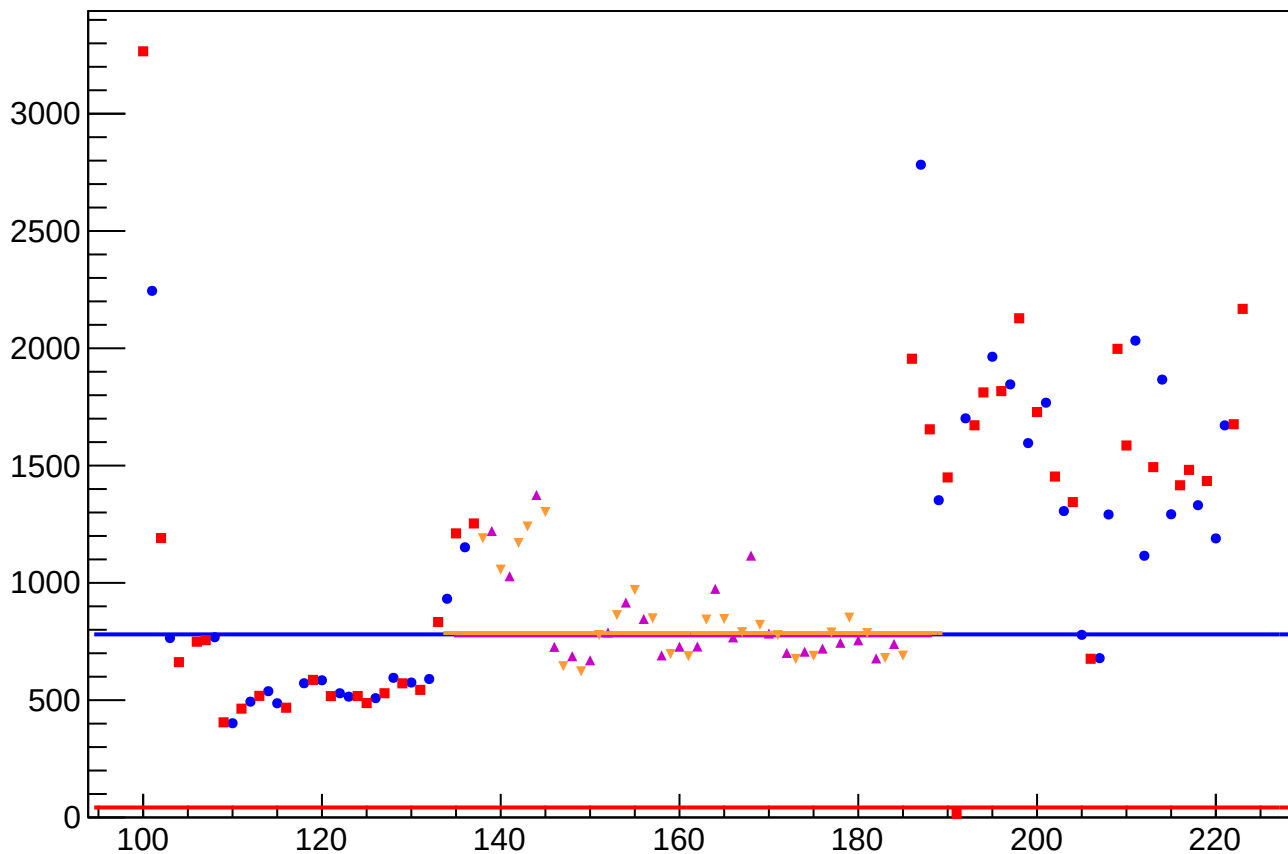
Right: -60.153 ± 37.109 $\chi^2/\text{NDF}: 141.6/73$

In: -171.198 ± 137.490 $\chi^2/\text{NDF}: 67.1/57$

Out: -72.629 ± 37.019 $\chi^2/\text{NDF}: 155.0/63$

All: -79.292 ± 35.746 $\chi^2/\text{NDF}: 222.6/121$

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 780.435 $\pm$ 0.142 χ^2 /NDF: 8329588.2/34

Left Out: 786.173 $\pm$ 0.132 χ^2 /NDF:1249536.1/24

Right Out: 42.512 $\pm$ 0.027 χ^2 /NDF: 37260434.4/38

Left In: 775.930 $\pm$ 0.134 χ^2 /NDF:1056766.5/22

Left: 781.103 $\pm$ 0.094 χ^2 /NDF: 2309263.4/47

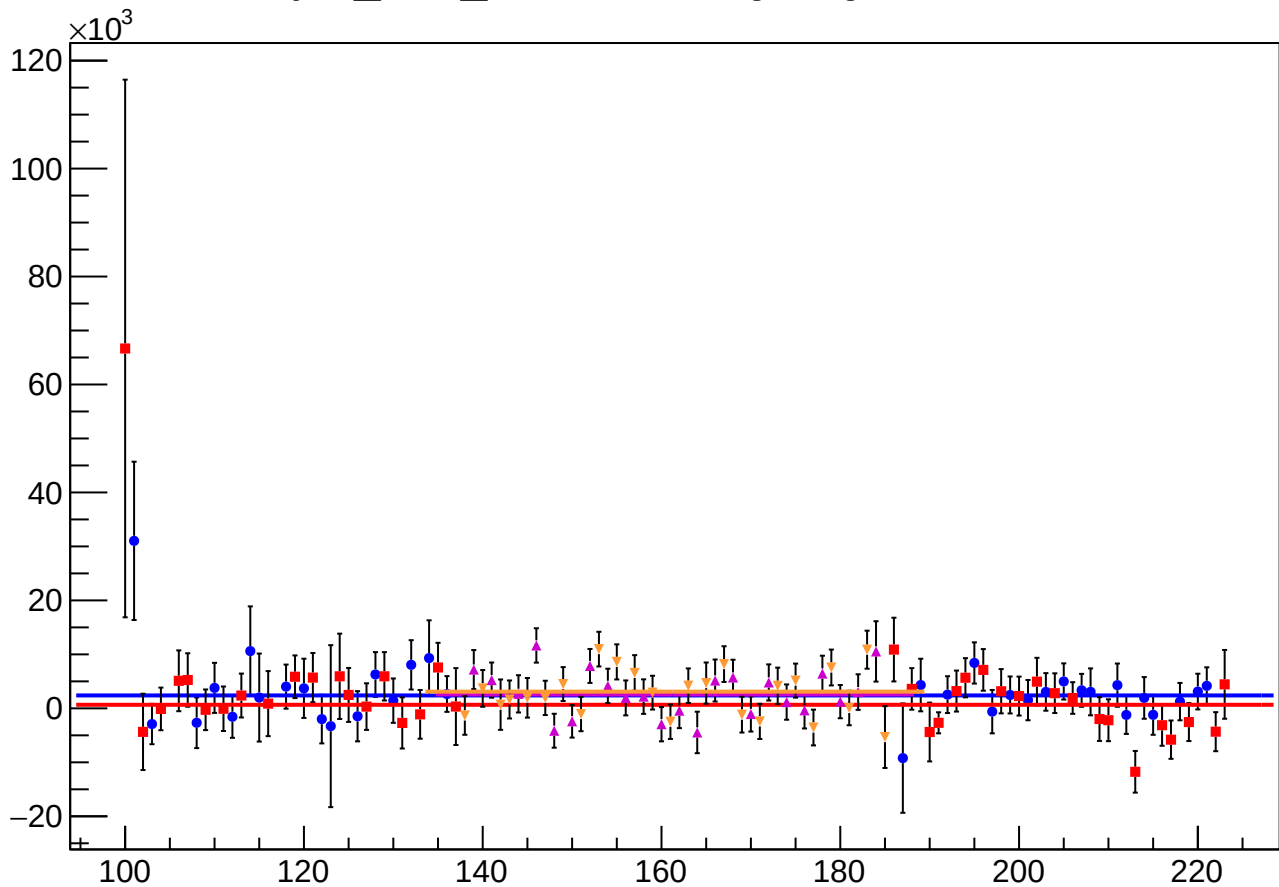
Right: 67.877 $\pm$ 0.026 χ^2 /NDF: 71840417.1/73

In: 778.056 $\pm$ 0.097 χ^2 /NDF:9386889.7/57

Out: 71.563 $\pm$ 0.026 χ^2 /NDF:68807805.7/63

All: 119.317 $\pm$ 0.025 χ^2 /NDF: 127433742.1/173

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2393.801 $\pm$ 701.099 χ^2 /NDF: 22.5/34

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

Right Out: 659.740 $\pm$ 657.237 χ^2 /NDF: 45.2/38

Left In: 2573.184 $\pm$ 695.795 χ^2 /NDF:35.7/22

Left: 2840.565 $\pm$ 485.775 χ^2 /NDF: 74.6/47

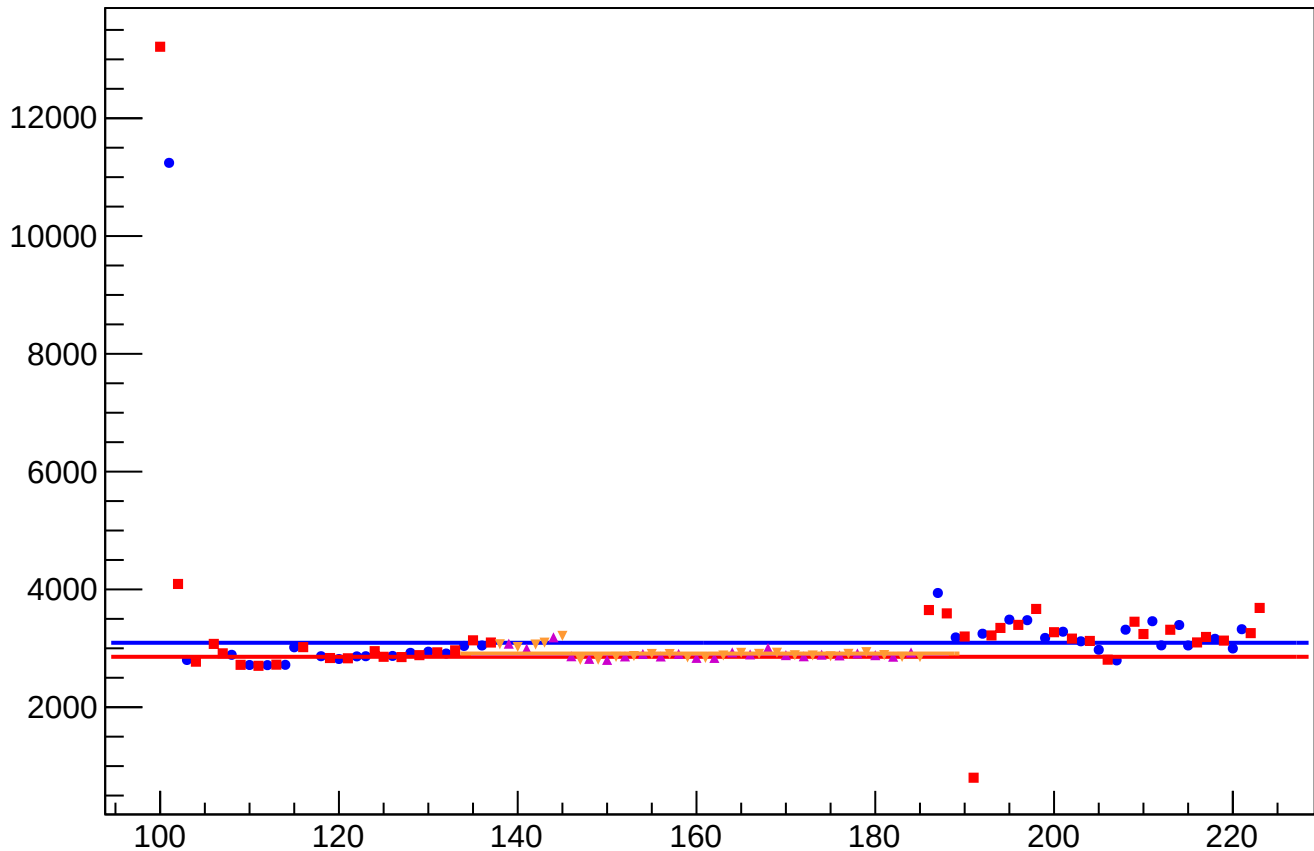
Right: 1470.834 $\pm$ 479.494 χ^2 /NDF: 71.0/73

In: 2484.174 $\pm$ 493.866 χ^2 /NDF:58.2/57

Out: 1838.512 $\pm$ 472.078 χ^2 /NDF:90.5/63

All: 2146.787 $\pm$ 341.252 χ^2 /NDF: 149.6/121

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3094.013+/-0.496 χ^2/NDF : 833819.1/34

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

Right Out: 2855.893+/-0.465 χ^2/NDF : 2919225.8/38

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

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

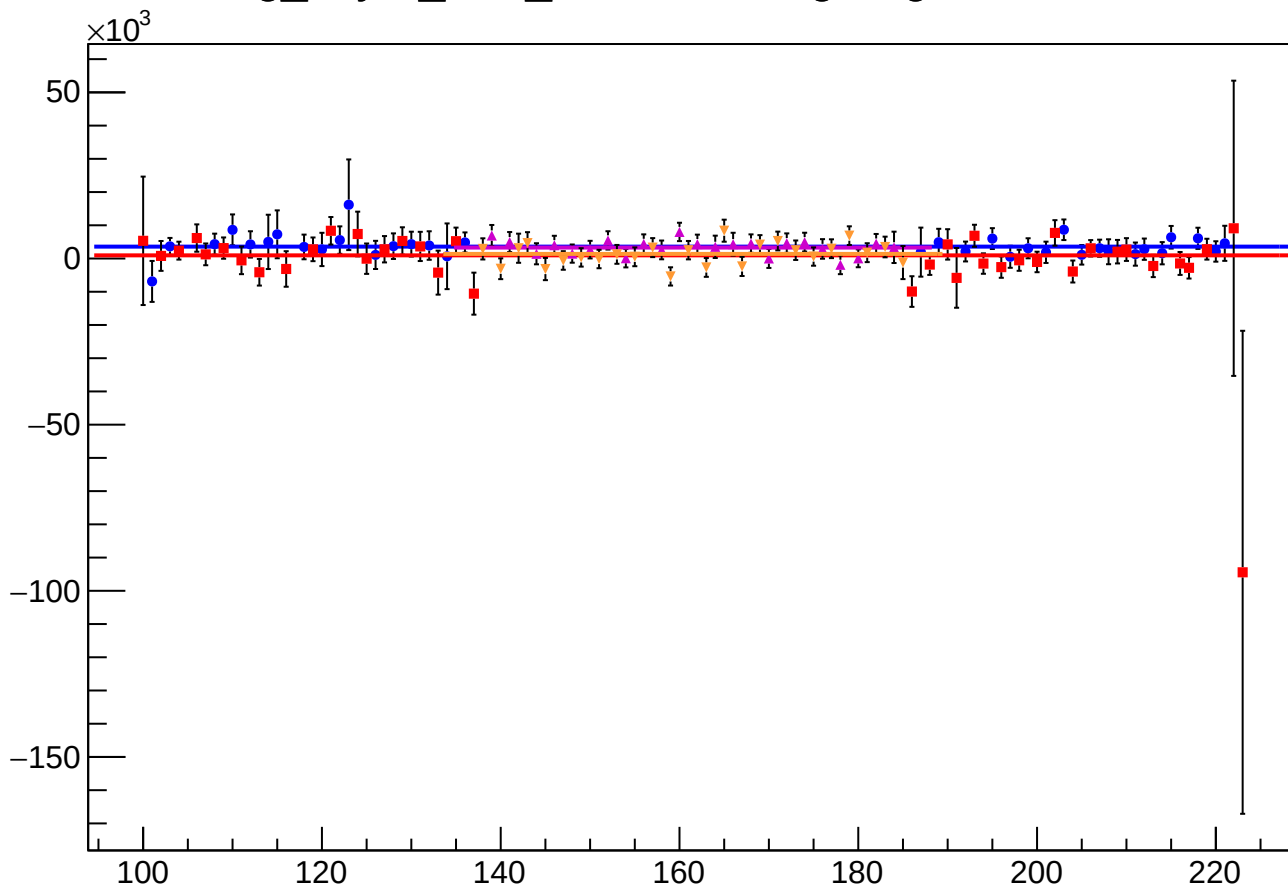
Right: 2967.272+/-0.339 χ^2/NDF : 3875841.2/73

In: 2997.988+/-0.349 χ^2/NDF : 937127.9/57

Out: 2882.678+/-0.334 χ^2/NDF : 2962732.4/63

All: 2937.734+/-0.241 χ^2/NDF : 3956833.1/12

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3580.618 $\pm$ 620.133 χ^2/NDF : 14.3/34

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

Right Out: 952.483 $\pm$ 613.961 χ^2/NDF : 40.2/38

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

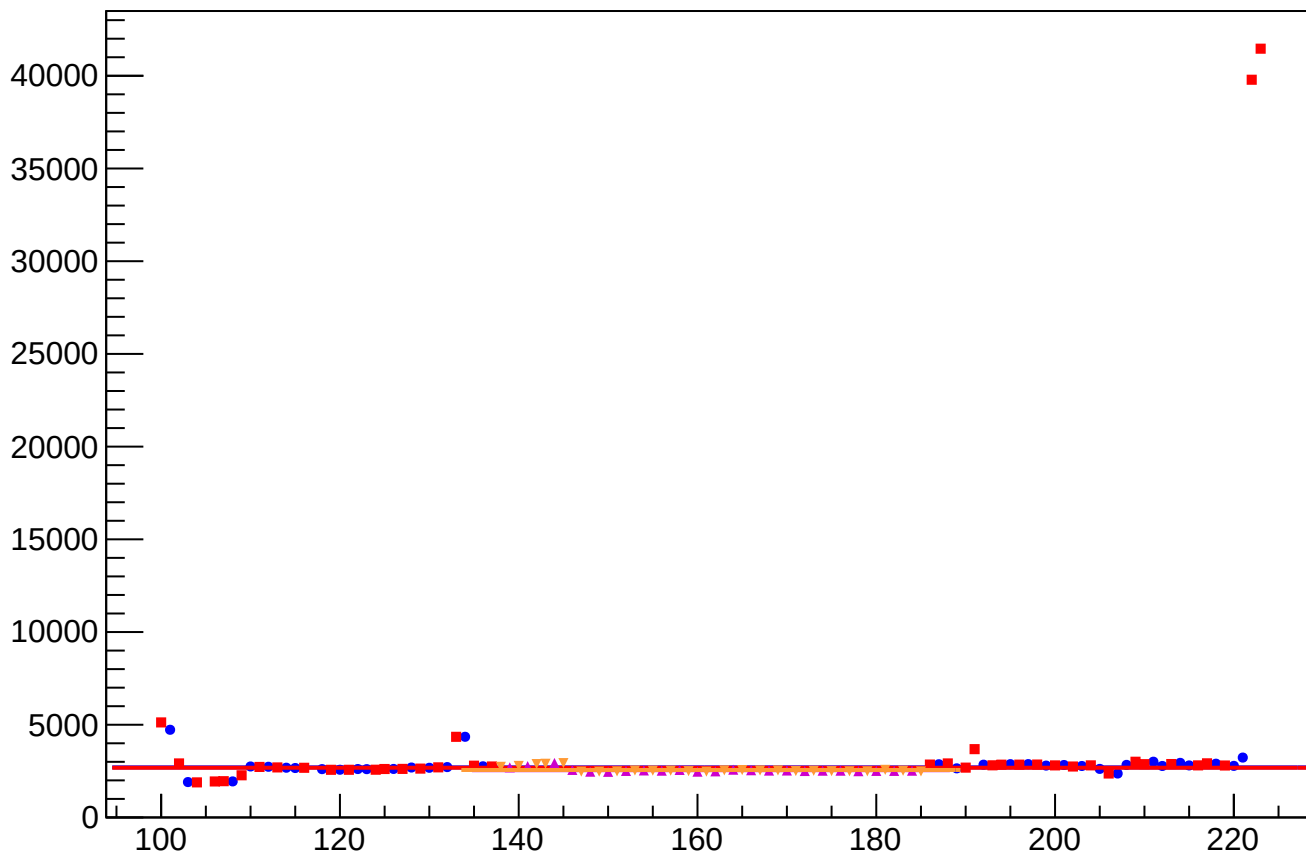
Right: 2253.406 $\pm$ 436.302 χ^2/NDF : 63.6/73

In: 3435.641 $\pm$ 434.870 χ^2/NDF : 29.3/57

Out: 1177.687 $\pm$ 427.835 χ^2/NDF : 69.7/63

All: 2288.251 $\pm$ 304.982 χ^2/NDF : 112.7/121

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2700.608 $\pm$ 0.439 χ^2 /NDF: 707143.5/34

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

Right Out: 2681.441 $\pm$ 0.434 χ^2 /NDF: 2678785.4/38

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

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

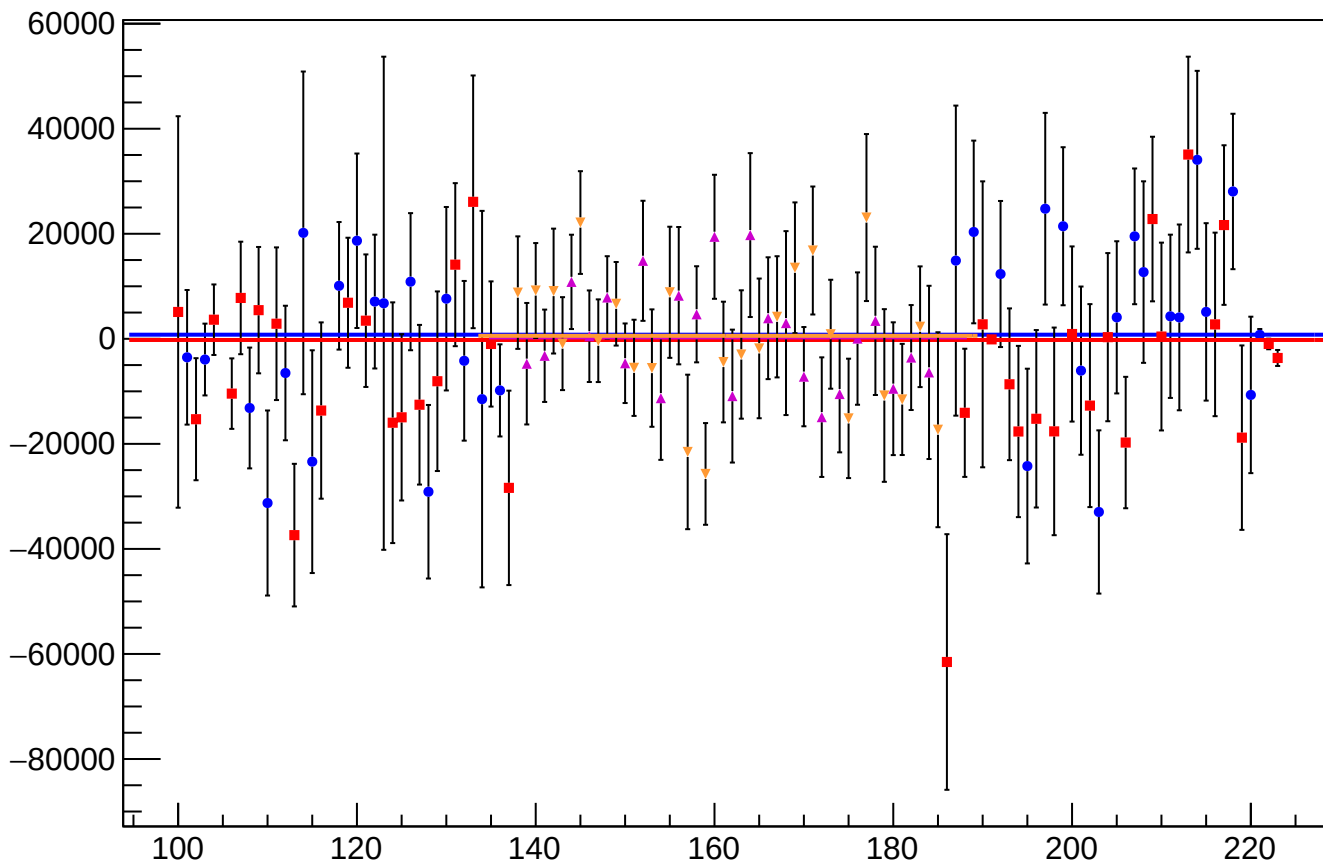
Right: 2690.929 $\pm$ 0.309 χ^2 /NDF: 3386893.7/73

In: 2623.488 $\pm$ 0.307 χ^2 /NDF: 823268.3/57

Out: 2619.244 $\pm$ 0.303 χ^2 /NDF: 2805457.6/63

All: 2621.332 $\pm$ 0.216 χ^2 /NDF: 3628822.7/12

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: 785.139+/-1011.585 χ^2/NDF : 38.3/34

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

Right Out: -221.129+/-189.834 χ^2/NDF : 48.8/38

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

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

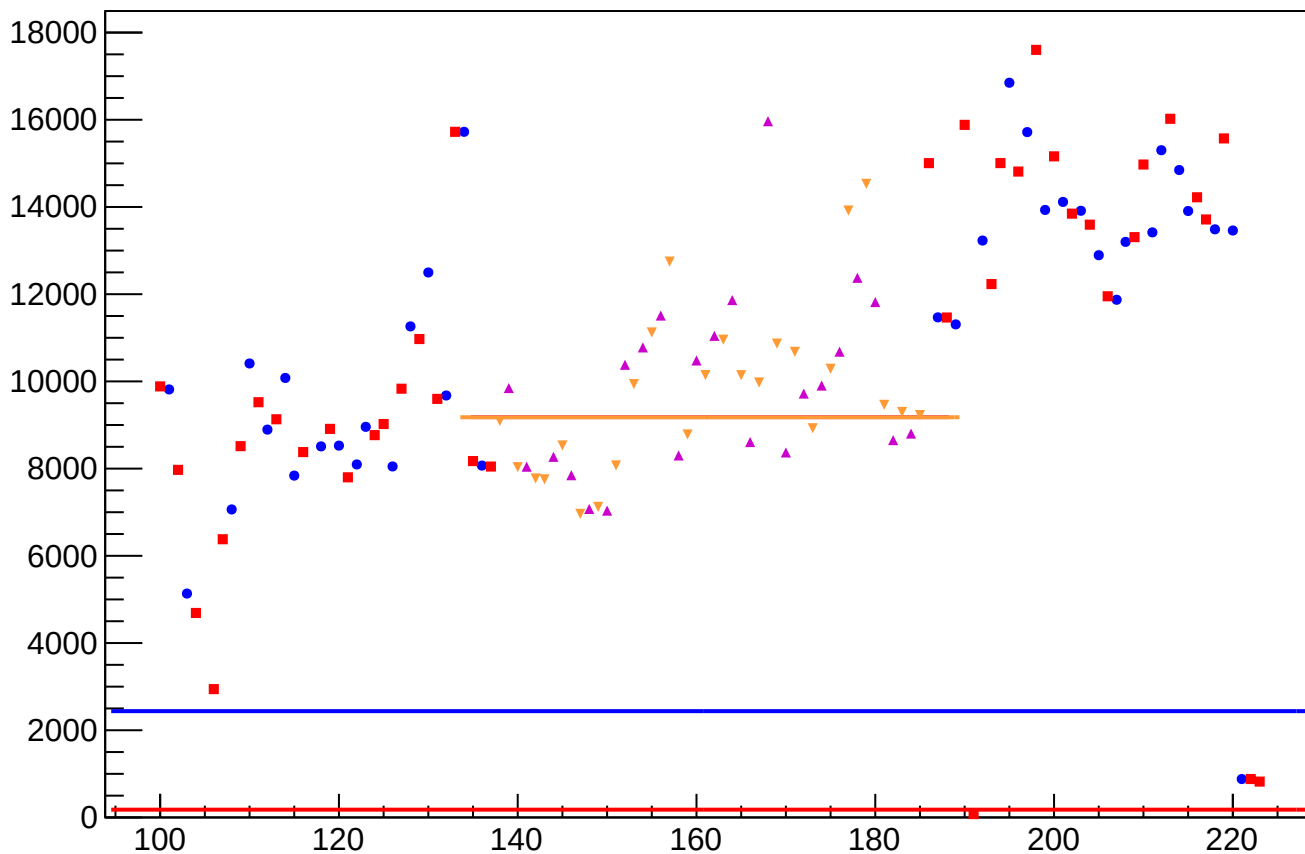
Right: -186.897+/-186.577 χ^2/NDF : 88.0/73

In: 698.925+/-922.130 χ^2/NDF : 54.0/57

Out: -215.180+/-189.121 χ^2/NDF : 77.2/63

All: -178.283+/-185.265 χ^2/NDF : 132.1/121

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 2438.008+/-0.715

χ^2/NDF : 27431925.4/34

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right: 255.559+/-0.132

χ^2/NDF : 75735856.9/73

Right Out: 178.701+/-0.134

χ^2/NDF : 38666870.3/38

In: 3577.887+/-0.652

χ^2/NDF : 43691269.2/57

Out: 246.157+/-0.134

χ^2/NDF : 73532575.5/63

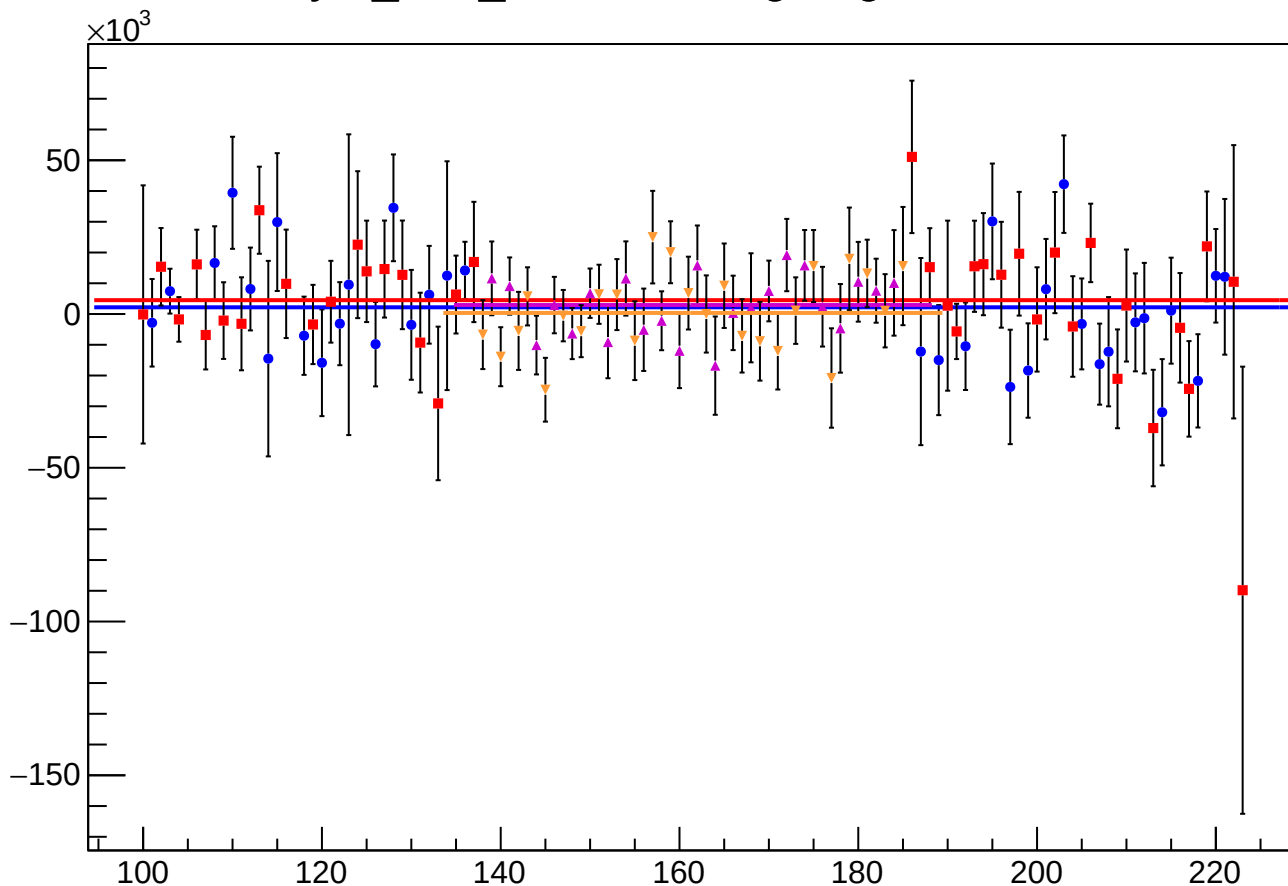
Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

All: 380.641+/-0.131

χ^2/NDF : 142278651.5/1

asym_atr2_mean vs Slug, Sign Corrected



Right In: 2182.854 $\pm$ 2582.589 χ^2 /NDF: 40.5/34

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

Right Out: 4503.934 $\pm$ 2413.935 χ^2 /NDF: 37.6/38

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

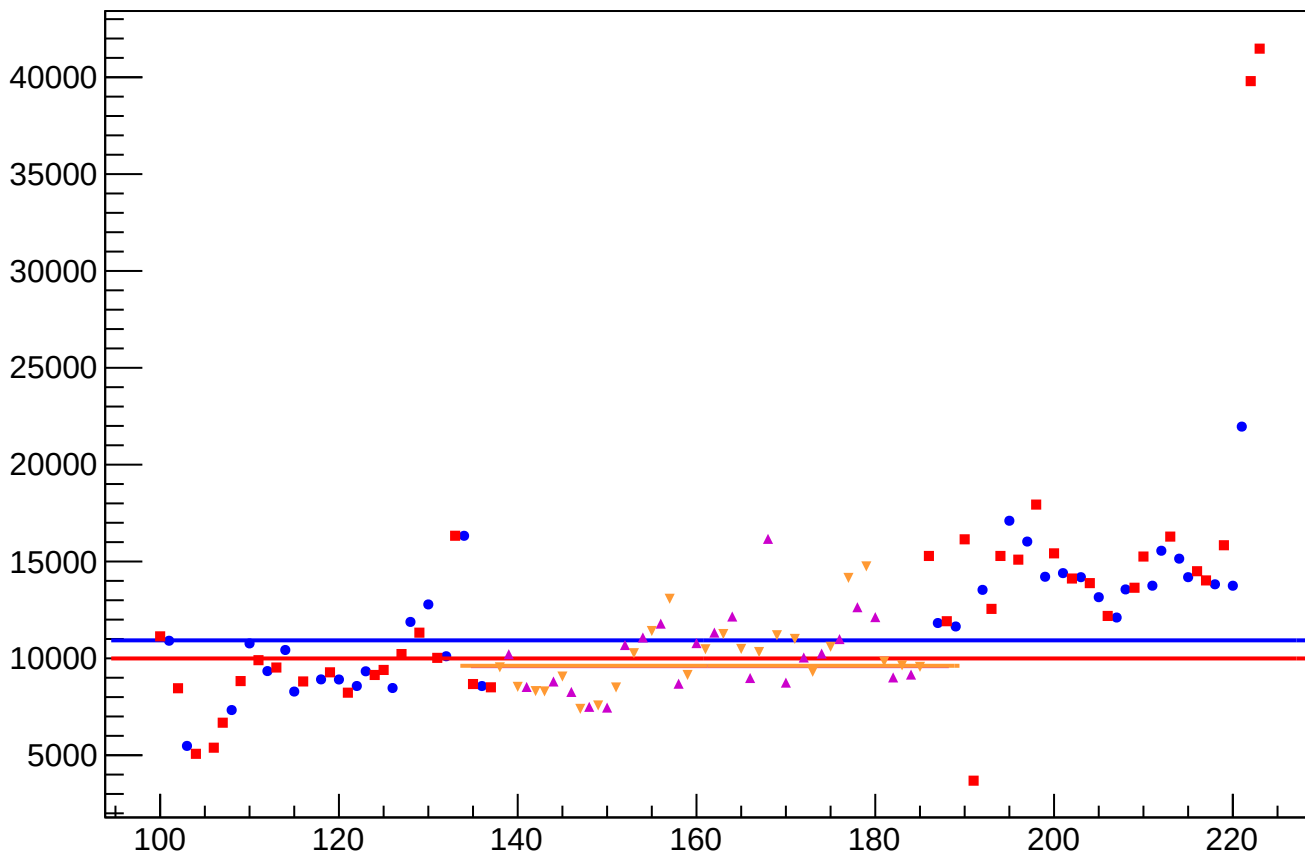
Right: 3421.651 $\pm$ 1763.521 χ^2 /NDF: 78.5/73

In: 2587.003 $\pm$ 1733.440 χ^2 /NDF: 55.4/57

Out: 2313.084 $\pm$ 1658.177 χ^2 /NDF: 65.4/63

All: 2443.968 $\pm$ 1198.232 χ^2 /NDF: 120.9/121

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10929.455+/-1.826 χ^2/NDF : 3481088.3/34

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

Right Out: 9994.722+/-1.707 χ^2/NDF : 6410431.6/38

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

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

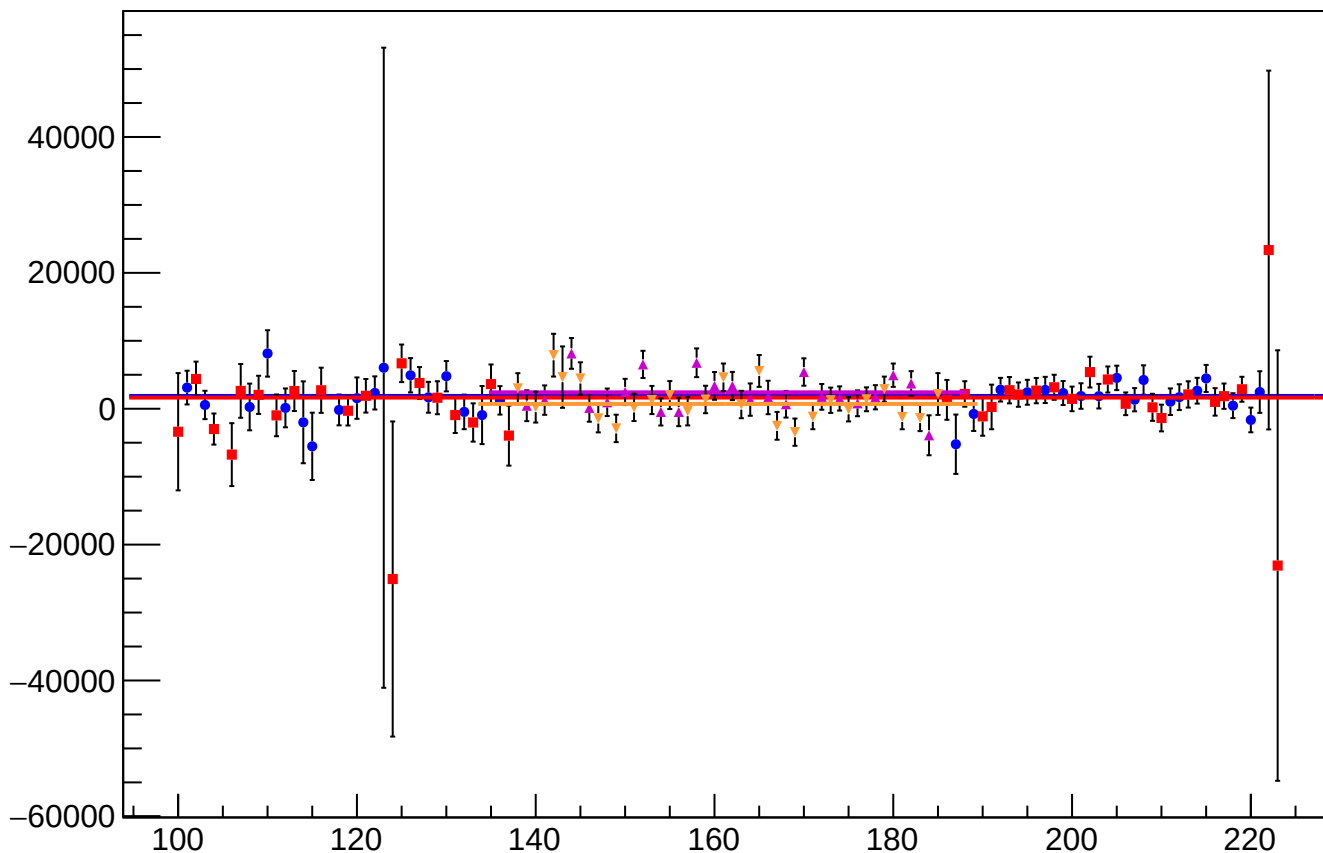
Right: 10430.554+/-1.247 χ^2/NDF : 10031362.1/73

In: 10198.142+/-1.226 χ^2/NDF :4855131.9/57

Out: 9794.843+/-1.172 χ^2/NDF :7448065.0/63

All: 9987.543+/-0.847 χ^2/NDF : 12359729.8/1

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1881.437+/-381.490 χ^2/NDF : 27.0/34

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

Right Out: 1643.665+/-385.592 χ^2/NDF : 33.2/38

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

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

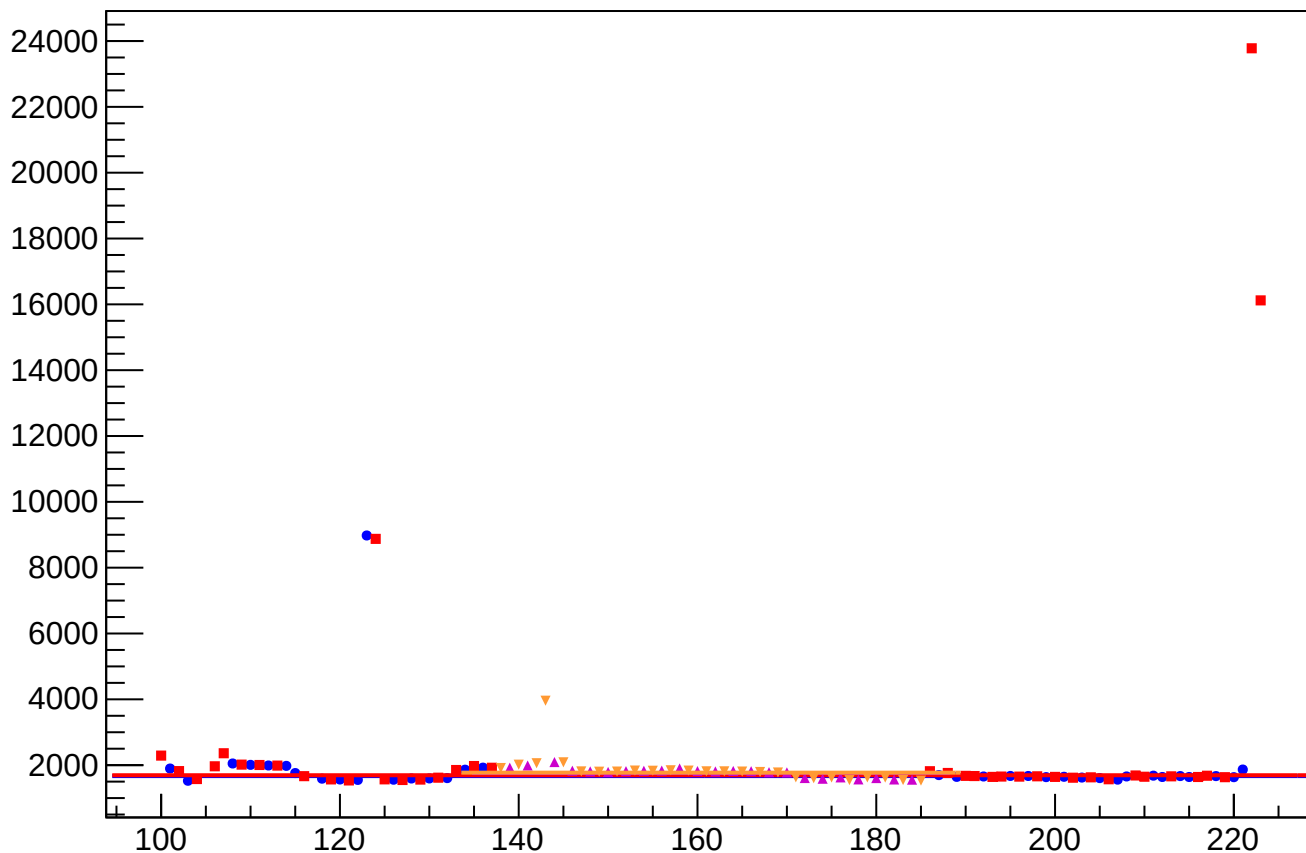
Right: 1763.823+/-271.193 χ^2/NDF : 60.4/73

In: 2120.354+/-283.437 χ^2/NDF :61.9/57

Out: 1213.606+/-283.226 χ^2/NDF :70.8/63

All: 1666.641+/-200.346 χ^2/NDF : 137.7/121

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1667.575+/-0.270 χ^2/NDF : 225689.0/34

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

Right Out: 1693.748+/-0.272 χ^2/NDF : 2255644.8/38

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

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

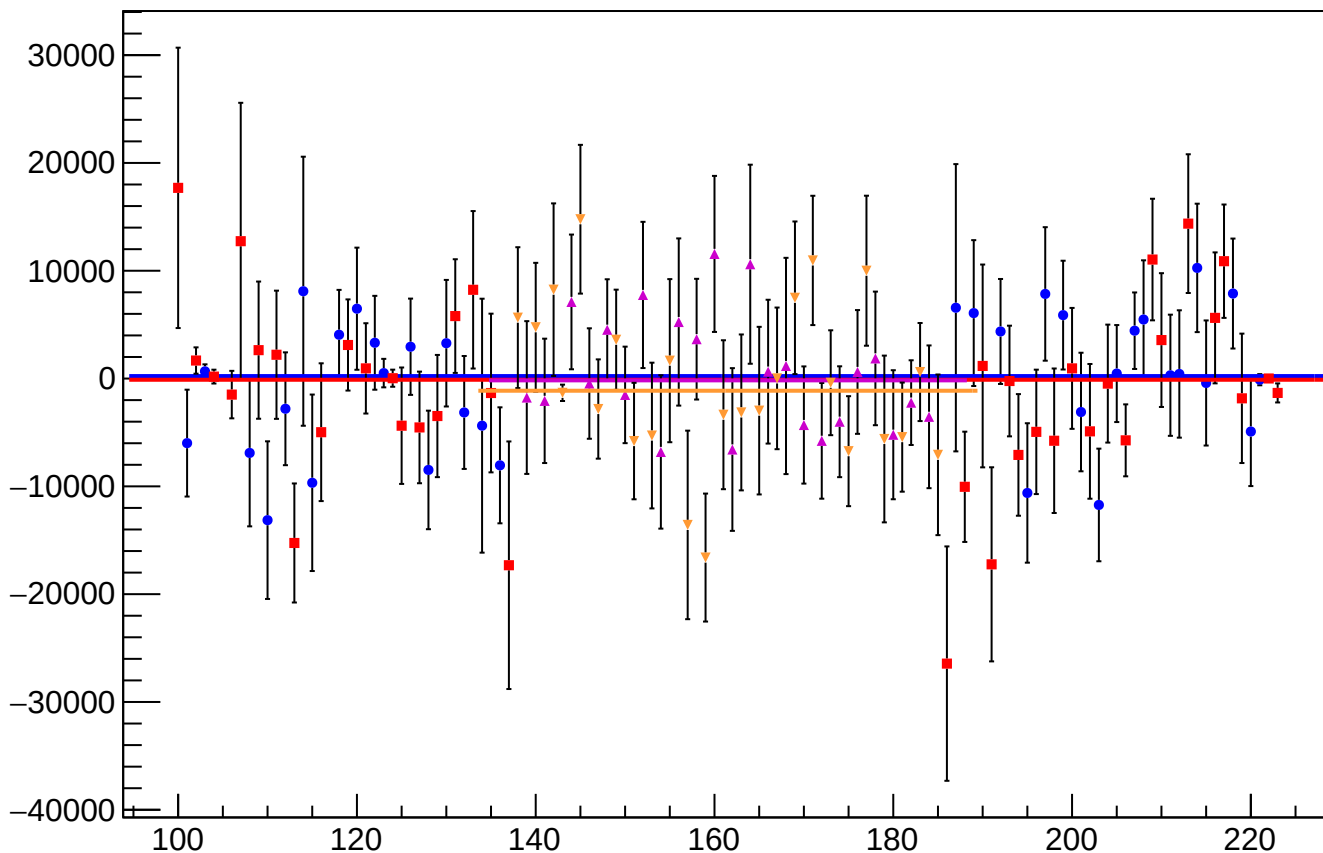
Right: 1680.541+/-0.192 χ^2/NDF : 2485997.1/73

In: 1708.801+/-0.200 χ^2/NDF : 492716.1/57

Out: 1729.745+/-0.200 χ^2/NDF : 2996142.6/63

All: 1719.289+/-0.142 χ^2/NDF : 3494327.0/12

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 229.594 $\pm$ 359.760 χ^2 /NDF: 39.1/34

Left Out: -1129.807 $\pm$ 647.600 χ^2 /NDF:31.5/24

Right Out: -112.505 $\pm$ 290.385 χ^2 /NDF: 57.6/38

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

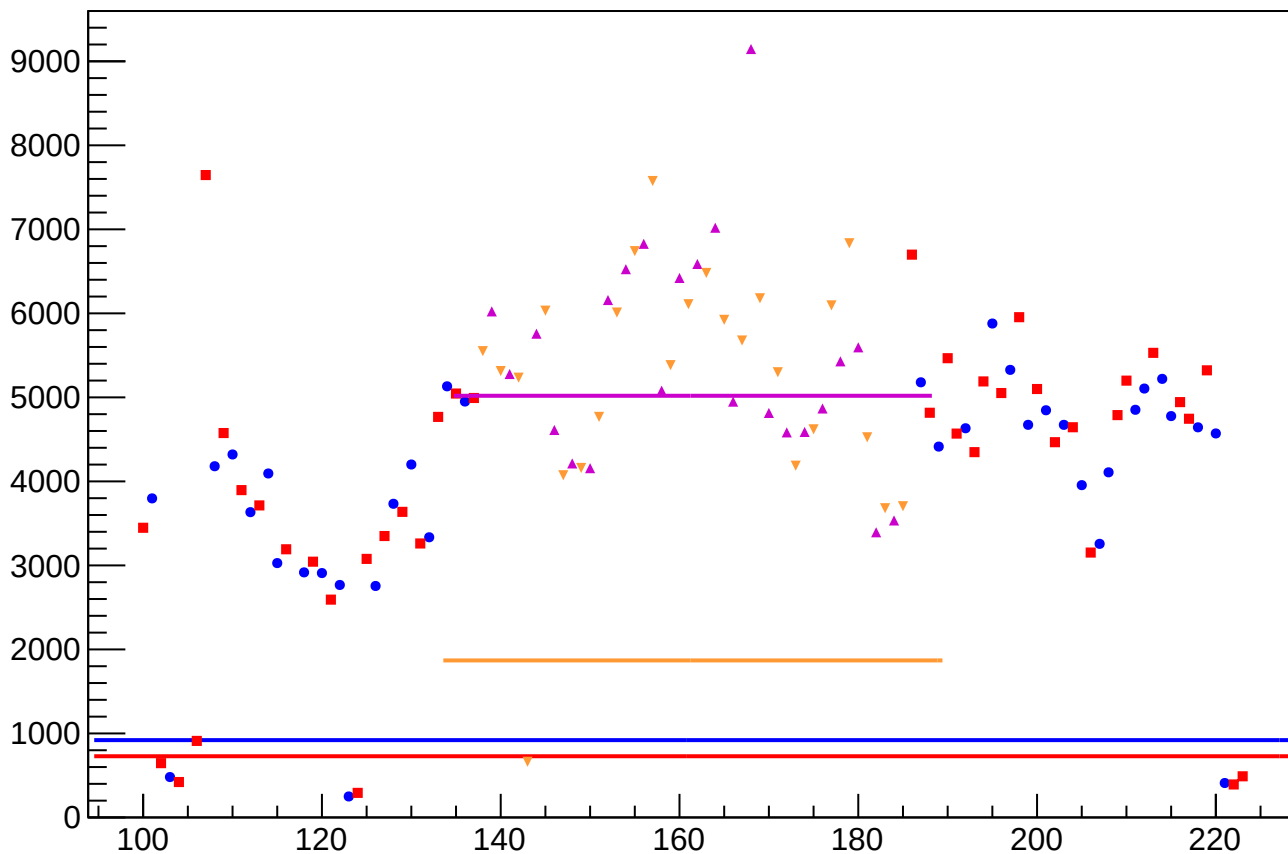
Right: 22.451 $\pm$ 225.961 χ^2 /NDF: 97.3/73

In: 198.359 $\pm$ 345.347 χ^2 /NDF:53.4/57

Out: -282.807 $\pm$ 264.967 χ^2 /NDF:91.2/63

All: -104.514 $\pm$ 210.220 χ^2 /NDF: 145.7/121

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 920.365 $\pm$ 0.254 χ^2 /NDF: 25805525.1/34

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

Right Out: 728.540 $\pm$ 0.205 χ^2 /NDF: 27433868.3/38

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

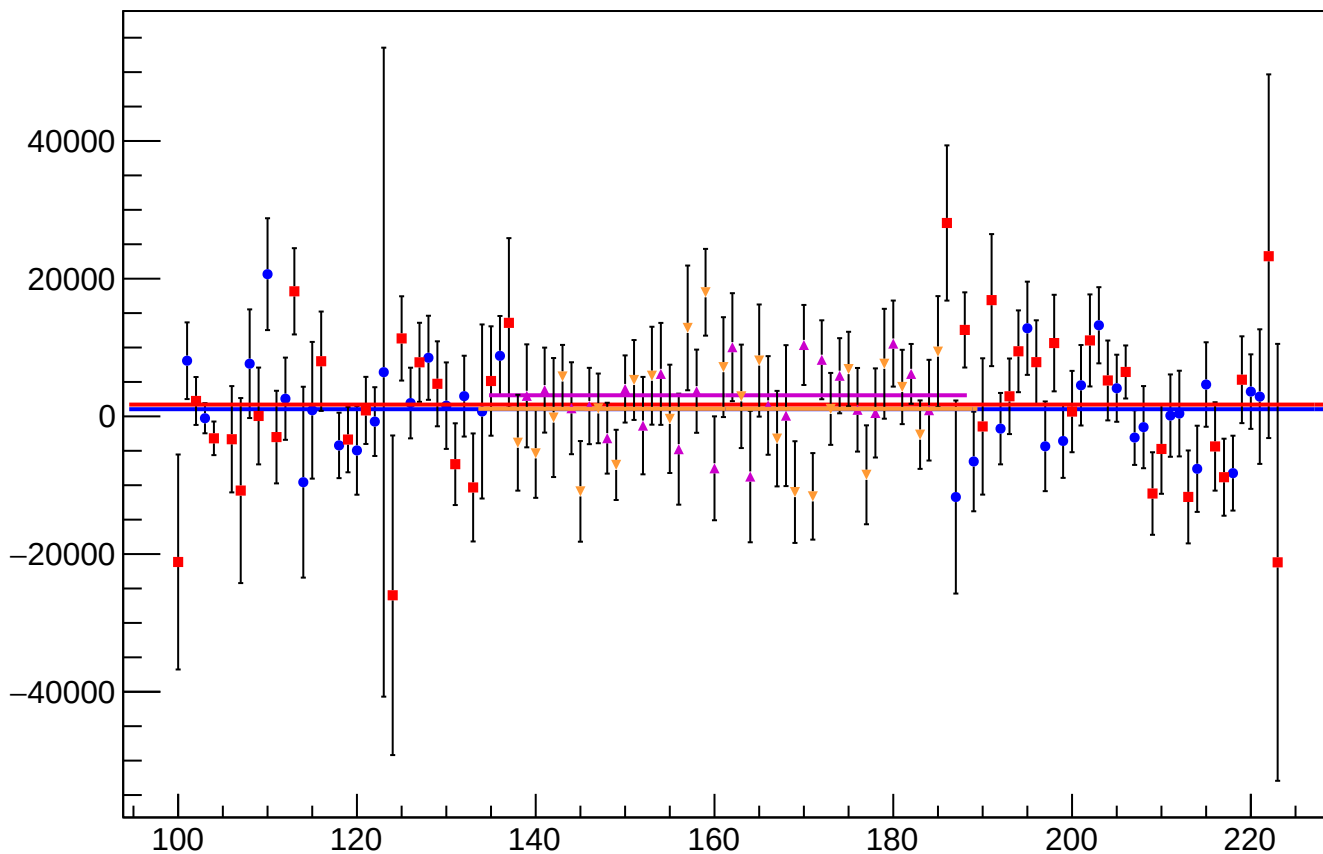
Right: 804.214 $\pm$ 0.160 χ^2 /NDF: 53583687.5/73

In: 1242.213 $\pm$ 0.244 χ^2 /NDF:47759317.2/57

Out: 919.457 $\pm$ 0.187 χ^2 /NDF:52450414.7/63

All: 1039.052 $\pm$ 0.149 χ^2 /NDF: 101309330.7

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1041.153+/-952.945 χ^2/NDF : 33.8/34

Left Out: 1094.317+/-1273.113 χ^2/NDF : 32.0/24

Right Out: 1712.548+/-962.650 χ^2/NDF : 63.5/38

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

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

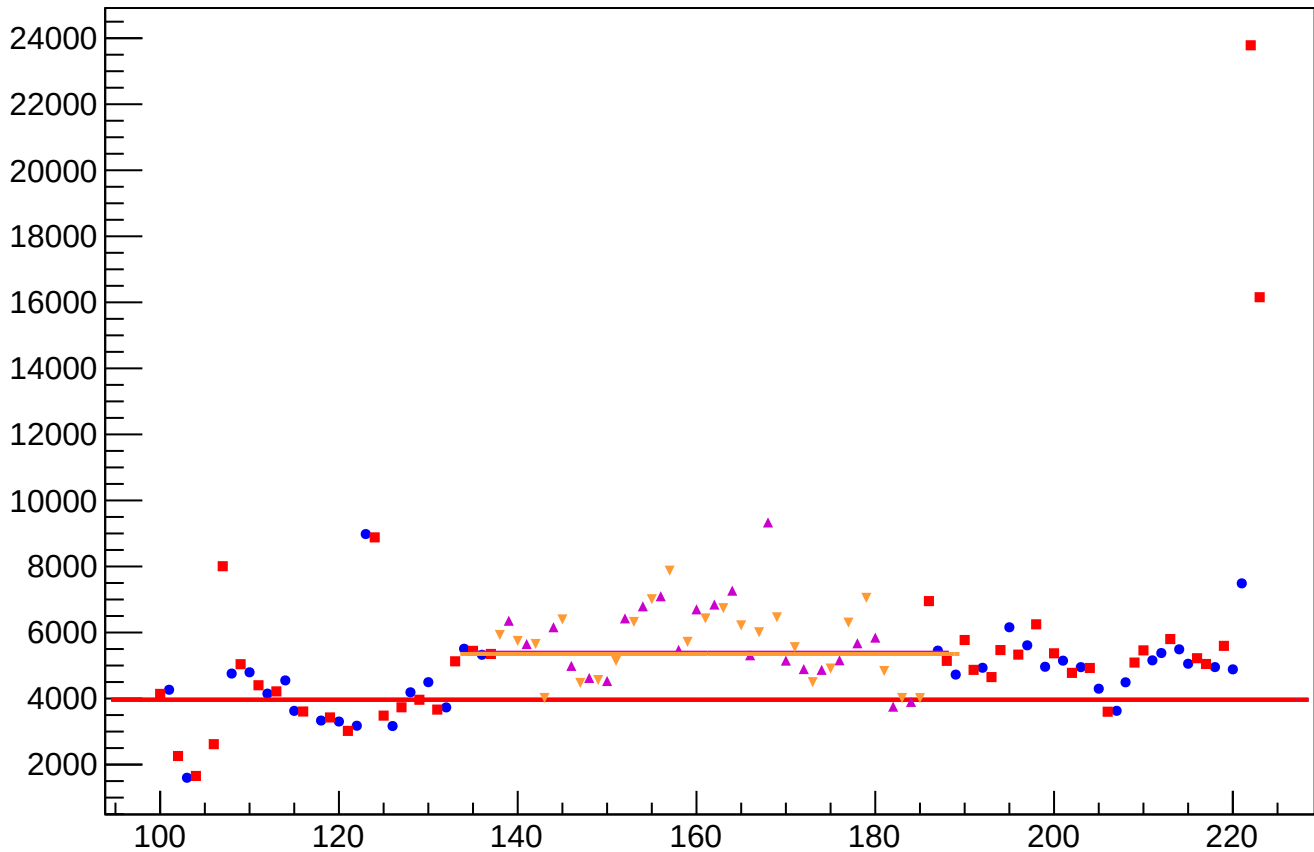
Right: 1373.449+/-677.239 χ^2/NDF : 97.6/73

In: 1735.740+/-772.274 χ^2/NDF : 47.9/57

Out: 1487.657+/-767.851 χ^2/NDF : 95.6/63

All: 1610.986+/-544.510 χ^2/NDF : 143.6/121

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3964.018+/-0.674 χ^2/NDF : 4179183.3/34

Left Out: 5350.804+/-0.900 χ^2/NDF : 1241497.9/24

Right Out: 3968.150+/-0.675 χ^2/NDF : 6026851.7/38

Left In: 5389.724+/-0.932 χ^2/NDF : 1309863.0/22

Left: 5369.587+/-0.648 χ^2/NDF : 2552263.0/47

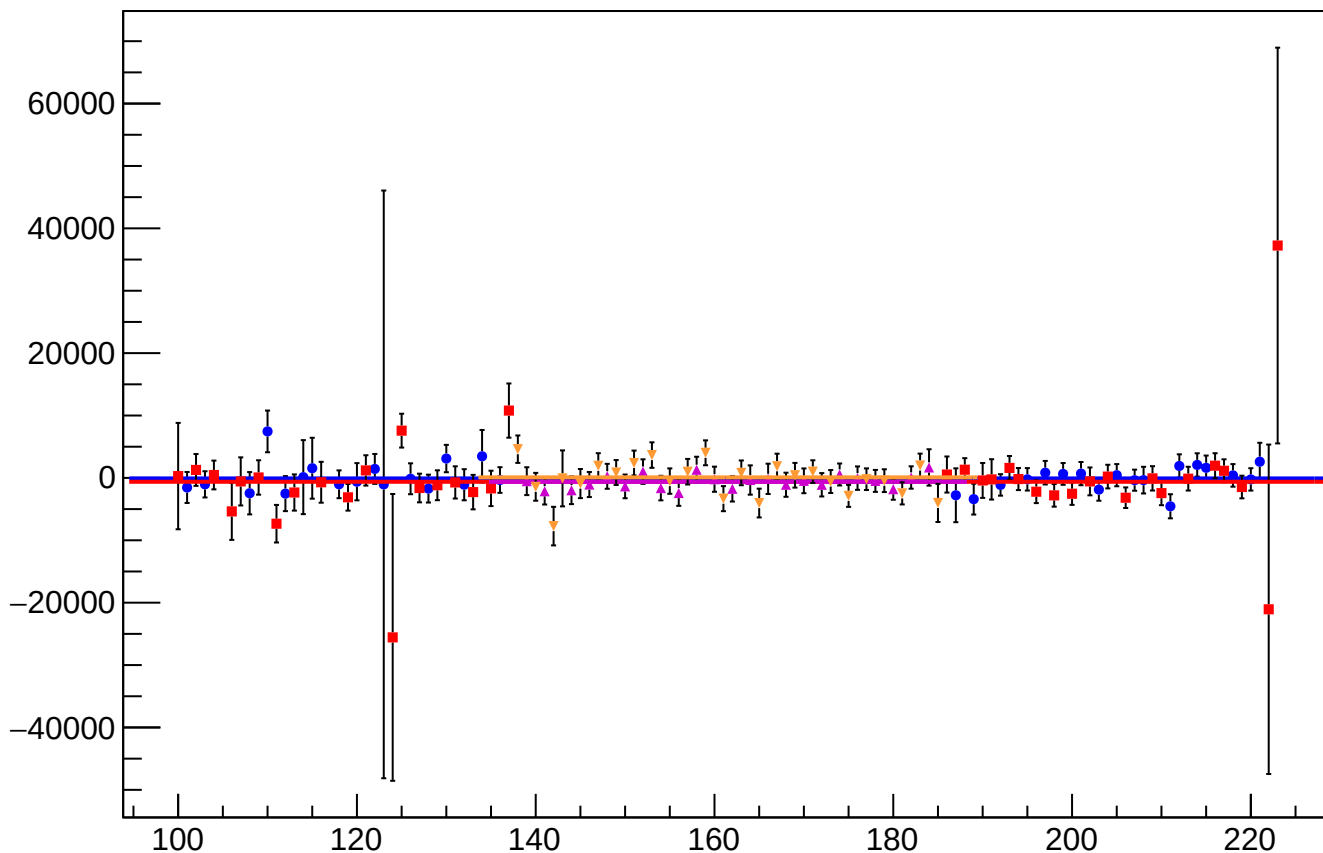
Right: 3966.081+/-0.477 χ^2/NDF : 10206053.8/73

In: 4453.375+/-0.546 χ^2/NDF : 7025616.5/57

Out: 4465.860+/-0.540 χ^2/NDF : 8778171.5/63

All: 4459.686+/-0.384 χ^2/NDF : 15804052.2/117

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -82.497 ± 376.278 χ^2/NDF : 24.9/34

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -621.046 ± 380.134 χ^2/NDF : 41.6/38

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

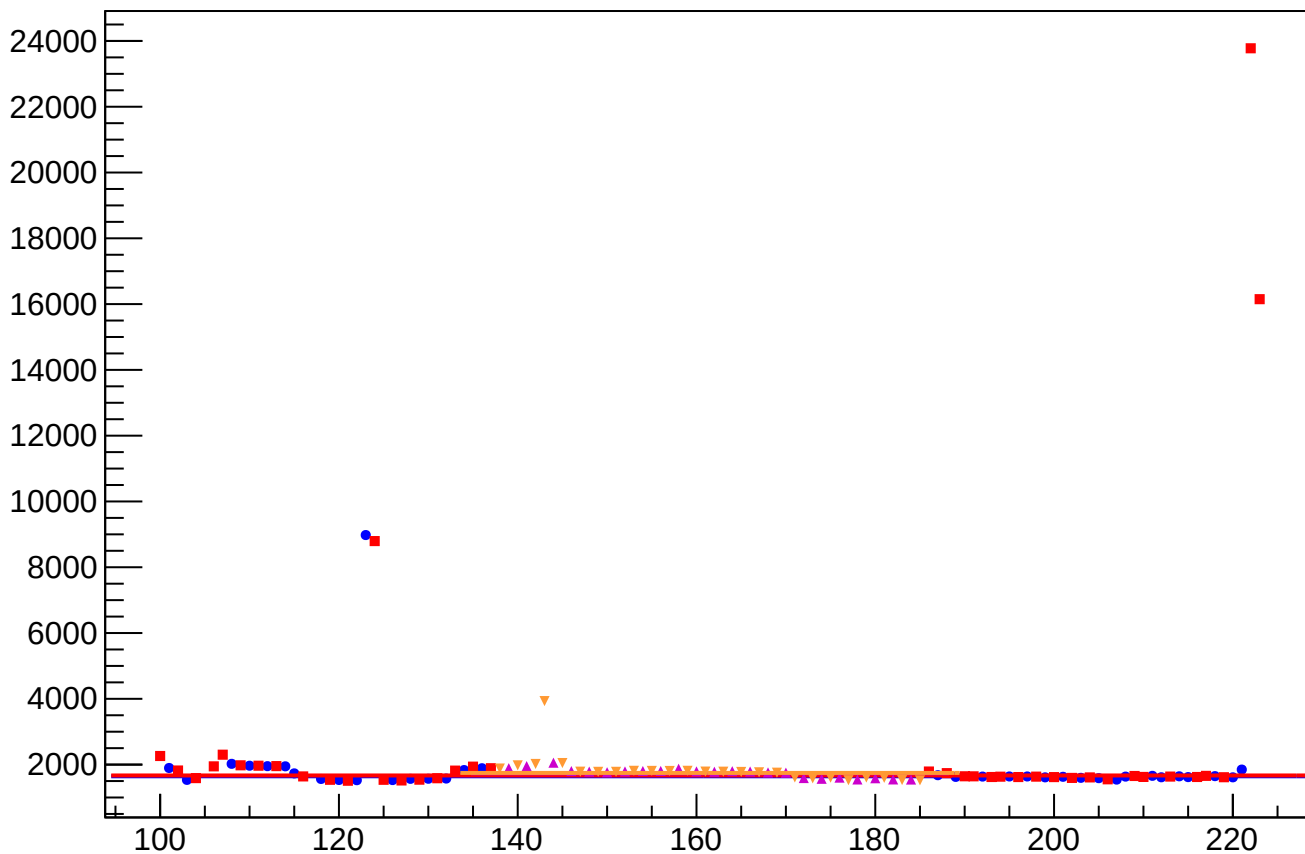
Right: -349.026 ± 267.422 χ^2/NDF : 67.5/73

In: -332.384 ± 279.553 χ^2/NDF : 32.0/57

Out: -295.421 ± 279.236 χ^2/NDF : 79.2/63

All: -313.881 ± 197.562 χ^2/NDF : 111.2/121

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1644.797 $\pm$ 0.266 χ^2 /NDF: 223565.5/34

Left Out: 1747.320 $\pm$ 0.291 χ^2 /NDF: 698192.3/24

Right Out: 1669.898 $\pm$ 0.268 χ^2 /NDF: 2255917.1/38

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

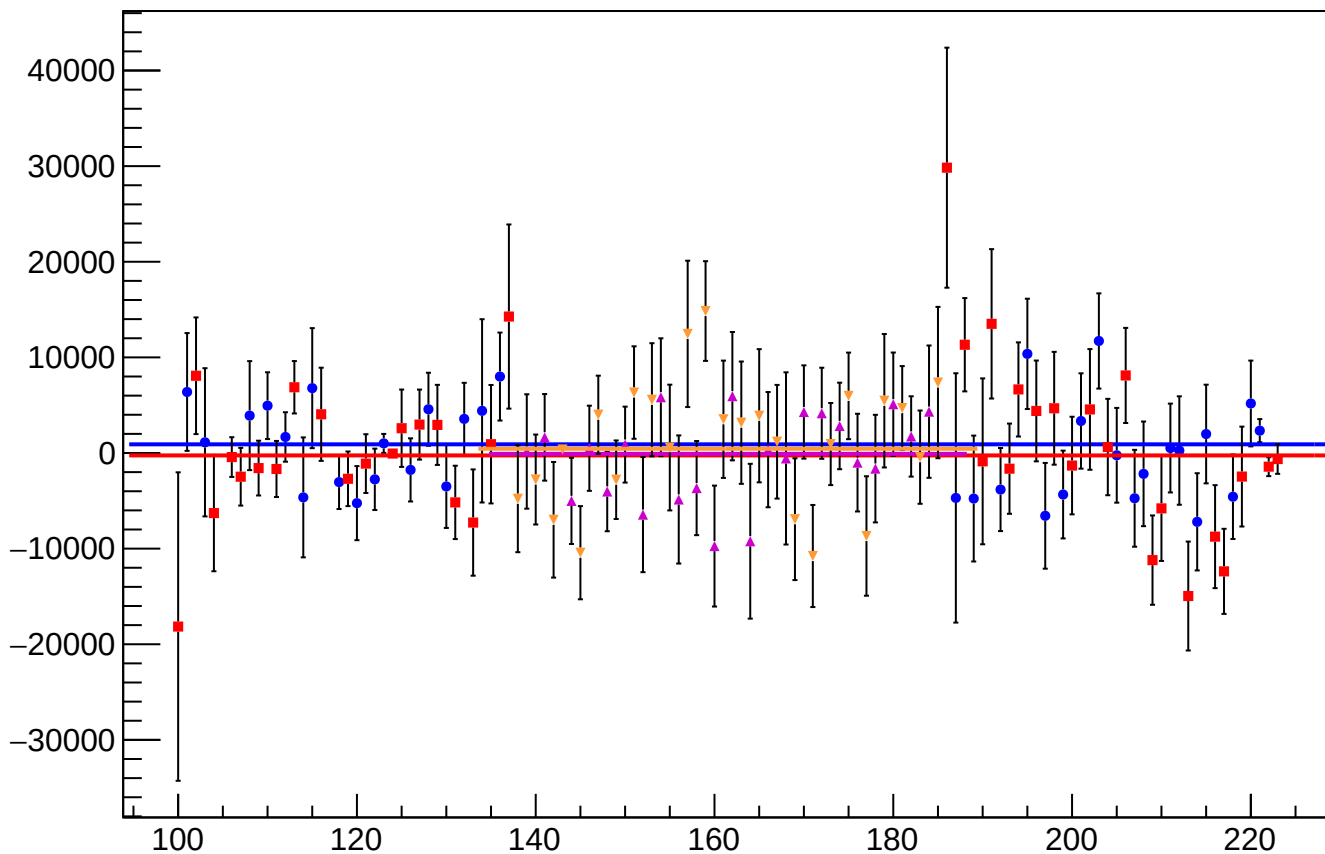
Right: 1657.238 $\pm$ 0.189 χ^2 /NDF: 2483893.8/73

In: 1685.453 $\pm$ 0.198 χ^2 /NDF: 482446.5/57

Out: 1705.488 $\pm$ 0.197 χ^2 /NDF: 2992356.7/63

All: 1695.490 $\pm$ 0.140 χ^2 /NDF: 3479949.3/12

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 906.816+/-548.369 χ^2/NDF : 36.5/34

Left Out: 442.187+/-440.335 χ^2/NDF :33.9/24

Right Out: -252.795+/-318.181 χ^2/NDF : 67.3/38

Left In: -88.508+/-1094.838 χ^2/NDF :13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

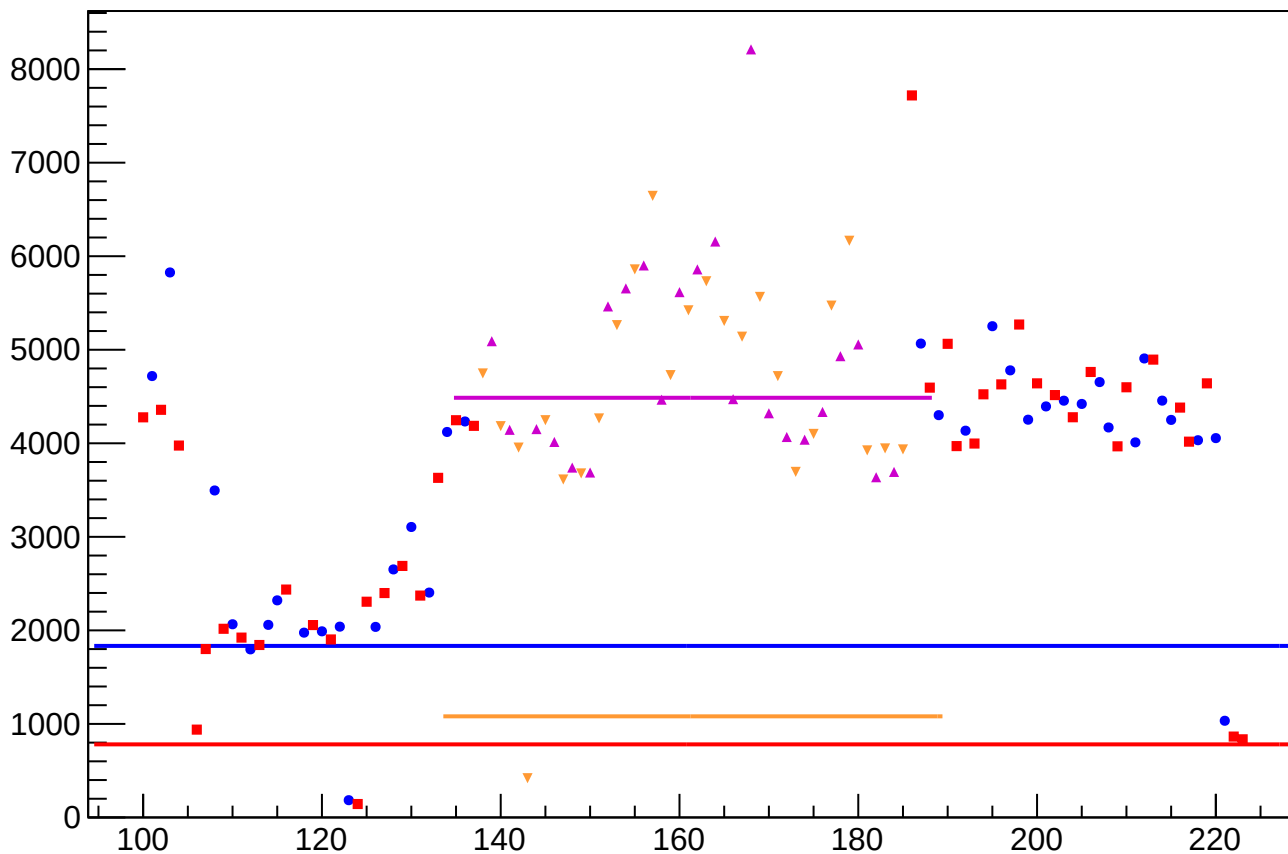
Right: 39.277+/-275.209 χ^2/NDF : 107.2/73

In: 707.199+/-490.306 χ^2/NDF :50.6/57

Out: -14.397+/-257.898 χ^2/NDF :102.9/63

All: 141.981+/-228.249 χ^2/NDF : 155.2/121

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1833.950+/-0.388

χ^2/NDF : 16931479.6/34

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right Out: 781.309+/-0.225

χ^2/NDF : 28587857.5/38

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289 χ^2/NDF : 42294704.7/47

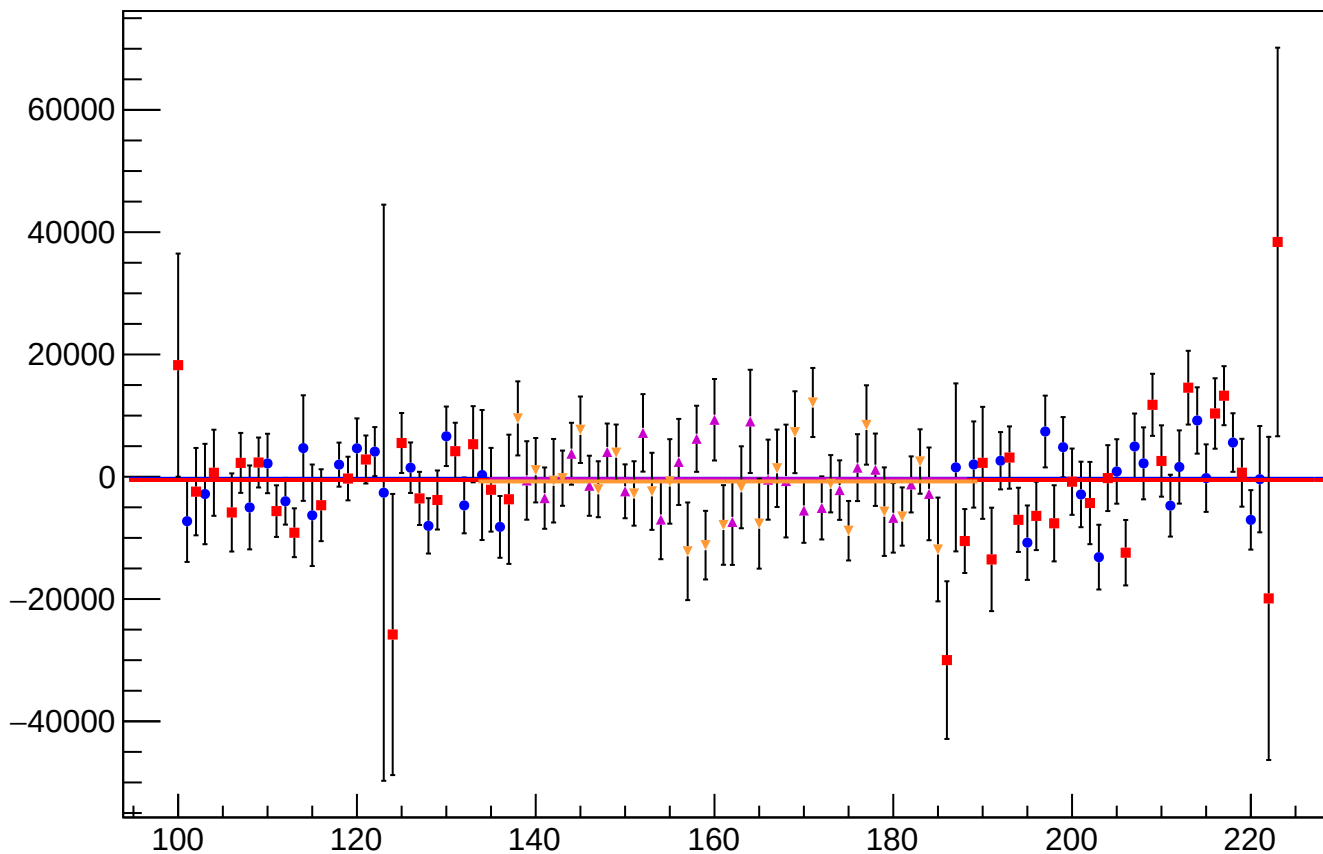
Right: 1046.439+/-0.195 χ^2/NDF : 51032756.3/73

In: 2365.948+/-0.347 χ^2/NDF : 27498816.4/57

Out: 884.113+/-0.182 χ^2/NDF : 53652755.5/63

All: 1205.244+/-0.161 χ^2/NDF : 95460825.1/11

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -333.788 ± 914.663 χ^2/NDF : 35.8/34

Left Out: -766.008 ± 1147.372 χ^2/NDF : 29.9/24

Right Out: -531.203 ± 901.200 χ^2/NDF : 63.0/38

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

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

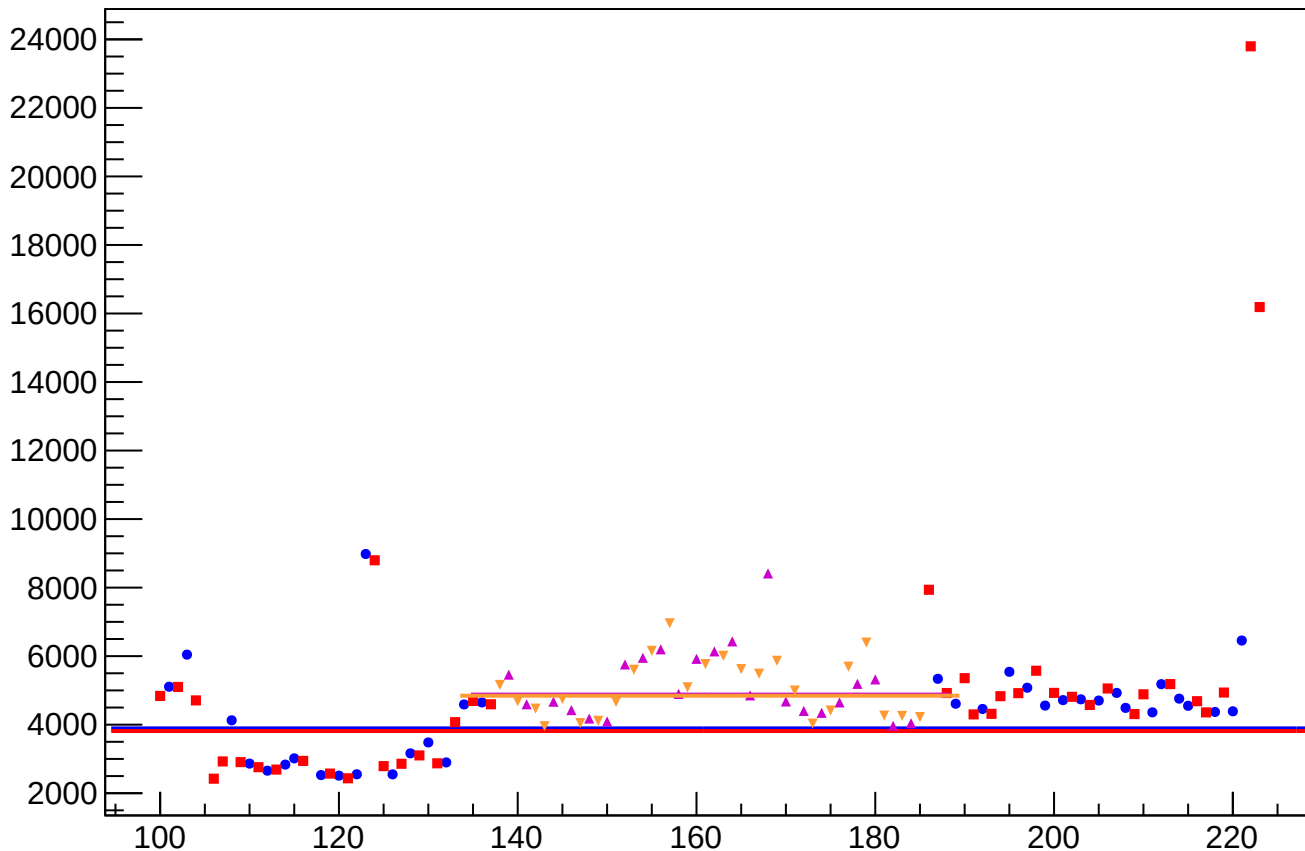
Right: -433.959 ± 641.951 χ^2/NDF : 98.8/73

In: -354.352 ± 724.356 χ^2/NDF : 50.0/57

Out: -620.791 ± 708.722 χ^2/NDF : 92.9/63

All: -490.478 ± 506.579 χ^2/NDF : 143.0/121

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3891.315+/-0.647 χ^2/NDF : 2656271.4/34

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

Right Out: 3815.331+/-0.633 χ^2/NDF : 4453694.0/38

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

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

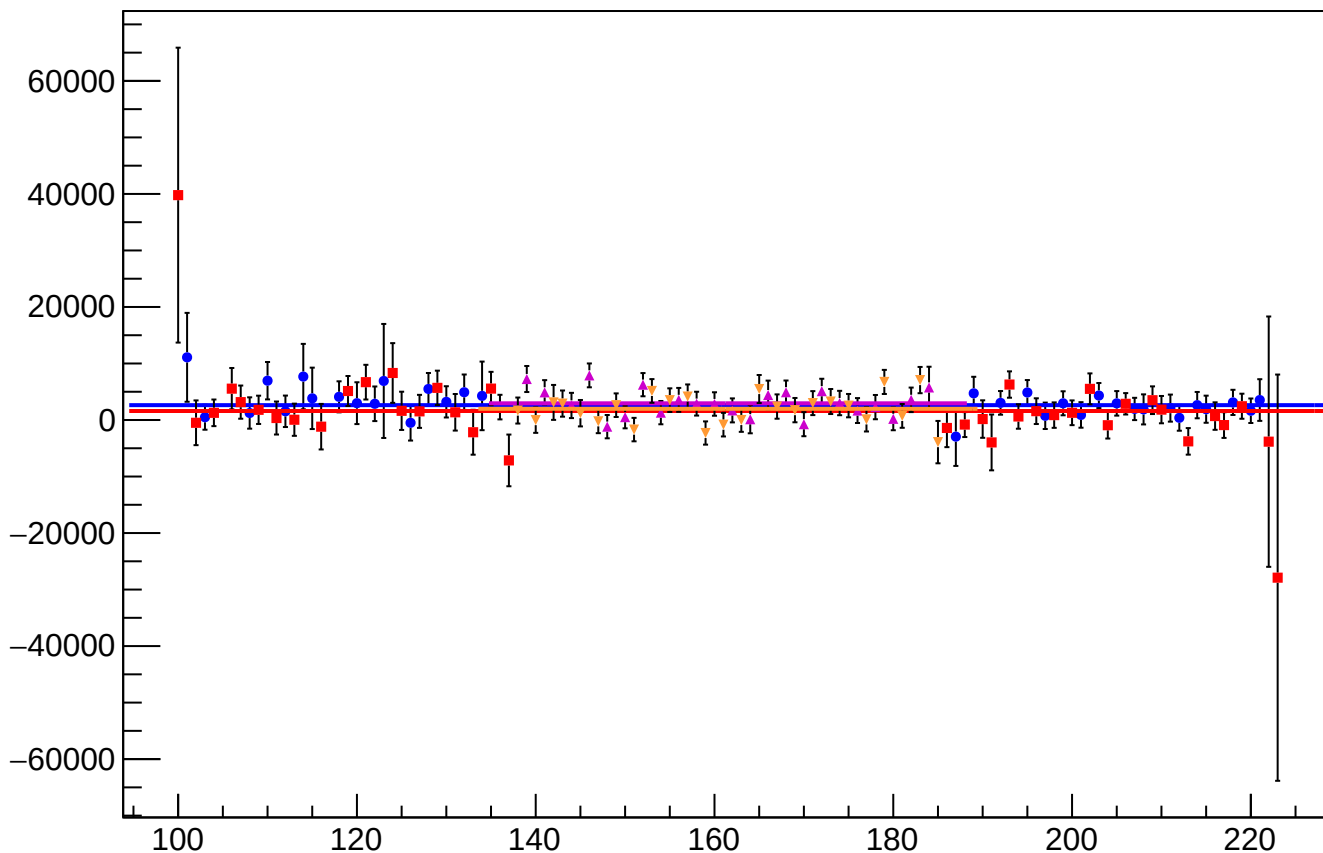
Right: 3852.486+/-0.452 χ^2/NDF : 7117018.6/73

In: 4258.980+/-0.512 χ^2/NDF : 4481661.4/57

Out: 4204.988+/-0.499 χ^2/NDF : 6366012.7/63

All: 4231.275+/-0.357 χ^2/NDF : 10853376.0/130

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2629.069+/-453.102 χ^2/NDF : 14.4/34

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1594.496+/-450.937 χ^2/NDF : 38.6/38

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

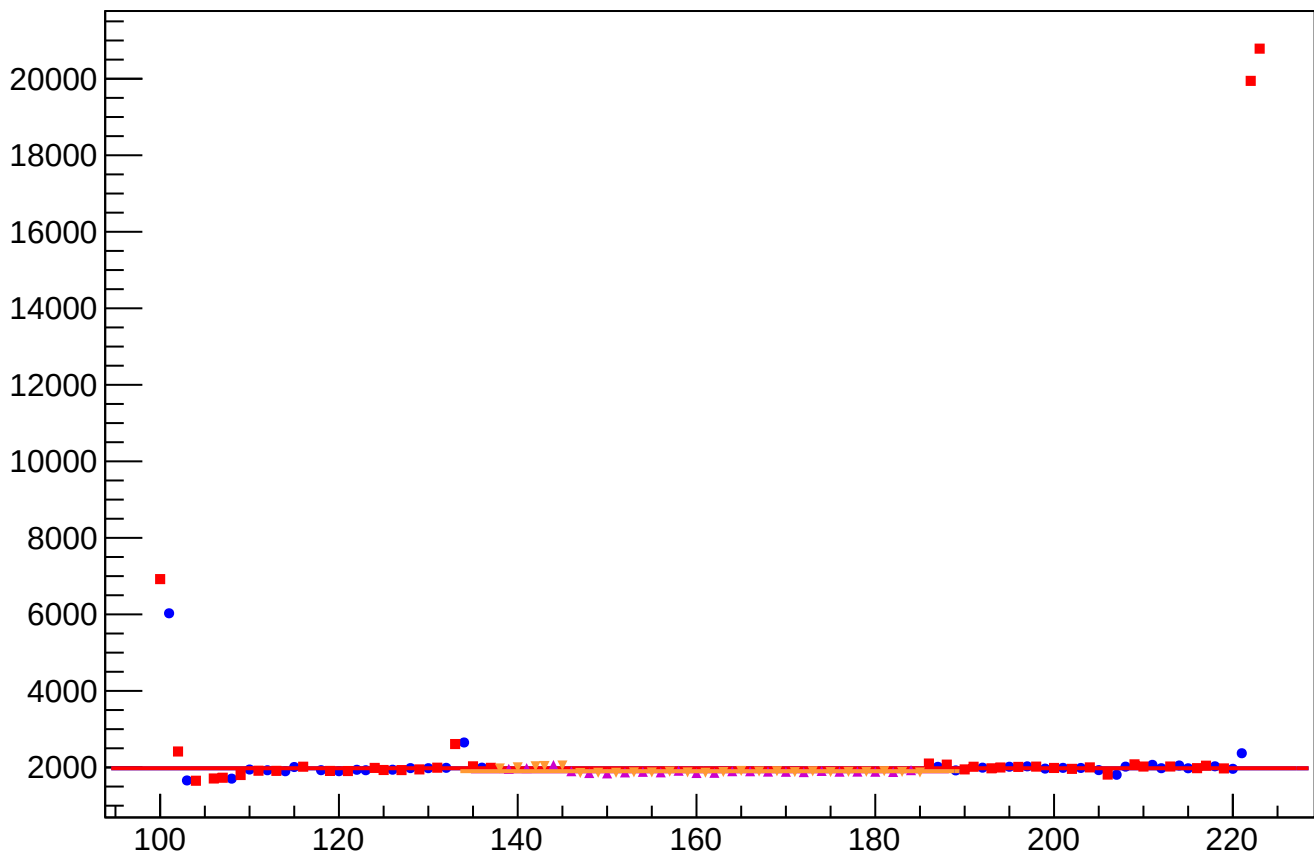
Right: 2109.305+/-319.623 χ^2/NDF : 55.7/73

In: 2791.963+/-320.902 χ^2/NDF : 43.1/57

Out: 1793.370+/-316.086 χ^2/NDF : 71.5/63

All: 2285.116+/-225.190 χ^2/NDF : 119.5/121

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1976.329+/-0.320 χ^2/NDF : 667179.4/34

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1978.933+/-0.319 χ^2/NDF : 2122334.7/38

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

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

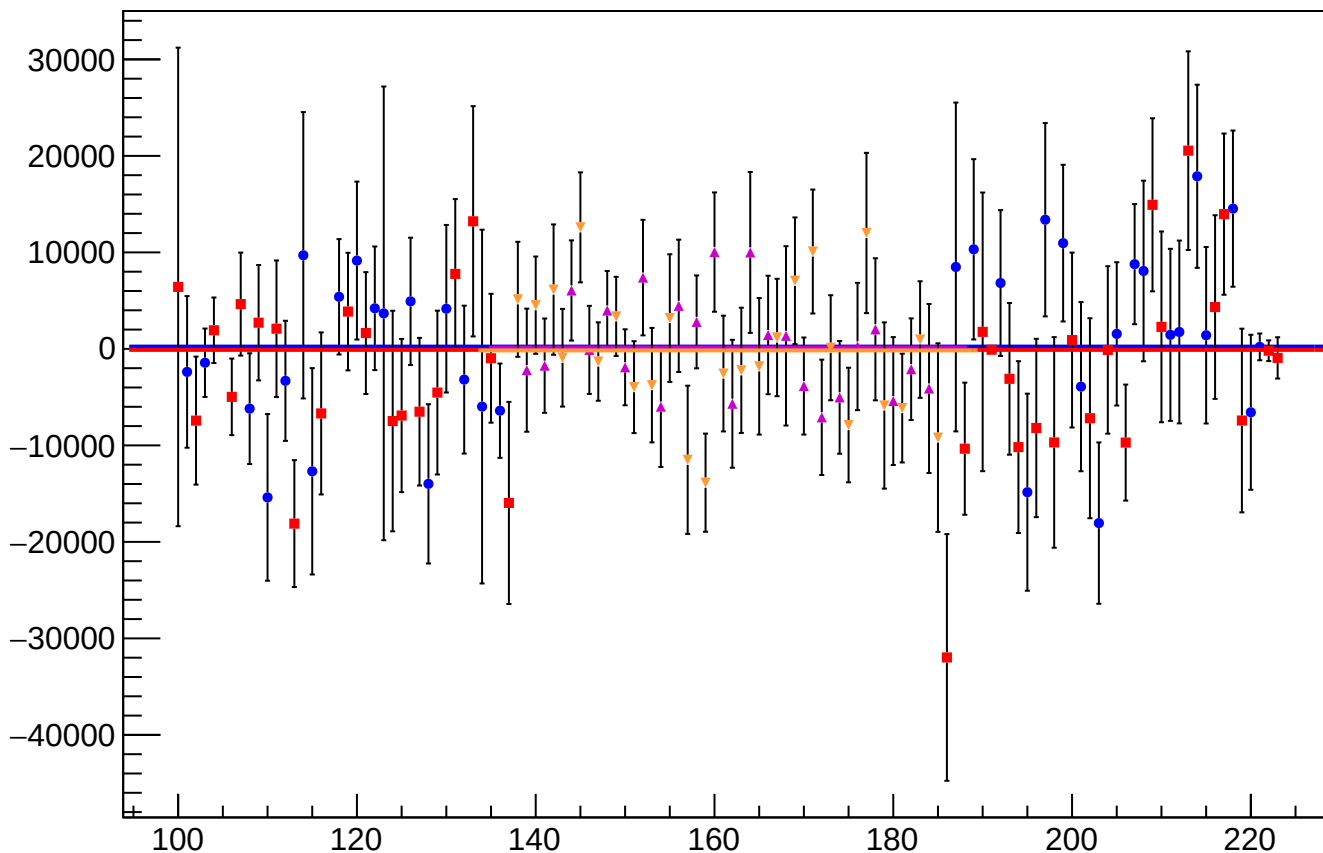
Right: 1977.638+/-0.226 χ^2/NDF : 2789547.3/73

In: 1937.018+/-0.227 χ^2/NDF : 718564.6/57

Out: 1939.774+/-0.223 χ^2/NDF : 2182508.2/63

All: 1938.418+/-0.159 χ^2/NDF : 2901147.7/12

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: 237.502 $\pm$ 949.568 χ^2 /NDF: 38.0/34

Left Out: -157.539 $\pm$ 1165.844 χ^2 /NDF:29.5/24

Right Out: -102.263 $\pm$ 108.800 χ^2 /NDF: 44.8/38

Left In: 139.000 $\pm$ 1190.889 χ^2 /NDF:14.7/22

Left: -12.420 $\pm$ 833.090 χ^2 /NDF: 44.2/47

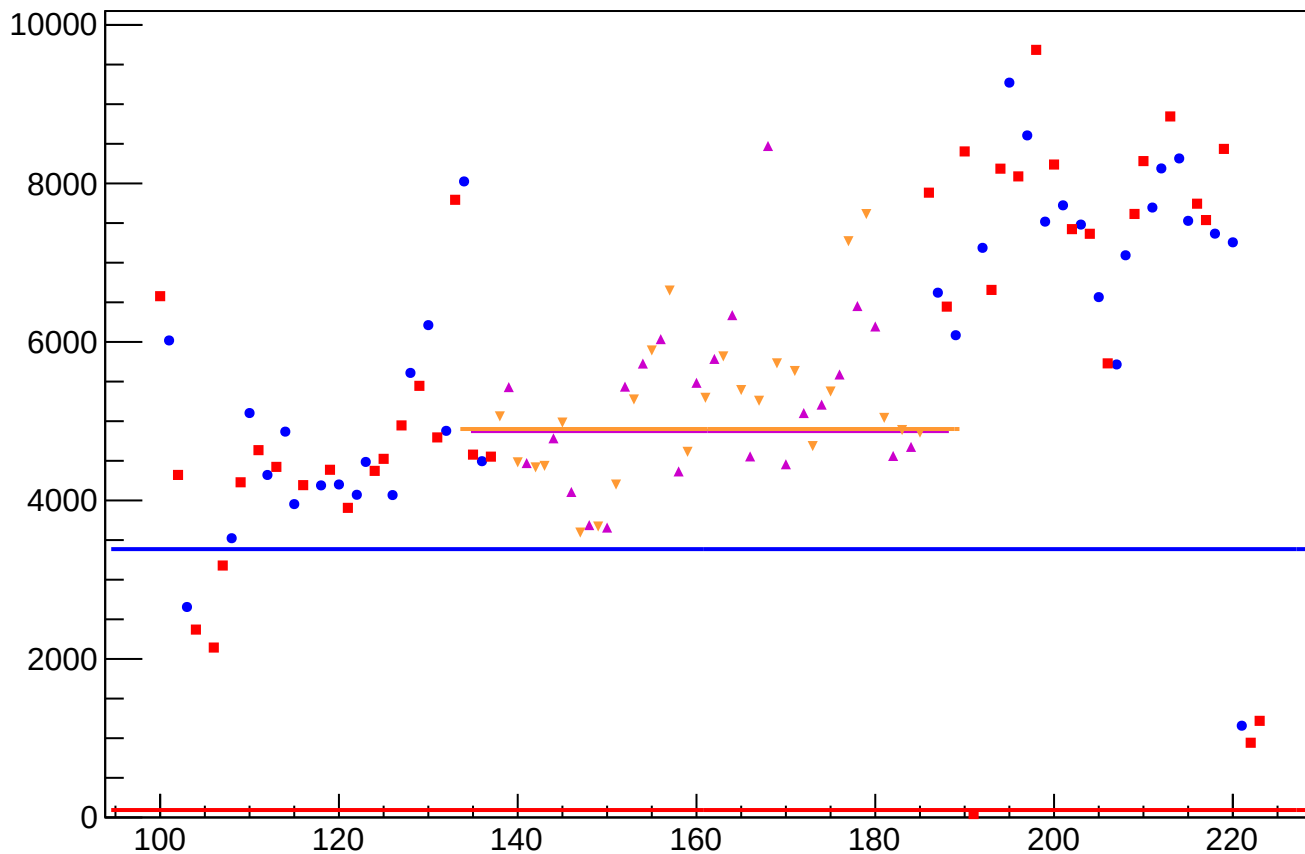
Right: -97.860 $\pm$ 108.093 χ^2 /NDF: 82.9/73

In: 199.217 $\pm$ 742.443 χ^2 /NDF:52.8/57

Out: -102.740 $\pm$ 108.329 χ^2 /NDF:74.3/63

All: -96.445 $\pm$ 107.194 χ^2 /NDF: 127.2/121

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 3385.789 $\pm$ 0.671 χ^2 /NDF: 13685284.4/34

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF: 1136916.0/24

Right Out: 93.686 $\pm$ 0.077 χ^2 /NDF: 39109613.6/38

Left In: 4875.112 $\pm$ 0.842 χ^2 /NDF: 1229198.0/22

Left: 4888.513 $\pm$ 0.589 χ^2 /NDF: 2366610.1/47

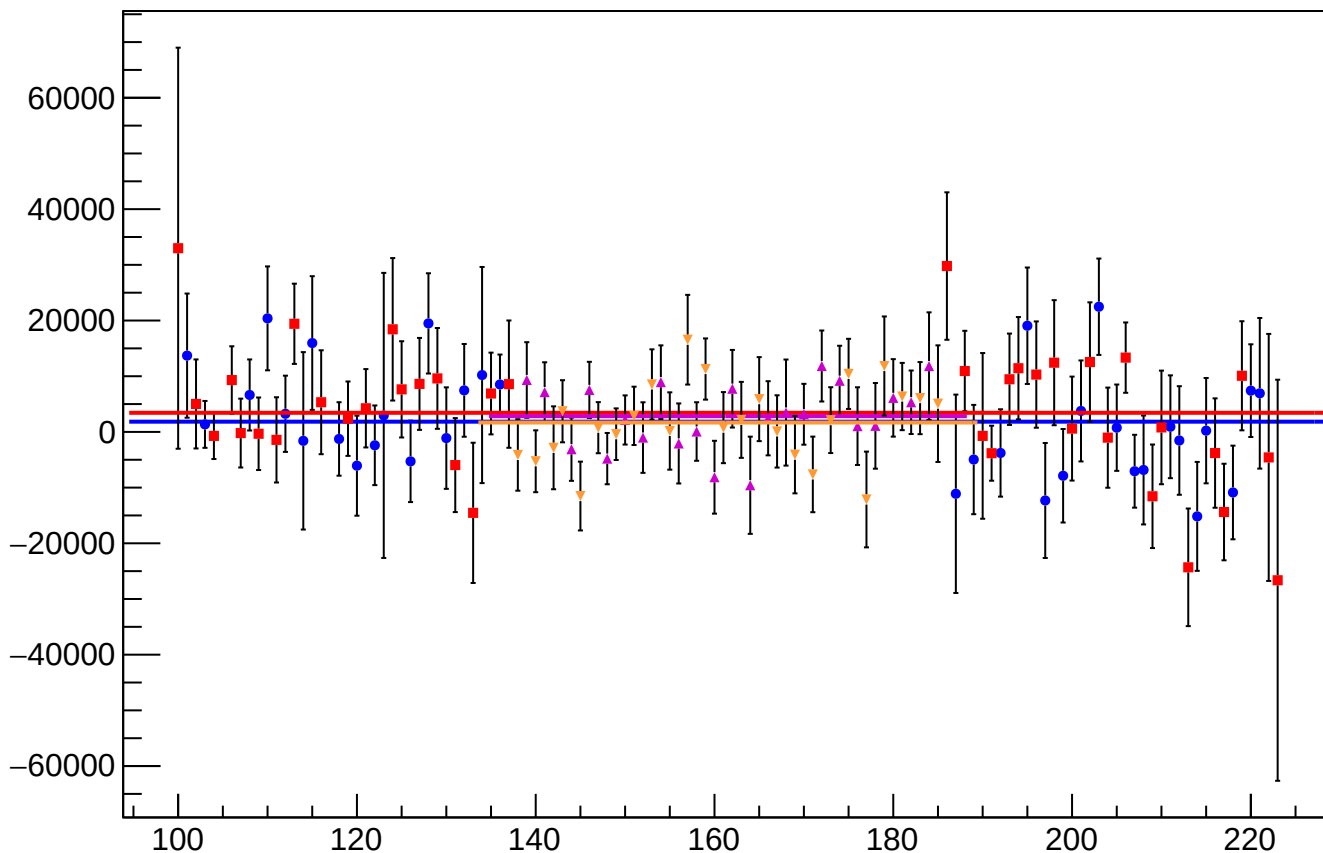
Right: 136.346 $\pm$ 0.076 χ^2 /NDF: 76522822.0/73

In: 3964.648 $\pm$ 0.525 χ^2 /NDF: 16826707.6/57

Out: 135.196 $\pm$ 0.077 χ^2 /NDF: 73963783.7/63

All: 215.024 $\pm$ 0.076 χ^2 /NDF: 142889304.2/127

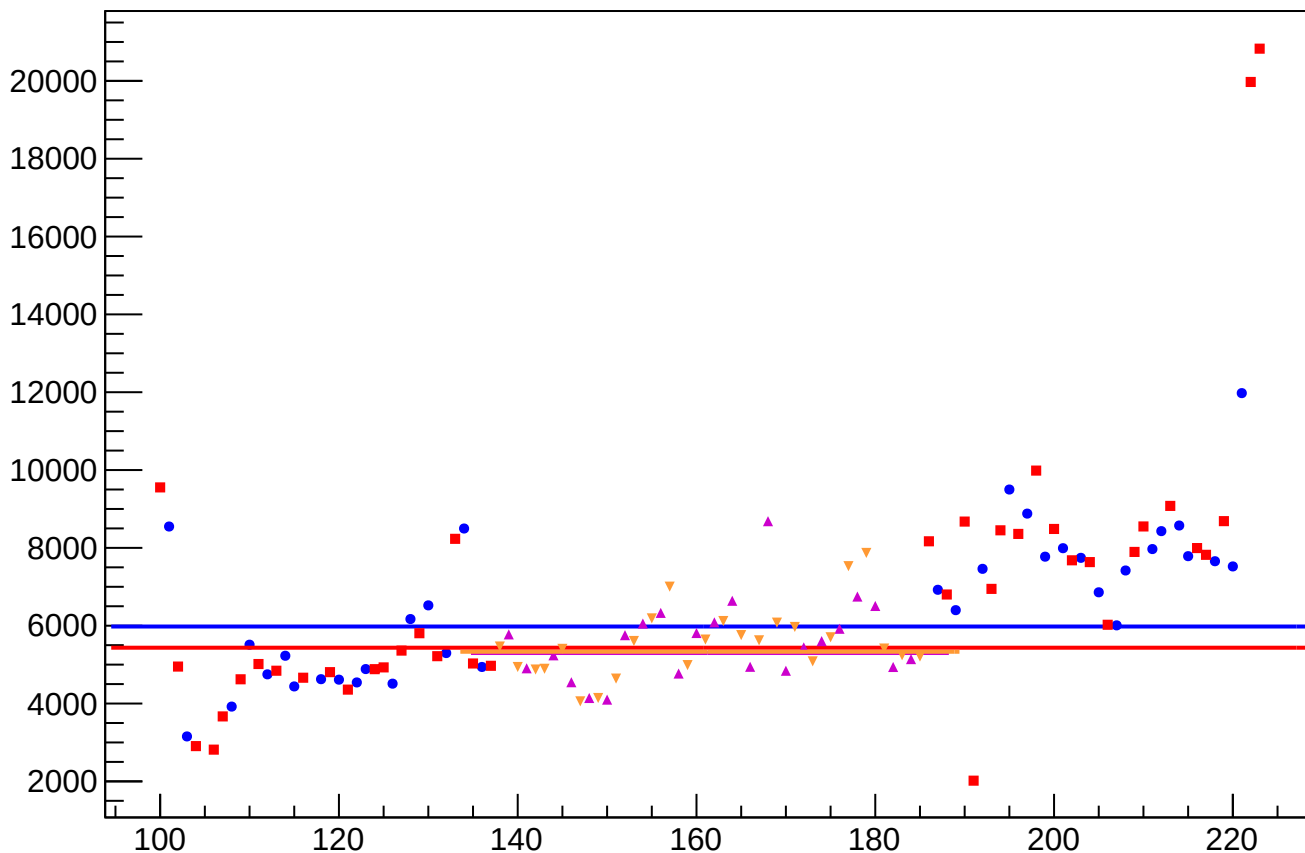
asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 1839.583 $\pm$ 1413.491 χ^2 /NDF: 37.5/34
 Left Out: 1686.531 $\pm$ 1261.650 χ^2 /NDF:25.4/24
 Right Out: 3432.517 $\pm$ 1318.287 χ^2 /NDF: 43.8/38
 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: 2691.497 $\pm$ 964.071 χ^2 /NDF: 81.9/73
 In: 2377.308 $\pm$ 952.201 χ^2 /NDF:55.8/57
 Out: 2521.213 $\pm$ 911.486 χ^2 /NDF:70.1/63
 All: 2452.403 $\pm$ 658.441 χ^2 /NDF: 125.9/121

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5979.189 ± 0.999 $\chi^2/\text{NDF}: 3530111.8/34$

Left Out: 5330.725 ± 0.892 $\chi^2/\text{NDF}: 868061.7/24$

Right Out: 5434.643 ± 0.929 $\chi^2/\text{NDF}: 6361780.2/38$

Left In: 5298.329 ± 0.911 $\chi^2/\text{NDF}: 956021.6/22$

Left: 5314.867 ± 0.637 $\chi^2/\text{NDF}: 1824728.8/47$

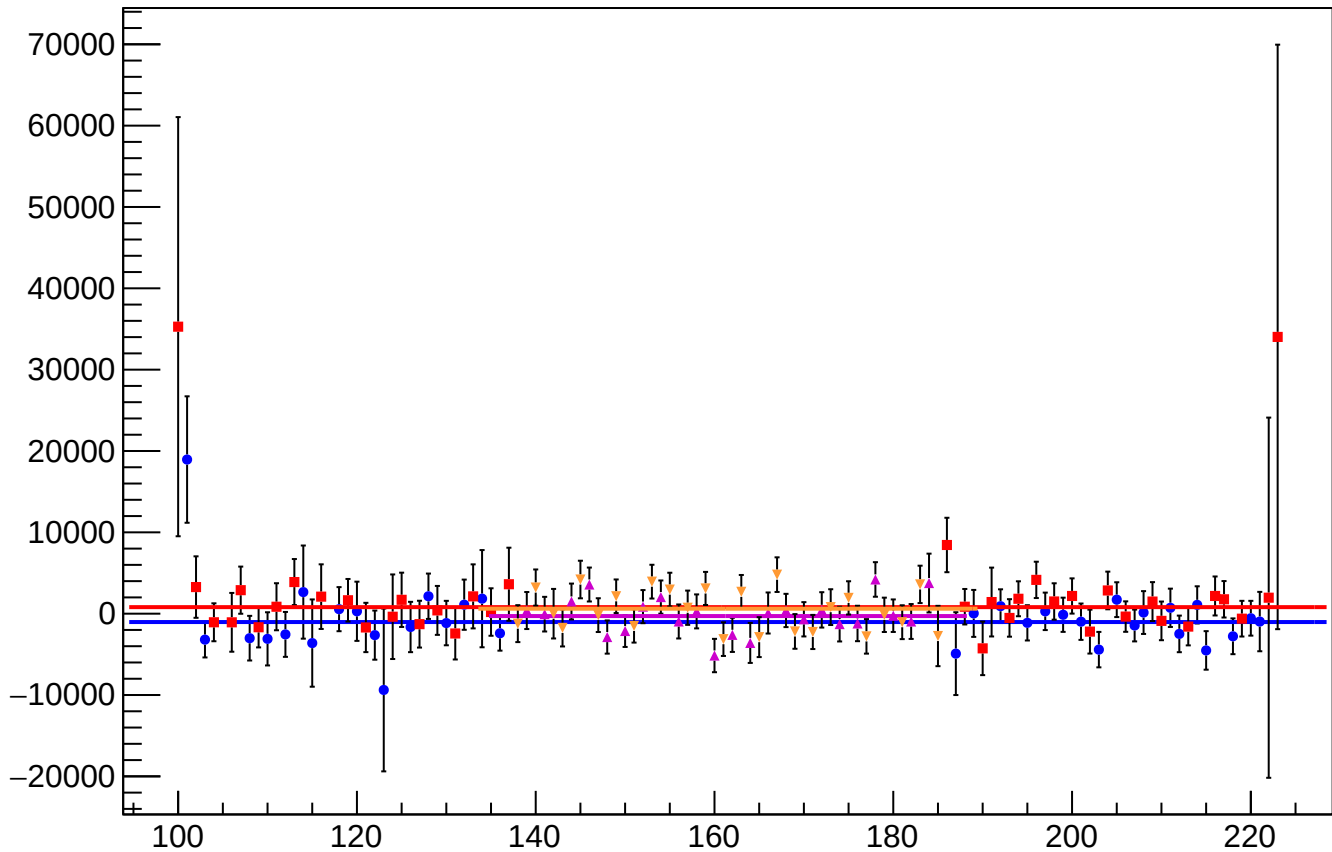
Right: 5687.043 ± 0.680 $\chi^2/\text{NDF}: 10051141.8/73$

In: 5607.308 ± 0.673 $\chi^2/\text{NDF}: 4739591.2/57$

Out: 5380.580 ± 0.643 $\chi^2/\text{NDF}: 7236351.4/63$

All: 5488.810 ± 0.465 $\chi^2/\text{NDF}: 12035207.0/100$

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1029.094 ± 447.212 $\chi^2/\text{NDF}: 24.5/34$

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

Right Out: 803.703 ± 444.444 $\chi^2/\text{NDF}: 25.7/38$

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

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

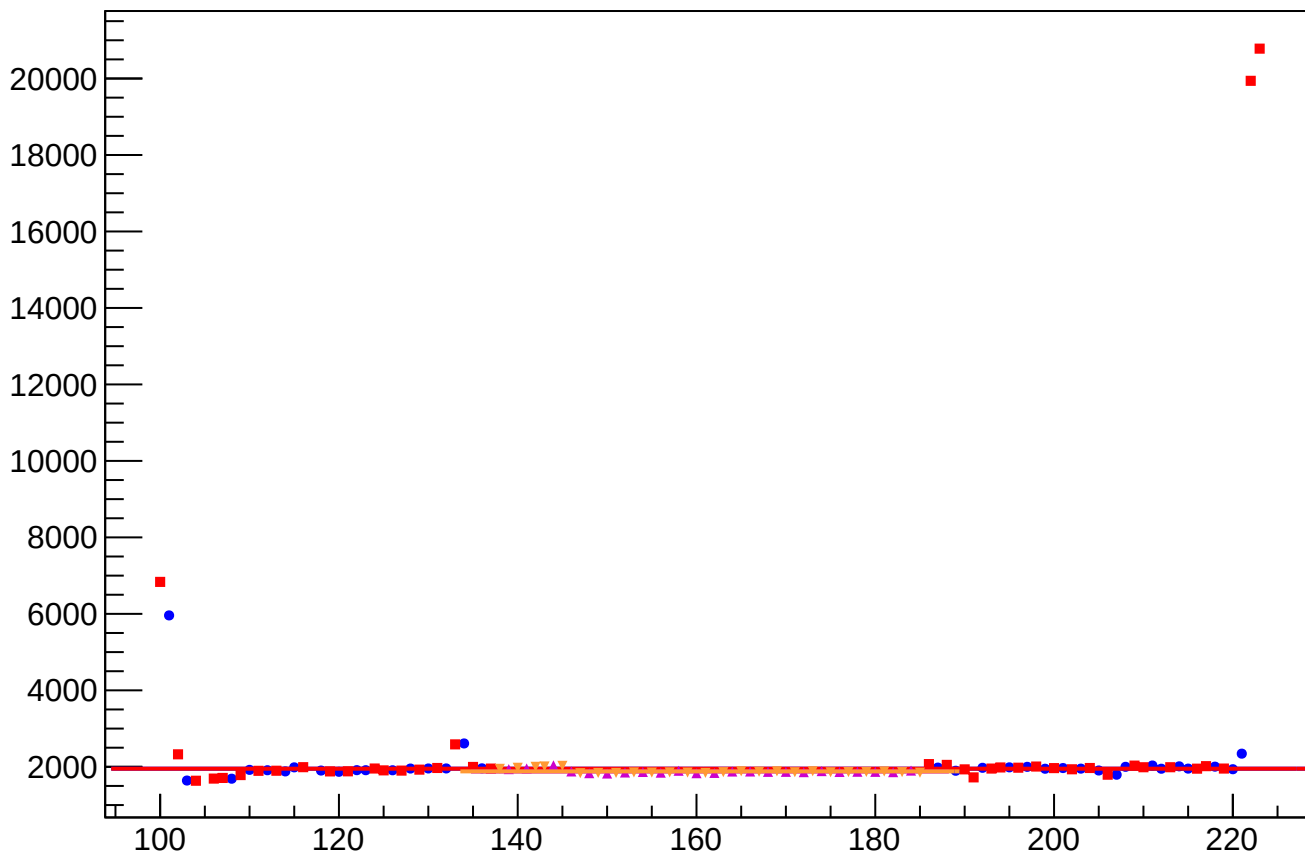
Right: -107.005 ± 315.244 $\chi^2/\text{NDF}: 58.7/73$

In: -662.991 ± 317.059 $\chi^2/\text{NDF}: 49.5/57$

Out: 706.669 ± 312.061 $\chi^2/\text{NDF}: 58.5/63$

All: 32.719 ± 222.407 $\chi^2/\text{NDF}: 117.5/121$

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1950.725+/-0.316 χ^2/NDF : 663443.5/34

Left Out: 1880.808+/-0.310 χ^2/NDF : 28655.5/24

Right Out: 1950.796+/-0.314 χ^2/NDF : 2124101.8/38

Left In: 1876.685+/-0.318 χ^2/NDF : 20499.7/22

Left: 1878.799+/-0.222 χ^2/NDF : 49241.5/47

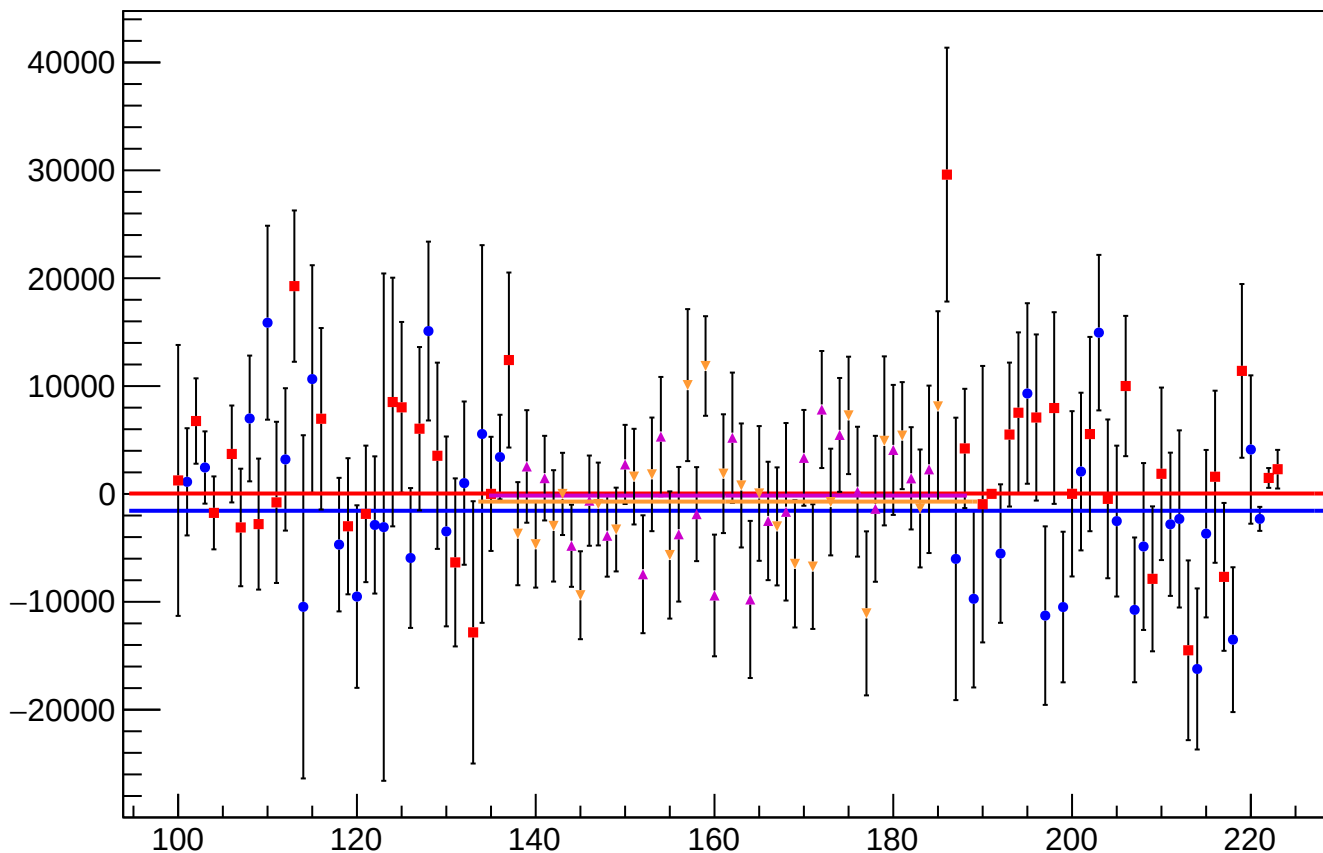
Right: 1950.761+/-0.223 χ^2/NDF : 2787545.3/73

In: 1913.900+/-0.224 χ^2/NDF : 711208.9/57

Out: 1915.341+/-0.221 χ^2/NDF : 2177923.5/63

All: 1914.633+/-0.157 χ^2/NDF : 2889153.4/12

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: -1559.570 ± 809.741 χ^2/NDF : 39.5/34

Left Out: -707.785 ± 1017.719 χ^2/NDF : 27.1/24

Right Out: 39.986 ± 85.295 χ^2/NDF : 44.3/38

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

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

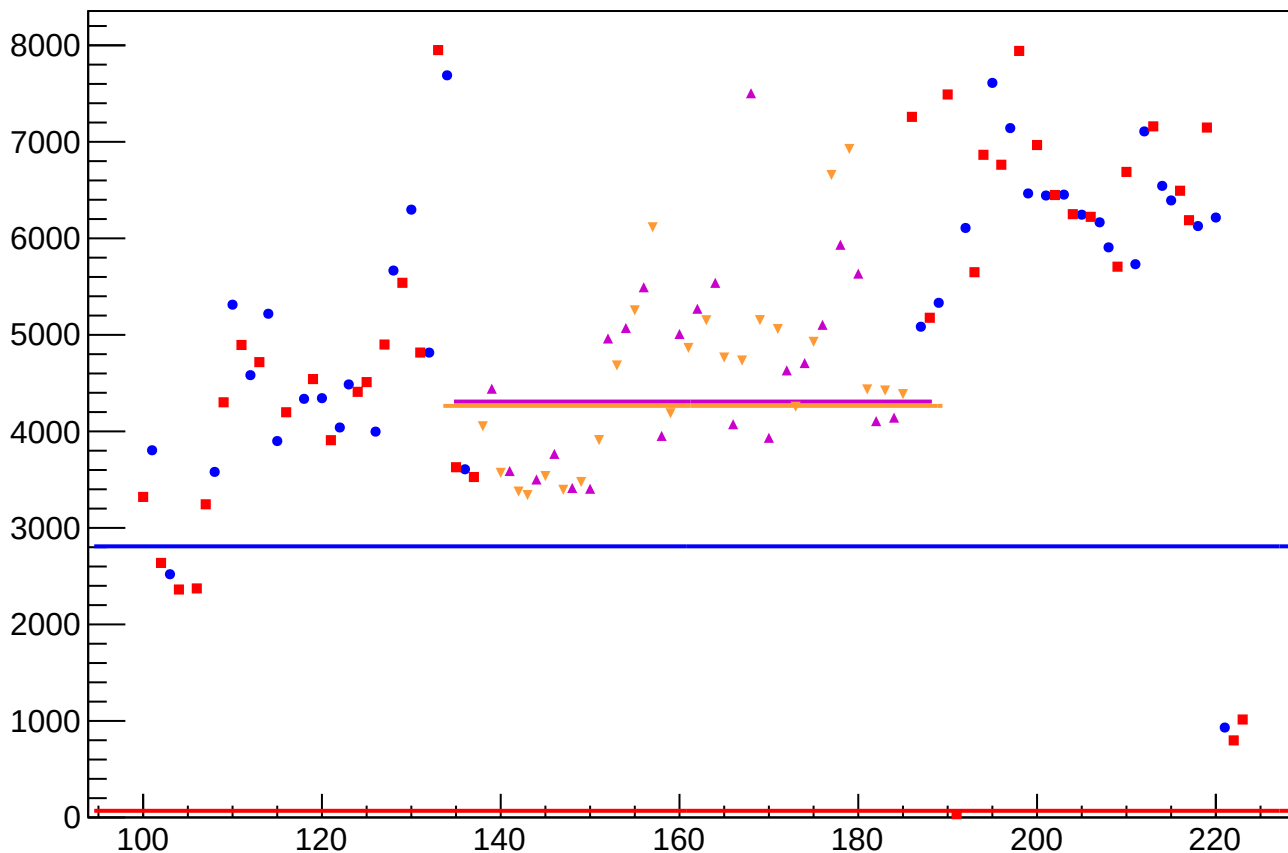
Right: 22.433 ± 84.825 χ^2/NDF : 87.6/73

In: -1036.370 ± 642.045 χ^2/NDF : 57.5/57

Out: 34.771 ± 84.997 χ^2/NDF : 71.9/63

All: 16.322 ± 84.262 χ^2/NDF : 132.2/121

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 2809.010 $\pm$ 0.573 χ^2 /NDF: 15143291.0/34

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

Right Out: 68.887 $\pm$ 0.060 χ^2 /NDF: 39312023.3/38

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

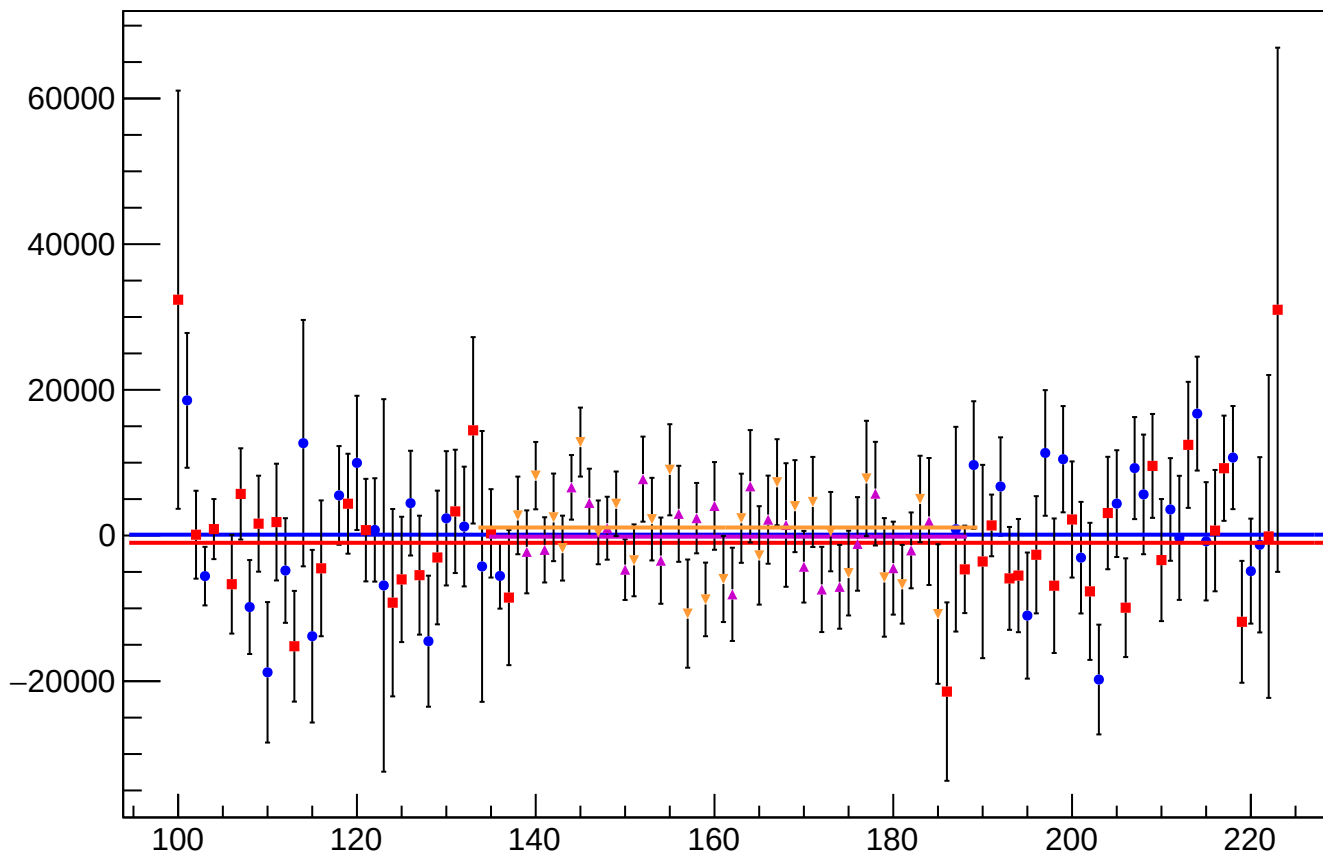
Right: 98.956 $\pm$ 0.060 χ^2 /NDF: 77106205.6/73

In: 3365.980 $\pm$ 0.454 χ^2 /NDF: 18996825.2/57

Out: 98.151 $\pm$ 0.060 χ^2 /NDF: 74419856.9/63

All: 154.435 $\pm$ 0.060 χ^2 /NDF: 144334820.1/130

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: 116.200 $\pm$ 1302.104 χ^2 /NDF: 45.8/34

Left Out: 1102.204 $\pm$ 1126.663 χ^2 /NDF: 28.6/24

Right Out: -1000.058 $\pm$ 1219.928 χ^2 /NDF: 28.2/38

Left In: -158.683 $\pm$ 1161.507 χ^2 /NDF: 15.5/22

Left: 490.957 $\pm$ 808.709 χ^2 /NDF: 44.7/47

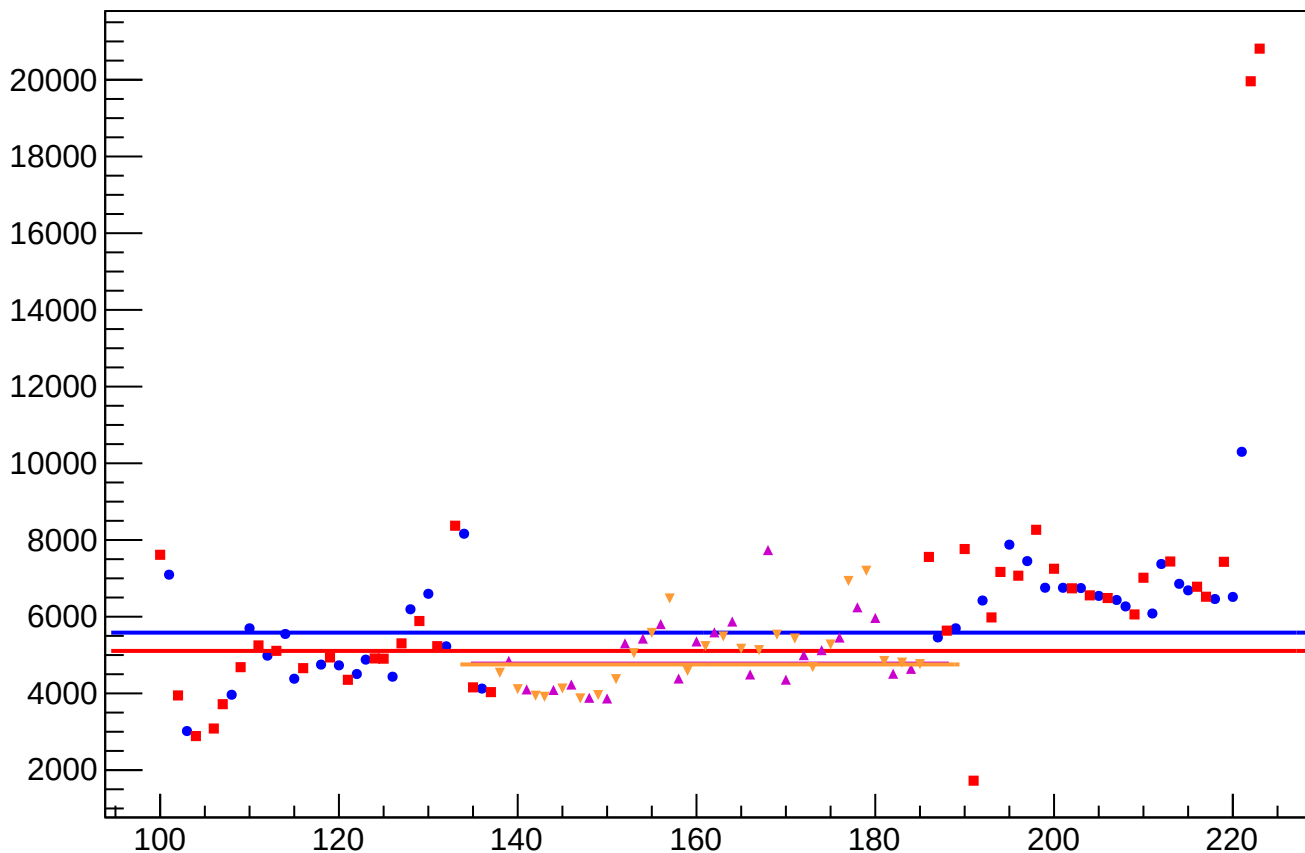
Right: -478.261 $\pm$ 890.254 χ^2 /NDF: 74.4/73

In: -36.878 $\pm$ 866.771 χ^2 /NDF: 61.4/57

Out: 134.496 $\pm$ 827.681 χ^2 /NDF: 58.3/63

All: 52.760 $\pm$ 598.601 χ^2 /NDF: 119.8/121

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5584.650 ± 0.921 $\chi^2/\text{NDF}: 2510429.4/34$

Left Out: 4755.383 ± 0.797 $\chi^2/\text{NDF}: 953328.0/24$

Right Out: 5107.780 ± 0.860 $\chi^2/\text{NDF}: 5448661.7/38$

Left In: 4777.831 ± 0.821 $\chi^2/\text{NDF}: 950291.2/22$

Left: 4766.265 ± 0.572 $\chi^2/\text{NDF}: 1904004.1/47$

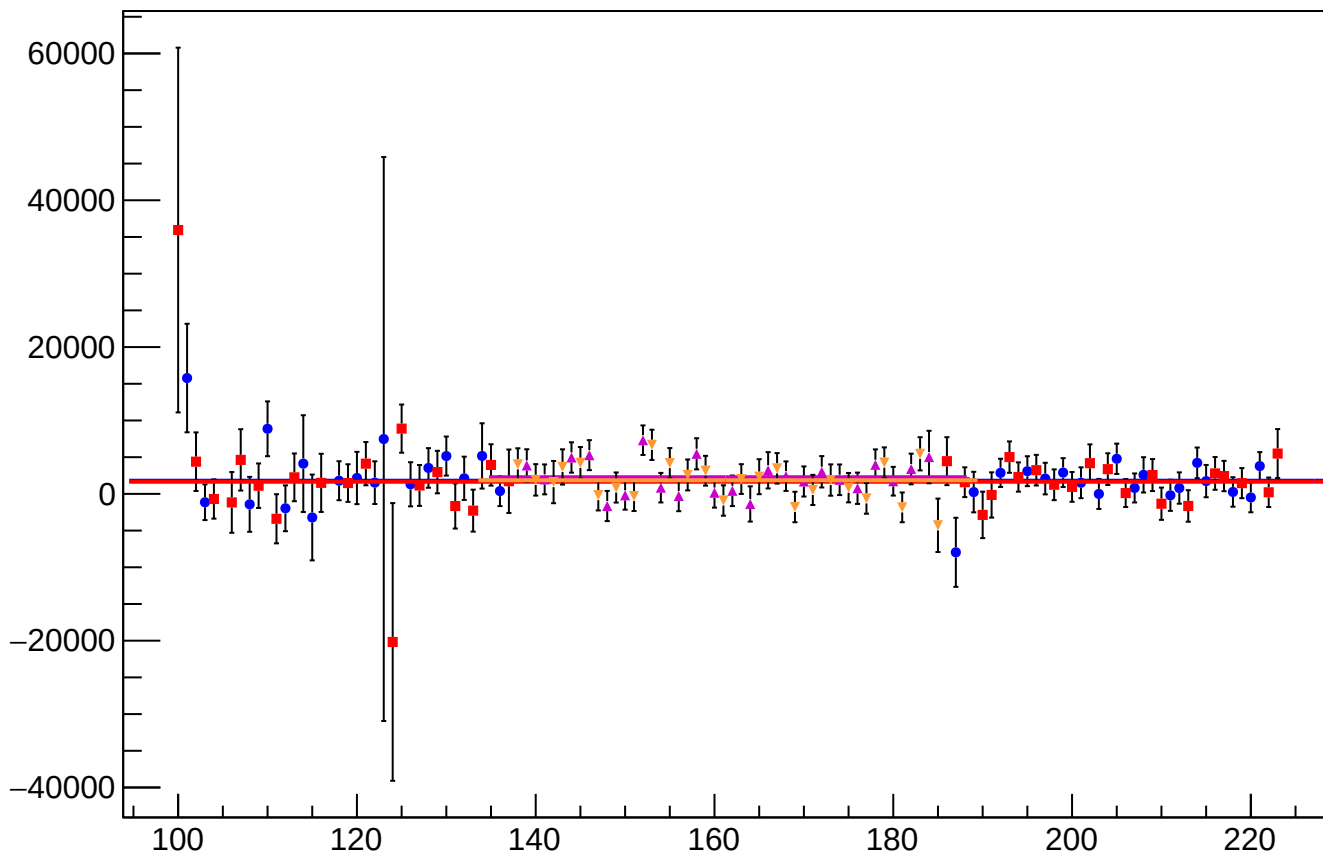
Right: 5330.004 ± 0.629 $\chi^2/\text{NDF}: 8102334.8/73$

In: 5135.345 ± 0.613 $\chi^2/\text{NDF}: 3888338.9/57$

Out: 4918.107 ± 0.584 $\chi^2/\text{NDF}: 6492338.9/63$

All: 5021.572 ± 0.423 $\chi^2/\text{NDF}: 10446473.7/13$

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1792.620+/-424.124 χ^2/NDF : 29.1/34

Left Out: 1856.570+/-430.977 χ^2/NDF :30.0/24

Right Out: 1653.409+/-419.022 χ^2/NDF : 32.6/38

Left In: 2268.464+/-441.710 χ^2/NDF :26.9/22

Left: 2057.452+/-308.471 χ^2/NDF : 57.3/47

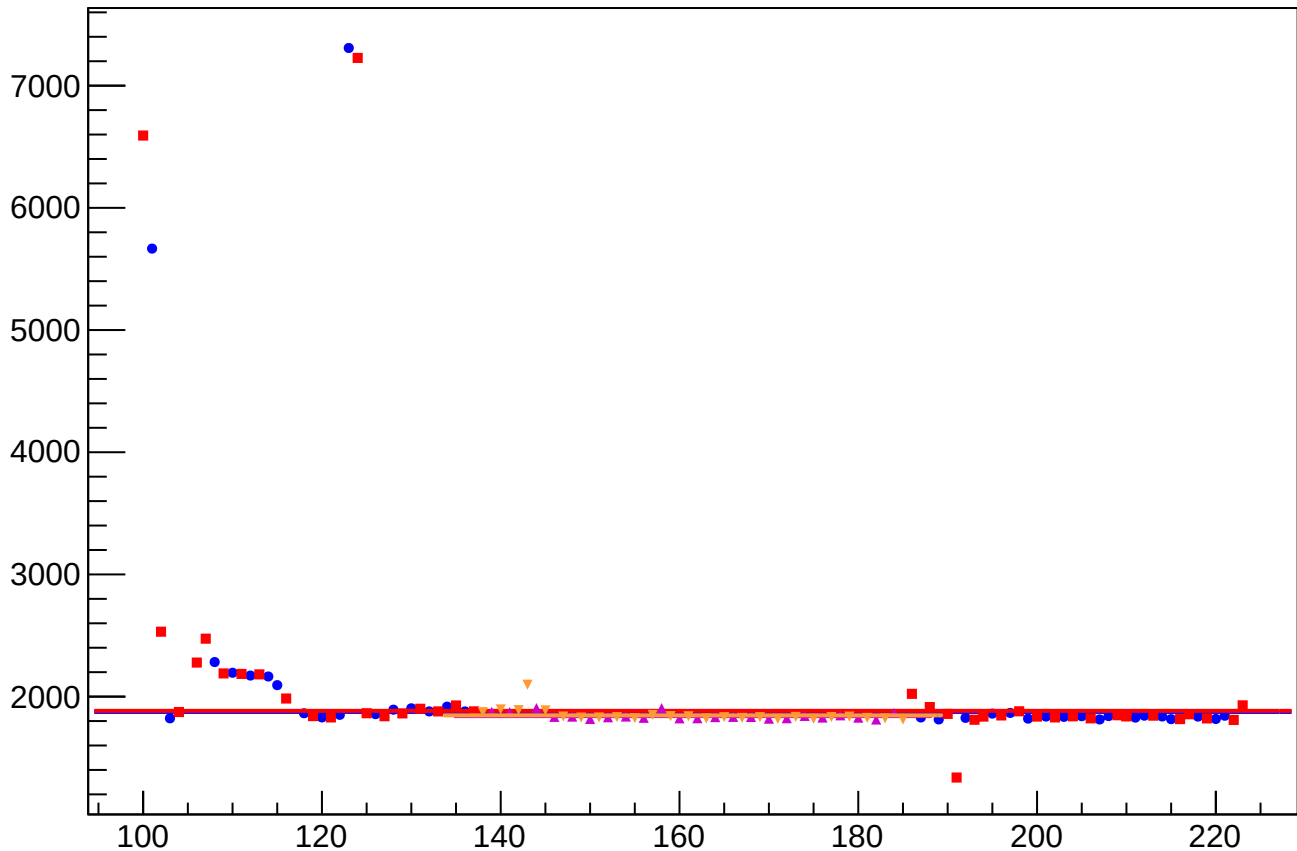
Right: 1722.172+/-298.081 χ^2/NDF : 61.8/73

In: 2020.881+/-305.929 χ^2/NDF :56.6/57

Out: 1752.133+/-300.431 χ^2/NDF :62.7/63

All: 1884.070+/-214.354 χ^2/NDF : 119.7/121

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1874.683 $\pm$ 0.300 χ^2 /NDF: 646504.8/34

Left Out: 1846.602 $\pm$ 0.305 χ^2 /NDF: 27302.8/24

Right Out: 1883.568 $\pm$ 0.296 χ^2 /NDF: 484705.6/38

Left In: 1840.541 $\pm$ 0.312 χ^2 /NDF: 6740.2/22

Left: 1843.646 $\pm$ 0.218 χ^2 /NDF: 34235.8/47

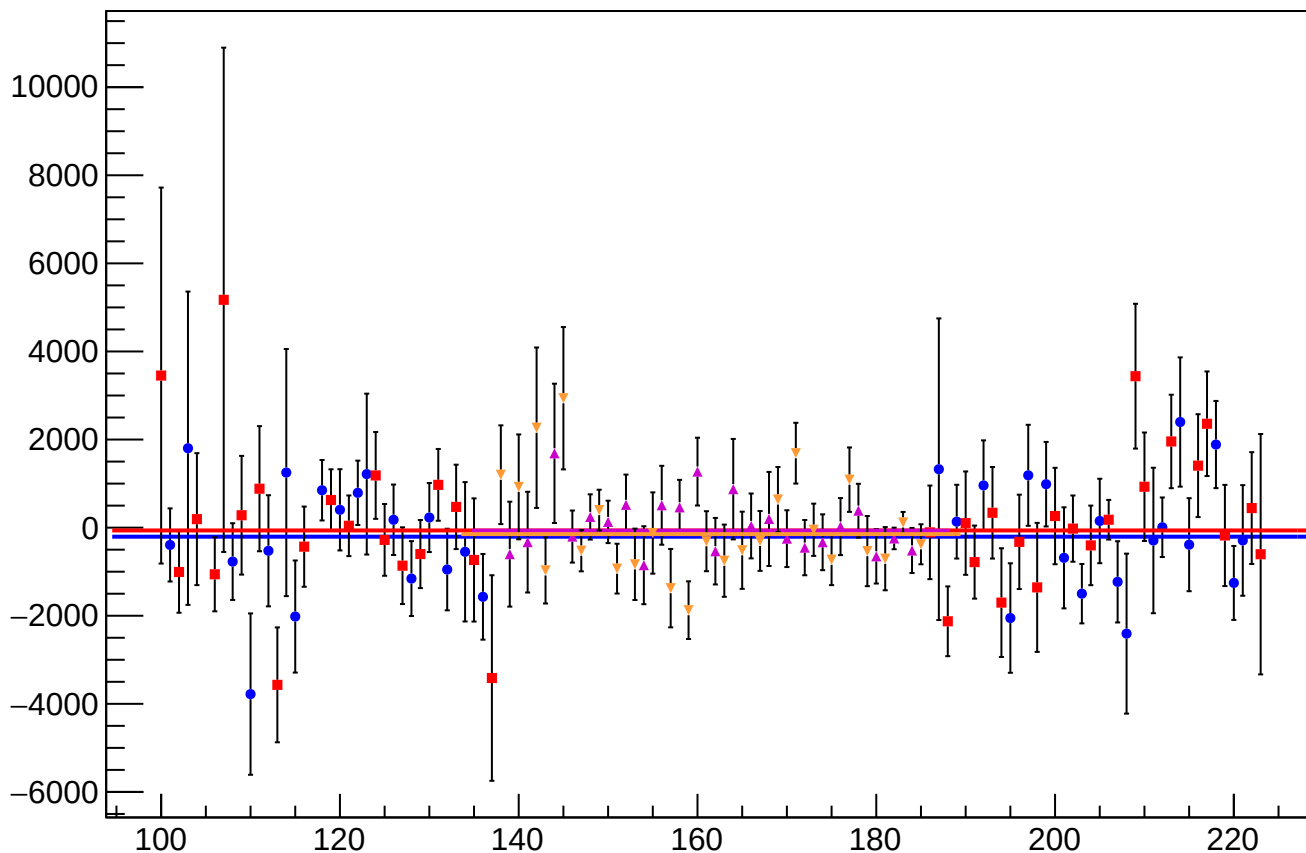
Right: 1879.179 $\pm$ 0.211 χ^2 /NDF: 1131654.4/73

In: 1858.306 $\pm$ 0.216 χ^2 /NDF: 659462.0/57

Out: 1865.605 $\pm$ 0.212 χ^2 /NDF: 519572.1/63

All: 1862.021 $\pm$ 0.152 χ^2 /NDF: 1179613.6/12

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -205.182 ± 169.849 $\chi^2/\text{NDF}: 39.6/34$

Left Out: -146.999 ± 121.984 $\chi^2/\text{NDF}: 37.7/24$

Right Out: -63.652 ± 157.798 $\chi^2/\text{NDF}: 45.7/38$

Left In: -70.340 ± 126.373 $\chi^2/\text{NDF}: 12.3/22$

Left: -110.024 ± 87.766 $\chi^2/\text{NDF}: 50.1/47$

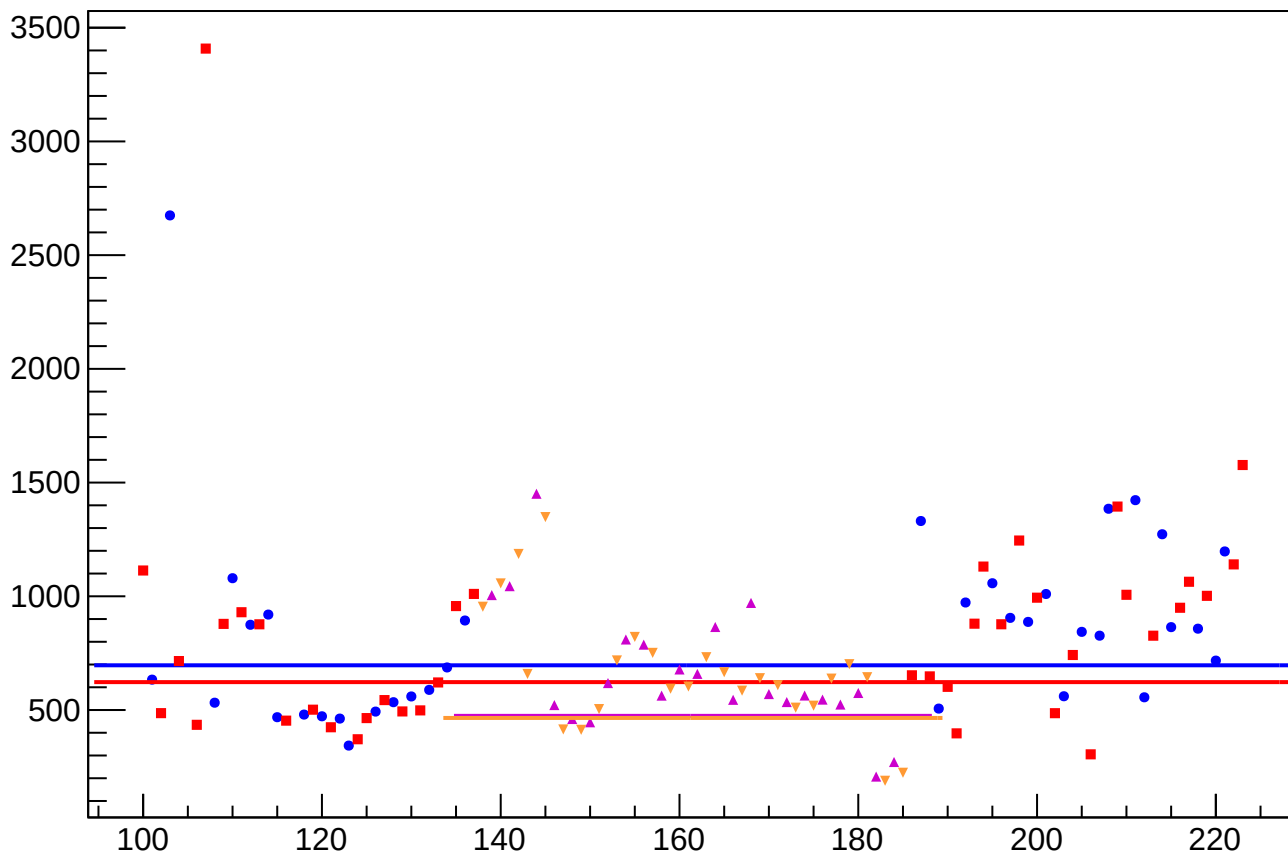
Right: -129.219 ± 115.606 $\chi^2/\text{NDF}: 85.7/73$

In: -118.388 ± 101.388 $\chi^2/\text{NDF}: 52.3/57$

Out: -115.822 ± 96.510 $\chi^2/\text{NDF}: 83.5/63$

All: -117.042 ± 69.904 $\chi^2/\text{NDF}: 135.8/121$

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 696.604 $\pm$ 0.120 χ^2 /NDF: 4317166.0/34

Left Out: 465.080 $\pm$ 0.086 χ^2 /NDF: 7086137.6/24

Right Out: 622.634 $\pm$ 0.112 χ^2 /NDF: 6033424.2/38

Left In: 474.263 $\pm$ 0.089 χ^2 /NDF: 6173100.1/22

Left: 469.509 $\pm$ 0.062 χ^2 /NDF: 13264703.6/47

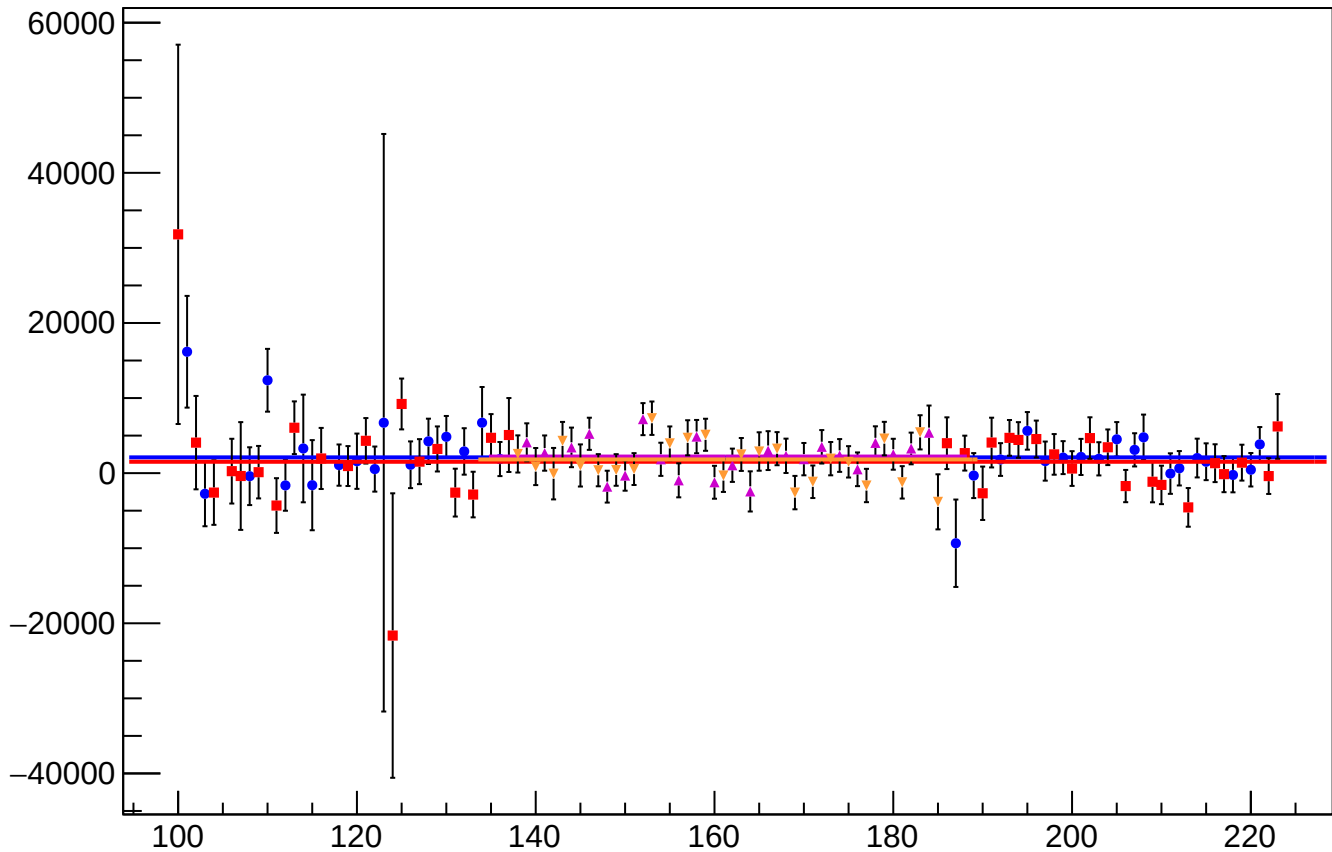
Right: 656.902 $\pm$ 0.082 χ^2 /NDF: 10554190.2/73

In: 553.489 $\pm$ 0.072 χ^2 /NDF: 12696285.9/57

Out: 524.014 $\pm$ 0.068 χ^2 /NDF: 14367564.0/63

All: 538.025 $\pm$ 0.049 χ^2 /NDF: 27152526.3/12

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2100.745+/-482.181 χ^2/NDF : 27.8/34

Left Out: 1824.066+/-462.694 χ^2/NDF : 32.1/24

Right Out: 1514.603+/-479.789 χ^2/NDF : 42.6/38

Left In: 2208.114+/-474.050 χ^2/NDF : 25.3/22

Left: 2011.435+/-331.116 χ^2/NDF : 57.8/47

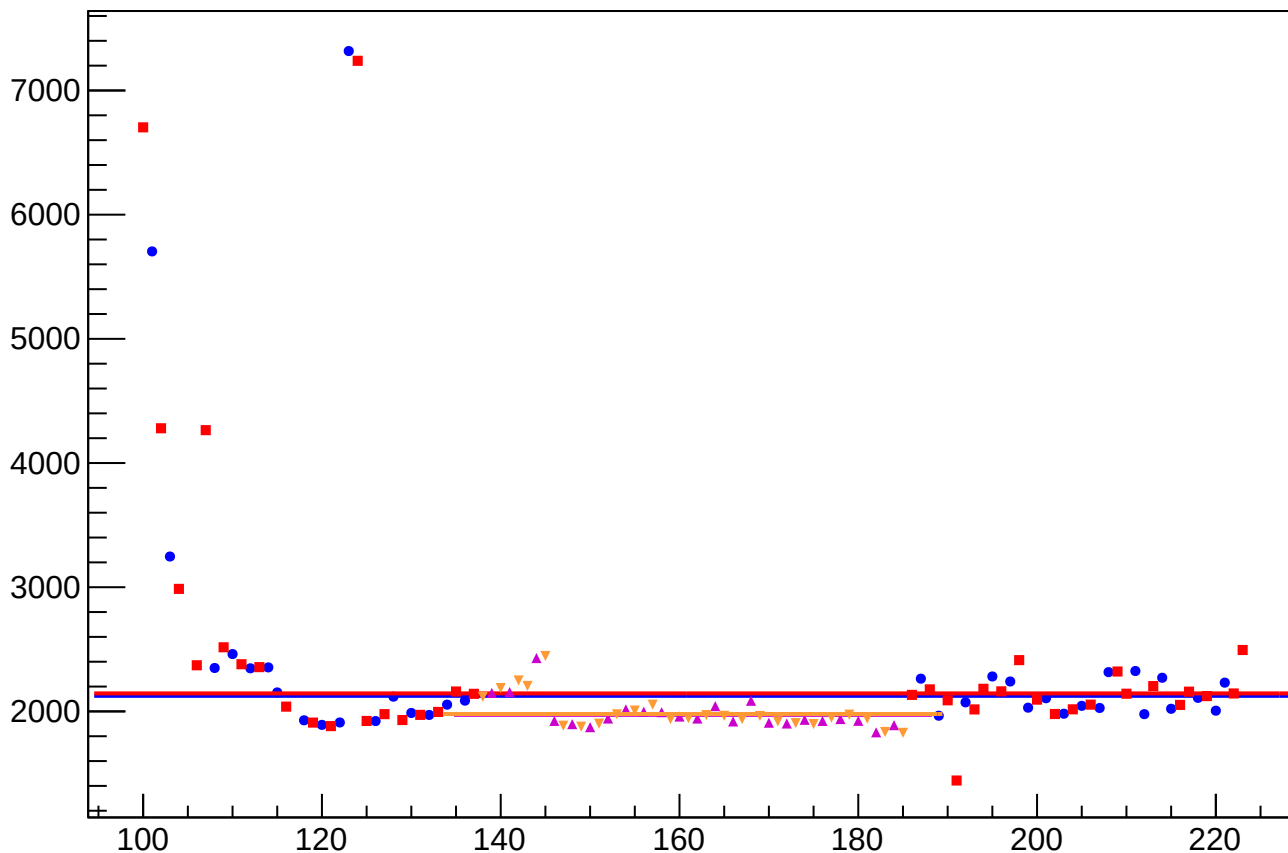
Right: 1806.217+/-340.105 χ^2/NDF : 71.1/73

In: 2155.342+/-338.042 χ^2/NDF : 53.2/57

Out: 1674.946+/-333.054 χ^2/NDF : 74.9/63

All: 1911.573+/-237.248 χ^2/NDF : 129.1/121

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2125.431 $\pm$ 0.341 χ^2 /NDF: 797851.8/34

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

Right Out: 2144.913 $\pm$ 0.339 χ^2 /NDF: 967703.3/38

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

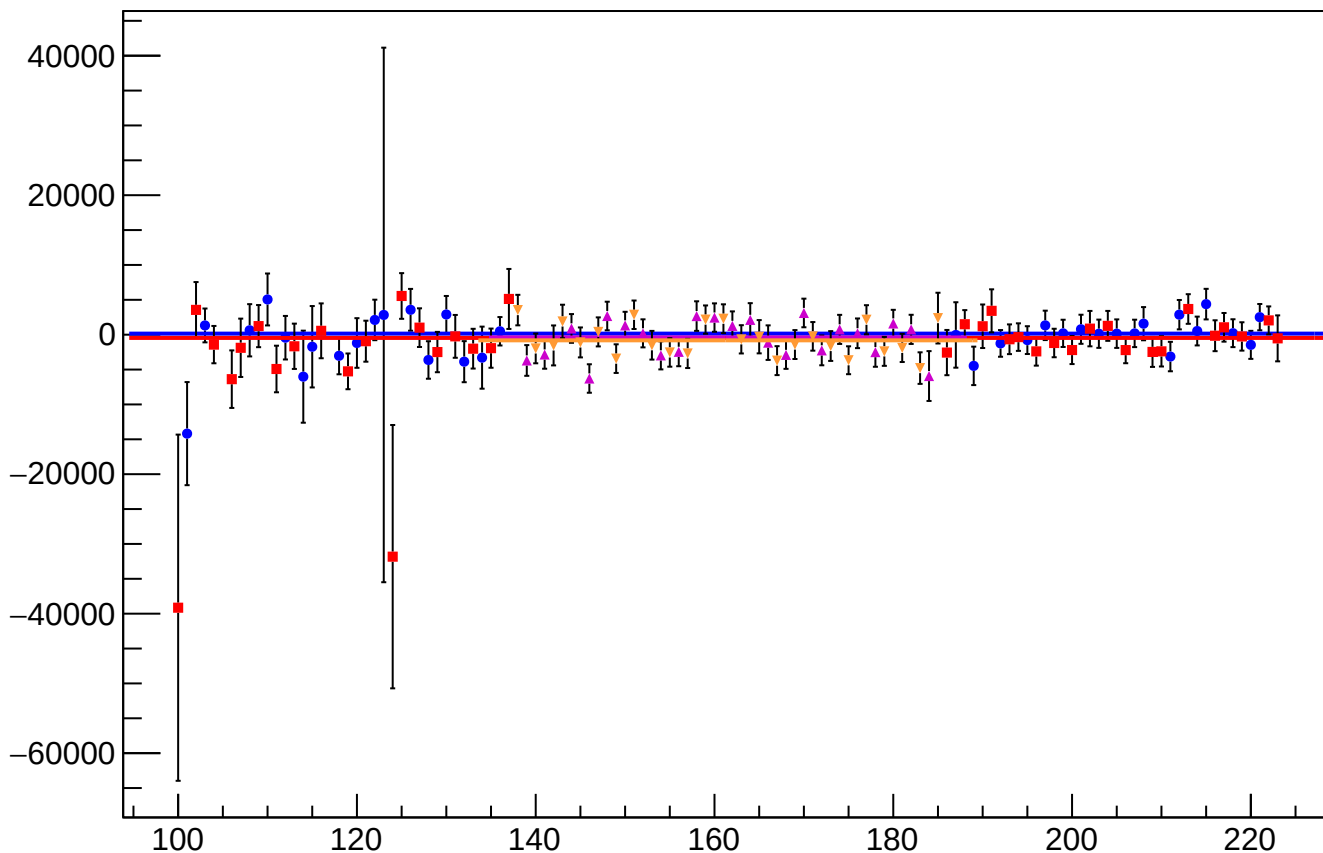
Right: 2135.221 $\pm$ 0.240 χ^2 /NDF: 1767195.6/73

In: 2047.496 $\pm$ 0.239 χ^2 /NDF: 1017056.0/57

Out: 2058.947 $\pm$ 0.236 χ^2 /NDF: 1230924.0/63

All: 2053.306 $\pm$ 0.168 χ^2 /NDF: 2249144.6/12

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: 152.154 $\pm$ 421.231 χ^2 /NDF: 30.0/34

Left Out: -808.436 $\pm$ 430.304 χ^2 /NDF:27.9/24

Right Out: -464.196 $\pm$ 415.921 χ^2 /NDF: 35.1/38

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

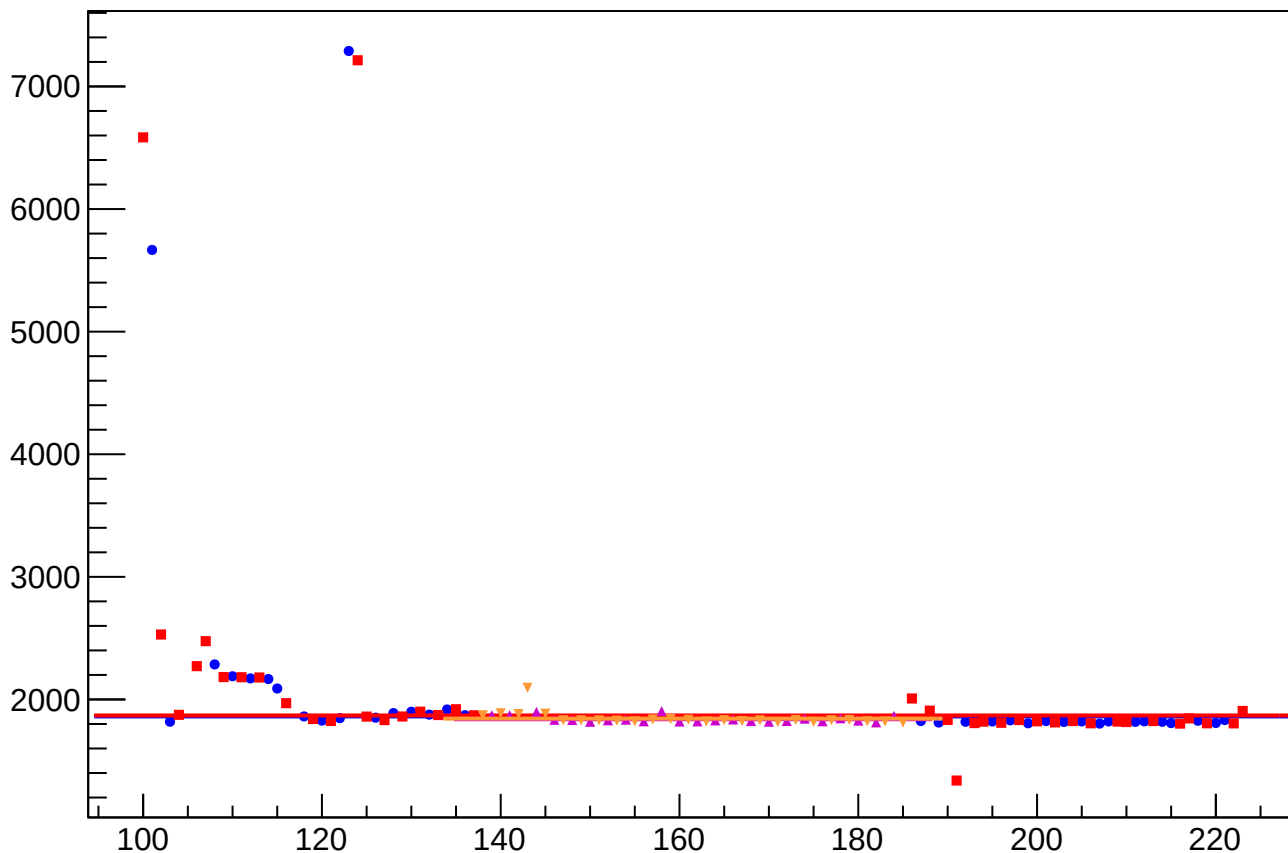
Right: -159.930 $\pm$ 295.960 χ^2 /NDF: 66.3/73

In: -110.543 $\pm$ 304.685 χ^2 /NDF:65.2/57

Out: -630.467 $\pm$ 299.056 χ^2 /NDF:63.4/63

All: -375.352 $\pm$ 213.427 χ^2 /NDF: 130.1/121

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1861.710+/-0.298 χ^2/NDF : 656069.3/34

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1869.466+/-0.294 χ^2/NDF : 492825.2/38

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

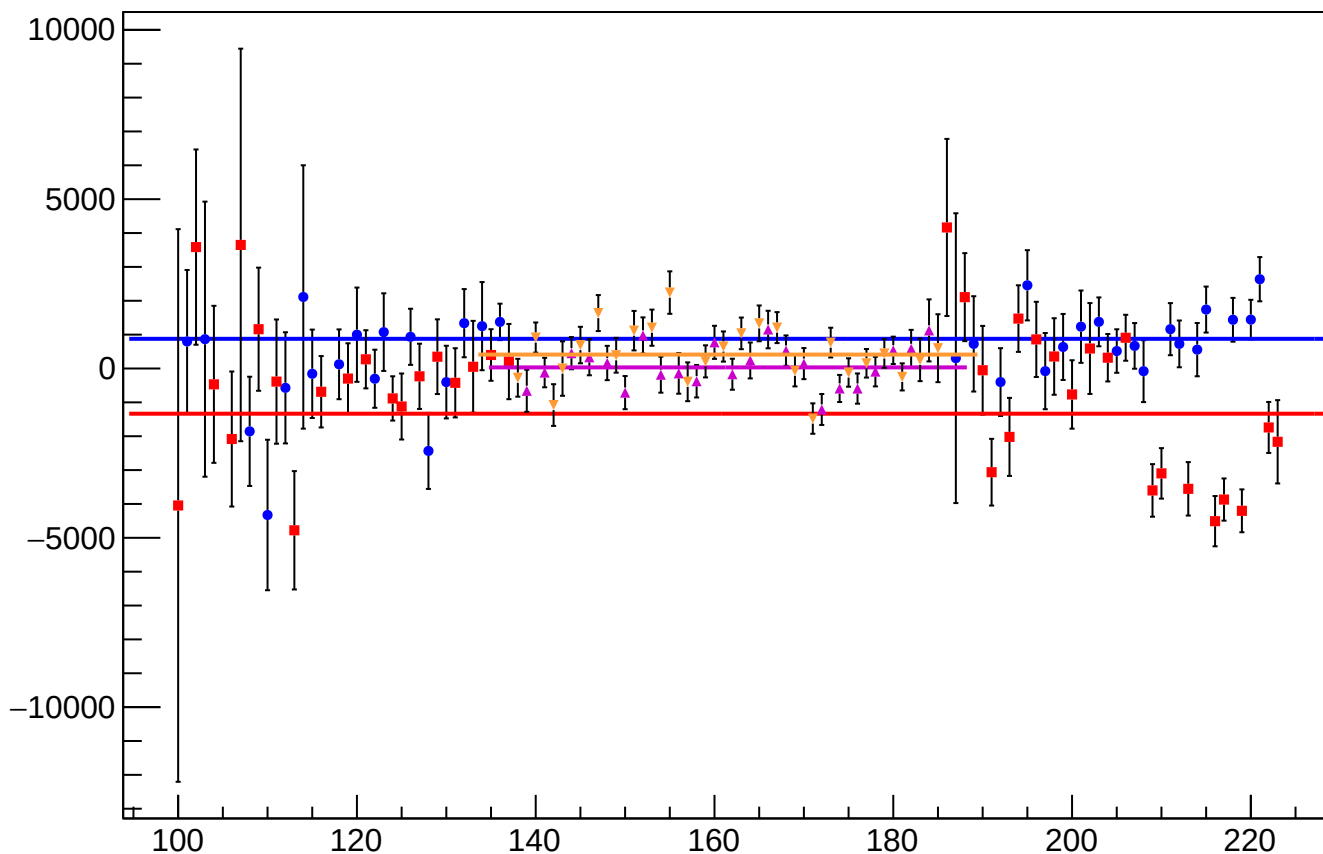
Right: 1865.637+/-0.209 χ^2/NDF : 1149237.9/73

In: 1850.696+/-0.215 χ^2/NDF : 665271.9/57

Out: 1857.044+/-0.211 χ^2/NDF : 523386.6/63

All: 1853.929+/-0.151 χ^2/NDF : 1189100.5/12

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 876.389 ± 154.664 χ^2/NDF : 41.4/34

Left Out: 411.072 ± 100.456 χ^2/NDF : 61.2/24

Right Out: -1334.962 ± 158.327 χ^2/NDF : 155.2/38

Left In: 32.456 ± 102.403 χ^2/NDF : 32.7/22

Left: 225.398 ± 71.712 χ^2/NDF : 100.9/47

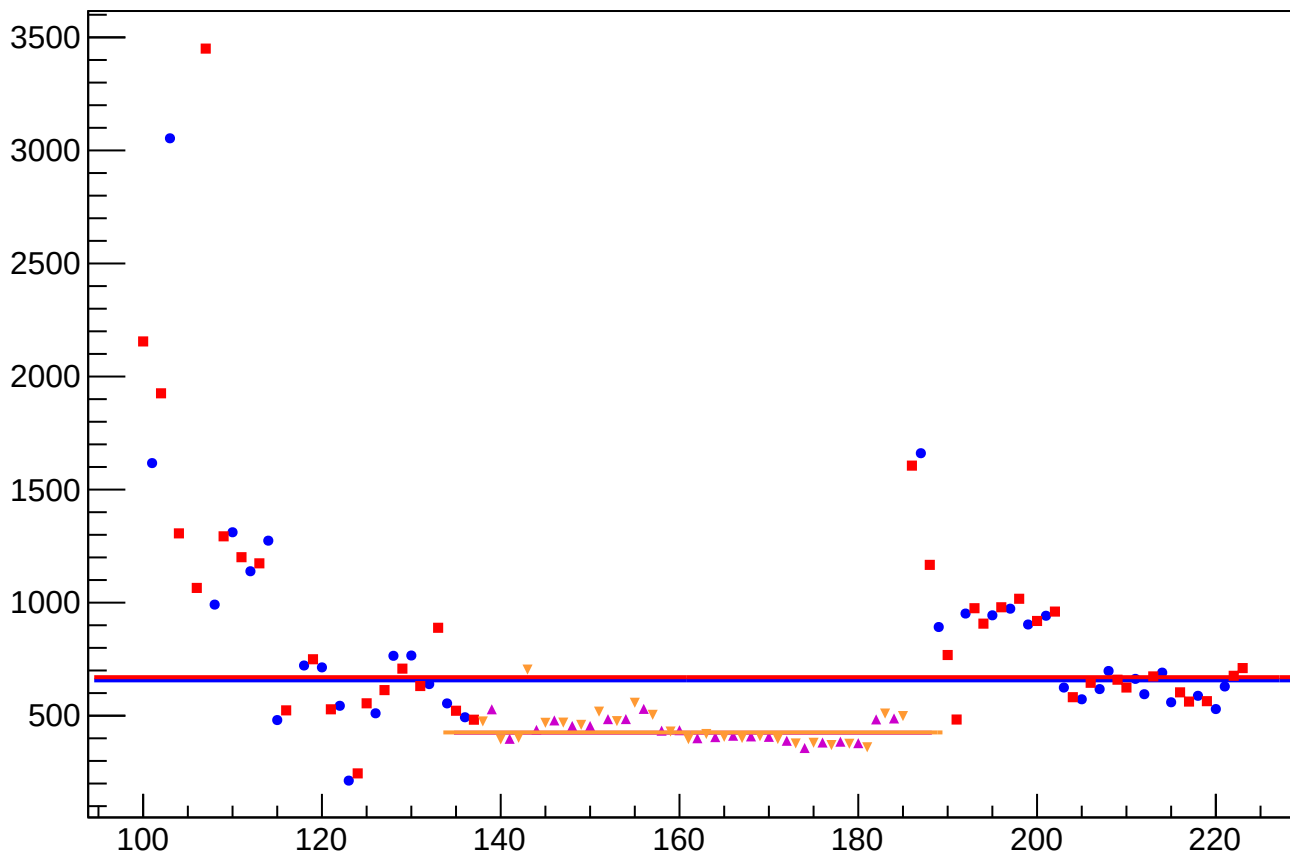
Right: -203.412 ± 110.636 χ^2/NDF : 296.4/73

In: 289.663 ± 85.384 χ^2/NDF : 94.8/57

Out: -90.081 ± 84.823 χ^2/NDF : 303.1/63

All: 98.539 ± 60.176 χ^2/NDF : 407.8/121

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 656.299 $\pm$ 0.109 χ^2 /NDF: 3428515.3/34

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF: 733072.9/24

Right Out: 670.357 $\pm$ 0.112 χ^2 /NDF: 4504232.3/38

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

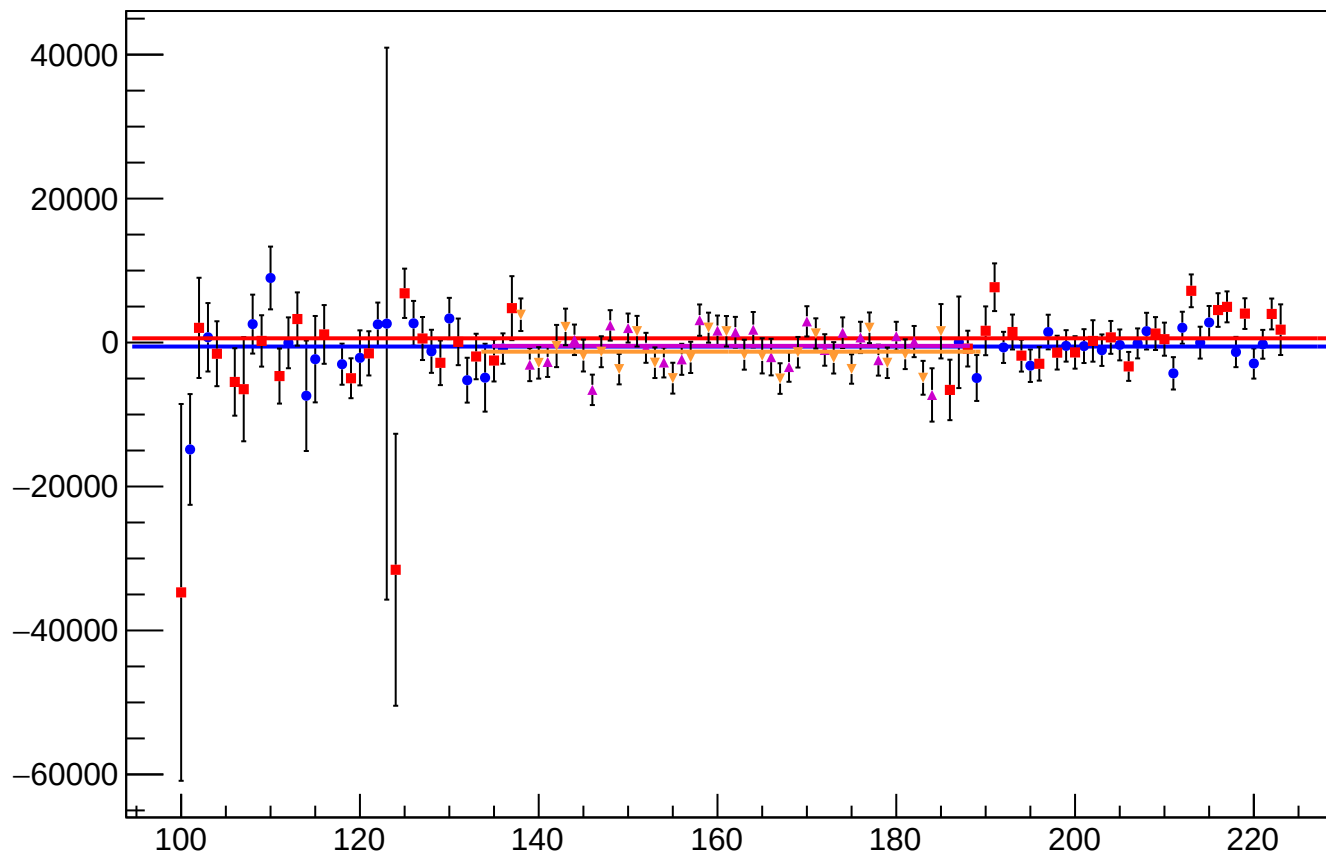
Right: 663.164 $\pm$ 0.078 χ^2 /NDF: 7940816.4/73

In: 495.242 $\pm$ 0.060 χ^2 /NDF: 6939593.6/57

Out: 496.156 $\pm$ 0.060 χ^2 /NDF: 8633158.1/63

All: 495.702 $\pm$ 0.043 χ^2 /NDF: 15572867.0/120

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -555.242+/-460.646 χ^2/NDF : 30.3/34

Left Out: -1267.885+/-443.219 χ^2/NDF : 30.8/24

Right Out: 588.723+/-461.135 χ^2/NDF : 59.2/38

Left In: -462.599+/-453.947 χ^2/NDF : 32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

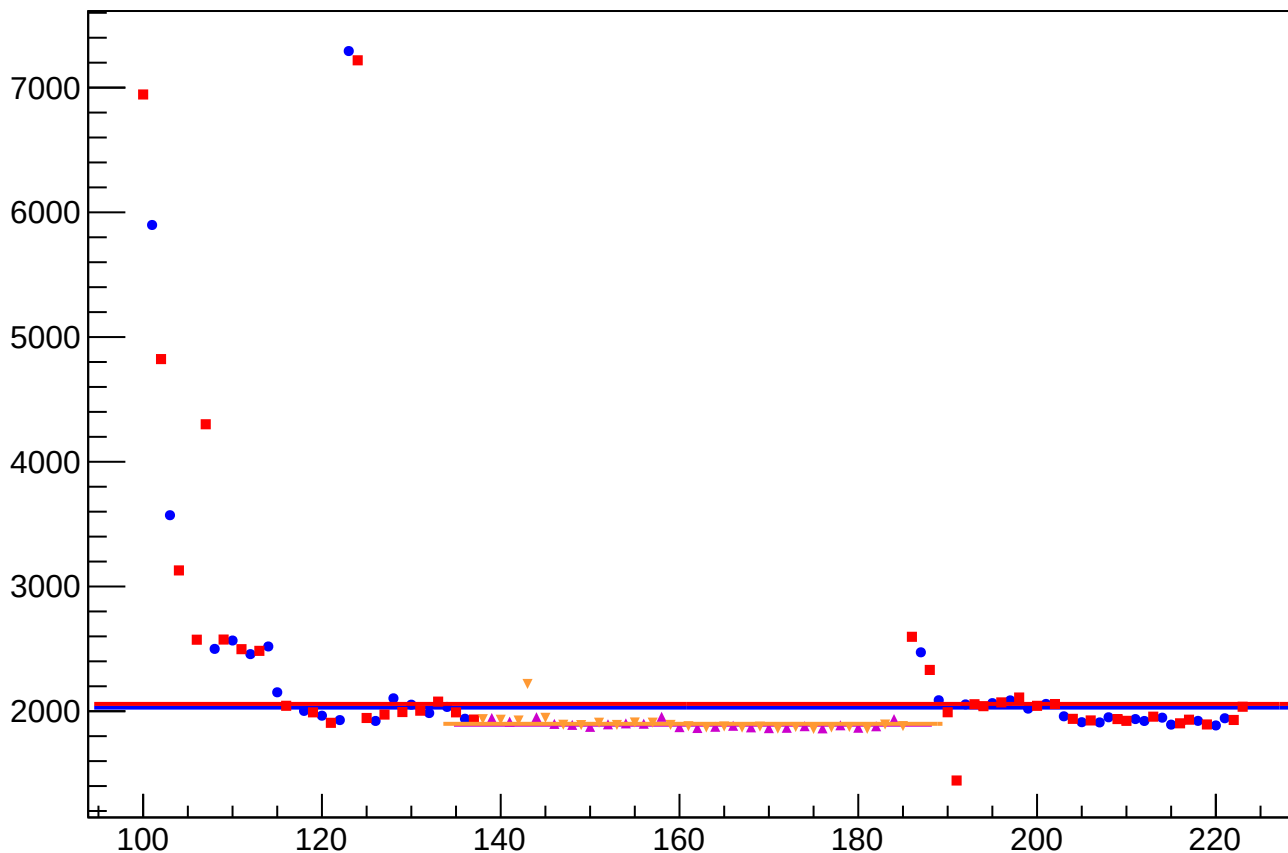
Right: 16.134+/-325.899 χ^2/NDF : 92.5/73

In: -508.242+/-323.331 χ^2/NDF : 62.9/57

Out: -376.348+/-319.549 χ^2/NDF : 98.4/63

All: -441.519+/-227.281 χ^2/NDF : 161.4/121

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2029.030 ± 0.326 χ^2/NDF : 924957.2/34

Left Out: 1898.962 ± 0.313 χ^2/NDF : 38680.4/24

Right Out: 2058.663 ± 0.326 χ^2/NDF : 1165417.8/38

Left In: 1891.693 ± 0.321 χ^2/NDF : 7420.7/22

Left: 1895.414 ± 0.224 χ^2/NDF : 46363.6/47

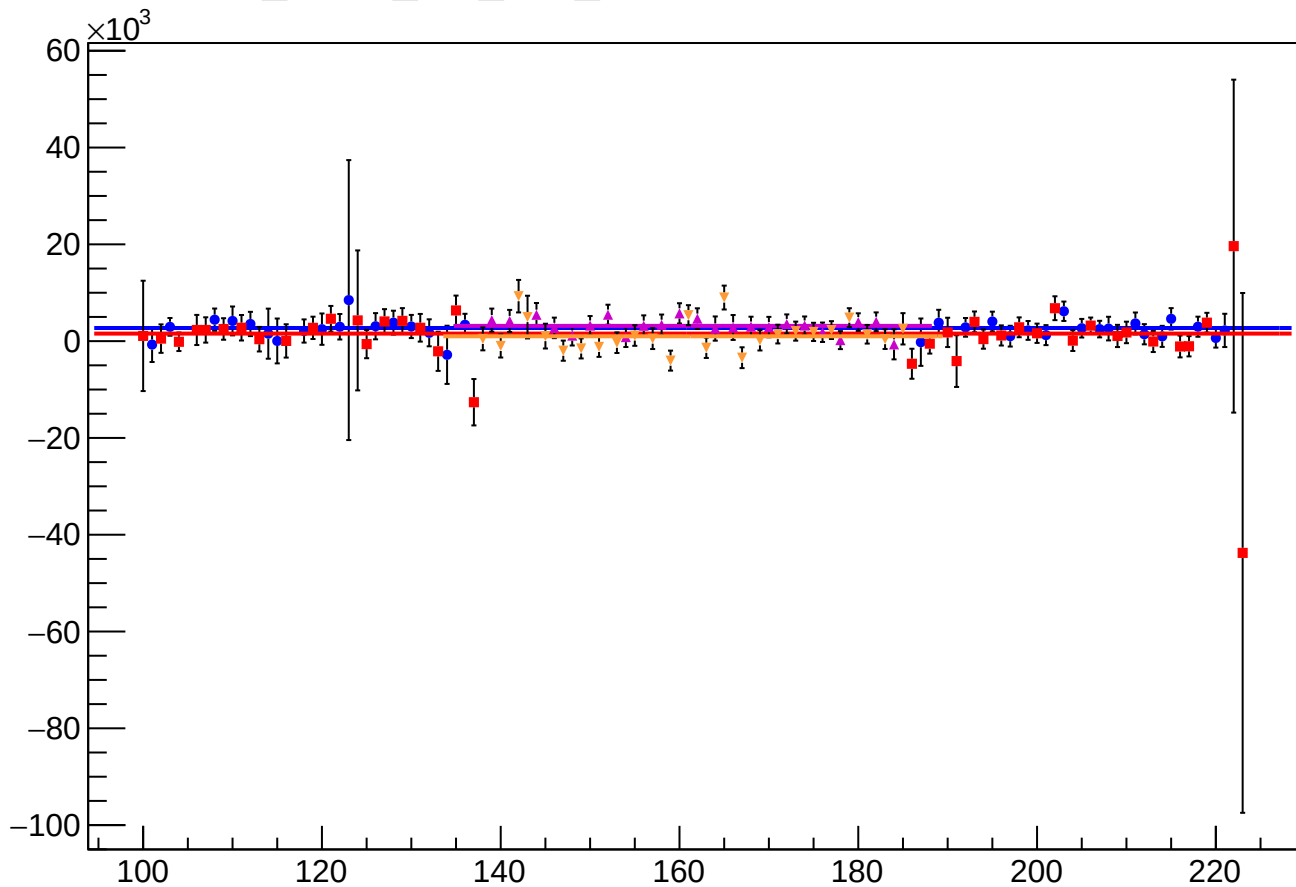
Right: 2043.831 ± 0.230 χ^2/NDF : 2094508.7/73

In: 1959.356 ± 0.229 χ^2/NDF : 1022568.2/57

Out: 1975.650 ± 0.226 χ^2/NDF : 1328787.5/63

All: 1967.598 ± 0.161 χ^2/NDF : 2353925.2/12

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2715.851 $\pm$ 408.162 χ^2 /NDF: 11.8/34

Left Out: 1001.263 $\pm$ 435.247 χ^2 /NDF: 44.6/24

Right Out: 1557.105 $\pm$ 408.115 χ^2 /NDF: 38.2/38

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

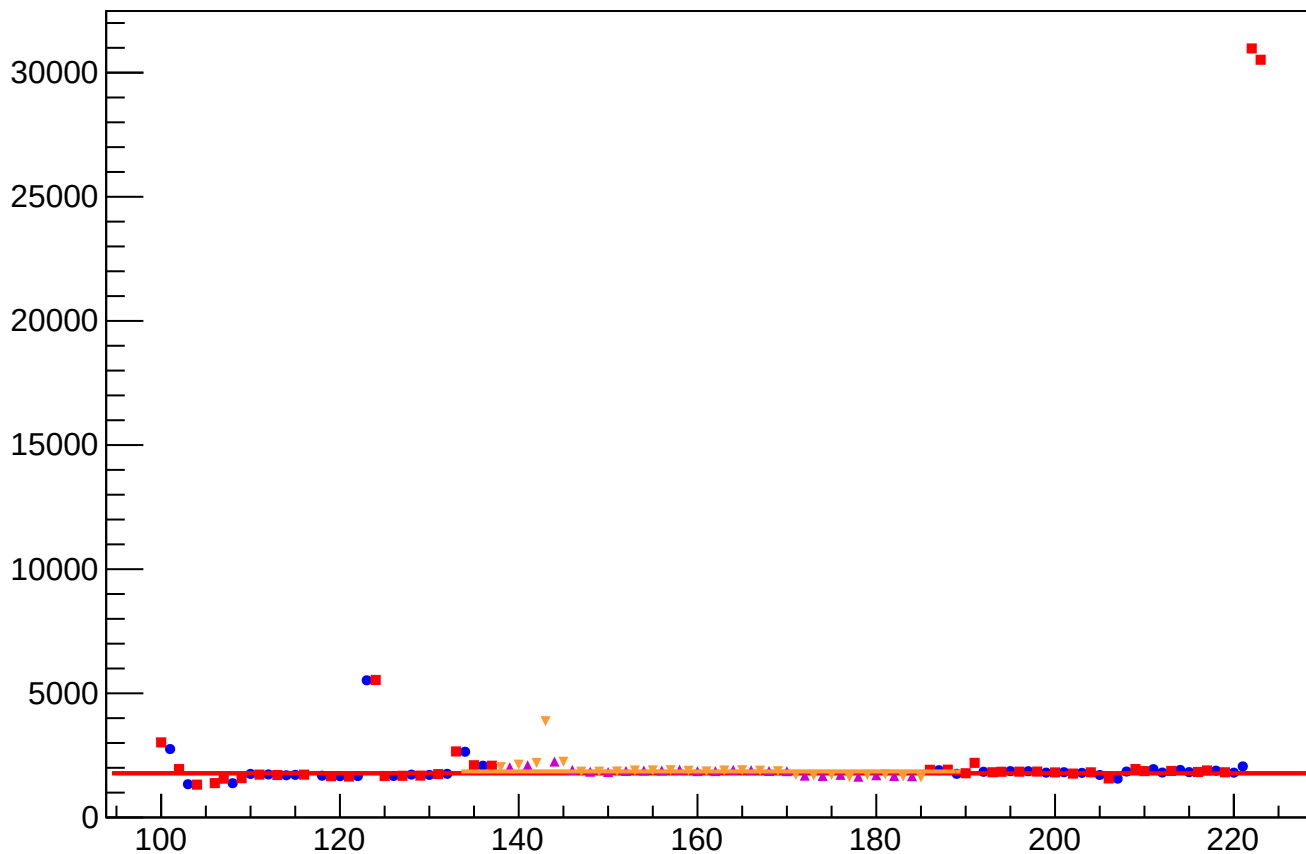
Right: 2136.411 $\pm$ 288.598 χ^2 /NDF: 54.0/73

In: 2916.292 $\pm$ 299.597 χ^2 /NDF: 24.2/57

Out: 1297.047 $\pm$ 297.711 χ^2 /NDF: 83.7/63

All: 2101.558 $\pm$ 211.177 χ^2 /NDF: 122.5/121

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1777.235+/-0.289 χ^2/NDF : 536902.7/34

Left Out: 1851.959+/-0.308 χ^2/NDF : 648954.2/24

Right Out: 1781.053+/-0.289 χ^2/NDF : 2594503.3/38

Left In: 1837.151+/-0.312 χ^2/NDF : 200514.0/22

Left: 1844.654+/-0.219 χ^2/NDF : 850610.1/47

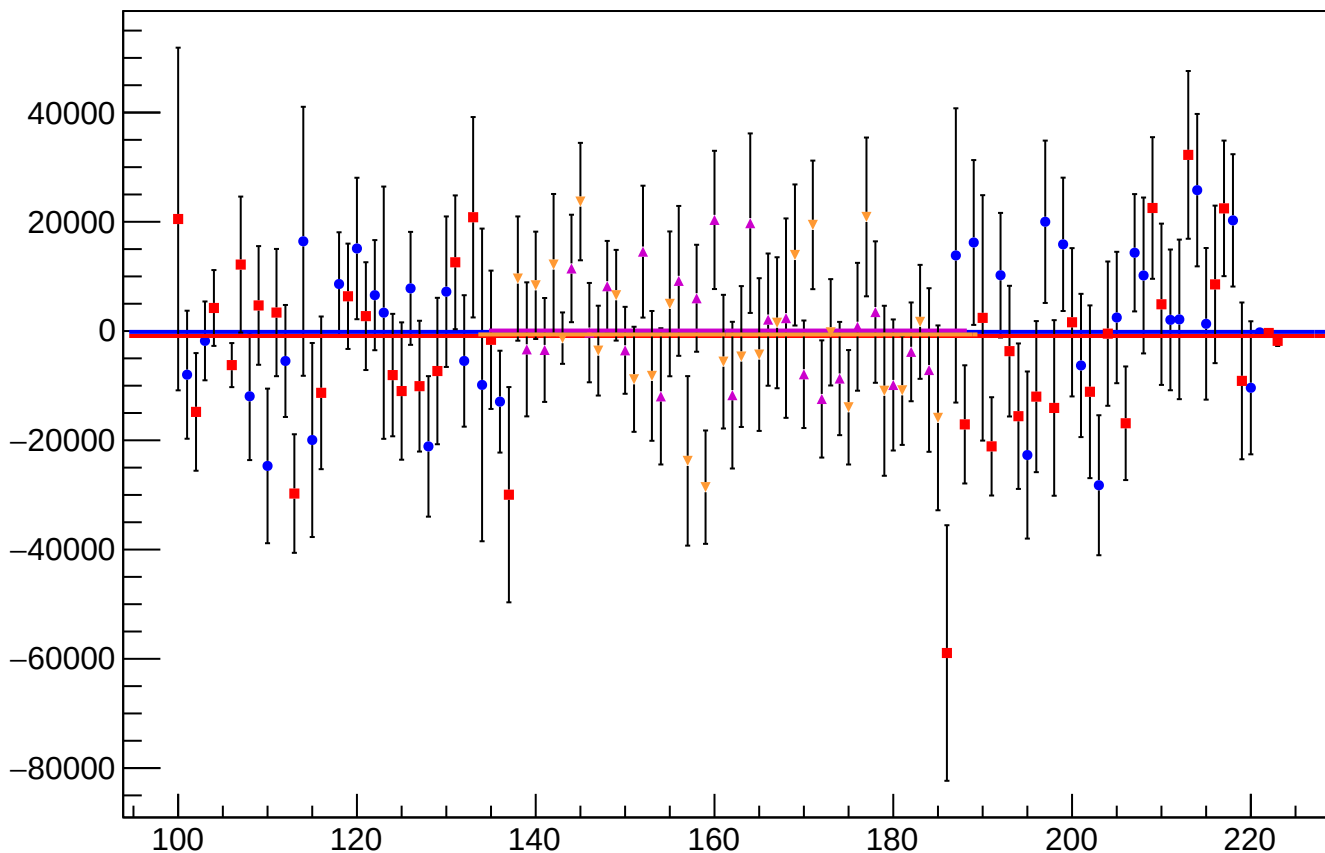
Right: 1779.144+/-0.204 χ^2/NDF : 3131493.6/73

In: 1804.869+/-0.212 χ^2/NDF : 757294.0/57

Out: 1814.227+/-0.211 χ^2/NDF : 3271703.0/63

All: 1809.578+/-0.149 χ^2/NDF : 4029978.6/12

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -151.620+/-704.509 χ^2/NDF : 37.4/34

Left Out: -619.372+/-2069.686 χ^2/NDF :30.1/24

Right Out: -906.871+/-455.903 χ^2/NDF : 54.1/38

Left In: 93.334+/-2293.826 χ^2/NDF :14.6/22

Left: -299.532+/-1536.638 χ^2/NDF : 44.8/47

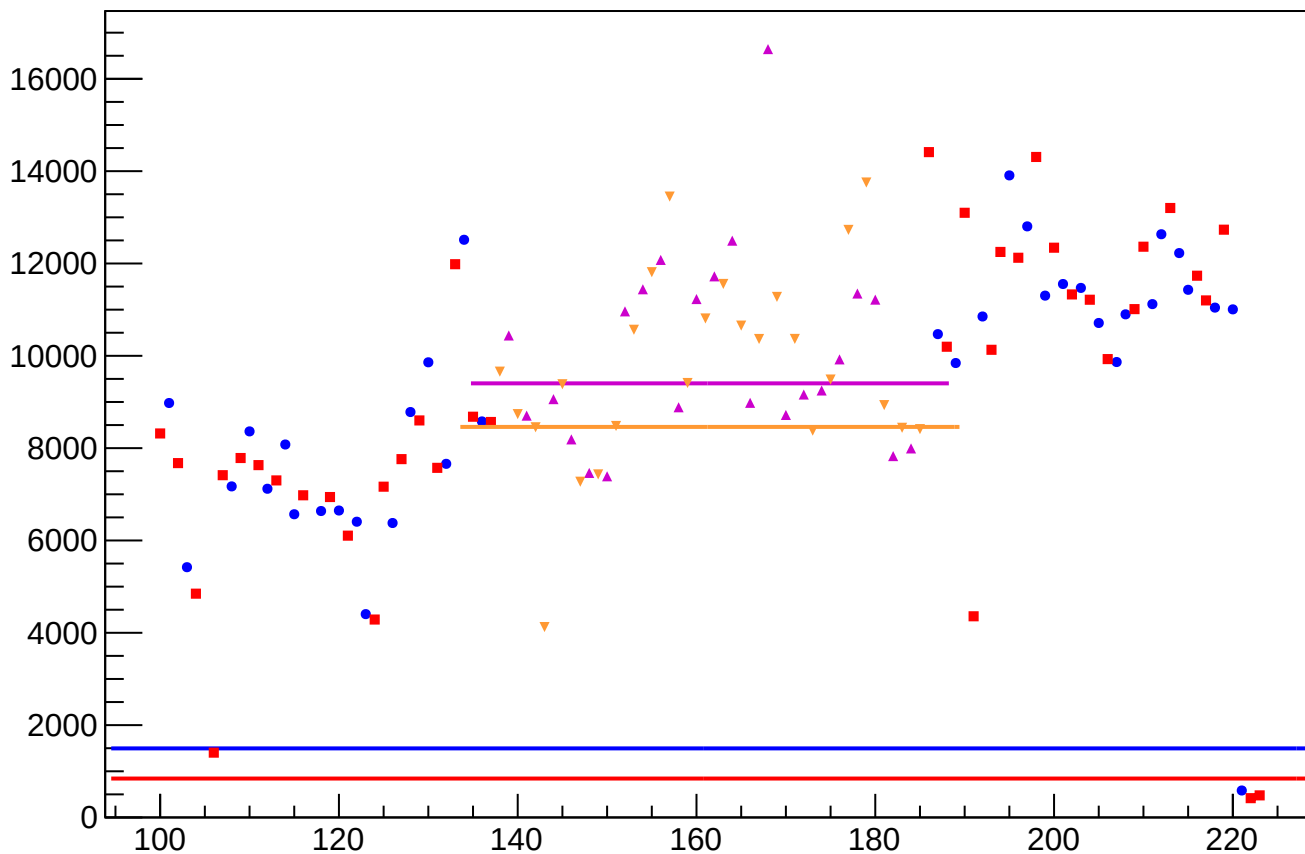
Right: -683.950+/-382.752 χ^2/NDF : 92.3/73

In: -130.505+/-673.461 χ^2/NDF :52.1/57

Out: -893.567+/-445.229 χ^2/NDF :84.2/63

All: -661.493+/-371.403 χ^2/NDF : 137.2/121

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 1496.003+/-0.498

χ^2/NDF : 30004122.6/34

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

Right: 1035.682+/-0.271 χ^2/NDF : 64534639.0/73

Left Out: 8459.960+/-1.463

χ^2/NDF : 3087200.5/24

In: 2177.622+/-0.476 χ^2/NDF : 52865610.9/57

Right Out: 842.915+/-0.322

χ^2/NDF : 33319114.0/38

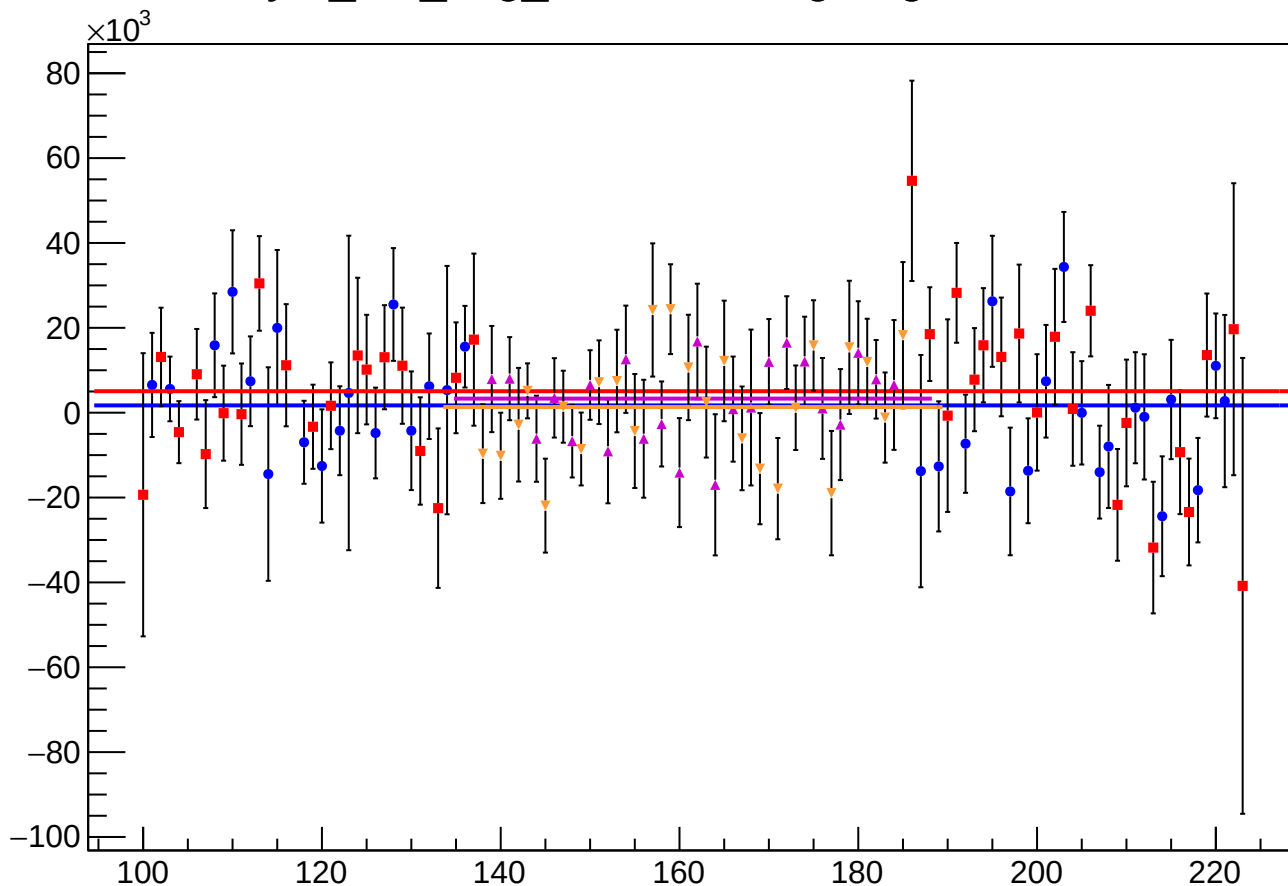
Out: 1195.403+/-0.315 χ^2/NDF : 62241802.1/63

Left In: 9403.481+/-1.622

χ^2/NDF : 1142646.9/22

All: 1494.131+/-0.263 χ^2/NDF : 118067783.9

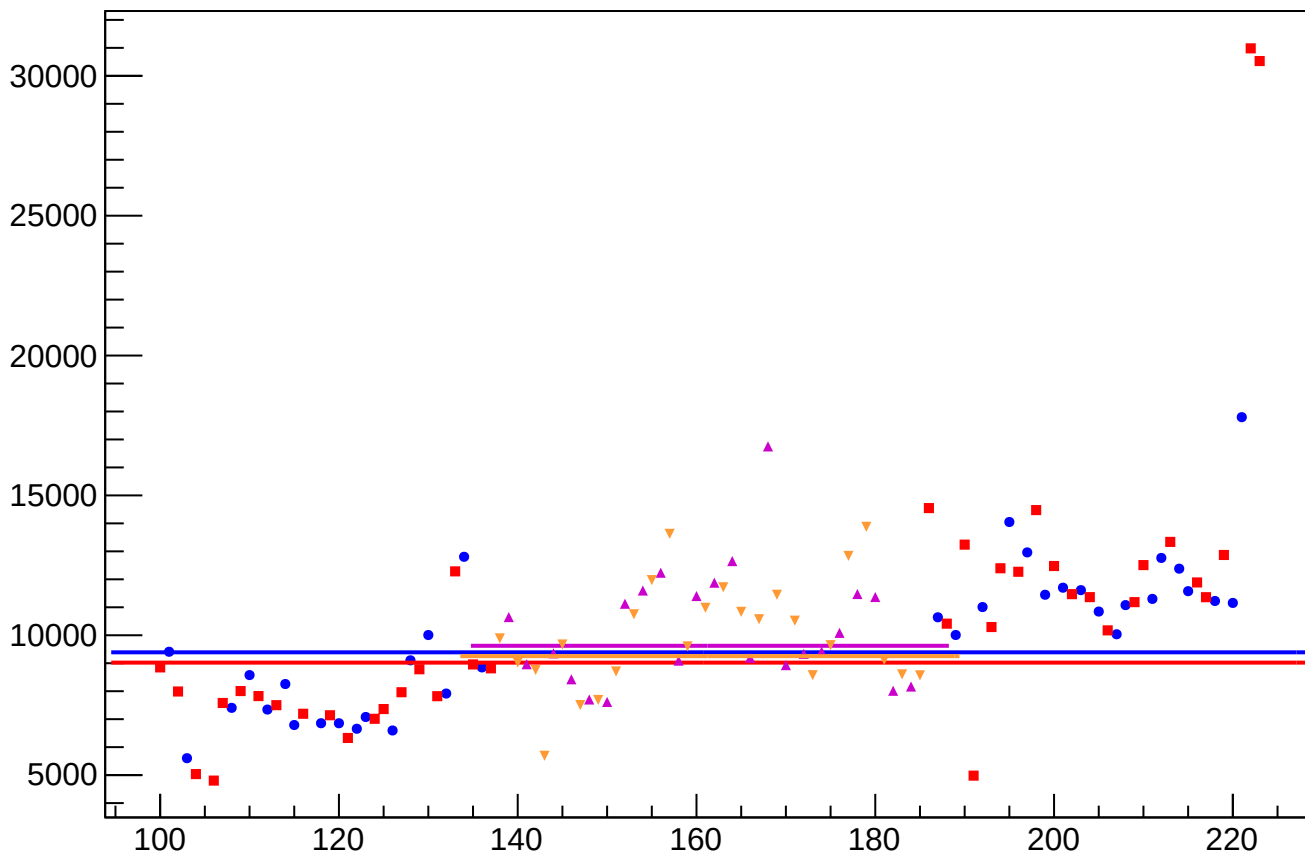
asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 1715.509 ± 2190.525 χ^2/NDF : 38.5/34
 Left Out: 1332.828 ± 2213.733 χ^2/NDF : 28.0/24
 Right Out: 5060.907 ± 2117.285 χ^2/NDF : 48.6/38
 Left In: 3316.909 ± 2344.543 χ^2/NDF : 13.7/22

Left: 2267.978 ± 1609.604 χ^2/NDF : 42.2/47
 Right: 3445.069 ± 1522.380 χ^2/NDF : 88.3/73
 In: 2461.886 ± 1600.616 χ^2/NDF : 52.5/57
 Out: 3279.848 ± 1530.107 χ^2/NDF : 78.1/63
 All: 2889.279 ± 1106.036 χ^2/NDF : 130.8/121

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9390.101+/-1.549 χ^2/NDF : 2517283.2/34

Left Out: 9252.712+/-1.565 χ^2/NDF :1597668.9/24

Right Out: 9021.770+/-1.497 χ^2/NDF : 4342366.9/38

Left In: 9623.485+/-1.658 χ^2/NDF :1069924.0/22

Left: 9427.467+/-1.138 χ^2/NDF : 2694036.4/47

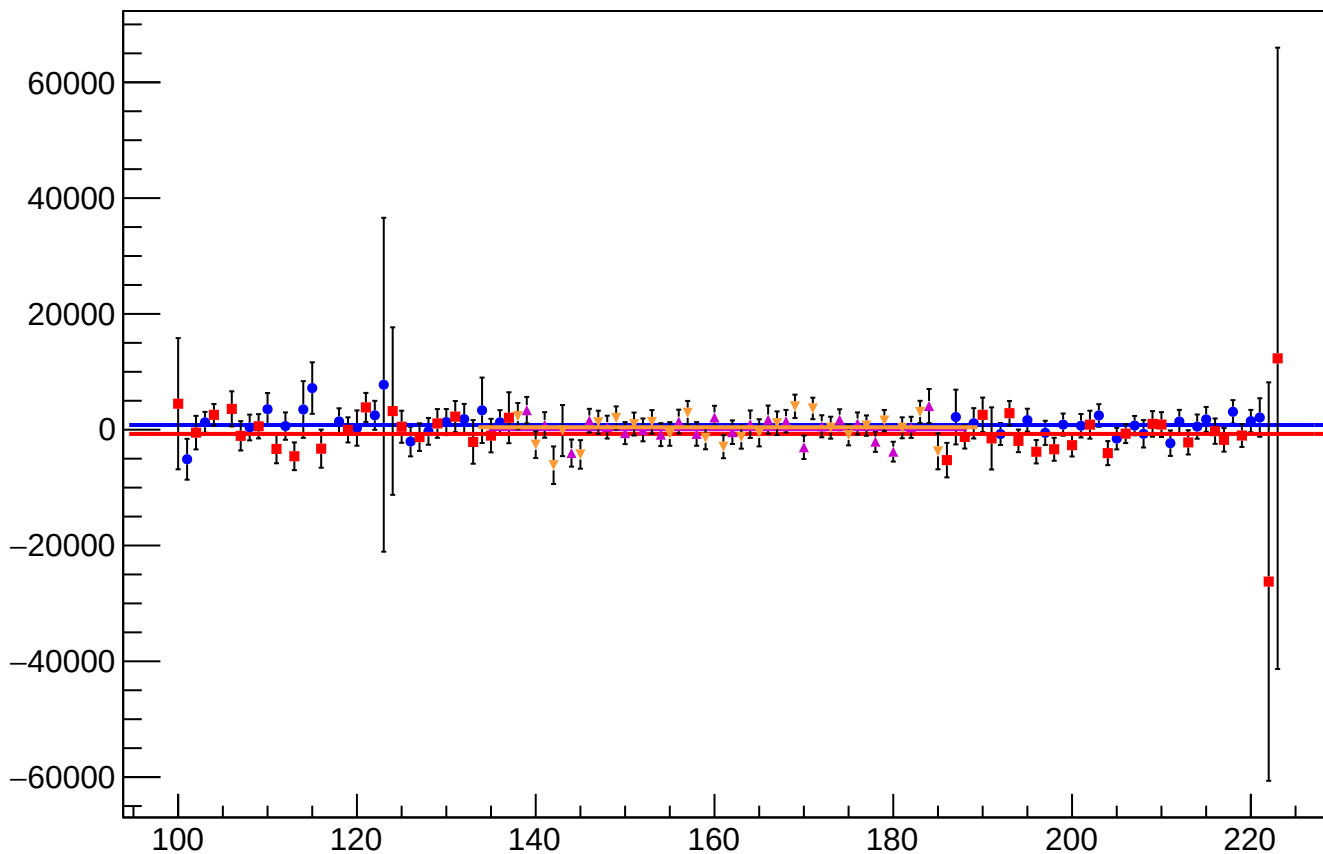
Right: 9199.661+/-1.076 χ^2/NDF : 6888887.7/73

In: 9498.874+/-1.132 χ^2/NDF :3597788.7/57

Out: 9132.090+/-1.082 χ^2/NDF :5951404.5/63

All: 9307.219+/-0.782 χ^2/NDF : 9604070.7/12

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 810.227+/-393.535 χ^2/NDF : 16.7/34

Left Out: 429.447+/-416.378 χ^2/NDF : 28.7/24

Right Out: -727.540+/-393.610 χ^2/NDF : 33.7/38

Left In: 88.373+/-421.957 χ^2/NDF : 21.0/22

Left: 261.180+/-296.376 χ^2/NDF : 50.0/47

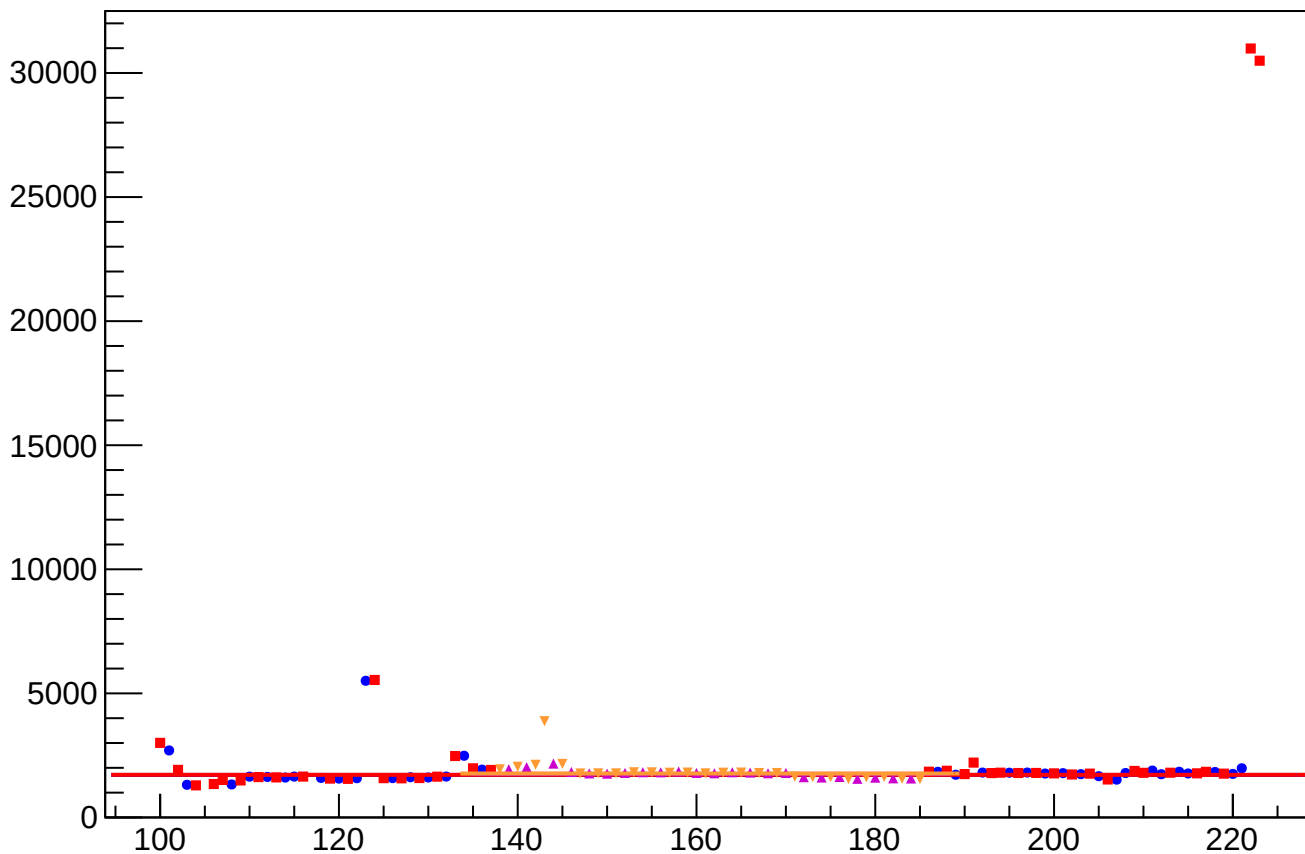
Right: 41.490+/-278.298 χ^2/NDF : 58.1/73

In: 474.428+/-287.795 χ^2/NDF : 39.3/57

Out: -181.542+/-286.035 χ^2/NDF : 66.5/63

All: 144.431+/-202.877 χ^2/NDF : 108.4/121

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1713.444+/-0.278 χ^2/NDF : 533265.7/34

Left Out: 1770.384+/-0.294 χ^2/NDF : 699536.9/24

Right Out: 1717.399+/-0.278 χ^2/NDF : 2614451.4/38

Left In: 1756.623+/-0.298 χ^2/NDF : 223077.6/22

Left: 1763.595+/-0.210 χ^2/NDF : 923692.1/47

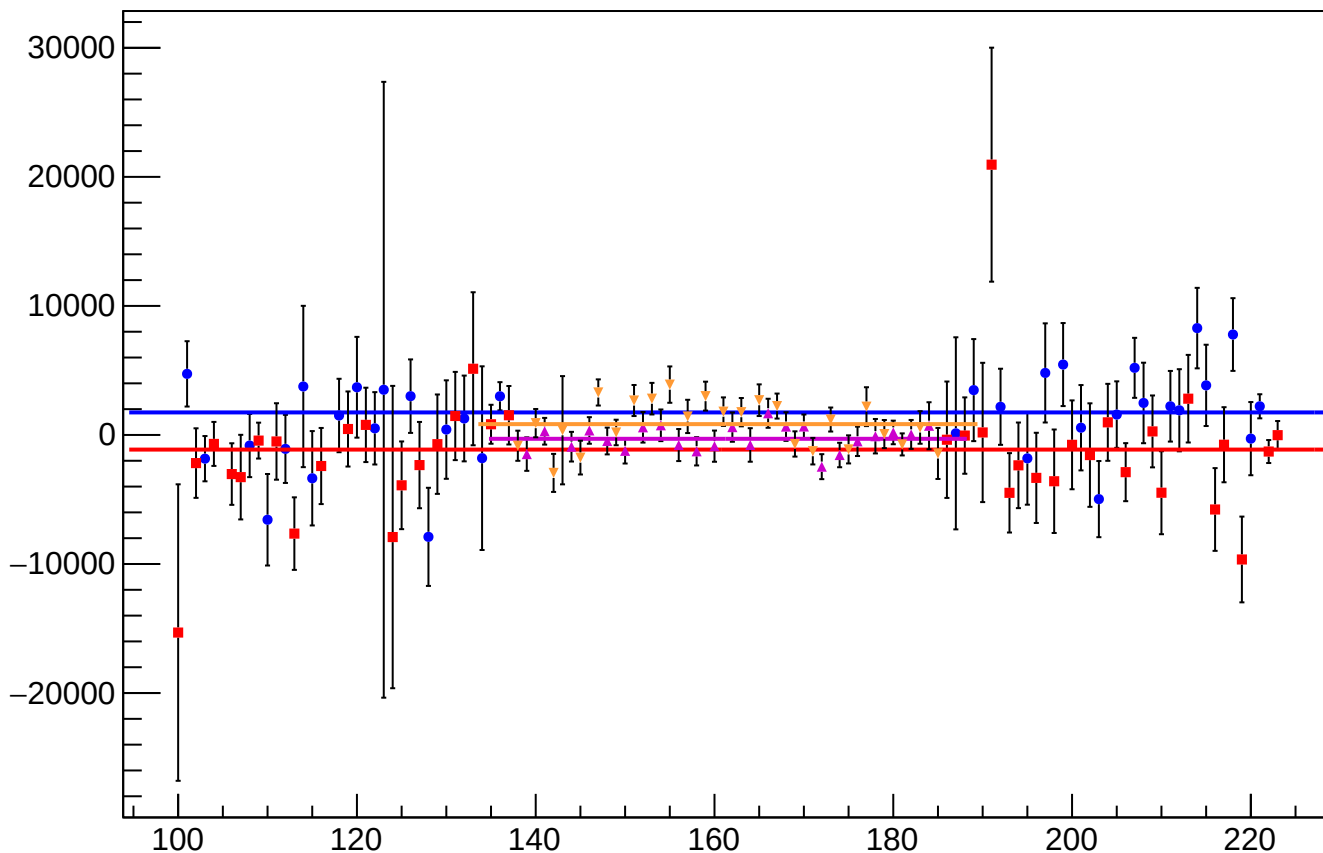
Right: 1715.421+/-0.197 χ^2/NDF : 3147818.1/73

In: 1733.531+/-0.204 χ^2/NDF : 767543.8/57

Out: 1742.403+/-0.202 χ^2/NDF : 3331091.2/63

All: 1737.994+/-0.143 χ^2/NDF : 4099591.2/12

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1746.156+/-429.729 χ^2/NDF : 45.2/34

Left Out: 839.344+/-230.465 χ^2/NDF : 54.4/24

Right Out: -1133.695+/-389.594 χ^2/NDF : 37.1/38

Left In: -298.801+/-231.400 χ^2/NDF : 18.3/22

Left: 272.574+/-163.293 χ^2/NDF : 84.9/47

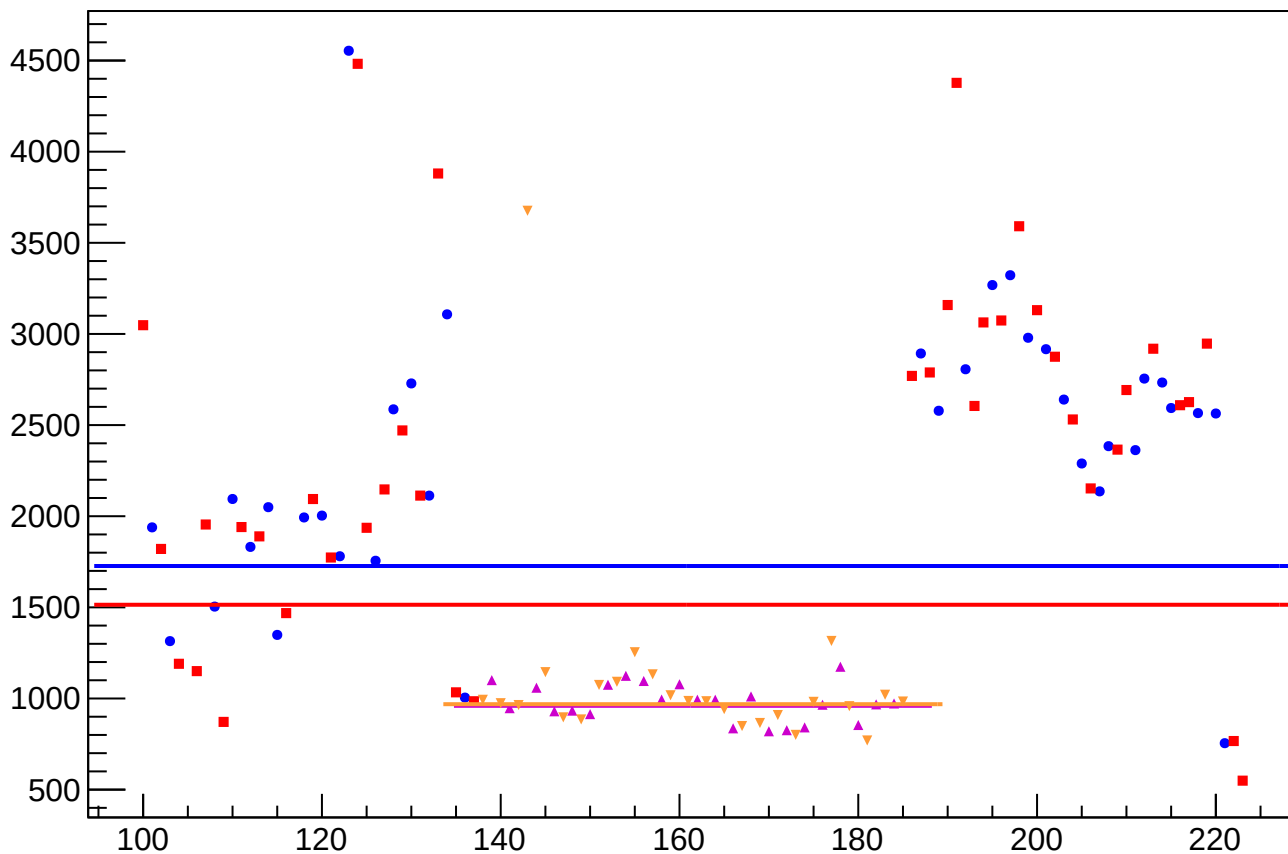
Right: 165.494+/-288.633 χ^2/NDF : 106.9/73

In: 160.866+/-203.739 χ^2/NDF : 81.1/57

Out: 327.886+/-198.358 χ^2/NDF : 110.5/63

All: 246.611+/-142.125 χ^2/NDF : 191.9/121

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1726.852 $\pm$ 0.304 χ^2 /NDF: 6783675.5/34

Left Out: 968.712 $\pm$ 0.163 χ^2 /NDF: 1393696.6/24

Right Out: 1514.243 $\pm$ 0.275 χ^2 /NDF: 10117813.9/38

Left In: 959.805 $\pm$ 0.164 χ^2 /NDF: 371210.5/22

Left: 964.276 $\pm$ 0.115 χ^2 /NDF: 1766394.7/47

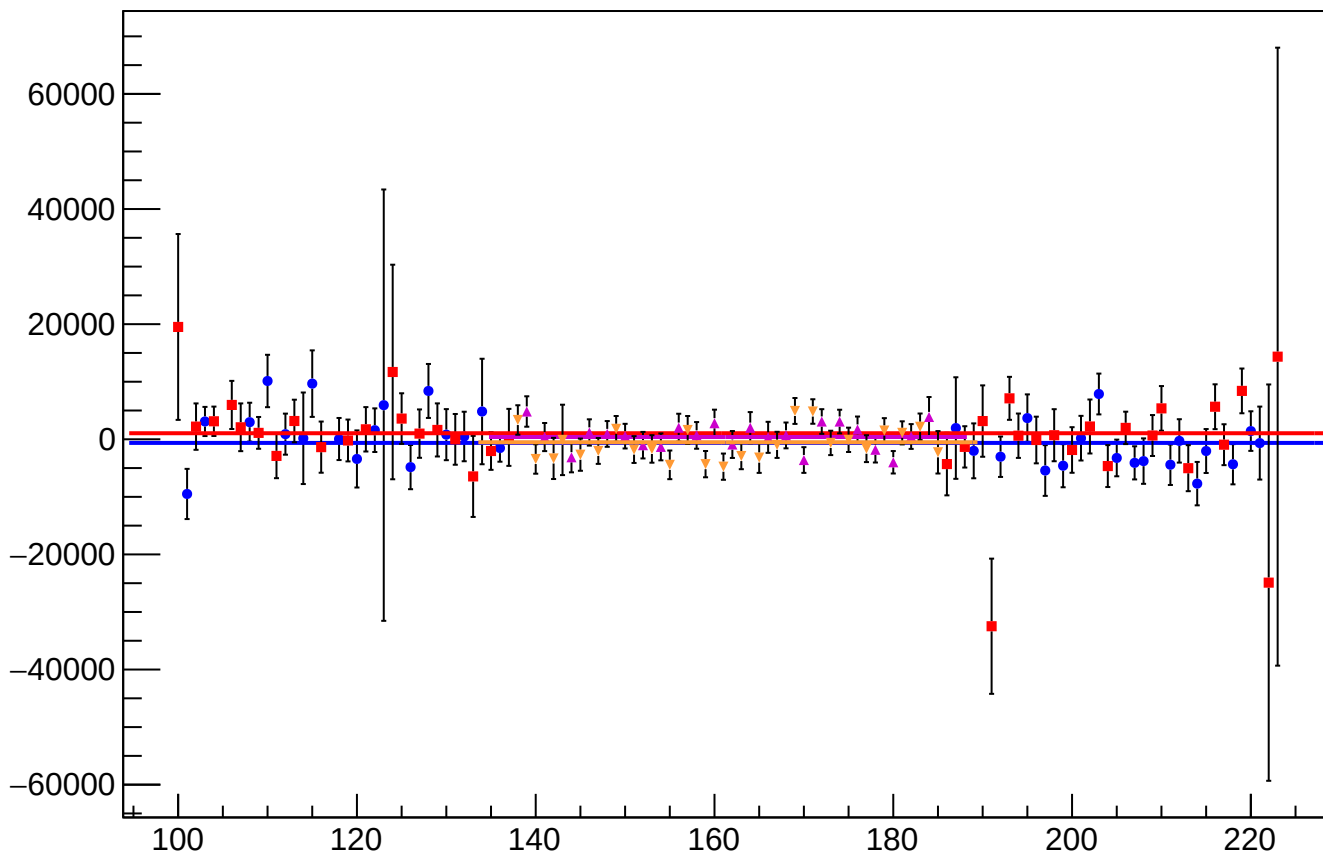
Right: 1610.157 $\pm$ 0.204 χ^2 /NDF: 17170190.3/73

In: 1132.222 $\pm$ 0.144 χ^2 /NDF: 12094673.7/57

Out: 1110.126 $\pm$ 0.140 χ^2 /NDF: 14416426.3/63

All: 1120.879 $\pm$ 0.100 χ^2 /NDF: 26523176.6/120

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -628.829 ± 660.475 χ^2/NDF : 41.6/34

Left Out: -517.719 ± 481.486 χ^2/NDF : 34.0/24

Right Out: 1052.047 ± 661.075 χ^2/NDF : 33.2/38

Left In: 397.398 ± 485.048 χ^2/NDF : 21.8/22

Left: -63.533 ± 341.714 χ^2/NDF : 57.7/47

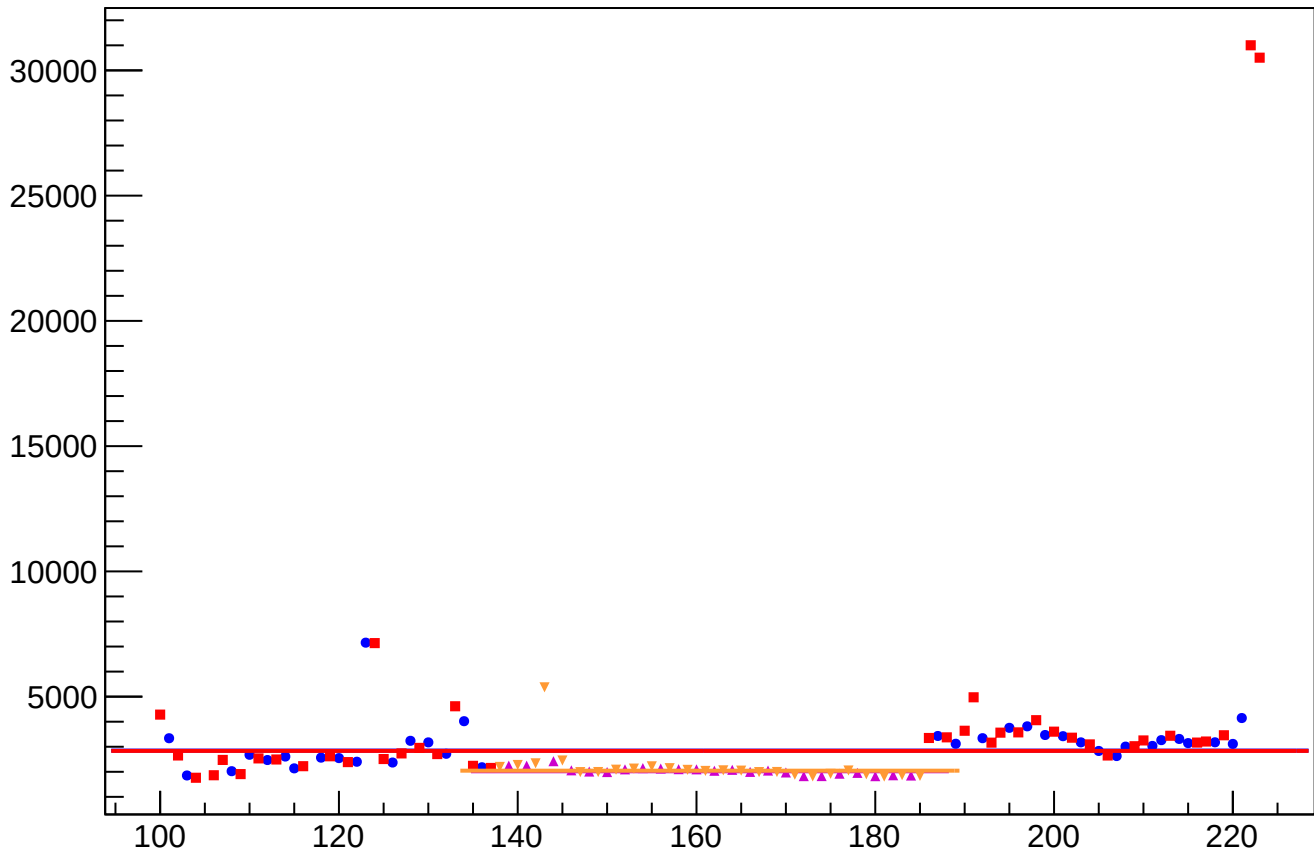
Right: 210.846 ± 467.238 χ^2/NDF : 78.0/73

In: 37.842 ± 390.947 χ^2/NDF : 65.0/57

Out: 26.376 ± 389.198 χ^2/NDF : 70.9/63

All: 32.083 ± 275.821 χ^2/NDF : 135.9/121

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2846.991+/-0.467 χ^2/NDF : 1395761.2/34

Left Out: 2044.722+/-0.340 χ^2/NDF : 788703.5/24

Right Out: 2834.425+/-0.467 χ^2/NDF : 3792966.9/38

Left In: 2020.802+/-0.343 χ^2/NDF : 173502.0/22

Left: 2032.850+/-0.242 χ^2/NDF : 964655.5/47

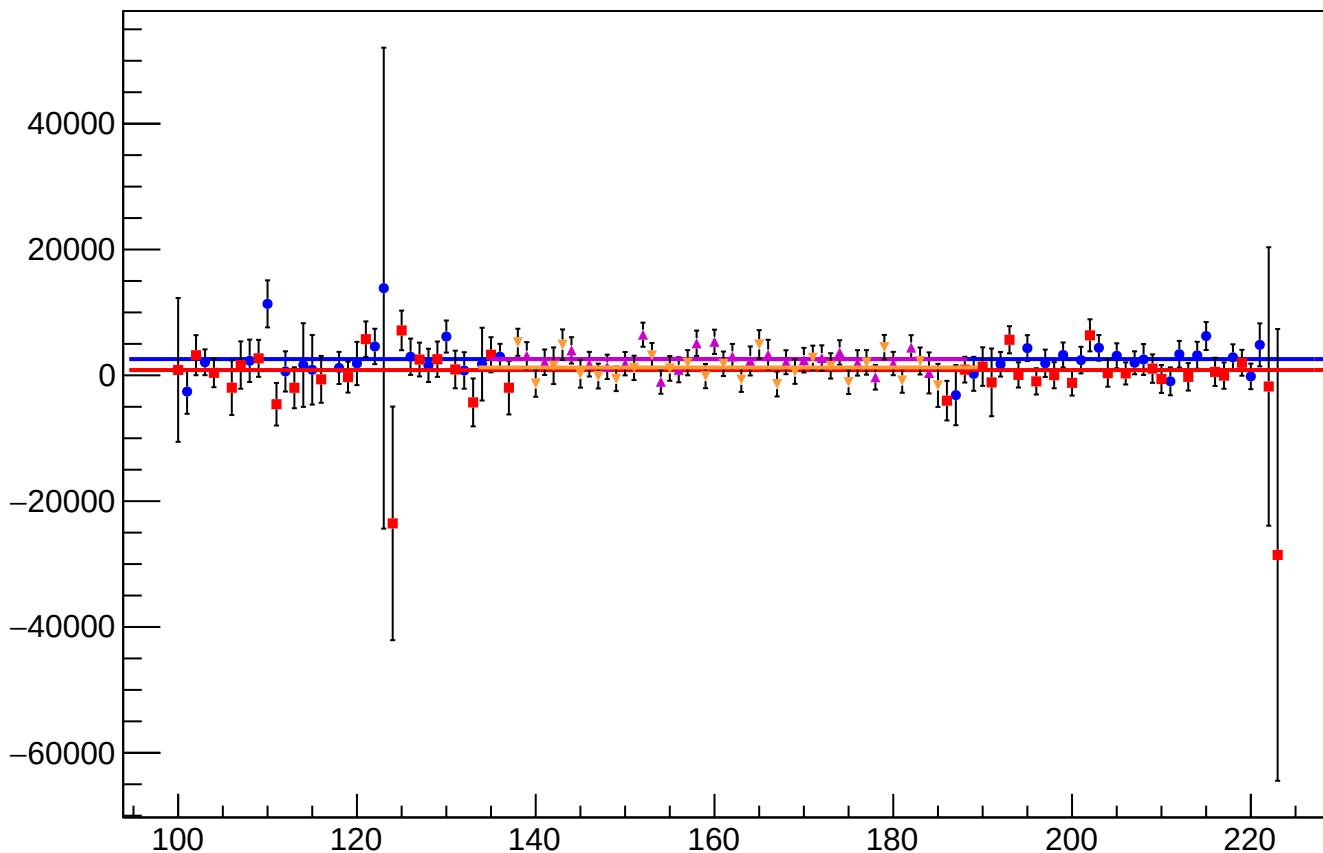
Right: 2840.714+/-0.330 χ^2/NDF : 5189089.8/73

In: 2310.272+/-0.276 χ^2/NDF : 3602298.4/57

Out: 2318.442+/-0.275 χ^2/NDF : 6446467.8/63

All: 2314.375+/-0.195 χ^2/NDF : 10049204.8/120

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2583.172 $\pm$ 424.792 χ^2 /NDF: 23.7/34

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF:23.0/24

Right Out: 844.122 $\pm$ 428.992 χ^2 /NDF: 33.9/38

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

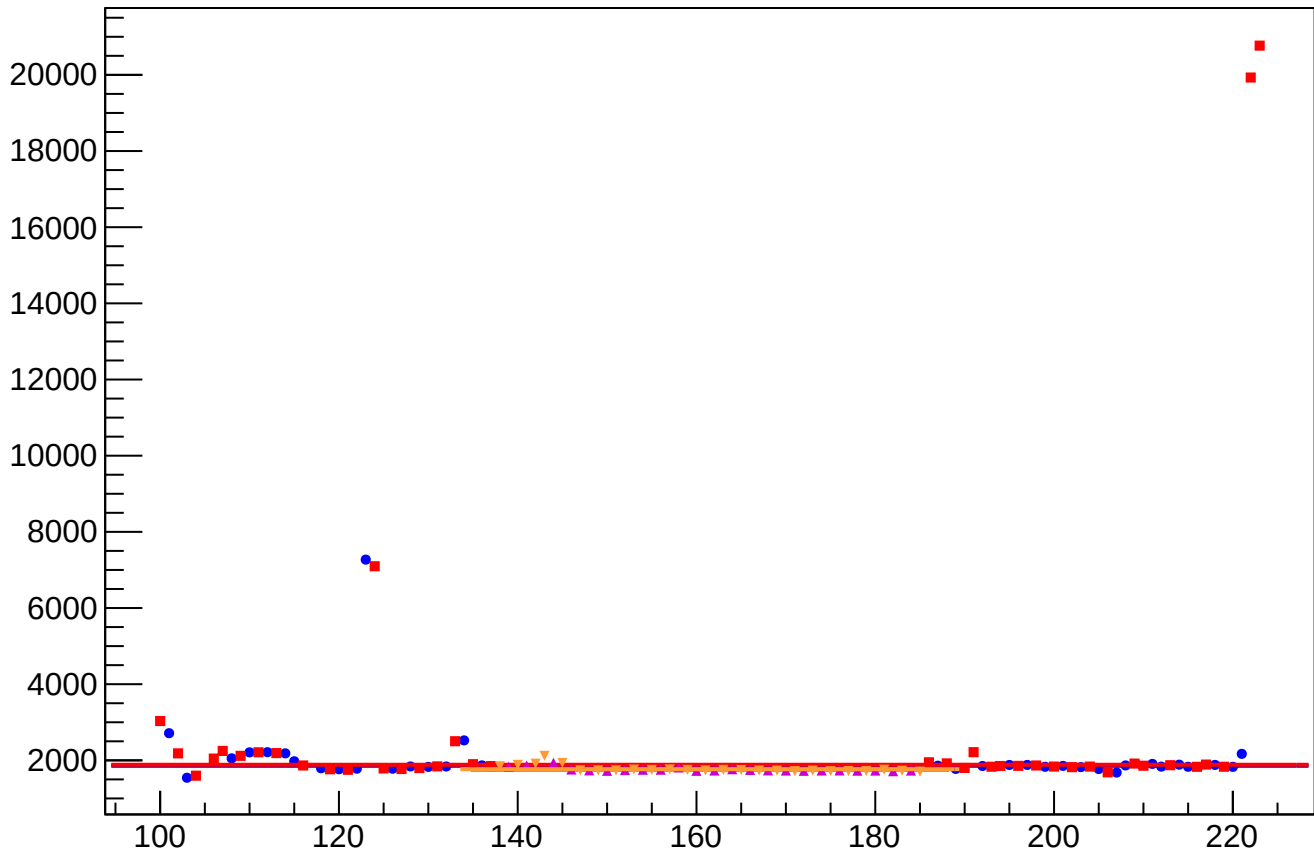
Right: 1722.200 $\pm$ 301.847 χ^2 /NDF: 66.0/73

In: 2585.069 $\pm$ 299.206 χ^2 /NDF:41.2/57

Out: 1054.976 $\pm$ 297.336 χ^2 /NDF:57.4/63

All: 1815.224 $\pm$ 210.906 χ^2 /NDF: 111.8/121

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1857.893+/-0.300 χ^2/NDF : 337302.6/34

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1884.558+/-0.303 χ^2/NDF : 2295438.8/38

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

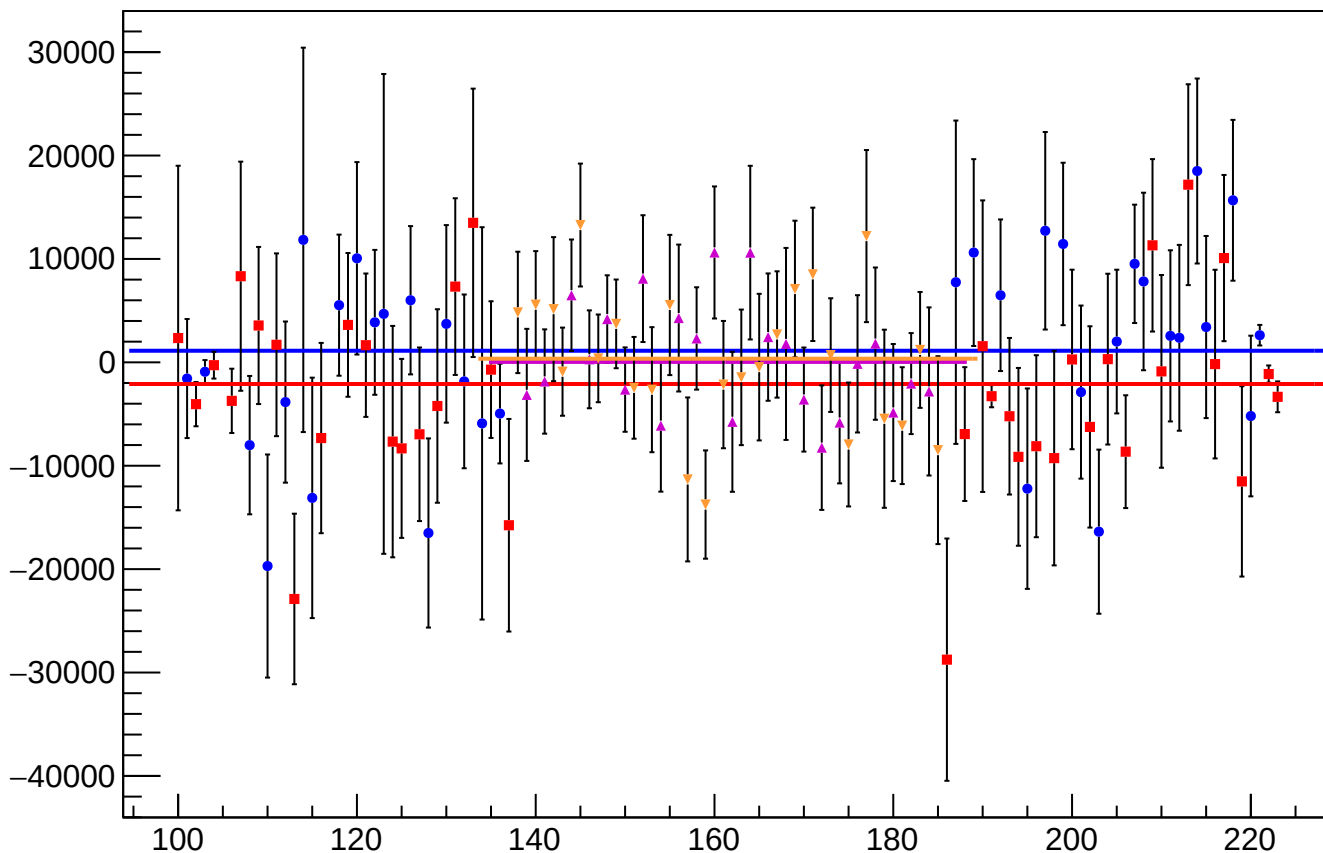
Right: 1871.101+/-0.213 χ^2/NDF : 2636644.8/73

In: 1807.597+/-0.212 χ^2/NDF : 422751.7/57

Out: 1823.773+/-0.210 χ^2/NDF : 2450510.1/63

All: 1815.738+/-0.149 χ^2/NDF : 2876203.5/12

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: 1120.422 $\pm$ 660.239 χ^2 /NDF: 44.0/34

Left Out: 351.227 $\pm$ 1170.051 χ^2 /NDF:27.8/24

Right Out: -2095.182 $\pm$ 491.988 χ^2 /NDF: 40.6/38

Left In: 40.618 $\pm$ 1207.491 χ^2 /NDF:16.0/22

Left: 200.813 $\pm$ 840.276 χ^2 /NDF: 43.9/47

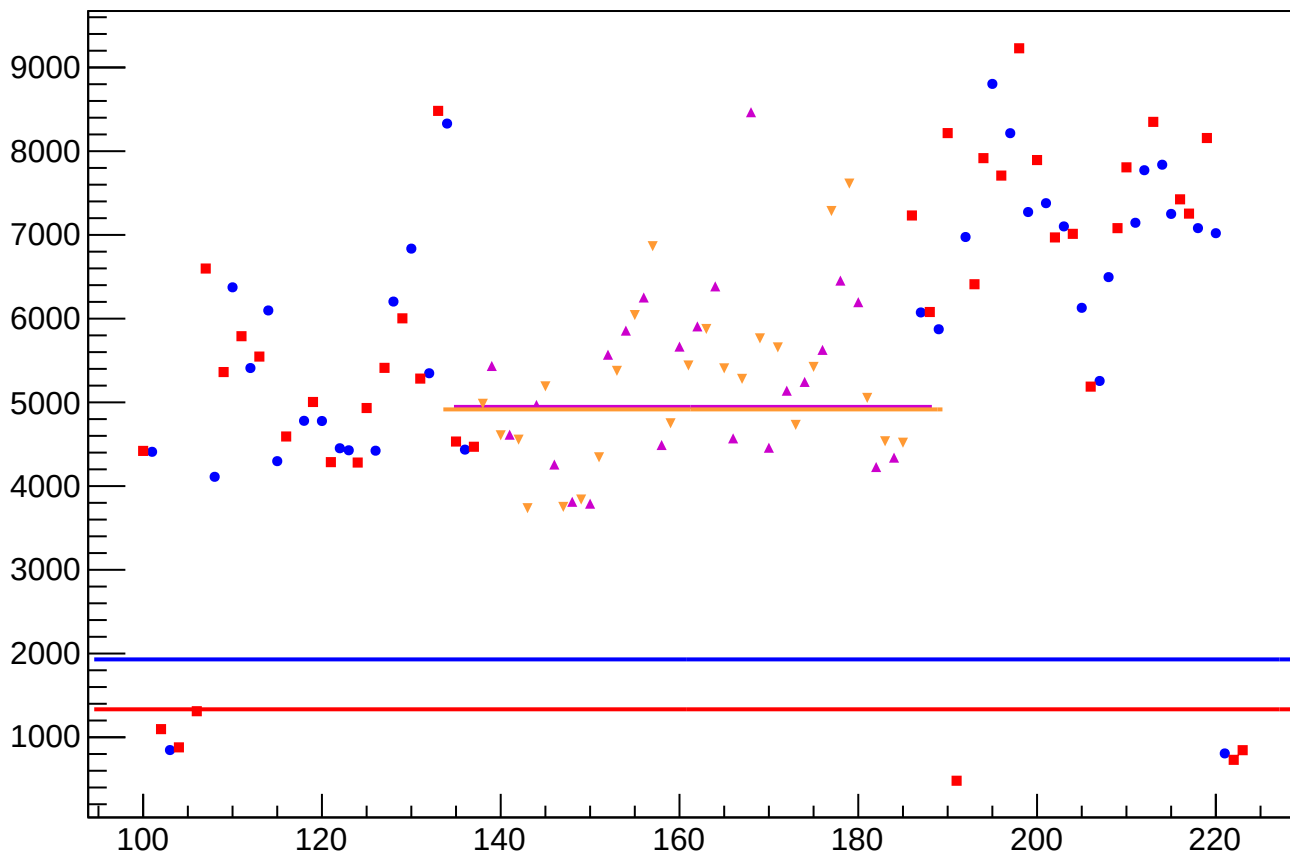
Right: -947.127 $\pm$ 394.504 χ^2 /NDF: 99.9/73

In: 871.892 $\pm$ 579.296 χ^2 /NDF:60.7/57

Out: -1727.626 $\pm$ 453.526 χ^2 /NDF:72.1/63

All: -739.794 $\pm$ 357.105 χ^2 /NDF: 145.3/121

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 1929.999+/-0.467

χ^2/NDF : 21930263.4/34

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 1546.732+/-0.279

χ^2/NDF : 48343552.6/73

Right Out: 1333.913+/-0.348

χ^2/NDF : 25365103.6/38

In: 2624.125+/-0.410

χ^2/NDF : 32722984.7/57

Out: 1872.076+/-0.321

χ^2/NDF : 42479330.4/63

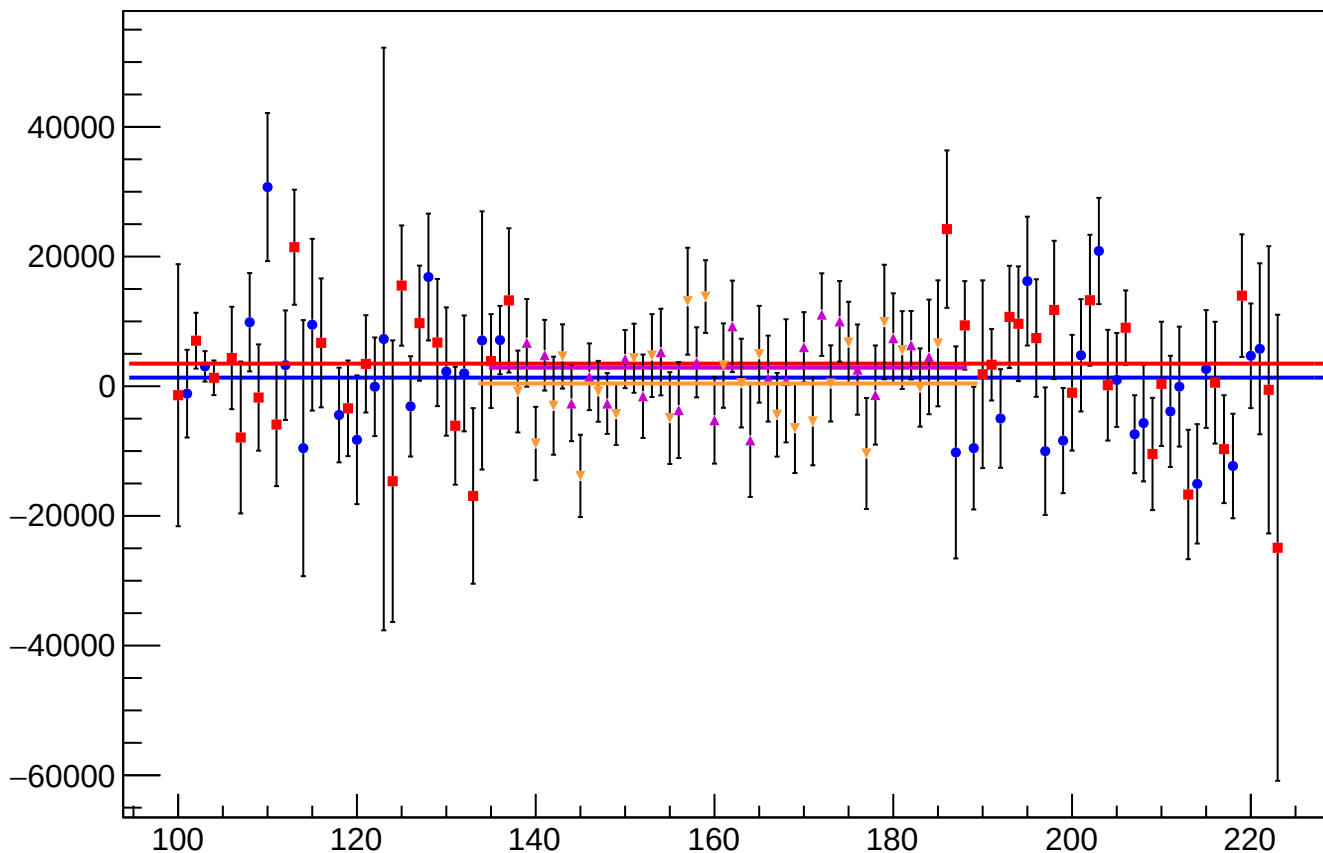
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2157.859+/-0.253

χ^2/NDF : 77292131.2/131

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1327.504+/-1262.848 χ^2/NDF : 37.9/34

Left Out: 430.860+/-1258.273 χ^2/NDF : 27.1/24

Right Out: 3487.139+/-1247.220 χ^2/NDF : 35.3/38

Left In: 2860.252+/-1292.328 χ^2/NDF : 12.9/22

Left: 1613.125+/-901.533 χ^2/NDF : 41.8/47

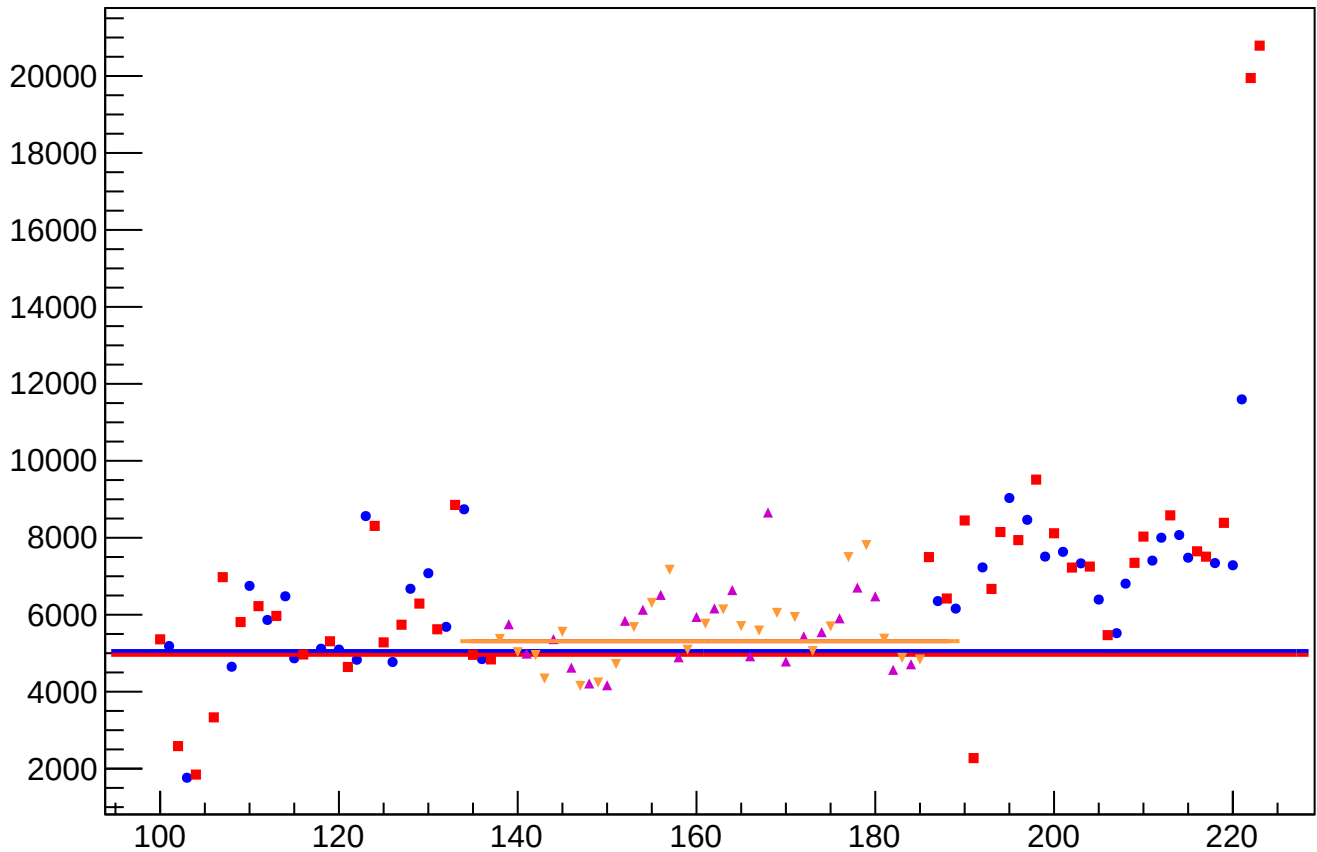
Right: 2420.767+/-887.391 χ^2/NDF : 74.7/73

In: 2076.196+/-903.211 χ^2/NDF : 51.4/57

Out: 1972.483+/-885.800 χ^2/NDF : 65.4/63

All: 2023.330+/-632.421 χ^2/NDF : 116.9/121

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 5056.435 $\pm$ 0.893 χ^2 /NDF: 7209156.5/34

Left Out: 5313.008 $\pm$ 0.890 χ^2 /NDF: 894369.8/24

Right Out: 4958.640 $\pm$ 0.878 χ^2 /NDF: 8628080.0/38

Left In: 5312.861 $\pm$ 0.914 χ^2 /NDF: 957400.7/22

Left: 5312.937 $\pm$ 0.637 χ^2 /NDF: 1851770.5/47

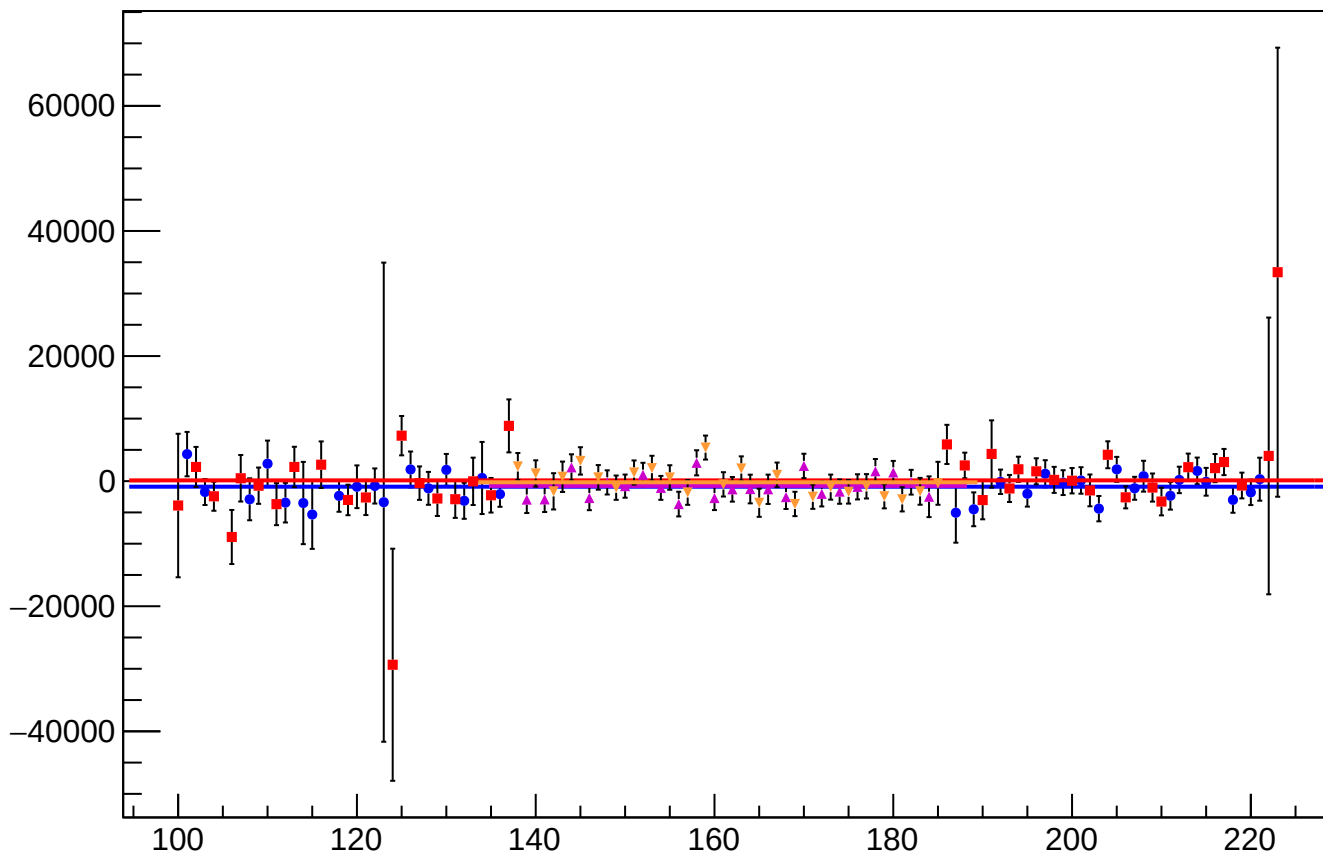
Right: 5006.732 $\pm$ 0.626 χ^2 /NDF: 15843332.3/73

In: 5181.690 $\pm$ 0.639 χ^2 /NDF: 8206836.6/57

Out: 5133.547 $\pm$ 0.625 χ^2 /NDF: 9602784.9/63

All: 5157.101 $\pm$ 0.447 χ^2 /NDF: 17812523.7/137

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -887.208 $\pm$ 424.551 χ^2 /NDF: 21.8/34

Left Out: -179.794 $\pm$ 410.976 χ^2 /NDF:29.3/24

Right Out: 124.960 $\pm$ 428.630 χ^2 /NDF: 47.5/38

Left In: -759.753 $\pm$ 419.905 χ^2 /NDF:20.3/22

Left: -463.542 $\pm$ 293.710 χ^2 /NDF: 50.5/47

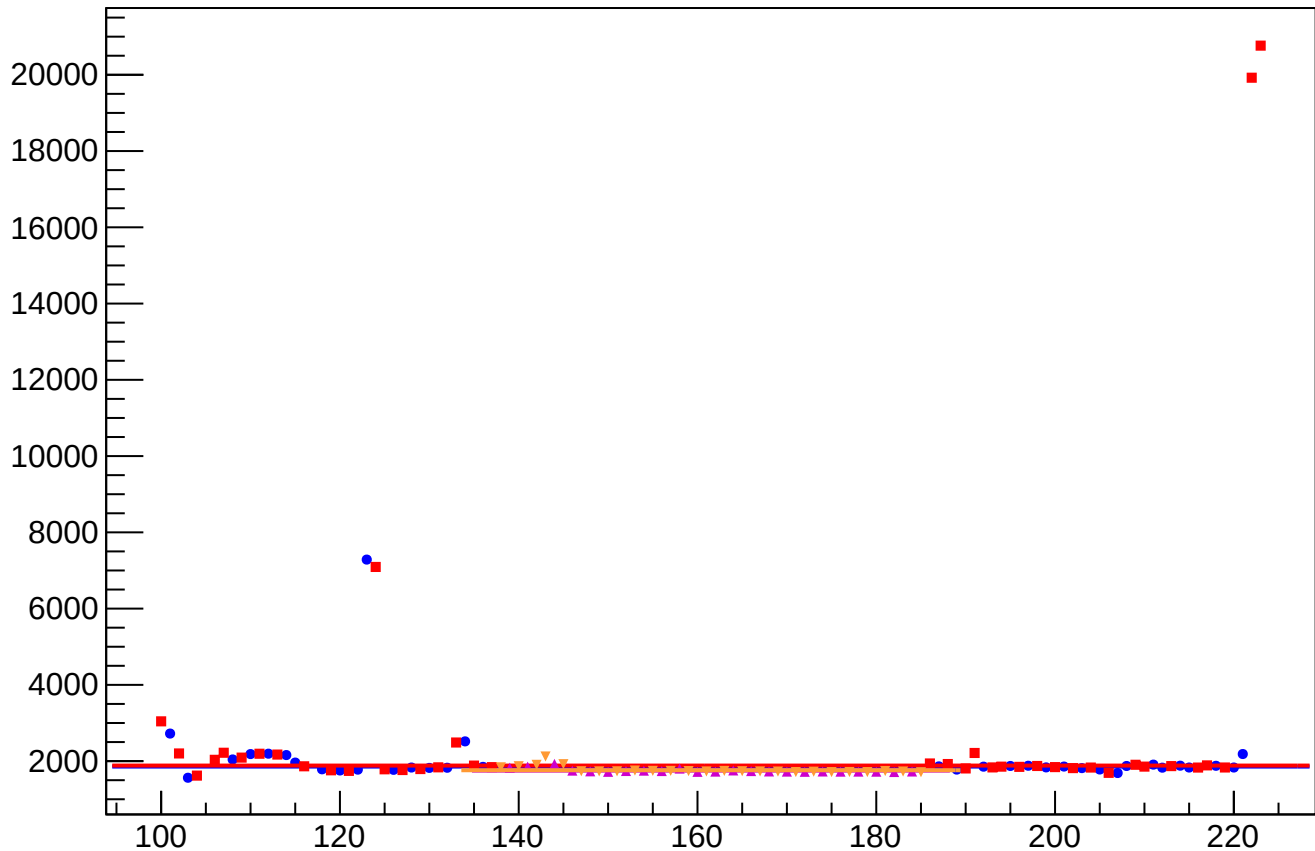
Right: -385.963 $\pm$ 301.635 χ^2 /NDF: 72.1/73

In: -822.780 $\pm$ 298.547 χ^2 /NDF:42.1/57

Out: -33.822 $\pm$ 296.649 χ^2 /NDF:77.0/63

All: -425.785 $\pm$ 210.430 χ^2 /NDF: 122.6/121

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1857.184+/-0.300 χ^2/NDF : 326185.8/34

Left Out: 1761.091+/-0.291 χ^2/NDF : 77468.5/24

Right Out: 1883.517+/-0.303 χ^2/NDF : 2280480.2/38

Left In: 1751.418+/-0.297 χ^2/NDF : 28578.7/22

Left: 1756.358+/-0.208 χ^2/NDF : 106589.3/47

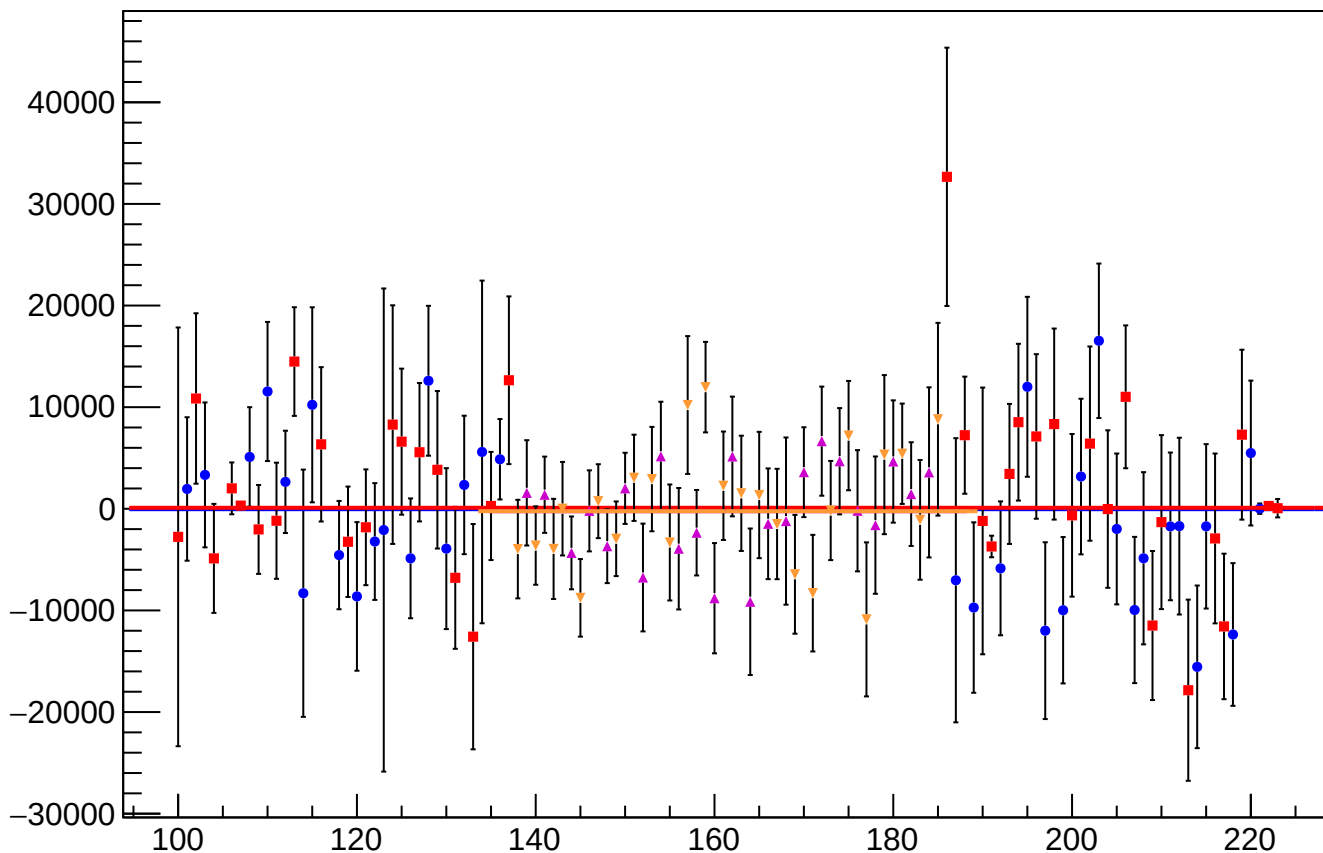
Right: 1870.231+/-0.213 χ^2/NDF : 2610478.4/73

In: 1803.719+/-0.211 χ^2/NDF : 417510.3/57

Out: 1819.763+/-0.210 χ^2/NDF : 2443004.7/63

All: 1811.794+/-0.149 χ^2/NDF : 2863422.2/12

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: -38.184 ± 472.025 χ^2/NDF : 37.0/34

Left Out: -235.806 ± 1005.144 χ^2/NDF : 28.9/24

Right Out: 99.454 ± 269.947 χ^2/NDF : 55.9/38

Left In: -239.224 ± 1028.883 χ^2/NDF : 15.3/22

Left: -237.475 ± 718.990 χ^2/NDF : 44.2/47

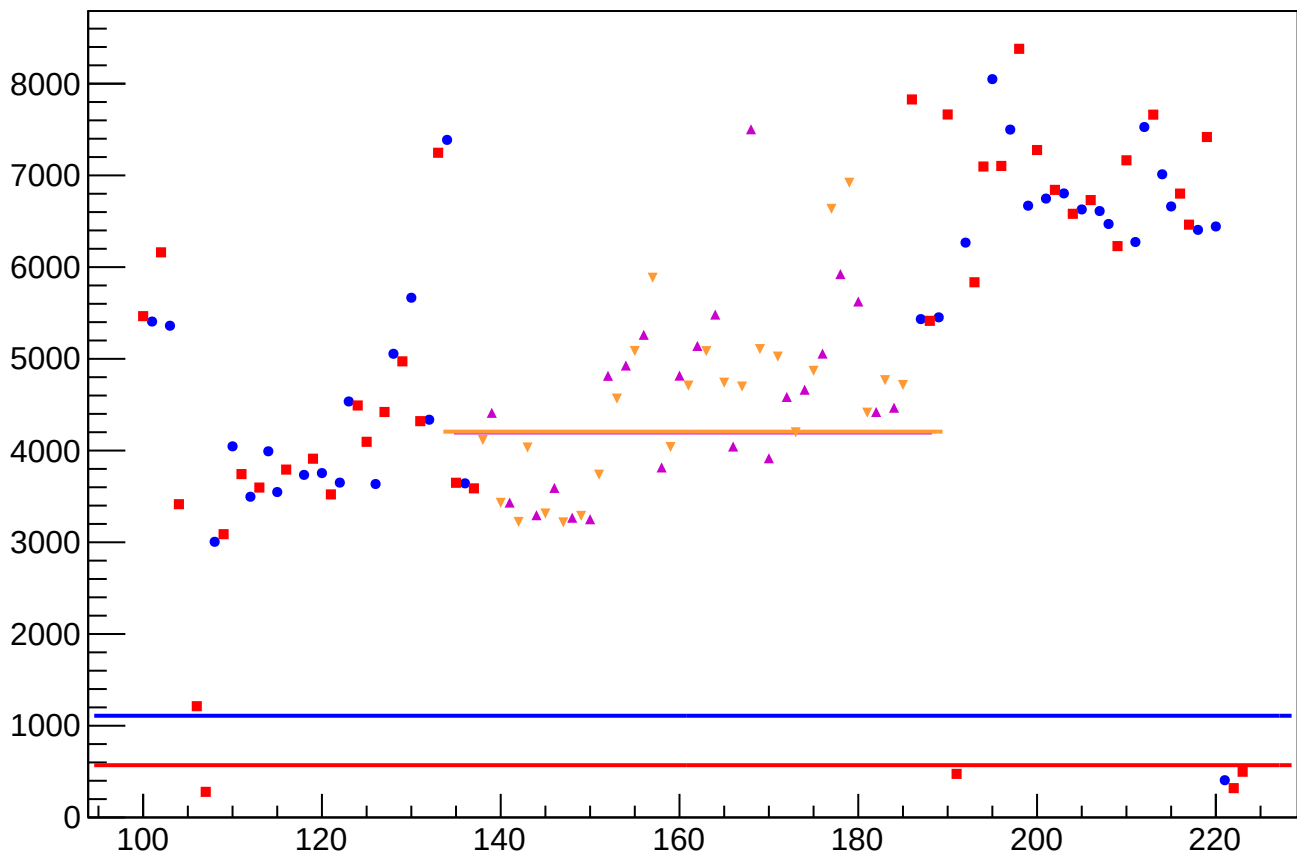
Right: 65.532 ± 234.333 χ^2/NDF : 93.0/73

In: -73.140 ± 429.030 χ^2/NDF : 52.4/57

Out: 76.899 ± 260.709 χ^2/NDF : 84.9/63

All: 36.436 ± 222.799 χ^2/NDF : 137.3/121

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1108.702+/-0.334

χ^2/NDF : 28038805.1/34

Left Out: 4206.076+/-0.711

χ^2/NDF : 1442269.3/24

Right Out: 569.796+/-0.191

χ^2/NDF : 31460659.0/38

Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

Left: 4201.775+/-0.508

χ^2/NDF : 2913357.2/47

Right: 702.613+/-0.166

χ^2/NDF : 61463888.5/73

In: 1645.733+/-0.303

χ^2/NDF : 44398492.6/57

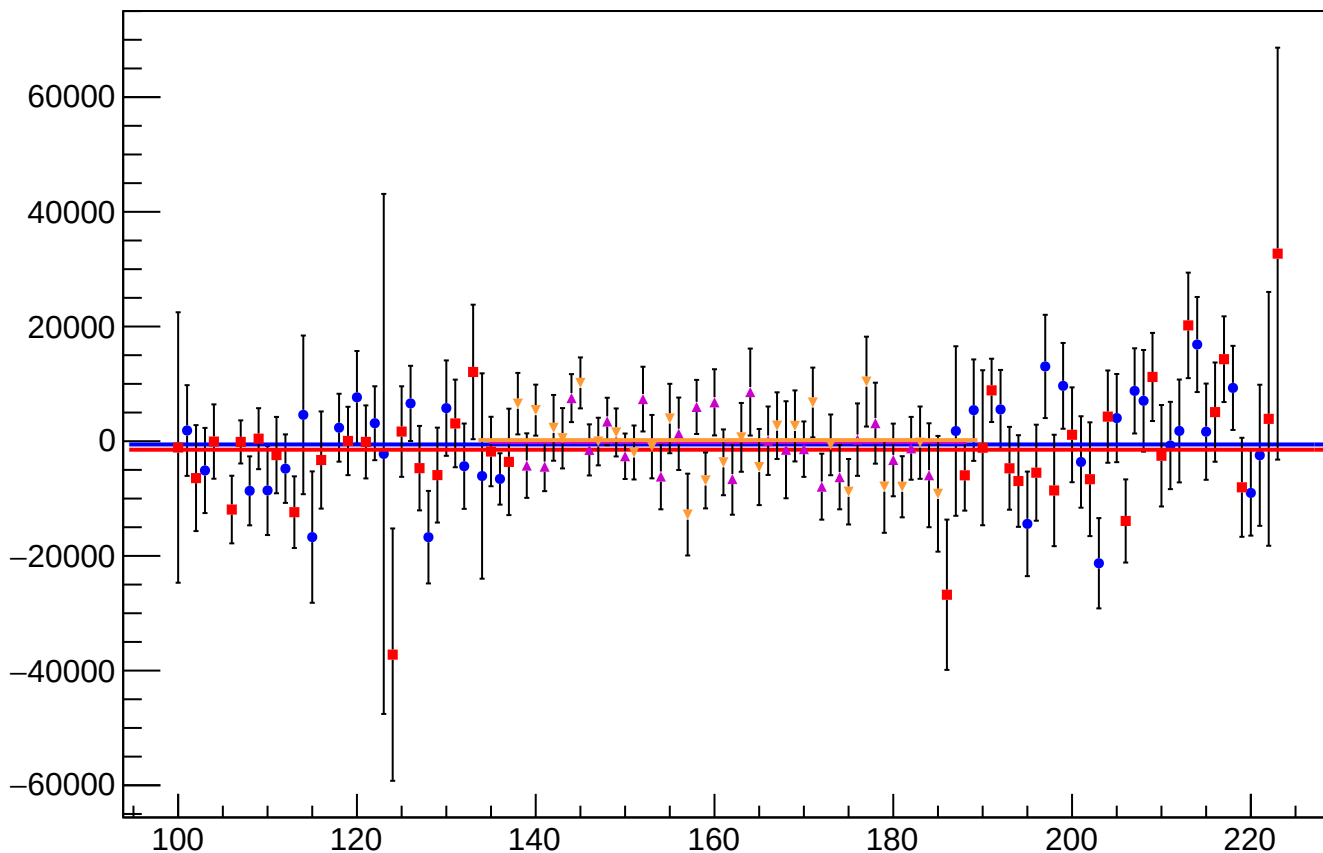
Out: 814.428+/-0.184

χ^2/NDF : 57317087.9/63

All: 1038.615+/-0.158

χ^2/NDF : 107199468.6

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -566.245 $\pm$ 1320.302 χ^2 /NDF: 40.7/34

Left Out: 189.721 $\pm$ 1106.851 χ^2 /NDF: 25.0/24

Right Out: -1480.838 $\pm$ 1212.655 χ^2 /NDF: 39.9/38

Left In: -137.477 $\pm$ 1129.656 χ^2 /NDF: 18.6/22

Left: 29.458 $\pm$ 790.601 χ^2 /NDF: 43.6/47

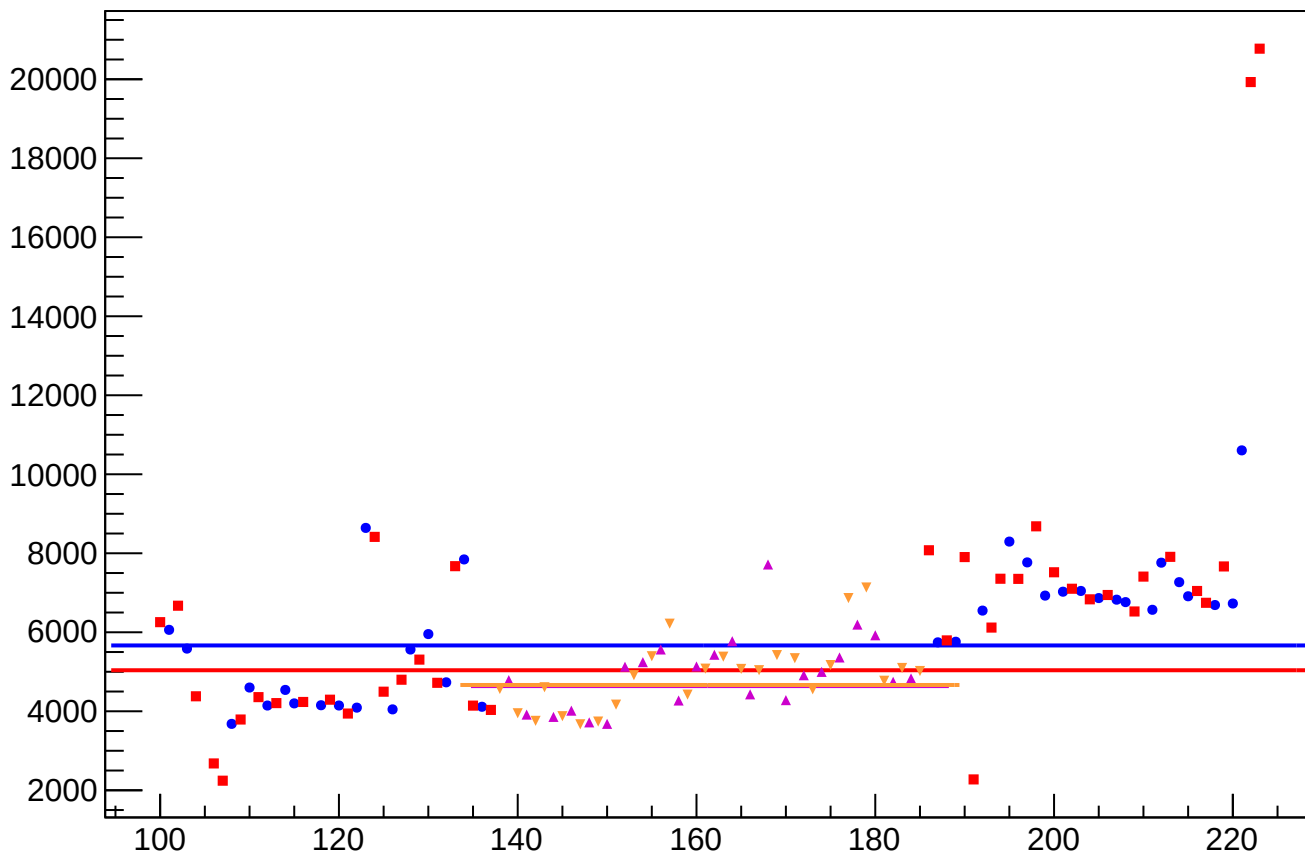
Right: -1062.340 $\pm$ 893.112 χ^2 /NDF: 80.8/73

In: -318.697 $\pm$ 858.351 χ^2 /NDF: 59.3/57

Out: -569.515 $\pm$ 817.513 χ^2 /NDF: 65.9/63

All: -450.214 $\pm$ 591.980 χ^2 /NDF: 125.3/121

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5666.442 $\pm$ 0.934 χ^2 /NDF: 2462467.4/34

Left Out: 4665.620 $\pm$ 0.783 χ^2 /NDF: 1017235.0/24

Right Out: 5038.556 $\pm$ 0.854 χ^2 /NDF: 6060652.3/38

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

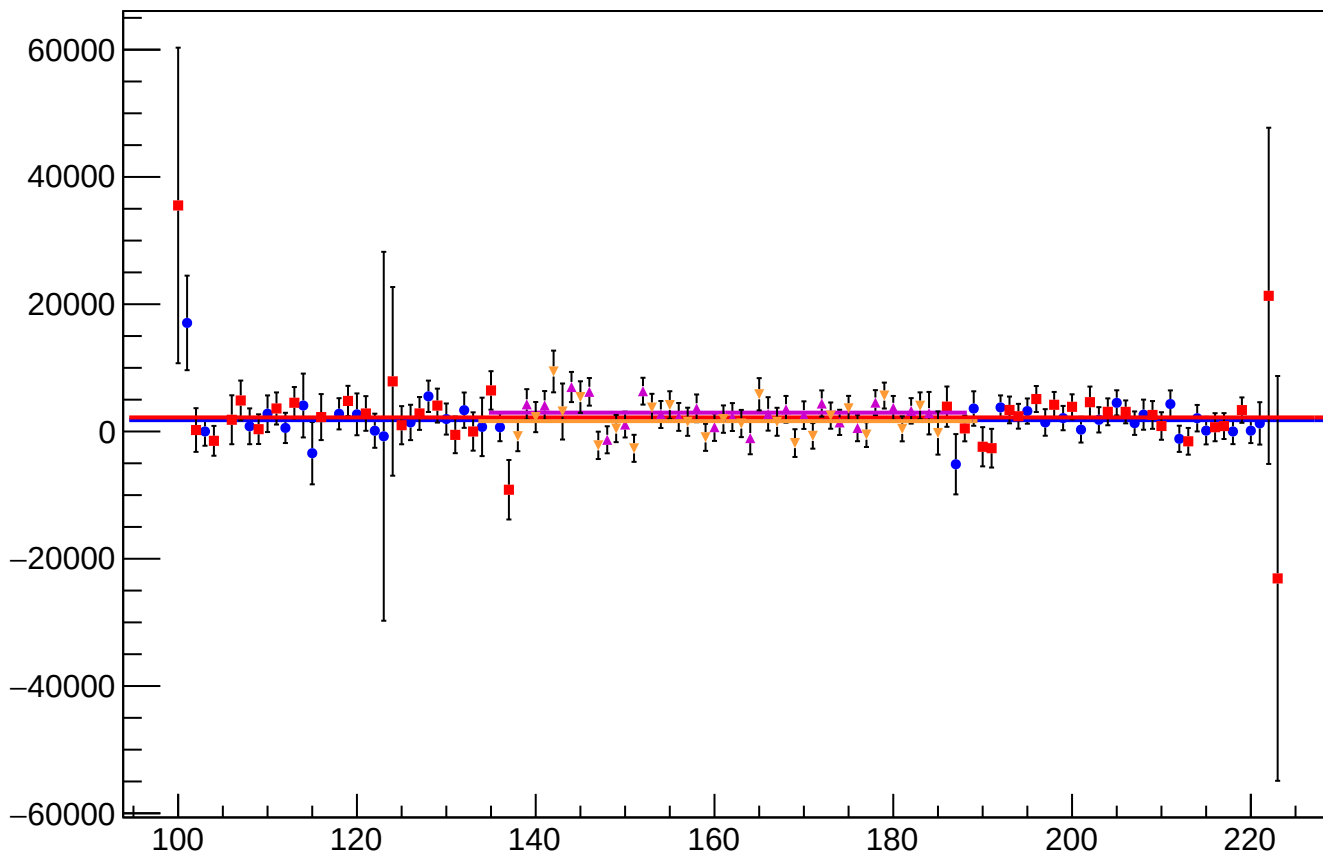
Right: 5324.676 $\pm$ 0.630 χ^2 /NDF: 8769323.0/73

In: 5072.545 $\pm$ 0.607 χ^2 /NDF: 4228604.9/57

Out: 4835.817 $\pm$ 0.577 χ^2 /NDF: 7181505.8/63

All: 4948.211 $\pm$ 0.418 χ^2 /NDF: 11490009.8/120

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1782.103+/-411.147 χ^2/NDF : 22.8/34

Left Out: 1630.035+/-447.063 χ^2/NDF : 35.4/24

Right Out: 2209.281+/-409.553 χ^2/NDF : 35.7/38

Left In: 2958.620+/-453.688 χ^2/NDF : 20.4/22

Left: 2284.557+/-318.438 χ^2/NDF : 60.2/47

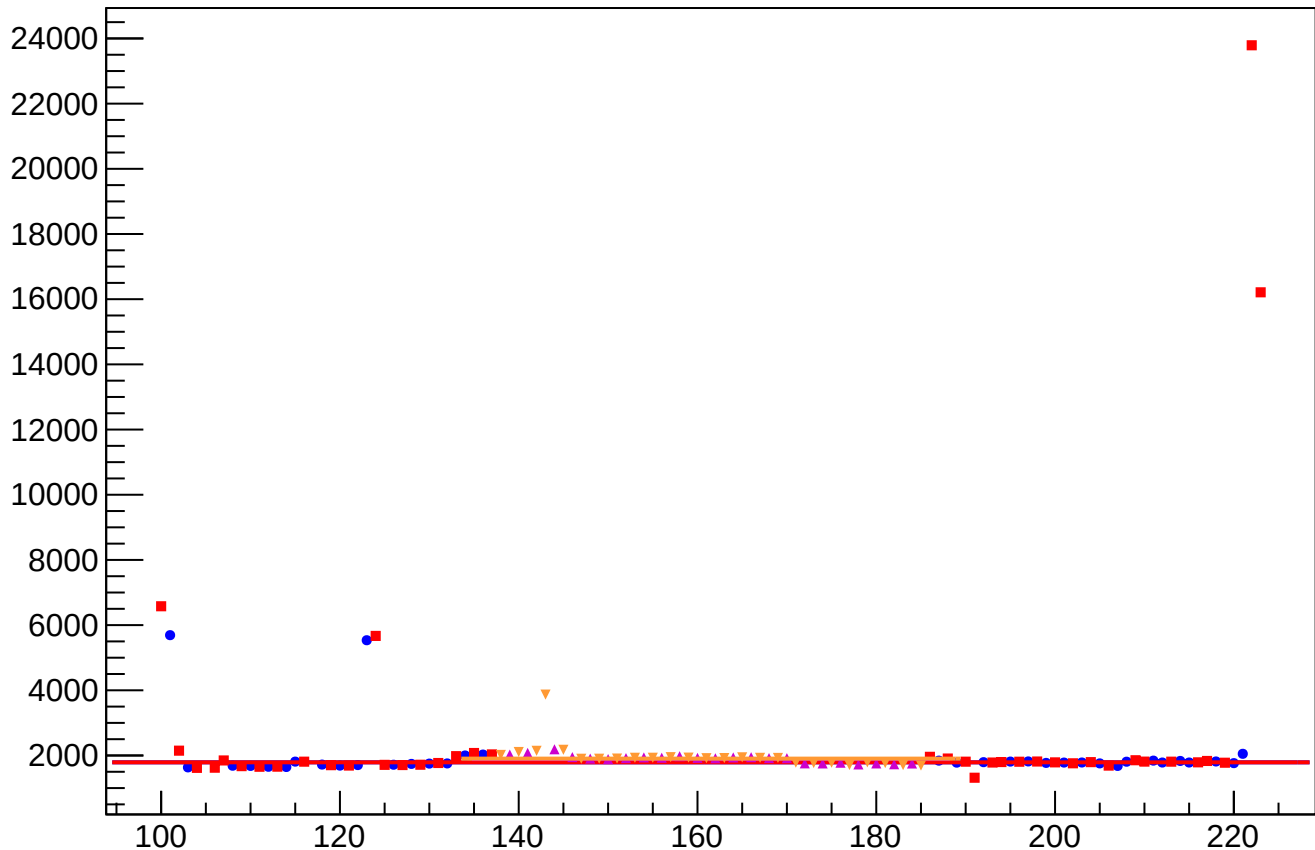
Right: 1996.522+/-290.159 χ^2/NDF : 59.1/73

In: 2312.628+/-304.657 χ^2/NDF : 46.9/57

Out: 1944.974+/-301.989 χ^2/NDF : 72.1/63

All: 2127.185+/-214.476 χ^2/NDF : 119.7/121

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1789.753+/-0.291 χ^2 /NDF: 668829.2/34

Left Out: 1903.618+/-0.316 χ^2 /NDF: 541575.7/24

Right Out: 1789.993+/-0.289 χ^2 /NDF: 2177271.5/38

Left In: 1888.927+/-0.321 χ^2 /NDF: 126417.2/22

Left: 1896.381+/-0.225 χ^2 /NDF: 669056.9/47

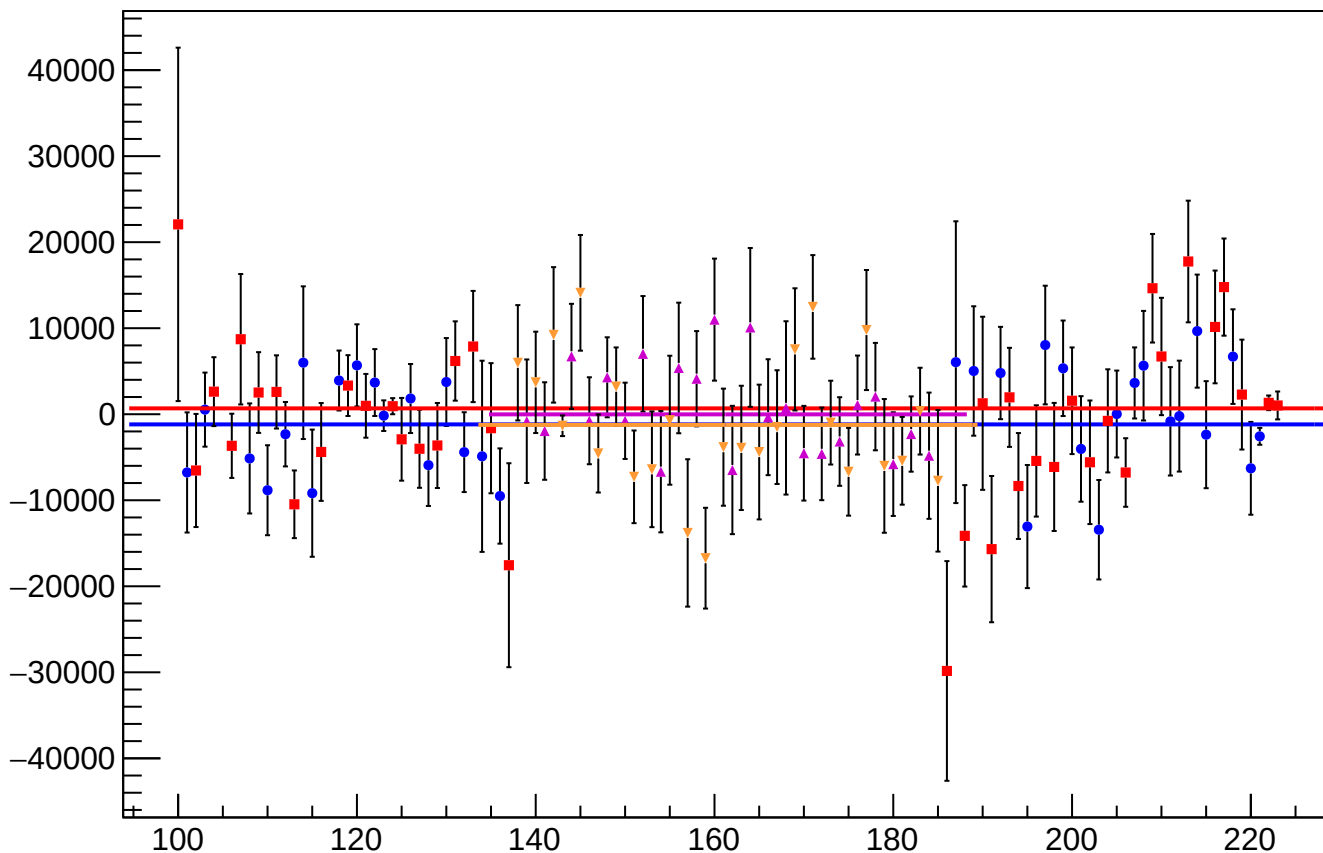
Right: 1789.874+/-0.205 χ^2 /NDF: 2846101.0/73

In: 1834.473+/-0.215 χ^2 /NDF: 847720.2/57

Out: 1841.700+/-0.213 χ^2 /NDF: 2789249.1/63

All: 1838.123+/-0.152 χ^2 /NDF: 3637537.8/12

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -1181.758+/-632.837 χ^2/NDF : 39.7/34

Left Out: -1239.833+/-865.201 χ^2/NDF : 33.9/24

Right Out: 680.187+/-494.186 χ^2/NDF : 66.9/38

Left In: -15.863+/-1243.317 χ^2/NDF : 13.2/22

Left: -840.501+/-710.172 χ^2/NDF : 47.8/47

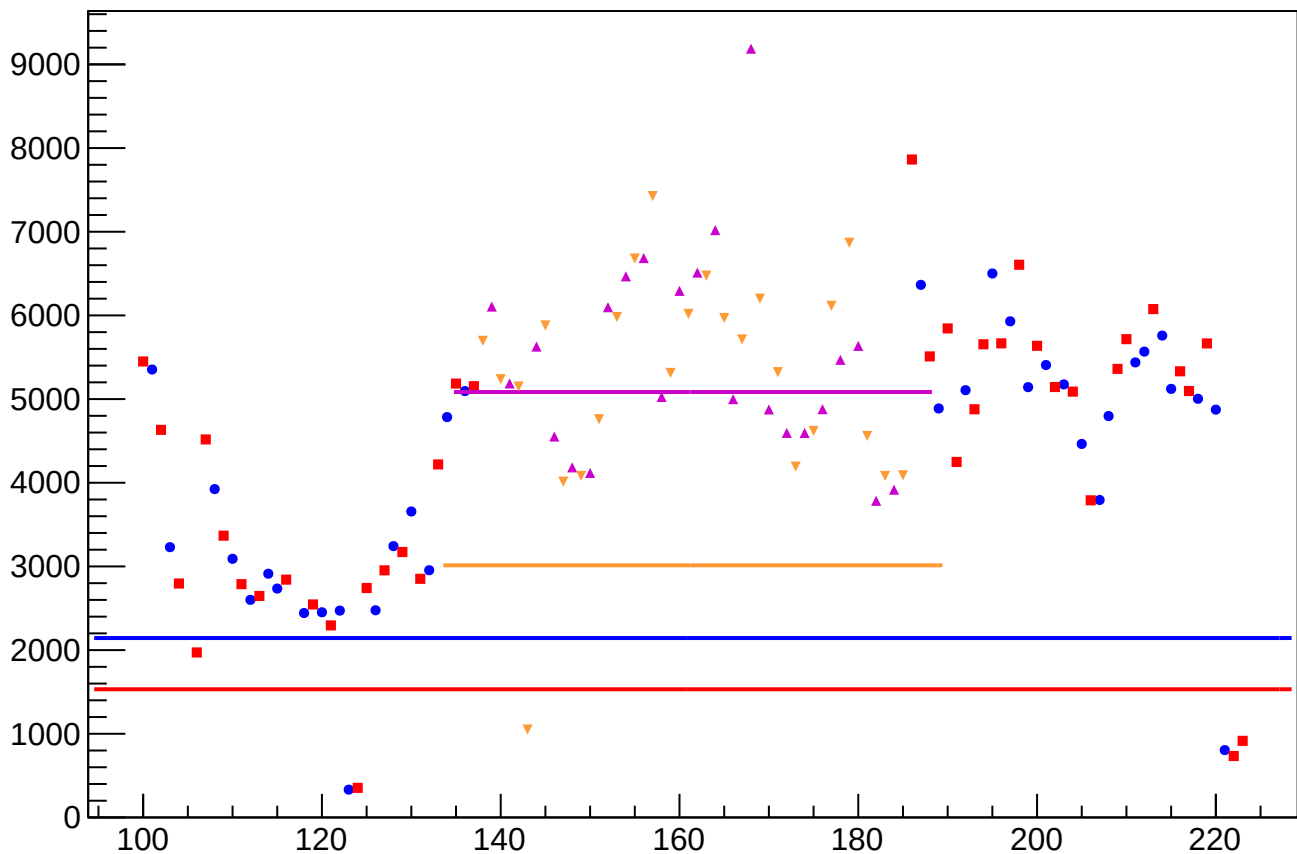
Right: -25.135+/-389.496 χ^2/NDF : 112.0/73

In: -941.859+/-563.984 χ^2/NDF : 53.7/57

Out: 207.877+/-429.119 χ^2/NDF : 104.5/63

All: -213.682+/-341.505 χ^2/NDF : 160.8/121

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2144.263 $\pm$ 0.447

χ^2 /NDF: 16092778.0/34

Left Out: 3013.268 $\pm$ 0.612

χ^2 /NDF: 12270753.9/24

Right Out: 1531.958 $\pm$ 0.349

χ^2 /NDF: 21615326.5/38

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: 1763.905 $\pm$ 0.275

χ^2 /NDF: 38871177.1/73

In: 2749.288 $\pm$ 0.399

χ^2 /NDF: 26280659.5/57

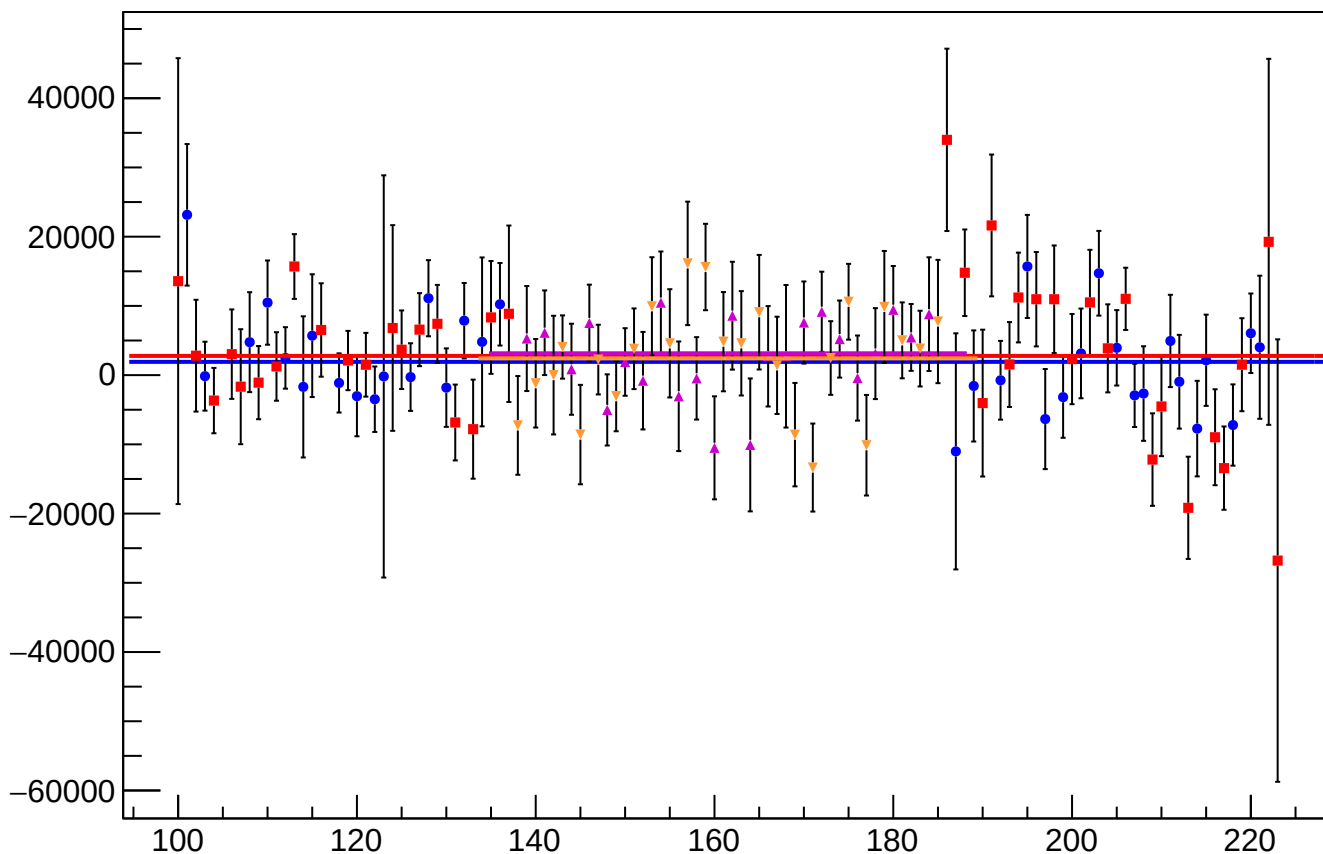
Out: 1896.349 $\pm$ 0.303

χ^2 /NDF: 38306501.6/63

All: 2209.085 $\pm$ 0.241

χ^2 /NDF: 67484315.4/1

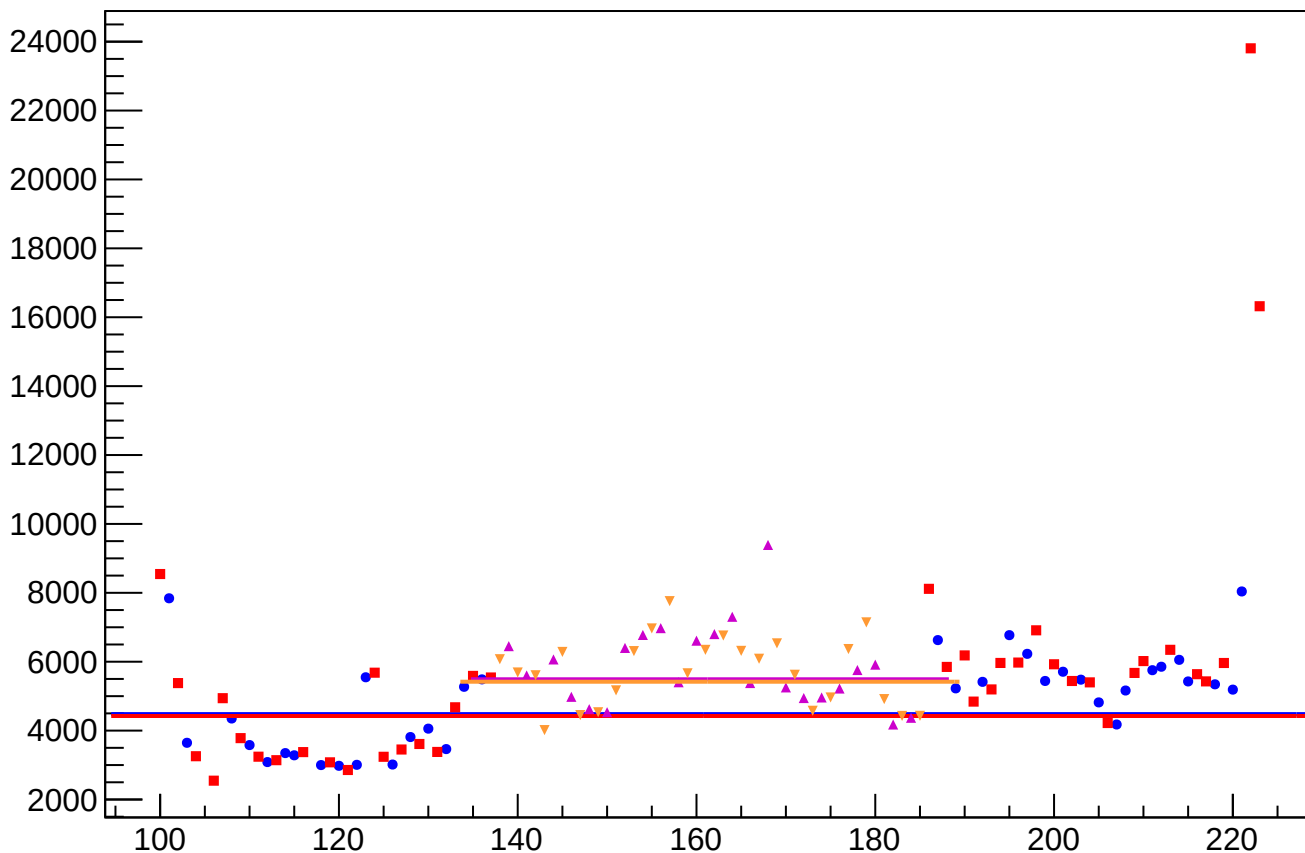
asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1916.223+/-1053.669 χ^2/NDF : 34.0/34
 Left Out: 2417.210+/-1286.482 χ^2/NDF : 29.9/24
 Right Out: 2775.676+/-1048.677 χ^2/NDF : 66.3/38
 Left In: 3153.449+/-1337.378 χ^2/NDF : 15.5/22

Left: 2771.054+/-927.151 χ^2/NDF : 45.5/47
 Right: 2347.990+/-743.285 χ^2/NDF : 100.7/73
 In: 2390.071+/-827.655 χ^2/NDF : 50.0/57
 Out: 2632.573+/-812.837 χ^2/NDF : 96.3/63
 All: 2513.513+/-579.931 χ^2/NDF : 146.3/121

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4478.778+/-0.745 χ^2/NDF : 2737506.4/34

Left Out: 5419.305+/-0.910 χ^2/NDF : 1109972.1/24

Right Out: 4424.273+/-0.736 χ^2/NDF : 4422421.5/38

Left In: 5489.885+/-0.946 χ^2/NDF : 1064353.3/22

Left: 5453.227+/-0.656 χ^2/NDF : 2177218.7/47

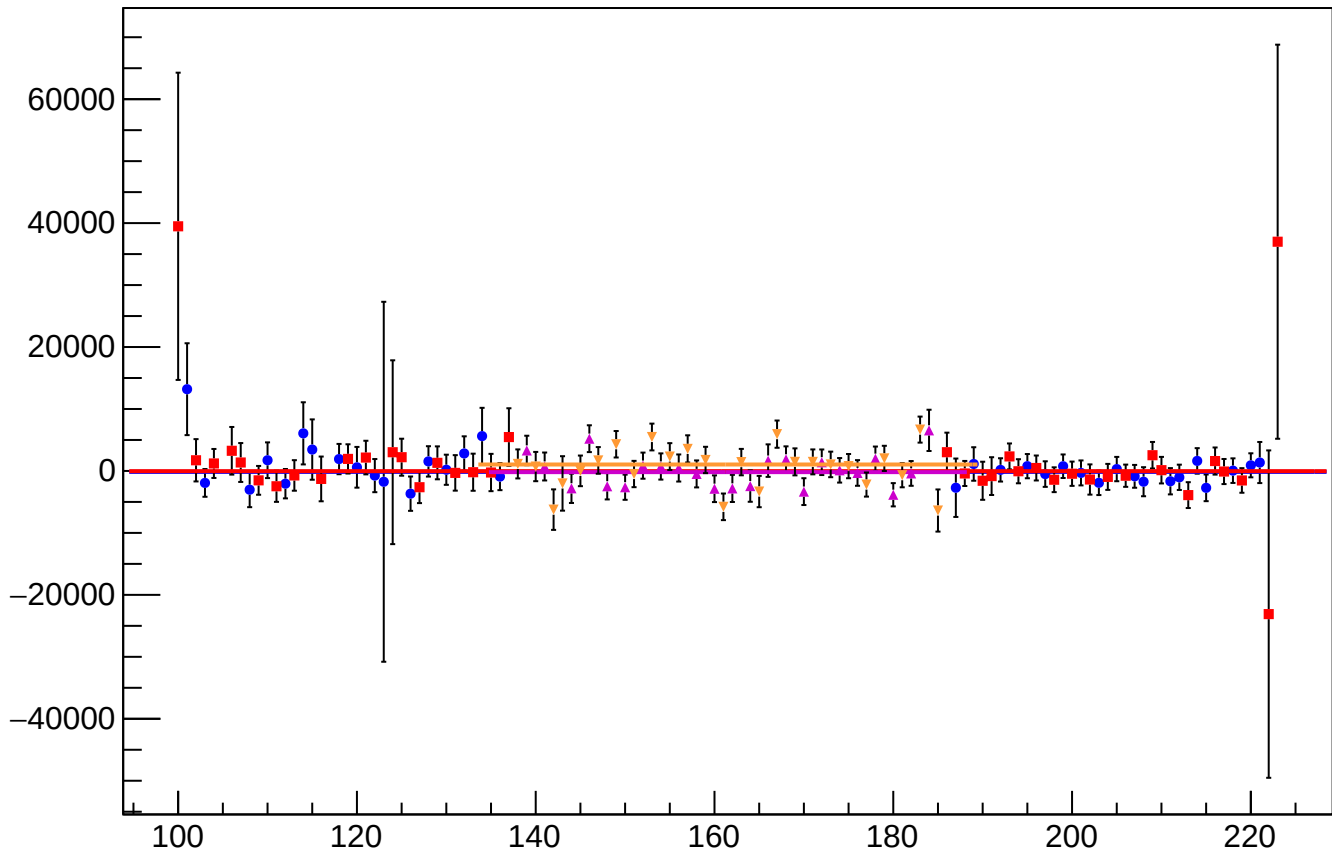
Right: 4451.174+/-0.523 χ^2/NDF : 7162638.3/73

In: 4866.023+/-0.585 χ^2/NDF : 4507214.9/57

Out: 4817.617+/-0.572 χ^2/NDF : 6255880.7/63

All: 4841.264+/-0.409 χ^2/NDF : 10766594.7/131

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -151.595 ± 408.939 χ^2/NDF : 19.8/34

Left Out: 1041.262 ± 446.249 χ^2/NDF : 48.6/24

Right Out: -34.815 ± 407.329 χ^2/NDF : 22.2/38

Left In: -191.966 ± 453.055 χ^2/NDF : 30.0/22

Left: 433.980 ± 317.925 χ^2/NDF : 82.3/47

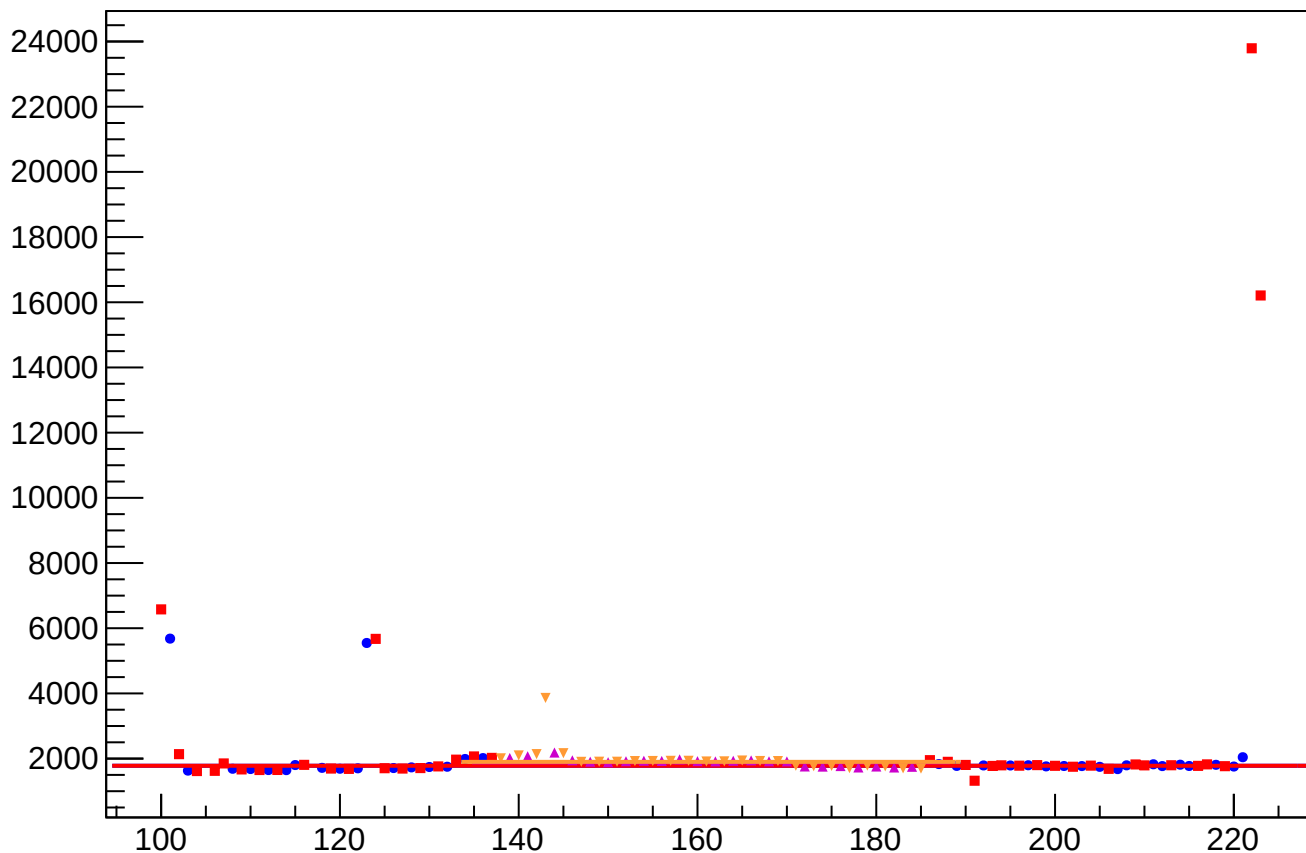
Right: -92.975 ± 288.593 χ^2/NDF : 42.0/73

In: -169.720 ± 303.565 χ^2/NDF : 49.8/57

Out: 454.260 ± 300.845 χ^2/NDF : 73.9/63

All: 145.078 ± 213.685 χ^2/NDF : 125.8/121

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1780.252+/-0.289 χ^2/NDF : 665251.8/34

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1780.480+/-0.287 χ^2/NDF : 2173531.0/38

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

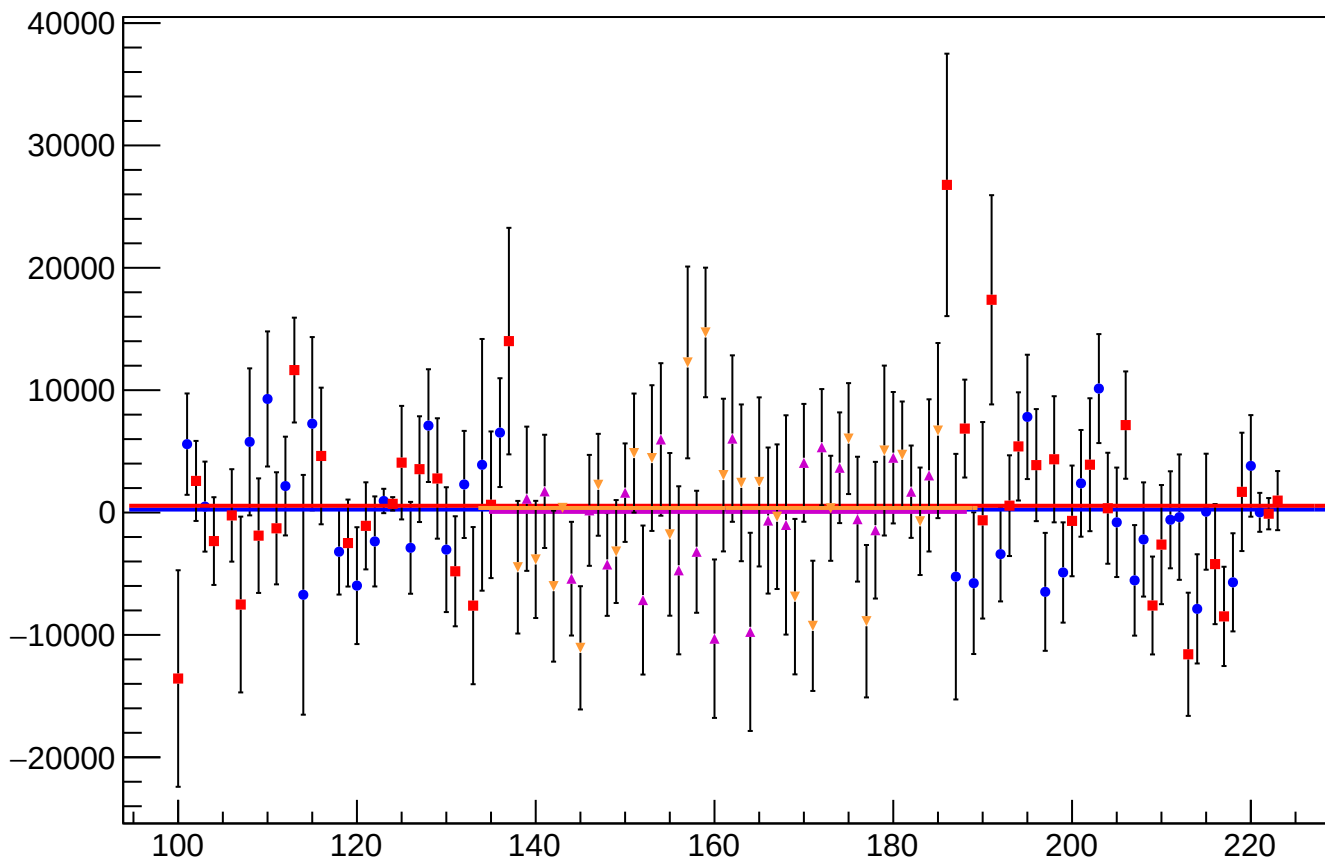
Right: 1780.367+/-0.204 χ^2/NDF : 2838783.1/73

In: 1827.897+/-0.215 χ^2/NDF : 849244.9/57

Out: 1834.790+/-0.212 χ^2/NDF : 2790246.5/63

All: 1831.380+/-0.151 χ^2/NDF : 3640012.3/12

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 243.487 $\pm$ 580.302 χ^2 /NDF: 37.7/34

Left Out: 373.277 $\pm$ 382.071 χ^2 /NDF:30.8/24

Right Out: 554.020 $\pm$ 417.160 χ^2 /NDF: 54.0/38

Left In: 53.099 $\pm$ 1089.888 χ^2 /NDF:14.5/22

Left: 338.236 $\pm$ 360.558 χ^2 /NDF: 45.4/47

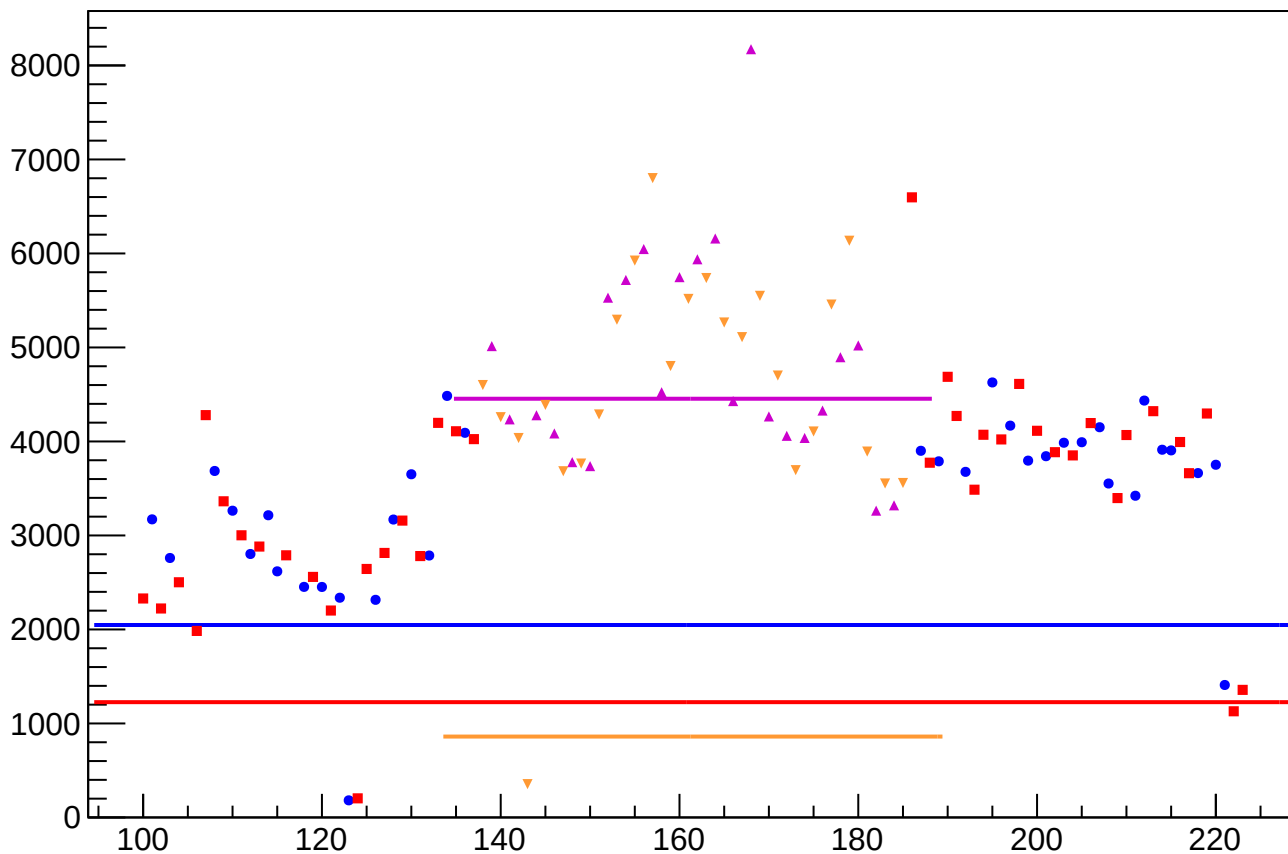
Right: 448.220 $\pm$ 338.721 χ^2 /NDF: 91.9/73

In: 201.434 $\pm$ 512.220 χ^2 /NDF:52.3/57

Out: 455.729 $\pm$ 281.755 χ^2 /NDF:84.9/63

All: 396.659 $\pm$ 246.871 χ^2 /NDF: 137.4/121

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 2047.439+/-0.410 χ^2/NDF : 14501788.7/34

Left Out: 860.545+/-0.270 χ^2/NDF : 26340106.5/24

Right Out: 1226.531+/-0.295 χ^2/NDF : 23628182.7/38

Left In: 4454.402+/-0.771 χ^2/NDF : 1349758.1/22

Left: 1253.867+/-0.255 χ^2/NDF : 47056303.3/47

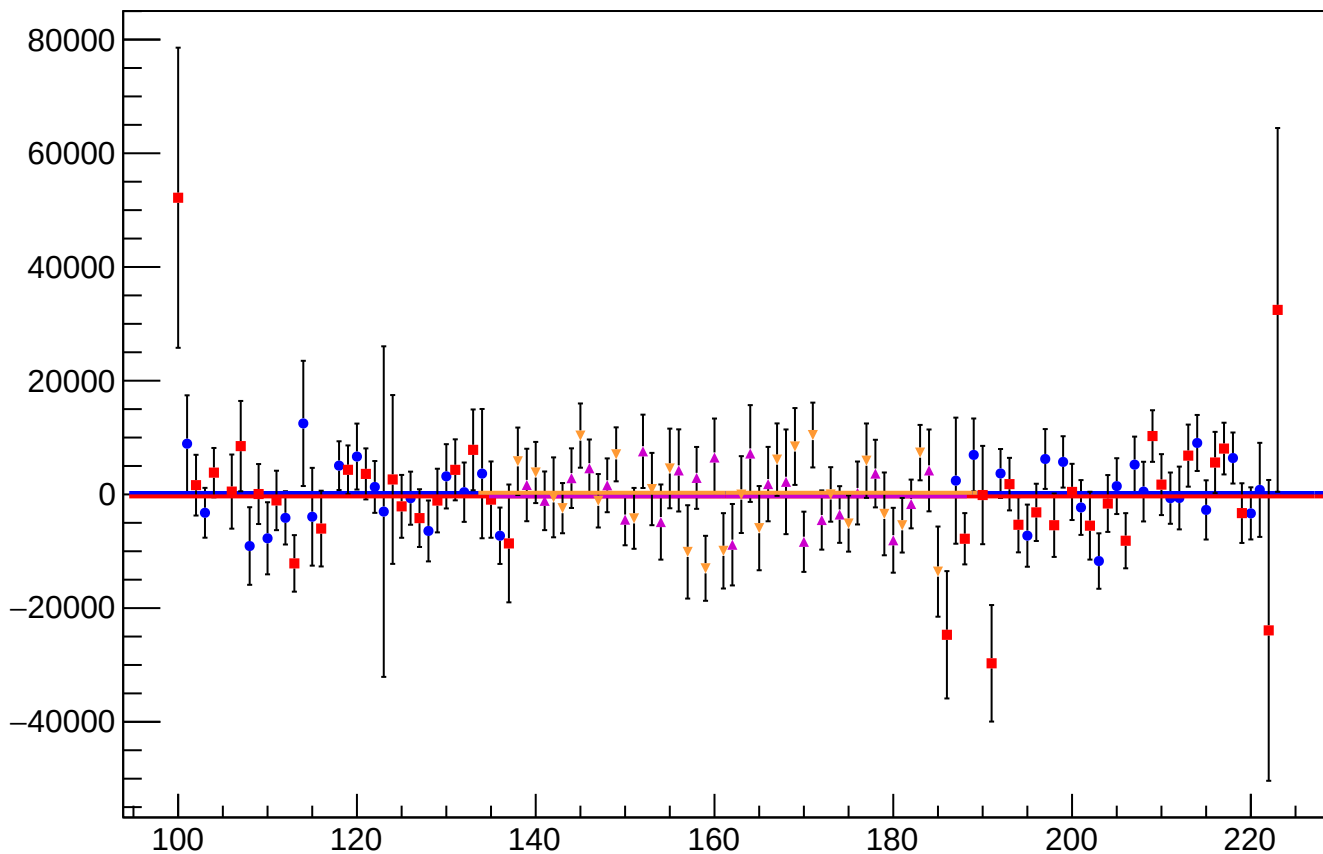
Right: 1506.218+/-0.240 χ^2/NDF : 40768677.2/73

In: 2579.081+/-0.362 χ^2/NDF : 23451507.6/57

Out: 1027.502+/-0.199 χ^2/NDF : 50805448.7/63

All: 1387.915+/-0.175 χ^2/NDF : 88345388.5/100

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 247.275 ± 916.283 χ^2/NDF : 34.1/34

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -351.961 ± 915.422 χ^2/NDF : 53.7/38

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

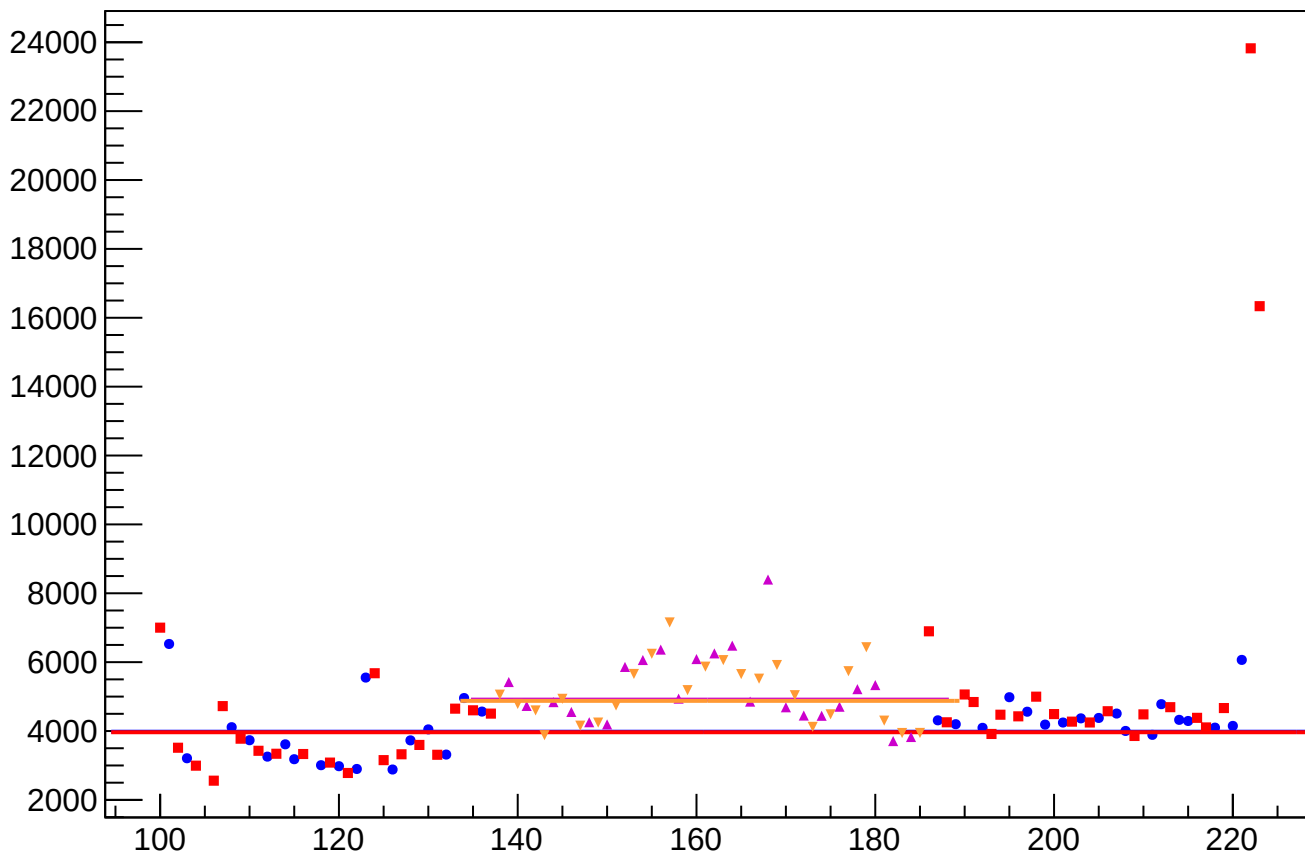
Right: -52.625 ± 647.605 χ^2/NDF : 88.0/73

In: 32.847 ± 727.361 χ^2/NDF : 48.9/57

Out: -104.969 ± 717.516 χ^2/NDF : 86.3/63

All: -37.000 ± 510.806 χ^2/NDF : 135.3/121

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3979.707+/-0.648

χ^2/NDF : 1129854.6/34

Left Out: 4876.564+/-0.817

χ^2/NDF : 972528.1/24

Right Out: 3965.138+/-0.643

χ^2/NDF : 2686727.4/38

Left In: 4911.546+/-0.846

χ^2/NDF : 1043164.6/22

Left: 4893.451+/-0.588 χ^2/NDF : 2016577.8/47

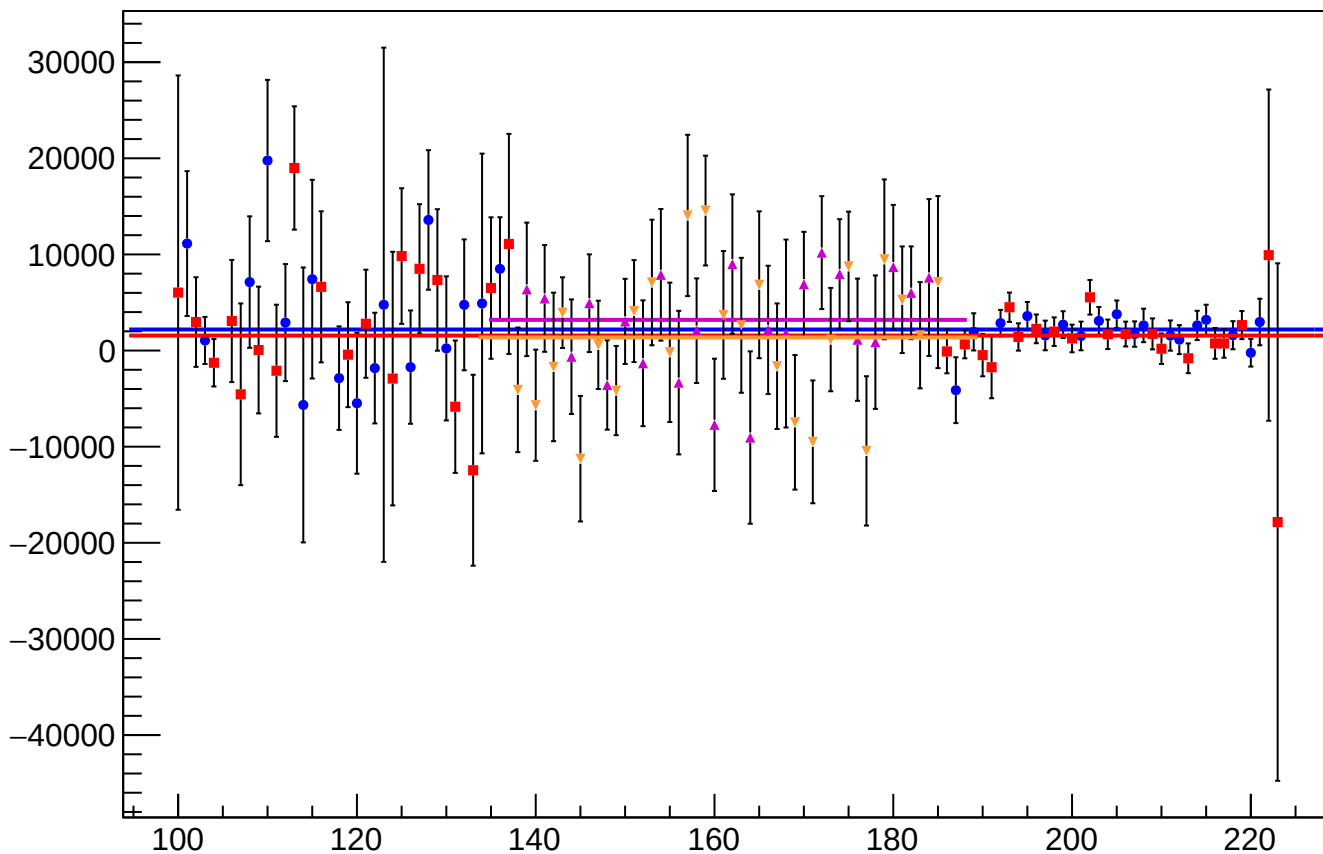
Right: 3972.370+/-0.456 χ^2/NDF : 3816836.5/73

In: 4324.350+/-0.514 χ^2/NDF : 2938058.9/57

Out: 4313.940+/-0.505 χ^2/NDF : 4427483.7/63

All: 4319.054+/-0.360 χ^2/NDF : 7365751.0/12

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2189.542 $\pm$ 356.298 χ^2 /NDF: 25.2/34

Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24

Right Out: 1560.241 $\pm$ 361.643 χ^2 /NDF: 34.5/38

Left In: 3191.160 $\pm$ 1270.021 χ^2 /NDF:14.0/22

Left: 2231.138 $\pm$ 874.630 χ^2 /NDF: 43.0/47

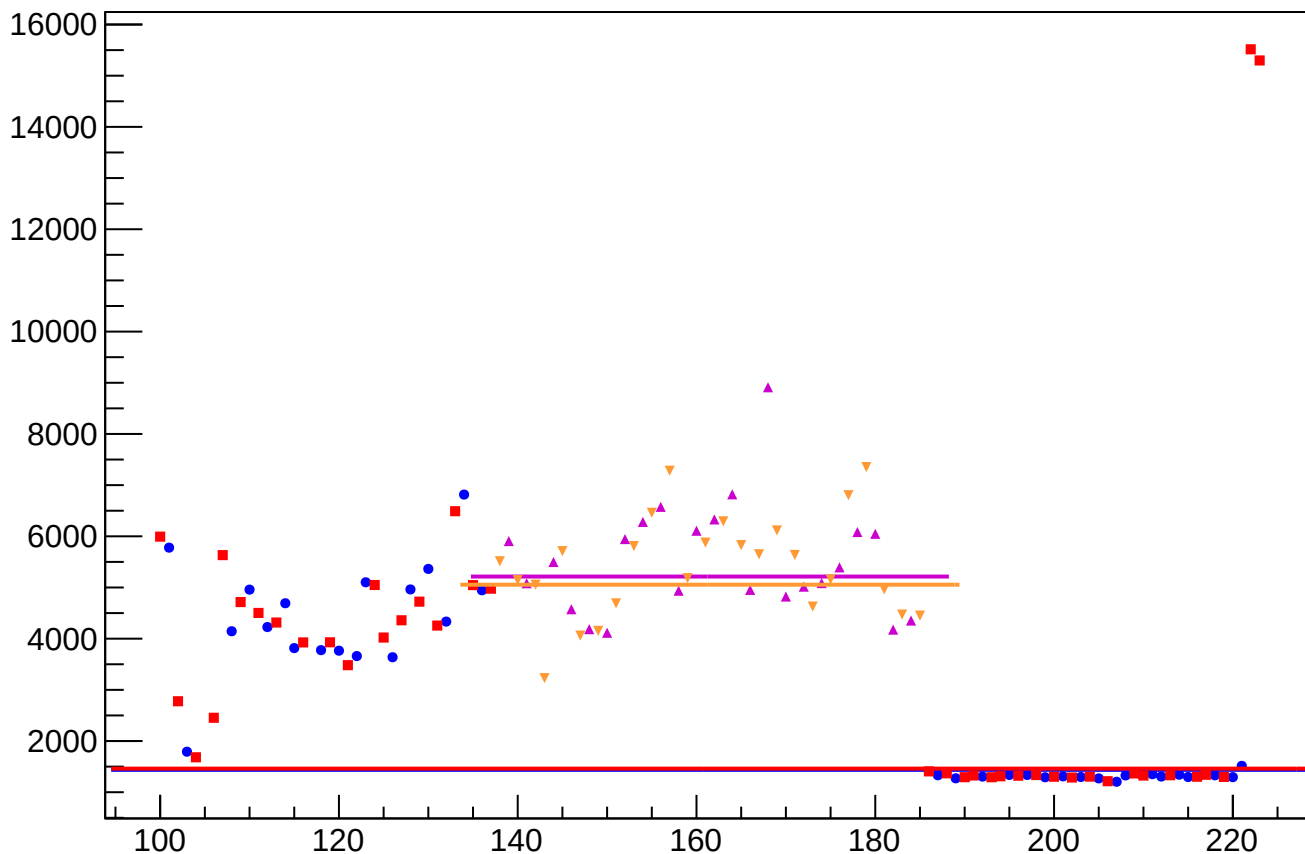
Right: 1879.576 $\pm$ 253.809 χ^2 /NDF: 61.2/73

In: 2262.623 $\pm$ 343.053 χ^2 /NDF:39.8/57

Out: 1544.146 $\pm$ 346.410 χ^2 /NDF:62.5/63

All: 1906.882 $\pm$ 243.753 χ^2 /NDF: 104.4/121

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1437.380+/-0.252 χ^2/NDF : 5949774.1/34

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 1461.127+/-0.256 χ^2/NDF : 7726565.8/38

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

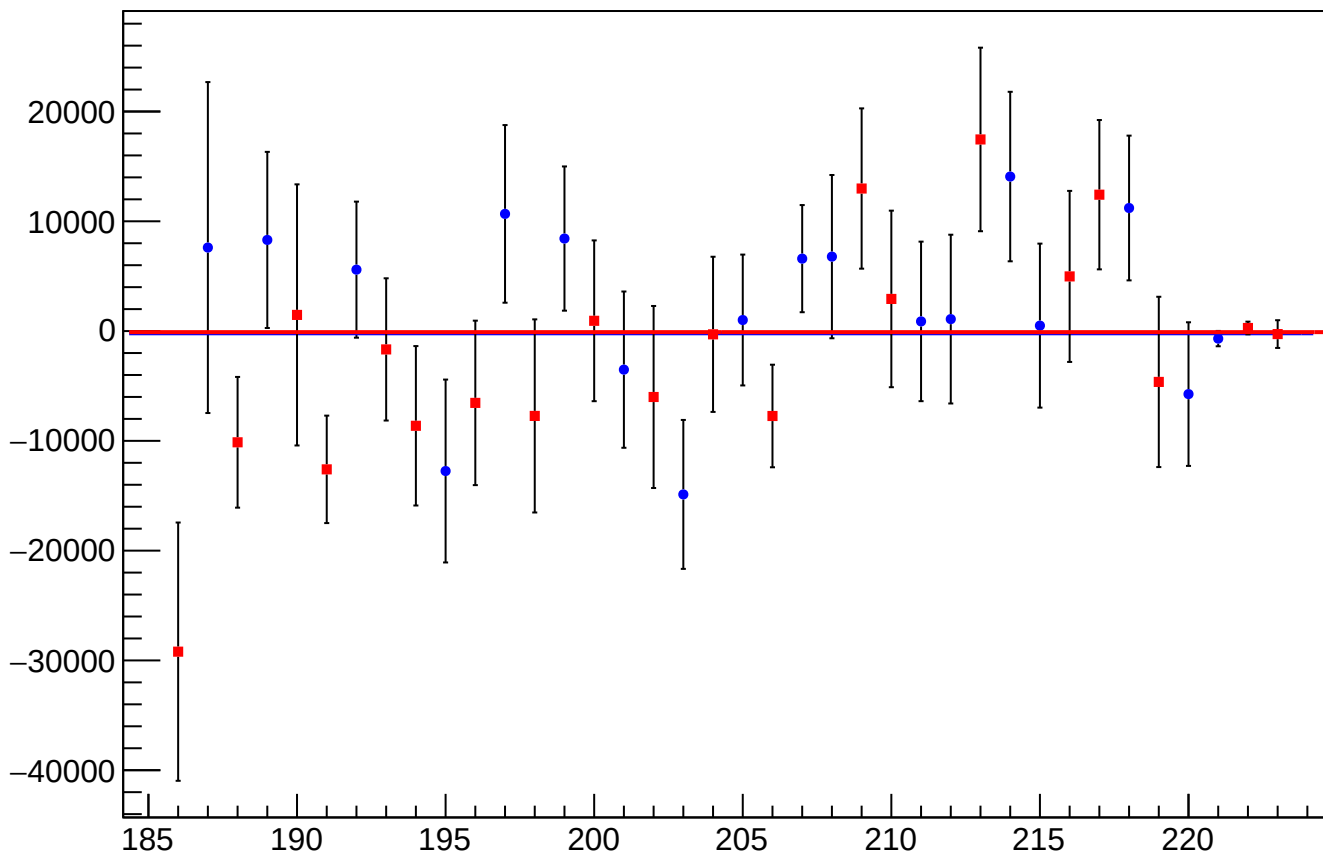
Right: 1449.084+/-0.179 χ^2/NDF : 13680718.6/73

In: 1712.941+/-0.243 χ^2/NDF : 23398332.3/57

Out: 1757.141+/-0.245 χ^2/NDF : 25451667.7/63

All: 1734.839+/-0.172 χ^2/NDF : 48866448.8/120

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: -201.175+/-646.437 χ^2/NDF : 23.5/17

Left Out: 0.000+/-0.000 χ^2/NDF :0.0/0

Right Out: -96.441+/-501.461 χ^2/NDF : 34.0/19

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

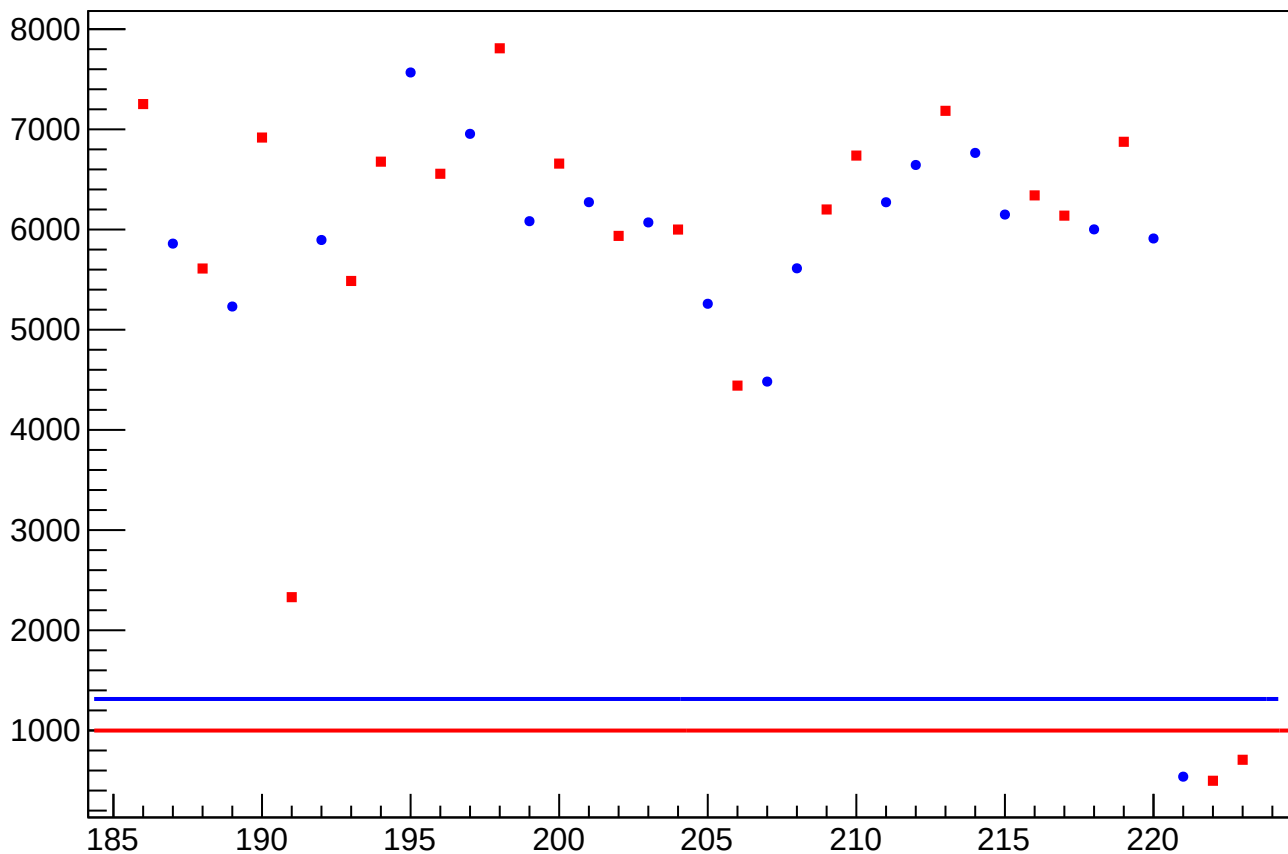
Right: -135.788+/-396.222 χ^2/NDF : 57.5/37

In: -201.175+/-646.437 χ^2/NDF :23.5/17

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: -135.788+/-396.222 χ^2/NDF : 57.5/37

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 1314.140+/-0.457 χ^2/NDF : 17436987.6/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 999.051+/-0.355 χ^2/NDF : 18850618.1/19

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

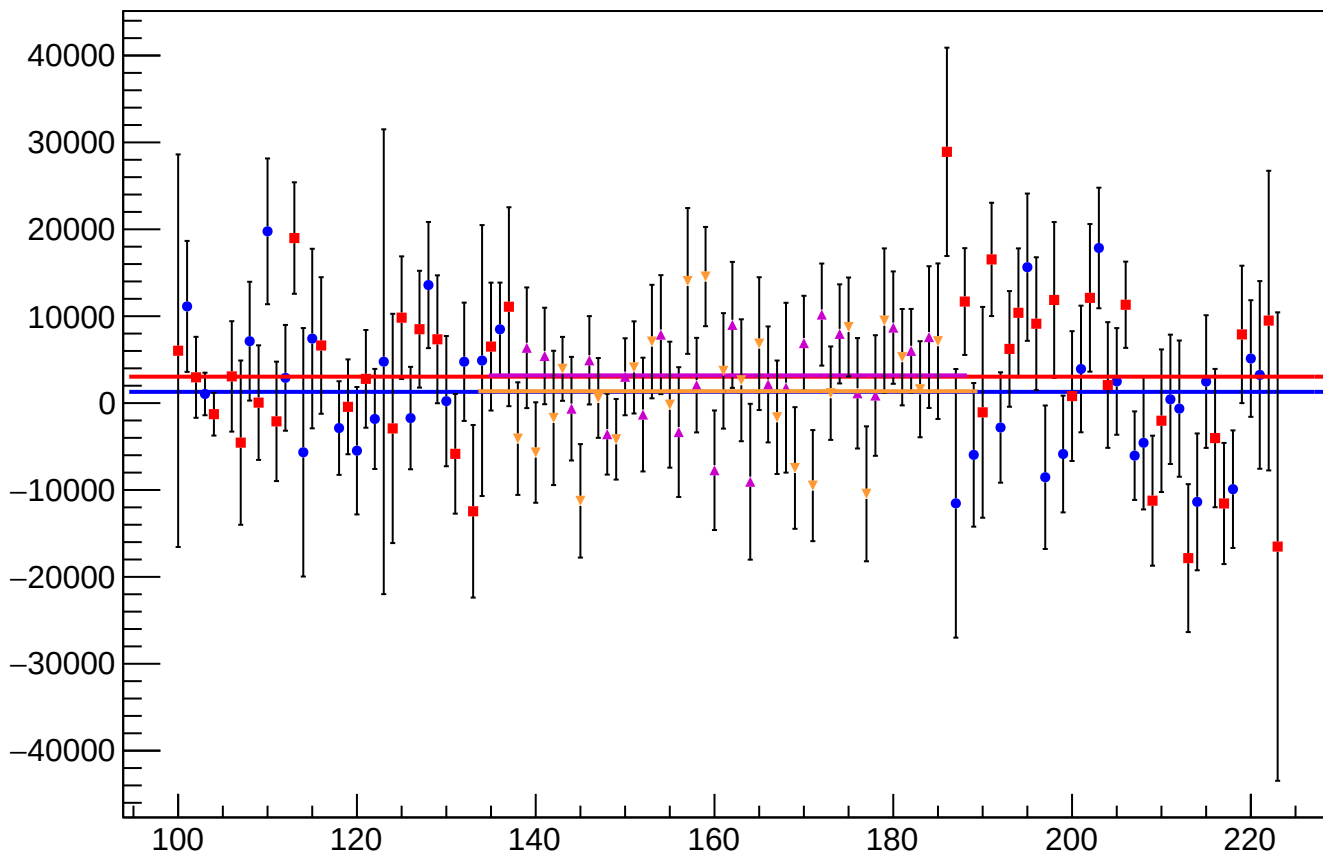
Right: 1117.425+/-0.280 χ^2/NDF : 36584258.9/37

In: 1314.140+/-0.457 χ^2/NDF : 17436987.6/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1117.425+/-0.280 χ^2/NDF : 36584258.9/37

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1292.288 $\pm$ 1112.473 χ^2 /NDF: 36.6/34

Left Out: 1365.082 $\pm$ 1206.268 χ^2 /NDF:28.0/24

Right Out: 3040.334 $\pm$ 1083.829 χ^2 /NDF: 52.4/38

Left In: 3191.160 $\pm$ 1270.021 χ^2 /NDF:14.0/22

Left: 2231.138 $\pm$ 874.630 χ^2 /NDF: 43.0/47

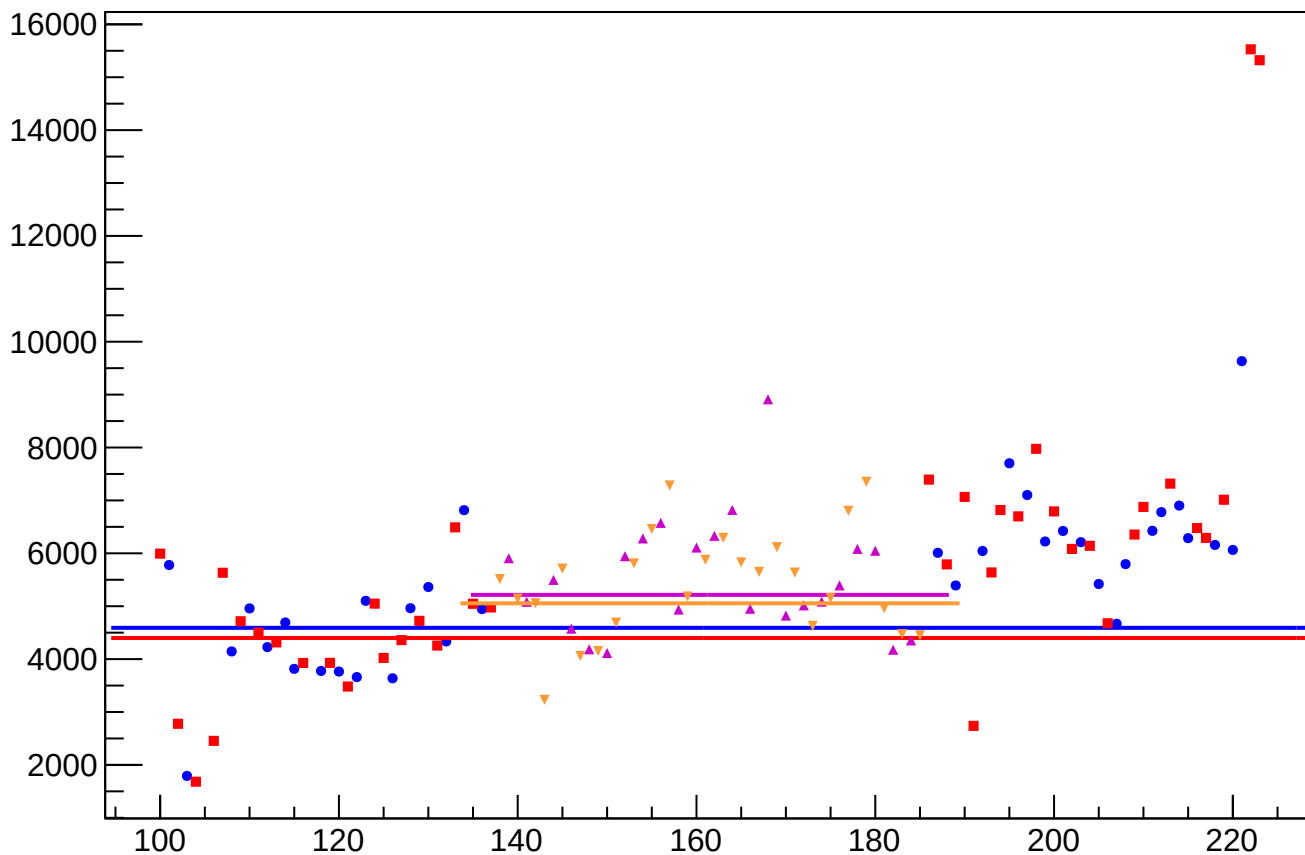
Right: 2189.105 $\pm$ 776.312 χ^2 /NDF: 90.2/73

In: 2116.702 $\pm$ 836.828 χ^2 /NDF:51.8/57

Out: 2292.019 $\pm$ 806.206 χ^2 /NDF:81.4/63

All: 2207.627 $\pm$ 580.597 χ^2 /NDF: 133.2/121

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4591.400+/-0.787 χ^2/NDF : 5172484.0/34

Left Out: 5054.711+/-0.853 χ^2/NDF : 1437224.7/24

Right Out: 4399.697+/-0.762 χ^2/NDF : 7040090.6/38

Left In: 5214.120+/-0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314+/-0.618 χ^2/NDF : 2506291.2/47

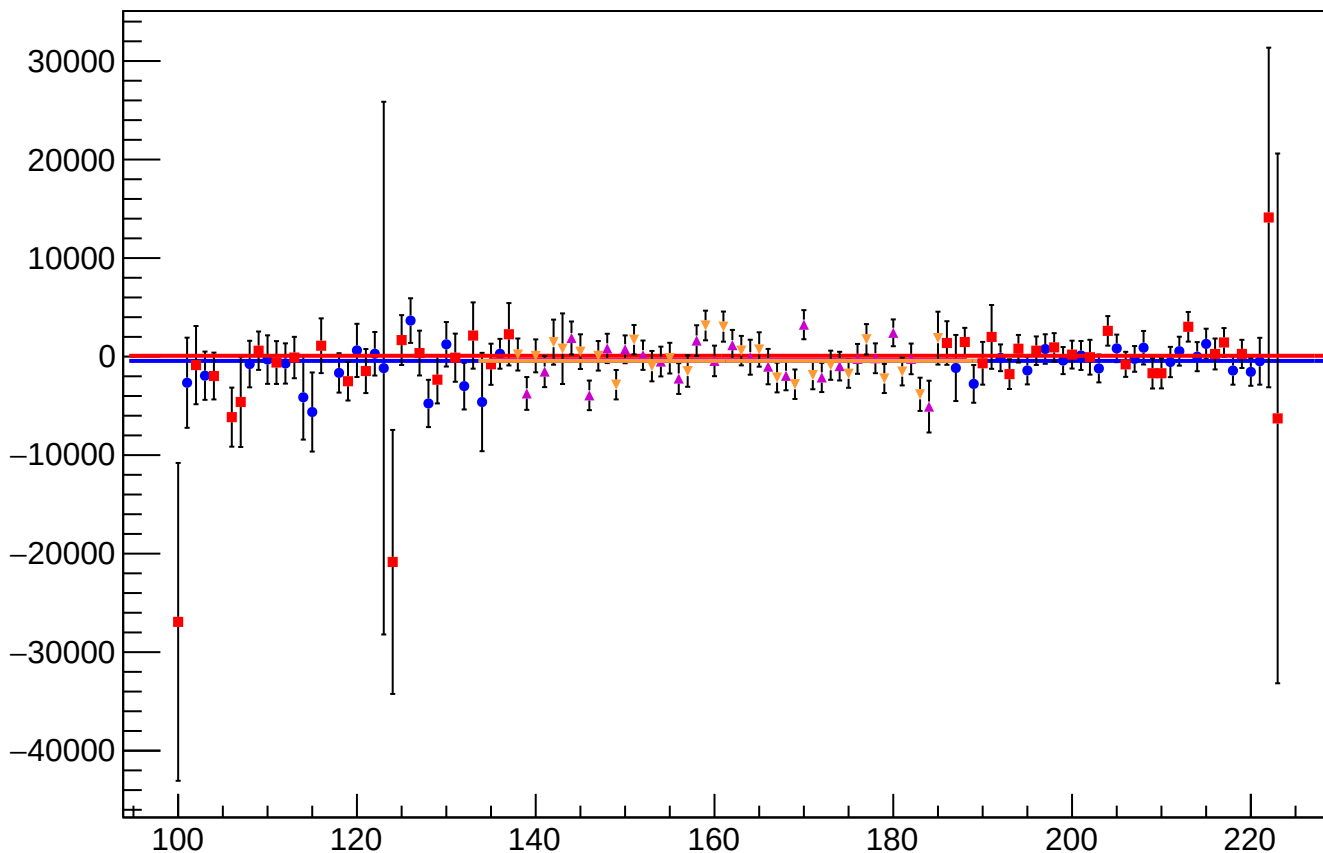
Right: 4492.506+/-0.547 χ^2/NDF : 12243212.8/73

In: 4861.756+/-0.592 χ^2/NDF : 6497062.7/57

Out: 4690.445+/-0.568 χ^2/NDF : 8805269.1/63

All: 4772.640+/-0.410 χ^2/NDF : 15345934.0/130

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -436.629+/-309.422 χ^2/NDF : 20.3/34

Left Out: -431.715+/-320.540 χ^2/NDF :33.1/24

Right Out: 81.672+/-312.459 χ^2/NDF : 31.8/38

Left In: -343.737+/-324.368 χ^2/NDF :33.8/22

Left: -388.248+/-227.997 χ^2/NDF : 66.9/47

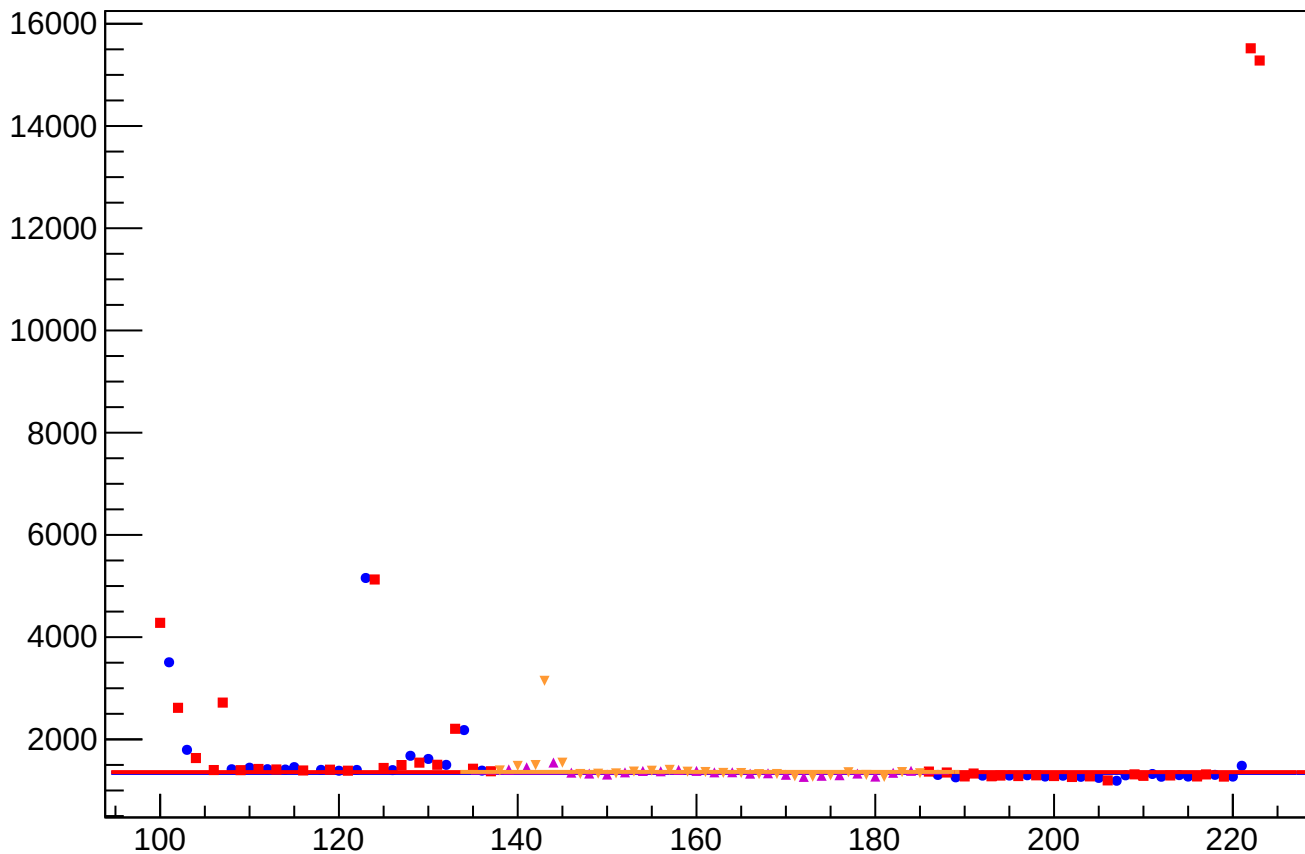
Right: -180.009+/-219.860 χ^2/NDF : 53.6/73

In: -392.372+/-223.892 χ^2/NDF :54.2/57

Out: -168.468+/-223.744 χ^2/NDF :66.2/63

All: -280.346+/-158.263 χ^2/NDF : 120.9/121

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1343.338+/-0.219 χ^2/NDF : 795291.2/34

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1359.400+/-0.221 χ^2/NDF : 2777077.0/38

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

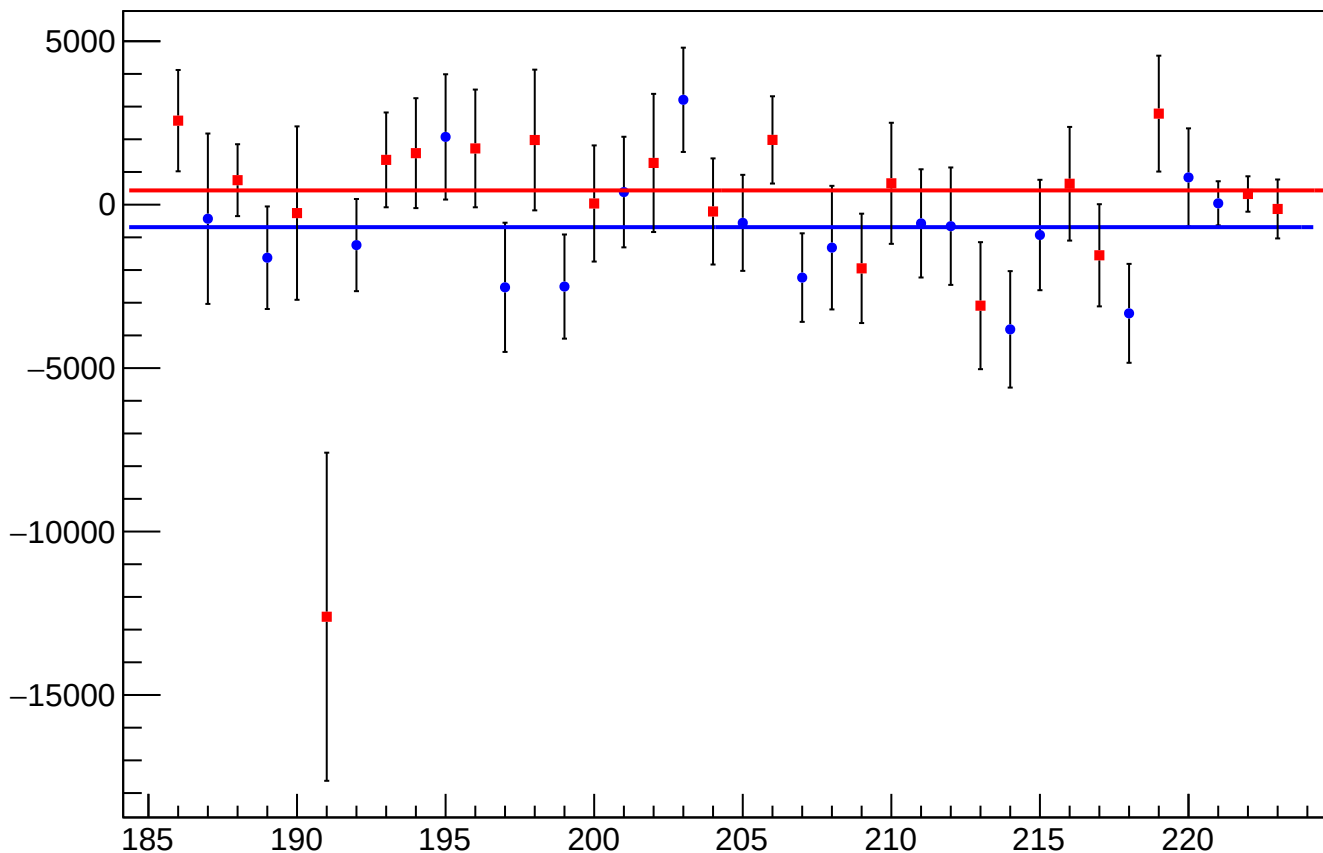
Right: 1351.291+/-0.155 χ^2/NDF : 3575036.8/73

In: 1346.945+/-0.158 χ^2/NDF : 863006.2/57

Out: 1361.428+/-0.158 χ^2/NDF : 3352476.4/63

All: 1354.191+/-0.112 χ^2/NDF : 4219669.8/12

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -687.993+/-344.549 χ^2/NDF : 20.9/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 435.847+/-303.287 χ^2/NDF : 21.6/19

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

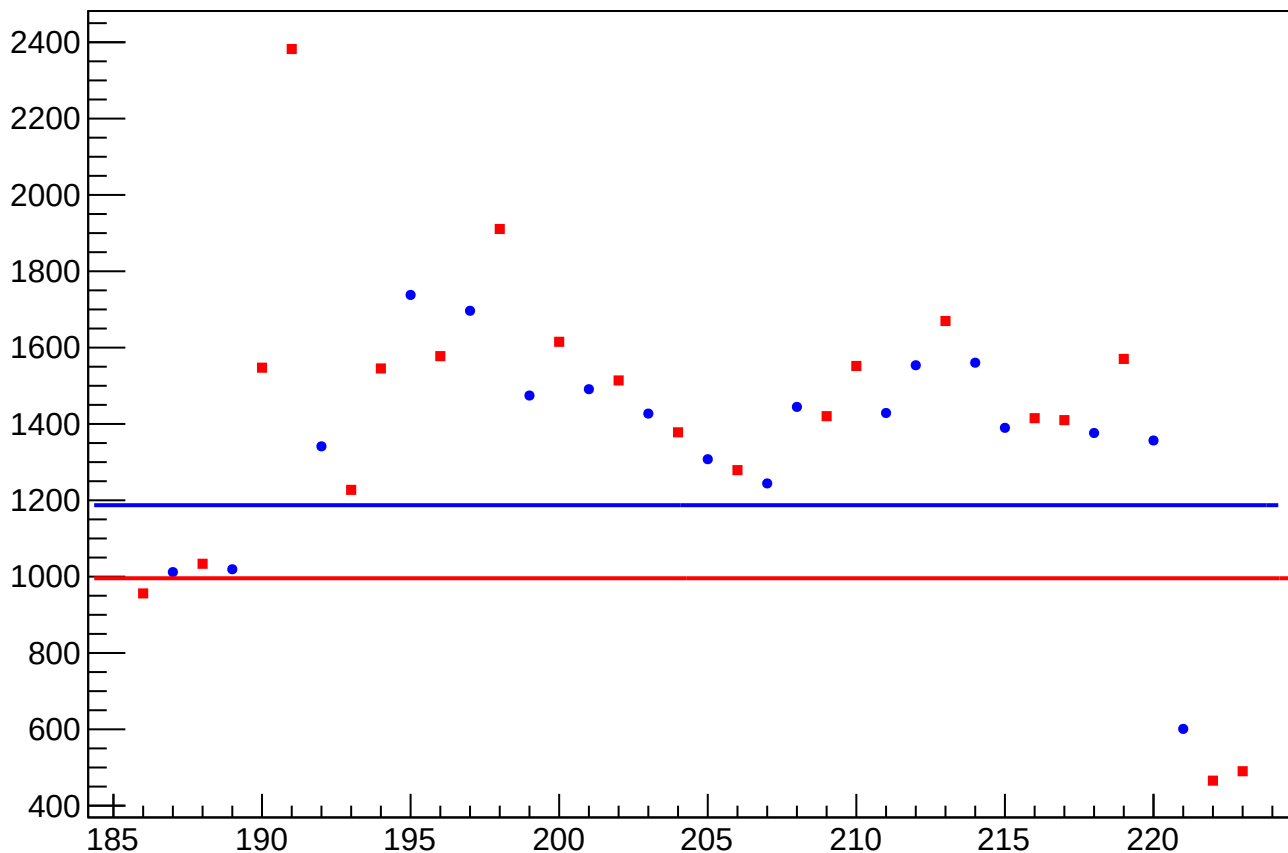
Right: -54.783+/-227.654 χ^2/NDF : 48.4/37

In: -687.993+/-344.549 χ^2/NDF : 20.9/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -54.783+/-227.654 χ^2/NDF : 48.4/37

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1187.183+/-0.244 χ^2/NDF : 2388302.5/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 995.783+/-0.214 χ^2/NDF : 5204815.7/19

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

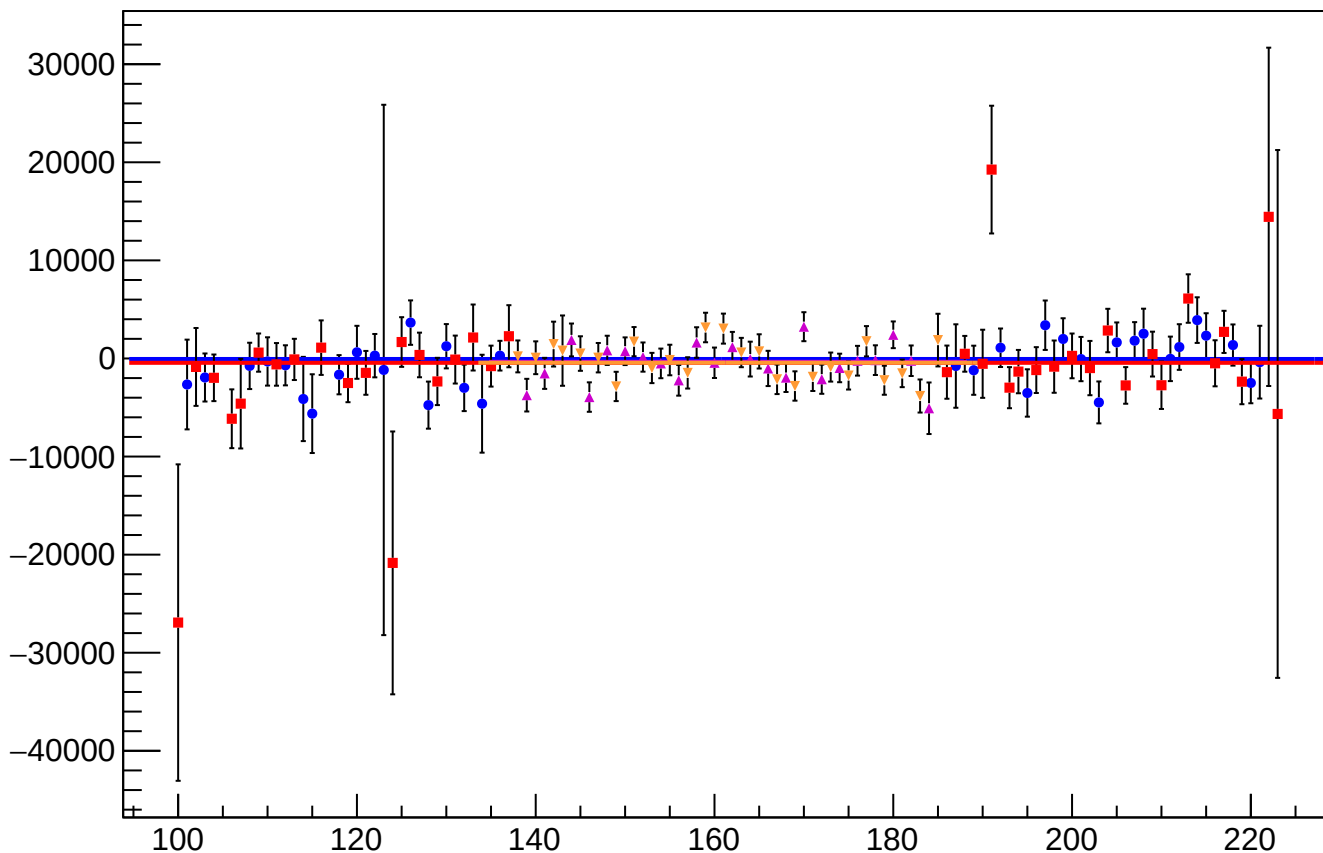
Right: 1079.342+/-0.161 χ^2/NDF : 7940860.9/37

In: 1187.183+/-0.244 χ^2/NDF : 2388302.5/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1079.342+/-0.161 χ^2/NDF : 7940860.9/37

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -51.927 $\pm$ 403.862 χ^2 /NDF: 32.5/34

Left Out: -431.715 $\pm$ 320.540 χ^2 /NDF:33.1/24

Right Out: -443.972 $\pm$ 406.891 χ^2 /NDF: 41.5/38

Left In: -343.737 $\pm$ 324.368 χ^2 /NDF:33.8/22

Left: -388.248 $\pm$ 227.997 χ^2 /NDF: 66.9/47

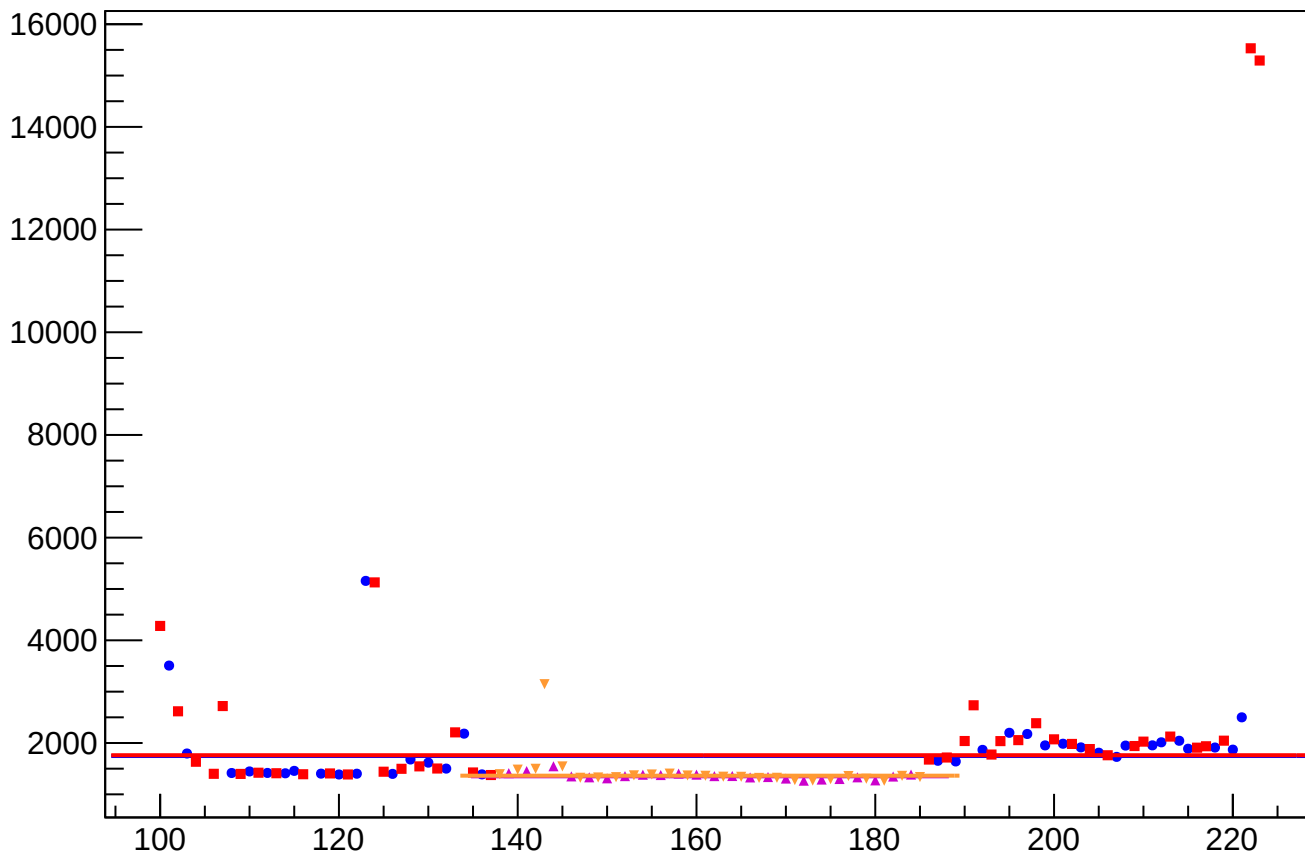
Right: -246.485 $\pm$ 286.639 χ^2 /NDF: 74.4/73

In: -229.311 $\pm$ 252.898 χ^2 /NDF:66.6/57

Out: -436.408 $\pm$ 251.794 χ^2 /NDF:74.6/63

All: -333.313 $\pm$ 178.434 χ^2 /NDF: 141.5/121

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1746.410 $\pm$ 0.286 χ^2/NDF : 1213984.4/34

Left Out: 1363.561 $\pm$ 0.227 χ^2/NDF : 575226.6/24

Right Out: 1762.031 $\pm$ 0.288 χ^2/NDF : 3137074.4/38

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

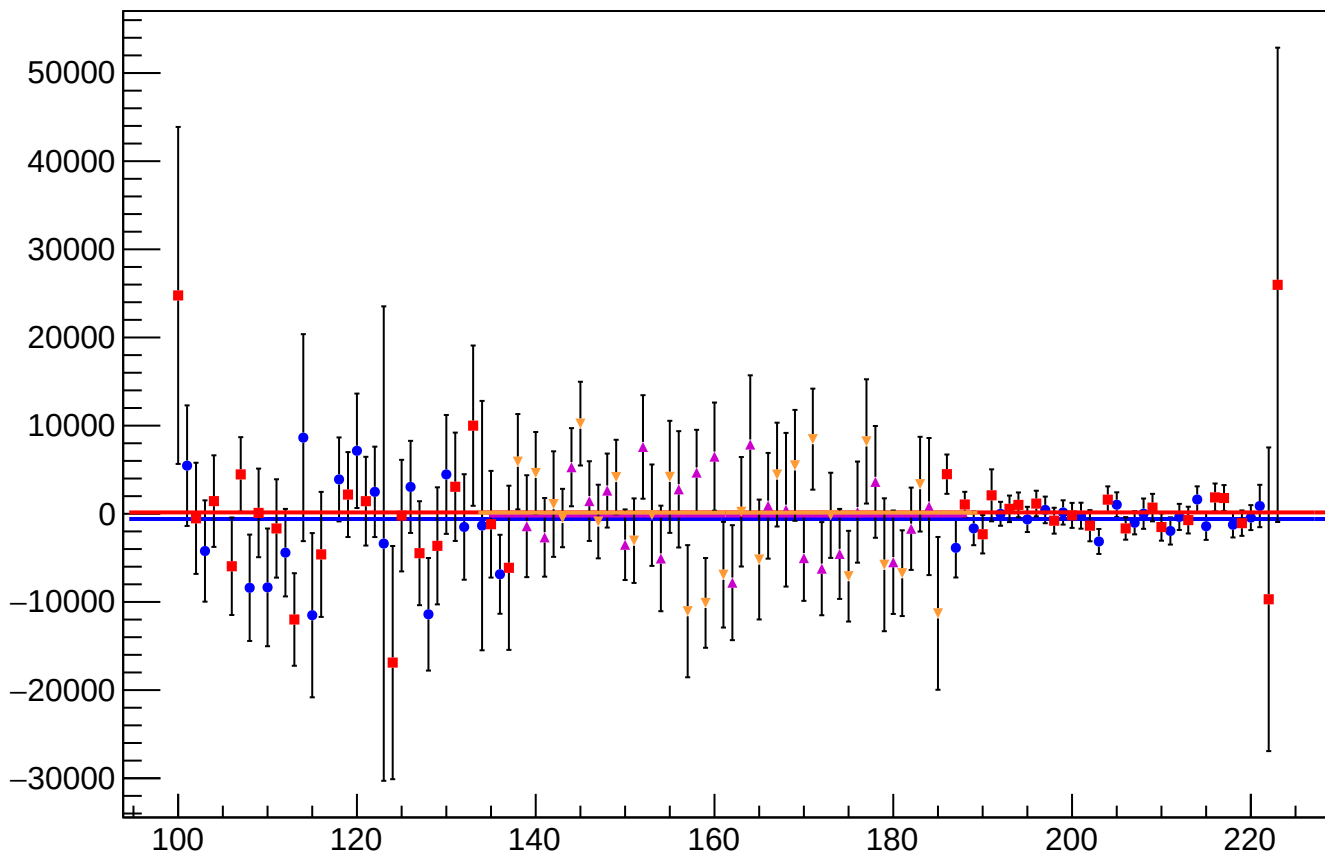
Right: 1754.162 $\pm$ 0.203 χ^2/NDF : 4352543.8/73

In: 1505.995 $\pm$ 0.179 χ^2/NDF : 2447064.5/57

Out: 1516.153 $\pm$ 0.178 χ^2/NDF : 4895871.0/63

All: 1511.097 $\pm$ 0.126 χ^2/NDF : 7344555.9/12

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -590.544+/-351.916 χ^2/NDF : 26.3/34

Left Out: 132.142+/-1065.543 χ^2/NDF : 28.1/24

Right Out: 154.626+/-355.868 χ^2/NDF : 31.6/38

Left In: -200.182+/-1123.499 χ^2/NDF : 14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

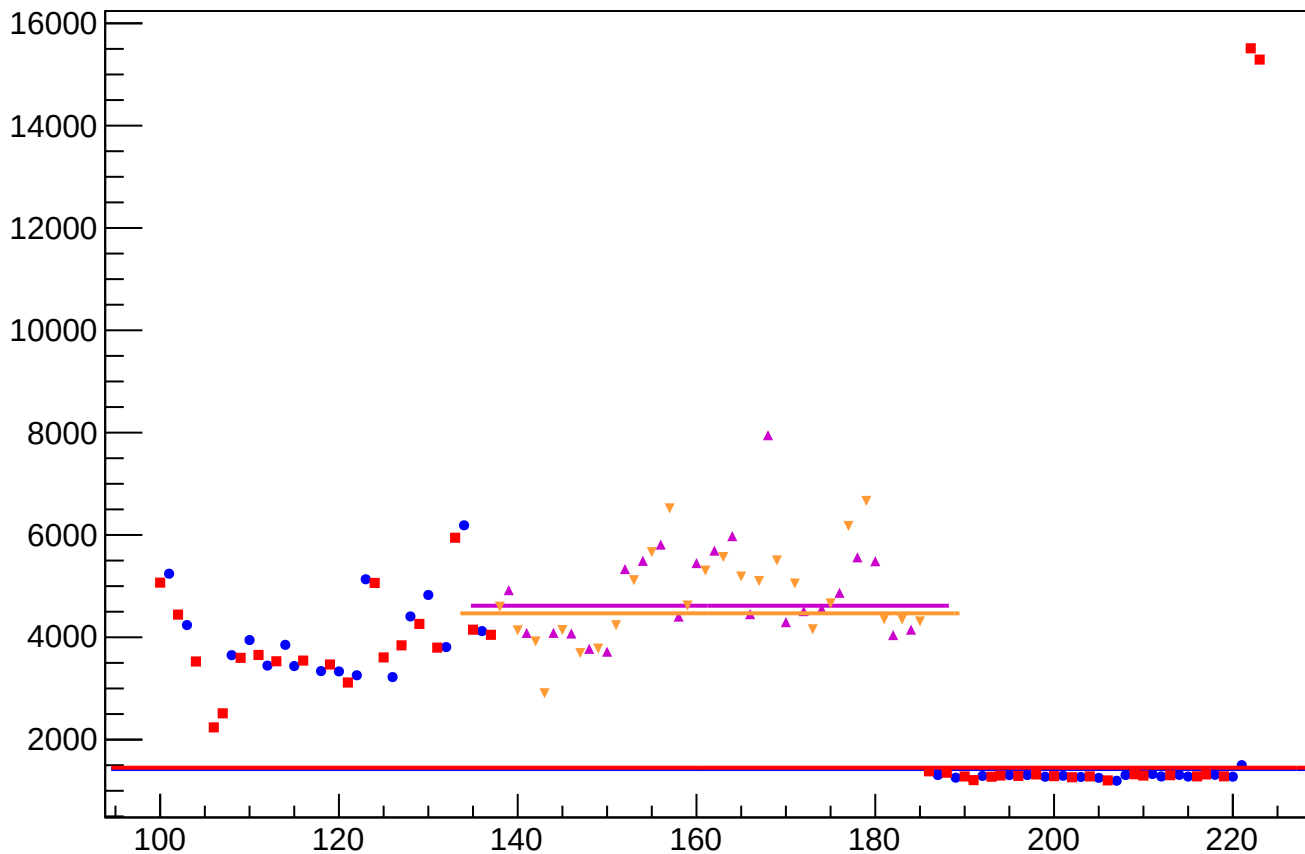
Right: -222.120+/-250.228 χ^2/NDF : 60.1/73

In: -555.666+/-335.826 χ^2/NDF : 41.2/57

Out: 152.369+/-337.541 χ^2/NDF : 59.7/63

All: -203.451+/-238.069 χ^2/NDF : 103.0/121

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1425.244+/-0.249 χ^2/NDF : 5732639.3/34

Left Out: 4468.520+/-0.753 χ^2/NDF : 1380601.0/24

Right Out: 1451.136+/-0.251 χ^2/NDF : 7416865.5/38

Left In: 4617.293+/-0.794 χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

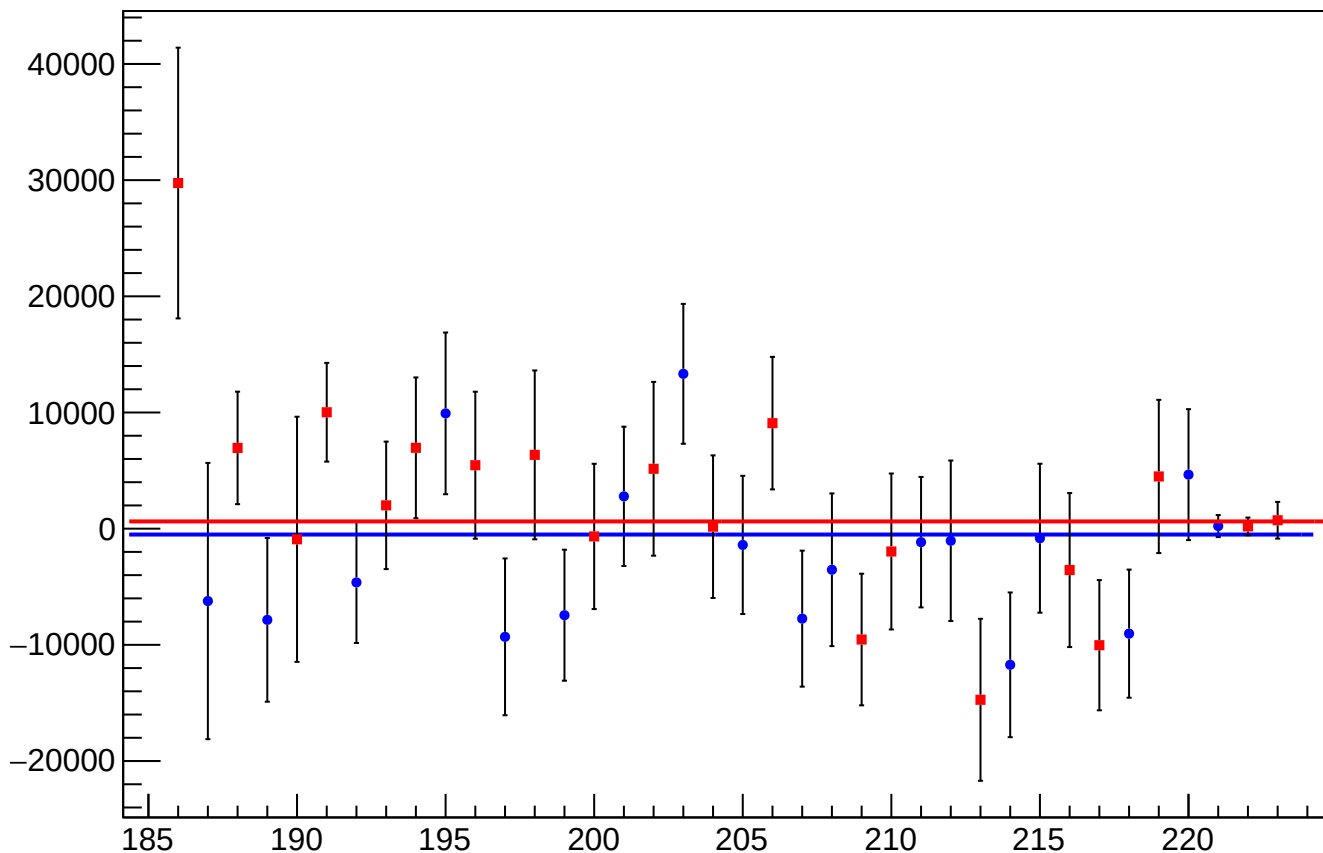
Right: 1438.053+/-0.177 χ^2/NDF : 13154861.3/73

In: 1710.446+/-0.237 χ^2/NDF : 21434231.2/57

Out: 1753.591+/-0.239 χ^2/NDF : 23227822.3/63

All: 1731.921+/-0.168 χ^2/NDF : 44678484.7/100

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -505.657+/-800.411 χ^2/NDF : 21.8/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 624.272+/-621.398 χ^2/NDF : 30.7/19

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

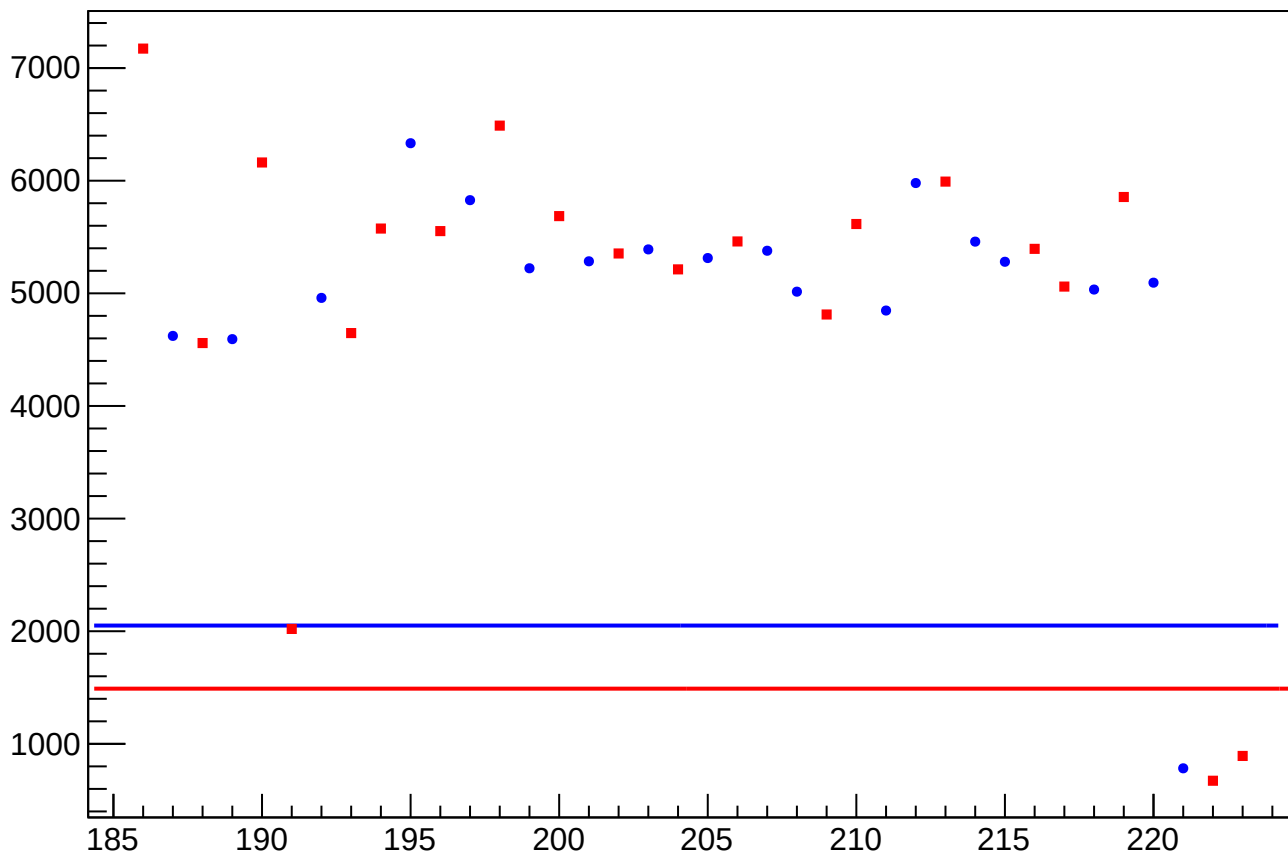
Right: 199.351+/-490.842 χ^2/NDF : 53.8/37

In: -505.657+/-800.411 χ^2/NDF : 21.8/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 199.351+/-490.842 χ^2/NDF : 53.8/37

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 2050.321+/-0.566 χ^2/NDF : 12862178.6/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1490.134+/-0.439 χ^2/NDF : 15425305.3/19

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

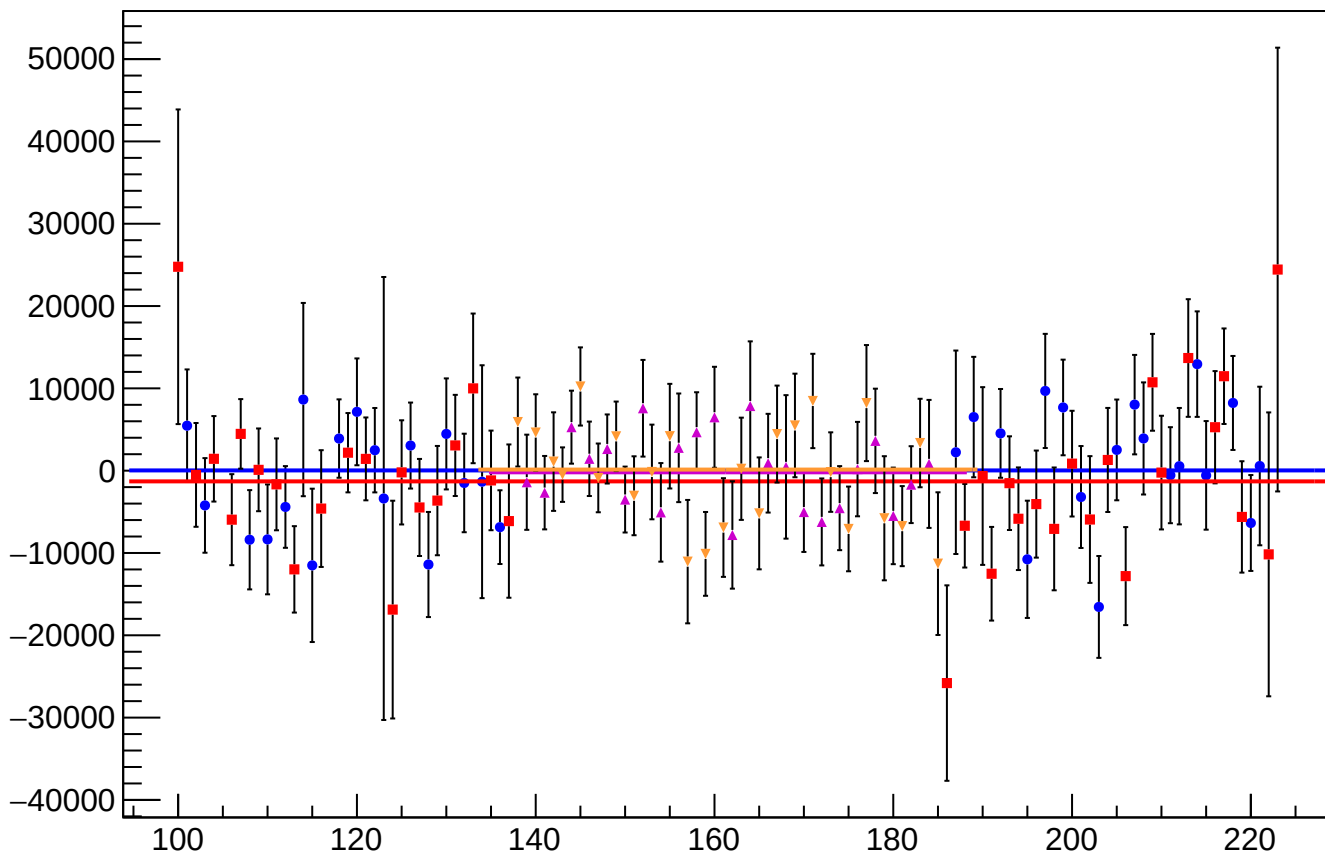
Right: 1700.798+/-0.347 χ^2/NDF : 28898724.5/37

In: 2050.321+/-0.566 χ^2/NDF : 12862178.6/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1700.798+/-0.347 χ^2/NDF : 28898724.5/37

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: 30.214+/-1078.709 χ^2/NDF : 40.6/34

Left Out: 132.142+/-1065.543 χ^2/NDF :28.1/24

Right Out: -1301.283+/-1026.582 χ^2/NDF : 45.1/38

Left In: -200.182+/-1123.499 χ^2/NDF :14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

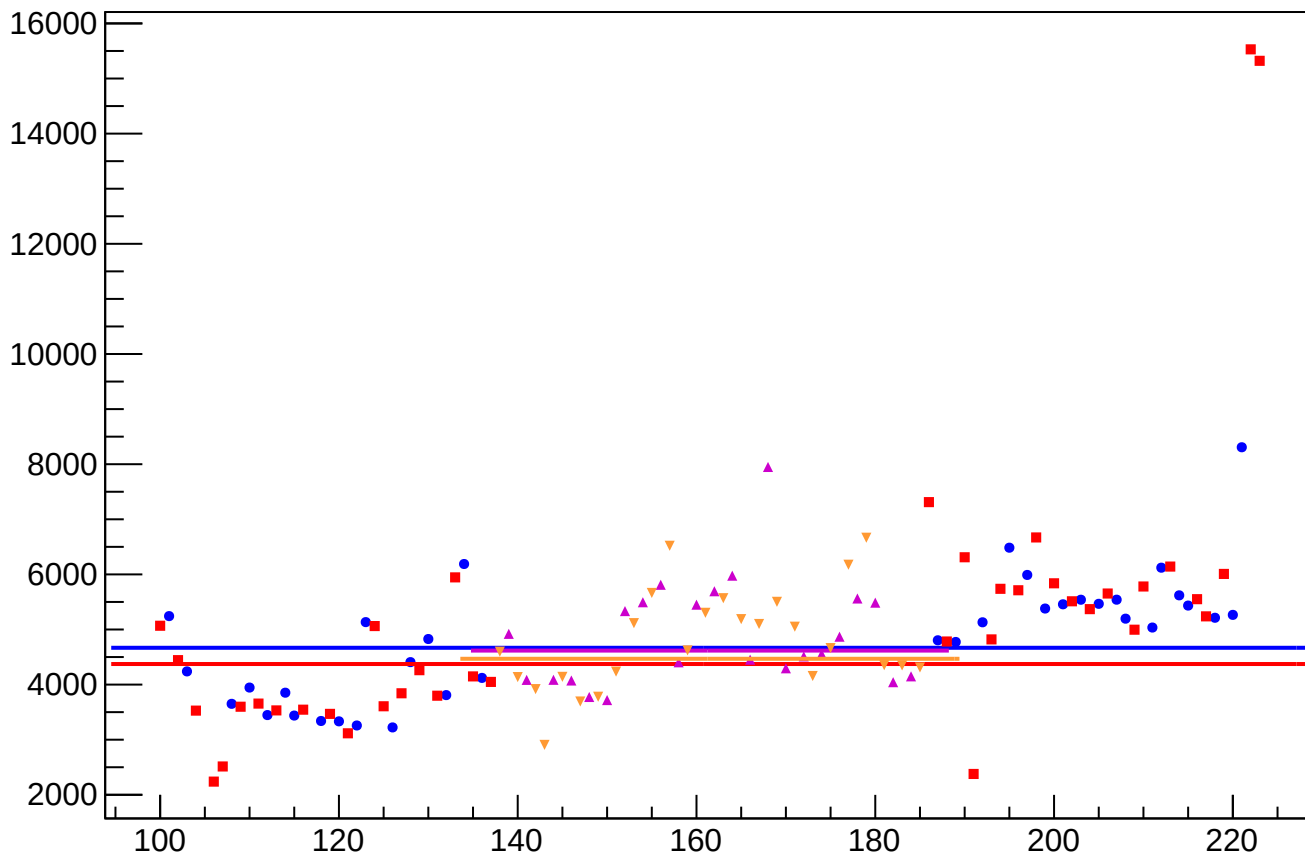
Right: -668.482+/-743.648 χ^2/NDF : 86.5/73

In: -80.300+/-778.115 χ^2/NDF :55.4/57

Out: -611.255+/-739.293 χ^2/NDF :74.1/63

All: -359.353+/-535.958 χ^2/NDF : 129.8/121

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4668.180 $\pm$ 0.763 χ^2 /NDF: 1811544.3/34

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF:1380601.0/24

Right Out: 4373.432 $\pm$ 0.722 χ^2 /NDF: 4052765.6/38

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

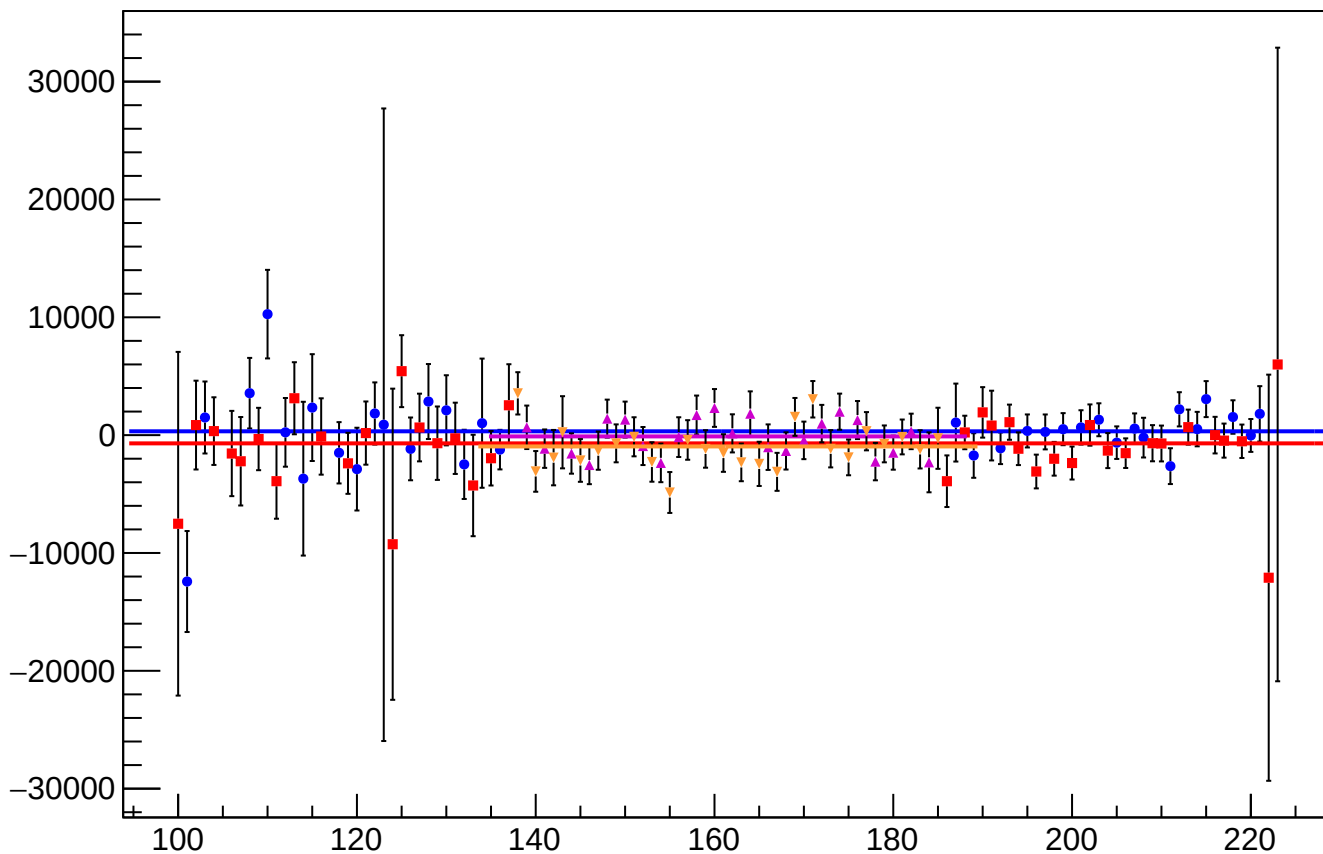
Right: 4512.766 $\pm$ 0.524 χ^2 /NDF: 5943046.2/73

In: 4643.771 $\pm$ 0.550 χ^2 /NDF:2813279.1/57

Out: 4418.964 $\pm$ 0.521 χ^2 /NDF:5441667.1/63

All: 4525.324 $\pm$ 0.378 χ^2 /NDF: 8342906.5/12

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 325.497 ± 321.915 χ^2/NDF : 35.9/34

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -698.900 ± 325.223 χ^2/NDF : 24.4/38

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

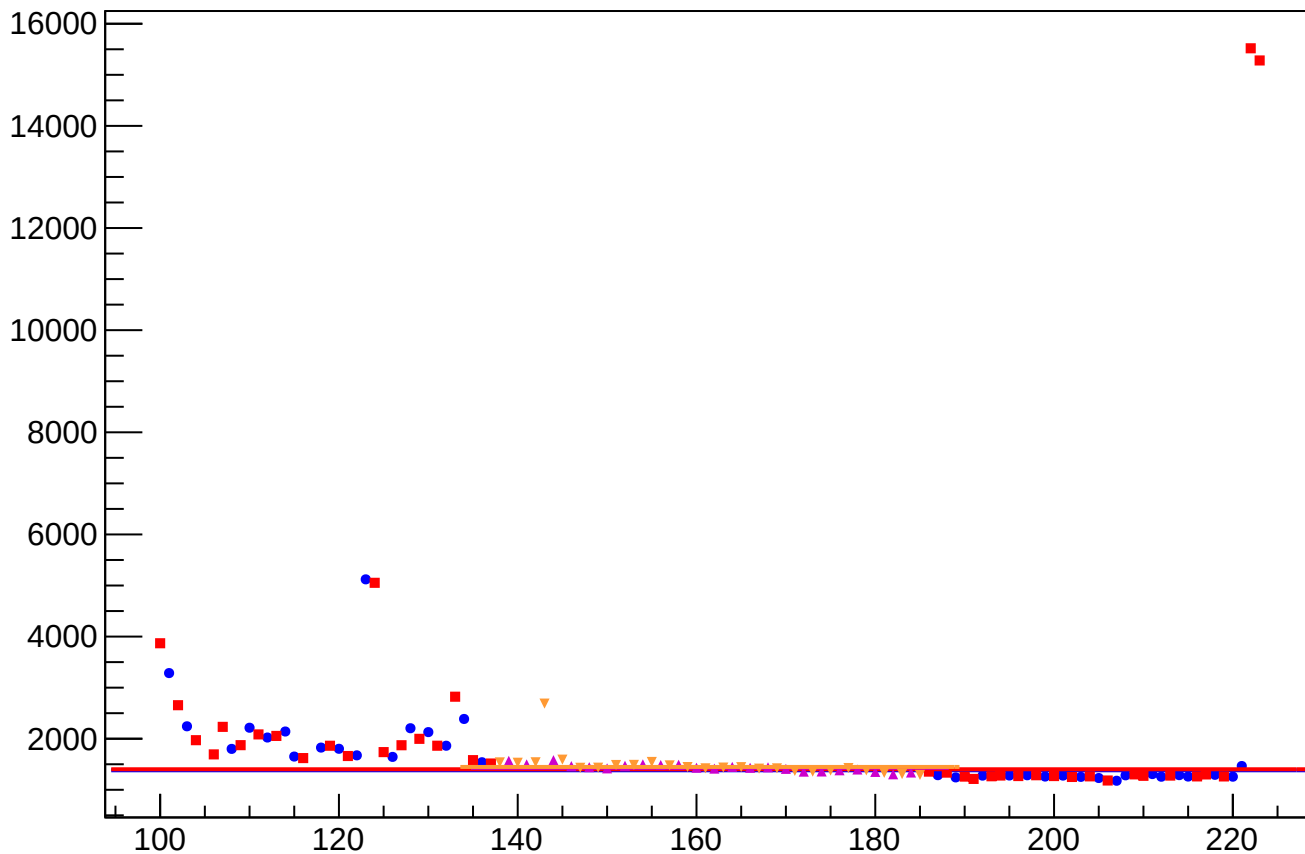
Right: -181.465 ± 228.789 χ^2/NDF : 65.3/73

In: 123.126 ± 234.941 χ^2/NDF : 56.2/57

Out: -823.085 ± 234.851 χ^2/NDF : 53.2/63

All: -350.160 ± 166.097 χ^2/NDF : 117.5/121

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1381.976 $\pm$ 0.228 χ^2 /NDF: 1627312.9/34

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1401.999 $\pm$ 0.230 χ^2 /NDF: 3543544.4/38

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

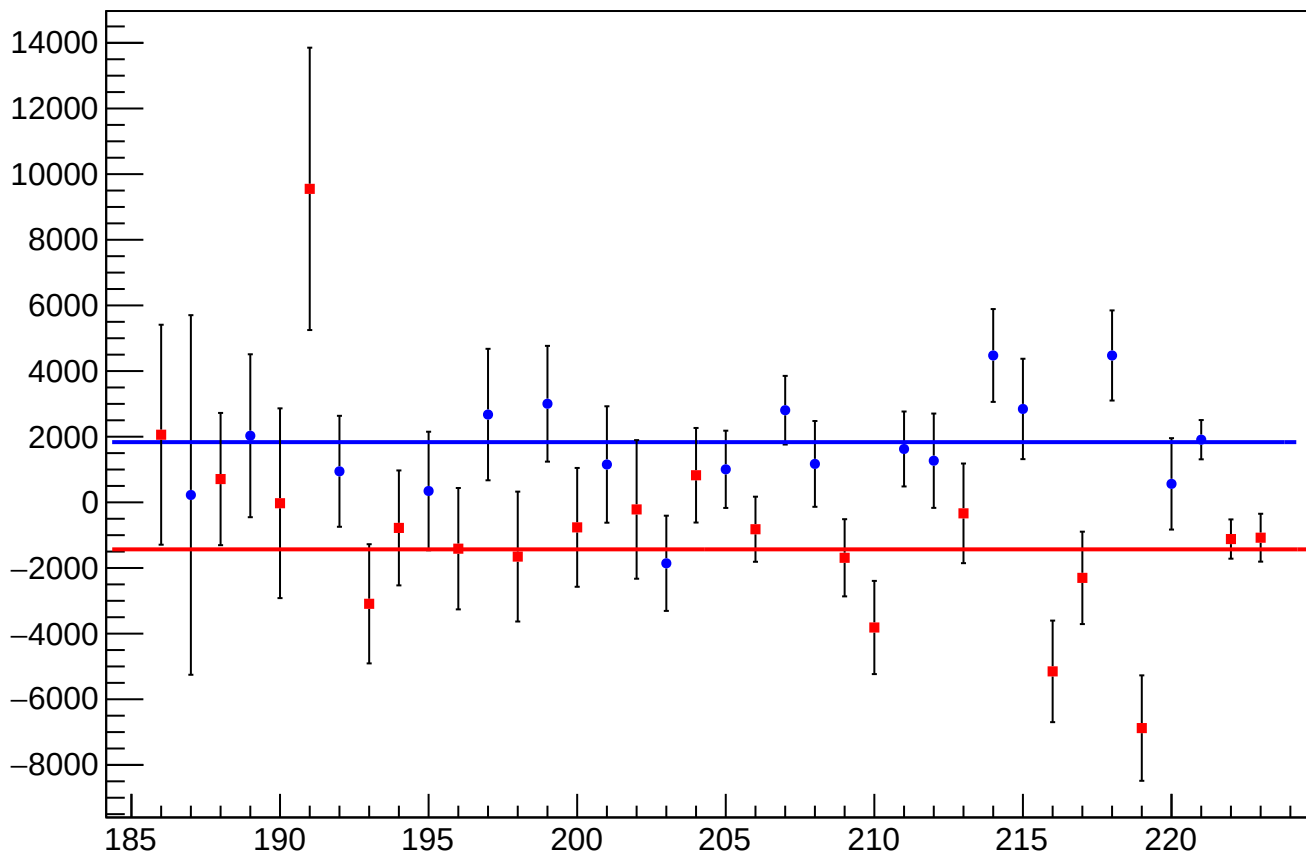
Right: 1391.885 $\pm$ 0.162 χ^2 /NDF: 5174686.4/73

In: 1405.101 $\pm$ 0.166 χ^2 /NDF: 1724525.7/57

Out: 1423.799 $\pm$ 0.166 χ^2 /NDF: 3981578.0/63

All: 1414.453 $\pm$ 0.117 χ^2 /NDF: 5712440.0/12

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1834.533+/-309.258 χ^2/NDF : 18.6/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -1432.303+/-296.831 χ^2/NDF : 34.8/19

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

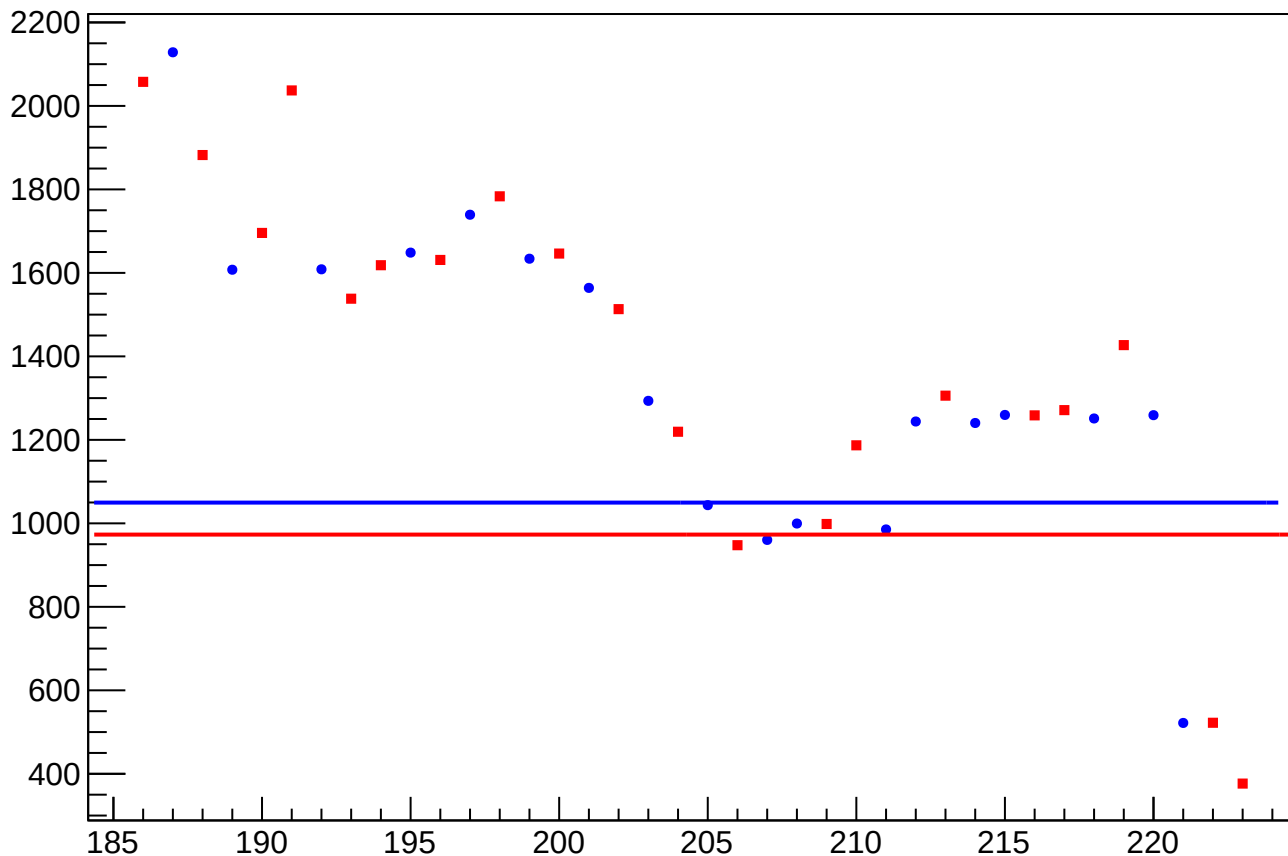
Right: 134.156+/-214.150 χ^2/NDF : 111.5/37

In: 1834.533+/-309.258 χ^2/NDF : 18.6/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 134.156+/-214.150 χ^2/NDF : 111.5/37

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1049.720+/-0.219 χ^2/NDF : 3077456.9/17

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 973.069+/-0.210 χ^2/NDF : 5317792.9/19

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

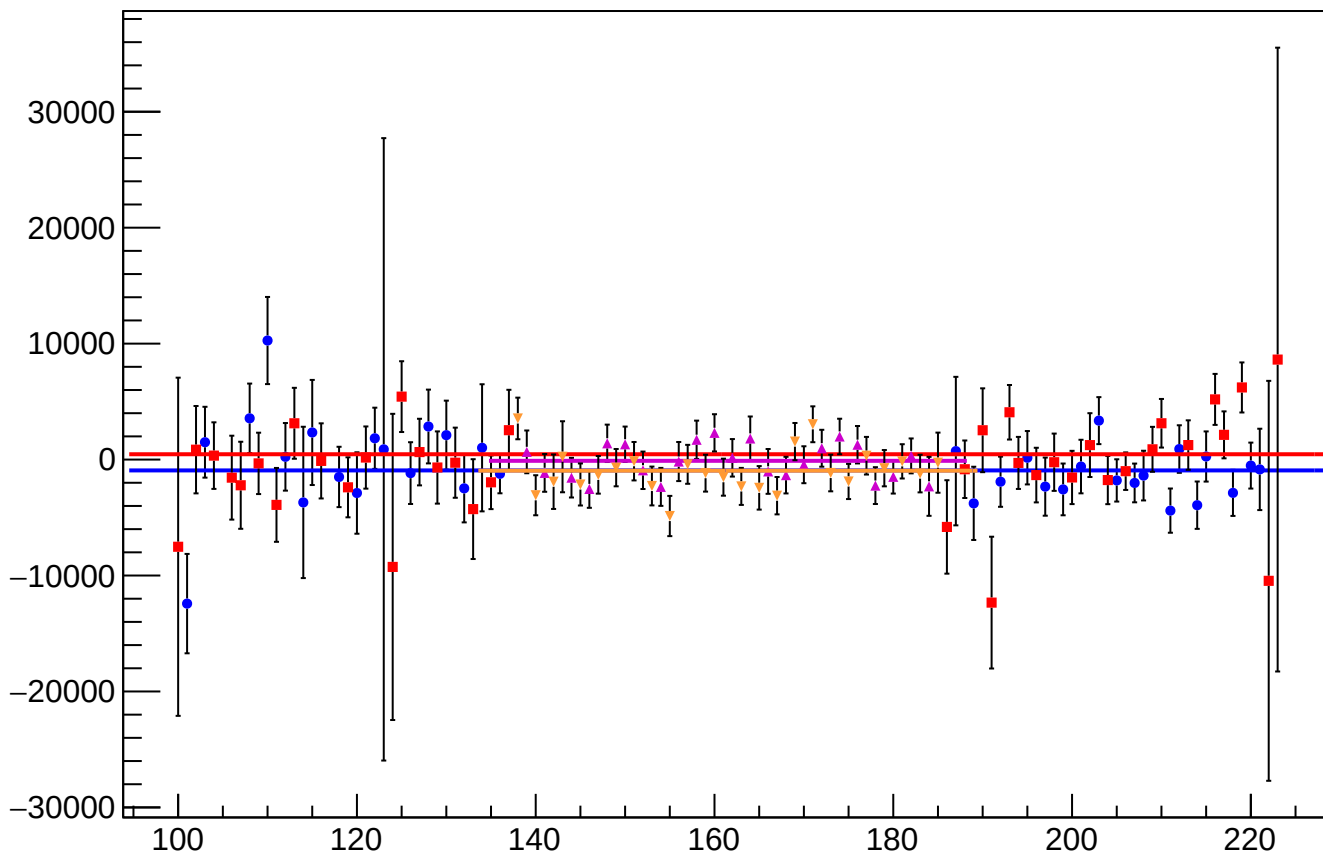
Right: 1009.824+/-0.151 χ^2/NDF : 8459199.8/37

In: 1049.720+/-0.219 χ^2/NDF : 3077456.9/17

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1009.824+/-0.151 χ^2/NDF : 8459199.8/37

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -935.026+/-425.854 χ^2/NDF : 39.1/34

Left Out: -958.410+/-339.496 χ^2/NDF : 28.5/24

Right Out: 459.897+/-437.732 χ^2/NDF : 39.9/38

Left In: -107.512+/-343.663 χ^2/NDF : 19.5/22

Left: -538.150+/-241.520 χ^2/NDF : 51.1/47

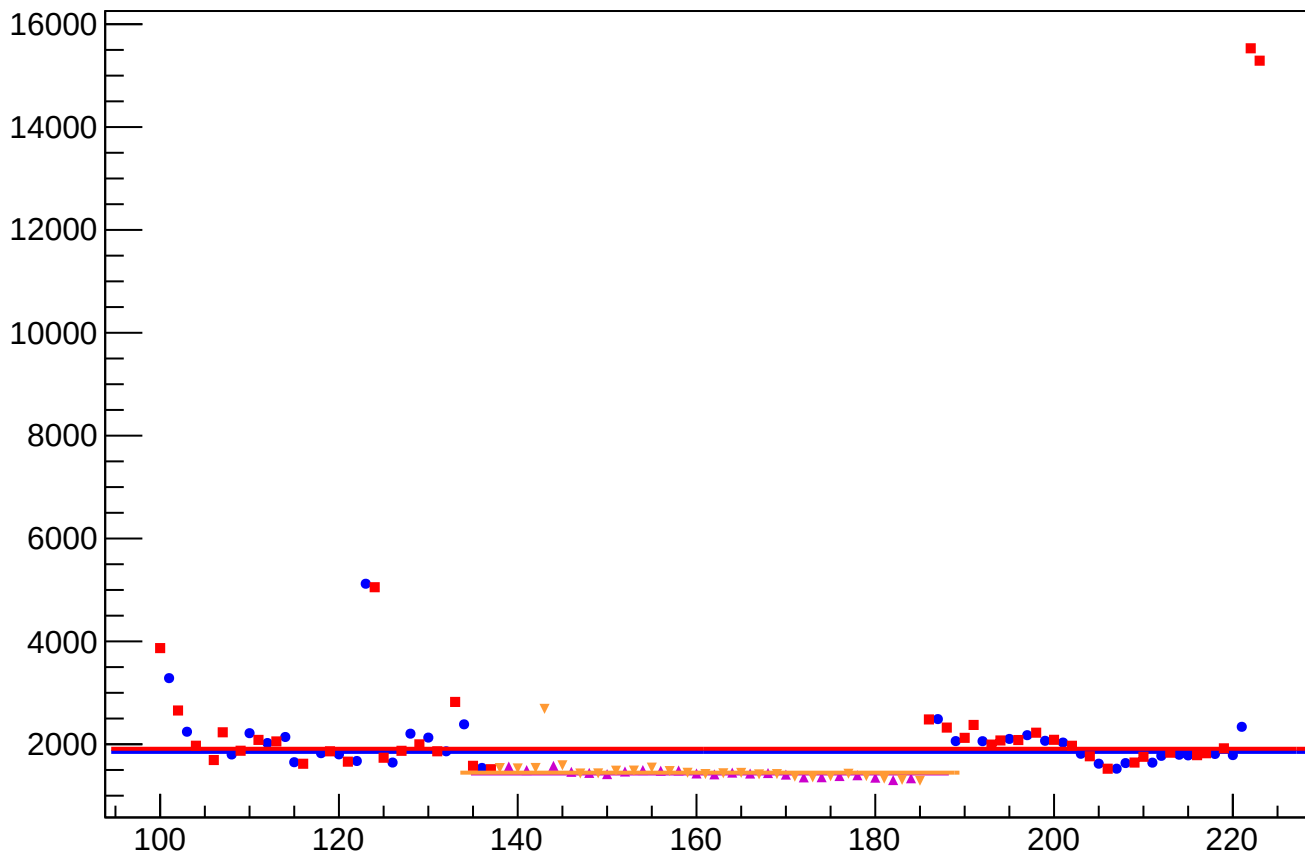
Right: -256.746+/-305.237 χ^2/NDF : 84.3/73

In: -433.880+/-267.440 χ^2/NDF : 60.9/57

Out: -425.700+/-268.267 χ^2/NDF : 75.0/63

All: -429.803+/-189.401 χ^2/NDF : 135.9/121

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1851.420+/-0.301 χ^2/NDF : 809693.1/34

Left Out: 1447.554+/-0.240 χ^2/NDF : 419254.7/24

Right Out: 1912.088+/-0.310 χ^2/NDF : 2572155.1/38

Left In: 1431.456+/-0.243 χ^2/NDF : 75130.4/22

Left: 1439.603+/-0.171 χ^2/NDF : 496606.4/47

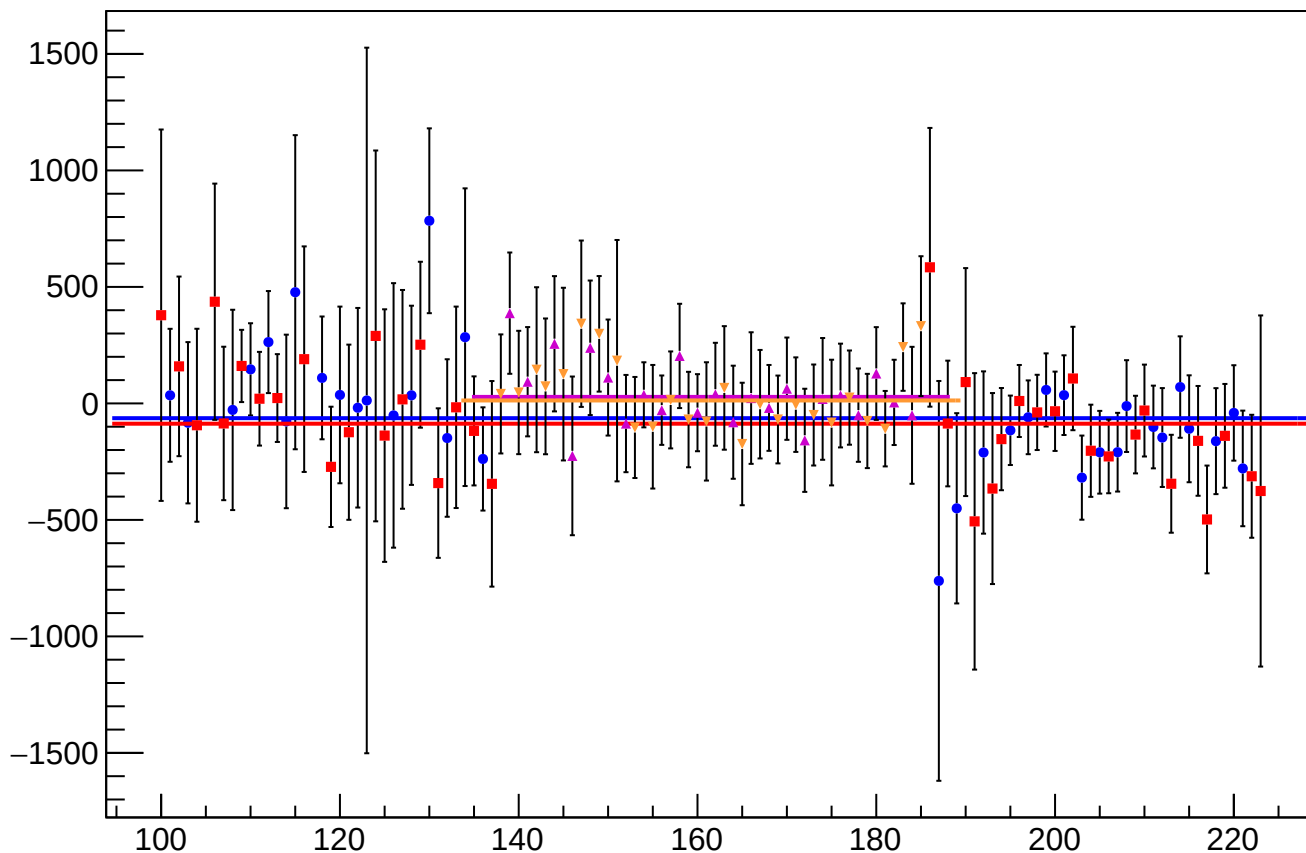
Right: 1880.920+/-0.216 χ^2/NDF : 3401585.5/73

In: 1597.088+/-0.189 χ^2/NDF : 2062764.9/57

Out: 1622.033+/-0.190 χ^2/NDF : 4397843.3/63

All: 1609.522+/-0.134 χ^2/NDF : 6469281.2/12

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.415 ± 40.526 $\chi^2/\text{NDF}: 18.1/34$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -87.086 ± 40.428 $\chi^2/\text{NDF}: 18.8/38$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

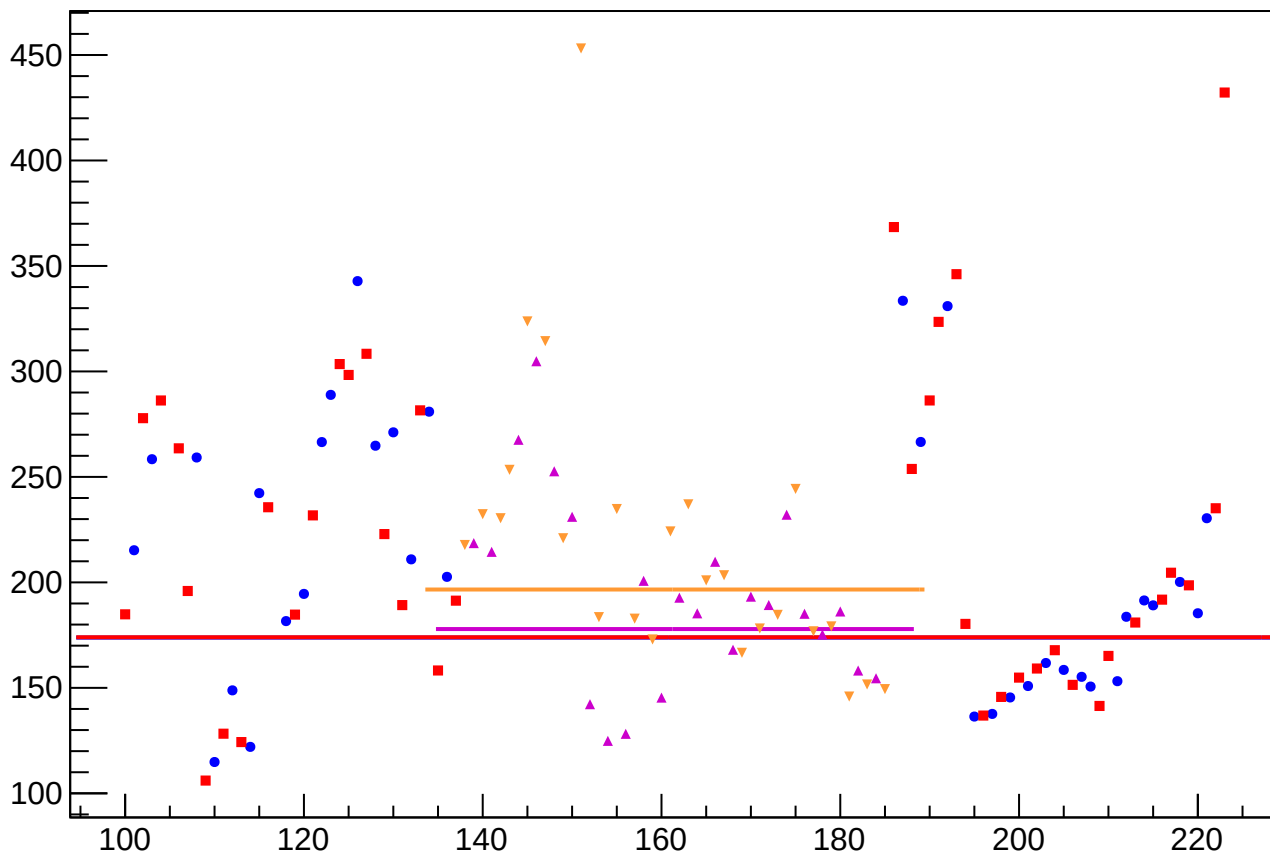
Right: -75.279 ± 28.621 $\chi^2/\text{NDF}: 37.0/73$

In: -22.030 ± 29.970 $\chi^2/\text{NDF}: 26.9/57$

Out: -45.187 ± 30.783 $\chi^2/\text{NDF}: 29.0/63$

All: -33.299 ± 21.474 $\chi^2/\text{NDF}: 56.2/121$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.825+/-0.029 χ^2/NDF : 2318189.8/34

Left Out: 196.620+/-0.034 χ^2/NDF :1793507.9/24

Right Out: 173.988+/-0.029 χ^2/NDF : 3279339.5/38

Left In: 177.878+/-0.031 χ^2/NDF :1644086.7/22

Left: 186.646+/-0.023 χ^2/NDF : 3603390.3/47

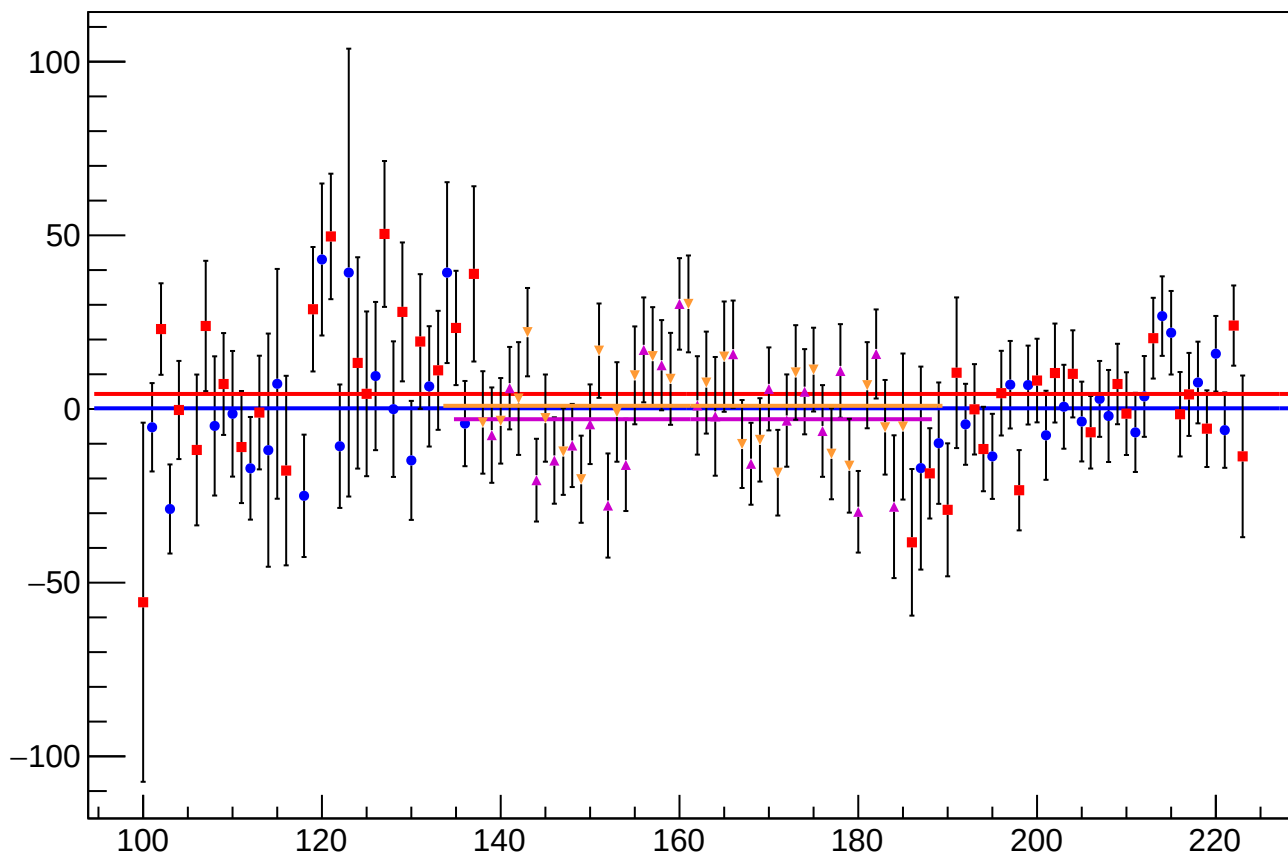
Right: 173.906+/-0.020 χ^2/NDF : 5597545.6/73

In: 175.661+/-0.021 χ^2/NDF :3971341.0/57

Out: 183.498+/-0.022 χ^2/NDF :5336234.9/63

All: 179.475+/-0.015 χ^2/NDF : 9374131.1/123

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.203 ± 2.401 χ^2/NDF : 32.2/34

Left Out: 0.920 ± 2.696 χ^2/NDF : 24.0/24

Right Out: 4.333 ± 2.389 χ^2/NDF : 51.4/38

Left In: -2.941 ± 2.745 χ^2/NDF : 31.0/22

Left: -0.976 ± 1.923 χ^2/NDF : 56.0/47

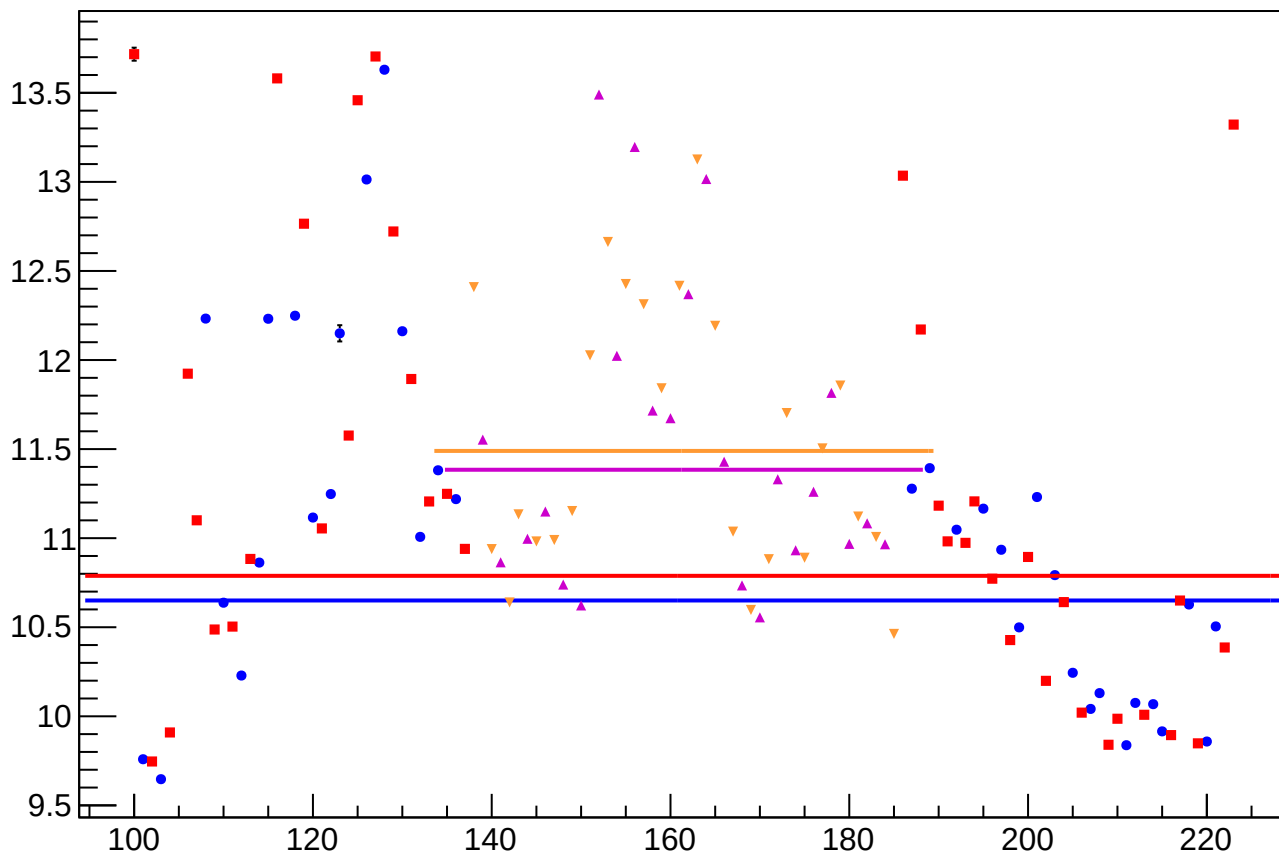
Right: 2.279 ± 1.693 χ^2/NDF : 85.2/73

In: -1.160 ± 1.807 χ^2/NDF : 64.0/57

Out: 2.832 ± 1.788 χ^2/NDF : 76.3/63

All: 0.857 ± 1.271 χ^2/NDF : 142.8/121

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.650 $\pm$ 0.002 χ^2 /NDF: 221502.6/34

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 10.789 $\pm$ 0.002 χ^2 /NDF: 322046.0/38

Left In: 11.384 $\pm$ 0.002 χ^2 /NDF:149799.6/22

Left: 11.438 $\pm$ 0.001 χ^2 /NDF: 283707.5/47

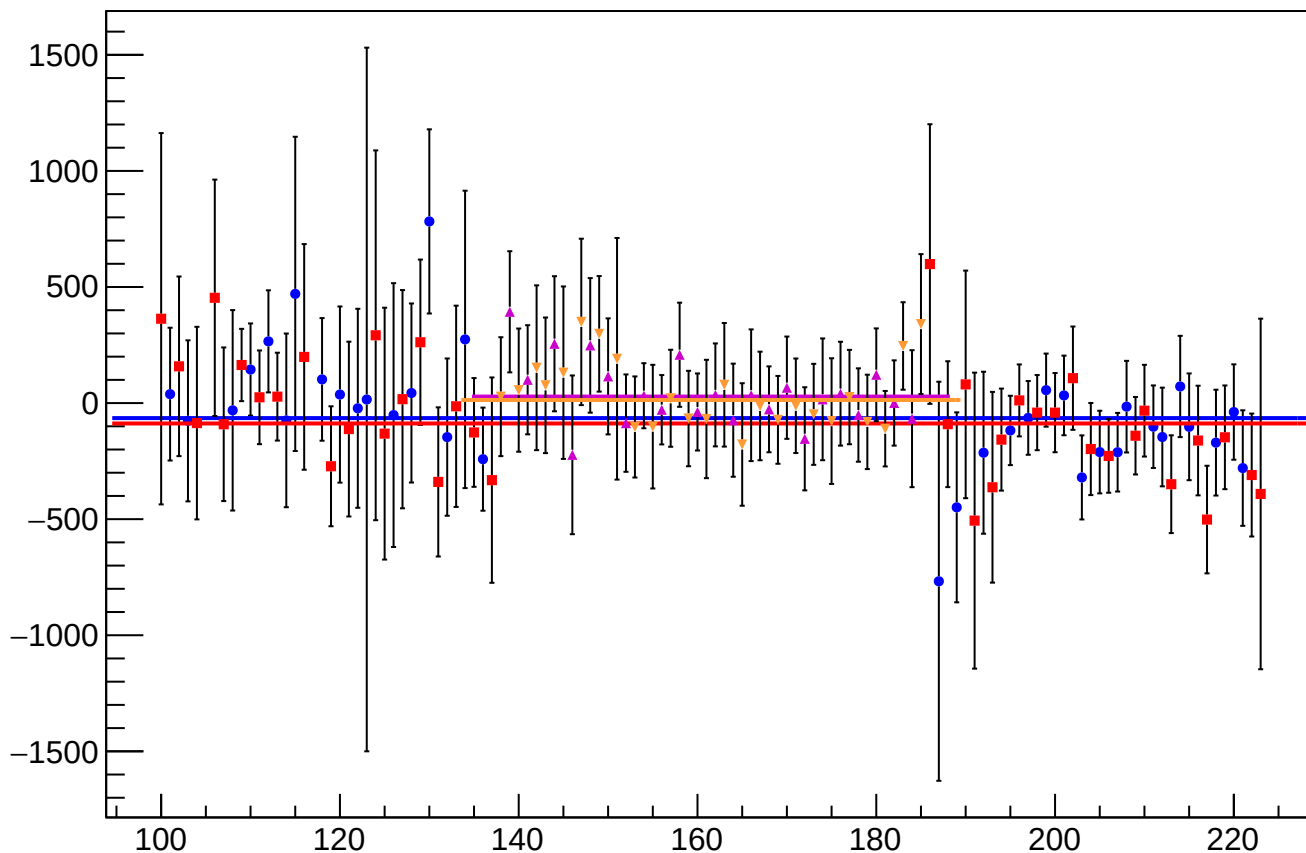
Right: 10.720 $\pm$ 0.001 χ^2 /NDF: 546888.0/73

In: 10.968 $\pm$ 0.001 χ^2 /NDF:452303.1/57

Out: 11.097 $\pm$ 0.001 χ^2 /NDF:530236.8/63

All: 11.033 $\pm$ 0.001 χ^2 /NDF: 987657.9/121

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.676 ± 40.625 χ^2/NDF : 18.1/34

Left Out: 13.323 ± 47.662 χ^2/NDF : 7.9/24

Right Out: -87.800 ± 40.532 χ^2/NDF : 19.0/38

Left In: 28.050 ± 44.681 χ^2/NDF : 6.6/22

Left: 21.161 ± 32.597 χ^2/NDF : 14.6/47

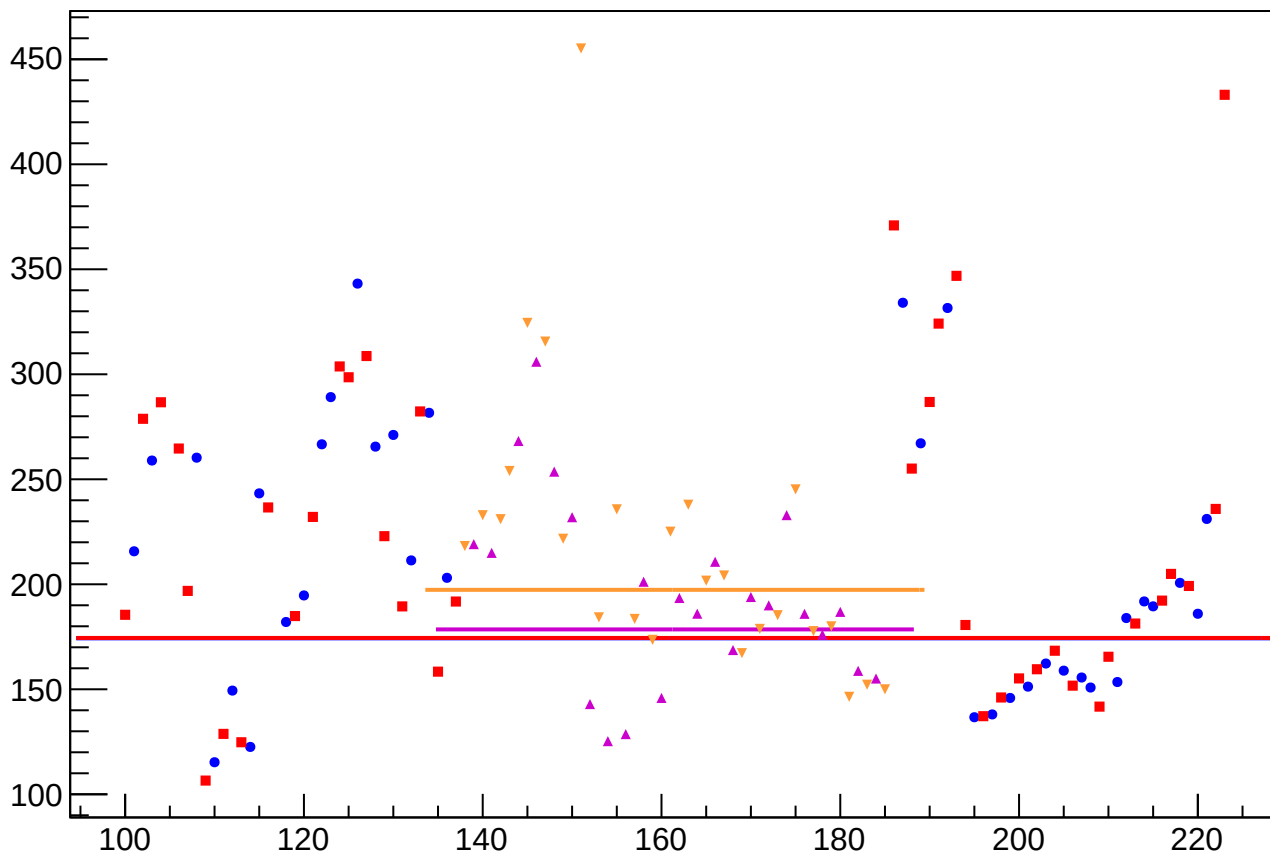
Right: -76.264 ± 28.694 χ^2/NDF : 37.2/73

In: -22.712 ± 30.058 χ^2/NDF : 27.1/57

Out: -45.360 ± 30.877 χ^2/NDF : 29.5/63

All: -33.732 ± 21.538 χ^2/NDF : 56.8/121

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.260 $\pm$ 0.029 χ^2 /NDF: 2313618.6/34

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 174.448 $\pm$ 0.029 χ^2 /NDF: 3275688.4/38

Left In: 178.512 $\pm$ 0.032 χ^2 /NDF:1642304.1/22

Left: 187.326 $\pm$ 0.023 χ^2 /NDF: 3599509.2/47

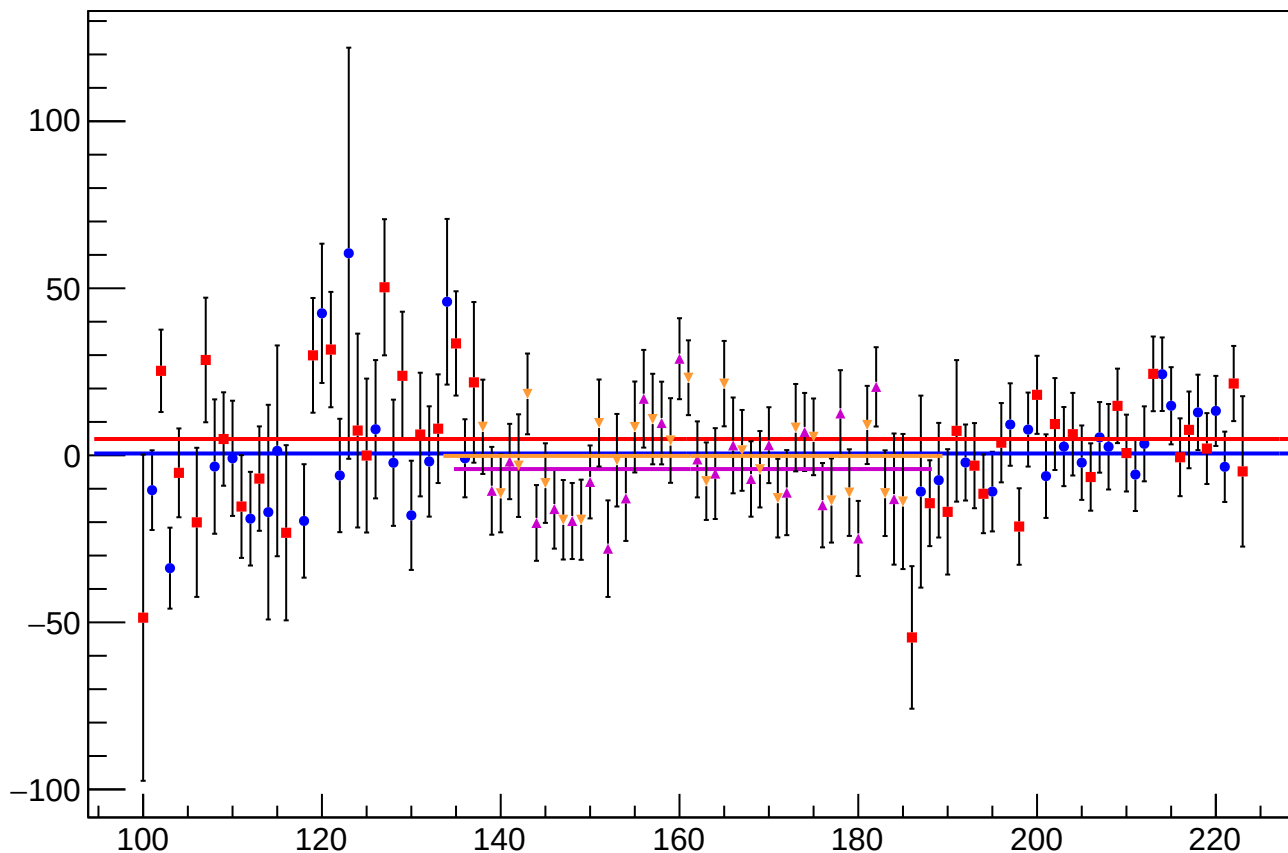
Right: 174.354 $\pm$ 0.020 χ^2 /NDF: 5589328.5/73

In: 176.184 $\pm$ 0.021 χ^2 /NDF:3965838.6/57

Out: 184.062 $\pm$ 0.022 χ^2 /NDF:5334612.5/63

All: 180.017 $\pm$ 0.015 χ^2 /NDF: 9367288.5/123

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.554 ± 2.316 χ^2/NDF : 34.8/34

Left Out: -0.170 ± 2.520 χ^2/NDF : 24.4/24

Right Out: 4.889 ± 2.309 χ^2/NDF : 53.5/38

Left In: -4.107 ± 2.577 χ^2/NDF : 31.5/22

Left: -2.095 ± 1.802 χ^2/NDF : 57.1/47

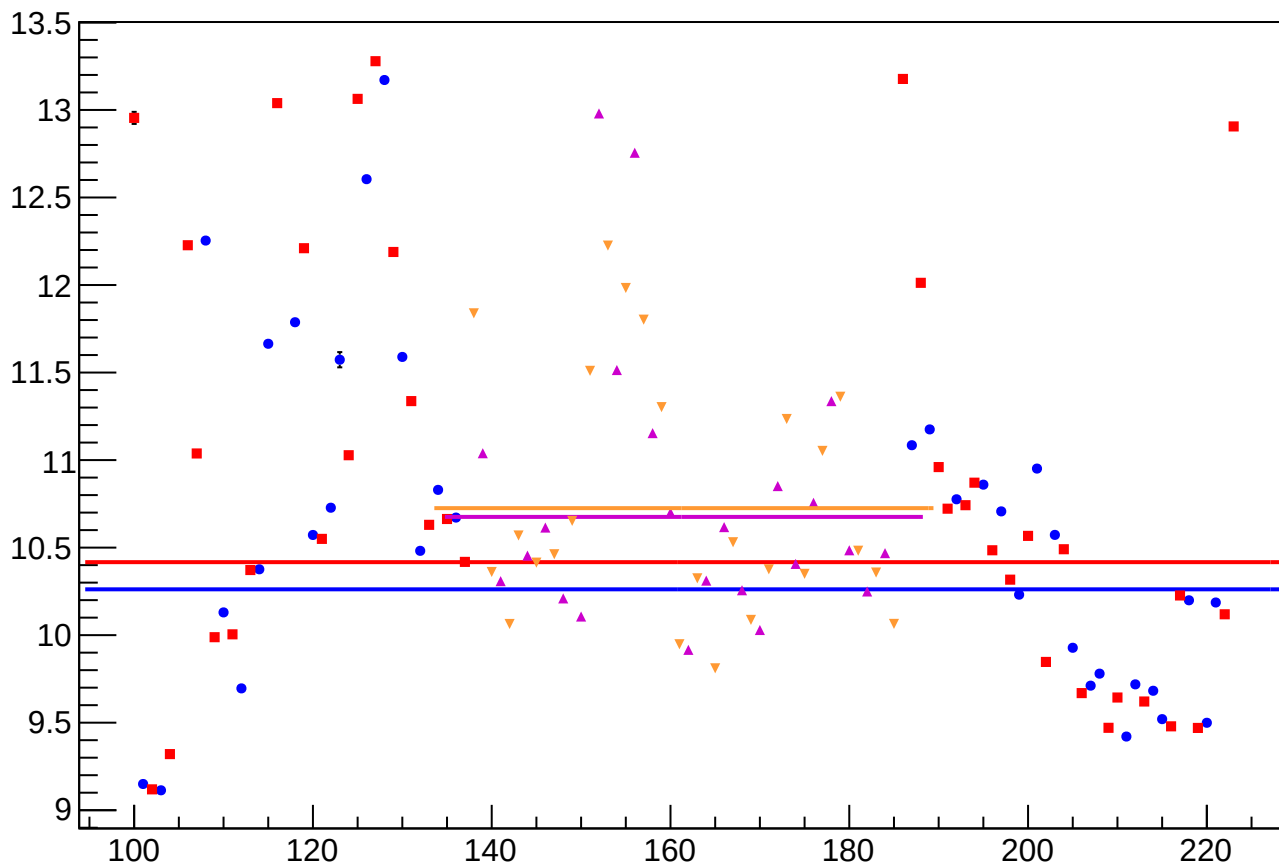
Right: 2.728 ± 1.635 χ^2/NDF : 90.1/73

In: -1.528 ± 1.722 χ^2/NDF : 68.1/57

Out: 2.580 ± 1.702 χ^2/NDF : 80.1/63

All: 0.550 ± 1.211 χ^2/NDF : 151.1/121

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.262 $\pm$ 0.002 χ^2/NDF : 249053.6/34

Left Out: 10.725 $\pm$ 0.002 χ^2/NDF :132170.8/24

Right Out: 10.417 $\pm$ 0.002 χ^2/NDF : 365986.8/38

Left In: 10.675 $\pm$ 0.002 χ^2/NDF :145938.2/22

Left: 10.701 $\pm$ 0.001 χ^2/NDF : 278494.3/47

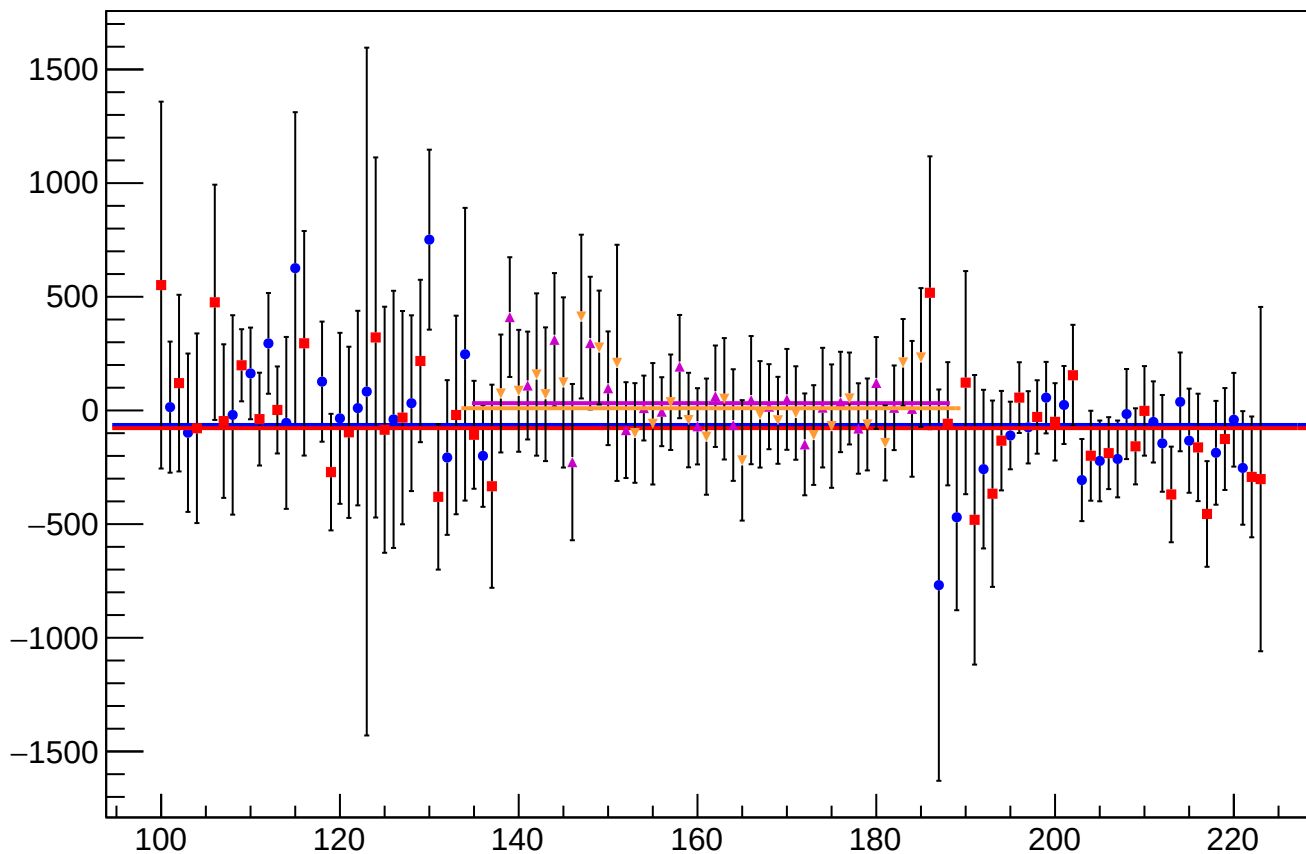
Right: 10.340 $\pm$ 0.001 χ^2/NDF : 619547.2/73

In: 10.447 $\pm$ 0.001 χ^2/NDF :423508.1/57

Out: 10.558 $\pm$ 0.001 χ^2/NDF :514453.0/63

All: 10.503 $\pm$ 0.001 χ^2/NDF : 942177.5/121

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.889 ± 40.689 $\chi^2/\text{NDF}: 18.3/34$

Left Out: 9.801 ± 47.979 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -77.795 ± 40.651 $\chi^2/\text{NDF}: 19.4/38$

Left In: 31.989 ± 45.038 $\chi^2/\text{NDF}: 7.2/22$

Left: 21.596 ± 32.837 $\chi^2/\text{NDF}: 14.8/47$

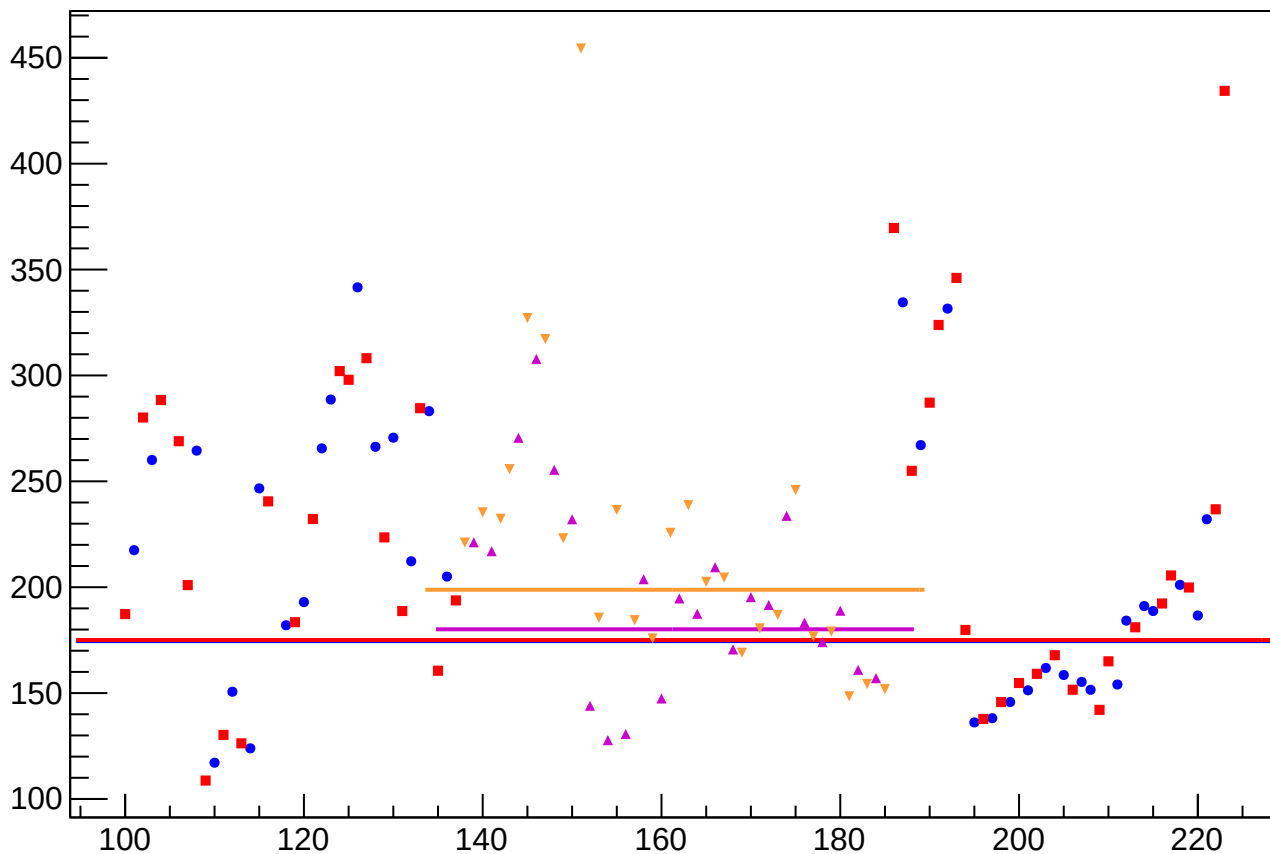
Right: -70.848 ± 28.758 $\chi^2/\text{NDF}: 37.8/73$

In: -20.802 ± 30.192 $\chi^2/\text{NDF}: 28.0/57$

Out: -41.190 ± 31.015 $\chi^2/\text{NDF}: 28.9/63$

All: -30.722 ± 21.634 $\chi^2/\text{NDF}: 57.1/121$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.541 $\pm$ 0.029 χ^2 /NDF: 2311462.1/34

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 175.080 $\pm$ 0.029 χ^2 /NDF: 3233422.1/38

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

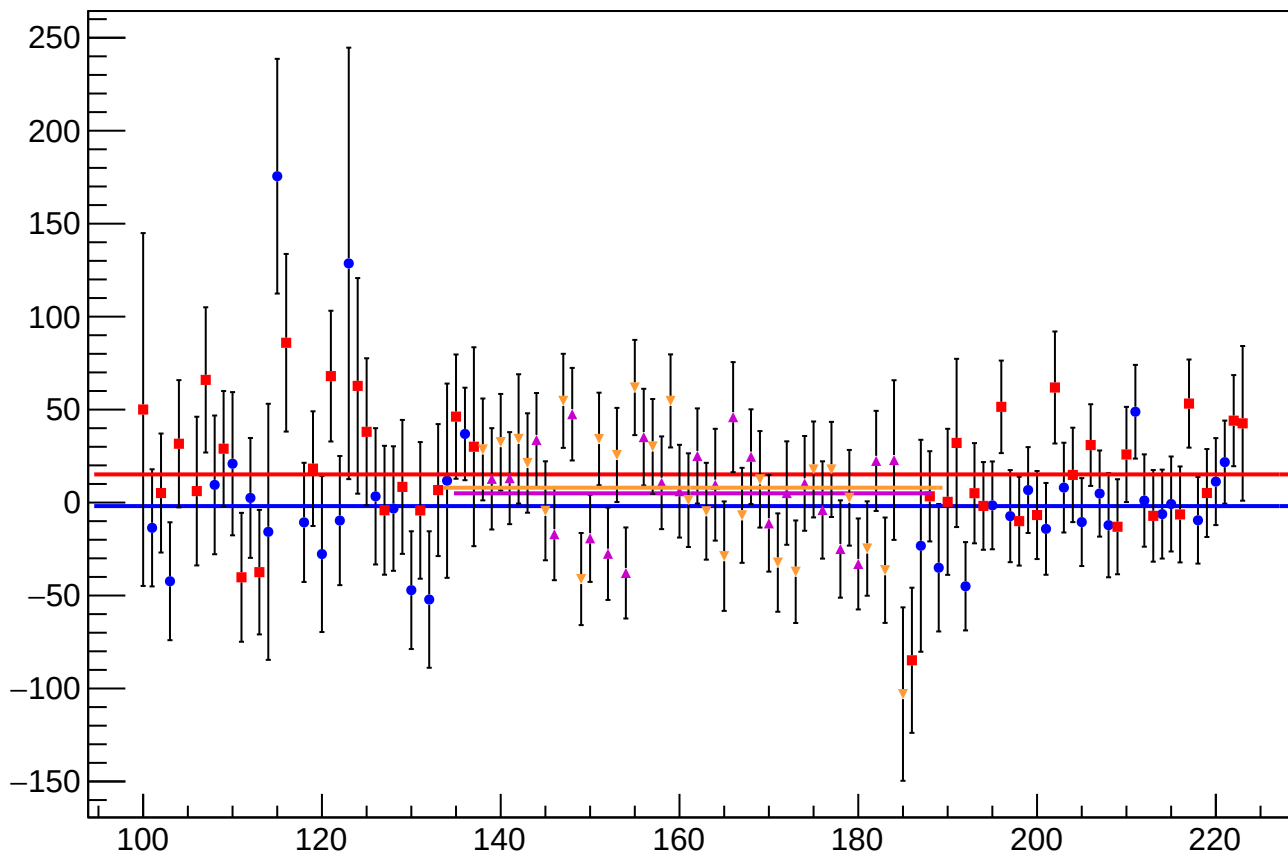
Right: 174.811 $\pm$ 0.020 χ^2 /NDF: 5545060.2/73

In: 177.050 $\pm$ 0.021 χ^2 /NDF:3922220.4/57

Out: 184.993 $\pm$ 0.022 χ^2 /NDF:5281093.8/63

All: 180.914 $\pm$ 0.015 χ^2 /NDF: 9270664.4/123

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.901 ± 4.922 $\chi^2/\text{NDF}: 29.3/34$

Left Out: 7.990 ± 5.327 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 15.153 ± 4.870 $\chi^2/\text{NDF}: 36.8/38$

Left In: 4.973 ± 5.444 $\chi^2/\text{NDF}: 20.5/22$

Left: 6.514 ± 3.808 $\chi^2/\text{NDF}: 58.0/47$

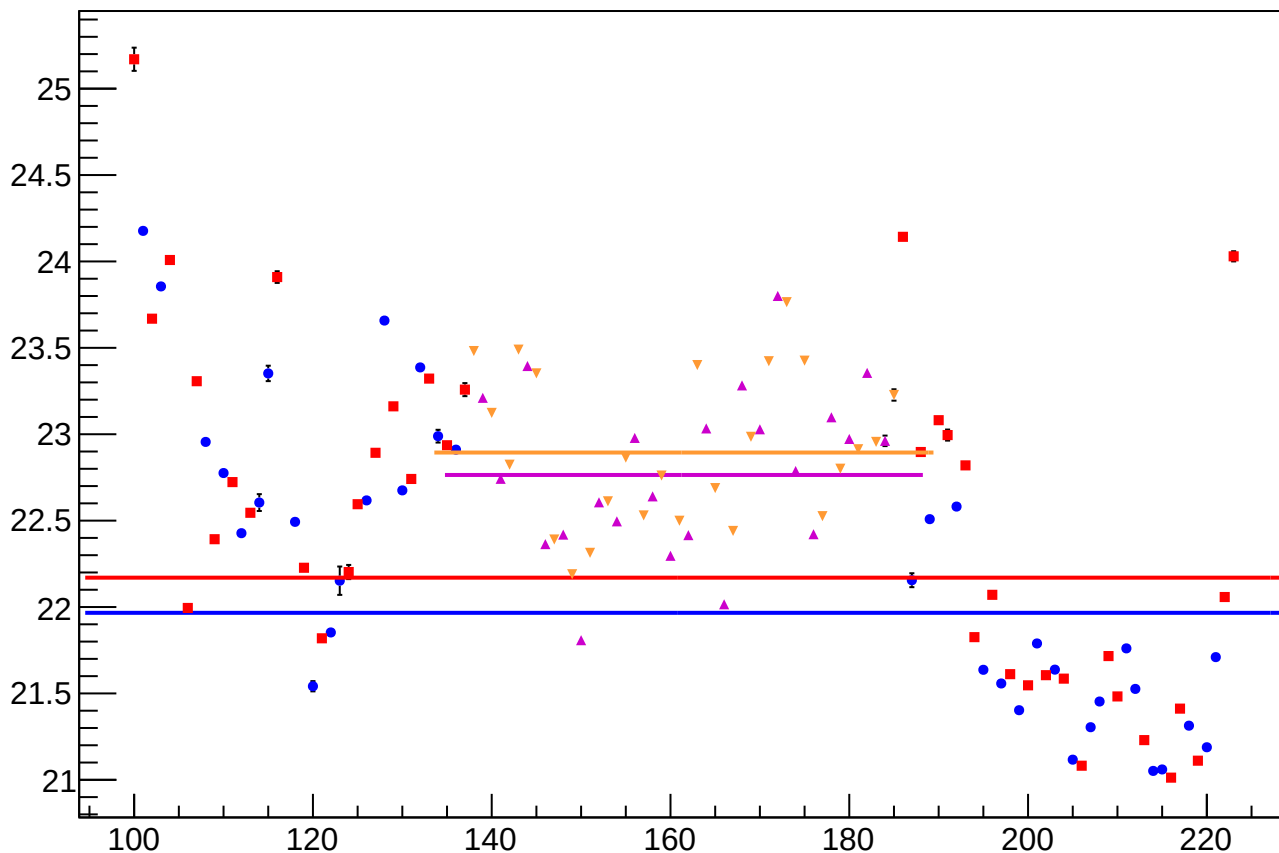
Right: 6.716 ± 3.462 $\chi^2/\text{NDF}: 72.2/73$

In: 1.191 ± 3.651 $\chi^2/\text{NDF}: 50.7/57$

Out: 11.892 ± 3.594 $\chi^2/\text{NDF}: 75.2/63$

All: 6.625 ± 2.561 $\chi^2/\text{NDF}: 130.2/121$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.966 ± 0.003 $\chi^2/\text{NDF}: 54526.1/34$

Left Out: 22.894 ± 0.004 $\chi^2/\text{NDF}: 13070.5/24$

Right Out: 22.170 ± 0.003 $\chi^2/\text{NDF}: 63222.2/38$

Left In: 22.764 ± 0.004 $\chi^2/\text{NDF}: 14665.7/22$

Left: 22.831 ± 0.003 $\chi^2/\text{NDF}: 28317.3/47$

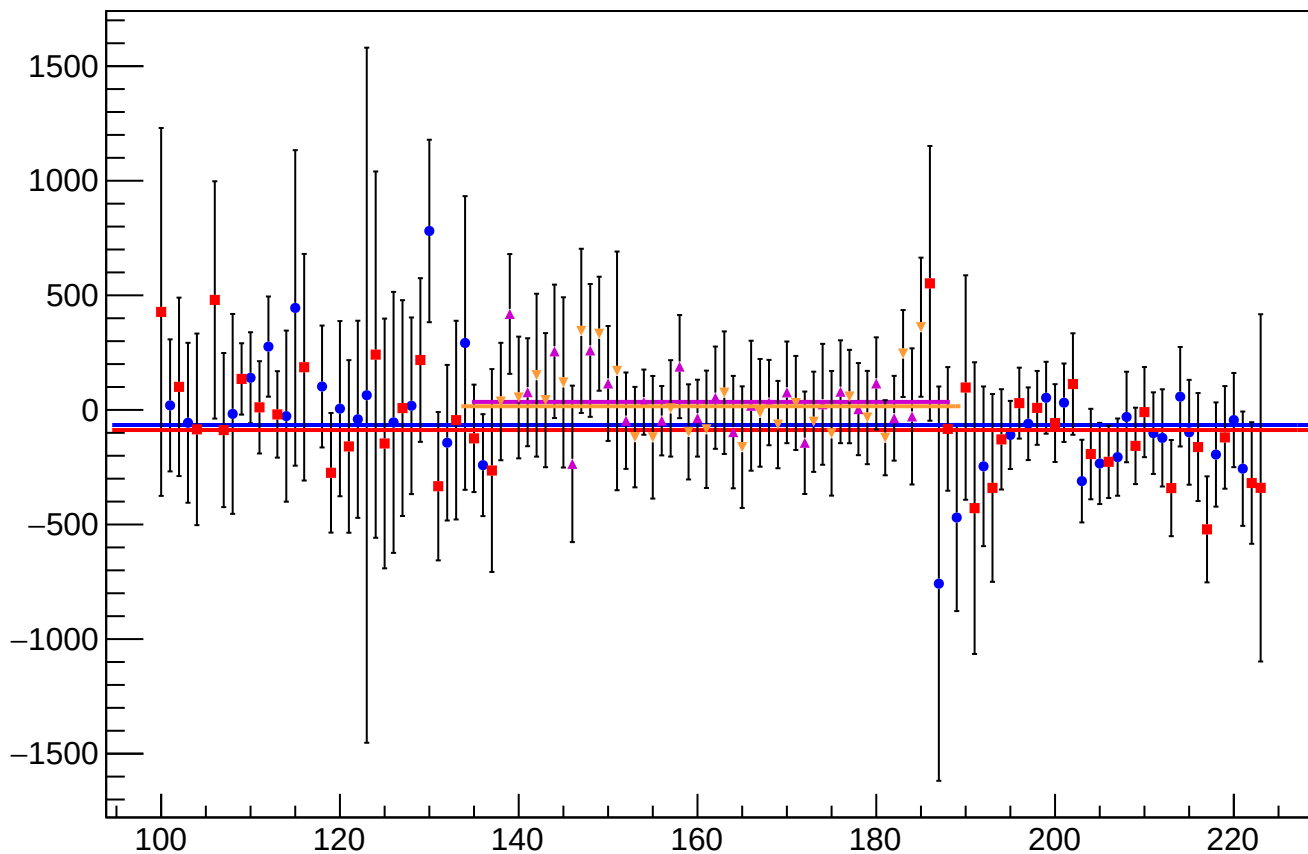
Right: 22.069 ± 0.002 $\chi^2/\text{NDF}: 119475.7/73$

In: 22.325 ± 0.003 $\chi^2/\text{NDF}: 92823.7/57$

Out: 22.500 ± 0.003 $\chi^2/\text{NDF}: 96424.2/63$

All: 22.414 ± 0.002 $\chi^2/\text{NDF}: 191564.9/121$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -65.803 ± 40.575 $\chi^2/\text{NDF}: 17.9/34$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -87.760 ± 40.488 $\chi^2/\text{NDF}: 18.0/38$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

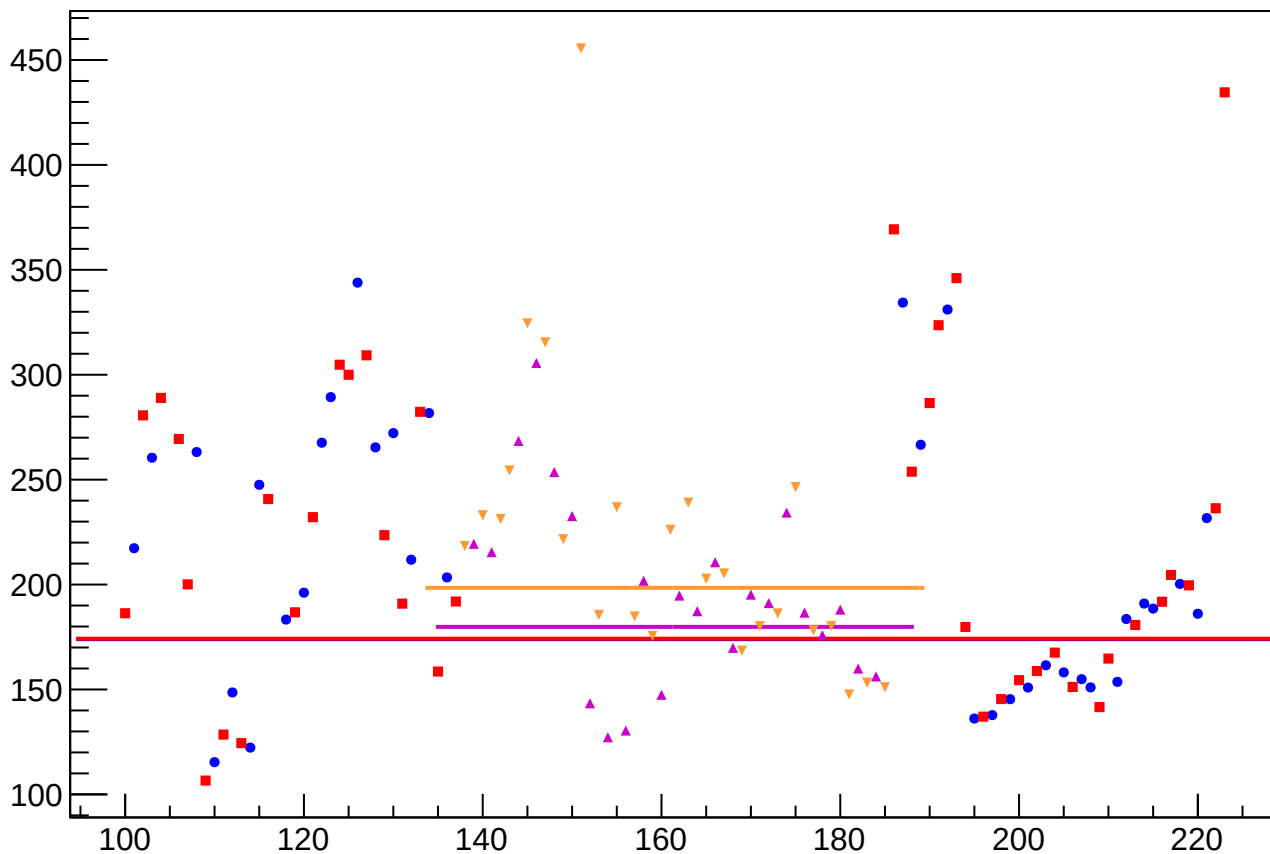
Right: -76.805 ± 28.660 $\chi^2/\text{NDF}: 36.0/73$

In: -20.604 ± 30.125 $\chi^2/\text{NDF}: 27.2/57$

Out: -44.558 ± 30.921 $\chi^2/\text{NDF}: 29.1/63$

All: -32.269 ± 21.578 $\chi^2/\text{NDF}: 56.7/121$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.985 $\pm$ 0.029 χ^2 /NDF: 2343531.5/34

Left Out: 198.450 $\pm$ 0.034 χ^2 /NDF:1761433.9/24

Right Out: 174.200 $\pm$ 0.029 χ^2 /NDF: 3307855.5/38

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

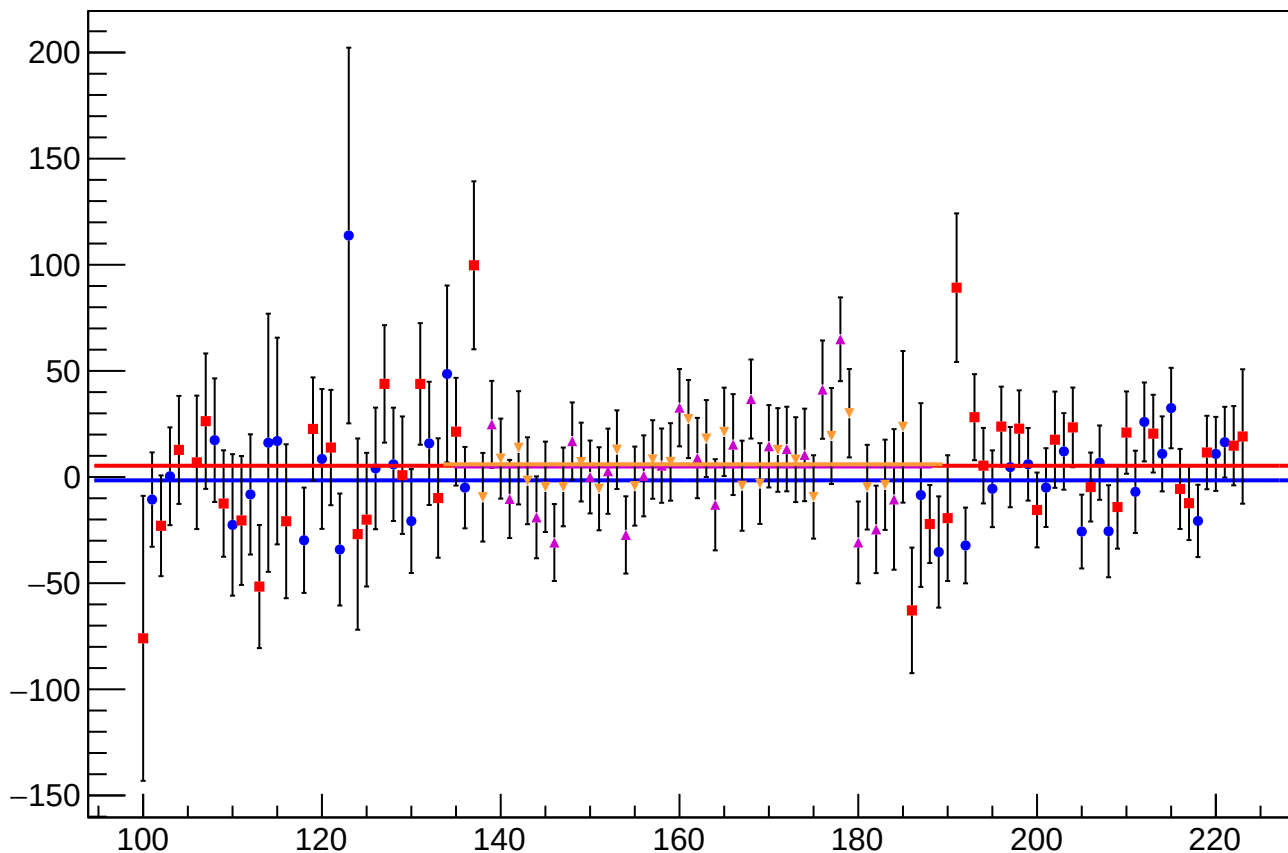
Right: 174.093 $\pm$ 0.020 χ^2 /NDF: 5651415.2/73

In: 176.612 $\pm$ 0.021 χ^2 /NDF:3951048.3/57

Out: 184.306 $\pm$ 0.022 χ^2 /NDF:5368278.3/63

All: 180.359 $\pm$ 0.015 χ^2 /NDF: 9382856.7/123

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.555 ± 3.733 $\chi^2/\text{NDF}: 26.4/34$

Left Out: 6.020 ± 4.017 $\chi^2/\text{NDF}: 8.1/24$

Right Out: 5.326 ± 3.703 $\chi^2/\text{NDF}: 45.3/38$

Left In: 4.943 ± 4.108 $\chi^2/\text{NDF}: 34.8/22$

Left: 5.494 ± 2.872 $\chi^2/\text{NDF}: 43.0/47$

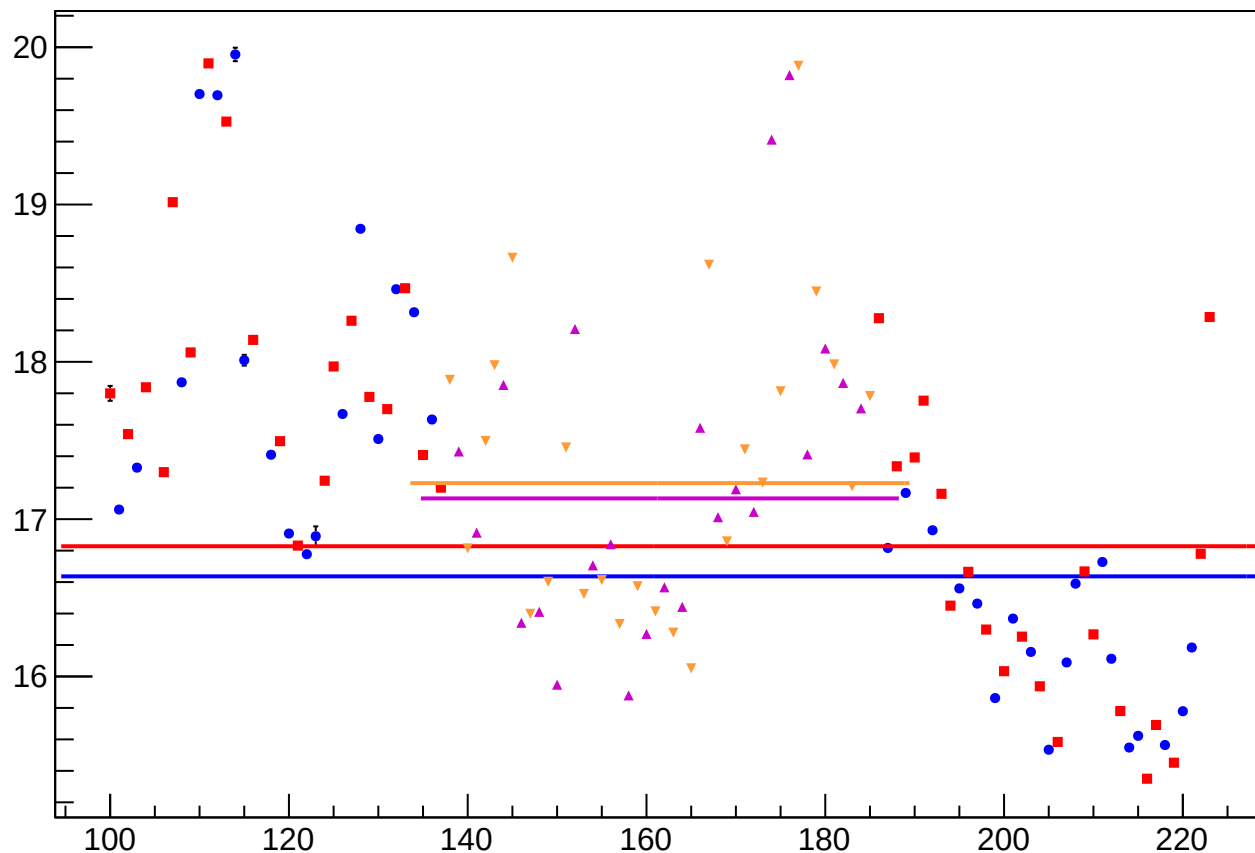
Right: 1.913 ± 2.629 $\chi^2/\text{NDF}: 73.4/73$

In: 1.385 ± 2.763 $\chi^2/\text{NDF}: 62.6/57$

Out: 5.645 ± 2.723 $\chi^2/\text{NDF}: 53.5/63$

All: 3.545 ± 1.939 $\chi^2/\text{NDF}: 117.3/121$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.636 $\pm$ 0.003 χ^2 /NDF: 138168.4/34

Left Out: 17.229 $\pm$ 0.003 χ^2 /NDF:98624.7/24

Right Out: 16.828 $\pm$ 0.003 χ^2 /NDF: 161757.5/38

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

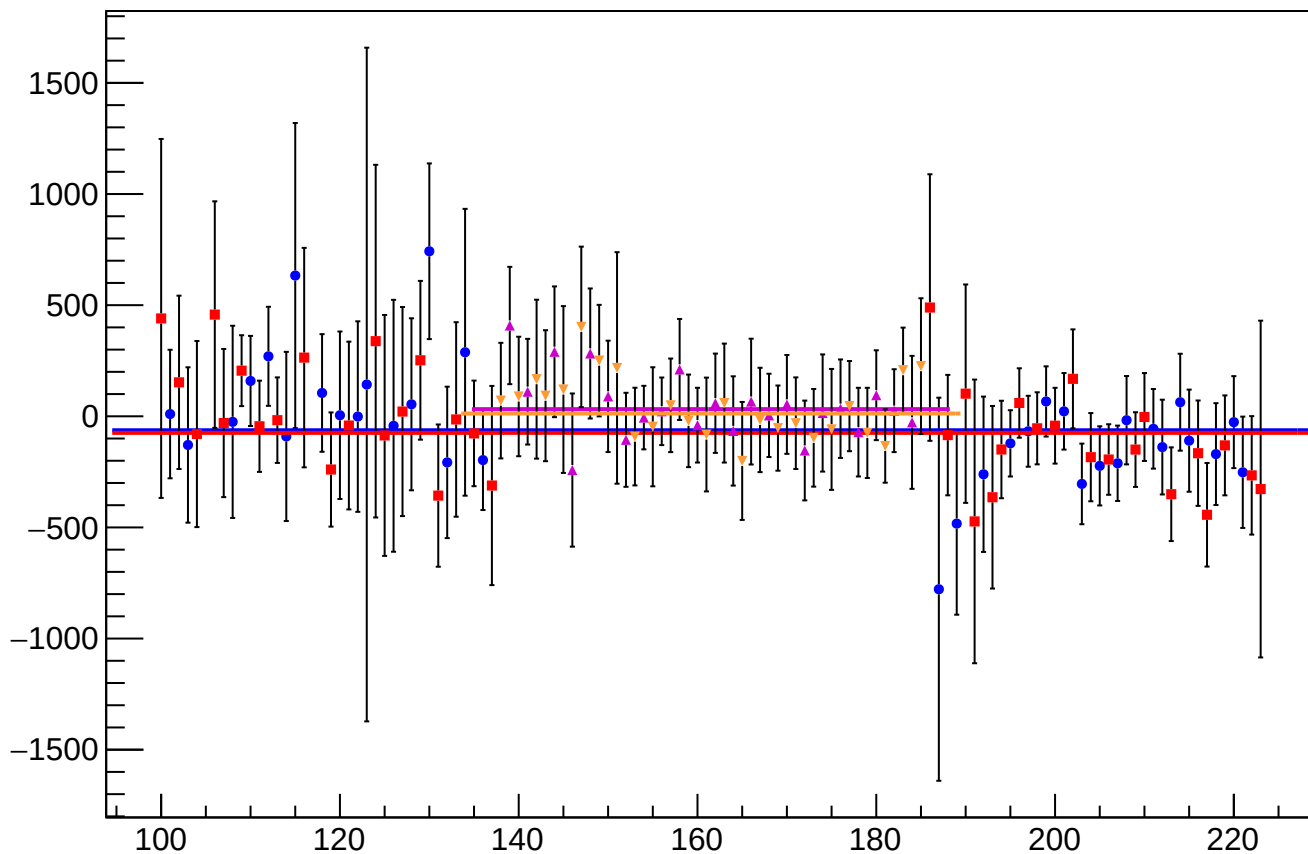
Right: 16.733 $\pm$ 0.002 χ^2 /NDF: 302574.8/73

In: 16.860 $\pm$ 0.002 χ^2 /NDF:258101.6/57

Out: 17.012 $\pm$ 0.002 χ^2 /NDF:271175.5/63

All: 16.937 $\pm$ 0.001 χ^2 /NDF: 532333.6/121

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -62.842 ± 40.811 χ^2/NDF : 18.0/34

Left Out: 12.474 ± 48.086 χ^2/NDF : 6.8/24

Right Out: -74.557 ± 40.760 χ^2/NDF : 18.4/38

Left In: 32.159 ± 45.131 χ^2/NDF : 6.9/22

Left: 22.940 ± 32.908 χ^2/NDF : 13.9/47

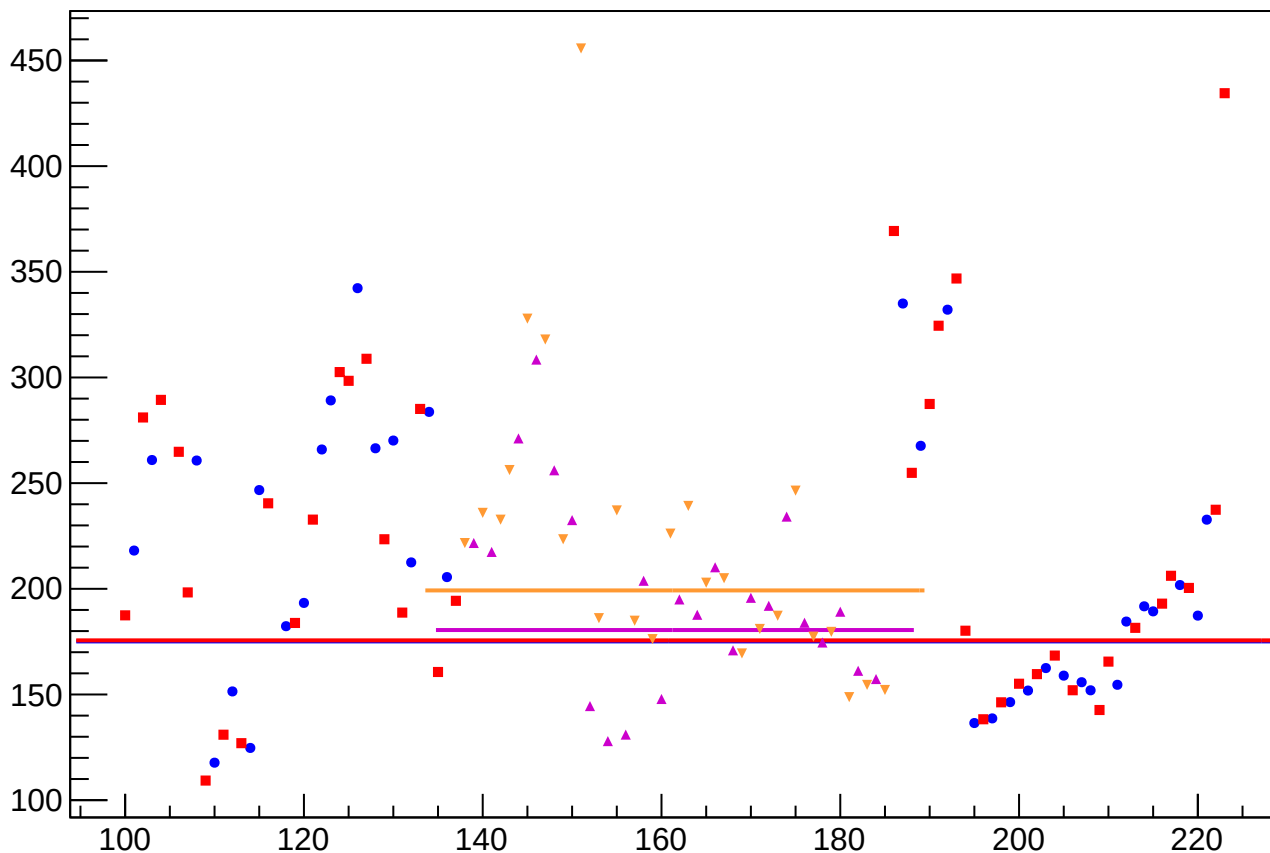
Right: -68.707 ± 28.840 χ^2/NDF : 36.4/73

In: -20.104 ± 30.270 χ^2/NDF : 27.4/57

Out: -38.170 ± 31.093 χ^2/NDF : 27.2/63

All: -28.895 ± 21.689 χ^2/NDF : 54.7/121

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.112 $\pm$ 0.029 χ^2 /NDF: 2292872.5/34

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 175.606 $\pm$ 0.029 χ^2 /NDF: 3207633.2/38

Left In: 180.494 $\pm$ 0.032 χ^2 /NDF:1593784.1/22

Left: 189.274 $\pm$ 0.023 χ^2 /NDF: 3519511.1/47

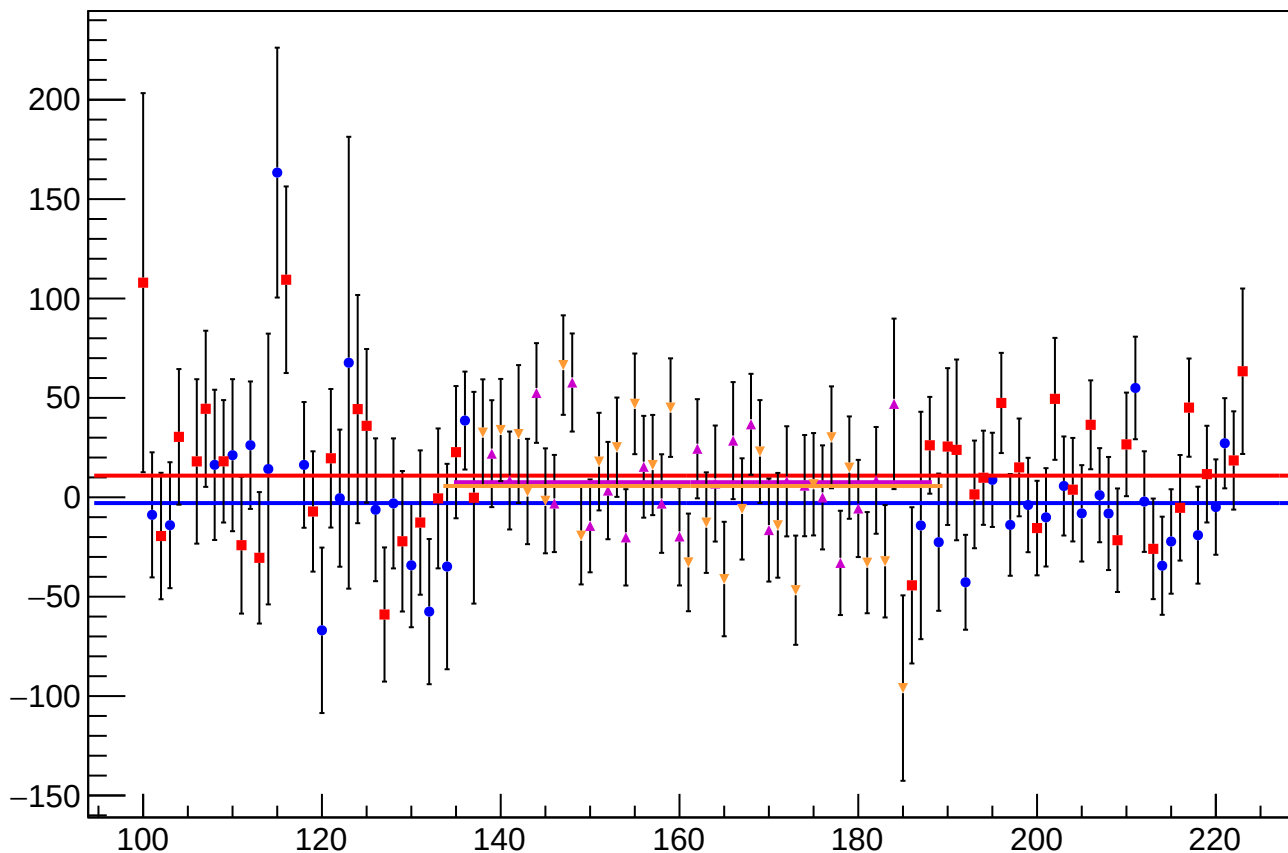
Right: 175.359 $\pm$ 0.020 χ^2 /NDF: 5500652.6/73

In: 177.533 $\pm$ 0.021 χ^2 /NDF:3902303.9/57

Out: 185.488 $\pm$ 0.022 χ^2 /NDF:5252897.0/63

All: 181.404 $\pm$ 0.015 χ^2 /NDF: 9222411.9/123

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.907 ± 4.981 χ^2/NDF : 31.6/34

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 10.898 ± 4.911 χ^2/NDF : 34.2/38

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

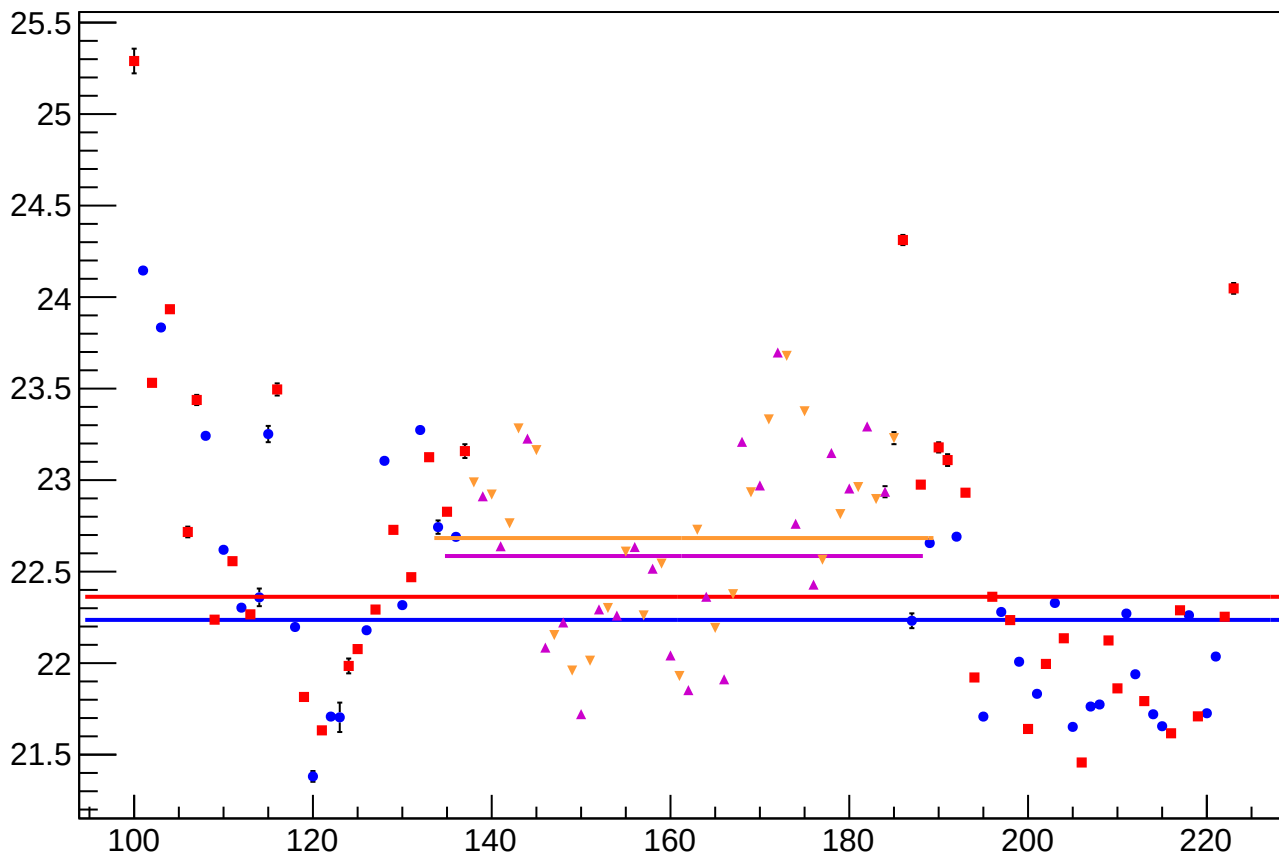
Right: 4.093 ± 3.497 χ^2/NDF : 69.7/73

In: 1.919 ± 3.662 χ^2/NDF : 51.9/57

Out: 8.473 ± 3.595 χ^2/NDF : 71.1/63

All: 5.256 ± 2.565 χ^2/NDF : 124.7/121

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Left: 22.635 +/- 0.003 χ^2/NDF : 34743.7/47

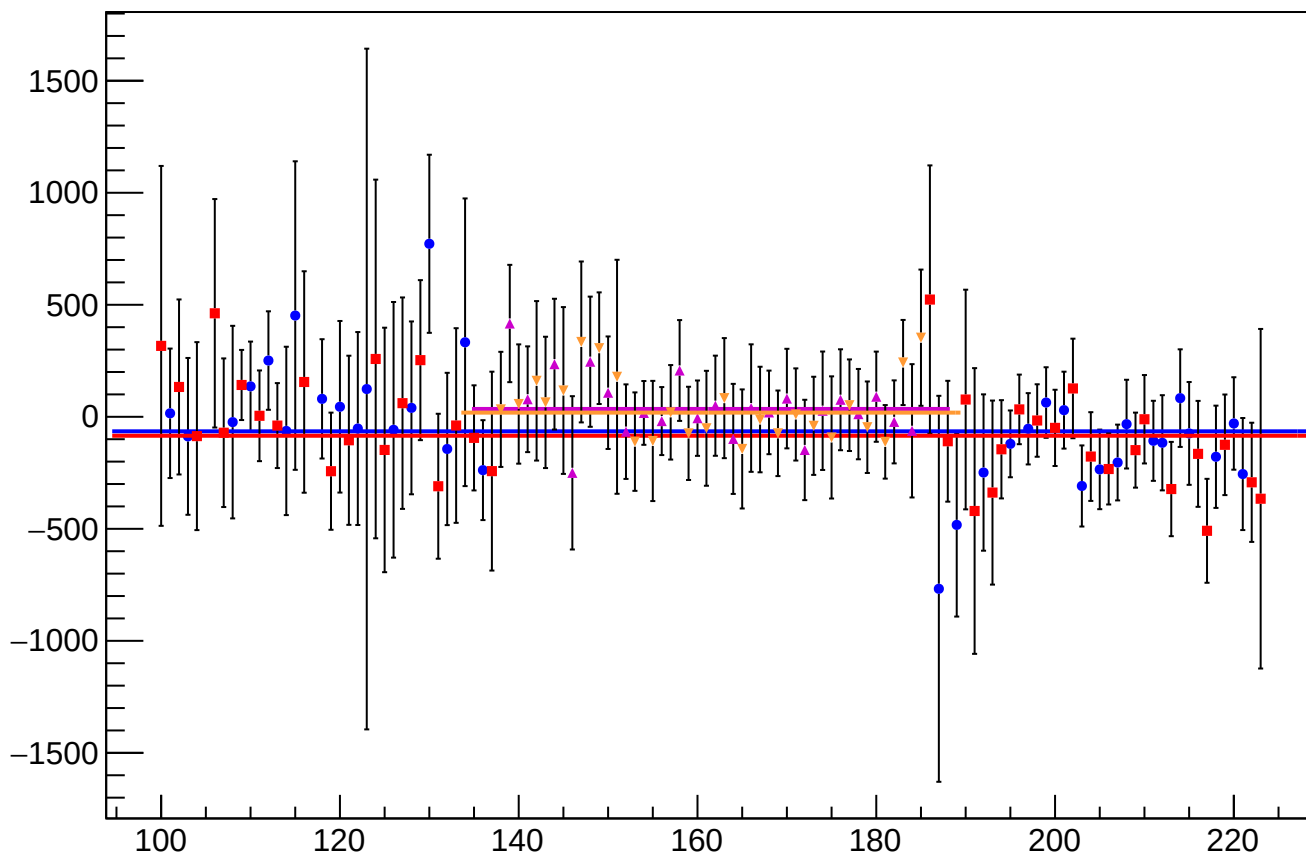
Right: 22.300 +/- 0.002 χ^2/NDF : 67534.6/73

In: 22.397 +/- 0.003 χ^2/NDF : 50931.6/57

Out: 22.511 +/- 0.003 χ^2/NDF : 58834.7/63

All: 22.455 +/- 0.002 χ^2/NDF : 110766.7/121

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.821 ± 40.698 $\chi^2/\text{NDF}: 17.6/34$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -84.569 ± 40.598 $\chi^2/\text{NDF}: 17.0/38$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

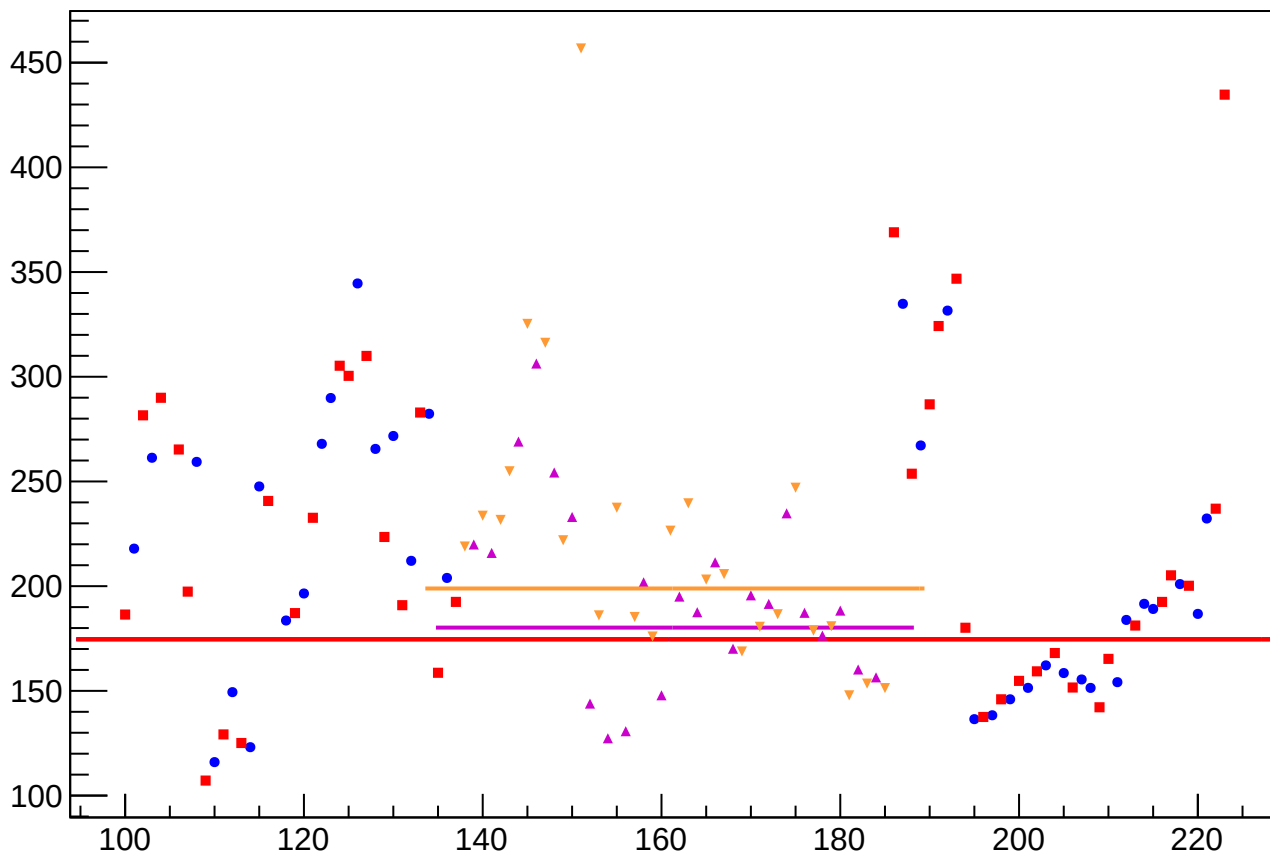
Right: -74.719 ± 28.743 $\chi^2/\text{NDF}: 34.7/73$

In: -19.957 ± 30.204 $\chi^2/\text{NDF}: 26.6/57$

Out: -41.536 ± 30.999 $\chi^2/\text{NDF}: 27.2/63$

All: -30.466 ± 21.633 $\chi^2/\text{NDF}: 54.1/121$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.560 $\pm$ 0.029 χ^2 /NDF: 2324317.6/34

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 174.732 $\pm$ 0.029 χ^2 /NDF: 3281070.0/38

Left In: 180.207 $\pm$ 0.032 χ^2 /NDF:1589005.4/22

Left: 188.959 $\pm$ 0.023 χ^2 /NDF: 3512499.2/47

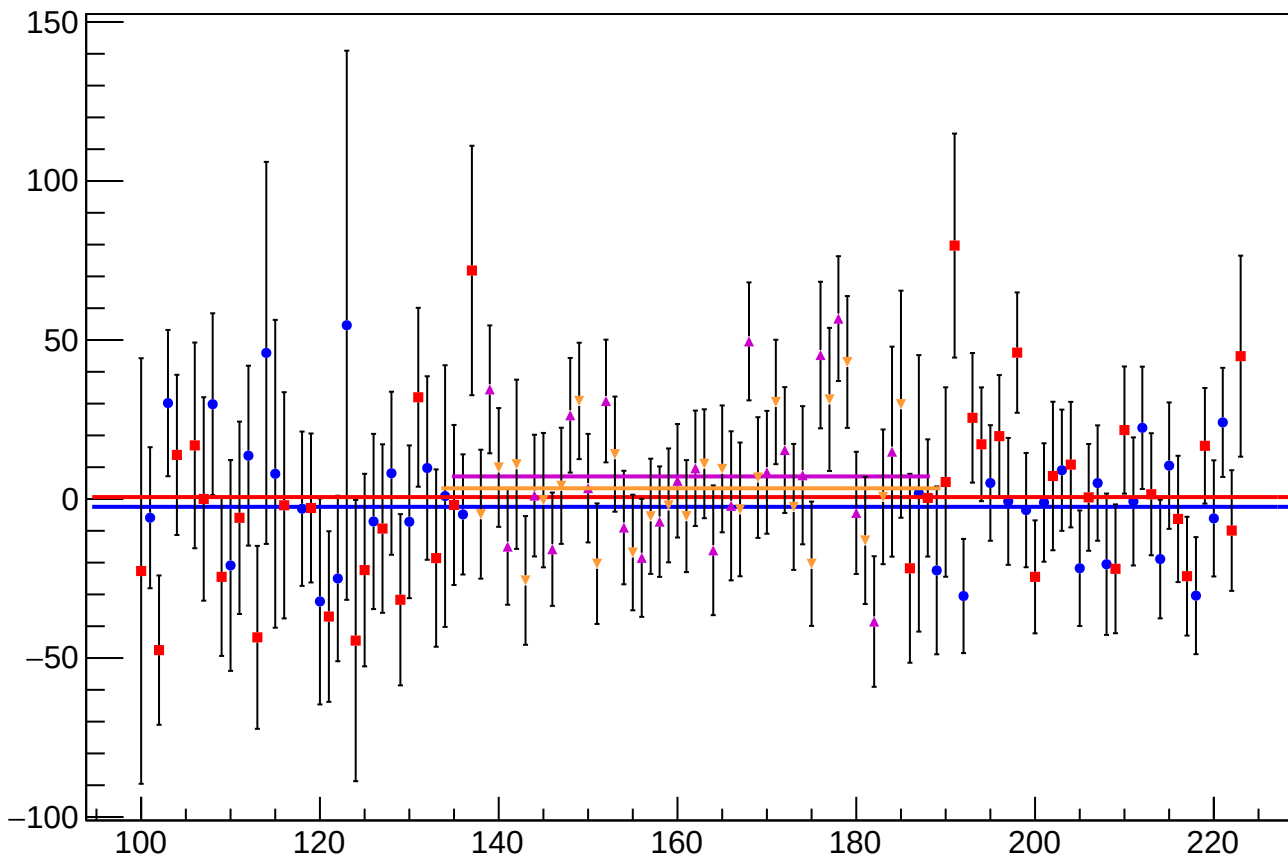
Right: 174.646 $\pm$ 0.020 χ^2 /NDF: 5605405.4/73

In: 177.097 $\pm$ 0.021 χ^2 /NDF:3930620.8/57

Out: 184.805 $\pm$ 0.022 χ^2 /NDF:5338842.5/63

All: 180.851 $\pm$ 0.015 χ^2 /NDF: 9332902.2/123

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.461 ± 3.813 χ^2/NDF : 20.3/34

Left Out: 3.372 ± 3.947 χ^2/NDF : 18.8/24

Right Out: 0.610 ± 3.761 χ^2/NDF : 42.9/38

Left In: 7.099 ± 4.047 χ^2/NDF : 32.5/22

Left: 5.189 ± 2.826 χ^2/NDF : 51.8/47

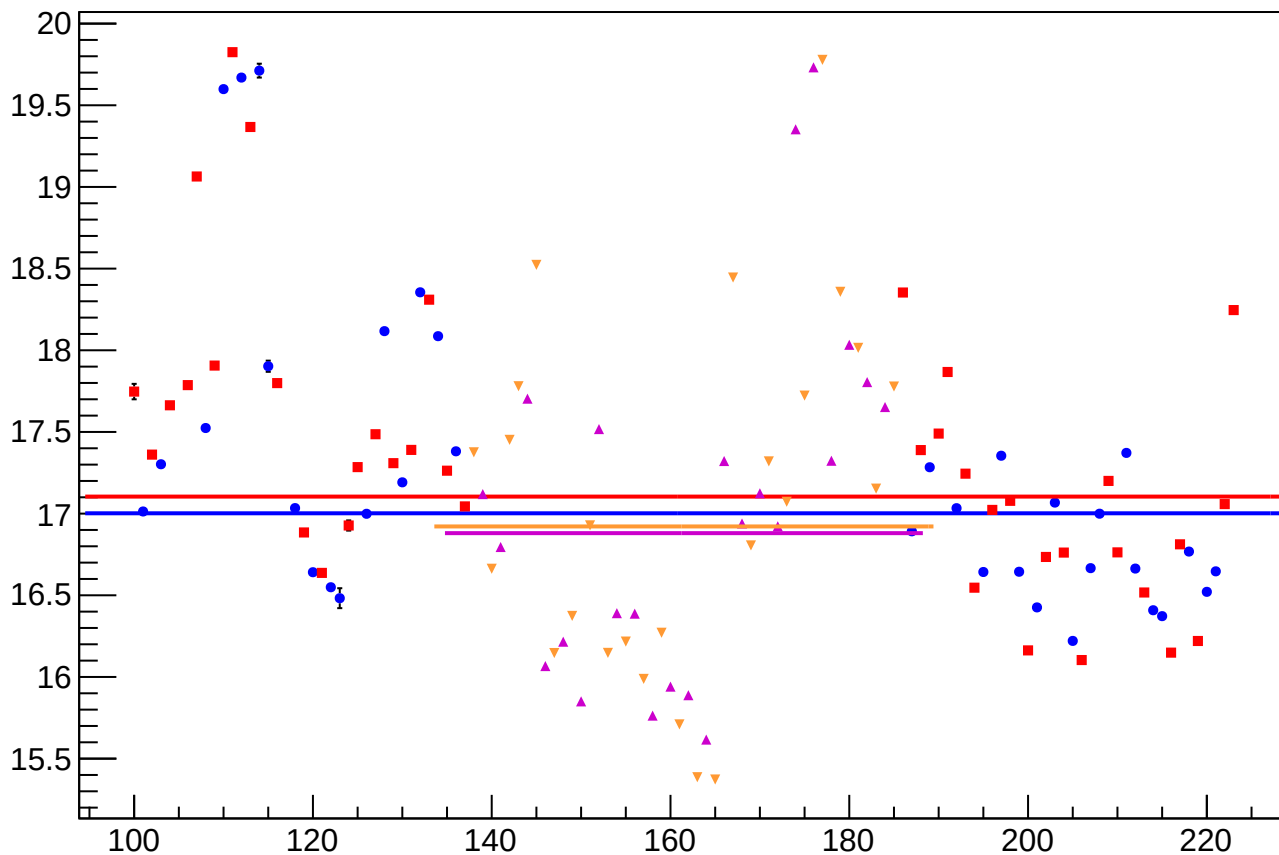
Right: -0.905 ± 2.678 χ^2/NDF : 63.5/73

In: 2.033 ± 2.775 χ^2/NDF : 55.7/57

Out: 1.924 ± 2.723 χ^2/NDF : 61.9/63

All: 1.978 ± 1.944 χ^2/NDF : 117.7/121

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.002 $\pm$ 0.003 χ^2/NDF : 63928.7/34

Left Out: 16.921 $\pm$ 0.003 χ^2/NDF :138990.4/24

Right Out: 17.104 $\pm$ 0.003 χ^2/NDF : 82823.1/38

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

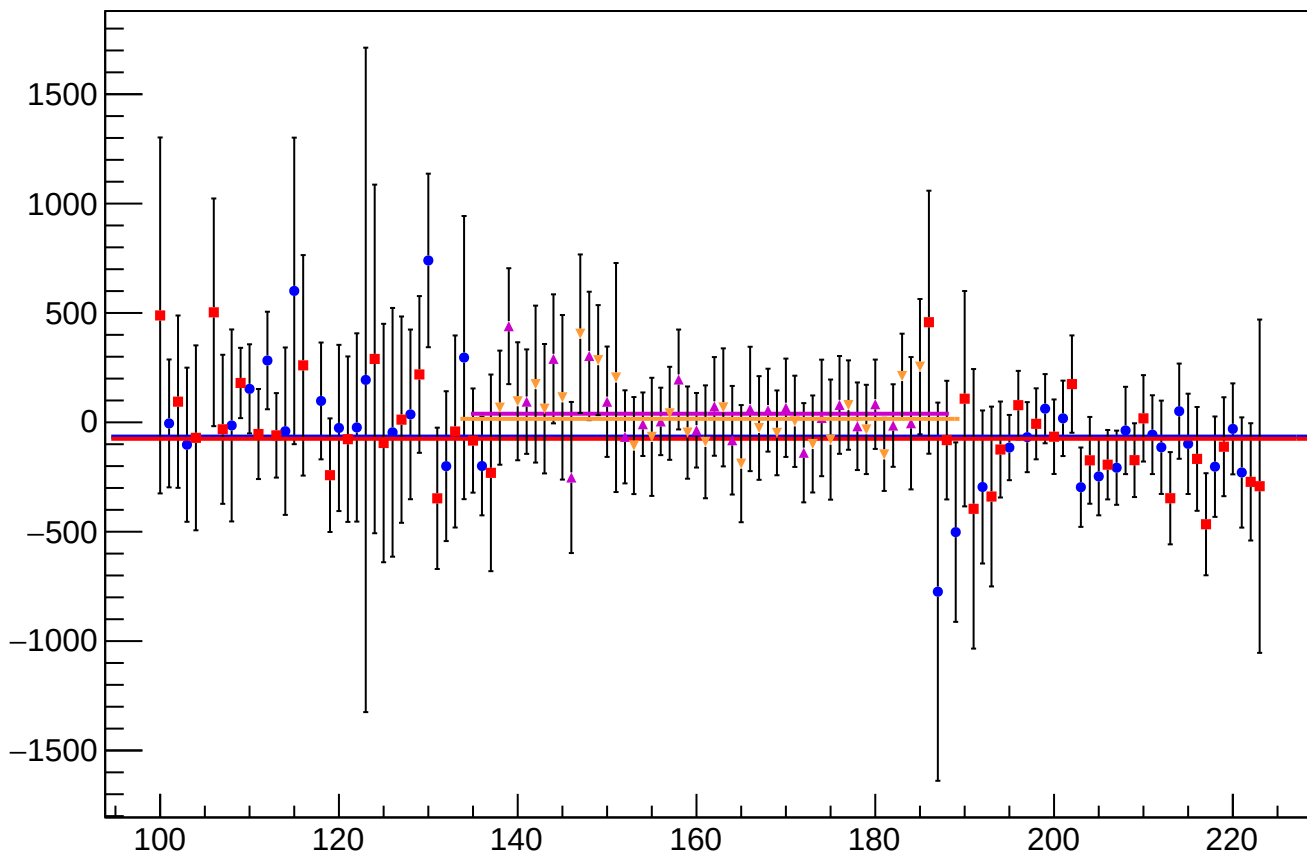
Right: 17.054 $\pm$ 0.002 χ^2/NDF : 147480.8/73

In: 16.945 $\pm$ 0.002 χ^2/NDF :186621.0/57

Out: 17.017 $\pm$ 0.002 χ^2/NDF :224062.1/63

All: 16.982 $\pm$ 0.001 χ^2/NDF : 411376.8/121

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -65.146 ± 40.924 $\chi^2/\text{NDF}: 17.8/34$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -75.185 ± 40.891 $\chi^2/\text{NDF}: 17.7/38$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

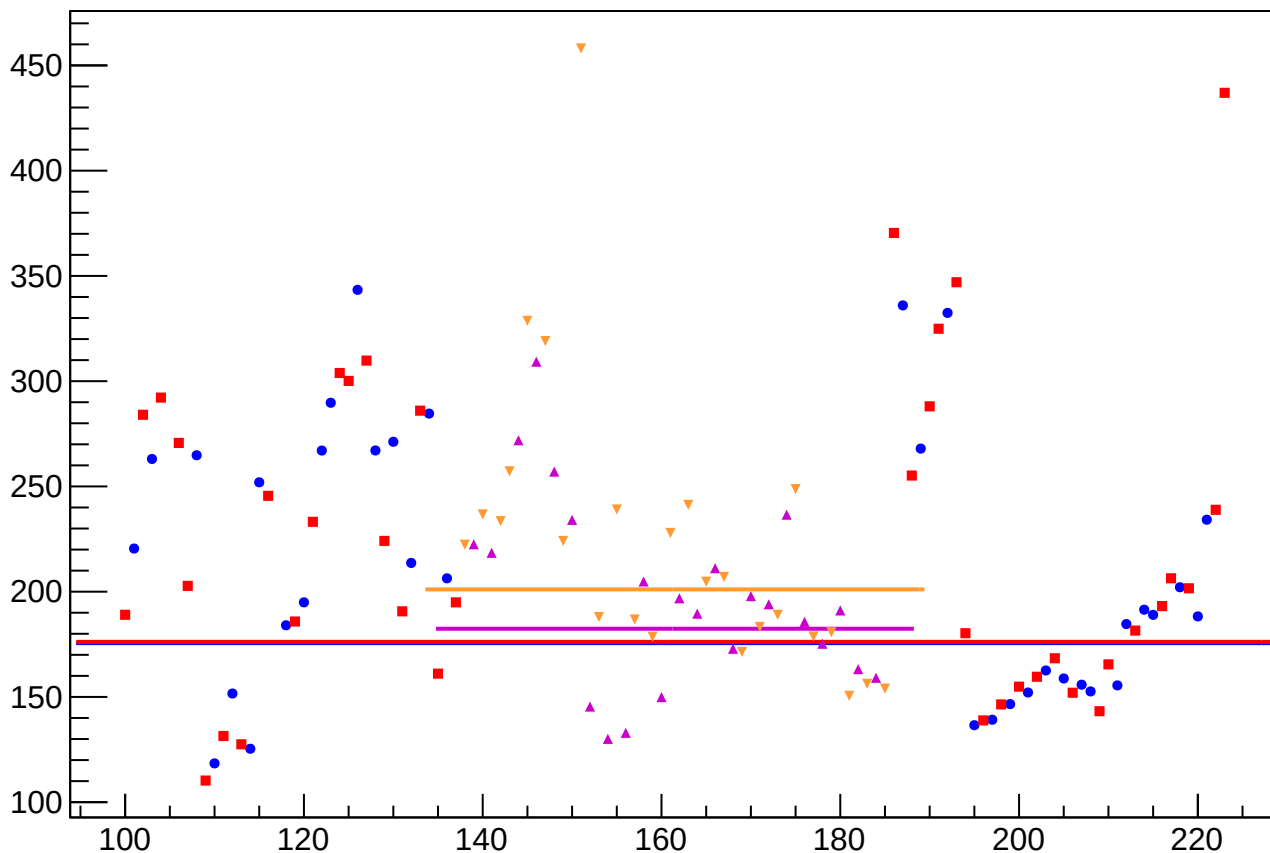
Right: -70.170 ± 28.926 $\chi^2/\text{NDF}: 35.6/73$

In: -18.484 ± 30.448 $\chi^2/\text{NDF}: 27.6/57$

Out: -37.314 ± 31.263 $\chi^2/\text{NDF}: 27.2/63$

All: -27.651 ± 21.813 $\chi^2/\text{NDF}: 54.9/121$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.570 $\pm$ 0.029 χ^2 /NDF: 2308018.7/34

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 176.167 $\pm$ 0.029 χ^2 /NDF: 3220169.4/38

Left In: 182.396 $\pm$ 0.032 χ^2 /NDF:1548907.7/22

Left: 191.161 $\pm$ 0.023 χ^2 /NDF: 3437793.2/47

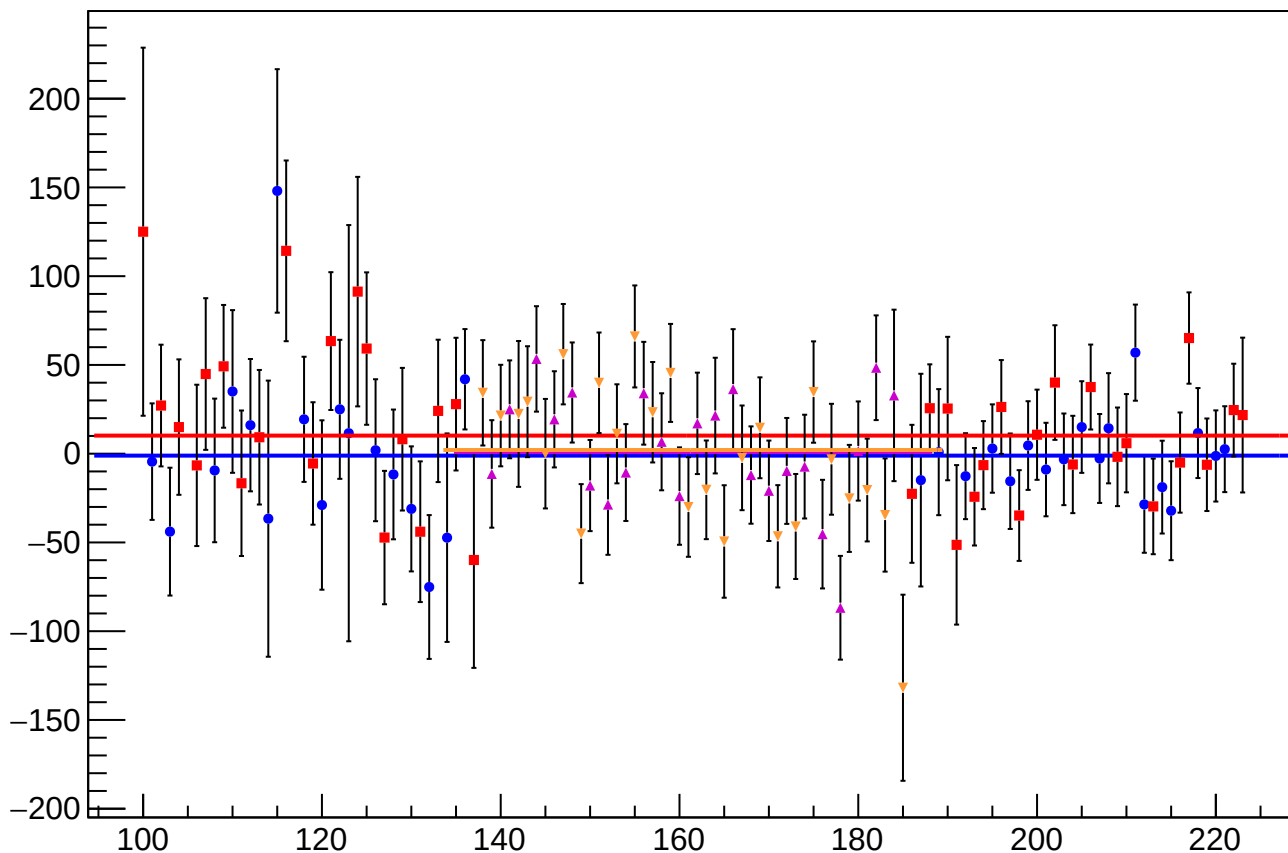
Right: 175.869 $\pm$ 0.020 χ^2 /NDF: 5528401.5/73

In: 178.617 $\pm$ 0.022 χ^2 /NDF:3881770.5/57

Out: 186.522 $\pm$ 0.022 χ^2 /NDF:5259939.6/63

All: 182.465 $\pm$ 0.015 χ^2 /NDF: 9207331.7/123

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.092 ± 5.354 χ^2/NDF : 24.4/34

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 10.187 ± 5.259 χ^2/NDF : 38.2/38

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

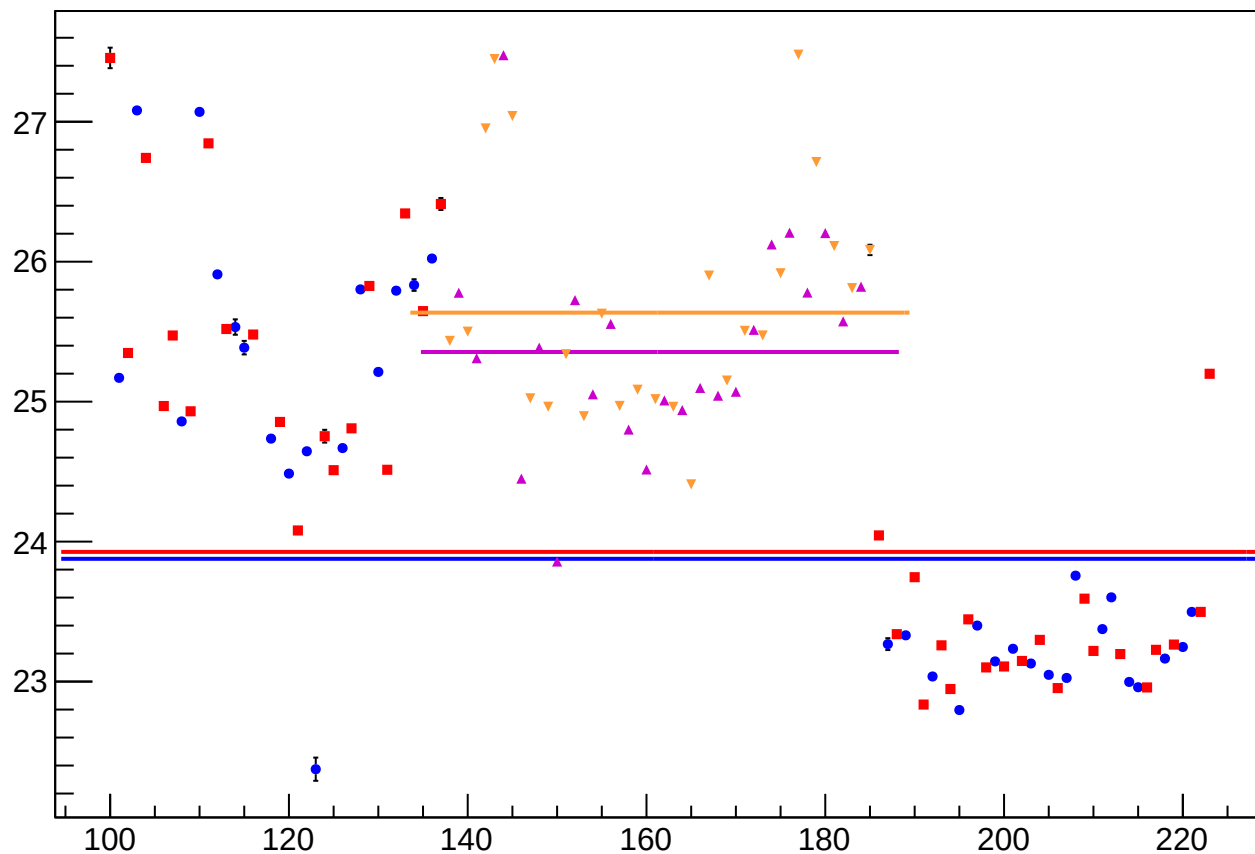
Right: 4.649 ± 3.752 χ^2/NDF : 64.9/73

In: -0.220 ± 4.015 χ^2/NDF : 51.6/57

Out: 6.633 ± 3.946 χ^2/NDF : 78.7/63

All: 3.266 ± 2.815 χ^2/NDF : 131.7/121

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.877 ± 0.004 $\chi^2/\text{NDF}: 92755.8/34$

Left Out: 25.636 ± 0.004 $\chi^2/\text{NDF}: 35130.7/24$

Right Out: 23.927 ± 0.004 $\chi^2/\text{NDF}: 88043.8/38$

Left In: 25.355 ± 0.004 $\chi^2/\text{NDF}: 29766.2/22$

Left: 25.498 ± 0.003 $\chi^2/\text{NDF}: 67081.3/47$

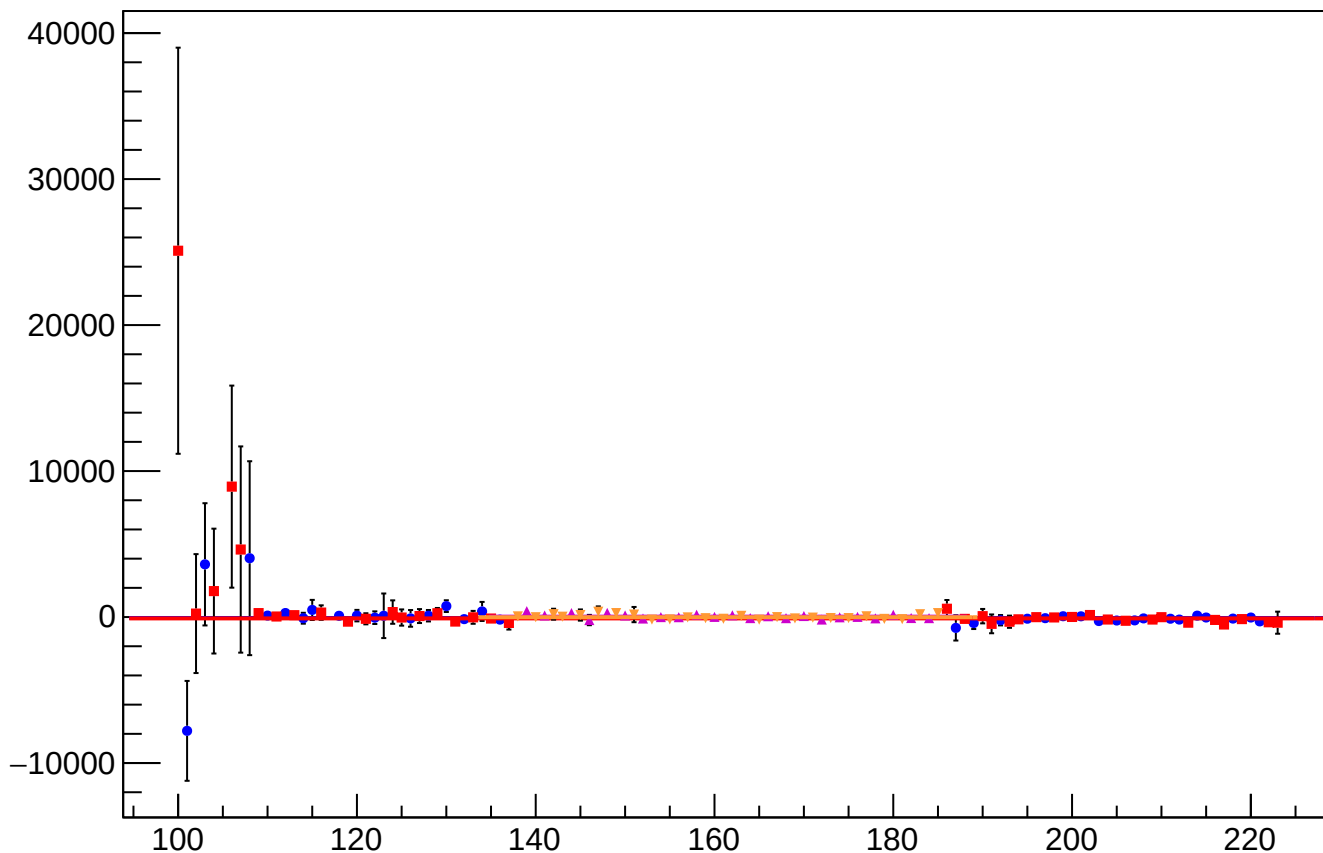
Right: 23.902 ± 0.003 $\chi^2/\text{NDF}: 180886.3/73$

In: 24.524 ± 0.003 $\chi^2/\text{NDF}: 189183.6/57$

Out: 24.673 ± 0.003 $\chi^2/\text{NDF}: 215512.1/63$

All: 24.600 ± 0.002 $\chi^2/\text{NDF}: 406110.4/121$

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.527 ± 42.597 $\chi^2/\text{NDF}: 22.9/34$

Left Out: -12.820 ± 48.216 $\chi^2/\text{NDF}: 7.9/24$

Right Out: -92.342 ± 43.163 $\chi^2/\text{NDF}: 25.5/38$

Left In: 26.836 ± 45.876 $\chi^2/\text{NDF}: 7.5/22$

Left: 7.994 ± 33.236 $\chi^2/\text{NDF}: 15.7/47$

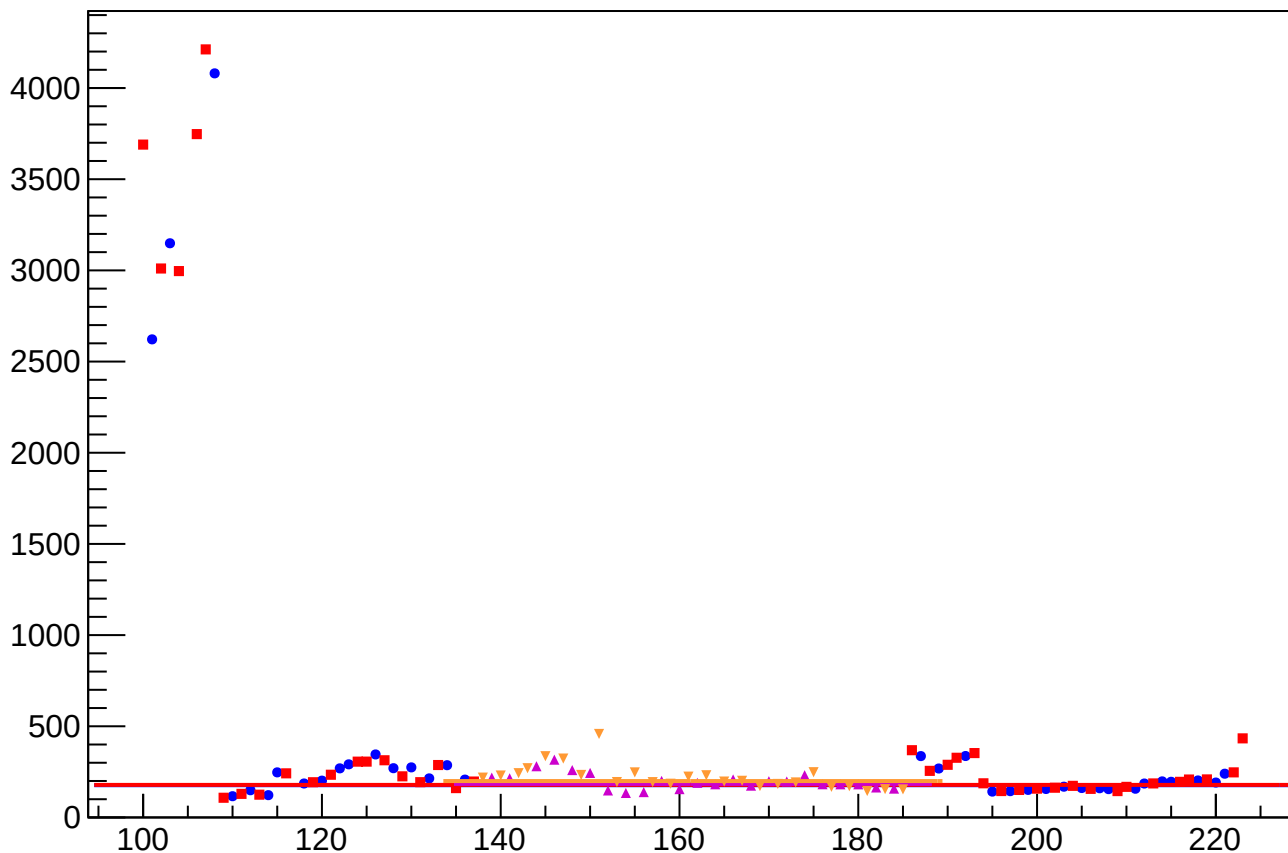
Right: -78.251 ± 30.319 $\chi^2/\text{NDF}: 48.6/73$

In: -22.227 ± 31.215 $\chi^2/\text{NDF}: 32.5/57$

Out: -56.965 ± 32.160 $\chi^2/\text{NDF}: 34.9/63$

All: -39.078 ± 22.399 $\chi^2/\text{NDF}: 68.0/121$

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.861+/-0.030 χ^2/NDF : 4733552.7/34

Left Out: 199.536+/-0.034 χ^2/NDF :1880548.8/24

Right Out: 178.520+/-0.031 χ^2/NDF : 5858516.3/38

Left In: 184.031+/-0.032 χ^2/NDF :1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

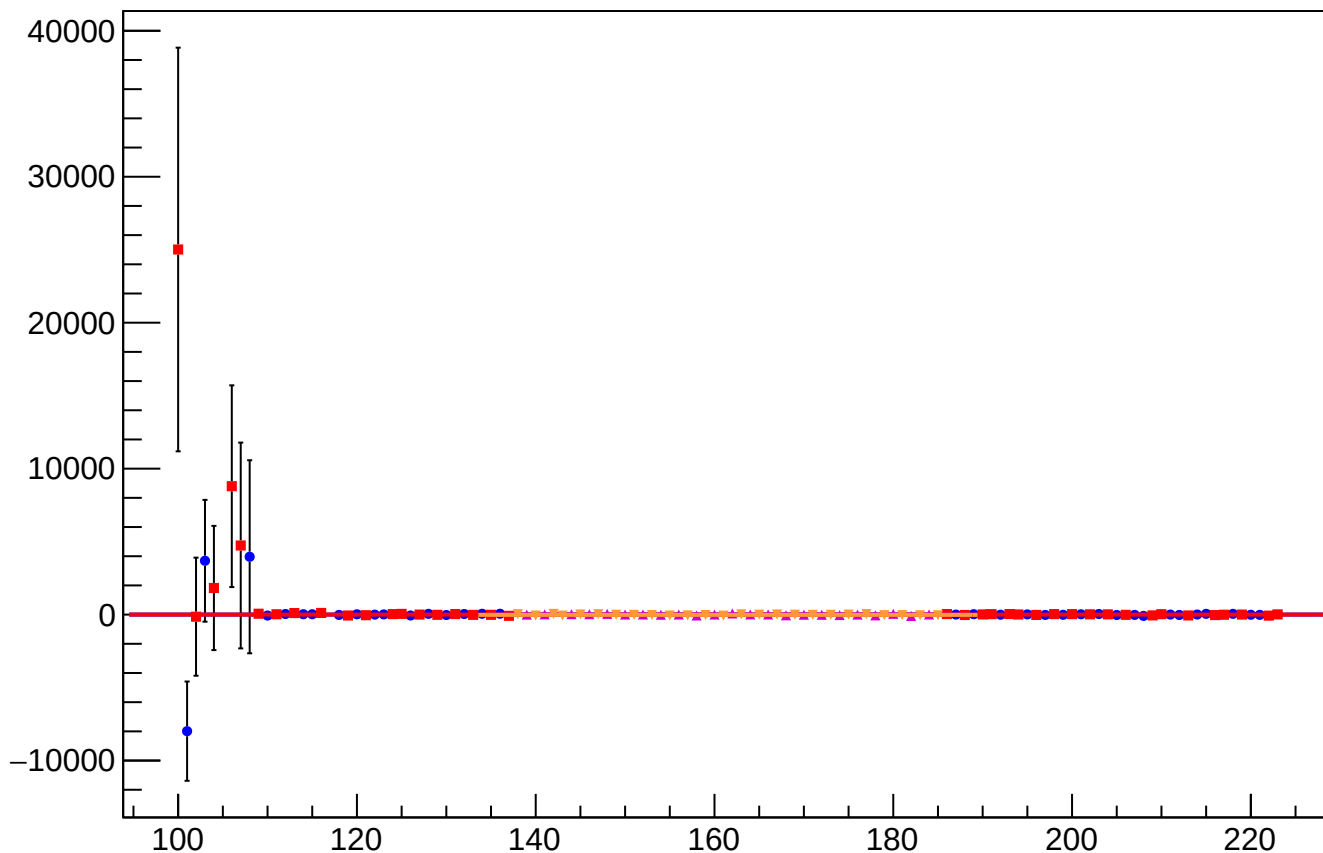
Right: 177.680+/-0.021 χ^2/NDF : 10593564.4/73

In: 180.181+/-0.022 χ^2/NDF :6183242.5/57

Out: 187.869+/-0.023 χ^2/NDF :7949990.6/63

All: 183.911+/-0.016 χ^2/NDF : 14192083.9/12

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.573+/-6.432 χ^2/NDF : 37.0/34

Left Out: -17.580+/-6.694 χ^2/NDF : 22.3/24

Right Out: 1.038+/-6.431 χ^2/NDF : 44.0/38

Left In: 1.038+/-6.880 χ^2/NDF : 32.4/22

Left: -8.527+/-4.798 χ^2/NDF : 58.5/47

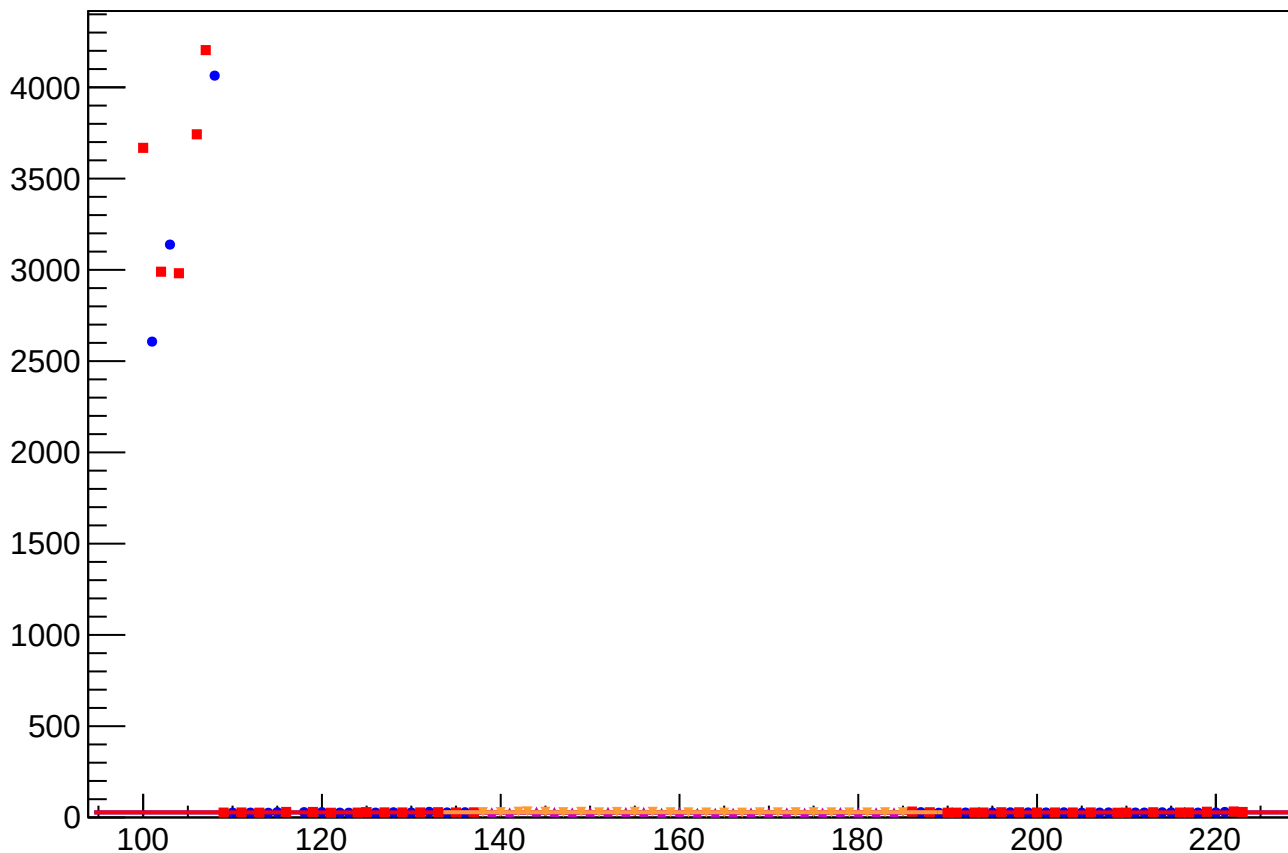
Right: 1.806+/-4.548 χ^2/NDF : 81.0/73

In: 1.857+/-4.699 χ^2/NDF : 69.4/57

Out: -7.899+/-4.638 χ^2/NDF : 70.3/63

All: -3.085+/-3.301 χ^2/NDF : 141.9/121

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.584 $\pm$ 0.005 χ^2 /NDF: 3059875.6/34

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.760 $\pm$ 0.005 χ^2 /NDF: 3579924.1/38

Left In: 28.673 $\pm$ 0.005 χ^2 /NDF: 124751.4/22

Left: 28.682 $\pm$ 0.003 χ^2 /NDF: 235242.3/47

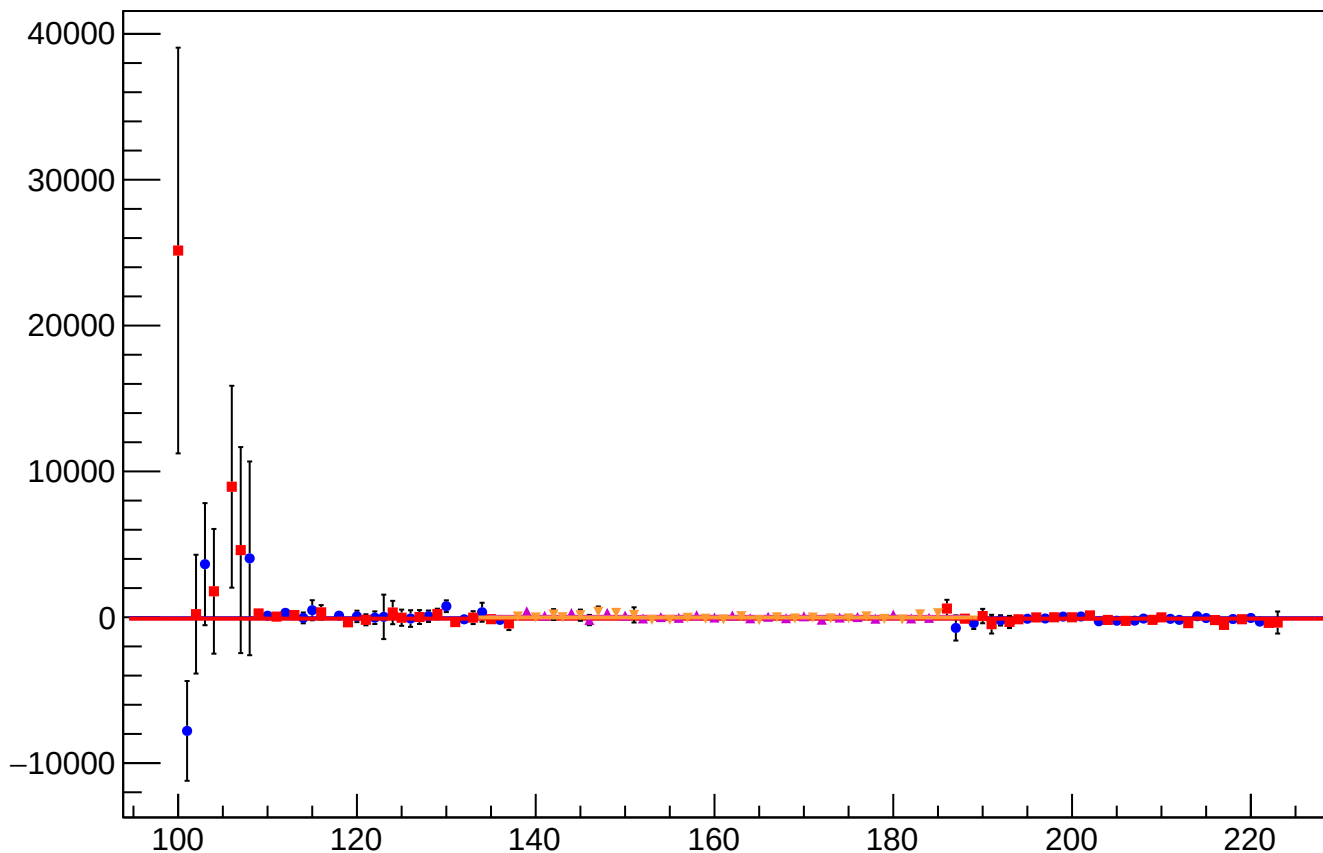
Right: 27.672 $\pm$ 0.003 χ^2 /NDF: 6640552.8/73

In: 28.092 $\pm$ 0.003 χ^2 /NDF: 3211371.0/57

Out: 28.207 $\pm$ 0.003 χ^2 /NDF: 3710511.6/63

All: 28.150 $\pm$ 0.002 χ^2 /NDF: 6922492.8/121

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -65.906 ± 42.466 $\chi^2/\text{NDF}: 23.0/34$

Left Out: -15.483 ± 48.109 $\chi^2/\text{NDF}: 8.7/24$

Right Out: -95.235 ± 43.039 $\chi^2/\text{NDF}: 26.7/38$

Left In: 27.009 ± 45.785 $\chi^2/\text{NDF}: 7.8/22$

Left: 6.815 ± 33.166 $\chi^2/\text{NDF}: 16.9/47$

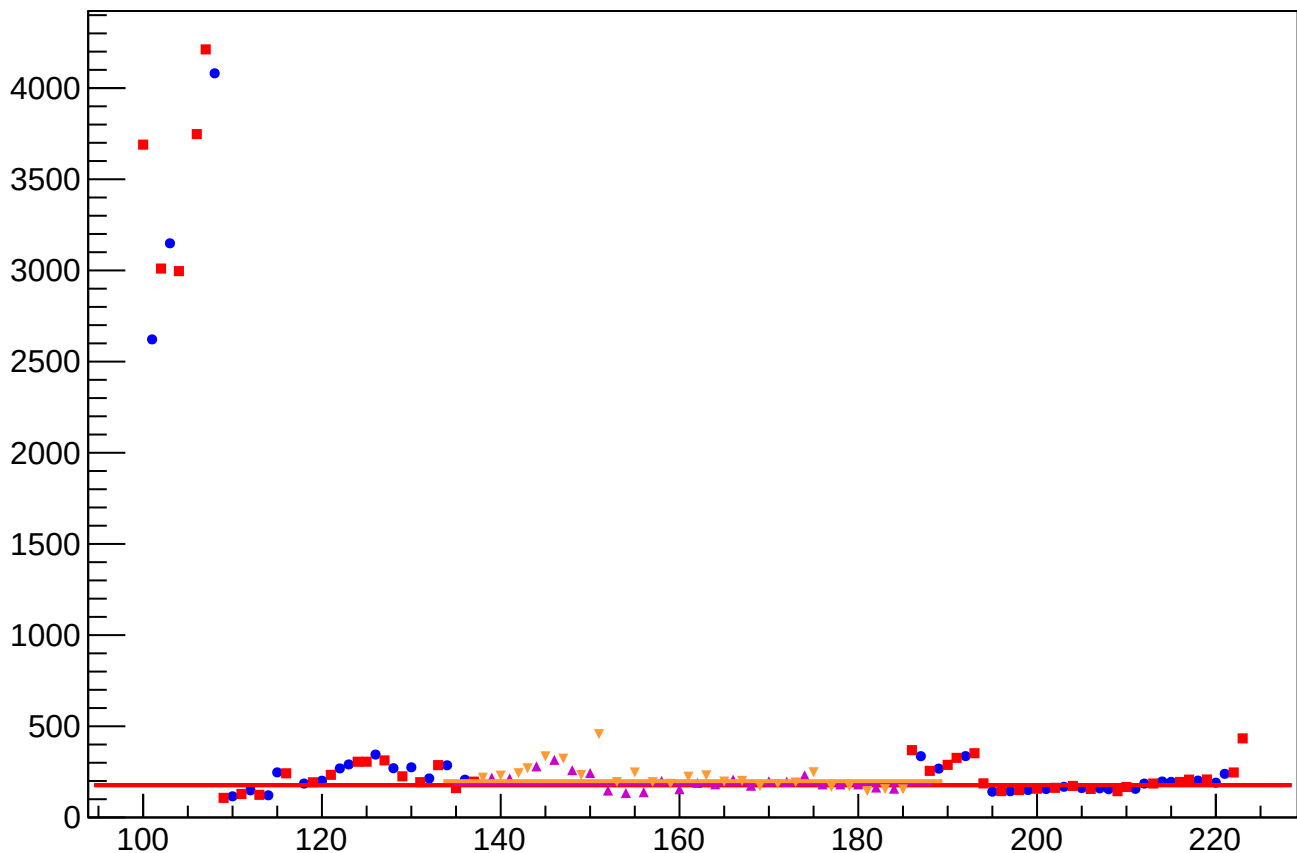
Right: -80.374 ± 30.229 $\chi^2/\text{NDF}: 50.0/73$

In: -22.937 ± 31.135 $\chi^2/\text{NDF}: 33.1/57$

Out: -59.781 ± 32.076 $\chi^2/\text{NDF}: 36.9/63$

All: -40.811 ± 22.341 $\chi^2/\text{NDF}: 70.7/121$

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.284+/-0.030 χ^2/NDF : 4747438.8/34

Left Out: 199.094+/-0.034 χ^2/NDF : 1880343.4/24

Right Out: 177.957+/-0.030 χ^2/NDF : 5878048.8/38

Left In: 183.667+/-0.032 χ^2/NDF : 1422895.7/22

Left: 190.999+/-0.023 χ^2/NDF : 3411149.8/47

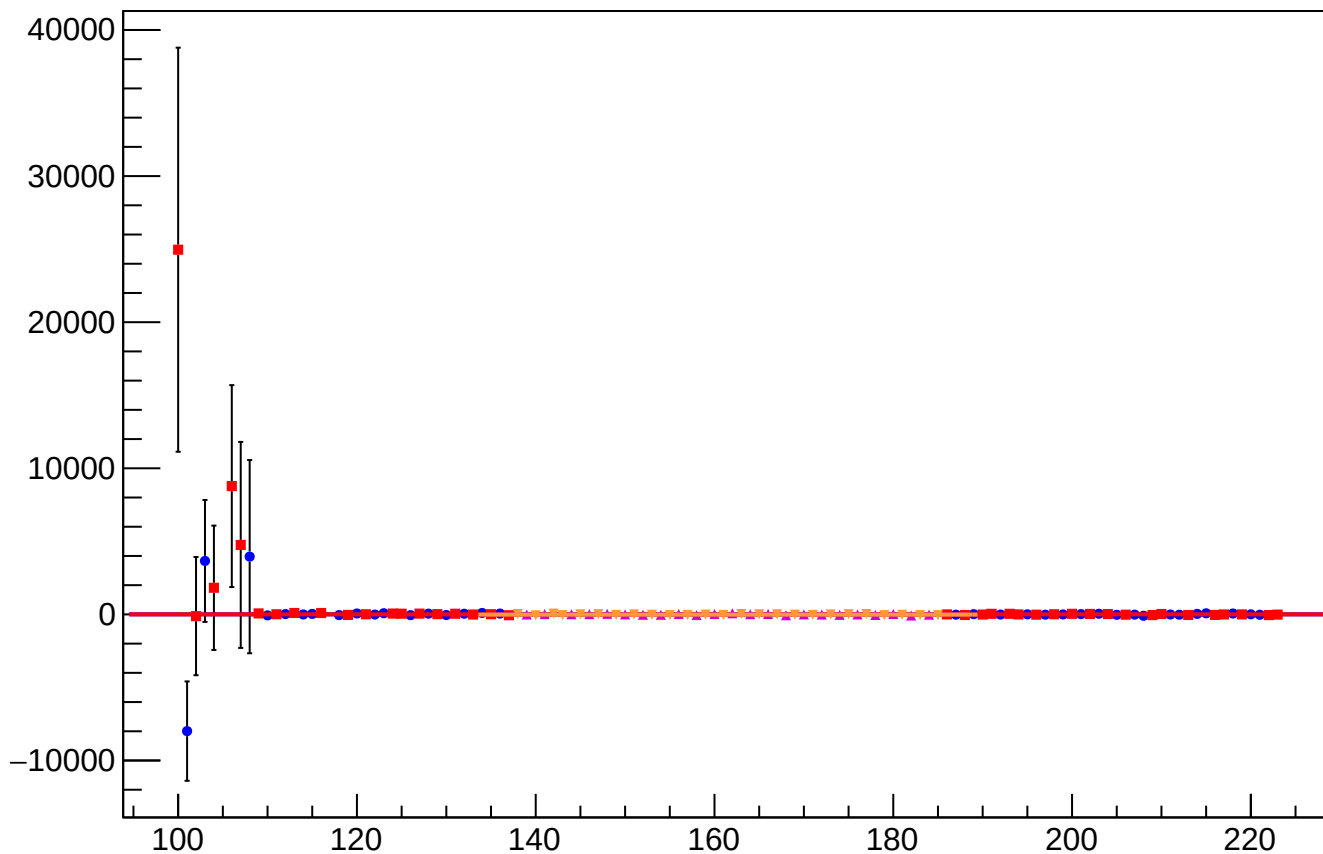
Right: 177.109+/-0.021 χ^2/NDF : 10627019.6/73

In: 179.698+/-0.022 χ^2/NDF : 6198293.5/57

Out: 187.353+/-0.023 χ^2/NDF : 7972827.1/63

All: 183.412+/-0.016 χ^2/NDF : 14229772.1/12

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.737 $\pm$ 6.388 χ^2 /NDF: 46.1/34

Left Out: -15.006 $\pm$ 6.723 χ^2 /NDF:17.5/24

Right Out: 4.331 $\pm$ 6.398 χ^2 /NDF: 37.0/38

Left In: -0.702 $\pm$ 6.909 χ^2 /NDF:26.4/22

Left: -8.049 $\pm$ 4.819 χ^2 /NDF: 46.0/47

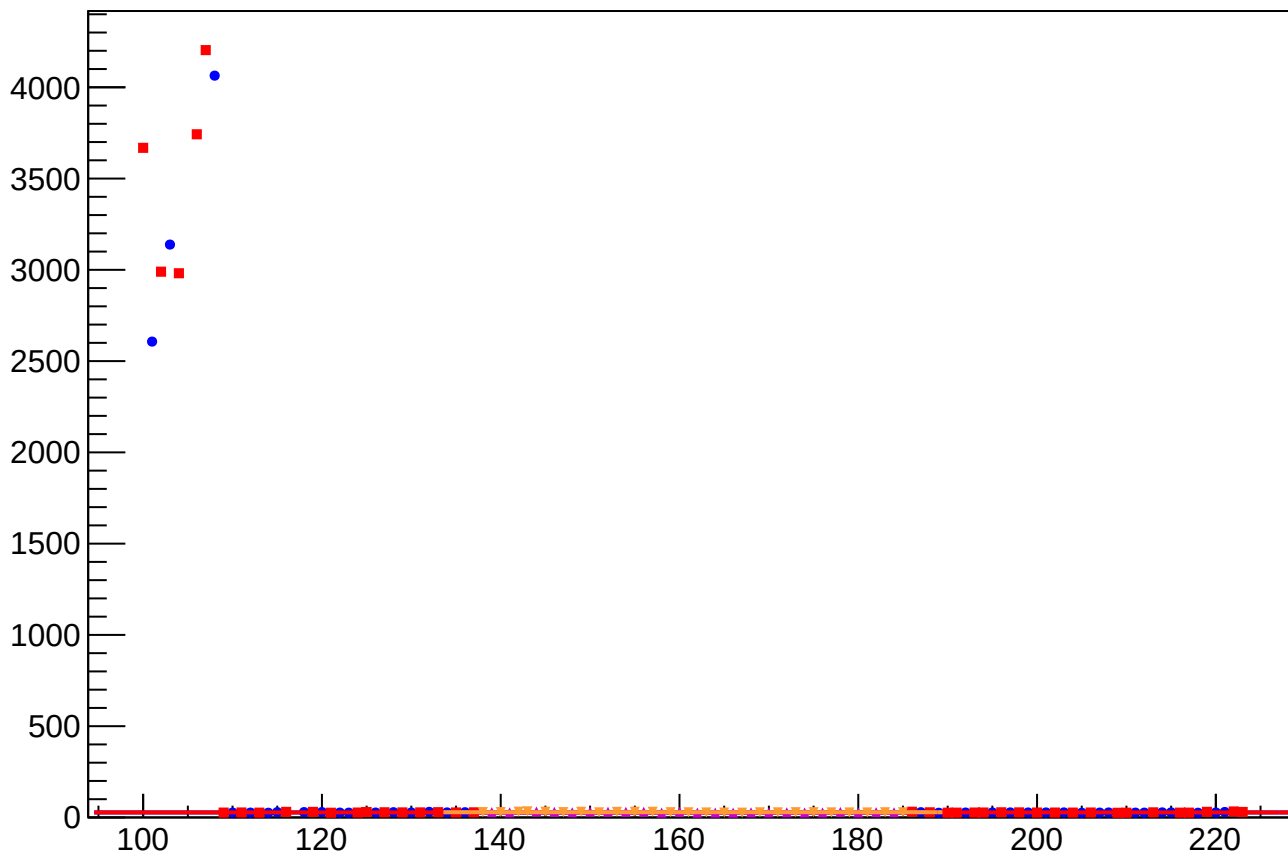
Right: 4.034 $\pm$ 4.521 χ^2 /NDF: 83.0/73

In: 1.691 $\pm$ 4.690 χ^2 /NDF:72.6/57

Out: -4.859 $\pm$ 4.635 χ^2 /NDF:58.8/63

All: -1.623 $\pm$ 3.297 χ^2 /NDF: 132.4/121

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.388 $\pm$ 0.005 χ^2 /NDF: 3071301.7/34

Left Out: 28.813 $\pm$ 0.005 χ^2 /NDF:121973.8/24

Right Out: 27.615 $\pm$ 0.005 χ^2 /NDF: 3587069.1/38

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

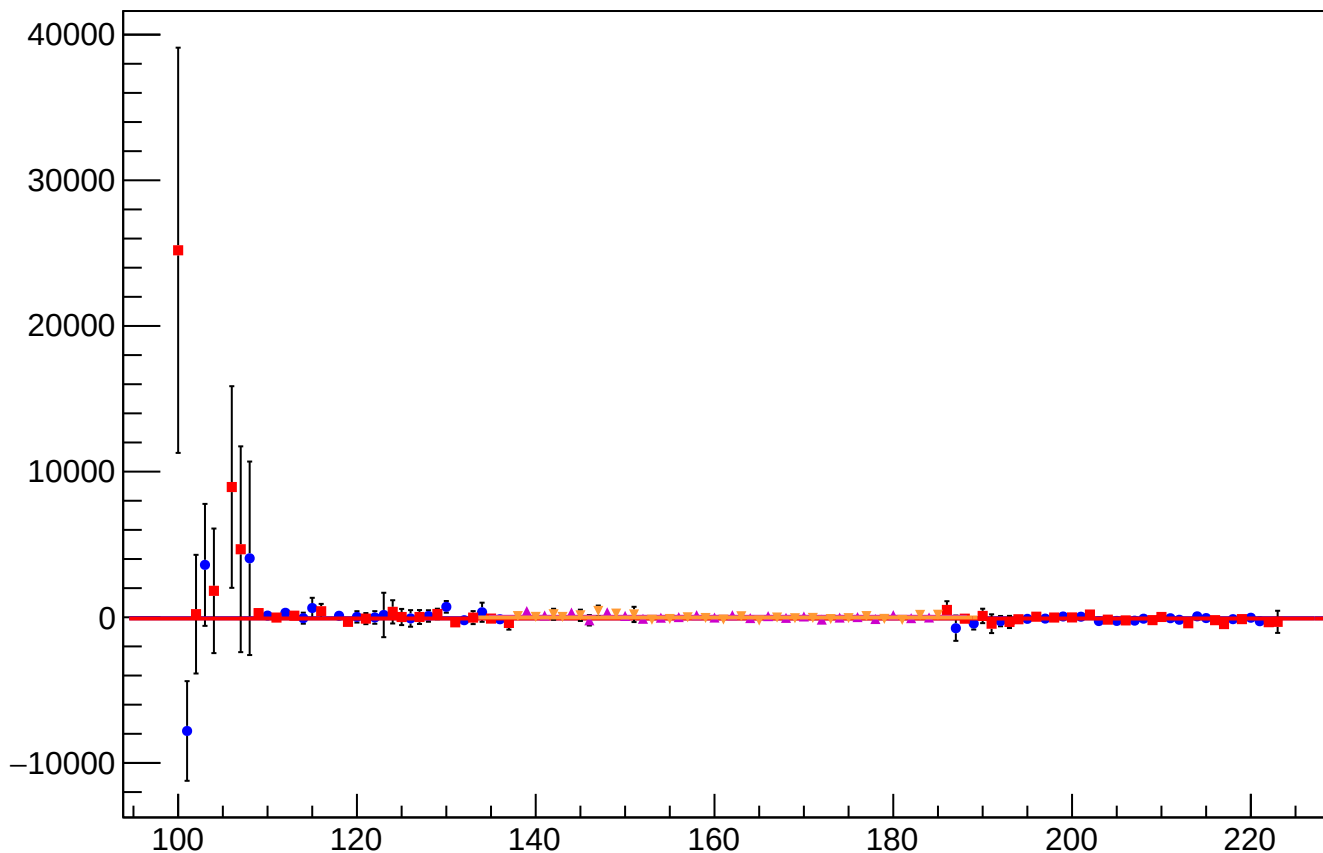
Right: 27.501 $\pm$ 0.003 χ^2 /NDF: 6659628.9/73

In: 28.035 $\pm$ 0.003 χ^2 /NDF:3245251.3/57

Out: 28.184 $\pm$ 0.003 χ^2 /NDF:3742359.1/63

All: 28.111 $\pm$ 0.002 χ^2 /NDF: 6988629.6/121

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -64.001 ± 42.756 χ^2/NDF : 23.0/34

Left Out: -15.548 ± 48.688 χ^2/NDF : 8.0/24

Right Out: -85.510 ± 43.352 χ^2/NDF : 25.2/38

Left In: 31.170 ± 46.359 χ^2/NDF : 8.2/22

Left: 8.955 ± 33.574 χ^2/NDF : 16.6/47

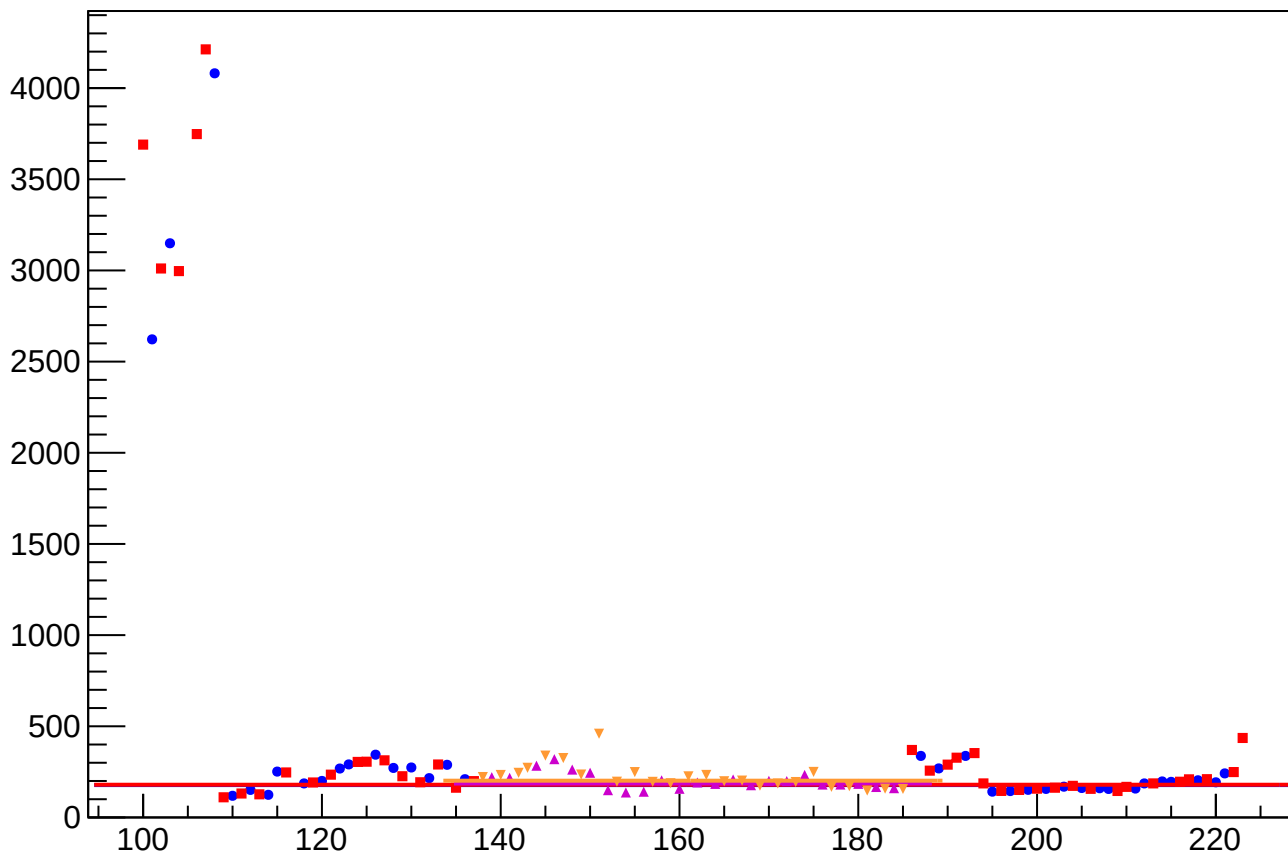
Right: -74.606 ± 30.442 χ^2/NDF : 48.4/73

In: -20.257 ± 31.430 χ^2/NDF : 33.4/57

Out: -54.571 ± 32.377 χ^2/NDF : 34.4/63

All: -36.904 ± 22.552 χ^2/NDF : 68.4/121

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.573+/-0.030 χ^2/NDF : 4714895.4/34

Left Out: 201.600+/-0.034 χ^2/NDF : 1857453.2/24

Right Out: 179.426+/-0.031 χ^2/NDF : 5817647.7/38

Left In: 186.107+/-0.033 χ^2/NDF : 1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

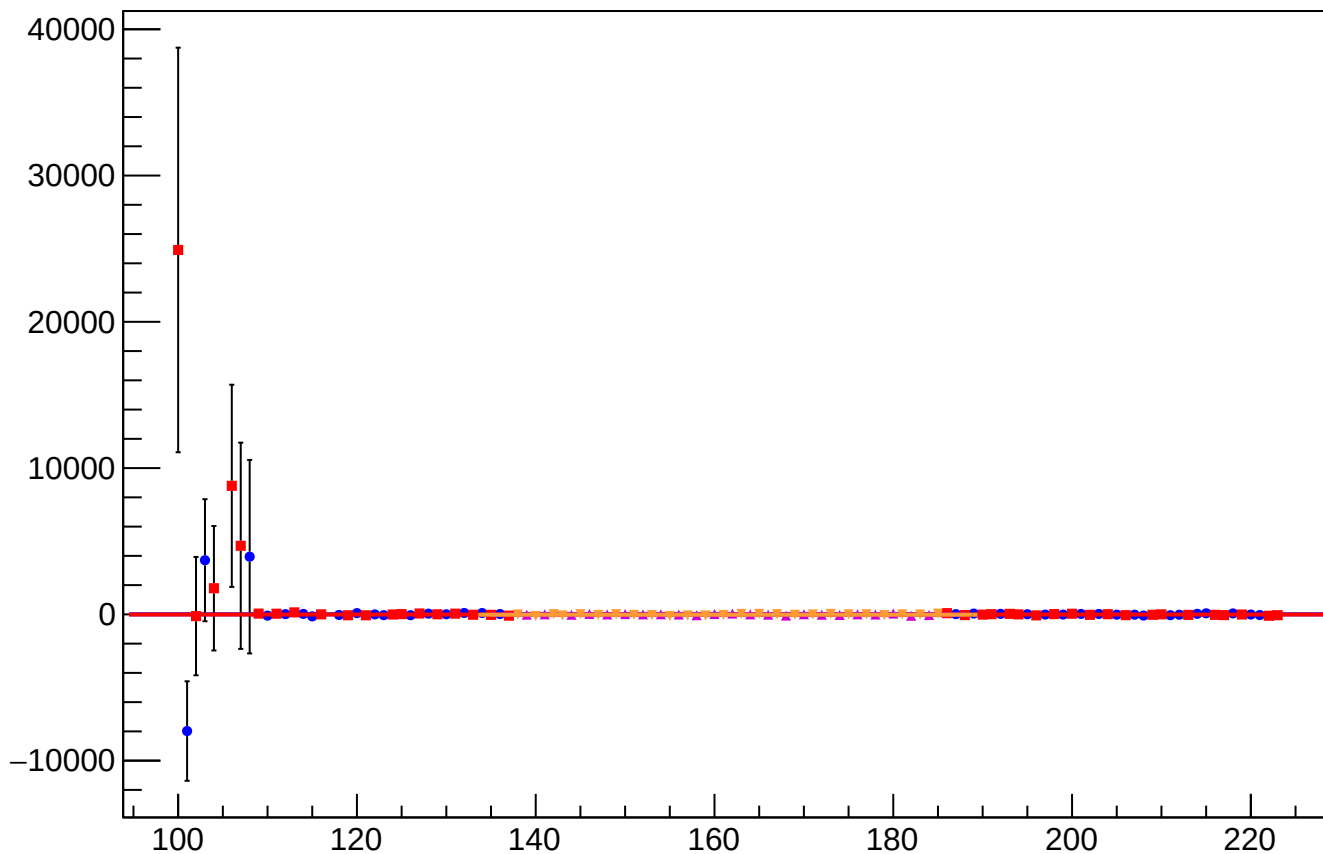
Right: 178.487+/-0.022 χ^2/NDF : 10534396.0/73

In: 181.496+/-0.022 χ^2/NDF : 6142845.2/57

Out: 189.232+/-0.023 χ^2/NDF : 7906479.8/63

All: 185.249+/-0.016 χ^2/NDF : 14108117.3/12

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.843 ± 7.774 $\chi^2/\text{NDF}: 40.2/34$

Left Out: -23.360 ± 8.064 $\chi^2/\text{NDF}: 25.8/24$

Right Out: -10.405 ± 7.773 $\chi^2/\text{NDF}: 43.0/38$

Left In: -6.001 ± 8.309 $\chi^2/\text{NDF}: 21.1/22$

Left: -14.939 ± 5.787 $\chi^2/\text{NDF}: 49.2/47$

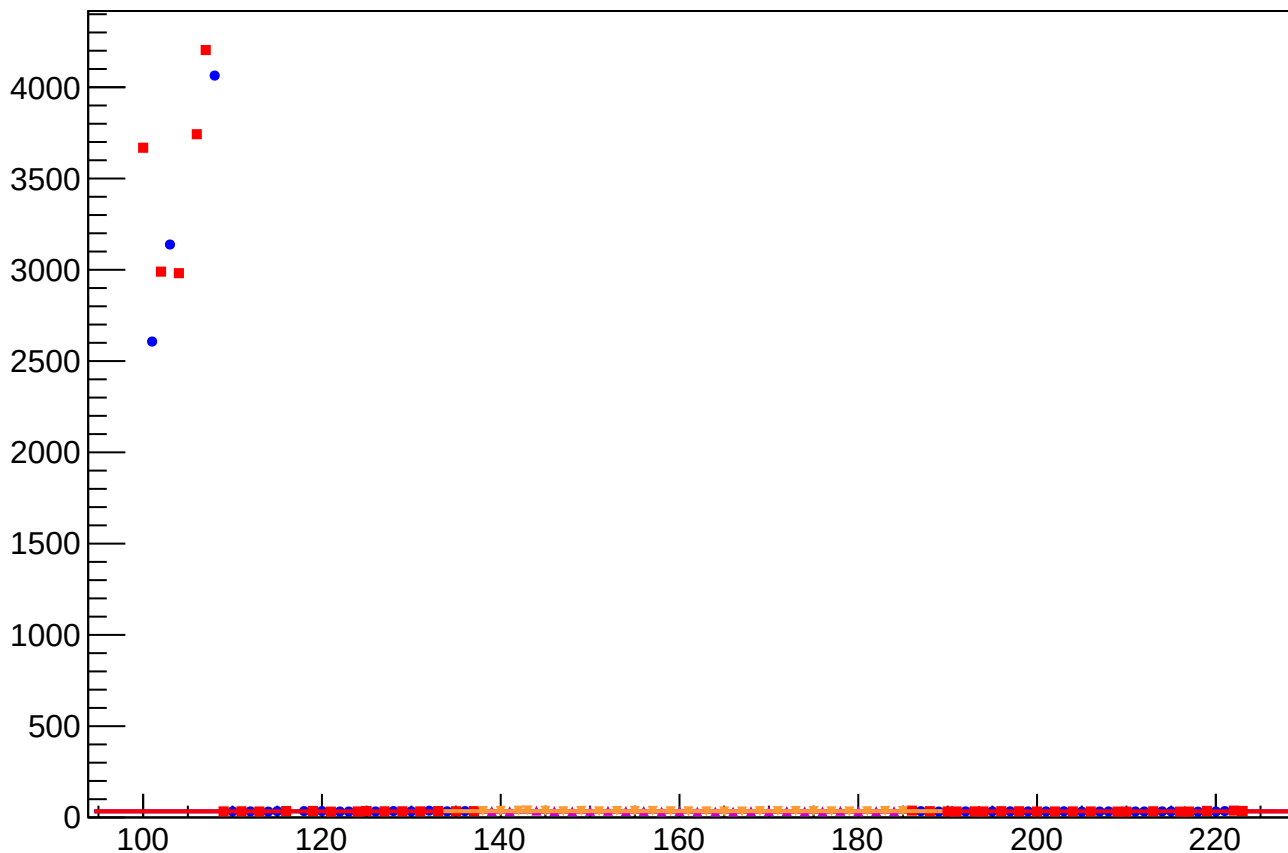
Right: -3.282 ± 5.497 $\chi^2/\text{NDF}: 84.9/73$

In: -0.752 ± 5.677 $\chi^2/\text{NDF}: 62.1/57$

Out: -16.644 ± 5.597 $\chi^2/\text{NDF}: 70.1/63$

All: -8.811 ± 3.985 $\chi^2/\text{NDF}: 136.2/121$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.360 $\pm$ 0.005 χ^2 /NDF: 3029680.4/34

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.611 $\pm$ 0.005 χ^2 /NDF: 3504964.9/38

Left In: 34.685 $\pm$ 0.006 χ^2 /NDF: 60315.2/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 118335.7/47

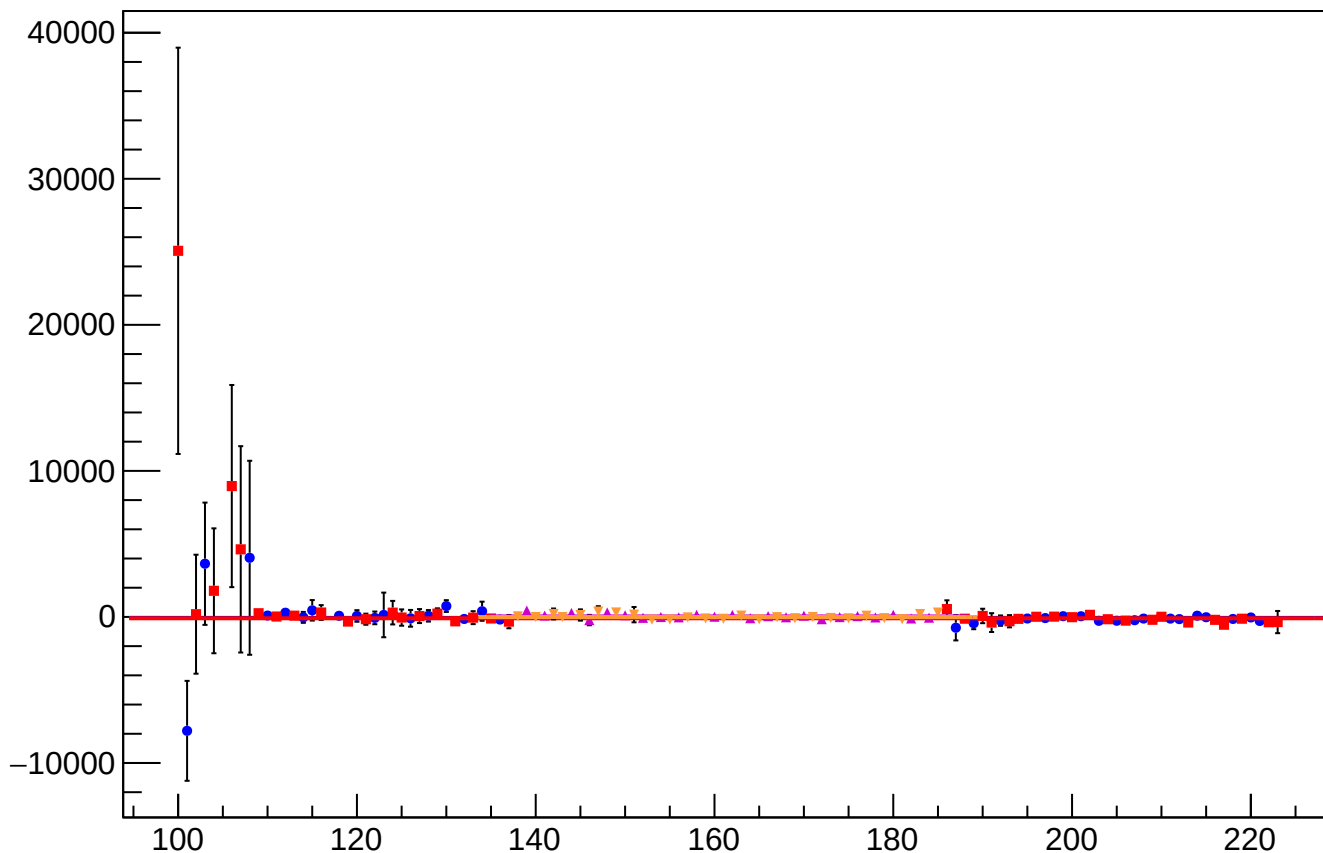
Right: 33.486 $\pm$ 0.004 χ^2 /NDF: 6535684.3/73

In: 33.979 $\pm$ 0.004 χ^2 /NDF: 3117101.9/57

Out: 34.094 $\pm$ 0.004 χ^2 /NDF: 3578962.7/63

All: 34.037 $\pm$ 0.003 χ^2 /NDF: 6696484.4/121

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -67.088+/-42.637 χ^2/NDF : 22.8/34

Left Out: -8.916+/-48.615 χ^2/NDF : 8.6/24

Right Out: -91.806+/-43.201 χ^2/NDF : 24.7/38

Left In: 34.127+/-46.296 χ^2/NDF : 7.4/22

Left: 13.656+/-33.526 χ^2/NDF : 16.5/47

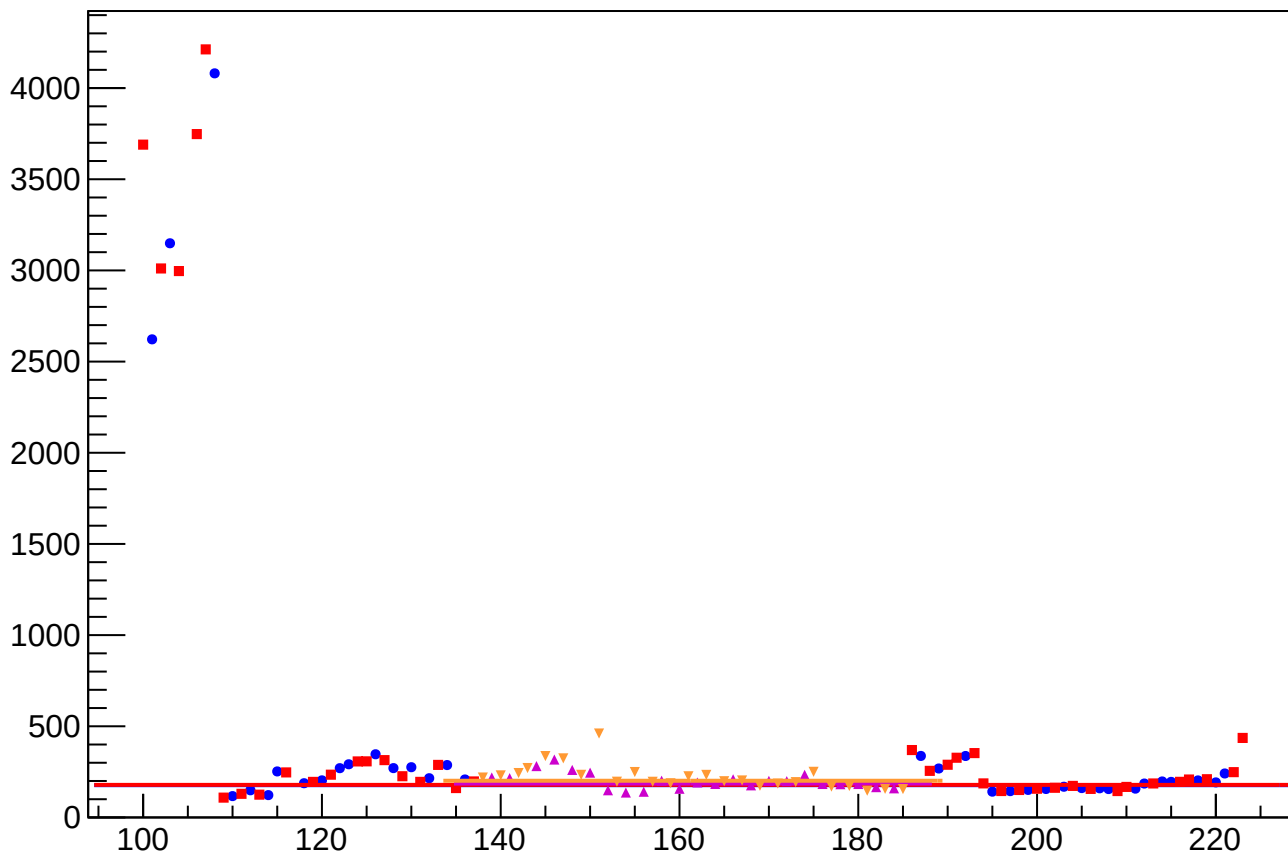
Right: -79.285+/-30.346 χ^2/NDF : 47.6/73

In: -20.639+/-31.363 χ^2/NDF : 32.8/57

Out: -55.232+/-32.293 χ^2/NDF : 34.9/63

All: -37.430+/-22.498 χ^2/NDF : 68.3/121

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.002 $\pm$ 0.030 χ^2 /NDF: 4746001.8/34

Left Out: 201.296 $\pm$ 0.034 χ^2 /NDF:1851134.1/24

Right Out: 178.654 $\pm$ 0.031 χ^2 /NDF: 5870803.8/38

Left In: 185.854 $\pm$ 0.033 χ^2 /NDF:1381771.9/22

Left: 193.198 $\pm$ 0.024 χ^2 /NDF: 3338733.9/47

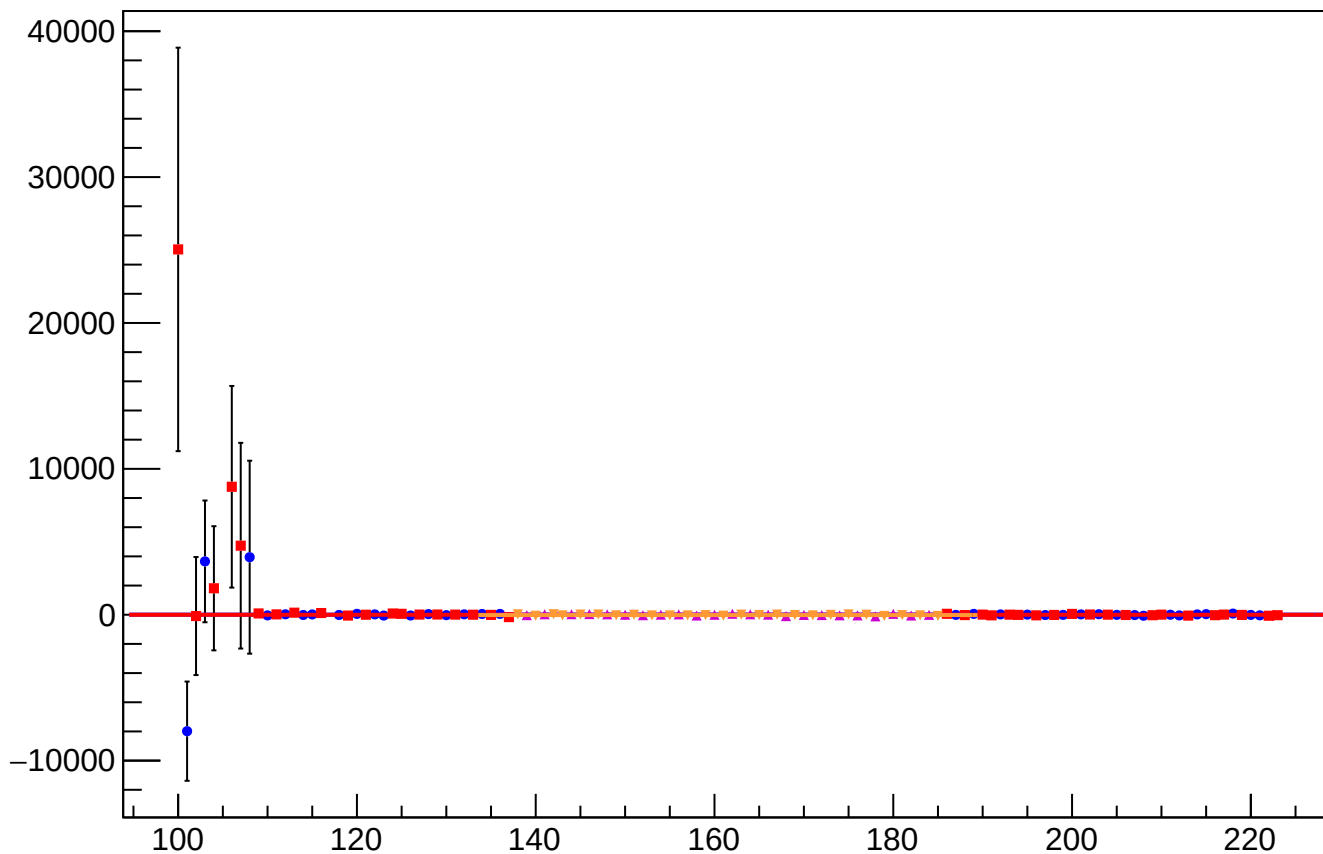
Right: 177.817 $\pm$ 0.021 χ^2 /NDF: 10618287.4/73

In: 181.064 $\pm$ 0.022 χ^2 /NDF:6167337.5/57

Out: 188.645 $\pm$ 0.023 χ^2 /NDF:7964356.7/63

All: 184.744 $\pm$ 0.016 χ^2 /NDF: 14188407.3/12

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.717+/-7.035 χ^2/NDF : 34.4/34

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: -2.402+/-7.041 χ^2/NDF : 46.3/38

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

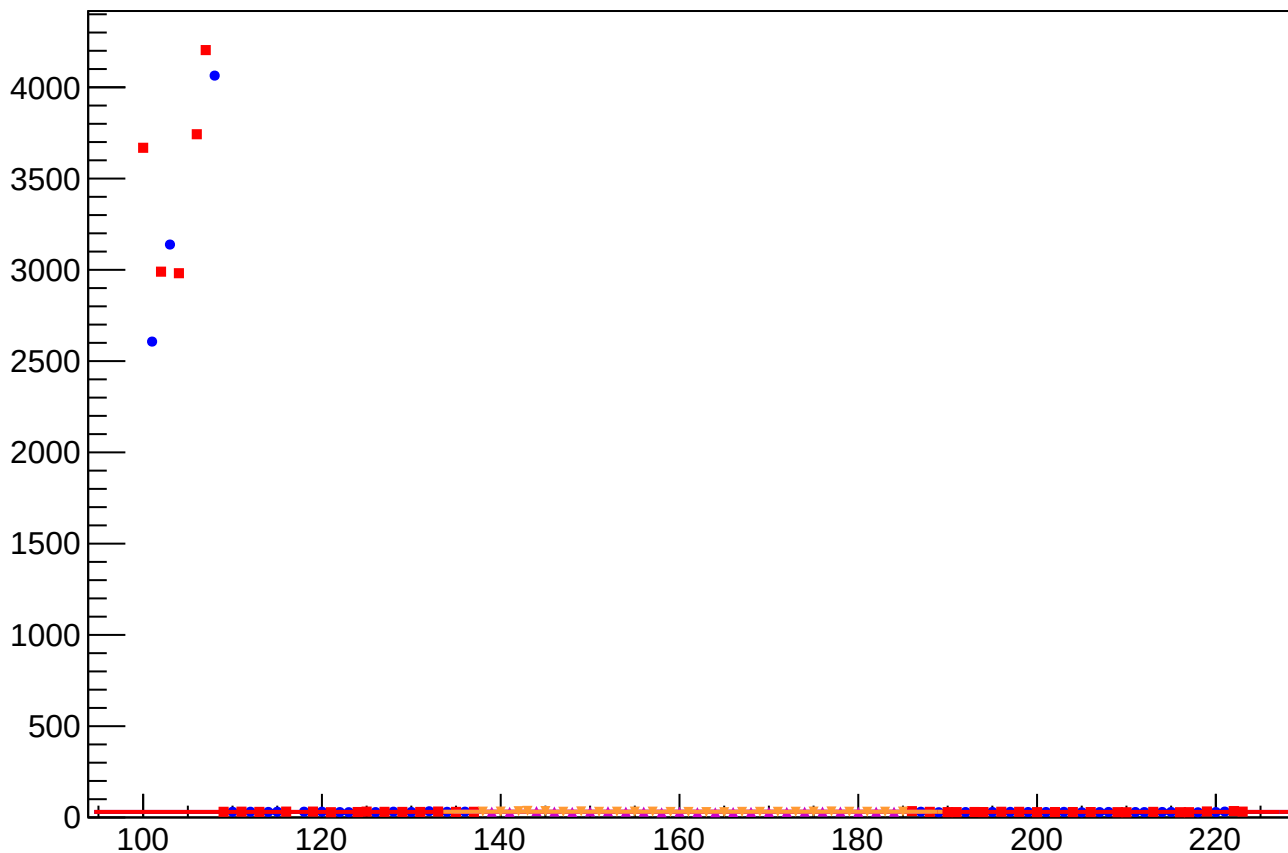
Right: 1.661+/-4.976 χ^2/NDF : 81.4/73

In: 0.298+/-5.147 χ^2/NDF : 74.1/57

Out: -12.214+/-5.081 χ^2/NDF : 69.1/63

All: -6.038+/-3.616 χ^2/NDF : 146.1/121

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.176 $\pm$ 0.005 χ^2 /NDF: 3052757.7/34

Left Out: 31.482 $\pm$ 0.005 χ^2 /NDF:82437.2/24

Right Out: 30.414 $\pm$ 0.005 χ^2 /NDF: 3538636.8/38

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

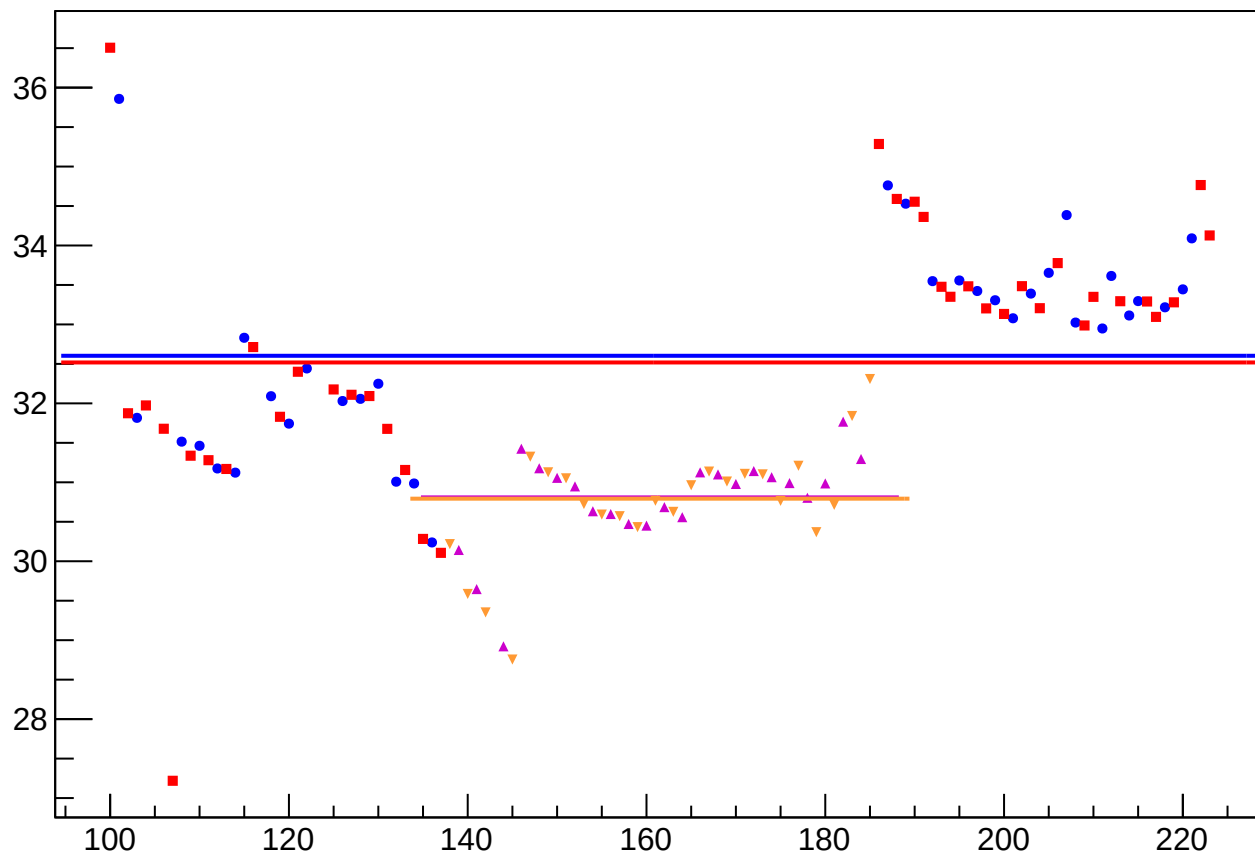
Right: 30.295 $\pm$ 0.004 χ^2 /NDF: 6592535.3/73

In: 30.784 $\pm$ 0.004 χ^2 /NDF:3172899.6/57

Out: 30.925 $\pm$ 0.004 χ^2 /NDF:3643132.5/63

All: 30.856 $\pm$ 0.003 χ^2 /NDF: 6816796.5/121

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.603 $\pm$ 0.000 χ^2 /NDF: 3370699817.0/33

Left Out: 30.793 $\pm$ 0.000 χ^2 /NDF: 1007261340.7/23

Right Out: 32.518 $\pm$ 0.000 χ^2 /NDF: 3214858649.7/37

Left In: 30.809 $\pm$ 0.000 χ^2 /NDF: 821961762.3/22

Left: 30.801 $\pm$ 0.000 χ^2 /NDF: 1829591088.1/46

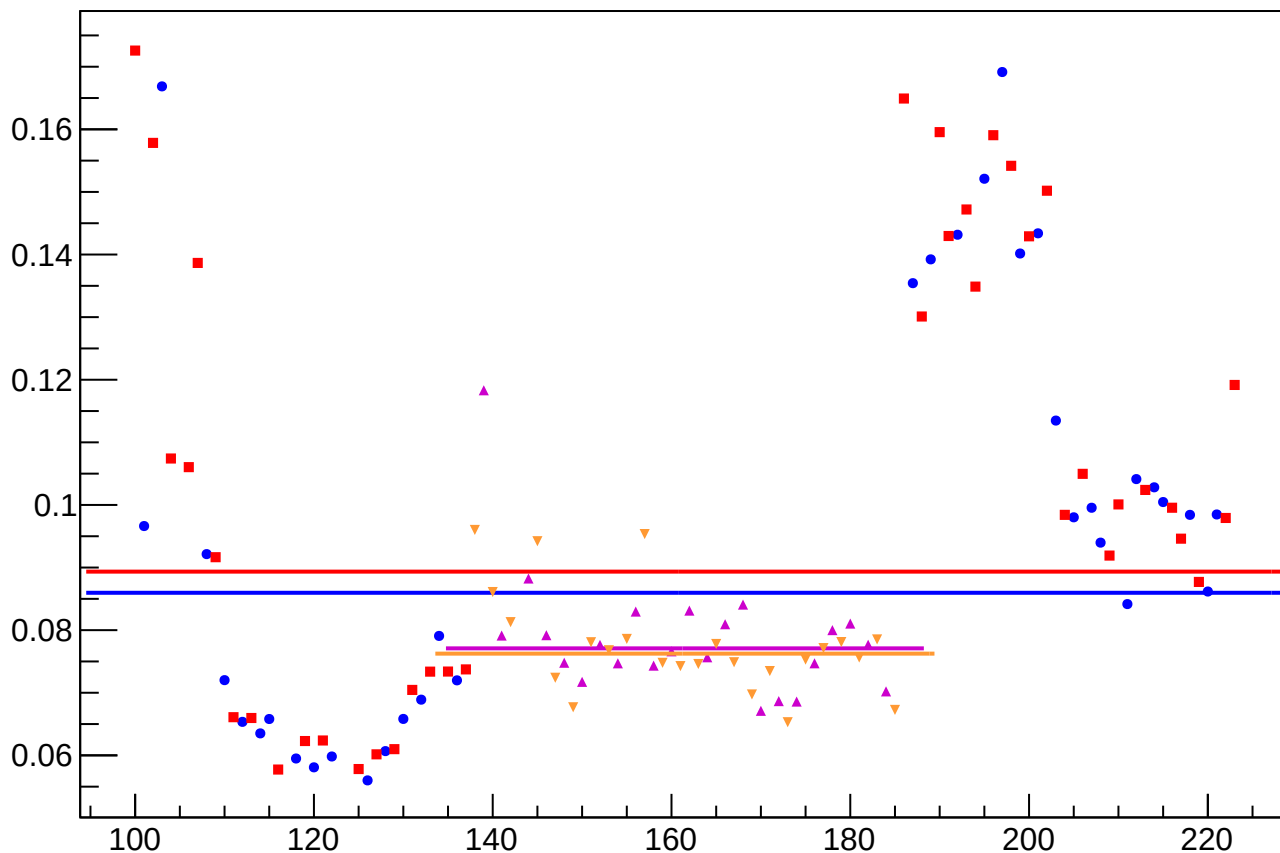
Right: 32.562 $\pm$ 0.000 χ^2 /NDF: 6593650391.9/71

In: 31.644 $\pm$ 0.000 χ^2 /NDF: 8185365756.2/56

Out: 31.557 $\pm$ 0.000 χ^2 /NDF: 7863323349.4/61

All: 31.601 $\pm$ 0.000 χ^2 /NDF: 16067462933.0

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.086+/-0.000 χ^2/NDF : 3333816.6/33

Left Out: 0.076+/-0.000 χ^2/NDF : 277876.5/23

Right Out: 0.089+/-0.000 χ^2/NDF : 3734989.0/37

Left In: 0.077+/-0.000 χ^2/NDF : 325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

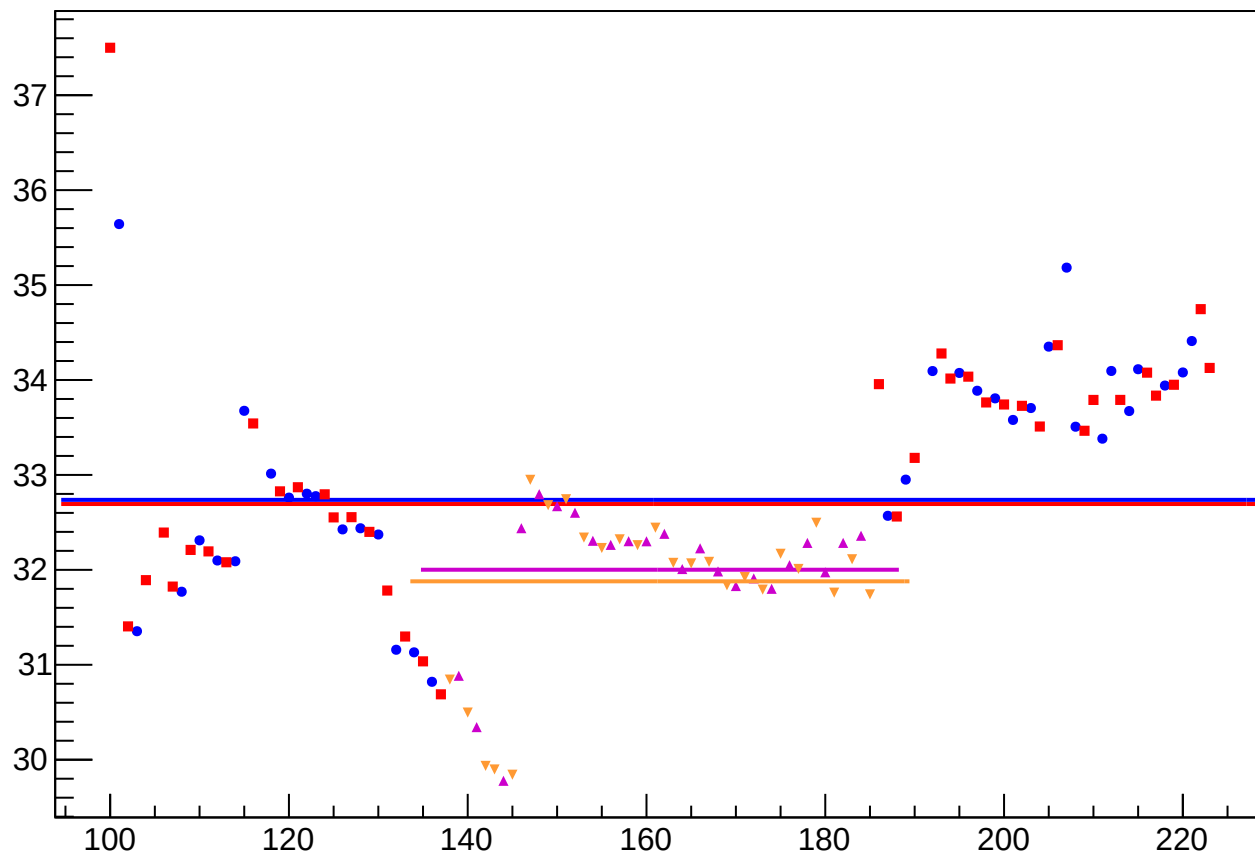
Right: 0.088+/-0.000 χ^2/NDF : 7094584.8/71

In: 0.081+/-0.000 χ^2/NDF : 3855343.5/56

Out: 0.082+/-0.000 χ^2/NDF : 4432643.1/61

All: 0.082+/-0.000 χ^2/NDF : 8291409.1/118

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.737 $\pm$ 0.000 χ^2 /NDF: 1841948196.4/34

Left Out: 31.879 $\pm$ 0.000 χ^2 /NDF: 1976281391.1/24

Right Out: 32.693 $\pm$ 0.000 χ^2 /NDF: 1259636147.2/37

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

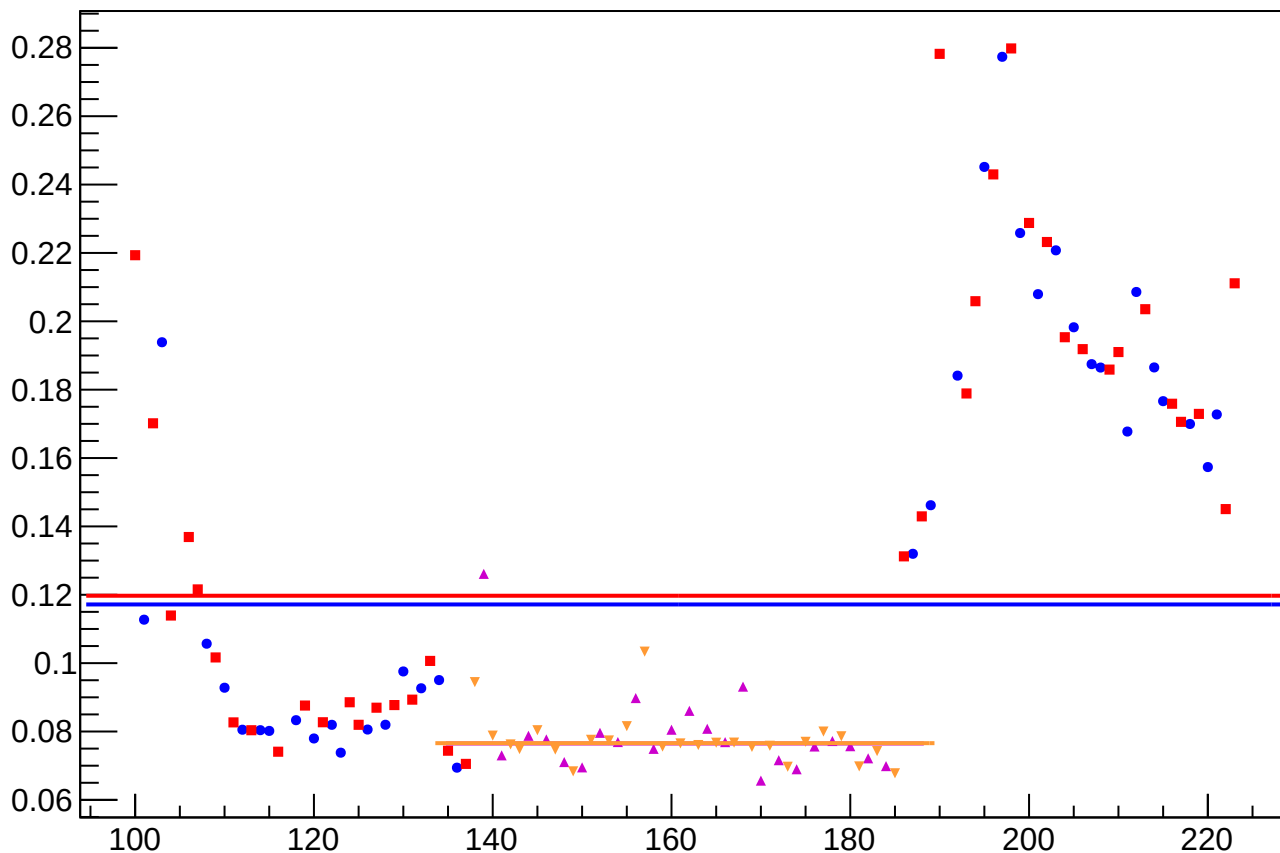
Right: 32.715 $\pm$ 0.000 χ^2 /NDF: 3102677975.3/72

In: 32.217 $\pm$ 0.000 χ^2 /NDF: 3689137534.8/57

Out: 32.109 $\pm$ 0.000 χ^2 /NDF: 3774207518.7/62

All: 32.162 $\pm$ 0.000 χ^2 /NDF: 7486378752.8/131

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.117 $\pm$ 0.000 χ^2 /NDF: 6095382.7/34

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.120 $\pm$ 0.000 χ^2 /NDF: 5711181.2/37

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

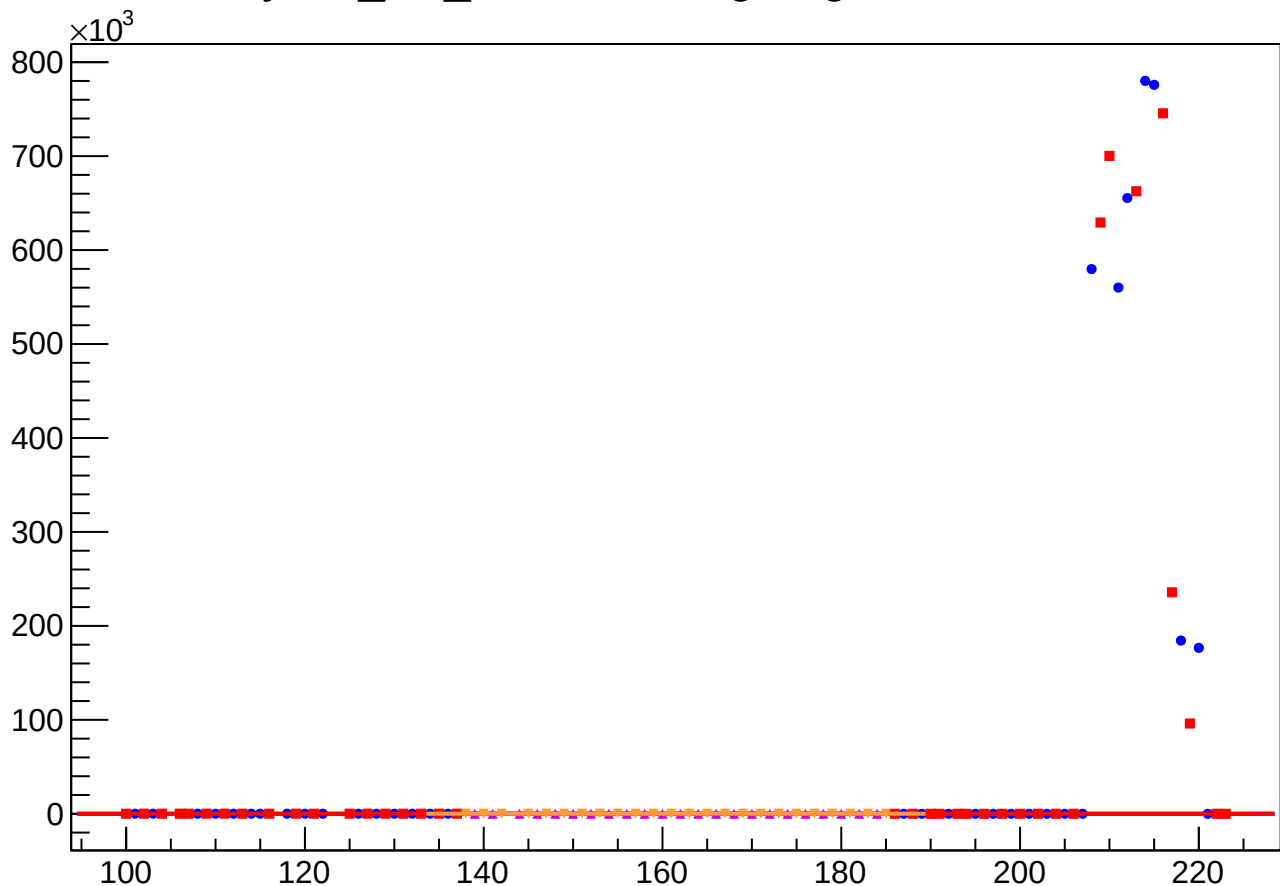
Right: 0.118 $\pm$ 0.000 χ^2 /NDF: 11813930.6/72

In: 0.088 $\pm$ 0.000 χ^2 /NDF:9190899.0/57

Out: 0.089 $\pm$ 0.000 χ^2 /NDF:8940764.2/62

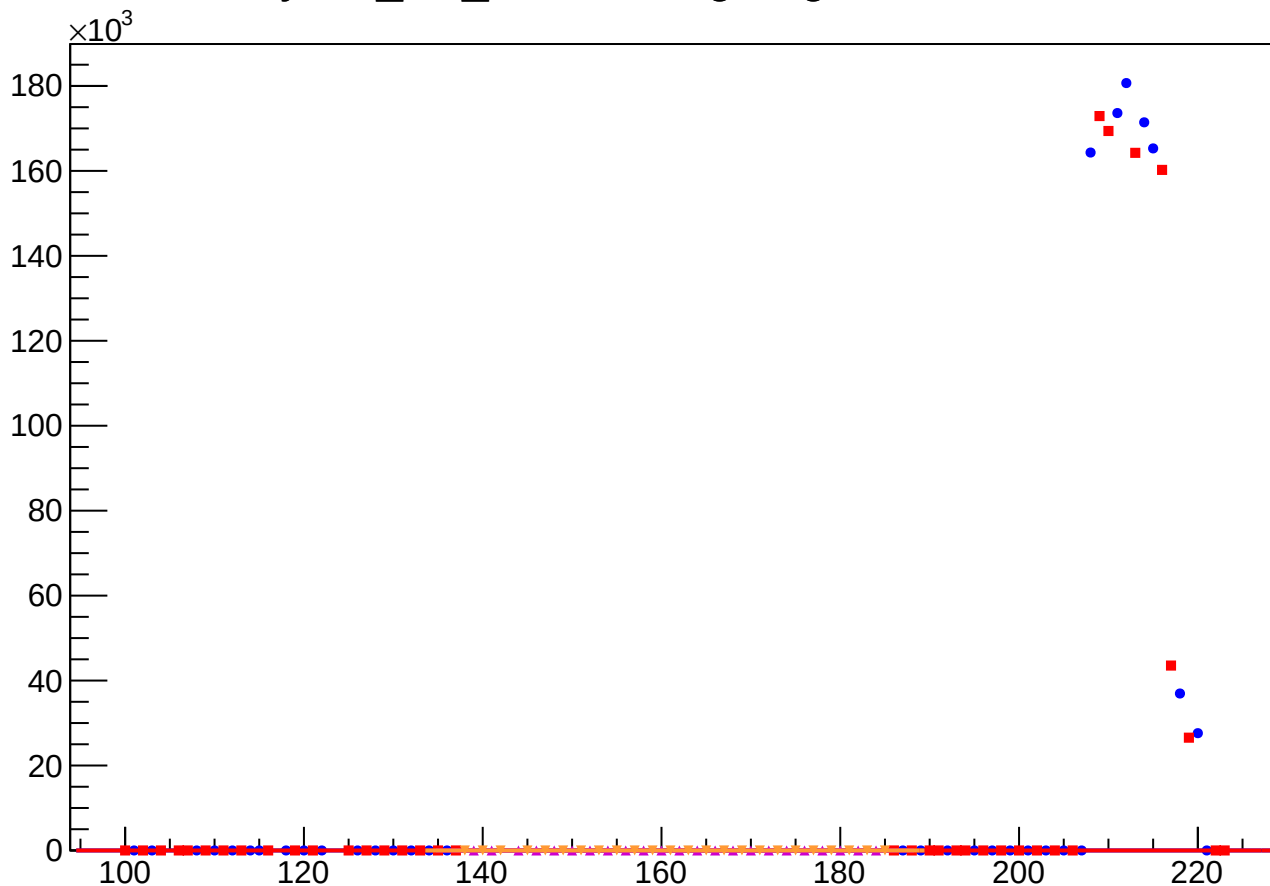
All: 0.089 $\pm$ 0.000 χ^2 /NDF: 18132133.9/120

yield_dsl_mean vs Slug, Sign Corrected



Right In: 52.944+/-0.000	χ^2/NDF : 11400771048043.2/33	Left: 83.355+/-0.000	χ^2/NDF : 17213898269.1/46
Left Out: 83.402+/-0.000	χ^2/NDF : 8756634444.3/23	Right: 50.549+/-0.000	χ^2/NDF : 23898593859665.8/
Right Out: 48.397+/-0.000	χ^2/NDF : 12431746691796.8/37	In: 70.505+/-0.000	χ^2/NDF : 14643355548856.3/56
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 67.683+/-0.000	χ^2/NDF : 17000278522124.5/6
		All: 69.063+/-0.000	χ^2/NDF : 3170219957460

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 10059794.0/33

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.048 $\pm$ 0.000 χ^2 /NDF: 8720874.9/37

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

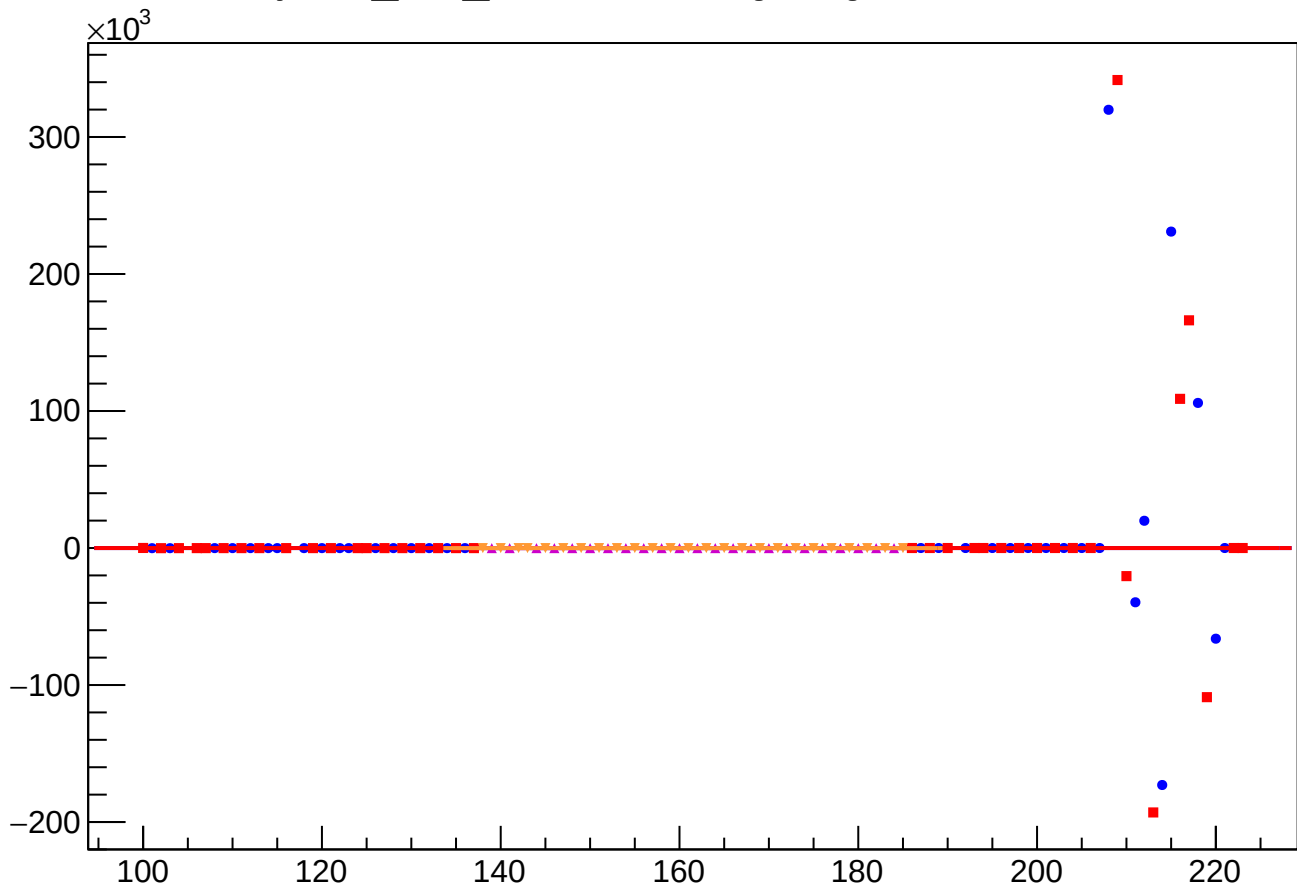
Right: 0.048 $\pm$ 0.000 χ^2 /NDF: 18780709.7/71

In: 0.046 $\pm$ 0.000 χ^2 /NDF:10340463.4/56

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:8960788.6/61

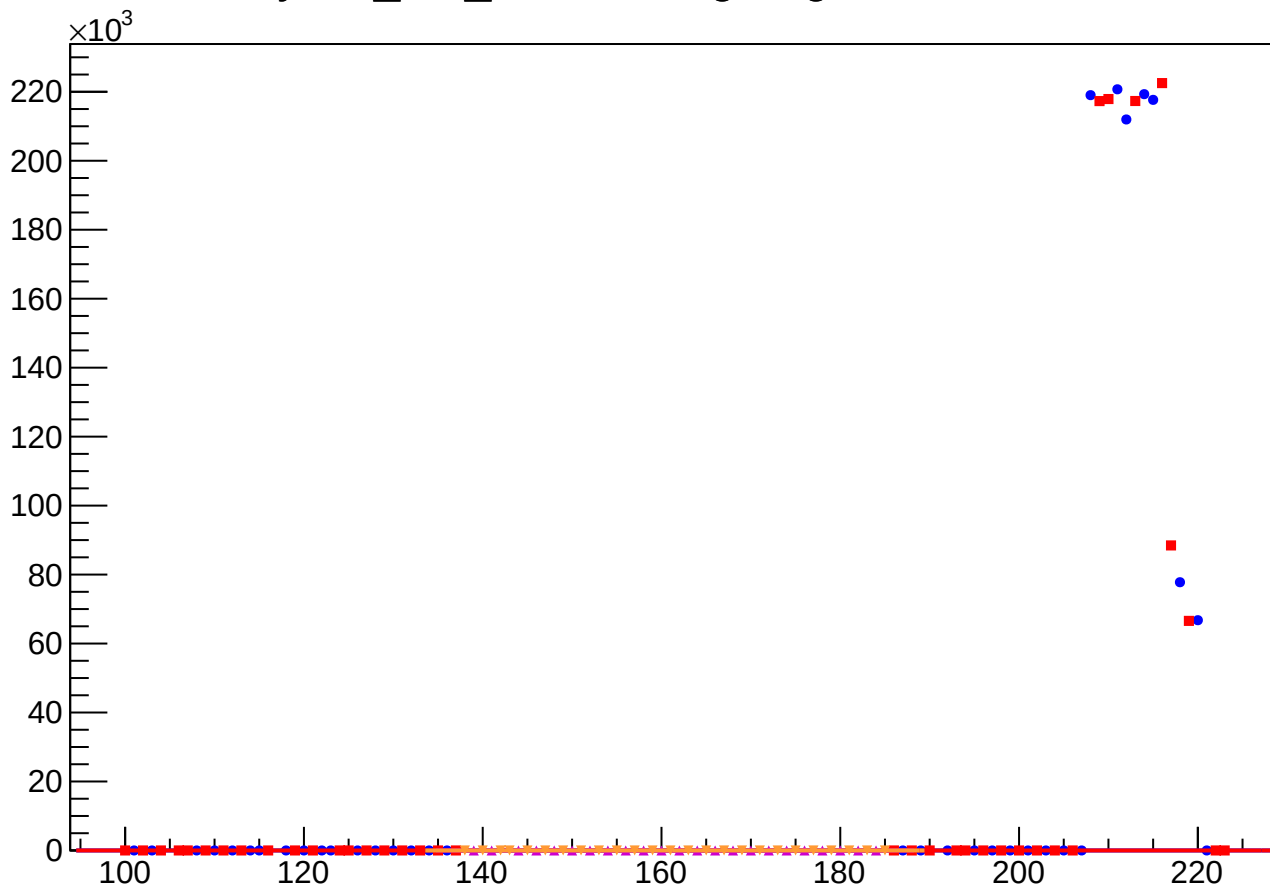
All: 0.046 $\pm$ 0.000 χ^2 /NDF: 19302230.5/118

yield_dsr_mean vs Slug, Sign Corrected



Right In: -28.423+/-0.000	χ^2/NDF : 7715176965080.7/34	Left: -69.460+/-0.000	χ^2/NDF : 102399164.0/47
Left Out: -69.461+/-0.000	χ^2/NDF : 49572401.9/24	Right: -27.523+/-0.000	χ^2/NDF : 15361008151412.0
Right Out: -26.705+/-0.000	χ^2/NDF : 7637808414562.3/37	In: -49.438+/-0.000	χ^2/NDF : 12192500864390.9/5
Left In: -69.458+/-0.000	χ^2/NDF : 52798704.3/22	Out: -48.302+/-0.000	χ^2/NDF : 12912479549989.5/
		All: -48.847+/-0.000	χ^2/NDF : 251121328657

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 10020347.2/34

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 8600293.9/37

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

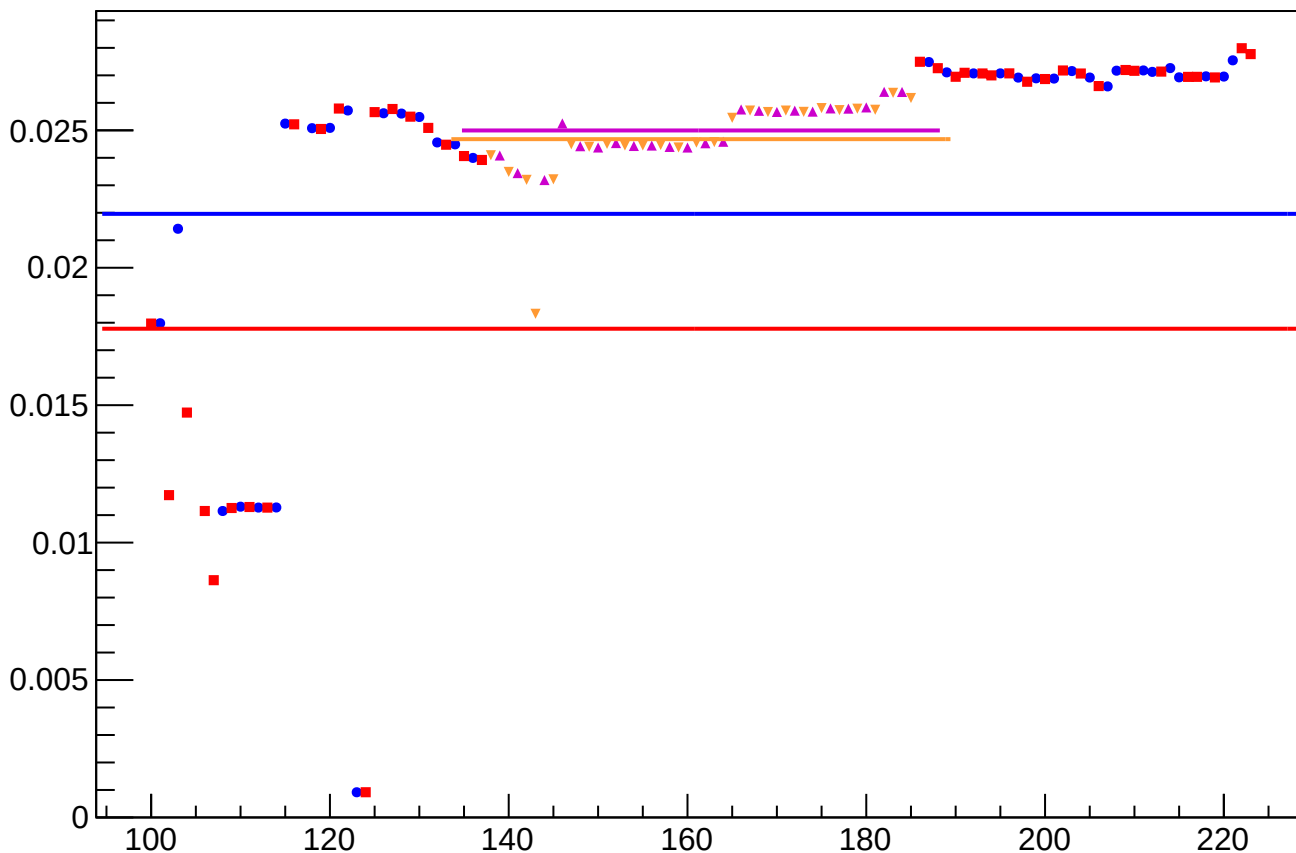
Right: 0.052 $\pm$ 0.000 χ^2 /NDF: 18620715.5/72

In: 0.054 $\pm$ 0.000 χ^2 /NDF:10143376.4/57

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:8696260.6/62

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 18839927.3/120

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.022+/-0.000

χ^2/NDF : 212088057630.3/34

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.020+/-0.000

χ^2/NDF : 722900732604.5/73

Right Out: 0.018+/-0.000

χ^2/NDF : 478816471523.4/38

In: 0.024+/-0.000

χ^2/NDF : 230332934387.6/57

Out: 0.021+/-0.000

χ^2/NDF : 580769490740.4/63

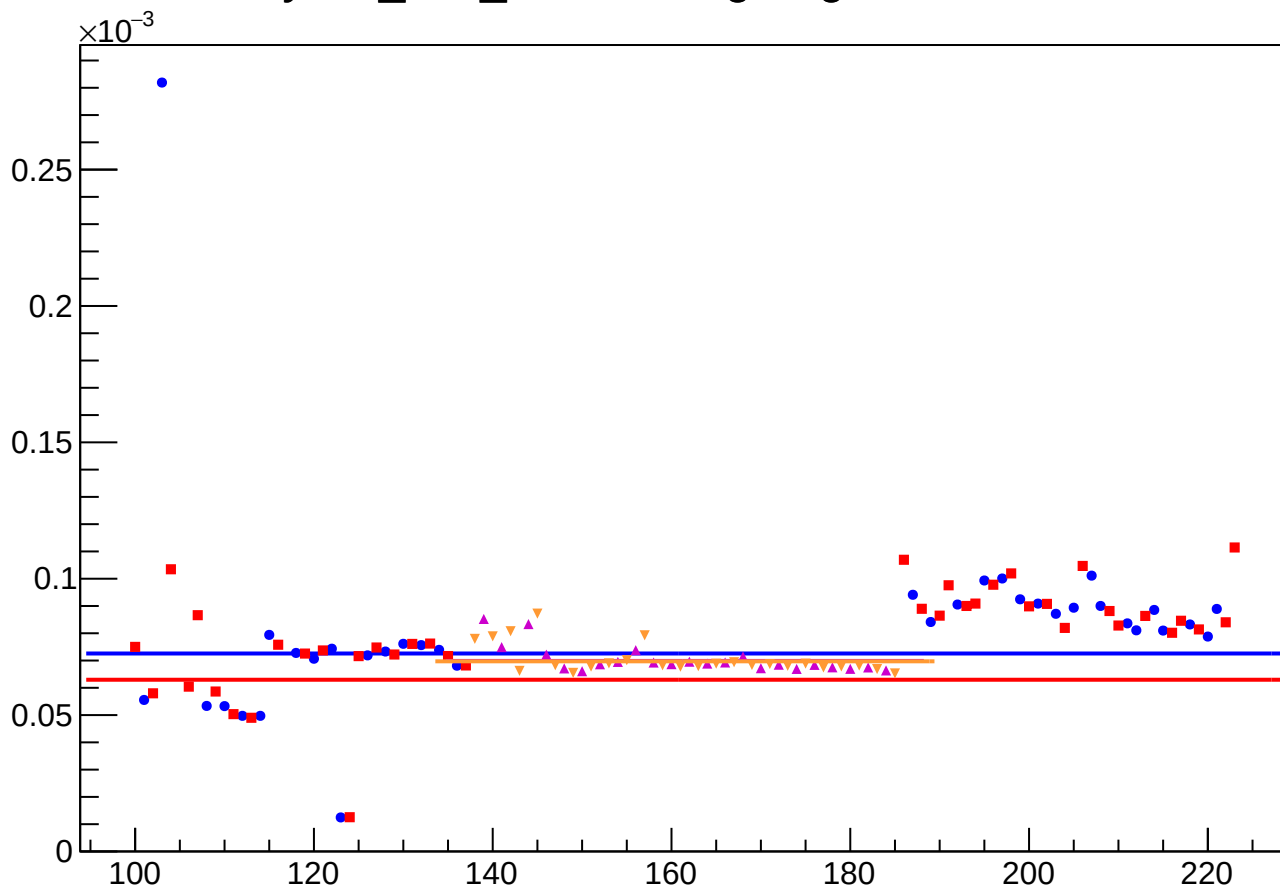
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 832773689621.4

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3753564.1/34

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7627074.7/38

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

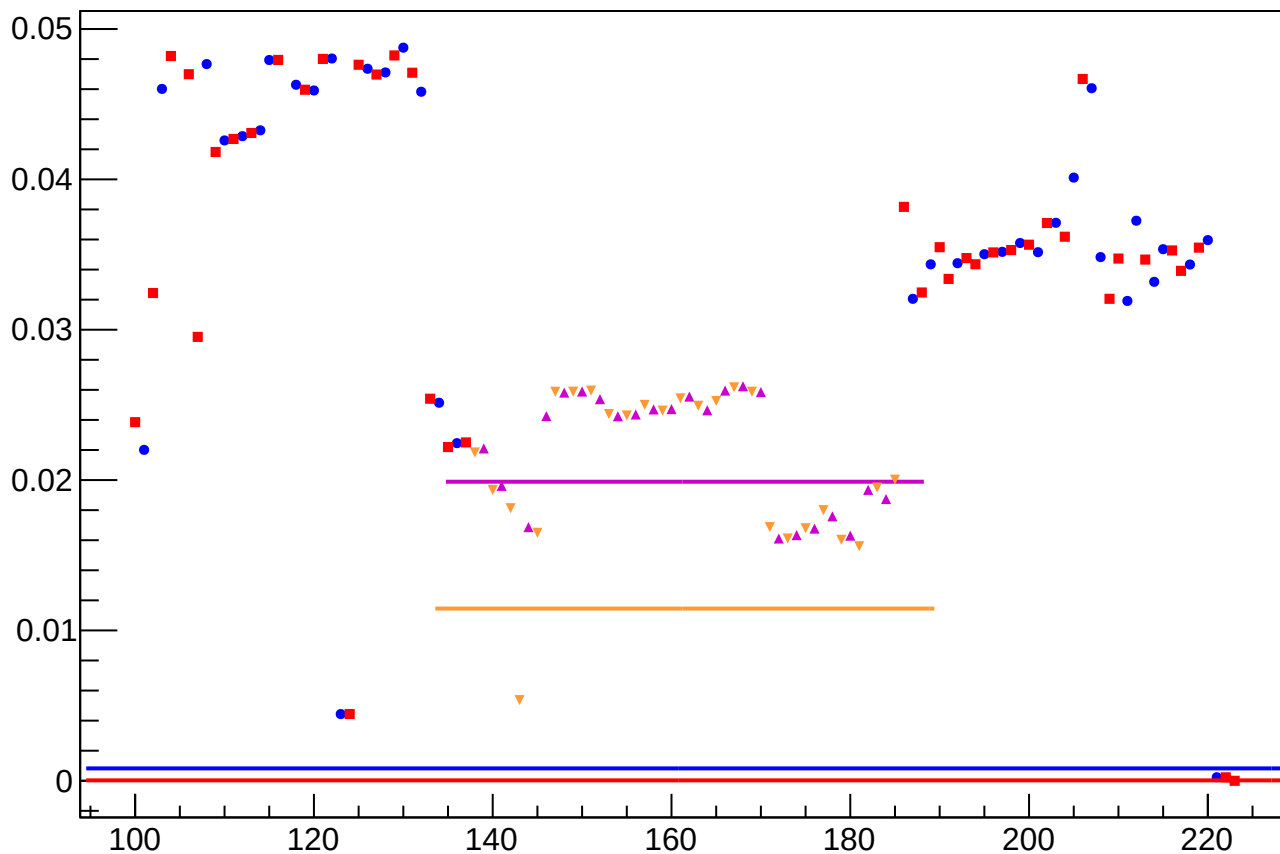
Right: 0.000+/-0.000 χ^2/NDF : 11719865.2/73

In: 0.000+/-0.000 χ^2/NDF :3908312.6/57

Out: 0.000+/-0.000 χ^2/NDF :7962312.4/63

All: 0.000+/-0.000 χ^2/NDF : 12052372.2/121

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 123172165300.1/34

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.000+/-0.000

χ^2/NDF : 252489576695.8/73

Right Out: 0.000+/-0.000

χ^2/NDF : 125942180856.6/38

In: 0.002+/-0.000

χ^2/NDF : 228531107993.2/57

Out: 0.000+/-0.000

χ^2/NDF : 259321884512.7/63

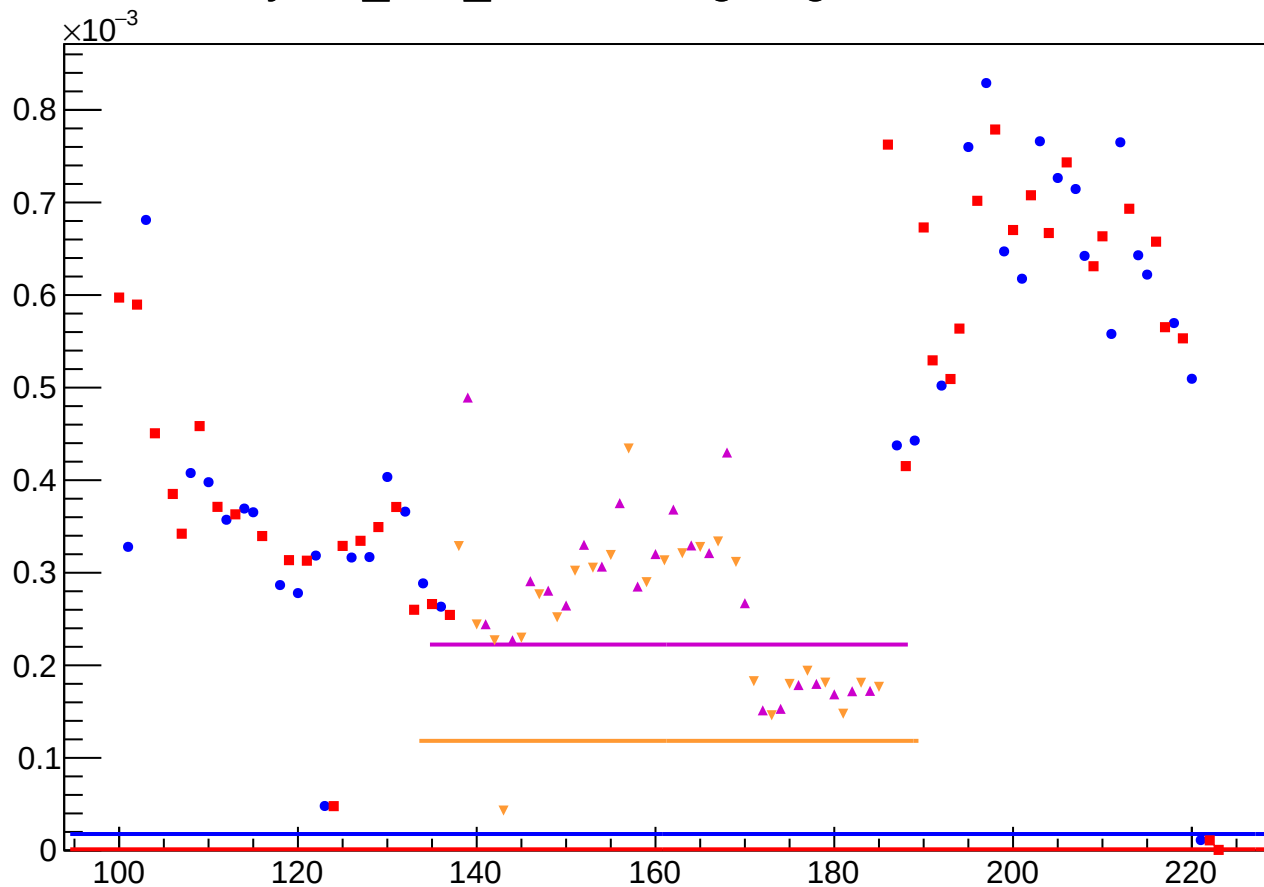
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.000+/-0.000

χ^2/NDF : 504319815619.9

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 33318878.6/34

Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 37404706.3/38

Left In: 0.000+/-0.000 χ^2/NDF :3281119.0/22

Left: 0.000+/-0.000 χ^2/NDF : 21336583.8/47

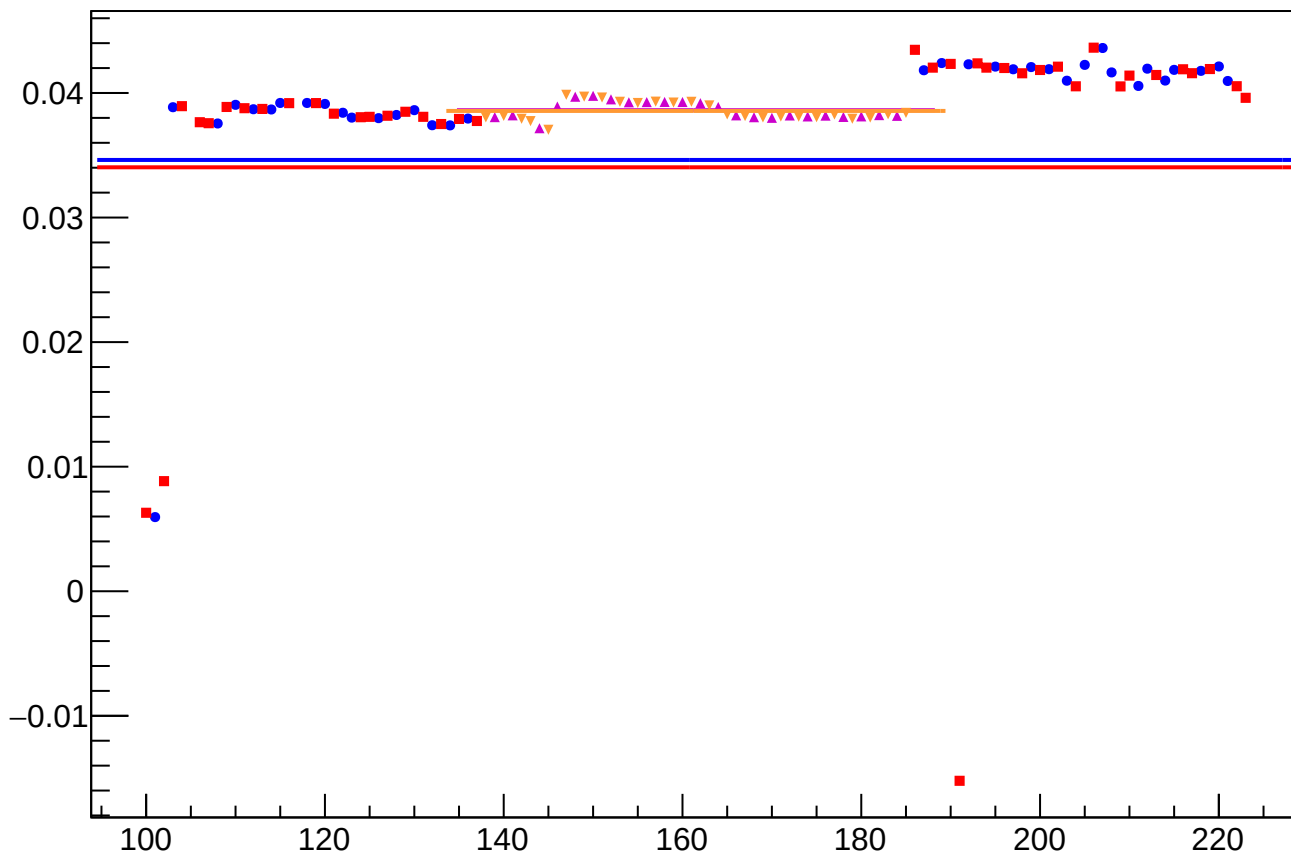
Right: 0.000+/-0.000 χ^2/NDF : 73635987.0/73

In: 0.000+/-0.000 χ^2/NDF :59850759.4/57

Out: 0.000+/-0.000 χ^2/NDF :70546251.3/63

All: 0.000+/-0.000 χ^2/NDF : 138214645.0/121

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.035+/-0.000

χ^2/NDF : 124862974811.0/34

Left: 0.039+/-0.000

χ^2/NDF : 1007039623.8/47

Left Out: 0.039+/-0.000

χ^2/NDF : 539468437.3/24

Right: 0.034+/-0.000

χ^2/NDF : 314799887521.8/73

Right Out: 0.034+/-0.000

χ^2/NDF : 189800160730.2/38

In: 0.037+/-0.000

χ^2/NDF : 132394692247.4/57

Out: 0.037+/-0.000

χ^2/NDF : 199664238431.5/63

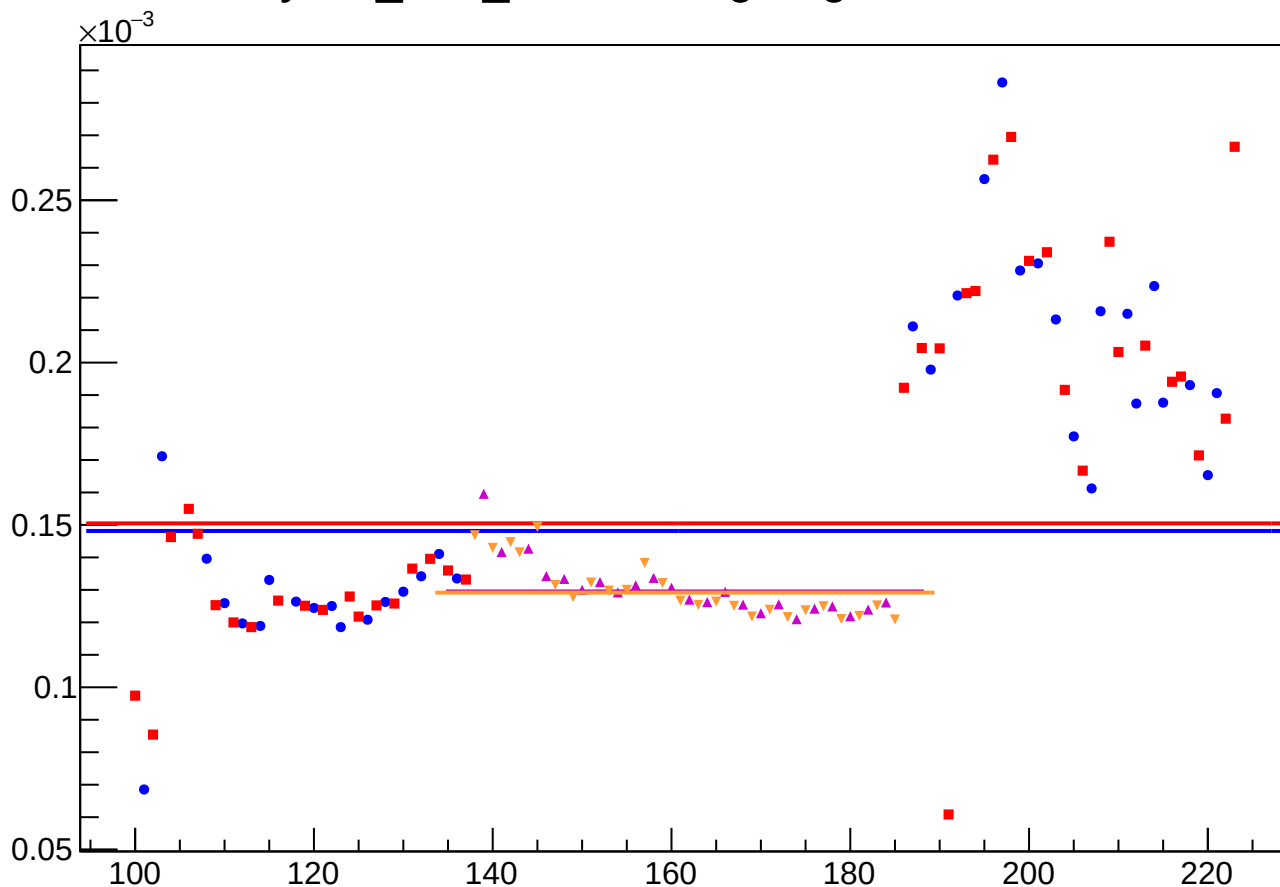
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.037+/-0.000

χ^2/NDF : 332106830949.6

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4090572.6/34

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3877453.8/38

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

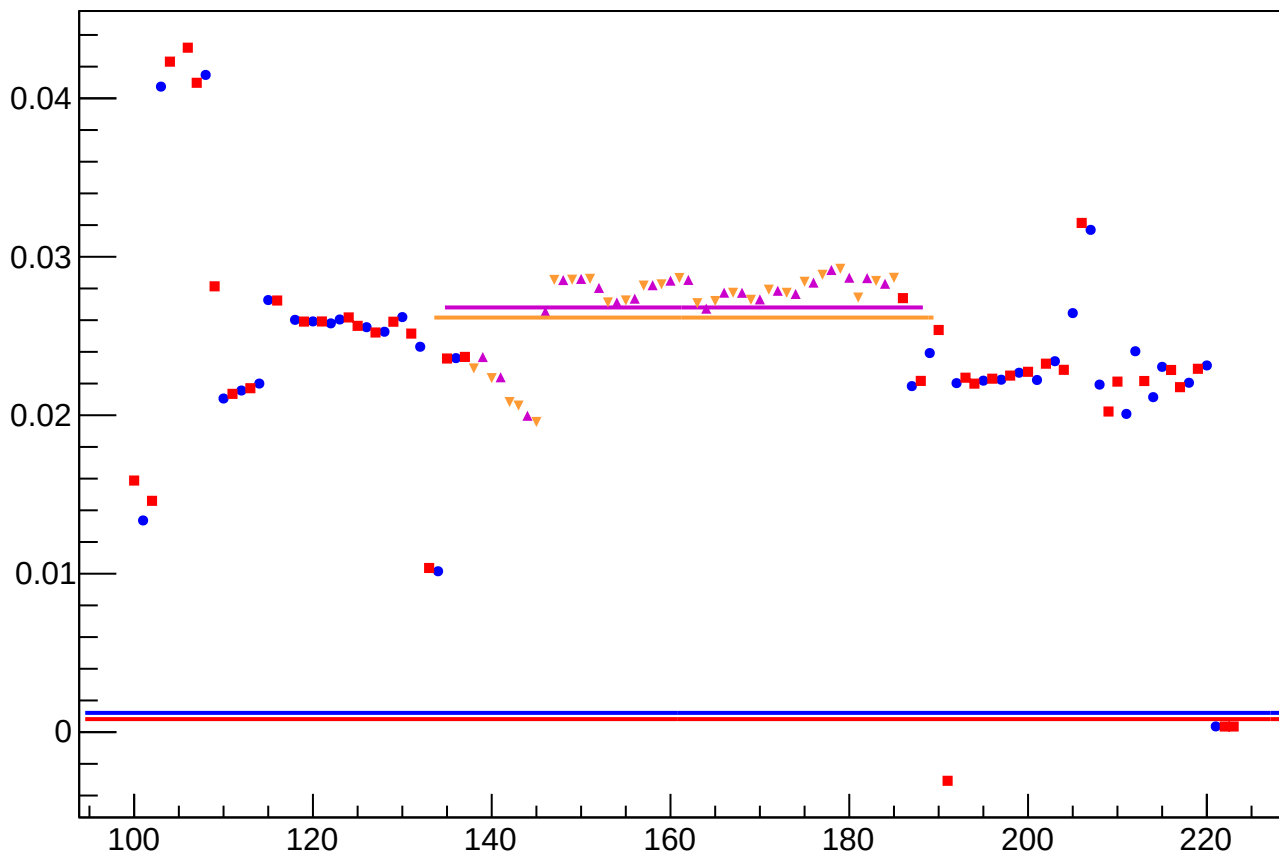
Right: 0.000+/-0.000 χ^2/NDF : 7972306.7/73

In: 0.000+/-0.000 χ^2/NDF :4512273.9/57

Out: 0.000+/-0.000 χ^2/NDF :4422025.6/63

All: 0.000+/-0.000 χ^2/NDF : 8934779.7/121

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 65112578403.1/34

Left: 0.026+/-0.000

χ^2/NDF : 3427924441.4/47

Left Out: 0.026+/-0.000

χ^2/NDF : 2056710635.1/24

Right: 0.001+/-0.000

χ^2/NDF : 136527694075.8/73

Right Out: 0.001+/-0.000

χ^2/NDF : 71090523866.9/38

In: 0.003+/-0.000

χ^2/NDF : 180997498227.9/57

Out: 0.002+/-0.000

χ^2/NDF : 198092227908.1/63

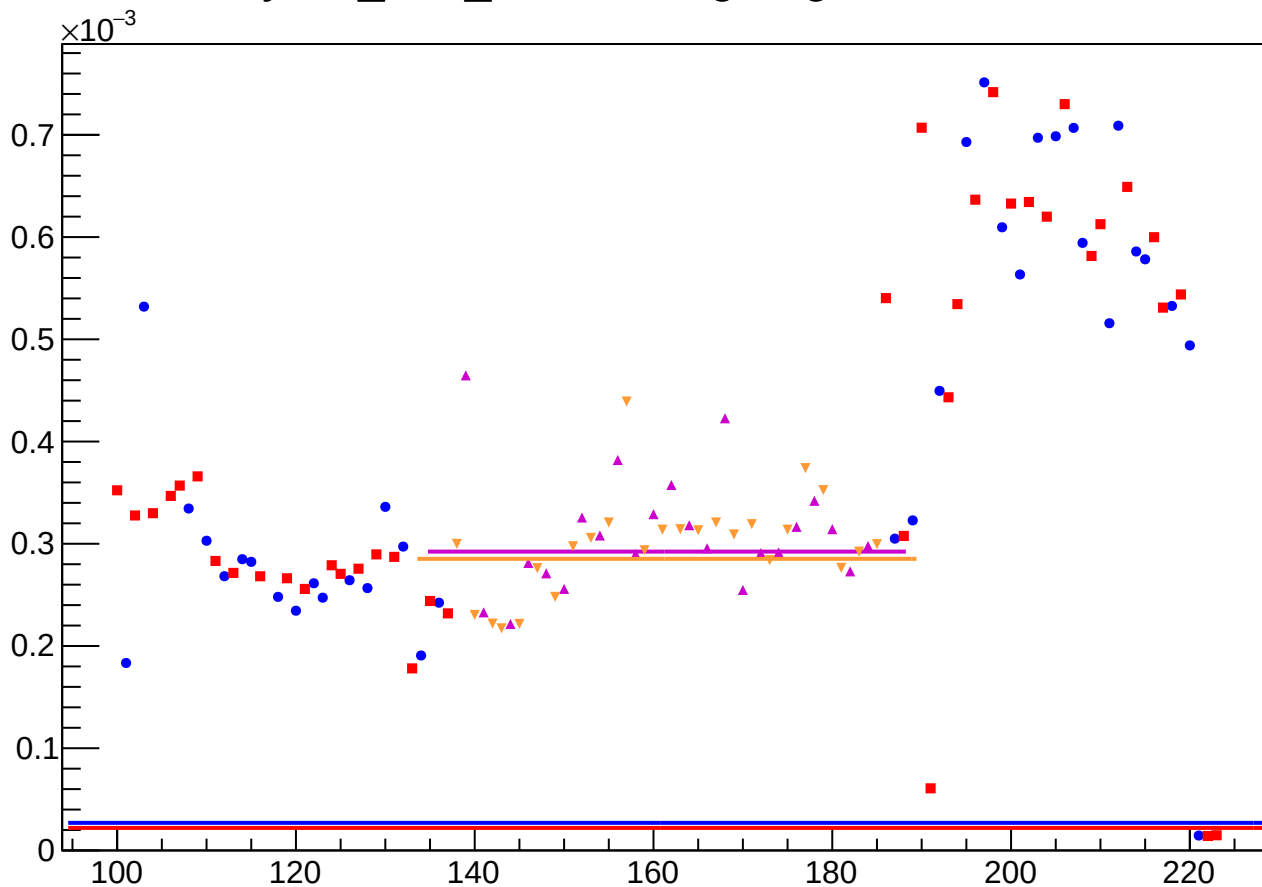
Left In: 0.027+/-0.000

χ^2/NDF : 1332033607.7/22

All: 0.002+/-0.000

χ^2/NDF : 380800783839.2

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31908942.7/34

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 32733124.7/38

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

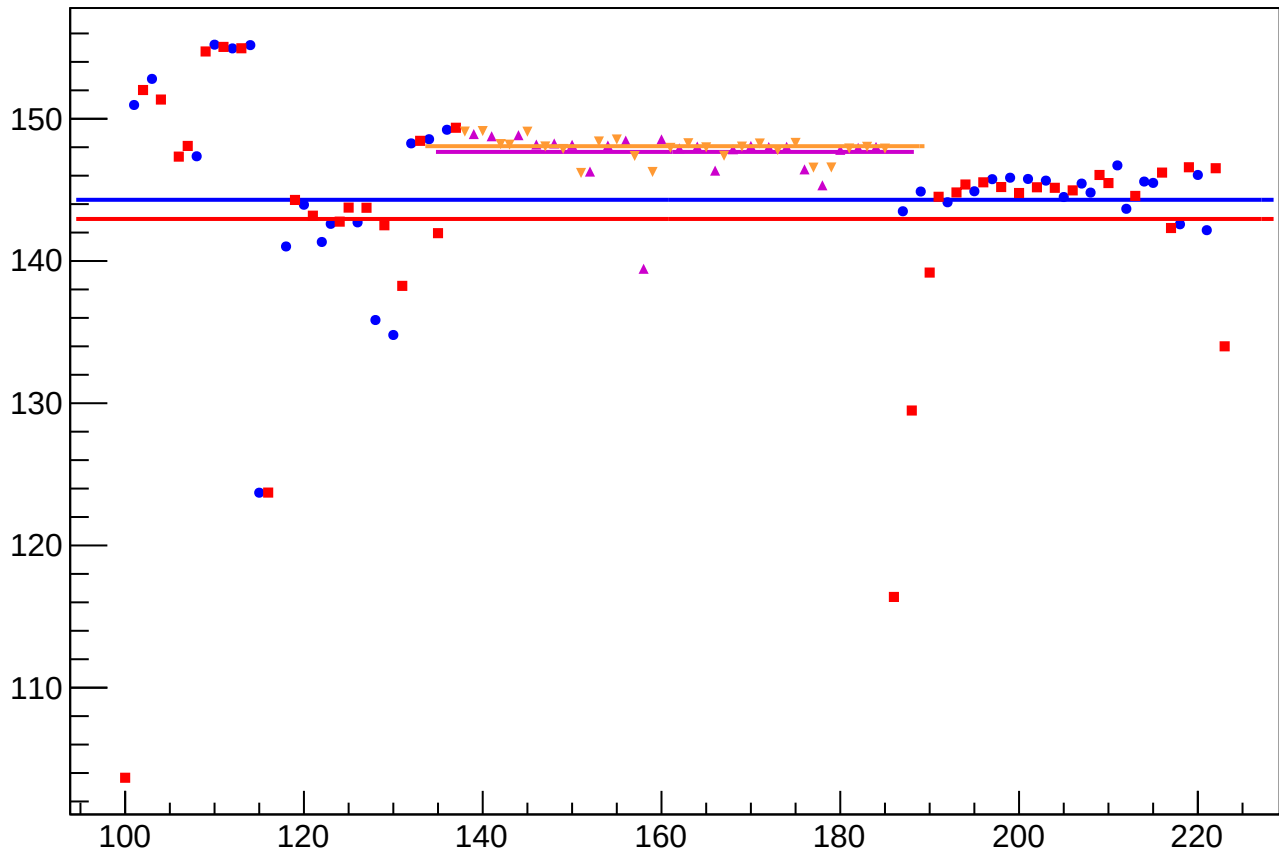
Right: 0.000+/-0.000 χ^2/NDF : 64744899.6/73

In: 0.000+/-0.000 χ^2/NDF :57445473.7/57

Out: 0.000+/-0.000 χ^2/NDF :60503932.1/63

All: 0.000+/-0.000 χ^2/NDF : 118389642.6/121

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.304 $\pm$ 0.000 χ^2 /NDF: 3529573005.2/34

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.956 $\pm$ 0.000 χ^2 /NDF: 7581783710.9/38

Left In: 147.670 $\pm$ 0.000 χ^2 /NDF: 345222604.4/22

Left: 147.879 $\pm$ 0.000 χ^2 /NDF: 418091602.5/47

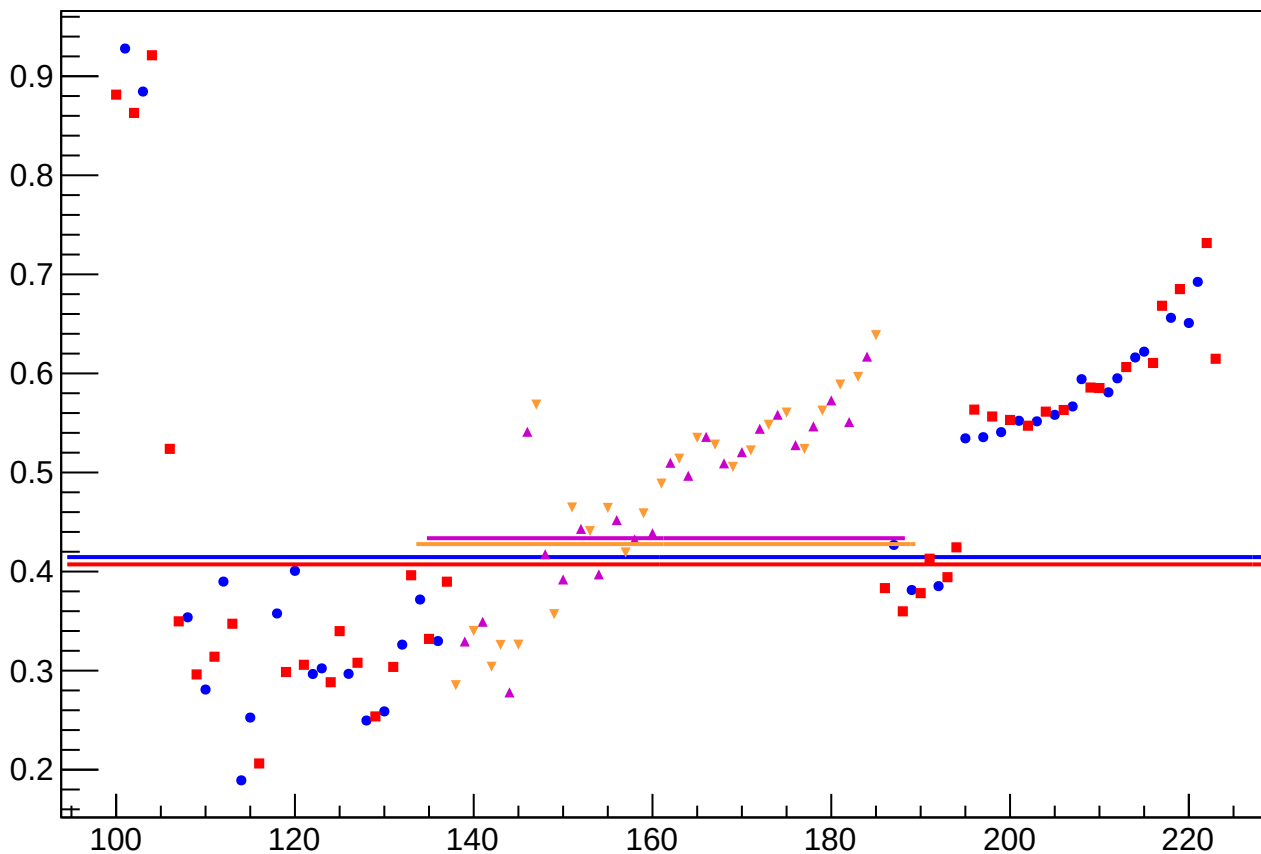
Right: 143.602 $\pm$ 0.000 χ^2 /NDF: 11204064105.4/73

In: 145.881 $\pm$ 0.000 χ^2 /NDF: 4395654573.0/57

Out: 145.338 $\pm$ 0.000 χ^2 /NDF: 8945981560.6/63

All: 145.599 $\pm$ 0.000 χ^2 /NDF: 13369911780.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.415 $\pm$ 0.000 χ^2/NDF : 4387851.3/34

Left Out: 0.428 $\pm$ 0.000 χ^2/NDF :1896808.7/24

Right Out: 0.407 $\pm$ 0.000 χ^2/NDF : 4203664.6/38

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

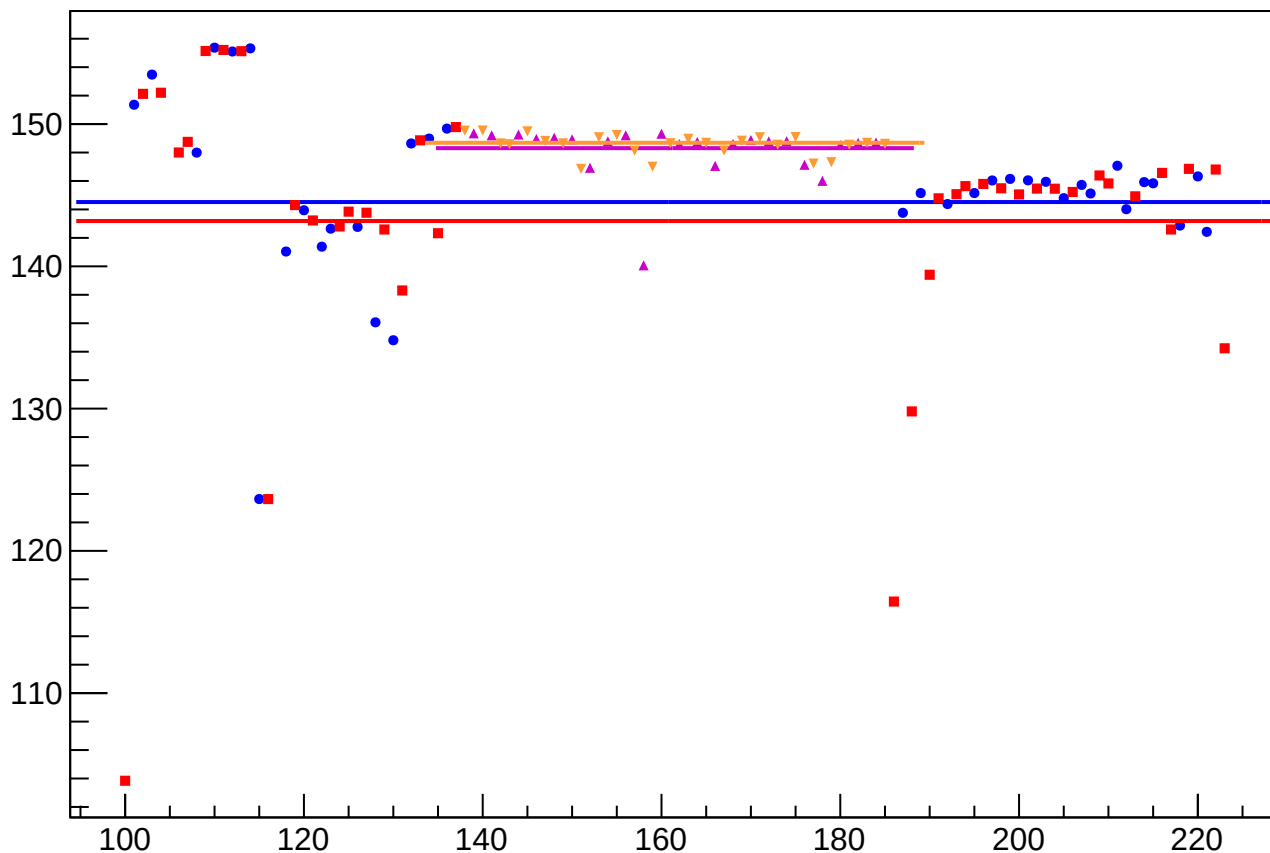
Right: 0.411 $\pm$ 0.000 χ^2/NDF : 8597033.1/73

In: 0.424 $\pm$ 0.000 χ^2/NDF :5917625.5/57

Out: 0.417 $\pm$ 0.000 χ^2/NDF :6142098.1/63

All: 0.420 $\pm$ 0.000 χ^2/NDF : 12068460.1/121

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.520+/-0.000 χ^2/NDF : 3580419325.8/34

Left Out: 148.686+/-0.000 χ^2/NDF : 52218185.1/24

Right Out: 143.187+/-0.000 χ^2/NDF : 7533934683.4/38

Left In: 148.307+/-0.000 χ^2/NDF : 333585558.2/22

Left: 148.504+/-0.000 χ^2/NDF : 392094013.2/47

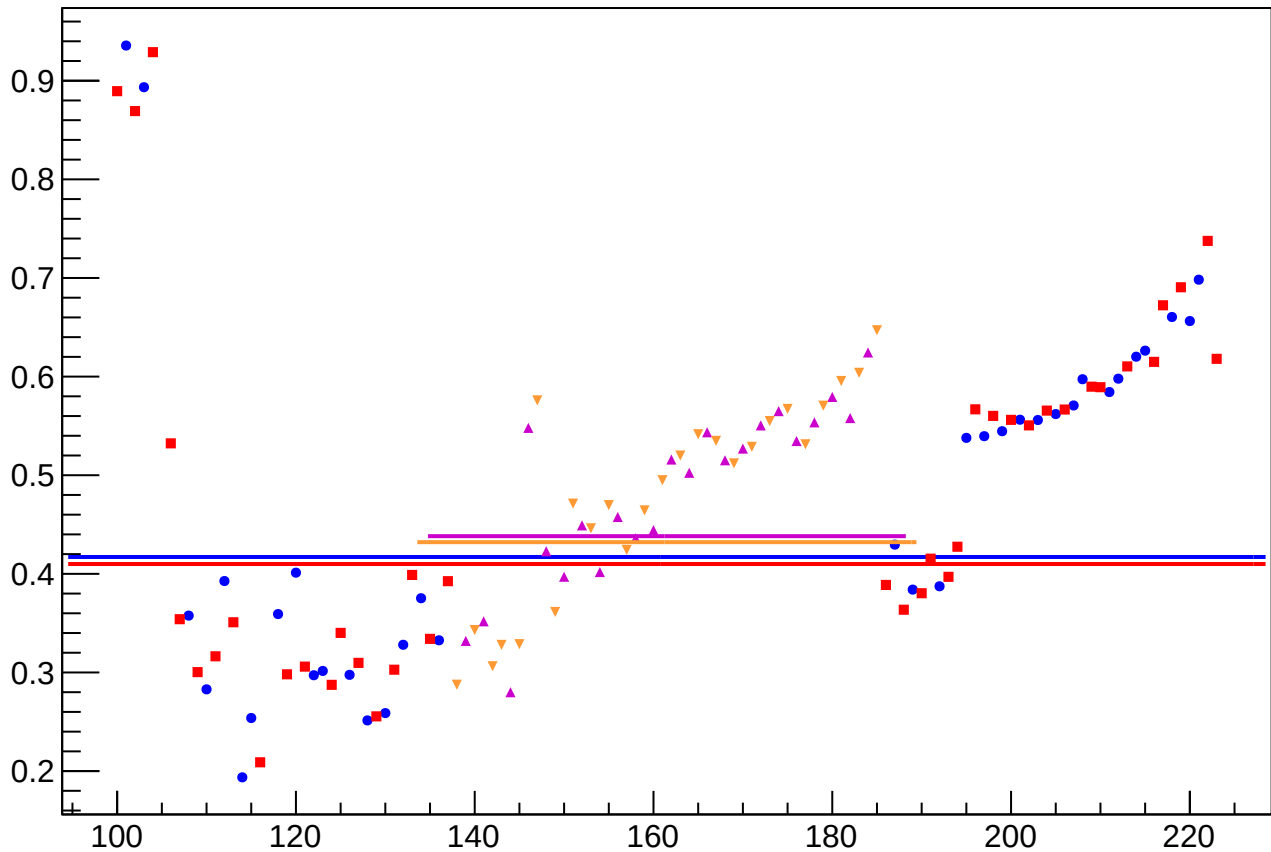
Right: 143.826+/-0.000 χ^2/NDF : 11203940476.7/73

In: 146.286+/-0.000 χ^2/NDF : 4561915616.8/57

Out: 145.736+/-0.000 χ^2/NDF : 9059995298.0/63

All: 146.000+/-0.000 χ^2/NDF : 13650410533.0/114

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.417 $\pm$ 0.000 χ^2 /NDF: 4400394.6/34

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.410 $\pm$ 0.000 χ^2 /NDF: 4209063.4/38

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

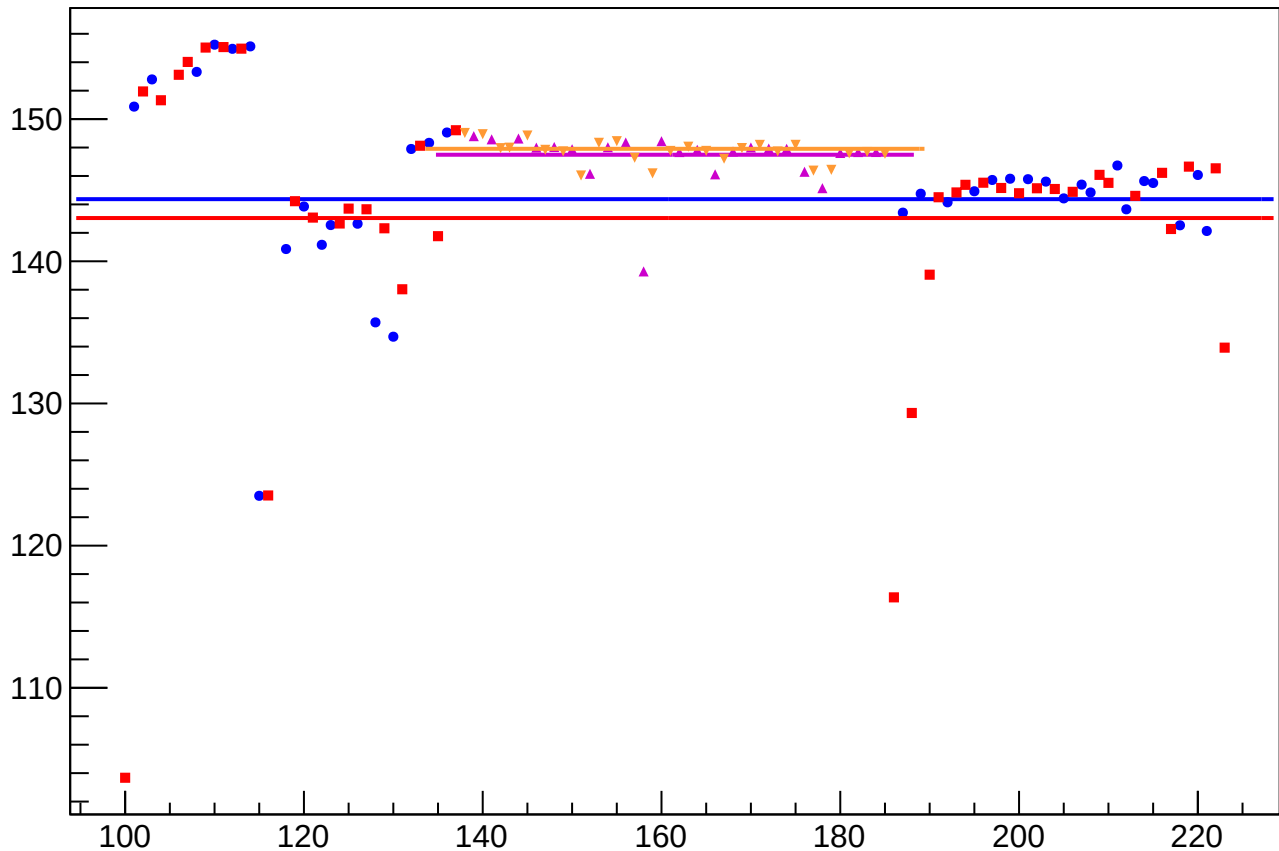
Right: 0.413 $\pm$ 0.000 χ^2 /NDF: 8614575.8/73

In: 0.427 $\pm$ 0.000 χ^2 /NDF:5962581.7/57

Out: 0.420 $\pm$ 0.000 χ^2 /NDF:6185971.0/63

All: 0.423 $\pm$ 0.000 χ^2 /NDF: 12157009.2/121

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.369 $\pm$ 0.000 χ^2 /NDF: 3736039256.8/34

Left Out: 147.911 $\pm$ 0.000 χ^2 /NDF: 64412407.9/24

Right Out: 143.041 $\pm$ 0.000 χ^2 /NDF: 7956062961.7/38

Left In: 147.493 $\pm$ 0.000 χ^2 /NDF: 343978473.2/22

Left: 147.709 $\pm$ 0.000 χ^2 /NDF: 416149781.4/47

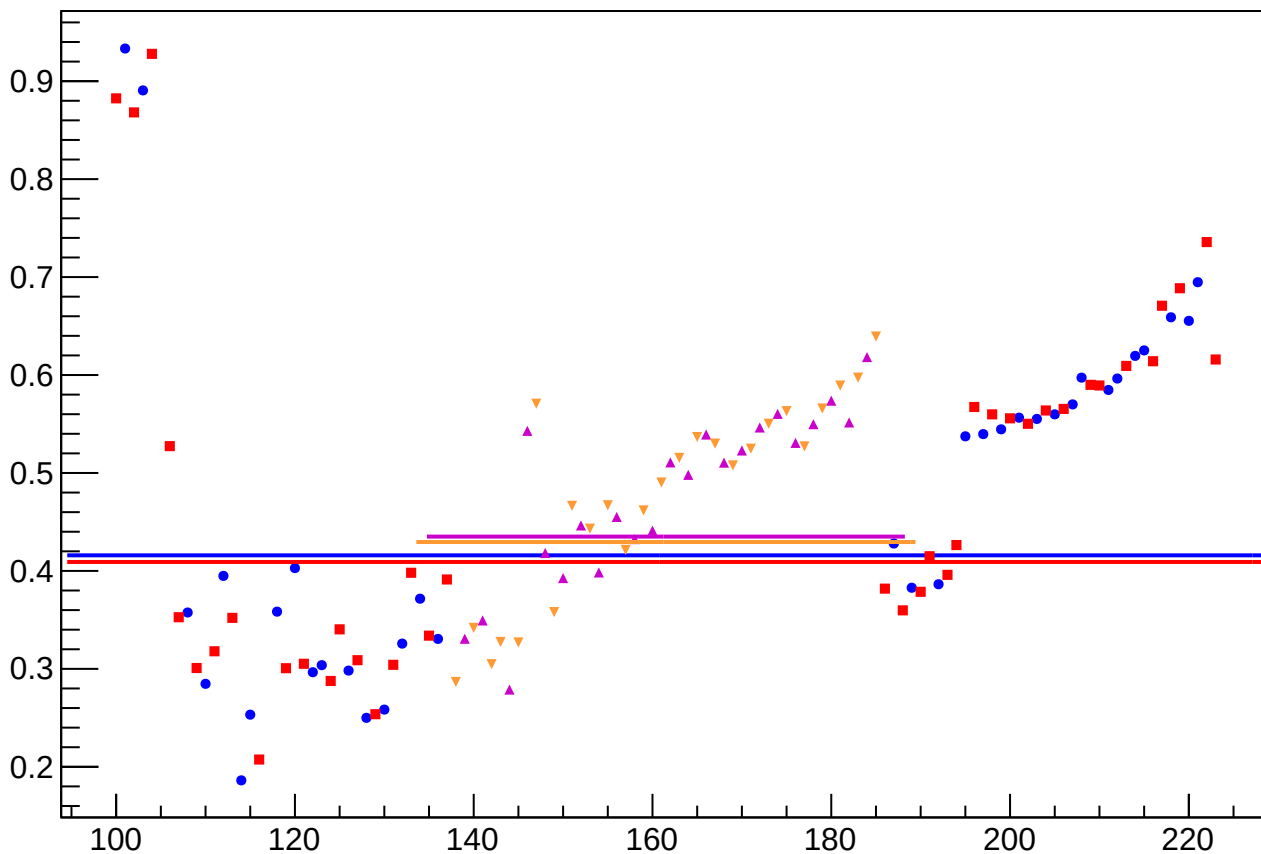
Right: 143.678 $\pm$ 0.000 χ^2 /NDF: 11781389921.1/73

In: 145.834 $\pm$ 0.000 χ^2 /NDF: 4525242157.4/57

Out: 145.309 $\pm$ 0.000 χ^2 /NDF: 9186310227.9/63

All: 145.562 $\pm$ 0.000 χ^2 /NDF: 13737724552.0/114

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.416+/-0.000 χ^2/NDF : 4430538.6/34

Left Out: 0.430+/-0.000 χ^2/NDF :1895701.4/24

Right Out: 0.409+/-0.000 χ^2/NDF : 4210852.3/38

Left In: 0.435+/-0.000 χ^2/NDF :1502712.5/22

Left: 0.432+/-0.000 χ^2/NDF : 3401133.5/47

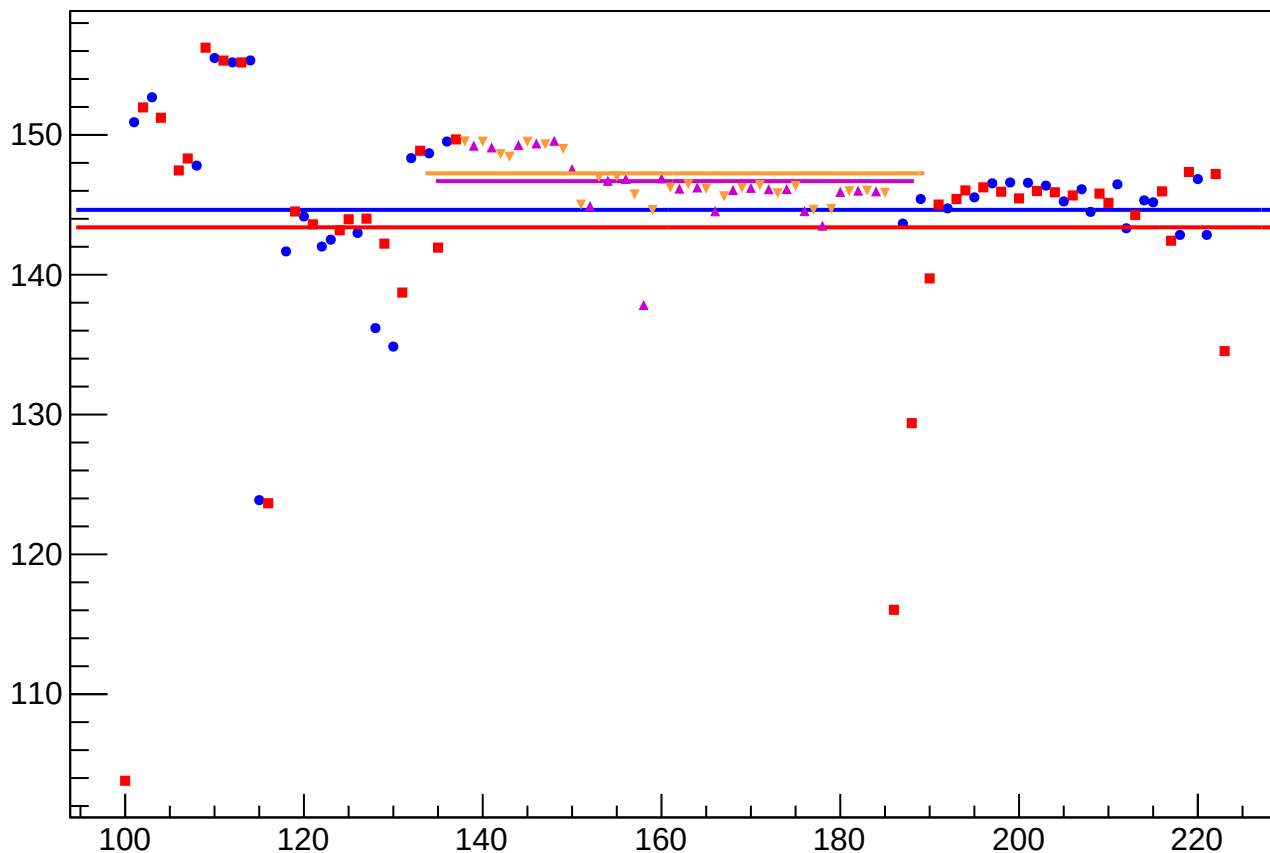
Right: 0.412+/-0.000 χ^2/NDF : 8646049.3/73

In: 0.425+/-0.000 χ^2/NDF :5966649.6/57

Out: 0.419+/-0.000 χ^2/NDF :6147398.2/63

All: 0.422+/-0.000 χ^2/NDF : 12121499.5/121

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.641 ± 0.000 $\chi^2/\text{NDF}: 3253939732.7/34$

Left Out: 147.255 ± 0.000 $\chi^2/\text{NDF}: 262138049.8/24$

Right Out: 143.392 ± 0.000 $\chi^2/\text{NDF}: 7265659611.2/38$

Left In: 146.695 ± 0.000 $\chi^2/\text{NDF}: 557896803.1/22$

Left: 146.984 ± 0.000 $\chi^2/\text{NDF}: 833217060.4/47$

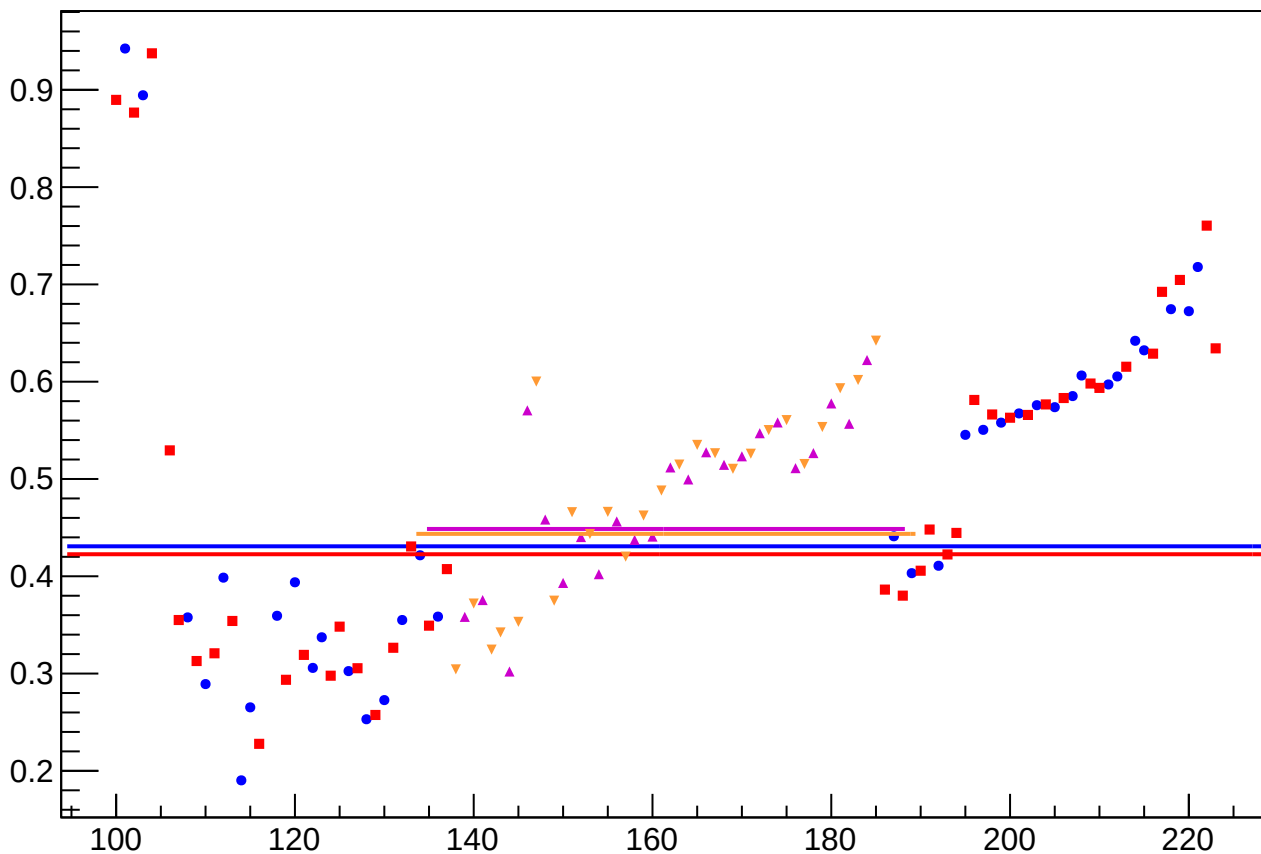
Right: 143.990 ± 0.000 $\chi^2/\text{NDF}: 10593364130.5/73$

In: 145.613 ± 0.000 $\chi^2/\text{NDF}: 3993309719.6/57$

Out: 145.201 ± 0.000 $\chi^2/\text{NDF}: 8218745132.6/63$

All: 145.399 ± 0.000 $\chi^2/\text{NDF}: 12227269696.0/122$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.431 $\pm$ 0.000 χ^2 /NDF: 4289069.6/34

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1483434.7/24

Right Out: 0.423 $\pm$ 0.000 χ^2 /NDF: 4091553.9/38

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

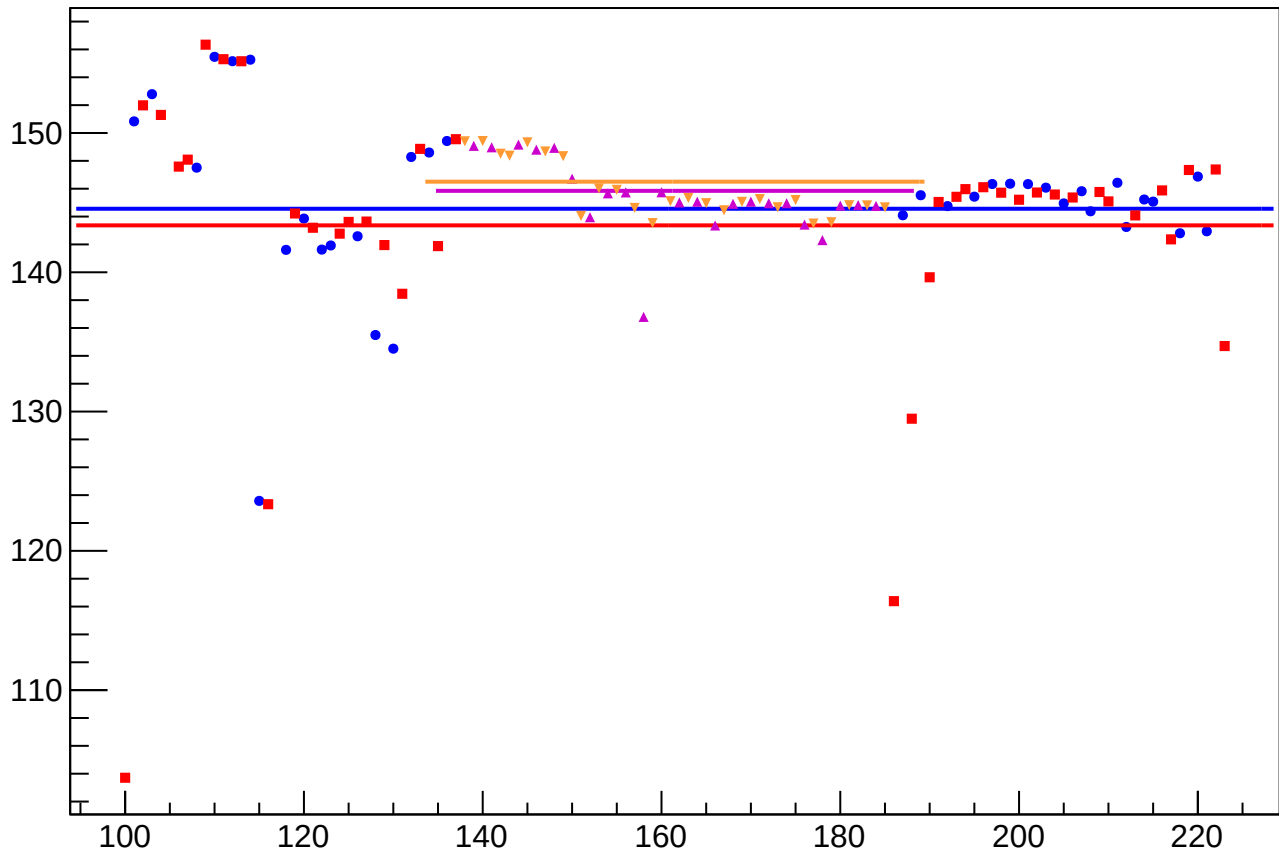
Right: 0.427 $\pm$ 0.000 χ^2 /NDF: 8386915.3/73

In: 0.439 $\pm$ 0.000 χ^2 /NDF:5449056.9/57

Out: 0.432 $\pm$ 0.000 χ^2 /NDF:5615607.7/63

All: 0.436 $\pm$ 0.000 χ^2 /NDF: 11072920.3/121

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.561 $\pm$ 0.000 χ^2 /NDF: 3363100609.6/34

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.368 $\pm$ 0.000 χ^2 /NDF: 7215117512.7/38

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

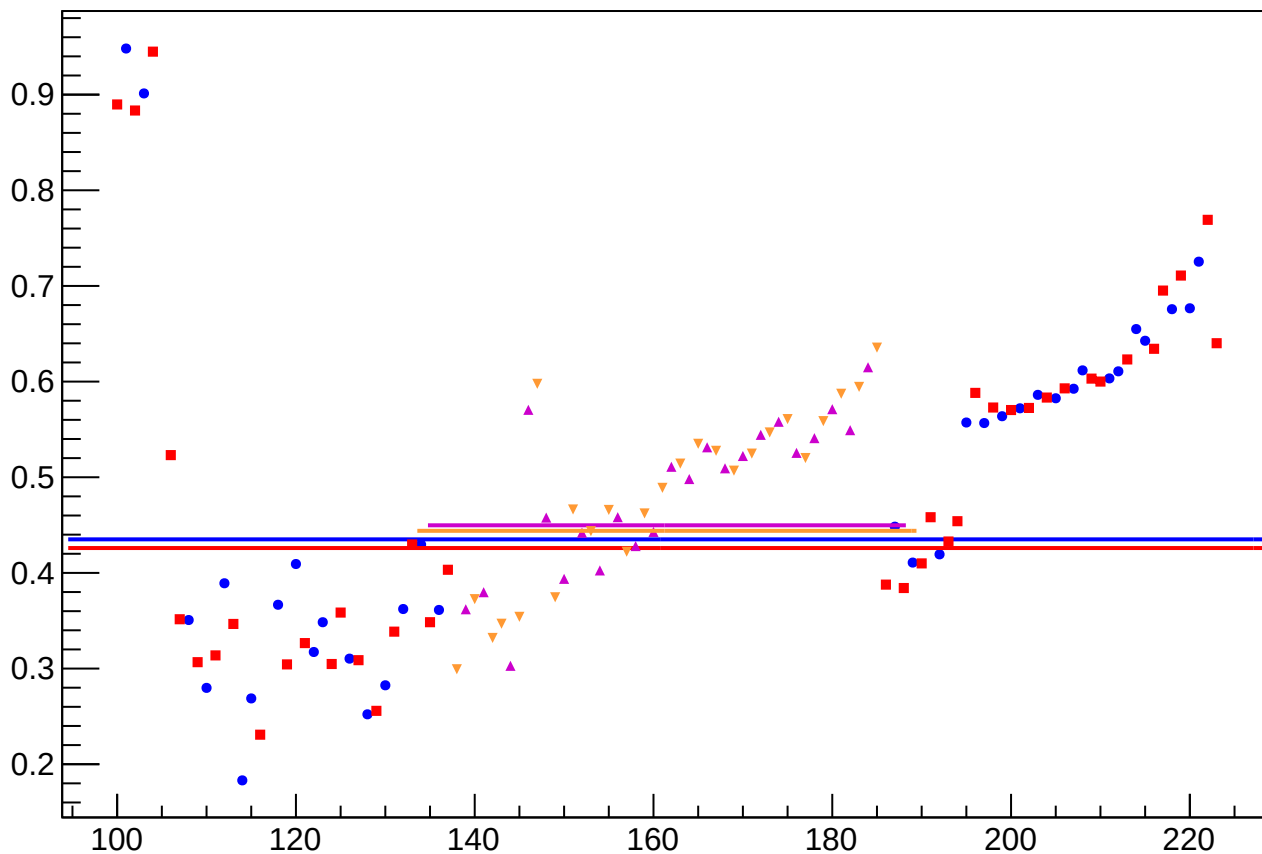
Right: 143.938 $\pm$ 0.000 χ^2 /NDF: 10644193230.1/73

In: 145.175 $\pm$ 0.000 χ^2 /NDF: 4127940833.5/57

Out: 144.850 $\pm$ 0.000 χ^2 /NDF: 8068004624.9/63

All: 145.006 $\pm$ 0.000 χ^2 /NDF: 12205302862.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.435 $\pm$ 0.000 χ^2 /NDF: 4337155.4/34

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1463293.5/24

Right Out: 0.426 $\pm$ 0.000 χ^2 /NDF: 4128052.5/38

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1105405.0/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2571486.5/47

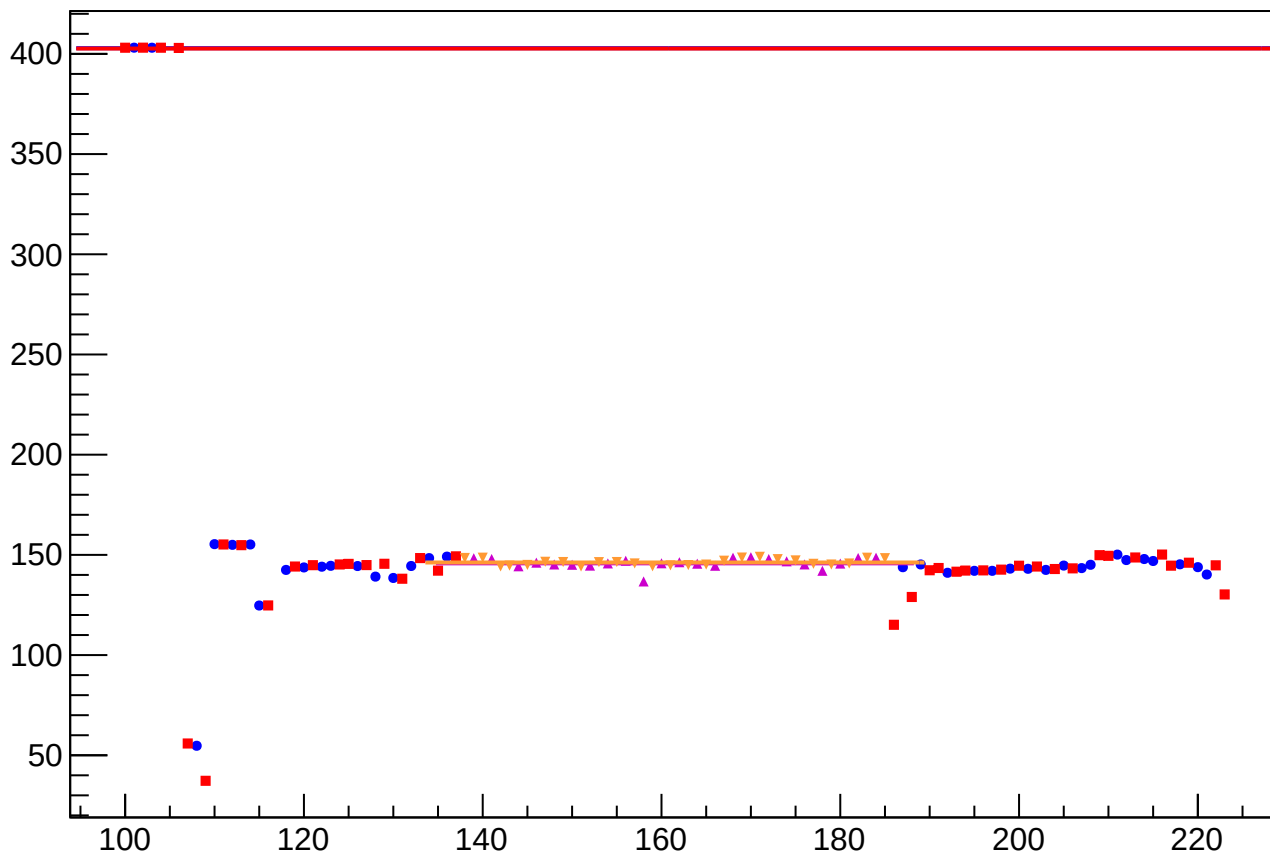
Right: 0.430 $\pm$ 0.000 χ^2 /NDF: 8472862.7/73

In: 0.442 $\pm$ 0.000 χ^2 /NDF:5460844.6/57

Out: 0.435 $\pm$ 0.000 χ^2 /NDF:5621087.1/63

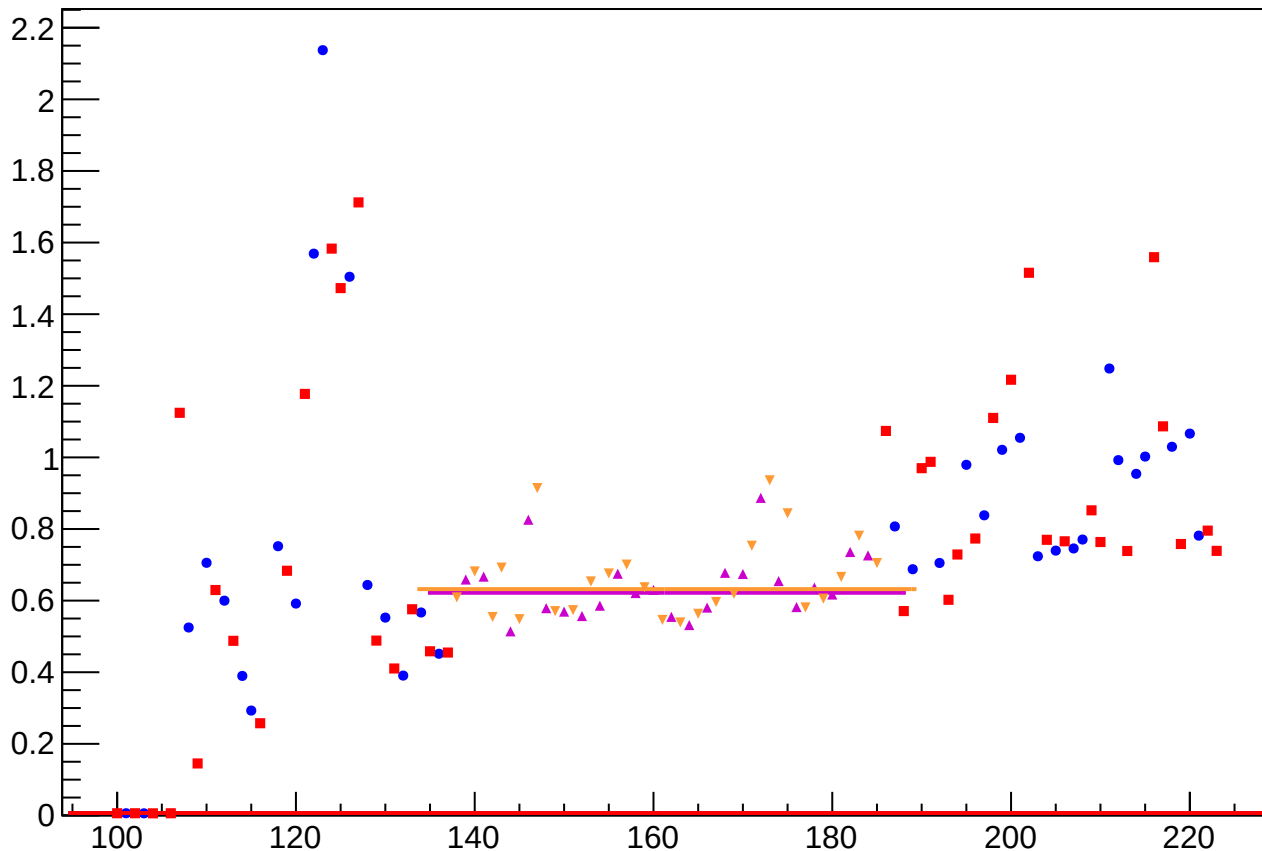
All: 0.438 $\pm$ 0.000 χ^2 /NDF: 11092125.4/121

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.837+/-0.000	χ^2/NDF : 2066087617861.5/34	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.746+/-0.000	χ^2/NDF : 6399033776667.5/
Right Out: 402.665+/-0.000	χ^2/NDF : 4332456063145.3/38	In: 402.544+/-0.000	χ^2/NDF : 4413923489185.4/57
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.404+/-0.000	χ^2/NDF : 6699372259402.1/6
		All: 402.470+/-0.000	χ^2/NDF : 111136234530

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 30355154.6/34

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 32586950.2/38

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

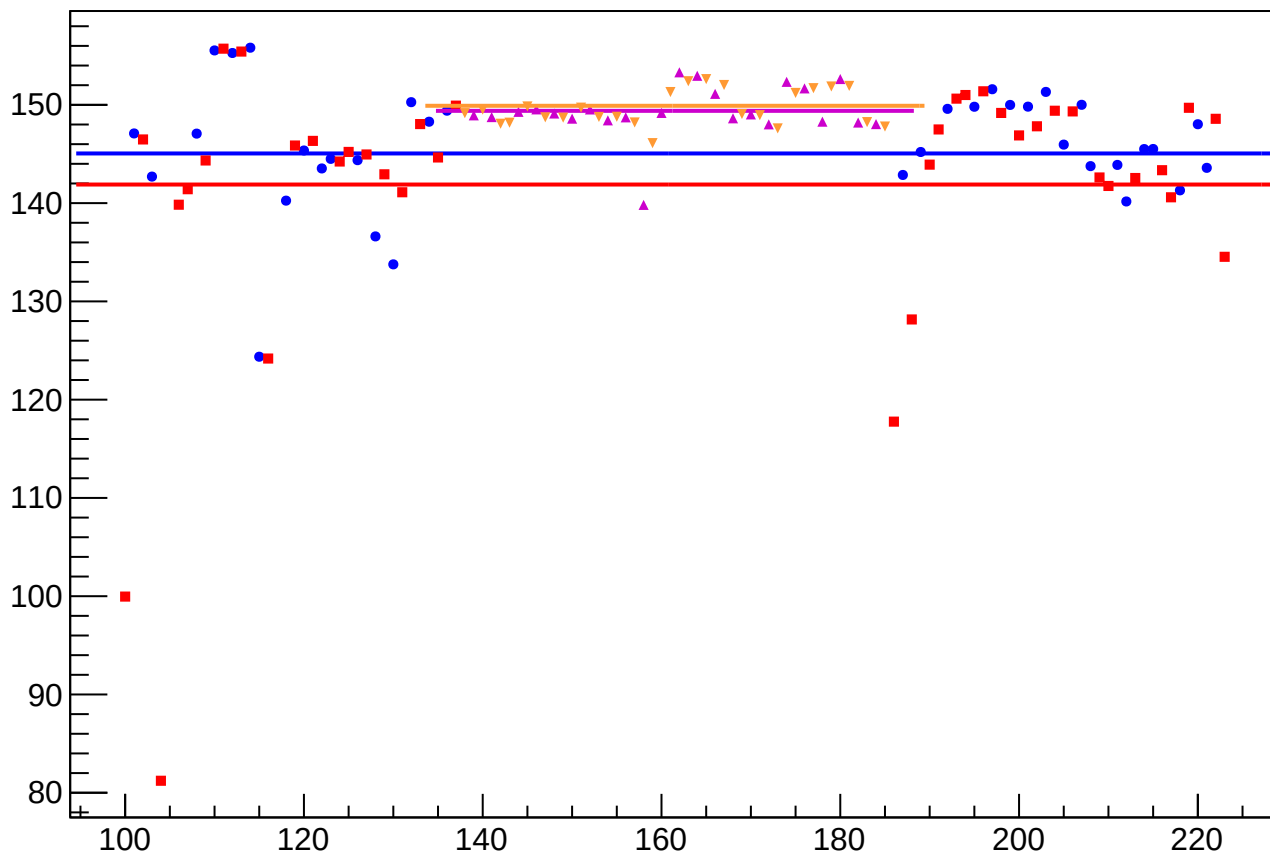
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 62942105.0/73

In: 0.007 $\pm$ 0.000 χ^2 /NDF:57651500.4/57

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:61349347.3/63

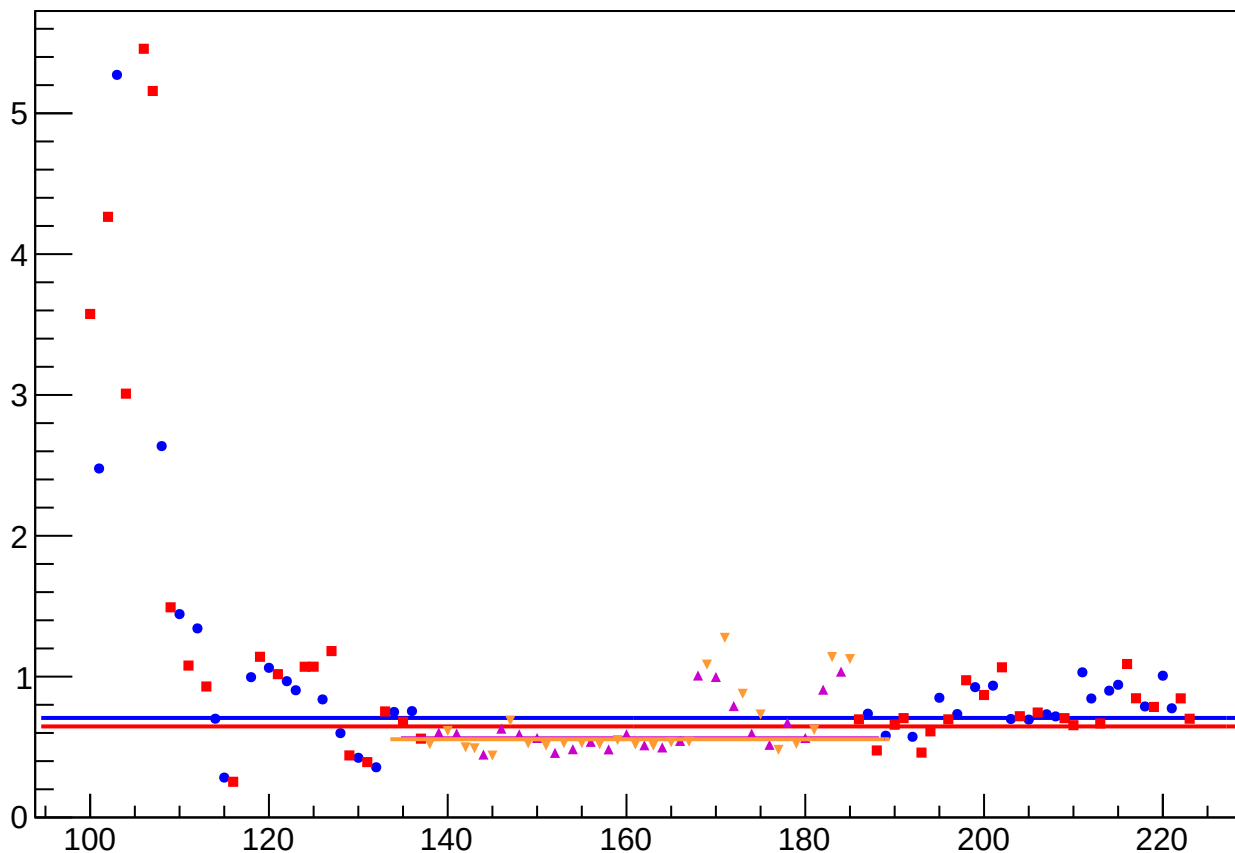
All: 0.007 $\pm$ 0.000 χ^2 /NDF: 119000991.7/123

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.054 $\pm$ 0.000	χ^2 /NDF: 1388781927.8/34	Left: 149.657 $\pm$ 0.000	χ^2 /NDF: 606930259.3/47
Left Out: 149.906 $\pm$ 0.000	χ^2 /NDF: 163261802.4/24	Right: 143.309 $\pm$ 0.000	χ^2 /NDF: 4967015164.5/73
Right Out: 141.892 $\pm$ 0.000	χ^2 /NDF: 3419369315.6/38	In: 147.756 $\pm$ 0.000	χ^2 /NDF: 2163186514.0/57
Left In: 149.391 $\pm$ 0.000	χ^2 /NDF: 437129920.4/22	Out: 146.616 $\pm$ 0.000	χ^2 /NDF: 4925129757.8/63
		All: 147.151 $\pm$ 0.000	χ^2 /NDF: 7141005874.1

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.707+/-0.000 χ^2/NDF : 4515632.5/34

Left Out: 0.555+/-0.000 χ^2/NDF :1773380.1/24

Right Out: 0.646+/-0.000 χ^2/NDF : 6062931.9/38

Left In: 0.562+/-0.000 χ^2/NDF :1311075.2/22

Left: 0.559+/-0.000 χ^2/NDF : 3086646.6/47

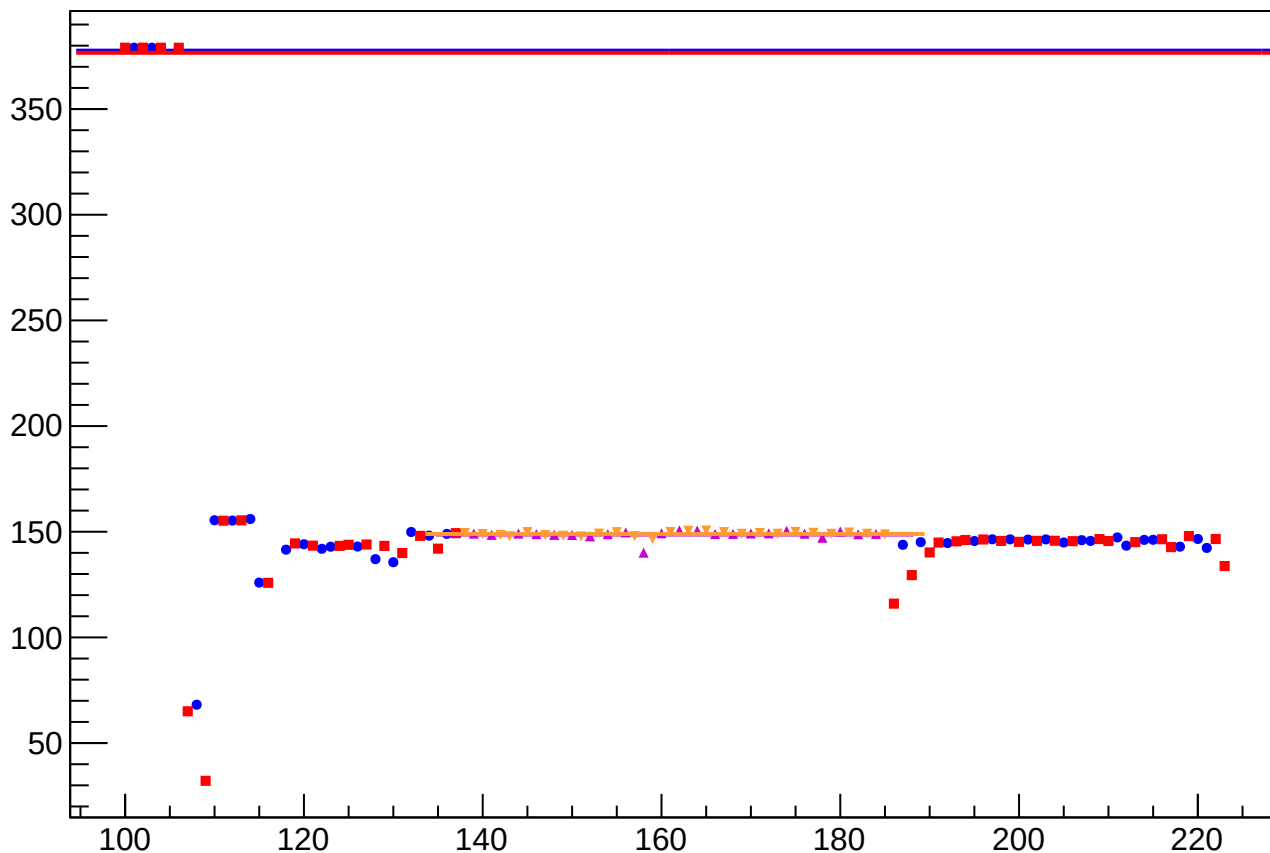
Right: 0.673+/-0.000 χ^2/NDF : 10693983.2/73

In: 0.617+/-0.000 χ^2/NDF :6576340.7/57

Out: 0.593+/-0.000 χ^2/NDF :8182204.5/63

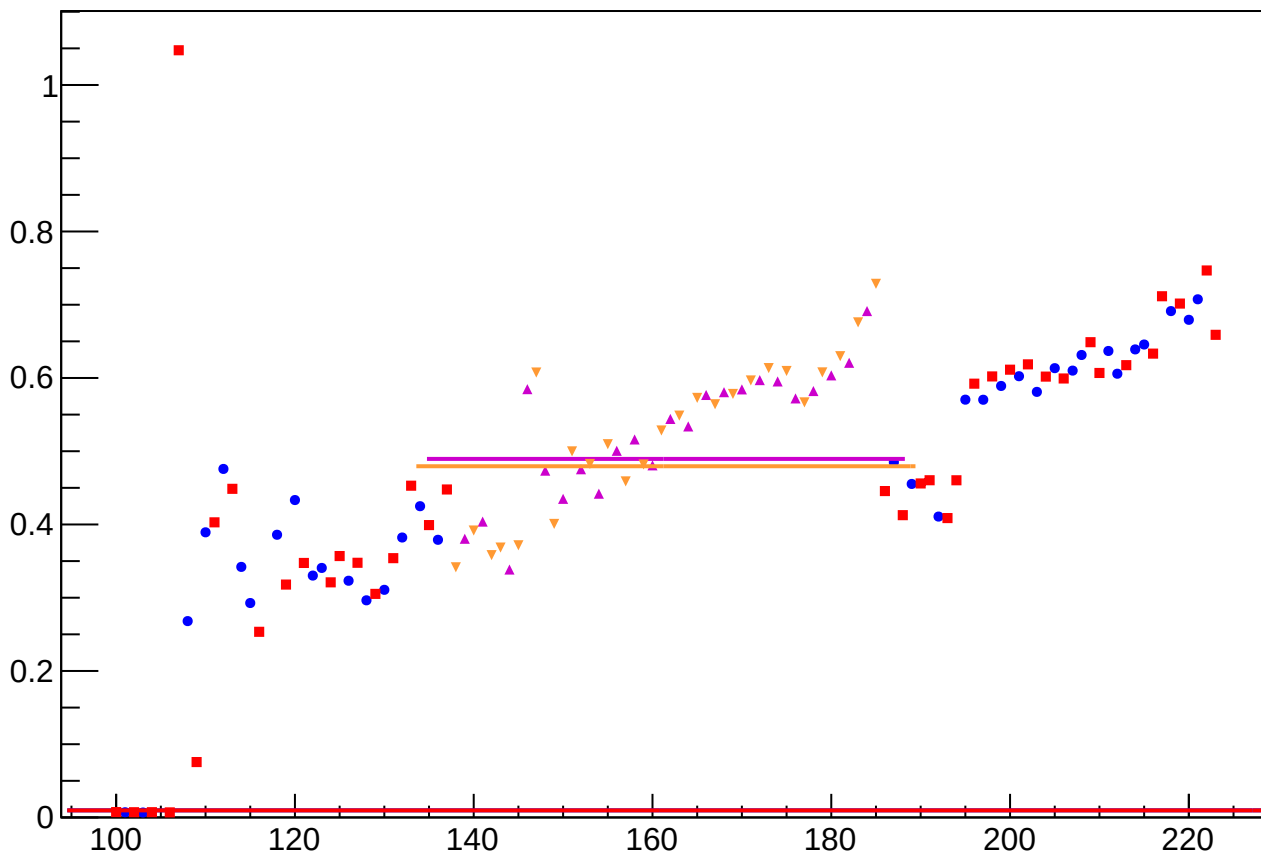
All: 0.604+/-0.000 χ^2/NDF : 14804505.6/121

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.639 $\pm$ 0.000	χ^2 /NDF: 4503582911285.3/34	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: 377.103 $\pm$ 0.000	χ^2 /NDF: 15137701679324.0
Right Out: 376.632 $\pm$ 0.000	χ^2 /NDF: 10626909634427.8/38	In: 376.464 $\pm$ 0.000	χ^2 /NDF: 8097551777140.3/57
Left In: 148.683 $\pm$ 0.000	χ^2 /NDF: 253848207.3/22	Out: 375.518 $\pm$ 0.000	χ^2 /NDF: 14488803491780.4
		All: 375.960 $\pm$ 0.000	χ^2 /NDF: 225927433273.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 34715944.5/34

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 35251223.0/38

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

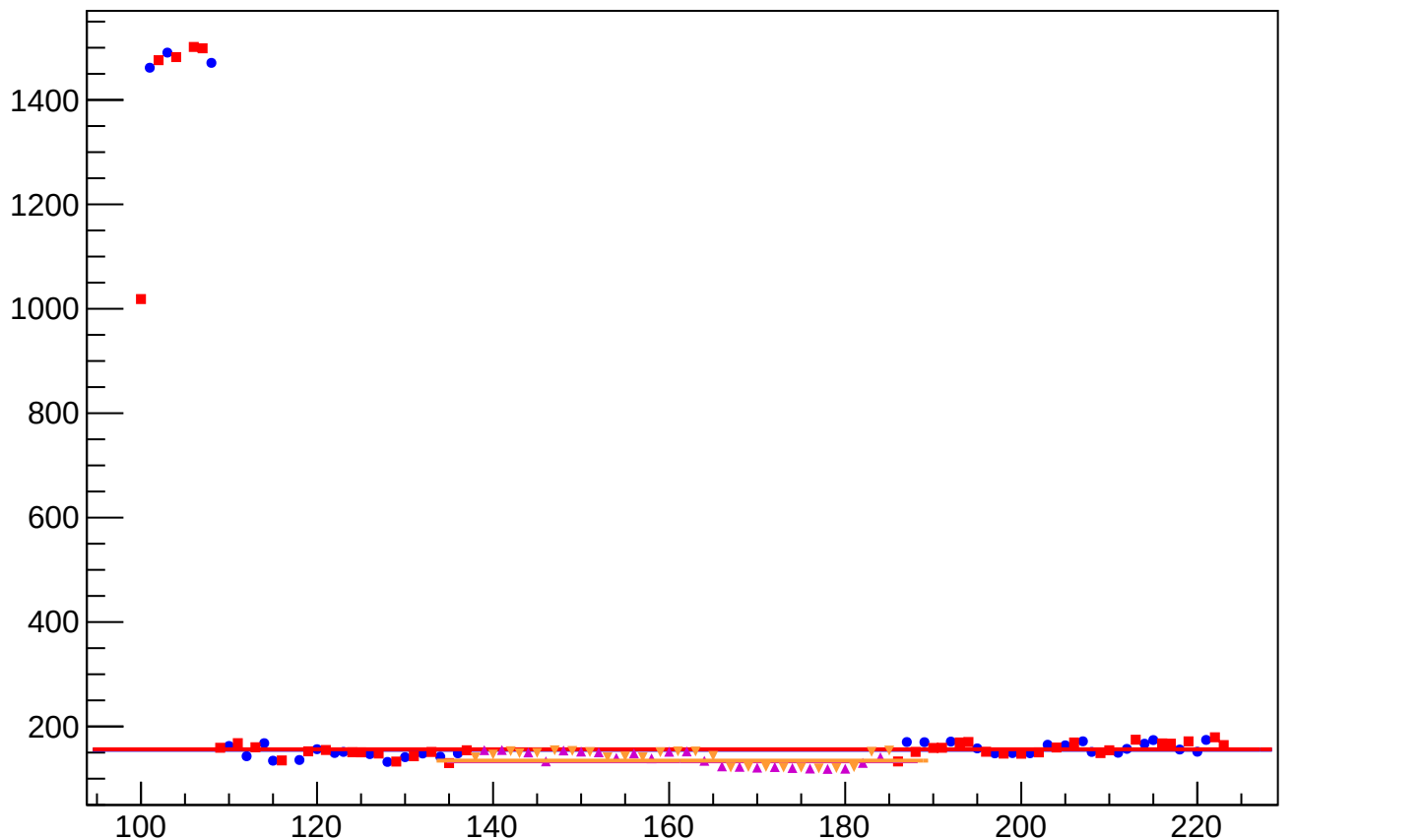
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 69967219.4/73

In: 0.012 $\pm$ 0.000 χ^2 /NDF:67370767.6/57

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:69658628.3/63

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 137030119.2/121

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.364 $\pm$ 0.000 χ^2 /NDF: 26312625578.3/34

Left Out: 134.585 $\pm$ 0.000 χ^2 /NDF: 4387324151.1/24

Right Out: 156.325 $\pm$ 0.000 χ^2 /NDF: 35656951112.2/38

Left In: 133.309 $\pm$ 0.000 χ^2 /NDF: 4353039408.6/22

Left: 133.958 $\pm$ 0.000 χ^2 /NDF: 8759337937.7/47

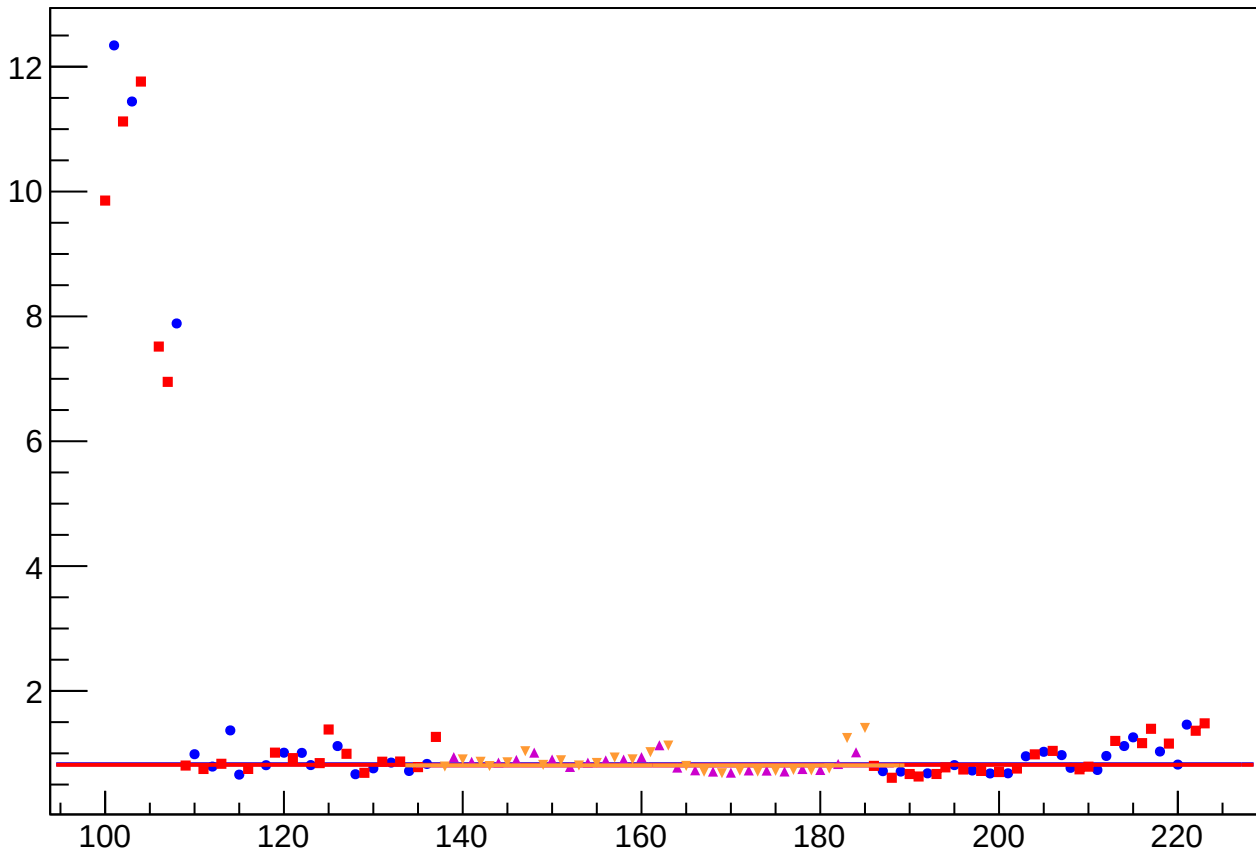
Right: 155.856 $\pm$ 0.000 χ^2 /NDF: 61979806896.8/73

In: 144.019 $\pm$ 0.000 χ^2 /NDF: 36085718844.1/57

Out: 145.209 $\pm$ 0.000 χ^2 /NDF: 45527552704.4/63

All: 144.626 $\pm$ 0.000 χ^2 /NDF: 81645515403.0/141

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.825+/-0.000 χ^2/NDF : 3673434.6/34

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.816+/-0.000 χ^2/NDF : 4296293.1/38

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

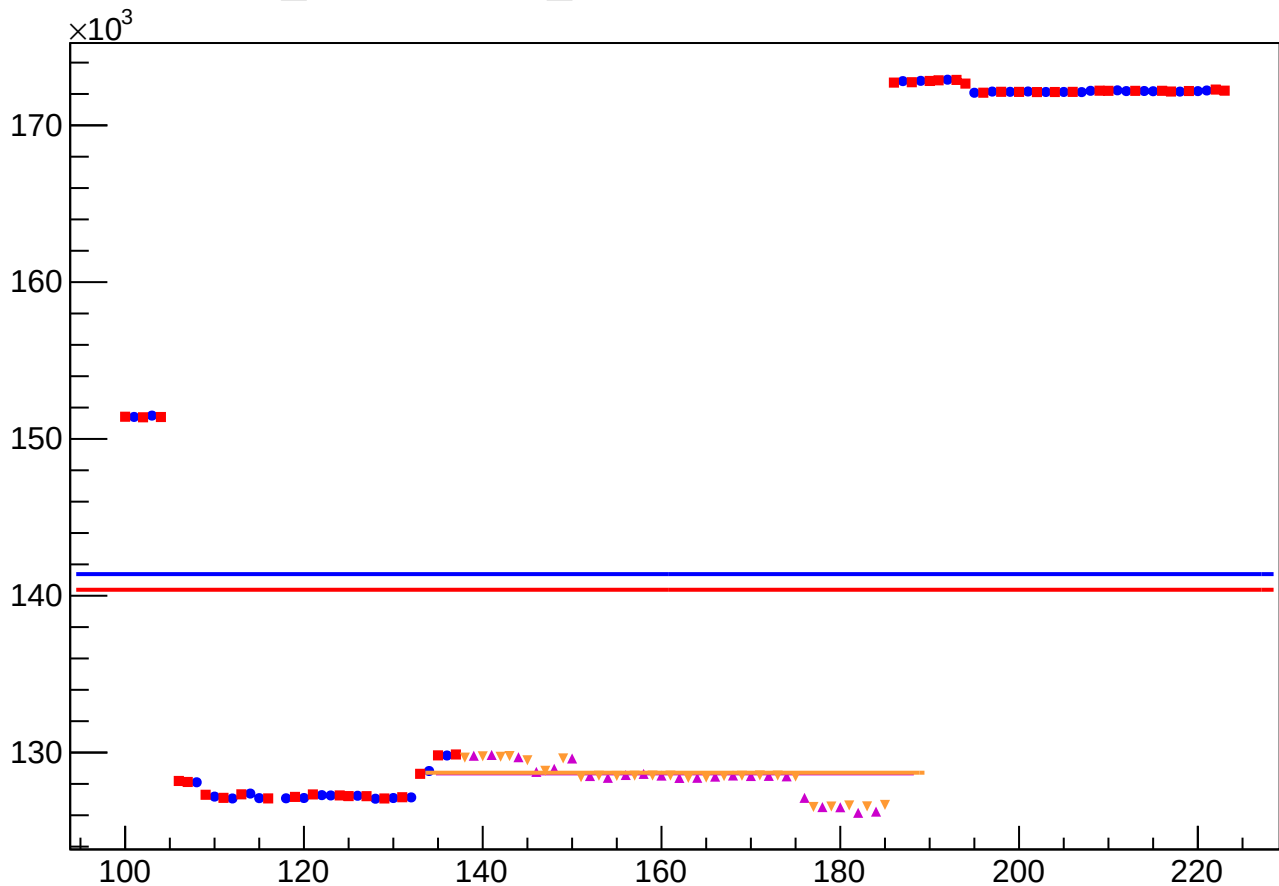
Right: 0.821+/-0.000 χ^2/NDF : 7971438.1/73

In: 0.815+/-0.000 χ^2/NDF : 4162696.3/57

Out: 0.811+/-0.000 χ^2/NDF : 5002705.9/63

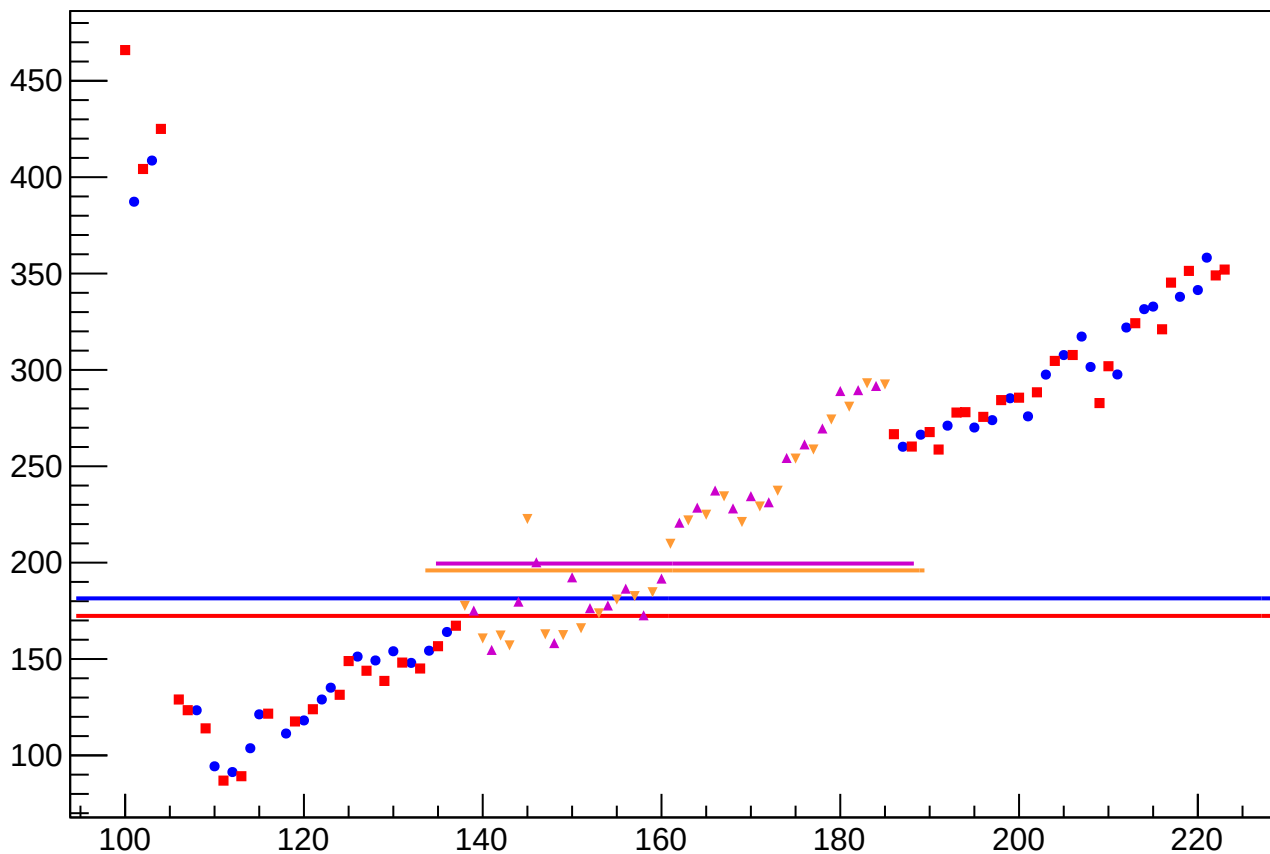
All: 0.813+/-0.000 χ^2/NDF : 9165850.1/121

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 141379.181 $\pm$ 0.046 χ^2 /NDF: 202219704882.0/34
 Left Out: 128713.791 $\pm$ 0.047 χ^2 /NDF: 348293942.5/24
 Right Out: 140381.444 $\pm$ 0.043 χ^2 /NDF: 221712349221.0/38
 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: 140847.544 $\pm$ 0.031 χ^2 /NDF: 424186614071
 In: 135452.690 $\pm$ 0.033 χ^2 /NDF: 238701500438.7
 Out: 135056.961 $\pm$ 0.032 χ^2 /NDF: 256066622575.
 All: 135243.654 $\pm$ 0.023 χ^2 /NDF: 494842509

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 181.464 $\pm$ 0.032 χ^2 /NDF: 7598791.0/34

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 172.368 $\pm$ 0.030 χ^2 /NDF: 8227893.4/38

Left In: 199.531 $\pm$ 0.035 χ^2 /NDF:1175342.5/22

Left: 197.666 $\pm$ 0.024 χ^2 /NDF: 2497014.2/47

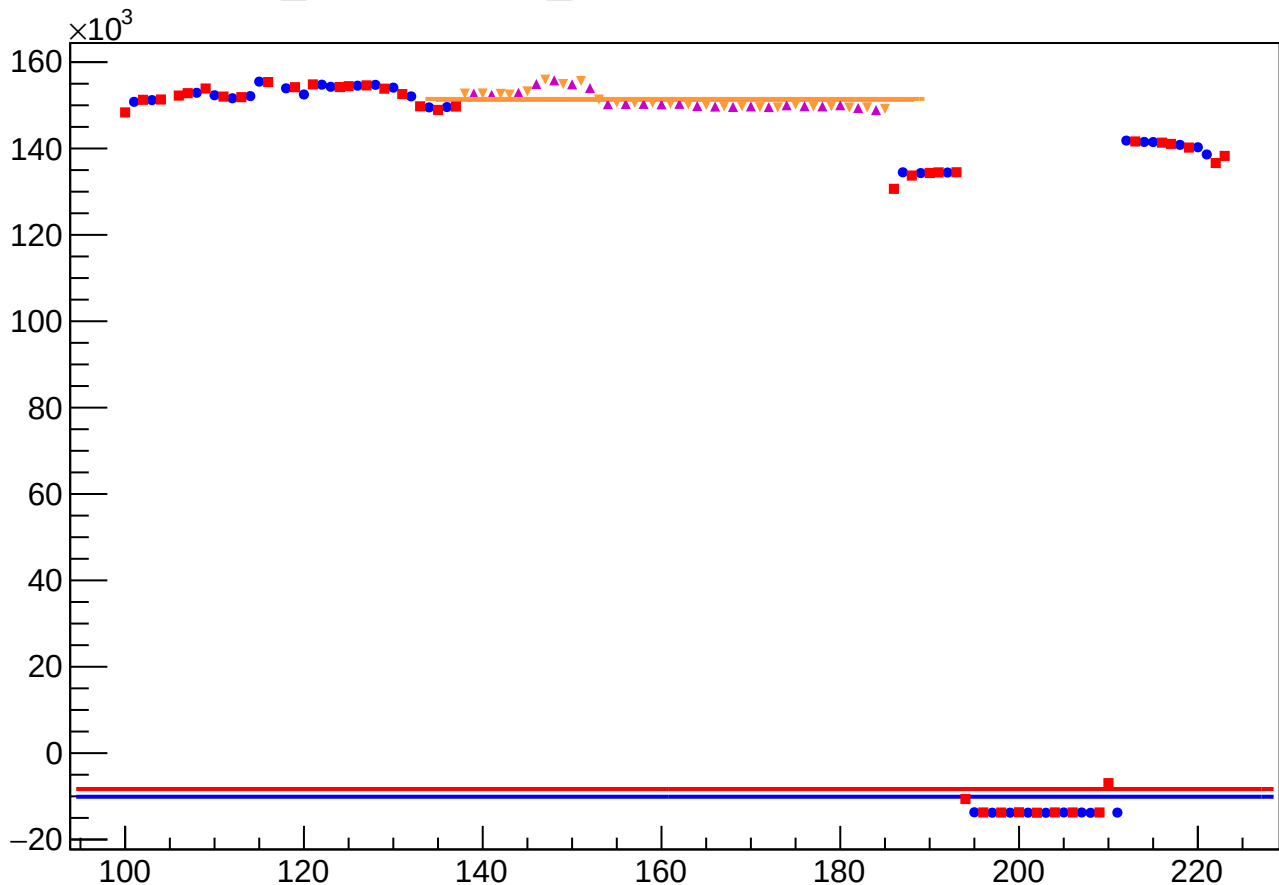
Right: 176.618 $\pm$ 0.022 χ^2 /NDF: 15868999.0/73

In: 189.889 $\pm$ 0.024 χ^2 /NDF:8920227.1/57

Out: 183.136 $\pm$ 0.022 χ^2 /NDF:9822132.5/63

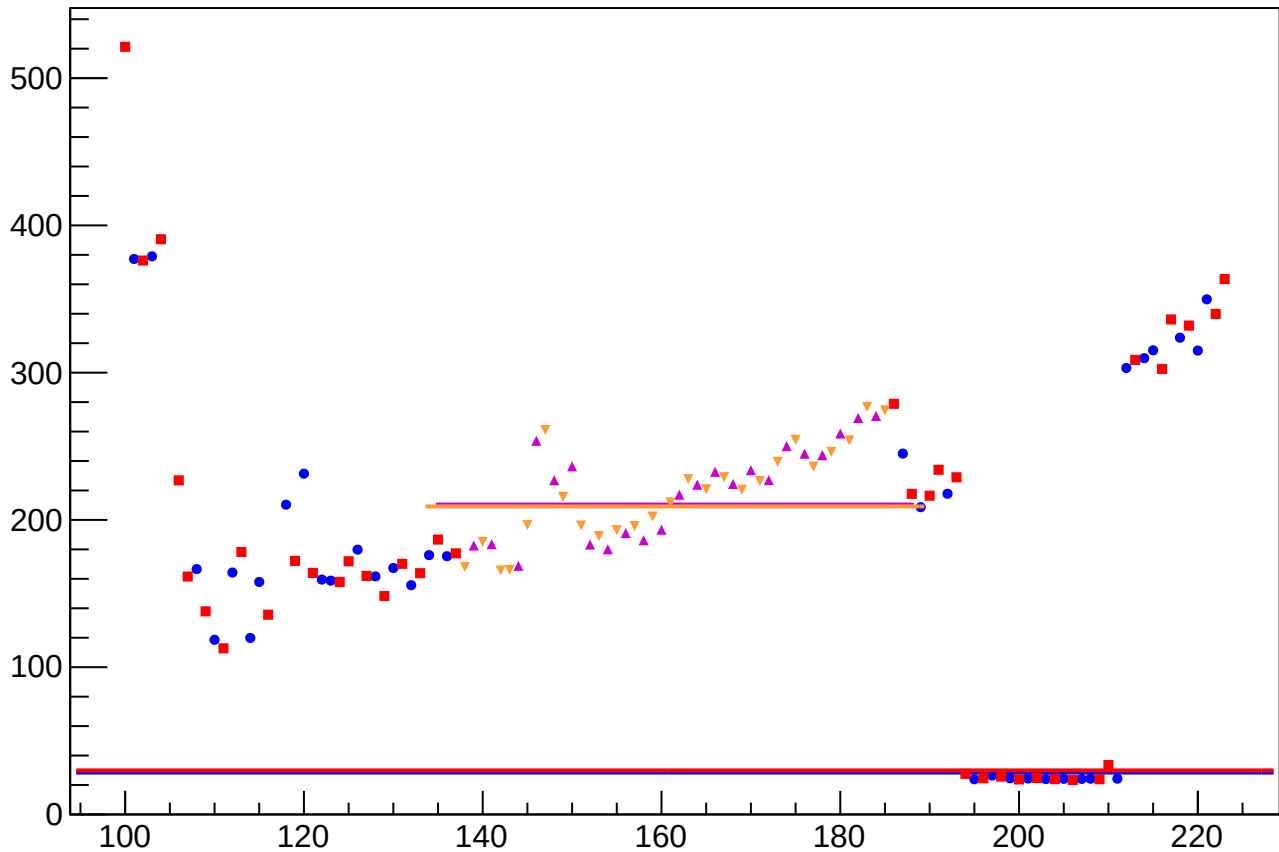
All: 186.322 $\pm$ 0.016 χ^2 /NDF: 18785685.7/12

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10097.810+/-0.009	$\chi^2/\text{NDF}: 6913232029028.0/34$	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: -9279.991+/-0.007	$\chi^2/\text{NDF}: 1495811419485$
Right Out: -8302.150+/-0.010	$\chi^2/\text{NDF}: 8027455285155.7/38$	In: -5073.658+/-0.009	$\chi^2/\text{NDF}: 16541121638662.4$
Left In: 151362.440+/-0.051	$\chi^2/\text{NDF}: 1426782789.9/22$	Out: -1984.381+/-0.010	$\chi^2/\text{NDF}: 18047850823966$
		All: -3659.979+/-0.007	$\chi^2/\text{NDF}: 3464246274$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.440 ± 0.006 $\chi^2/\text{NDF}: 19261496.6/34$

Left Out: 209.156 ± 0.035 $\chi^2/\text{NDF}: 710094.9/24$

Right Out: 29.919 ± 0.007 $\chi^2/\text{NDF}: 20373536.6/38$

Left In: 210.431 ± 0.036 $\chi^2/\text{NDF}: 684015.0/22$

Left: 209.771 ± 0.025 $\chi^2/\text{NDF}: 1394750.9/47$

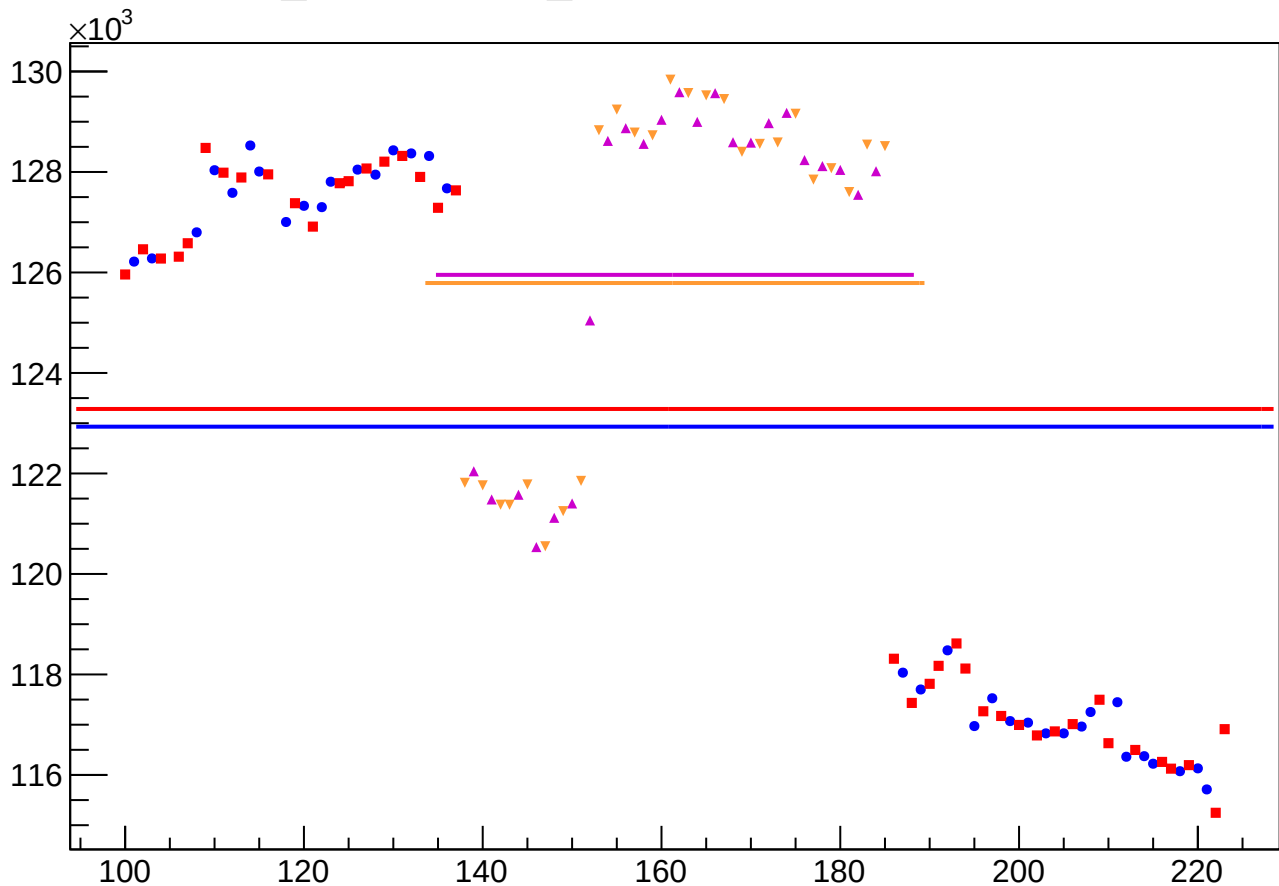
Right: 29.113 ± 0.005 $\chi^2/\text{NDF}: 39658675.1/73$

In: 34.103 ± 0.006 $\chi^2/\text{NDF}: 44406009.4/57$

Out: 37.006 ± 0.007 $\chi^2/\text{NDF}: 46297996.0/63$

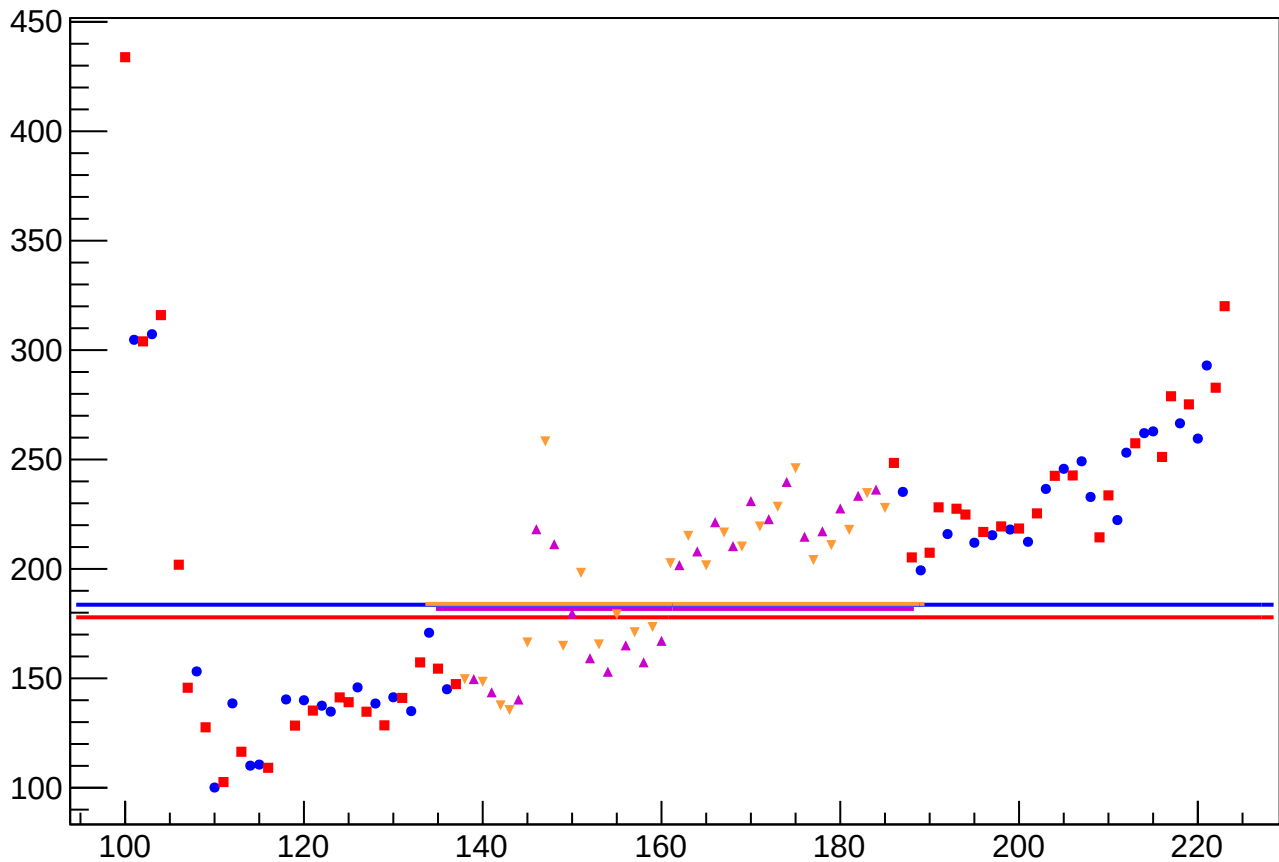
All: 35.431 ± 0.005 $\chi^2/\text{NDF}: 90798467.0/121$

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 122931.169+/-0.043	χ^2/NDF : 15255964131.3/34	Left: 125870.001+/-0.031	χ^2/NDF : 12592819321.6/24
Left Out: 125790.126+/-0.044	χ^2/NDF : 6744310079.8/24	Right: 123115.215+/-0.030	χ^2/NDF : 31379373936.6/24
Right Out: 123283.616+/-0.042	χ^2/NDF : 16089095647.7/38	In: 124401.217+/-0.031	χ^2/NDF : 23447271387.6/5
Left In: 125952.447+/-0.045	χ^2/NDF : 5841800367.5/22	Out: 124467.436+/-0.030	χ^2/NDF : 24548904569.3/22
		All: 124435.343+/-0.022	χ^2/NDF : 479985042.7/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 183.646 $\pm$ 0.031 χ^2 /NDF: 3349872.8/34

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF:1126592.5/24

Right Out: 177.887 $\pm$ 0.029 χ^2 /NDF: 3929173.6/38

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

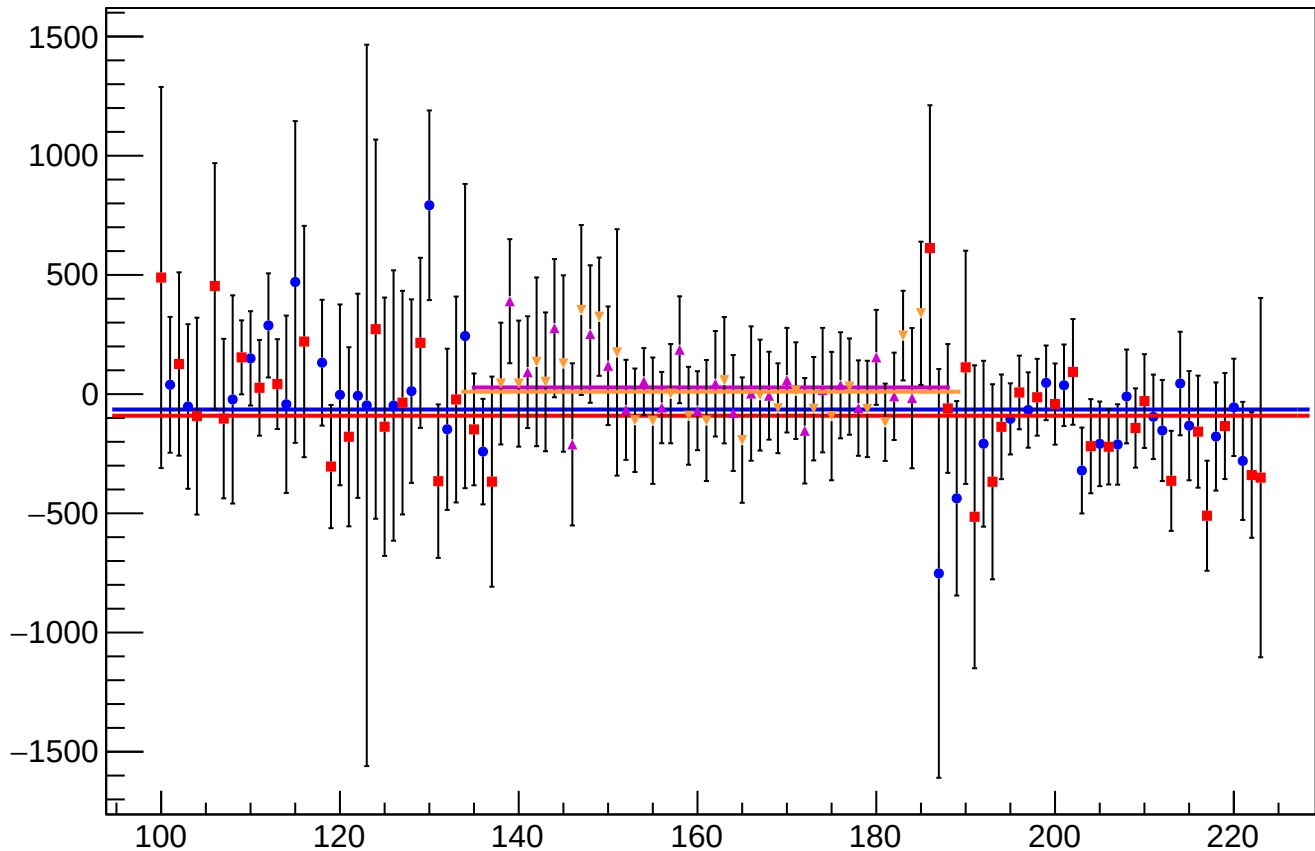
Right: 180.639 $\pm$ 0.021 χ^2 /NDF: 7297371.5/73

In: 182.706 $\pm$ 0.022 χ^2 /NDF:4467936.7/57

Out: 180.788 $\pm$ 0.021 χ^2 /NDF:5076370.2/63

All: 181.717 $\pm$ 0.015 χ^2 /NDF: 9548213.9/123

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -64.520 ± 40.485 χ^2/NDF : 18.4/34

Left Out: 10.078 ± 47.488 χ^2/NDF : 8.5/24

Right Out: -90.574 ± 40.416 χ^2/NDF : 19.9/38

Left In: 28.050 ± 44.573 χ^2/NDF : 7.0/22

Left: 19.632 ± 32.499 χ^2/NDF : 15.5/47

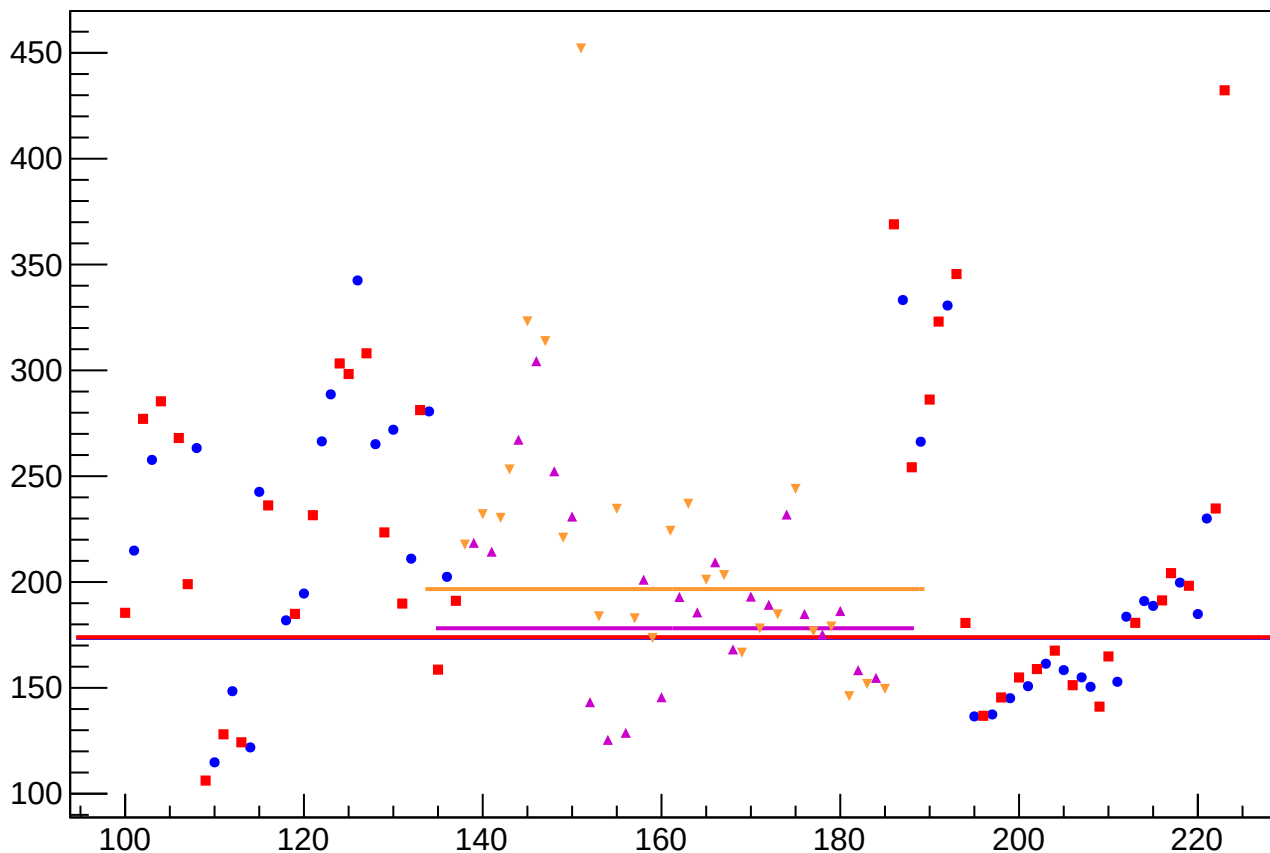
Right: -77.569 ± 28.603 χ^2/NDF : 38.5/73

In: -22.674 ± 29.968 χ^2/NDF : 27.7/57

Out: -48.294 ± 30.778 χ^2/NDF : 31.0/63

All: -35.142 ± 21.471 χ^2/NDF : 59.1/121

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 173.636 ± 0.029 $\chi^2/\text{NDF}: 2325035.9/34$

Left Out: 196.682 ± 0.034 $\chi^2/\text{NDF}: 1782715.7/24$

Right Out: 173.942 ± 0.029 $\chi^2/\text{NDF}: 3284018.0/38$

Left In: 178.166 ± 0.032 $\chi^2/\text{NDF}: 1618967.9/22$

Left: 186.838 ± 0.023 $\chi^2/\text{NDF}: 3563331.3/47$

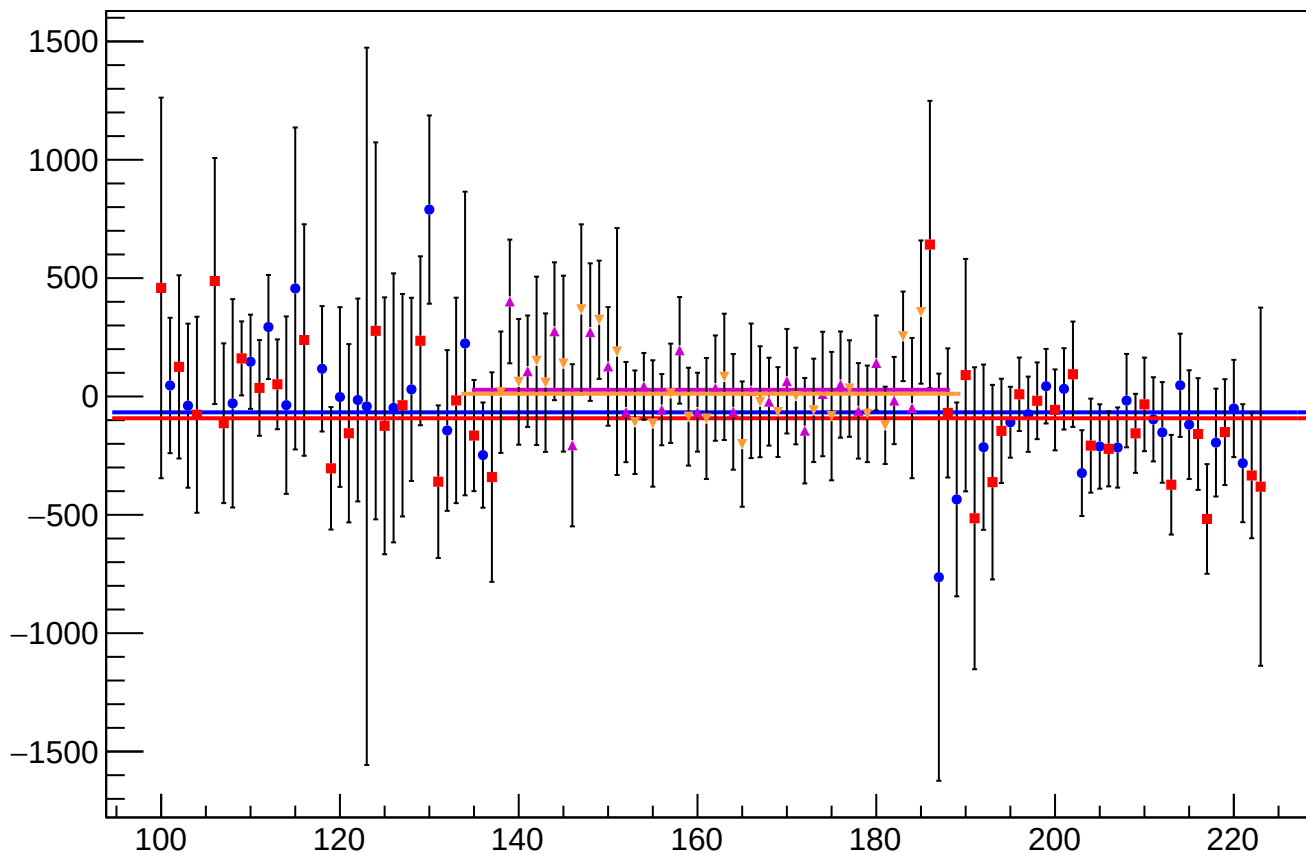
Right: 173.789 ± 0.020 $\chi^2/\text{NDF}: 5609111.3/73$

In: 175.683 ± 0.021 $\chi^2/\text{NDF}: 3955323.1/57$

Out: 183.494 ± 0.022 $\chi^2/\text{NDF}: 5332682.9/63$

All: 179.485 ± 0.015 $\chi^2/\text{NDF}: 9354124.3/123$

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -67.014 ± 40.672 χ^2/NDF : 18.4/34

Left Out: 11.479 ± 47.819 χ^2/NDF : 8.8/24

Right Out: -92.012 ± 40.612 χ^2/NDF : 20.4/38

Left In: 28.280 ± 44.863 χ^2/NDF : 7.1/22

Left: 20.415 ± 32.718 χ^2/NDF : 16.0/47

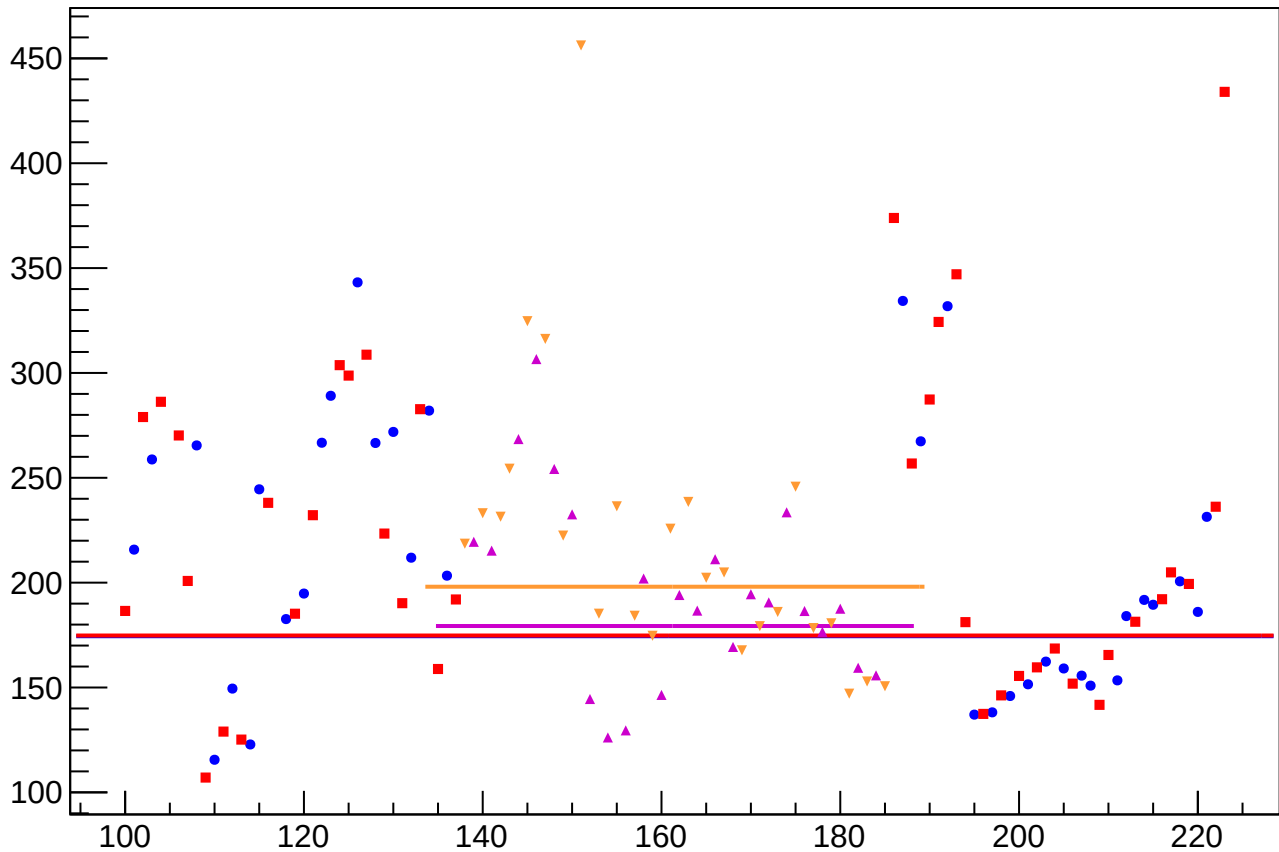
Right: -79.531 ± 28.738 χ^2/NDF : 39.0/73

In: -24.026 ± 30.132 χ^2/NDF : 27.9/57

Out: -48.646 ± 30.955 χ^2/NDF : 32.0/63

All: -36.004 ± 21.592 χ^2/NDF : 60.2/121

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 174.453 ± 0.029 $\chi^2/\text{NDF}: 2317326.5/34$

Left Out: 198.059 ± 0.034 $\chi^2/\text{NDF}: 1778526.5/24$

Right Out: 174.794 ± 0.029 $\chi^2/\text{NDF}: 3279869.8/38$

Left In: 179.324 ± 0.032 $\chi^2/\text{NDF}: 1618266.2/22$

Left: 188.094 ± 0.023 $\chi^2/\text{NDF}: 3560073.1/47$

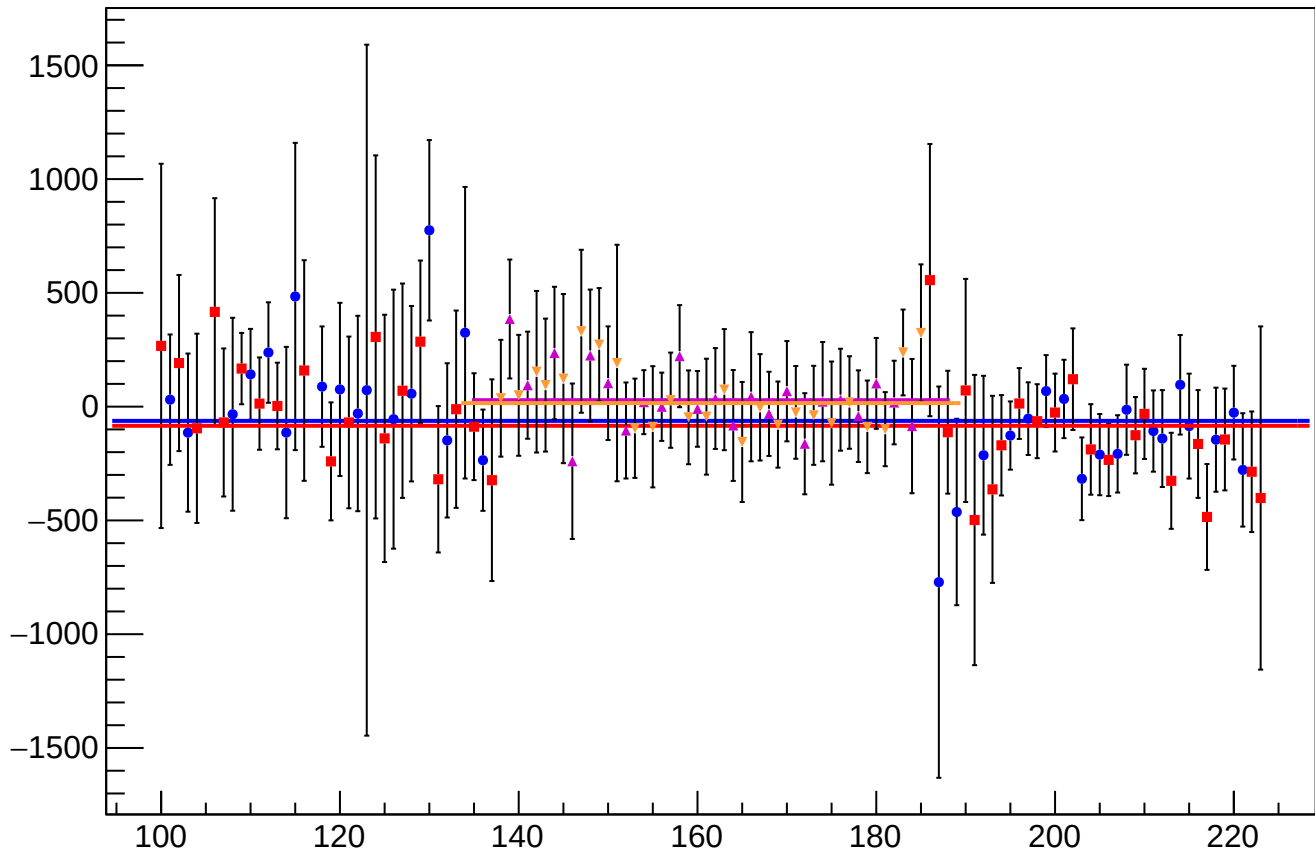
Right: 174.624 ± 0.020 $\chi^2/\text{NDF}: 5597266.7/73$

In: 176.650 ± 0.021 $\chi^2/\text{NDF}: 3948533.2/57$

Out: 184.543 ± 0.022 $\chi^2/\text{NDF}: 5333427.9/63$

All: 180.490 ± 0.015 $\chi^2/\text{NDF}: 9348719.6/123$

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -62.508 ± 40.752 $\chi^2/\text{NDF}: 17.9/34$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -84.085 ± 40.646 $\chi^2/\text{NDF}: 17.8/38$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

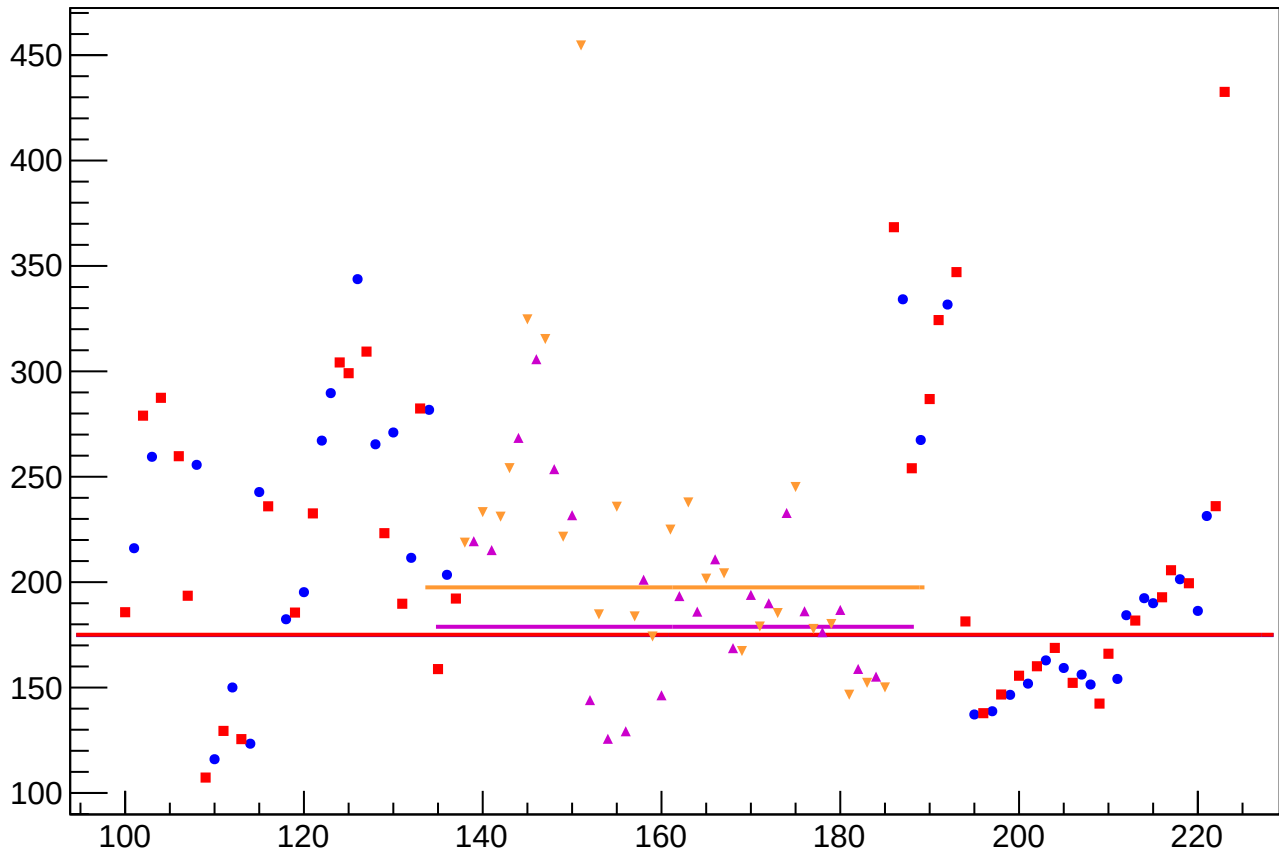
Right: -73.325 ± 28.778 $\chi^2/\text{NDF}: 35.8/73$

In: -21.344 ± 30.129 $\chi^2/\text{NDF}: 26.5/57$

Out: -42.215 ± 30.936 $\chi^2/\text{NDF}: 27.3/63$

All: -31.504 ± 21.584 $\chi^2/\text{NDF}: 54.0/121$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 174.885 $\pm$ 0.029 χ^2 /NDF: 2283703.7/34

Left Out: 197.527 $\pm$ 0.034 χ^2 /NDF:1784225.5/24

Right Out: 175.053 $\pm$ 0.029 χ^2 /NDF: 3230529.2/38

Left In: 178.836 $\pm$ 0.032 χ^2 /NDF:1622266.9/22

Left: 187.585 $\pm$ 0.023 χ^2 /NDF: 3569877.1/47

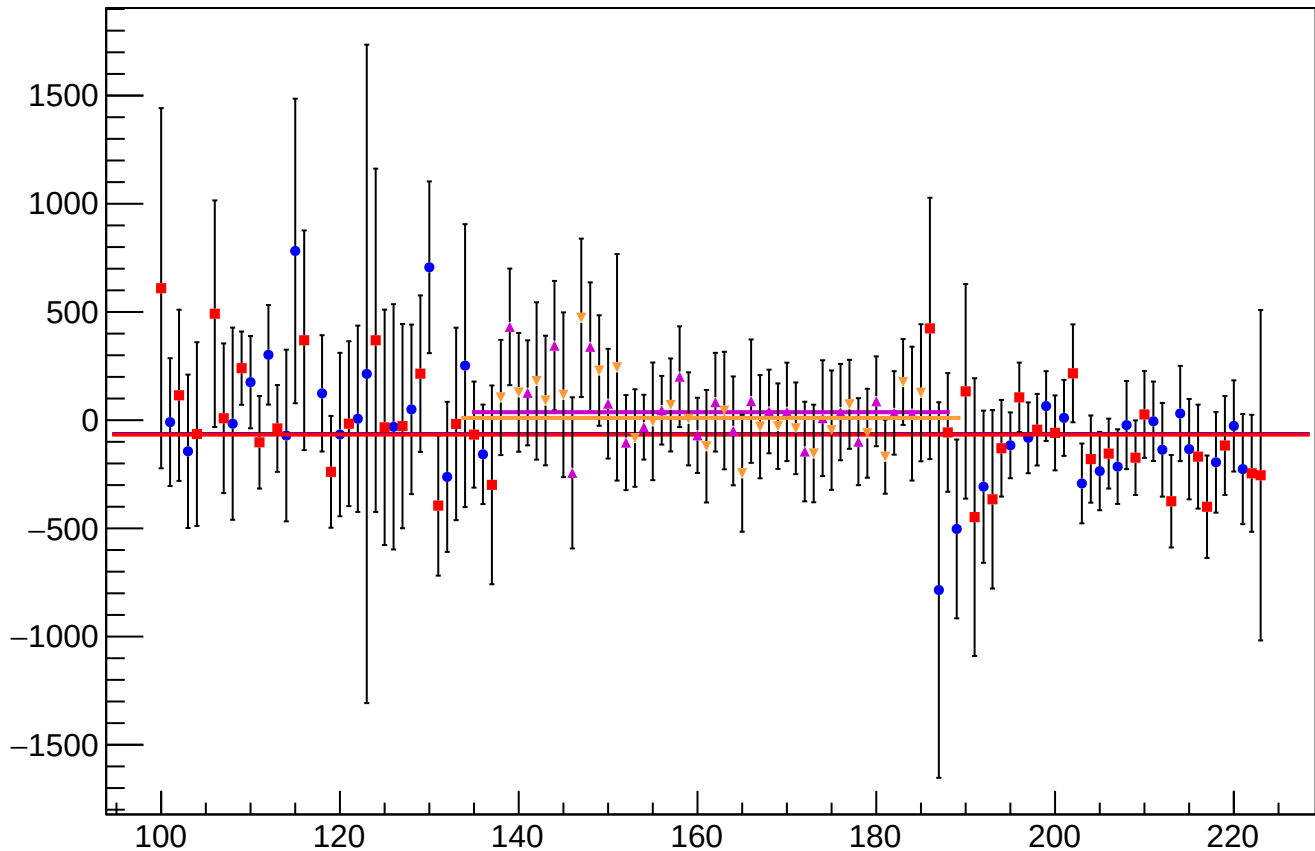
Right: 174.969 $\pm$ 0.020 χ^2 /NDF: 5514249.9/73

In: 176.676 $\pm$ 0.021 χ^2 /NDF:3914494.1/57

Out: 184.508 $\pm$ 0.022 χ^2 /NDF:5272012.0/63

All: 180.489 $\pm$ 0.015 χ^2 /NDF: 9252292.7/123

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -64.022 ± 41.617 $\chi^2/\text{NDF}: 18.2/34$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -66.530 ± 41.677 $\chi^2/\text{NDF}: 19.3/38$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

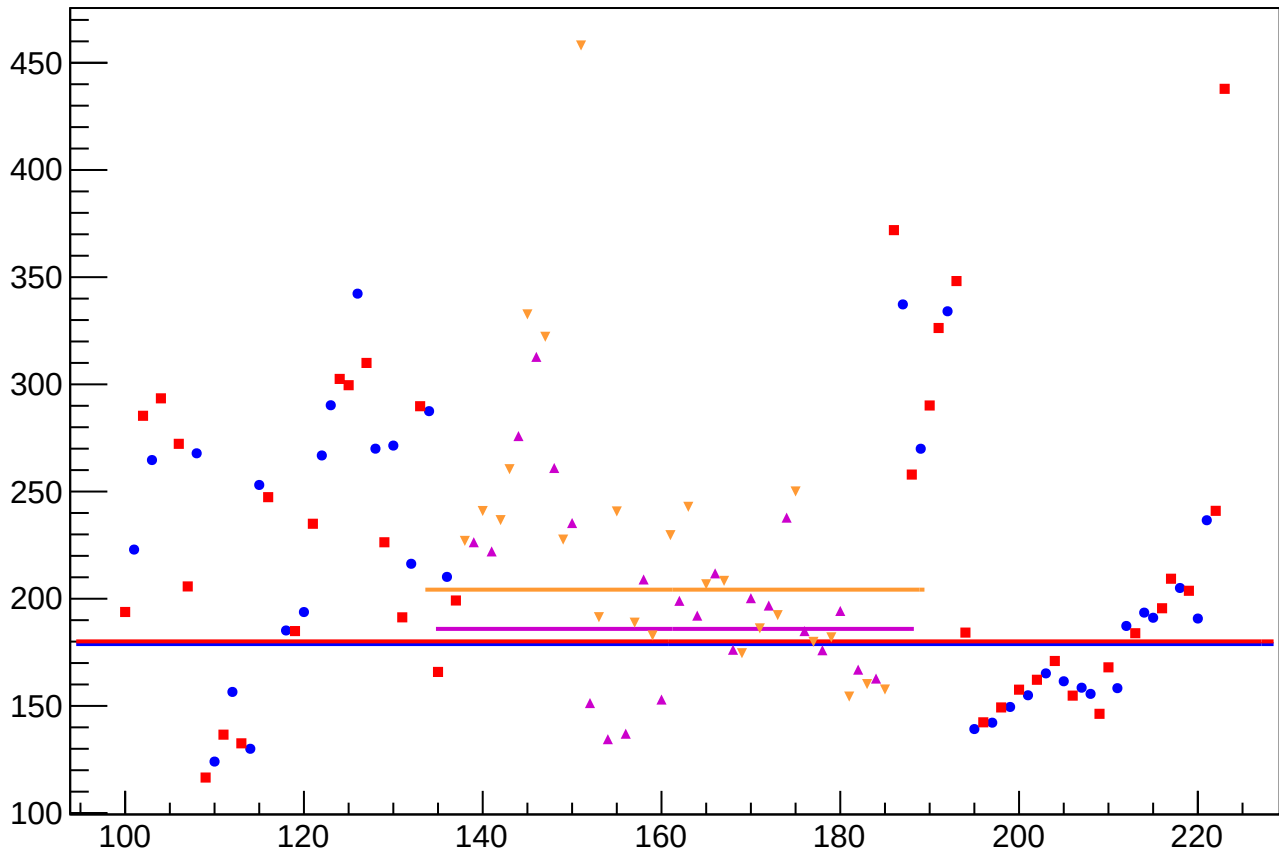
Right: -65.274 ± 29.449 $\chi^2/\text{NDF}: 37.5/73$

In: -18.939 ± 30.969 $\chi^2/\text{NDF}: 28.7/57$

Out: -34.332 ± 31.800 $\chi^2/\text{NDF}: 28.2/63$

All: -26.431 ± 22.186 $\chi^2/\text{NDF}: 57.0/121$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 178.848 $\pm$ 0.029 χ^2 /NDF: 2198143.4/34

Left Out: 204.236 $\pm$ 0.035 χ^2 /NDF:1675666.0/24

Right Out: 180.102 $\pm$ 0.029 χ^2 /NDF: 3026742.8/38

Left In: 185.931 $\pm$ 0.033 χ^2 /NDF:1460065.0/22

Left: 194.540 $\pm$ 0.024 χ^2 /NDF: 3282383.3/47

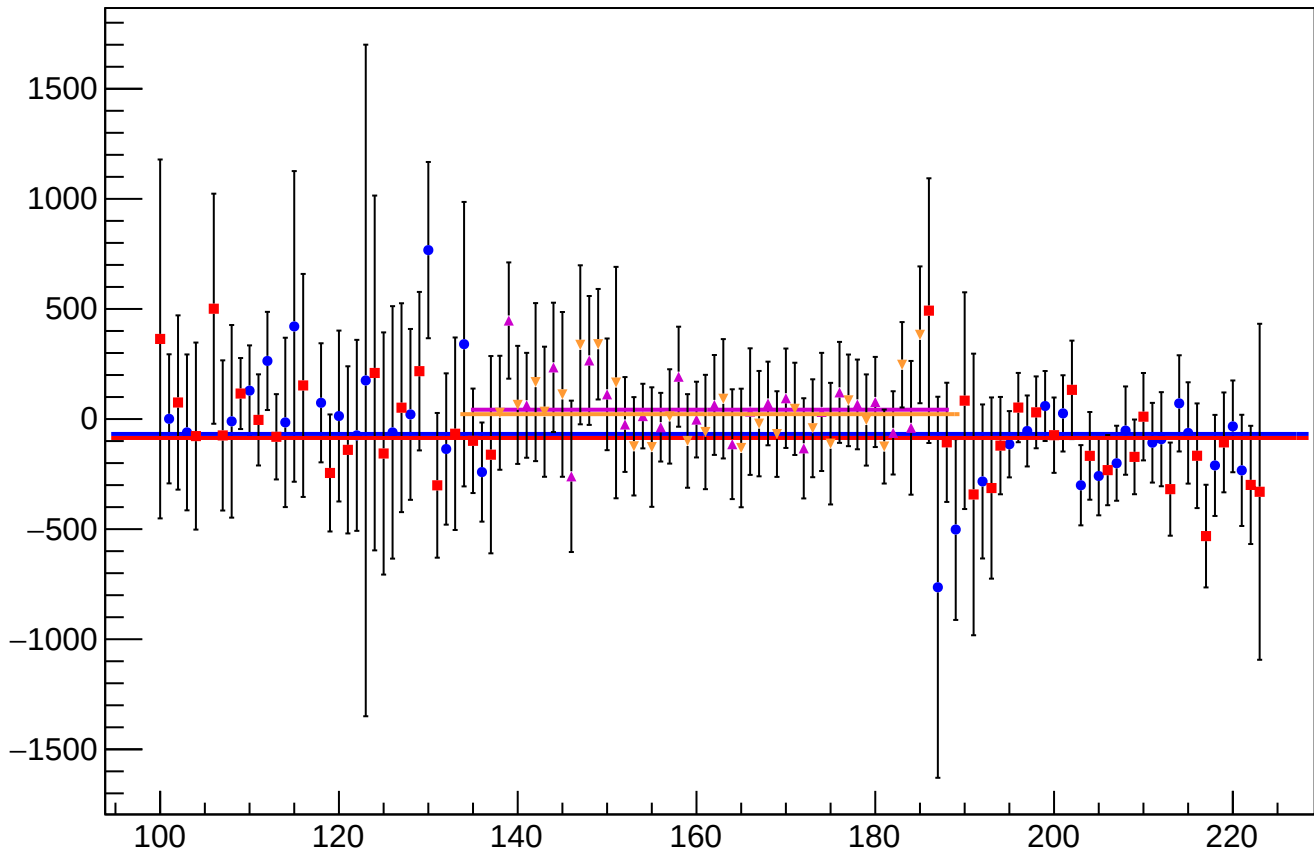
Right: 179.474 $\pm$ 0.021 χ^2 /NDF: 5225792.4/73

In: 182.009 $\pm$ 0.022 χ^2 /NDF:3684064.0/57

Out: 190.185 $\pm$ 0.022 χ^2 /NDF:4982617.4/63

All: 185.989 $\pm$ 0.016 χ^2 /NDF: 8734538.2/123

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -67.630 ± 41.111 $\chi^2/\text{NDF}: 17.4/34$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -85.965 ± 41.065 $\chi^2/\text{NDF}: 16.5/38$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

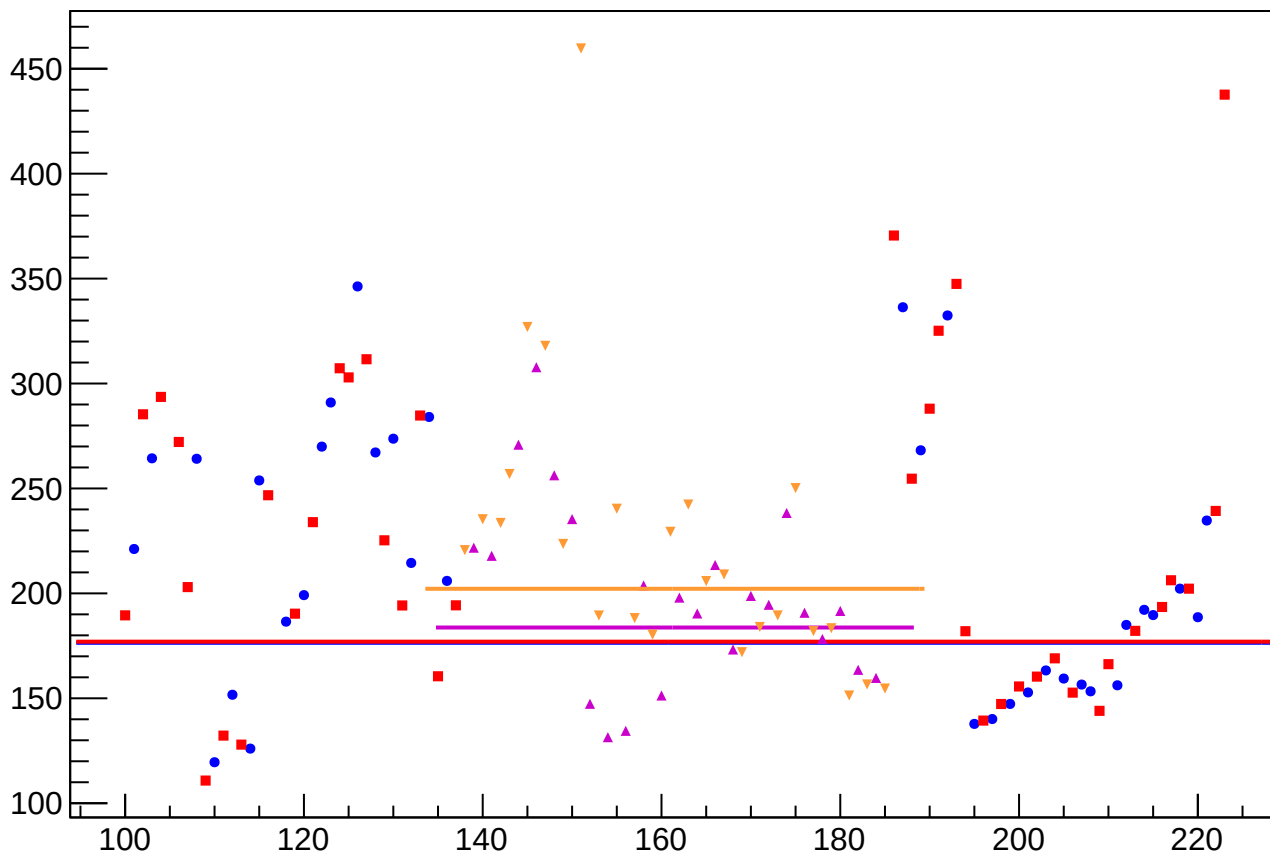
Right: -76.807 ± 29.054 $\chi^2/\text{NDF}: 33.9/73$

In: -18.585 ± 30.612 $\chi^2/\text{NDF}: 27.3/57$

Out: -41.062 ± 31.404 $\chi^2/\text{NDF}: 27.7/63$

All: -29.536 ± 21.921 $\chi^2/\text{NDF}: 55.3/121$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 176.450 $\pm$ 0.029 χ^2 /NDF: 2287392.2/34

Left Out: 202.186 $\pm$ 0.034 χ^2 /NDF: 1696571.9/24

Right Out: 176.987 $\pm$ 0.029 χ^2 /NDF: 3206756.8/38

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

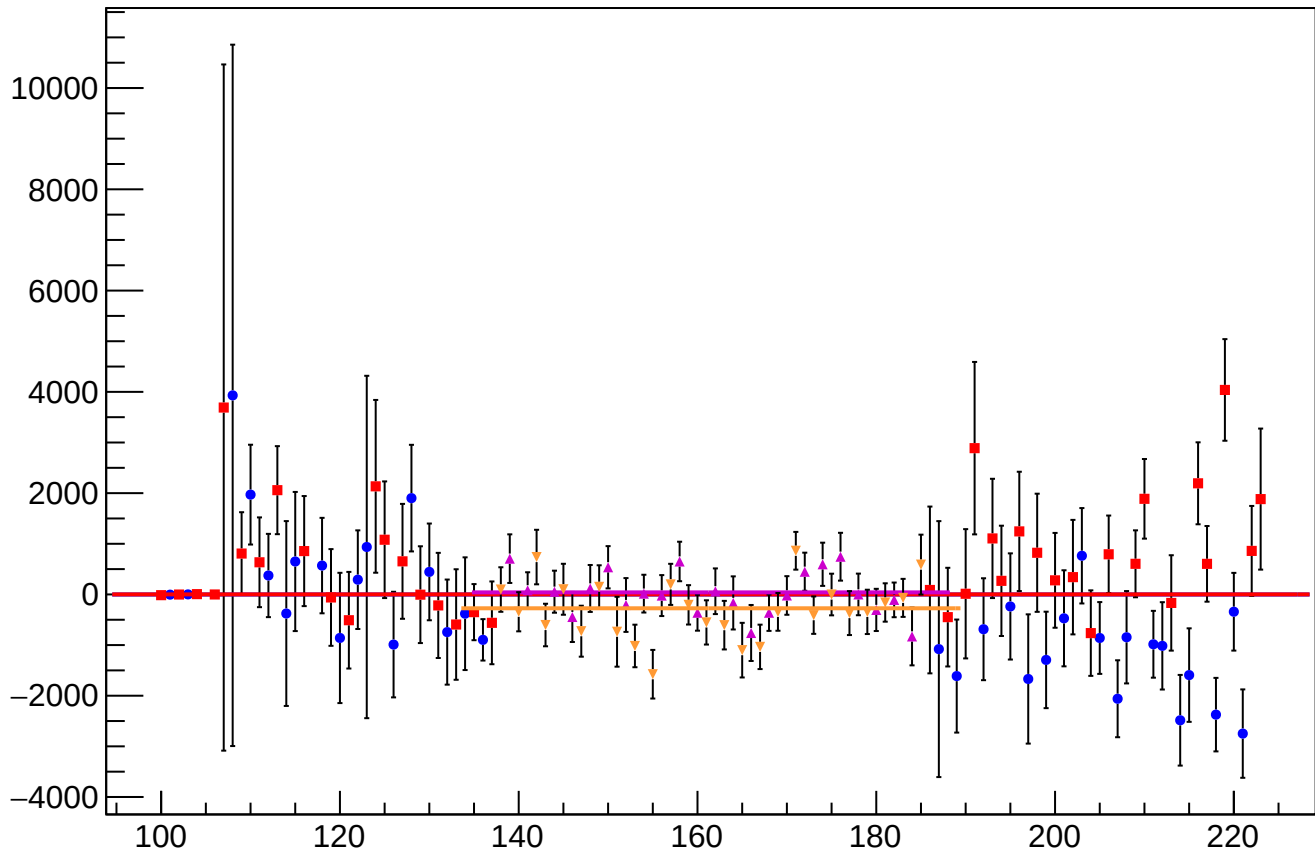
Right: 176.719 $\pm$ 0.021 χ^2 /NDF: 5494319.5/73

In: 179.695 $\pm$ 0.022 χ^2 /NDF: 3811278.8/57

Out: 187.449 $\pm$ 0.022 χ^2 /NDF: 5215993.6/63

All: 183.473 $\pm$ 0.016 χ^2 /NDF: 9089800.2/123

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.671 ± 2.251 χ^2/NDF : 68.8/34

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.814 ± 2.111 χ^2/NDF : 59.5/38

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

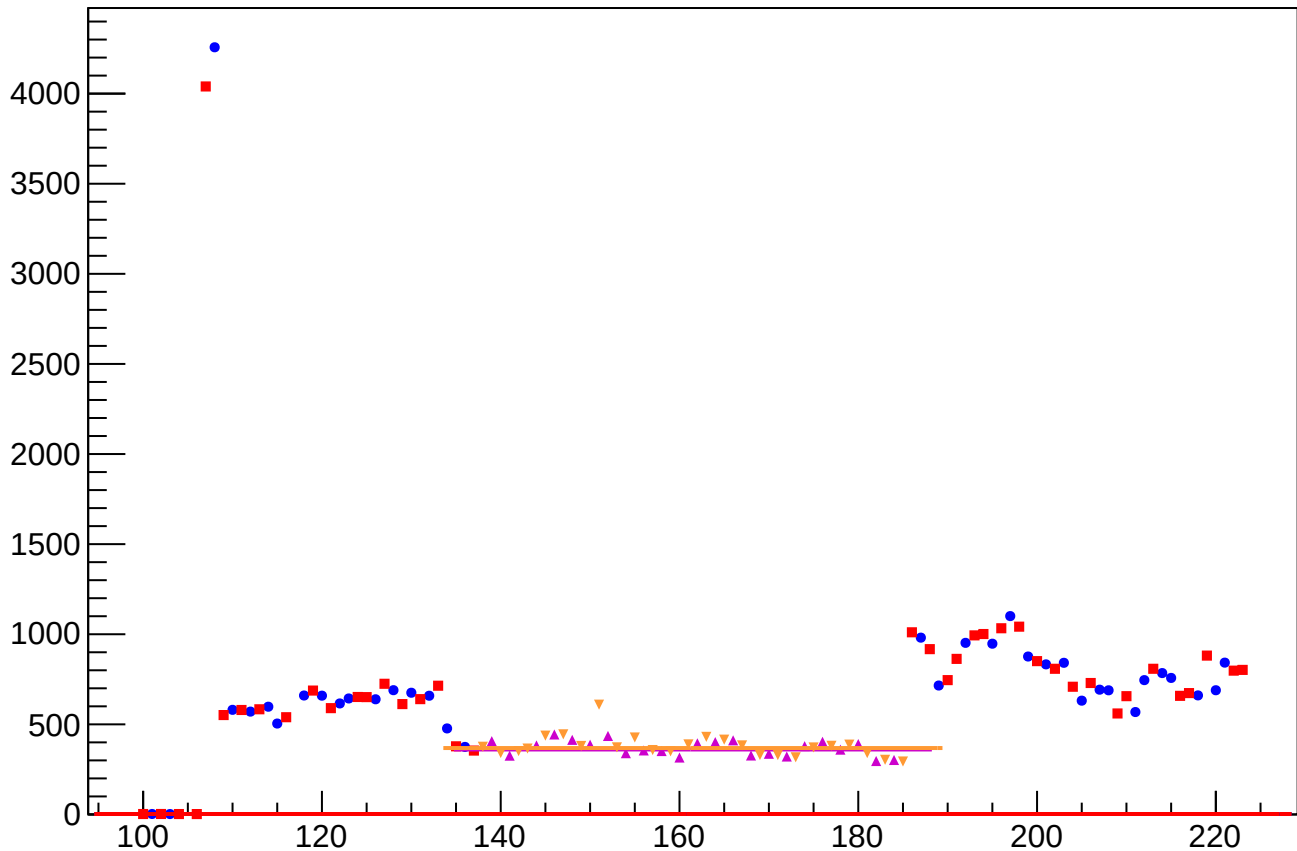
Right: -0.348 ± 1.540 χ^2/NDF : 129.0/73

In: -1.643 ± 2.251 χ^2/NDF : 89.2/57

Out: 0.652 ± 2.110 χ^2/NDF : 107.8/63

All: -0.422 ± 1.539 χ^2/NDF : 197.6/121

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.542 $\pm$ 0.002 χ^2 /NDF: 36750479.8/34

Left Out: 368.500 $\pm$ 0.061 χ^2 /NDF: 623011.6/24

Right Out: 2.511 $\pm$ 0.001 χ^2 /NDF: 37877907.2/38

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

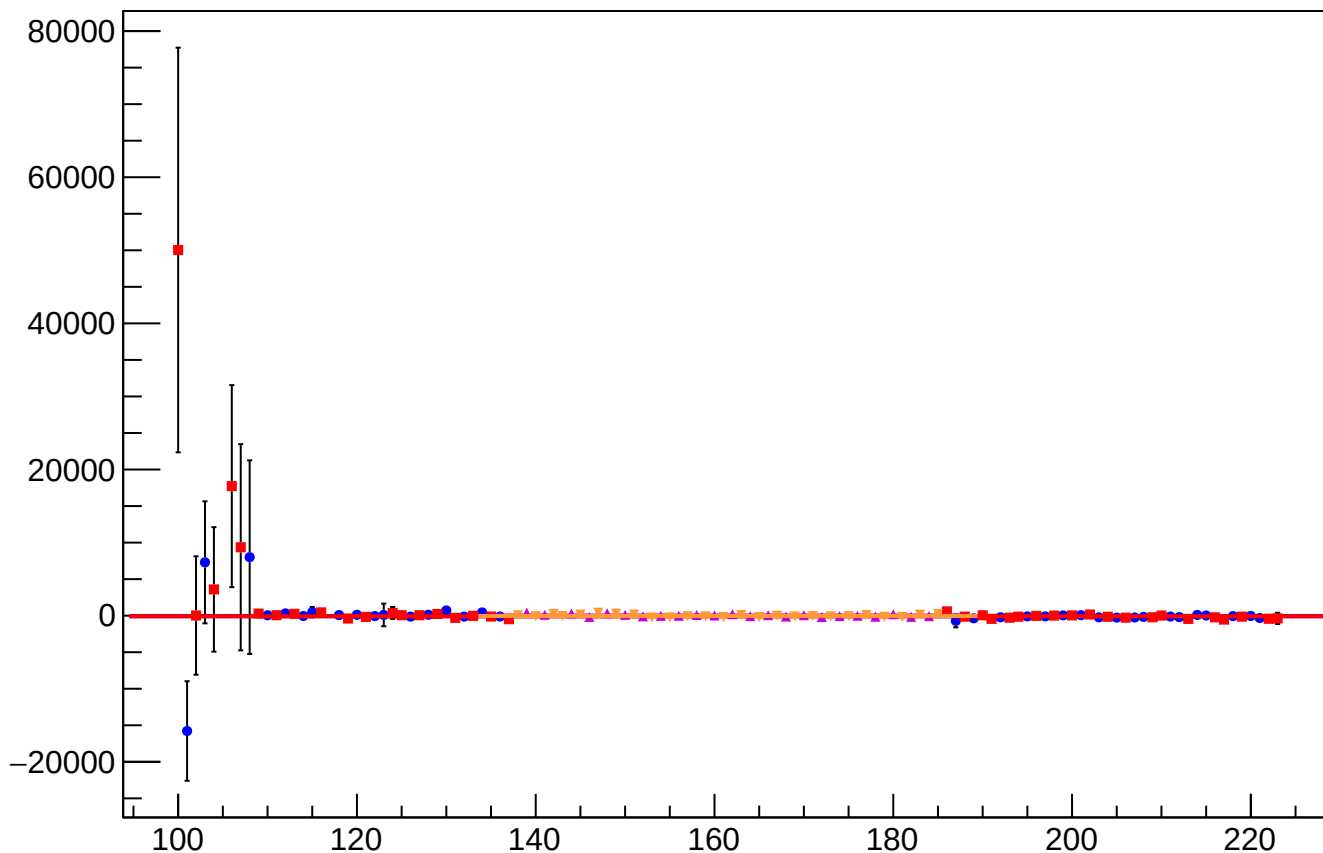
Right: 2.525 $\pm$ 0.001 χ^2 /NDF: 74628587.6/73

In: 2.779 $\pm$ 0.002 χ^2 /NDF: 70658380.6/57

Out: 2.727 $\pm$ 0.001 χ^2 /NDF: 73980395.2/63

All: 2.751 $\pm$ 0.001 χ^2 /NDF: 144639342.3/121

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -64.454+/-44.631 χ^2 /NDF: 22.4/34

Left Out: -39.036+/-49.576 χ^2 /NDF: 9.1/24

Right Out: -90.865+/-45.211 χ^2 /NDF: 29.9/38

Left In: 28.062+/-48.032 χ^2 /NDF: 9.6/22

Left: -4.426+/-34.497 χ^2 /NDF: 19.7/47

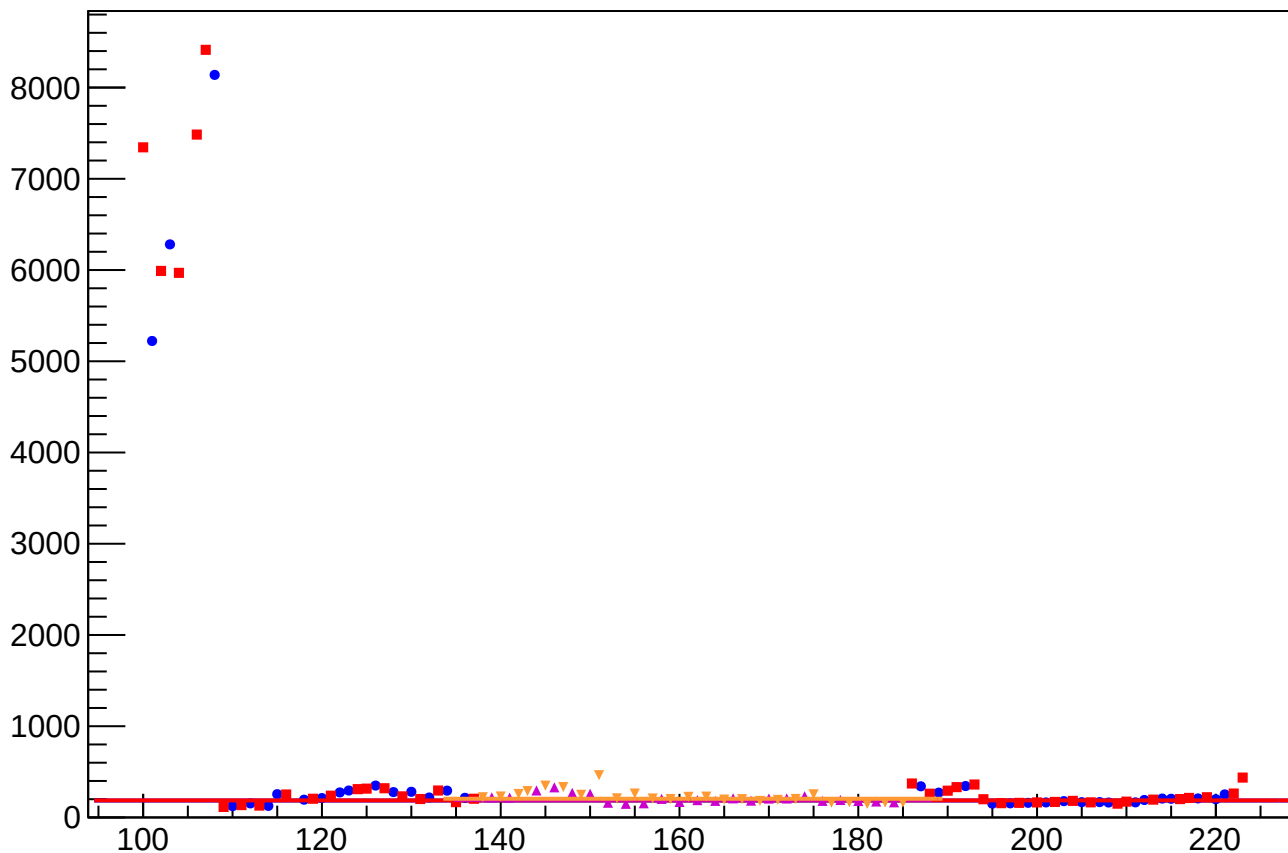
Right: -77.489+/-31.762 χ^2 /NDF: 52.5/73

In: -21.587+/-32.695 χ^2 /NDF: 34.0/57

Out: -67.332+/-33.406 χ^2 /NDF: 39.6/63

All: -43.968+/-23.366 χ^2 /NDF: 74.6/121

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 185.360 $\pm$ 0.032 χ^2 /NDF: 4742133.6/34

Left Out: 205.114 $\pm$ 0.035 χ^2 /NDF:1957484.4/24

Right Out: 187.059 $\pm$ 0.032 χ^2 /NDF: 5871563.7/38

Left In: 193.616 $\pm$ 0.034 χ^2 /NDF:1179471.1/22

Left: 199.183 $\pm$ 0.024 χ^2 /NDF: 3192443.5/47

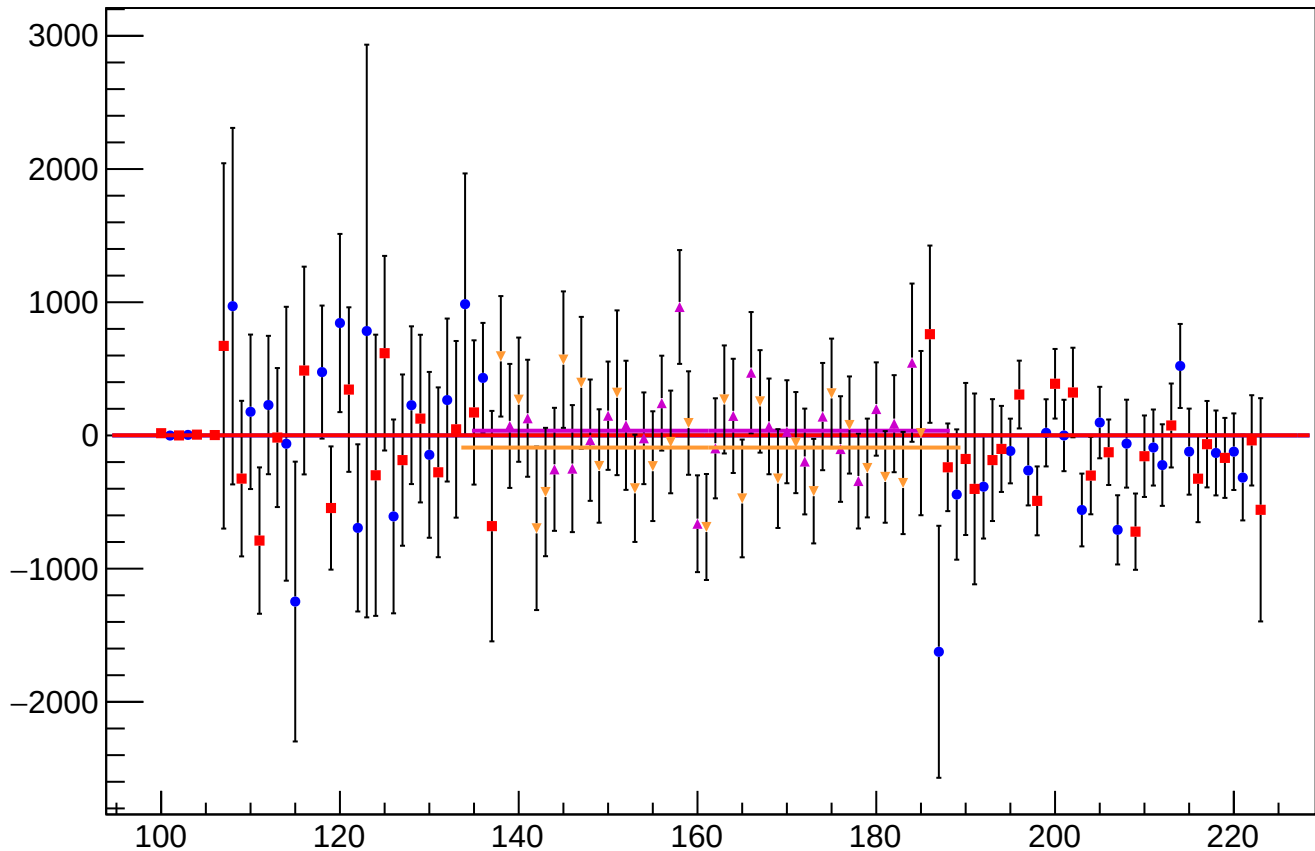
Right: 186.198 $\pm$ 0.022 χ^2 /NDF: 10615127.9/73

In: 189.185 $\pm$ 0.023 χ^2 /NDF:5953317.5/57

Out: 195.257 $\pm$ 0.024 χ^2 /NDF:7973868.2/63

All: 192.156 $\pm$ 0.017 χ^2 /NDF: 13960927.2/12

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.244 ± 1.736 χ^2/NDF : 32.7/34

Left Out: -90.945 ± 84.079 χ^2/NDF : 16.4/24

Right Out: 1.270 ± 1.622 χ^2/NDF : 29.8/38

Left In: 35.488 ± 84.382 χ^2/NDF : 13.4/22

Left: -27.956 ± 59.560 χ^2/NDF : 31.0/47

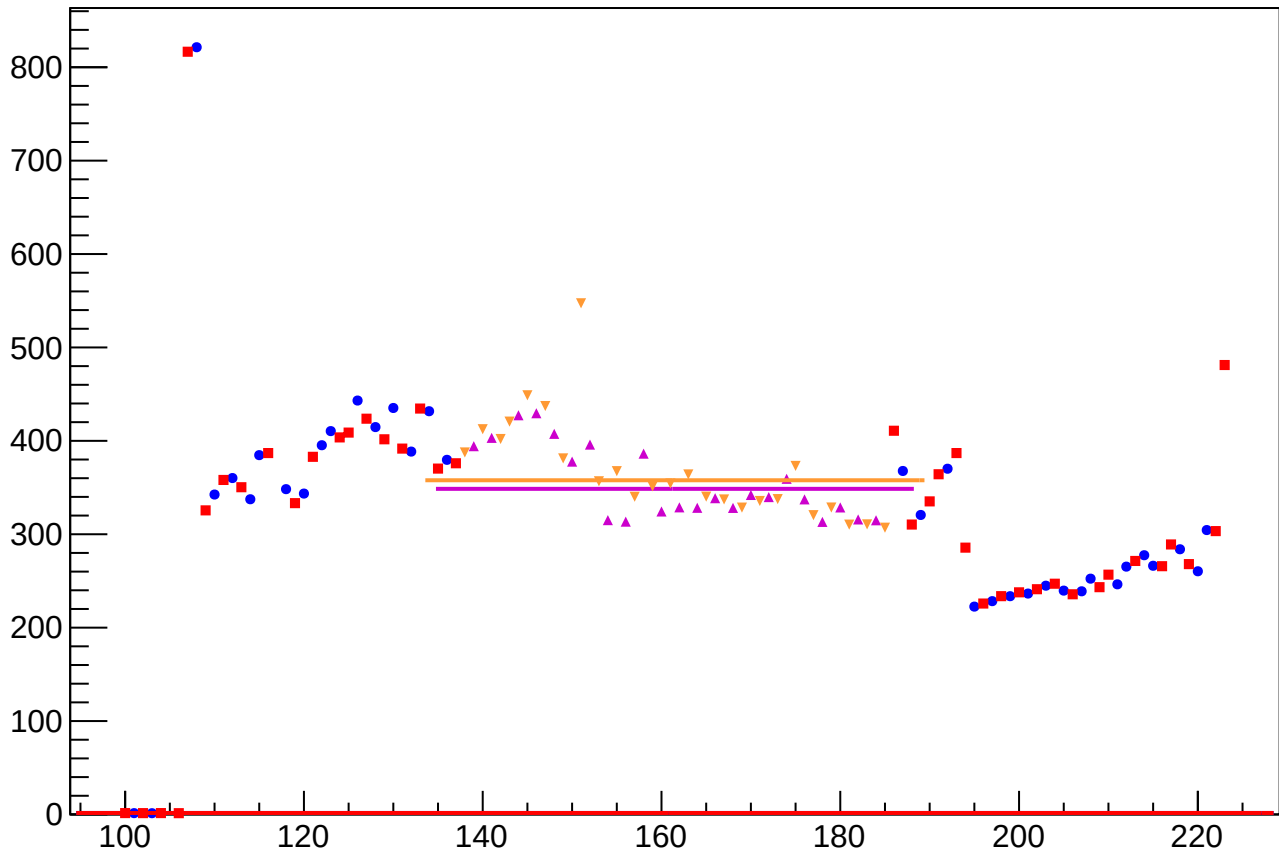
Right: 0.565 ± 1.185 χ^2/NDF : 62.9/73

In: -0.228 ± 1.736 χ^2/NDF : 46.3/57

Out: 1.236 ± 1.622 χ^2/NDF : 47.5/63

All: 0.553 ± 1.185 χ^2/NDF : 94.2/121

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.604 $\pm$ 0.001 χ^2 /NDF: 36887306.5/34

Left Out: 357.804 $\pm$ 0.059 χ^2 /NDF: 547036.5/24

Right Out: 1.580 $\pm$ 0.001 χ^2 /NDF: 37555575.6/38

Left In: 348.611 $\pm$ 0.060 χ^2 /NDF: 362511.2/22

Left: 353.224 $\pm$ 0.042 χ^2 /NDF: 921460.0/47

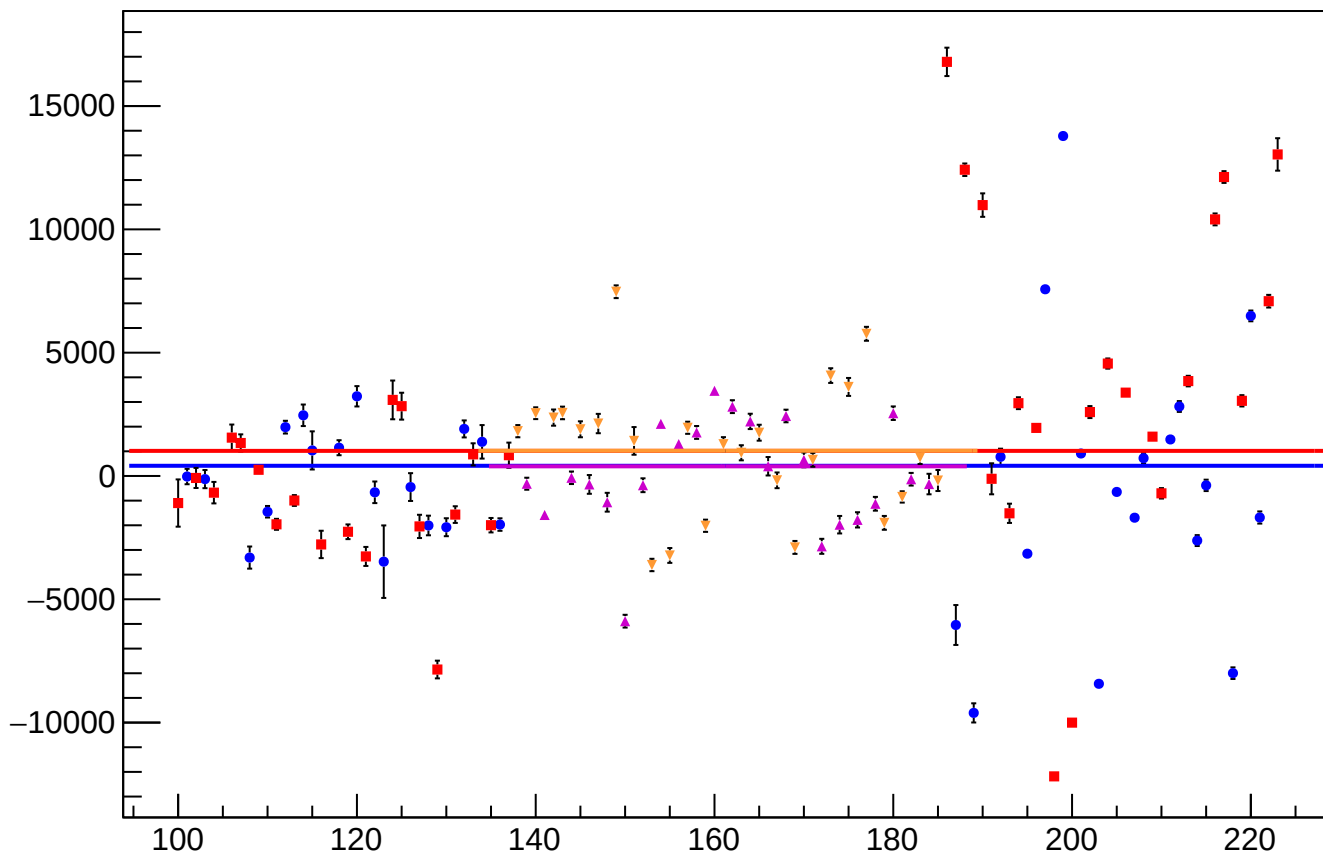
Right: 1.592 $\pm$ 0.001 χ^2 /NDF: 74443081.8/73

In: 1.751 $\pm$ 0.001 χ^2 /NDF: 71057769.1/57

Out: 1.713 $\pm$ 0.001 χ^2 /NDF: 73990125.7/63

All: 1.731 $\pm$ 0.001 χ^2 /NDF: 145048407.1/121

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 413.187+/-44.070 χ^2/NDF : 13485.5/34

Left Out: 1023.439+/-57.338 χ^2/NDF : 2309.4/24

Right Out: 1017.528+/-43.812 χ^2/NDF : 18922.0/38

Left In: 390.237+/-54.931 χ^2/NDF : 1584.9/22

Left: 693.270+/-39.666 χ^2/NDF : 3957.9/47

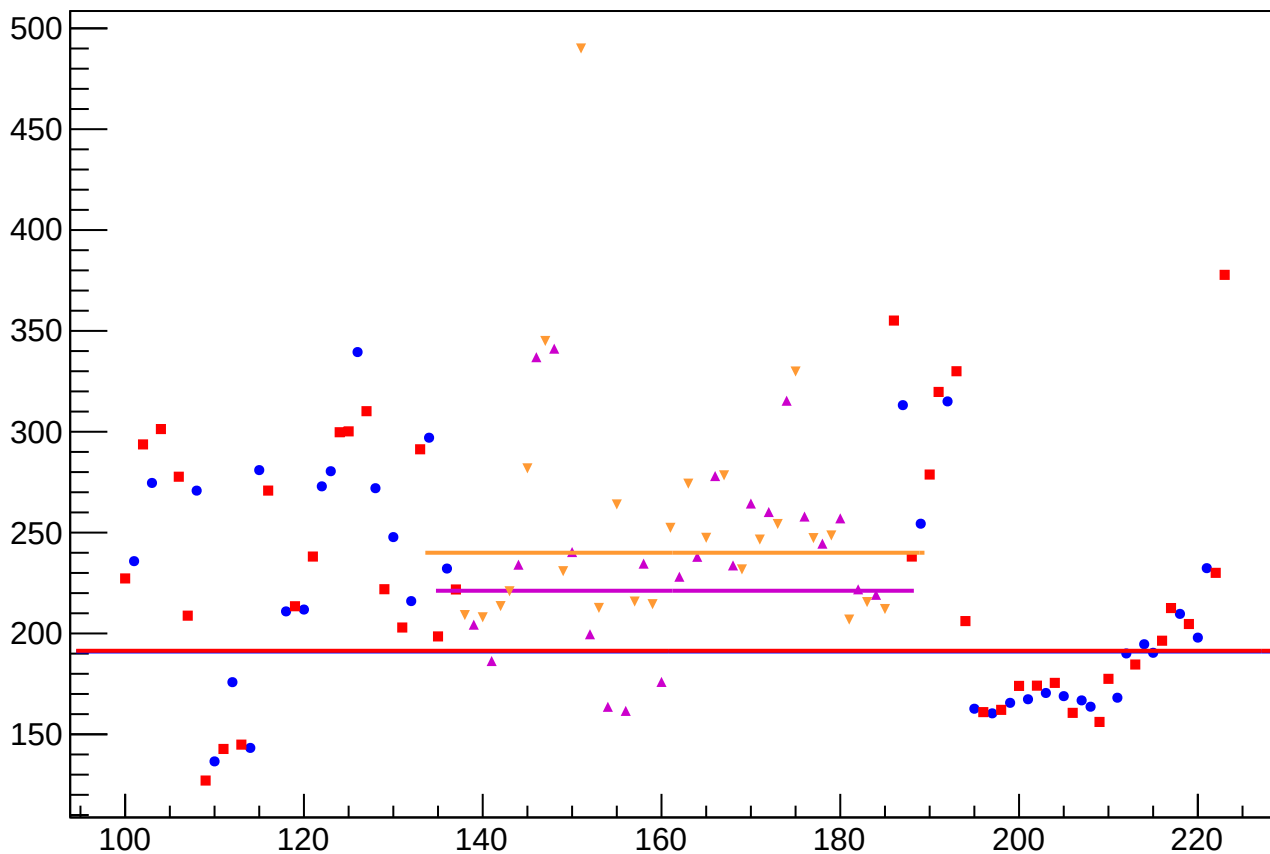
Right: 717.132+/-31.071 χ^2/NDF : 32502.1/73

In: 404.200+/-34.375 χ^2/NDF : 15070.6/57

Out: 1019.707+/-34.813 χ^2/NDF : 21231.3/63

All: 708.058+/-24.460 χ^2/NDF : 36460.2/121

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 191.058+/-0.031 χ^2/NDF : 1620902.9/34

Left Out: 240.019+/-0.041 χ^2/NDF :1002427.9/24

Right Out: 191.411+/-0.031 χ^2/NDF : 2363865.8/38

Left In: 221.173+/-0.039 χ^2/NDF :1342517.8/22

Left: 230.192+/-0.028 χ^2/NDF : 2457612.6/47

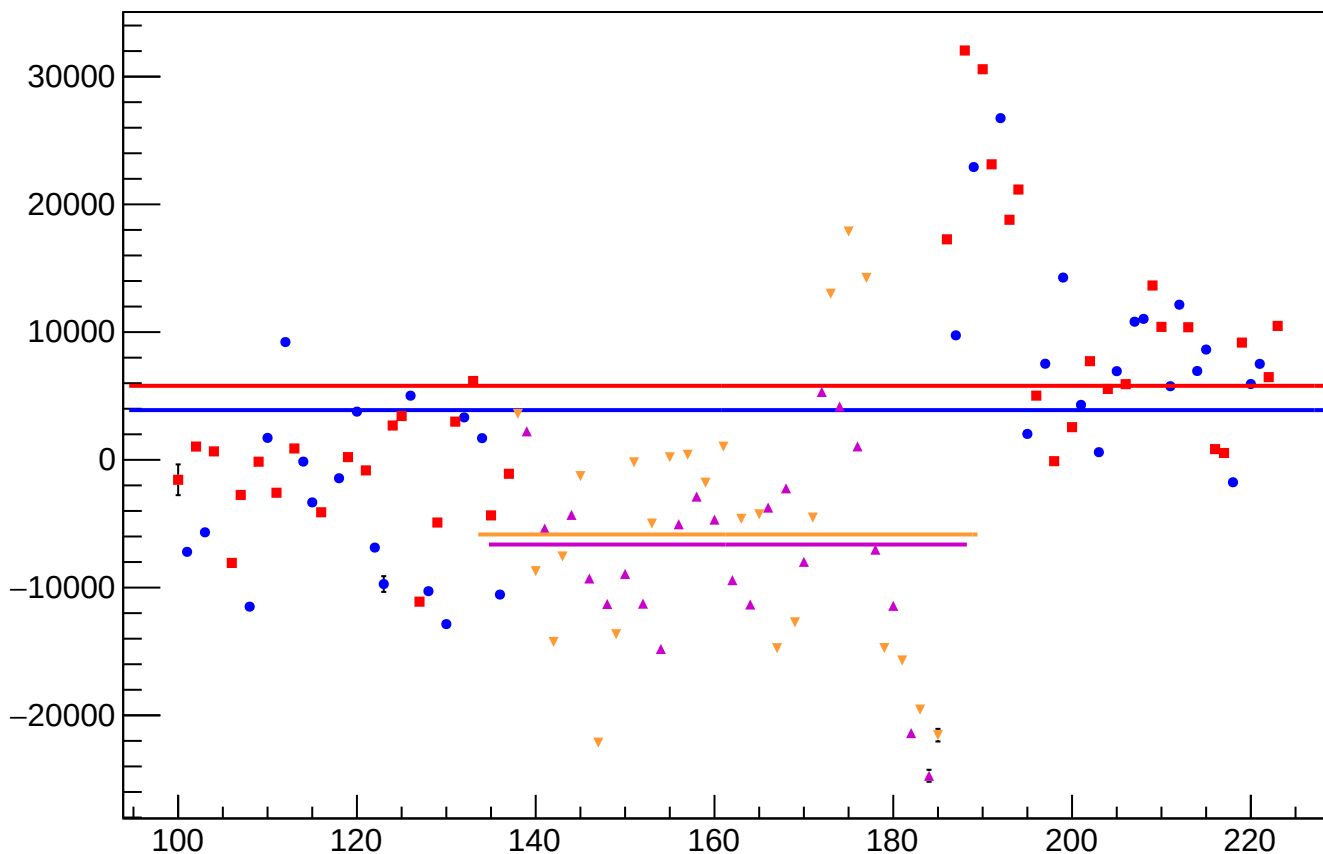
Right: 191.236+/-0.022 χ^2/NDF : 3984832.9/73

In: 202.851+/-0.024 χ^2/NDF :3329122.5/57

Out: 209.329+/-0.025 χ^2/NDF :4273804.9/63

All: 206.049+/-0.017 χ^2/NDF : 7637992.2/123

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3893.028+/-32.471 χ^2/NDF : 85526.5/34

Left Out: -5841.615+/-35.848 χ^2/NDF : 63397.3/24

Right Out: 5795.020+/-31.257 χ^2/NDF : 106153.8/38

Left In: -6628.388+/-37.160 χ^2/NDF : 21738.0/22

Left: -6220.862+/-25.800 χ^2/NDF : 85367.5/47

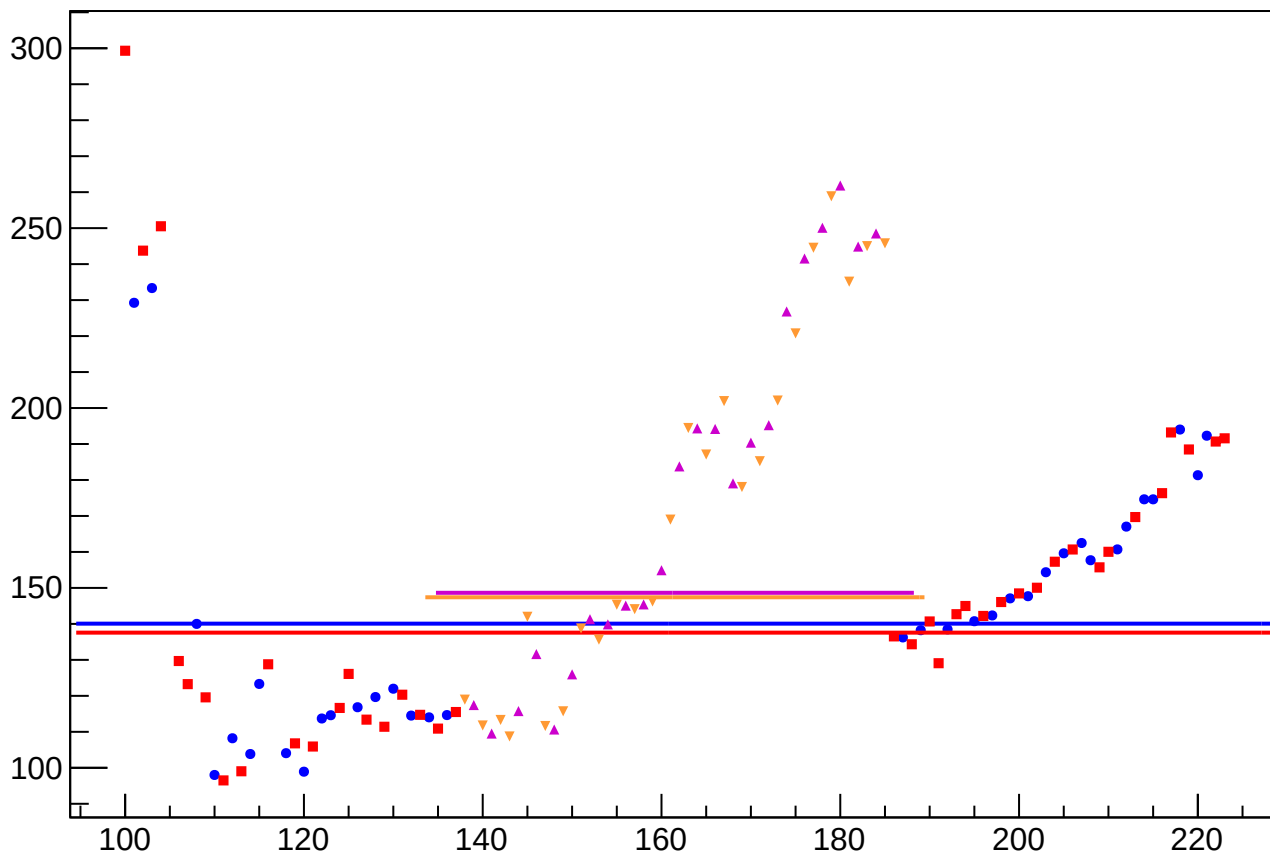
Right: 4880.242+/-22.519 χ^2/NDF : 193461.2/73

In: -662.348+/-24.451 χ^2/NDF : 152722.1/57

Out: 769.048+/-23.559 χ^2/NDF : 229413.1/63

All: 79.945+/-16.965 χ^2/NDF : 383912.4/121

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 140.067+/-0.023 χ^2/NDF : 1653737.6/34

Left Out: 147.396+/-0.025 χ^2/NDF : 2517097.1/24

Right Out: 137.570+/-0.022 χ^2/NDF : 1767673.7/38

Left In: 148.642+/-0.026 χ^2/NDF : 2415531.9/22

Left: 147.997+/-0.018 χ^2/NDF : 4933793.6/47

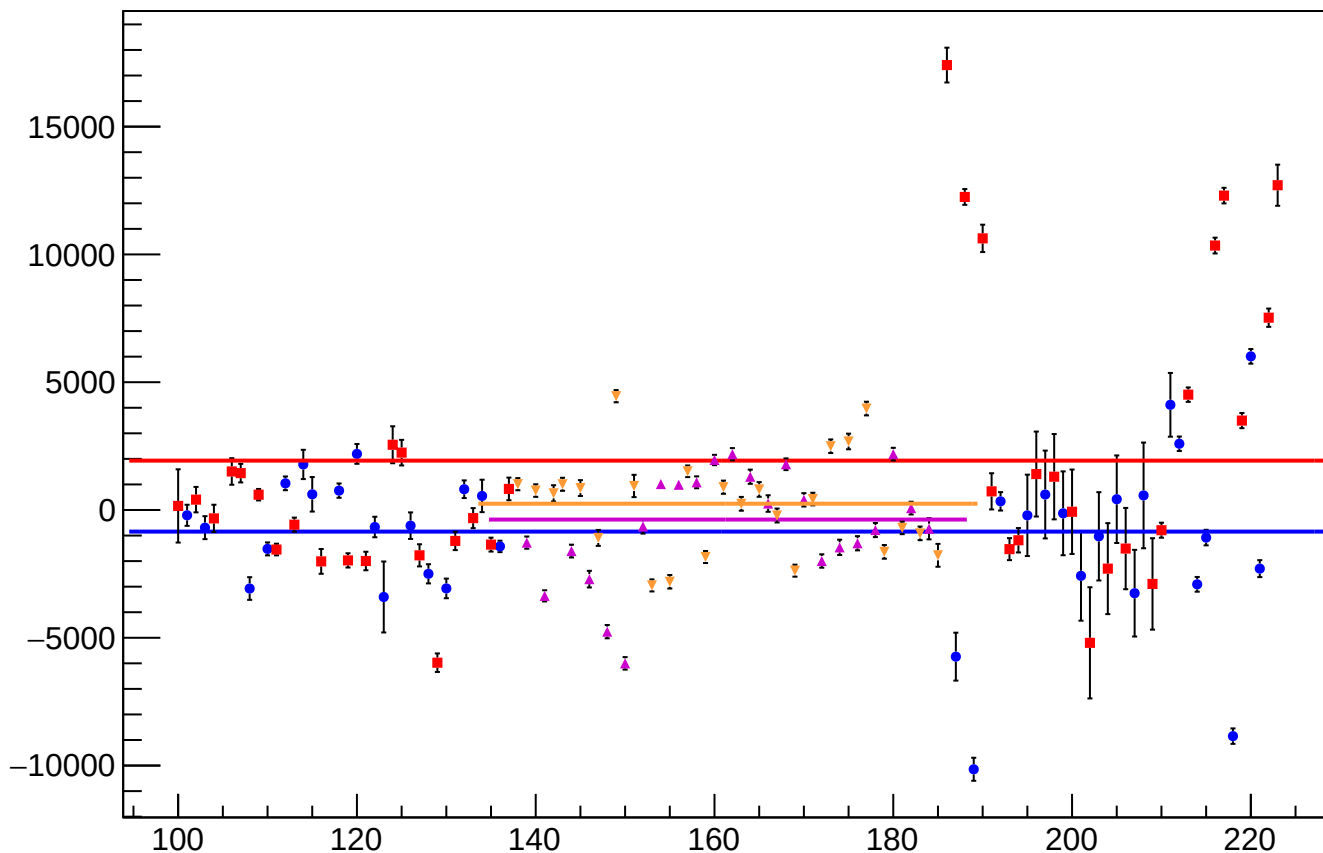
Right: 138.771+/-0.016 χ^2/NDF : 3427552.8/73

In: 143.780+/-0.017 χ^2/NDF : 4129657.1/57

Out: 141.814+/-0.017 χ^2/NDF : 4370145.6/63

All: 142.760+/-0.012 χ^2/NDF : 8506507.8/123

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -845.429 ± 69.050 $\chi^2/\text{NDF}: 2272.7/34$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 1931.797 ± 64.013 $\chi^2/\text{NDF}: 6130.1/38$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

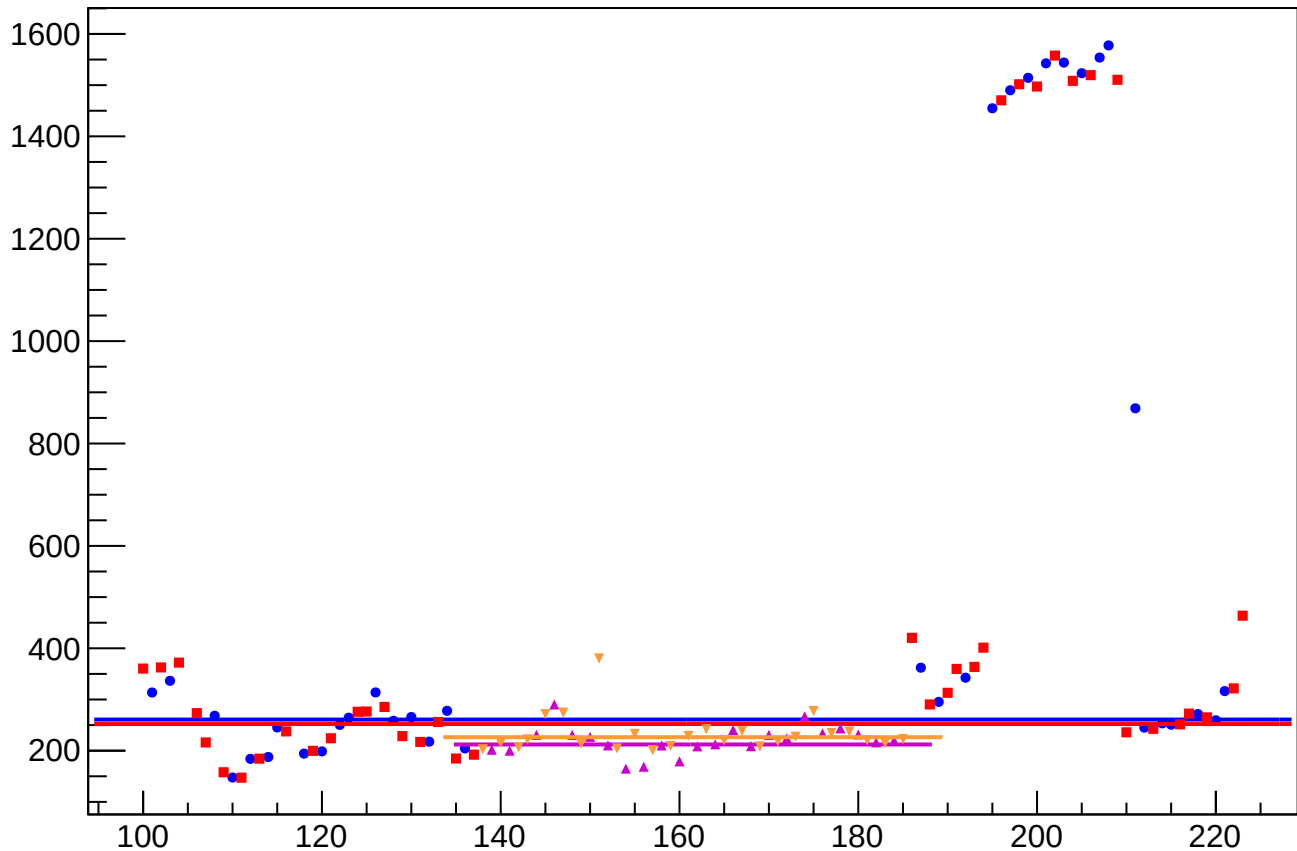
Right: 648.154 ± 46.944 $\chi^2/\text{NDF}: 9272.8/73$

In: -544.452 ± 41.484 $\chi^2/\text{NDF}: 4100.7/57$

Out: 939.223 ± 41.047 $\chi^2/\text{NDF}: 7893.2/63$

All: 205.235 ± 29.178 $\chi^2/\text{NDF}: 12640.3/121$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 260.777 ± 0.049 $\chi^2/\text{NDF}: 10260880.5/34$

Left Out: 226.376 ± 0.038 $\chi^2/\text{NDF}: 521770.1/24$

Right Out: 252.021 ± 0.045 $\chi^2/\text{NDF}: 9514380.8/38$

Left In: 212.145 ± 0.037 $\chi^2/\text{NDF}: 591698.6/22$

Left: 219.044 ± 0.026 $\chi^2/\text{NDF}: 1186390.8/47$

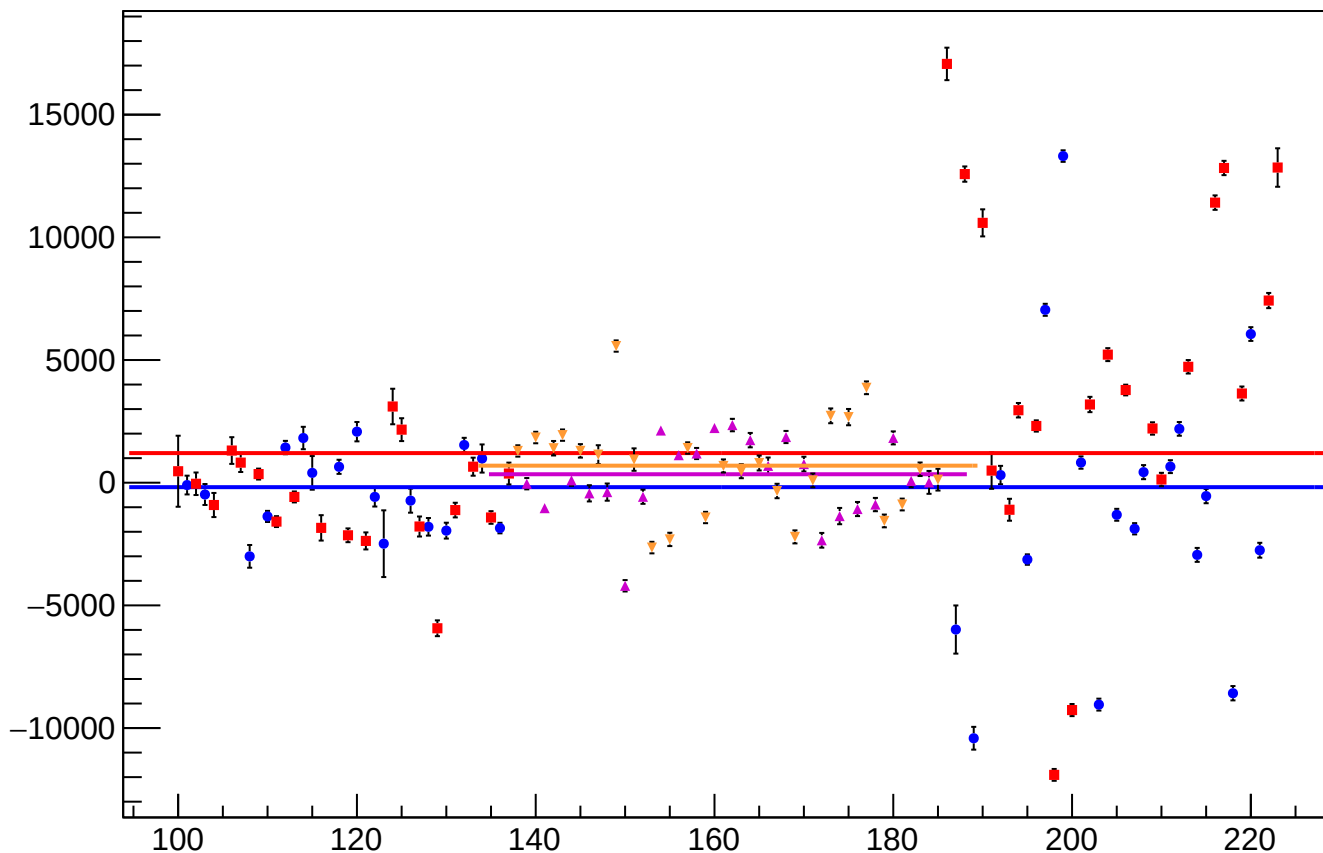
Right: 256.068 ± 0.033 $\chi^2/\text{NDF}: 19792554.4/73$

In: 229.698 ± 0.029 $\chi^2/\text{NDF}: 11486579.0/57$

Out: 236.920 ± 0.029 $\chi^2/\text{NDF}: 10225170.1/63$

All: 233.347 ± 0.021 $\chi^2/\text{NDF}: 21742383.0/12$

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -181.909 ± 51.490 $\chi^2/\text{NDF}: 8184.5/34$

Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$

Right Out: 1206.552 ± 50.776 $\chi^2/\text{NDF}: 12388.9/38$

Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$

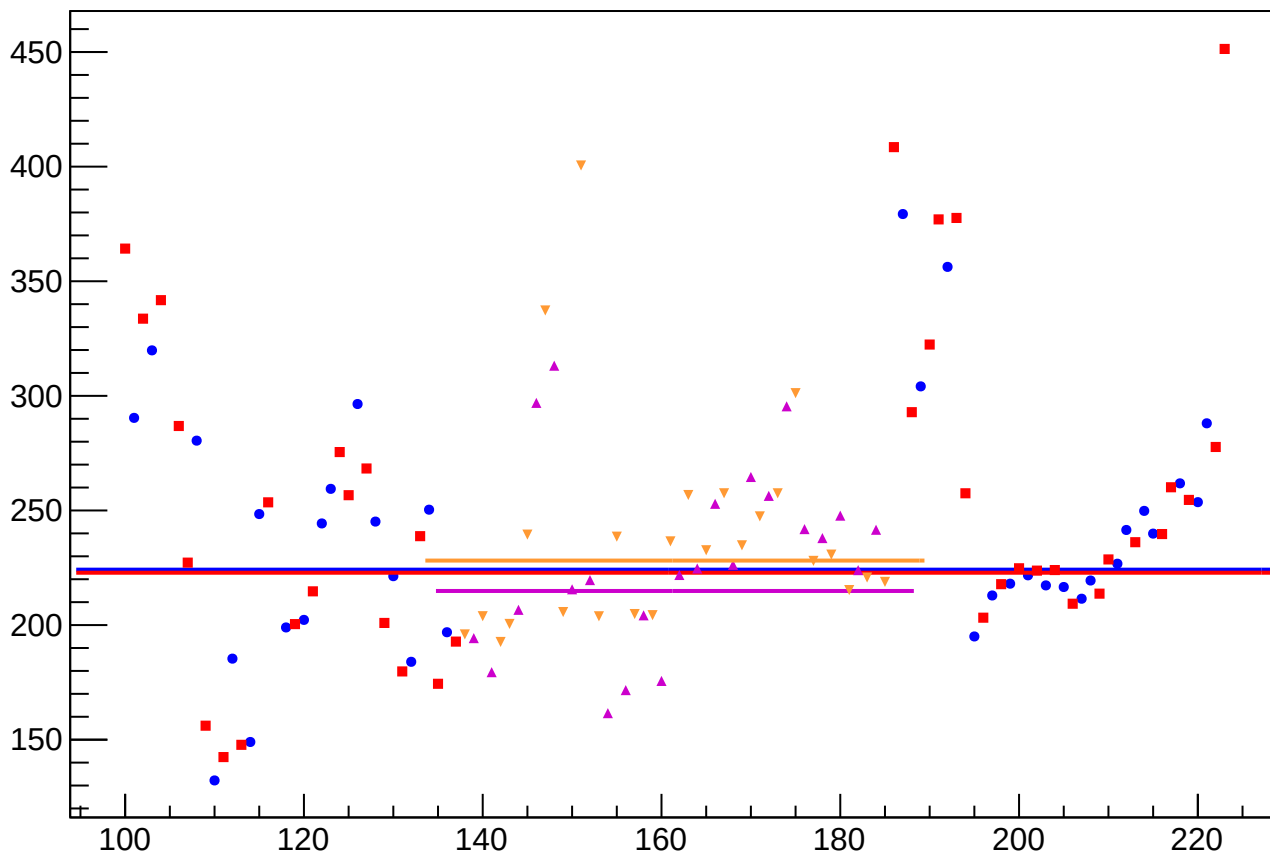
Right: 522.017 ± 36.154 $\chi^2/\text{NDF}: 20942.1/73$

In: 73.958 ± 36.916 $\chi^2/\text{NDF}: 9220.4/57$

Out: 967.346 ± 37.070 $\chi^2/\text{NDF}: 13858.6/63$

All: 518.786 ± 26.158 $\chi^2/\text{NDF}: 23370.5/121$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 224.179 ± 0.036 $\chi^2/\text{NDF}: 1354592.2/34$

Left Out: 228.144 ± 0.038 $\chi^2/\text{NDF}: 828399.3/24$

Right Out: 222.840 ± 0.036 $\chi^2/\text{NDF}: 2155190.9/38$

Left In: 214.878 ± 0.037 $\chi^2/\text{NDF}: 1037509.6/22$

Left: 221.351 ± 0.027 $\chi^2/\text{NDF}: 1927151.4/47$

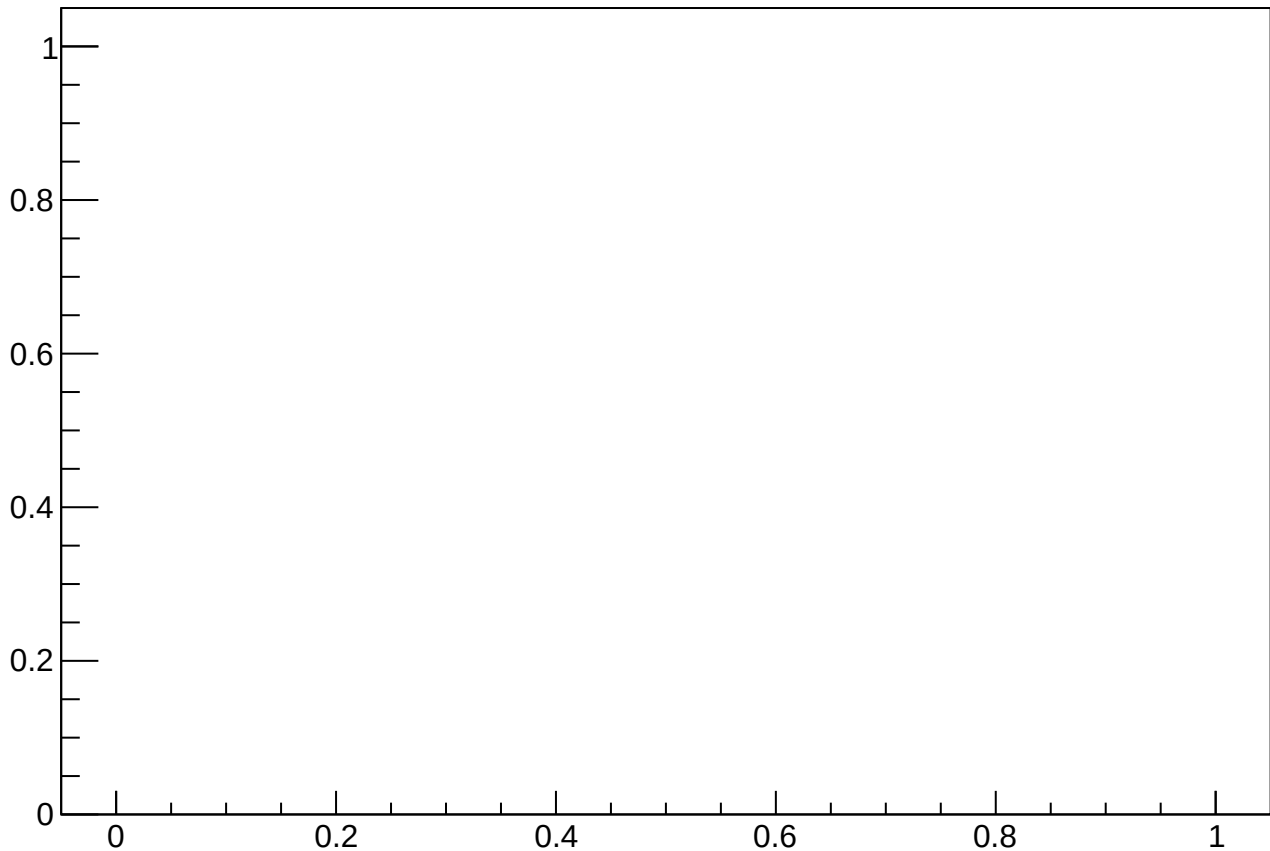
Right: 223.500 ± 0.026 $\chi^2/\text{NDF}: 3510468.4/73$

In: 219.659 ± 0.026 $\chi^2/\text{NDF}: 2423815.7/57$

Out: 225.317 ± 0.026 $\chi^2/\text{NDF}: 2993778.7/63$

All: 222.476 ± 0.018 $\chi^2/\text{NDF}: 5440988.1/123$

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

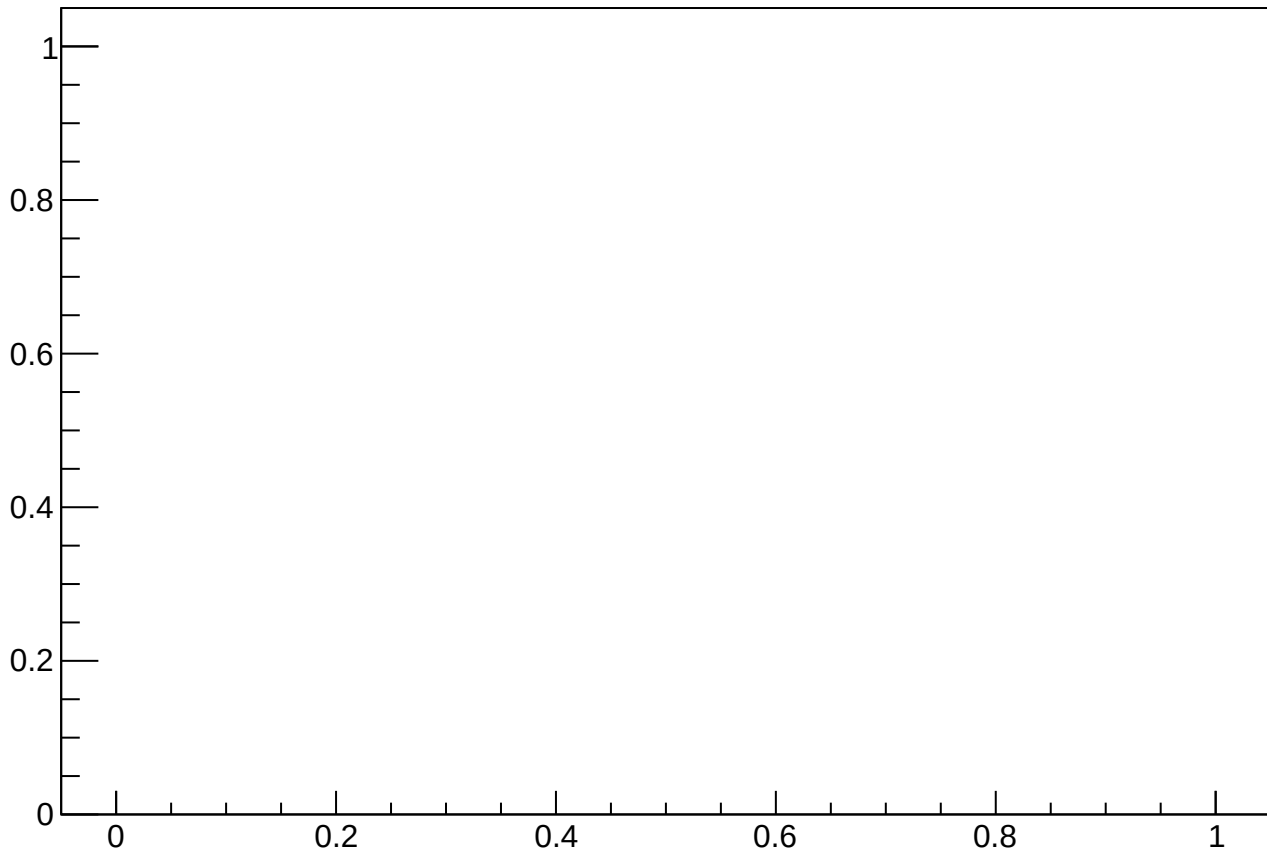
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_an_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

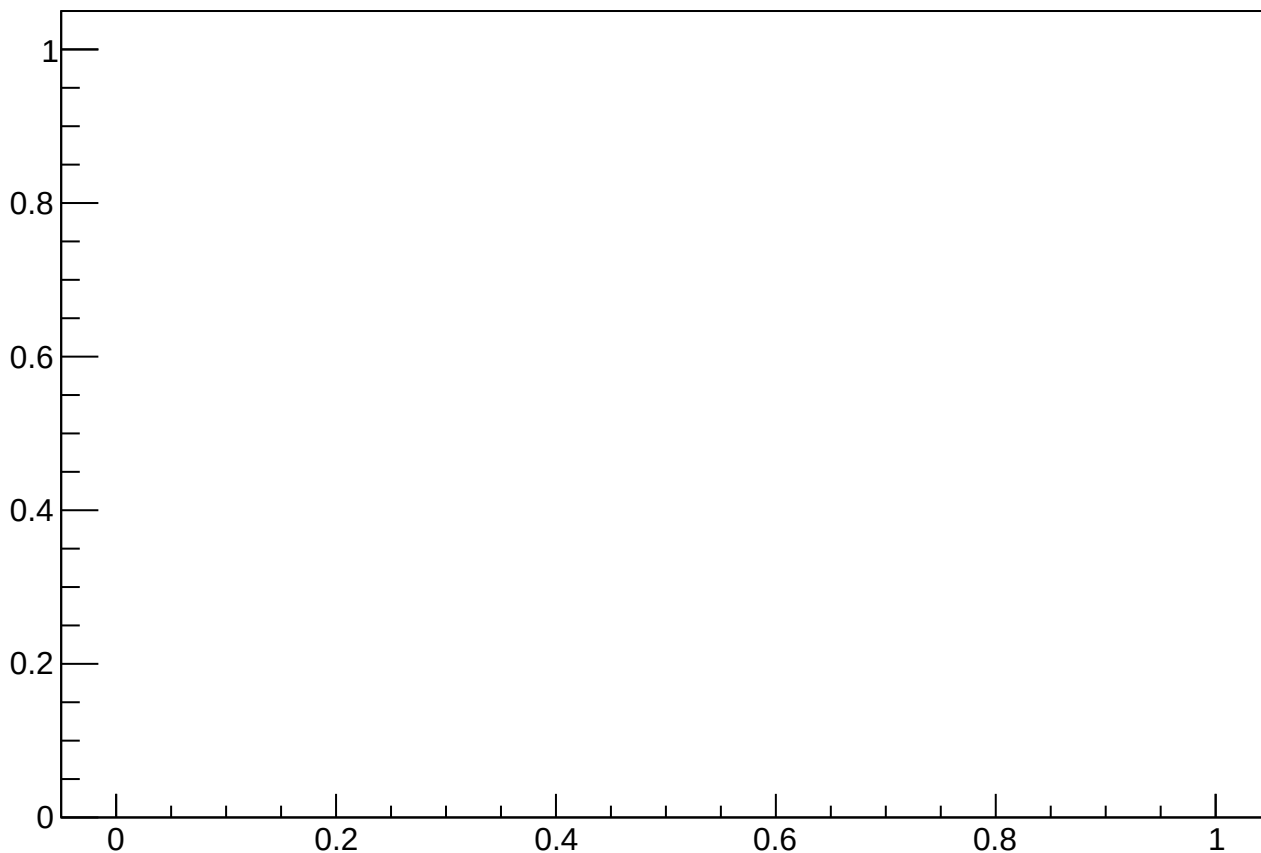
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

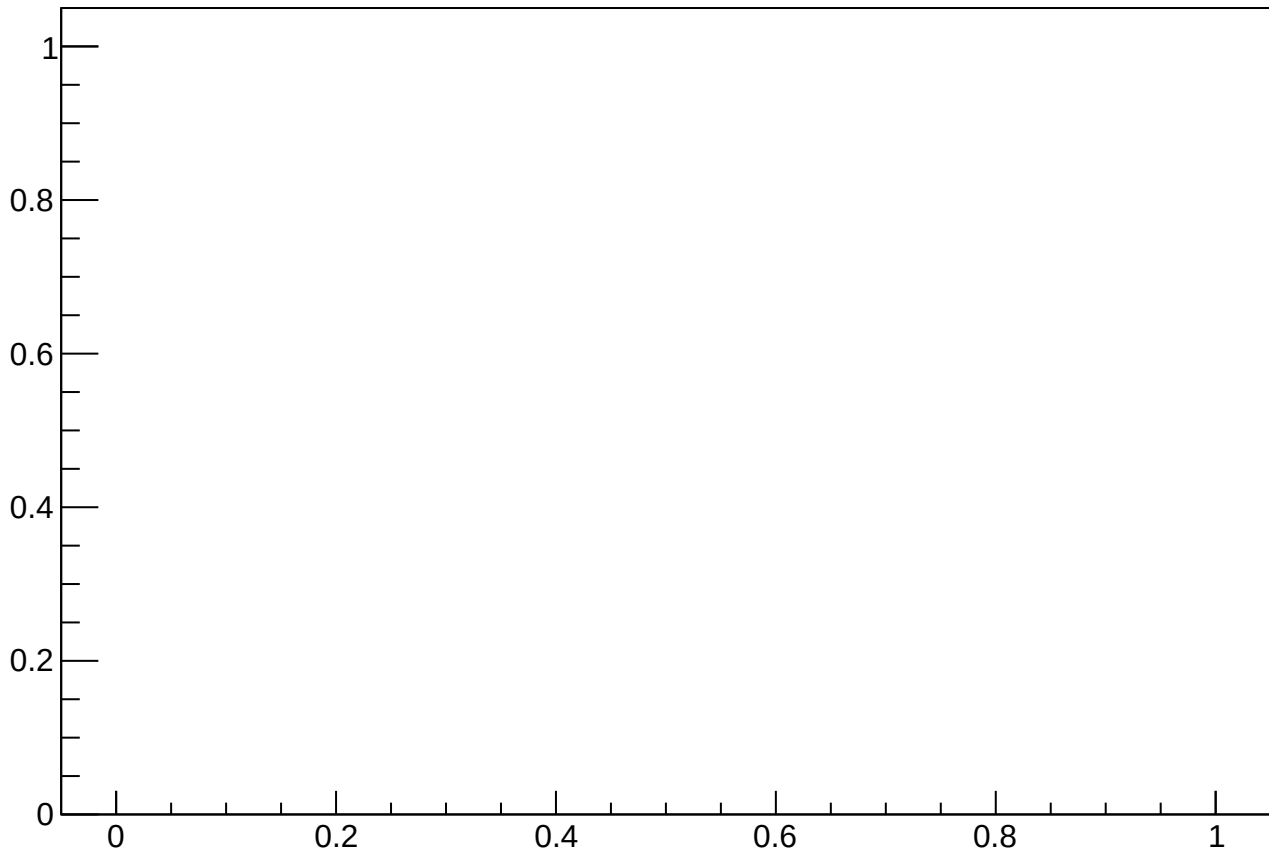
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

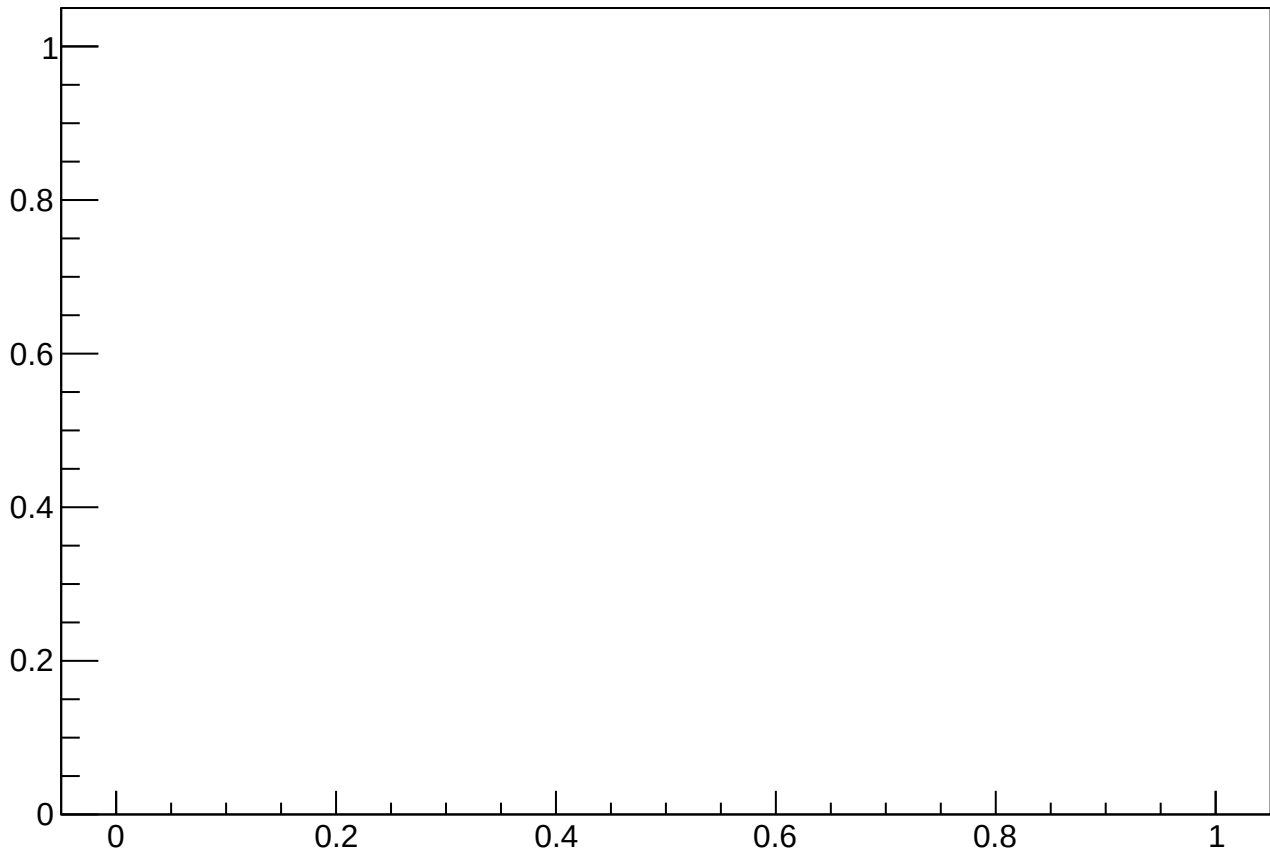
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

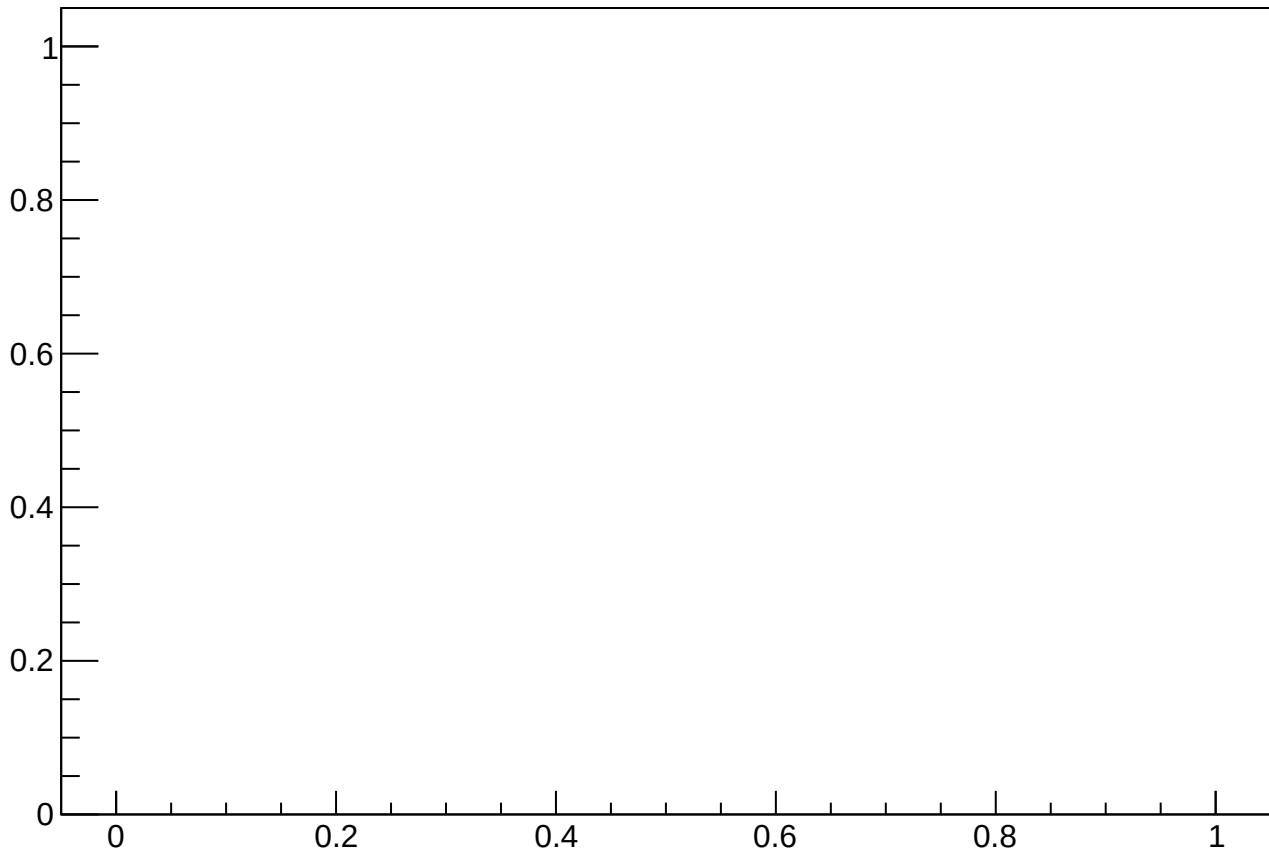
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

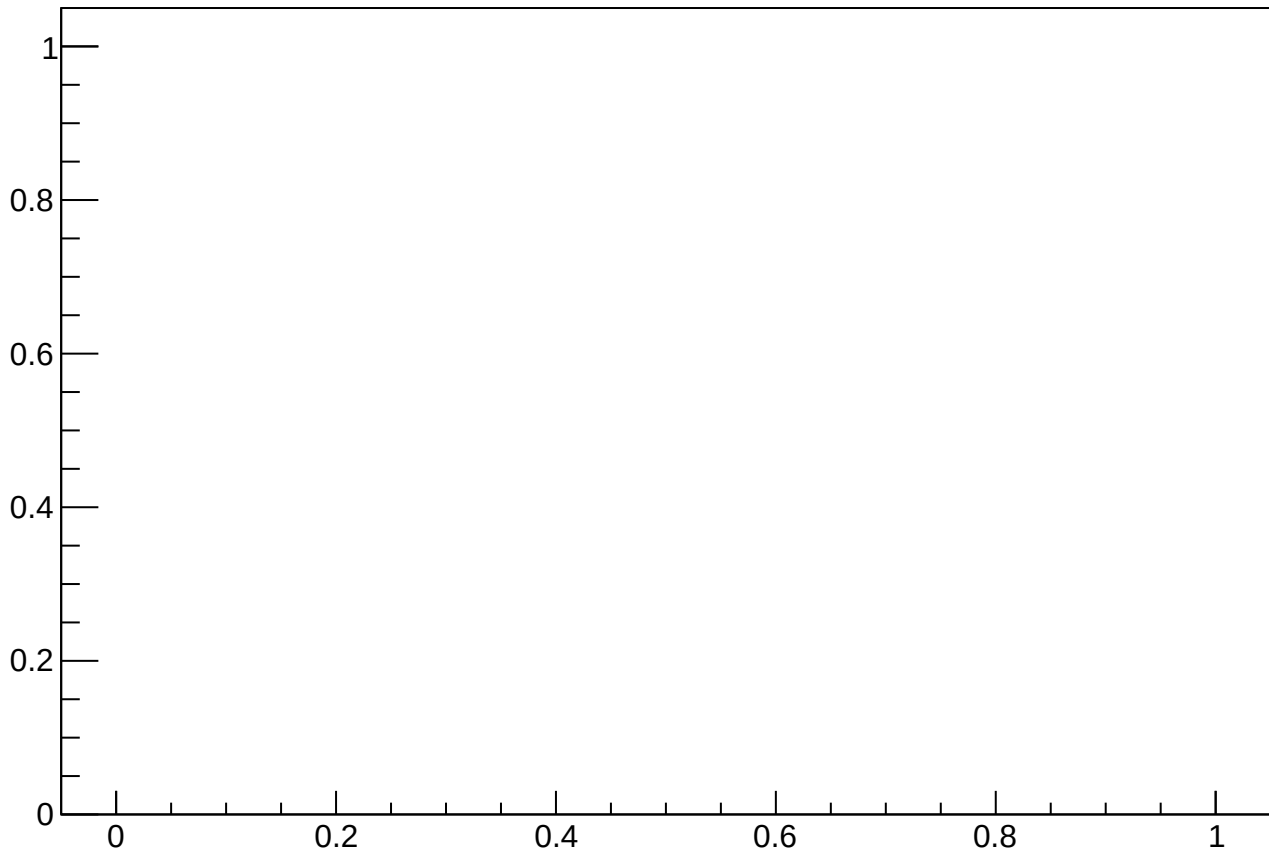
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

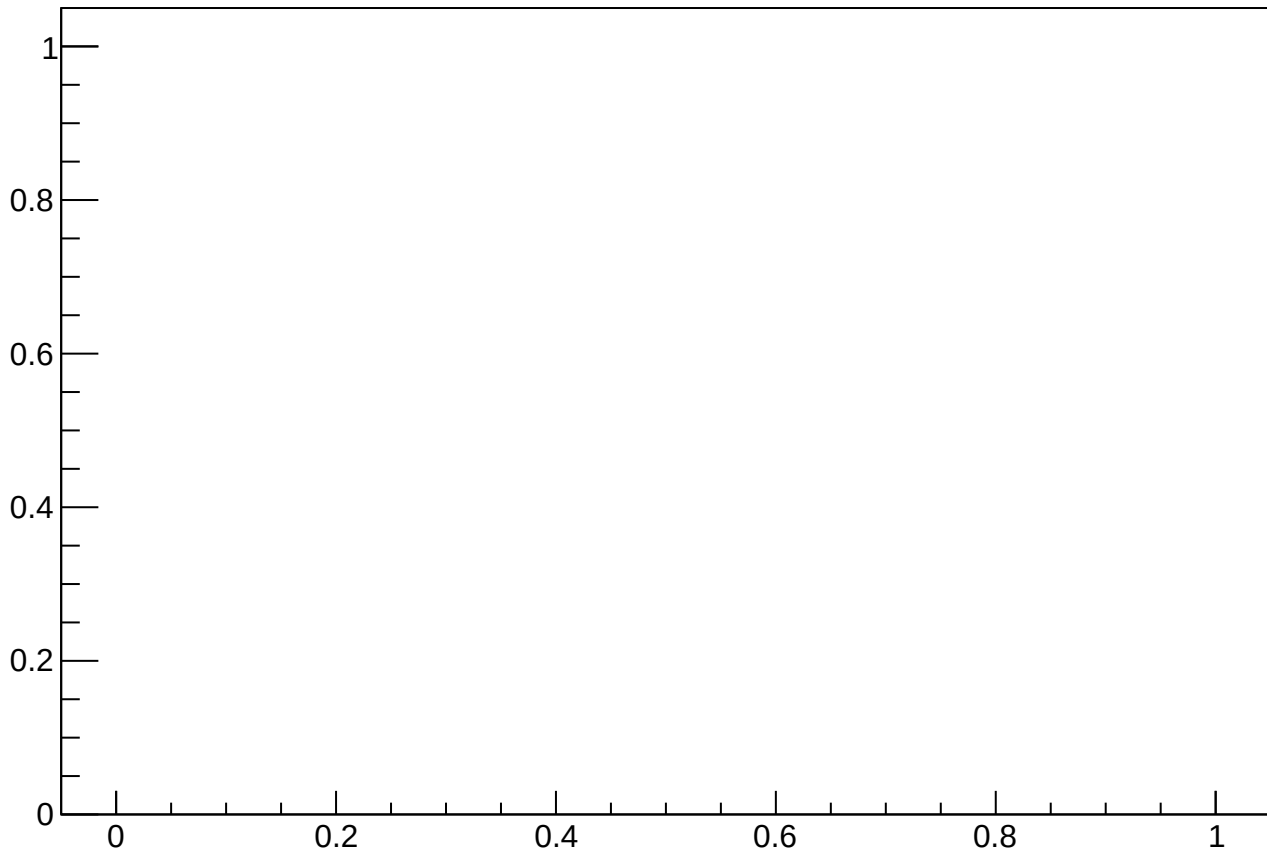
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

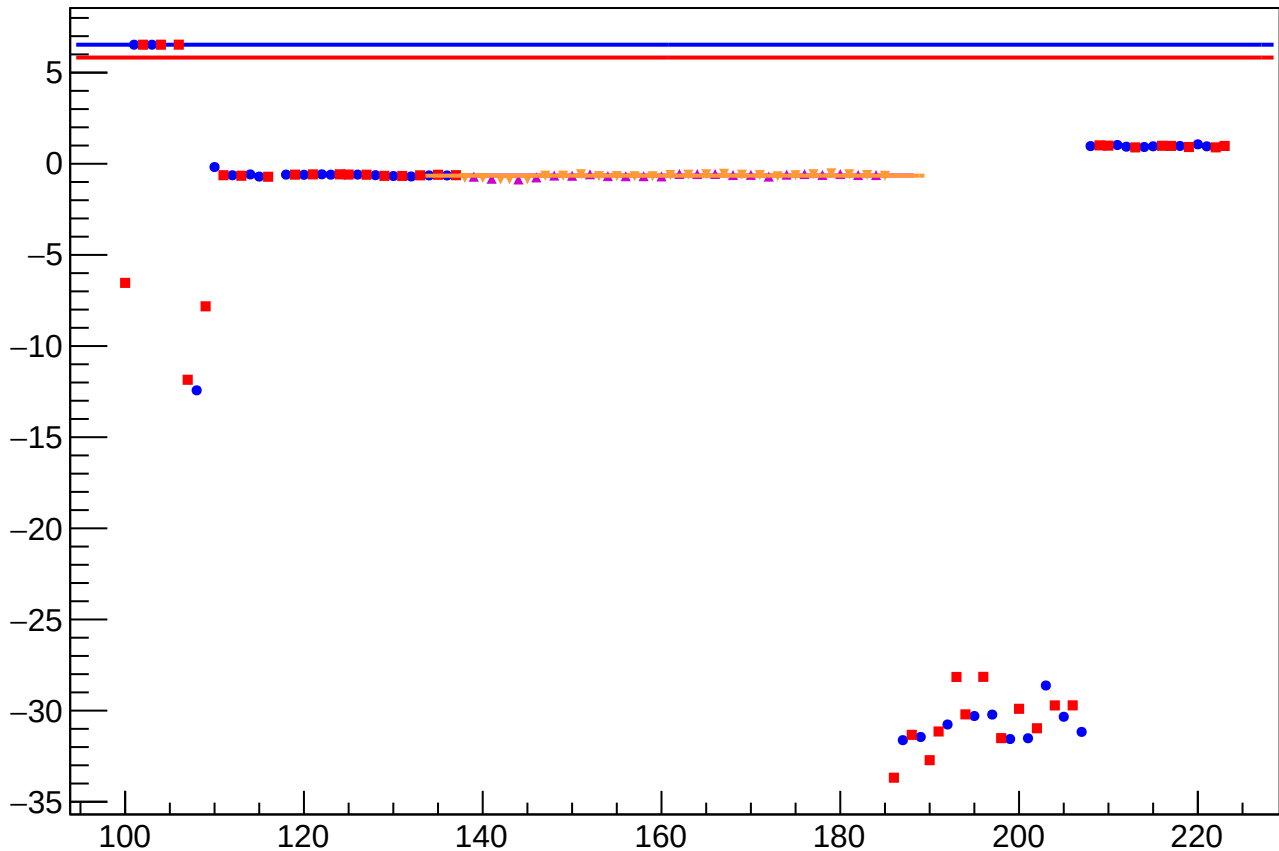
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

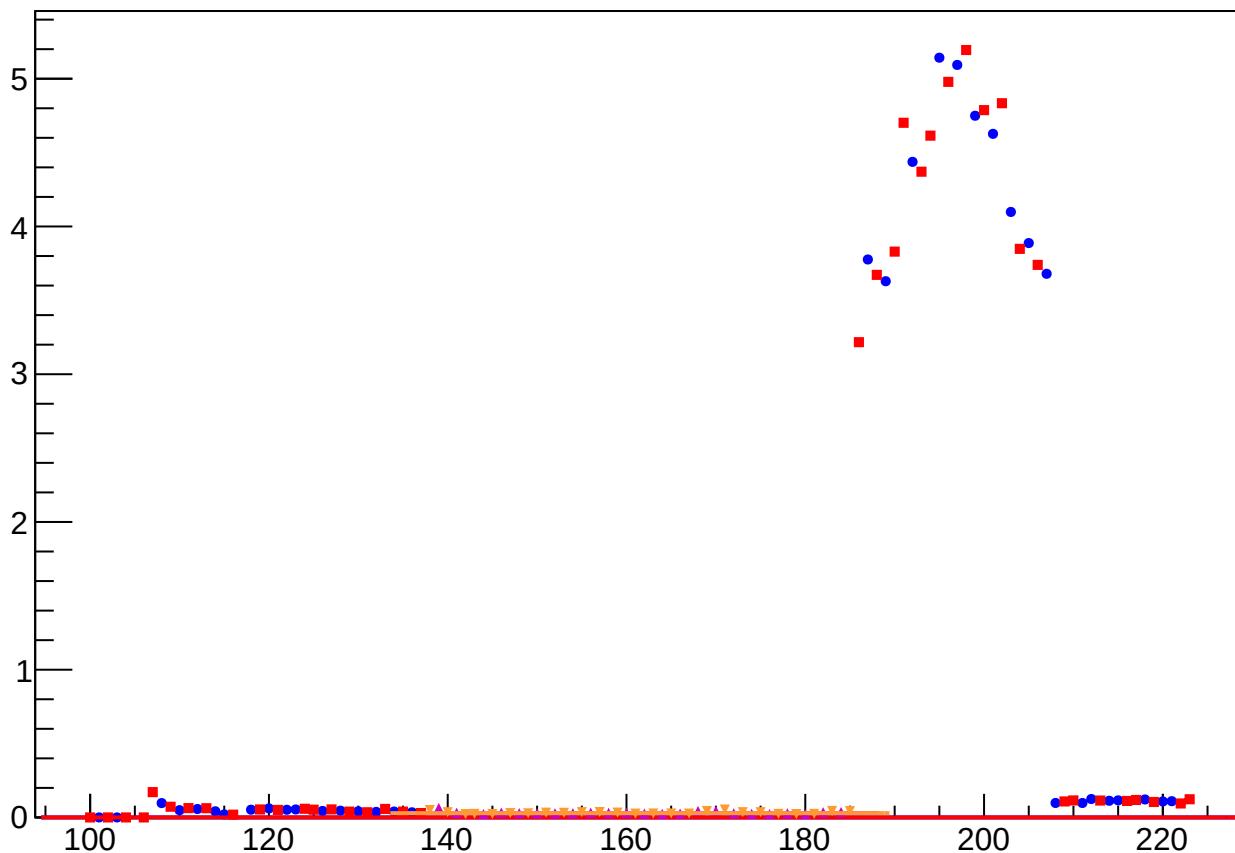
All: 0.000+/-0.000 χ^2/NDF : 0.0/0

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 143061384248.5/34
 Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24
 Right Out: 5.827+/-0.000 χ^2/NDF : 755973225531078.8/38
 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 : 776119782906885.6/57
 In: 6.530+/-0.000 χ^2/NDF : 977171653287.8/57
 Out: 5.826+/-0.000 χ^2/NDF : 756684236833834.1/6
 All: 6.153+/-0.000 χ^2/NDF : 7776532012445

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 34610647.8/34

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 35677185.3/38

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

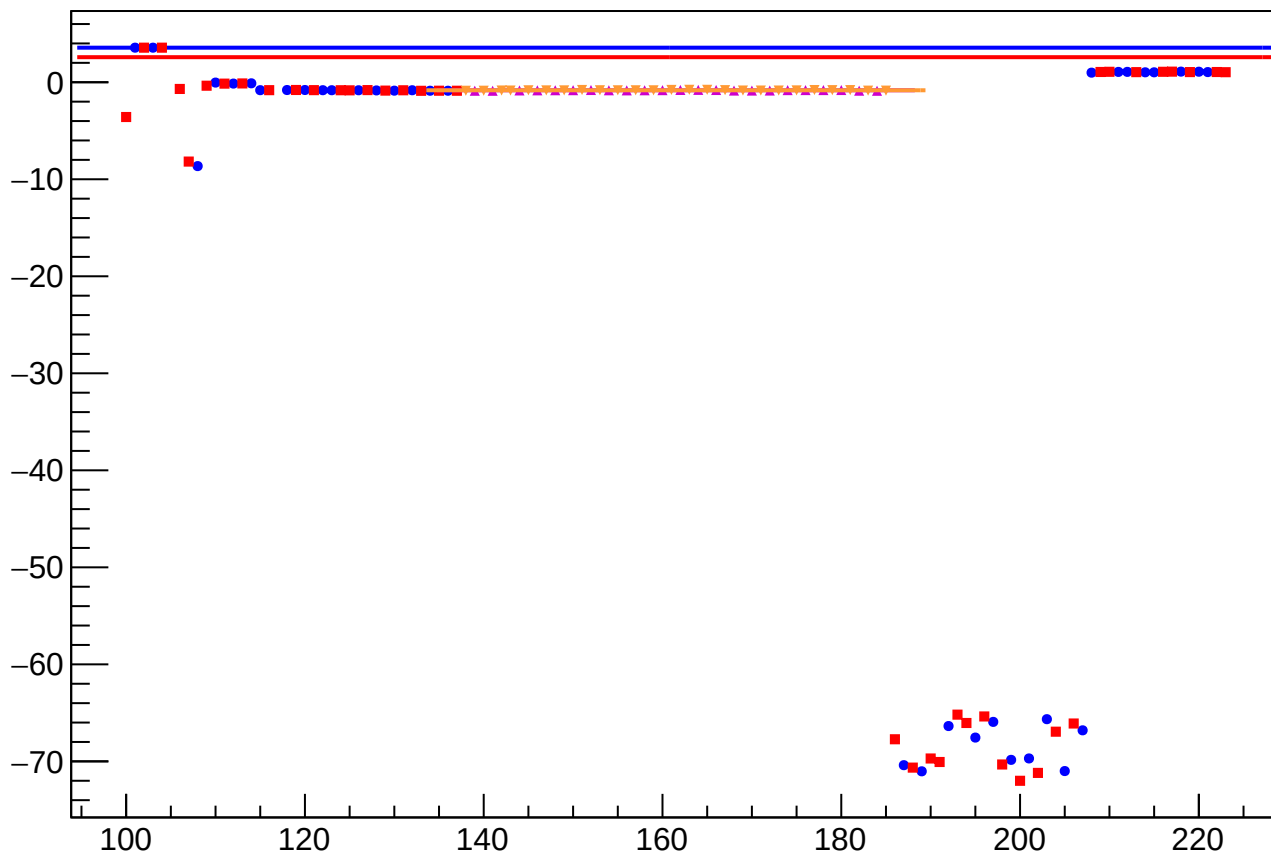
Right: 0.000+/-0.000 χ^2/NDF : 70288123.0/73

In: 0.000+/-0.000 χ^2/NDF :62787109.6/57

Out: 0.000+/-0.000 χ^2/NDF :65644096.2/63

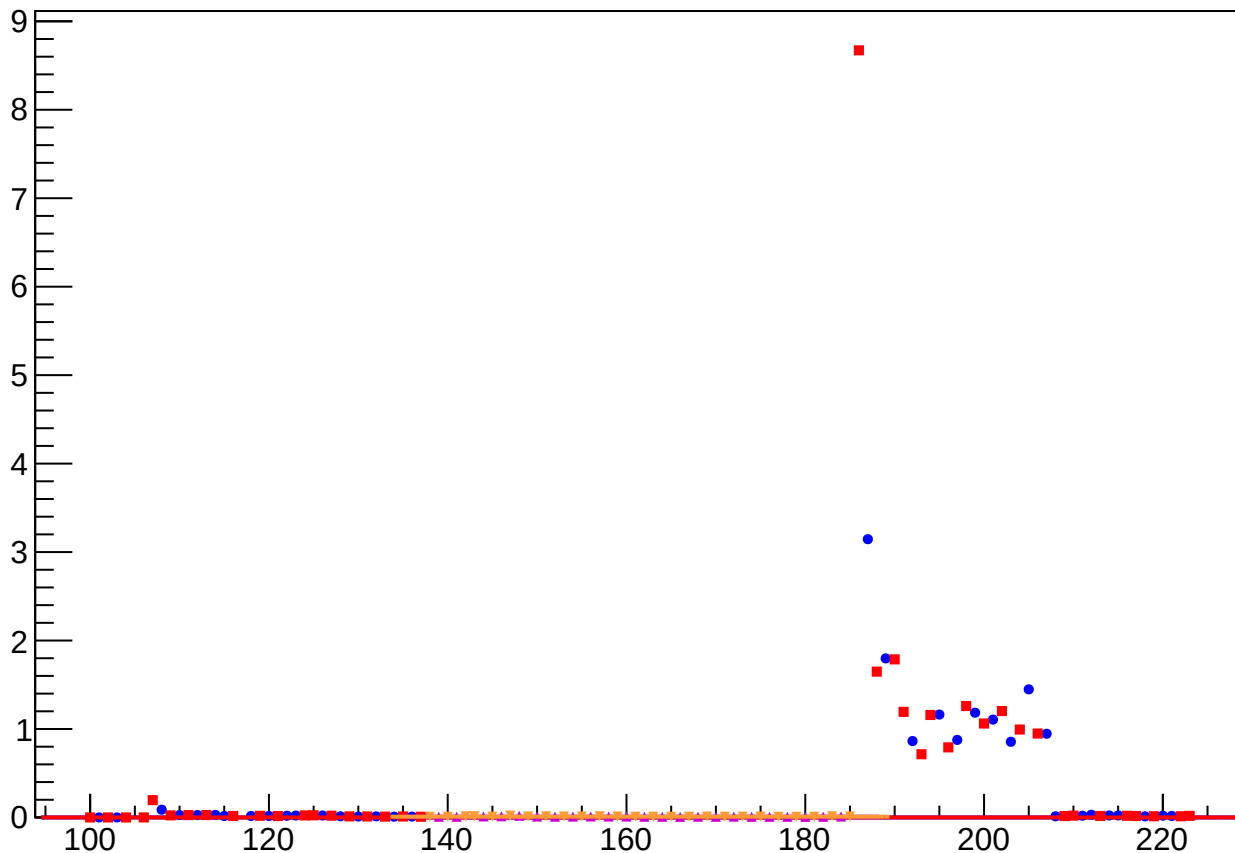
All: 0.000+/-0.000 χ^2/NDF : 128431686.3/121

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 610705287231.5/34	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 : 1382452590550717.8
Right Out: 2.583+/-0.000	χ^2/NDF : 1253577363725504.2/38	In: 3.560+/-0.000	χ^2/NDF : 4290987283415.5/57
Left In: -0.827+/-0.000	χ^2/NDF : 174130375.4/22	Out: 2.581+/-0.000	χ^2/NDF : 1255808123758630.0
		All: 3.037+/-0.000	χ^2/NDF : 13881767486583.0

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31442269.3/34

Left Out: 0.009+/-0.000 χ^2/NDF :1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 33106742.1/38

Left In: 0.009+/-0.000 χ^2/NDF :1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

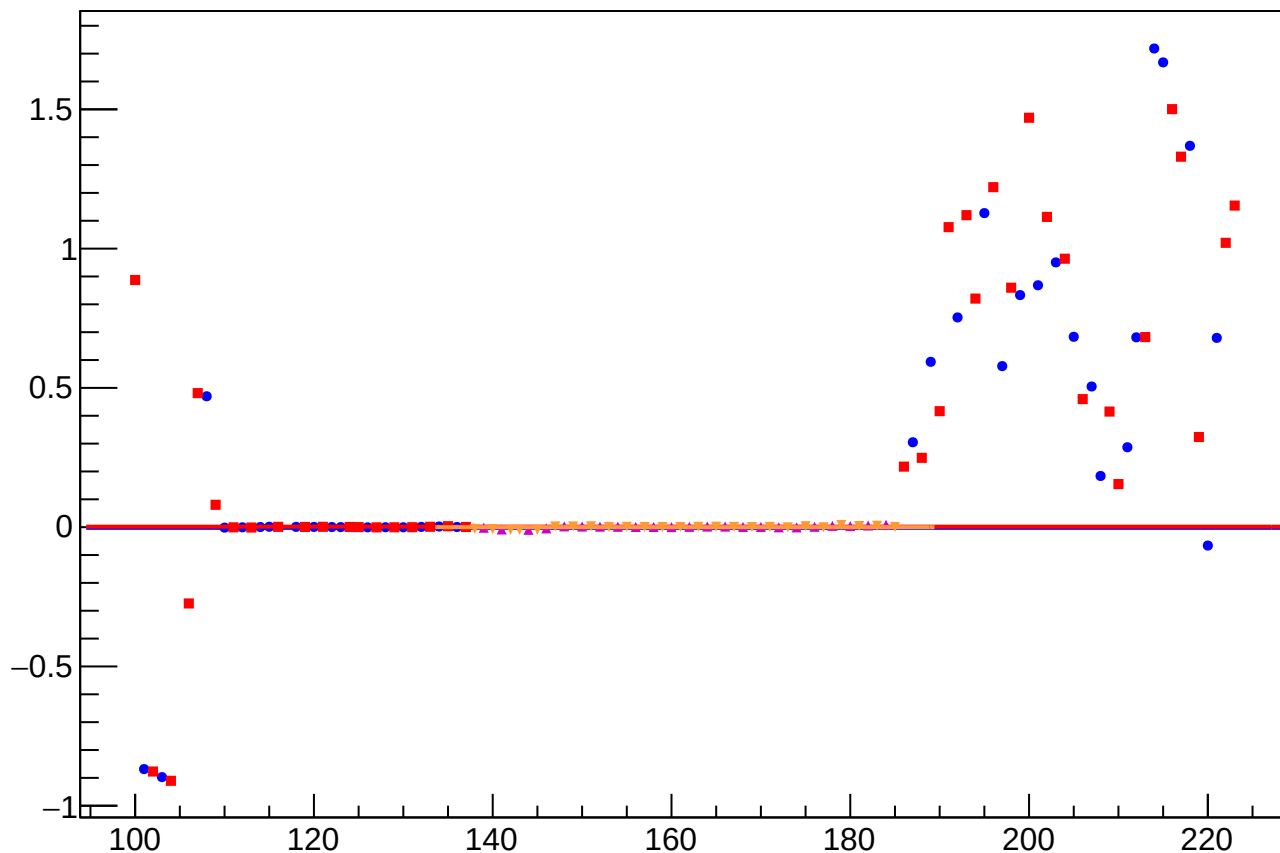
Right: 0.000+/-0.000 χ^2/NDF : 64549296.9/73

In: 0.000+/-0.000 χ^2/NDF :61231937.2/57

Out: 0.000+/-0.000 χ^2/NDF :64617366.2/63

All: 0.000+/-0.000 χ^2/NDF : 125850101.3/121

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9797510653.3/34

Left Out: -0.000 ± 0.000

χ^2/NDF : 151559332.0/24

Right Out: 0.002 ± 0.000

χ^2/NDF : 3044448273.4/38

Left In: 0.001 ± 0.000

χ^2/NDF : 101468517.6/22

Left: 0.000 ± 0.000 χ^2/NDF : 254489625.0/47

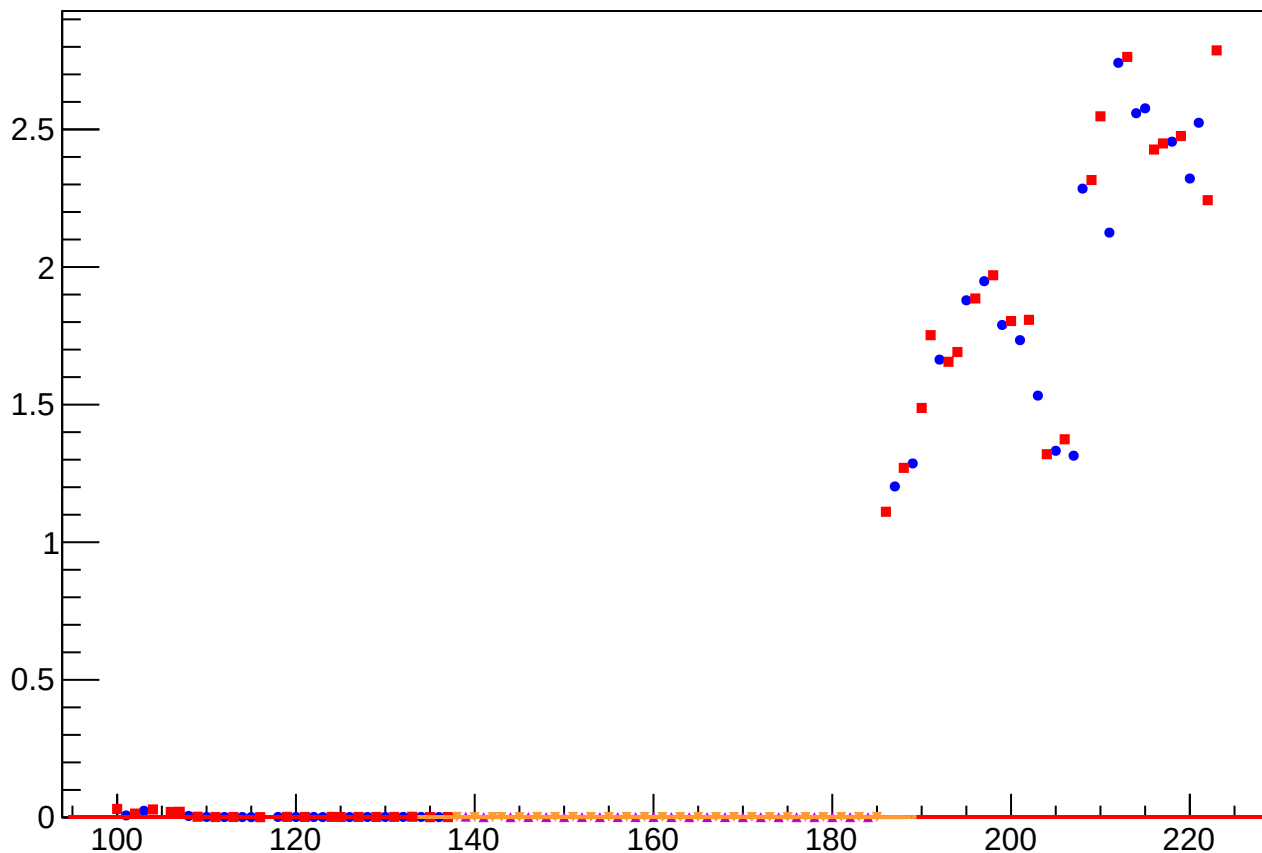
Right: -0.000 ± 0.000 χ^2/NDF : 12856106635.3/73

In: -0.000 ± 0.000 χ^2/NDF : 9910413875.3/57

Out: 0.000 ± 0.000 χ^2/NDF : 3200688614.1/63

All: 0.000 ± 0.000 χ^2/NDF : 13111473965.5/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 27675938.1/34

Left Out: 0.001+/-0.000 χ^2/NDF : 539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 29360911.7/38

Left In: 0.001+/-0.000 χ^2/NDF : 659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

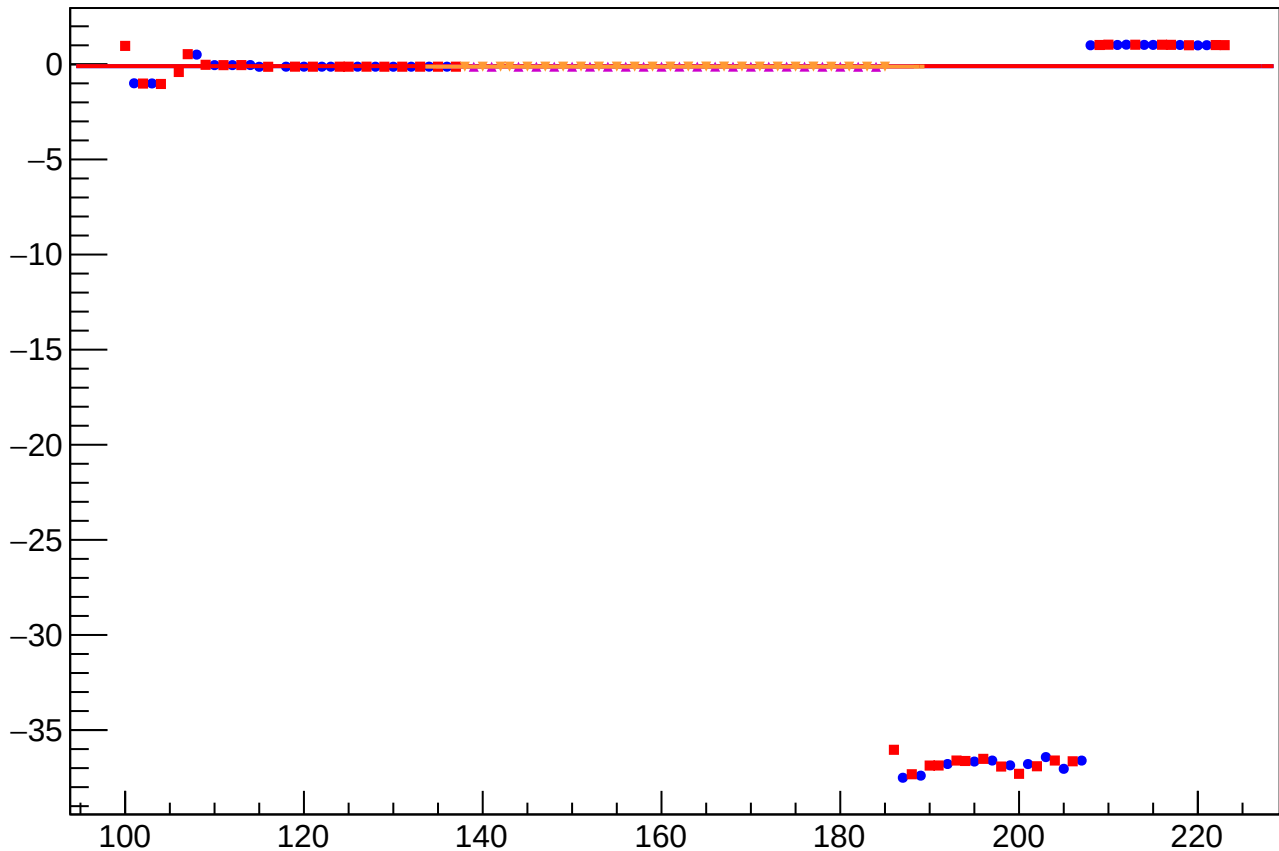
Right: 0.002+/-0.000 χ^2/NDF : 57044815.4/73

In: 0.002+/-0.000 χ^2/NDF : 28389511.0/57

Out: 0.002+/-0.000 χ^2/NDF : 30038331.1/63

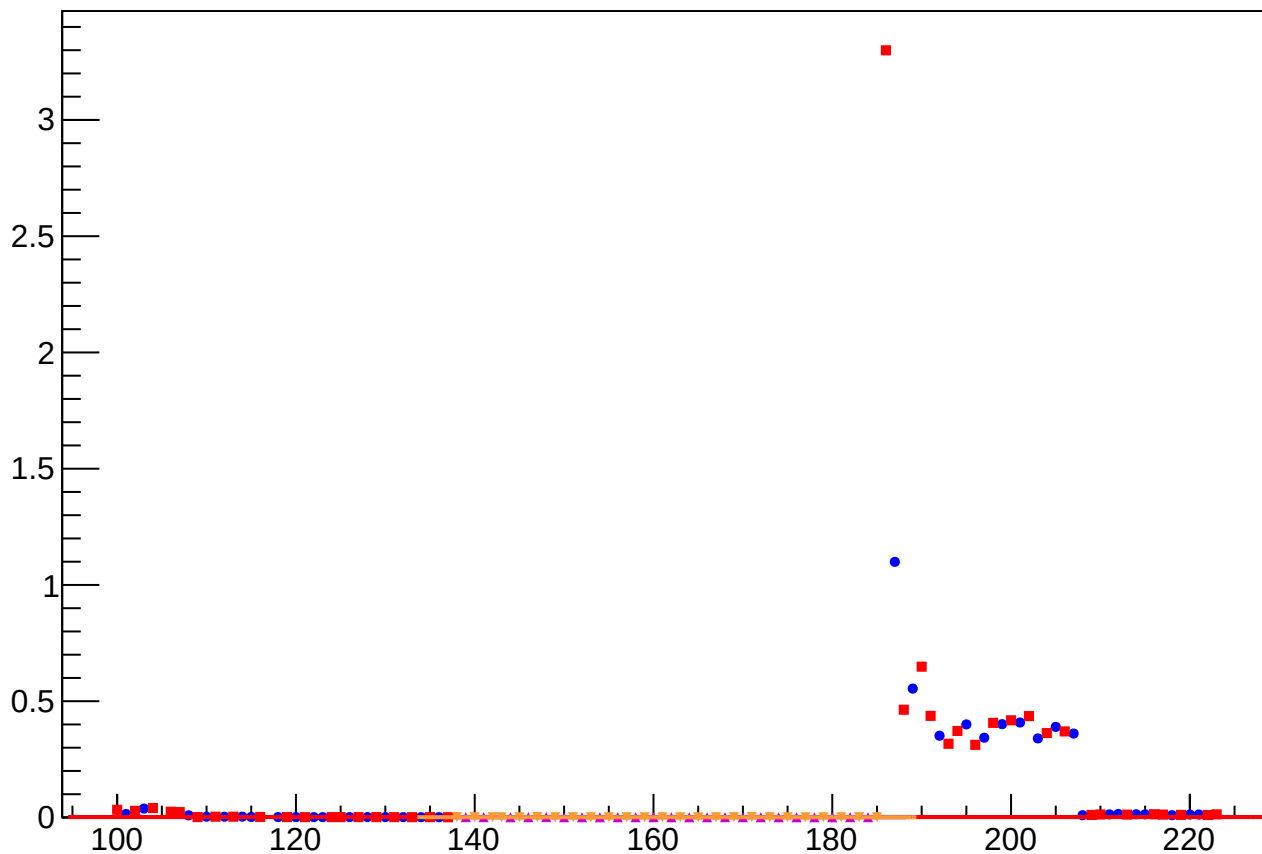
All: 0.002+/-0.000 χ^2/NDF : 58428479.3/121

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.098+/-0.000	χ^2/NDF : 114707545129.4/34	Left: -0.121+/-0.000	χ^2/NDF : 111705307.2/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58329026.8/24	Right: -0.096+/-0.000	χ^2/NDF : 231913473452.9/73
Right Out: -0.094+/-0.000	χ^2/NDF : 117186727157.1/38	In: -0.119+/-0.000	χ^2/NDF : 115655678731.9/57
Left In: -0.121+/-0.000	χ^2/NDF : 53134323.3/22	Out: -0.118+/-0.000	χ^2/NDF : 118556444299.7/63
		All: -0.118+/-0.000	χ^2/NDF : 234212376551.0

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 24788018.2/34

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 26428966.3/38

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

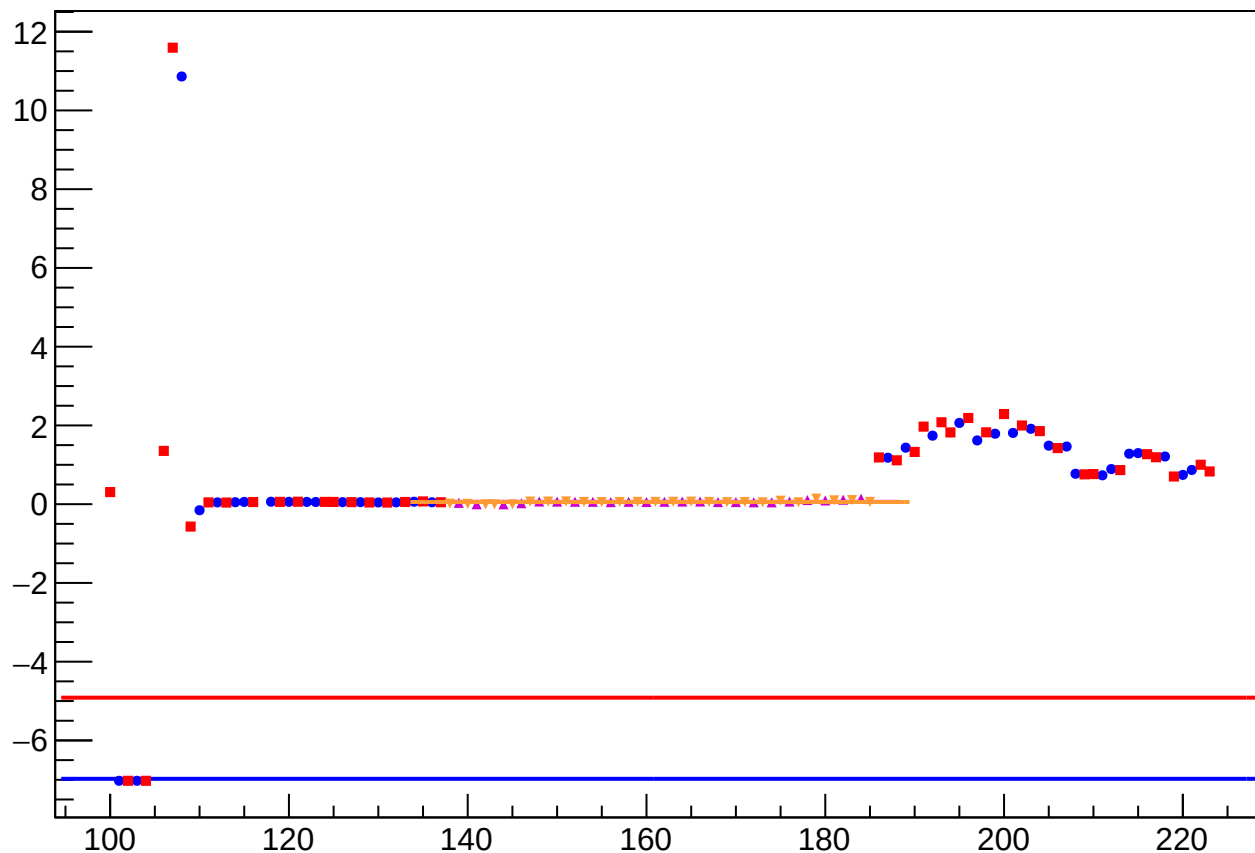
Right: 0.002+/-0.000 χ^2/NDF : 51217376.1/73

In: 0.001+/-0.000 χ^2/NDF :27948111.7/57

Out: 0.001+/-0.000 χ^2/NDF :29969815.6/63

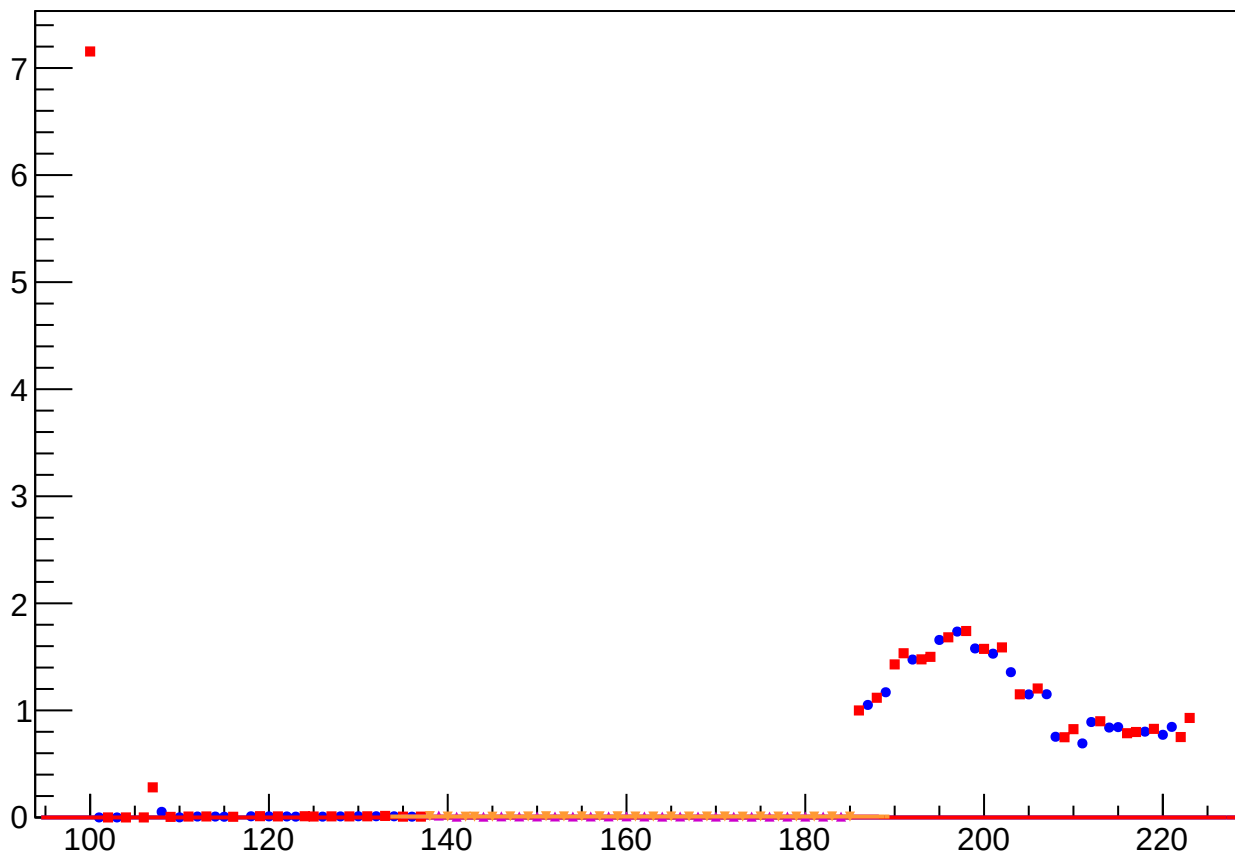
All: 0.001+/-0.000 χ^2/NDF : 57921017.8/121

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8763306111710.8/34$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423872259.5/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243733184.3/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430304466081947.9$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365349000842618.8/38$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605824645319.6/57$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175683695678.2/$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435824185859$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 34007413.6/34

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 35128974.2/38

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

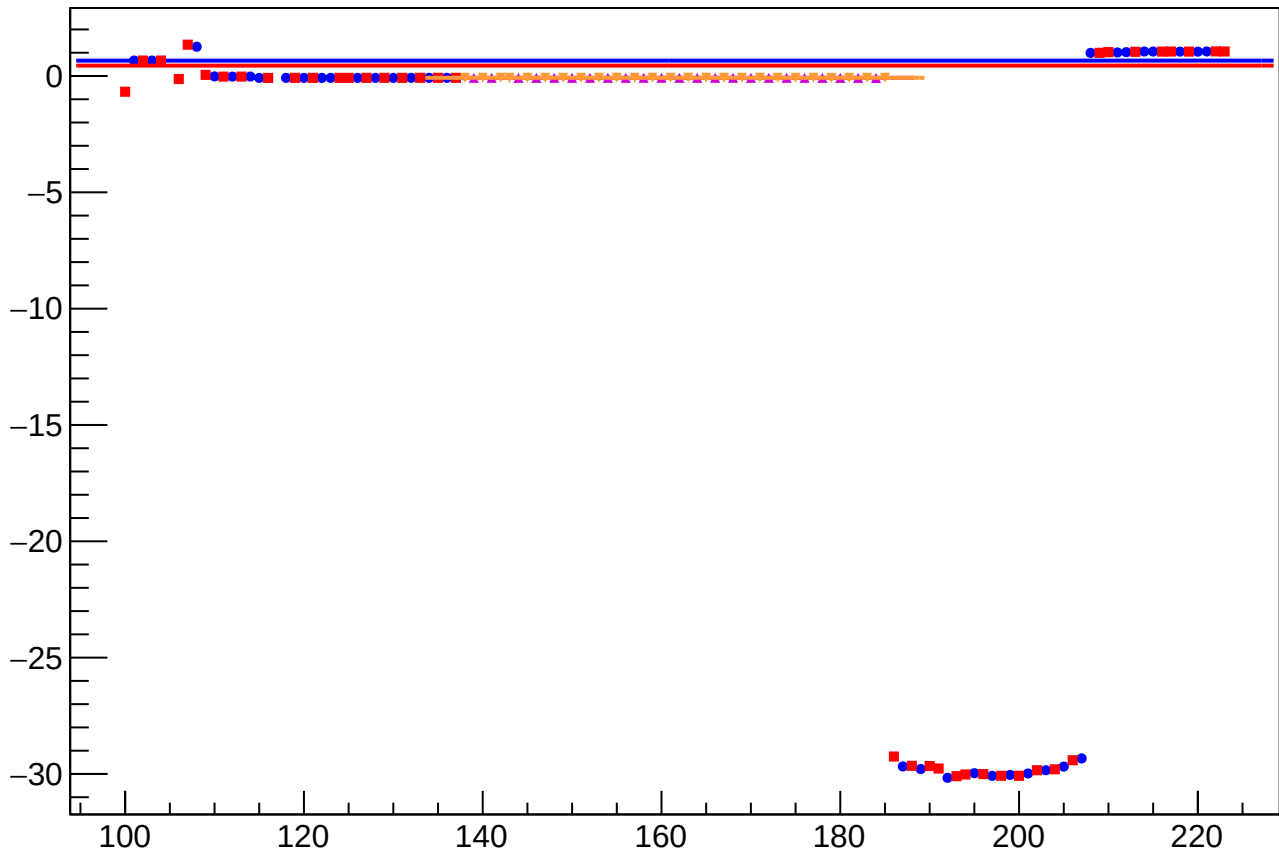
Right: 0.000+/-0.000 χ^2/NDF : 69136703.8/73

In: 0.000+/-0.000 χ^2/NDF : 61642012.0/57

Out: 0.000+/-0.000 χ^2/NDF : 64155114.0/63

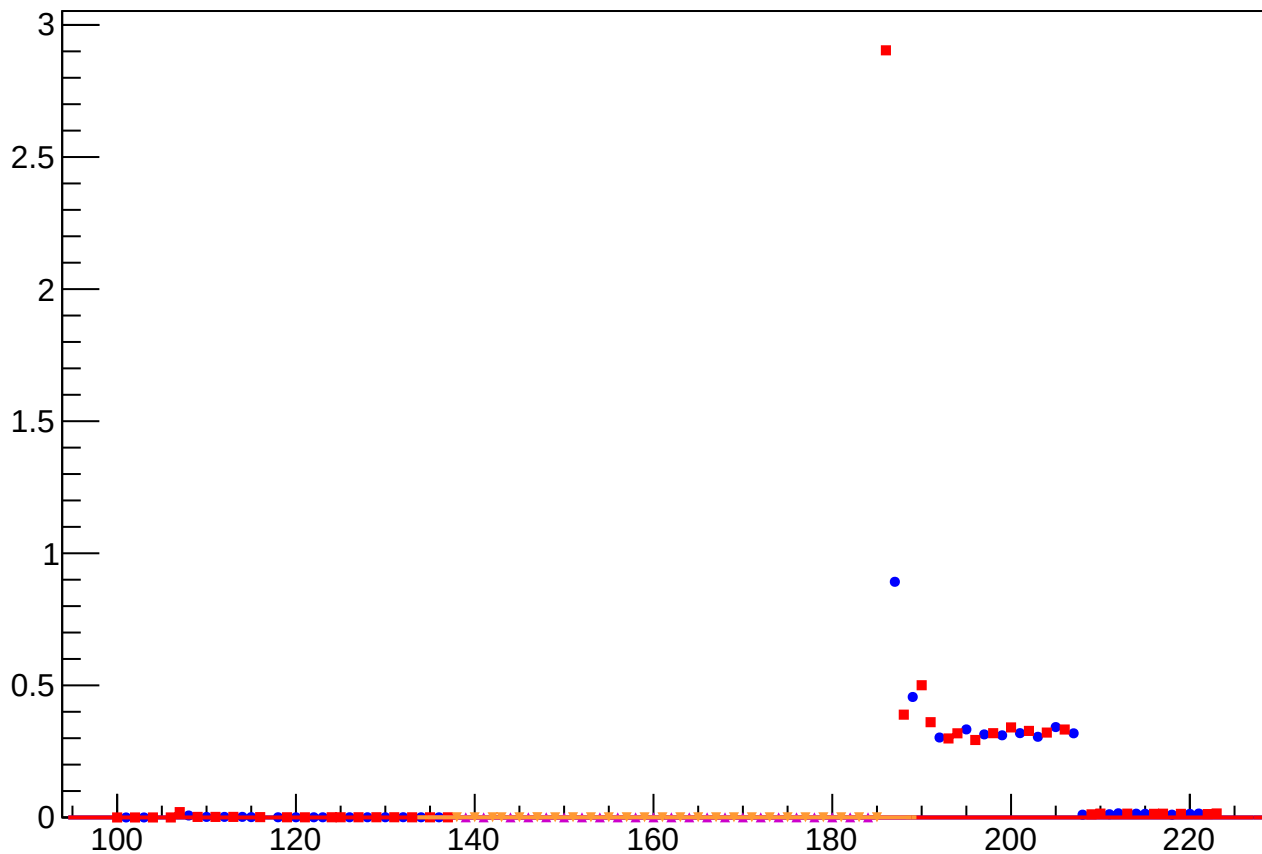
All: 0.000+/-0.000 χ^2/NDF : 125797627.9/121

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5650606471090.8/34	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 : 474068960122810.7
Right Out: 0.446+/-0.000	χ^2/NDF : 405489078912927.8/38	In: 0.647+/-0.000	χ^2/NDF : 33910926157552.8/57
Left In: -0.077+/-0.000	χ^2/NDF : 111221084.5/22	Out: 0.436+/-0.000	χ^2/NDF : 420683999976669.9/6
		All: 0.537+/-0.000	χ^2/NDF : 51611969522069

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 35196633.7/34

Left Out: 0.001+/-0.000 χ^2/NDF :466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 35632355.2/38

Left In: 0.001+/-0.000 χ^2/NDF :355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

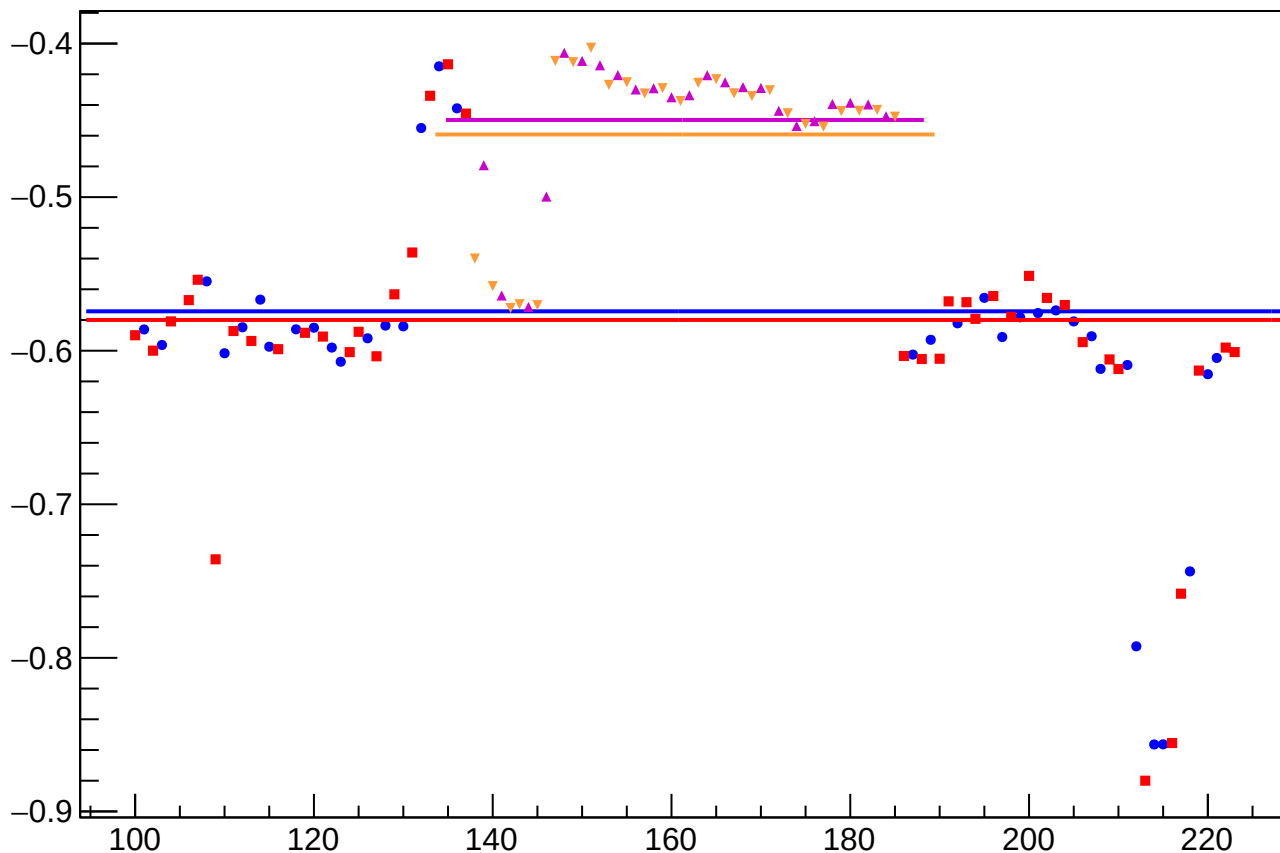
Right: 0.000+/-0.000 χ^2/NDF : 70829006.5/73

In: 0.000+/-0.000 χ^2/NDF :66155582.8/57

Out: 0.000+/-0.000 χ^2/NDF :68329435.0/63

All: 0.000+/-0.000 χ^2/NDF : 134485485.4/121

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.574 $\pm$ 0.000 χ^2/NDF : 115433328.3/34

Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.580 $\pm$ 0.000 χ^2/NDF : 120078030.8/38

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

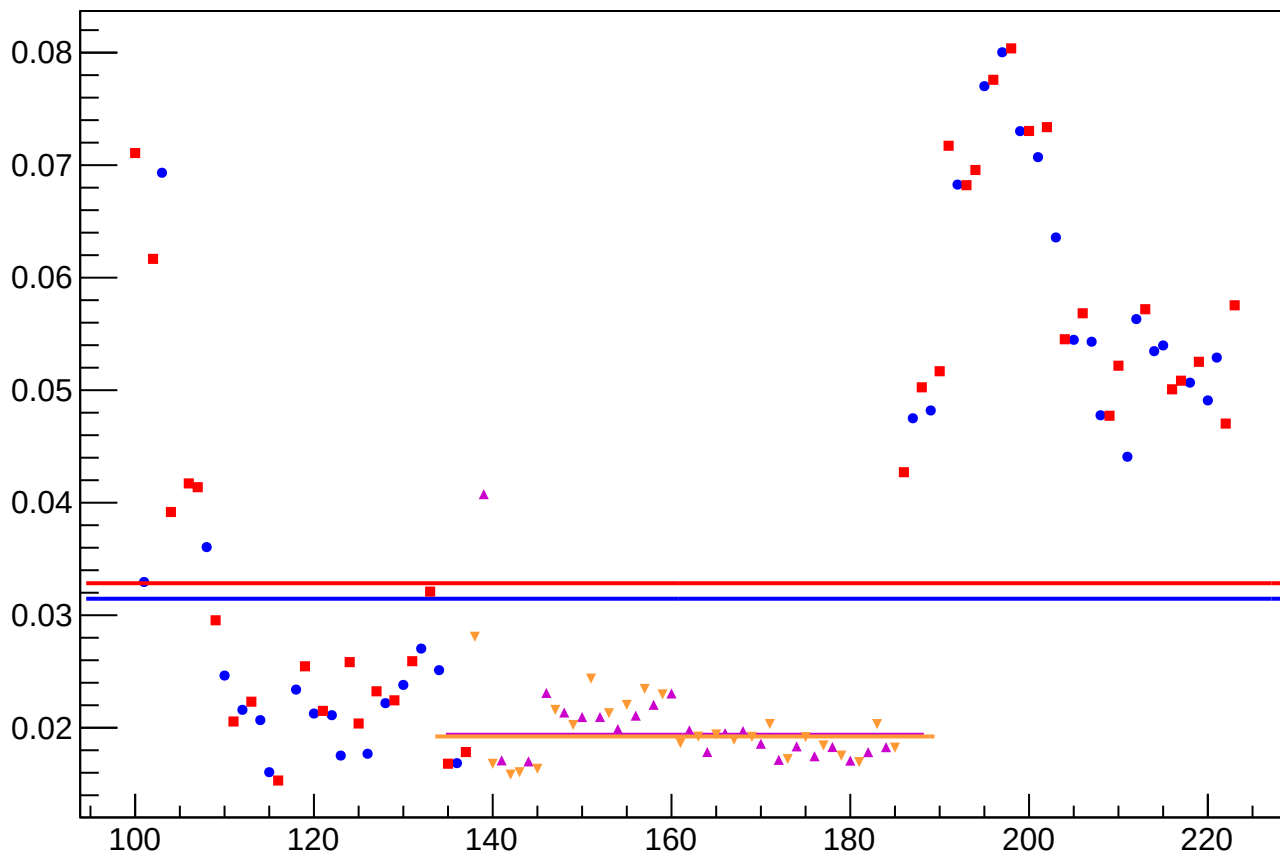
Right: -0.577 $\pm$ 0.000 χ^2/NDF : 235735009.8/73

In: -0.484 $\pm$ 0.000 χ^2/NDF : 353107583.0/57

Out: -0.490 $\pm$ 0.000 χ^2/NDF : 384808138.5/63

All: -0.487 $\pm$ 0.000 χ^2/NDF : 738817289.4/12

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 8295223.3/34

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.033+/-0.000 χ^2/NDF : 8102425.5/38

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

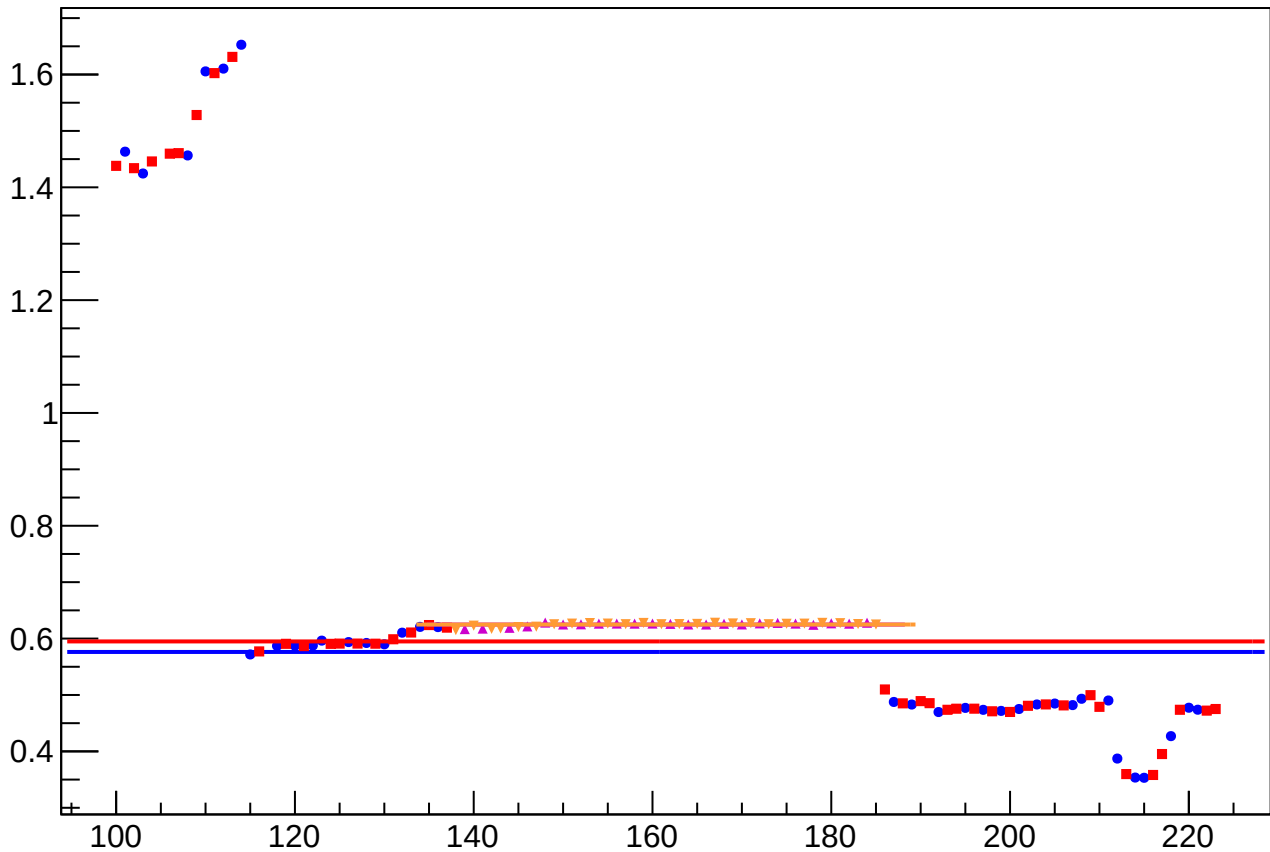
Right: 0.032+/-0.000 χ^2/NDF : 16424626.1/73

In: 0.023+/-0.000 χ^2/NDF : 11992424.4/57

Out: 0.023+/-0.000 χ^2/NDF : 12442488.6/63

All: 0.023+/-0.000 χ^2/NDF : 24434921.0/121

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.576 $\pm$ 0.000 χ^2 /NDF: 5645263239.0/34

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1442225.6/24

Right Out: 0.595 $\pm$ 0.000 χ^2 /NDF: 6690224868.7/38

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

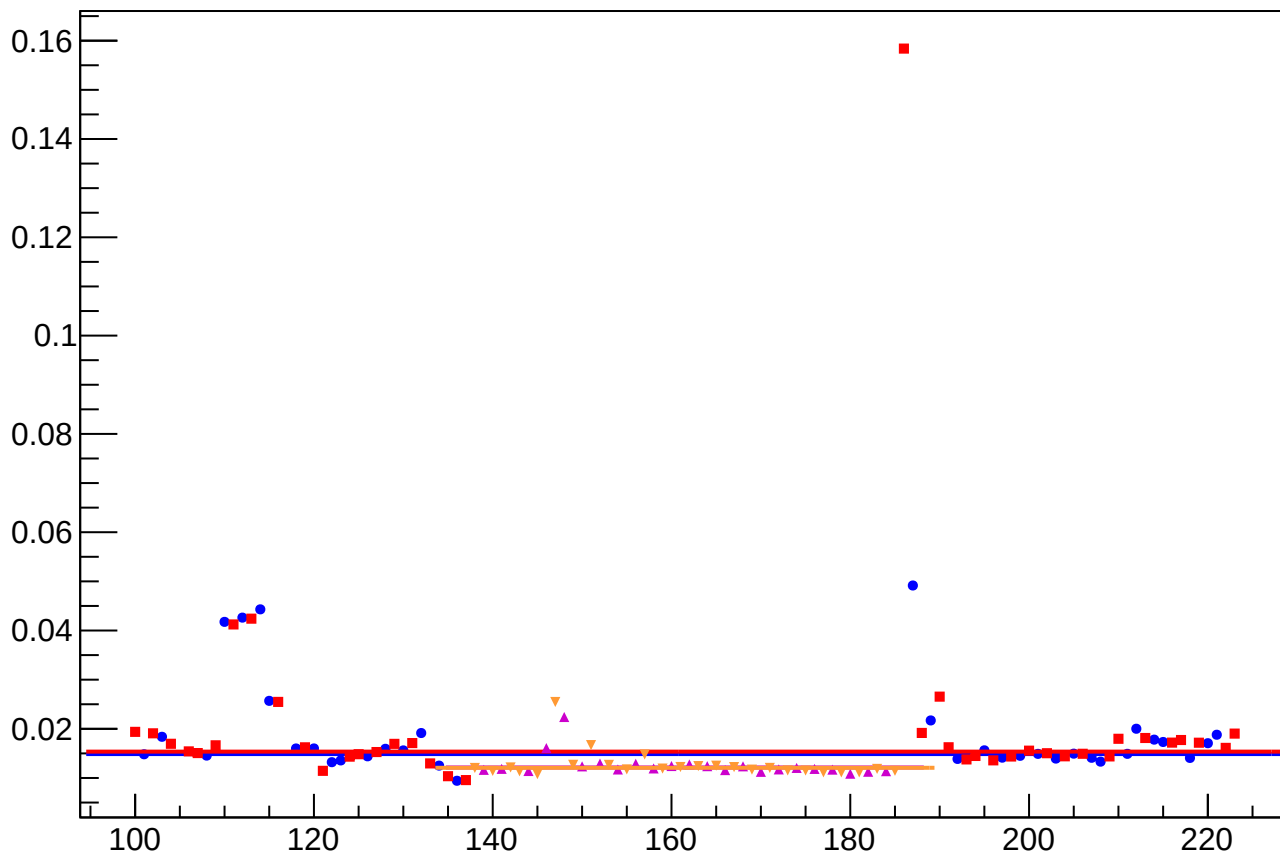
Right: 0.585 $\pm$ 0.000 χ^2 /NDF: 12349432205.4/73

In: 0.605 $\pm$ 0.000 χ^2 /NDF:5758588244.4/57

Out: 0.613 $\pm$ 0.000 χ^2 /NDF:6734555431.4/63

All: 0.609 $\pm$ 0.000 χ^2 /NDF: 12500301087.5/122

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1964235.7/34

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2255857.9/38

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

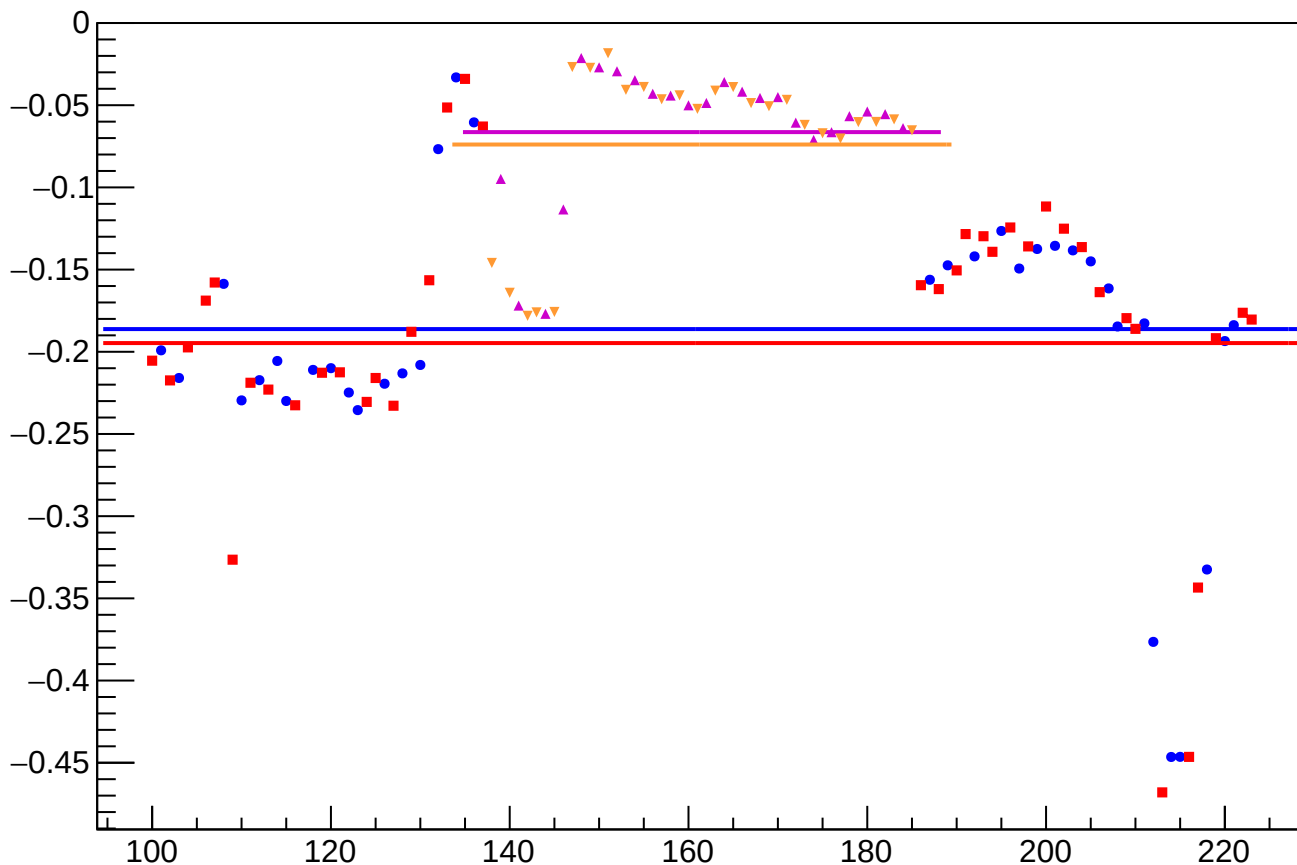
Right: 0.015+/-0.000 χ^2/NDF : 4239971.0/73

In: 0.013+/-0.000 χ^2/NDF : 3161225.2/57

Out: 0.013+/-0.000 χ^2/NDF : 3946706.0/63

All: 0.013+/-0.000 χ^2/NDF : 7109721.5/121

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.186 ± 0.000 $\chi^2/\text{NDF}: 127812870.4/34$

Left Out: -0.074 ± 0.000 $\chi^2/\text{NDF}: 107858881.3/24$

Right Out: -0.195 ± 0.000 $\chi^2/\text{NDF}: 134273798.4/38$

Left In: -0.066 ± 0.000 $\chi^2/\text{NDF}: 76283954.4/22$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 185261776.8/47$

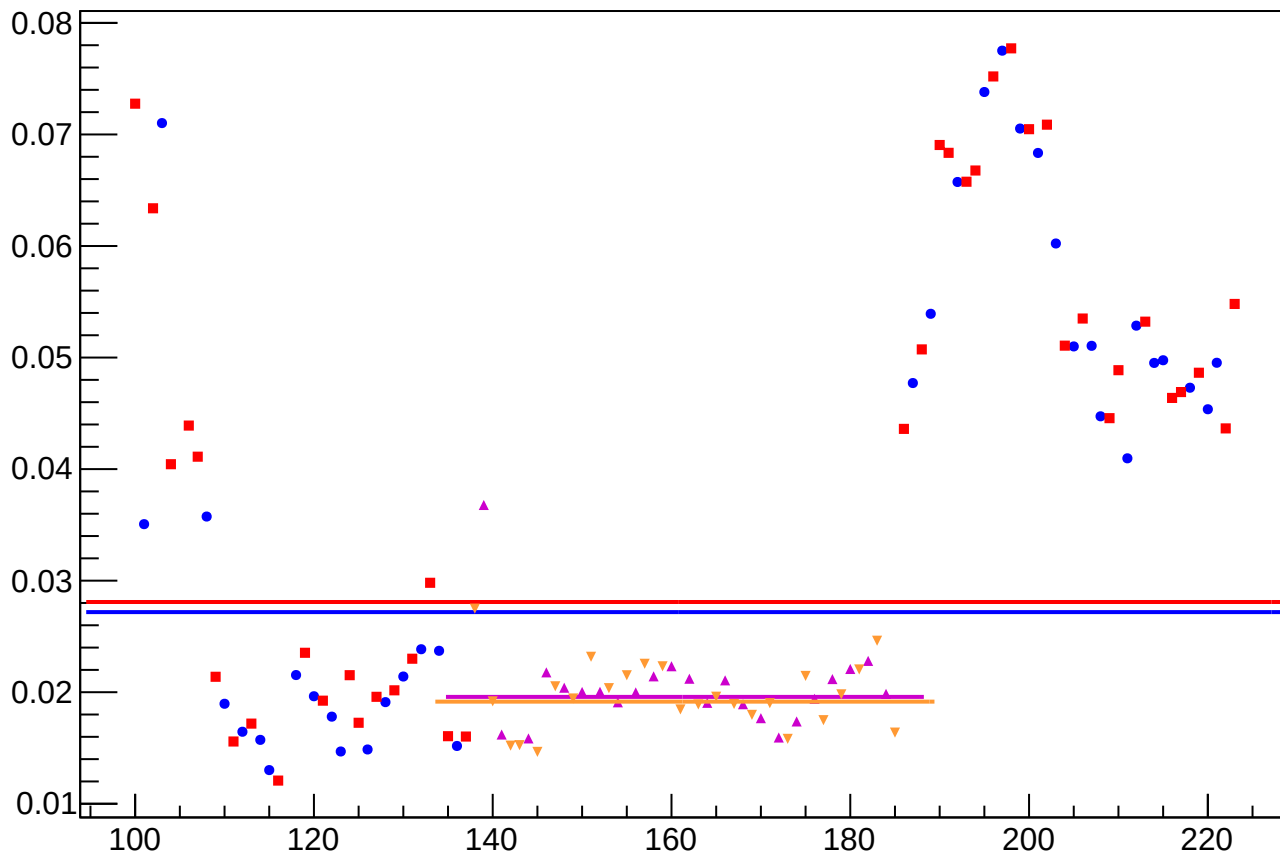
Right: -0.190 ± 0.000 $\chi^2/\text{NDF}: 262742330.7/73$

In: -0.106 ± 0.000 $\chi^2/\text{NDF}: 380822403.2/57$

Out: -0.110 ± 0.000 $\chi^2/\text{NDF}: 424084260.9/63$

All: -0.108 ± 0.000 $\chi^2/\text{NDF}: 805547732.2/12$

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 9769801.9/34

Left Out: 0.019+/-0.000 χ^2/NDF : 641027.3/24

Right Out: 0.028+/-0.000 χ^2/NDF : 9951545.2/38

Left In: 0.020+/-0.000 χ^2/NDF : 651328.7/22

Left: 0.019+/-0.000 χ^2/NDF : 1299461.3/47

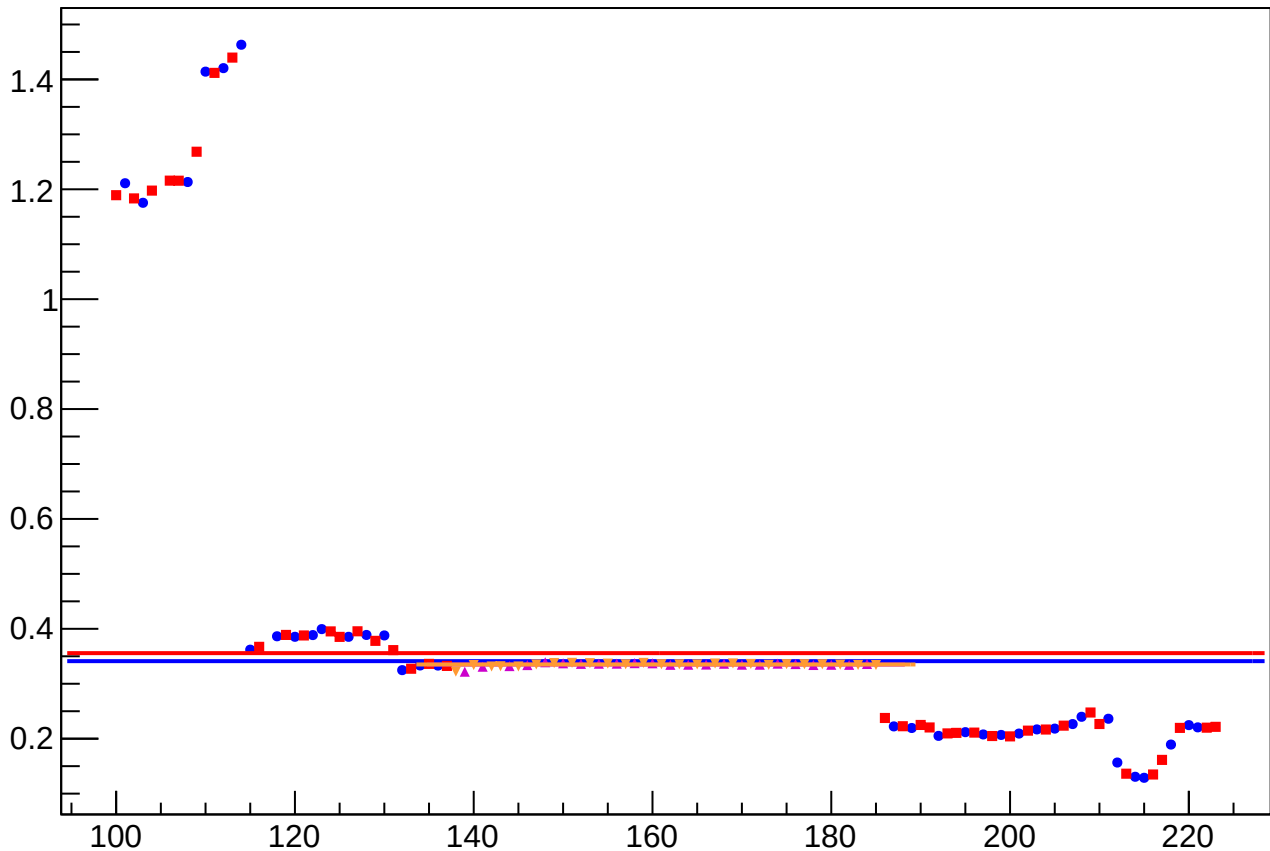
Right: 0.028+/-0.000 χ^2/NDF : 19736225.7/73

In: 0.022+/-0.000 χ^2/NDF : 11843071.0/57

Out: 0.022+/-0.000 χ^2/NDF : 12582674.5/63

All: 0.022+/-0.000 χ^2/NDF : 24428524.3/121

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.341+/-0.000 χ^2/NDF : 8135536260.8/34

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.356+/-0.000 χ^2/NDF : 9221251192.0/38

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

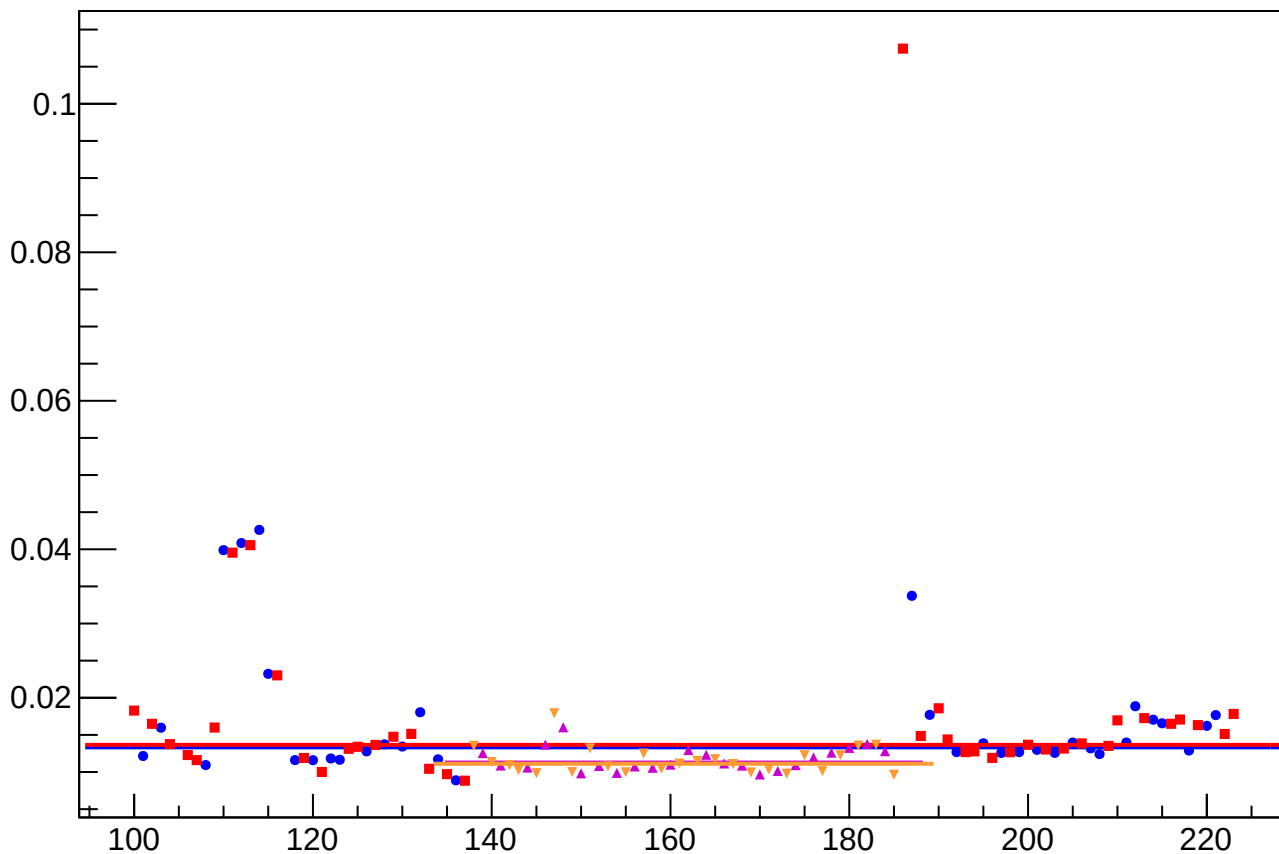
Right: 0.348+/-0.000 χ^2/NDF : 17367430919.7/73

In: 0.338+/-0.000 χ^2/NDF :8138887892.0/57

Out: 0.344+/-0.000 χ^2/NDF :9247235380.3/63

All: 0.341+/-0.000 χ^2/NDF : 17390234460.2/131

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1998905.4/34

Left Out: 0.011+/-0.000 χ^2/NDF : 608235.7/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2306509.8/38

Left In: 0.011+/-0.000 χ^2/NDF : 502226.7/22

Left: 0.011+/-0.000 χ^2/NDF : 1113859.9/47

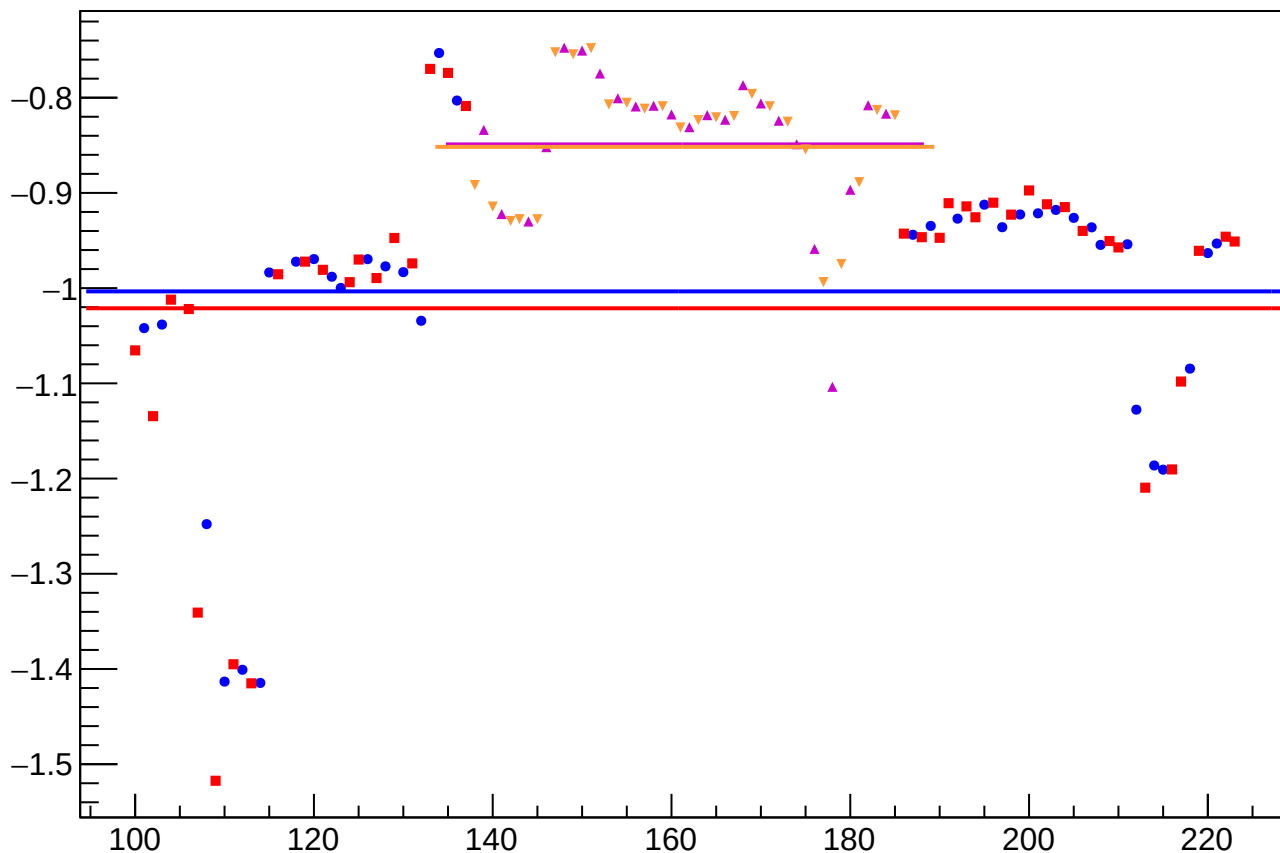
Right: 0.013+/-0.000 χ^2/NDF : 4316306.6/73

In: 0.012+/-0.000 χ^2/NDF : 2981026.2/57

Out: 0.012+/-0.000 χ^2/NDF : 3666219.3/63

All: 0.012+/-0.000 χ^2/NDF : 6647261.3/121

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.003+/-0.000 χ^2/NDF : 430231686.2/34

Left Out: -0.852+/-0.000 χ^2/NDF :189276591.7/24

Right Out: -1.021+/-0.000 χ^2/NDF : 581090074.7/38

Left In: -0.849+/-0.000 χ^2/NDF :256438306.8/22

Left: -0.850+/-0.000 χ^2/NDF : 445849768.4/47

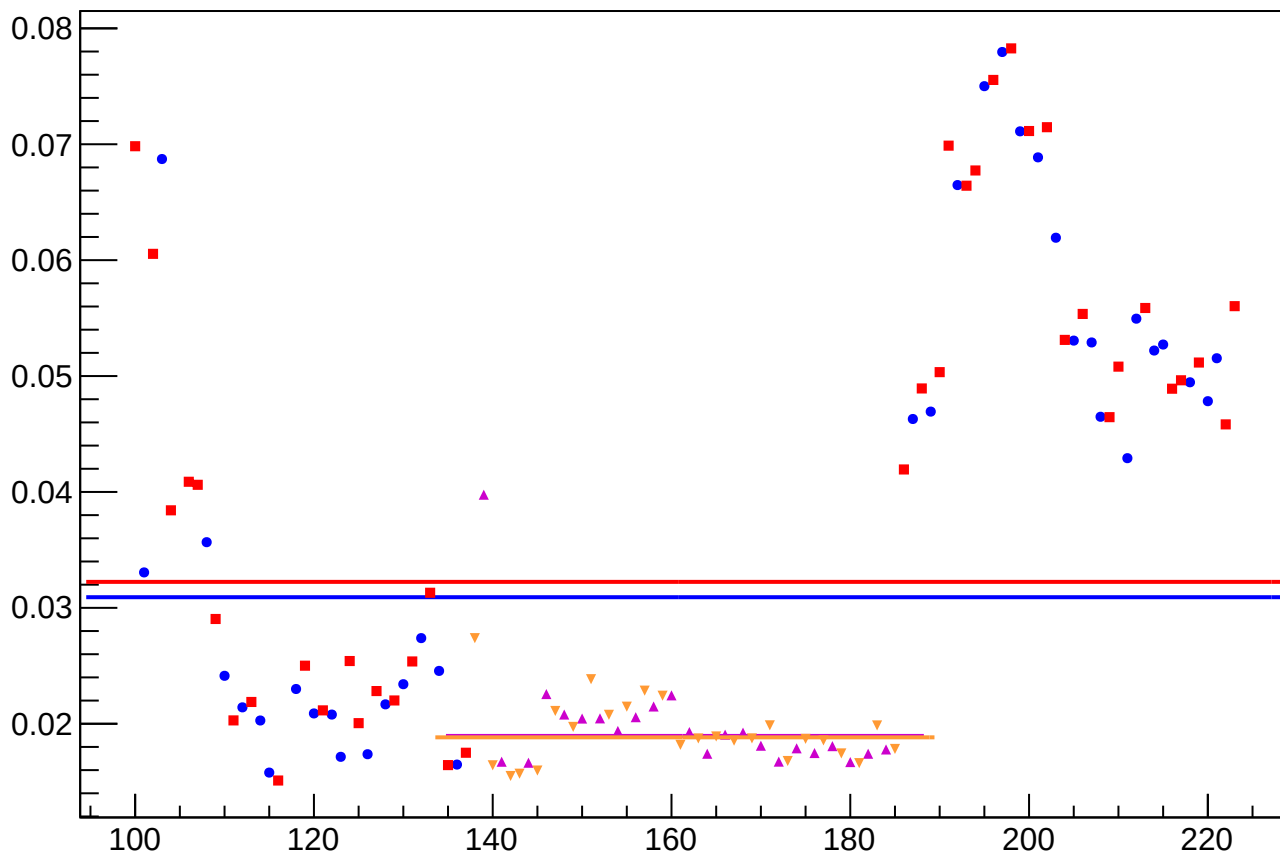
Right: -1.012+/-0.000 χ^2/NDF : 1013638869.7/73

In: -0.892+/-0.000 χ^2/NDF :944733726.8/57

Out: -0.895+/-0.000 χ^2/NDF :1079803560.2/63

All: -0.893+/-0.000 χ^2/NDF : 2024855575.0/1

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 8212739.1/34

Left Out: 0.019+/-0.000 χ^2/NDF :490084.5/24

Right Out: 0.032+/-0.000 χ^2/NDF : 8002792.5/38

Left In: 0.019+/-0.000 χ^2/NDF :645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

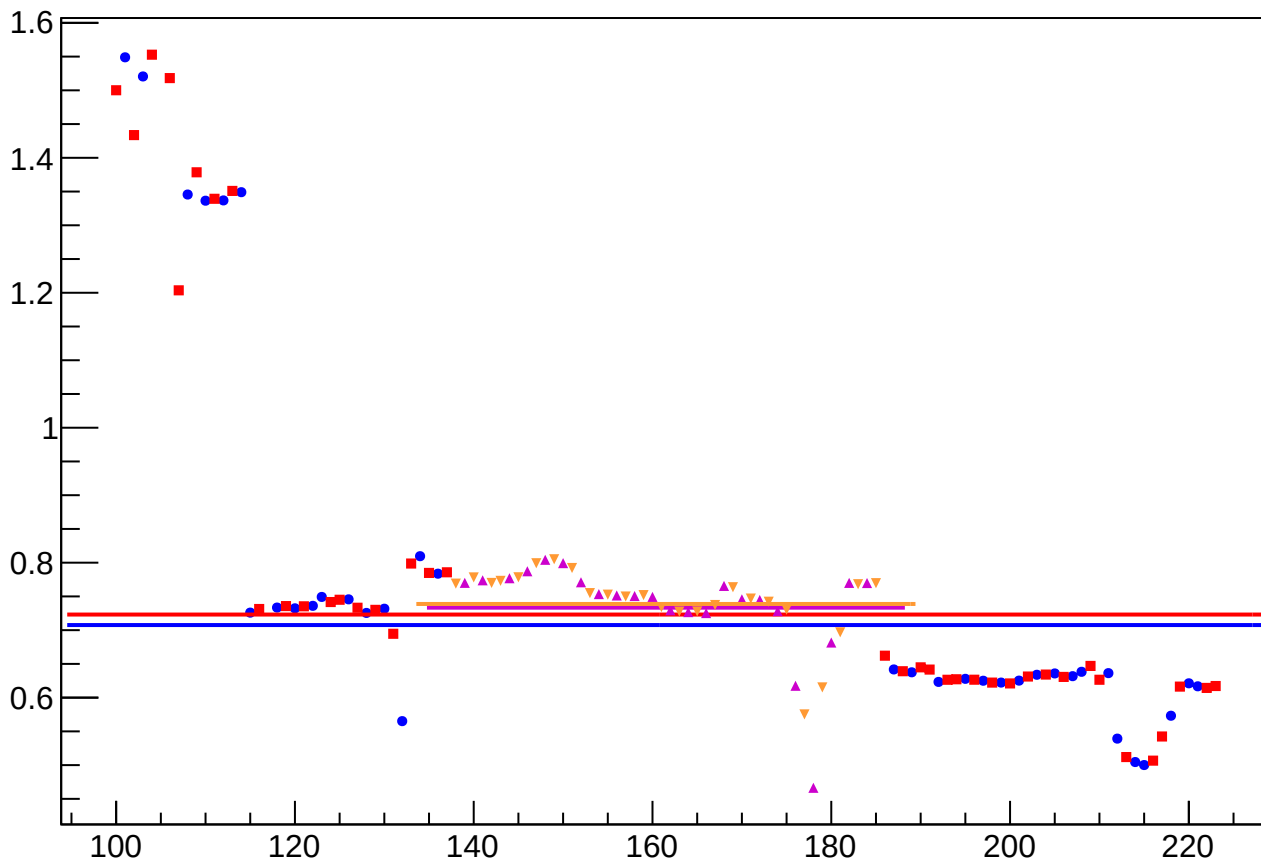
Right: 0.032+/-0.000 χ^2/NDF : 16241323.3/73

In: 0.022+/-0.000 χ^2/NDF :11960739.9/57

Out: 0.022+/-0.000 χ^2/NDF :12368006.4/63

All: 0.022+/-0.000 χ^2/NDF : 24328752.3/121

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.708 $\pm$ 0.000 χ^2 /NDF: 3947496923.0/34

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF: 333086309.0/24

Right Out: 0.723 $\pm$ 0.000 χ^2 /NDF: 4270781351.8/38

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF: 570264411.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 905100069.4/47

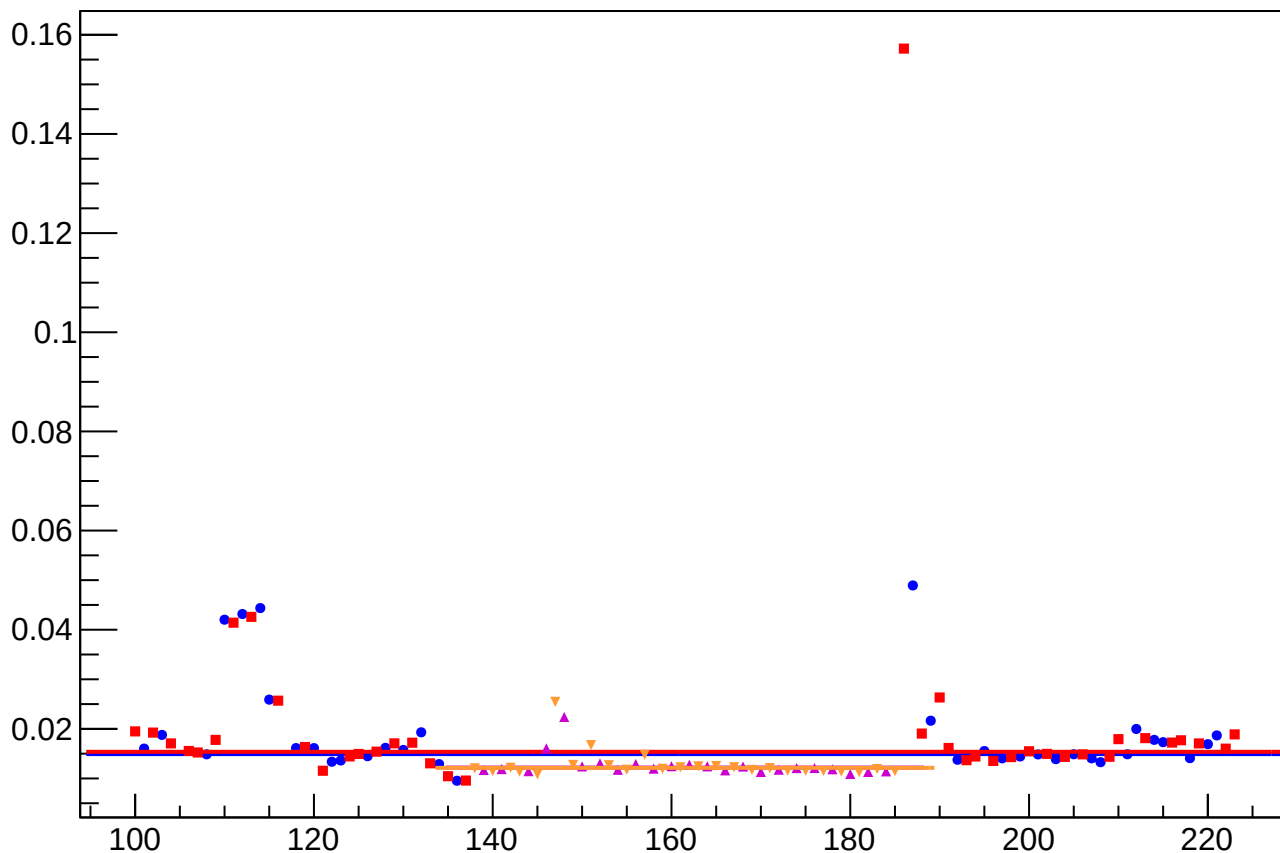
Right: 0.715 $\pm$ 0.000 χ^2 /NDF: 8227938315.2/73

In: 0.723 $\pm$ 0.000 χ^2 /NDF: 4549090212.5/57

Out: 0.733 $\pm$ 0.000 χ^2 /NDF: 4615533701.7/63

All: 0.728 $\pm$ 0.000 χ^2 /NDF: 9174468274.2/12

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1948338.1/34

Left Out: 0.012+/-0.000 χ^2/NDF : 638211.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2252582.3/38

Left In: 0.012+/-0.000 χ^2/NDF : 481639.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1120132.0/47

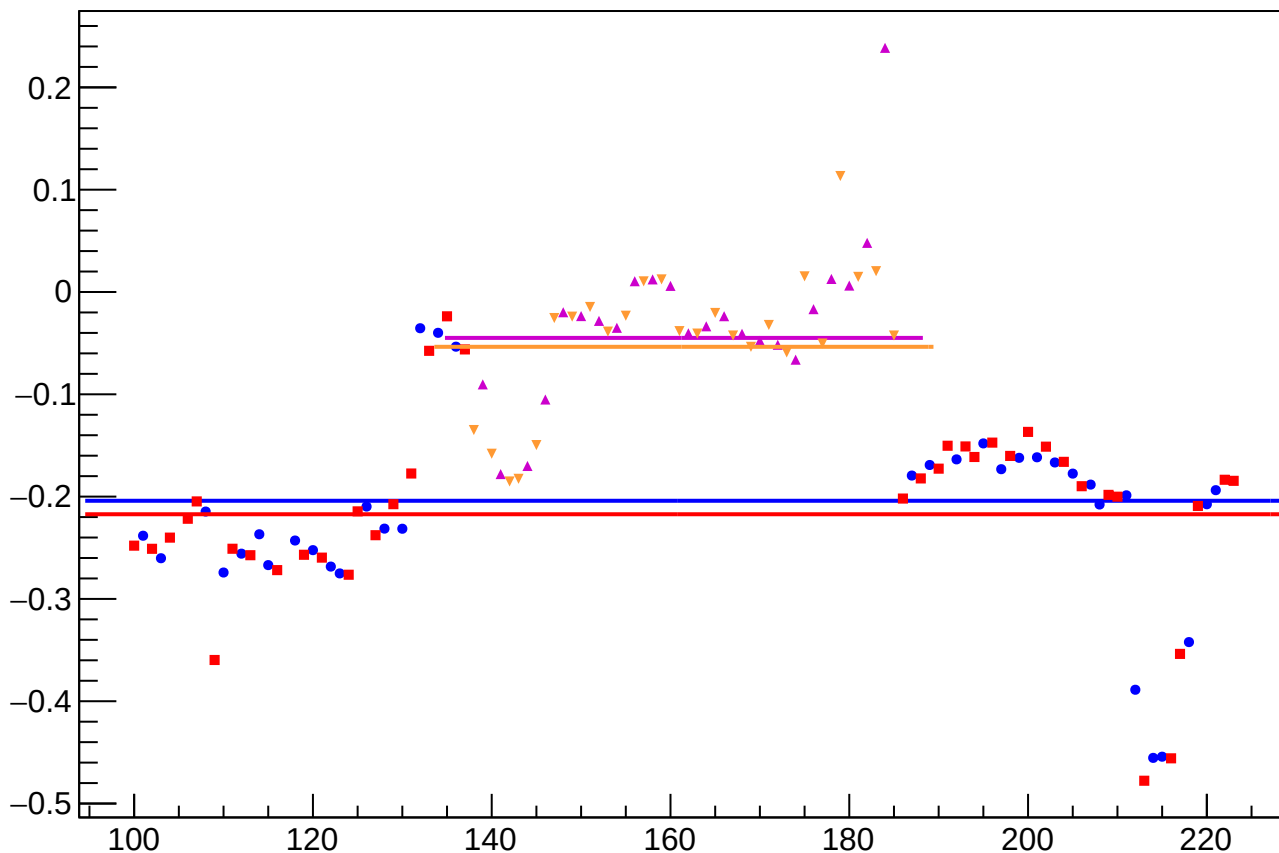
Right: 0.015+/-0.000 χ^2/NDF : 4217876.7/73

In: 0.013+/-0.000 χ^2/NDF : 3130342.6/57

Out: 0.013+/-0.000 χ^2/NDF : 3883123.2/63

All: 0.013+/-0.000 χ^2/NDF : 7015268.2/121

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.204 $\pm$ 0.000 χ^2 /NDF: 160351143.0/34

Left Out: -0.054 $\pm$ 0.000 χ^2 /NDF: 167879648.0/24

Right Out: -0.217 $\pm$ 0.000 χ^2 /NDF: 156111875.0/38

Left In: -0.045 $\pm$ 0.000 χ^2 /NDF: 127324000.1/22

Left: -0.049 $\pm$ 0.000 χ^2 /NDF: 296677486.5/47

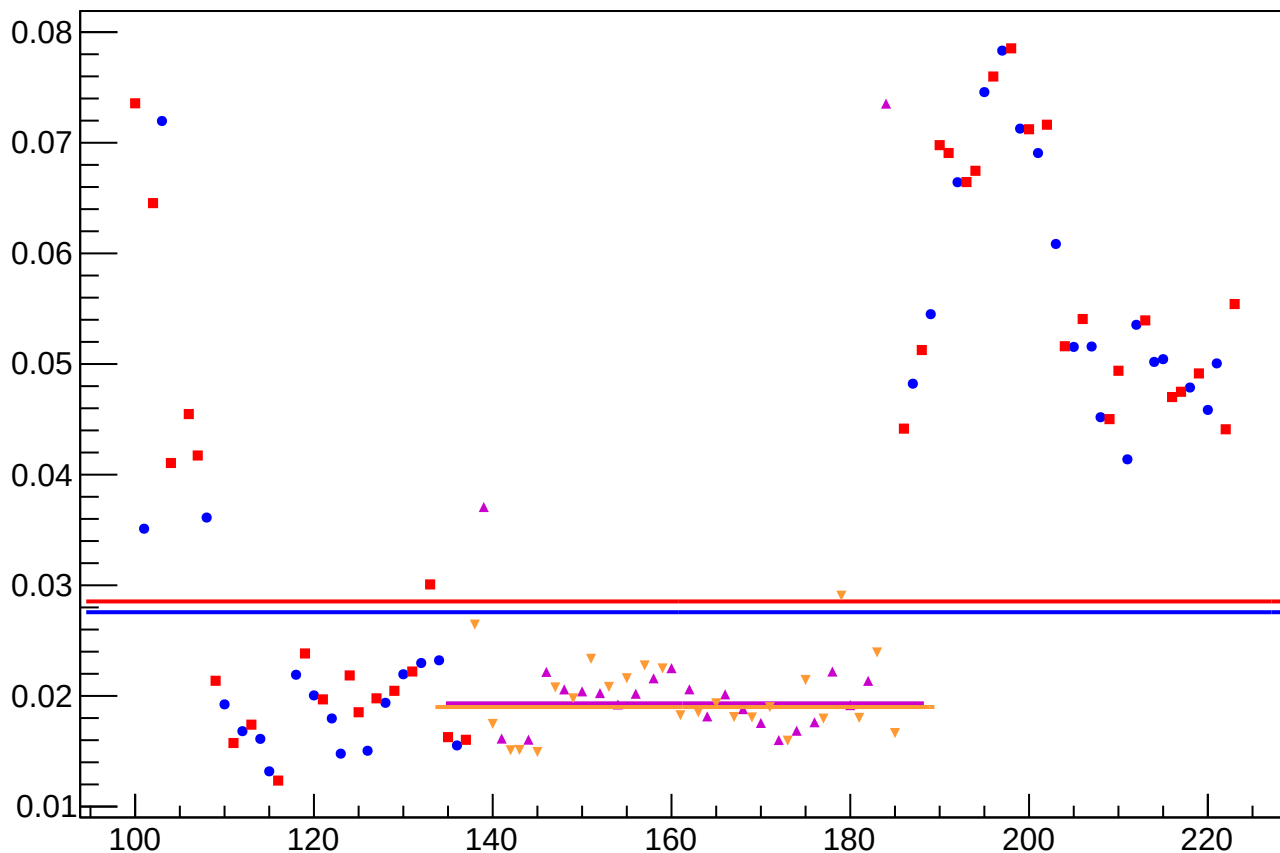
Right: -0.211 $\pm$ 0.000 χ^2 /NDF: 317989731.8/73

In: -0.096 $\pm$ 0.000 χ^2 /NDF: 593778651.2/57

Out: -0.103 $\pm$ 0.000 χ^2 /NDF: 649509540.4/63

All: -0.100 $\pm$ 0.000 χ^2 /NDF: 1244371628.0/1

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.000 χ^2 /NDF: 9701132.4/34

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:699267.5/24

Right Out: 0.029 $\pm$ 0.000 χ^2 /NDF: 9878739.9/38

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

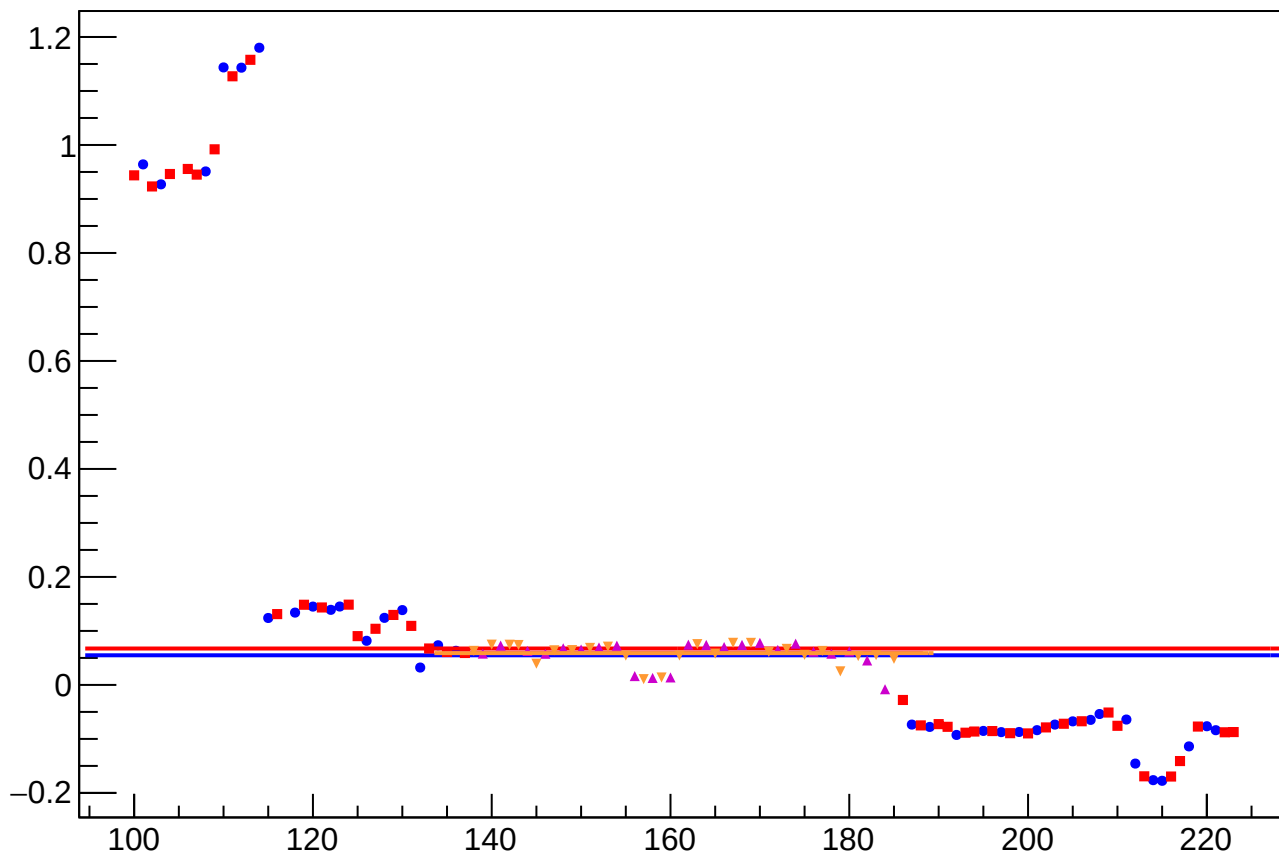
Right: 0.028 $\pm$ 0.000 χ^2 /NDF: 19596565.5/73

In: 0.022 $\pm$ 0.000 χ^2 /NDF:12232708.0/57

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:12791978.4/63

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 25025815.9/121

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.055+/-0.000 χ^2/NDF : 8909469497.5/34

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.067+/-0.000 χ^2/NDF : 9835701025.8/38

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

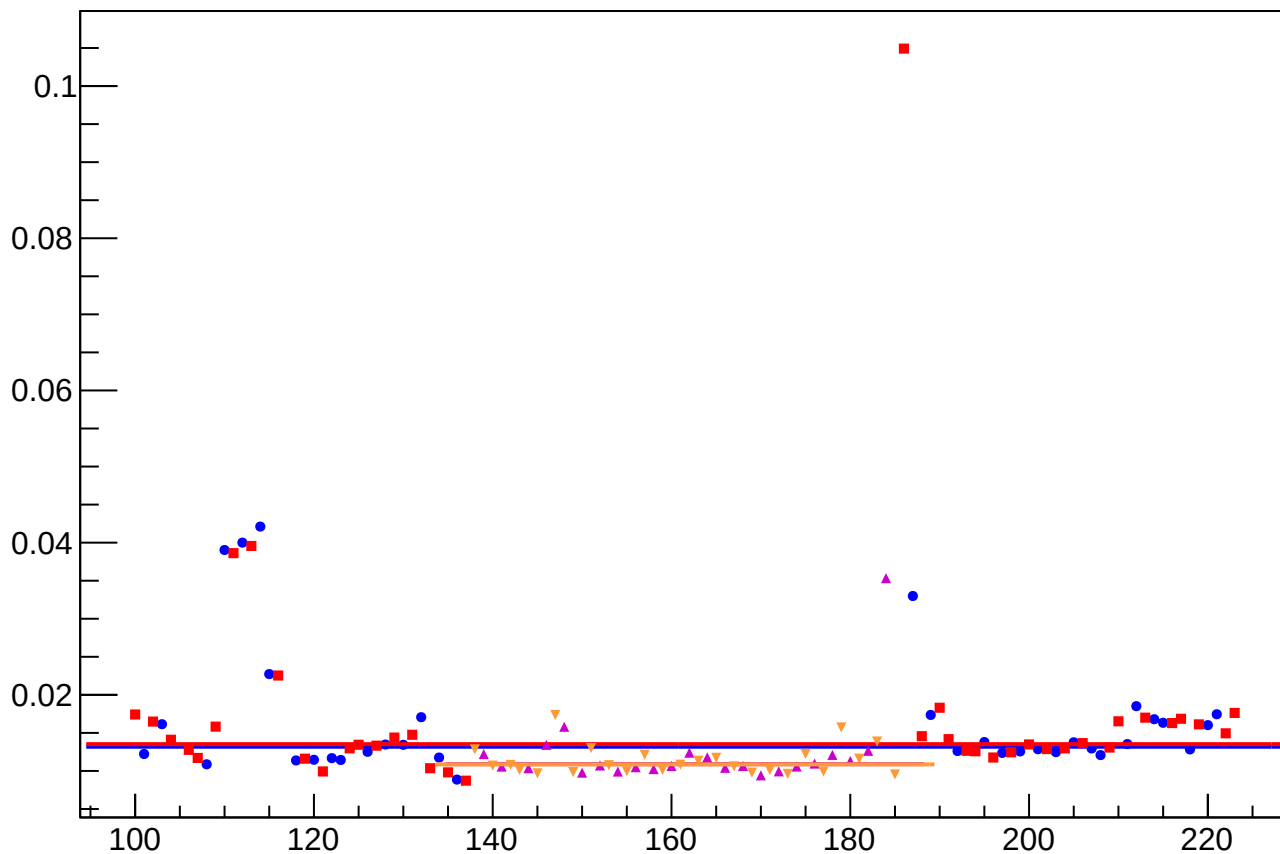
Right: 0.061+/-0.000 χ^2/NDF : 18753220692.1/73

In: 0.057+/-0.000 χ^2/NDF : 8969203520.3/57

Out: 0.062+/-0.000 χ^2/NDF : 9886935262.9/63

All: 0.060+/-0.000 χ^2/NDF : 18859266277.8/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1949543.3/34

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2246319.4/38

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

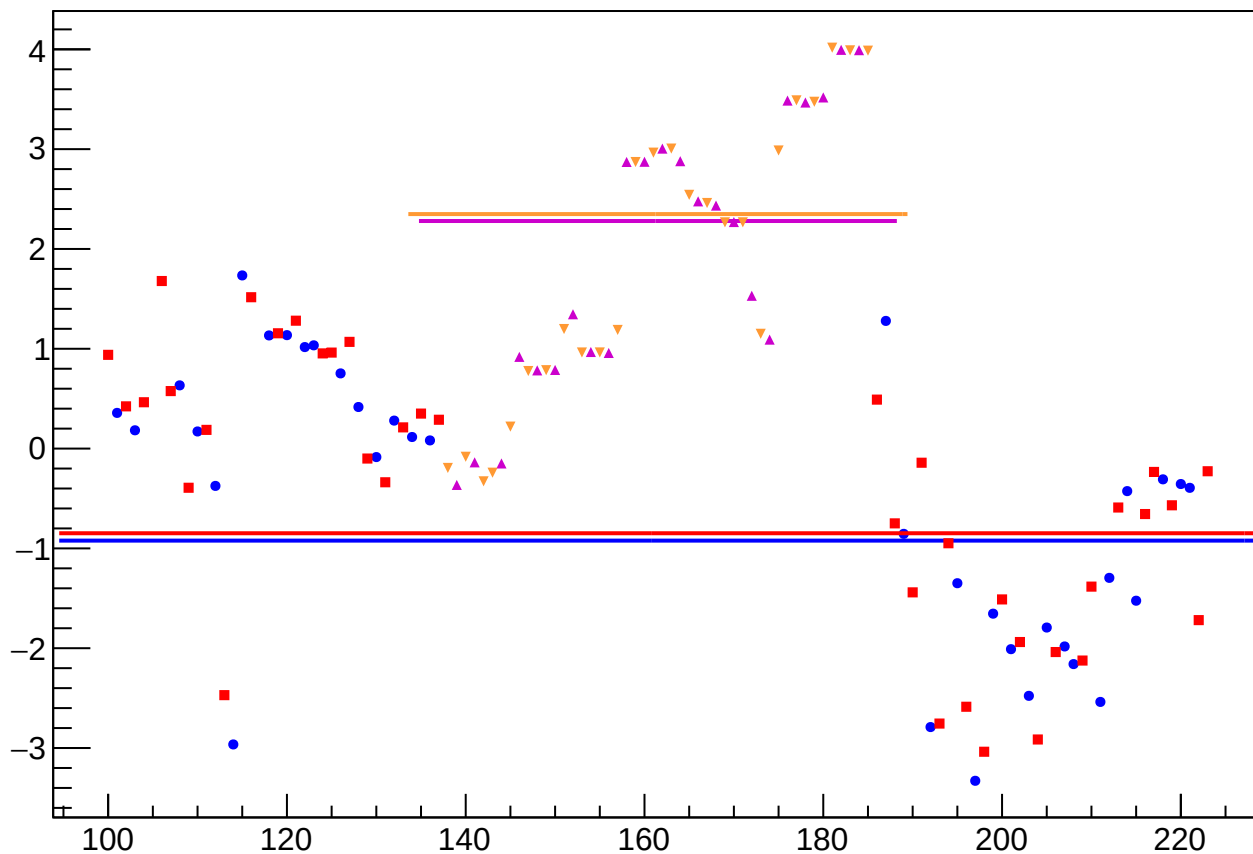
Right: 0.013+/-0.000 χ^2/NDF : 4207467.9/73

In: 0.012+/-0.000 χ^2/NDF : 3098446.8/57

Out: 0.012+/-0.000 χ^2/NDF : 3690369.3/63

All: 0.012+/-0.000 χ^2/NDF : 6790398.4/121

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.922 ± 0.000 $\chi^2/\text{NDF}: 8221794277.6/34$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.848 ± 0.000 $\chi^2/\text{NDF}: 8611297525.2/38$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

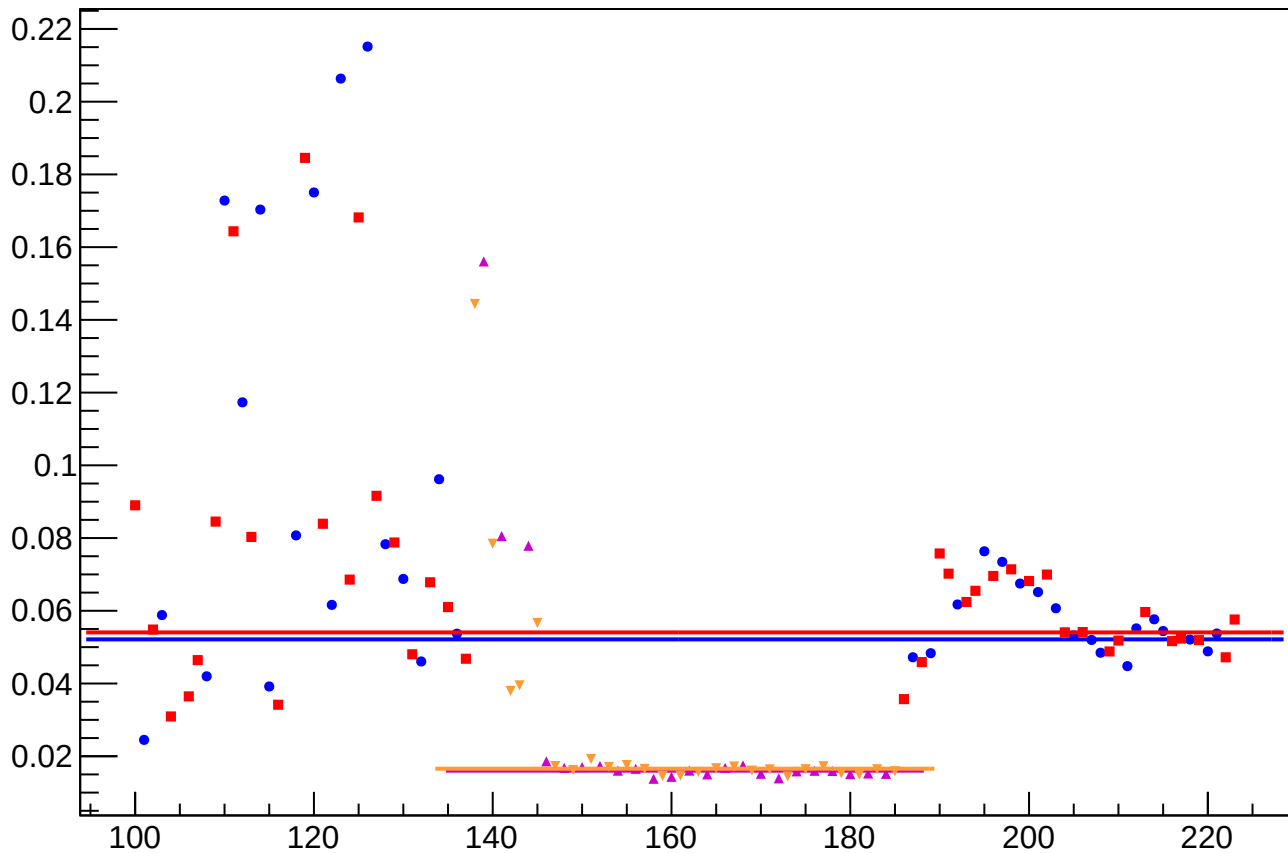
Right: -0.885 ± 0.000 $\chi^2/\text{NDF}: 16848732346.5/73$

In: 1.960 ± 0.000 $\chi^2/\text{NDF}: 123136881401.3/57$

Out: 2.029 ± 0.000 $\chi^2/\text{NDF}: 124552996194.0/63$

All: 1.994 ± 0.000 $\chi^2/\text{NDF}: 247826558161.9$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3534701.7/34

Left Out: 0.017+/-0.000 χ^2/NDF :2623615.6/24

Right Out: 0.054+/-0.000 χ^2/NDF : 2922068.0/38

Left In: 0.016+/-0.000 χ^2/NDF :2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

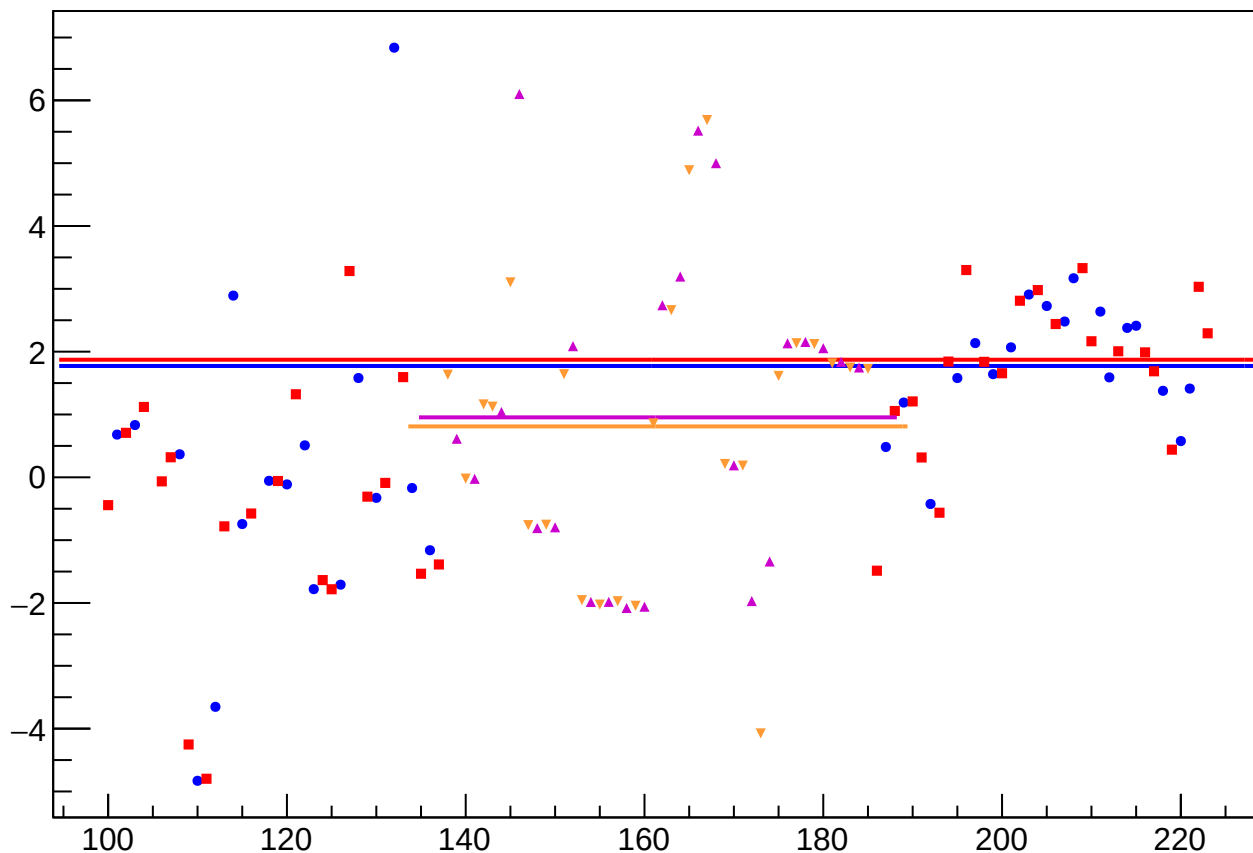
Right: 0.053+/-0.000 χ^2/NDF : 6477788.5/73

In: 0.020+/-0.000 χ^2/NDF :19597385.0/57

Out: 0.020+/-0.000 χ^2/NDF :19924991.6/63

All: 0.020+/-0.000 χ^2/NDF : 39549834.3/121

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.772 $\pm$ 0.000

χ^2 /NDF: 44246105771.5/34

Left: 0.883 $\pm$ 0.000 χ^2 /NDF: 1083260277372.9/47

Right: 1.821 $\pm$ 0.000 χ^2 /NDF: 92221995086.6/73

Left Out: 0.810 $\pm$ 0.000

χ^2 /NDF: 507583198570.2/24

In: 1.206 $\pm$ 0.000 χ^2 /NDF: 636694485326.2/57

Right Out: 1.872 $\pm$ 0.000

χ^2 /NDF: 47789358526.9/38

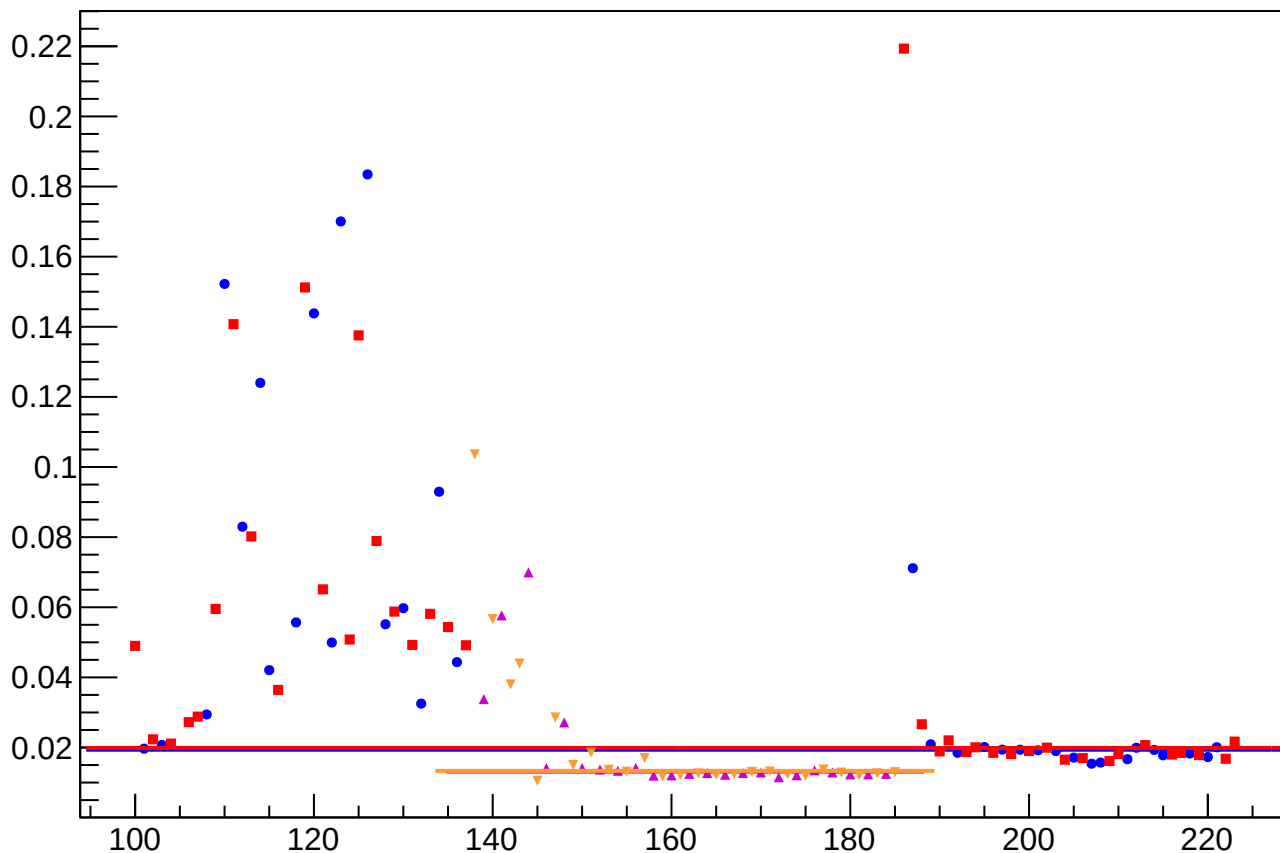
Out: 1.132 $\pm$ 0.000 χ^2 /NDF: 584467613694.8/63

Left In: 0.954 $\pm$ 0.000

χ^2 /NDF: 574792794608.3/22

All: 1.170 $\pm$ 0.000 χ^2 /NDF: 1221497703398.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 4157248.7/34

Left Out: 0.013+/-0.000 χ^2/NDF : 2829070.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5283403.9/38

Left In: 0.013+/-0.000 χ^2/NDF : 1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

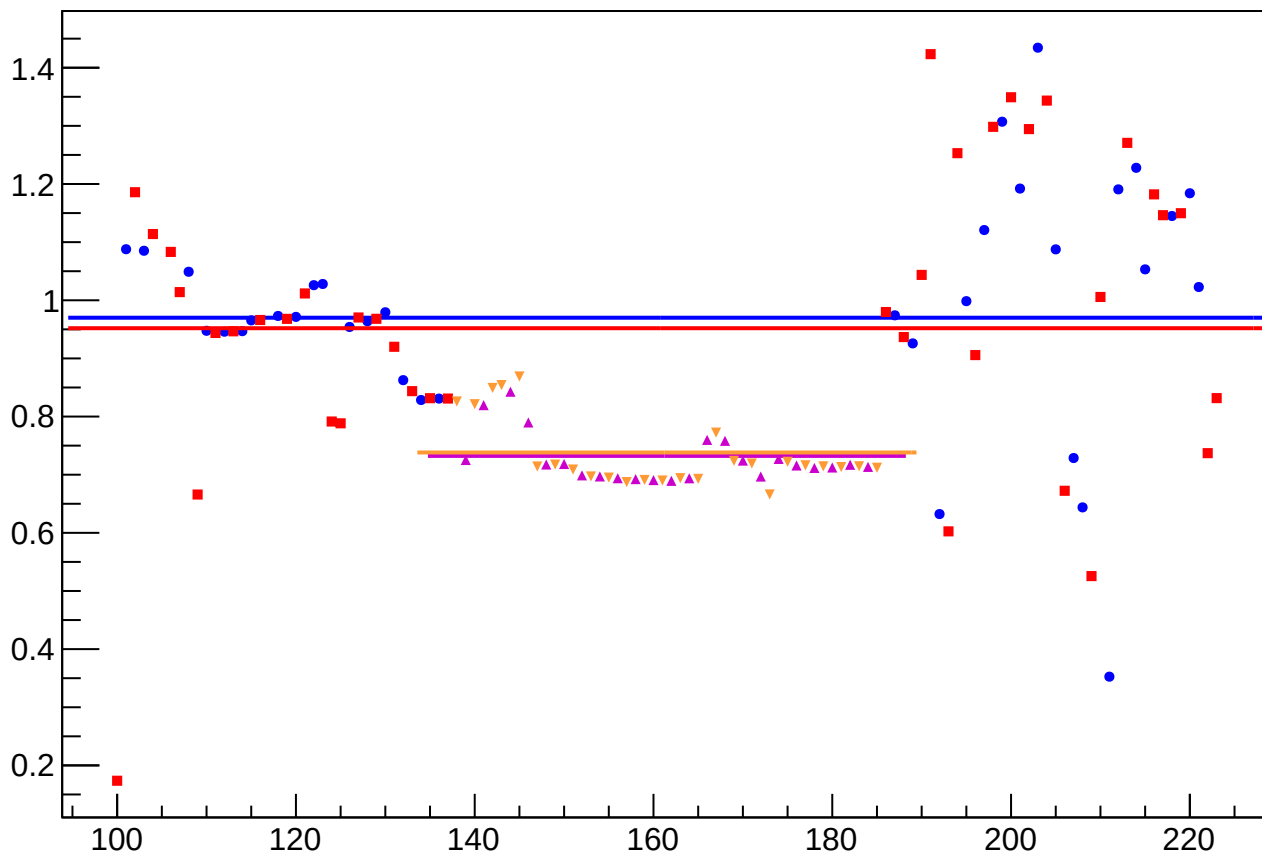
Right: 0.020+/-0.000 χ^2/NDF : 9450156.3/73

In: 0.015+/-0.000 χ^2/NDF : 8179024.7/57

Out: 0.015+/-0.000 χ^2/NDF : 10317691.0/63

All: 0.015+/-0.000 χ^2/NDF : 18505446.9/121

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.970 $\pm$ 0.000 χ^2 /NDF: 1087302469.8/34

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF: 310610047.7/24

Right Out: 0.952 $\pm$ 0.000 χ^2 /NDF: 1405531305.3/38

Left In: 0.732 $\pm$ 0.000 χ^2 /NDF: 170806298.1/22

Left: 0.735 $\pm$ 0.000 χ^2 /NDF: 482865670.9/47

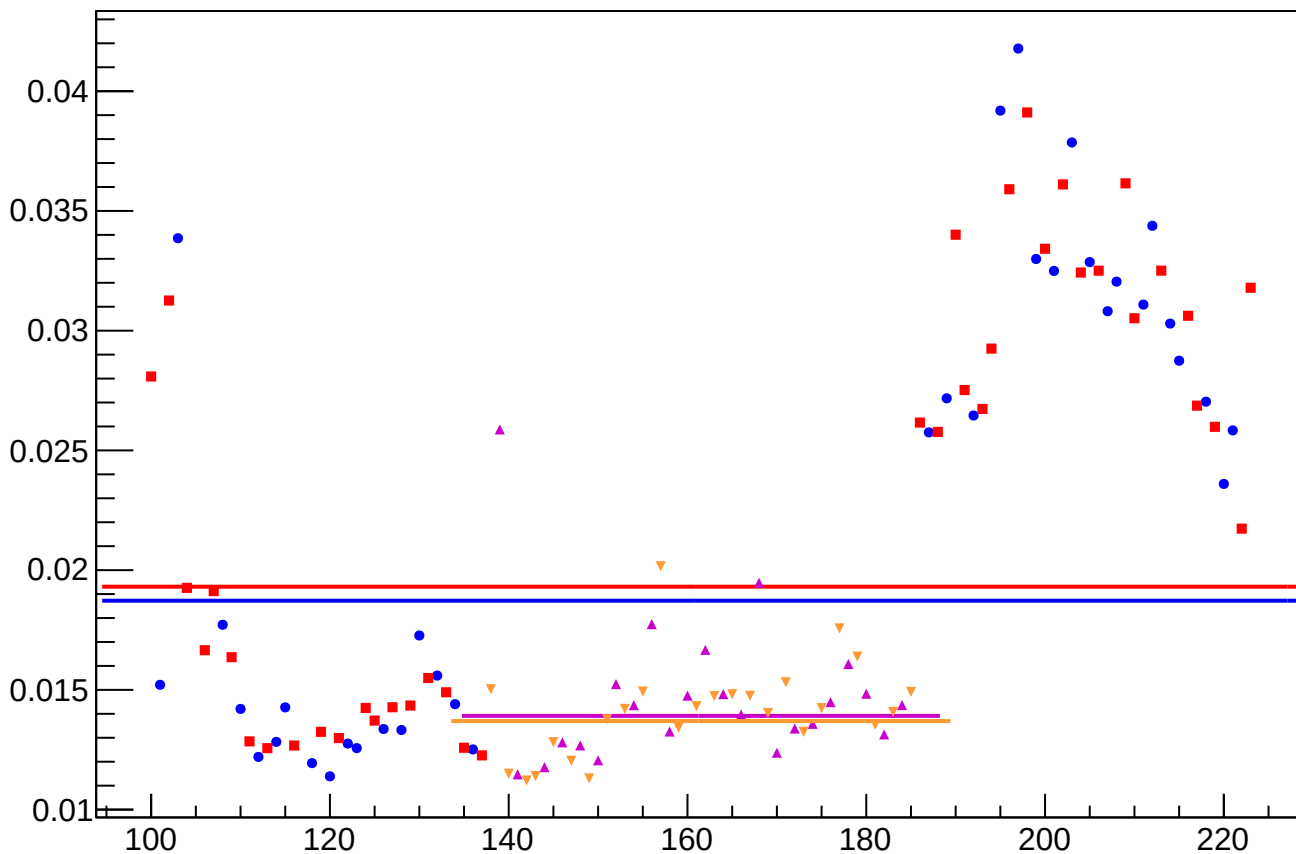
Right: 0.961 $\pm$ 0.000 χ^2 /NDF: 2499962873.0/73

In: 0.816 $\pm$ 0.000 χ^2 /NDF: 2858475962.6/57

Out: 0.810 $\pm$ 0.000 χ^2 /NDF: 3043076753.5/63

All: 0.813 $\pm$ 0.000 χ^2 /NDF: 5903898177.3/120

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 5936251.6/34

Left Out: 0.014+/-0.000 χ^2/NDF : 530851.9/24

Right Out: 0.019+/-0.000 χ^2/NDF : 5353418.6/38

Left In: 0.014+/-0.000 χ^2/NDF : 794558.0/22

Left: 0.014+/-0.000 χ^2/NDF : 1329255.3/47

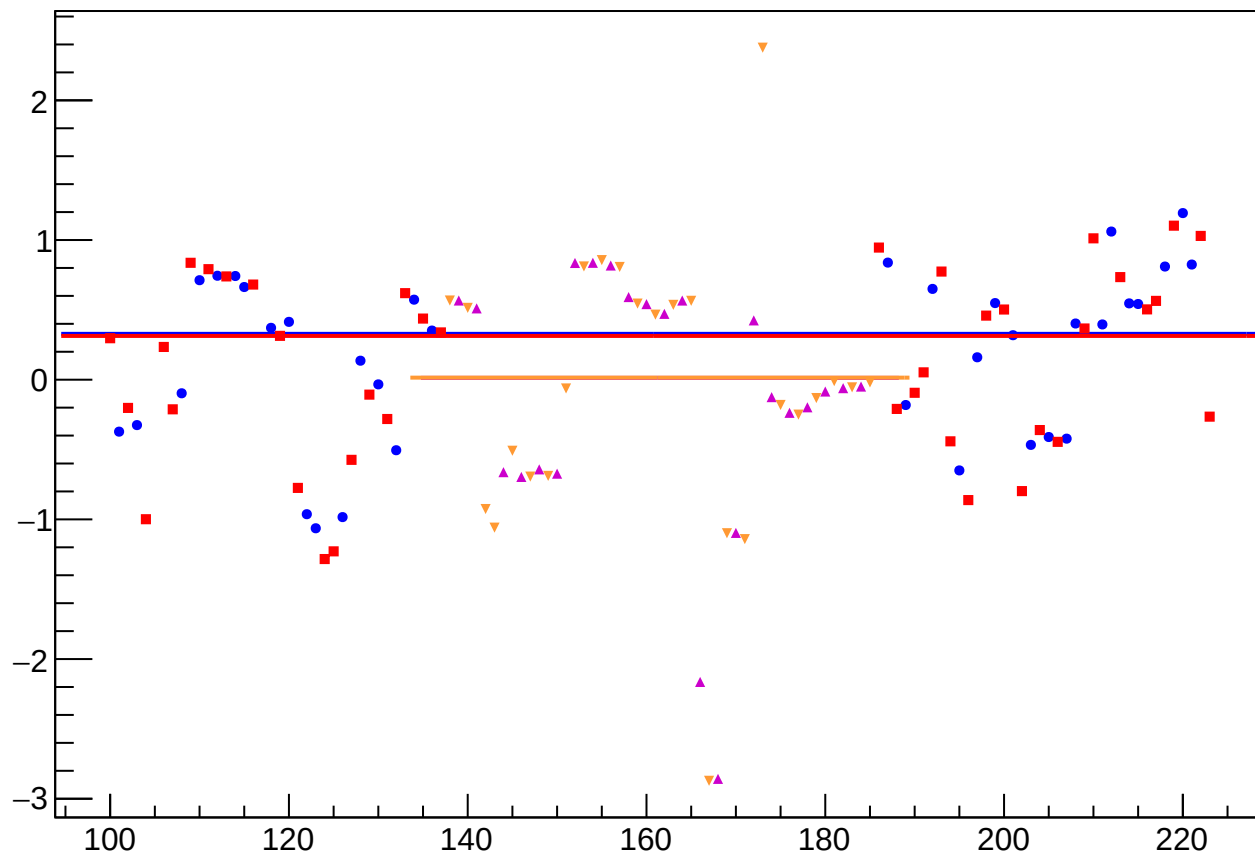
Right: 0.019+/-0.000 χ^2/NDF : 11304693.1/73

In: 0.016+/-0.000 χ^2/NDF : 8041960.5/57

Out: 0.016+/-0.000 χ^2/NDF : 7713634.6/63

All: 0.016+/-0.000 χ^2/NDF : 15755676.6/121

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.328+/-0.000 χ^2/NDF : 46664370908.3/34

Left Out: 0.015+/-0.000 χ^2/NDF : 96087835995.8/24

Right Out: 0.313+/-0.000 χ^2/NDF : 56070676192.7/38

Left In: 0.013+/-0.000 χ^2/NDF : 79445696658.6/22

Left: 0.014+/-0.000 χ^2/NDF : 175533691121.4/47

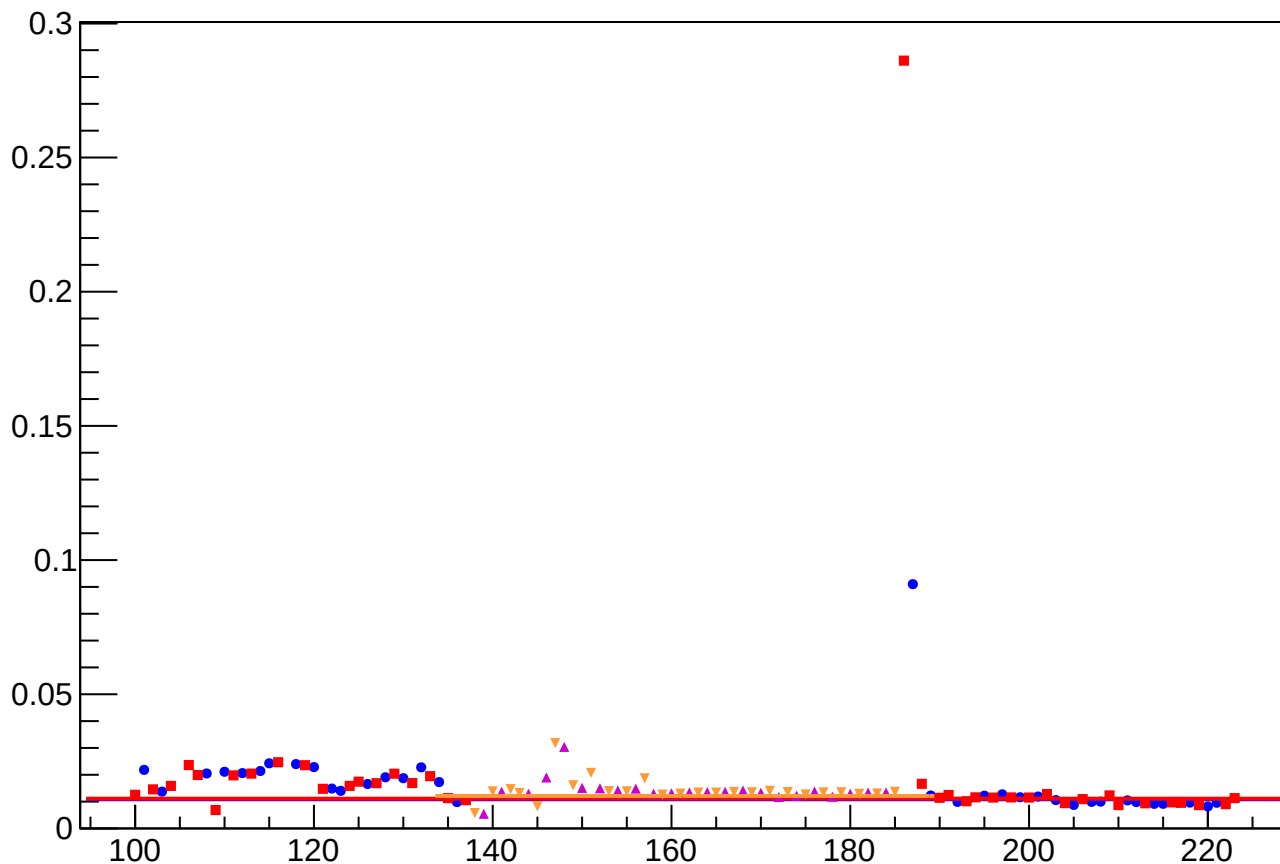
Right: 0.321+/-0.000 χ^2/NDF : 102750399033.5/73

In: 0.193+/-0.000 χ^2/NDF : 132131041030.7/57

Out: 0.181+/-0.000 χ^2/NDF : 157608347305.5/63

All: 0.187+/-0.000 χ^2/NDF : 289754415765.0

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2850140.7/34

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3310624.2/38

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

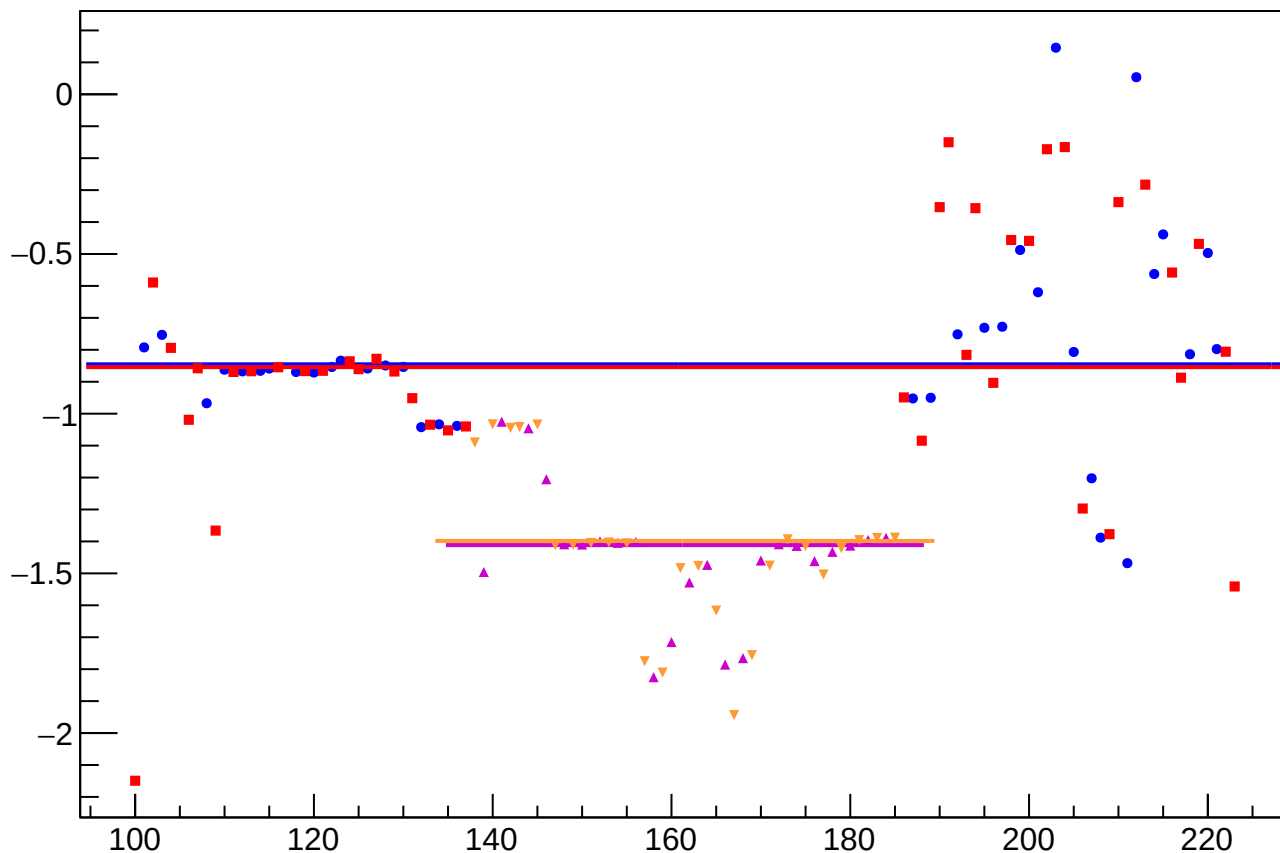
Right: 0.011+/-0.000 χ^2/NDF : 6167038.0/73

In: 0.011+/-0.000 χ^2/NDF :6089094.2/57

Out: 0.012+/-0.000 χ^2/NDF :6546291.5/63

All: 0.011+/-0.000 χ^2/NDF : 12646616.2/121

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.845 ± 0.000 χ^2/NDF : 398159152.7/34

Left Out: -1.398 ± 0.000 χ^2/NDF : 734579404.3/24

Right Out: -0.854 ± 0.000 χ^2/NDF : 539359896.5/38

Left In: -1.412 ± 0.000 χ^2/NDF : 512629872.4/22

Left: -1.405 ± 0.000 χ^2/NDF : 1248268857.1/47

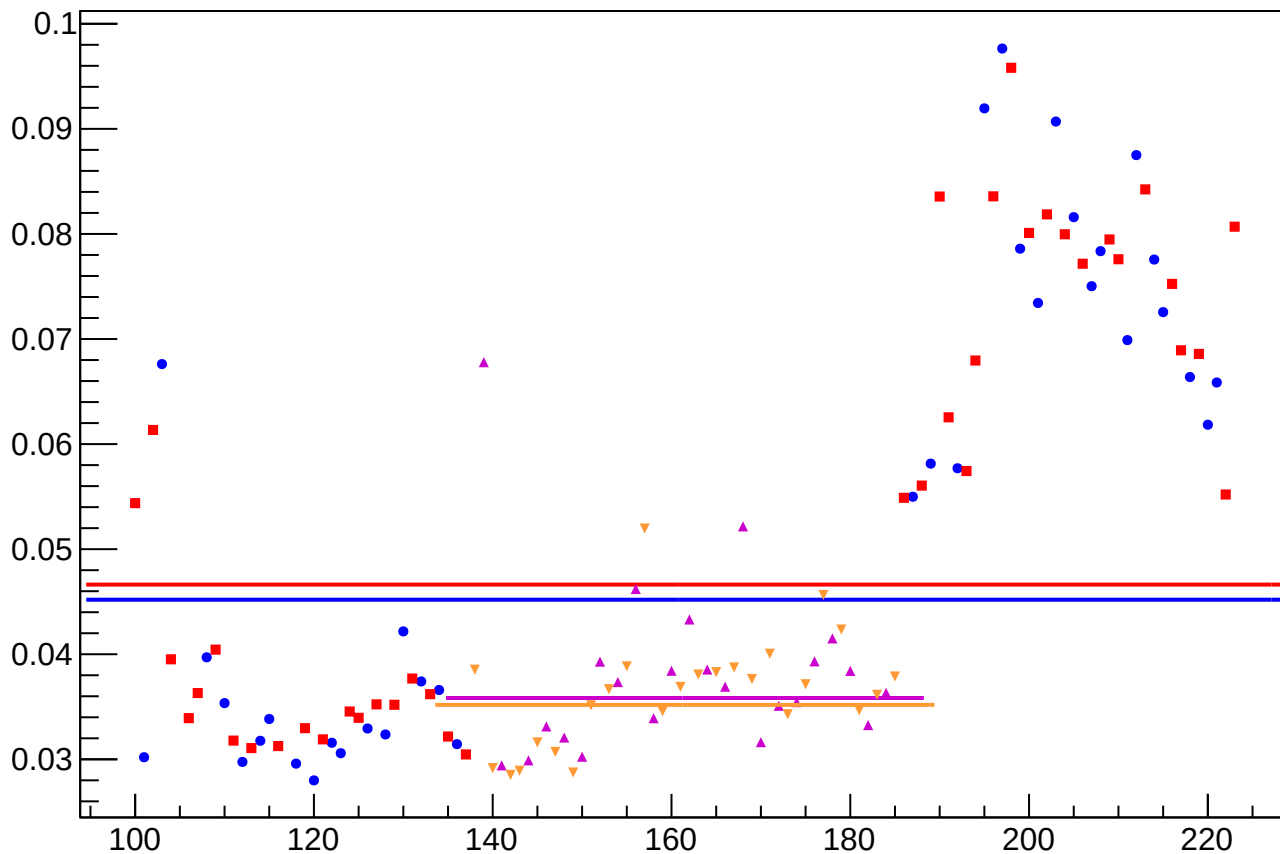
Right: -0.850 ± 0.000 χ^2/NDF : 937815015.3/73

In: -1.191 ± 0.000 χ^2/NDF : 2402653831.0/57

Out: -1.198 ± 0.000 χ^2/NDF : 2692986062.1/63

All: -1.195 ± 0.000 χ^2/NDF : 5096024220.5/1

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.045 $\pm$ 0.000 χ^2/NDF : 5848702.4/34

Left Out: 0.035 $\pm$ 0.000 χ^2/NDF : 597886.0/24

Right Out: 0.047 $\pm$ 0.000 χ^2/NDF : 5061798.9/38

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

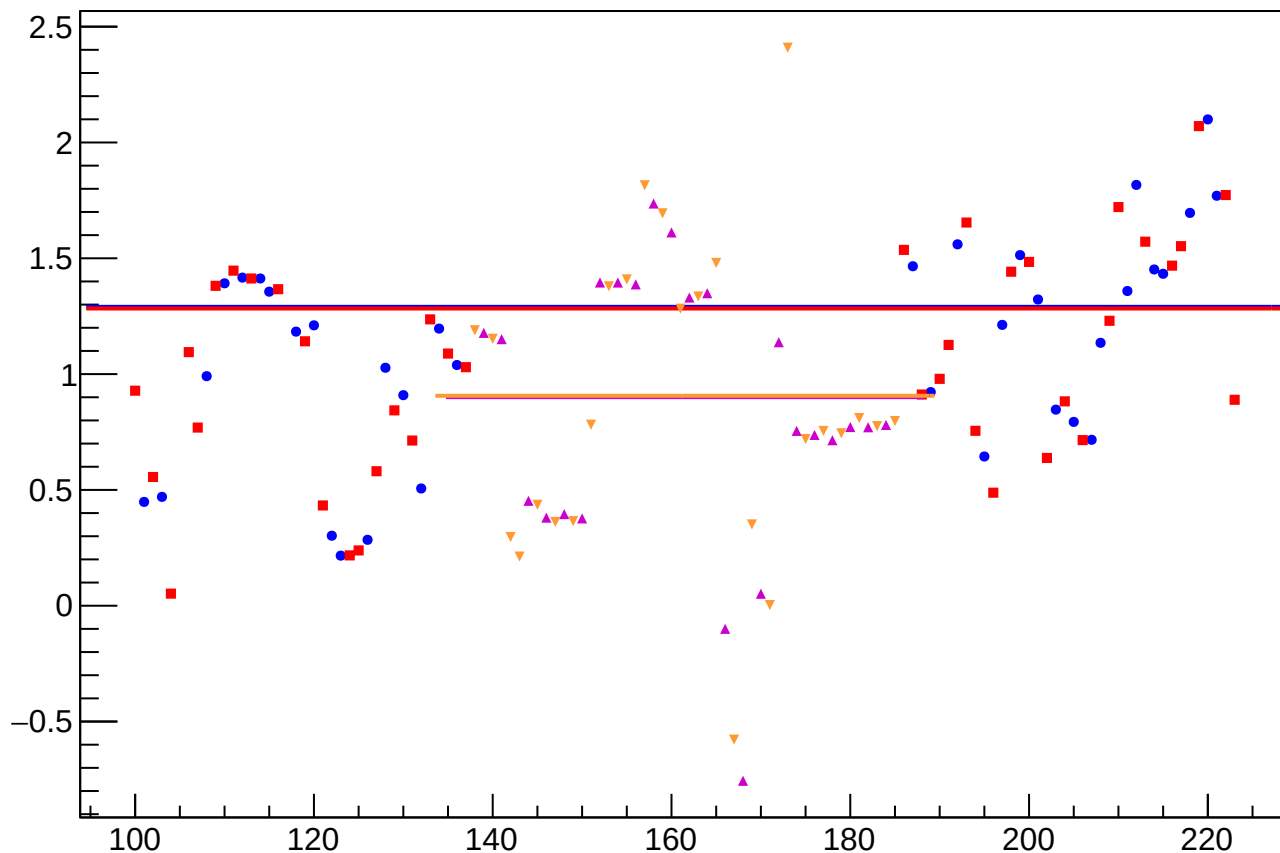
Right: 0.046 $\pm$ 0.000 χ^2/NDF : 10926236.9/73

In: 0.039 $\pm$ 0.000 χ^2/NDF : 7554407.8/57

Out: 0.039 $\pm$ 0.000 χ^2/NDF : 6915860.9/63

All: 0.039 $\pm$ 0.000 χ^2/NDF : 14470362.1/121

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.290 $\pm$ 0.000

χ^2 /NDF: 80761472844.6/34

Left: 0.904 $\pm$ 0.000 χ^2 /NDF: 151044220035.9/47

Right: 1.287 $\pm$ 0.000 χ^2 /NDF: 159575587491.0/73

Left Out: 0.906 $\pm$ 0.000

χ^2 /NDF: 84108410196.2/24

In: 1.155 $\pm$ 0.000 χ^2 /NDF: 168270846158.1/57

Right Out: 1.283 $\pm$ 0.000

χ^2 /NDF: 78804789441.0/38

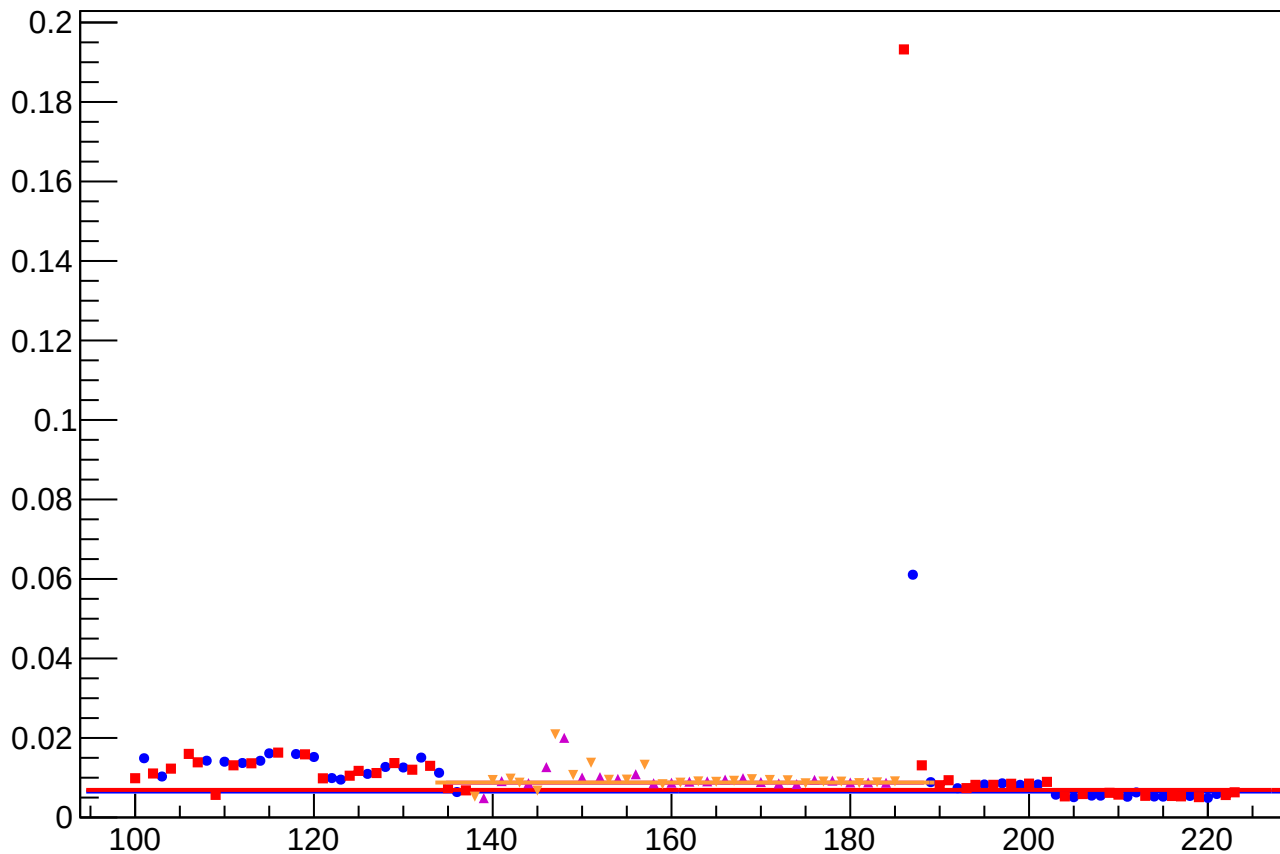
Out: 1.139 $\pm$ 0.000 χ^2 /NDF: 182088065496.8/63

Left In: 0.901 $\pm$ 0.000

χ^2 /NDF: 66932223067.8/22

All: 1.147 $\pm$ 0.000 χ^2 /NDF: 350432202140.7

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4003925.6/34

Left Out: 0.009+/-0.000 χ^2/NDF :1698526.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4419434.0/38

Left In: 0.009+/-0.000 χ^2/NDF :1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

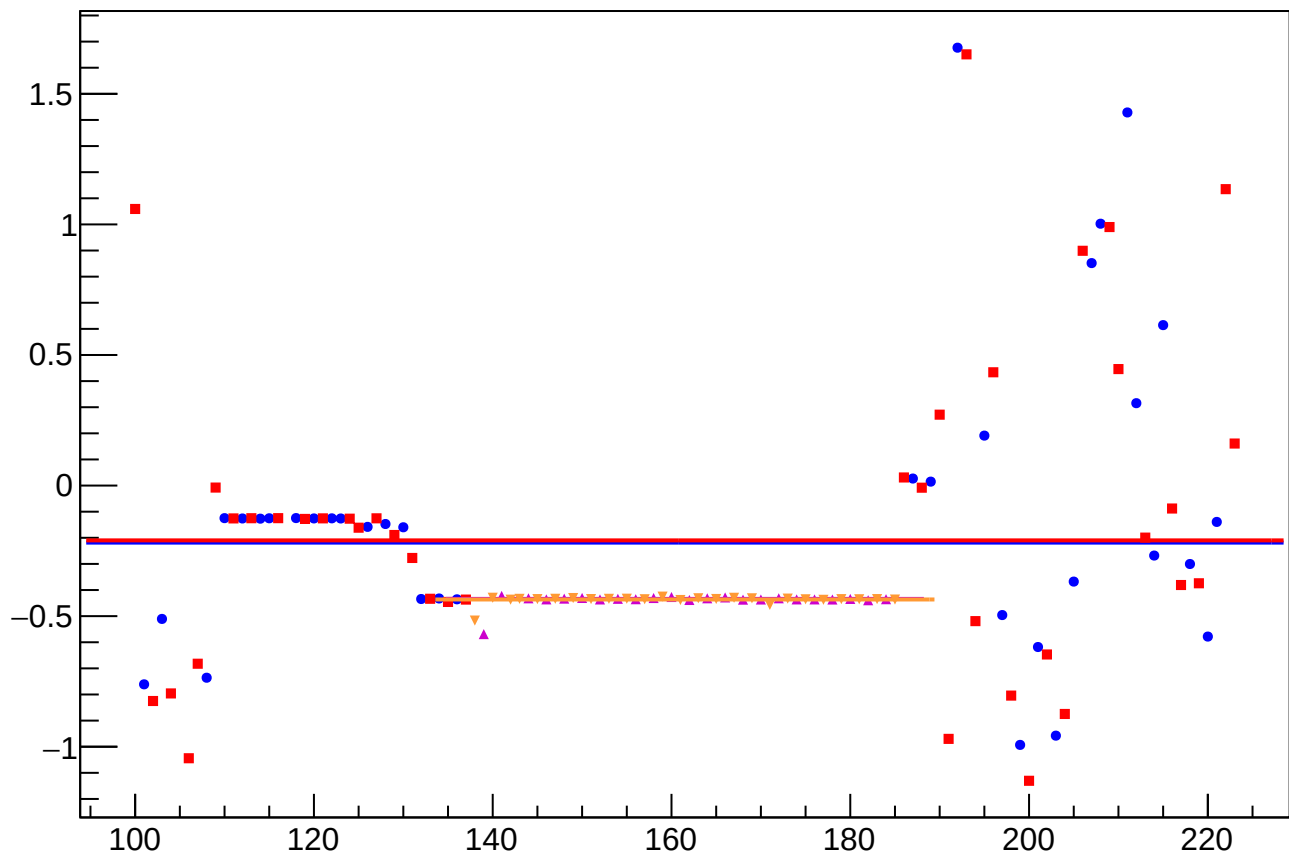
Right: 0.007+/-0.000 χ^2/NDF : 8484814.3/73

In: 0.007+/-0.000 χ^2/NDF :7002906.9/57

Out: 0.008+/-0.000 χ^2/NDF :7047672.8/63

All: 0.007+/-0.000 χ^2/NDF : 14121172.1/121

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.218+/-0.000 χ^2/NDF : 5049930763.5/34

Left Out: -0.436+/-0.000 χ^2/NDF : 28776503.9/24

Right Out: -0.210+/-0.000 χ^2/NDF : 4380148681.8/38

Left In: -0.434+/-0.000 χ^2/NDF : 20164730.3/22

Left: -0.435+/-0.000 χ^2/NDF : 49321098.5/47

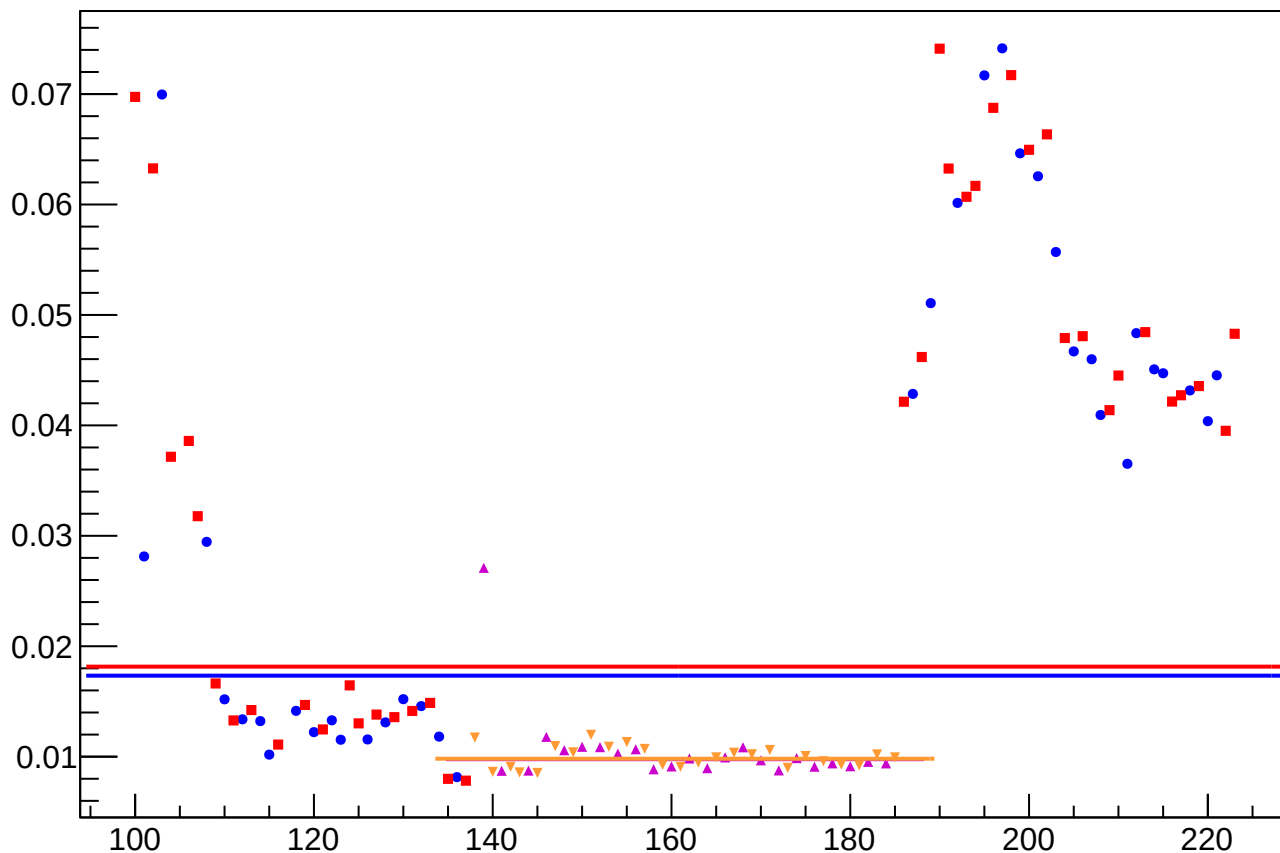
Right: -0.214+/-0.000 χ^2/NDF : 9431377275.5/73

In: -0.392+/-0.000 χ^2/NDF : 6452444216.7/57

Out: -0.396+/-0.000 χ^2/NDF : 5884704117.9/63

All: -0.394+/-0.000 χ^2/NDF : 12338617923.9/117

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.000 χ^2/NDF : 14318304.2/34

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF : 271172.3/24

Right Out: 0.018 $\pm$ 0.000 χ^2/NDF : 14546292.5/38

Left In: 0.010 $\pm$ 0.000 χ^2/NDF : 786577.8/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 1058038.1/47

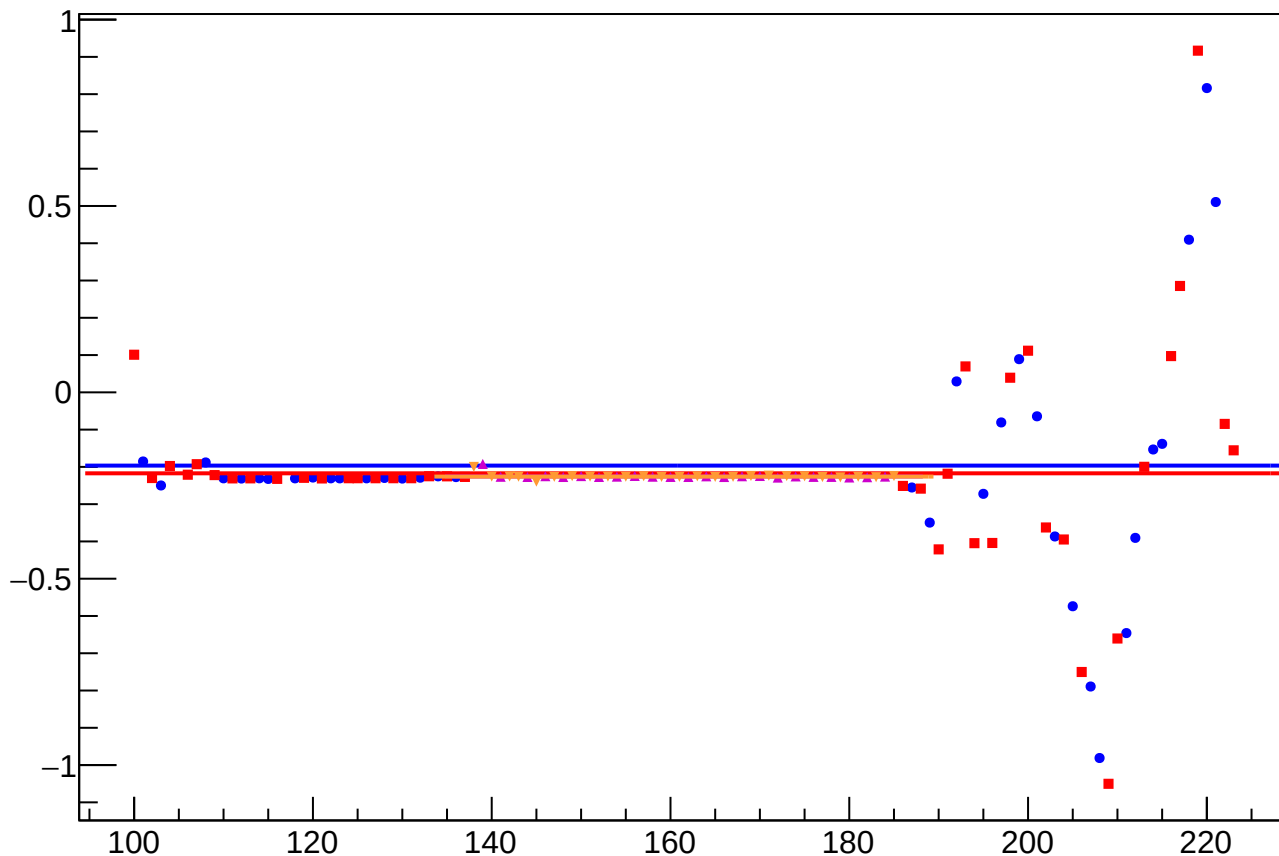
Right: 0.018 $\pm$ 0.000 χ^2/NDF : 28888594.1/73

In: 0.011 $\pm$ 0.000 χ^2/NDF : 18507094.3/57

Out: 0.011 $\pm$ 0.000 χ^2/NDF : 18824224.2/63

All: 0.011 $\pm$ 0.000 χ^2/NDF : 37331881.5/121

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.197+/-0.000 χ^2/NDF : 53949360474.5/34

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.217+/-0.000 χ^2/NDF : 47121478231.6/38

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

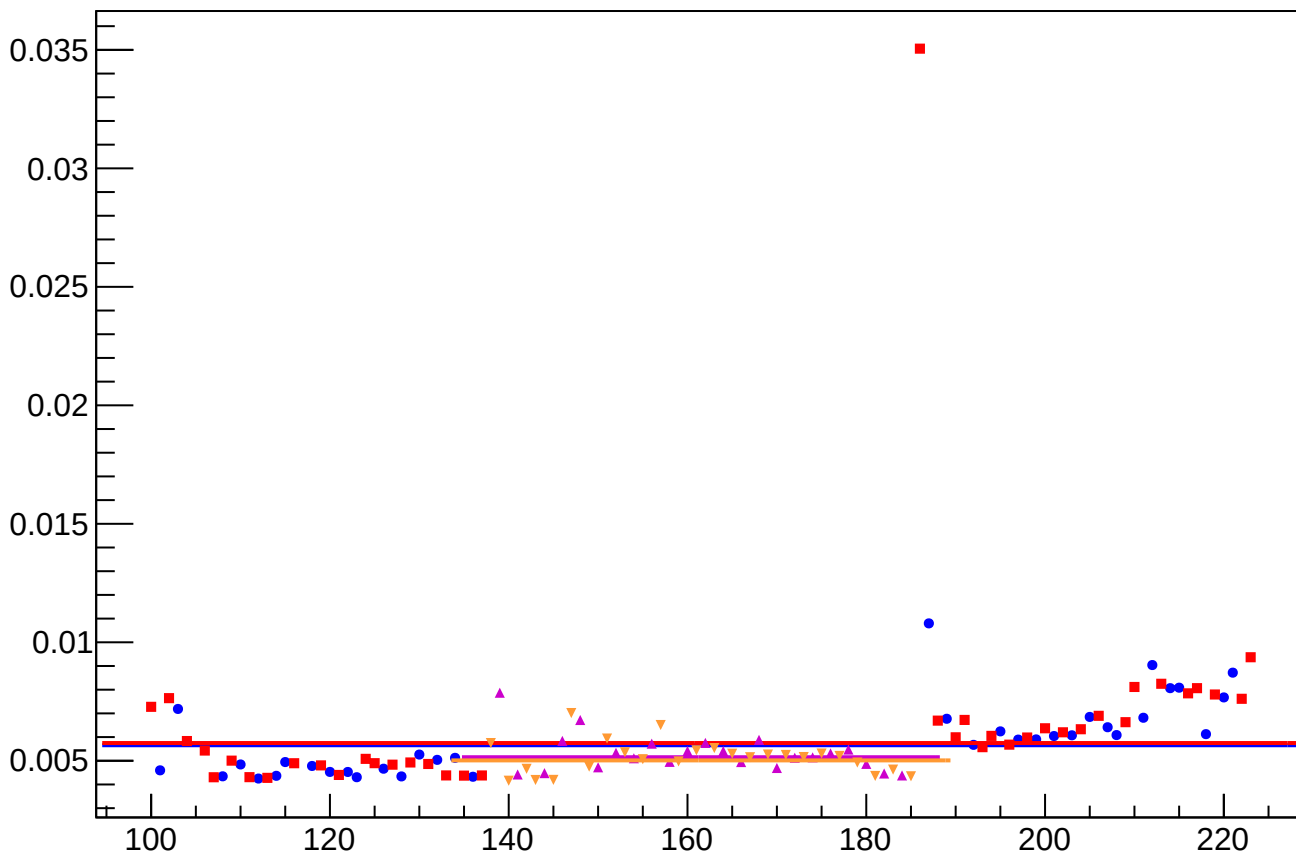
Right: -0.207+/-0.000 χ^2/NDF : 101189746651.0/73

In: -0.212+/-0.000 χ^2/NDF : 54211910823.2/57

Out: -0.222+/-0.000 χ^2/NDF : 47166330431.8/63

All: -0.217+/-0.000 χ^2/NDF : 101440373756.1

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 1711984.0/34

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:532623.0/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 2174370.2/38

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:504040.6/22

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 1048260.0/47

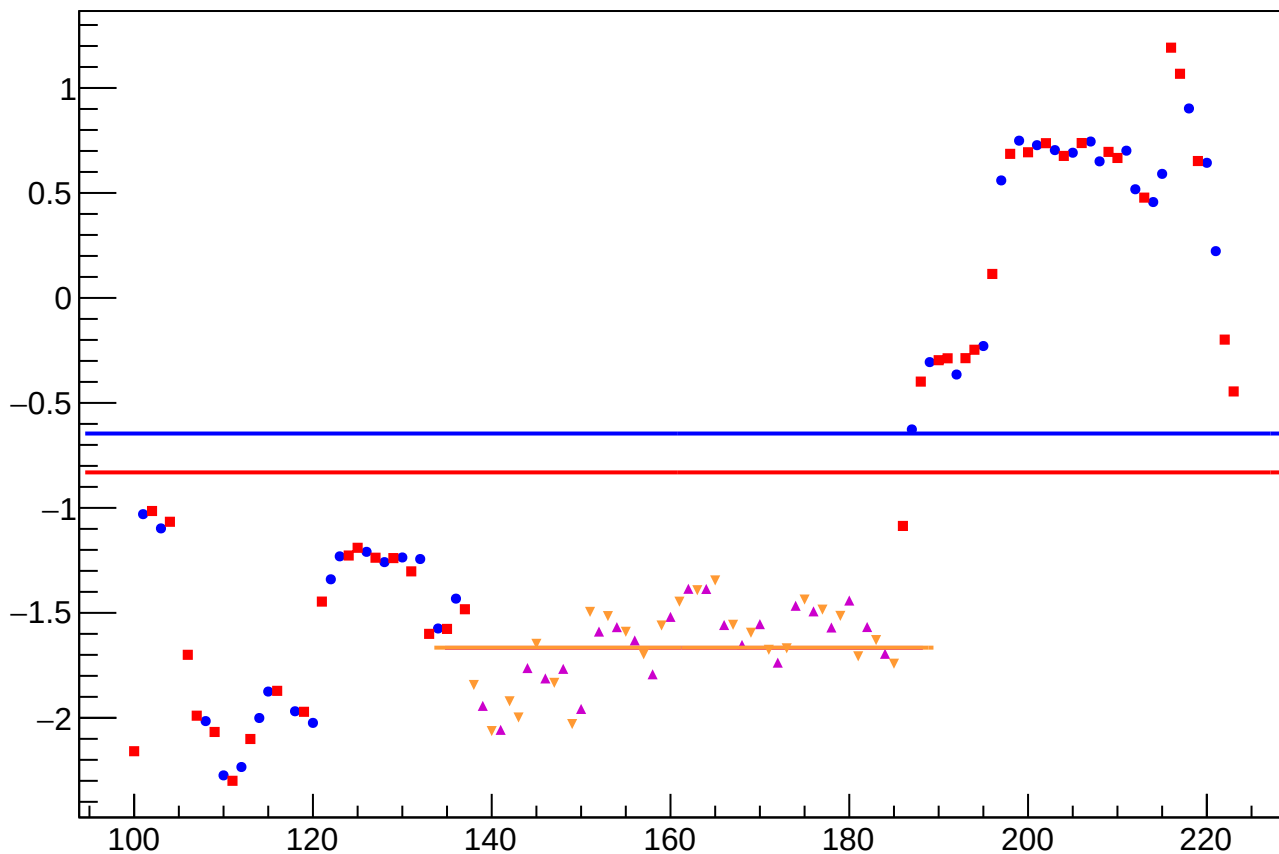
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 3891164.1/73

In: 0.005 $\pm$ 0.000 χ^2 /NDF:2365878.6/57

Out: 0.005 $\pm$ 0.000 χ^2 /NDF:3037052.9/63

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 5405322.2/121

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.646+/-0.000

χ^2/NDF : 268941335083.5/34

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -0.743+/-0.000

χ^2/NDF : 577523744033.6/73

Right Out: -0.831+/-0.000

χ^2/NDF : 304136561487.4/38

In: -1.286+/-0.000

χ^2/NDF : 444324085484.0/57

Out: -1.346+/-0.000

χ^2/NDF : 440411381435.4/63

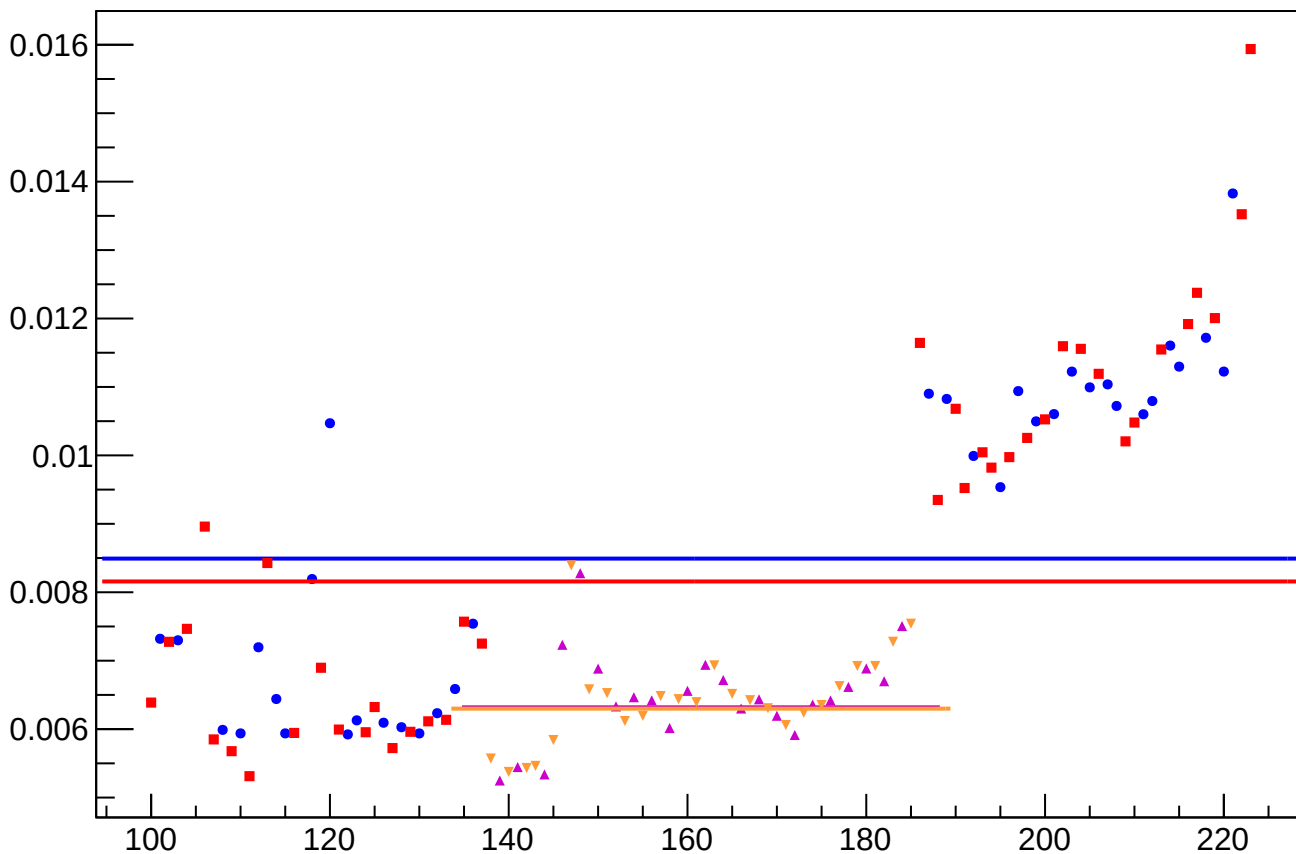
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.317+/-0.000

χ^2/NDF : 885949714342.5/100

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2580685.5/34

Left Out: 0.006+/-0.000 χ^2/NDF :312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3177517.4/38

Left In: 0.006+/-0.000 χ^2/NDF :334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

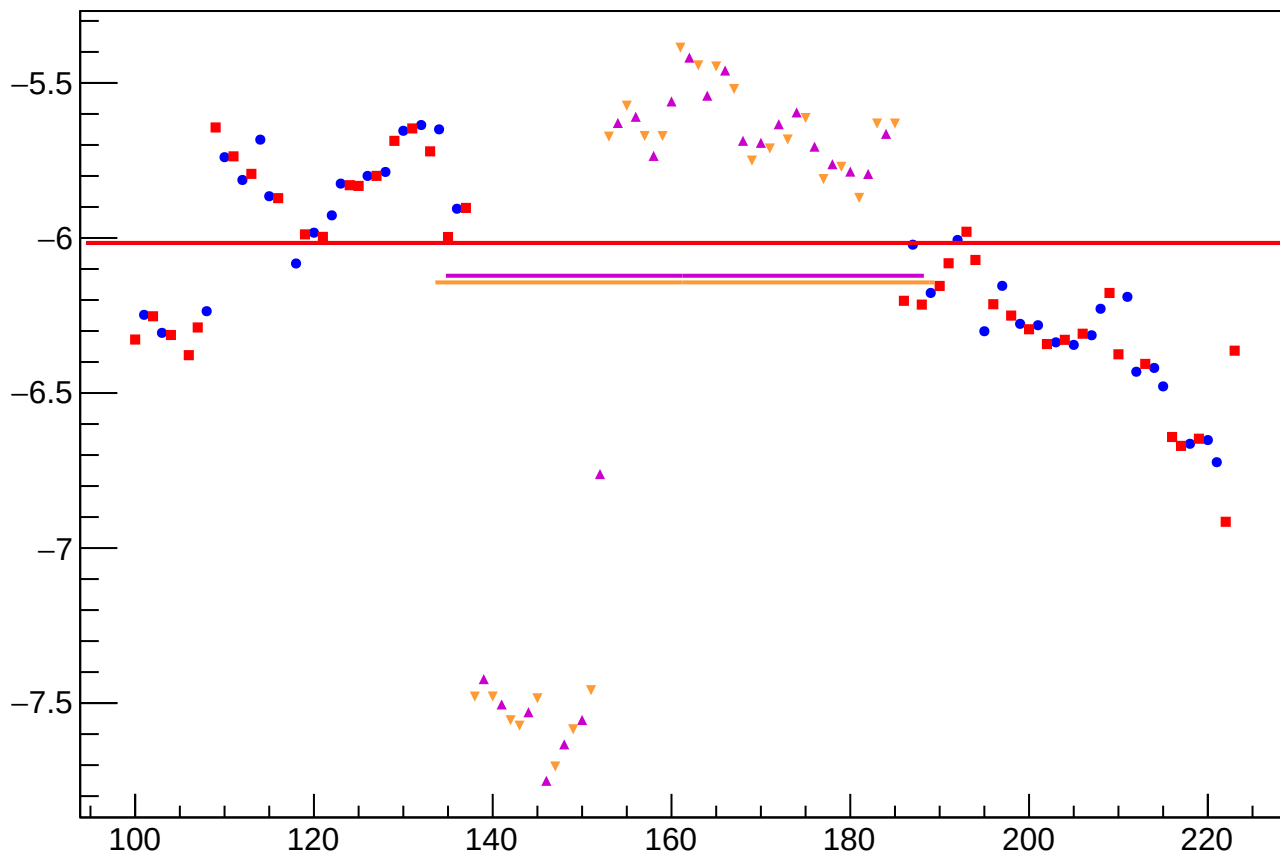
Right: 0.008+/-0.000 χ^2/NDF : 5787154.9/73

In: 0.007+/-0.000 χ^2/NDF :4371388.0/57

Out: 0.007+/-0.000 χ^2/NDF :4659219.8/63

All: 0.007+/-0.000 χ^2/NDF : 9040029.8/121

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -6.016+/-0.000 χ^2/NDF : 22720381230.9/34

Left Out: -6.143+/-0.000 χ^2/NDF : 185721259239.3/24

Right Out: -6.016+/-0.000 χ^2/NDF : 24940237724.2/38

Left In: -6.122+/-0.000 χ^2/NDF : 159909473006.6/22

Left: -6.133+/-0.000 χ^2/NDF : 345689393988.1/47

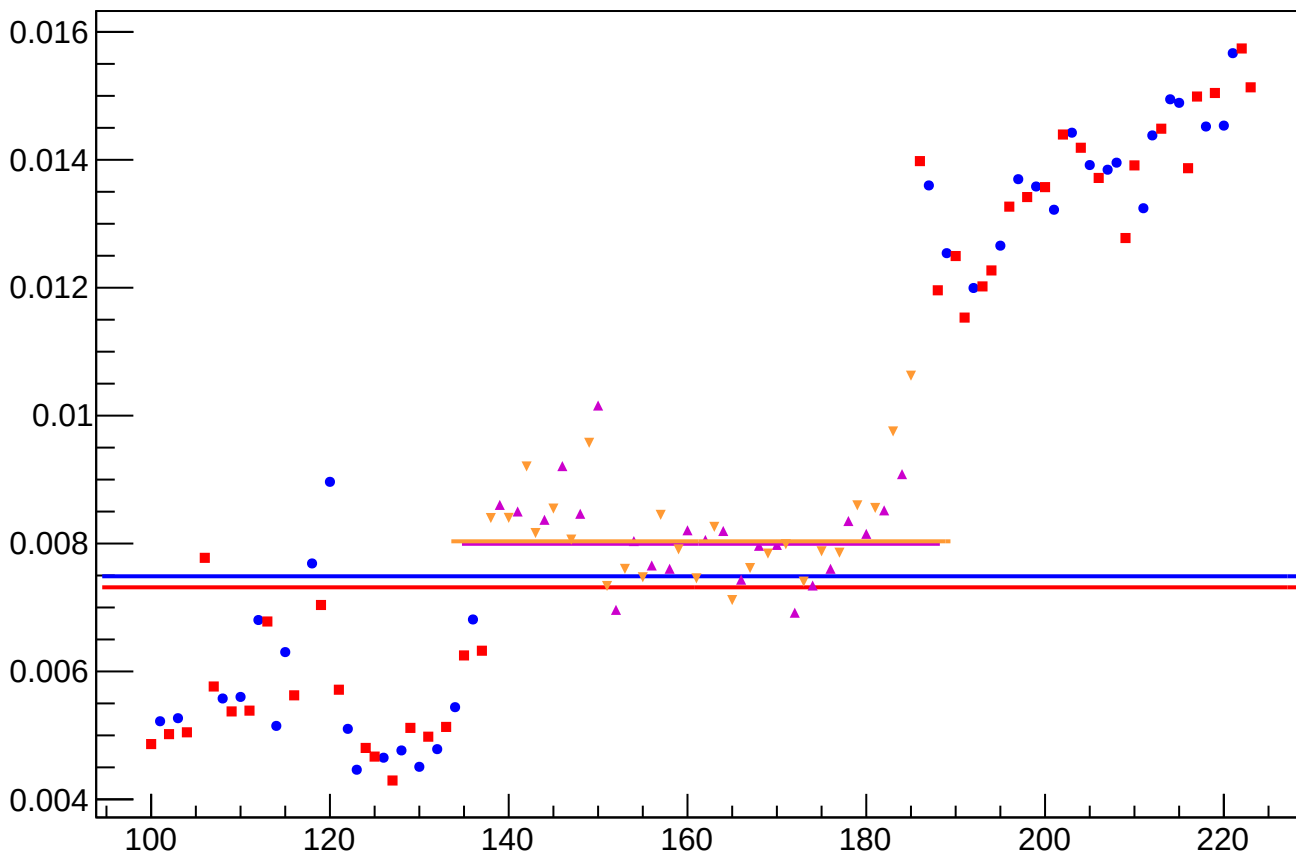
Right: -6.016+/-0.000 χ^2/NDF : 47660639059.0/73

In: -6.067+/-0.000 χ^2/NDF : 184068551301.6/57

Out: -6.075+/-0.000 χ^2/NDF : 212892629427.1/63

All: -6.071+/-0.000 χ^2/NDF : 396979763019.4

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 7567430.4/34

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 7615204.2/38

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

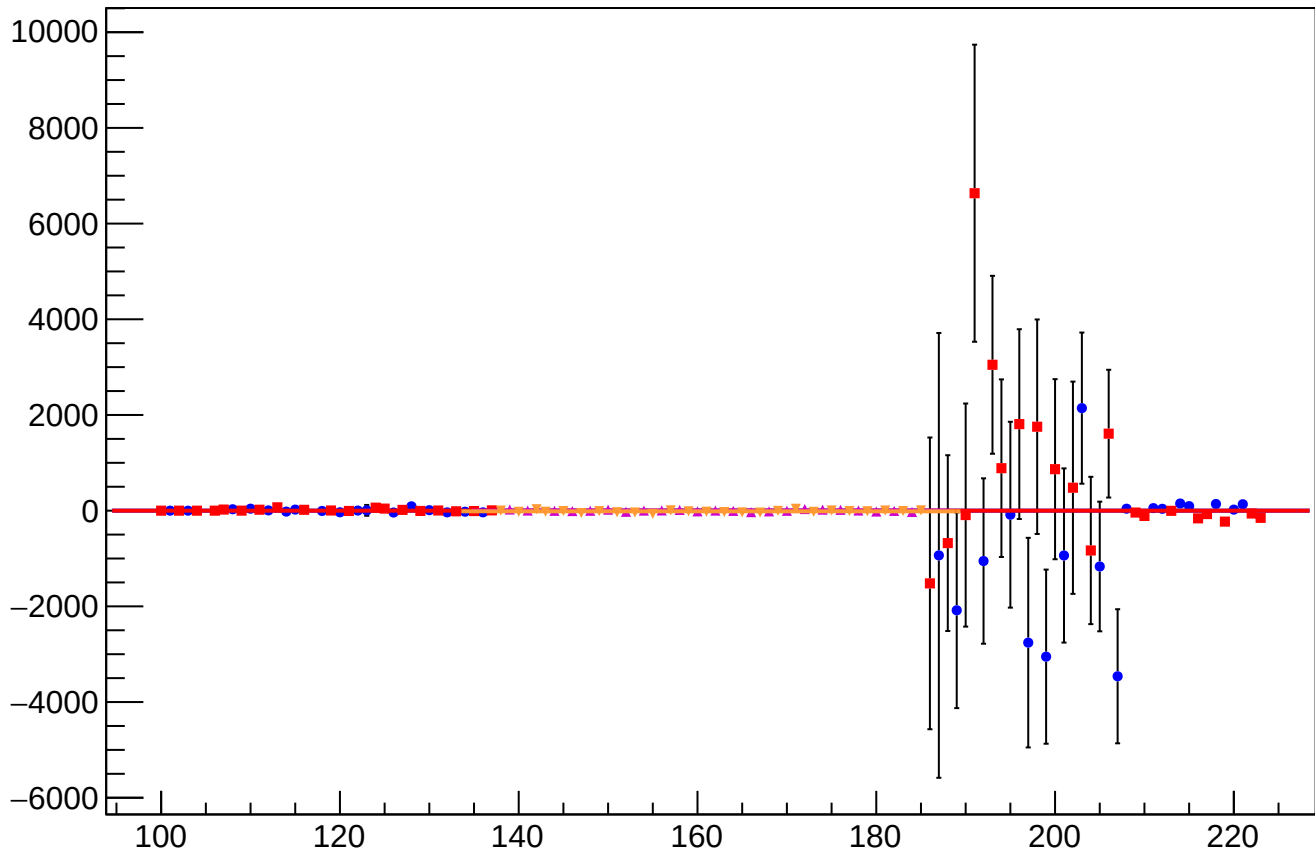
Right: 0.007+/-0.000 χ^2/NDF : 15190994.3/73

In: 0.008+/-0.000 χ^2/NDF :7854323.3/57

Out: 0.008+/-0.000 χ^2/NDF :7963351.2/63

All: 0.008+/-0.000 χ^2/NDF : 15821193.0/121

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 66.2/34$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 69.8/38$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

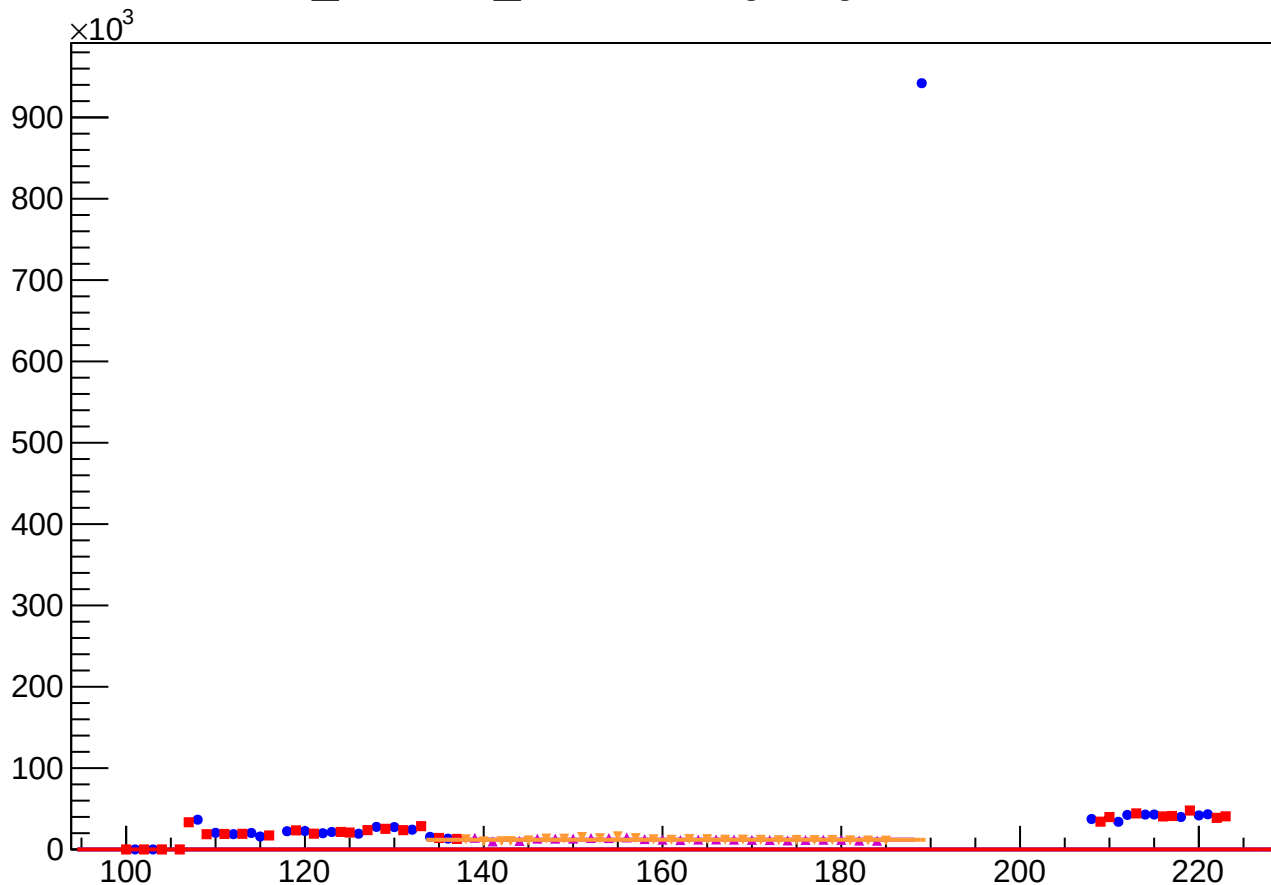
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 136.5/73$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 94.9/57$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 151.5/63$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 246.9/121$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.686+/-0.012 χ^2/NDF : 23184000.5/25

Left Out: 11909.835+/-1.977 χ^2/NDF : 475310.2/24

Right Out: 18.346+/-0.011 χ^2/NDF : 22183013.3/26

Left In: 12064.321+/-2.054 χ^2/NDF : 372586.0/22

Left: 11984.125+/-1.425 χ^2/NDF : 850831.6/47

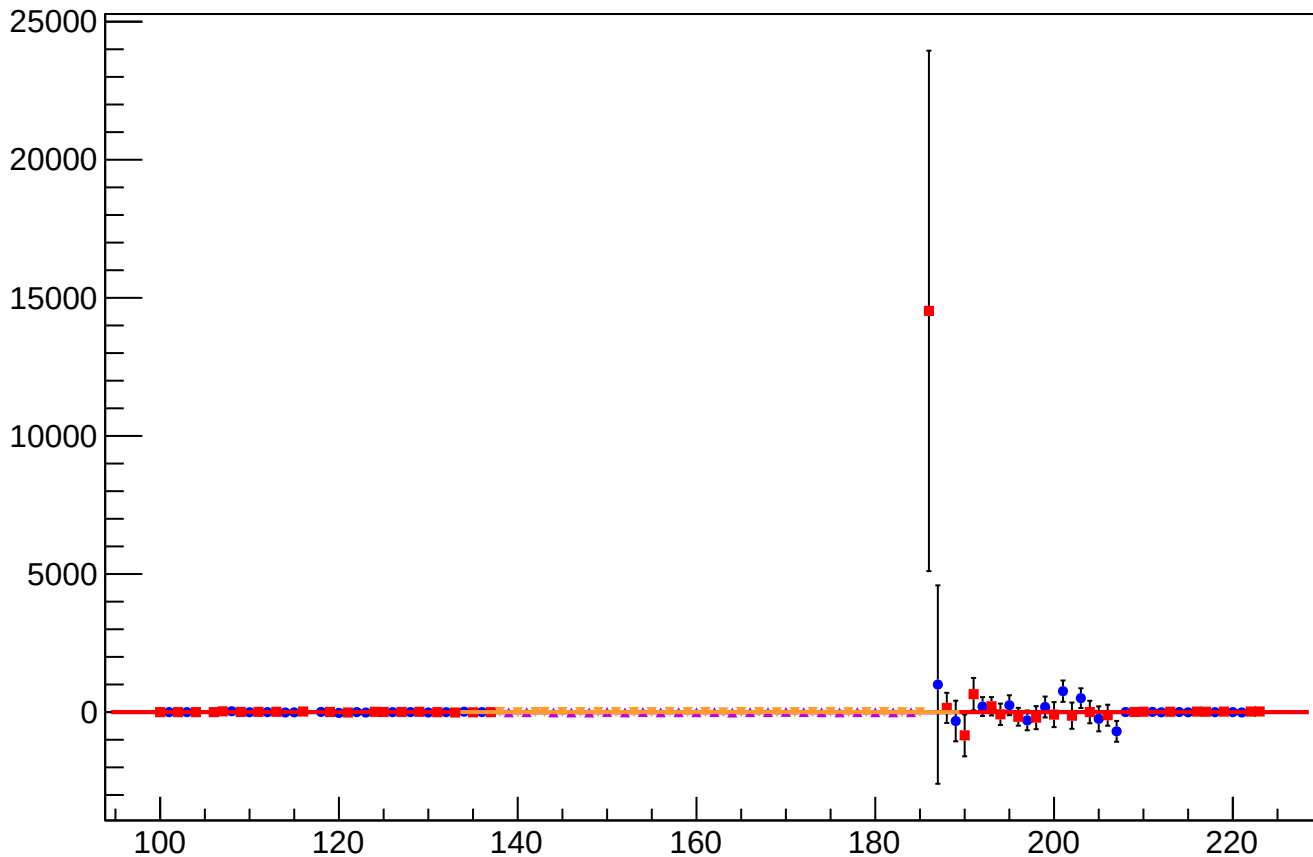
Right: 18.503+/-0.008 χ^2/NDF : 45367425.9/52

In: 19.114+/-0.012 χ^2/NDF : 57934234.0/48

Out: 18.739+/-0.011 χ^2/NDF : 58825239.0/51

All: 18.913+/-0.008 χ^2/NDF : 116759977.0/10

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 34.3/34

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF: 17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 76.1/38

Left In: -0.843 $\pm$ 1.043 χ^2 /NDF: 35.7/22

Left: 0.443 $\pm$ 0.730 χ^2 /NDF: 56.5/47

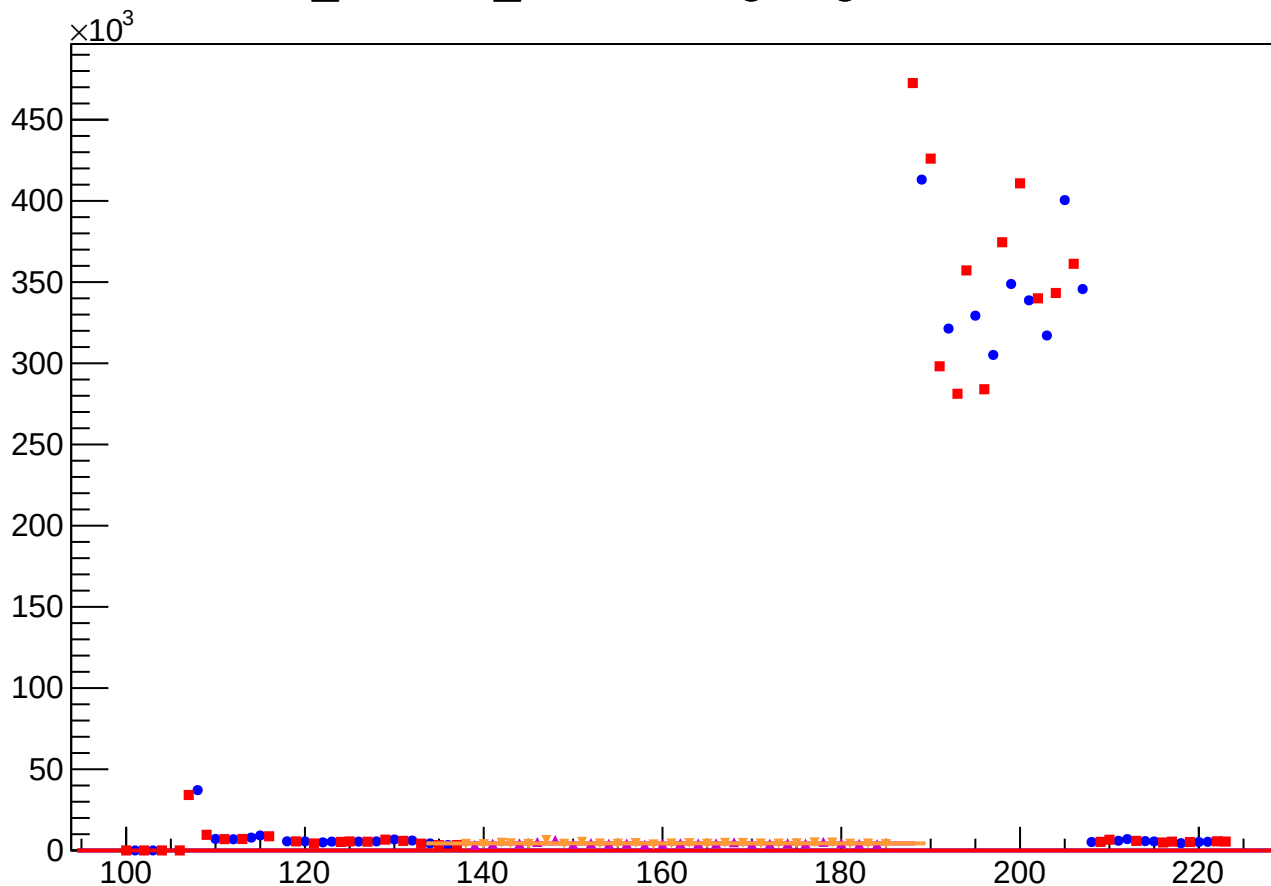
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 111.8/73

In: 0.001 $\pm$ 0.009 χ^2 /NDF: 70.6/57

Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 96.8/63

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 168.7/121

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 10.033+/-0.007 χ^2/NDF : 36576715.2/33

Left Out: 4350.545+/-0.722 χ^2/NDF : 384749.0/24

Right Out: 9.931+/-0.006 χ^2/NDF : 36937940.0/37

Left In: 4314.568+/-0.738 χ^2/NDF : 534594.3/22

Left: 4332.940+/-0.516 χ^2/NDF : 920558.3/47

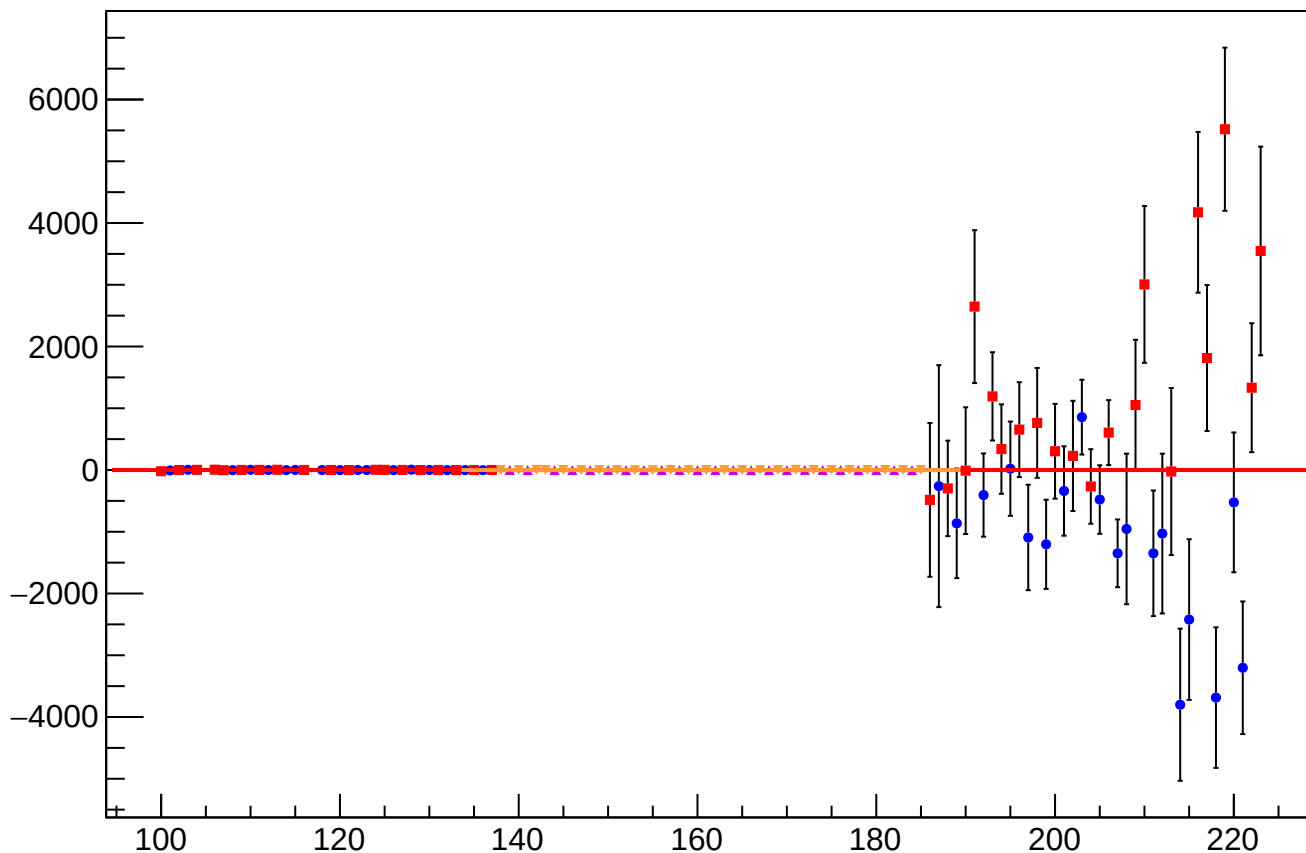
Right: 9.979+/-0.004 χ^2/NDF : 73514787.2/71

In: 10.368+/-0.007 χ^2/NDF : 71171236.4/56

Out: 10.242+/-0.006 χ^2/NDF : 73466396.8/62

All: 10.301+/-0.004 χ^2/NDF : 144637832.4/11

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.707 ± 0.485 χ^2/NDF : 72.8/34

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.766 ± 0.502 χ^2/NDF : 65.5/38

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

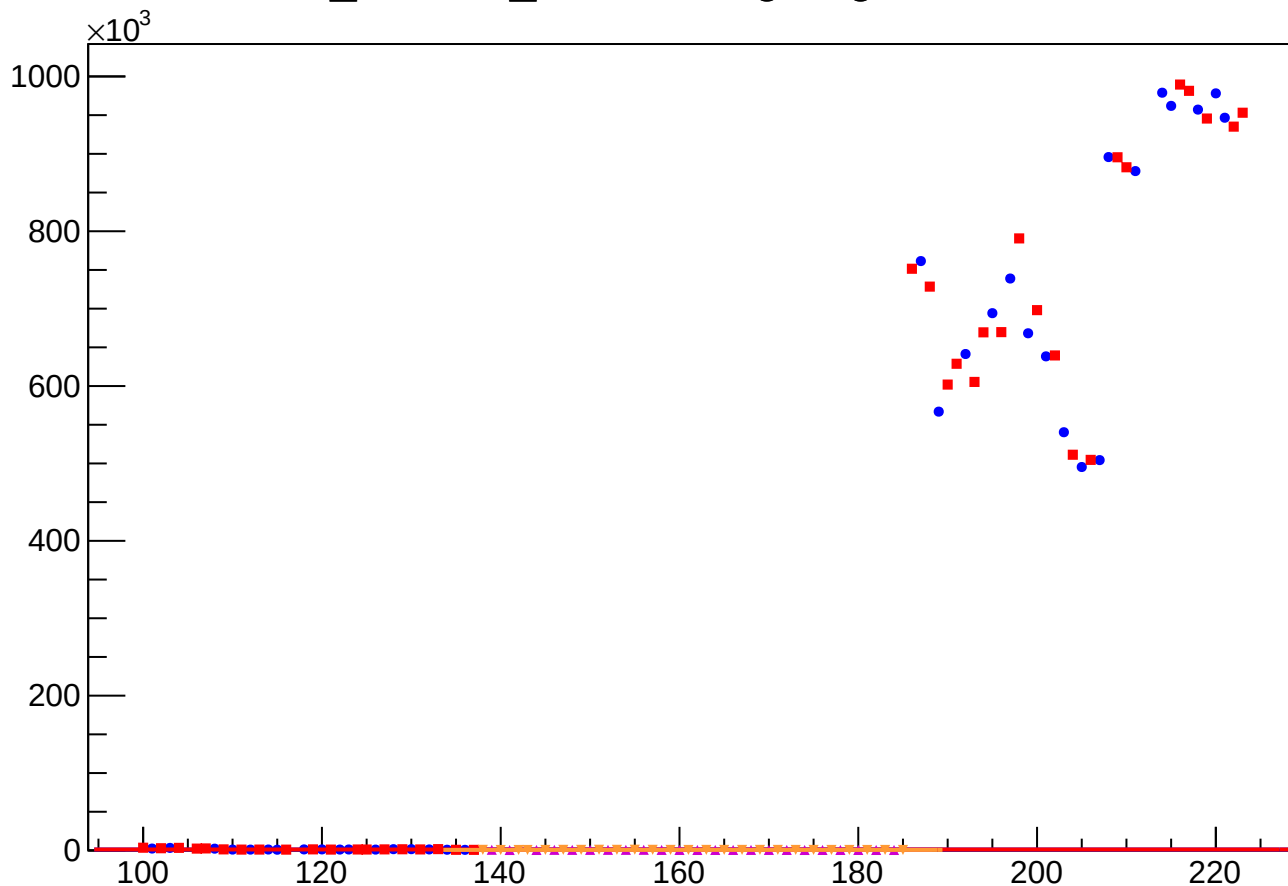
Right: 0.004 ± 0.349 χ^2/NDF : 142.8/73

In: -0.059 ± 0.161 χ^2/NDF : 104.0/57

Out: -0.625 ± 0.156 χ^2/NDF : 132.4/63

All: -0.350 ± 0.112 χ^2/NDF : 242.8/121

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.573+/-0.343 χ^2/NDF : 20399679.1/33

Left Out: 700.797+/-0.116 χ^2/NDF : 392521.4/24

Right Out: 1252.937+/-0.355 χ^2/NDF : 21329279.0/37

Left In: 706.950+/-0.120 χ^2/NDF : 338177.1/22

Left: 703.766+/-0.084 χ^2/NDF : 732052.1/47

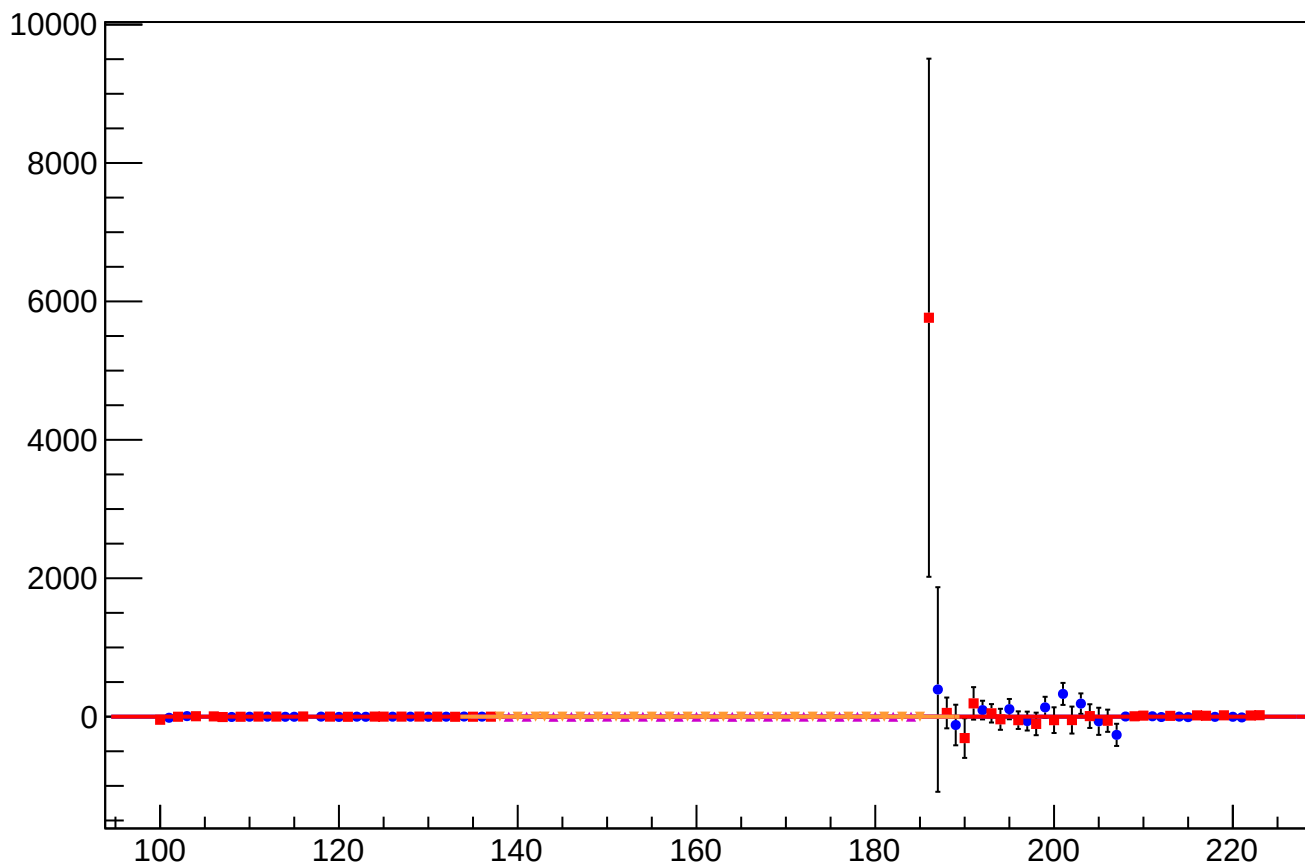
Right: 1208.779+/-0.247 χ^2/NDF : 41758863.6/71

In: 757.413+/-0.114 χ^2/NDF : 22344150.0/56

Out: 754.202+/-0.110 χ^2/NDF : 23906449.4/62

All: 755.763+/-0.079 χ^2/NDF : 46251010.3/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.119 ± 0.267 χ^2/NDF : 41.9/34

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: 0.049 ± 0.262 χ^2/NDF : 96.1/38

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

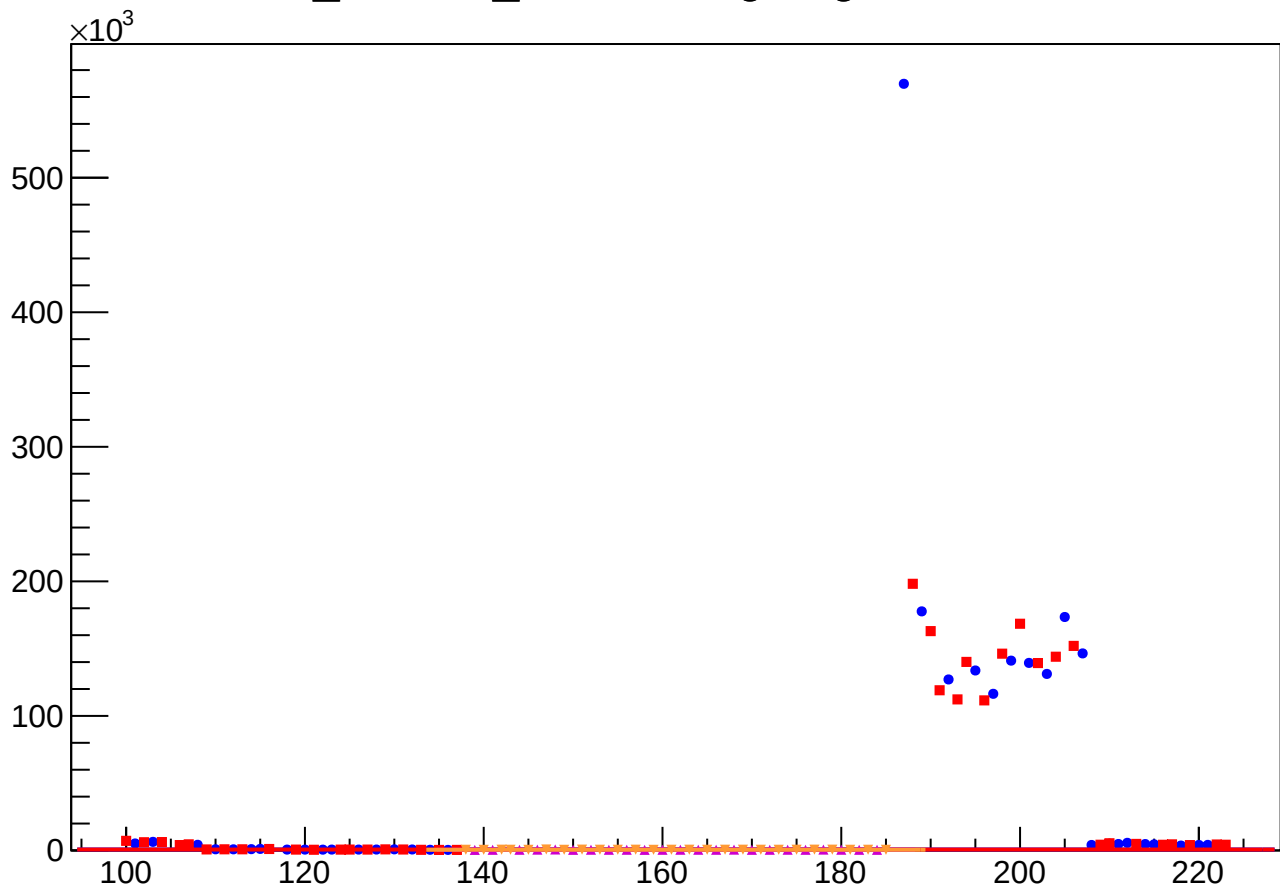
Right: -0.034 ± 0.187 χ^2/NDF : 138.3/73

In: -0.116 ± 0.114 χ^2/NDF : 76.9/57

Out: 0.203 ± 0.111 χ^2/NDF : 114.1/63

All: 0.047 ± 0.079 χ^2/NDF : 195.1/121

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 697.006 $\pm$ 0.189 χ^2 /NDF: 25765839.7/34

Left Out: 522.416 $\pm$ 0.087 χ^2 /NDF: 331573.1/24

Right Out: 677.200 $\pm$ 0.185 χ^2 /NDF: 26474767.5/37

Left In: 519.909 $\pm$ 0.089 χ^2 /NDF: 444746.3/22

Left: 521.193 $\pm$ 0.062 χ^2 /NDF: 776728.3/47

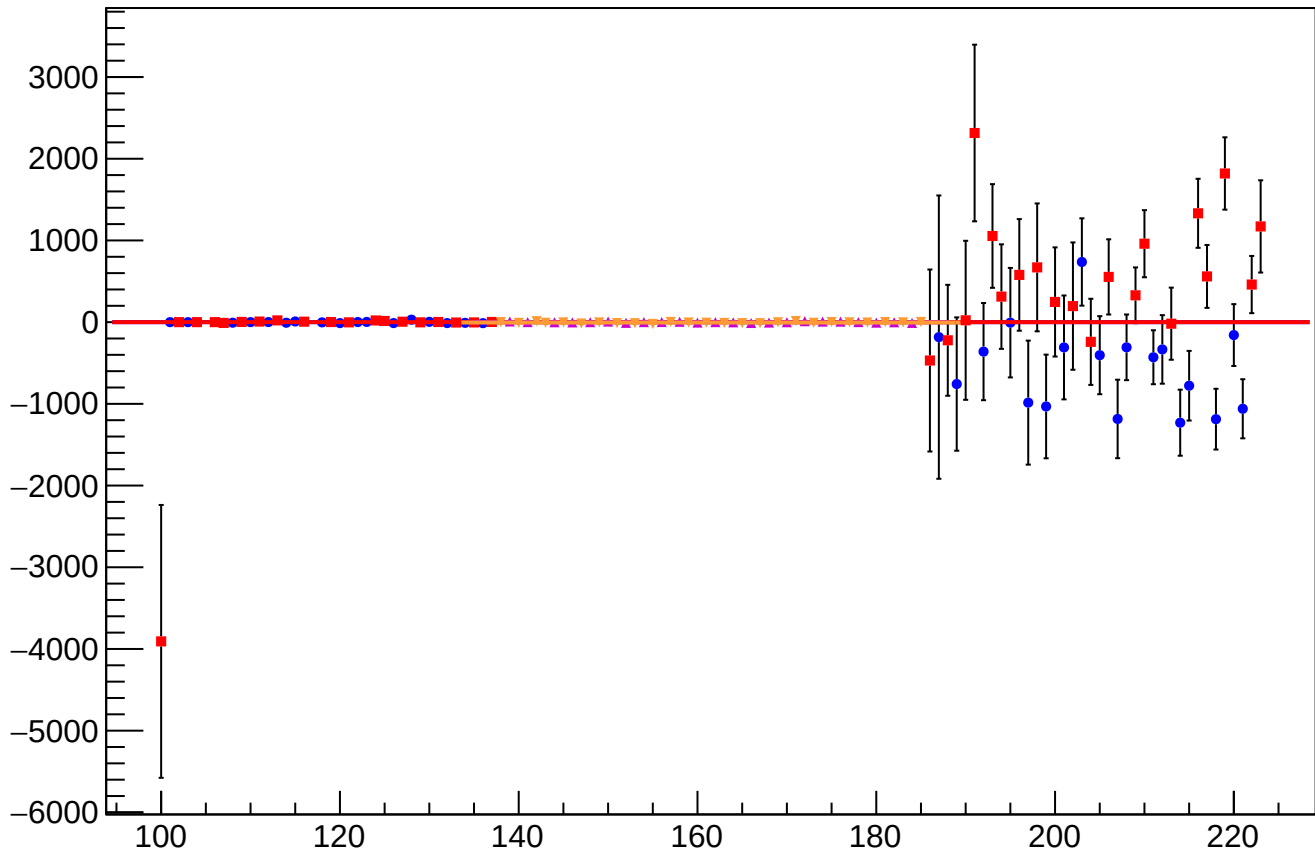
Right: 686.909 $\pm$ 0.132 χ^2 /NDF: 52246198.5/72

In: 551.866 $\pm$ 0.080 χ^2 /NDF: 26929284.3/57

Out: 550.128 $\pm$ 0.078 χ^2 /NDF: 27378179.7/62

All: 550.977 $\pm$ 0.056 χ^2 /NDF: 54307703.3/12

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 64.6/34

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 69.4/38

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

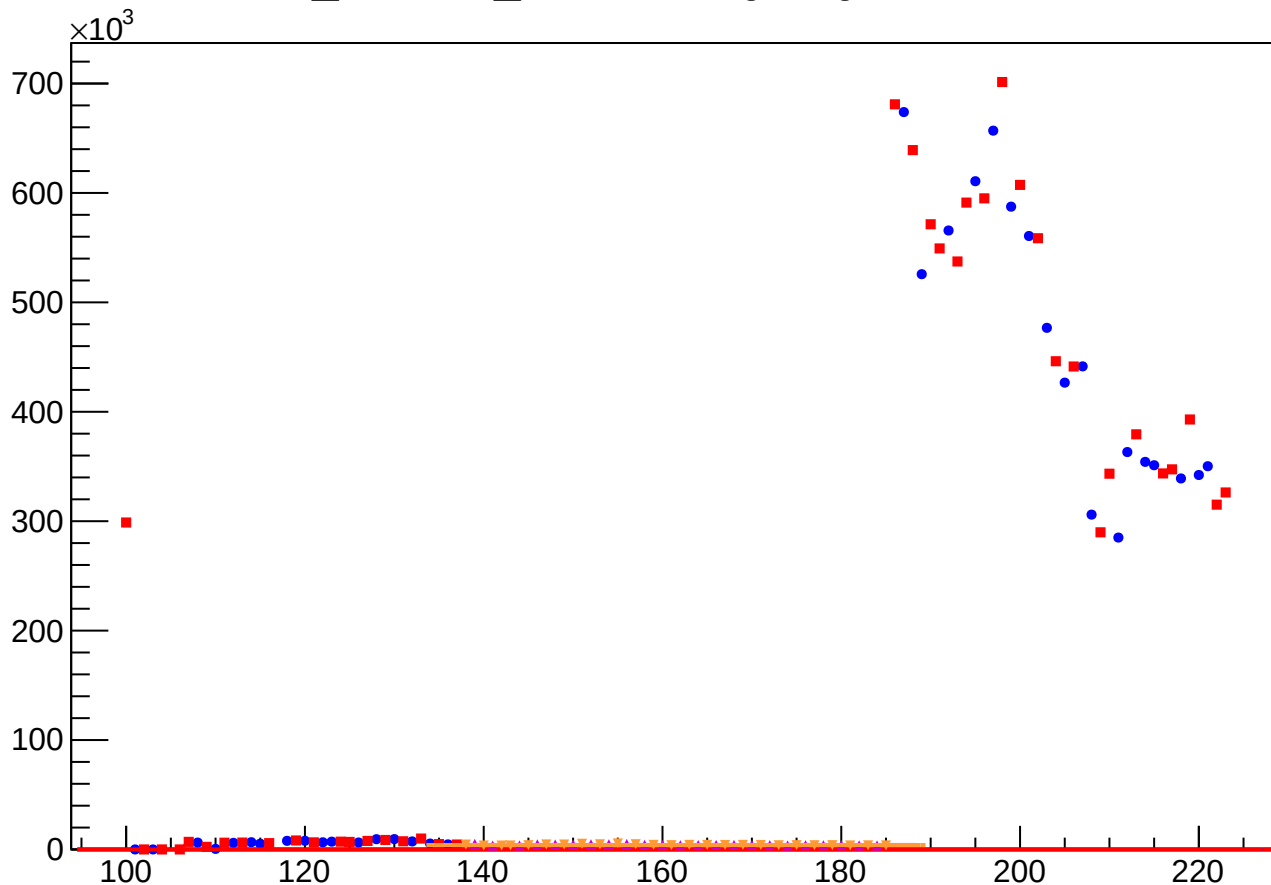
Right: 0.004 ± 0.014 χ^2/NDF : 136.8/73

In: -0.022 ± 0.021 χ^2/NDF : 93.9/57

Out: 0.025 ± 0.020 χ^2/NDF : 149.8/63

All: 0.003 ± 0.014 χ^2/NDF : 246.3/121

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.349+/-0.015 χ^2/NDF : 36776160.9/34

Left Out: 4074.257+/-0.676 χ^2/NDF : 416916.0/24

Right Out: 17.279+/-0.014 χ^2/NDF : 37819457.2/38

Left In: 4113.744+/-0.700 χ^2/NDF : 354965.8/22

Left: 4093.298+/-0.486 χ^2/NDF : 773528.6/47

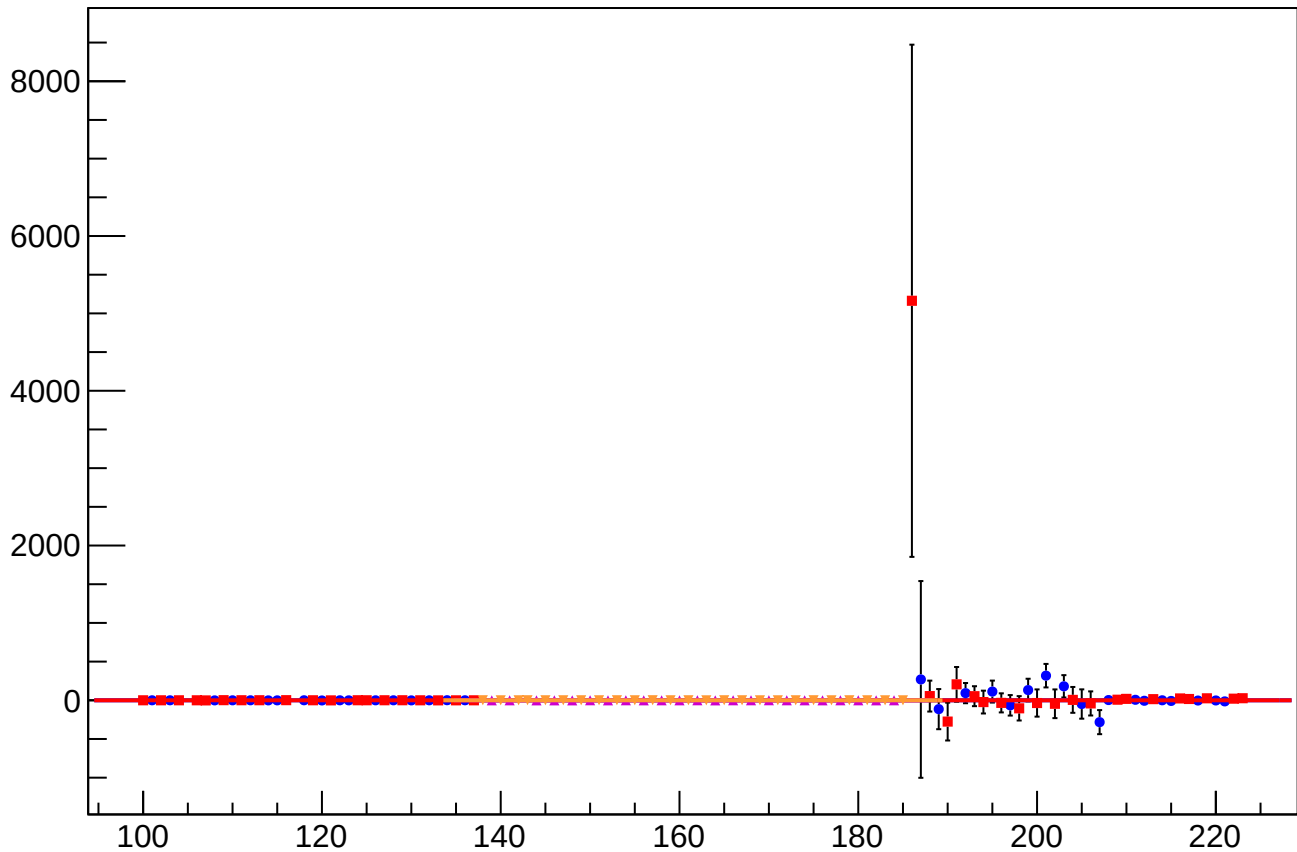
Right: 17.312+/-0.010 χ^2/NDF : 74595630.0/73

In: 19.155+/-0.015 χ^2/NDF : 71345181.1/57

Out: 19.016+/-0.014 χ^2/NDF : 74272240.8/63

All: 19.082+/-0.010 χ^2/NDF : 145617468.7/12

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 37.8/34

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 97.9/38

Left In: -0.075 $\pm$ 0.078 χ^2 /NDF:34.8/22

Left: 0.041 $\pm$ 0.055 χ^2 /NDF: 55.8/47

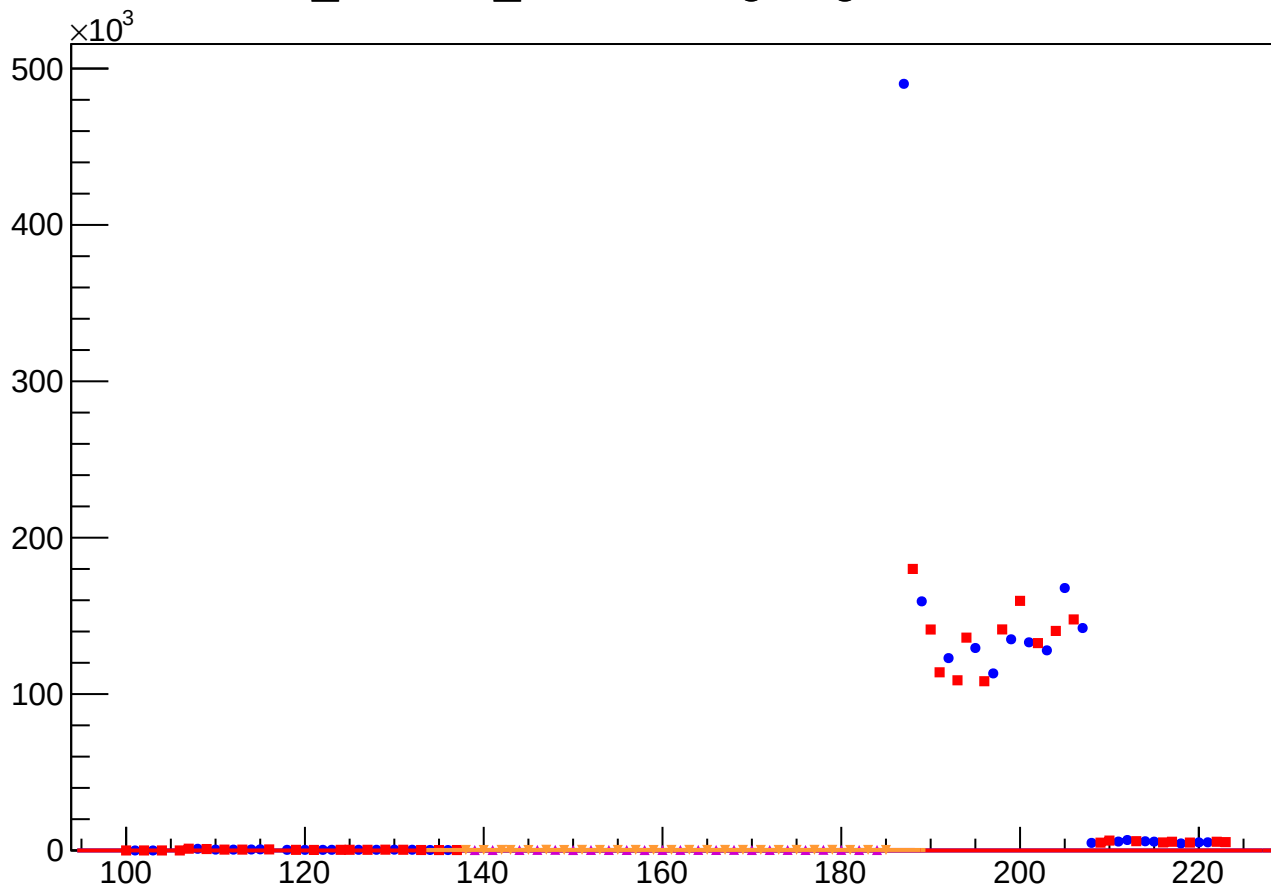
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 135.9/73

In: 0.000 $\pm$ 0.002 χ^2 /NDF:73.5/57

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:118.7/63

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 192.3/121

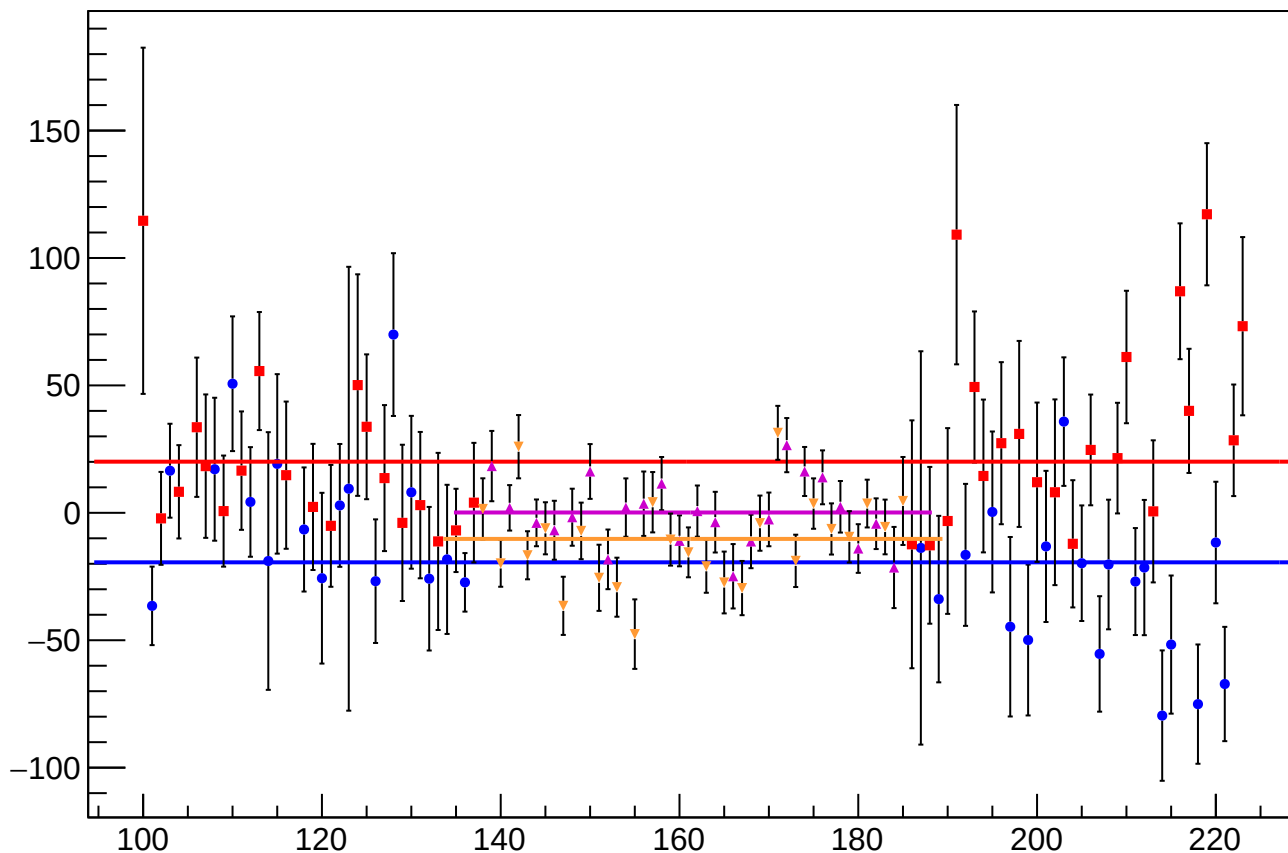
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.703+/-0.001 χ^2/NDF : 36982233.4/34
 Left Out: 325.469+/-0.054 χ^2/NDF : 350046.8/24
 Right Out: 1.732+/-0.001 χ^2/NDF : 36748650.9/37
 Left In: 325.201+/-0.055 χ^2/NDF : 428069.7/22

Left: 325.339+/-0.039 χ^2/NDF : 778128.6/47
 Right: 1.718+/-0.001 χ^2/NDF : 73731099.1/72
 In: 1.918+/-0.001 χ^2/NDF : 71384683.7/57
 Out: 1.941+/-0.001 χ^2/NDF : 73055610.3/62
 All: 1.930+/-0.001 χ^2/NDF : 144440422.4/120

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -19.429 +/- 4.185 χ^2/NDF : 53.7/34

Left Out: -10.235 +/- 2.167 χ^2/NDF : 58.0/24

Right Out: 20.075 +/- 4.259 χ^2/NDF : 47.3/38

Left In: 0.130 +/- 2.242 χ^2/NDF : 29.8/22

Left: -5.230 +/- 1.558 χ^2/NDF : 98.9/47

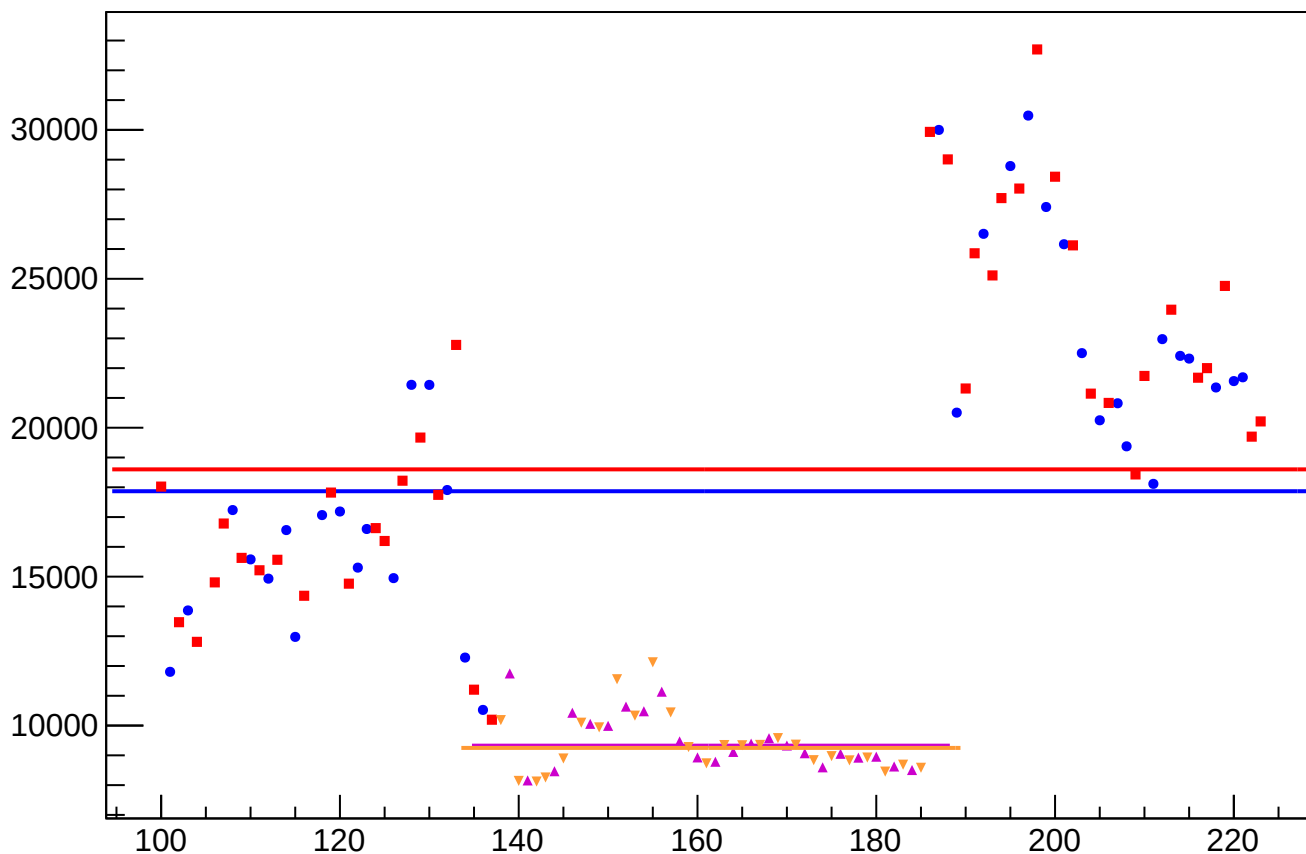
Right: -0.021 +/- 2.985 χ^2/NDF : 144.7/73

In: -4.232 +/- 1.976 χ^2/NDF : 100.5/57

Out: -4.002 +/- 1.931 χ^2/NDF : 145.5/63

All: -4.115 +/- 1.381 χ^2/NDF : 246.0/121

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17867.710+/-2.959 χ^2/NDF : 3083315.8/34

Left Out: 9249.358+/-1.532 χ^2/NDF : 332003.4/24

Right Out: 18601.693+/-3.011 χ^2/NDF : 3079282.0/38

Left In: 9325.112+/-1.585 χ^2/NDF : 280927.7/22

Left: 9285.937+/-1.102 χ^2/NDF : 614111.7/47

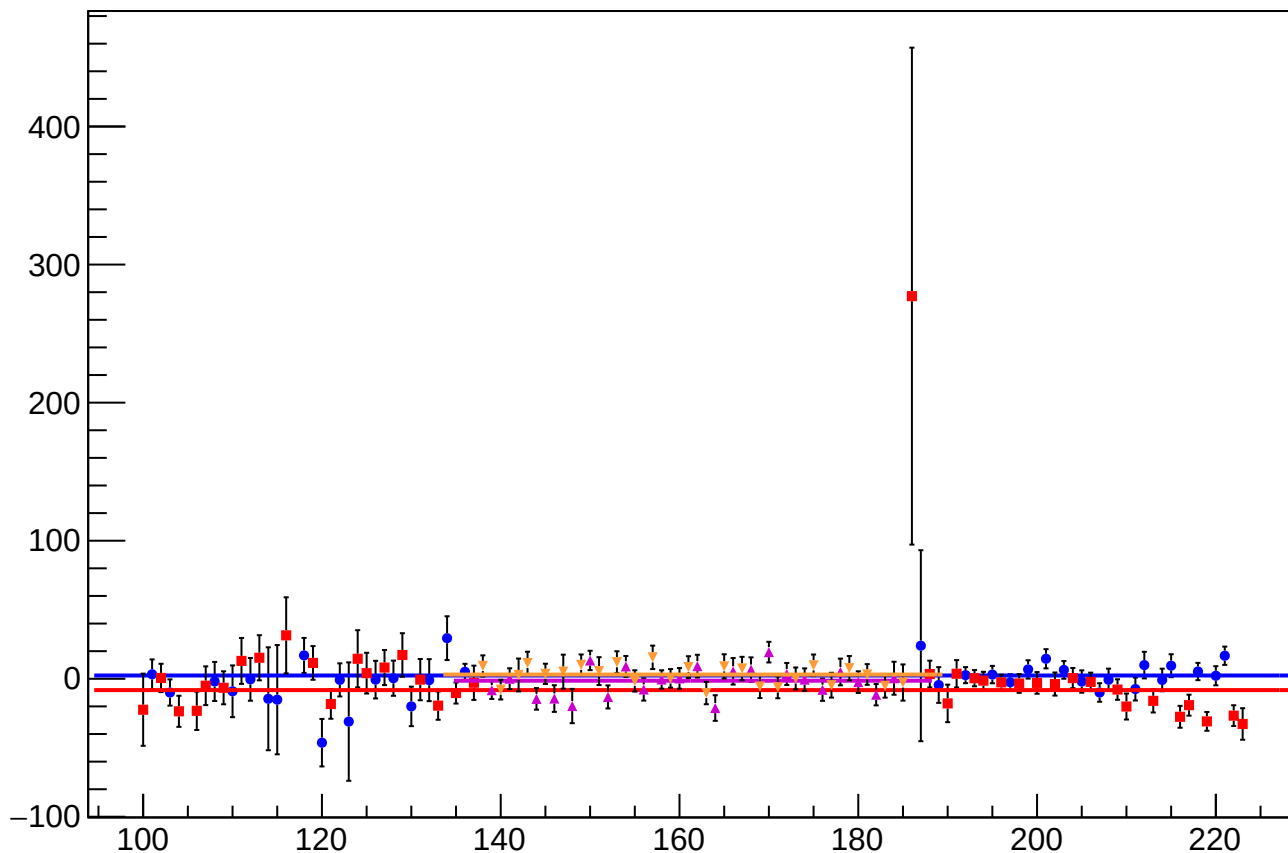
Right: 18228.315+/-2.111 χ^2/NDF : 6192820.3/73

In: 11230.291+/-1.398 χ^2/NDF : 9838708.4/57

Out: 11172.403+/-1.365 χ^2/NDF : 11073683.7/63

All: 11200.675+/-0.977 χ^2/NDF : 20913269.9

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.380 ± 1.508 $\chi^2/\text{NDF}: 34.8/34$

Left Out: 3.062 ± 1.659 $\chi^2/\text{NDF}: 18.3/24$

Right Out: -8.201 ± 1.501 $\chi^2/\text{NDF}: 67.1/38$

Left In: -1.394 ± 1.693 $\chi^2/\text{NDF}: 35.4/22$

Left: 0.879 ± 1.185 $\chi^2/\text{NDF}: 57.2/47$

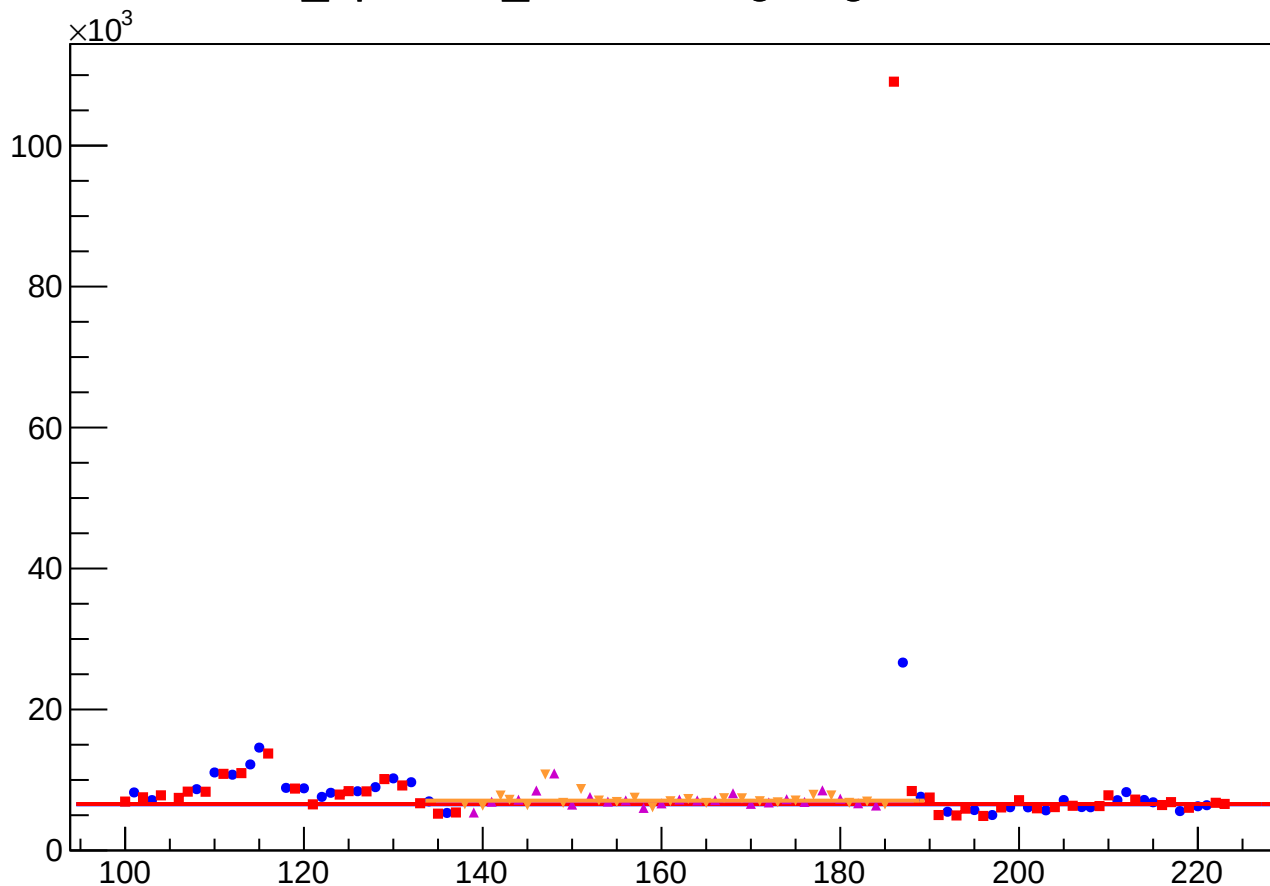
Right: -2.938 ± 1.064 $\chi^2/\text{NDF}: 126.7/73$

In: 0.710 ± 1.126 $\chi^2/\text{NDF}: 73.0/57$

Out: -3.132 ± 1.113 $\chi^2/\text{NDF}: 110.7/63$

All: -1.234 ± 0.792 $\chi^2/\text{NDF}: 189.6/121$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6547.754 ± 1.067 $\chi^2/\text{NDF}: 1665025.8/34$

Left Out: 7066.826 ± 1.173 $\chi^2/\text{NDF}: 387449.8/24$

Right Out: 6589.869 ± 1.061 $\chi^2/\text{NDF}: 2167283.1/38$

Left In: 7000.532 ± 1.197 $\chi^2/\text{NDF}: 550029.3/22$

Left: 7034.358 ± 0.838 $\chi^2/\text{NDF}: 939043.5/47$

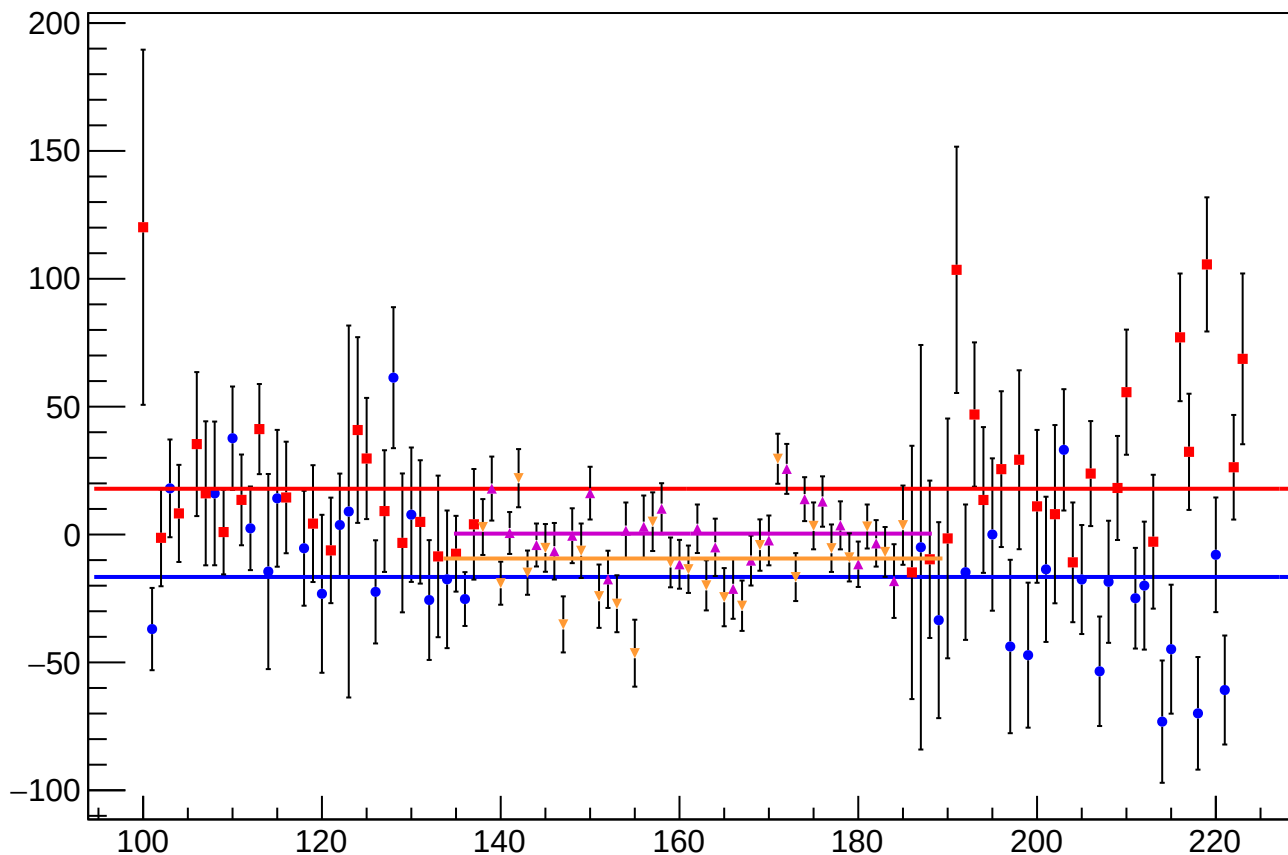
Right: 6568.922 ± 0.752 $\chi^2/\text{NDF}: 3833092.4/73$

In: 6748.105 ± 0.796 $\chi^2/\text{NDF}: 2294788.7/57$

Out: 6804.514 ± 0.787 $\chi^2/\text{NDF}: 2645665.3/63$

All: 6776.650 ± 0.560 $\chi^2/\text{NDF}: 4942992.5/12$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -16.593 ± 3.843 $\chi^2/\text{NDF}: 54.4/34$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 17.899 ± 3.878 $\chi^2/\text{NDF}: 44.4/38$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

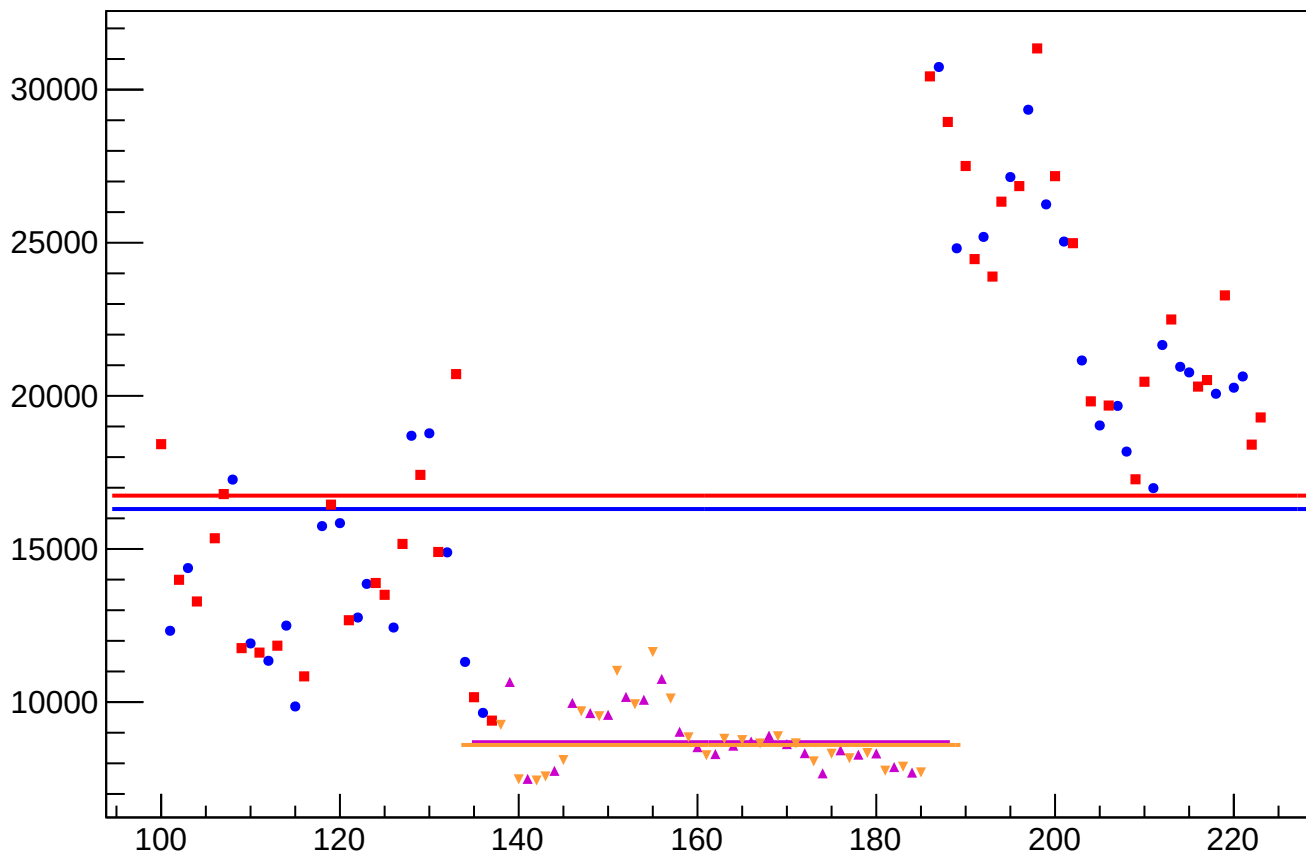
Right: 0.497 ± 2.730 $\chi^2/\text{NDF}: 138.8/73$

In: -3.521 ± 1.838 $\chi^2/\text{NDF}: 99.0/57$

Out: -3.565 ± 1.790 $\chi^2/\text{NDF}: 141.8/63$

All: -3.544 ± 1.282 $\chi^2/\text{NDF}: 240.8/121$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 16304.258 $\pm$ 2.717 χ^2 /NDF: 3608435.4/34

Left Out: 8600.457 $\pm$ 1.427 χ^2 /NDF:438229.4/24

Right Out: 16742.178 $\pm$ 2.742 χ^2 /NDF: 3939852.3/38

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

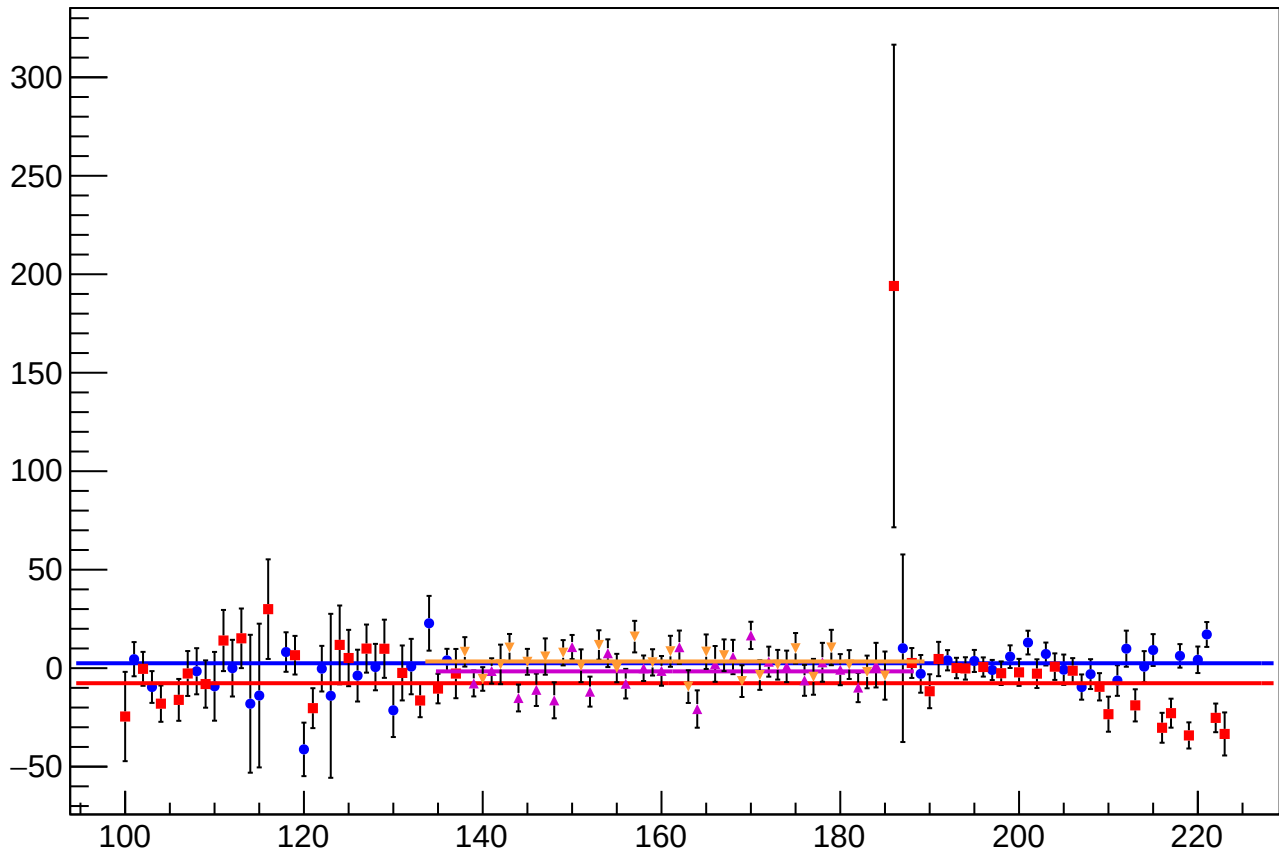
Right: 16521.239 $\pm$ 1.930 χ^2 /NDF: 7561154.9/73

In: 10430.961 $\pm$ 1.299 χ^2 /NDF:10035021.7/57

Out: 10335.028 $\pm$ 1.266 χ^2 /NDF:11315574.5/63

All: 10381.736 $\pm$ 0.907 χ^2 /NDF: 21353393.3

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.495 $\pm$ 1.378 χ^2/NDF : 37.6/34

Left Out: 3.406 $\pm$ 1.550 χ^2/NDF : 16.8/24

Right Out: -7.639 $\pm$ 1.354 χ^2/NDF : 83.7/38

Left In: -1.627 $\pm$ 1.599 χ^2/NDF : 33.5/22

Left: 0.967 $\pm$ 1.113 χ^2/NDF : 55.4/47

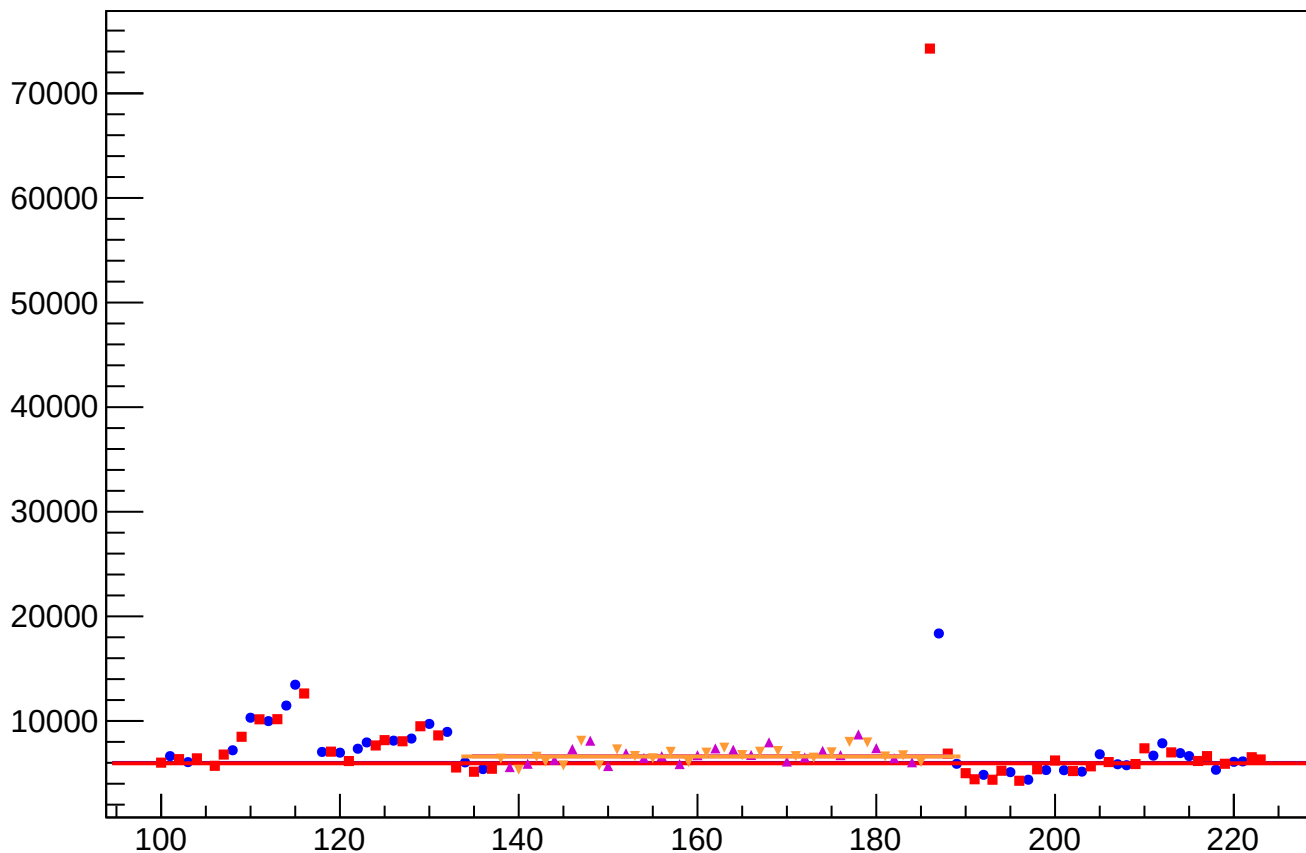
Right: -2.661 $\pm$ 0.966 χ^2/NDF : 148.8/73

In: 0.739 $\pm$ 1.044 χ^2/NDF : 74.9/57

Out: -2.862 $\pm$ 1.020 χ^2/NDF : 129.3/63

All: -1.103 $\pm$ 0.729 χ^2/NDF : 210.3/121

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5985.571 $\pm$ 0.974 χ^2/NDF : 1665134.6/34

Left Out: 6607.100 $\pm$ 1.096 χ^2/NDF : 398416.1/24

Right Out: 5953.664 $\pm$ 0.957 χ^2/NDF : 2270262.2/38

Left In: 6628.653 $\pm$ 1.131 χ^2/NDF : 430282.2/22

Left: 6617.543 $\pm$ 0.787 χ^2/NDF : 828885.6/47

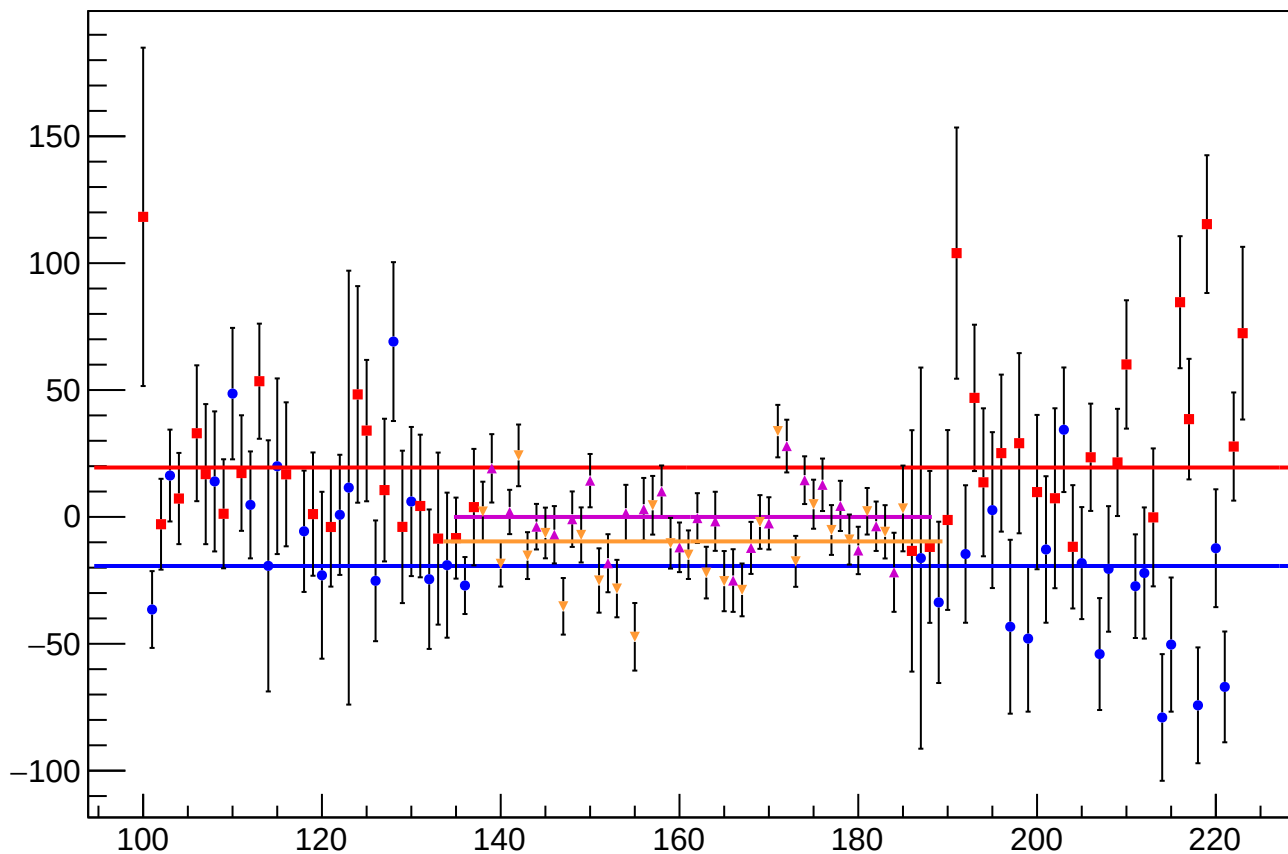
Right: 5969.336 $\pm$ 0.683 χ^2/NDF : 3935942.6/73

In: 6259.556 $\pm$ 0.738 χ^2/NDF : 2281061.7/57

Out: 6236.302 $\pm$ 0.721 χ^2/NDF : 2870263.7/63

All: 6247.657 $\pm$ 0.516 χ^2/NDF : 5151833.3/12

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -19.339 $\pm$ 4.090 χ^2/NDF : 54.0/34

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 19.471 $\pm$ 4.162 χ^2/NDF : 47.8/38

Left In: -0.019 $\pm$ 2.192 χ^2/NDF : 30.6/22

Left: -4.999 $\pm$ 1.523 χ^2/NDF : 100.4/47

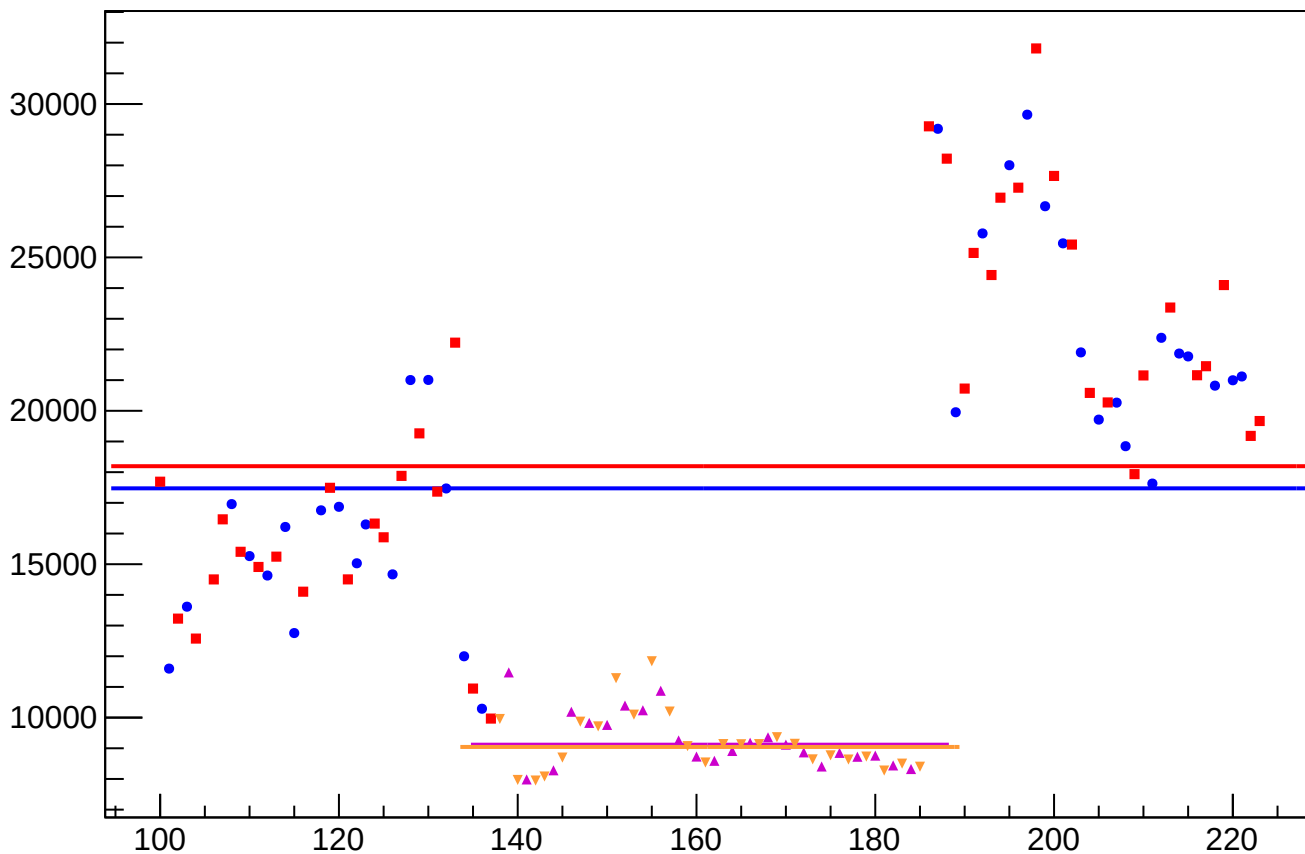
Right: -0.275 $\pm$ 2.917 χ^2/NDF : 146.1/73

In: -4.331 $\pm$ 1.932 χ^2/NDF : 102.0/57

Out: -3.658 $\pm$ 1.888 χ^2/NDF : 146.5/63

All: -3.987 $\pm$ 1.350 χ^2/NDF : 248.5/121

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17472.735 $\pm$ 2.892 χ^2 /NDF: 3030589.6/34

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF:328192.2/24

Right Out: 18194.562 $\pm$ 2.943 χ^2 /NDF: 3021080.8/38

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

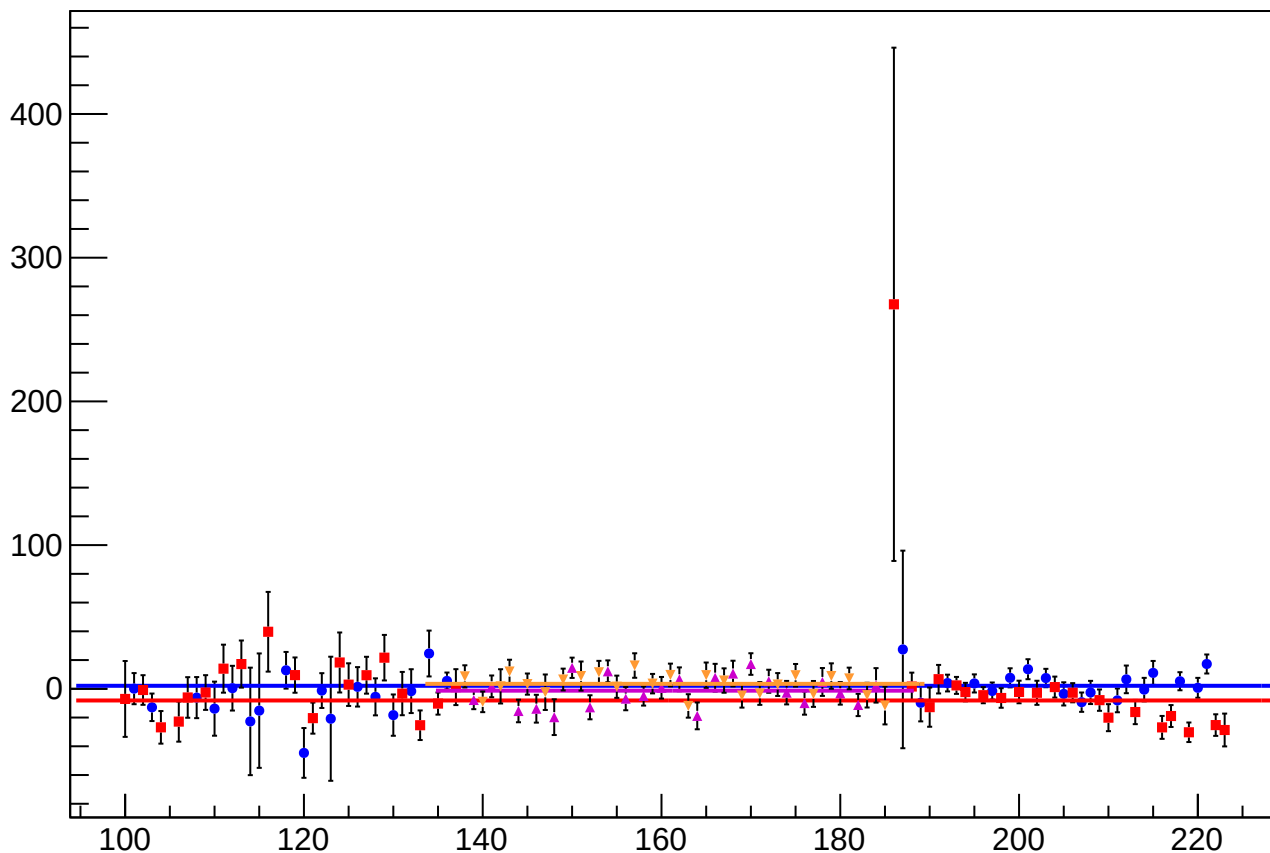
Right: 17827.301 $\pm$ 2.063 χ^2 /NDF: 6082275.6/73

In: 10981.699 $\pm$ 1.366 χ^2 /NDF:9794031.7/57

Out: 10926.044 $\pm$ 1.335 χ^2 /NDF:11028274.4/63

All: 10953.228 $\pm$ 0.955 χ^2 /NDF: 20823155.2

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 2.092 ± 1.513 $\chi^2/\text{NDF}: 35.2/34$

Left Out: 3.439 ± 1.666 $\chi^2/\text{NDF}: 18.9/24$

Right Out: -8.120 ± 1.505 $\chi^2/\text{NDF}: 68.7/38$

Left In: -1.291 ± 1.701 $\chi^2/\text{NDF}: 36.5/22$

Left: 1.123 ± 1.190 $\chi^2/\text{NDF}: 59.4/47$

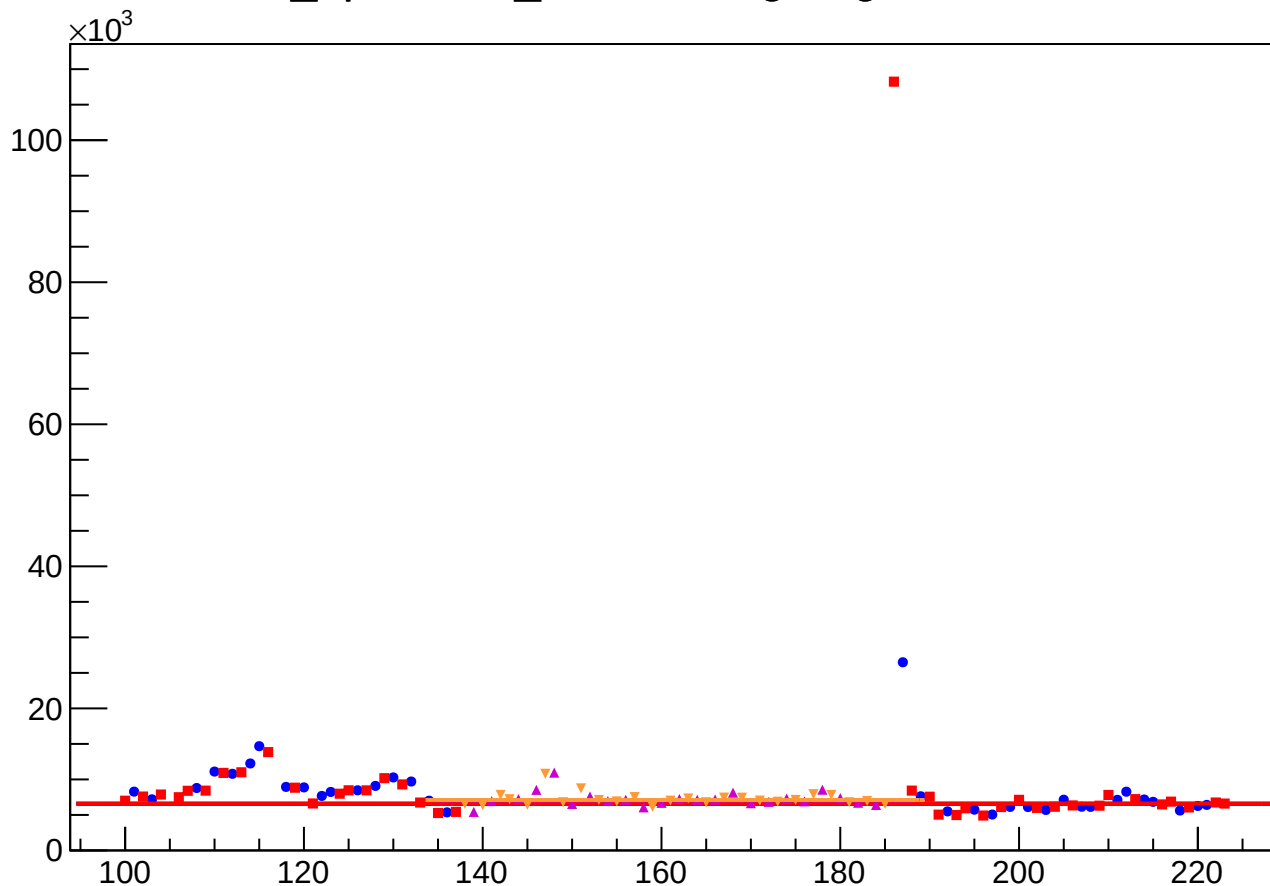
Right: -3.039 ± 1.067 $\chi^2/\text{NDF}: 126.8/73$

In: 0.598 ± 1.130 $\chi^2/\text{NDF}: 73.9/57$

Out: -2.925 ± 1.117 $\chi^2/\text{NDF}: 114.1/63$

All: -1.185 ± 0.794 $\chi^2/\text{NDF}: 193.0/121$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6566.597 $\pm$ 1.070 χ^2/NDF : 1669931.2/34

Left Out: 7098.726 $\pm$ 1.178 χ^2/NDF : 382550.4/24

Right Out: 6611.278 $\pm$ 1.064 χ^2/NDF : 2171446.5/38

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

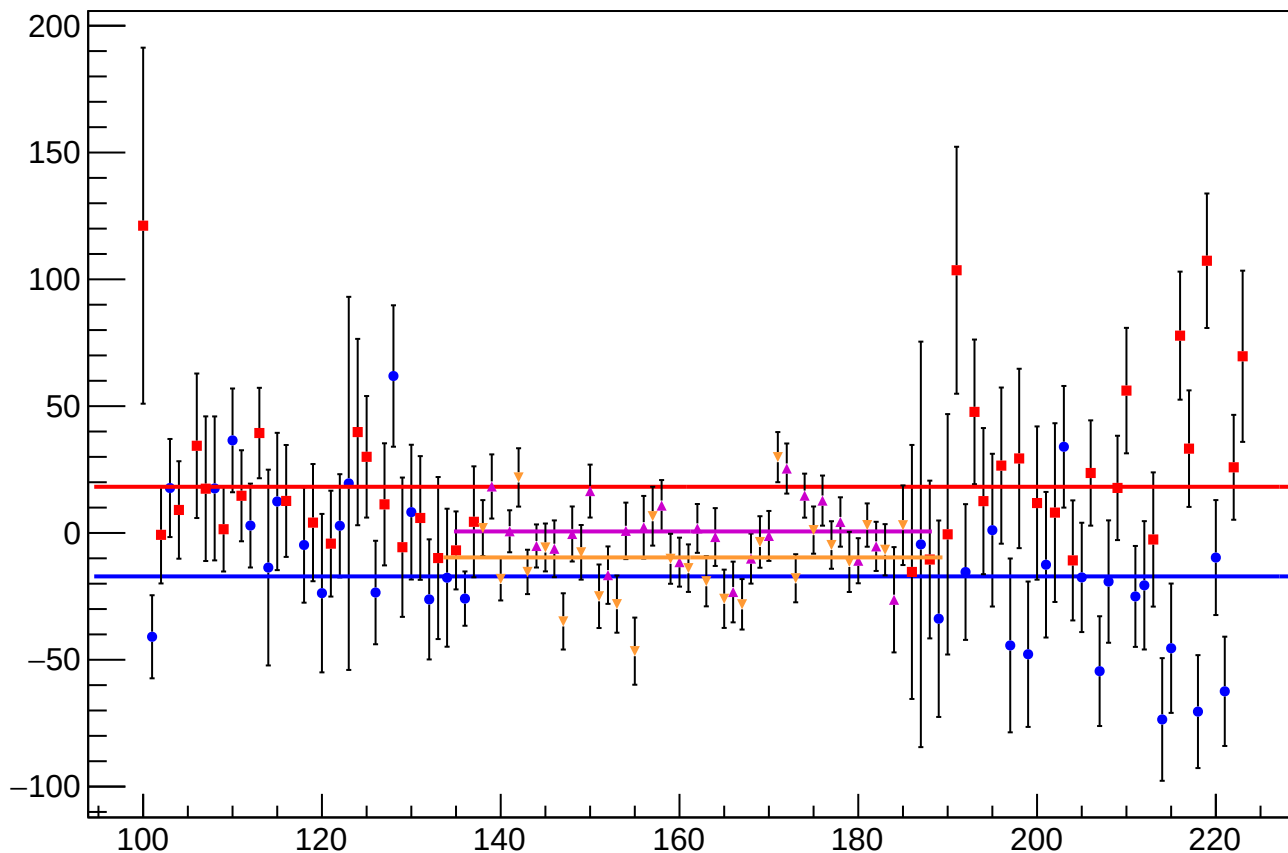
Right: 6589.047 $\pm$ 0.754 χ^2/NDF : 3842254.5/73

In: 6772.884 $\pm$ 0.799 χ^2/NDF : 2295189.9/57

Out: 6830.344 $\pm$ 0.790 χ^2/NDF : 2648254.3/63

All: 6801.957 $\pm$ 0.562 χ^2/NDF : 4946059.3/12

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -17.127 $\pm$ 3.891 χ^2/NDF : 54.8/34

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 18.208 $\pm$ 3.928 χ^2/NDF : 43.5/38

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

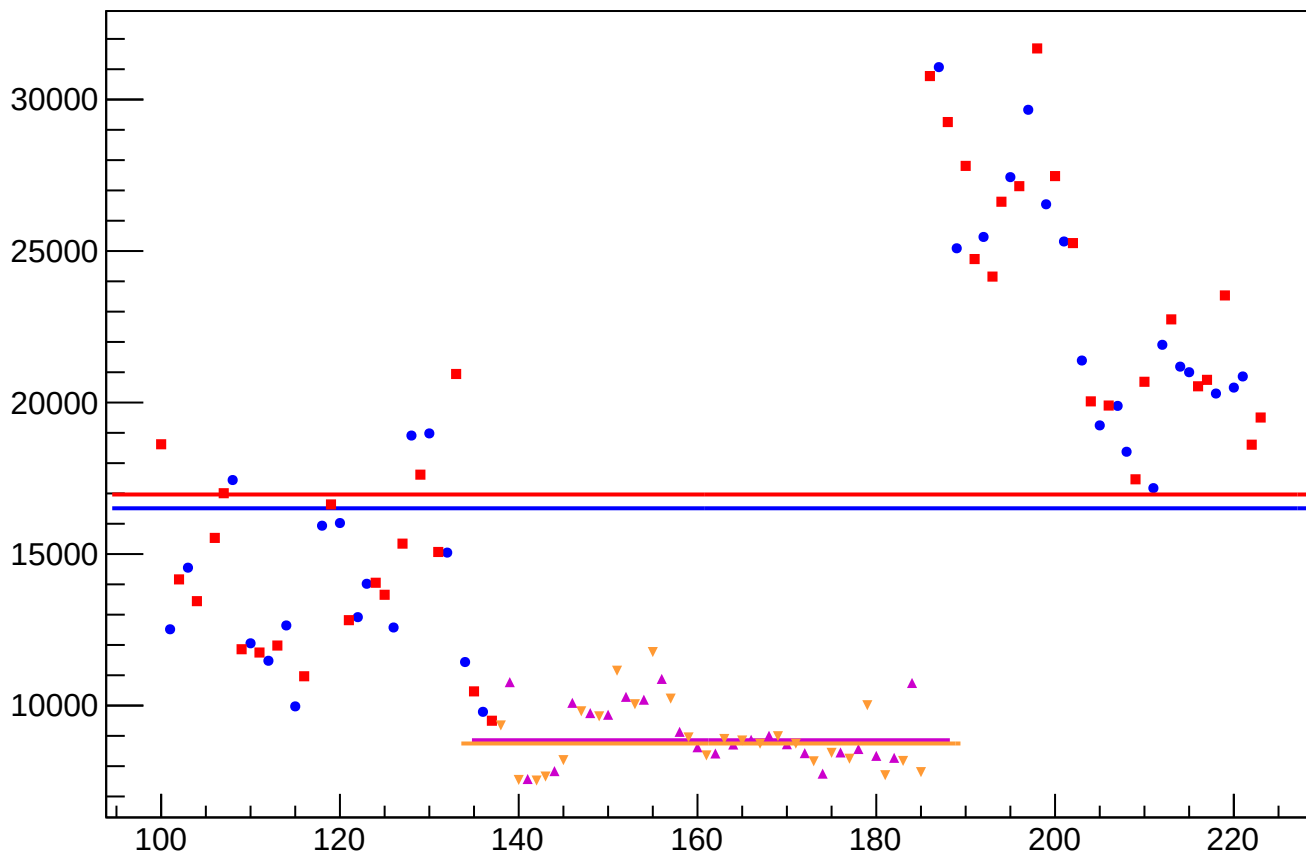
Right: 0.372 $\pm$ 2.764 χ^2/NDF : 139.2/73

In: -3.503 $\pm$ 1.872 χ^2/NDF : 100.4/57

Out: -3.646 $\pm$ 1.822 χ^2/NDF : 140.6/63

All: -3.576 $\pm$ 1.306 χ^2/NDF : 241.0/121

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16510.279 ± 2.751 $\chi^2/\text{NDF}: 3582095.9/34$

Left Out: 8748.407 ± 1.455 $\chi^2/\text{NDF}: 463394.1/24$

Right Out: 16965.808 ± 2.778 $\chi^2/\text{NDF}: 3896774.3/38$

Left In: 8855.591 ± 1.510 $\chi^2/\text{NDF}: 367542.7/22$

Left: 8800.011 ± 1.048 $\chi^2/\text{NDF}: 833550.6/47$

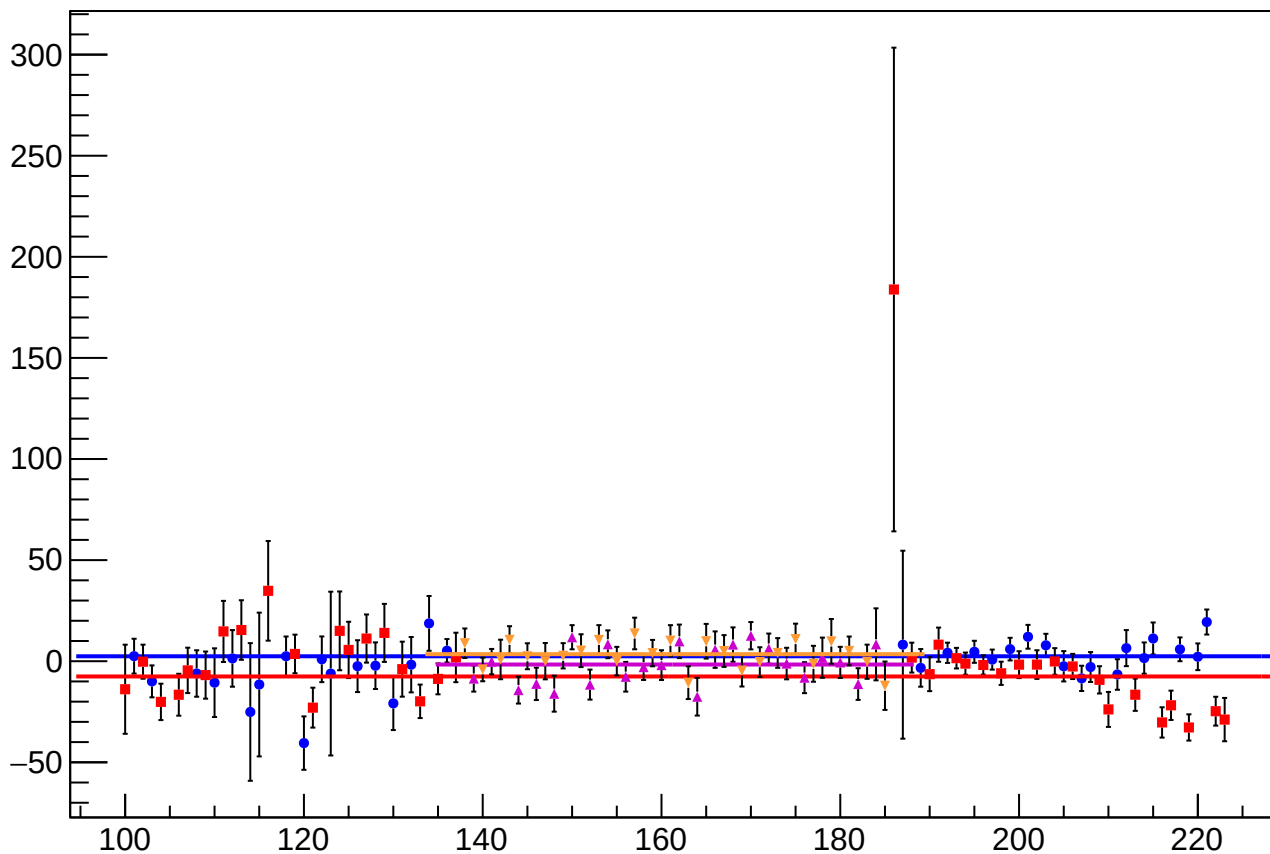
Right: 16735.873 ± 1.955 $\chi^2/\text{NDF}: 7492446.1/73$

In: 10627.015 ± 1.324 $\chi^2/\text{NDF}: 9899015.3/57$

Out: 10517.153 ± 1.289 $\chi^2/\text{NDF}: 11228488.9/63$

All: 10570.618 ± 0.923 $\chi^2/\text{NDF}: 21131041.2$

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 2.441 $\pm$ 1.345 χ^2/NDF : 39.7/34

Left Out: 3.473 $\pm$ 1.524 χ^2/NDF : 15.8/24

Right Out: -7.547 $\pm$ 1.321 χ^2/NDF : 84.6/38

Left In: -1.638 $\pm$ 1.578 χ^2/NDF : 33.7/22

Left: 1.006 $\pm$ 1.096 χ^2/NDF : 54.9/47

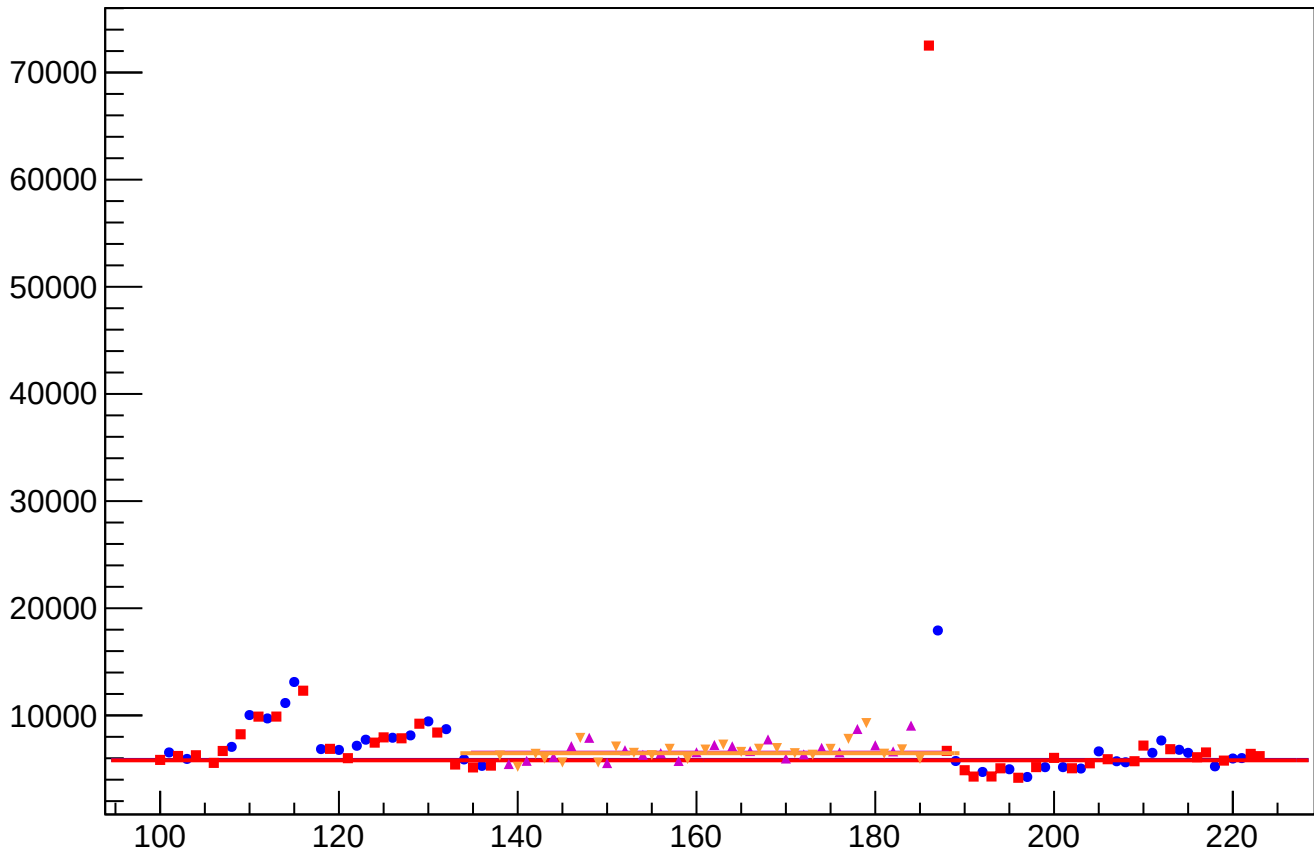
Right: -2.644 $\pm$ 0.943 χ^2/NDF : 152.4/73

In: 0.724 $\pm$ 1.024 χ^2/NDF : 77.3/57

Out: -2.820 $\pm$ 0.998 χ^2/NDF : 130.2/63

All: -1.092 $\pm$ 0.715 χ^2/NDF : 213.7/121

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5842.838 $\pm$ 0.951 χ^2 /NDF: 1671545.9/34

Left Out: 6471.976 $\pm$ 1.078 χ^2 /NDF: 490282.9/24

Right Out: 5809.000 $\pm$ 0.934 χ^2 /NDF: 2268427.3/38

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

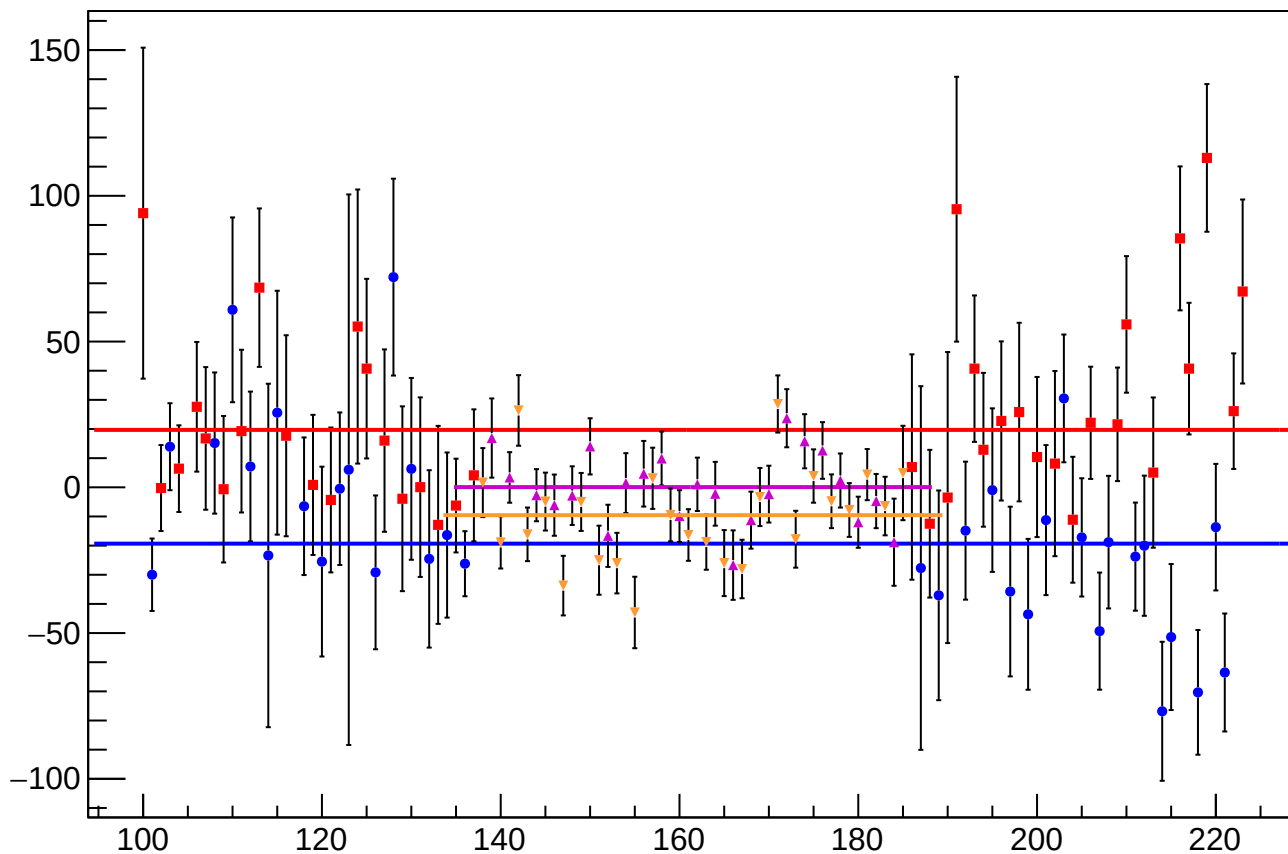
Right: 5825.612 $\pm$ 0.667 χ^2 /NDF: 3940617.3/73

In: 6128.731 $\pm$ 0.724 χ^2 /NDF: 2366117.8/57

Out: 6093.403 $\pm$ 0.706 χ^2 /NDF: 2974751.8/63

All: 6110.623 $\pm$ 0.505 χ^2 /NDF: 5342090.3/12

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -19.324 $\pm$ 3.893 χ^2/NDF : 53.3/34

Left Out: -9.554 $\pm$ 2.012 χ^2/NDF : 59.5/24

Right Out: 19.701 $\pm$ 3.978 χ^2/NDF : 50.4/38

Left In: 0.072 $\pm$ 2.073 χ^2/NDF : 29.8/22

Left: -4.885 $\pm$ 1.444 χ^2/NDF : 100.5/47

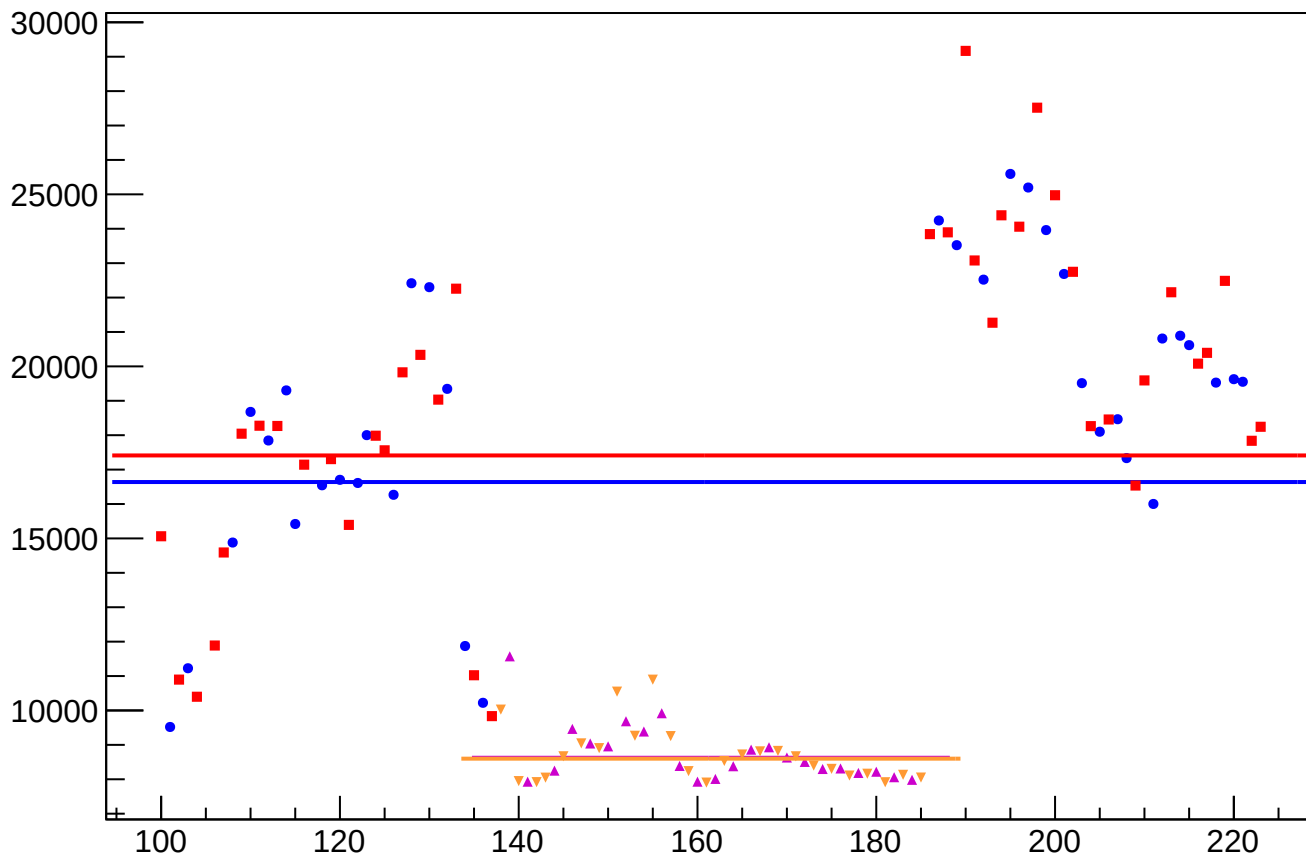
Right: -0.236 $\pm$ 2.782 χ^2/NDF : 152.9/73

In: -4.213 $\pm$ 1.830 χ^2/NDF : 102.5/57

Out: -3.597 $\pm$ 1.795 χ^2/NDF : 153.0/63

All: -3.899 $\pm$ 1.281 χ^2/NDF : 255.5/121

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16638.793 $\pm$ 2.753 χ^2 /NDF: 3037592.6/34

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF: 249070.5/24

Right Out: 17411.573 $\pm$ 2.813 χ^2 /NDF: 2921707.5/38

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

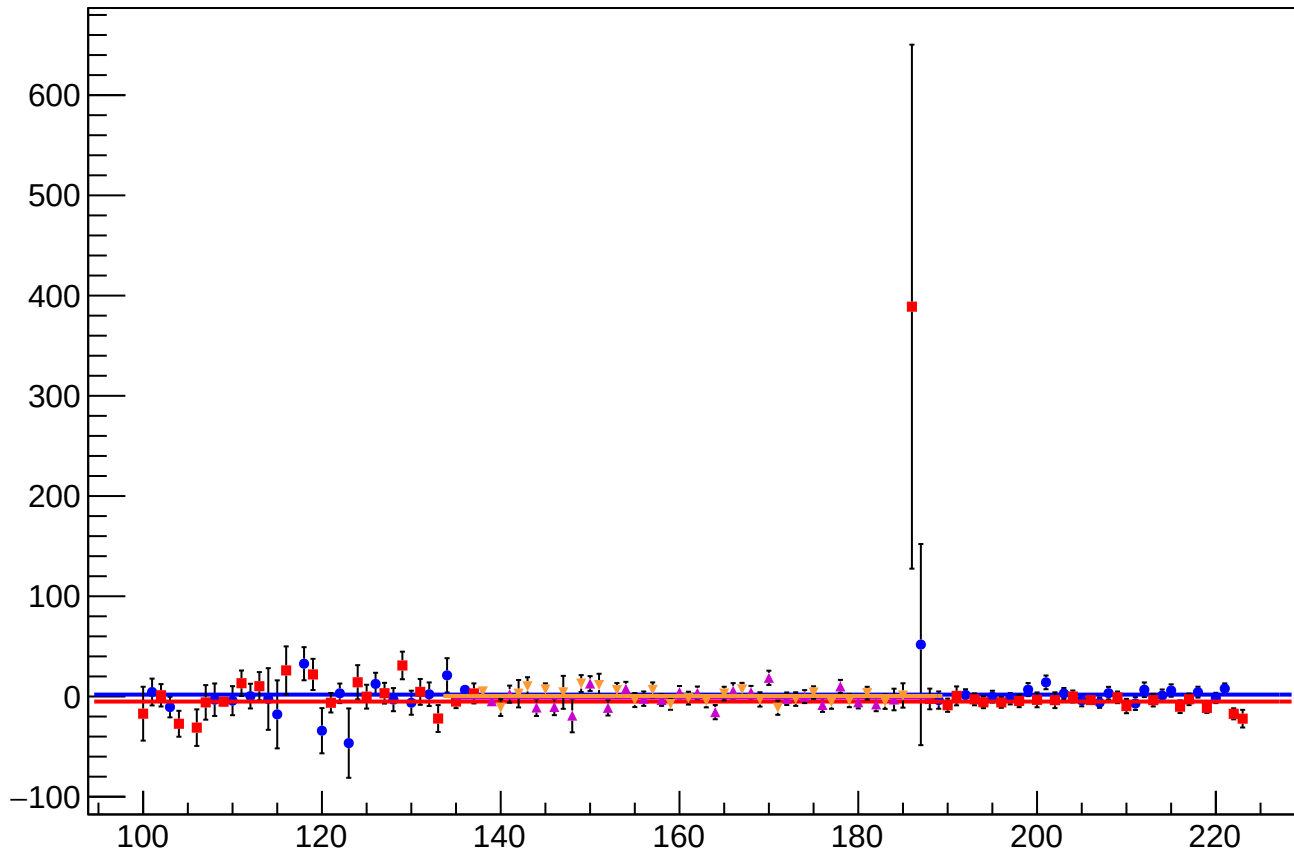
Right: 17016.772 $\pm$ 1.967 χ^2 /NDF: 5997852.9/73

In: 10395.386 $\pm$ 1.294 χ^2 /NDF: 9878491.3/57

Out: 10393.551 $\pm$ 1.269 χ^2 /NDF: 10985994.2/63

All: 10394.451 $\pm$ 0.906 χ^2 /NDF: 20864486.5

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.877 ± 1.283 $\chi^2/\text{NDF}: 27.3/34$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -5.054 ± 1.245 $\chi^2/\text{NDF}: 41.3/38$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

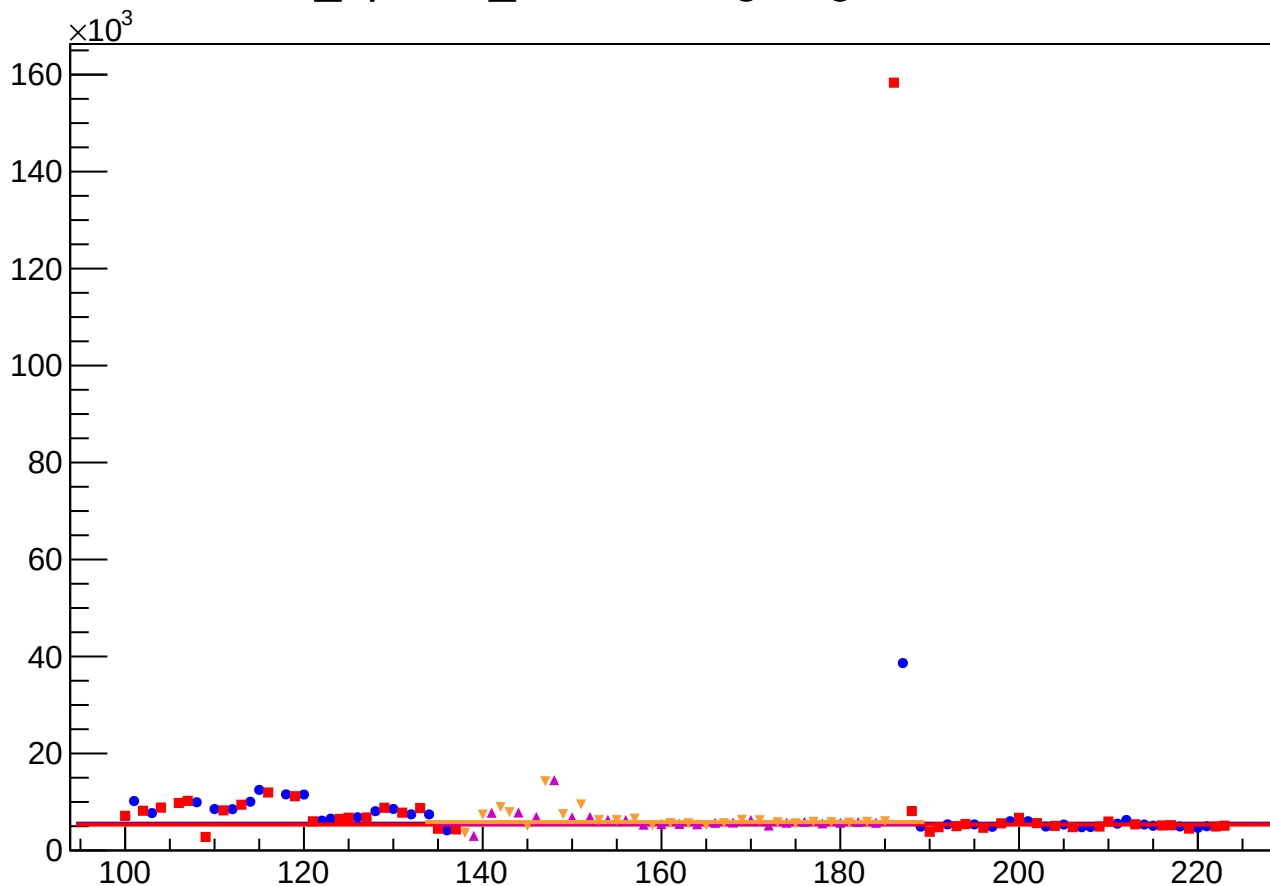
Right: -1.692 ± 0.894 $\chi^2/\text{NDF}: 83.6/73$

In: 0.537 ± 0.945 $\chi^2/\text{NDF}: 62.2/57$

Out: -2.622 ± 0.936 $\chi^2/\text{NDF}: 69.5/63$

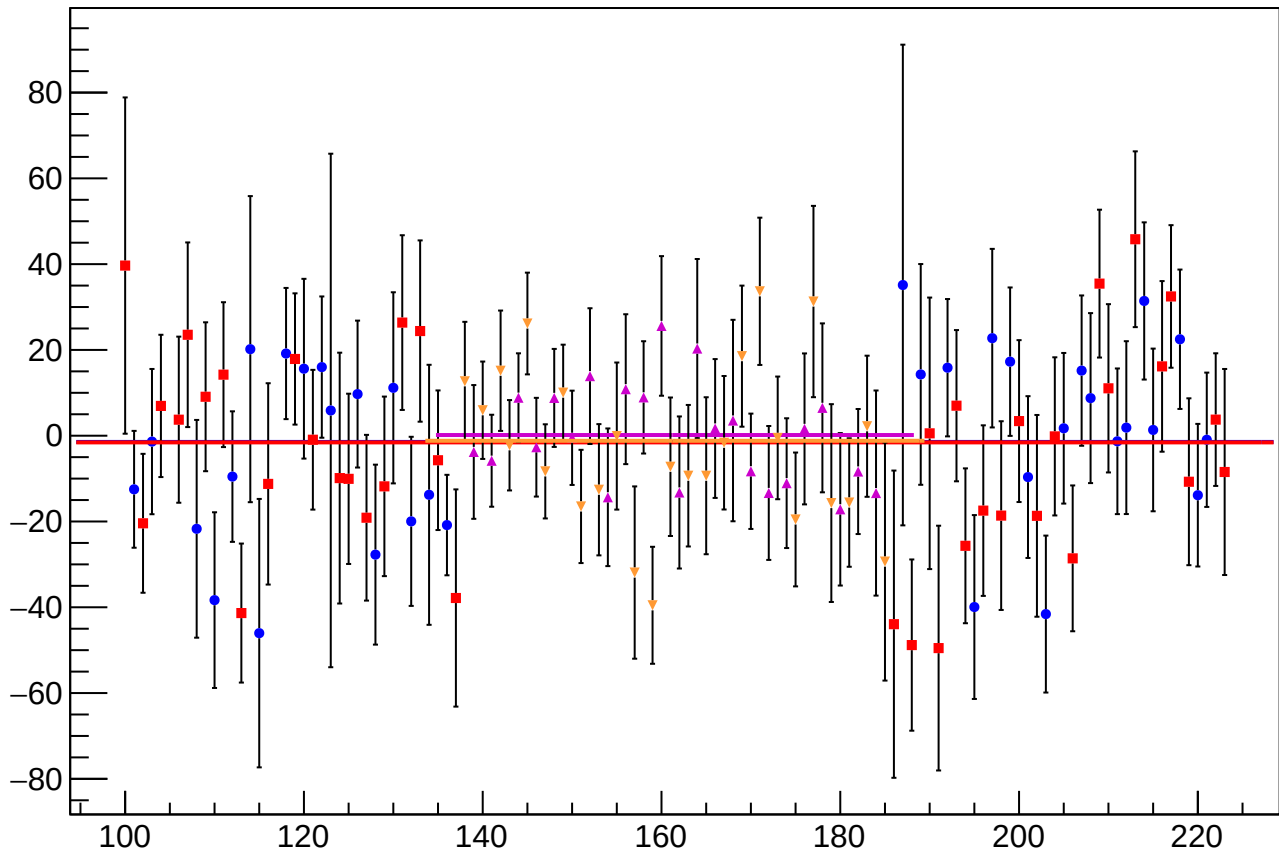
All: -1.058 ± 0.665 $\chi^2/\text{NDF}: 137.4/121$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5524.054+/-0.907	χ^2/NDF : 2257198.4/34	Left: 5713.698+/-0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605+/-1.002	χ^2/NDF : 1690049.2/24	Right: 5425.731+/-0.632	χ^2/NDF : 5822373.0/73
Right Out: 5333.121+/-0.881	χ^2/NDF : 3542370.8/38	In: 5545.712+/-0.668	χ^2/NDF : 4421230.4/57
Left In: 5571.330+/-0.987	χ^2/NDF : 2162788.3/22	Out: 5562.875+/-0.662	χ^2/NDF : 5388714.1/63
		All: 5554.375+/-0.470	χ^2/NDF : 9810277.9/12

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -1.451 ± 3.167 χ^2/NDF : 36.8/34

Left Out: -1.182 ± 2.939 χ^2/NDF : 33.7/24

Right Out: -1.561 ± 3.123 χ^2/NDF : 52.1/38

Left In: 0.157 ± 3.058 χ^2/NDF : 11.5/22

Left: -0.539 ± 2.119 χ^2/NDF : 45.3/47

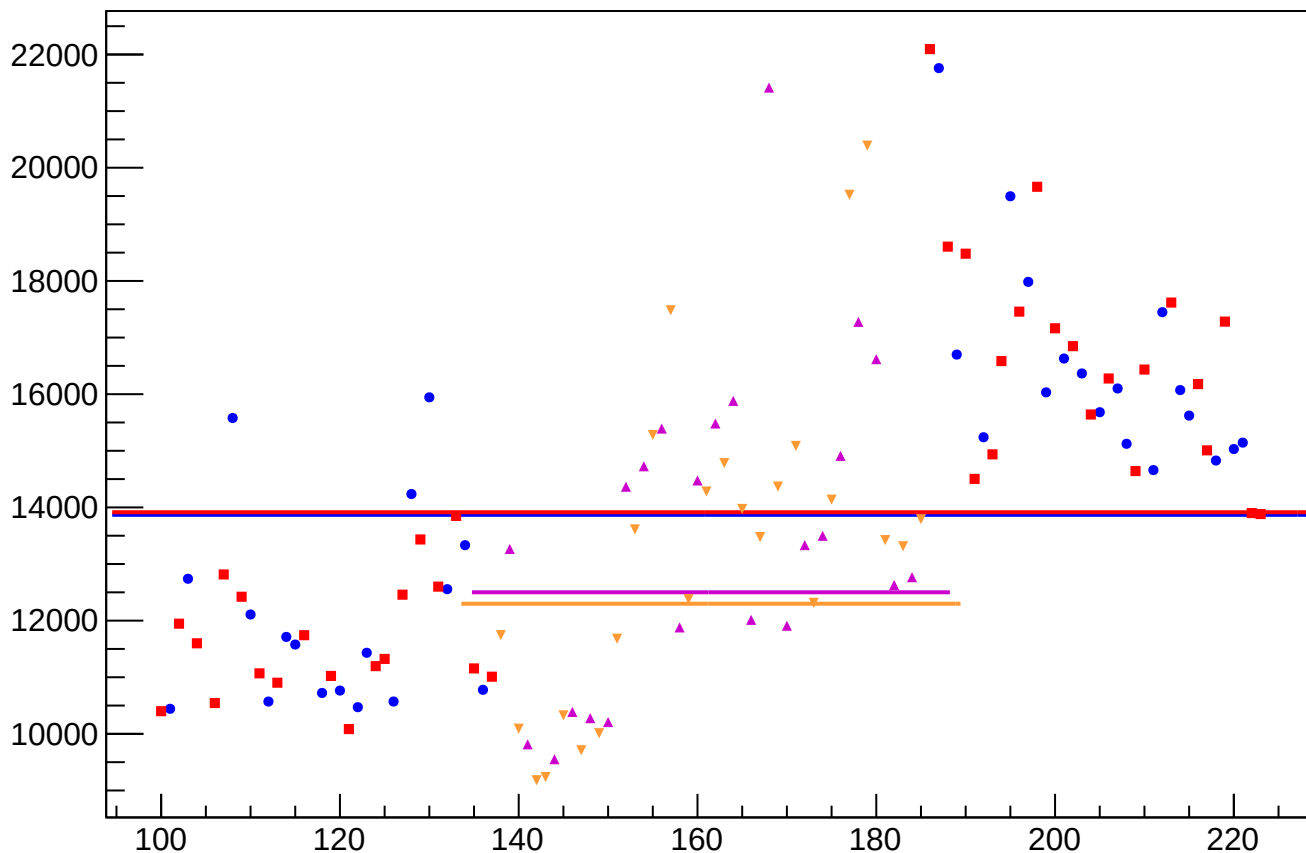
Right: -1.507 ± 2.224 χ^2/NDF : 88.9/73

In: -0.619 ± 2.200 χ^2/NDF : 48.5/57

Out: -1.360 ± 2.140 χ^2/NDF : 85.8/63

All: -1.000 ± 1.534 χ^2/NDF : 134.3/121

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13869.226+/-2.240

χ^2/NDF : 1340287.2/34

Left: 12395.720+/-1.498 χ^2/NDF : 2868458.0/47

Right: 13892.303+/-1.572 χ^2/NDF : 2837395.6/73

Left Out: 12298.676+/-2.078

χ^2/NDF : 1506026.8/24

In: 13160.993+/-1.556 χ^2/NDF : 2891392.3/57

Right Out: 13914.737+/-2.208

χ^2/NDF : 1496899.0/38

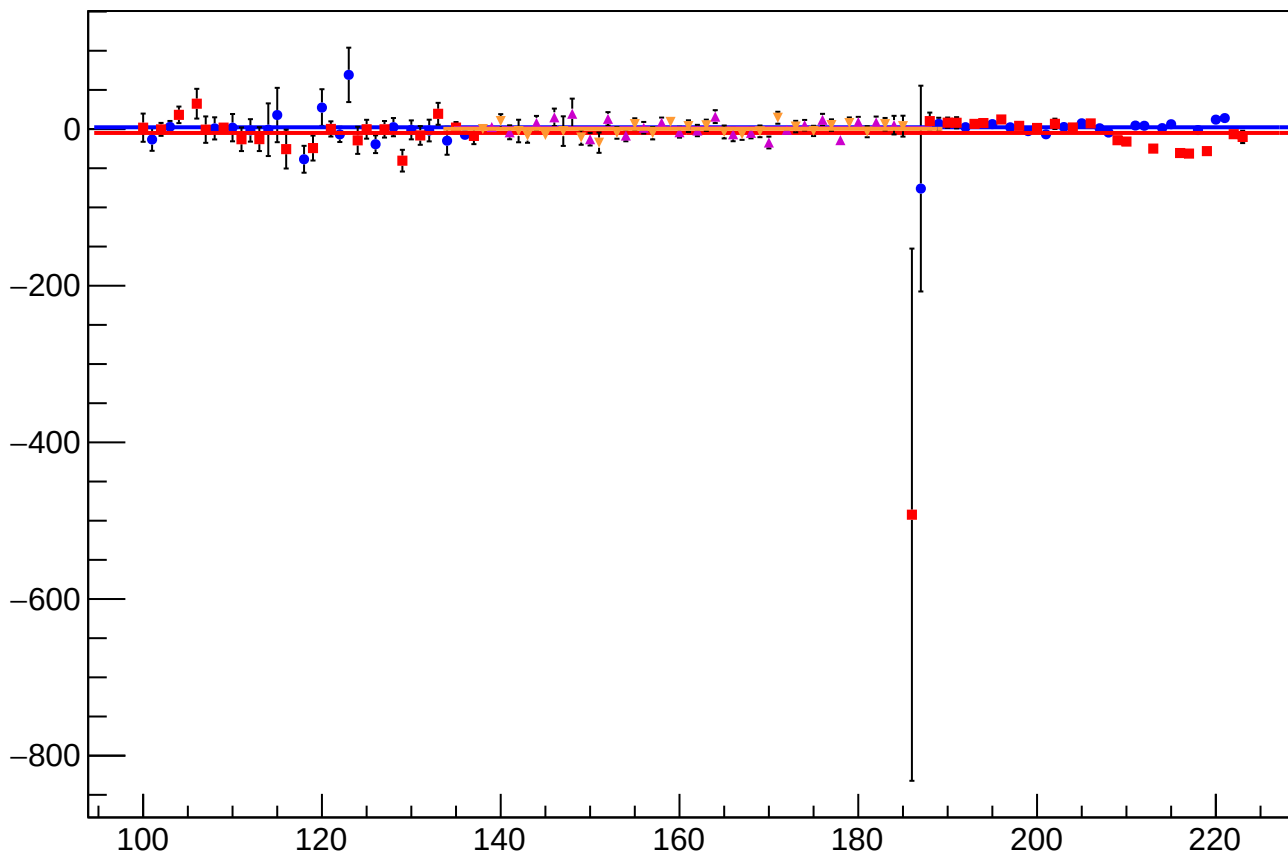
Out: 13057.675+/-1.513 χ^2/NDF : 3286962.6/63

Left In: 12500.795+/-2.162

χ^2/NDF : 1357889.1/22

All: 13107.911+/-1.085 χ^2/NDF : 6180621.3/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 2.288 ± 1.067 $\chi^2/\text{NDF}: 42.9/34$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: -4.940 ± 1.074 $\chi^2/\text{NDF}: 180.2/38$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

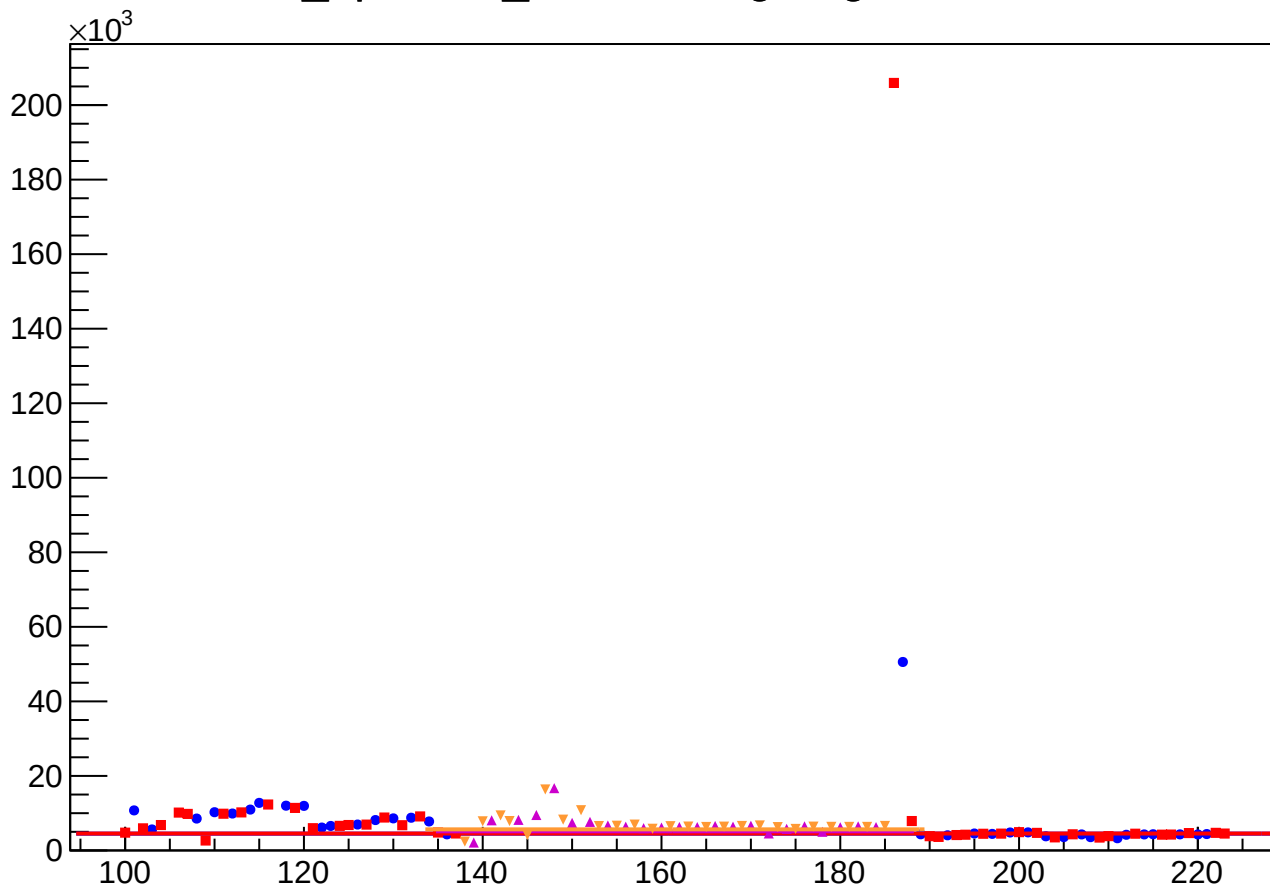
Right: -1.300 ± 0.757 $\chi^2/\text{NDF}: 245.9/73$

In: 1.865 ± 0.842 $\chi^2/\text{NDF}: 76.9/57$

Out: -3.036 ± 0.860 $\chi^2/\text{NDF}: 208.1/63$

All: -0.535 ± 0.602 $\chi^2/\text{NDF}: 301.6/121$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4506.817 ± 0.754 $\chi^2/\text{NDF}: 3453828.3/34$

Left Out: 5659.441 ± 1.014 $\chi^2/\text{NDF}: 4128583.6/24$

Right Out: 4539.322 ± 0.760 $\chi^2/\text{NDF}: 3976634.2/38$

Left In: 5137.772 ± 0.970 $\chi^2/\text{NDF}: 5495609.7/22$

Left: 5387.078 ± 0.701 $\chi^2/\text{NDF}: 9762498.7/47$

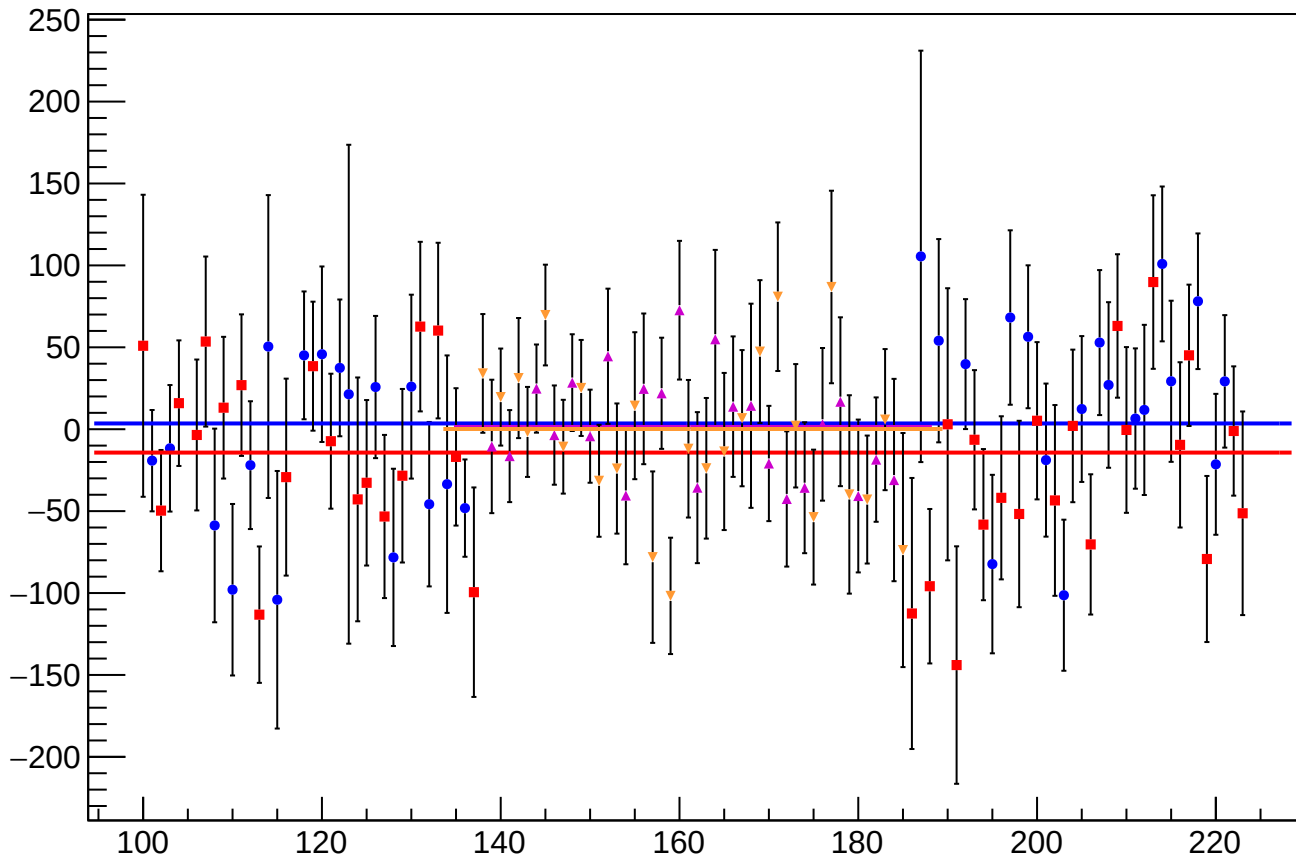
Right: 4522.953 ± 0.535 $\chi^2/\text{NDF}: 7431384.5/73$

In: 4744.646 ± 0.595 $\chi^2/\text{NDF}: 9213217.4/57$

Out: 4942.209 ± 0.608 $\chi^2/\text{NDF}: 8887240.2/63$

All: 4841.373 ± 0.425 $\chi^2/\text{NDF}: 18154370.9/131$

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 3.520 ± 7.948 $\chi^2/\text{NDF}: 40.5/34$

Left Out: 0.143 ± 7.683 $\chi^2/\text{NDF}: 31.3/24$

Right Out: -14.266 ± 7.836 $\chi^2/\text{NDF}: 42.2/38$

Left In: 1.374 ± 7.990 $\chi^2/\text{NDF}: 13.3/22$

Left: 0.734 ± 5.538 $\chi^2/\text{NDF}: 44.6/47$

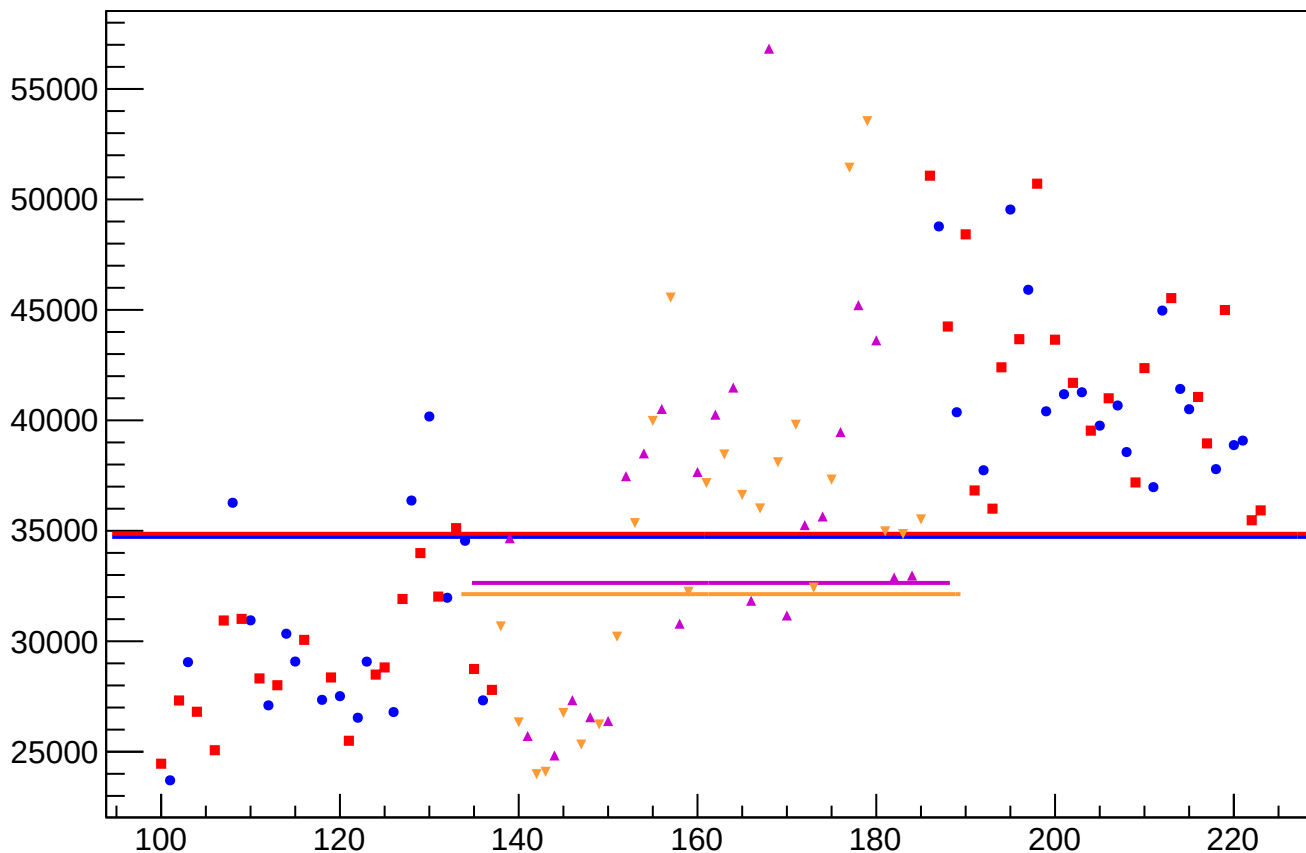
Right: -5.500 ± 5.580 $\chi^2/\text{NDF}: 85.2/73$

In: 2.452 ± 5.635 $\chi^2/\text{NDF}: 53.8/57$

Out: -6.920 ± 5.486 $\chi^2/\text{NDF}: 75.2/63$

All: -2.360 ± 3.931 $\chi^2/\text{NDF}: 130.4/121$

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34725.480+/-5.620

χ^2/NDF : 1484048.3/34

Left Out: 32132.314+/-5.433

χ^2/NDF :1540079.4/24

Right Out: 34864.932+/-5.541

χ^2/NDF : 1608341.8/38

Left In: 32641.162+/-5.650

χ^2/NDF :1402162.4/22

Left: 32376.774+/-3.916 χ^2/NDF : 2946456.2/47

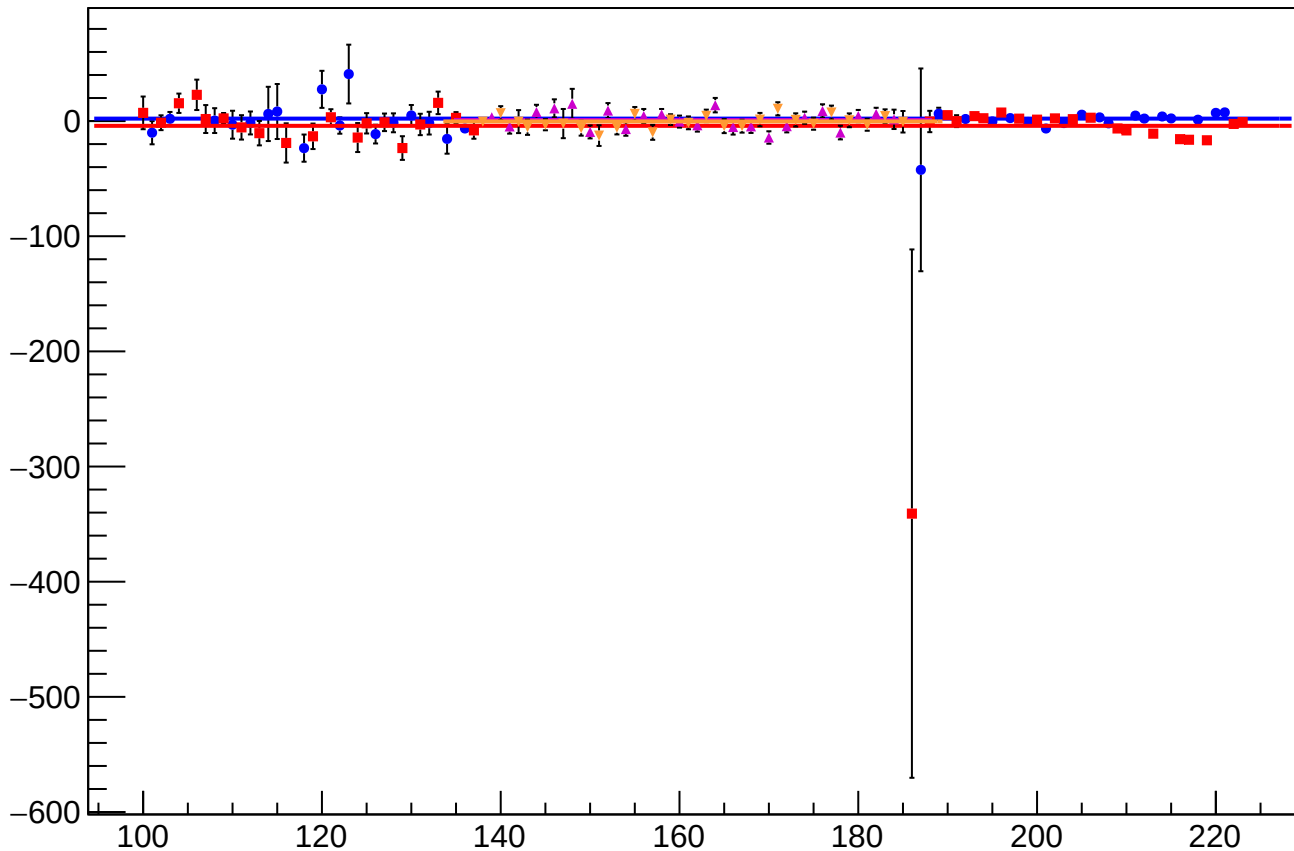
Right: 34796.200+/-3.946 χ^2/NDF : 3092702.4/73

In: 33688.822+/-3.985 χ^2/NDF :2954616.2/57

Out: 33471.790+/-3.879 χ^2/NDF :3272429.8/63

All: 33577.397+/-2.780 χ^2/NDF : 6228569.2/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 2.123 ± 0.602 $\chi^2/\text{NDF}: 52.6/34$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: -4.148 ± 0.632 $\chi^2/\text{NDF}: 171.2/38$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

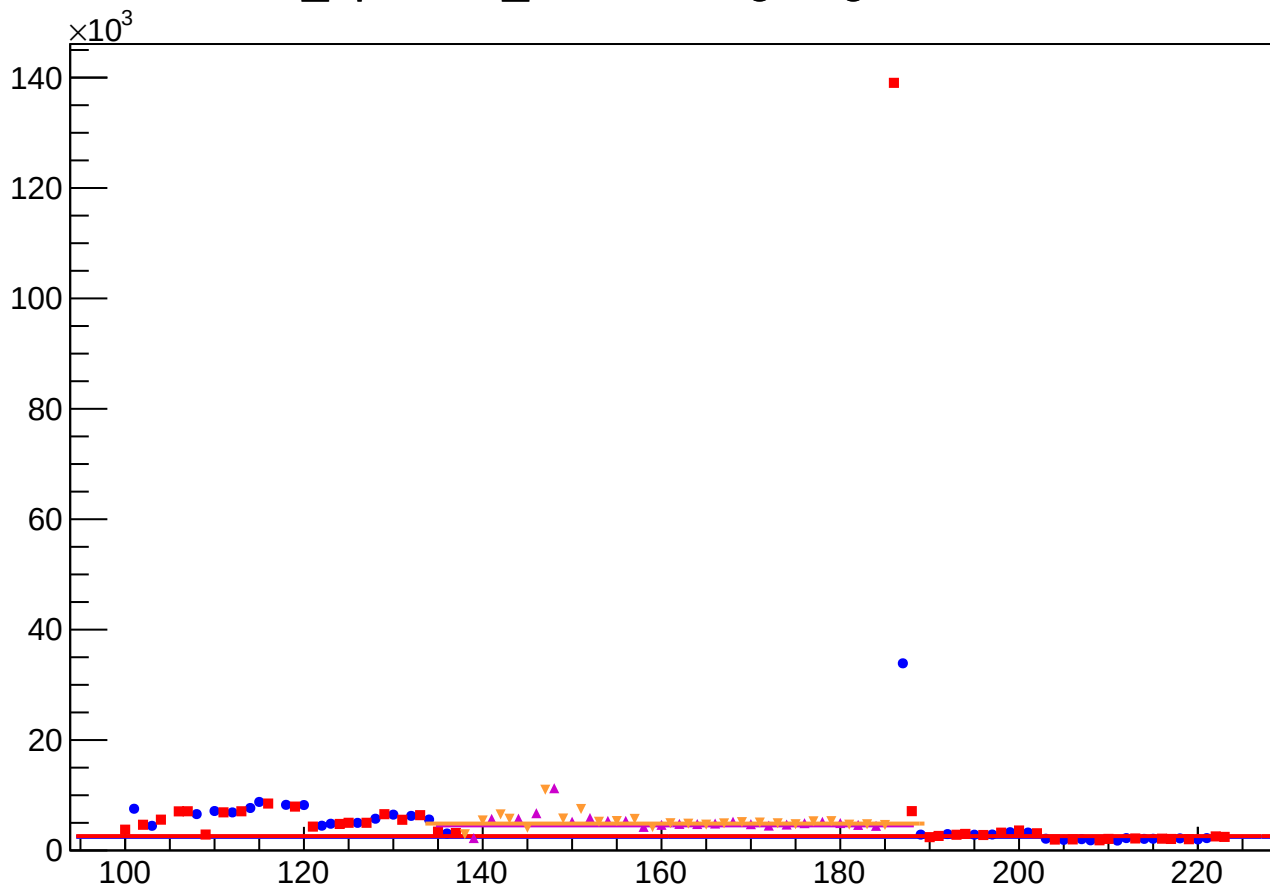
Right: -0.862 ± 0.436 $\chi^2/\text{NDF}: 275.5/73$

In: 1.859 ± 0.533 $\chi^2/\text{NDF}: 89.7/57$

Out: -3.285 ± 0.556 $\chi^2/\text{NDF}: 197.2/63$

All: -0.602 ± 0.385 $\chi^2/\text{NDF}: 331.5/121$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2464.517 $\pm$ 0.426 χ^2/NDF : 5668648.1/34

Left Out: 4868.567 $\pm$ 0.829 χ^2/NDF : 1511151.0/24

Right Out: 2600.163 $\pm$ 0.447 χ^2/NDF : 6209857.1/38

Left In: 4544.337 $\pm$ 0.808 χ^2/NDF : 2634314.4/22

Left: 4702.320 $\pm$ 0.578 χ^2/NDF : 4223993.0/47

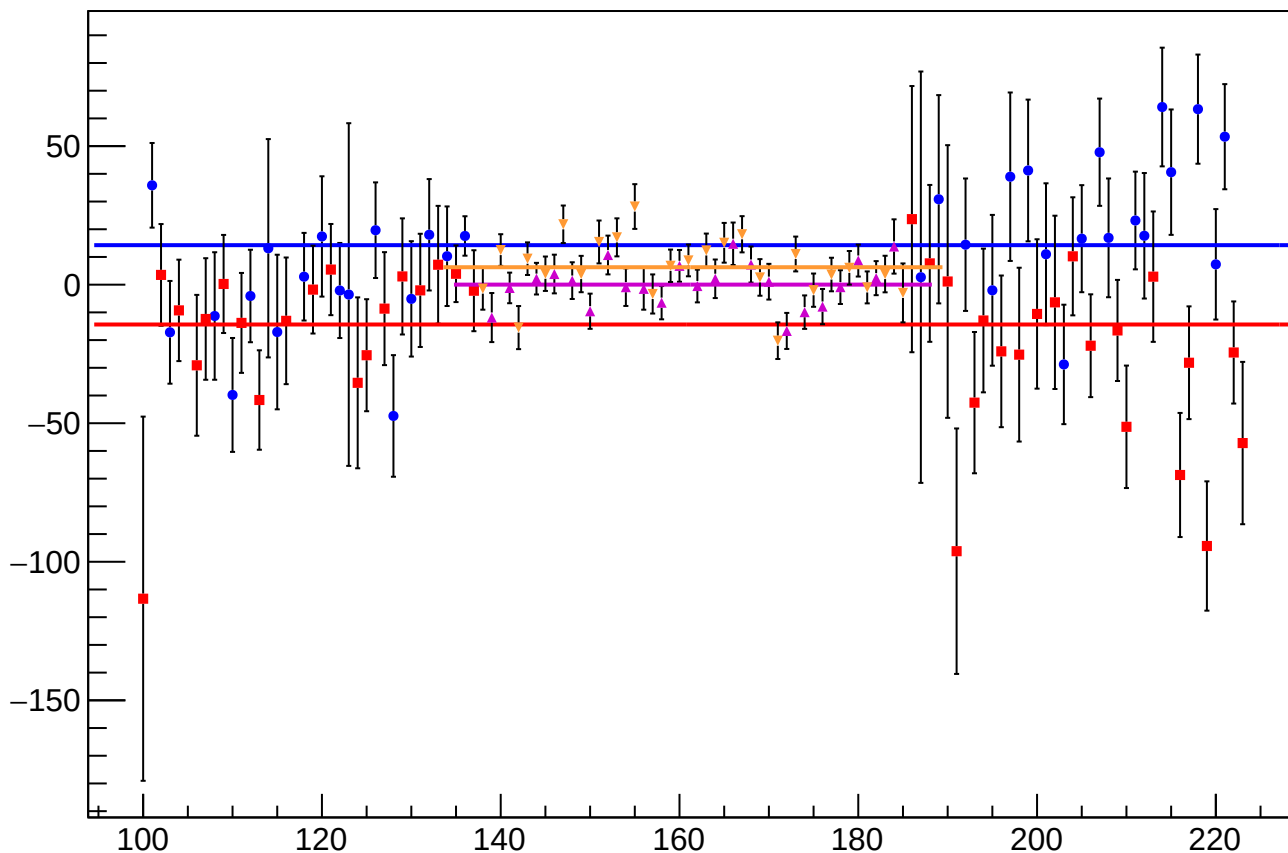
Right: 2529.080 $\pm$ 0.308 χ^2/NDF : 11926844.3/73

In: 2916.608 $\pm$ 0.377 χ^2/NDF : 13492922.0/57

Out: 3110.923 $\pm$ 0.393 χ^2/NDF : 13529506.1/63

All: 3009.580 $\pm$ 0.272 χ^2/NDF : 27149841.6/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 14.258 ± 3.248 $\chi^2/\text{NDF}: 53.2/34$

Left Out: 6.296 ± 1.310 $\chi^2/\text{NDF}: 56.5/24$

Right Out: -14.373 ± 3.361 $\chi^2/\text{NDF}: 47.2/38$

Left In: 0.020 ± 1.353 $\chi^2/\text{NDF}: 29.9/22$

Left: 3.259 ± 0.941 $\chi^2/\text{NDF}: 97.5/47$

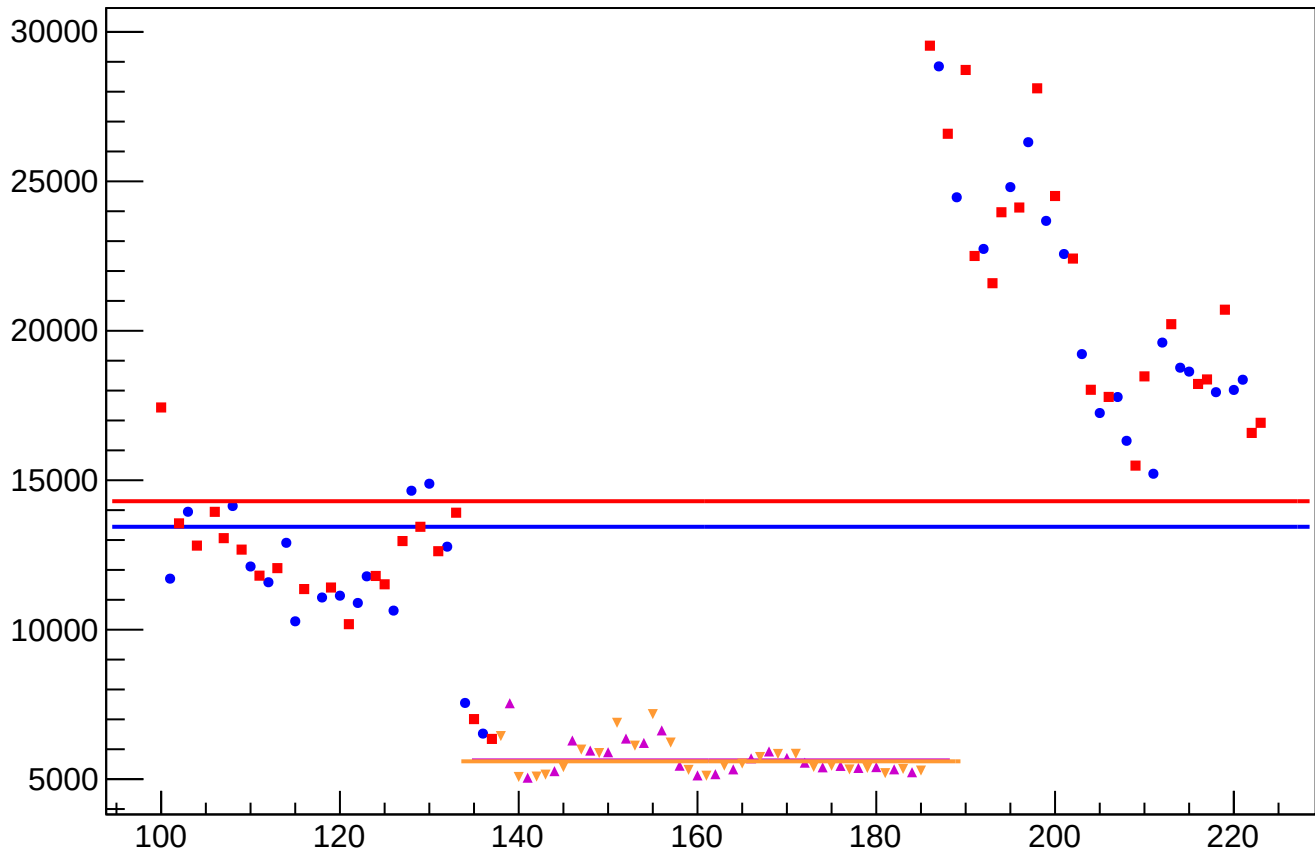
Right: 0.433 ± 2.335 $\chi^2/\text{NDF}: 137.9/73$

In: 2.126 ± 1.249 $\chi^2/\text{NDF}: 99.5/57$

Out: 3.569 ± 1.221 $\chi^2/\text{NDF}: 136.6/63$

All: 2.864 ± 0.873 $\chi^2/\text{NDF}: 236.8/121$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13443.027+/-2.296 χ^2/NDF : 5321840.5/34

Left Out: 5596.370+/-0.926 χ^2/NDF : 283998.1/24

Right Out: 14298.628+/-2.376 χ^2/NDF : 5031614.2/38

Left In: 5627.283+/-0.957 χ^2/NDF : 279318.7/22

Left: 5611.329+/-0.666 χ^2/NDF : 563855.6/47

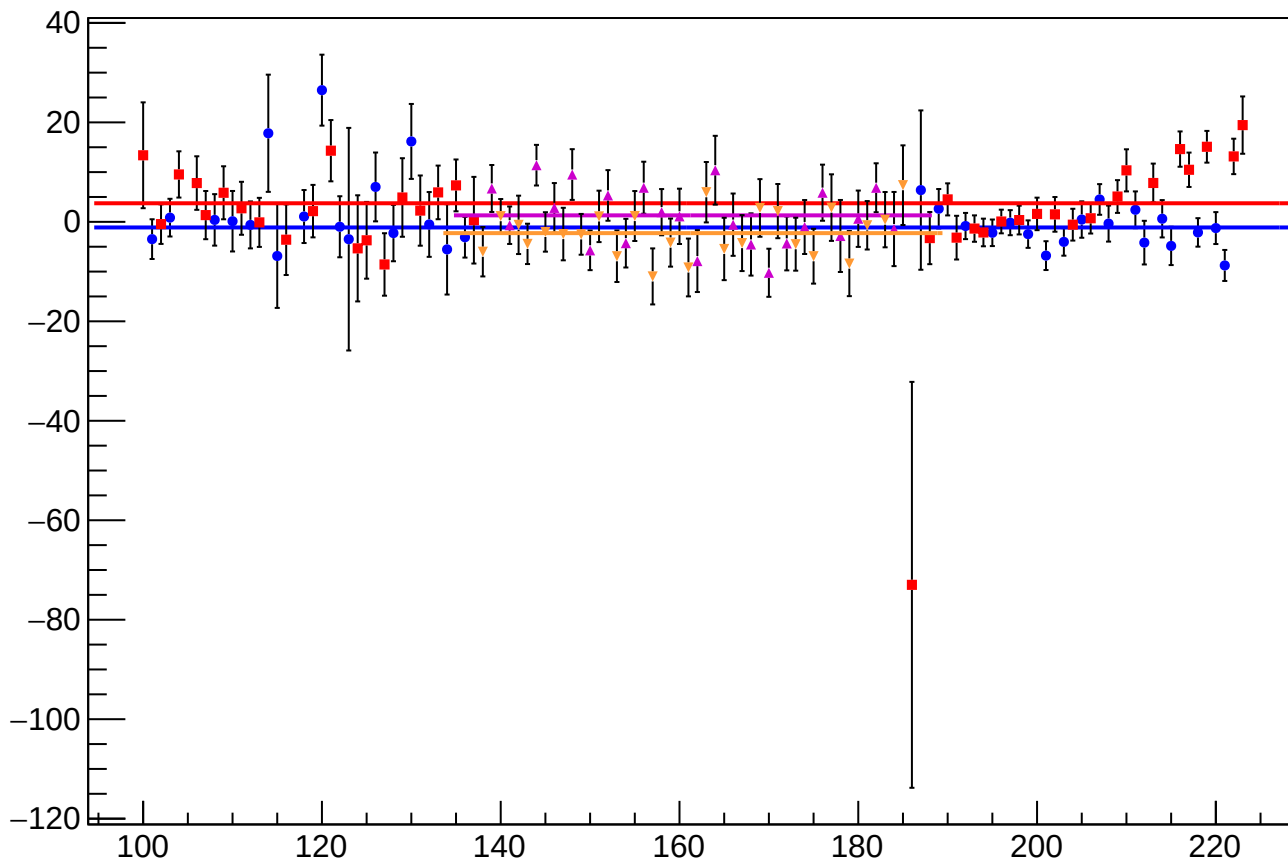
Right: 13856.185+/-1.651 χ^2/NDF : 10420483.7/73

In: 6783.272+/-0.883 χ^2/NDF : 15470891.4/57

Out: 6744.412+/-0.863 χ^2/NDF : 16955692.3/63

All: 6763.397+/-0.617 χ^2/NDF : 32427573.9/117

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -1.128 ± 0.669 χ^2/NDF : 44.8/34

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 3.736 ± 0.663 χ^2/NDF : 82.9/38

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

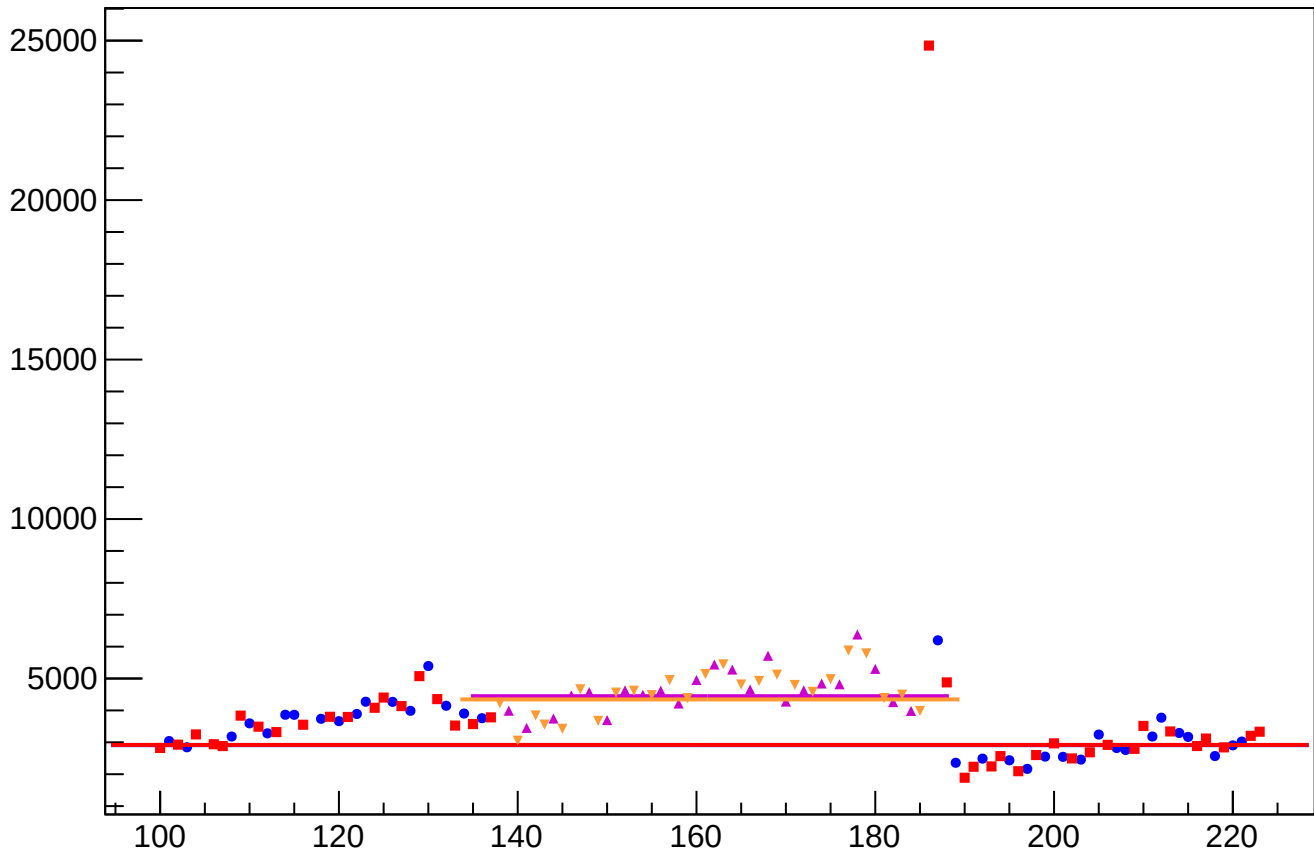
Right: 1.325 ± 0.471 χ^2/NDF : 154.4/73

In: -0.451 ± 0.568 χ^2/NDF : 79.3/57

Out: 1.977 ± 0.557 χ^2/NDF : 122.3/63

All: 0.786 ± 0.398 χ^2/NDF : 210.9/121

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2910.744+/-0.473 χ^2/NDF : 1451655.4/34

Left Out: 4345.381+/-0.728 χ^2/NDF : 1000636.1/24

Right Out: 2918.232+/-0.469 χ^2/NDF : 2371283.4/38

Left In: 4446.181+/-0.762 χ^2/NDF : 702797.6/22

Left: 4393.504+/-0.526 χ^2/NDF : 1712588.4/47

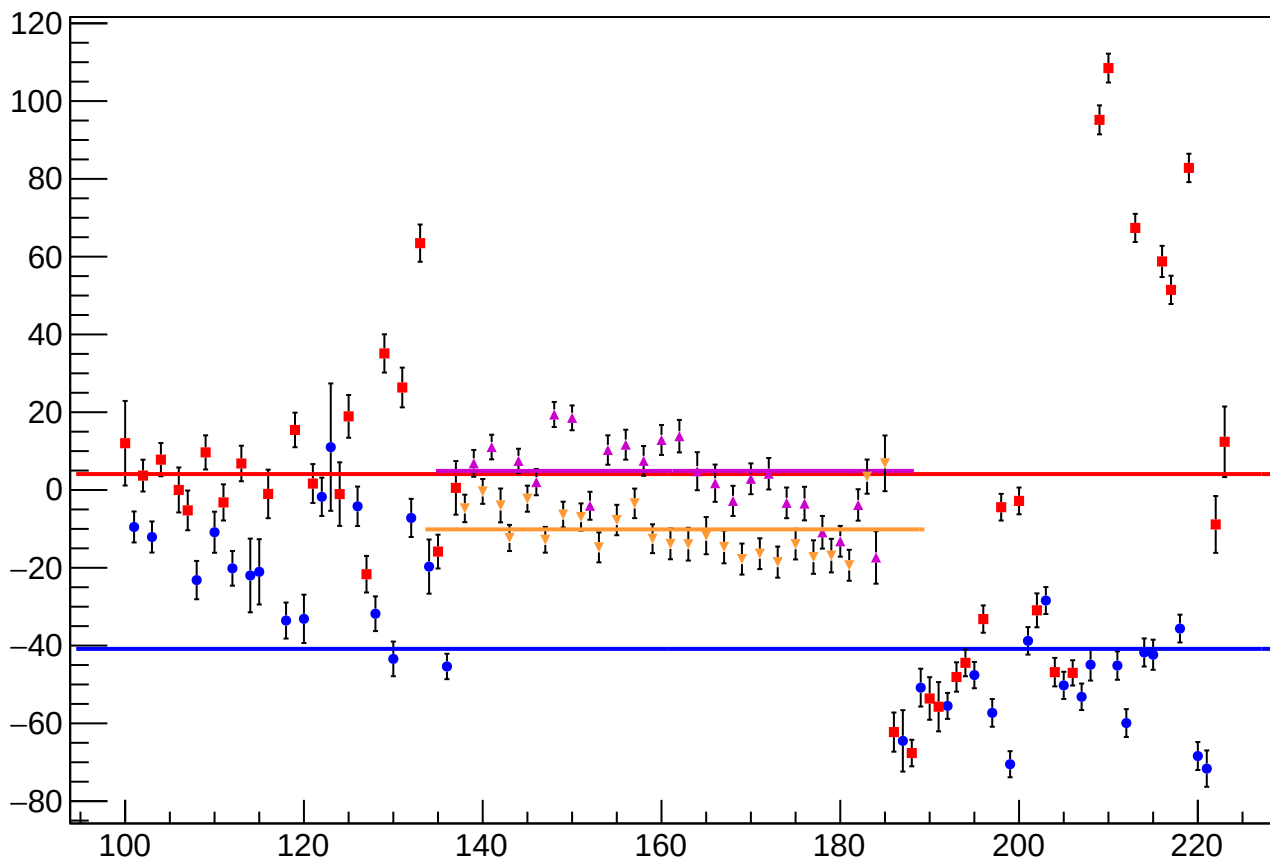
Right: 2914.520+/-0.333 χ^2/NDF : 3823065.4/73

In: 3337.803+/-0.402 χ^2/NDF : 5088553.6/57

Out: 3336.426+/-0.394 χ^2/NDF : 6089433.2/63

All: 3337.101+/-0.281 χ^2/NDF : 11177992.8/1

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -40.846 ± 0.710 $\chi^2/\text{NDF}: 686.6/34$

Left Out: -10.125 ± 0.775 $\chi^2/\text{NDF}: 67.9/24$

Right Out: 4.098 ± 0.704 $\chi^2/\text{NDF}: 4641.8/38$

Left In: 4.911 ± 0.797 $\chi^2/\text{NDF}: 127.9/22$

Left: -2.814 ± 0.556 $\chi^2/\text{NDF}: 378.7/47$

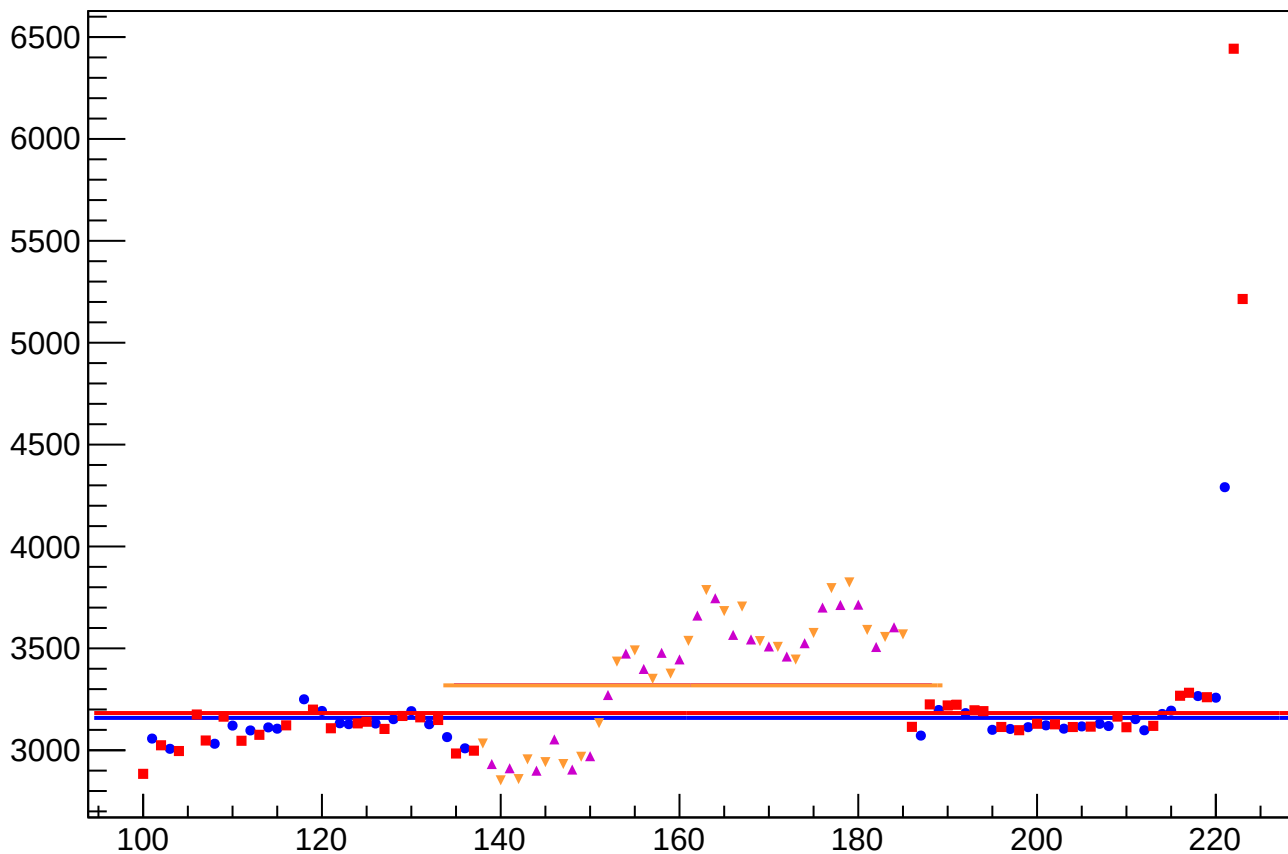
Right: -18.170 ± 0.500 $\chi^2/\text{NDF}: 7350.4/73$

In: -20.605 ± 0.530 $\chi^2/\text{NDF}: 2652.1/57$

Out: -2.323 ± 0.521 $\chi^2/\text{NDF}: 4894.2/63$

All: -11.306 ± 0.372 $\chi^2/\text{NDF}: 8151.2/121$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3158.765 $\pm$ 0.502 χ^2/NDF : 136533.2/34

Left Out: 3318.506 $\pm$ 0.548 χ^2/NDF : 337694.2/24

Right Out: 3182.656 $\pm$ 0.497 χ^2/NDF : 527948.5/38

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

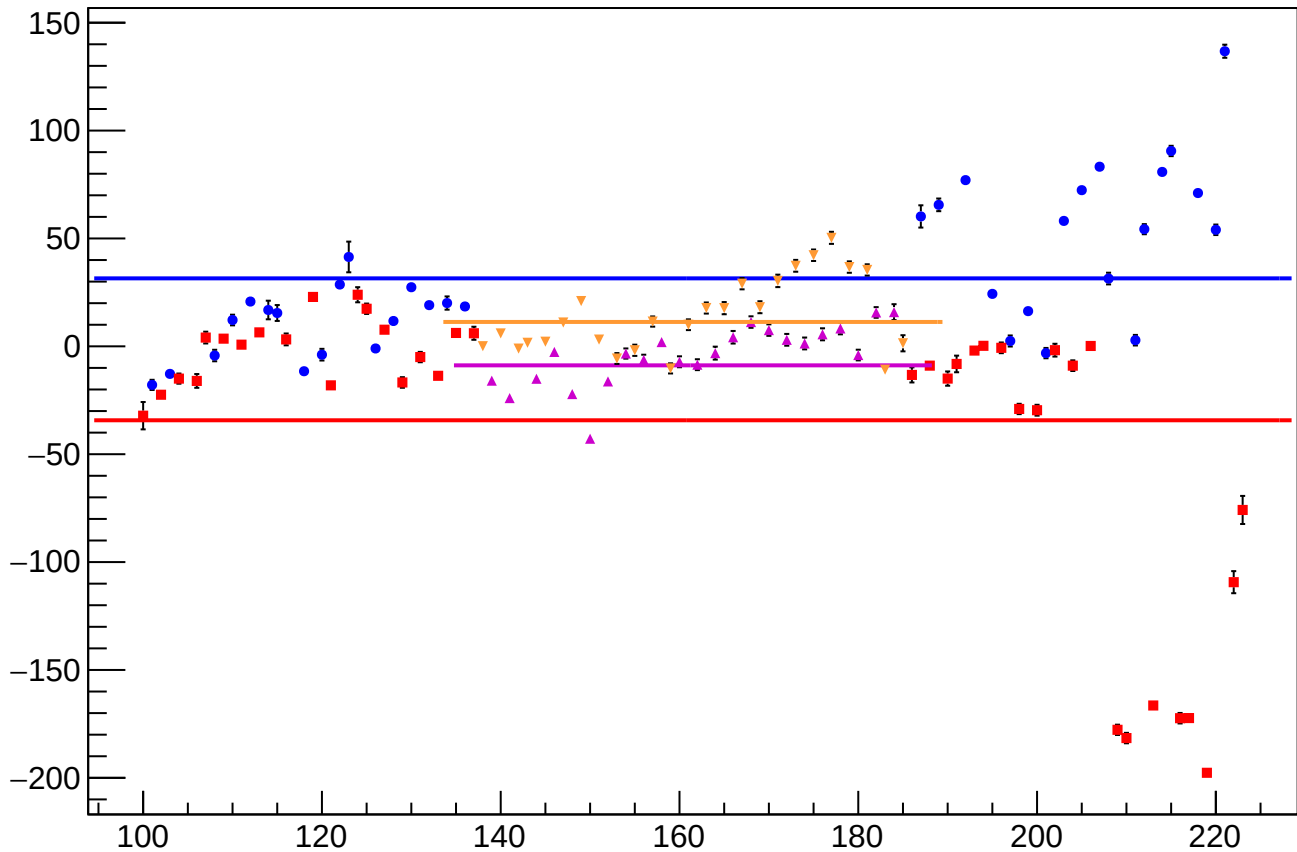
Right: 3170.818 $\pm$ 0.353 χ^2/NDF : 665624.4/73

In: 3230.162 $\pm$ 0.375 χ^2/NDF : 469895.5/57

Out: 3243.991 $\pm$ 0.368 χ^2/NDF : 899310.8/63

All: 3237.196 $\pm$ 0.263 χ^2/NDF : 1369898.5/12

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 31.503 ± 0.403 $\chi^2/\text{NDF}: 7125.3/34$

Left Out: 11.305 ± 0.454 $\chi^2/\text{NDF}: 1144.3/24$

Right Out: -34.276 ± 0.396 $\chi^2/\text{NDF}: 28763.1/38$

Left In: -8.815 ± 0.475 $\chi^2/\text{NDF}: 942.2/22$

Left: 1.711 ± 0.328 $\chi^2/\text{NDF}: 3023.6/47$

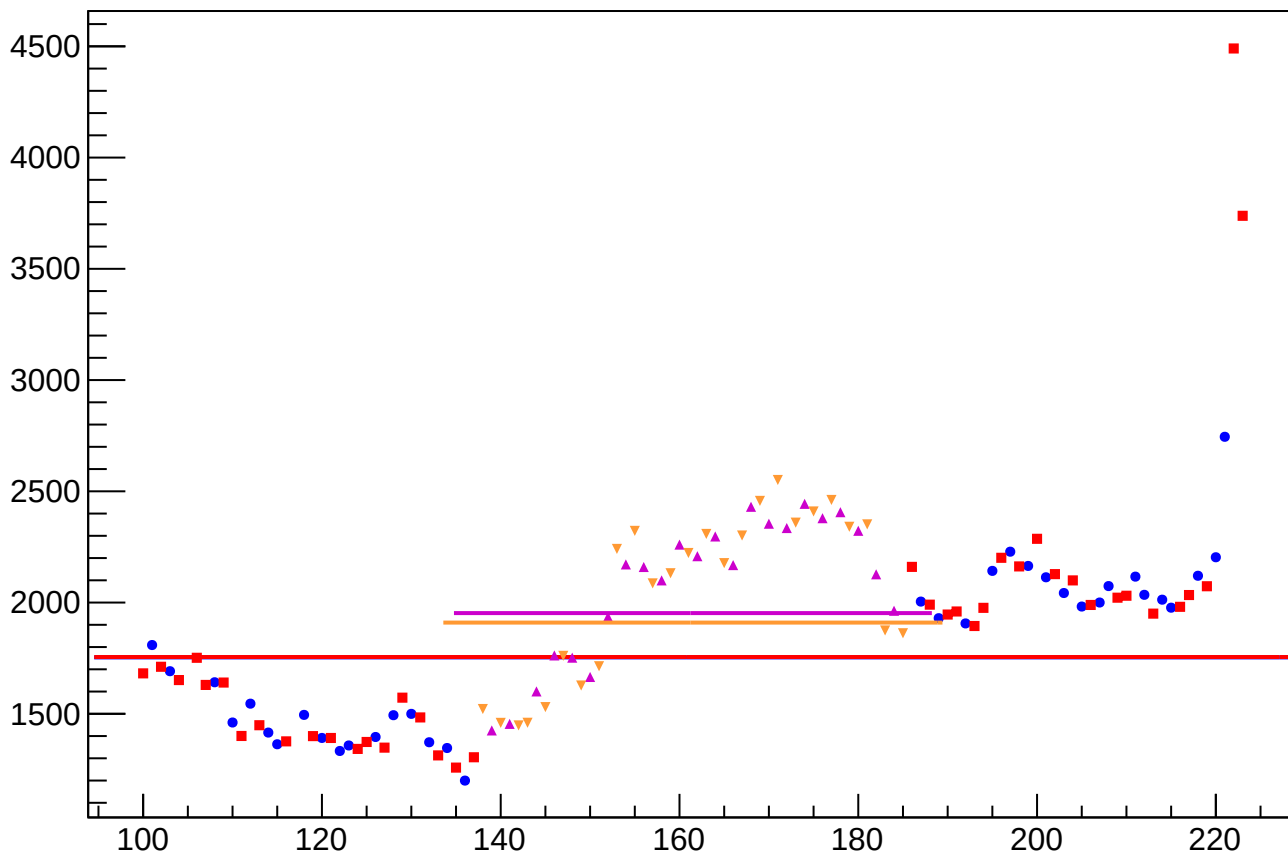
Right: -1.917 ± 0.282 $\chi^2/\text{NDF}: 49450.0/73$

In: 14.662 ± 0.307 $\chi^2/\text{NDF}: 12256.2/57$

Out: -14.564 ± 0.298 $\chi^2/\text{NDF}: 35631.9/63$

All: -0.374 ± 0.214 $\chi^2/\text{NDF}: 52543.8/121$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1753.524 ± 0.285 χ^2/NDF : 1610517.9/34

Left Out: 1909.963 ± 0.321 χ^2/NDF : 1399467.7/24

Right Out: 1755.176 ± 0.280 χ^2/NDF : 2056776.0/38

Left In: 1952.637 ± 0.336 χ^2/NDF : 1065333.8/22

Left: 1930.313 ± 0.232 χ^2/NDF : 2473233.3/47

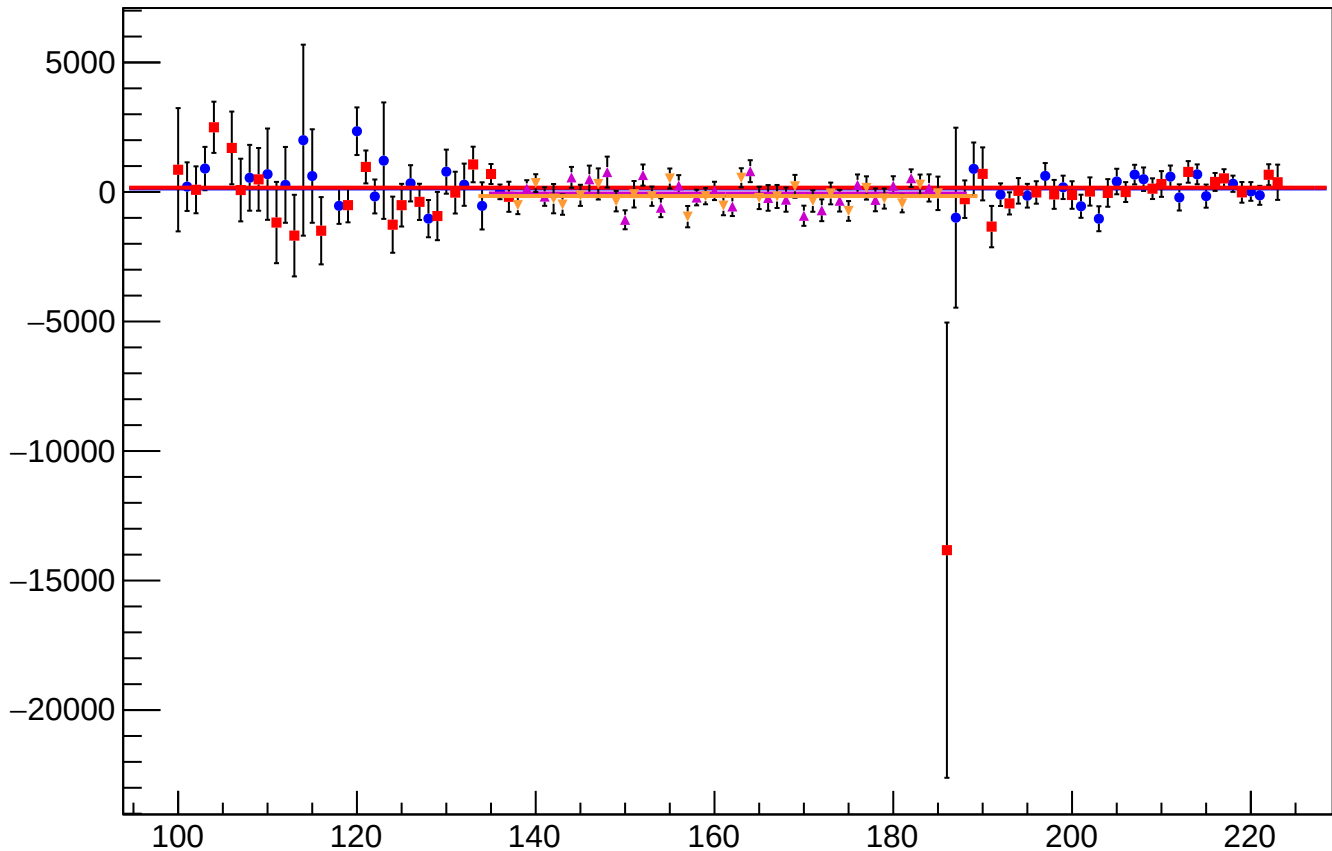
Right: 1754.364 ± 0.200 χ^2/NDF : 3667311.0/73

In: 1836.695 ± 0.217 χ^2/NDF : 2880171.9/57

Out: 1822.116 ± 0.211 χ^2/NDF : 3588272.6/63

All: 1829.194 ± 0.151 χ^2/NDF : 6470761.7/12

asym_sam1_mean vs Slug, Sign Corrected



Right In: 136.567 $\pm$ 90.380 χ^2 /NDF: 31.1/34

Left Out: -157.242 $\pm$ 80.796 χ^2 /NDF:22.0/24

Right Out: 166.061 $\pm$ 92.886 χ^2 /NDF: 37.0/38

Left In: -58.934 $\pm$ 82.584 χ^2 /NDF:38.5/22

Left: -109.164 $\pm$ 57.753 χ^2 /NDF: 61.3/47

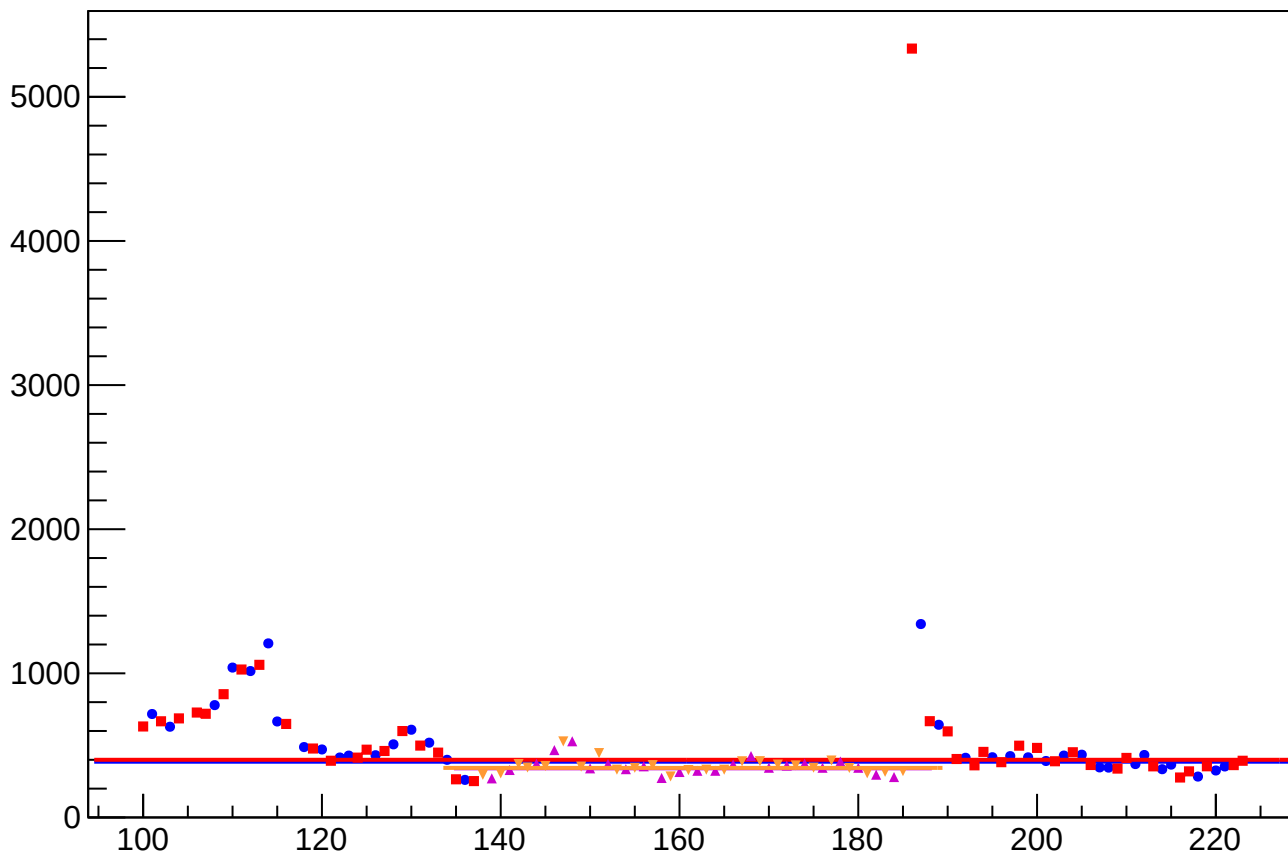
Right: 150.911 $\pm$ 64.776 χ^2 /NDF: 68.2/73

In: 30.023 $\pm$ 60.966 χ^2 /NDF:72.2/57

Out: -17.987 $\pm$ 60.961 χ^2 /NDF:66.0/63

All: 6.016 $\pm$ 43.108 χ^2 /NDF: 138.5/121

asym_sam1_rms vs Slug, Sign Corrected



Right In: 386.860 $\pm$ 0.064 χ^2 /NDF: 2854197.6/34

Left Out: 343.807 $\pm$ 0.057 χ^2 /NDF: 539431.0/24

Right Out: 400.083 $\pm$ 0.066 χ^2 /NDF: 3838285.5/38

Left In: 340.876 $\pm$ 0.058 χ^2 /NDF: 724672.0/22

Left: 342.374 $\pm$ 0.041 χ^2 /NDF: 1265389.7/47

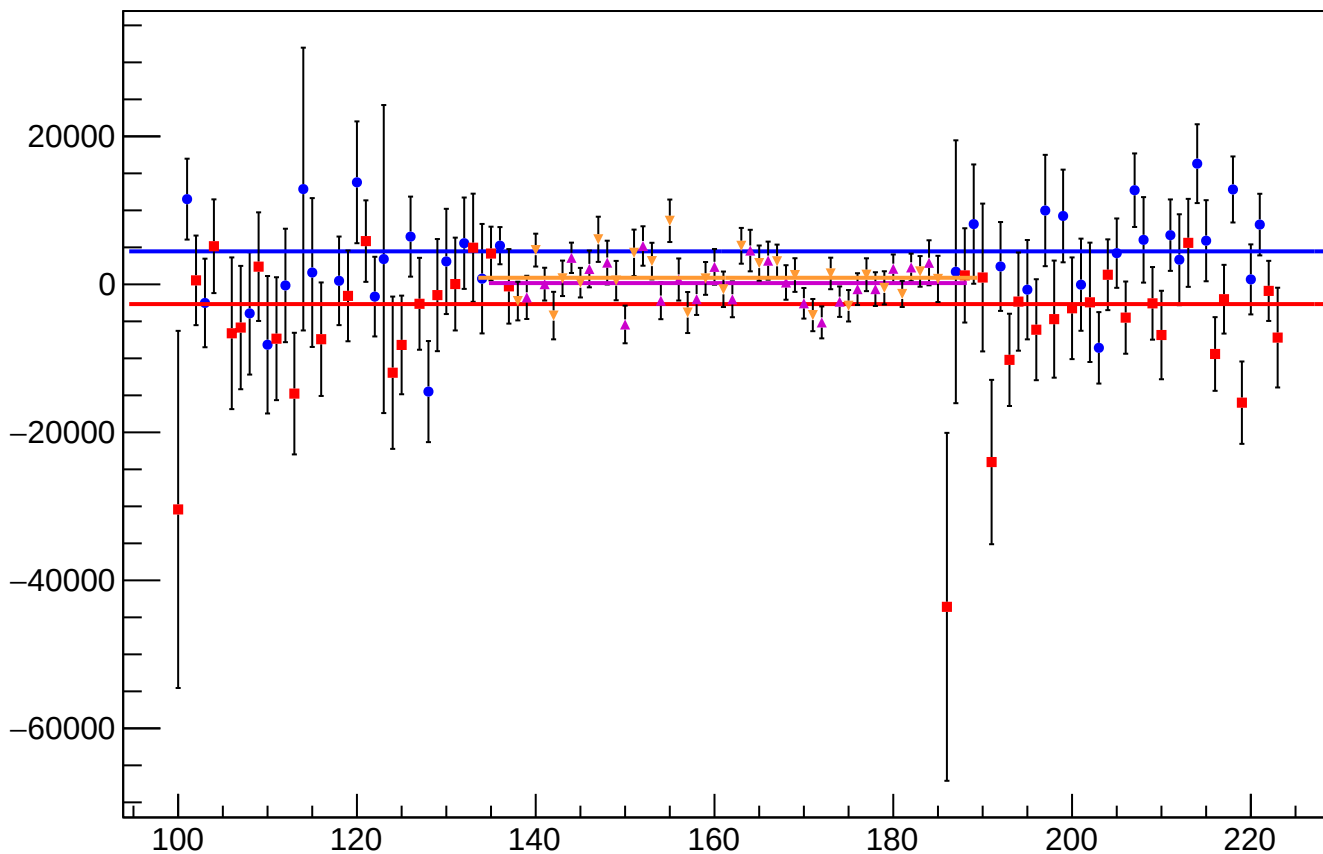
Right: 393.291 $\pm$ 0.046 χ^2 /NDF: 6713303.5/73

In: 361.800 $\pm$ 0.043 χ^2 /NDF: 3861018.2/57

Out: 368.047 $\pm$ 0.043 χ^2 /NDF: 4795653.5/63

All: 364.923 $\pm$ 0.030 χ^2 /NDF: 8667170.9/123

asym_sam2_mean vs Slug, Sign Corrected



Right In: 4460.063 $\pm$ 970.386 χ^2/NDF : 40.7/34

Left Out: 890.395 $\pm$ 473.262 χ^2/NDF : 38.0/24

Right Out: -2665.419 $\pm$ 1005.434 χ^2/NDF : 36.2/38

Left In: 172.391 $\pm$ 488.067 χ^2/NDF : 33.2/22

Left: 542.448 $\pm$ 339.760 χ^2/NDF : 72.3/47

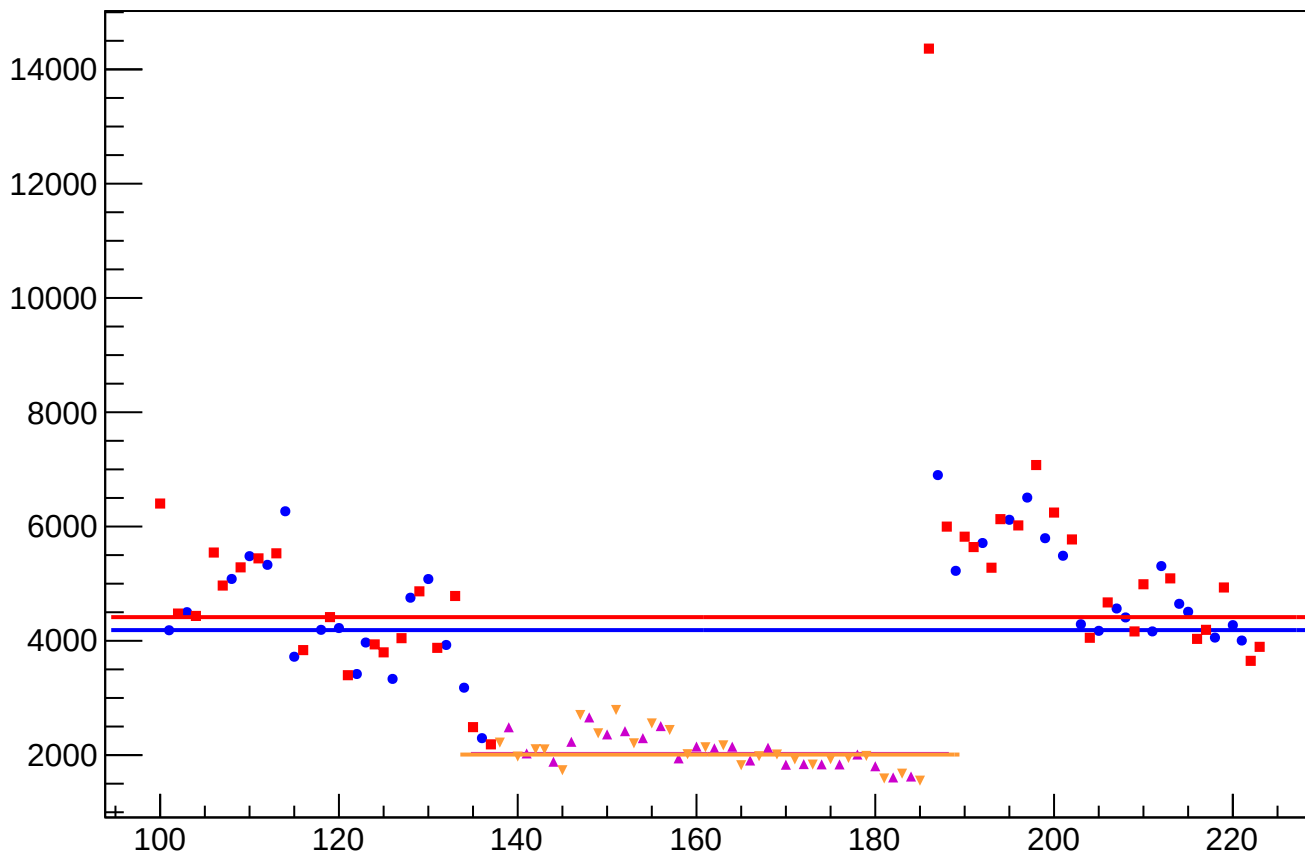
Right: 1023.677 $\pm$ 698.228 χ^2/NDF : 102.9/73

In: 1038.059 $\pm$ 436.023 χ^2/NDF : 89.5/57

Out: 245.454 $\pm$ 428.197 χ^2/NDF : 84.4/63

All: 634.580 $\pm$ 305.510 χ^2/NDF : 175.6/121

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4187.612 $\pm$ 0.686 χ^2/NDF : 2343404.3/34

Left Out: 2009.631 $\pm$ 0.335 χ^2/NDF : 709977.6/24

Right Out: 4414.627 $\pm$ 0.711 χ^2/NDF : 2667694.6/38

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

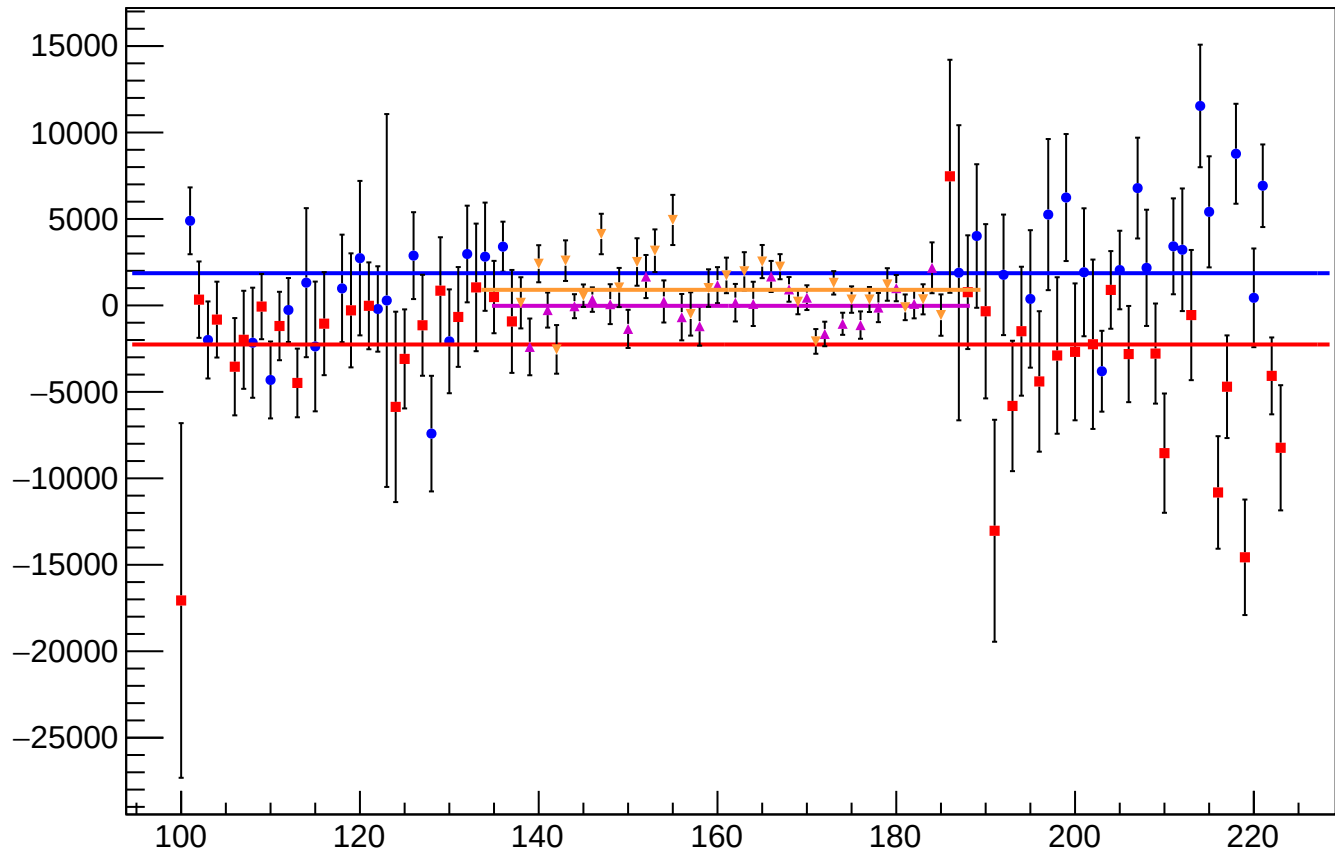
Right: 4297.094 $\pm$ 0.494 χ^2/NDF : 5063887.2/73

In: 2457.926 $\pm$ 0.308 χ^2/NDF : 10878791.3/57

Out: 2445.841 $\pm$ 0.303 χ^2/NDF : 12745440.0/63

All: 2451.774 $\pm$ 0.216 χ^2/NDF : 23625013.5/100

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1863.495 $\pm$ 477.598 χ^2/NDF : 59.9/34

Left Out: 902.091 $\pm$ 185.850 χ^2/NDF : 63.5/24

Right Out: -2259.070 $\pm$ 474.003 χ^2/NDF : 50.3/38

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

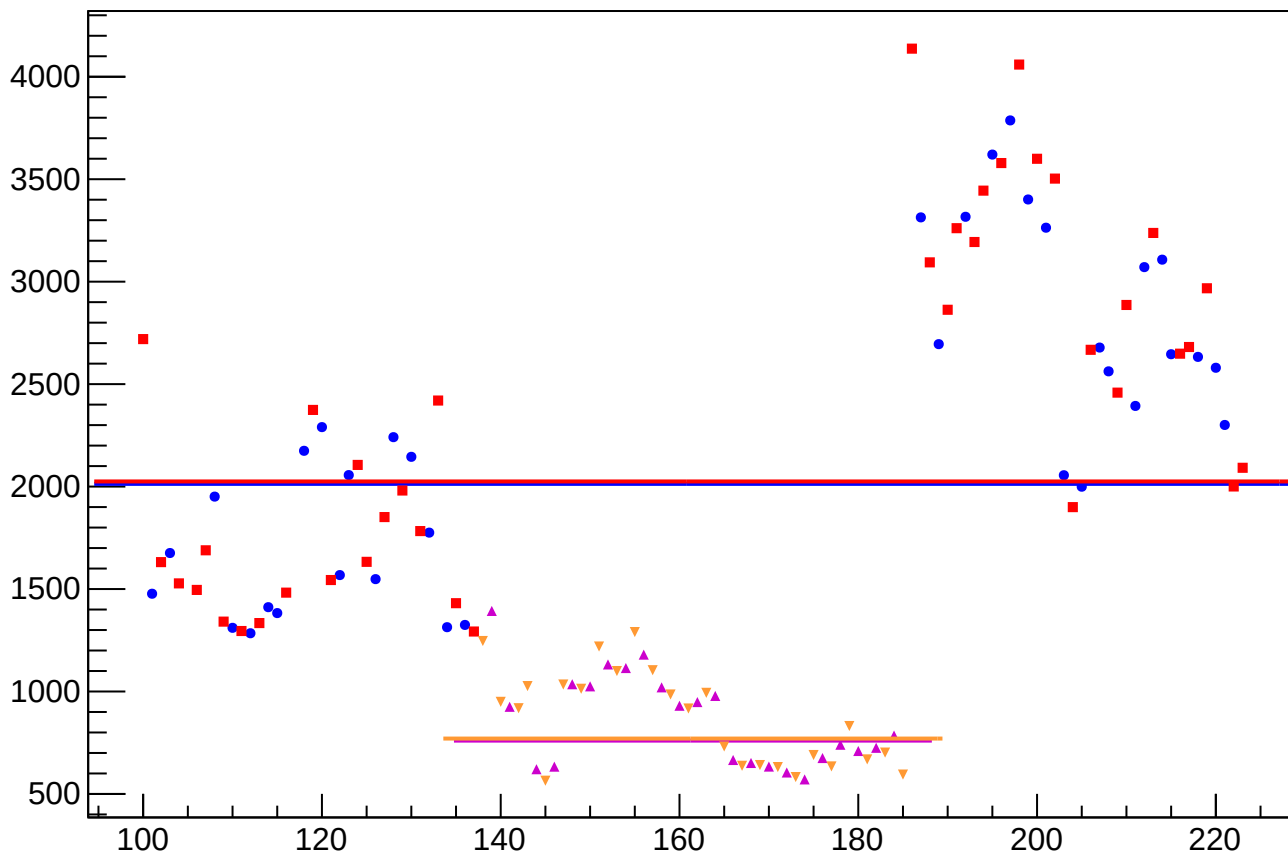
Right: -213.358 $\pm$ 336.435 χ^2/NDF : 147.7/73

In: 229.956 $\pm$ 175.045 χ^2/NDF : 101.7/57

Out: 480.876 $\pm$ 173.026 χ^2/NDF : 152.4/63

All: 356.871 $\pm$ 123.055 χ^2/NDF : 255.1/121

asym_sam3_rms vs Slug, Sign Corrected



Right In: 2013.240+/-0.338 χ^2/NDF : 3925650.9/34

Left Out: 770.320+/-0.131 χ^2/NDF : 2287655.1/24

Right Out: 2025.064+/-0.335 χ^2/NDF : 4614621.5/38

Left In: 760.352+/-0.133 χ^2/NDF : 1986749.8/22

Left: 765.397+/-0.093 χ^2/NDF : 4277246.5/47

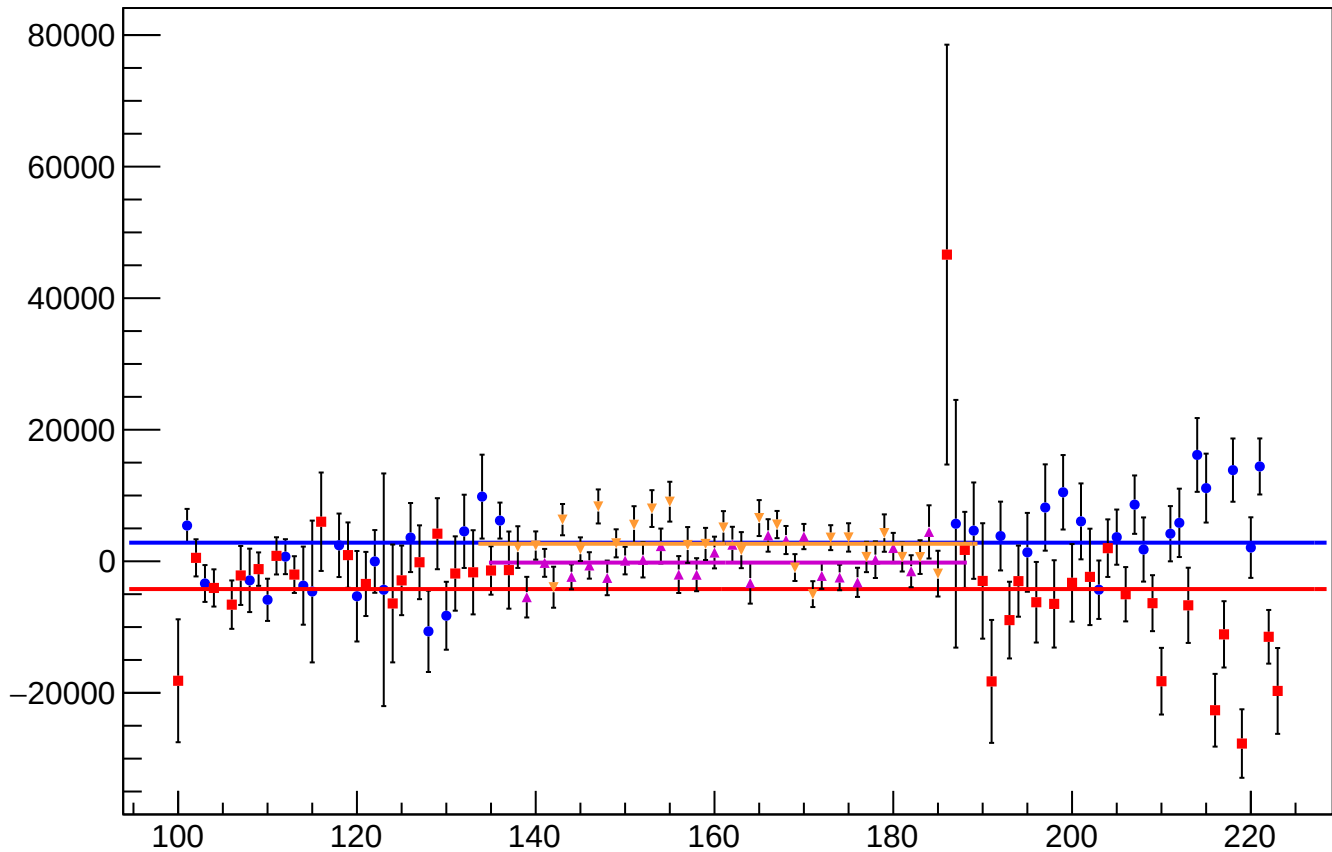
Right: 2019.197+/-0.238 χ^2/NDF : 8540890.0/73

In: 928.653+/-0.124 χ^2/NDF : 17827077.3/57

Out: 937.511+/-0.122 χ^2/NDF : 19049375.2/63

All: 933.133+/-0.087 χ^2/NDF : 36879043.0/12

asym_sam4_mean vs Slug, Sign Corrected



Right In: 2830.504 $\pm$ 771.079 χ^2 /NDF: 59.8/34

Left Out: 2665.587 $\pm$ 479.773 χ^2 /NDF: 49.2/24

Right Out: -4221.867 $\pm$ 743.170 χ^2 /NDF: 77.3/38

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

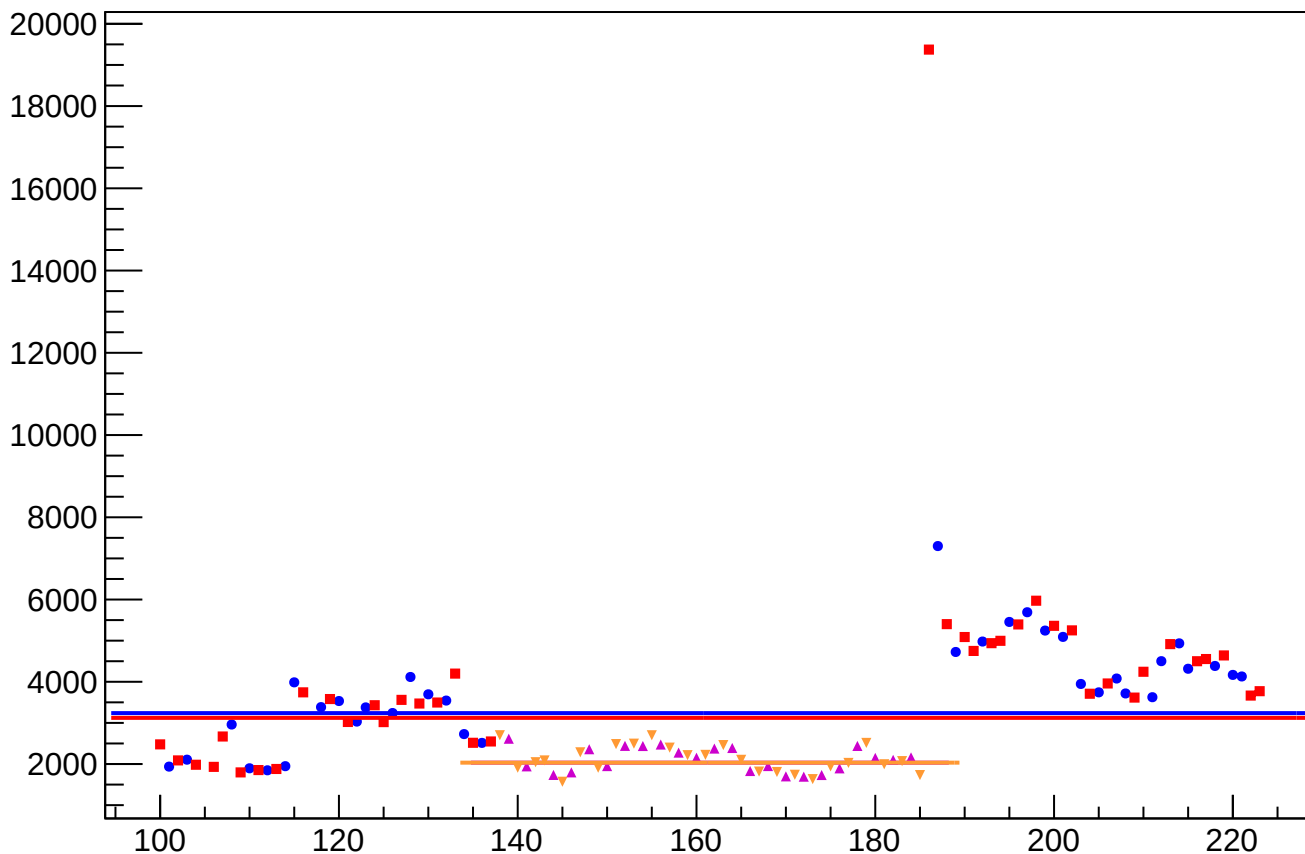
Right: -825.617 $\pm$ 535.095 χ^2 /NDF: 180.5/73

In: 677.481 $\pm$ 414.810 χ^2 /NDF: 96.6/57

Out: 639.515 $\pm$ 403.076 χ^2 /NDF: 187.1/63

All: 657.953 $\pm$ 289.077 χ^2 /NDF: 283.7/121

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3237.939+/-0.545 χ^2/NDF : 4351526.9/34

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 3122.785+/-0.526 χ^2/NDF : 5844474.9/38

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

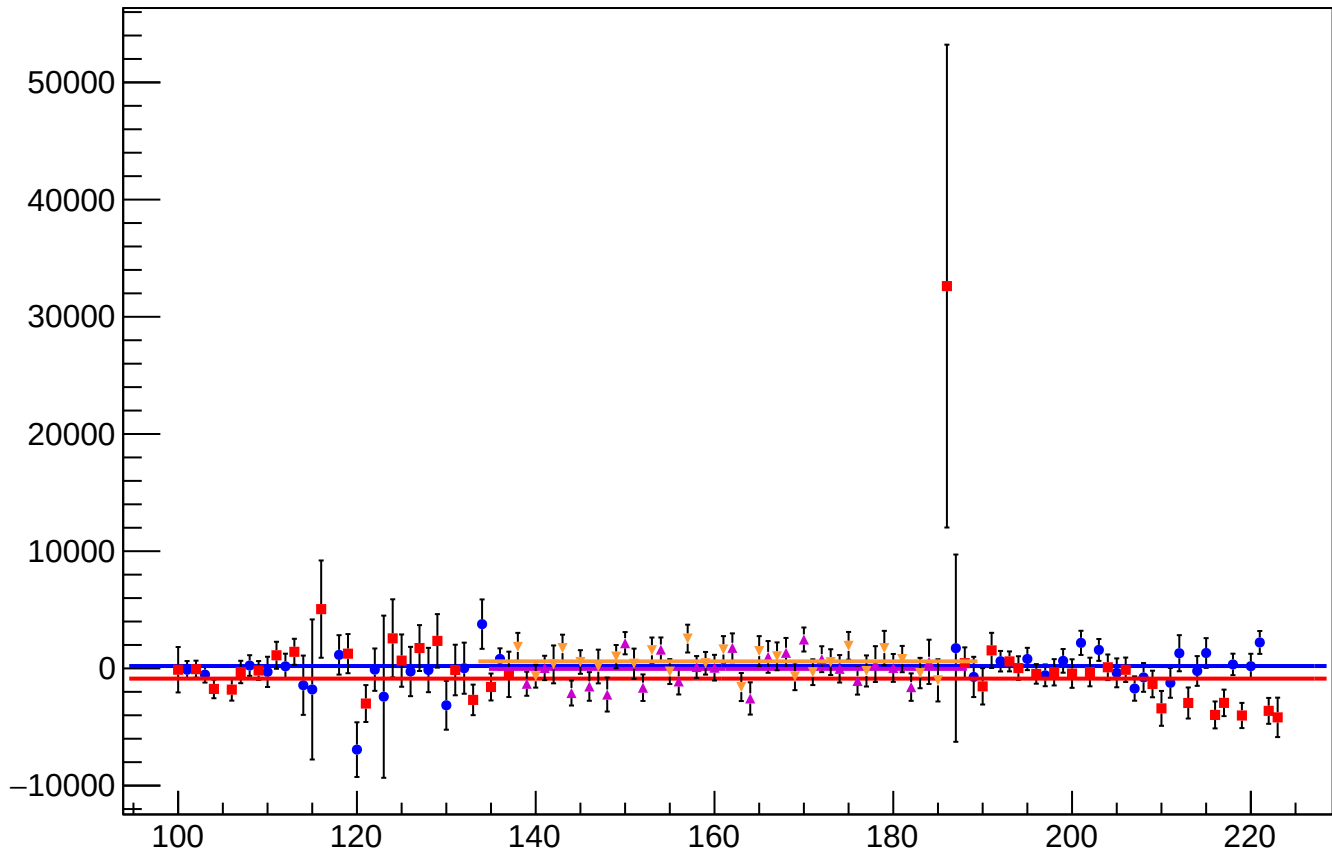
Right: 3178.241+/-0.378 χ^2/NDF : 10219126.4/73

In: 2381.466+/-0.293 χ^2/NDF : 8476736.9/57

Out: 2353.818+/-0.285 χ^2/NDF : 9702202.9/63

All: 2367.246+/-0.204 χ^2/NDF : 18183509.7/131

asym_sam5_mean vs Slug, Sign Corrected



Right In: 202.385 $\pm$ 200.797 χ^2 /NDF: 36.7/34

Left Out: 600.005 $\pm$ 234.968 χ^2 /NDF:18.5/24

Right Out: -871.055 $\pm$ 192.595 χ^2 /NDF: 72.2/38

Left In: -41.559 $\pm$ 240.807 χ^2 /NDF:36.4/22

Left: 287.096 $\pm$ 168.174 χ^2 /NDF: 58.5/47

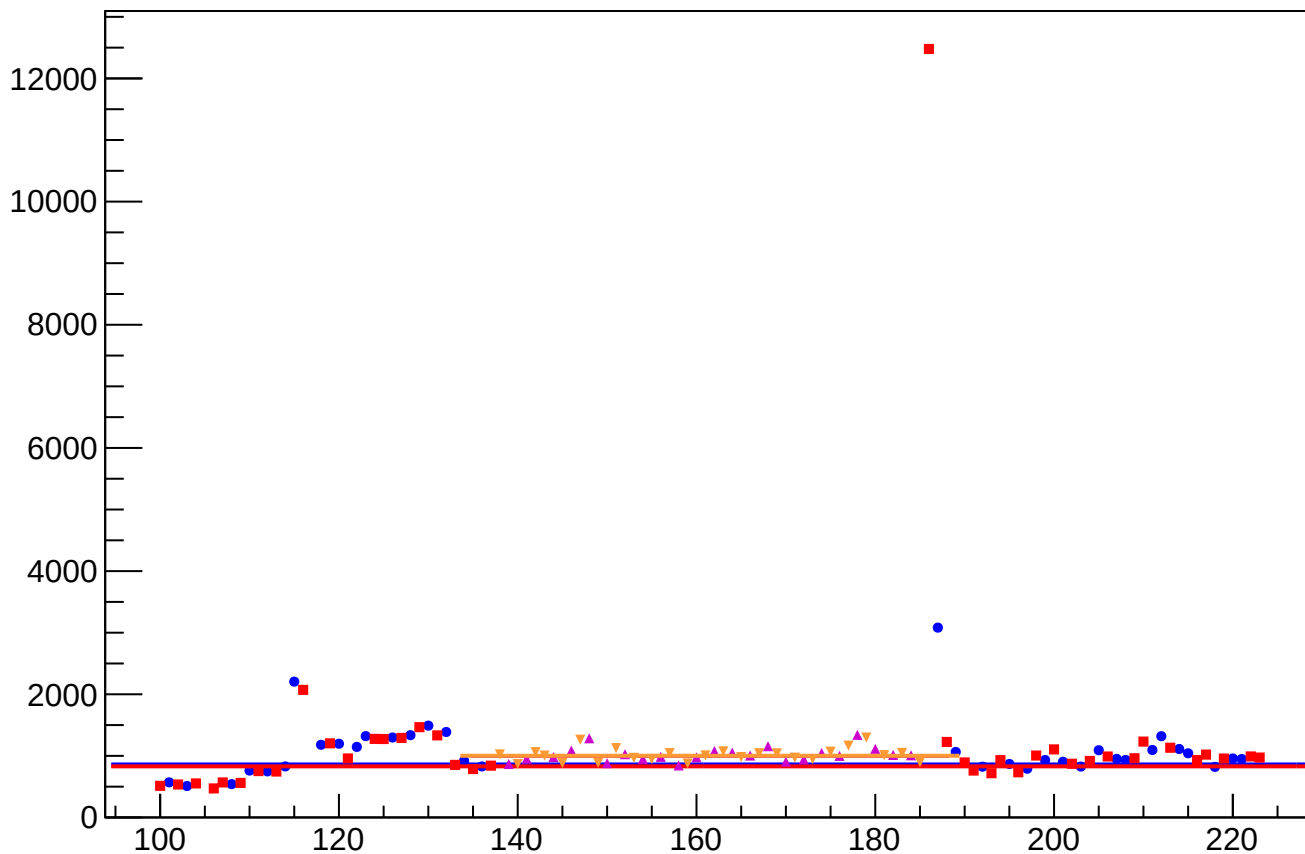
Right: -356.705 $\pm$ 138.994 χ^2 /NDF: 123.9/73

In: 102.335 $\pm$ 154.217 χ^2 /NDF:73.7/57

Out: -279.893 $\pm$ 148.952 χ^2 /NDF:114.2/63

All: -95.415 $\pm$ 107.138 χ^2 /NDF: 191.1/121

asym_sam5_rms vs Slug, Sign Corrected



Right In: 860.568 $\pm$ 0.142 χ^2 /NDF: 2626722.5/34

Left Out: 1001.472 $\pm$ 0.166 χ^2 /NDF: 370299.3/24

Right Out: 829.945 $\pm$ 0.136 χ^2 /NDF: 3644387.9/38

Left In: 998.050 $\pm$ 0.170 χ^2 /NDF: 404656.2/22

Left: 999.803 $\pm$ 0.119 χ^2 /NDF: 775162.3/47

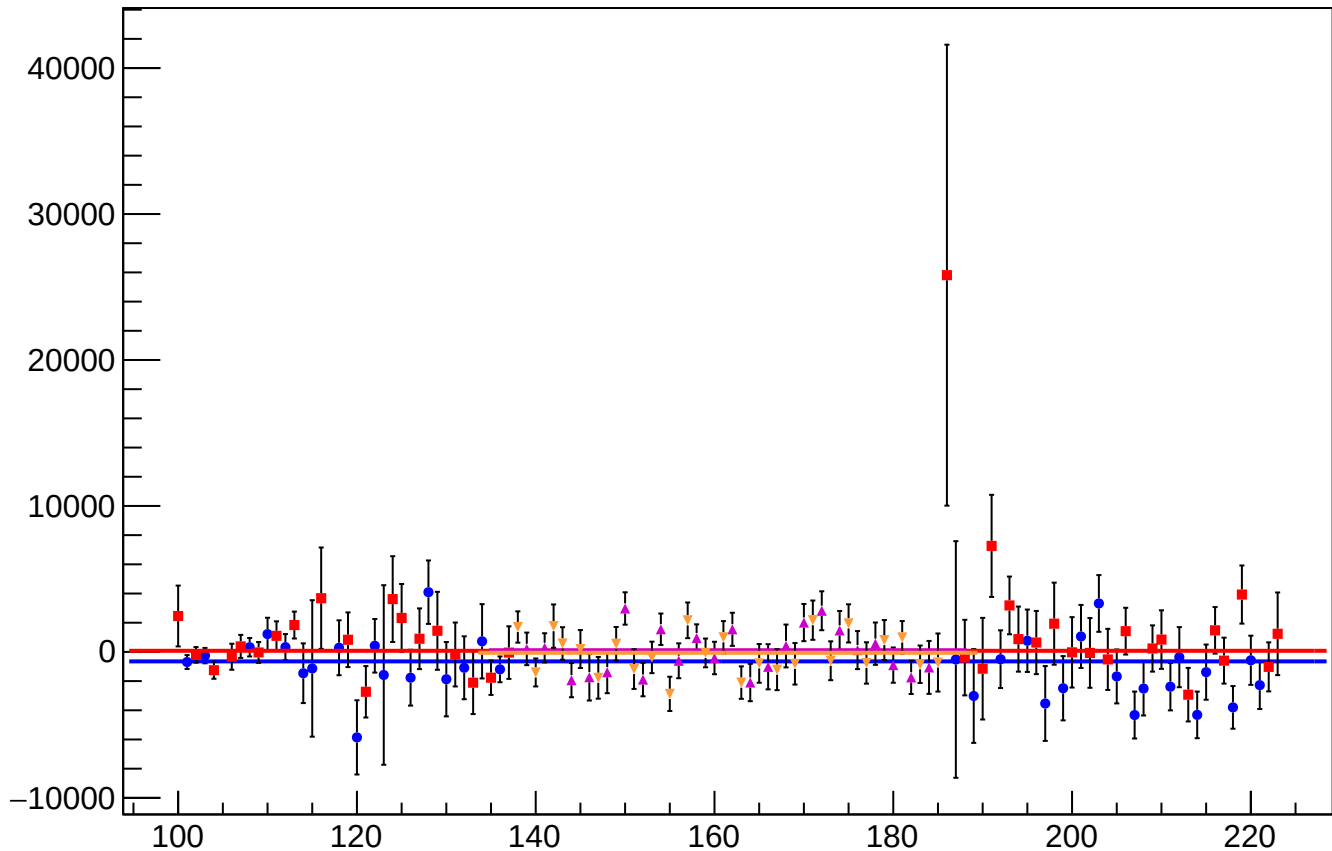
Right: 844.618 $\pm$ 0.098 χ^2 /NDF: 6295338.6/73

In: 916.954 $\pm$ 0.109 χ^2 /NDF: 3415912.8/57

Out: 898.875 $\pm$ 0.105 χ^2 /NDF: 4652184.2/63

All: 907.601 $\pm$ 0.076 χ^2 /NDF: 8082317.8/123

asym_sam6_mean vs Slug, Sign Corrected



Right In: -649.756+/-219.315 χ^2/NDF : 44.4/34

Left Out: -59.827+/-246.503 χ^2/NDF : 31.0/24

Right Out: 76.493+/-217.966 χ^2/NDF : 41.0/38

Left In: 112.398+/-255.409 χ^2/NDF : 34.9/22

Left: 23.230+/-177.369 χ^2/NDF : 66.1/47

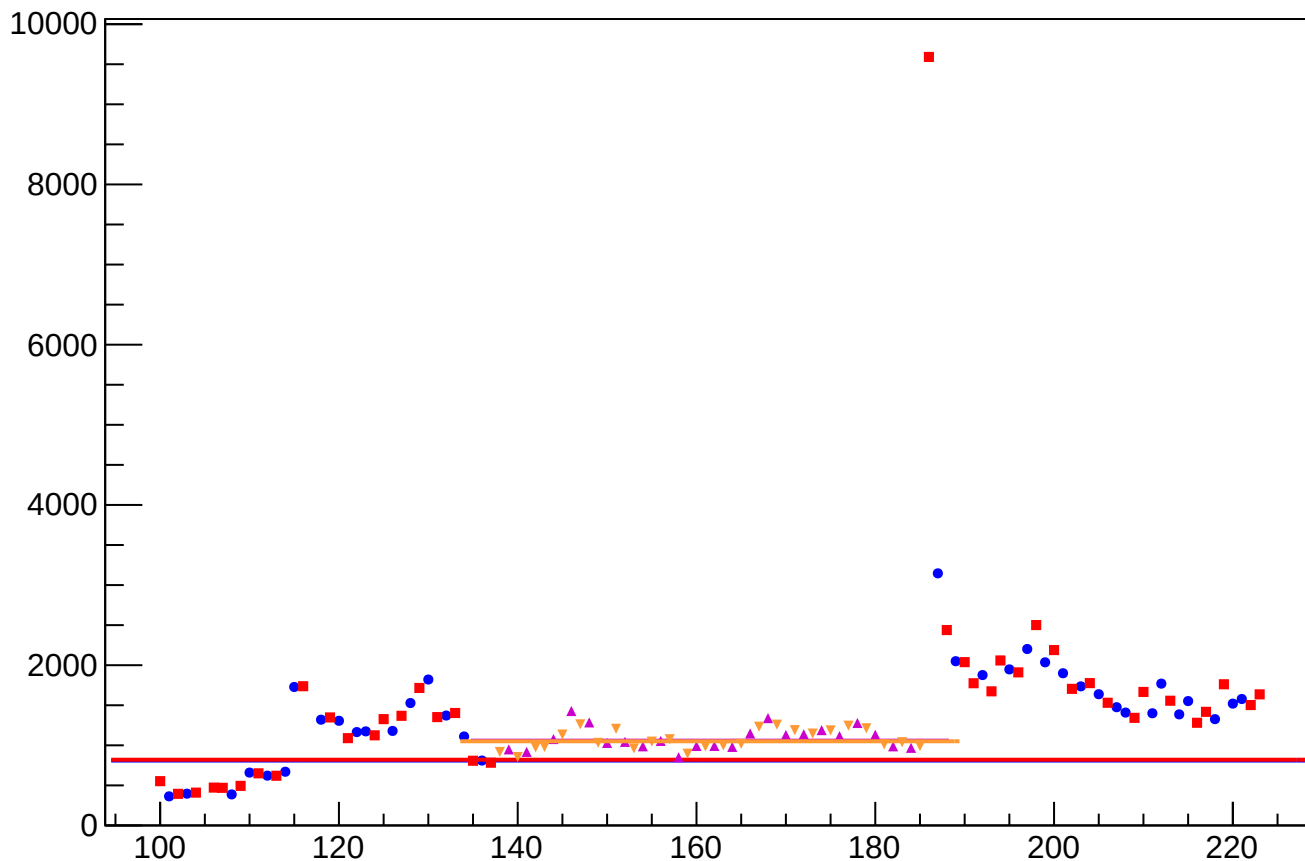
Right: -284.391+/-154.600 χ^2/NDF : 91.0/73

In: -326.295+/-166.390 χ^2/NDF : 84.4/57

Out: 16.677+/-163.287 χ^2/NDF : 72.2/63

All: -151.581+/-116.543 χ^2/NDF : 158.8/121

asym_sam6_rms vs Slug, Sign Corrected



Right In: 810.095+/-0.155 χ^2/NDF : 12233539.7/34

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 820.409+/-0.154 χ^2/NDF : 12678527.2/38

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

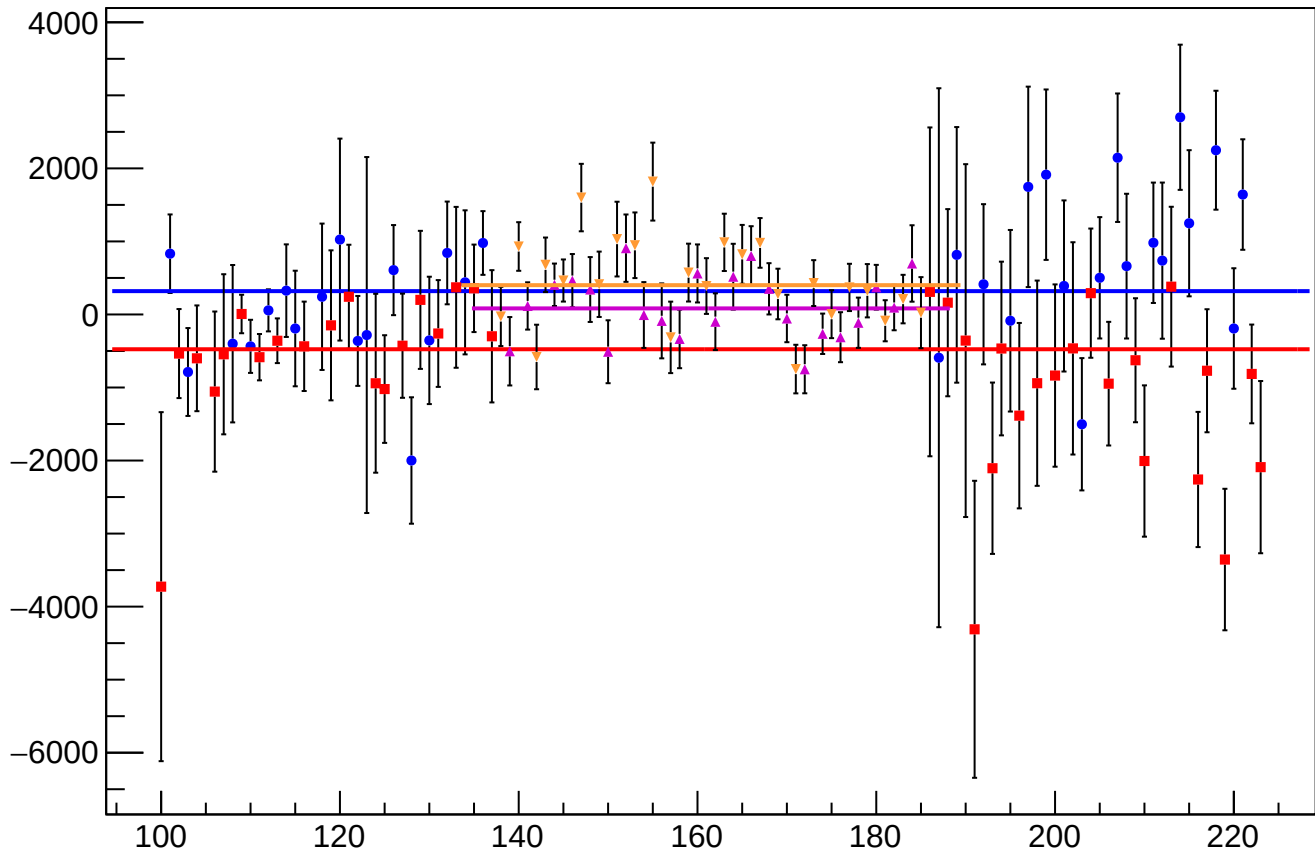
Right: 815.284+/-0.109 χ^2/NDF : 24914292.2/73

In: 915.348+/-0.118 χ^2/NDF : 13847499.2/57

Out: 921.436+/-0.115 χ^2/NDF : 14140873.3/63

All: 918.449+/-0.082 χ^2/NDF : 27989736.4/12

asym_sam7_mean vs Slug, Sign Corrected



Right In: 319.438 ± 122.484 $\chi^2/\text{NDF}: 50.9/34$

Left Out: 400.988 ± 74.546 $\chi^2/\text{NDF}: 52.1/24$

Right Out: -476.297 ± 114.244 $\chi^2/\text{NDF}: 36.0/38$

Left In: 82.890 ± 76.904 $\chi^2/\text{NDF}: 29.0/22$

Left: 246.889 ± 53.526 $\chi^2/\text{NDF}: 89.9/47$

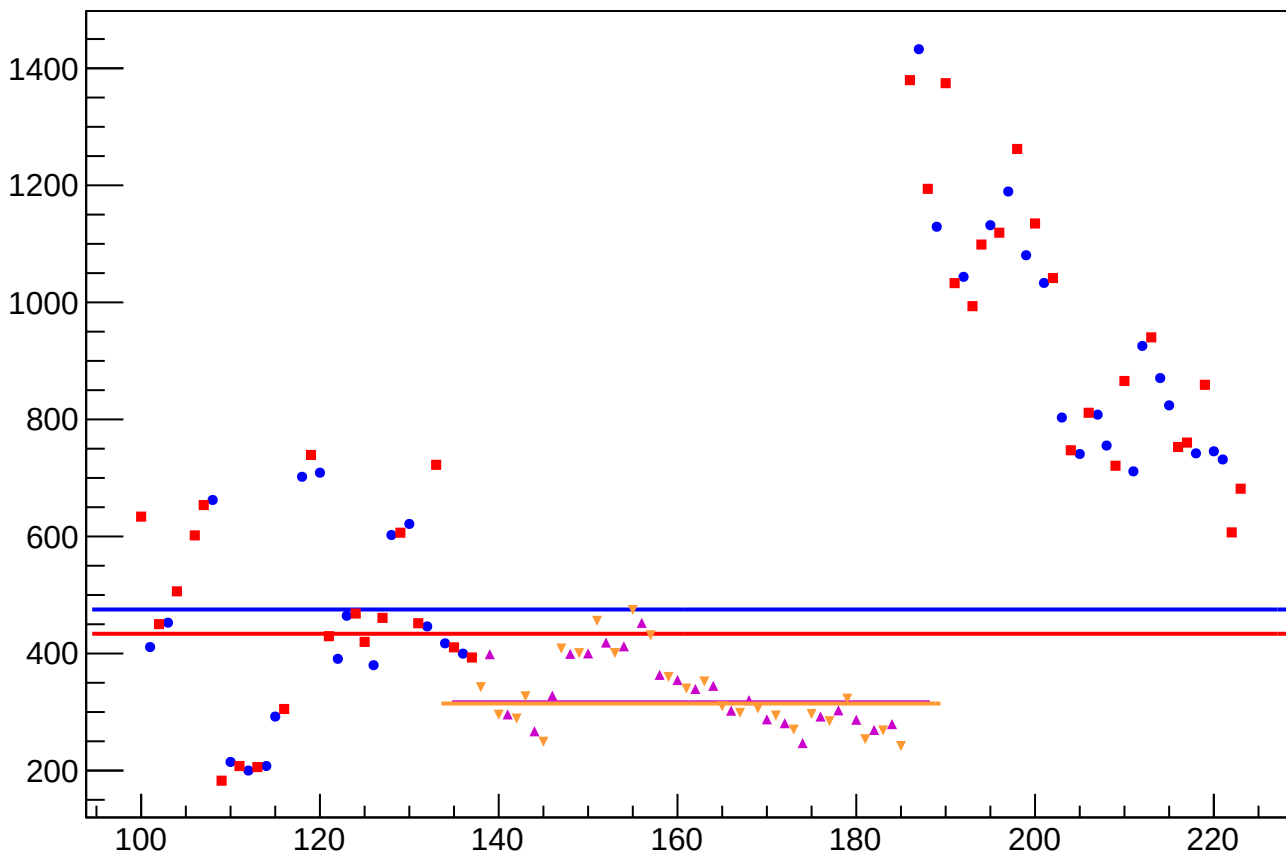
Right: -106.093 ± 83.544 $\chi^2/\text{NDF}: 109.5/73$

In: 149.774 ± 65.130 $\chi^2/\text{NDF}: 82.6/57$

Out: 139.005 ± 62.431 $\chi^2/\text{NDF}: 129.5/63$

All: 144.162 ± 45.069 $\chi^2/\text{NDF}: 212.0/121$

asym_sam7_rms vs Slug, Sign Corrected



Right In: 475.231+/-0.087 χ^2/NDF : 9518749.1/34

Left Out: 314.538+/-0.053 χ^2/NDF : 1112445.6/24

Right Out: 433.741+/-0.081 χ^2/NDF : 12258434.5/38

Left In: 316.647+/-0.054 χ^2/NDF : 920874.0/22

Left: 315.560+/-0.038 χ^2/NDF : 2034094.8/47

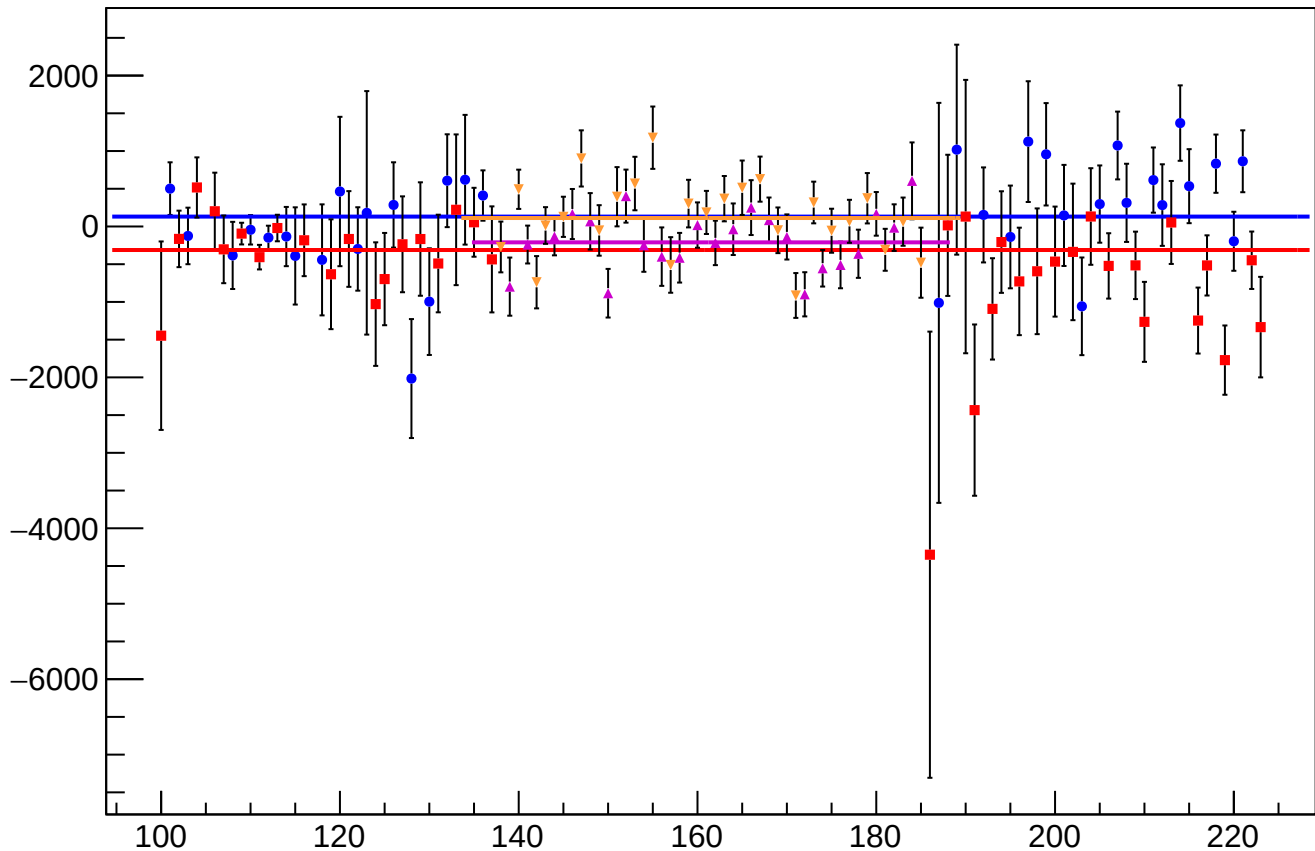
Right: 453.044+/-0.059 χ^2/NDF : 21899901.2/73

In: 361.487+/-0.046 χ^2/NDF : 12844302.9/57

Out: 350.136+/-0.044 χ^2/NDF : 14898036.6/63

All: 355.571+/-0.032 χ^2/NDF : 27773998.8/12

asym_sam8_mean vs Slug, Sign Corrected



Right In: 131.069 ± 73.744 $\chi^2/\text{NDF}: 48.1/34$

Left Out: 112.242 ± 62.643 $\chi^2/\text{NDF}: 49.1/24$

Right Out: -311.840 ± 66.351 $\chi^2/\text{NDF}: 43.7/38$

Left In: -210.453 ± 65.510 $\chi^2/\text{NDF}: 29.2/22$

Left: -41.890 ± 45.275 $\chi^2/\text{NDF}: 91.0/47$

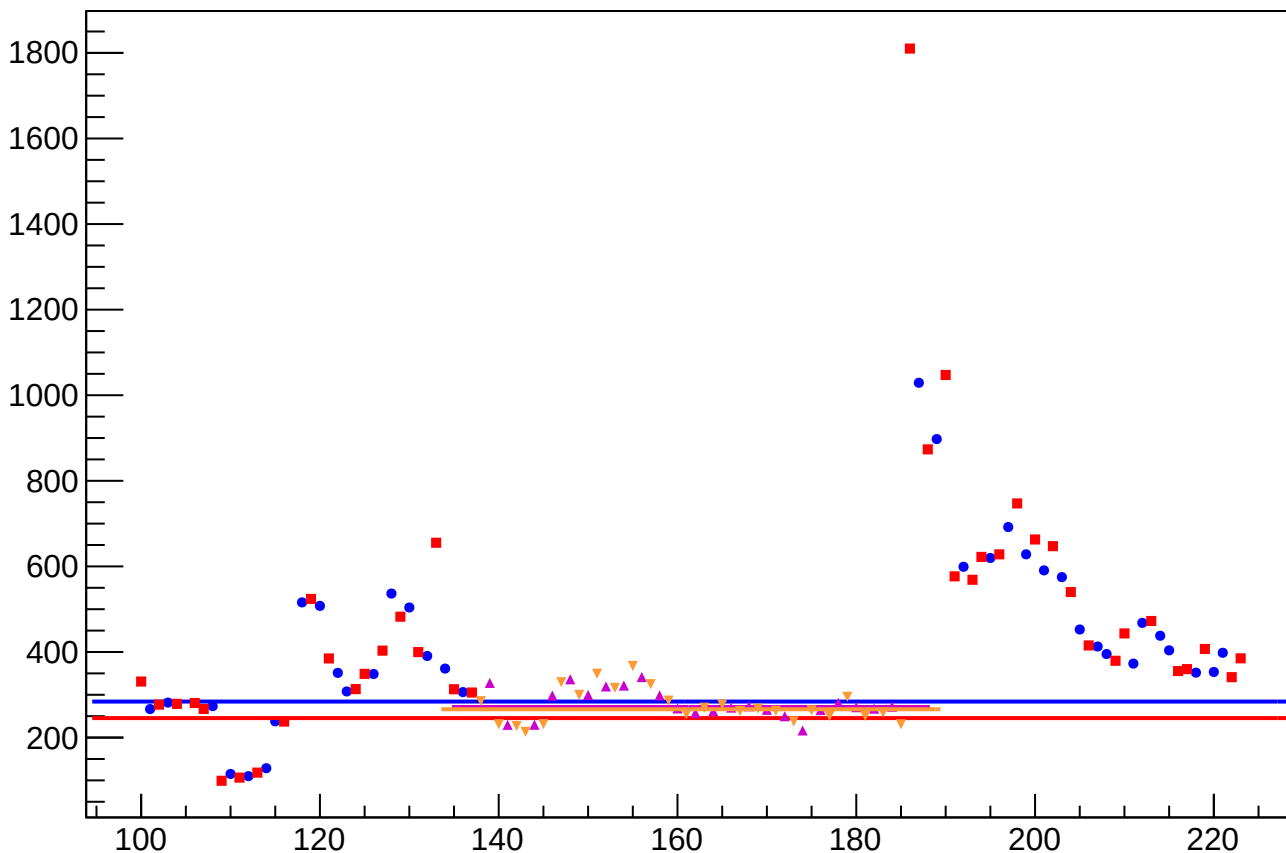
Right: -113.693 ± 49.325 $\chi^2/\text{NDF}: 111.7/73$

In: -59.815 ± 48.976 $\chi^2/\text{NDF}: 89.2/57$

Out: -87.619 ± 45.550 $\chi^2/\text{NDF}: 114.4/63$

All: -74.723 ± 33.354 $\chi^2/\text{NDF}: 203.8/121$

asym_sam8_rms vs Slug, Sign Corrected



Right In: 284.166+/-0.052 χ^2/NDF : 9857182.0/34

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 245.508+/-0.047 χ^2/NDF : 13678354.7/38

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

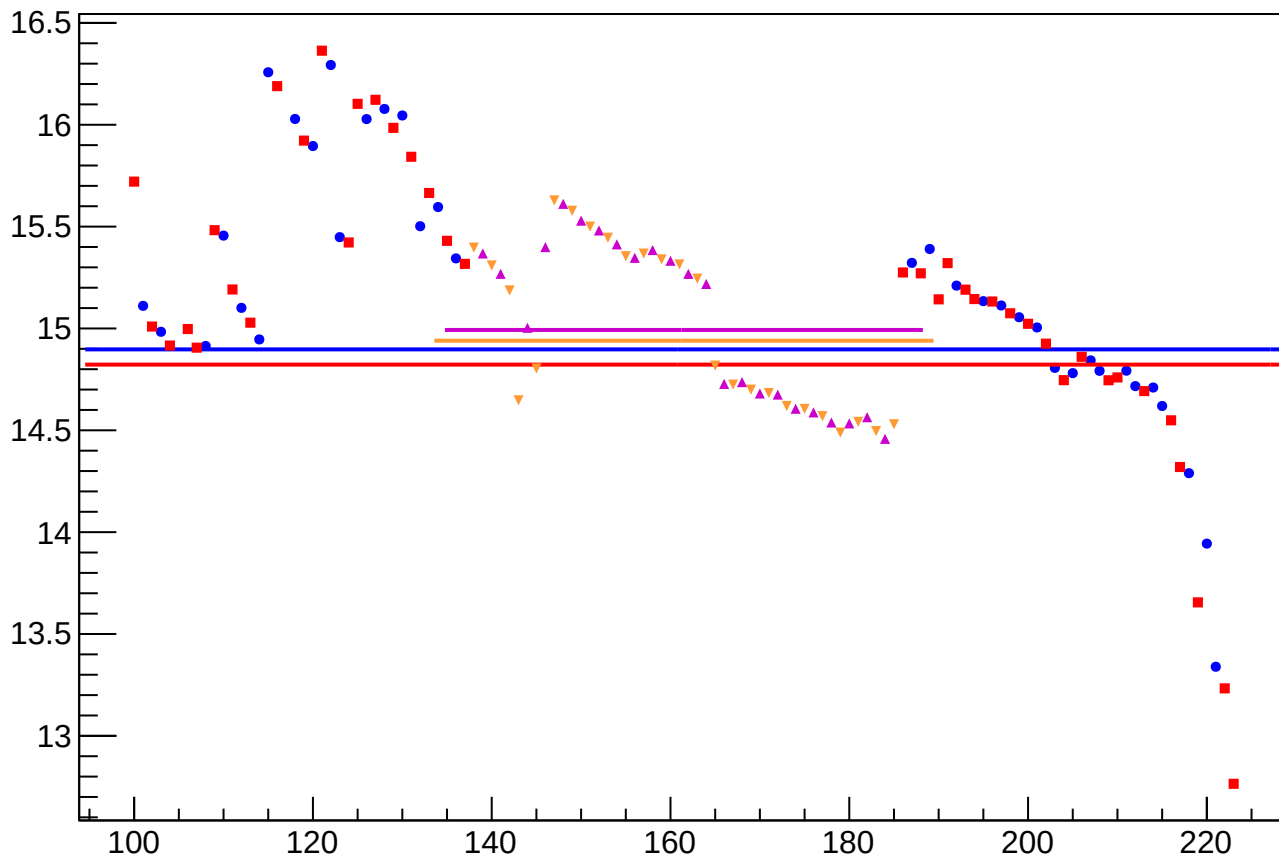
Right: 262.802+/-0.035 χ^2/NDF : 23839262.3/73

In: 277.039+/-0.035 χ^2/NDF : 10412478.6/57

Out: 256.452+/-0.032 χ^2/NDF : 14430898.5/63

All: 266.000+/-0.024 χ^2/NDF : 25032861.7/12

yield_sam1_mean vs Slug, Sign Corrected



Right In: 14.897+/-0.000 χ^2/NDF : 55799989038.6/34

Left Out: 14.940+/-0.000 χ^2/NDF : 24199653913.9/24

Right Out: 14.822+/-0.000 χ^2/NDF : 74843310805.3/38

Left In: 14.993+/-0.000 χ^2/NDF : 22023159634.7/22

Left: 14.965+/-0.000 χ^2/NDF : 46444749587.5/47

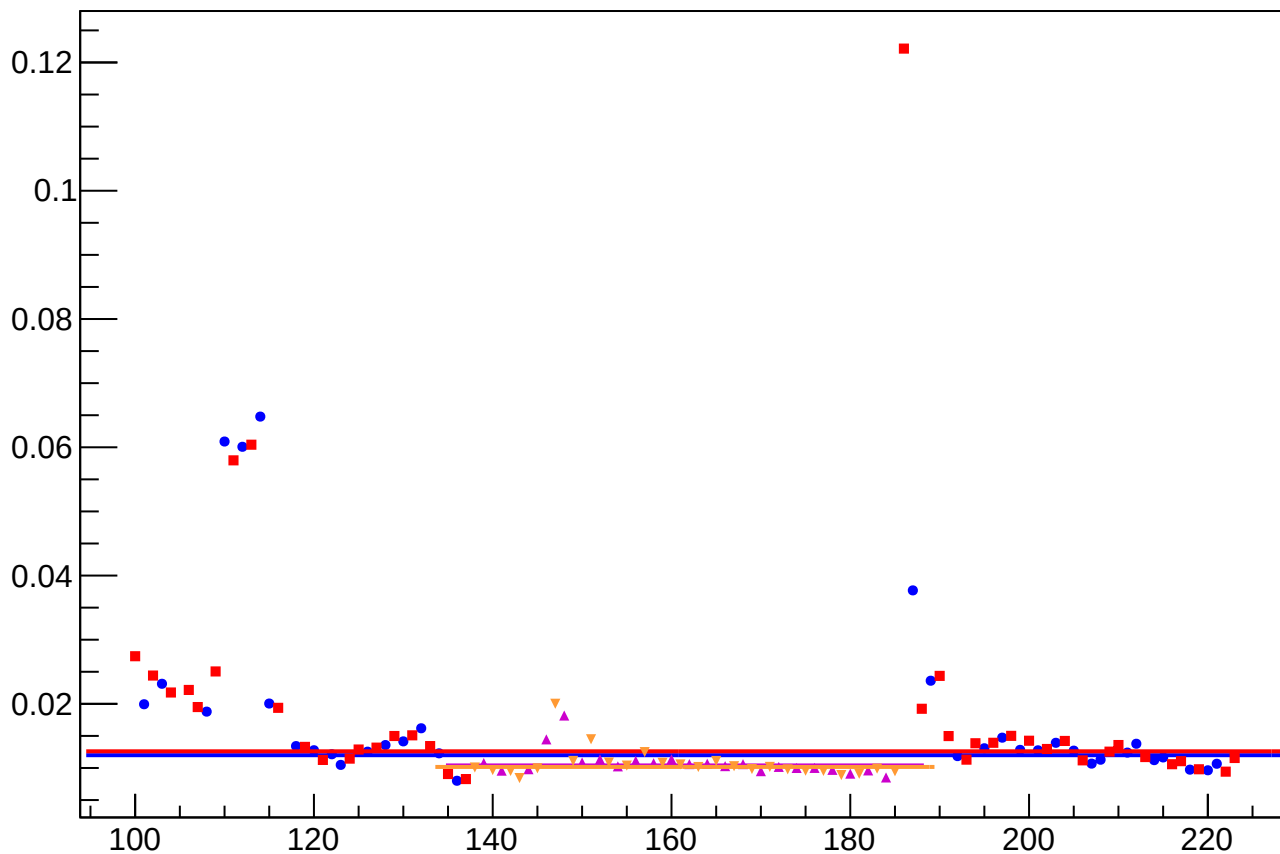
Right: 14.861+/-0.000 χ^2/NDF : 130969298383.8/73

In: 14.950+/-0.000 χ^2/NDF : 78439158920.9/57

Out: 14.893+/-0.000 χ^2/NDF : 99967281612.3/63

All: 14.921+/-0.000 χ^2/NDF : 178861893542.0

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 2865237.6/34

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 717351.4/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3650239.4/38

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF: 544268.8/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1270343.0/47

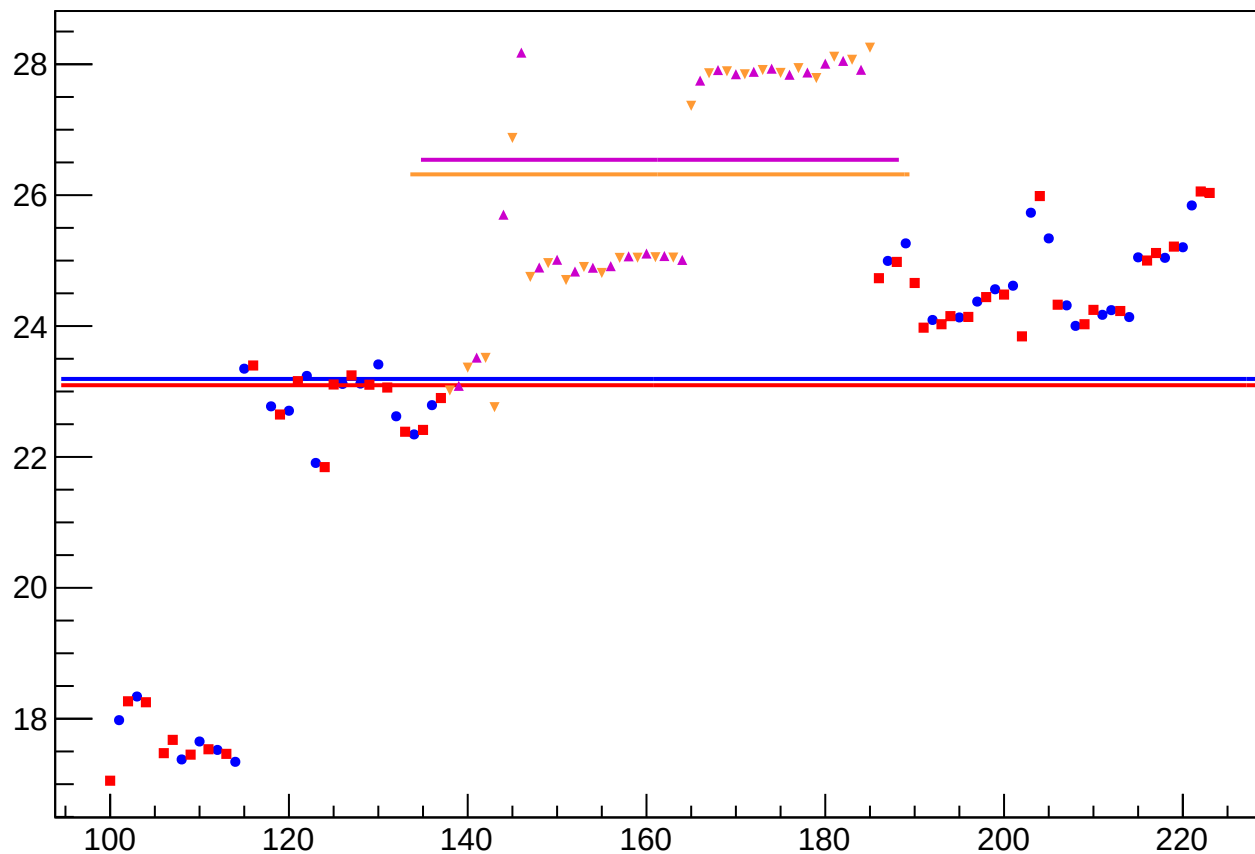
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 6558439.8/73

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 3754042.7/57

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 5163488.2/63

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 8917828.5/121

yield_sam2_mean vs Slug, Sign Corrected



Right In: 23.192+/-0.000 χ^2/NDF : 1706810818.8/34

Left Out: 26.318+/-0.000 χ^2/NDF : 4715403741.0/24

Right Out: 23.096+/-0.000 χ^2/NDF : 2034240567.8/38

Left In: 26.540+/-0.000 χ^2/NDF : 3309392772.6/22

Left: 26.424+/-0.000 χ^2/NDF : 8058273722.3/47

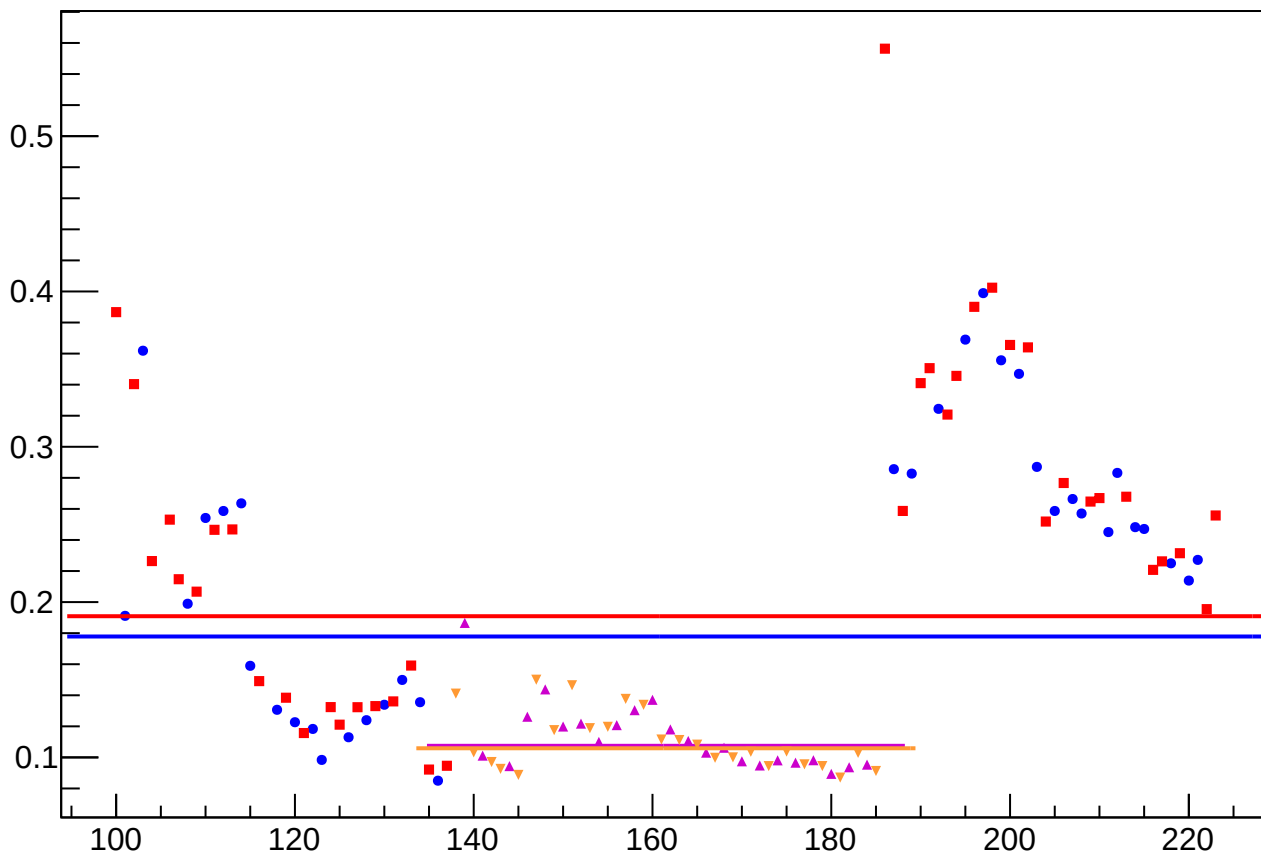
Right: 23.146+/-0.000 χ^2/NDF : 3743199419.3/73

In: 25.629+/-0.000 χ^2/NDF : 8970736272.9/57

Out: 25.542+/-0.000 χ^2/NDF : 10273306760.1/63

All: 25.585+/-0.000 χ^2/NDF : 19250839210.2

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.178 $\pm$ 0.000 χ^2 /NDF: 6646713.0/34

Left Out: 0.106 $\pm$ 0.000 χ^2 /NDF: 732883.8/24

Right Out: 0.191 $\pm$ 0.000 χ^2 /NDF: 6208085.0/38

Left In: 0.107 $\pm$ 0.000 χ^2 /NDF: 771132.0/22

Left: 0.107 $\pm$ 0.000 χ^2 /NDF: 1507414.2/47

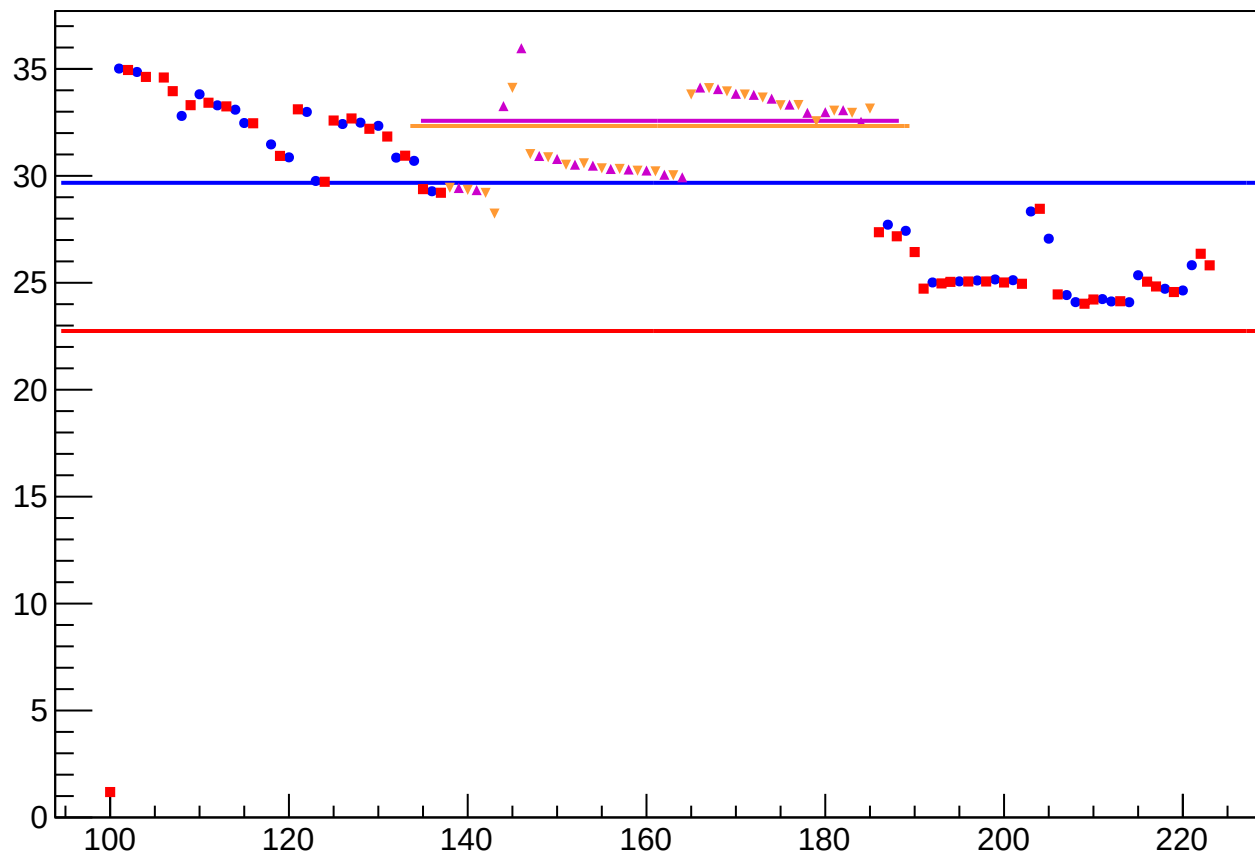
Right: 0.184 $\pm$ 0.000 χ^2 /NDF: 12934110.2/73

In: 0.127 $\pm$ 0.000 χ^2 /NDF: 10912238.9/57

Out: 0.126 $\pm$ 0.000 χ^2 /NDF: 11849214.2/63

All: 0.126 $\pm$ 0.000 χ^2 /NDF: 22761599.6/121

yield_sam3_mean vs Slug, Sign Corrected



Right In: 29.675 $\pm$ 0.000 χ^2 /NDF: 12752217110.6/34

Left Out: 32.331 $\pm$ 0.000 χ^2 /NDF: 12850475096.2/24

Right Out: 22.746 $\pm$ 0.000 χ^2 /NDF: 233302430516.1/38

Left In: 32.574 $\pm$ 0.000 χ^2 /NDF: 11797772603.7/22

Left: 32.450 $\pm$ 0.000 χ^2 /NDF: 24766521375.8/47

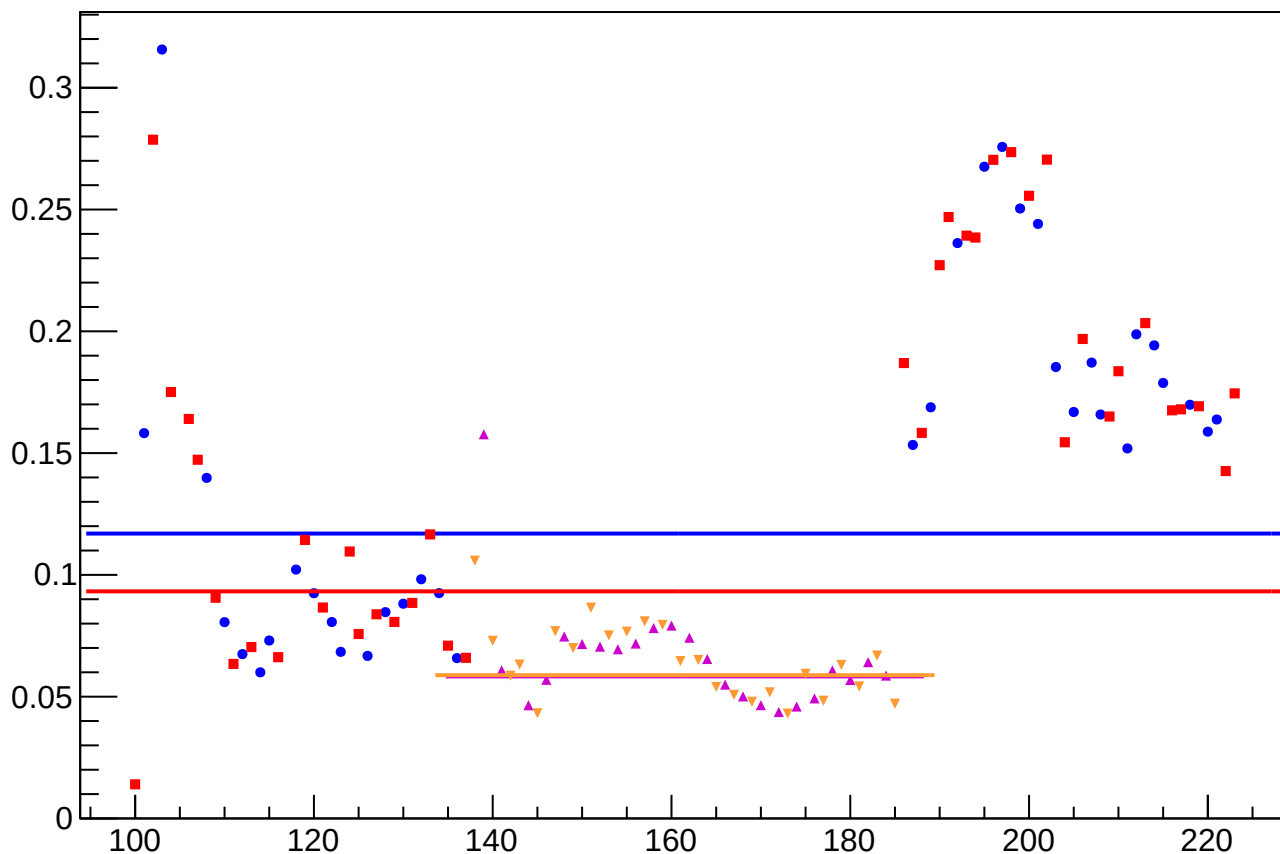
Right: 25.731 $\pm$ 0.000 χ^2 /NDF: 275505125114.6/73

In: 31.949 $\pm$ 0.000 χ^2 /NDF: 31657445571.1/57

Out: 29.858 $\pm$ 0.000 χ^2 /NDF: 343241013826.6/63

All: 30.852 $\pm$ 0.000 χ^2 /NDF: 386361081350.

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.117 $\pm$ 0.000 χ^2 /NDF: 7123261.5/34

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.093 $\pm$ 0.000 χ^2 /NDF: 13165463.1/38

Left In: 0.058 $\pm$ 0.000 χ^2 /NDF:1525476.4/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 2929140.7/47

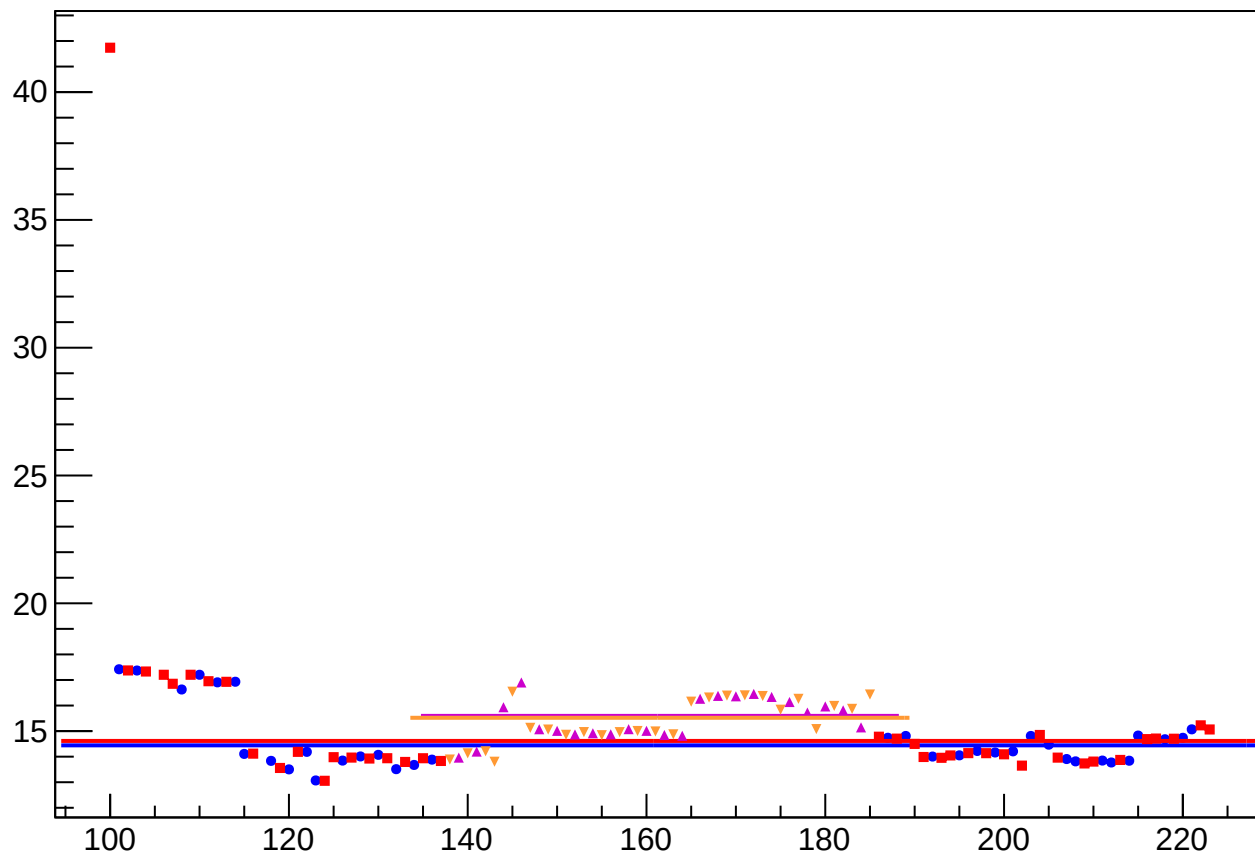
Right: 0.103 $\pm$ 0.000 χ^2 /NDF: 20979632.4/73

In: 0.071 $\pm$ 0.000 χ^2 /NDF:14465808.0/57

Out: 0.068 $\pm$ 0.000 χ^2 /NDF:17071118.9/63

All: 0.069 $\pm$ 0.000 χ^2 /NDF: 31592619.7/121

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.443+/-0.000

χ^2/NDF : 1588670234.7/34

Left: 15.557+/-0.000

χ^2/NDF : 4510008259.4/47

Left Out: 15.521+/-0.000

χ^2/NDF : 2591377740.5/24

Right: 14.527+/-0.000

χ^2/NDF : 3663013881.2/73

Right Out: 14.615+/-0.000

χ^2/NDF : 2055410283.3/38

In: 15.278+/-0.000

χ^2/NDF : 4753214655.7/57

Out: 15.297+/-0.000

χ^2/NDF : 5407063400.4/63

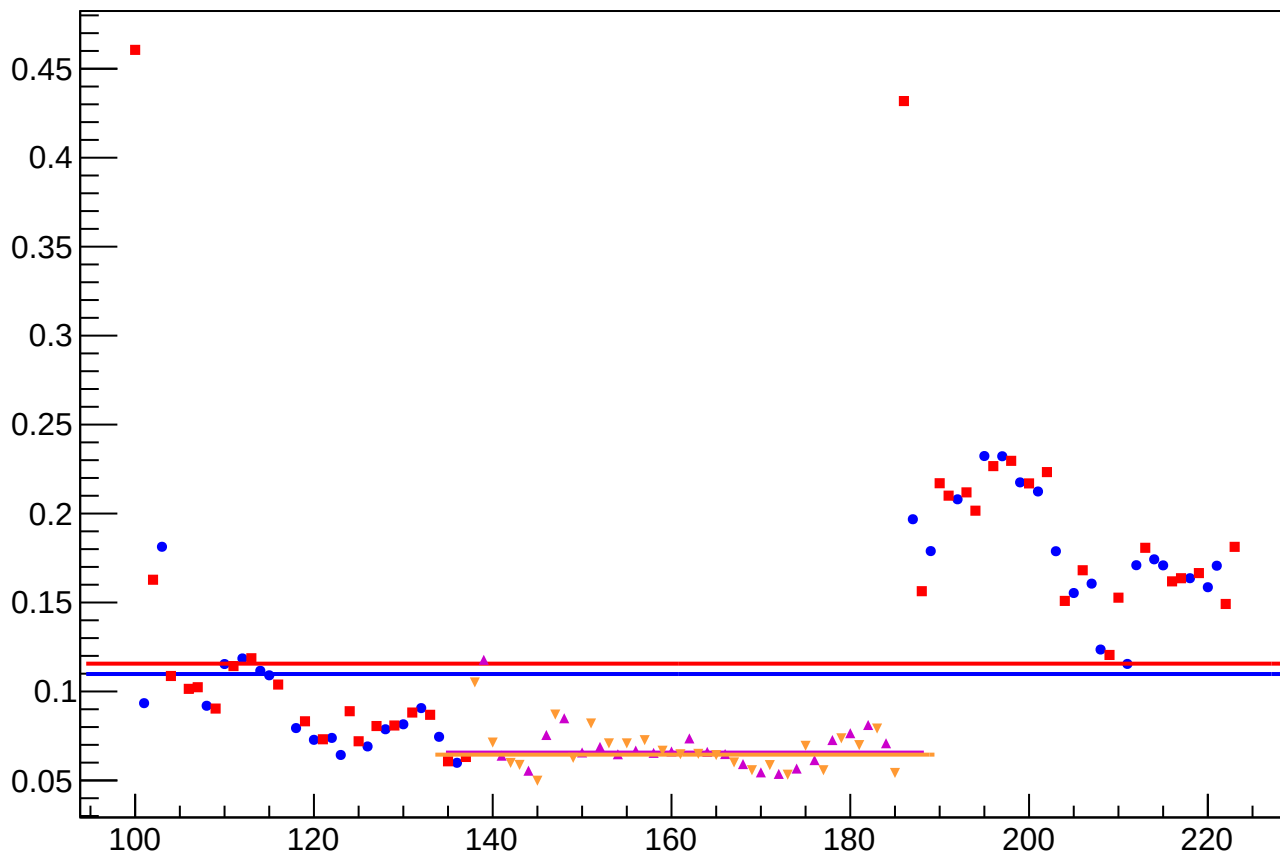
Left In: 15.595+/-0.000

χ^2/NDF : 1908733580.5/22

All: 15.288+/-0.000

χ^2/NDF : 10161127154.1

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.110+/-0.000 χ^2/NDF : 6147364.4/34

Left Out: 0.064+/-0.000 χ^2/NDF : 761552.3/24

Right Out: 0.116+/-0.000 χ^2/NDF : 5949131.1/38

Left In: 0.066+/-0.000 χ^2/NDF : 714703.1/22

Left: 0.065+/-0.000 χ^2/NDF : 1481007.6/47

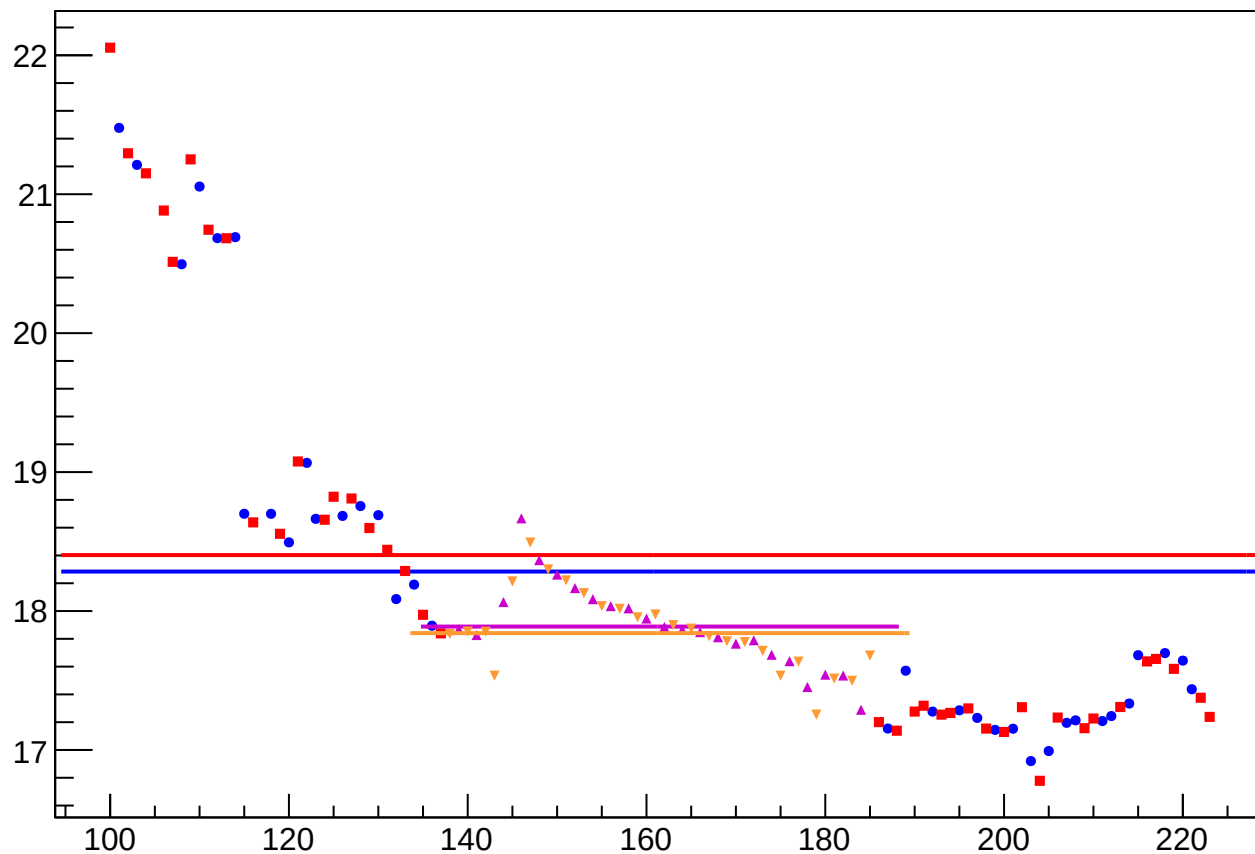
Right: 0.113+/-0.000 χ^2/NDF : 12139454.8/73

In: 0.078+/-0.000 χ^2/NDF : 10548279.9/57

Out: 0.077+/-0.000 χ^2/NDF : 11559618.7/63

All: 0.077+/-0.000 χ^2/NDF : 22109938.7/121

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.284 $\pm$ 0.000 χ^2 /NDF: 33177368717.1/34

Left Out: 17.841 $\pm$ 0.000 χ^2 /NDF: 1283287989.7/24

Right Out: 18.403 $\pm$ 0.000 χ^2 /NDF: 35808235143.8/38

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

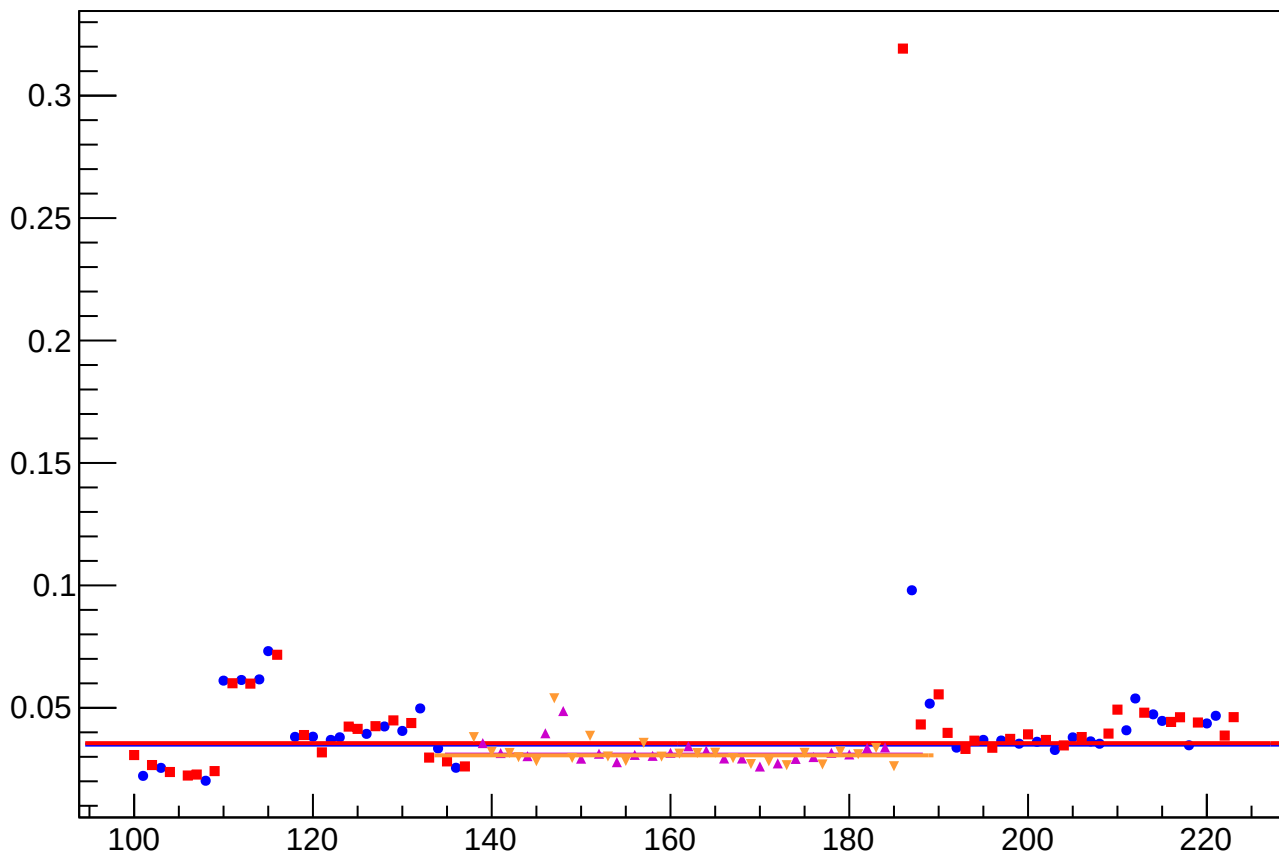
Right: 18.343 $\pm$ 0.000 χ^2 /NDF: 69087315284.8/73

In: 18.068 $\pm$ 0.000 χ^2 /NDF: 35619284965.5/57

Out: 18.086 $\pm$ 0.000 χ^2 /NDF: 39655110525.4/63

All: 18.077 $\pm$ 0.000 χ^2 /NDF: 75279265627.4

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.035 $\pm$ 0.000 χ^2 /NDF: 2372279.8/34

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.036 $\pm$ 0.000 χ^2 /NDF: 2691336.7/38

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

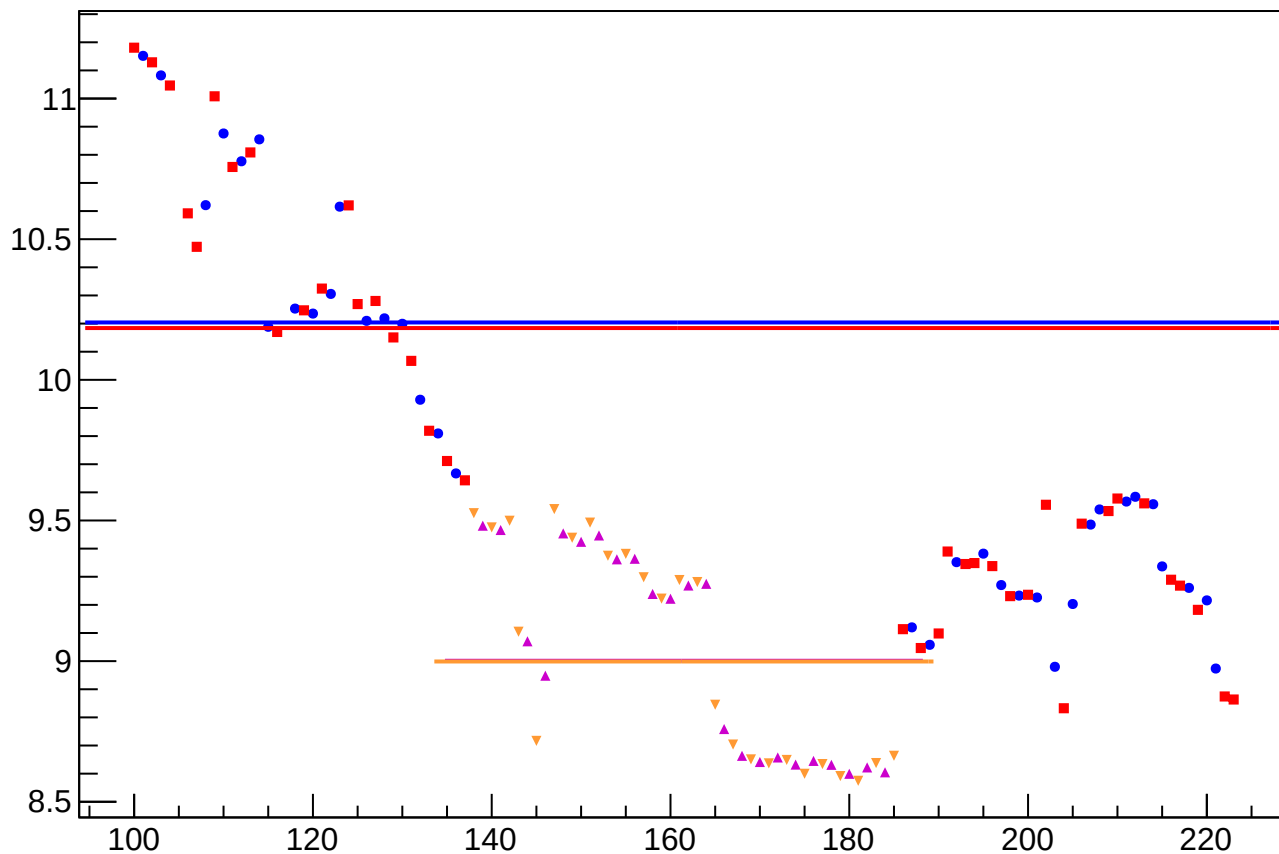
Right: 0.035 $\pm$ 0.000 χ^2 /NDF: 5068845.1/73

In: 0.033 $\pm$ 0.000 χ^2 /NDF:3088901.6/57

Out: 0.033 $\pm$ 0.000 χ^2 /NDF:3683861.0/63

All: 0.033 $\pm$ 0.000 χ^2 /NDF: 6772771.8/121

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.204+/-0.000 χ^2/NDF : 20403549793.1/34

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.184+/-0.000 χ^2/NDF : 19492030995.4/38

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

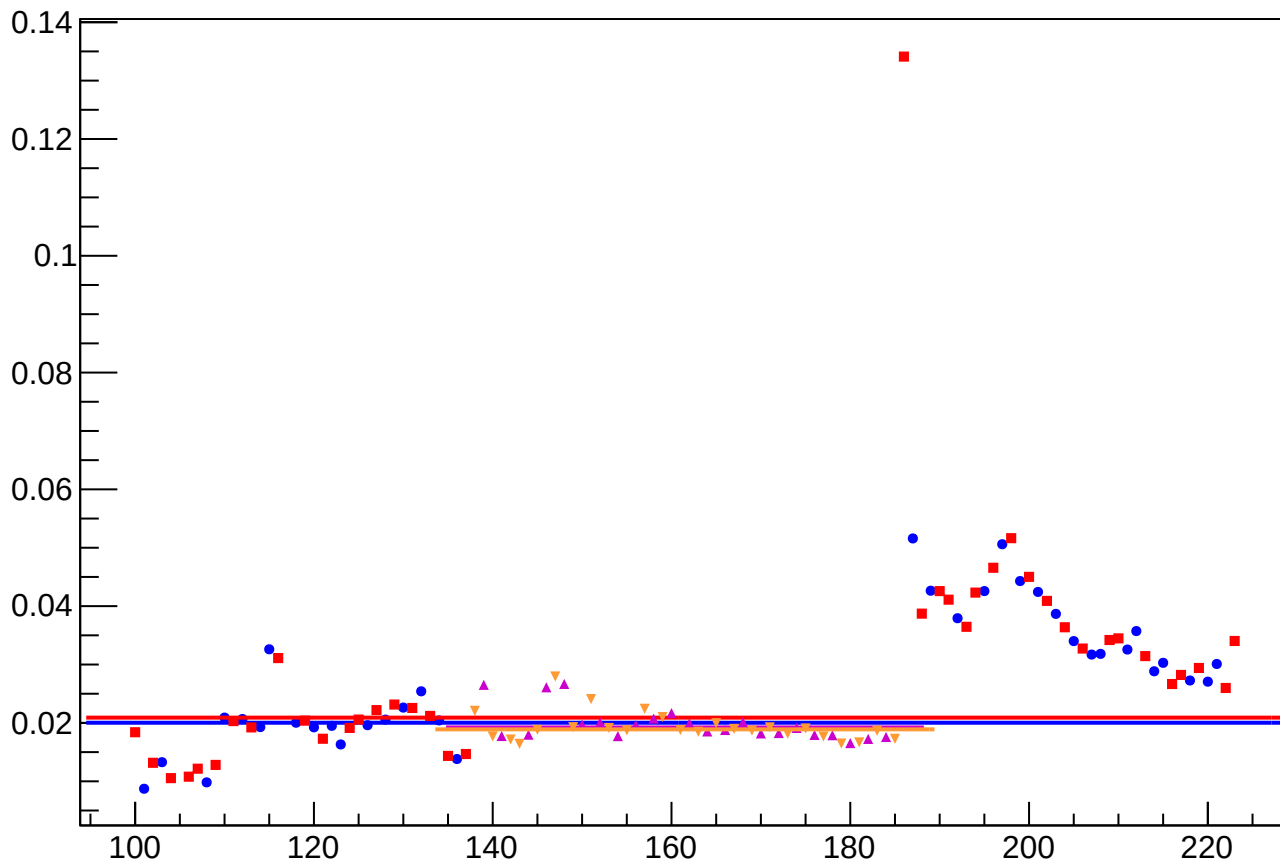
Right: 10.194+/-0.000 χ^2/NDF : 39902818977.3/73

In: 9.559+/-0.000 χ^2/NDF : 54448550890.4/57

Out: 9.512+/-0.000 χ^2/NDF : 54488042437.6/63

All: 9.535+/-0.000 χ^2/NDF : 109025999787.8

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 7975854.9/34

Left Out: 0.019+/-0.000 χ^2/NDF :428169.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 7698106.9/38

Left In: 0.019+/-0.000 χ^2/NDF :481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

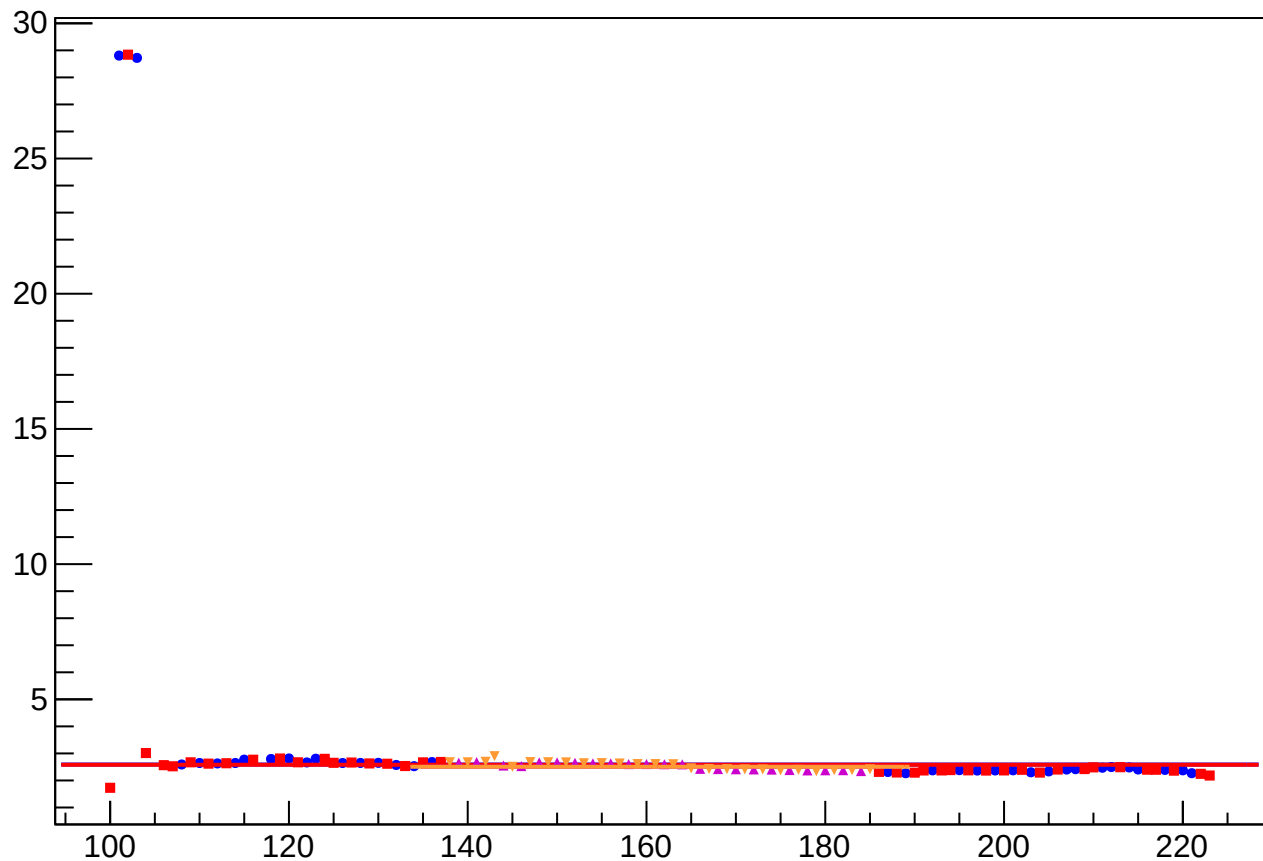
Right: 0.020+/-0.000 χ^2/NDF : 15701727.2/73

In: 0.020+/-0.000 χ^2/NDF :8483577.4/57

Out: 0.020+/-0.000 χ^2/NDF :8290357.2/63

All: 0.020+/-0.000 χ^2/NDF : 16776222.5/121

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.589+/-0.000 χ^2/NDF : 193865197262.2/34

Left Out: 2.507+/-0.000 χ^2/NDF : 64277969186.7/24

Right Out: 2.581+/-0.000 χ^2/NDF : 107748970050.0/38

Left In: 2.505+/-0.000 χ^2/NDF : 42893630742.5/22

Left: 2.506+/-0.000 χ^2/NDF : 107174595641.7/47

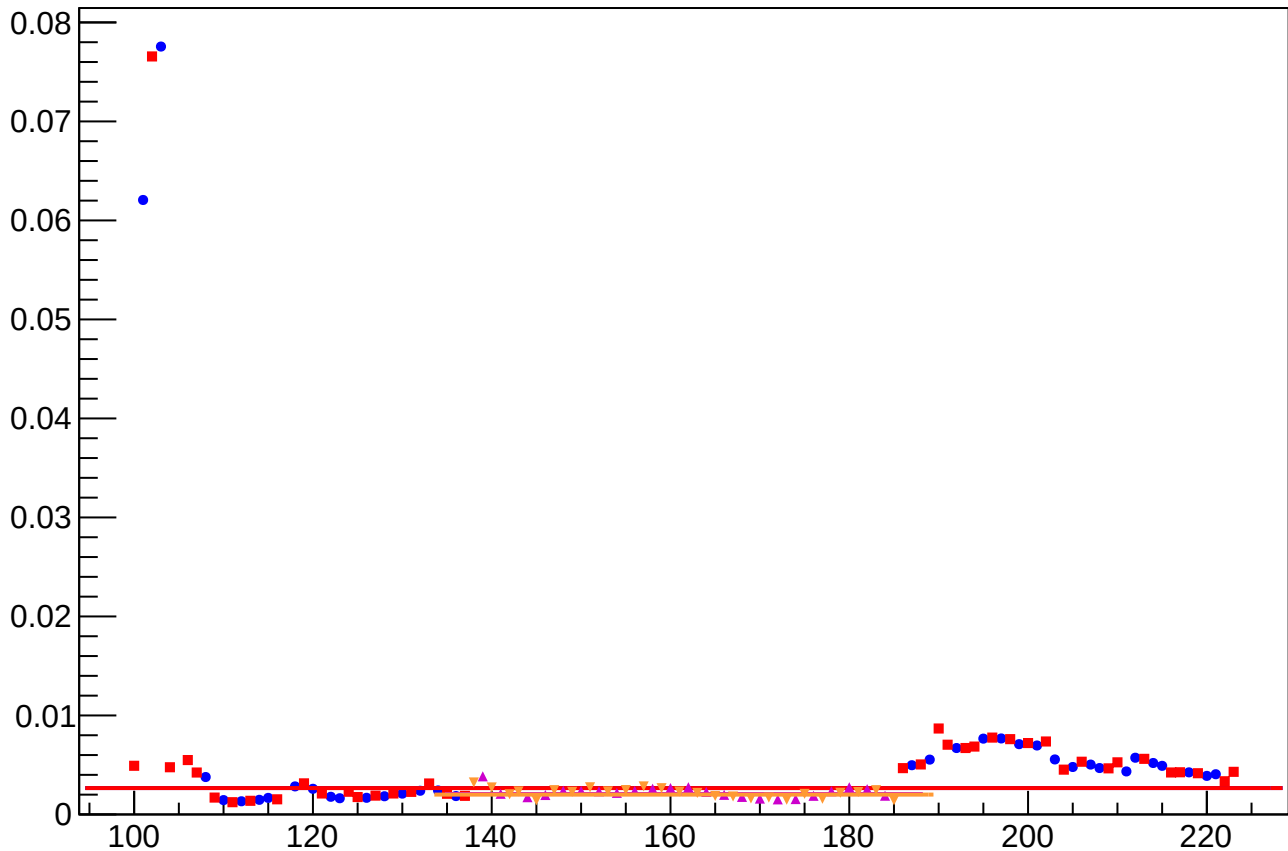
Right: 2.585+/-0.000 χ^2/NDF : 301674595207.3/73

In: 2.535+/-0.000 χ^2/NDF : 245005138958.7/57

Out: 2.532+/-0.000 χ^2/NDF : 178957573337.6/63

All: 2.534+/-0.000 χ^2/NDF : 423986625434.1

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 11197341.7/34

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1469103.5/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 11147977.6/38

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

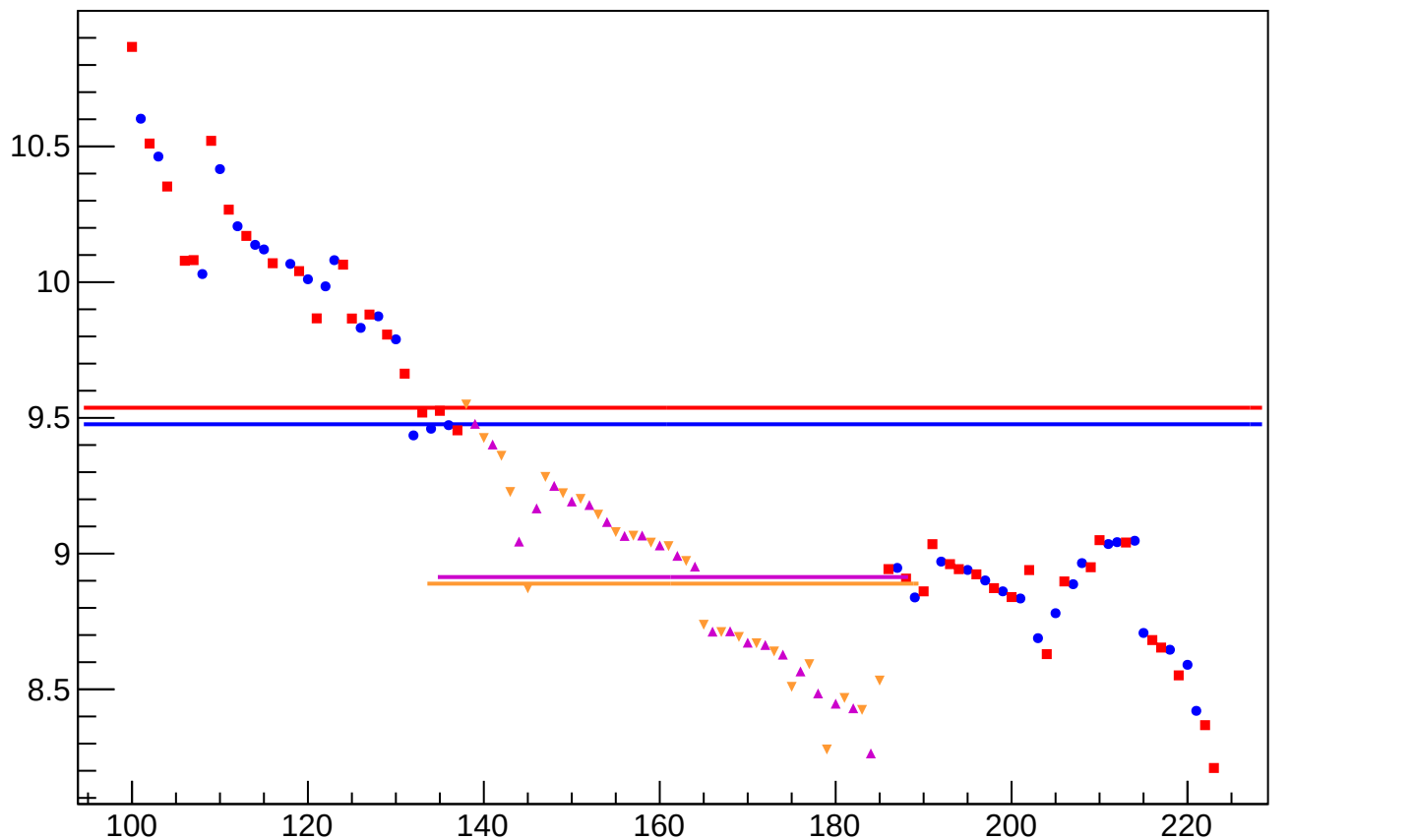
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 22345346.0/73

In: 0.002 $\pm$ 0.000 χ^2 /NDF:13372610.7/57

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:13700562.6/63

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 27083419.8/121

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.477 ± 0.000 $\chi^2/\text{NDF}: 137289941592.5/34$

Left Out: 8.889 ± 0.000 $\chi^2/\text{NDF}: 34704694045.9/24$

Right Out: 9.537 ± 0.000 $\chi^2/\text{NDF}: 162714767534.3/38$

Left In: 8.914 ± 0.000 $\chi^2/\text{NDF}: 28497227562.7/22$

Left: 8.901 ± 0.000 $\chi^2/\text{NDF}: 63312247922.6/47$

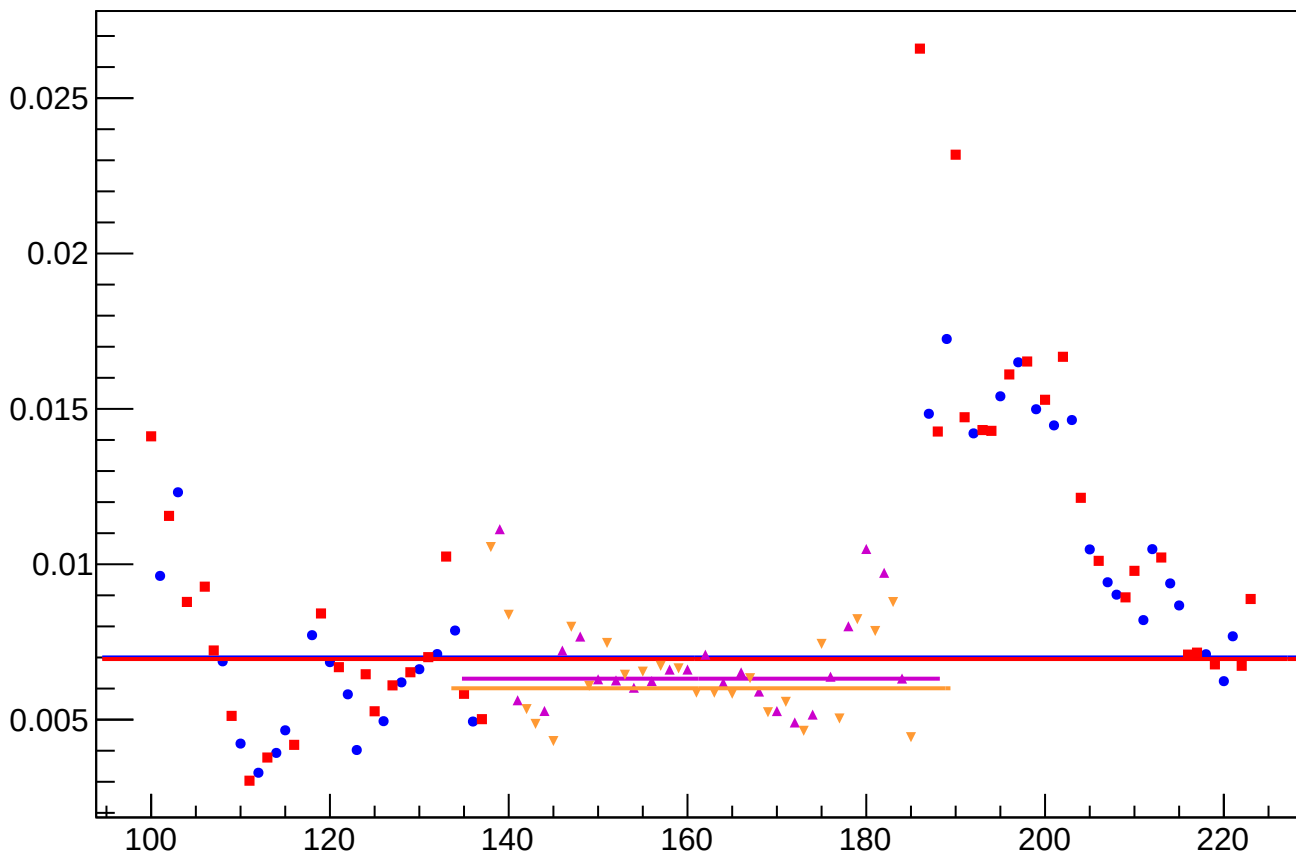
Right: 9.507 ± 0.000 $\chi^2/\text{NDF}: 300589380669.4/73$

In: 9.180 ± 0.000 $\chi^2/\text{NDF}: 217985516200.7/57$

Out: 9.175 ± 0.000 $\chi^2/\text{NDF}: 272031227719.9/63$

All: 9.178 ± 0.000 $\chi^2/\text{NDF}: 490024431171.5$

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 6131712.3/34

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1312525.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 7584201.8/38

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

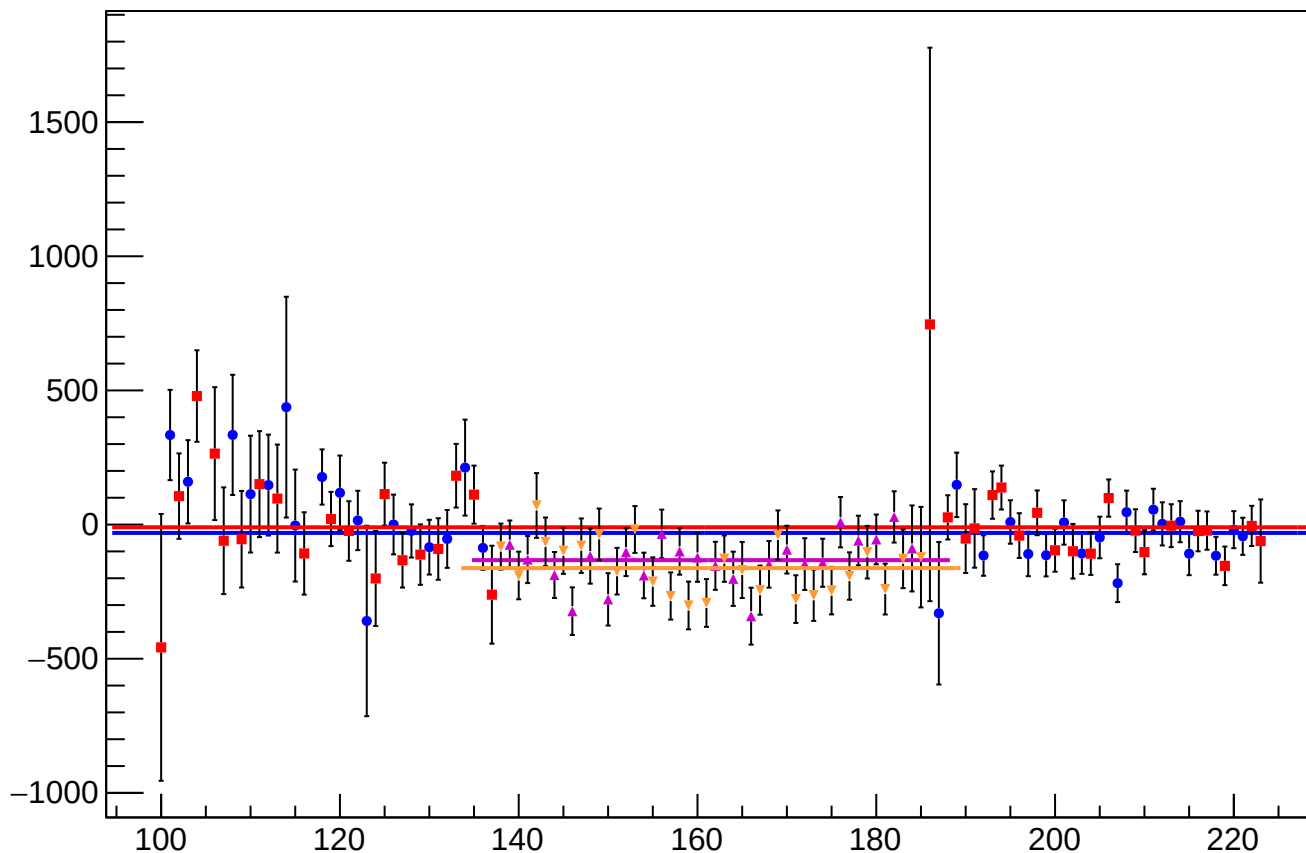
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 13716751.5/73

In: 0.007 $\pm$ 0.000 χ^2 /NDF:7372625.0/57

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:9211169.2/63

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 16616327.8/121

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -31.104 ± 16.263 $\chi^2/\text{NDF}: 41.0/34$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: -10.142 ± 16.544 $\chi^2/\text{NDF}: 41.2/38$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

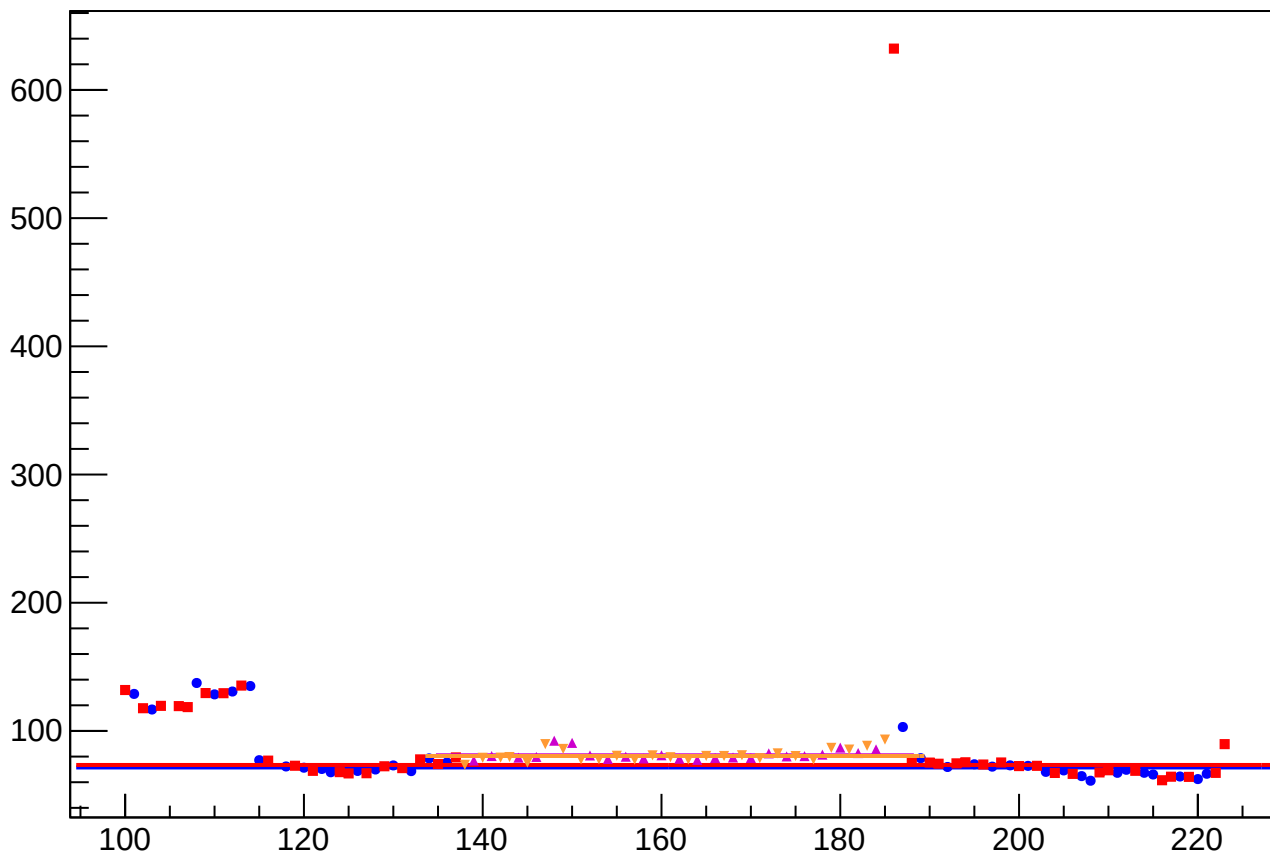
Right: -20.803 ± 11.598 $\chi^2/\text{NDF}: 82.9/73$

In: -72.968 ± 12.464 $\chi^2/\text{NDF}: 77.8/57$

Out: -76.709 ± 12.404 $\chi^2/\text{NDF}: 103.8/63$

All: -74.847 ± 8.792 $\chi^2/\text{NDF}: 181.6/121$

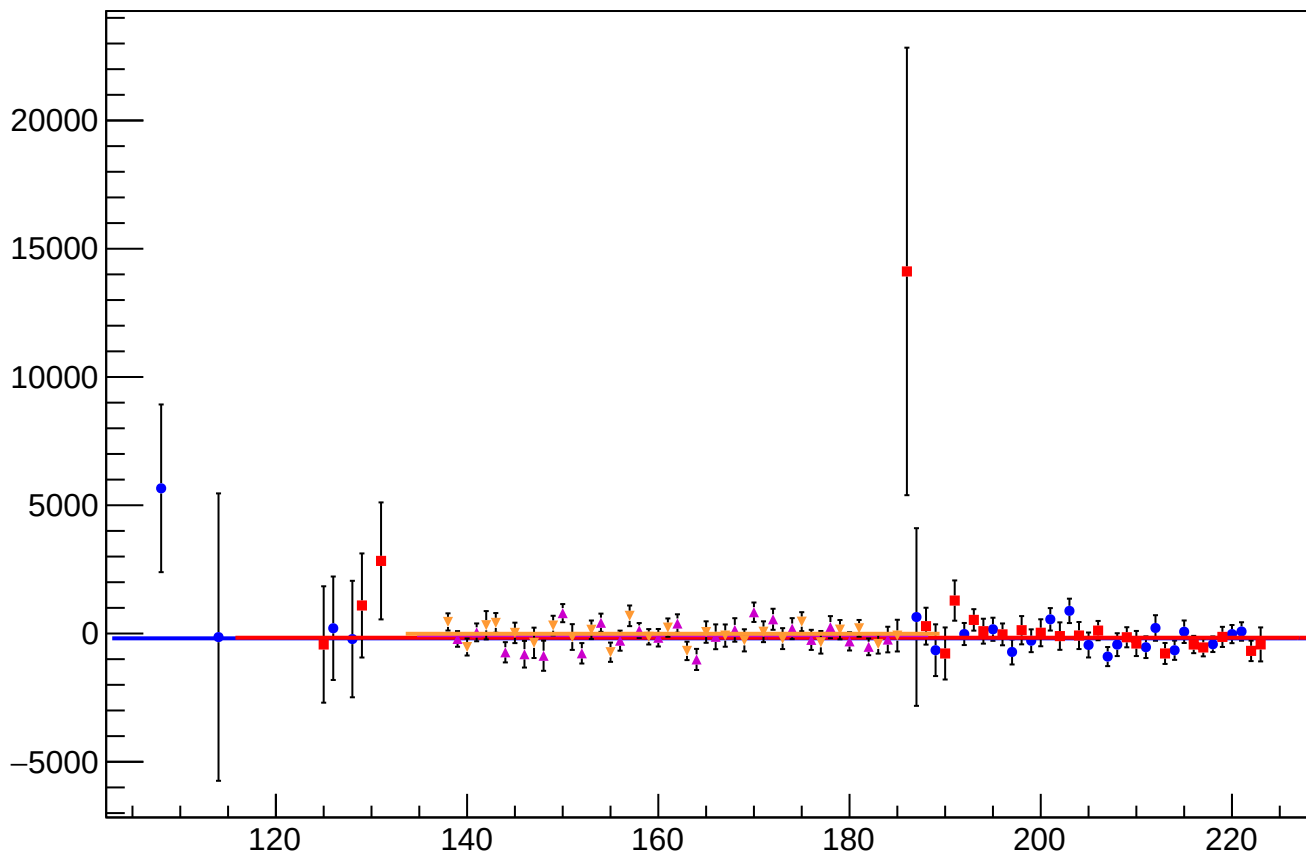
reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 71.507 $\pm$ 0.011 χ^2 /NDF: 1154853.5/34
Left Out: 80.459 $\pm$ 0.013 χ^2 /NDF: 89942.2/24
Right Out: 73.459 $\pm$ 0.012 χ^2 /NDF: 1873621.0/38
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: 72.466 $\pm$ 0.008 χ^2 /NDF: 3042636.4/73
In: 75.430 $\pm$ 0.009 χ^2 /NDF: 1509110.6/57
Out: 76.524 $\pm$ 0.009 χ^2 /NDF: 2120326.0/63
All: 75.980 $\pm$ 0.006 χ^2 /NDF: 3637181.5/121

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -187.890+/-102.170 χ^2/NDF : 22.2/21

Left Out: -10.486+/-78.391 χ^2/NDF : 22.5/24

Right Out: -164.047+/-105.081 χ^2/NDF : 19.2/22

Left In: -64.591+/-80.047 χ^2/NDF : 37.4/22

Left: -36.973+/-56.007 χ^2/NDF : 60.2/47

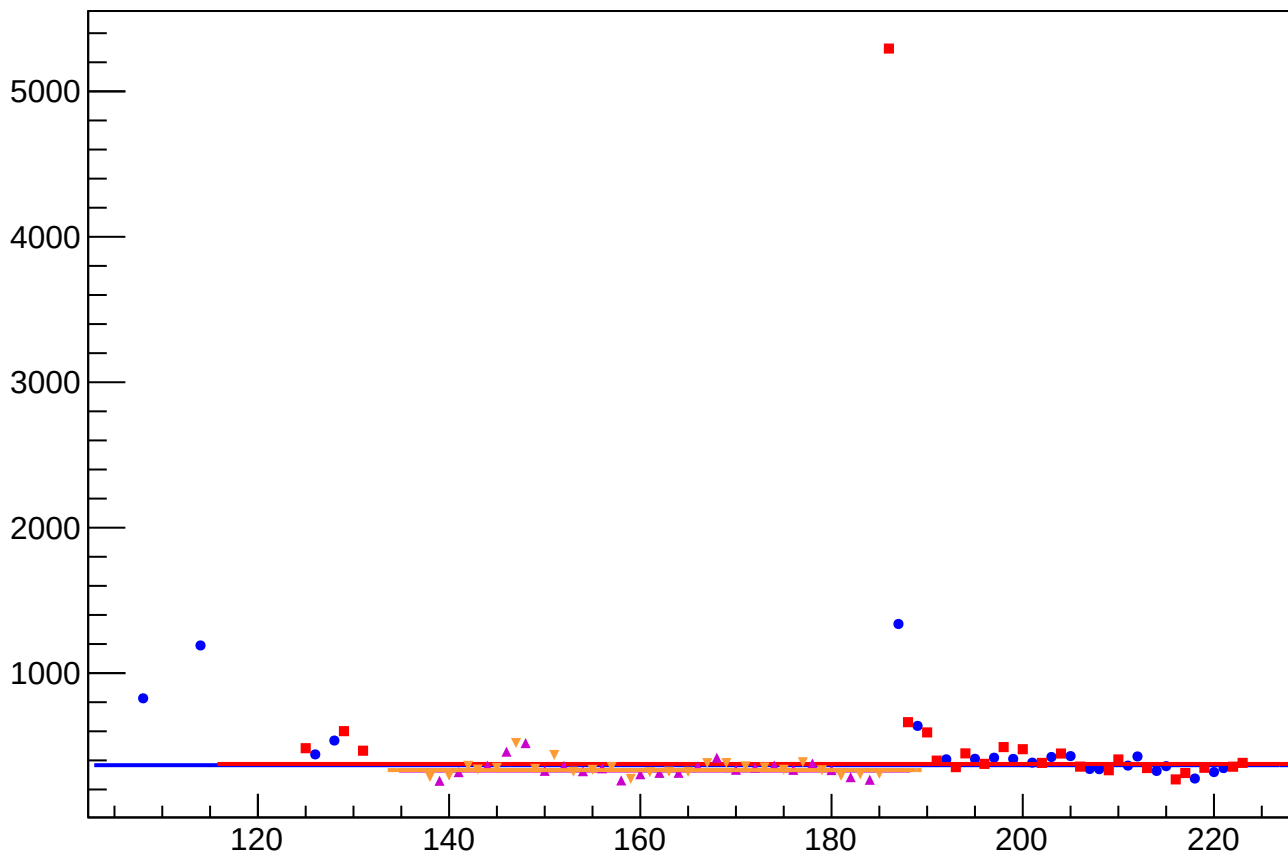
Right: -176.303+/-73.253 χ^2/NDF : 41.4/44

In: -111.488+/-63.011 χ^2/NDF : 60.5/44

Out: -65.390+/-62.833 χ^2/NDF : 43.1/47

All: -88.374+/-44.492 χ^2/NDF : 103.9/92

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 367.003+/-0.072 χ^2/NDF : 833898.8/21

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 375.467+/-0.074 χ^2/NDF : 1655935.2/22

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

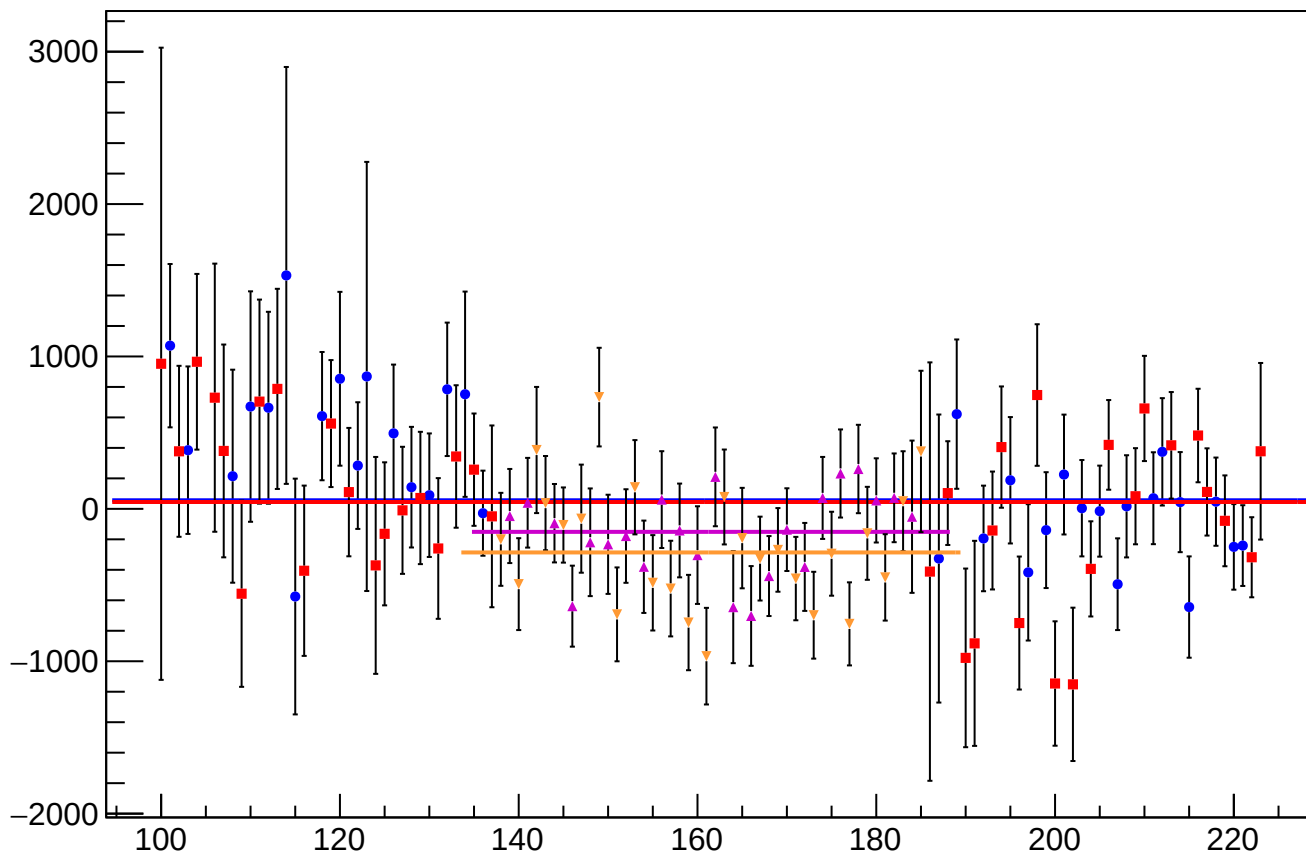
Right: 371.116+/-0.052 χ^2/NDF : 2496503.7/44

In: 344.065+/-0.045 χ^2/NDF : 1792555.2/44

Out: 348.334+/-0.044 χ^2/NDF : 2455620.7/47

All: 346.205+/-0.031 χ^2/NDF : 4252777.7/92

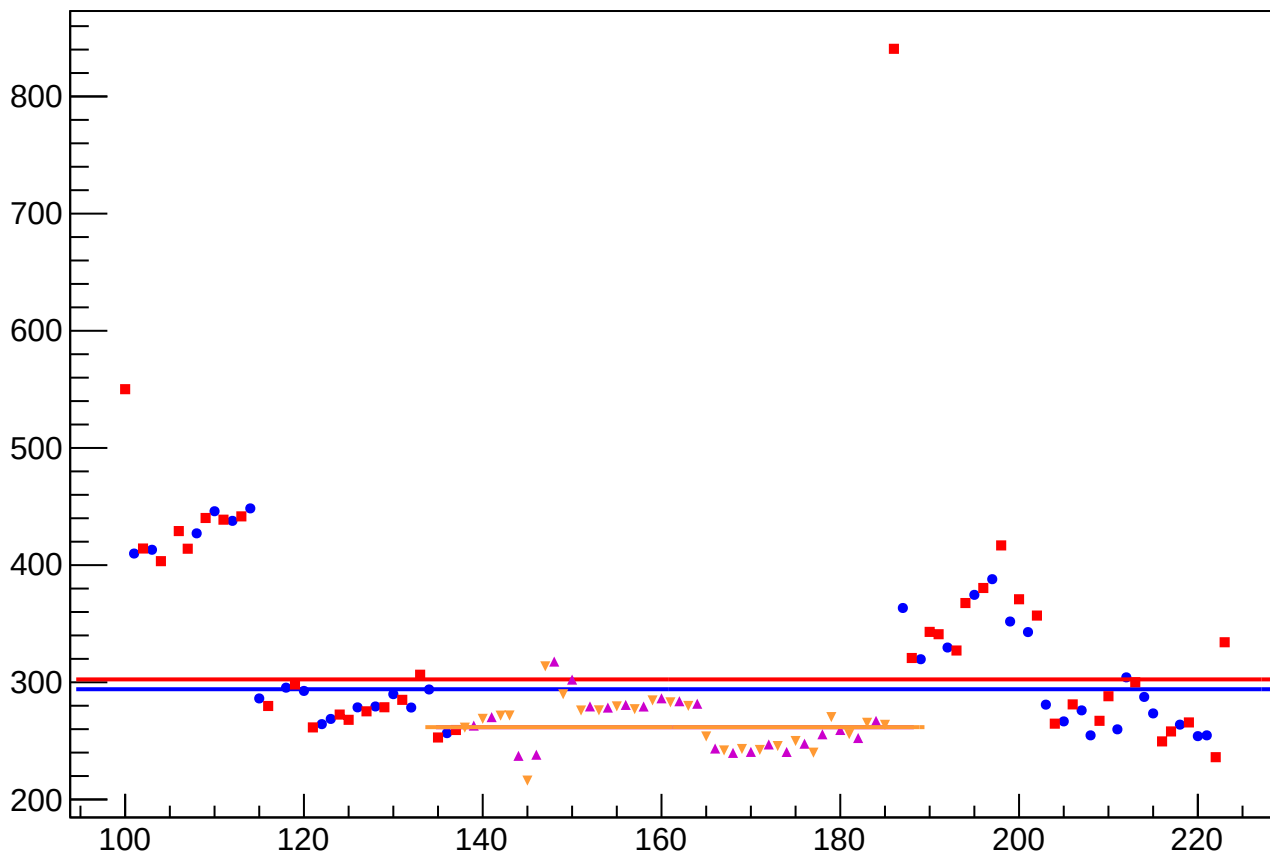
reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 56.276 ± 66.936 $\chi^2/\text{NDF}: 31.5/34$
 Left Out: -286.030 ± 61.095 $\chi^2/\text{NDF}: 36.6/24$
 Right Out: 45.067 ± 68.088 $\chi^2/\text{NDF}: 49.4/38$
 Left In: -150.920 ± 62.818 $\chi^2/\text{NDF}: 18.7/22$

Left: -220.353 ± 43.797 $\chi^2/\text{NDF}: 57.6/47$
 Right: 50.767 ± 47.733 $\chi^2/\text{NDF}: 80.9/73$
 In: -53.891 ± 45.805 $\chi^2/\text{NDF}: 55.3/57$
 Out: -138.354 ± 45.473 $\chi^2/\text{NDF}: 99.1/63$
 All: -96.430 ± 32.271 $\chi^2/\text{NDF}: 156.1/121$

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 294.081+/-0.047 χ^2/NDF : 1000933.6/34

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 302.475+/-0.048 χ^2/NDF : 1632908.3/38

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

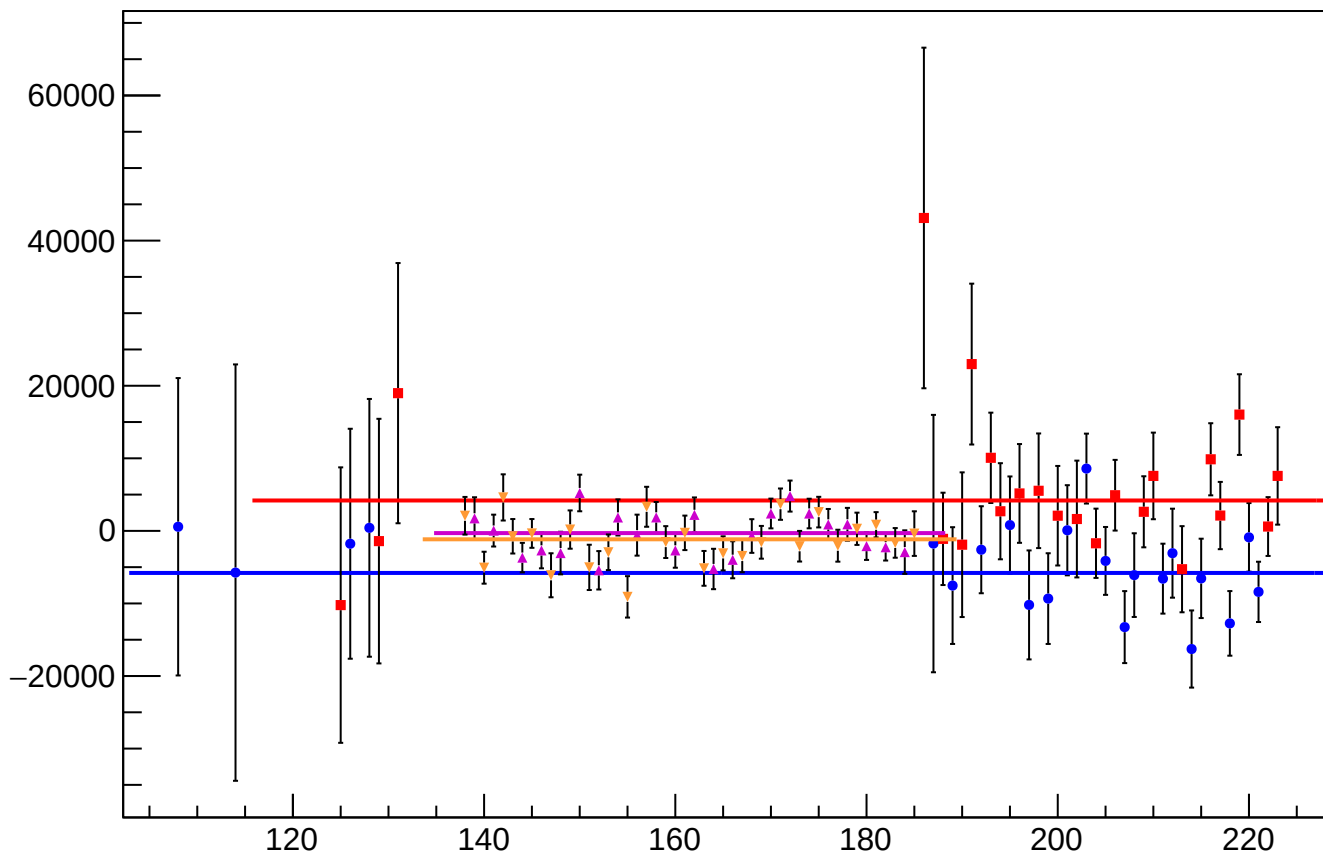
Right: 298.206+/-0.034 χ^2/NDF : 2649300.9/73

In: 276.830+/-0.032 χ^2/NDF : 1479017.1/57

Out: 279.899+/-0.032 χ^2/NDF : 2263060.7/63

All: 278.376+/-0.023 χ^2/NDF : 3746598.0/123

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -5795.488 $\pm$ 1291.032 χ^2 /NDF: 22.5/21

Left Out: -1161.443 $\pm$ 469.036 χ^2 /NDF:38.8/24

Right Out: 4189.658 $\pm$ 1331.795 χ^2 /NDF: 20.8/22

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

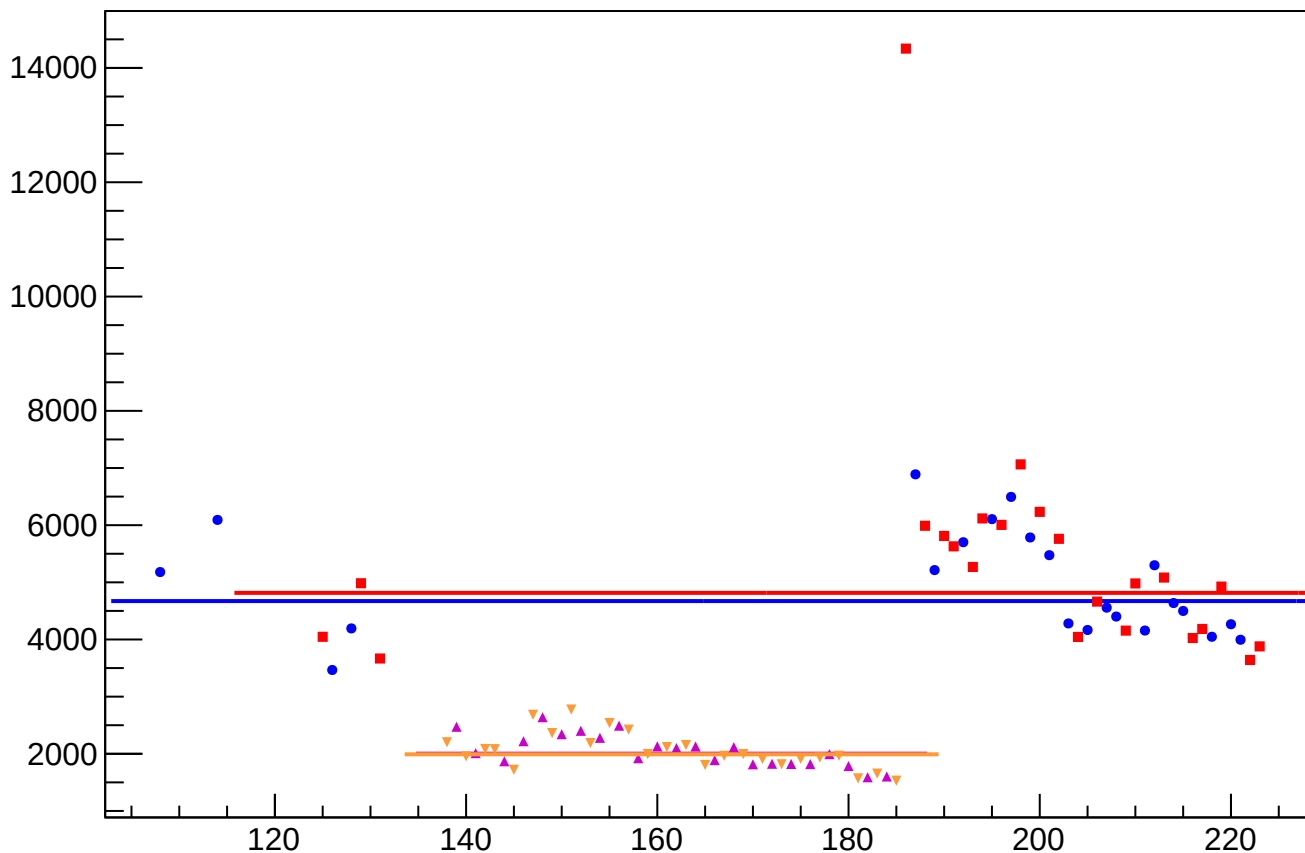
Right: -958.061 $\pm$ 926.973 χ^2 /NDF: 72.4/44

In: -980.474 $\pm$ 453.017 χ^2 /NDF:73.8/44

Out: -570.967 $\pm$ 442.402 χ^2 /NDF:74.0/47

All: -770.866 $\pm$ 316.512 χ^2 /NDF: 148.2/92

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4672.230+/-0.913 χ^2/NDF : 619831.8/21

Left Out: 1991.105+/-0.332 χ^2/NDF : 726310.6/24

Right Out: 4815.687+/-0.942 χ^2/NDF : 1255263.7/22

Left In: 2002.154+/-0.342 χ^2/NDF : 585947.4/22

Left: 1996.458+/-0.238 χ^2/NDF : 1312795.7/47

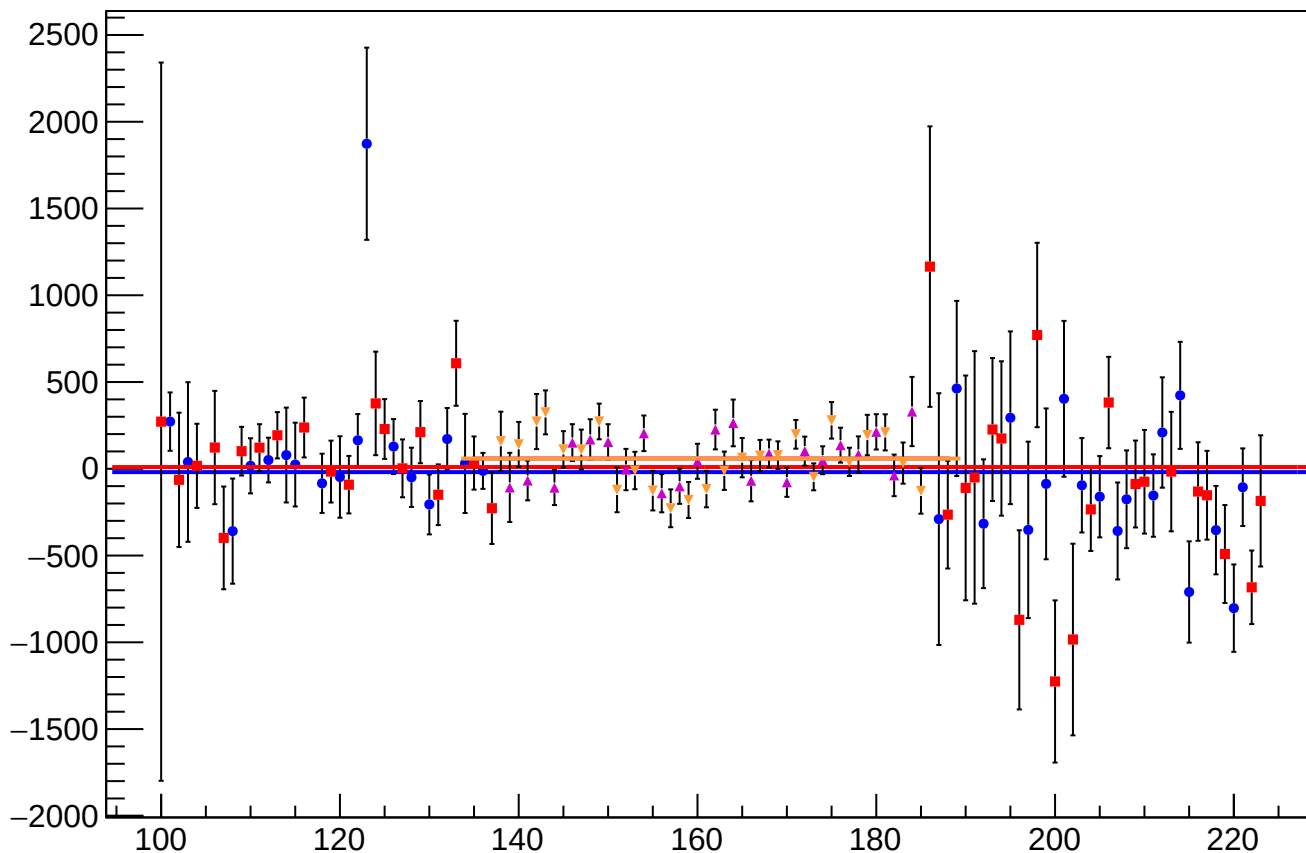
Right: 4741.730+/-0.655 χ^2/NDF : 1887059.1/44

In: 2330.914+/-0.320 χ^2/NDF : 8707131.9/44

Out: 2302.788+/-0.313 χ^2/NDF : 9985164.2/47

All: 2316.517+/-0.224 χ^2/NDF : 18696242.1/9

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: -19.182 ± 37.406 $\chi^2/\text{NDF}: 47.0/34$

Left Out: 58.983 ± 21.137 $\chi^2/\text{NDF}: 46.9/24$

Right Out: 10.104 ± 37.404 $\chi^2/\text{NDF}: 56.3/38$

Left In: 59.235 ± 21.921 $\chi^2/\text{NDF}: 29.4/22$

Left: 59.104 ± 15.216 $\chi^2/\text{NDF}: 76.3/47$

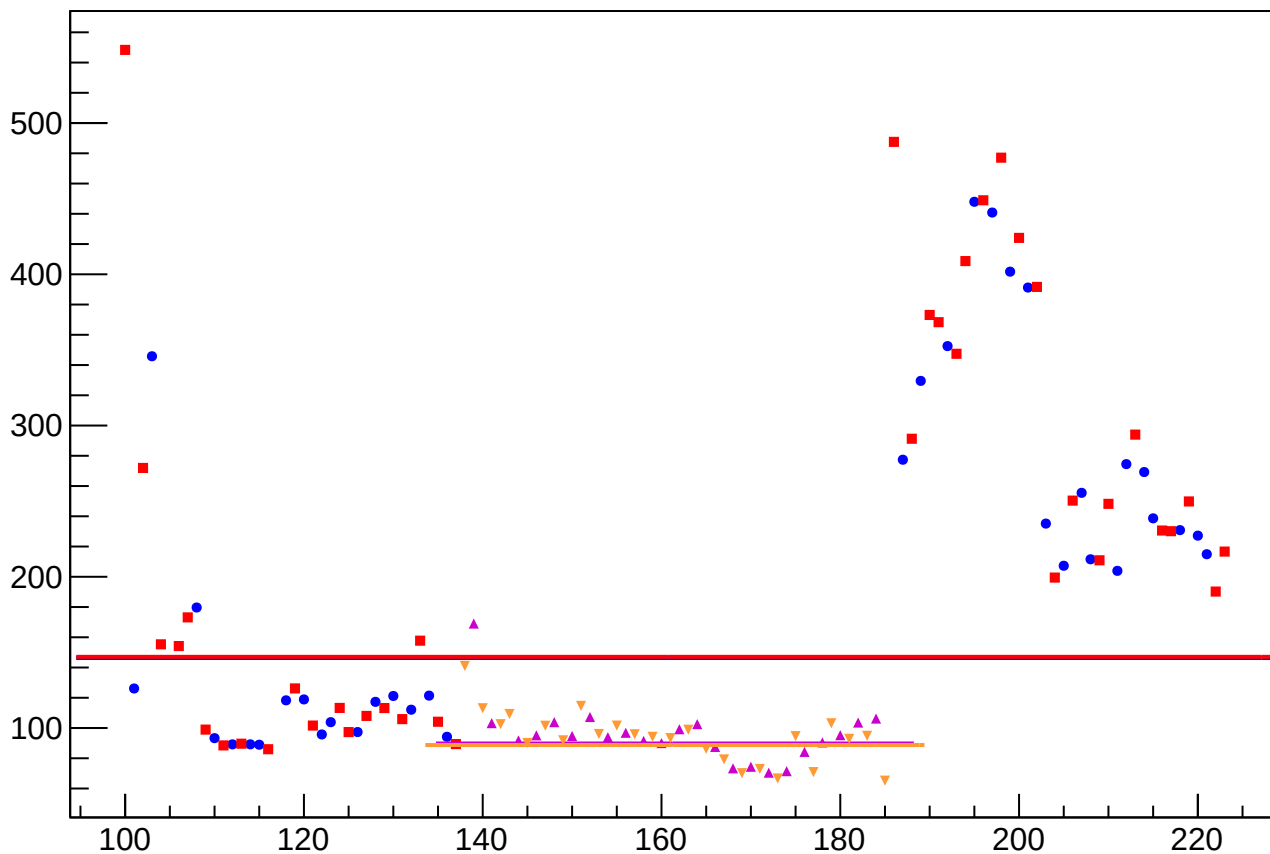
Right: -4.538 ± 26.449 $\chi^2/\text{NDF}: 103.6/73$

In: 39.188 ± 18.913 $\chi^2/\text{NDF}: 79.7/57$

Out: 47.152 ± 18.402 $\chi^2/\text{NDF}: 104.5/63$

All: 43.279 ± 13.189 $\chi^2/\text{NDF}: 184.2/121$

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 146.324 $\pm$ 0.026 χ^2 /NDF: 8422681.6/34

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 147.074 $\pm$ 0.026 χ^2 /NDF: 9372850.1/38

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

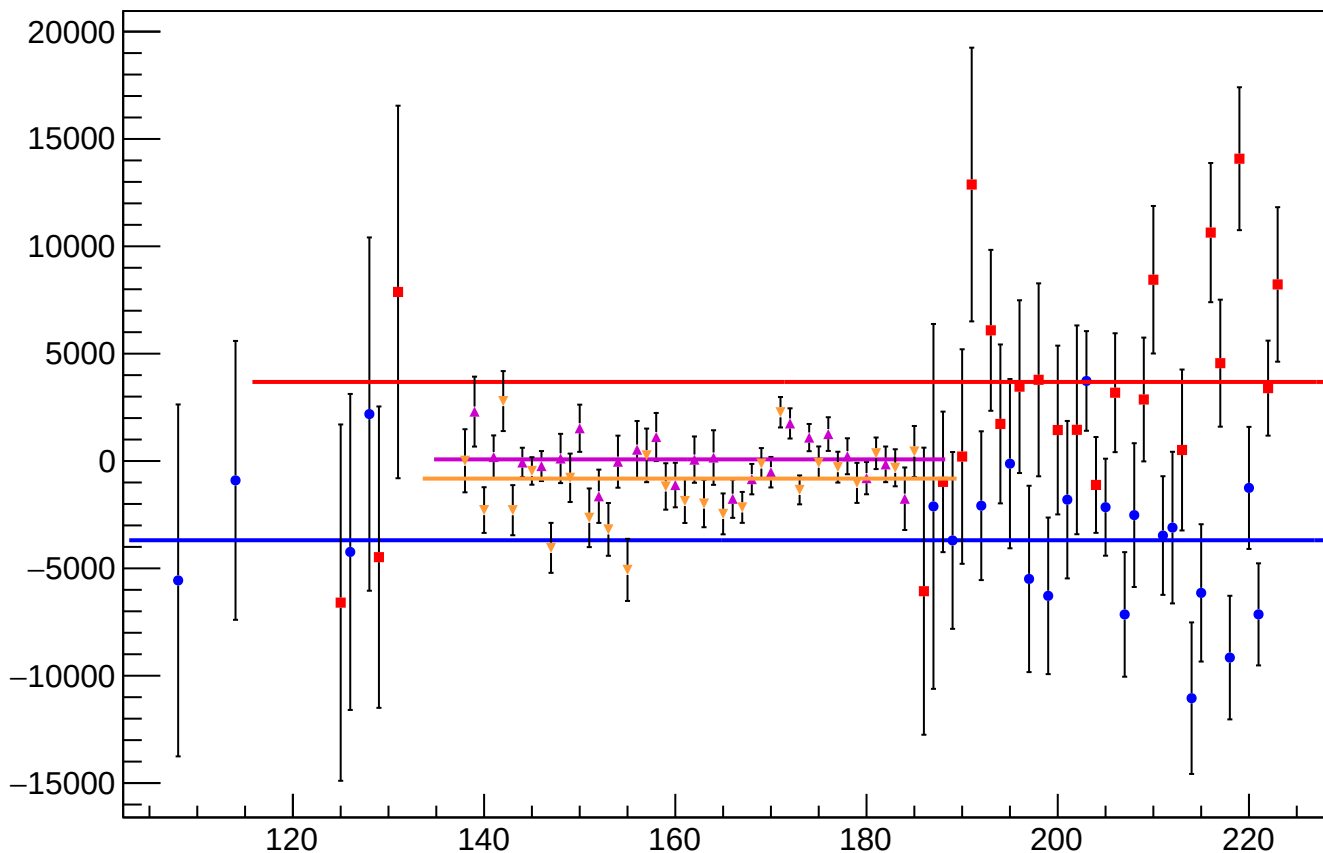
Right: 146.699 $\pm$ 0.019 χ^2 /NDF: 17795933.6/73

In: 104.224 $\pm$ 0.013 χ^2 /NDF:12712049.1/57

Out: 102.866 $\pm$ 0.013 χ^2 /NDF:14138182.4/63

All: 103.527 $\pm$ 0.009 χ^2 /NDF: 26855532.8/12

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -3690.396 ± 726.405 $\chi^2/\text{NDF}: 26.4/21$

Left Out: -818.877 ± 184.464 $\chi^2/\text{NDF}: 68.2/24$

Right Out: 3682.670 ± 749.601 $\chi^2/\text{NDF}: 34.5/22$

Left In: 76.204 ± 186.651 $\chi^2/\text{NDF}: 28.3/22$

Left: -376.610 ± 131.202 $\chi^2/\text{NDF}: 108.1/47$

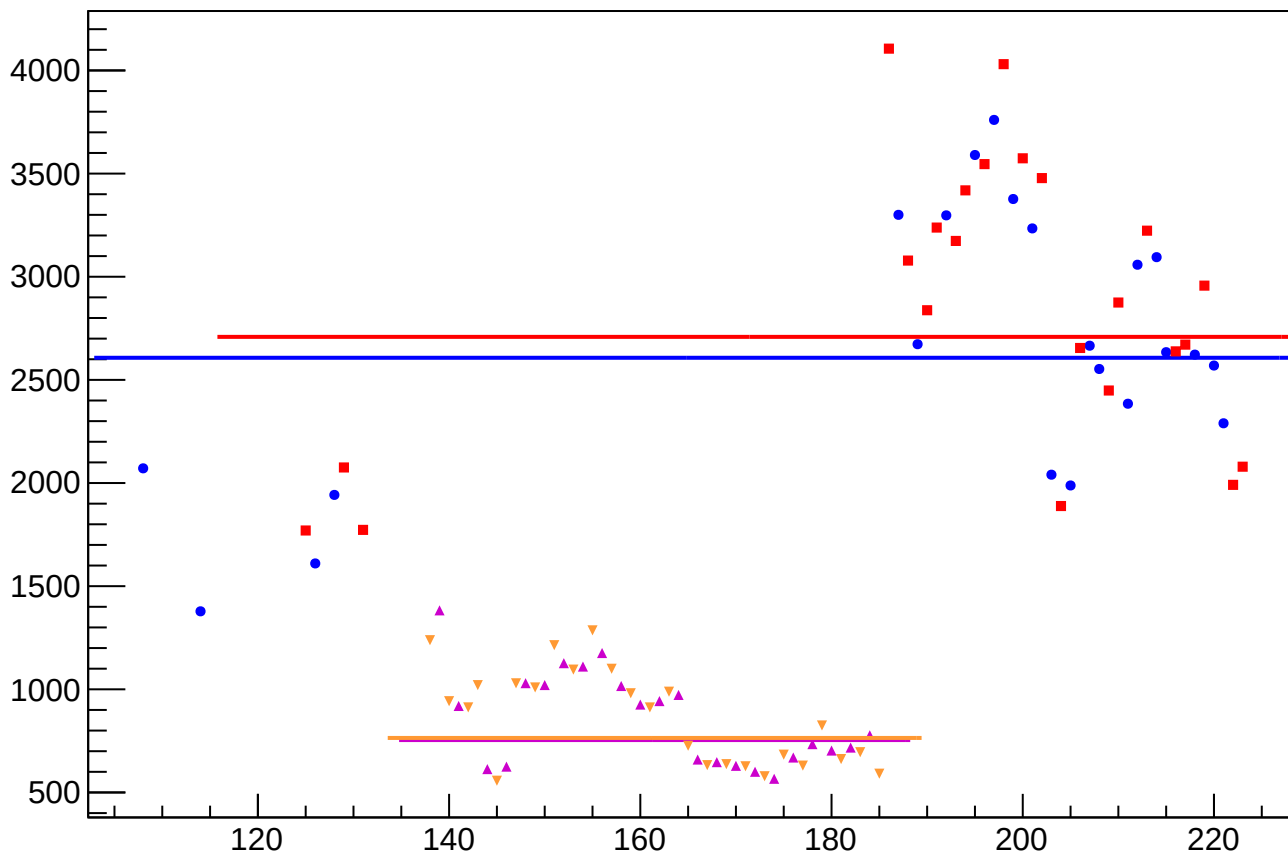
Right: -119.704 ± 521.654 $\chi^2/\text{NDF}: 110.8/44$

In: -157.079 ± 180.778 $\chi^2/\text{NDF}: 79.9/44$

Out: -561.843 ± 179.120 $\chi^2/\text{NDF}: 136.7/47$

All: -361.326 ± 127.239 $\chi^2/\text{NDF}: 219.1/92$

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2607.196 +/- 0.514 χ^2/NDF : 1027101.4/21

Left Out: 764.280 +/- 0.130 χ^2/NDF : 2315985.8/24

Right Out: 2708.535 +/- 0.530 χ^2/NDF : 1317702.3/22

Left In: 754.027 +/- 0.132 χ^2/NDF : 2013386.7/22

Left: 759.214 +/- 0.093 χ^2/NDF : 4332425.4/47

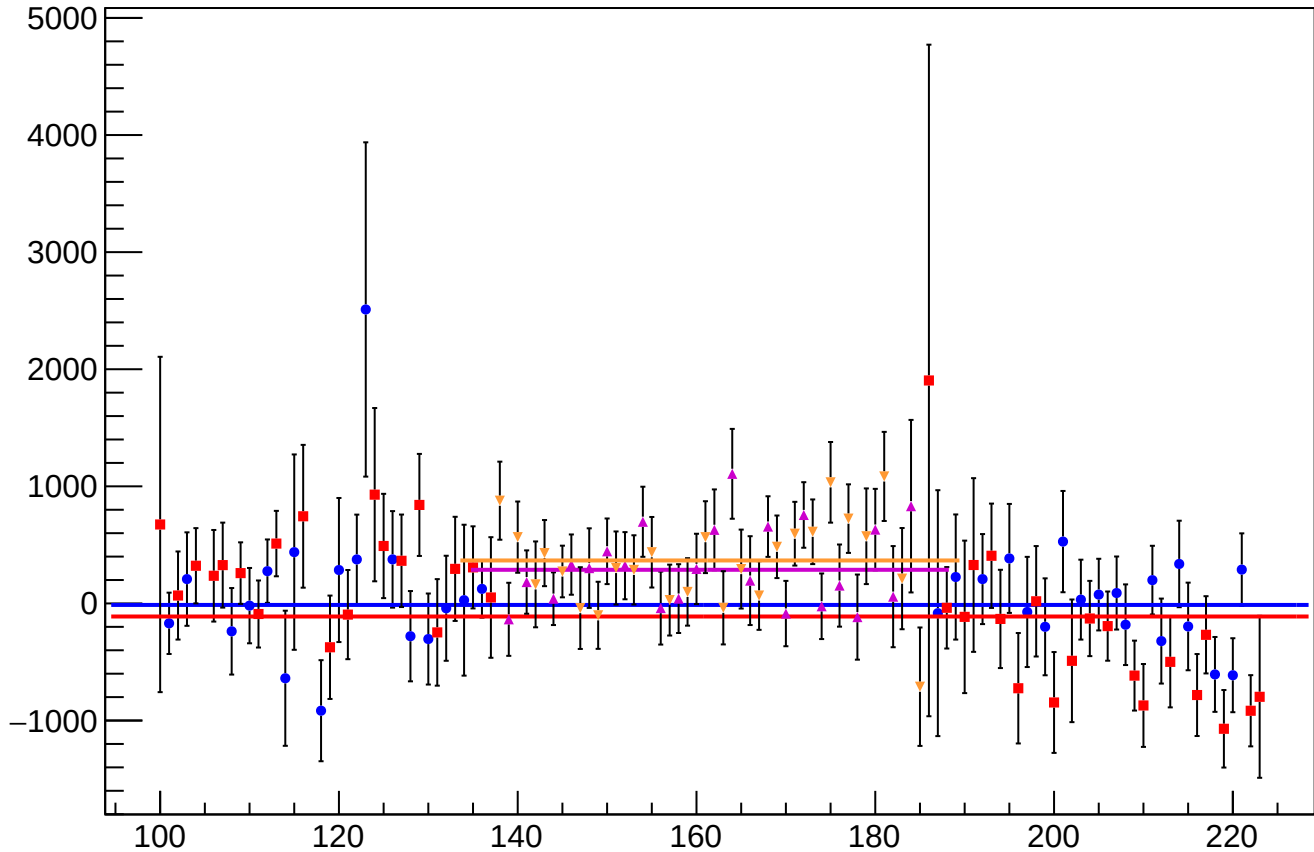
Right: 2656.274 +/- 0.369 χ^2/NDF : 2363654.5/44

In: 868.802 +/- 0.128 χ^2/NDF : 15251039.6/44

Out: 875.295 +/- 0.127 χ^2/NDF : 16320202.5/47

All: 872.078 +/- 0.090 χ^2/NDF : 31572543.7/92

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -12.810 ± 63.513 χ^2/NDF : 28.5/34

Left Out: 367.028 ± 61.943 χ^2/NDF : 28.2/24

Right Out: -111.595 ± 62.794 χ^2/NDF : 62.6/38

Left In: 287.246 ± 64.141 χ^2/NDF : 23.9/22

Left: 328.527 ± 44.557 χ^2/NDF : 52.9/47

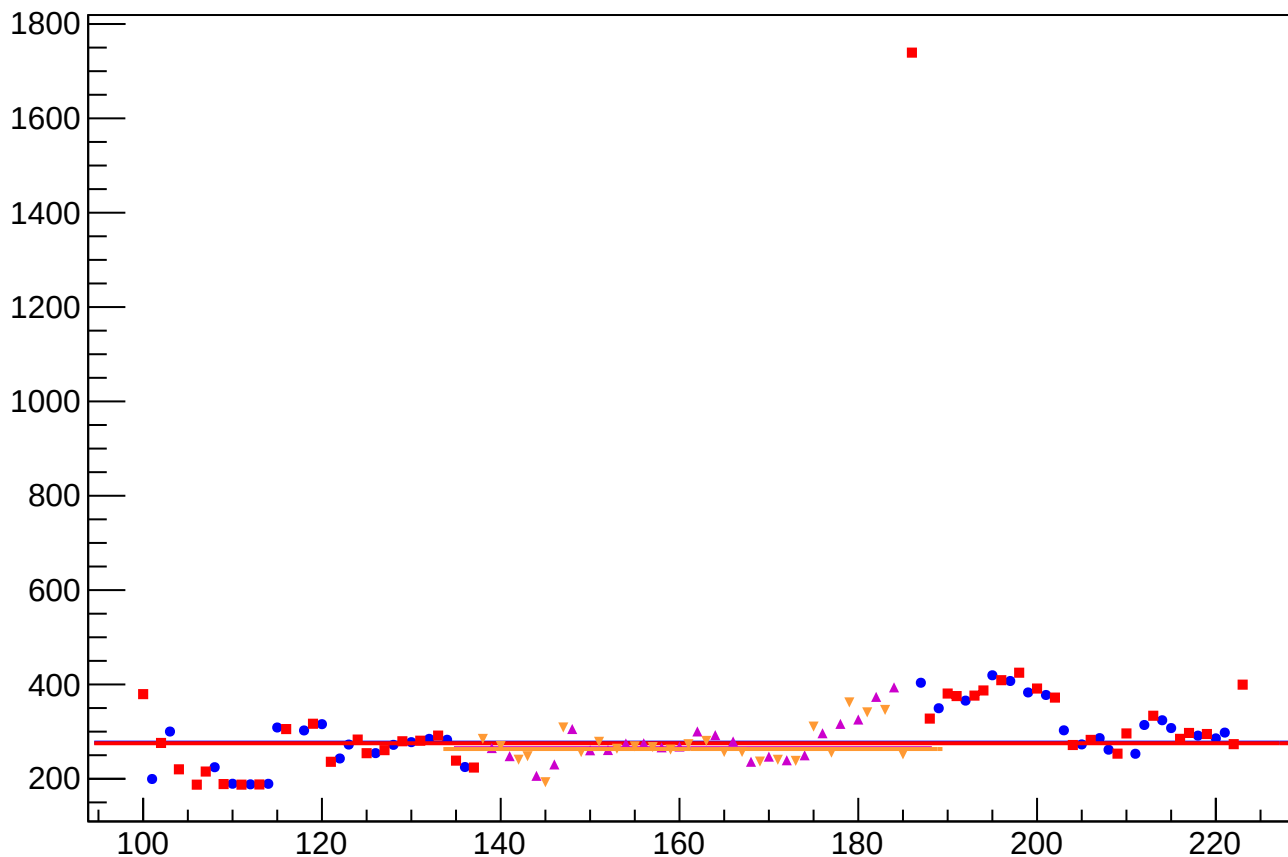
Right: -62.766 ± 44.654 χ^2/NDF : 92.4/73

In: 135.744 ± 45.131 χ^2/NDF : 63.5/57

Out: 130.979 ± 44.098 χ^2/NDF : 120.3/63

All: 133.306 ± 31.541 χ^2/NDF : 183.8/121

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 276.700 $\pm$ 0.045 χ^2 /NDF: 1626646.8/34

Left Out: 263.103 $\pm$ 0.044 χ^2 /NDF: 642226.0/24

Right Out: 275.374 $\pm$ 0.044 χ^2 /NDF: 2543632.8/38

Left In: 264.923 $\pm$ 0.045 χ^2 /NDF: 609024.7/22

Left: 263.981 $\pm$ 0.032 χ^2 /NDF: 1252084.1/47

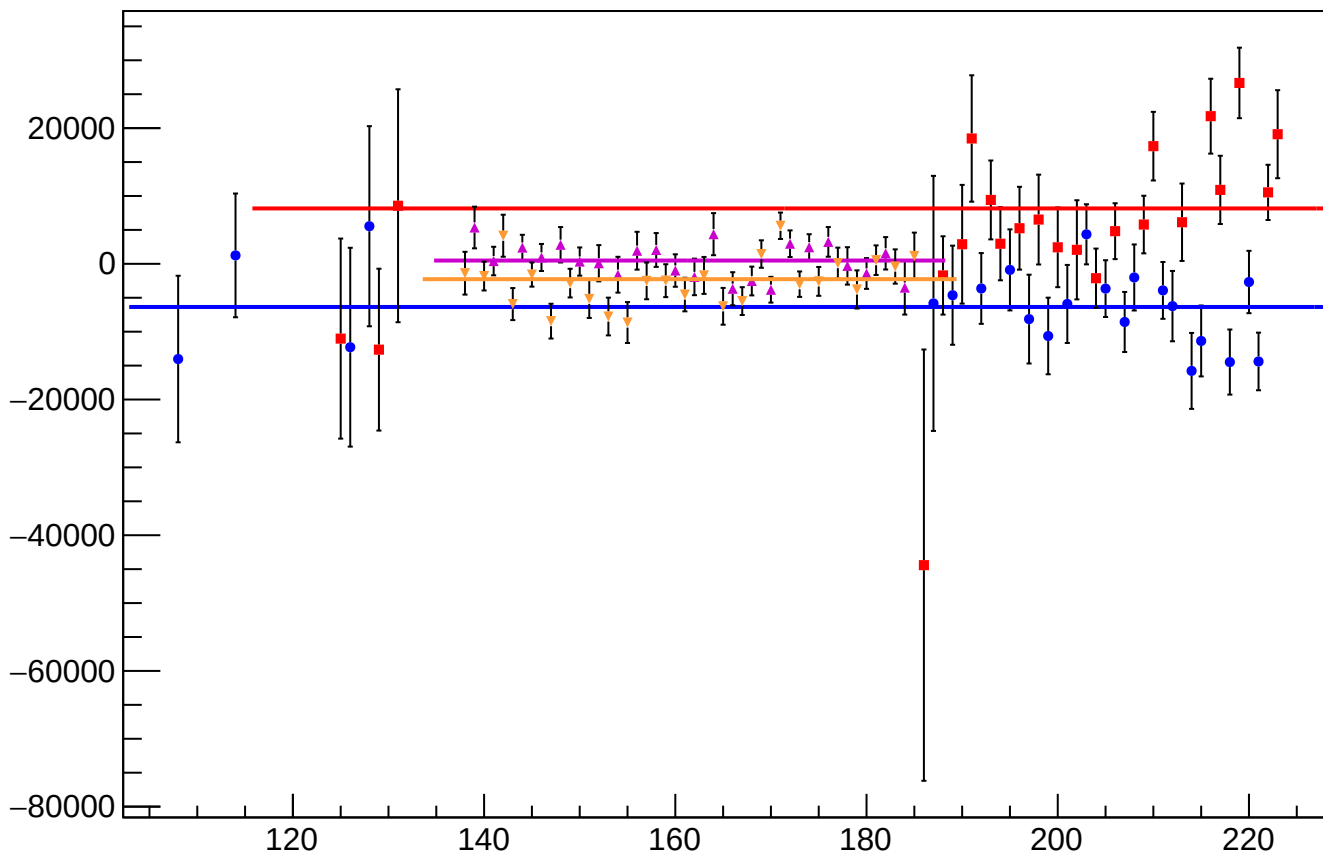
Right: 276.030 $\pm$ 0.032 χ^2 /NDF: 4170720.6/73

In: 270.870 $\pm$ 0.032 χ^2 /NDF: 2269717.8/57

Out: 269.155 $\pm$ 0.031 χ^2 /NDF: 3224568.7/63

All: 269.992 $\pm$ 0.022 χ^2 /NDF: 5495763.5/123

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -6358.121 $\pm$ 1187.147 χ^2/NDF : 22.2/21

Left Out: -2260.196 $\pm$ 475.336 χ^2/NDF : 52.3/24

Right Out: 8164.838 $\pm$ 1228.696 χ^2/NDF : 47.1/22

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

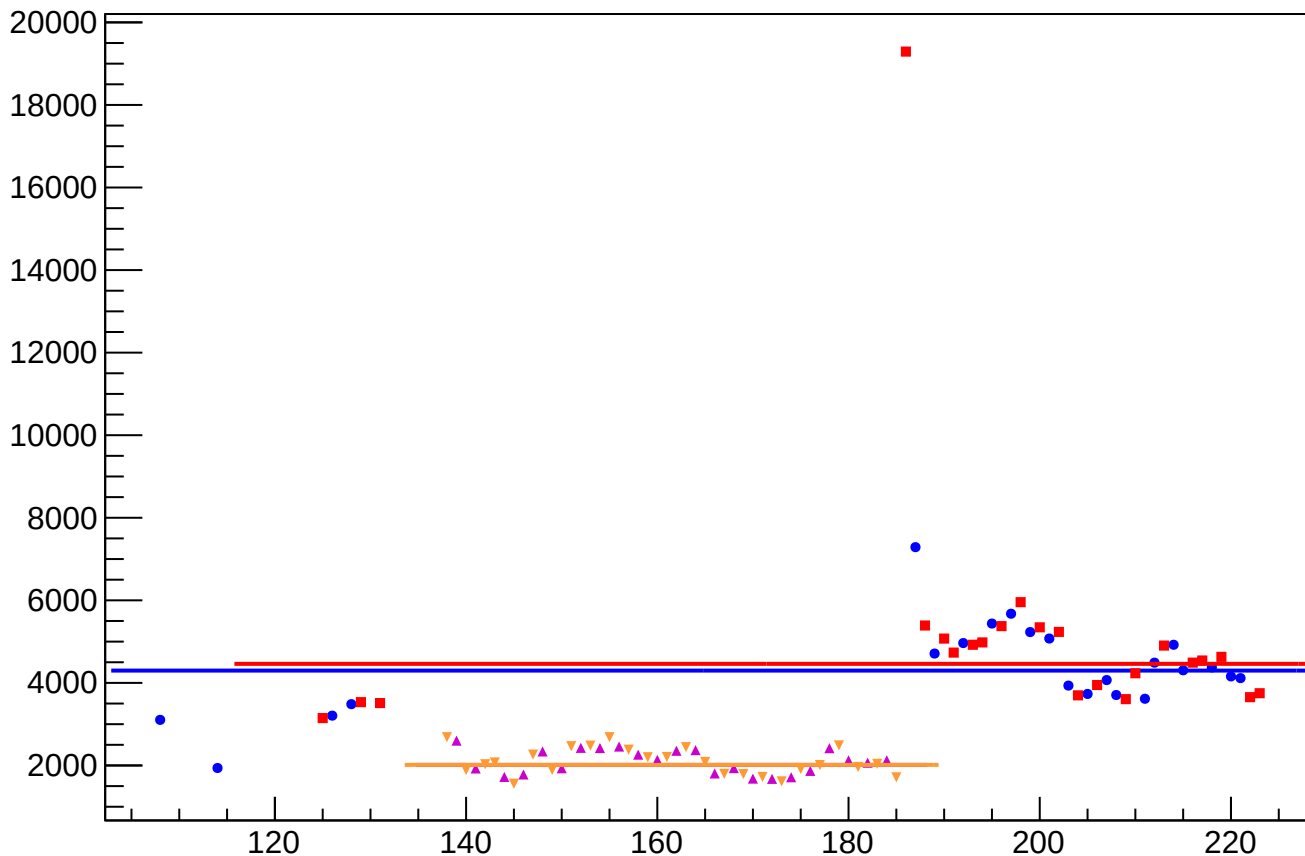
Right: 653.658 $\pm$ 853.751 χ^2/NDF : 141.5/44

In: -501.829 $\pm$ 450.930 χ^2/NDF : 75.4/44

Out: -903.074 $\pm$ 443.318 χ^2/NDF : 162.0/47

All: -705.867 $\pm$ 316.130 χ^2/NDF : 237.8/92

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4298.229+/-0.839 χ^2/NDF : 683781.9/21

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4461.413+/-0.869 χ^2/NDF : 1073472.8/22

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

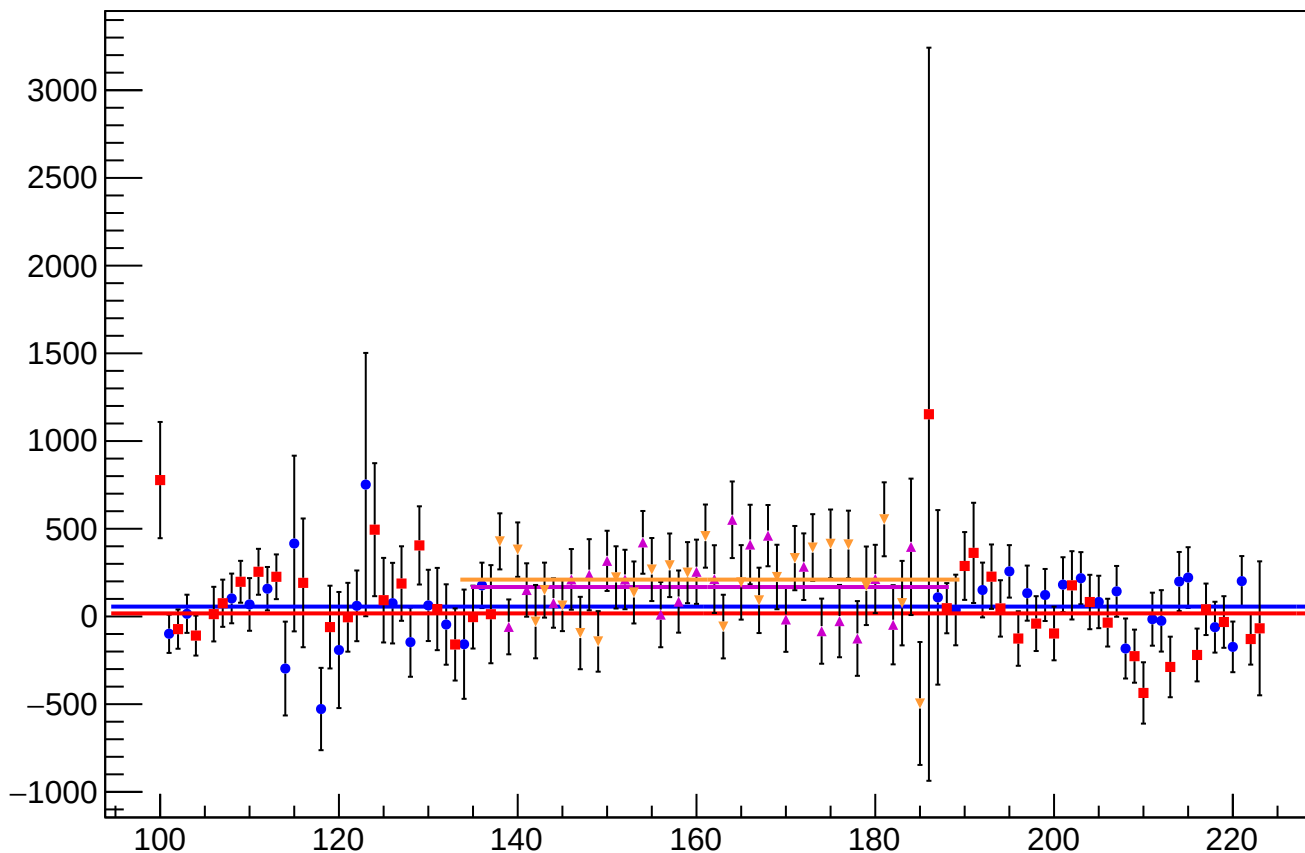
Right: 4377.015+/-0.604 χ^2/NDF : 1775499.8/44

In: 2342.925+/-0.319 χ^2/NDF : 7686283.1/44

Out: 2332.694+/-0.313 χ^2/NDF : 8810698.0/47

All: 2337.723+/-0.224 χ^2/NDF : 16497504.6/95

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 56.217+/-28.171 χ^2/NDF : 28.5/34

Left Out: 210.086+/-37.093 χ^2/NDF : 27.5/24

Right Out: 17.431+/-27.113 χ^2/NDF : 45.8/38

Left In: 167.822+/-38.718 χ^2/NDF : 21.1/22

Left: 189.859+/-26.785 χ^2/NDF : 49.3/47

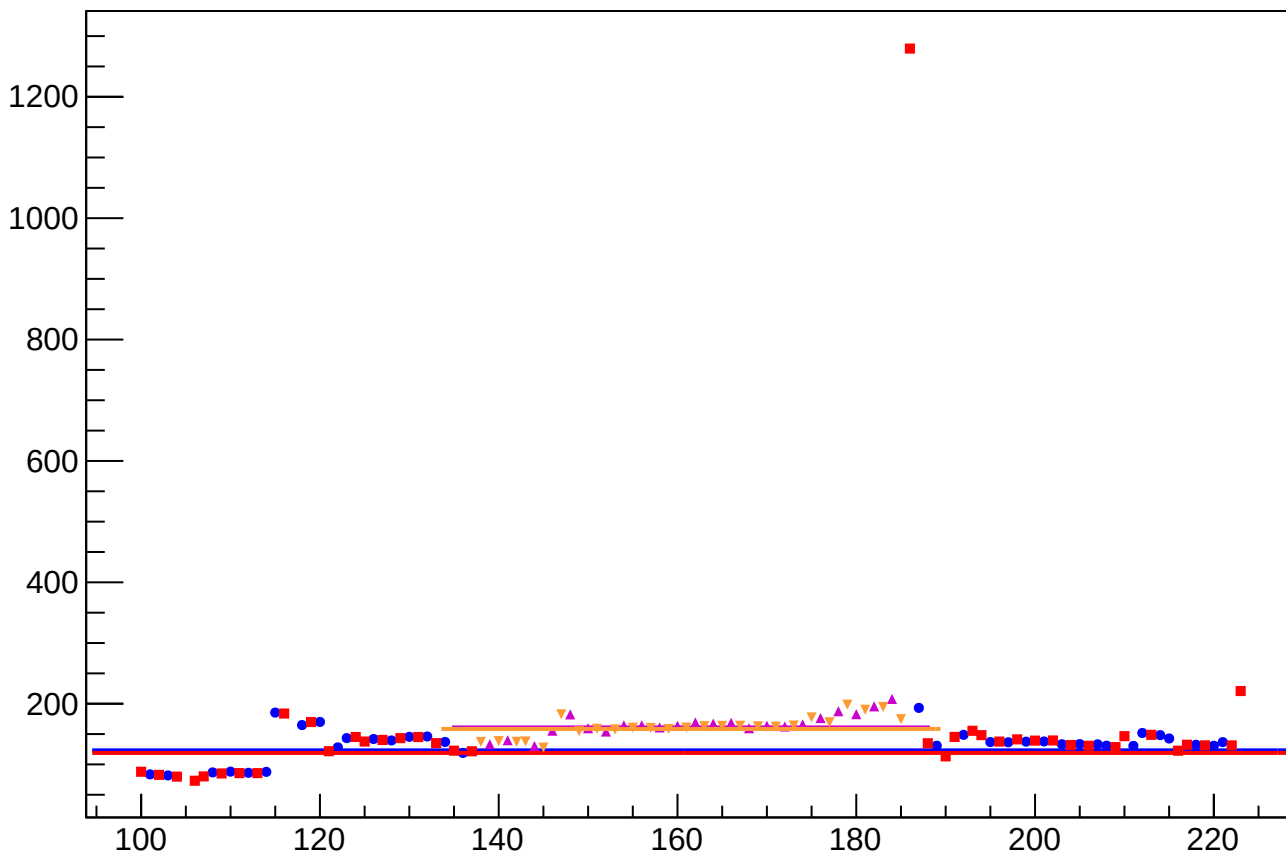
Right: 36.083+/-19.535 χ^2/NDF : 75.3/73

In: 94.849+/-22.779 χ^2/NDF : 55.1/57

Out: 84.519+/-21.889 χ^2/NDF : 90.9/63

All: 89.478+/-15.783 χ^2/NDF : 146.1/121

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 123.142 $\pm$ 0.020 χ^2 /NDF: 1574114.7/34

Left Out: 158.440 $\pm$ 0.026 χ^2 /NDF: 434300.9/24

Right Out: 118.959 $\pm$ 0.019 χ^2 /NDF: 2754708.7/38

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

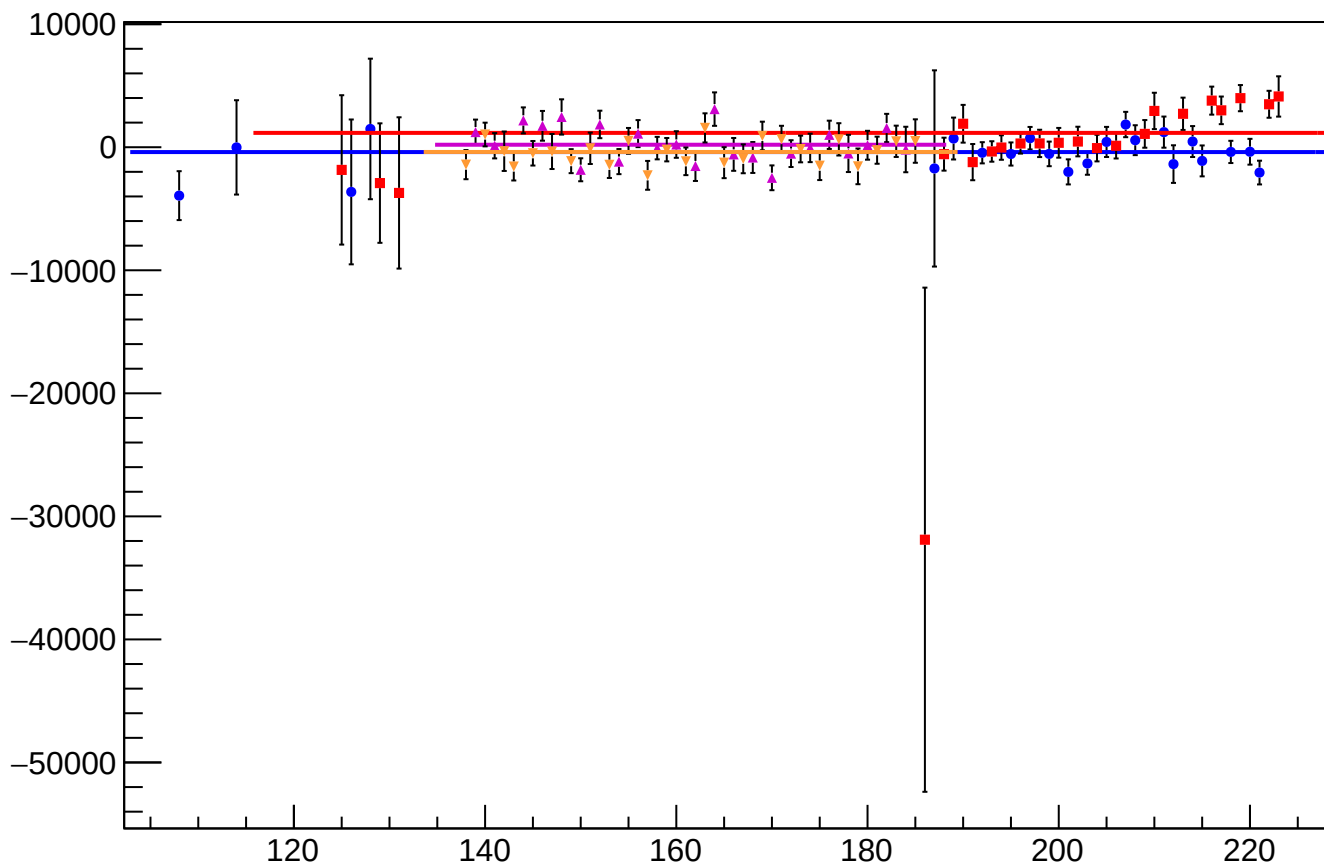
Right: 120.970 $\pm$ 0.014 χ^2 /NDF: 4351715.7/73

In: 136.228 $\pm$ 0.016 χ^2 /NDF: 3200624.0/57

Out: 132.707 $\pm$ 0.015 χ^2 /NDF: 4665794.1/63

All: 134.398 $\pm$ 0.011 χ^2 /NDF: 7891256.8/121

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -393.321 ± 254.931 χ^2/NDF : 20.8/21

Left Out: -385.018 ± 231.833 χ^2/NDF : 18.1/24

Right Out: 1165.837 ± 258.529 χ^2/NDF : 43.9/22

Left In: 202.234 ± 237.460 χ^2/NDF : 35.5/22

Left: -98.432 ± 165.884 χ^2/NDF : 56.7/47

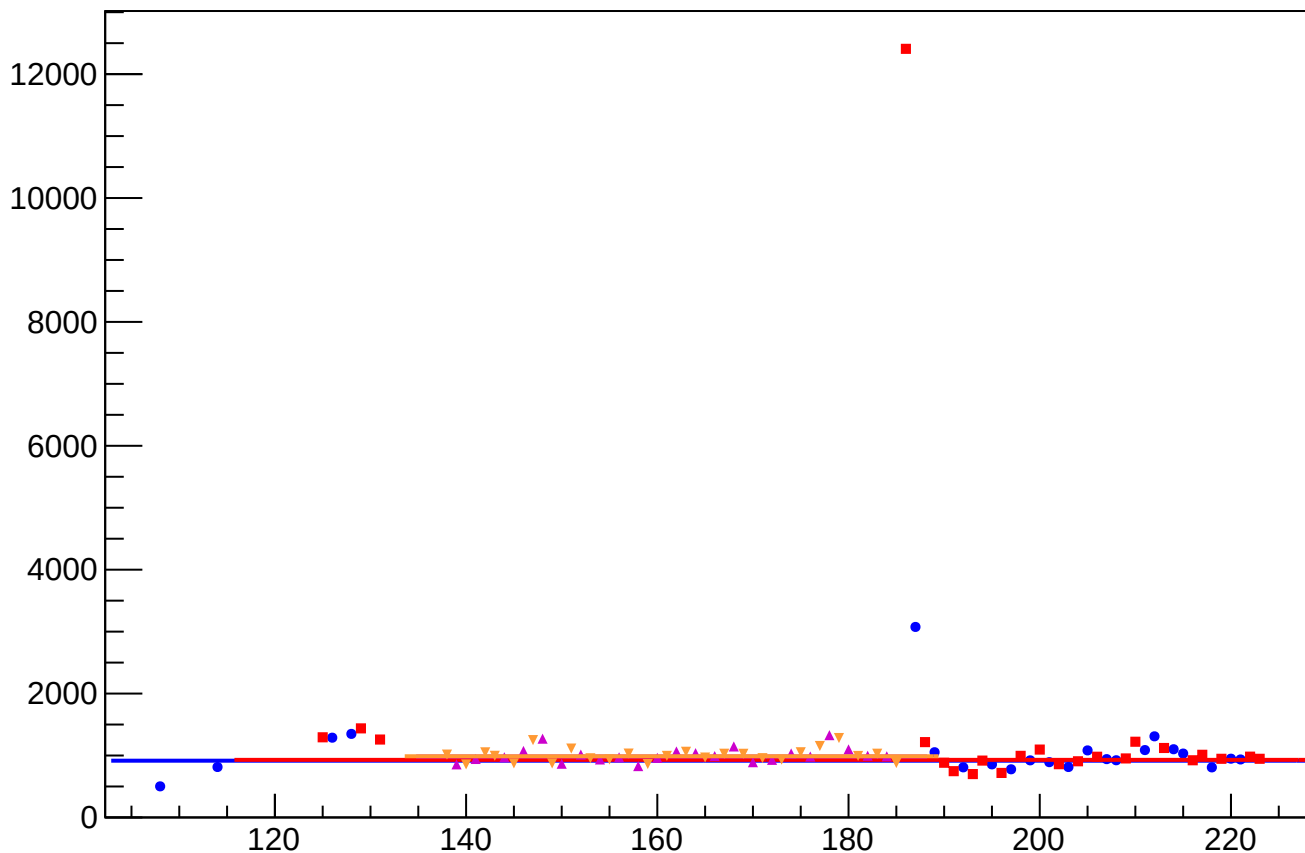
Right: 375.333 ± 181.522 χ^2/NDF : 83.1/44

In: -74.439 ± 173.758 χ^2/NDF : 59.2/44

Out: 306.230 ± 172.600 χ^2/NDF : 81.9/47

All: 117.168 ± 122.454 χ^2/NDF : 143.5/92

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 916.375+/-0.180 χ^2/NDF : 677394.1/21

Left Out: 987.869+/-0.164 χ^2/NDF : 376958.5/24

Right Out: 929.699+/-0.183 χ^2/NDF : 1267574.3/22

Left In: 983.893+/-0.168 χ^2/NDF : 416265.7/22

Left: 985.929+/-0.117 χ^2/NDF : 793511.2/47

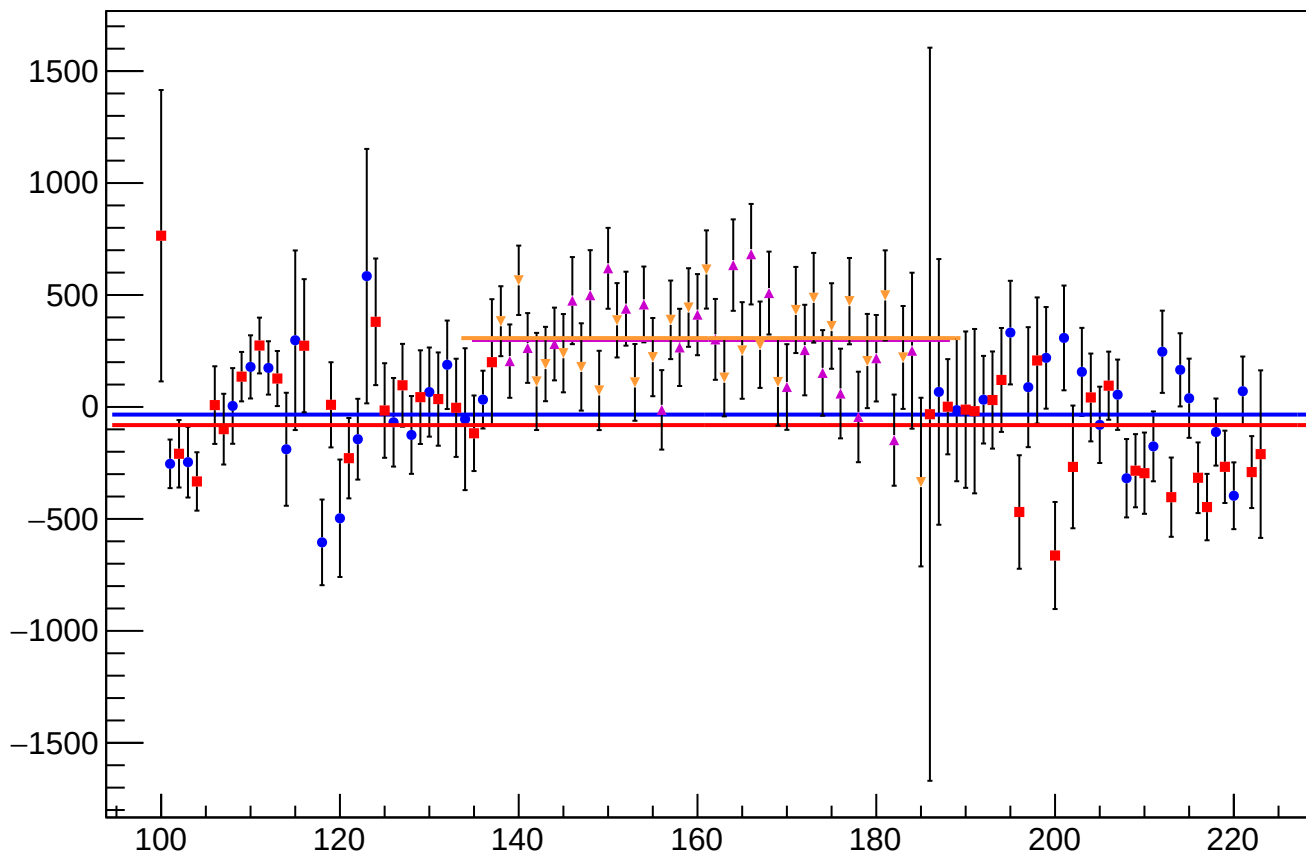
Right: 922.944+/-0.128 χ^2/NDF : 1947662.0/44

In: 952.527+/-0.123 χ^2/NDF : 1168777.1/44

Out: 961.941+/-0.122 χ^2/NDF : 1700655.0/47

All: 957.265+/-0.087 χ^2/NDF : 2872387.6/92

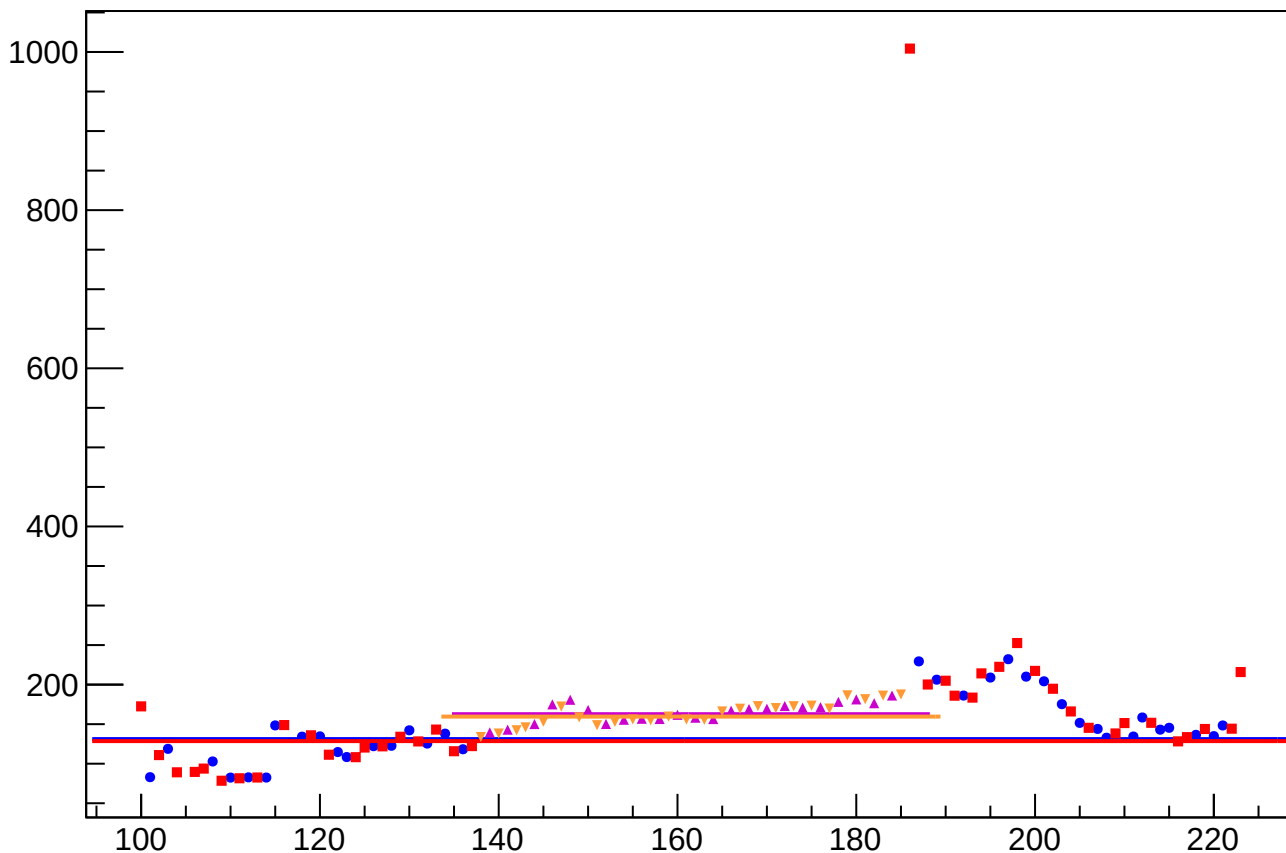
reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -34.072 ± 30.540 $\chi^2/\text{NDF}: 49.7/34$
 Left Out: 307.487 ± 37.278 $\chi^2/\text{NDF}: 20.7/24$
 Right Out: -81.013 ± 29.939 $\chi^2/\text{NDF}: 59.6/38$
 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: -58.009 ± 21.380 $\chi^2/\text{NDF}: 110.5/73$
 In: 92.573 ± 24.047 $\chi^2/\text{NDF}: 123.5/57$
 Out: 71.321 ± 23.343 $\chi^2/\text{NDF}: 146.3/63$
 All: 81.631 ± 16.749 $\chi^2/\text{NDF}: 270.2/121$

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 131.109 $\pm$ 0.022 χ^2 /NDF: 2680697.3/34

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF: 287744.2/24

Right Out: 128.570 $\pm$ 0.021 χ^2 /NDF: 4182369.1/38

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

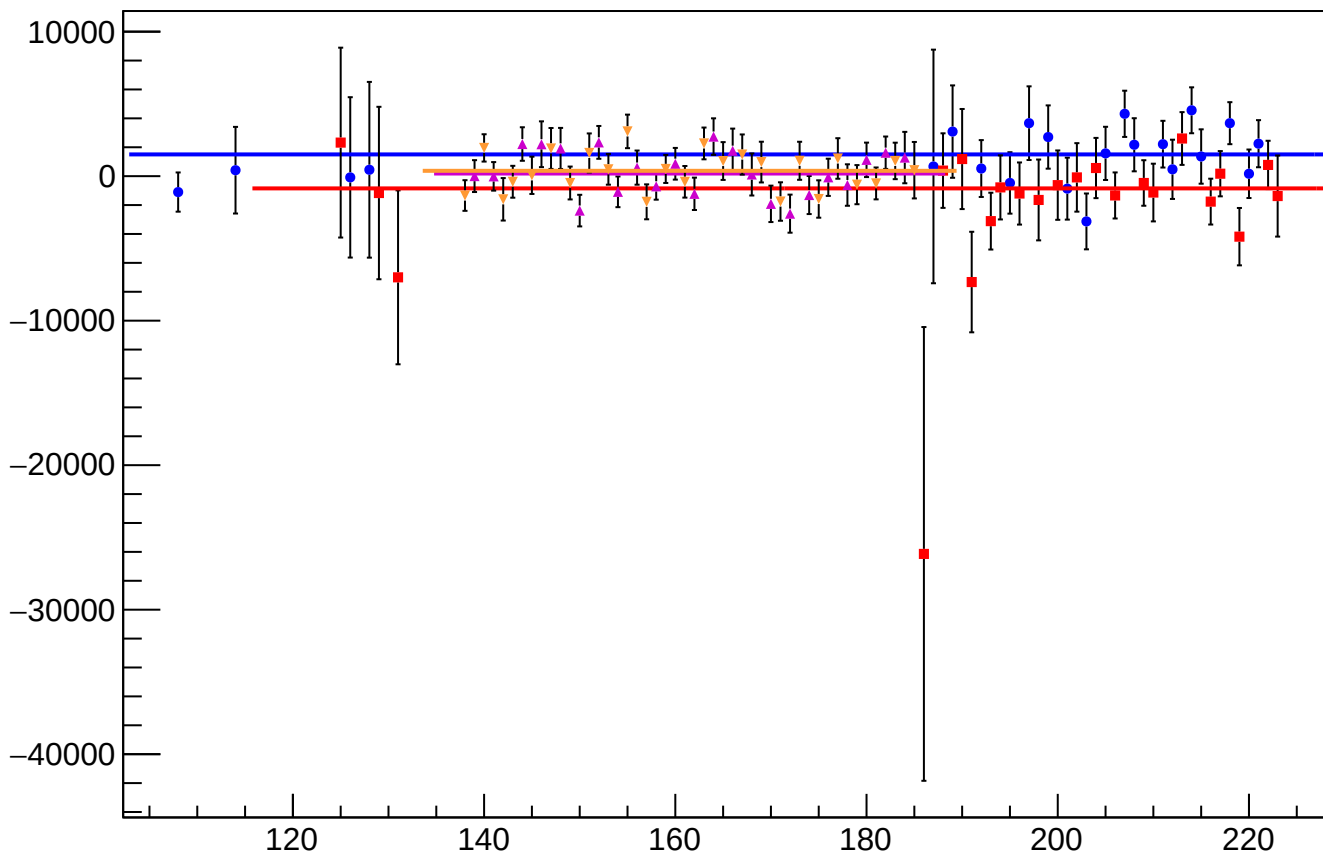
Right: 129.814 $\pm$ 0.015 χ^2 /NDF: 6870115.9/73

In: 143.078 $\pm$ 0.017 χ^2 /NDF: 3688662.5/57

Out: 140.725 $\pm$ 0.017 χ^2 /NDF: 5310828.4/63

All: 141.866 $\pm$ 0.012 χ^2 /NDF: 9009356.7/123

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 1504.915 $\pm$ 421.007 χ^2 /NDF: 23.7/21

Left Out: 370.001 $\pm$ 243.521 χ^2 /NDF:30.5/24

Right Out: -846.774 $\pm$ 462.274 χ^2 /NDF: 18.2/22

Left In: 183.107 $\pm$ 252.258 χ^2 /NDF:36.5/22

Left: 279.847 $\pm$ 175.203 χ^2 /NDF: 67.2/47

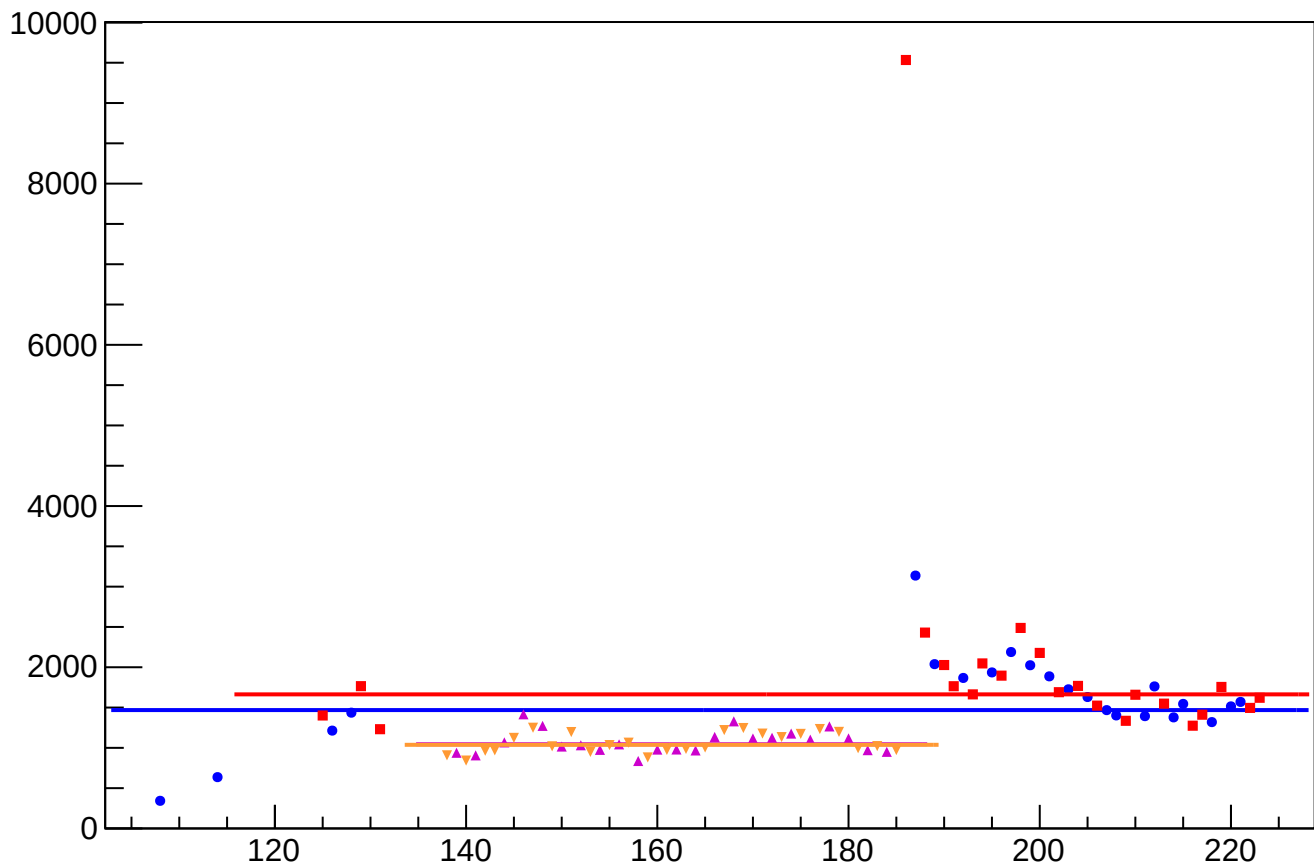
Right: 438.704 $\pm$ 311.266 χ^2 /NDF: 56.1/44

In: 532.293 $\pm$ 216.388 χ^2 /NDF:67.4/44

Out: 105.687 $\pm$ 215.454 χ^2 /NDF:54.1/47

All: 318.067 $\pm$ 152.678 χ^2 /NDF: 123.5/92

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1468.635+/-0.298 χ^2/NDF : 2366943.4/21

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1663.591+/-0.327 χ^2/NDF : 1378191.3/22

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

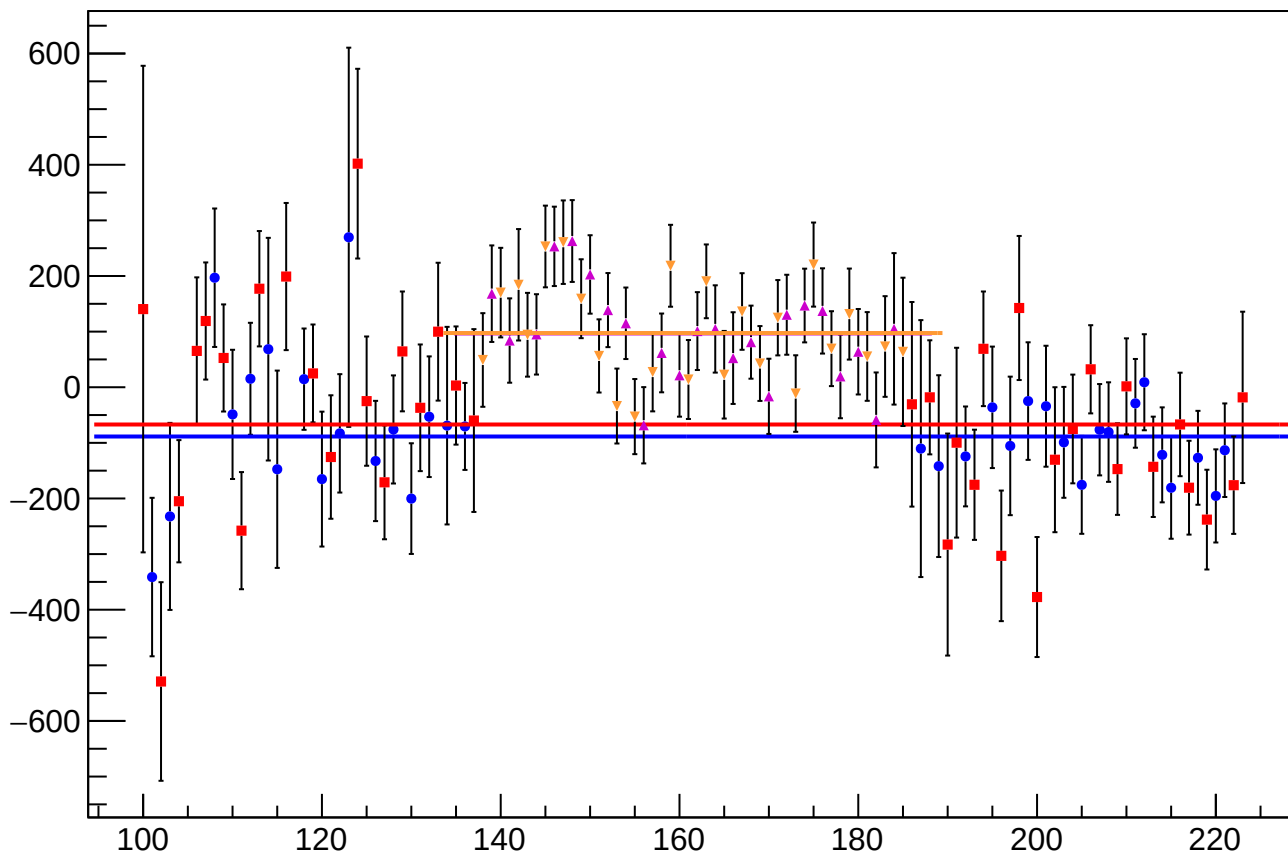
Right: 1557.024+/-0.220 χ^2/NDF : 3939575.4/44

In: 1156.726+/-0.153 χ^2/NDF : 4402134.3/44

Out: 1173.650+/-0.152 χ^2/NDF : 4743157.1/47

All: 1165.225+/-0.108 χ^2/NDF : 9151435.3/92

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -88.586 ± 17.639 χ^2/NDF : 22.5/34

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -66.997 ± 17.510 χ^2/NDF : 71.5/38

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

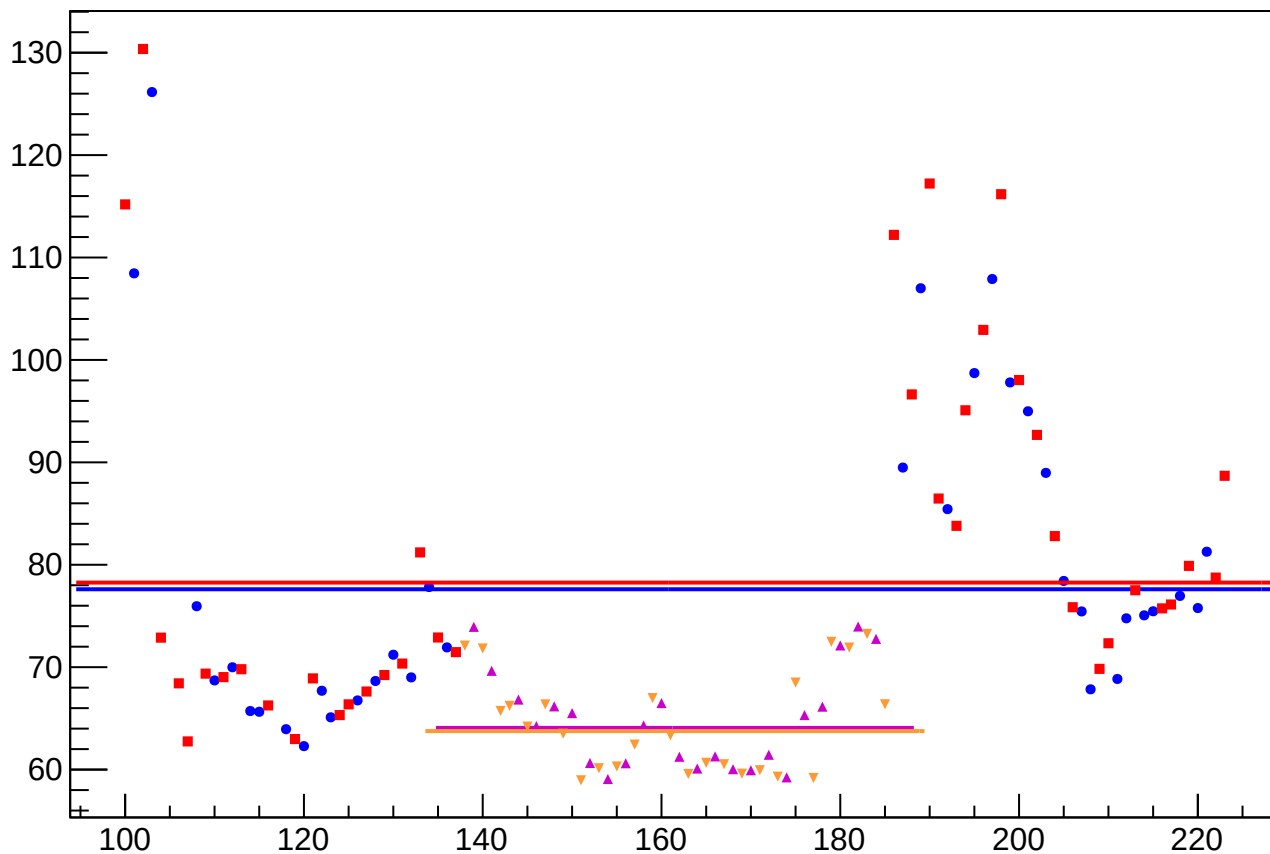
Right: -77.712 ± 12.427 χ^2/NDF : 94.7/73

In: 16.740 ± 11.588 χ^2/NDF : 114.5/57

Out: 28.491 ± 11.339 χ^2/NDF : 158.7/63

All: 22.743 ± 8.104 χ^2/NDF : 273.7/121

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.608 $\pm$ 0.012 χ^2 /NDF: 953420.8/34

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 78.259 $\pm$ 0.012 χ^2 /NDF: 1141407.4/38

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

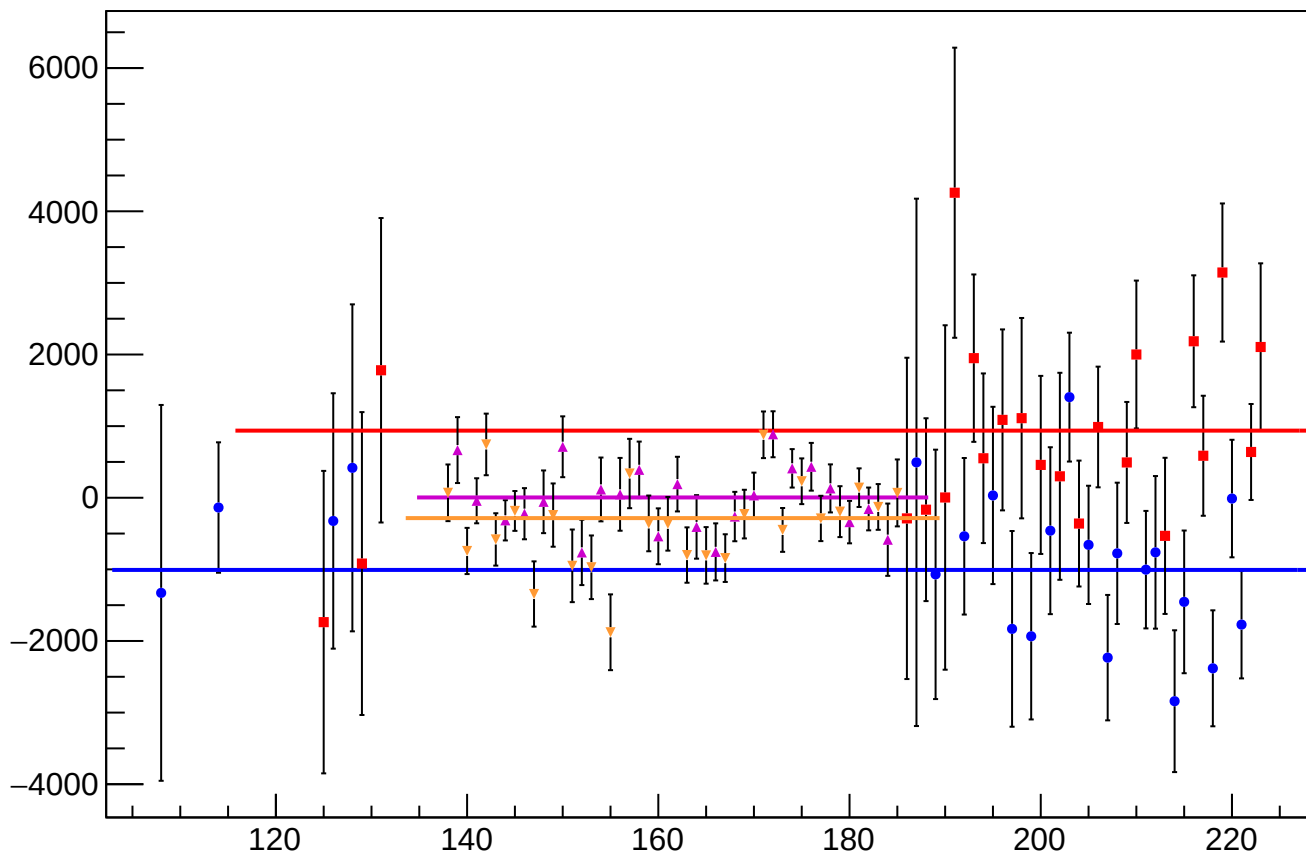
Right: 77.936 $\pm$ 0.009 χ^2 /NDF: 2096201.0/73

In: 69.912 $\pm$ 0.008 χ^2 /NDF: 1787931.5/57

Out: 69.841 $\pm$ 0.008 χ^2 /NDF: 2130406.7/63

All: 69.875 $\pm$ 0.006 χ^2 /NDF: 3918376.7/121

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -1007.866 ± 223.747 $\chi^2/\text{NDF}: 22.2/21$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 937.261 ± 234.863 $\chi^2/\text{NDF}: 21.4/22$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

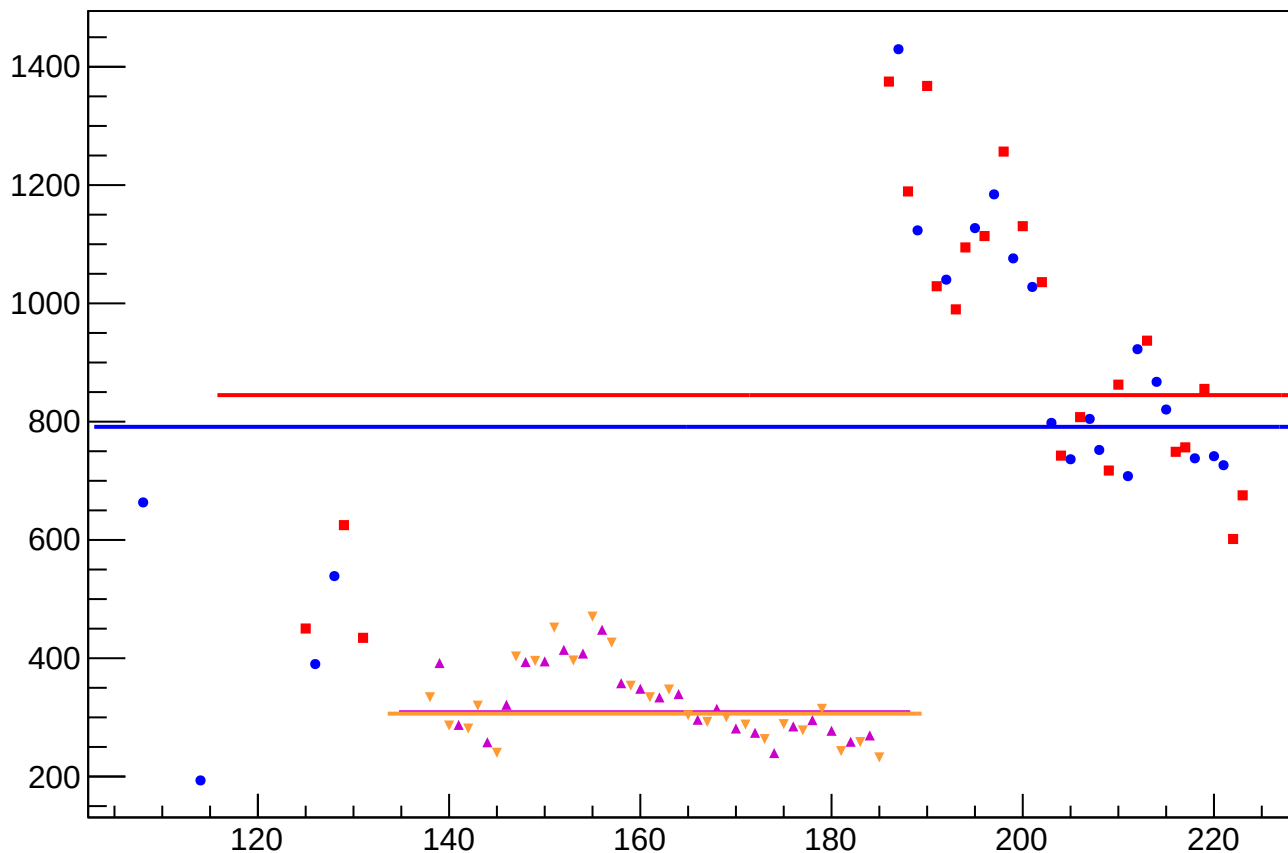
Right: -82.423 ± 162.000 $\chi^2/\text{NDF}: 79.6/44$

In: -98.382 ± 71.183 $\chi^2/\text{NDF}: 72.9/44$

Out: -177.405 ± 69.477 $\chi^2/\text{NDF}: 101.2/47$

All: -138.852 ± 49.720 $\chi^2/\text{NDF}: 174.7/92$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 791.247 $\pm$ 0.158 χ^2 /NDF: 1852600.7/21

Left Out: 306.363 $\pm$ 0.051 χ^2 /NDF: 1215669.9/24

Right Out: 844.877 $\pm$ 0.166 χ^2 /NDF: 1499536.4/22

Left In: 308.727 $\pm$ 0.053 χ^2 /NDF: 1002947.4/22

Left: 307.507 $\pm$ 0.037 χ^2 /NDF: 2219640.0/47

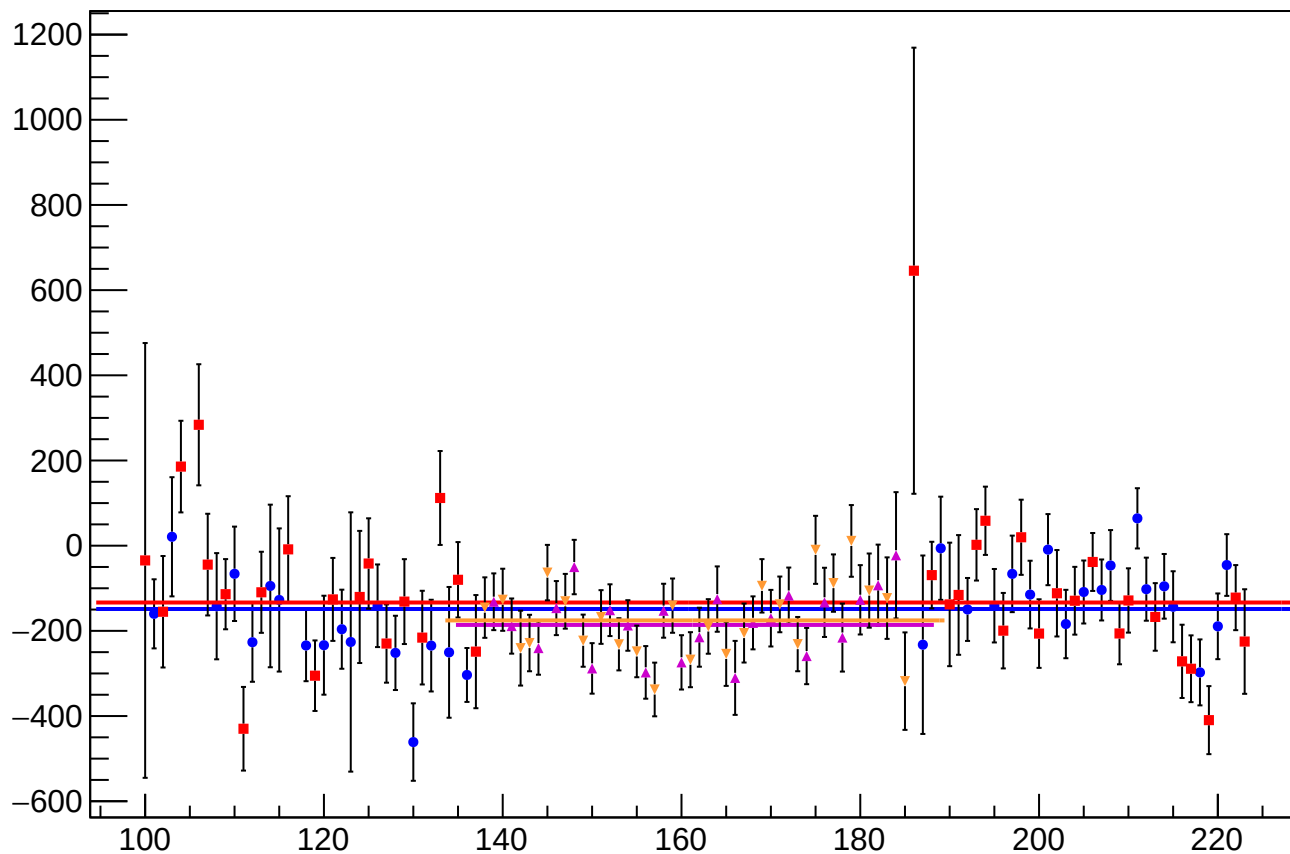
Right: 816.763 $\pm$ 0.115 χ^2 /NDF: 3406805.7/44

In: 357.564 $\pm$ 0.050 χ^2 /NDF: 11215470.2/44

Out: 353.488 $\pm$ 0.049 χ^2 /NDF: 12309704.8/47

All: 355.477 $\pm$ 0.035 χ^2 /NDF: 23528534.0/92

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -148.638 ± 15.172 $\chi^2/\text{NDF}: 48.7/34$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -133.450 ± 15.240 $\chi^2/\text{NDF}: 78.9/38$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

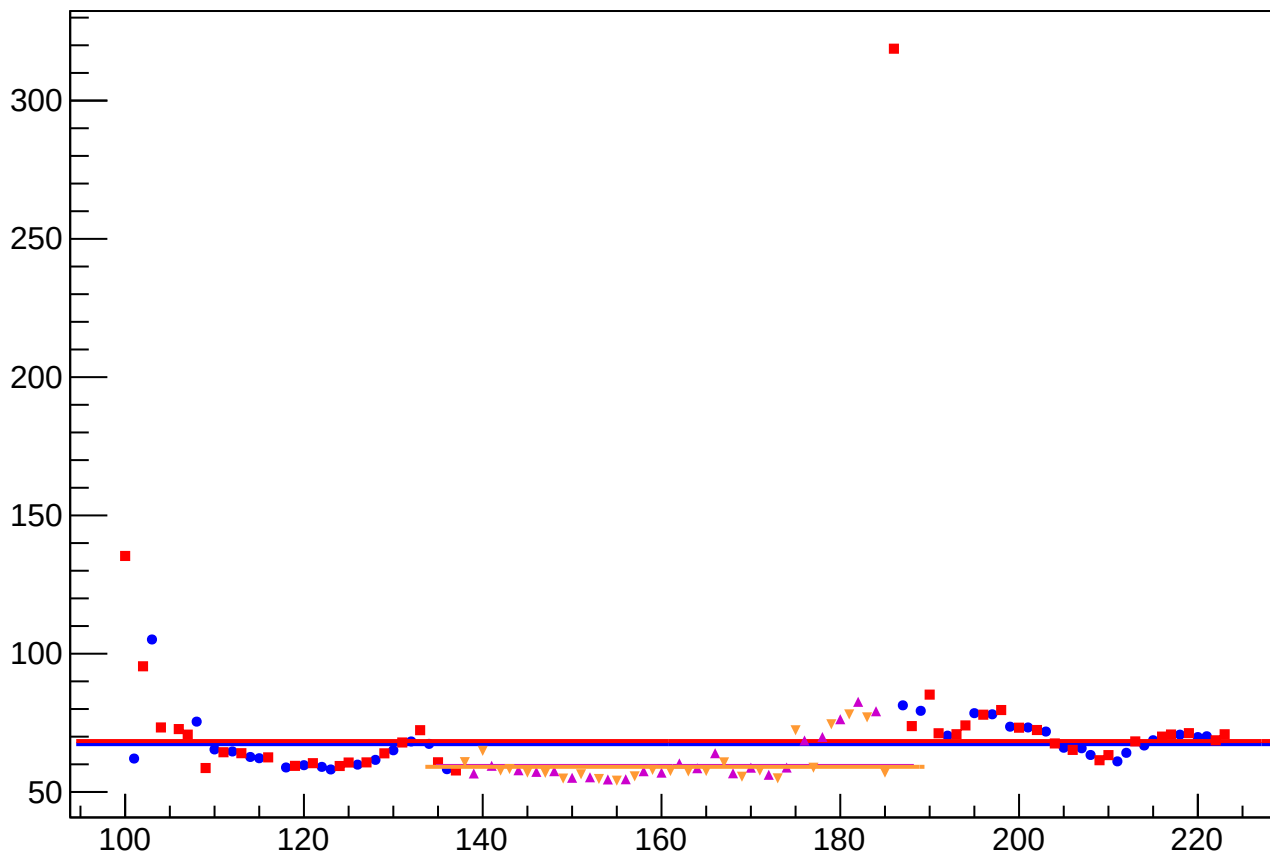
Right: -141.078 ± 10.752 $\chi^2/\text{NDF}: 128.2/73$

In: -168.428 ± 10.412 $\chi^2/\text{NDF}: 75.5/57$

Out: -156.471 ± 10.248 $\chi^2/\text{NDF}: 117.8/63$

All: -162.355 ± 7.304 $\chi^2/\text{NDF}: 193.9/121$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.290 $\pm$ 0.011 χ^2 /NDF: 436308.0/34

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.412 $\pm$ 0.011 χ^2 /NDF: 879184.8/38

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

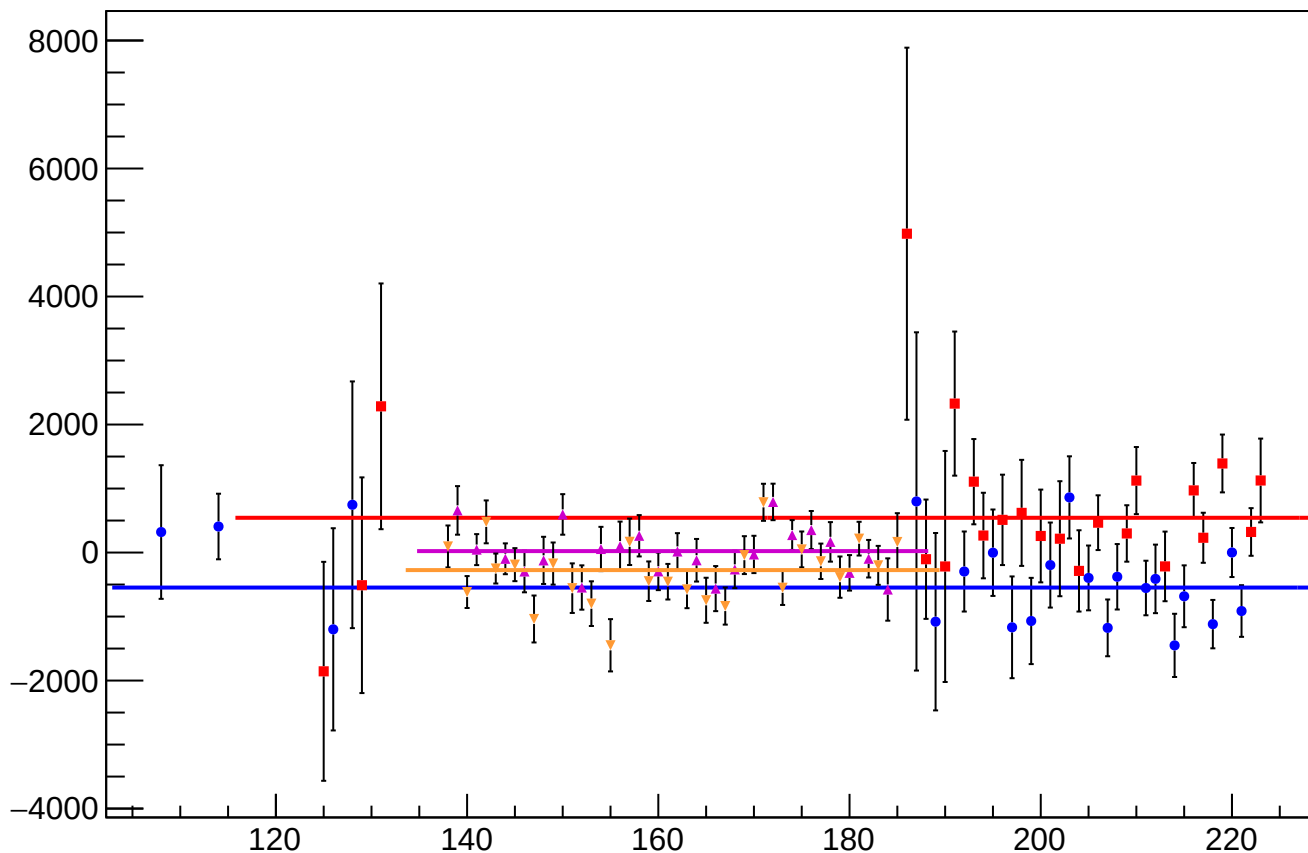
Right: 67.848 $\pm$ 0.008 χ^2 /NDF: 1320931.7/73

In: 63.122 $\pm$ 0.007 χ^2 /NDF: 1094760.5/57

Out: 63.310 $\pm$ 0.007 χ^2 /NDF: 1658043.5/63

All: 63.217 $\pm$ 0.005 χ^2 /NDF: 2753136.5/121

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -546.933 ± 120.014 χ^2/NDF : 23.2/21

Left Out: -274.091 ± 60.799 χ^2/NDF : 53.9/24

Right Out: 543.191 ± 128.068 χ^2/NDF : 21.4/22

Left In: 22.631 ± 63.643 χ^2/NDF : 28.9/22

Left: -132.507 ± 43.963 χ^2/NDF : 94.2/47

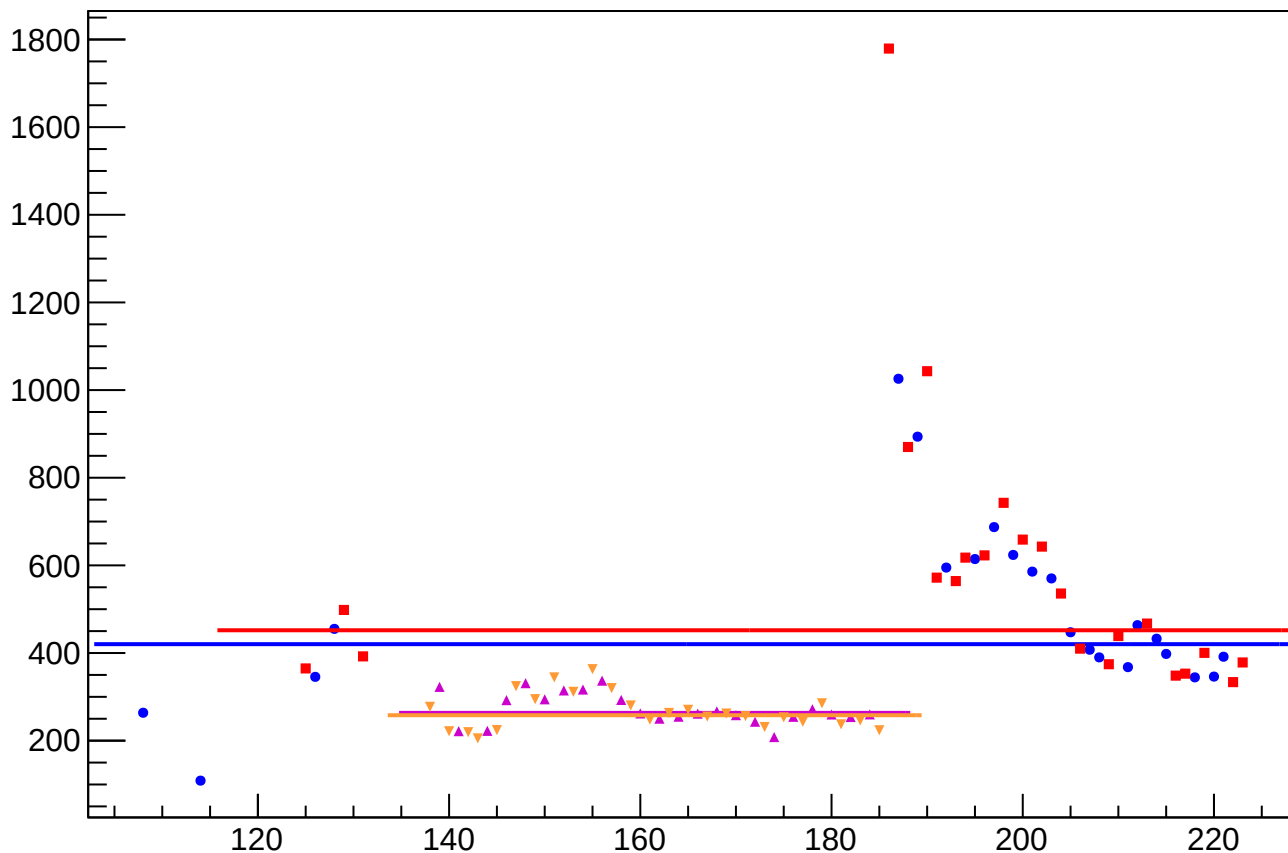
Right: -37.225 ± 87.572 χ^2/NDF : 83.1/44

In: -102.383 ± 56.226 χ^2/NDF : 69.6/44

Out: -123.771 ± 54.924 χ^2/NDF : 108.5/47

All: -113.328 ± 39.290 χ^2/NDF : 178.3/92

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 420.218 ± 0.085 χ^2/NDF : 2319516.7/21

Left Out: 258.040 ± 0.043 χ^2/NDF : 724823.3/24

Right Out: 451.927 ± 0.091 χ^2/NDF : 2479505.5/22

Left In: 263.397 ± 0.045 χ^2/NDF : 585600.2/22

Left: 260.596 ± 0.031 χ^2/NDF : 1317830.8/47

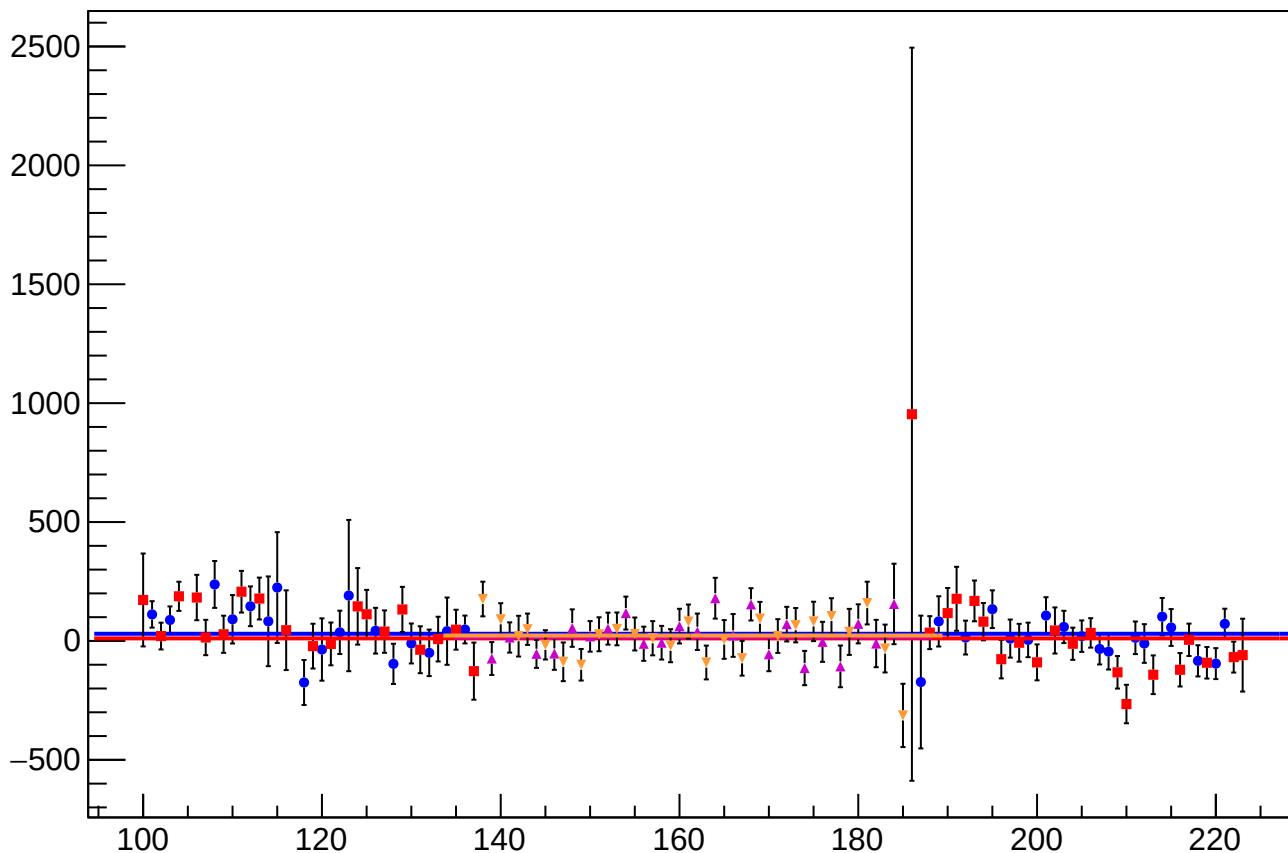
Right: 435.044 ± 0.062 χ^2/NDF : 4864304.1/44

In: 297.817 ± 0.040 χ^2/NDF : 5570455.8/44

Out: 293.701 ± 0.039 χ^2/NDF : 6945220.0/47

All: 295.711 ± 0.028 χ^2/NDF : 12521161.1/92

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 30.176+/-13.621 χ^2/NDF : 33.4/34

Left Out: 22.871+/-14.968 χ^2/NDF :29.0/24

Right Out: 10.756+/-13.413 χ^2/NDF : 64.1/38

Left In: 16.198+/-15.531 χ^2/NDF :23.3/22

Left: 19.658+/-10.777 χ^2/NDF : 52.4/47

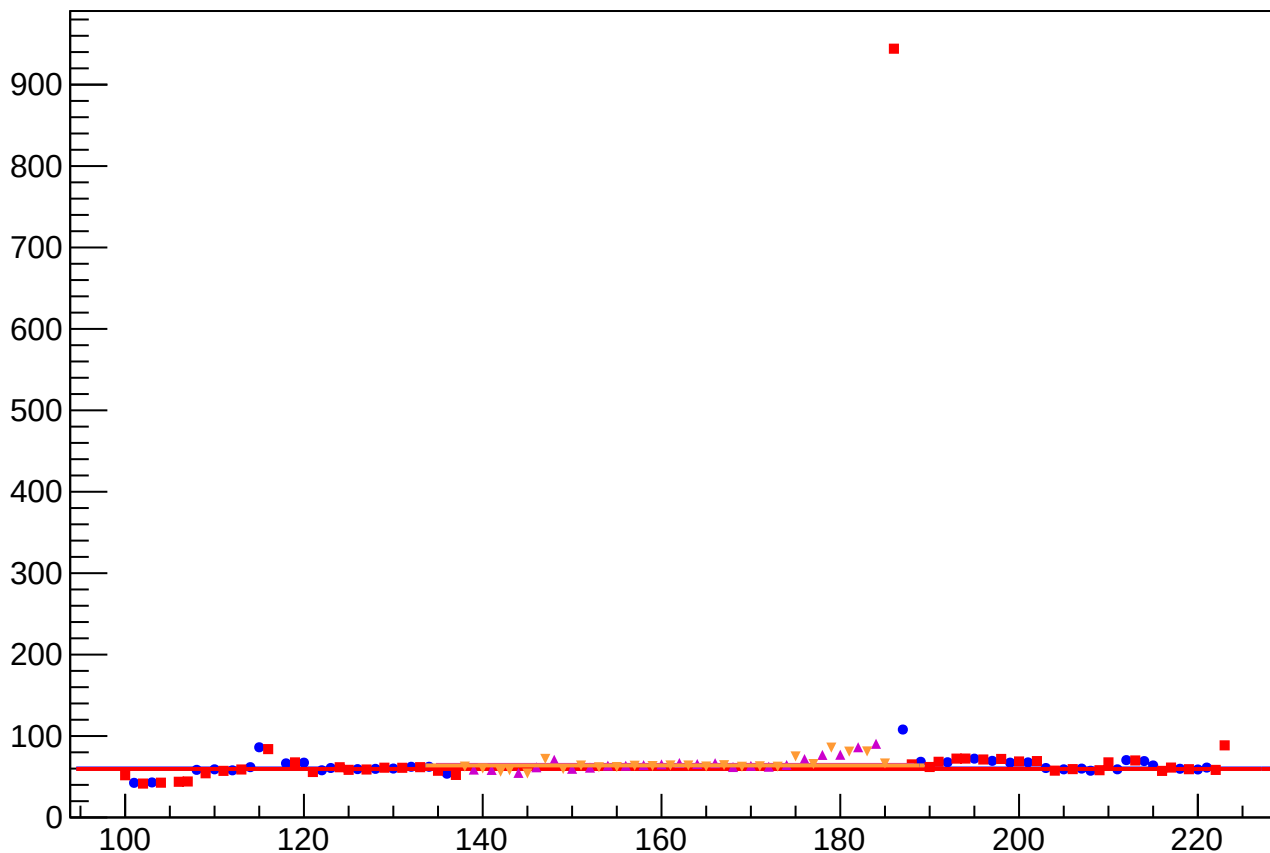
Right: 20.317+/-9.557 χ^2/NDF : 98.5/73

In: 24.099+/-10.240 χ^2/NDF :57.2/57

Out: 16.151+/-9.989 χ^2/NDF :93.5/63

All: 20.026+/-7.150 χ^2/NDF : 150.9/121

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 60.088 $\pm$ 0.010 χ^2 /NDF: 724124.9/34

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.562 $\pm$ 0.009 χ^2 /NDF: 1629067.7/38

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

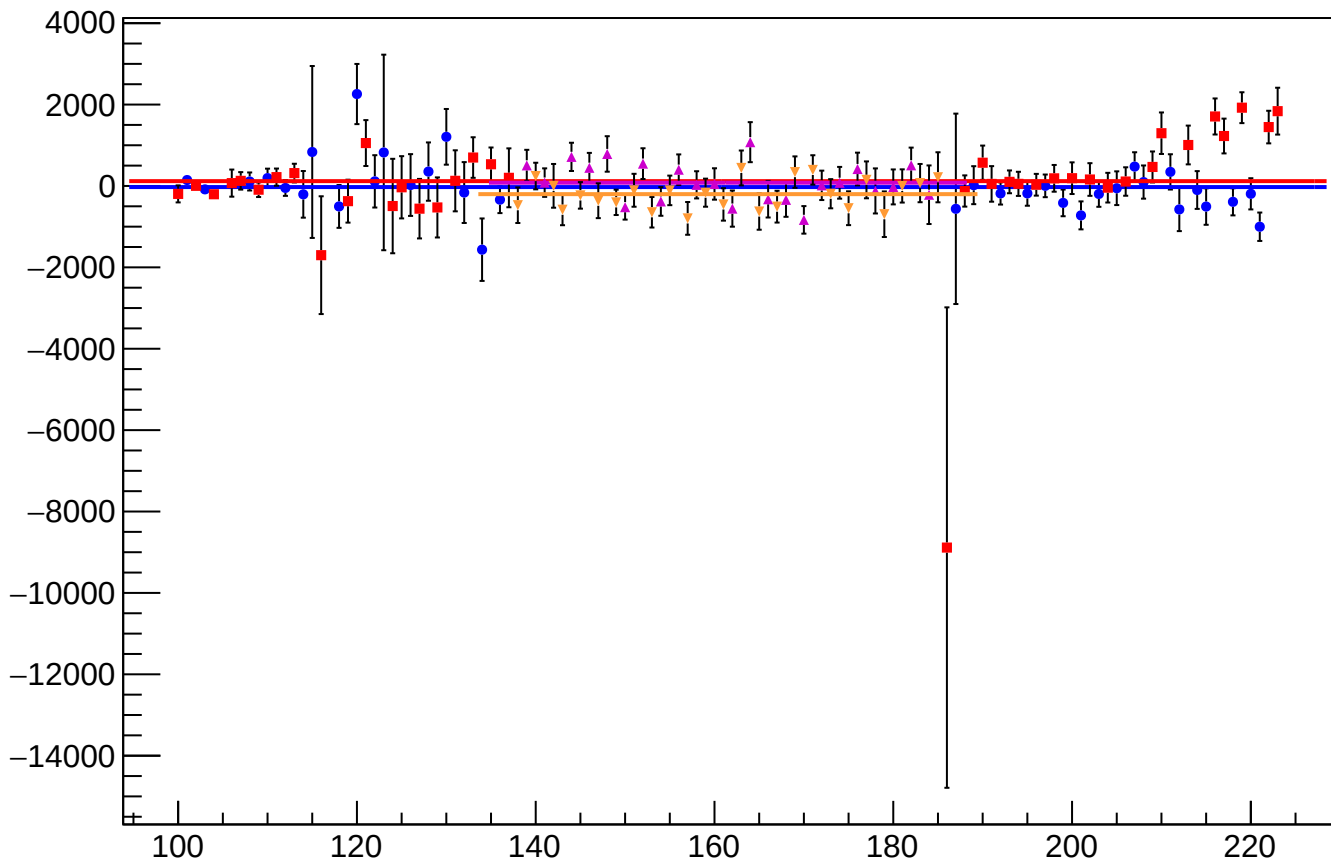
Right: 59.821 $\pm$ 0.007 χ^2 /NDF: 2354709.0/73

In: 62.011 $\pm$ 0.007 χ^2 /NDF: 1186301.9/57

Out: 61.503 $\pm$ 0.007 χ^2 /NDF: 2118504.4/63

All: 61.751 $\pm$ 0.005 χ^2 /NDF: 3307329.9/121

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -27.229 ± 44.359 $\chi^2/\text{NDF}: 46.2/34$

Left Out: -201.082 ± 79.549 $\chi^2/\text{NDF}: 19.7/24$

Right Out: 118.322 ± 45.281 $\chi^2/\text{NDF}: 101.9/38$

Left In: 79.985 ± 81.781 $\chi^2/\text{NDF}: 33.4/22$

Left: -64.438 ± 57.022 $\chi^2/\text{NDF}: 59.1/47$

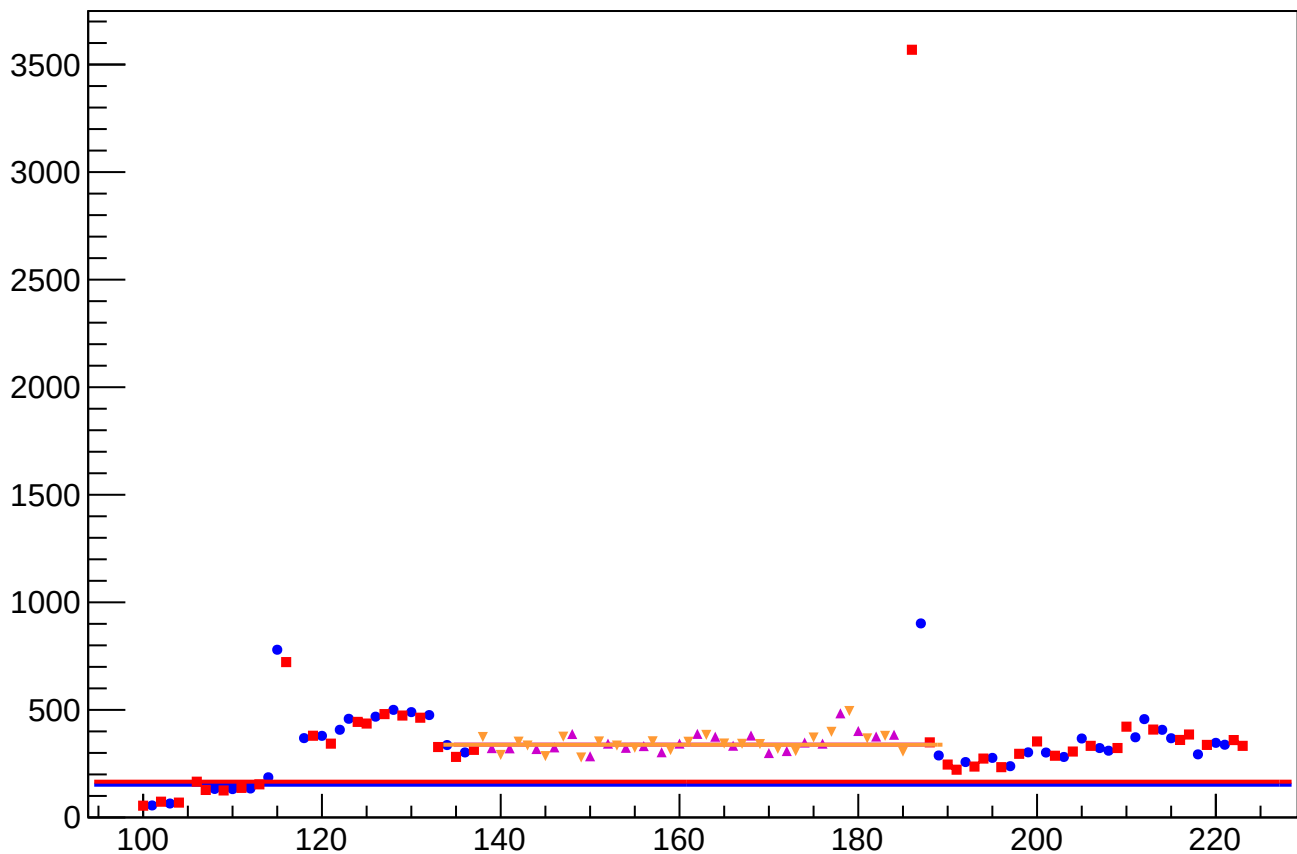
Right: 44.049 ± 31.688 $\chi^2/\text{NDF}: 153.3/73$

In: -2.857 ± 38.992 $\chi^2/\text{NDF}: 80.9/57$

Out: 40.156 ± 39.352 $\chi^2/\text{NDF}: 133.7/63$

All: 18.452 ± 27.698 $\chi^2/\text{NDF}: 215.2/121$

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 152.190+/-0.031 χ^2/NDF : 15424192.2/34

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 166.343+/-0.032 χ^2/NDF : 13801871.2/38

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

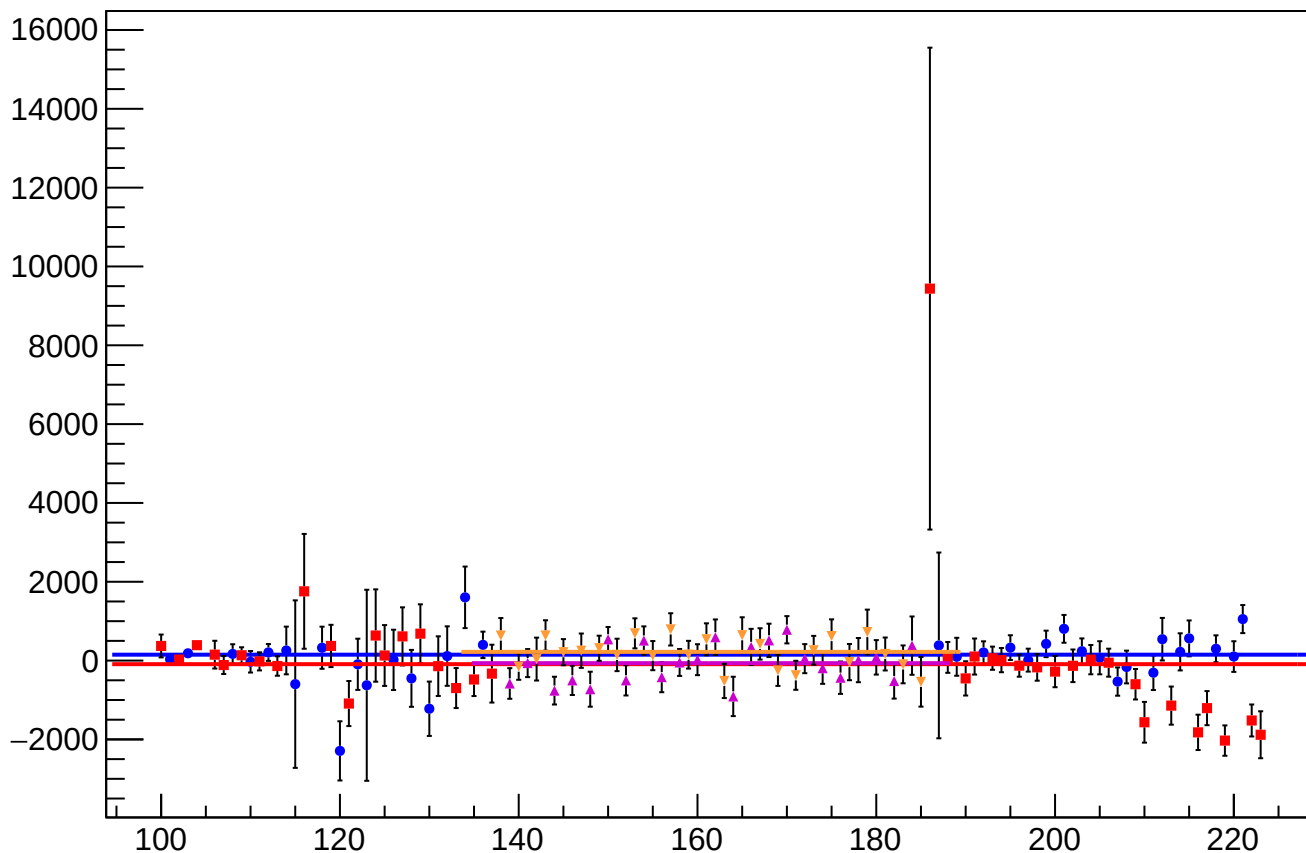
Right: 159.121+/-0.022 χ^2/NDF : 29325771.0/73

In: 194.558+/-0.028 χ^2/NDF : 23887280.0/57

Out: 208.384+/-0.028 χ^2/NDF : 21344920.6/63

All: 201.407+/-0.020 χ^2/NDF : 45356773.0/12

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 149.809 $\pm$ 51.568 χ^2 /NDF: 39.6/34

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: -90.836 $\pm$ 50.118 χ^2 /NDF: 118.8/38

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

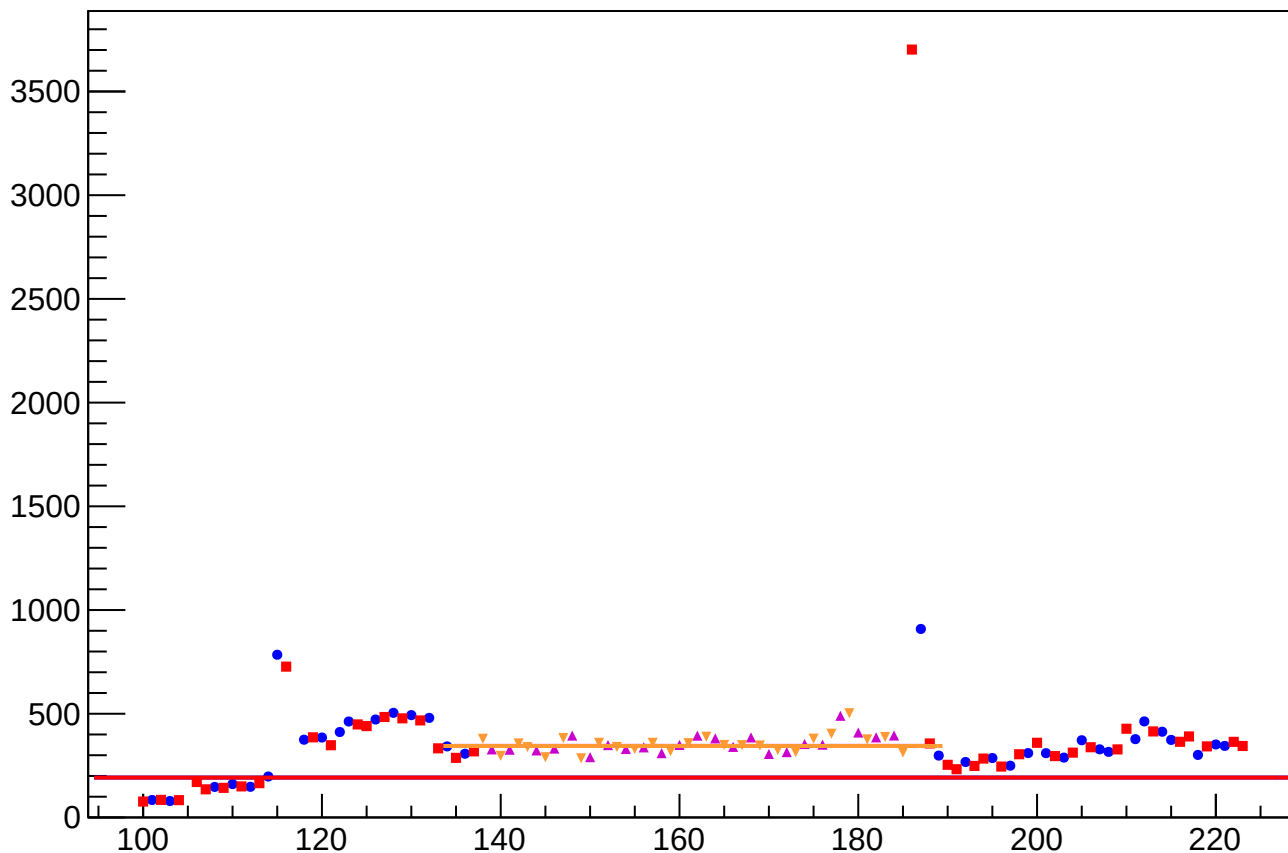
Right: 26.057 $\pm$ 35.940 χ^2 /NDF: 169.7/73

In: 90.173 $\pm$ 43.849 χ^2 /NDF:78.4/57

Out: -4.509 $\pm$ 42.622 χ^2 /NDF:149.3/63

All: 41.490 $\pm$ 30.563 χ^2 /NDF: 230.1/121

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 192.451+/-0.036 χ^2/NDF : 11428232.0/34

Left Out: 344.506+/-0.057 χ^2/NDF :488323.4/24

Right Out: 192.109+/-0.035 χ^2/NDF : 11457017.1/38

Left In: 345.039+/-0.059 χ^2/NDF :427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

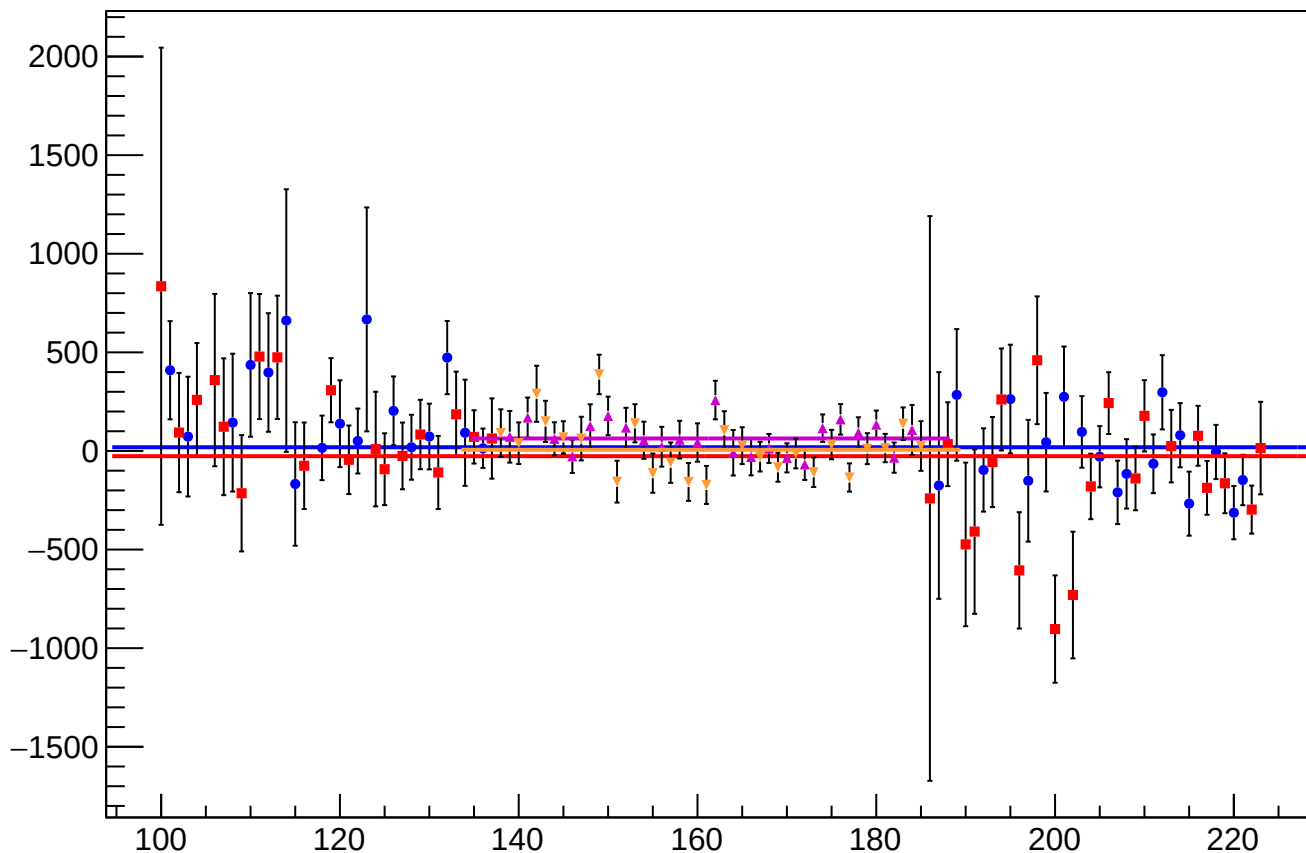
Right: 192.275+/-0.025 χ^2/NDF : 22885294.4/73

In: 234.713+/-0.031 χ^2/NDF :16705646.3/57

Out: 234.287+/-0.030 χ^2/NDF :17063277.6/63

All: 234.494+/-0.022 χ^2/NDF : 33769020.9/12

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 18.841 ± 32.215 $\chi^2/\text{NDF}: 35.3/34$

Left Out: 6.020 ± 17.910 $\chi^2/\text{NDF}: 46.0/24$

Right Out: -26.436 ± 33.085 $\chi^2/\text{NDF}: 52.8/38$

Left In: 63.279 ± 18.447 $\chi^2/\text{NDF}: 19.8/22$

Left: 33.804 ± 12.850 $\chi^2/\text{NDF}: 70.8/47$

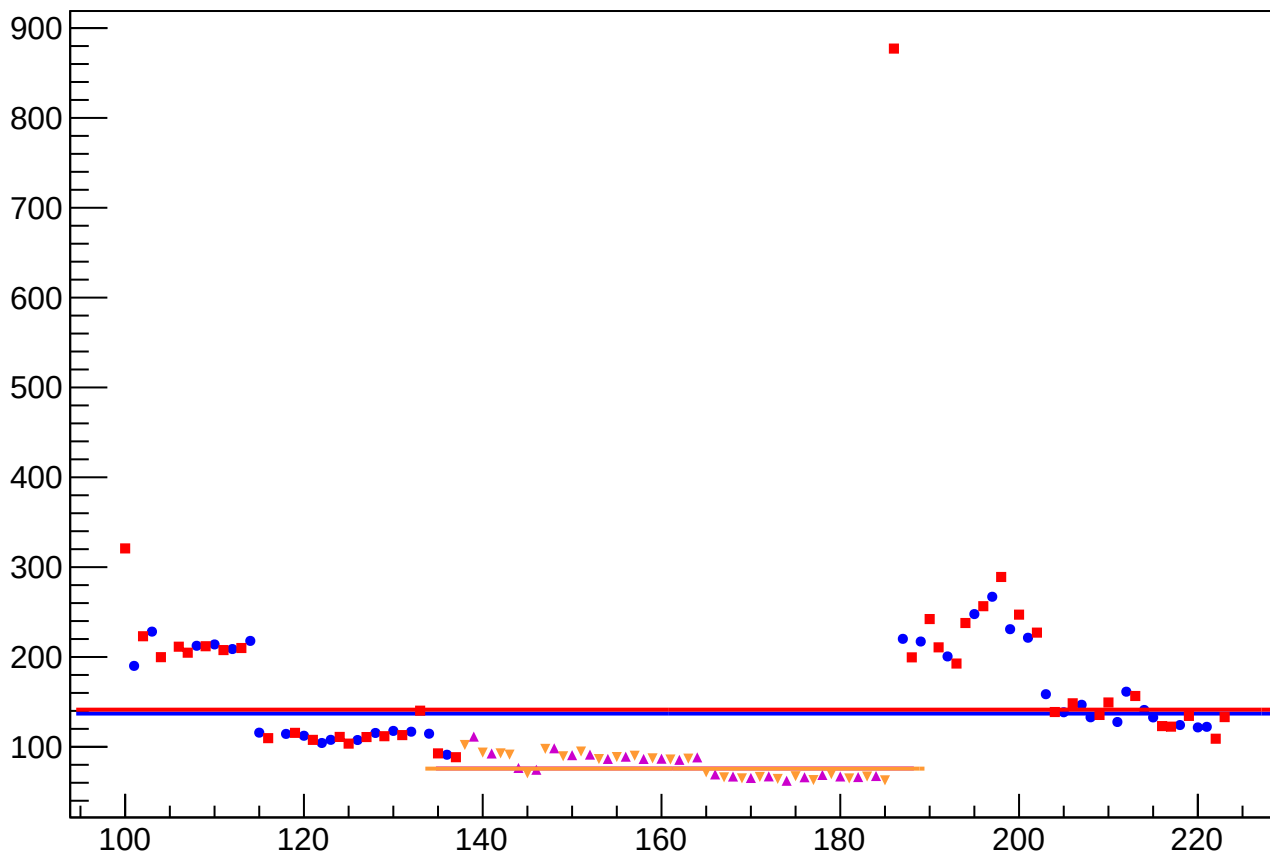
Right: -3.194 ± 23.081 $\chi^2/\text{NDF}: 89.1/73$

In: 52.307 ± 16.008 $\chi^2/\text{NDF}: 56.6/57$

Out: -1.336 ± 15.750 $\chi^2/\text{NDF}: 99.5/63$

All: 25.050 ± 11.227 $\chi^2/\text{NDF}: 161.8/121$

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 137.042 $\pm$ 0.023 χ^2 /NDF: 3000073.7/34

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 141.379 $\pm$ 0.023 χ^2 /NDF: 4162909.7/38

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

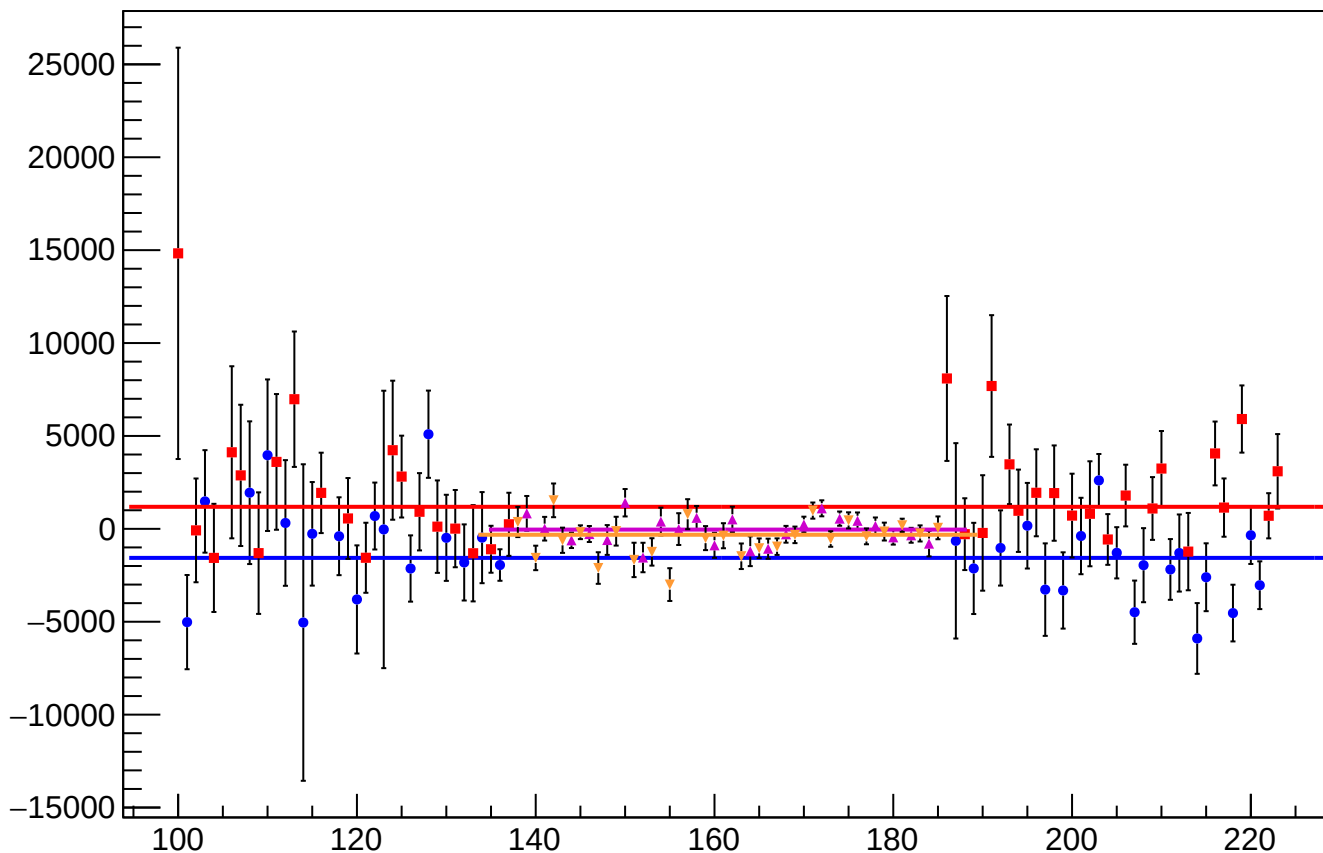
Right: 139.152 $\pm$ 0.016 χ^2 /NDF: 7180623.9/73

In: 91.004 $\pm$ 0.011 χ^2 /NDF:9255047.6/57

Out: 90.617 $\pm$ 0.011 χ^2 /NDF:11188112.5/63

All: 90.807 $\pm$ 0.008 χ^2 /NDF: 20443752.7/121

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1563.106 ± 327.649 $\chi^2/\text{NDF}: 43.0/34$

Left Out: -318.064 ± 108.014 $\chi^2/\text{NDF}: 50.0/24$

Right Out: 1186.043 ± 340.678 $\chi^2/\text{NDF}: 37.7/38$

Left In: -40.473 ± 110.252 $\chi^2/\text{NDF}: 34.7/22$

Left: -182.115 ± 77.156 $\chi^2/\text{NDF}: 88.0/47$

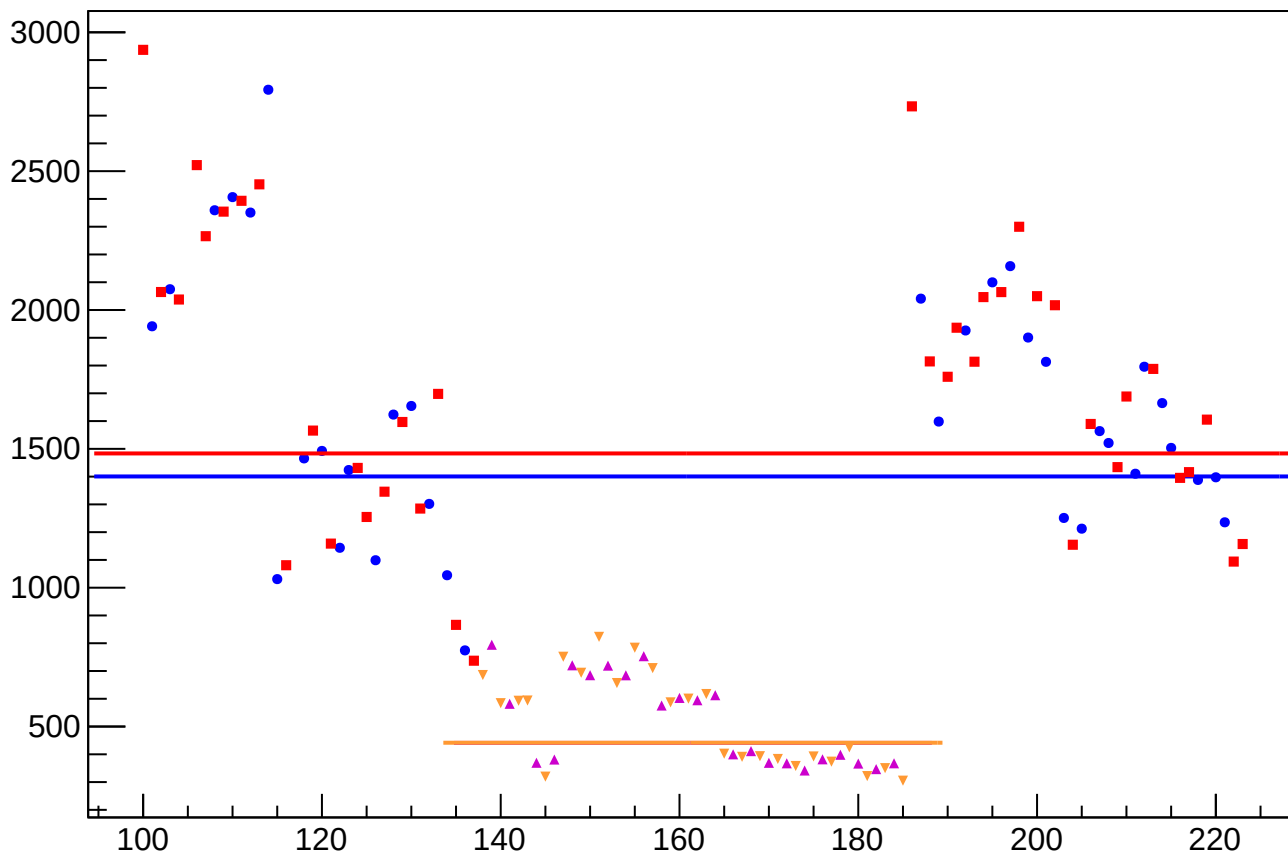
Right: -242.106 ± 236.154 $\chi^2/\text{NDF}: 114.5/73$

In: -195.344 ± 104.495 $\chi^2/\text{NDF}: 97.1/57$

Out: -180.676 ± 102.962 $\chi^2/\text{NDF}: 105.4/63$

All: -187.902 ± 73.341 $\chi^2/\text{NDF}: 202.6/121$

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1400.598 $\pm$ 0.232 χ^2 /NDF: 2966140.4/34

Left Out: 441.685 $\pm$ 0.076 χ^2 /NDF: 3169140.9/24

Right Out: 1483.487 $\pm$ 0.241 χ^2 /NDF: 3275582.5/38

Left In: 441.009 $\pm$ 0.078 χ^2 /NDF: 2597018.1/22

Left: 441.354 $\pm$ 0.055 χ^2 /NDF: 5766197.3/47

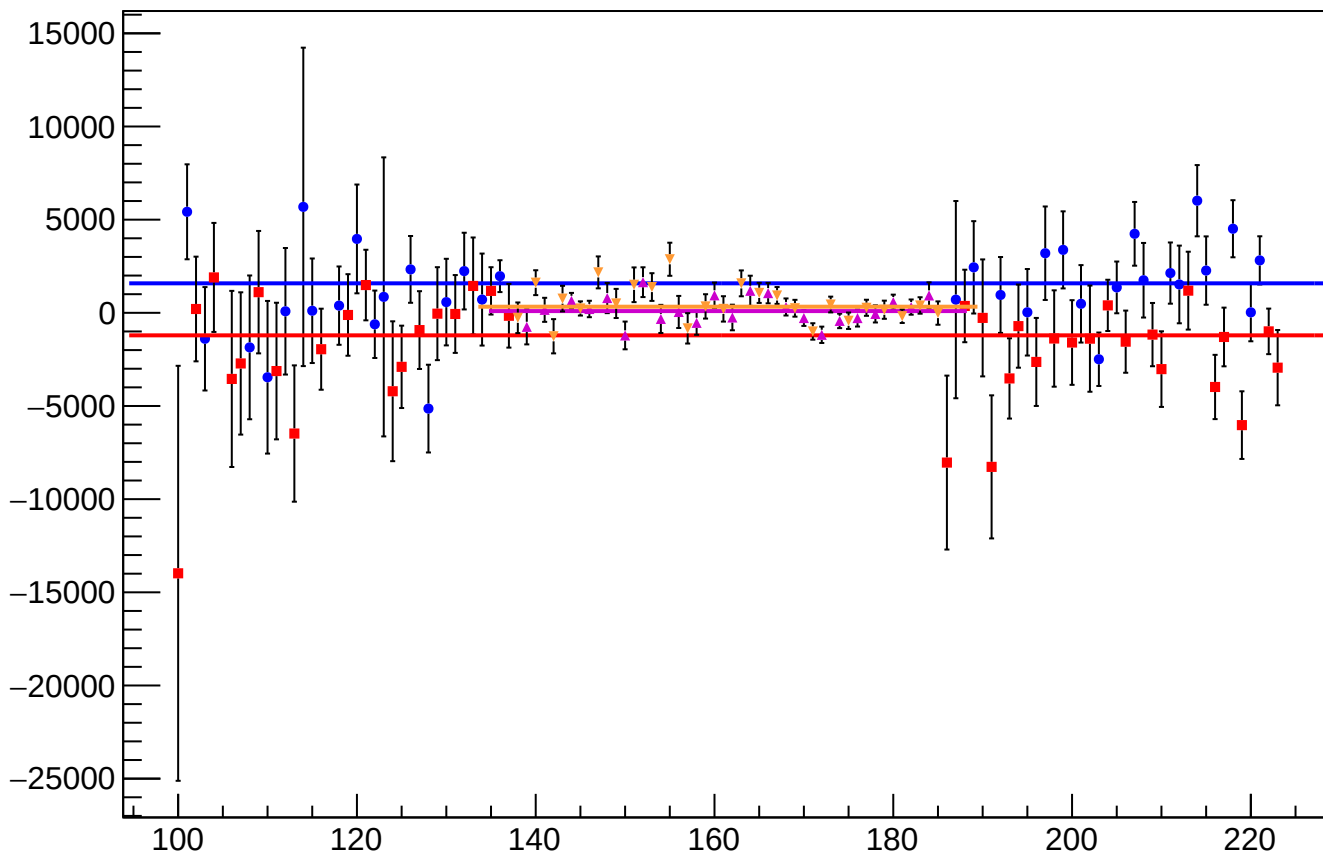
Right: 1440.427 $\pm$ 0.167 χ^2 /NDF: 6303228.9/73

In: 538.611 $\pm$ 0.074 χ^2 /NDF: 20973041.1/57

Out: 536.845 $\pm$ 0.073 χ^2 /NDF: 23439454.5/63

All: 537.715 $\pm$ 0.052 χ^2 /NDF: 44412785.4/12

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1583.103 $\pm$ 329.570 χ^2 /NDF: 41.7/34

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF:47.7/24

Right Out: -1208.642 $\pm$ 342.687 χ^2 /NDF: 36.8/38

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

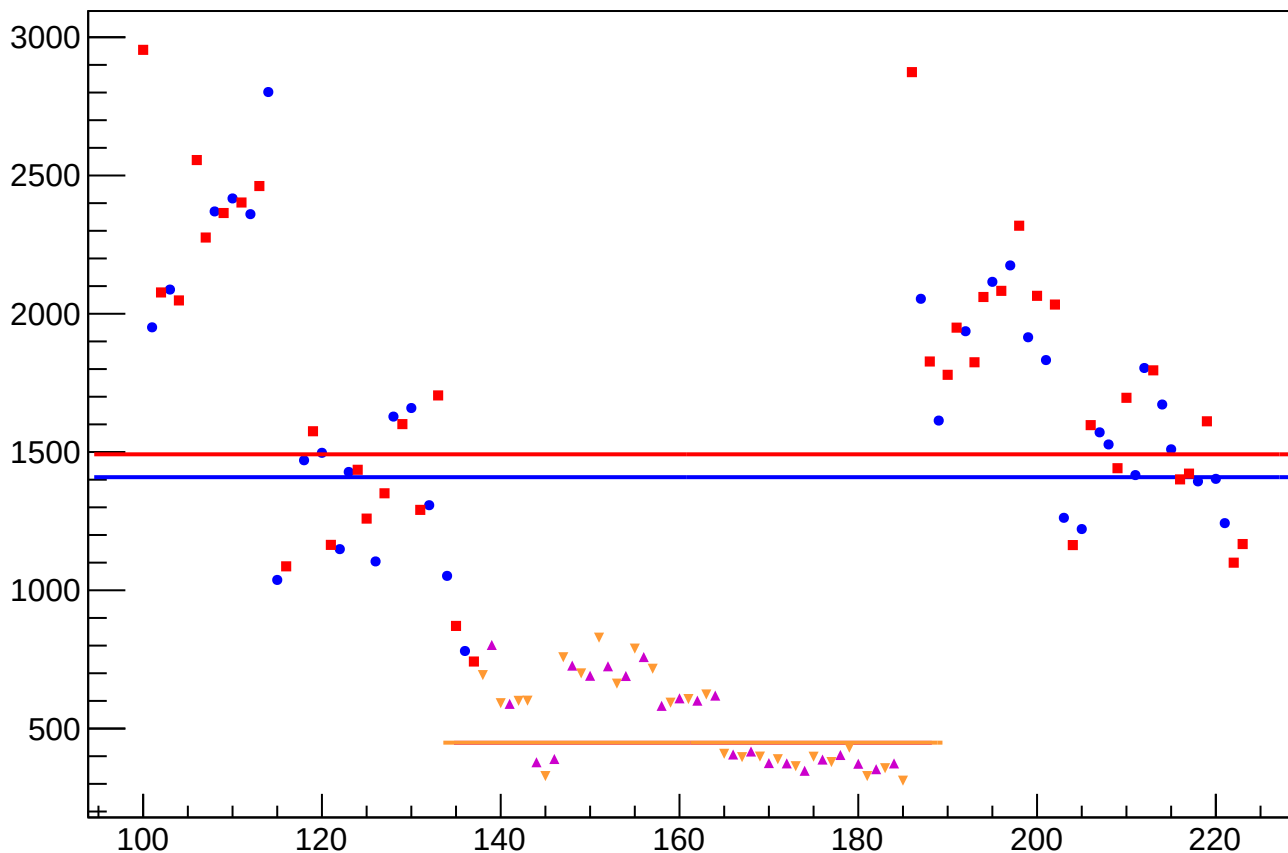
Right: 241.681 $\pm$ 237.543 χ^2 /NDF: 113.0/73

In: 247.452 $\pm$ 106.010 χ^2 /NDF:93.4/57

Out: 185.787 $\pm$ 104.450 χ^2 /NDF:102.8/63

All: 216.163 $\pm$ 74.403 χ^2 /NDF: 196.4/121

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1409.061+/-0.233 χ^2/NDF : 2954798.2/34

Left Out: 449.016+/-0.078 χ^2/NDF : 3090476.2/24

Right Out: 1491.728+/-0.242 χ^2/NDF : 3293968.9/38

Left In: 448.307+/-0.079 χ^2/NDF : 2537376.0/22

Left: 448.669+/-0.055 χ^2/NDF : 5627893.2/47

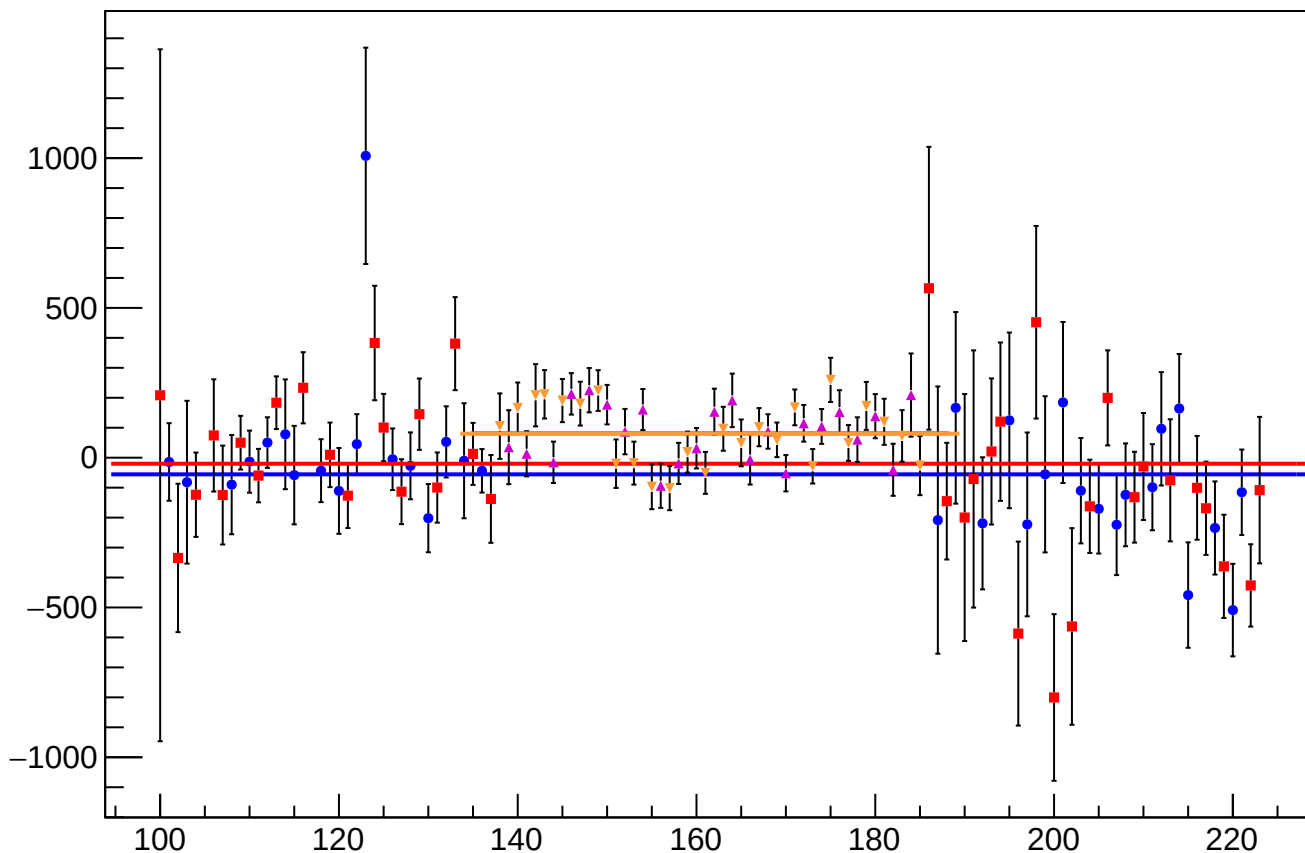
Right: 1448.782+/-0.168 χ^2/NDF : 6309229.4/73

In: 547.712+/-0.075 χ^2/NDF : 20730088.6/57

Out: 545.885+/-0.074 χ^2/NDF : 23180894.4/63

All: 546.785+/-0.053 χ^2/NDF : 43911284.2/12

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -55.552 ± 24.247 χ^2/NDF : 37.2/34

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: -20.149 ± 23.942 χ^2/NDF : 66.7/38

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

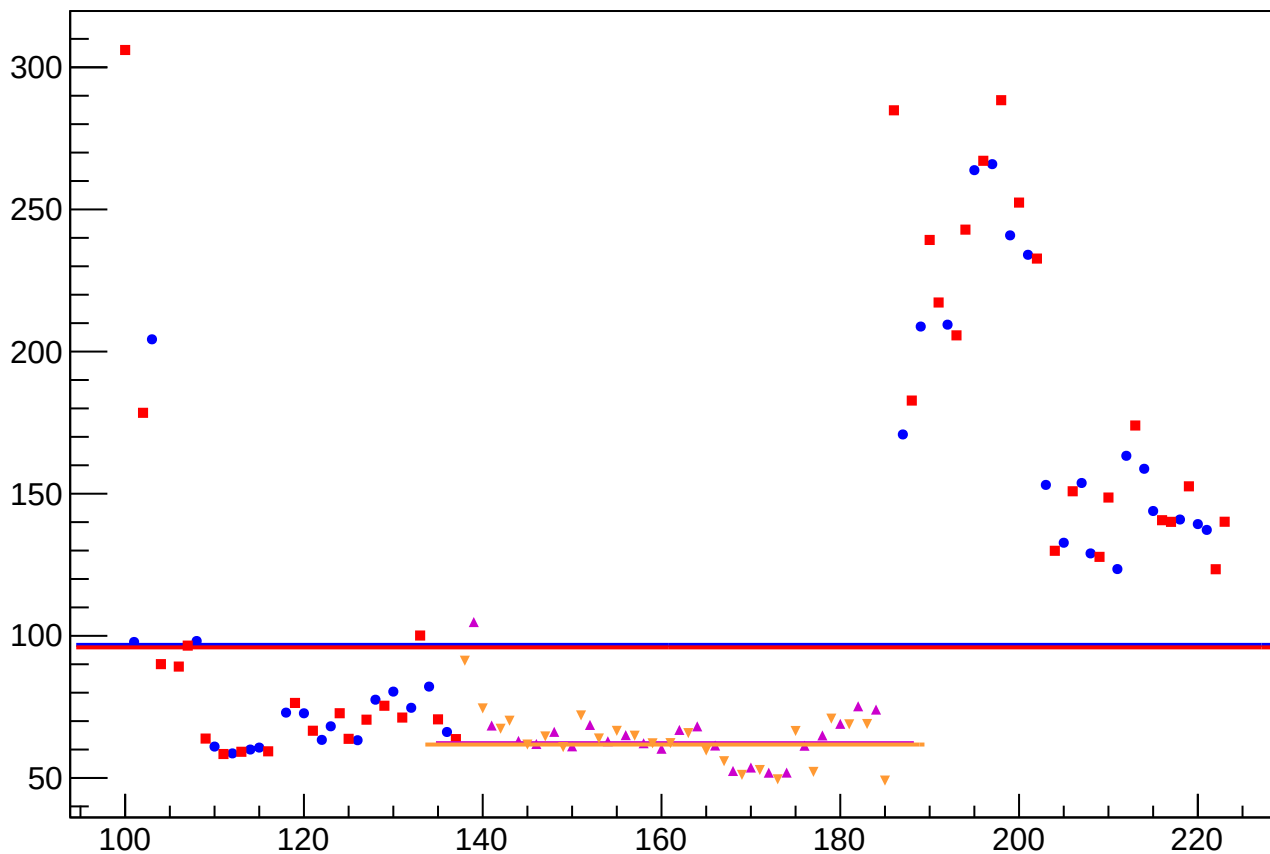
Right: -37.626 ± 17.036 χ^2/NDF : 105.0/73

In: 42.934 ± 12.821 χ^2/NDF : 95.4/57

Out: 52.998 ± 12.460 χ^2/NDF : 128.1/63

All: 48.110 ± 8.936 χ^2/NDF : 223.8/121

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 96.820 $\pm$ 0.017 χ^2 /NDF: 7282239.1/34

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 95.939 $\pm$ 0.017 χ^2 /NDF: 8333352.8/38

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

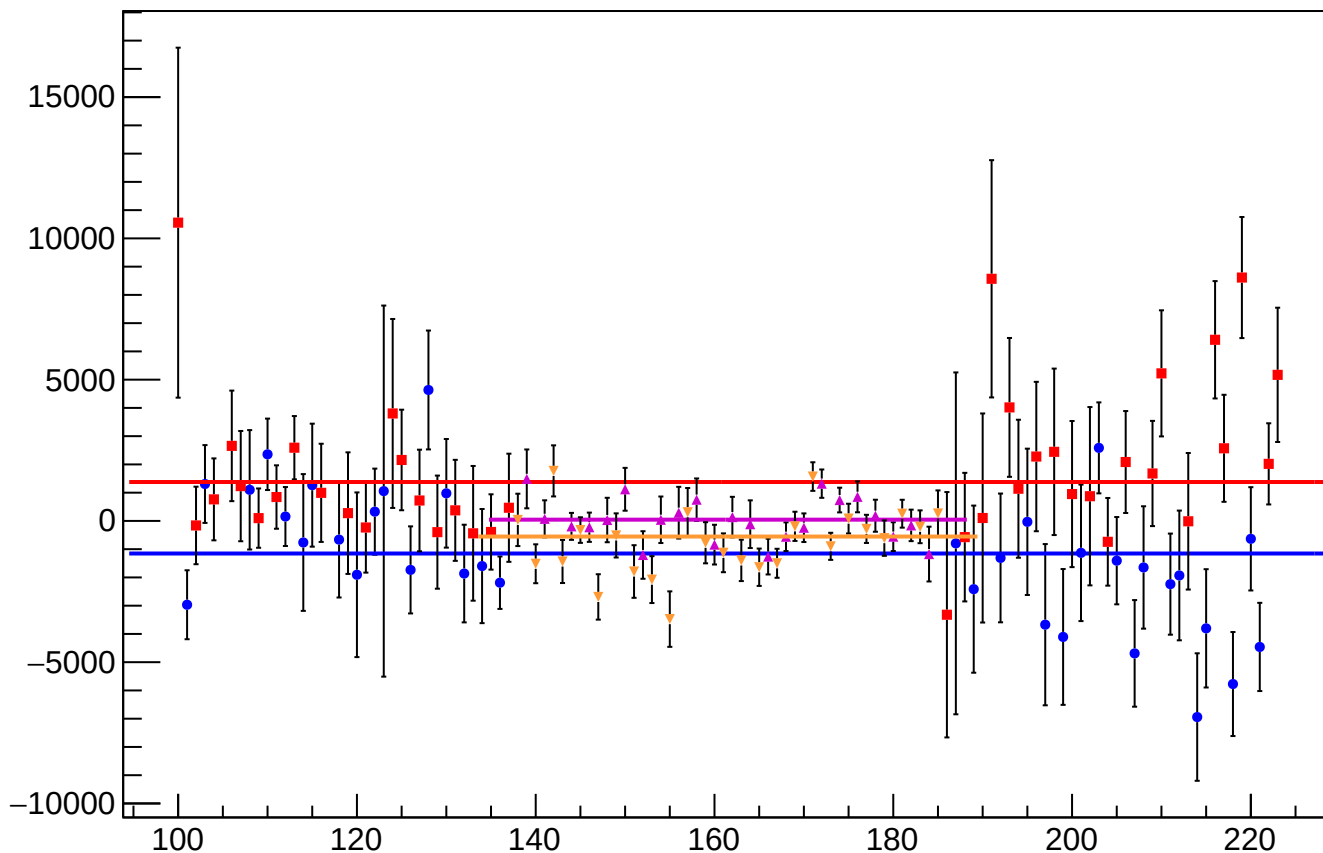
Right: 96.374 $\pm$ 0.012 χ^2 /NDF: 15616930.7/73

In: 71.915 $\pm$ 0.009 χ^2 /NDF: 10802118.0/57

Out: 71.018 $\pm$ 0.009 χ^2 /NDF: 11950708.1/63

All: 71.454 $\pm$ 0.006 χ^2 /NDF: 22757859.6/121

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -1153.230 ± 301.530 $\chi^2/\text{NDF}: 59.8/34$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 1377.236 ± 297.831 $\chi^2/\text{NDF}: 45.0/38$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

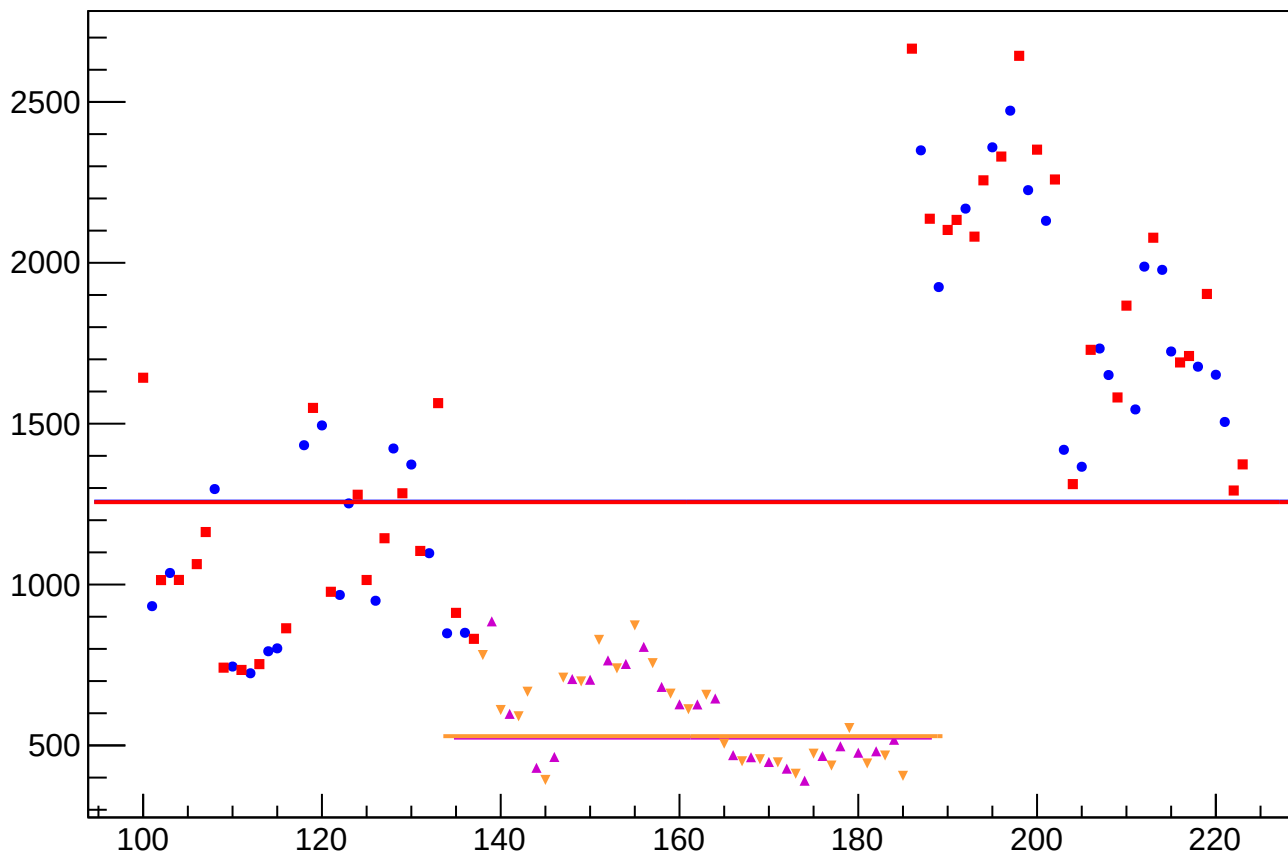
Right: 127.618 ± 211.894 $\chi^2/\text{NDF}: 140.5/73$

In: -140.967 ± 118.675 $\chi^2/\text{NDF}: 102.7/57$

Out: -255.684 ± 116.808 $\chi^2/\text{NDF}: 145.8/63$

All: -199.235 ± 83.248 $\chi^2/\text{NDF}: 249.0/121$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1257.708 $\pm$ 0.213 χ^2 /NDF: 4716213.2/34

Left Out: 528.736 $\pm$ 0.090 χ^2 /NDF:1983697.7/24

Right Out: 1256.106 $\pm$ 0.211 χ^2 /NDF: 5561966.2/38

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

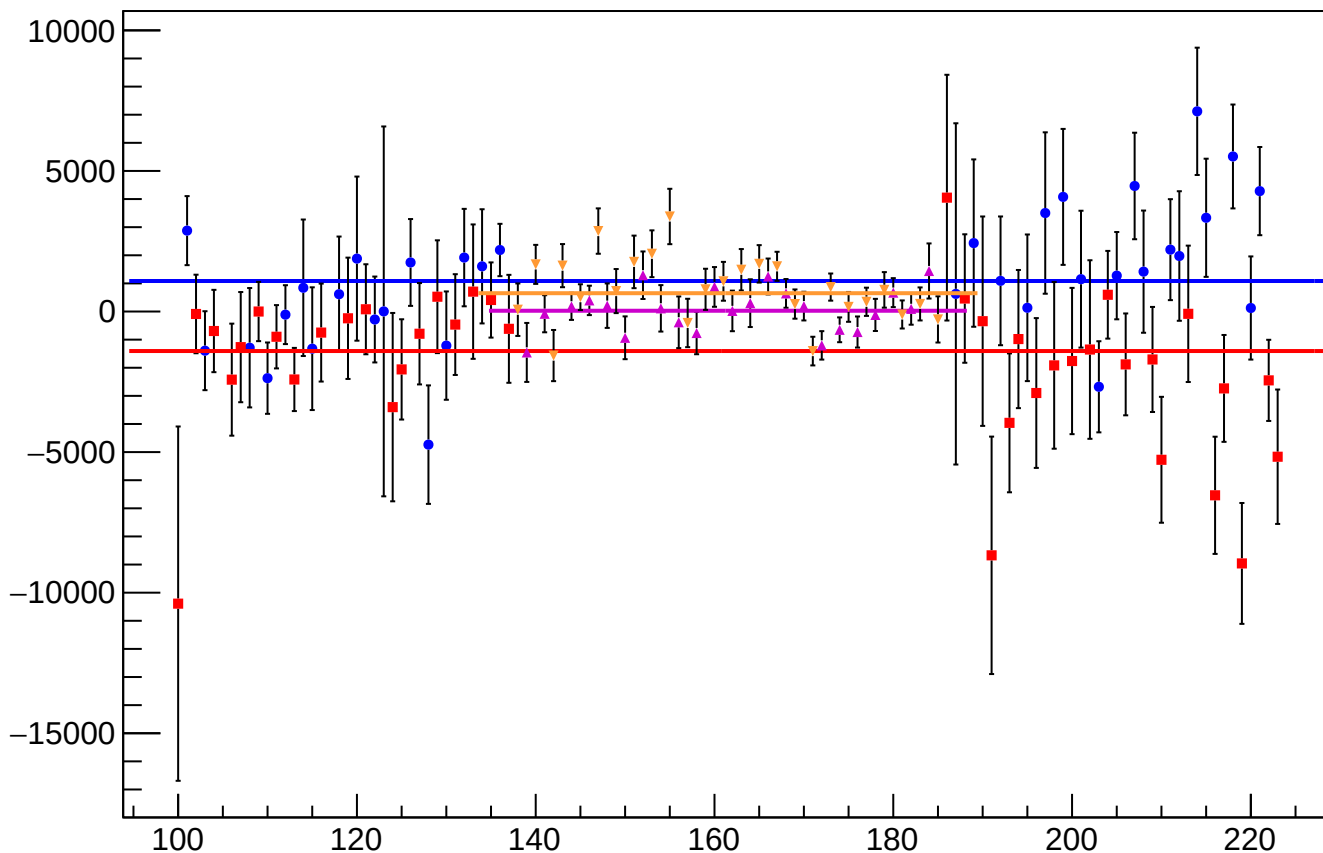
Right: 1256.897 $\pm$ 0.150 χ^2 /NDF: 10278207.9/73

In: 637.881 $\pm$ 0.084 χ^2 /NDF:16432571.9/57

Out: 640.617 $\pm$ 0.083 χ^2 /NDF:17639708.9/63

All: 639.271 $\pm$ 0.059 χ^2 /NDF: 34072820.8/120

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 1085.342 $\pm$ 302.912 χ^2/NDF : 58.5/34

Left Out: 651.560 $\pm$ 127.961 χ^2/NDF : 61.1/24

Right Out: -1405.255 $\pm$ 299.299 χ^2/NDF : 45.8/38

Left In: 27.483 $\pm$ 130.127 χ^2/NDF : 28.5/22

Left: 344.758 $\pm$ 91.238 χ^2/NDF : 101.2/47

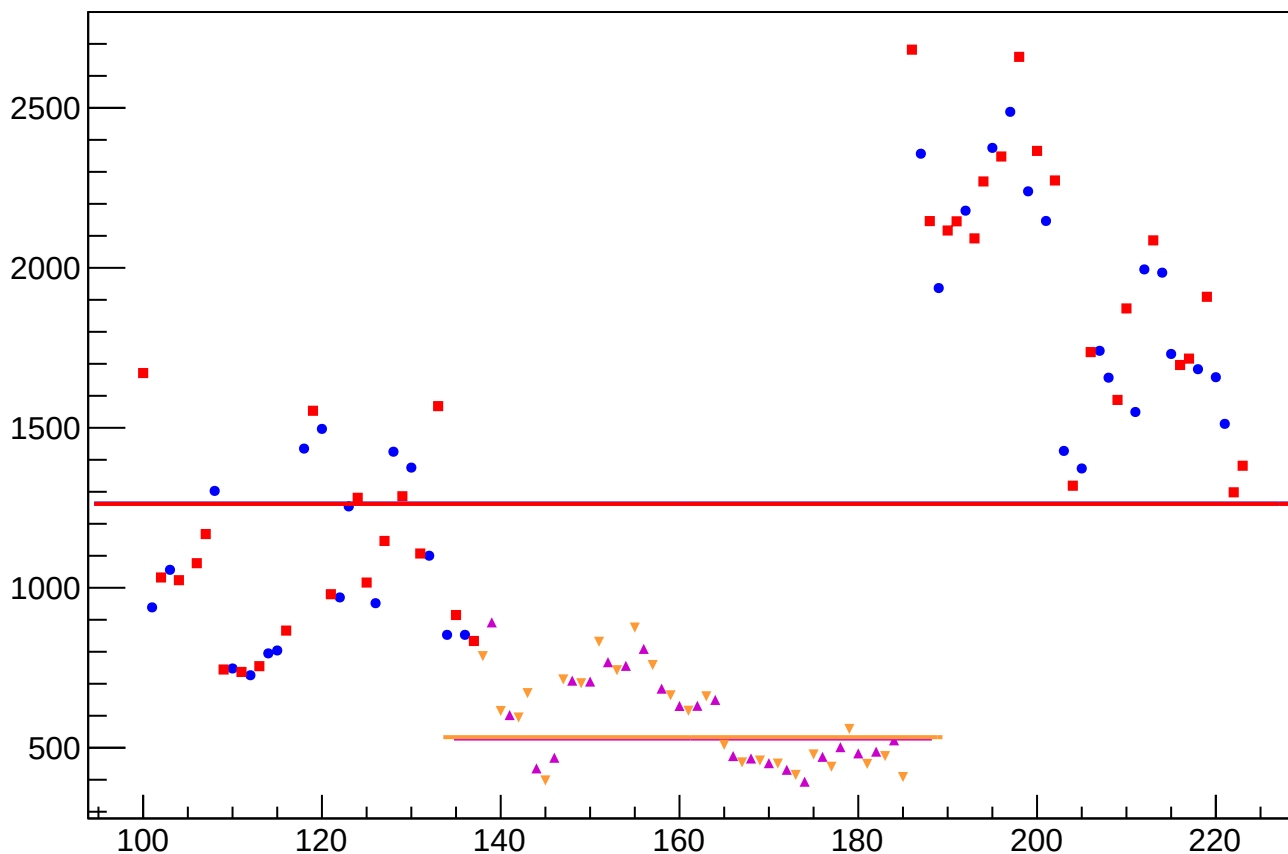
Right: -174.898 $\pm$ 212.902 χ^2/NDF : 138.5/73

In: 192.291 $\pm$ 119.561 χ^2/NDF : 97.3/57

Out: 333.701 $\pm$ 117.659 χ^2/NDF : 146.8/63

All: 264.130 $\pm$ 83.862 χ^2/NDF : 244.8/121

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1263.421+/-0.214 χ^2/NDF : 4719491.2/34

Left Out: 533.060+/-0.090 χ^2/NDF : 1951536.4/24

Right Out: 1262.077+/-0.212 χ^2/NDF : 5567050.3/38

Left In: 528.694+/-0.092 χ^2/NDF : 1688511.2/22

Left: 530.914+/-0.065 χ^2/NDF : 3641192.3/47

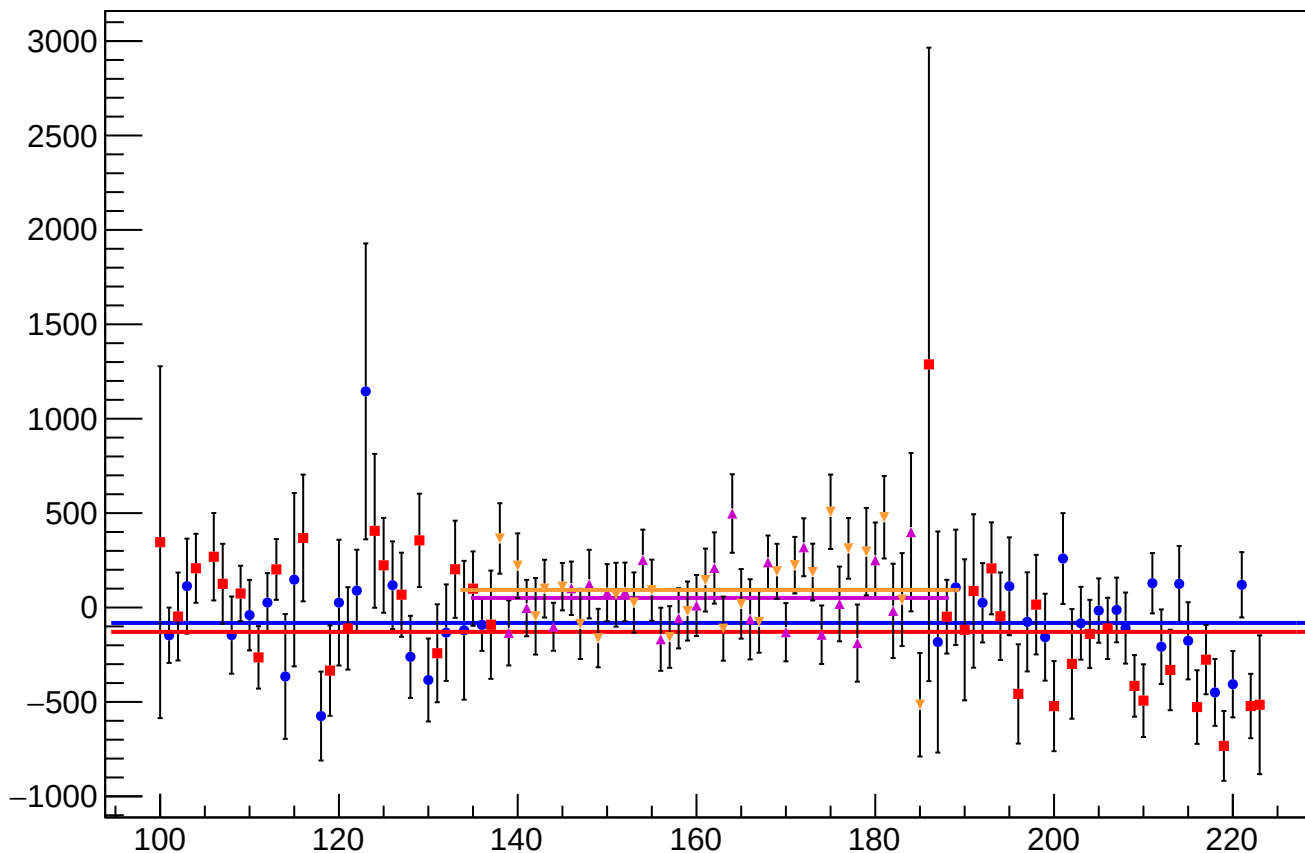
Right: 1262.741+/-0.151 χ^2/NDF : 10286561.5/73

In: 643.160+/-0.085 χ^2/NDF : 16341427.5/57

Out: 645.722+/-0.083 χ^2/NDF : 17550602.0/63

All: 644.461+/-0.059 χ^2/NDF : 33892496.1/12

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -81.561 ± 35.522 χ^2/NDF : 29.6/34

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: -128.828 ± 35.317 χ^2/NDF : 67.0/38

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

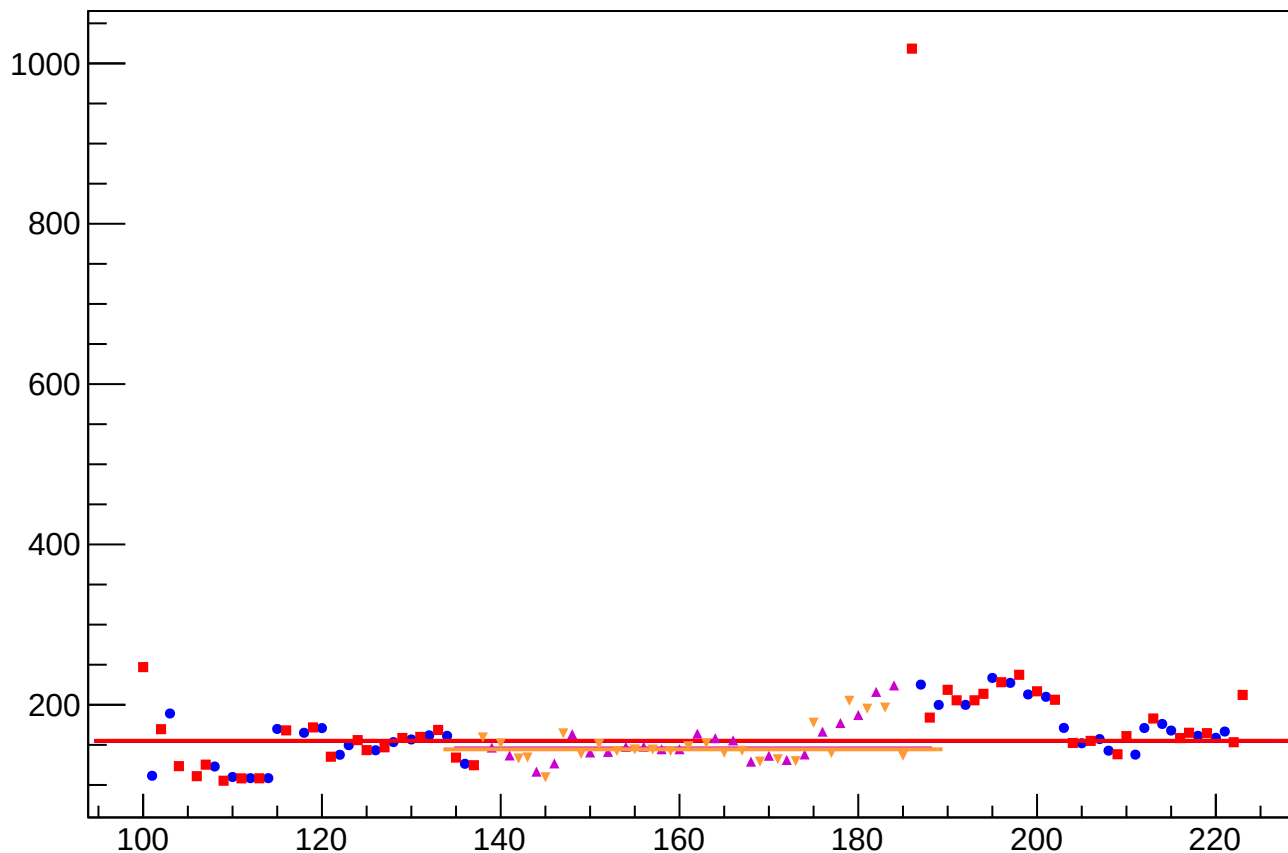
Right: -105.331 ± 25.045 χ^2/NDF : 97.5/73

In: -14.880 ± 25.032 χ^2/NDF : 60.0/57

Out: -13.878 ± 24.514 χ^2/NDF : 116.9/63

All: -14.369 ± 17.514 χ^2/NDF : 176.9/121

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 154.857 $\pm$ 0.025 χ^2 /NDF: 1544426.6/34

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 155.057 $\pm$ 0.025 χ^2 /NDF: 2386543.6/38

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

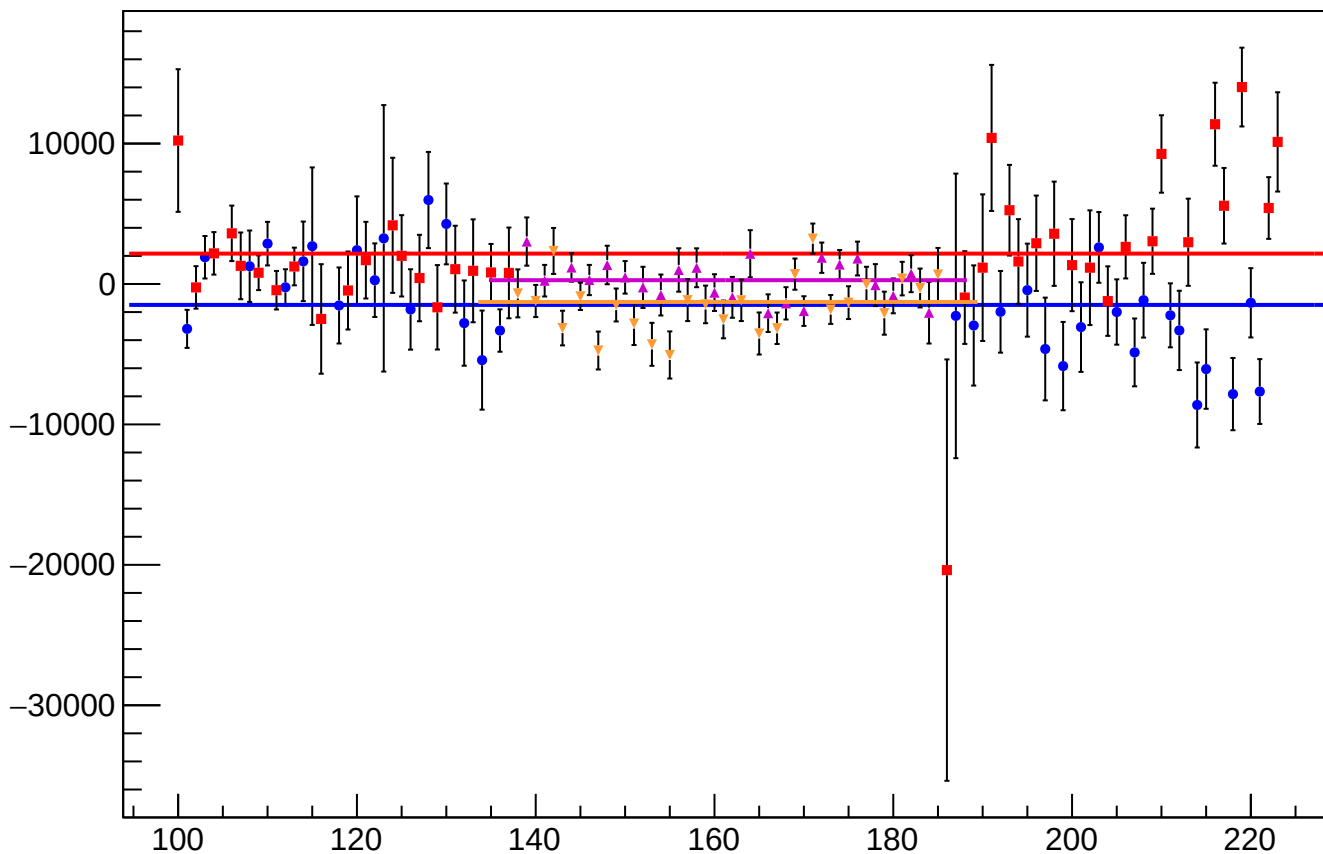
Right: 154.958 $\pm$ 0.018 χ^2 /NDF: 3931002.1/73

In: 150.164 $\pm$ 0.018 χ^2 /NDF: 2257306.1/57

Out: 149.574 $\pm$ 0.017 χ^2 /NDF: 3150078.7/63

All: 149.863 $\pm$ 0.012 χ^2 /NDF: 5407953.1/123

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -1489.164 ± 412.138 $\chi^2/\text{NDF}: 61.5/34$

Left Out: -1279.328 ± 259.299 $\chi^2/\text{NDF}: 55.9/24$

Right Out: 2162.785 ± 393.805 $\chi^2/\text{NDF}: 68.5/38$

Left In: 269.952 ± 266.245 $\chi^2/\text{NDF}: 24.3/22$

Left: -525.161 ± 185.759 $\chi^2/\text{NDF}: 97.6/47$

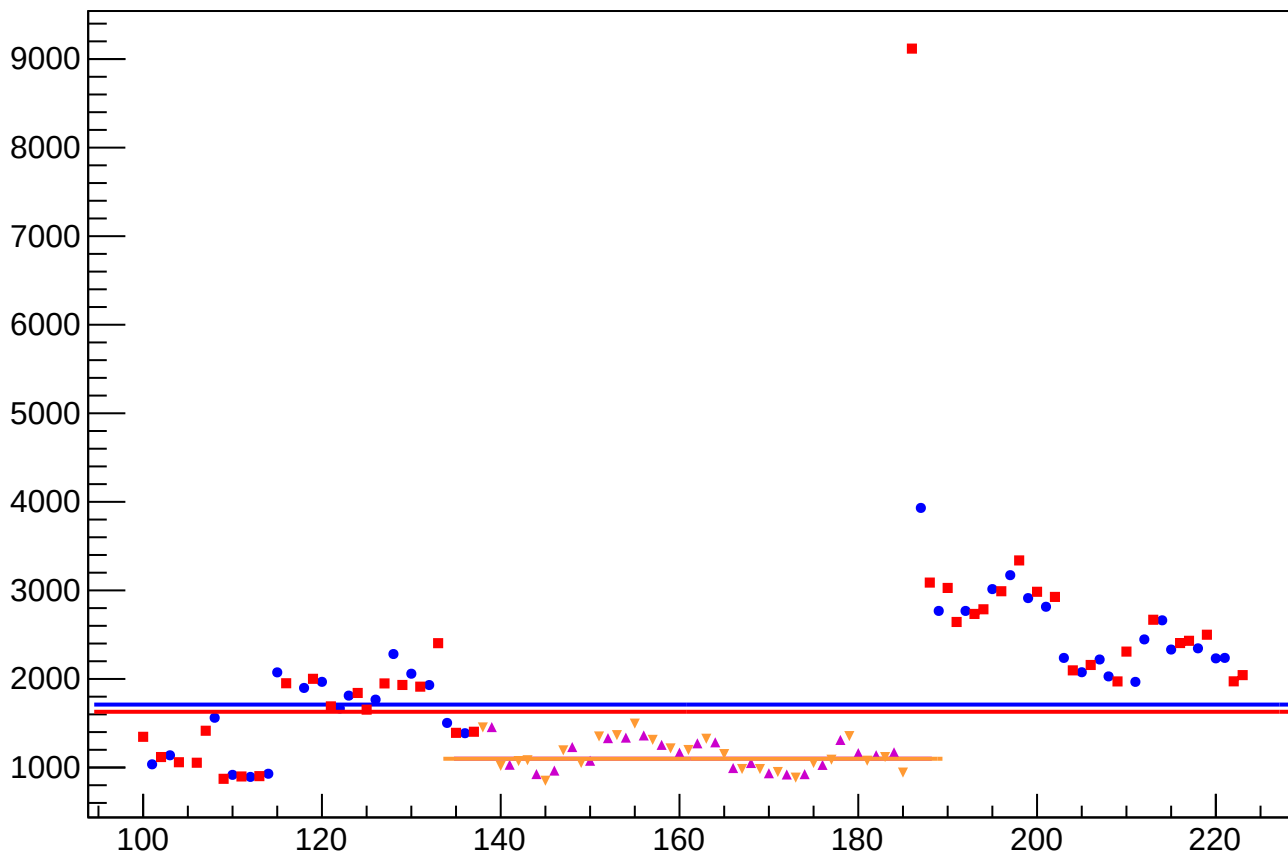
Right: 419.839 ± 284.723 $\chi^2/\text{NDF}: 171.0/73$

In: -248.015 ± 223.638 $\chi^2/\text{NDF}: 98.7/57$

Out: -238.326 ± 216.568 $\chi^2/\text{NDF}: 177.7/63$

All: -243.015 ± 155.576 $\chi^2/\text{NDF}: 276.4/121$

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1710.659 $\pm$ 0.291 χ^2 /NDF: 5163258.1/34

Left Out: 1098.909 $\pm$ 0.183 χ^2 /NDF: 824328.7/24

Right Out: 1629.461 $\pm$ 0.278 χ^2 /NDF: 6928233.2/38

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

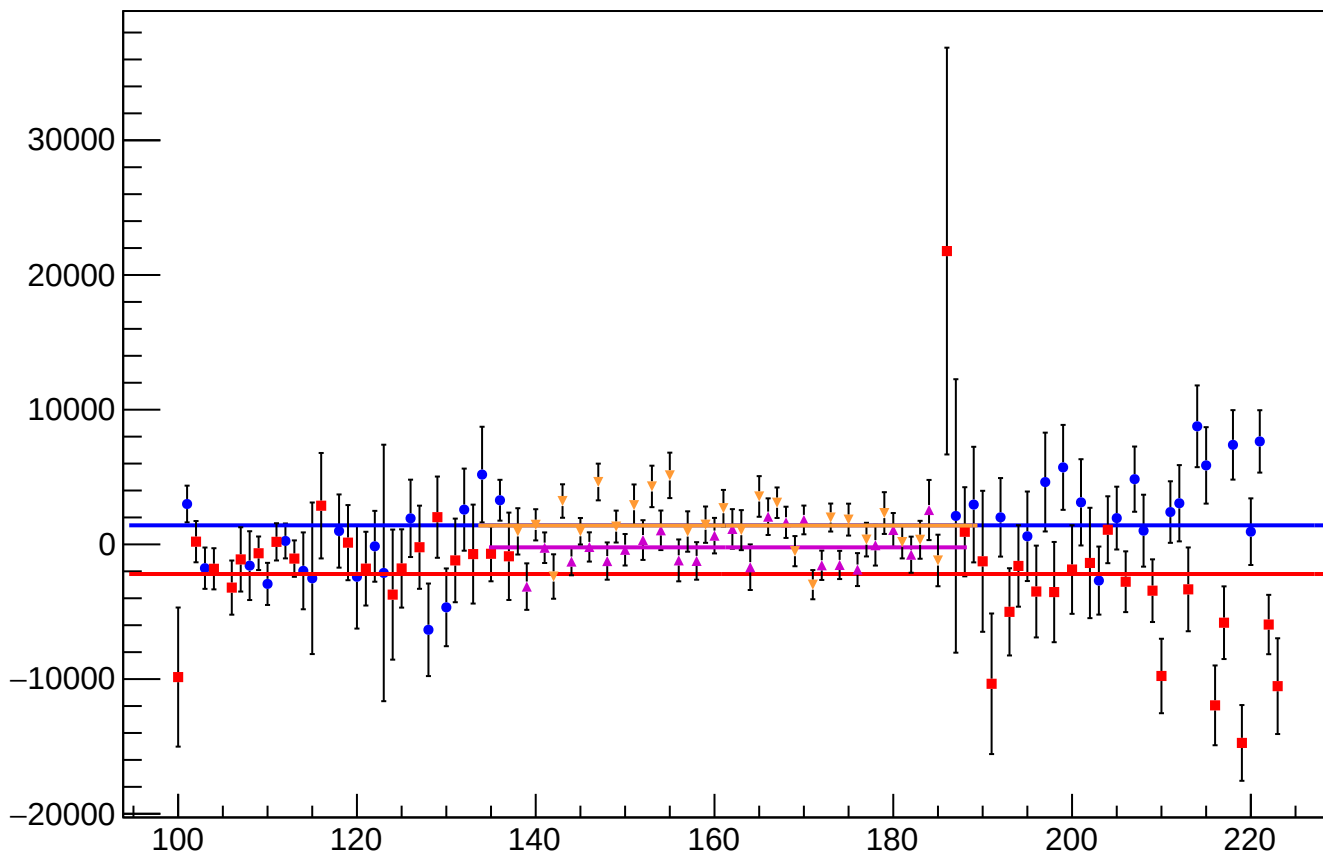
Right: 1668.214 $\pm$ 0.201 χ^2 /NDF: 12132071.2/73

In: 1279.514 $\pm$ 0.158 χ^2 /NDF: 8945295.1/57

Out: 1259.364 $\pm$ 0.153 χ^2 /NDF: 10284839.6/63

All: 1269.116 $\pm$ 0.110 χ^2 /NDF: 19238513.4/120

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 1414.699 $\pm$ 414.218 χ^2 /NDF: 60.7/34

Left Out: 1400.458 $\pm$ 261.804 χ^2 /NDF: 52.2/24

Right Out: -2198.658 $\pm$ 396.179 χ^2 /NDF: 73.9/38

Left In: -219.393 $\pm$ 268.852 χ^2 /NDF: 25.0/22

Left: 612.044 $\pm$ 187.566 χ^2 /NDF: 95.9/47

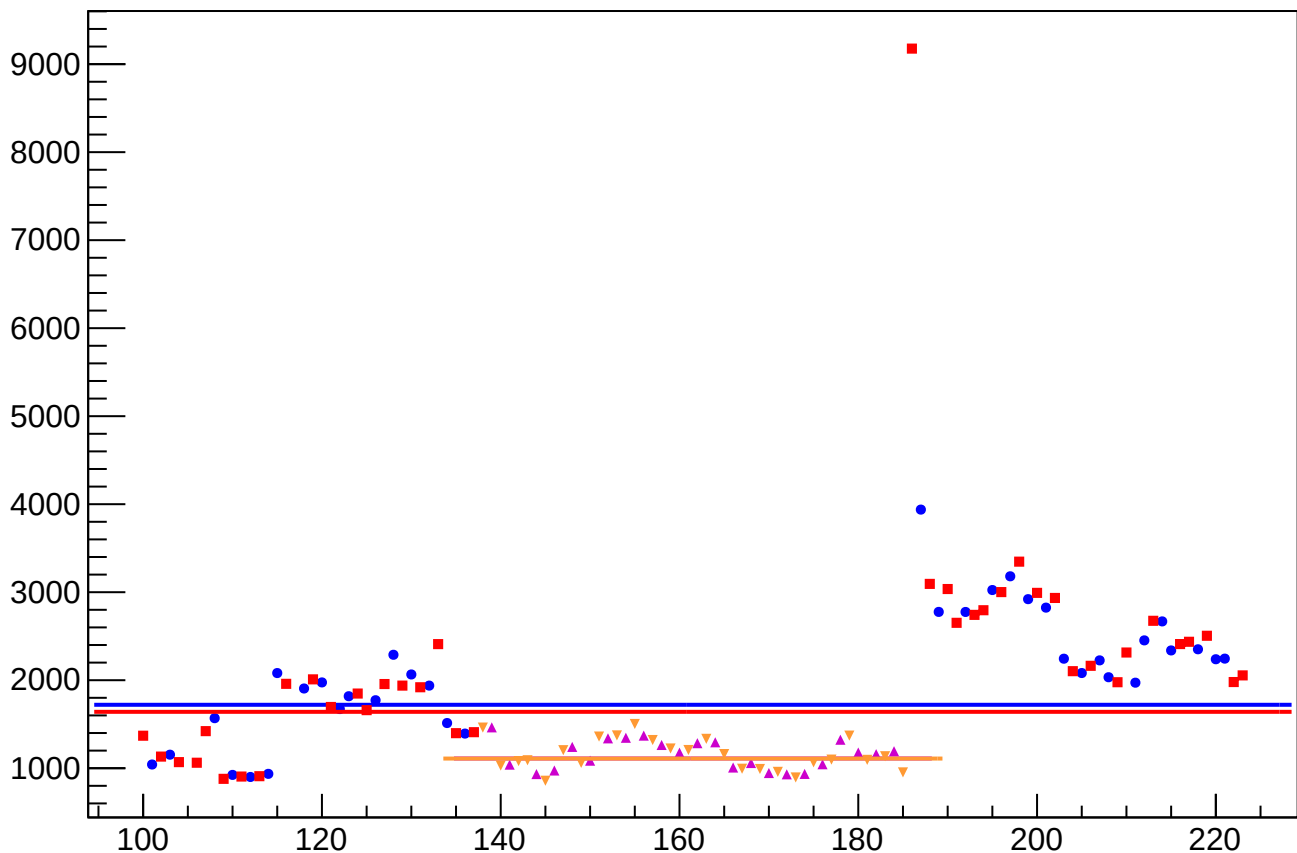
Right: -472.370 $\pm$ 286.306 χ^2 /NDF: 174.3/73

In: 264.965 $\pm$ 225.514 χ^2 /NDF: 96.6/57

Out: 306.495 $\pm$ 218.421 χ^2 /NDF: 183.6/63

All: 286.393 $\pm$ 156.895 χ^2 /NDF: 280.2/121

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1720.756 $\pm$ 0.293 χ^2 /NDF: 5106184.8/34

Left Out: 1109.761 $\pm$ 0.185 χ^2 /NDF: 812174.9/24

Right Out: 1640.817 $\pm$ 0.280 χ^2 /NDF: 6854994.5/38

Left In: 1110.542 $\pm$ 0.190 χ^2 /NDF: 669928.9/22

Left: 1110.141 $\pm$ 0.133 χ^2 /NDF: 1482112.5/47

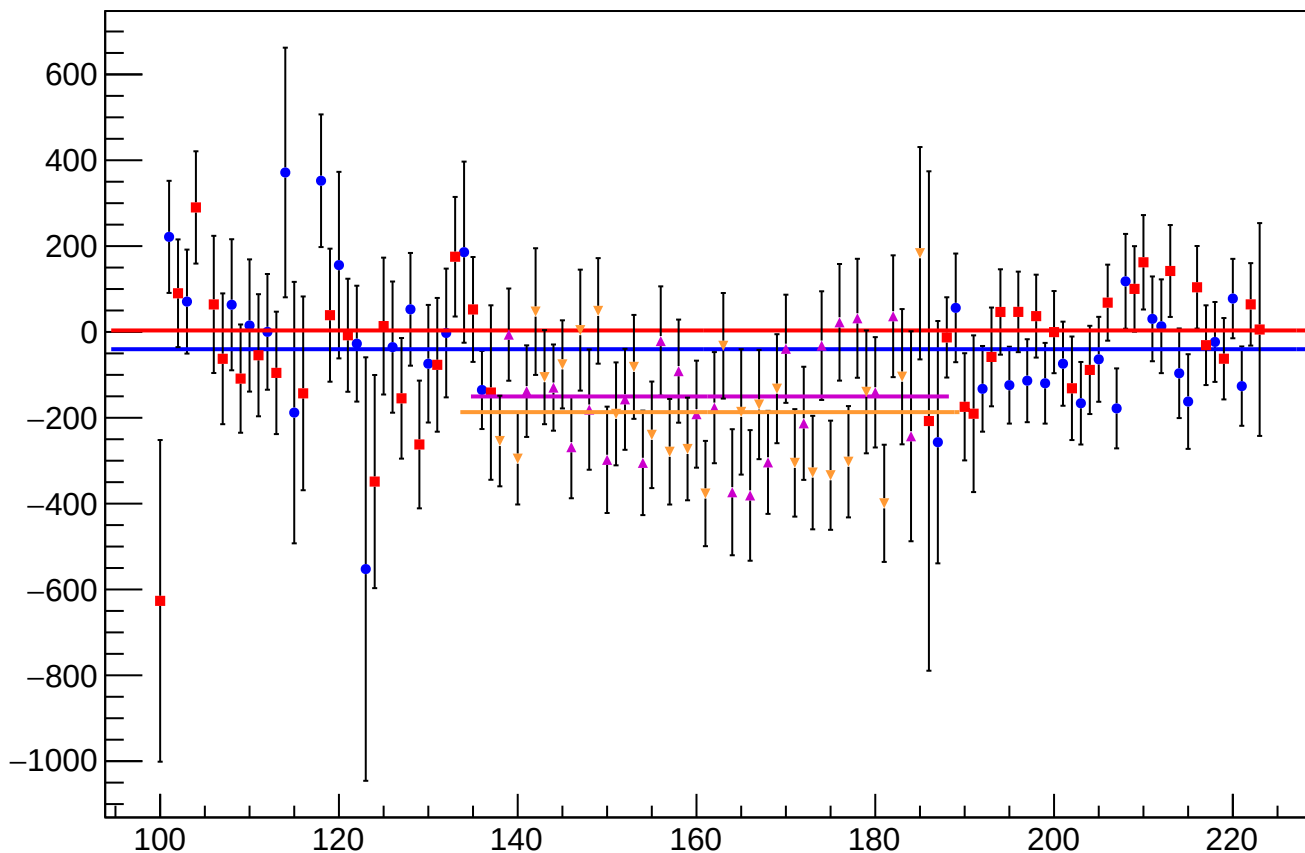
Right: 1679.008 $\pm$ 0.202 χ^2 /NDF: 12000080.4/73

In: 1291.414 $\pm$ 0.159 χ^2 /NDF: 8830025.7/57

Out: 1271.177 $\pm$ 0.154 χ^2 /NDF: 10168462.3/63

All: 1280.972 $\pm$ 0.111 χ^2 /NDF: 19006797.5/1

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -40.229 ± 20.022 χ^2/NDF : 34.1/34

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: 3.468 ± 19.739 χ^2/NDF : 32.8/38

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

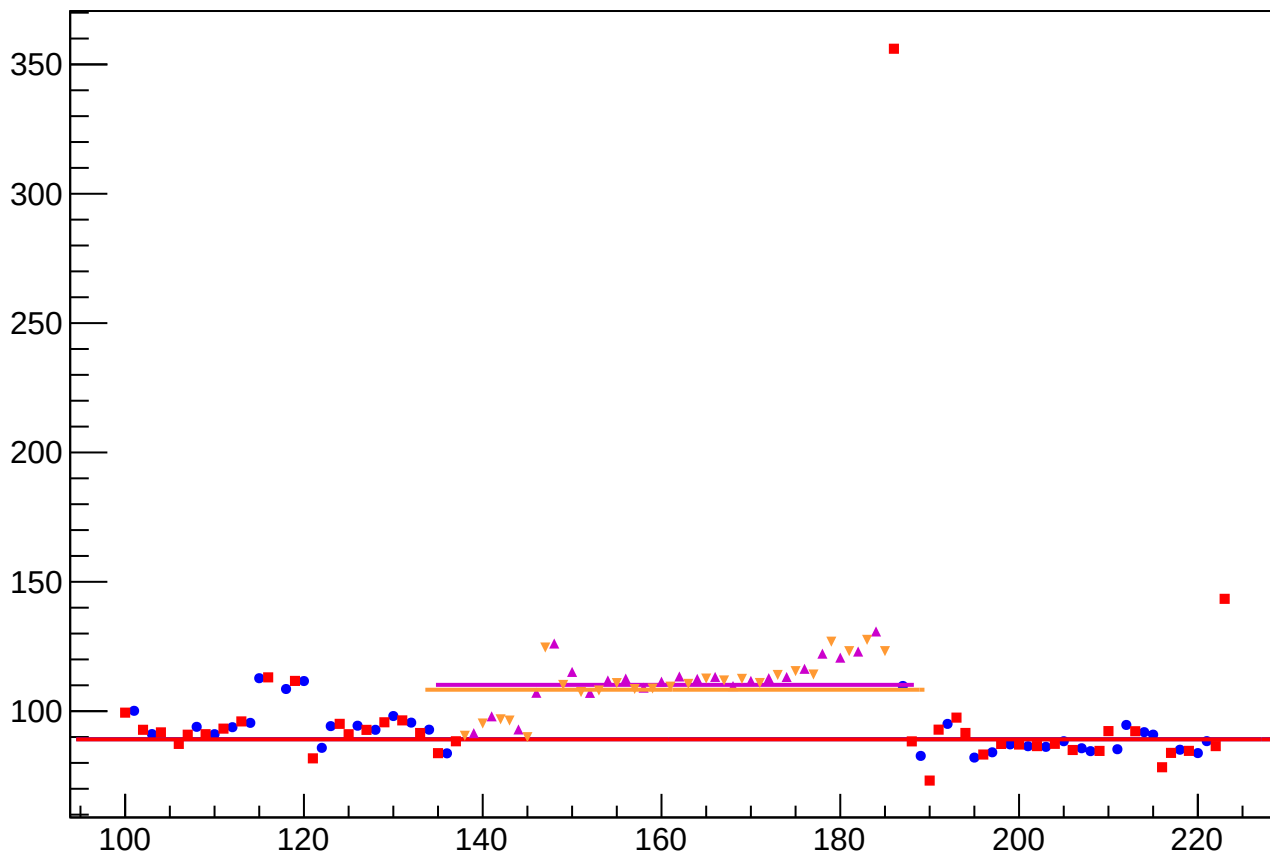
Right: -18.070 ± 14.057 χ^2/NDF : 69.3/73

In: -80.340 ± 15.963 χ^2/NDF : 65.8/57

Out: -68.514 ± 15.565 χ^2/NDF : 94.6/63

All: -74.278 ± 11.144 χ^2/NDF : 160.6/121

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 89.164 $\pm$ 0.014 χ^2 /NDF: 182918.5/34

Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24

Right Out: 89.102 $\pm$ 0.014 χ^2 /NDF: 720966.9/38

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

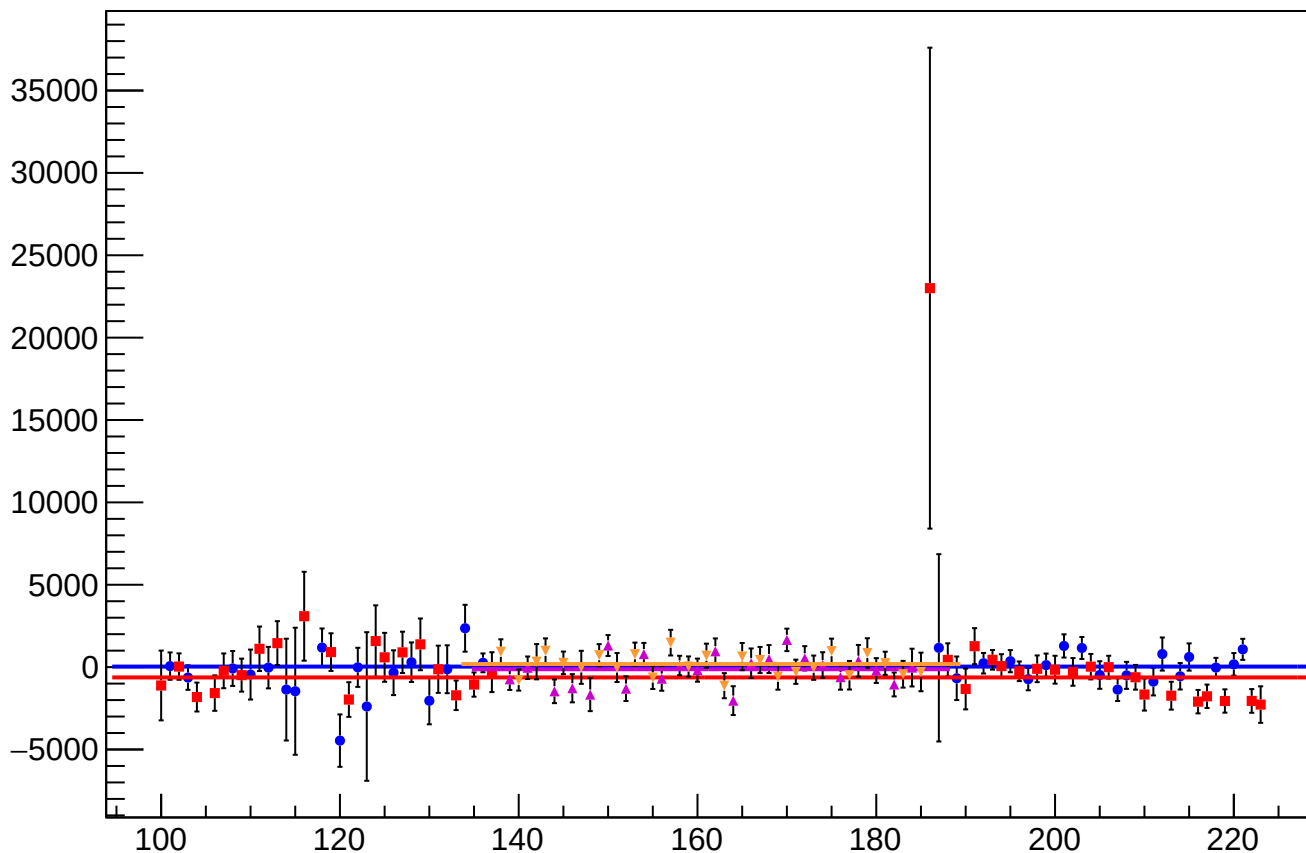
Right: 89.133 $\pm$ 0.010 χ^2 /NDF: 903894.9/73

In: 96.819 $\pm$ 0.011 χ^2 /NDF: 1232258.8/57

Out: 96.359 $\pm$ 0.011 χ^2 /NDF: 1766247.3/63

All: 96.583 $\pm$ 0.008 χ^2 /NDF: 2999356.8/121

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: 32.166+/-149.376 χ^2/NDF : 34.0/34

Left Out: 185.392+/-153.683 χ^2/NDF : 18.4/24

Right Out: -625.833+/-147.875 χ^2/NDF : 53.7/38

Left In: -128.782+/-157.155 χ^2/NDF : 36.2/22

Left: 31.814+/-109.877 χ^2/NDF : 56.6/47

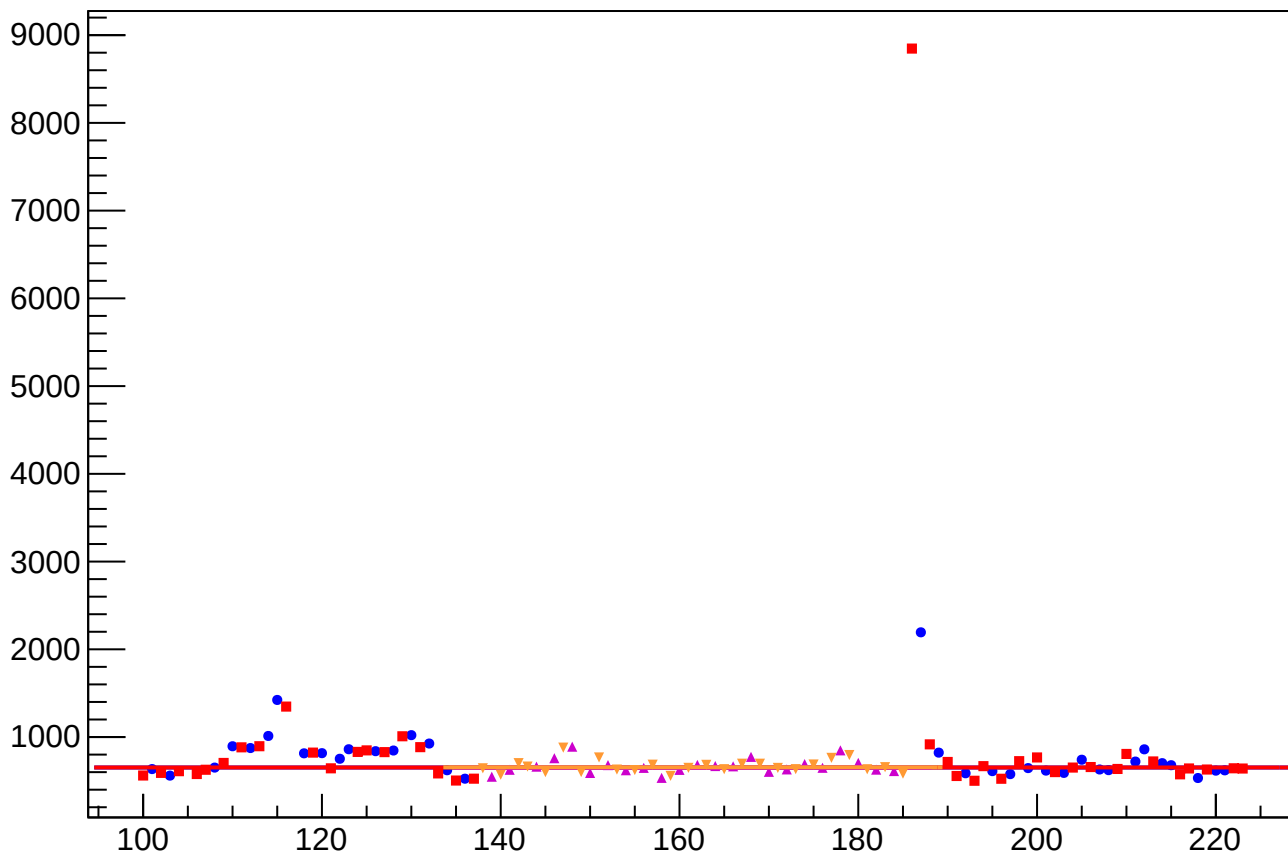
Right: -300.154+/-105.090 χ^2/NDF : 97.5/73

In: -44.226+/-108.270 χ^2/NDF : 70.8/57

Out: -235.838+/-106.558 χ^2/NDF : 86.5/63

All: -141.559+/-75.946 χ^2/NDF : 158.9/121

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 652.790 $\pm$ 0.106 χ^2 /NDF: 1208244.2/34

Left Out: 655.155 $\pm$ 0.109 χ^2 /NDF: 367349.8/24

Right Out: 653.209 $\pm$ 0.105 χ^2 /NDF: 1857306.7/38

Left In: 650.883 $\pm$ 0.111 χ^2 /NDF: 466116.8/22

Left: 653.067 $\pm$ 0.078 χ^2 /NDF: 834222.1/47

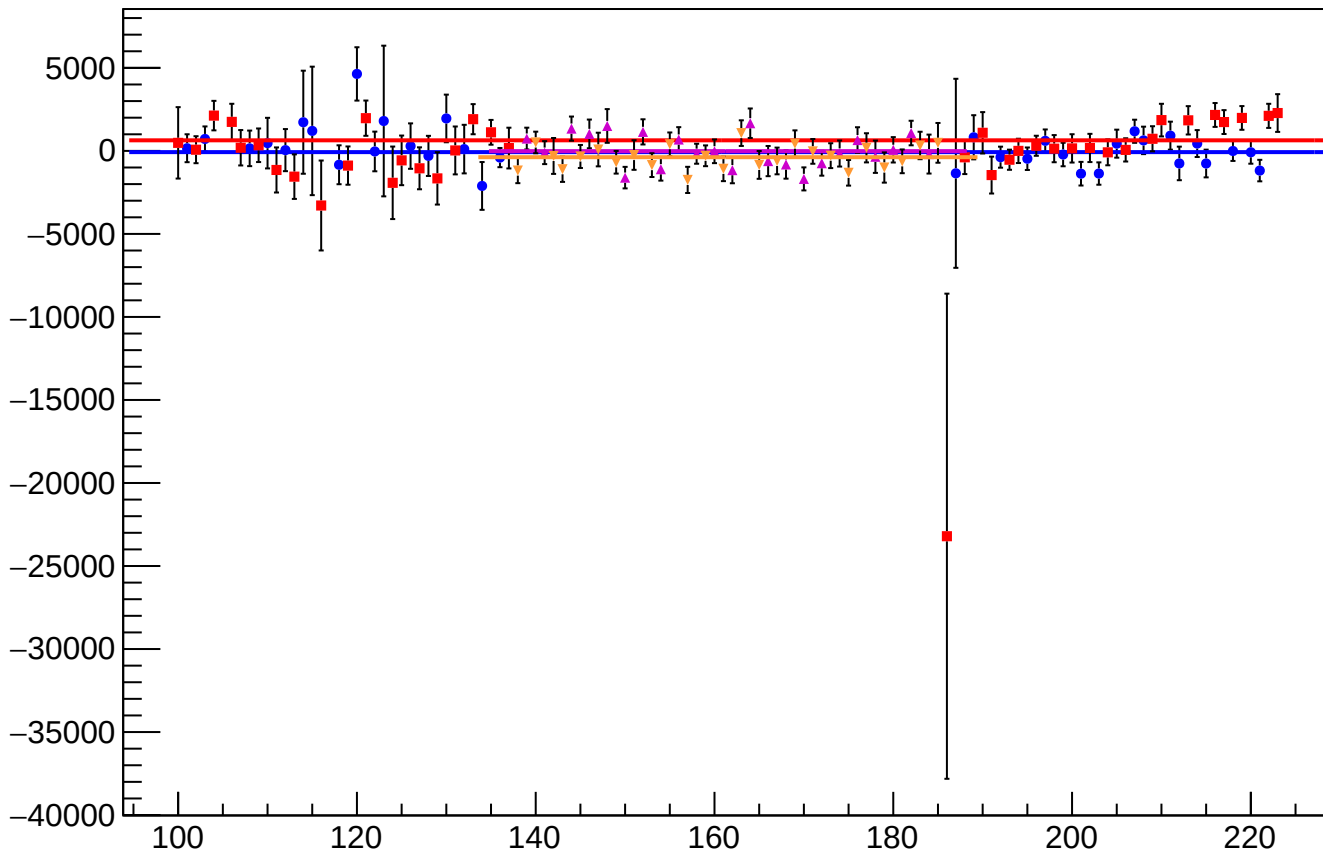
Right: 653.002 $\pm$ 0.074 χ^2 /NDF: 3065558.8/73

In: 651.885 $\pm$ 0.077 χ^2 /NDF: 1674515.7/57

Out: 654.144 $\pm$ 0.075 χ^2 /NDF: 2224823.1/63

All: 653.033 $\pm$ 0.054 χ^2 /NDF: 3899781.2/121

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -73.671 ± 150.894 $\chi^2/\text{NDF}: 34.8/34$

Left Out: -379.470 ± 155.892 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 636.750 ± 149.428 $\chi^2/\text{NDF}: 57.9/38$

Left In: -14.768 ± 159.513 $\chi^2/\text{NDF}: 37.2/22$

Left: -201.306 ± 111.491 $\chi^2/\text{NDF}: 58.7/47$

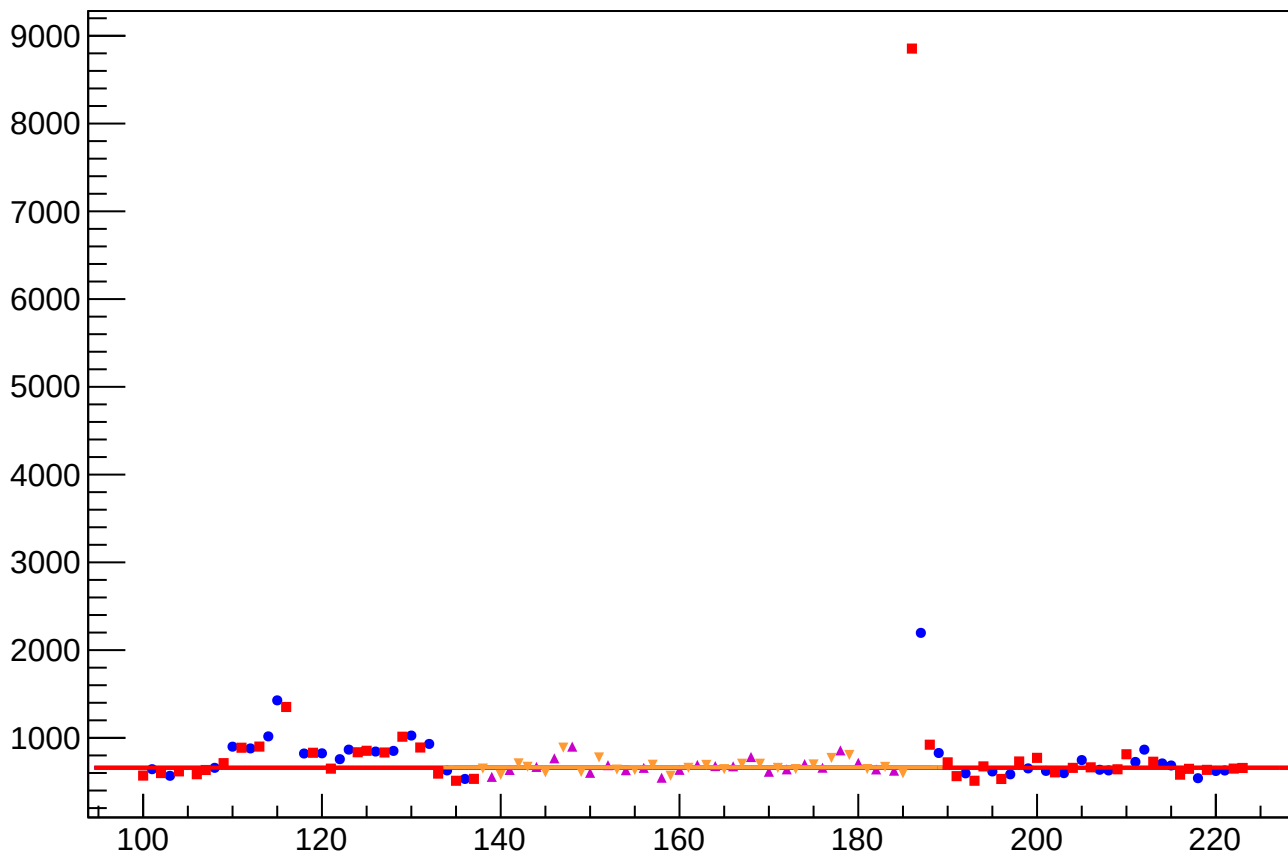
Right: 285.009 ± 106.176 $\chi^2/\text{NDF}: 103.9/73$

In: -45.854 ± 109.619 $\chi^2/\text{NDF}: 72.1/57$

Out: 150.147 ± 107.874 $\chi^2/\text{NDF}: 98.9/63$

All: 53.719 ± 76.888 $\chi^2/\text{NDF}: 172.5/121$

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 659.807 $\pm$ 0.107 χ^2 /NDF: 1179871.4/34

Left Out: 664.773 $\pm$ 0.110 χ^2 /NDF: 357053.8/24

Right Out: 660.531 $\pm$ 0.106 χ^2 /NDF: 1819765.7/38

Left In: 660.890 $\pm$ 0.113 χ^2 /NDF: 449180.0/22

Left: 662.876 $\pm$ 0.079 χ^2 /NDF: 806839.8/47

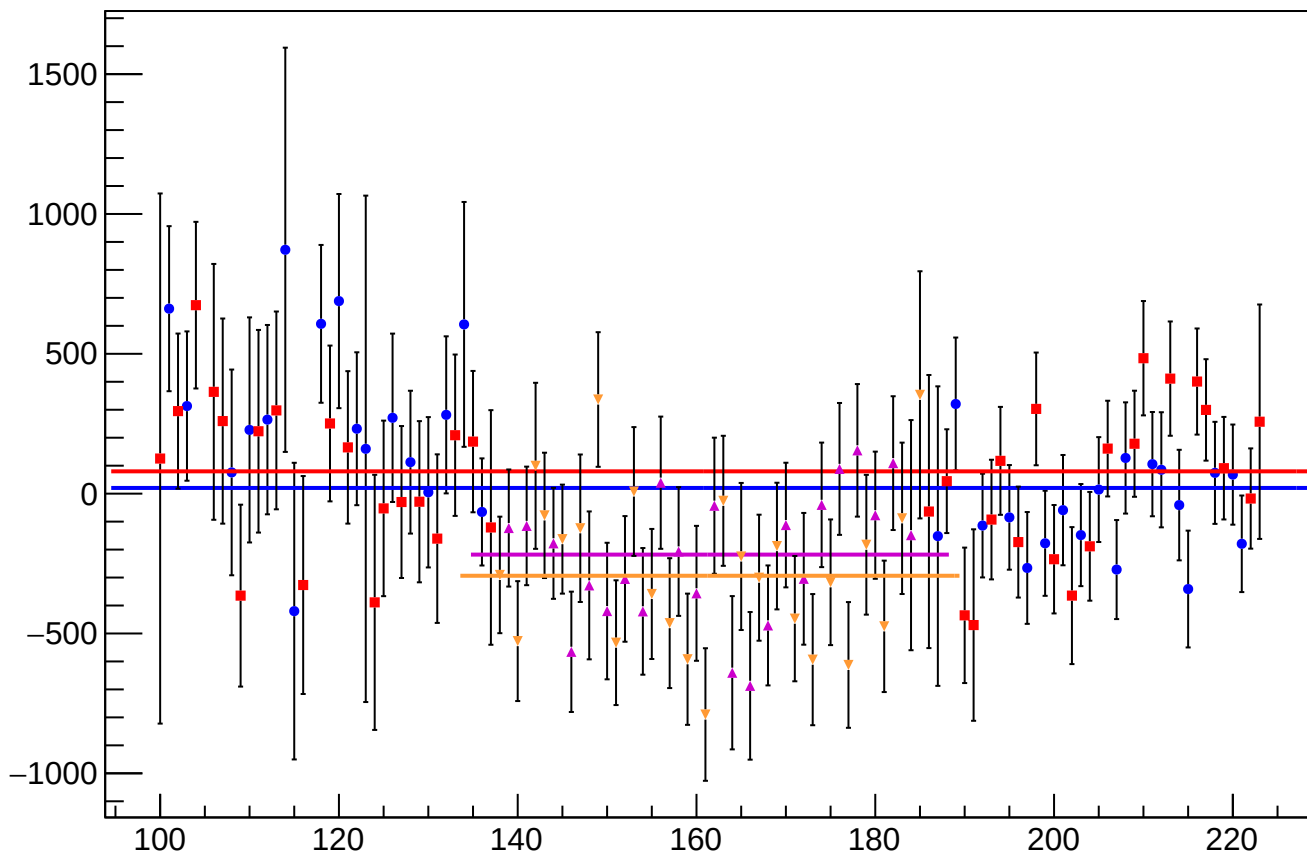
Right: 660.172 $\pm$ 0.075 χ^2 /NDF: 2999660.4/73

In: 660.318 $\pm$ 0.078 χ^2 /NDF: 1629100.1/57

Out: 662.562 $\pm$ 0.076 χ^2 /NDF: 2177591.2/63

All: 661.458 $\pm$ 0.054 χ^2 /NDF: 3807116.9/123

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected

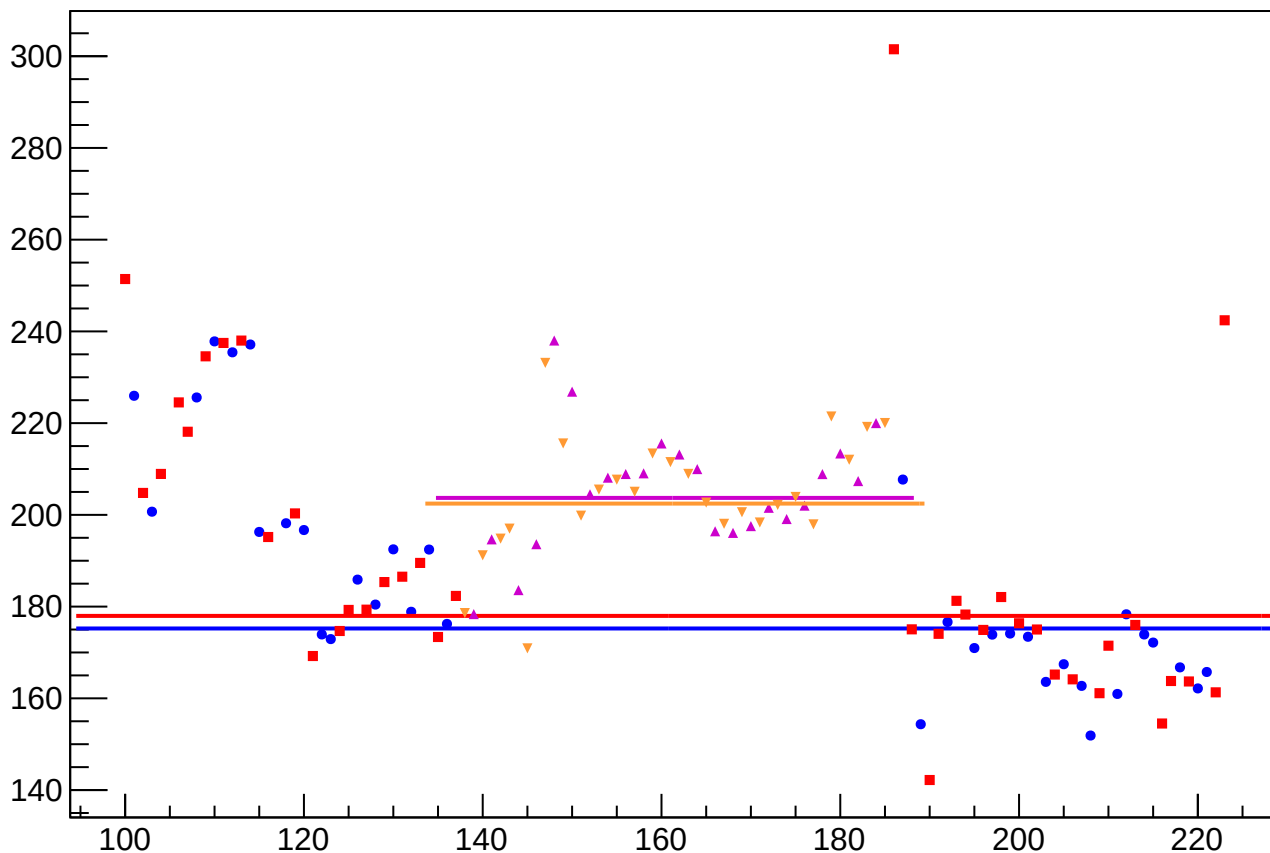


Right In: 20.373 ± 39.469 $\chi^2/\text{NDF}: 35.1/34$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 79.746 ± 39.453 $\chi^2/\text{NDF}: 42.4/38$
 Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$
 Right: 50.072 ± 27.903 $\chi^2/\text{NDF}: 78.6/73$
 In: -73.836 ± 30.693 $\chi^2/\text{NDF}: 70.8/57$
 Out: -73.799 ± 30.272 $\chi^2/\text{NDF}: 109.5/63$

All: -73.817 ± 21.553 $\chi^2/\text{NDF}: 180.4/121$

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 175.230 $\pm$ 0.028 χ^2 /NDF: 386046.4/34

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 177.973 $\pm$ 0.028 χ^2 /NDF: 629139.1/38

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

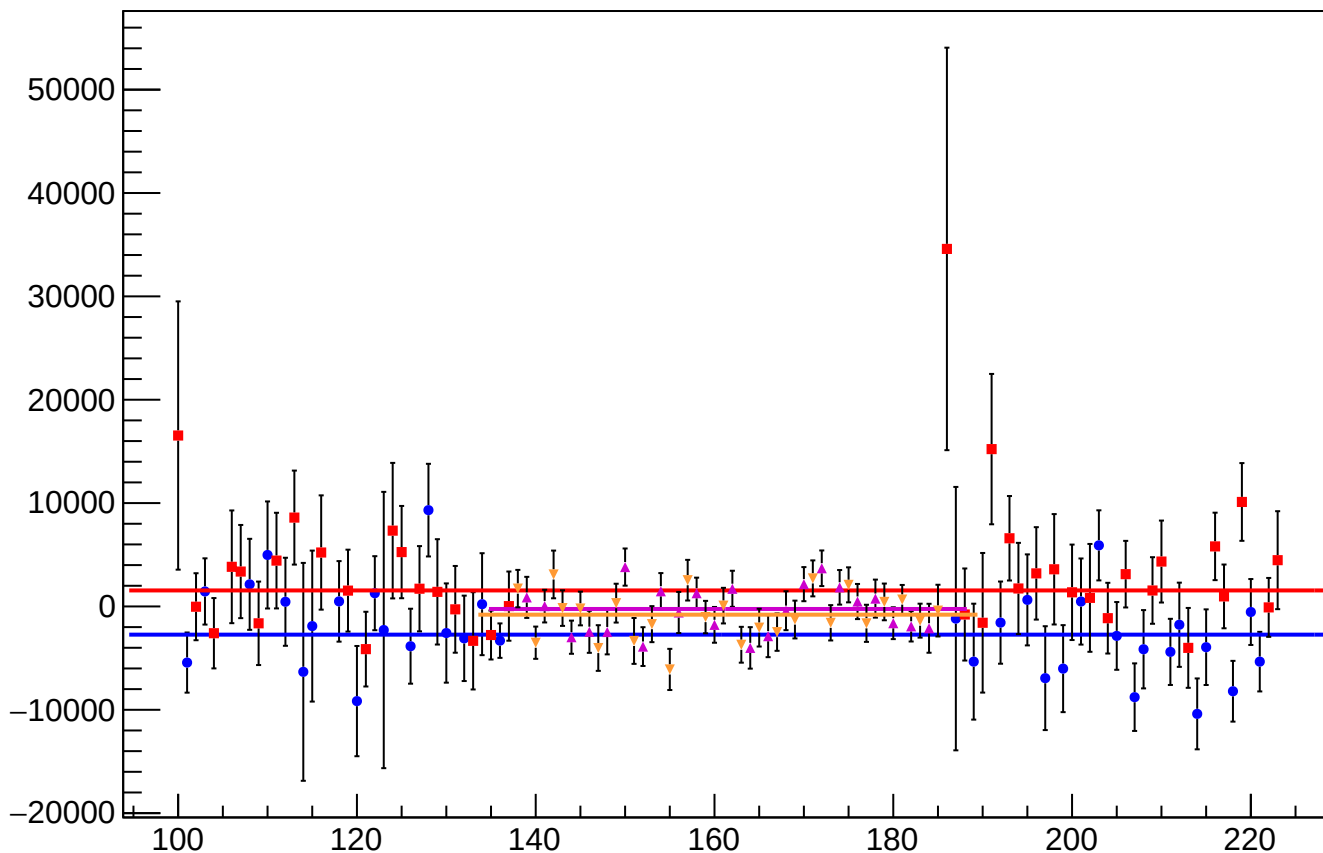
Right: 176.602 $\pm$ 0.020 χ^2 /NDF: 1020020.2/73

In: 186.483 $\pm$ 0.022 χ^2 /NDF:933539.4/57

Out: 188.044 $\pm$ 0.021 χ^2 /NDF:1104539.6/63

All: 187.274 $\pm$ 0.015 χ^2 /NDF: 2040700.9/123

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -2729.126 $\pm$ 632.103 χ^2 /NDF: 40.9/34

Left Out: -796.528 $\pm$ 357.851 χ^2 /NDF: 35.7/24

Right Out: 1548.731 $\pm$ 650.930 χ^2 /NDF: 35.8/38

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

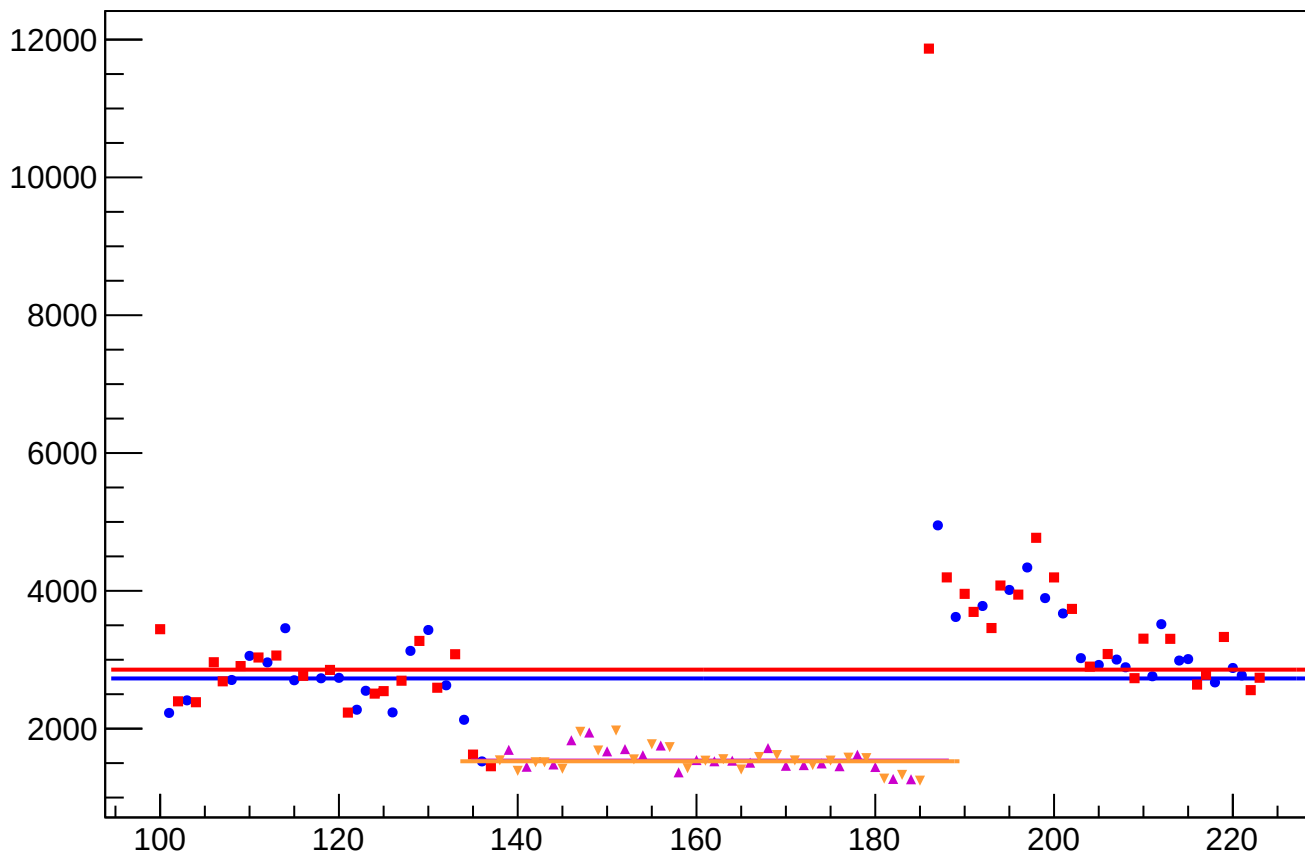
Right: -652.957 $\pm$ 453.474 χ^2 /NDF: 98.9/73

In: -878.618 $\pm$ 319.219 χ^2 /NDF: 88.1/57

Out: -252.227 $\pm$ 313.587 χ^2 /NDF: 81.5/63

All: -559.848 $\pm$ 223.704 χ^2 /NDF: 171.6/121

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2728.507 $\pm$ 0.447 χ^2 /NDF: 2332647.4/34

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2856.455 $\pm$ 0.460 χ^2 /NDF: 2707527.7/38

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

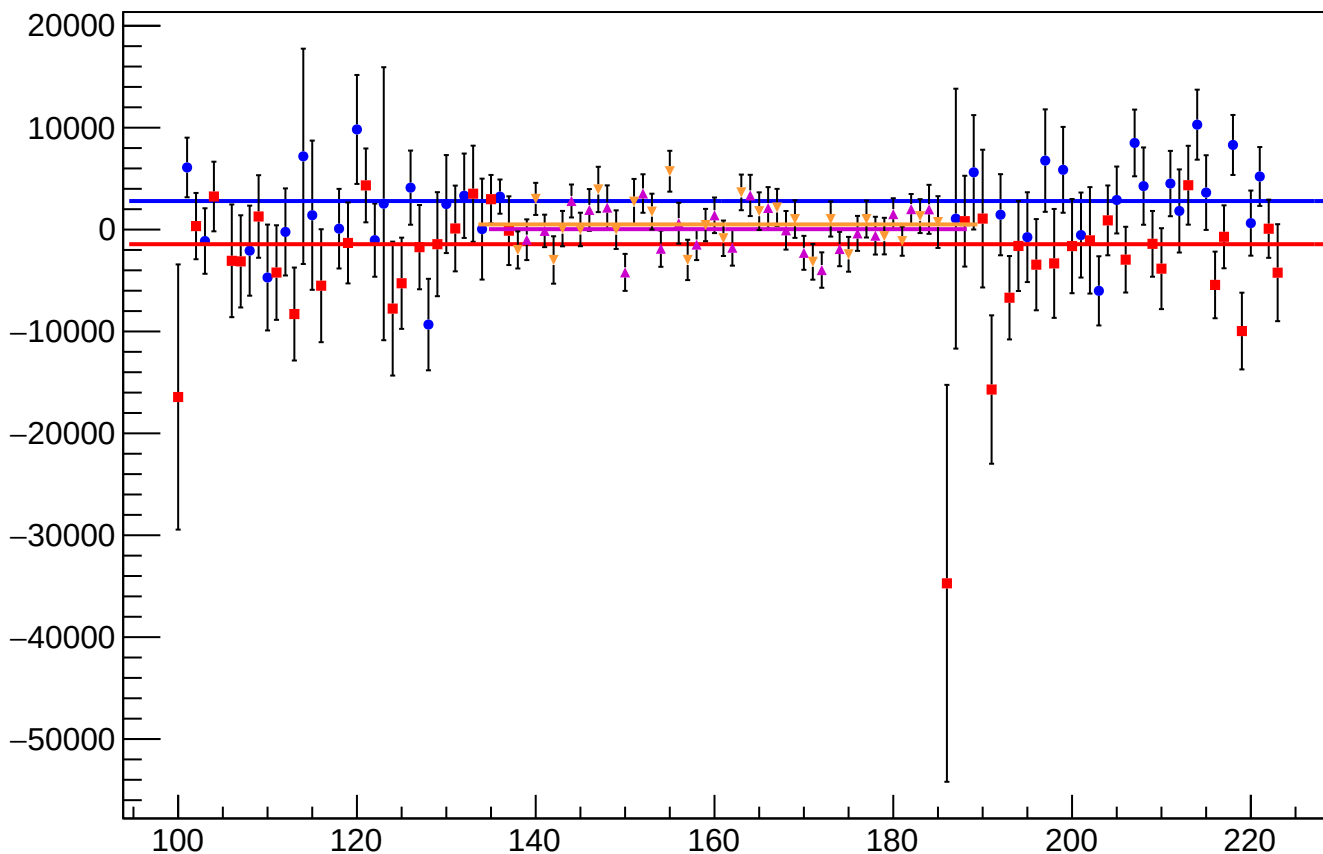
Right: 2790.604 $\pm$ 0.321 χ^2 /NDF: 5079945.6/73

In: 1840.533 $\pm$ 0.226 χ^2 /NDF: 7981116.7/57

Out: 1835.326 $\pm$ 0.222 χ^2 /NDF: 9511713.5/63

All: 1837.883 $\pm$ 0.158 χ^2 /NDF: 17493101.0/120

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2799.522+/-633.945 χ^2/NDF : 40.5/34

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -1435.391+/-652.731 χ^2/NDF : 36.1/38

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

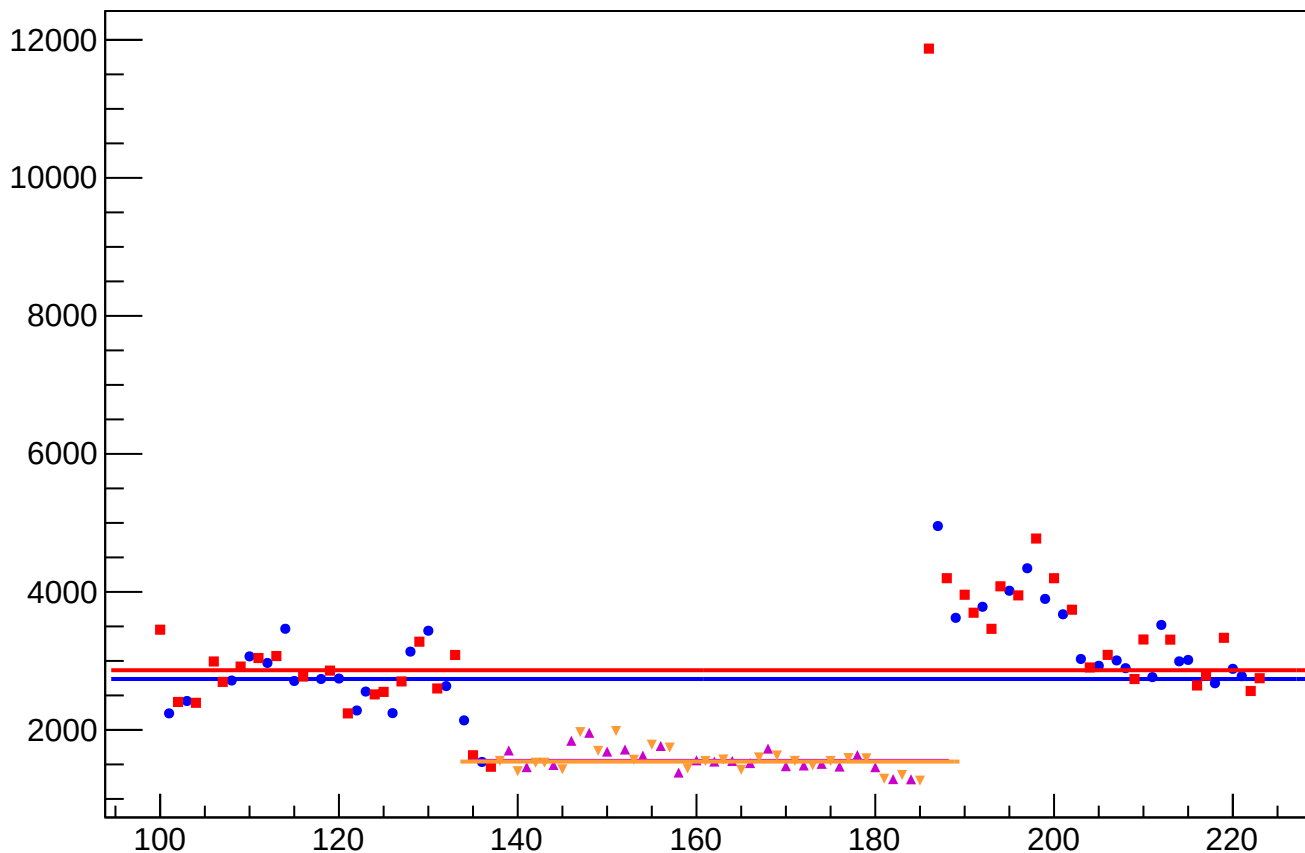
Right: 743.885+/-454.763 χ^2/NDF : 98.3/73

In: 750.444+/-321.648 χ^2/NDF : 88.1/57

Out: 52.451+/-316.020 χ^2/NDF : 78.3/63

All: 395.287+/-225.424 χ^2/NDF : 168.8/121

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2737.767 $\pm$ 0.448 χ^2 /NDF: 2299254.3/34

Left Out: 1541.258 $\pm$ 0.255 χ^2 /NDF: 382045.4/24

Right Out: 2865.172 $\pm$ 0.462 χ^2 /NDF: 2681628.7/38

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

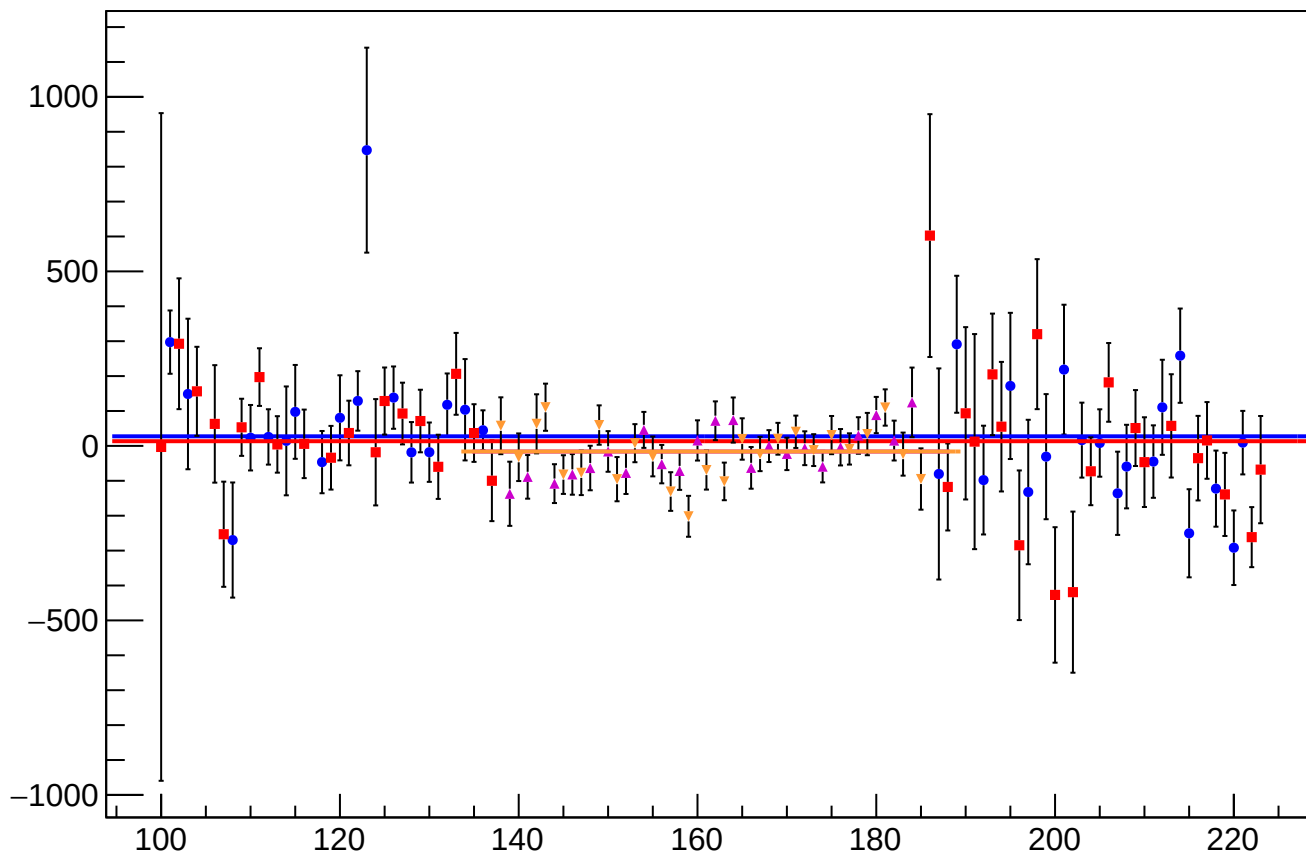
Right: 2799.610 $\pm$ 0.322 χ^2 /NDF: 5020093.6/73

In: 1856.557 $\pm$ 0.227 χ^2 /NDF: 7842287.5/57

Out: 1851.586 $\pm$ 0.223 χ^2 /NDF: 9362816.9/63

All: 1854.028 $\pm$ 0.159 χ^2 /NDF: 17205347.4/120

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 27.433 ± 18.760 $\chi^2/\text{NDF}: 53.0/34$

Left Out: -16.049 ± 11.340 $\chi^2/\text{NDF}: 39.7/24$

Right Out: 13.439 ± 18.898 $\chi^2/\text{NDF}: 53.0/38$

Left In: -16.162 ± 11.649 $\chi^2/\text{NDF}: 25.2/22$

Left: -16.104 ± 8.126 $\chi^2/\text{NDF}: 64.9/47$

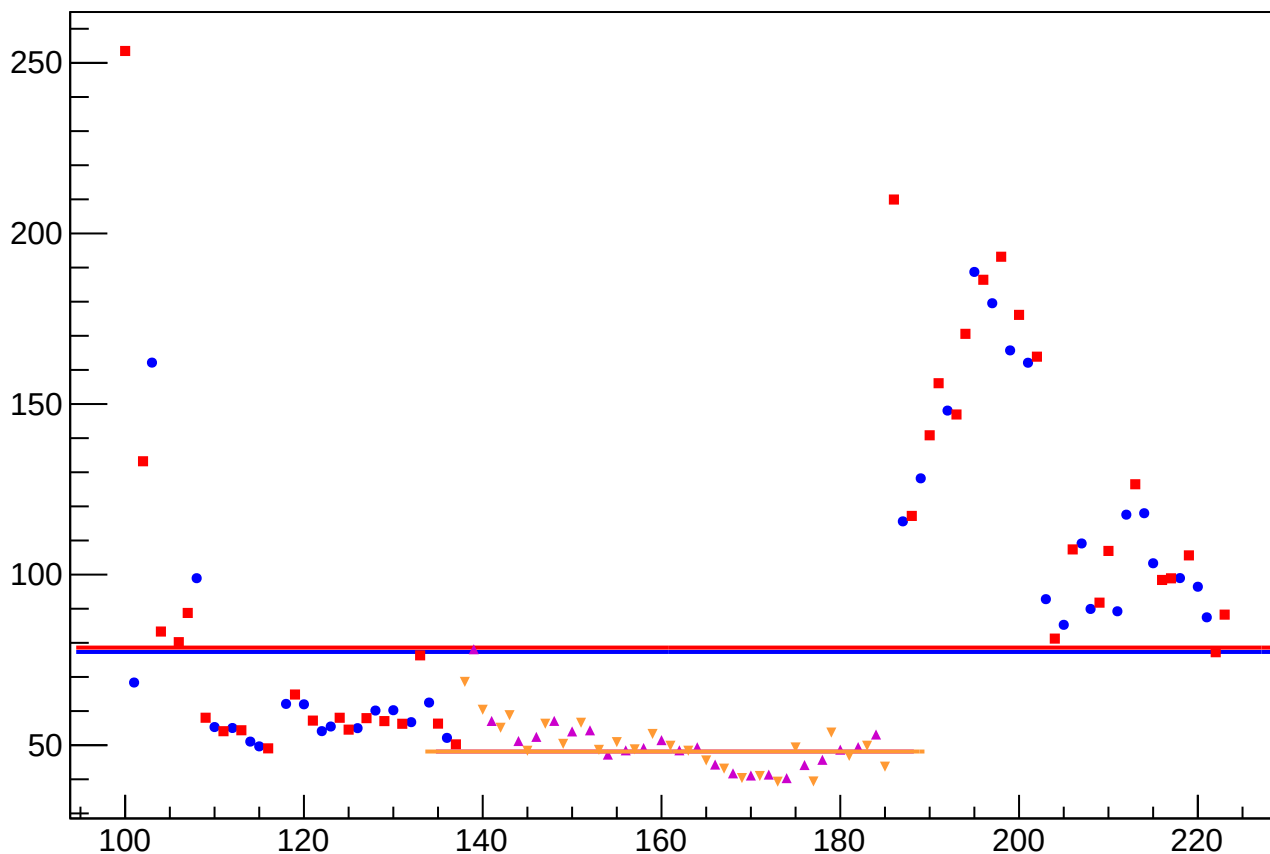
Right: 20.487 ± 13.314 $\chi^2/\text{NDF}: 106.3/73$

In: -4.029 ± 9.897 $\chi^2/\text{NDF}: 82.2/57$

Out: -8.243 ± 9.724 $\chi^2/\text{NDF}: 94.5/63$

All: -6.173 ± 6.936 $\chi^2/\text{NDF}: 176.7/121$

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 77.327 $\pm$ 0.013 χ^2 /NDF: 5210994.4/34

Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24

Right Out: 78.612 $\pm$ 0.013 χ^2 /NDF: 5917738.4/38

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

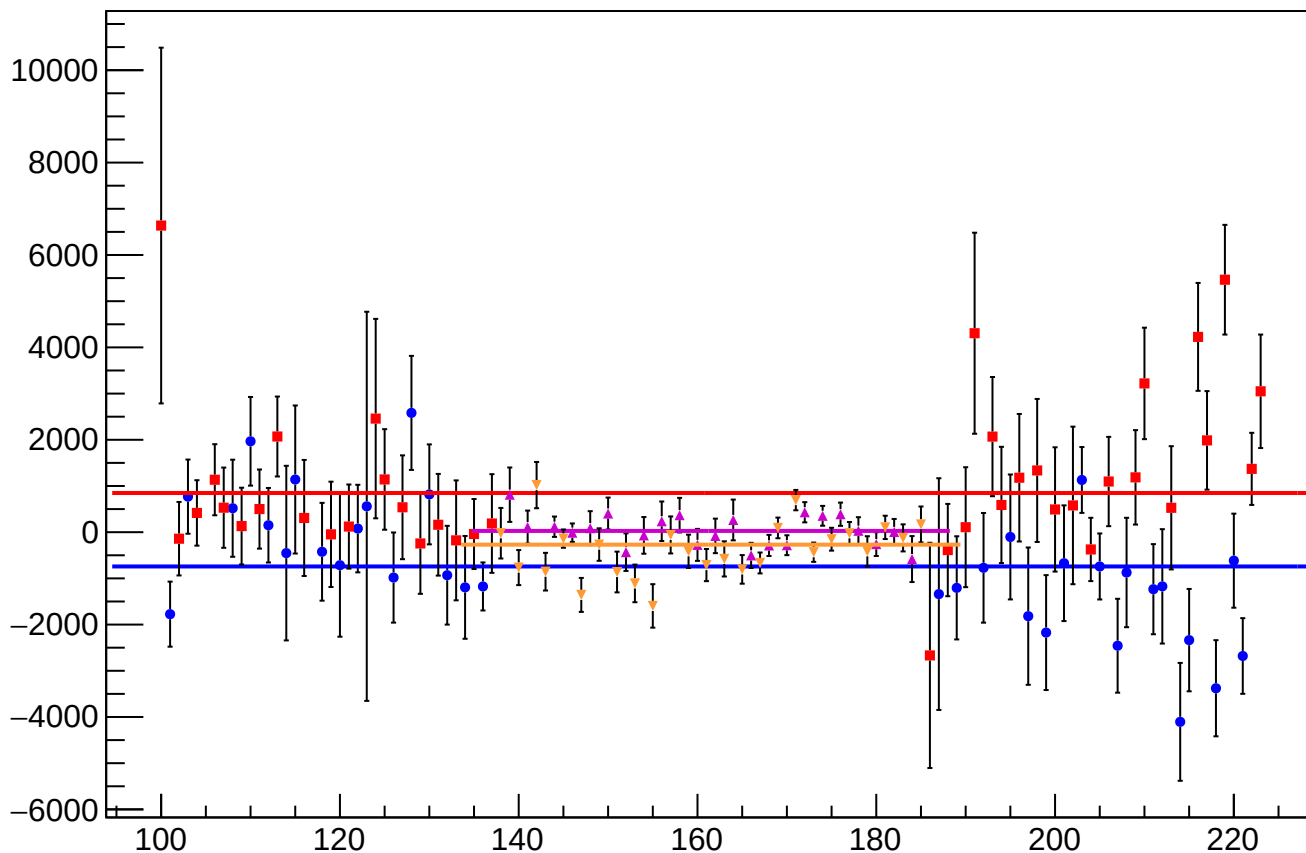
Right: 77.965 $\pm$ 0.009 χ^2 /NDF: 11133395.9/73

In: 56.262 $\pm$ 0.007 χ^2 /NDF: 9279978.9/57

Out: 56.208 $\pm$ 0.007 χ^2 /NDF: 10396228.6/63

All: 56.234 $\pm$ 0.005 χ^2 /NDF: 19676237.7/121

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -741.876 $\pm$ 170.820 χ^2 /NDF: 62.5/34

Left Out: -270.214 $\pm$ 60.177 χ^2 /NDF:70.1/24

Right Out: 848.284 $\pm$ 168.490 χ^2 /NDF: 56.5/38

Left In: 27.271 $\pm$ 60.430 χ^2 /NDF:25.1/22

Left: -122.095 $\pm$ 42.641 χ^2 /NDF: 107.3/47

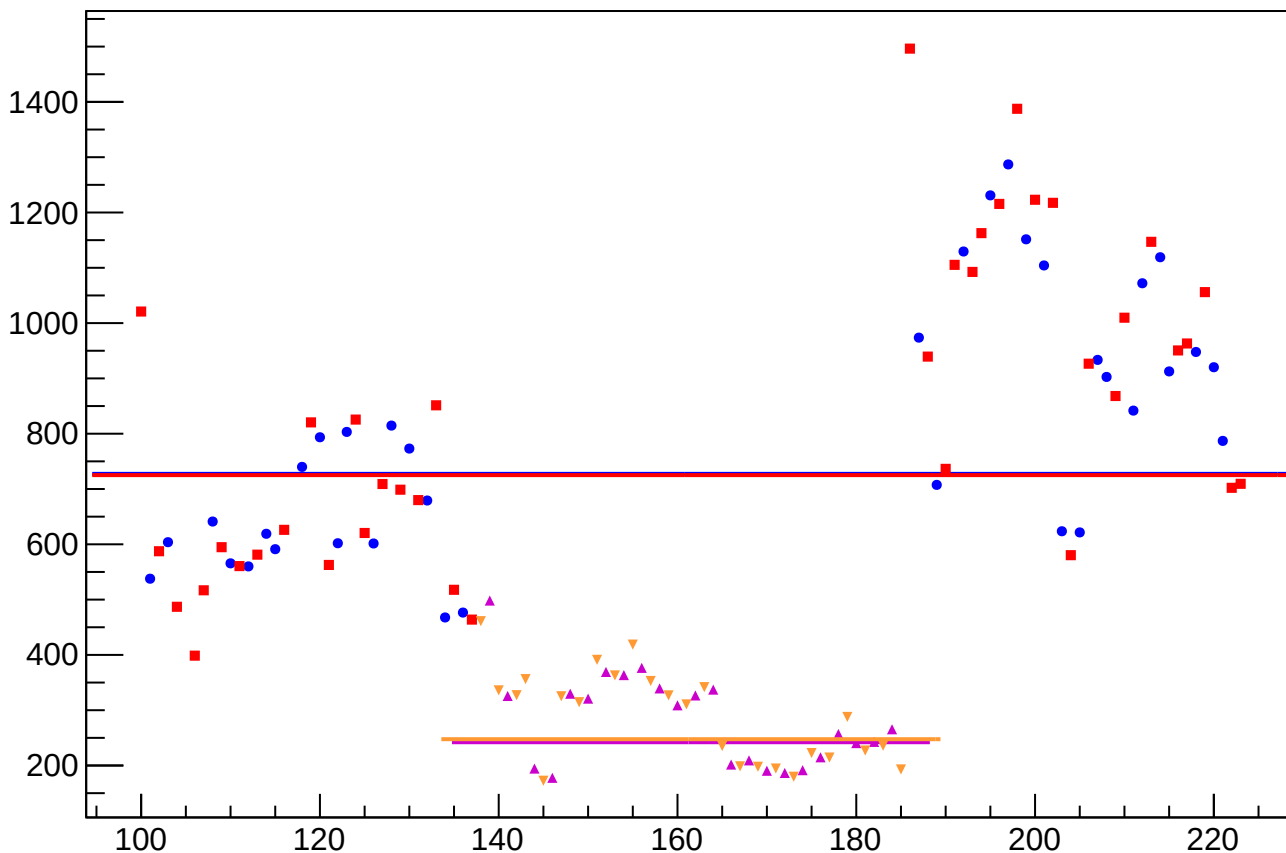
Right: 64.124 $\pm$ 119.956 χ^2 /NDF: 162.9/73

In: -58.281 $\pm$ 56.970 χ^2 /NDF:105.5/57

Out: -143.677 $\pm$ 56.671 χ^2 /NDF:165.7/63

All: -101.204 $\pm$ 40.178 χ^2 /NDF: 272.3/121

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 727.370 ± 0.121 $\chi^2/\text{NDF}: 3070905.3/34$

Left Out: 247.570 ± 0.043 $\chi^2/\text{NDF}: 2780931.0/24$

Right Out: 725.123 ± 0.119 $\chi^2/\text{NDF}: 4032776.5/38$

Left In: 242.117 ± 0.043 $\chi^2/\text{NDF}: 2466108.9/22$

Left: 244.855 ± 0.030 $\chi^2/\text{NDF}: 5255218.1/47$

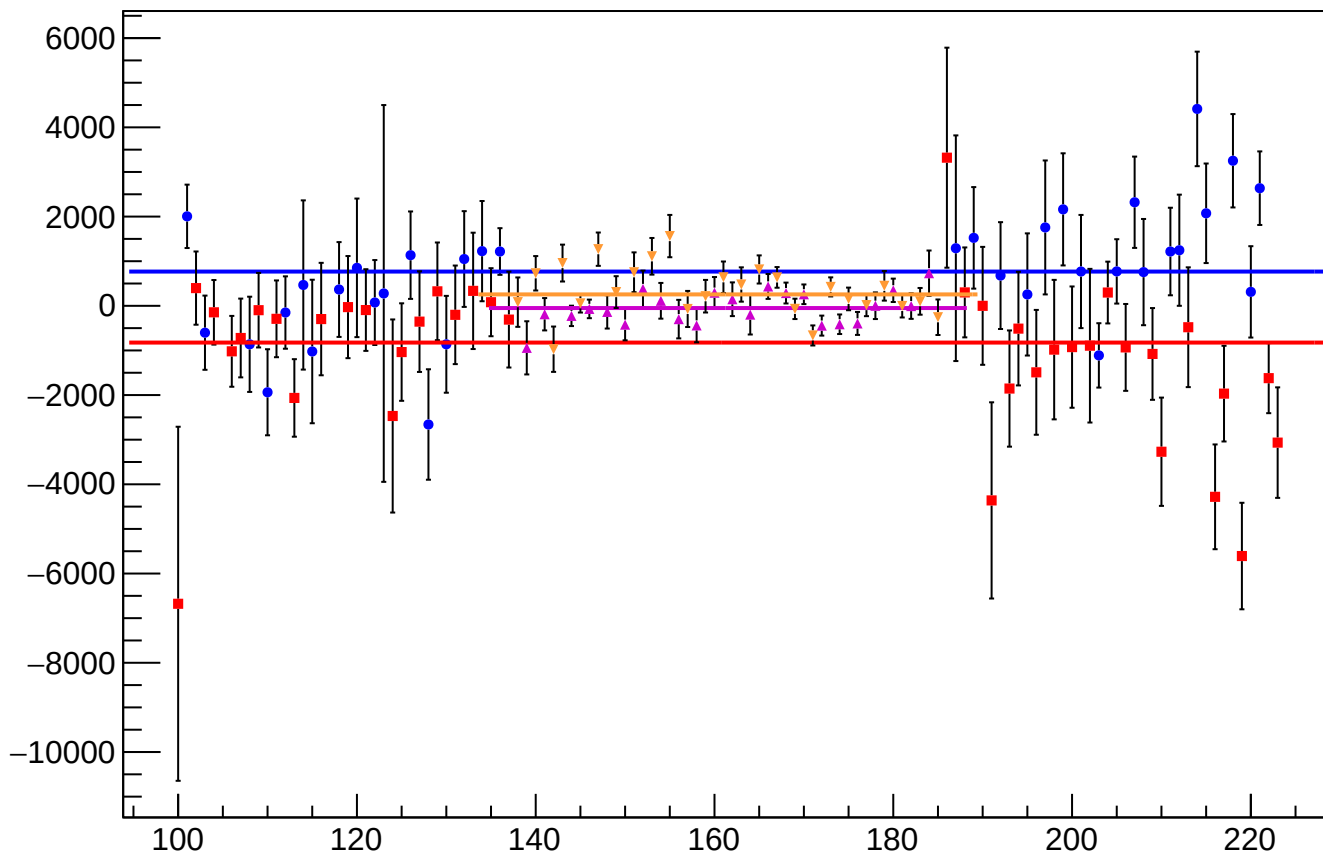
Right: 726.232 ± 0.085 $\chi^2/\text{NDF}: 7103857.2/73$

In: 296.091 ± 0.040 $\chi^2/\text{NDF}: 19881314.3/57$

Out: 301.596 ± 0.040 $\chi^2/\text{NDF}: 21062748.8/63$

All: 298.858 ± 0.028 $\chi^2/\text{NDF}: 40953449.0/120$

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 767.771 $\pm$ 172.298 χ^2 /NDF: 62.4/34

Left Out: 255.995 $\pm$ 61.418 χ^2 /NDF: 63.6/24

Right Out: -823.607 $\pm$ 170.206 χ^2 /NDF: 59.4/38

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

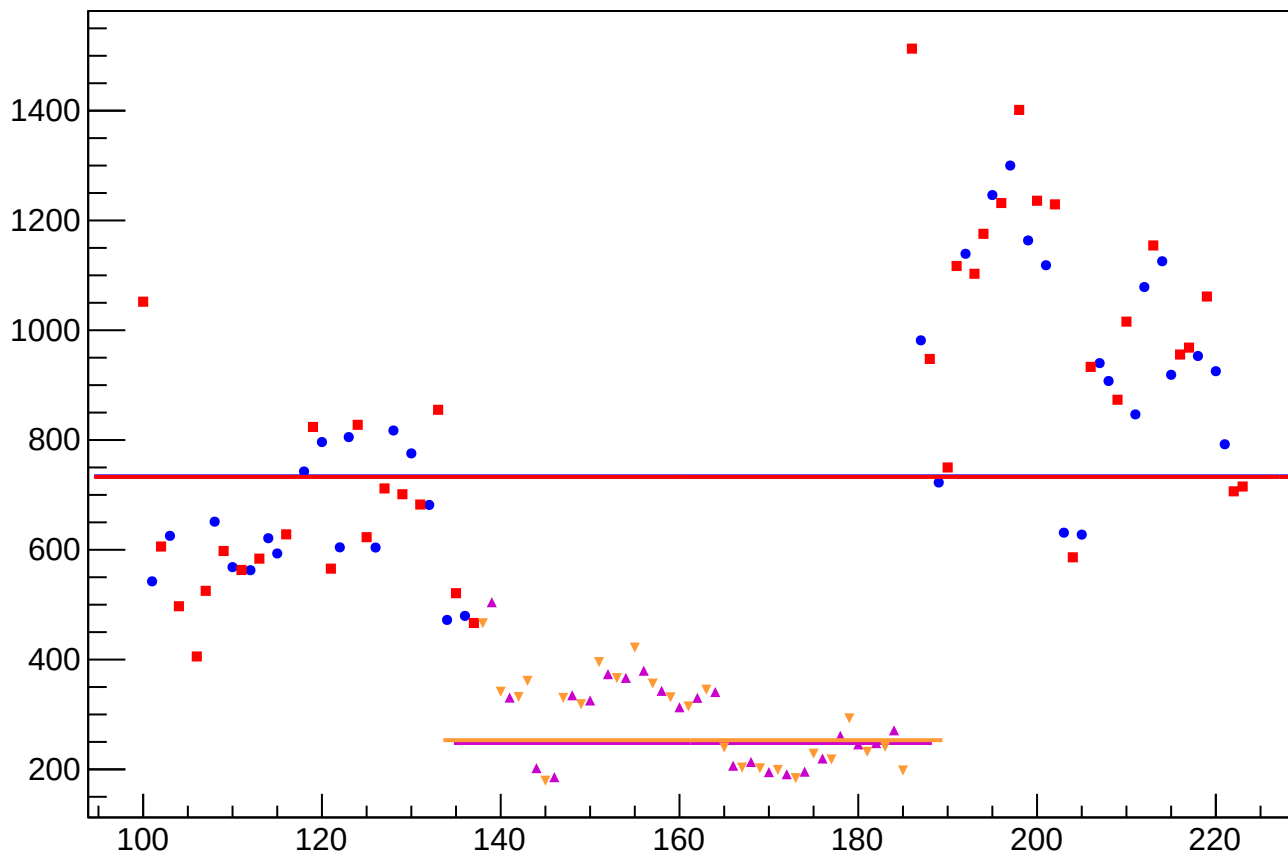
Right: -37.636 $\pm$ 121.087 χ^2 /NDF: 165.0/73

In: 43.314 $\pm$ 58.156 χ^2 /NDF: 109.9/57

Out: 131.615 $\pm$ 57.772 χ^2 /NDF: 158.6/63

All: 87.757 $\pm$ 40.986 χ^2 /NDF: 269.7/121

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 733.789 $\pm$ 0.122 χ^2 /NDF: 3063171.2/34

Left Out: 253.137 $\pm$ 0.043 χ^2 /NDF: 2665975.8/24

Right Out: 732.787 $\pm$ 0.120 χ^2 /NDF: 3987511.1/38

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

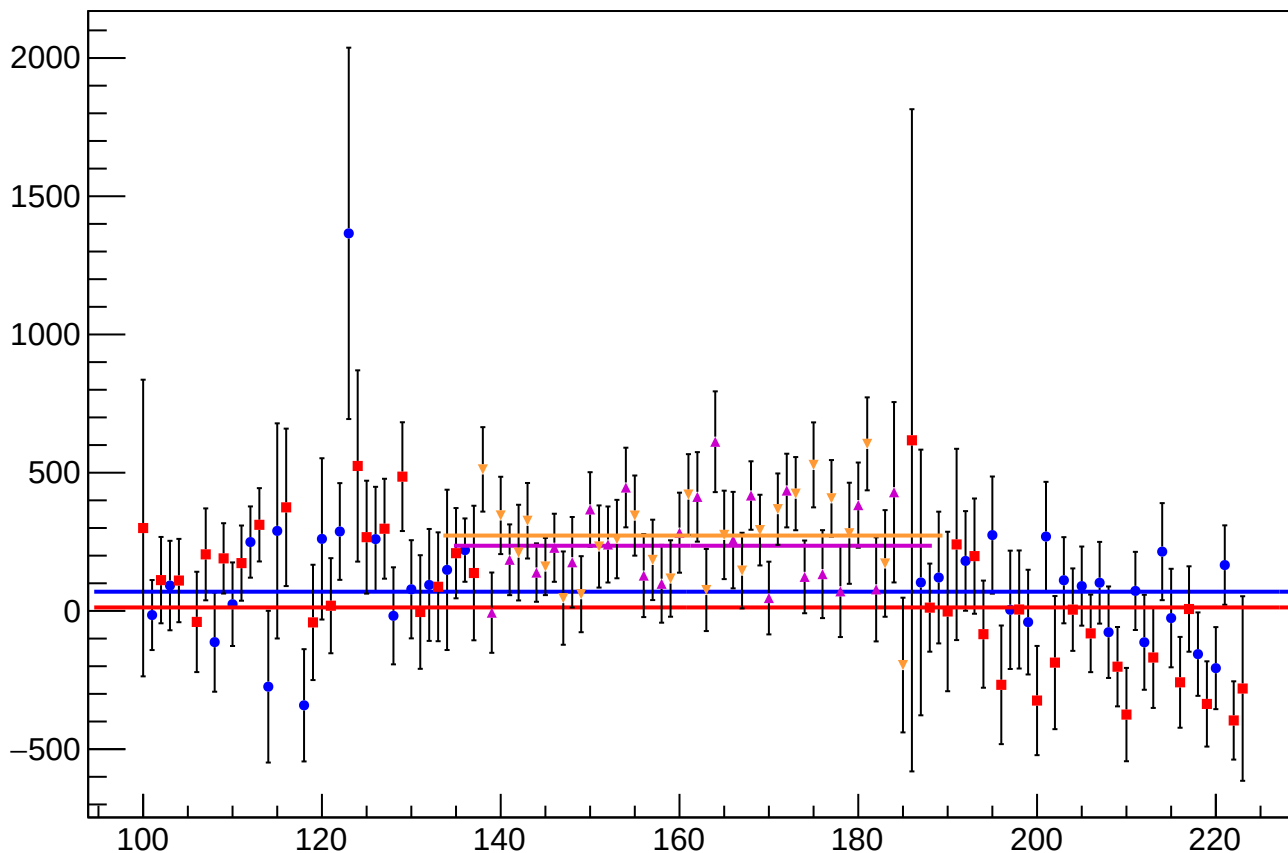
Right: 733.282 $\pm$ 0.086 χ^2 /NDF: 7050716.5/73

In: 303.405 $\pm$ 0.041 χ^2 /NDF: 19490028.0/57

Out: 308.397 $\pm$ 0.041 χ^2 /NDF: 20706467.7/63

All: 305.917 $\pm$ 0.029 χ^2 /NDF: 40203913.5/12

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 69.543+/-29.627 χ^2/NDF : 30.3/34

Left Out: 272.684+/-29.221 χ^2/NDF :27.4/24

Right Out: 12.657+/-29.165 χ^2/NDF : 59.4/38

Left In: 235.801+/-30.232 χ^2/NDF :24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

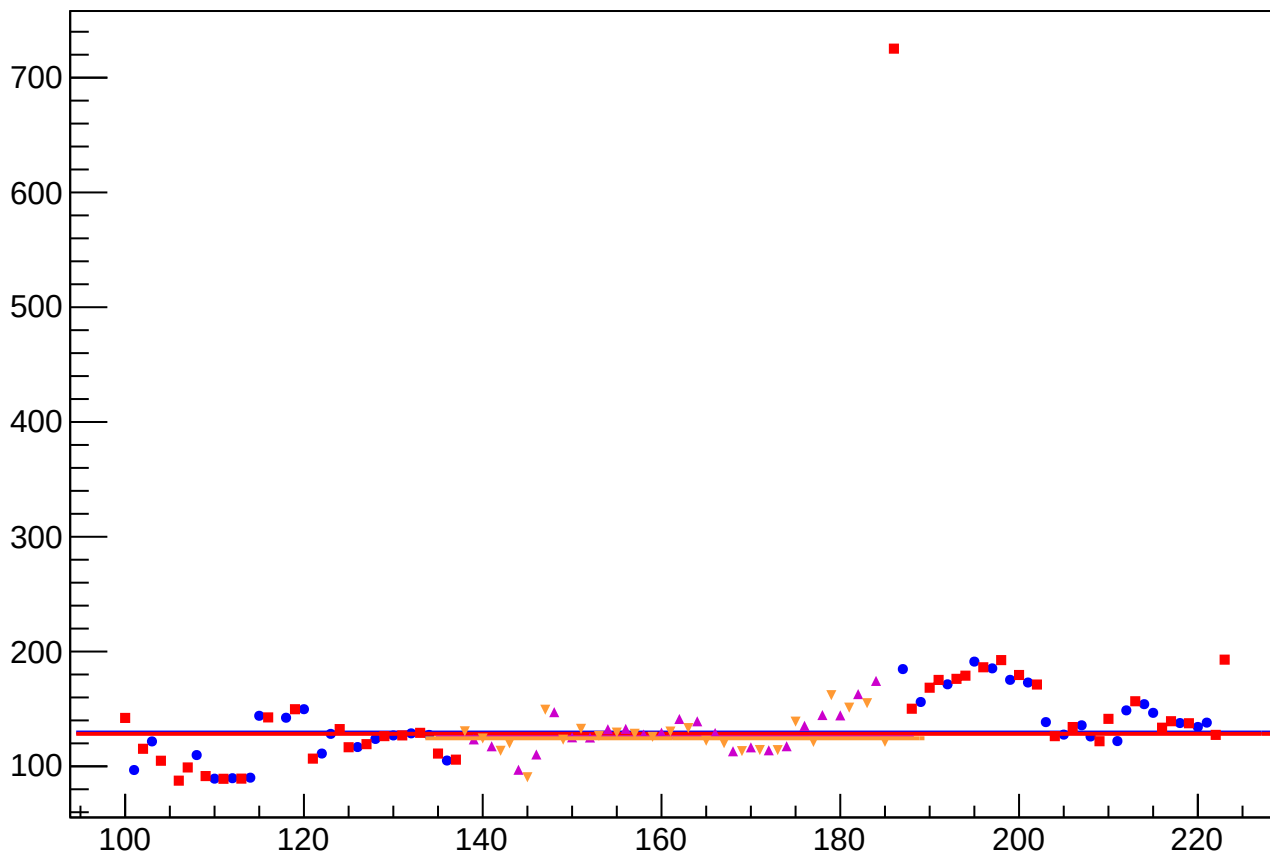
Right: 40.652+/-20.784 χ^2/NDF : 91.6/73

In: 150.993+/-21.160 χ^2/NDF :70.3/57

Out: 142.419+/-20.643 χ^2/NDF :126.5/63

All: 146.600+/-14.776 χ^2/NDF : 196.9/121

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 129.418 $\pm$ 0.021 χ^2 /NDF: 1476517.5/34

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 128.320 $\pm$ 0.021 χ^2 /NDF: 2383471.6/38

Left In: 125.205 $\pm$ 0.021 χ^2 /NDF: 501388.2/22

Left: 124.804 $\pm$ 0.015 χ^2 /NDF: 1041801.9/47

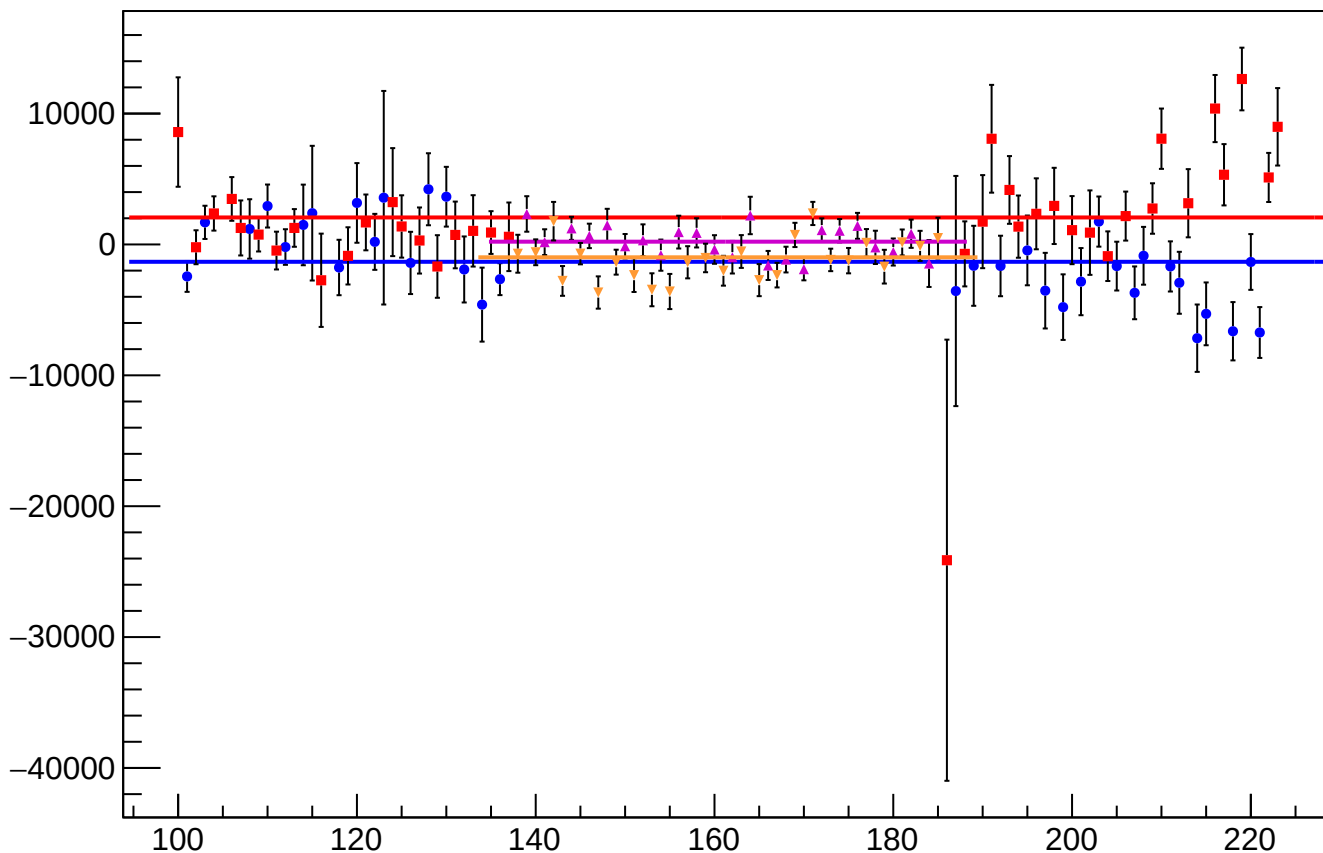
Right: 128.861 $\pm$ 0.015 χ^2 /NDF: 3861384.4/73

In: 127.354 $\pm$ 0.015 χ^2 /NDF: 1997721.2/57

Out: 126.378 $\pm$ 0.015 χ^2 /NDF: 2940973.8/63

All: 126.854 $\pm$ 0.010 χ^2 /NDF: 4940875.2/123

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -1325.739+/-354.380 χ^2/NDF : 59.9/34

Left Out: -982.839+/-218.021 χ^2/NDF : 47.2/24

Right Out: 2062.305+/-343.652 χ^2/NDF : 75.4/38

Left In: 211.420+/-223.296 χ^2/NDF : 25.7/22

Left: -399.983+/-155.996 χ^2/NDF : 87.5/47

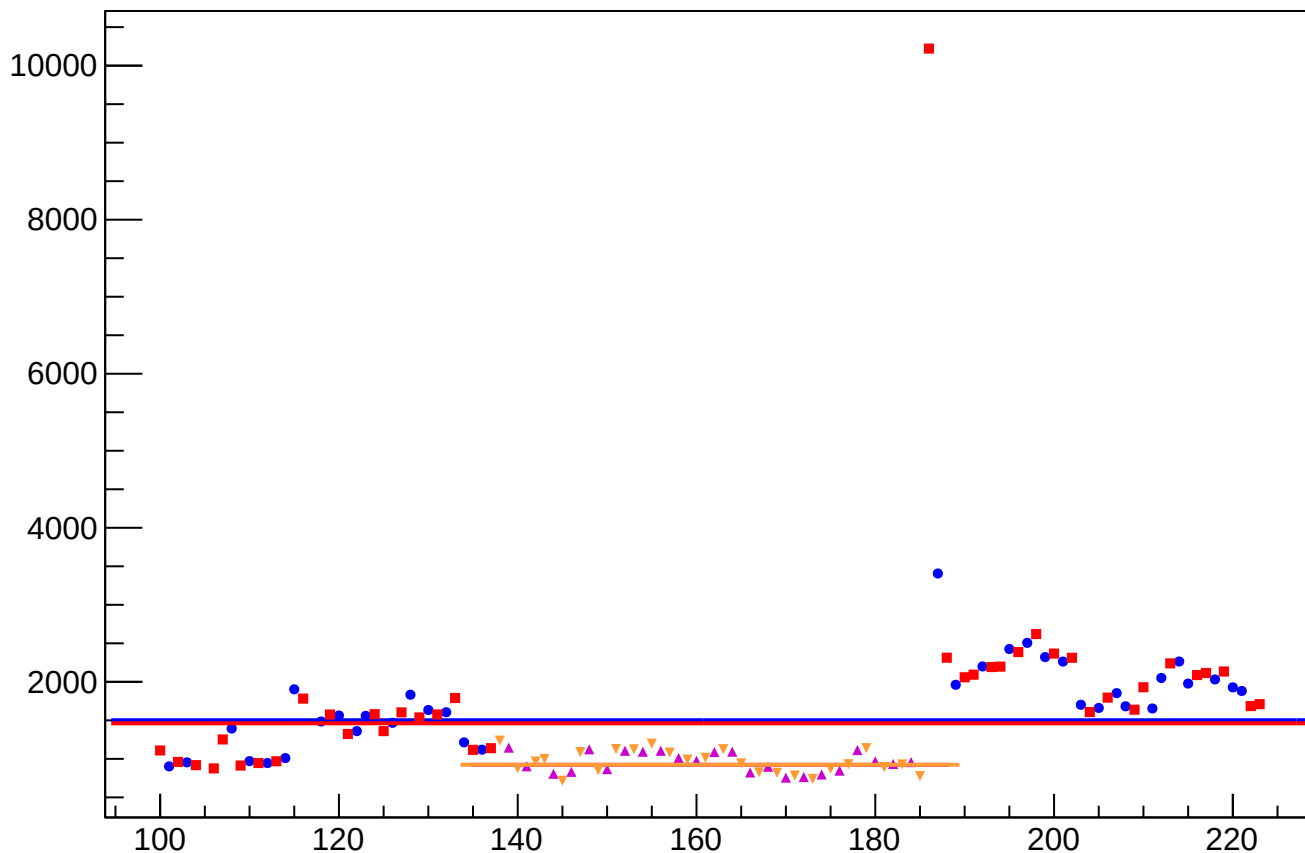
Right: 420.341+/-246.704 χ^2/NDF : 182.4/73

In: -225.435+/-188.920 χ^2/NDF : 99.0/57

Out: -108.930+/-184.098 χ^2/NDF : 178.6/63

All: -165.676+/-131.849 χ^2/NDF : 277.8/121

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1501.296+/-0.251 χ^2/NDF : 3715496.3/34

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1461.939+/-0.243 χ^2/NDF : 4959284.7/38

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

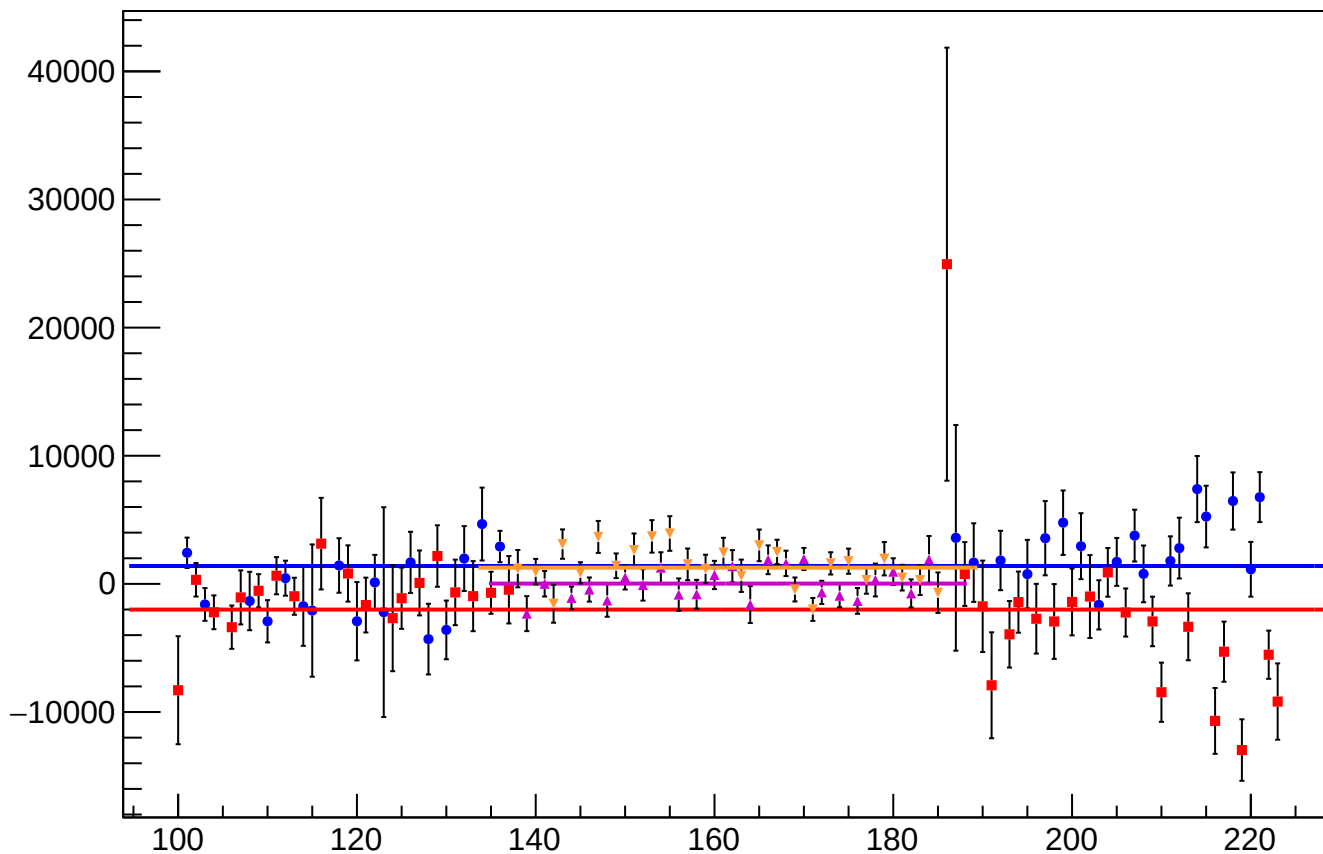
Right: 1481.013+/-0.174 χ^2/NDF : 8687493.8/73

In: 1086.809+/-0.134 χ^2/NDF : 8172458.5/57

Out: 1078.085+/-0.130 χ^2/NDF : 9301702.7/63

All: 1082.335+/-0.093 χ^2/NDF : 17476348.8/127

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 1395.509 $\pm$ 355.821 χ^2 /NDF: 59.0/34

Left Out: 1267.344 $\pm$ 220.133 χ^2 /NDF: 44.9/24

Right Out: -2005.149 $\pm$ 345.204 χ^2 /NDF: 81.4/38

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

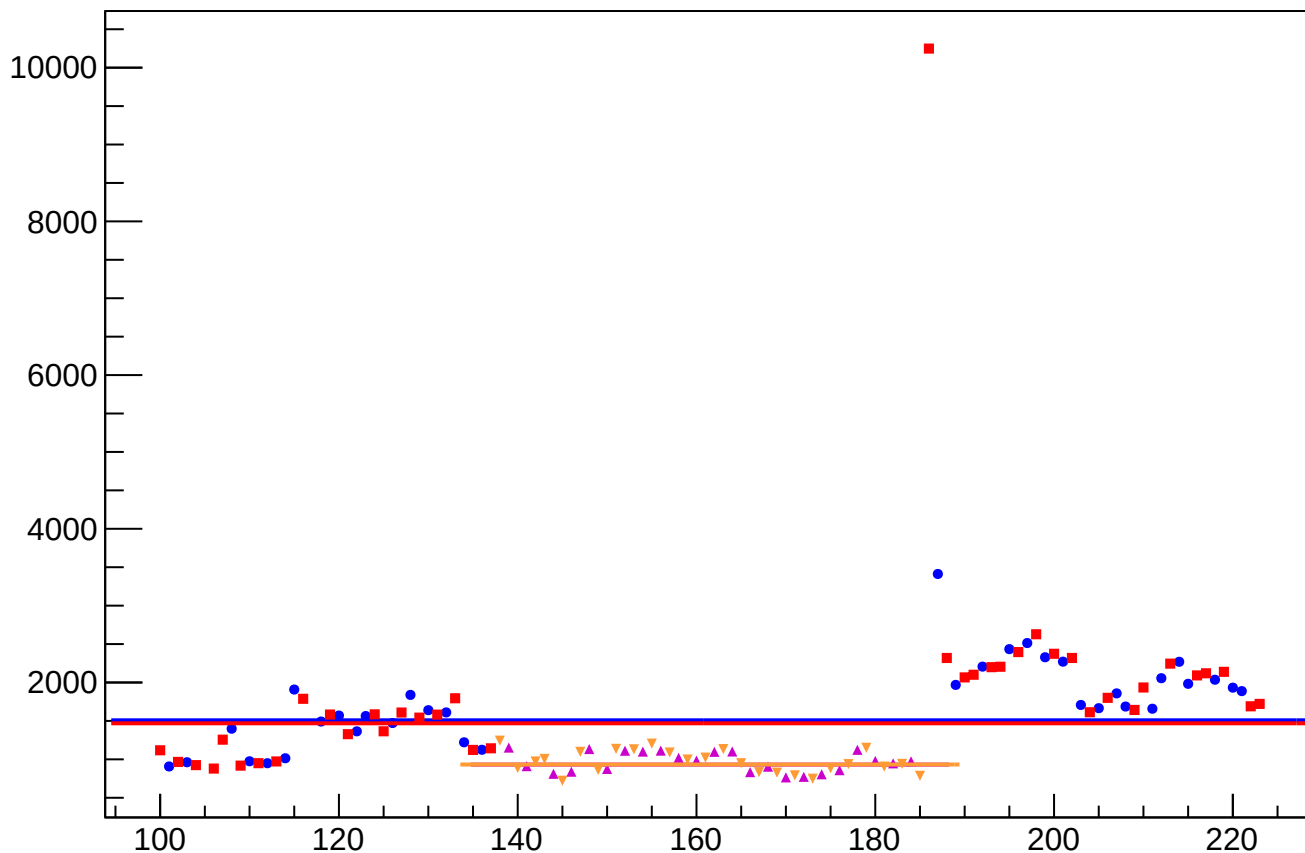
Right: -356.310 $\pm$ 247.764 χ^2 /NDF: 187.5/73

In: 416.605 $\pm$ 190.465 χ^2 /NDF: 96.8/57

Out: 321.297 $\pm$ 185.606 χ^2 /NDF: 190.2/63

All: 367.720 $\pm$ 132.928 χ^2 /NDF: 287.1/121

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1507.986+/-0.252 χ^2/NDF : 3689315.0/34

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1469.050+/-0.244 χ^2/NDF : 4926964.8/38

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

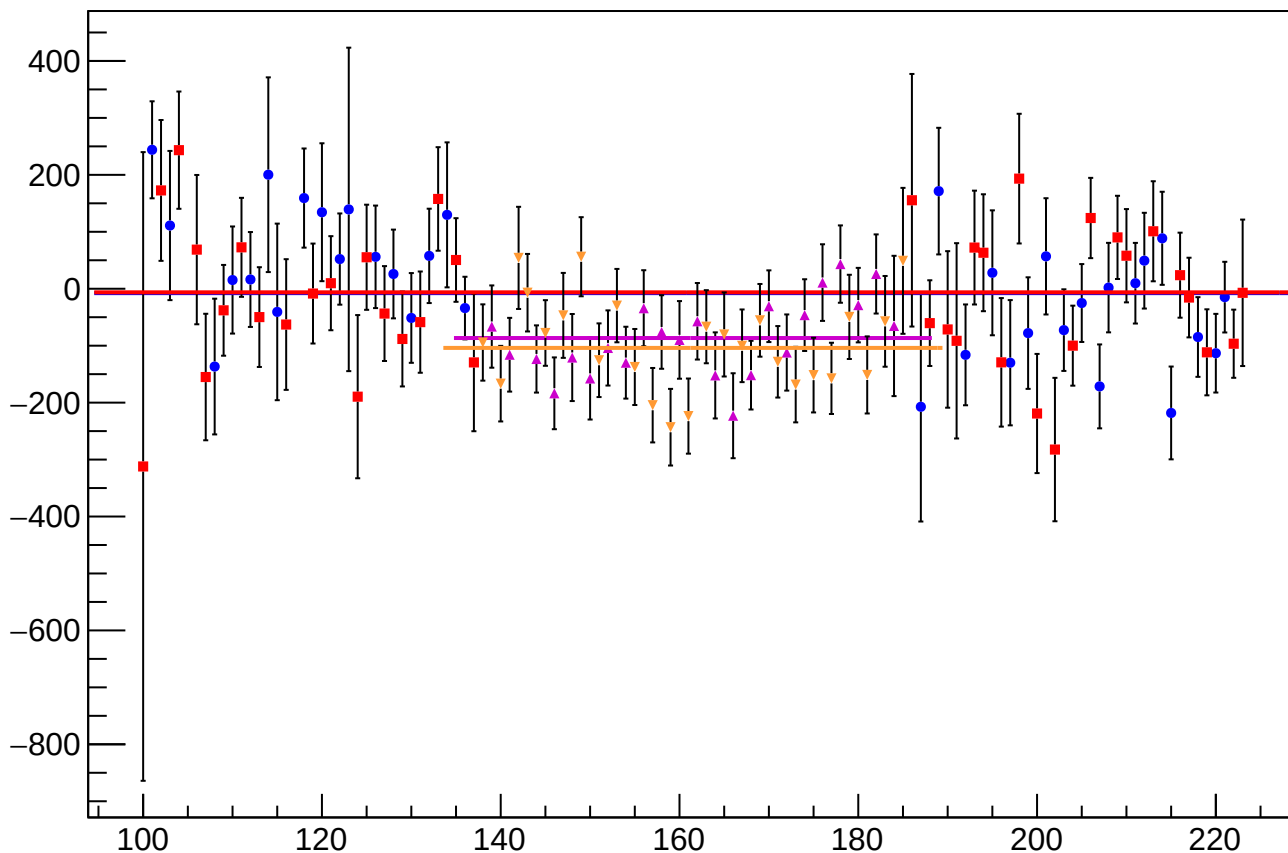
Right: 1487.929+/-0.175 χ^2/NDF : 8628616.6/73

In: 1096.675+/-0.135 χ^2/NDF : 8059449.9/57

Out: 1087.799+/-0.131 χ^2/NDF : 9188277.0/63

All: 1092.122+/-0.094 χ^2/NDF : 17249954.7/127

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: -7.703 ± 14.706 $\chi^2/\text{NDF}: 46.6/34$

Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$

Right Out: -6.301 ± 14.764 $\chi^2/\text{NDF}: 49.6/38$

Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$

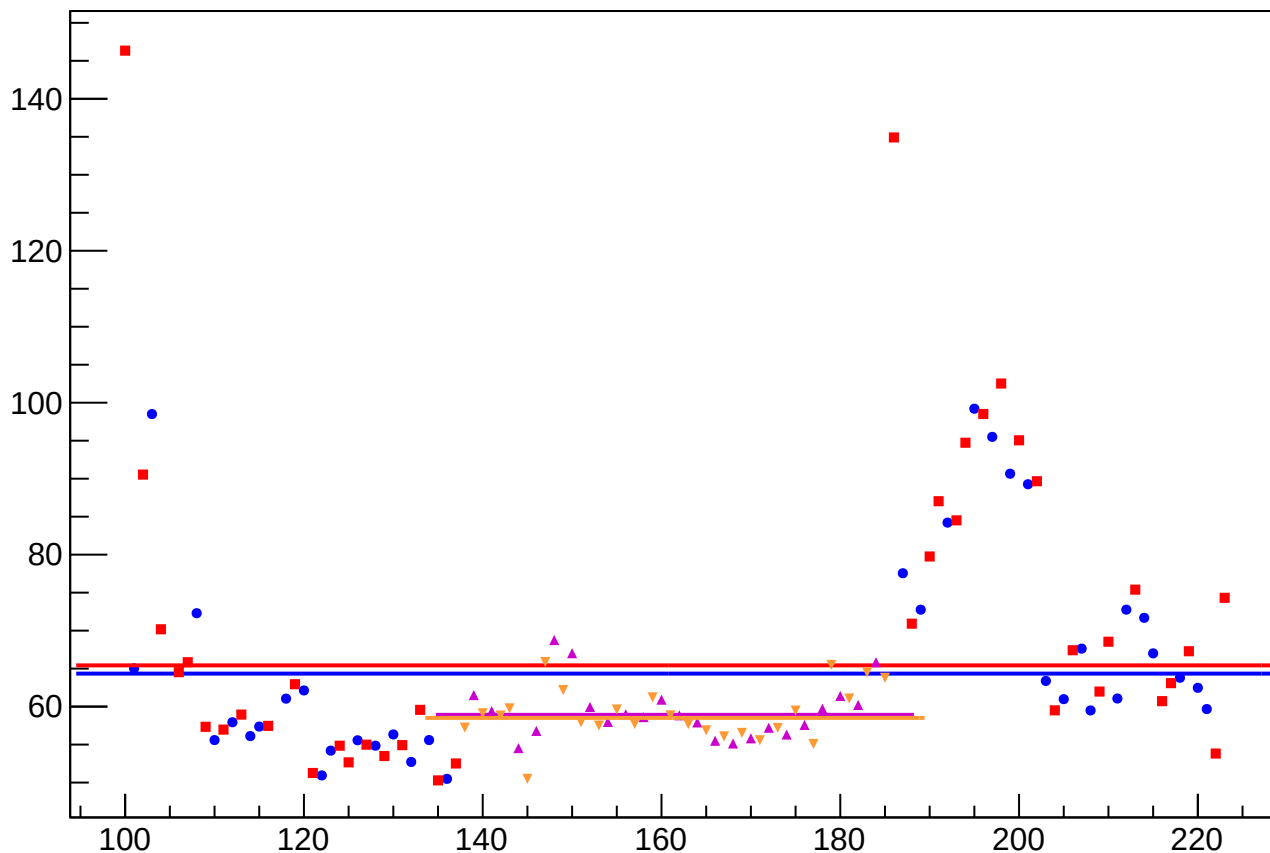
Right: -7.005 ± 10.419 $\chi^2/\text{NDF}: 96.2/73$

In: -48.724 ± 10.185 $\chi^2/\text{NDF}: 82.9/57$

Out: -58.947 ± 10.019 $\chi^2/\text{NDF}: 103.2/63$

All: -53.919 ± 7.143 $\chi^2/\text{NDF}: 186.6/121$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.342 ± 0.010 $\chi^2/\text{NDF}: 1309380.7/34$

Left Out: 58.513 ± 0.010 $\chi^2/\text{NDF}: 123221.6/24$

Right Out: 65.427 ± 0.010 $\chi^2/\text{NDF}: 1776023.6/38$

Left In: 58.913 ± 0.010 $\chi^2/\text{NDF}: 109968.0/22$

Left: 58.706 ± 0.007 $\chi^2/\text{NDF}: 234021.7/47$

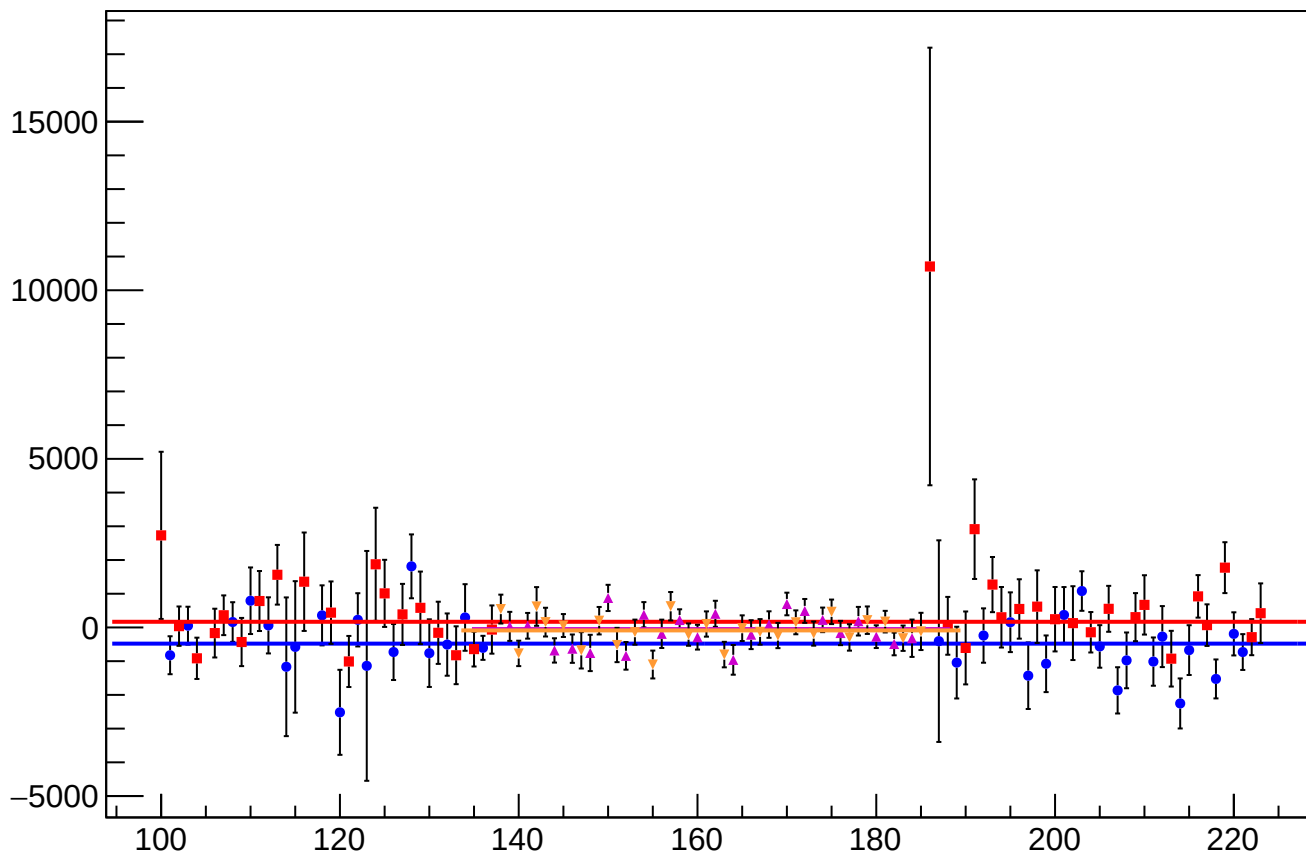
Right: 64.882 ± 0.007 $\chi^2/\text{NDF}: 3090829.3/73$

In: 61.517 ± 0.007 $\chi^2/\text{NDF}: 1561154.3/57$

Out: 61.698 ± 0.007 $\chi^2/\text{NDF}: 2135875.0/63$

All: 61.609 ± 0.005 $\chi^2/\text{NDF}: 3697347.3/121$

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -479.938 ± 127.068 χ^2/NDF : 40.8/34

Left Out: -87.459 ± 78.556 χ^2/NDF : 27.7/24

Right Out: 168.127 ± 128.044 χ^2/NDF : 35.7/38

Left In: -48.742 ± 80.548 χ^2/NDF : 35.3/22

Left: -68.585 ± 56.239 χ^2/NDF : 63.2/47

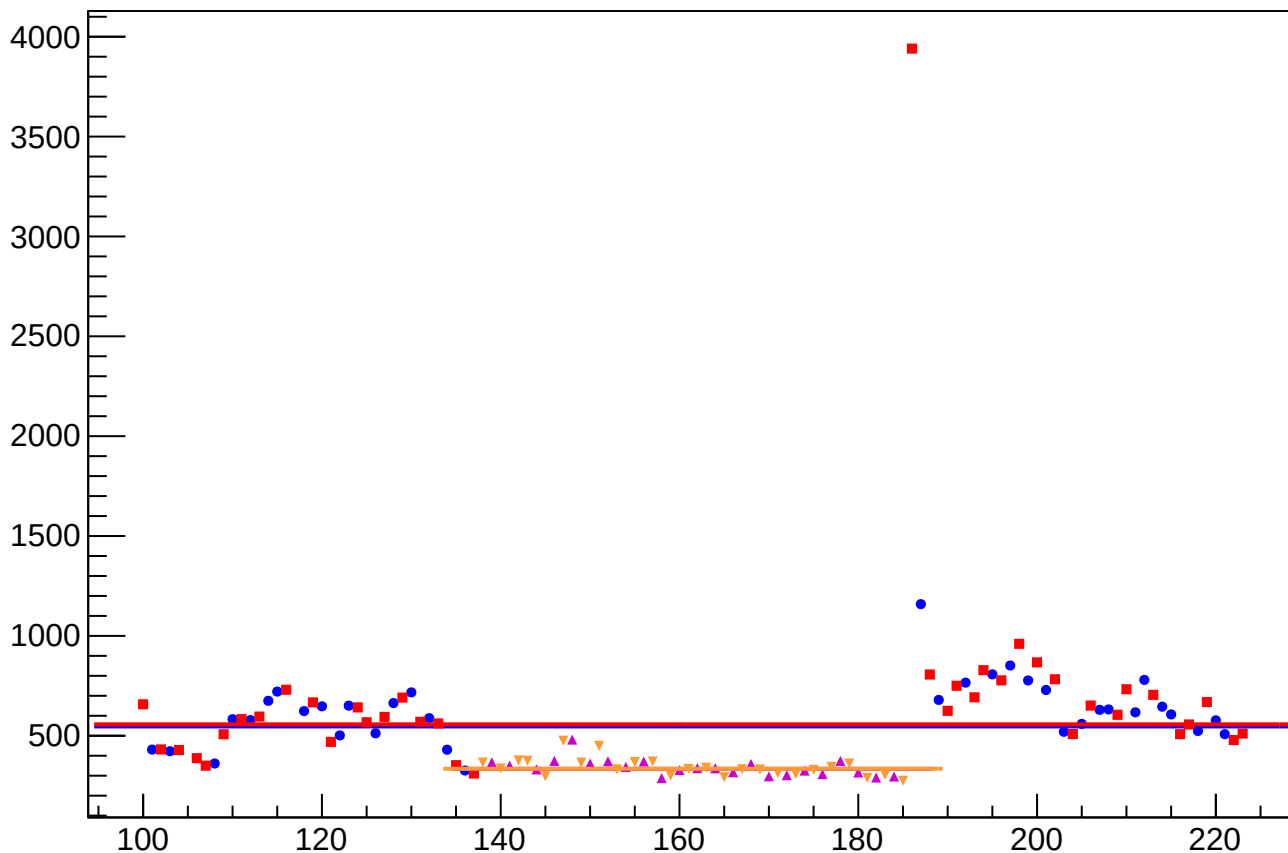
Right: -158.386 ± 90.194 χ^2/NDF : 89.4/73

In: -172.342 ± 68.031 χ^2/NDF : 84.3/57

Out: -17.565 ± 66.959 χ^2/NDF : 66.4/63

All: -93.724 ± 47.722 χ^2/NDF : 153.3/121

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 546.597 $\pm$ 0.090 χ^2 /NDF: 2488087.9/34

Left Out: 334.749 $\pm$ 0.056 χ^2 /NDF: 491370.4/24

Right Out: 557.190 $\pm$ 0.091 χ^2 /NDF: 3234442.1/38

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

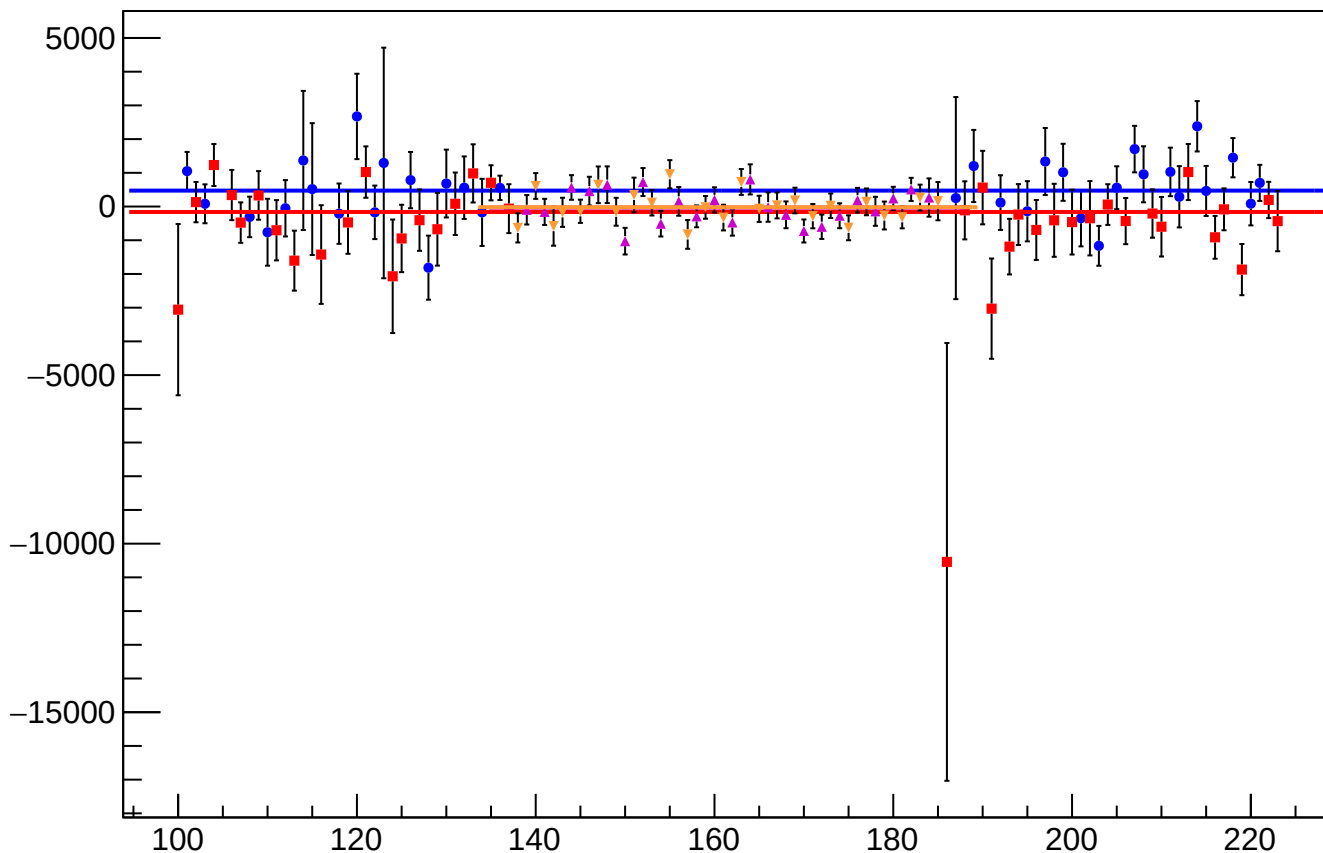
Right: 551.853 $\pm$ 0.064 χ^2 /NDF: 5729427.2/73

In: 395.044 $\pm$ 0.048 χ^2 /NDF: 6873528.1/57

Out: 395.579 $\pm$ 0.047 χ^2 /NDF: 8111131.1/63

All: 395.316 $\pm$ 0.034 χ^2 /NDF: 14984721.9/120

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 472.360 ± 128.219 $\chi^2/\text{NDF}: 41.1/34$

Left Out: -20.895 ± 79.812 $\chi^2/\text{NDF}: 27.2/24$

Right Out: -160.881 ± 129.250 $\chi^2/\text{NDF}: 39.2/38$

Left In: -31.800 ± 81.839 $\chi^2/\text{NDF}: 34.0/22$

Left: -26.211 ± 57.139 $\chi^2/\text{NDF}: 61.3/47$

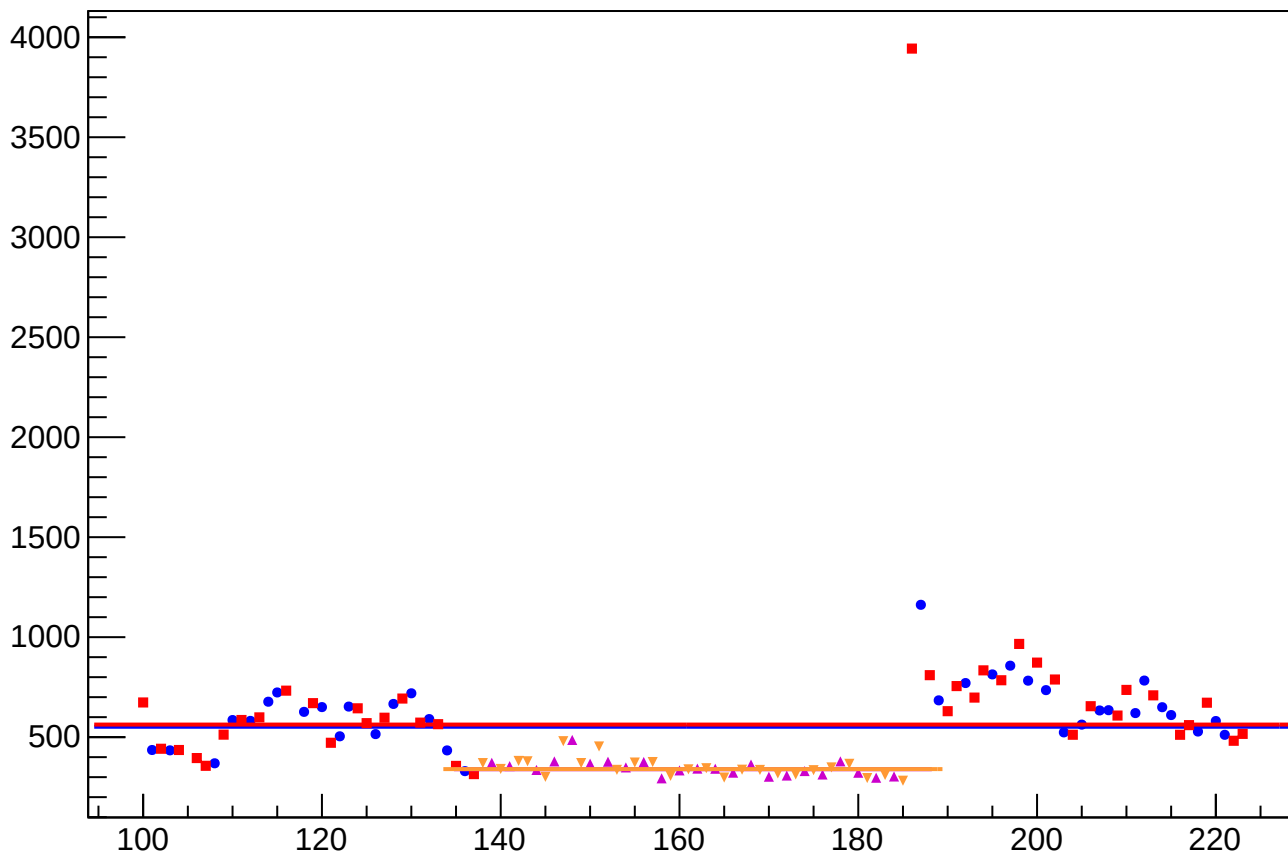
Right: 158.277 ± 91.027 $\chi^2/\text{NDF}: 92.4/73$

In: 114.140 ± 68.985 $\chi^2/\text{NDF}: 86.1/57$

Out: -59.538 ± 67.908 $\chi^2/\text{NDF}: 67.3/63$

All: 25.935 ± 48.395 $\chi^2/\text{NDF}: 156.6/121$

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 552.100+/-0.091 χ^2/NDF : 2419812.9/34

Left Out: 340.238+/-0.056 χ^2/NDF : 468863.6/24

Right Out: 562.920+/-0.091 χ^2/NDF : 3164536.7/38

Left In: 339.621+/-0.058 χ^2/NDF : 379808.1/22

Left: 339.937+/-0.040 χ^2/NDF : 848729.8/47

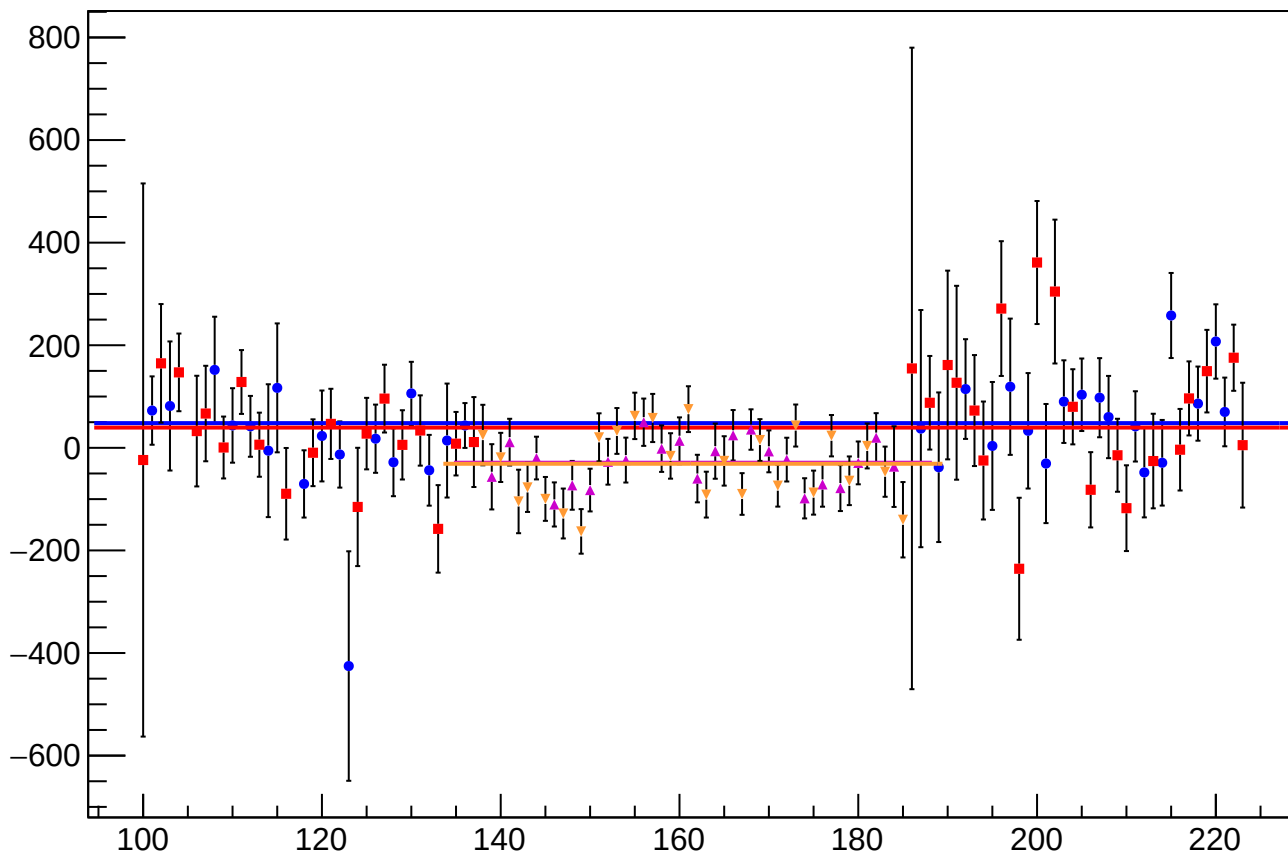
Right: 557.467+/-0.064 χ^2/NDF : 5591412.9/73

In: 401.128+/-0.049 χ^2/NDF : 6702120.8/57

Out: 401.708+/-0.048 χ^2/NDF : 7931221.4/63

All: 401.423+/-0.034 χ^2/NDF : 14633414.2/12

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 48.169+/-13.494 χ^2/NDF : 31.4/34

Left Out: -31.063+/-9.170 χ^2/NDF : 52.6/24

Right Out: 39.487+/-13.479 χ^2/NDF : 51.4/38

Left In: -29.055+/-9.449 χ^2/NDF : 22.4/22

Left: -30.089+/-6.581 χ^2/NDF : 75.1/47

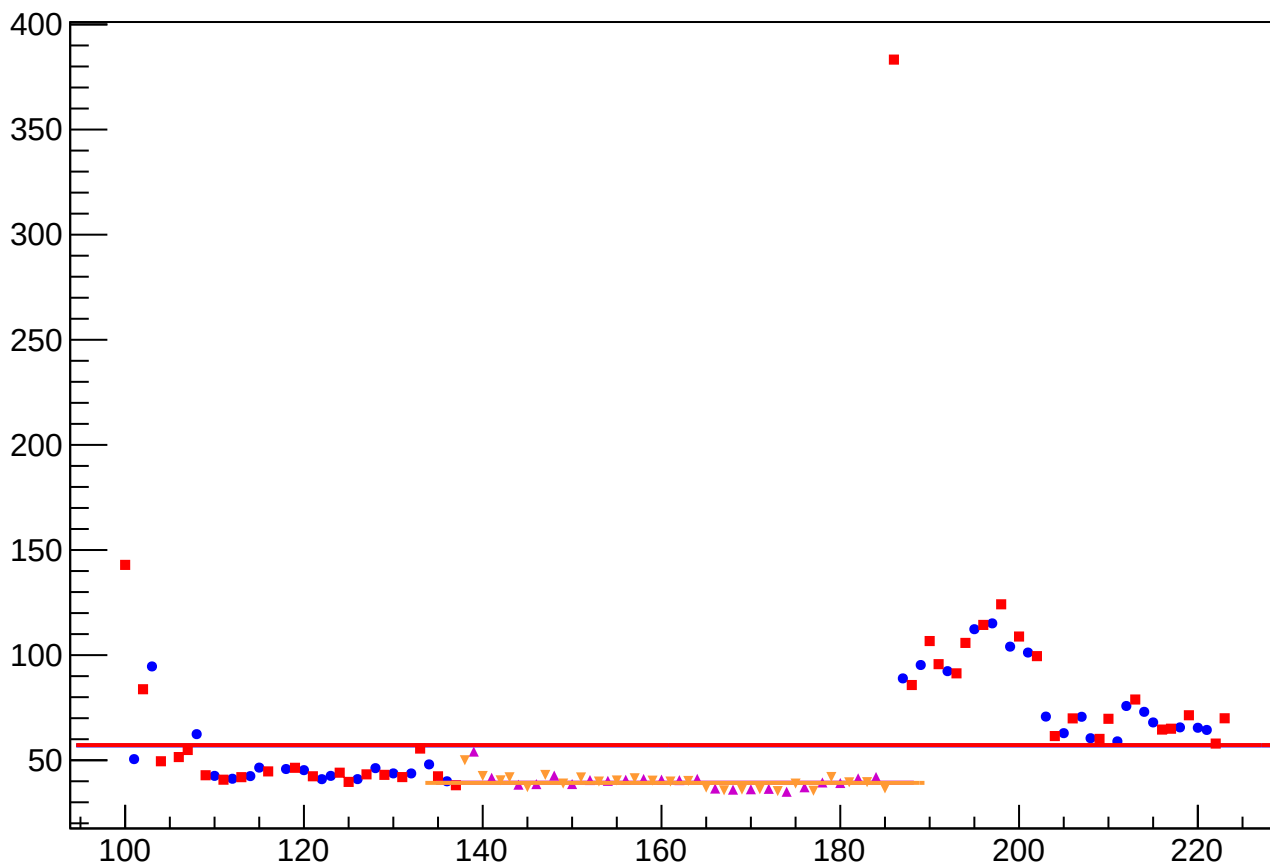
Right: 43.823+/-9.537 χ^2/NDF : 83.1/73

In: -3.647+/-7.740 χ^2/NDF : 75.8/57

Out: -8.743+/-7.582 χ^2/NDF : 122.7/63

All: -6.248+/-5.416 χ^2/NDF : 198.8/121

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 57.049 $\pm$ 0.010 χ^2 /NDF: 3617521.4/34

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 57.207 $\pm$ 0.010 χ^2 /NDF: 4657442.8/38

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

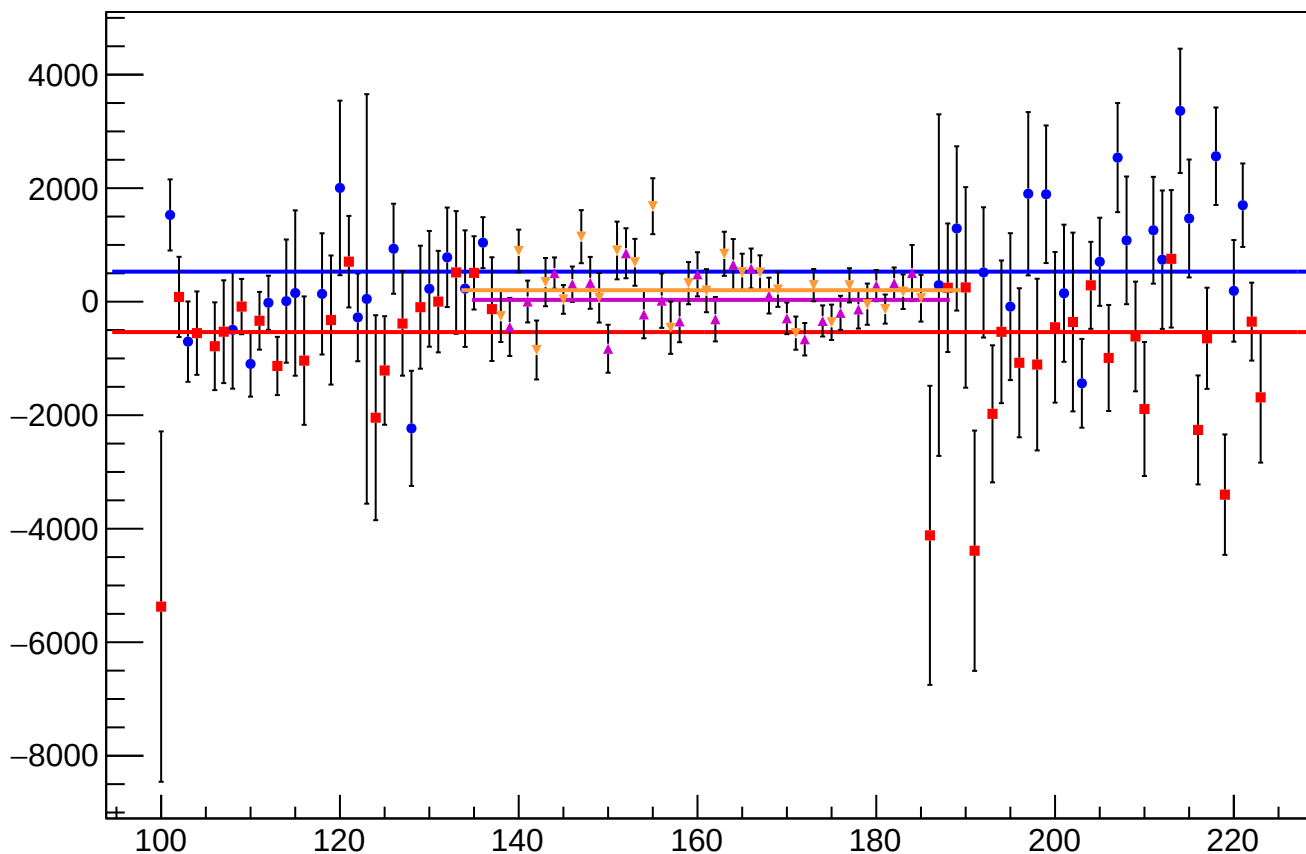
Right: 57.128 $\pm$ 0.007 χ^2 /NDF: 8275101.9/73

In: 45.165 $\pm$ 0.005 χ^2 /NDF: 6144776.6/57

Out: 44.921 $\pm$ 0.005 χ^2 /NDF: 7290083.5/63

All: 45.041 $\pm$ 0.004 χ^2 /NDF: 13435878.6/120

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 529.304 $\pm$ 149.143 χ^2 /NDF: 57.7/34

Left Out: 202.369 $\pm$ 70.426 χ^2 /NDF:44.8/24

Right Out: -535.570 $\pm$ 145.593 χ^2 /NDF: 36.8/38

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

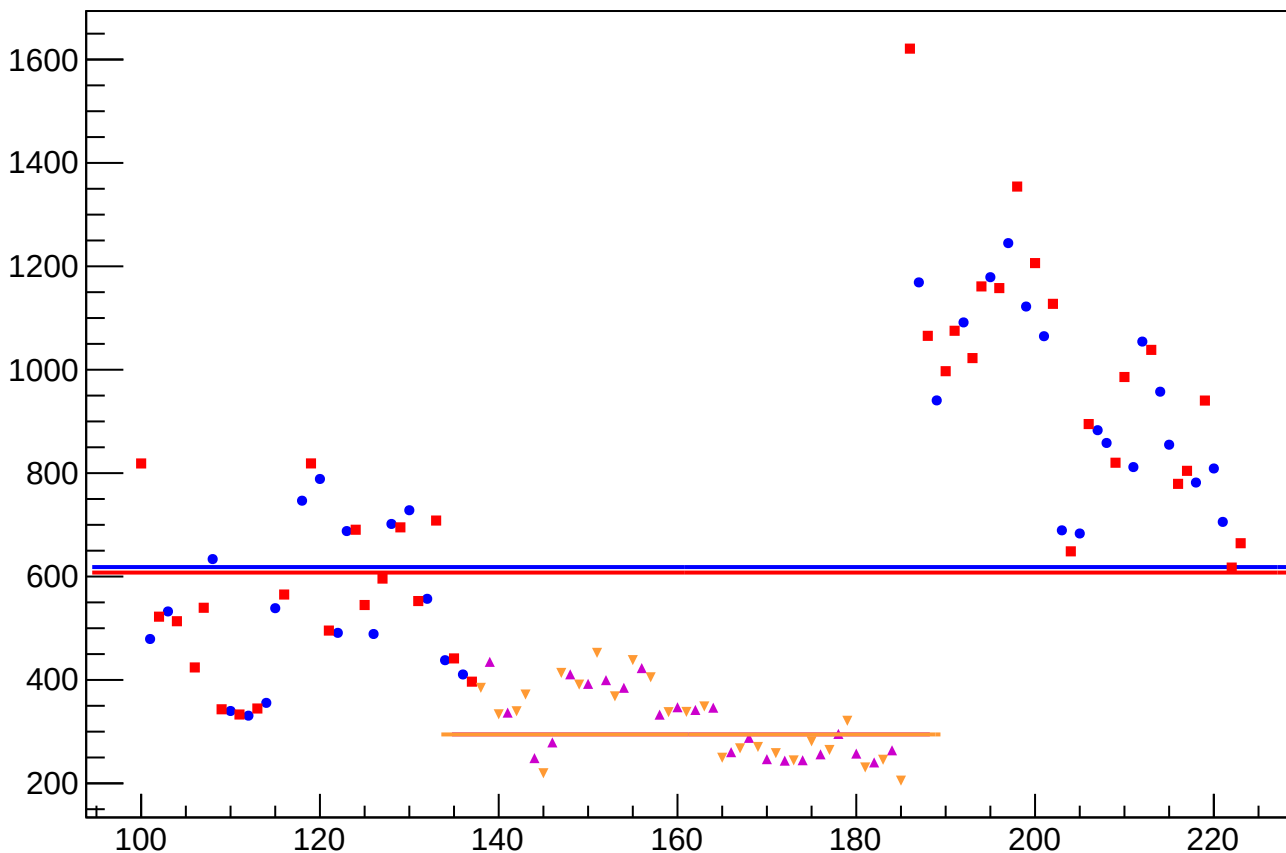
Right: -15.955 $\pm$ 104.182 χ^2 /NDF: 120.6/73

In: 125.840 $\pm$ 64.913 χ^2 /NDF:100.1/57

Out: 62.444 $\pm$ 63.398 χ^2 /NDF:102.5/63

All: 93.394 $\pm$ 45.355 χ^2 /NDF: 203.0/121

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 618.316+/-0.105 χ^2/NDF : 5122911.5/34

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 607.669+/-0.103 χ^2/NDF : 6311658.6/38

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

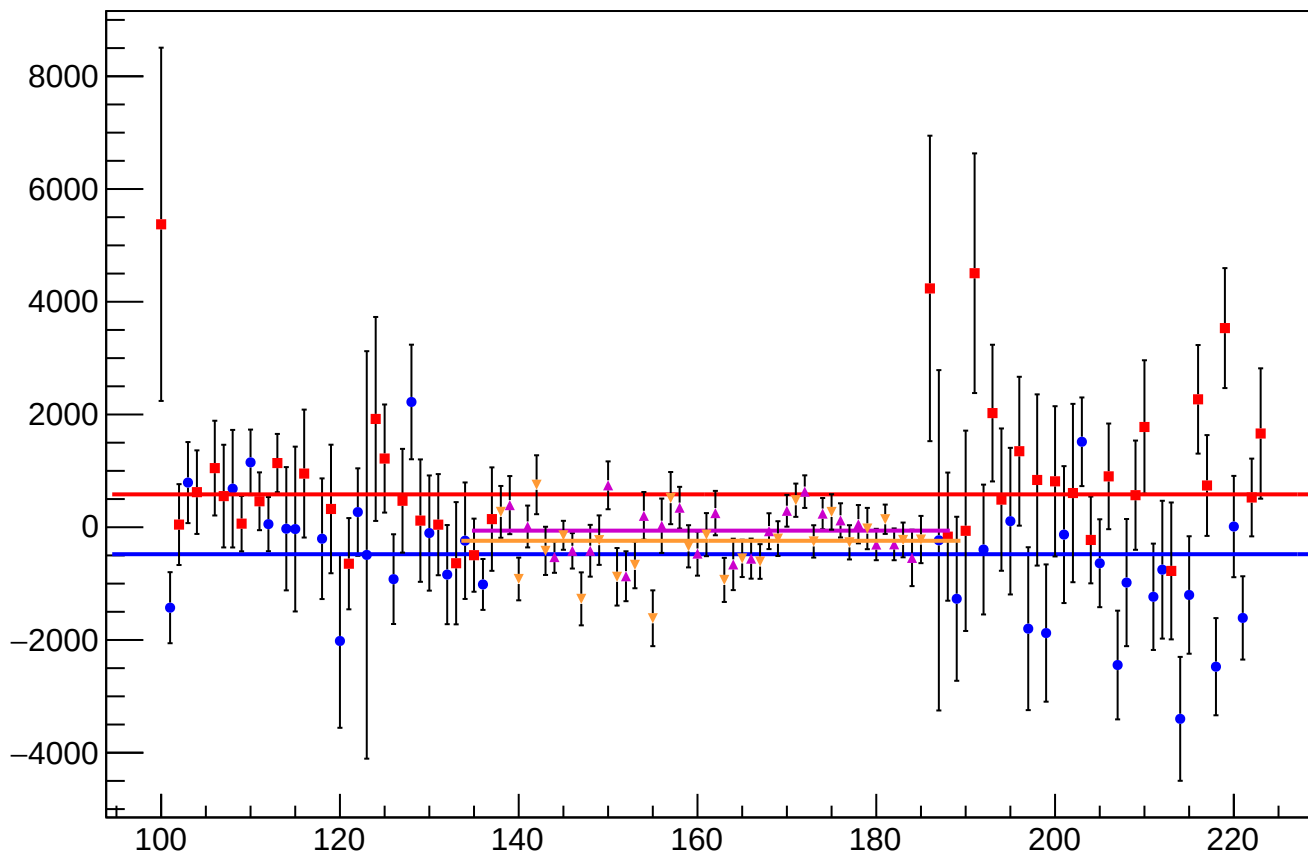
Right: 612.864+/-0.074 χ^2/NDF : 11439789.3/73

In: 356.021+/-0.046 χ^2/NDF : 14051827.7/57

Out: 353.956+/-0.045 χ^2/NDF : 15486626.5/63

All: 354.964+/-0.032 χ^2/NDF : 29539490.6/120

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -478.390+/-149.943 χ^2/NDF : 56.9/34

Left Out: -240.357+/-71.100 χ^2/NDF : 42.9/24

Right Out: 583.277+/-146.803 χ^2/NDF : 36.6/38

Left In: -60.330+/-72.788 χ^2/NDF : 30.9/22

Left: -152.455+/-50.862 χ^2/NDF : 77.0/47

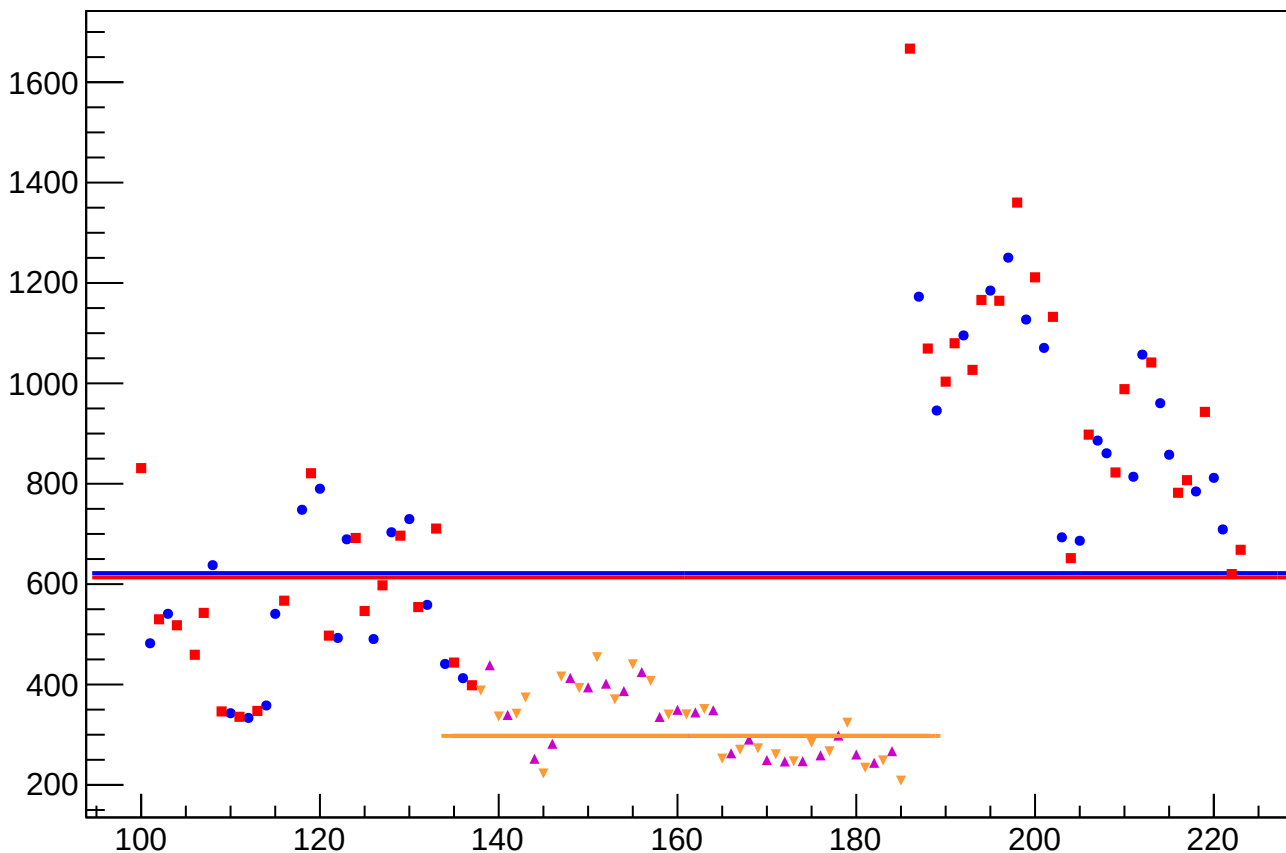
Right: 63.675+/-104.898 χ^2/NDF : 119.1/73

In: -140.058+/-65.481 χ^2/NDF : 94.1/57

Out: -83.865+/-63.990 χ^2/NDF : 105.0/63

All: -111.315+/-45.766 χ^2/NDF : 199.5/121

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 621.967 $\pm$ 0.106 χ^2 /NDF: 5087952.4/34

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF: 1637757.8/24

Right Out: 613.399 $\pm$ 0.104 χ^2 /NDF: 6230697.7/38

Left In: 297.699 $\pm$ 0.051 χ^2 /NDF: 1266306.2/22

Left: 297.655 $\pm$ 0.036 χ^2 /NDF: 2904065.4/47

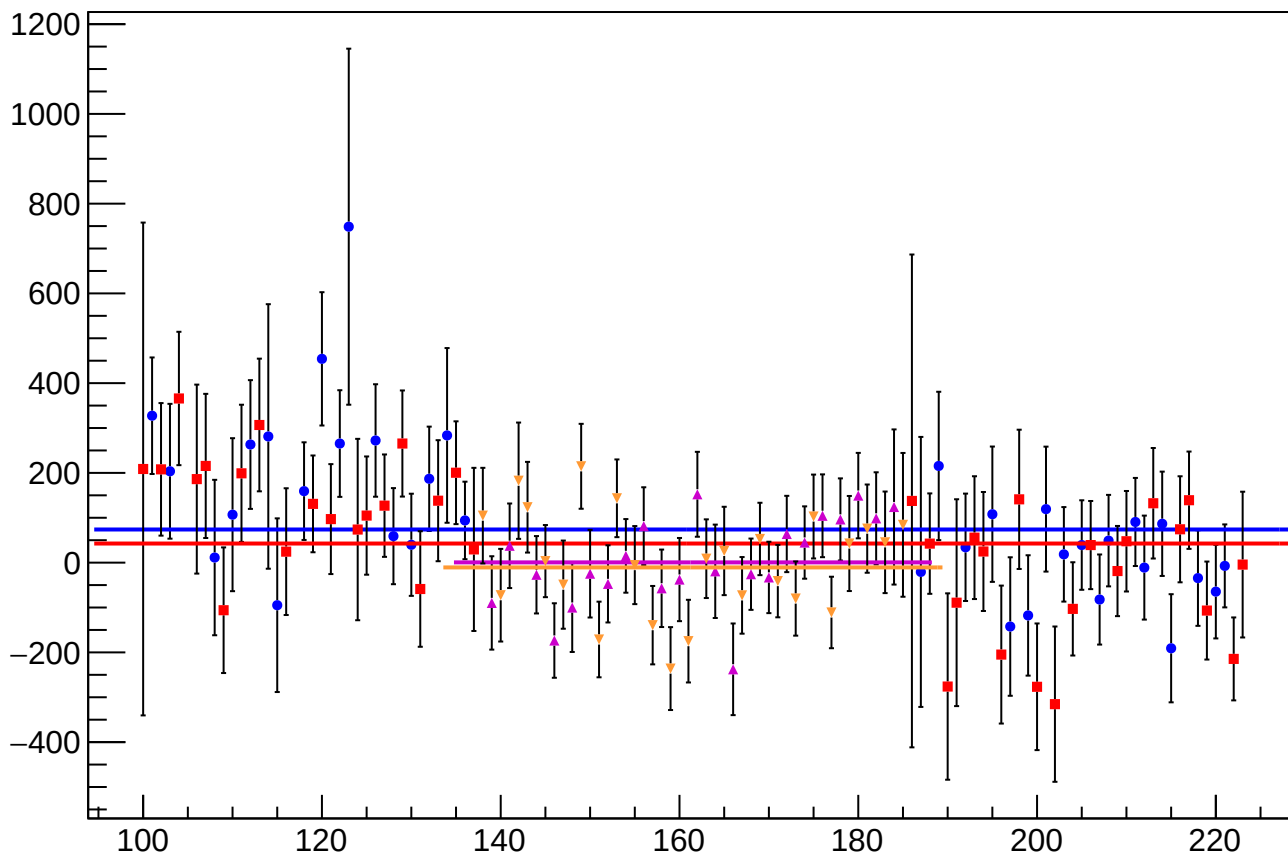
Right: 617.592 $\pm$ 0.074 χ^2 /NDF: 11321985.0/73

In: 359.540 $\pm$ 0.046 χ^2 /NDF: 13924178.6/57

Out: 357.613 $\pm$ 0.045 χ^2 /NDF: 15364436.1/63

All: 358.554 $\pm$ 0.032 χ^2 /NDF: 29289501.3/120

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 73.866 $\pm$ 21.115 χ^2 /NDF: 42.1/34

Left Out: -10.667 $\pm$ 18.610 χ^2 /NDF:36.3/24

Right Out: 42.584 $\pm$ 21.369 χ^2 /NDF: 49.9/38

Left In: 0.575 $\pm$ 19.091 χ^2 /NDF:23.8/22

Left: -5.190 $\pm$ 13.326 χ^2 /NDF: 60.3/47

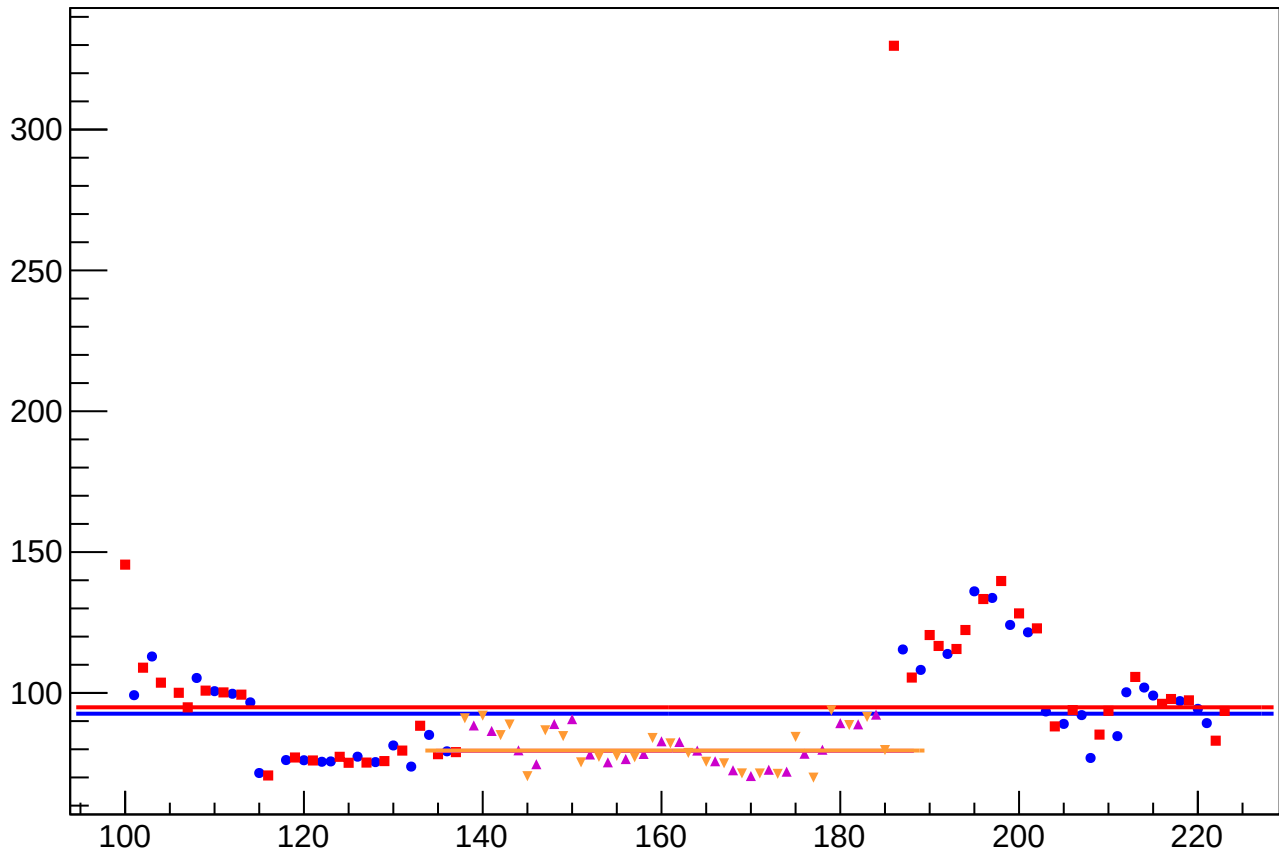
Right: 58.412 $\pm$ 15.020 χ^2 /NDF: 93.1/73

In: 33.540 $\pm$ 14.161 χ^2 /NDF:72.5/57

Out: 12.300 $\pm$ 14.034 χ^2 /NDF:89.8/63

All: 22.824 $\pm$ 9.968 χ^2 /NDF: 163.4/121

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.631 $\pm$ 0.015 χ^2 /NDF: 1098371.5/34

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF: 309075.2/24

Right Out: 94.902 $\pm$ 0.015 χ^2 /NDF: 1571836.9/38

Left In: 79.436 $\pm$ 0.013 χ^2 /NDF: 212440.1/22

Left: 79.495 $\pm$ 0.009 χ^2 /NDF: 521552.2/47

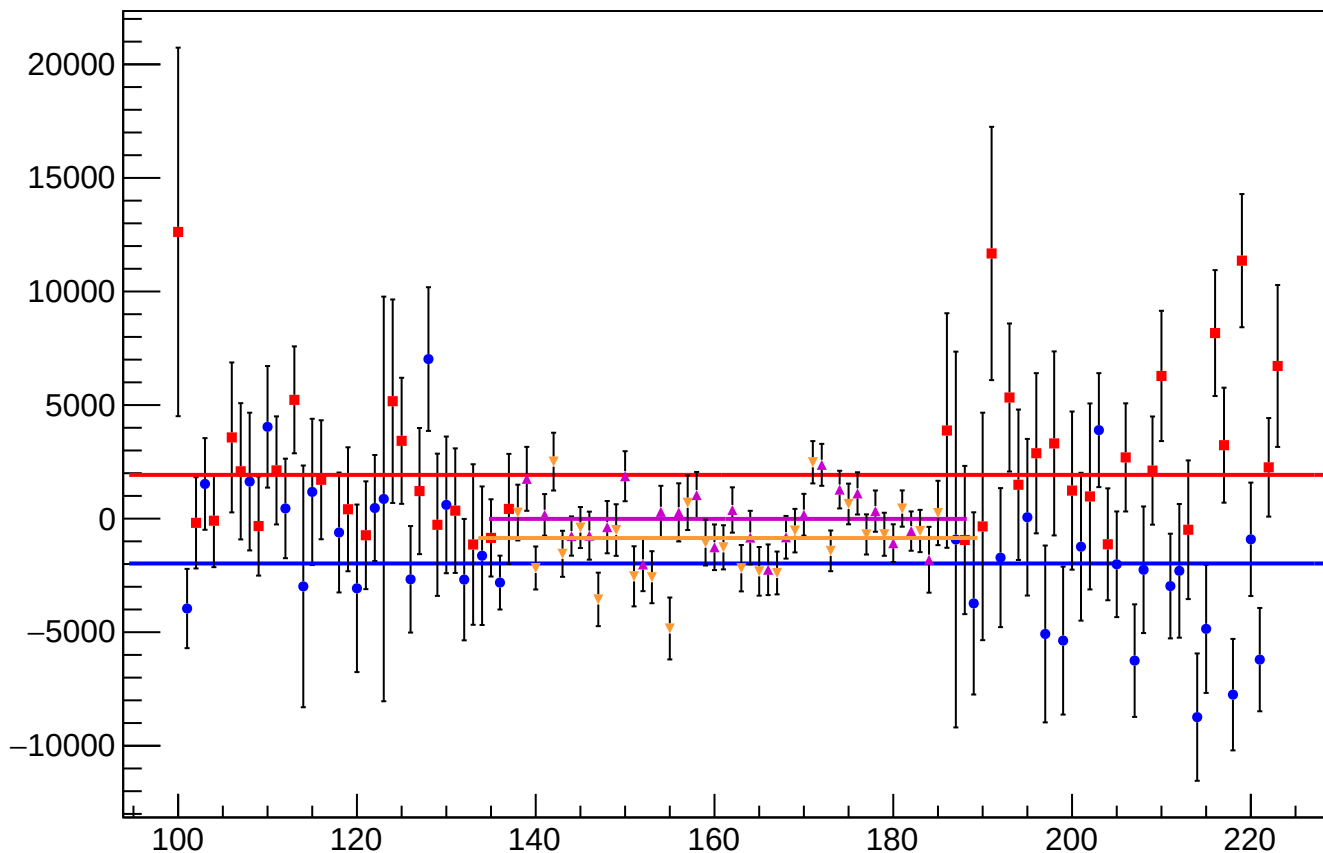
Right: 93.753 $\pm$ 0.011 χ^2 /NDF: 2681638.0/73

In: 85.371 $\pm$ 0.010 χ^2 /NDF: 1740491.9/57

Out: 86.172 $\pm$ 0.010 χ^2 /NDF: 2467872.0/63

All: 85.775 $\pm$ 0.007 χ^2 /NDF: 4211591.0/121

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1974.379+/-440.185 χ^2/NDF : 51.1/34

Left Out: -854.130+/-204.090 χ^2/NDF : 56.0/24

Right Out: 1926.051+/-447.957 χ^2/NDF : 41.9/38

Left In: -11.687+/-210.073 χ^2/NDF : 31.2/22

Left: -445.076+/-146.383 χ^2/NDF : 95.5/47

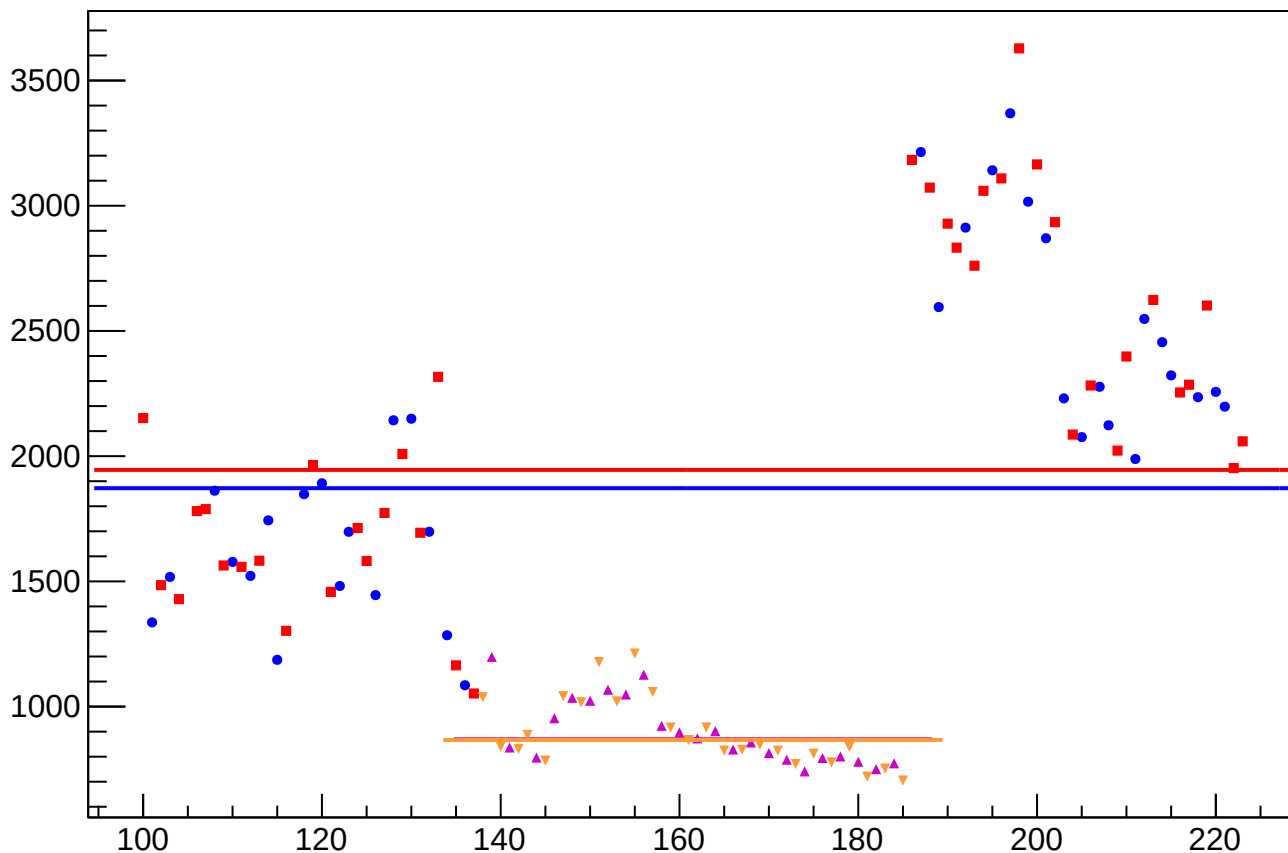
Right: -58.291+/-313.970 χ^2/NDF : 131.5/73

In: -375.778+/-189.590 χ^2/NDF : 98.5/57

Out: -376.236+/-185.723 χ^2/NDF : 129.7/63

All: -376.012+/-132.672 χ^2/NDF : 228.2/121

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1872.141 $\pm$ 0.311 χ^2 /NDF: 3392763.2/34

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1945.145 $\pm$ 0.317 χ^2 /NDF: 3510274.0/38

Left In: 869.569 $\pm$ 0.149 χ^2 /NDF: 582301.2/22

Left: 868.192 $\pm$ 0.104 χ^2 /NDF: 1244180.7/47

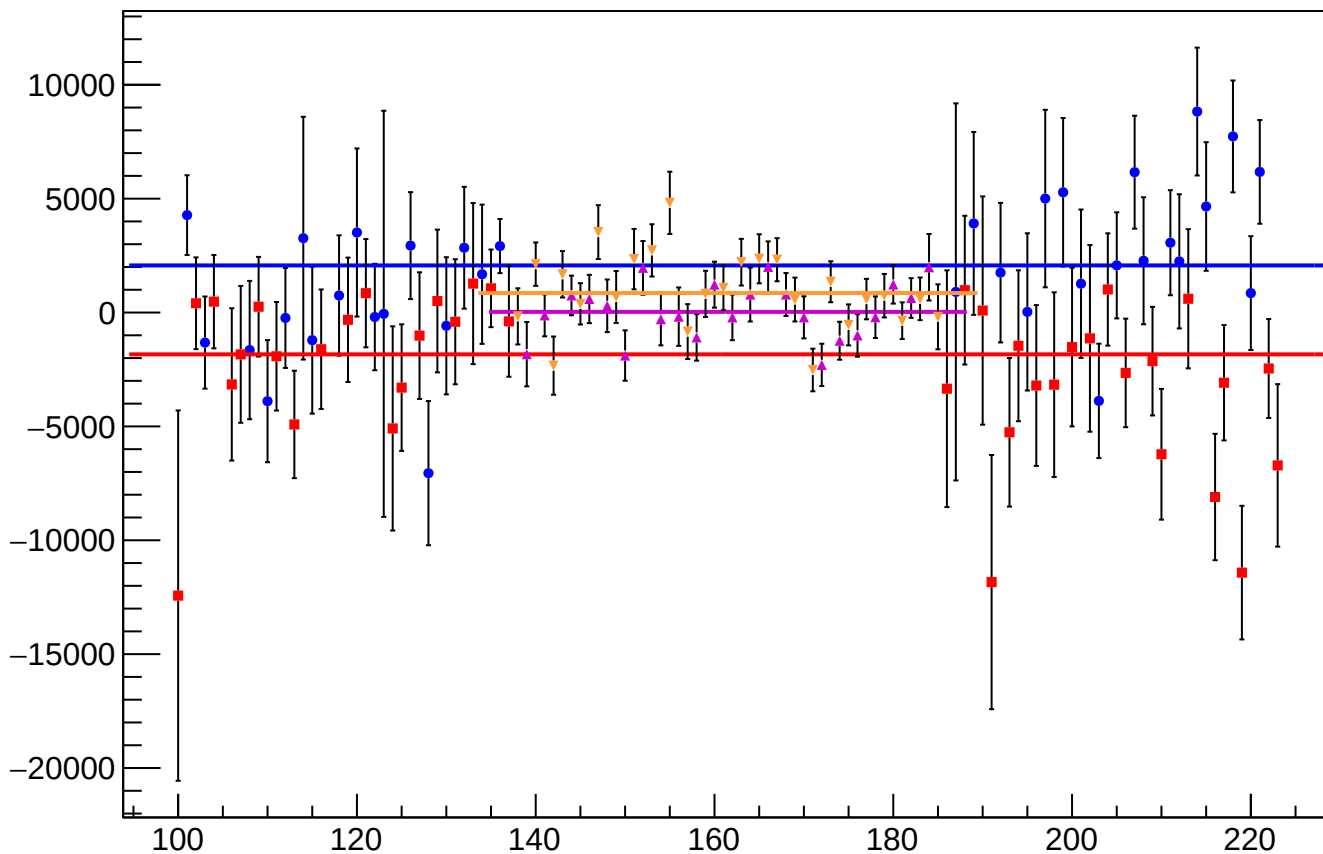
Right: 1908.004 $\pm$ 0.222 χ^2 /NDF: 6930061.4/73

In: 1055.552 $\pm$ 0.134 χ^2 /NDF: 12425480.9/57

Out: 1052.237 $\pm$ 0.131 χ^2 /NDF: 13767857.1/63

All: 1053.860 $\pm$ 0.094 χ^2 /NDF: 26193649.9/120

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 2068.012 $\pm$ 440.873 χ^2 /NDF: 50.4/34

Left Out: 855.664 $\pm$ 205.047 χ^2 /NDF: 54.1/24

Right Out: -1836.179 $\pm$ 448.722 χ^2 /NDF: 42.3/38

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

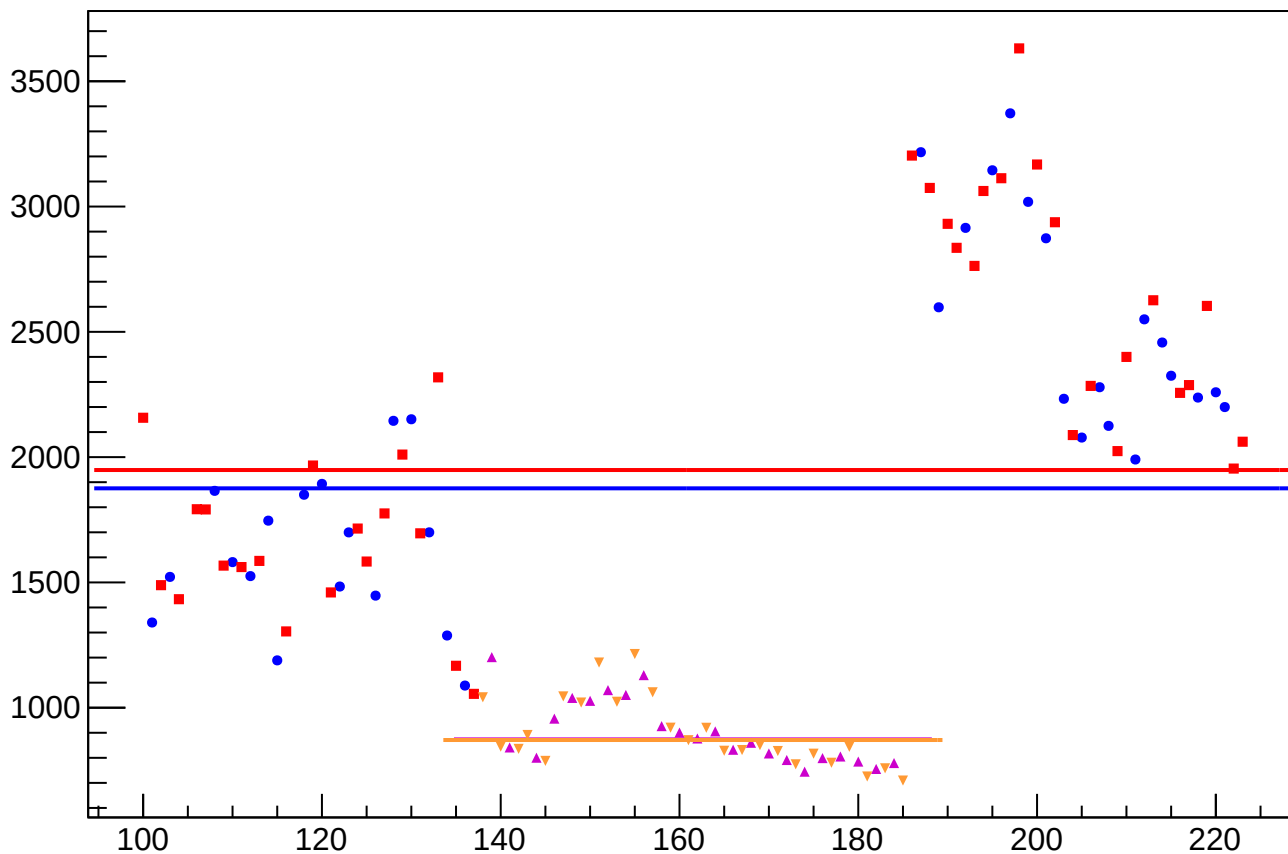
Right: 150.360 $\pm$ 314.482 χ^2 /NDF: 131.3/73

In: 408.738 $\pm$ 190.350 χ^2 /NDF: 97.6/57

Out: 390.674 $\pm$ 186.498 χ^2 /NDF: 126.1/63

All: 399.522 $\pm$ 133.215 χ^2 /NDF: 223.7/121

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1875.474 $\pm$ 0.312 χ^2/NDF : 3377746.6/34

Left Out: 871.109 $\pm$ 0.145 χ^2/NDF : 651751.1/24

Right Out: 1948.550 $\pm$ 0.317 χ^2/NDF : 3499480.8/38

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

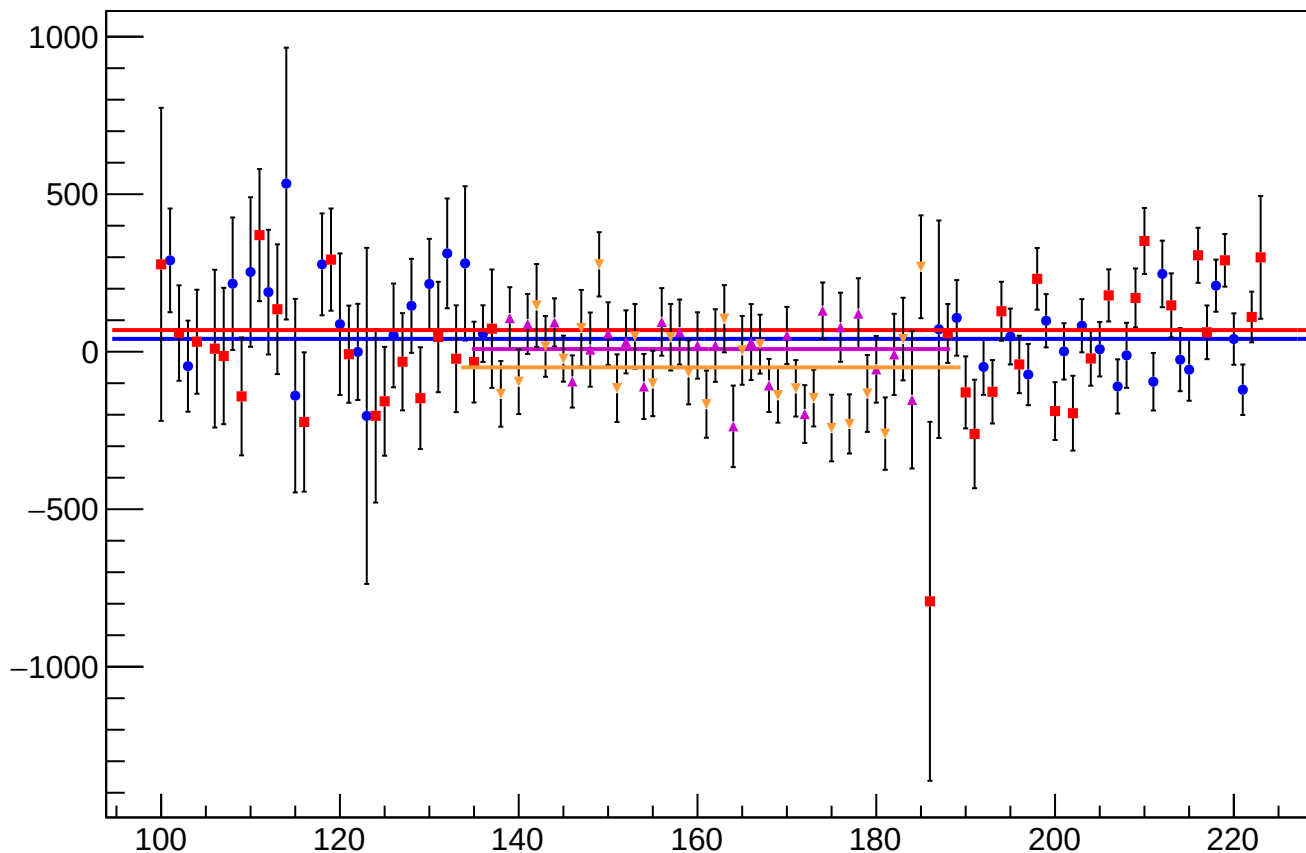
Right: 1911.367 $\pm$ 0.222 χ^2/NDF : 6904216.8/73

In: 1060.425 $\pm$ 0.135 χ^2/NDF : 12353281.0/57

Out: 1057.227 $\pm$ 0.132 χ^2/NDF : 13690279.8/63

All: 1058.793 $\pm$ 0.094 χ^2/NDF : 26043848.9/1

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 40.728 ± 19.436 $\chi^2/\text{NDF}: 37.0/34$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: 68.622 ± 19.576 $\chi^2/\text{NDF}: 71.7/38$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

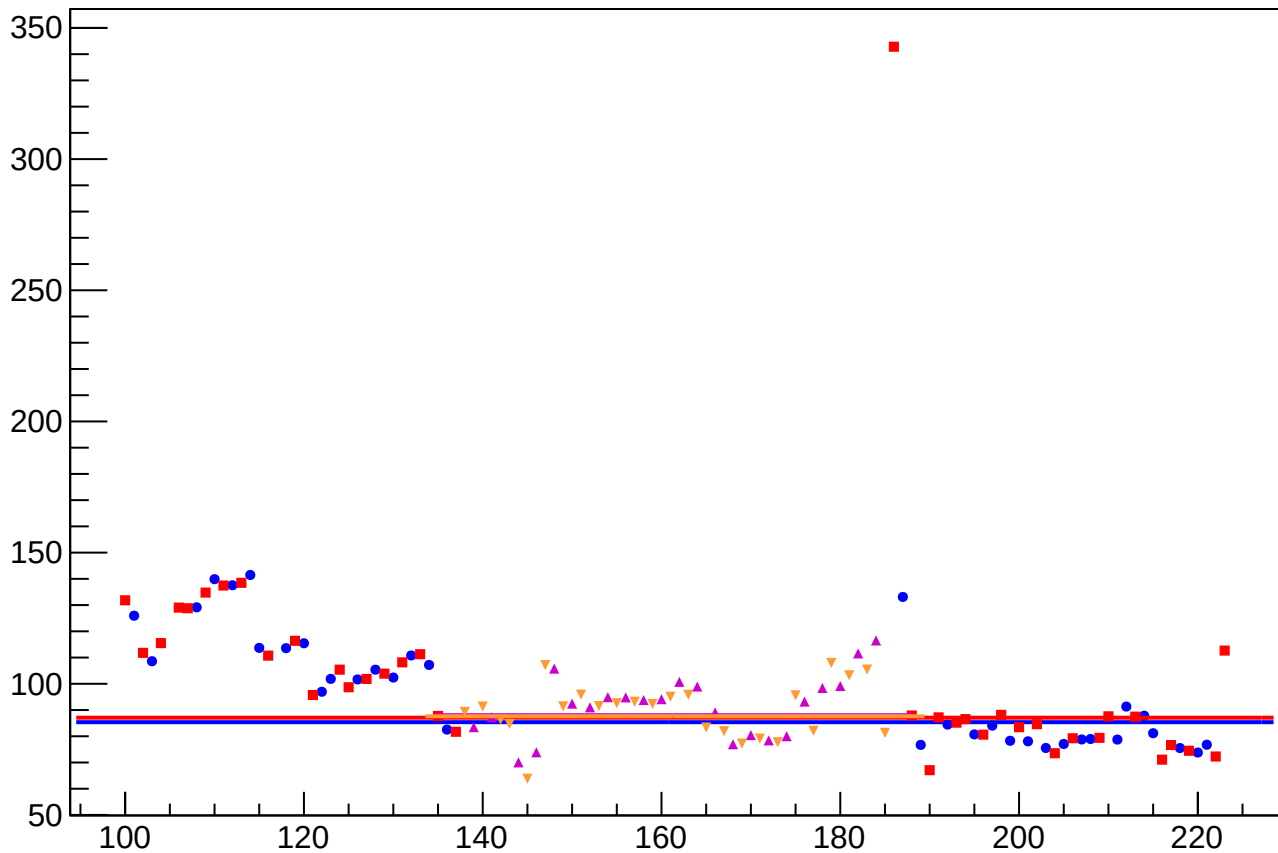
Right: 54.575 ± 13.793 $\chi^2/\text{NDF}: 109.7/73$

In: 25.992 ± 14.349 $\chi^2/\text{NDF}: 60.2/57$

Out: 12.410 ± 14.184 $\chi^2/\text{NDF}: 128.5/63$

All: 19.123 ± 10.087 $\chi^2/\text{NDF}: 189.2/121$

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 85.370 $\pm$ 0.014 χ^2 /NDF: 1070742.5/34

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 87.076 $\pm$ 0.014 χ^2 /NDF: 1657388.8/38

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

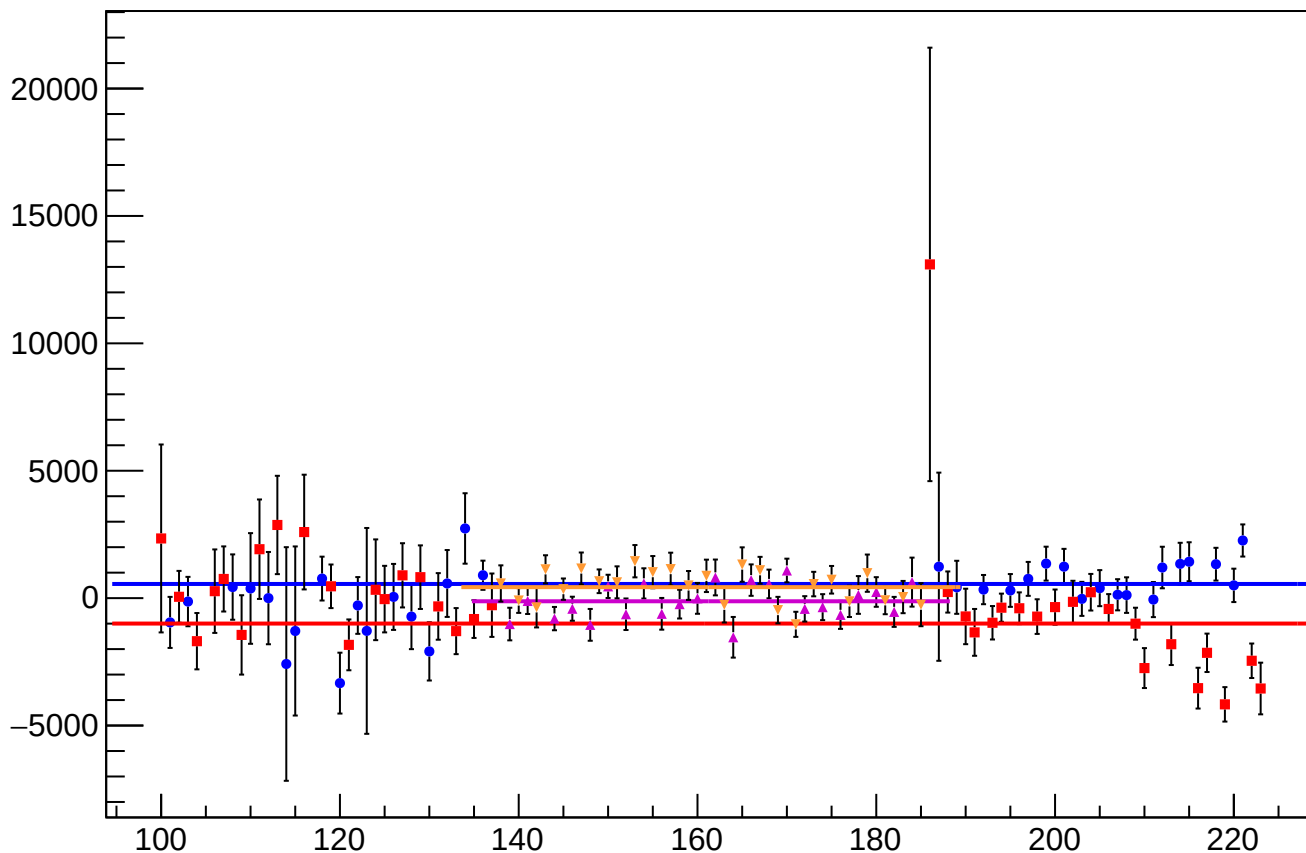
Right: 86.217 $\pm$ 0.010 χ^2 /NDF: 2735786.2/73

In: 86.581 $\pm$ 0.010 χ^2 /NDF: 1611528.3/57

Out: 87.337 $\pm$ 0.010 χ^2 /NDF: 2212826.8/63

All: 86.964 $\pm$ 0.007 χ^2 /NDF: 3827163.3/121

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 556.108 $\pm$ 143.741 χ^2 /NDF: 41.4/34

Left Out: 431.658 $\pm$ 115.706 χ^2 /NDF:30.5/24

Right Out: -997.799 $\pm$ 142.230 χ^2 /NDF: 88.2/38

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

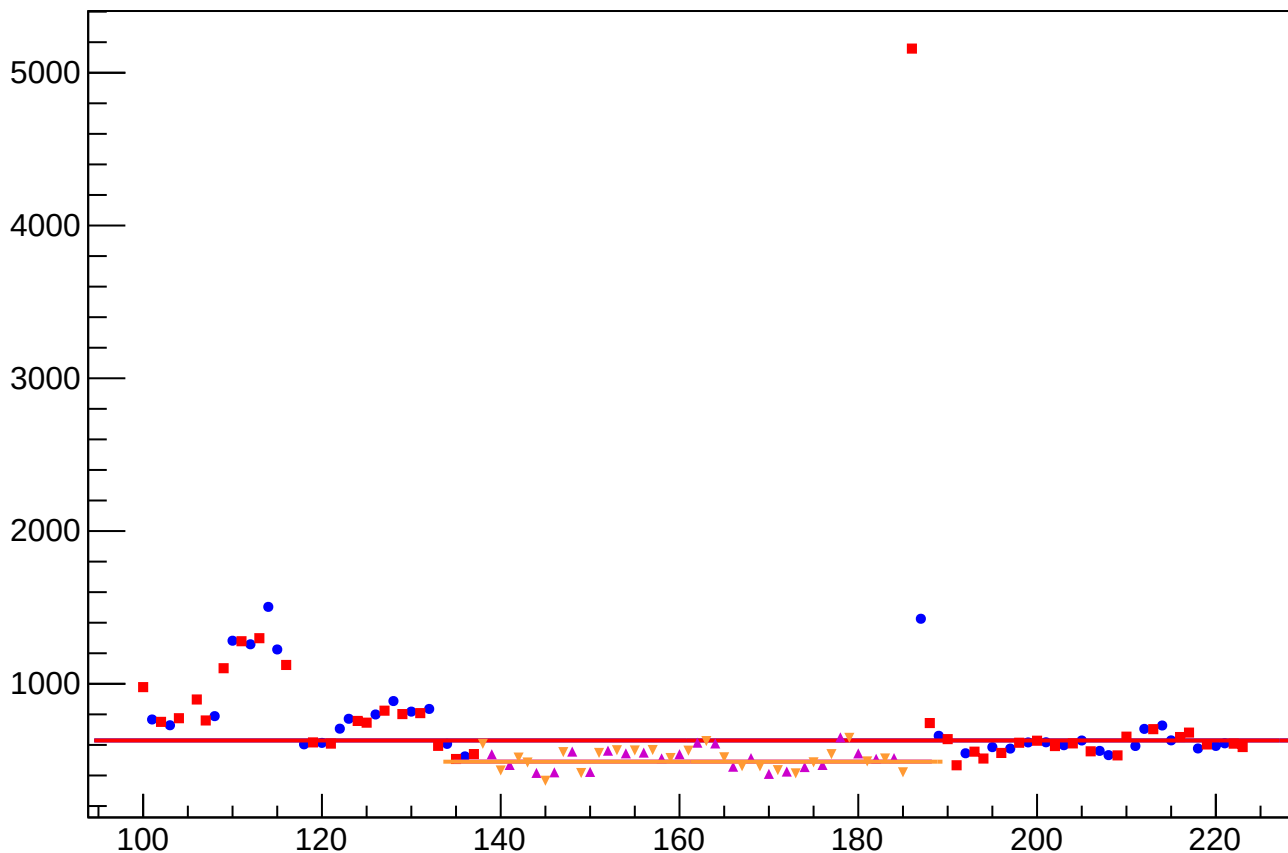
Right: -229.054 $\pm$ 101.102 χ^2 /NDF: 188.6/73

In: 152.743 $\pm$ 91.595 χ^2 /NDF:83.9/57

Out: -137.613 $\pm$ 89.756 χ^2 /NDF:179.4/63

All: 4.622 $\pm$ 64.107 χ^2 /NDF: 268.5/121

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 629.496 $\pm$ 0.102 χ^2 /NDF: 1250041.8/34

Left Out: 490.267 $\pm$ 0.082 χ^2 /NDF: 750277.0/24

Right Out: 629.167 $\pm$ 0.101 χ^2 /NDF: 2058041.1/38

Left In: 490.910 $\pm$ 0.084 χ^2 /NDF: 589235.5/22

Left: 490.580 $\pm$ 0.059 χ^2 /NDF: 1339542.5/47

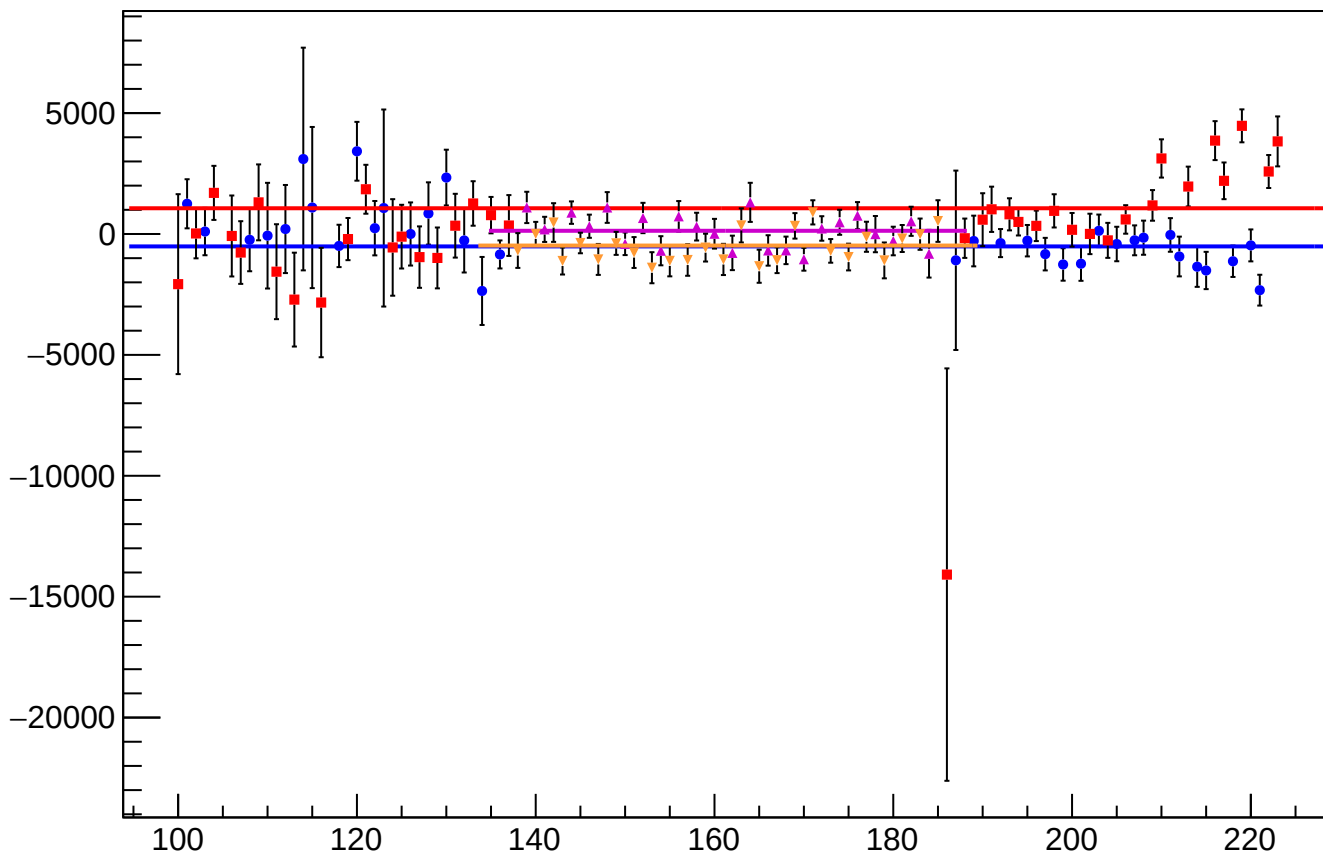
Right: 629.330 $\pm$ 0.071 χ^2 /NDF: 3308088.1/73

In: 547.183 $\pm$ 0.065 χ^2 /NDF: 2943503.9/57

Out: 545.583 $\pm$ 0.063 χ^2 /NDF: 3956137.9/63

All: 546.367 $\pm$ 0.045 χ^2 /NDF: 6899953.1/123

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -513.821 ± 145.204 $\chi^2/\text{NDF}: 41.5/34$

Left Out: -478.197 ± 117.659 $\chi^2/\text{NDF}: 27.8/24$

Right Out: 1064.213 ± 143.779 $\chi^2/\text{NDF}: 98.2/38$

Left In: 132.543 ± 120.866 $\chi^2/\text{NDF}: 29.5/22$

Left: -181.037 ± 84.308 $\chi^2/\text{NDF}: 70.5/47$

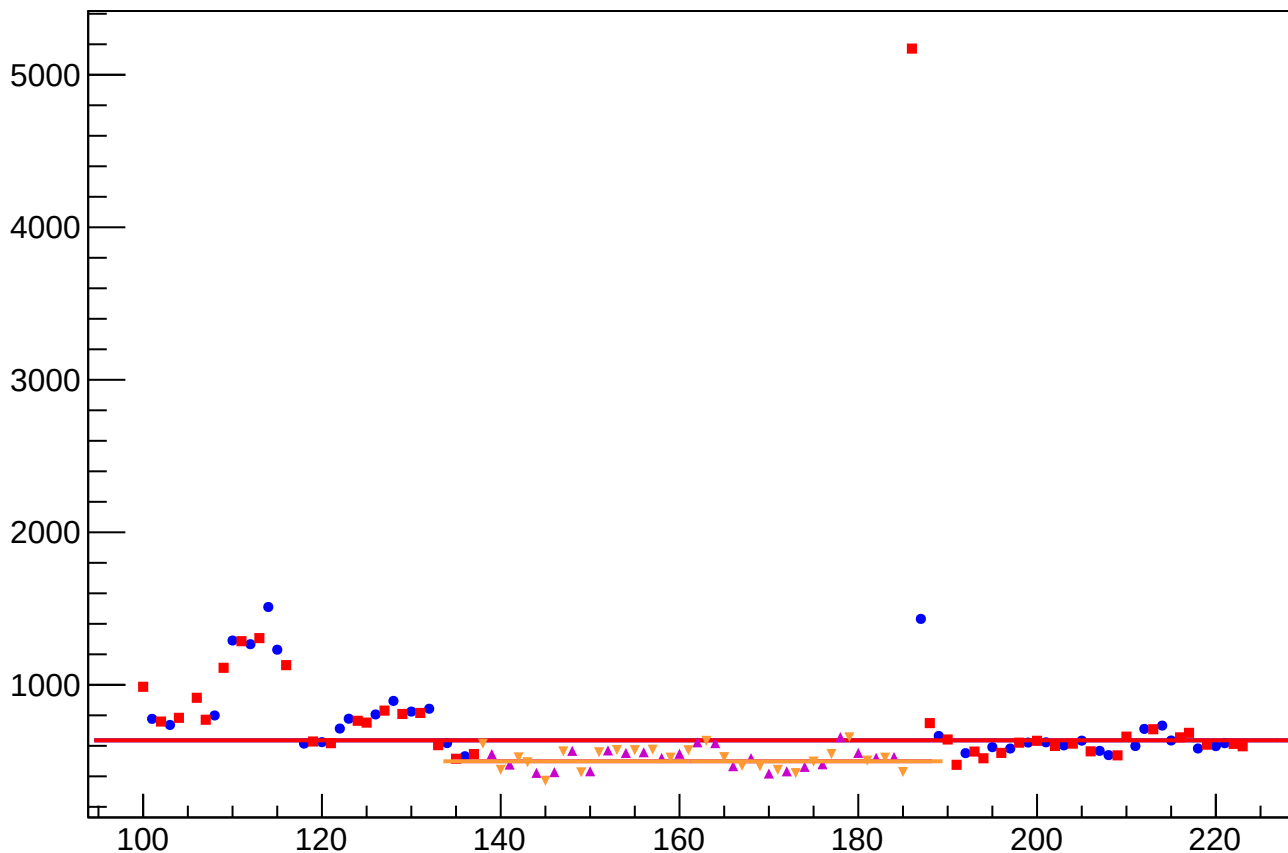
Right: 282.976 ± 102.167 $\chi^2/\text{NDF}: 199.3/73$

In: -132.006 ± 92.895 $\chi^2/\text{NDF}: 82.8/57$

Out: 140.431 ± 91.056 $\chi^2/\text{NDF}: 194.9/63$

All: 6.935 ± 65.027 $\chi^2/\text{NDF}: 282.1/121$

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 636.069+/-0.103 χ^2/NDF : 1238662.3/34

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 636.233+/-0.102 χ^2/NDF : 2035727.2/38

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

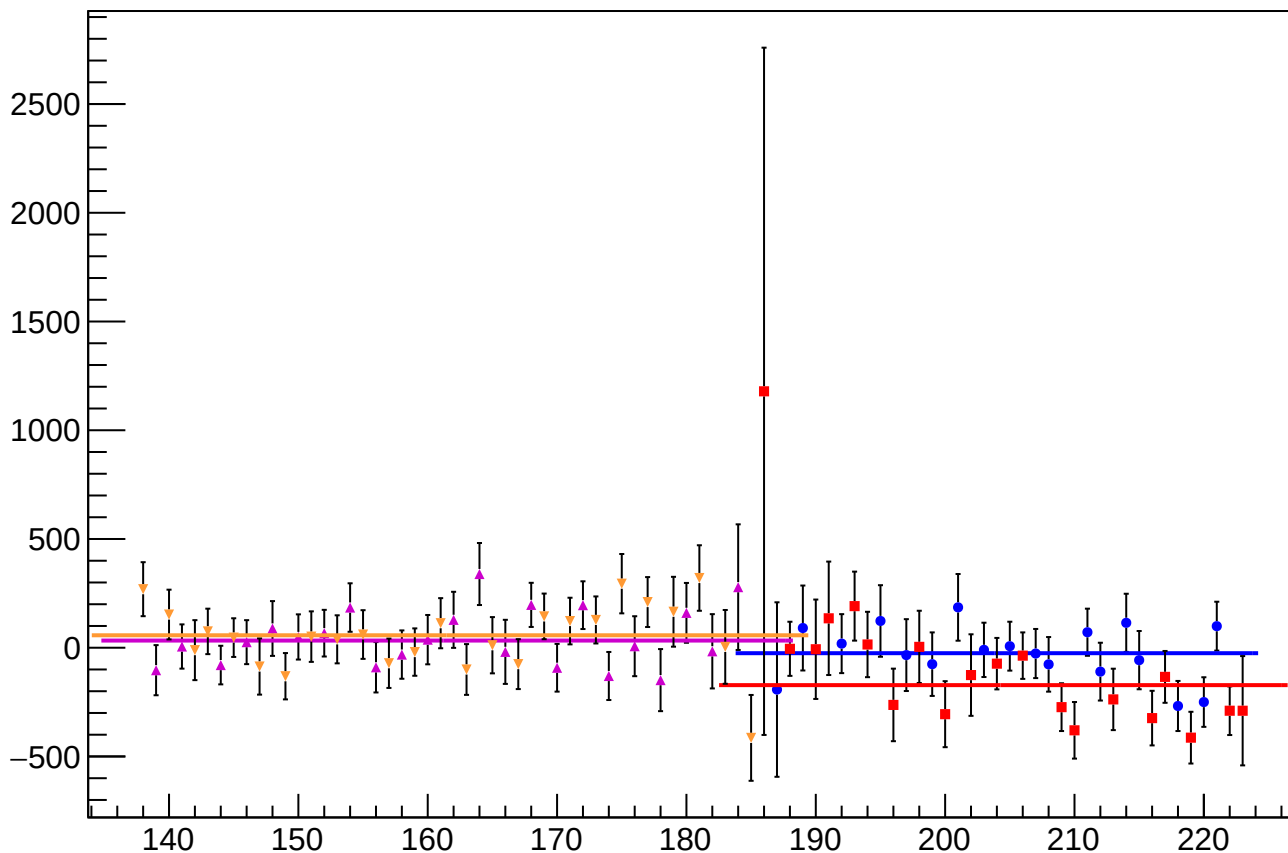
Right: 636.152+/-0.072 χ^2/NDF : 3274390.7/73

In: 555.333+/-0.066 χ^2/NDF : 2861933.6/57

Out: 553.894+/-0.064 χ^2/NDF : 3865196.3/63

All: 554.599+/-0.046 χ^2/NDF : 6727374.6/123

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.135 ± 31.313 $\chi^2/\text{NDF}: 15.6/17$

Left Out: 57.211 ± 23.714 $\chi^2/\text{NDF}: 29.2/24$

Right Out: -172.001 ± 31.970 $\chi^2/\text{NDF}: 26.4/19$

Left In: 32.948 ± 24.587 $\chi^2/\text{NDF}: 23.6/22$

Left: 45.518 ± 17.069 $\chi^2/\text{NDF}: 53.3/47$

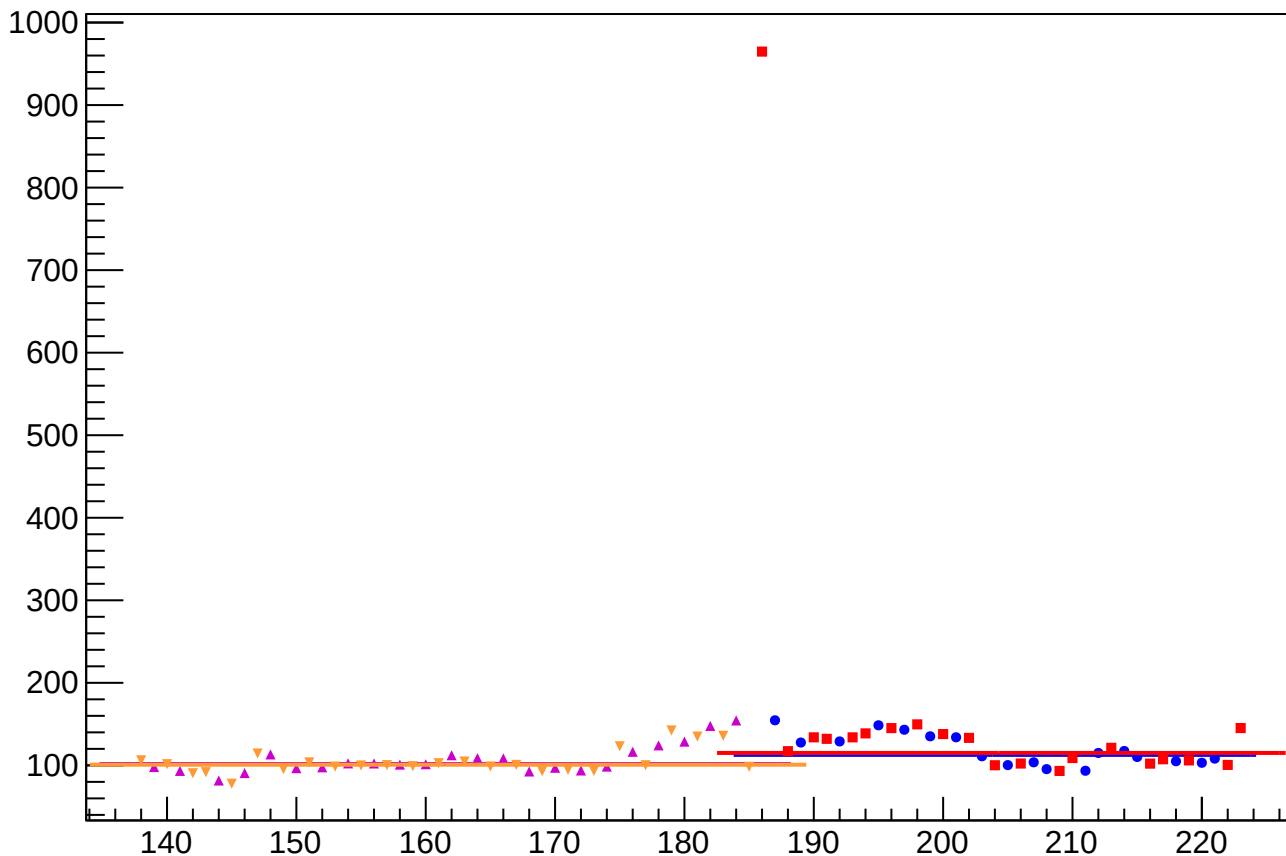
Right: -97.044 ± 22.370 $\chi^2/\text{NDF}: 52.8/37$

In: 10.796 ± 19.338 $\chi^2/\text{NDF}: 41.4/40$

Out: -24.141 ± 19.046 $\chi^2/\text{NDF}: 88.8/44$

All: -6.938 ± 13.570 $\chi^2/\text{NDF}: 131.8/85$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 112.708 $\pm$ 0.022 χ^2 /NDF: 479641.0/17

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF: 600502.4/24

Right Out: 115.060 $\pm$ 0.023 χ^2 /NDF: 1147099.1/19

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

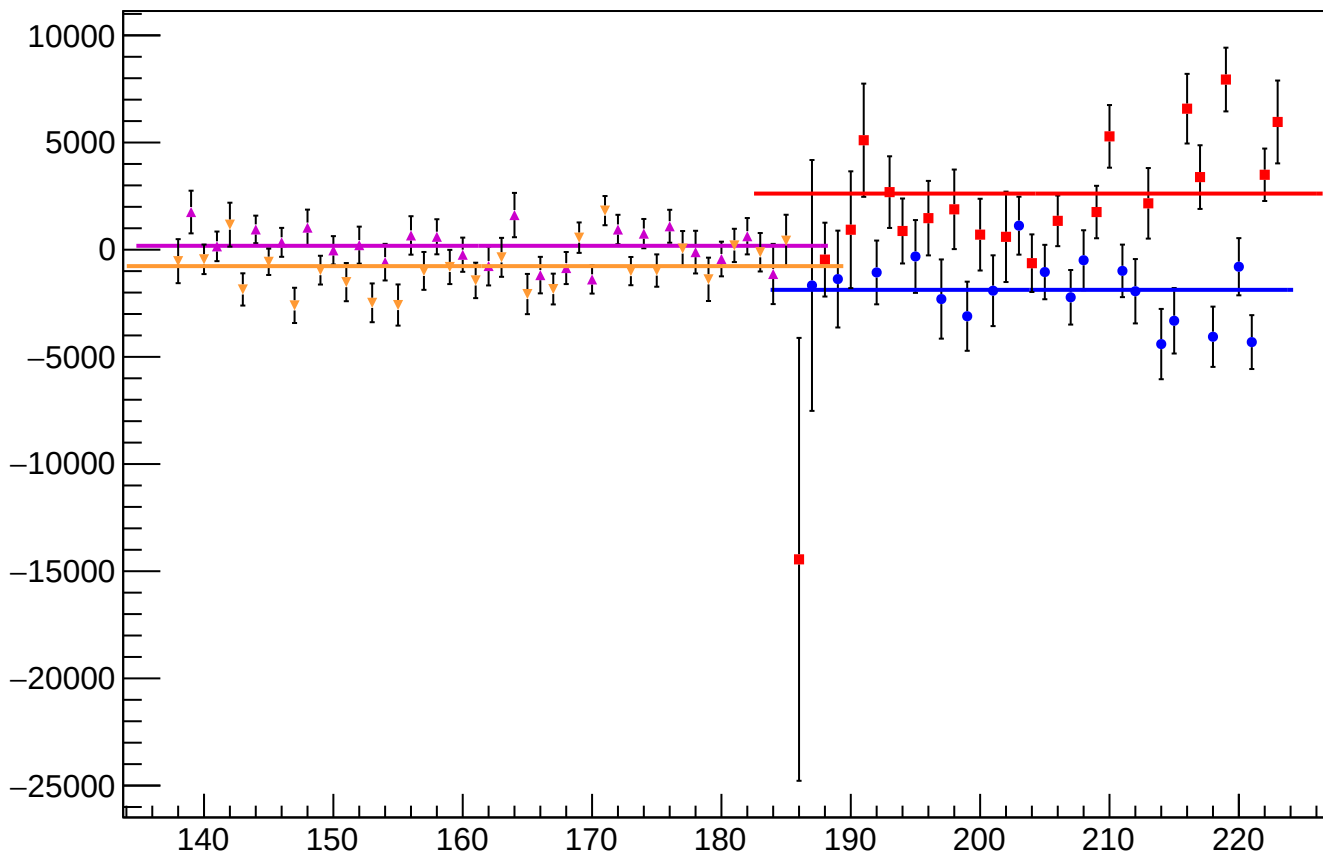
Right: 113.860 $\pm$ 0.016 χ^2 /NDF: 1632266.0/37

In: 105.850 $\pm$ 0.014 χ^2 /NDF: 1217047.8/40

Out: 105.862 $\pm$ 0.013 χ^2 /NDF: 2004272.7/44

All: 105.856 $\pm$ 0.010 χ^2 /NDF: 3221320.8/85

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1873.043 ± 354.118 $\chi^2/\text{NDF}: 18.8/17$

Left Out: -766.358 ± 161.066 $\chi^2/\text{NDF}: 46.5/24$

Right Out: 2618.153 ± 362.323 $\chi^2/\text{NDF}: 44.8/19$

Left In: 181.584 ± 165.671 $\chi^2/\text{NDF}: 25.0/22$

Left: -305.743 ± 115.485 $\chi^2/\text{NDF}: 88.4/47$

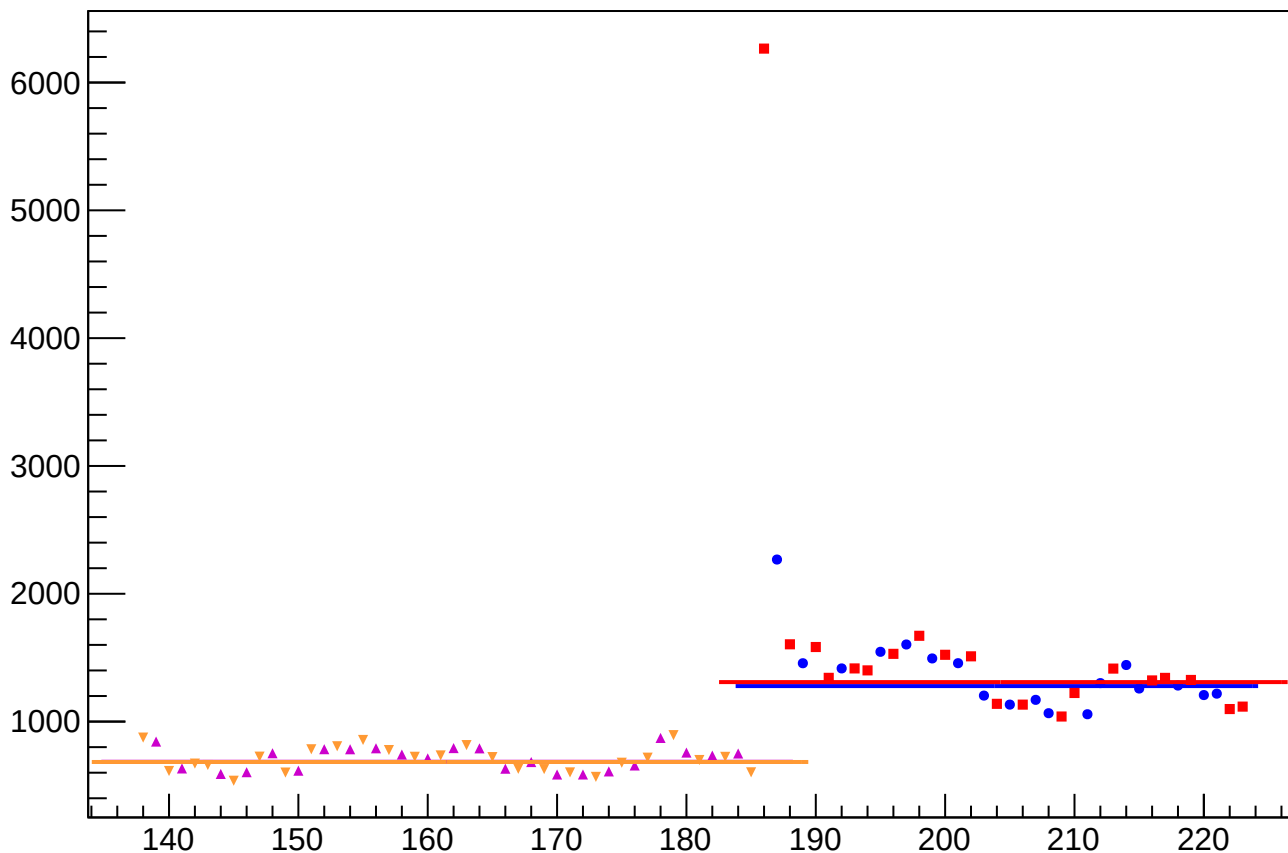
Right: 321.128 ± 253.250 $\chi^2/\text{NDF}: 142.2/37$

In: -187.368 ± 150.061 $\chi^2/\text{NDF}: 71.5/40$

Out: -207.891 ± 147.179 $\chi^2/\text{NDF}: 164.2/44$

All: -197.829 ± 105.075 $\chi^2/\text{NDF}: 235.6/85$

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1277.738 $\pm$ 0.250 χ^2 /NDF: 446516.2/17

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1308.931 $\pm$ 0.256 χ^2 /NDF: 983791.1/19

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

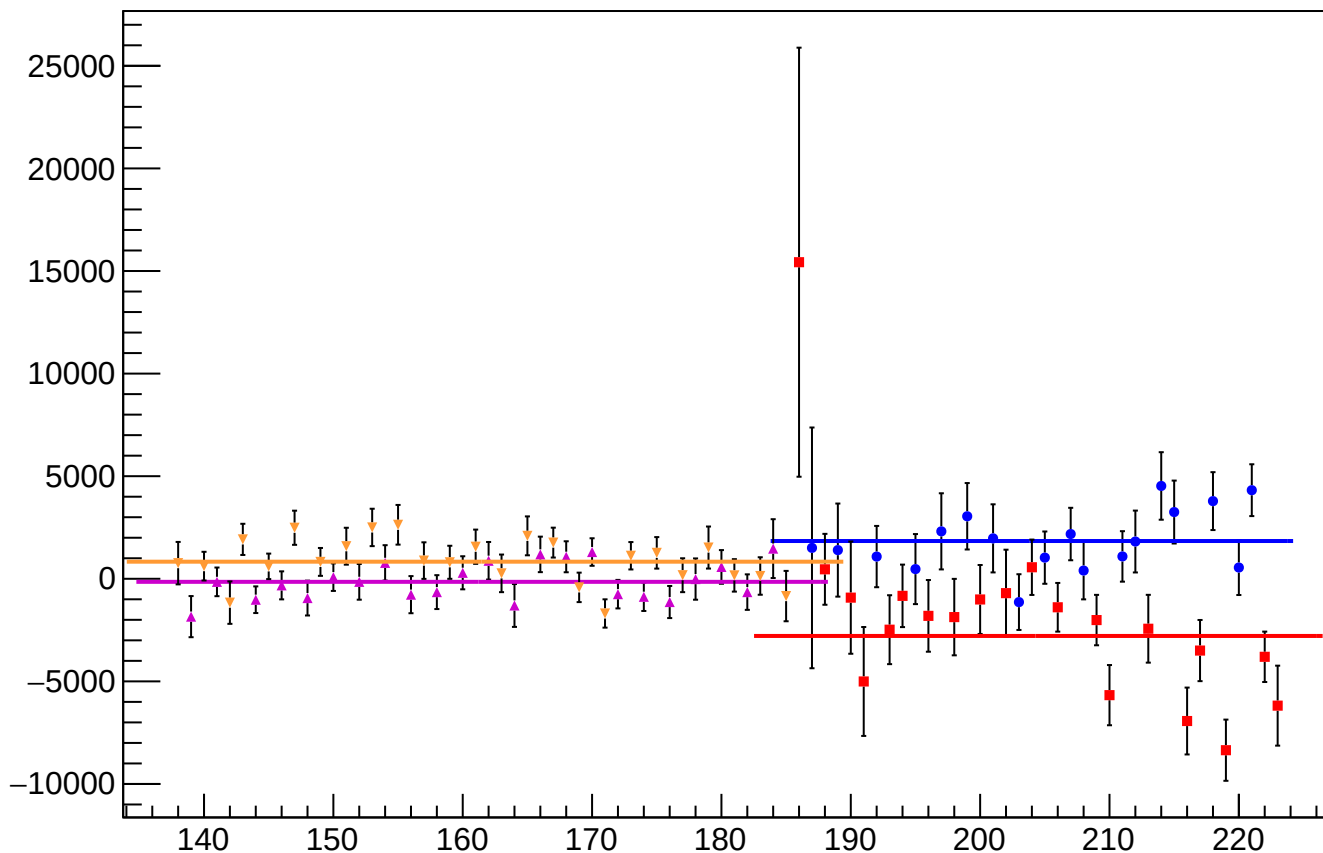
Right: 1292.977 $\pm$ 0.179 χ^2 /NDF: 1437888.6/37

In: 791.925 $\pm$ 0.106 χ^2 /NDF: 5563957.7/40

Out: 787.021 $\pm$ 0.104 χ^2 /NDF: 6620835.0/44

All: 789.426 $\pm$ 0.074 χ^2 /NDF: 12185881.4/85

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1840.598 ± 355.565 $\chi^2/\text{NDF}: 18.5/17$

Left Out: 833.395 ± 162.965 $\chi^2/\text{NDF}: 43.2/24$

Right Out: -2786.132 ± 363.844 $\chi^2/\text{NDF}: 48.3/19$

Left In: -148.814 ± 167.644 $\chi^2/\text{NDF}: 26.0/22$

Left: 356.189 ± 116.853 $\chi^2/\text{NDF}: 86.9/47$

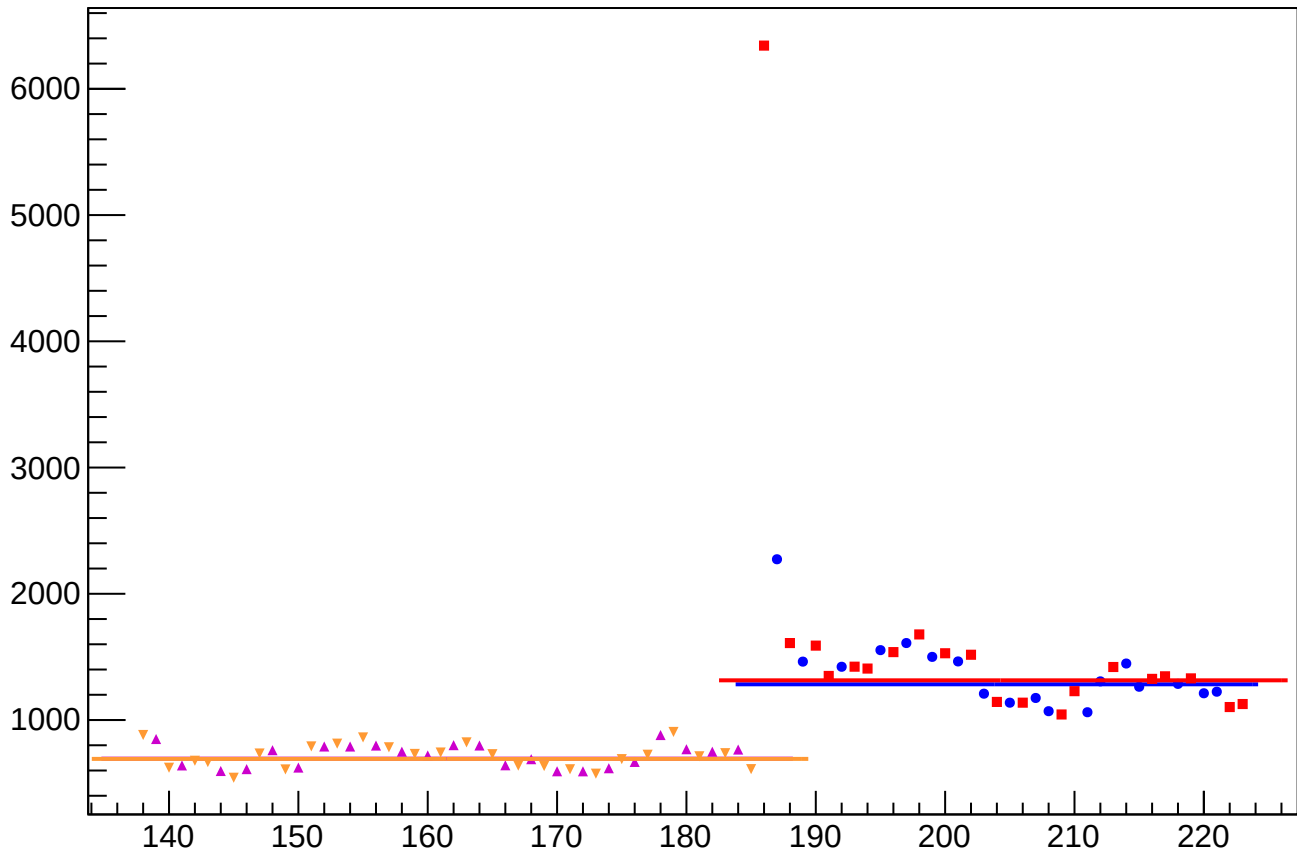
Right: -419.528 ± 254.299 $\chi^2/\text{NDF}: 149.4/37$

In: 213.001 ± 151.635 $\chi^2/\text{NDF}: 70.1/40$

Out: 228.600 ± 148.728 $\chi^2/\text{NDF}: 173.9/44$

All: 220.952 ± 106.179 $\chi^2/\text{NDF}: 244.0/85$

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1282.968 $\pm$ 0.251 χ^2 /NDF: 446940.2/17

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1314.434 $\pm$ 0.257 χ^2 /NDF: 984846.9/19

Left In: 693.867 $\pm$ 0.119 χ^2 /NDF: 522053.5/22

Left: 692.957 $\pm$ 0.083 χ^2 /NDF: 1179427.7/47

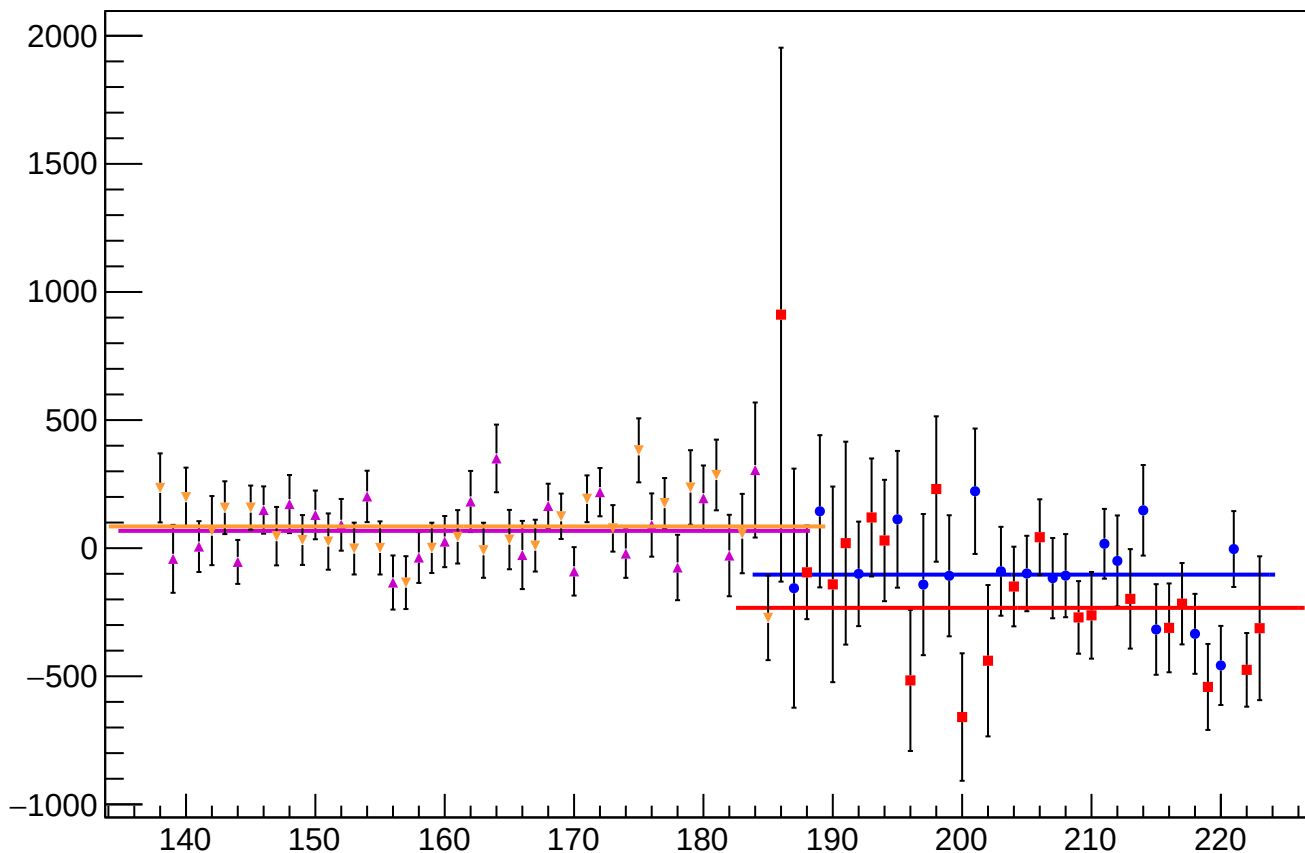
Right: 1298.339 $\pm$ 0.180 χ^2 /NDF: 1439438.2/37

In: 801.007 $\pm$ 0.107 χ^2 /NDF: 5460532.3/40

Out: 796.084 $\pm$ 0.105 χ^2 /NDF: 6515693.5/44

All: 798.498 $\pm$ 0.075 χ^2 /NDF: 11977300.1/85

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -103.256 ± 43.108 $\chi^2/\text{NDF}: 15.4/17$

Left Out: 84.860 ± 21.643 $\chi^2/\text{NDF}: 28.5/24$

Right Out: -232.927 ± 44.638 $\chi^2/\text{NDF}: 23.4/19$

Left In: 67.552 ± 22.449 $\chi^2/\text{NDF}: 28.9/22$

Left: 76.522 ± 15.581 $\chi^2/\text{NDF}: 57.7/47$

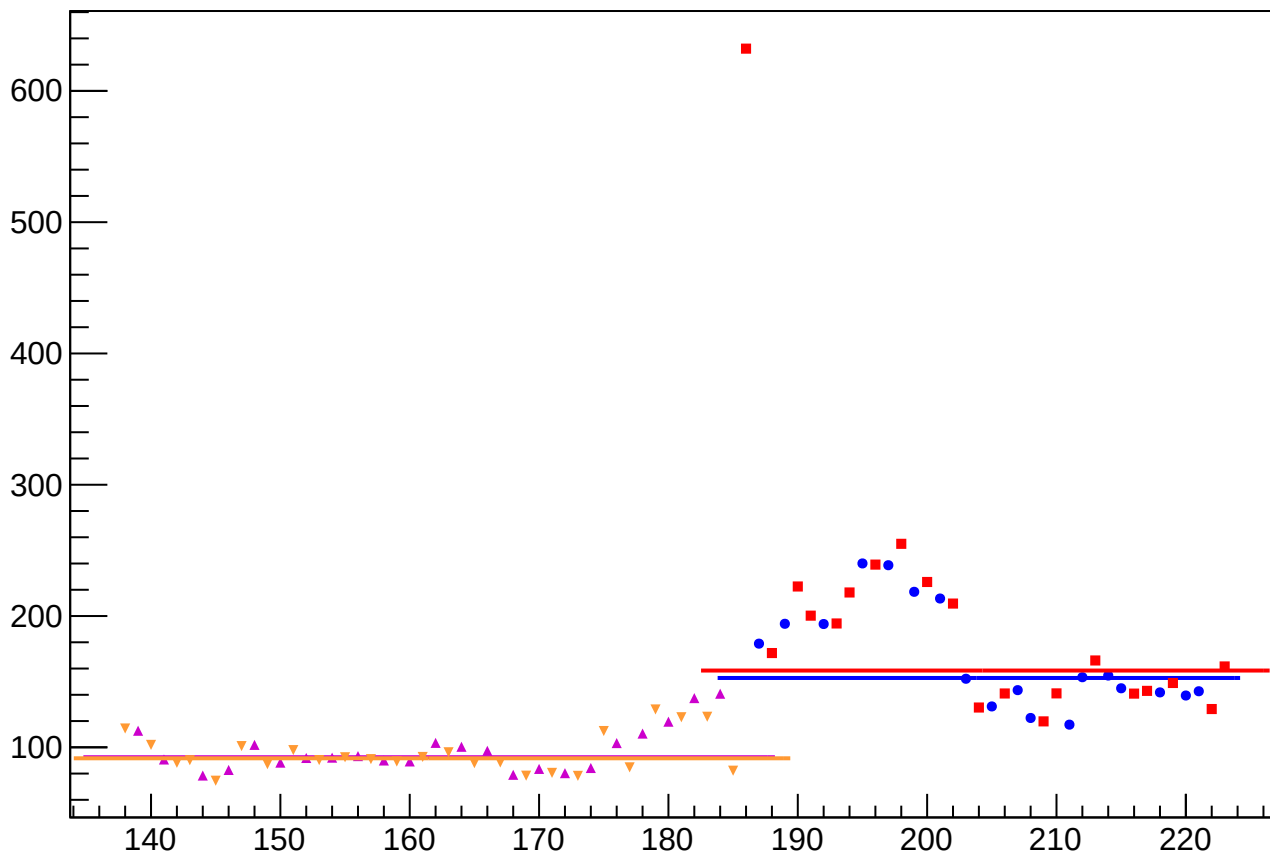
Right: -165.830 ± 31.009 $\chi^2/\text{NDF}: 43.2/37$

In: 31.112 ± 19.911 $\chi^2/\text{NDF}: 56.6/40$

Out: 24.374 ± 19.475 $\chi^2/\text{NDF}: 92.9/44$

All: 27.668 ± 13.922 $\chi^2/\text{NDF}: 149.6/85$

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 152.814 $\pm$ 0.030 χ^2 /NDF: 1106337.7/17

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 158.477 $\pm$ 0.032 χ^2 /NDF: 1683332.8/19

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

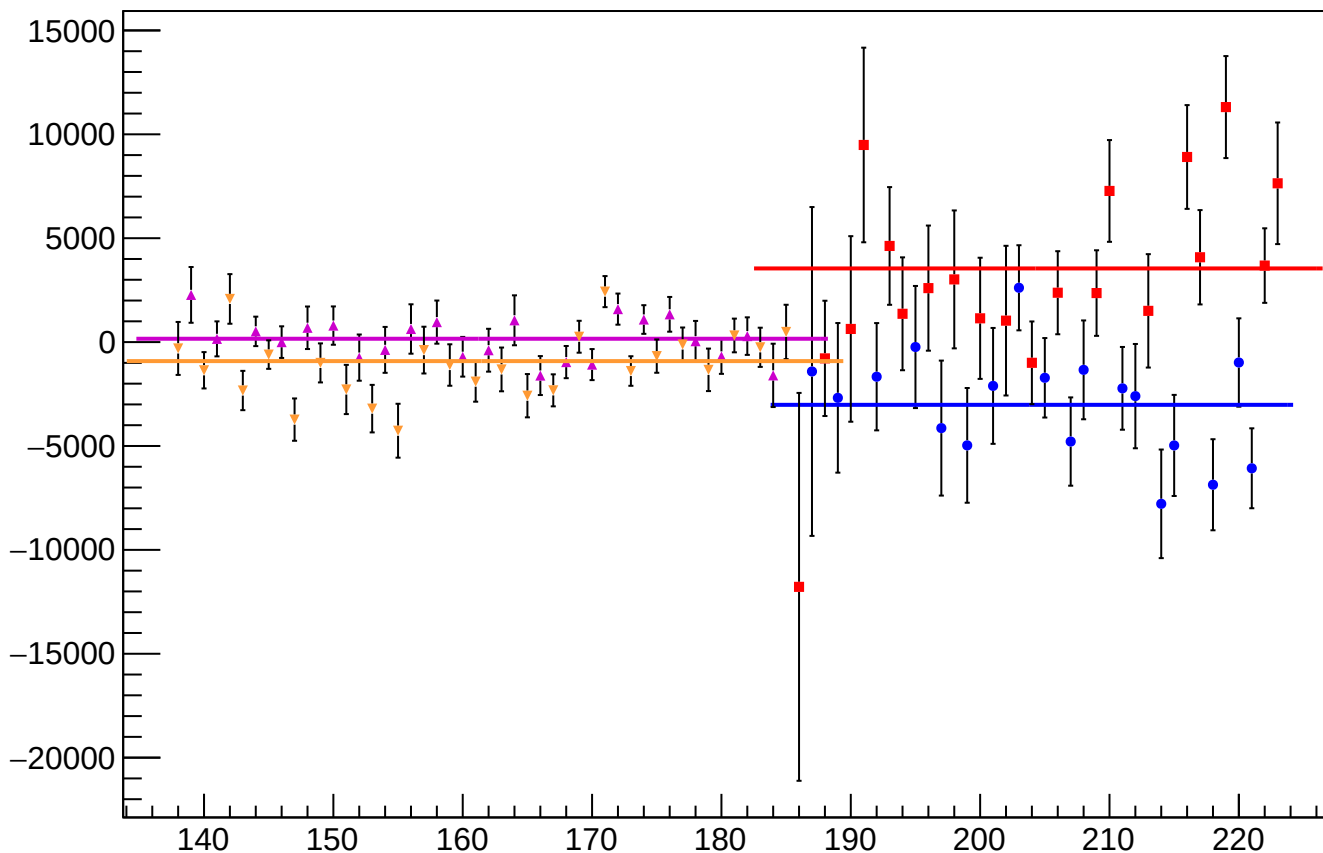
Right: 155.547 $\pm$ 0.022 χ^2 /NDF: 2806321.5/37

In: 105.341 $\pm$ 0.014 χ^2 /NDF: 4845488.5/40

Out: 104.355 $\pm$ 0.014 χ^2 /NDF: 6007594.4/44

All: 104.837 $\pm$ 0.010 χ^2 /NDF: 10855586.3/85

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -3019.402 $\pm$ 572.645 χ^2 /NDF: 21.8/17

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF:64.2/24

Right Out: 3545.023 $\pm$ 589.188 χ^2 /NDF: 34.7/19

Left In: 161.076 $\pm$ 189.491 χ^2 /NDF:25.1/22

Left: -388.730 $\pm$ 132.499 χ^2 /NDF: 105.7/47

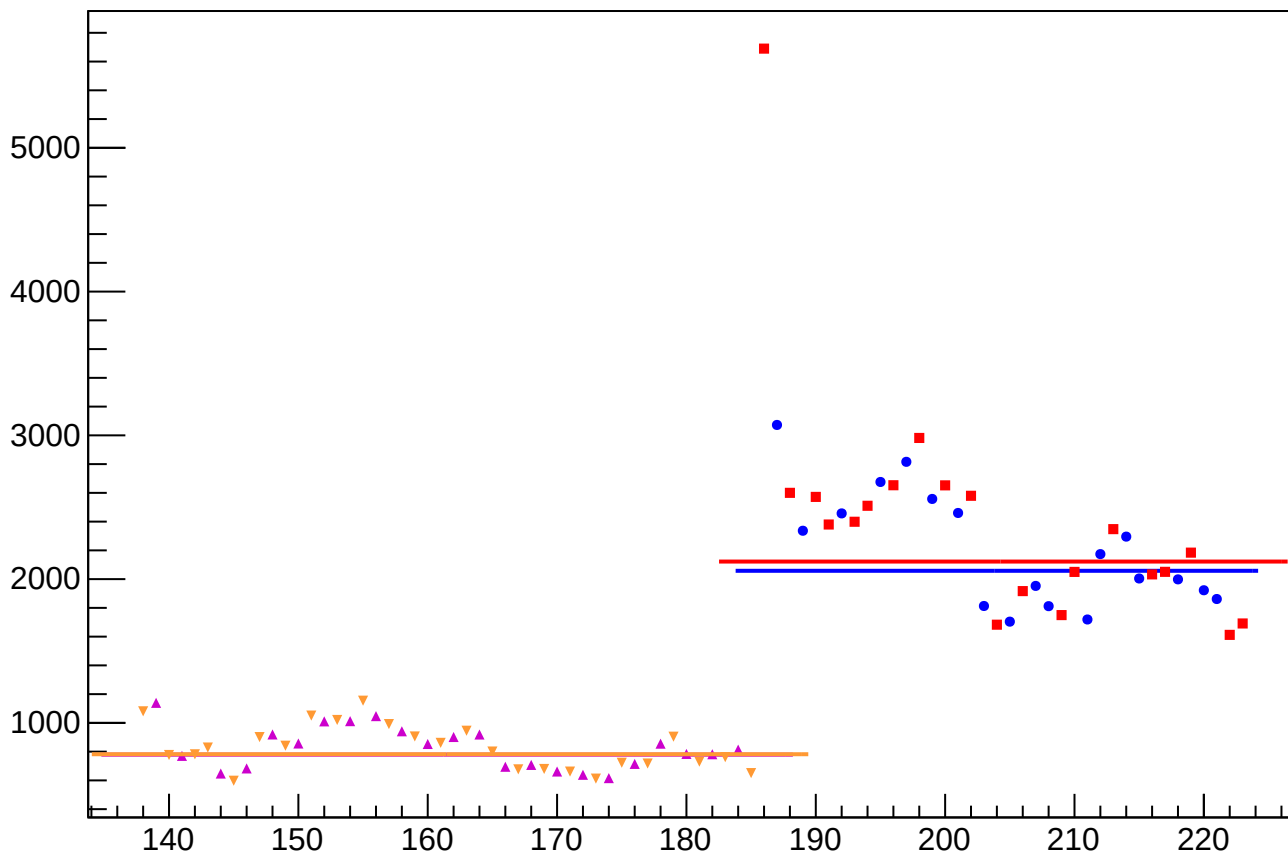
Right: 169.360 $\pm$ 410.645 χ^2 /NDF: 120.3/37

In: -152.809 $\pm$ 179.897 χ^2 /NDF:74.7/40

Out: -513.146 $\pm$ 176.800 χ^2 /NDF:151.0/44

All: -336.107 $\pm$ 126.097 χ^2 /NDF: 227.7/85

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2057.892 $\pm$ 0.405 χ^2 /NDF: 630431.3/17

Left Out: 782.042 $\pm$ 0.131 χ^2 /NDF: 1130984.3/24

Right Out: 2122.229 $\pm$ 0.417 χ^2 /NDF: 1142663.3/19

Left In: 778.995 $\pm$ 0.134 χ^2 /NDF: 980243.4/22

Left: 780.552 $\pm$ 0.094 χ^2 /NDF: 2111492.1/47

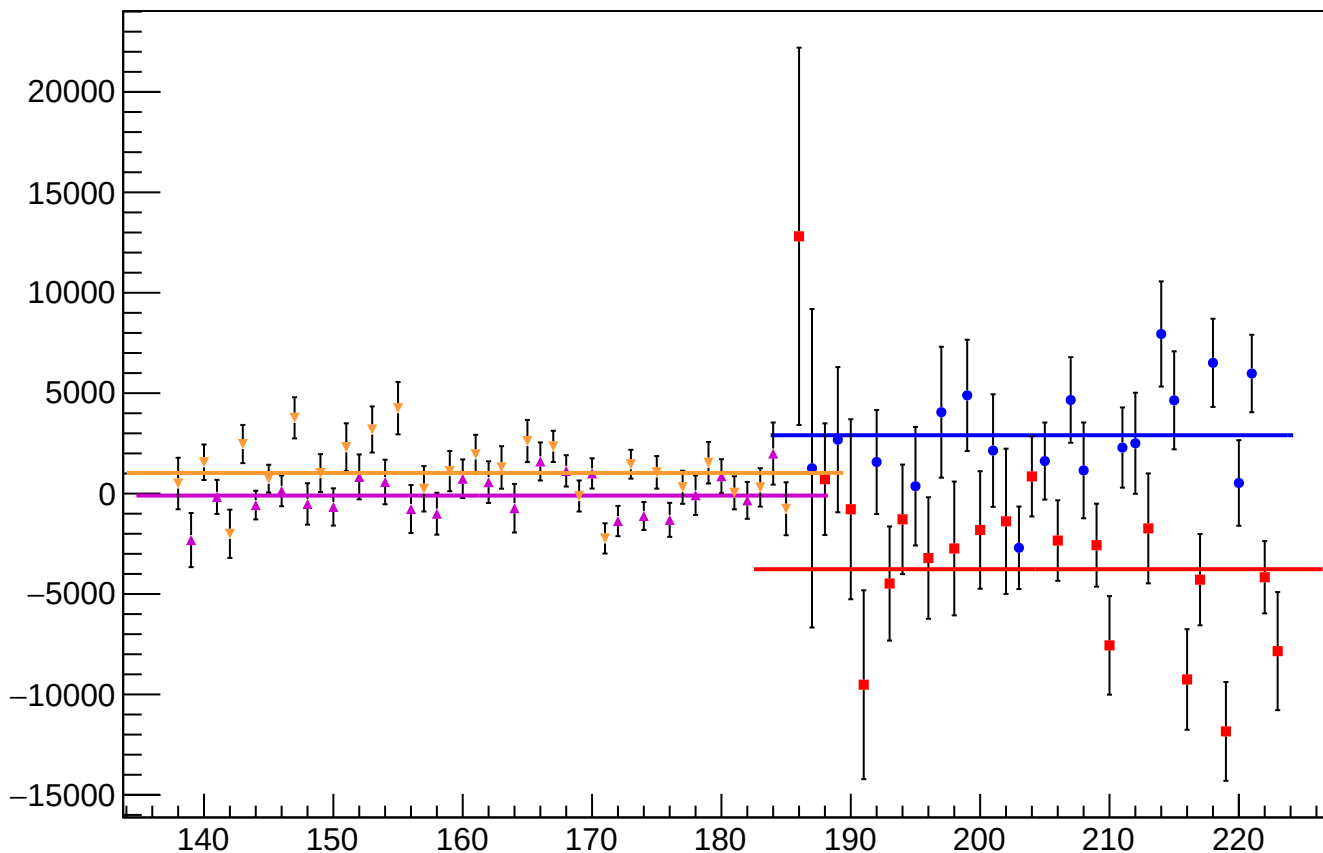
Right: 2089.145 $\pm$ 0.290 χ^2 /NDF: 1785357.9/37

In: 905.211 $\pm$ 0.127 χ^2 /NDF: 10601601.7/40

Out: 902.718 $\pm$ 0.125 χ^2 /NDF: 11689805.8/44

All: 903.942 $\pm$ 0.089 χ^2 /NDF: 22291602.9/85

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2905.186 $\pm$ 574.407 χ^2 /NDF: 21.7/17

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -3765.610 $\pm$ 591.046 χ^2 /NDF: 36.3/19

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

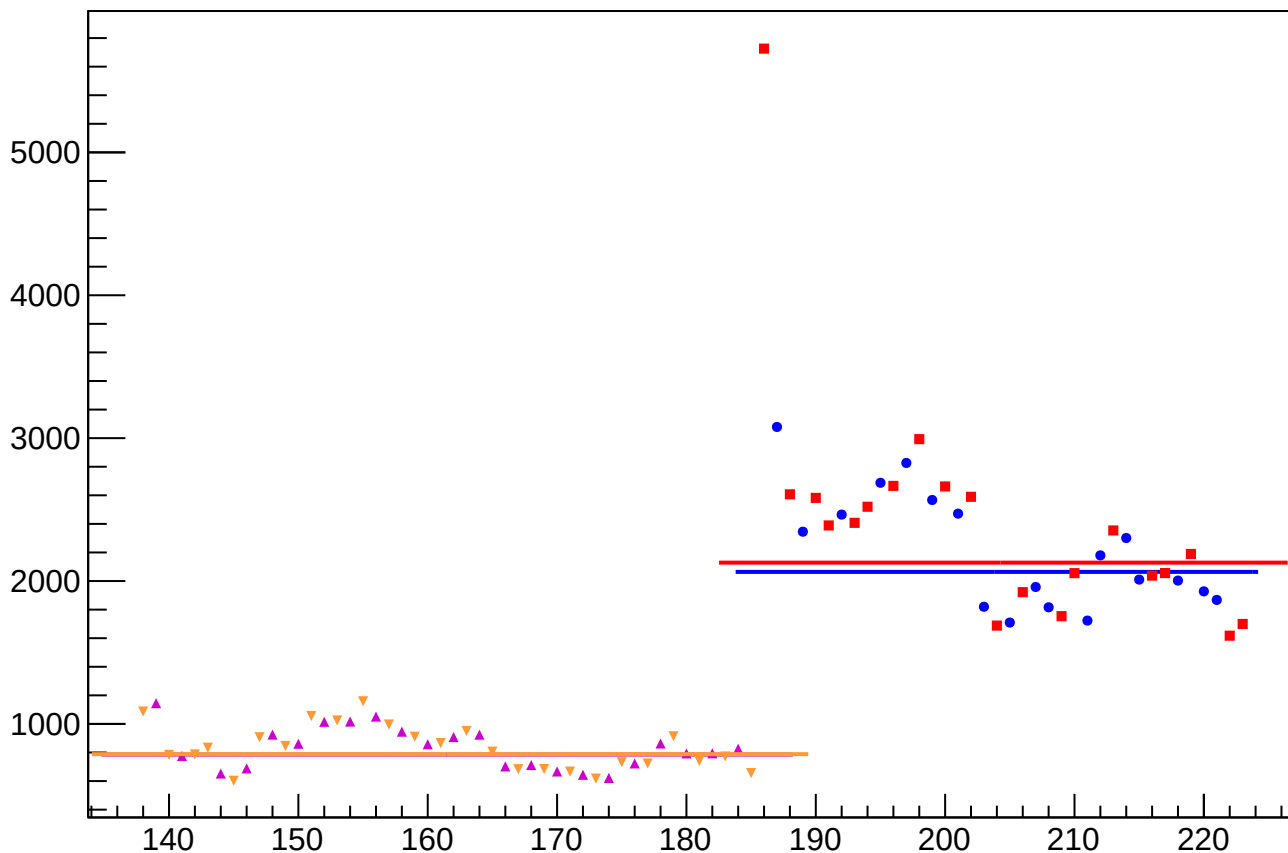
Right: -334.995 $\pm$ 411.924 χ^2 /NDF: 123.5/37

In: 200.449 $\pm$ 181.266 χ^2 /NDF:71.7/40

Out: 593.405 $\pm$ 178.125 χ^2 /NDF:156.3/44

All: 400.361 $\pm$ 127.049 χ^2 /NDF: 230.3/85

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2064.133+/-0.406 χ^2/NDF : 632871.7/17

Left Out: 788.442+/-0.132 χ^2/NDF : 1113741.6/24

Right Out: 2128.813+/-0.418 χ^2/NDF : 1145583.6/19

Left In: 785.490+/-0.135 χ^2/NDF : 965338.9/22

Left: 786.999+/-0.094 χ^2/NDF : 2079324.6/47

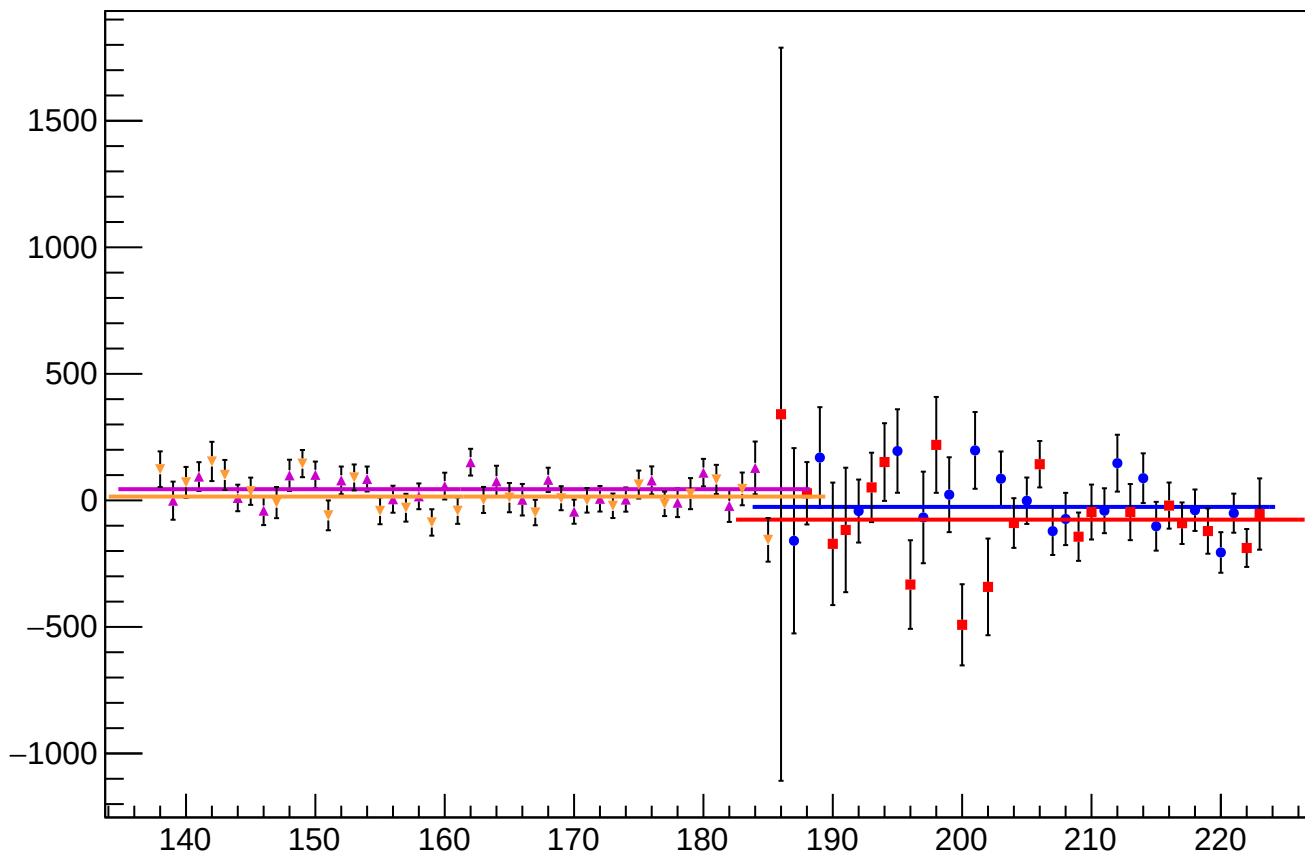
Right: 2095.550+/-0.291 χ^2/NDF : 1790772.8/37

In: 912.824+/-0.128 χ^2/NDF : 10521642.4/40

Out: 910.181+/-0.126 χ^2/NDF : 11610910.4/44

All: 911.479+/-0.090 χ^2/NDF : 22132769.0/85

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: -25.727 ± 25.359 $\chi^2/\text{NDF}: 17.1/17$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -76.052 ± 26.319 $\chi^2/\text{NDF}: 26.6/19$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

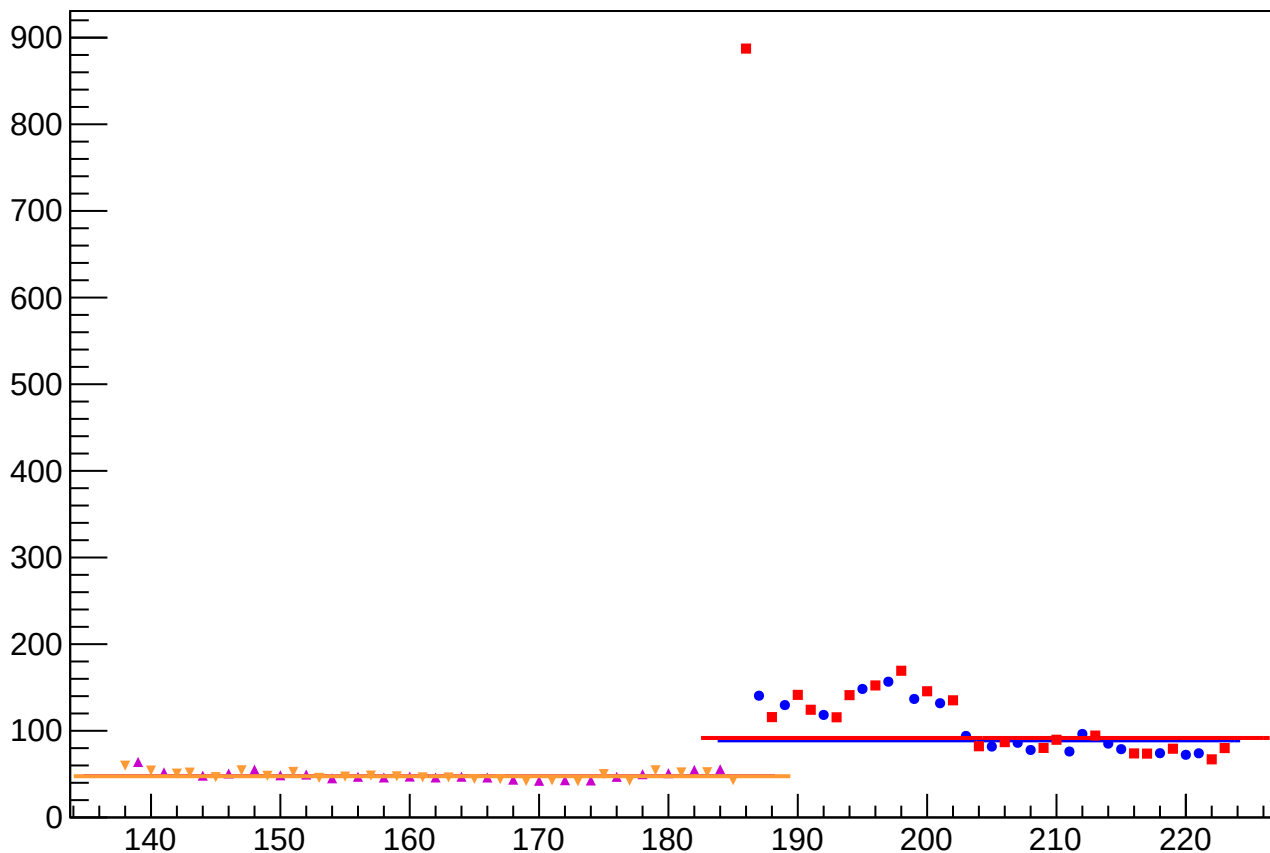
Right: -49.955 ± 18.261 $\chi^2/\text{NDF}: 45.6/37$

In: 32.302 ± 10.496 $\chi^2/\text{NDF}: 45.7/40$

Out: 1.220 ± 10.270 $\chi^2/\text{NDF}: 70.9/44$

All: 16.423 ± 7.341 $\chi^2/\text{NDF}: 121.2/85$

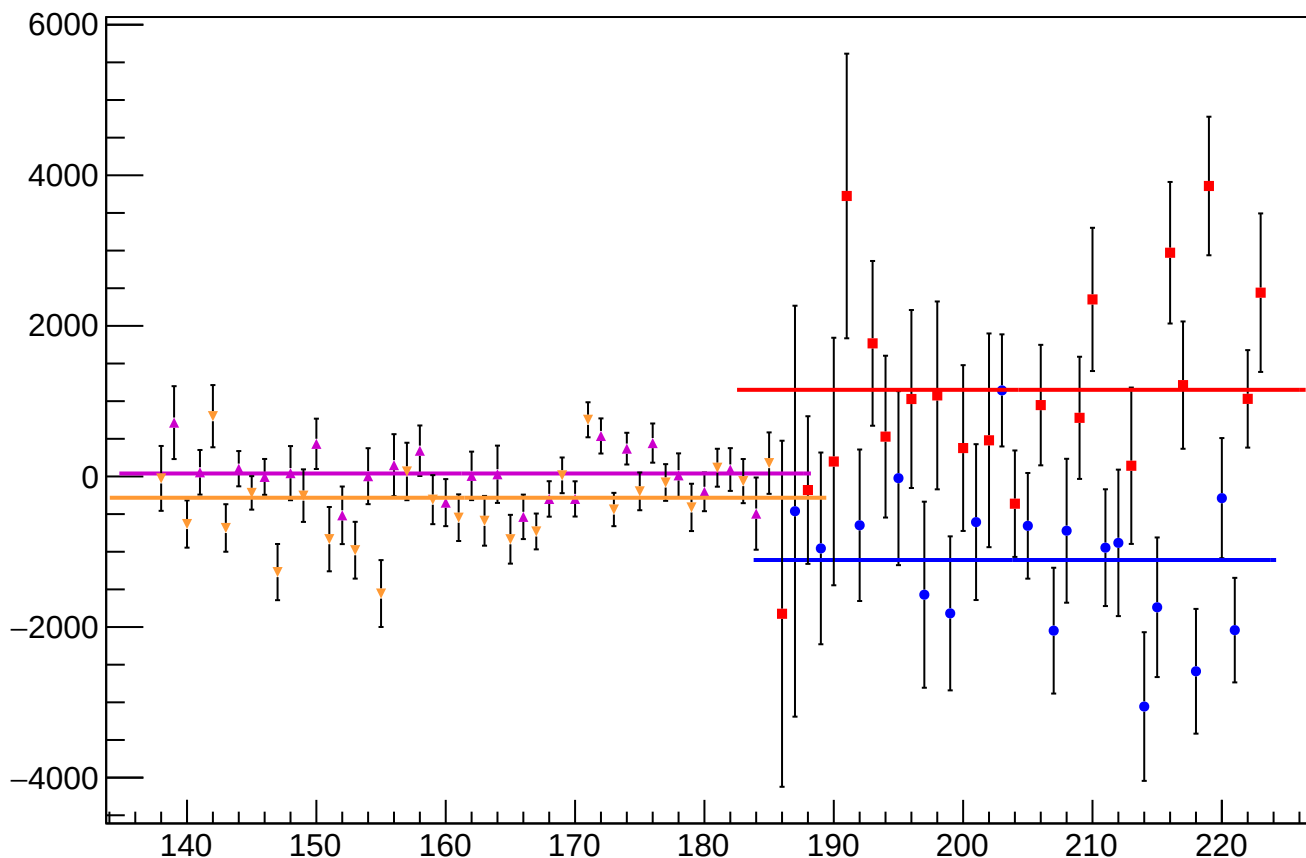
reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 88.974+/-0.018 χ^2/NDF : 1485752.9/17
 Left Out: 47.586+/-0.008 χ^2/NDF : 312874.8/24
 Right Out: 91.741+/-0.019 χ^2/NDF : 2469887.1/19
 Left In: 47.846+/-0.008 χ^2/NDF : 281790.1/22

Left: 47.712+/-0.006 χ^2/NDF : 595189.7/47
 Right: 90.306+/-0.013 χ^2/NDF : 3967104.2/37
 In: 54.892+/-0.007 χ^2/NDF : 6127136.4/40
 Out: 54.309+/-0.007 χ^2/NDF : 7554839.1/44
 All: 54.594+/-0.005 χ^2/NDF : 13685118.0/85

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -1109.582 $\pm$ 216.143 χ^2 /NDF: 23.5/17

Left Out: -282.798 $\pm$ 59.690 χ^2 /NDF:66.5/24

Right Out: 1150.610 $\pm$ 221.549 χ^2 /NDF: 28.4/19

Left In: 39.432 $\pm$ 60.759 χ^2 /NDF:27.5/22

Left: -124.543 $\pm$ 42.580 χ^2 /NDF: 108.4/47

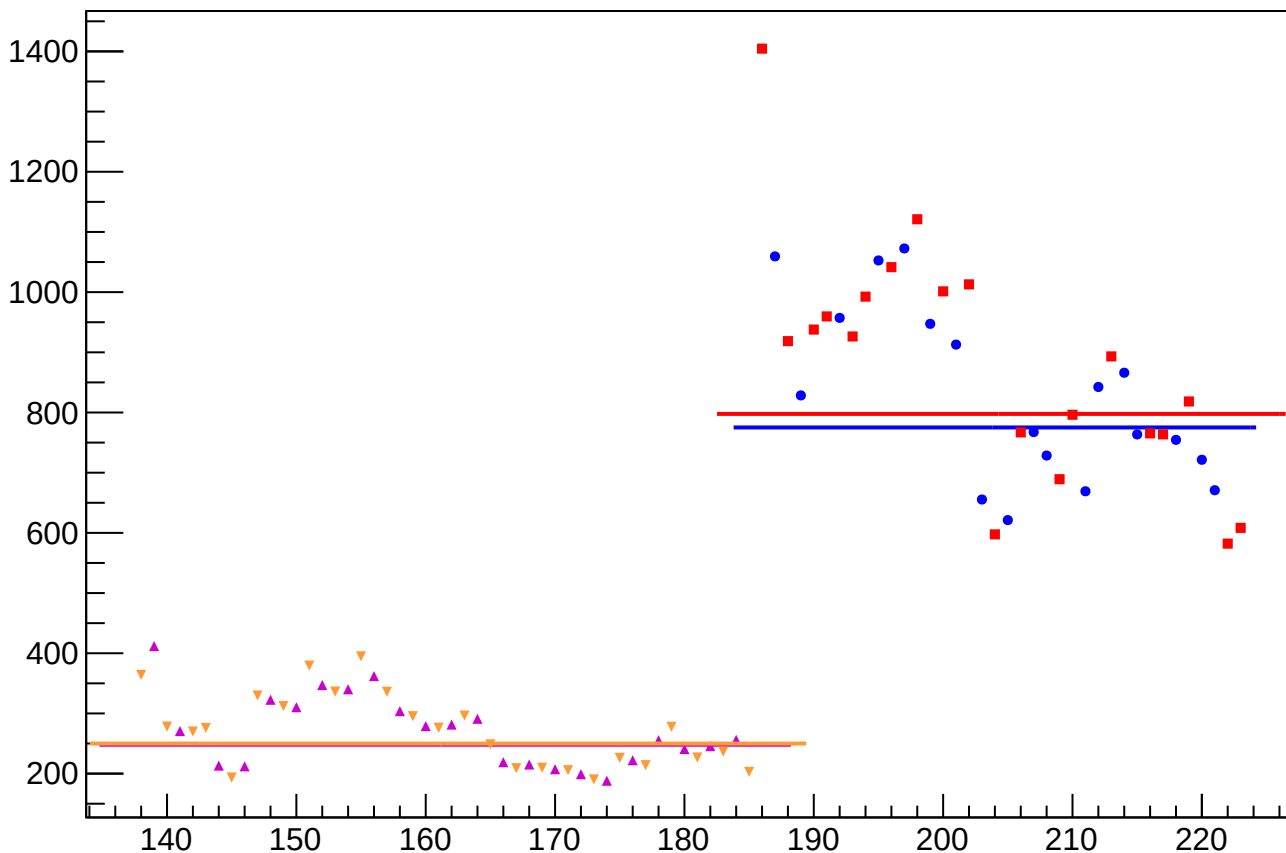
Right: -7.398 $\pm$ 154.712 χ^2 /NDF: 105.3/37

In: -44.714 $\pm$ 58.492 χ^2 /NDF:77.2/40

Out: -185.792 $\pm$ 57.635 χ^2 /NDF:134.0/44

All: -116.294 $\pm$ 41.054 χ^2 /NDF: 214.2/85

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 775.154 $\pm$ 0.153 χ^2 /NDF: 686508.6/17

Left Out: 249.956 $\pm$ 0.042 χ^2 /NDF: 1614205.9/24

Right Out: 797.676 $\pm$ 0.157 χ^2 /NDF: 1135414.5/19

Left In: 247.917 $\pm$ 0.043 χ^2 /NDF: 1410847.5/22

Left: 248.955 $\pm$ 0.030 χ^2 /NDF: 3026200.1/47

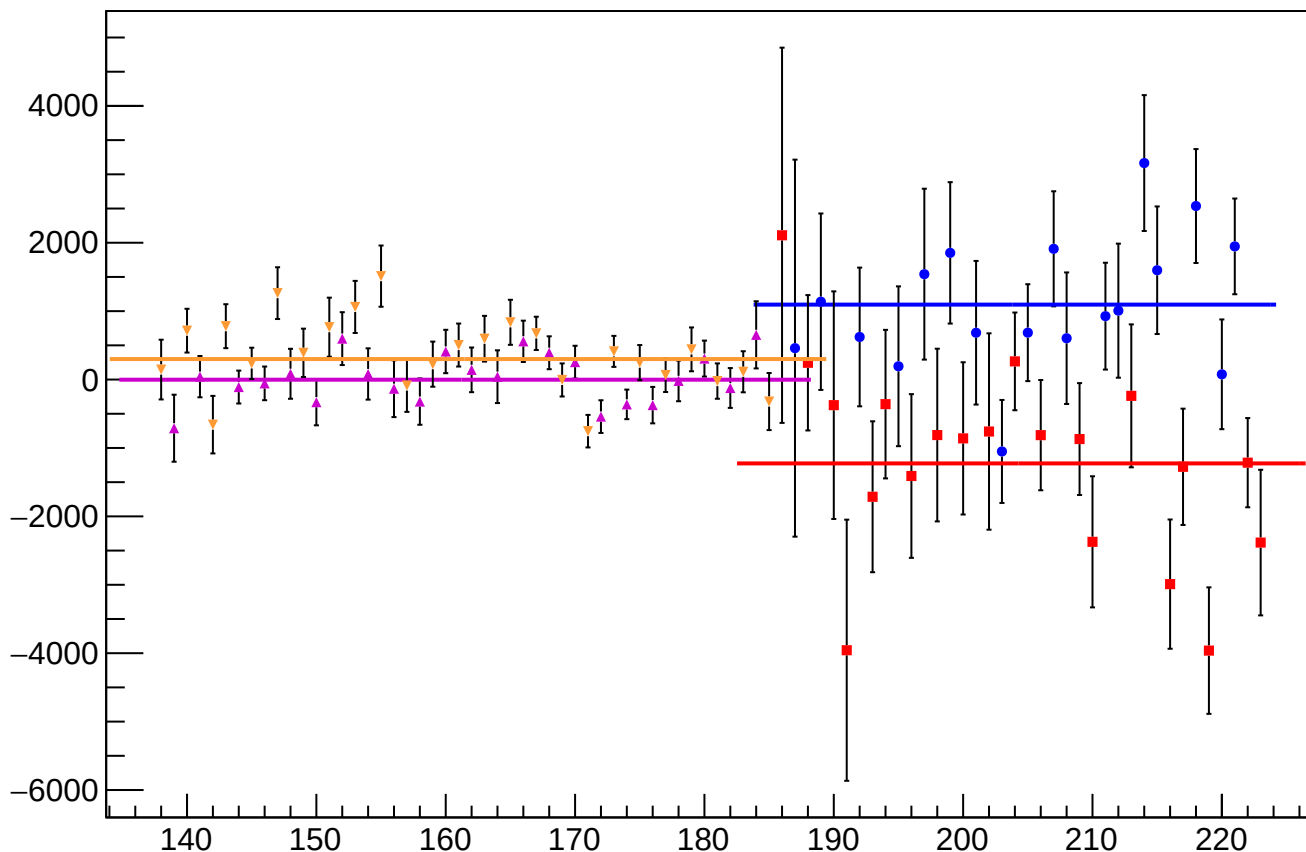
Right: 786.137 $\pm$ 0.109 χ^2 /NDF: 1832512.2/37

In: 286.528 $\pm$ 0.041 χ^2 /NDF: 13126244.7/40

Out: 287.023 $\pm$ 0.041 χ^2 /NDF: 14146232.3/44

All: 286.780 $\pm$ 0.029 χ^2 /NDF: 27272549.8/83

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 1095.453 $\pm$ 217.887 χ^2 /NDF: 22.1/17

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: -1225.819 $\pm$ 223.658 χ^2 /NDF: 27.7/19

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

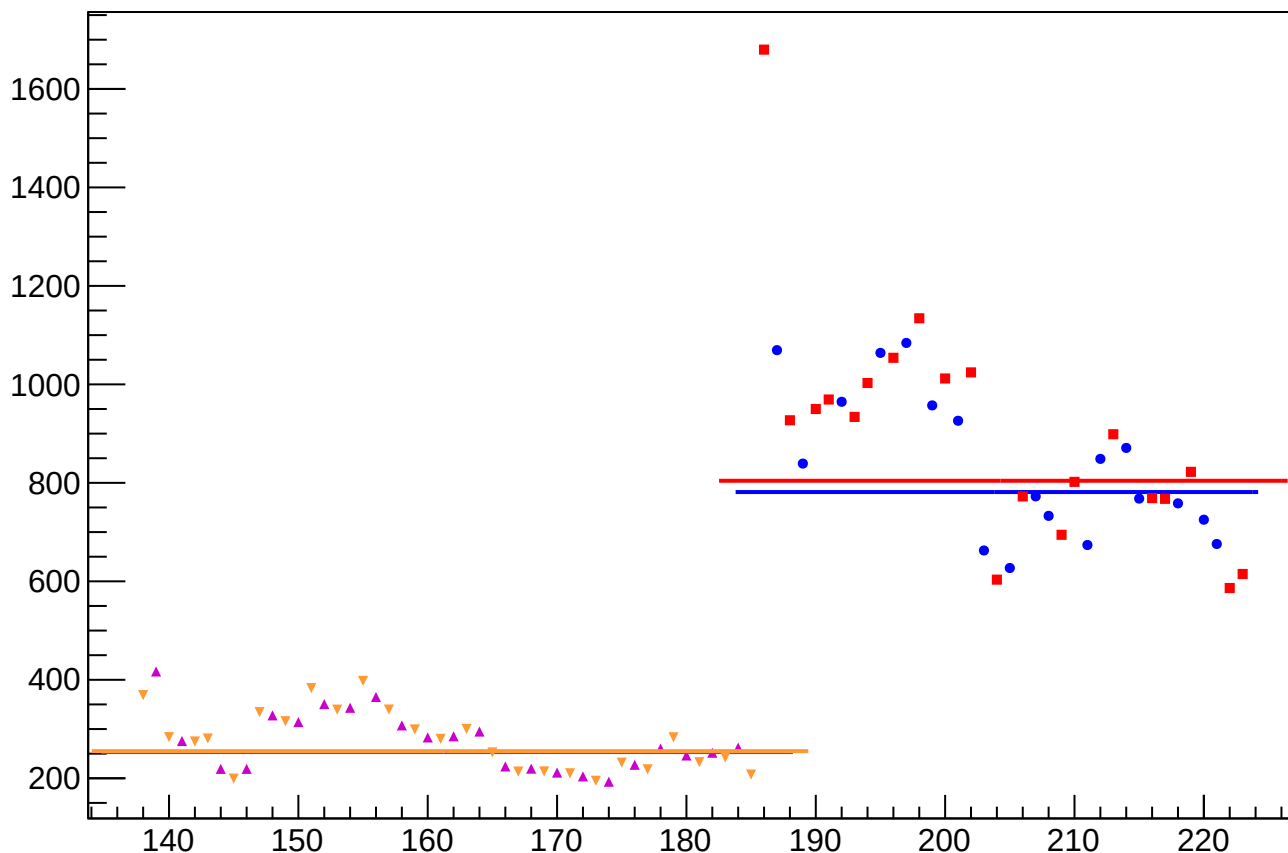
Right: -34.852 $\pm$ 156.070 χ^2 /NDF: 105.1/37

In: 80.044 $\pm$ 59.637 χ^2 /NDF:74.8/40

Out: 194.403 $\pm$ 58.724 χ^2 /NDF:133.5/44

All: 138.105 $\pm$ 41.843 χ^2 /NDF: 210.2/85

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 781.322 $\pm$ 0.154 χ^2 /NDF: 692715.5/17

Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF: 1542039.5/24

Right Out: 804.224 $\pm$ 0.158 χ^2 /NDF: 1207512.8/19

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

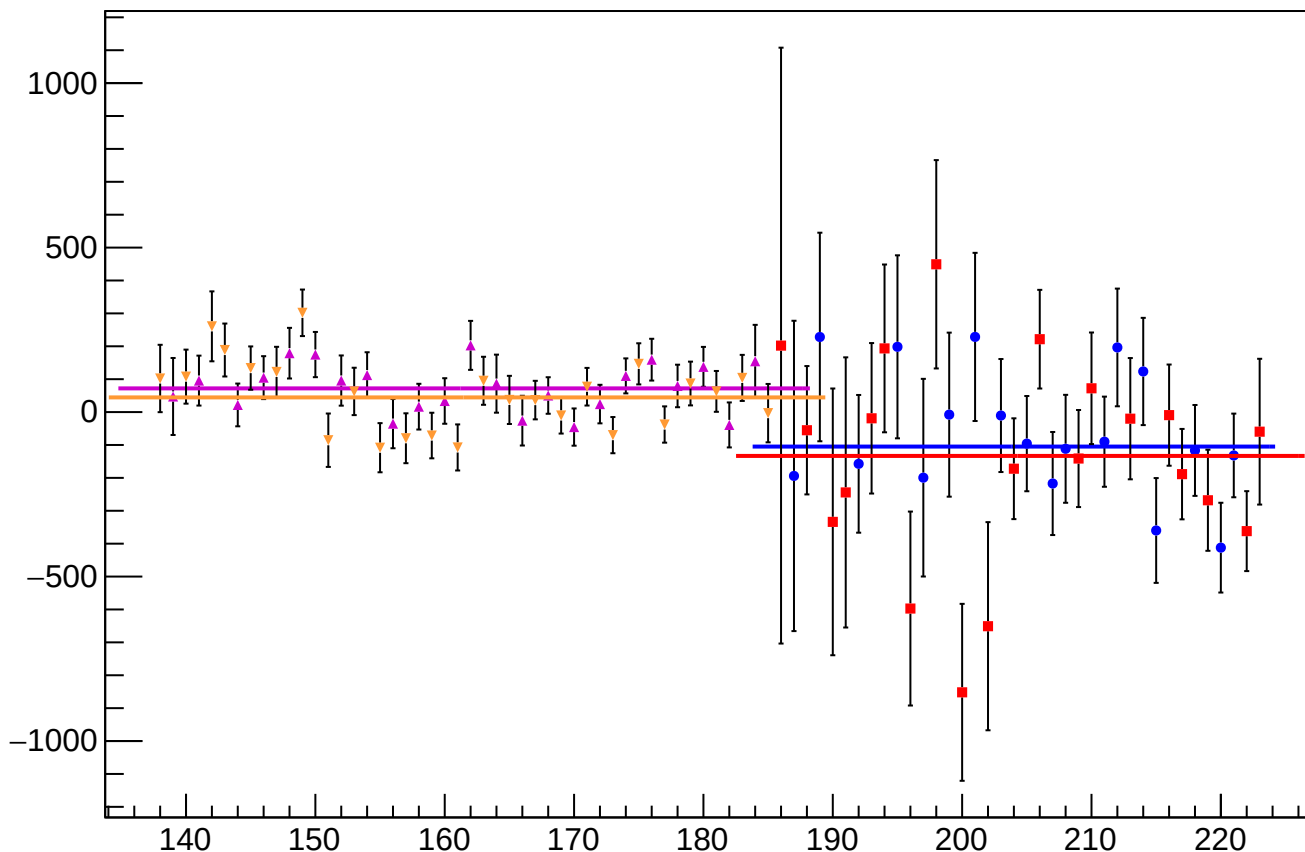
Right: 792.474 $\pm$ 0.110 χ^2 /NDF: 1910987.7/37

In: 292.845 $\pm$ 0.042 χ^2 /NDF: 12900462.1/40

Out: 292.989 $\pm$ 0.042 χ^2 /NDF: 13972976.3/44

All: 292.918 $\pm$ 0.030 χ^2 /NDF: 26873444.4/83

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -104.839 ± 41.462 $\chi^2/\text{NDF}: 17.7/17$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -133.262 ± 42.945 $\chi^2/\text{NDF}: 30.9/19$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

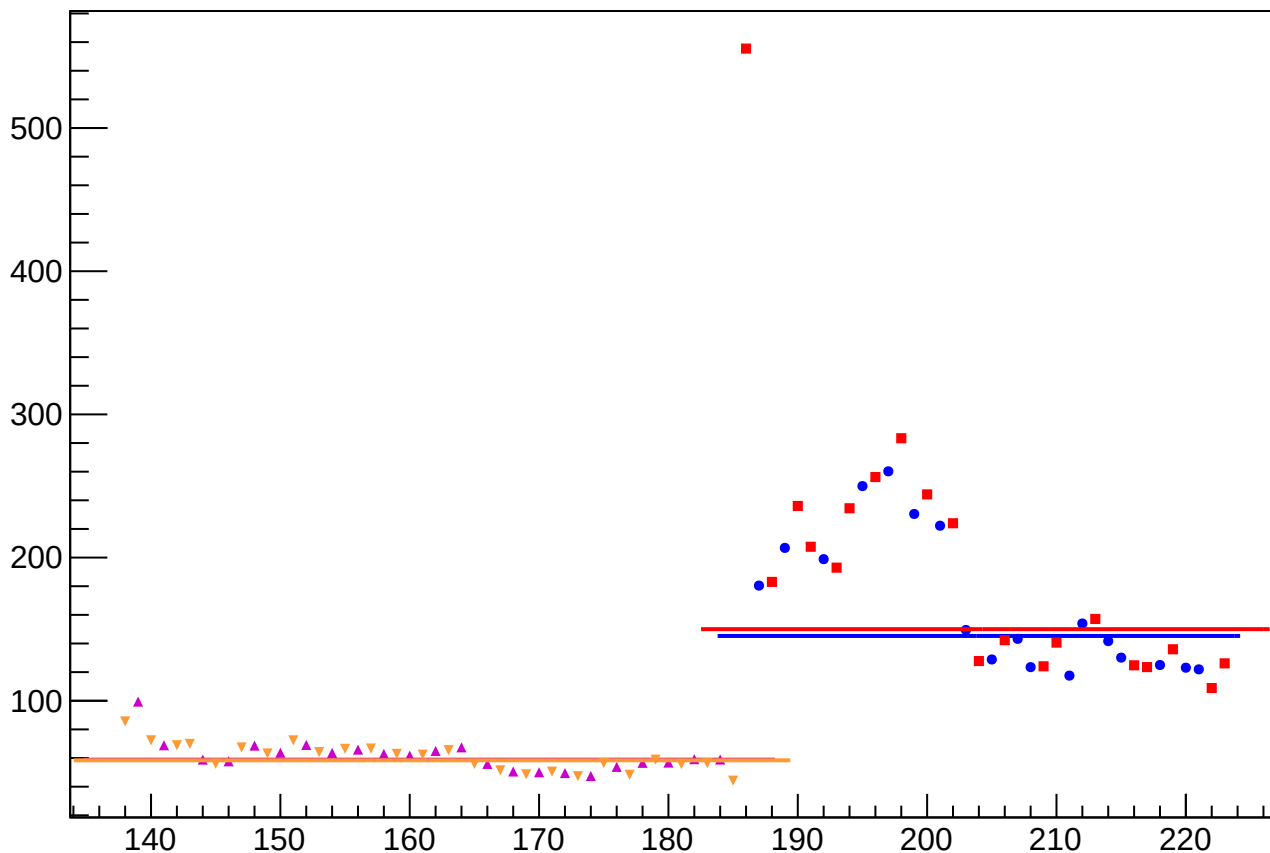
Right: -118.552 ± 29.828 $\chi^2/\text{NDF}: 48.8/37$

In: 53.243 ± 13.515 $\chi^2/\text{NDF}: 59.2/40$

Out: 27.901 ± 13.159 $\chi^2/\text{NDF}: 100.4/44$

All: 40.234 ± 9.428 $\chi^2/\text{NDF}: 161.4/85$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 145.272 $\pm$ 0.029 χ^2 /NDF: 1540180.9/17

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 150.011 $\pm$ 0.030 χ^2 /NDF: 2361738.2/19

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

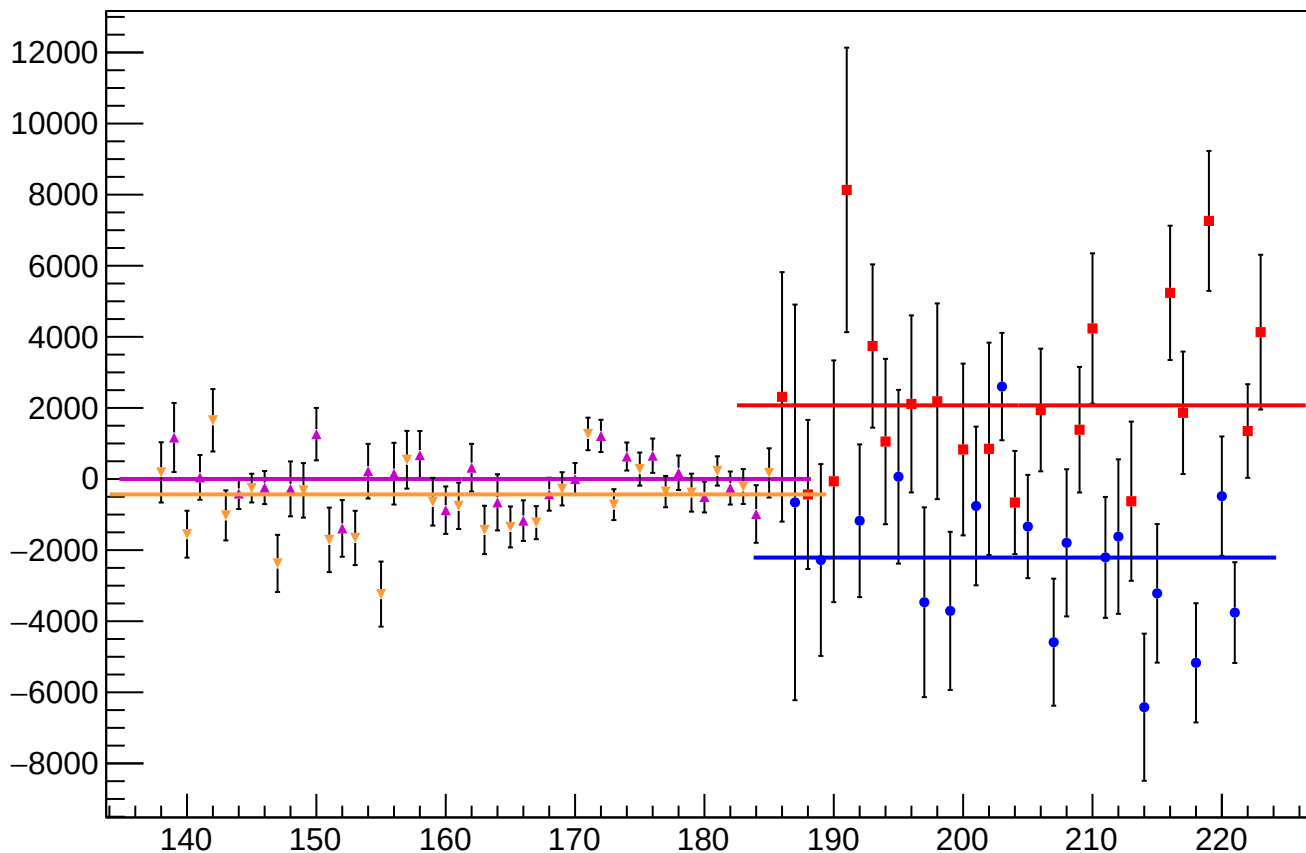
Right: 147.559 $\pm$ 0.021 χ^2 /NDF: 3914524.9/37

In: 68.024 $\pm$ 0.010 χ^2 /NDF: 9987855.6/40

Out: 67.023 $\pm$ 0.009 χ^2 /NDF: 11394596.0/44

All: 67.510 $\pm$ 0.007 χ^2 /NDF: 21388087.2/85

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -2209.754 ± 455.626 $\chi^2/\text{NDF}: 24.4/17$

Left Out: -432.330 ± 114.408 $\chi^2/\text{NDF}: 59.4/24$

Right Out: 2072.933 ± 464.974 $\chi^2/\text{NDF}: 22.4/19$

Left In: 1.825 ± 116.459 $\chi^2/\text{NDF}: 32.3/22$

Left: -219.109 ± 81.614 $\chi^2/\text{NDF}: 98.8/47$

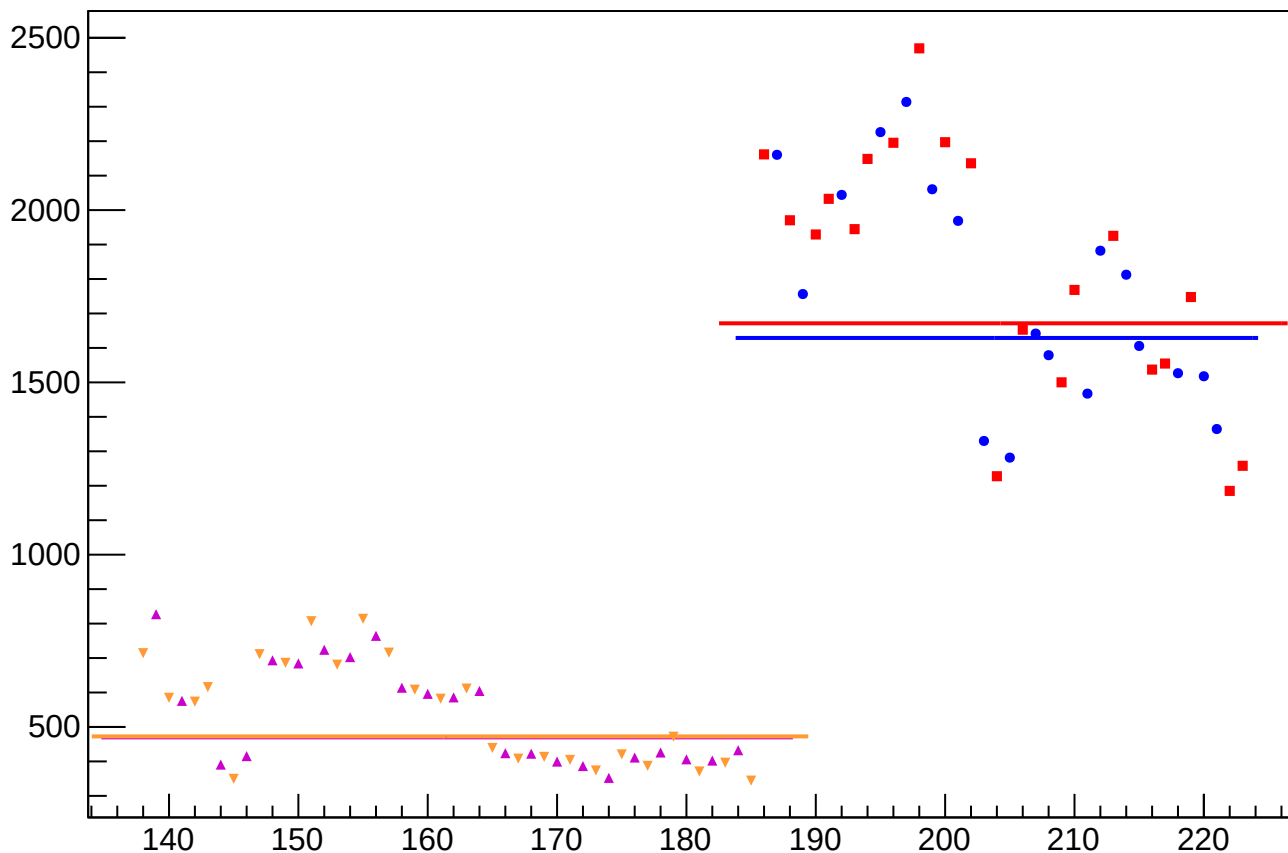
Right: -111.896 ± 325.431 $\chi^2/\text{NDF}: 90.2/37$

In: -133.802 ± 112.831 $\chi^2/\text{NDF}: 78.9/40$

Out: -289.315 ± 111.095 $\chi^2/\text{NDF}: 109.2/44$

All: -212.765 ± 79.163 $\chi^2/\text{NDF}: 189.0/85$

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1628.958+/-0.322 χ^2/NDF : 810955.9/17

Left Out: 472.569+/-0.081 χ^2/NDF :2508168.9/24

Right Out: 1671.458+/-0.329 χ^2/NDF : 1222518.4/19

Left In: 469.761+/-0.082 χ^2/NDF :2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

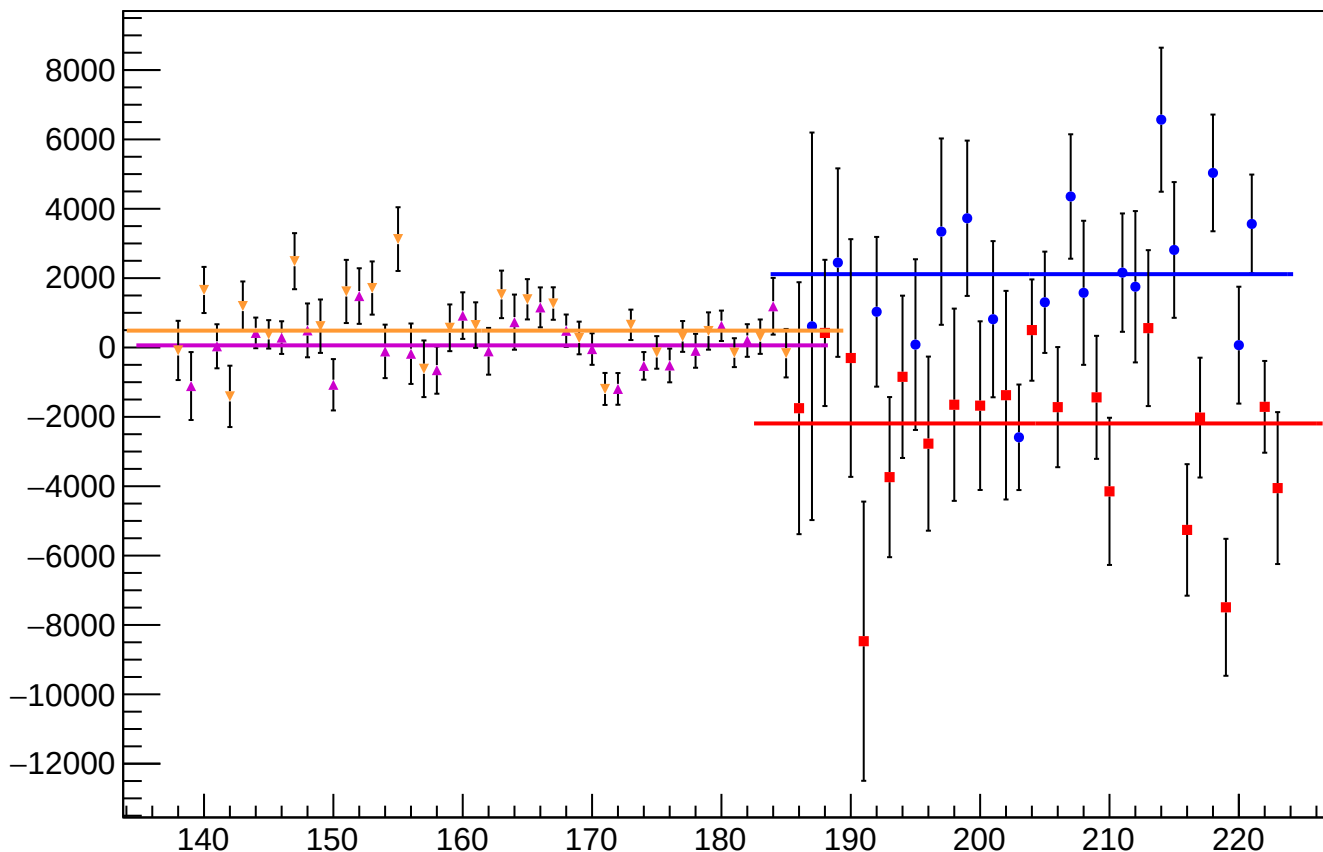
Right: 1649.776+/-0.230 χ^2/NDF : 2041998.6/37

In: 540.850+/-0.080 χ^2/NDF :15079694.4/40

Out: 541.008+/-0.079 χ^2/NDF :16267937.2/44

All: 540.930+/-0.056 χ^2/NDF : 31347633.6/85

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 2114.787 $\pm$ 457.828 χ^2 /NDF: 23.8/17

Left Out: 486.645 $\pm$ 115.346 χ^2 /NDF:56.0/24

Right Out: -2189.818 $\pm$ 467.458 χ^2 /NDF: 22.0/19

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

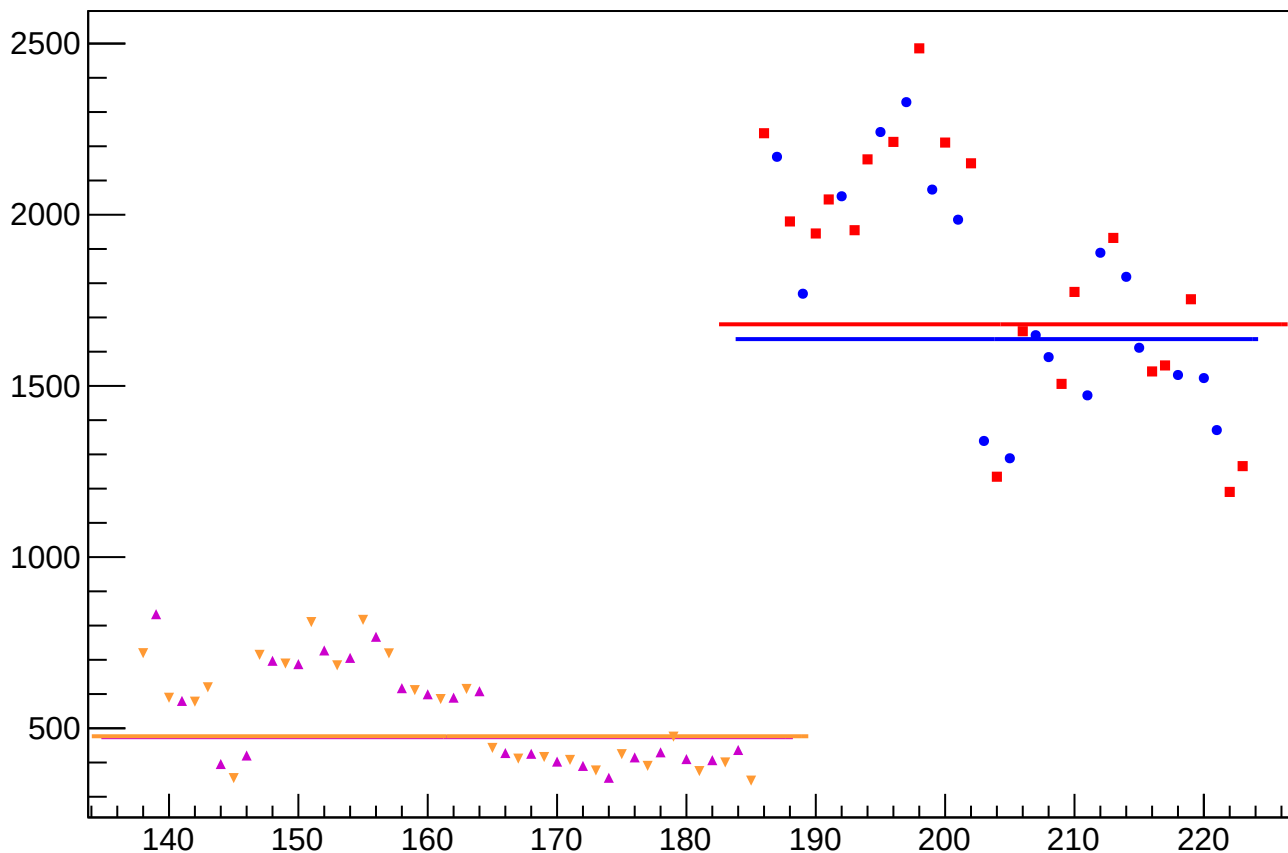
Right: 7.279 $\pm$ 327.085 χ^2 /NDF: 89.1/37

In: 188.541 $\pm$ 113.765 χ^2 /NDF:73.9/40

Out: 333.038 $\pm$ 111.987 χ^2 /NDF:108.9/44

All: 261.927 $\pm$ 79.808 χ^2 /NDF: 183.6/85

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1636.735+/-0.324 χ^2/NDF : 814182.0/17

Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24

Right Out: 1679.982+/-0.331 χ^2/NDF : 1235898.4/19

Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47

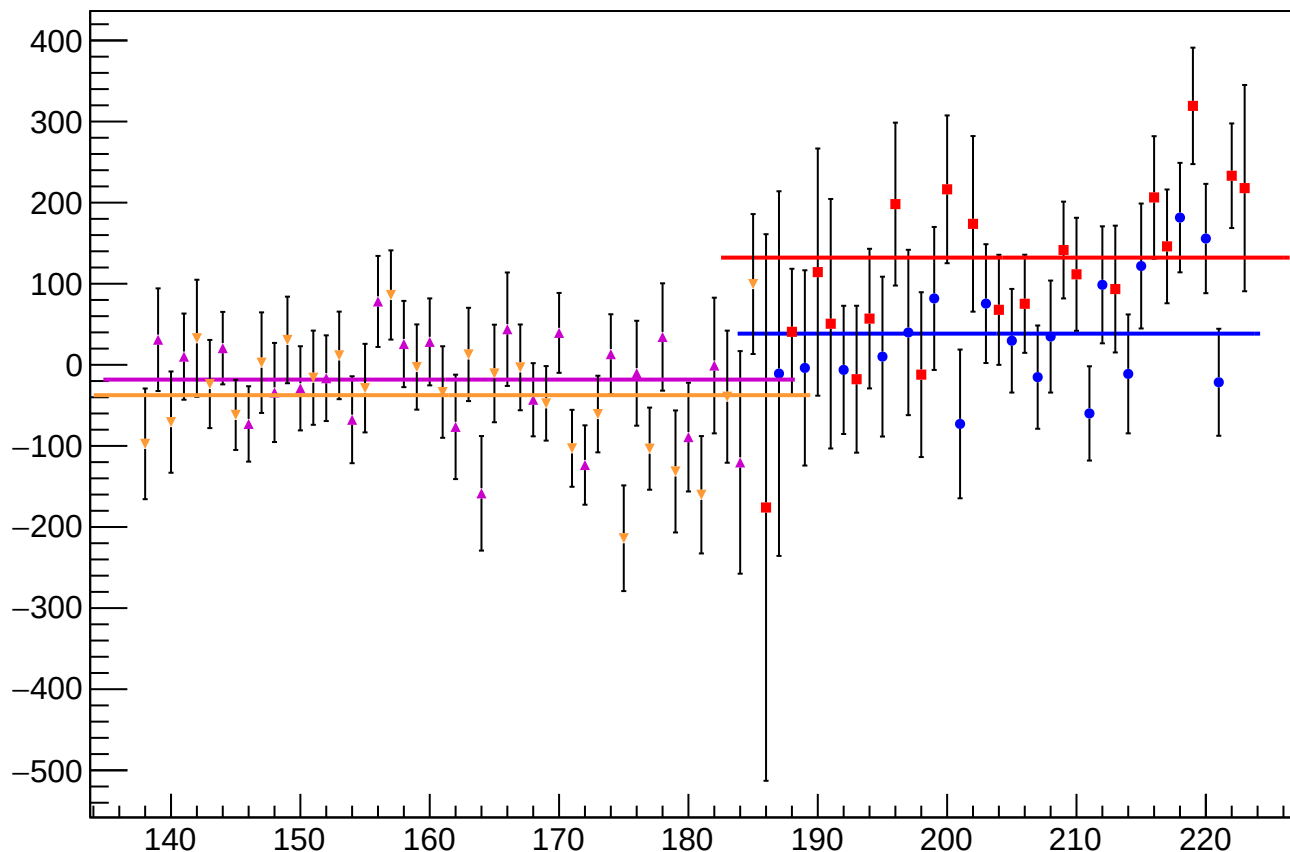
Right: 1657.908+/-0.231 χ^2/NDF : 2058817.3/37

In: 545.779+/-0.080 χ^2/NDF : 15005020.6/40

Out: 545.749+/-0.079 χ^2/NDF : 16200214.3/44

All: 545.764+/-0.056 χ^2/NDF : 31205234.9/83

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 38.462 ± 17.975 $\chi^2/\text{NDF}: 16.8/17$

Left Out: -37.413 ± 11.390 $\chi^2/\text{NDF}: 30.5/24$

Right Out: 132.205 ± 18.463 $\chi^2/\text{NDF}: 22.3/19$

Left In: -18.210 ± 11.788 $\chi^2/\text{NDF}: 23.0/22$

Left: -28.141 ± 8.191 $\chi^2/\text{NDF}: 54.8/47$

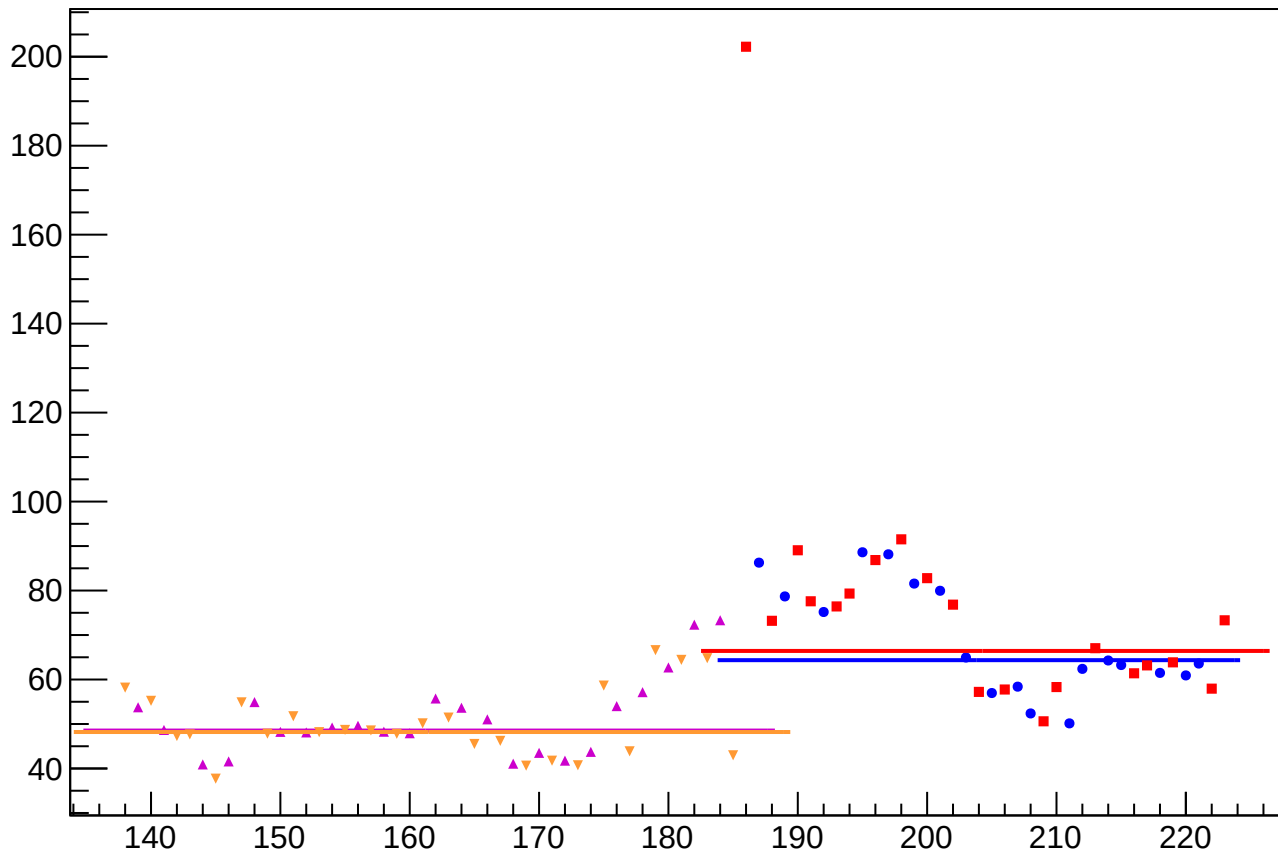
Right: 84.078 ± 12.879 $\chi^2/\text{NDF}: 52.4/37$

In: -1.167 ± 9.857 $\chi^2/\text{NDF}: 46.8/40$

Out: 9.342 ± 9.694 $\chi^2/\text{NDF}: 113.9/44$

All: 4.176 ± 6.912 $\chi^2/\text{NDF}: 161.3/85$

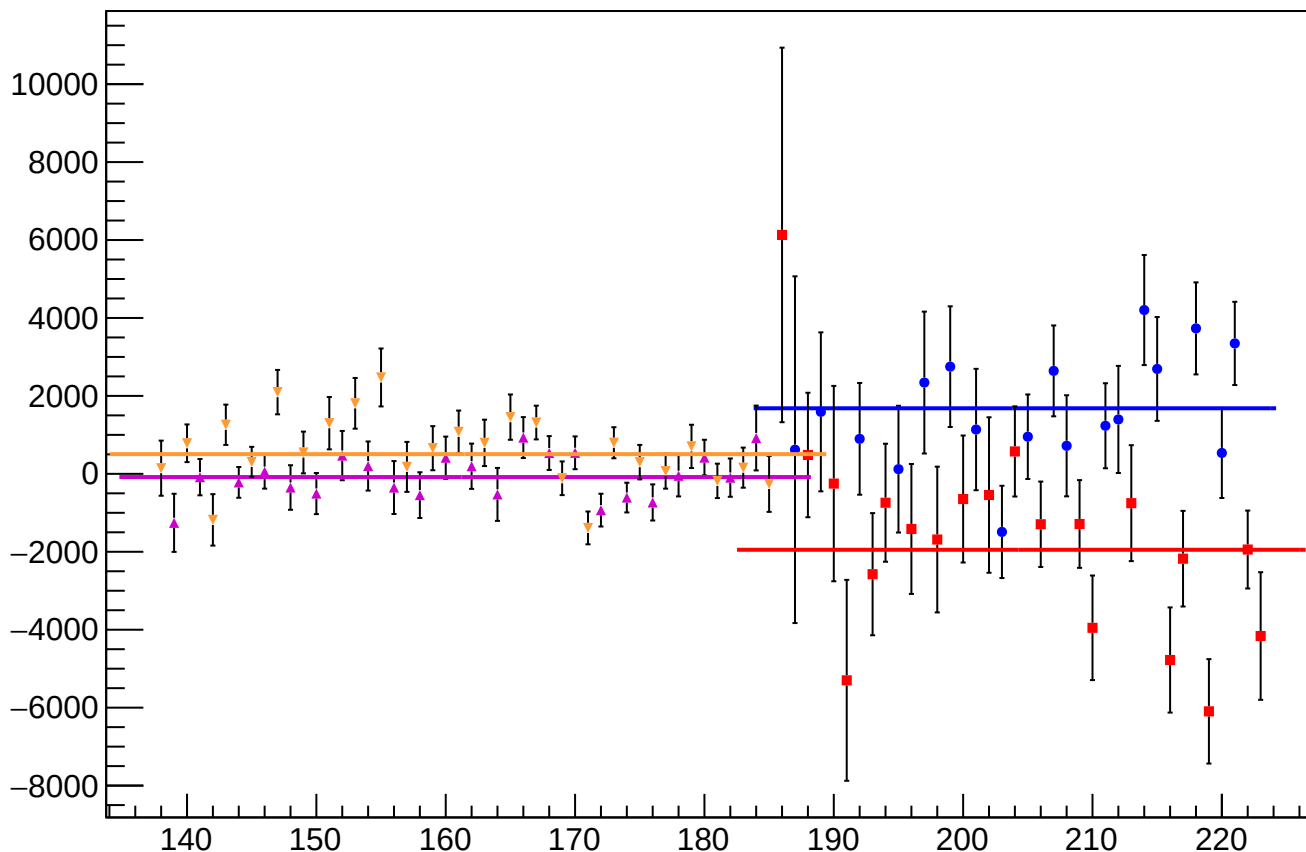
reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.350 ± 0.013 $\chi^2/\text{NDF}: 684031.2/17$
 Left Out: 48.200 ± 0.008 $\chi^2/\text{NDF}: 750196.2/24$
 Right Out: 66.426 ± 0.013 $\chi^2/\text{NDF}: 1053224.7/19$
 Left In: 48.527 ± 0.008 $\chi^2/\text{NDF}: 675340.8/22$

Left: 48.358 ± 0.006 $\chi^2/\text{NDF}: 1426333.4/47$
 Right: 65.360 ± 0.009 $\chi^2/\text{NDF}: 1750234.9/37$
 In: 53.285 ± 0.007 $\chi^2/\text{NDF}: 2443094.5/40$
 Out: 53.224 ± 0.007 $\chi^2/\text{NDF}: 3215130.3/44$
 All: 53.254 ± 0.005 $\chi^2/\text{NDF}: 5658264.4/85$

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1682.147 $\pm$ 316.909 χ^2 /NDF: 21.3/17

Left Out: 506.205 $\pm$ 103.468 χ^2 /NDF:65.7/24

Right Out: -1948.703 $\pm$ 326.461 χ^2 /NDF: 33.5/19

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

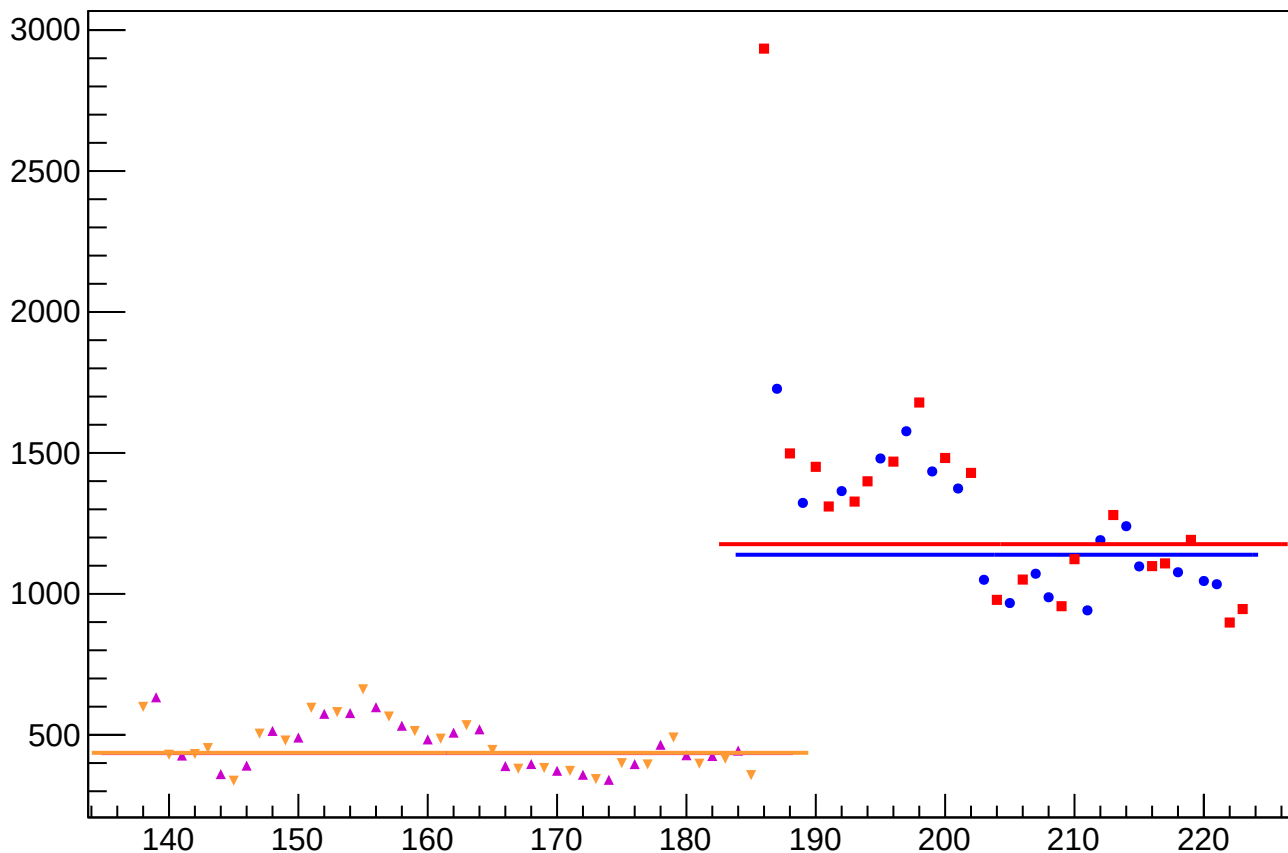
Right: -79.380 $\pm$ 227.390 χ^2 /NDF: 118.5/37

In: 94.936 $\pm$ 100.470 χ^2 /NDF:74.5/40

Out: 282.121 $\pm$ 98.632 χ^2 /NDF:150.6/44

All: 190.256 $\pm$ 70.385 χ^2 /NDF: 226.9/85

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1138.933+/-0.224 χ^2/NDF : 636300.0/17

Left Out: 436.301+/-0.073 χ^2/NDF :1179348.4/24

Right Out: 1176.444+/-0.231 χ^2/NDF : 1129874.8/19

Left In: 435.275+/-0.075 χ^2/NDF :1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

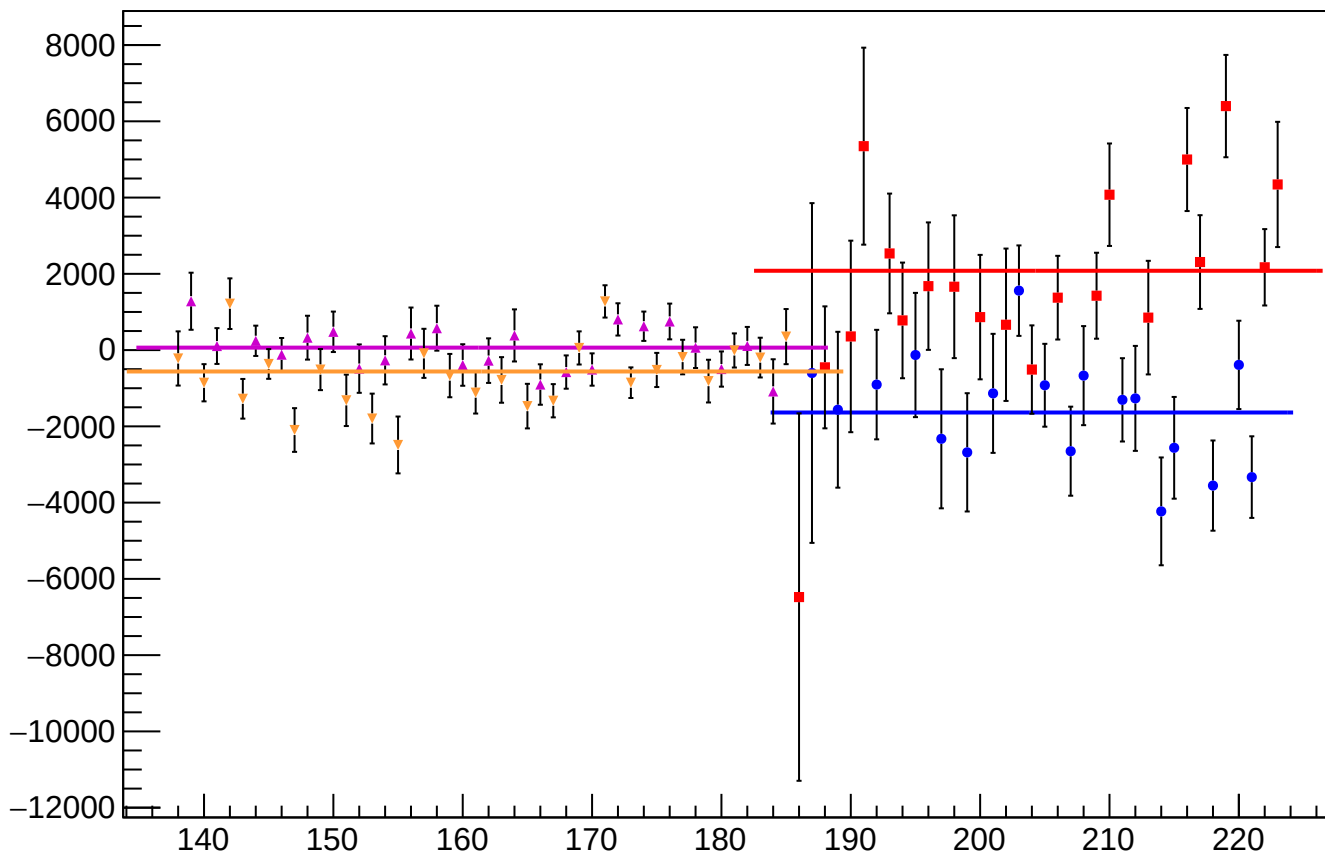
Right: 1157.132+/-0.161 χ^2/NDF : 1779769.2/37

In: 506.000+/-0.071 χ^2/NDF :10533158.1/40

Out: 503.862+/-0.070 χ^2/NDF :11650963.4/44

All: 504.911+/-0.050 χ^2/NDF : 22184582.6/83

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1636.591 ± 317.451 χ^2/NDF : 21.2/17

Left Out: -560.684 ± 104.207 χ^2/NDF : 61.8/24

Right Out: 2080.475 ± 327.028 χ^2/NDF : 35.3/19

Left In: 64.594 ± 106.708 χ^2/NDF : 25.2/22

Left: -255.457 ± 74.554 χ^2/NDF : 104.5/47

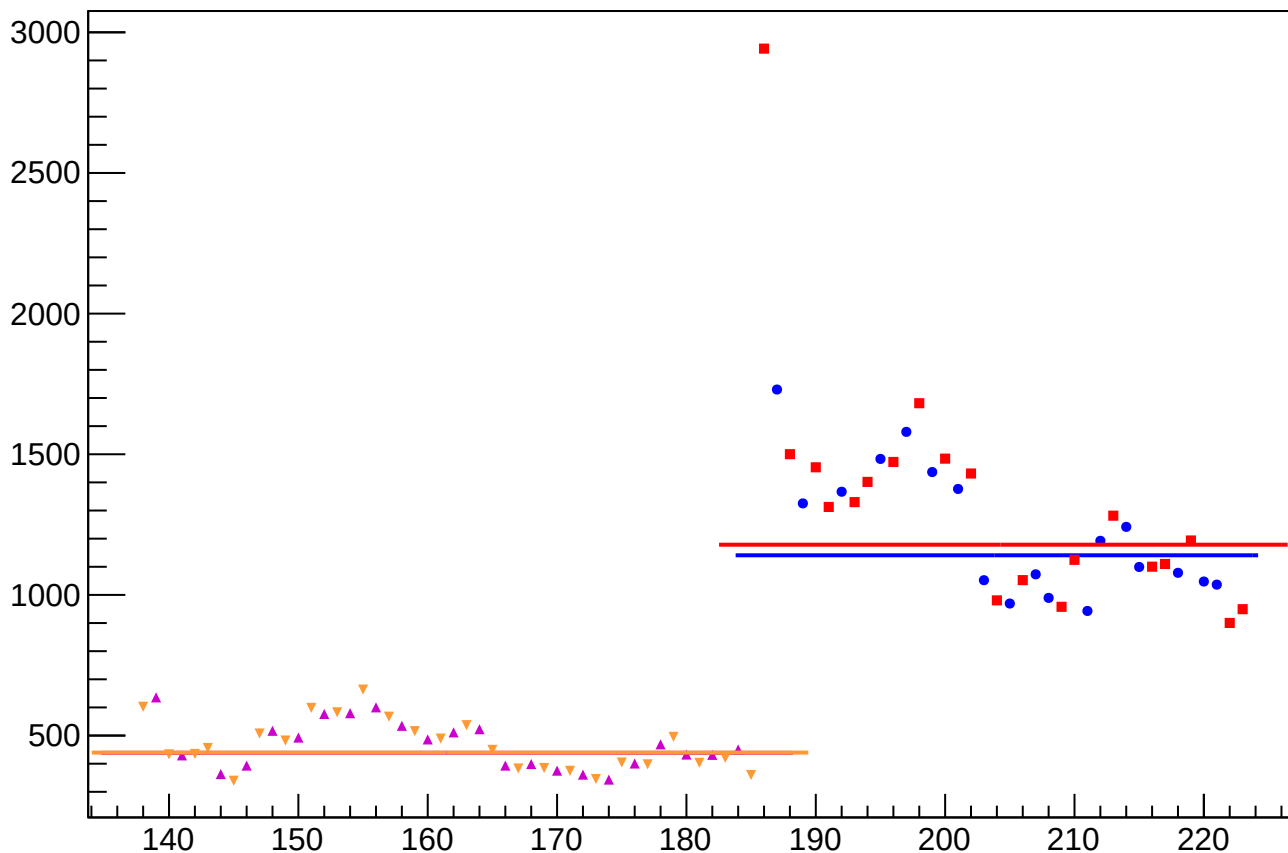
Right: 166.724 ± 227.782 χ^2/NDF : 123.0/37

In: -108.107 ± 101.146 χ^2/NDF : 72.1/40

Out: -317.227 ± 99.288 χ^2/NDF : 156.3/44

All: -214.606 ± 70.855 χ^2/NDF : 230.6/85

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1140.888 $\pm$ 0.224 χ^2 /NDF: 636430.4/17

Left Out: 439.527 $\pm$ 0.074 χ^2 /NDF: 1163352.8/24

Right Out: 1178.503 $\pm$ 0.231 χ^2 /NDF: 1129249.7/19

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

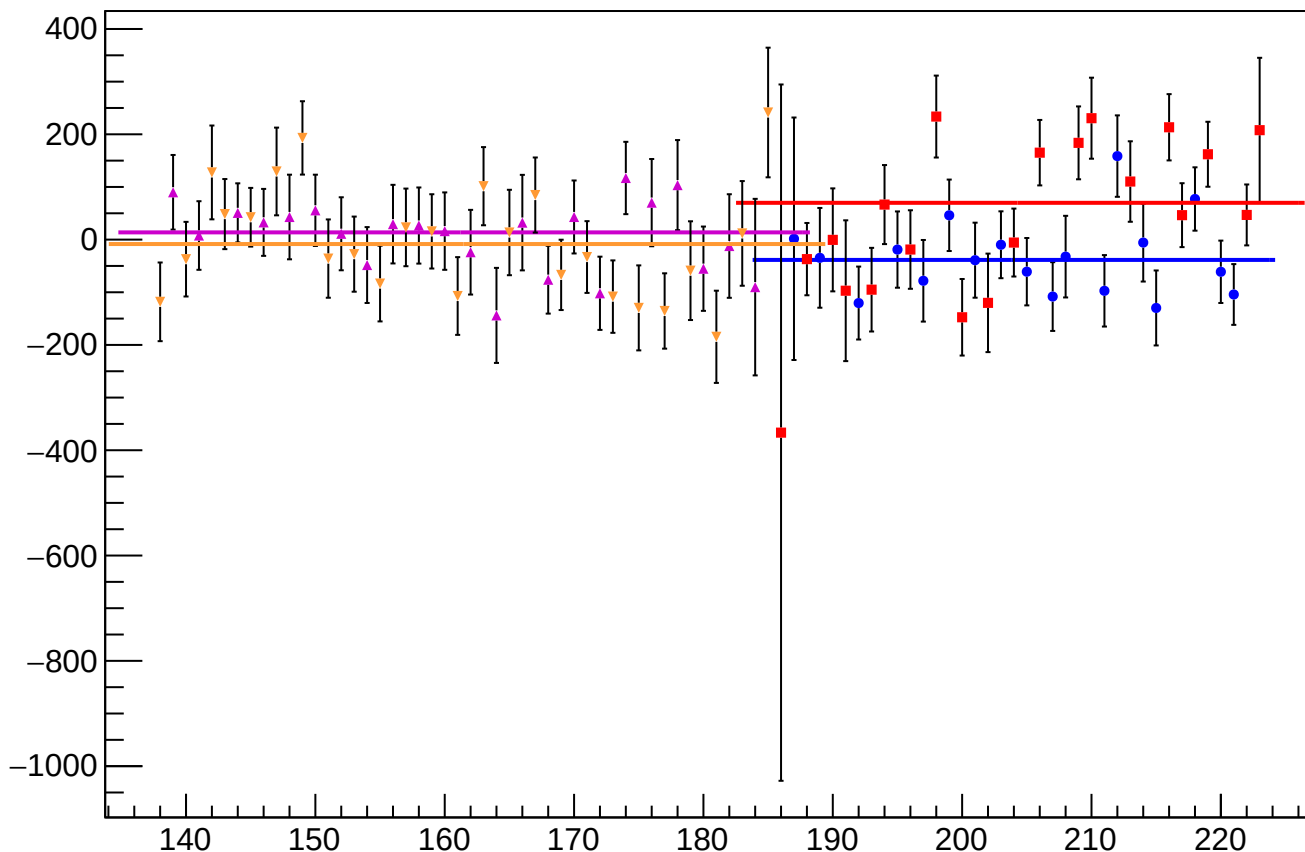
Right: 1159.137 $\pm$ 0.161 χ^2 /NDF: 1779303.3/37

In: 509.848 $\pm$ 0.072 χ^2 /NDF: 10445382.4/40

Out: 507.644 $\pm$ 0.070 χ^2 /NDF: 11563524.1/44

All: 508.726 $\pm$ 0.050 χ^2 /NDF: 22009390.0/83

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -38.561 ± 16.598 χ^2/NDF : 19.0/17

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 69.877 ± 16.793 χ^2/NDF : 48.0/19

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

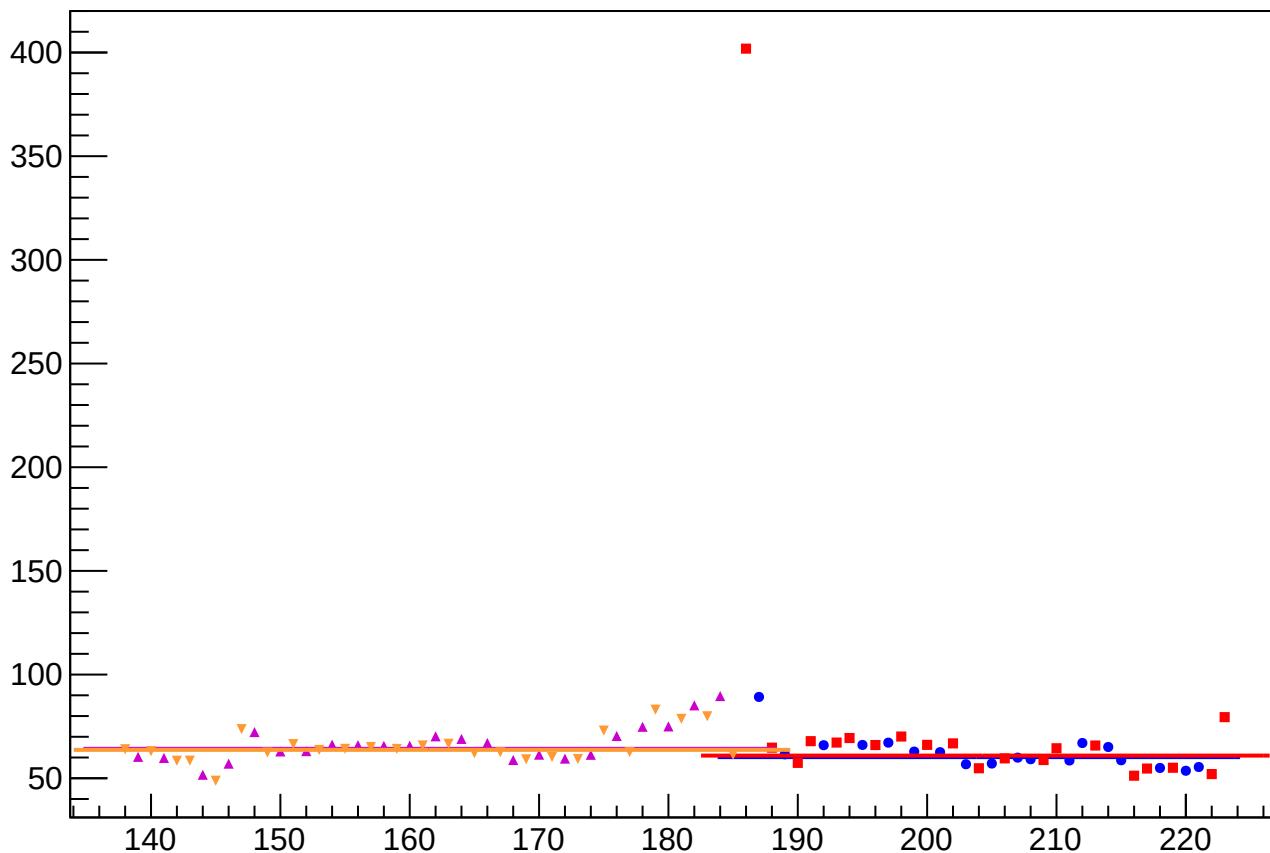
Right: 15.025 ± 11.805 χ^2/NDF : 88.1/37

In: -10.595 ± 11.320 χ^2/NDF : 40.6/40

Out: 26.160 ± 11.160 χ^2/NDF : 101.7/44

All: 8.044 ± 7.947 χ^2/NDF : 147.7/85

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 60.197 $\pm$ 0.012 χ^2 /NDF: 171185.3/17

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 60.927 $\pm$ 0.012 χ^2 /NDF: 842939.4/19

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

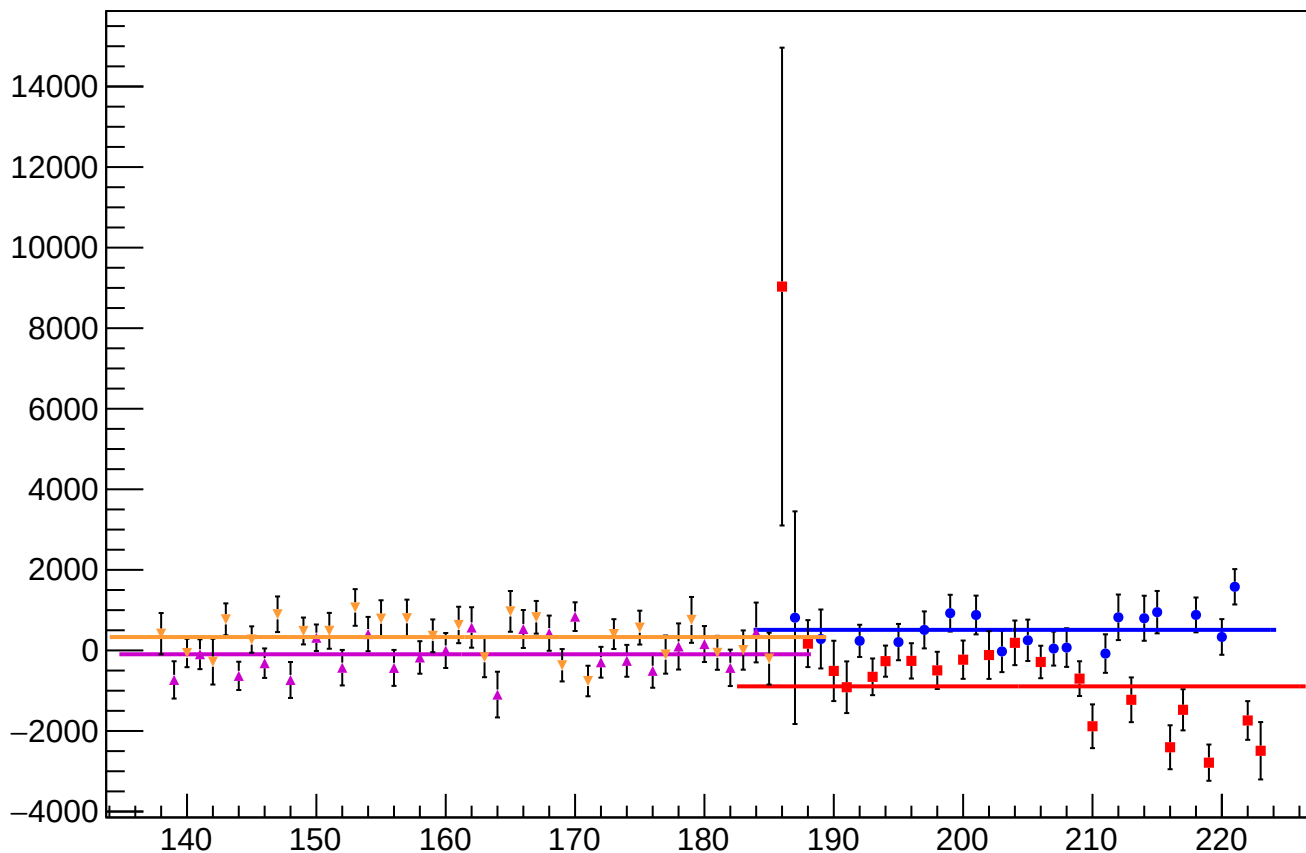
Right: 60.558 $\pm$ 0.008 χ^2 /NDF: 1016036.0/37

In: 62.332 $\pm$ 0.008 χ^2 /NDF: 662731.1/40

Out: 62.473 $\pm$ 0.008 χ^2 /NDF: 1321737.1/44

All: 62.404 $\pm$ 0.006 χ^2 /NDF: 1984625.1/85

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 510.485 ± 115.830 $\chi^2/\text{NDF}: 15.4/17$

Left Out: 331.739 ± 86.071 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -892.115 ± 114.927 $\chi^2/\text{NDF}: 60.5/19$

Left In: -95.910 ± 88.656 $\chi^2/\text{NDF}: 28.7/22$

Left: 124.240 ± 61.755 $\chi^2/\text{NDF}: 70.5/47$

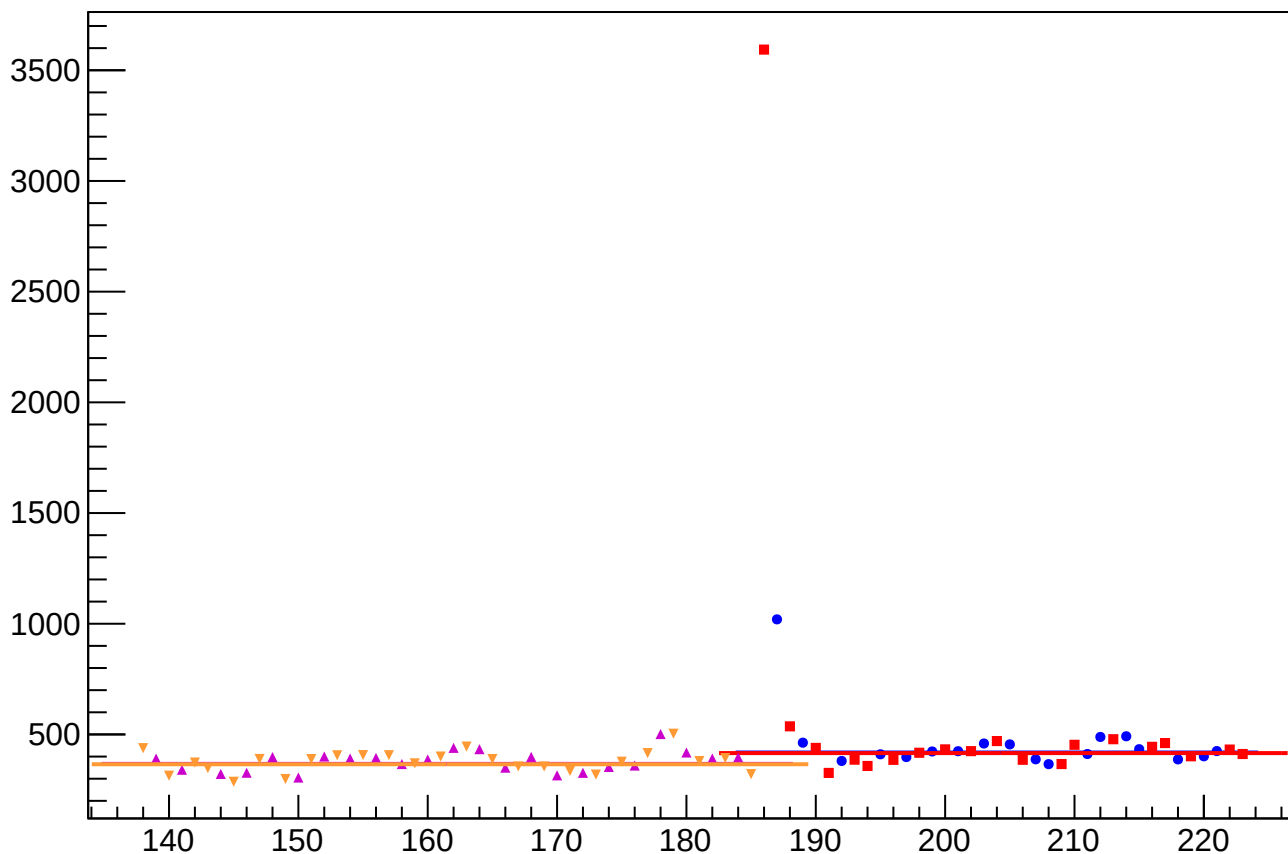
Right: -196.300 ± 81.583 $\chi^2/\text{NDF}: 149.9/37$

In: 128.103 ± 70.401 $\chi^2/\text{NDF}: 61.4/40$

Out: -108.034 ± 68.893 $\chi^2/\text{NDF}: 163.1/44$

All: 7.478 ± 49.239 $\chi^2/\text{NDF}: 230.2/85$

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 418.272 $\pm$ 0.082 χ^2 /NDF: 272994.4/17

Left Out: 365.355 $\pm$ 0.061 χ^2 /NDF: 618453.7/24

Right Out: 415.725 $\pm$ 0.081 χ^2 /NDF: 884469.7/19

Left In: 366.925 $\pm$ 0.063 χ^2 /NDF: 478082.1/22

Left: 366.117 $\pm$ 0.044 χ^2 /NDF: 1096858.5/47

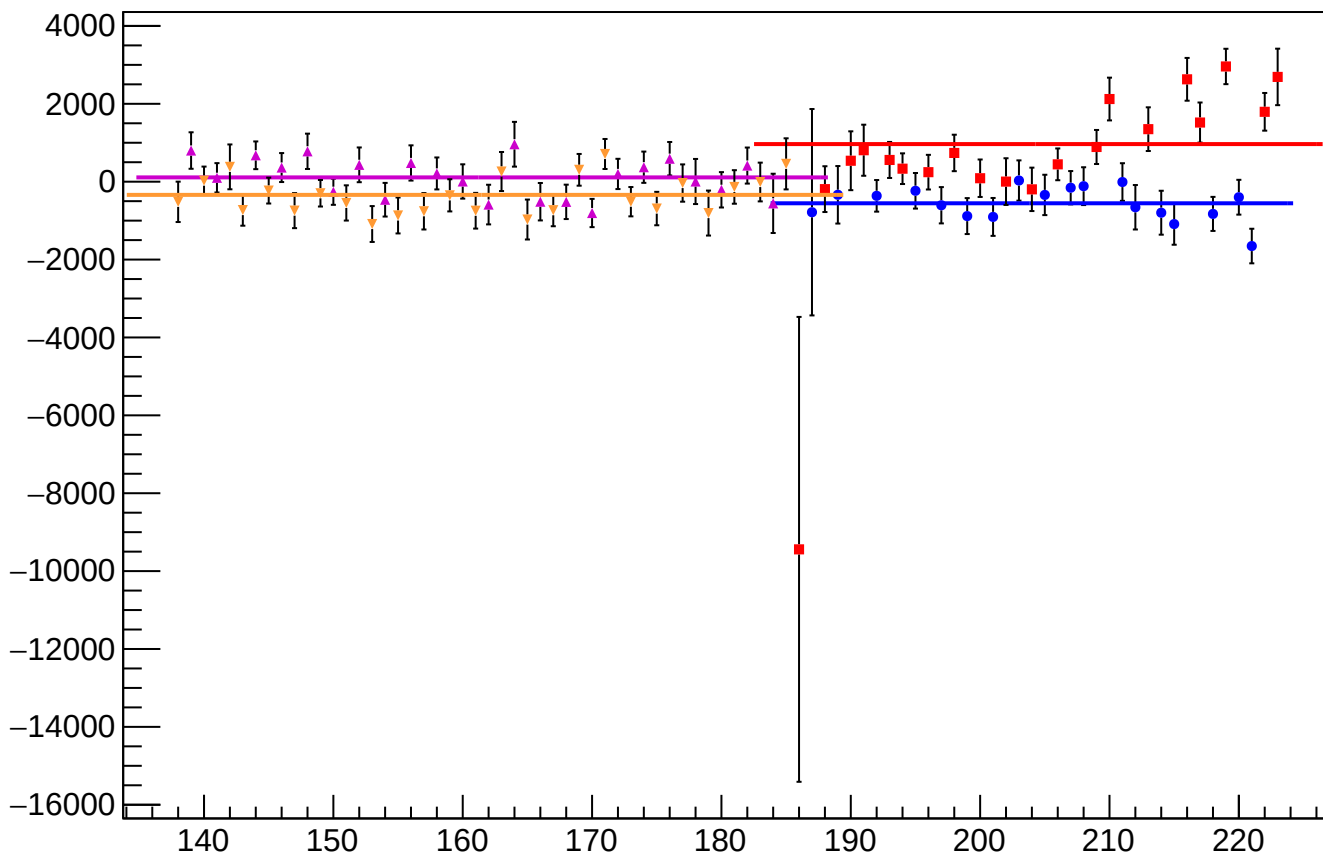
Right: 416.989 $\pm$ 0.058 χ^2 /NDF: 1157951.6/37

In: 385.893 $\pm$ 0.050 χ^2 /NDF: 998917.1/40

Out: 383.455 $\pm$ 0.049 χ^2 /NDF: 1749047.2/44

All: 384.648 $\pm$ 0.035 χ^2 /NDF: 2749190.2/85

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -554.428+/-117.137 χ^2 /NDF: 14.1/17

Left Out: -338.528+/-87.450 χ^2 /NDF:28.2/24

Right Out: 965.784+/-116.328 χ^2 /NDF: 68.5/19

Left In: 110.341+/-90.084 χ^2 /NDF:29.2/22

Left: -120.751+/-62.747 χ^2 /NDF: 70.2/47

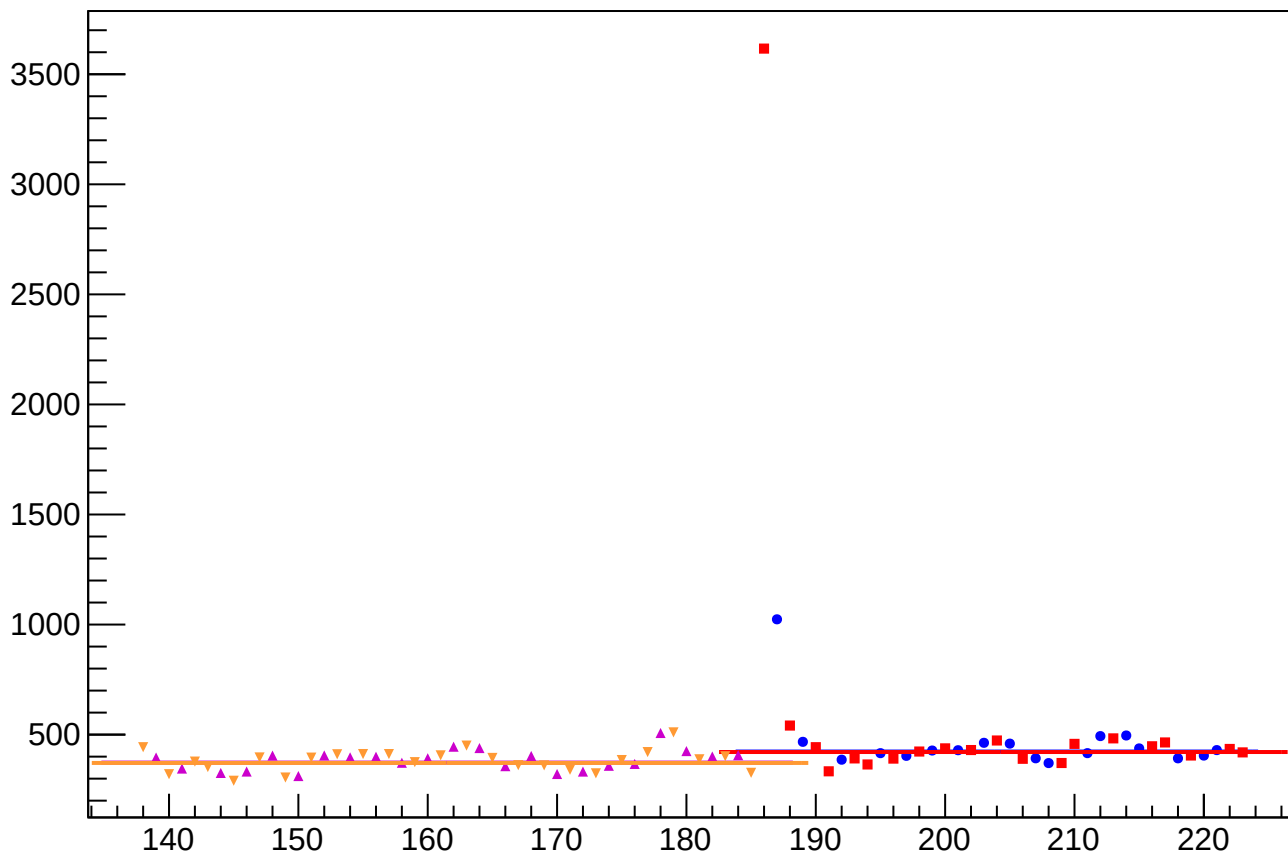
Right: 210.946+/-82.541 χ^2 /NDF: 167.4/37

In: -136.712+/-71.409 χ^2 /NDF:63.6/40

Out: 132.433+/-69.901 χ^2 /NDF:177.0/44

All: 0.732+/-49.952 χ^2 /NDF: 247.9/85

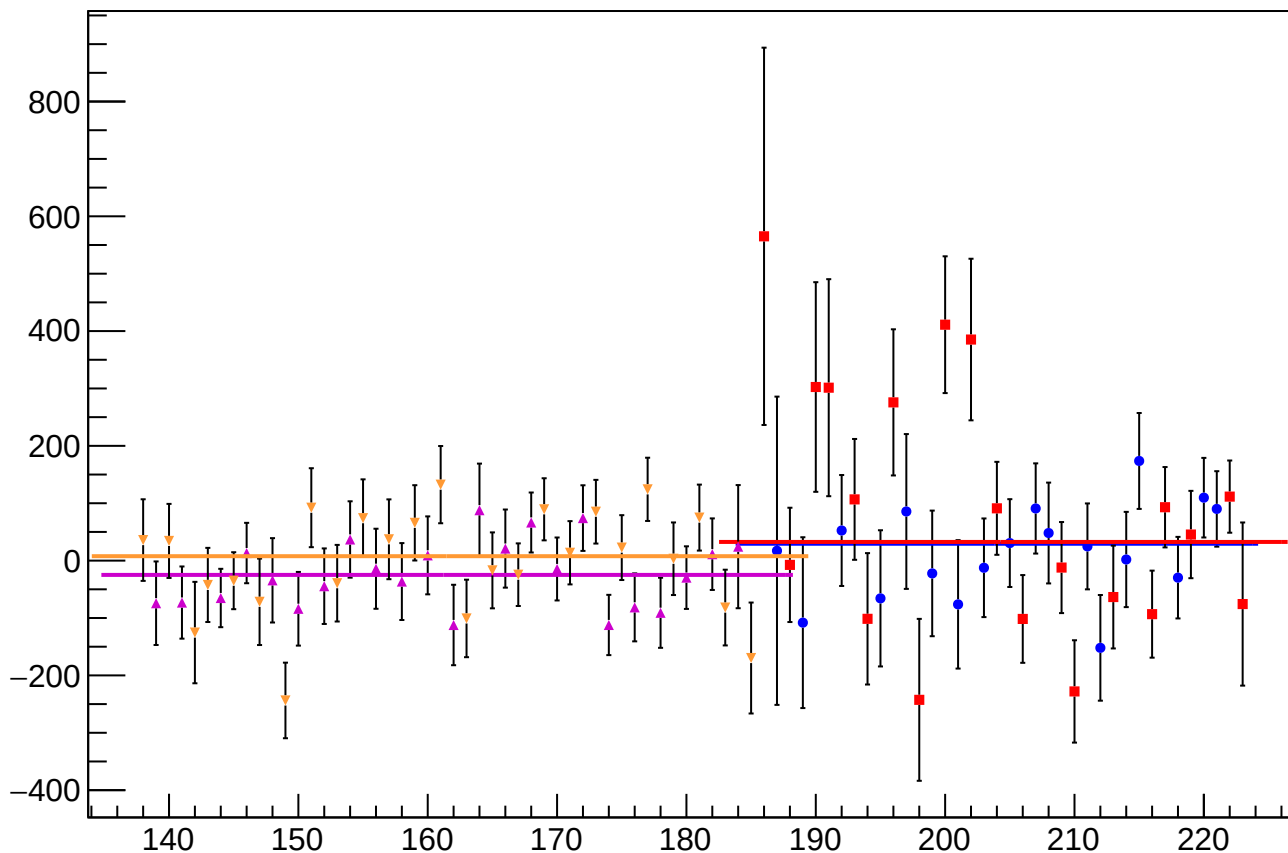
asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 423.131 $\pm$ 0.083 χ^2 /NDF: 265377.0/17
 Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24
 Right Out: 420.971 $\pm$ 0.082 χ^2 /NDF: 866842.9/19
 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: 422.043 $\pm$ 0.058 χ^2 /NDF: 1132562.4/37
 In: 391.591 $\pm$ 0.050 χ^2 /NDF: 963470.1/40
 Out: 389.271 $\pm$ 0.049 χ^2 /NDF: 1703367.3/44
 All: 390.406 $\pm$ 0.035 χ^2 /NDF: 2667916.0/85

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 29.435 ± 20.965 $\chi^2/\text{NDF}: 13.6/17$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 32.567 ± 21.552 $\chi^2/\text{NDF}: 52.0/19$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

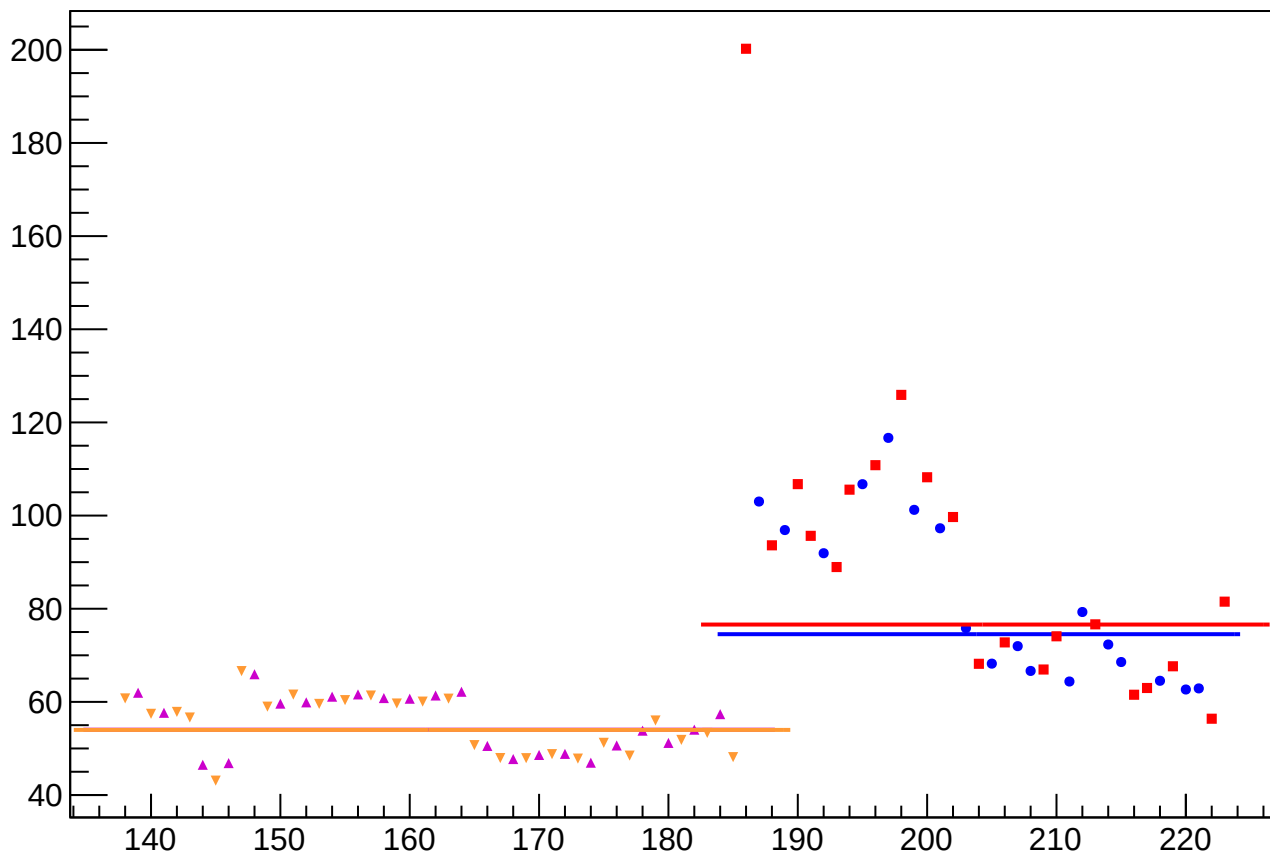
Right: 30.958 ± 15.028 $\chi^2/\text{NDF}: 65.6/37$

In: -9.753 ± 11.066 $\chi^2/\text{NDF}: 38.2/40$

Out: 14.094 ± 10.913 $\chi^2/\text{NDF}: 98.4/44$

All: 2.336 ± 7.770 $\chi^2/\text{NDF}: 138.9/85$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 74.535 $\pm$ 0.015 χ^2 /NDF: 923624.9/17

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 76.604 $\pm$ 0.015 χ^2 /NDF: 1603983.3/19

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

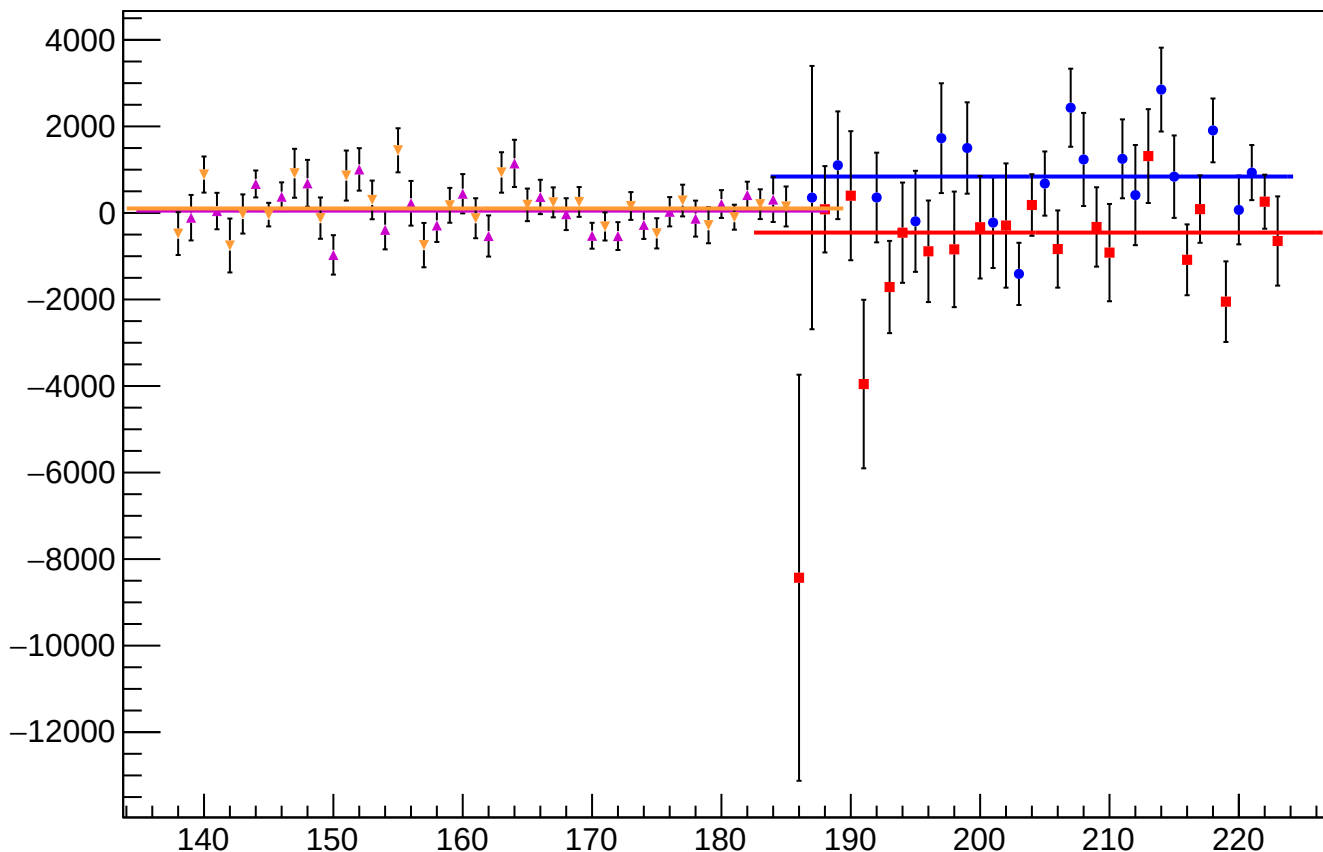
Right: 75.541 $\pm$ 0.011 χ^2 /NDF: 2537079.5/37

In: 59.741 $\pm$ 0.008 χ^2 /NDF: 2747935.0/40

Out: 59.784 $\pm$ 0.008 χ^2 /NDF: 3701251.2/44

All: 59.763 $\pm$ 0.005 χ^2 /NDF: 6449201.2/85

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 841.281 $\pm$ 219.867 χ^2 /NDF: 23.8/17

Left Out: 103.768 $\pm$ 79.344 χ^2 /NDF:31.0/24

Right Out: -453.717 $\pm$ 225.109 χ^2 /NDF: 17.6/19

Left In: 53.493 $\pm$ 81.201 χ^2 /NDF:34.1/22

Left: 79.212 $\pm$ 56.750 χ^2 /NDF: 65.3/47

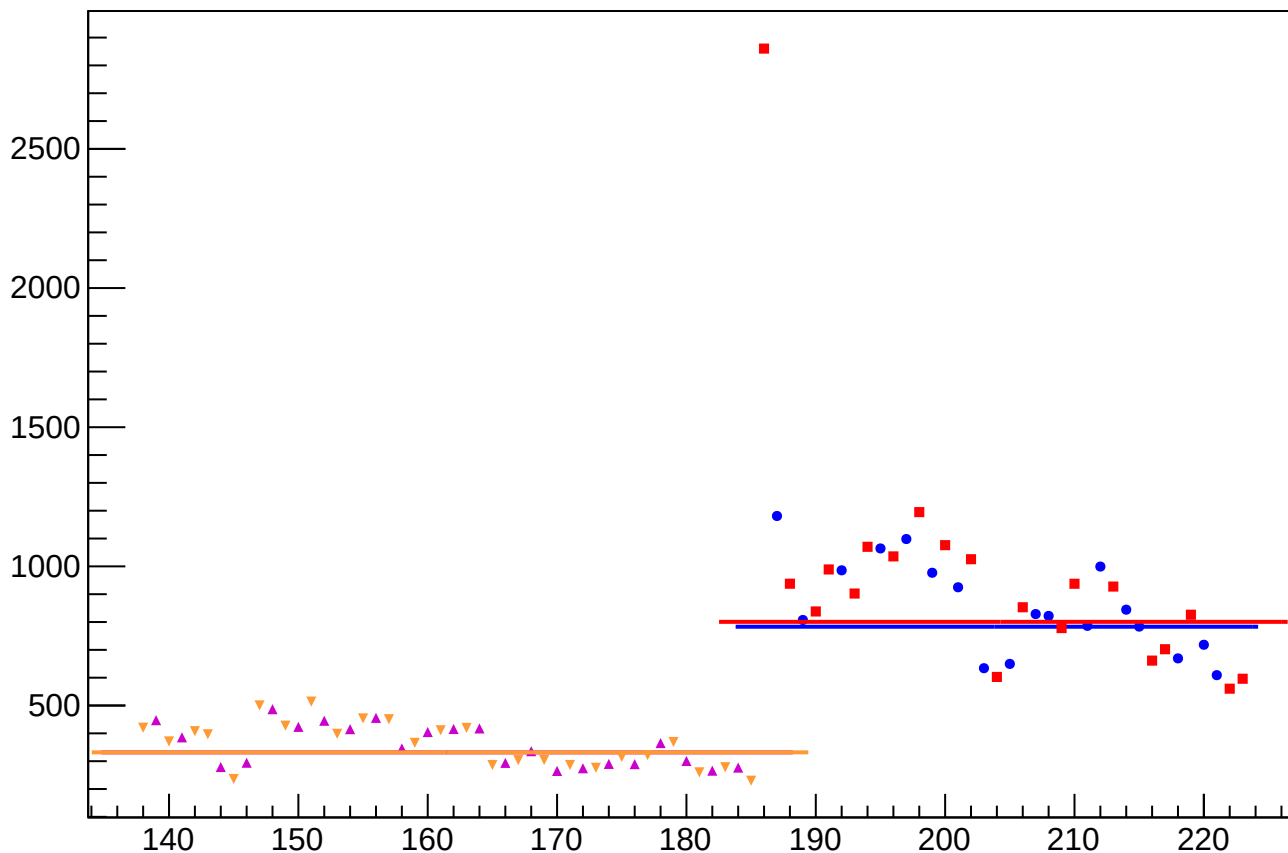
Right: 209.037 $\pm$ 157.290 χ^2 /NDF: 58.3/37

In: 148.048 $\pm$ 76.172 χ^2 /NDF:69.2/40

Out: 42.162 $\pm$ 74.832 χ^2 /NDF:54.0/44

All: 94.165 $\pm$ 53.382 χ^2 /NDF: 124.1/85

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 783.155+/-0.155 χ^2/NDF : 900967.7/17

Left Out: 331.770+/-0.056 χ^2/NDF :1711721.9/24

Right Out: 800.692+/-0.159 χ^2/NDF : 1666939.6/19

Left In: 331.666+/-0.057 χ^2/NDF :1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

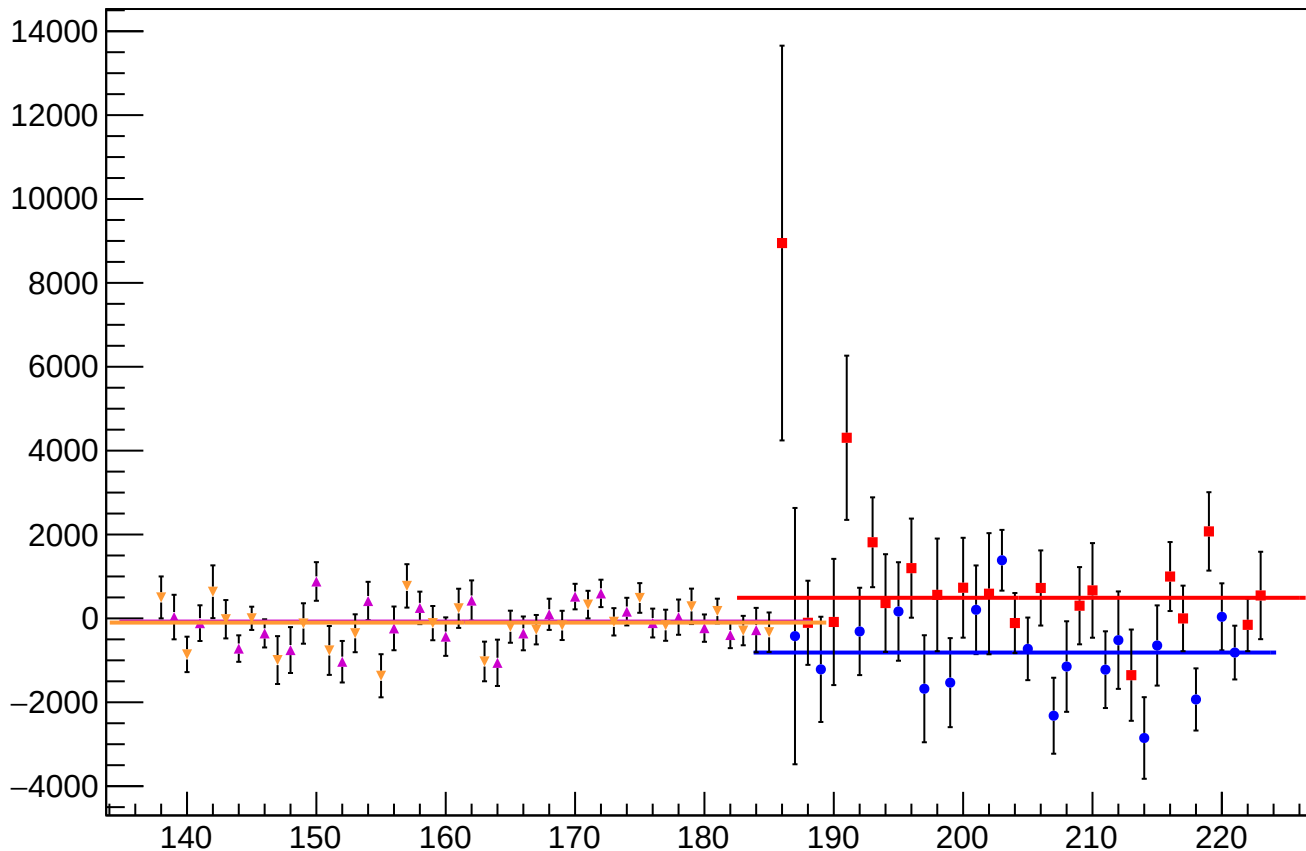
Right: 791.717+/-0.111 χ^2/NDF : 2574119.6/37

In: 385.856+/-0.054 χ^2/NDF :9625386.6/40

Out: 383.589+/-0.053 χ^2/NDF :11098130.2/44

All: 384.702+/-0.038 χ^2/NDF : 20724418.4/85

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -814.236+/-221.018 χ^2/NDF : 23.1/17

Left Out: -99.785+/-80.428 χ^2/NDF : 30.7/24

Right Out: 491.226+/-226.287 χ^2/NDF : 17.9/19

Left In: -75.579+/-82.319 χ^2/NDF : 32.1/22

Left: -87.963+/-57.528 χ^2/NDF : 62.8/47

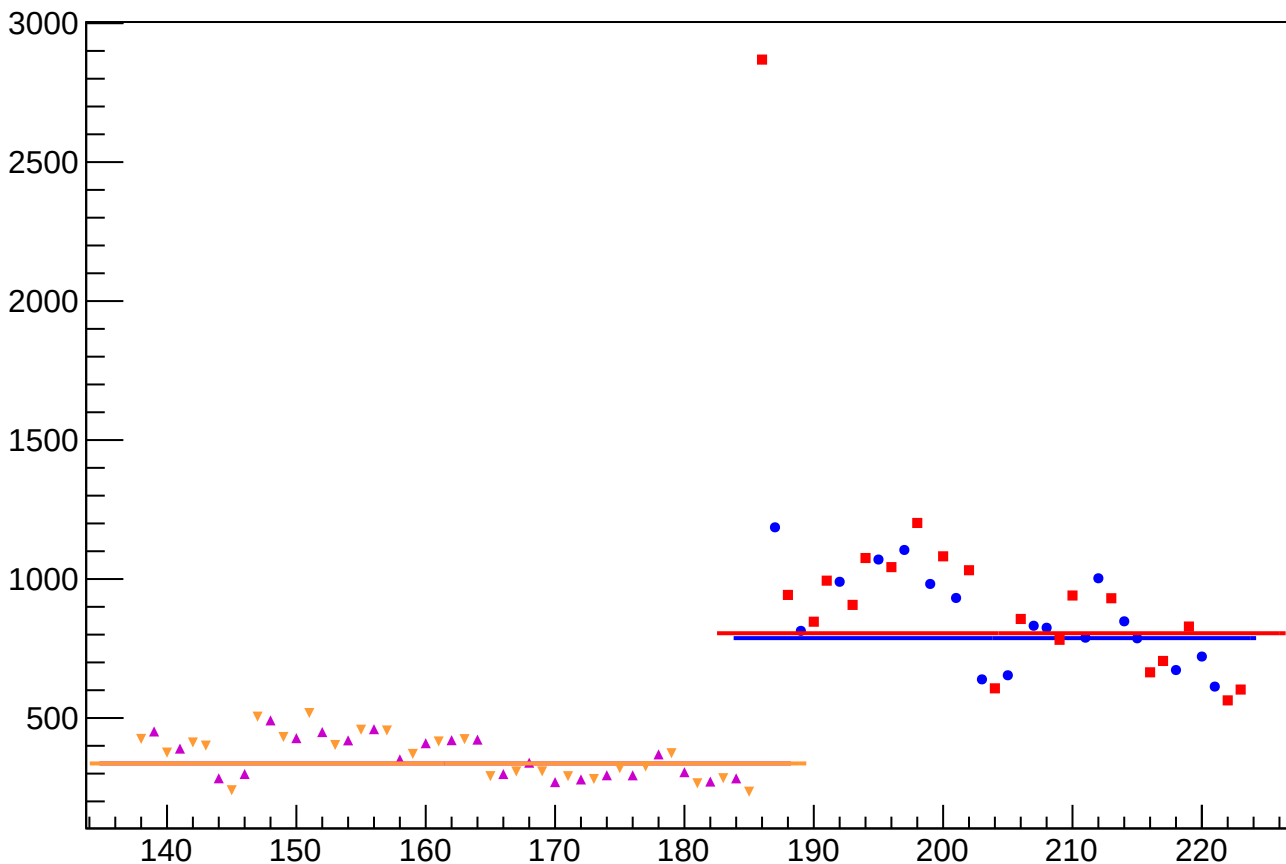
Right: -176.881+/-158.113 χ^2/NDF : 58.0/37

In: -165.564+/-77.142 χ^2/NDF : 65.0/40

Out: -33.498+/-75.784 χ^2/NDF : 54.6/44

All: -98.358+/-54.061 χ^2/NDF : 121.1/85

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 787.360 $\pm$ 0.156 χ^2 /NDF: 896558.3/17

Left Out: 336.557 $\pm$ 0.057 χ^2 /NDF: 1665919.4/24

Right Out: 804.993 $\pm$ 0.160 χ^2 /NDF: 1662205.4/19

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

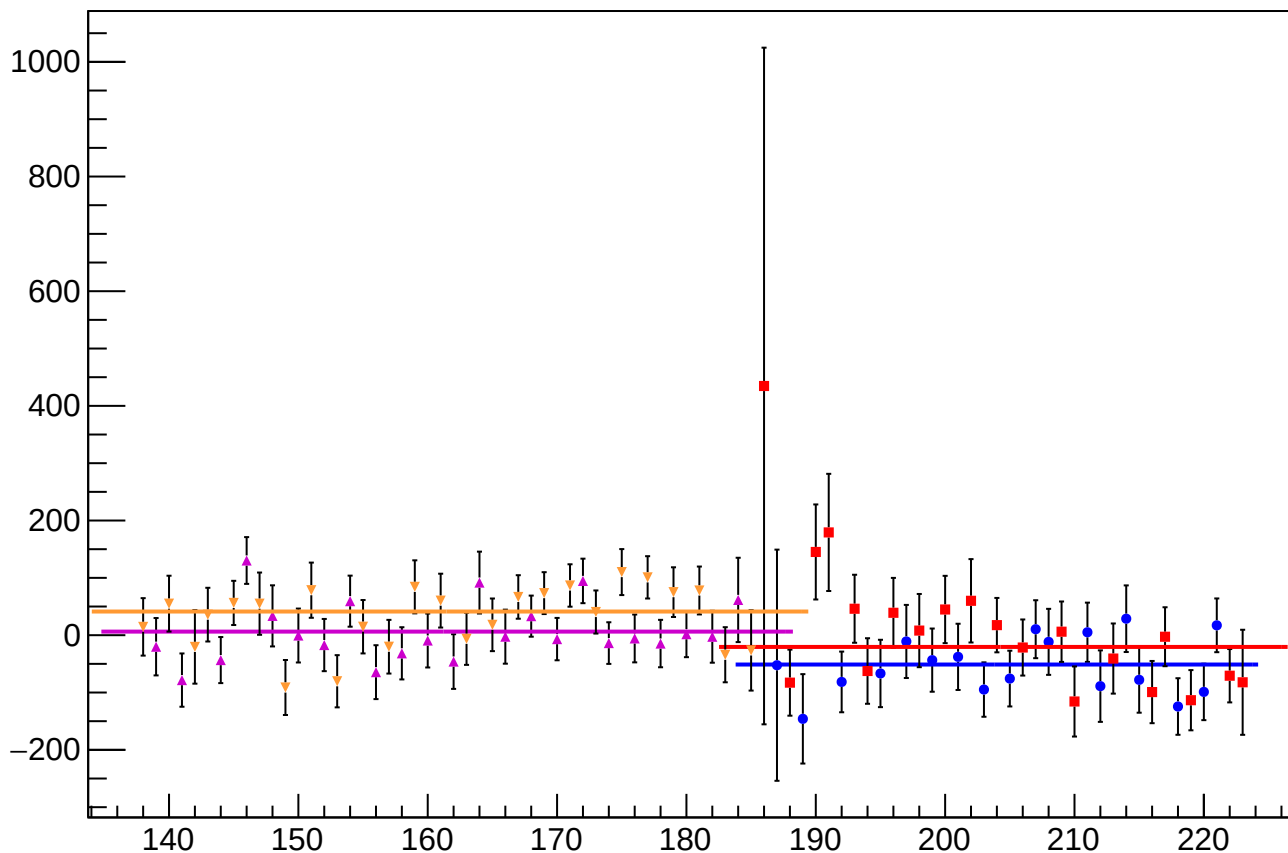
Right: 795.969 $\pm$ 0.112 χ^2 /NDF: 2564978.5/37

In: 391.371 $\pm$ 0.055 χ^2 /NDF: 9476317.3/40

Out: 389.096 $\pm$ 0.054 χ^2 /NDF: 10937450.6/44

All: 390.214 $\pm$ 0.038 χ^2 /NDF: 20414653.1/85

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -51.170 ± 13.151 χ^2/NDF : 14.3/17

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: -20.469 ± 13.424 χ^2/NDF : 25.4/19

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

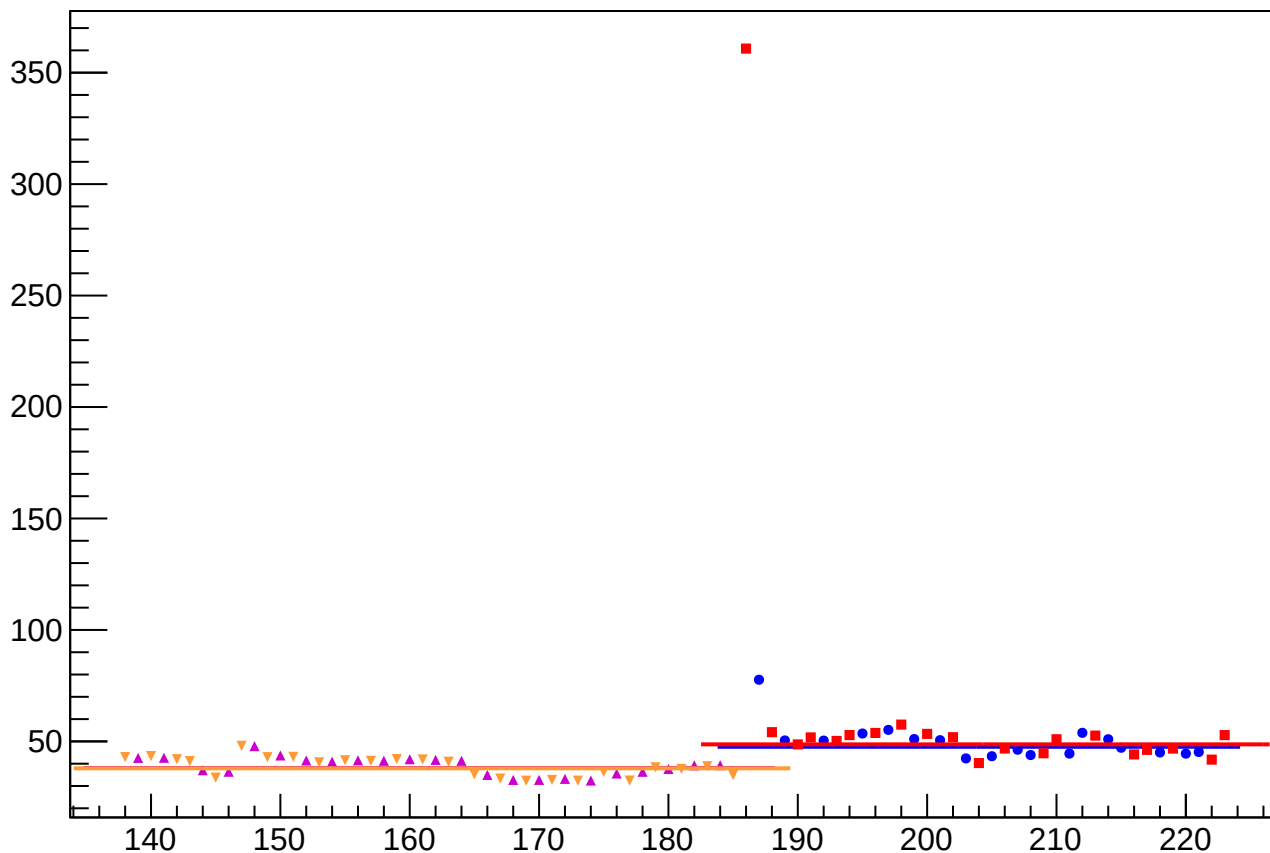
Right: -36.136 ± 9.394 χ^2/NDF : 42.4/37

In: -12.546 ± 7.524 χ^2/NDF : 57.4/40

Out: 22.460 ± 7.412 χ^2/NDF : 74.5/44

All: 5.221 ± 5.280 χ^2/NDF : 142.9/85

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 47.595 $\pm$ 0.009 χ^2 /NDF: 215685.2/17

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 48.671 $\pm$ 0.009 χ^2 /NDF: 816993.0/19

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

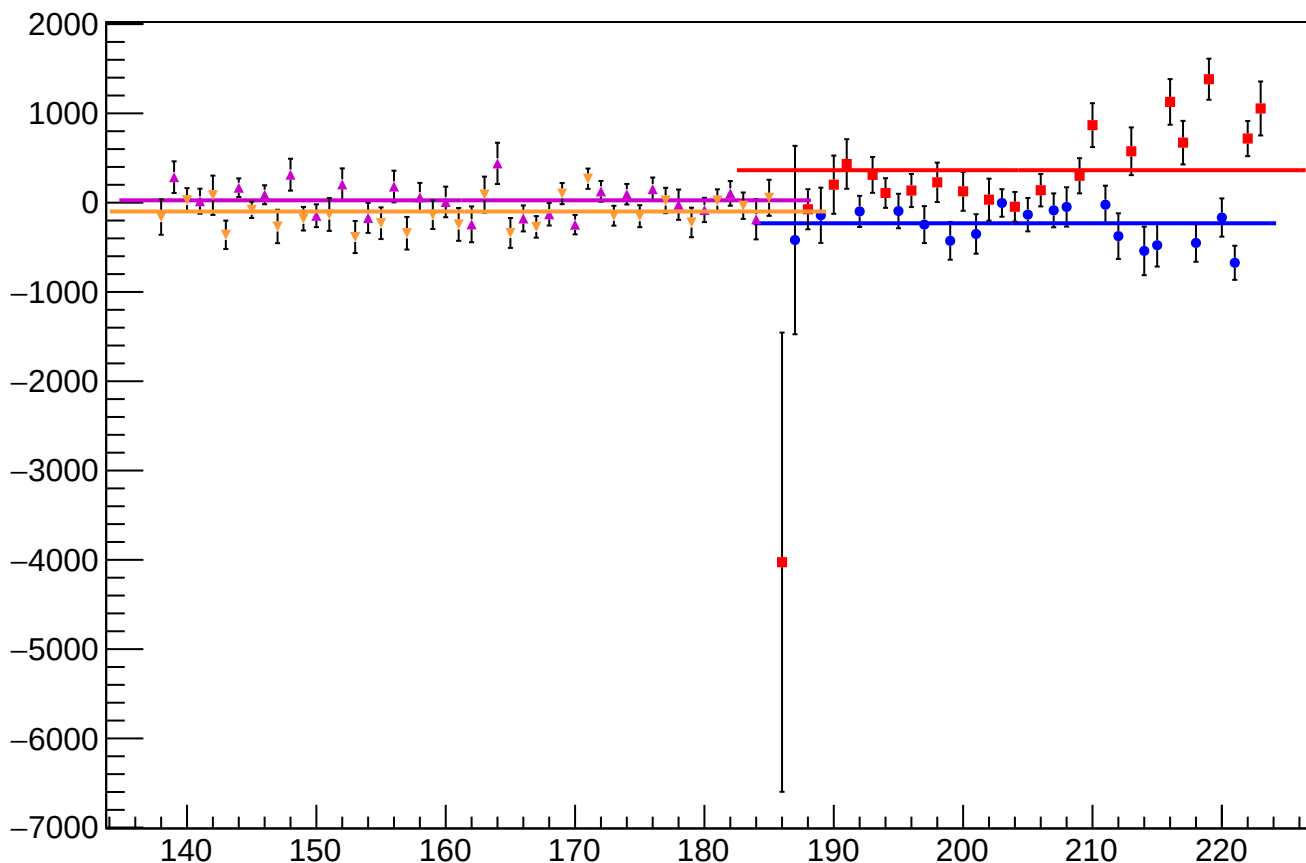
Right: 48.122 $\pm$ 0.007 χ^2 /NDF: 1039233.2/37

In: 41.200 $\pm$ 0.005 χ^2 /NDF: 1315252.3/40

Out: 41.201 $\pm$ 0.005 χ^2 /NDF: 2195029.6/44

All: 41.200 $\pm$ 0.004 χ^2 /NDF: 3510281.9/85

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -230.948 ± 50.234 $\chi^2/\text{NDF}: 16.3/17$

Left Out: -98.741 ± 29.095 $\chi^2/\text{NDF}: 32.7/24$

Right Out: 363.395 ± 49.810 $\chi^2/\text{NDF}: 65.7/19$

Left In: 26.223 ± 29.676 $\chi^2/\text{NDF}: 30.7/22$

Left: -37.493 ± 20.776 $\chi^2/\text{NDF}: 72.5/47$

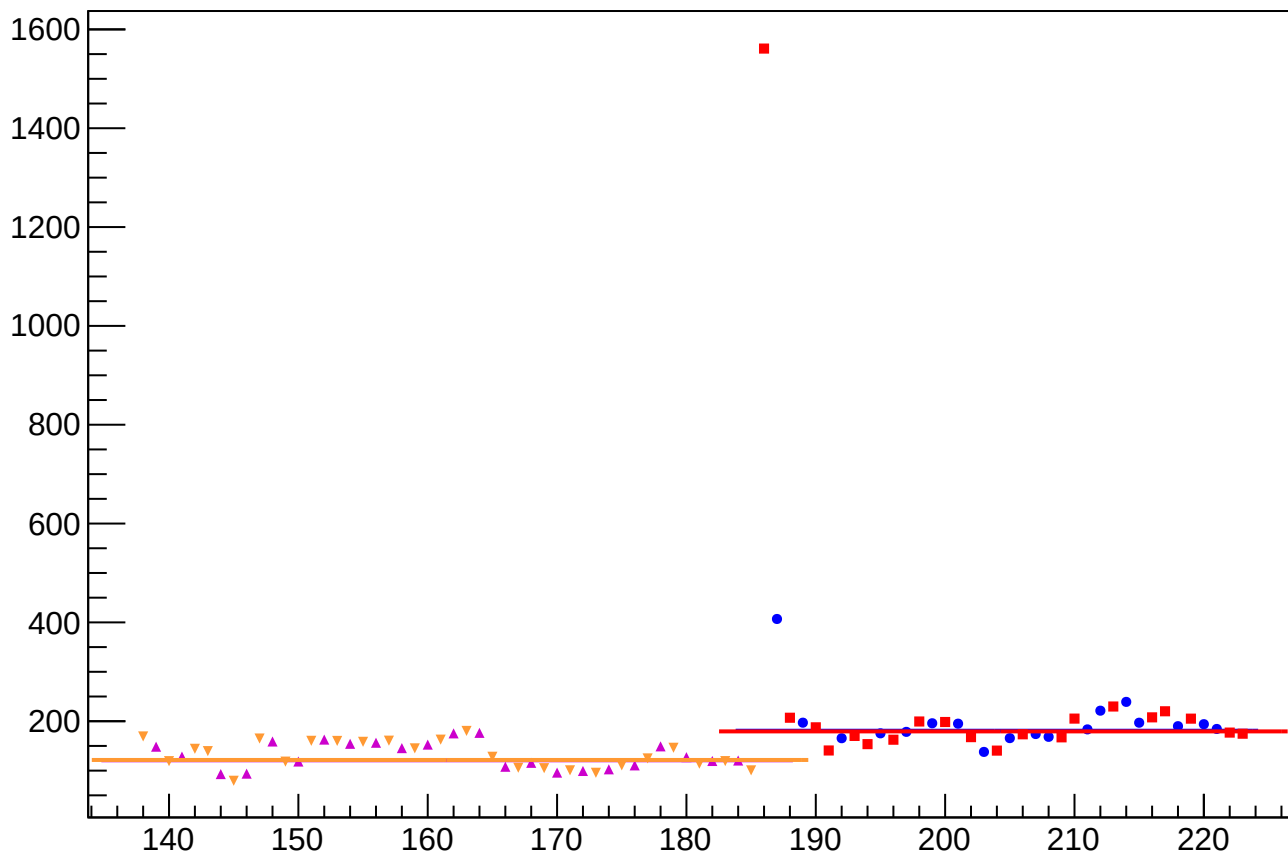
Right: 68.741 ± 35.370 $\chi^2/\text{NDF}: 152.6/37$

In: -40.308 ± 25.550 $\chi^2/\text{NDF}: 66.4/40$

Out: 18.827 ± 25.123 $\chi^2/\text{NDF}: 162.7/44$

All: -10.242 ± 17.914 $\chi^2/\text{NDF}: 231.8/85$

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 180.734+/-0.036 χ^2/NDF : 473097.3/17

Left Out: 121.592+/-0.021 χ^2/NDF :1711423.9/24

Right Out: 179.410+/-0.035 χ^2/NDF : 1072839.6/19

Left In: 120.927+/-0.021 χ^2/NDF :1382861.4/22

Left: 121.266+/-0.015 χ^2/NDF : 3094797.5/47

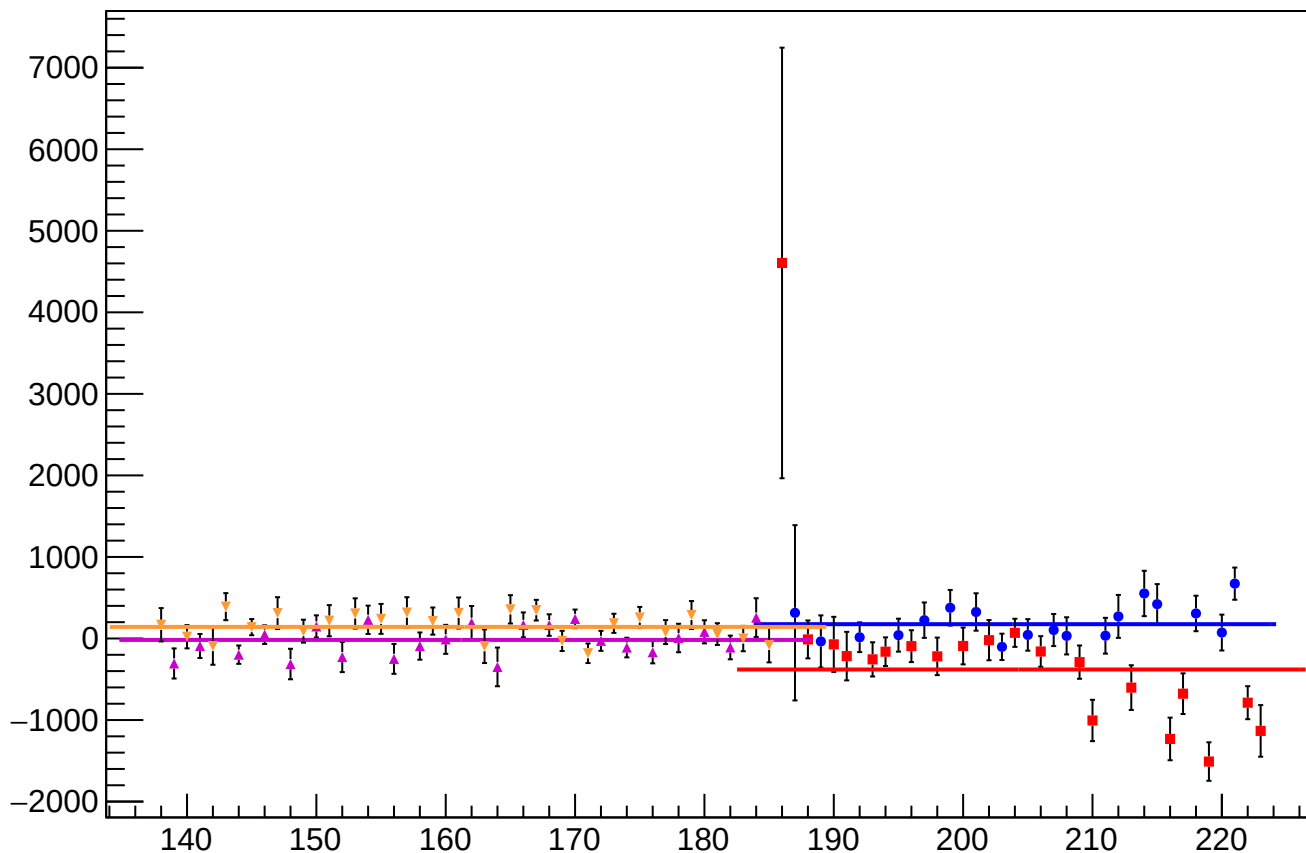
Right: 180.066+/-0.025 χ^2/NDF : 1546637.5/37

In: 136.399+/-0.018 χ^2/NDF :3957463.0/40

Out: 136.301+/-0.018 χ^2/NDF :4793465.4/44

All: 136.349+/-0.013 χ^2/NDF : 8750943.5/85

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 175.508 ± 52.086 $\chi^2/\text{NDF}: 17.3/17$

Left Out: 142.014 ± 30.574 $\chi^2/\text{NDF}: 26.9/24$

Right Out: -380.221 ± 51.804 $\chi^2/\text{NDF}: 75.2/19$

Left In: -17.679 ± 31.209 $\chi^2/\text{NDF}: 30.1/22$

Left: 63.807 ± 21.840 $\chi^2/\text{NDF}: 70.4/47$

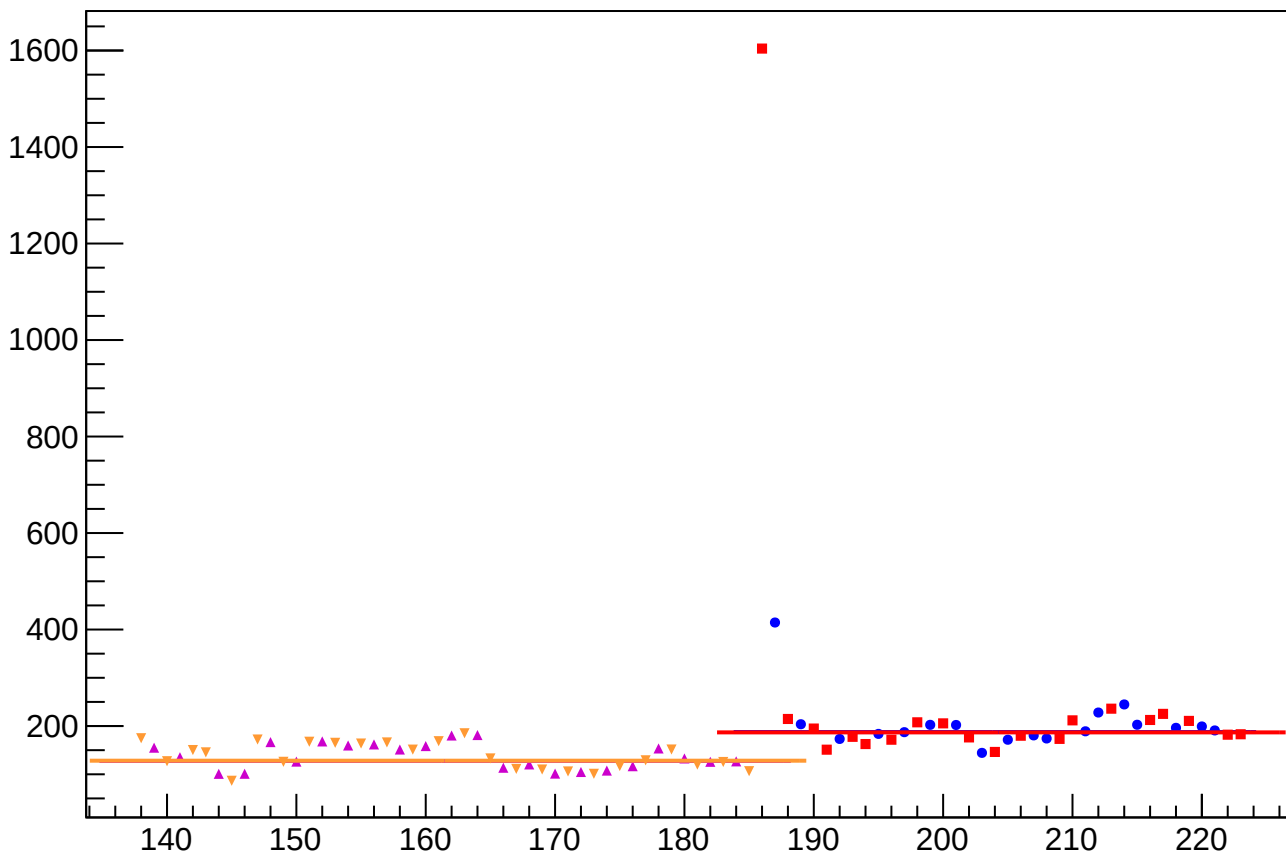
Right: -103.867 ± 36.730 $\chi^2/\text{NDF}: 149.7/37$

In: 33.354 ± 26.771 $\chi^2/\text{NDF}: 57.5/40$

Out: 7.100 ± 26.330 $\chi^2/\text{NDF}: 177.5/44$

All: 20.010 ± 18.772 $\chi^2/\text{NDF}: 235.5/85$

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 187.600 $\pm$ 0.037 χ^2 /NDF: 439238.6/17

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 186.871 $\pm$ 0.037 χ^2 /NDF: 1016207.8/19

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

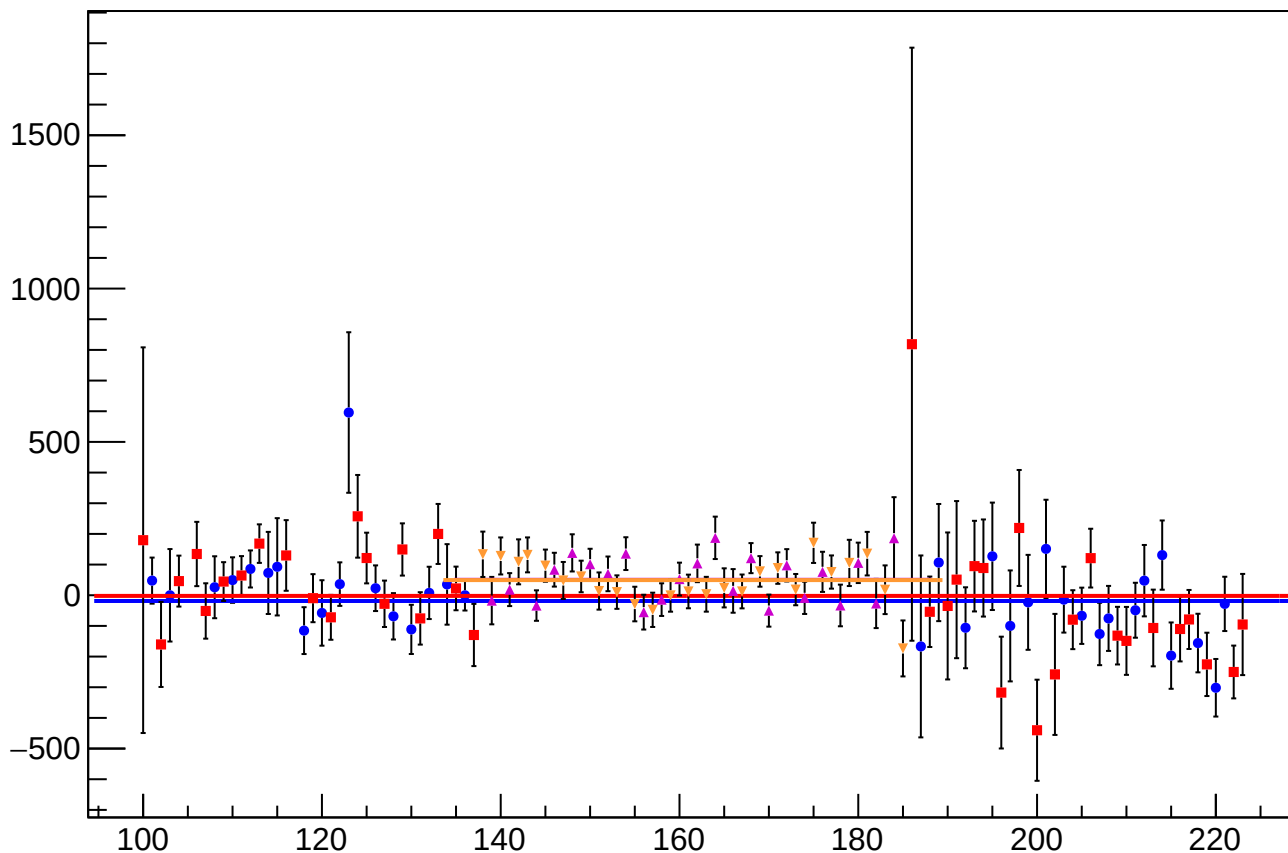
Right: 187.234 $\pm$ 0.026 χ^2 /NDF: 1455642.8/37

In: 143.409 $\pm$ 0.019 χ^2 /NDF:3631404.5/40

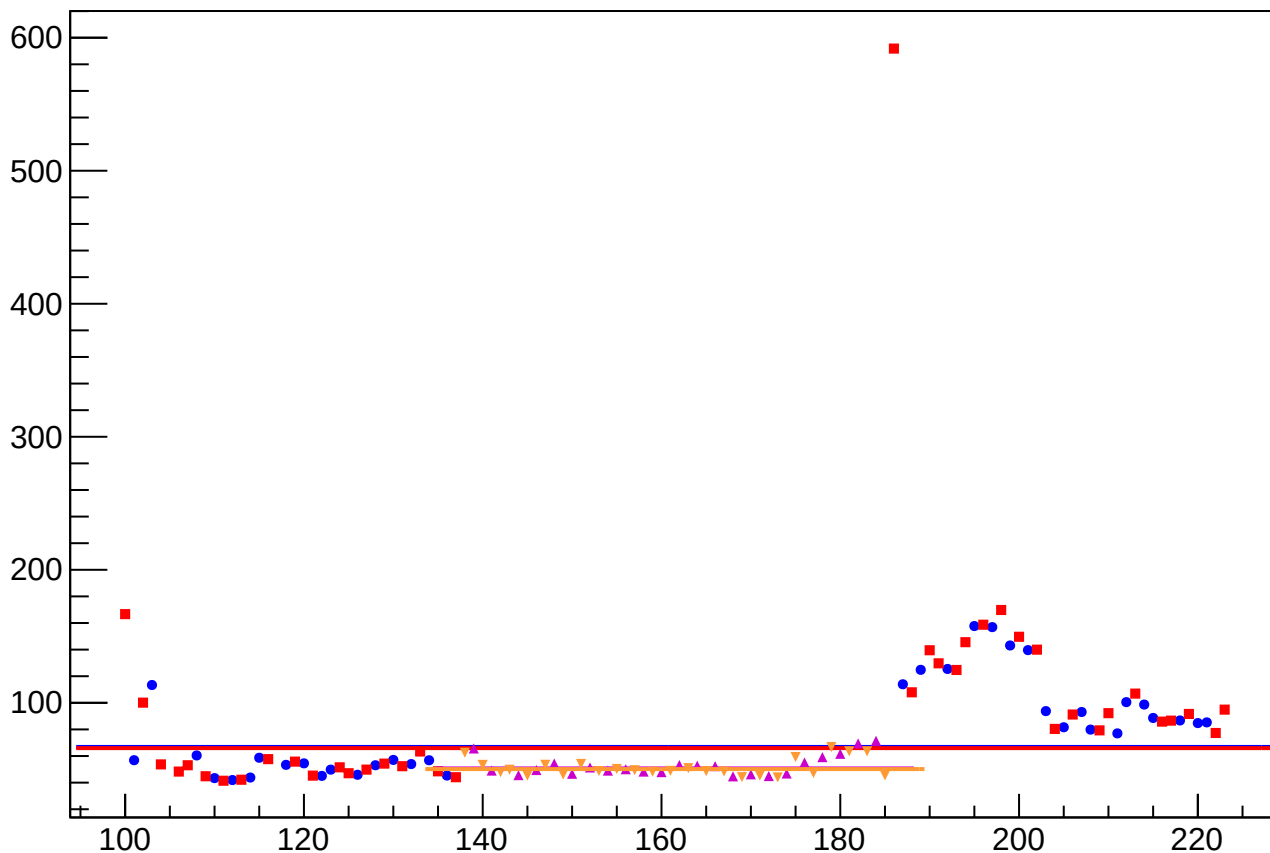
Out: 143.339 $\pm$ 0.019 χ^2 /NDF:4453411.9/44

All: 143.373 $\pm$ 0.013 χ^2 /NDF: 8084823.2/85

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 66.821 $\pm$ 0.011 χ^2 /NDF: 5391683.9/34

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 65.940 $\pm$ 0.011 χ^2 /NDF: 6694141.3/38

Left In: 50.683 $\pm$ 0.009 χ^2 /NDF: 469292.3/22

Left: 50.427 $\pm$ 0.006 χ^2 /NDF: 938655.0/47

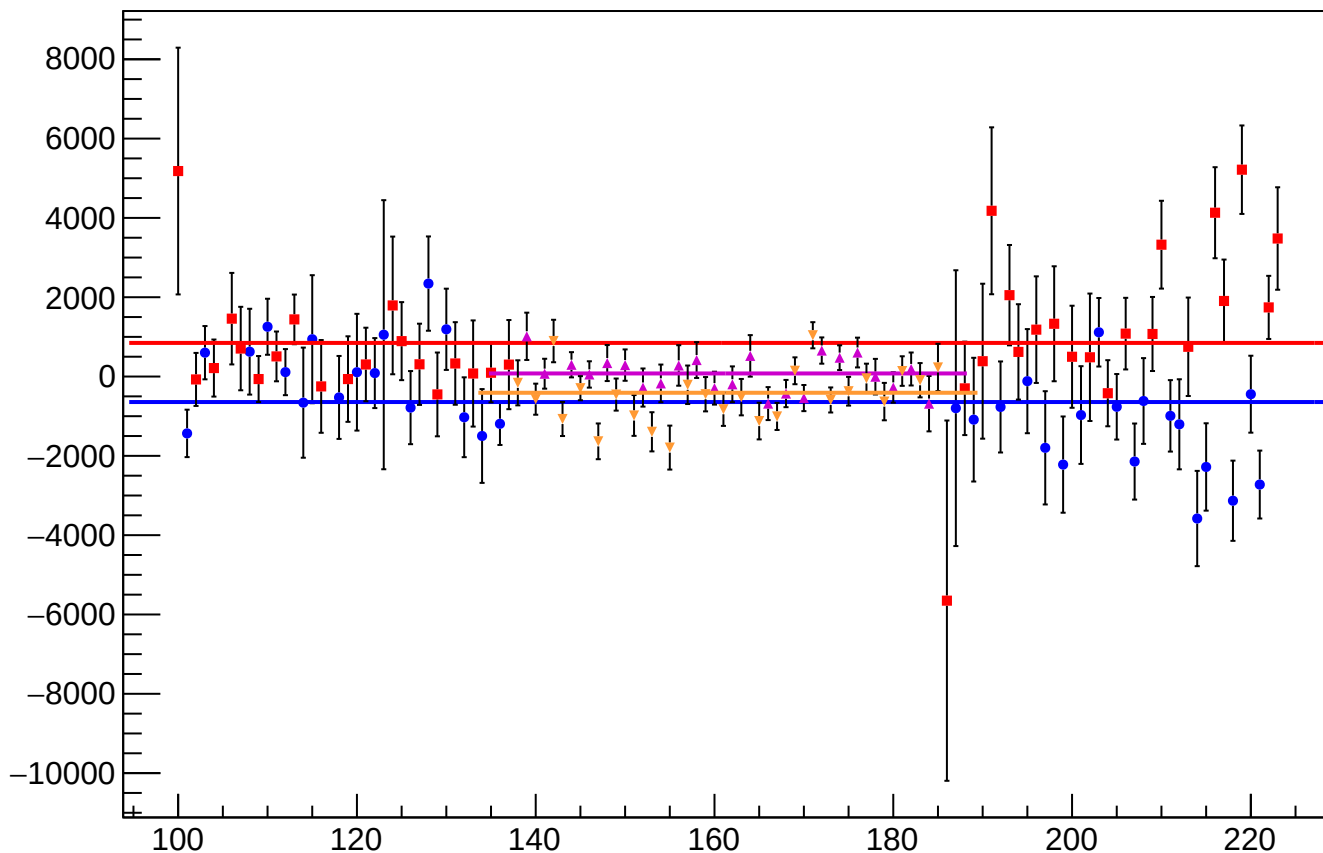
Right: 66.375 $\pm$ 0.008 χ^2 /NDF: 12088810.6/73

In: 56.544 $\pm$ 0.007 χ^2 /NDF: 7120850.7/57

Out: 55.732 $\pm$ 0.007 χ^2 /NDF: 8414498.7/63

All: 56.126 $\pm$ 0.005 χ^2 /NDF: 15542447.1/121

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -642.930 ± 162.500 $\chi^2/\text{NDF}: 58.8/34$

Left Out: -409.164 ± 82.348 $\chi^2/\text{NDF}: 61.7/24$

Right Out: 847.798 ± 161.064 $\chi^2/\text{NDF}: 58.6/38$

Left In: 77.872 ± 84.072 $\chi^2/\text{NDF}: 24.8/22$

Left: -170.691 ± 58.829 $\chi^2/\text{NDF}: 103.6/47$

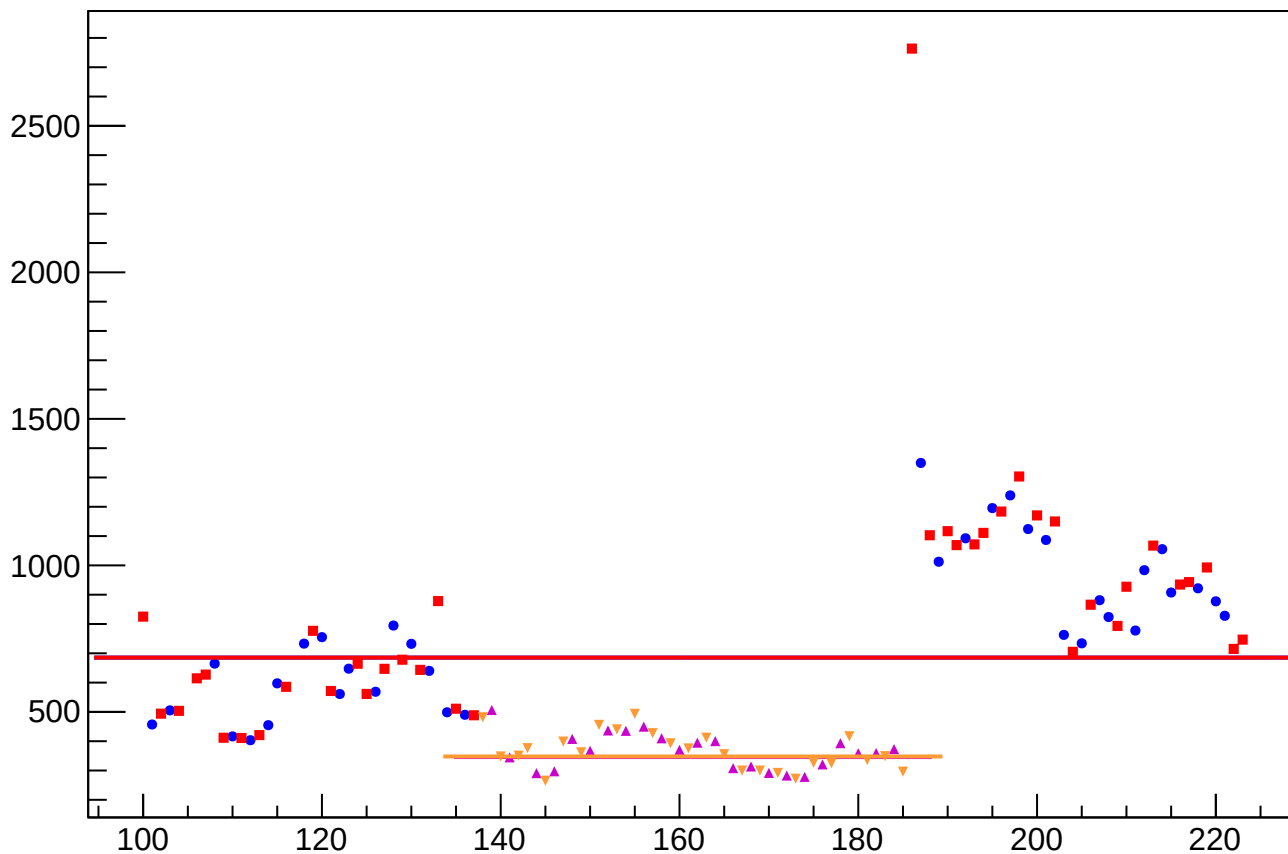
Right: 109.051 ± 114.394 $\chi^2/\text{NDF}: 159.9/73$

In: -74.326 ± 74.671 $\chi^2/\text{NDF}: 99.1/57$

Out: -148.680 ± 73.321 $\chi^2/\text{NDF}: 168.6/63$

All: -112.181 ± 52.316 $\chi^2/\text{NDF}: 268.2/121$

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 685.375+/-0.115 χ^2/NDF : 3982322.7/34

Left Out: 347.875+/-0.058 χ^2/NDF : 1044096.7/24

Right Out: 685.262+/-0.114 χ^2/NDF : 4930554.4/38

Left In: 345.954+/-0.059 χ^2/NDF : 900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

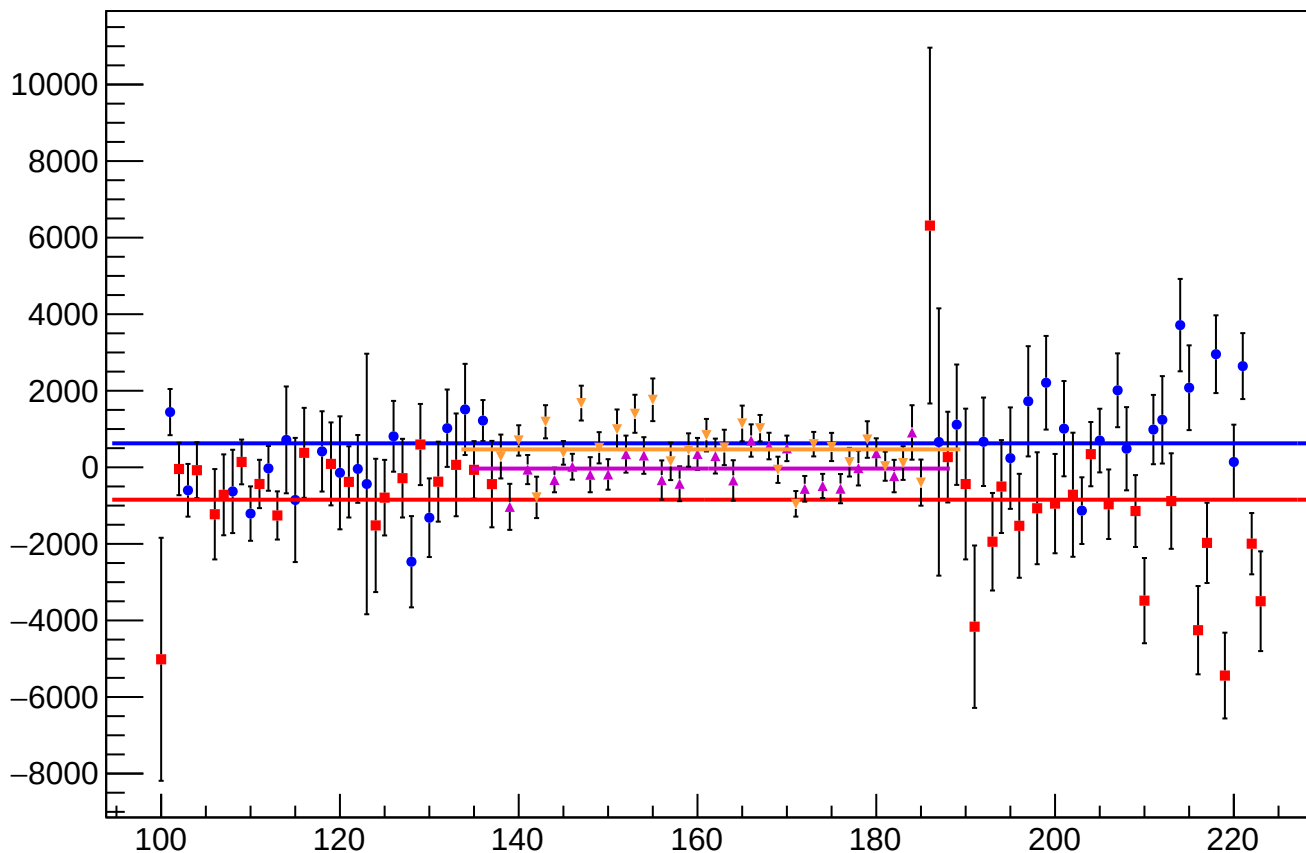
Right: 685.318+/-0.081 χ^2/NDF : 8912877.6/73

In: 417.623+/-0.053 χ^2/NDF : 11766428.0/57

Out: 417.793+/-0.052 χ^2/NDF : 12931868.4/63

All: 417.710+/-0.037 χ^2/NDF : 24698301.6/120

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 626.679 $\pm$ 163.596 χ^2 /NDF: 56.8/34

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -845.700 $\pm$ 162.234 χ^2 /NDF: 61.8/38

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

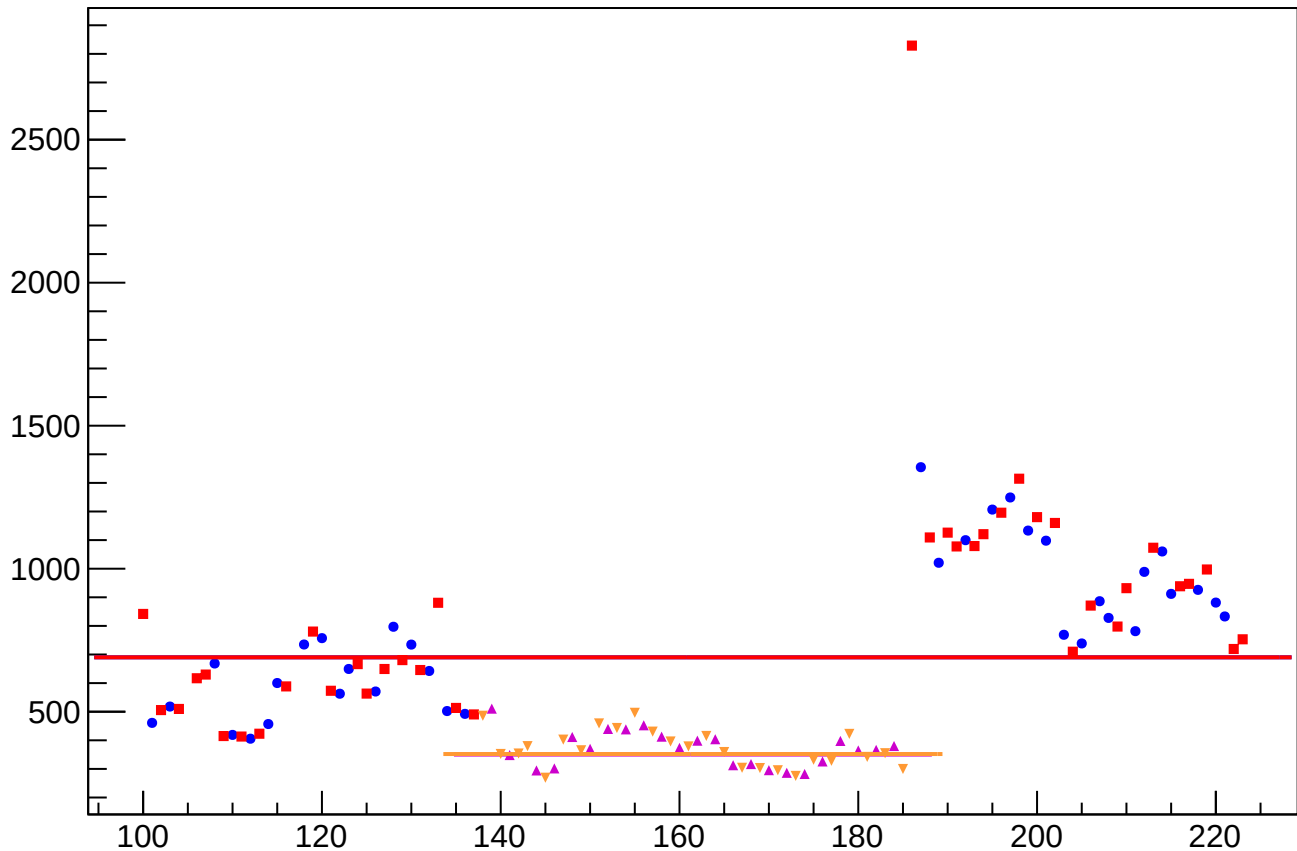
Right: -115.669 $\pm$ 115.195 χ^2 /NDF: 159.4/73

In: 107.550 $\pm$ 75.471 χ^2 /NDF:95.2/57

Out: 194.624 $\pm$ 74.099 χ^2 /NDF:171.3/63

All: 151.885 $\pm$ 52.874 χ^2 /NDF: 267.2/121

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 690.137 $\pm$ 0.116 χ^2 /NDF: 3969101.0/34

Left Out: 352.015 $\pm$ 0.059 χ^2 /NDF: 1017195.6/24

Right Out: 690.125 $\pm$ 0.115 χ^2 /NDF: 4923301.7/38

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

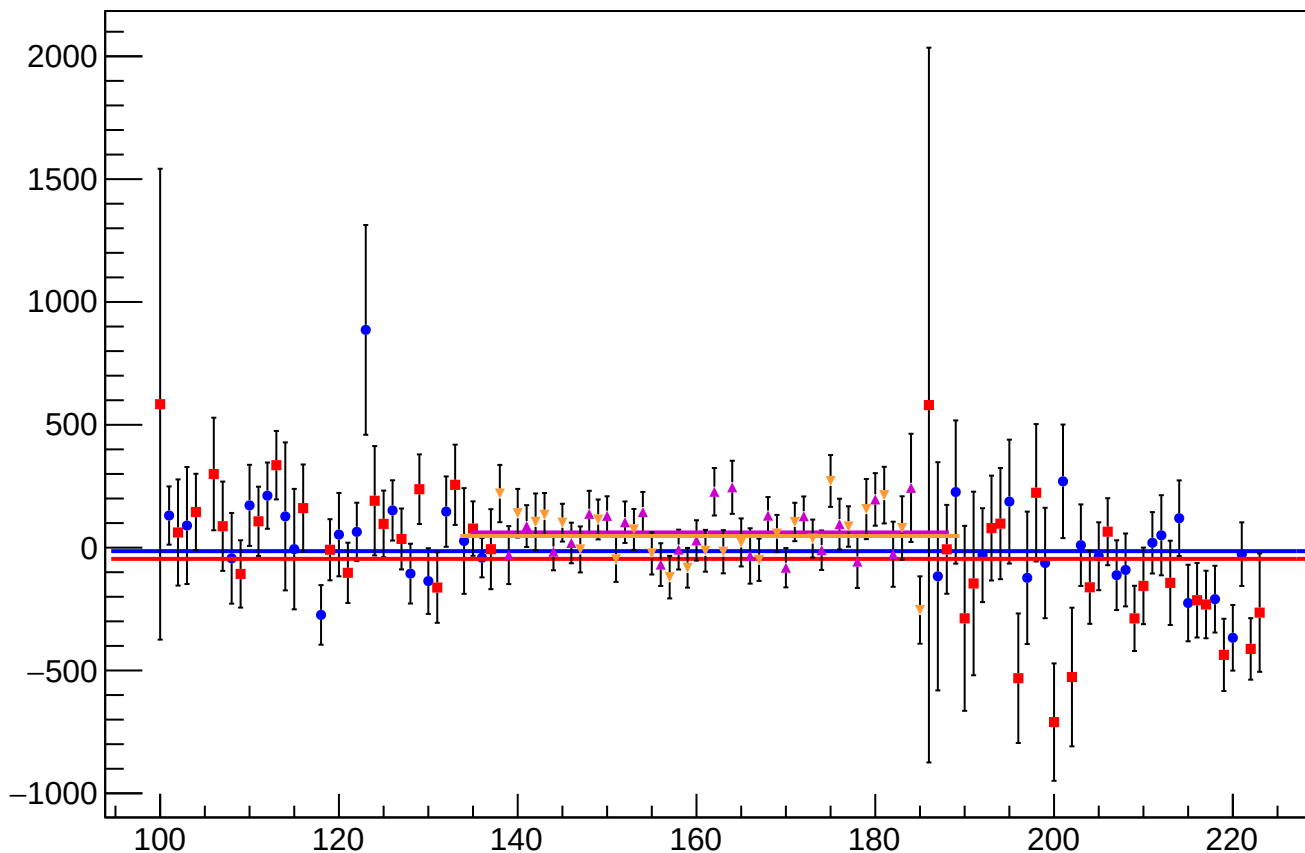
Right: 690.131 $\pm$ 0.081 χ^2 /NDF: 8892402.7/73

In: 422.514 $\pm$ 0.053 χ^2 /NDF: 11646613.6/57

Out: 422.550 $\pm$ 0.052 χ^2 /NDF: 12815191.5/63

All: 422.532 $\pm$ 0.037 χ^2 /NDF: 24461805.4/120

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -14.242 ± 25.959 χ^2/NDF : 36.0/34

Left Out: 47.426 ± 18.253 χ^2/NDF : 29.4/24

Right Out: -45.723 ± 26.497 χ^2/NDF : 68.9/38

Left In: 61.830 ± 18.958 χ^2/NDF : 24.0/22

Left: 54.355 ± 13.149 χ^2/NDF : 53.7/47

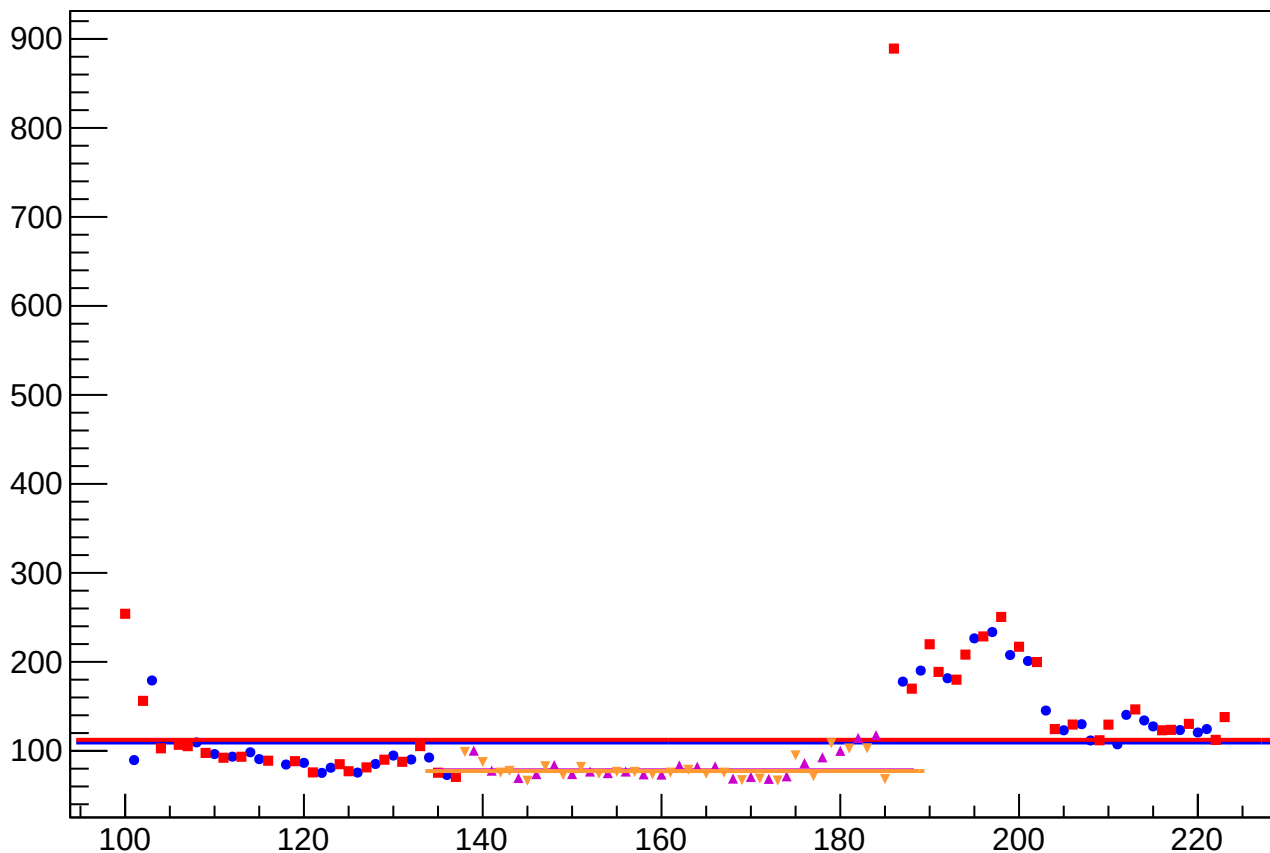
Right: -29.659 ± 18.543 χ^2/NDF : 105.7/73

In: 35.370 ± 15.310 χ^2/NDF : 65.6/57

Out: 17.448 ± 15.031 χ^2/NDF : 106.7/63

All: 26.245 ± 10.726 χ^2/NDF : 173.0/121

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 109.408 $\pm$ 0.018 χ^2 /NDF: 3699710.8/34

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF:635622.3/24

Right Out: 112.417 $\pm$ 0.019 χ^2 /NDF: 4535919.3/38

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

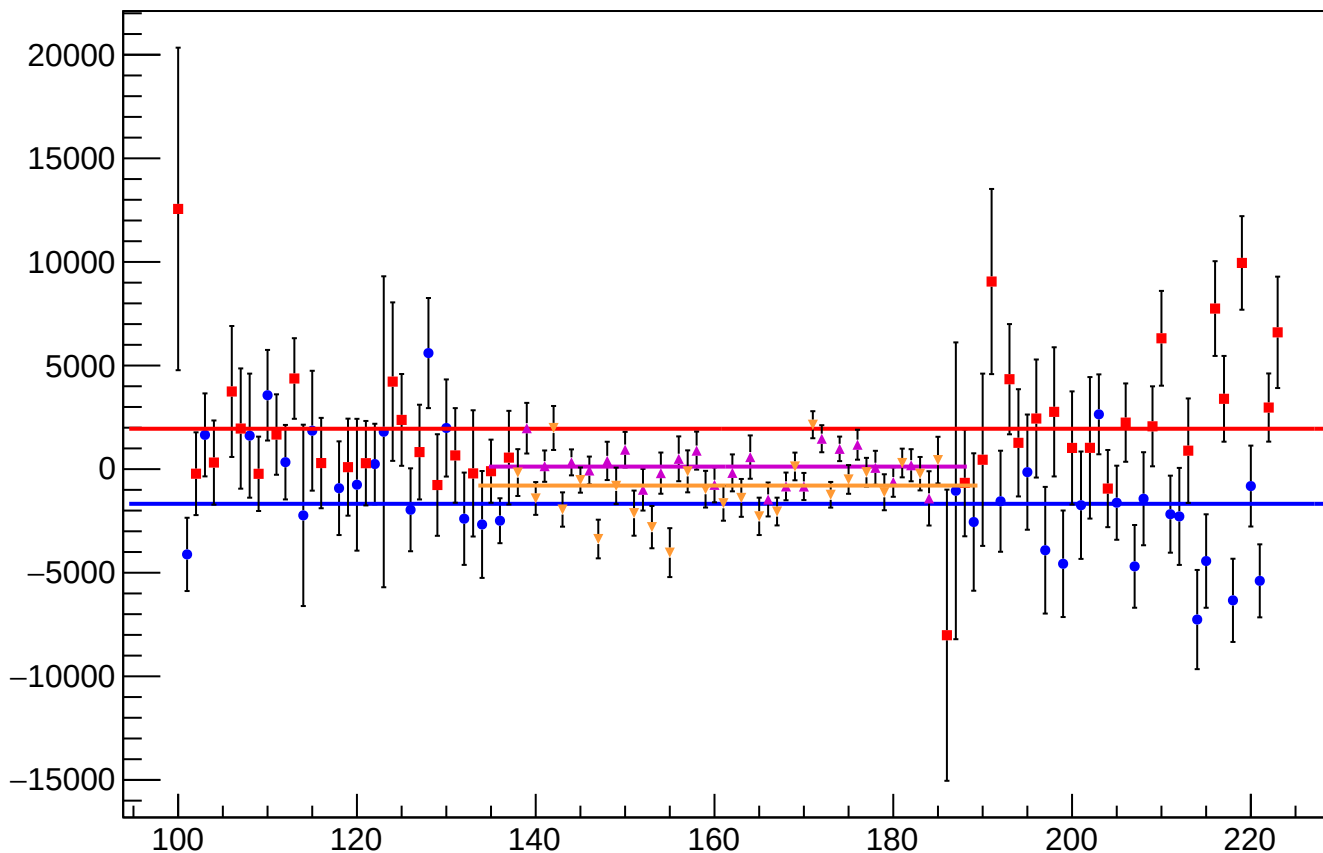
Right: 110.882 $\pm$ 0.013 χ^2 /NDF: 8248788.3/73

In: 89.015 $\pm$ 0.011 χ^2 /NDF:6174490.3/57

Out: 88.613 $\pm$ 0.011 χ^2 /NDF:7551831.5/63

All: 88.810 $\pm$ 0.008 χ^2 /NDF: 13727026.5/121

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1673.563 ± 371.517 $\chi^2/\text{NDF}: 53.1/34$

Left Out: -792.776 ± 162.659 $\chi^2/\text{NDF}: 66.6/24$

Right Out: 1949.311 ± 375.617 $\chi^2/\text{NDF}: 49.8/38$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

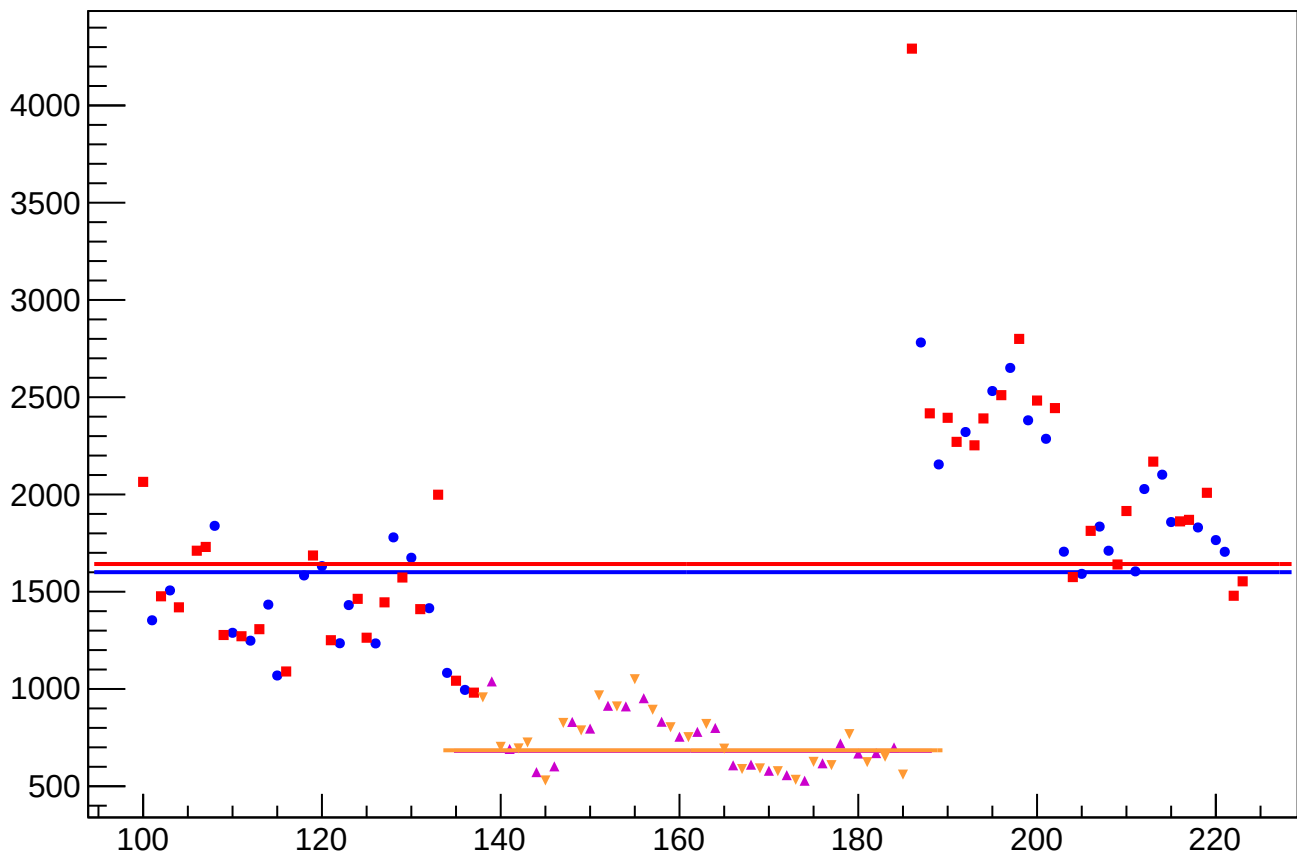
Right: 117.993 ± 264.140 $\chi^2/\text{NDF}: 149.9/73$

In: -177.234 ± 151.706 $\chi^2/\text{NDF}: 98.5/57$

Out: -359.761 ± 149.264 $\chi^2/\text{NDF}: 161.3/63$

All: -269.978 ± 106.399 $\chi^2/\text{NDF}: 260.5/121$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1600.567+/-0.263 χ^2/NDF : 2447761.7/34

Left Out: 684.785+/-0.115 χ^2/NDF : 1280146.2/24

Right Out: 1642.448+/-0.266 χ^2/NDF : 2929079.6/38

Left In: 681.712+/-0.118 χ^2/NDF : 1119637.0/22

Left: 683.282+/-0.082 χ^2/NDF : 2400132.5/47

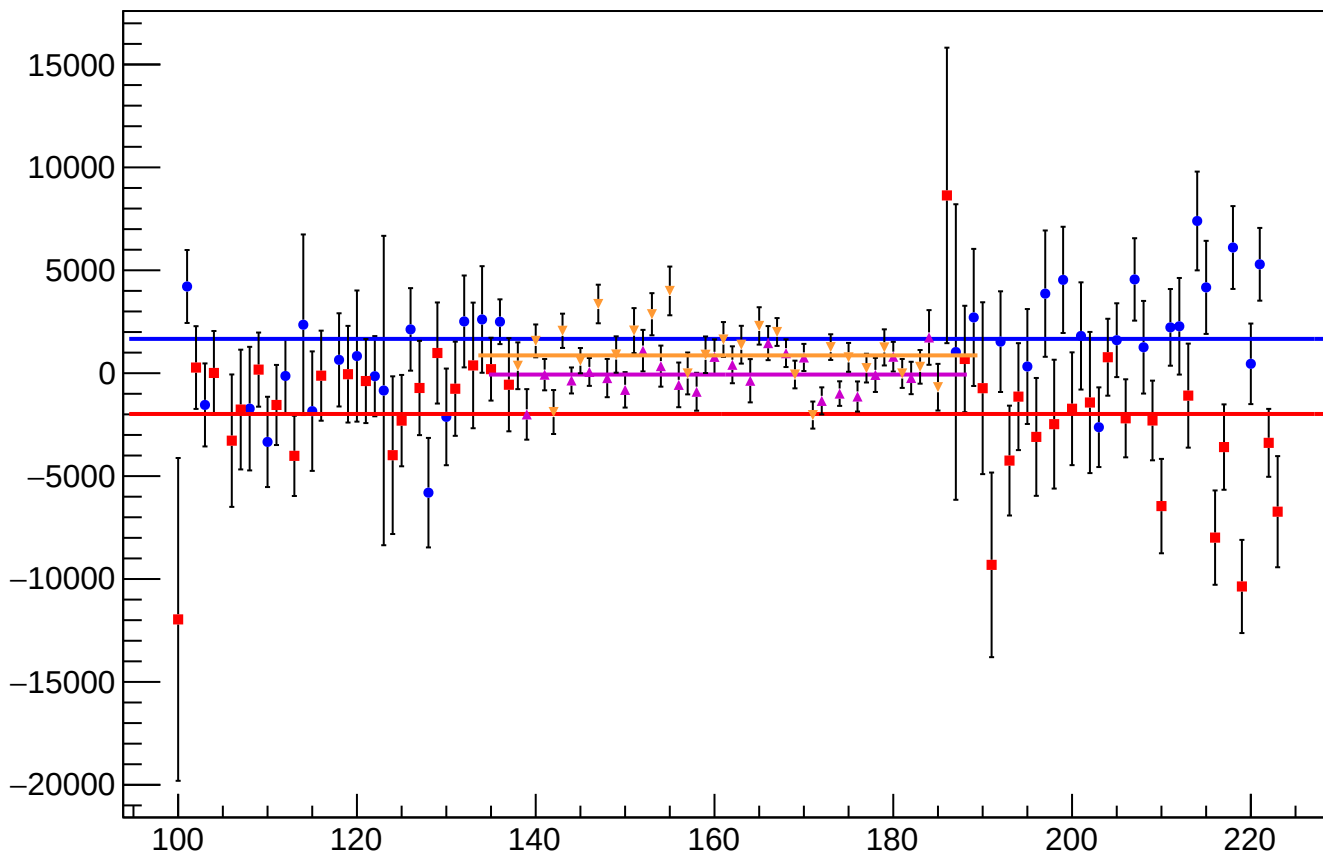
Right: 1621.278+/-0.187 χ^2/NDF : 5389409.7/73

In: 834.925+/-0.107 χ^2/NDF : 13761420.5/57

Out: 836.013+/-0.106 χ^2/NDF : 15156892.5/63

All: 835.478+/-0.075 χ^2/NDF : 28918365.3/12

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1667.250+/-372.610 χ^2/NDF : 51.9/34

Left Out: 865.597+/-163.885 χ^2/NDF : 62.8/24

Right Out: -1980.752+/-376.846 χ^2/NDF : 52.2/38

Left In: -65.924+/-167.485 χ^2/NDF : 26.4/22

Left: 409.953+/-117.136 χ^2/NDF : 105.1/47

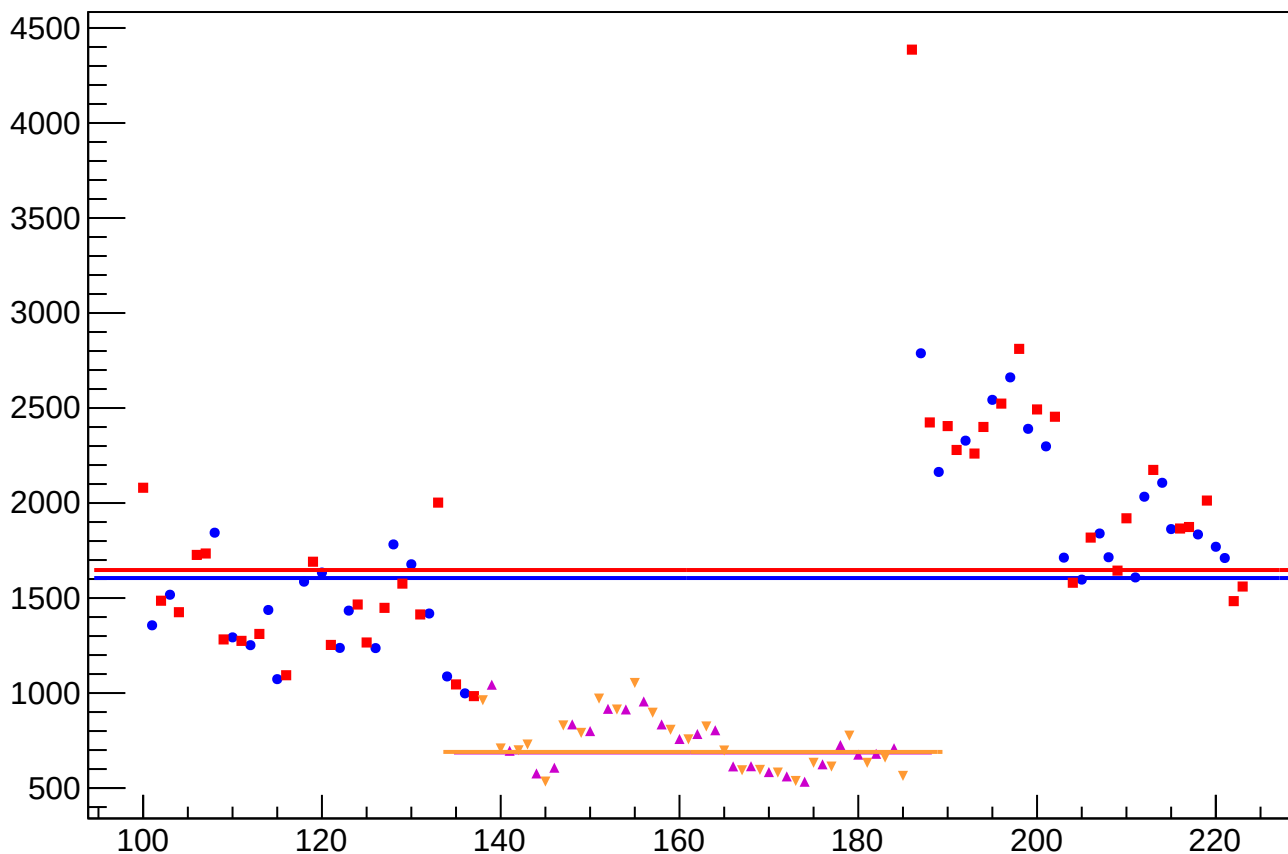
Right: -136.132+/-264.960 χ^2/NDF : 151.4/73

In: 225.391+/-152.762 χ^2/NDF : 96.3/57

Out: 412.894+/-150.289 χ^2/NDF : 163.0/63

All: 320.673+/-107.134 χ^2/NDF : 260.0/121

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1605.221 $\pm$ 0.263 χ^2/NDF : 2450688.9/34

Left Out: 690.166 $\pm$ 0.116 χ^2/NDF :1258158.2/24

Right Out: 1647.378 $\pm$ 0.266 χ^2/NDF : 2940107.1/38

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

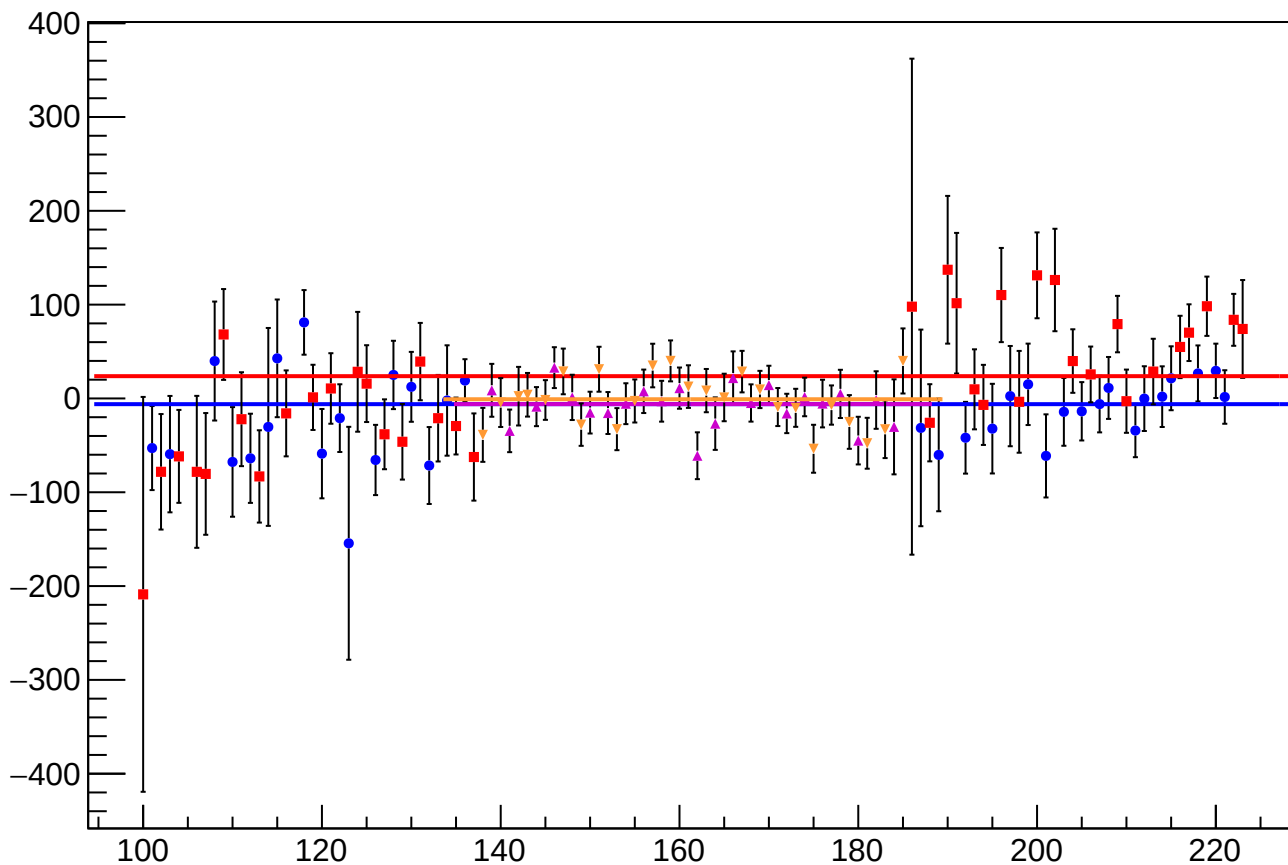
Right: 1626.061 $\pm$ 0.187 χ^2/NDF : 5403452.1/73

In: 841.517 $\pm$ 0.108 χ^2/NDF :13649703.4/57

Out: 842.408 $\pm$ 0.106 χ^2/NDF :15049788.5/63

All: 841.969 $\pm$ 0.076 χ^2/NDF : 28699526.5/12

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -6.098 ± 6.545 χ^2/NDF : 30.9/34

Left Out: -0.861 ± 4.760 χ^2/NDF : 27.9/24

Right Out: 23.746 ± 6.711 χ^2/NDF : 68.5/38

Left In: -6.042 ± 4.925 χ^2/NDF : 16.9/22

Left: -3.363 ± 3.423 χ^2/NDF : 45.4/47

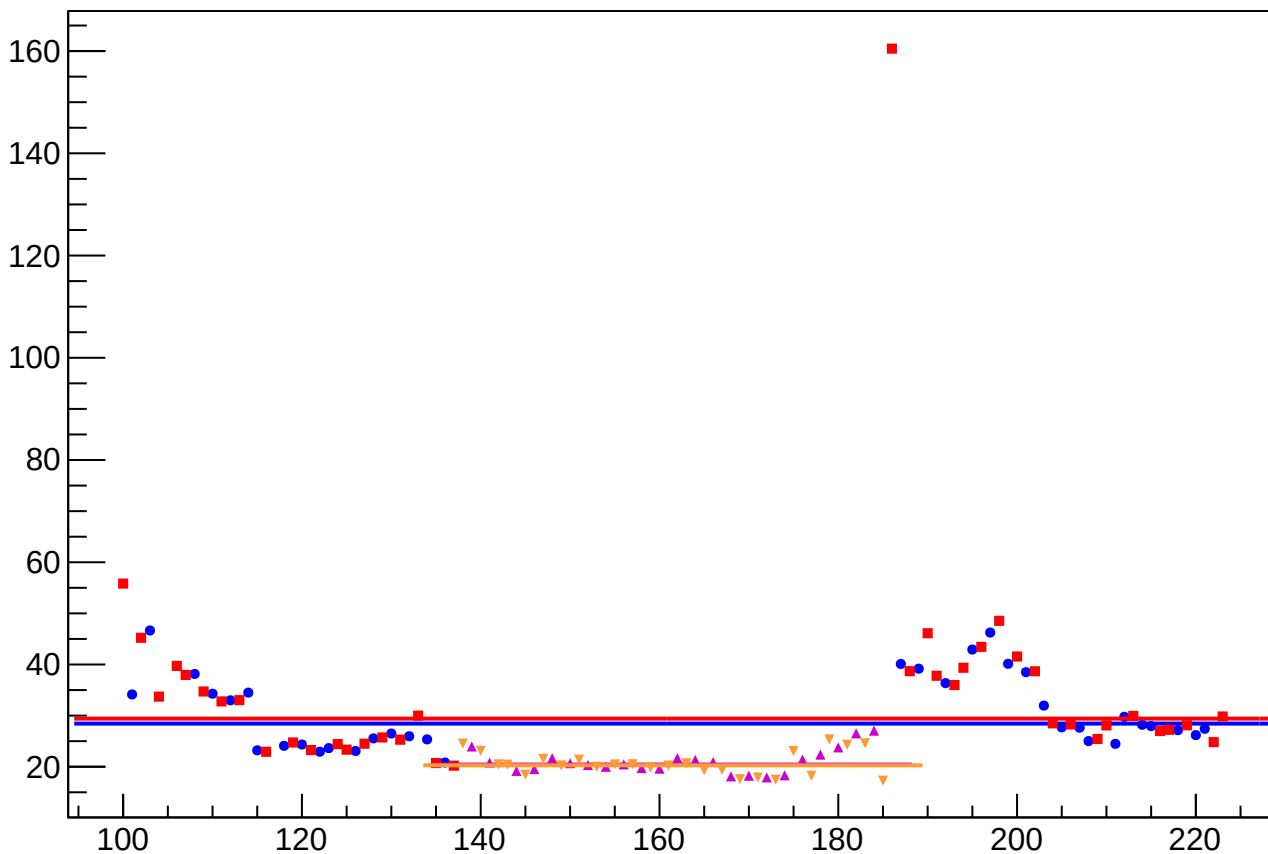
Right: 8.451 ± 4.686 χ^2/NDF : 109.5/73

In: -6.062 ± 3.936 χ^2/NDF : 47.8/57

Out: 7.375 ± 3.883 χ^2/NDF : 105.4/63

All: 0.747 ± 2.764 χ^2/NDF : 159.1/121

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.438 $\pm$ 0.005 χ^2 /NDF: 1634862.4/34

Left Out: 20.279 $\pm$ 0.003 χ^2 /NDF: 407056.4/24

Right Out: 29.412 $\pm$ 0.005 χ^2 /NDF: 2380744.3/38

Left In: 20.424 $\pm$ 0.003 χ^2 /NDF: 323427.4/22

Left: 20.349 $\pm$ 0.002 χ^2 /NDF: 731373.7/47

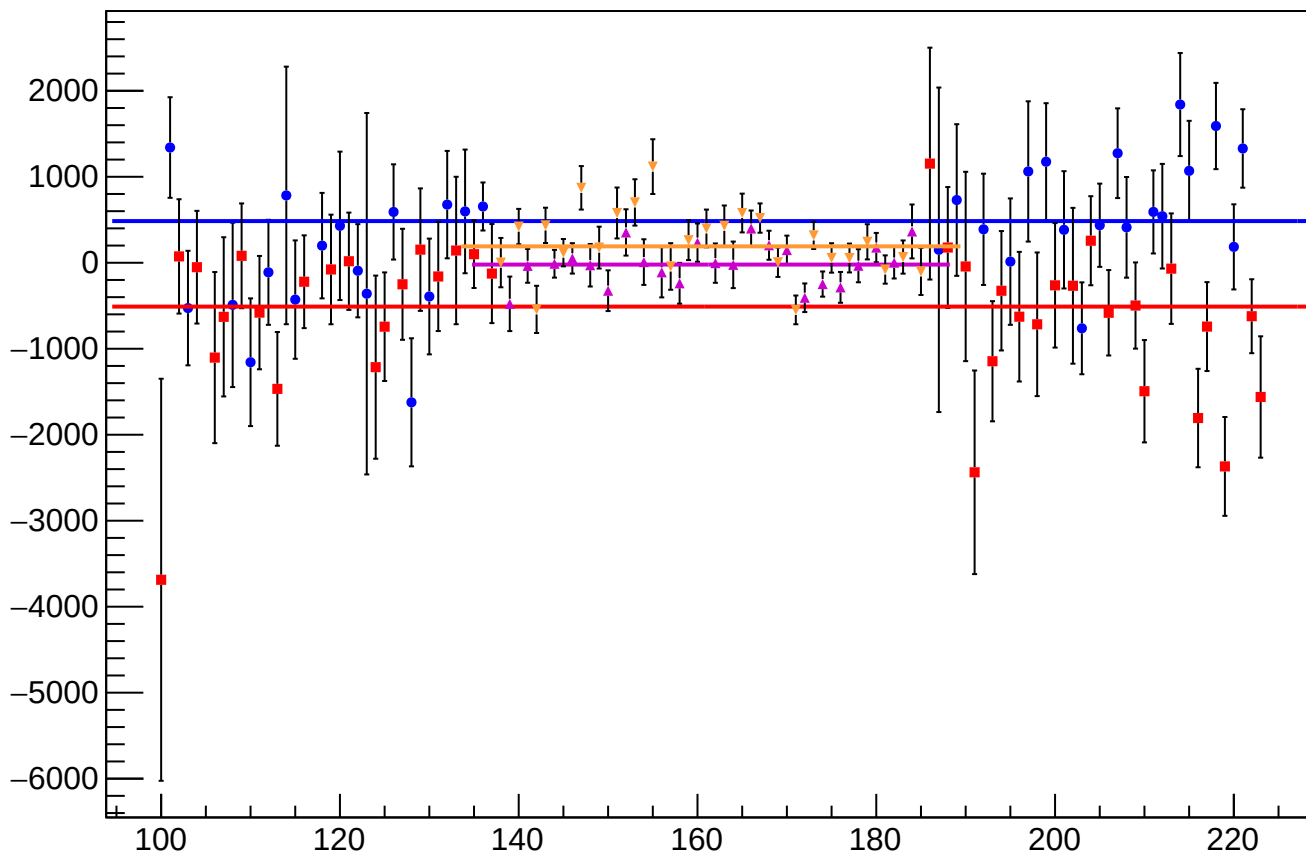
Right: 28.913 $\pm$ 0.003 χ^2 /NDF: 4037239.9/73

In: 23.321 $\pm$ 0.003 χ^2 /NDF: 3872410.1/57

Out: 23.336 $\pm$ 0.003 χ^2 /NDF: 5252005.0/63

All: 23.329 $\pm$ 0.002 χ^2 /NDF: 9124430.4/121

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 484.749 $\pm$ 101.486 χ^2 /NDF: 49.6/34

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -509.919 $\pm$ 103.629 χ^2 /NDF: 43.4/38

Left In: -20.998 $\pm$ 42.291 χ^2 /NDF: 27.7/22

Left: 87.410 $\pm$ 29.553 χ^2 /NDF: 108.4/47

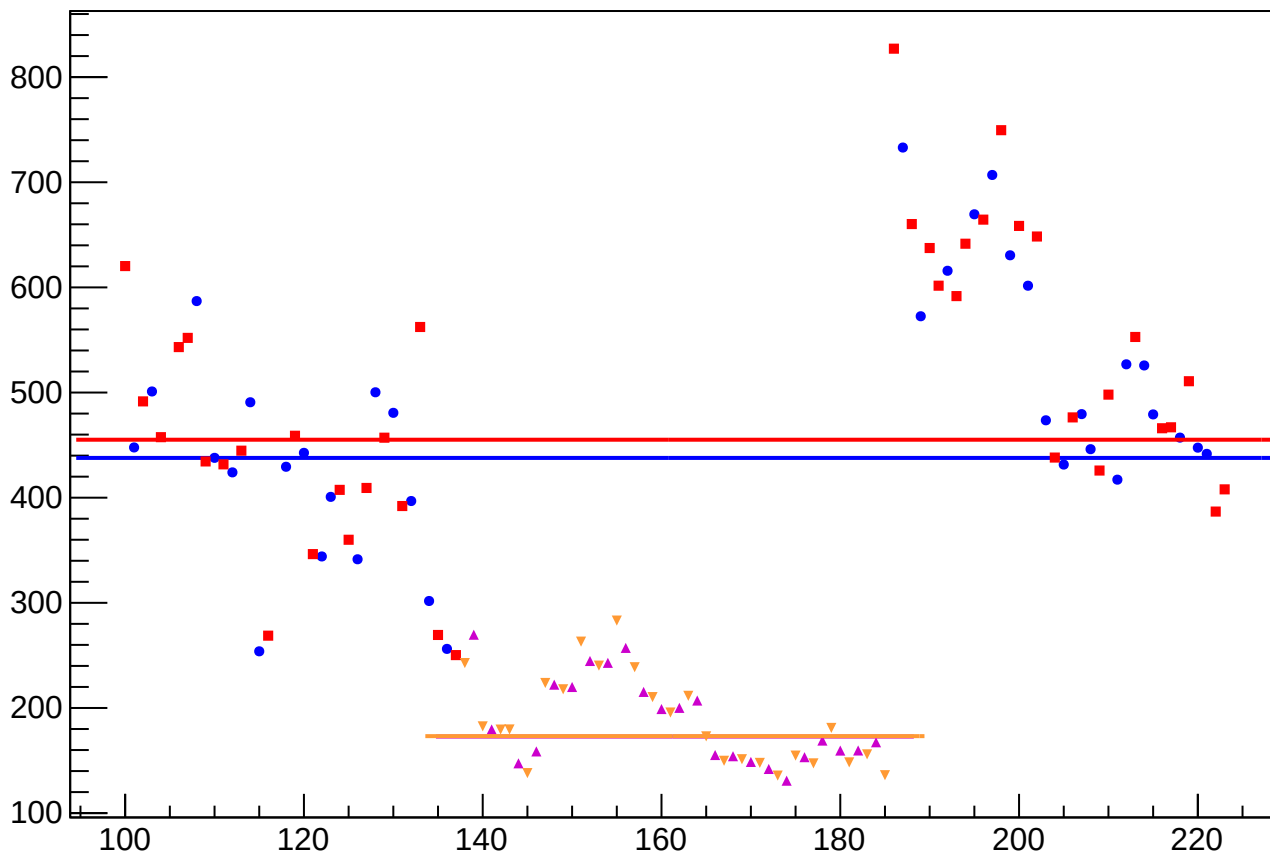
Right: -2.191 $\pm$ 72.507 χ^2 /NDF: 140.0/73

In: 53.832 $\pm$ 39.037 χ^2 /NDF: 98.5/57

Out: 94.761 $\pm$ 38.377 χ^2 /NDF: 150.8/63

All: 74.645 $\pm$ 27.367 χ^2 /NDF: 249.8/121

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 437.822 $\pm$ 0.072 χ^2 /NDF: 2347836.9/34

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 455.133 $\pm$ 0.073 χ^2 /NDF: 2609561.7/38

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

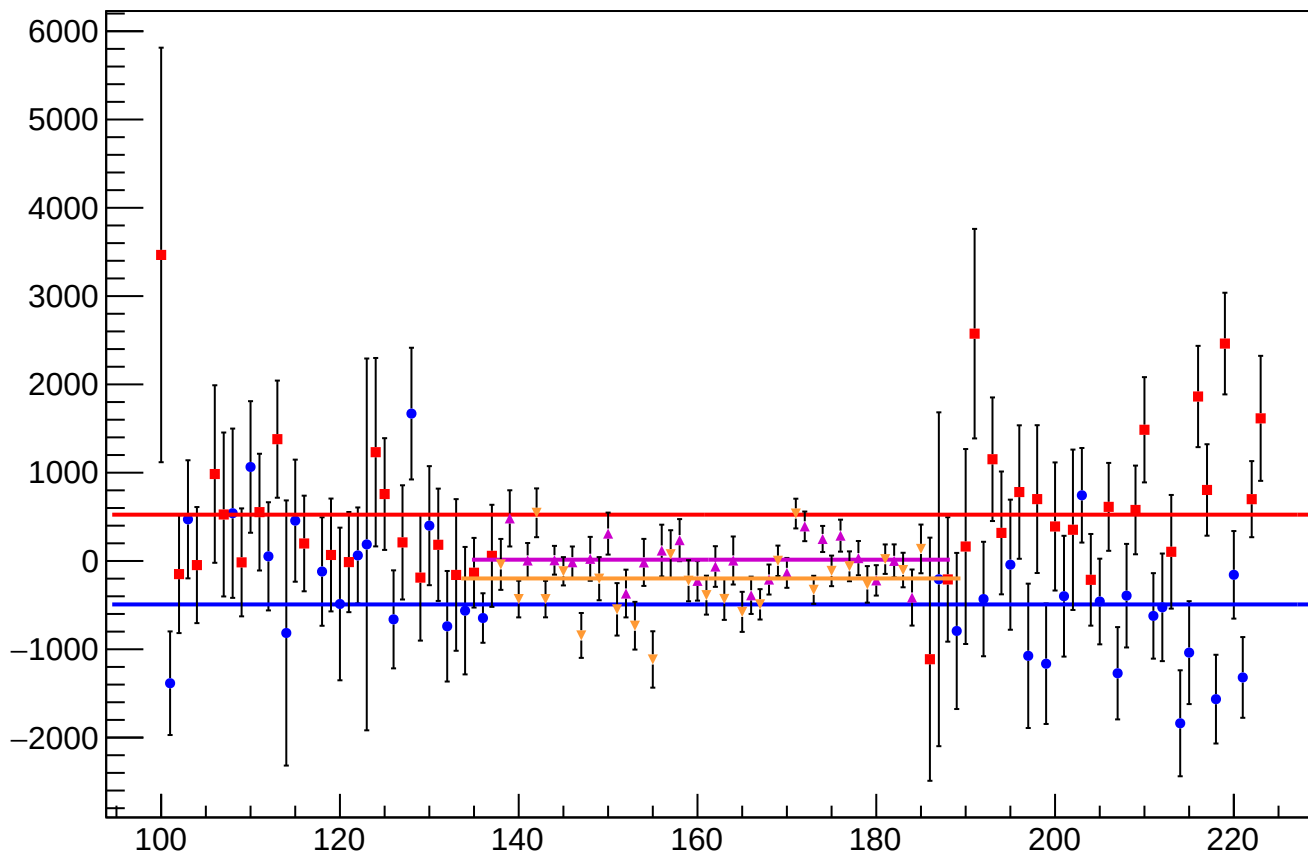
Right: 446.297 $\pm$ 0.051 χ^2 /NDF: 4985887.3/73

In: 212.036 $\pm$ 0.028 χ^2 /NDF:15338575.1/57

Out: 211.873 $\pm$ 0.027 χ^2 /NDF:16943043.0/63

All: 211.953 $\pm$ 0.019 χ^2 /NDF: 32281635.9/12

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -492.116 ± 101.731 $\chi^2/\text{NDF}: 48.7/34$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 524.567 ± 103.898 $\chi^2/\text{NDF}: 45.3/38$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

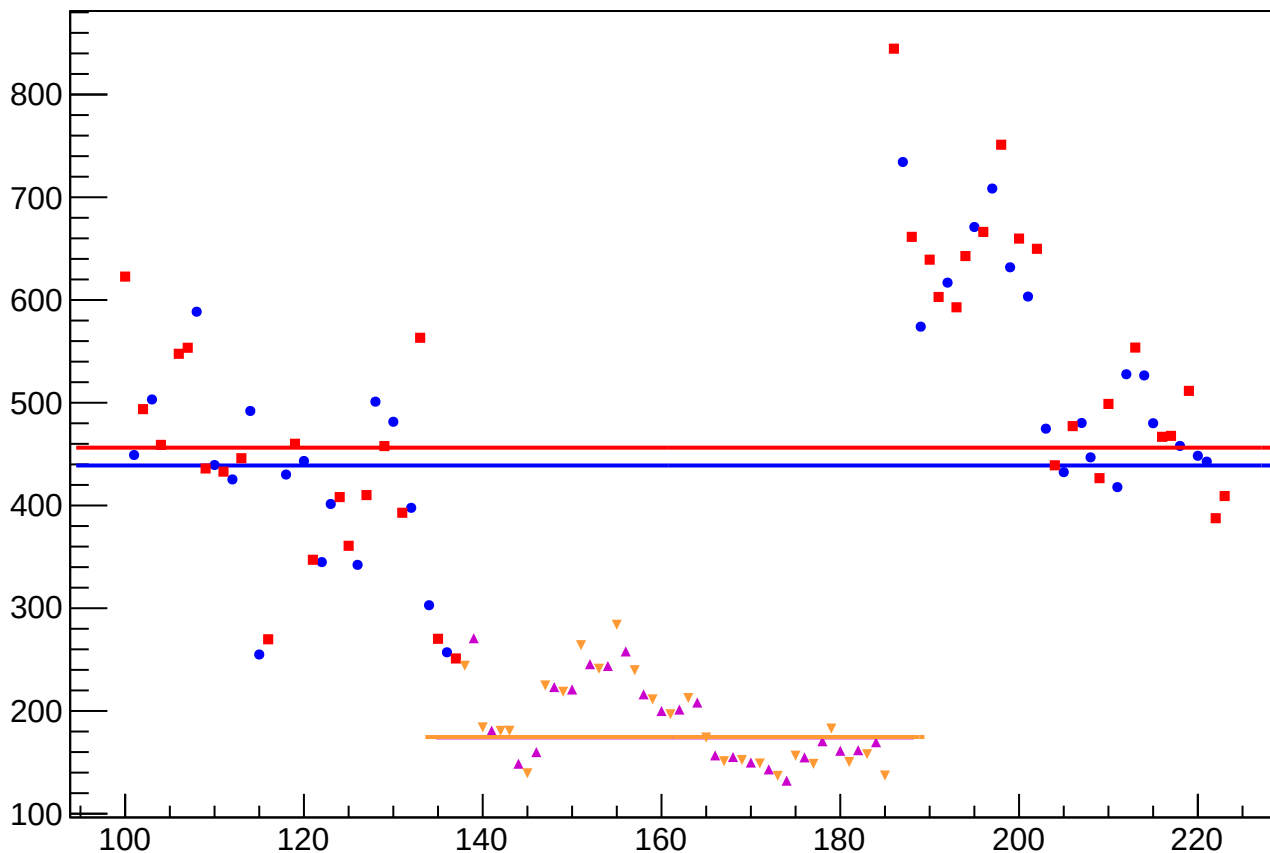
Right: 5.516 ± 72.689 $\chi^2/\text{NDF}: 142.9/73$

In: -61.073 ± 39.317 $\chi^2/\text{NDF}: 97.5/57$

Out: -97.938 ± 38.650 $\chi^2/\text{NDF}: 151.3/63$

All: -79.821 ± 27.562 $\chi^2/\text{NDF}: 249.2/121$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 438.933 $\pm$ 0.072 χ^2 /NDF: 2340012.7/34

Left Out: 174.648 $\pm$ 0.029 χ^2 /NDF:1531999.5/24

Right Out: 456.287 $\pm$ 0.073 χ^2 /NDF: 2611833.3/38

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

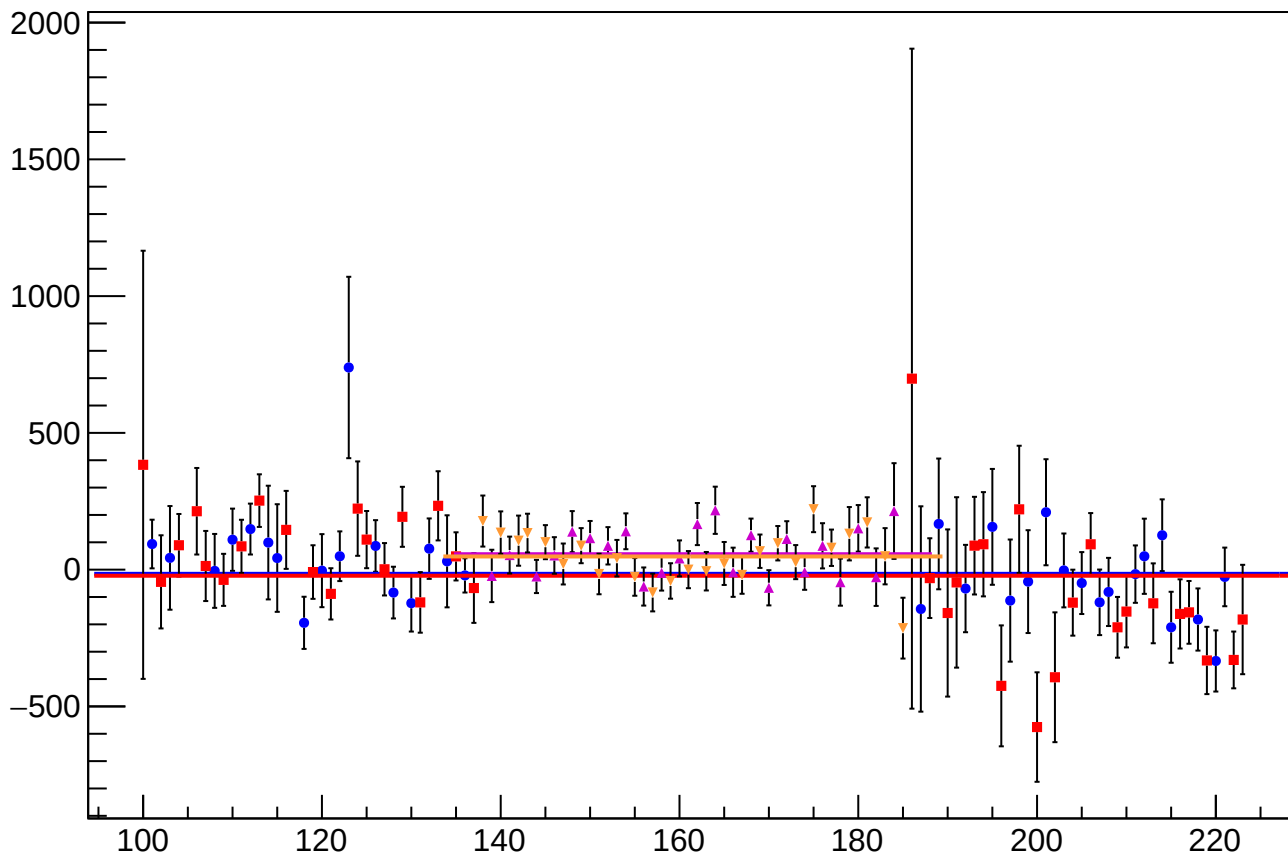
Right: 447.427 $\pm$ 0.051 χ^2 /NDF: 4980333.2/73

In: 213.817 $\pm$ 0.028 χ^2 /NDF:15197827.5/57

Out: 213.622 $\pm$ 0.027 χ^2 /NDF:16806313.0/63

All: 213.718 $\pm$ 0.019 χ^2 /NDF: 32004165.5/12

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -15.275 ± 20.536 χ^2/NDF : 37.1/34

Left Out: 48.233 ± 14.616 χ^2/NDF : 29.3/24

Right Out: -22.237 ± 20.757 χ^2/NDF : 68.2/38

Left In: 56.403 ± 15.182 χ^2/NDF : 27.5/22

Left: 52.163 ± 10.529 χ^2/NDF : 56.9/47

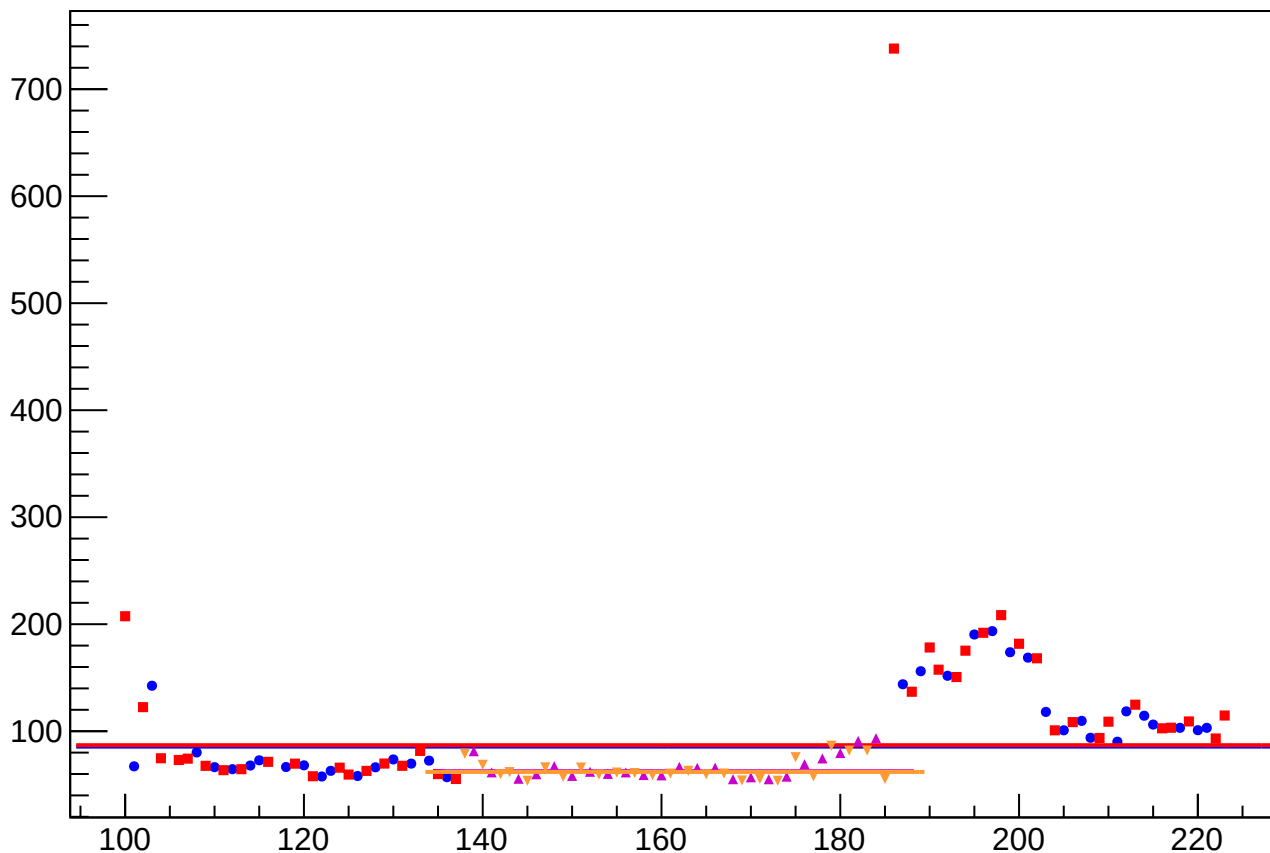
Right: -18.718 ± 14.599 χ^2/NDF : 105.4/73

In: 31.073 ± 12.208 χ^2/NDF : 72.5/57

Out: 24.876 ± 11.950 χ^2/NDF : 105.2/63

All: 27.908 ± 8.540 χ^2/NDF : 177.8/121

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 85.597 $\pm$ 0.015 χ^2 /NDF: 4492258.2/34

Left Out: 61.946 $\pm$ 0.010 χ^2 /NDF: 604989.2/24

Right Out: 86.927 $\pm$ 0.015 χ^2 /NDF: 5435626.2/38

Left In: 62.607 $\pm$ 0.011 χ^2 /NDF: 575516.1/22

Left: 62.264 $\pm$ 0.007 χ^2 /NDF: 1182470.7/47

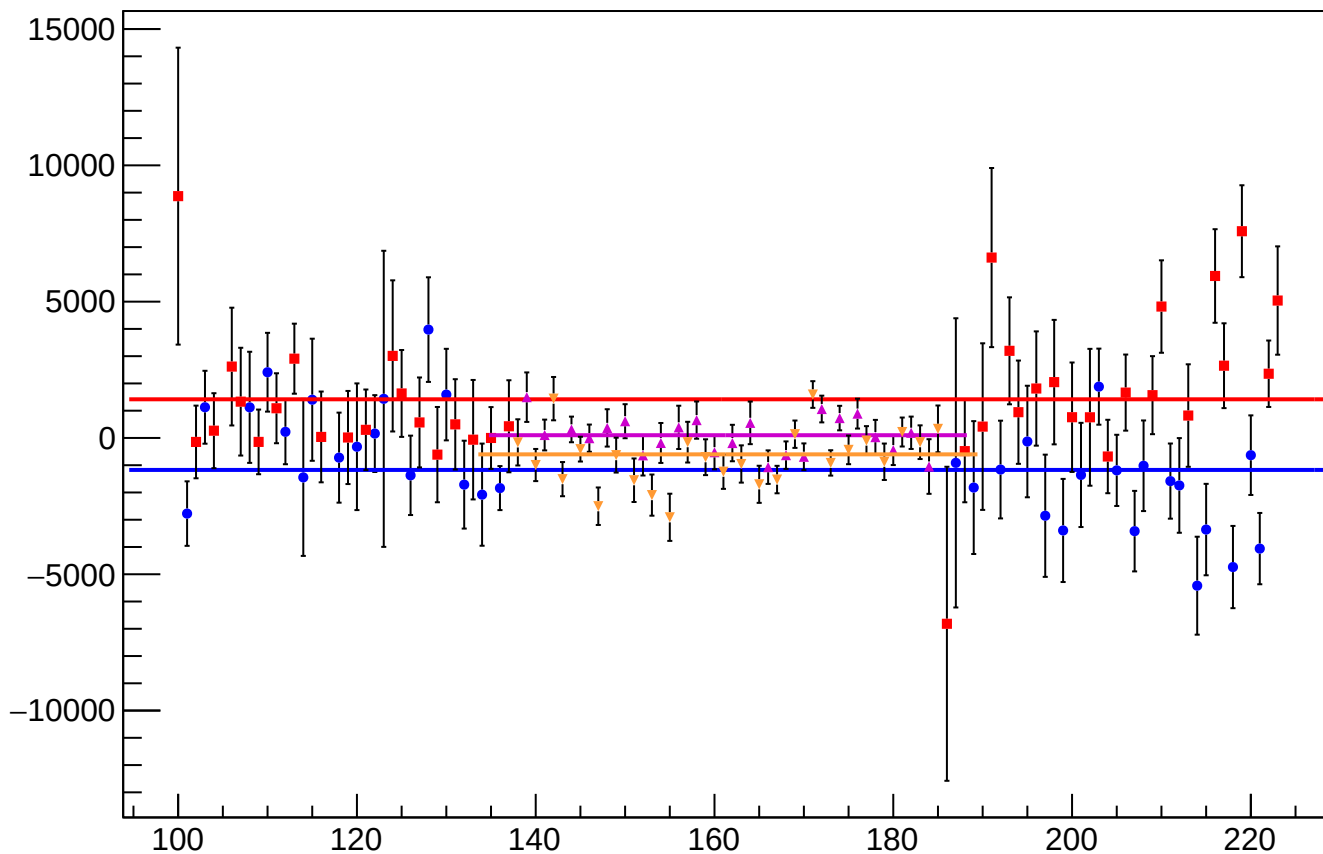
Right: 86.255 $\pm$ 0.010 χ^2 /NDF: 9932037.8/73

In: 70.732 $\pm$ 0.009 χ^2 /NDF: 6688452.3/57

Out: 70.226 $\pm$ 0.008 χ^2 /NDF: 7977192.5/63

All: 70.474 $\pm$ 0.006 χ^2 /NDF: 14667392.9/121

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -1173.126 ± 268.647 $\chi^2/\text{NDF}: 54.7/34$

Left Out: -601.486 ± 122.119 $\chi^2/\text{NDF}: 65.4/24$

Right Out: 1417.838 ± 270.218 $\chi^2/\text{NDF}: 52.3/38$

Left In: 100.548 ± 124.725 $\chi^2/\text{NDF}: 25.5/22$

Left: -257.880 ± 87.258 $\chi^2/\text{NDF}: 107.0/47$

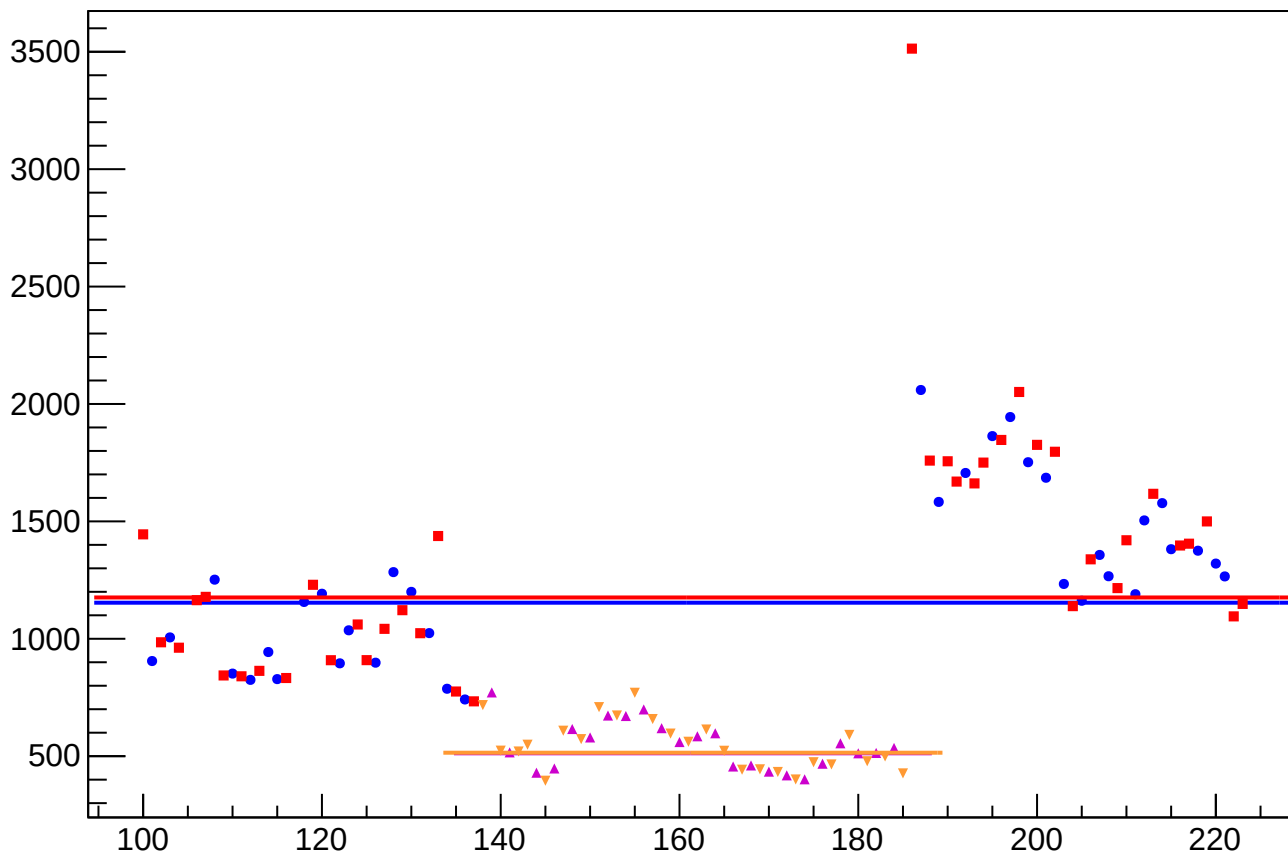
Right: 114.800 ± 190.515 $\chi^2/\text{NDF}: 153.2/73$

In: -125.307 ± 113.127 $\chi^2/\text{NDF}: 98.6/57$

Out: -259.011 ± 111.282 $\chi^2/\text{NDF}: 164.0/63$

All: -193.258 ± 79.333 $\chi^2/\text{NDF}: 263.4/121$

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1153.638 $\pm$ 0.190 χ^2 /NDF: 2685603.9/34

Left Out: 514.758 $\pm$ 0.086 χ^2 /NDF: 1194945.9/24

Right Out: 1175.927 $\pm$ 0.191 χ^2 /NDF: 3284051.6/38

Left In: 512.199 $\pm$ 0.088 χ^2 /NDF: 1041302.8/22

Left: 513.505 $\pm$ 0.062 χ^2 /NDF: 2236678.4/47

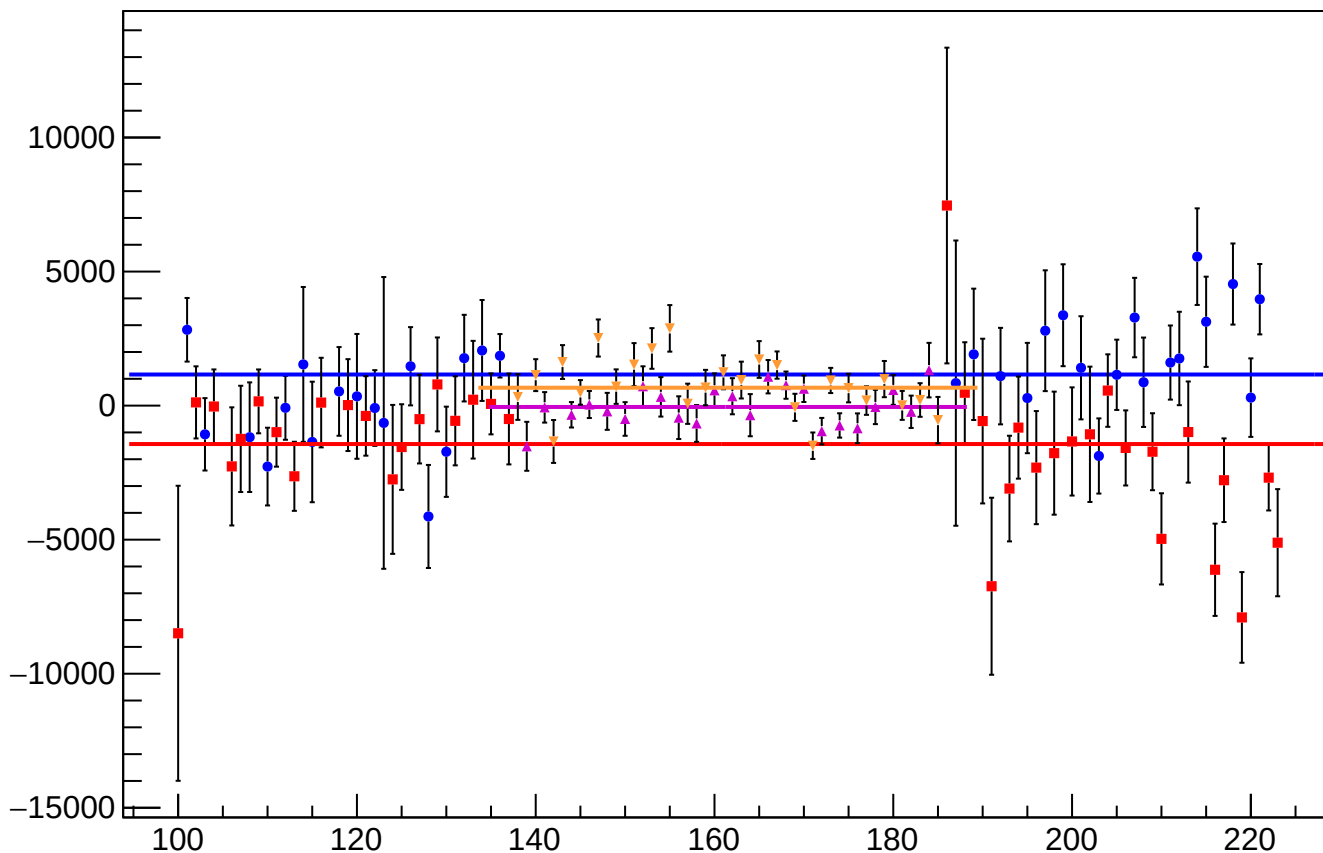
Right: 1164.717 $\pm$ 0.135 χ^2 /NDF: 5976499.1/73

In: 625.942 $\pm$ 0.080 χ^2 /NDF: 13106954.5/57

Out: 626.891 $\pm$ 0.079 χ^2 /NDF: 14421919.3/63

All: 626.424 $\pm$ 0.056 χ^2 /NDF: 27528945.3/120

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 1160.410 $\pm$ 269.619 χ^2 /NDF: 53.2/34

Left Out: 667.625 $\pm$ 123.146 χ^2 /NDF:61.5/24

Right Out: -1433.318 $\pm$ 271.301 χ^2 /NDF: 54.9/38

Left In: -50.079 $\pm$ 125.805 χ^2 /NDF:26.1/22

Left: 316.439 $\pm$ 88.002 χ^2 /NDF: 104.2/47

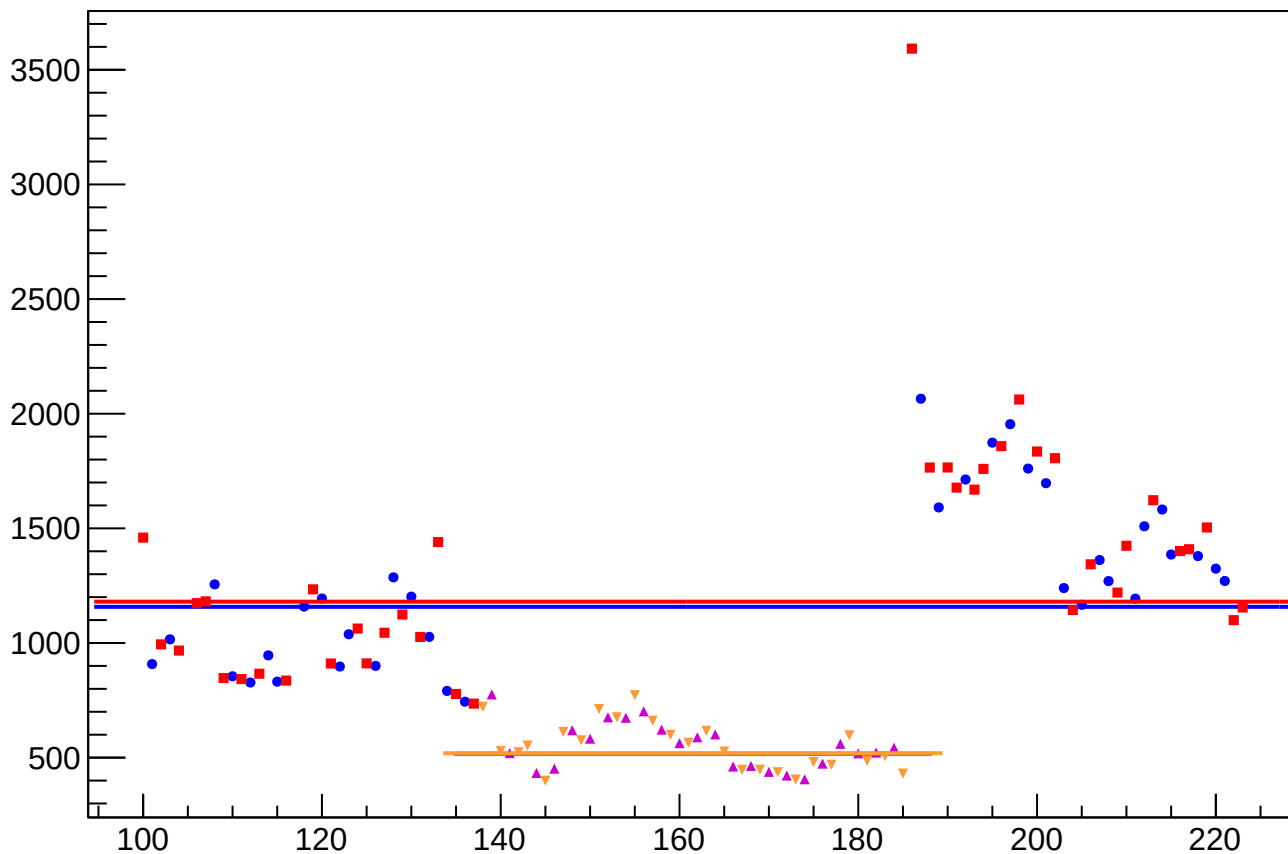
Right: -128.389 $\pm$ 191.241 χ^2 /NDF: 154.1/73

In: 166.346 $\pm$ 114.005 χ^2 /NDF:95.9/57

Out: 308.711 $\pm$ 112.135 χ^2 /NDF:166.1/63

All: 238.706 $\pm$ 79.944 χ^2 /NDF: 262.8/121

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1157.735 $\pm$ 0.191 χ^2 /NDF: 2691085.6/34

Left Out: 519.254 $\pm$ 0.087 χ^2 /NDF: 1172411.1/24

Right Out: 1180.241 $\pm$ 0.192 χ^2 /NDF: 3296745.9/38

Left In: 516.792 $\pm$ 0.089 χ^2 /NDF: 1021374.1/22

Left: 518.049 $\pm$ 0.062 χ^2 /NDF: 2194176.4/47

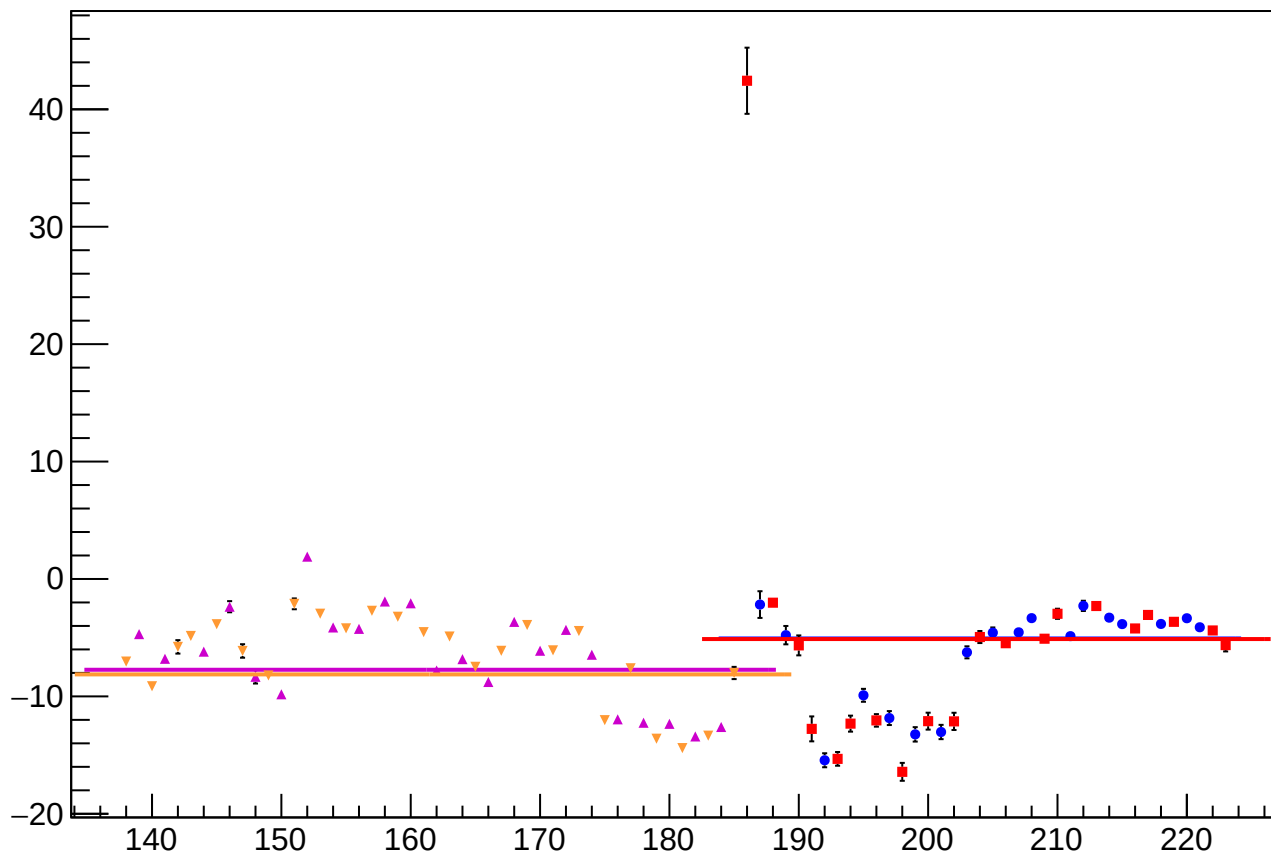
Right: 1168.918 $\pm$ 0.135 χ^2 /NDF: 5994756.4/73

In: 631.387 $\pm$ 0.081 χ^2 /NDF: 12994000.4/57

Out: 632.173 $\pm$ 0.079 χ^2 /NDF: 14312763.9/63

All: 631.787 $\pm$ 0.057 χ^2 /NDF: 27306812.8/120

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



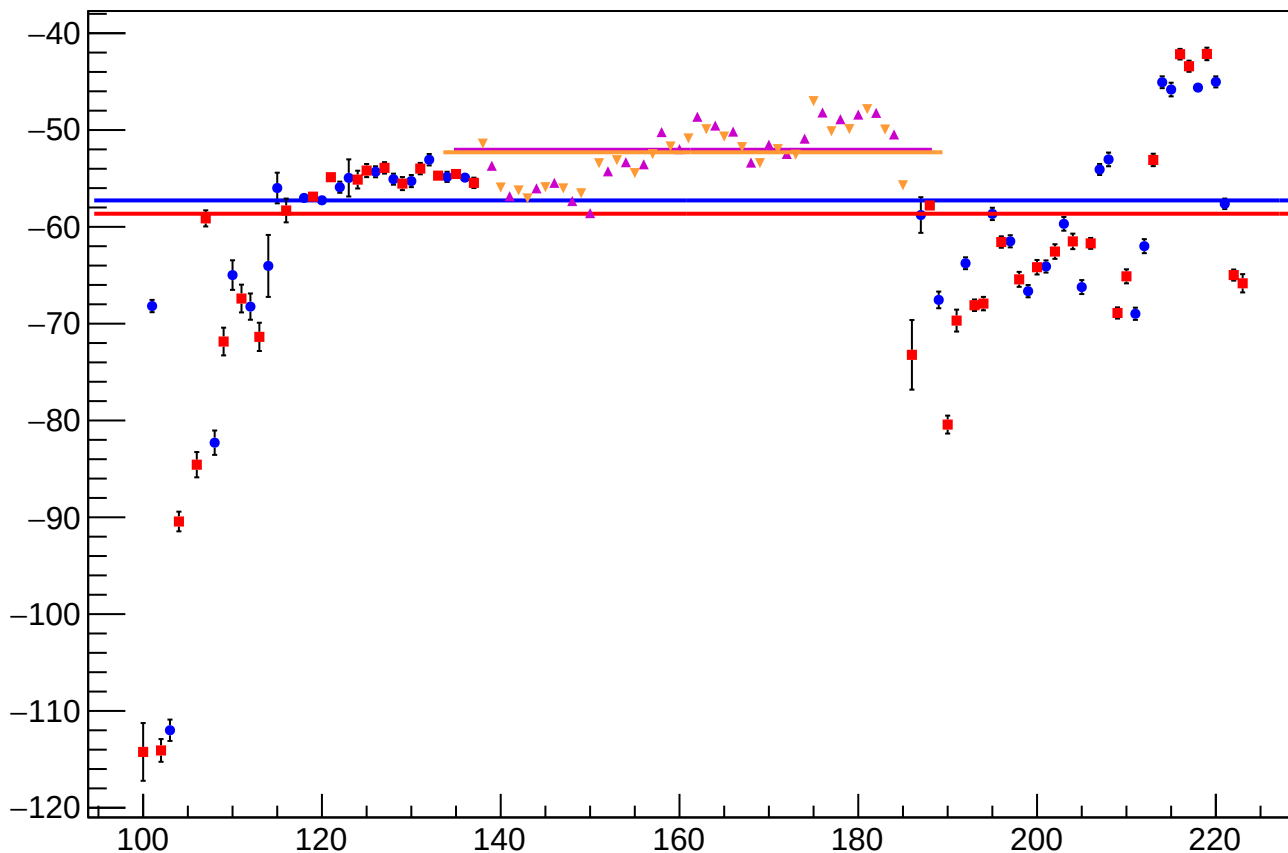
Right In: -5.070 ± 0.097 $\chi^2/\text{NDF}: 1043.8/17$
 Left Out: -8.127 ± 0.067 $\chi^2/\text{NDF}: 3635.5/24$
 Right Out: -5.116 ± 0.097 $\chi^2/\text{NDF}: 1600.5/19$
 Left In: -7.732 ± 0.069 $\chi^2/\text{NDF}: 3719.0/22$

Left: -7.934 ± 0.048 $\chi^2/\text{NDF}: 7371.4/47$
 Right: -5.093 ± 0.069 $\chi^2/\text{NDF}: 2644.4/37$

In: -6.837 ± 0.056 $\chi^2/\text{NDF}: 5265.5/40$
 Out: -7.153 ± 0.055 $\chi^2/\text{NDF}: 5882.2/44$

All: -6.997 ± 0.039 $\chi^2/\text{NDF}: 11163.6/85$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.271 $\pm$ 0.104 χ^2 /NDF: 6446.2/34

Left Out: -52.297 $\pm$ 0.055 χ^2 /NDF: 2657.5/24

Right Out: -58.645 $\pm$ 0.104 χ^2 /NDF: 8972.5/38

Left In: -52.038 $\pm$ 0.057 χ^2 /NDF: 3180.4/22

Left: -52.172 $\pm$ 0.040 χ^2 /NDF: 5848.6/47

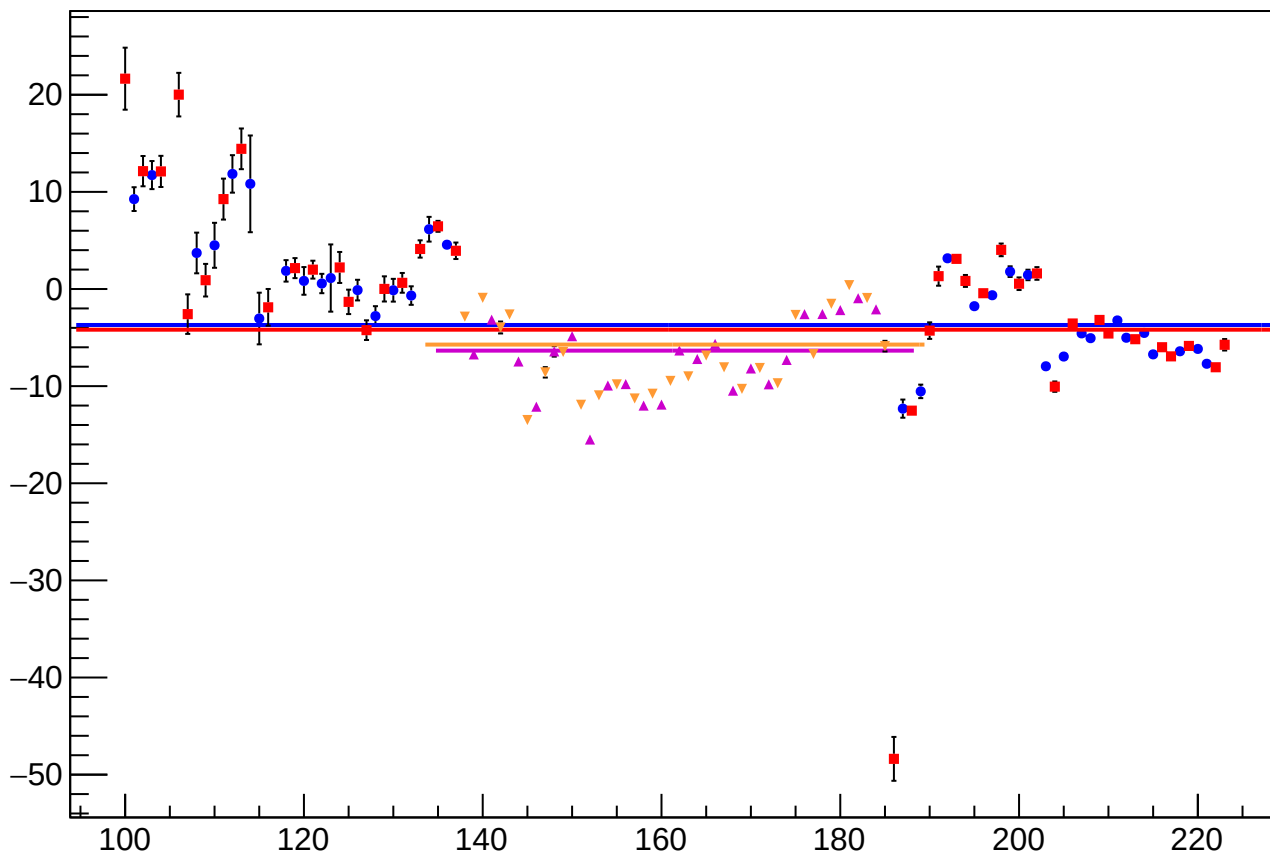
Right: -57.960 $\pm$ 0.074 χ^2 /NDF: 15505.8/73

In: -53.248 $\pm$ 0.050 χ^2 /NDF: 11565.7/57

Out: -53.689 $\pm$ 0.049 χ^2 /NDF: 14545.9/63

All: -53.475 $\pm$ 0.035 χ^2 /NDF: 26151.6/121

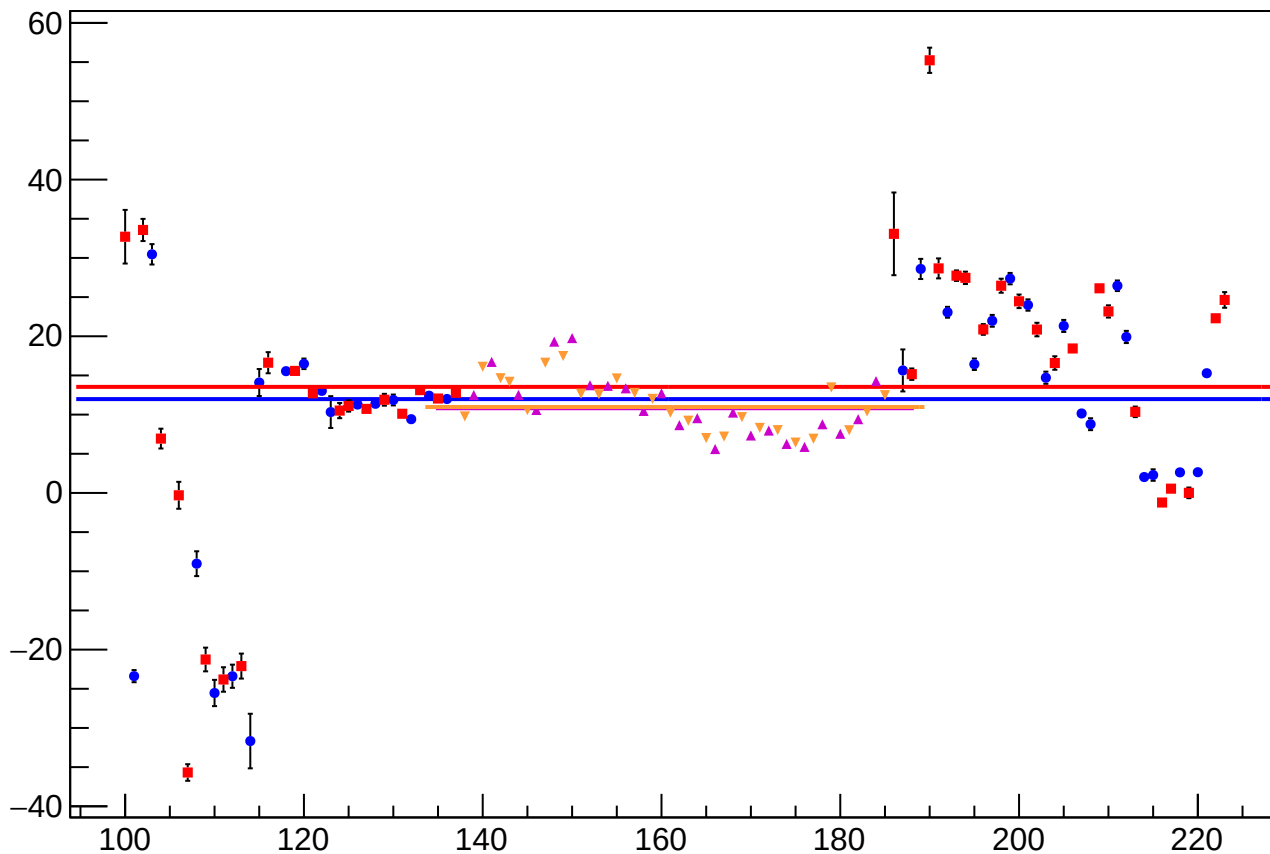
reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.704 ± 0.092 χ^2/NDF : 1975.2/34
 Left Out: -5.722 ± 0.068 χ^2/NDF : 3983.0/24
 Right Out: -4.188 ± 0.092 χ^2/NDF : 3551.1/38
 Left In: -6.344 ± 0.069 χ^2/NDF : 3383.7/22

Left: -6.028 ± 0.048 χ^2/NDF : 7408.5/47
 Right: -3.946 ± 0.065 χ^2/NDF : 5540.1/73
 In: -5.404 ± 0.055 χ^2/NDF : 5886.1/57
 Out: -5.185 ± 0.054 χ^2/NDF : 7714.5/63
 All: -5.293 ± 0.039 χ^2/NDF : 13608.6/121

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.979 $\pm$ 0.115 χ^2 /NDF: 6956.8/34

Left Out: 10.967 $\pm$ 0.061 χ^2 /NDF: 2637.7/24

Right Out: 13.539 $\pm$ 0.116 χ^2 /NDF: 8885.2/38

Left In: 10.813 $\pm$ 0.063 χ^2 /NDF: 3546.8/22

Left: 10.892 $\pm$ 0.044 χ^2 /NDF: 6187.5/47

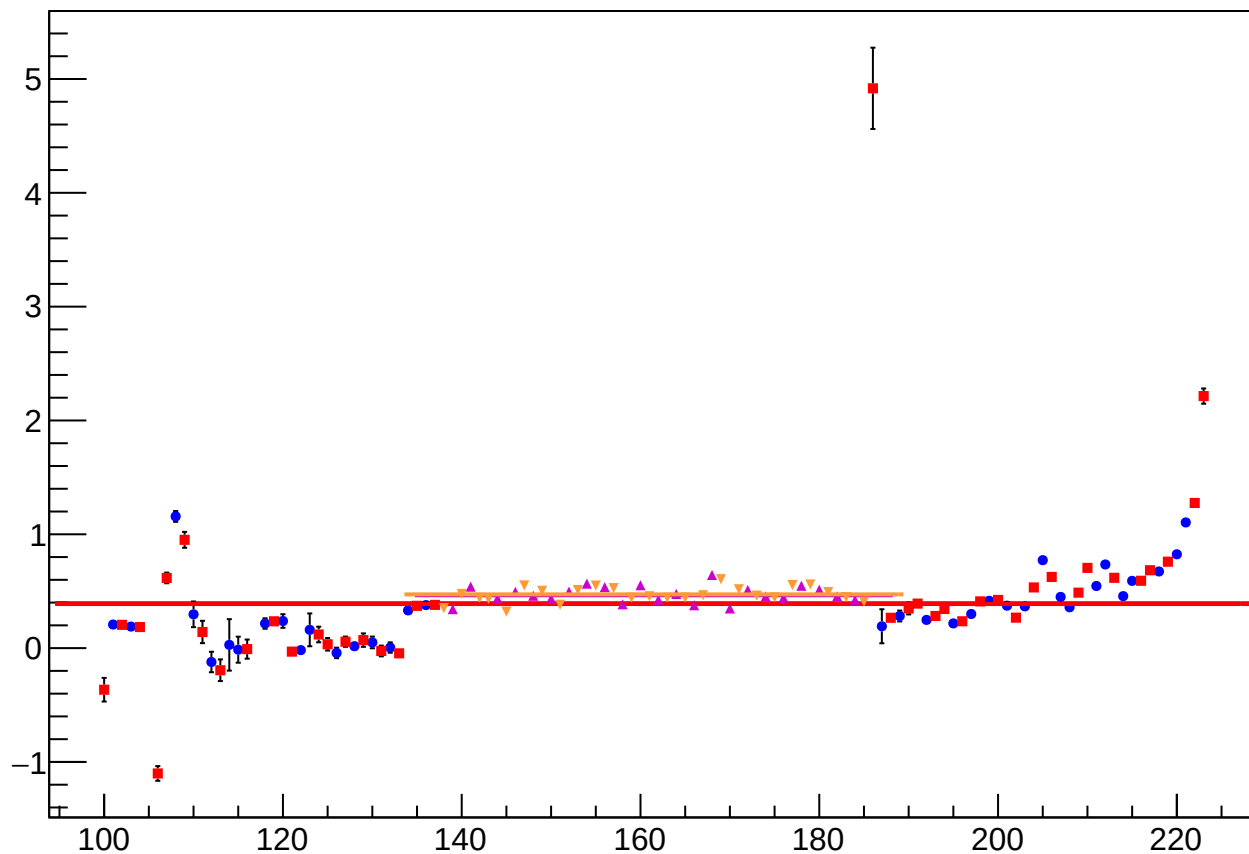
Right: 12.749 $\pm$ 0.082 χ^2 /NDF: 15933.2/73

In: 11.084 $\pm$ 0.055 χ^2 /NDF: 10582.8/57

Out: 11.528 $\pm$ 0.054 χ^2 /NDF: 11905.9/63

All: 11.310 $\pm$ 0.039 χ^2 /NDF: 22521.5/121

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.393 $\pm$ 0.005 χ^2 /NDF: 1837.2/34

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.387 $\pm$ 0.005 χ^2 /NDF: 3356.9/38

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

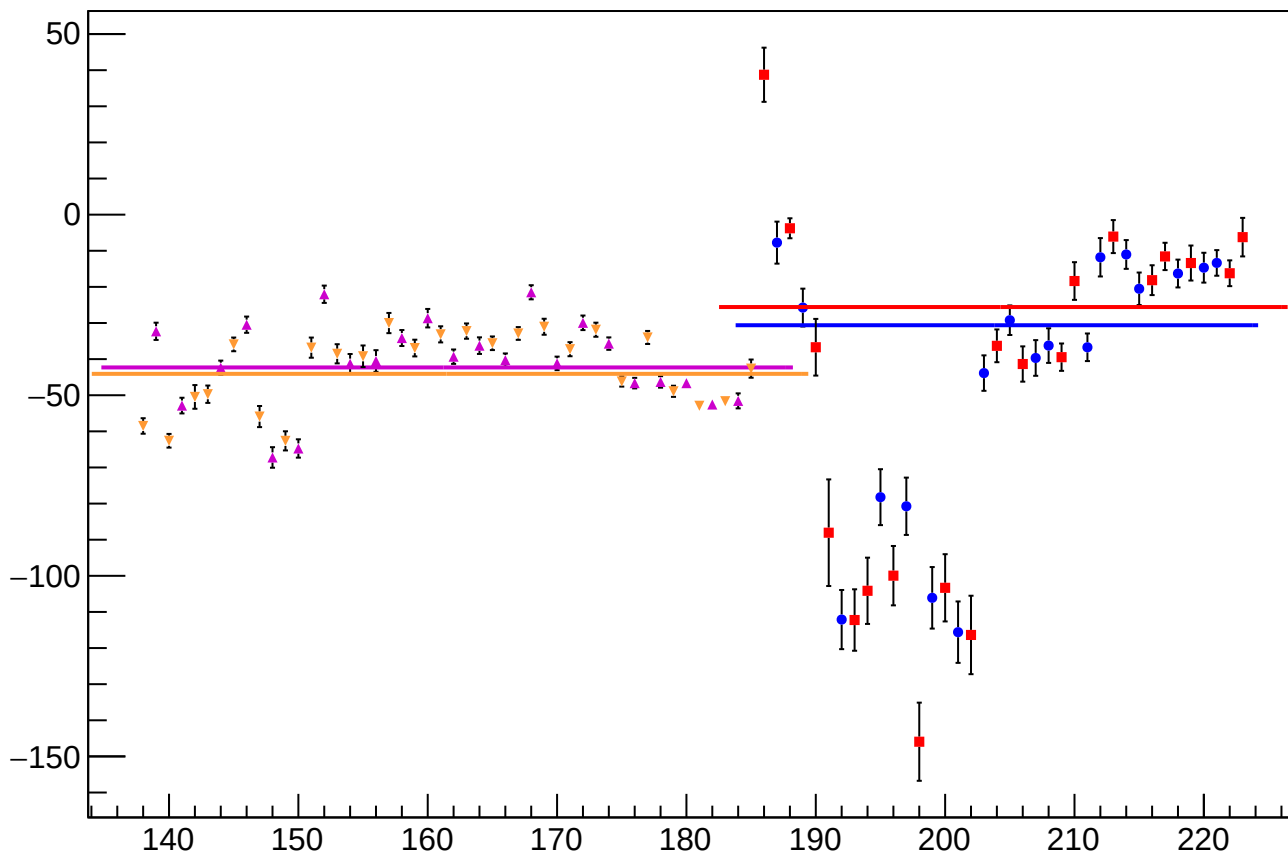
Right: 0.390 $\pm$ 0.004 χ^2 /NDF: 5194.7/73

In: 0.448 $\pm$ 0.002 χ^2 /NDF: 2715.3/57

Out: 0.454 $\pm$ 0.002 χ^2 /NDF: 4078.8/63

All: 0.451 $\pm$ 0.002 χ^2 /NDF: 6796.7/121

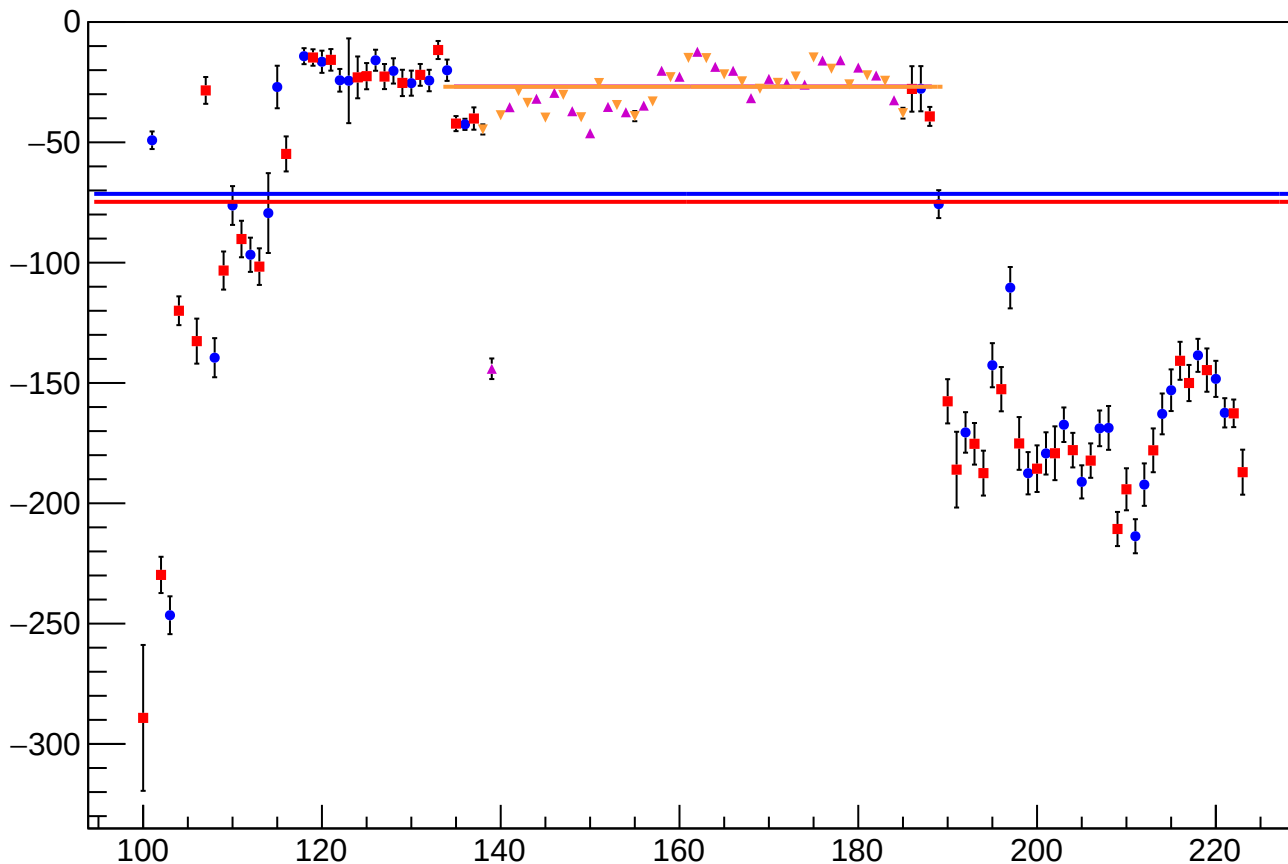
reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.617 ± 1.156 $\chi^2/\text{NDF}: 480.3/17$
 Left Out: -44.077 ± 0.389 $\chi^2/\text{NDF}: 632.6/24$
 Right Out: -25.581 ± 1.141 $\chi^2/\text{NDF}: 770.9/19$
 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: -28.067 ± 0.812 $\chi^2/\text{NDF}: 1260.8/37$
 In: -41.059 ± 0.377 $\chi^2/\text{NDF}: 1212.2/40$
 Out: -42.155 ± 0.368 $\chi^2/\text{NDF}: 1639.0/44$
 All: -41.621 ± 0.263 $\chi^2/\text{NDF}: 2855.5/85$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -71.416 ± 0.971 $\chi^2/\text{NDF}: 4479.8/34$

Left Out: -26.902 ± 0.316 $\chi^2/\text{NDF}: 631.0/24$

Right Out: -74.726 ± 0.996 $\chi^2/\text{NDF}: 4665.0/38$

Left In: -26.774 ± 0.326 $\chi^2/\text{NDF}: 1394.5/22$

Left: -26.840 ± 0.227 $\chi^2/\text{NDF}: 2025.6/47$

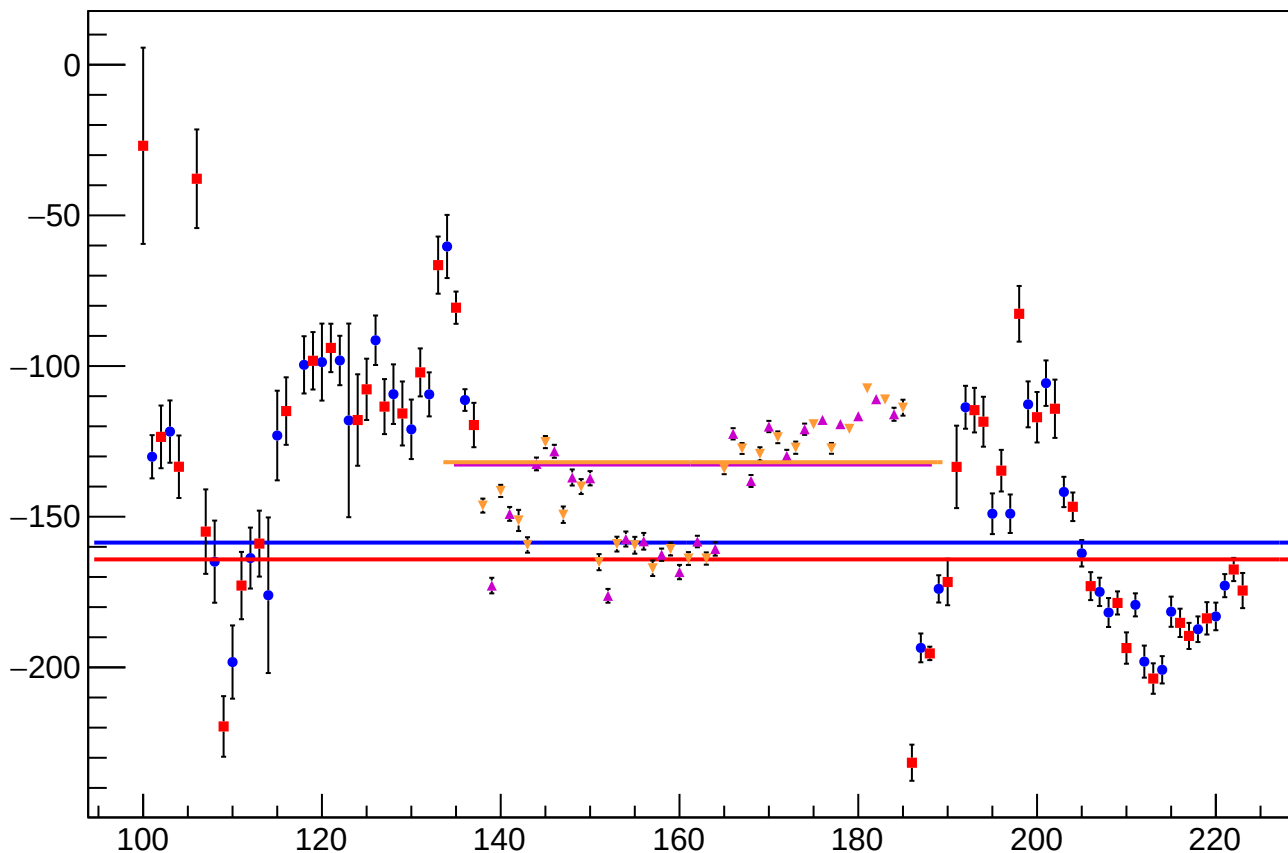
Right: -73.030 ± 0.695 $\chi^2/\text{NDF}: 9150.5/73$

In: -31.302 ± 0.309 $\chi^2/\text{NDF}: 7772.6/57$

Out: -31.282 ± 0.301 $\chi^2/\text{NDF}: 7390.1/63$

All: -31.291 ± 0.216 $\chi^2/\text{NDF}: 15162.7/121$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -158.590 ± 1.017 $\chi^2/\text{NDF}: 1096.7/34$

Left Out: -131.912 ± 0.391 $\chi^2/\text{NDF}: 2439.3/24$

Right Out: -164.162 ± 0.995 $\chi^2/\text{NDF}: 1569.7/38$

Left In: -132.690 ± 0.399 $\chi^2/\text{NDF}: 2480.2/22$

Left: -132.293 ± 0.280 $\chi^2/\text{NDF}: 4921.5/47$

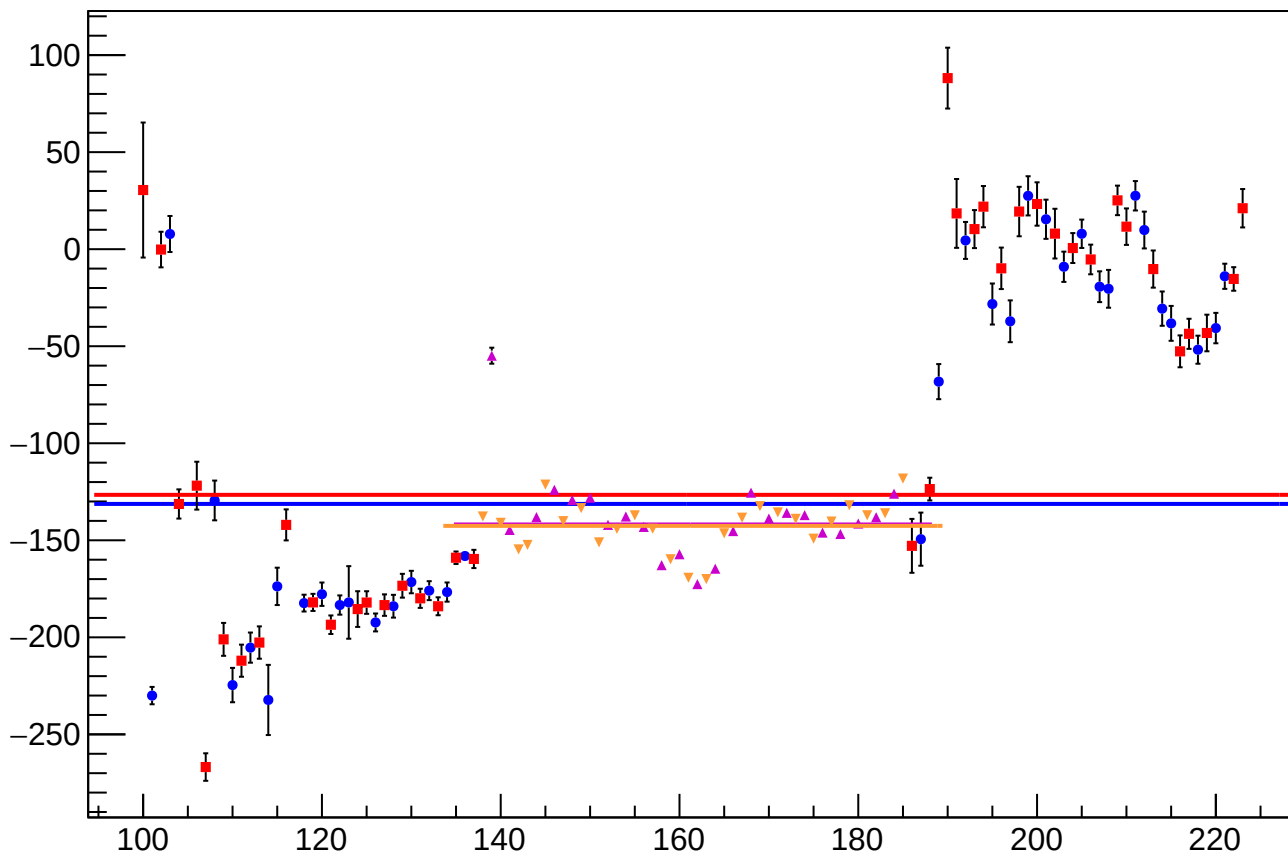
Right: -161.437 ± 0.711 $\chi^2/\text{NDF}: 2681.8/73$

In: -136.152 ± 0.372 $\chi^2/\text{NDF}: 4139.0/57$

Out: -136.237 ± 0.364 $\chi^2/\text{NDF}: 4919.1/63$

All: -136.195 ± 0.260 $\chi^2/\text{NDF}: 9058.1/121$

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -131.260 ± 1.083 χ^2/NDF : 5187.8/34

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -126.579 ± 1.129 χ^2/NDF : 5253.7/38

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

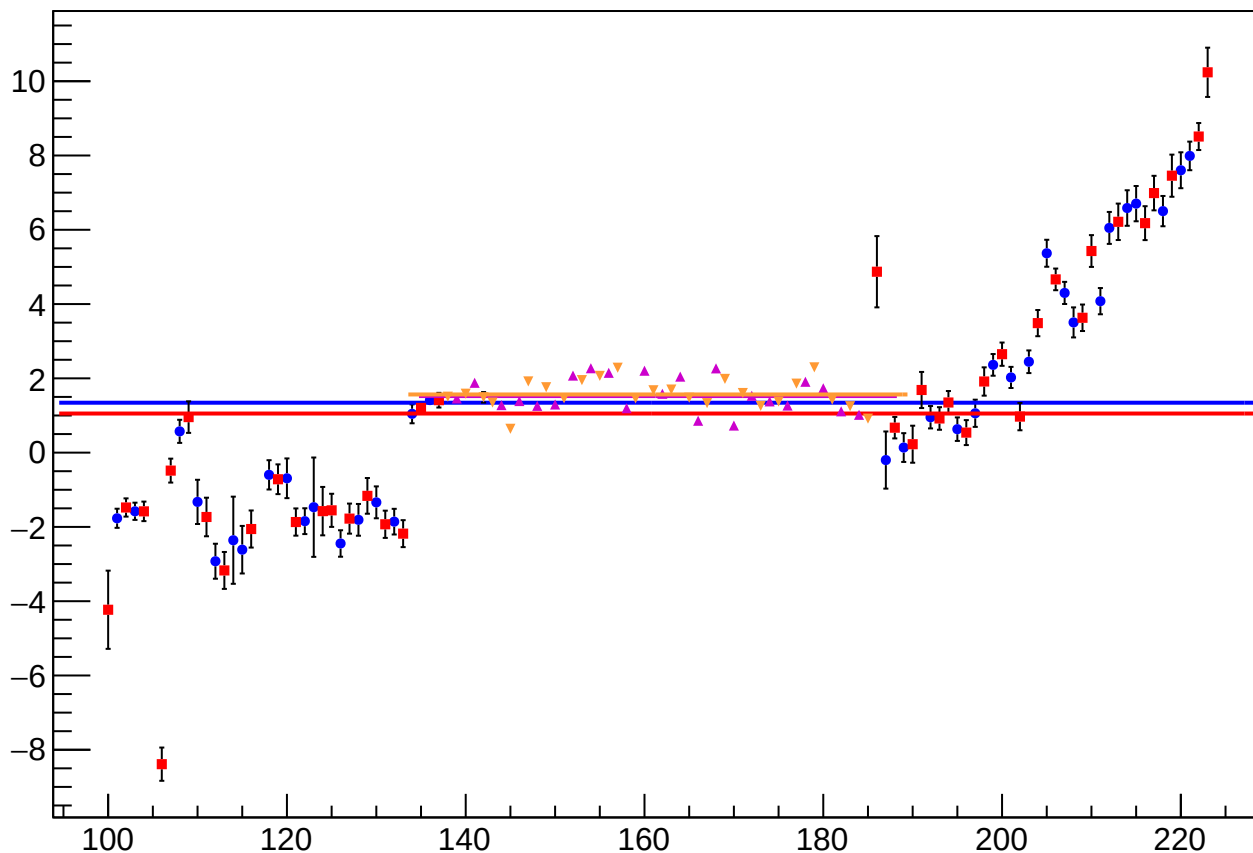
Right: -129.015 ± 0.782 χ^2/NDF : 10450.5/73

In: -140.783 ± 0.345 χ^2/NDF : 6818.0/57

Out: -141.132 ± 0.338 χ^2/NDF : 6584.0/63

All: -140.961 ± 0.241 χ^2/NDF : 13402.6/121

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 1.344 ± 0.053 $\chi^2/\text{NDF}: 2237.5/34$

Left Out: 1.566 ± 0.016 $\chi^2/\text{NDF}: 542.8/24$

Right Out: 1.053 ± 0.055 $\chi^2/\text{NDF}: 2747.6/38$

Left In: 1.523 ± 0.017 $\chi^2/\text{NDF}: 738.5/22$

Left: 1.545 ± 0.012 $\chi^2/\text{NDF}: 1284.8/47$

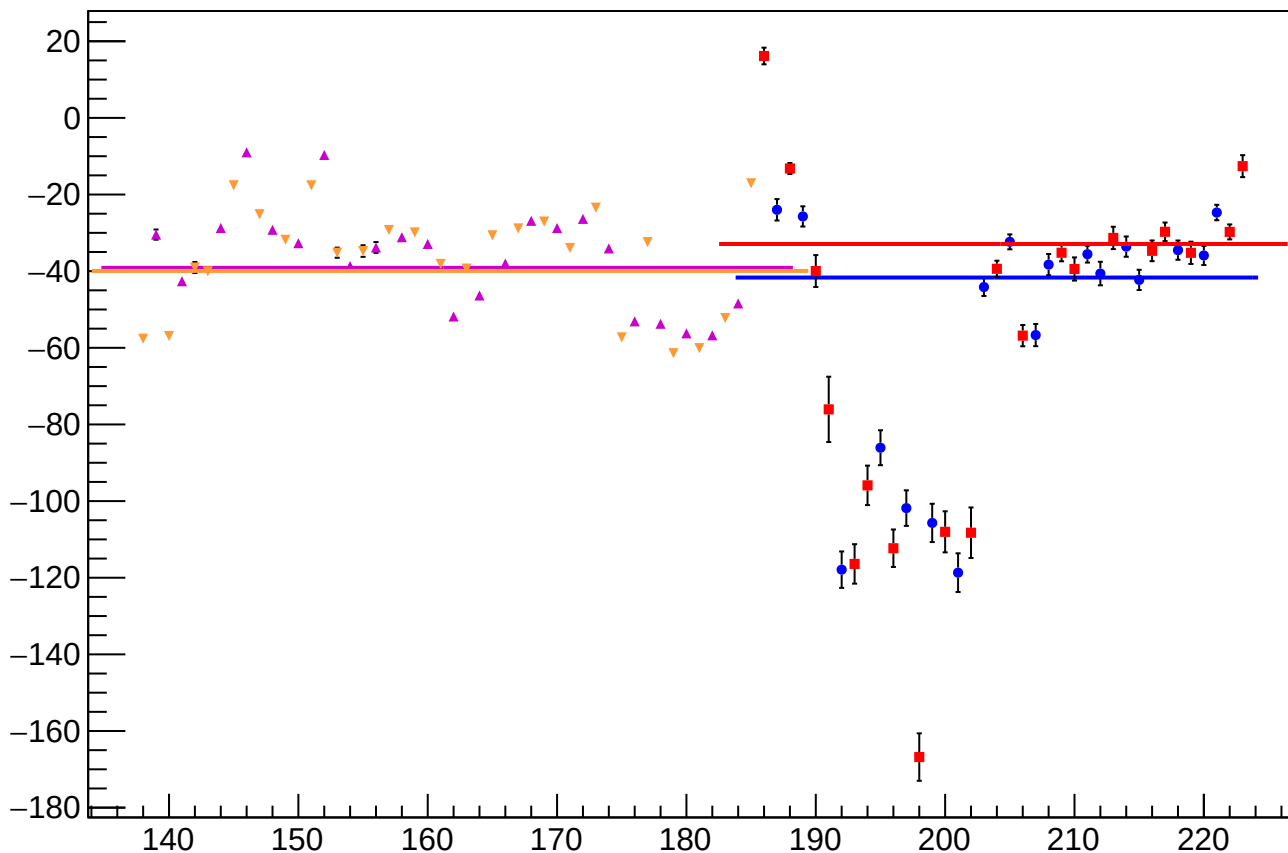
Right: 1.204 ± 0.038 $\chi^2/\text{NDF}: 4999.7/73$

In: 1.507 ± 0.016 $\chi^2/\text{NDF}: 2986.4/57$

Out: 1.525 ± 0.016 $\chi^2/\text{NDF}: 3370.8/63$

All: 1.516 ± 0.011 $\chi^2/\text{NDF}: 6357.9/121$

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -41.663 ± 0.652 $\chi^2/\text{NDF}: 1147.3/17$
 Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$
 Right Out: -32.903 ± 0.625 $\chi^2/\text{NDF}: 2341.2/19$
 Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

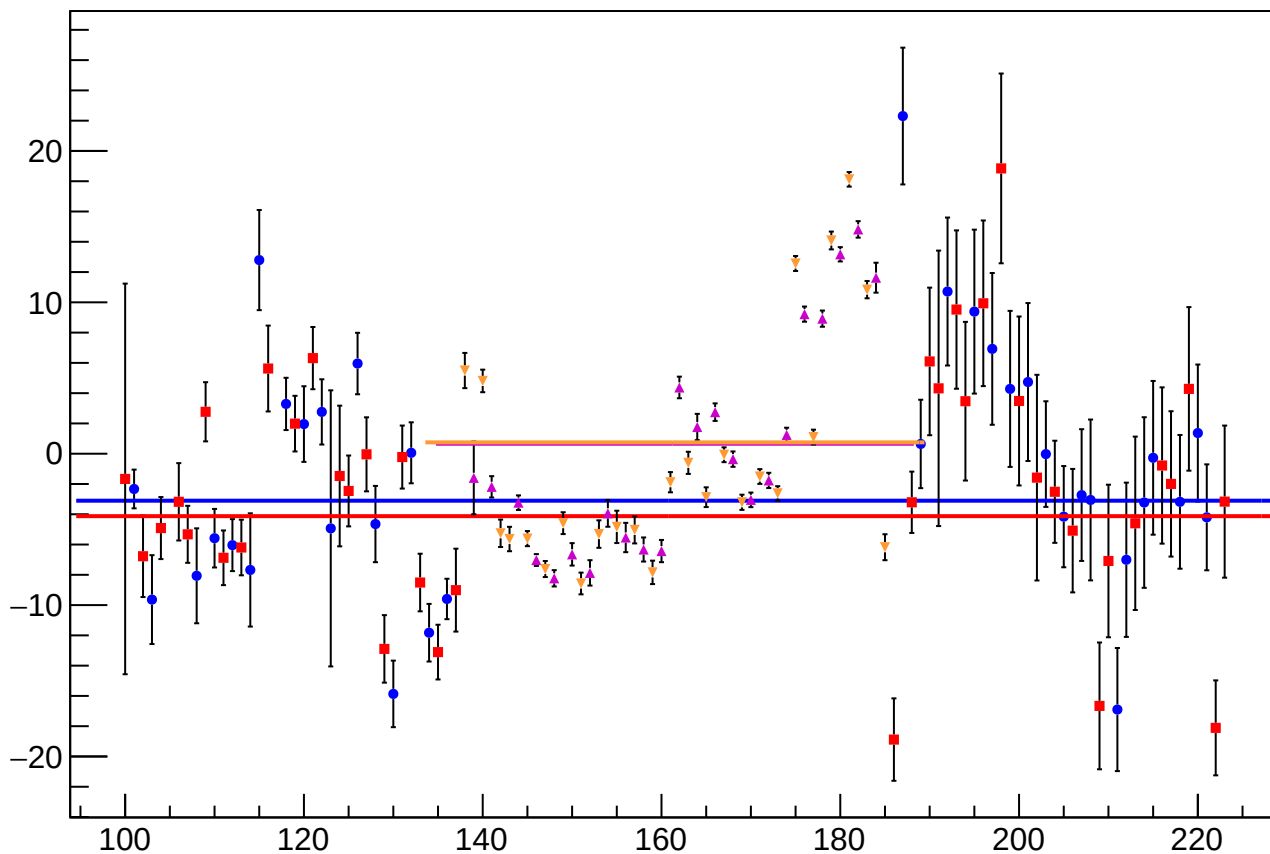
Right: -37.099 ± 0.451 $\chi^2/\text{NDF}: 3582.5/37$

In: -39.272 ± 0.150 $\chi^2/\text{NDF}: 9696.0/40$

Out: -39.537 ± 0.149 $\chi^2/\text{NDF}: 12267.0/44$

All: -39.406 ± 0.106 $\chi^2/\text{NDF}: 21964.6/85$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.104 ± 0.448 χ^2/NDF : 232.6/34

Left Out: 0.749 ± 0.124 χ^2/NDF : 3970.9/24

Right Out: -4.125 ± 0.446 χ^2/NDF : 220.5/38

Left In: 0.660 ± 0.124 χ^2/NDF : 3337.8/22

Left: 0.705 ± 0.088 χ^2/NDF : 7308.9/47

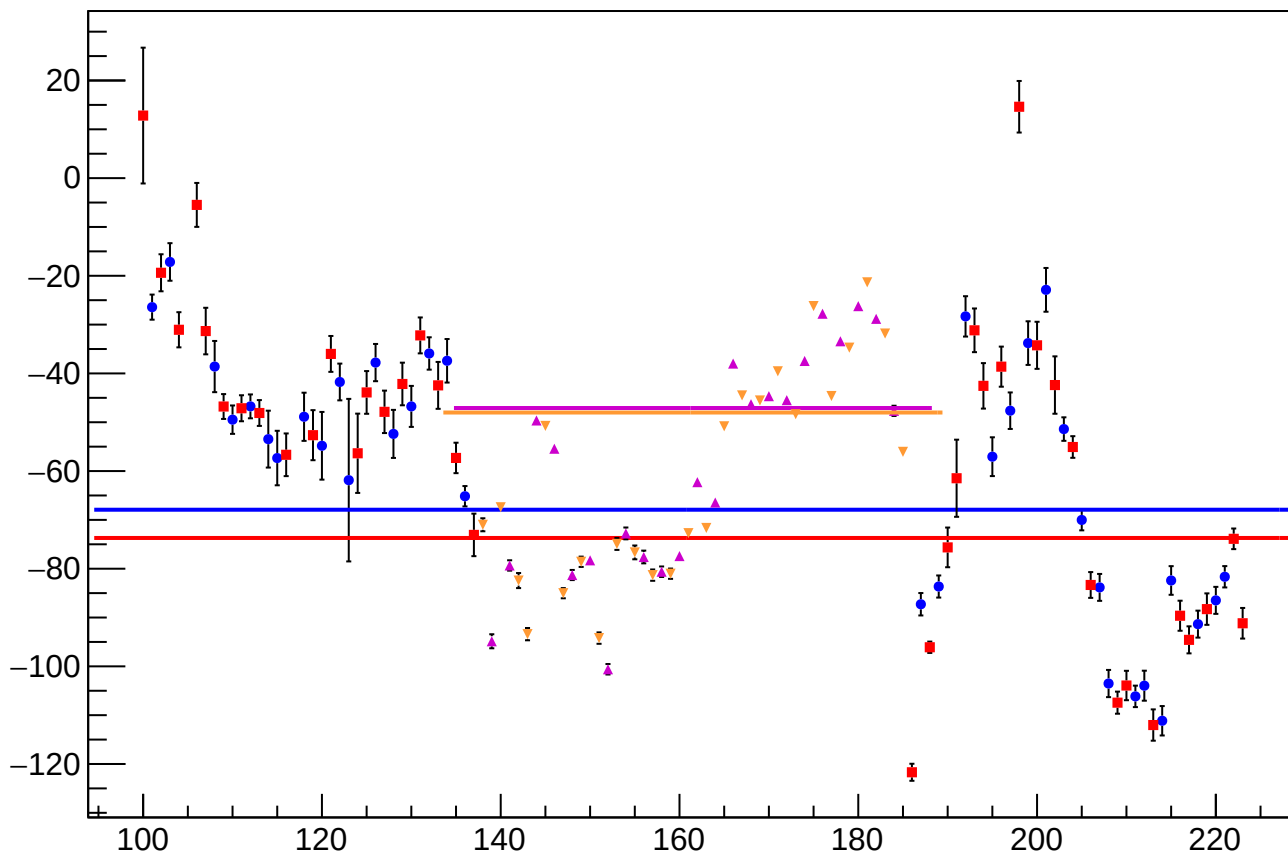
Right: -3.617 ± 0.316 χ^2/NDF : 455.7/73

In: 0.391 ± 0.120 χ^2/NDF : 3635.9/57

Out: 0.398 ± 0.120 χ^2/NDF : 4302.3/63

All: 0.395 ± 0.085 χ^2/NDF : 7938.2/121

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -67.918 ± 0.526 $\chi^2/\text{NDF}: 2376.3/34$

Left Out: -48.008 ± 0.155 $\chi^2/\text{NDF}: 16950.0/24$

Right Out: -73.703 ± 0.493 $\chi^2/\text{NDF}: 3870.9/38$

Left In: -47.085 ± 0.155 $\chi^2/\text{NDF}: 15515.2/22$

Left: -47.548 ± 0.110 $\chi^2/\text{NDF}: 32482.9/47$

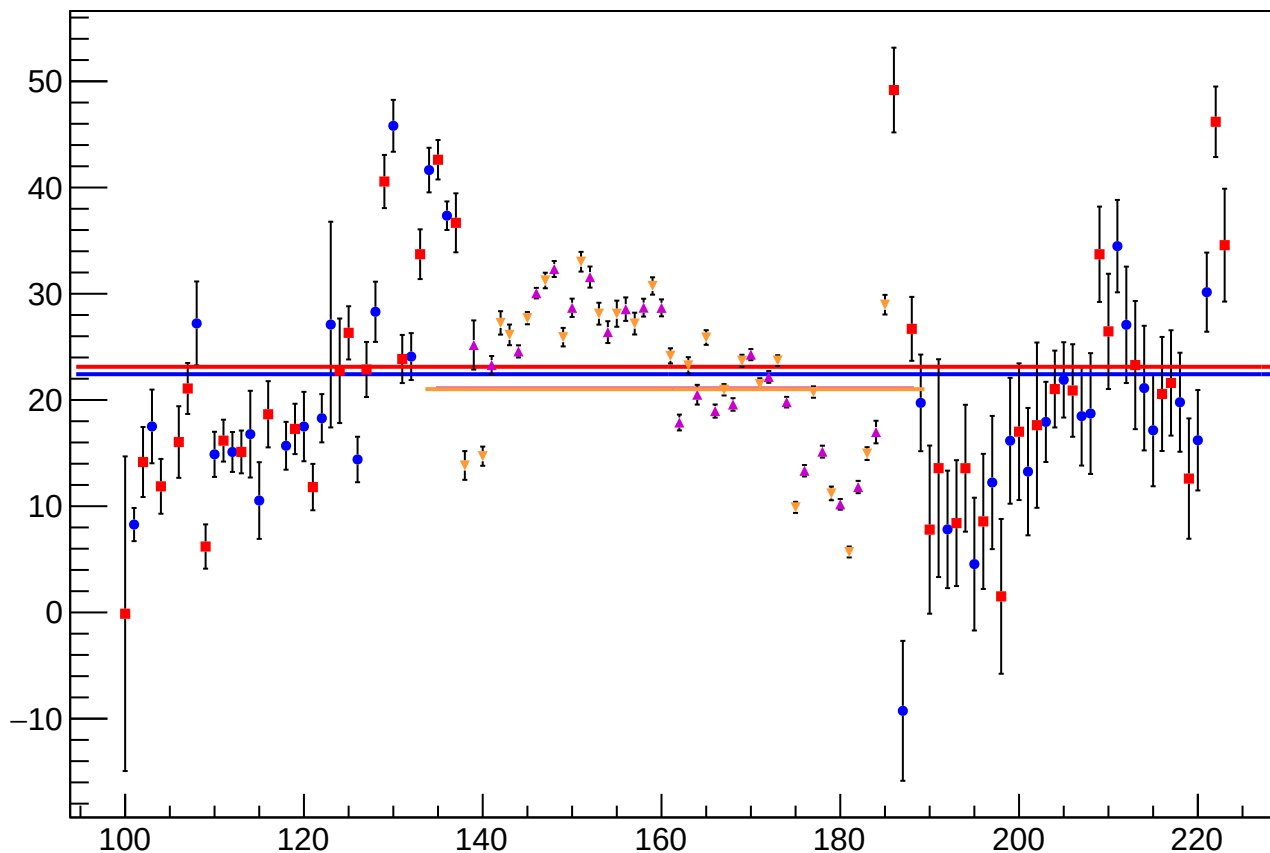
Right: -70.995 ± 0.360 $\chi^2/\text{NDF}: 6311.7/73$

In: -48.759 ± 0.149 $\chi^2/\text{NDF}: 19336.4/57$

Out: -50.310 ± 0.148 $\chi^2/\text{NDF}: 23293.5/63$

All: -49.541 ± 0.105 $\chi^2/\text{NDF}: 42684.6/121$

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.426 $\pm$ 0.504 χ^2 /NDF: 521.9/34

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 23.124 $\pm$ 0.509 χ^2 /NDF: 504.3/38

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

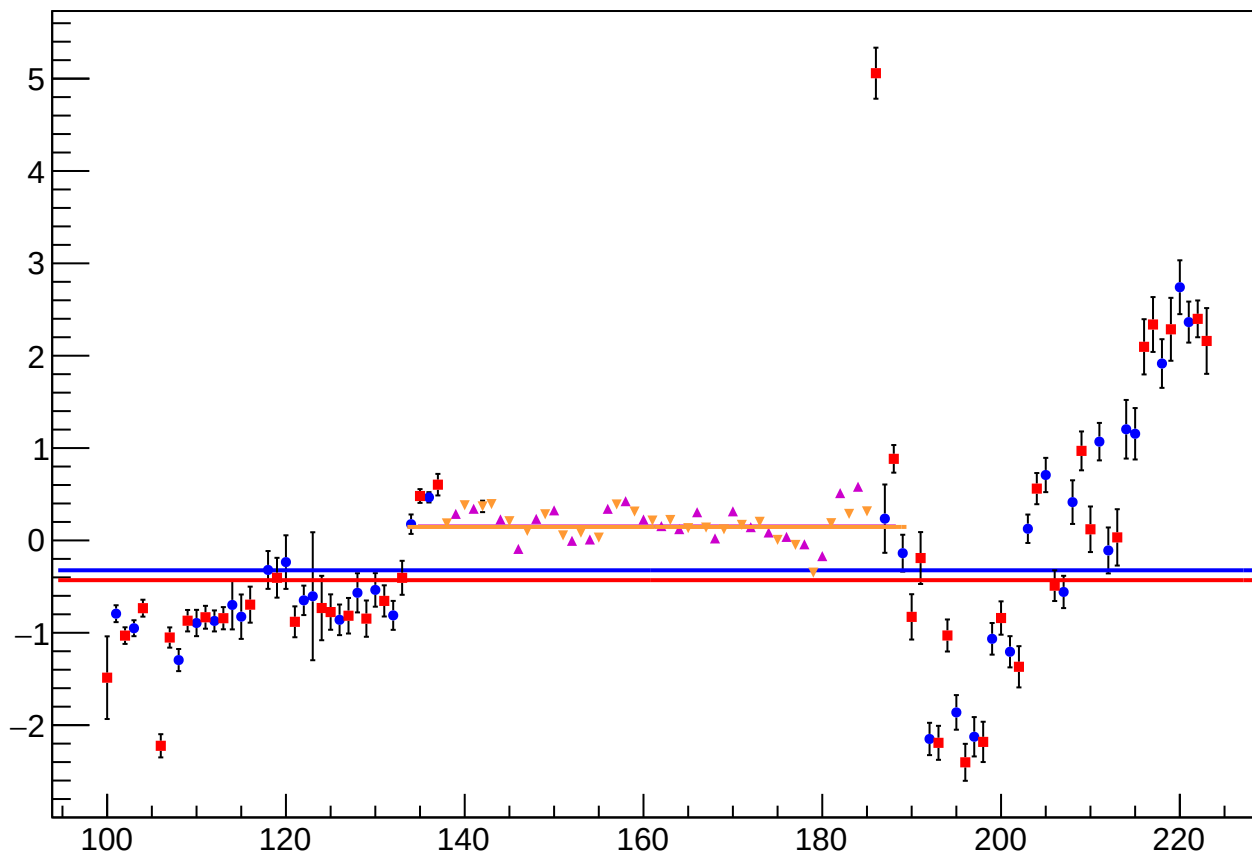
Right: 22.771 $\pm$ 0.358 χ^2 /NDF: 1027.2/73

In: 21.175 $\pm$ 0.135 χ^2 /NDF:2701.8/57

Out: 21.165 $\pm$ 0.134 χ^2 /NDF:3319.5/63

All: 21.170 $\pm$ 0.095 χ^2 /NDF: 6021.2/121

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.323 ± 0.026 χ^2/NDF : 1217.4/34

Left Out: 0.146 ± 0.006 χ^2/NDF : 610.2/24

Right Out: -0.430 ± 0.026 χ^2/NDF : 1910.1/38

Left In: 0.151 ± 0.006 χ^2/NDF : 869.5/22

Left: 0.149 ± 0.005 χ^2/NDF : 1480.1/47

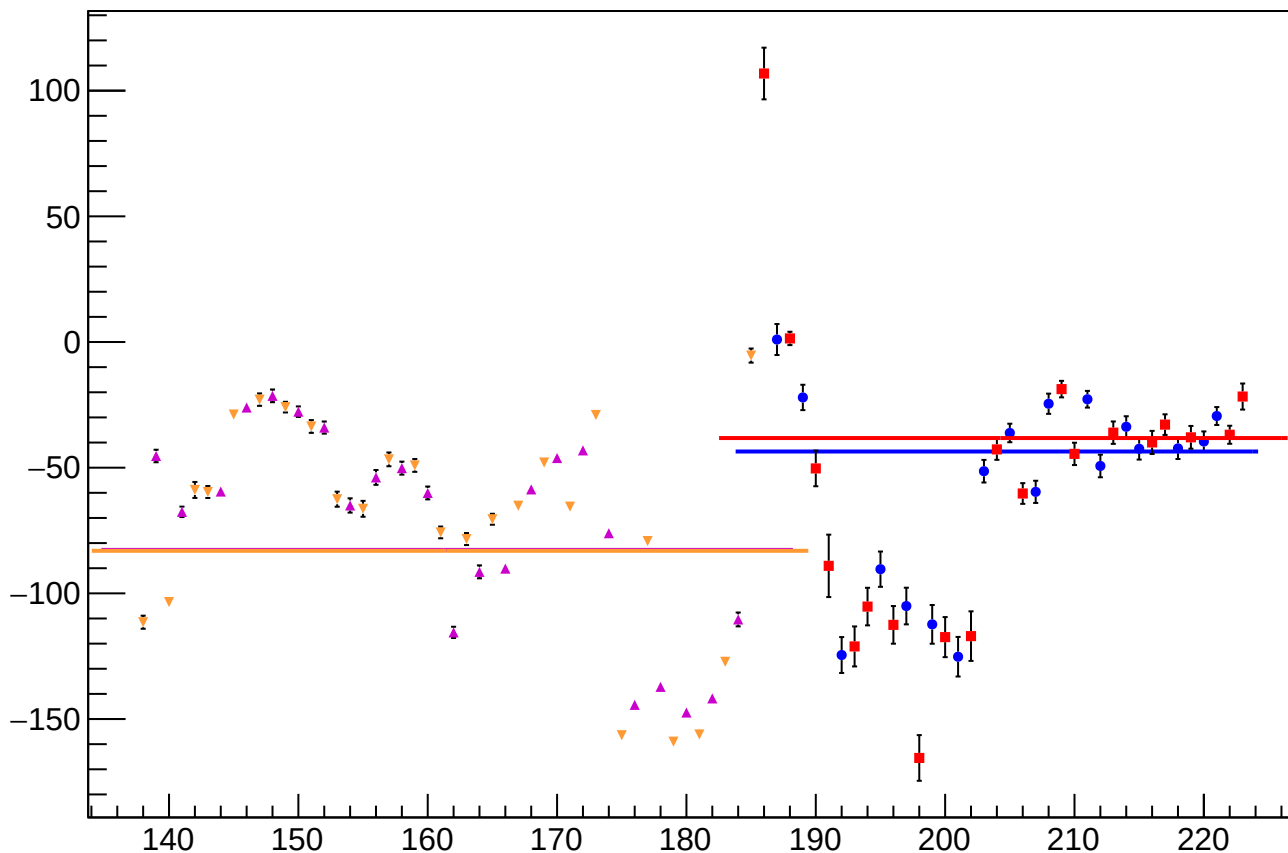
Right: -0.377 ± 0.018 χ^2/NDF : 3136.2/73

In: 0.123 ± 0.006 χ^2/NDF : 2408.5/57

Out: 0.113 ± 0.006 χ^2/NDF : 2997.8/63

All: 0.118 ± 0.004 χ^2/NDF : 5407.7/121

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -43.564+/-1.090 χ^2/NDF : 607.5/17

Left Out: -83.068+/-0.406 χ^2/NDF :13817.3/24

Right Out: -38.210+/-1.085 χ^2/NDF : 1167.5/19

Left In: -82.711+/-0.415 χ^2/NDF :10841.4/22

Left: -82.893+/-0.290 χ^2/NDF : 24659.1/47

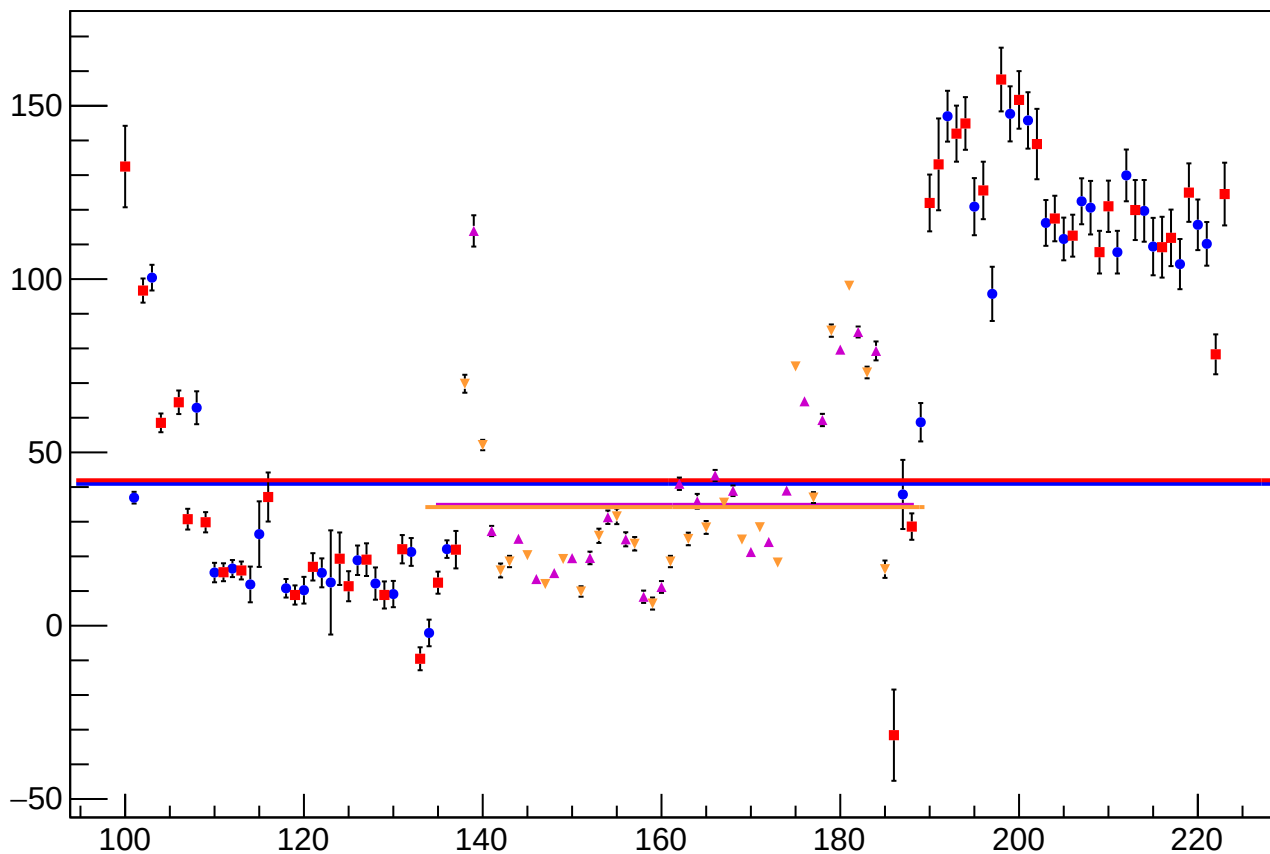
Right: -40.874+/-0.769 χ^2/NDF : 1787.1/37

In: -77.756+/-0.388 χ^2/NDF :12574.5/40

Out: -77.552+/-0.381 χ^2/NDF :16483.4/44

All: -77.652+/-0.272 χ^2/NDF : 29058.1/85

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 40.941 $\pm$ 0.729 χ^2 /NDF: 3009.7/34

Left Out: 34.219 $\pm$ 0.320 χ^2 /NDF:6192.6/24

Right Out: 41.957 $\pm$ 0.727 χ^2 /NDF: 3306.9/38

Left In: 34.870 $\pm$ 0.329 χ^2 /NDF:4716.1/22

Left: 34.535 $\pm$ 0.230 χ^2 /NDF: 10910.7/47

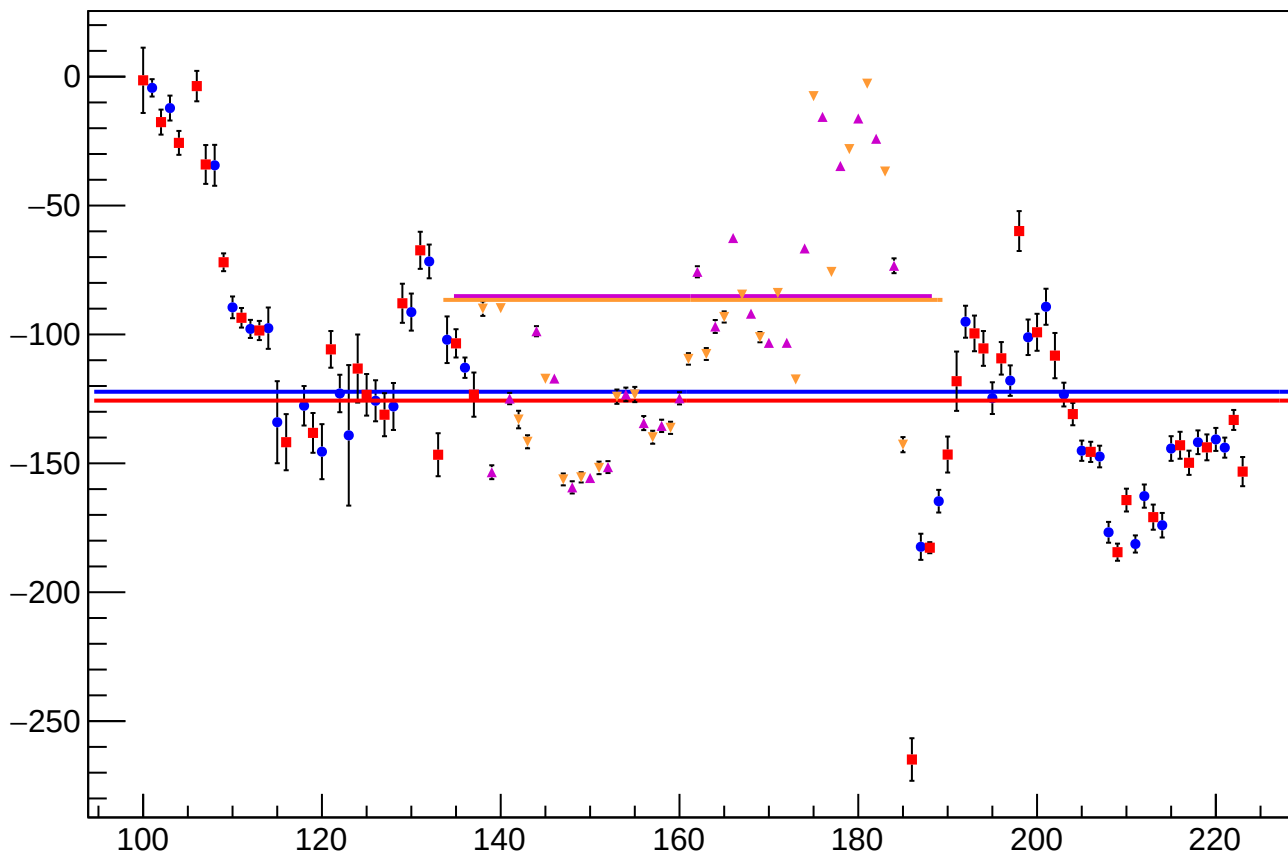
Right: 41.451 $\pm$ 0.515 χ^2 /NDF: 6317.5/73

In: 35.897 $\pm$ 0.300 χ^2 /NDF:7783.4/57

Out: 35.477 $\pm$ 0.293 χ^2 /NDF:9594.4/63

All: 35.682 $\pm$ 0.210 χ^2 /NDF: 17378.8/121

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -122.227 ± 0.867 $\chi^2/\text{NDF}: 3217.4/34$

Left Out: -86.595 ± 0.408 $\chi^2/\text{NDF}: 14515.7/24$

Right Out: -125.668 ± 0.832 $\chi^2/\text{NDF}: 3827.4/38$

Left In: -85.134 ± 0.415 $\chi^2/\text{NDF}: 12841.3/22$

Left: -85.876 ± 0.291 $\chi^2/\text{NDF}: 27363.3/47$

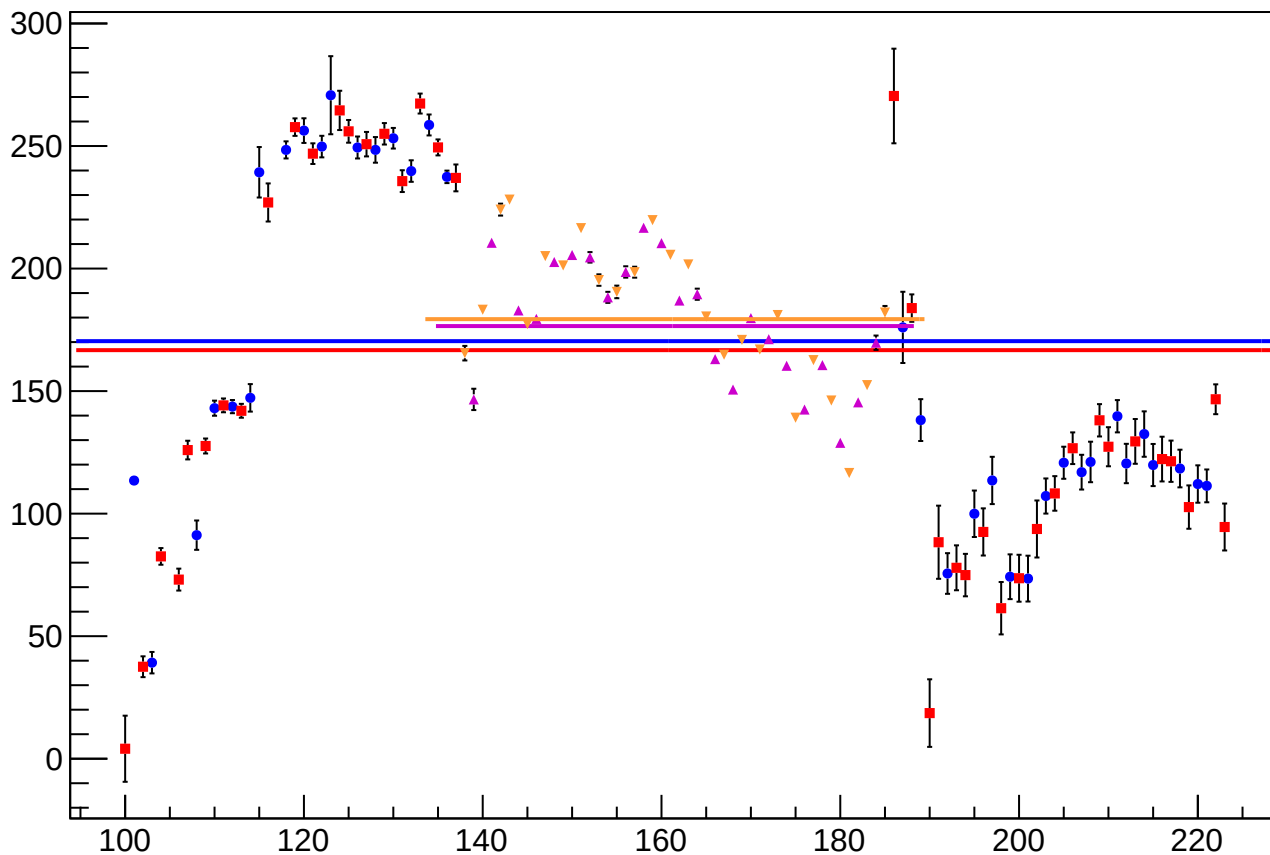
Right: -124.018 ± 0.600 $\chi^2/\text{NDF}: 7053.0/73$

In: -92.051 ± 0.374 $\chi^2/\text{NDF}: 17548.3/57$

Out: -94.179 ± 0.367 $\chi^2/\text{NDF}: 20119.5/63$

All: -93.137 ± 0.262 $\chi^2/\text{NDF}: 37684.3/121$

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 170.382 $\pm$ 0.829 χ^2 /NDF: 6494.1/34

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24

Right Out: 166.708 $\pm$ 0.831 χ^2 /NDF: 7499.7/38

Left In: 176.531 $\pm$ 0.371 χ^2 /NDF: 4426.0/22

Left: 177.980 $\pm$ 0.259 χ^2 /NDF: 10438.0/47

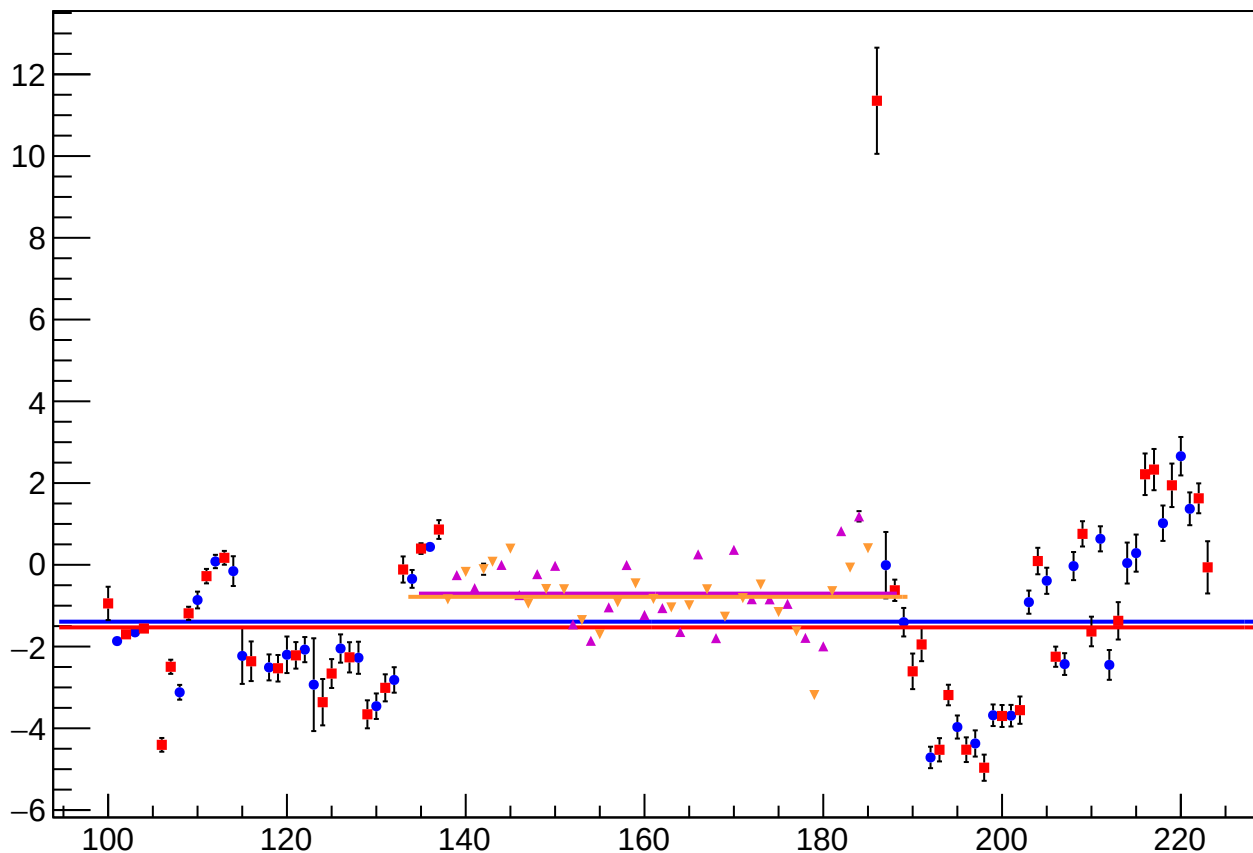
Right: 168.551 $\pm$ 0.587 χ^2 /NDF: 14003.6/73

In: 175.505 $\pm$ 0.339 χ^2 /NDF: 10966.0/57

Out: 177.343 $\pm$ 0.332 χ^2 /NDF: 13676.7/63

All: 176.442 $\pm$ 0.237 χ^2 /NDF: 24657.7/121

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.391 ± 0.041 χ^2/NDF : 1390.9/34

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.531 ± 0.039 χ^2/NDF : 1839.5/38

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

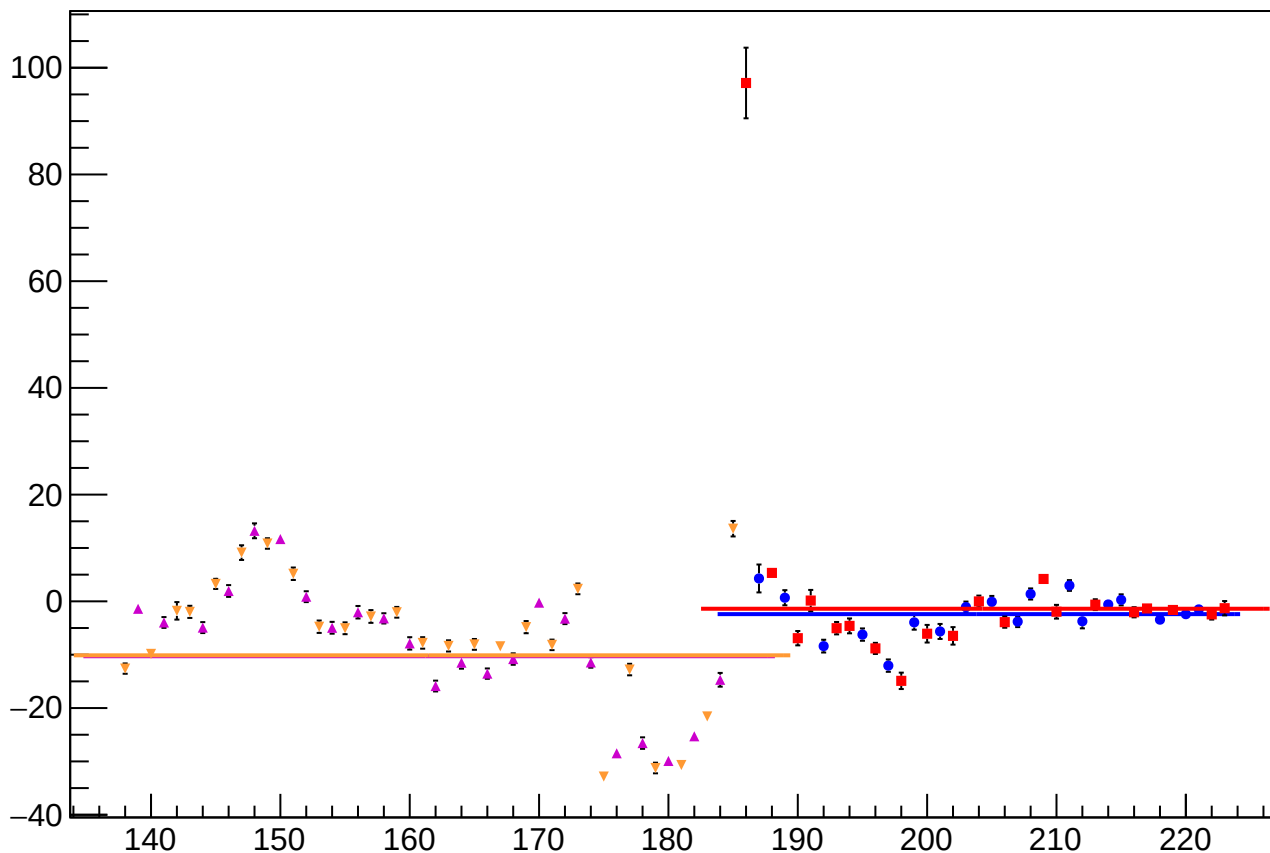
Right: -1.464 ± 0.028 χ^2/NDF : 3236.4/73

In: -0.804 ± 0.016 χ^2/NDF : 4037.7/57

Out: -0.896 ± 0.015 χ^2/NDF : 3916.6/63

All: -0.851 ± 0.011 χ^2/NDF : 7971.8/121

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.398 ± 0.257 χ^2/NDF : 186.3/17

Left Out: -10.117 ± 0.201 χ^2/NDF : 4138.1/24

Right Out: -1.388 ± 0.248 χ^2/NDF : 560.6/19

Left In: -10.290 ± 0.205 χ^2/NDF : 3451.0/22

Left: -10.202 ± 0.144 χ^2/NDF : 7589.5/47

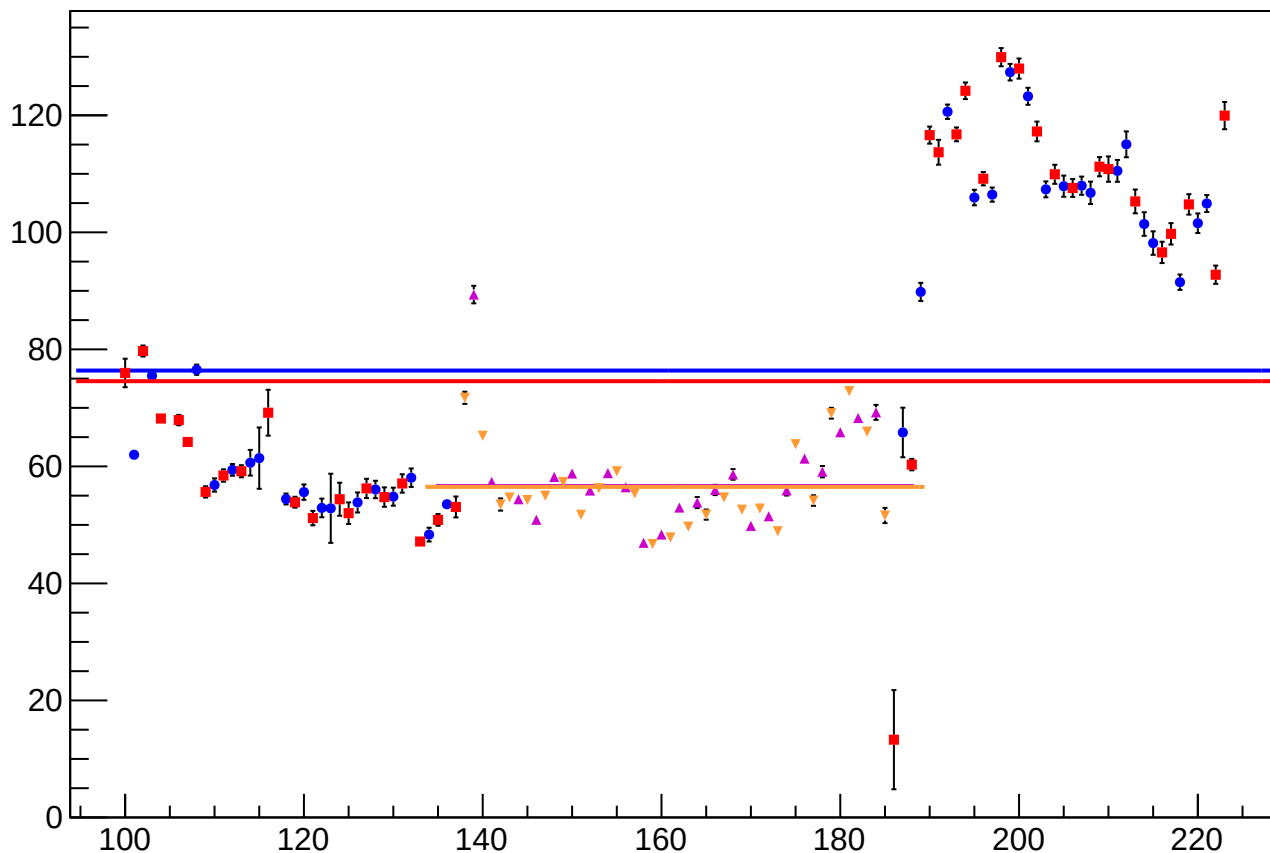
Right: -1.875 ± 0.178 χ^2/NDF : 754.9/37

In: -7.210 ± 0.160 χ^2/NDF : 4213.4/40

Out: -6.644 ± 0.156 χ^2/NDF : 5446.1/44

All: -6.919 ± 0.112 χ^2/NDF : 9665.9/85

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 76.379+/-0.215 χ^2/NDF : 12465.6/34

Left Out: 56.496+/-0.159 χ^2/NDF :1968.0/24

Right Out: 74.562+/-0.203 χ^2/NDF : 15873.2/38

Left In: 56.635+/-0.165 χ^2/NDF :1607.9/22

Left: 56.563+/-0.114 χ^2/NDF : 3576.3/47

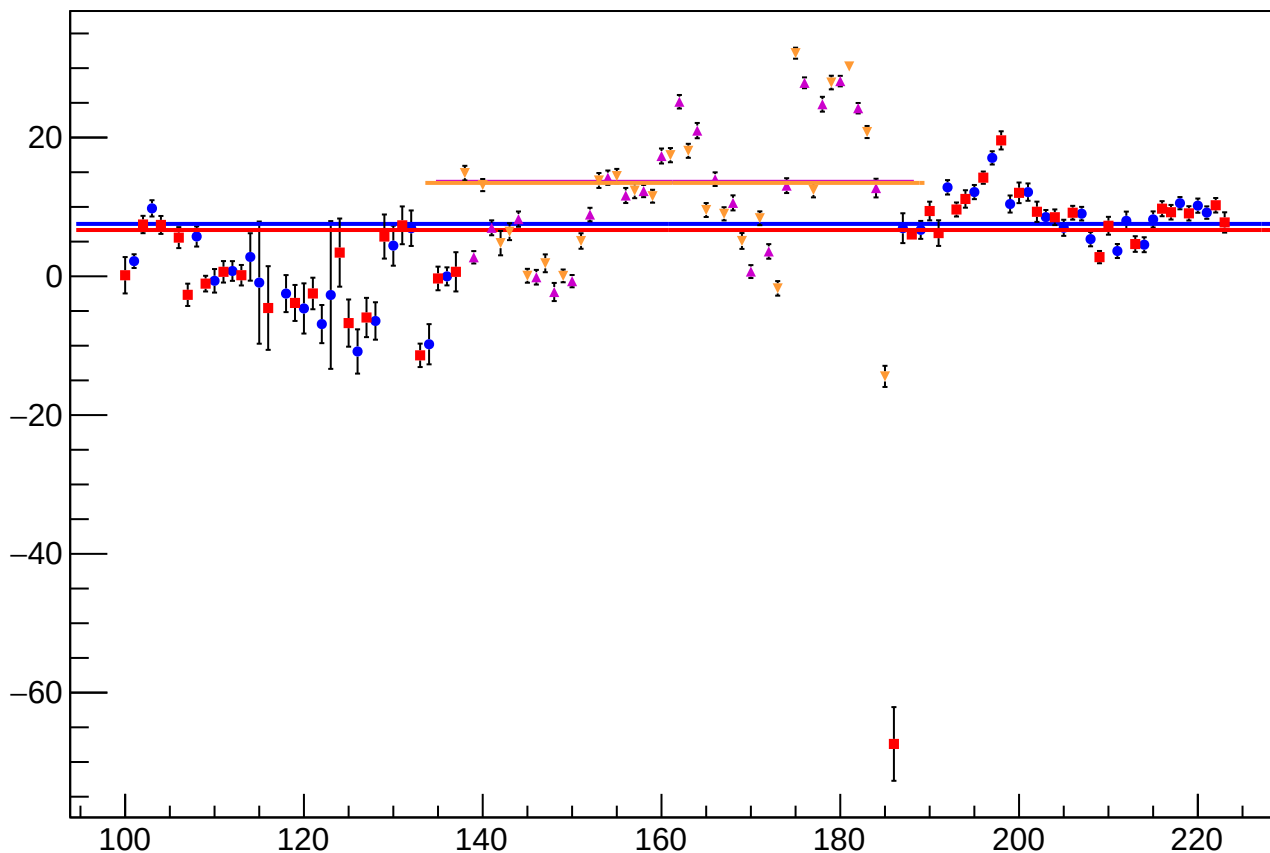
Right: 75.420+/-0.147 χ^2/NDF : 28376.7/73

In: 63.976+/-0.131 χ^2/NDF :19388.7/57

Out: 63.357+/-0.125 χ^2/NDF :22751.9/63

All: 63.652+/-0.090 χ^2/NDF : 42152.3/121

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.552 ± 0.223 χ^2/NDF : 485.1/34

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.672 ± 0.208 χ^2/NDF : 801.5/38

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

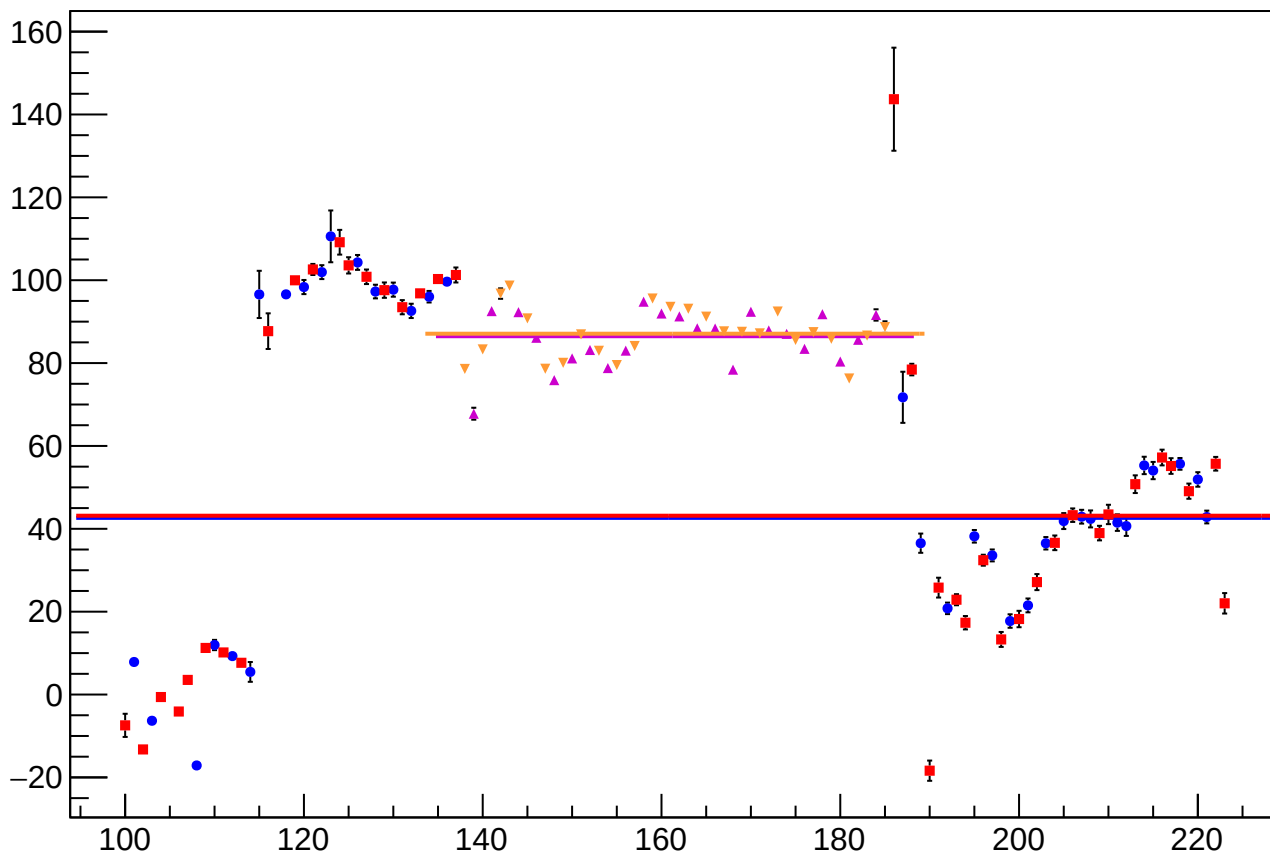
Right: 7.082 ± 0.152 χ^2/NDF : 1294.9/73

In: 10.849 ± 0.151 χ^2/NDF : 3202.8/57

Out: 10.179 ± 0.145 χ^2/NDF : 4086.8/63

All: 10.501 ± 0.104 χ^2/NDF : 7299.9/121

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.643 $\pm$ 0.246 χ^2 /NDF: 25665.5/34

Left Out: 87.087 $\pm$ 0.179 χ^2 /NDF:1085.8/24

Right Out: 43.160 $\pm$ 0.236 χ^2 /NDF: 31019.0/38

Left In: 86.482 $\pm$ 0.185 χ^2 /NDF:1003.2/22

Left: 86.794 $\pm$ 0.129 χ^2 /NDF: 2094.5/47

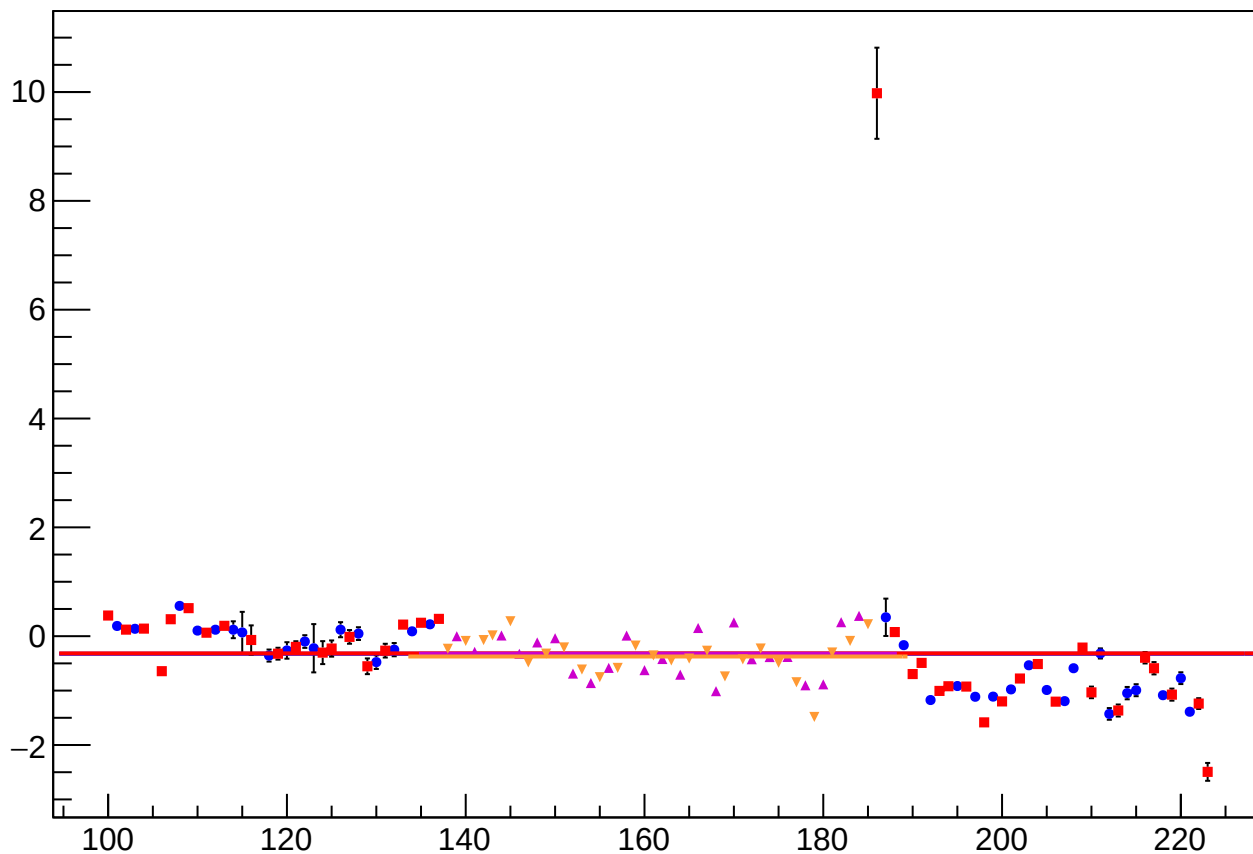
Right: 42.912 $\pm$ 0.170 χ^2 /NDF: 56686.7/73

In: 70.661 $\pm$ 0.148 χ^2 /NDF:47018.6/57

Out: 71.054 $\pm$ 0.143 χ^2 /NDF:54066.4/63

All: 70.864 $\pm$ 0.103 χ^2 /NDF: 101088.7/121

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.323 ± 0.010 χ^2/NDF : 3649.1/34

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.316 ± 0.010 χ^2/NDF : 4027.2/38

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

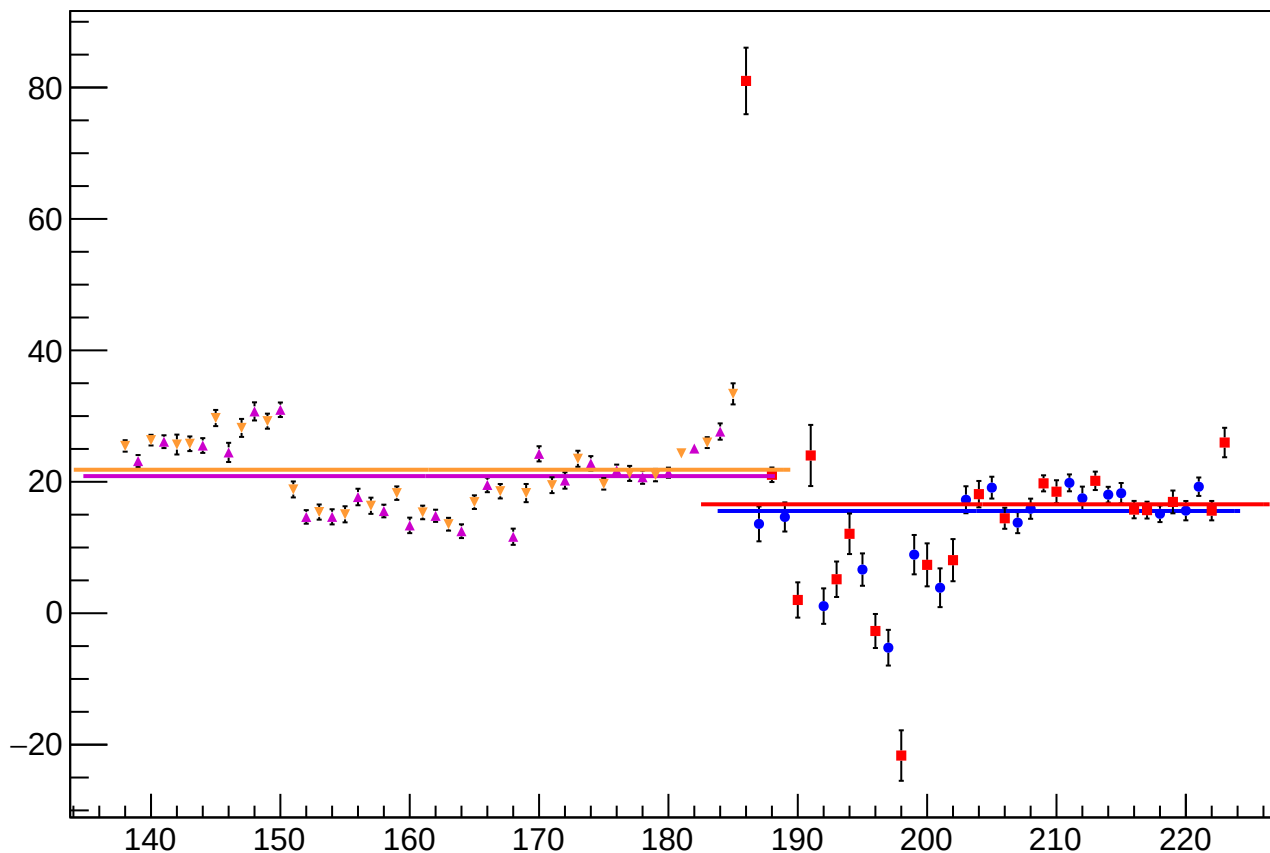
Right: -0.319 ± 0.007 χ^2/NDF : 7676.5/73

In: -0.324 ± 0.006 χ^2/NDF : 5933.3/57

Out: -0.350 ± 0.006 χ^2/NDF : 5715.8/63

All: -0.338 ± 0.004 χ^2/NDF : 11657.4/121

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 15.560 $\pm$ 0.406 χ^2 /NDF: 155.1/17

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF: 524.3/24

Right Out: 16.576 $\pm$ 0.408 χ^2 /NDF: 435.6/19

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

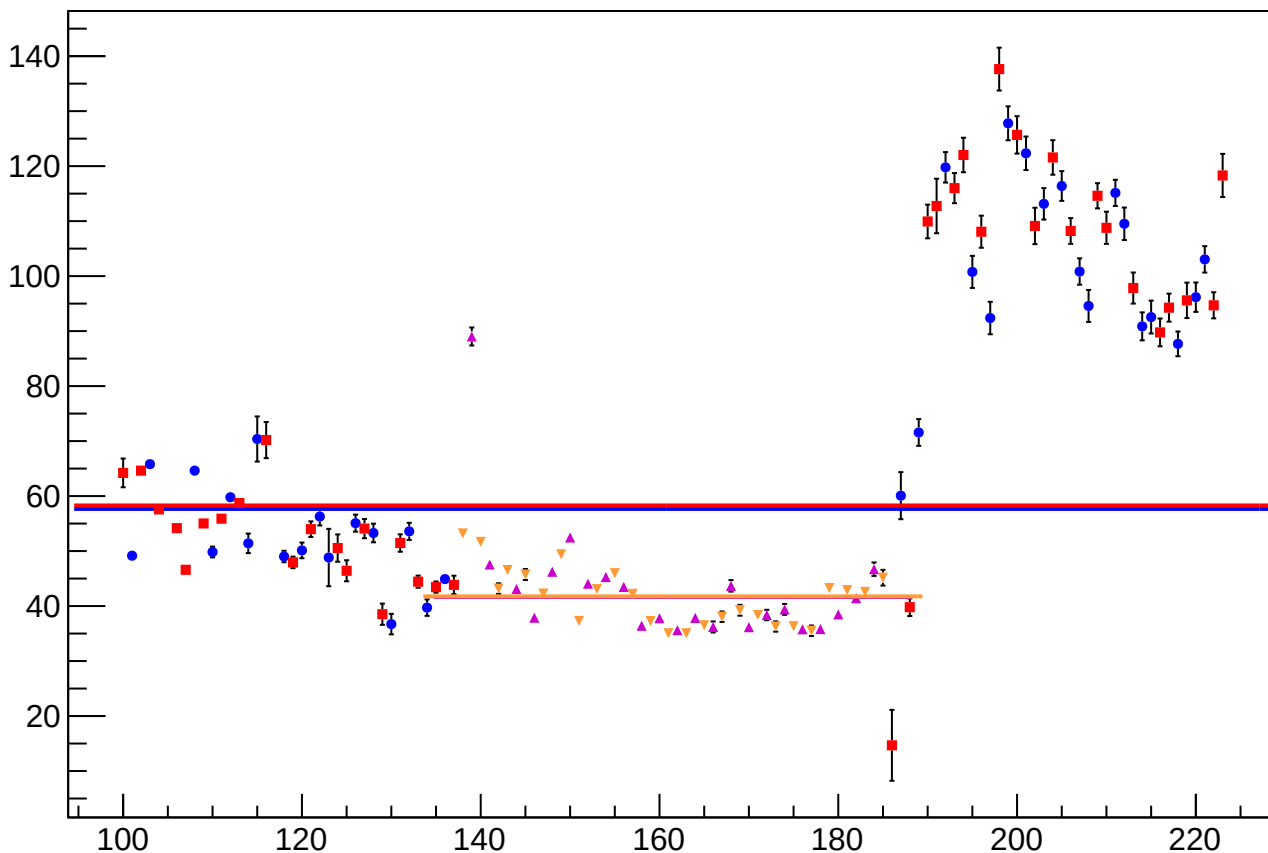
Right: 16.066 $\pm$ 0.288 χ^2 /NDF: 593.8/37

In: 19.690 $\pm$ 0.191 χ^2 /NDF: 864.8/40

Out: 20.736 $\pm$ 0.187 χ^2 /NDF: 1091.4/44

All: 20.226 $\pm$ 0.134 χ^2 /NDF: 1971.6/85

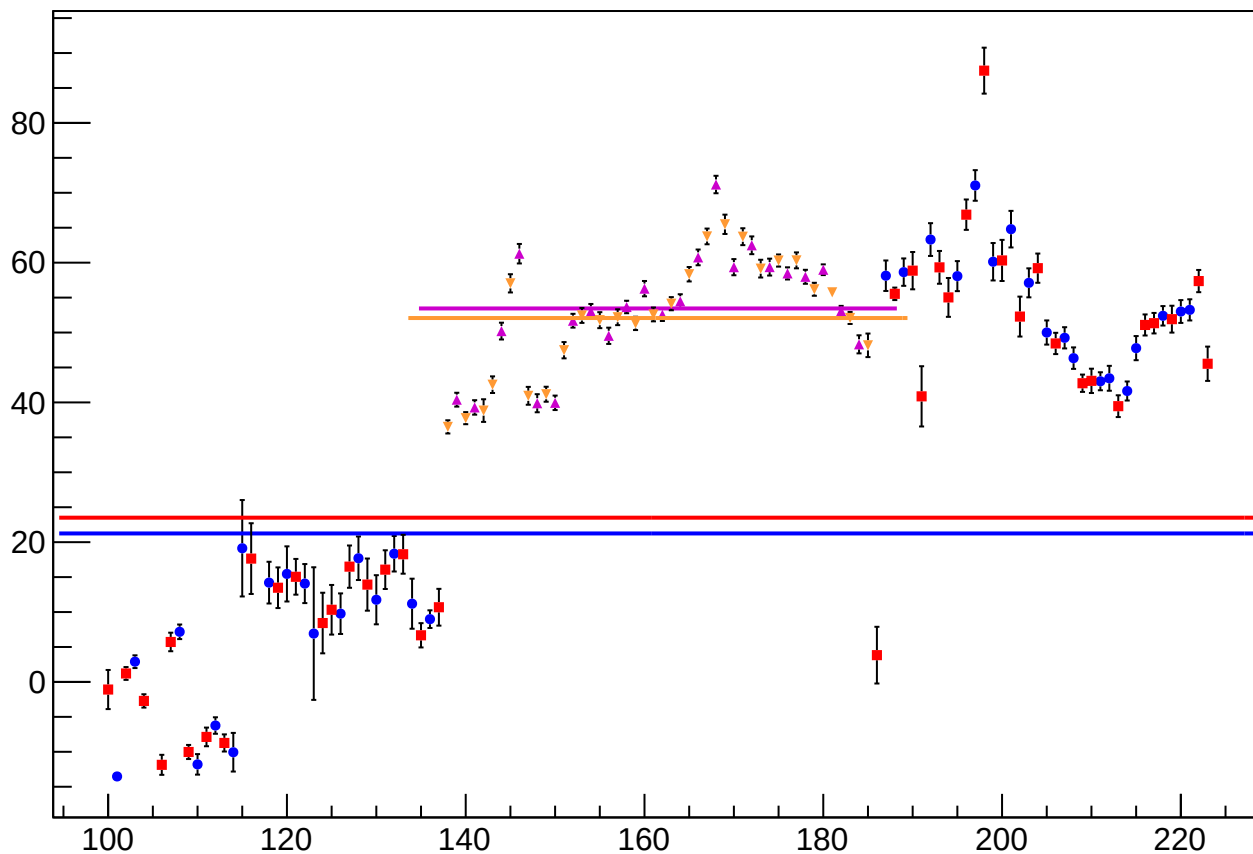
reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 57.666 ± 0.201 χ^2/NDF : 6817.4/34
 Left Out: 41.757 ± 0.165 χ^2/NDF : 1015.7/24
 Right Out: 58.291 ± 0.213 χ^2/NDF : 7045.5/38
 Left In: 41.643 ± 0.174 χ^2/NDF : 1611.0/22

Left: 41.703 ± 0.120 χ^2/NDF : 2626.9/47
 Right: 57.959 ± 0.146 χ^2/NDF : 13867.4/73
 In: 48.515 ± 0.131 χ^2/NDF : 12074.7/57
 Out: 47.960 ± 0.131 χ^2/NDF : 11811.6/63
 All: 48.236 ± 0.093 χ^2/NDF : 23895.3/121

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 21.248 $\pm$ 0.273 χ^2 /NDF: 10717.2/34

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 23.505 $\pm$ 0.275 χ^2 /NDF: 10121.7/38

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

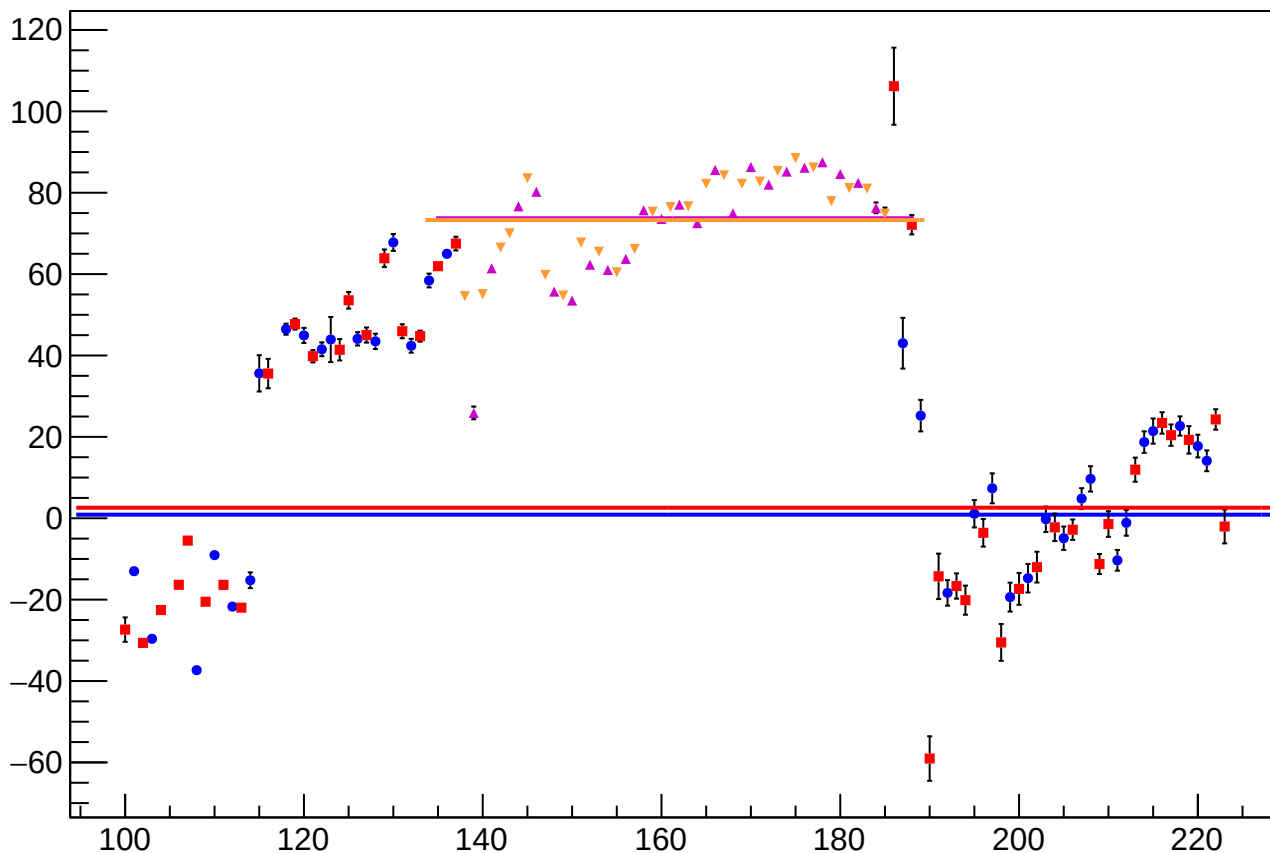
Right: 22.366 $\pm$ 0.194 χ^2 /NDF: 20872.9/73

In: 41.091 $\pm$ 0.169 χ^2 /NDF:20464.5/57

Out: 41.574 $\pm$ 0.167 χ^2 /NDF:18376.1/63

All: 41.336 $\pm$ 0.119 χ^2 /NDF: 38844.8/121

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.882 ± 0.234 $\chi^2/\text{NDF}: 18676.0/34$

Left Out: 73.284 ± 0.187 $\chi^2/\text{NDF}: 3144.2/24$

Right Out: 2.599 ± 0.250 $\chi^2/\text{NDF}: 16962.4/38$

Left In: 73.730 ± 0.194 $\chi^2/\text{NDF}: 3775.8/22$

Left: 73.498 ± 0.135 $\chi^2/\text{NDF}: 6922.7/47$

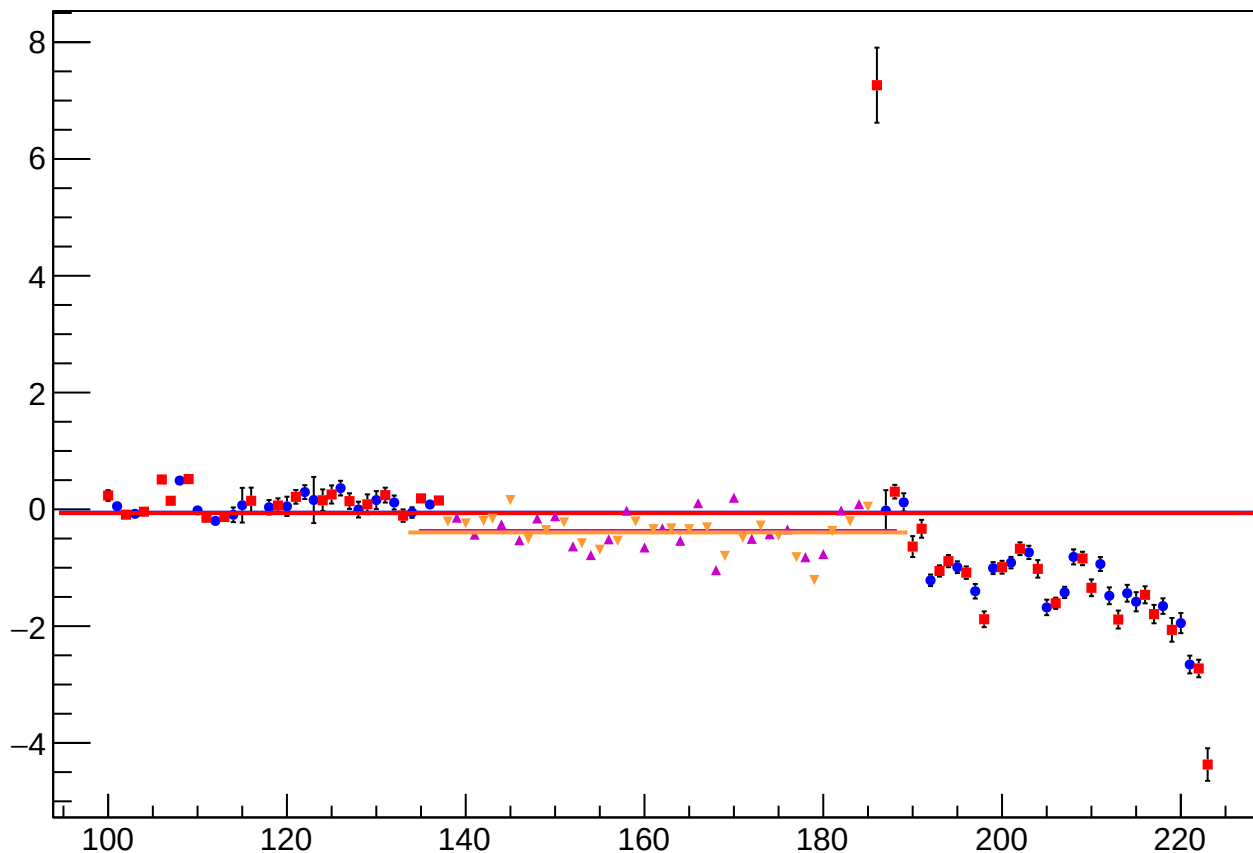
Right: 1.683 ± 0.171 $\chi^2/\text{NDF}: 35663.6/73$

In: 43.997 ± 0.150 $\chi^2/\text{NDF}: 79804.9/57$

Out: 47.975 ± 0.150 $\chi^2/\text{NDF}: 71348.3/63$

All: 45.984 ± 0.106 $\chi^2/\text{NDF}: 151506.8/121$

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.057 ± 0.010 χ^2/NDF : 2426.4/34

Left Out: -0.396 ± 0.009 χ^2/NDF : 950.0/24

Right Out: -0.064 ± 0.010 χ^2/NDF : 2705.7/38

Left In: -0.371 ± 0.009 χ^2/NDF : 1313.7/22

Left: -0.383 ± 0.006 χ^2/NDF : 2268.0/47

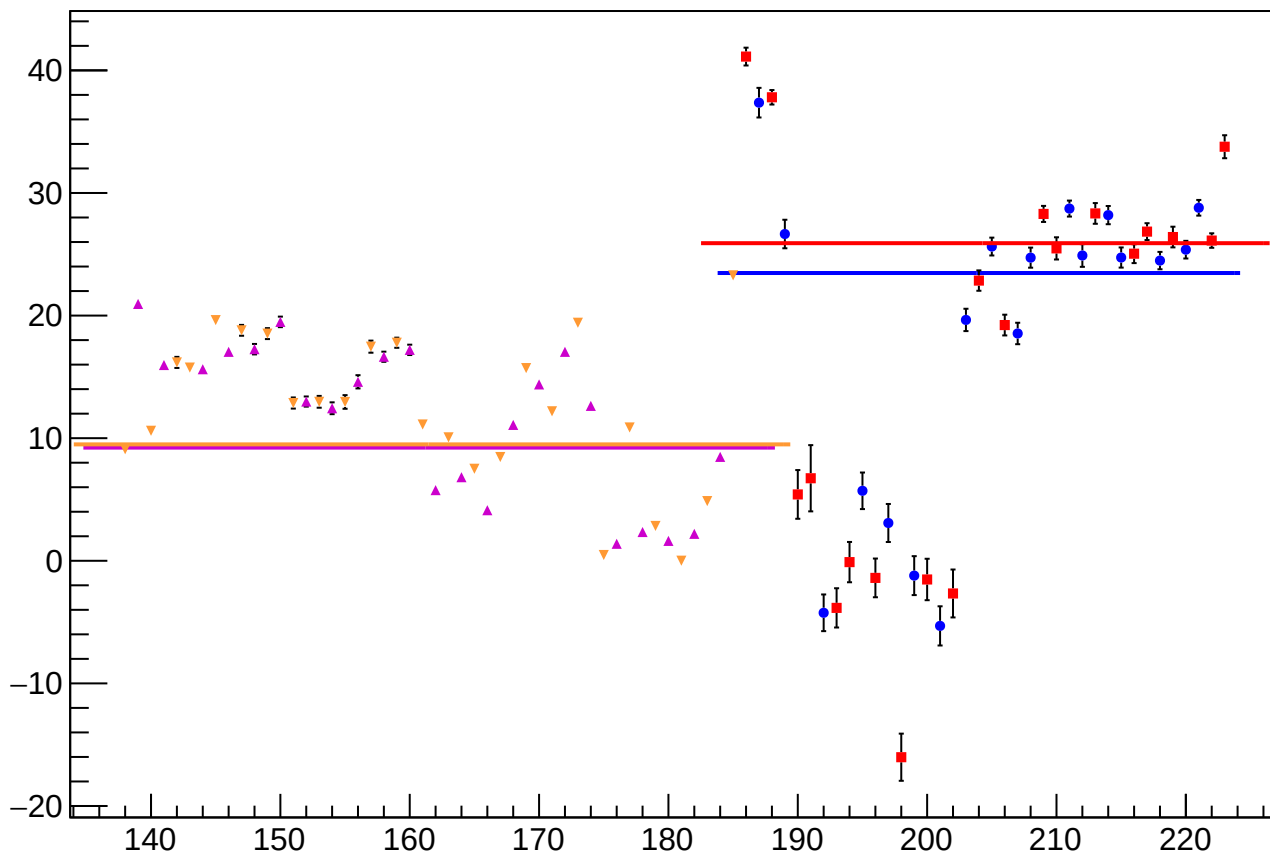
Right: -0.061 ± 0.007 χ^2/NDF : 5132.3/73

In: -0.241 ± 0.007 χ^2/NDF : 4278.8/57

Out: -0.261 ± 0.007 χ^2/NDF : 4267.8/63

All: -0.251 ± 0.005 χ^2/NDF : 8551.3/121

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 23.472 ± 0.210 χ^2/NDF : 1612.5/17

Left Out: 9.495 ± 0.061 χ^2/NDF : 12609.1/24

Right Out: 25.905 ± 0.203 χ^2/NDF : 3019.4/19

Left In: 9.231 ± 0.063 χ^2/NDF : 10736.2/22

Left: 9.367 ± 0.044 χ^2/NDF : 23354.3/47

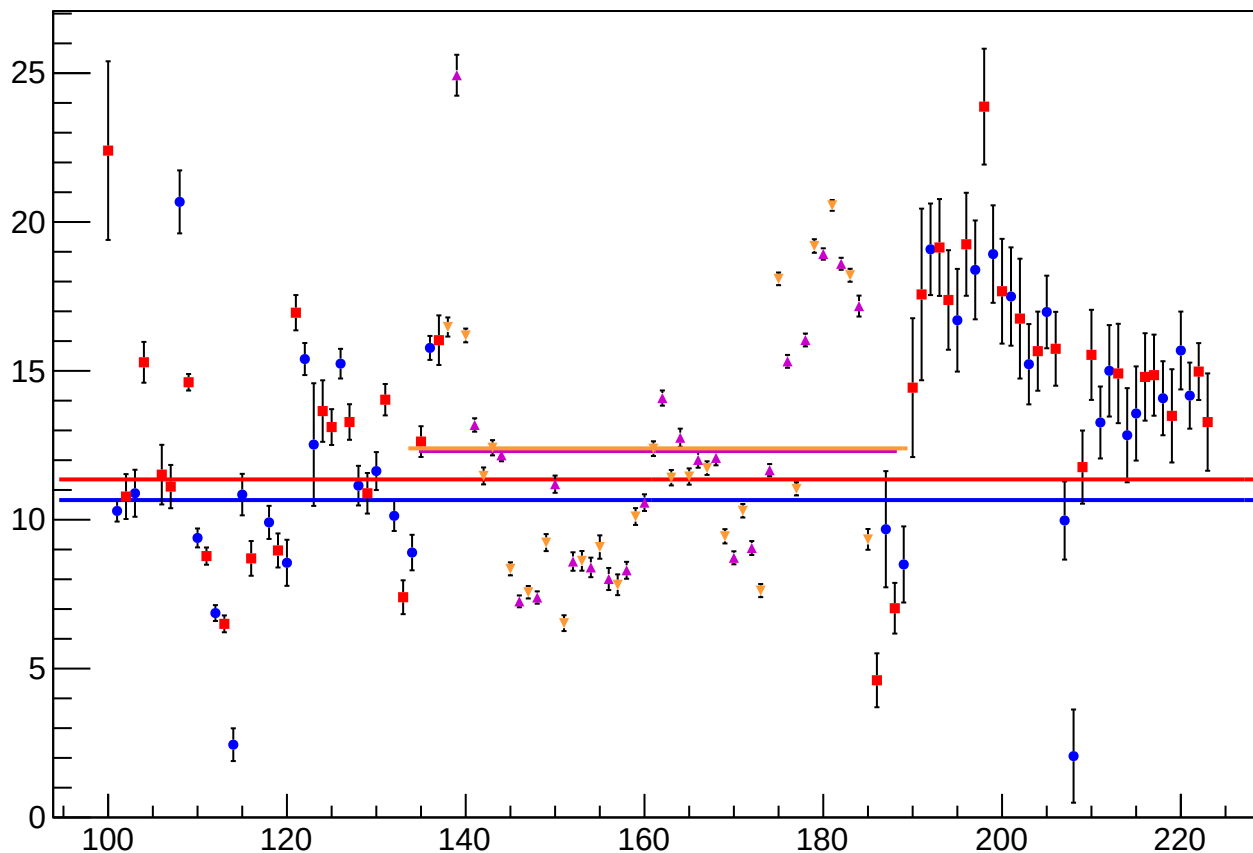
Right: 24.731 ± 0.146 χ^2/NDF : 4701.1/37

In: 10.404 ± 0.060 χ^2/NDF : 16554.3/40

Out: 10.862 ± 0.059 χ^2/NDF : 21607.4/44

All: 10.640 ± 0.042 χ^2/NDF : 38191.2/85

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.660 $\pm$ 0.113 χ^2 /NDF: 1106.7/34

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.354 $\pm$ 0.109 χ^2 /NDF: 1092.8/38

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

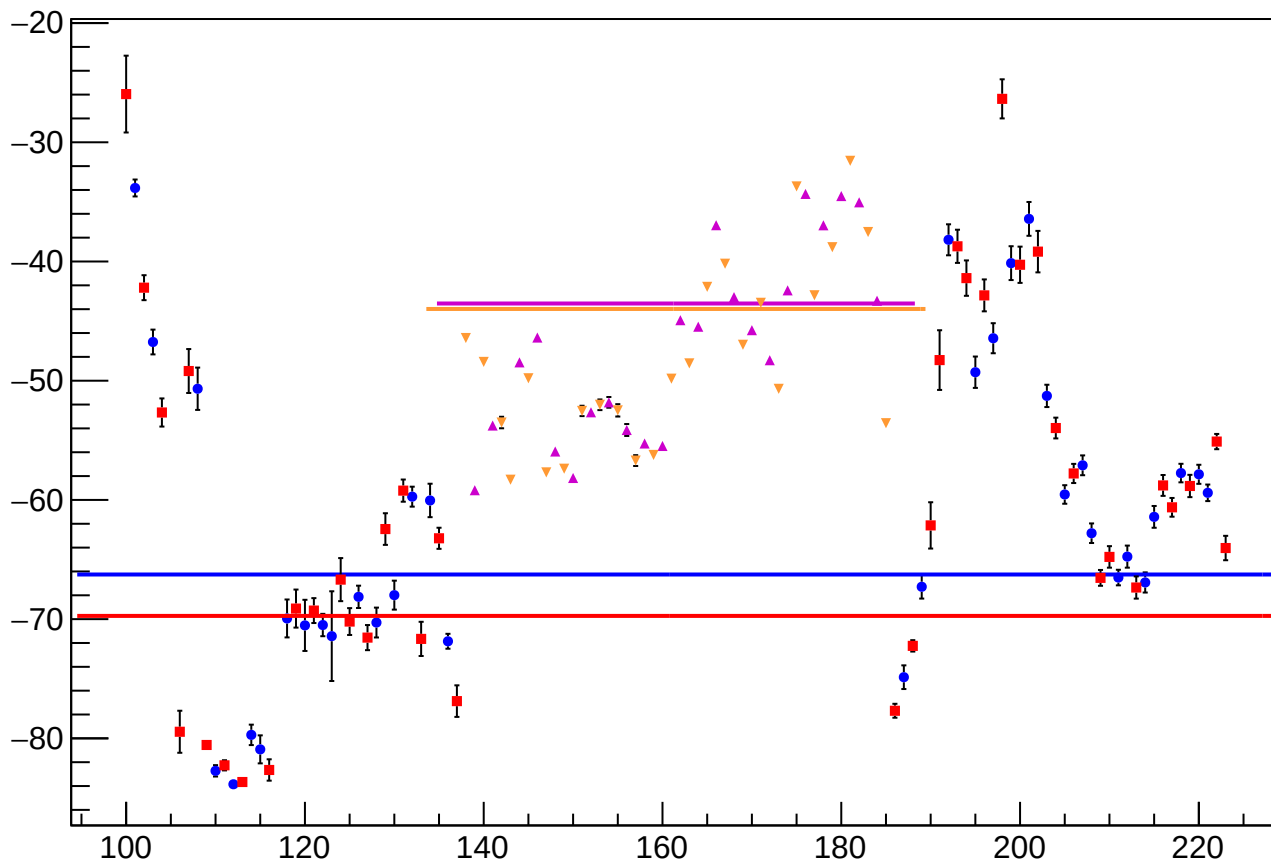
Right: 11.018 $\pm$ 0.078 χ^2 /NDF: 2219.1/73

In: 12.025 $\pm$ 0.047 χ^2 /NDF: 6885.5/57

Out: 12.218 $\pm$ 0.045 χ^2 /NDF: 8711.4/63

All: 12.124 $\pm$ 0.032 χ^2 /NDF: 15605.7/121

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.256 ± 0.145 $\chi^2/\text{NDF}: 9026.6/34$

Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$

Right Out: -69.729 ± 0.134 $\chi^2/\text{NDF}: 9203.8/38$

Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$

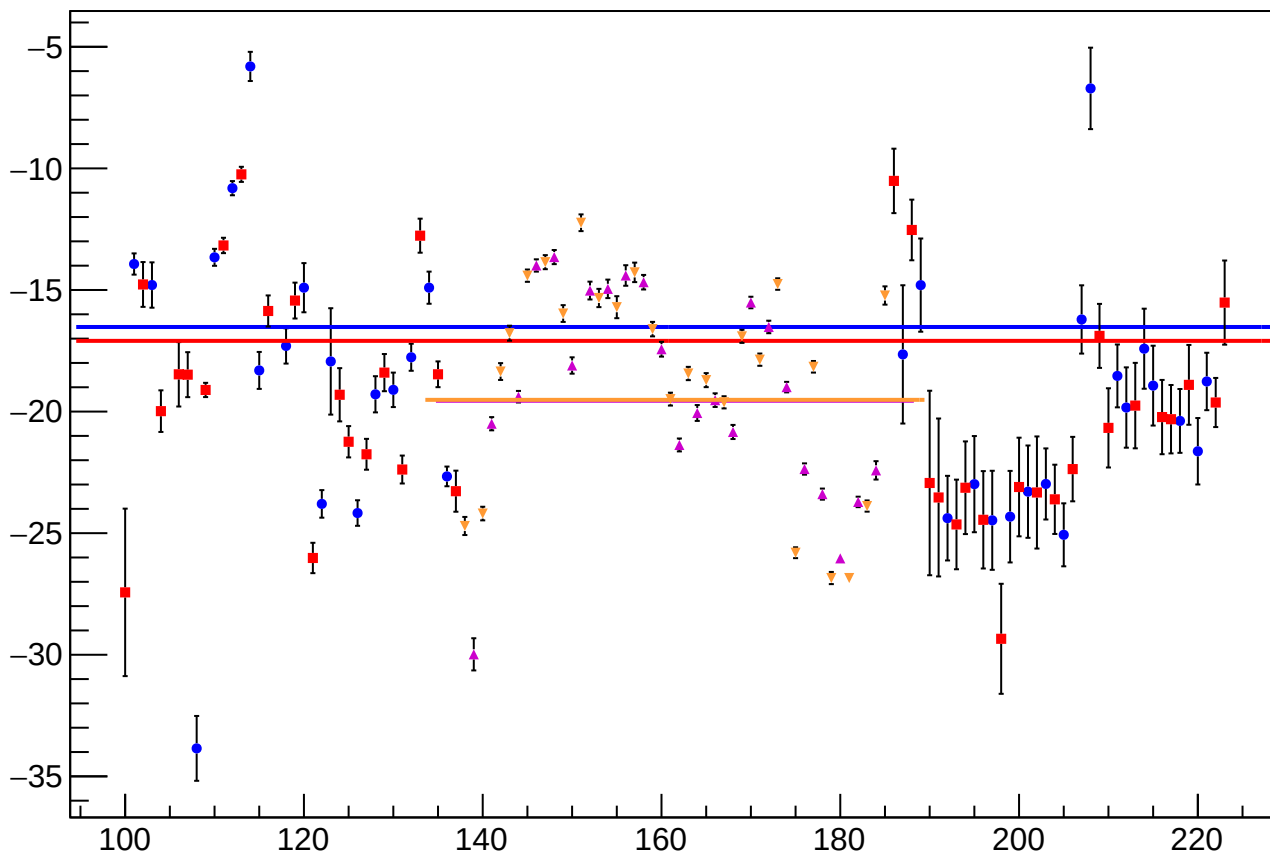
Right: -68.135 ± 0.098 $\chi^2/\text{NDF}: 18539.5/73$

In: -47.150 ± 0.058 $\chi^2/\text{NDF}: 44859.2/57$

Out: -48.524 ± 0.056 $\chi^2/\text{NDF}: 57431.1/63$

All: -47.860 ± 0.040 $\chi^2/\text{NDF}: 102579.4/121$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.521 ± 0.125 $\chi^2/\text{NDF}: 1841.1/34$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -17.092 ± 0.121 $\chi^2/\text{NDF}: 1409.0/38$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

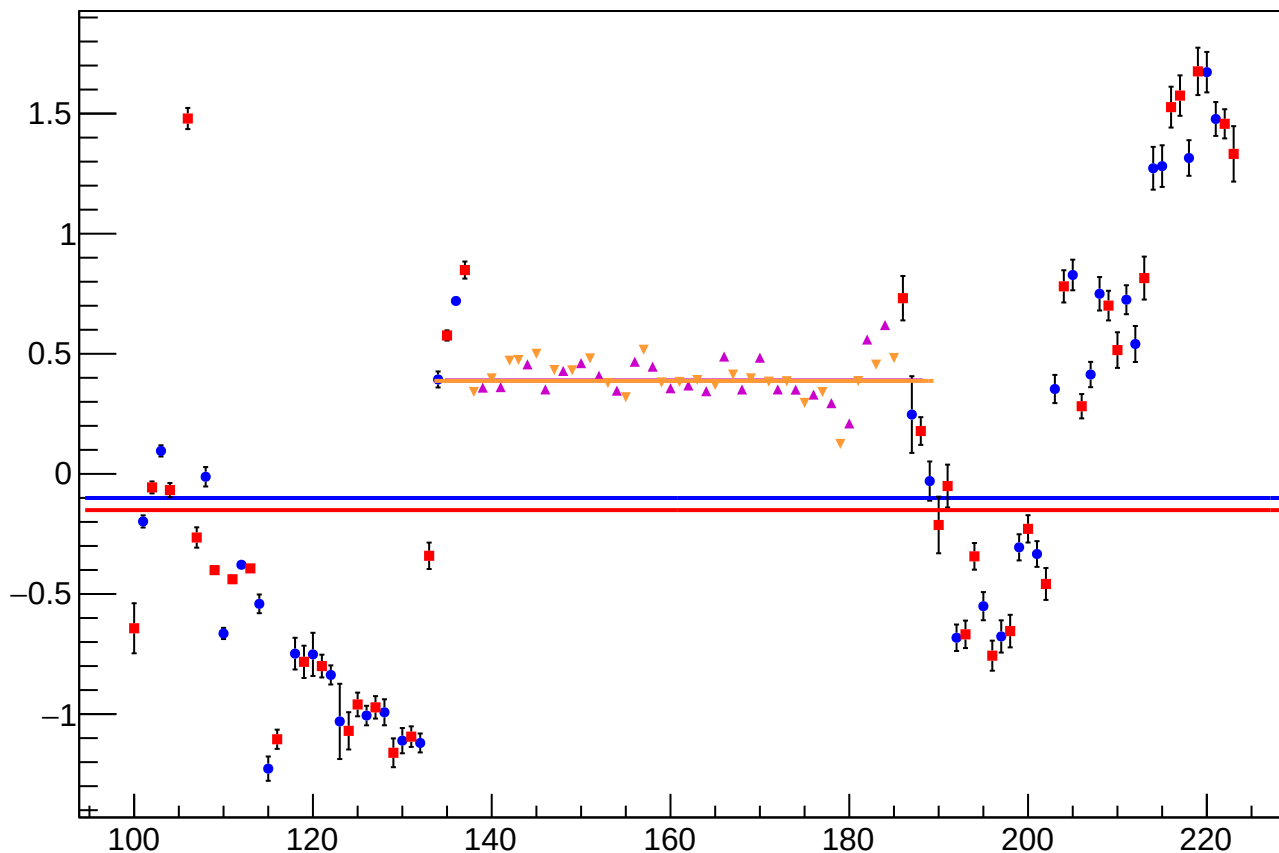
Right: -16.817 ± 0.087 $\chi^2/\text{NDF}: 3260.9/73$

In: -19.028 ± 0.052 $\chi^2/\text{NDF}: 6638.4/57$

Out: -19.091 ± 0.051 $\chi^2/\text{NDF}: 8259.3/63$

All: -19.061 ± 0.036 $\chi^2/\text{NDF}: 14898.5/121$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.100 ± 0.007 χ^2/NDF : 9335.3/34

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.151 ± 0.007 χ^2/NDF : 9387.9/38

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

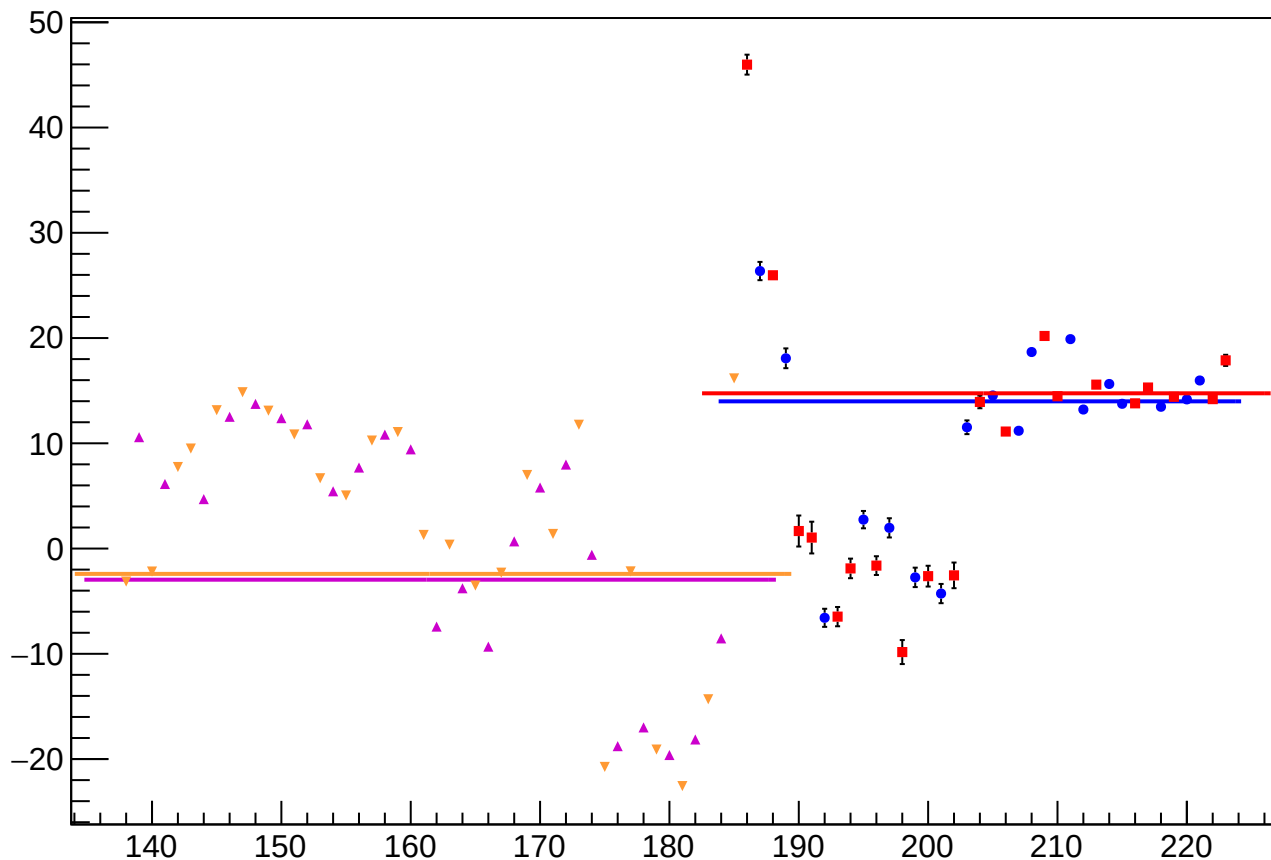
Right: -0.127 ± 0.005 χ^2/NDF : 18751.9/73

In: 0.326 ± 0.002 χ^2/NDF : 15093.4/57

Out: 0.315 ± 0.002 χ^2/NDF : 16285.1/63

All: 0.321 ± 0.002 χ^2/NDF : 31388.5/121

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.986 ± 0.113 χ^2/NDF : 2413.0/17

Left Out: -2.407 ± 0.053 χ^2/NDF : 56368.5/24

Right Out: 14.750 ± 0.114 χ^2/NDF : 4478.6/19

Left In: -2.959 ± 0.055 χ^2/NDF : 45922.6/22

Left: -2.672 ± 0.038 χ^2/NDF : 102343.8/47

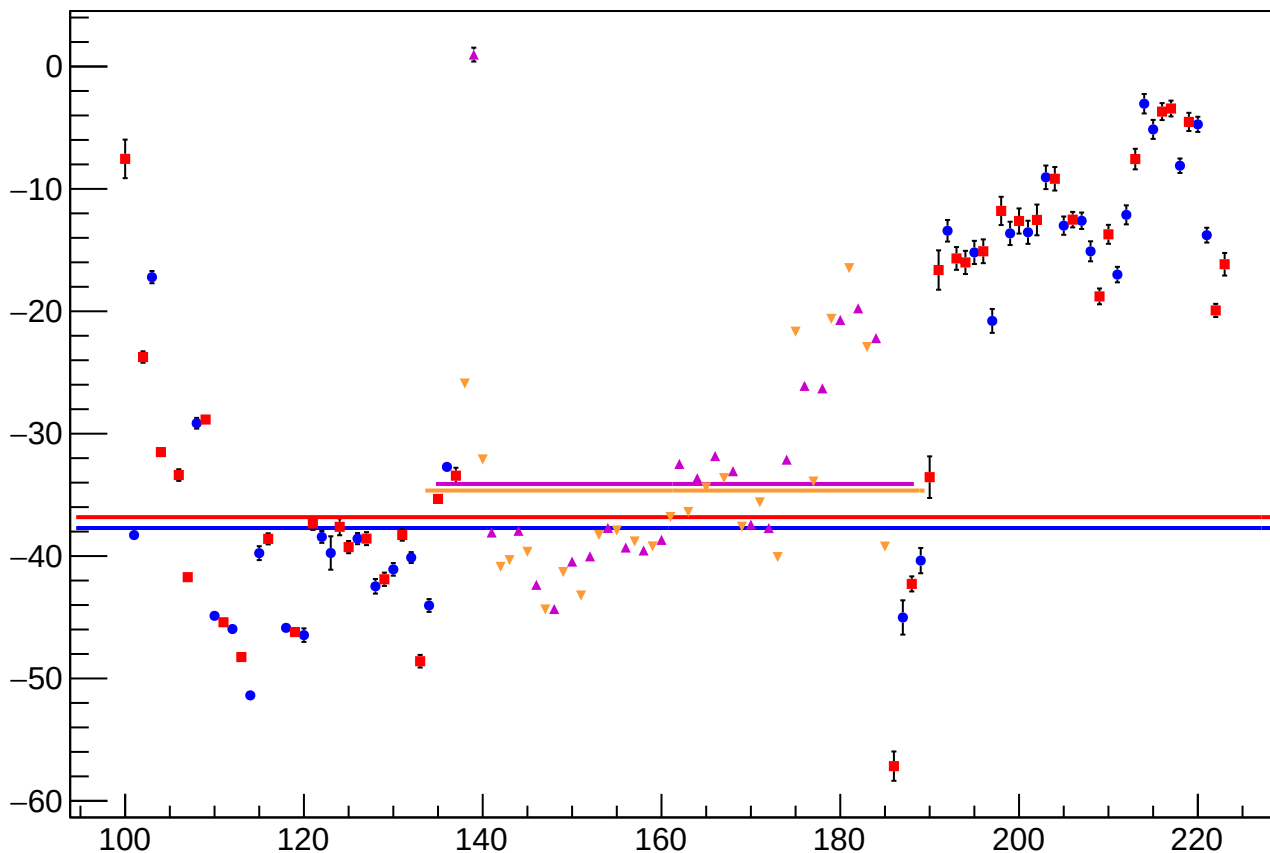
Right: 14.362 ± 0.080 χ^2/NDF : 6914.1/37

In: 0.280 ± 0.049 χ^2/NDF : 66577.2/40

Out: 0.600 ± 0.048 χ^2/NDF : 79369.0/44

All: 0.445 ± 0.034 χ^2/NDF : 145967.7/85

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -37.708 ± 0.072 $\chi^2/\text{NDF}: 29568.8/34$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -36.820 ± 0.068 $\chi^2/\text{NDF}: 30238.6/38$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

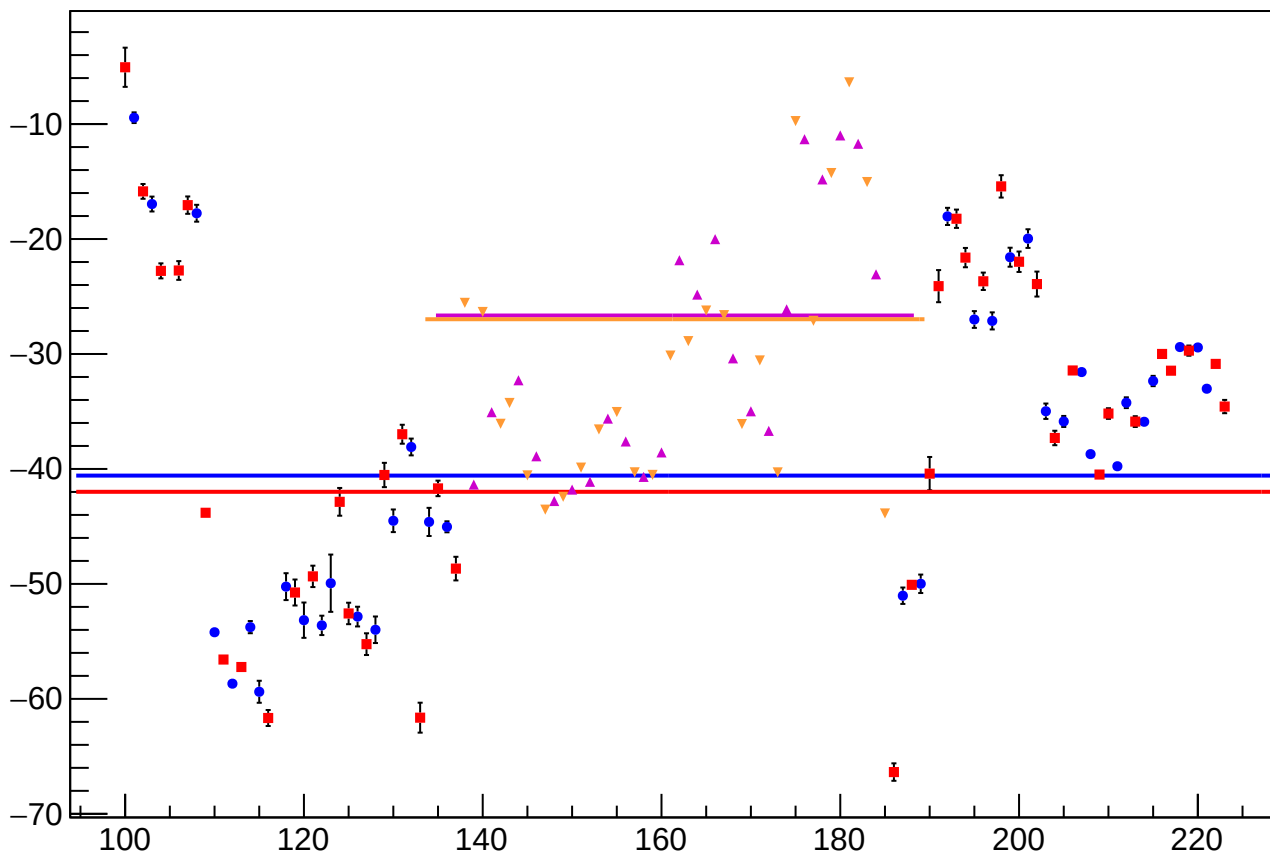
Right: -37.236 ± 0.049 $\chi^2/\text{NDF}: 59888.1/73$

In: -35.086 ± 0.038 $\chi^2/\text{NDF}: 60442.3/57$

Out: -35.245 ± 0.036 $\chi^2/\text{NDF}: 65660.4/63$

All: -35.170 ± 0.026 $\chi^2/\text{NDF}: 126112.3/121$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -40.578 ± 0.085 $\chi^2/\text{NDF}: 25504.6/34$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -41.988 ± 0.079 $\chi^2/\text{NDF}: 24953.6/38$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

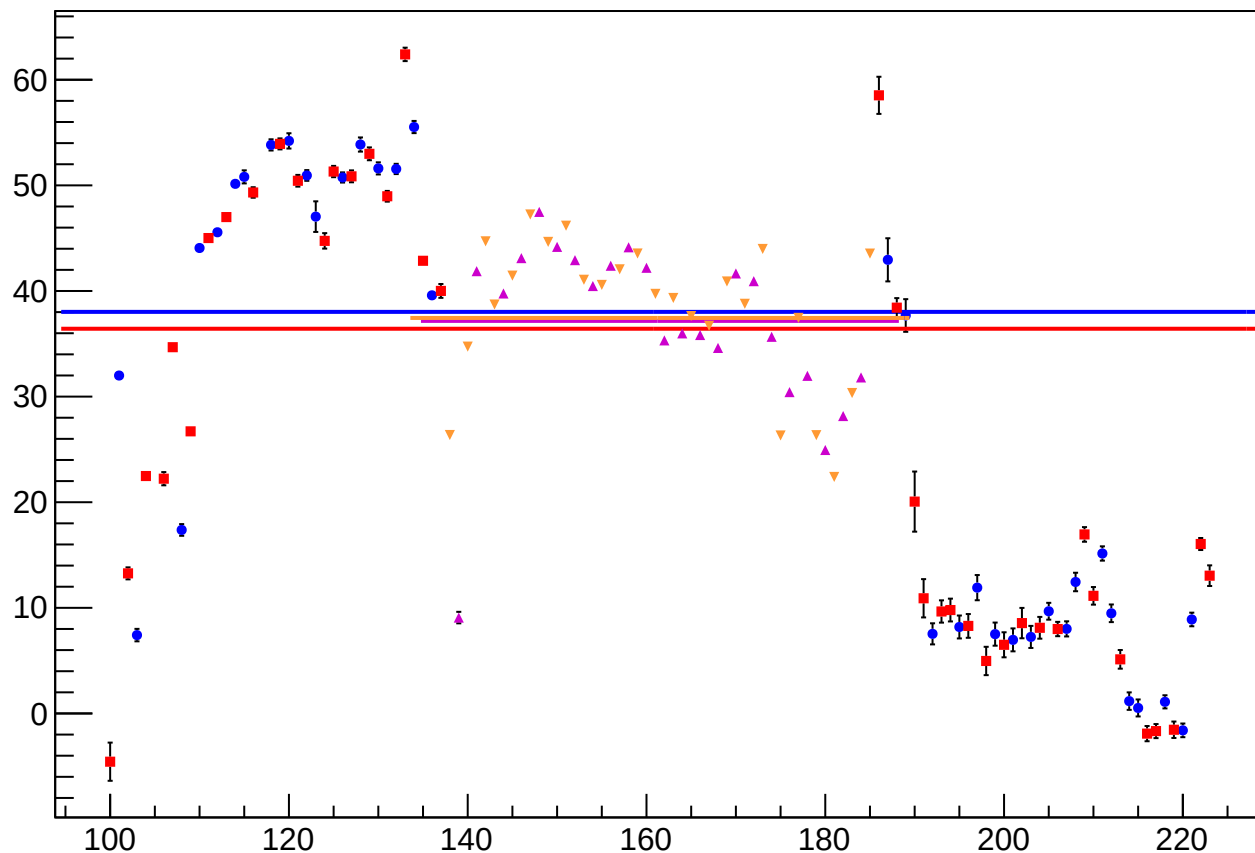
Right: -41.335 ± 0.058 $\chi^2/\text{NDF}: 50606.0/73$

In: -30.761 ± 0.046 $\chi^2/\text{NDF}: 86564.3/57$

Out: -31.668 ± 0.044 $\chi^2/\text{NDF}: 99198.9/63$

All: -31.235 ± 0.032 $\chi^2/\text{NDF}: 185964.8/121$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 38.022 ± 0.080 $\chi^2/\text{NDF}: 39111.2/34$

Left Out: 37.447 ± 0.047 $\chi^2/\text{NDF}: 21570.6/24$

Right Out: 36.426 ± 0.075 $\chi^2/\text{NDF}: 39832.1/38$

Left In: 37.169 ± 0.049 $\chi^2/\text{NDF}: 17236.9/22$

Left: 37.314 ± 0.034 $\chi^2/\text{NDF}: 38824.1/47$

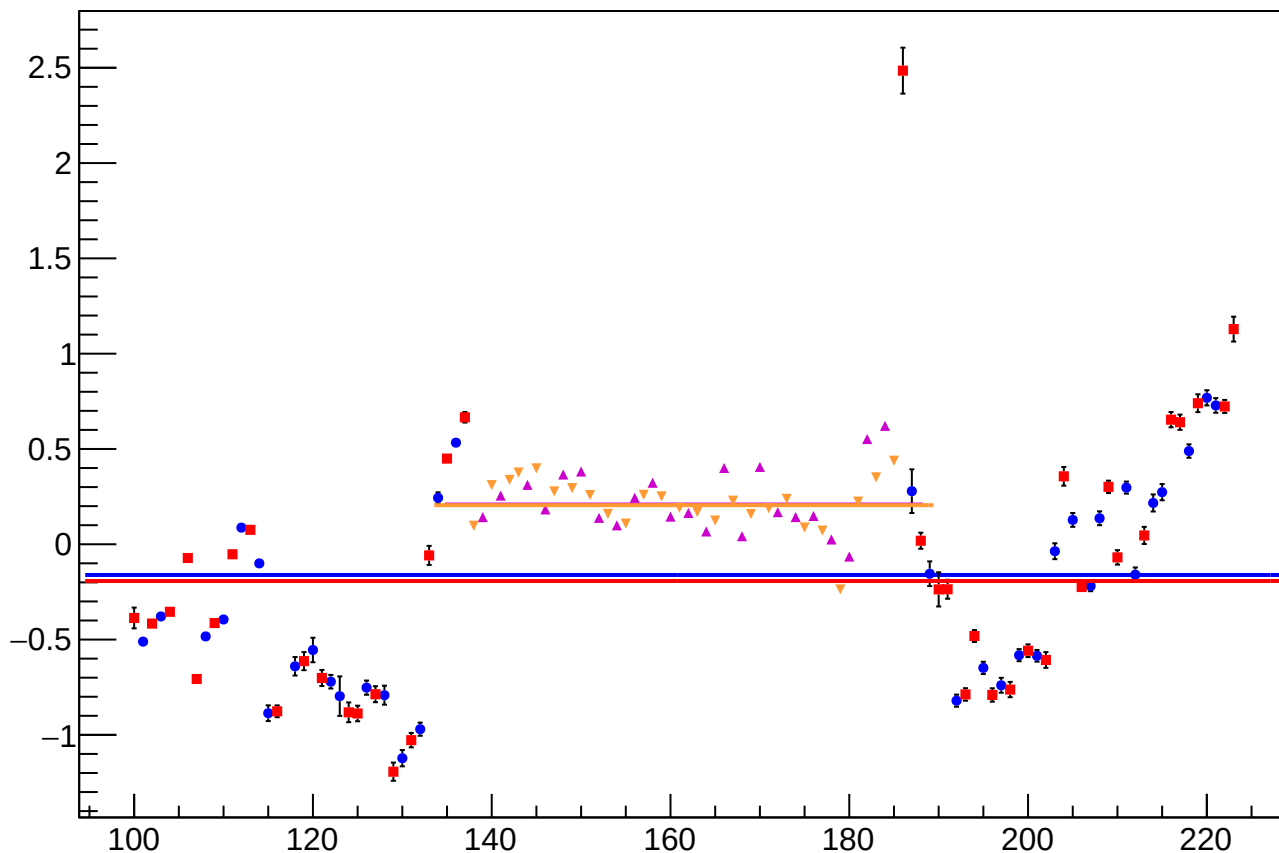
Right: 37.170 ± 0.055 $\chi^2/\text{NDF}: 79156.6/73$

In: 37.404 ± 0.042 $\chi^2/\text{NDF}: 56430.7/57$

Out: 37.155 ± 0.040 $\chi^2/\text{NDF}: 61536.5/63$

All: 37.273 ± 0.029 $\chi^2/\text{NDF}: 117985.7/121$

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.161 ± 0.004 χ^2/NDF : 10578.2/34

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.193 ± 0.004 χ^2/NDF : 11906.1/38

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

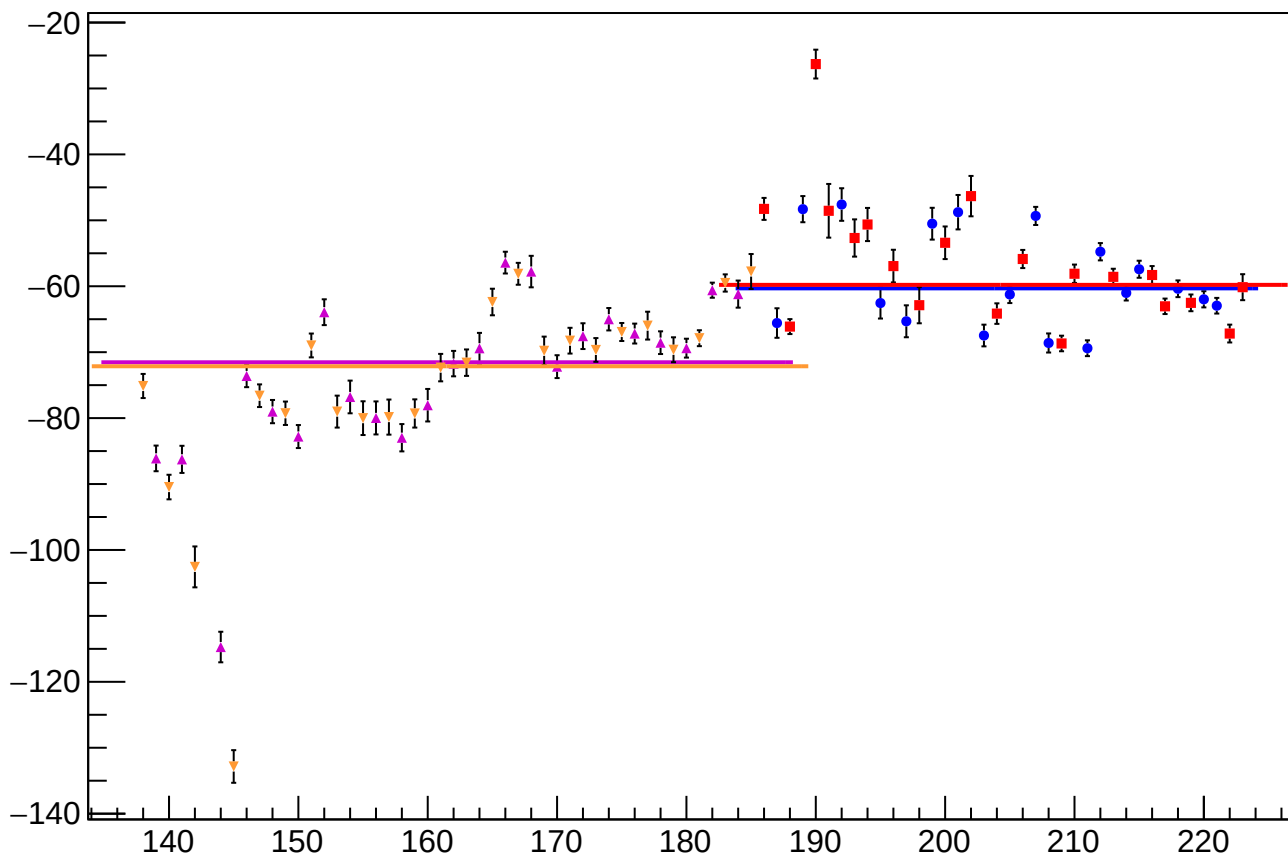
Right: -0.178 ± 0.003 χ^2/NDF : 22514.7/73

In: 0.127 ± 0.002 χ^2/NDF : 21628.5/57

Out: 0.110 ± 0.002 χ^2/NDF : 23768.4/63

All: 0.118 ± 0.001 χ^2/NDF : 45438.1/121

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected

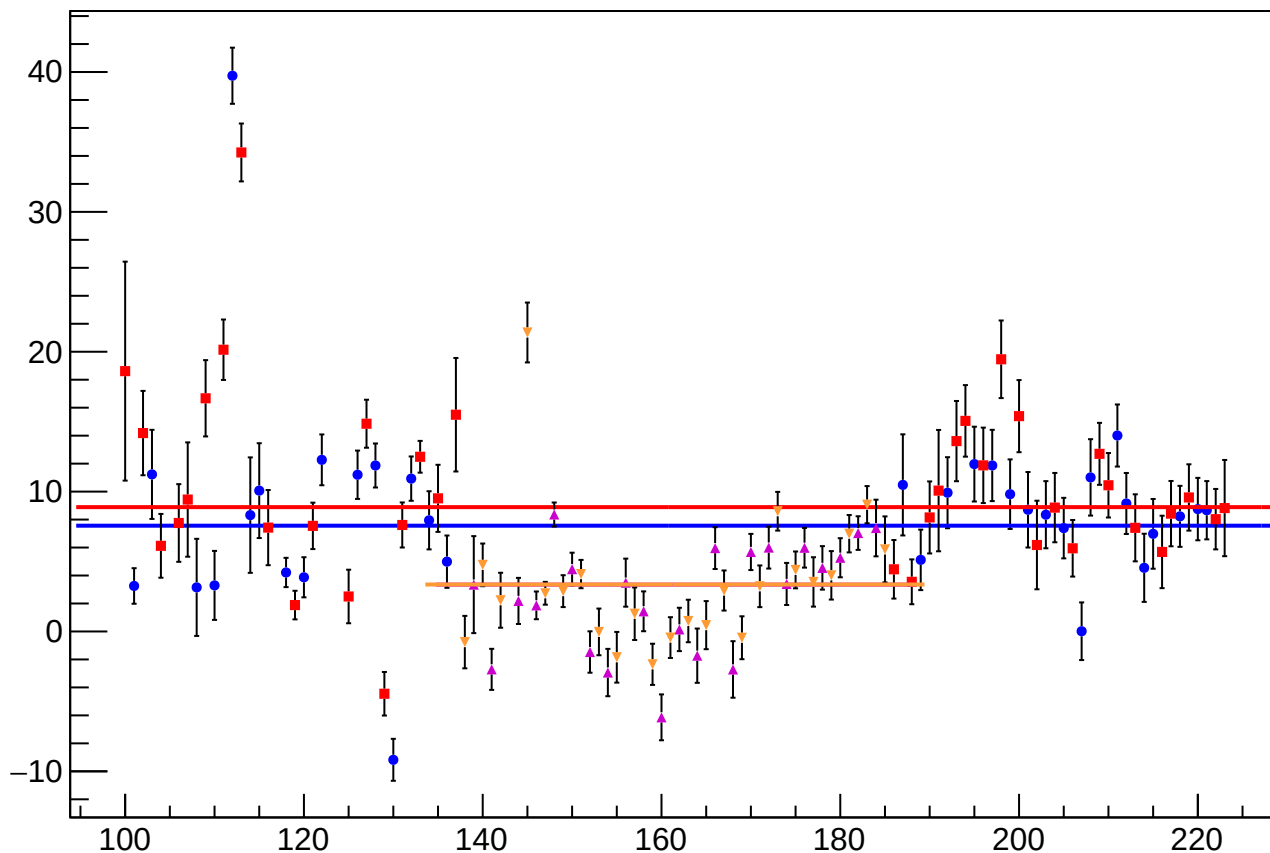


Right In: -60.320 ± 0.356 χ^2/NDF : 313.7/17
 Left Out: -72.138 ± 0.383 χ^2/NDF : 1121.3/23
 Right Out: -59.789 ± 0.358 χ^2/NDF : 487.8/19
 Left In: -71.534 ± 0.382 χ^2/NDF : 851.4/22

Left: -71.835 ± 0.270 χ^2/NDF : 1974.0/46
 Right: -60.056 ± 0.253 χ^2/NDF : 802.6/37
 In: -65.539 ± 0.260 χ^2/NDF : 1626.6/40
 Out: -65.555 ± 0.262 χ^2/NDF : 2163.8/43

All: -65.547 ± 0.185 χ^2/NDF : 3790.3/84

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.563 $\pm$ 0.346 χ^2/NDF : 477.2/33

Left Out: 3.357 $\pm$ 0.295 χ^2/NDF :167.7/23

Right Out: 8.890 $\pm$ 0.346 χ^2/NDF : 404.5/37

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

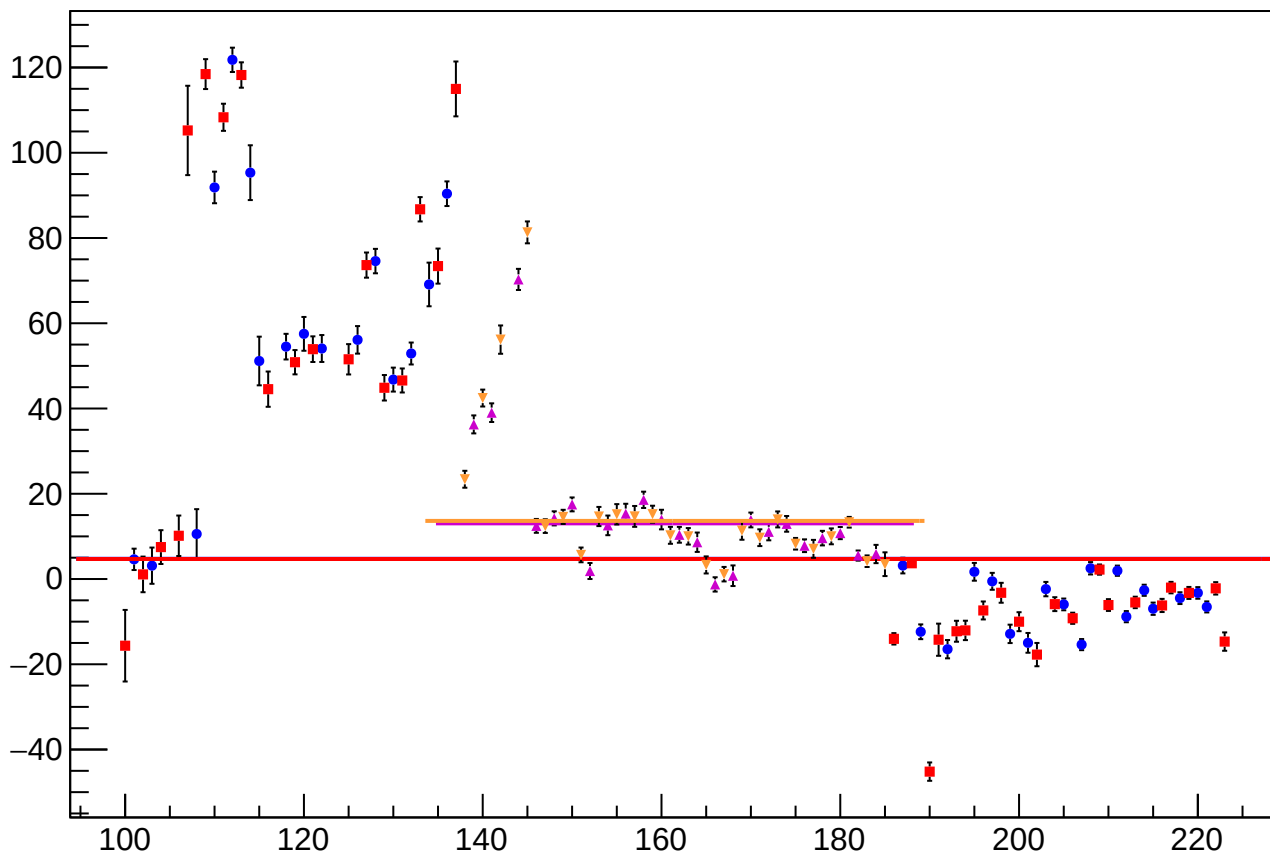
Right: 8.227 $\pm$ 0.245 χ^2/NDF : 889.1/71

In: 5.143 $\pm$ 0.226 χ^2/NDF :725.7/56

Out: 5.686 $\pm$ 0.224 χ^2/NDF :720.5/61

All: 5.417 $\pm$ 0.159 χ^2/NDF : 1449.1/118

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.738 $\pm$ 0.332 χ^2 /NDF: 6679.1/33

Left Out: 13.632 $\pm$ 0.382 χ^2 /NDF:1300.0/23

Right Out: 4.697 $\pm$ 0.326 χ^2 /NDF: 8314.8/37

Left In: 13.058 $\pm$ 0.380 χ^2 /NDF:1024.7/22

Left: 13.344 $\pm$ 0.269 χ^2 /NDF: 2325.9/46

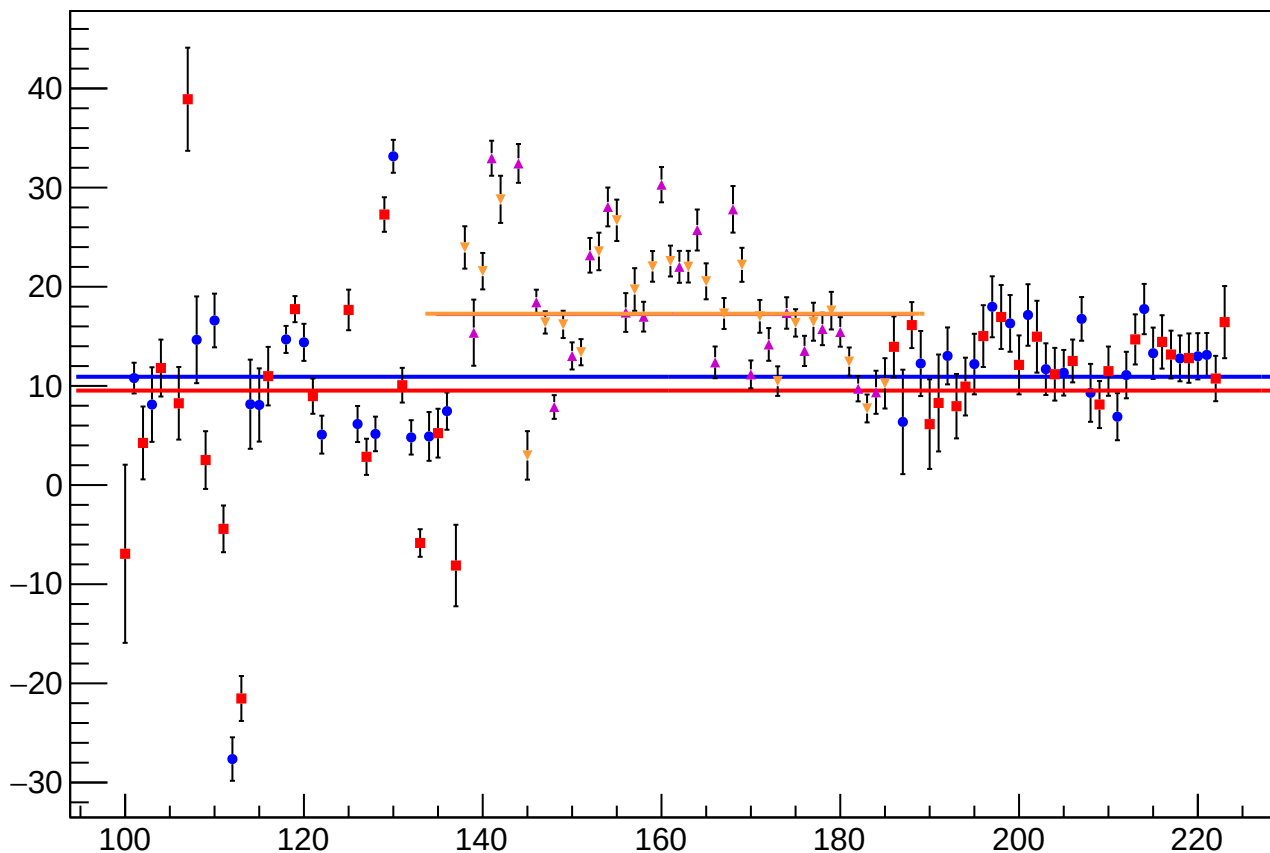
Right: 4.717 $\pm$ 0.232 χ^2 /NDF: 14993.8/71

In: 8.337 $\pm$ 0.250 χ^2 /NDF:7976.1/56

Out: 8.459 $\pm$ 0.248 χ^2 /NDF:9932.0/61

All: 8.398 $\pm$ 0.176 χ^2 /NDF: 17908.2/118

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.921 ± 0.393 $\chi^2/\text{NDF}: 590.4/33$

Left Out: 17.280 ± 0.337 $\chi^2/\text{NDF}: 243.9/23$

Right Out: 9.527 ± 0.397 $\chi^2/\text{NDF}: 623.8/37$

Left In: 17.245 ± 0.339 $\chi^2/\text{NDF}: 440.8/22$

Left: 17.262 ± 0.239 $\chi^2/\text{NDF}: 684.6/46$

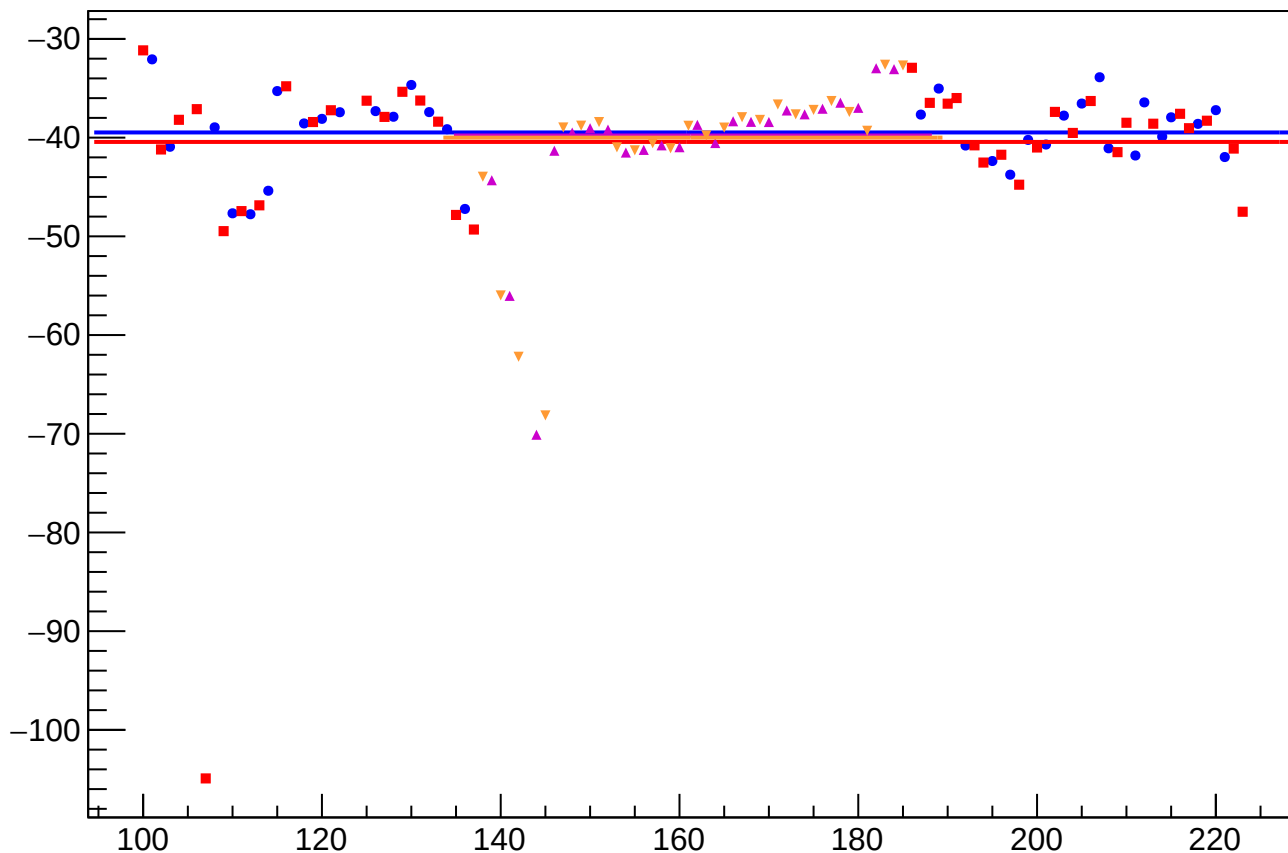
Right: 10.231 ± 0.280 $\chi^2/\text{NDF}: 1220.4/71$

In: 14.545 ± 0.257 $\chi^2/\text{NDF}: 1179.4/56$

Out: 14.036 ± 0.257 $\chi^2/\text{NDF}: 1089.0/61$

All: 14.291 ± 0.182 $\chi^2/\text{NDF}: 2270.3/118$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.475 ± 0.020 $\chi^2/\text{NDF}: 38545.9/33$

Left Out: -39.999 ± 0.016 $\chi^2/\text{NDF}: 172263.8/23$

Right Out: -40.436 ± 0.020 $\chi^2/\text{NDF}: 108871.3/37$

Left In: -39.785 ± 0.016 $\chi^2/\text{NDF}: 144494.5/22$

Left: -39.891 ± 0.011 $\chi^2/\text{NDF}: 316851.8/46$

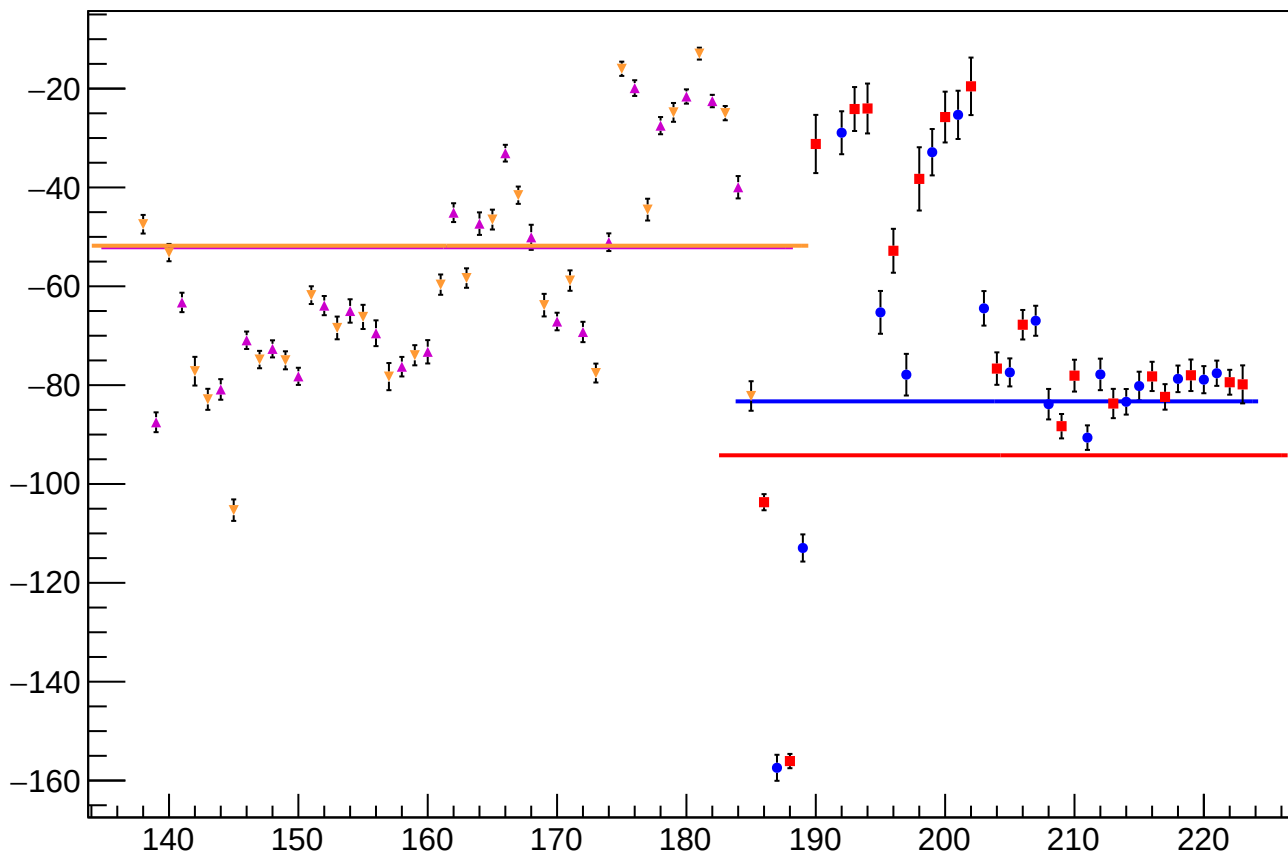
Right: -39.958 ± 0.014 $\chi^2/\text{NDF}: 148600.0/71$

In: -39.666 ± 0.012 $\chi^2/\text{NDF}: 183191.1/56$

Out: -40.169 ± 0.012 $\chi^2/\text{NDF}: 281434.3/61$

All: -39.917 ± 0.009 $\chi^2/\text{NDF}: 465465.6/118$

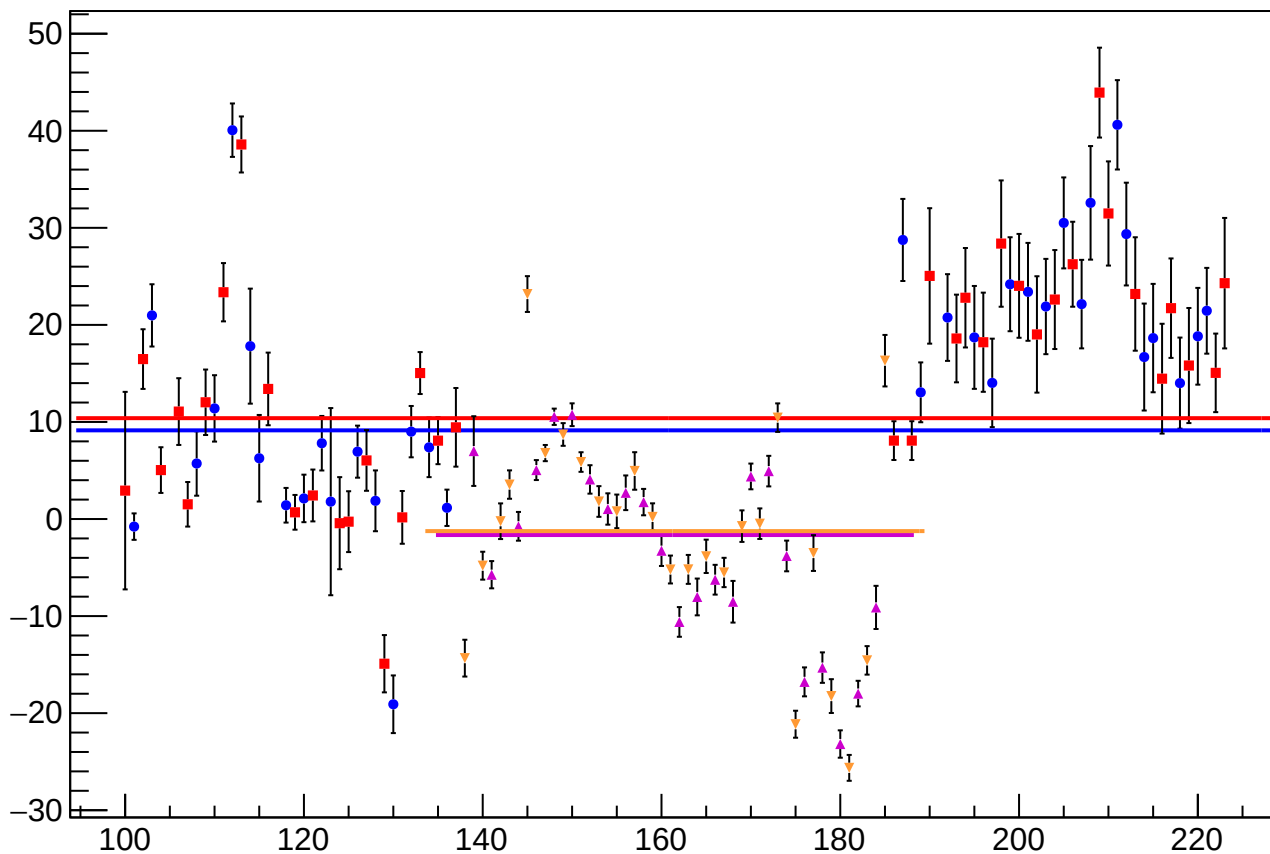
reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -83.281 ± 0.726 $\chi^2/\text{NDF}: 1427.2/17$
 Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$
 Right Out: -94.195 ± 0.662 $\chi^2/\text{NDF}: 3200.5/18$
 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: -89.238 ± 0.489 $\chi^2/\text{NDF}: 4751.2/36$
 In: -59.055 ± 0.343 $\chi^2/\text{NDF}: 6142.0/40$
 Out: -62.409 ± 0.331 $\chi^2/\text{NDF}: 10442.1/43$
 All: -60.788 ± 0.238 $\chi^2/\text{NDF}: 16633.6/84$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.136 ± 0.546 $\chi^2/\text{NDF}: 522.0/34$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 10.390 ± 0.537 $\chi^2/\text{NDF}: 428.1/37$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

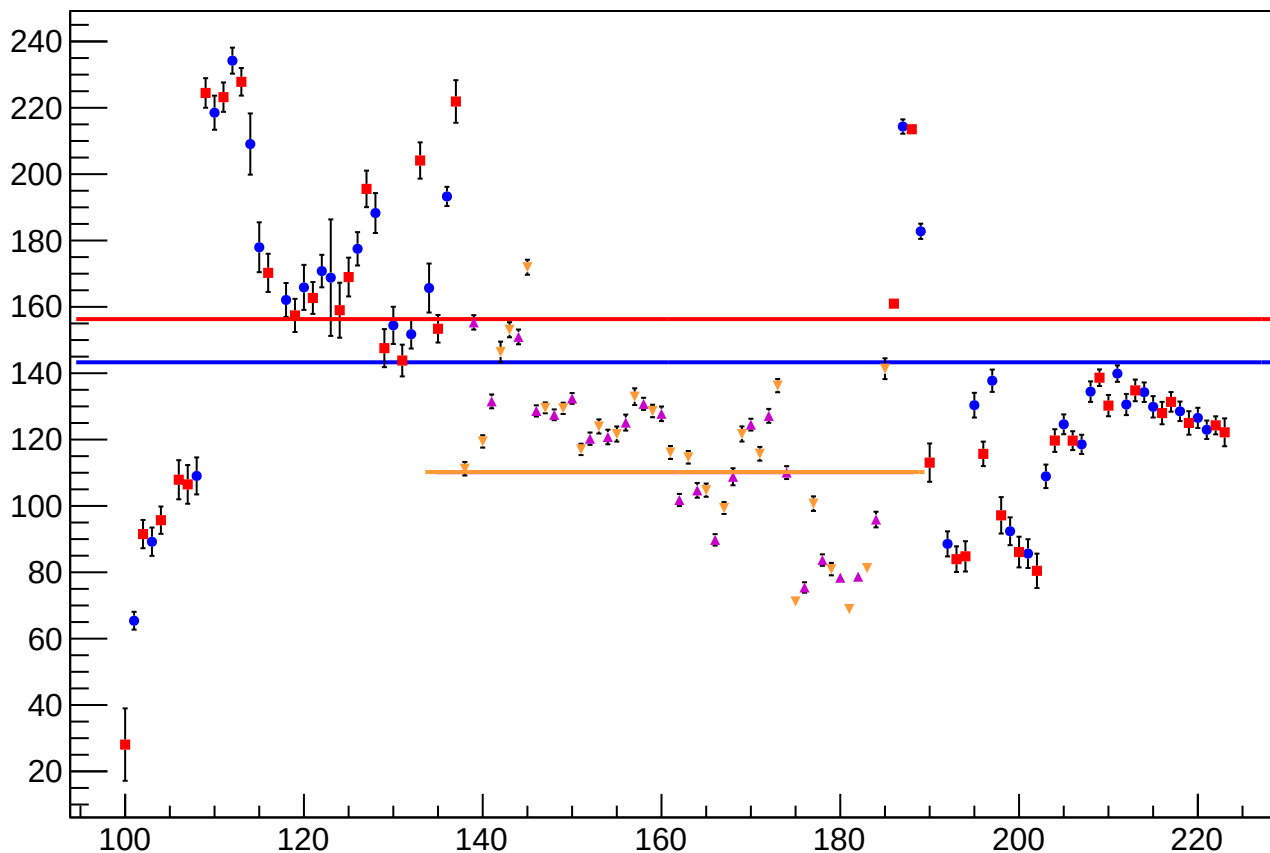
Right: 9.773 ± 0.383 $\chi^2/\text{NDF}: 952.7/72$

In: 0.854 ± 0.263 $\chi^2/\text{NDF}: 1914.0/57$

Out: 1.409 ± 0.256 $\chi^2/\text{NDF}: 2113.6/62$

All: 1.139 ± 0.184 $\chi^2/\text{NDF}: 4029.8/120$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 143.293 $\pm$ 0.604 χ^2 /NDF: 4636.5/34

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF:4593.7/24

Right Out: 156.312 $\pm$ 0.541 χ^2 /NDF: 6380.5/37

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

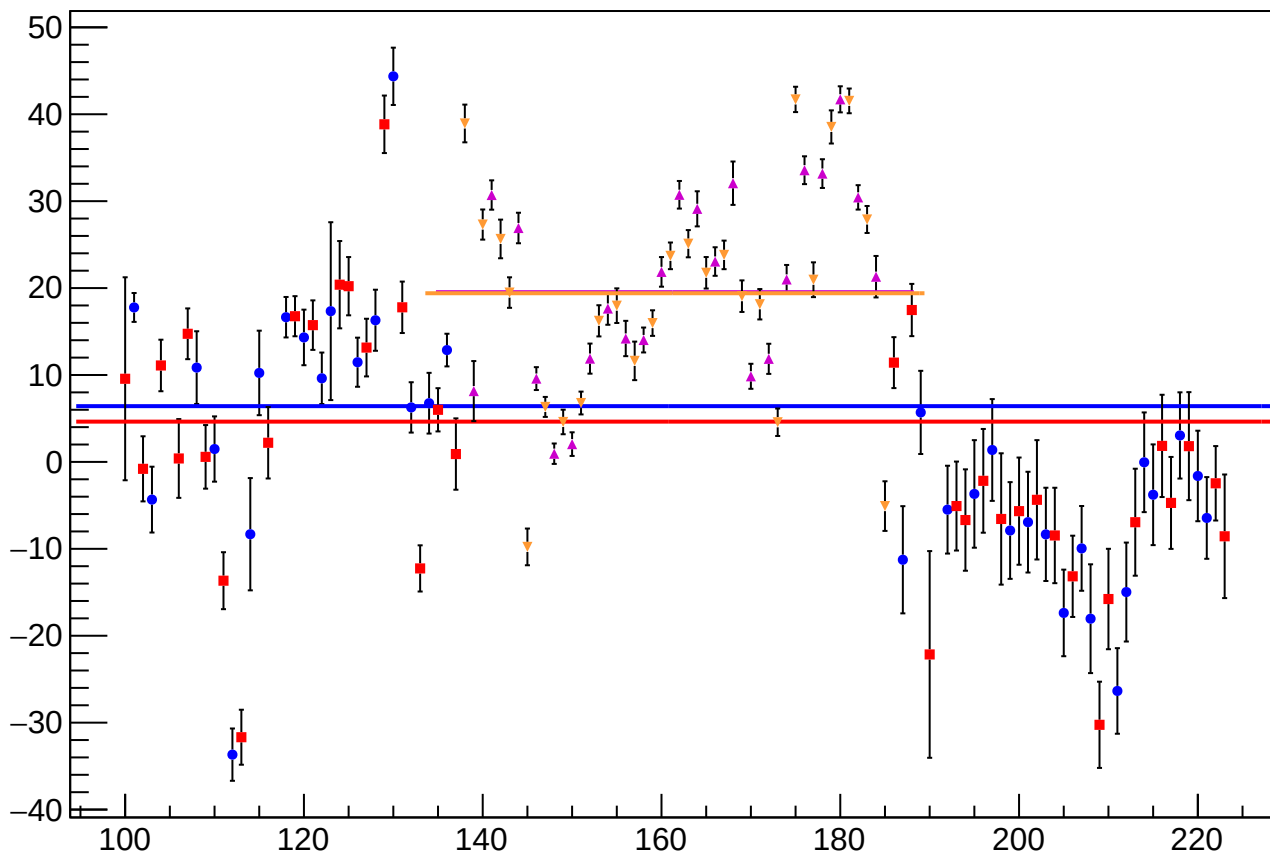
Right: 150.521 $\pm$ 0.403 χ^2 /NDF: 11274.7/72

In: 119.771 $\pm$ 0.325 χ^2 /NDF:10473.4/57

Out: 125.562 $\pm$ 0.312 χ^2 /NDF:15822.0/62

All: 122.787 $\pm$ 0.225 χ^2 /NDF: 26460.4/120

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.416 $\pm$ 0.626 χ^2/NDF : 583.3/34

Left Out: 19.405 $\pm$ 0.335 χ^2/NDF :1453.4/24

Right Out: 4.635 $\pm$ 0.630 χ^2/NDF : 572.9/37

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

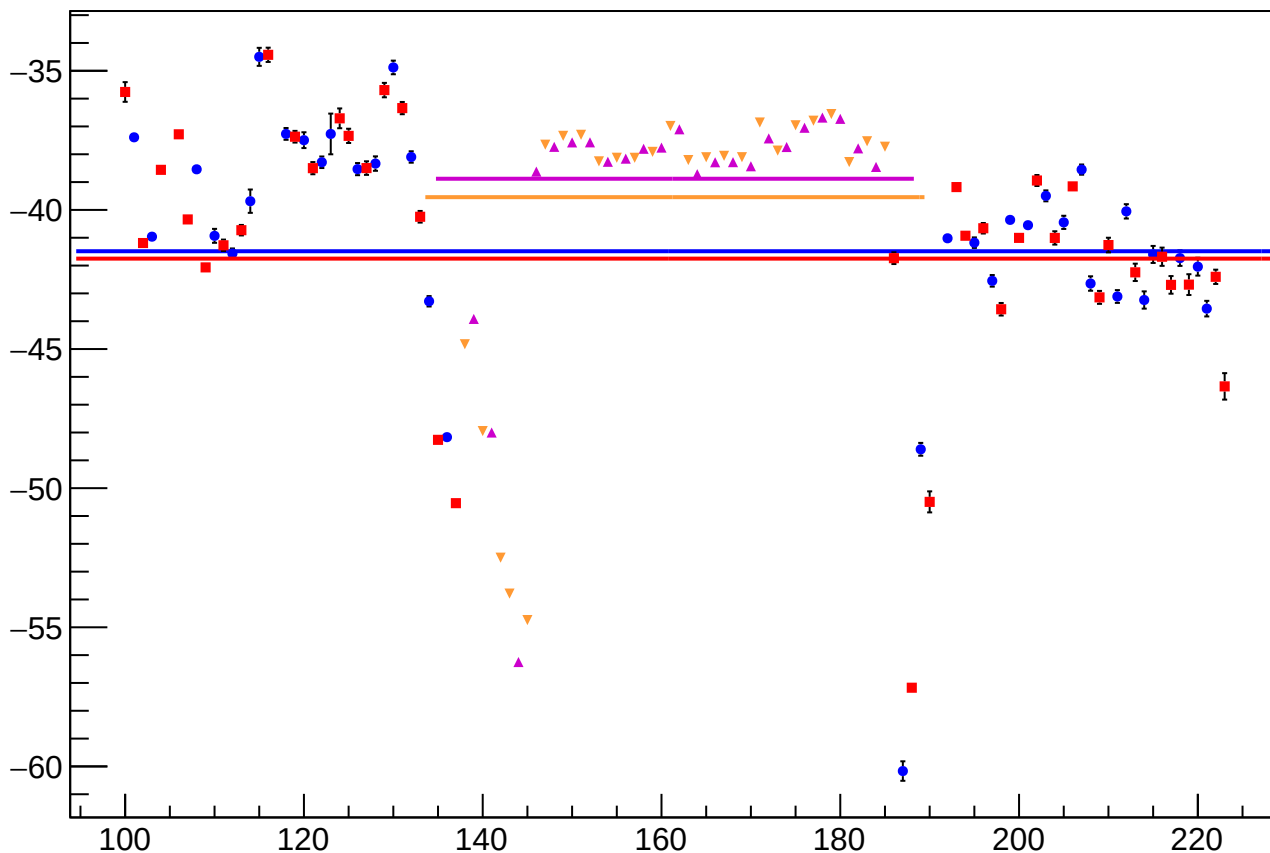
Right: 5.531 $\pm$ 0.444 χ^2/NDF : 1160.3/72

In: 16.511 $\pm$ 0.300 χ^2/NDF :2102.3/57

Out: 16.154 $\pm$ 0.296 χ^2/NDF :2455.0/62

All: 16.330 $\pm$ 0.211 χ^2/NDF : 4558.0/120

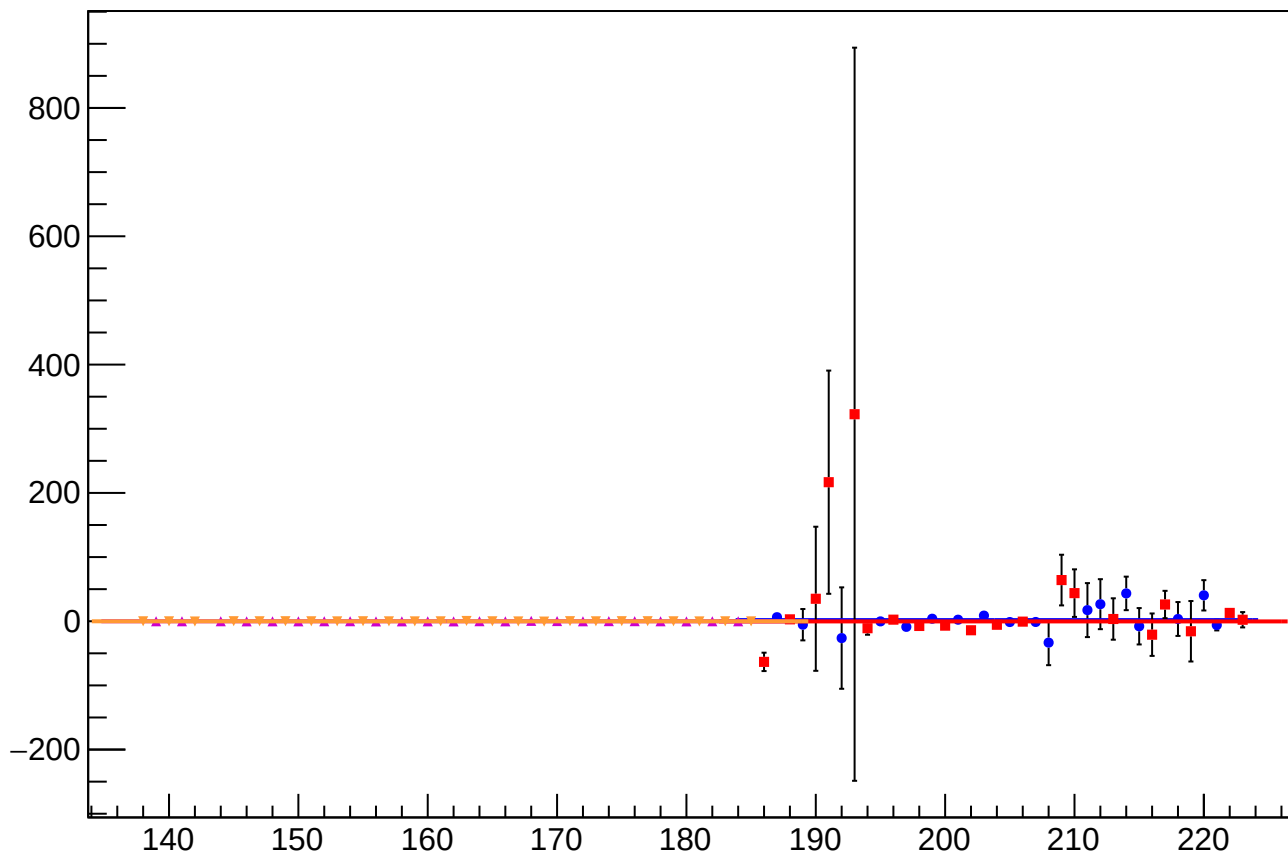
reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.485 ± 0.031 $\chi^2/\text{NDF}: 17015.8/34$
 Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$
 Right Out: -41.750 ± 0.031 $\chi^2/\text{NDF}: 23230.8/37$
 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: -41.618 ± 0.022 $\chi^2/\text{NDF}: 40283.7/72$
 In: -39.421 ± 0.014 $\chi^2/\text{NDF}: 76025.8/57$
 Out: -39.999 ± 0.014 $\chi^2/\text{NDF}: 119338.5/62$
 All: -39.712 ± 0.010 $\chi^2/\text{NDF}: 196210.4/120$

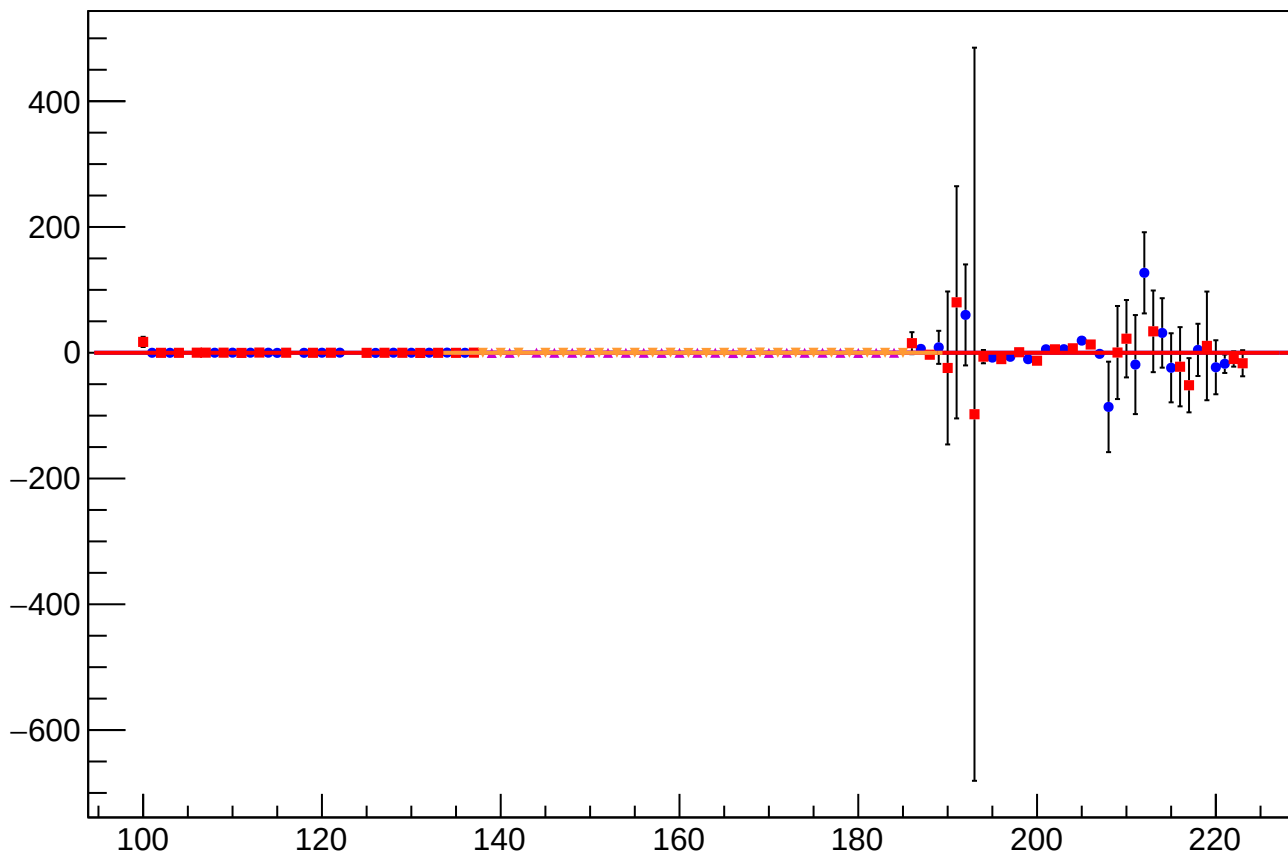
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.779 $\pm$ 1.498 χ^2 /NDF: 19.0/17
 Left Out: -0.089 $\pm$ 0.022 χ^2 /NDF:39.7/23
 Right Out: -0.263 $\pm$ 1.380 χ^2 /NDF: 42.0/19
 Left In: -0.026 $\pm$ 0.022 χ^2 /NDF:33.3/22

Left: -0.057 $\pm$ 0.016 χ^2 /NDF: 77.1/46
 Right: 0.674 $\pm$ 1.015 χ^2 /NDF: 62.0/37
 In: -0.025 $\pm$ 0.022 χ^2 /NDF:53.7/40
 Out: -0.089 $\pm$ 0.022 χ^2 /NDF:81.8/43
 All: -0.057 $\pm$ 0.016 χ^2 /NDF: 139.6/84

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 39.5/33

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 44.4/37

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

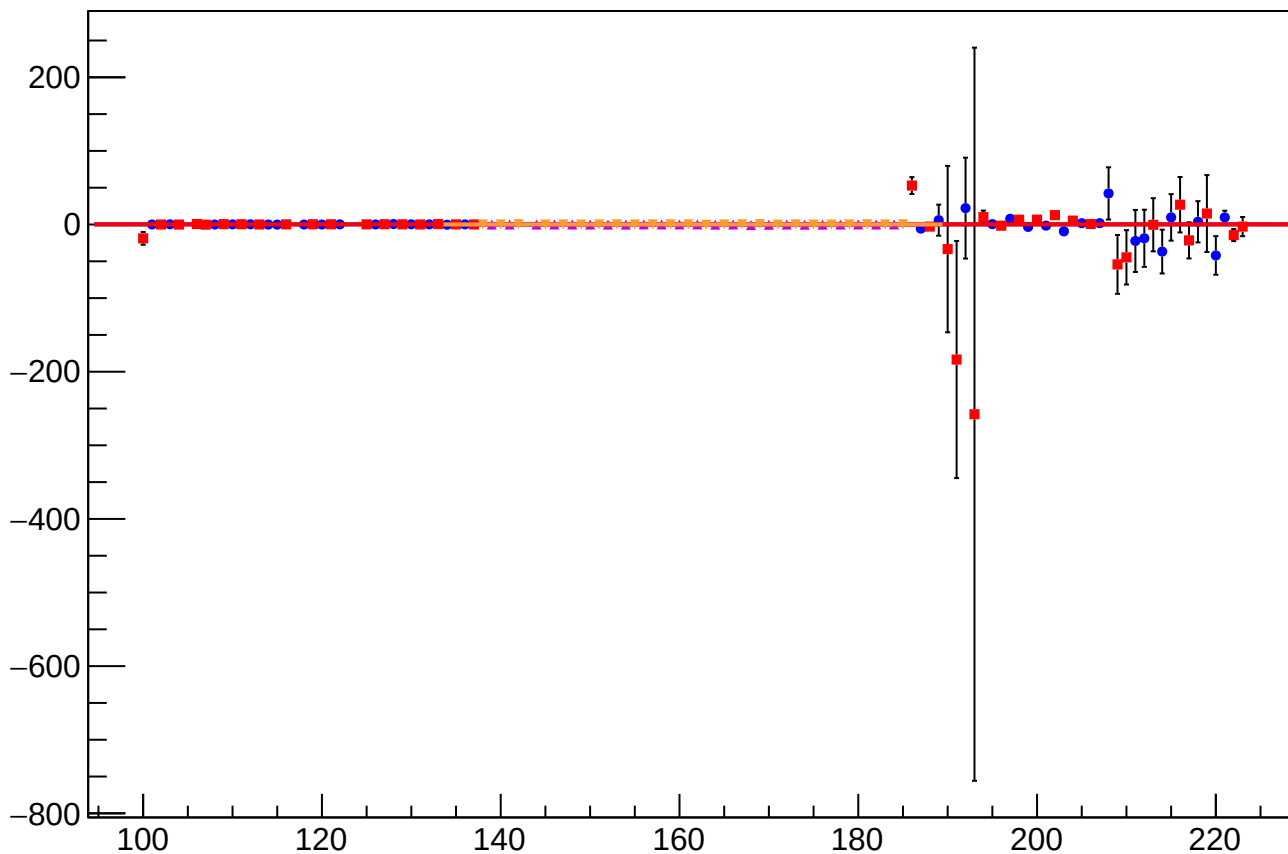
Right: -0.025 ± 0.020 χ^2/NDF : 85.3/71

In: -0.038 ± 0.015 χ^2/NDF : 73.5/56

Out: -0.073 ± 0.015 χ^2/NDF : 71.0/61

All: -0.056 ± 0.011 χ^2/NDF : 147.2/118

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 34.4/33

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.235 $\pm$ 0.054 χ^2 /NDF: 64.9/37

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

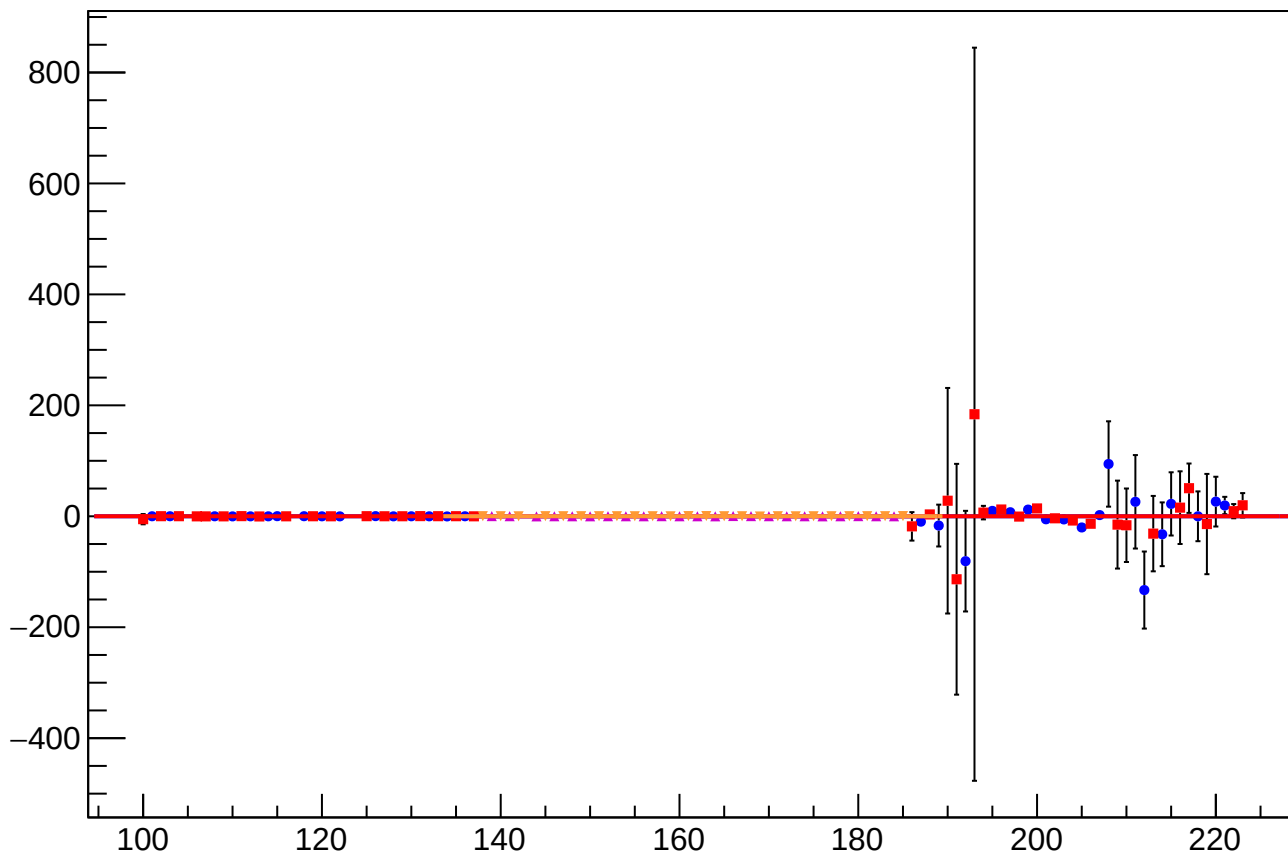
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 100.1/71

In: 0.043 $\pm$ 0.020 χ^2 /NDF:77.1/56

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:110.3/61

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 191.7/118

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 $\chi^2/\text{NDF}: 41.1/33$

Left Out: 0.105 ± 0.020 $\chi^2/\text{NDF}: 29.5/23$

Right Out: 0.057 ± 0.034 $\chi^2/\text{NDF}: 37.6/37$

Left In: 0.069 ± 0.020 $\chi^2/\text{NDF}: 31.3/22$

Left: 0.088 ± 0.014 $\chi^2/\text{NDF}: 62.5/46$

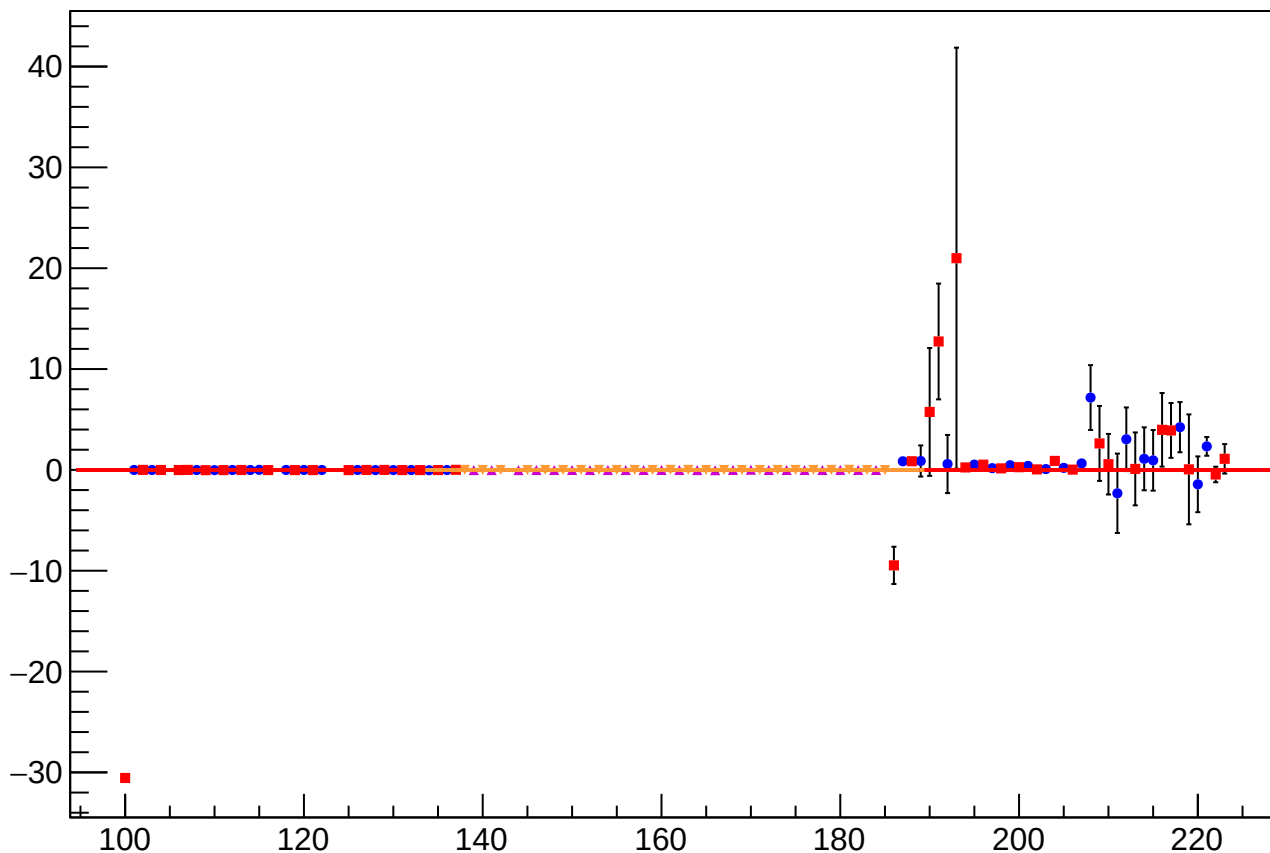
Right: 0.024 ± 0.024 $\chi^2/\text{NDF}: 80.5/71$

In: 0.049 ± 0.017 $\chi^2/\text{NDF}: 76.3/56$

Out: 0.093 ± 0.017 $\chi^2/\text{NDF}: 68.6/61$

All: 0.071 ± 0.012 $\chi^2/\text{NDF}: 148.3/118$

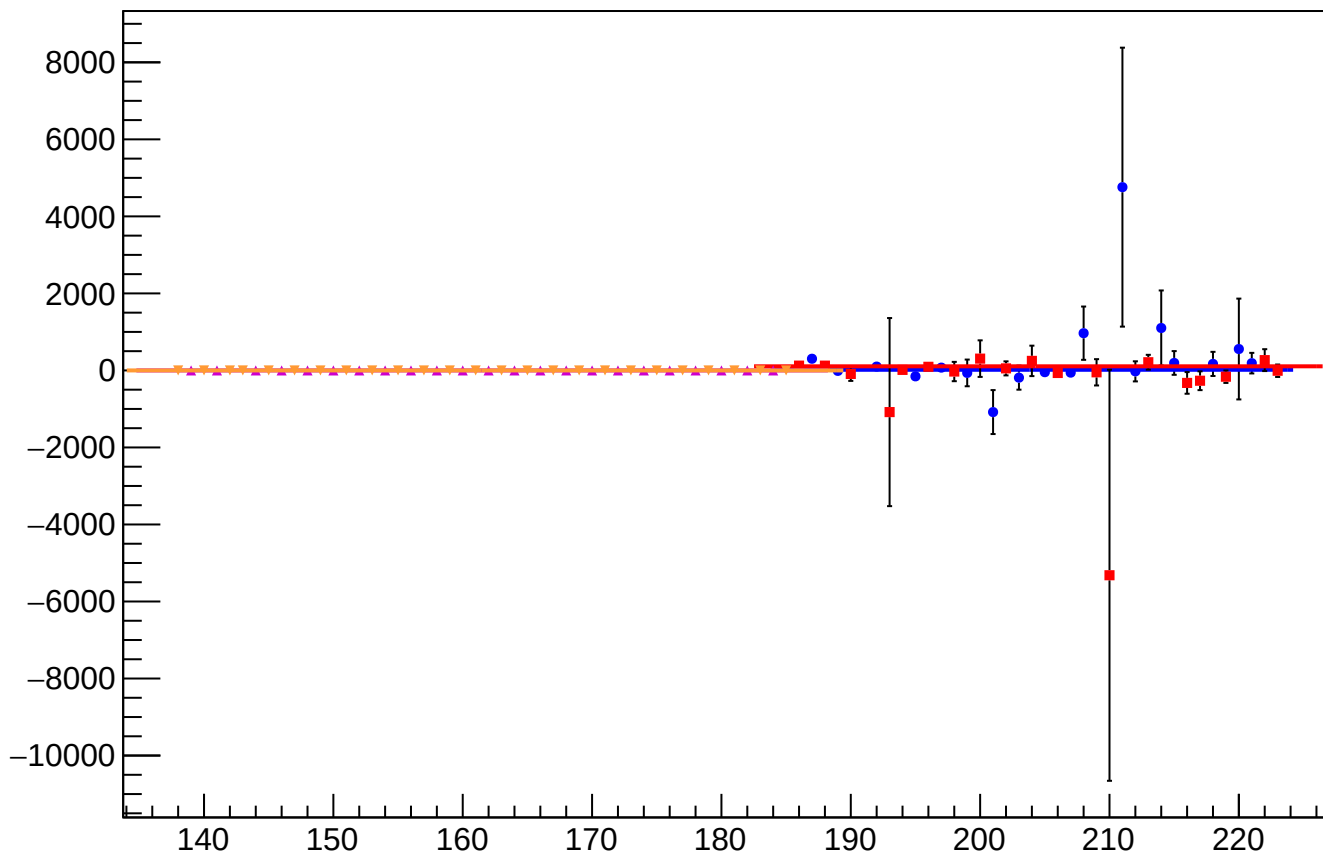
reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012+/-0.002 χ^2/NDF : 57.7/33
 Left Out: -0.008+/-0.001 χ^2/NDF :30.1/23
 Right Out: -0.012+/-0.002 χ^2/NDF : 11959.0/37
 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 : 12016.7/71
 In: -0.009+/-0.001 χ^2/NDF :100.6/56
 Out: -0.009+/-0.001 χ^2/NDF :11992.9/61
 All: -0.009+/-0.001 χ^2/NDF : 12093.8/118

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 16.678+/-25.598 χ^2/NDF : 26.4/17

Left Out: 0.017+/-0.027 χ^2/NDF :30.9/24

Right Out: 106.855+/-15.867 χ^2/NDF : 17.3/18

Left In: 0.002+/-0.028 χ^2/NDF :29.0/22

Left: 0.010+/-0.019 χ^2/NDF : 60.1/47

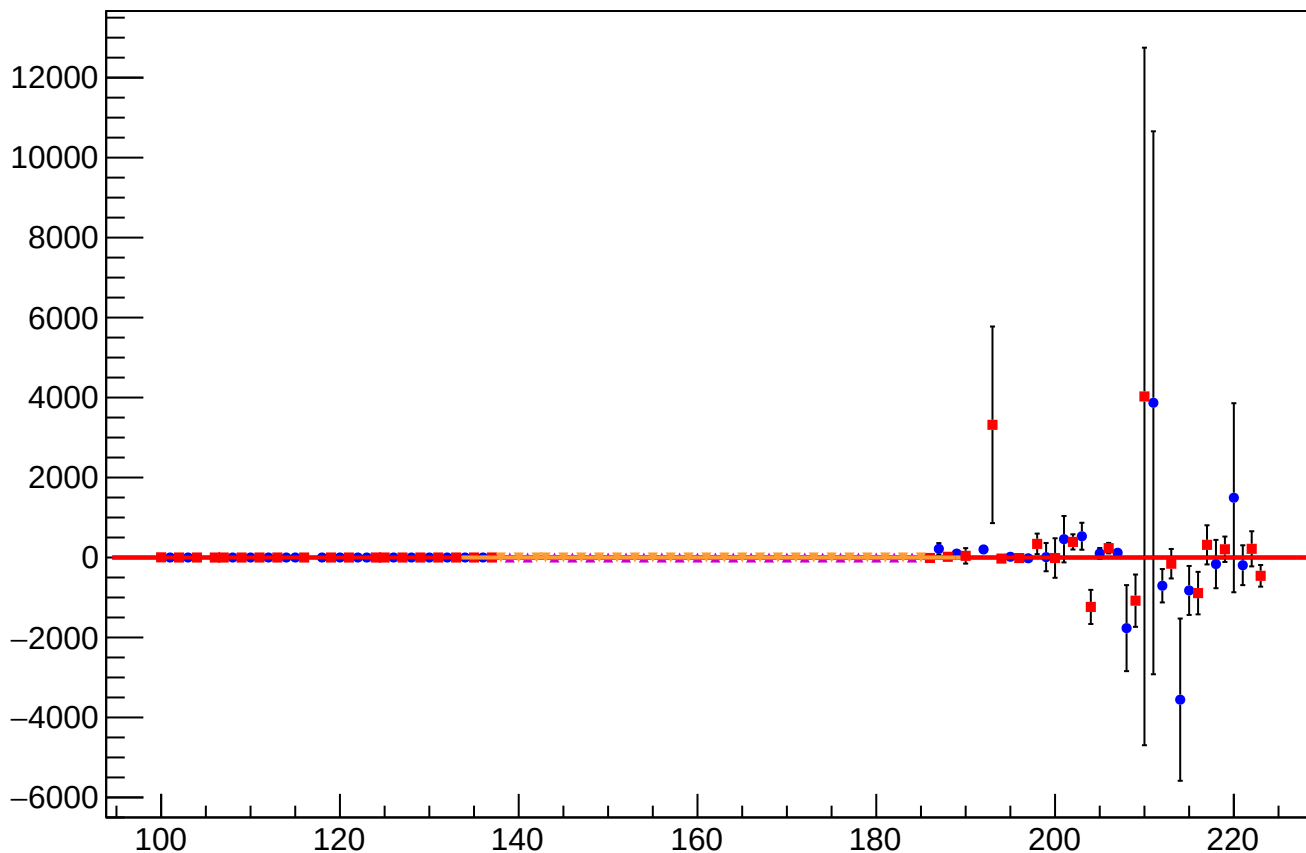
Right: 81.823+/-13.487 χ^2/NDF : 52.7/36

In: 0.002+/-0.028 χ^2/NDF :55.8/40

Out: 0.018+/-0.027 χ^2/NDF :93.6/43

All: 0.010+/-0.019 χ^2/NDF : 149.6/84

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 χ^2/NDF : 50.4/34

Left Out: -0.060 ± 0.021 χ^2/NDF : 24.6/24

Right Out: -0.120 ± 0.039 χ^2/NDF : 48.1/37

Left In: -0.071 ± 0.022 χ^2/NDF : 49.0/22

Left: -0.065 ± 0.015 χ^2/NDF : 73.7/47

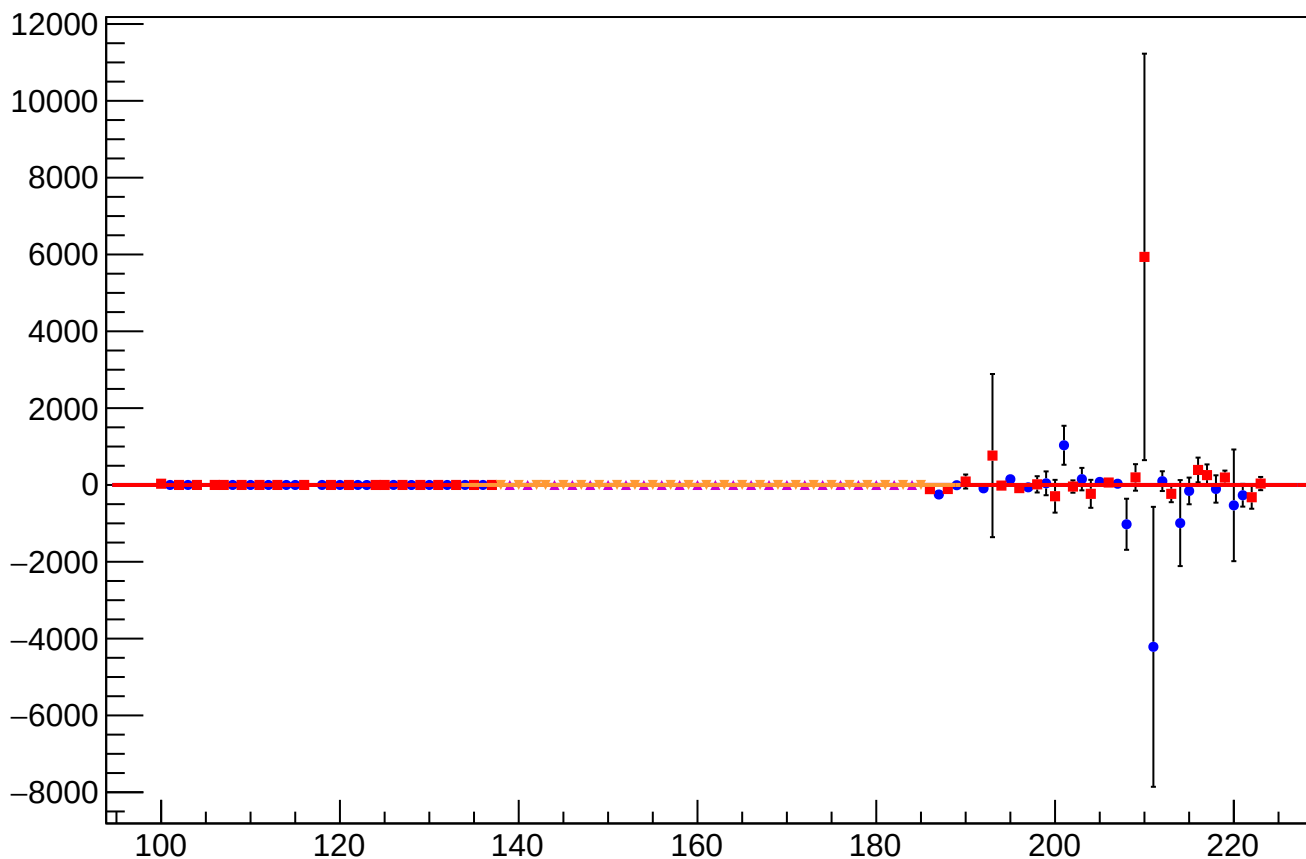
Right: -0.068 ± 0.027 χ^2/NDF : 101.9/72

In: -0.058 ± 0.019 χ^2/NDF : 100.7/57

Out: -0.073 ± 0.019 χ^2/NDF : 74.6/62

All: -0.066 ± 0.013 χ^2/NDF : 175.6/120

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135+/-0.067 χ^2 /NDF: 52.0/34

Left Out: -0.018+/-0.027 χ^2 /NDF: 29.0/24

Right Out: -0.167+/-0.071 χ^2 /NDF: 86.5/37

Left In: -0.033+/-0.027 χ^2 /NDF: 28.5/22

Left: -0.025+/-0.019 χ^2 /NDF: 57.6/47

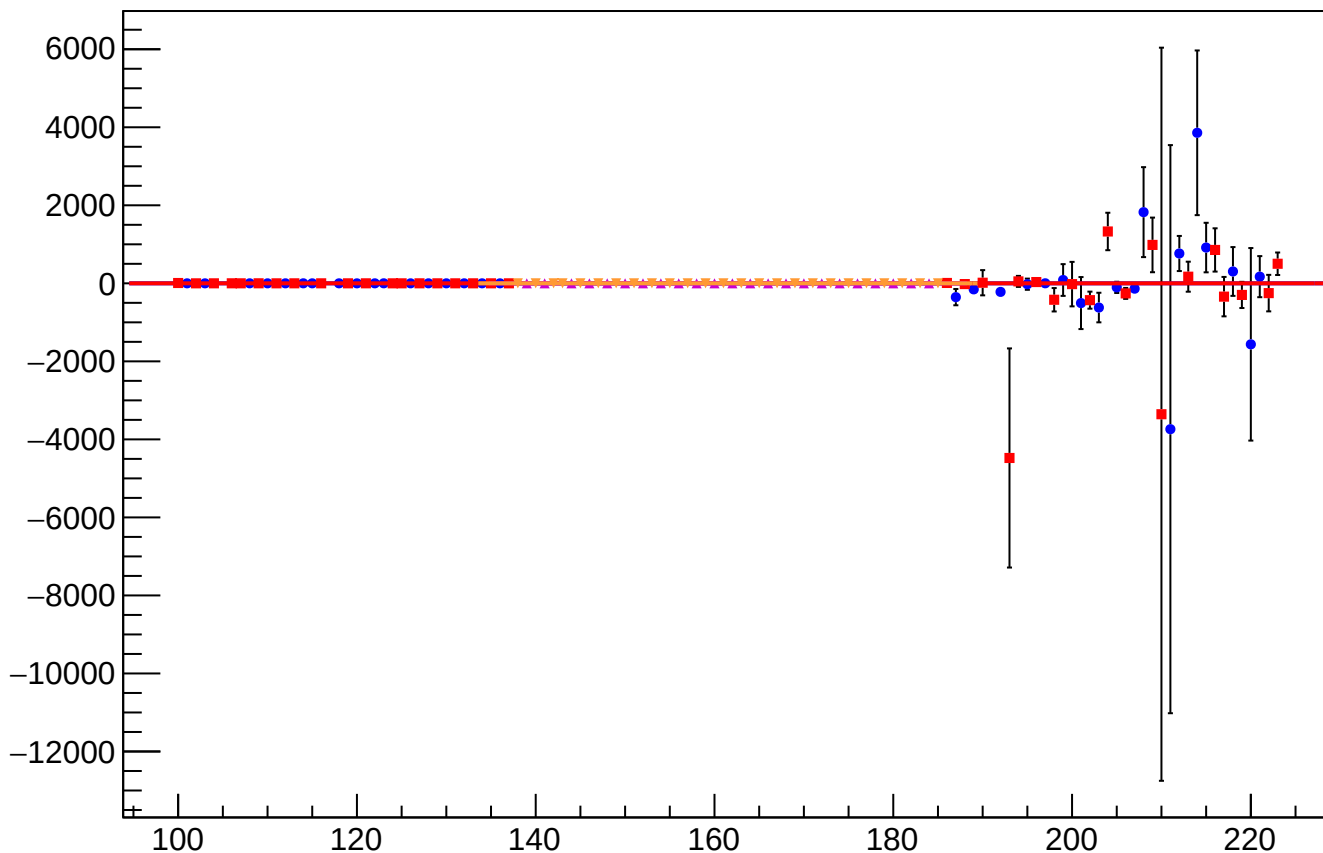
Right: -0.150+/-0.049 χ^2 /NDF: 138.6/72

In: -0.047+/-0.025 χ^2 /NDF: 82.5/57

Out: -0.037+/-0.025 χ^2 /NDF: 119.3/62

All: -0.042+/-0.018 χ^2 /NDF: 201.9/120

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 49.9/34

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 45.9/37

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

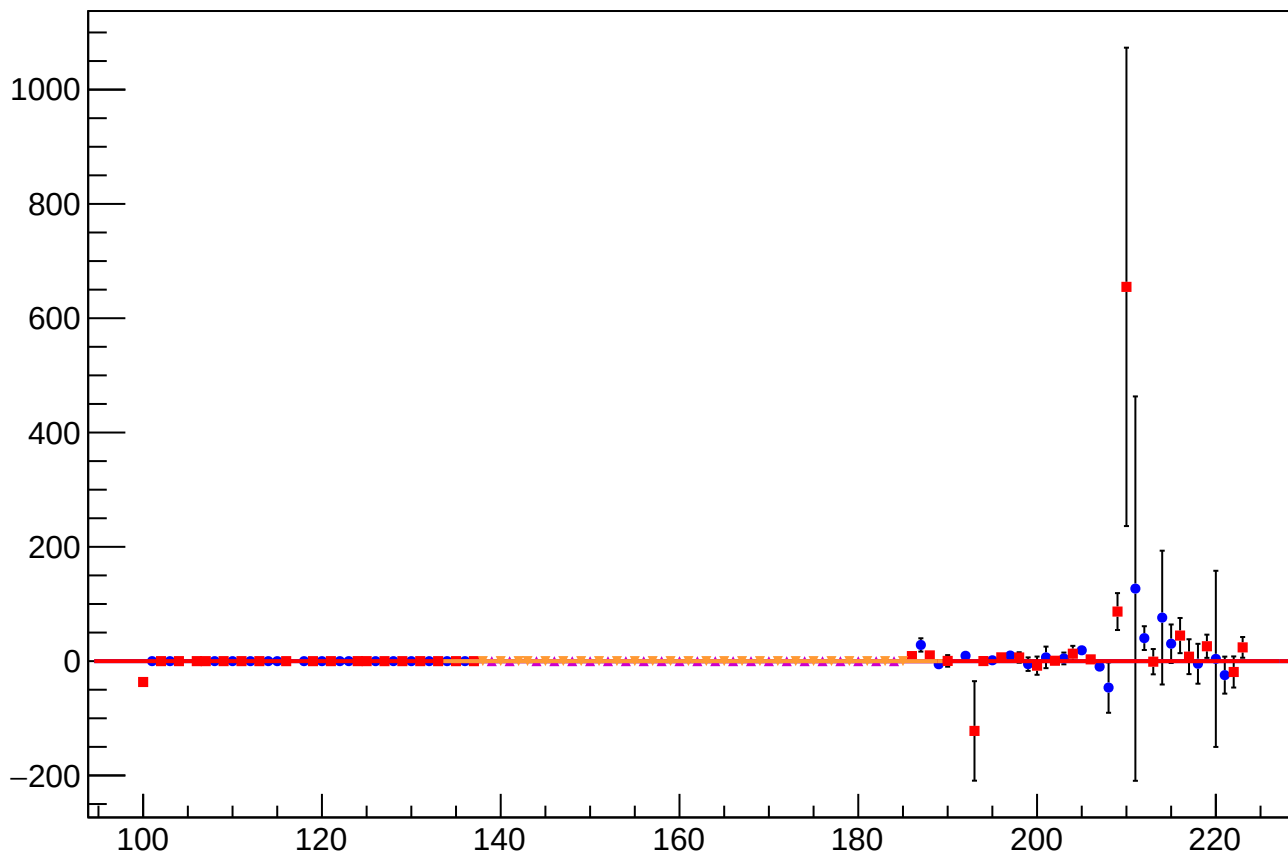
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 99.8/72

In: 0.056 $\pm$ 0.021 χ^2 /NDF:102.8/57

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:73.0/62

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 176.4/120

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001+/-0.002 χ^2/NDF : 69.8/34

Left Out: 0.008+/-0.001 χ^2/NDF : 26.3/24

Right Out: 0.001+/-0.002 χ^2/NDF : 10490.1/37

Left In: 0.009+/-0.001 χ^2/NDF : 15.0/22

Left: 0.009+/-0.001 χ^2/NDF : 41.4/47

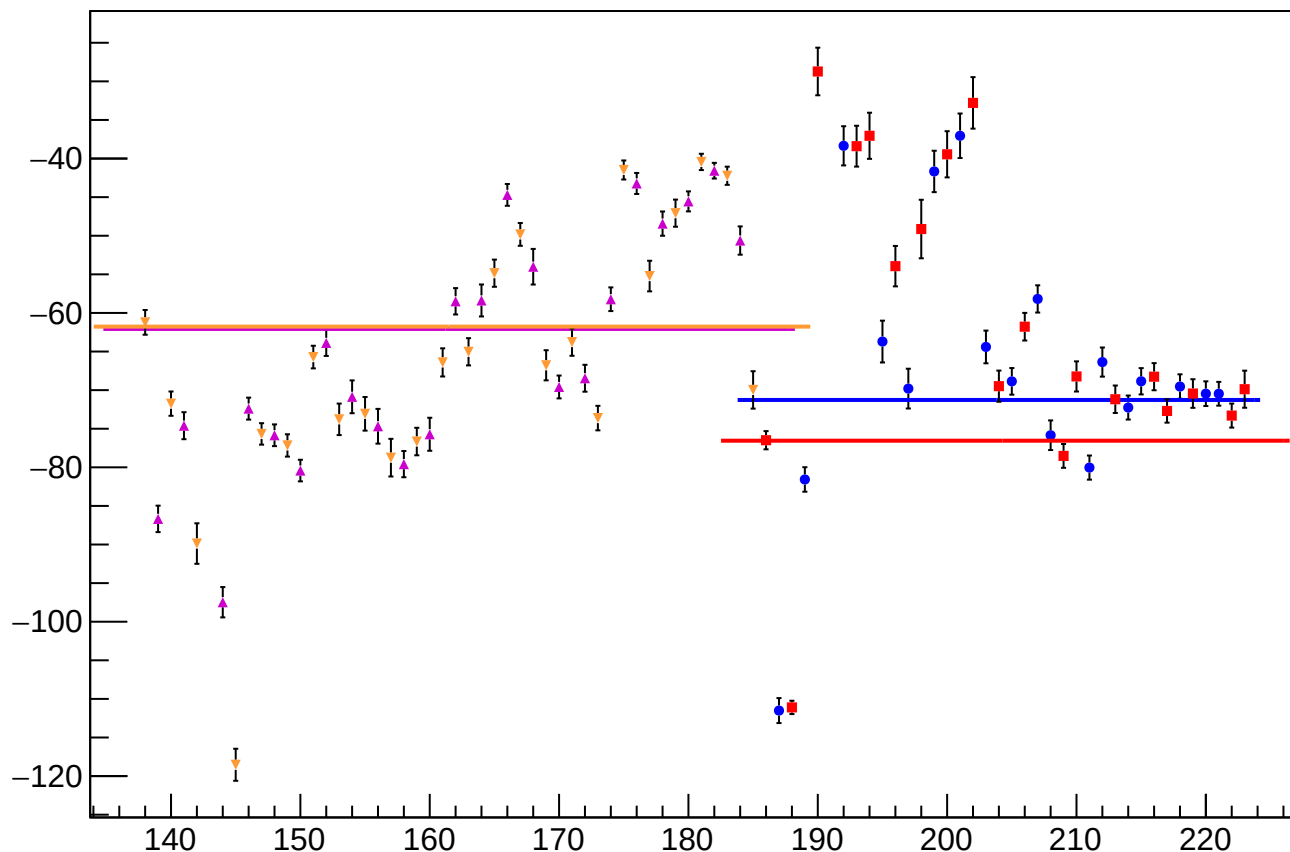
Right: 0.001+/-0.002 χ^2/NDF : 10559.9/72

In: 0.007+/-0.001 χ^2/NDF : 94.2/57

Out: 0.007+/-0.001 χ^2/NDF : 10525.3/62

All: 0.007+/-0.001 χ^2/NDF : 10619.7/120

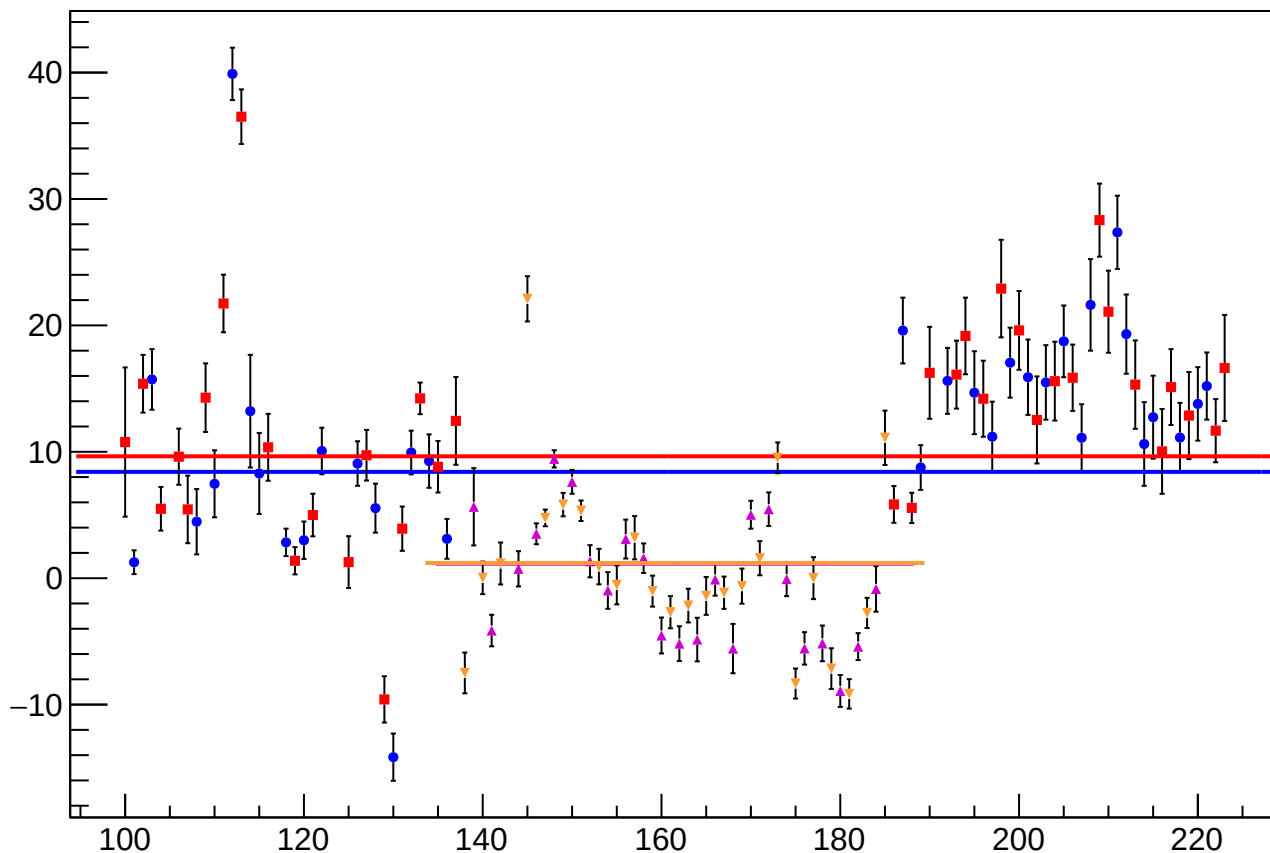
reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.273 ± 0.435 $\chi^2/\text{NDF}: 1215.4/17$
 Left Out: -61.771 ± 0.334 $\chi^2/\text{NDF}: 2504.9/23$
 Right Out: -76.551 ± 0.407 $\chi^2/\text{NDF}: 2835.9/18$
 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: -74.085 ± 0.297 $\chi^2/\text{NDF}: 4129.9/36$
 In: -65.466 ± 0.264 $\chi^2/\text{NDF}: 3690.1/40$
 Out: -67.714 ± 0.258 $\chi^2/\text{NDF}: 6128.8/42$
 All: -66.615 ± 0.185 $\chi^2/\text{NDF}: 9855.9/83$

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.413 ± 0.359 $\chi^2/\text{NDF}: 650.5/33$

Left Out: 1.198 ± 0.253 $\chi^2/\text{NDF}: 526.3/23$

Right Out: 9.643 ± 0.359 $\chi^2/\text{NDF}: 555.0/36$

Left In: 1.146 ± 0.255 $\chi^2/\text{NDF}: 462.9/22$

Left: 1.172 ± 0.180 $\chi^2/\text{NDF}: 989.3/46$

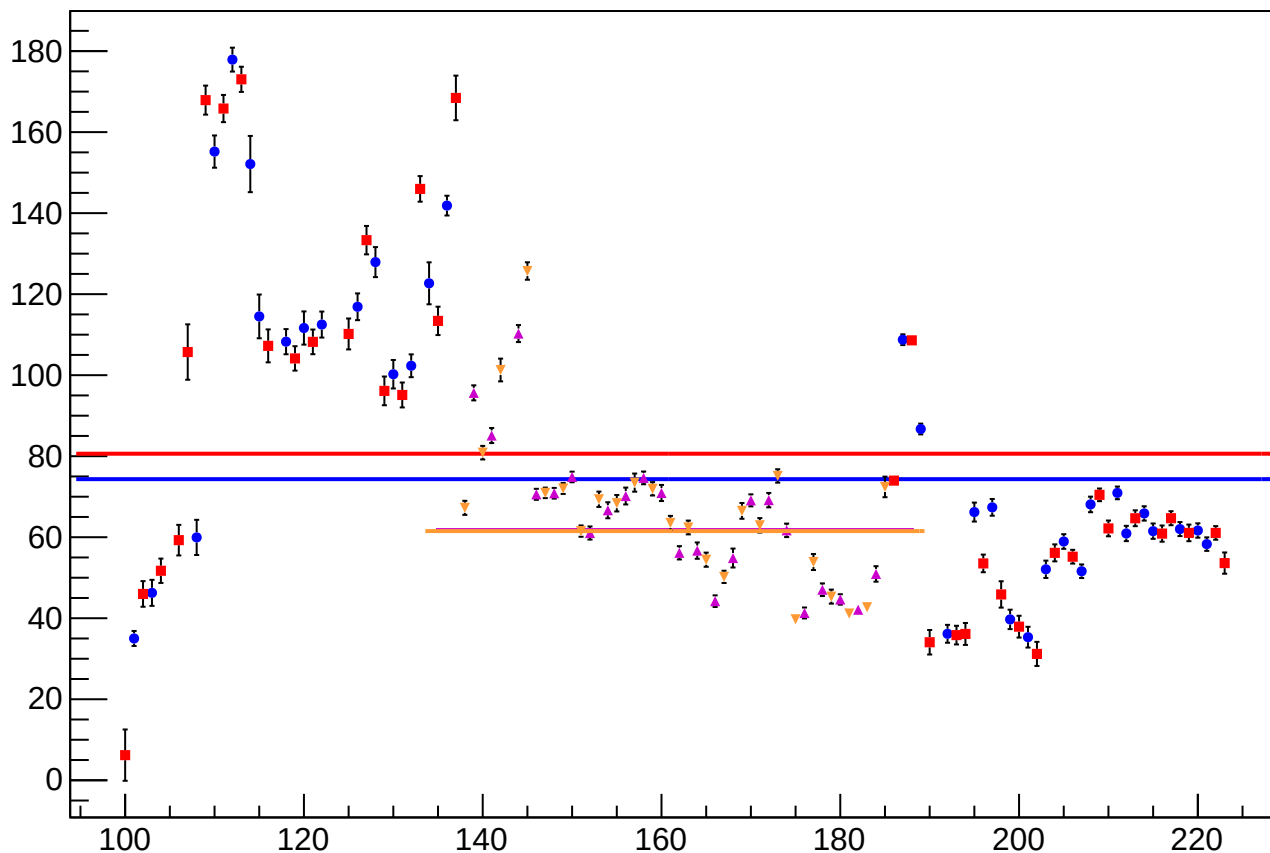
Right: 9.029 ± 0.254 $\chi^2/\text{NDF}: 1211.4/70$

In: 3.585 ± 0.208 $\chi^2/\text{NDF}: 1385.3/56$

Out: 3.998 ± 0.206 $\chi^2/\text{NDF}: 1452.0/60$

All: 3.793 ± 0.147 $\chi^2/\text{NDF}: 2839.3/117$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 74.333+/-0.377 χ^2/NDF : 6302.5/33

Left Out: 61.512+/-0.332 χ^2/NDF : 2606.0/23

Right Out: 80.613+/-0.344 χ^2/NDF : 8227.6/36

Left In: 61.762+/-0.330 χ^2/NDF : 2418.2/22

Left: 61.638+/-0.234 χ^2/NDF : 5024.5/46

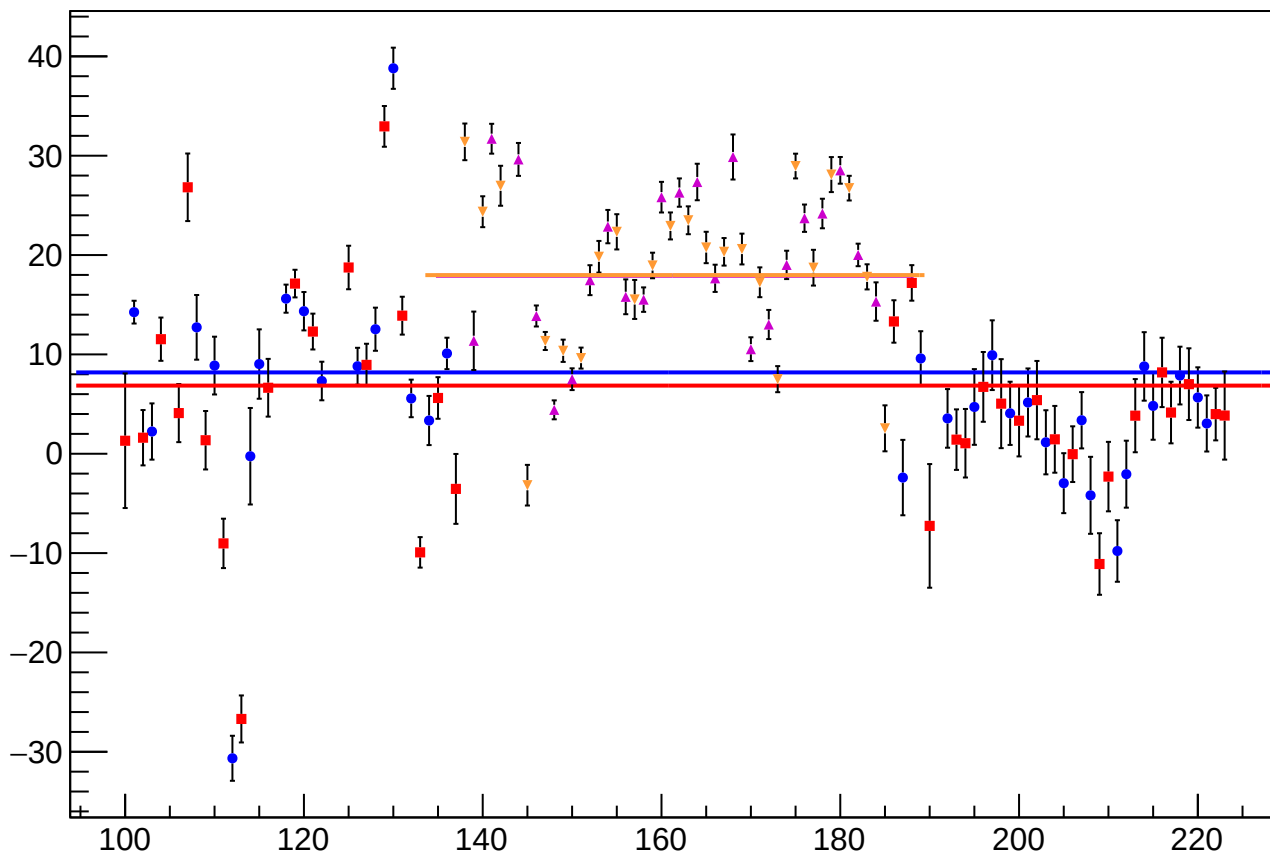
Right: 77.760+/-0.254 χ^2/NDF : 14681.5/70

In: 67.214+/-0.248 χ^2/NDF : 9350.2/56

Out: 70.731+/-0.239 χ^2/NDF : 12428.2/60

All: 69.040+/-0.172 χ^2/NDF : 21882.5/117

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.187 ± 0.416 χ^2/NDF : 692.1/33

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 6.860 ± 0.423 χ^2/NDF : 795.2/36

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

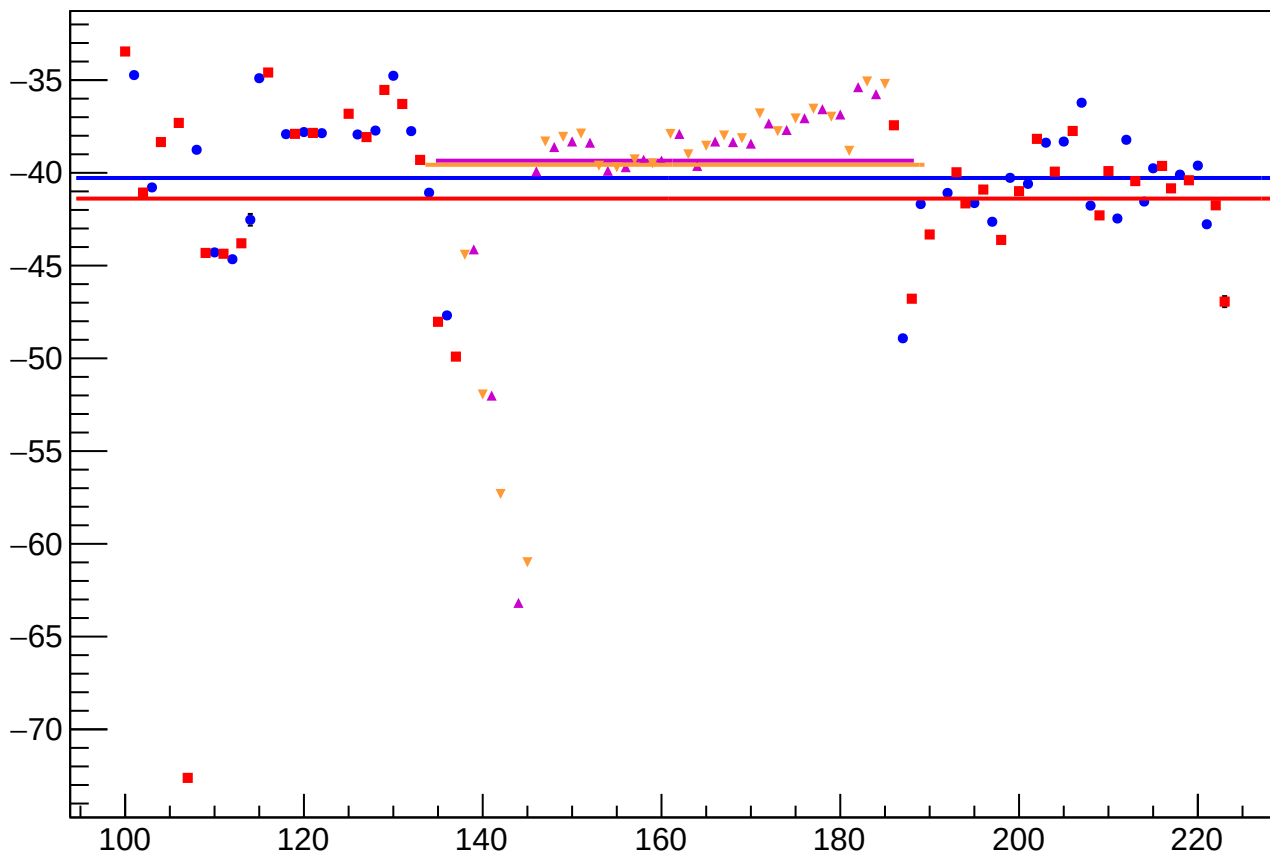
Right: 7.535 ± 0.296 χ^2/NDF : 1492.3/70

In: 14.695 ± 0.239 χ^2/NDF : 1785.3/56

Out: 14.407 ± 0.240 χ^2/NDF : 1939.1/60

All: 14.551 ± 0.169 χ^2/NDF : 3725.1/117

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected

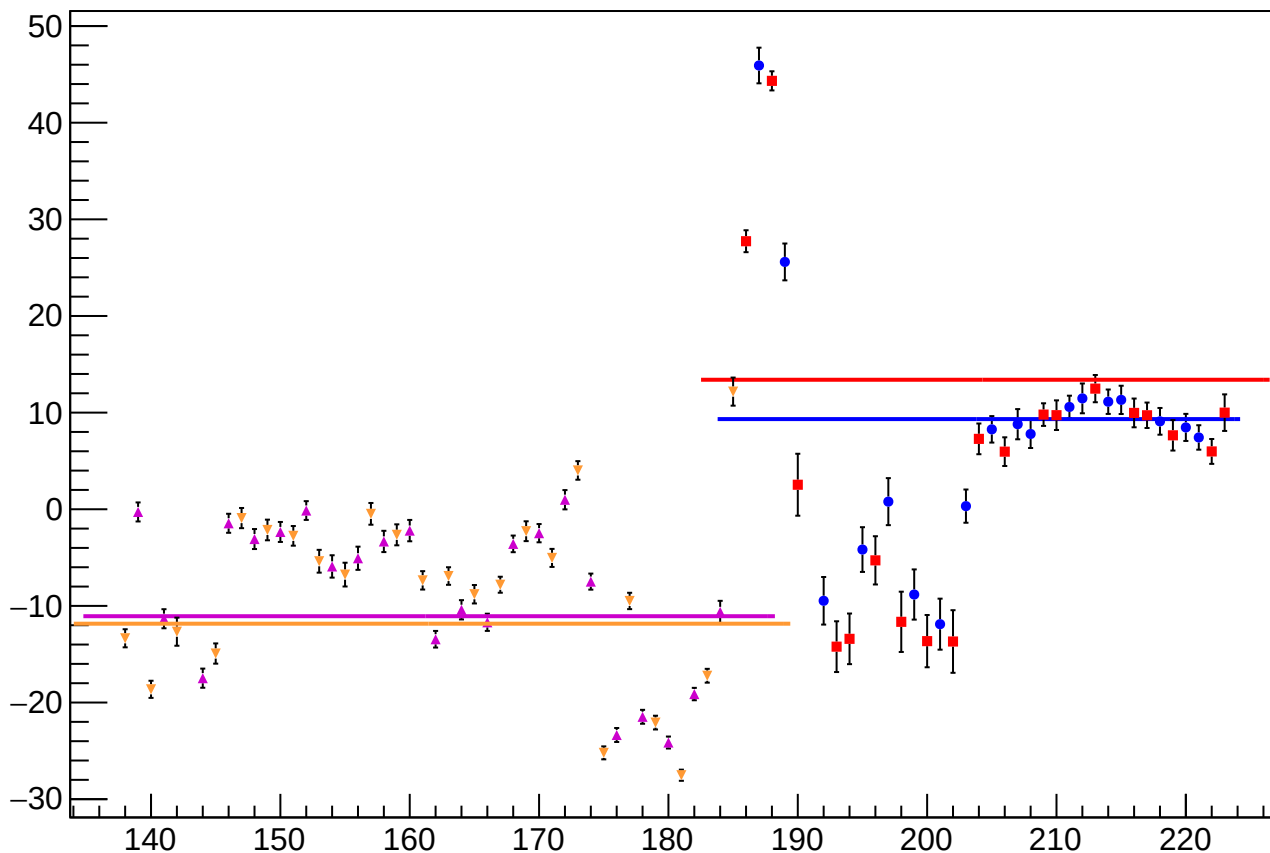


Right In: -40.277 ± 0.021 χ^2/NDF : 30133.4/33
 Left Out: -39.566 ± 0.014 χ^2/NDF : 141198.7/23
 Right Out: -41.388 ± 0.021 χ^2/NDF : 69173.8/36
 Left In: -39.344 ± 0.014 χ^2/NDF : 116615.7/22

Left: -39.454 ± 0.010 χ^2/NDF : 257946.5/46
 Right: -40.832 ± 0.015 χ^2/NDF : 100732.9/70
 In: -39.623 ± 0.011 χ^2/NDF : 148160.4/56
 Out: -40.119 ± 0.011 χ^2/NDF : 215713.7/60

All: -39.870 ± 0.008 χ^2/NDF : 364816.0/117

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



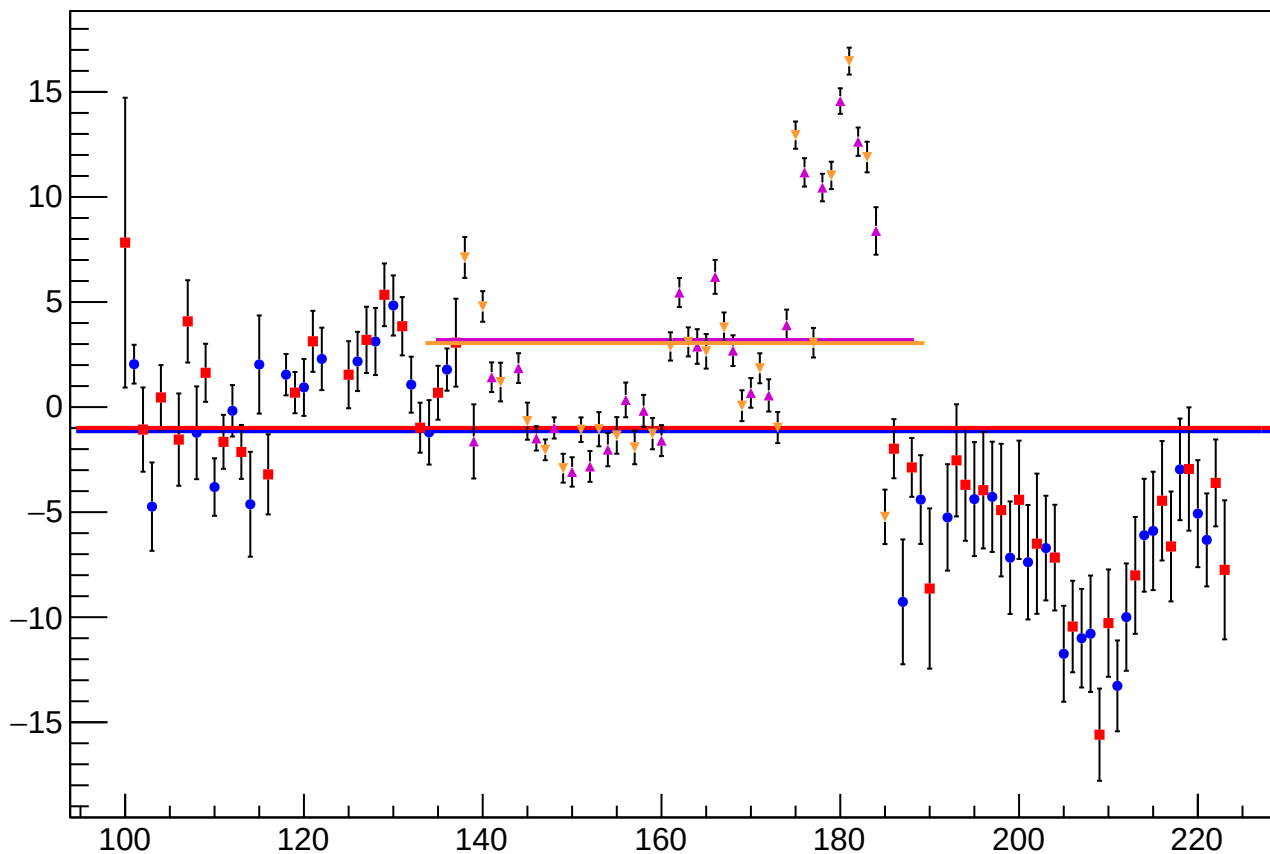
Right In: 9.330 ± 0.377 $\chi^2/\text{NDF}: 723.2/17$
 Left Out: -11.842 ± 0.187 $\chi^2/\text{NDF}: 2739.8/23$
 Right Out: 13.401 ± 0.365 $\chi^2/\text{NDF}: 1771.3/18$
 Left In: -11.067 ± 0.188 $\chi^2/\text{NDF}: 2104.8/22$

Left: -11.457 ± 0.133 $\chi^2/\text{NDF}: 4853.2/46$
 Right: 11.430 ± 0.262 $\chi^2/\text{NDF}: 2554.6/36$

In: -7.002 ± 0.168 $\chi^2/\text{NDF}: 5174.4/40$
 Out: -6.604 ± 0.166 $\chi^2/\text{NDF}: 8299.9/42$

All: -6.801 ± 0.118 $\chi^2/\text{NDF}: 13477.2/83$

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.148 ± 0.296 χ^2/NDF : 219.6/33

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.990 ± 0.297 χ^2/NDF : 187.1/36

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

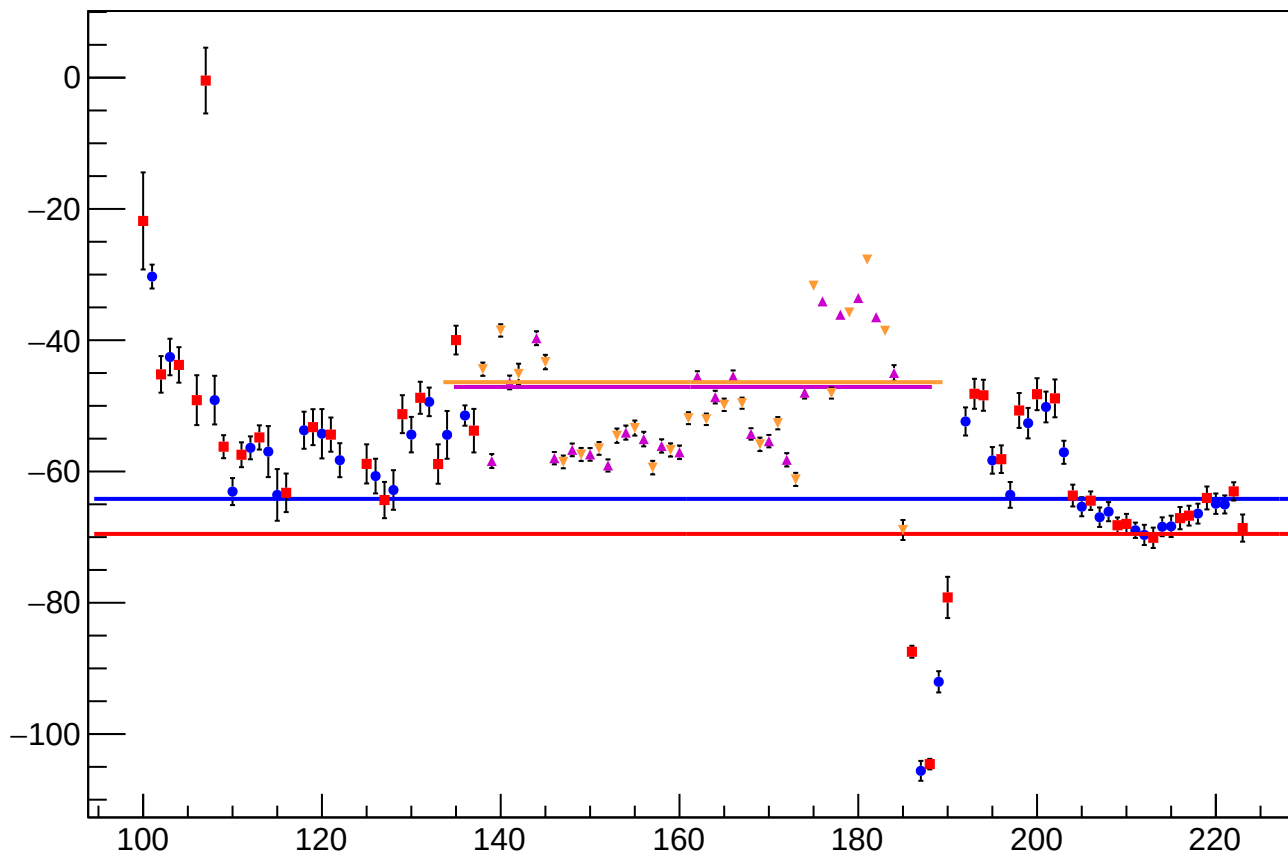
Right: -1.069 ± 0.209 χ^2/NDF : 406.9/70

In: 2.307 ± 0.134 χ^2/NDF : 1685.9/56

Out: 2.243 ± 0.132 χ^2/NDF : 1792.8/60

All: 2.275 ± 0.094 χ^2/NDF : 3478.8/117

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.172 ± 0.322 χ^2/NDF : 1822.1/33

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -69.511 ± 0.304 χ^2/NDF : 3775.8/36

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

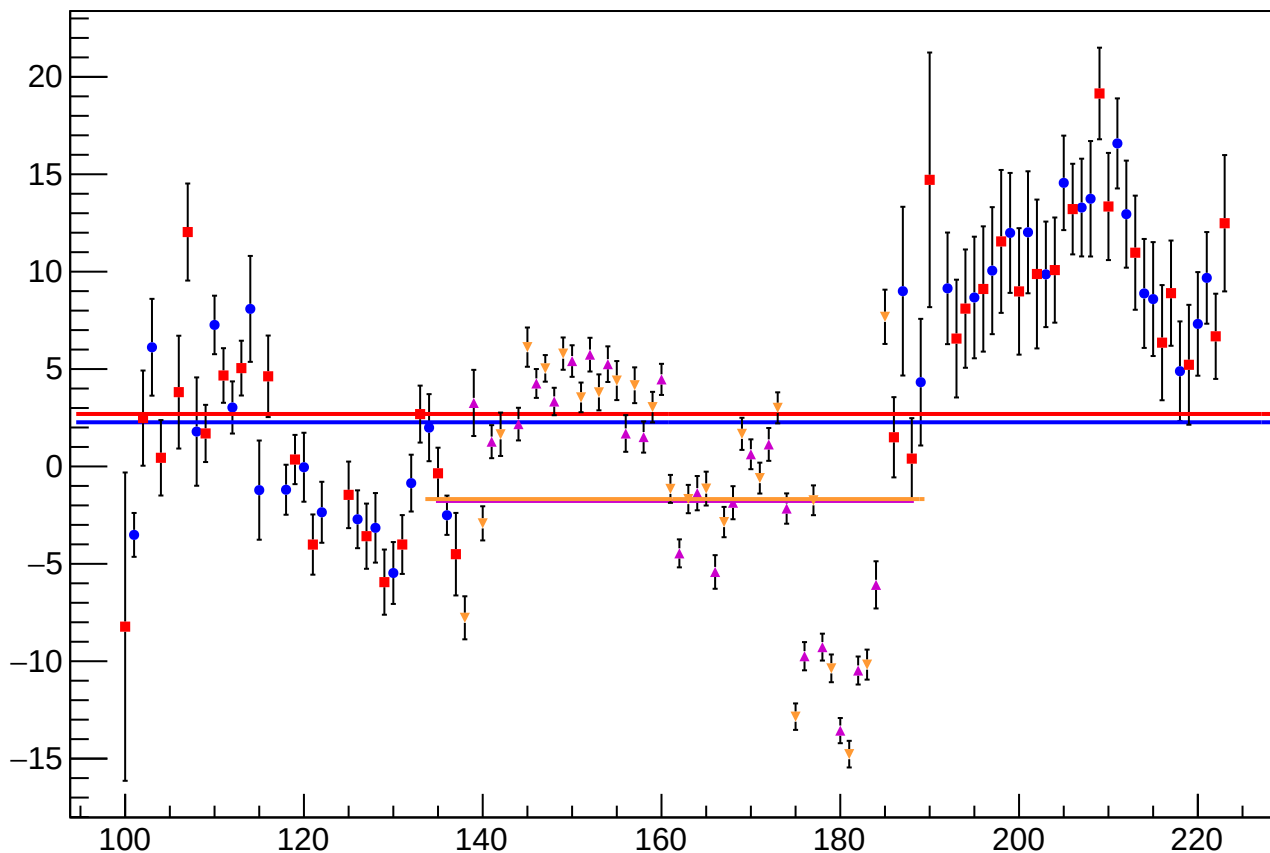
Right: -66.993 ± 0.221 χ^2/NDF : 5743.3/70

In: -51.437 ± 0.162 χ^2/NDF : 6434.1/56

Out: -52.715 ± 0.159 χ^2/NDF : 11262.4/60

All: -52.087 ± 0.113 χ^2/NDF : 17728.3/117

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.268 $\pm$ 0.334 χ^2 /NDF: 319.9/33

Left Out: -1.675 $\pm$ 0.167 χ^2 /NDF:1483.8/23

Right Out: 2.694 $\pm$ 0.339 χ^2 /NDF: 274.4/36

Left In: -1.771 $\pm$ 0.169 χ^2 /NDF:1251.3/22

Left: -1.723 $\pm$ 0.119 χ^2 /NDF: 2735.2/46

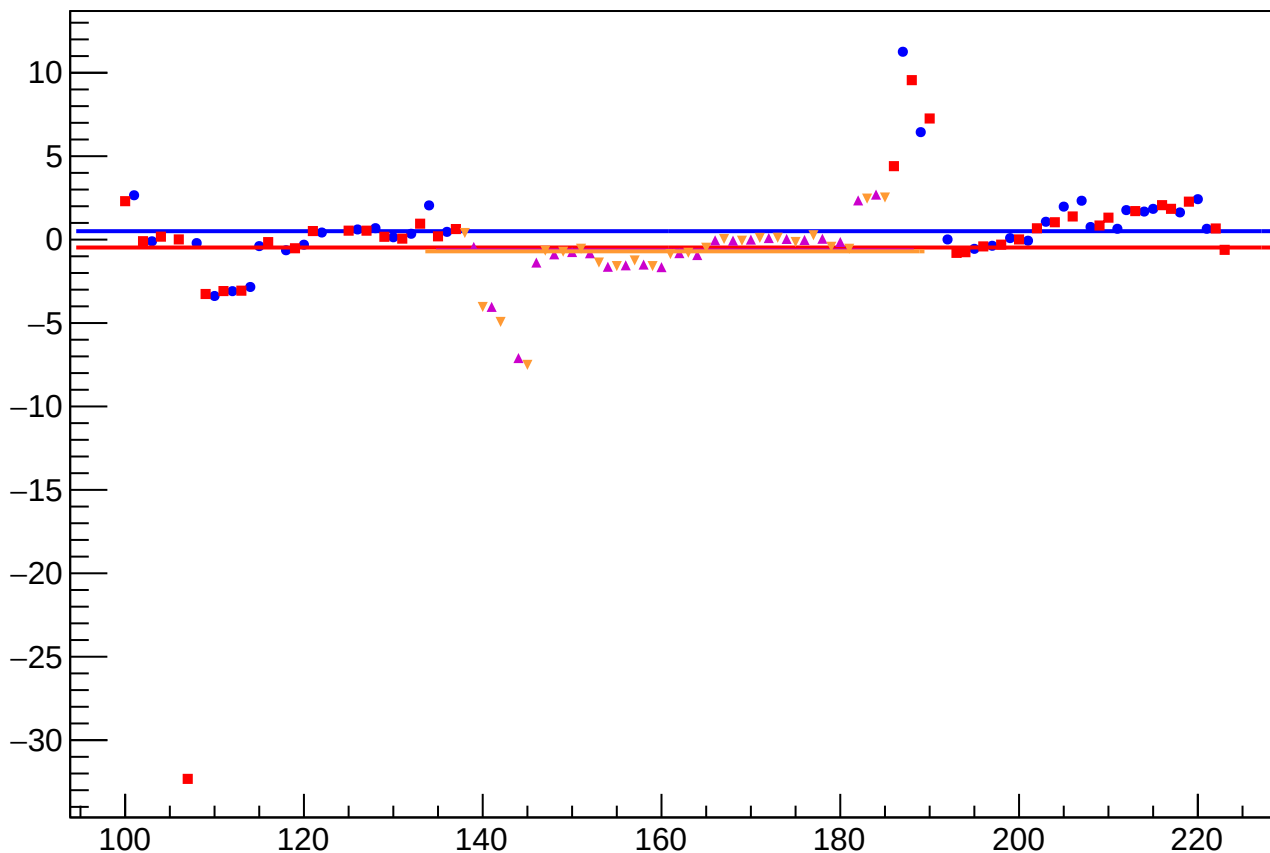
Right: 2.478 $\pm$ 0.238 χ^2 /NDF: 595.0/70

In: -0.949 $\pm$ 0.151 χ^2 /NDF:1687.4/56

Out: -0.823 $\pm$ 0.150 χ^2 /NDF:1891.6/60

All: -0.886 $\pm$ 0.106 χ^2 /NDF: 3579.4/117

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.506 $\pm$ 0.017 χ^2 /NDF: 10431.4/33

Left Out: -0.702 $\pm$ 0.008 χ^2 /NDF: 53834.9/23

Right Out: -0.473 $\pm$ 0.017 χ^2 /NDF: 94802.7/36

Left In: -0.644 $\pm$ 0.008 χ^2 /NDF: 44169.2/22

Left: -0.673 $\pm$ 0.005 χ^2 /NDF: 98032.6/46

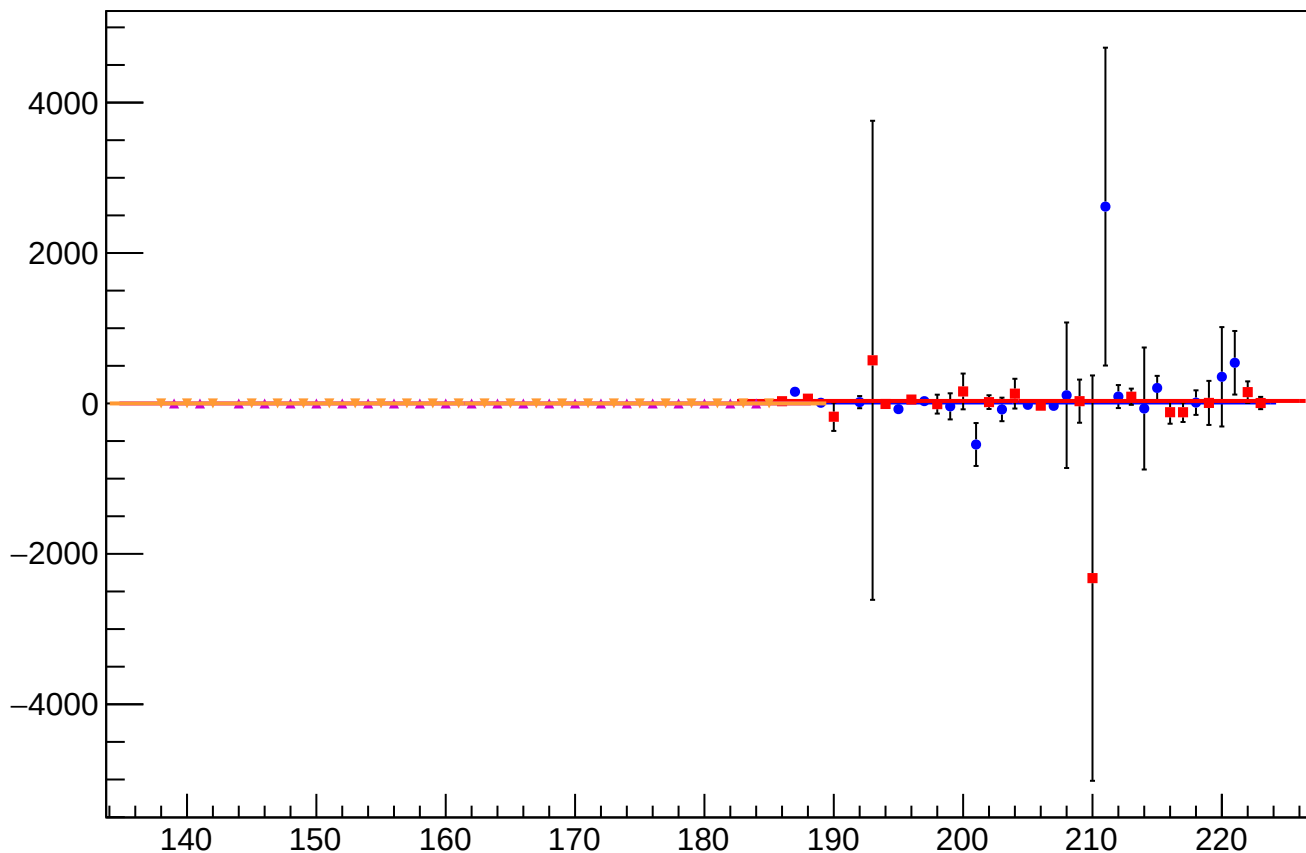
Right: 0.020 $\pm$ 0.012 χ^2 /NDF: 106899.0/70

In: -0.448 $\pm$ 0.007 χ^2 /NDF: 58436.3/56

Out: -0.663 $\pm$ 0.007 χ^2 /NDF: 148787.4/60

All: -0.556 $\pm$ 0.005 χ^2 /NDF: 207702.0/117

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.496+/-14.994 χ^2/NDF : 24.5/17

Left Out: -0.037+/-0.018 χ^2/NDF : 35.4/23

Right Out: 33.092+/-9.495 χ^2/NDF : 10.7/18

Left In: -0.010+/-0.018 χ^2/NDF : 35.1/22

Left: -0.024+/-0.013 χ^2/NDF : 71.7/46

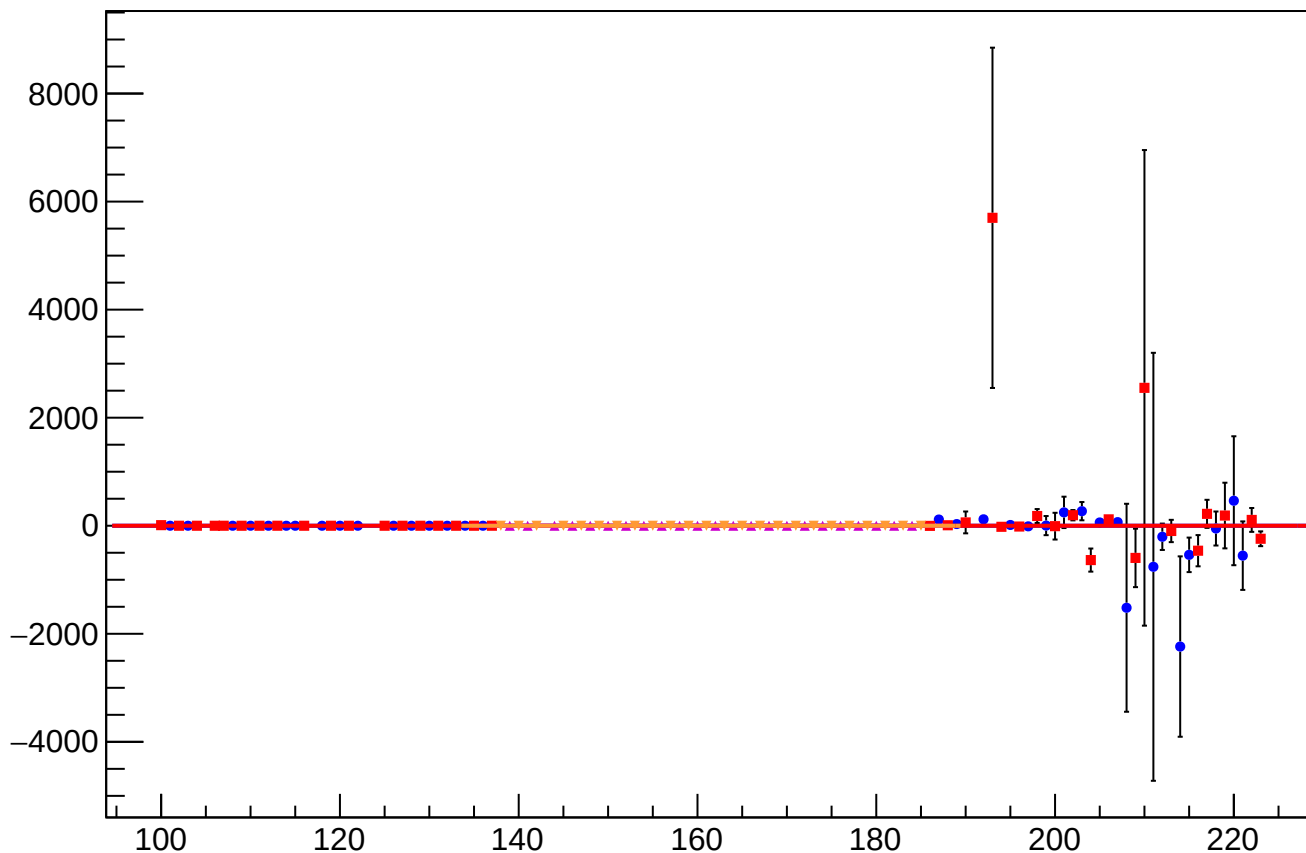
Right: 27.196+/-8.022 χ^2/NDF : 36.6/36

In: -0.010+/-0.018 χ^2/NDF : 60.4/40

Out: -0.037+/-0.018 χ^2/NDF : 58.3/42

All: -0.024+/-0.013 χ^2/NDF : 119.8/83

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 30.4/33

Left Out: -0.073 ± 0.014 χ^2/NDF : 27.8/23

Right Out: -0.088 ± 0.025 χ^2/NDF : 43.3/36

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.068 ± 0.010 χ^2/NDF : 69.1/46

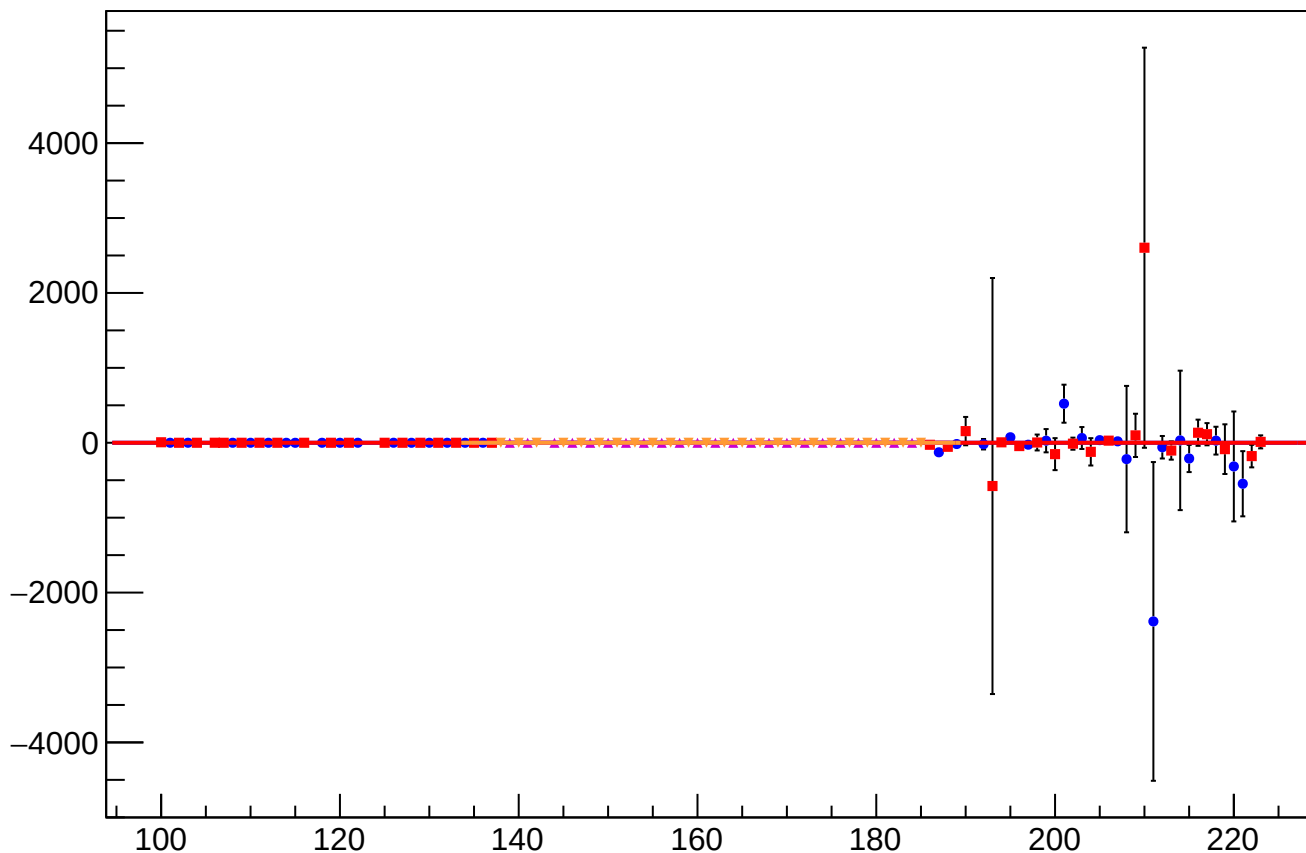
Right: -0.048 ± 0.017 χ^2/NDF : 78.4/70

In: -0.050 ± 0.012 χ^2/NDF : 74.9/56

Out: -0.076 ± 0.012 χ^2/NDF : 71.4/60

All: -0.063 ± 0.009 χ^2/NDF : 148.5/117

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016 $\pm$ 0.043 χ^2 /NDF: 34.7/33

Left Out: 0.035 $\pm$ 0.018 χ^2 /NDF:32.2/23

Right Out: 0.031 $\pm$ 0.045 χ^2 /NDF: 35.1/36

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

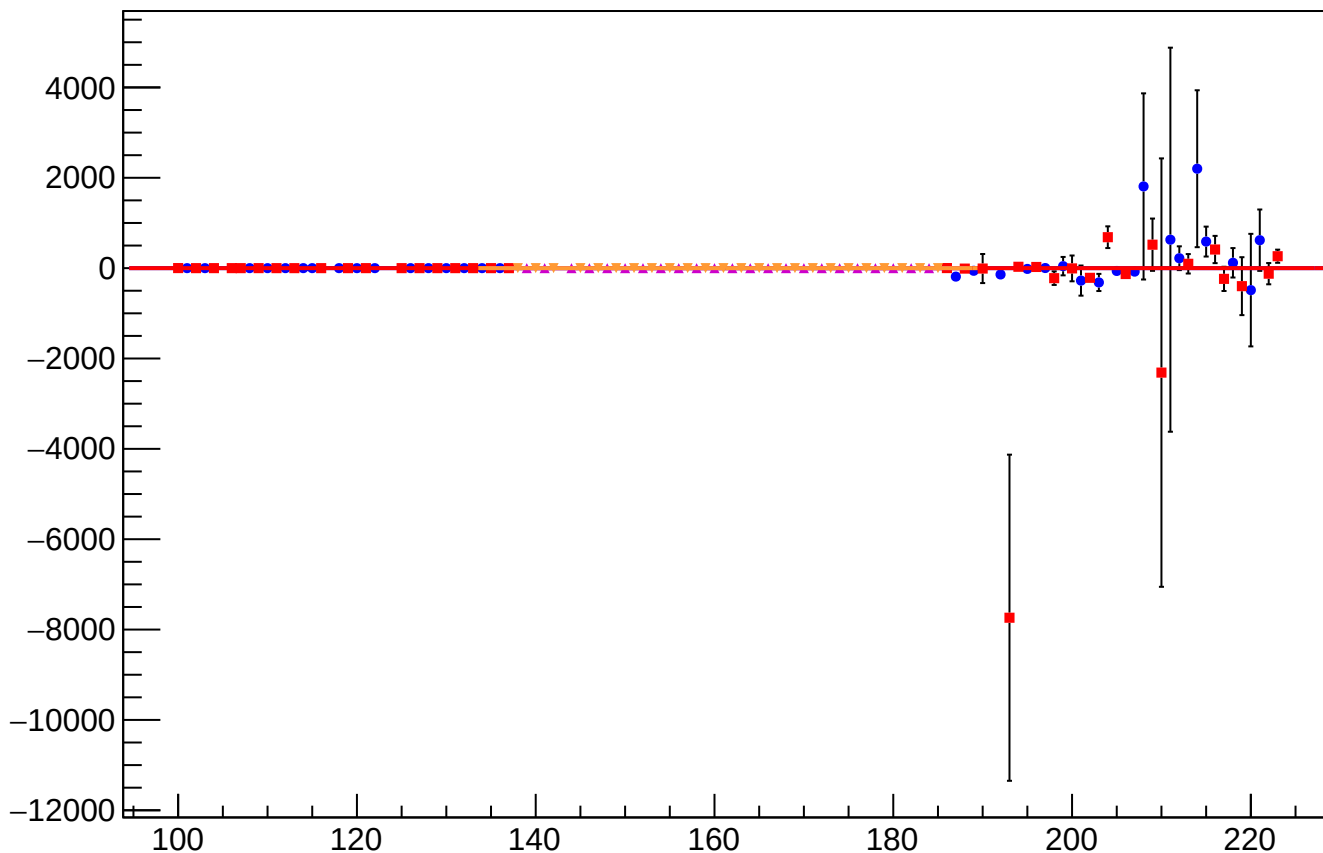
Right: 0.023 $\pm$ 0.031 χ^2 /NDF: 69.9/70

In: -0.005 $\pm$ 0.017 χ^2 /NDF:71.8/56

Out: 0.035 $\pm$ 0.017 χ^2 /NDF:67.3/60

All: 0.015 $\pm$ 0.012 χ^2 /NDF: 142.0/117

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.027 χ^2 /NDF: 32.1/33

Left Out: 0.086 $\pm$ 0.016 χ^2 /NDF:27.7/23

Right Out: 0.105 $\pm$ 0.029 χ^2 /NDF: 38.6/36

Left In: 0.070 $\pm$ 0.016 χ^2 /NDF:44.8/22

Left: 0.078 $\pm$ 0.011 χ^2 /NDF: 73.1/46

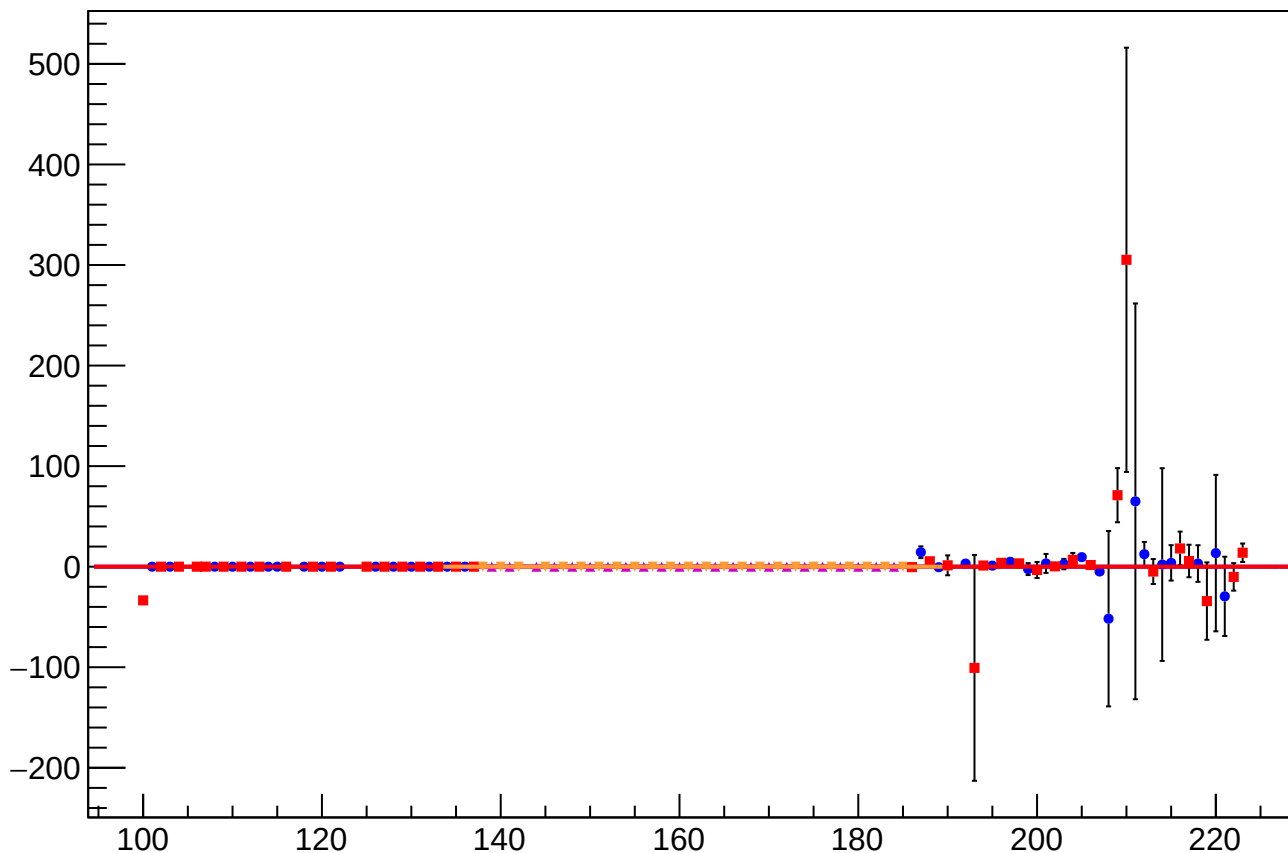
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 76.6/70

In: 0.053 $\pm$ 0.014 χ^2 /NDF:80.6/56

Out: 0.091 $\pm$ 0.014 χ^2 /NDF:66.6/60

All: 0.072 $\pm$ 0.010 χ^2 /NDF: 150.8/117

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 48.4/33

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26535.7/36

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

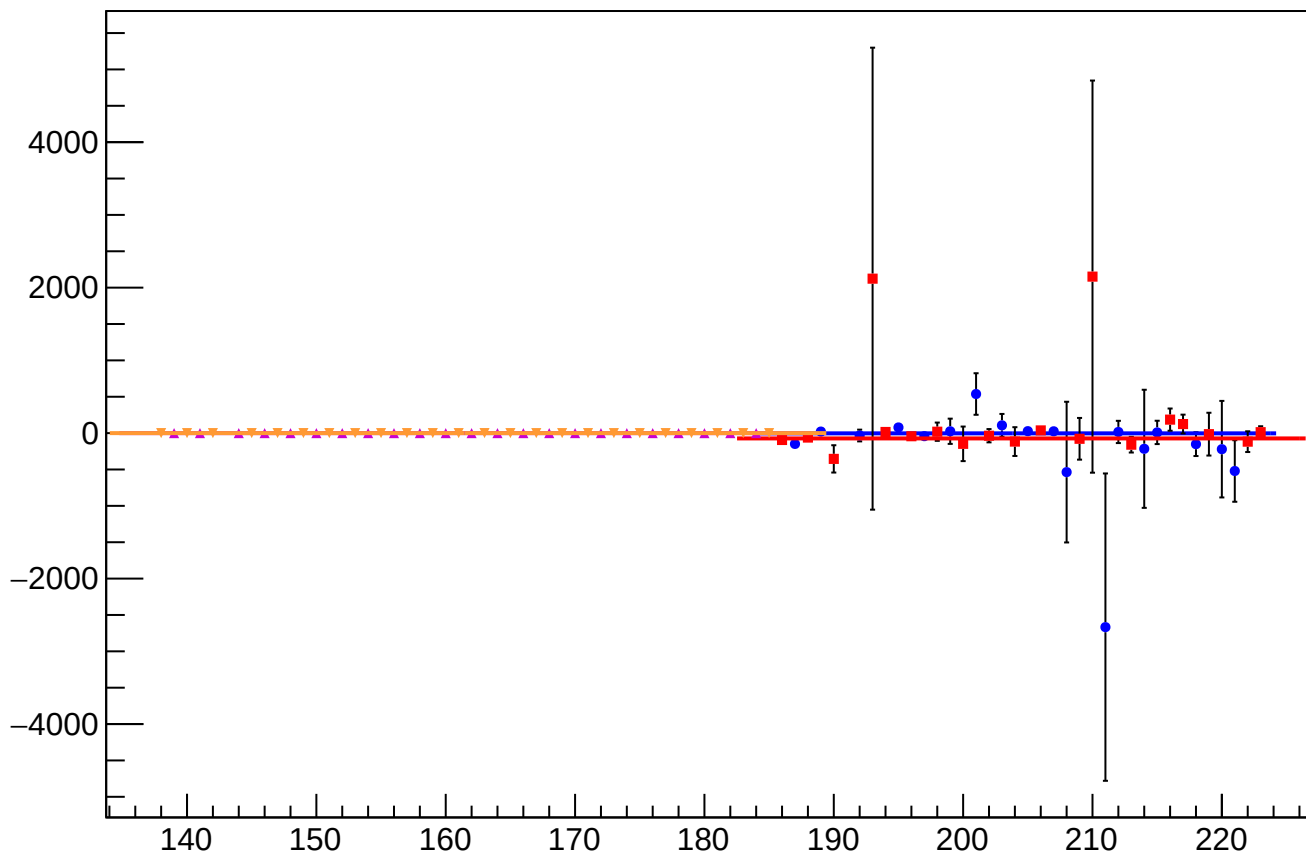
Right: -0.006 ± 0.001 χ^2/NDF : 26584.2/70

In: -0.001 ± 0.001 χ^2/NDF : 82.4/56

Out: -0.001 ± 0.001 χ^2/NDF : 26574.4/60

All: -0.001 ± 0.000 χ^2/NDF : 26656.9/117

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.194 ± 14.989 $\chi^2/\text{NDF}: 24.3/17$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -73.015 ± 9.497 $\chi^2/\text{NDF}: 23.1/18$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

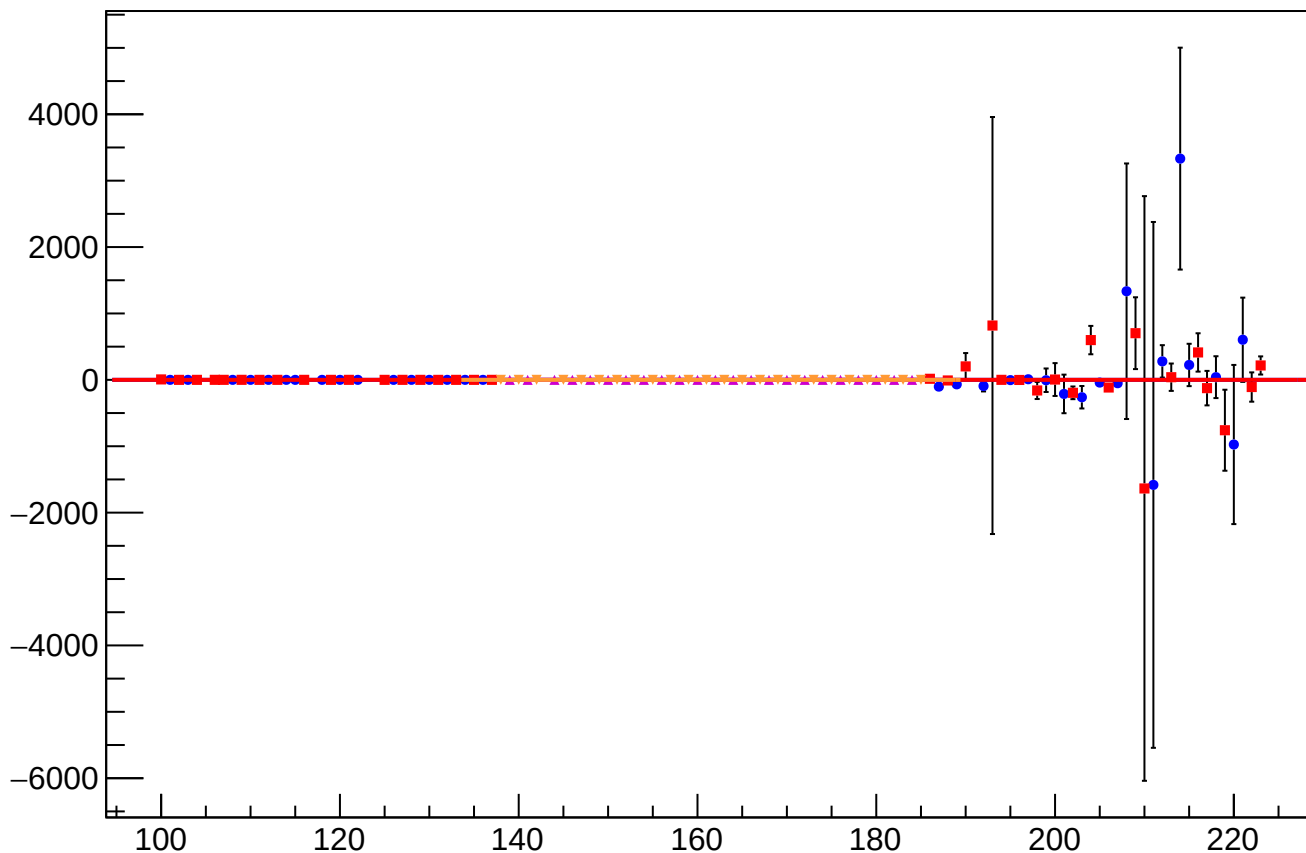
Right: -53.014 ± 8.022 $\chi^2/\text{NDF}: 62.9/36$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 59.4/40$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 119.5/42$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 181.8/83$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 ± 0.023 $\chi^2/\text{NDF}: 45.3/33$

Left Out: -0.011 ± 0.014 $\chi^2/\text{NDF}: 29.6/23$

Right Out: 0.037 ± 0.025 $\chi^2/\text{NDF}: 56.2/36$

Left In: 0.005 ± 0.014 $\chi^2/\text{NDF}: 49.6/22$

Left: -0.003 ± 0.010 $\chi^2/\text{NDF}: 79.7/46$

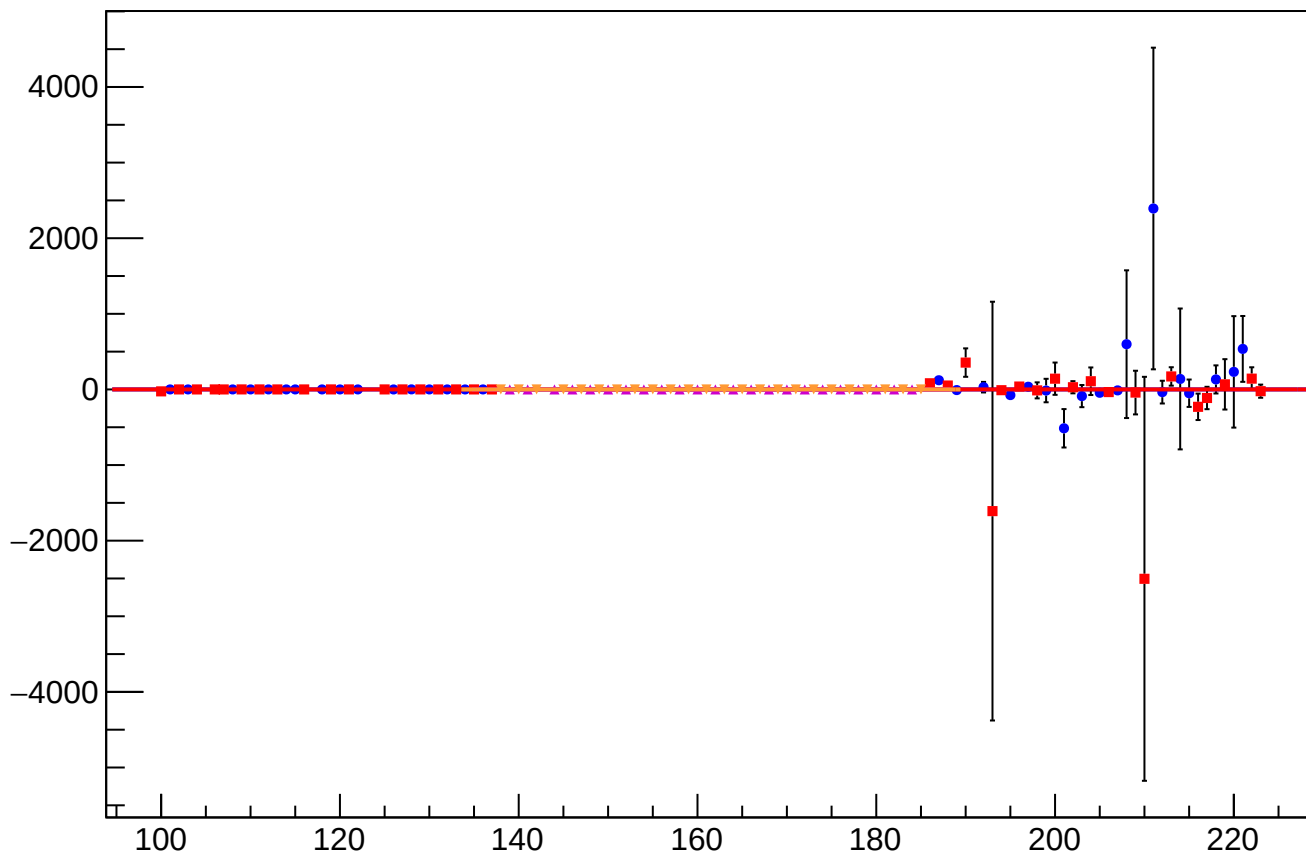
Right: 0.021 ± 0.017 $\chi^2/\text{NDF}: 102.1/70$

In: 0.006 ± 0.012 $\chi^2/\text{NDF}: 94.8/56$

Out: 0.001 ± 0.012 $\chi^2/\text{NDF}: 88.5/60$

All: 0.003 ± 0.009 $\chi^2/\text{NDF}: 183.4/117$

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157 $\pm$ 0.043 χ^2 /NDF: 54.1/33

Left Out: 0.048 $\pm$ 0.018 χ^2 /NDF:35.4/23

Right Out: 0.197 $\pm$ 0.045 χ^2 /NDF: 114.8/36

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

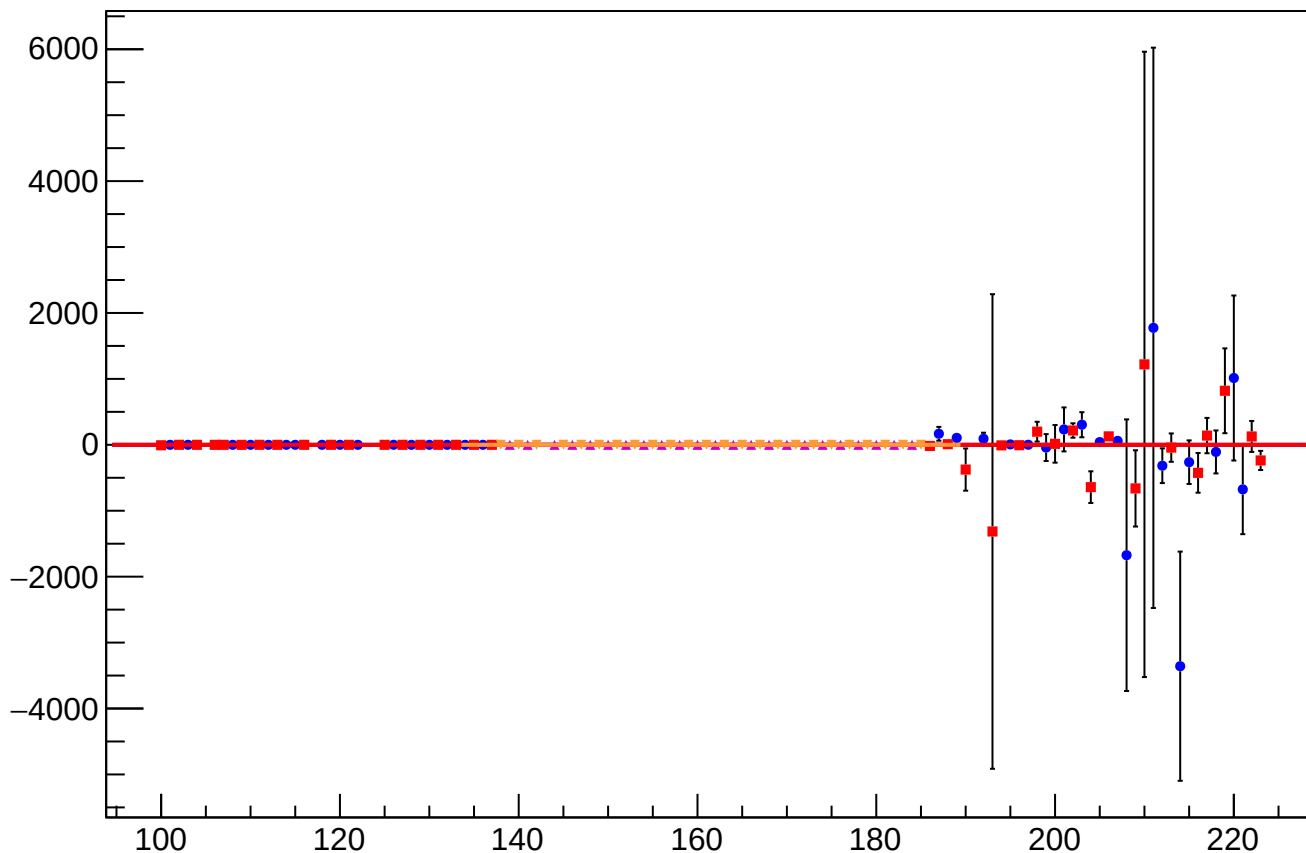
Right: 0.176 $\pm$ 0.031 χ^2 /NDF: 169.4/70

In: 0.040 $\pm$ 0.017 χ^2 /NDF:98.5/56

Out: 0.068 $\pm$ 0.017 χ^2 /NDF:159.7/60

All: 0.054 $\pm$ 0.012 χ^2 /NDF: 259.7/117

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 $\chi^2/\text{NDF}: 45.2/33$

Left Out: 0.022 ± 0.016 $\chi^2/\text{NDF}: 33.3/23$

Right Out: -0.046 ± 0.029 $\chi^2/\text{NDF}: 52.9/36$

Left In: 0.006 ± 0.016 $\chi^2/\text{NDF}: 50.1/22$

Left: 0.014 ± 0.011 $\chi^2/\text{NDF}: 83.9/46$

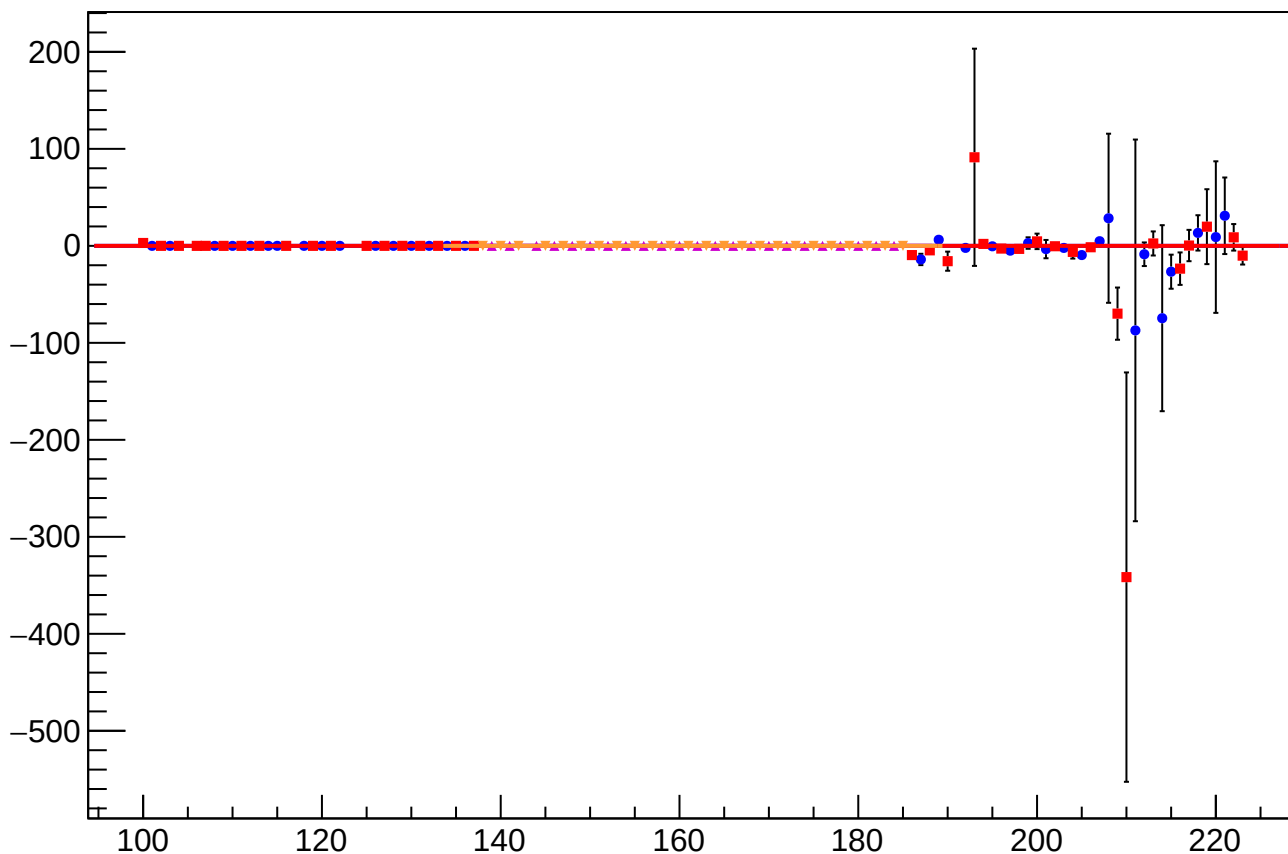
Right: -0.027 ± 0.020 $\chi^2/\text{NDF}: 98.9/70$

In: 0.002 ± 0.014 $\chi^2/\text{NDF}: 95.6/56$

Out: 0.005 ± 0.014 $\chi^2/\text{NDF}: 90.5/60$

All: 0.004 ± 0.010 $\chi^2/\text{NDF}: 186.1/117$

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 62.5/33

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 228.1/36

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

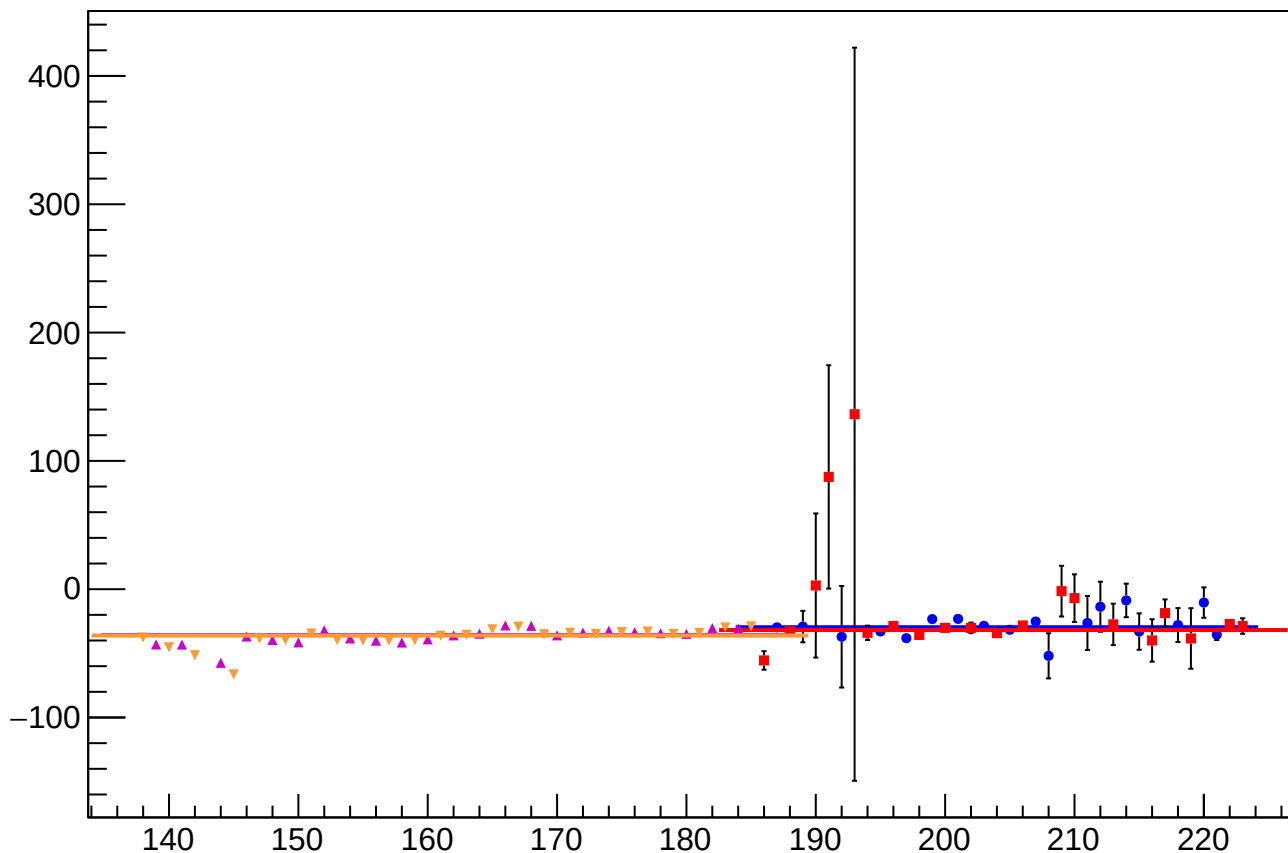
Right: -0.006 ± 0.001 χ^2/NDF : 290.7/70

In: -0.008 ± 0.001 χ^2/NDF : 102.3/56

Out: -0.008 ± 0.001 χ^2/NDF : 262.2/60

All: -0.008 ± 0.000 χ^2/NDF : 364.6/117

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.641 ± 0.833 χ^2/NDF : 33.5/17

Left Out: -36.120 ± 0.192 χ^2/NDF : 1114.9/23

Right Out: -31.829 ± 0.779 χ^2/NDF : 28.9/19

Left In: -35.779 ± 0.191 χ^2/NDF : 854.1/22

Left: -35.949 ± 0.136 χ^2/NDF : 1970.6/46

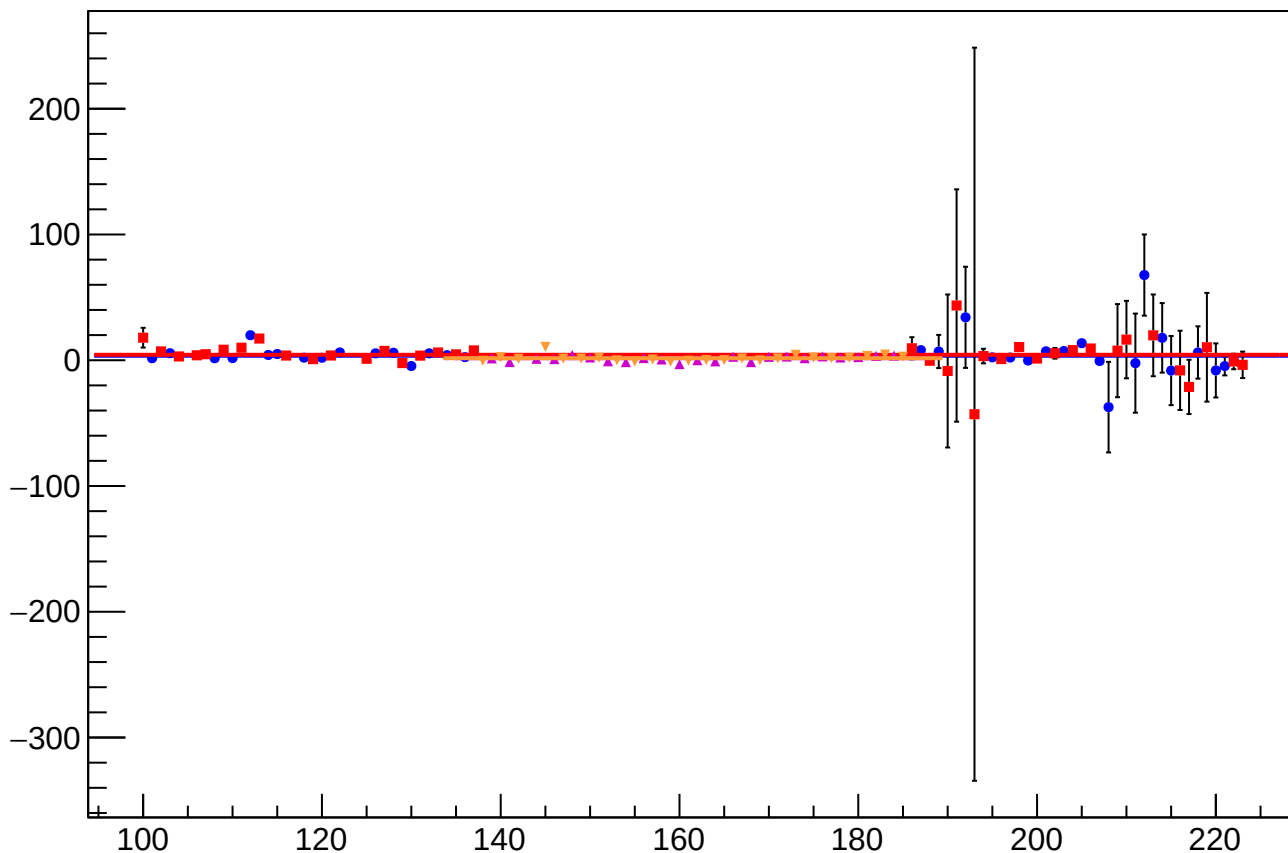
Right: -30.808 ± 0.569 χ^2/NDF : 66.0/37

In: -35.471 ± 0.186 χ^2/NDF : 939.2/40

Out: -35.875 ± 0.186 χ^2/NDF : 1172.4/43

All: -35.673 ± 0.132 χ^2/NDF : 2114.0/84

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.595 $\pm$ 0.217 χ^2 /NDF: 464.1/33

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.337 $\pm$ 0.220 χ^2 /NDF: 372.3/37

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

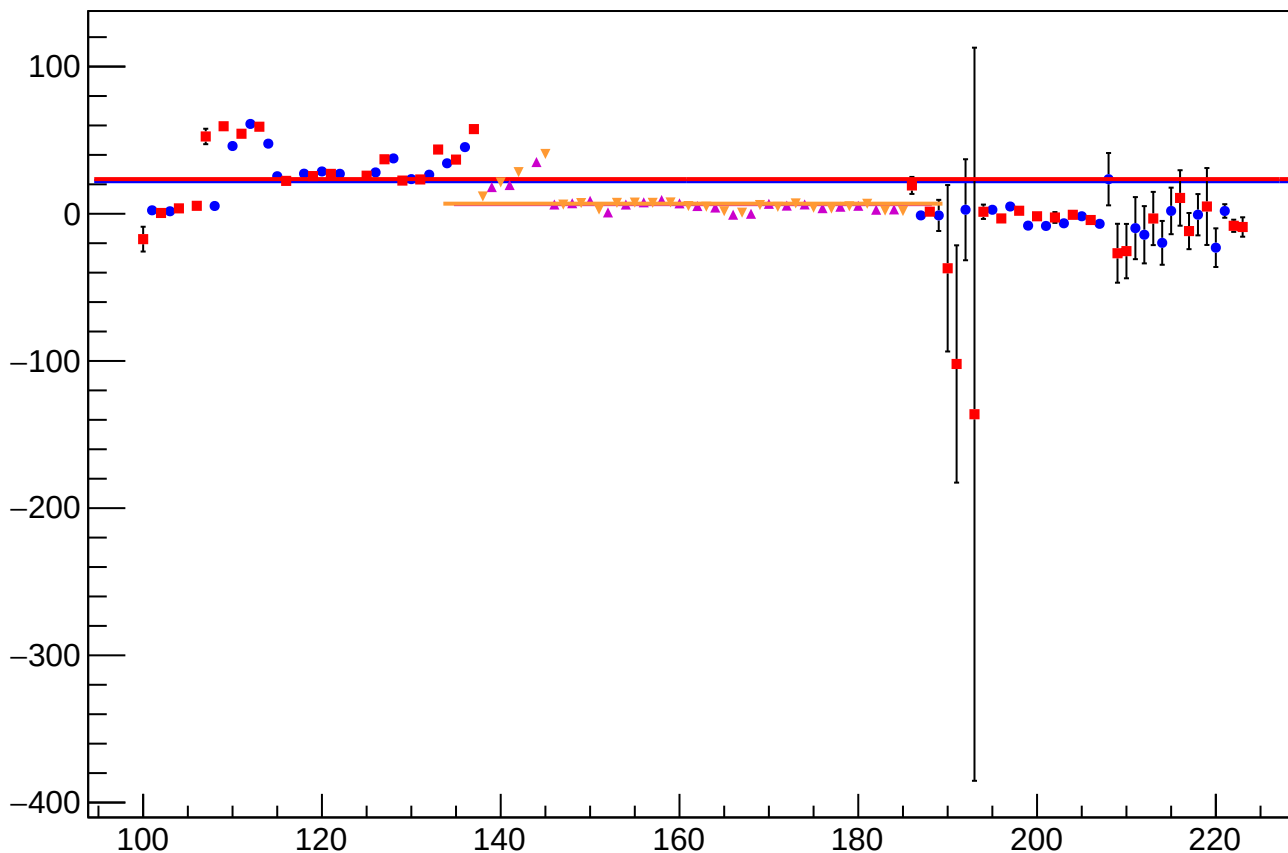
Right: 3.959 $\pm$ 0.154 χ^2 /NDF: 842.1/71

In: 2.272 $\pm$ 0.123 χ^2 /NDF:682.4/56

Out: 2.472 $\pm$ 0.123 χ^2 /NDF:642.5/61

All: 2.372 $\pm$ 0.087 χ^2 /NDF: 1326.3/118

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.106+/-0.368 χ^2 /NDF: 2855.5/33

Left Out: 6.866+/-0.191 χ^2 /NDF:1295.7/23

Right Out: 23.556+/-0.359 χ^2 /NDF: 3392.9/37

Left In: 6.537+/-0.190 χ^2 /NDF:1025.1/22

Left: 6.700+/-0.135 χ^2 /NDF: 2322.3/46

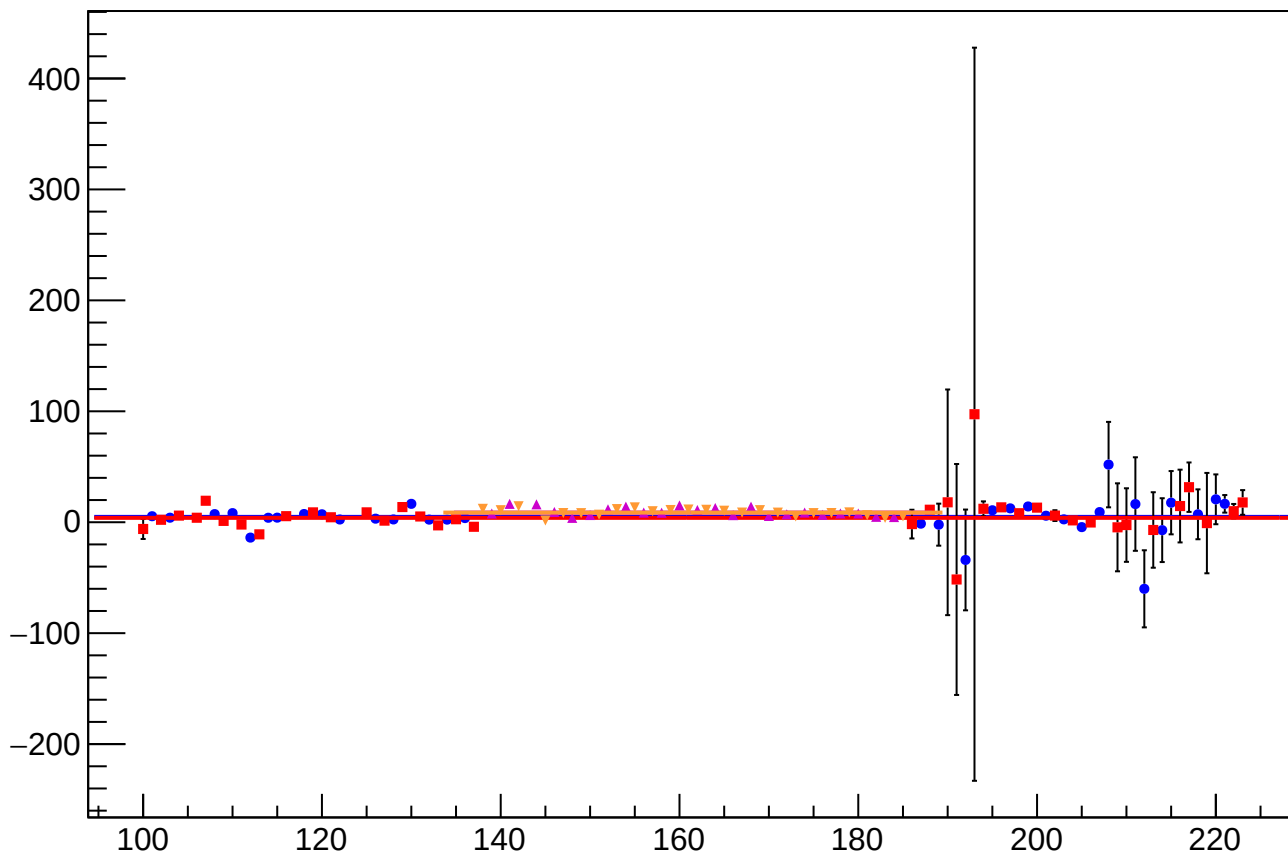
Right: 22.848+/-0.257 χ^2 /NDF: 6256.4/71

In: 9.821+/-0.169 χ^2 /NDF:5291.6/56

Out: 10.552+/-0.169 χ^2 /NDF:6368.1/61

All: 10.187+/-0.120 χ^2 /NDF: 11669.1/118

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.818 $\pm$ 0.250 χ^2 /NDF: 579.4/33

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.956 $\pm$ 0.254 χ^2 /NDF: 593.3/37

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

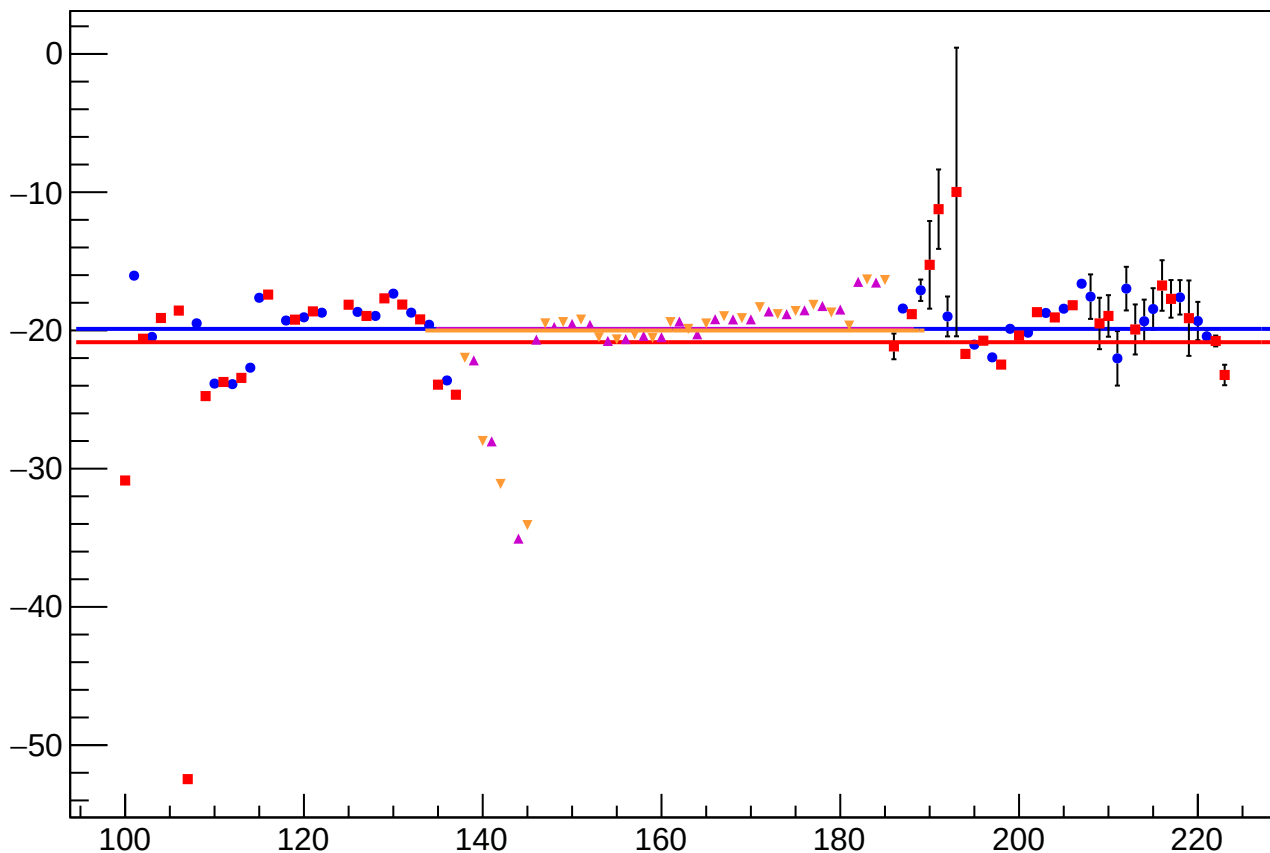
Right: 4.395 $\pm$ 0.178 χ^2 /NDF: 1178.6/71

In: 7.448 $\pm$ 0.141 χ^2 /NDF:1178.3/56

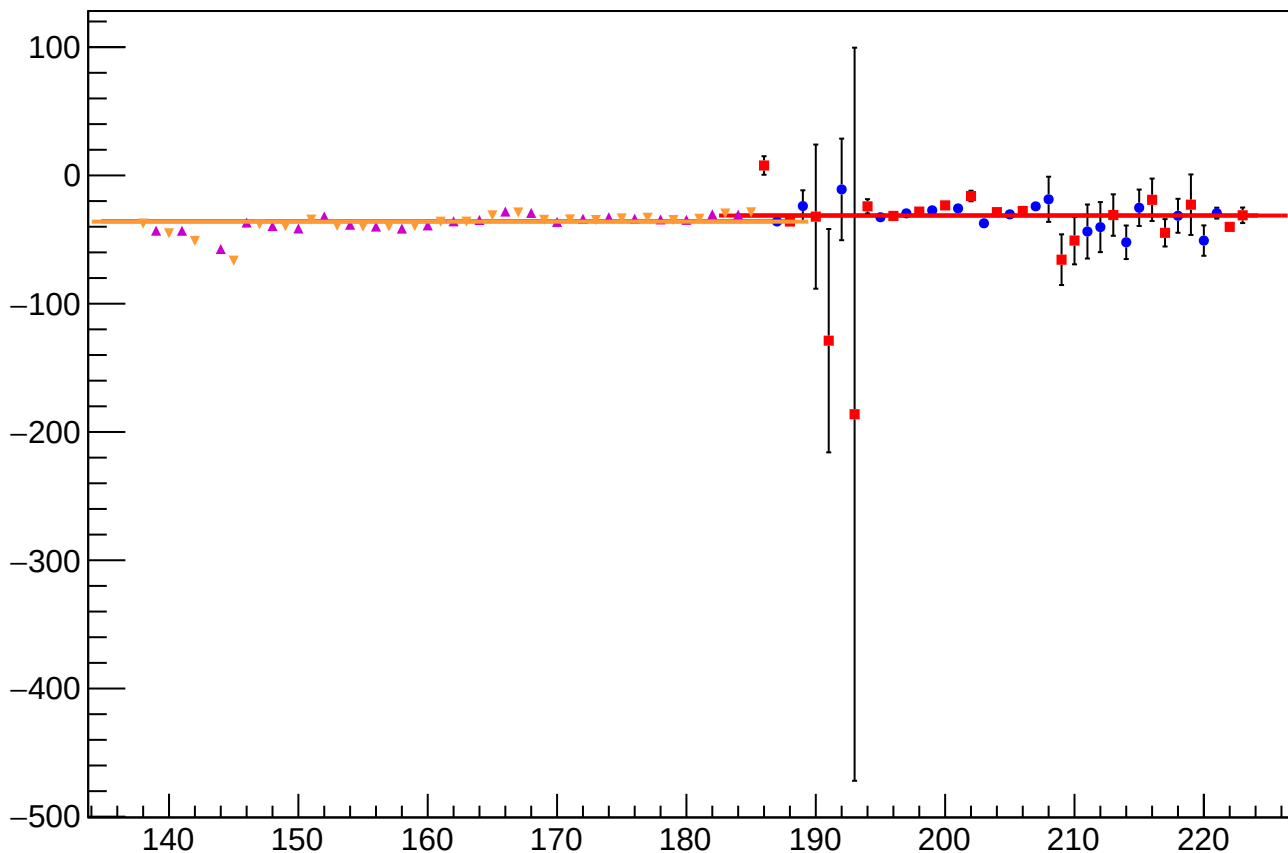
Out: 7.241 $\pm$ 0.141 χ^2 /NDF:1075.5/61

All: 7.345 $\pm$ 0.099 χ^2 /NDF: 2254.9/118

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected

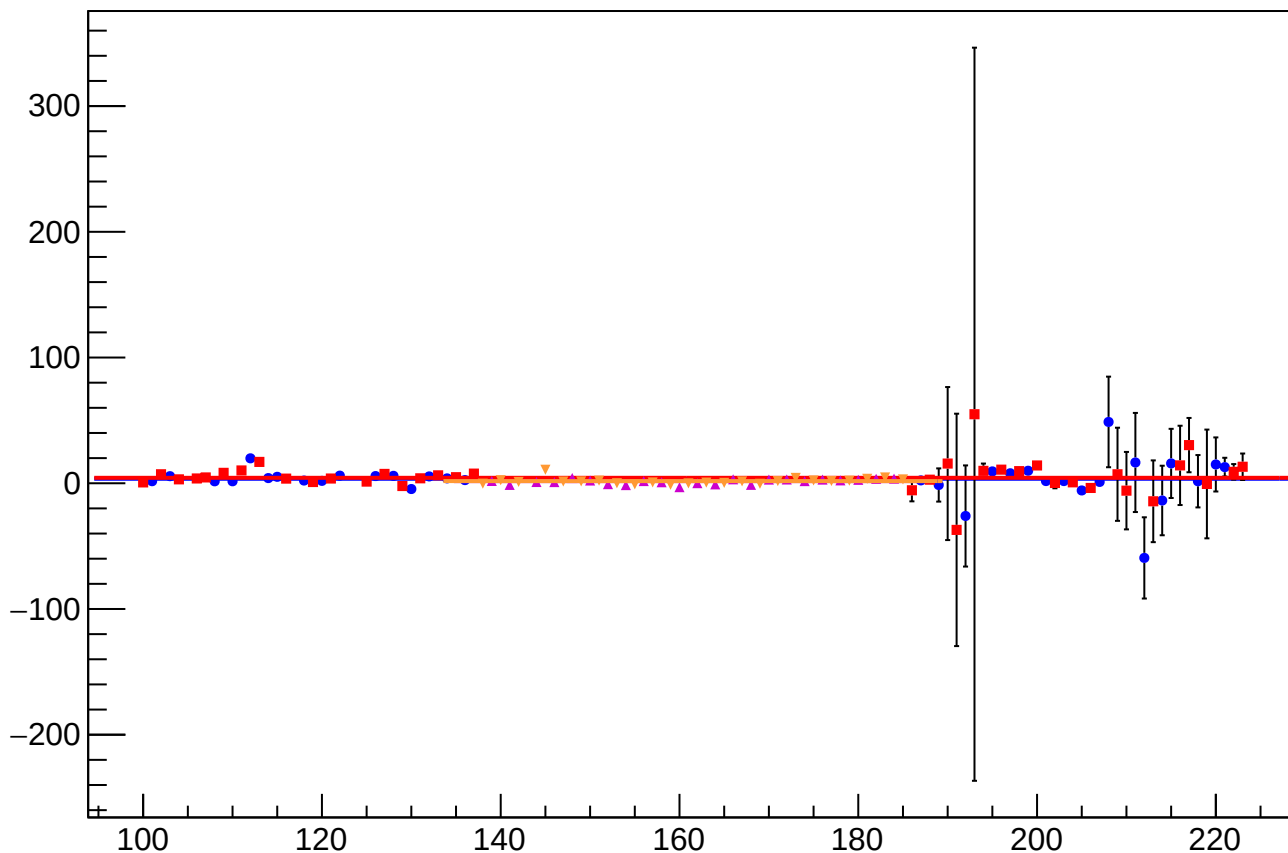


Right In: -31.227 ± 0.835 $\chi^2/\text{NDF}: 34.3/17$
 Left Out: -36.031 ± 0.192 $\chi^2/\text{NDF}: 1121.3/23$
 Right Out: -31.281 ± 0.781 $\chi^2/\text{NDF}: 84.1/19$
 Left In: -35.766 ± 0.191 $\chi^2/\text{NDF}: 842.6/22$

Left: -35.898 ± 0.135 $\chi^2/\text{NDF}: 1964.8/46$
 Right: -31.255 ± 0.570 $\chi^2/\text{NDF}: 118.3/37$
 In: -35.540 ± 0.186 $\chi^2/\text{NDF}: 904.9/40$
 Out: -35.760 ± 0.186 $\chi^2/\text{NDF}: 1240.3/43$

All: -35.650 ± 0.132 $\chi^2/\text{NDF}: 2145.9/84$

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.576 $\pm$ 0.216 χ^2 /NDF: 463.9/33

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.332 $\pm$ 0.217 χ^2 /NDF: 381.6/37

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

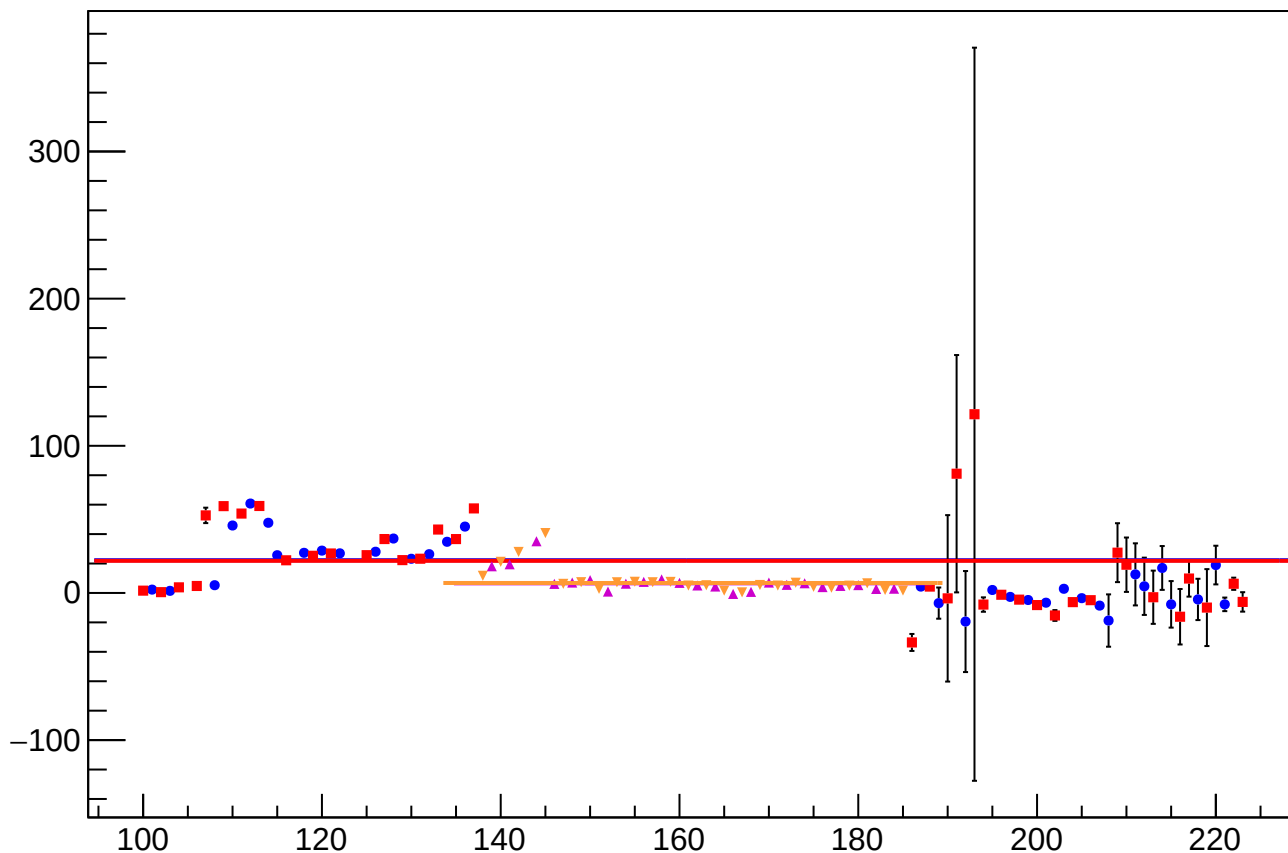
Right: 3.953 $\pm$ 0.153 χ^2 /NDF: 851.6/71

In: 2.309 $\pm$ 0.123 χ^2 /NDF:677.5/56

Out: 2.550 $\pm$ 0.122 χ^2 /NDF:648.6/61

All: 2.430 $\pm$ 0.087 χ^2 /NDF: 1328.0/118

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.250+/-0.368 χ^2/NDF : 2750.8/33

Left Out: 6.779+/-0.191 χ^2/NDF : 1297.7/23

Right Out: 21.837+/-0.347 χ^2/NDF : 3700.1/37

Left In: 6.532+/-0.190 χ^2/NDF : 1018.2/22

Left: 6.655+/-0.135 χ^2/NDF : 2316.7/46

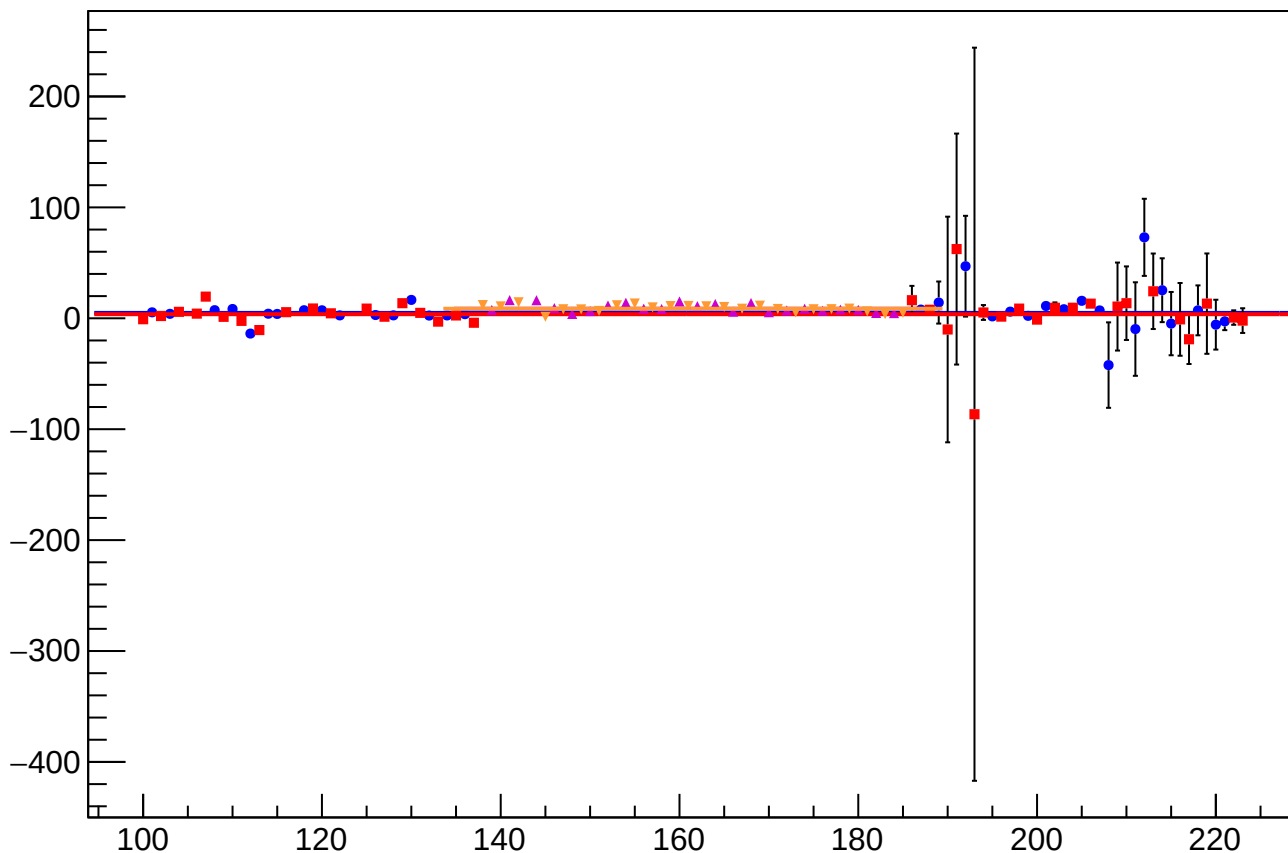
Right: 22.031+/-0.253 χ^2/NDF : 6451.6/71

In: 9.844+/-0.169 χ^2/NDF : 5206.9/56

Out: 10.289+/-0.168 χ^2/NDF : 6442.4/61

All: 10.069+/-0.119 χ^2/NDF : 11652.7/118

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.840 $\pm$ 0.250 χ^2 /NDF: 566.1/33

Left Out: 8.585 $\pm$ 0.169 χ^2 /NDF: 245.5/23

Right Out: 3.689 $\pm$ 0.250 χ^2 /NDF: 591.0/37

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

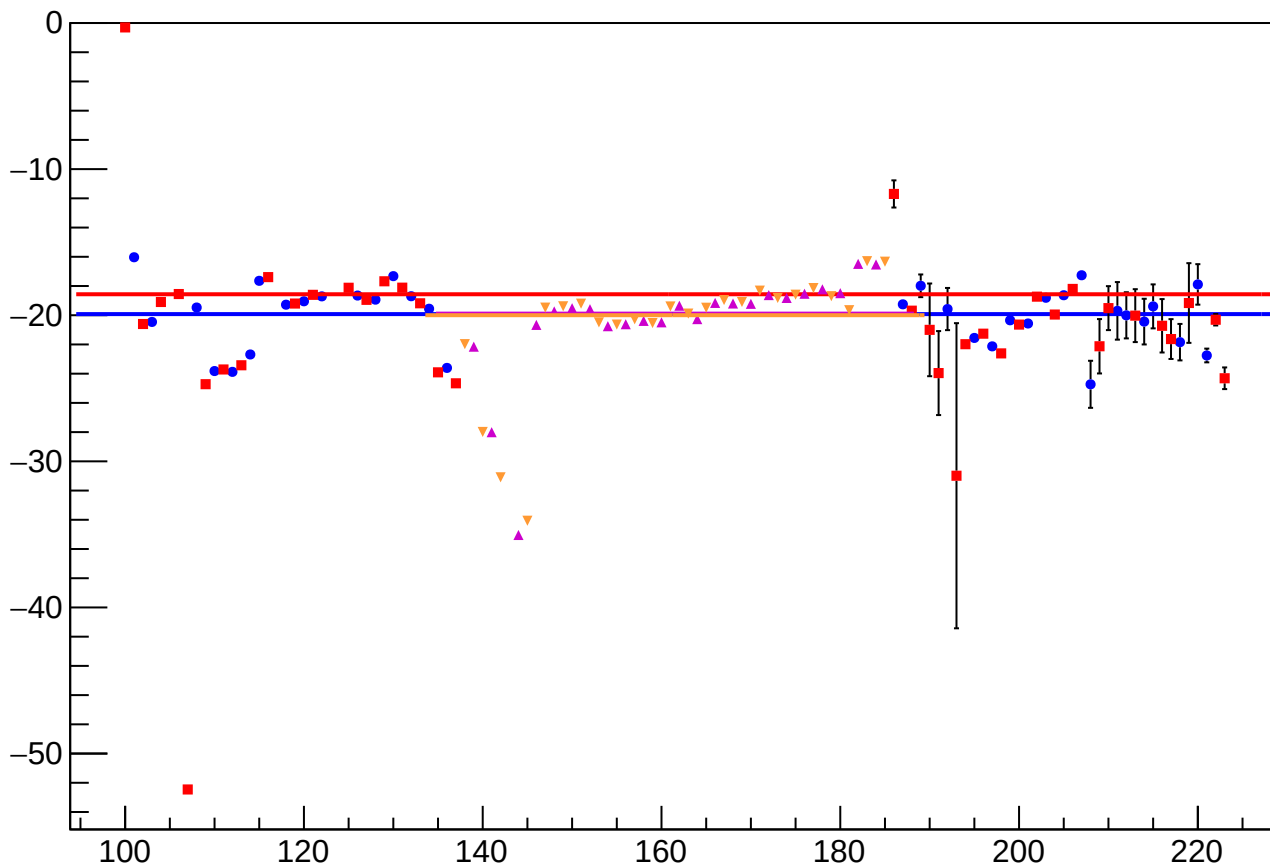
Right: 4.265 $\pm$ 0.177 χ^2 /NDF: 1167.8/71

In: 7.398 $\pm$ 0.141 χ^2 /NDF: 1161.6/56

Out: 7.050 $\pm$ 0.140 χ^2 /NDF: 1100.0/61

All: 7.223 $\pm$ 0.099 χ^2 /NDF: 2264.7/118

reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.923 ± 0.015 χ^2/NDF : 27138.2/33

Left Out: -19.998 ± 0.008 χ^2/NDF : 171944.6/23

Right Out: -18.564 ± 0.014 χ^2/NDF : 303815.4/37

Left In: -19.890 ± 0.008 χ^2/NDF : 144055.2/22

Left: -19.944 ± 0.006 χ^2/NDF : 316093.4/46

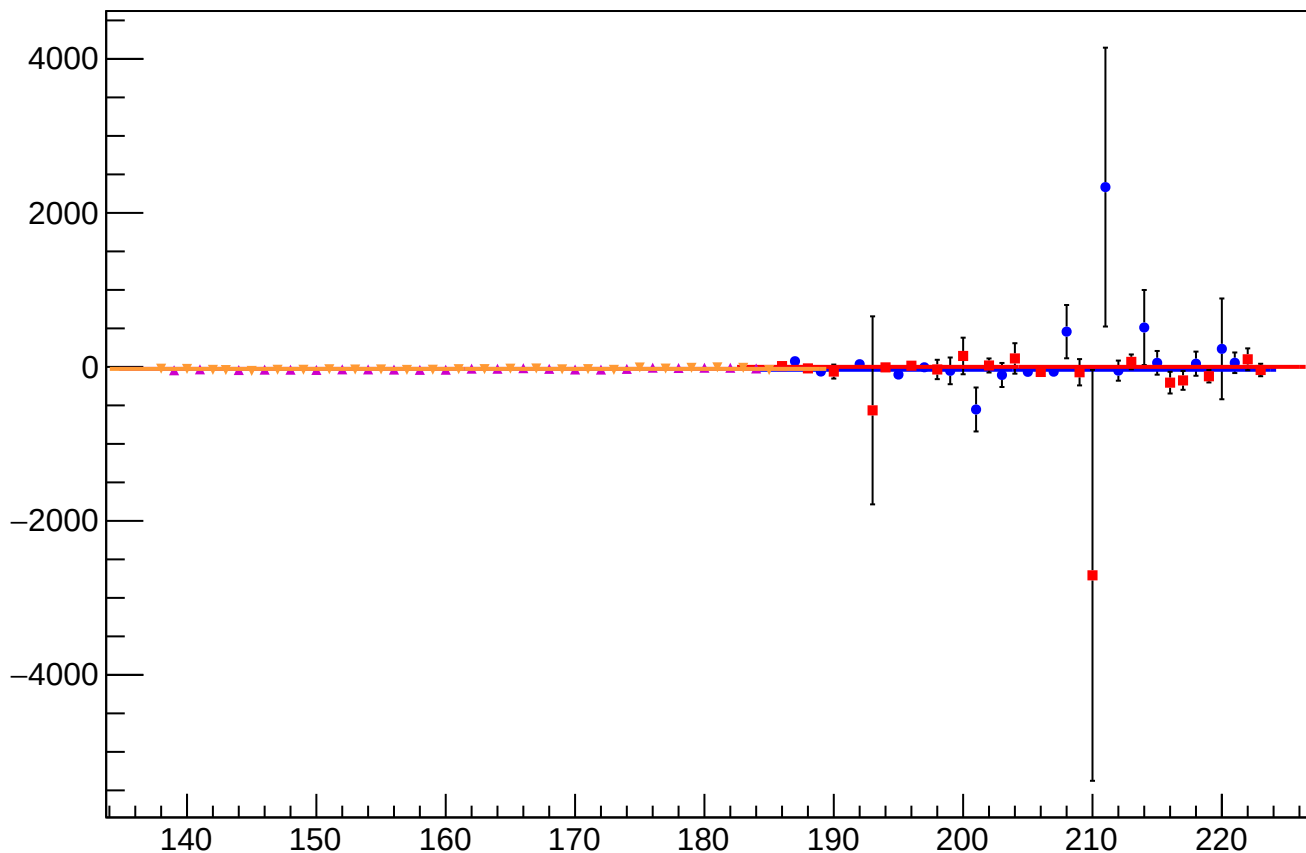
Right: -19.209 ± 0.010 χ^2/NDF : 335368.1/71

In: -19.897 ± 0.007 χ^2/NDF : 171197.2/56

Out: -19.656 ± 0.007 χ^2/NDF : 483648.7/61

All: -19.776 ± 0.005 χ^2/NDF : 655459.7/118

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected

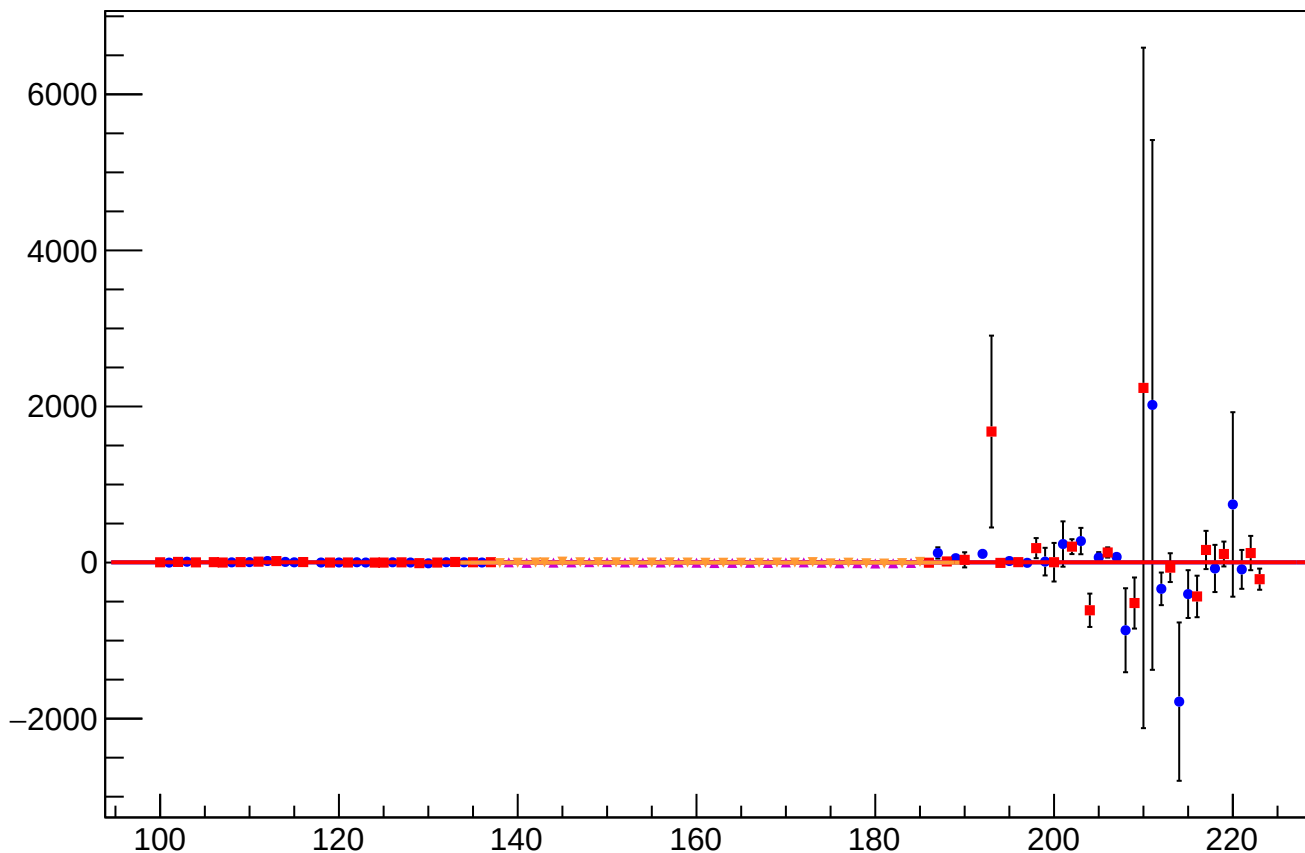


Right In: -37.422 ± 12.829 χ^2/NDF : 22.3/17
 Left Out: -25.884 ± 0.192 χ^2/NDF : 4158.0/24
 Right Out: 0.447 ± 7.960 χ^2/NDF : 14.6/18
 Left In: -26.052 ± 0.195 χ^2/NDF : 3279.5/22

Left: -25.967 ± 0.137 χ^2/NDF : 7437.8/47
 Right: -10.080 ± 6.764 χ^2/NDF : 43.1/36
 In: -26.055 ± 0.195 χ^2/NDF : 3302.6/40
 Out: -25.869 ± 0.192 χ^2/NDF : 4183.5/43

All: -25.960 ± 0.137 χ^2/NDF : 7486.5/84

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.475+/-0.315 χ^2/NDF : 324.6/34

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.714+/-0.327 χ^2/NDF : 299.1/37

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

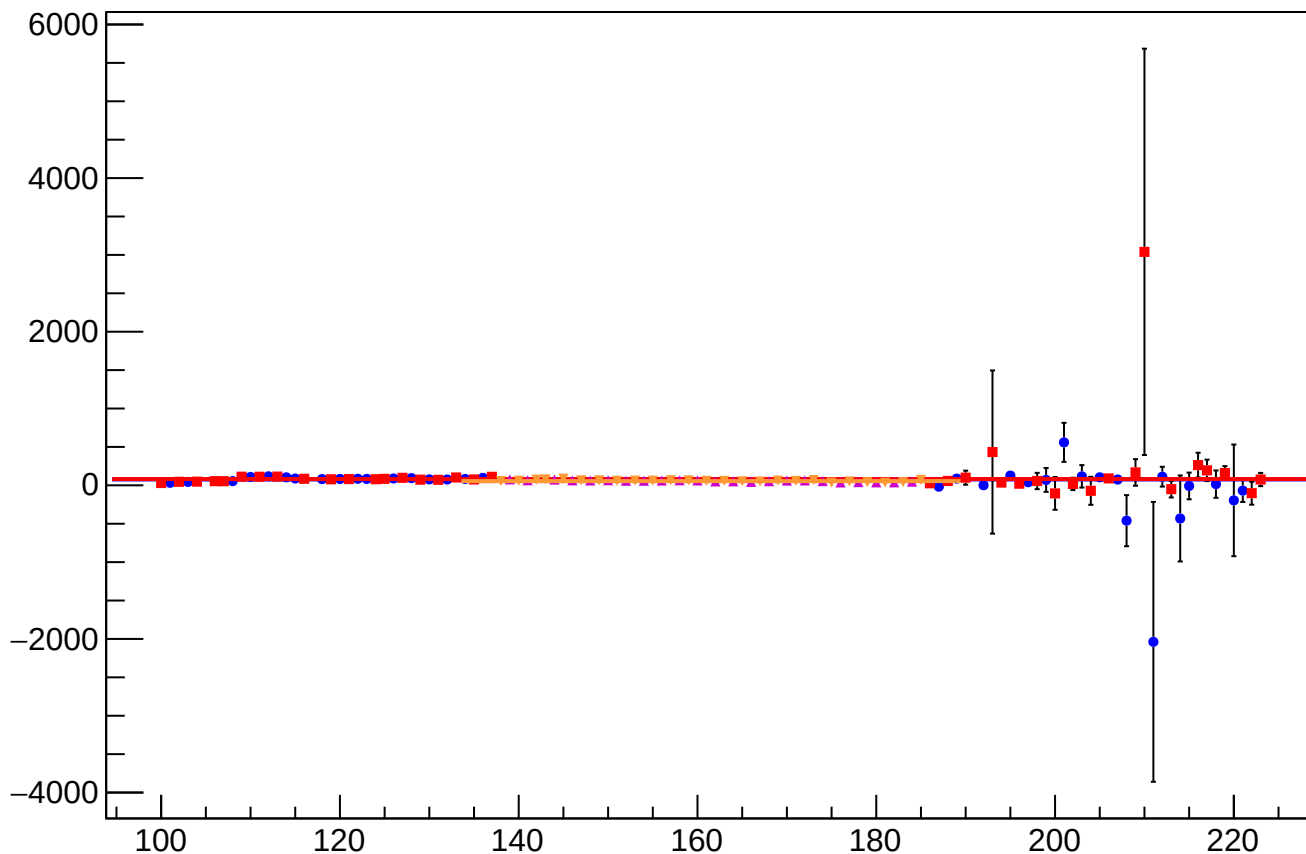
Right: 3.072+/-0.227 χ^2/NDF : 631.2/72

In: -0.242+/-0.136 χ^2/NDF : 1482.7/57

Out: 0.075+/-0.133 χ^2/NDF : 1769.0/62

All: -0.081+/-0.095 χ^2/NDF : 3254.5/120

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.528 $\pm$ 0.576 χ^2 /NDF: 2275.6/34

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.492 $\pm$ 0.590 χ^2 /NDF: 1639.8/37

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

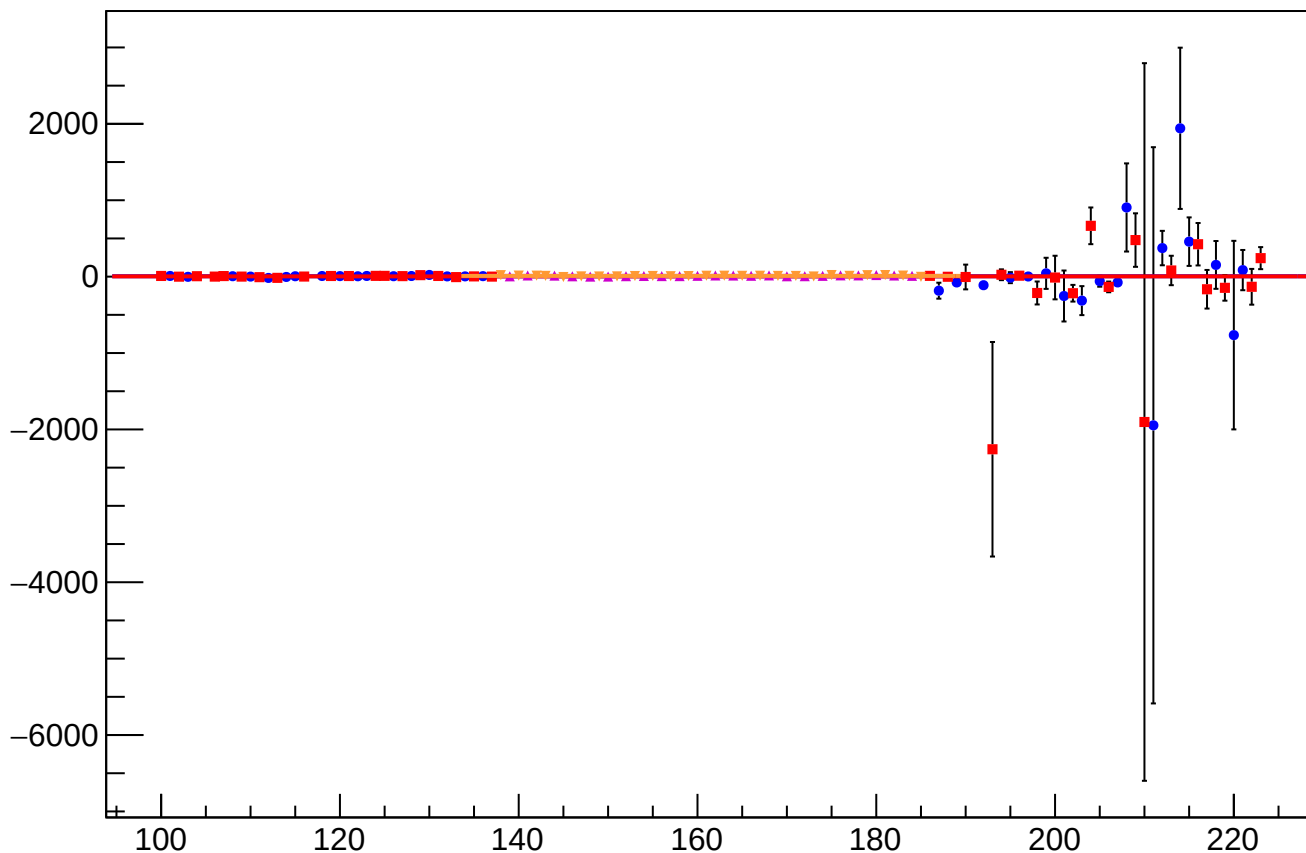
Right: 78.949 $\pm$ 0.412 χ^2 /NDF: 3951.6/72

In: 57.244 $\pm$ 0.183 χ^2 /NDF: 7224.9/57

Out: 57.610 $\pm$ 0.182 χ^2 /NDF: 8027.2/62

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15254.1/120

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.408 $\pm$ 0.361 χ^2 /NDF: 416.2/34

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.581 $\pm$ 0.375 χ^2 /NDF: 450.9/37

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

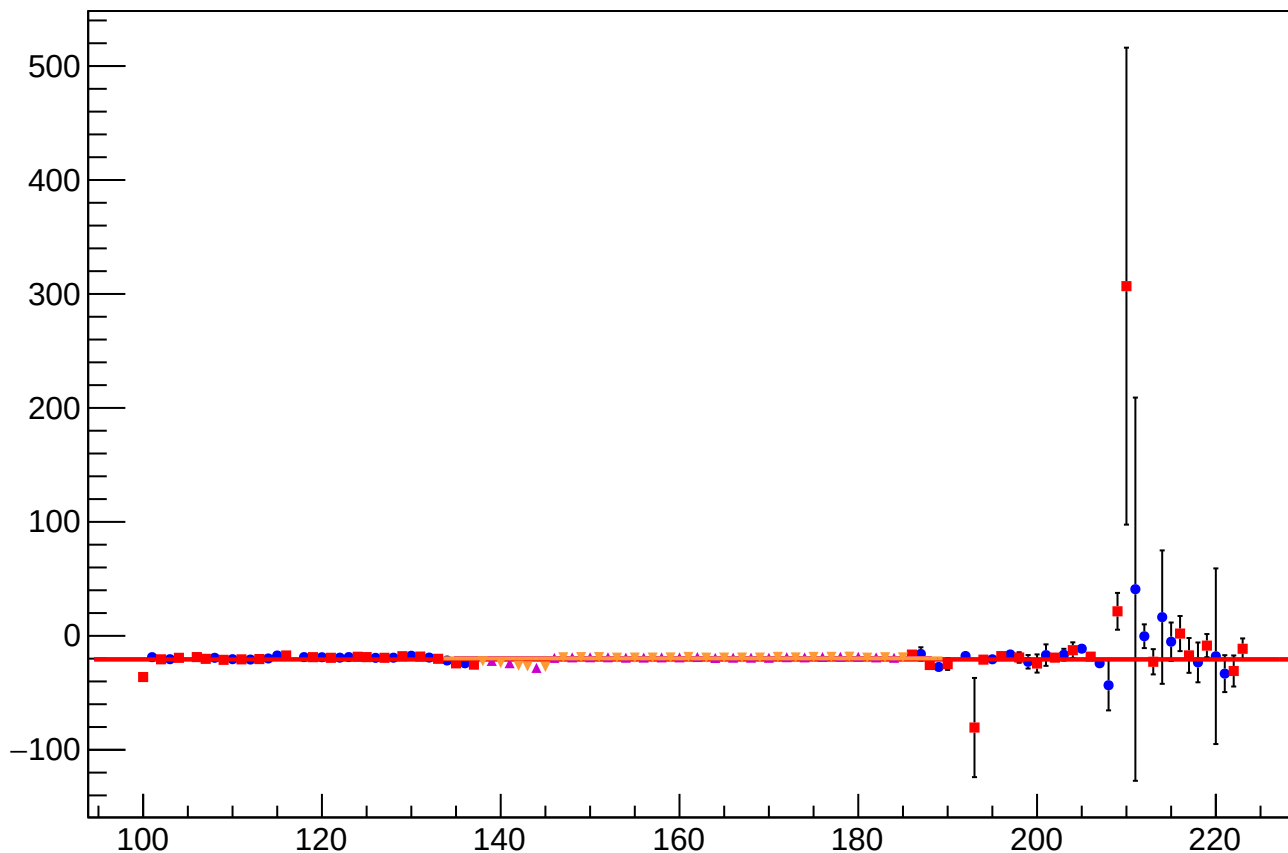
Right: 4.531 $\pm$ 0.260 χ^2 /NDF: 879.4/72

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1695.9/57

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2125.2/62

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3822.8/120

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 ± 0.019 $\chi^2/\text{NDF}: 12460.9/34$

Left Out: -19.767 ± 0.008 $\chi^2/\text{NDF}: 91617.3/24$

Right Out: -20.638 ± 0.019 $\chi^2/\text{NDF}: 13824.4/37$

Left In: -19.435 ± 0.008 $\chi^2/\text{NDF}: 53170.9/22$

Left: -19.603 ± 0.006 $\chi^2/\text{NDF}: 145665.0/47$

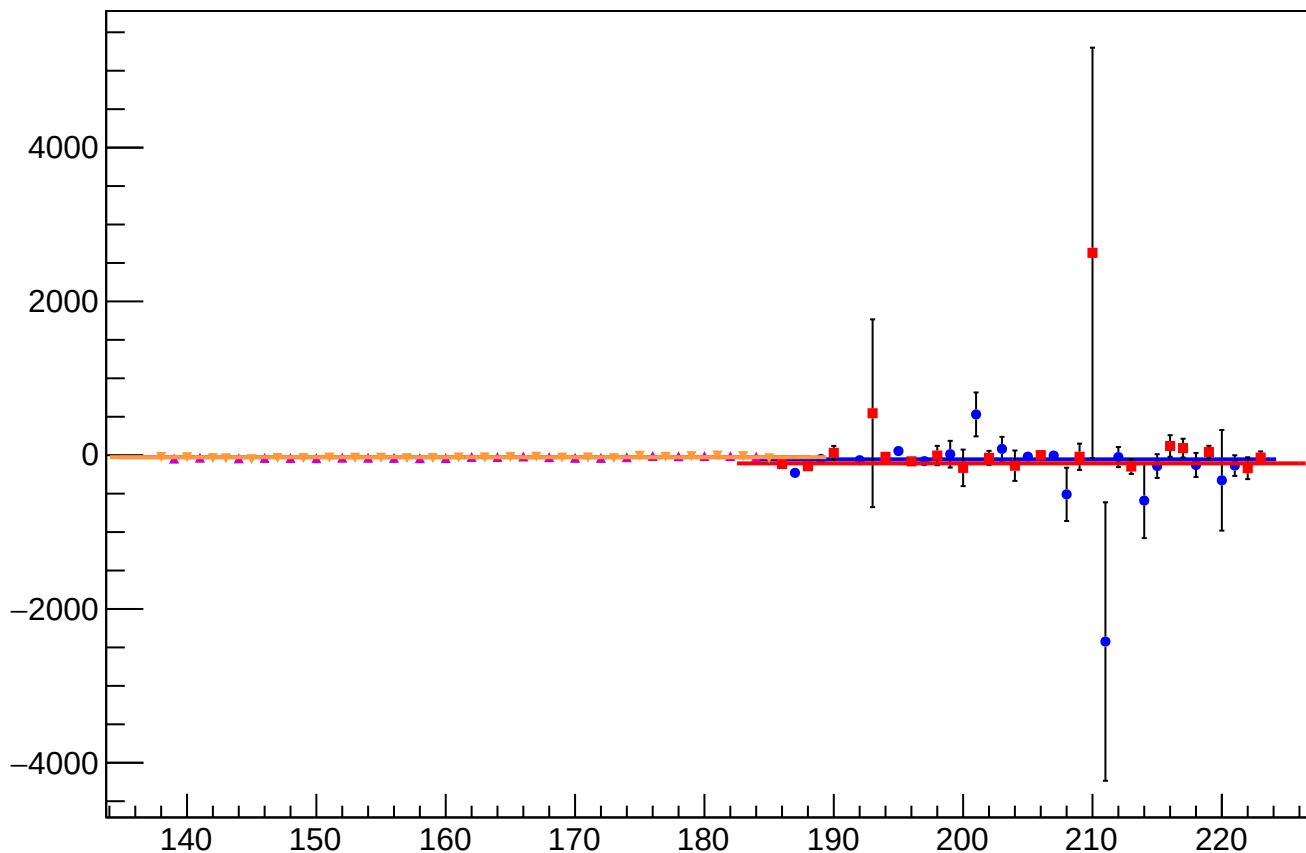
Right: -20.641 ± 0.014 $\chi^2/\text{NDF}: 26285.3/72$

In: -19.610 ± 0.007 $\chi^2/\text{NDF}: 68969.1/57$

Out: -19.890 ± 0.007 $\chi^2/\text{NDF}: 107163.5/62$

All: -19.751 ± 0.005 $\chi^2/\text{NDF}: 176861.1/120$

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -54.215 ± 12.838 χ^2/NDF : 33.4/17

Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24

Right Out: -106.424 ± 7.966 χ^2/NDF : 26.8/18

Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47

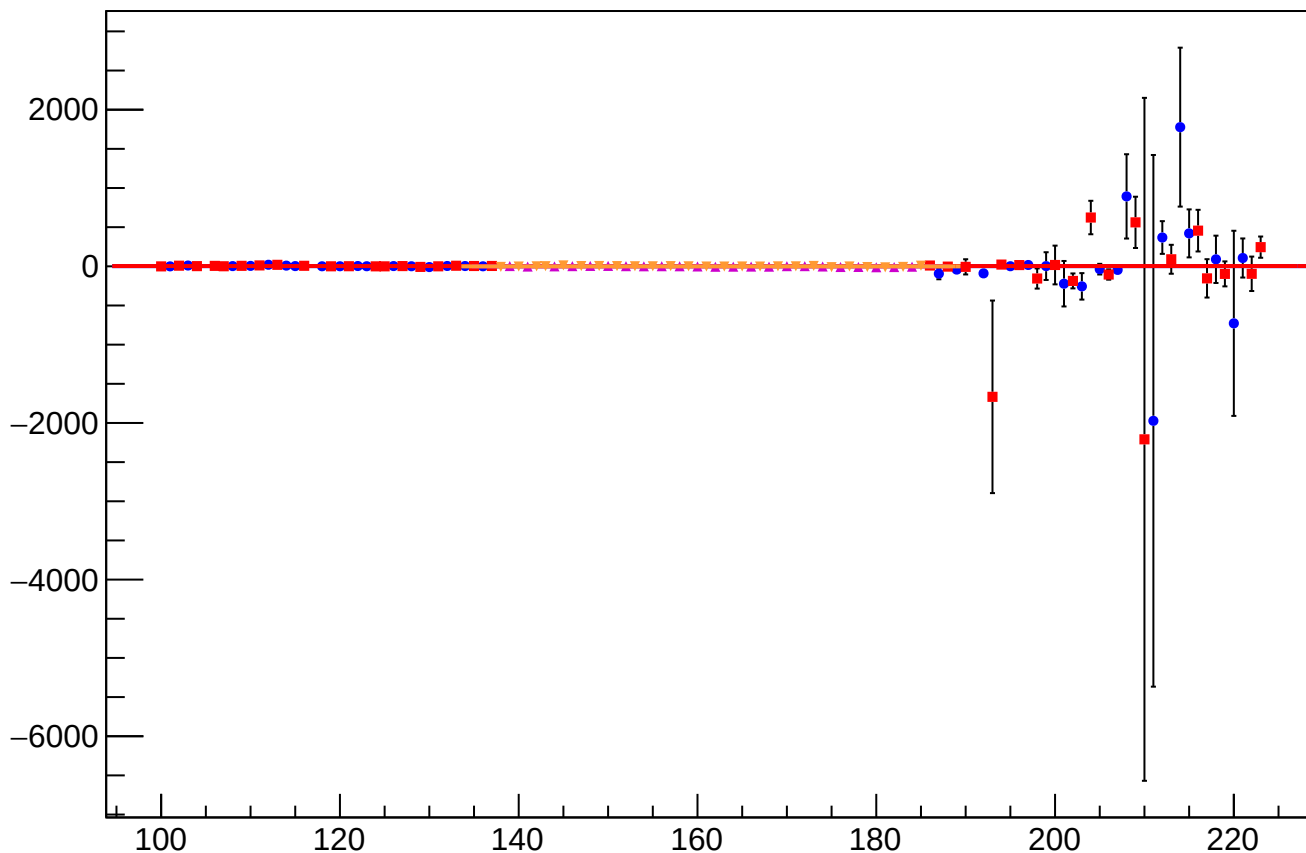
Right: -91.912 ± 6.769 χ^2/NDF : 72.2/36

In: -26.053 ± 0.195 χ^2/NDF : 3284.9/40

Out: -25.946 ± 0.192 χ^2/NDF : 4256.5/43

All: -25.998 ± 0.137 χ^2/NDF : 7541.6/84

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.440 ± 0.315 χ^2/NDF : 317.2/34

Left Out: -0.596 ± 0.146 χ^2/NDF : 1310.7/24

Right Out: 3.594 ± 0.318 χ^2/NDF : 309.5/37

Left In: -0.795 ± 0.151 χ^2/NDF : 1106.3/22

Left: -0.693 ± 0.105 χ^2/NDF : 2417.9/47

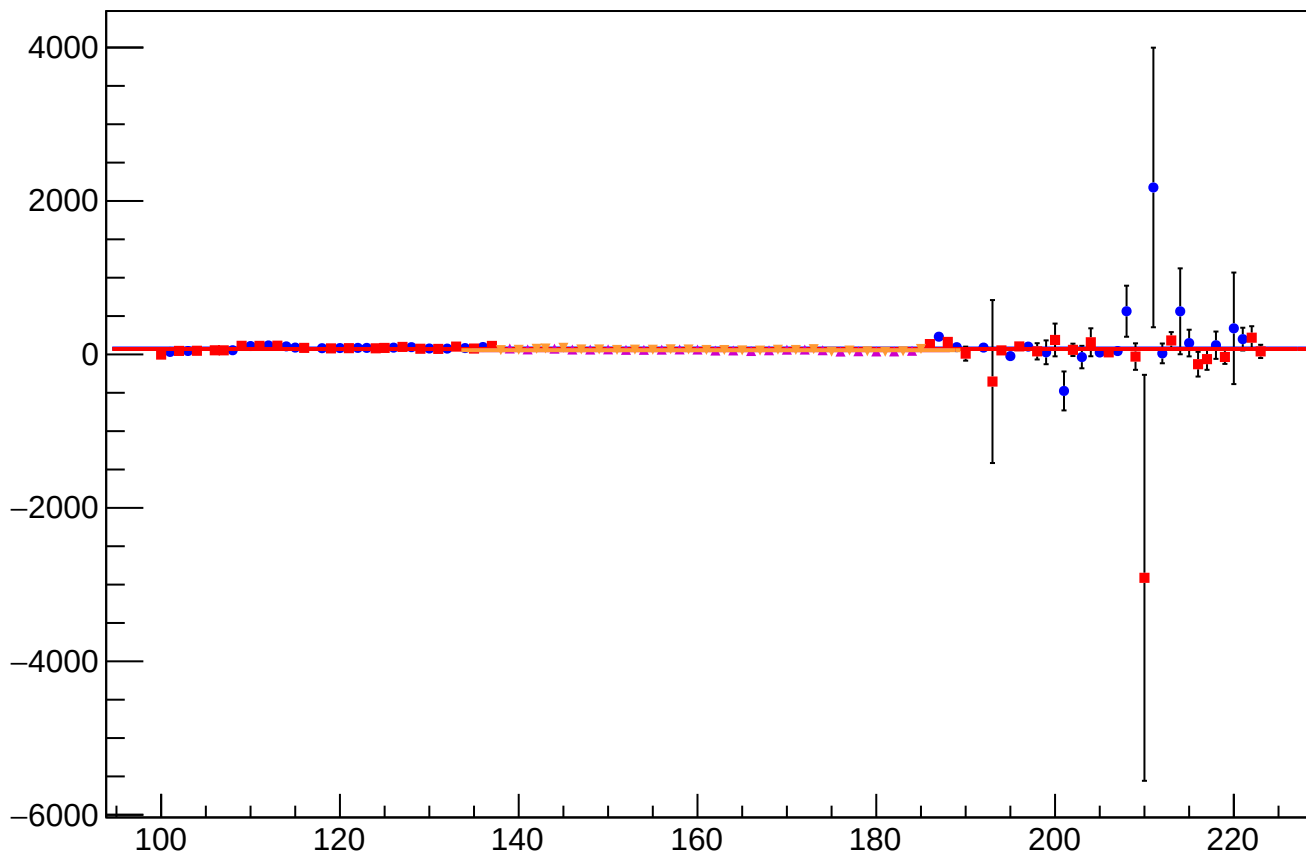
Right: 3.012 ± 0.224 χ^2/NDF : 633.3/72

In: -0.193 ± 0.136 χ^2/NDF : 1509.3/57

Out: 0.136 ± 0.133 χ^2/NDF : 1763.6/62

All: -0.025 ± 0.095 χ^2/NDF : 3275.9/120

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.712 $\pm$ 0.576 χ^2 /NDF: 2301.8/34

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.743 $\pm$ 0.549 χ^2 /NDF: 4499.9/37

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

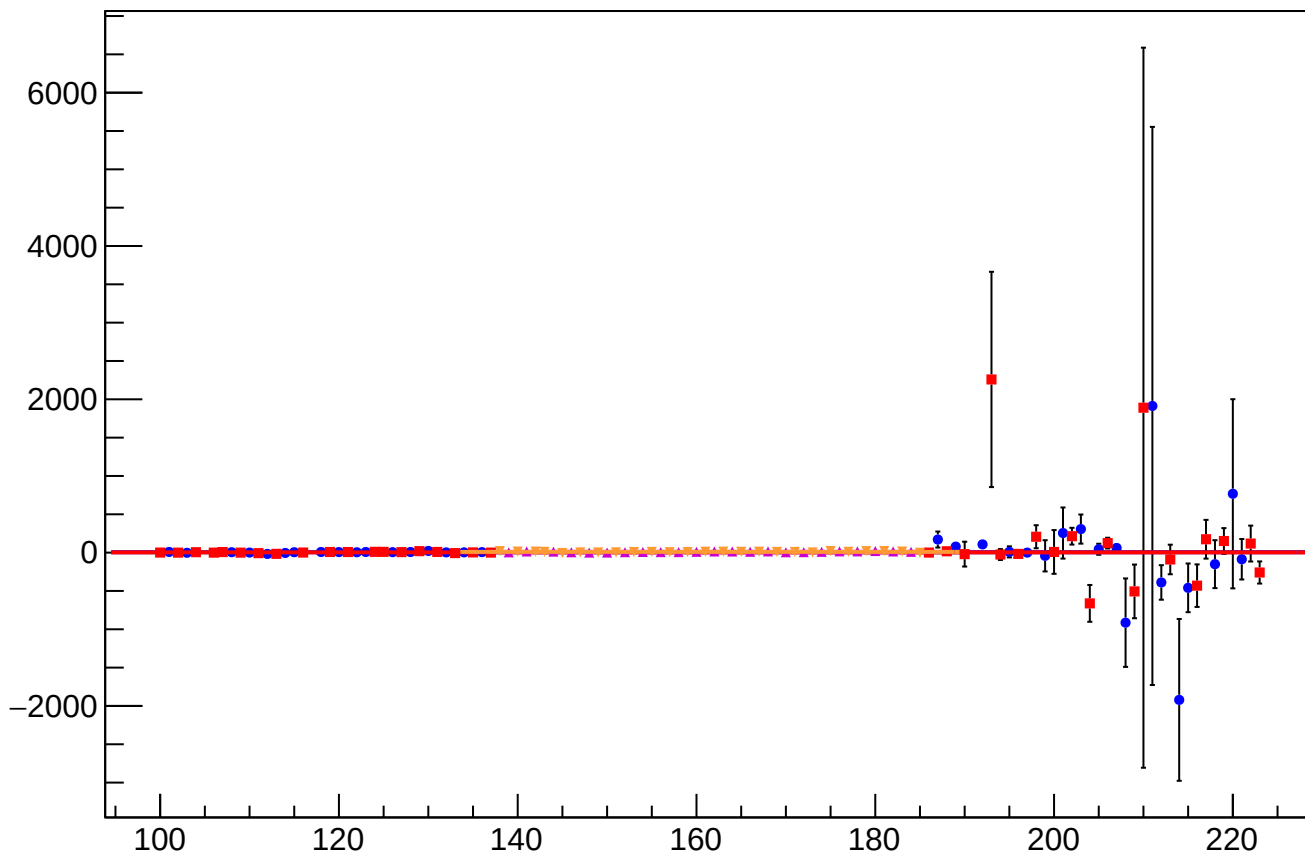
Right: 73.580 $\pm$ 0.397 χ^2 /NDF: 6858.0/72

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7230.2/57

Out: 56.810 $\pm$ 0.181 χ^2 /NDF: 9783.8/62

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17017.4/120

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.443 $\pm$ 0.361 χ^2 /NDF: 410.4/34

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.281 $\pm$ 0.365 χ^2 /NDF: 454.0/37

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

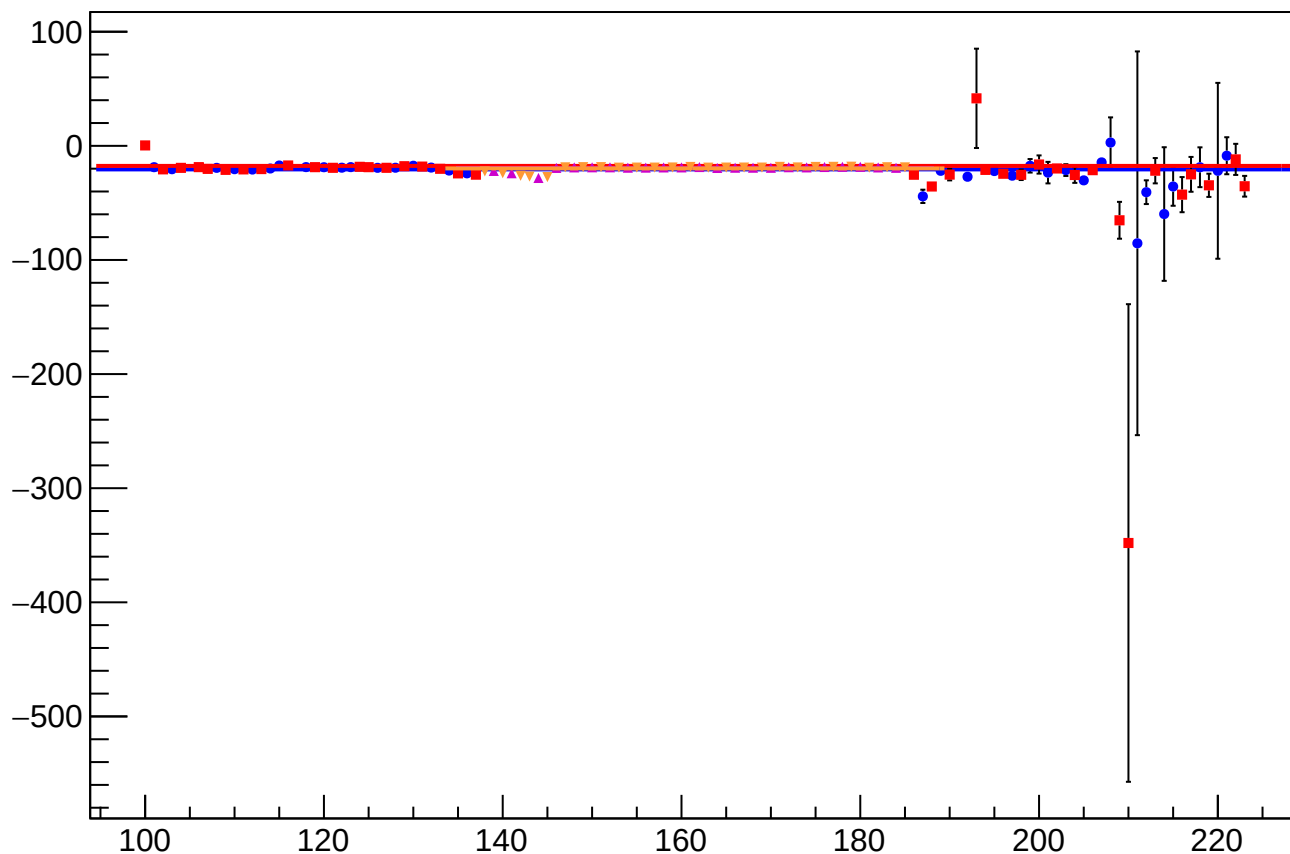
Right: 4.375 $\pm$ 0.257 χ^2 /NDF: 882.1/72

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1716.9/57

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2148.1/62

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3868.1/120

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 $\chi^2/\text{NDF}: 12521.5/34$

Left Out: -19.775 ± 0.008 $\chi^2/\text{NDF}: 91510.1/24$

Right Out: -17.576 ± 0.018 $\chi^2/\text{NDF}: 178462.7/37$

Left In: -19.445 ± 0.008 $\chi^2/\text{NDF}: 53124.1/22$

Left: -19.611 ± 0.006 $\chi^2/\text{NDF}: 145502.5/47$

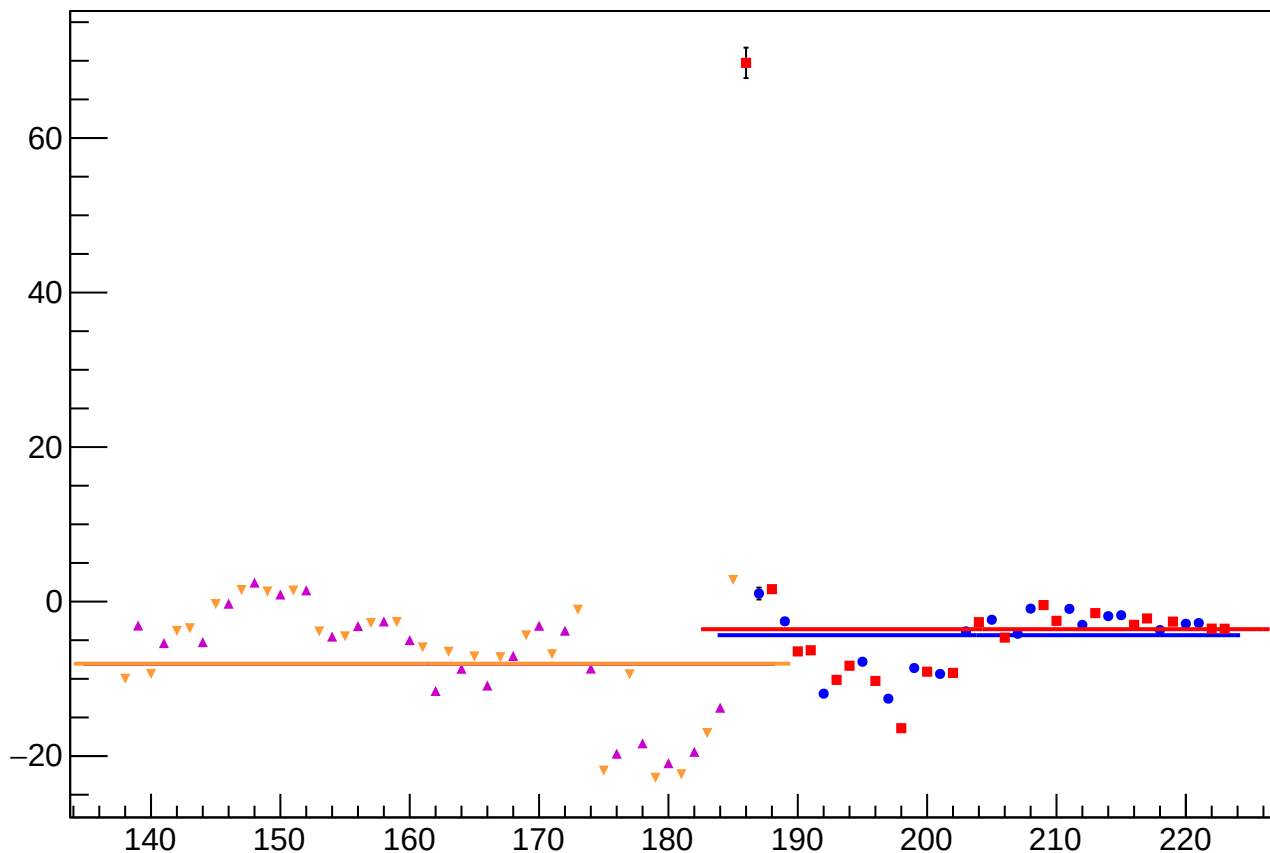
Right: -19.003 ± 0.013 $\chi^2/\text{NDF}: 204453.1/72$

In: -19.618 ± 0.007 $\chi^2/\text{NDF}: 68943.4/57$

Out: -19.422 ± 0.007 $\chi^2/\text{NDF}: 282447.7/62$

All: -19.518 ± 0.005 $\chi^2/\text{NDF}: 351754.2/120$

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

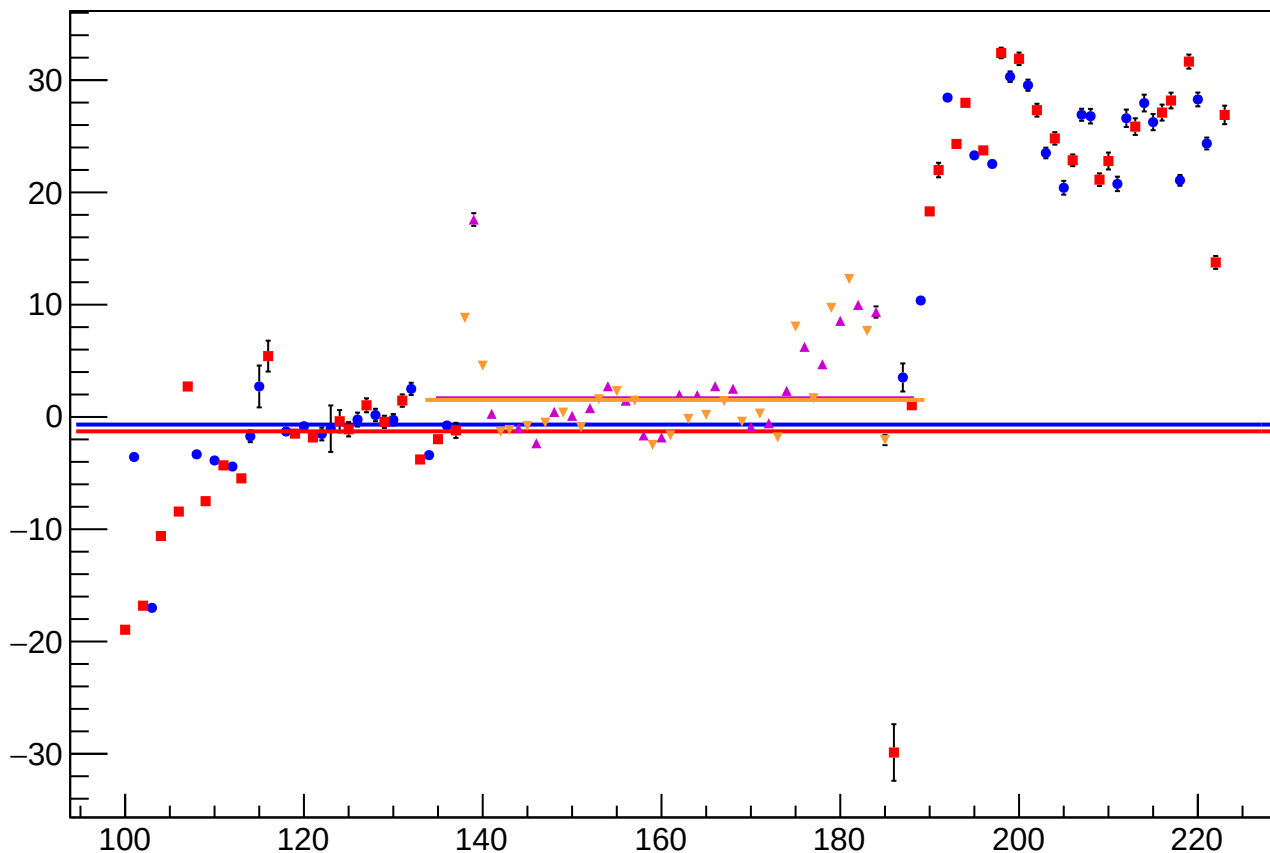


Right In: -4.352 ± 0.089 χ^2/NDF : 1617.9/17
 Left Out: -8.034 ± 0.070 χ^2/NDF : 12568.0/24
 Right Out: -3.575 ± 0.083 χ^2/NDF : 4173.0/19
 Left In: -8.078 ± 0.072 χ^2/NDF : 10541.6/22

Left: -8.055 ± 0.050 χ^2/NDF : 23109.8/47
 Right: -3.937 ± 0.060 χ^2/NDF : 5832.0/37
 In: -6.597 ± 0.056 χ^2/NDF : 13226.2/40
 Out: -6.164 ± 0.054 χ^2/NDF : 18428.1/44

All: -6.372 ± 0.039 χ^2/NDF : 31685.7/85

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.678 ± 0.050 $\chi^2/\text{NDF}: 57453.0/34$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -1.283 ± 0.053 $\chi^2/\text{NDF}: 66191.9/38$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

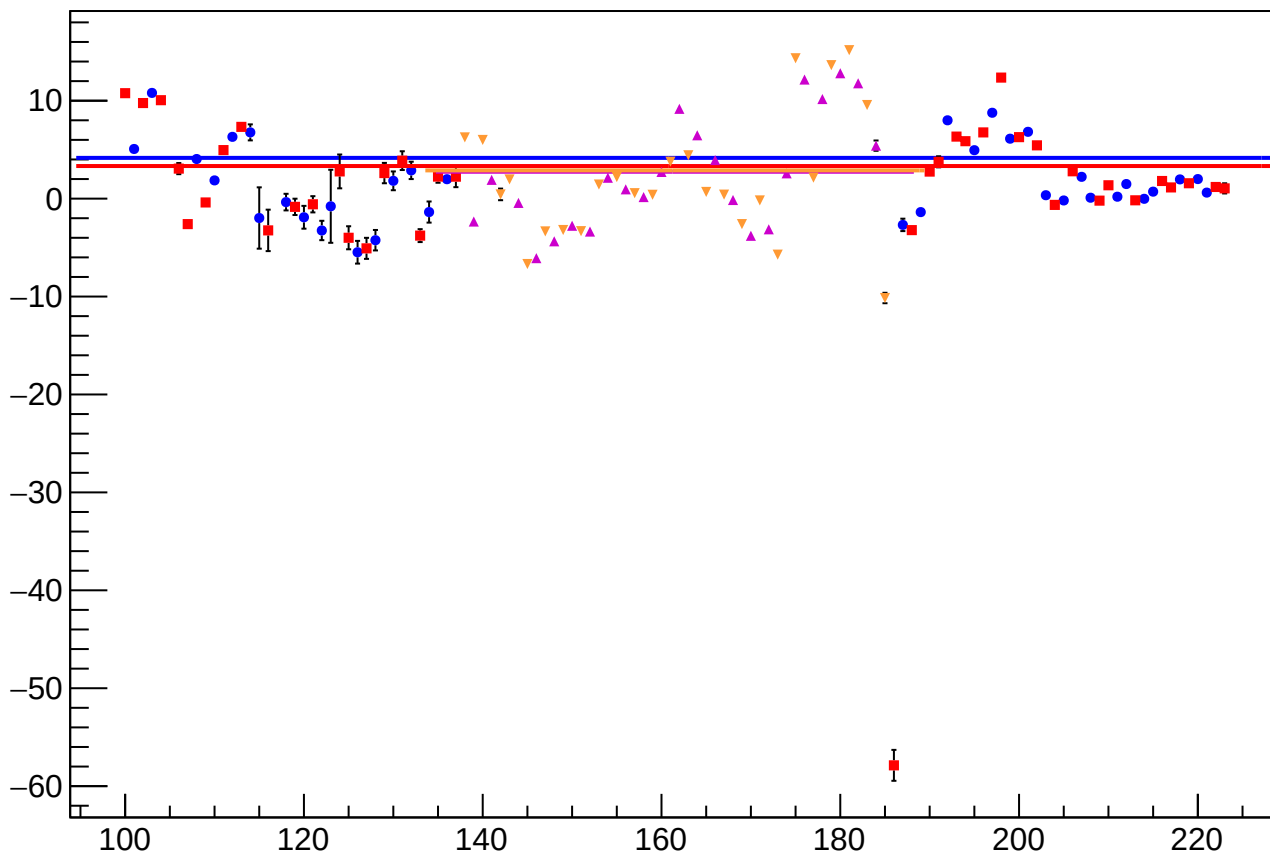
Right: -0.967 ± 0.036 $\chi^2/\text{NDF}: 123714.1/73$

In: 0.353 ± 0.038 $\chi^2/\text{NDF}: 62444.3/57$

Out: 0.070 ± 0.038 $\chi^2/\text{NDF}: 72412.5/63$

All: 0.213 ± 0.027 $\chi^2/\text{NDF}: 134885.1/121$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.163 ± 0.062 $\chi^2/\text{NDF}: 3509.3/34$

Left Out: 2.884 ± 0.070 $\chi^2/\text{NDF}: 8893.2/24$

Right Out: 3.329 ± 0.060 $\chi^2/\text{NDF}: 8201.9/38$

Left In: 2.745 ± 0.071 $\chi^2/\text{NDF}: 7183.1/22$

Left: 2.816 ± 0.050 $\chi^2/\text{NDF}: 16078.2/47$

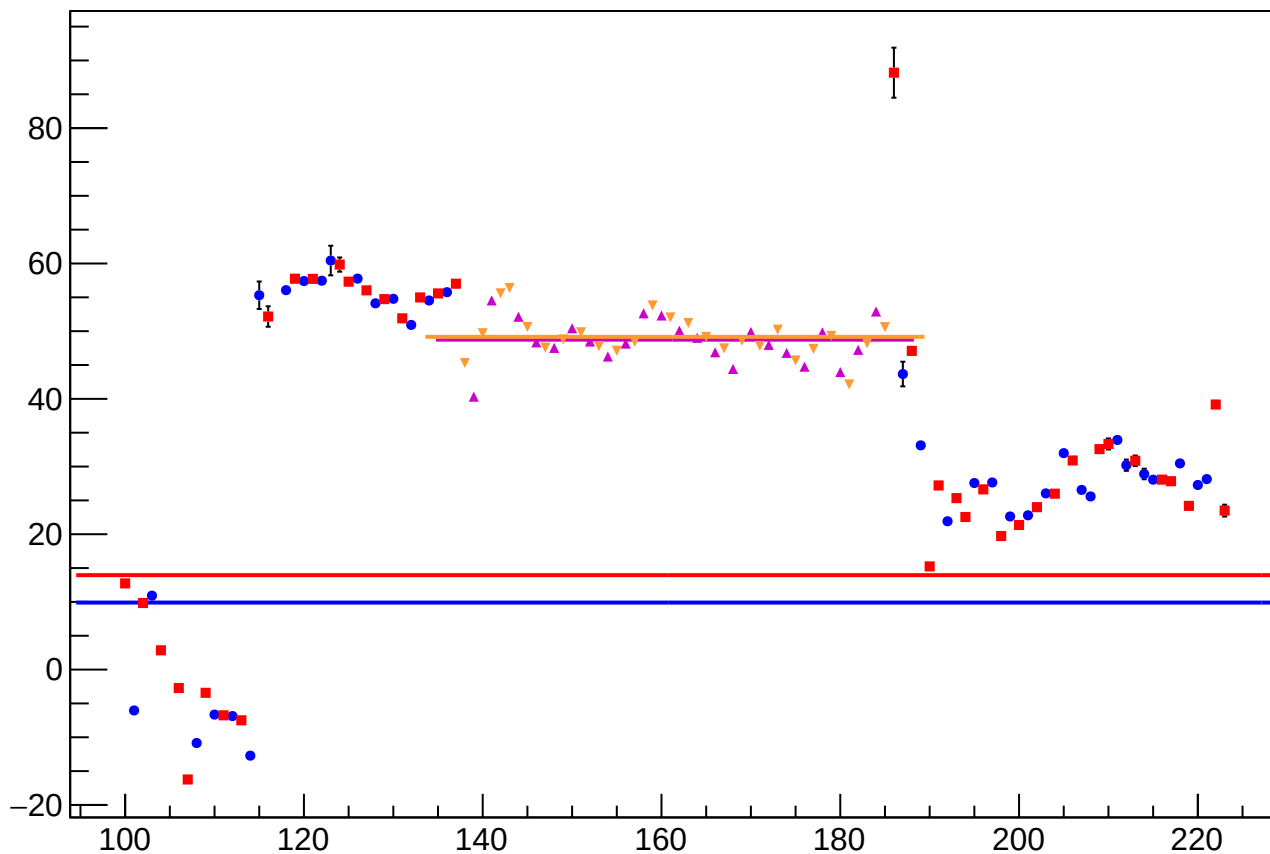
Right: 3.729 ± 0.043 $\chi^2/\text{NDF}: 11803.9/73$

In: 3.549 ± 0.047 $\chi^2/\text{NDF}: 10915.5/57$

Out: 3.142 ± 0.046 $\chi^2/\text{NDF}: 17118.3/63$

All: 3.339 ± 0.033 $\chi^2/\text{NDF}: 28072.4/121$

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.903+/-0.059 χ^2/NDF : 139757.3/34

Left Out: 49.163+/-0.062 χ^2/NDF :2259.9/24

Right Out: 13.952+/-0.062 χ^2/NDF : 140683.2/38

Left In: 48.744+/-0.064 χ^2/NDF :2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

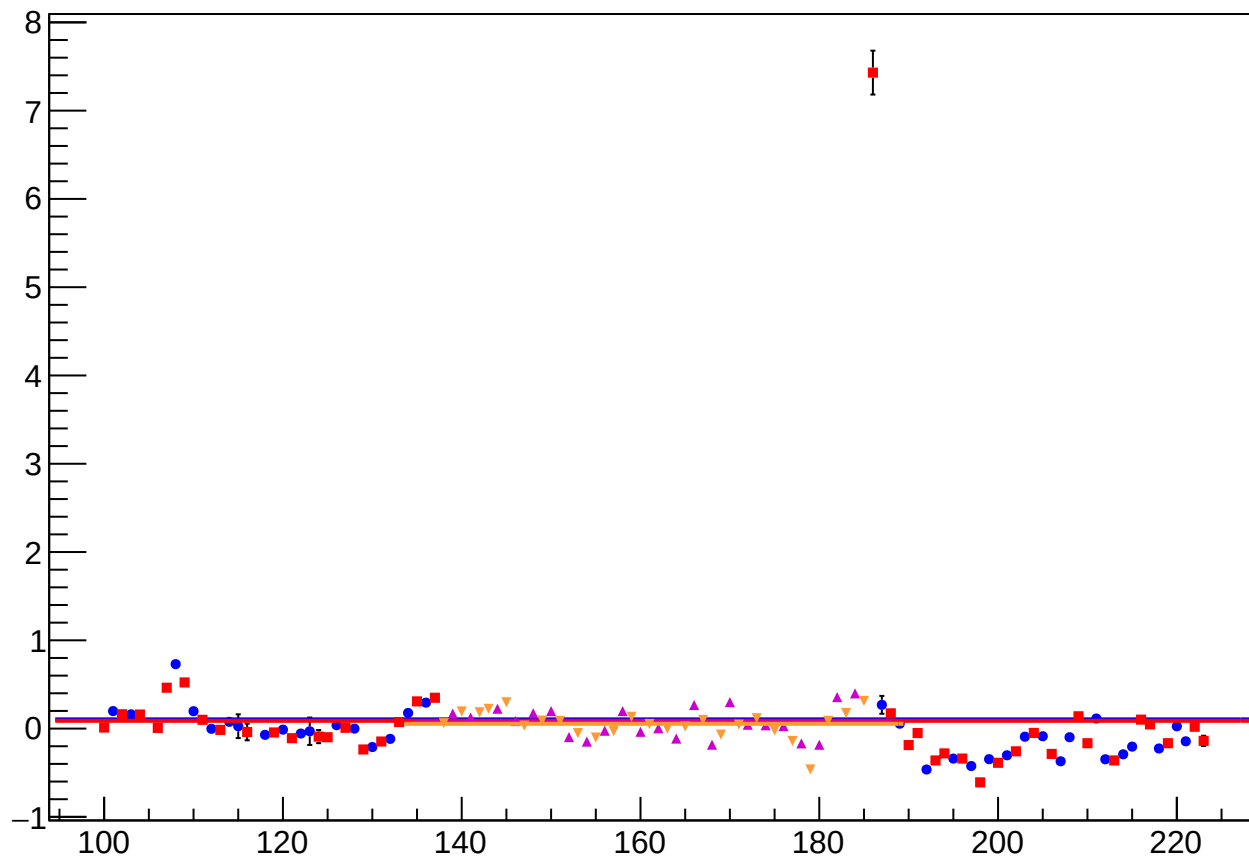
Right: 11.823+/-0.043 χ^2/NDF : 282679.6/73

In: 27.794+/-0.043 χ^2/NDF :341973.0/57

Out: 31.647+/-0.044 χ^2/NDF :304745.8/63

All: 29.699+/-0.031 χ^2/NDF : 650636.5/121

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.105+/-0.002 χ^2/NDF : 12056.6/34

Left Out: 0.054+/-0.003 χ^2/NDF : 2379.8/24

Right Out: 0.088+/-0.002 χ^2/NDF : 11171.7/38

Left In: 0.070+/-0.003 χ^2/NDF : 3233.8/22

Left: 0.062+/-0.002 χ^2/NDF : 5630.0/47

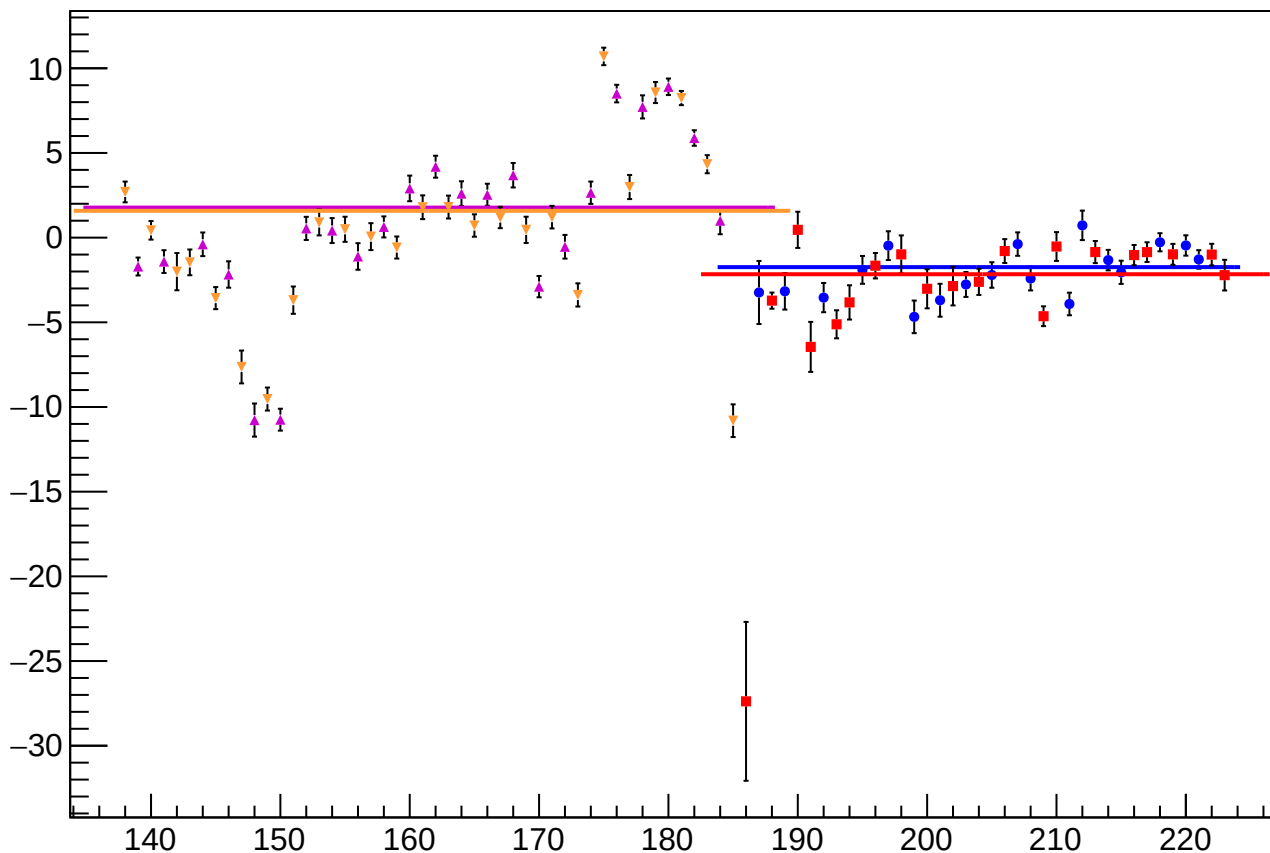
Right: 0.096+/-0.002 χ^2/NDF : 23252.0/73

In: 0.090+/-0.002 χ^2/NDF : 15373.4/57

Out: 0.074+/-0.002 χ^2/NDF : 13637.5/63

All: 0.082+/-0.001 χ^2/NDF : 29049.2/121

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.741 ± 0.173 χ^2/NDF : 61.5/17

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -2.161 ± 0.170 χ^2/NDF : 117.3/19

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

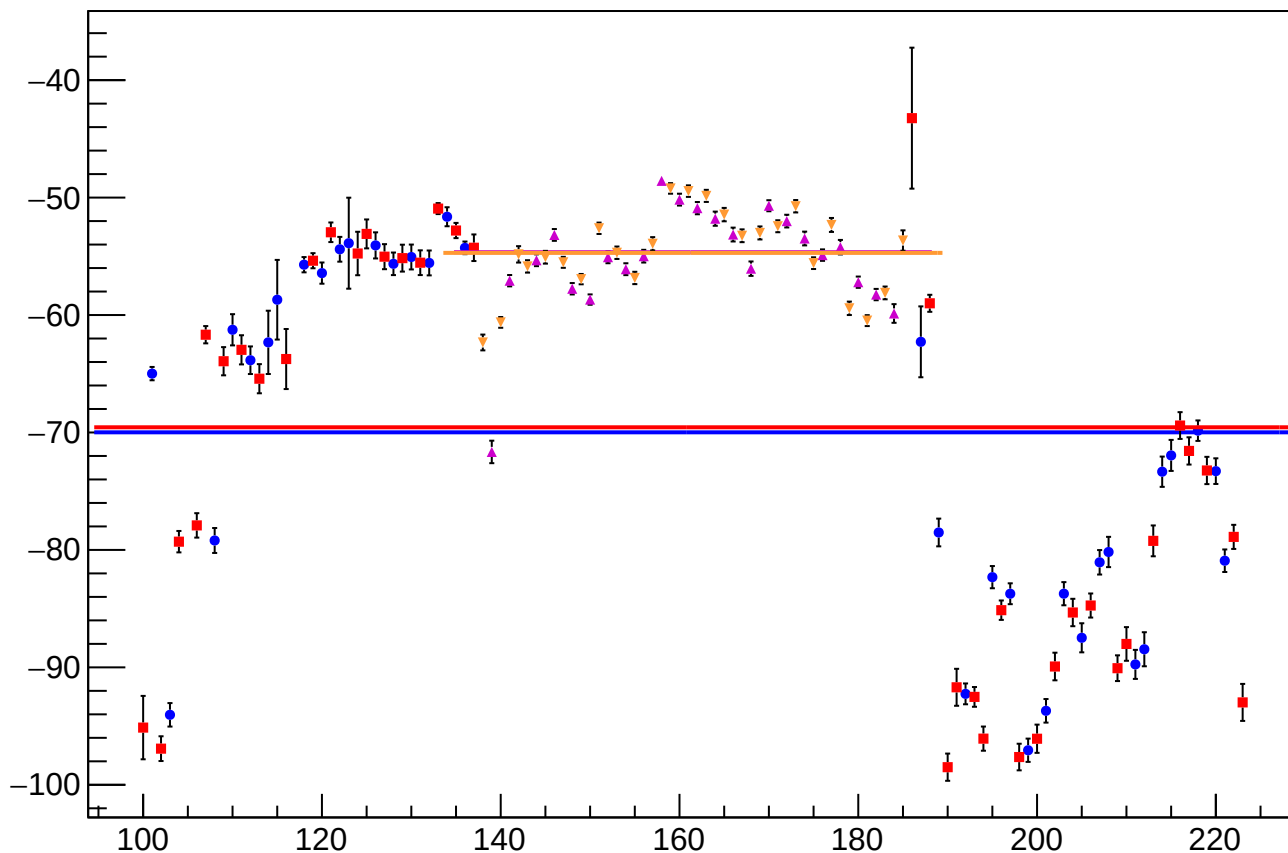
Right: -1.955 ± 0.121 χ^2/NDF : 181.8/37

In: 0.445 ± 0.107 χ^2/NDF : 1614.3/40

Out: 0.164 ± 0.105 χ^2/NDF : 1878.2/44

All: 0.302 ± 0.075 χ^2/NDF : 3496.0/85

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.987 ± 0.169 $\chi^2/\text{NDF}: 7480.7/34$

Left Out: -54.707 ± 0.106 $\chi^2/\text{NDF}: 1126.0/24$

Right Out: -69.558 ± 0.161 $\chi^2/\text{NDF}: 10705.9/38$

Left In: -54.650 ± 0.110 $\chi^2/\text{NDF}: 1077.1/22$

Left: -54.680 ± 0.076 $\chi^2/\text{NDF}: 2203.2/47$

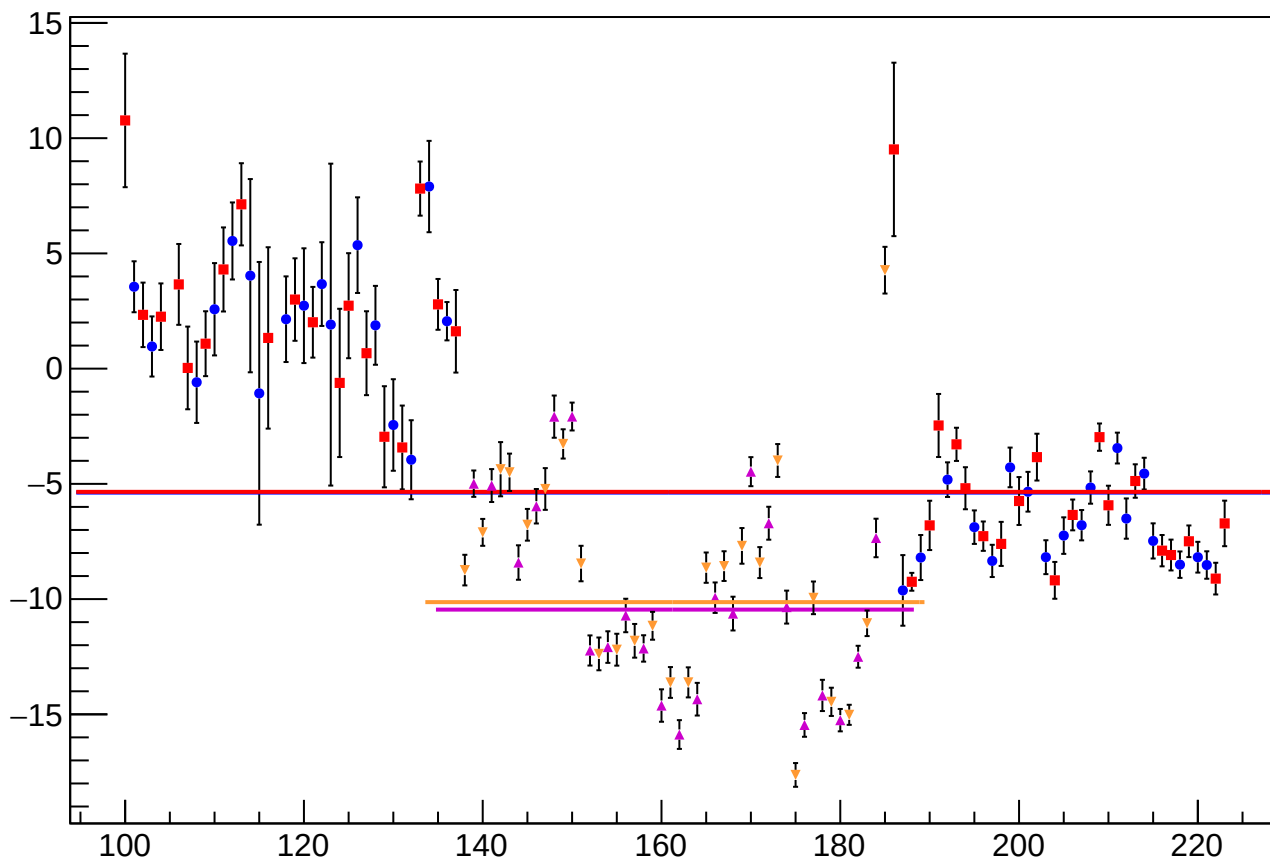
Right: -69.763 ± 0.117 $\chi^2/\text{NDF}: 18190.1/73$

In: -59.197 ± 0.092 $\chi^2/\text{NDF}: 14344.5/57$

Out: -59.175 ± 0.088 $\chi^2/\text{NDF}: 17770.8/63$

All: -59.185 ± 0.064 $\chi^2/\text{NDF}: 32115.3/121$

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.378 ± 0.160 χ^2/NDF : 545.1/34

Left Out: -10.131 ± 0.133 χ^2/NDF : 1055.4/24

Right Out: -5.346 ± 0.153 χ^2/NDF : 756.1/38

Left In: -10.456 ± 0.135 χ^2/NDF : 1002.7/22

Left: -10.291 ± 0.095 χ^2/NDF : 2061.1/47

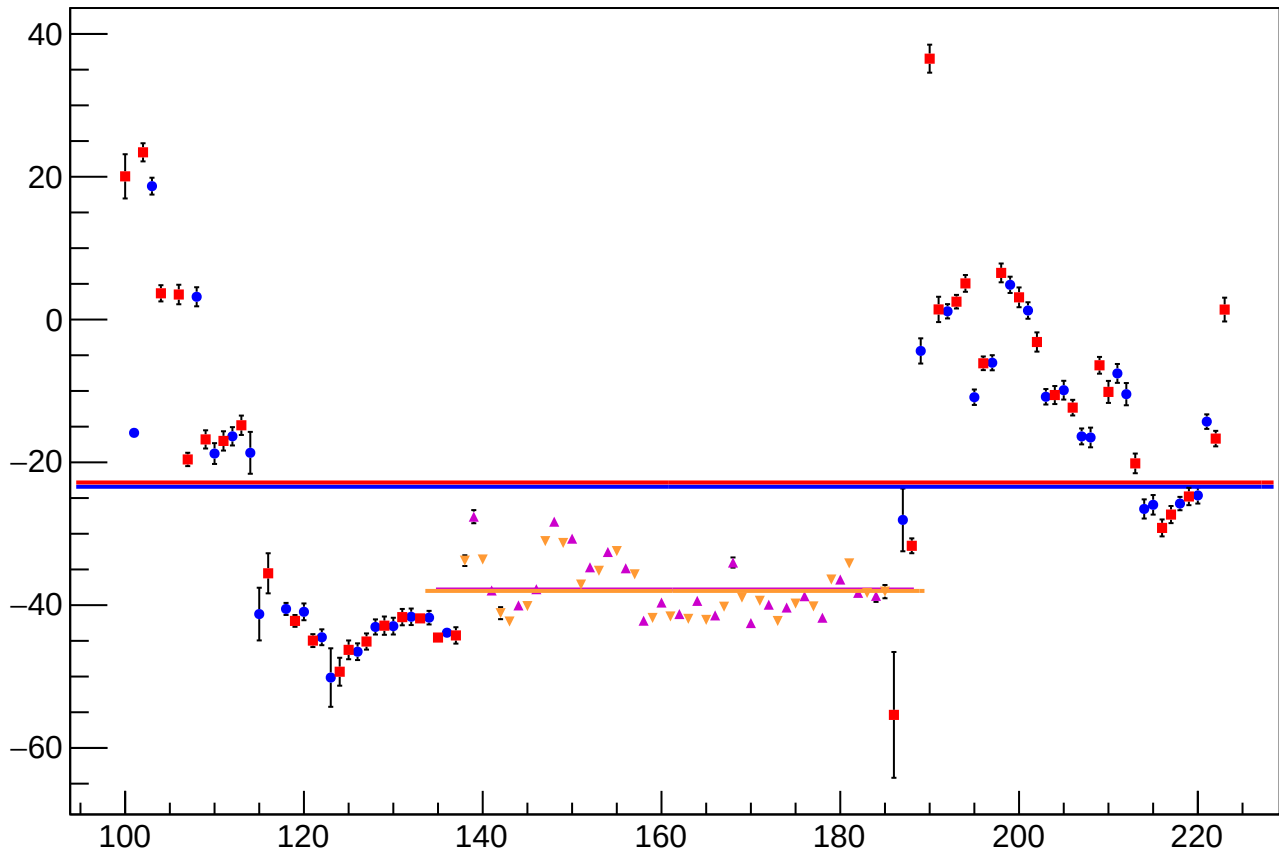
Right: -5.361 ± 0.110 χ^2/NDF : 1301.2/73

In: -8.346 ± 0.103 χ^2/NDF : 2138.9/57

Out: -8.069 ± 0.100 χ^2/NDF : 2371.1/63

All: -8.204 ± 0.072 χ^2/NDF : 4513.7/121

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.417 ± 0.190 χ^2/NDF : 8757.8/34

Left Out: -38.006 ± 0.119 χ^2/NDF : 946.0/24

Right Out: -22.818 ± 0.185 χ^2/NDF : 12179.7/38

Left In: -37.809 ± 0.122 χ^2/NDF : 1039.9/22

Left: -37.910 ± 0.085 χ^2/NDF : 1987.2/47

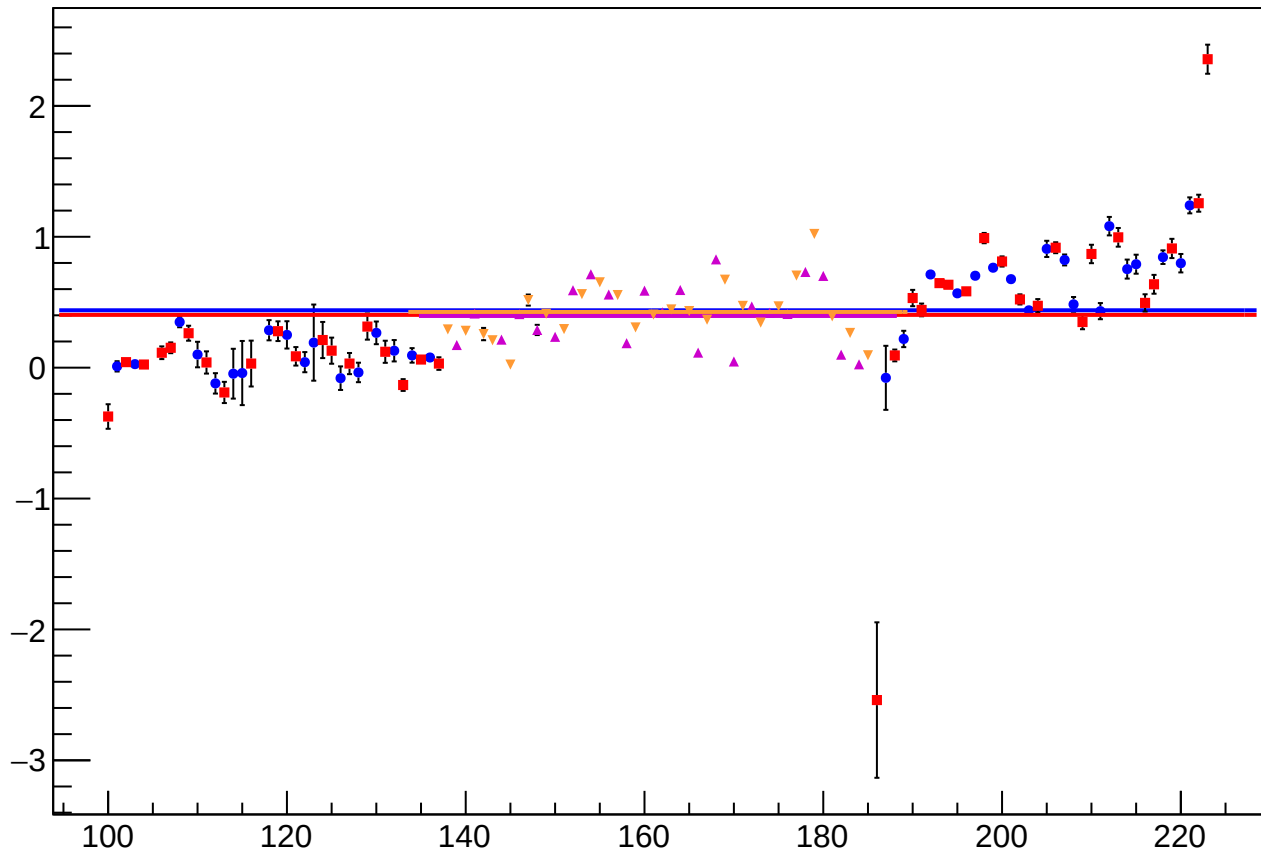
Right: -23.109 ± 0.133 χ^2/NDF : 20942.6/73

In: -33.606 ± 0.103 χ^2/NDF : 13842.4/57

Out: -33.571 ± 0.100 χ^2/NDF : 17904.2/63

All: -33.588 ± 0.072 χ^2/NDF : 31746.7/121

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.438 $\pm$ 0.008 χ^2 /NDF: 1675.1/34

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.403 $\pm$ 0.008 χ^2 /NDF: 2266.8/38

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

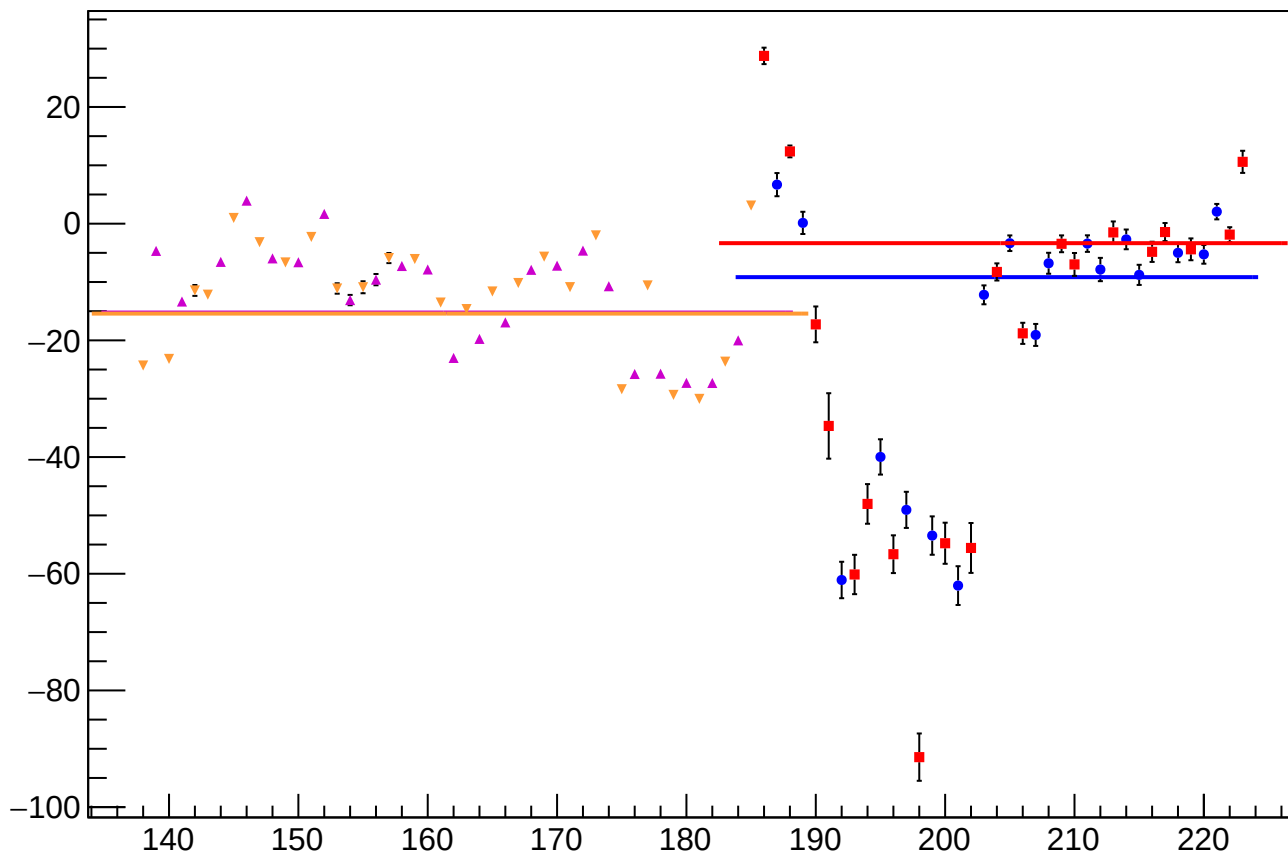
Right: 0.420 $\pm$ 0.006 χ^2 /NDF: 3951.2/73

In: 0.408 $\pm$ 0.005 χ^2 /NDF:3492.6/57

Out: 0.419 $\pm$ 0.004 χ^2 /NDF:3575.9/63

All: 0.414 $\pm$ 0.003 χ^2 /NDF: 7071.3/121

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.165 ± 0.433 $\chi^2/\text{NDF}: 1235.8/17$
 Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$
 Right Out: -3.341 ± 0.415 $\chi^2/\text{NDF}: 2520.6/19$
 Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

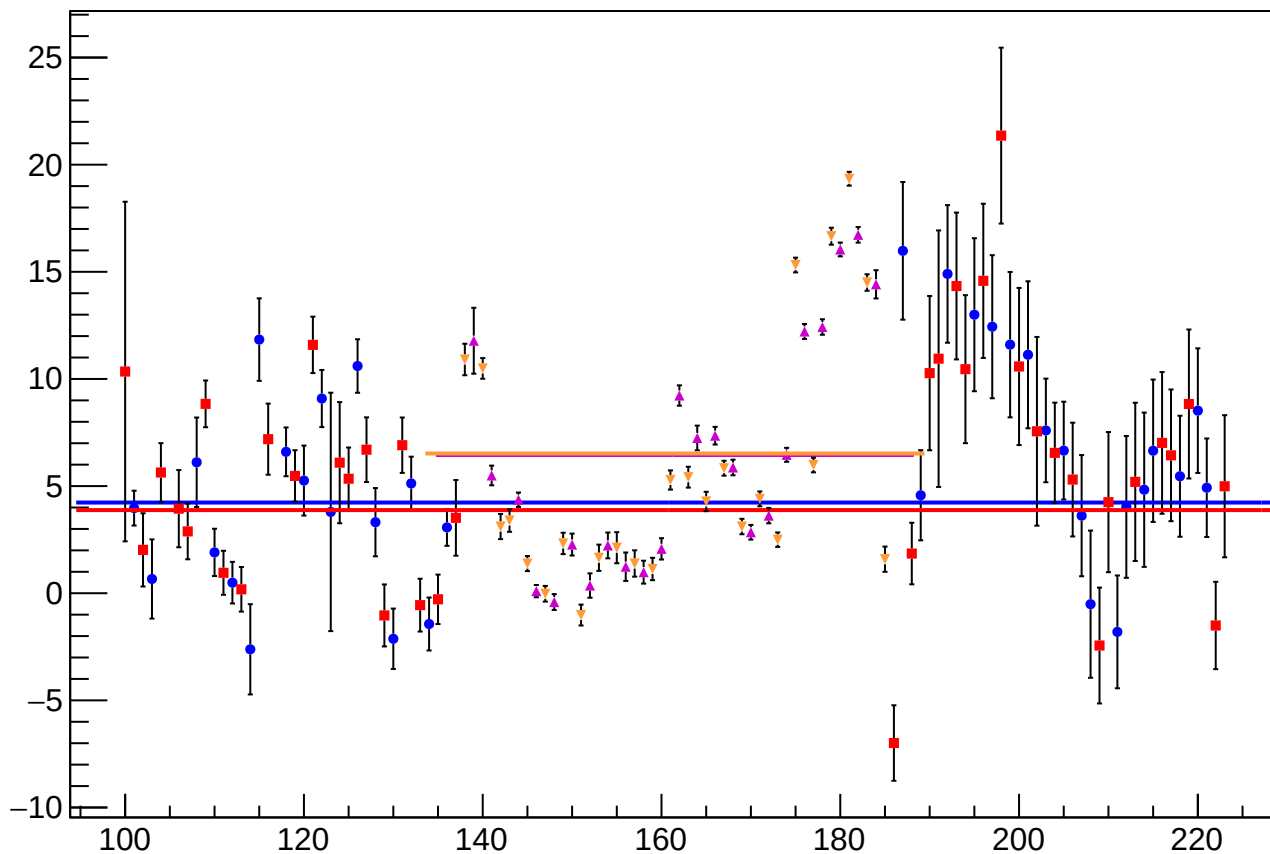
Right: -6.129 ± 0.299 $\chi^2/\text{NDF}: 3850.8/37$

In: -14.882 ± 0.104 $\chi^2/\text{NDF}: 10078.3/40$

Out: -14.683 ± 0.102 $\chi^2/\text{NDF}: 13825.7/44$

All: -14.781 ± 0.073 $\chi^2/\text{NDF}: 23905.9/85$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.232 $\pm$ 0.283 χ^2 /NDF: 196.8/34

Left Out: 6.521 $\pm$ 0.085 χ^2 /NDF:4985.2/24

Right Out: 3.880 $\pm$ 0.282 χ^2 /NDF: 240.1/38

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

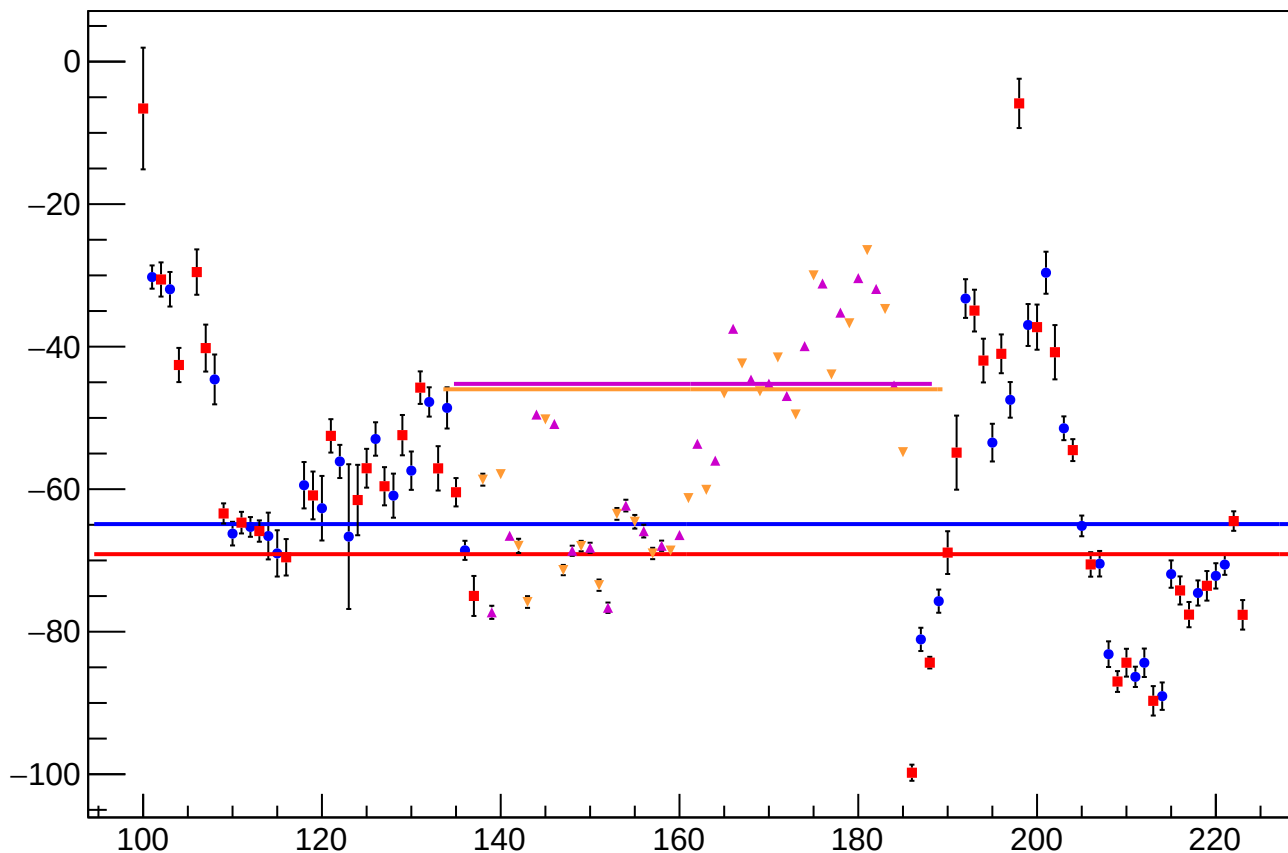
Right: 4.055 $\pm$ 0.200 χ^2 /NDF: 437.7/73

In: 6.263 $\pm$ 0.082 χ^2 /NDF:4201.3/57

Out: 6.299 $\pm$ 0.082 χ^2 /NDF:5305.5/63

All: 6.282 $\pm$ 0.058 χ^2 /NDF: 9506.9/121

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.899 ± 0.340 χ^2/NDF : 2145.3/34

Left Out: -45.982 ± 0.106 χ^2/NDF : 17360.1/24

Right Out: -69.120 ± 0.319 χ^2/NDF : 3327.1/38

Left In: -45.222 ± 0.107 χ^2/NDF : 15600.2/22

Left: -45.605 ± 0.075 χ^2/NDF : 32985.7/47

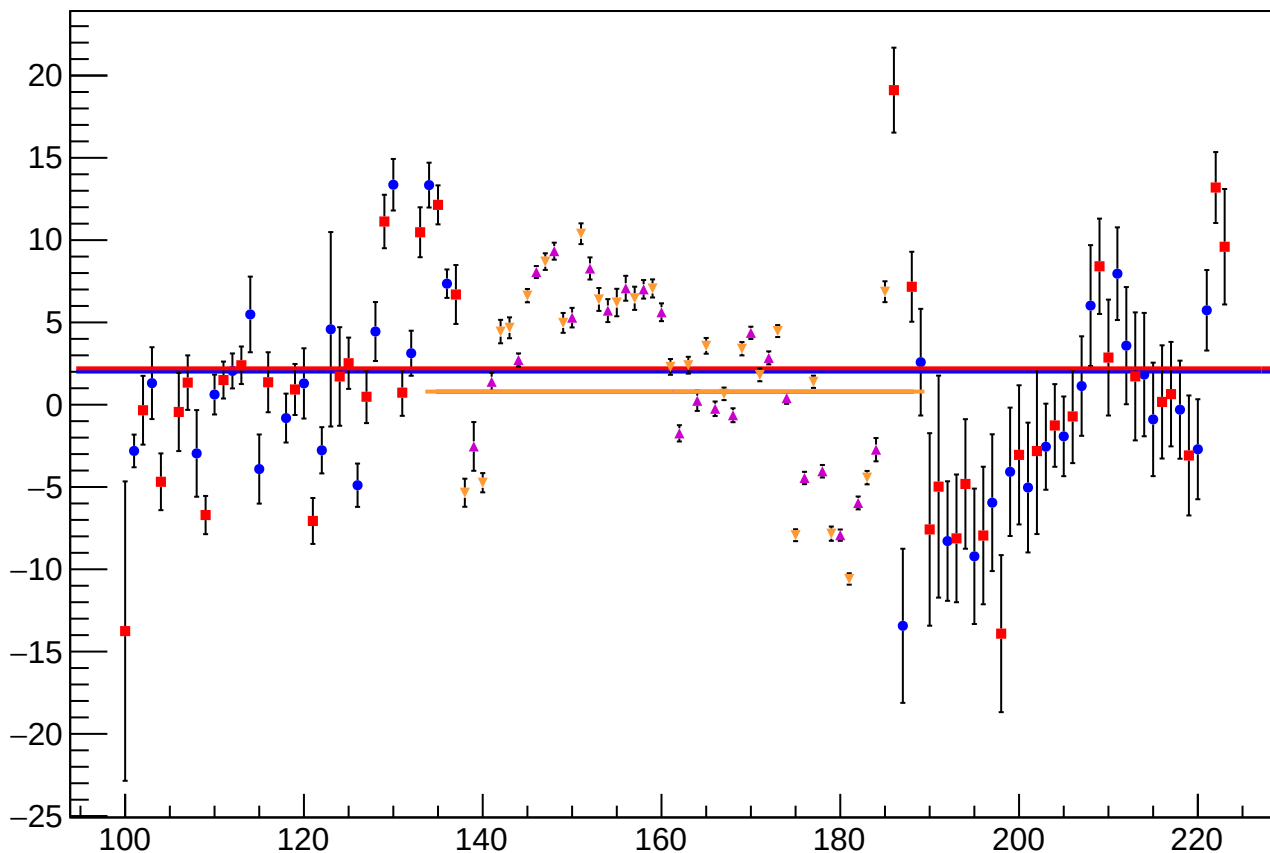
Right: -67.140 ± 0.233 χ^2/NDF : 5554.4/73

In: -47.003 ± 0.102 χ^2/NDF : 20795.0/57

Out: -48.288 ± 0.101 χ^2/NDF : 25413.3/63

All: -47.654 ± 0.072 χ^2/NDF : 46288.5/121

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.015 ± 0.317 χ^2/NDF : 297.6/34

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 2.209 ± 0.320 χ^2/NDF : 388.4/38

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

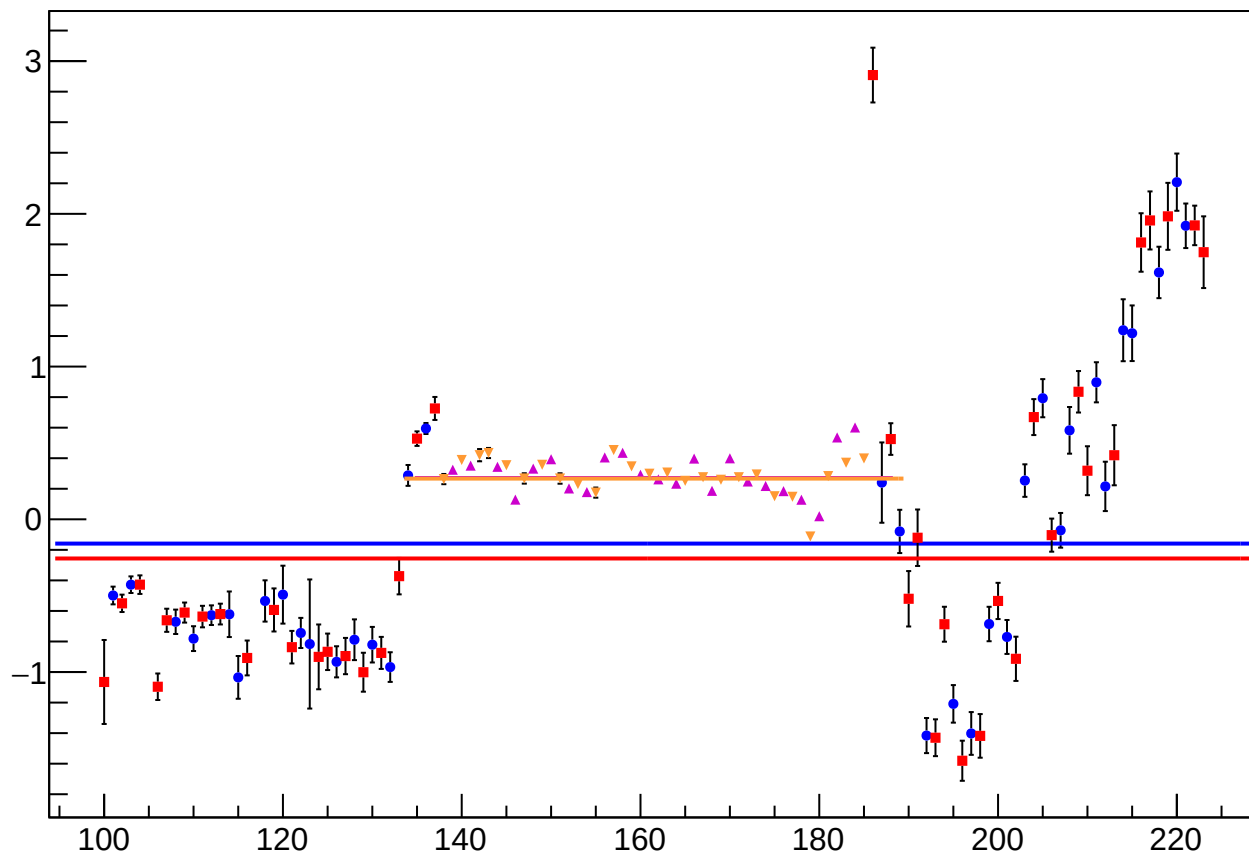
Right: 2.111 ± 0.225 χ^2/NDF : 686.3/73

In: 0.896 ± 0.092 χ^2/NDF : 3003.8/57

Out: 0.913 ± 0.092 χ^2/NDF : 4166.3/63

All: 0.905 ± 0.065 χ^2/NDF : 7170.1/121

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.159 ± 0.016 $\chi^2/\text{NDF}: 2044.4/34$

Left Out: 0.267 ± 0.004 $\chi^2/\text{NDF}: 699.8/24$

Right Out: -0.257 ± 0.016 $\chi^2/\text{NDF}: 2437.2/38$

Left In: 0.270 ± 0.004 $\chi^2/\text{NDF}: 969.9/22$

Left: 0.268 ± 0.003 $\chi^2/\text{NDF}: 1670.1/47$

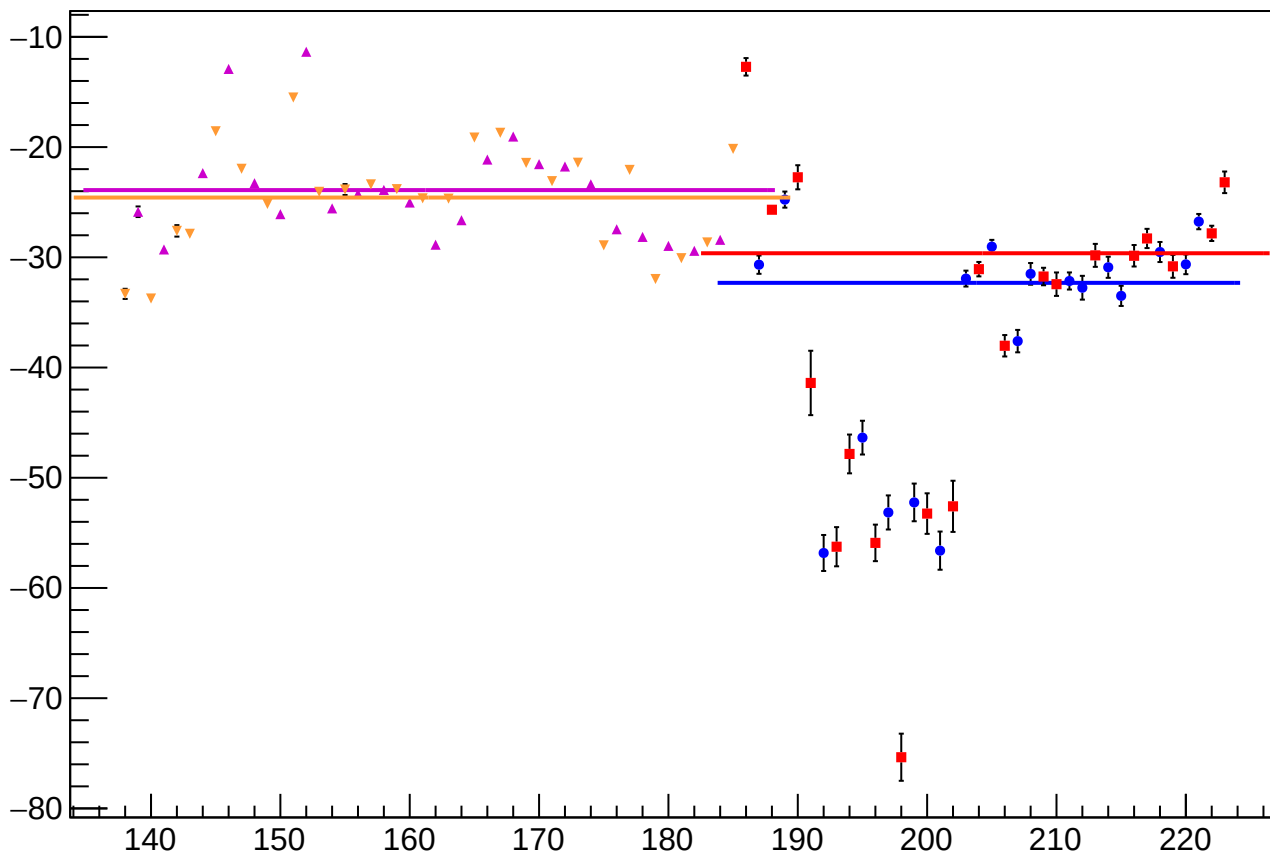
Right: -0.208 ± 0.012 $\chi^2/\text{NDF}: 4499.4/73$

In: 0.241 ± 0.004 $\chi^2/\text{NDF}: 3657.2/57$

Out: 0.232 ± 0.004 $\chi^2/\text{NDF}: 4095.7/63$

All: 0.236 ± 0.003 $\chi^2/\text{NDF}: 7755.3/121$

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.316 ± 0.218 χ^2/NDF : 1071.8/17
 Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24
 Right Out: -29.631 ± 0.209 χ^2/NDF : 2044.1/19
 Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

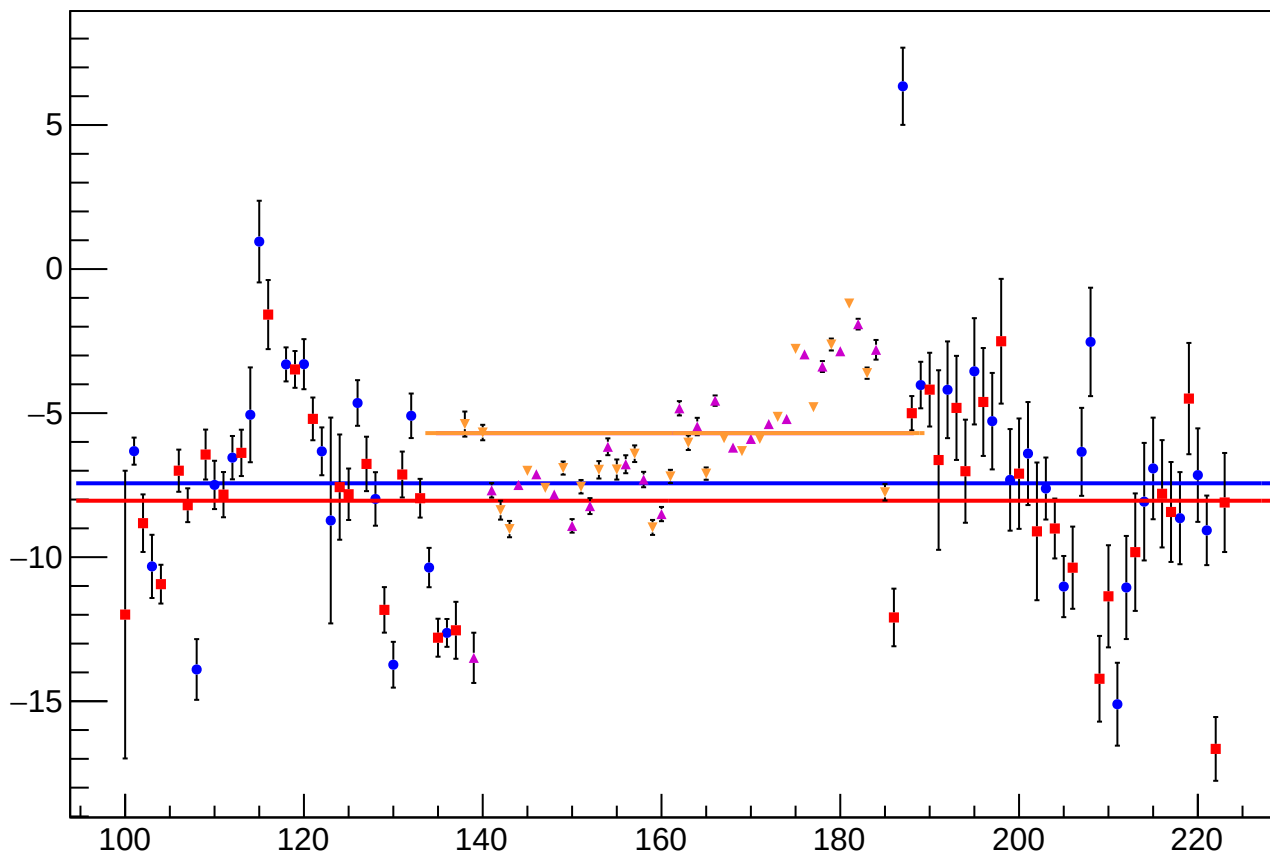
Right: -30.922 ± 0.151 χ^2/NDF : 3195.1/37

In: -24.341 ± 0.050 χ^2/NDF : 11645.3/40

Out: -24.860 ± 0.050 χ^2/NDF : 11185.2/44

All: -24.602 ± 0.035 χ^2/NDF : 22885.2/85

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.436 ± 0.163 χ^2/NDF : 568.3/34

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -8.041 ± 0.159 χ^2/NDF : 377.9/38

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

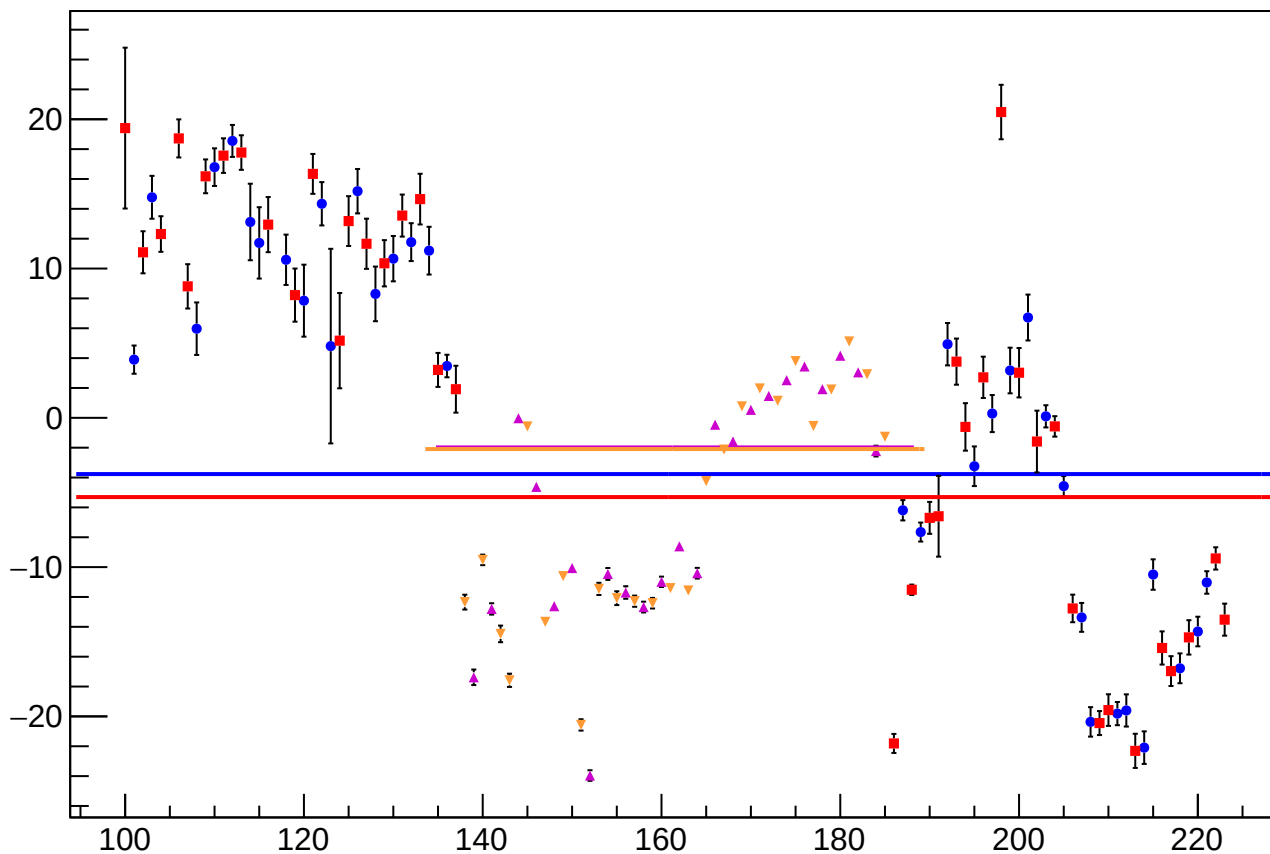
Right: -7.746 ± 0.114 χ^2/NDF : 953.2/73

In: -5.798 ± 0.040 χ^2/NDF : 2984.8/57

Out: -5.841 ± 0.040 χ^2/NDF : 2839.9/63

All: -5.819 ± 0.028 χ^2/NDF : 5825.3/121

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

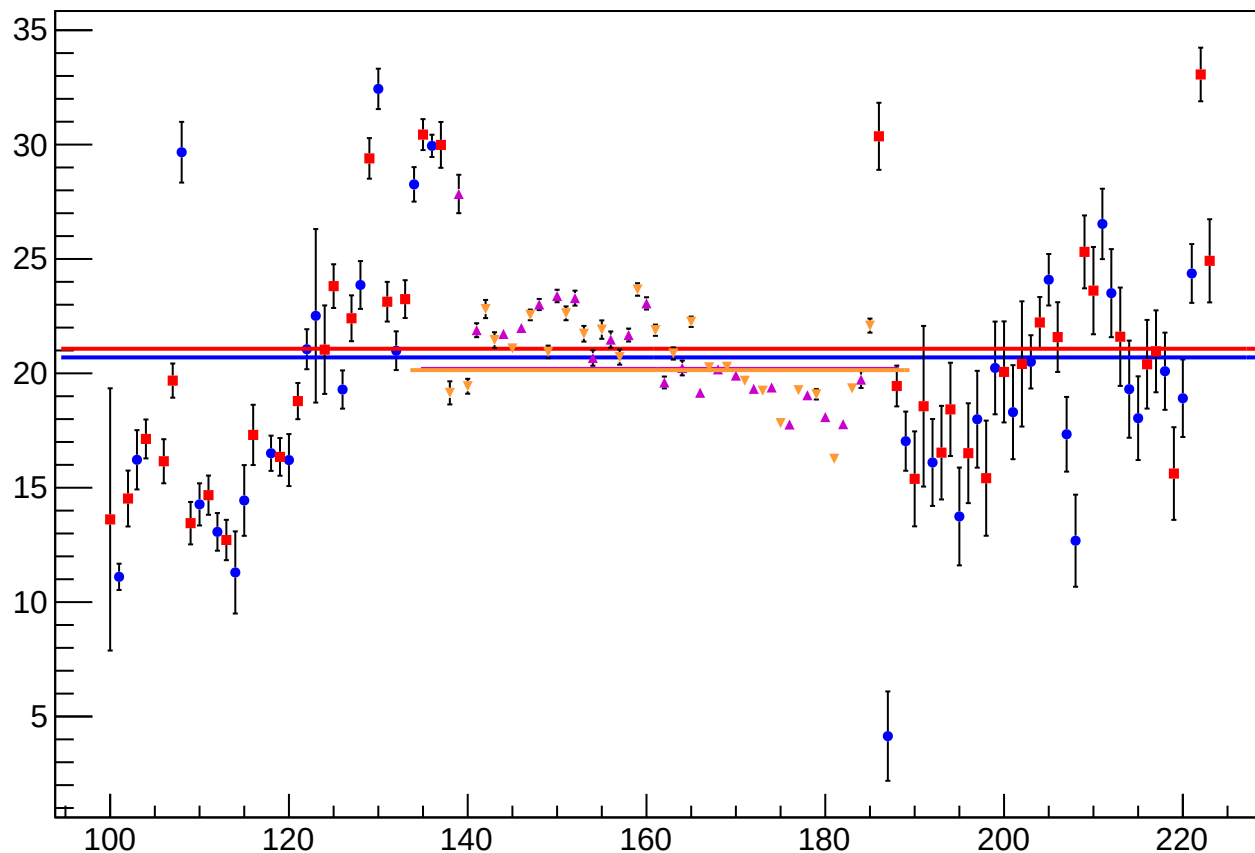


Right In: -3.768 ± 0.182 χ^2/NDF : 3844.2/34
 Left Out: -2.092 ± 0.051 χ^2/NDF : 16305.3/24
 Right Out: -5.308 ± 0.170 χ^2/NDF : 5662.3/38
 Left In: -1.980 ± 0.051 χ^2/NDF : 15382.3/22

Left: -2.036 ± 0.036 χ^2/NDF : 31690.0/47
 Right: -4.594 ± 0.124 χ^2/NDF : 9544.8/73
 In: -2.112 ± 0.049 χ^2/NDF : 19315.7/57
 Out: -2.363 ± 0.049 χ^2/NDF : 22297.3/63

All: -2.238 ± 0.035 χ^2/NDF : 41626.0/121

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.697 $\pm$ 0.185 χ^2 /NDF: 1369.0/34

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 21.076 $\pm$ 0.185 χ^2 /NDF: 919.7/38

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

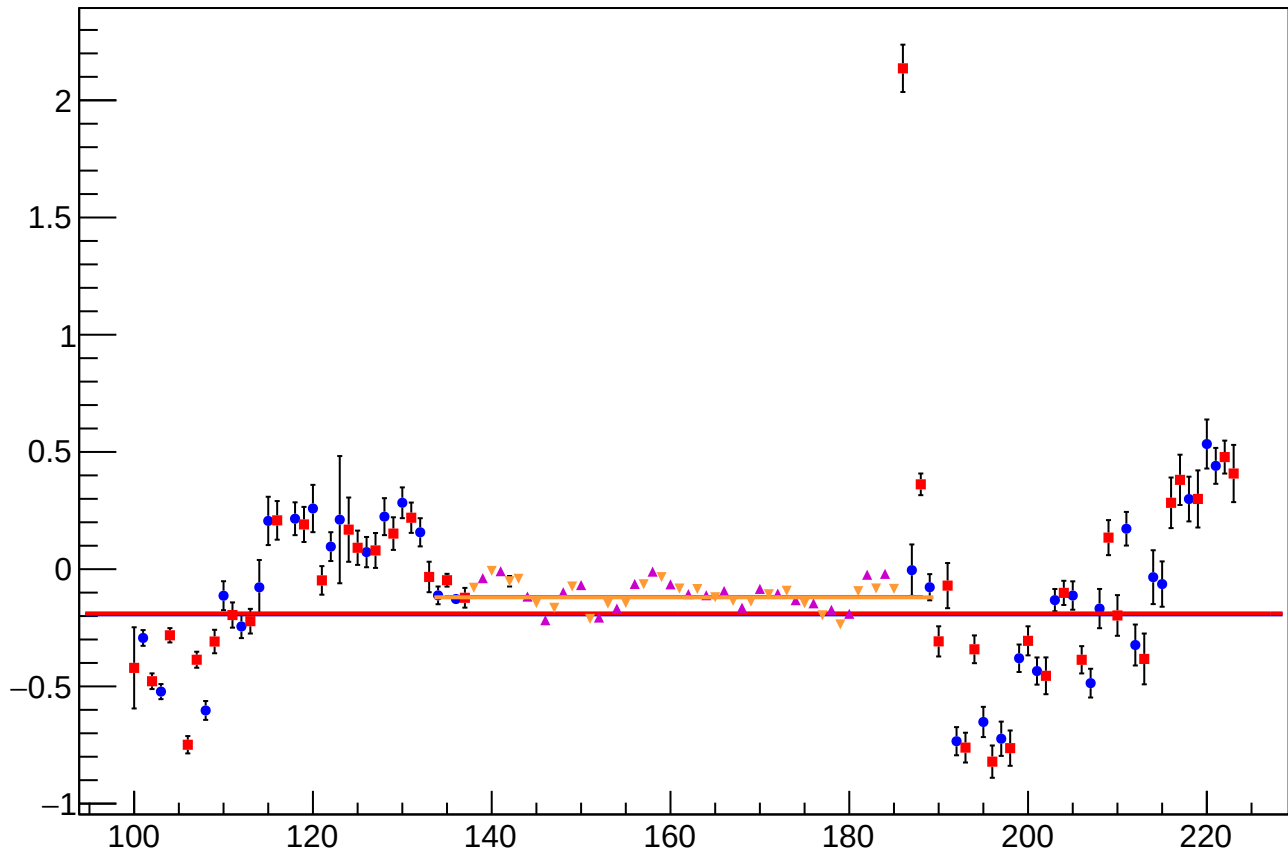
Right: 20.886 $\pm$ 0.131 χ^2 /NDF: 2290.8/73

In: 20.223 $\pm$ 0.045 χ^2 /NDF:2823.3/57

Out: 20.195 $\pm$ 0.045 χ^2 /NDF:2362.8/63

All: 20.209 $\pm$ 0.032 χ^2 /NDF: 5186.4/121

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.193+/-0.009 χ^2/NDF : 881.8/34

Left Out: -0.120+/-0.002 χ^2/NDF : 530.4/24

Right Out: -0.189+/-0.009 χ^2/NDF : 1679.7/38

Left In: -0.119+/-0.002 χ^2/NDF : 721.8/22

Left: -0.119+/-0.001 χ^2/NDF : 1252.4/47

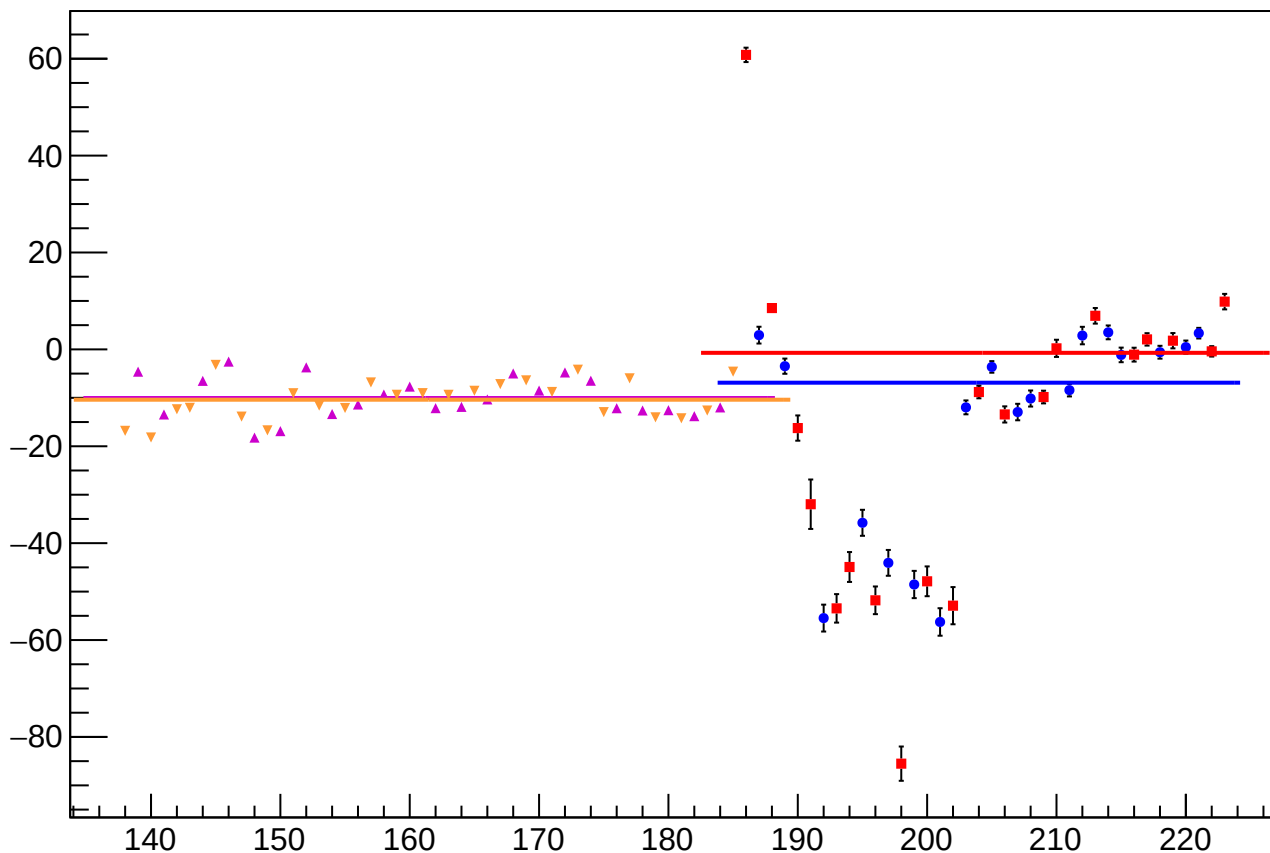
Right: -0.191+/-0.006 χ^2/NDF : 2561.6/73

In: -0.122+/-0.002 χ^2/NDF : 1664.5/57

Out: -0.124+/-0.002 χ^2/NDF : 2264.3/63

All: -0.123+/-0.001 χ^2/NDF : 3929.0/121

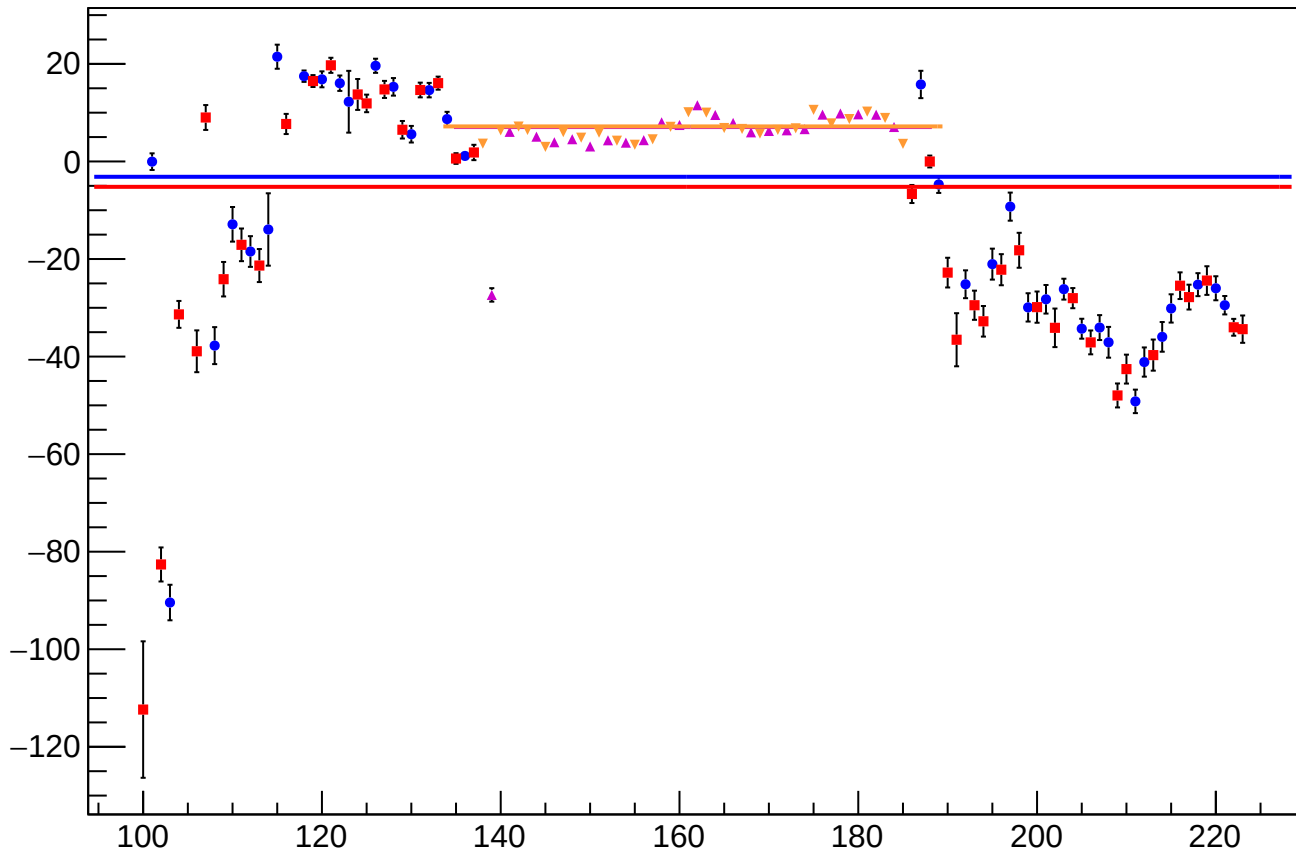
reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.876 ± 0.376 $\chi^2/\text{NDF}: 1448.9/17$
 Left Out: -10.391 ± 0.088 $\chi^2/\text{NDF}: 2111.6/24$
 Right Out: -0.712 ± 0.363 $\chi^2/\text{NDF}: 3961.0/19$
 Left In: -10.036 ± 0.090 $\chi^2/\text{NDF}: 1758.7/22$

Left: -10.217 ± 0.063 $\chi^2/\text{NDF}: 3878.3/47$
 Right: -3.686 ± 0.261 $\chi^2/\text{NDF}: 5548.8/37$
 In: -9.866 ± 0.087 $\chi^2/\text{NDF}: 3274.3/40$
 Out: -9.856 ± 0.085 $\chi^2/\text{NDF}: 6743.6/44$
 All: -9.861 ± 0.061 $\chi^2/\text{NDF}: 10018.0/85$

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.143 ± 0.335 χ^2/NDF : 4031.9/34

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -5.203 ± 0.341 χ^2/NDF : 3999.8/38

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

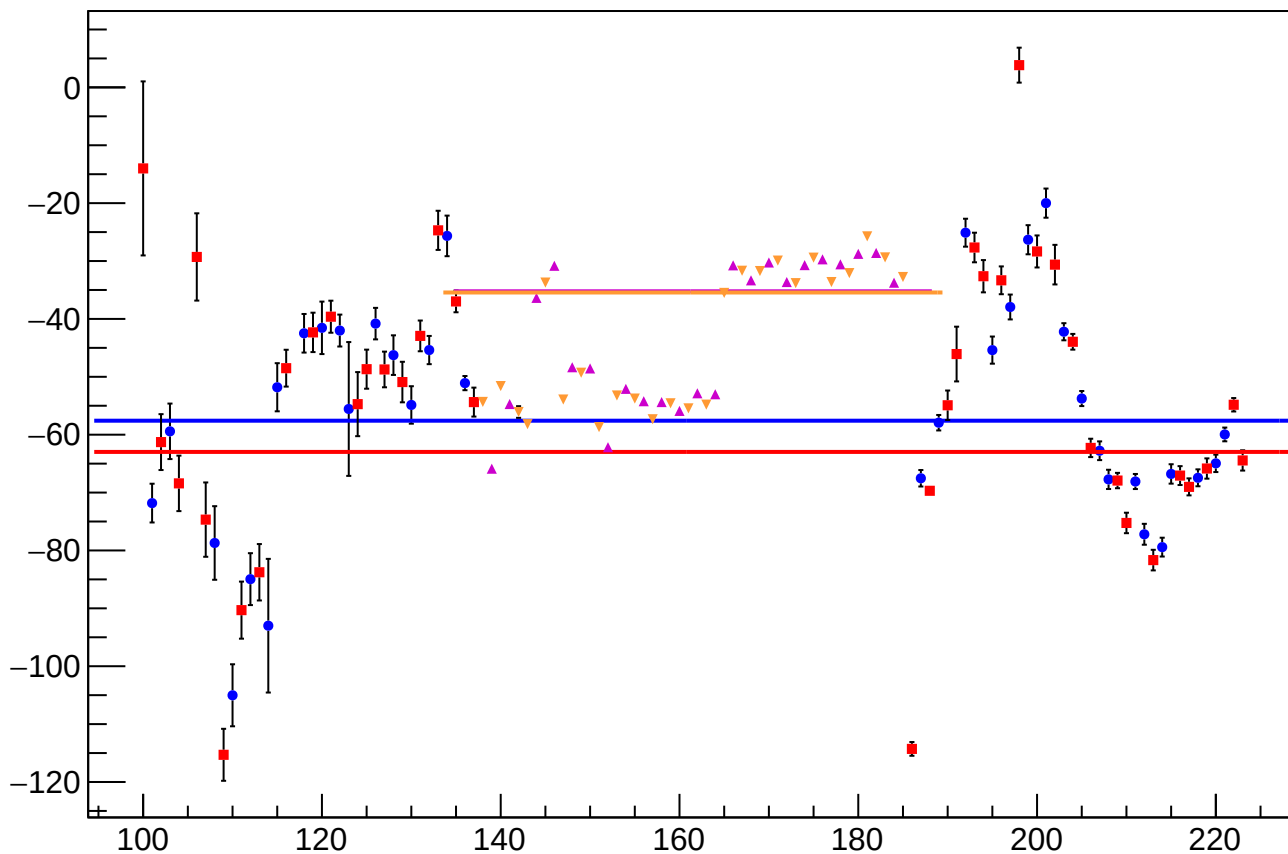
Right: -4.154 ± 0.239 χ^2/NDF : 8050.3/73

In: 6.576 ± 0.072 χ^2/NDF : 6451.5/57

Out: 6.635 ± 0.072 χ^2/NDF : 6177.4/63

All: 6.605 ± 0.051 χ^2/NDF : 12629.2/121

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -57.584 ± 0.337 χ^2/NDF : 1756.3/34

Left Out: -35.434 ± 0.089 χ^2/NDF : 12782.8/24

Right Out: -62.977 ± 0.321 χ^2/NDF : 4415.9/38

Left In: -35.229 ± 0.090 χ^2/NDF : 11602.9/22

Left: -35.333 ± 0.063 χ^2/NDF : 24388.3/47

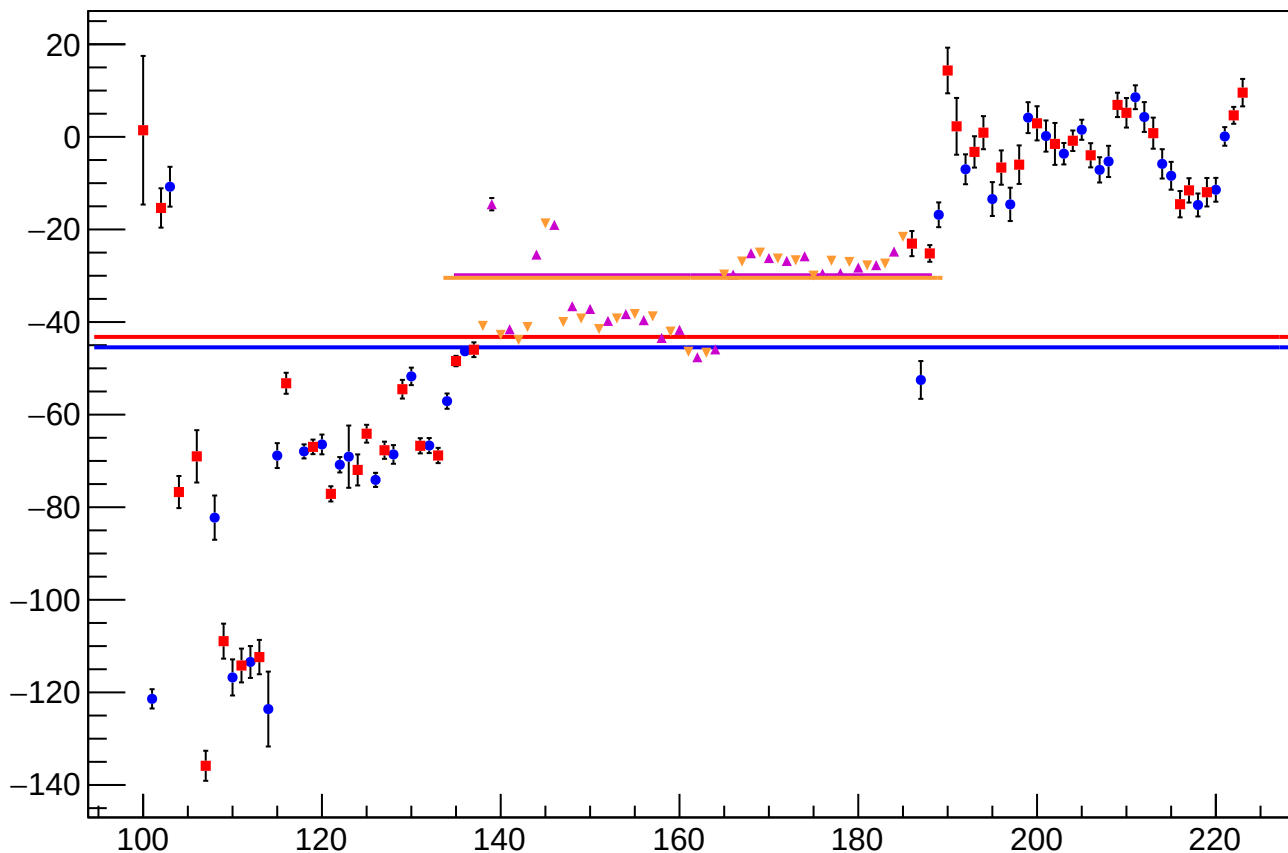
Right: -60.413 ± 0.232 χ^2/NDF : 6306.5/73

In: -36.720 ± 0.087 χ^2/NDF : 17463.7/57

Out: -37.402 ± 0.086 χ^2/NDF : 24040.8/63

All: -37.066 ± 0.061 χ^2/NDF : 41535.8/121

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -45.462 ± 0.372 $\chi^2/\text{NDF}: 7397.3/34$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -43.211 ± 0.387 $\chi^2/\text{NDF}: 7312.0/38$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

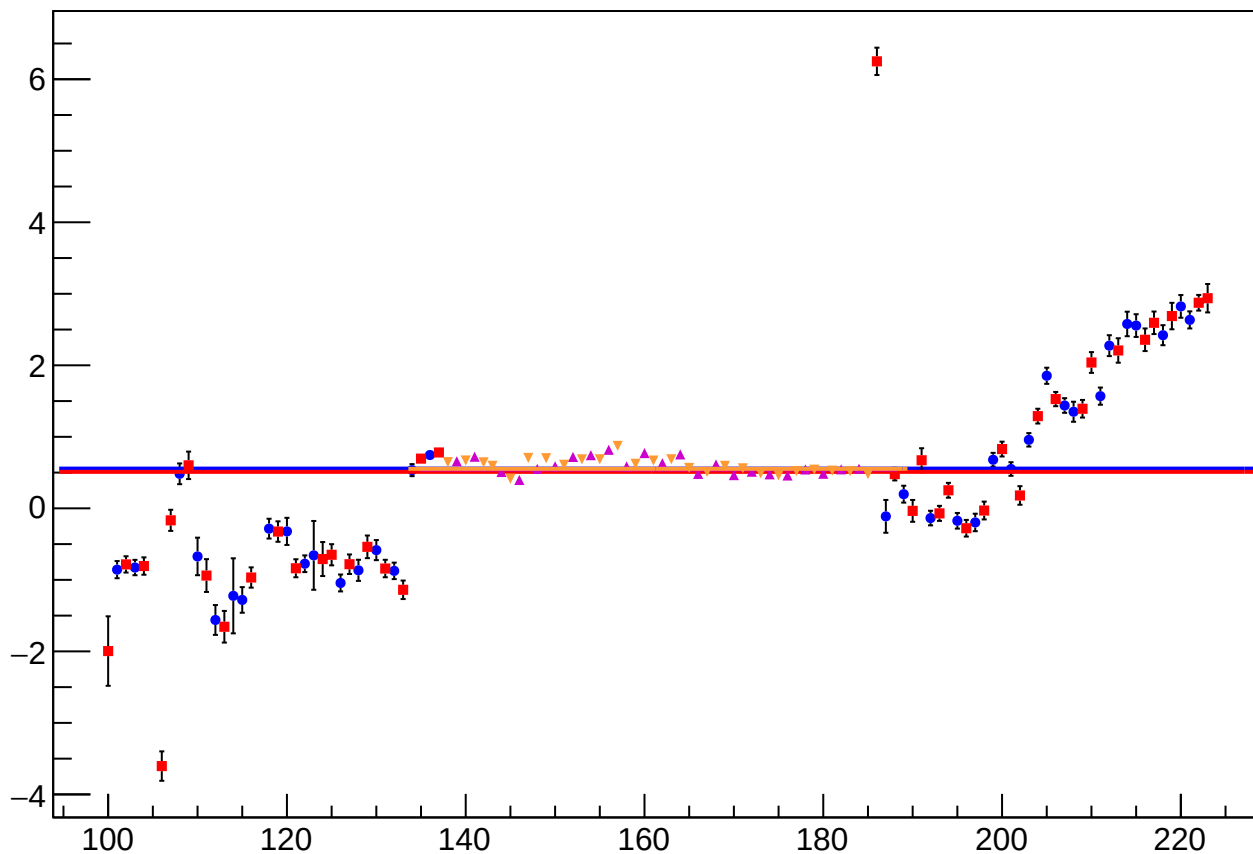
Right: -44.381 ± 0.268 $\chi^2/\text{NDF}: 14726.8/73$

In: -30.623 ± 0.081 $\chi^2/\text{NDF}: 16180.5/57$

Out: -30.990 ± 0.080 $\chi^2/\text{NDF}: 16520.1/63$

All: -30.808 ± 0.057 $\chi^2/\text{NDF}: 32711.1/121$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.556 $\pm$ 0.018 χ^2 /NDF: 2863.7/34

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.510 $\pm$ 0.019 χ^2 /NDF: 4145.7/38

Left In: 0.544 $\pm$ 0.004 χ^2 /NDF:655.9/22

Left: 0.548 $\pm$ 0.003 χ^2 /NDF: 1200.9/47

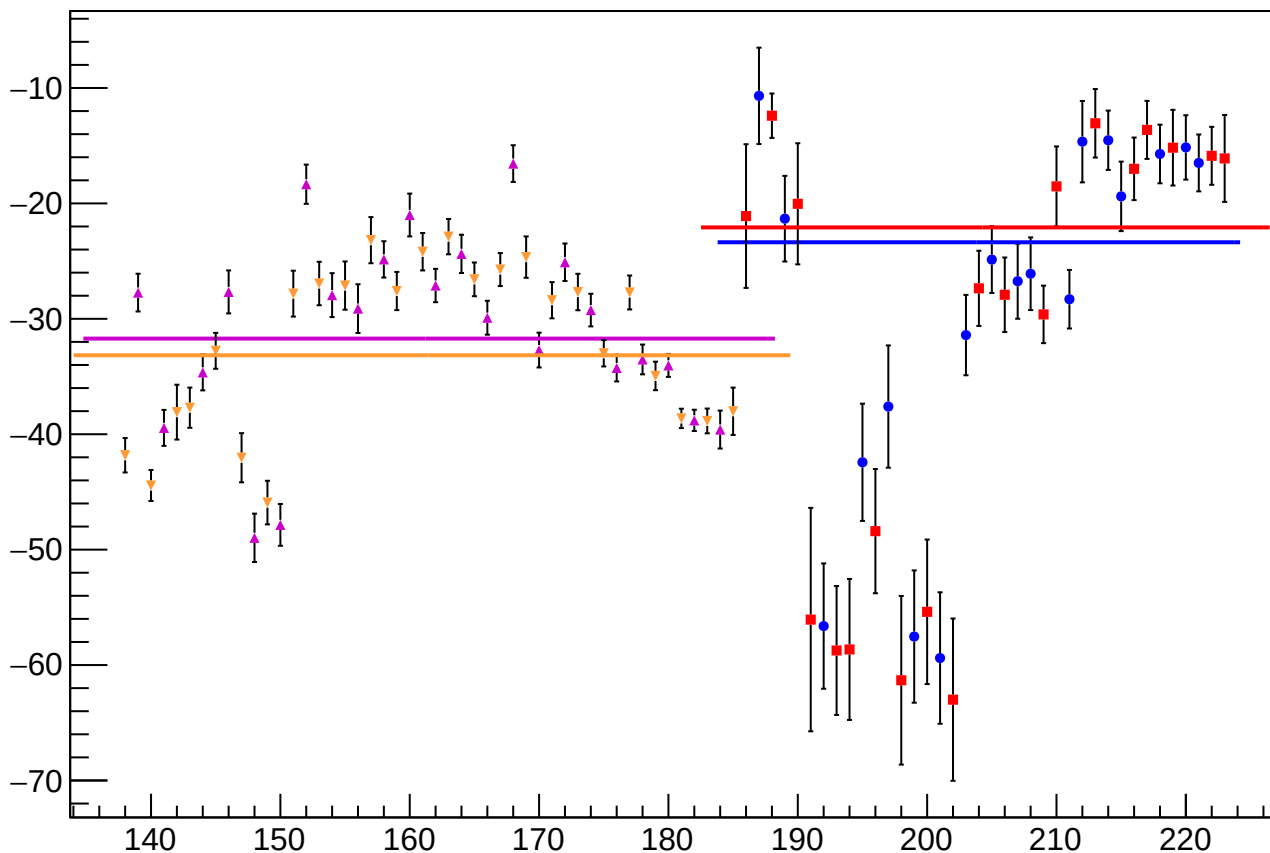
Right: 0.534 $\pm$ 0.013 χ^2 /NDF: 7012.3/73

In: 0.544 $\pm$ 0.004 χ^2 /NDF:3520.0/57

Out: 0.551 $\pm$ 0.004 χ^2 /NDF:4692.5/63

All: 0.548 $\pm$ 0.003 χ^2 /NDF: 8214.3/121

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

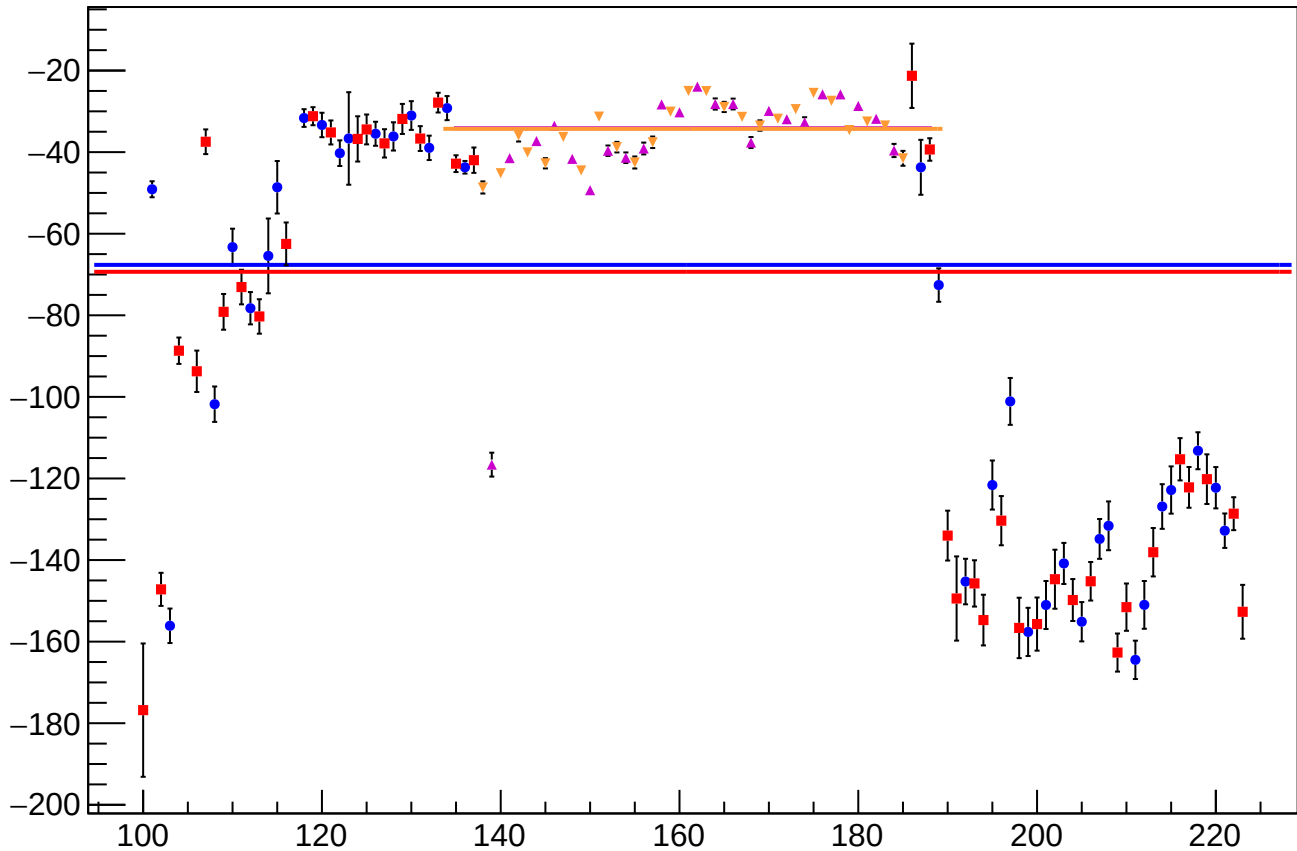


Right In: -23.368 ± 0.780 $\chi^2/\text{NDF}: 200.3/17$
 Left Out: -33.157 ± 0.300 $\chi^2/\text{NDF}: 500.1/24$
 Right Out: -22.080 ± 0.775 $\chi^2/\text{NDF}: 284.9/19$
 Left In: -31.714 ± 0.309 $\chi^2/\text{NDF}: 542.3/22$

Left: -32.456 ± 0.215 $\chi^2/\text{NDF}: 1053.6/47$
 Right: -22.719 ± 0.550 $\chi^2/\text{NDF}: 486.5/37$
 In: -30.583 ± 0.287 $\chi^2/\text{NDF}: 841.5/40$
 Out: -31.711 ± 0.280 $\chi^2/\text{NDF}: 962.7/44$

All: -31.161 ± 0.200 $\chi^2/\text{NDF}: 1812.1/85$

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -67.638 ± 0.628 $\chi^2/\text{NDF}: 4796.4/34$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -69.333 ± 0.643 $\chi^2/\text{NDF}: 5088.2/38$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

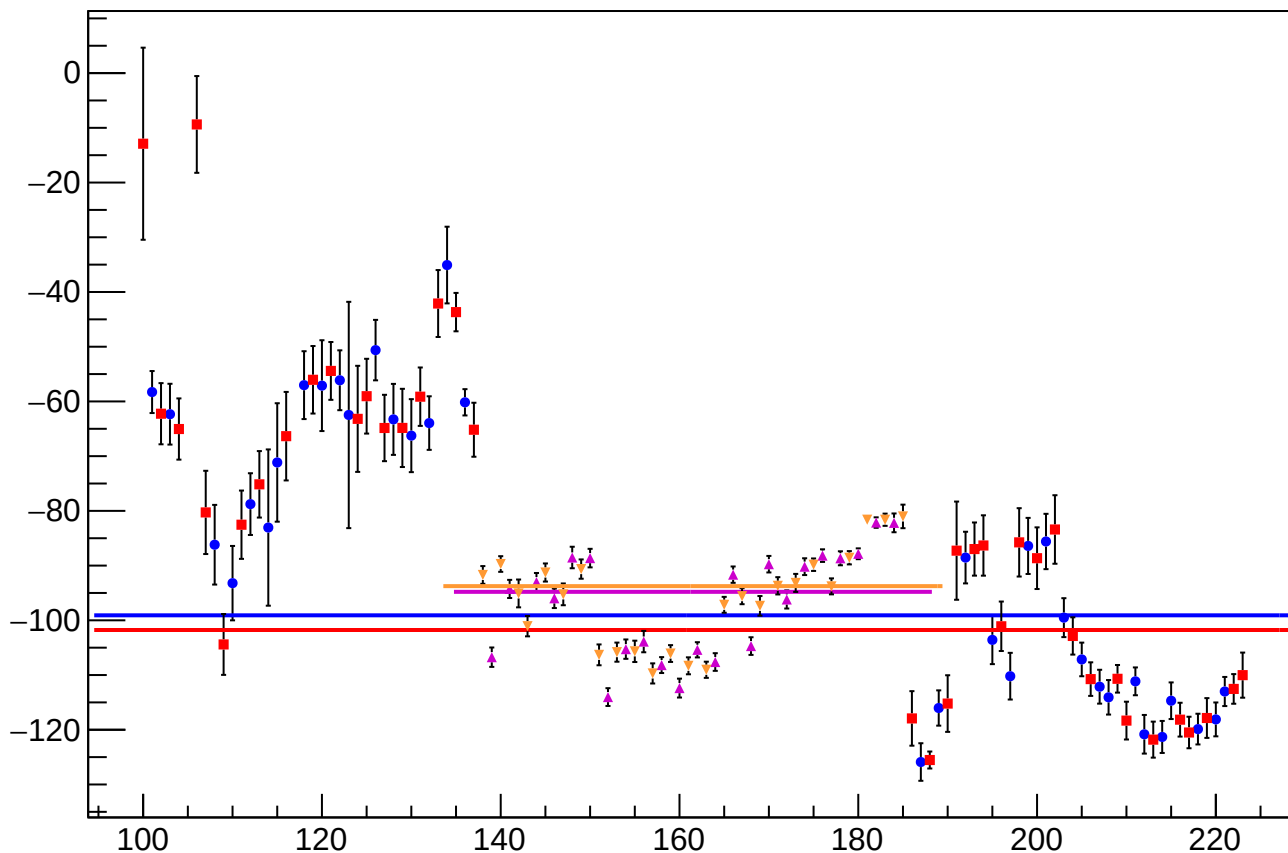
Right: -68.465 ± 0.449 $\chi^2/\text{NDF}: 9888.2/73$

In: -38.755 ± 0.233 $\chi^2/\text{NDF}: 8703.3/57$

Out: -38.614 ± 0.226 $\chi^2/\text{NDF}: 8384.3/63$

All: -38.682 ± 0.162 $\chi^2/\text{NDF}: 17087.8/121$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -99.087 ± 0.676 $\chi^2/\text{NDF}: 1269.2/34$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -101.770 ± 0.666 $\chi^2/\text{NDF}: 1509.6/38$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

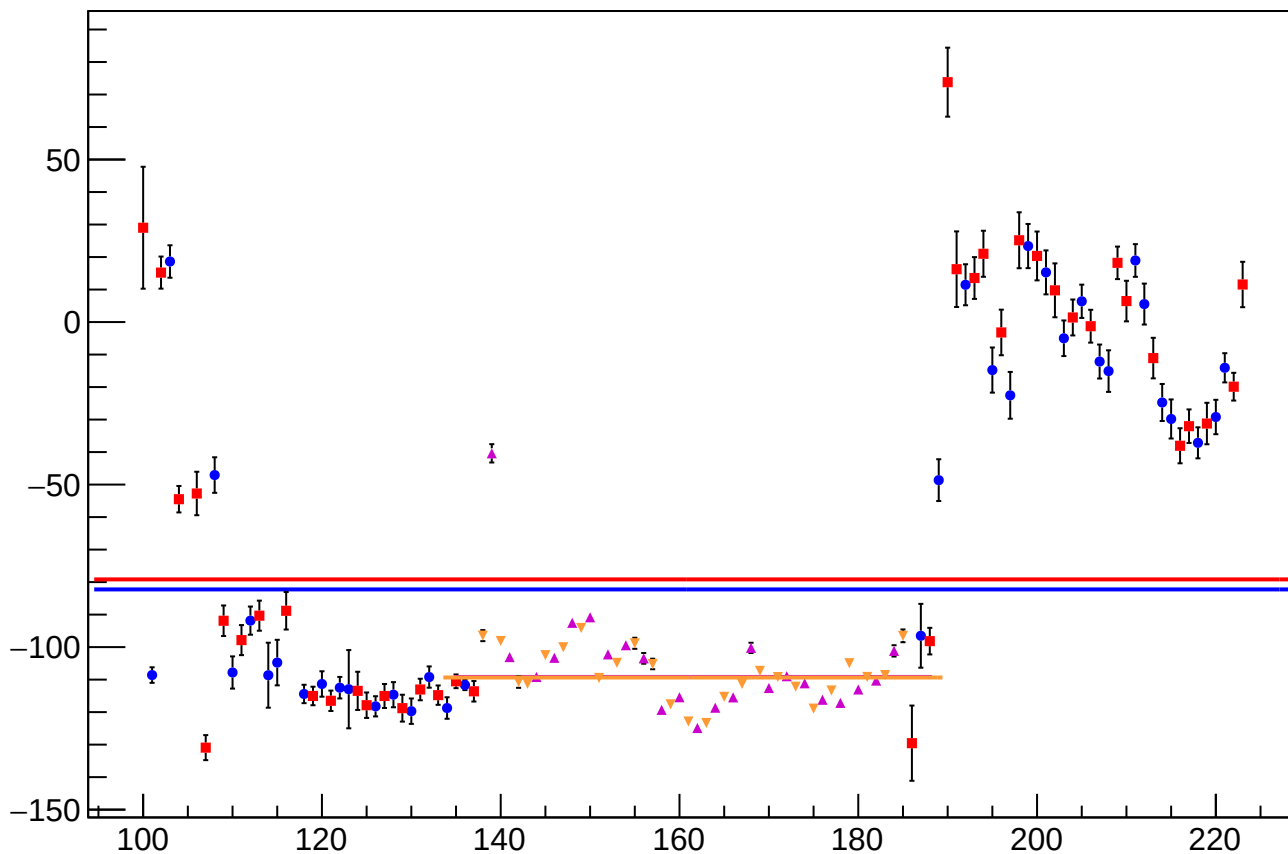
Right: -100.449 ± 0.474 $\chi^2/\text{NDF}: 2786.8/73$

In: -95.536 ± 0.281 $\chi^2/\text{NDF}: 2277.2/57$

Out: -95.121 ± 0.275 $\chi^2/\text{NDF}: 2513.0/63$

All: -95.324 ± 0.196 $\chi^2/\text{NDF}: 4791.4/121$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -82.252 ± 0.703 $\chi^2/\text{NDF}: 4585.7/34$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -79.166 ± 0.731 $\chi^2/\text{NDF}: 4845.9/38$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

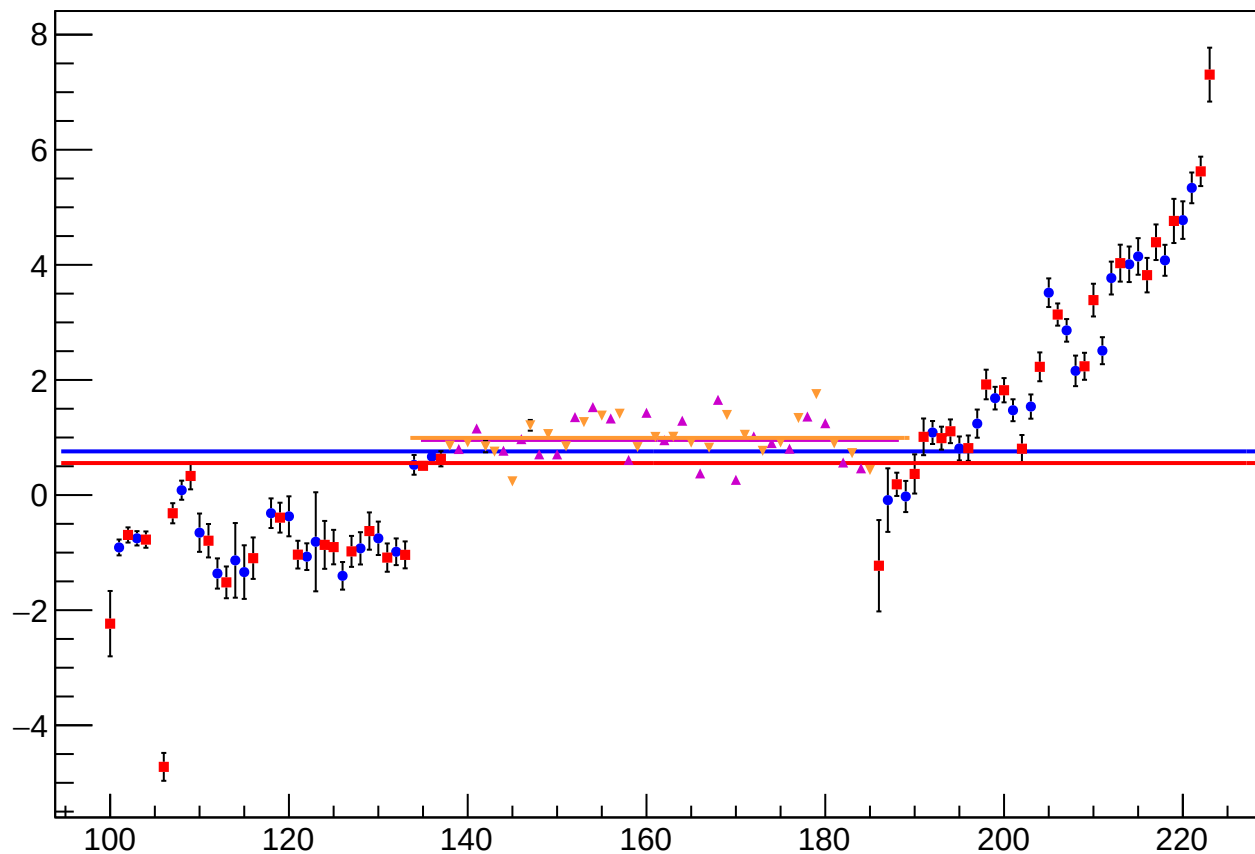
Right: -80.768 ± 0.507 $\chi^2/\text{NDF}: 9440.9/73$

In: -105.501 ± 0.260 $\chi^2/\text{NDF}: 7352.8/57$

Out: -105.696 ± 0.254 $\chi^2/\text{NDF}: 7172.5/63$

All: -105.601 ± 0.182 $\chi^2/\text{NDF}: 14525.6/121$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.759 ± 0.034 χ^2/NDF : 2042.6/34

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: 0.556 ± 0.035 χ^2/NDF : 2606.8/38

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

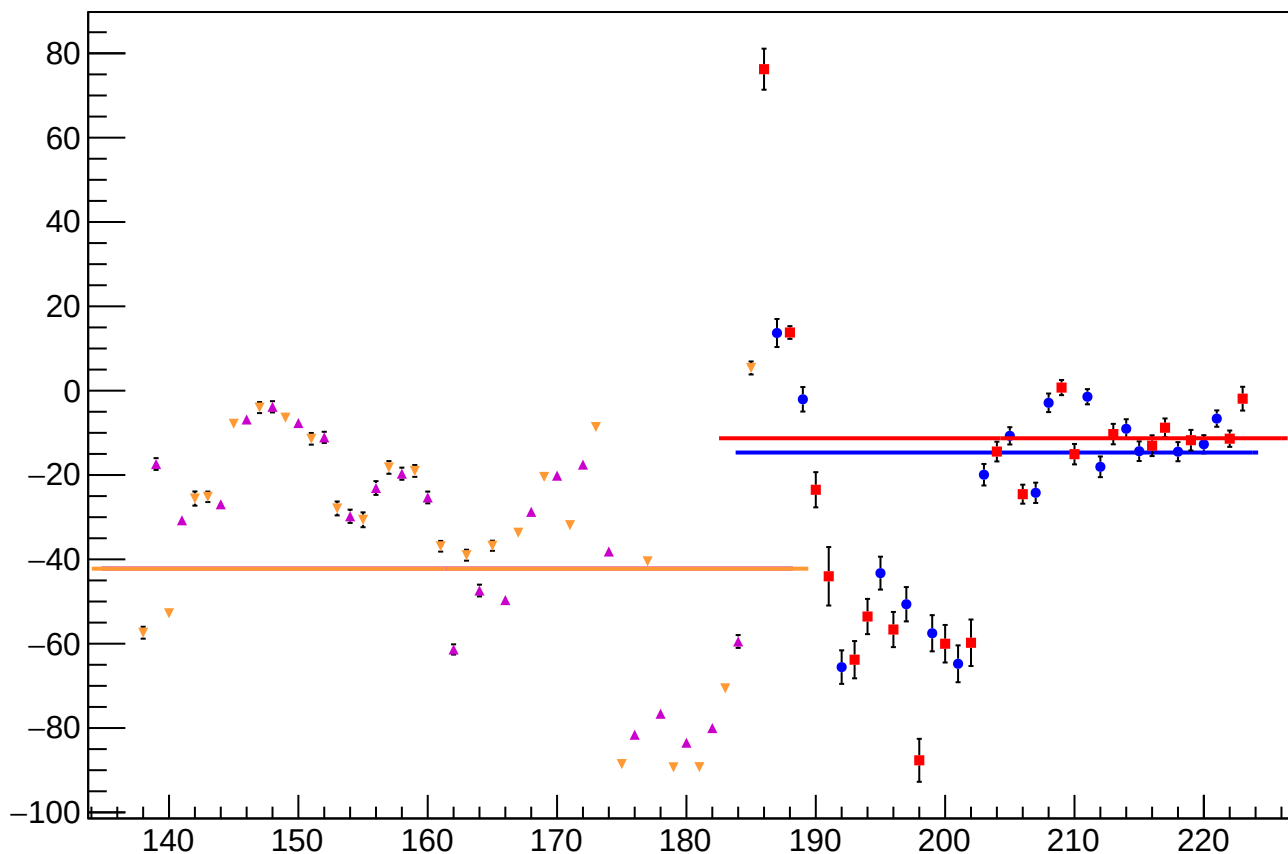
Right: 0.660 ± 0.024 χ^2/NDF : 4666.7/73

In: 0.934 ± 0.012 χ^2/NDF : 2967.1/57

Out: 0.944 ± 0.012 χ^2/NDF : 3383.8/63

All: 0.939 ± 0.008 χ^2/NDF : 6351.3/121

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.669 ± 0.598 χ^2/NDF : 750.4/17

Left Out: -42.213 ± 0.222 χ^2/NDF : 18309.1/24

Right Out: -11.284 ± 0.597 χ^2/NDF : 1511.0/19

Left In: -42.176 ± 0.227 χ^2/NDF : 14575.9/22

Left: -42.195 ± 0.159 χ^2/NDF : 32885.0/47

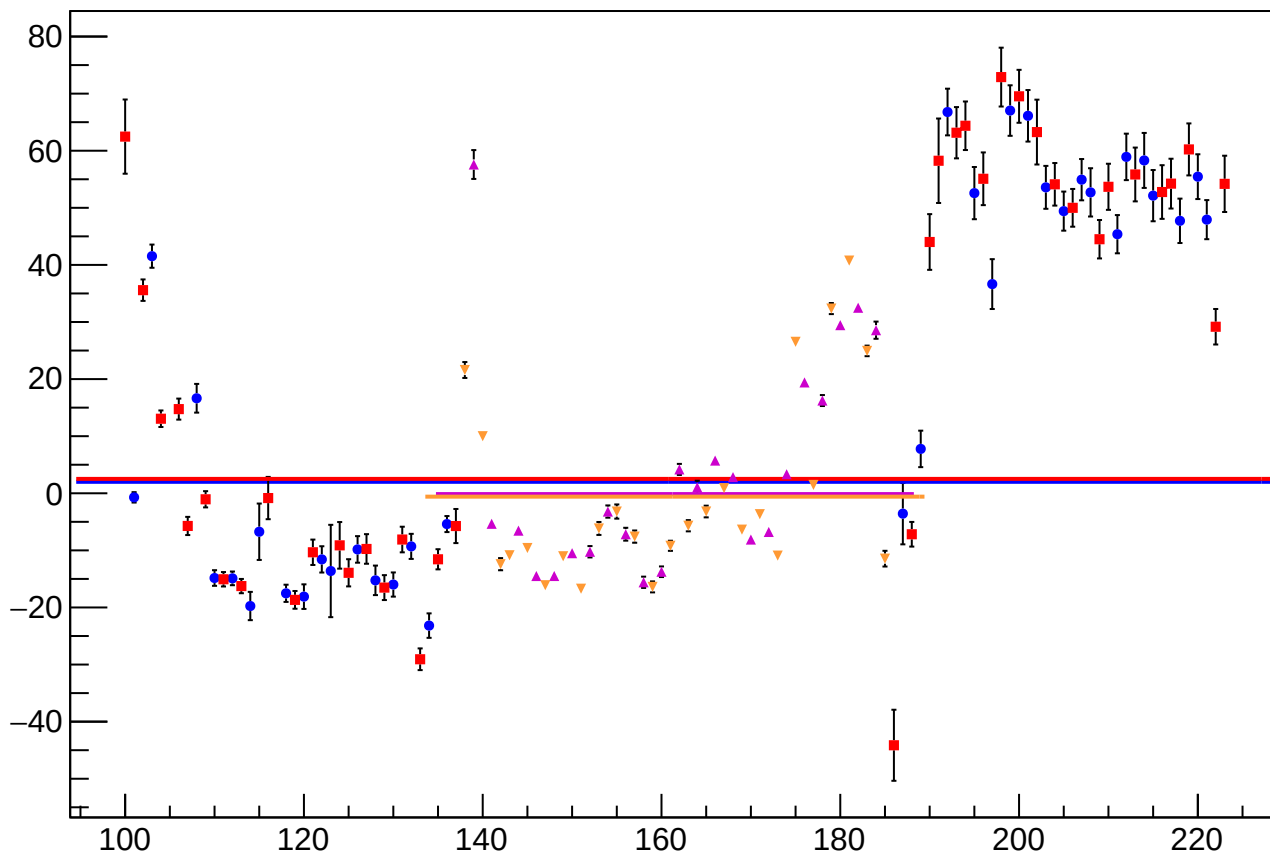
Right: -12.974 ± 0.422 χ^2/NDF : 2277.4/37

In: -38.705 ± 0.212 χ^2/NDF : 17177.8/40

Out: -38.450 ± 0.208 χ^2/NDF : 22181.4/44

All: -38.575 ± 0.149 χ^2/NDF : 39359.9/85

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.010 ± 0.391 $\chi^2/\text{NDF}: 4205.5/34$

Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$

Right Out: 2.520 ± 0.388 $\chi^2/\text{NDF}: 4367.4/38$

Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$

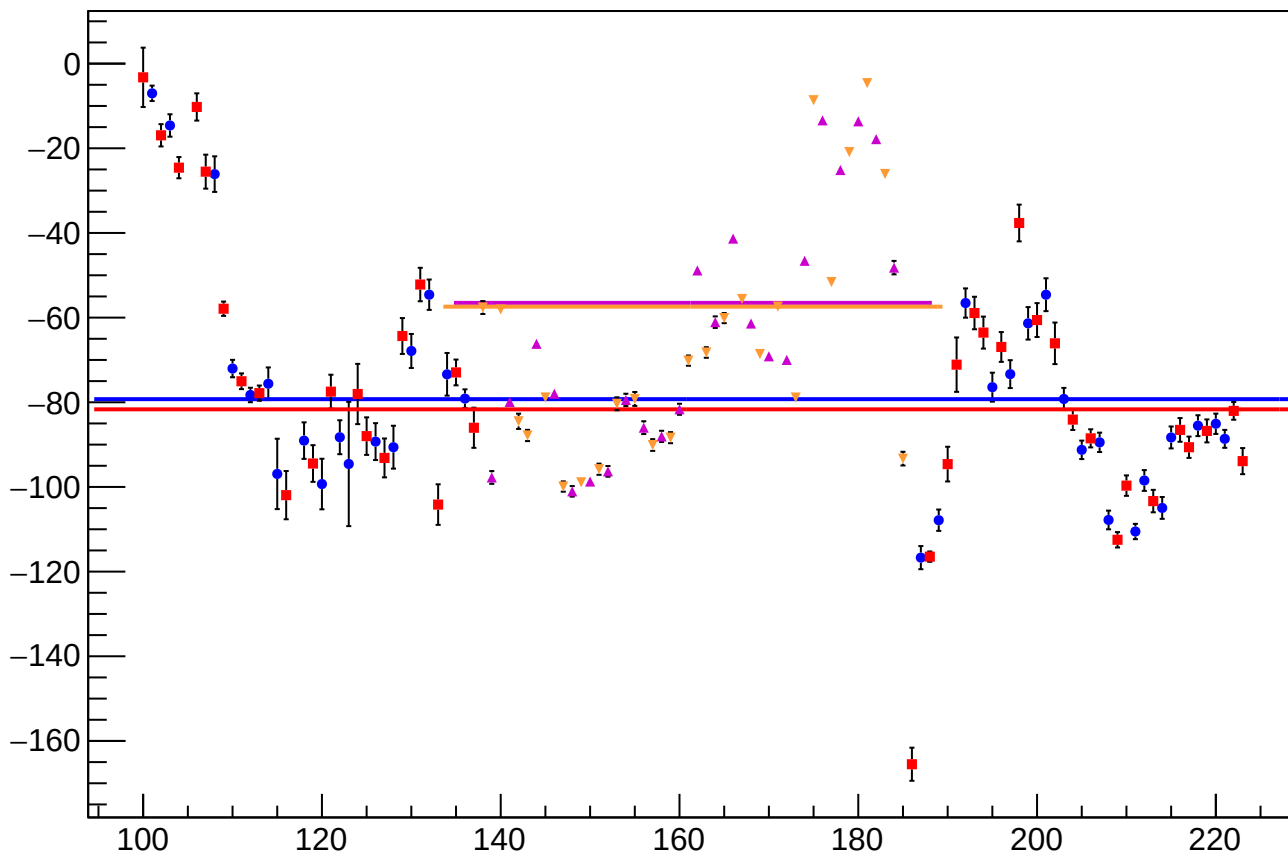
Right: 2.267 ± 0.276 $\chi^2/\text{NDF}: 8573.8/73$

In: 0.231 ± 0.163 $\chi^2/\text{NDF}: 11093.0/57$

Out: -0.068 ± 0.159 $\chi^2/\text{NDF}: 13171.7/63$

All: 0.078 ± 0.114 $\chi^2/\text{NDF}: 24266.4/121$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -79.264 ± 0.468 $\chi^2/\text{NDF}: 3590.3/34$

Left Out: -57.413 ± 0.223 $\chi^2/\text{NDF}: 18604.1/24$

Right Out: -81.669 ± 0.449 $\chi^2/\text{NDF}: 4248.0/38$

Left In: -56.519 ± 0.227 $\chi^2/\text{NDF}: 16352.6/22$

Left: -56.974 ± 0.159 $\chi^2/\text{NDF}: 34964.5/47$

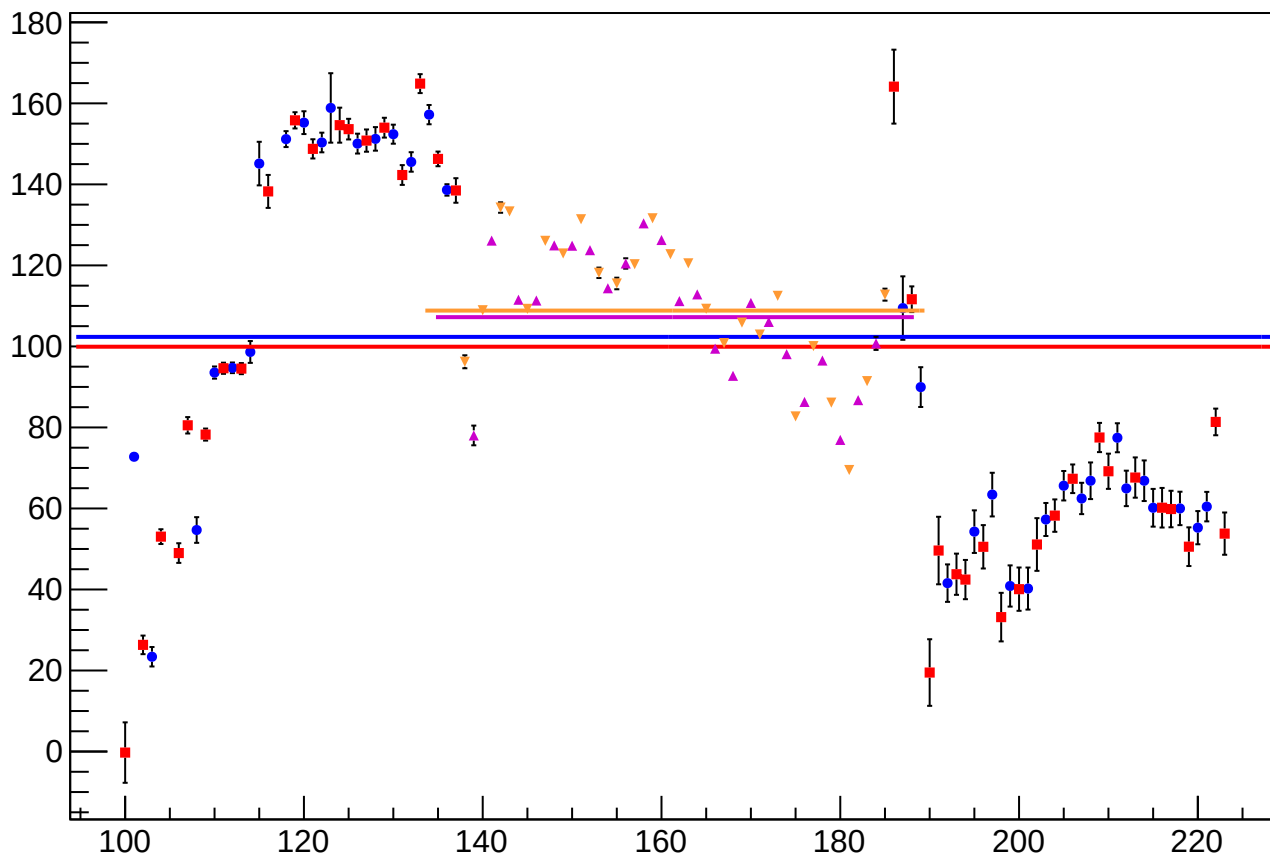
Right: -80.518 ± 0.324 $\chi^2/\text{NDF}: 7852.1/73$

In: -60.849 ± 0.204 $\chi^2/\text{NDF}: 21853.5/57$

Out: -62.224 ± 0.200 $\chi^2/\text{NDF}: 25194.3/63$

All: -61.552 ± 0.143 $\chi^2/\text{NDF}: 47071.0/121$

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 102.353 $\pm$ 0.444 χ^2 /NDF: 7806.6/34

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 99.927 $\pm$ 0.442 χ^2 /NDF: 8800.6/38

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

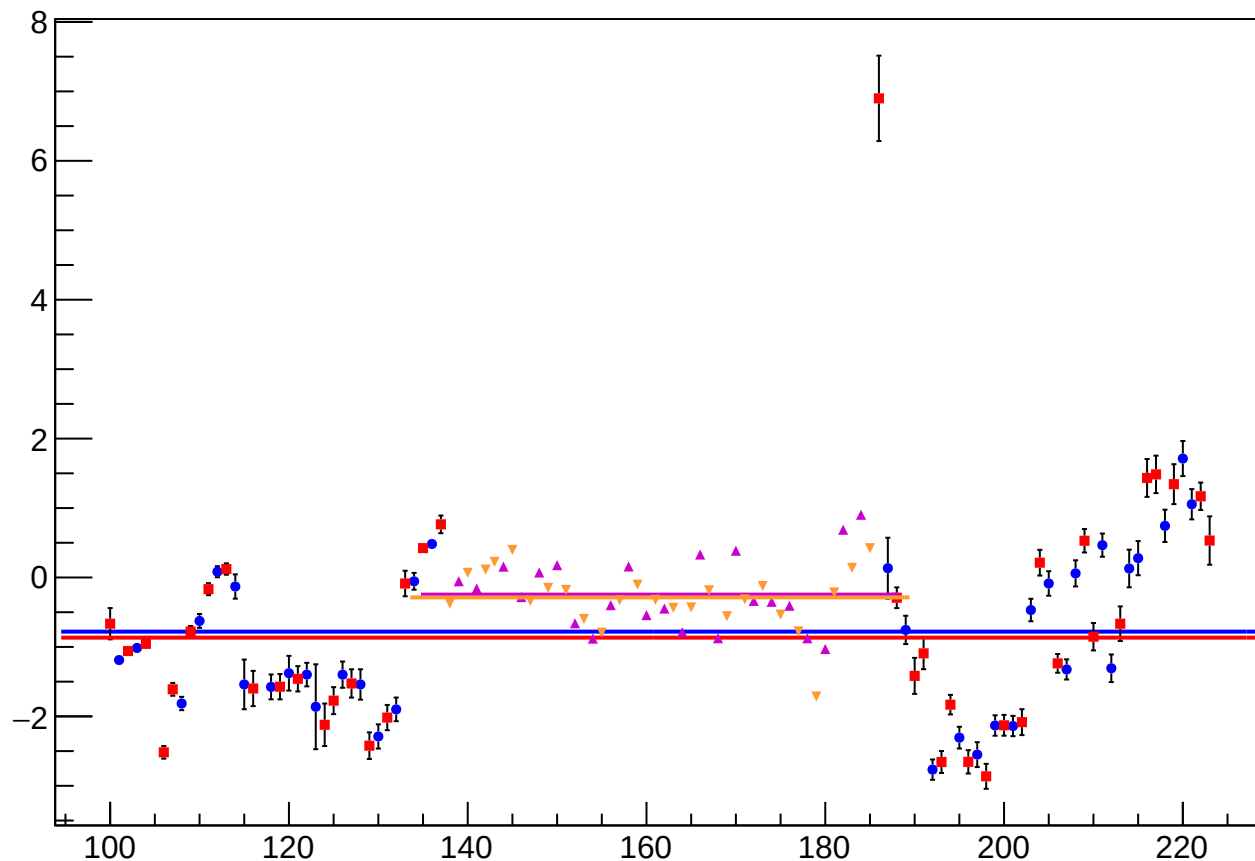
Right: 101.135 $\pm$ 0.313 χ^2 /NDF: 16622.2/73

In: 106.386 $\pm$ 0.184 χ^2 /NDF: 13471.6/57

Out: 107.365 $\pm$ 0.180 χ^2 /NDF: 16540.2/63

All: 106.886 $\pm$ 0.129 χ^2 /NDF: 30026.3/121

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.780 ± 0.022 χ^2/NDF : 1909.4/34

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.866 ± 0.021 χ^2/NDF : 2451.5/38

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

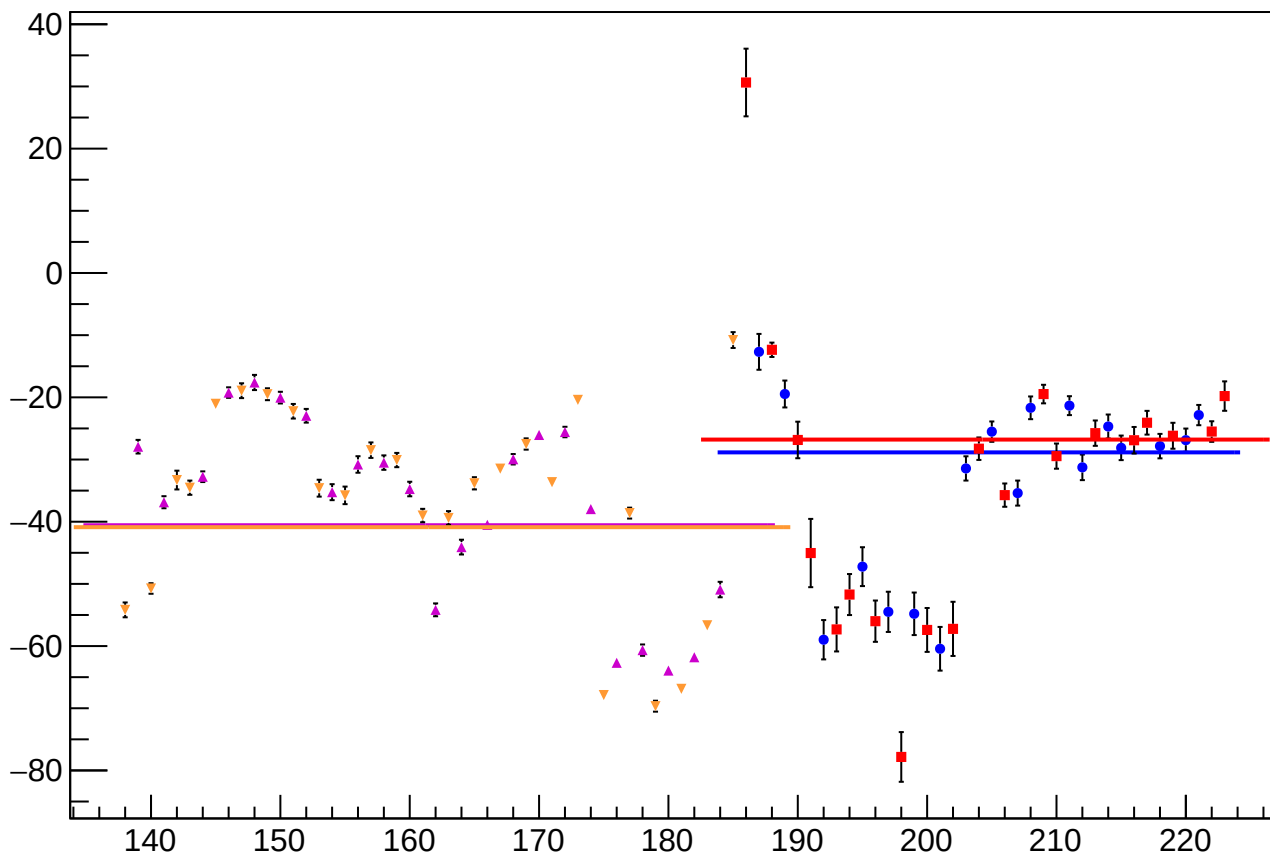
Right: -0.825 ± 0.015 χ^2/NDF : 4368.8/73

In: -0.326 ± 0.009 χ^2/NDF : 5193.4/57

Out: -0.377 ± 0.008 χ^2/NDF : 5135.6/63

All: -0.352 ± 0.006 χ^2/NDF : 10347.3/121

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -28.850 ± 0.494 $\chi^2/\text{NDF}: 454.4/17$

Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$

Right Out: -26.791 ± 0.489 $\chi^2/\text{NDF}: 835.3/19$

Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$

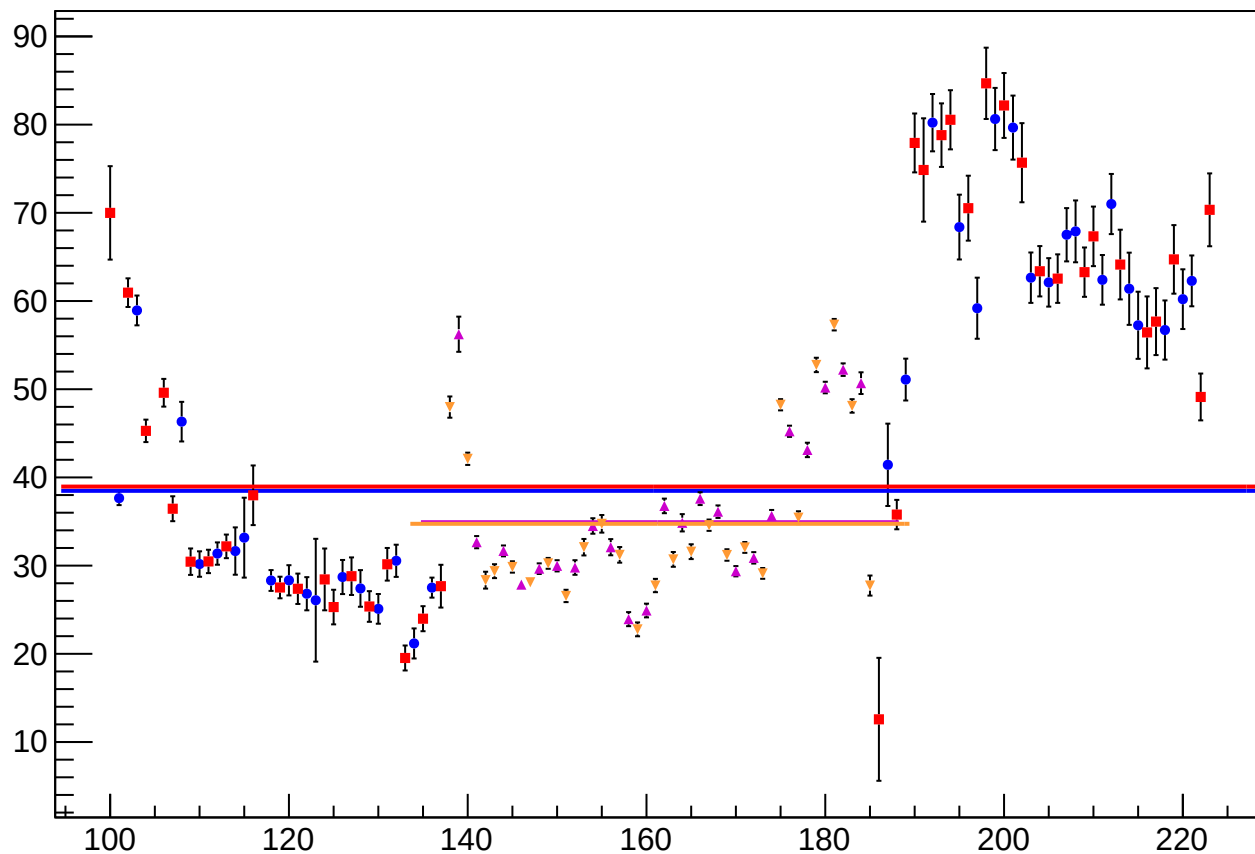
Right: -27.810 ± 0.347 $\chi^2/\text{NDF}: 1298.5/37$

In: -39.058 ± 0.177 $\chi^2/\text{NDF}: 7899.5/40$

Out: -39.096 ± 0.174 $\chi^2/\text{NDF}: 10683.7/44$

All: -39.078 ± 0.124 $\chi^2/\text{NDF}: 18583.2/85$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 38.479 ± 0.337 $\chi^2/\text{NDF}: 1949.1/34$

Left Out: 34.741 ± 0.147 $\chi^2/\text{NDF}: 3693.2/24$

Right Out: 38.962 ± 0.337 $\chi^2/\text{NDF}: 2374.8/38$

Left In: 34.922 ± 0.152 $\chi^2/\text{NDF}: 2672.9/22$

Left: 34.829 ± 0.106 $\chi^2/\text{NDF}: 6366.8/47$

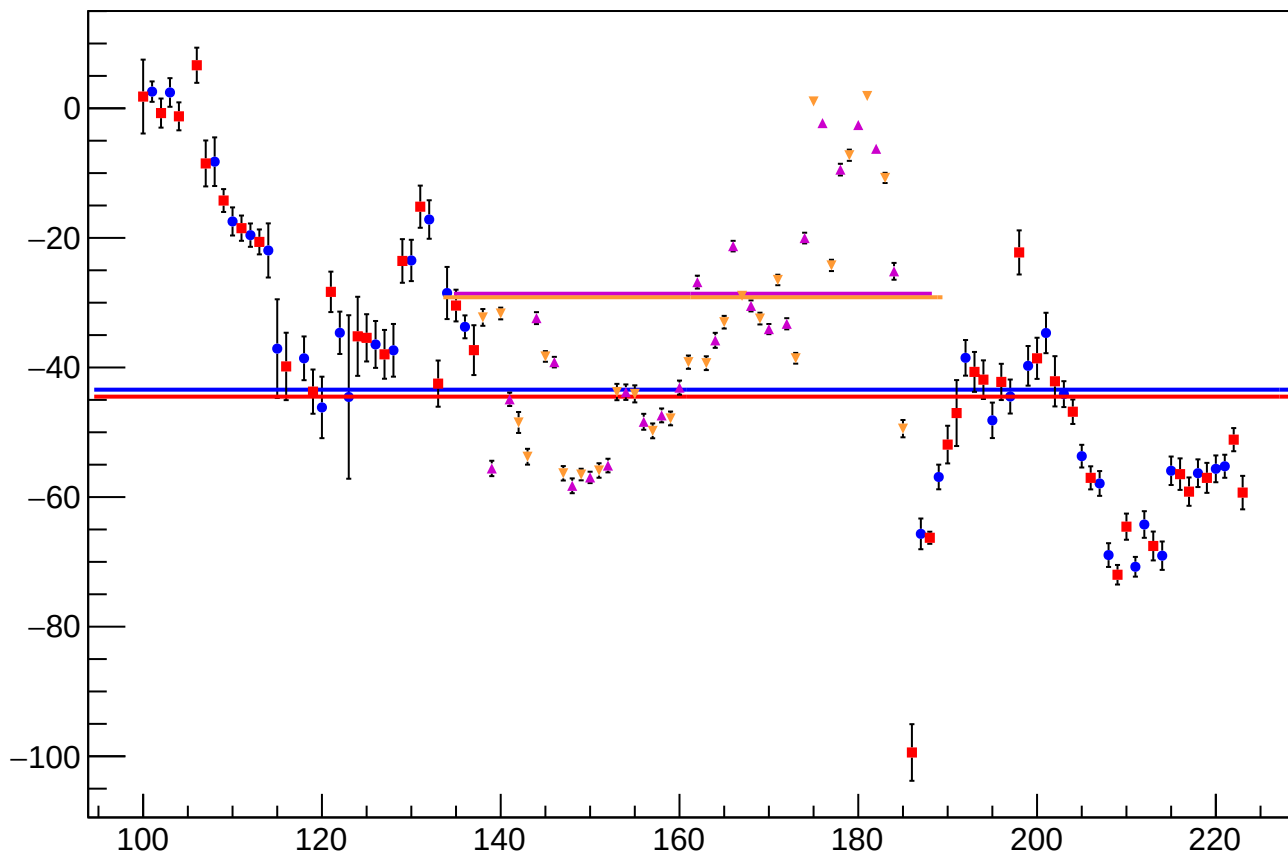
Right: 38.721 ± 0.238 $\chi^2/\text{NDF}: 4324.9/73$

In: 35.520 ± 0.138 $\chi^2/\text{NDF}: 4714.5/57$

Out: 35.419 ± 0.135 $\chi^2/\text{NDF}: 6199.7/63$

All: 35.468 ± 0.097 $\chi^2/\text{NDF}: 10914.4/121$

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -43.423 ± 0.398 χ^2/NDF : 3043.7/34

Left Out: -29.163 ± 0.187 χ^2/NDF : 10126.0/24

Right Out: -44.498 ± 0.382 χ^2/NDF : 3618.1/38

Left In: -28.616 ± 0.190 χ^2/NDF : 9040.9/22

Left: -28.894 ± 0.133 χ^2/NDF : 19171.1/47

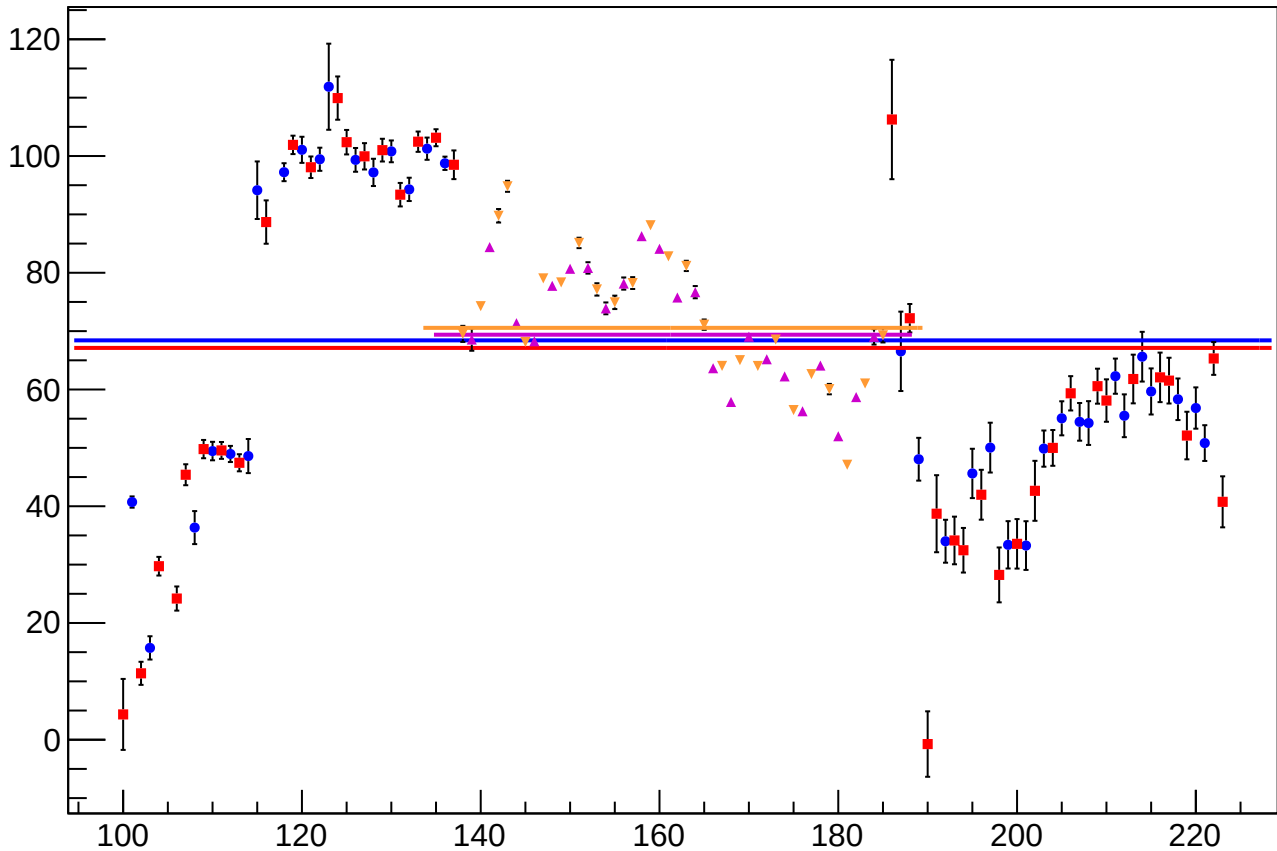
Right: -43.983 ± 0.275 χ^2/NDF : 6665.7/73

In: -31.360 ± 0.171 χ^2/NDF : 13212.0/57

Out: -32.133 ± 0.168 χ^2/NDF : 15046.5/63

All: -31.754 ± 0.120 χ^2/NDF : 28268.8/121

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 68.419 ± 0.384 $\chi^2/\text{NDF}: 5239.1/34$

Left Out: 70.563 ± 0.166 $\chi^2/\text{NDF}: 4589.1/24$

Right Out: 67.126 ± 0.386 $\chi^2/\text{NDF}: 6190.6/38$

Left In: 69.387 ± 0.170 $\chi^2/\text{NDF}: 3321.8/22$

Left: 69.989 ± 0.119 $\chi^2/\text{NDF}: 7935.4/47$

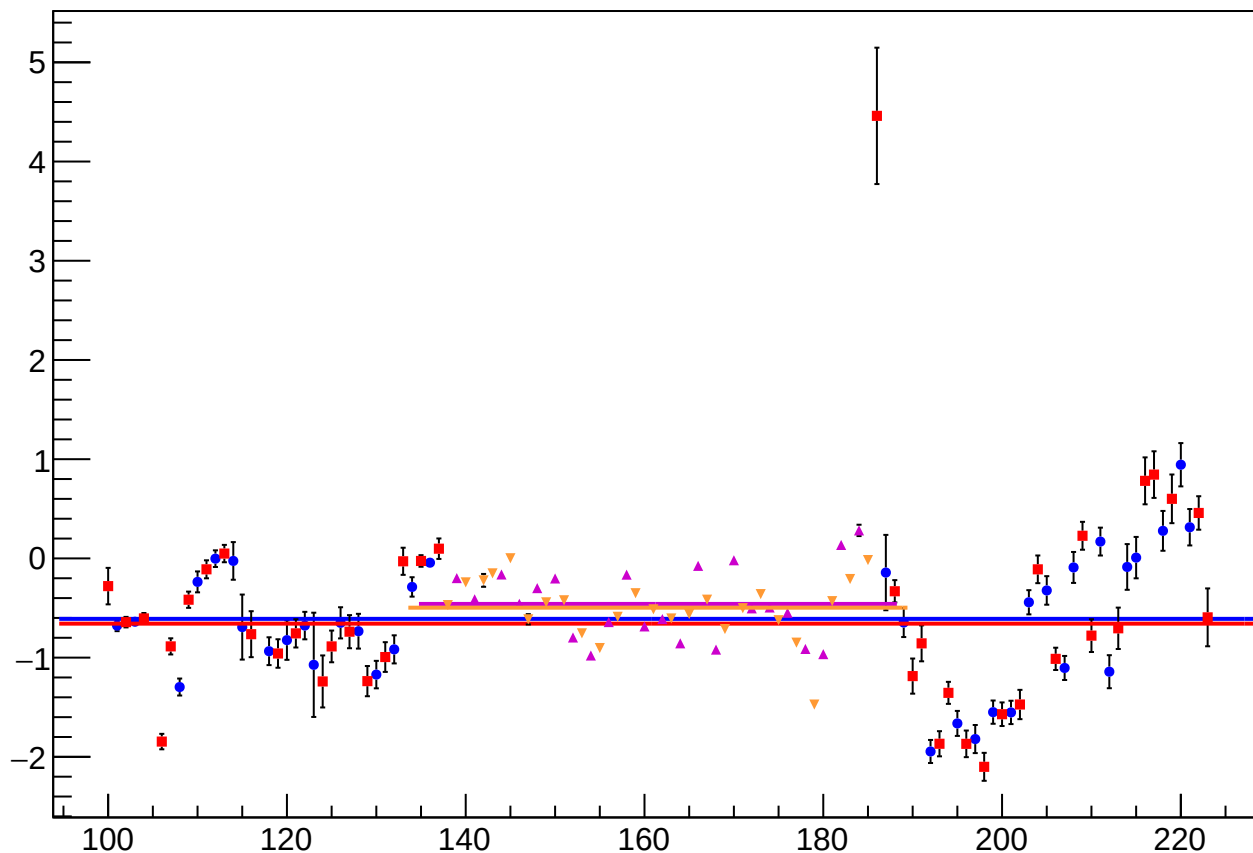
Right: 67.777 ± 0.272 $\chi^2/\text{NDF}: 11435.4/73$

In: 69.228 ± 0.156 $\chi^2/\text{NDF}: 8566.3/57$

Out: 70.026 ± 0.153 $\chi^2/\text{NDF}: 10846.5/63$

All: 69.635 ± 0.109 $\chi^2/\text{NDF}: 19426.2/121$

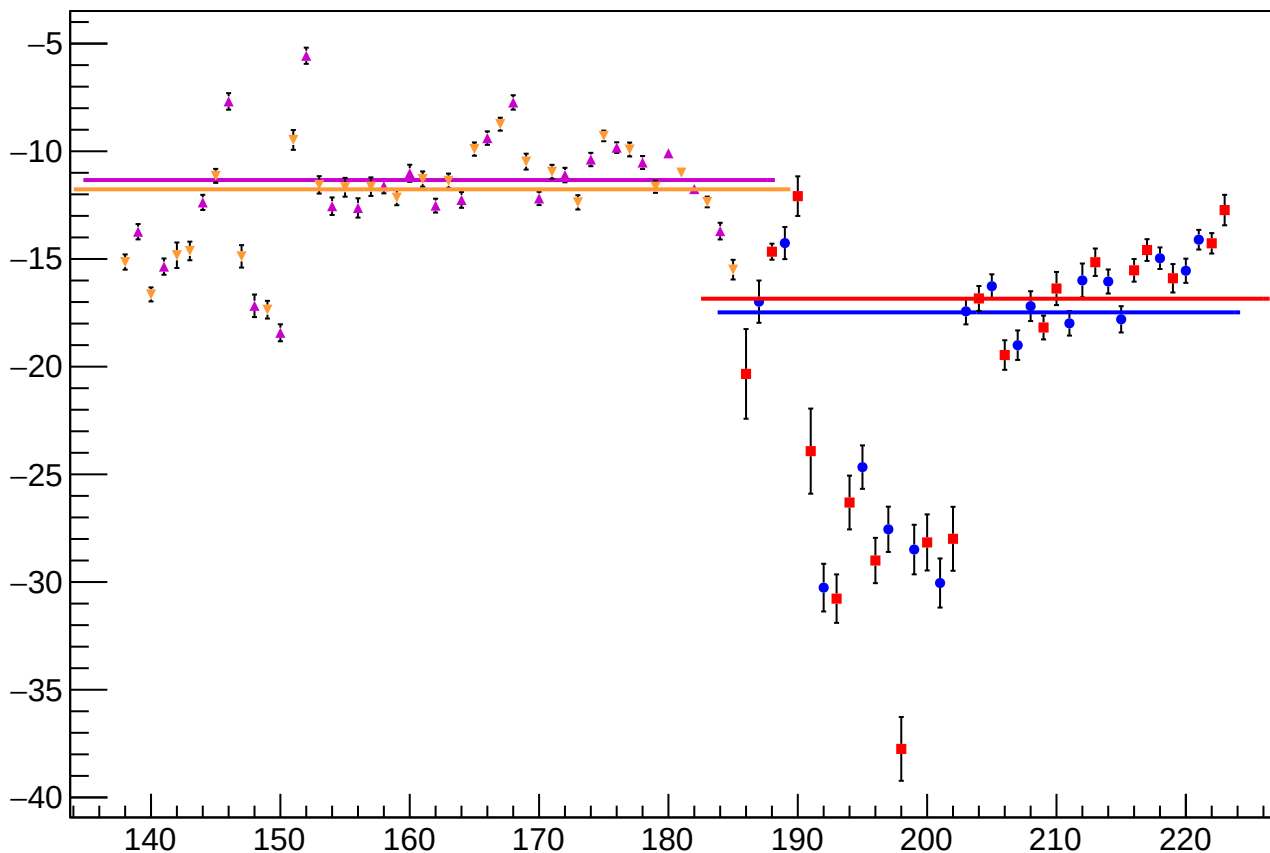
reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.609 ± 0.019 χ^2/NDF : 916.1/34
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.657 ± 0.018 χ^2/NDF : 1274.3/38
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.634 ± 0.013 χ^2/NDF : 2193.8/73
 In: -0.480 ± 0.007 χ^2/NDF : 2929.0/57
 Out: -0.521 ± 0.007 χ^2/NDF : 2790.2/63
 All: -0.501 ± 0.005 χ^2/NDF : 5735.3/121

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -17.479 ± 0.158 χ^2/NDF : 620.4/17
 Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24
 Right Out: -16.845 ± 0.155 χ^2/NDF : 871.6/19
 Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47

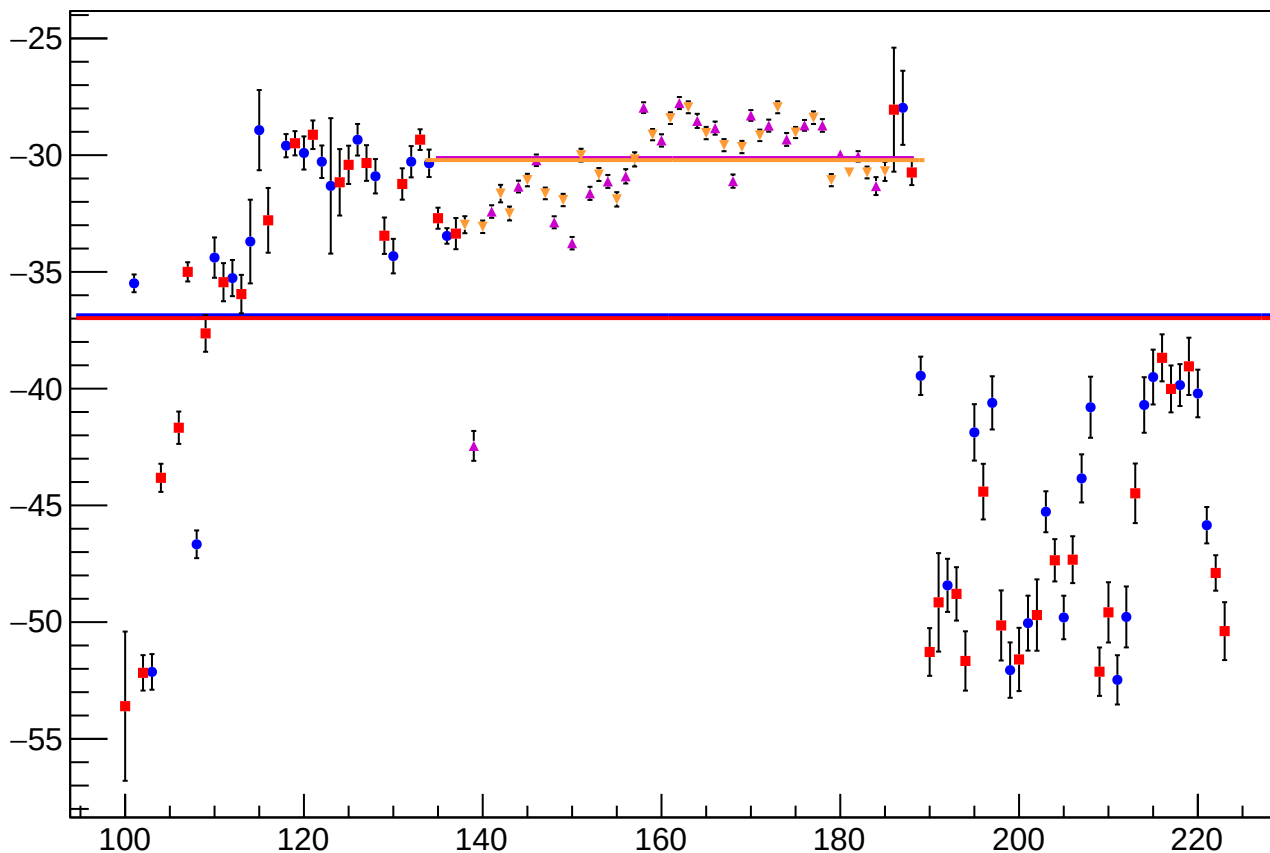
Right: -17.155 ± 0.111 χ^2/NDF : 1500.2/37

In: -12.292 ± 0.063 χ^2/NDF : 3158.3/40

Out: -12.558 ± 0.061 χ^2/NDF : 2796.2/44

All: -12.428 ± 0.044 χ^2/NDF : 5963.7/85

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



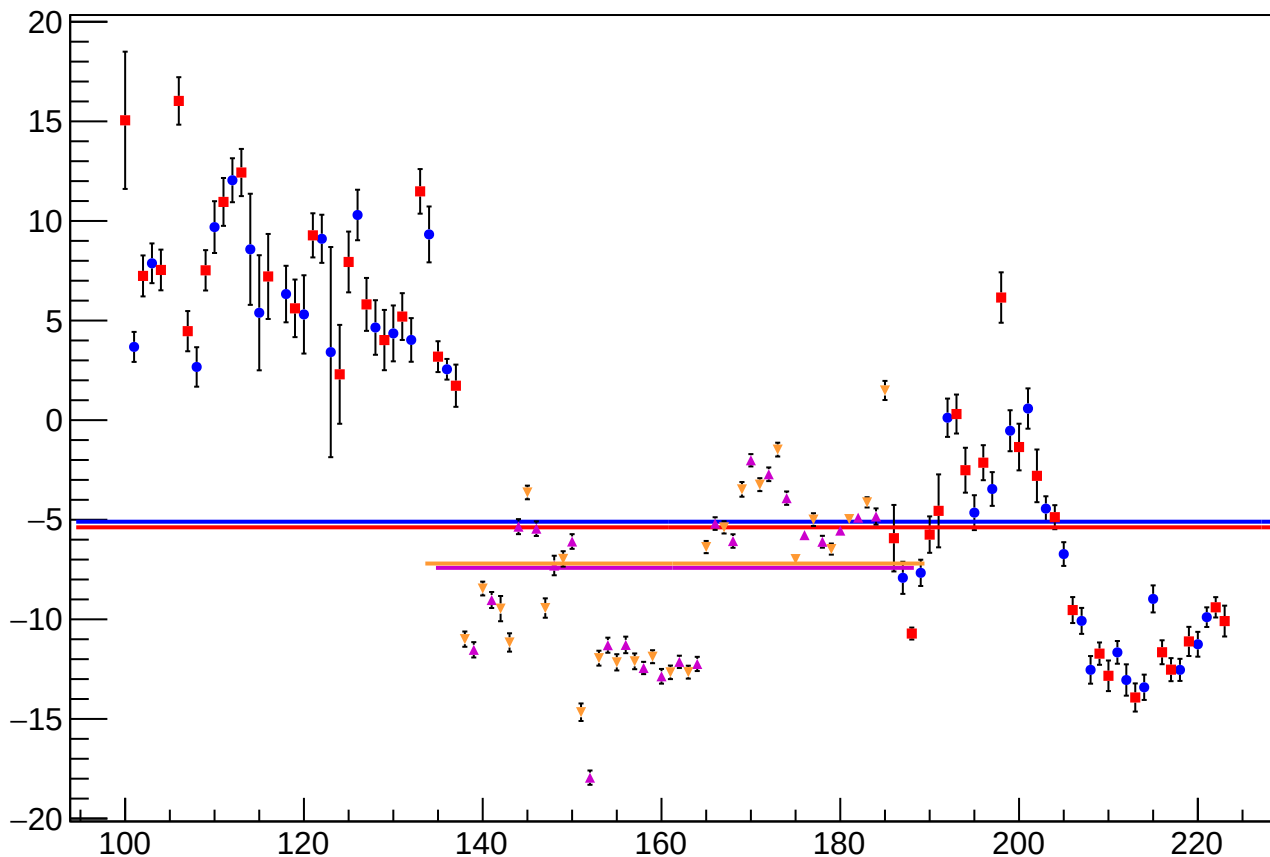
Right In: -36.859 ± 0.130 χ^2/NDF : 2938.6/34
 Left Out: -30.212 ± 0.054 χ^2/NDF : 734.0/24
 Right Out: -36.979 ± 0.128 χ^2/NDF : 3514.9/38
 Left In: -30.124 ± 0.056 χ^2/NDF : 1226.2/22

Left: -30.169 ± 0.039 χ^2/NDF : 1961.5/47
 Right: -36.920 ± 0.091 χ^2/NDF : 6453.9/73

In: -31.169 ± 0.051 χ^2/NDF : 6448.3/57
 Out: -31.236 ± 0.050 χ^2/NDF : 6638.2/63

All: -31.203 ± 0.036 χ^2/NDF : 13087.4/121

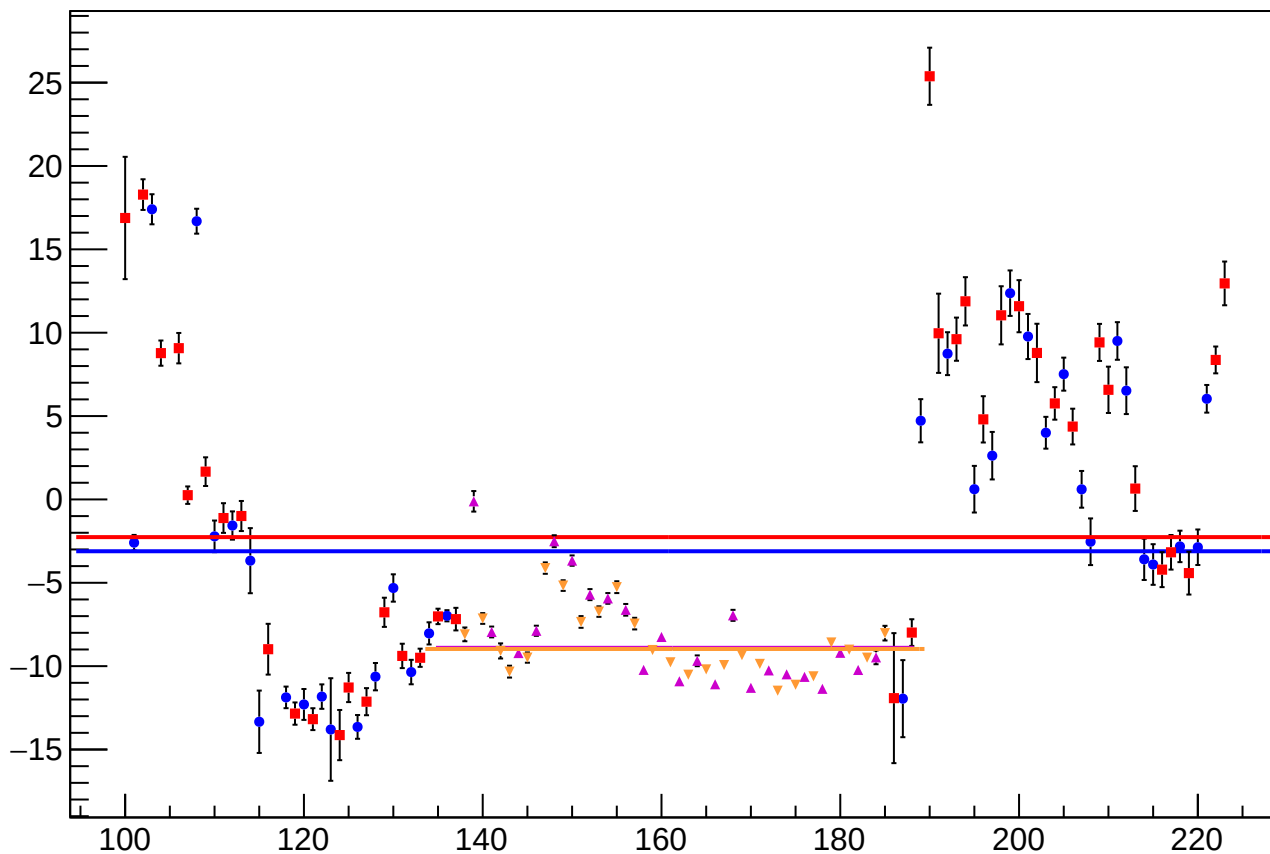
reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.098 ± 0.138 $\chi^2/\text{NDF}: 2748.1/34$
 Left Out: -7.199 ± 0.067 $\chi^2/\text{NDF}: 3037.3/24$
 Right Out: -5.381 ± 0.133 $\chi^2/\text{NDF}: 3574.6/38$
 Left In: -7.415 ± 0.068 $\chi^2/\text{NDF}: 3123.3/22$

Left: -7.305 ± 0.048 $\chi^2/\text{NDF}: 6165.7/47$
 Right: -5.245 ± 0.096 $\chi^2/\text{NDF}: 6324.9/73$
 In: -6.965 ± 0.061 $\chi^2/\text{NDF}: 6097.6/57$
 Out: -6.833 ± 0.060 $\chi^2/\text{NDF}: 6760.6/63$
 All: -6.898 ± 0.043 $\chi^2/\text{NDF}: 12860.6/121$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.109 ± 0.146 χ^2/NDF : 3139.5/34

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.261 ± 0.147 χ^2/NDF : 3564.1/38

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

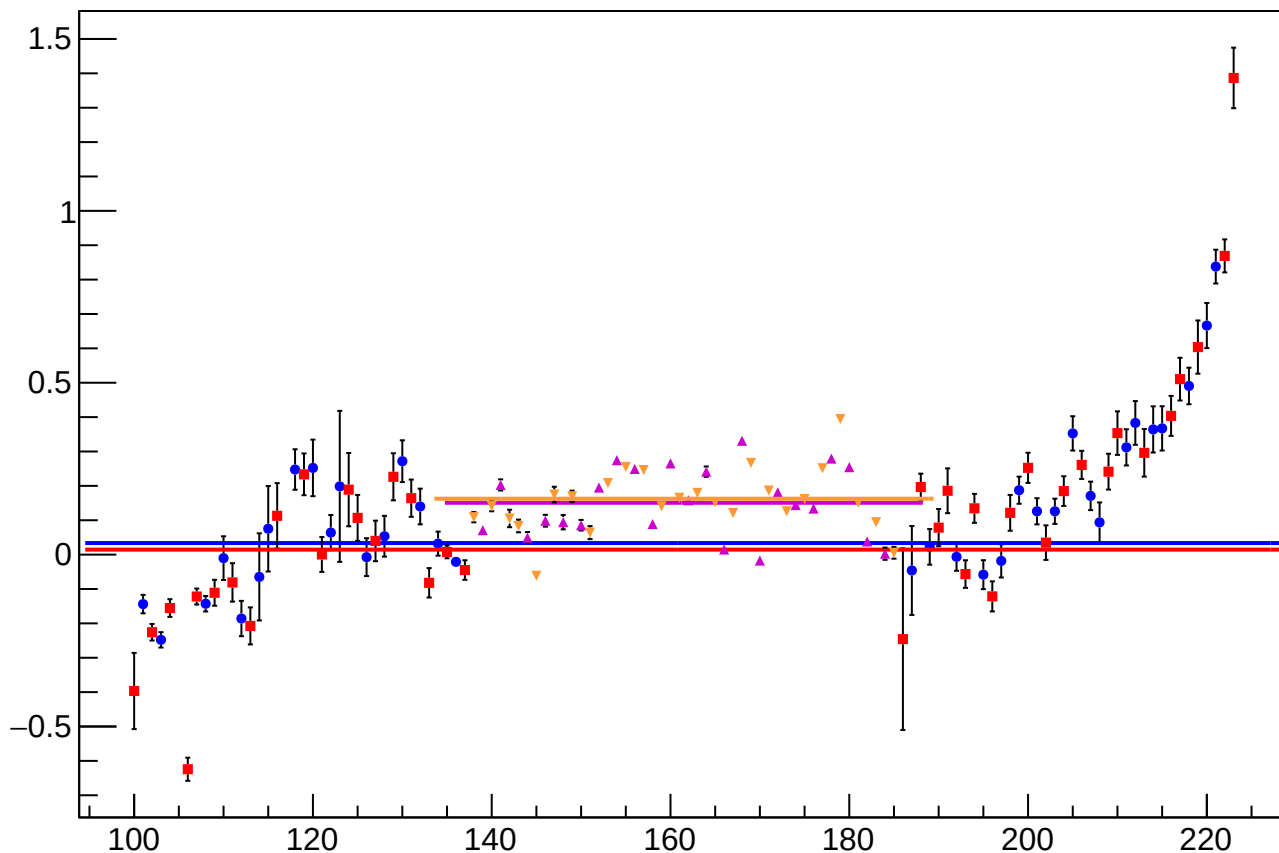
Right: -2.688 ± 0.103 χ^2/NDF : 6720.4/73

In: -8.020 ± 0.057 χ^2/NDF : 6015.2/57

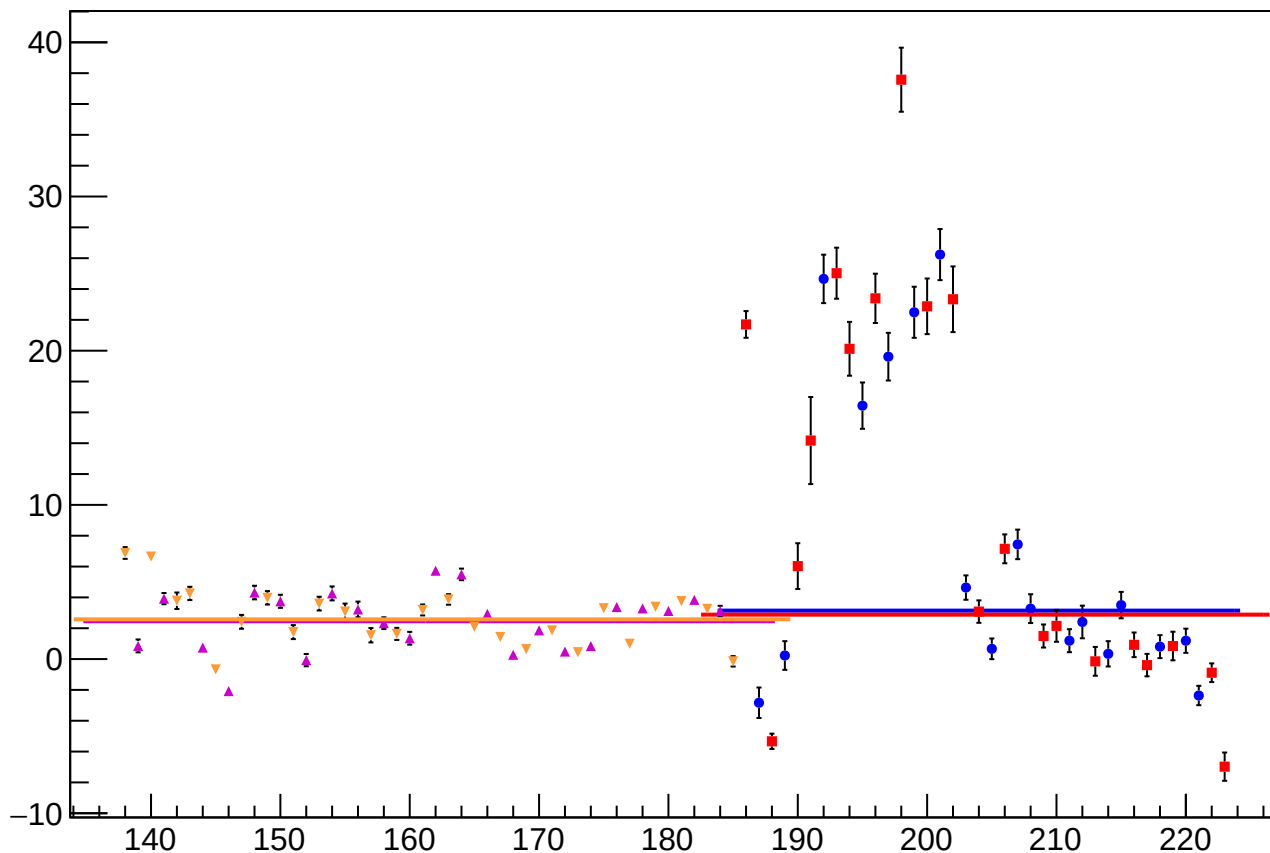
Out: -8.003 ± 0.056 χ^2/NDF : 6235.5/63

All: -8.011 ± 0.040 χ^2/NDF : 12250.7/121

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.142 ± 0.215 $\chi^2/\text{NDF}: 905.5/17$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 2.881 ± 0.207 $\chi^2/\text{NDF}: 1922.2/19$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

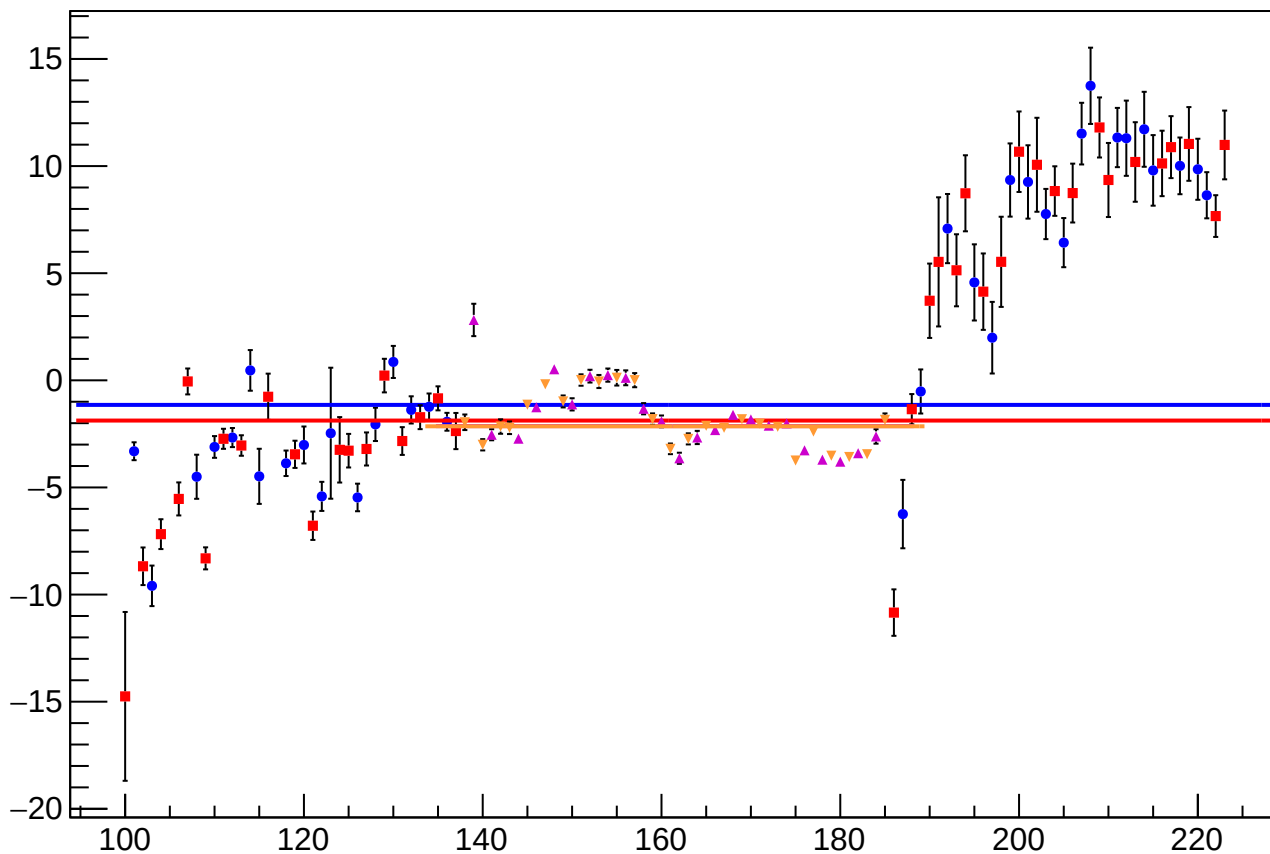
Right: 3.007 ± 0.149 $\chi^2/\text{NDF}: 2828.5/37$

In: 2.501 ± 0.057 $\chi^2/\text{NDF}: 1786.3/40$

Out: 2.599 ± 0.056 $\chi^2/\text{NDF}: 2791.7/44$

All: 2.551 ± 0.040 $\chi^2/\text{NDF}: 4579.5/85$

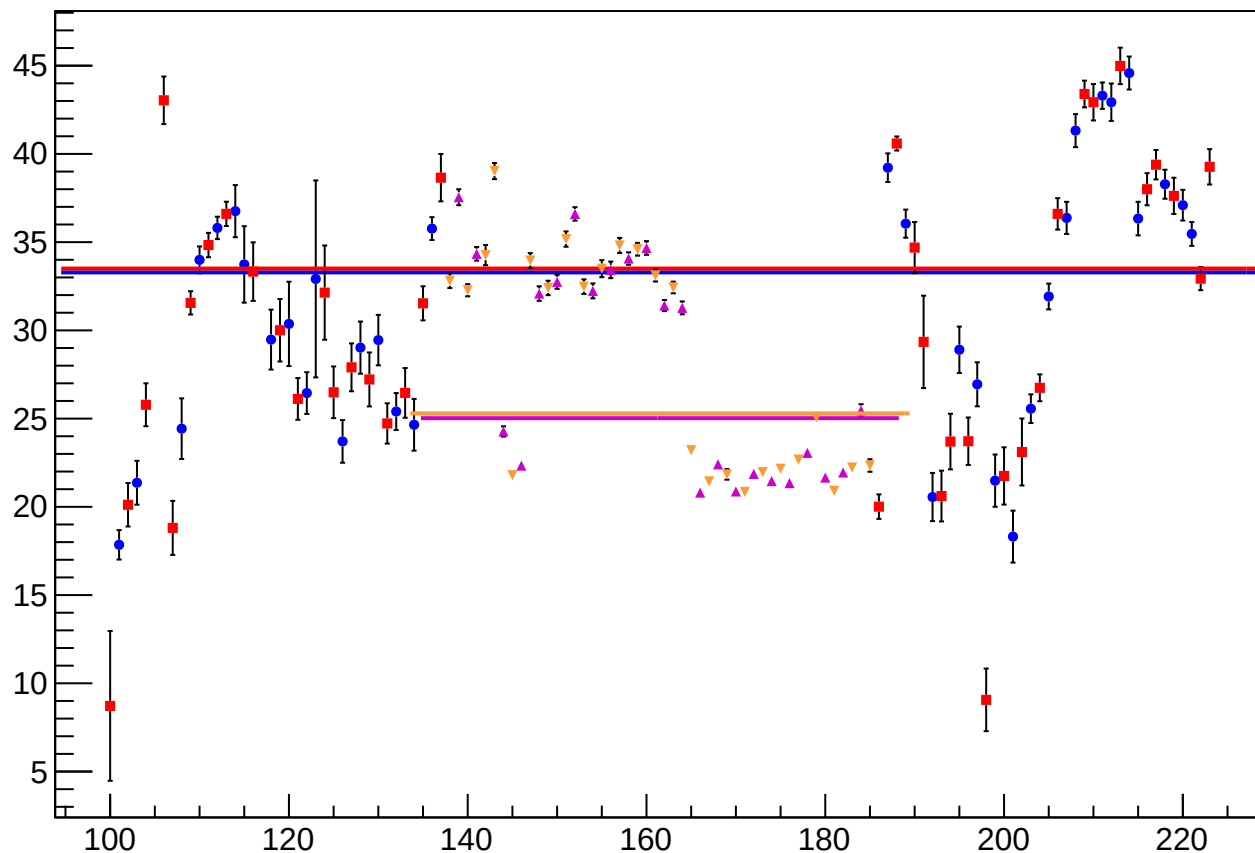
reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.147 ± 0.141 $\chi^2/\text{NDF}: 1093.2/34$
 Left Out: -2.146 ± 0.048 $\chi^2/\text{NDF}: 573.4/24$
 Right Out: -1.878 ± 0.139 $\chi^2/\text{NDF}: 1326.5/38$
 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: -1.518 ± 0.099 $\chi^2/\text{NDF}: 2433.4/73$
 In: -2.032 ± 0.046 $\chi^2/\text{NDF}: 1828.6/57$
 Out: -2.118 ± 0.045 $\chi^2/\text{NDF}: 1903.2/63$
 All: -2.075 ± 0.032 $\chi^2/\text{NDF}: 3733.6/121$

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 33.286 $\pm$ 0.168 χ^2 /NDF: 1726.9/34

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF: 8272.3/24

Right Out: 33.503 $\pm$ 0.159 χ^2 /NDF: 2302.6/38

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

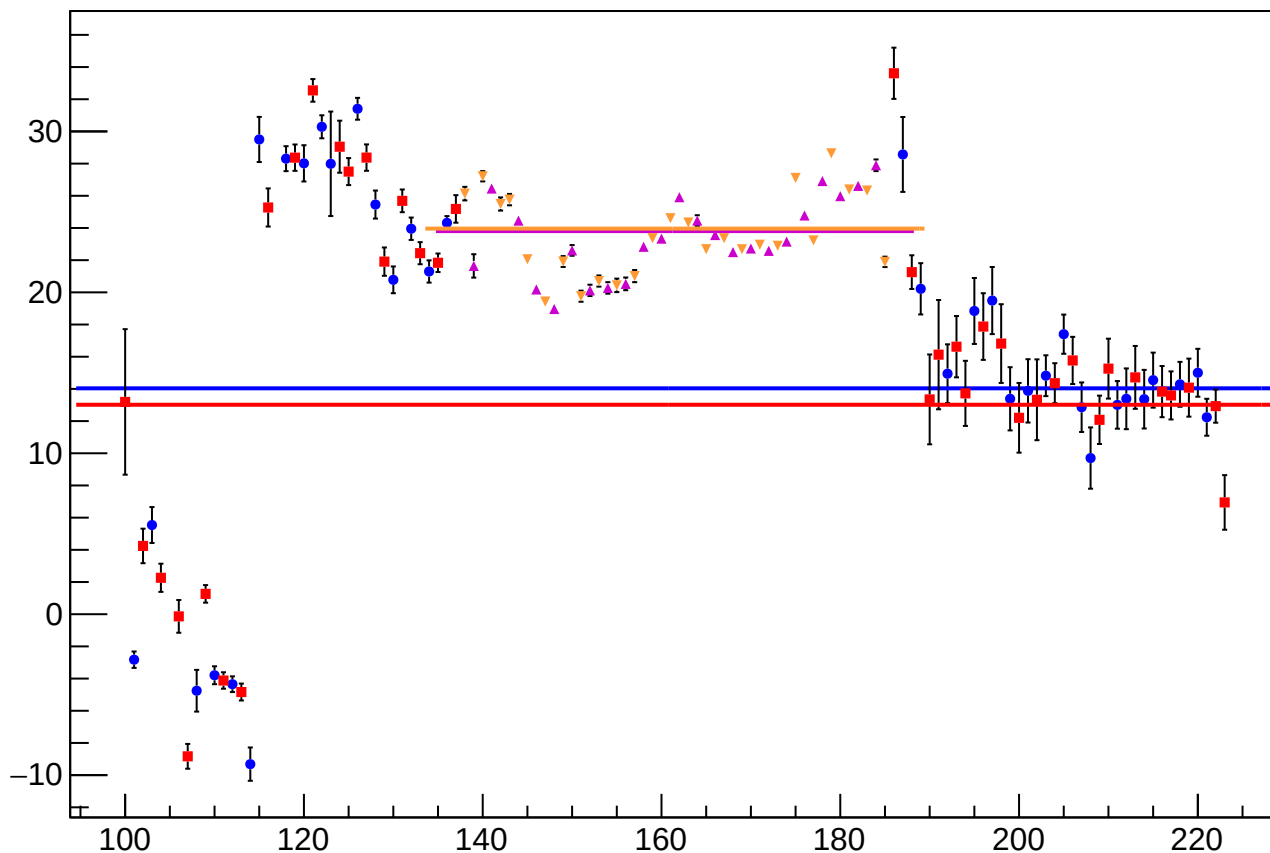
Right: 33.401 $\pm$ 0.115 χ^2 /NDF: 4030.4/73

In: 25.947 $\pm$ 0.056 χ^2 /NDF: 11480.4/57

Out: 26.286 $\pm$ 0.055 χ^2 /NDF: 12922.8/63

All: 26.120 $\pm$ 0.039 χ^2 /NDF: 24421.7/121

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.036 $\pm$ 0.157 χ^2 /NDF: 7360.5/34

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.015 $\pm$ 0.157 χ^2 /NDF: 7228.4/38

Left In: 23.805 $\pm$ 0.054 χ^2 /NDF:1761.3/22

Left: 23.885 $\pm$ 0.038 χ^2 /NDF: 3688.0/47

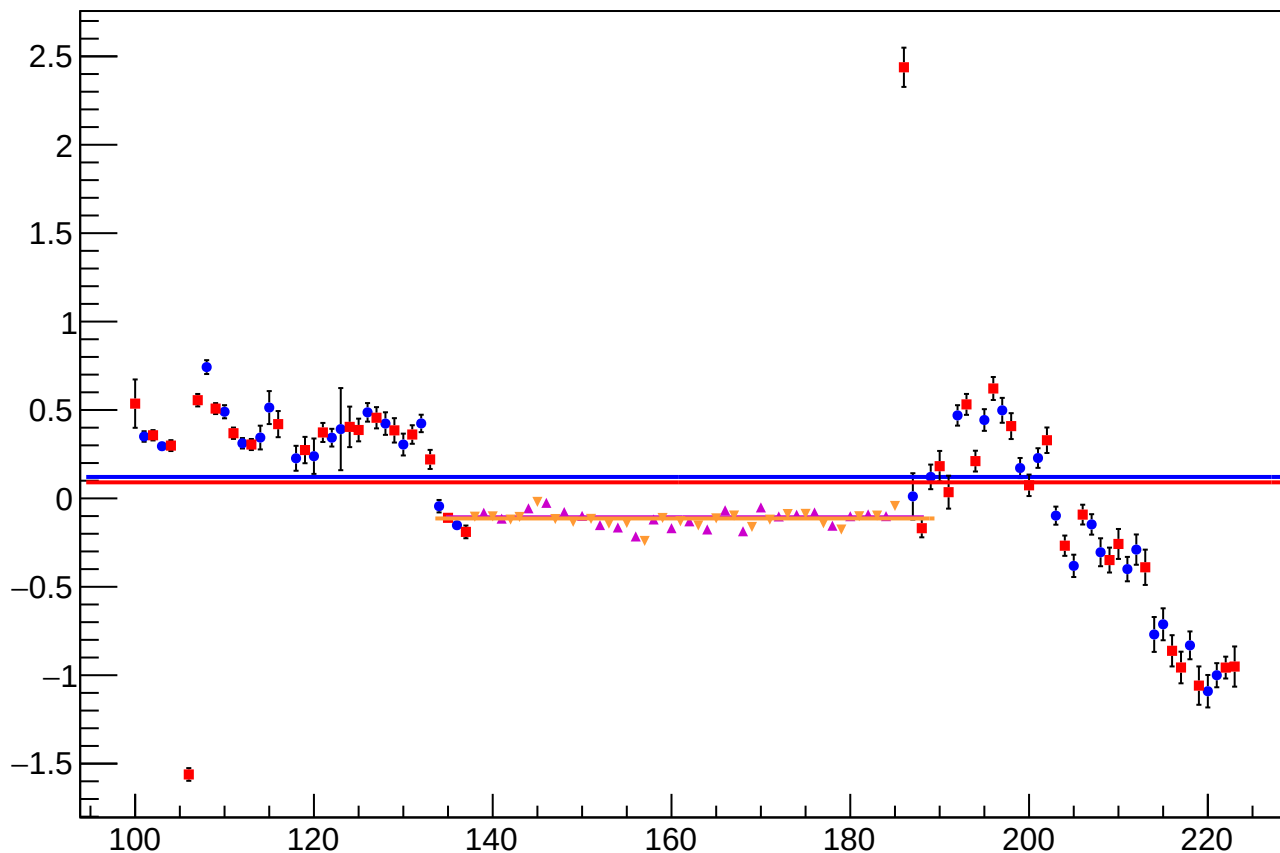
Right: 13.525 $\pm$ 0.111 χ^2 /NDF: 14610.0/73

In: 22.775 $\pm$ 0.051 χ^2 /NDF:12568.1/57

Out: 22.841 $\pm$ 0.050 χ^2 /NDF:13495.8/63

All: 22.808 $\pm$ 0.036 χ^2 /NDF: 26064.7/121

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.121 ± 0.008 χ^2/NDF : 1992.9/34

Left Out: -0.113 ± 0.002 χ^2/NDF : 291.0/24

Right Out: 0.091 ± 0.008 χ^2/NDF : 4538.1/38

Left In: -0.107 ± 0.002 χ^2/NDF : 321.8/22

Left: -0.110 ± 0.002 χ^2/NDF : 616.6/47

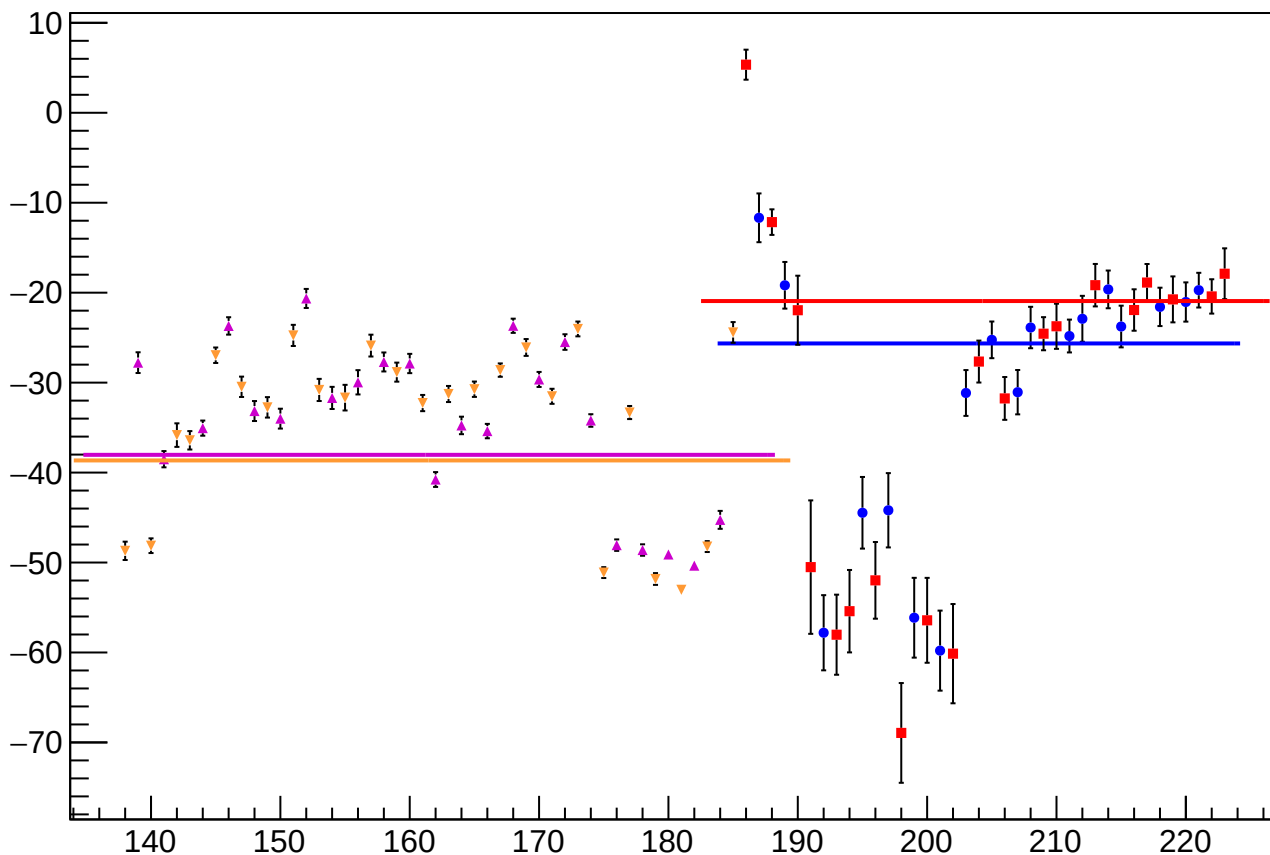
Right: 0.106 ± 0.006 χ^2/NDF : 6538.1/73

In: -0.087 ± 0.002 χ^2/NDF : 3037.3/57

Out: -0.096 ± 0.002 χ^2/NDF : 5427.9/63

All: -0.092 ± 0.002 χ^2/NDF : 8472.3/121

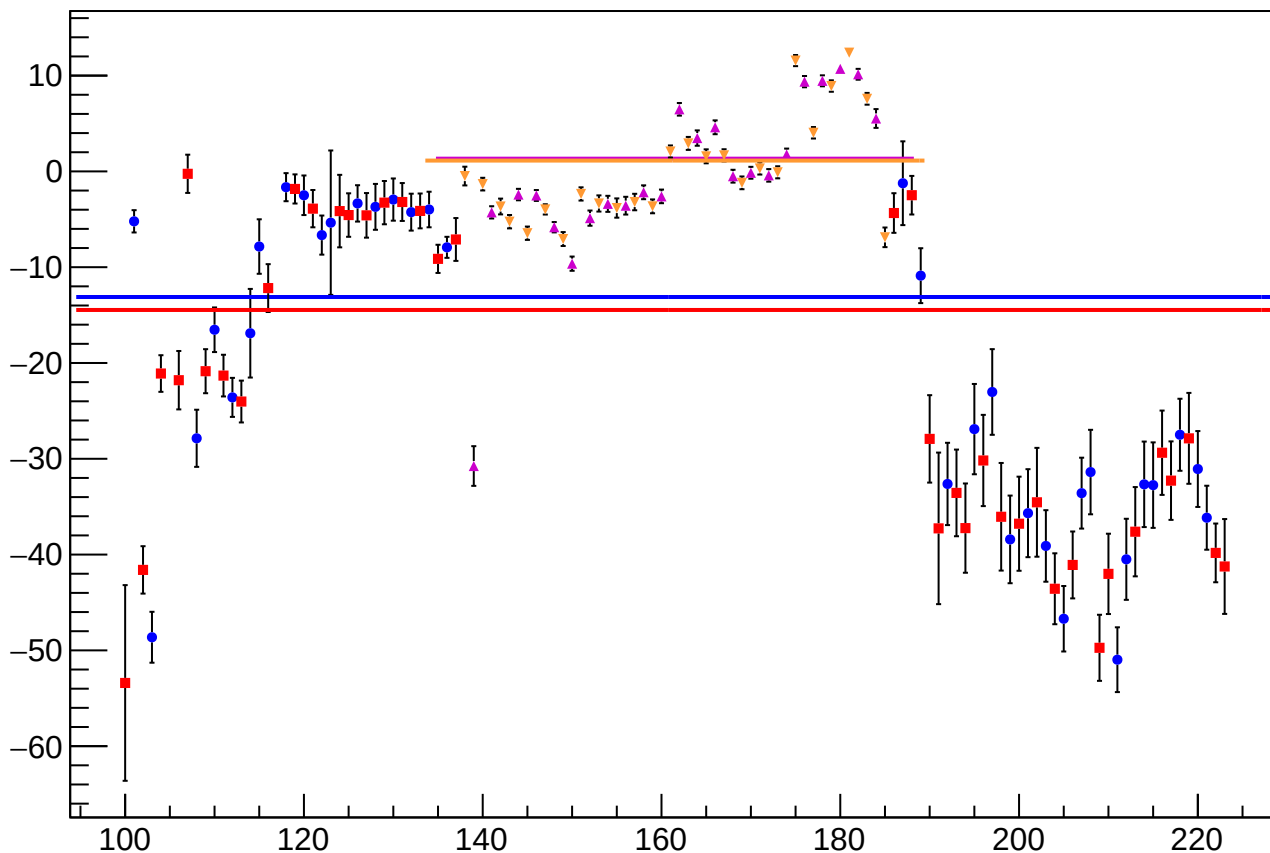
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -25.644 ± 0.589 χ^2/NDF : 278.6/17
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -20.931 ± 0.561 χ^2/NDF : 700.2/19
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -23.172 ± 0.406 χ^2/NDF : 1012.3/37
 In: -37.043 ± 0.166 χ^2/NDF : 3776.8/40
 Out: -37.176 ± 0.162 χ^2/NDF : 5691.2/44
 All: -37.111 ± 0.116 χ^2/NDF : 9468.4/85

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -13.112 ± 0.417 $\chi^2/\text{NDF}: 1089.8/34$

Left Out: 1.130 ± 0.136 $\chi^2/\text{NDF}: 1799.3/24$

Right Out: -14.465 ± 0.424 $\chi^2/\text{NDF}: 1102.6/38$

Left In: 1.329 ± 0.140 $\chi^2/\text{NDF}: 2048.0/22$

Left: 1.227 ± 0.097 $\chi^2/\text{NDF}: 3848.4/47$

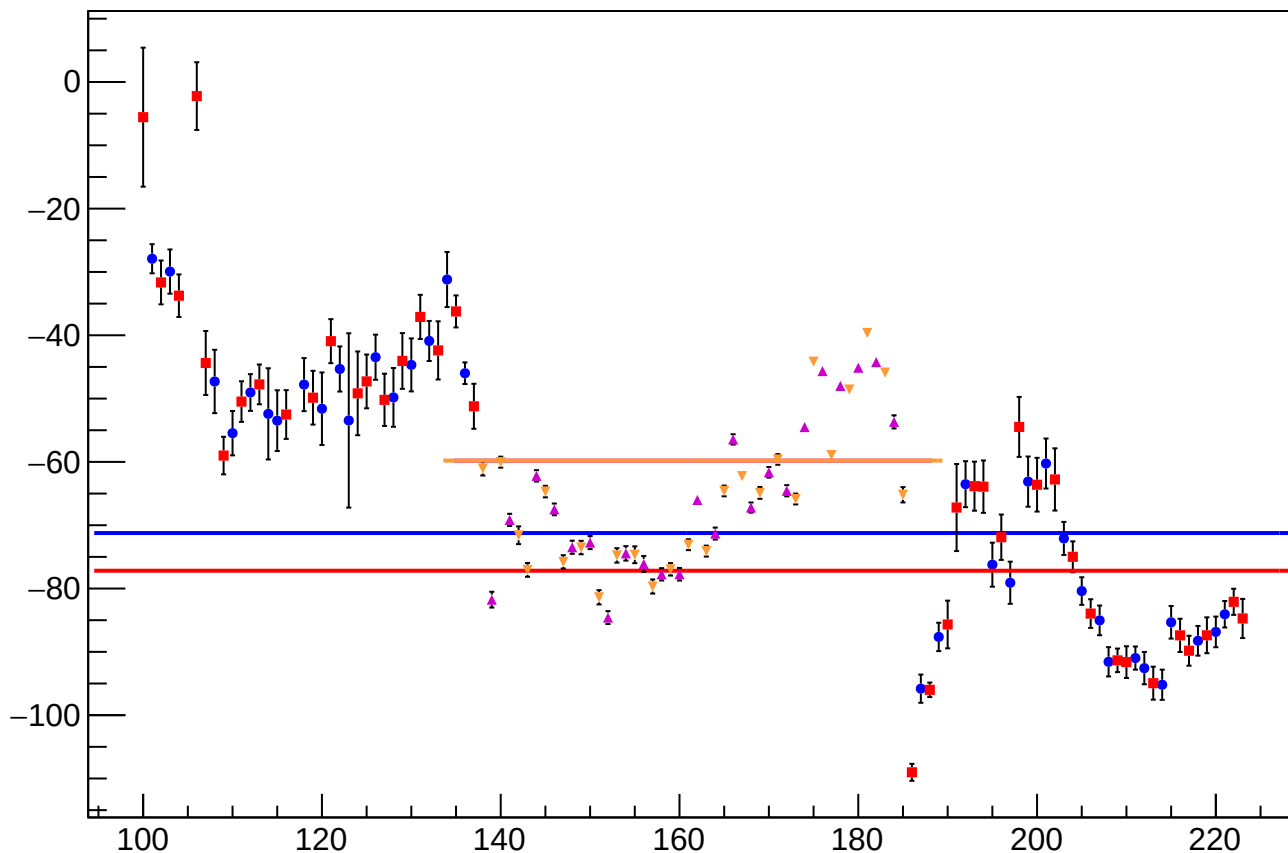
Right: -13.777 ± 0.297 $\chi^2/\text{NDF}: 2197.6/73$

In: -0.133 ± 0.133 $\chi^2/\text{NDF}: 4217.8/57$

Out: -0.326 ± 0.129 $\chi^2/\text{NDF}: 4129.8/63$

All: -0.232 ± 0.093 $\chi^2/\text{NDF}: 8348.8/121$

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -71.234 ± 0.483 χ^2/NDF : 2009.3/34

Left Out: -59.789 ± 0.170 χ^2/NDF : 5837.7/24

Right Out: -77.186 ± 0.455 χ^2/NDF : 2804.0/38

Left In: -59.802 ± 0.173 χ^2/NDF : 5217.5/22

Left: -59.795 ± 0.121 χ^2/NDF : 11055.3/47

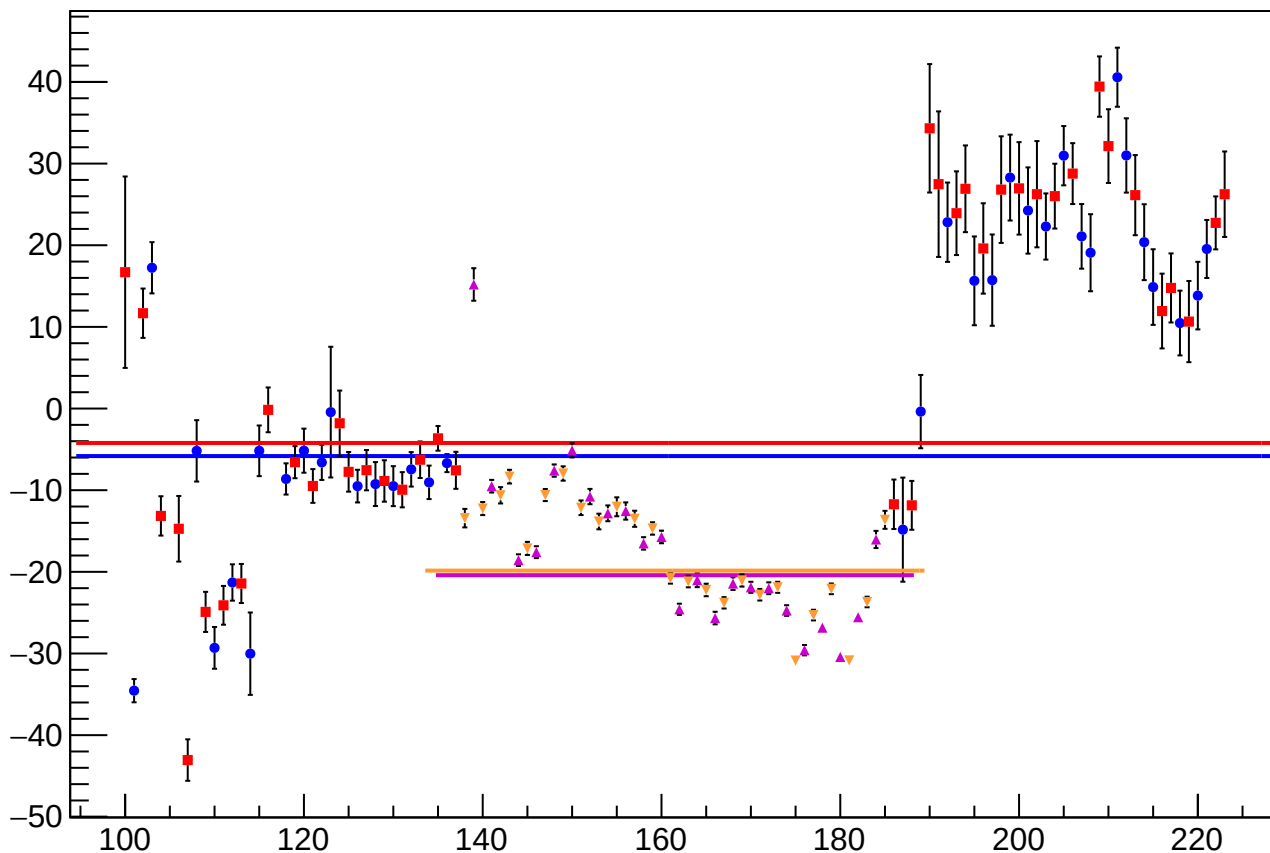
Right: -74.388 ± 0.331 χ^2/NDF : 4893.8/73

In: -61.106 ± 0.163 χ^2/NDF : 7723.2/57

Out: -61.923 ± 0.159 χ^2/NDF : 9924.5/63

All: -61.524 ± 0.114 χ^2/NDF : 17660.5/121

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected

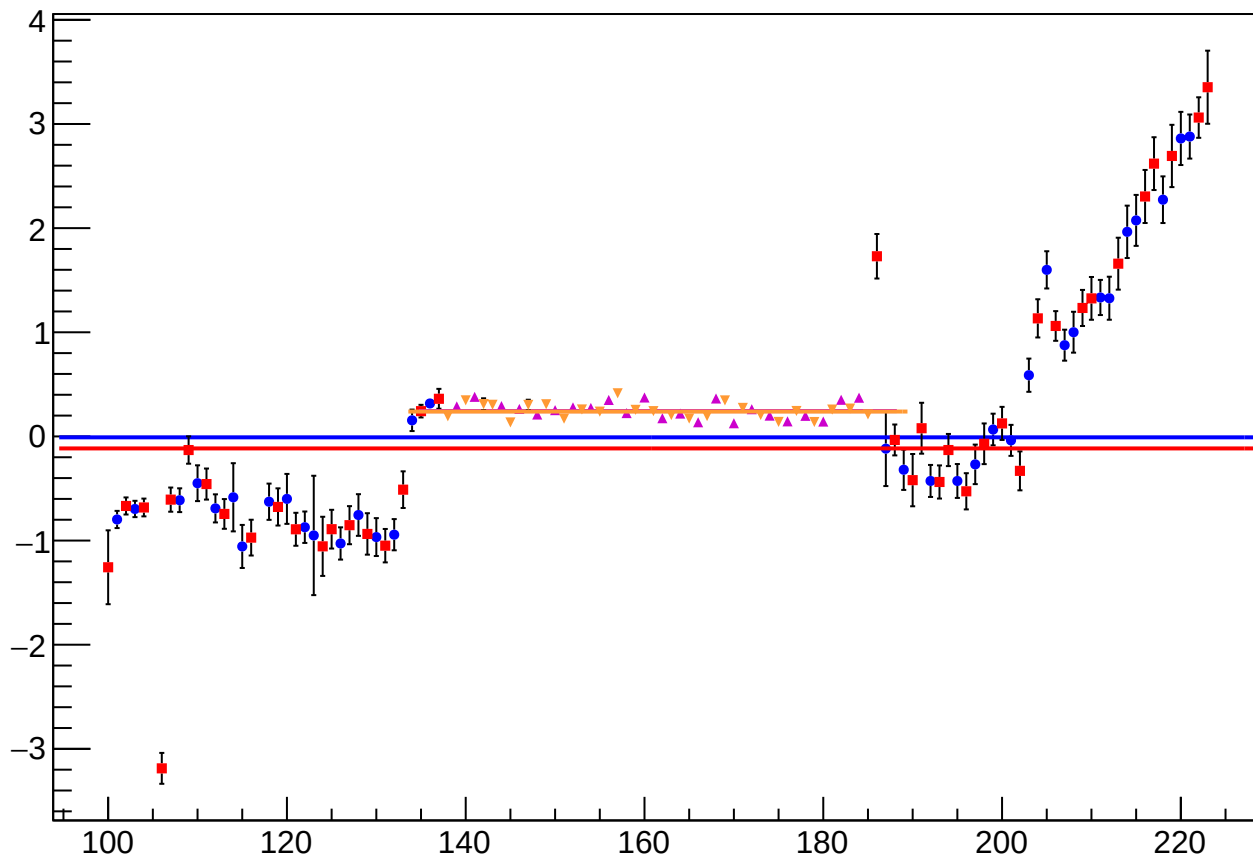


Right In: -5.821 ± 0.468 $\chi^2/\text{NDF}: 1372.1/34$
 Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$
 Right Out: -4.216 ± 0.485 $\chi^2/\text{NDF}: 1236.6/38$
 Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$
 Right: -5.046 ± 0.337 $\chi^2/\text{NDF}: 2614.4/73$
 In: -18.941 ± 0.149 $\chi^2/\text{NDF}: 4547.5/57$
 Out: -18.434 ± 0.146 $\chi^2/\text{NDF}: 4114.6/63$

All: -18.682 ± 0.104 $\chi^2/\text{NDF}: 8668.0/121$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.009 ± 0.023 χ^2/NDF : 1318.8/34

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.115 ± 0.024 χ^2/NDF : 1815.1/38

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

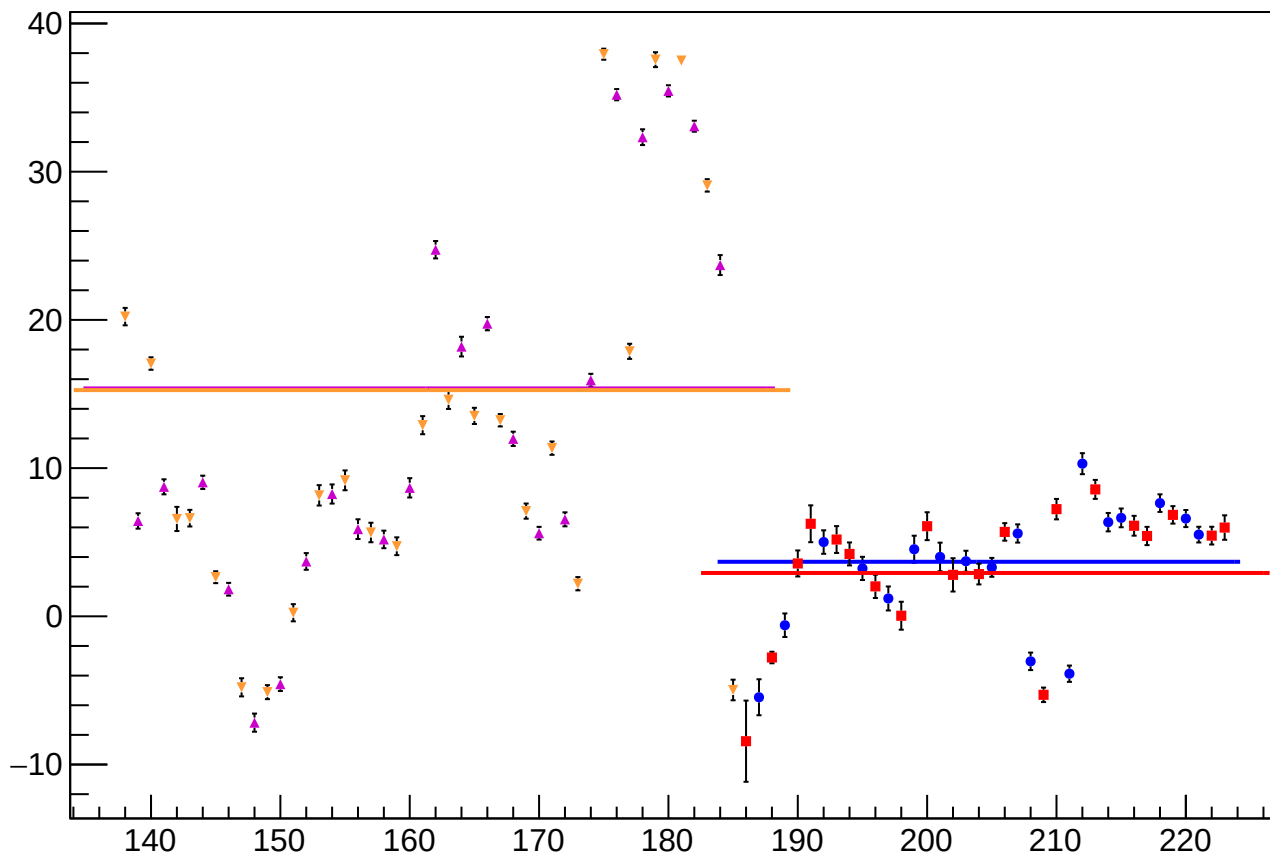
Right: -0.061 ± 0.017 χ^2/NDF : 3144.1/73

In: 0.222 ± 0.007 χ^2/NDF : 1563.6/57

Out: 0.211 ± 0.007 χ^2/NDF : 2111.0/63

All: 0.216 ± 0.005 χ^2/NDF : 3675.9/121

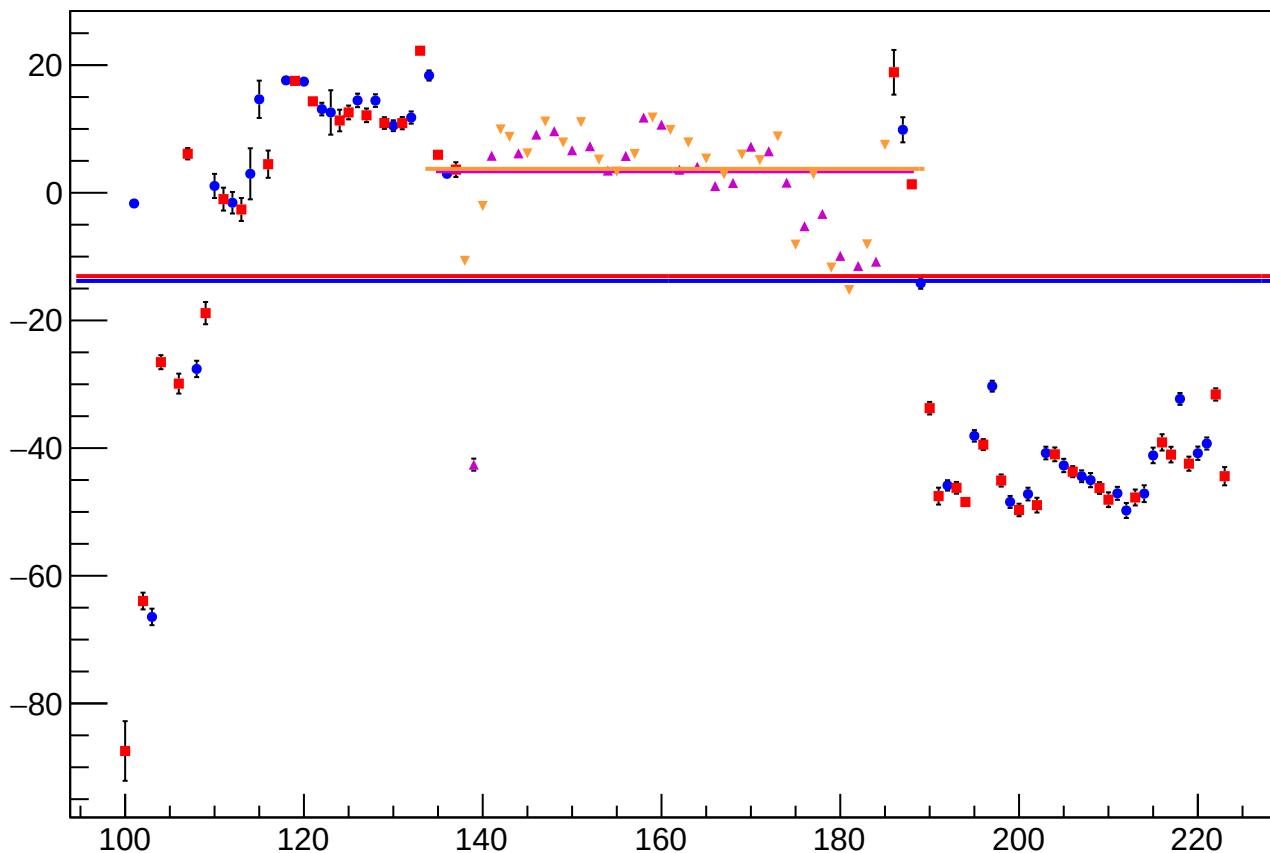
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.679 ± 0.160 χ^2/NDF : 636.8/17
 Left Out: 15.263 ± 0.100 χ^2/NDF : 19175.2/24
 Right Out: 2.925 ± 0.155 χ^2/NDF : 806.8/19
 Left In: 15.377 ± 0.103 χ^2/NDF : 16268.9/22

Left: 15.318 ± 0.072 χ^2/NDF : 35444.7/47
 Right: 3.289 ± 0.111 χ^2/NDF : 1455.1/37
 In: 11.961 ± 0.086 χ^2/NDF : 20690.2/40
 Out: 11.597 ± 0.084 χ^2/NDF : 24460.4/44
 All: 11.774 ± 0.060 χ^2/NDF : 45159.7/85

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -13.812 ± 0.160 χ^2/NDF : 28605.6/34

Left Out: 3.746 ± 0.079 χ^2/NDF : 9247.4/24

Right Out: -13.052 ± 0.154 χ^2/NDF : 33922.0/38

Left In: 3.365 ± 0.081 χ^2/NDF : 8527.0/22

Left: 3.561 ± 0.057 χ^2/NDF : 17785.7/47

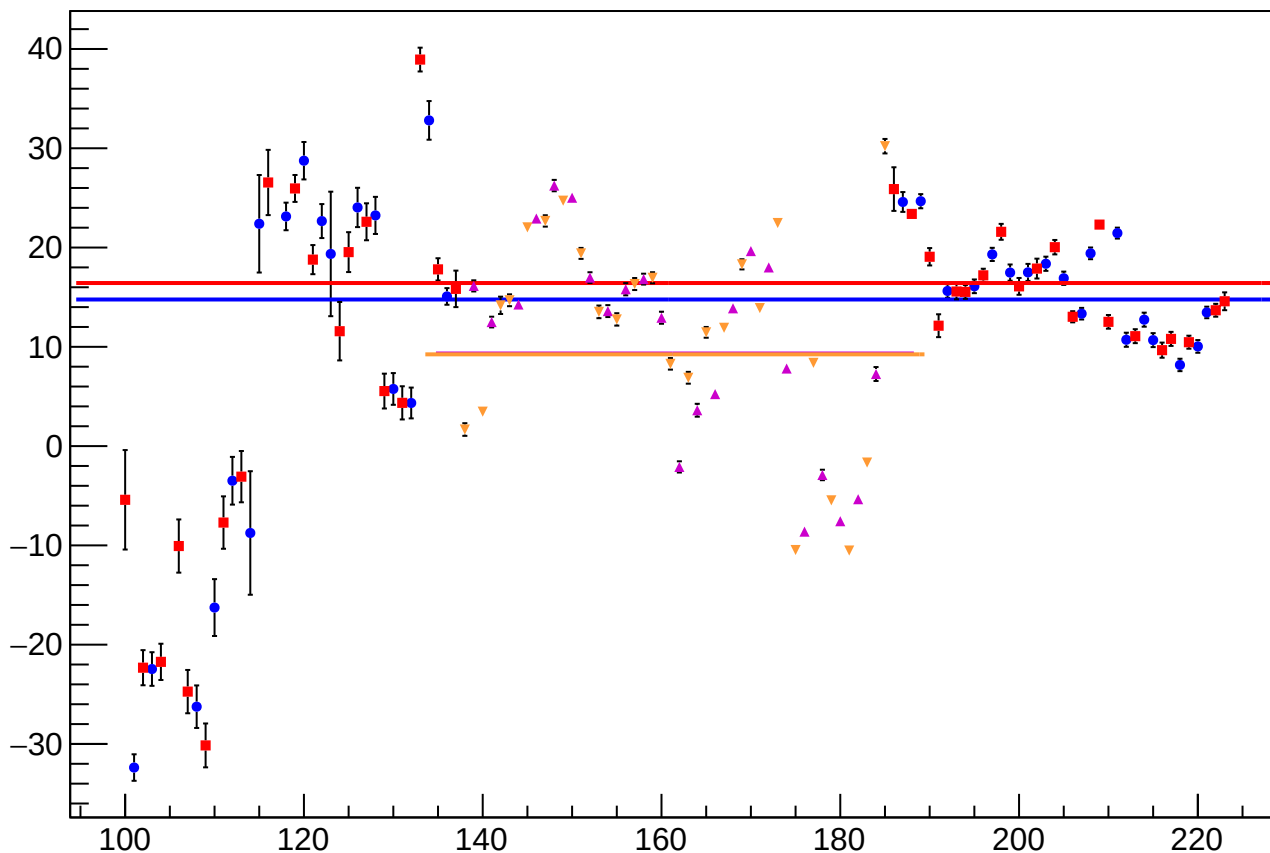
Right: -13.416 ± 0.111 χ^2/NDF : 62539.3/73

In: -0.138 ± 0.072 χ^2/NDF : 46252.2/57

Out: 0.266 ± 0.070 χ^2/NDF : 52595.9/63

All: 0.070 ± 0.050 χ^2/NDF : 98864.2/121

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 14.767 $\pm$ 0.149 χ^2 /NDF: 3466.1/34

Left Out: 9.242 $\pm$ 0.101 χ^2 /NDF:13633.2/24

Right Out: 16.427 $\pm$ 0.140 χ^2 /NDF: 3613.3/38

Left In: 9.328 $\pm$ 0.103 χ^2 /NDF:11968.5/22

Left: 9.284 $\pm$ 0.072 χ^2 /NDF: 25602.0/47

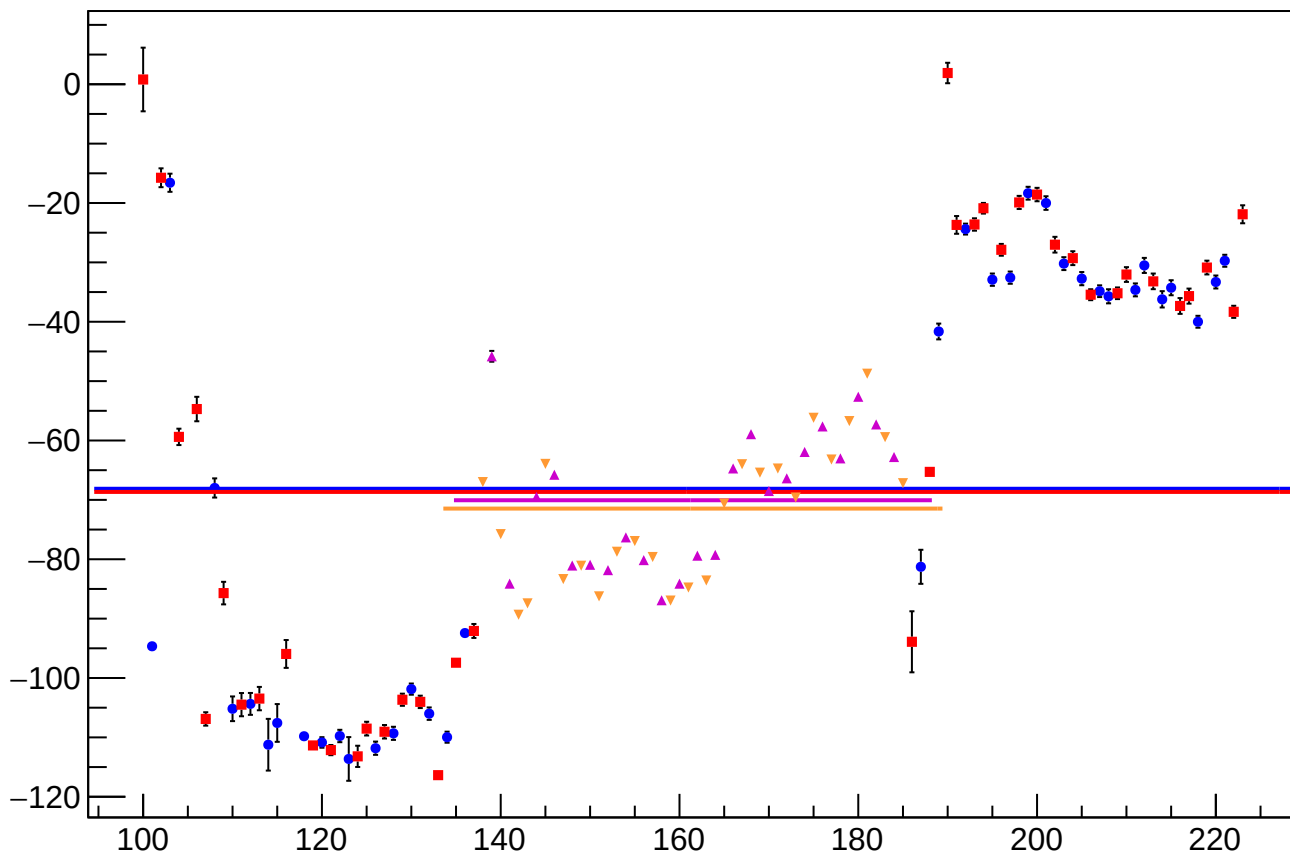
Right: 15.646 $\pm$ 0.102 χ^2 /NDF: 7145.4/73

In: 11.081 $\pm$ 0.084 χ^2 /NDF:16341.4/57

Out: 11.694 $\pm$ 0.082 χ^2 /NDF:18976.4/63

All: 11.397 $\pm$ 0.059 χ^2 /NDF: 35344.9/121

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -68.129+/-0.182 χ^2/NDF : 40367.5/34

Left Out: -71.465+/-0.089 χ^2/NDF :16409.7/24

Right Out: -68.659+/-0.178 χ^2/NDF : 48039.6/38

Left In: -70.061+/-0.092 χ^2/NDF :13058.5/22

Left: -70.782+/-0.064 χ^2/NDF : 29588.5/47

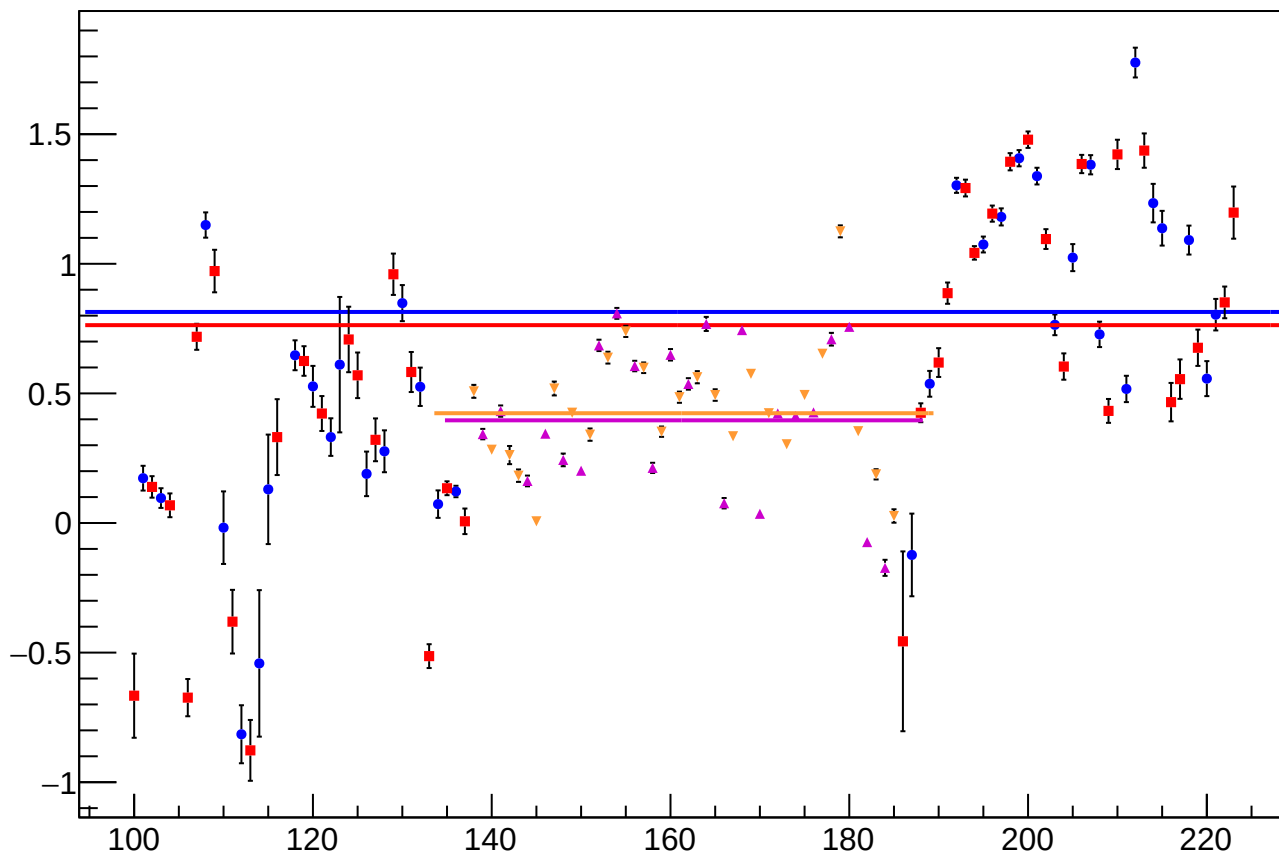
Right: -68.400+/-0.127 χ^2/NDF : 88411.4/73

In: -69.671+/-0.082 χ^2/NDF :53515.6/57

Out: -70.901+/-0.080 χ^2/NDF :64647.8/63

All: -70.302+/-0.057 χ^2/NDF : 118279.0/121

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.814 ± 0.008 χ^2/NDF : 4053.9/34

Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24

Right Out: 0.763 ± 0.008 χ^2/NDF : 5159.0/38

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

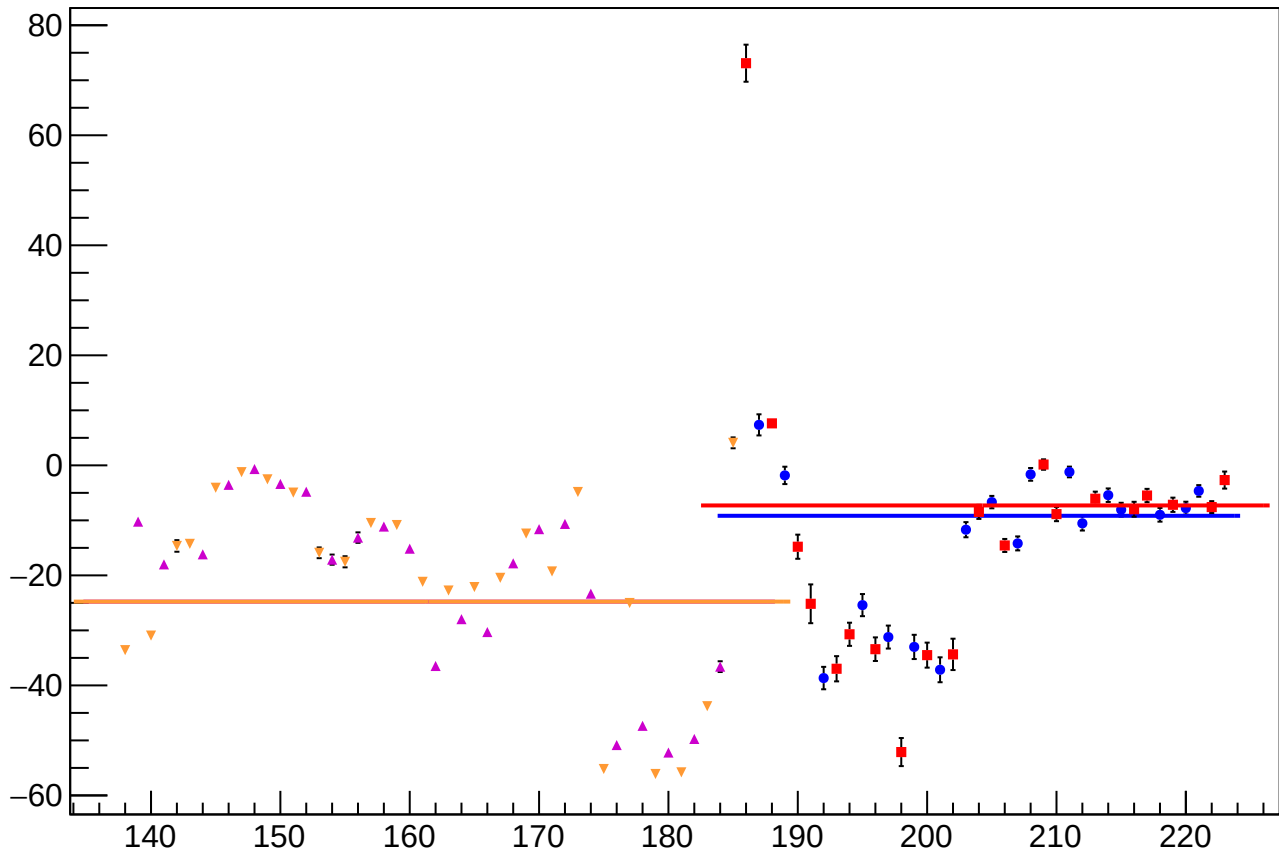
Right: 0.788 ± 0.006 χ^2/NDF : 9233.3/73

In: 0.483 ± 0.004 χ^2/NDF : 10197.2/57

Out: 0.497 ± 0.004 χ^2/NDF : 9525.4/63

All: 0.490 ± 0.003 χ^2/NDF : 19729.7/121

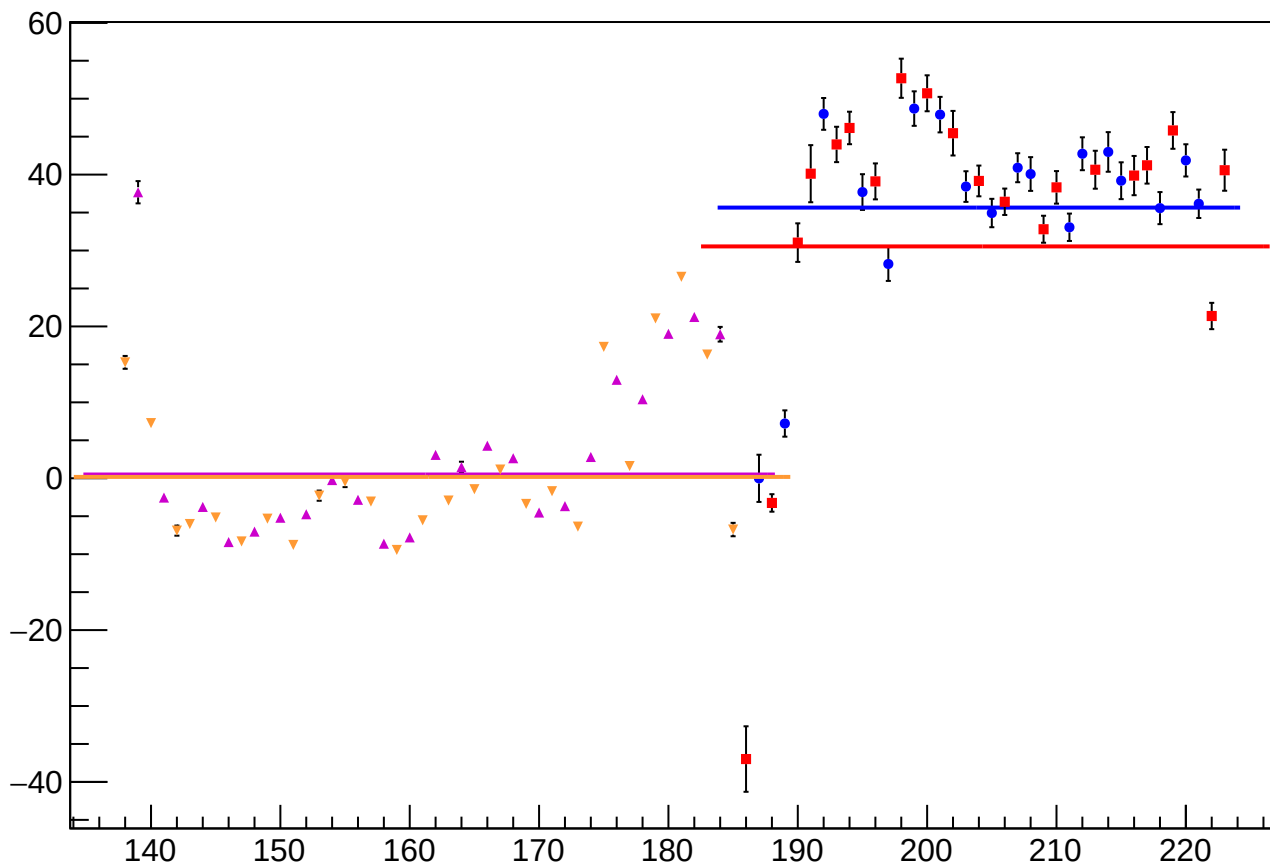
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.170 ± 0.321 $\chi^2/\text{NDF}: 915.6/17$
 Left Out: -24.769 ± 0.139 $\chi^2/\text{NDF}: 18318.8/24$
 Right Out: -7.289 ± 0.320 $\chi^2/\text{NDF}: 2049.9/19$
 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: -8.224 ± 0.227 $\chi^2/\text{NDF}: 2982.7/37$
 In: -22.204 ± 0.130 $\chi^2/\text{NDF}: 17691.7/40$
 Out: -21.978 ± 0.128 $\chi^2/\text{NDF}: 22879.8/44$
 All: -22.088 ± 0.091 $\chi^2/\text{NDF}: 40573.1/85$

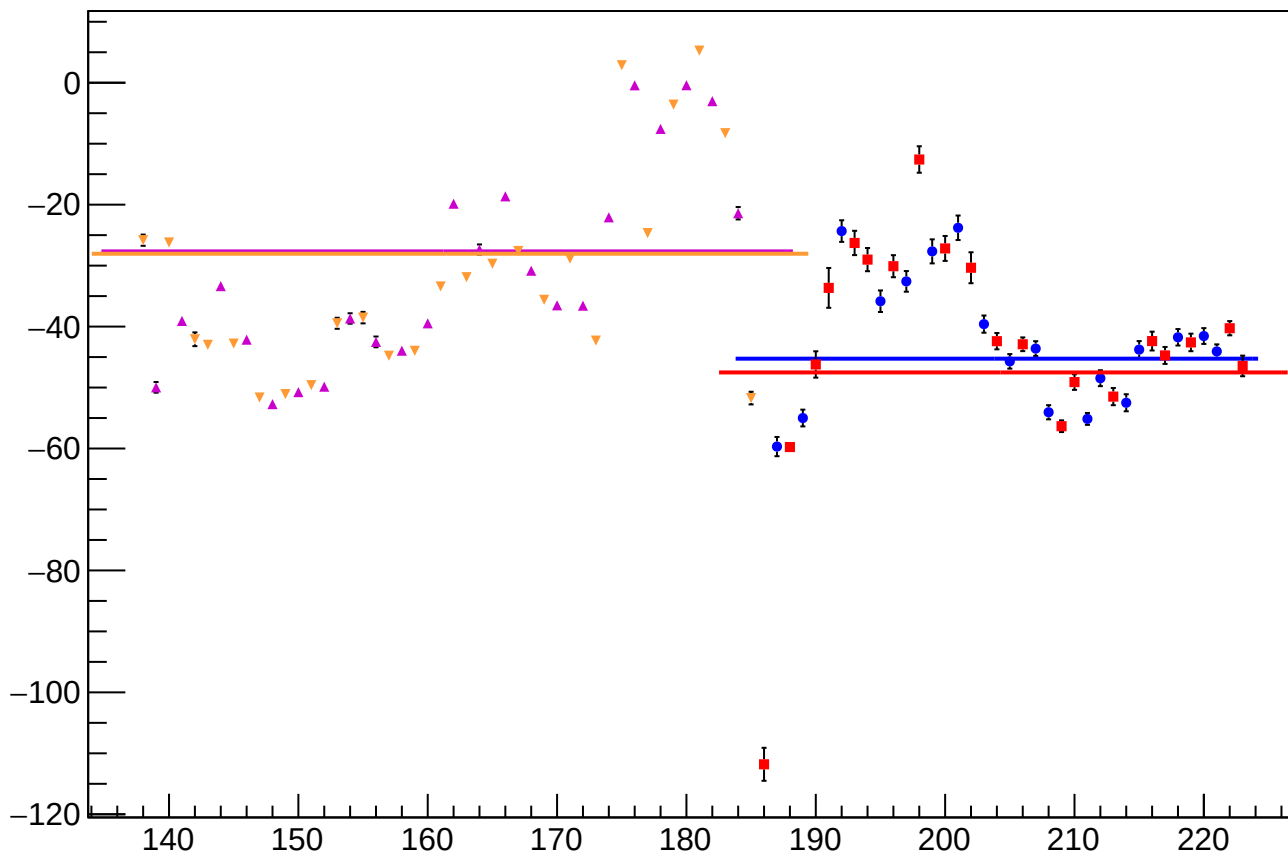
reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.655+/-0.500 χ^2/NDF : 553.0/17
 Left Out: 0.177+/-0.109 χ^2/NDF : 8295.6/24
 Right Out: 30.540+/-0.483 χ^2/NDF : 1557.7/19
 Left In: 0.493+/-0.112 χ^2/NDF : 6555.4/22

Left: 0.330+/-0.078 χ^2/NDF : 14855.0/47
 Right: 33.008+/-0.347 χ^2/NDF : 2164.8/37
 In: 2.176+/-0.109 χ^2/NDF : 11815.7/40
 Out: 1.637+/-0.106 χ^2/NDF : 13617.2/44
 All: 1.898+/-0.076 χ^2/NDF : 25445.4/85

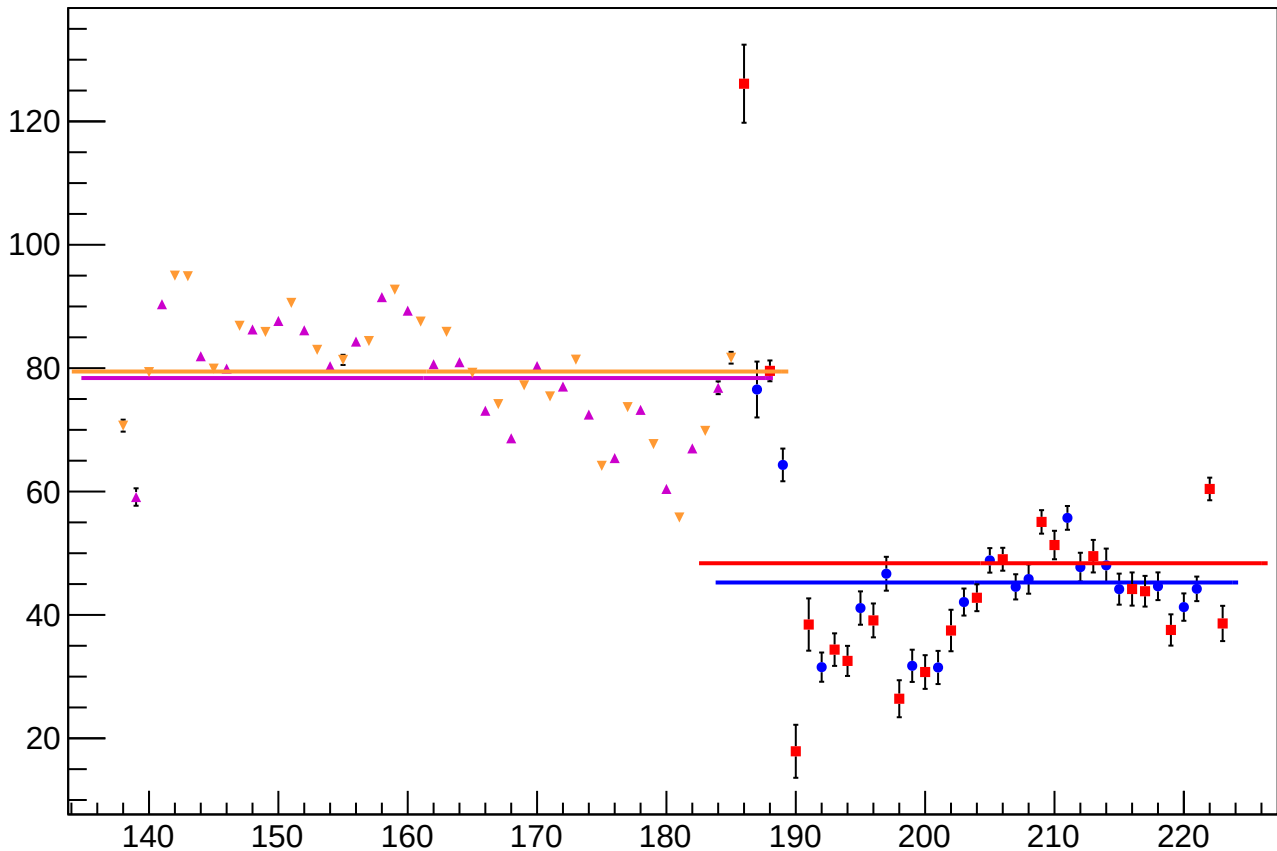
reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.263 ± 0.323 χ^2/NDF : 779.3/17
 Left Out: -28.050 ± 0.140 χ^2/NDF : 17144.5/24
 Right Out: -47.520 ± 0.311 χ^2/NDF : 1835.6/19
 Left In: -27.666 ± 0.142 χ^2/NDF : 15003.2/22

Left: -27.862 ± 0.100 χ^2/NDF : 32151.3/47
 Right: -46.432 ± 0.224 χ^2/NDF : 2640.2/37
 In: -30.536 ± 0.130 χ^2/NDF : 18271.3/40
 Out: -31.321 ± 0.128 χ^2/NDF : 22235.5/44
 All: -30.937 ± 0.091 χ^2/NDF : 40525.3/85

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.257 $\pm$ 0.559 χ^2 /NDF: 229.5/17

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 48.377 $\pm$ 0.555 χ^2 /NDF: 835.8/19

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

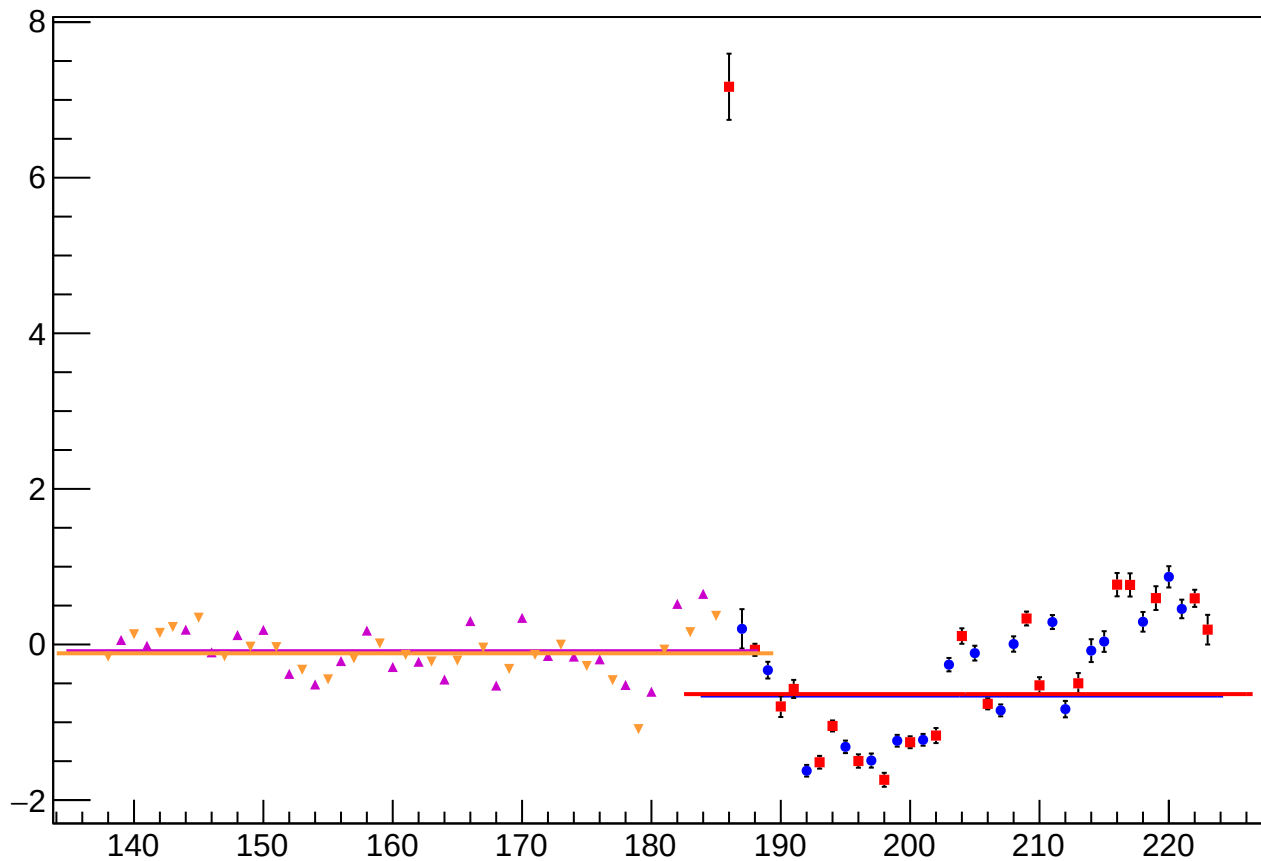
Right: 46.828 $\pm$ 0.394 χ^2 /NDF: 1081.0/37

In: 76.775 $\pm$ 0.124 χ^2 /NDF: 8281.9/40

Out: 77.996 $\pm$ 0.120 χ^2 /NDF: 9903.2/44

All: 77.402 $\pm$ 0.086 χ^2 /NDF: 18235.3/85

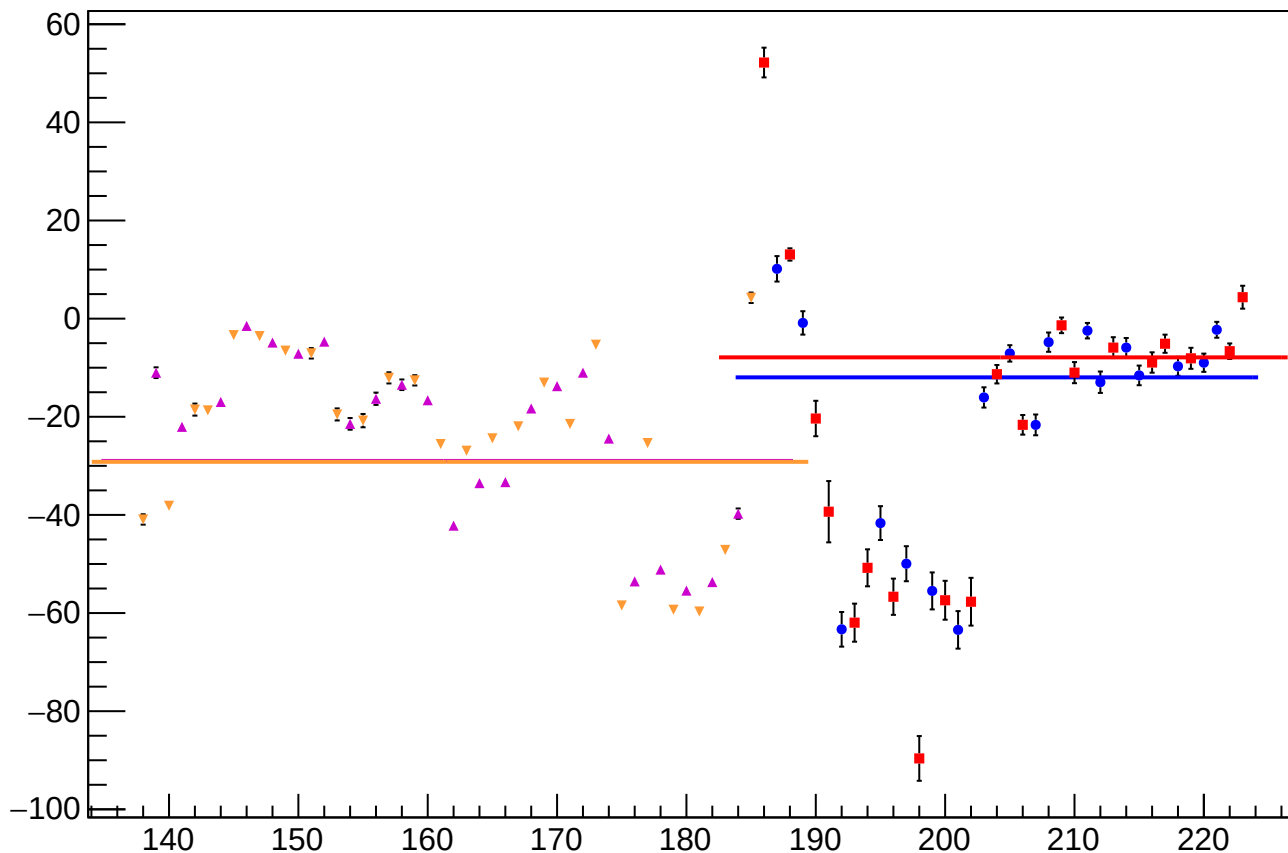
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.656 ± 0.023 χ^2/NDF : 983.0/17
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.638 ± 0.022 χ^2/NDF : 1450.5/19
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.647 ± 0.016 χ^2/NDF : 2433.8/37
 In: -0.121 ± 0.006 χ^2/NDF : 4702.7/40
 Out: -0.145 ± 0.005 χ^2/NDF : 4270.2/44
 All: -0.133 ± 0.004 χ^2/NDF : 8982.4/85

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.968 $\pm$ 0.510 χ^2 /NDF: 939.6/17

Left Out: -29.180 $\pm$ 0.157 χ^2 /NDF:16912.2/24

Right Out: -7.894 $\pm$ 0.506 χ^2 /NDF: 1892.2/19

Left In: -29.003 $\pm$ 0.160 χ^2 /NDF:13416.8/22

Left: -29.093 $\pm$ 0.112 χ^2 /NDF: 30329.6/47

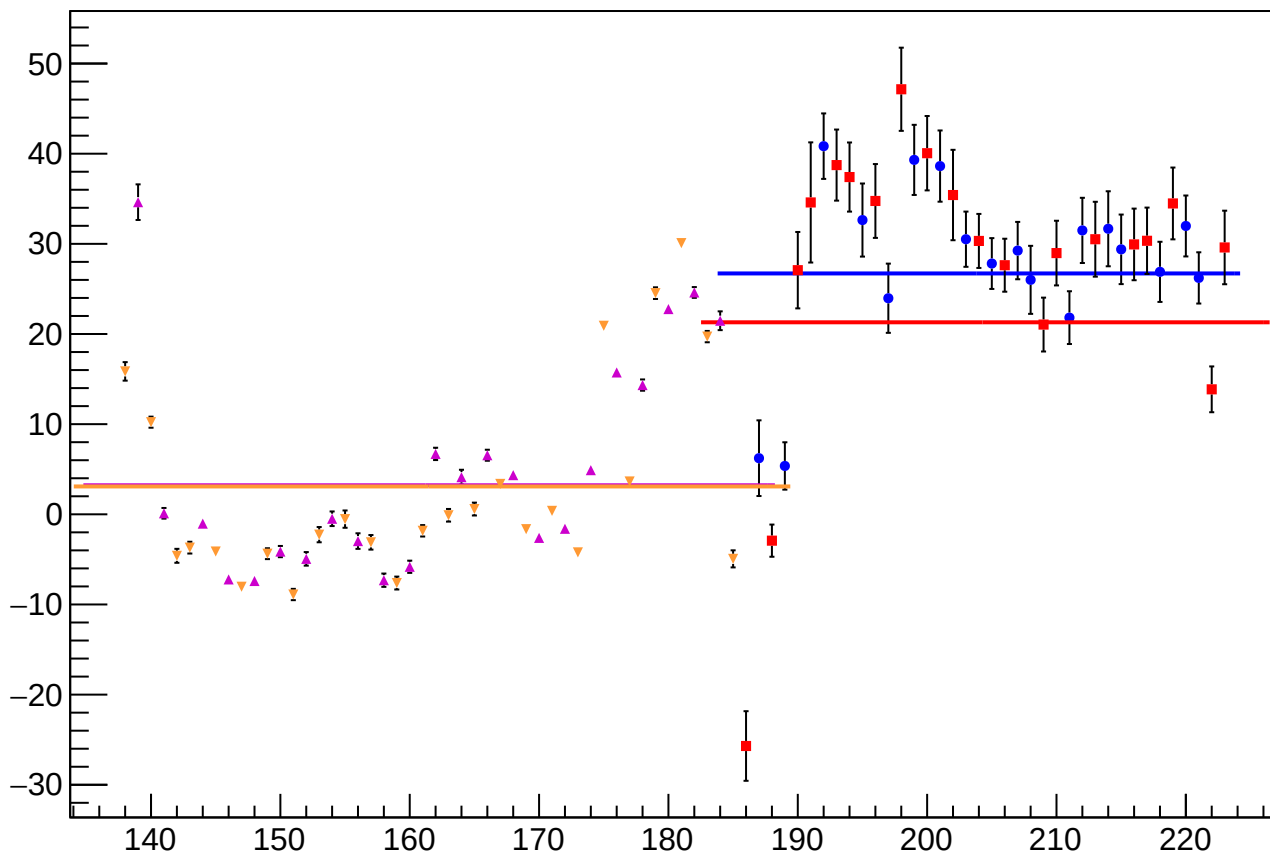
Right: -9.915 $\pm$ 0.359 χ^2 /NDF: 2863.9/37

In: -27.481 $\pm$ 0.152 χ^2 /NDF:15371.2/40

Out: -27.317 $\pm$ 0.150 χ^2 /NDF:20417.7/44

All: -27.398 $\pm$ 0.107 χ^2 /NDF: 35789.5/85

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 26.718 $\pm$ 0.801 χ^2 /NDF: 138.5/17

Left Out: 3.091 $\pm$ 0.124 χ^2 /NDF:8084.1/24

Right Out: 21.298 $\pm$ 0.770 χ^2 /NDF: 503.8/19

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

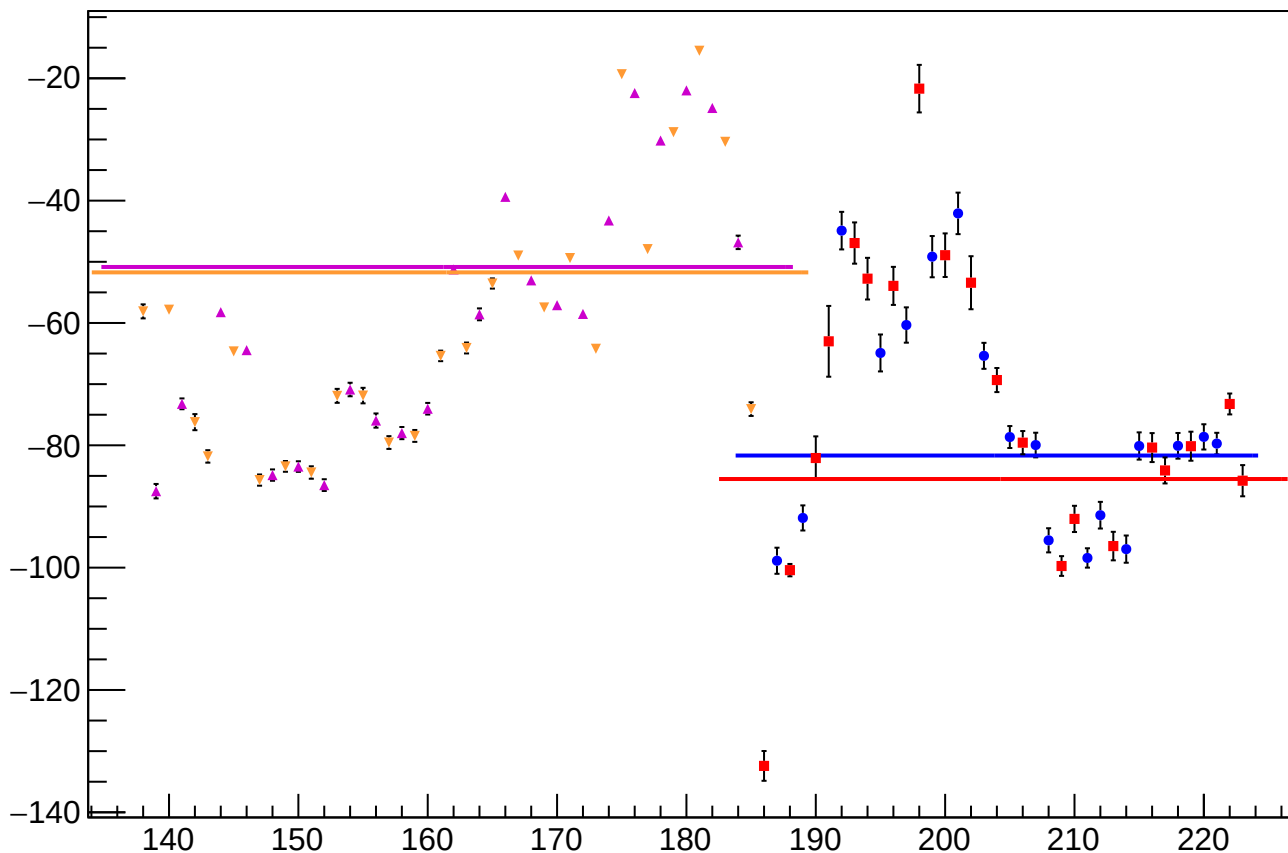
Right: 23.900 $\pm$ 0.555 χ^2 /NDF: 666.1/37

In: 3.796 $\pm$ 0.125 χ^2 /NDF:7214.9/40

Out: 3.554 $\pm$ 0.123 χ^2 /NDF:9132.9/44

All: 3.673 $\pm$ 0.088 χ^2 /NDF: 16349.8/85

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.671 ± 0.513 χ^2/NDF : 842.9/17

Left Out: -51.729 ± 0.158 χ^2/NDF : 19538.0/24

Right Out: -85.511 ± 0.492 χ^2/NDF : 1608.6/19

Left In: -50.844 ± 0.160 χ^2/NDF : 17272.0/22

Left: -51.293 ± 0.112 χ^2/NDF : 36825.5/47

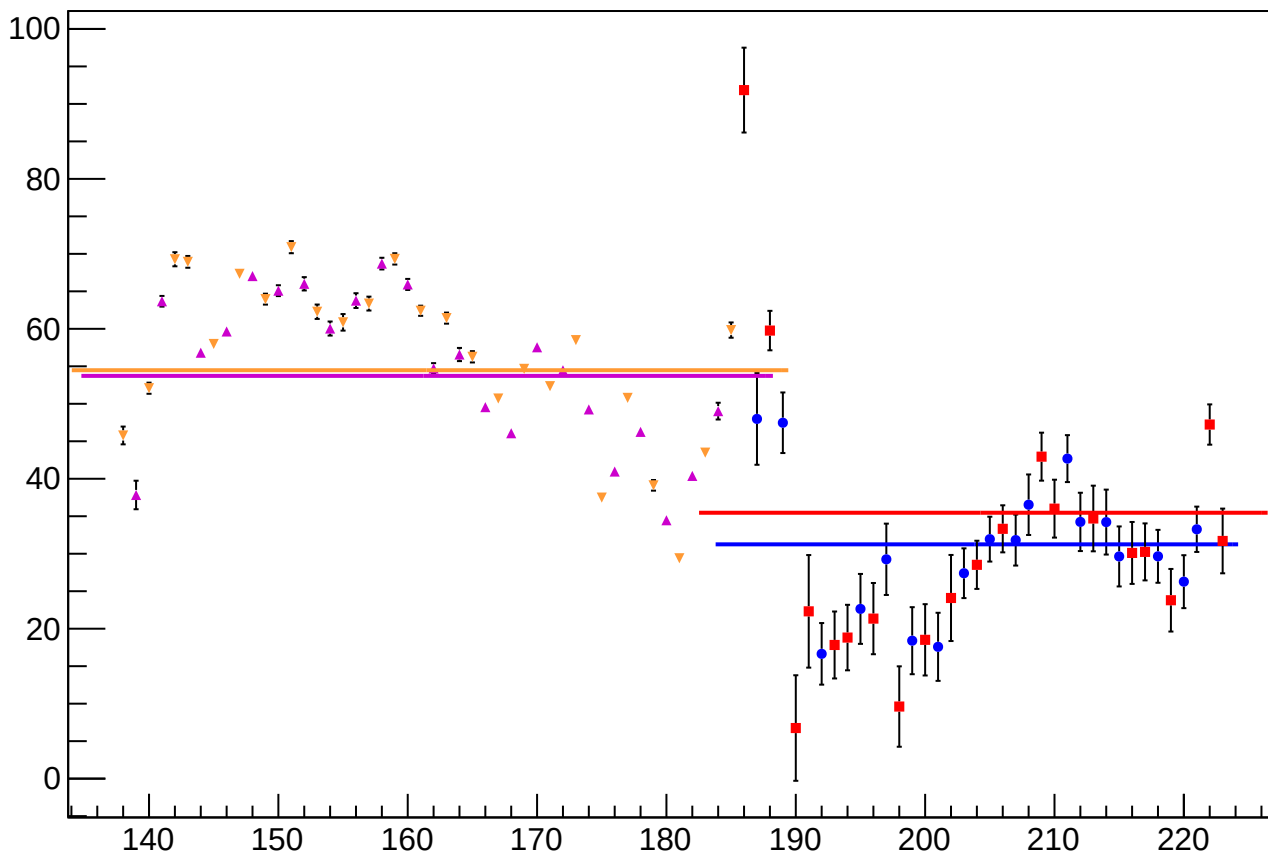
Right: -83.671 ± 0.355 χ^2/NDF : 2480.7/37

In: -53.579 ± 0.153 χ^2/NDF : 21403.8/40

Out: -54.880 ± 0.150 χ^2/NDF : 25416.4/44

All: -54.240 ± 0.107 χ^2/NDF : 46857.0/85

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.252+/-0.898 χ^2/NDF : 77.5/17

Left Out: 54.476+/-0.140 χ^2/NDF : 6266.9/24

Right Out: 35.467+/-0.890 χ^2/NDF : 325.0/19

Left In: 53.724+/-0.143 χ^2/NDF : 4585.7/22

Left: 54.107+/-0.100 χ^2/NDF : 10866.7/47

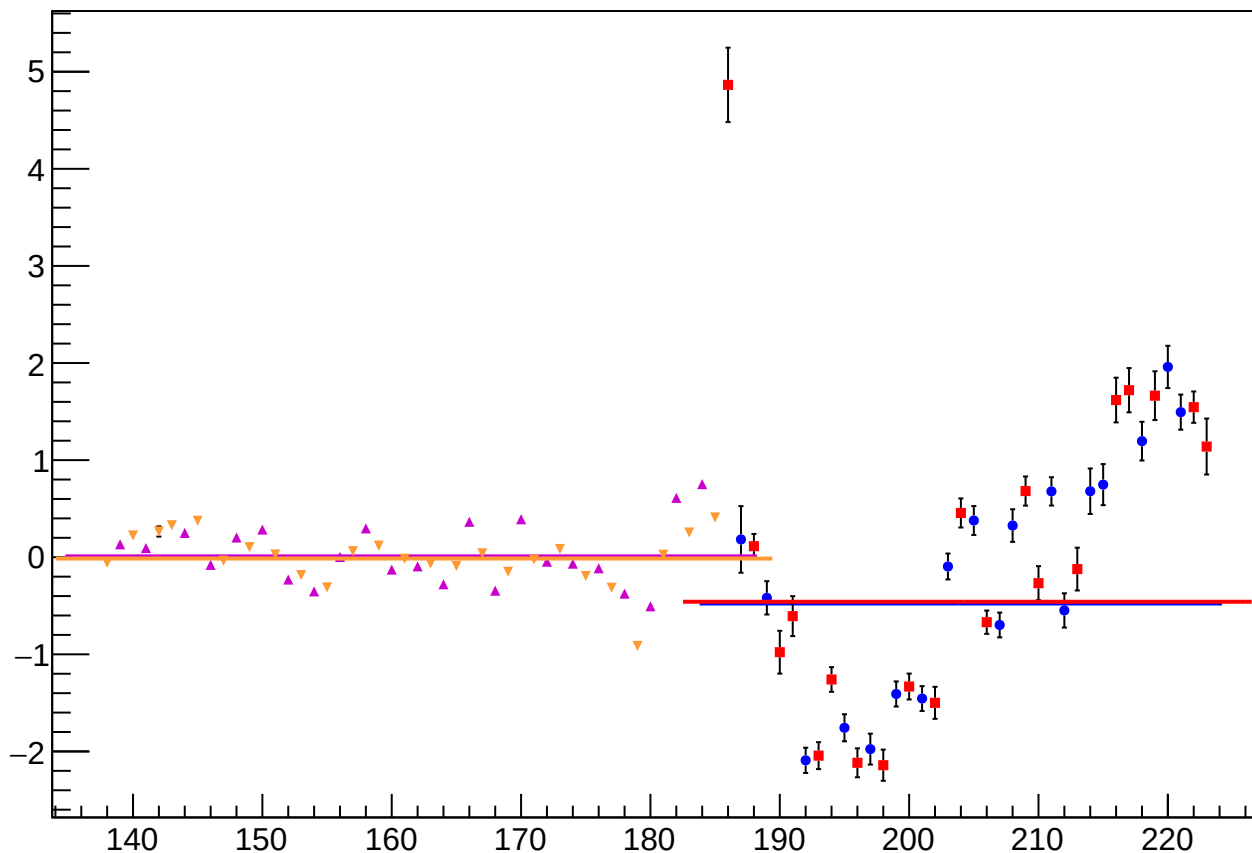
Right: 33.378+/-0.632 χ^2/NDF : 413.6/37

In: 53.167+/-0.141 χ^2/NDF : 5273.9/40

Out: 54.015+/-0.139 χ^2/NDF : 7037.0/44

All: 53.600+/-0.099 χ^2/NDF : 12329.3/85

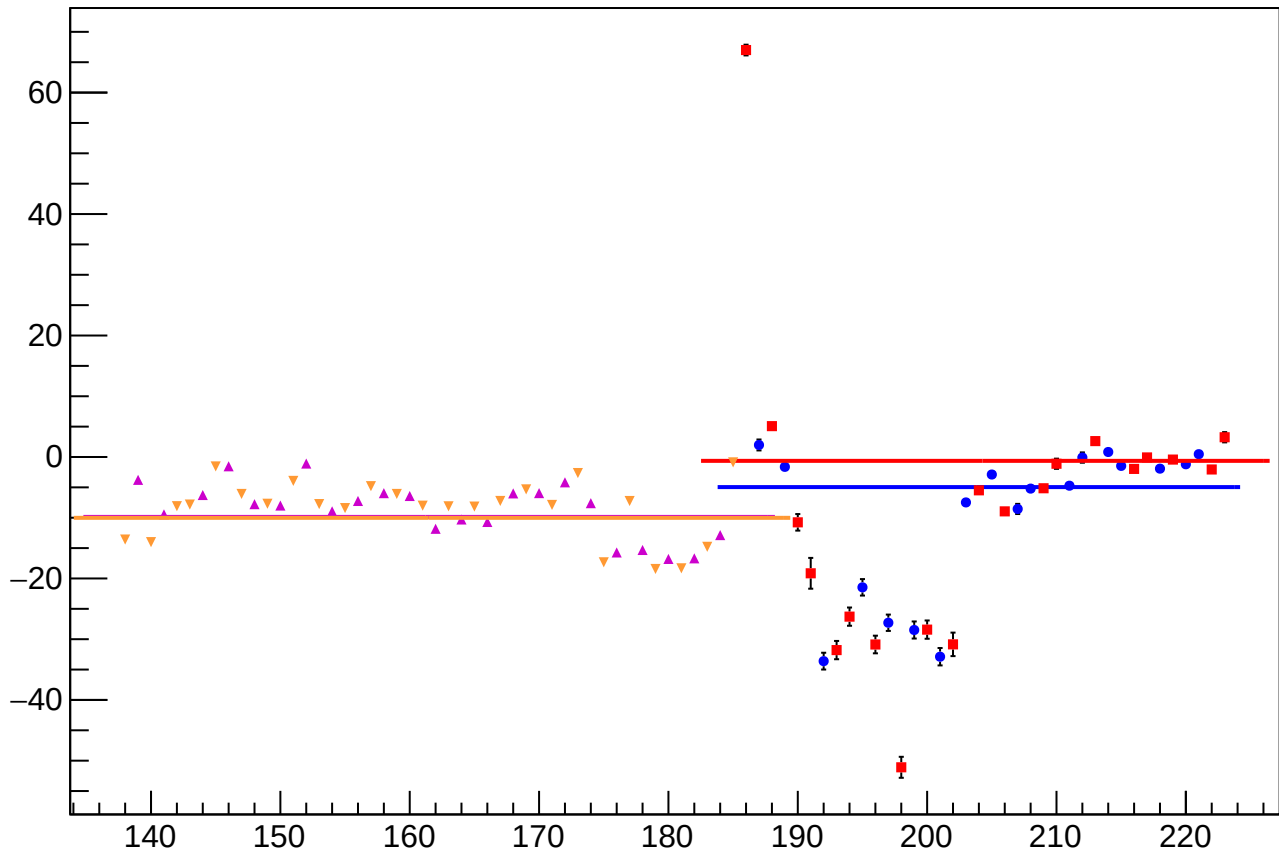
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.476 ± 0.038 χ^2/NDF : 944.1/17
 Left Out: -0.014 ± 0.006 χ^2/NDF : 1654.7/24
 Right Out: -0.459 ± 0.037 χ^2/NDF : 1237.2/19
 Left In: 0.009 ± 0.007 χ^2/NDF : 2220.5/22

Left: -0.003 ± 0.005 χ^2/NDF : 3881.4/47
 Right: -0.467 ± 0.026 χ^2/NDF : 2181.5/37
 In: -0.005 ± 0.006 χ^2/NDF : 3326.6/40
 Out: -0.027 ± 0.006 χ^2/NDF : 3030.5/44
 All: -0.016 ± 0.005 χ^2/NDF : 6362.6/85

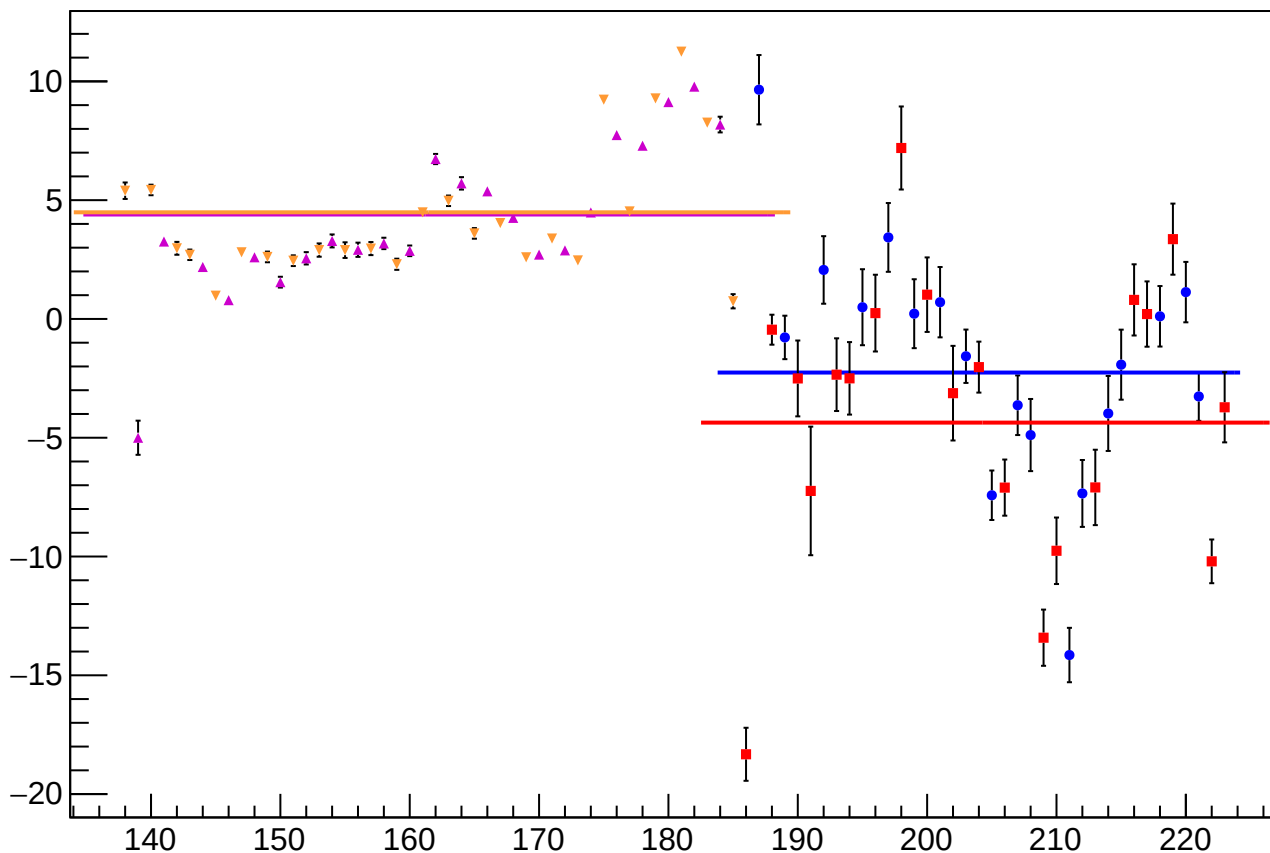
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.956 ± 0.192 $\chi^2/\text{NDF}: 1874.9/17$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.636 ± 0.188 $\chi^2/\text{NDF}: 8964.3/19$
 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: -2.749 ± 0.134 $\chi^2/\text{NDF}: 11097.7/37$
 In: -9.537 ± 0.050 $\chi^2/\text{NDF}: 11830.3/40$
 Out: -9.381 ± 0.049 $\chi^2/\text{NDF}: 23840.7/44$
 All: -9.458 ± 0.035 $\chi^2/\text{NDF}: 35676.0/85$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.256 ± 0.301 χ^2/NDF : 266.5/17

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -4.363 ± 0.285 χ^2/NDF : 441.2/19

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

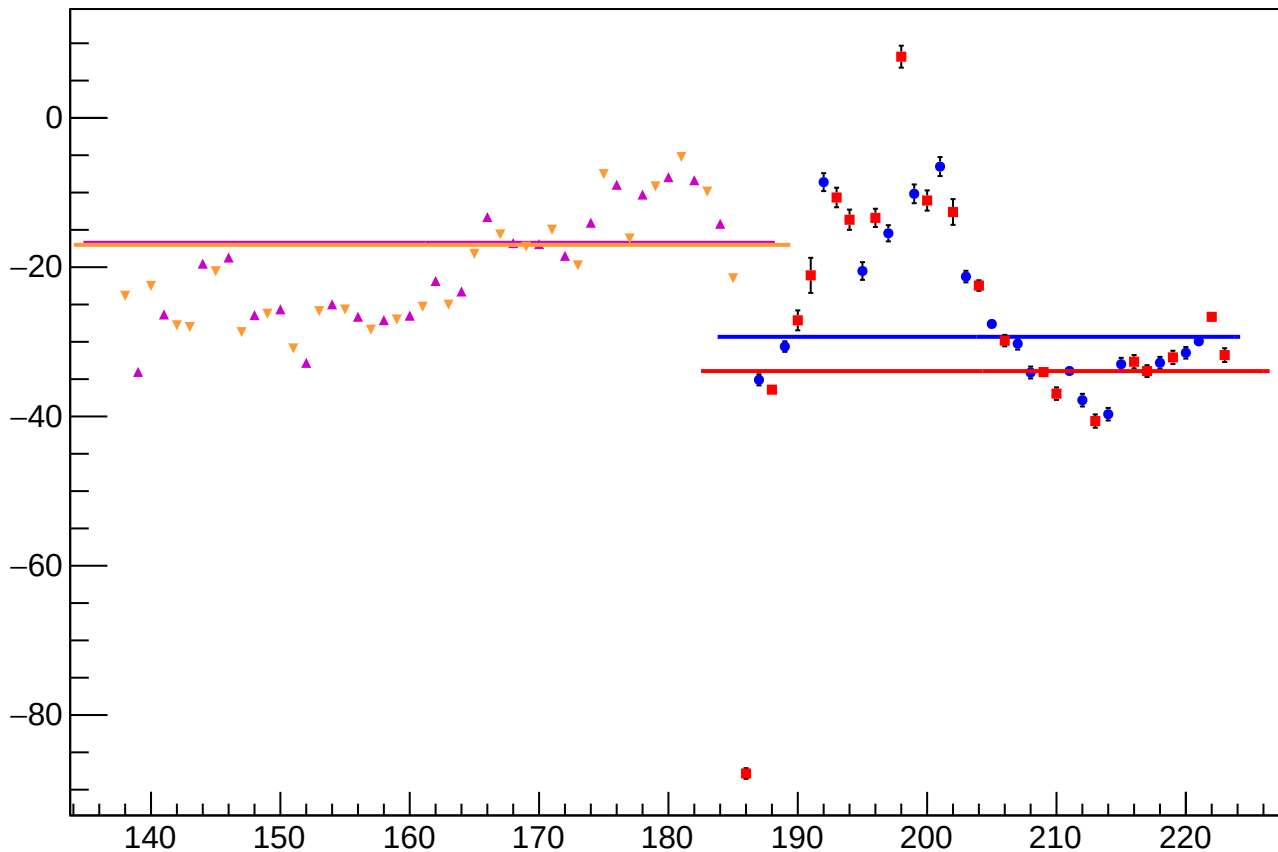
Right: -3.368 ± 0.207 χ^2/NDF : 733.6/37

In: 4.273 ± 0.041 χ^2/NDF : 4977.0/40

Out: 4.312 ± 0.040 χ^2/NDF : 6221.2/44

All: 4.293 ± 0.029 χ^2/NDF : 11198.6/85

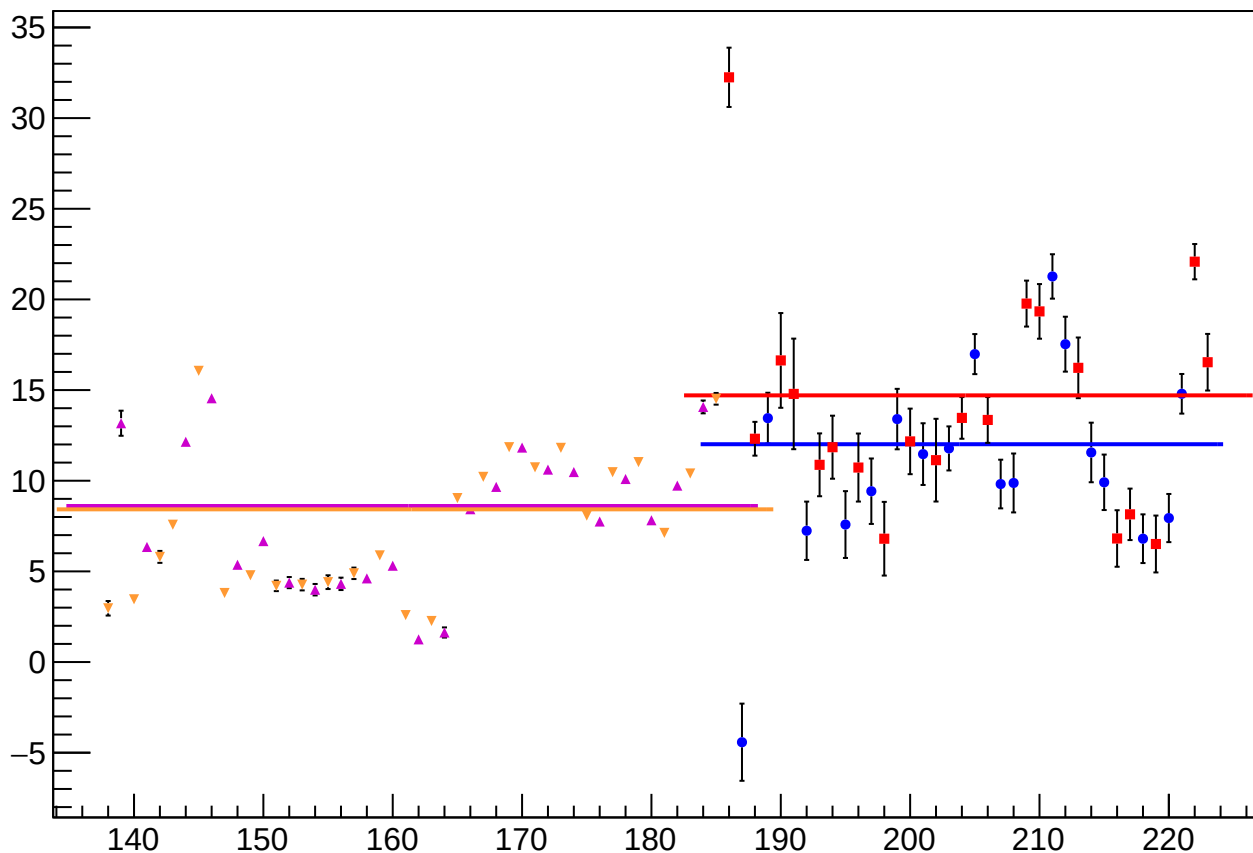
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -29.328 ± 0.193 $\chi^2/\text{NDF}: 1637.9/17$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -33.921 ± 0.182 $\chi^2/\text{NDF}: 8444.7/19$
 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: -31.763 ± 0.132 $\chi^2/\text{NDF}: 10383.3/37$
 In: -17.571 ± 0.050 $\chi^2/\text{NDF}: 24397.1/40$
 Out: -18.248 ± 0.049 $\chi^2/\text{NDF}: 38582.3/44$
 All: -17.914 ± 0.035 $\chi^2/\text{NDF}: 63073.1/85$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.013 ± 0.339 χ^2/NDF : 206.1/17

Left Out: 8.422 ± 0.046 χ^2/NDF : 6470.1/24

Right Out: 14.708 ± 0.332 χ^2/NDF : 315.5/19

Left In: 8.606 ± 0.046 χ^2/NDF : 5504.2/22

Left: 8.513 ± 0.032 χ^2/NDF : 11982.4/47

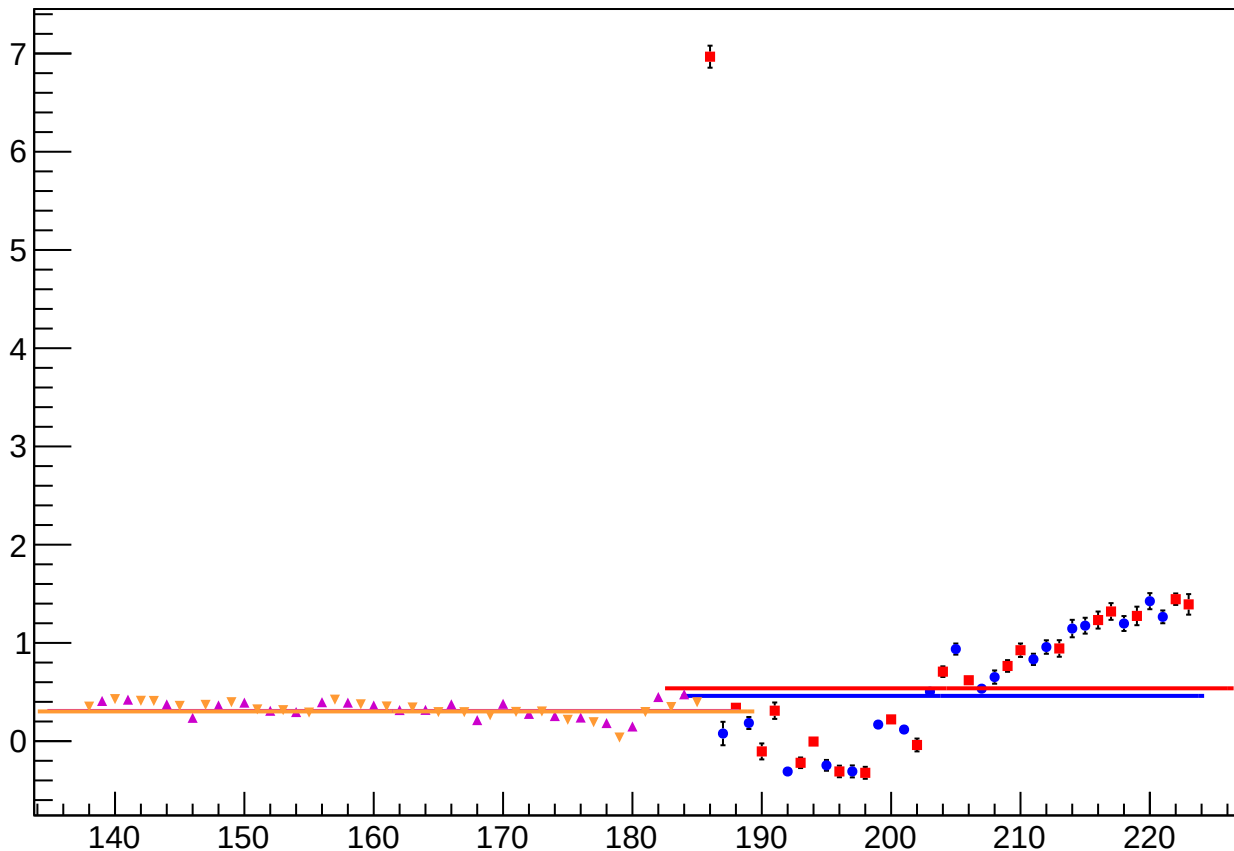
Right: 13.387 ± 0.237 χ^2/NDF : 553.8/37

In: 8.669 ± 0.046 χ^2/NDF : 5809.6/40

Out: 8.538 ± 0.045 χ^2/NDF : 7136.8/44

All: 8.602 ± 0.032 χ^2/NDF : 12950.5/85

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.461+/-0.014 χ^2/NDF : 1369.6/17

Left Out: 0.302+/-0.002 χ^2/NDF :1590.9/24

Right Out: 0.538+/-0.014 χ^2/NDF : 4809.5/19

Left In: 0.307+/-0.002 χ^2/NDF :1699.5/22

Left: 0.305+/-0.001 χ^2/NDF : 3293.0/47

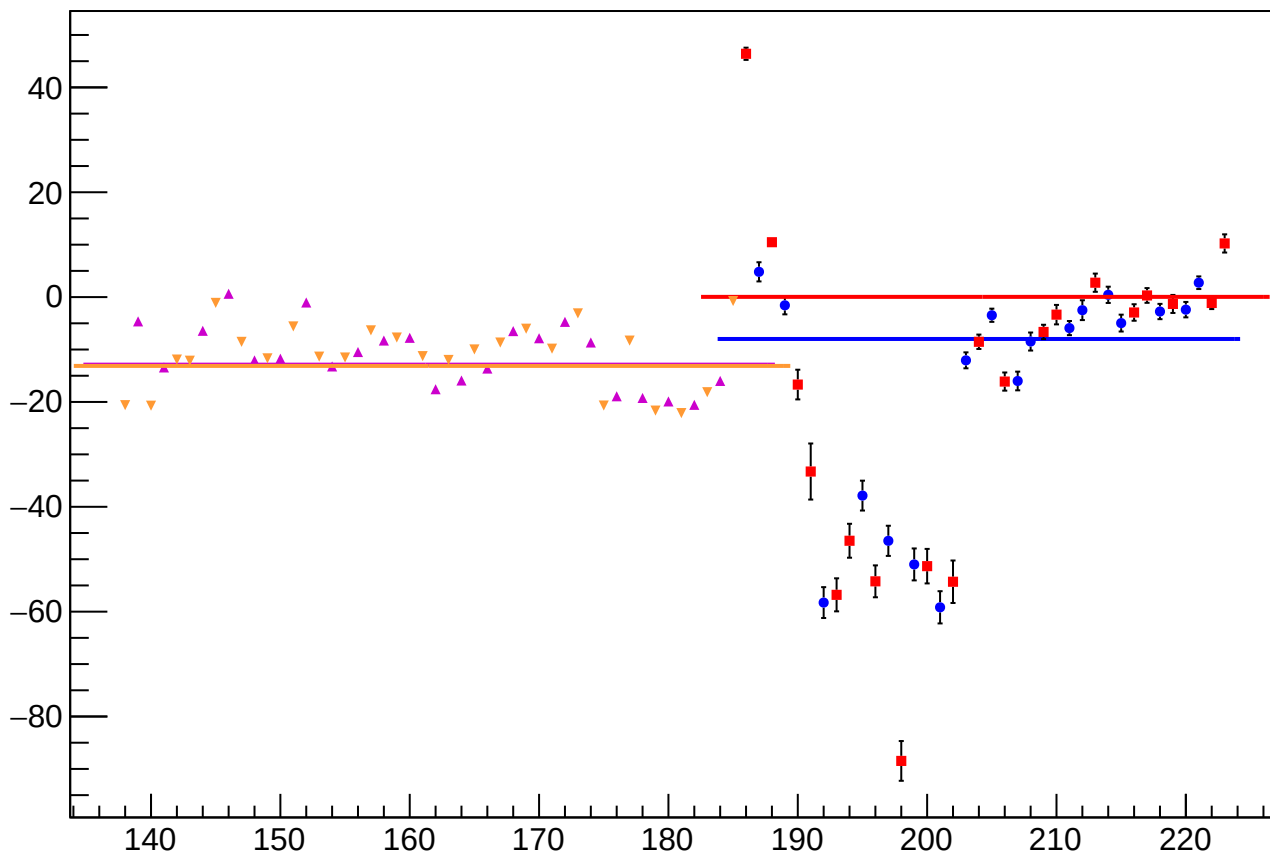
Right: 0.500+/-0.010 χ^2/NDF : 6193.8/37

In: 0.311+/-0.002 χ^2/NDF :3181.4/40

Out: 0.307+/-0.002 χ^2/NDF :6669.6/44

All: 0.309+/-0.001 χ^2/NDF : 9852.1/85

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.987 ± 0.402 $\chi^2/\text{NDF}: 1311.0/17$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: 0.045 ± 0.380 $\chi^2/\text{NDF}: 3792.3/19$
 Left In: -12.885 ± 0.095 $\chi^2/\text{NDF}: 4776.2/22$

Left: -13.007 ± 0.067 $\chi^2/\text{NDF}: 10757.0/47$

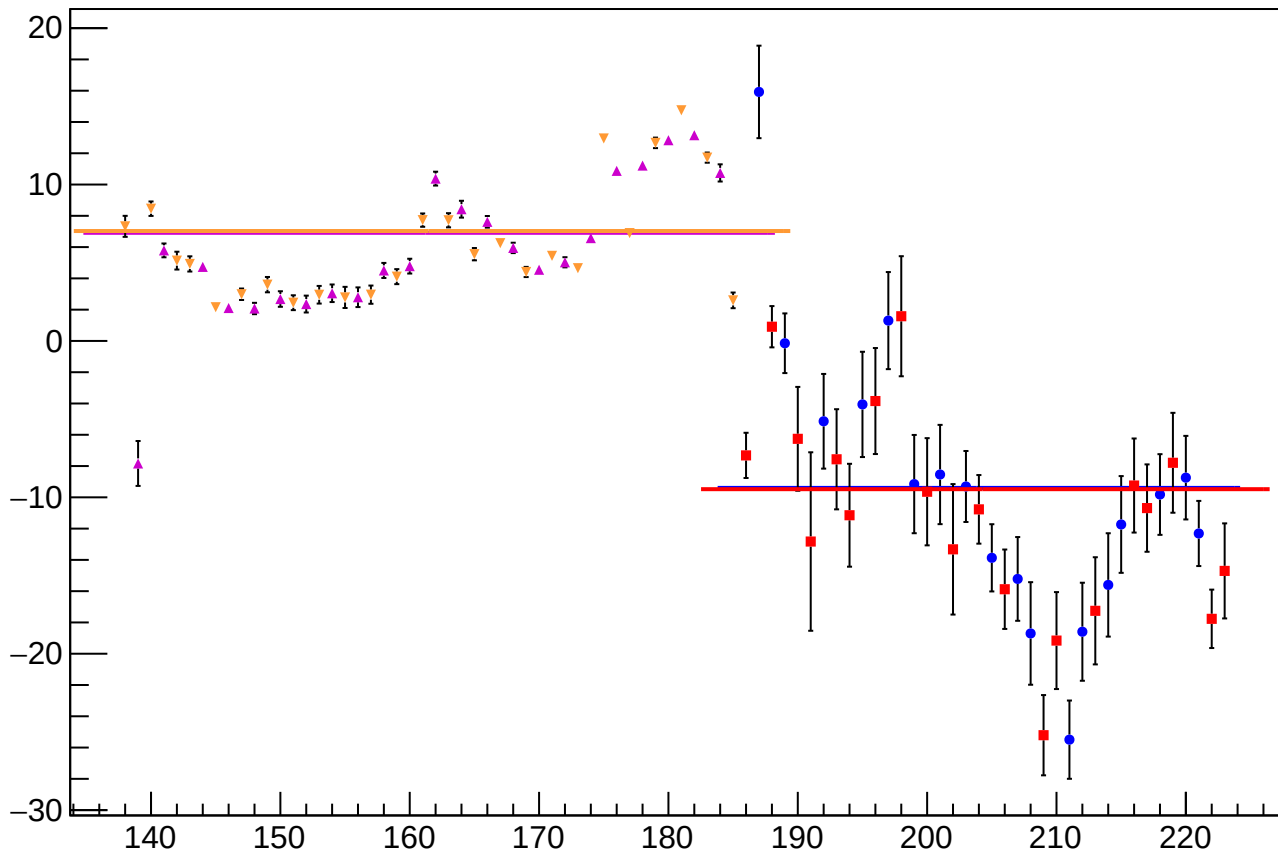
Right: -3.746 ± 0.276 $\chi^2/\text{NDF}: 5313.7/37$

In: -12.626 ± 0.093 $\chi^2/\text{NDF}: 6227.5/40$

Out: -12.372 ± 0.091 $\chi^2/\text{NDF}: 10900.0/44$

All: -12.497 ± 0.065 $\chi^2/\text{NDF}: 17131.3/85$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

Right: -9.442 ± 0.422 χ^2/NDF : 346.9/37

In: 6.670 ± 0.077 χ^2/NDF : 3273.2/40

Out: 6.729 ± 0.076 χ^2/NDF : 3654.3/44

All: 6.700 ± 0.054 χ^2/NDF : 6927.8/85

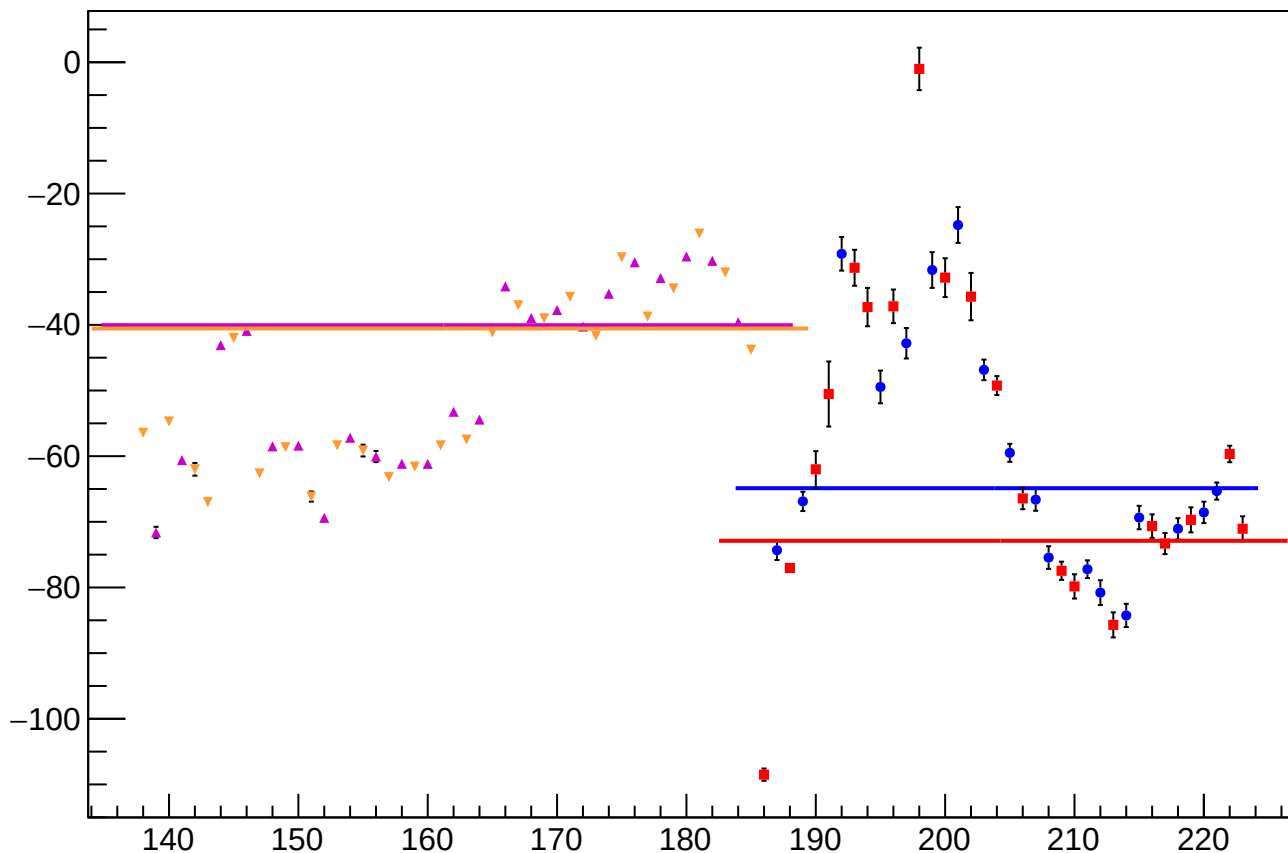
Right In: -9.397 ± 0.631 χ^2/NDF : 186.5/17

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -9.479 ± 0.568 χ^2/NDF : 160.3/19

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.876 ± 0.405 $\chi^2/\text{NDF}: 1216.8/17$
 Left Out: -40.563 ± 0.095 $\chi^2/\text{NDF}: 15637.6/24$
 Right Out: -72.895 ± 0.363 $\chi^2/\text{NDF}: 3342.9/19$
 Left In: -40.053 ± 0.096 $\chi^2/\text{NDF}: 13927.3/22$

Left: -40.310 ± 0.067 $\chi^2/\text{NDF}: 29579.2/47$

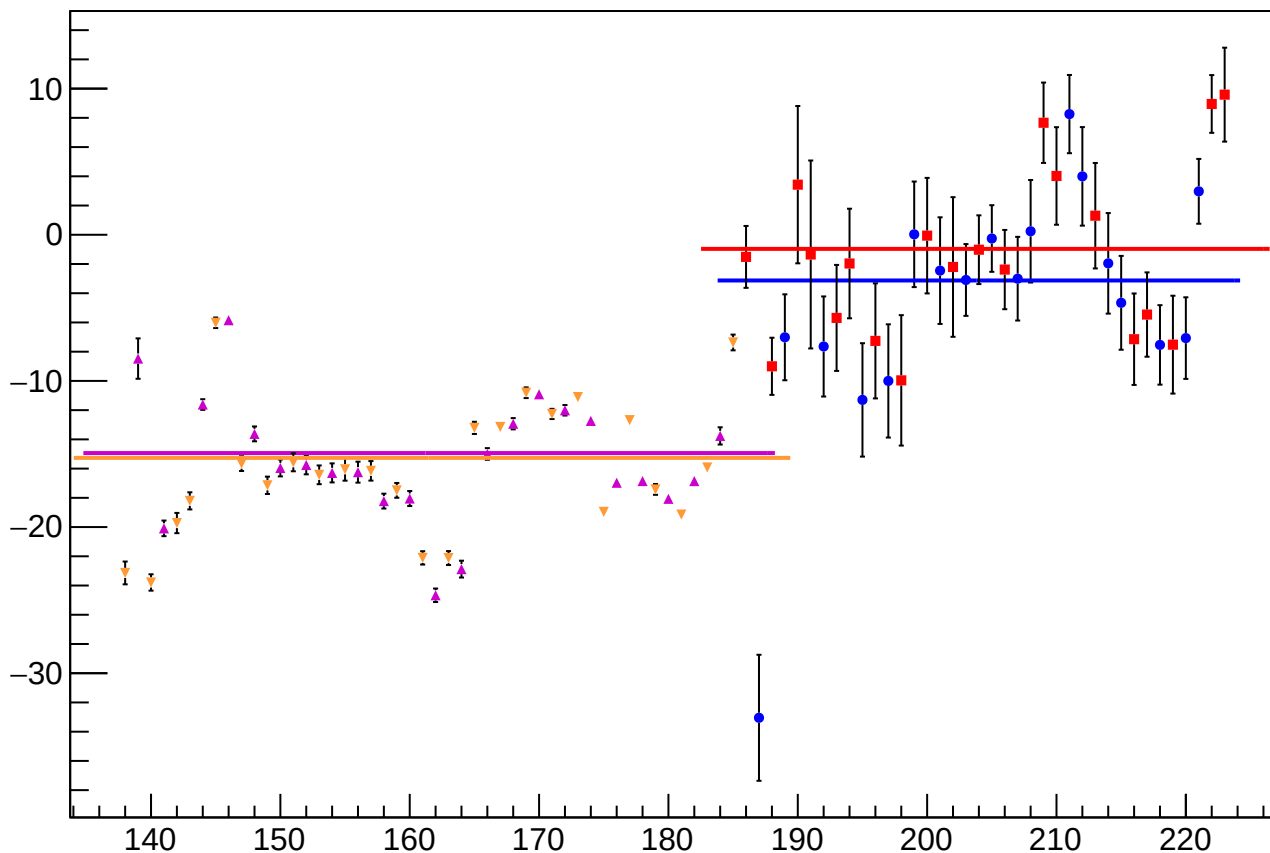
Right: -69.319 ± 0.270 $\chi^2/\text{NDF}: 4777.5/37$

In: -41.368 ± 0.093 $\chi^2/\text{NDF}: 18709.4/40$

Out: -42.625 ± 0.092 $\chi^2/\text{NDF}: 26411.9/44$

All: -42.006 ± 0.065 $\chi^2/\text{NDF}: 45214.0/85$

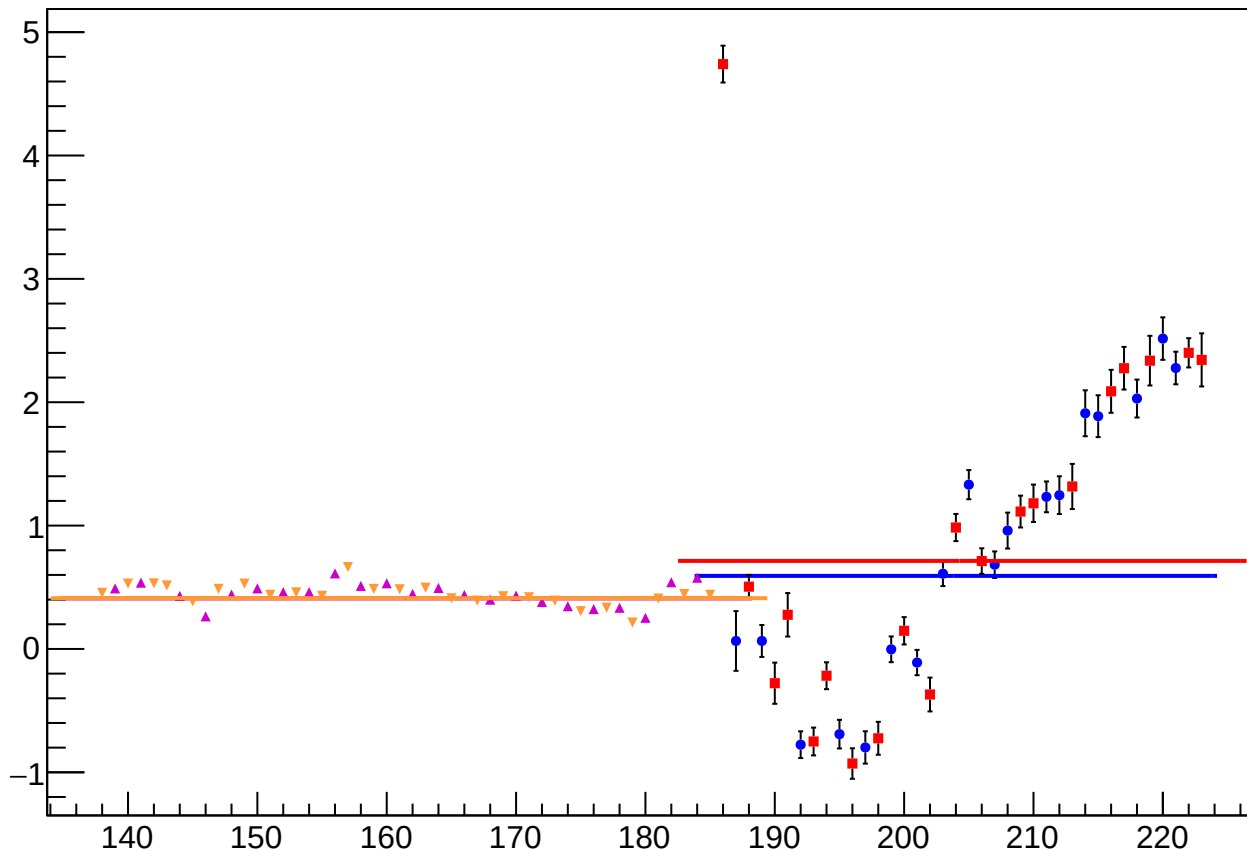
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.128 ± 0.711 χ^2/NDF : 97.6/17
 Left Out: -15.266 ± 0.086 χ^2/NDF : 2595.5/24
 Right Out: -0.965 ± 0.675 χ^2/NDF : 85.0/19
 Left In: -14.936 ± 0.087 χ^2/NDF : 2199.7/22

Left: -15.103 ± 0.061 χ^2/NDF : 4802.4/47
 Right: -1.991 ± 0.490 χ^2/NDF : 187.5/37
 In: -14.763 ± 0.086 χ^2/NDF : 2569.0/40
 Out: -15.038 ± 0.085 χ^2/NDF : 3121.9/44
 All: -14.902 ± 0.061 χ^2/NDF : 5696.1/85

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.592 ± 0.030 χ^2/NDF : 1069.7/17

Left Out: 0.411 ± 0.004 χ^2/NDF : 428.7/24

Right Out: 0.714 ± 0.030 χ^2/NDF : 1900.5/19

Left In: 0.409 ± 0.004 χ^2/NDF : 557.8/22

Left: 0.410 ± 0.003 χ^2/NDF : 986.7/47

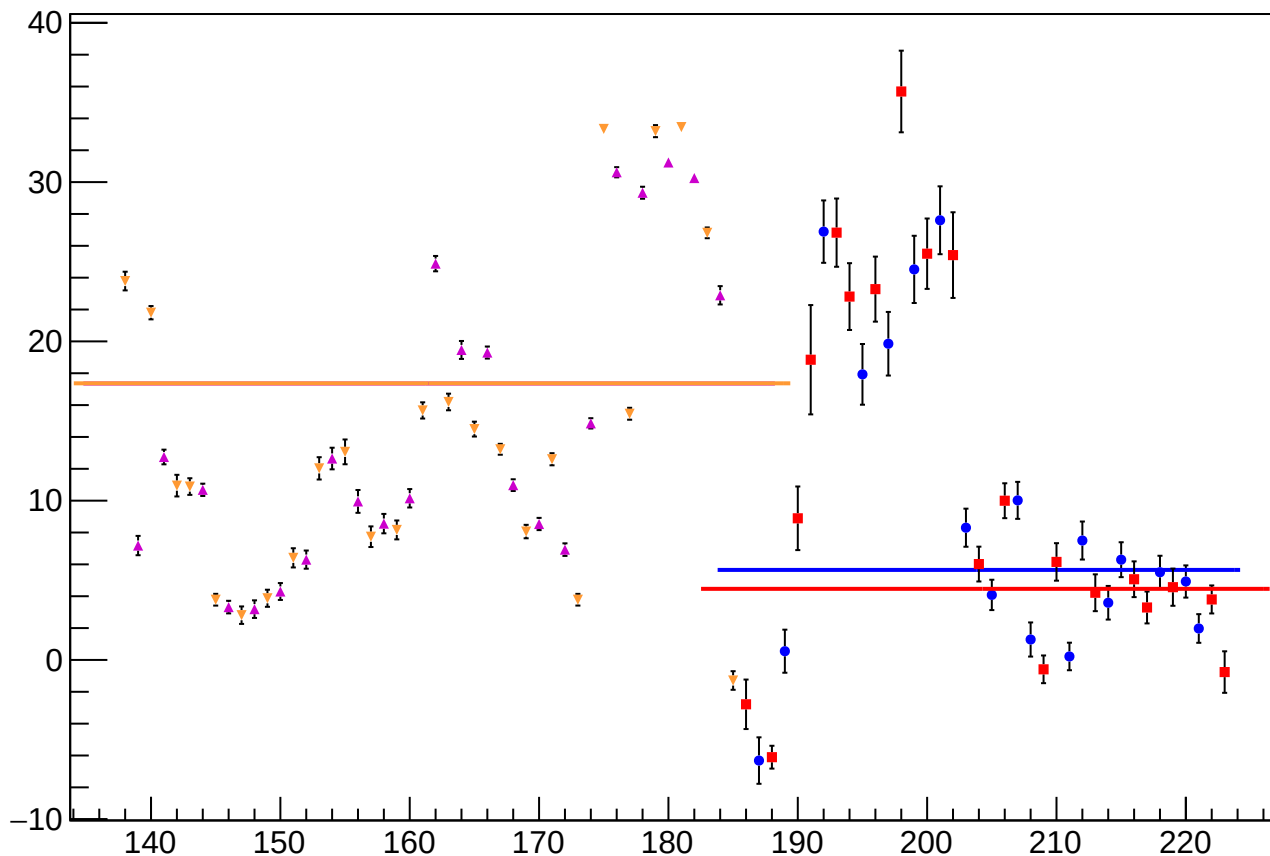
Right: 0.654 ± 0.021 χ^2/NDF : 2978.4/37

In: 0.413 ± 0.004 χ^2/NDF : 1663.3/40

Out: 0.417 ± 0.004 χ^2/NDF : 2431.1/44

All: 0.415 ± 0.003 χ^2/NDF : 4094.9/85

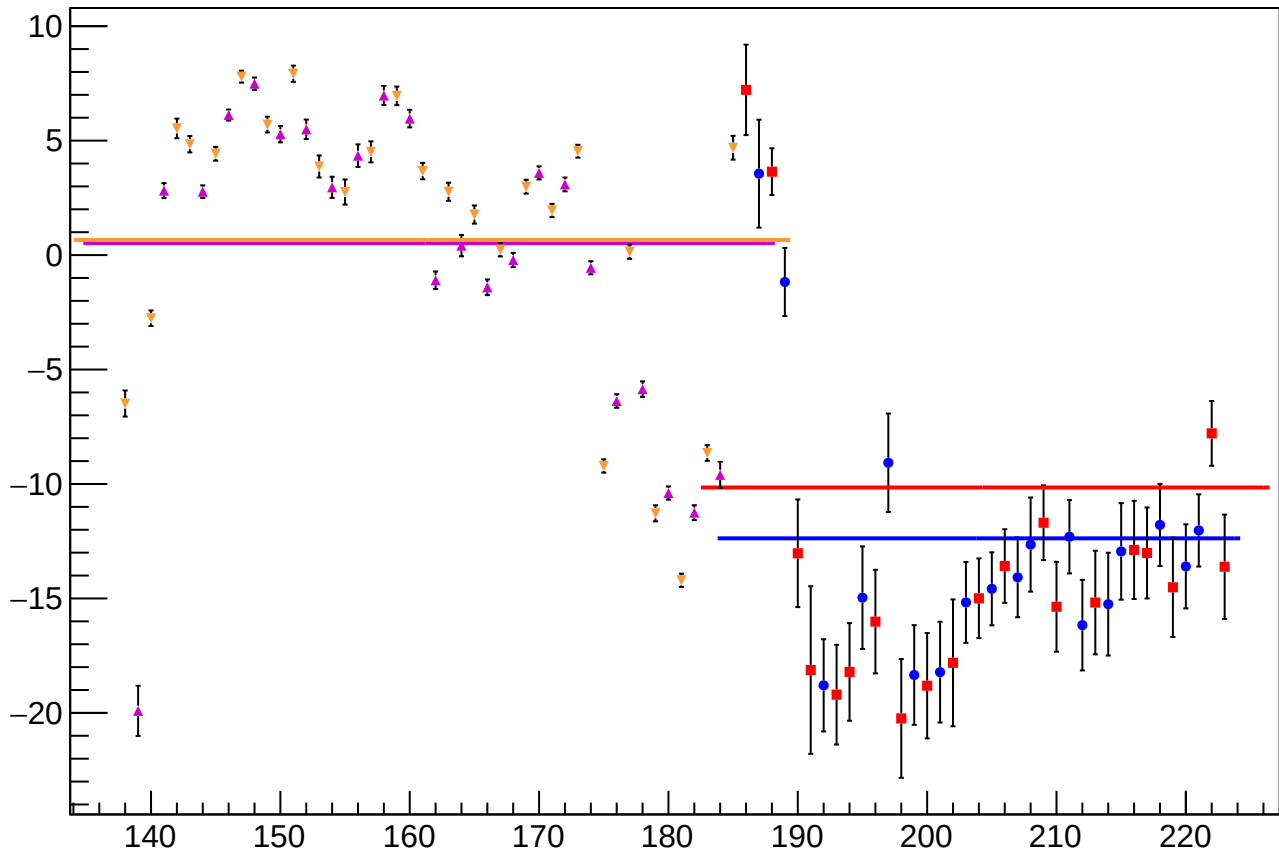
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.652 $\pm$ 0.282 χ^2 /NDF: 579.0/17
 Left Out: 17.367 $\pm$ 0.087 χ^2 /NDF:16337.6/24
 Right Out: 4.464 $\pm$ 0.280 χ^2 /NDF: 913.7/19
 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: 5.054 $\pm$ 0.199 χ^2 /NDF: 1501.6/37
 In: 16.297 $\pm$ 0.085 χ^2 /NDF:14891.6/40
 Out: 16.229 $\pm$ 0.083 χ^2 /NDF:19186.9/44
 All: 16.262 $\pm$ 0.059 χ^2 /NDF: 34078.8/85

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.374 ± 0.444 χ^2/NDF : 142.2/17

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -10.152 ± 0.427 χ^2/NDF : 378.7/19

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

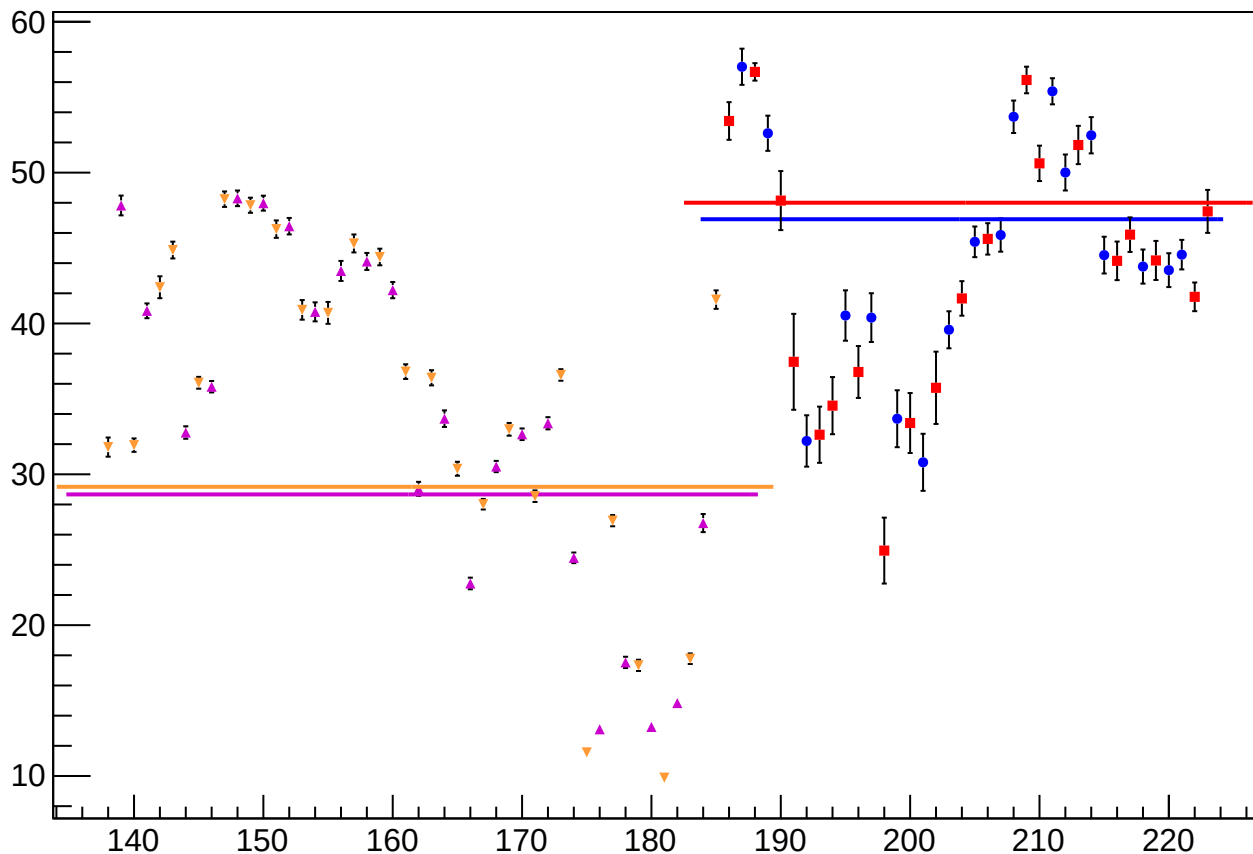
Right: -11.220 ± 0.308 χ^2/NDF : 533.9/37

In: 0.204 ± 0.070 χ^2/NDF : 7694.2/40

Out: 0.383 ± 0.068 χ^2/NDF : 9557.3/44

All: 0.295 ± 0.049 χ^2/NDF : 17254.8/85

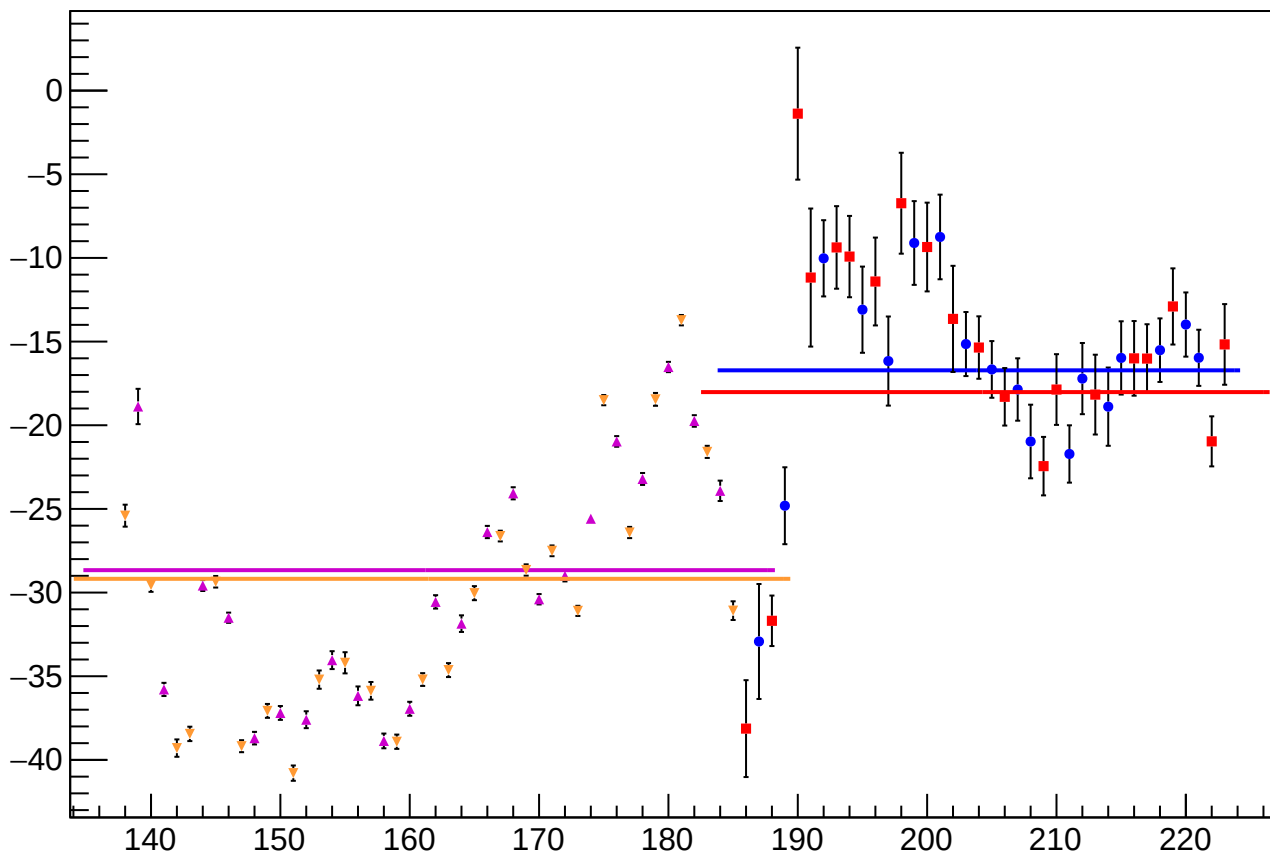
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 46.910 ± 0.284 $\chi^2/\text{NDF}: 551.2/17$
 Left Out: 29.171 ± 0.088 $\chi^2/\text{NDF}: 18974.7/24$
 Right Out: 48.005 ± 0.273 $\chi^2/\text{NDF}: 807.2/19$
 Left In: 28.667 ± 0.089 $\chi^2/\text{NDF}: 16847.2/22$

Left: 28.923 ± 0.063 $\chi^2/\text{NDF}: 35838.1/47$
 Right: 47.479 ± 0.197 $\chi^2/\text{NDF}: 1366.1/37$
 In: 30.305 ± 0.085 $\chi^2/\text{NDF}: 21159.5/40$
 Out: 30.936 ± 0.084 $\chi^2/\text{NDF}: 24096.5/44$
 All: 30.626 ± 0.060 $\chi^2/\text{NDF}: 45284.0/85$

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.718 ± 0.497 $\chi^2/\text{NDF}: 81.5/17$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -18.019 ± 0.493 $\chi^2/\text{NDF}: 227.8/19$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$

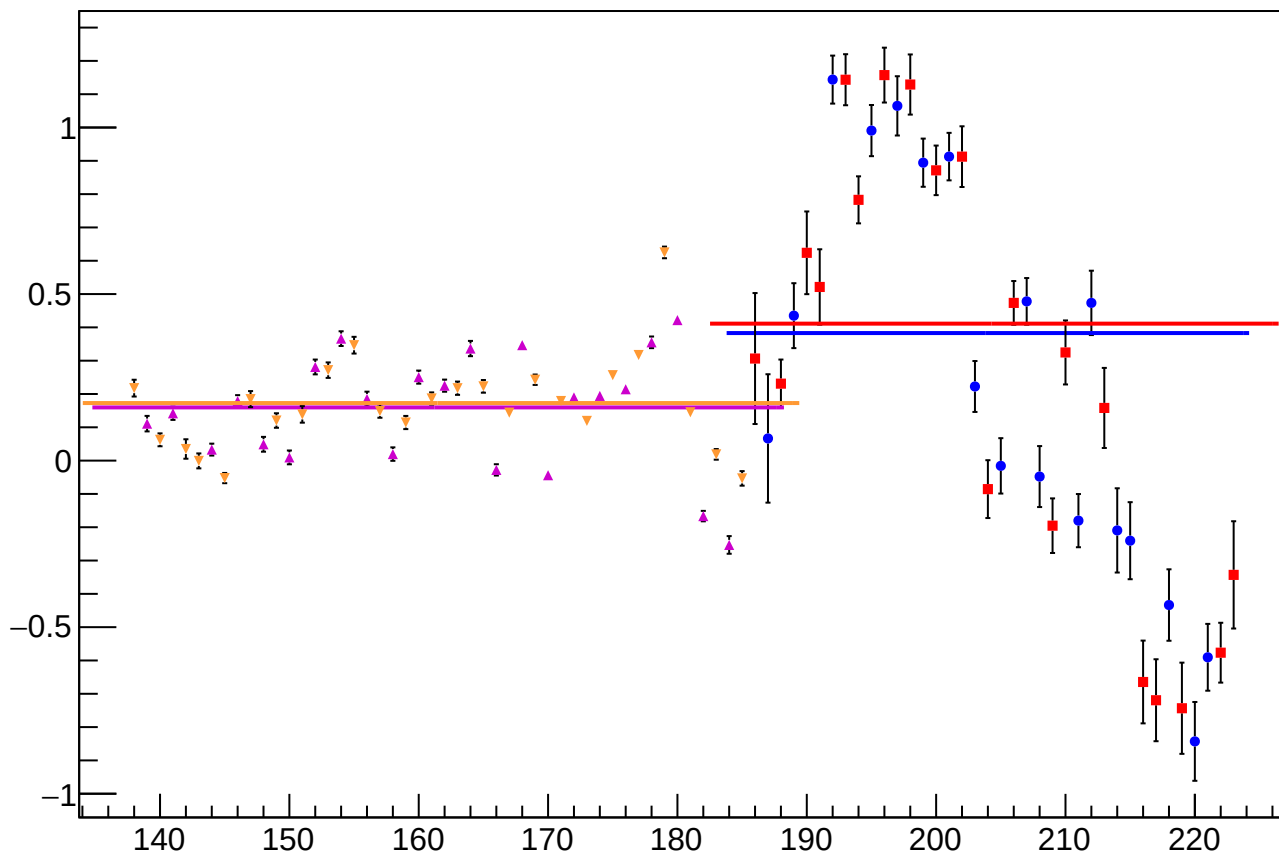
Right: -17.374 ± 0.350 $\chi^2/\text{NDF}: 312.7/37$

In: -28.360 ± 0.079 $\chi^2/\text{NDF}: 7314.4/40$

Out: -28.904 ± 0.077 $\chi^2/\text{NDF}: 9809.1/44$

All: -28.638 ± 0.055 $\chi^2/\text{NDF}: 17147.8/85$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.383 ± 0.021 χ^2/NDF : 753.6/17

Left Out: 0.173 ± 0.004 χ^2/NDF : 1478.5/24

Right Out: 0.411 ± 0.021 χ^2/NDF : 810.3/19

Left In: 0.160 ± 0.004 χ^2/NDF : 2057.9/22

Left: 0.166 ± 0.003 χ^2/NDF : 3542.9/47

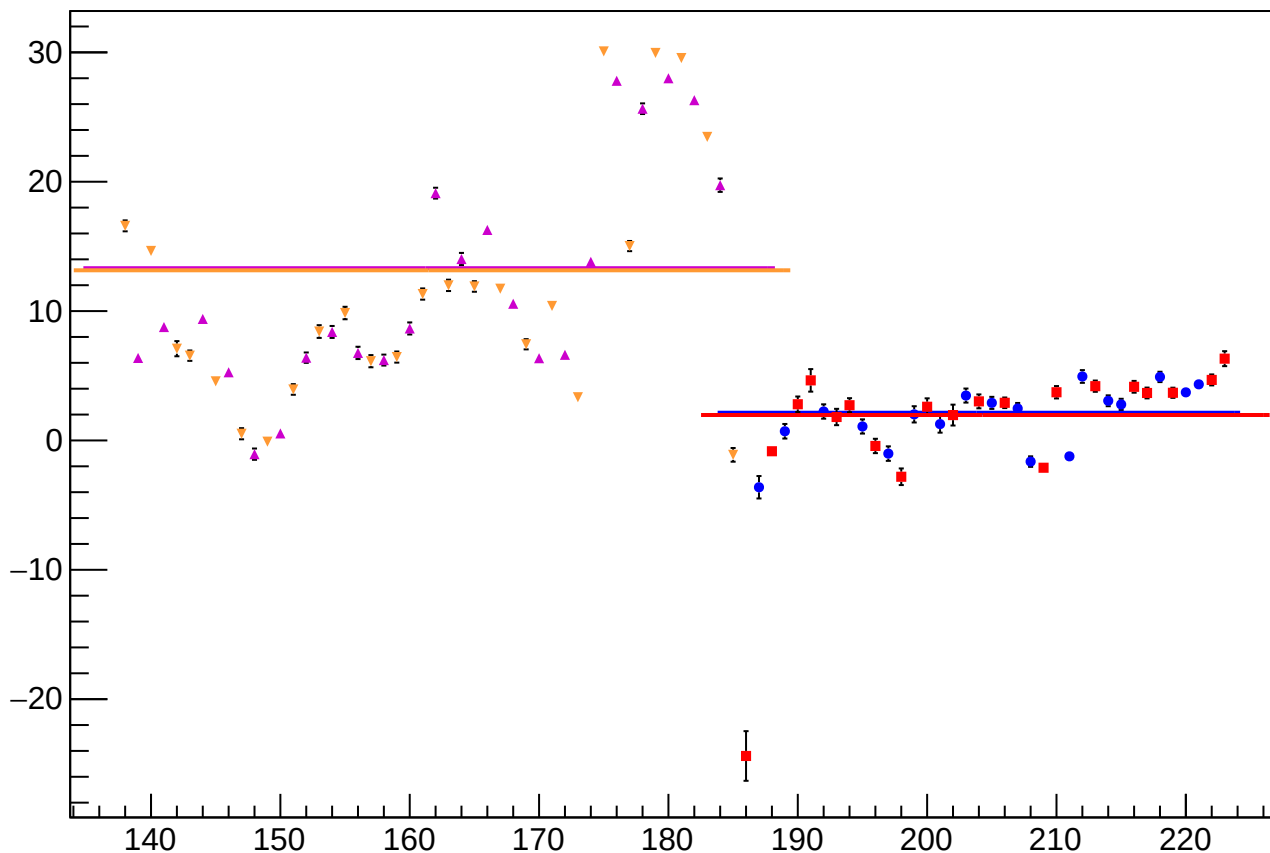
Right: 0.397 ± 0.015 χ^2/NDF : 1564.8/37

In: 0.166 ± 0.004 χ^2/NDF : 2923.0/40

Out: 0.180 ± 0.004 χ^2/NDF : 2417.8/44

All: 0.173 ± 0.003 χ^2/NDF : 5347.9/85

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.142 $\pm$ 0.111 χ^2 /NDF: 400.0/17

Left Out: 13.153 $\pm$ 0.075 χ^2 /NDF:17079.7/24

Right Out: 1.967 $\pm$ 0.108 χ^2 /NDF: 726.1/19

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

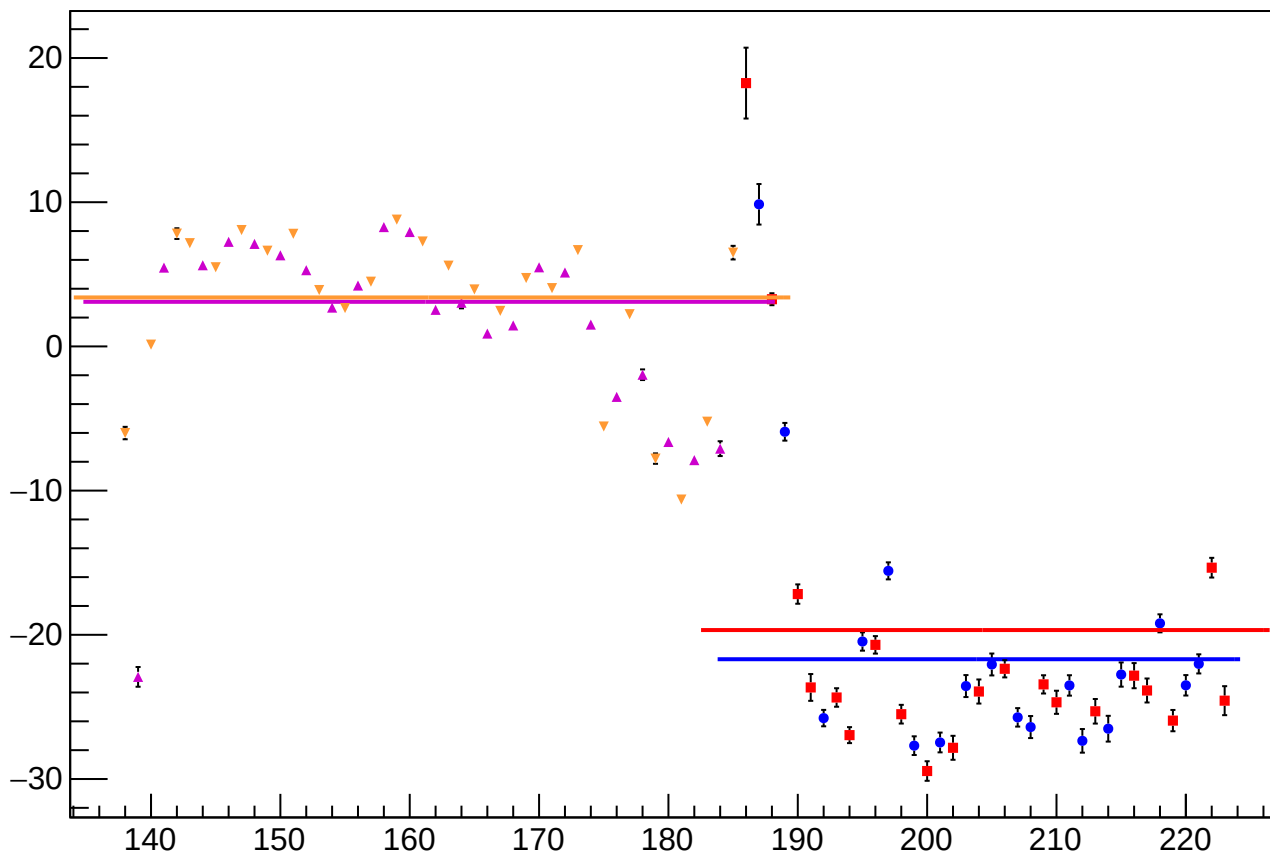
Right: 2.052 $\pm$ 0.078 χ^2 /NDF: 1127.4/37

In: 9.696 $\pm$ 0.063 χ^2 /NDF:21178.6/40

Out: 9.498 $\pm$ 0.062 χ^2 /NDF:25032.4/44

All: 9.594 $\pm$ 0.044 χ^2 /NDF: 46216.0/85

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.693 ± 0.165 $\chi^2/\text{NDF}: 1674.4/17$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -19.671 ± 0.156 $\chi^2/\text{NDF}: 4289.2/19$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

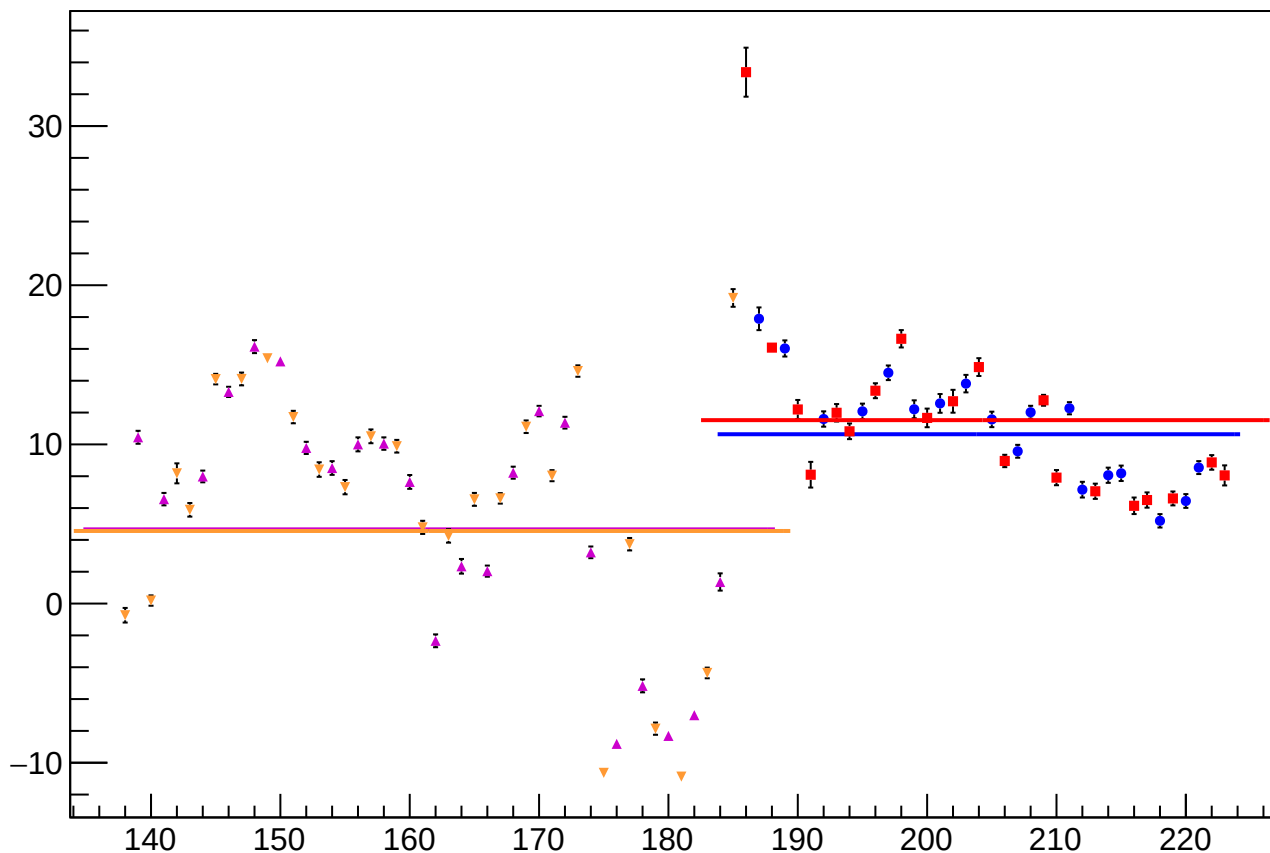
Right: -20.624 ± 0.113 $\chi^2/\text{NDF}: 6043.0/37$

In: 0.152 ± 0.057 $\chi^2/\text{NDF}: 28641.4/40$

Out: 0.558 ± 0.055 $\chi^2/\text{NDF}: 31602.0/44$

All: 0.363 ± 0.039 $\chi^2/\text{NDF}: 60269.8/85$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 10.638+/-0.111 χ^2 /NDF: 783.3/17

Left Out: 4.561+/-0.075 χ^2 /NDF:13592.1/24

Right Out: 11.523+/-0.104 χ^2 /NDF: 1370.9/19

Left In: 4.662+/-0.077 χ^2 /NDF:11281.5/22

Left: 4.610+/-0.054 χ^2 /NDF: 24874.4/47

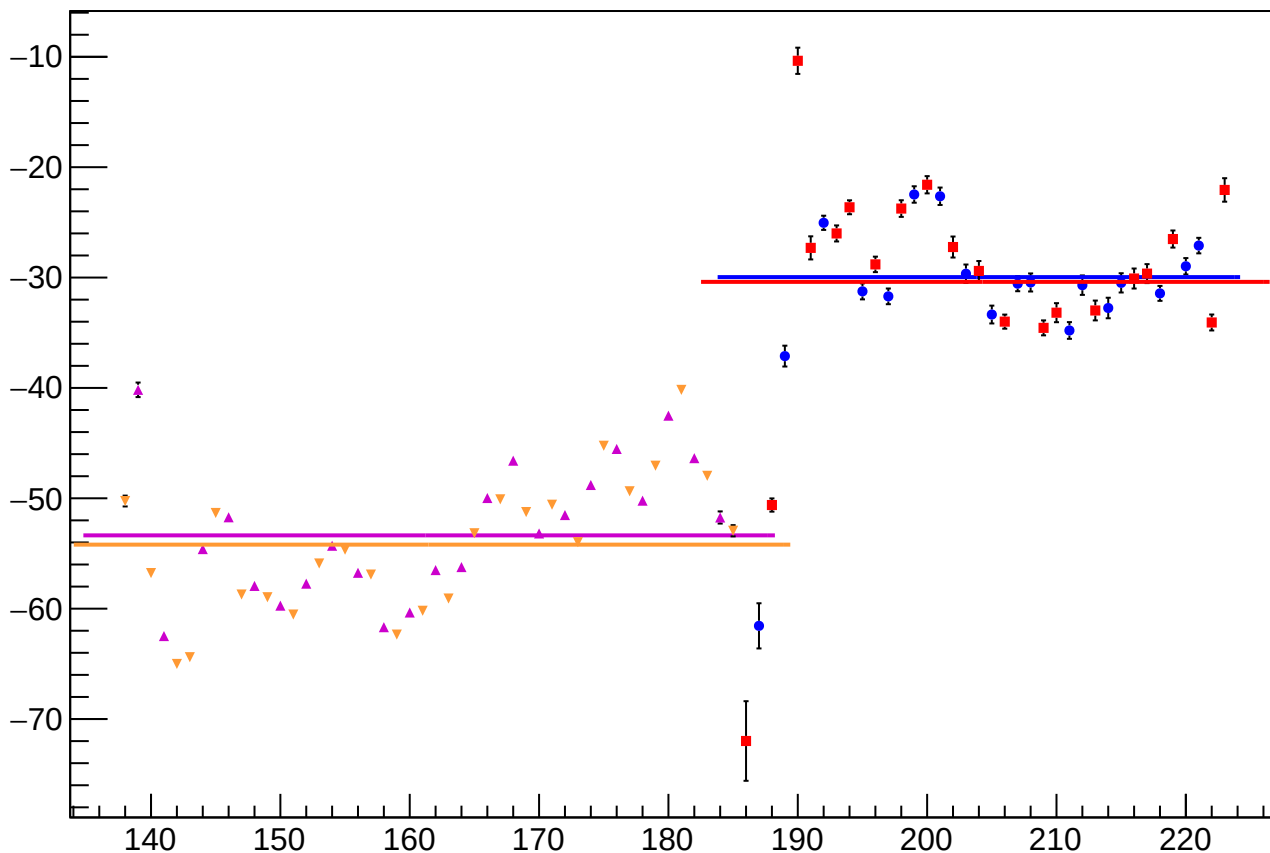
Right: 11.107+/-0.076 χ^2 /NDF: 2188.0/37

In: 6.602+/-0.063 χ^2 /NDF:14029.4/40

Out: 6.948+/-0.061 χ^2 /NDF:17887.0/44

All: 6.780+/-0.044 χ^2 /NDF: 31931.9/85

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -29.959 ± 0.185 $\chi^2/\text{NDF}: 643.3/17$

Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$

Right Out: -30.391 ± 0.180 $\chi^2/\text{NDF}: 2139.7/19$

Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

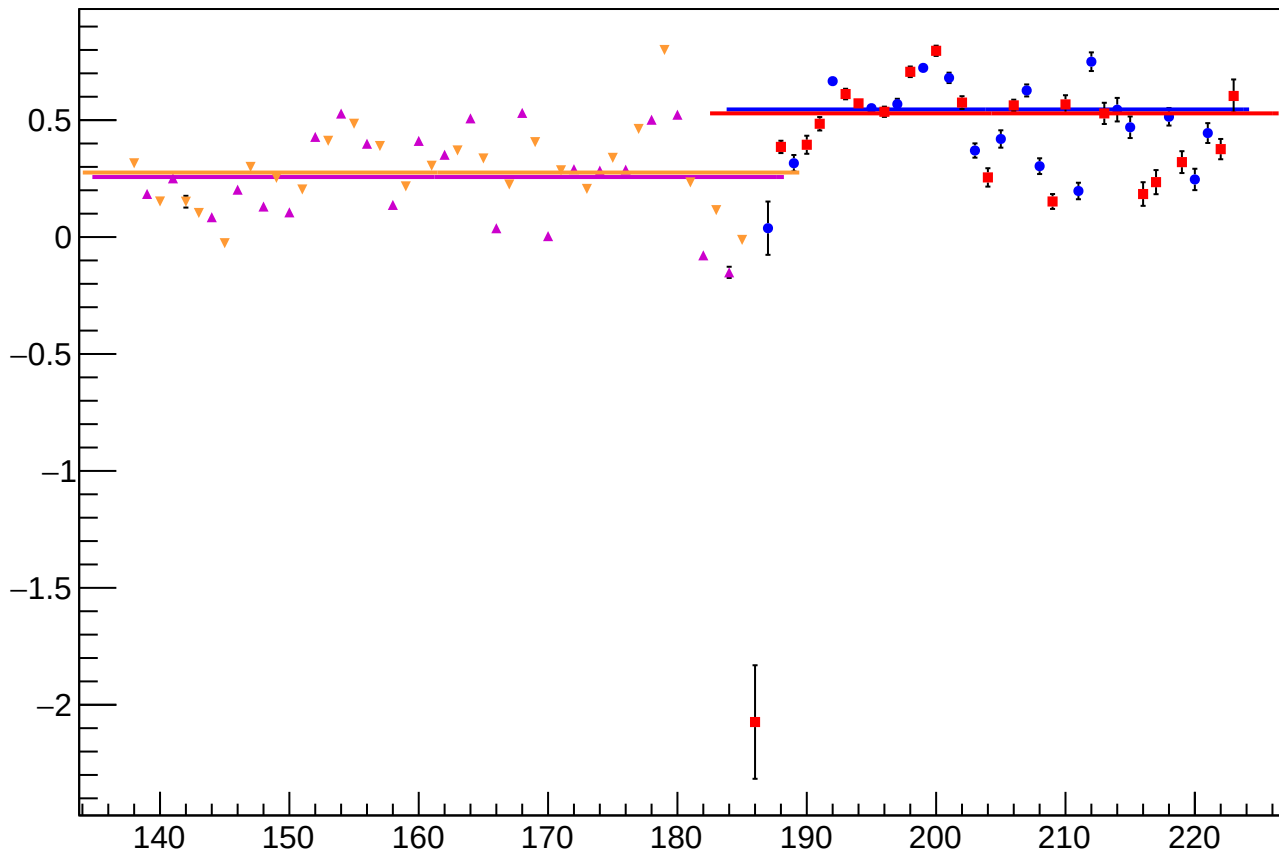
Right: -30.181 ± 0.129 $\chi^2/\text{NDF}: 2785.8/37$

In: -50.542 ± 0.064 $\chi^2/\text{NDF}: 21579.3/40$

Out: -51.345 ± 0.062 $\chi^2/\text{NDF}: 26011.4/44$

All: -50.956 ± 0.045 $\chi^2/\text{NDF}: 47671.2/85$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.546 ± 0.007 χ^2/NDF : 486.4/17

Left Out: 0.276 ± 0.003 χ^2/NDF : 2623.6/24

Right Out: 0.529 ± 0.007 χ^2/NDF : 695.8/19

Left In: 0.257 ± 0.003 χ^2/NDF : 3623.9/22

Left: 0.266 ± 0.002 χ^2/NDF : 6267.0/47

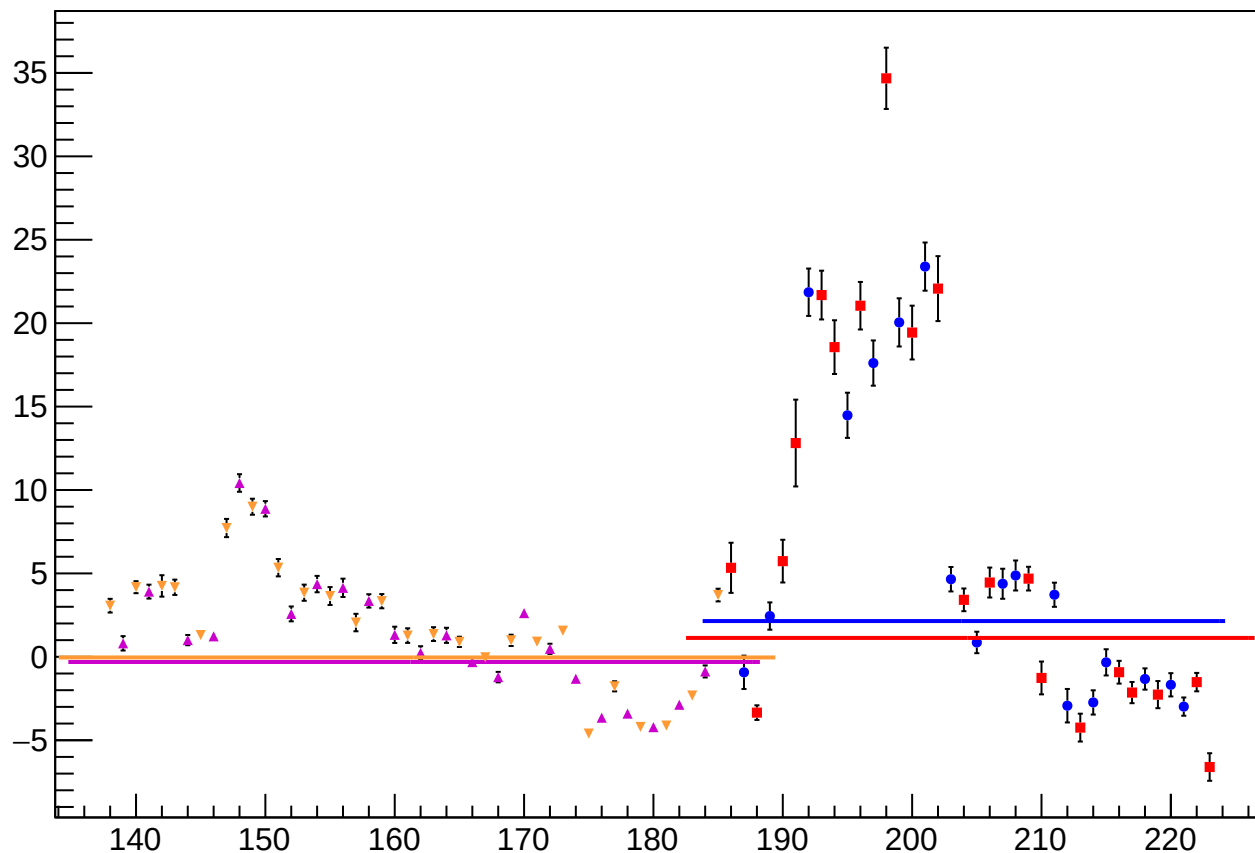
Right: 0.537 ± 0.005 χ^2/NDF : 1185.1/37

In: 0.303 ± 0.003 χ^2/NDF : 5498.0/40

Out: 0.319 ± 0.003 χ^2/NDF : 4493.7/44

All: 0.311 ± 0.002 χ^2/NDF : 10008.2/85

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.144+/-0.196 χ^2/NDF : 1049.3/17

Left Out: -0.037+/-0.066 χ^2/NDF : 2637.7/24

Right Out: 1.133+/-0.191 χ^2/NDF : 1494.1/19

Left In: -0.310+/-0.067 χ^2/NDF : 2250.5/22

Left: -0.171+/-0.047 χ^2/NDF : 4896.5/47

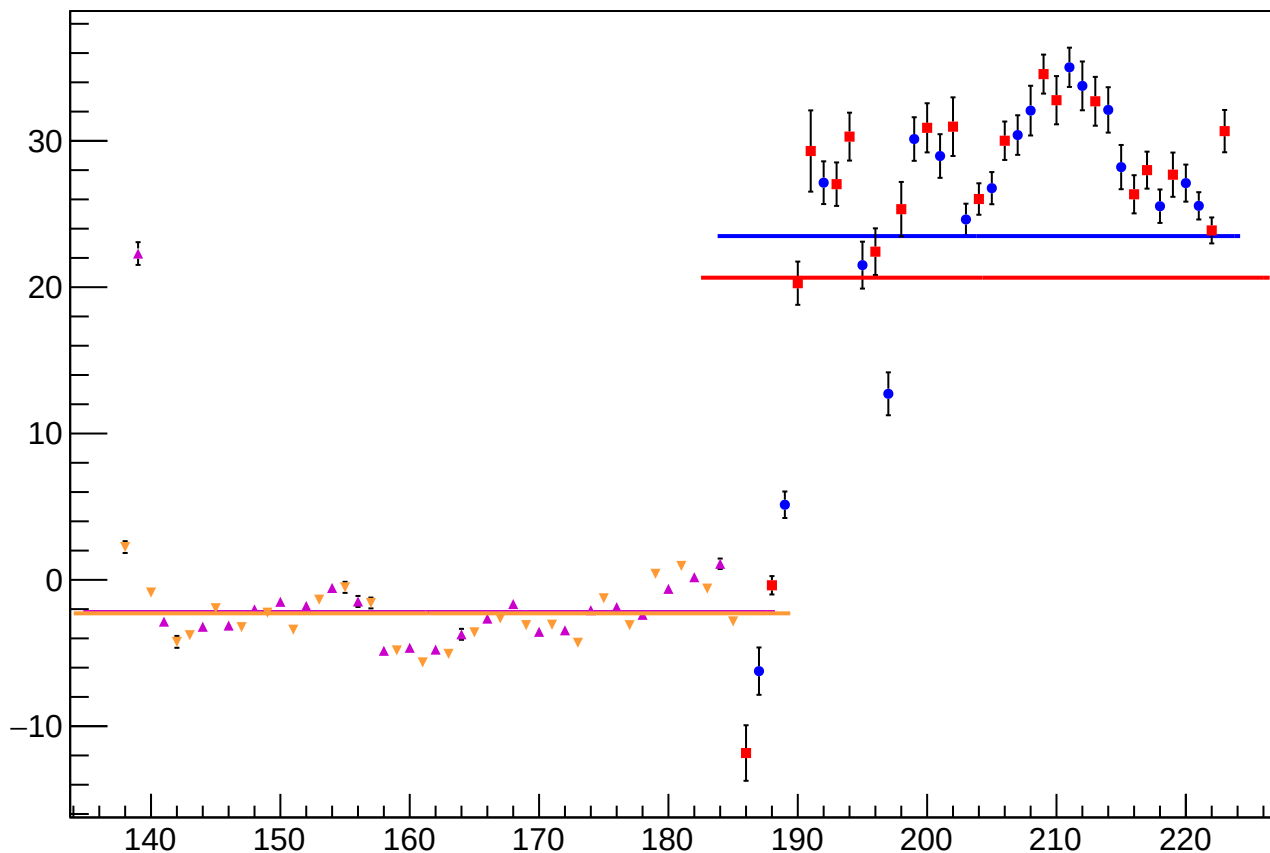
Right: 1.625+/-0.137 χ^2/NDF : 2557.0/37

In: -0.051+/-0.064 χ^2/NDF : 3440.0/40

Out: 0.088+/-0.062 χ^2/NDF : 4165.2/44

All: 0.020+/-0.045 χ^2/NDF : 7607.7/85

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 23.493 $\pm$ 0.305 χ^2 /NDF: 1074.5/17

Left Out: -2.288 $\pm$ 0.054 χ^2 /NDF:1137.7/24

Right Out: 20.650 $\pm$ 0.293 χ^2 /NDF: 1975.4/19

Left In: -2.198 $\pm$ 0.055 χ^2 /NDF:1673.9/22

Left: -2.244 $\pm$ 0.039 χ^2 /NDF: 2813.0/47

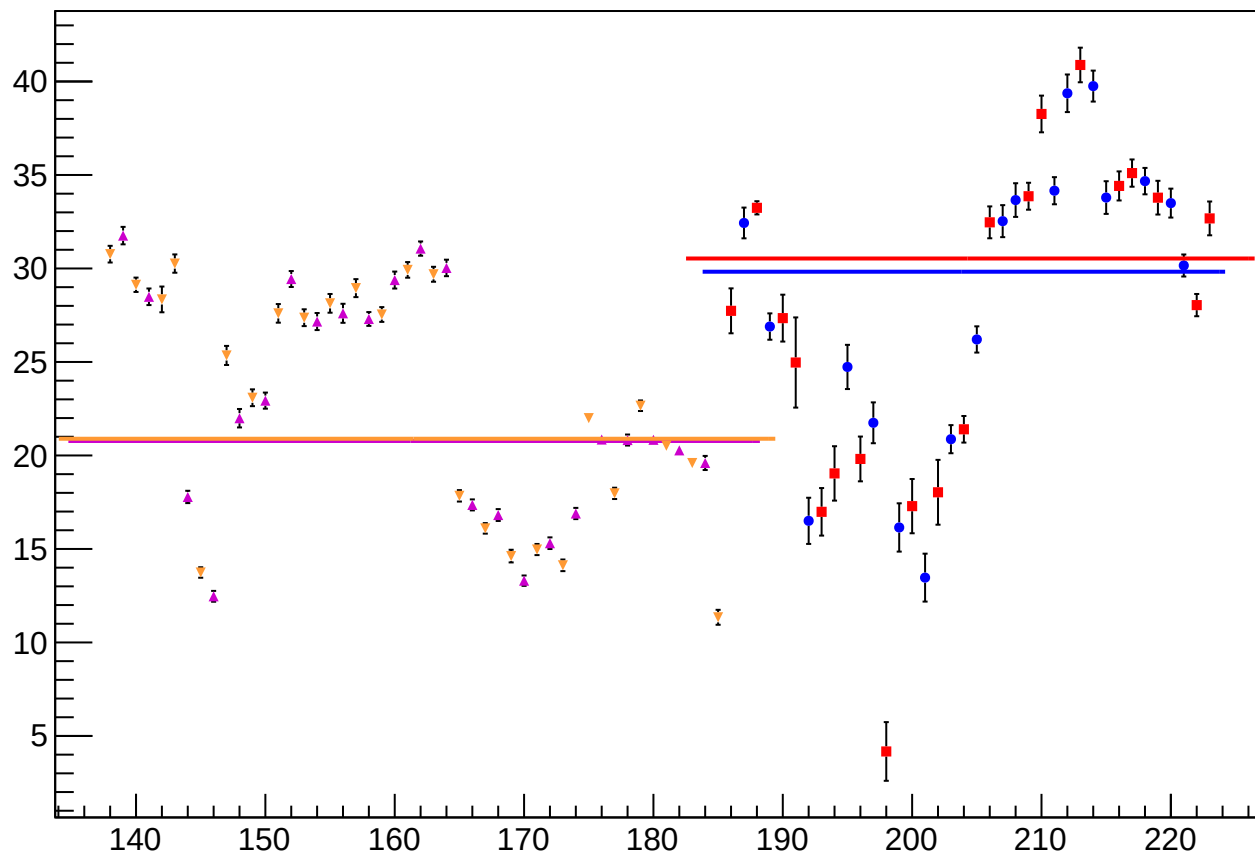
Right: 22.012 $\pm$ 0.211 χ^2 /NDF: 3095.0/37

In: -1.389 $\pm$ 0.054 χ^2 /NDF:9599.0/40

Out: -1.530 $\pm$ 0.053 χ^2 /NDF:9042.2/44

All: -1.461 $\pm$ 0.038 χ^2 /NDF: 18644.6/85

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.826 $\pm$ 0.198 χ^2 /NDF: 1048.8/17

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF:6655.4/24

Right Out: 30.533 $\pm$ 0.186 χ^2 /NDF: 1228.5/19

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

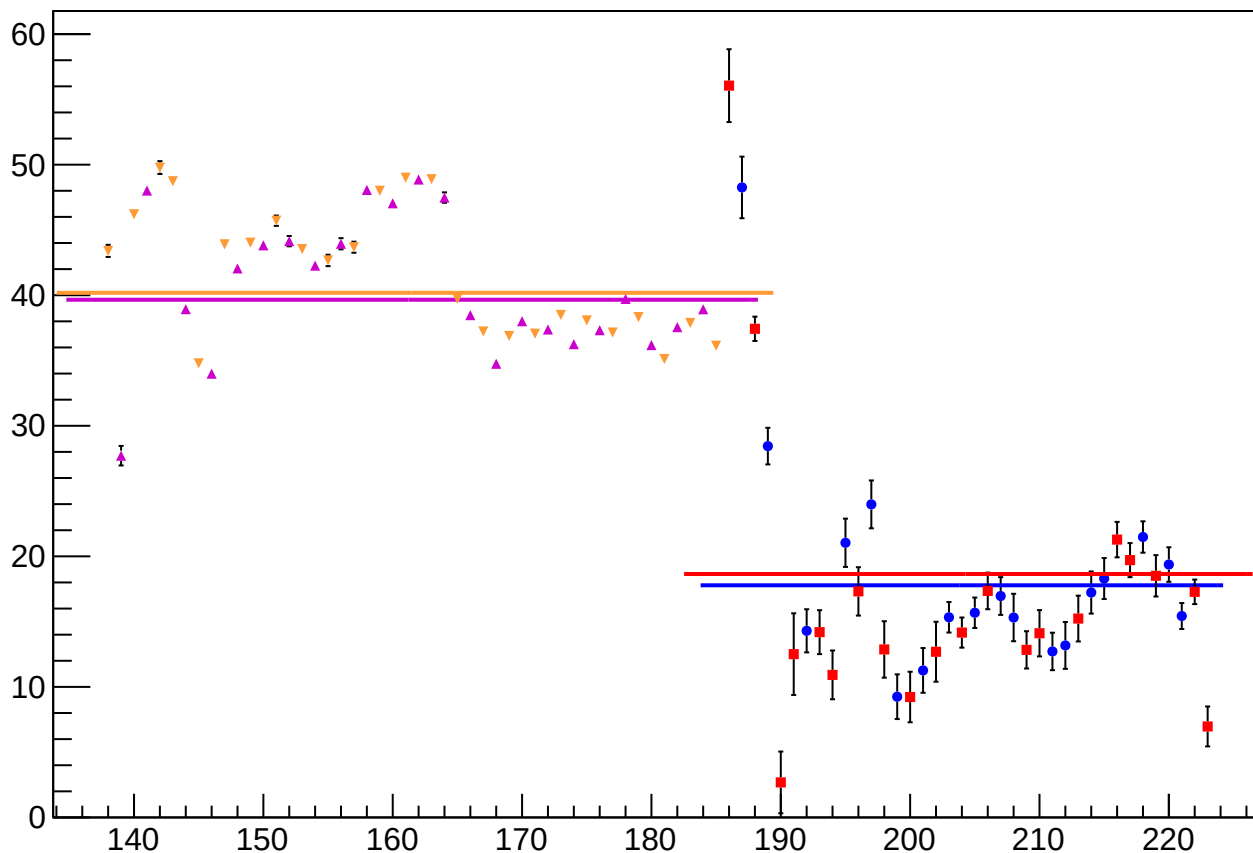
Right: 30.201 $\pm$ 0.136 χ^2 /NDF: 2284.0/37

In: 21.718 $\pm$ 0.064 χ^2 /NDF:8849.9/40

Out: 21.988 $\pm$ 0.063 χ^2 /NDF:10254.9/44

All: 21.856 $\pm$ 0.045 χ^2 /NDF: 19113.9/85

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 17.782 ± 0.344 χ^2/NDF : 328.8/17

Left Out: 40.186 ± 0.060 χ^2/NDF : 5932.7/24

Right Out: 18.648 ± 0.340 χ^2/NDF : 807.1/19

Left In: 39.655 ± 0.061 χ^2/NDF : 5298.6/22

Left: 39.925 ± 0.043 χ^2/NDF : 11269.2/47

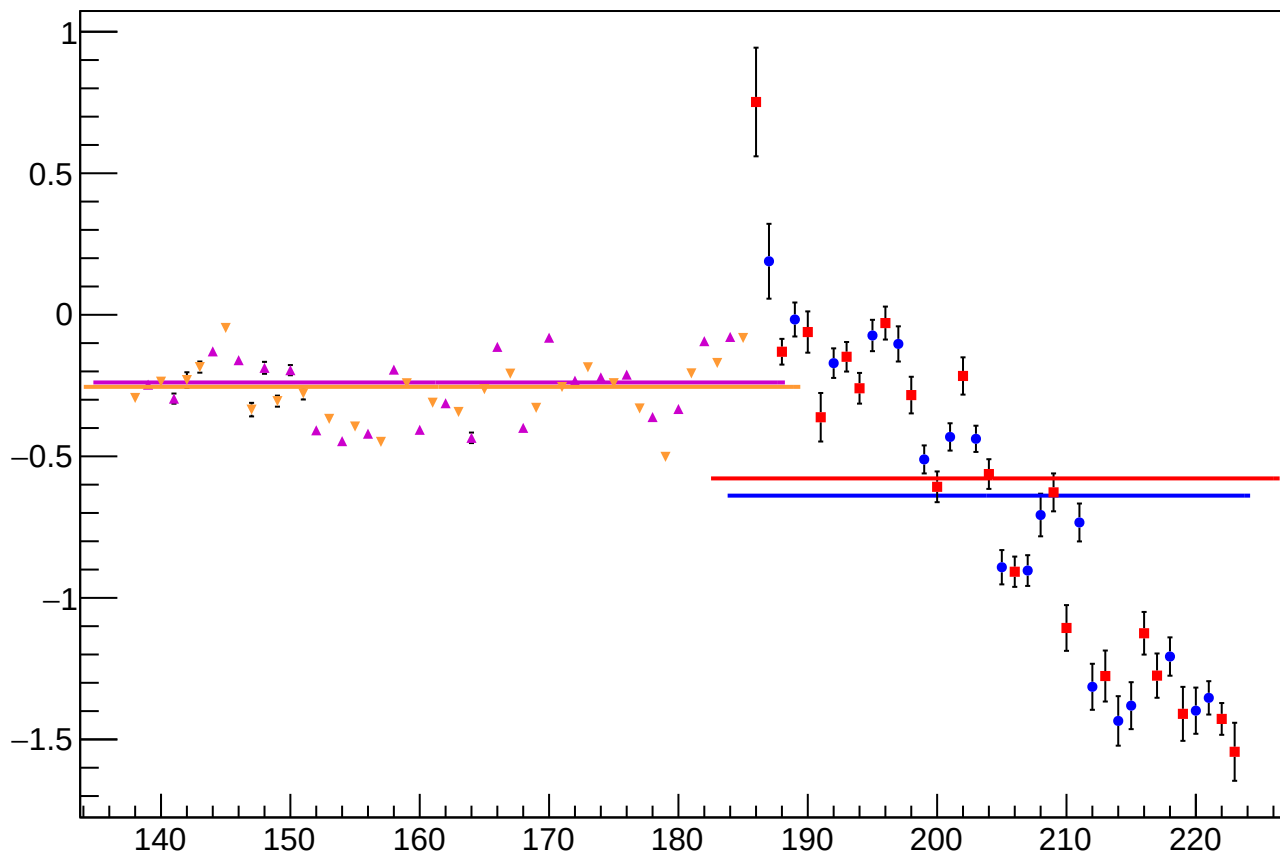
Right: 18.220 ± 0.242 χ^2/NDF : 1139.1/37

In: 38.980 ± 0.060 χ^2/NDF : 9540.3/40

Out: 39.527 ± 0.059 χ^2/NDF : 10629.9/44

All: 39.258 ± 0.042 χ^2/NDF : 20211.9/85

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.639 ± 0.015 χ^2/NDF : 1029.5/17

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.578 ± 0.015 χ^2/NDF : 1111.0/19

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

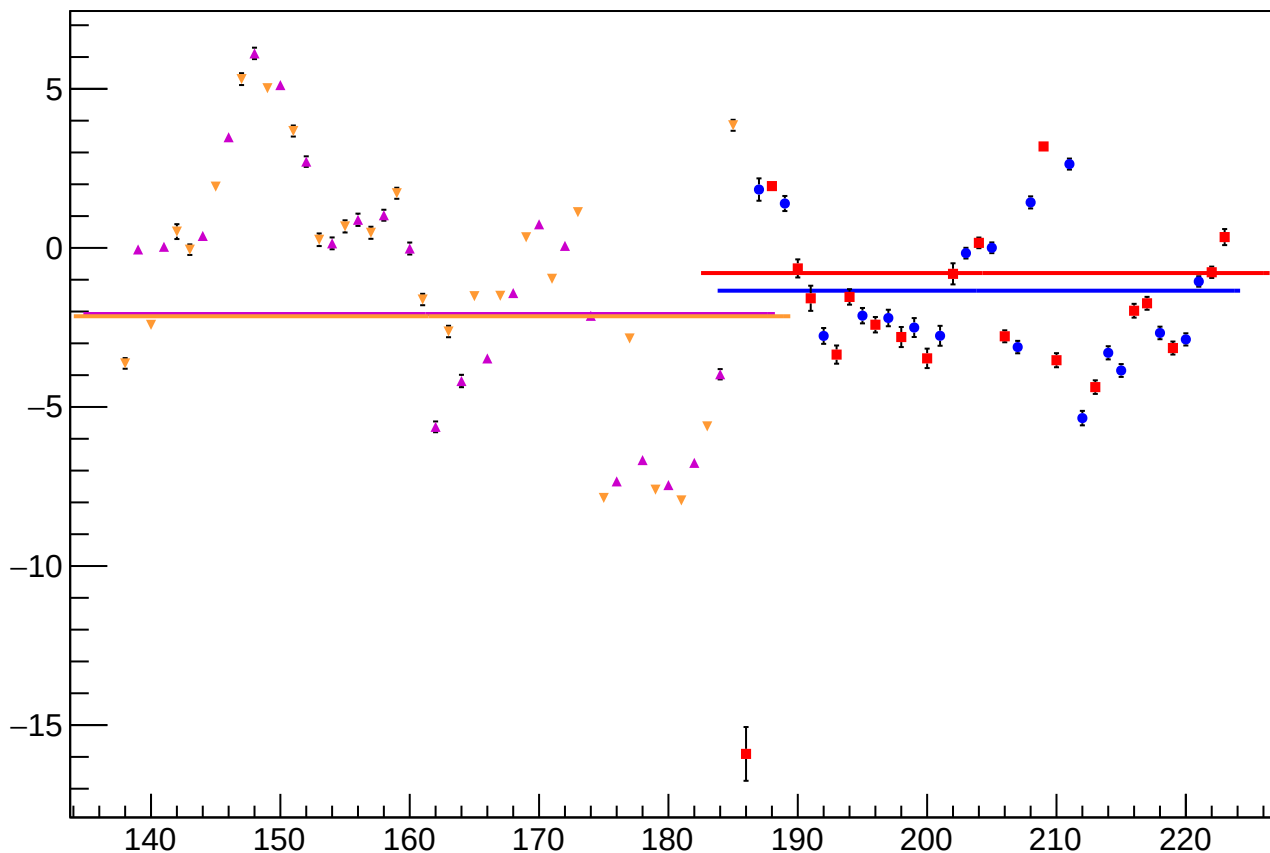
Right: -0.608 ± 0.010 χ^2/NDF : 2149.1/37

In: -0.253 ± 0.003 χ^2/NDF : 3502.4/40

Out: -0.266 ± 0.003 χ^2/NDF : 3008.2/44

All: -0.259 ± 0.002 χ^2/NDF : 6521.3/85

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

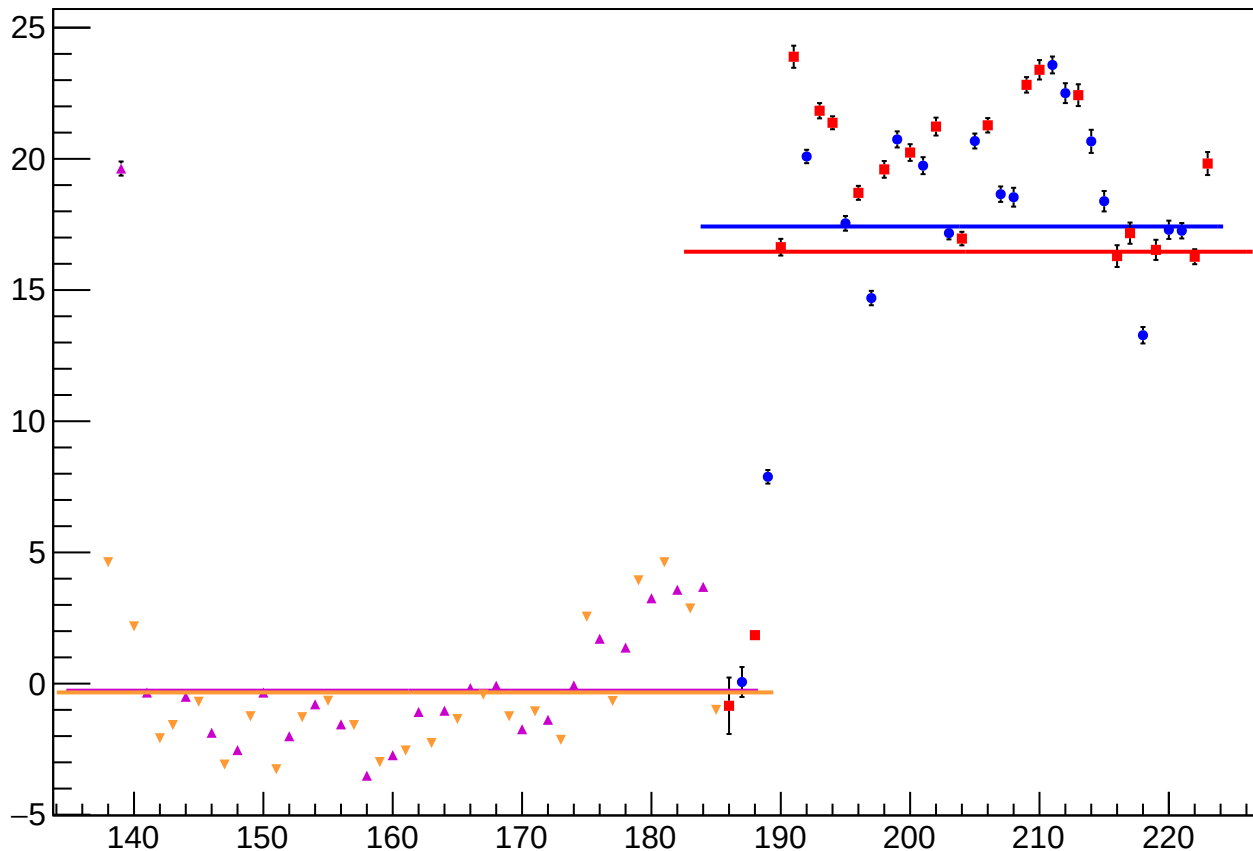


Right In: -1.345 ± 0.049 $\chi^2/\text{NDF}: 1903.4/17$
 Left Out: -2.149 ± 0.026 $\chi^2/\text{NDF}: 24536.3/24$
 Right Out: -0.790 ± 0.048 $\chi^2/\text{NDF}: 2616.5/19$
 Left In: -2.078 ± 0.026 $\chi^2/\text{NDF}: 23245.8/22$

Left: -2.114 ± 0.018 $\chi^2/\text{NDF}: 47785.8/47$
 Right: -1.057 ± 0.034 $\chi^2/\text{NDF}: 4585.3/37$
 In: -1.918 ± 0.023 $\chi^2/\text{NDF}: 25321.5/40$
 Out: -1.843 ± 0.023 $\chi^2/\text{NDF}: 27784.8/44$

All: -1.880 ± 0.016 $\chi^2/\text{NDF}: 53111.8/85$

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.422 ± 0.073 χ^2/NDF : 3598.7/17

Left Out: -0.335 ± 0.021 χ^2/NDF : 12596.1/24

Right Out: 16.461 ± 0.068 χ^2/NDF : 11398.4/19

Left In: -0.269 ± 0.021 χ^2/NDF : 13323.1/22

Left: -0.303 ± 0.015 χ^2/NDF : 25924.2/47

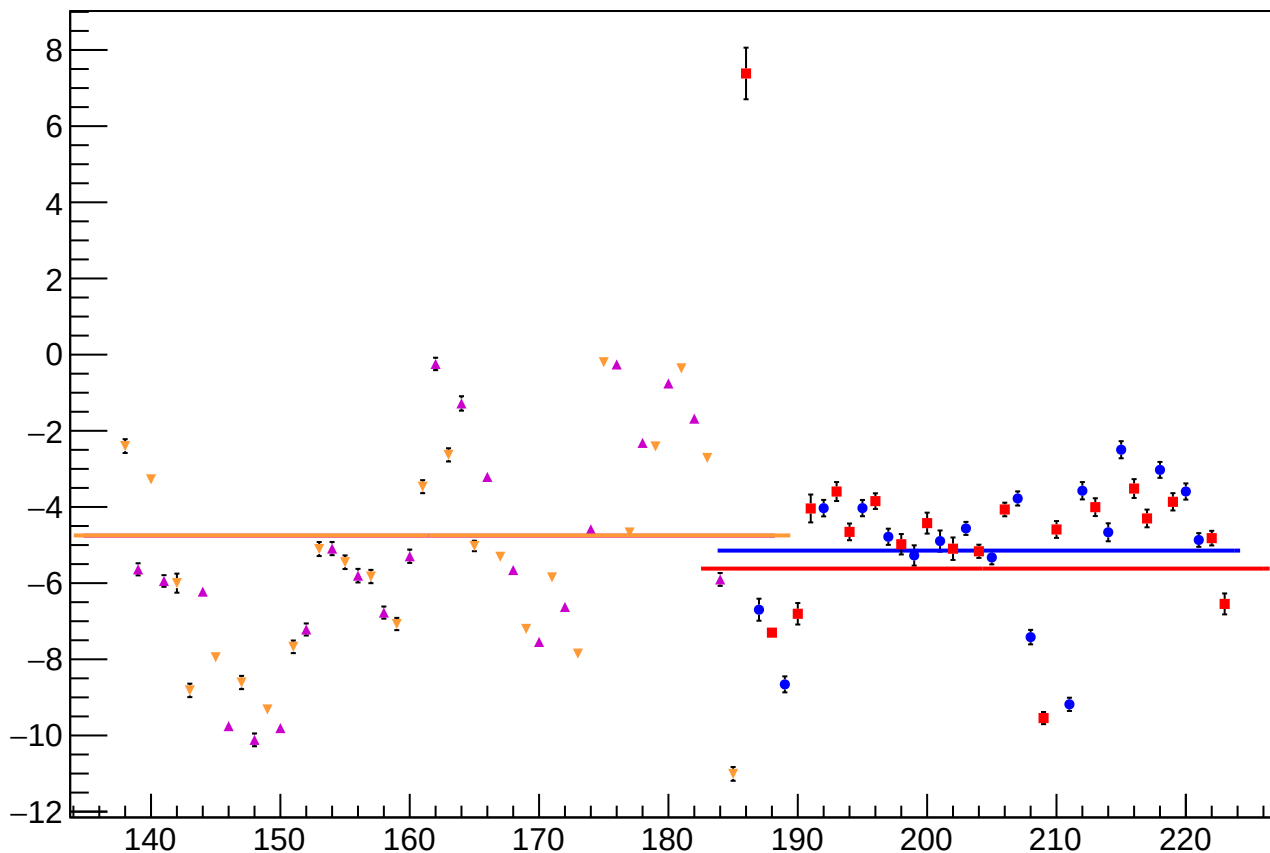
Right: 16.909 ± 0.050 χ^2/NDF : 15089.4/37

In: 1.072 ± 0.020 χ^2/NDF : 71011.6/40

Out: 1.062 ± 0.020 χ^2/NDF : 79395.5/44

All: 1.067 ± 0.014 χ^2/NDF : 150407.2/85

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

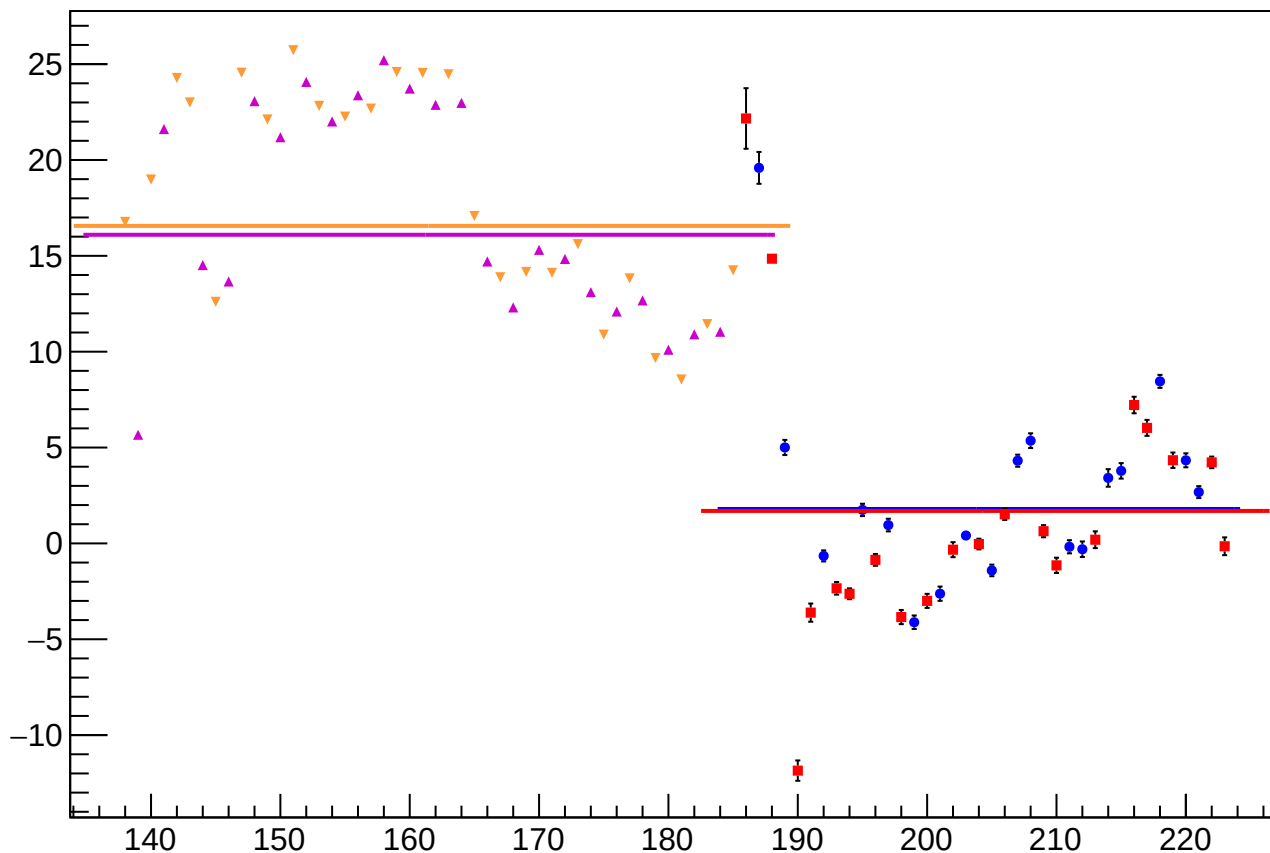


Right In: -5.145 ± 0.049 $\chi^2/\text{NDF}: 1461.3/17$
 Left Out: -4.748 ± 0.026 $\chi^2/\text{NDF}: 13289.8/24$
 Right Out: -5.618 ± 0.045 $\chi^2/\text{NDF}: 1897.6/19$
 Left In: -4.753 ± 0.026 $\chi^2/\text{NDF}: 14119.2/22$

Left: -4.751 ± 0.018 $\chi^2/\text{NDF}: 27409.0/47$
 Right: -5.401 ± 0.033 $\chi^2/\text{NDF}: 3408.7/37$
 In: -4.840 ± 0.023 $\chi^2/\text{NDF}: 15630.2/40$
 Out: -4.961 ± 0.022 $\chi^2/\text{NDF}: 15464.7/44$

All: -4.902 ± 0.016 $\chi^2/\text{NDF}: 31109.0/85$

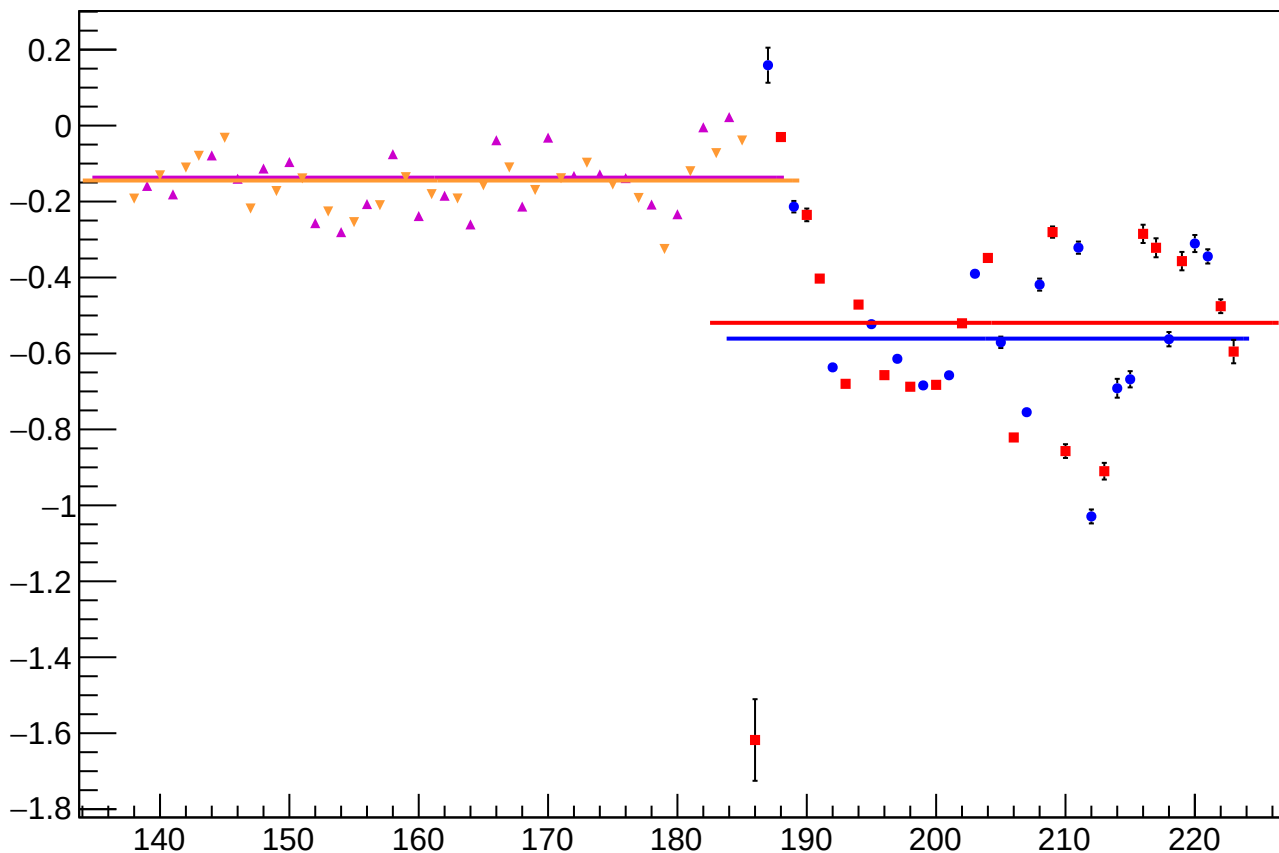
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.796 ± 0.082 $\chi^2/\text{NDF}: 1854.3/17$
 Left Out: 16.563 ± 0.023 $\chi^2/\text{NDF}: 53858.5/24$
 Right Out: 1.694 ± 0.079 $\chi^2/\text{NDF}: 5485.8/19$
 Left In: 16.098 ± 0.024 $\chi^2/\text{NDF}: 42345.7/22$

Left: 16.335 ± 0.017 $\chi^2/\text{NDF}: 96401.9/47$
 Right: 1.743 ± 0.057 $\chi^2/\text{NDF}: 7340.9/37$
 In: 15.010 ± 0.023 $\chi^2/\text{NDF}: 72238.3/40$
 Out: 15.395 ± 0.022 $\chi^2/\text{NDF}: 91741.3/44$
 All: 15.206 ± 0.016 $\chi^2/\text{NDF}: 164127.1/85$

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.561 ± 0.003 χ^2/NDF : 2953.5/17

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.519 ± 0.003 χ^2/NDF : 5710.4/19

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

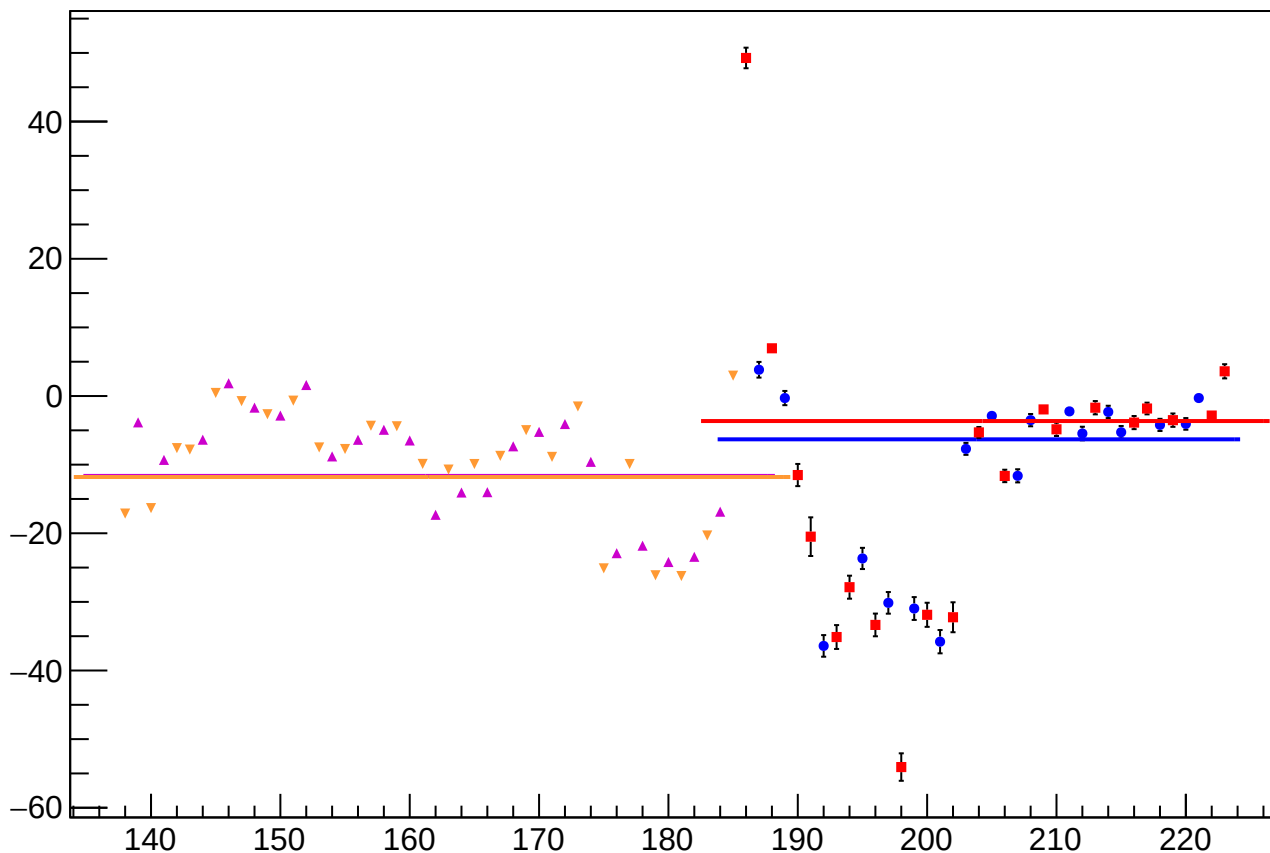
Right: -0.539 ± 0.002 χ^2/NDF : 8755.7/37

In: -0.181 ± 0.001 χ^2/NDF : 24464.8/40

Out: -0.186 ± 0.001 χ^2/NDF : 23582.3/44

All: -0.184 ± 0.001 χ^2/NDF : 48063.5/85

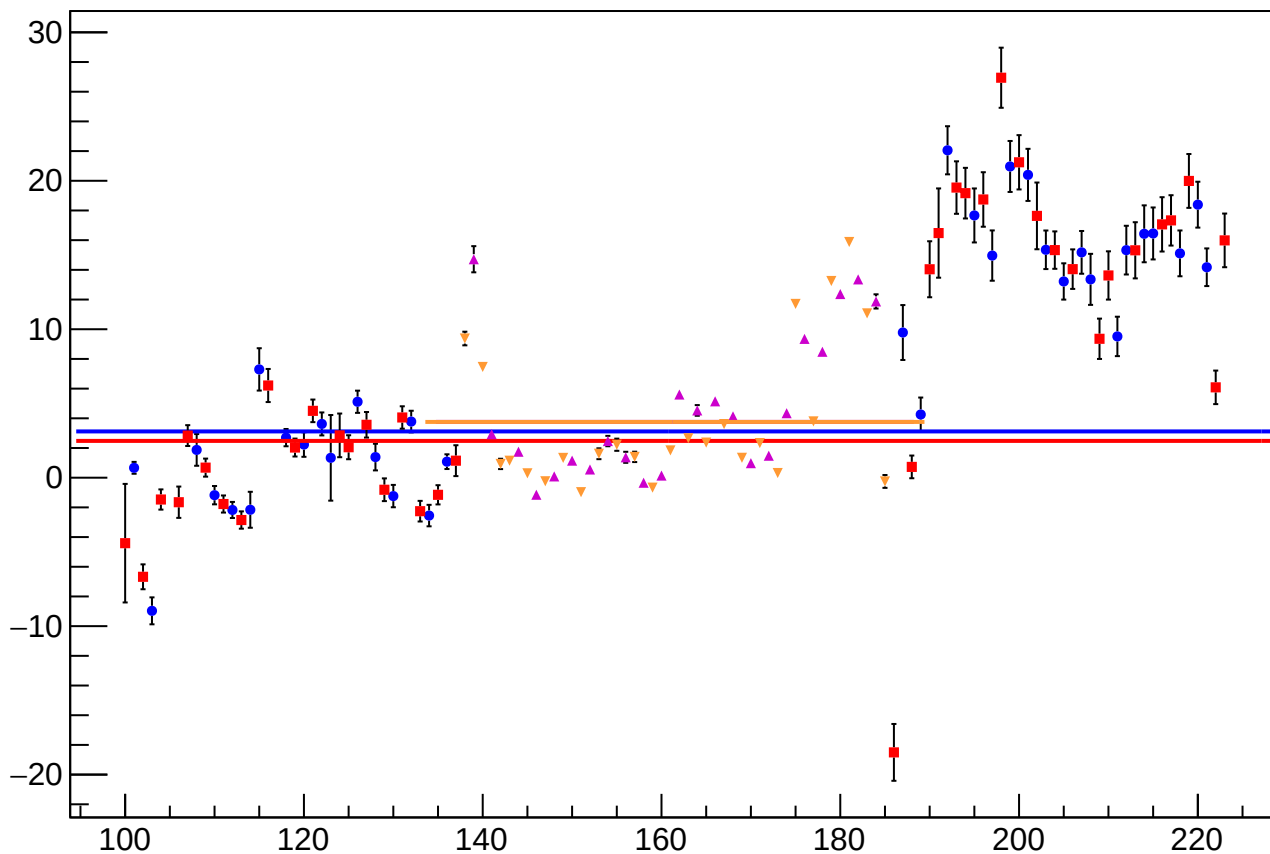
reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.311 ± 0.228 $\chi^2/\text{NDF}: 1553.9/17$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -3.645 ± 0.226 $\chi^2/\text{NDF}: 3765.5/19$
 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: -4.965 ± 0.161 $\chi^2/\text{NDF}: 5388.3/37$
 In: -11.165 ± 0.068 $\chi^2/\text{NDF}: 16171.3/40$
 Out: -11.082 ± 0.067 $\chi^2/\text{NDF}: 22260.3/44$
 All: -11.123 ± 0.048 $\chi^2/\text{NDF}: 38432.4/85$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.117 ± 0.154 $\chi^2/\text{NDF}: 1663.9/34$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 2.478 ± 0.156 $\chi^2/\text{NDF}: 1788.2/38$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

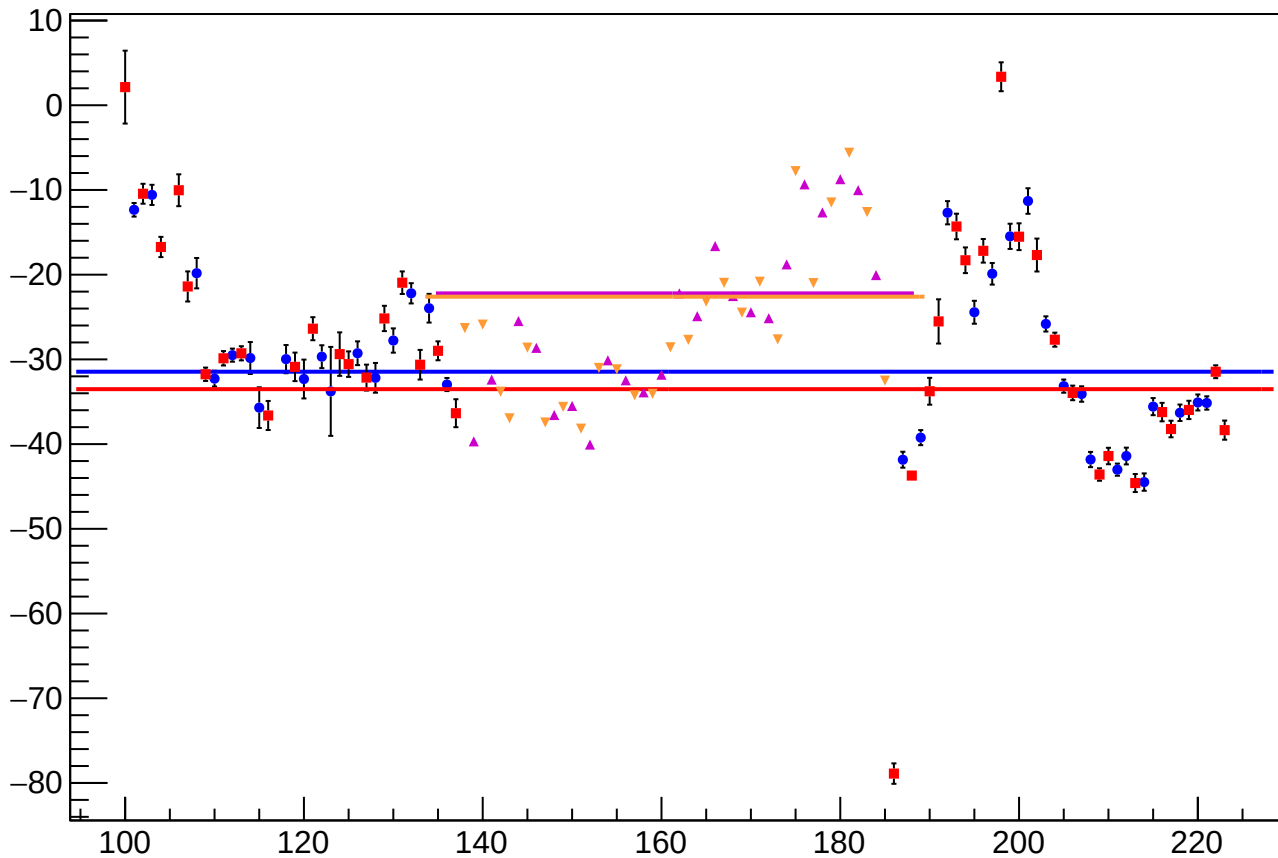
Right: 2.802 ± 0.109 $\chi^2/\text{NDF}: 3460.6/73$

In: 3.681 ± 0.053 $\chi^2/\text{NDF}: 7308.5/57$

Out: 3.612 ± 0.052 $\chi^2/\text{NDF}: 9298.6/63$

All: 3.646 ± 0.037 $\chi^2/\text{NDF}: 16608.0/121$

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -31.455 ± 0.182 $\chi^2/\text{NDF}: 2598.7/34$

Left Out: -22.598 ± 0.071 $\chi^2/\text{NDF}: 19933.4/24$

Right Out: -33.515 ± 0.177 $\chi^2/\text{NDF}: 4602.5/38$

Left In: -22.209 ± 0.072 $\chi^2/\text{NDF}: 17627.4/22$

Left: -22.406 ± 0.050 $\chi^2/\text{NDF}: 37575.6/47$

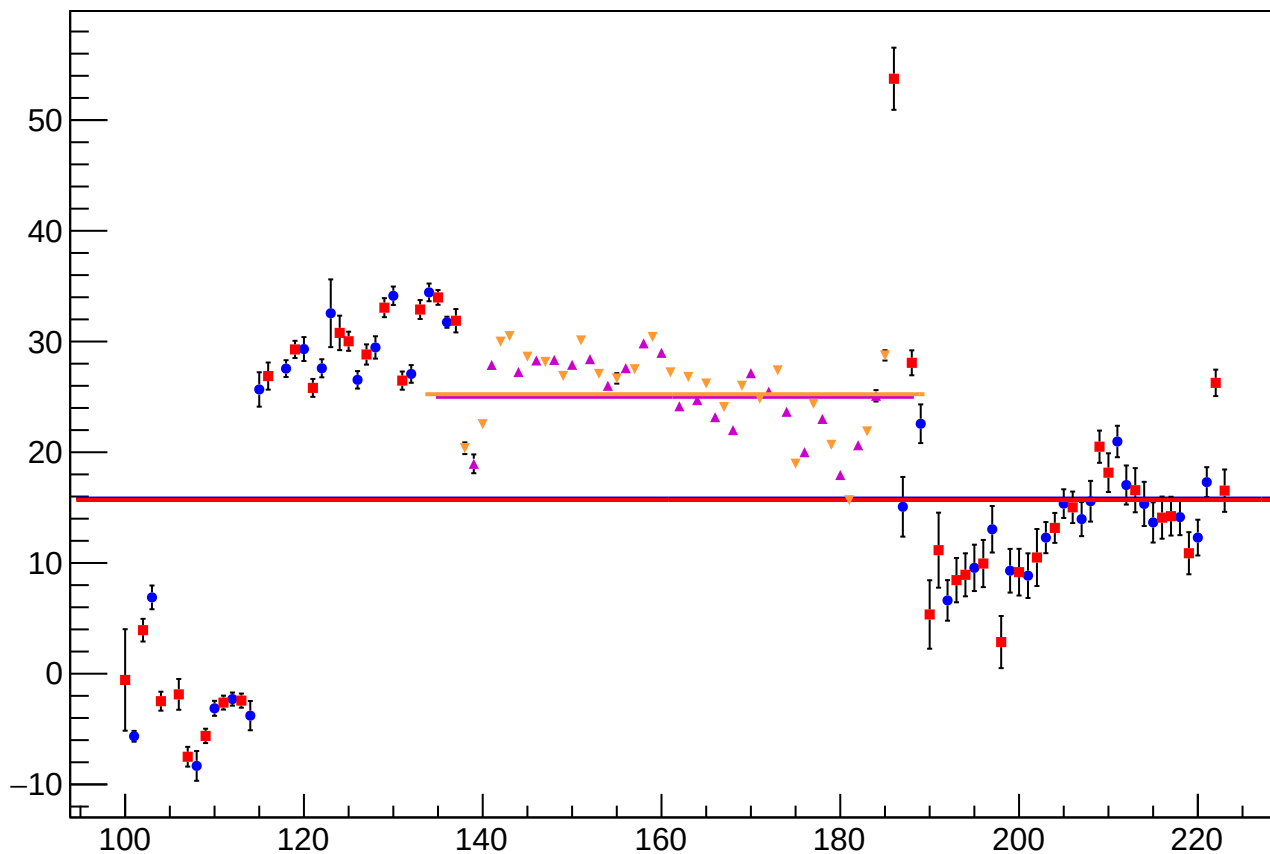
Right: -32.519 ± 0.127 $\chi^2/\text{NDF}: 7267.0/73$

In: -23.443 ± 0.067 $\chi^2/\text{NDF}: 22451.9/57$

Out: -24.106 ± 0.066 $\chi^2/\text{NDF}: 27829.9/63$

All: -23.779 ± 0.047 $\chi^2/\text{NDF}: 50332.0/121$

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.819 $\pm$ 0.173 χ^2 /NDF: 7648.2/34

Left Out: 25.242 $\pm$ 0.063 χ^2 /NDF:3786.5/24

Right Out: 15.686 $\pm$ 0.177 χ^2 /NDF: 7763.0/38

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

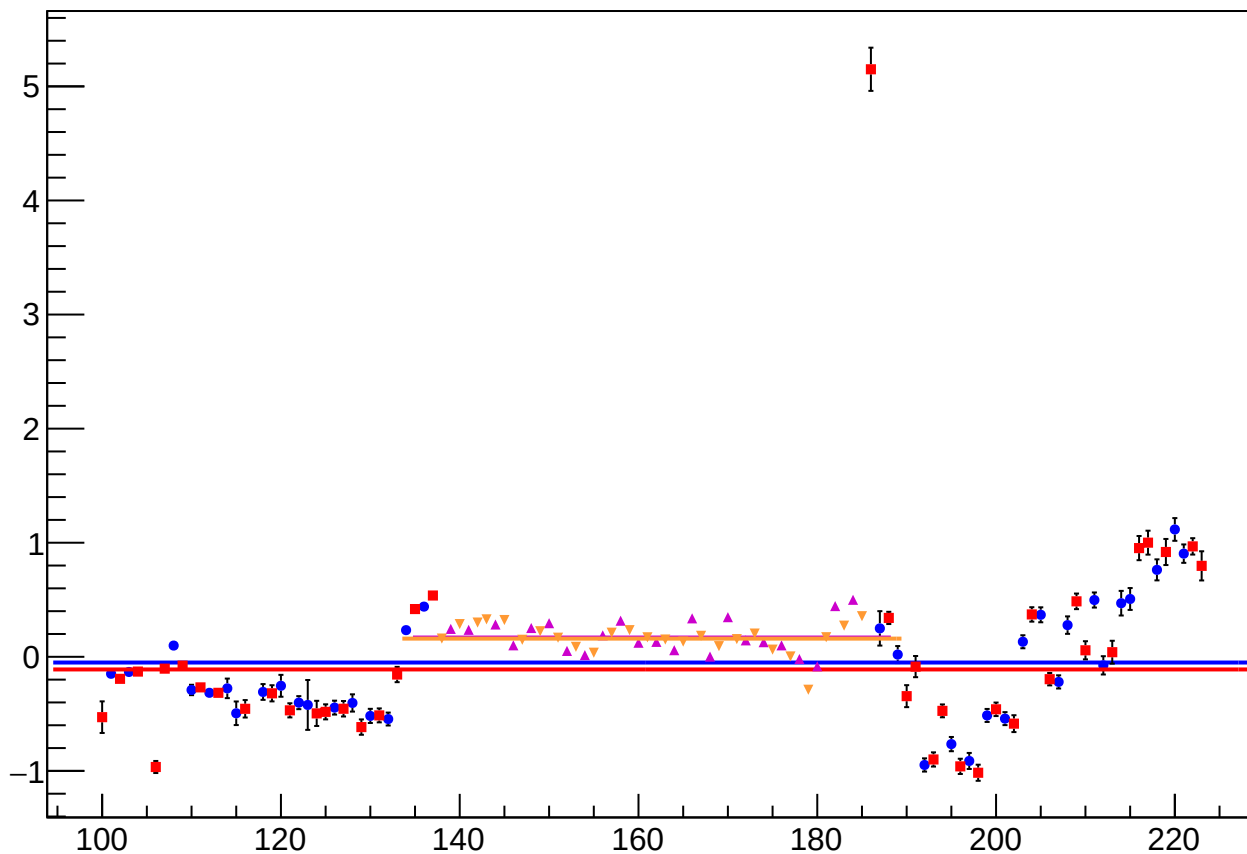
Right: 15.754 $\pm$ 0.124 χ^2 /NDF: 15411.5/73

In: 23.913 $\pm$ 0.060 χ^2 /NDF:12841.9/57

Out: 24.176 $\pm$ 0.059 χ^2 /NDF:14147.0/63

All: 24.046 $\pm$ 0.042 χ^2 /NDF: 26998.7/121

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.050 ± 0.009 χ^2/NDF : 2239.1/34

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.111 ± 0.009 χ^2/NDF : 3332.3/38

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

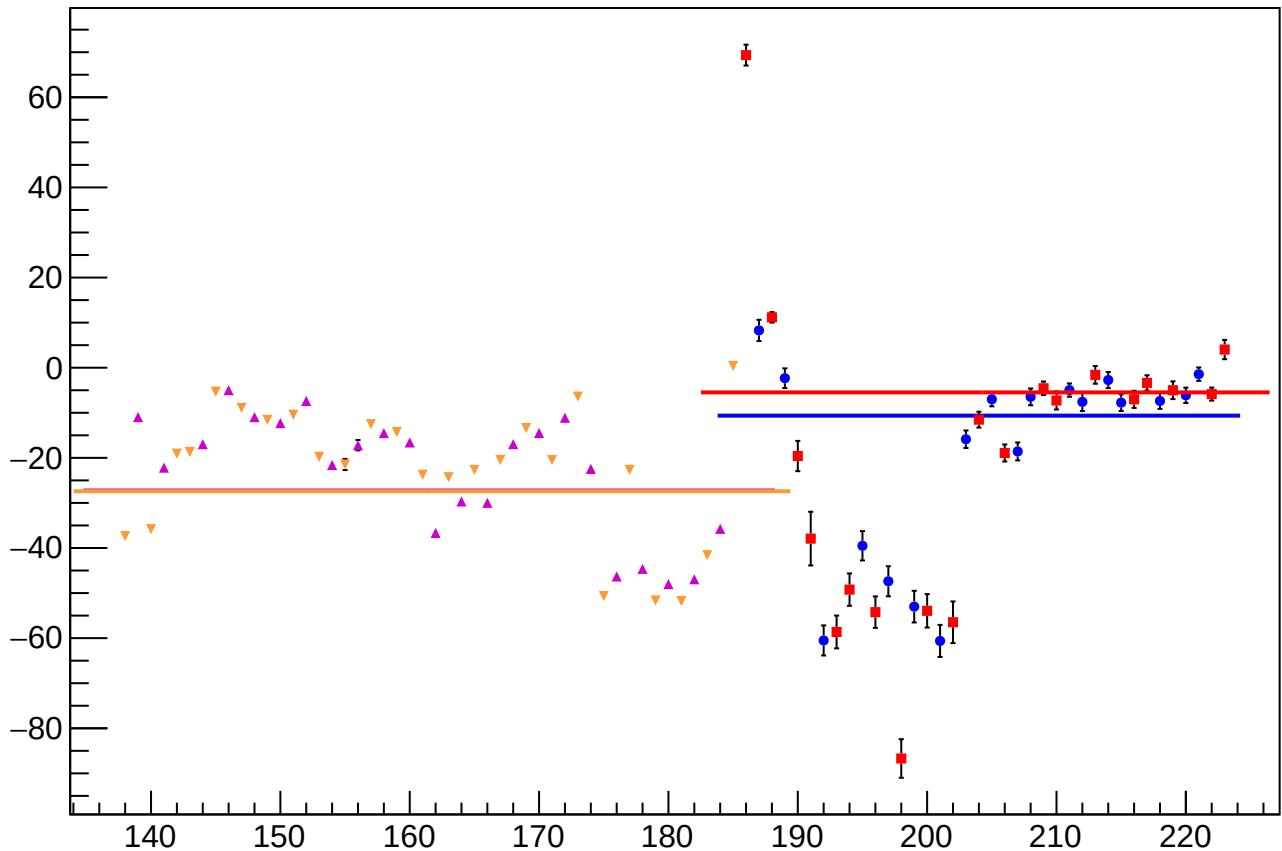
Right: -0.081 ± 0.006 χ^2/NDF : 5595.2/73

In: 0.147 ± 0.003 χ^2/NDF : 5216.2/57

Out: 0.133 ± 0.003 χ^2/NDF : 6048.9/63

All: 0.140 ± 0.002 χ^2/NDF : 11277.8/121

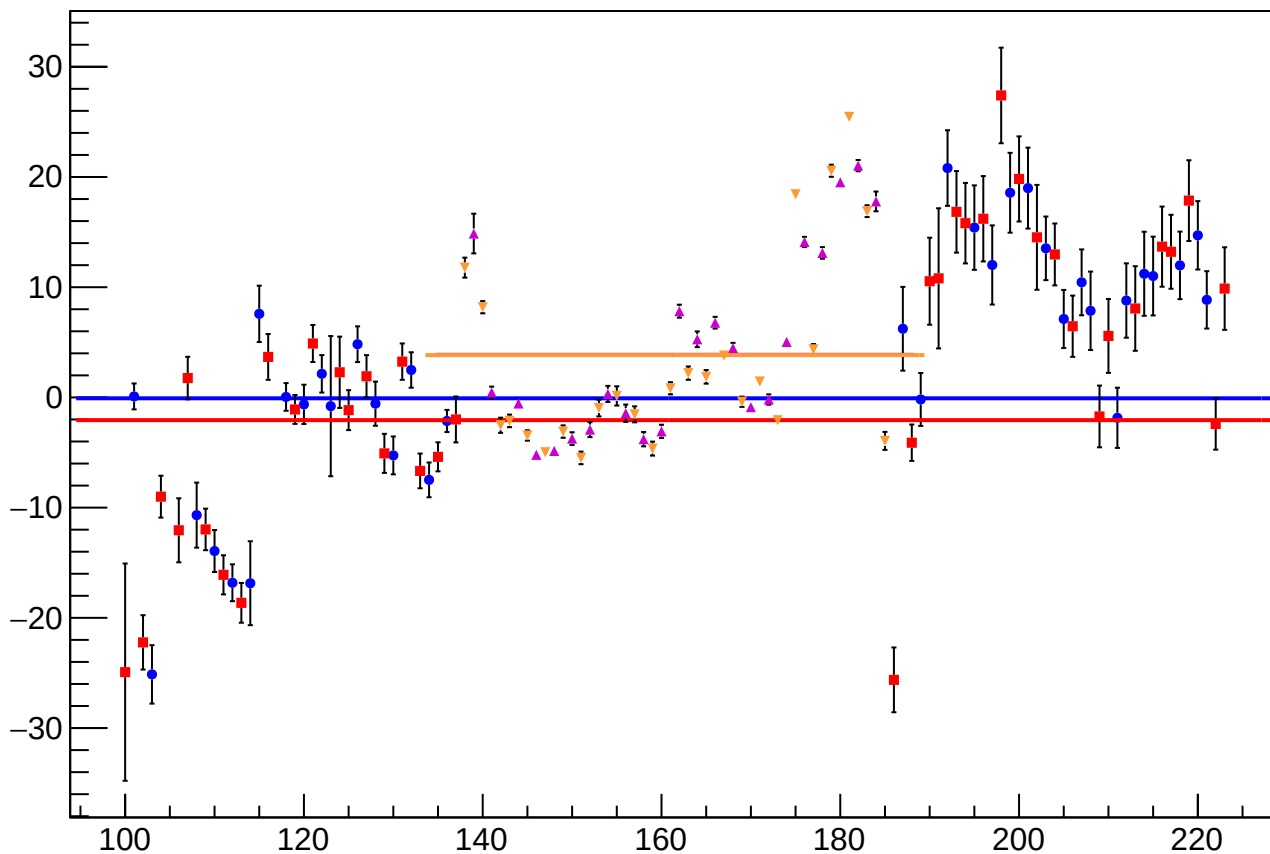
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.635 ± 0.473 χ^2/NDF : 966.9/17
 Left Out: -27.408 ± 0.137 χ^2/NDF : 14850.5/24
 Right Out: -5.480 ± 0.467 χ^2/NDF : 2593.7/19
 Left In: -27.243 ± 0.139 χ^2/NDF : 11305.2/22

Left: -27.327 ± 0.098 χ^2/NDF : 26156.4/47
 Right: -8.022 ± 0.332 χ^2/NDF : 3620.8/37
 In: -25.918 ± 0.134 χ^2/NDF : 13405.4/40
 Out: -25.672 ± 0.131 χ^2/NDF : 19476.7/44
 All: -25.793 ± 0.094 χ^2/NDF : 32883.8/85

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.080 ± 0.360 χ^2/NDF : 576.6/34

Left Out: 3.841 ± 0.109 χ^2/NDF : 6939.2/24

Right Out: -2.062 ± 0.366 χ^2/NDF : 708.0/38

Left In: 3.866 ± 0.111 χ^2/NDF : 5424.0/22

Left: 3.853 ± 0.078 χ^2/NDF : 12363.3/47

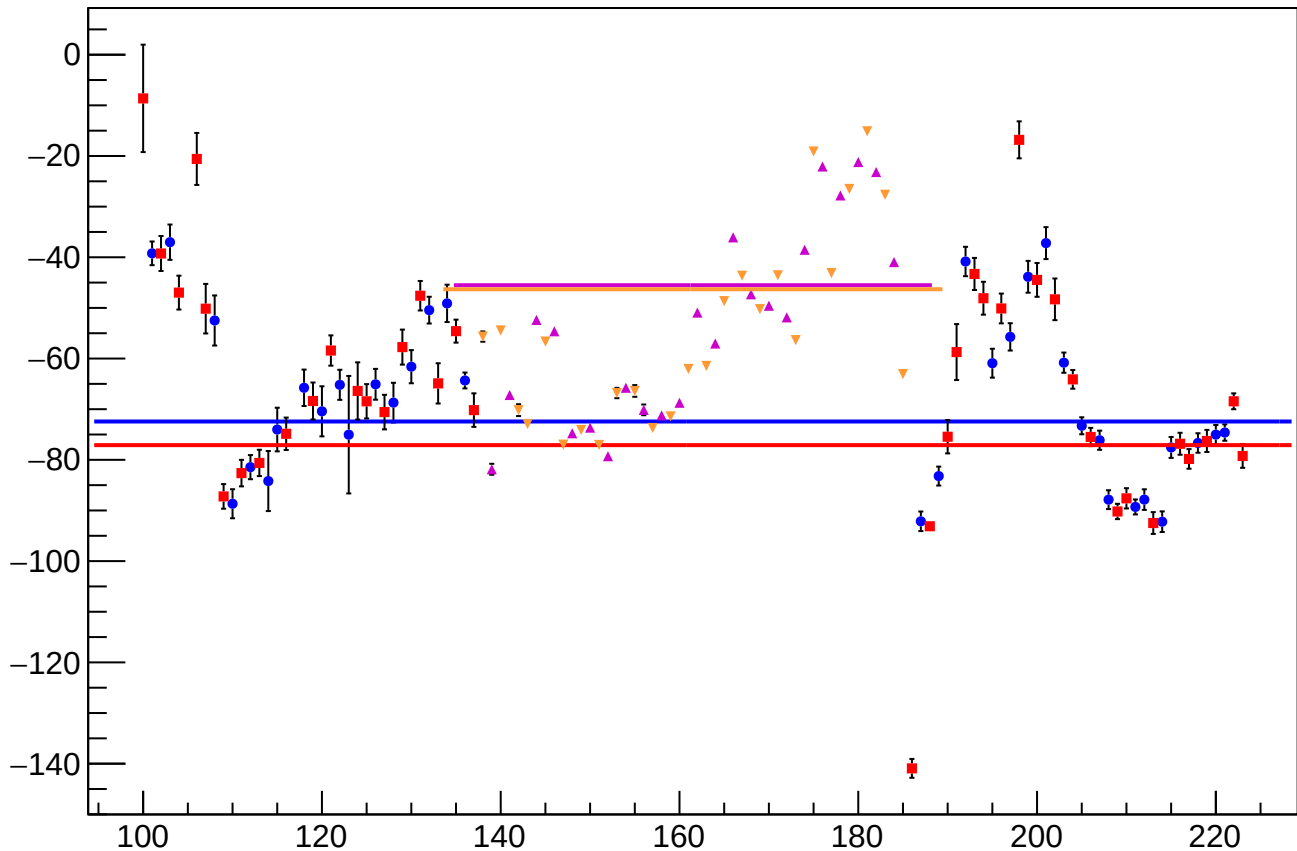
Right: -1.055 ± 0.257 χ^2/NDF : 1299.4/73

In: 3.523 ± 0.106 χ^2/NDF : 6110.2/57

Out: 3.358 ± 0.105 χ^2/NDF : 7886.1/63

All: 3.439 ± 0.075 χ^2/NDF : 13997.5/121

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.431+/-0.401 χ^2/NDF : 1456.5/34

Left Out: -46.318+/-0.138 χ^2/NDF : 20134.6/24

Right Out: -77.098+/-0.388 χ^2/NDF : 3133.7/38

Left In: -45.522+/-0.140 χ^2/NDF : 17525.4/22

Left: -45.925+/-0.098 χ^2/NDF : 37676.5/47

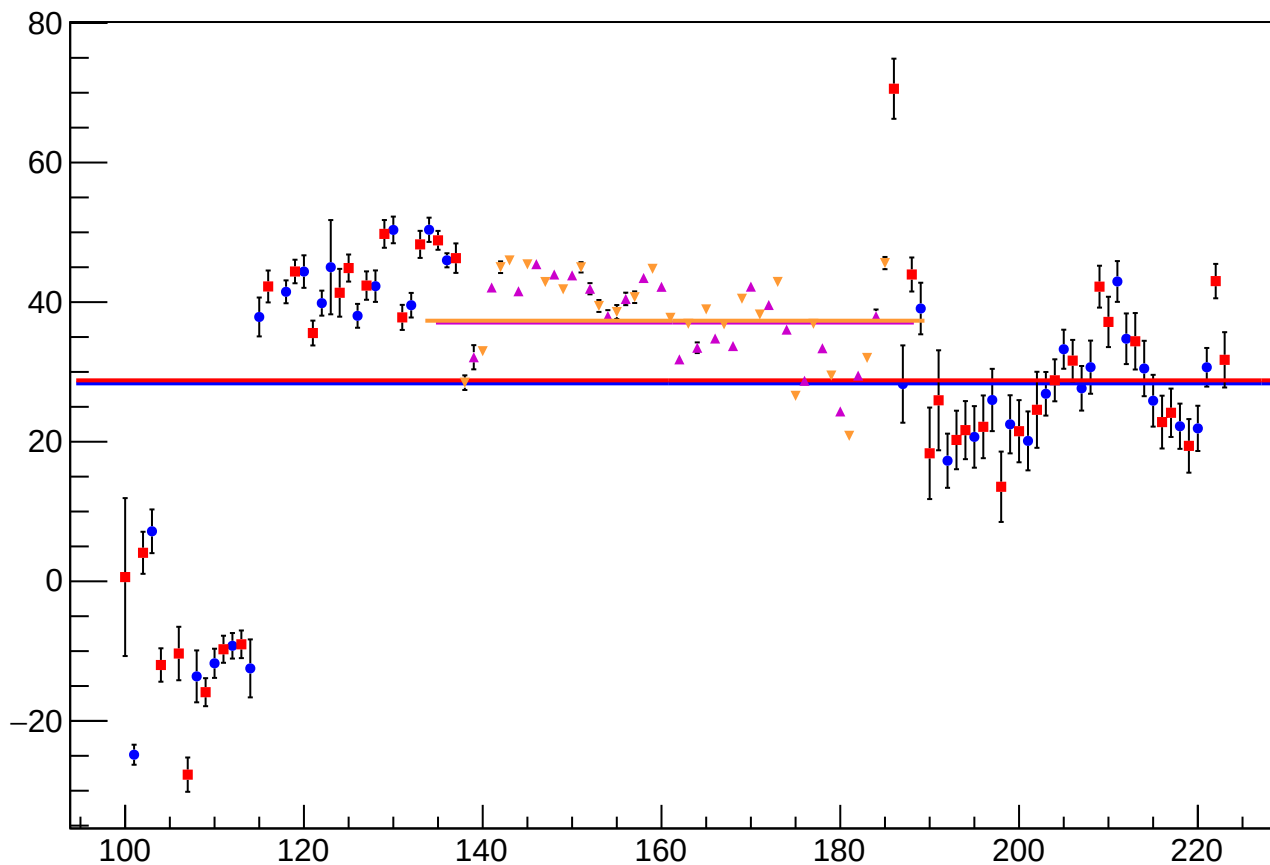
Right: -74.838+/-0.279 χ^2/NDF : 4660.2/73

In: -48.441+/-0.132 χ^2/NDF : 23004.1/57

Out: -49.768+/-0.130 χ^2/NDF : 28849.9/63

All: -49.114+/-0.093 χ^2/NDF : 51905.4/121

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.363 $\pm$ 0.403 χ^2 /NDF: 3377.4/34

Left Out: 37.340 $\pm$ 0.123 χ^2 /NDF:3149.1/24

Right Out: 28.793 $\pm$ 0.414 χ^2 /NDF: 3269.5/38

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

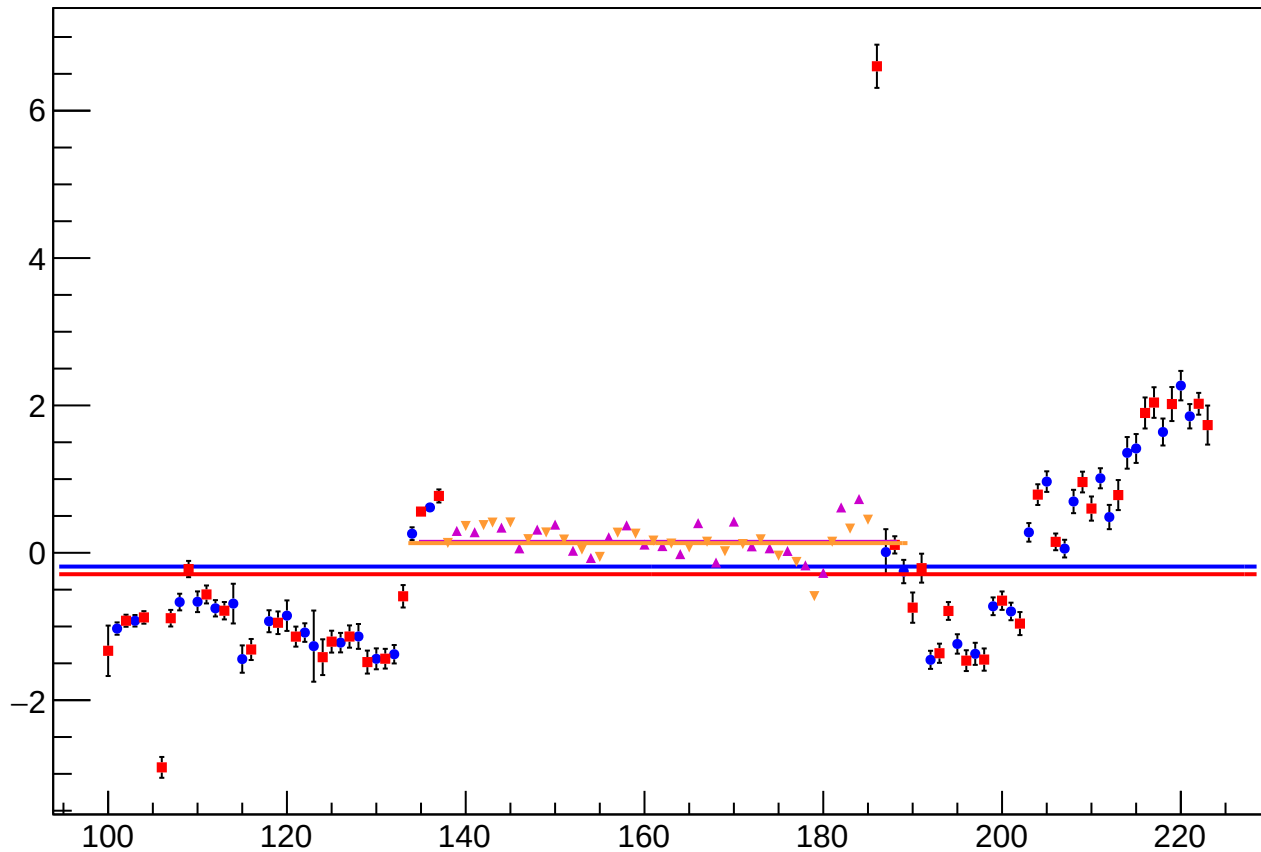
Right: 28.572 $\pm$ 0.289 χ^2 /NDF: 6647.4/73

In: 36.309 $\pm$ 0.120 χ^2 /NDF:6199.9/57

Out: 36.649 $\pm$ 0.118 χ^2 /NDF:6809.6/63

All: 36.482 $\pm$ 0.084 χ^2 /NDF: 13013.6/121

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.187 ± 0.020 χ^2/NDF : 2051.0/34

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.291 ± 0.021 χ^2/NDF : 2889.6/38

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

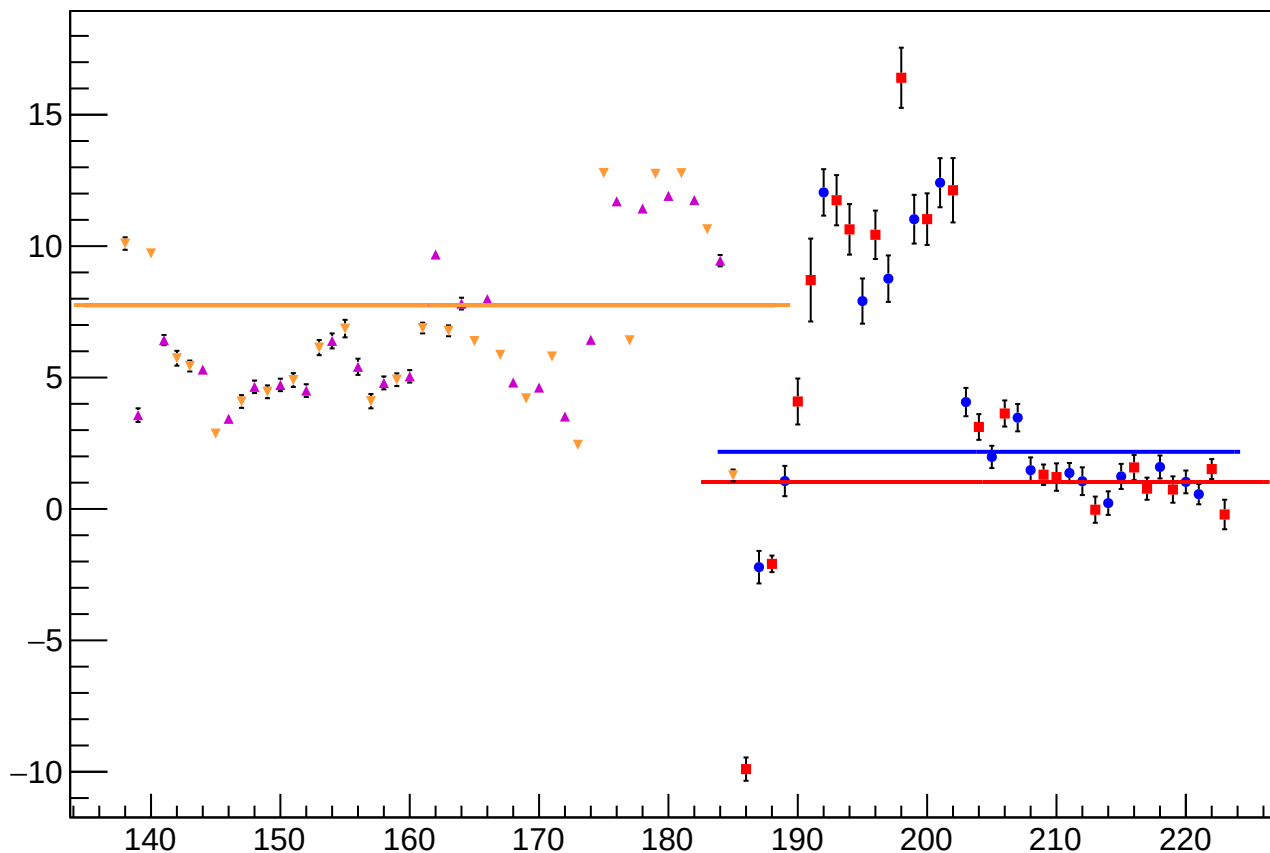
Right: -0.238 ± 0.015 χ^2/NDF : 4953.4/73

In: 0.124 ± 0.006 χ^2/NDF : 4106.5/57

Out: 0.102 ± 0.005 χ^2/NDF : 4702.2/63

All: 0.113 ± 0.004 χ^2/NDF : 8816.6/121

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.175 $\pm$ 0.123 χ^2 /NDF: 568.4/17

Left Out: 7.757 $\pm$ 0.034 χ^2 /NDF:11728.6/24

Right Out: 1.026 $\pm$ 0.120 χ^2 /NDF: 1494.8/19

Left In: 7.753 $\pm$ 0.035 χ^2 /NDF:8345.2/22

Left: 7.755 $\pm$ 0.025 χ^2 /NDF: 20073.8/47

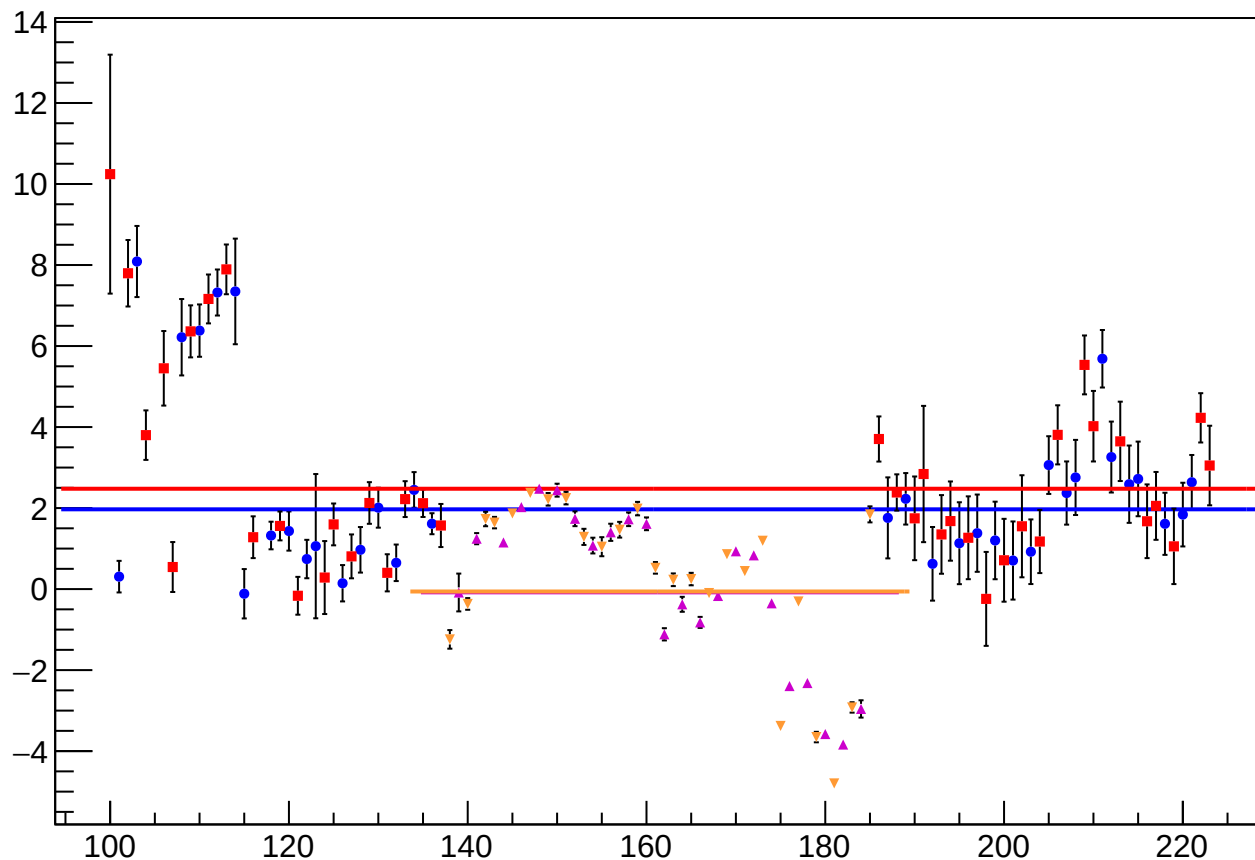
Right: 1.585 $\pm$ 0.086 χ^2 /NDF: 2107.9/37

In: 7.335 $\pm$ 0.034 χ^2 /NDF:10808.3/40

Out: 7.247 $\pm$ 0.033 χ^2 /NDF:16132.8/44

All: 7.290 $\pm$ 0.024 χ^2 /NDF: 26944.6/85

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.969 ± 0.100 $\chi^2/\text{NDF}: 337.0/34$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.477 ± 0.102 $\chi^2/\text{NDF}: 394.5/38$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

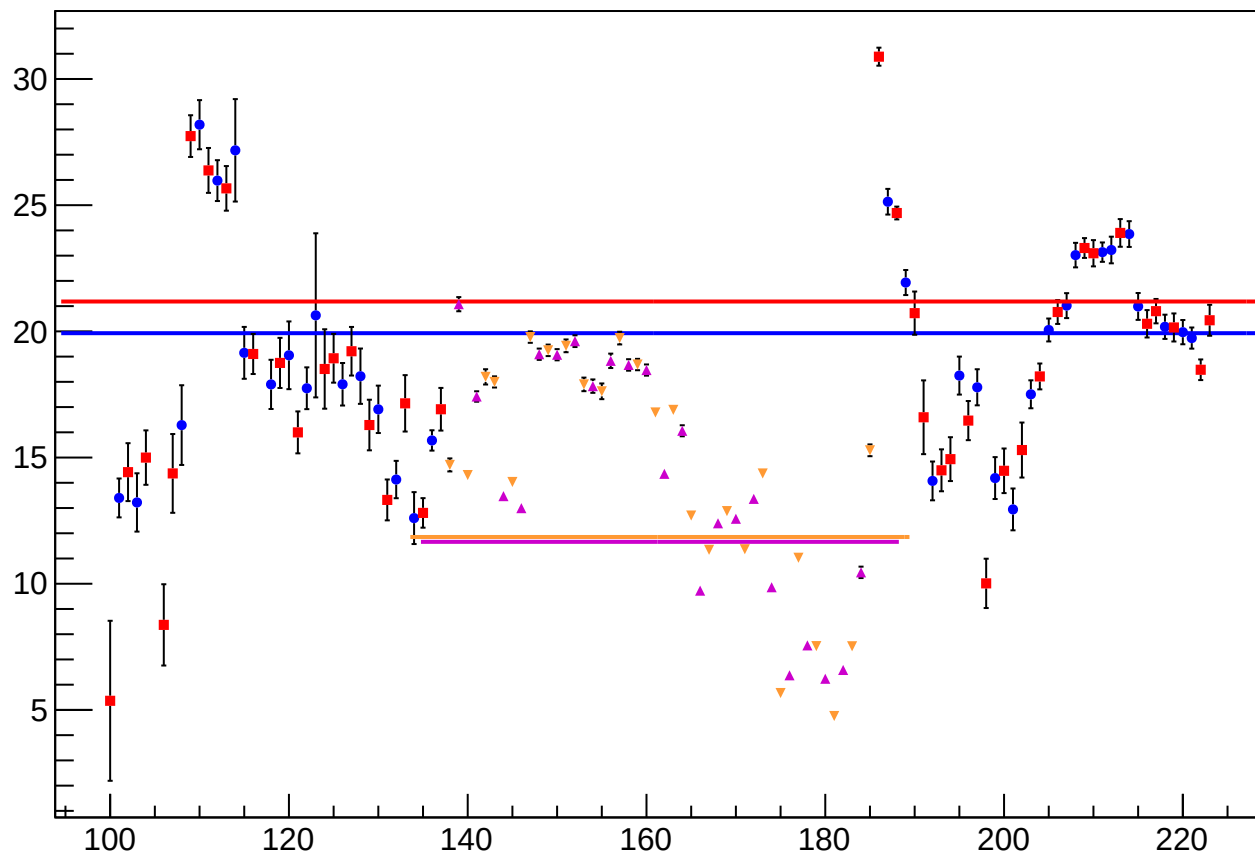
Right: 2.220 ± 0.071 $\chi^2/\text{NDF}: 744.2/73$

In: 0.070 ± 0.027 $\chi^2/\text{NDF}: 5702.0/57$

Out: 0.116 ± 0.027 $\chi^2/\text{NDF}: 7041.6/63$

All: 0.093 ± 0.019 $\chi^2/\text{NDF}: 12745.2/121$

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.928 $\pm$ 0.107 χ^2 /NDF: 1054.8/34

Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24

Right Out: 21.183 $\pm$ 0.103 χ^2 /NDF: 2187.2/38

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

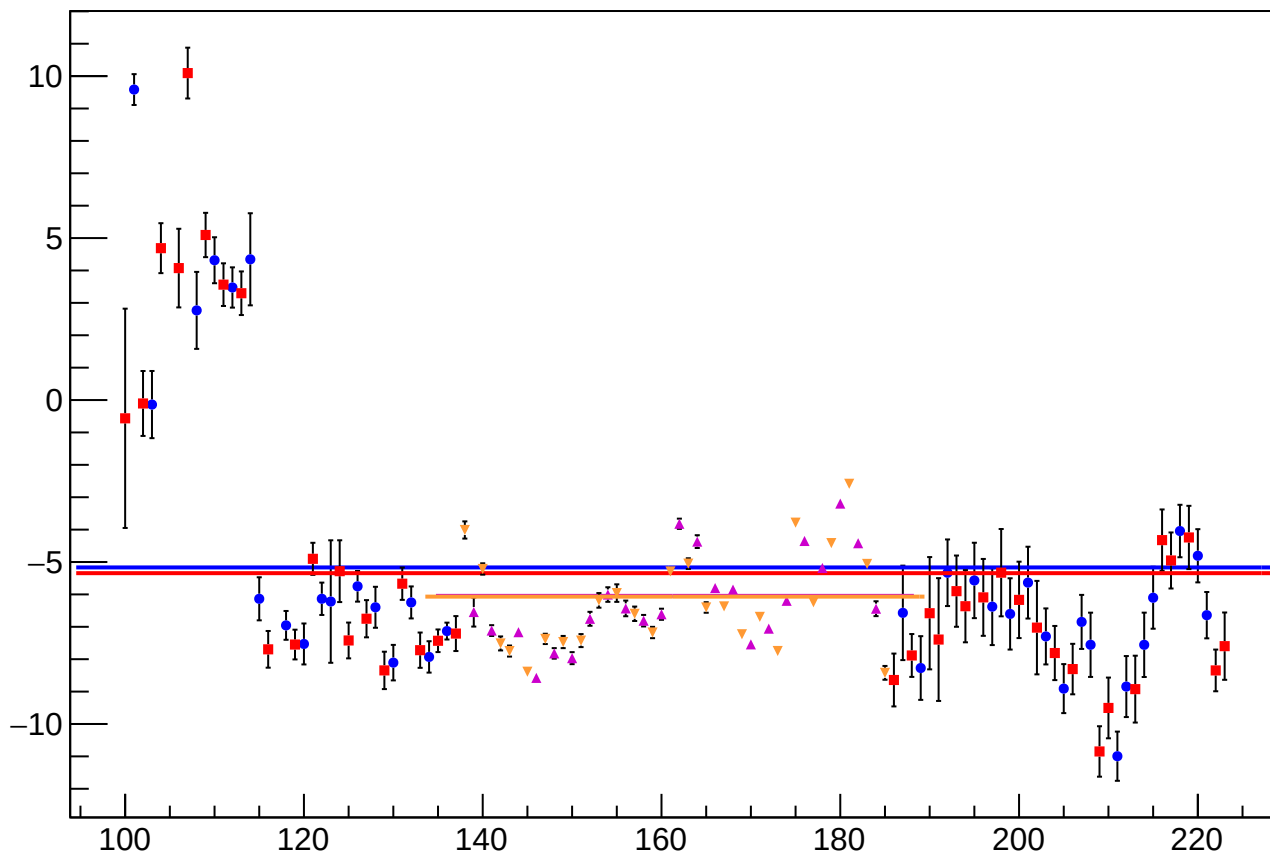
Right: 20.583 $\pm$ 0.074 χ^2 /NDF: 3313.5/73

In: 12.463 $\pm$ 0.033 χ^2 /NDF:23126.8/57

Out: 12.809 $\pm$ 0.033 χ^2 /NDF:28753.4/63

All: 12.639 $\pm$ 0.023 χ^2 /NDF: 51934.6/121

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.167 ± 0.112 χ^2/NDF : 1750.8/34

Left Out: -6.068 ± 0.031 χ^2/NDF : 2671.7/24

Right Out: -5.344 ± 0.115 χ^2/NDF : 1552.2/38

Left In: -6.045 ± 0.032 χ^2/NDF : 2293.7/22

Left: -6.057 ± 0.022 χ^2/NDF : 4965.7/47

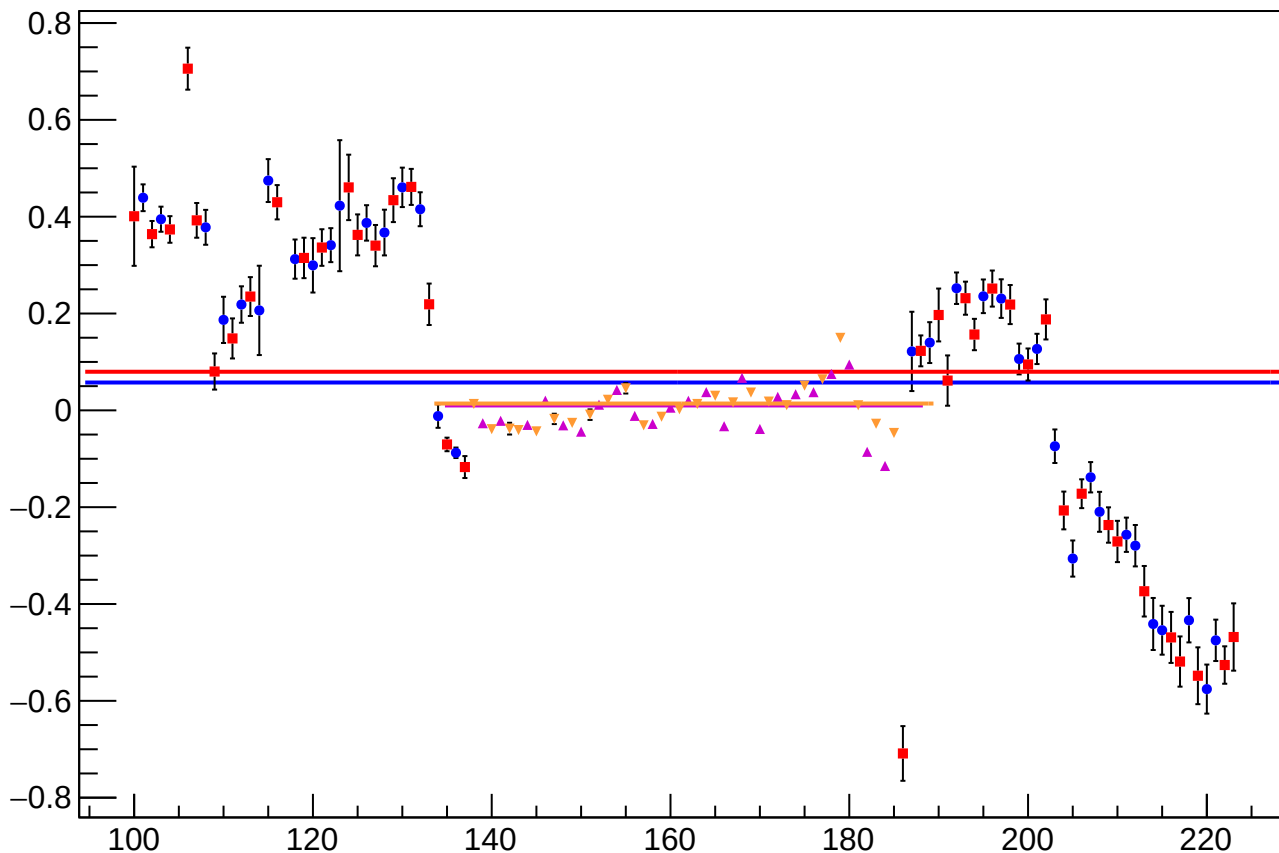
Right: -5.253 ± 0.080 χ^2/NDF : 3304.2/73

In: -5.980 ± 0.031 χ^2/NDF : 4101.3/57

Out: -6.019 ± 0.030 χ^2/NDF : 4260.7/63

All: -6.000 ± 0.021 χ^2/NDF : 8362.9/121

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.058 $\pm$ 0.006 χ^2 /NDF: 2240.8/34

Left Out: 0.014 $\pm$ 0.001 χ^2 /NDF: 956.2/24

Right Out: 0.080 $\pm$ 0.006 χ^2 /NDF: 2466.9/38

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

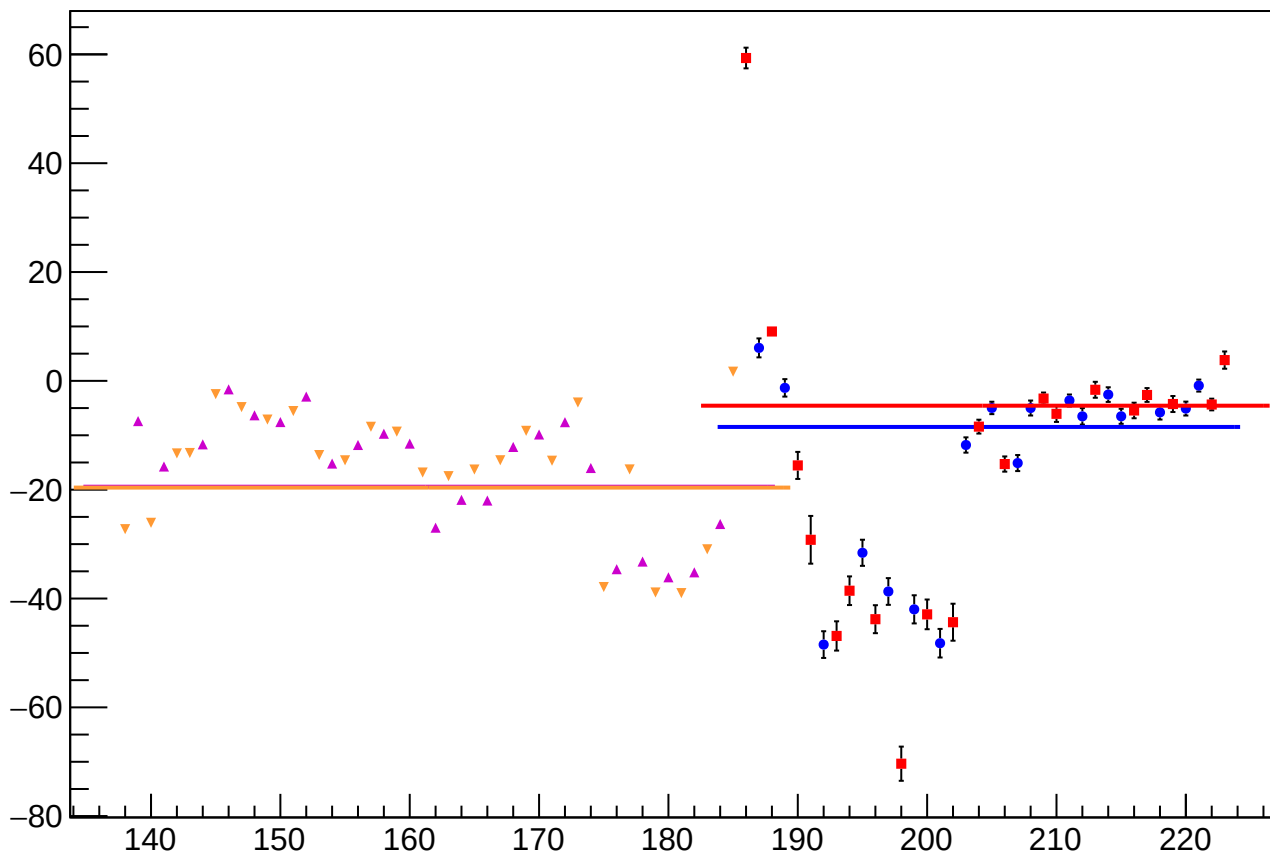
Right: 0.068 $\pm$ 0.004 χ^2 /NDF: 4715.3/73

In: 0.013 $\pm$ 0.001 χ^2 /NDF: 3523.8/57

Out: 0.018 $\pm$ 0.001 χ^2 /NDF: 3545.7/63

All: 0.016 $\pm$ 0.001 χ^2 /NDF: 7075.4/121

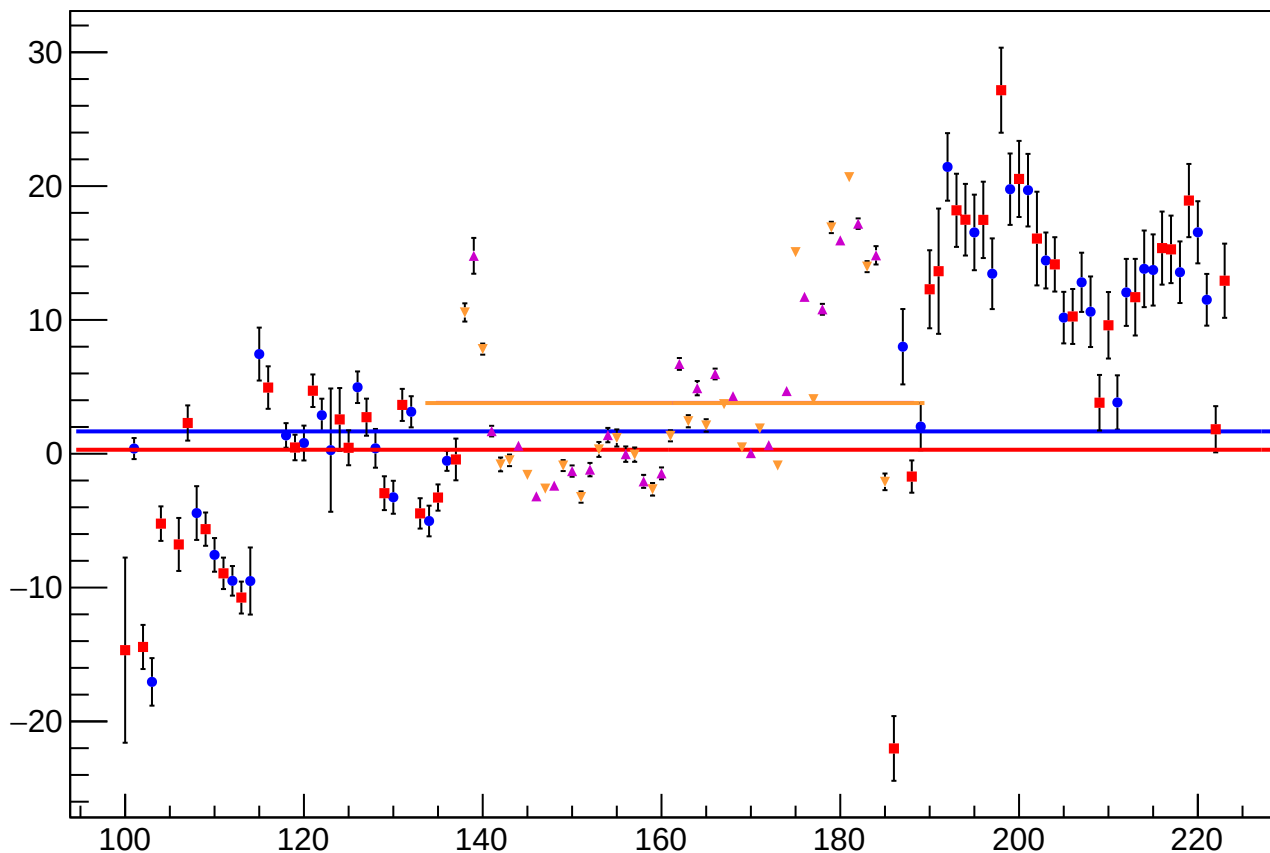
reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -8.467 ± 0.351 χ^2/NDF : 1139.7/17
 Left Out: -19.612 ± 0.103 χ^2/NDF : 15761.3/24
 Right Out: -4.563 ± 0.346 χ^2/NDF : 2965.0/19
 Left In: -19.450 ± 0.105 χ^2/NDF : 12283.1/22

Left: -19.533 ± 0.074 χ^2/NDF : 28045.6/47
 Right: -6.492 ± 0.246 χ^2/NDF : 4167.4/37
 In: -18.545 ± 0.101 χ^2/NDF : 14323.6/40
 Out: -18.386 ± 0.099 χ^2/NDF : 20459.4/44
 All: -18.464 ± 0.071 χ^2/NDF : 34784.3/85

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.671 $\pm$ 0.258 χ^2 /NDF: 826.2/34

Left Out: 3.788 $\pm$ 0.082 χ^2 /NDF:7150.5/24

Right Out: 0.299 $\pm$ 0.262 χ^2 /NDF: 971.7/38

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

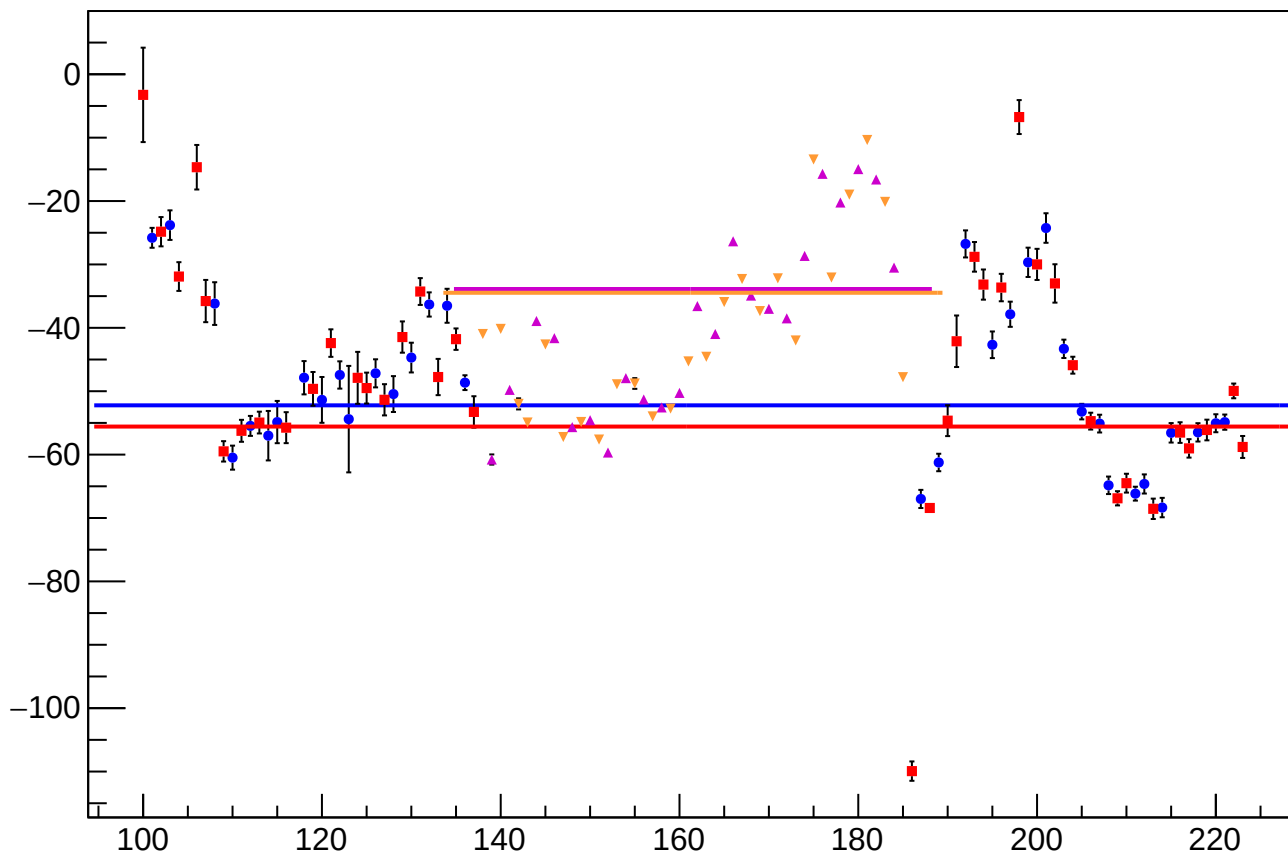
Right: 0.996 $\pm$ 0.184 χ^2 /NDF: 1811.7/73

In: 3.597 $\pm$ 0.080 χ^2 /NDF:6404.5/57

Out: 3.477 $\pm$ 0.078 χ^2 /NDF:8283.2/63

All: 3.536 $\pm$ 0.056 χ^2 /NDF: 14688.8/121

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.228 $\pm$ 0.293 χ^2 /NDF: 1713.0/34

Left Out: -34.471 $\pm$ 0.104 χ^2 /NDF: 20196.3/24

Right Out: -55.577 $\pm$ 0.284 χ^2 /NDF: 3513.4/38

Left In: -33.875 $\pm$ 0.105 χ^2 /NDF: 17638.7/22

Left: -34.177 $\pm$ 0.074 χ^2 /NDF: 37851.2/47

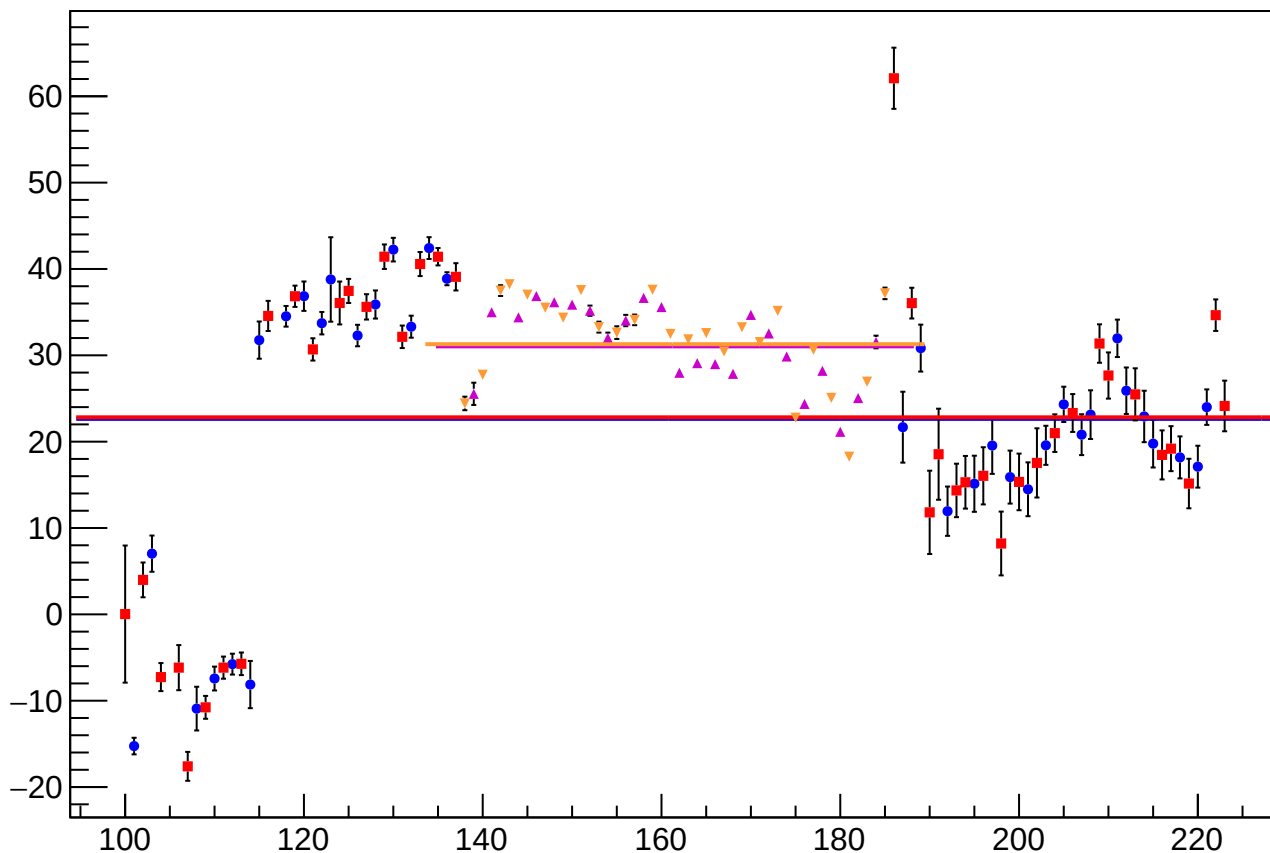
Right: -53.953 $\pm$ 0.204 χ^2 /NDF: 5293.9/73

In: -35.978 $\pm$ 0.099 χ^2 /NDF: 22834.6/57

Out: -36.967 $\pm$ 0.098 χ^2 /NDF: 28583.9/63

All: -36.480 $\pm$ 0.070 χ^2 /NDF: 51469.0/121

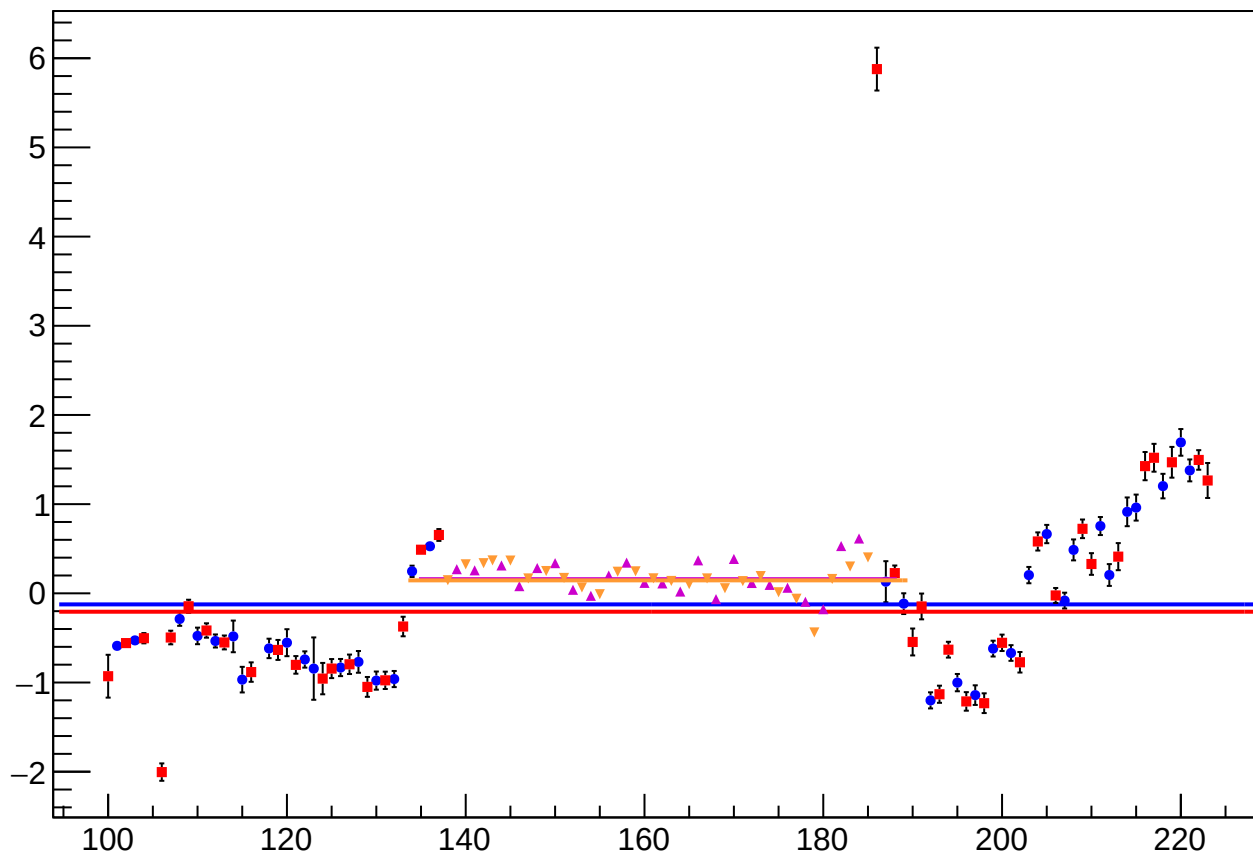
reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.641 $\pm$ 0.290 χ^2 /NDF: 4392.2/34
 Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24
 Right Out: 22.818 $\pm$ 0.297 χ^2 /NDF: 4332.1/38
 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: 22.727 $\pm$ 0.208 χ^2 /NDF: 8724.4/73
 In: 30.238 $\pm$ 0.090 χ^2 /NDF:7630.4/57
 Out: 30.541 $\pm$ 0.088 χ^2 /NDF:8417.3/63
 All: 30.392 $\pm$ 0.063 χ^2 /NDF: 16053.5/121

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.124 ± 0.015 χ^2/NDF : 2054.5/34

Left Out: 0.145 ± 0.004 χ^2/NDF : 1579.6/24

Right Out: -0.206 ± 0.015 χ^2/NDF : 3023.1/38

Left In: 0.159 ± 0.004 χ^2/NDF : 2009.8/22

Left: 0.152 ± 0.003 χ^2/NDF : 3594.3/47

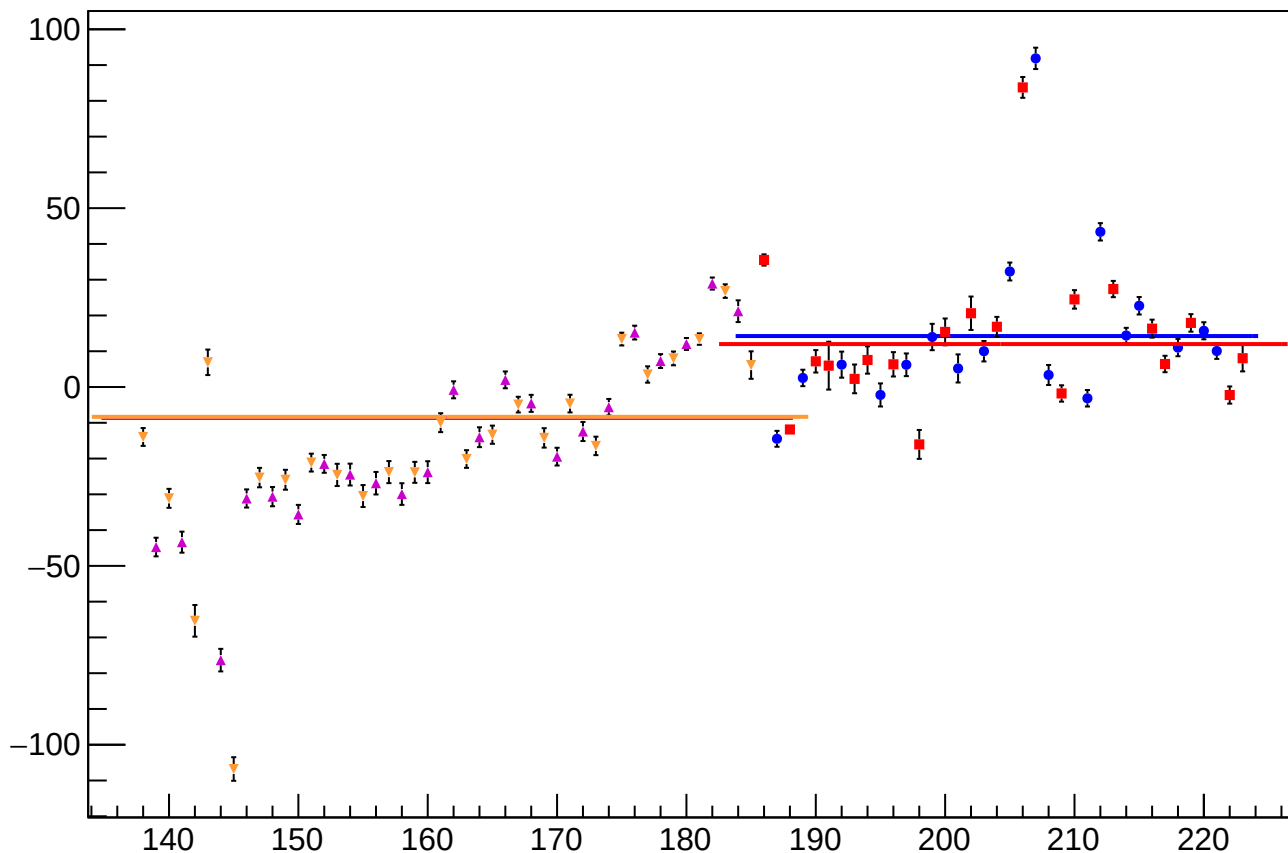
Right: -0.165 ± 0.010 χ^2/NDF : 5093.2/73

In: 0.136 ± 0.004 χ^2/NDF : 4406.9/57

Out: 0.119 ± 0.004 χ^2/NDF : 5120.6/63

All: 0.128 ± 0.003 χ^2/NDF : 9536.5/121

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.247 $\pm$ 0.618 χ^2 /NDF: 1198.9/17

Left Out: -8.332 $\pm$ 0.500 χ^2 /NDF: 2226.2/24

Right Out: 12.007 $\pm$ 0.566 χ^2 /NDF: 1427.6/19

Left In: -8.652 $\pm$ 0.507 χ^2 /NDF: 2223.8/22

Left: -8.490 $\pm$ 0.356 χ^2 /NDF: 4450.2/47

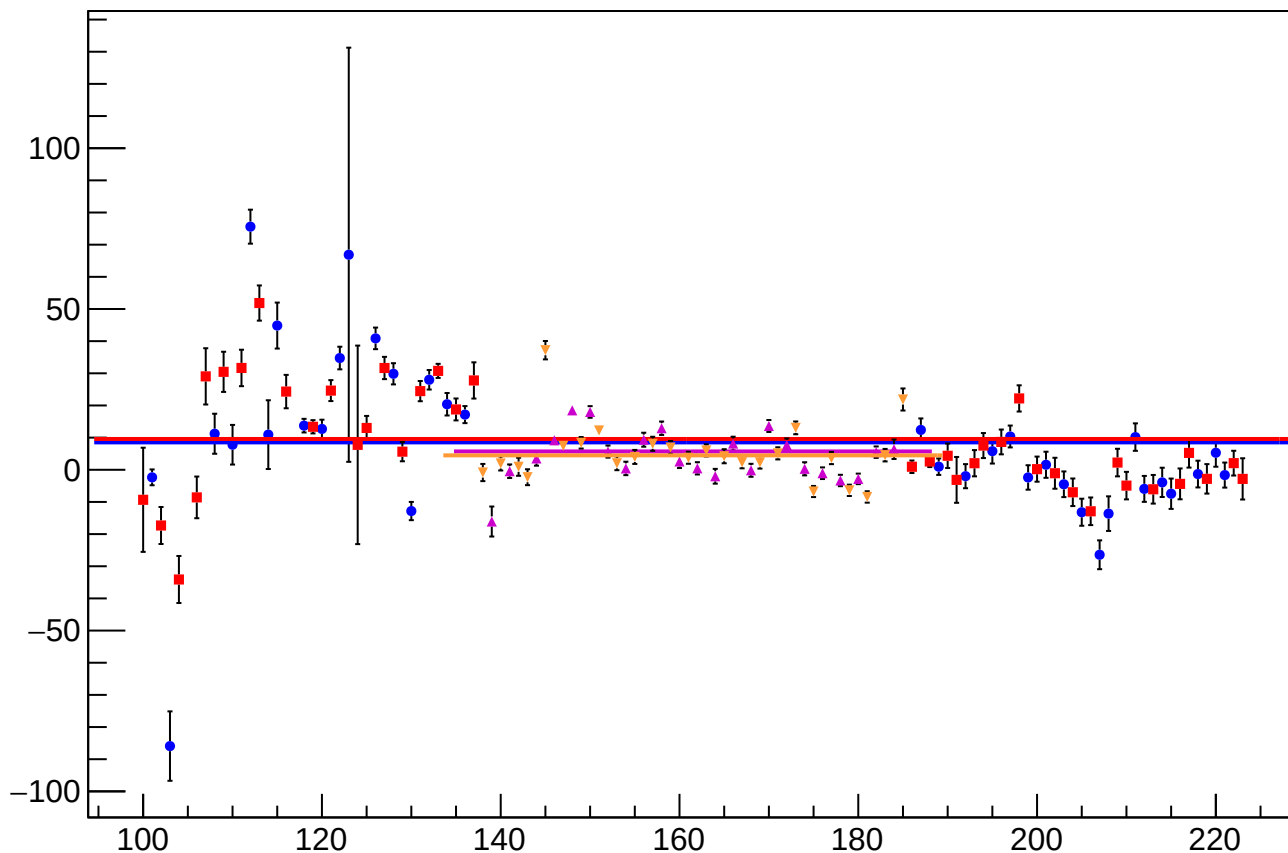
Right: 13.029 $\pm$ 0.417 χ^2 /NDF: 2633.6/37

In: 0.562 $\pm$ 0.392 χ^2 /NDF: 4242.9/40

Out: 0.572 $\pm$ 0.375 χ^2 /NDF: 4379.4/44

All: 0.568 $\pm$ 0.271 χ^2 /NDF: 8622.3/85

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.519 ± 0.629 χ^2/NDF : 791.9/34

Left Out: 4.484 ± 0.392 χ^2/NDF : 371.9/24

Right Out: 9.583 ± 0.599 χ^2/NDF : 525.7/38

Left In: 5.705 ± 0.404 χ^2/NDF : 324.1/22

Left: 5.076 ± 0.281 χ^2/NDF : 700.6/47

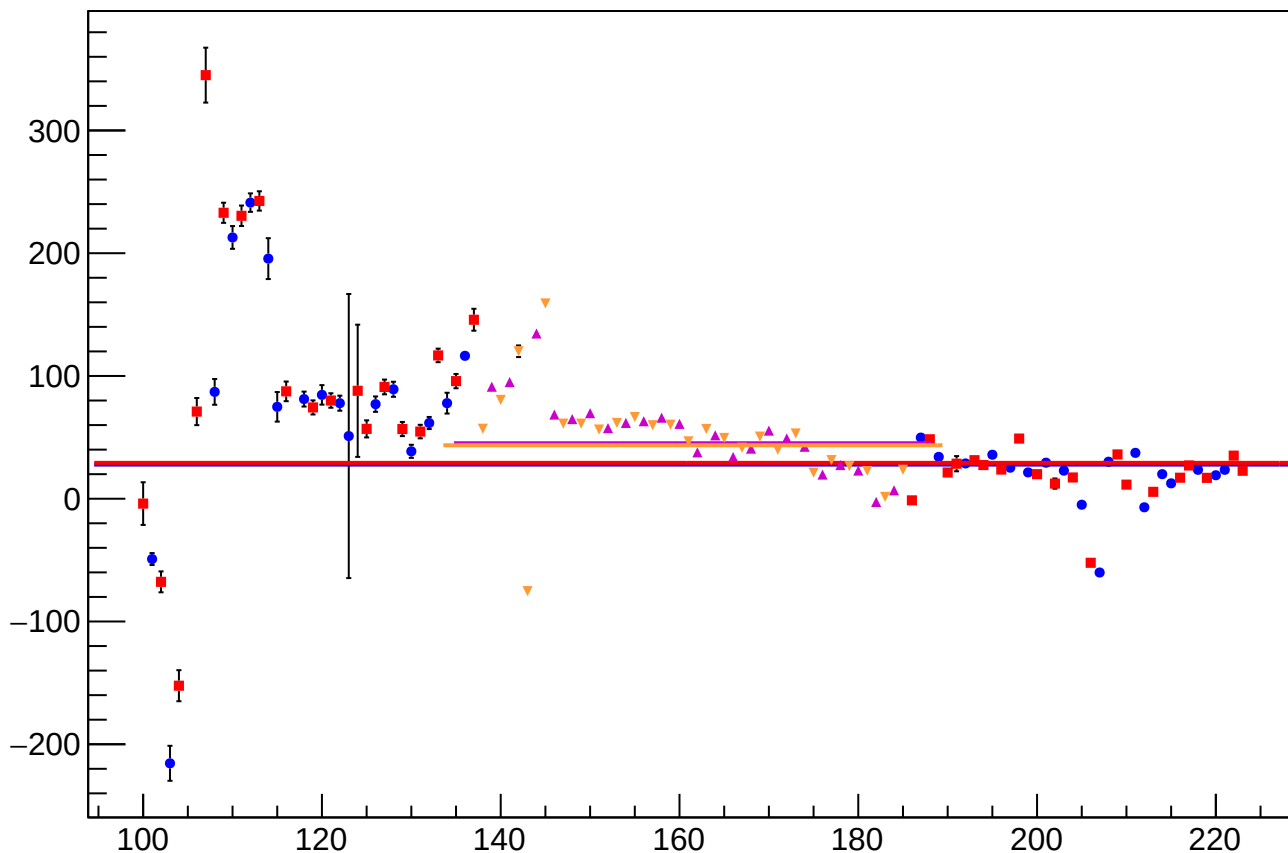
Right: 9.077 ± 0.434 χ^2/NDF : 1319.1/73

In: 6.527 ± 0.340 χ^2/NDF : 1130.2/57

Out: 6.014 ± 0.328 χ^2/NDF : 948.3/63

All: 6.262 ± 0.236 χ^2/NDF : 2079.6/121

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.825+/-0.566 χ^2 /NDF: 4365.4/34

Left Out: 43.524+/-0.498 χ^2 /NDF:3830.7/24

Right Out: 29.224+/-0.501 χ^2 /NDF: 5495.1/38

Left In: 45.211+/-0.504 χ^2 /NDF:3048.5/22

Left: 44.358+/-0.354 χ^2 /NDF: 6884.8/47

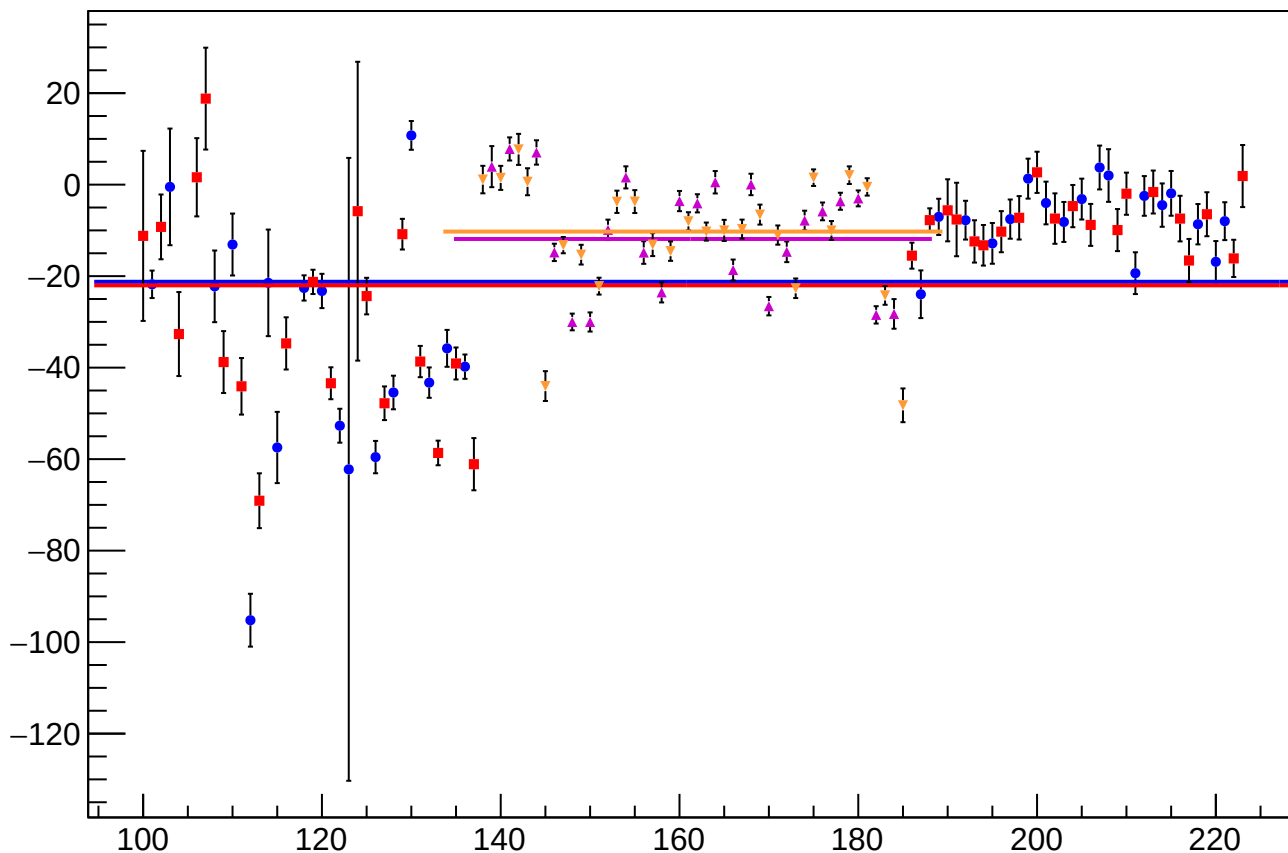
Right: 28.610+/-0.375 χ^2 /NDF: 9863.9/73

In: 37.522+/-0.377 χ^2 /NDF:7939.6/57

Out: 36.404+/-0.353 χ^2 /NDF:9735.6/63

All: 36.927+/-0.258 χ^2 /NDF: 17679.9/121

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.233 ± 0.723 $\chi^2/\text{NDF}: 845.3/34$

Left Out: -10.257 ± 0.444 $\chi^2/\text{NDF}: 552.4/24$

Right Out: -22.013 ± 0.711 $\chi^2/\text{NDF}: 698.5/38$

Left In: -11.877 ± 0.456 $\chi^2/\text{NDF}: 666.2/22$

Left: -11.046 ± 0.318 $\chi^2/\text{NDF}: 1225.1/47$

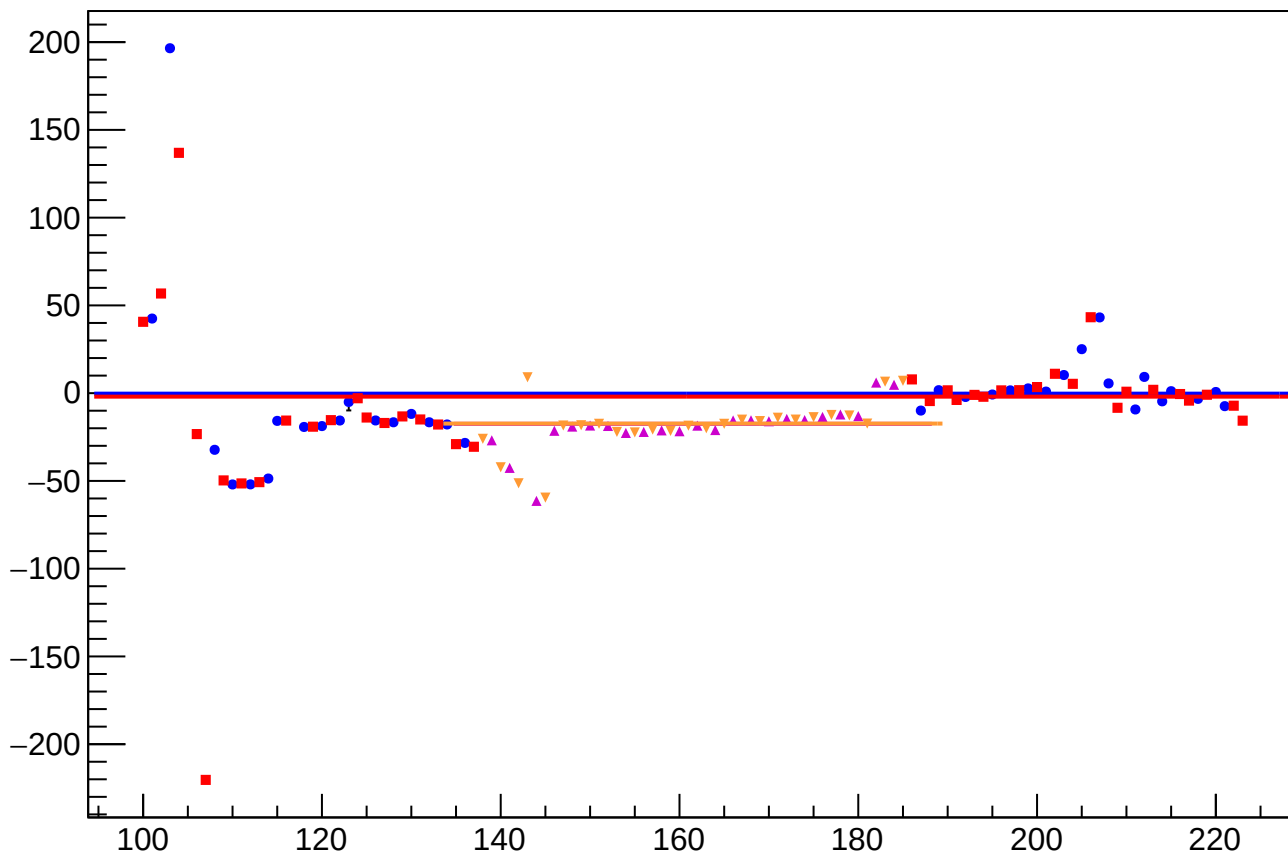
Right: -21.630 ± 0.507 $\chi^2/\text{NDF}: 1544.4/73$

In: -14.542 ± 0.386 $\chi^2/\text{NDF}: 1631.4/57$

Out: -13.559 ± 0.377 $\chi^2/\text{NDF}: 1447.6/63$

All: -14.039 ± 0.269 $\chi^2/\text{NDF}: 3082.4/121$

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.285 ± 0.035 χ^2/NDF : 679321.9/34

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.984 ± 0.034 χ^2/NDF : 673813.1/38

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

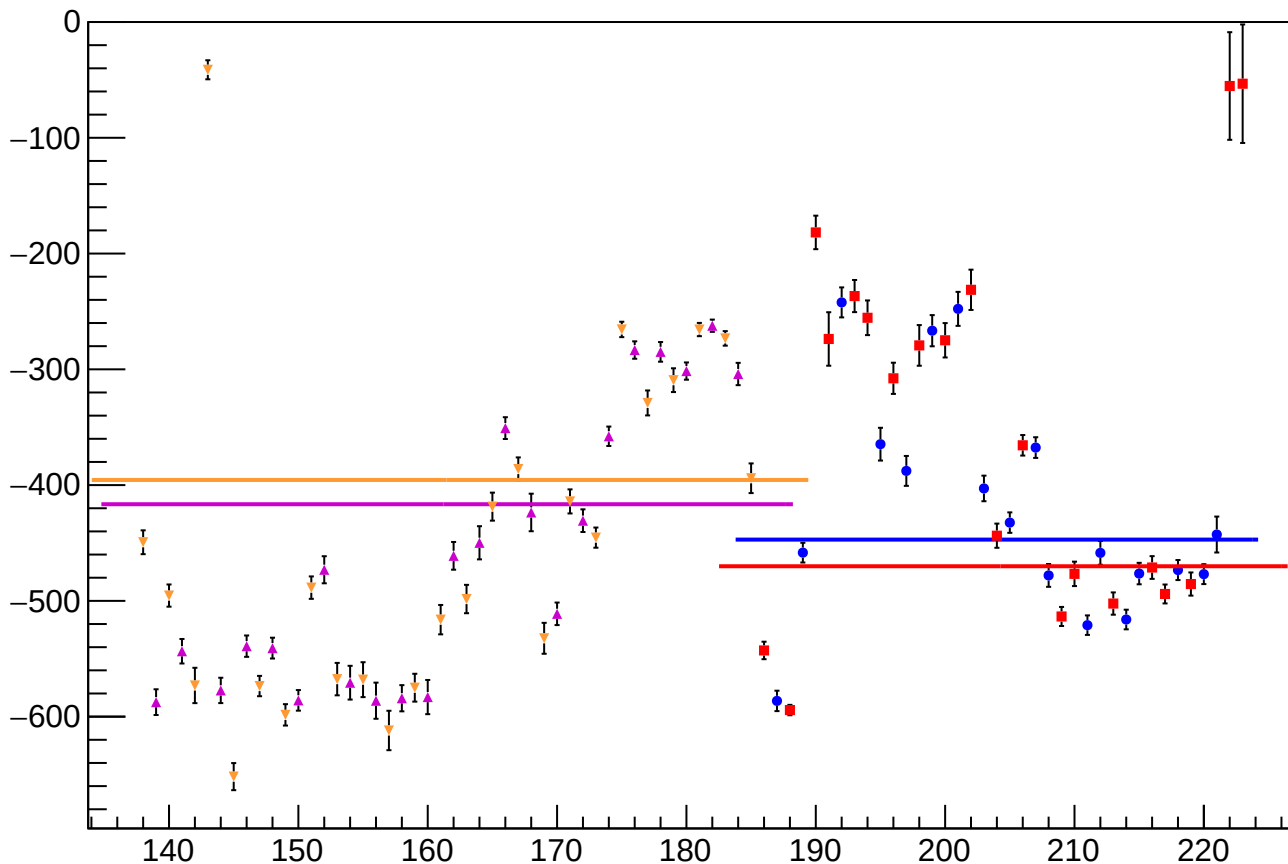
Right: -1.153 ± 0.024 χ^2/NDF : 1354369.5/73

In: -12.957 ± 0.018 χ^2/NDF : 1121030.5/57

Out: -13.236 ± 0.017 χ^2/NDF : 1150120.1/63

All: -13.099 ± 0.012 χ^2/NDF : 2271275.6/121

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -447.069 ± 2.372 $\chi^2/\text{NDF}: 1204.0/17$

Left Out: -395.547 ± 1.953 $\chi^2/\text{NDF}: 5946.5/24$

Right Out: -470.096 ± 2.278 $\chi^2/\text{NDF}: 2782.5/19$

Left In: -416.521 ± 2.005 $\chi^2/\text{NDF}: 3917.0/22$

Left: -405.762 ± 1.399 $\chi^2/\text{NDF}: 9919.7/47$

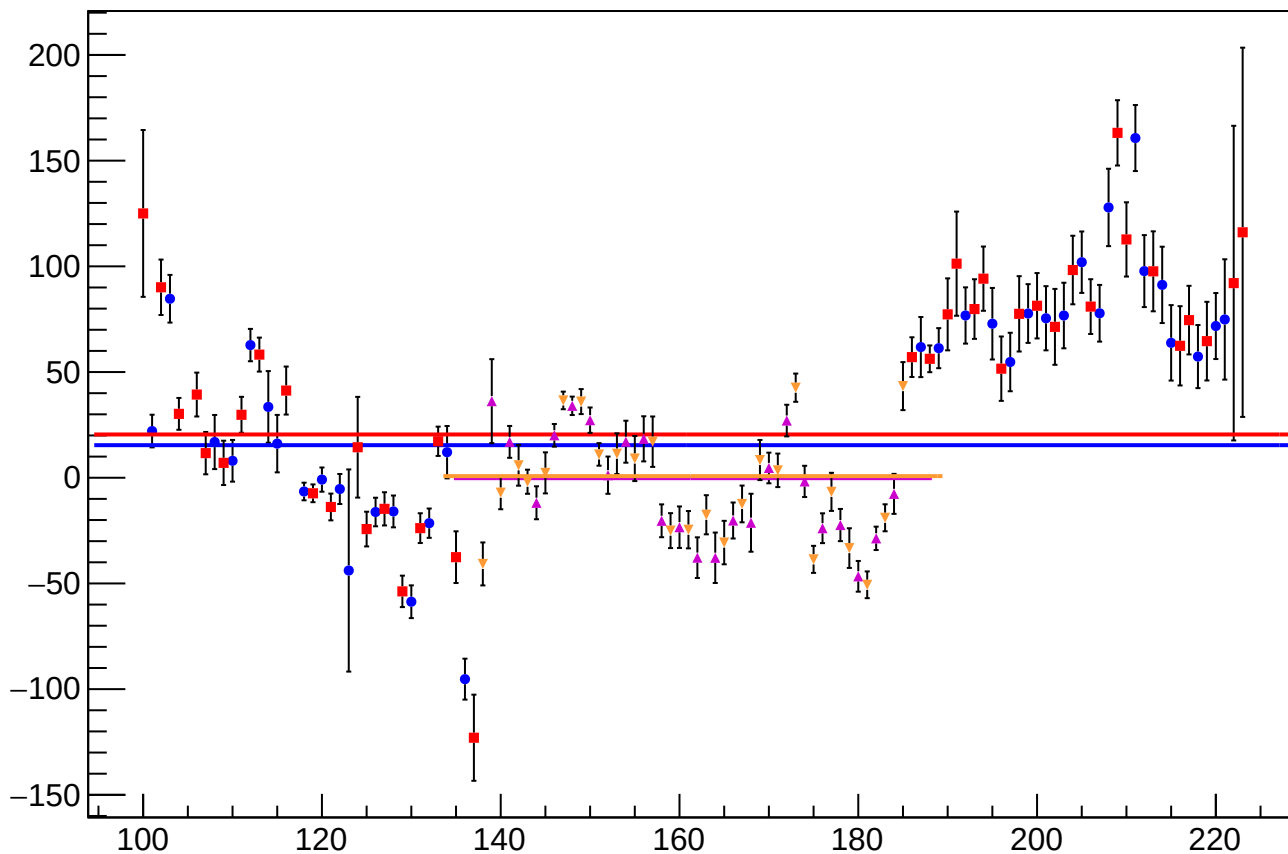
Right: -459.048 ± 1.643 $\chi^2/\text{NDF}: 4035.5/37$

In: -429.250 ± 1.531 $\chi^2/\text{NDF}: 5217.7/40$

Out: -427.140 ± 1.483 $\chi^2/\text{NDF}: 9346.3/44$

All: -428.161 ± 1.065 $\chi^2/\text{NDF}: 14565.0/85$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.410 ± 1.689 $\chi^2/\text{NDF}: 795.4/34$

Left Out: 0.767 ± 1.503 $\chi^2/\text{NDF}: 350.1/24$

Right Out: 20.470 ± 1.650 $\chi^2/\text{NDF}: 750.4/38$

Left In: -0.202 ± 1.575 $\chi^2/\text{NDF}: 260.8/22$

Left: 0.305 ± 1.087 $\chi^2/\text{NDF}: 611.1/47$

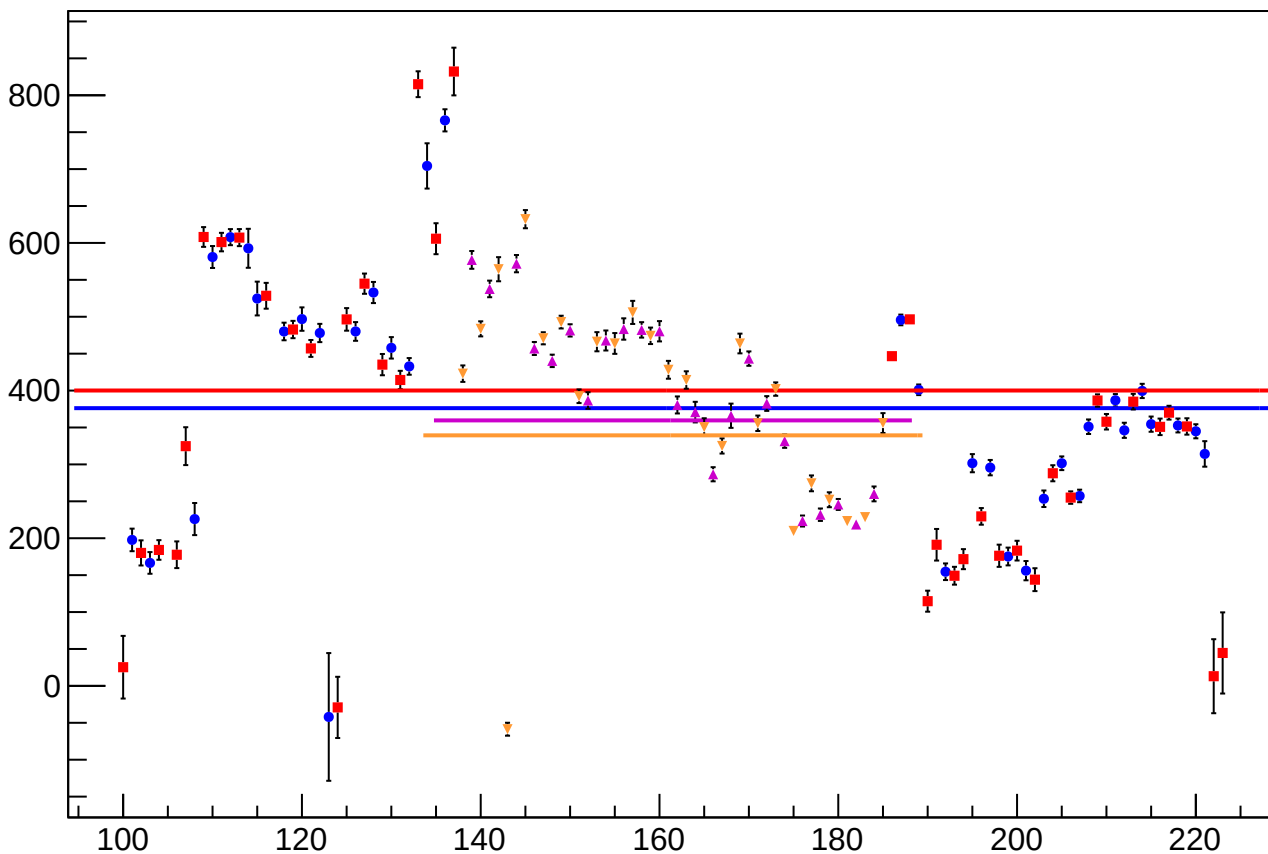
Right: 18.000 ± 1.180 $\chi^2/\text{NDF}: 1550.4/73$

In: 7.059 ± 1.152 $\chi^2/\text{NDF}: 1101.9/57$

Out: 9.702 ± 1.111 $\chi^2/\text{NDF}: 1178.4/63$

All: 8.429 ± 0.800 $\chi^2/\text{NDF}: 2283.0/121$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 376.184 $\pm$ 1.953 χ^2 /NDF: 4167.7/34

Left Out: 339.355 $\pm$ 1.963 χ^2 /NDF:5502.5/24

Right Out: 400.098 $\pm$ 1.800 χ^2 /NDF: 6266.7/38

Left In: 359.609 $\pm$ 2.003 χ^2 /NDF:3398.5/22

Left: 349.278 $\pm$ 1.402 χ^2 /NDF: 8953.2/47

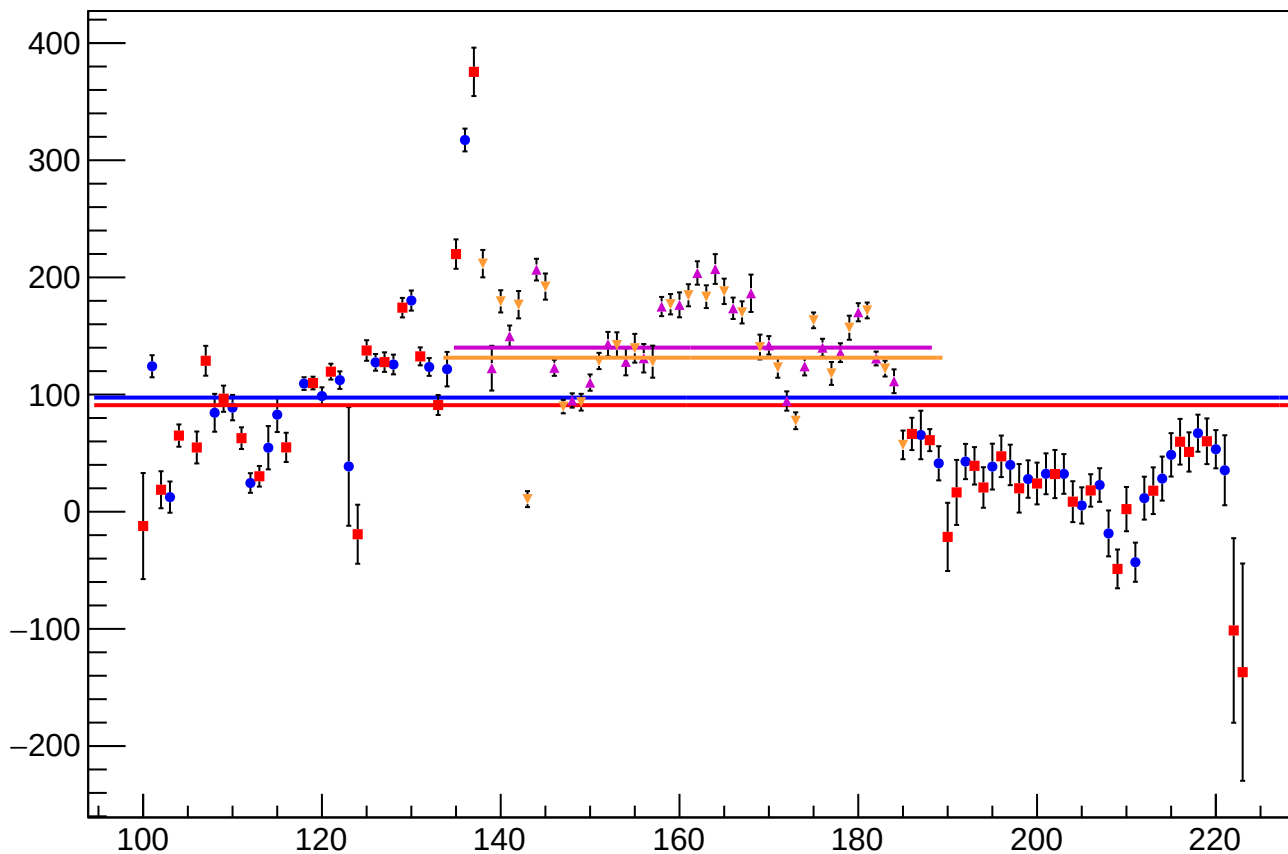
Right: 389.116 $\pm$ 1.324 χ^2 /NDF: 10515.5/73

In: 368.103 $\pm$ 1.398 χ^2 /NDF:7601.3/57

Out: 372.346 $\pm$ 1.327 χ^2 /NDF:12289.4/63

All: 370.336 $\pm$ 0.962 χ^2 /NDF: 19895.6/121

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 97.420+/-1.954 χ^2 /NDF: 1114.7/34

Left Out: 131.464+/-1.728 χ^2 /NDF:809.3/24

Right Out: 90.942+/-1.929 χ^2 /NDF: 918.3/38

Left In: 140.069+/-1.795 χ^2 /NDF:316.5/22

Left: 135.602+/-1.245 χ^2 /NDF: 1137.8/47

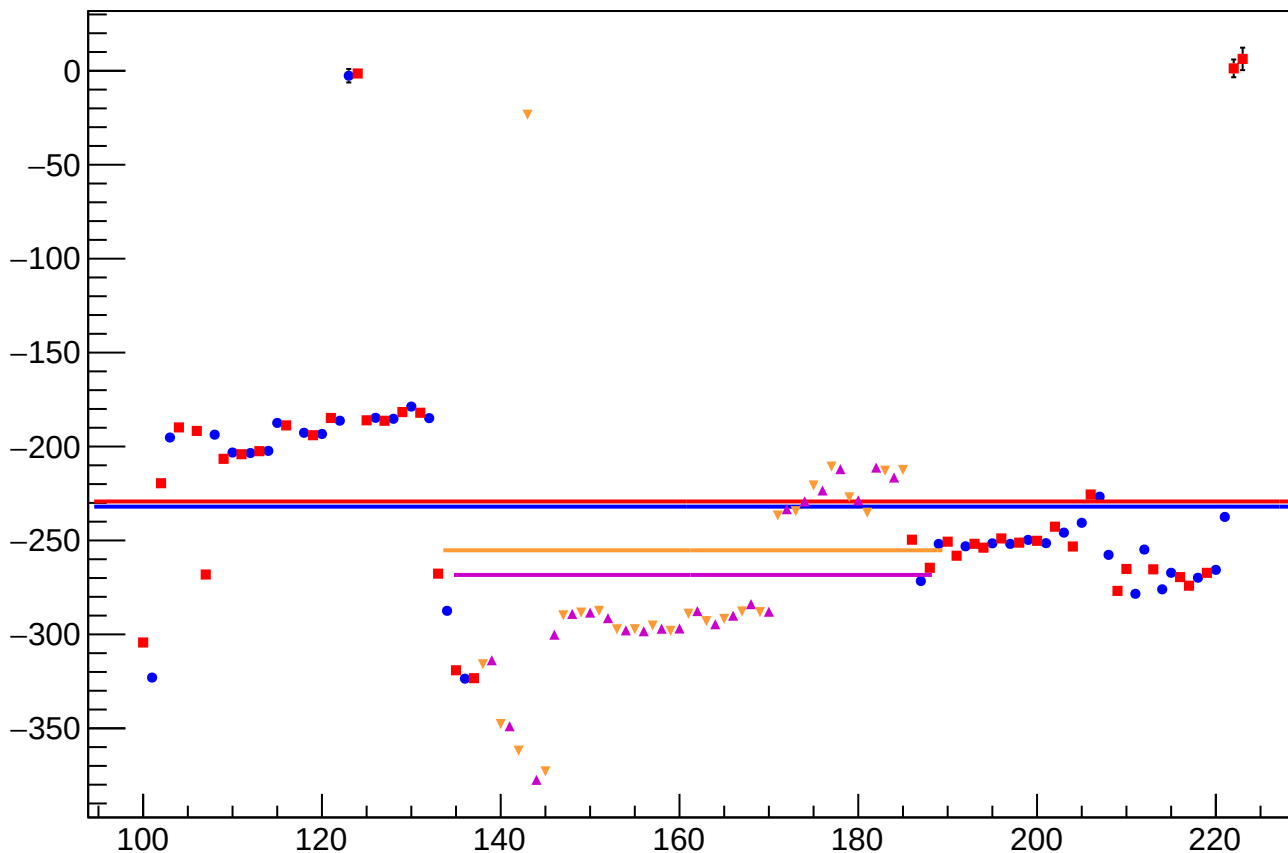
Right: 94.140+/-1.373 χ^2 /NDF: 2038.5/73

In: 120.548+/-1.322 χ^2 /NDF:1689.6/57

Out: 113.427+/-1.287 χ^2 /NDF:1972.5/63

All: 116.892+/-0.922 χ^2 /NDF: 3677.0/121

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -232.001 ± 0.104 $\chi^2/\text{NDF}: 179620.0/34$

Left Out: -255.232 ± 0.082 $\chi^2/\text{NDF}: 728016.7/24$

Right Out: -229.246 ± 0.100 $\chi^2/\text{NDF}: 164982.5/38$

Left In: -268.353 ± 0.084 $\chi^2/\text{NDF}: 262479.3/22$

Left: -261.661 ± 0.059 $\chi^2/\text{NDF}: 1003051.2/47$

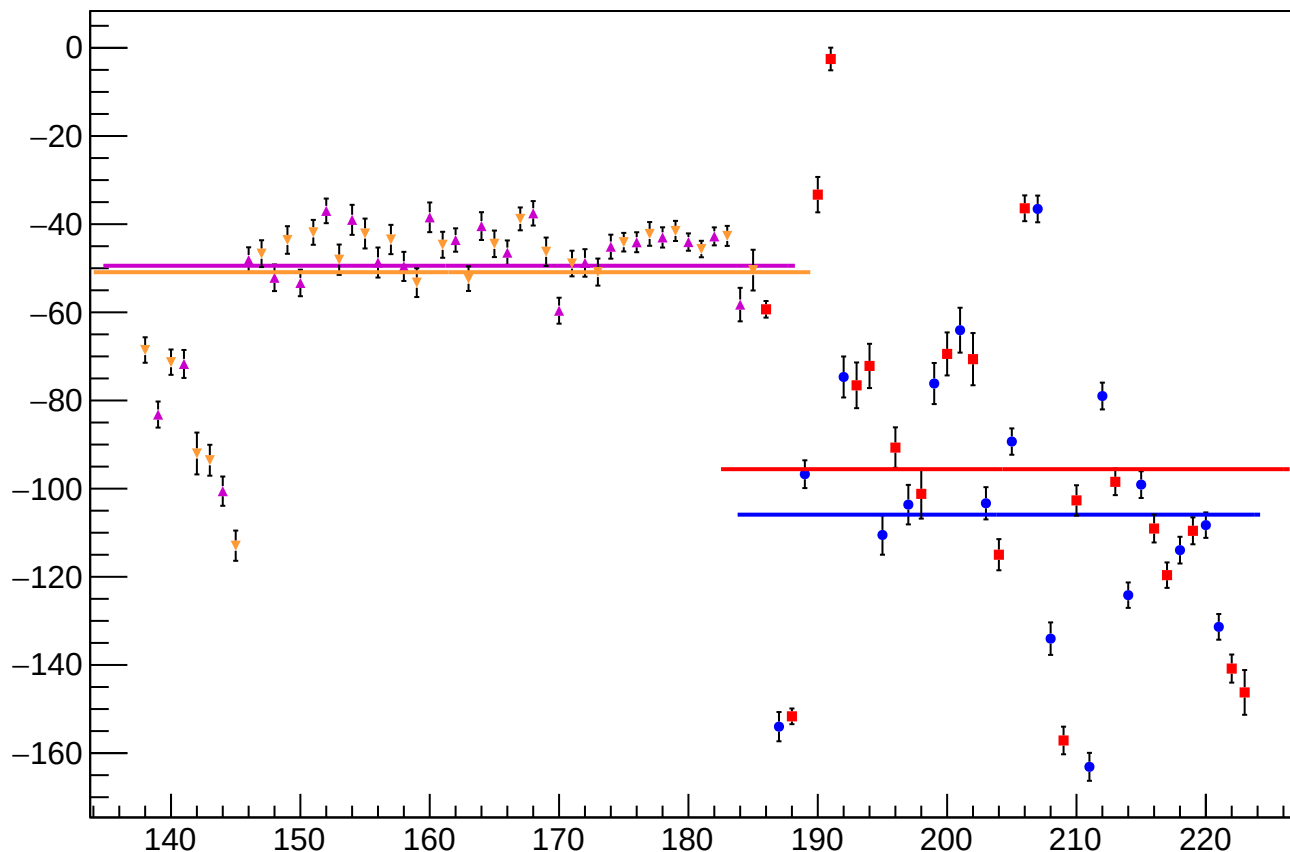
Right: -230.571 ± 0.072 $\chi^2/\text{NDF}: 344967.6/73$

In: -254.056 ± 0.065 $\chi^2/\text{NDF}: 516419.7/57$

Out: -244.787 ± 0.063 $\chi^2/\text{NDF}: 933401.6/63$

All: -249.296 ± 0.045 $\chi^2/\text{NDF}: 1460222.0/12$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -105.900 ± 0.797 $\chi^2/\text{NDF}: 1519.8/17$

Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$

Right Out: -95.584 ± 0.708 $\chi^2/\text{NDF}: 4238.1/19$

Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$

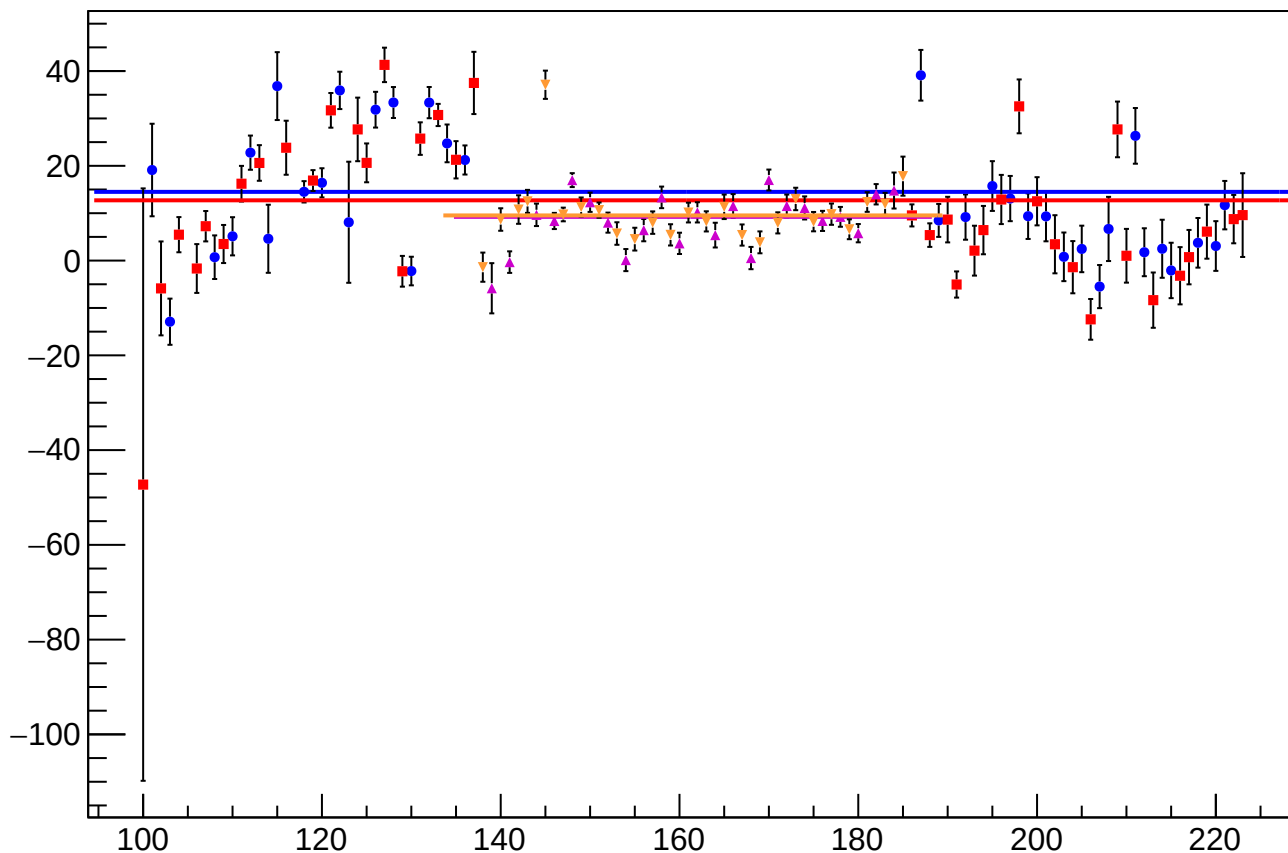
Right: -100.136 ± 0.529 $\chi^2/\text{NDF}: 5851.6/37$

In: -69.160 ± 0.471 $\chi^2/\text{NDF}: 5330.4/40$

Out: -68.571 ± 0.445 $\chi^2/\text{NDF}: 7406.6/44$

All: -68.849 ± 0.324 $\chi^2/\text{NDF}: 12737.9/85$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.503+/-0.727 χ^2 /NDF: 315.4/34

Left Out: 9.530+/-0.446 χ^2 /NDF:134.4/24

Right Out: 12.719+/-0.648 χ^2 /NDF: 398.8/38

Left In: 9.231+/-0.462 χ^2 /NDF:124.0/22

Left: 9.386+/-0.321 χ^2 /NDF: 258.5/47

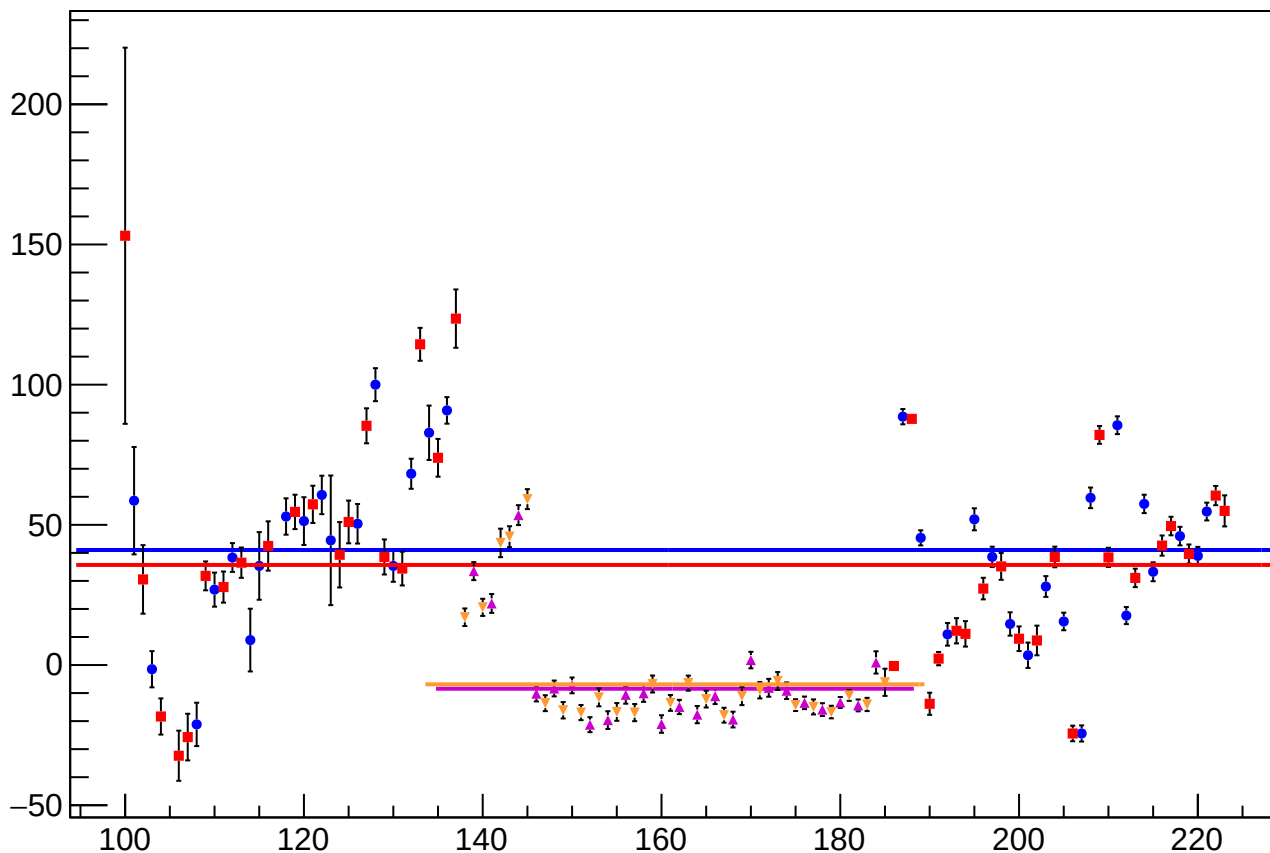
Right: 13.508+/-0.484 χ^2 /NDF: 717.5/73

In: 10.745+/-0.390 χ^2 /NDF:476.8/57

Out: 10.556+/-0.367 χ^2 /NDF:549.6/63

All: 10.645+/-0.267 χ^2 /NDF: 1026.5/121

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 41.032 ± 0.711 χ^2/NDF : 1800.6/34

Left Out: -6.888 ± 0.571 χ^2/NDF : 914.2/24

Right Out: 35.698 ± 0.608 χ^2/NDF : 3693.4/38

Left In: -8.451 ± 0.580 χ^2/NDF : 688.9/22

Left: -7.658 ± 0.407 χ^2/NDF : 1606.8/47

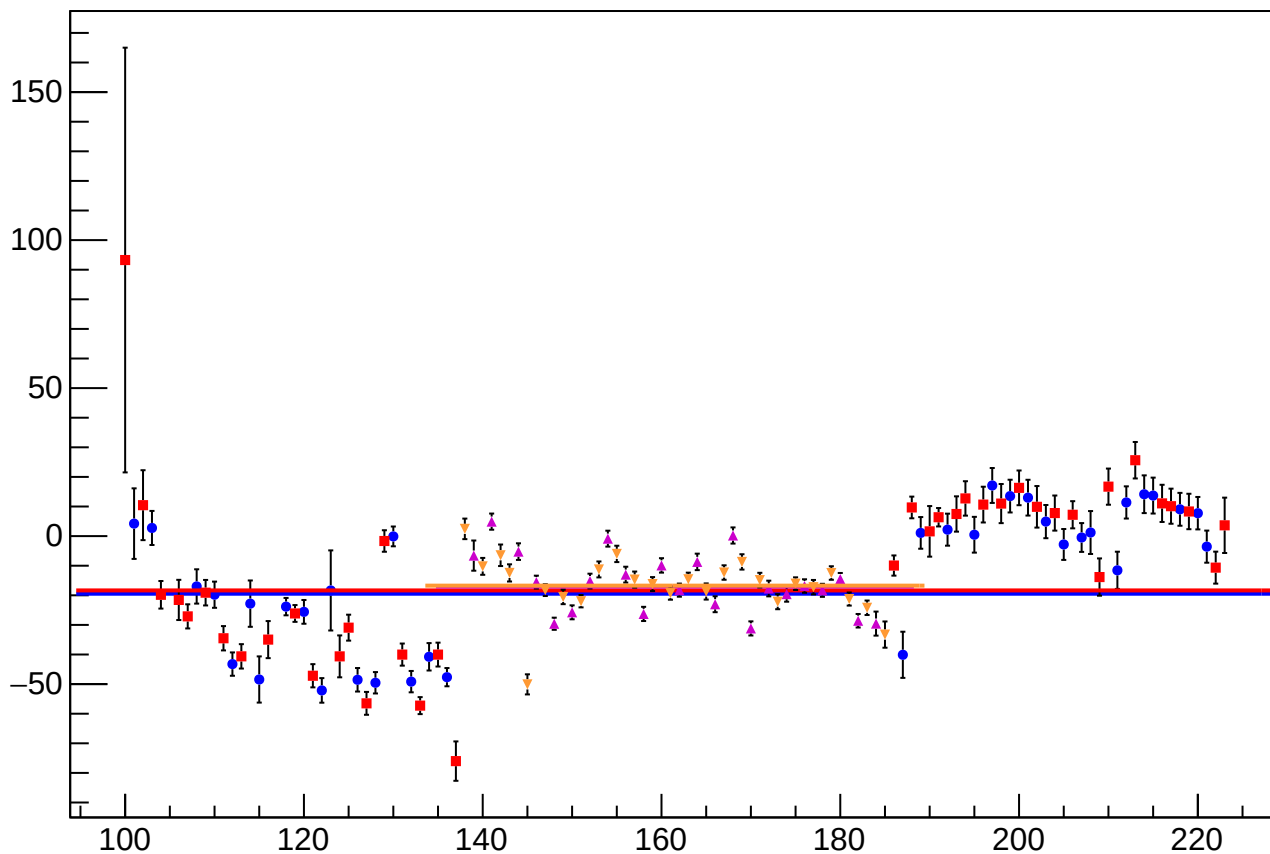
Right: 37.954 ± 0.462 χ^2/NDF : 5526.5/73

In: 11.323 ± 0.449 χ^2/NDF : 5400.0/57

Out: 13.056 ± 0.416 χ^2/NDF : 7212.8/63

All: 12.255 ± 0.305 χ^2/NDF : 12620.8/121

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -19.461 ± 0.828 $\chi^2/\text{NDF}: 820.0/34$

Left Out: -16.733 ± 0.507 $\chi^2/\text{NDF}: 223.3/24$

Right Out: -18.348 ± 0.760 $\chi^2/\text{NDF}: 1066.5/38$

Left In: -17.023 ± 0.522 $\chi^2/\text{NDF}: 327.6/22$

Left: -16.874 ± 0.364 $\chi^2/\text{NDF}: 551.0/47$

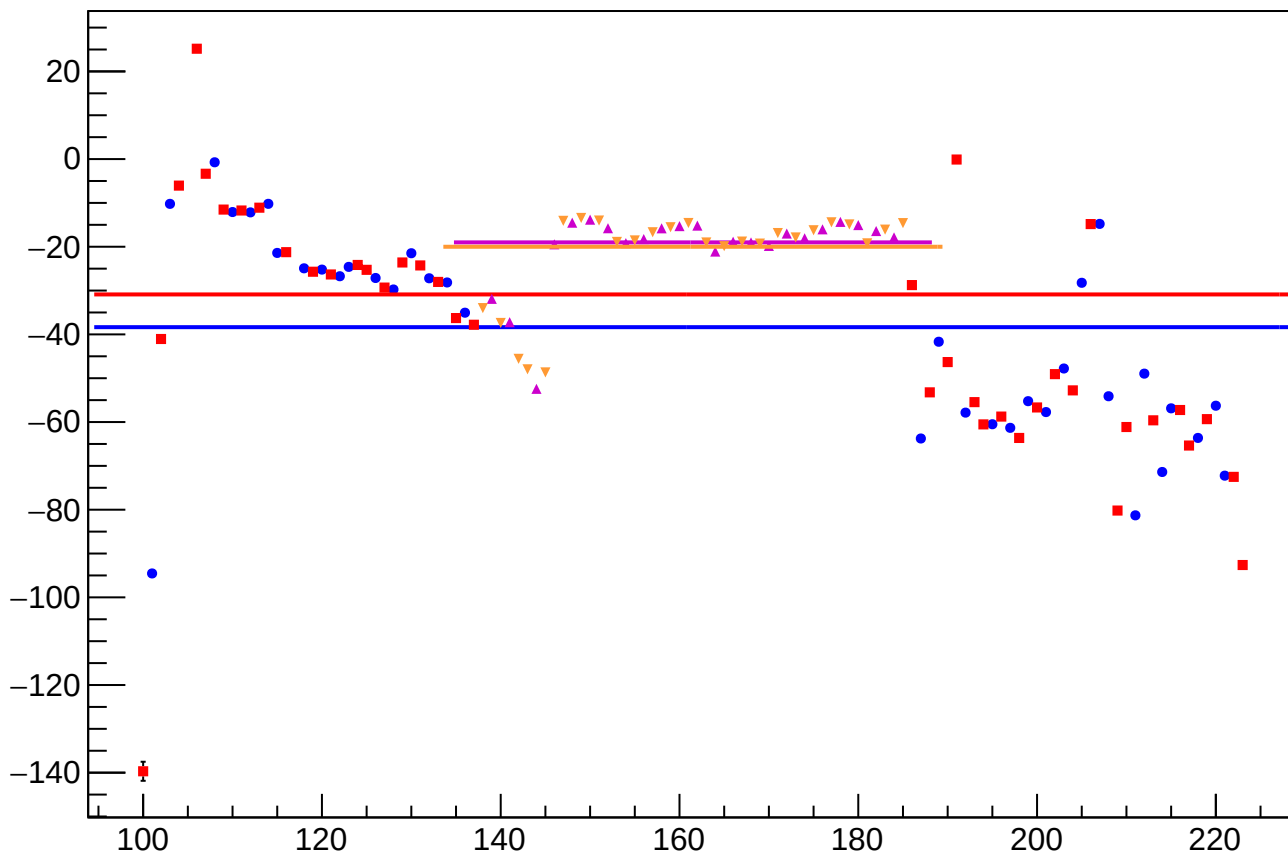
Right: -18.857 ± 0.560 $\chi^2/\text{NDF}: 1887.4/73$

In: -17.716 ± 0.442 $\chi^2/\text{NDF}: 1153.7/57$

Out: -17.230 ± 0.422 $\chi^2/\text{NDF}: 1292.9/63$

All: -17.462 ± 0.305 $\chi^2/\text{NDF}: 2447.3/121$

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -38.352 $\pm$ 0.040 χ^2 /NDF: 279928.3/34

Left Out: -20.006 $\pm$ 0.023 χ^2 /NDF: 145623.8/24

Right Out: -30.884 $\pm$ 0.035 χ^2 /NDF: 519222.6/38

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

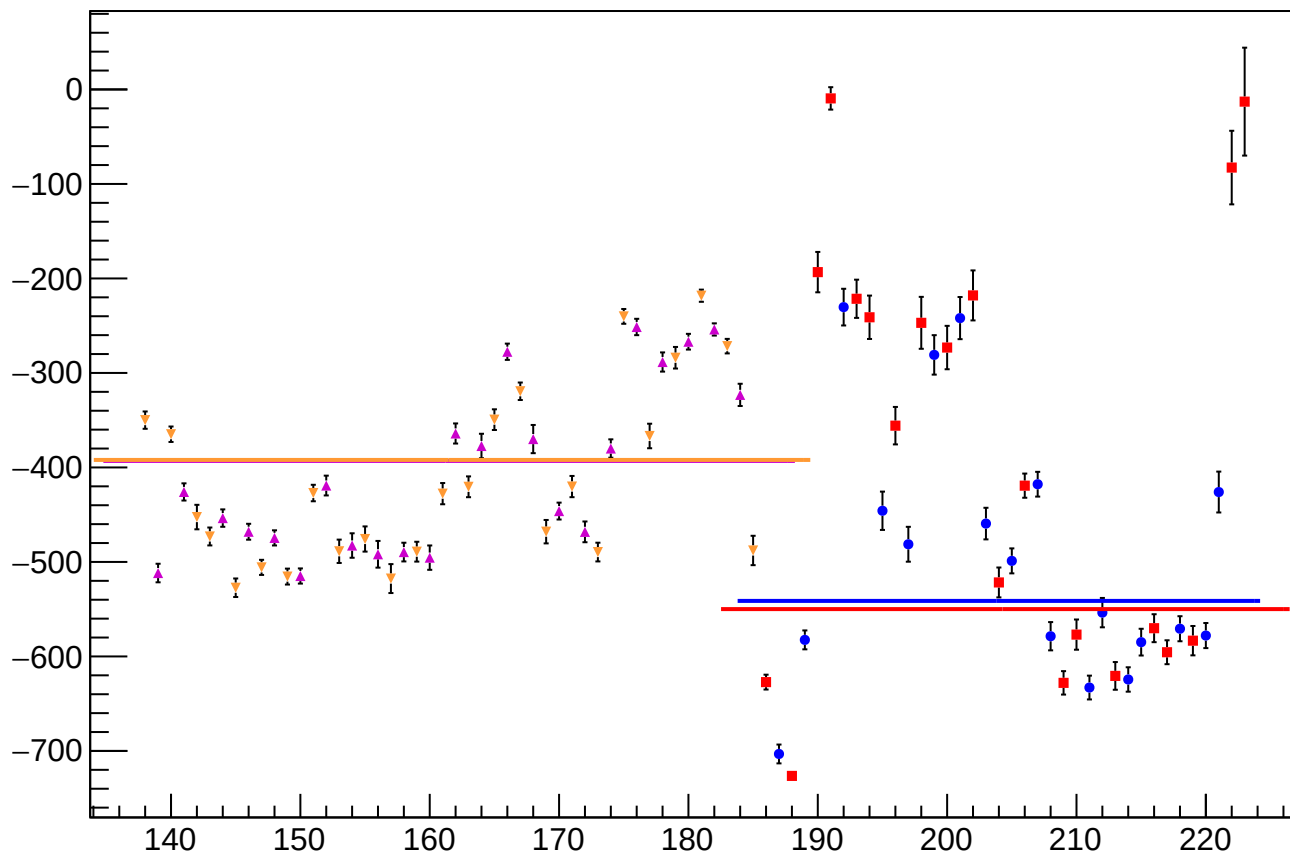
Right: -34.178 $\pm$ 0.026 χ^2 /NDF: 818861.5/73

In: -24.069 $\pm$ 0.020 χ^2 /NDF: 545529.4/57

Out: -23.302 $\pm$ 0.019 χ^2 /NDF: 730906.5/63

All: -23.669 $\pm$ 0.014 χ^2 /NDF: 1277179.5/121

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -541.229+/-3.392 χ^2 /NDF: 1180.8/17

Left Out: -392.054+/-1.967 χ^2 /NDF:2717.2/24

Right Out: -549.905+/-2.943 χ^2 /NDF: 5004.3/19

Left In: -393.113+/-2.006 χ^2 /NDF:2253.3/22

Left: -392.573+/-1.404 χ^2 /NDF: 4970.6/47

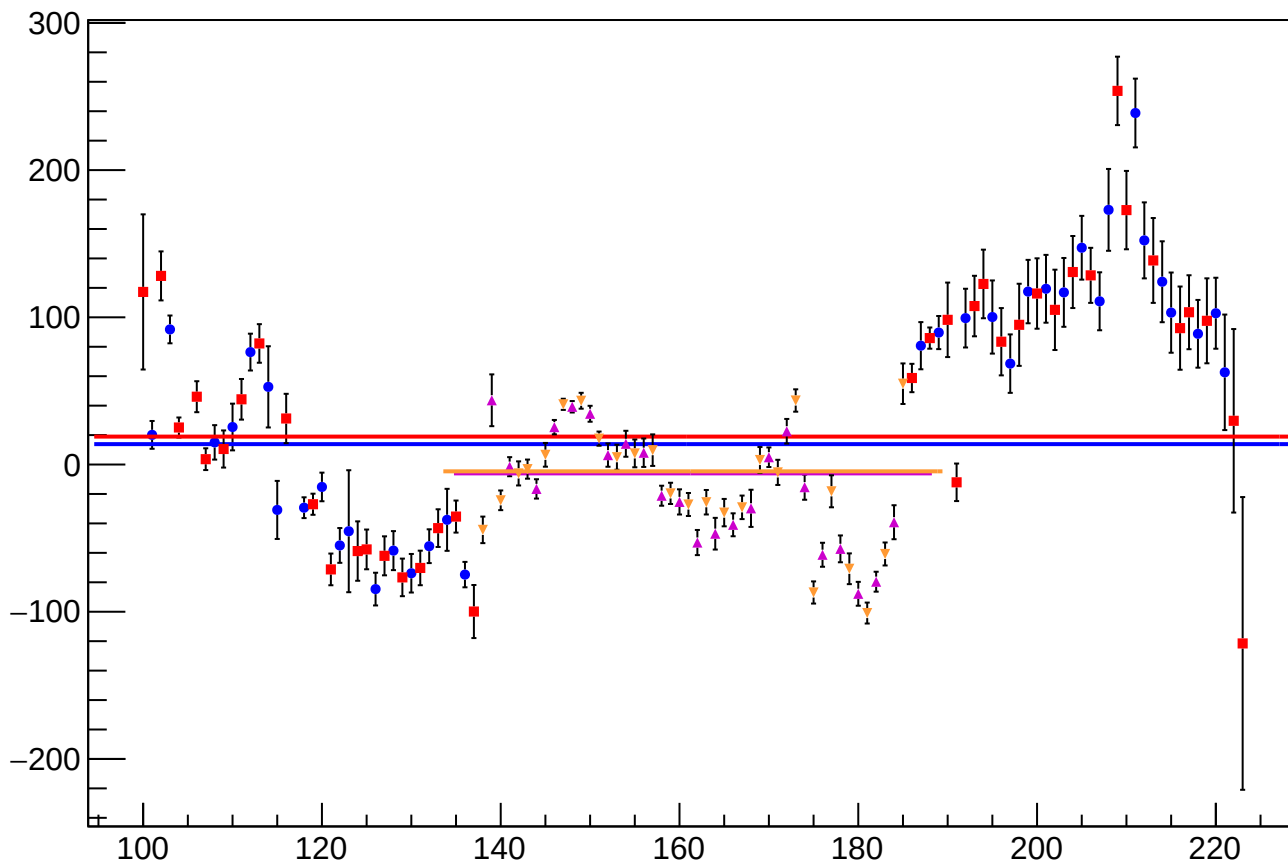
Right: -546.178+/-2.223 χ^2 /NDF: 6188.8/37

In: -431.483+/-1.726 χ^2 /NDF:4847.0/40

Out: -440.771+/-1.635 χ^2 /NDF:9709.8/44

All: -436.379+/-1.187 χ^2 /NDF: 14572.1/85

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.854+/-2.455 χ^2/NDF : 918.2/34

Left Out: -4.624+/-1.462 χ^2/NDF : 772.9/24

Right Out: 18.973+/-2.191 χ^2/NDF : 922.5/38

Left In: -6.019+/-1.516 χ^2/NDF : 654.1/22

Left: -5.296+/-1.053 χ^2/NDF : 1427.4/47

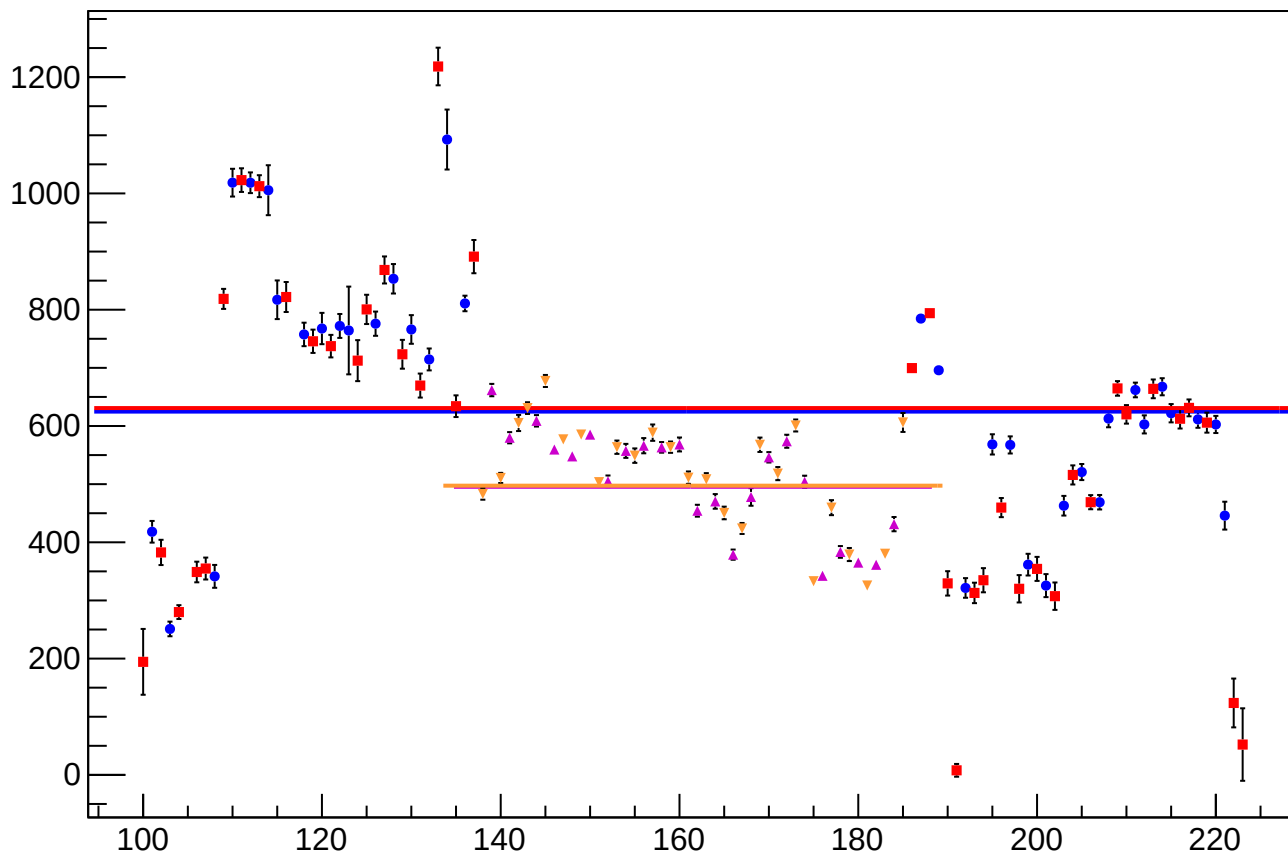
Right: 16.704+/-1.635 χ^2/NDF : 1843.1/73

In: -0.533+/-1.290 χ^2/NDF : 1619.7/57

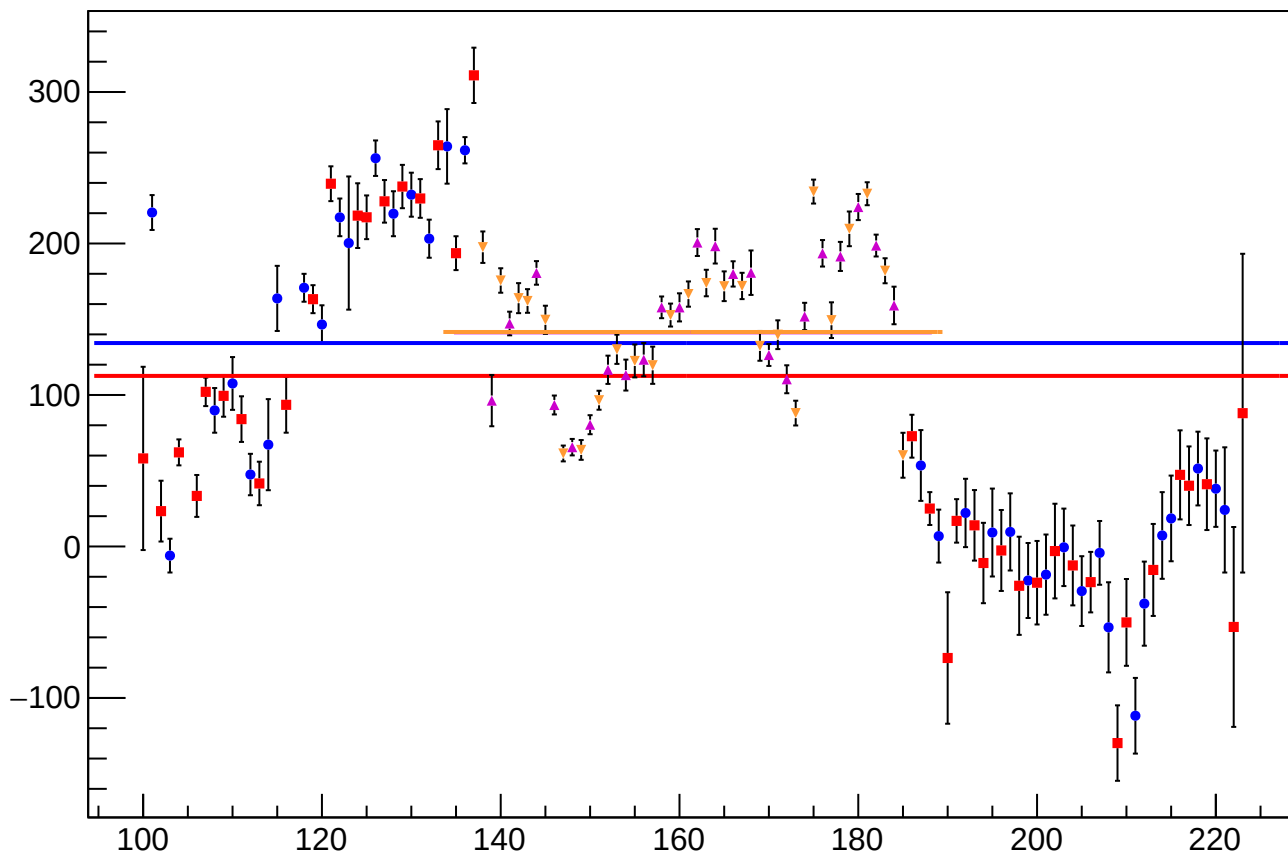
Out: 2.647+/-1.216 χ^2/NDF : 1775.6/63

All: 1.151+/-0.885 χ^2/NDF : 3398.5/121

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 134.287 $\pm$ 2.842 χ^2 /NDF: 1369.2/34

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 112.596 $\pm$ 2.612 χ^2 /NDF: 1329.3/38

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

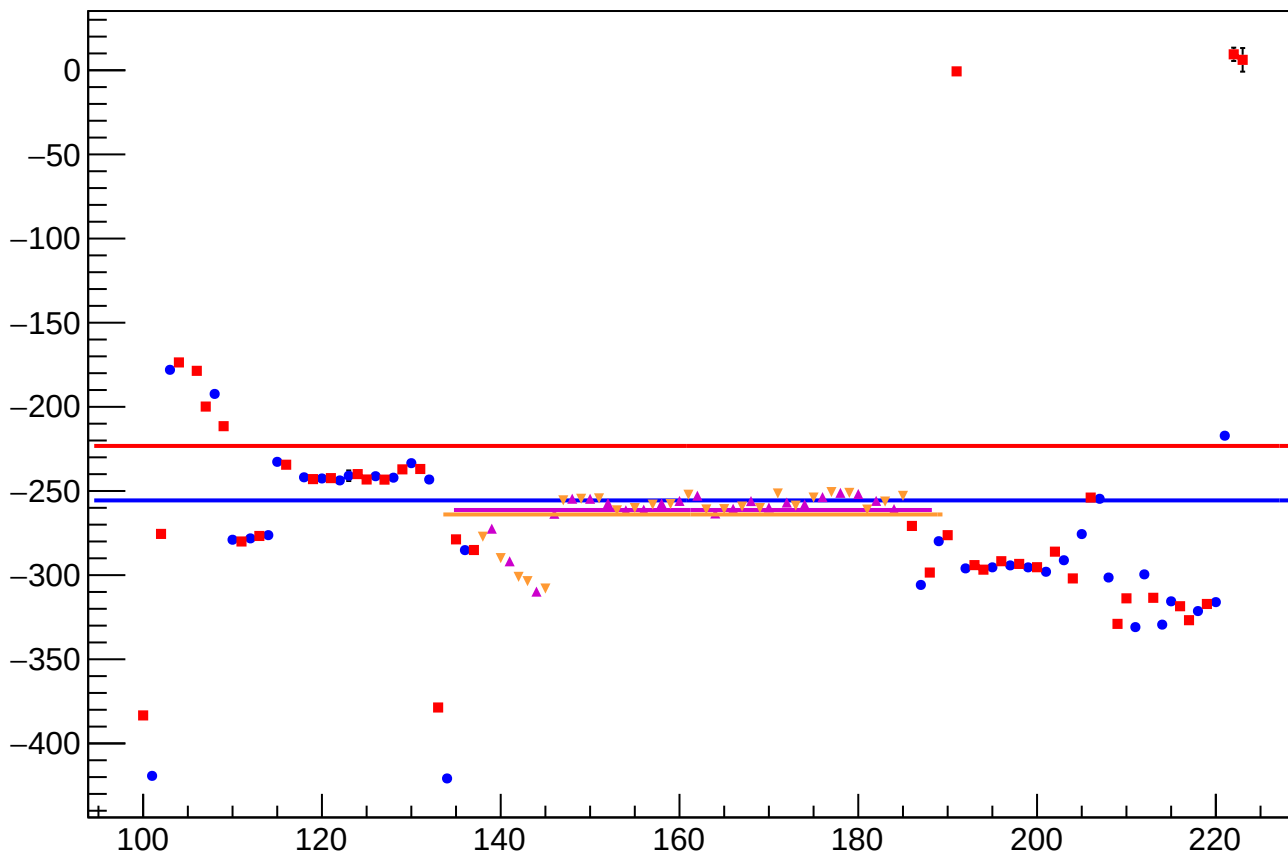
Right: 122.531 $\pm$ 1.923 χ^2 /NDF: 2730.1/73

In: 139.419 $\pm$ 1.489 χ^2 /NDF:2115.0/57

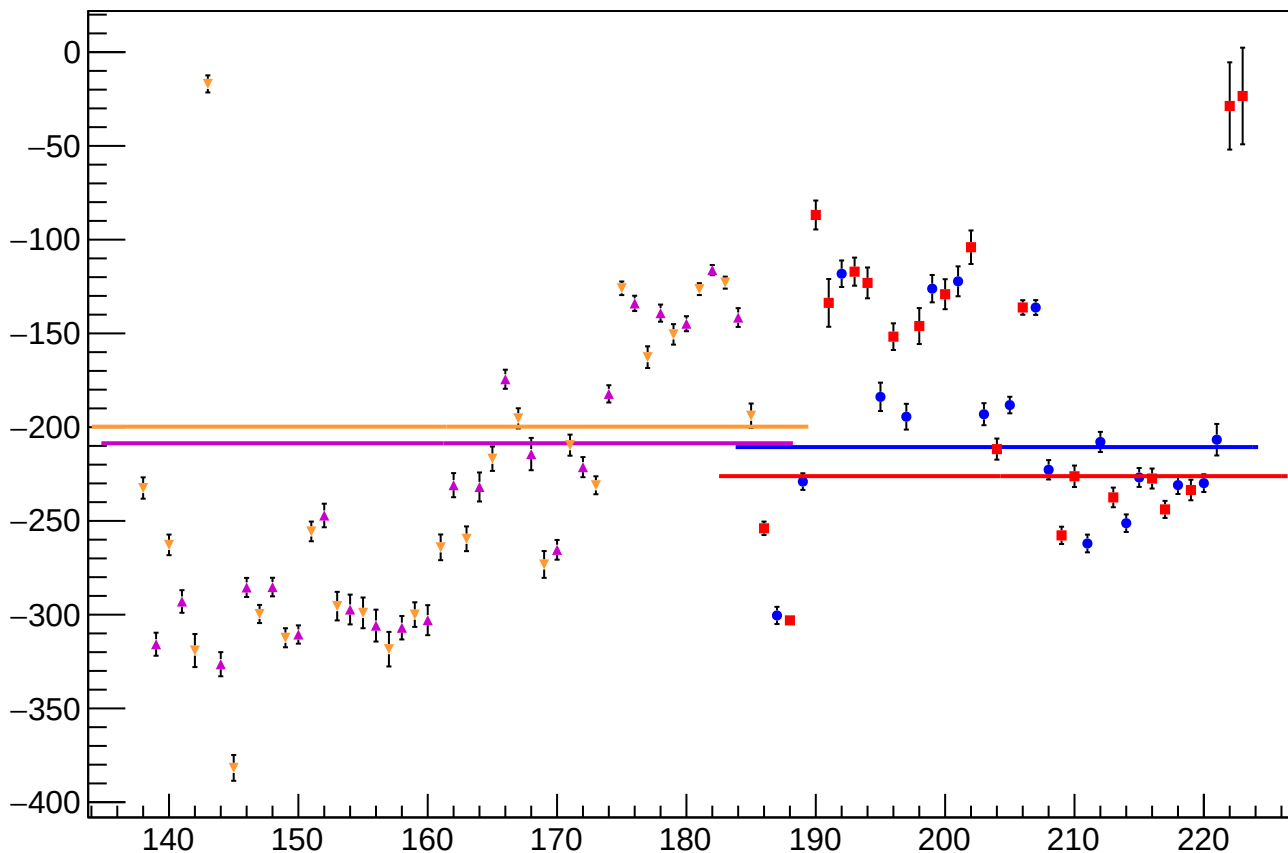
Out: 132.974 $\pm$ 1.424 χ^2 /NDF:2375.4/63

All: 136.053 $\pm$ 1.029 χ^2 /NDF: 4500.2/121

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -210.628+/-1.250 χ^2/NDF : 1478.4/17

Left Out: -199.741+/-1.061 χ^2/NDF : 6361.5/24

Right Out: -226.126+/-1.194 χ^2/NDF : 3121.7/19

Left In: -208.579+/-1.082 χ^2/NDF : 4805.1/22

Left: -204.073+/-0.758 χ^2/NDF : 11200.6/47

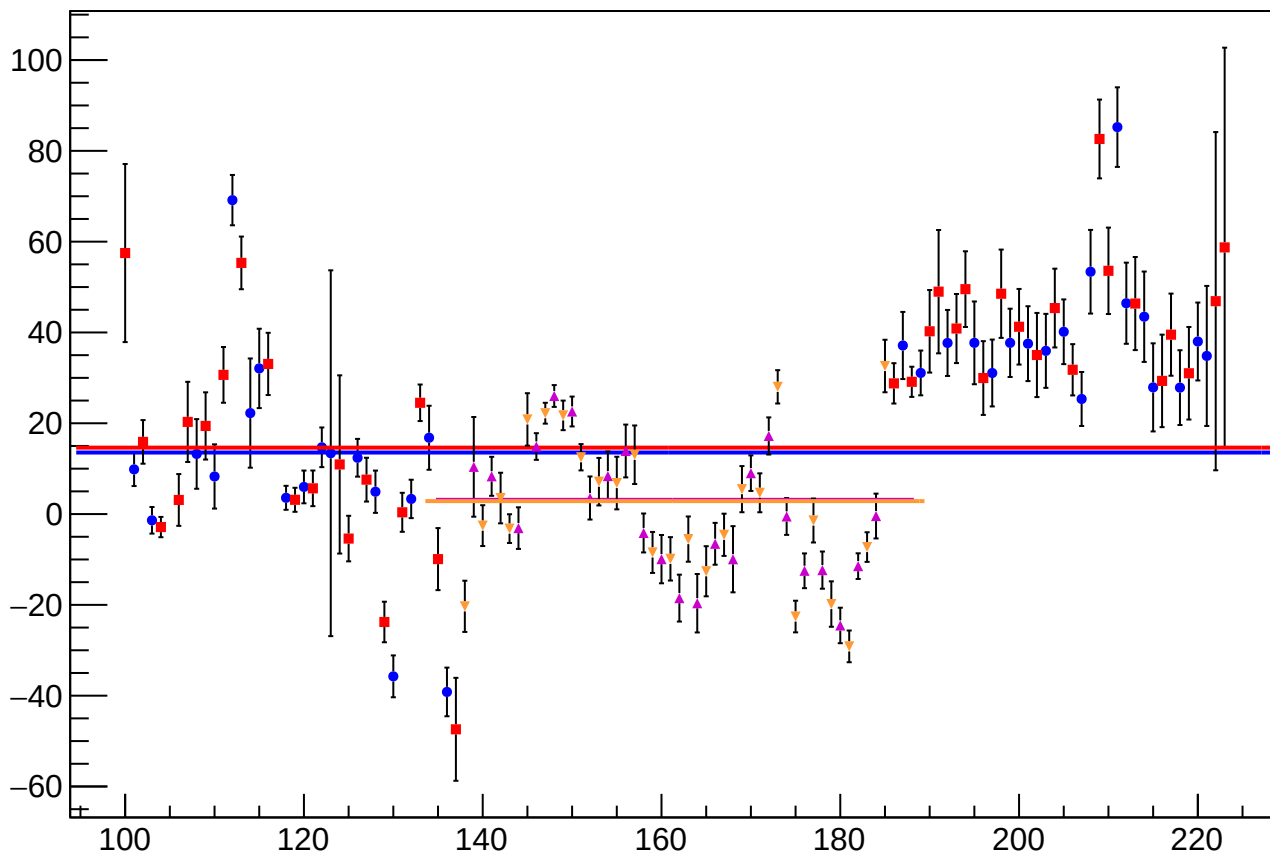
Right: -218.731+/-0.863 χ^2/NDF : 4680.5/37

In: -209.457+/-0.818 χ^2/NDF : 6285.0/40

Out: -211.388+/-0.793 χ^2/NDF : 9756.1/44

All: -210.453+/-0.569 χ^2/NDF : 16044.0/85

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.555 $\pm$ 0.949 χ^2 /NDF: 586.7/34

Left Out: 2.853 $\pm$ 0.820 χ^2 /NDF: 419.8/24

Right Out: 14.632 $\pm$ 0.903 χ^2 /NDF: 537.4/38

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

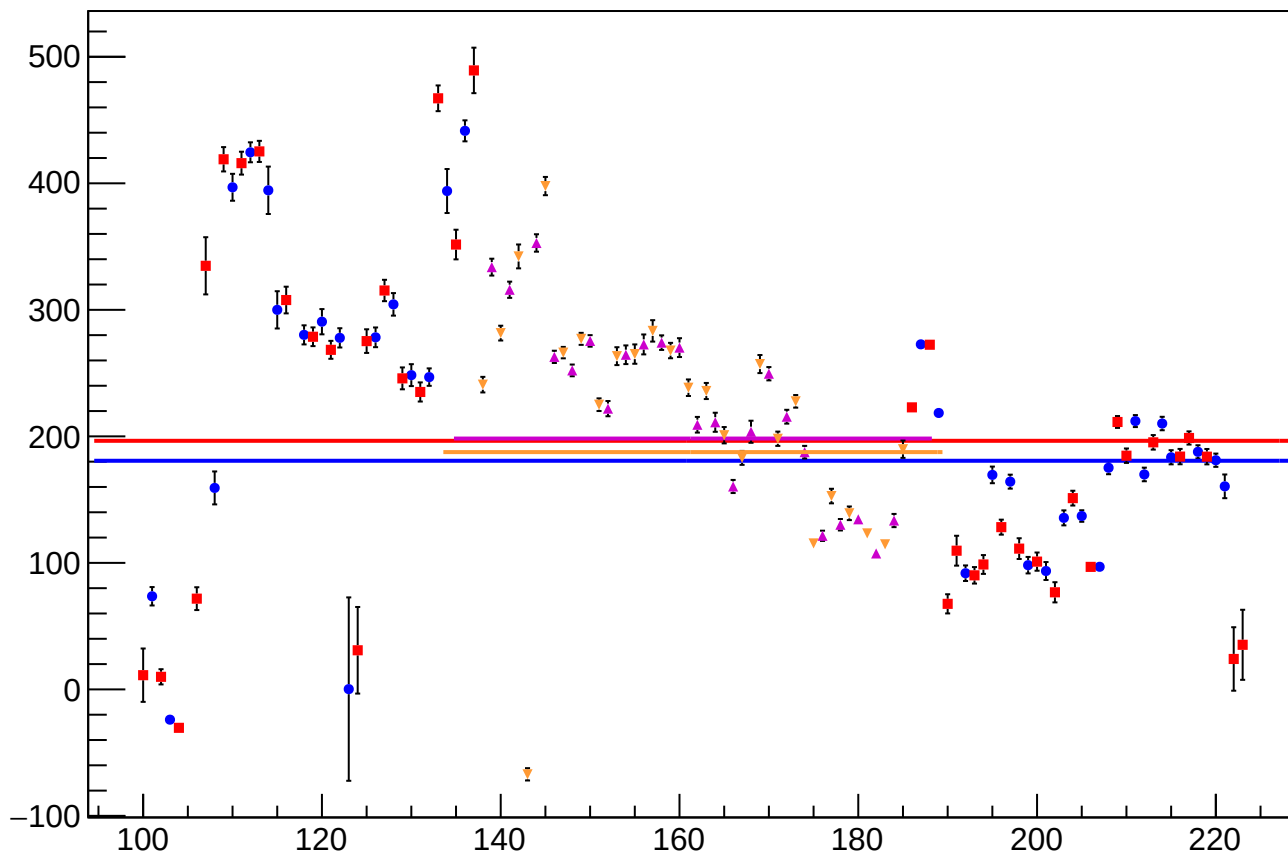
Right: 14.121 $\pm$ 0.654 χ^2 /NDF: 1124.7/73

In: 7.814 $\pm$ 0.636 χ^2 /NDF: 972.9/57

Out: 8.177 $\pm$ 0.607 χ^2 /NDF: 1050.6/63

All: 8.004 $\pm$ 0.439 χ^2 /NDF: 2023.6/121

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 180.708 $\pm$ 1.033 χ^2 /NDF: 8776.6/34

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF:7082.0/24

Right Out: 196.486 $\pm$ 0.948 χ^2 /NDF: 12235.8/38

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

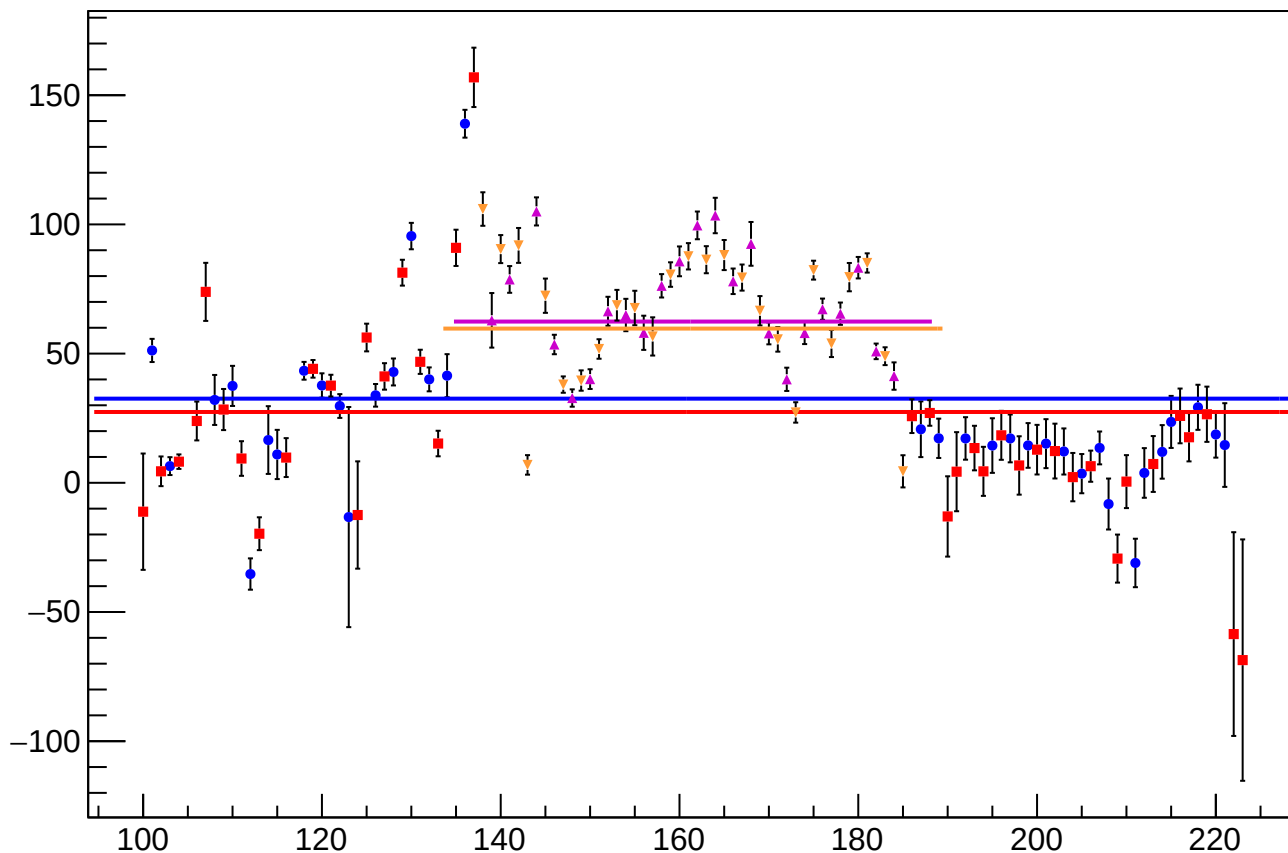
Right: 189.275 $\pm$ 0.698 χ^2 /NDF: 21139.1/73

In: 189.084 $\pm$ 0.747 χ^2 /NDF:13430.3/57

Out: 192.548 $\pm$ 0.708 χ^2 /NDF:19357.0/63

All: 190.908 $\pm$ 0.514 χ^2 /NDF: 32798.5/121

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.567 $\pm$ 1.100 χ^2 /NDF: 901.0/34

Left Out: 59.682 $\pm$ 0.941 χ^2 /NDF: 757.6/24

Right Out: 27.406 $\pm$ 1.071 χ^2 /NDF: 672.3/38

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

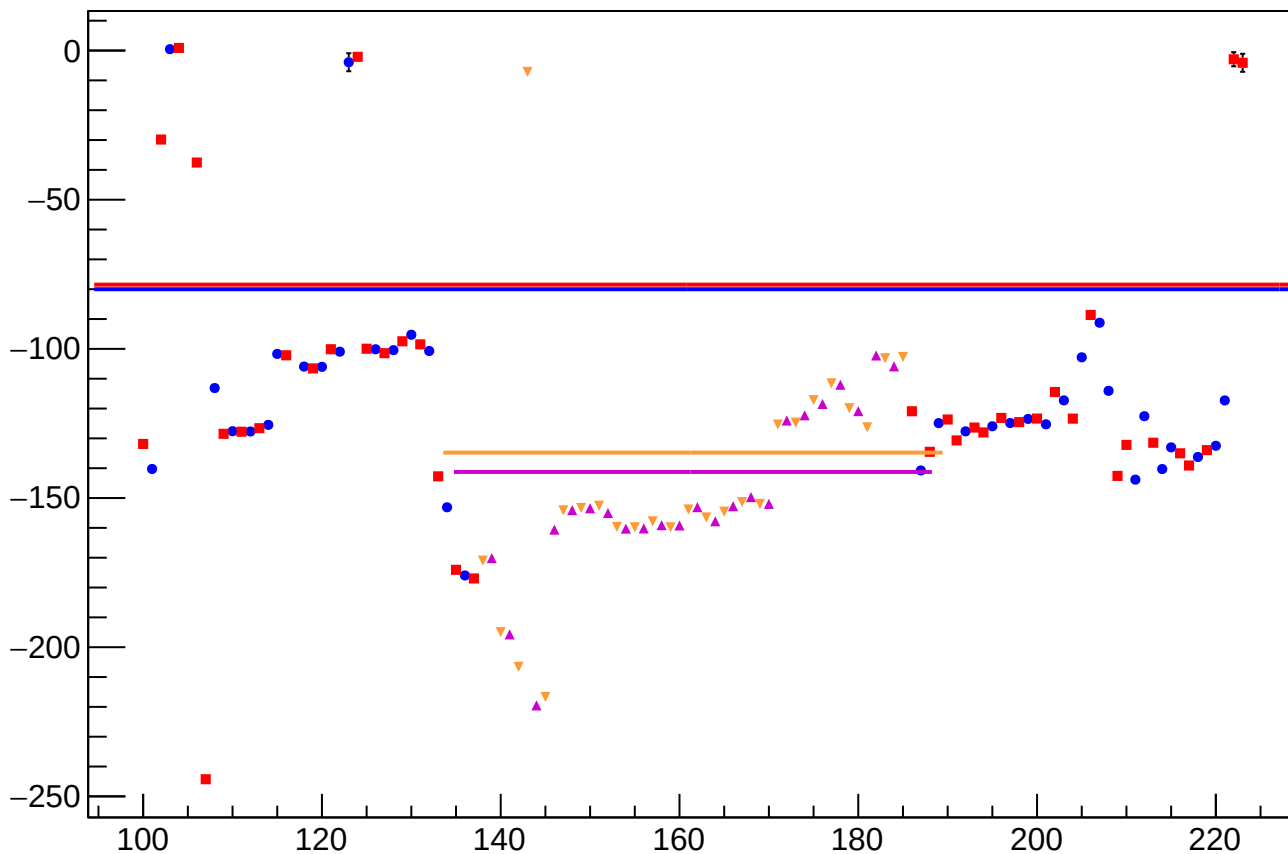
Right: 29.917 $\pm$ 0.767 χ^2 /NDF: 1584.6/73

In: 49.286 $\pm$ 0.729 χ^2 /NDF: 1719.6/57

Out: 45.621 $\pm$ 0.707 χ^2 /NDF: 1942.8/63

All: 47.396 $\pm$ 0.507 χ^2 /NDF: 3675.3/121

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -80.008 ± 0.050 $\chi^2/\text{NDF}: 1493382.7/34$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -78.466 ± 0.049 $\chi^2/\text{NDF}: 1473542.8/38$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

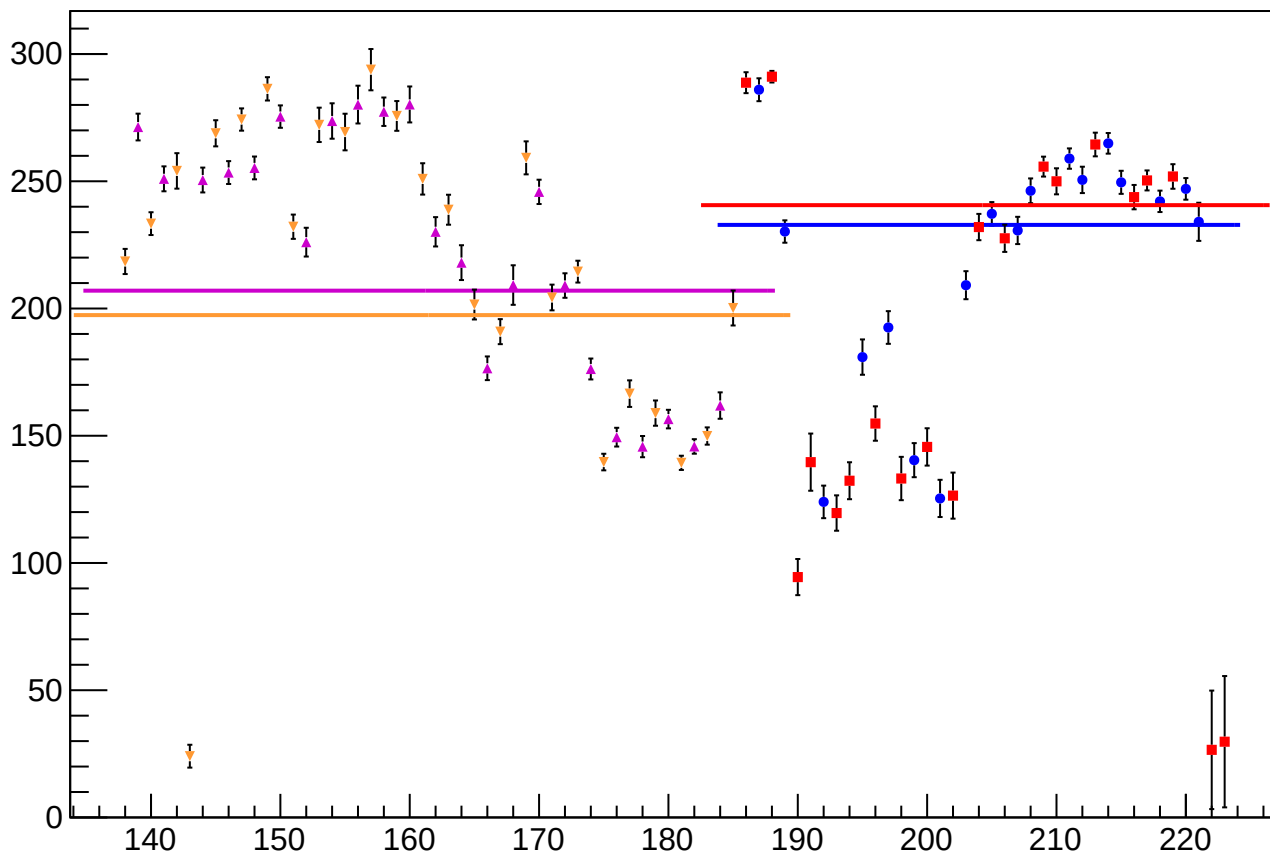
Right: -79.219 ± 0.035 $\chi^2/\text{NDF}: 2967418.0/73$

In: -113.462 ± 0.033 $\chi^2/\text{NDF}: 2670466.3/57$

Out: -109.051 ± 0.033 $\chi^2/\text{NDF}: 3009879.8/63$

All: -111.211 ± 0.023 $\chi^2/\text{NDF}: 5689209.8/12$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 232.857 $\pm$ 1.189 χ^2 /NDF: 1105.0/17

Left Out: 197.408 $\pm$ 0.963 χ^2 /NDF:4384.2/24

Right Out: 240.617 $\pm$ 1.145 χ^2 /NDF: 2521.0/19

Left In: 207.014 $\pm$ 0.990 χ^2 /NDF:2611.5/22

Left: 202.077 $\pm$ 0.690 χ^2 /NDF: 7044.1/47

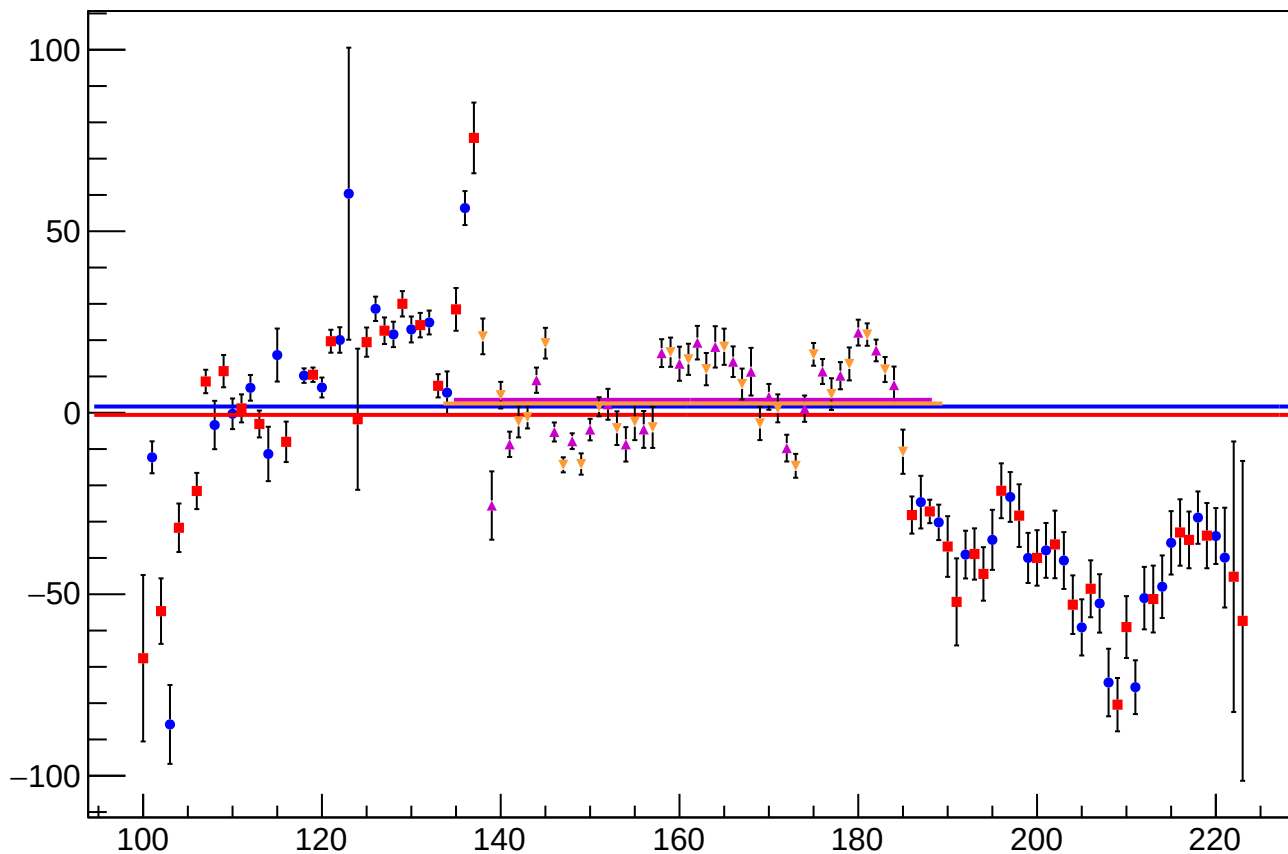
Right: 236.881 $\pm$ 0.825 χ^2 /NDF: 3648.1/37

In: 217.603 $\pm$ 0.761 χ^2 /NDF:3995.6/40

Out: 215.301 $\pm$ 0.737 χ^2 /NDF:7739.1/44

All: 216.416 $\pm$ 0.529 χ^2 /NDF: 11739.4/85

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.716 ± 0.829 χ^2/NDF : 1095.9/34

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: -0.587 ± 0.799 χ^2/NDF : 1042.8/38

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

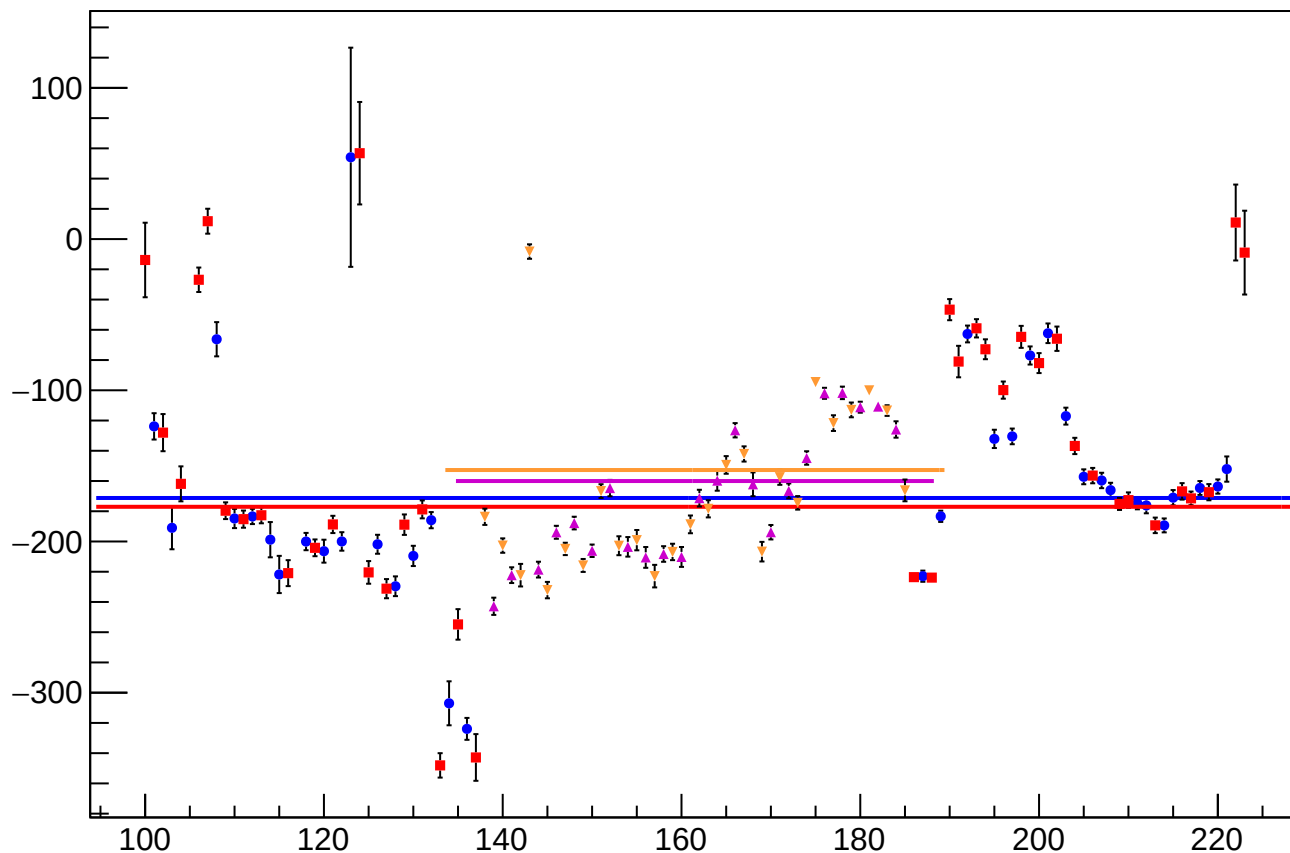
Right: 0.521 ± 0.575 χ^2/NDF : 2142.7/73

In: 2.701 ± 0.566 χ^2/NDF : 1290.5/57

Out: 1.098 ± 0.543 χ^2/NDF : 1326.5/63

All: 1.867 ± 0.392 χ^2/NDF : 2621.2/121

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.223 ± 0.976 $\chi^2/\text{NDF}: 2259.1/34$

Left Out: -152.738 ± 0.967 $\chi^2/\text{NDF}: 3077.8/24$

Right Out: -177.051 ± 0.899 $\chi^2/\text{NDF}: 4687.9/38$

Left In: -160.021 ± 0.989 $\chi^2/\text{NDF}: 2024.4/22$

Left: -156.299 ± 0.691 $\chi^2/\text{NDF}: 5129.9/47$

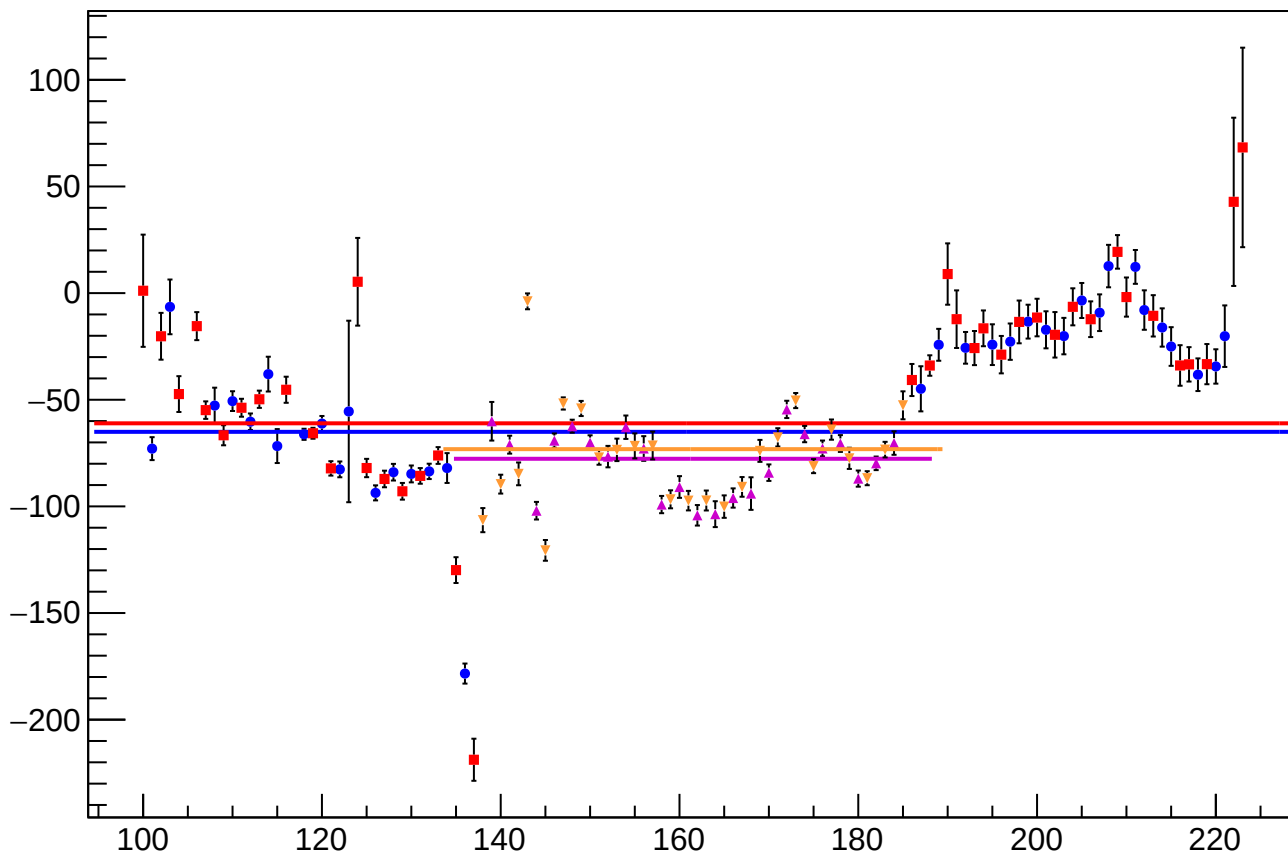
Right: -174.375 ± 0.661 $\chi^2/\text{NDF}: 6966.2/73$

In: -165.694 ± 0.695 $\chi^2/\text{NDF}: 4348.5/57$

Out: -165.774 ± 0.659 $\chi^2/\text{NDF}: 8104.7/63$

All: -165.736 ± 0.478 $\chi^2/\text{NDF}: 12453.1/121$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -65.046 ± 0.957 $\chi^2/\text{NDF}: 1383.1/34$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -61.050 ± 0.932 $\chi^2/\text{NDF}: 1220.1/38$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

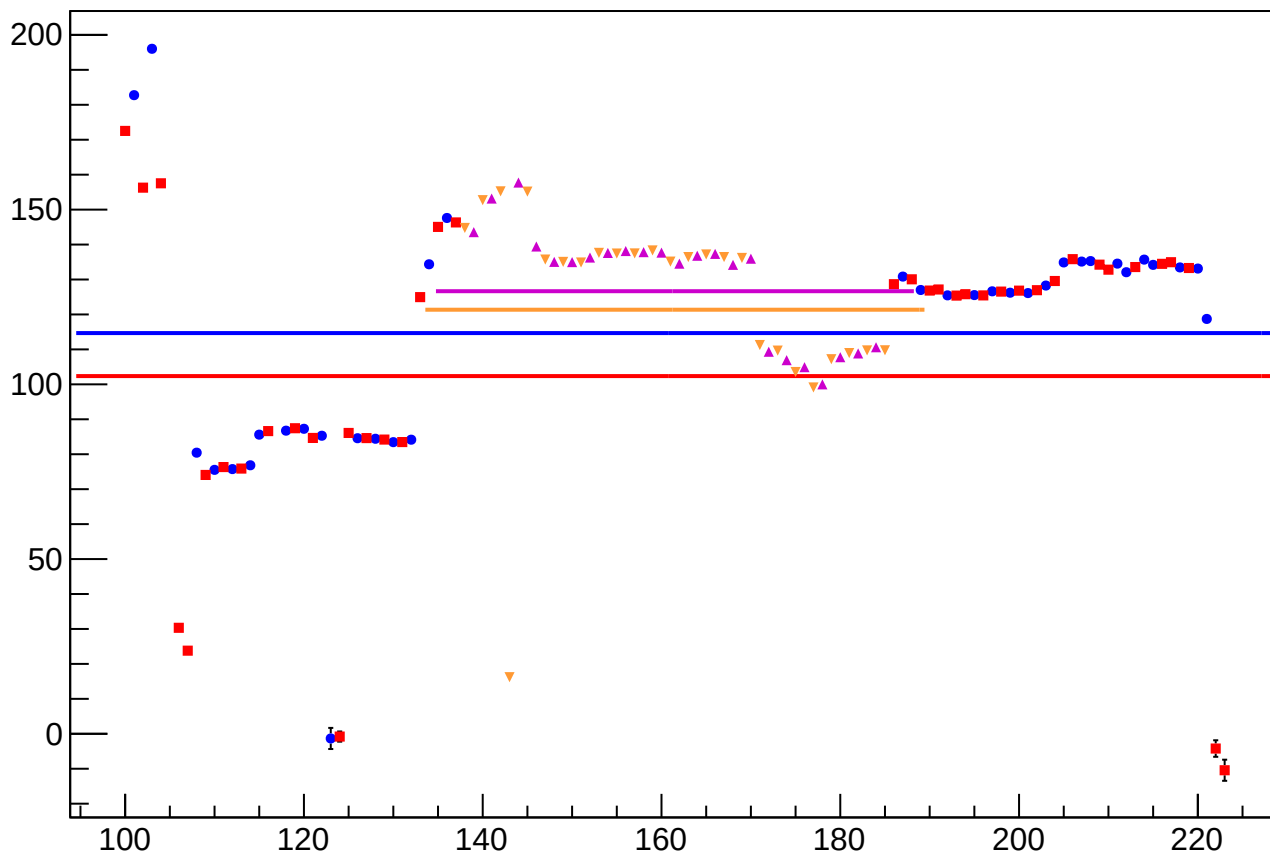
Right: -62.994 ± 0.668 $\chi^2/\text{NDF}: 2612.2/73$

In: -71.871 ± 0.649 $\chi^2/\text{NDF}: 1725.4/57$

Out: -67.654 ± 0.629 $\chi^2/\text{NDF}: 2100.9/63$

All: -69.695 ± 0.451 $\chi^2/\text{NDF}: 3848.1/121$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 114.670 $\pm$ 0.053 χ^2/NDF : 331574.8/34

Left Out: 121.356 $\pm$ 0.040 χ^2/NDF : 481977.3/24

Right Out: 102.363 $\pm$ 0.049 χ^2/NDF : 614386.0/38

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

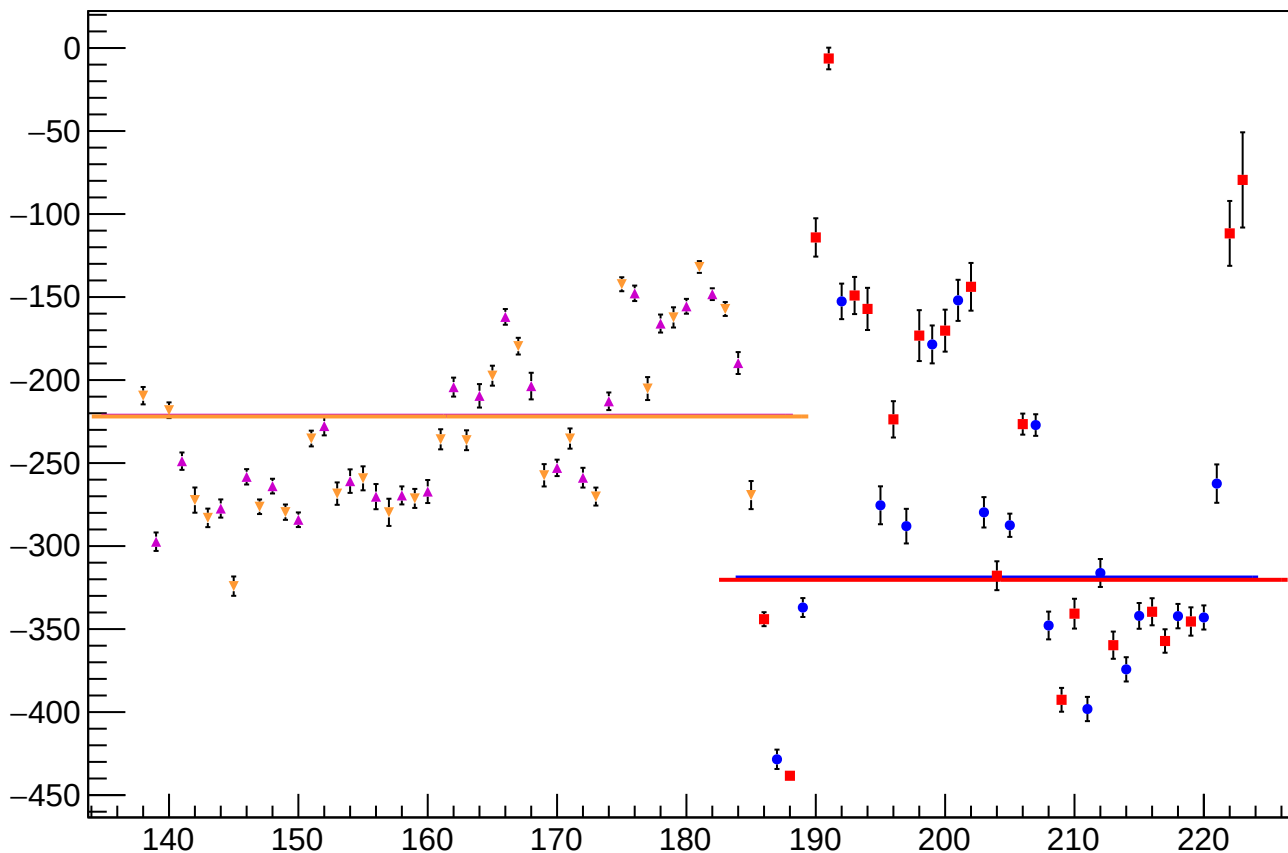
Right: 108.062 $\pm$ 0.036 χ^2/NDF : 974584.3/73

In: 122.189 $\pm$ 0.033 χ^2/NDF : 526324.7/57

Out: 113.784 $\pm$ 0.031 χ^2/NDF : 1184893.2/63

All: 117.817 $\pm$ 0.023 χ^2/NDF : 1745921.0/123

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -318.945 ± 1.878 χ^2/NDF : 1439.1/17

Left Out: -221.934 ± 1.084 χ^2/NDF : 2578.4/24

Right Out: -320.320 ± 1.641 χ^2/NDF : 5618.6/19

Left In: -221.483 ± 1.102 χ^2/NDF : 2149.8/22

Left: -221.712 ± 0.773 χ^2/NDF : 4728.2/47

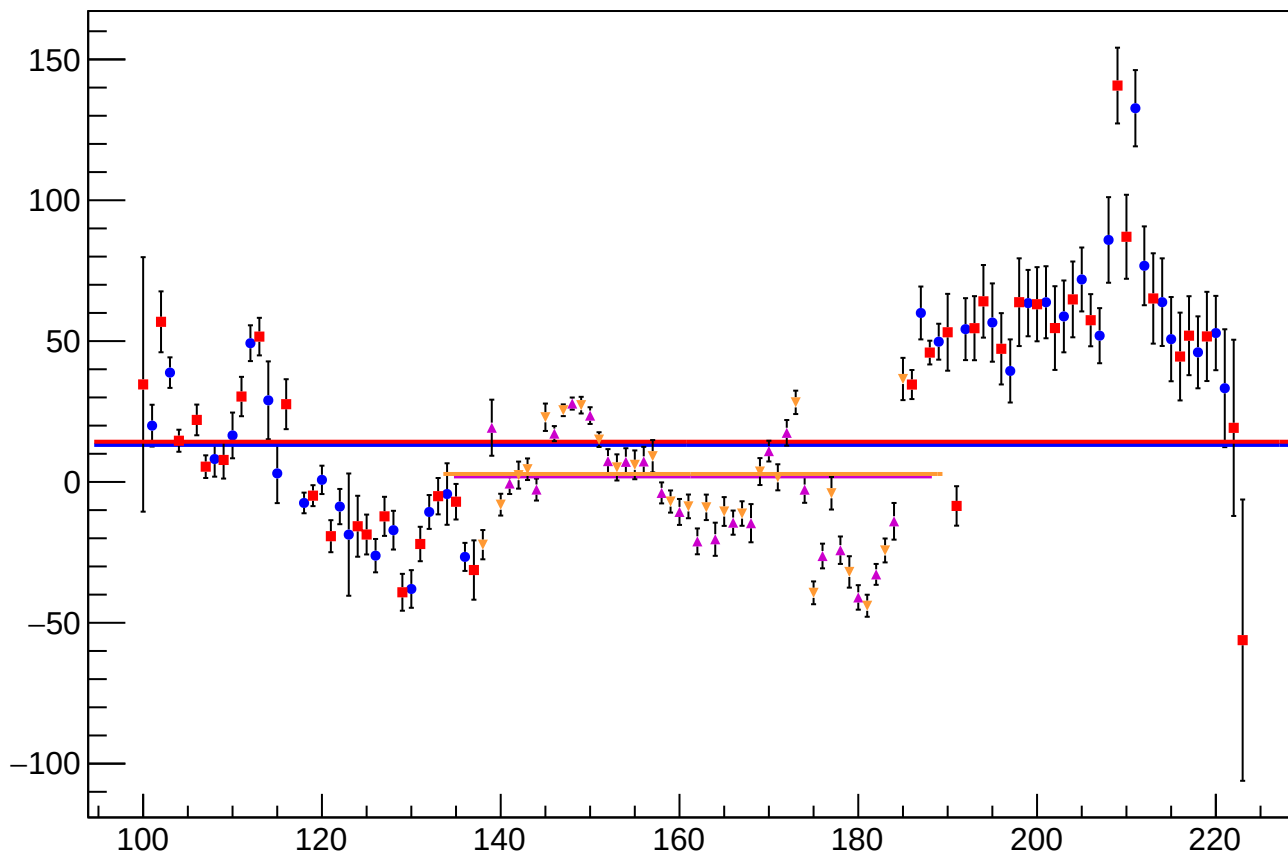
Right: -319.725 ± 1.236 χ^2/NDF : 7058.0/37

In: -246.447 ± 0.951 χ^2/NDF : 5591.5/40

Out: -251.843 ± 0.905 χ^2/NDF : 10699.2/44

All: -249.278 ± 0.655 χ^2/NDF : 16307.7/85

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.153 $\pm$ 1.343 χ^2 /NDF: 646.3/34

Left Out: 2.832 $\pm$ 0.807 χ^2 /NDF:686.9/24

Right Out: 14.283 $\pm$ 1.188 χ^2 /NDF: 641.4/38

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

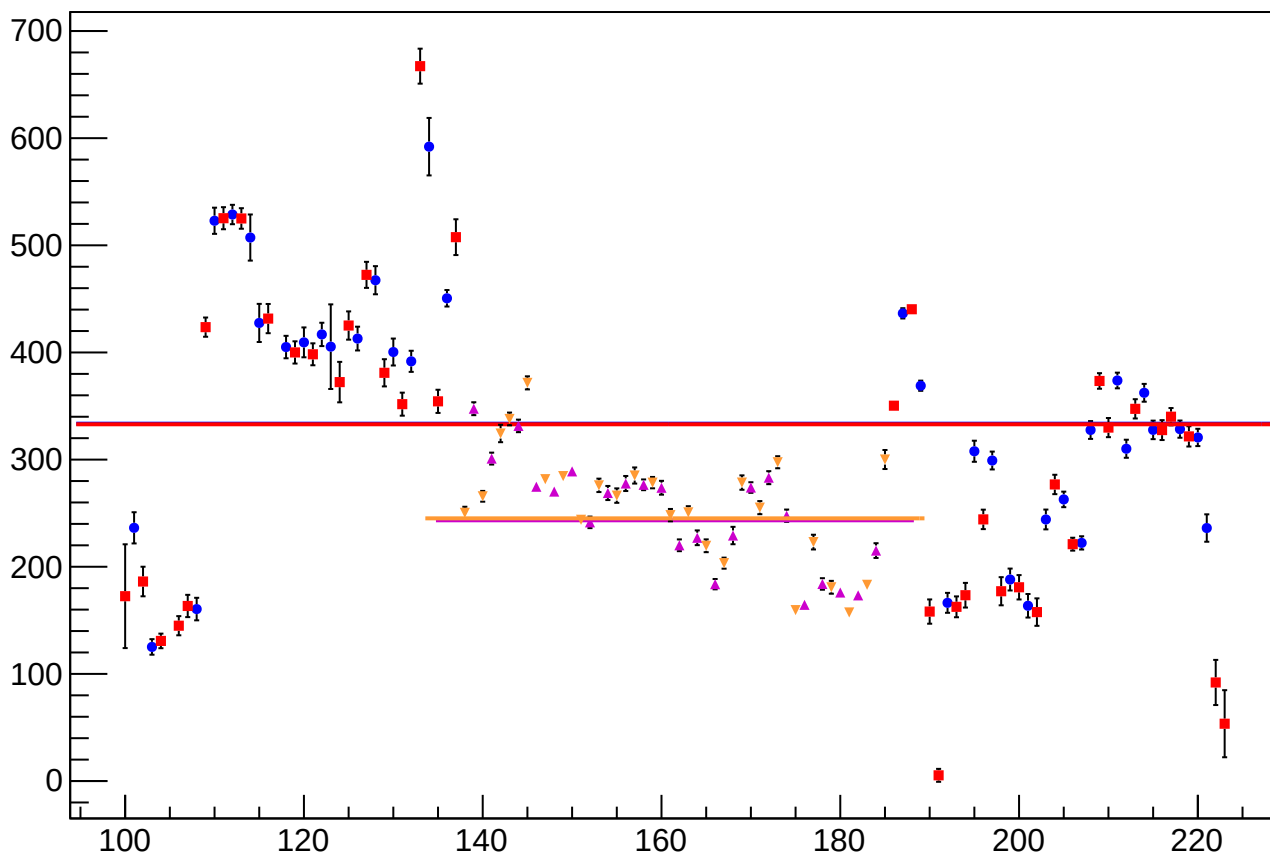
Right: 13.787 $\pm$ 0.890 χ^2 /NDF: 1288.2/73

In: 5.087 $\pm$ 0.709 χ^2 /NDF:1285.5/57

Out: 6.449 $\pm$ 0.667 χ^2 /NDF:1391.9/63

All: 5.809 $\pm$ 0.486 χ^2 /NDF: 2679.4/121

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 333.524 $\pm$ 1.508 χ^2 /NDF: 4548.2/34

Left Out: 245.179 $\pm$ 1.082 χ^2 /NDF:2597.4/24

Right Out: 332.964 $\pm$ 1.271 χ^2 /NDF: 10314.0/38

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

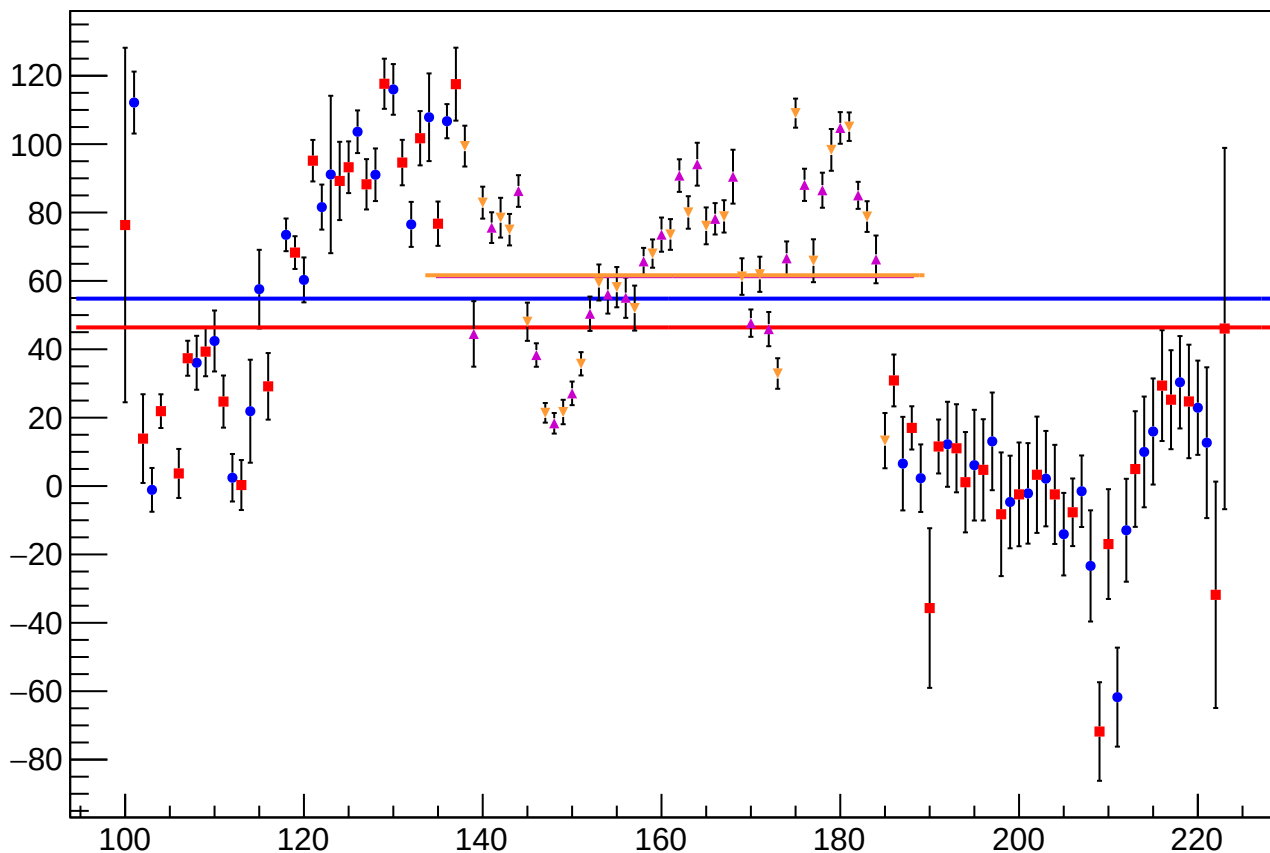
Right: 333.196 $\pm$ 0.972 χ^2 /NDF: 14862.3/73

In: 274.452 $\pm$ 0.885 χ^2 /NDF:9128.2/57

Out: 282.062 $\pm$ 0.824 χ^2 /NDF:15676.9/63

All: 278.530 $\pm$ 0.603 χ^2 /NDF: 24844.7/121

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 54.816 $\pm$ 1.551 χ^2 /NDF: 822.6/34

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF:871.5/24

Right Out: 46.398 $\pm$ 1.412 χ^2 /NDF: 803.0/38

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

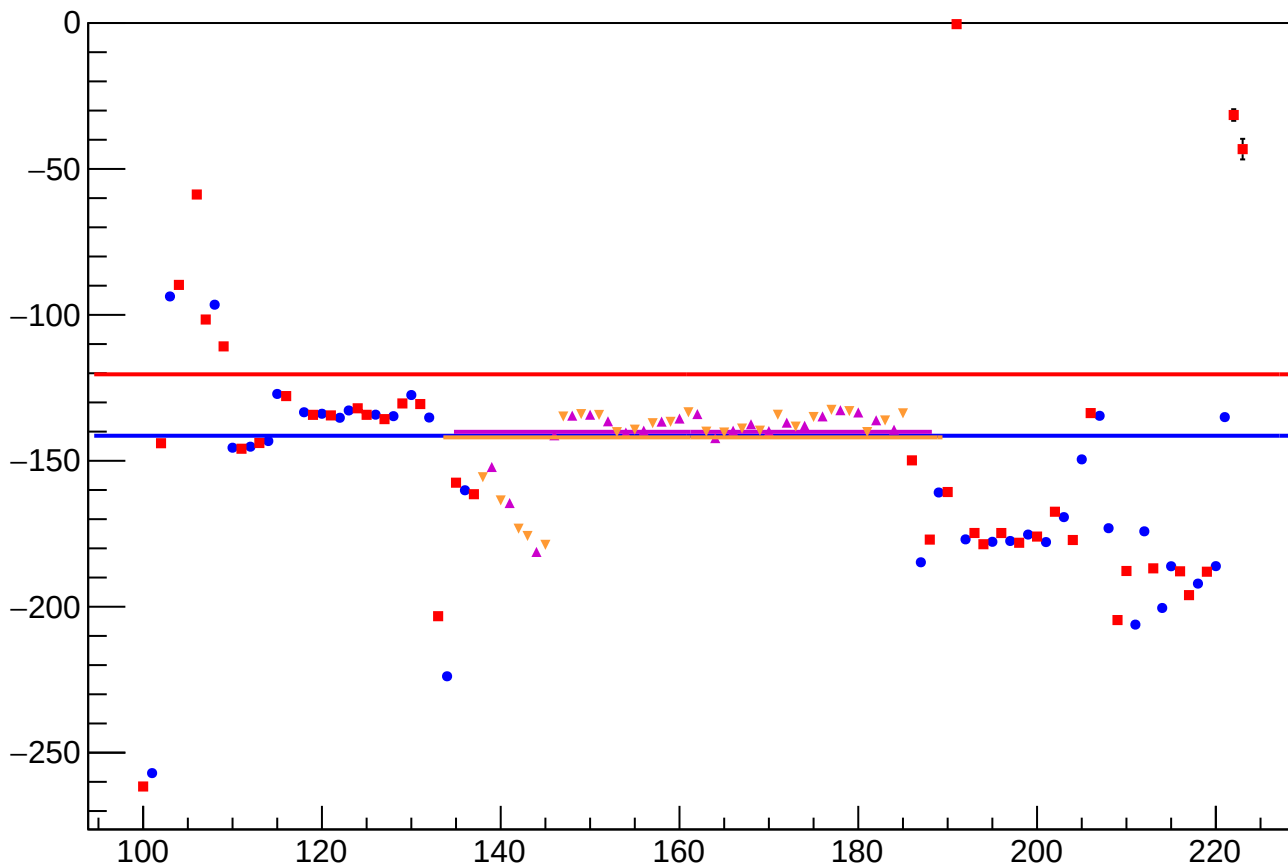
Right: 50.211 $\pm$ 1.044 χ^2 /NDF: 1641.7/73

In: 59.556 $\pm$ 0.817 χ^2 /NDF:1535.2/57

Out: 56.989 $\pm$ 0.780 χ^2 /NDF:1755.6/63

All: 58.213 $\pm$ 0.564 χ^2 /NDF: 3296.0/121

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -141.413+/-0.074 χ^2/NDF : 263501.7/34

Left Out: -141.969+/-0.045 χ^2/NDF : 80252.6/24

Right Out: -120.370+/-0.066 χ^2/NDF : 660951.9/38

Left In: -140.068+/-0.045 χ^2/NDF : 48030.7/22

Left: -141.025+/-0.032 χ^2/NDF : 129181.1/47

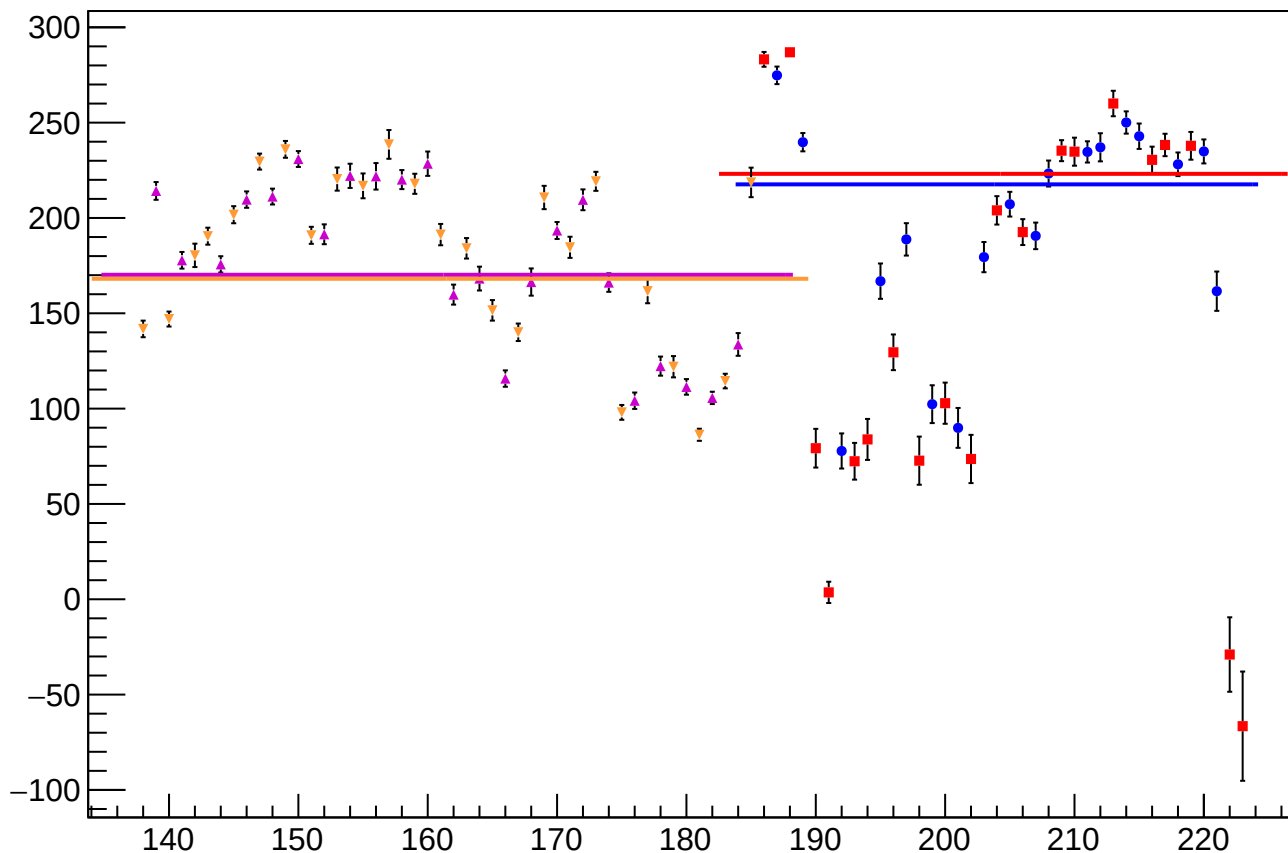
Right: -129.734+/-0.049 χ^2/NDF : 969602.2/73

In: -140.433+/-0.038 χ^2/NDF : 311774.6/57

Out: -135.186+/-0.037 χ^2/NDF : 814523.9/63

All: -137.712+/-0.027 χ^2/NDF : 1135969.3/12

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 217.626 ± 1.597 $\chi^2/\text{NDF}: 875.0/17$

Left Out: 168.106 ± 0.970 $\chi^2/\text{NDF}: 2468.8/24$

Right Out: 223.142 ± 1.389 $\chi^2/\text{NDF}: 3949.2/19$

Left In: 170.198 ± 0.995 $\chi^2/\text{NDF}: 2024.5/22$

Left: 169.125 ± 0.695 $\chi^2/\text{NDF}: 4495.5/47$

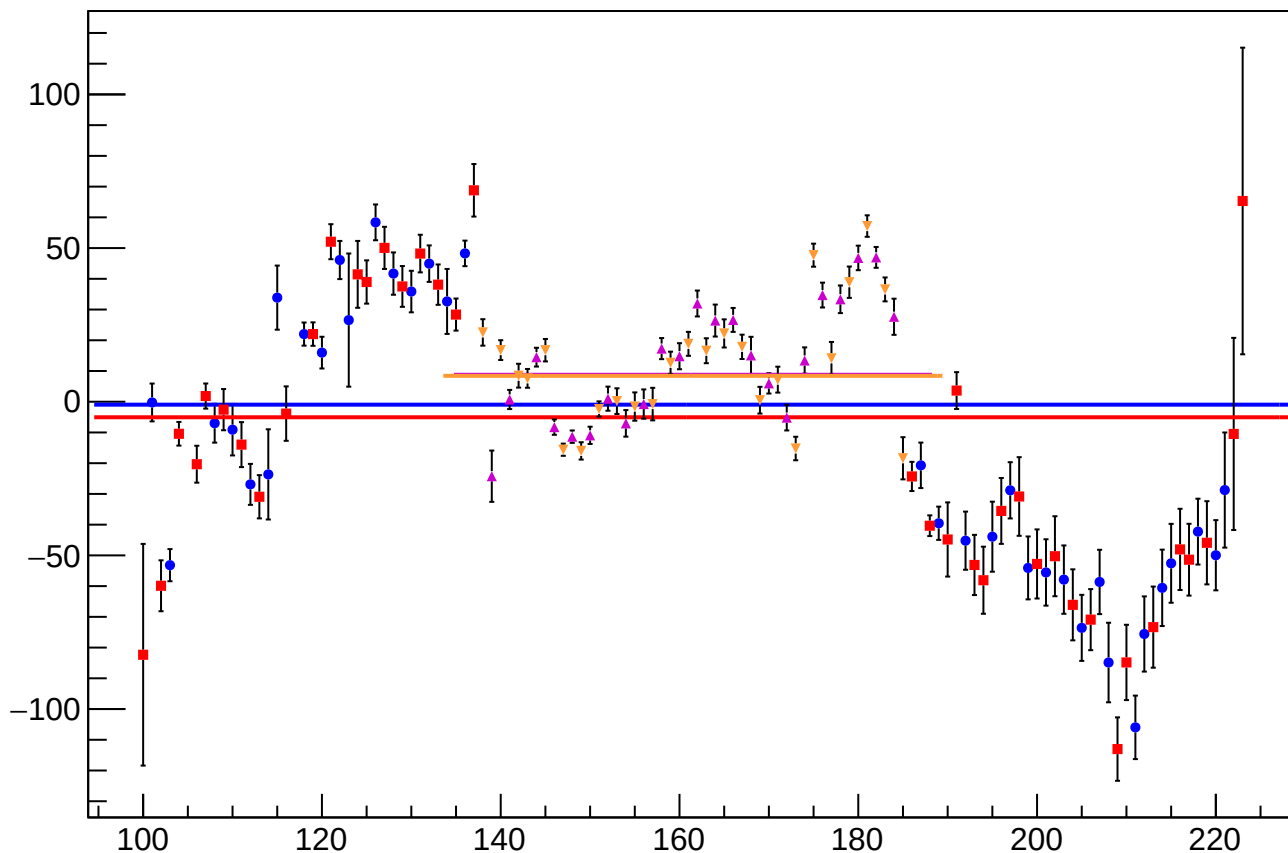
Right: 220.766 ± 1.048 $\chi^2/\text{NDF}: 4831.0/37$

In: 183.472 ± 0.845 $\chi^2/\text{NDF}: 3534.8/40$

Out: 186.152 ± 0.795 $\chi^2/\text{NDF}: 7473.1/44$

All: 184.892 ± 0.579 $\chi^2/\text{NDF}: 11013.3/85$

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.953 ± 1.266 $\chi^2/\text{NDF}: 1134.7/34$

Left Out: 8.436 ± 0.728 $\chi^2/\text{NDF}: 752.0/24$

Right Out: -5.057 ± 1.125 $\chi^2/\text{NDF}: 1140.1/38$

Left In: 8.769 ± 0.758 $\chi^2/\text{NDF}: 626.8/22$

Left: 8.596 ± 0.525 $\chi^2/\text{NDF}: 1379.0/47$

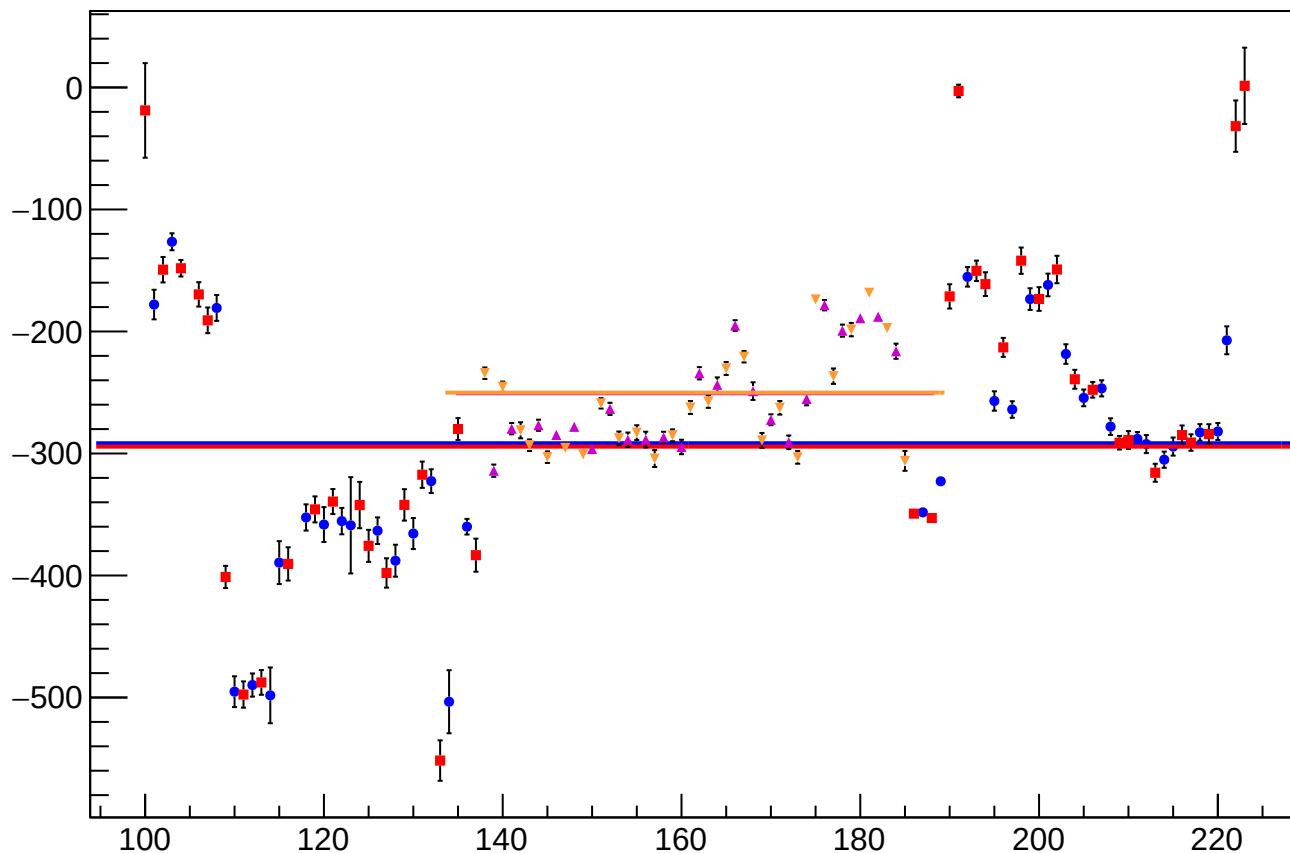
Right: -3.247 ± 0.841 $\chi^2/\text{NDF}: 2280.7/73$

In: 6.203 ± 0.651 $\chi^2/\text{NDF}: 1804.9/57$

Out: 4.452 ± 0.611 $\chi^2/\text{NDF}: 1993.6/63$

All: 5.273 ± 0.445 $\chi^2/\text{NDF}: 3802.3/121$

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -291.599 ± 1.323 χ^2/NDF : 3195.3/34

Left Out: -250.119 ± 0.972 χ^2/NDF : 2246.9/24

Right Out: -294.391 ± 1.111 χ^2/NDF : 8369.3/38

Left In: -250.628 ± 0.990 χ^2/NDF : 1937.1/22

Left: -250.369 ± 0.694 χ^2/NDF : 4184.2/47

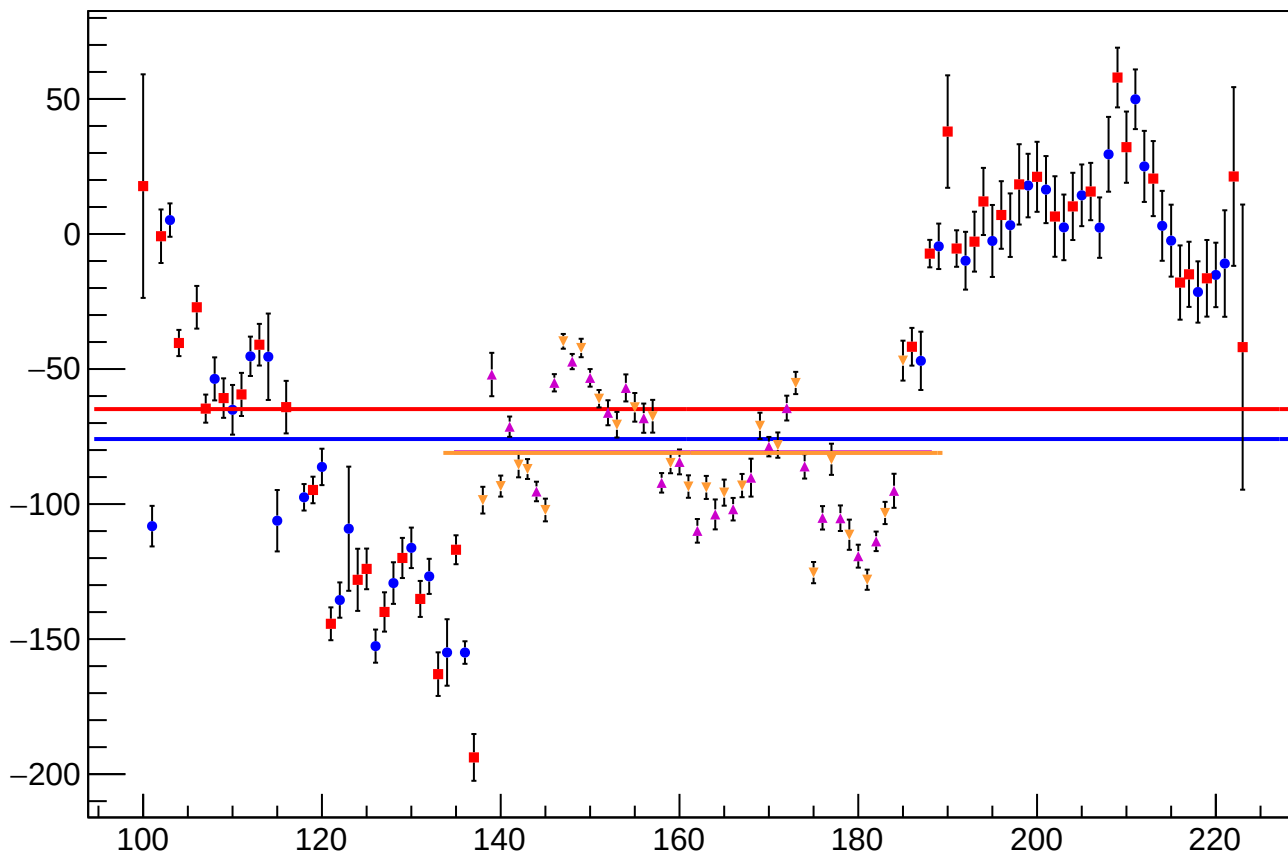
Right: -293.236 ± 0.851 χ^2/NDF : 11567.2/73

In: -265.348 ± 0.793 χ^2/NDF : 5747.2/57

Out: -269.326 ± 0.732 χ^2/NDF : 11515.8/63

All: -267.496 ± 0.538 χ^2/NDF : 17276.6/121

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -75.922 ± 1.461 χ^2/NDF : 1868.1/34

Left Out: -81.057 ± 0.843 χ^2/NDF : 913.0/24

Right Out: -64.833 ± 1.340 χ^2/NDF : 1938.8/38

Left In: -80.834 ± 0.872 χ^2/NDF : 693.1/22

Left: -80.949 ± 0.606 χ^2/NDF : 1606.2/47

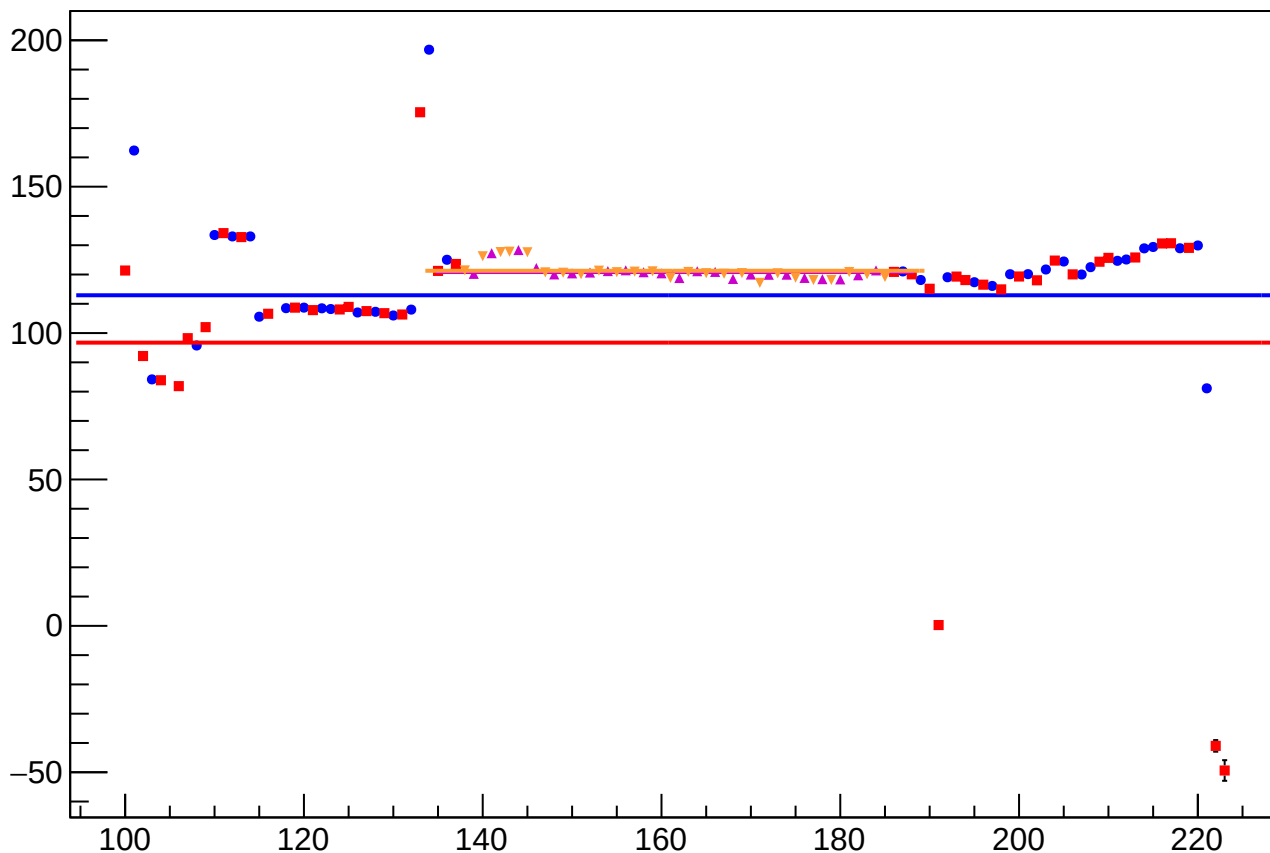
Right: -69.899 ± 0.988 χ^2/NDF : 3838.2/73

In: -79.544 ± 0.749 χ^2/NDF : 2569.5/57

Out: -76.457 ± 0.714 χ^2/NDF : 2956.9/63

All: -77.927 ± 0.517 χ^2/NDF : 5535.3/121

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.912 $\pm$ 0.068 χ^2 /NDF: 82994.9/34

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.733 $\pm$ 0.061 χ^2 /NDF: 382992.9/38

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

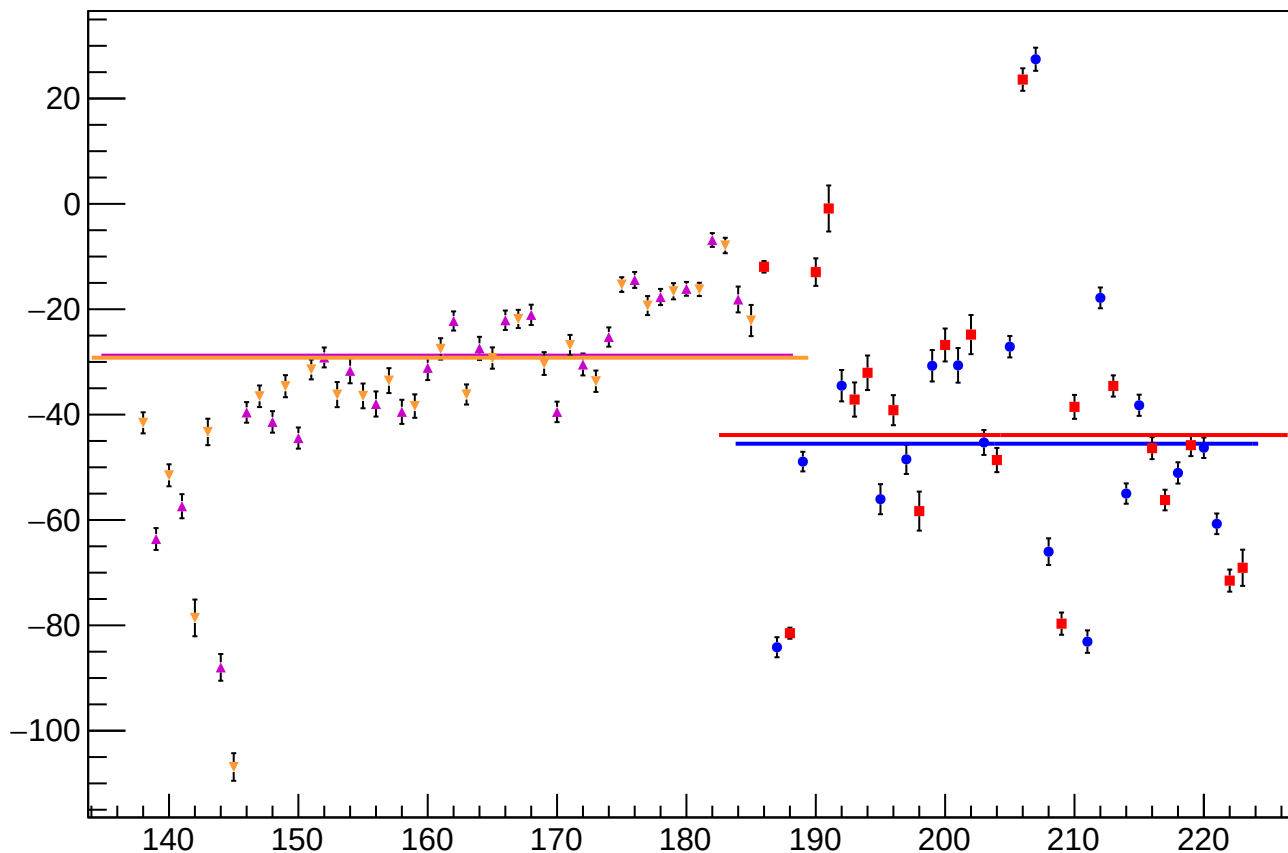
Right: 103.928 $\pm$ 0.045 χ^2 /NDF: 497433.7/73

In: 118.751 $\pm$ 0.035 χ^2 /NDF: 96382.7/57

Out: 113.848 $\pm$ 0.033 χ^2 /NDF: 501434.2/63

All: 116.197 $\pm$ 0.024 χ^2 /NDF: 608088.4/121

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -45.525 ± 0.521 χ^2/NDF : 2349.7/17

Left Out: -29.199 ± 0.389 χ^2/NDF : 1881.5/24

Right Out: -43.877 ± 0.466 χ^2/NDF : 4043.8/19

Left In: -28.810 ± 0.395 χ^2/NDF : 1763.8/22

Left: -29.008 ± 0.277 χ^2/NDF : 3645.8/47

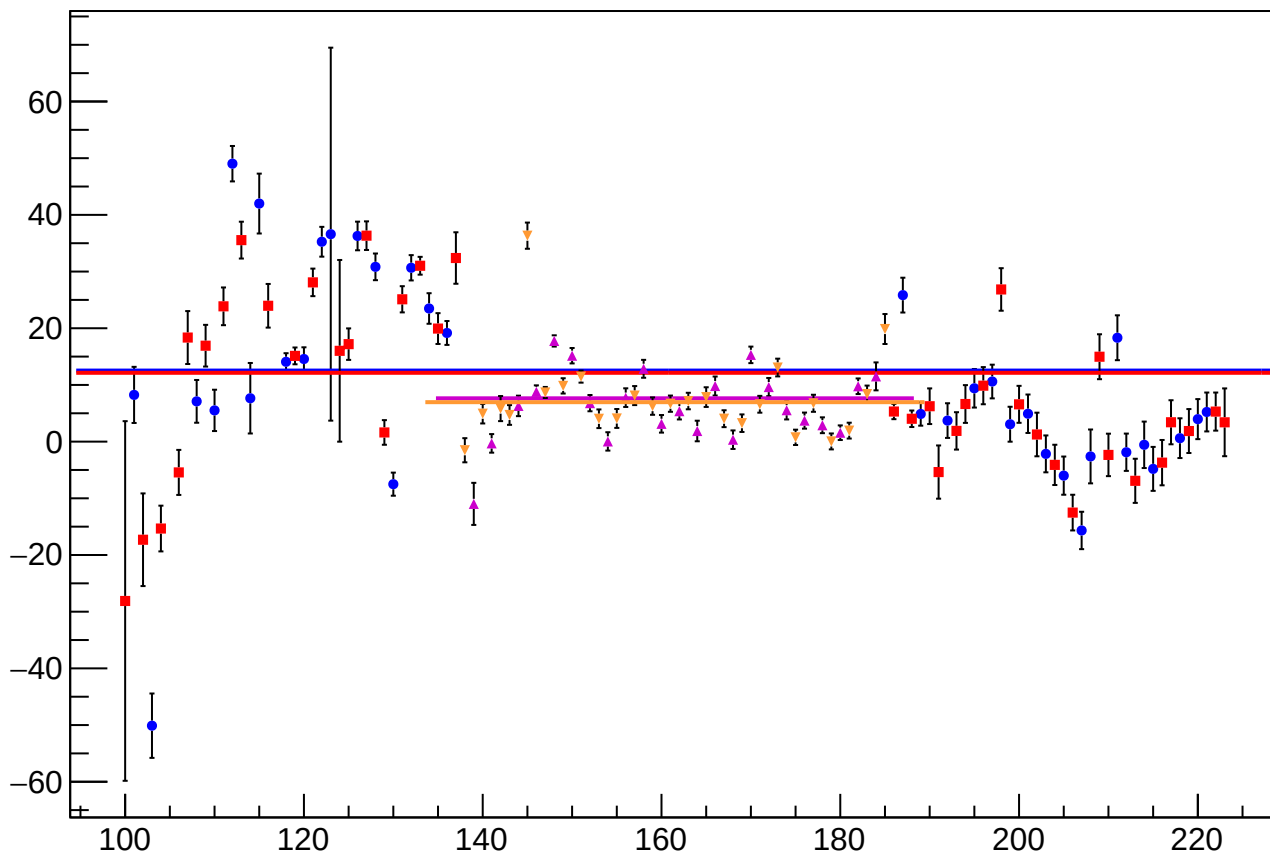
Right: -44.609 ± 0.347 χ^2/NDF : 6399.1/37

In: -34.914 ± 0.315 χ^2/NDF : 4766.4/40

Out: -35.215 ± 0.298 χ^2/NDF : 6510.2/44

All: -35.073 ± 0.217 χ^2/NDF : 11277.0/85

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.533 $\pm$ 0.498 χ^2 /NDF: 975.8/34

Left Out: 6.960 $\pm$ 0.303 χ^2 /NDF:321.3/24

Right Out: 12.143 $\pm$ 0.457 χ^2 /NDF: 796.8/38

Left In: 7.638 $\pm$ 0.313 χ^2 /NDF:337.7/22

Left: 7.287 $\pm$ 0.218 χ^2 /NDF: 661.5/47

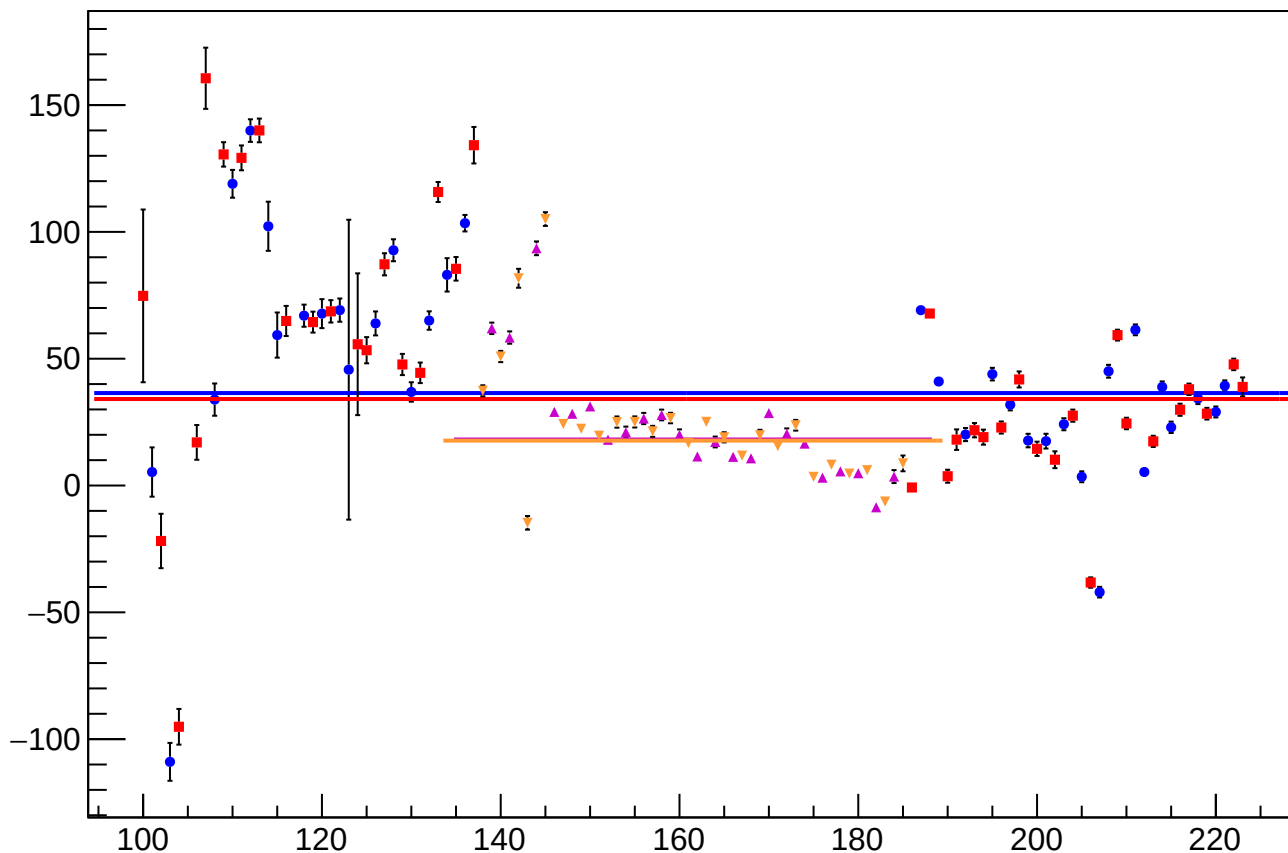
Right: 12.321 $\pm$ 0.337 χ^2 /NDF: 1772.9/73

In: 9.026 $\pm$ 0.265 χ^2 /NDF:1382.7/57

Out: 8.542 $\pm$ 0.253 χ^2 /NDF:1207.4/63

All: 8.772 $\pm$ 0.183 χ^2 /NDF: 2591.8/121

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 36.458 $\pm$ 0.470 χ^2 /NDF: 4789.5/34

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 34.101 $\pm$ 0.402 χ^2 /NDF: 7876.5/38

Left In: 18.150 $\pm$ 0.393 χ^2 /NDF:2339.4/22

Left: 17.924 $\pm$ 0.276 χ^2 /NDF: 4772.2/47

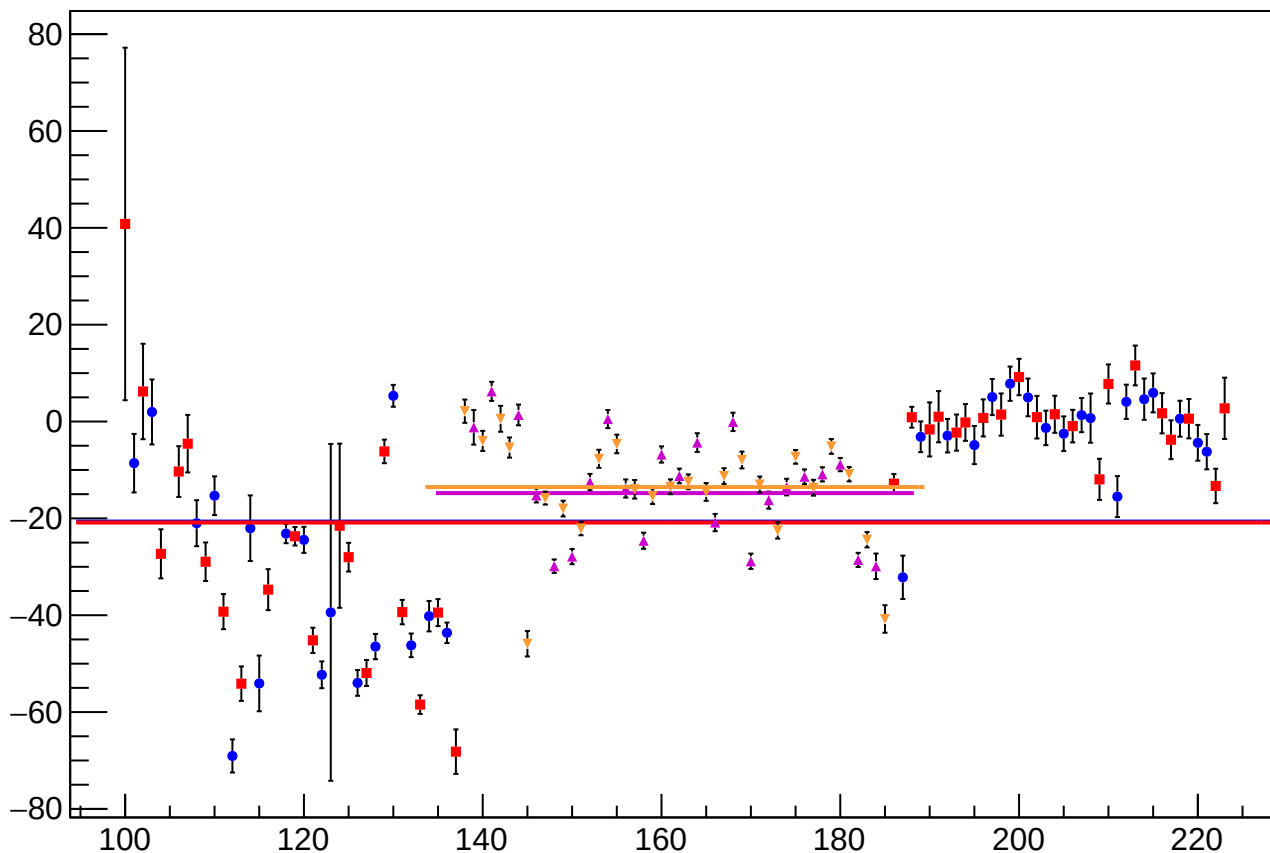
Right: 35.098 $\pm$ 0.306 χ^2 /NDF: 12680.5/73

In: 25.679 $\pm$ 0.301 χ^2 /NDF:8023.2/57

Out: 25.590 $\pm$ 0.279 χ^2 /NDF:11170.9/63

All: 25.631 $\pm$ 0.205 χ^2 /NDF: 19194.2/121

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -20.660 ± 0.572 χ^2/NDF : 1582.8/34

Left Out: -13.531 ± 0.344 χ^2/NDF : 572.8/24

Right Out: -20.854 ± 0.544 χ^2/NDF : 1630.8/38

Left In: -14.778 ± 0.354 χ^2/NDF : 838.0/22

Left: -14.136 ± 0.247 χ^2/NDF : 1417.2/47

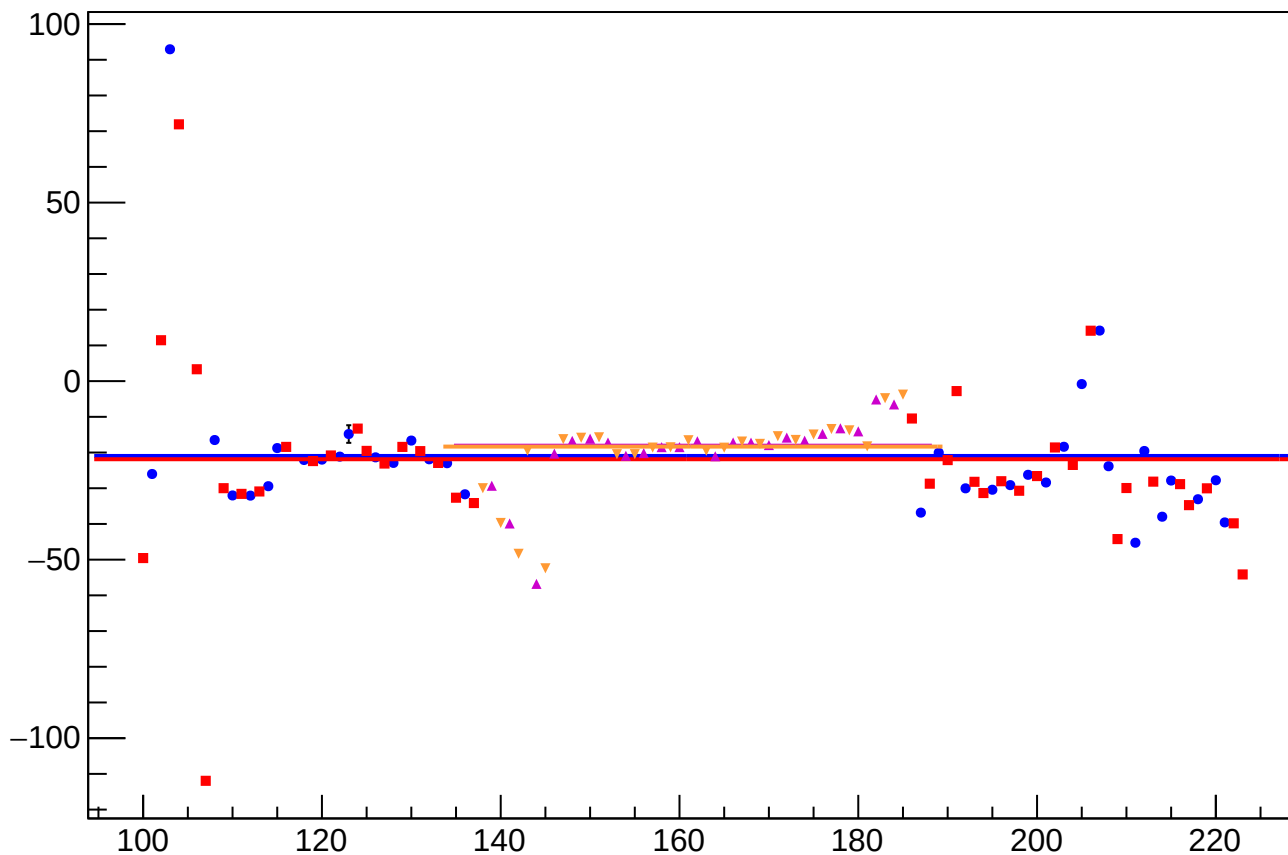
Right: -20.762 ± 0.394 χ^2/NDF : 3213.6/73

In: -16.409 ± 0.301 χ^2/NDF : 2497.3/57

Out: -15.623 ± 0.291 χ^2/NDF : 2333.0/63

All: -16.003 ± 0.209 χ^2/NDF : 4833.9/121

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.959 ± 0.028 $\chi^2/\text{NDF}: 631442.6/34$

Left Out: -18.334 ± 0.016 $\chi^2/\text{NDF}: 284152.1/24$

Right Out: -21.877 ± 0.027 $\chi^2/\text{NDF}: 597987.2/38$

Left In: -18.083 ± 0.016 $\chi^2/\text{NDF}: 241949.5/22$

Left: -18.211 ± 0.011 $\chi^2/\text{NDF}: 526224.9/47$

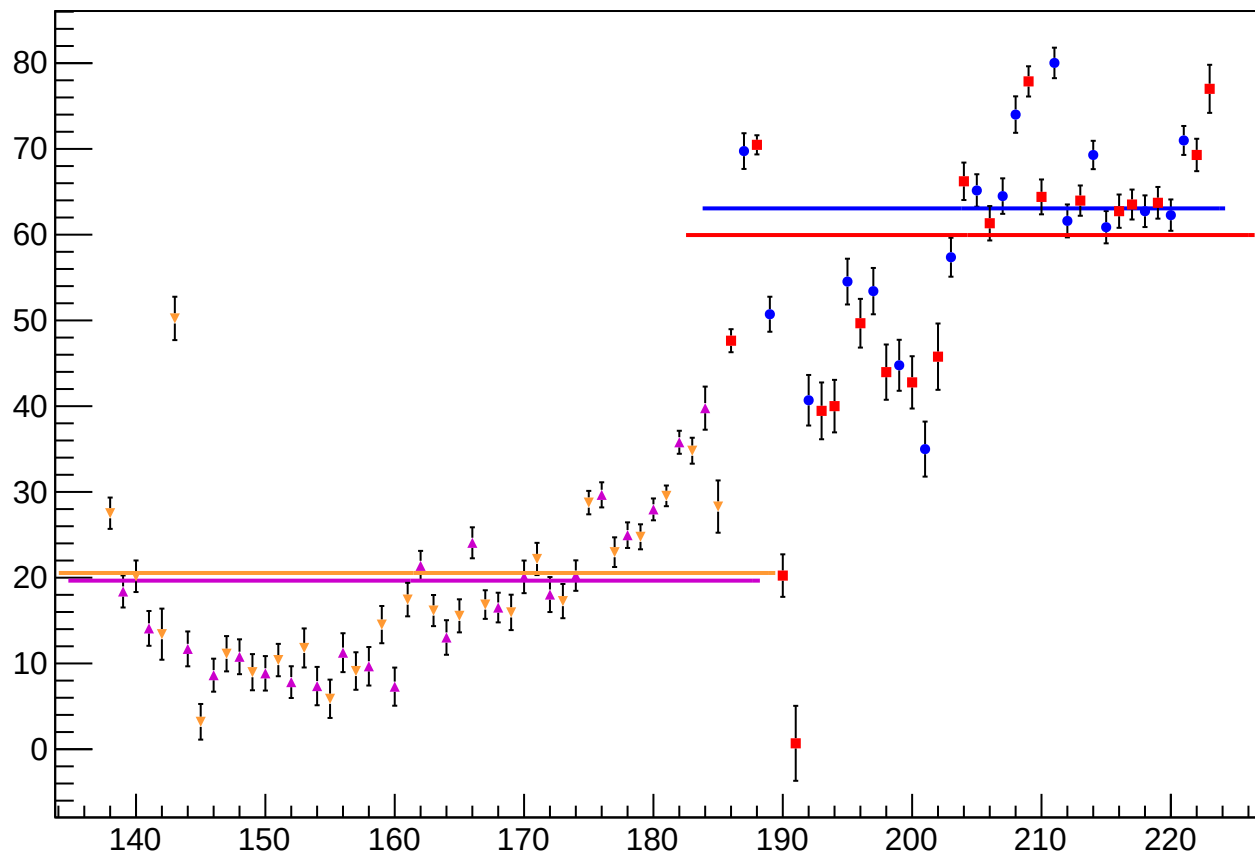
Right: -21.434 ± 0.019 $\chi^2/\text{NDF}: 1229998.5/73$

In: -18.809 ± 0.014 $\chi^2/\text{NDF}: 881462.0/57$

Out: -19.254 ± 0.014 $\chi^2/\text{NDF}: 895124.4/63$

All: -19.036 ± 0.010 $\chi^2/\text{NDF}: 1777107.1/121$

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 63.064 $\pm$ 0.489 χ^2 /NDF: 405.6/17

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 59.956 $\pm$ 0.457 χ^2 /NDF: 970.4/19

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

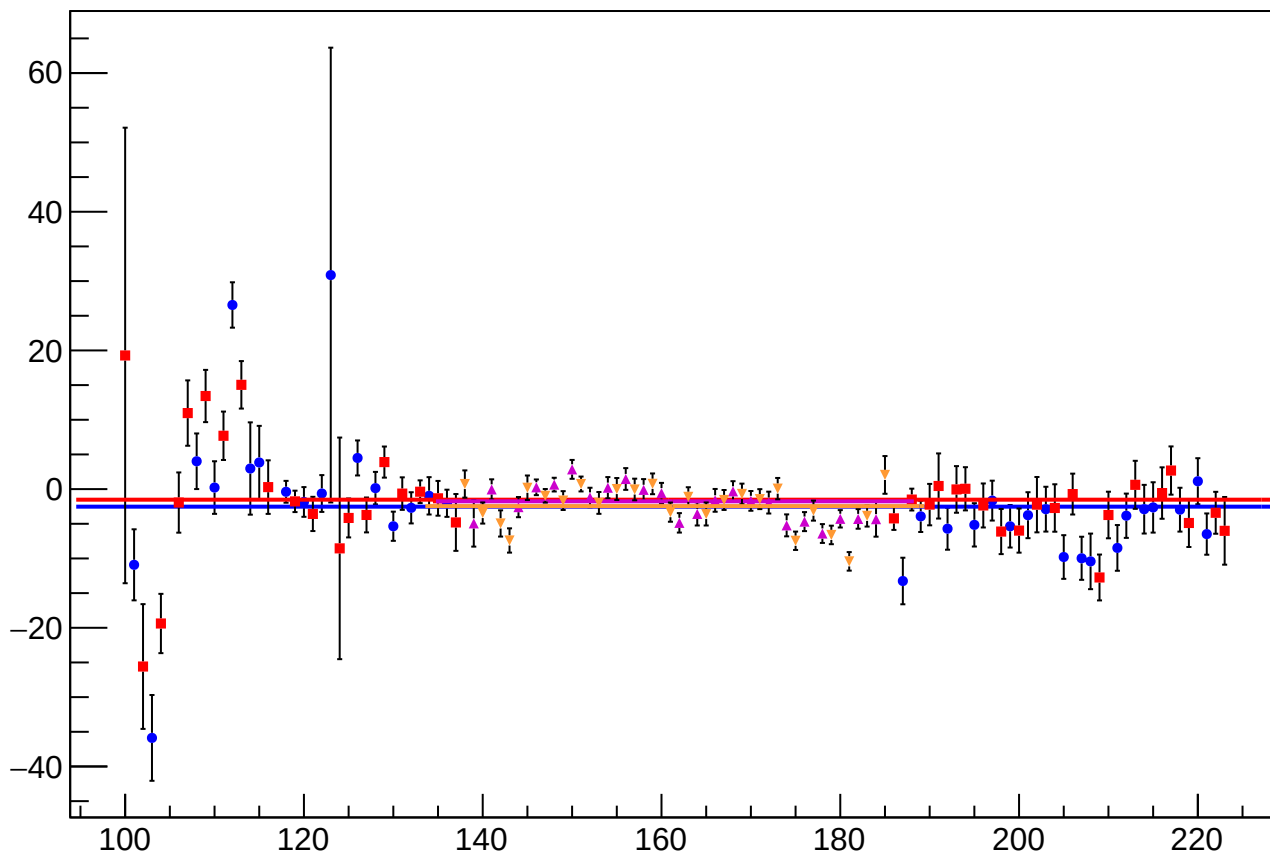
Right: 61.403 $\pm$ 0.334 χ^2 /NDF: 1397.5/37

In: 36.016 $\pm$ 0.300 χ^2 /NDF: 5884.8/40

Out: 36.327 $\pm$ 0.289 χ^2 /NDF: 6064.0/44

All: 36.178 $\pm$ 0.208 χ^2 /NDF: 11949.4/85

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.531 ± 0.494 χ^2/NDF : 165.7/34

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.525 ± 0.464 χ^2/NDF : 111.6/38

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

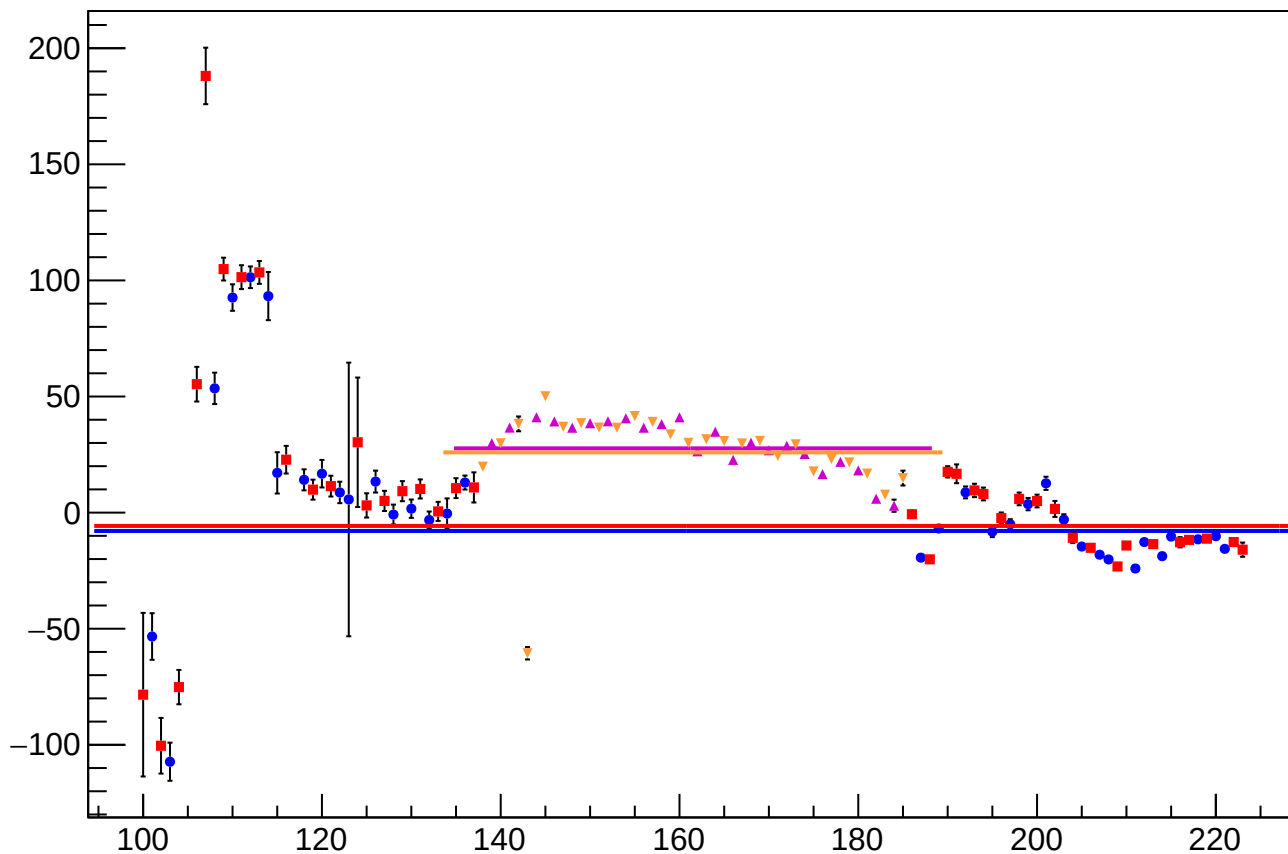
Right: -1.997 ± 0.338 χ^2/NDF : 279.5/73

In: -1.969 ± 0.258 χ^2/NDF : 234.9/57

Out: -2.191 ± 0.247 χ^2/NDF : 220.5/63

All: -2.084 ± 0.178 χ^2/NDF : 455.7/121

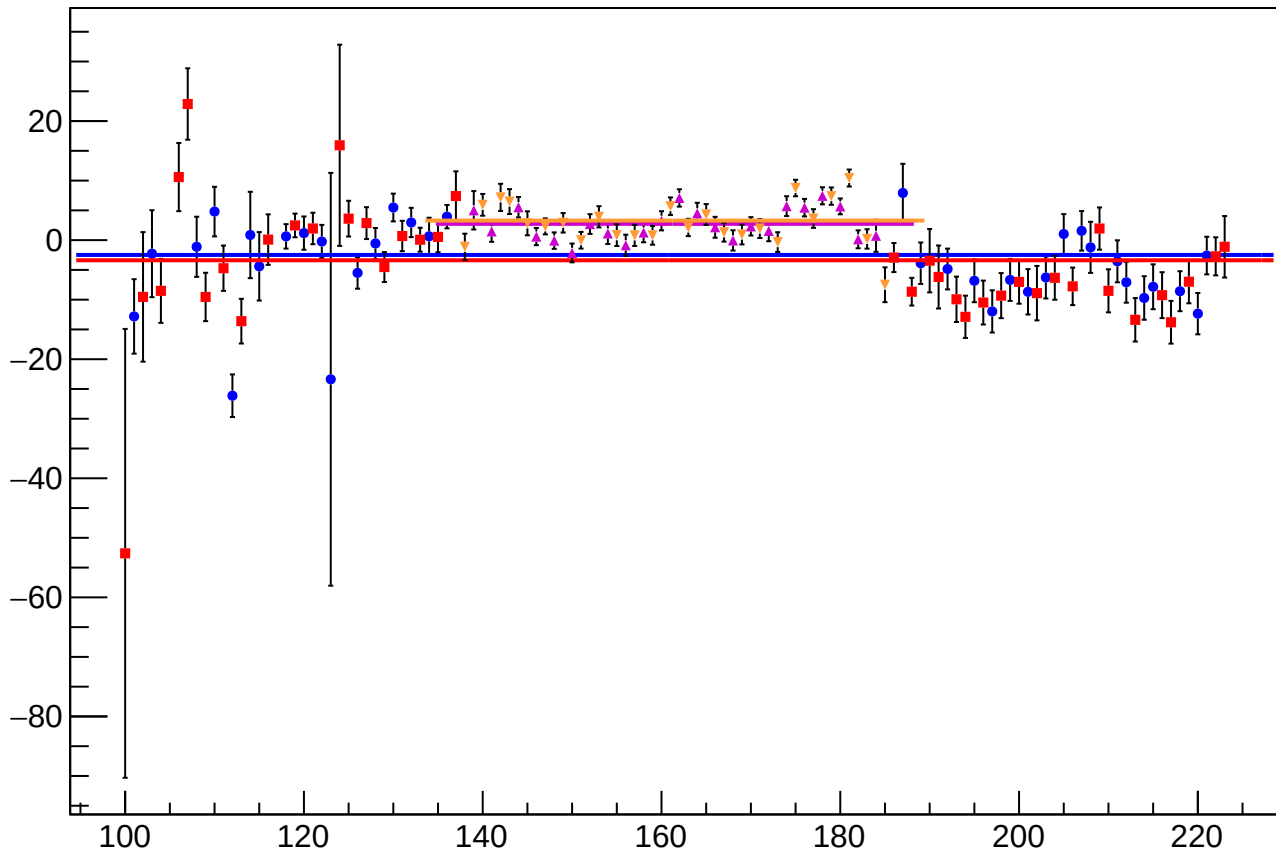
reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -7.908 ± 0.451 $\chi^2/\text{NDF}: 1726.4/34$
 Left Out: 25.938 ± 0.372 $\chi^2/\text{NDF}: 1711.6/24$
 Right Out: -5.727 ± 0.406 $\chi^2/\text{NDF}: 2720.4/38$
 Left In: 27.677 ± 0.378 $\chi^2/\text{NDF}: 803.9/22$

Left: 26.794 ± 0.265 $\chi^2/\text{NDF}: 2526.2/47$
 Right: -6.702 ± 0.302 $\chi^2/\text{NDF}: 4459.7/73$
 In: 12.986 ± 0.290 $\chi^2/\text{NDF}: 6184.7/57$
 Out: 11.461 ± 0.274 $\chi^2/\text{NDF}: 7738.6/63$
 All: 12.182 ± 0.199 $\chi^2/\text{NDF}: 13937.9/121$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -2.485 ± 0.561 $\chi^2/\text{NDF}: 125.9/34$

Left Out: 3.283 ± 0.331 $\chi^2/\text{NDF}: 102.3/24$

Right Out: -3.385 ± 0.544 $\chi^2/\text{NDF}: 128.8/38$

Left In: 2.738 ± 0.341 $\chi^2/\text{NDF}: 64.5/22$

Left: 3.018 ± 0.238 $\chi^2/\text{NDF}: 168.1/47$

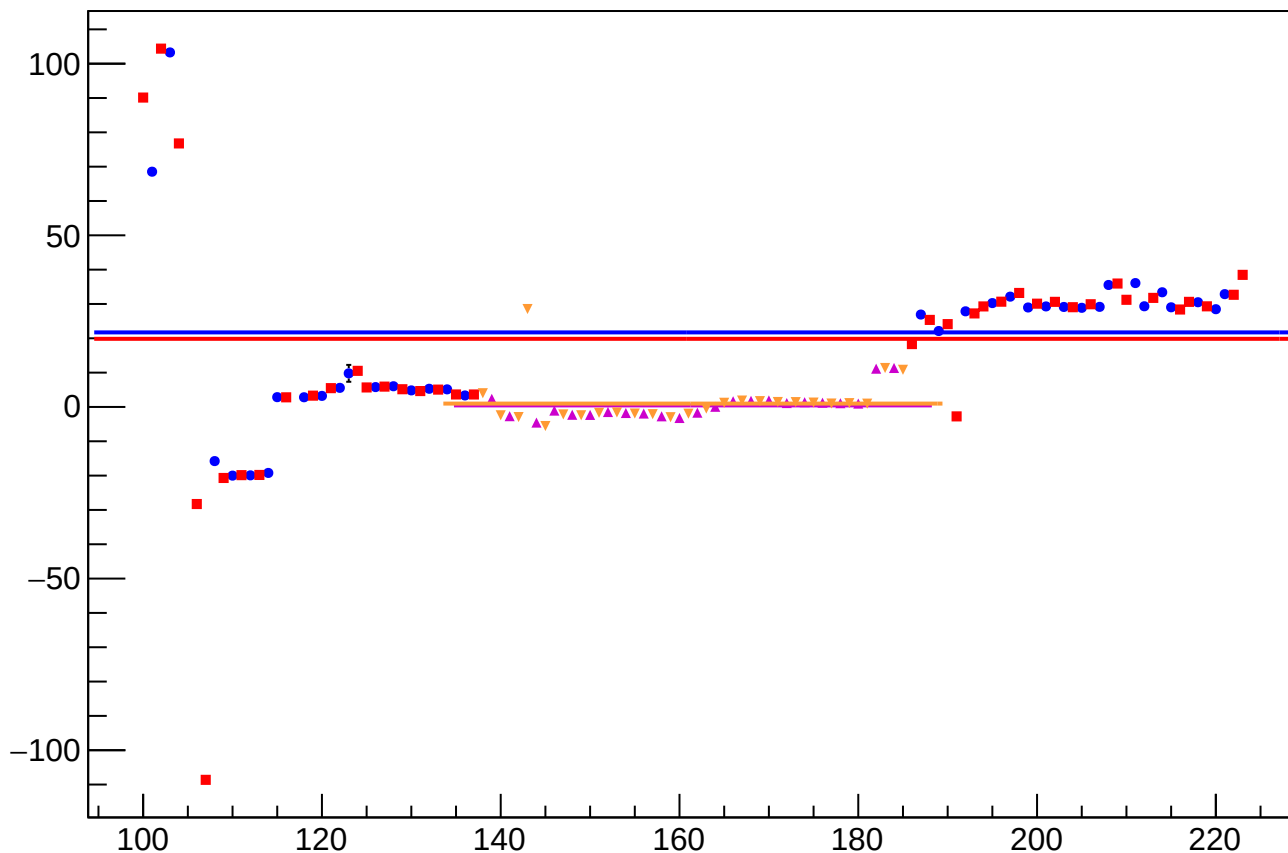
Right: -2.949 ± 0.391 $\chi^2/\text{NDF}: 256.0/73$

In: 1.328 ± 0.292 $\chi^2/\text{NDF}: 253.6/57$

Out: 1.479 ± 0.283 $\chi^2/\text{NDF}: 340.6/63$

All: 1.406 ± 0.203 $\chi^2/\text{NDF}: 594.3/121$

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 21.719 $\pm$ 0.027 χ^2 /NDF: 521082.4/34

Left Out: 0.979 $\pm$ 0.015 χ^2 /NDF: 117391.3/24

Right Out: 19.848 $\pm$ 0.026 χ^2 /NDF: 759536.0/38

Left In: 0.451 $\pm$ 0.015 χ^2 /NDF: 50699.8/22

Left: 0.719 $\pm$ 0.011 χ^2 /NDF: 168685.3/47

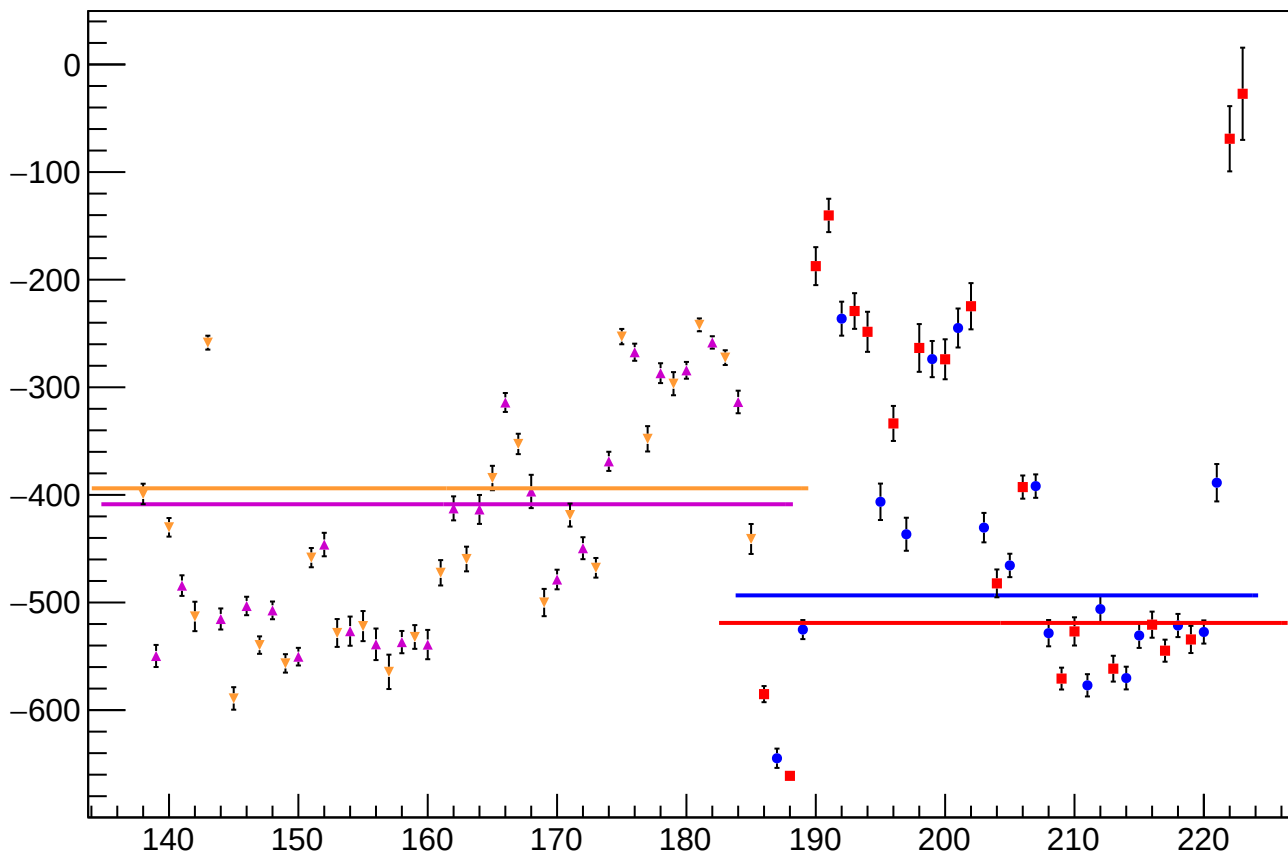
Right: 20.761 $\pm$ 0.019 χ^2 /NDF: 1283099.8/73

In: 5.723 $\pm$ 0.013 χ^2 /NDF: 1042643.4/57

Out: 5.717 $\pm$ 0.013 χ^2 /NDF: 1264301.5/63

All: 5.720 $\pm$ 0.009 χ^2 /NDF: 2306945.1/121

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -493.387 ± 2.829 $\chi^2/\text{NDF}: 1267.5/17$

Left Out: -393.871 ± 1.897 $\chi^2/\text{NDF}: 3772.8/24$

Right Out: -518.982 ± 2.572 $\chi^2/\text{NDF}: 3669.3/19$

Left In: -408.696 ± 1.979 $\chi^2/\text{NDF}: 3062.9/22$

Left: -400.970 ± 1.369 $\chi^2/\text{NDF}: 6864.9/47$

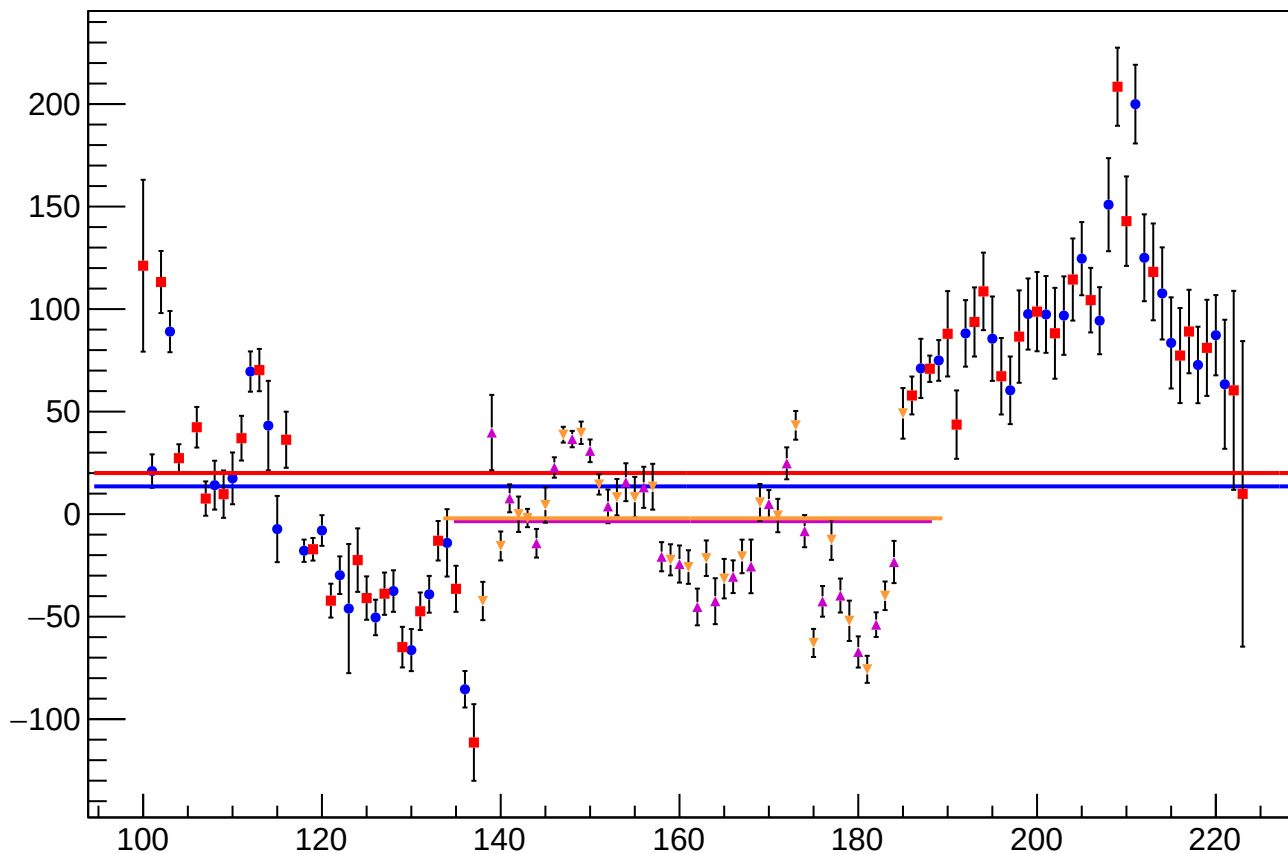
Right: -507.401 ± 1.903 $\chi^2/\text{NDF}: 4981.7/37$

In: -436.523 ± 1.622 $\chi^2/\text{NDF}: 4932.1/40$

Out: -437.959 ± 1.527 $\chi^2/\text{NDF}: 8974.9/44$

All: -437.284 ± 1.112 $\chi^2/\text{NDF}: 13907.4/85$

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.531+/-2.047 χ^2/NDF : 896.4/34

Left Out: -2.037+/-1.424 χ^2/NDF : 563.8/24

Right Out: 20.056+/-1.913 χ^2/NDF : 867.4/38

Left In: -3.420+/-1.520 χ^2/NDF : 451.0/22

Left: -2.683+/-1.039 χ^2/NDF : 1015.2/47

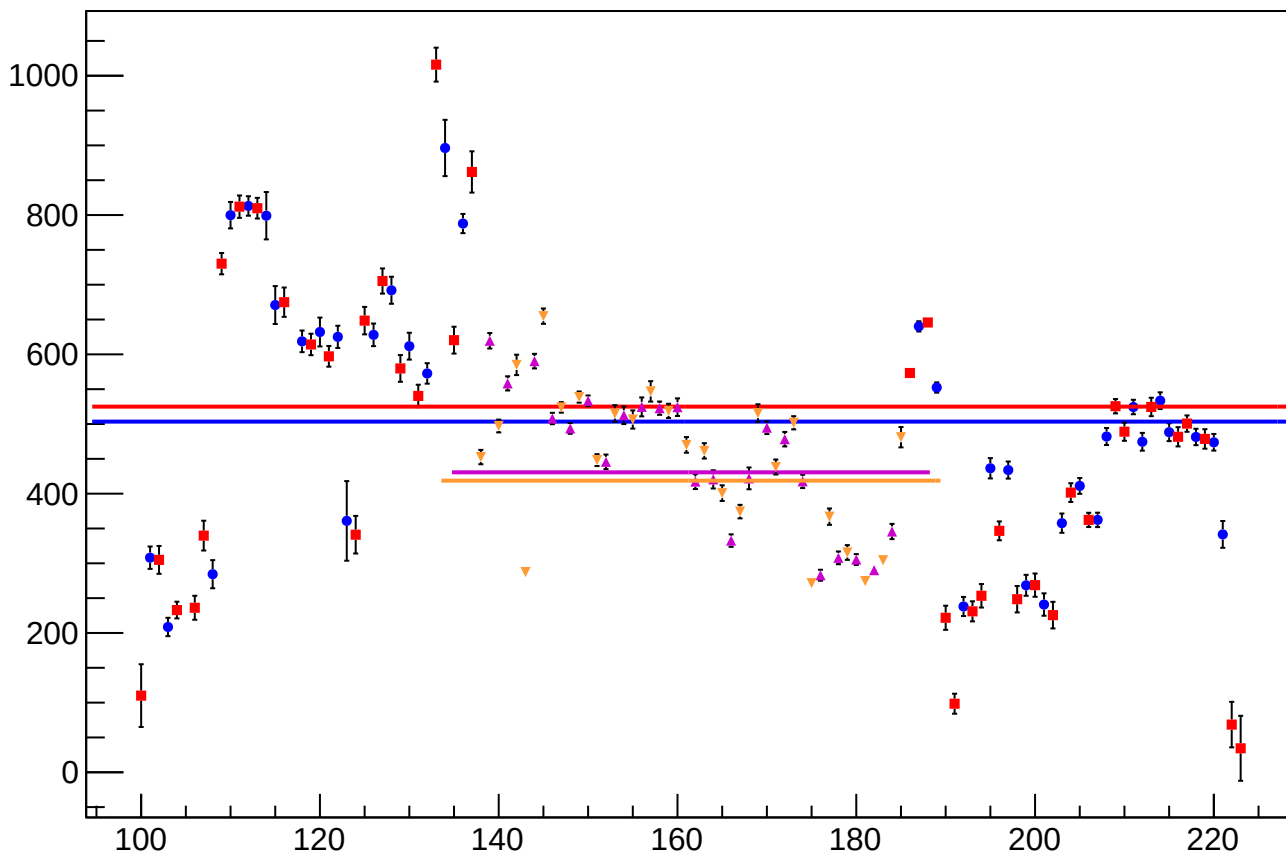
Right: 17.014+/-1.398 χ^2/NDF : 1769.1/73

In: 2.604+/-1.220 χ^2/NDF : 1391.5/57

Out: 5.840+/-1.142 χ^2/NDF : 1516.9/63

All: 4.328+/-0.834 χ^2/NDF : 2912.2/121

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 503.442 $\pm$ 2.303 χ^2 /NDF: 4288.8/34

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 524.965 $\pm$ 2.017 χ^2 /NDF: 7426.3/38

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

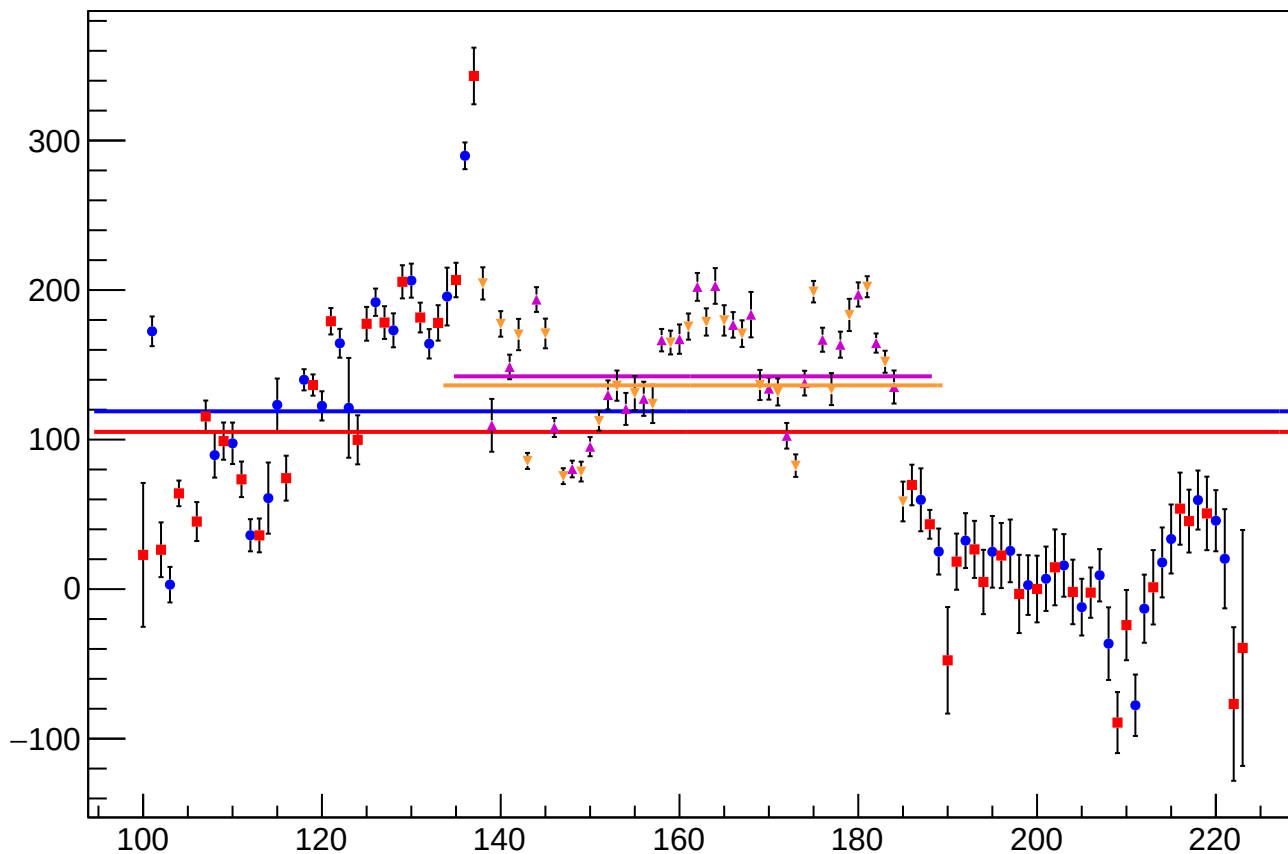
Right: 515.621 $\pm$ 1.517 χ^2 /NDF: 11764.5/73

In: 461.415 $\pm$ 1.497 χ^2 /NDF:7716.2/57

Out: 468.784 $\pm$ 1.385 χ^2 /NDF:12190.4/63

All: 465.386 $\pm$ 1.017 χ^2 /NDF: 19919.6/121

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 118.909 ± 2.372 $\chi^2/\text{NDF}: 1279.1/34$

Left Out: 136.258 ± 1.651 $\chi^2/\text{NDF}: 758.3/24$

Right Out: 105.143 ± 2.263 $\chi^2/\text{NDF}: 1135.7/38$

Left In: 142.296 ± 1.745 $\chi^2/\text{NDF}: 459.8/22$

Left: 139.111 ± 1.199 $\chi^2/\text{NDF}: 1224.4/47$

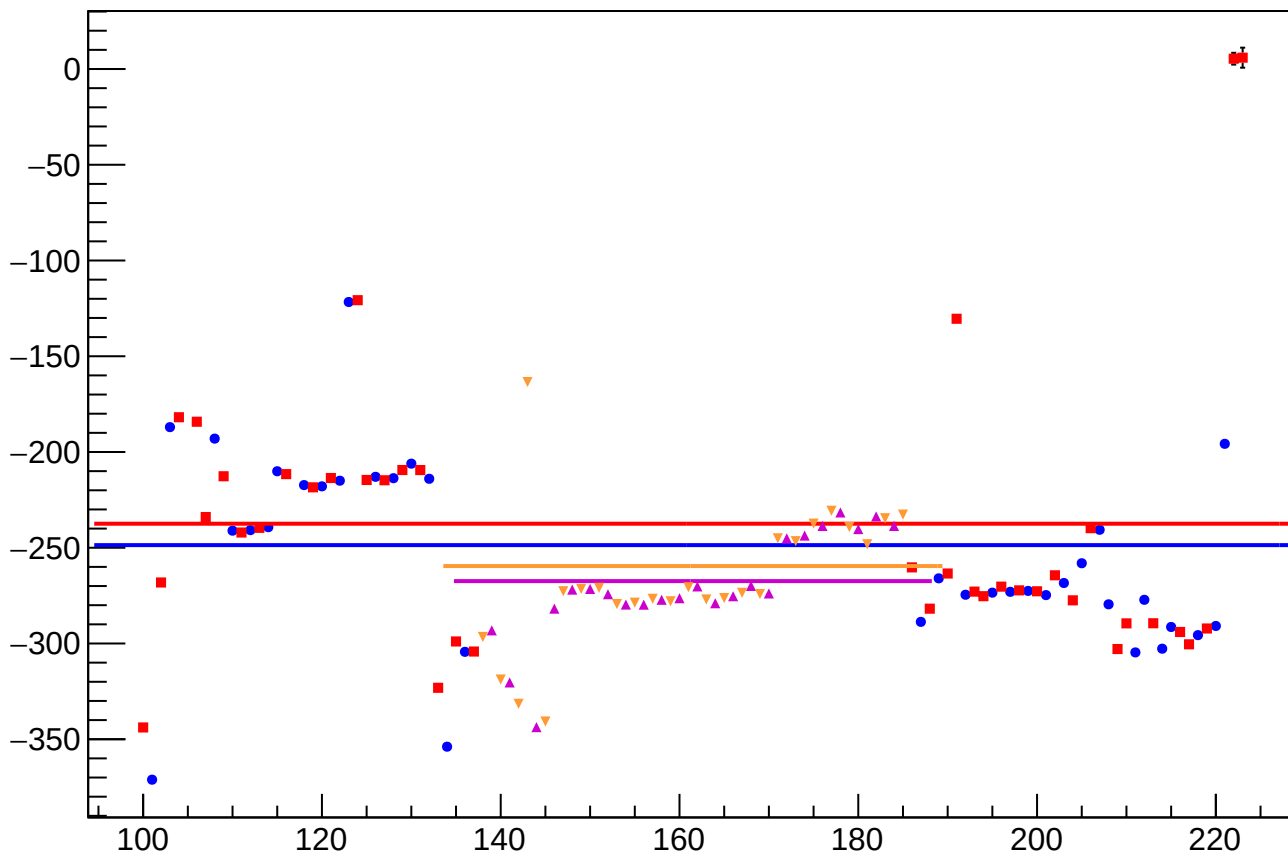
Right: 111.702 ± 1.637 $\chi^2/\text{NDF}: 2432.4/73$

In: 134.086 ± 1.405 $\chi^2/\text{NDF}: 1802.0/57$

Out: 125.451 ± 1.334 $\chi^2/\text{NDF}: 2017.3/63$

All: 129.542 ± 0.967 $\chi^2/\text{NDF}: 3839.2/121$

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -248.633 ± 0.118 $\chi^2/\text{NDF}: 176211.0/34$

Left Out: -259.557 ± 0.079 $\chi^2/\text{NDF}: 238235.2/24$

Right Out: -237.452 ± 0.111 $\chi^2/\text{NDF}: 197527.3/38$

Left In: -267.417 ± 0.082 $\chi^2/\text{NDF}: 98035.5/22$

Left: -263.361 ± 0.057 $\chi^2/\text{NDF}: 341051.4/47$

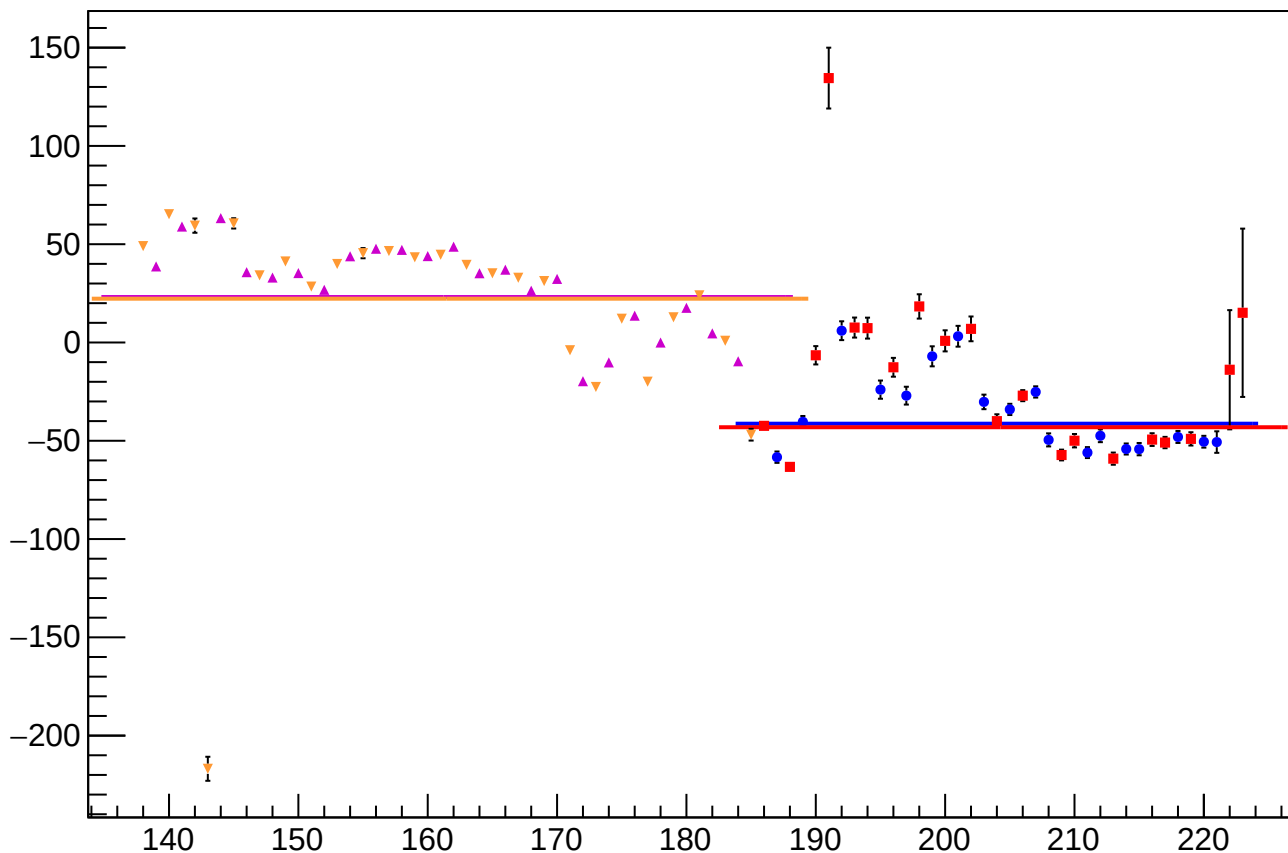
Right: -242.685 ± 0.081 $\chi^2/\text{NDF}: 378476.6/73$

In: -261.365 ± 0.067 $\chi^2/\text{NDF}: 291289.3/57$

Out: -252.124 ± 0.064 $\chi^2/\text{NDF}: 462027.7/63$

All: -256.548 ± 0.047 $\chi^2/\text{NDF}: 763163.1/121$

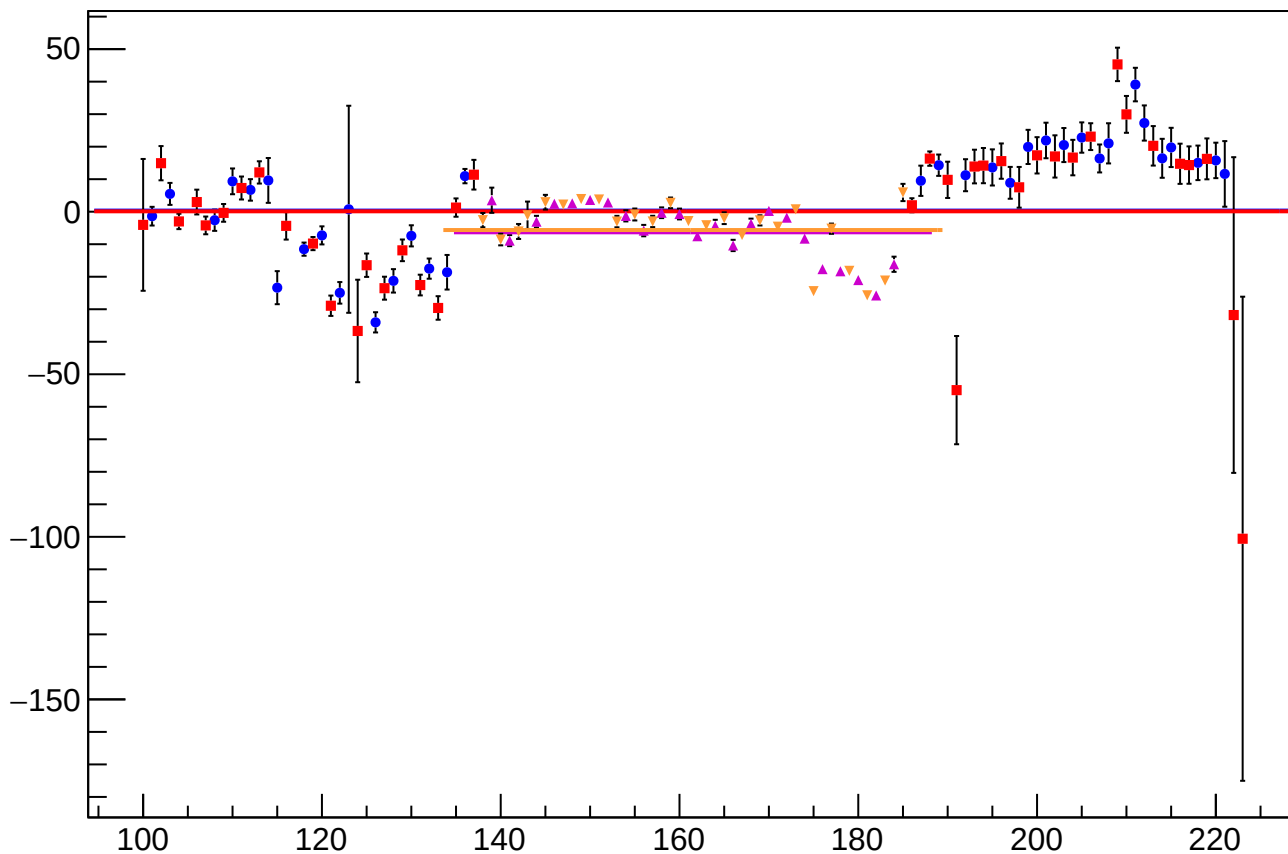
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -41.318 ± 0.801 $\chi^2/\text{NDF}: 412.2/17$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -43.118 ± 0.740 $\chi^2/\text{NDF}: 926.1/19$
 Left In: 23.136 ± 0.401 $\chi^2/\text{NDF}: 2744.7/22$

Left: 22.705 ± 0.283 $\chi^2/\text{NDF}: 7918.0/47$
 Right: -42.290 ± 0.543 $\chi^2/\text{NDF}: 1341.1/37$
 In: 10.197 ± 0.359 $\chi^2/\text{NDF}: 8331.7/40$
 Out: 7.552 ± 0.351 $\chi^2/\text{NDF}: 12154.0/44$
 All: 8.845 ± 0.251 $\chi^2/\text{NDF}: 20513.4/85$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.338 ± 0.660 χ^2/NDF : 612.5/34

Left Out: -5.642 ± 0.316 χ^2/NDF : 893.7/24

Right Out: 0.120 ± 0.616 χ^2/NDF : 634.2/38

Left In: -6.337 ± 0.321 χ^2/NDF : 783.0/22

Left: -5.983 ± 0.225 χ^2/NDF : 1679.1/47

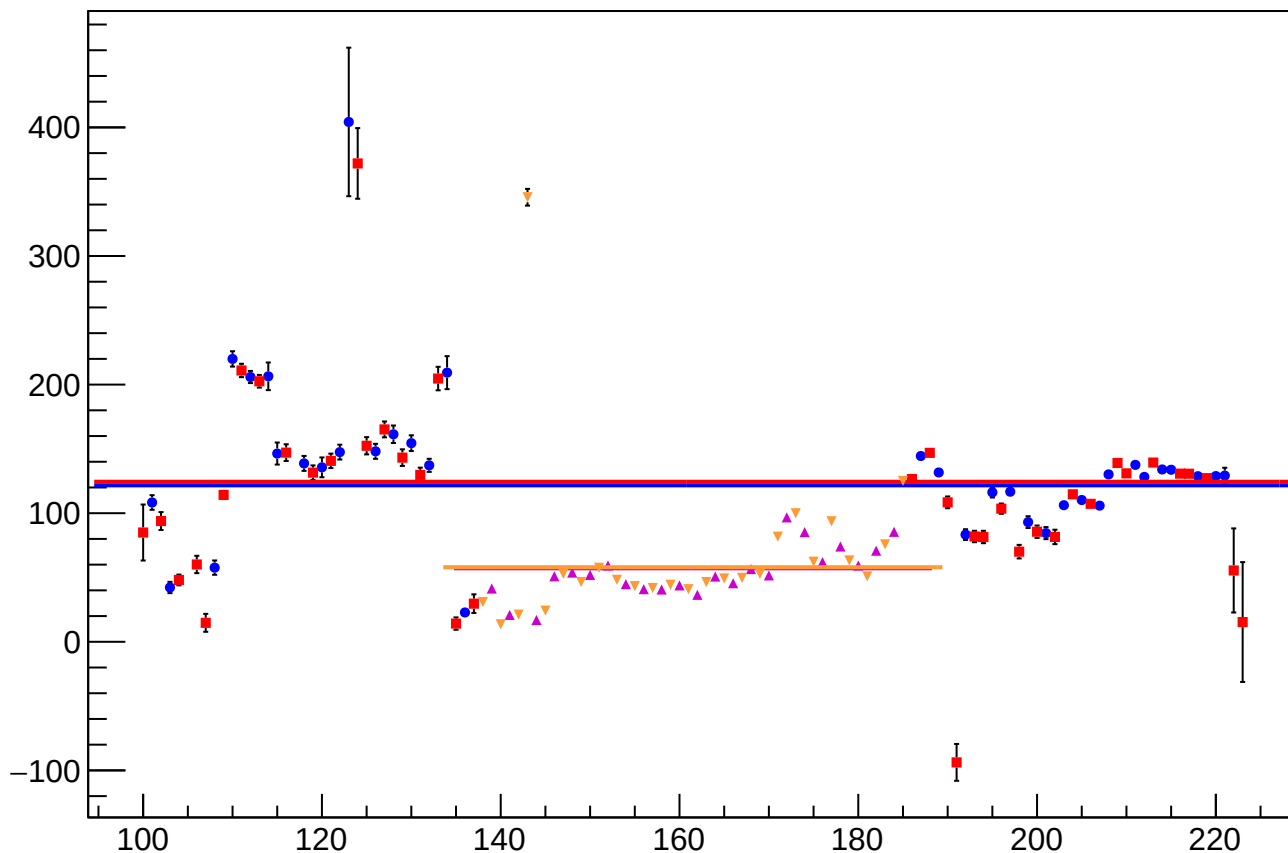
Right: 0.222 ± 0.450 χ^2/NDF : 1246.7/73

In: -5.060 ± 0.289 χ^2/NDF : 1478.1/57

Out: -4.444 ± 0.281 χ^2/NDF : 1597.3/63

All: -4.743 ± 0.201 χ^2/NDF : 3077.7/121

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 121.657 $\pm$ 0.684 χ^2 /NDF: 2614.2/34

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 124.478 $\pm$ 0.602 χ^2 /NDF: 3289.7/38

Left In: 57.139 $\pm$ 0.400 χ^2 /NDF:1803.4/22

Left: 57.566 $\pm$ 0.282 χ^2 /NDF: 6441.4/47

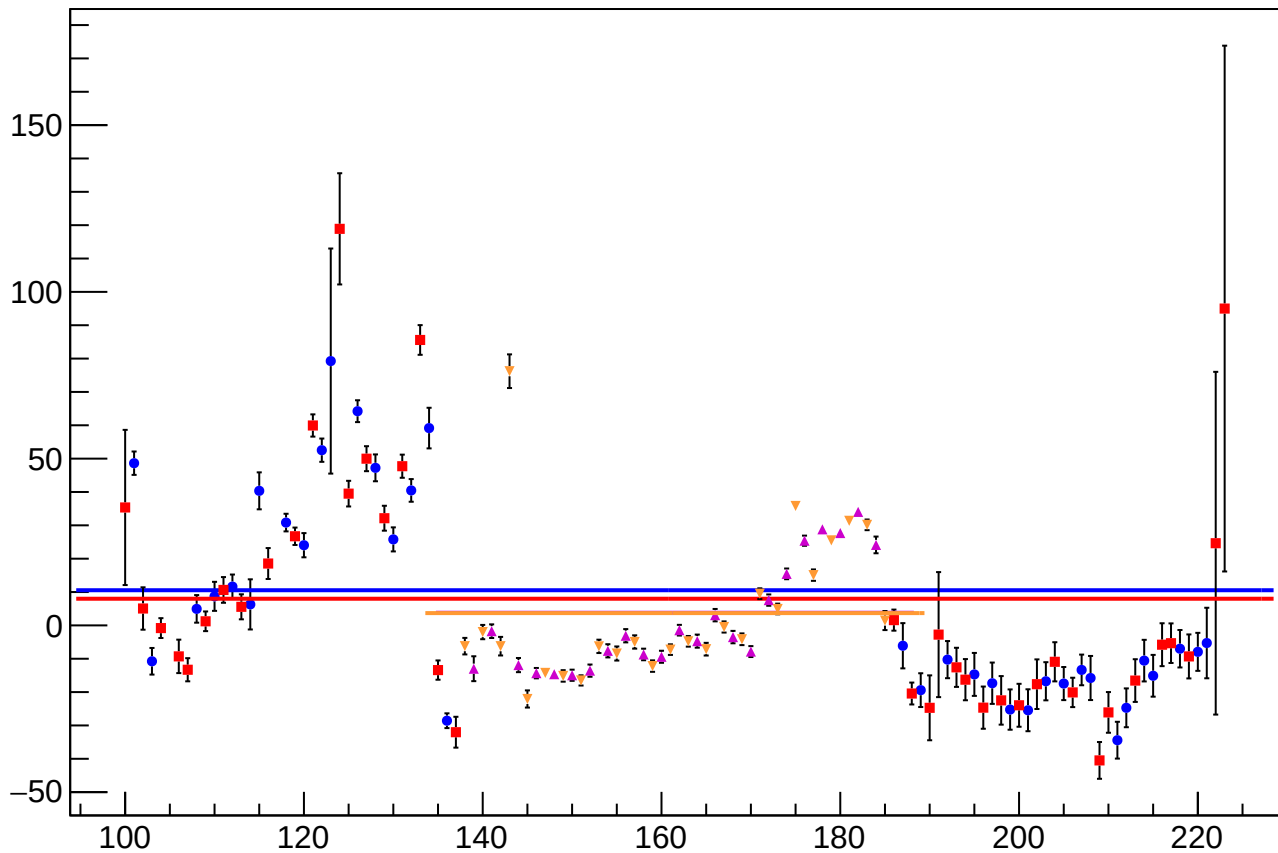
Right: 123.245 $\pm$ 0.452 χ^2 /NDF: 5913.5/73

In: 73.570 $\pm$ 0.345 χ^2 /NDF:11058.2/57

Out: 78.190 $\pm$ 0.332 χ^2 /NDF:16406.5/63

All: 75.968 $\pm$ 0.239 χ^2 /NDF: 27557.9/121

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.542 ± 0.755 χ^2/NDF : 1632.4/34

Left Out: 3.684 ± 0.357 χ^2/NDF : 2541.7/24

Right Out: 7.992 ± 0.725 χ^2/NDF : 1600.4/38

Left In: 3.786 ± 0.362 χ^2/NDF : 2198.8/22

Left: 3.734 ± 0.254 χ^2/NDF : 4740.5/47

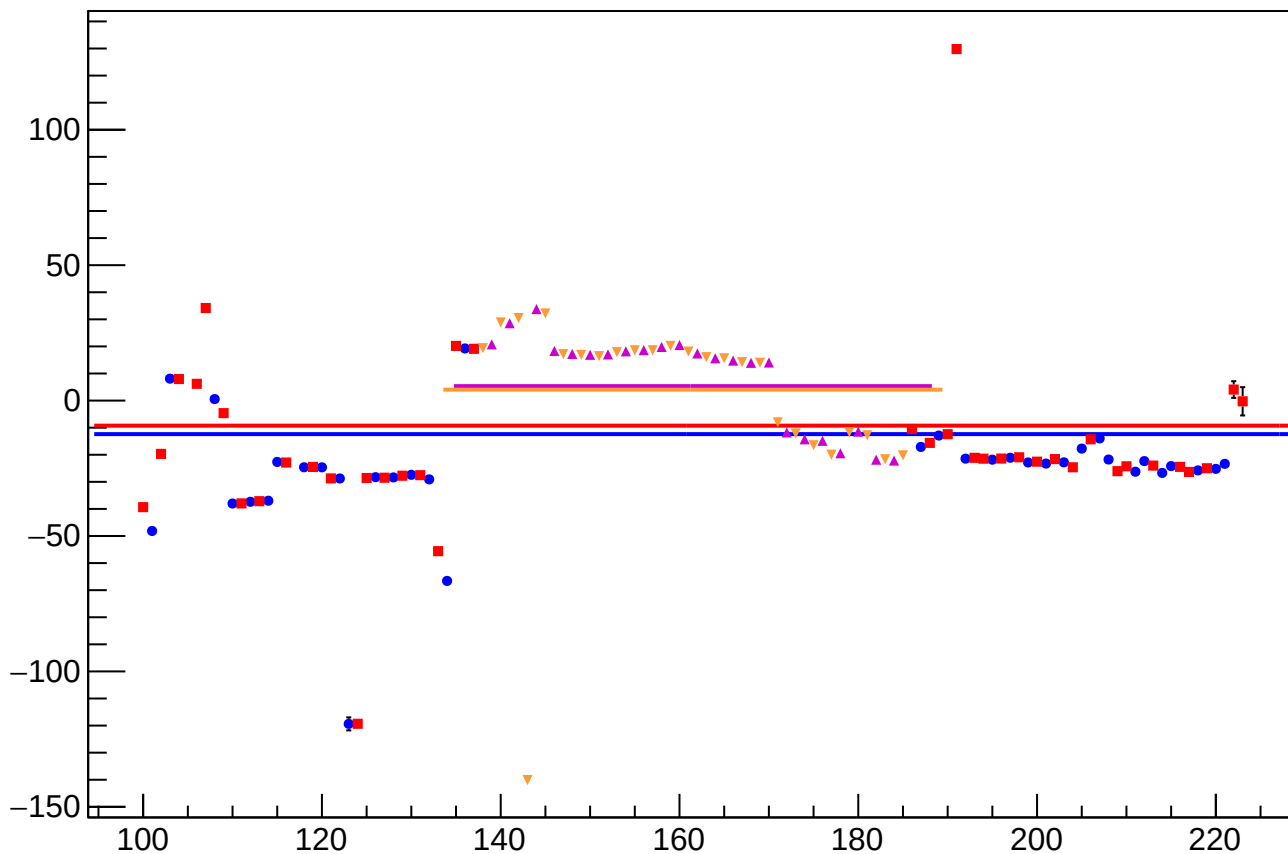
Right: 9.216 ± 0.523 χ^2/NDF : 3238.8/73

In: 5.048 ± 0.326 χ^2/NDF : 3896.4/57

Out: 4.524 ± 0.320 χ^2/NDF : 4170.5/63

All: 4.781 ± 0.228 χ^2/NDF : 8068.2/121

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -12.381 ± 0.036 χ^2/NDF : 310488.9/34

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -9.257 ± 0.035 χ^2/NDF : 403303.9/38

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

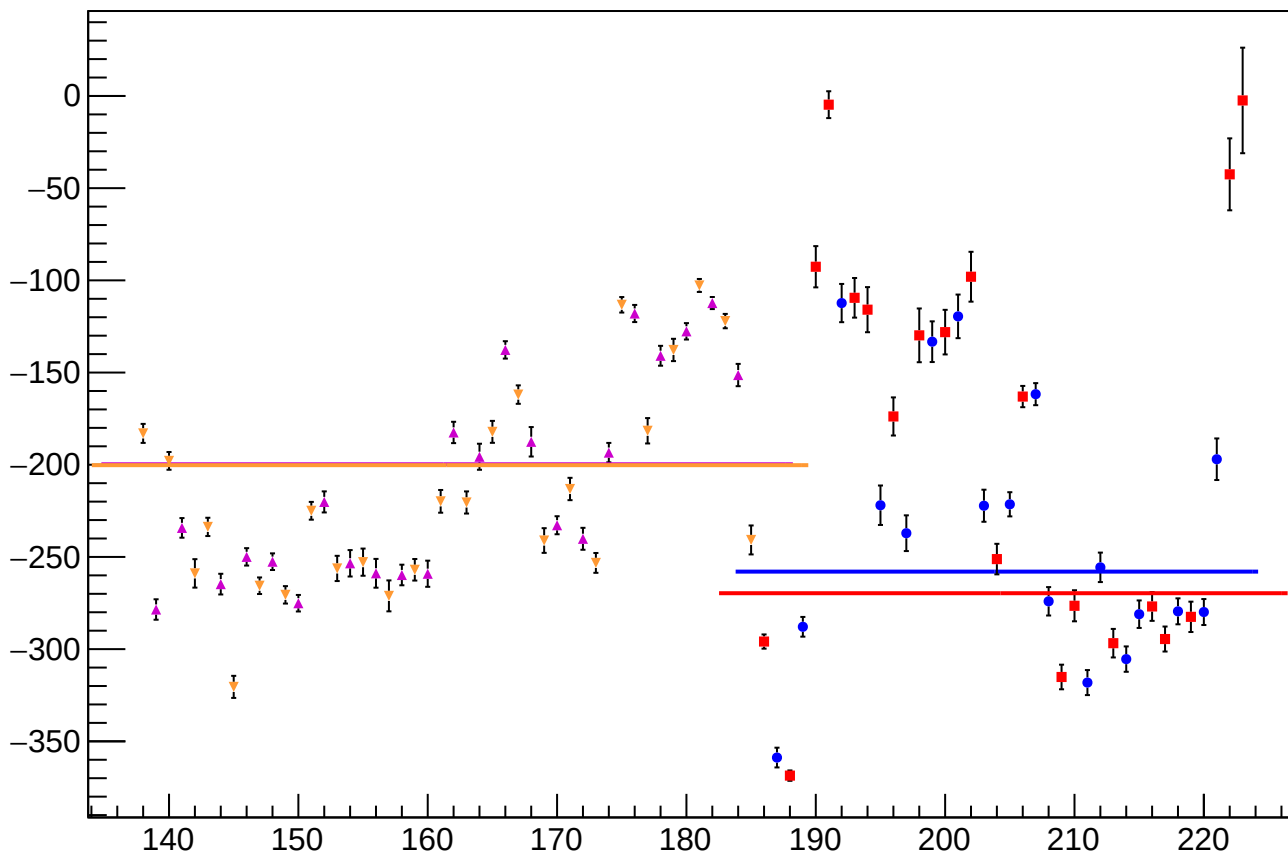
Right: -10.793 ± 0.025 χ^2/NDF : 717723.0/73

In: 2.215 ± 0.015 χ^2/NDF : 1593220.6/57

Out: 1.638 ± 0.015 χ^2/NDF : 1904907.6/63

All: 1.925 ± 0.011 χ^2/NDF : 3498883.2/121

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -257.958 $\pm$ 1.768 χ^2 /NDF: 1359.0/17

Left Out: -200.228 $\pm$ 1.078 χ^2 /NDF:3225.0/24

Right Out: -269.674 $\pm$ 1.549 χ^2 /NDF: 4360.8/19

Left In: -199.739 $\pm$ 1.097 χ^2 /NDF:2968.0/22

Left: -199.988 $\pm$ 0.769 χ^2 /NDF: 6193.2/47

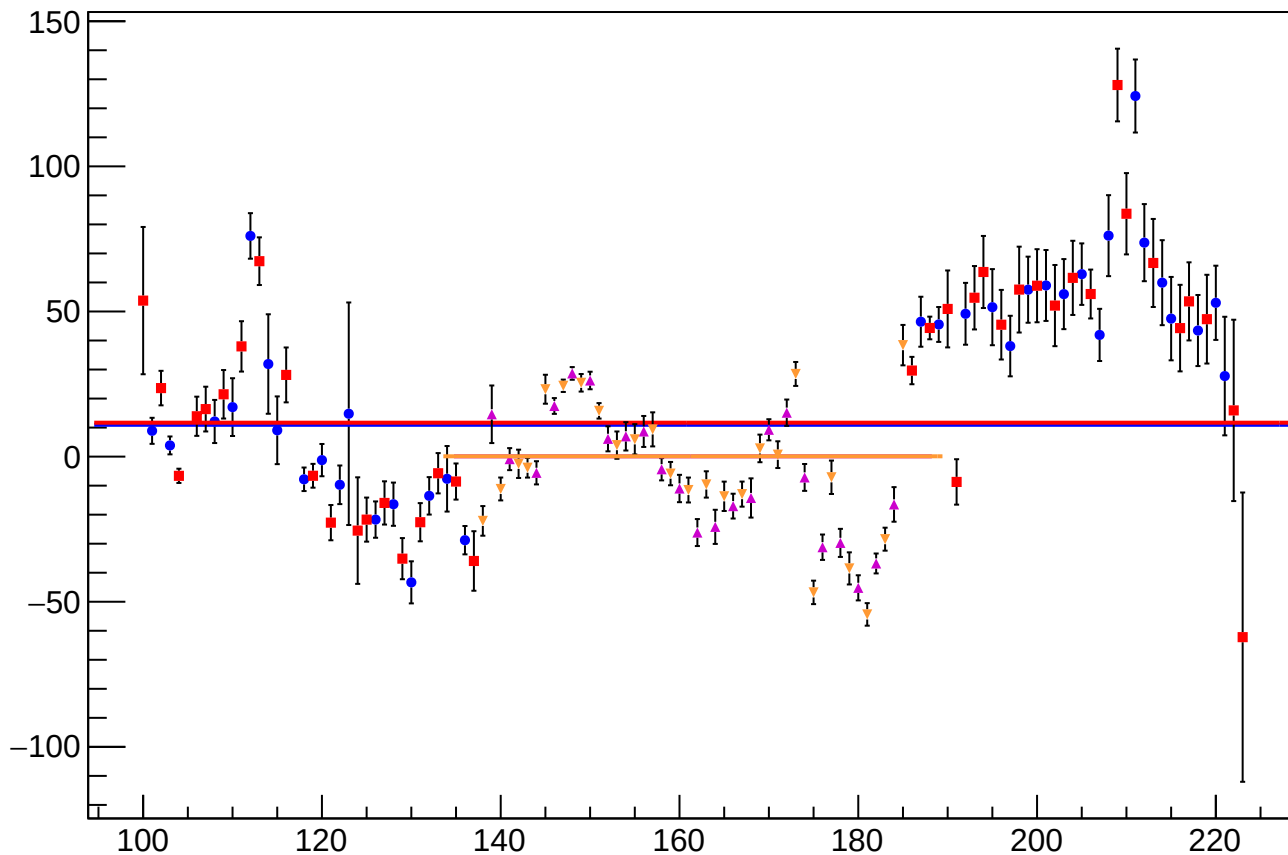
Right: -264.588 $\pm$ 1.165 χ^2 /NDF: 5744.7/37

In: -215.927 $\pm$ 0.932 χ^2 /NDF:5109.6/40

Out: -222.889 $\pm$ 0.885 χ^2 /NDF:8940.5/44

All: -219.591 $\pm$ 0.642 χ^2 /NDF: 14079.4/85

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.965 $\pm$ 1.278 χ^2 /NDF: 614.9/34

Left Out: 0.109 $\pm$ 0.807 χ^2 /NDF:831.2/24

Right Out: 11.687 $\pm$ 1.167 χ^2 /NDF: 684.9/38

Left In: 0.097 $\pm$ 0.838 χ^2 /NDF:715.5/22

Left: 0.103 $\pm$ 0.581 χ^2 /NDF: 1546.7/47

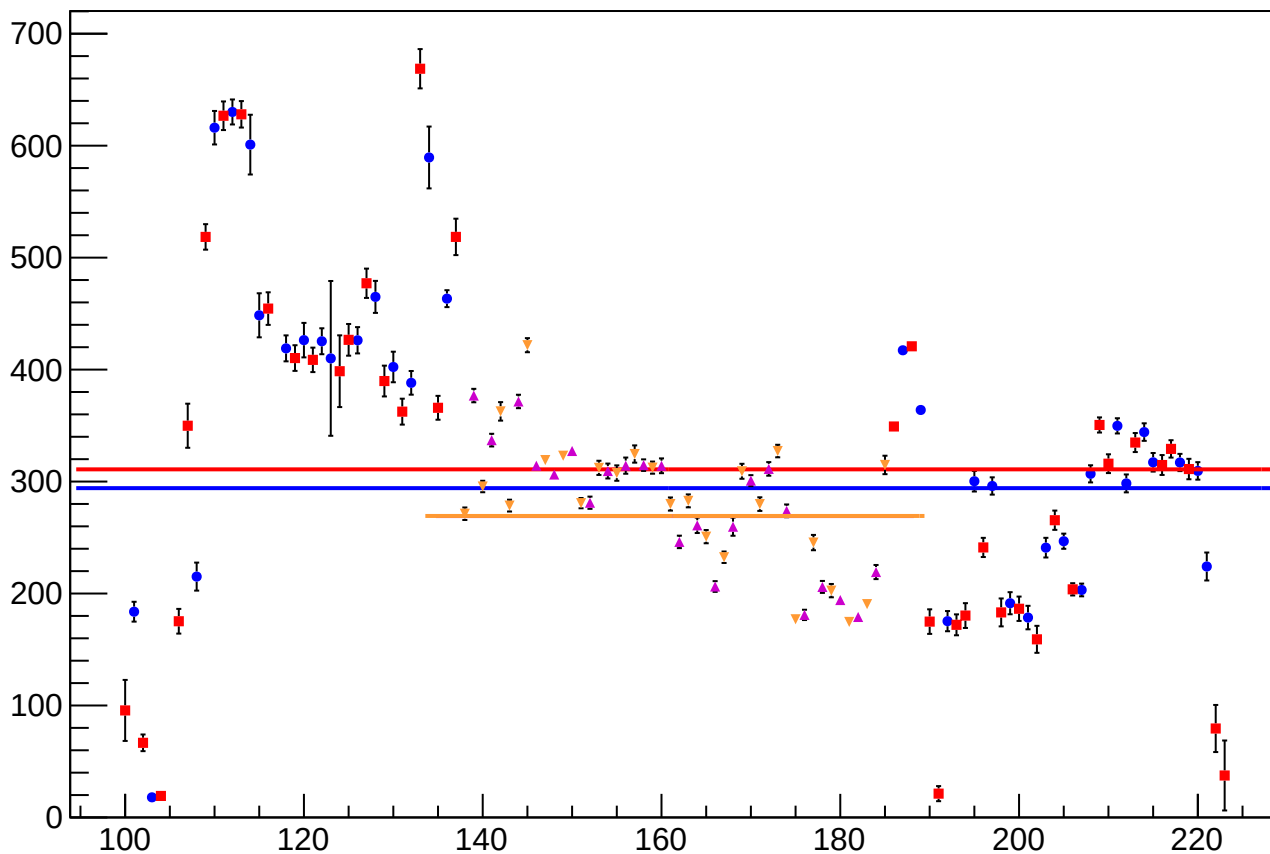
Right: 11.359 $\pm$ 0.862 χ^2 /NDF: 1300.0/73

In: 3.366 $\pm$ 0.701 χ^2 /NDF:1381.0/57

Out: 3.855 $\pm$ 0.664 χ^2 /NDF:1582.7/63

All: 3.624 $\pm$ 0.482 χ^2 /NDF: 2963.9/121

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 294.122+/-1.395 χ^2/NDF : 9689.3/34

Left Out: 269.278+/-1.078 χ^2/NDF : 3146.7/24

Right Out: 310.904+/-1.201 χ^2/NDF : 14607.2/38

Left In: 269.191+/-1.091 χ^2/NDF : 3170.2/22

Left: 269.235+/-0.767 χ^2/NDF : 6316.9/47

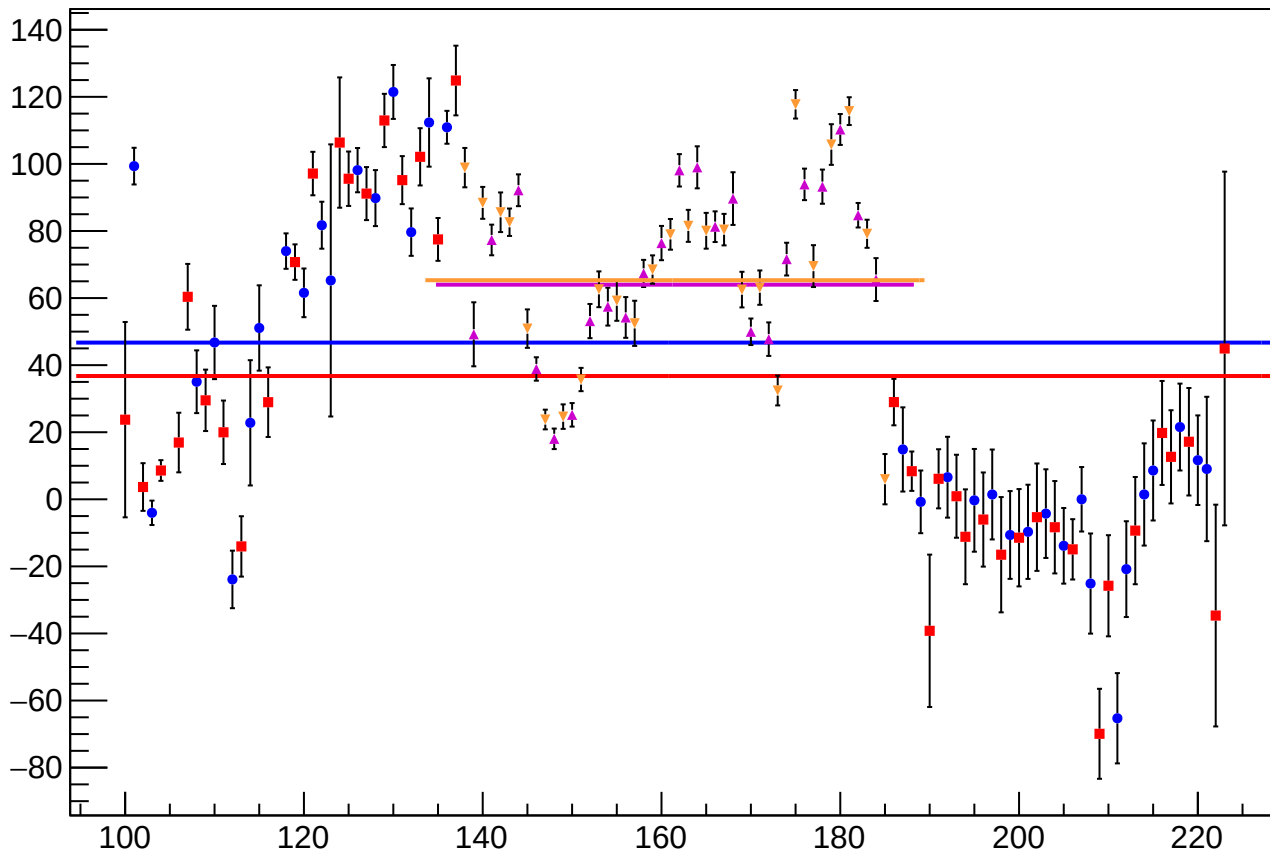
Right: 303.762+/-0.910 χ^2/NDF : 24379.7/73

In: 278.650+/-0.859 χ^2/NDF : 13057.8/57

Out: 287.850+/-0.802 χ^2/NDF : 18419.7/63

All: 283.567+/-0.586 χ^2/NDF : 31538.8/121

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 46.723+/-1.483 χ^2/NDF : 1116.8/34

Left Out: 65.323+/-0.935 χ^2/NDF :1007.1/24

Right Out: 36.760+/-1.401 χ^2/NDF : 970.3/38

Left In: 63.999+/-0.963 χ^2/NDF :799.5/22

Left: 64.681+/-0.671 χ^2/NDF : 1807.5/47

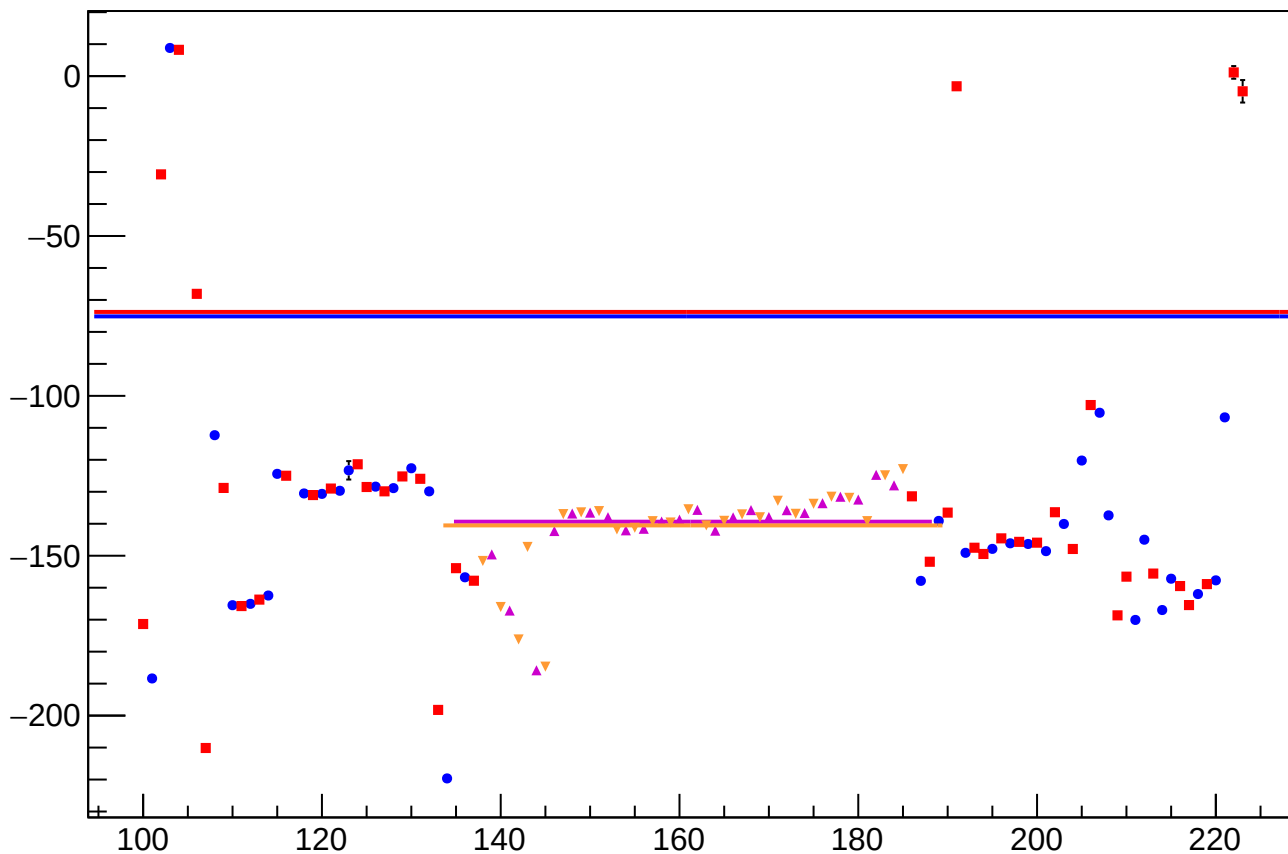
Right: 41.459+/-1.018 χ^2/NDF : 2110.9/73

In: 58.876+/-0.808 χ^2/NDF :2011.7/57

Out: 56.527+/-0.778 χ^2/NDF :2265.0/63

All: 57.657+/-0.560 χ^2/NDF : 4281.1/121

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -75.144 ± 0.061 $\chi^2/\text{NDF}: 1634435.7/34$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -73.748 ± 0.060 $\chi^2/\text{NDF}: 1467786.3/38$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

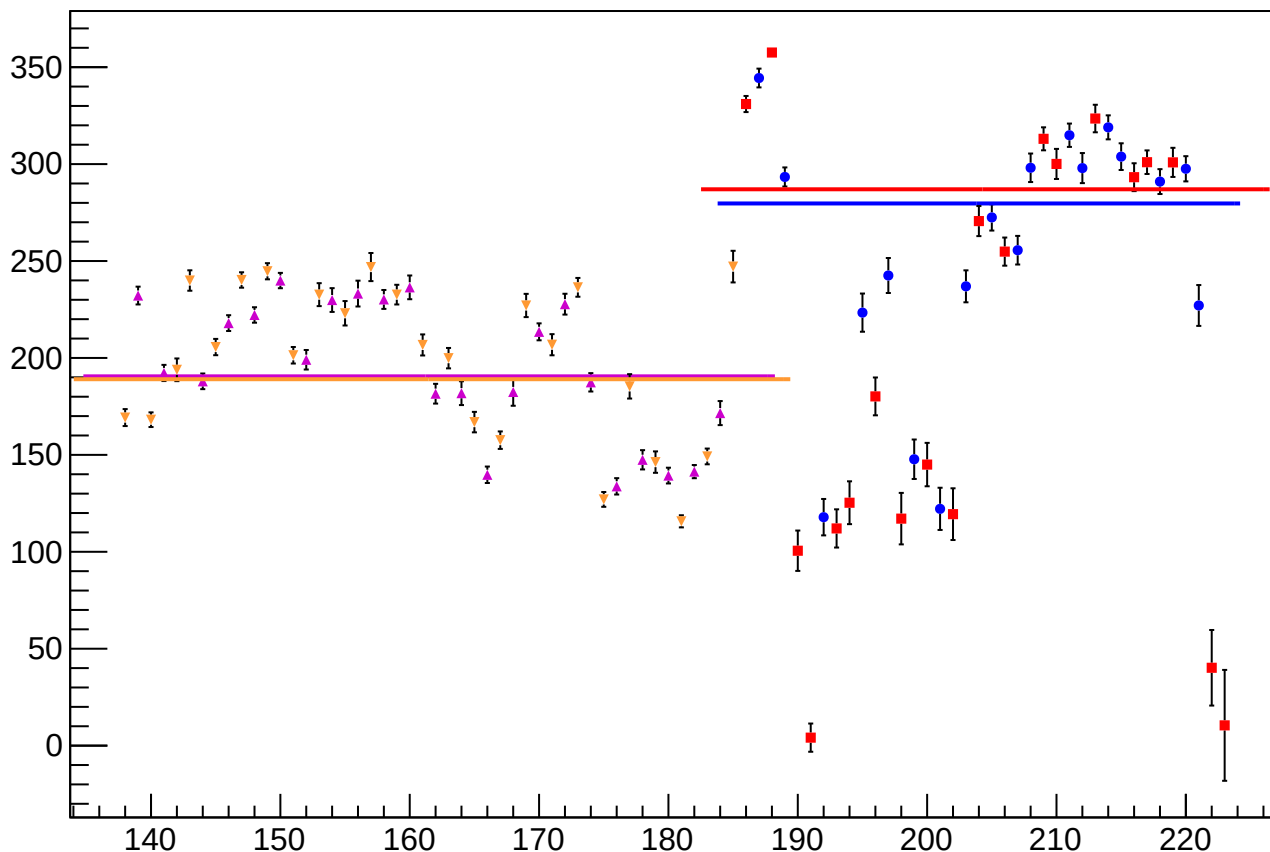
Right: -74.430 ± 0.043 $\chi^2/\text{NDF}: 3102488.8/73$

In: -116.760 ± 0.036 $\chi^2/\text{NDF}: 2413261.5/57$

Out: -116.650 ± 0.036 $\chi^2/\text{NDF}: 2348156.4/63$

All: -116.704 ± 0.025 $\chi^2/\text{NDF}: 4761422.6/12$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 279.695 ± 1.672 χ^2/NDF : 1083.2/17

Left Out: 189.030 ± 0.956 χ^2/NDF : 1980.9/24

Right Out: 287.007 ± 1.471 χ^2/NDF : 4203.6/19

Left In: 190.506 ± 0.975 χ^2/NDF : 1412.7/22

Left: 189.753 ± 0.683 χ^2/NDF : 3394.8/47

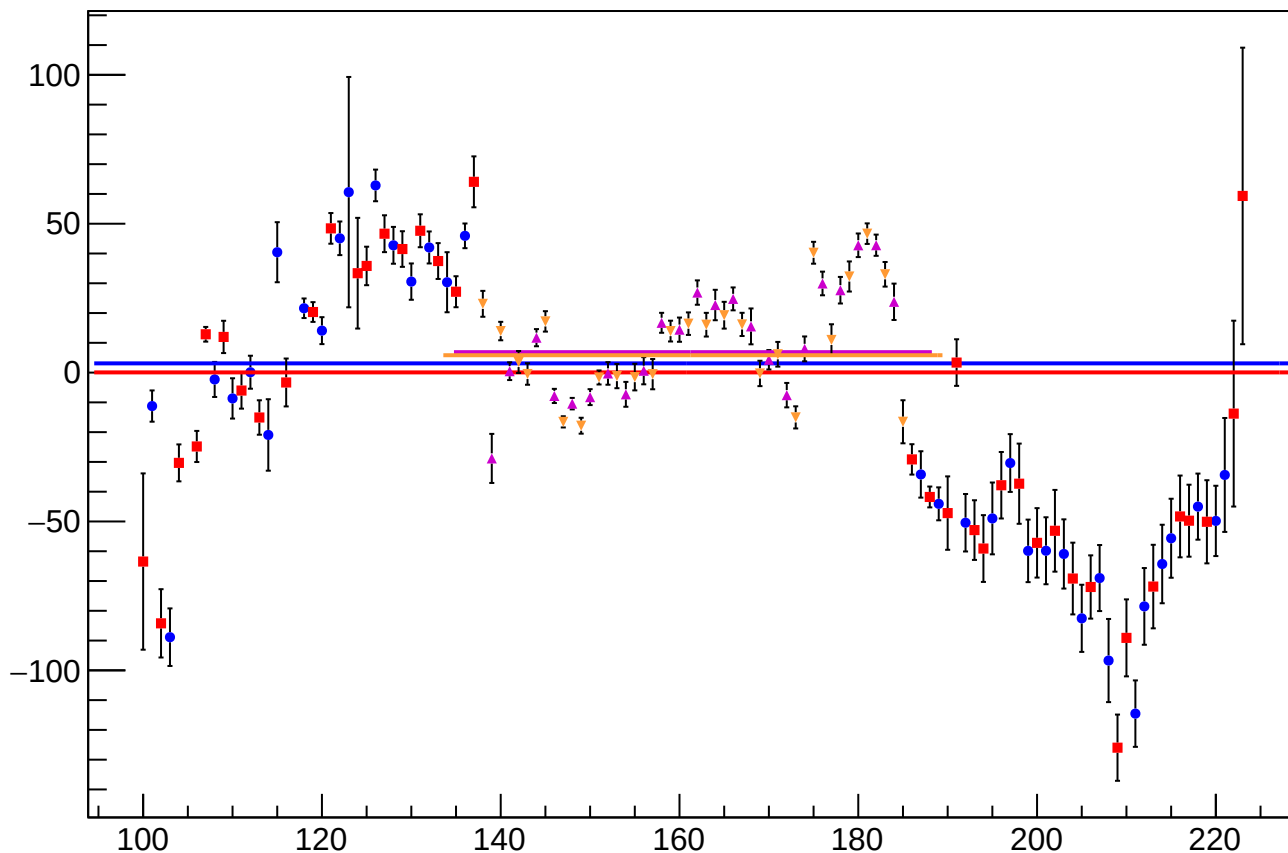
Right: 283.816 ± 1.104 χ^2/NDF : 5297.5/37

In: 213.139 ± 0.842 χ^2/NDF : 4619.0/40

Out: 218.116 ± 0.802 χ^2/NDF : 9303.3/44

All: 215.751 ± 0.581 χ^2/NDF : 13940.7/85

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.099 ± 1.214 $\chi^2/\text{NDF}: 1214.6/34$

Left Out: 5.834 ± 0.712 $\chi^2/\text{NDF}: 652.2/24$

Right Out: 0.065 ± 1.052 $\chi^2/\text{NDF}: 1234.6/38$

Left In: 6.862 ± 0.736 $\chi^2/\text{NDF}: 522.7/22$

Left: 6.331 ± 0.512 $\chi^2/\text{NDF}: 1176.0/47$

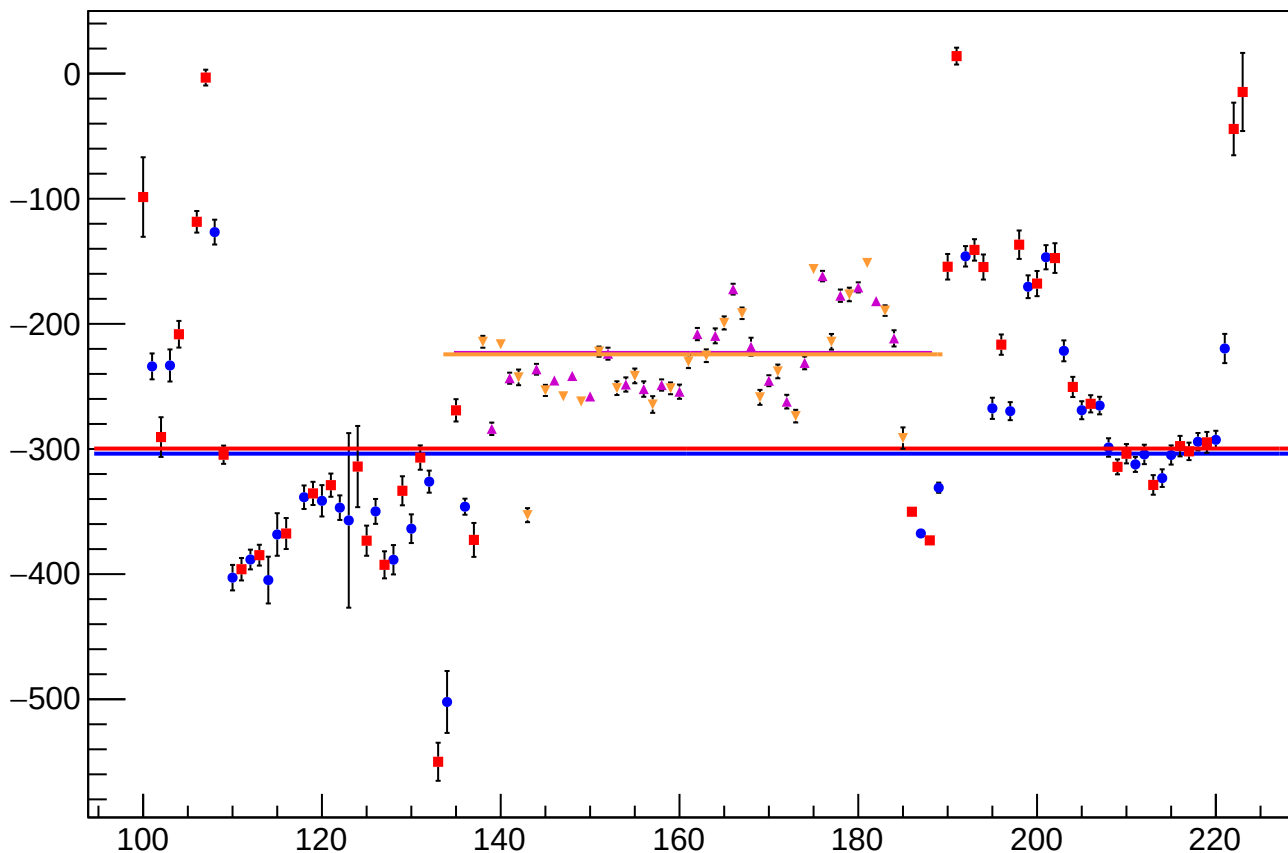
Right: 1.366 ± 0.795 $\chi^2/\text{NDF}: 2452.8/73$

In: 5.850 ± 0.630 $\chi^2/\text{NDF}: 1744.4/57$

Out: 4.021 ± 0.590 $\chi^2/\text{NDF}: 1907.4/63$

All: 4.876 ± 0.430 $\chi^2/\text{NDF}: 3656.3/121$

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -303.728 ± 1.355 $\chi^2/\text{NDF}: 2315.0/34$

Left Out: -224.364 ± 0.956 $\chi^2/\text{NDF}: 2103.2/24$

Right Out: -299.653 ± 1.141 $\chi^2/\text{NDF}: 8910.3/38$

Left In: -223.223 ± 0.969 $\chi^2/\text{NDF}: 1269.3/22$

Left: -223.801 ± 0.681 $\chi^2/\text{NDF}: 3373.2/47$

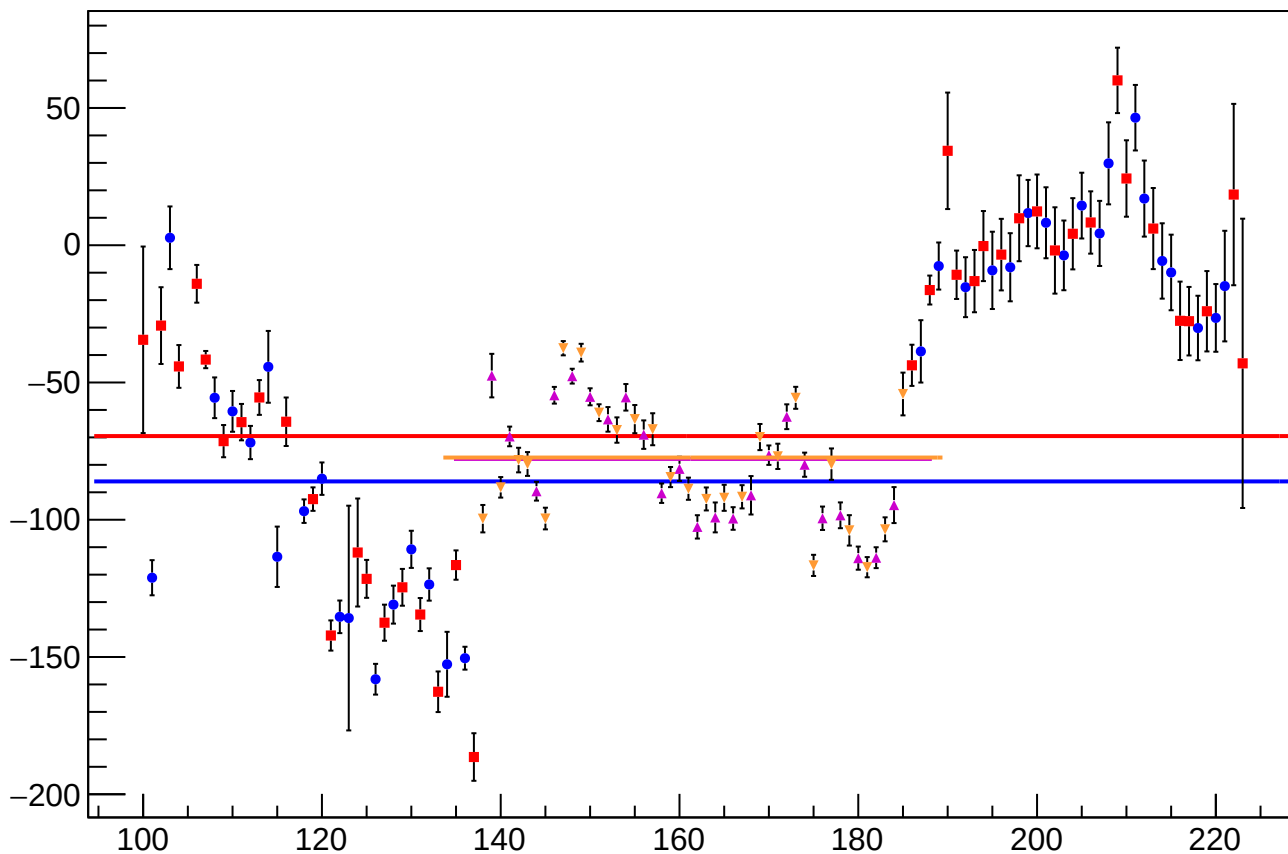
Right: -301.344 ± 0.873 $\chi^2/\text{NDF}: 11230.6/73$

In: -250.470 ± 0.788 $\chi^2/\text{NDF}: 5919.6/57$

Out: -255.421 ± 0.733 $\chi^2/\text{NDF}: 13571.8/63$

All: -253.126 ± 0.537 $\chi^2/\text{NDF}: 19512.6/121$

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -86.037 ± 1.403 $\chi^2/\text{NDF}: 1614.1/34$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -69.521 ± 1.254 $\chi^2/\text{NDF}: 1793.2/38$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

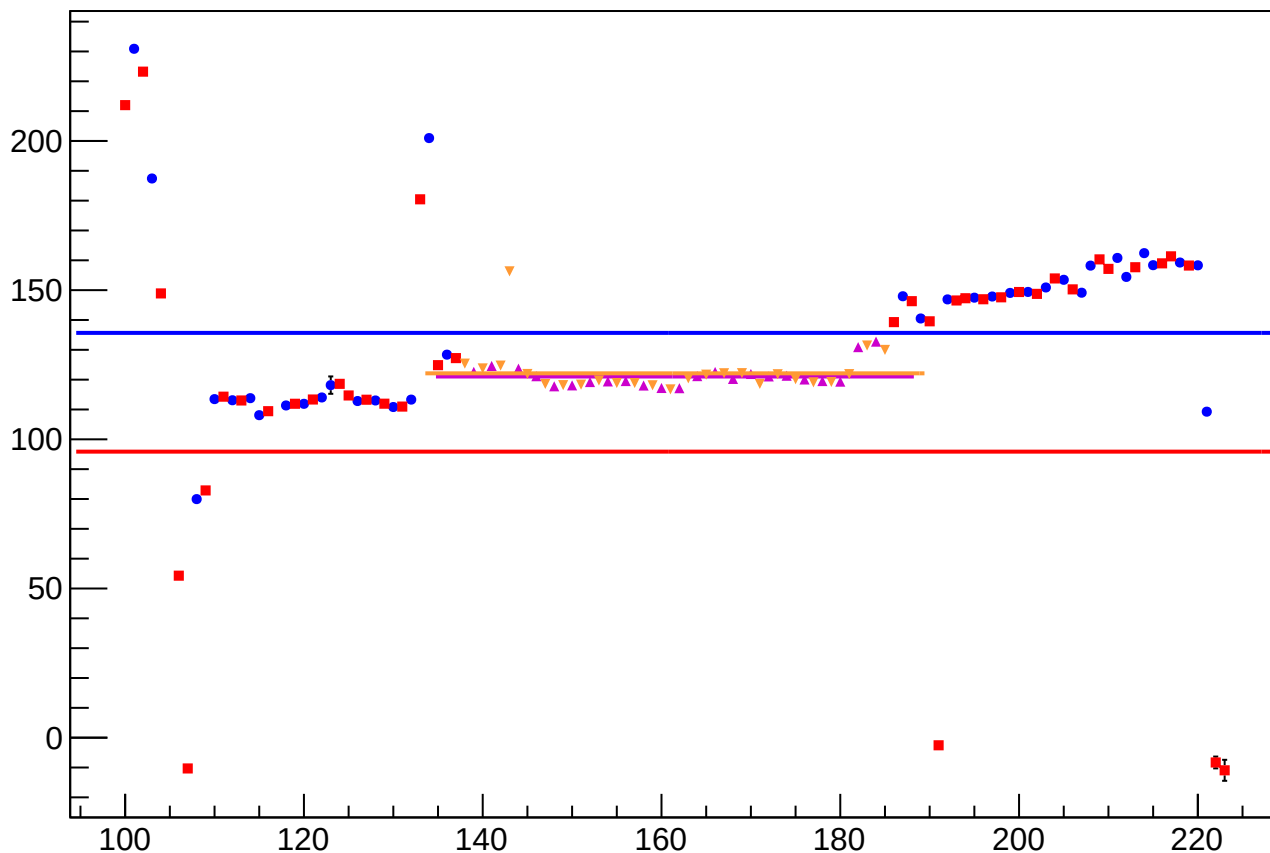
Right: -76.858 ± 0.935 $\chi^2/\text{NDF}: 3484.3/73$

In: -80.035 ± 0.726 $\chi^2/\text{NDF}: 2261.9/57$

Out: -74.974 ± 0.690 $\chi^2/\text{NDF}: 2666.6/63$

All: -77.377 ± 0.500 $\chi^2/\text{NDF}: 4954.0/121$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 135.675+/-0.071 χ^2/NDF : 214403.8/34

Left Out: 122.119+/-0.039 χ^2/NDF :30480.7/24

Right Out: 95.873+/-0.061 χ^2/NDF : 1184128.9/38

Left In: 121.055+/-0.040 χ^2/NDF :7931.6/22

Left: 121.591+/-0.028 χ^2/NDF : 38773.7/47

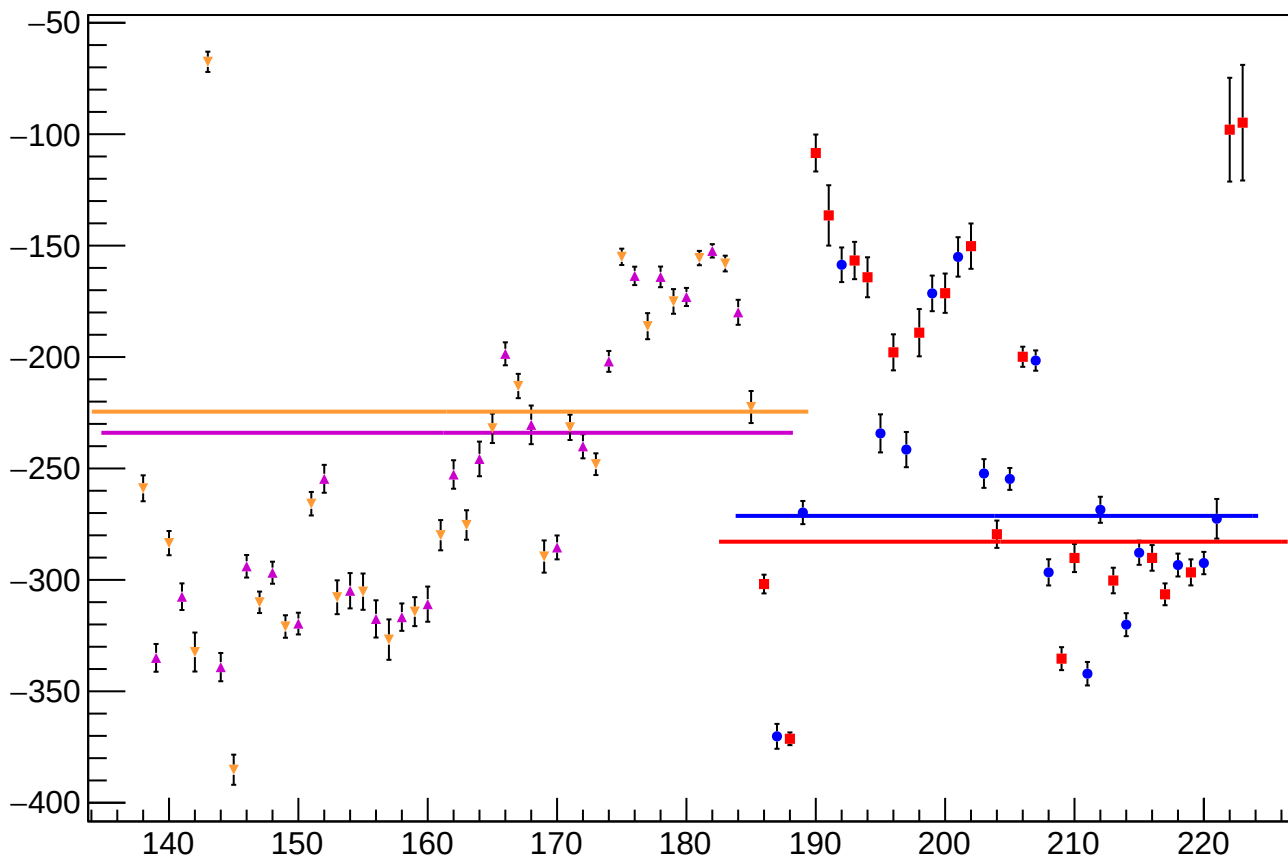
Right: 112.664+/-0.046 χ^2/NDF : 1578733.9/73

In: 124.520+/-0.035 χ^2/NDF :254422.6/57

Out: 114.371+/-0.033 χ^2/NDF :1345515.3/63

All: 119.203+/-0.024 χ^2/NDF : 1644732.3/121

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -271.279 ± 1.395 $\chi^2/\text{NDF}: 1475.1/17$

Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$

Right Out: -282.859 ± 1.353 $\chi^2/\text{NDF}: 3060.3/19$

Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$

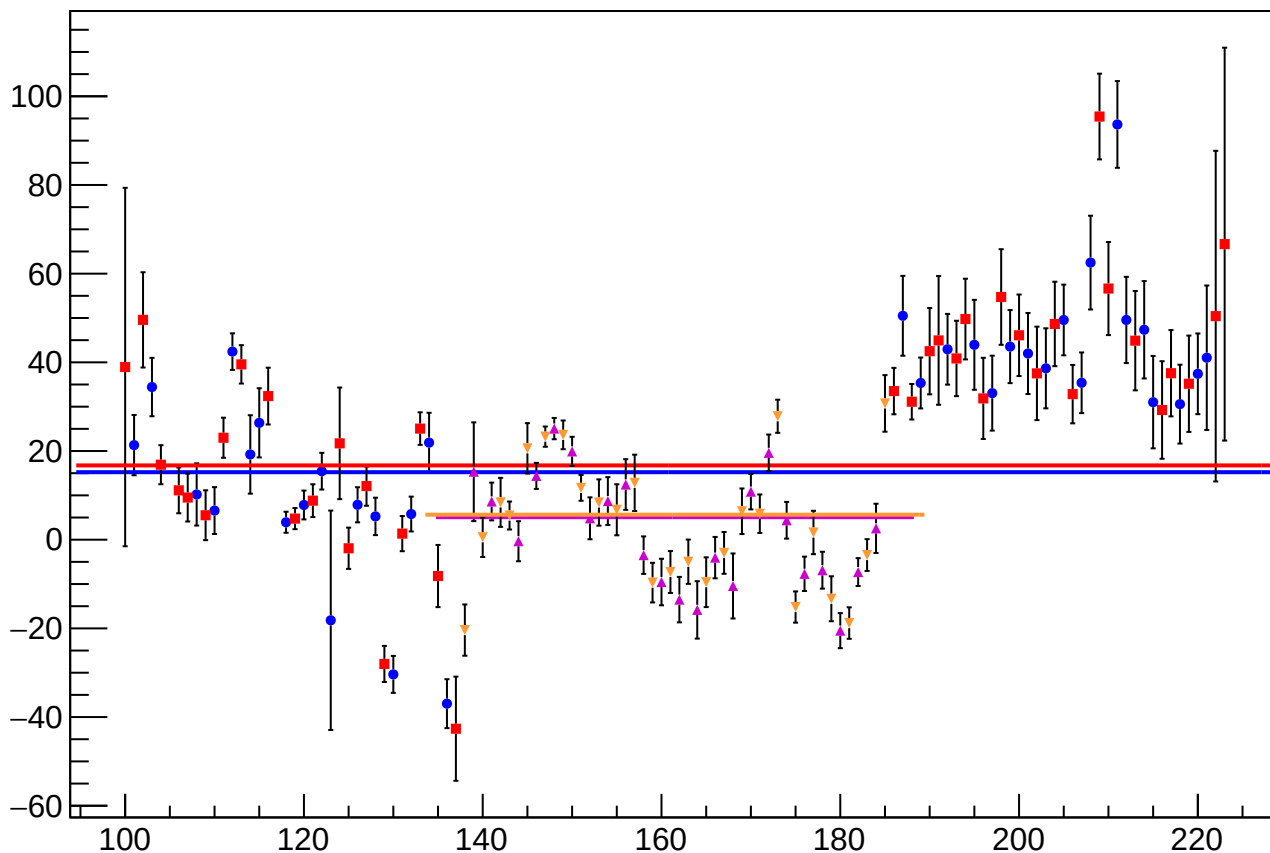
Right: -277.245 ± 0.971 $\chi^2/\text{NDF}: 4571.0/37$

In: -248.420 ± 0.868 $\chi^2/\text{NDF}: 5451.5/40$

Out: -247.181 ± 0.844 $\chi^2/\text{NDF}: 9067.6/44$

All: -247.783 ± 0.605 $\chi^2/\text{NDF}: 14520.2/85$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.224 $\pm$ 0.975 χ^2 /NDF: 538.7/34

Left Out: 5.638 $\pm$ 0.828 χ^2 /NDF:313.6/24

Right Out: 16.754 $\pm$ 0.936 χ^2 /NDF: 478.3/38

Left In: 5.077 $\pm$ 0.869 χ^2 /NDF:239.7/22

Left: 5.371 $\pm$ 0.599 χ^2 /NDF: 553.6/47

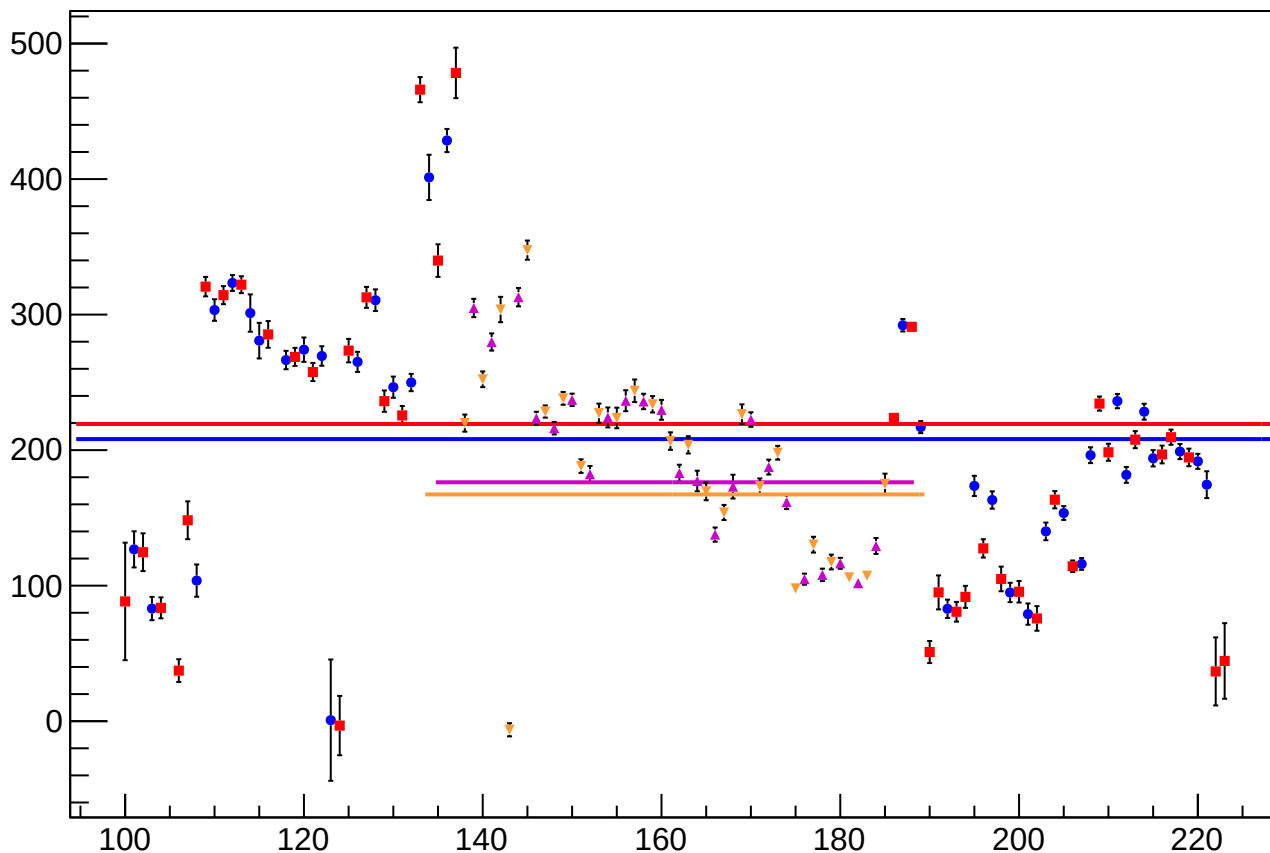
Right: 16.019 $\pm$ 0.675 χ^2 /NDF: 1018.3/73

In: 9.571 $\pm$ 0.649 χ^2 /NDF:838.8/57

Out: 10.516 $\pm$ 0.620 χ^2 /NDF:871.0/63

All: 10.065 $\pm$ 0.448 χ^2 /NDF: 1710.9/121

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 208.139+/-1.141 χ^2/NDF : 4285.7/34

Left Out: 167.327+/-1.082 χ^2/NDF : 4454.5/24

Right Out: 219.314+/-1.056 χ^2/NDF : 6721.9/38

Left In: 176.272+/-1.106 χ^2/NDF : 3169.5/22

Left: 171.704+/-0.774 χ^2/NDF : 7657.4/47

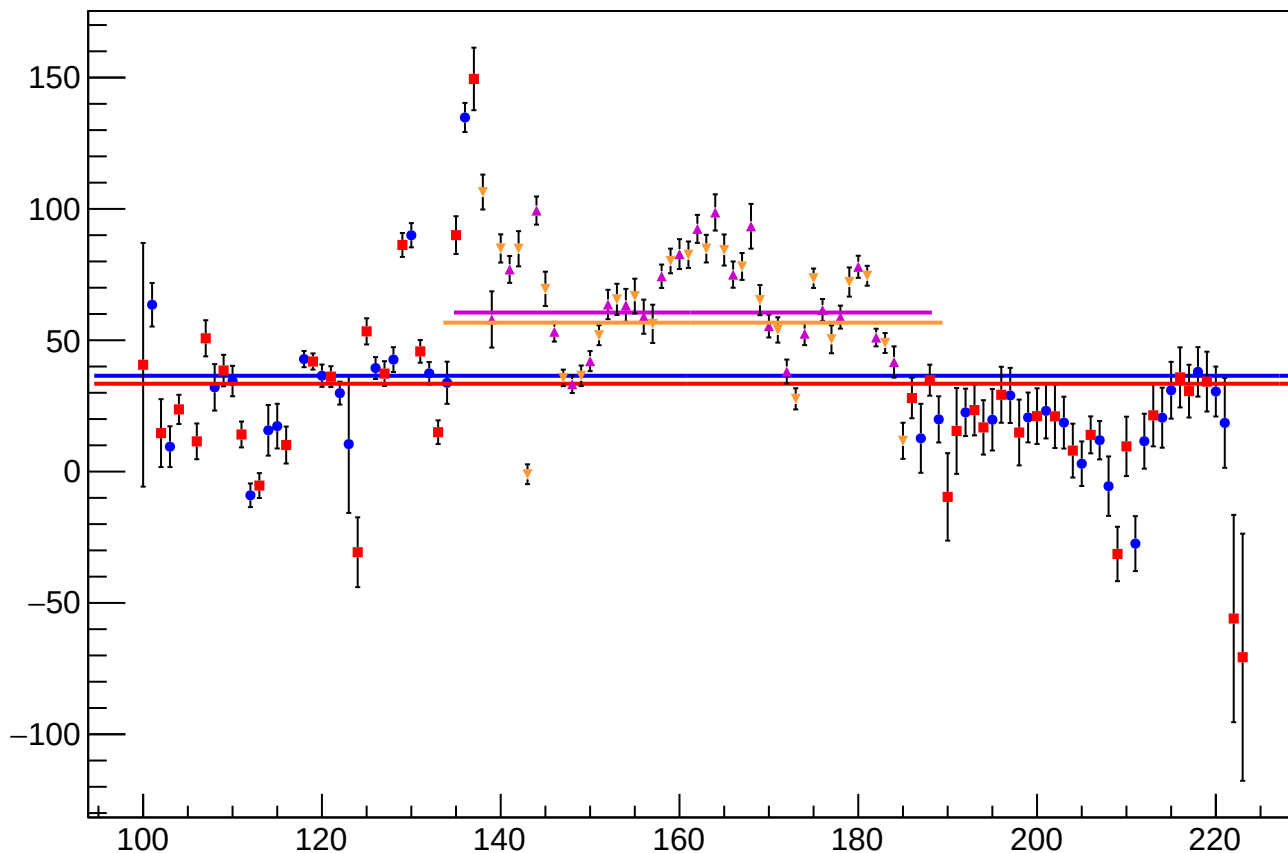
Right: 214.163+/-0.775 χ^2/NDF : 11059.2/73

In: 191.698+/-0.794 χ^2/NDF : 7857.3/57

Out: 193.976+/-0.756 χ^2/NDF : 12358.6/63

All: 192.894+/-0.547 χ^2/NDF : 20220.2/121

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.484 ± 1.124 $\chi^2/\text{NDF}: 700.4/34$

Left Out: 56.695 ± 0.952 $\chi^2/\text{NDF}: 690.4/24$

Right Out: 33.447 ± 1.092 $\chi^2/\text{NDF}: 565.7/38$

Left In: 60.555 ± 0.990 $\chi^2/\text{NDF}: 335.6/22$

Left: 58.548 ± 0.686 $\chi^2/\text{NDF}: 1034.0/47$

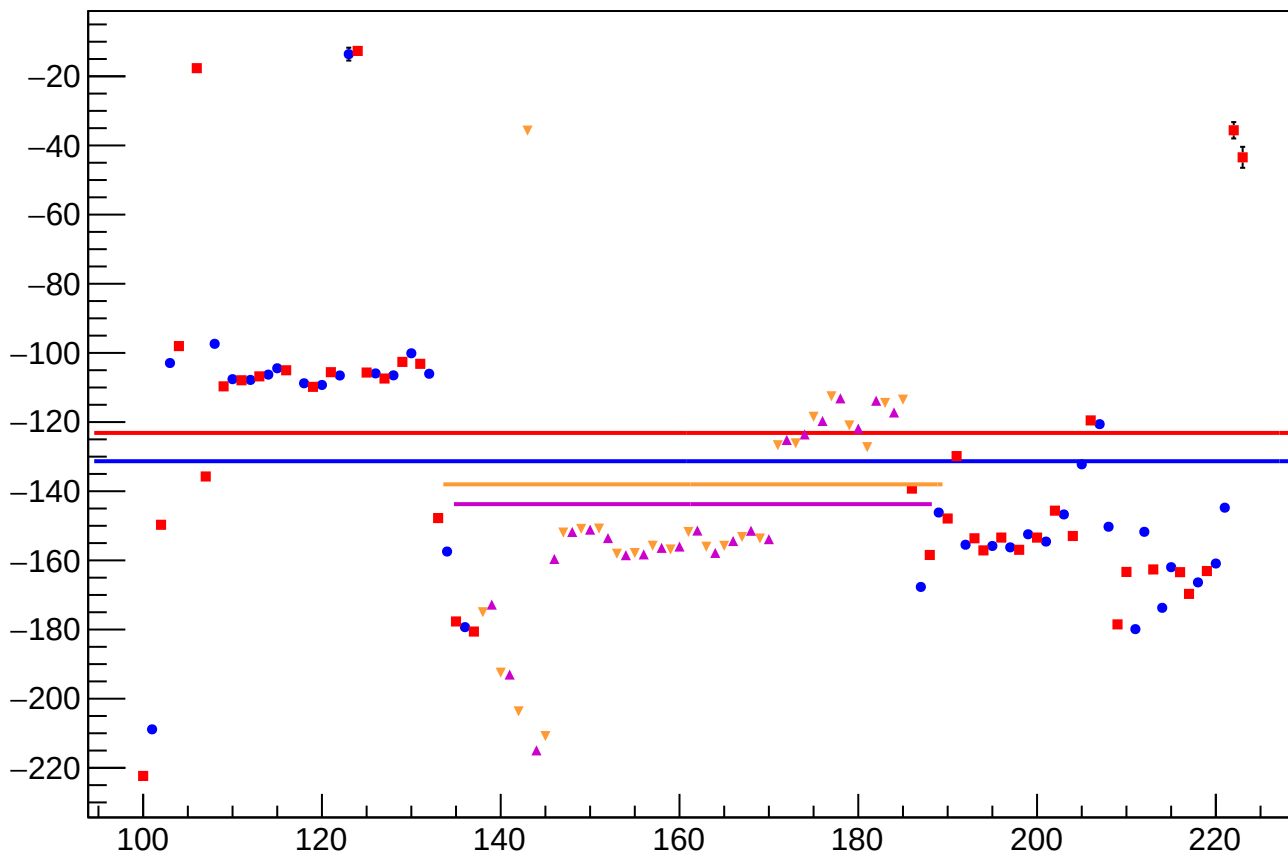
Right: 34.923 ± 0.783 $\chi^2/\text{NDF}: 1269.9/73$

In: 50.033 ± 0.743 $\chi^2/\text{NDF}: 1294.4/57$

Out: 46.663 ± 0.718 $\chi^2/\text{NDF}: 1513.6/63$

All: 48.290 ± 0.516 $\chi^2/\text{NDF}: 2818.6/121$

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -131.317+/-0.060 χ^2/NDF : 236616.6/34

Left Out: -138.008+/-0.045 χ^2/NDF : 565767.2/24

Right Out: -123.138+/-0.057 χ^2/NDF : 496221.4/38

Left In: -143.735+/-0.046 χ^2/NDF : 258408.3/22

Left: -140.811+/-0.032 χ^2/NDF : 832055.2/47

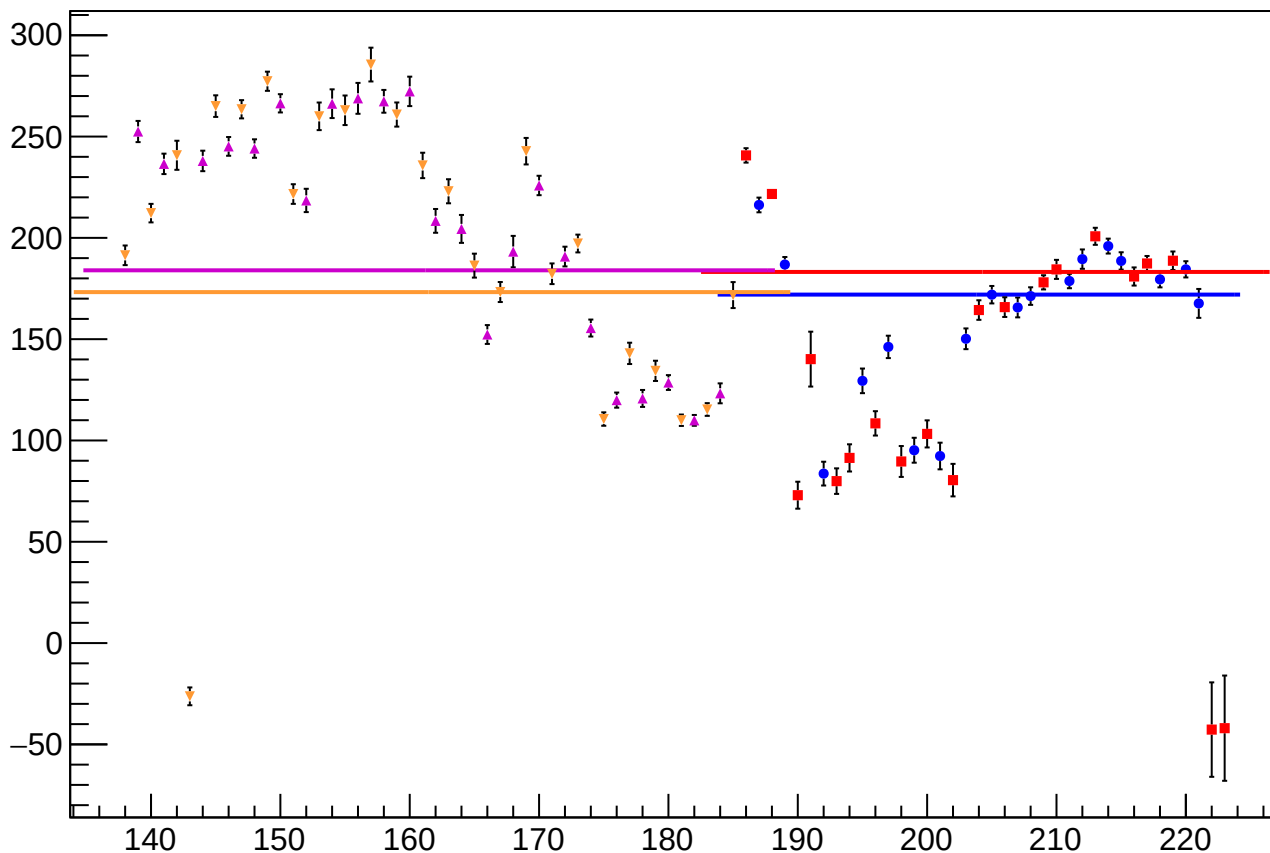
Right: -127.016+/-0.041 χ^2/NDF : 742608.7/73

In: -139.126+/-0.037 χ^2/NDF : 521955.6/57

Out: -132.276+/-0.035 χ^2/NDF : 1103842.0/63

All: -135.589+/-0.025 χ^2/NDF : 1643928.6/12

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 172.002 $\pm$ 1.072 χ^2 /NDF: 872.7/17

Left Out: 173.229 $\pm$ 0.966 χ^2 /NDF:5846.0/24

Right Out: 183.185 $\pm$ 1.016 χ^2 /NDF: 2258.6/19

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

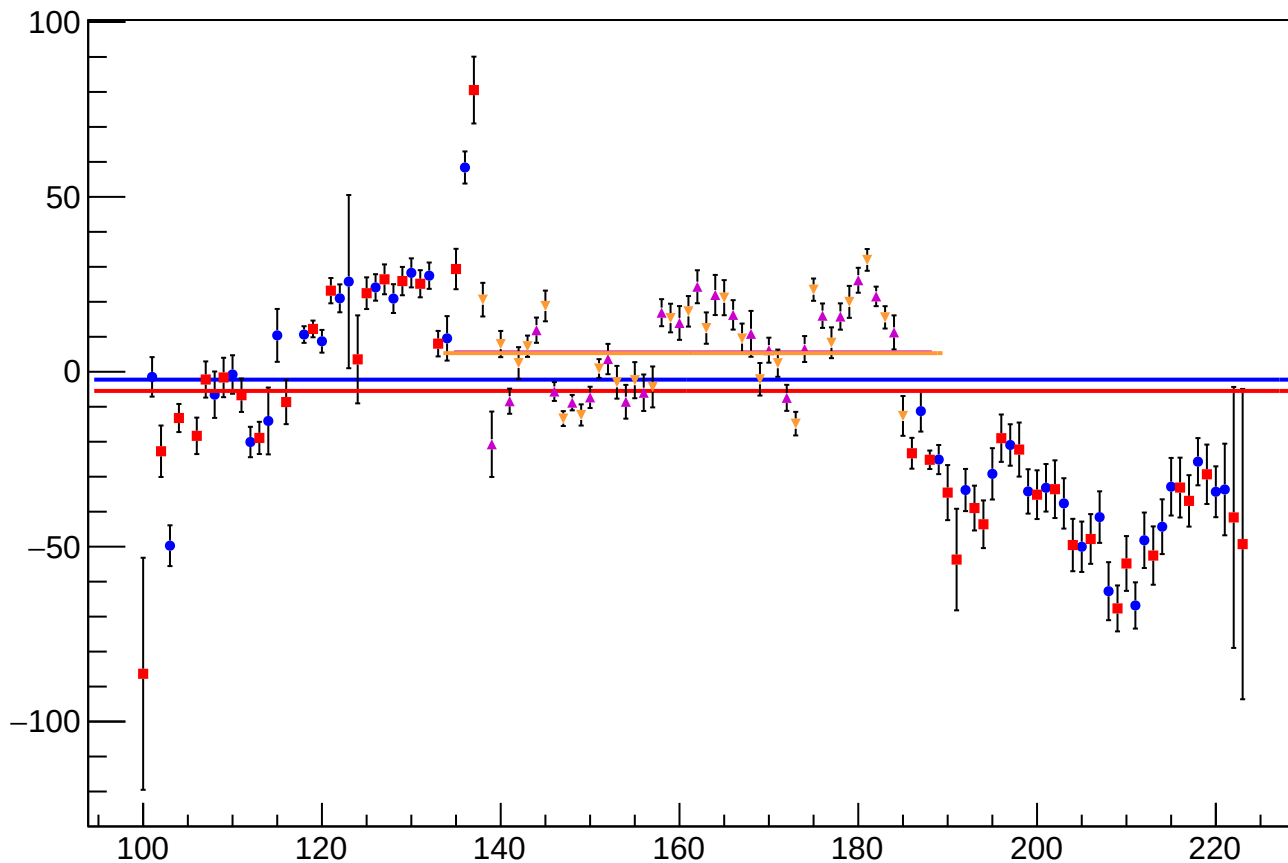
Right: 177.889 $\pm$ 0.737 χ^2 /NDF: 3188.7/37

In: 178.461 $\pm$ 0.728 χ^2 /NDF:4553.8/40

Out: 177.952 $\pm$ 0.700 χ^2 /NDF:8155.0/44

All: 178.197 $\pm$ 0.504 χ^2 /NDF: 12709.0/85

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.248 ± 0.891 χ^2/NDF : 1026.4/34

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -5.478 ± 0.850 χ^2/NDF : 960.4/38

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

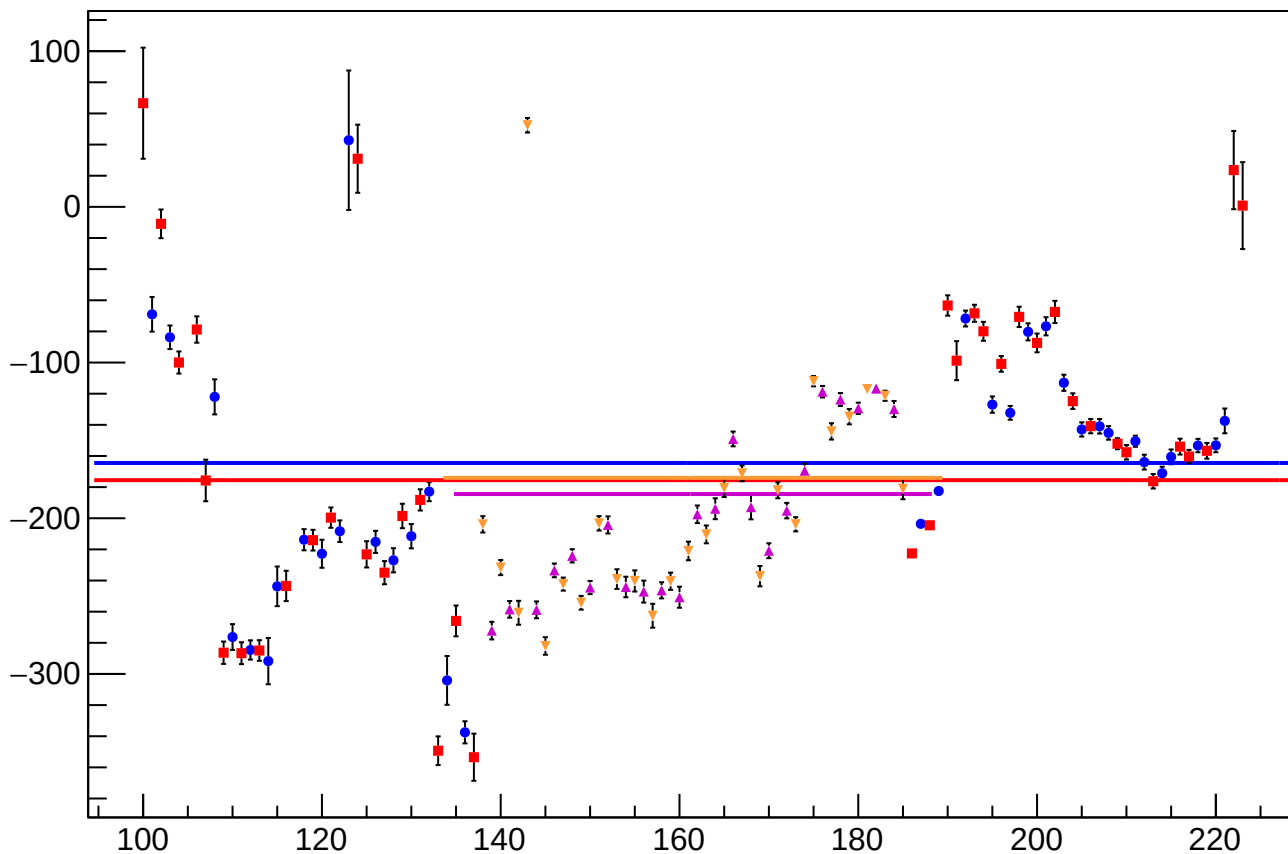
Right: -3.938 ± 0.615 χ^2/NDF : 1993.7/73

In: 2.149 ± 0.587 χ^2/NDF : 1325.8/57

Out: 0.616 ± 0.561 χ^2/NDF : 1396.9/63

All: 1.348 ± 0.406 χ^2/NDF : 2726.3/121

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -164.484 ± 0.923 χ^2/NDF : 3170.3/34

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -175.539 ± 0.835 χ^2/NDF : 5137.6/38

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

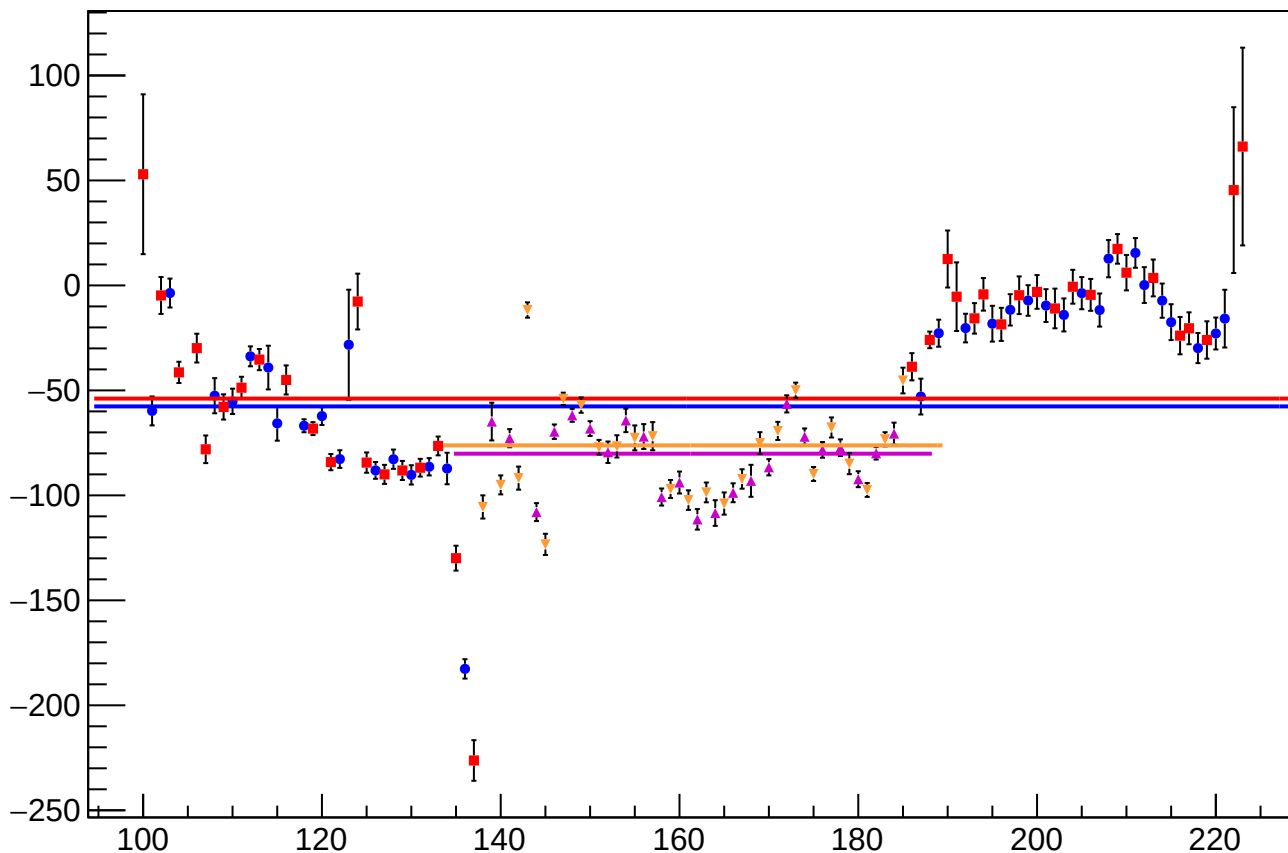
Right: -170.558 ± 0.619 χ^2/NDF : 8386.7/73

In: -173.762 ± 0.675 χ^2/NDF : 6439.5/57

Out: -174.910 ± 0.633 χ^2/NDF : 10582.2/63

All: -174.373 ± 0.462 χ^2/NDF : 17023.2/121

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -57.630 ± 1.029 $\chi^2/\text{NDF}: 1716.0/34$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -53.902 ± 1.002 $\chi^2/\text{NDF}: 1513.5/38$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

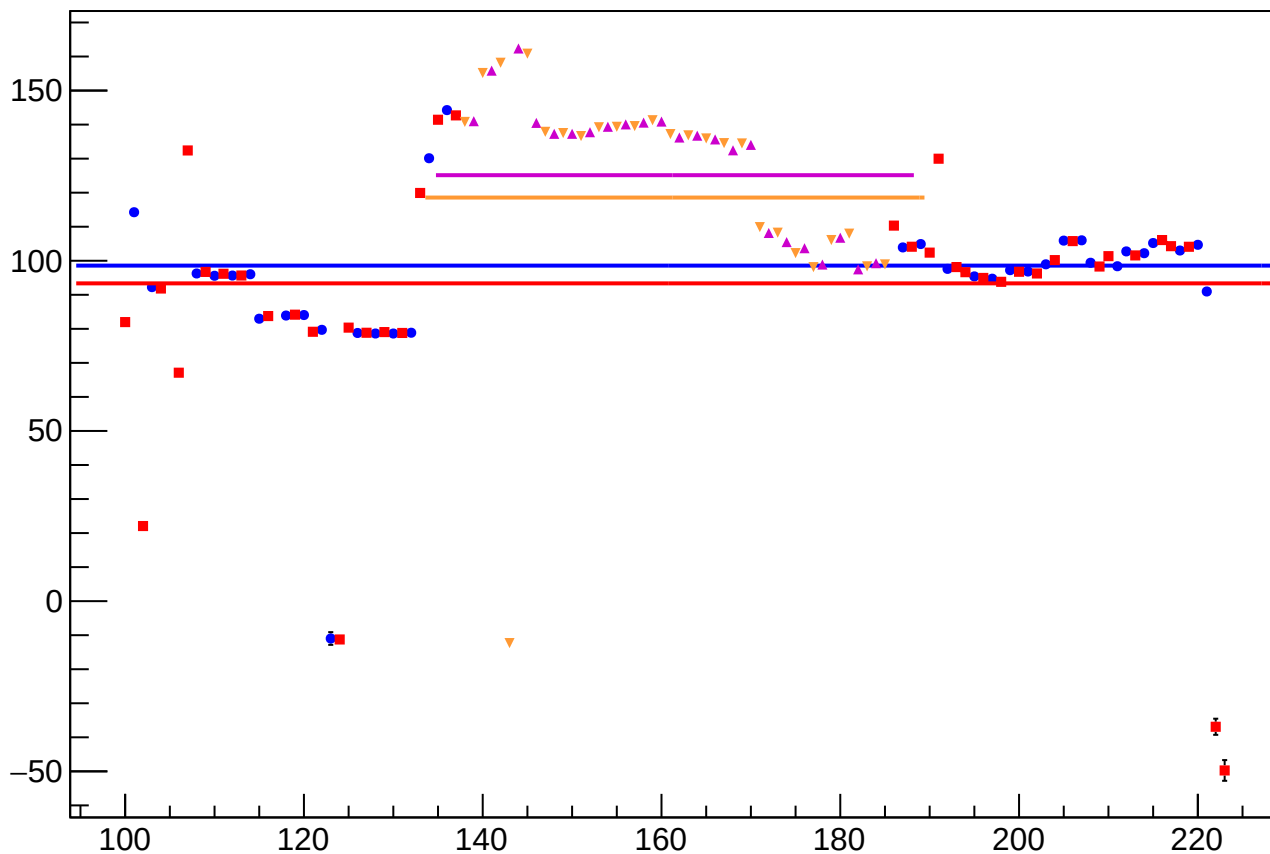
Right: -55.716 ± 0.718 $\chi^2/\text{NDF}: 3236.2/73$

In: -70.526 ± 0.673 $\chi^2/\text{NDF}: 2273.4/57$

Out: -66.766 ± 0.651 $\chi^2/\text{NDF}: 2599.9/63$

All: -68.585 ± 0.468 $\chi^2/\text{NDF}: 4889.4/121$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.573+/-0.052 χ^2/NDF : 96907.0/34

Left Out: 118.569+/-0.040 χ^2/NDF : 728689.7/24

Right Out: 93.357+/-0.049 χ^2/NDF : 251196.6/38

Left In: 125.139+/-0.041 χ^2/NDF : 220927.1/22

Left: 121.790+/-0.029 χ^2/NDF : 962526.8/47

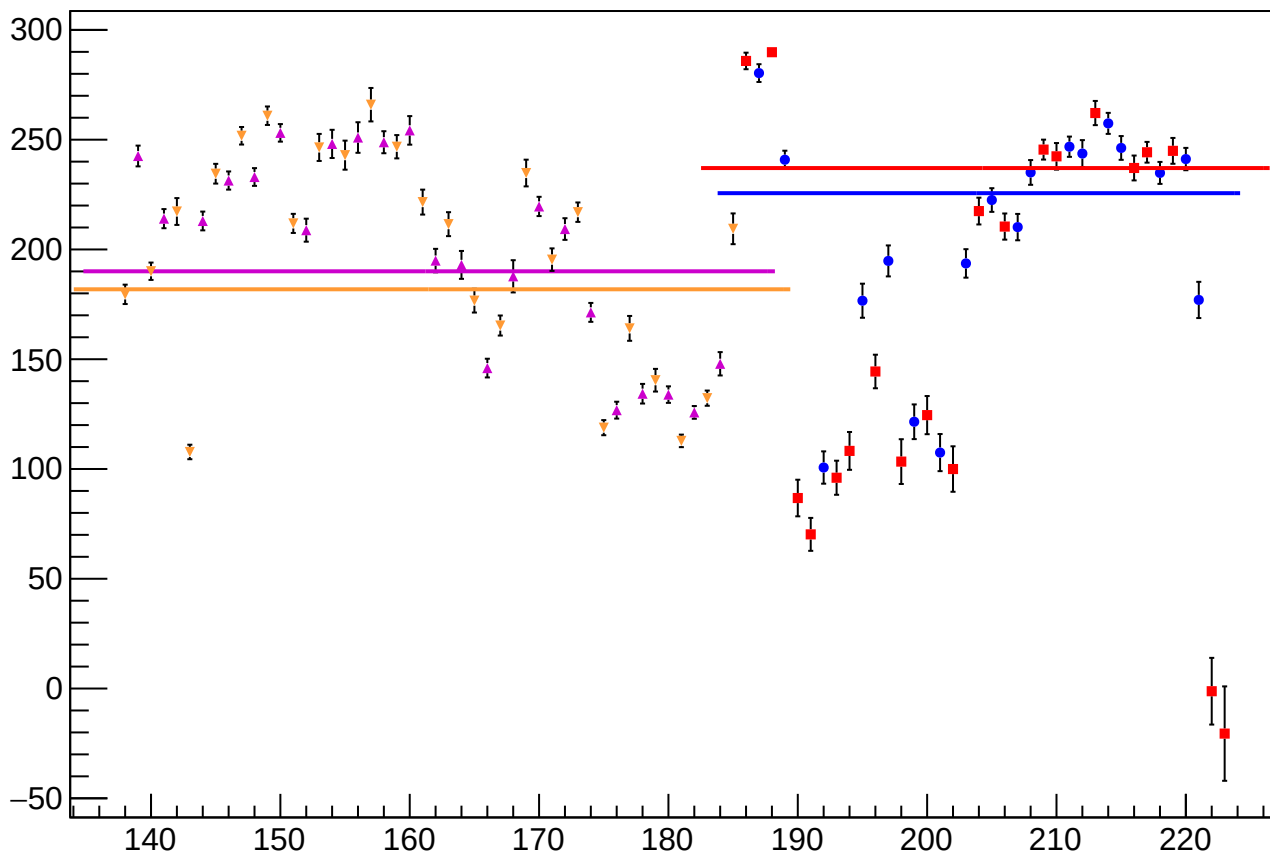
Right: 95.832+/-0.036 χ^2/NDF : 353382.8/73

In: 114.877+/-0.032 χ^2/NDF : 477801.2/57

Out: 108.448+/-0.031 χ^2/NDF : 1135496.6/63

All: 111.560+/-0.023 χ^2/NDF : 1633680.5/123

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 225.636 ± 1.328 $\chi^2/\text{NDF}: 1082.7/17$

Left Out: 181.850 ± 0.913 $\chi^2/\text{NDF}: 3303.4/24$

Right Out: 237.074 ± 1.203 $\chi^2/\text{NDF}: 3302.7/19$

Left In: 190.048 ± 0.953 $\chi^2/\text{NDF}: 2438.4/22$

Left: 185.775 ± 0.659 $\chi^2/\text{NDF}: 5780.3/47$

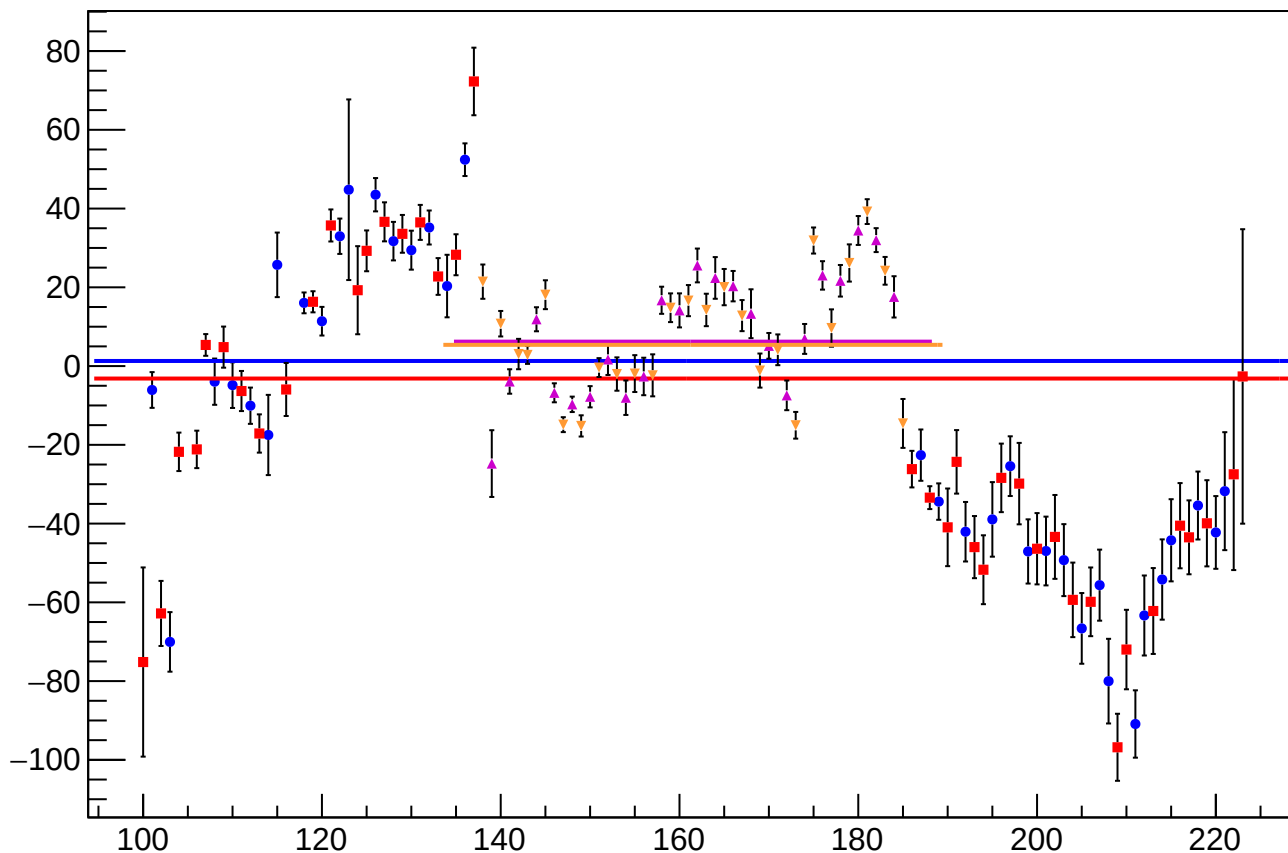
Right: 231.917 ± 0.891 $\chi^2/\text{NDF}: 4426.2/37$

In: 202.148 ± 0.774 $\chi^2/\text{NDF}: 3995.4/40$

Out: 202.046 ± 0.727 $\chi^2/\text{NDF}: 7943.0/44$

All: 202.094 ± 0.530 $\chi^2/\text{NDF}: 11938.3/85$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.296 ± 1.003 $\chi^2/\text{NDF}: 1231.8/34$

Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$

Right Out: -3.165 ± 0.913 $\chi^2/\text{NDF}: 1229.4/38$

Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$

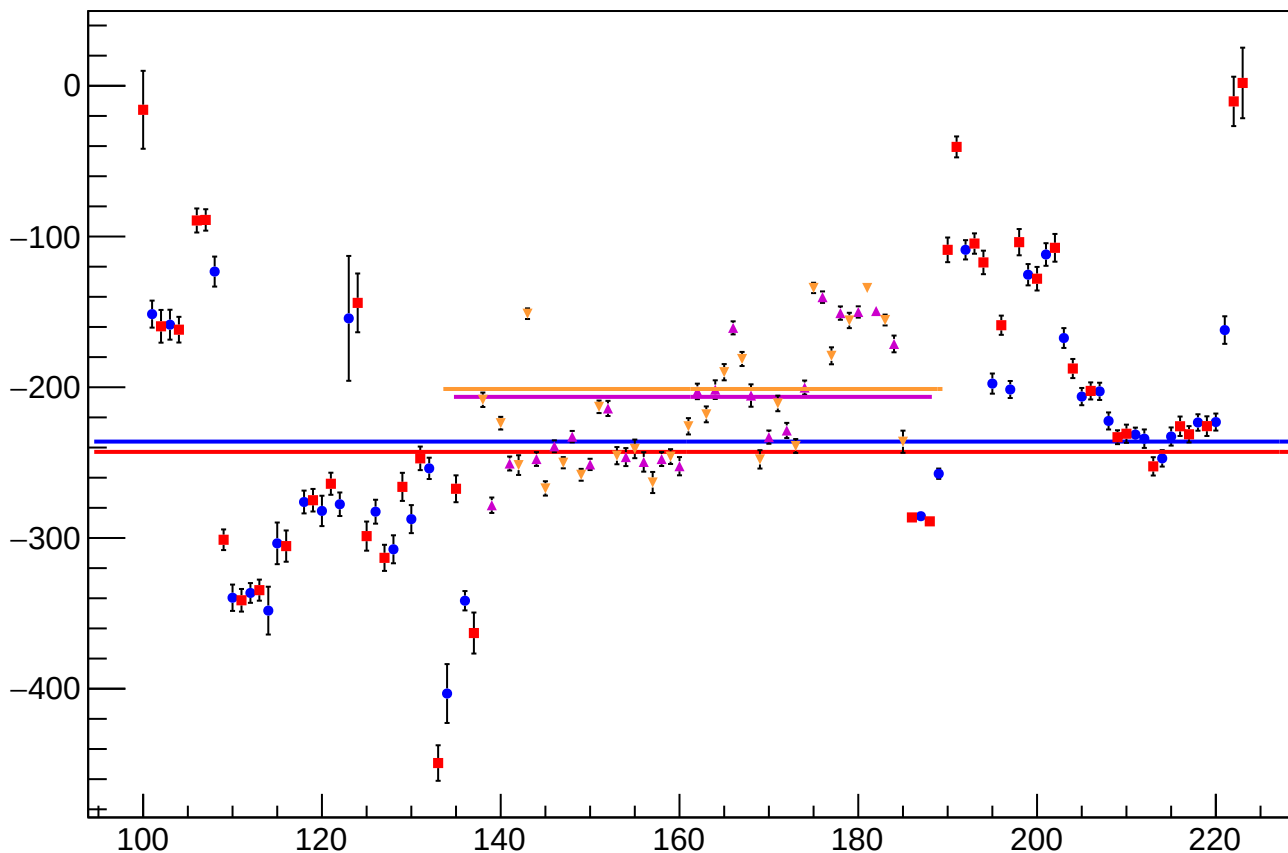
Right: -1.143 ± 0.675 $\chi^2/\text{NDF}: 2472.0/73$

In: 4.501 ± 0.591 $\chi^2/\text{NDF}: 1655.0/57$

Out: 2.293 ± 0.549 $\chi^2/\text{NDF}: 1812.0/63$

All: 3.316 ± 0.402 $\chi^2/\text{NDF}: 3474.4/121$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -236.042 ± 1.099 $\chi^2/\text{NDF}: 2787.1/34$

Left Out: -201.144 ± 0.918 $\chi^2/\text{NDF}: 2488.8/24$

Right Out: -242.883 ± 0.952 $\chi^2/\text{NDF}: 6172.3/38$

Left In: -206.379 ± 0.950 $\chi^2/\text{NDF}: 2111.6/22$

Left: -203.672 ± 0.660 $\chi^2/\text{NDF}: 4616.1/47$

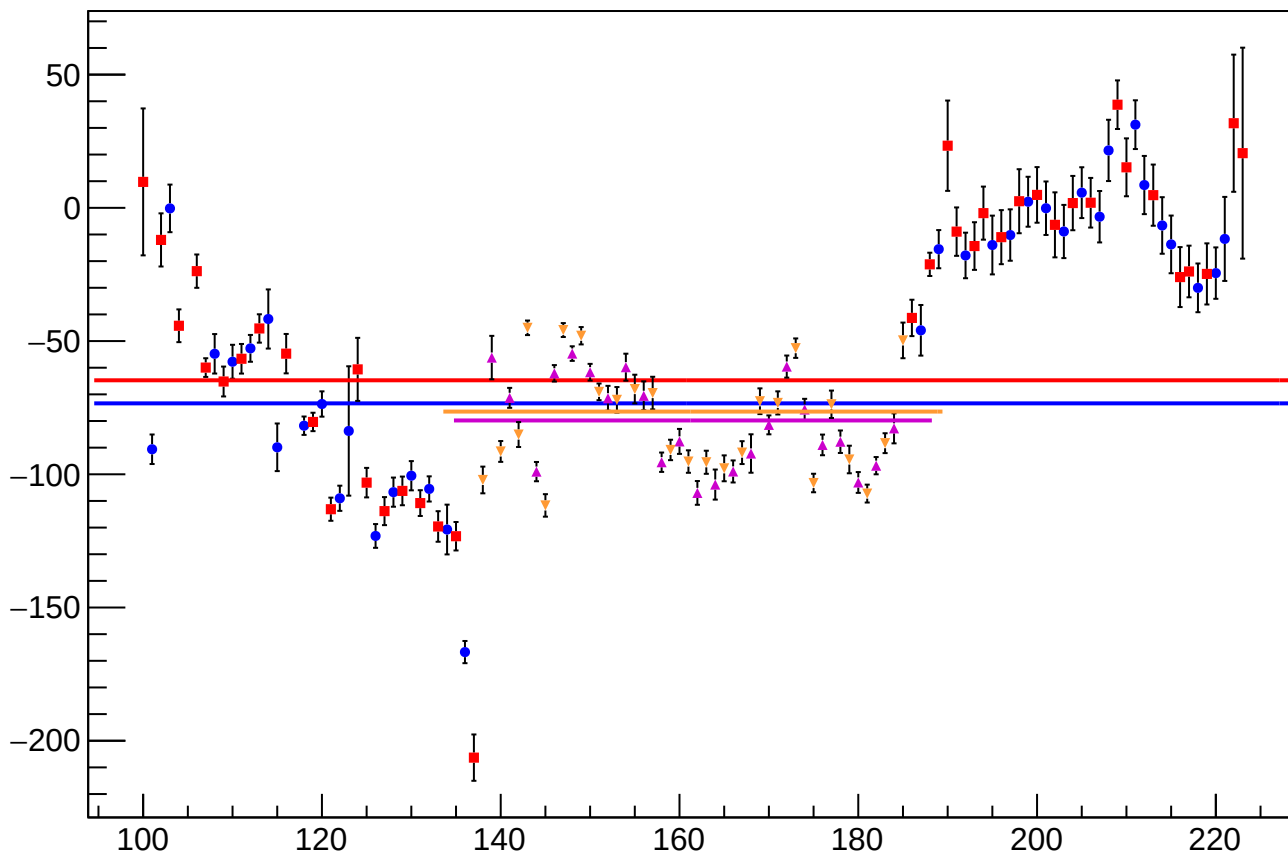
Right: -239.949 ± 0.720 $\chi^2/\text{NDF}: 8981.6/73$

In: -219.059 ± 0.718 $\chi^2/\text{NDF}: 5315.8/57$

Out: -221.243 ± 0.661 $\chi^2/\text{NDF}: 9657.0/63$

All: -220.242 ± 0.486 $\chi^2/\text{NDF}: 14977.8/121$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -73.378 ± 1.161 χ^2/NDF : 1798.5/34

Left Out: -76.460 ± 0.797 χ^2/NDF : 781.3/24

Right Out: -64.722 ± 1.083 χ^2/NDF : 1762.7/38

Left In: -79.792 ± 0.840 χ^2/NDF : 412.3/22

Left: -78.038 ± 0.578 χ^2/NDF : 1201.9/47

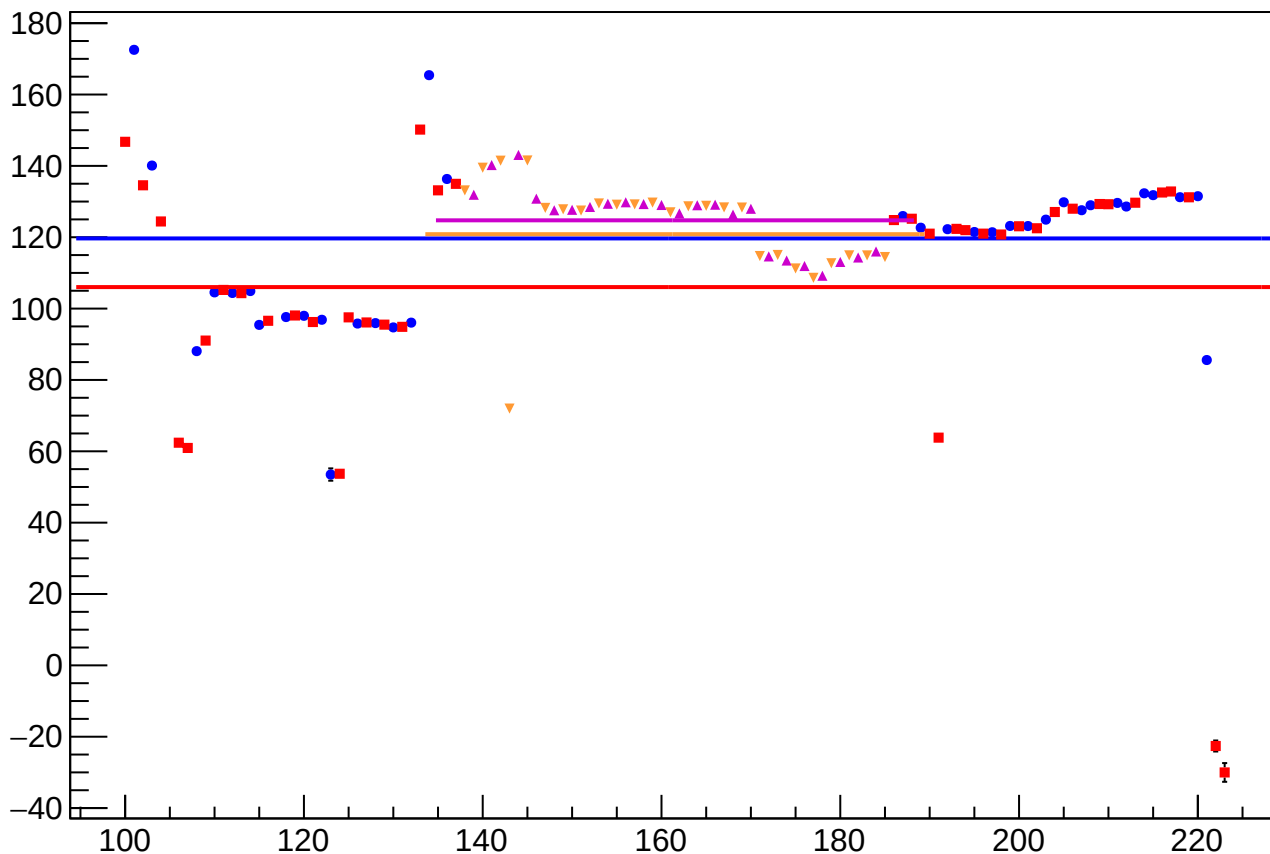
Right: -68.749 ± 0.792 χ^2/NDF : 3591.0/73

In: -77.588 ± 0.680 χ^2/NDF : 2230.8/57

Out: -72.336 ± 0.642 χ^2/NDF : 2620.3/63

All: -74.809 ± 0.467 χ^2/NDF : 4882.7/121

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.665 $\pm$ 0.060 χ^2 /NDF: 114037.5/34

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 106.027 $\pm$ 0.053 χ^2 /NDF: 264977.0/38

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

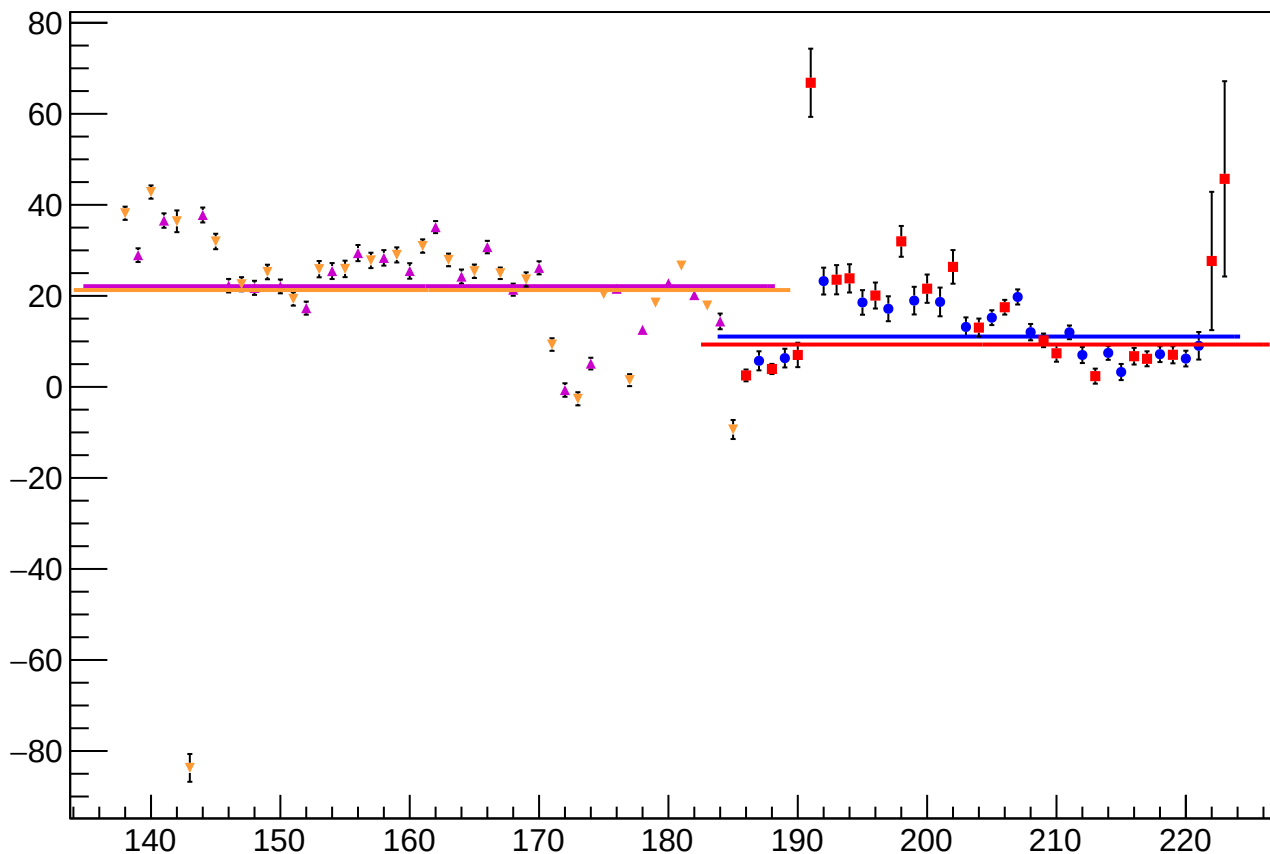
Right: 112.067 $\pm$ 0.040 χ^2 /NDF: 407879.0/73

In: 123.214 $\pm$ 0.033 χ^2 /NDF:170352.6/57

Out: 115.863 $\pm$ 0.031 χ^2 /NDF:498846.0/63

All: 119.328 $\pm$ 0.023 χ^2 /NDF: 695707.0/121

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.060 $\pm$ 0.466 χ^2 /NDF: 132.9/17

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 9.309 $\pm$ 0.454 χ^2 /NDF: 307.6/19

Left In: 22.127 $\pm$ 0.285 χ^2 /NDF:900.2/22

Left: 21.700 $\pm$ 0.201 χ^2 /NDF: 3505.2/47

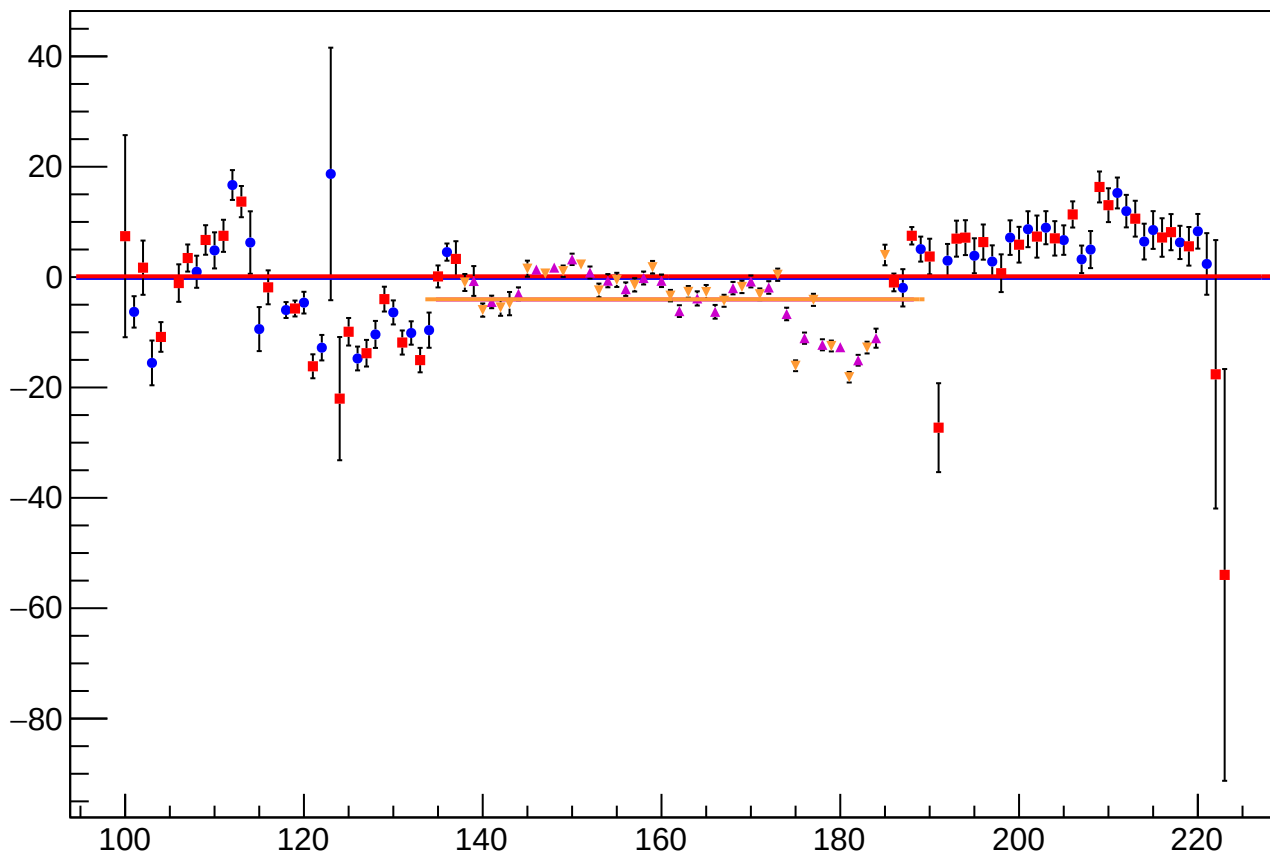
Right: 10.163 $\pm$ 0.325 χ^2 /NDF: 447.7/37

In: 19.103 $\pm$ 0.243 χ^2 /NDF:1443.7/40

Out: 17.942 $\pm$ 0.240 χ^2 /NDF:3409.4/44

All: 18.514 $\pm$ 0.171 χ^2 /NDF: 4864.6/85

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.145 ± 0.454 χ^2/NDF : 342.5/34

Left Out: -4.022 ± 0.223 χ^2/NDF : 734.1/24

Right Out: 0.143 ± 0.437 χ^2/NDF : 420.8/38

Left In: -4.059 ± 0.228 χ^2/NDF : 577.2/22

Left: -4.040 ± 0.159 χ^2/NDF : 1311.4/47

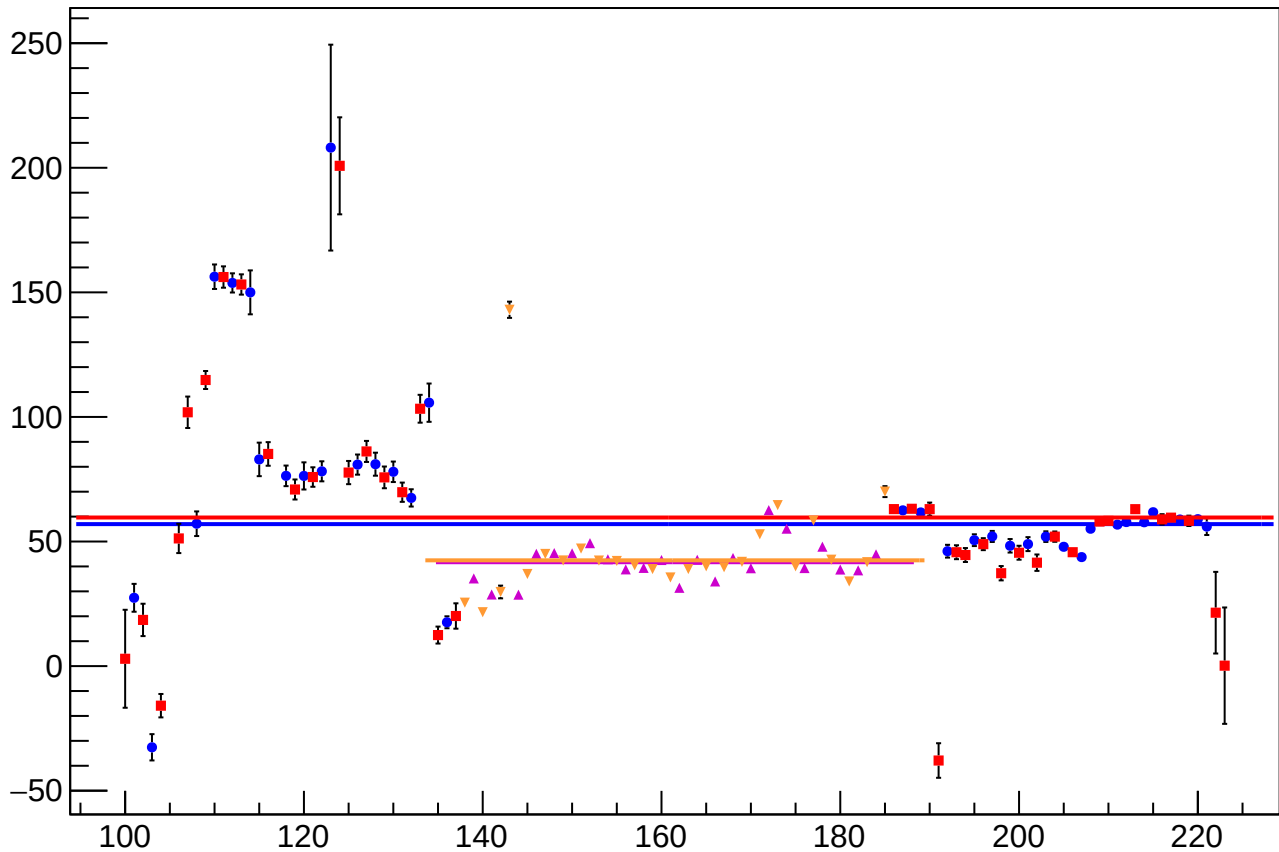
Right: 0.005 ± 0.315 χ^2/NDF : 763.5/73

In: -3.270 ± 0.204 χ^2/NDF : 979.1/57

Out: -3.161 ± 0.199 χ^2/NDF : 1226.9/63

All: -3.214 ± 0.142 χ^2/NDF : 2206.1/121

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.985 $\pm$ 0.424 χ^2 /NDF: 2144.6/34

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF: 2016.0/24

Right Out: 59.635 $\pm$ 0.395 χ^2 /NDF: 2645.3/38

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

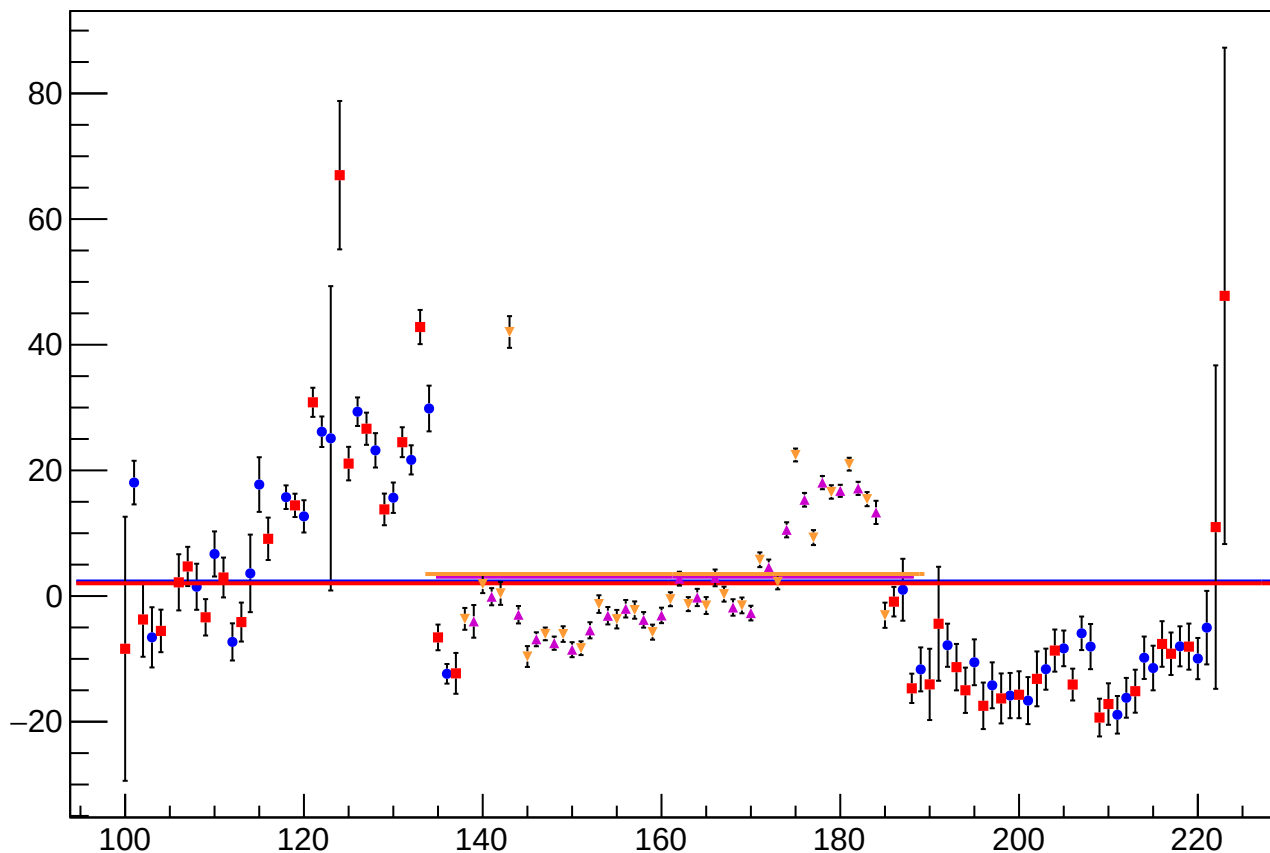
Right: 58.404 $\pm$ 0.289 χ^2 /NDF: 4810.9/73

In: 46.431 $\pm$ 0.236 χ^2 /NDF: 3671.9/57

Out: 48.251 $\pm$ 0.229 χ^2 /NDF: 5915.0/63

All: 47.367 $\pm$ 0.165 χ^2 /NDF: 9617.4/121

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.317 ± 0.514 $\chi^2/\text{NDF}: 955.9/34$

Left Out: 3.505 ± 0.252 $\chi^2/\text{NDF}: 1691.3/24$

Right Out: 2.031 ± 0.510 $\chi^2/\text{NDF}: 1131.9/38$

Left In: 3.081 ± 0.257 $\chi^2/\text{NDF}: 1265.7/22$

Left: 3.297 ± 0.180 $\chi^2/\text{NDF}: 2958.4/47$

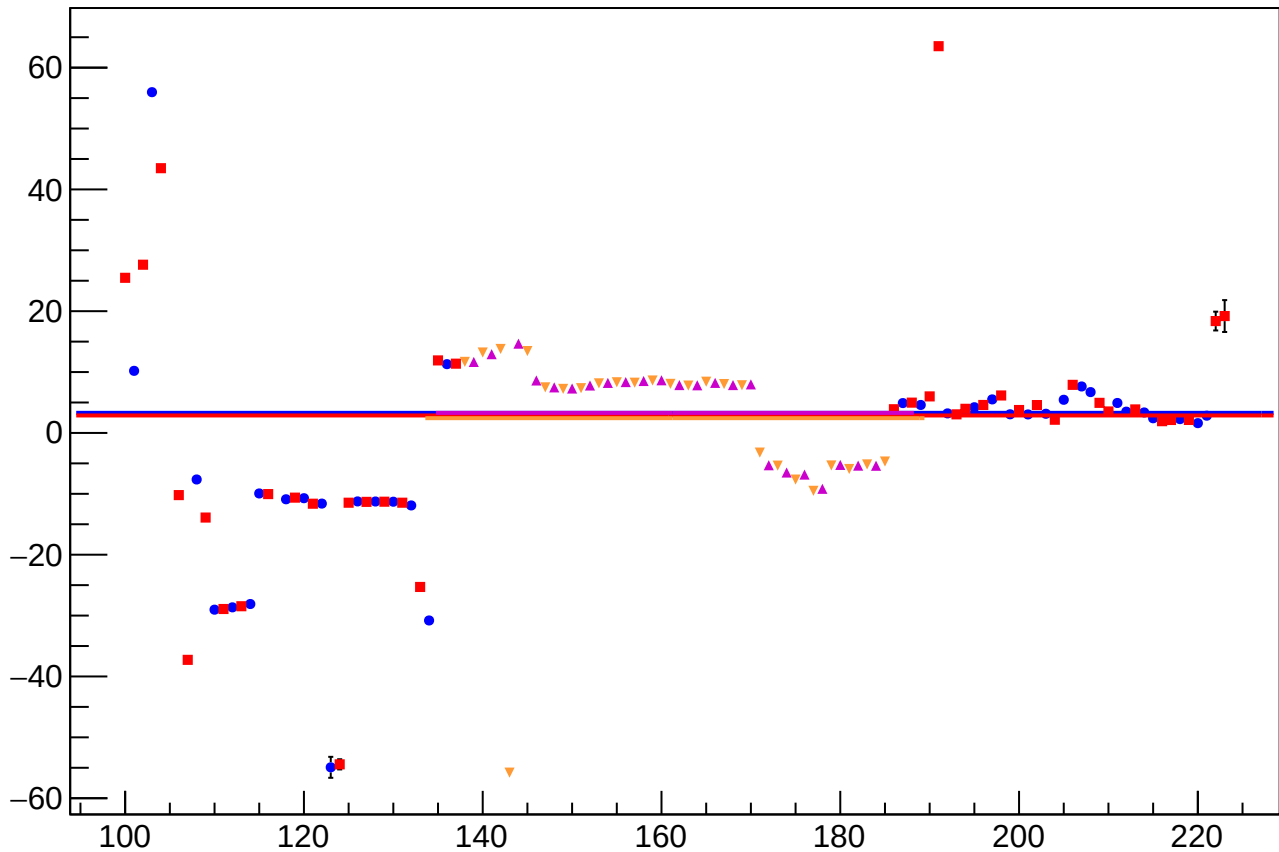
Right: 2.173 ± 0.362 $\chi^2/\text{NDF}: 2088.0/73$

In: 2.929 ± 0.230 $\chi^2/\text{NDF}: 2223.4/57$

Out: 3.215 ± 0.226 $\chi^2/\text{NDF}: 2829.9/63$

All: 3.074 ± 0.161 $\chi^2/\text{NDF}: 5054.1/121$

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.303 $\pm$ 0.024 χ^2 /NDF: 362531.7/34

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.870 $\pm$ 0.024 χ^2 /NDF: 434718.5/38

Left In: 3.293 $\pm$ 0.012 χ^2 /NDF: 404323.8/22

Left: 2.855 $\pm$ 0.008 χ^2 /NDF: 1023497.1/47

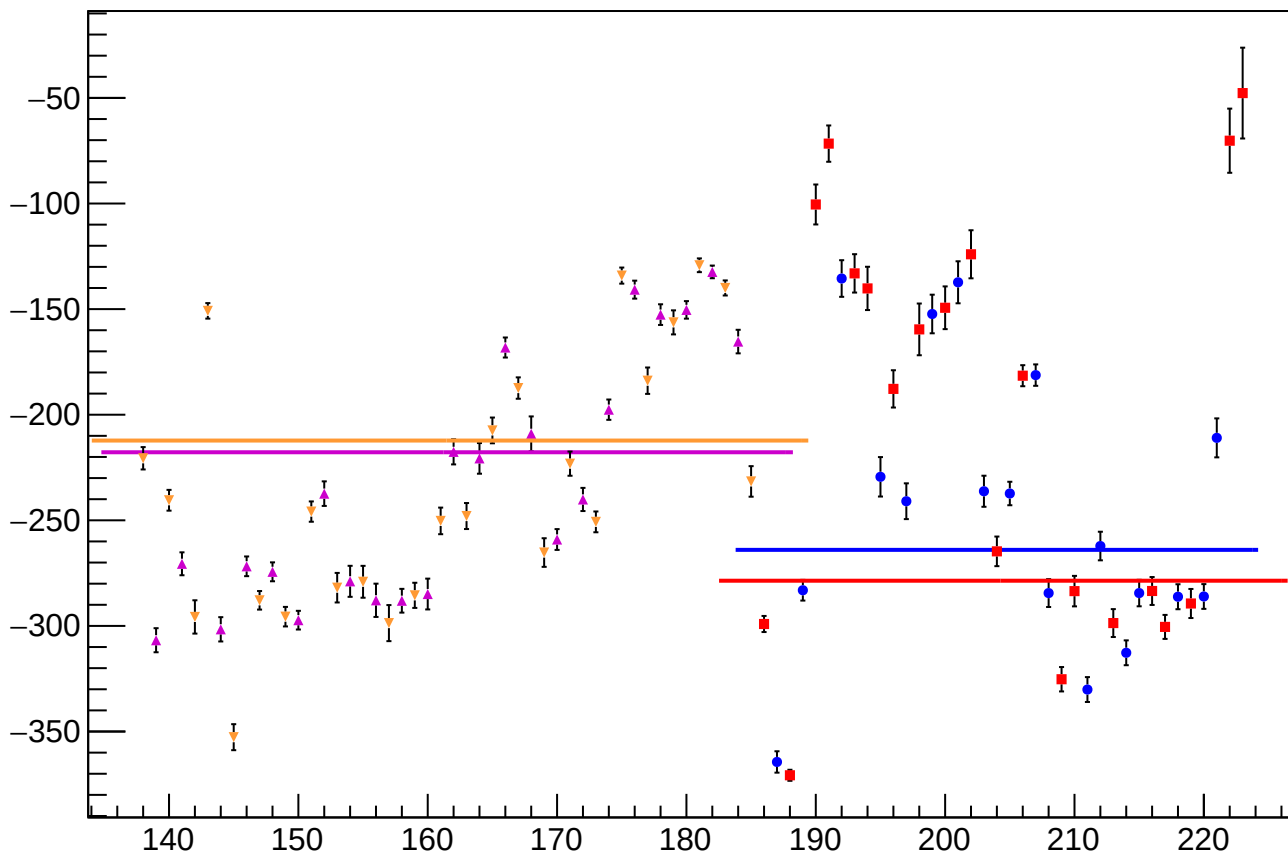
Right: 3.085 $\pm$ 0.017 χ^2 /NDF: 797408.9/73

In: 3.294 $\pm$ 0.011 χ^2 /NDF: 766855.7/57

Out: 2.508 $\pm$ 0.010 χ^2 /NDF: 1051375.0/63

All: 2.898 $\pm$ 0.007 χ^2 /NDF: 1821051.8/121

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -263.991 ± 1.527 χ^2/NDF : 1541.0/17

Left Out: -212.231 ± 1.029 χ^2/NDF : 3875.4/24

Right Out: -278.598 ± 1.396 χ^2/NDF : 3973.7/19

Left In: -217.779 ± 1.067 χ^2/NDF : 3448.9/22

Left: -214.906 ± 0.741 χ^2/NDF : 7338.3/47

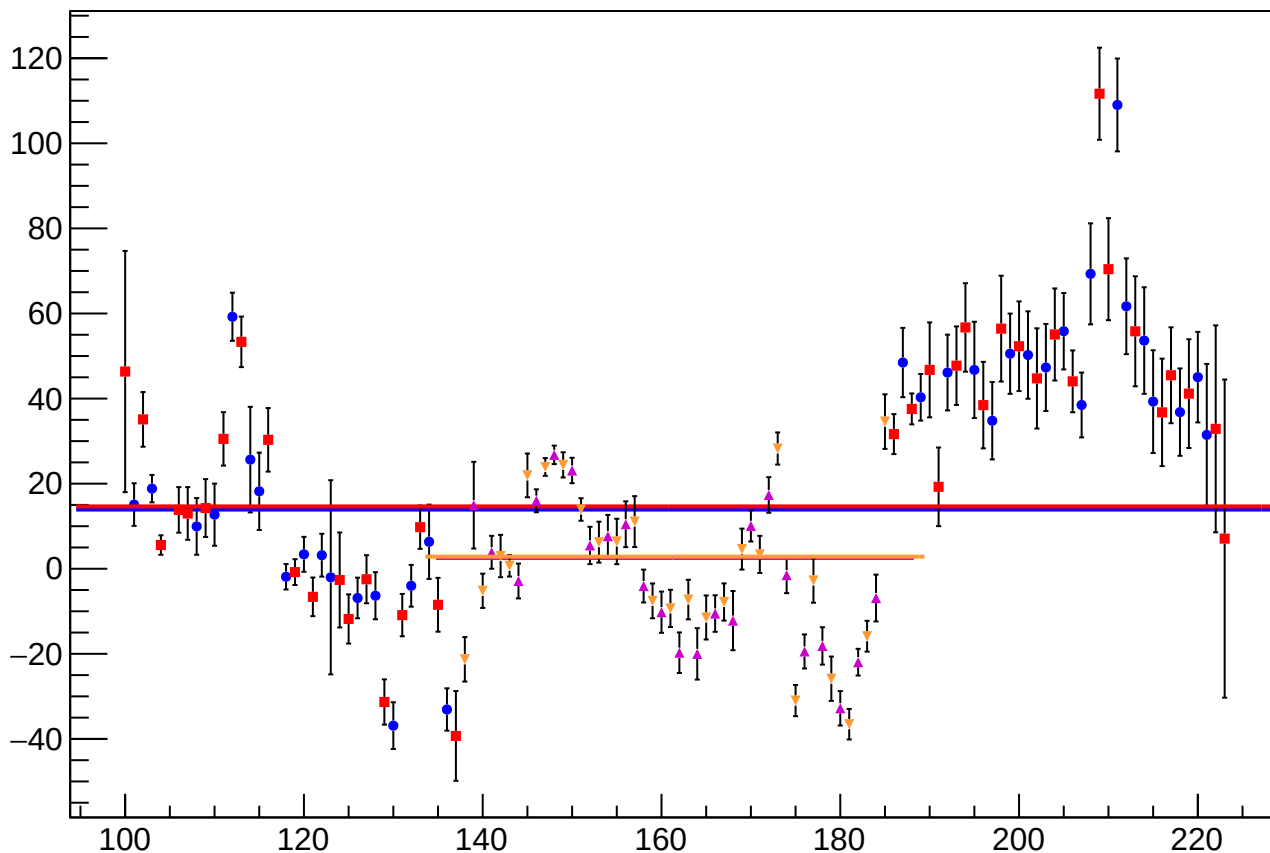
Right: -271.948 ± 1.030 χ^2/NDF : 5564.5/37

In: -232.932 ± 0.875 χ^2/NDF : 5605.2/40

Out: -235.604 ± 0.829 χ^2/NDF : 9312.9/44

All: -234.340 ± 0.601 χ^2/NDF : 14923.0/85

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.914 ± 1.089 $\chi^2/\text{NDF}: 612.0/34$

Left Out: 2.848 ± 0.775 $\chi^2/\text{NDF}: 582.1/24$

Right Out: 14.656 ± 0.995 $\chi^2/\text{NDF}: 586.5/38$

Left In: 2.540 ± 0.822 $\chi^2/\text{NDF}: 473.6/22$

Left: 2.703 ± 0.564 $\chi^2/\text{NDF}: 1055.8/47$

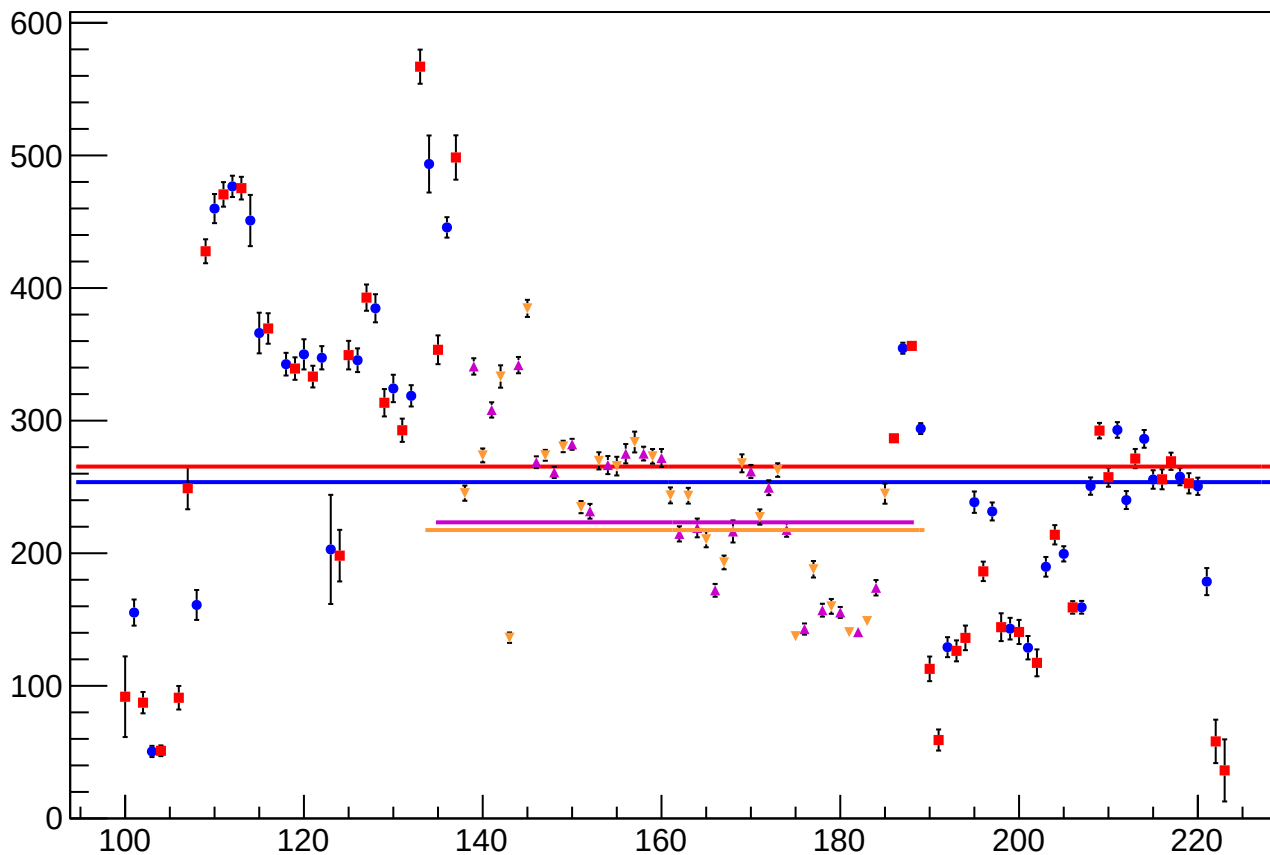
Right: 14.319 ± 0.734 $\chi^2/\text{NDF}: 1198.7/73$

In: 6.673 ± 0.656 $\chi^2/\text{NDF}: 1155.1/57$

Out: 7.306 ± 0.611 $\chi^2/\text{NDF}: 1256.4/63$

All: 7.012 ± 0.447 $\chi^2/\text{NDF}: 2412.0/121$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 253.638 $\pm$ 1.222 χ^2 /NDF: 7196.2/34

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF:3769.5/24

Right Out: 265.367 $\pm$ 1.075 χ^2 /NDF: 11315.6/38

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

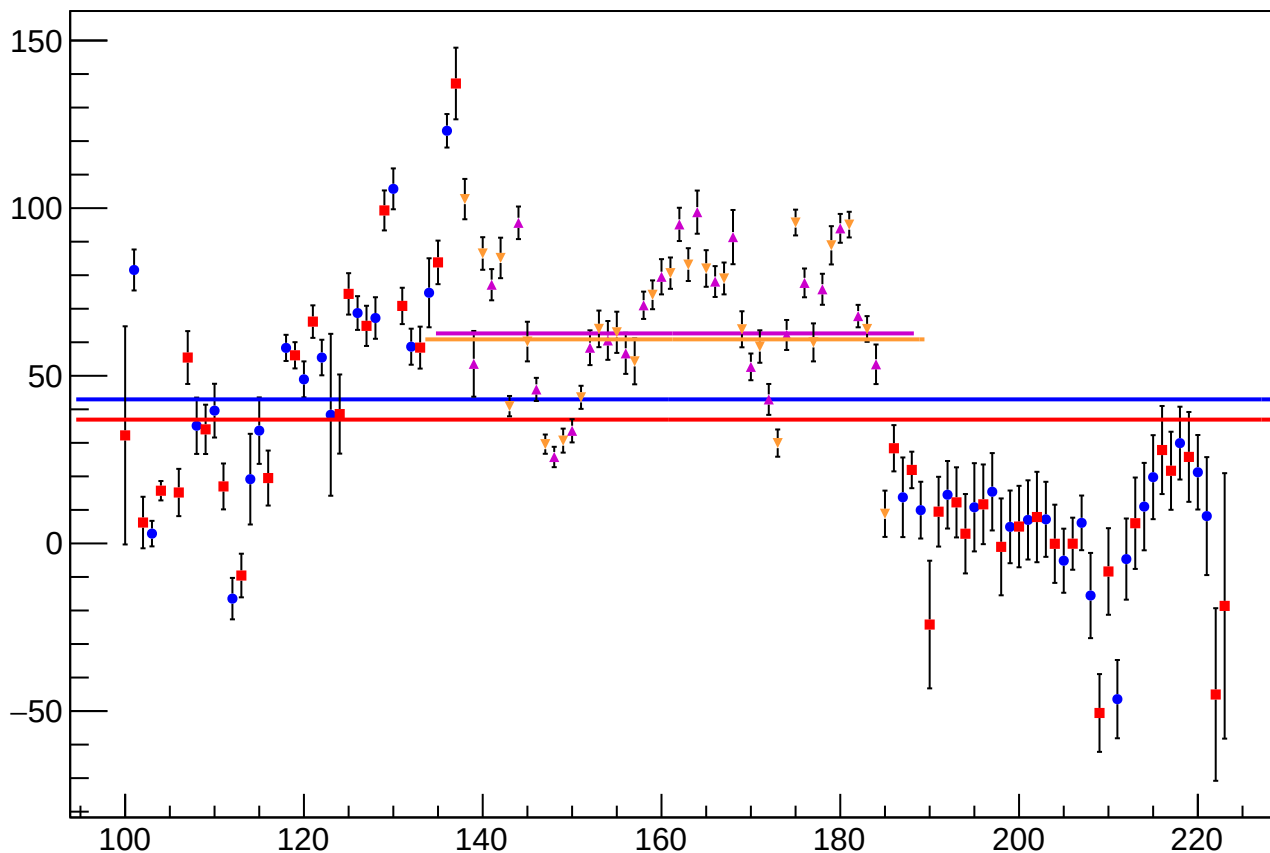
Right: 260.248 $\pm$ 0.807 χ^2 /NDF: 18563.8/73

In: 236.361 $\pm$ 0.801 χ^2 /NDF:10925.3/57

Out: 240.455 $\pm$ 0.745 χ^2 /NDF:16117.2/63

All: 238.558 $\pm$ 0.546 χ^2 /NDF: 27056.5/121

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.967 ± 1.262 $\chi^2/\text{NDF}: 925.6/34$

Left Out: 60.863 ± 0.897 $\chi^2/\text{NDF}: 731.6/24$

Right Out: 36.931 ± 1.185 $\chi^2/\text{NDF}: 754.0/38$

Left In: 62.640 ± 0.943 $\chi^2/\text{NDF}: 515.4/22$

Left: 61.707 ± 0.650 $\chi^2/\text{NDF}: 1248.9/47$

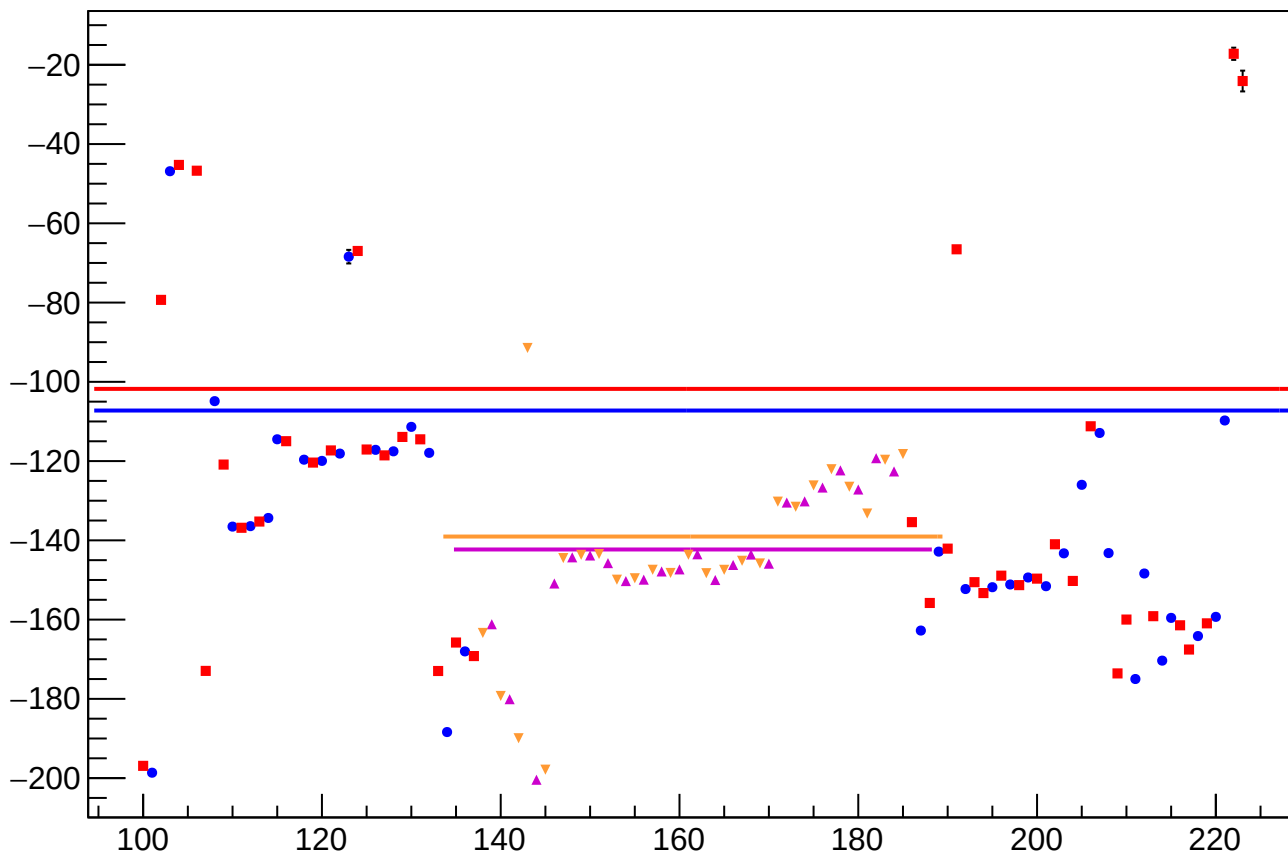
Right: 39.760 ± 0.864 $\chi^2/\text{NDF}: 1691.7/73$

In: 55.593 ± 0.755 $\chi^2/\text{NDF}: 1597.0/57$

Out: 52.149 ± 0.715 $\chi^2/\text{NDF}: 1745.0/63$

All: 53.777 ± 0.519 $\chi^2/\text{NDF}: 3352.9/121$

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -107.242+/-0.057 χ^2/NDF : 751634.6/34

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -101.779+/-0.054 χ^2/NDF : 789661.0/38

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

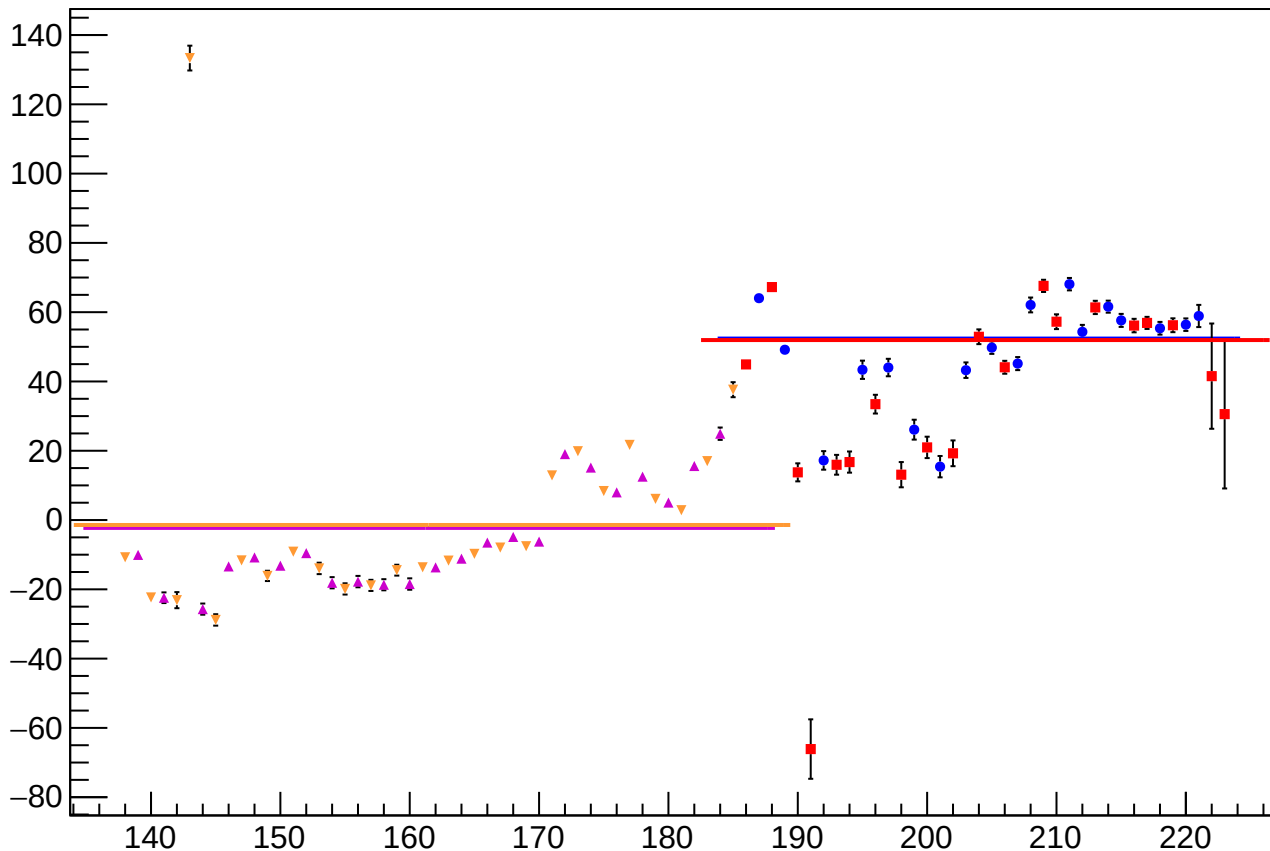
Right: -104.372+/-0.039 χ^2/NDF : 1546158.7/73

In: -129.119+/-0.035 χ^2/NDF : 1132969.3/57

Out: -124.627+/-0.034 χ^2/NDF : 1339996.5/63

All: -126.791+/-0.024 χ^2/NDF : 2481590.4/12

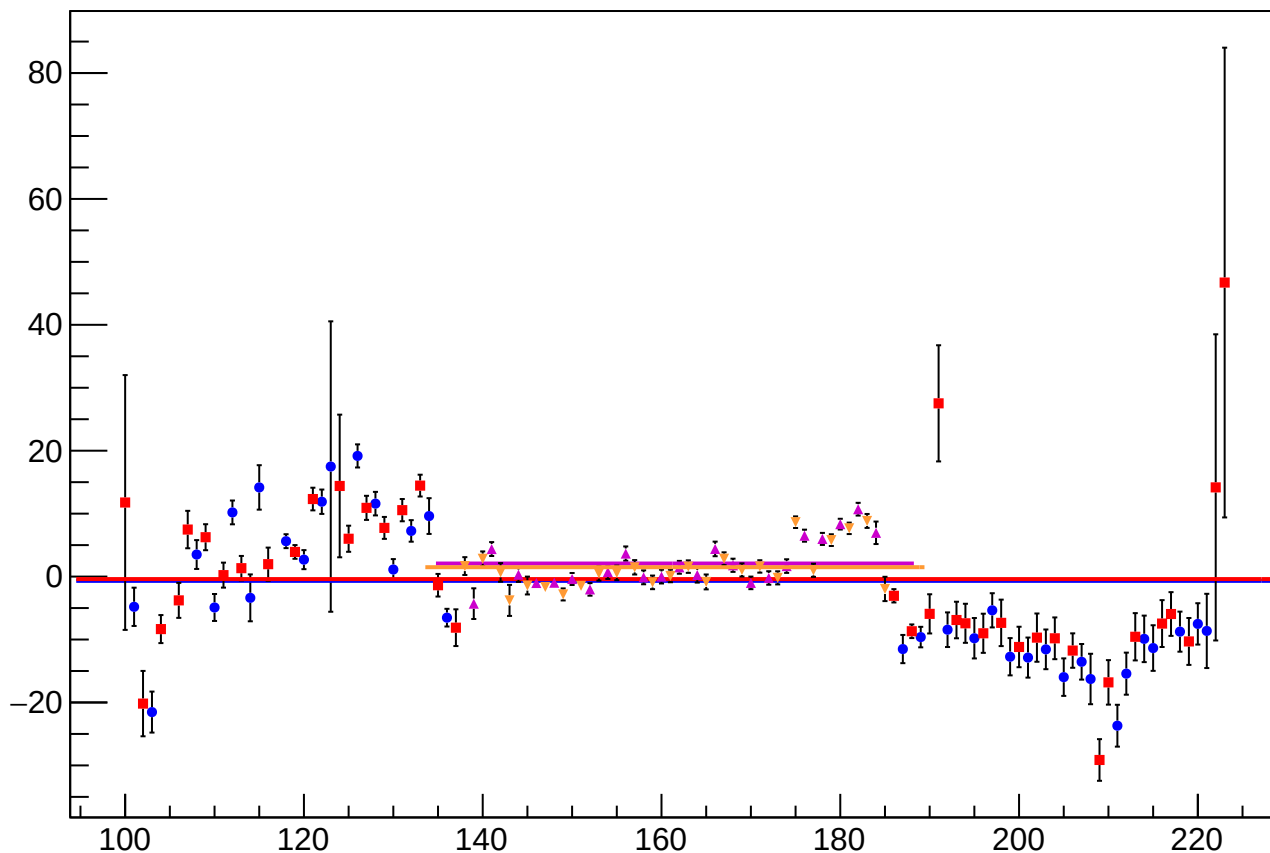
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 52.380 ± 0.470 $\chi^2/\text{NDF}: 677.1/17$
 Left Out: -1.427 ± 0.268 $\chi^2/\text{NDF}: 4339.0/24$
 Right Out: 51.953 ± 0.410 $\chi^2/\text{NDF}: 1636.4/19$
 Left In: -2.270 ± 0.271 $\chi^2/\text{NDF}: 2521.6/22$

Left: -1.844 ± 0.190 $\chi^2/\text{NDF}: 6865.5/47$
 Right: 52.138 ± 0.309 $\chi^2/\text{NDF}: 2314.0/37$
 In: 11.352 ± 0.235 $\chi^2/\text{NDF}: 13355.1/40$
 Out: 14.530 ± 0.224 $\chi^2/\text{NDF}: 17867.3/44$
 All: 13.014 ± 0.162 $\chi^2/\text{NDF}: 31318.4/85$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.678 ± 0.390 χ^2/NDF : 667.2/34

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: -0.397 ± 0.363 χ^2/NDF : 559.8/38

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

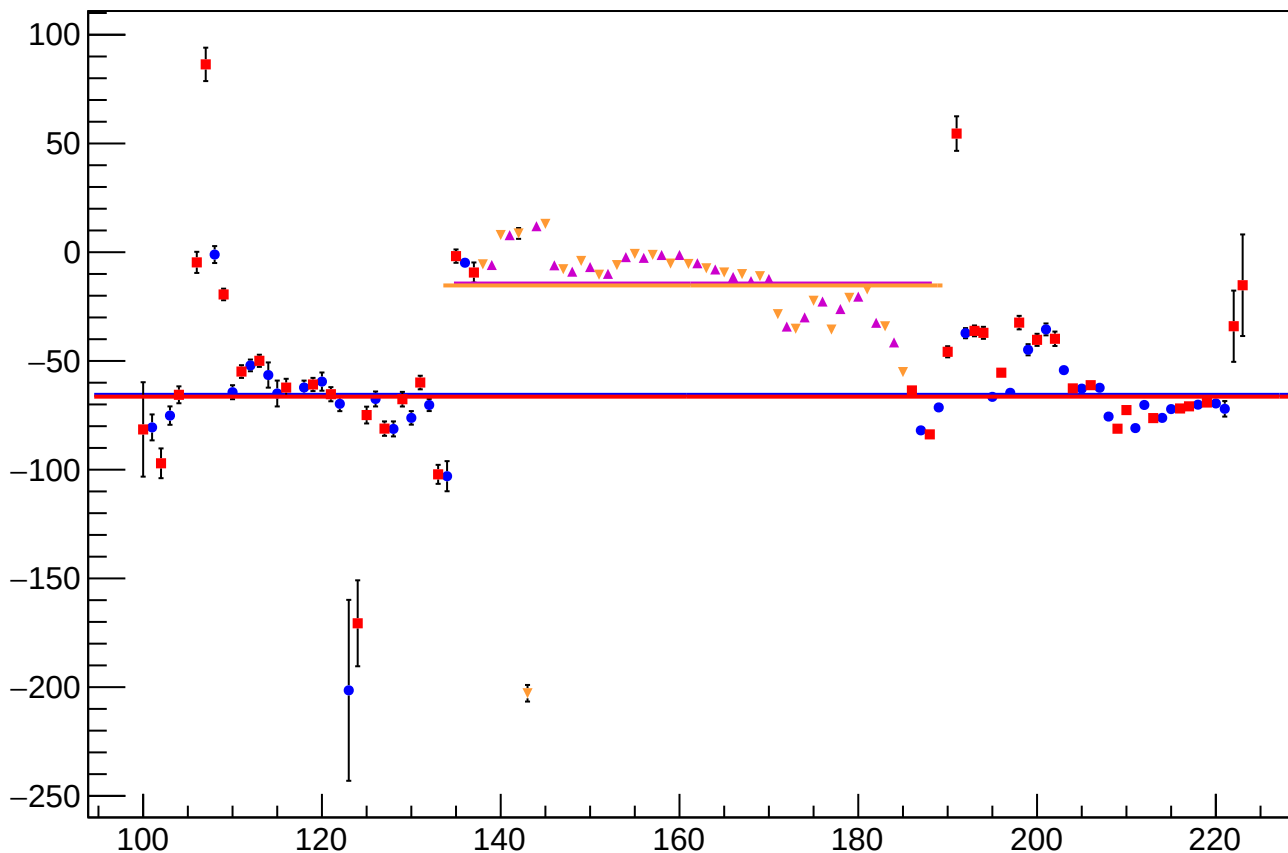
Right: -0.528 ± 0.266 χ^2/NDF : 1227.2/73

In: 1.430 ± 0.188 χ^2/NDF : 980.0/57

Out: 1.017 ± 0.182 χ^2/NDF : 839.1/63

All: 1.217 ± 0.131 χ^2/NDF : 1821.5/121

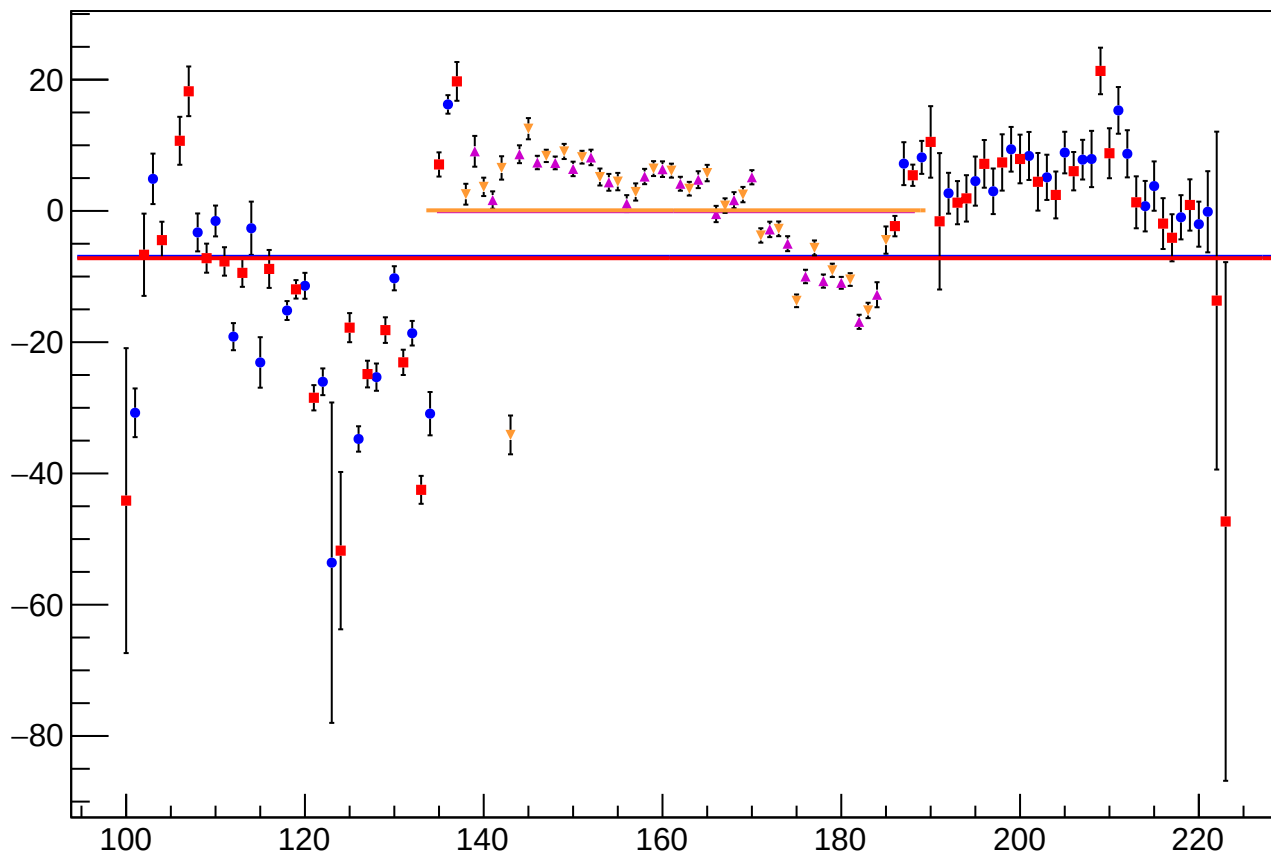
reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.583 ± 0.399 $\chi^2/\text{NDF}: 1923.3/34$
 Left Out: -15.279 ± 0.267 $\chi^2/\text{NDF}: 4820.1/24$
 Right Out: -66.420 ± 0.334 $\chi^2/\text{NDF}: 3442.4/38$
 Left In: -14.406 ± 0.269 $\chi^2/\text{NDF}: 2032.4/22$

Left: -14.846 ± 0.189 $\chi^2/\text{NDF}: 6857.8/47$
 Right: -66.074 ± 0.256 $\chi^2/\text{NDF}: 5368.3/73$
 In: -30.418 ± 0.223 $\chi^2/\text{NDF}: 15271.4/57$
 Out: -35.180 ± 0.209 $\chi^2/\text{NDF}: 22561.3/63$
 All: -32.960 ± 0.152 $\chi^2/\text{NDF}: 38075.9/121$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.993 ± 0.448 χ^2/NDF : 1162.4/34

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -7.208 ± 0.433 χ^2/NDF : 1105.6/38

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

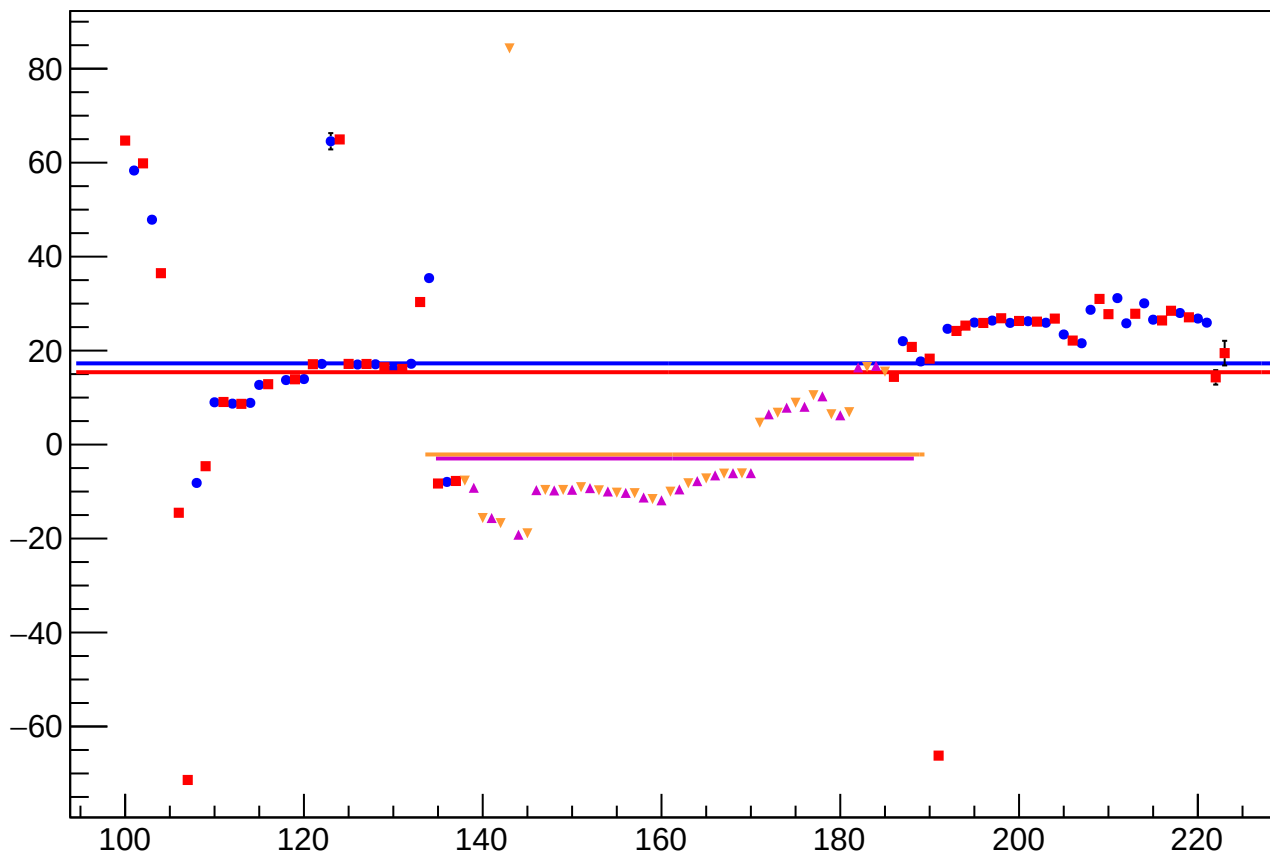
Right: -7.104 ± 0.312 χ^2/NDF : 2268.1/73

In: -1.622 ± 0.214 χ^2/NDF : 2376.2/57

Out: -1.608 ± 0.209 χ^2/NDF : 2495.7/63

All: -1.615 ± 0.149 χ^2/NDF : 4871.9/121

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 17.283+/-0.022 χ^2/NDF : 498477.8/34

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 15.402+/-0.022 χ^2/NDF : 776655.1/38

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

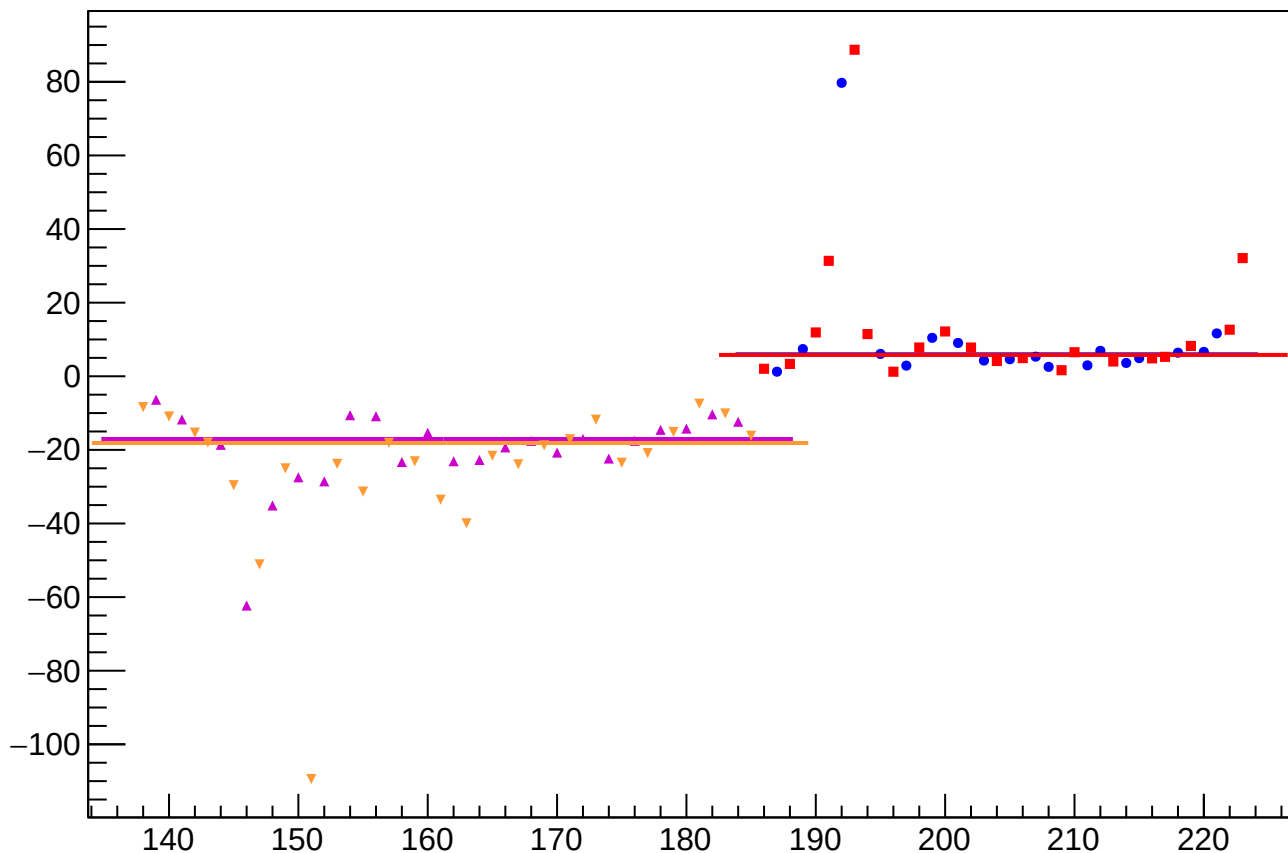
Right: 16.331+/-0.016 χ^2/NDF : 1278709.4/73

In: 0.985+/-0.010 χ^2/NDF : 1921078.8/57

Out: 1.331+/-0.010 χ^2/NDF : 2374122.1/63

All: 1.159+/-0.007 χ^2/NDF : 4295822.0/121

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.963 $\pm$ 0.045 χ^2 /NDF: 27223.5/17

Left Out: -18.128 $\pm$ 0.039 χ^2 /NDF: 88551.6/24

Right Out: 5.803 $\pm$ 0.044 χ^2 /NDF: 29952.9/19

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

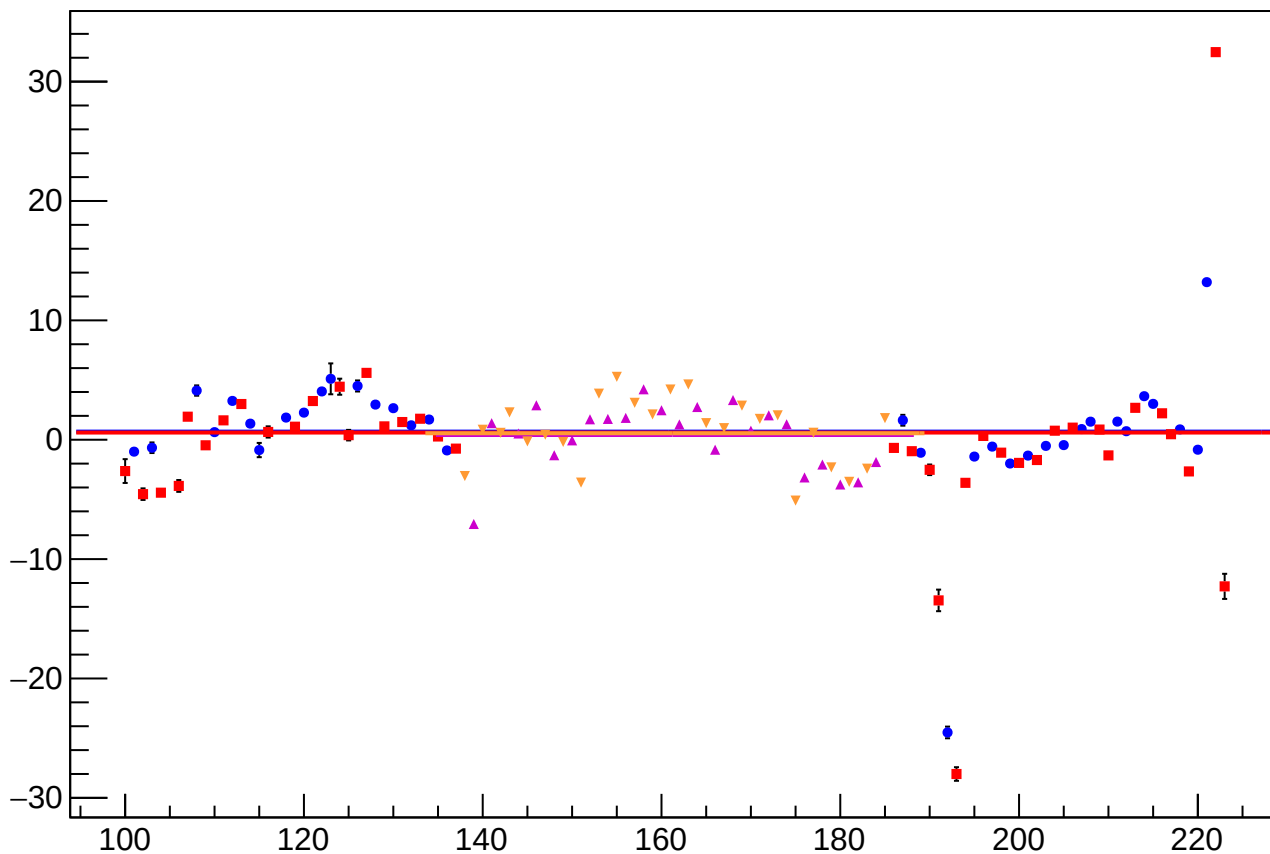
Right: 5.883 $\pm$ 0.031 χ^2 /NDF: 57182.9/37

In: -7.301 $\pm$ 0.029 χ^2 /NDF: 225230.2/40

Out: -7.691 $\pm$ 0.029 χ^2 /NDF: 283455.2/44

All: -7.494 $\pm$ 0.021 χ^2 /NDF: 508775.2/85

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.681 ± 0.045 $\chi^2/\text{NDF}: 5176.3/34$

Left Out: 0.543 ± 0.032 $\chi^2/\text{NDF}: 7085.3/24$

Right Out: 0.602 ± 0.043 $\chi^2/\text{NDF}: 11979.1/38$

Left In: 0.397 ± 0.031 $\chi^2/\text{NDF}: 6235.6/22$

Left: 0.466 ± 0.022 $\chi^2/\text{NDF}: 13331.6/47$

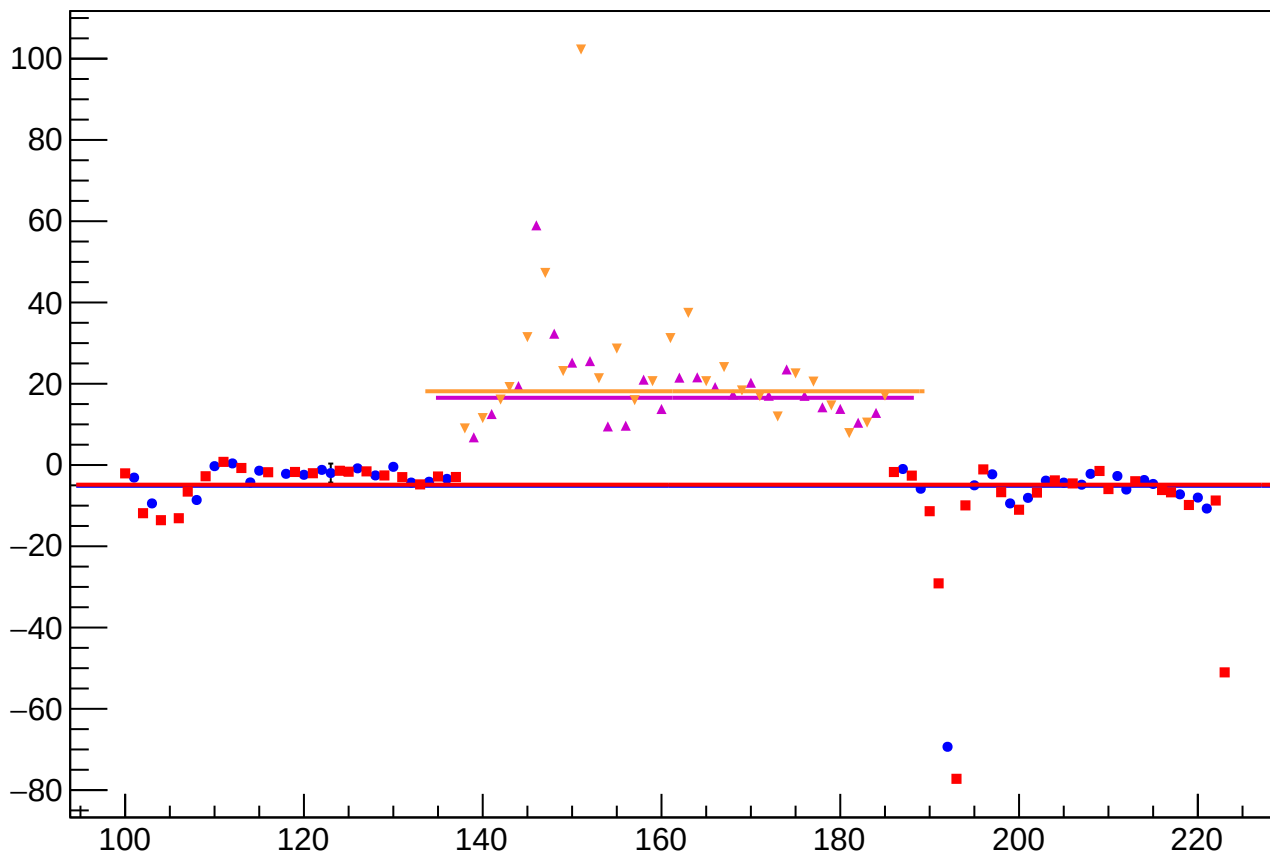
Right: 0.640 ± 0.031 $\chi^2/\text{NDF}: 17157.1/73$

In: 0.487 ± 0.025 $\chi^2/\text{NDF}: 11439.2/57$

Out: 0.564 ± 0.026 $\chi^2/\text{NDF}: 19065.6/63$

All: 0.525 ± 0.018 $\chi^2/\text{NDF}: 30509.3/121$

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.118+/-0.040 χ^2/NDF : 28230.9/34

Left Out: 18.150+/-0.039 χ^2/NDF : 77847.8/24

Right Out: -4.837+/-0.038 χ^2/NDF : 34263.5/38

Left In: 16.543+/-0.038 χ^2/NDF : 40855.0/22

Left: 17.318+/-0.027 χ^2/NDF : 119577.9/47

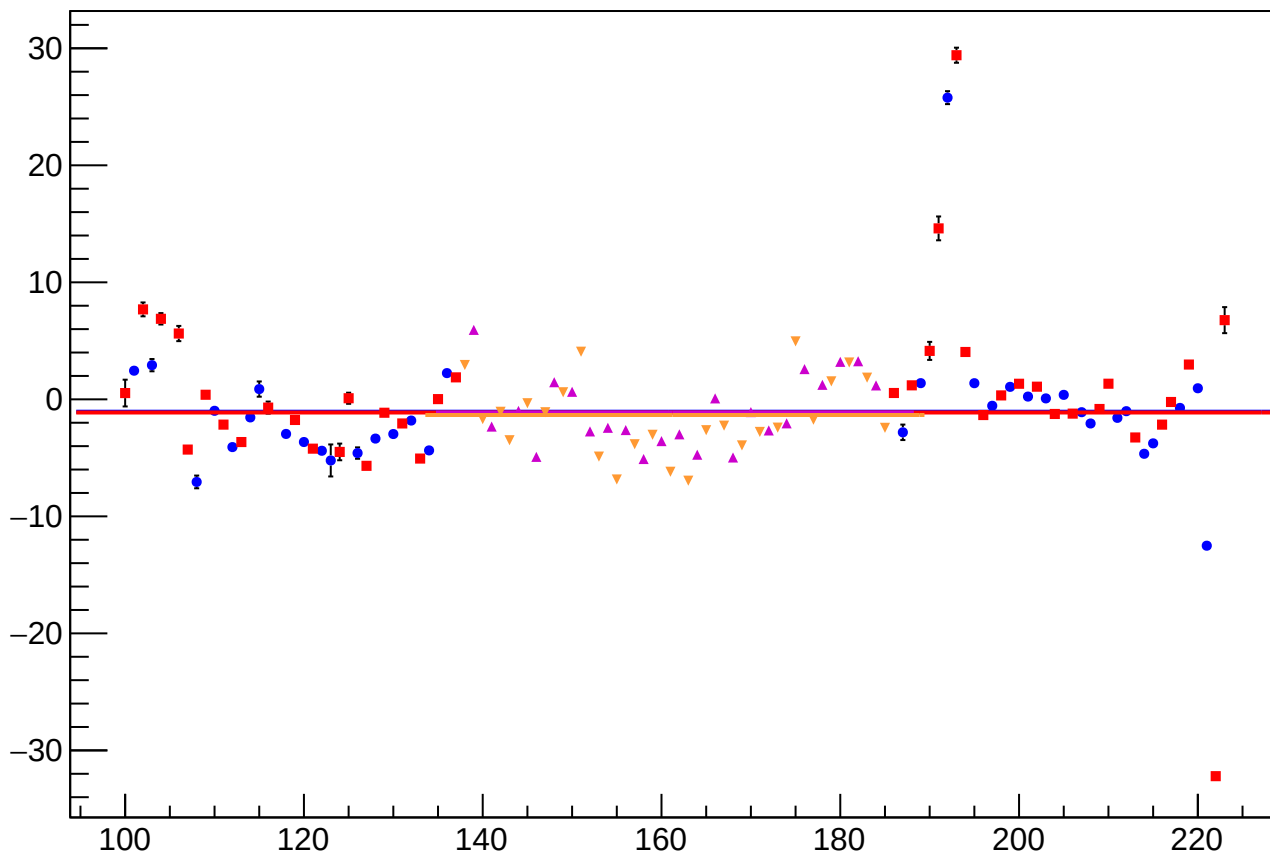
Right: -4.970+/-0.028 χ^2/NDF : 62520.0/73

In: 6.445+/-0.028 χ^2/NDF : 222502.7/57

Out: 6.447+/-0.027 χ^2/NDF : 288115.2/63

All: 6.446+/-0.019 χ^2/NDF : 510617.9/121

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.056 ± 0.051 $\chi^2/\text{NDF}: 5010.3/34$

Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$

Right Out: -1.125 ± 0.049 $\chi^2/\text{NDF}: 10991.7/38$

Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$

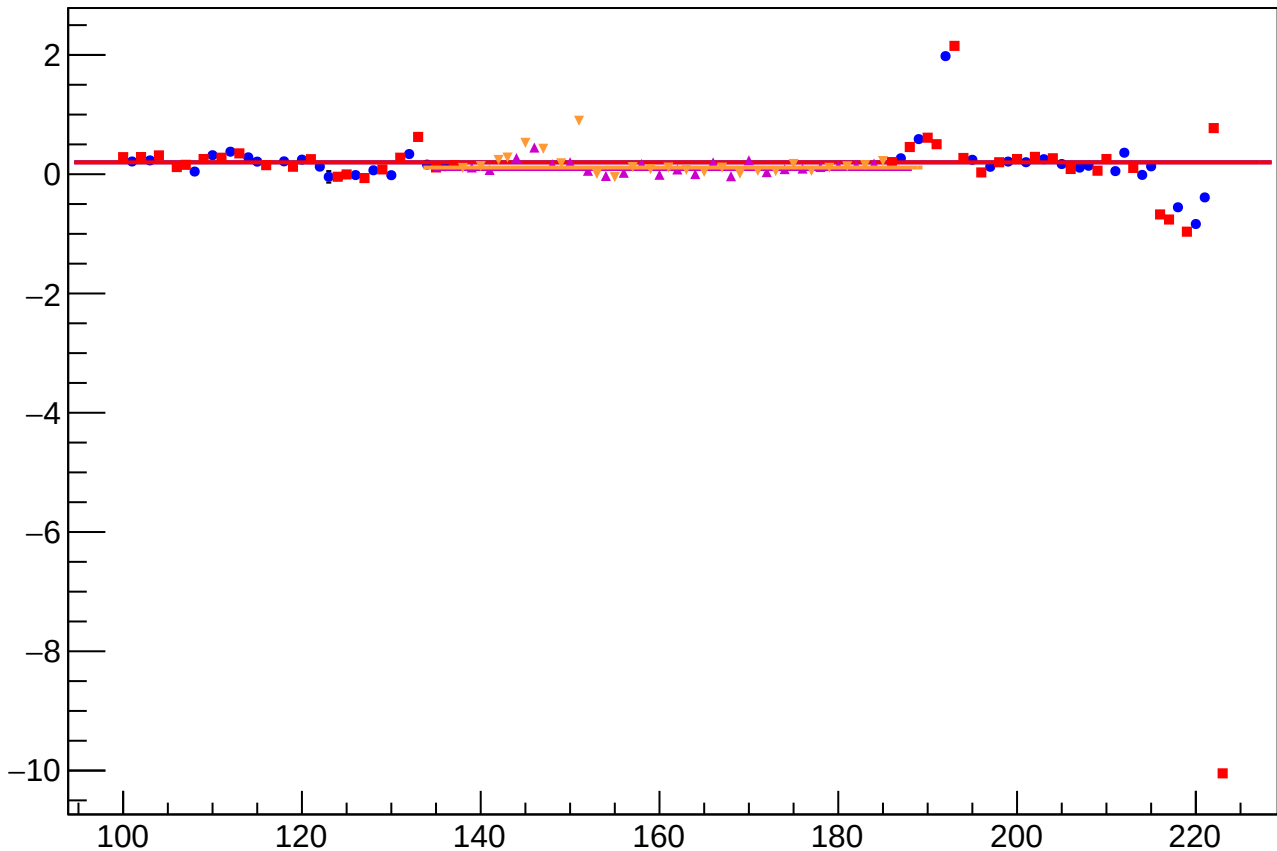
Right: -1.092 ± 0.036 $\chi^2/\text{NDF}: 16002.9/73$

In: -1.107 ± 0.028 $\chi^2/\text{NDF}: 11751.9/57$

Out: -1.264 ± 0.029 $\chi^2/\text{NDF}: 18946.9/63$

All: -1.184 ± 0.020 $\chi^2/\text{NDF}: 30713.8/121$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.200 $\pm$ 0.002 χ^2 /NDF: 16469.3/34

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.199 $\pm$ 0.002 χ^2 /NDF: 37776.0/38

Left In: 0.087 $\pm$ 0.002 χ^2 /NDF:3655.4/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8295.3/47

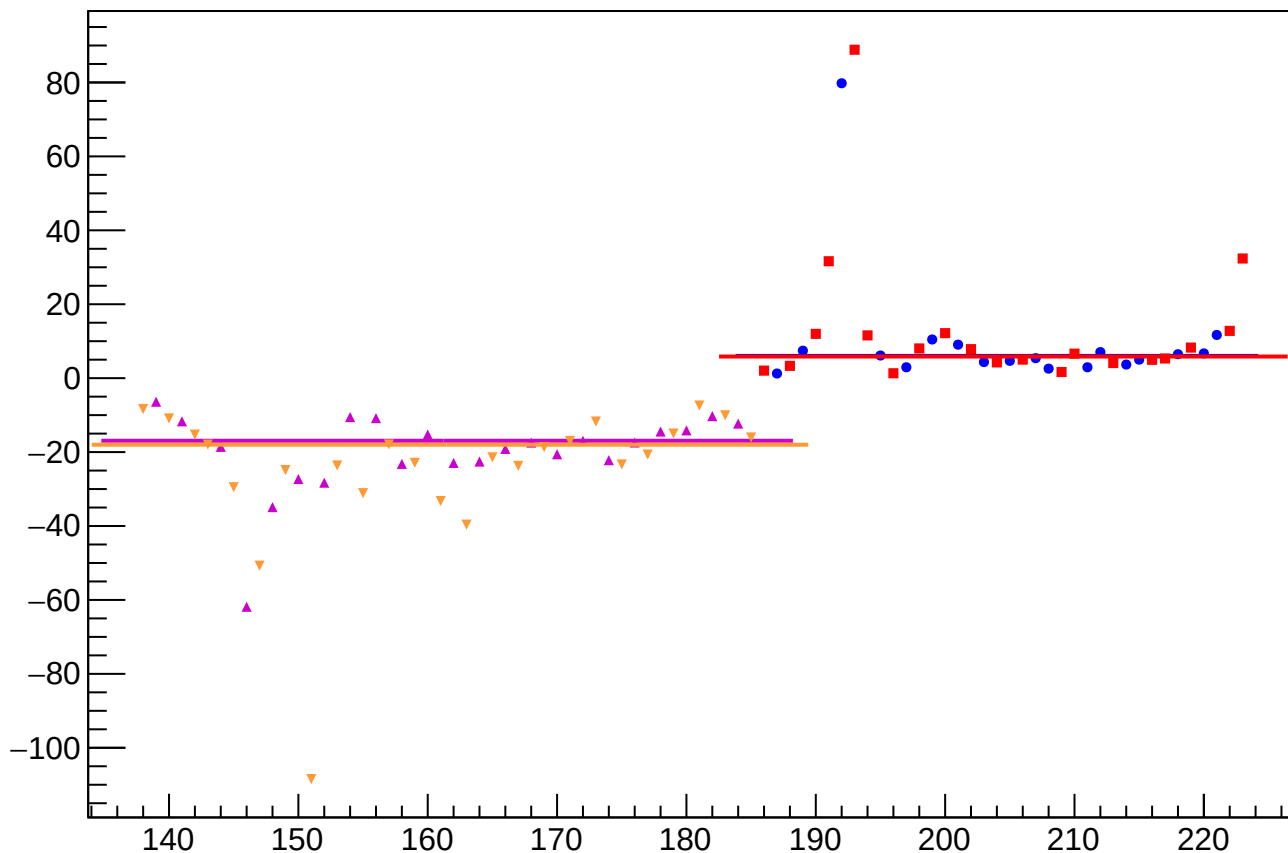
Right: 0.199 $\pm$ 0.002 χ^2 /NDF: 54245.3/73

In: 0.120 $\pm$ 0.001 χ^2 /NDF:21812.8/57

Out: 0.141 $\pm$ 0.001 χ^2 /NDF:43260.9/63

All: 0.130 $\pm$ 0.001 χ^2 /NDF: 65206.7/121

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.016 $\pm$ 0.044 χ^2 /NDF: 27447.9/17

Left Out: -18.005 $\pm$ 0.039 χ^2 /NDF: 88391.0/24

Right Out: 5.853 $\pm$ 0.044 χ^2 /NDF: 30392.9/19

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

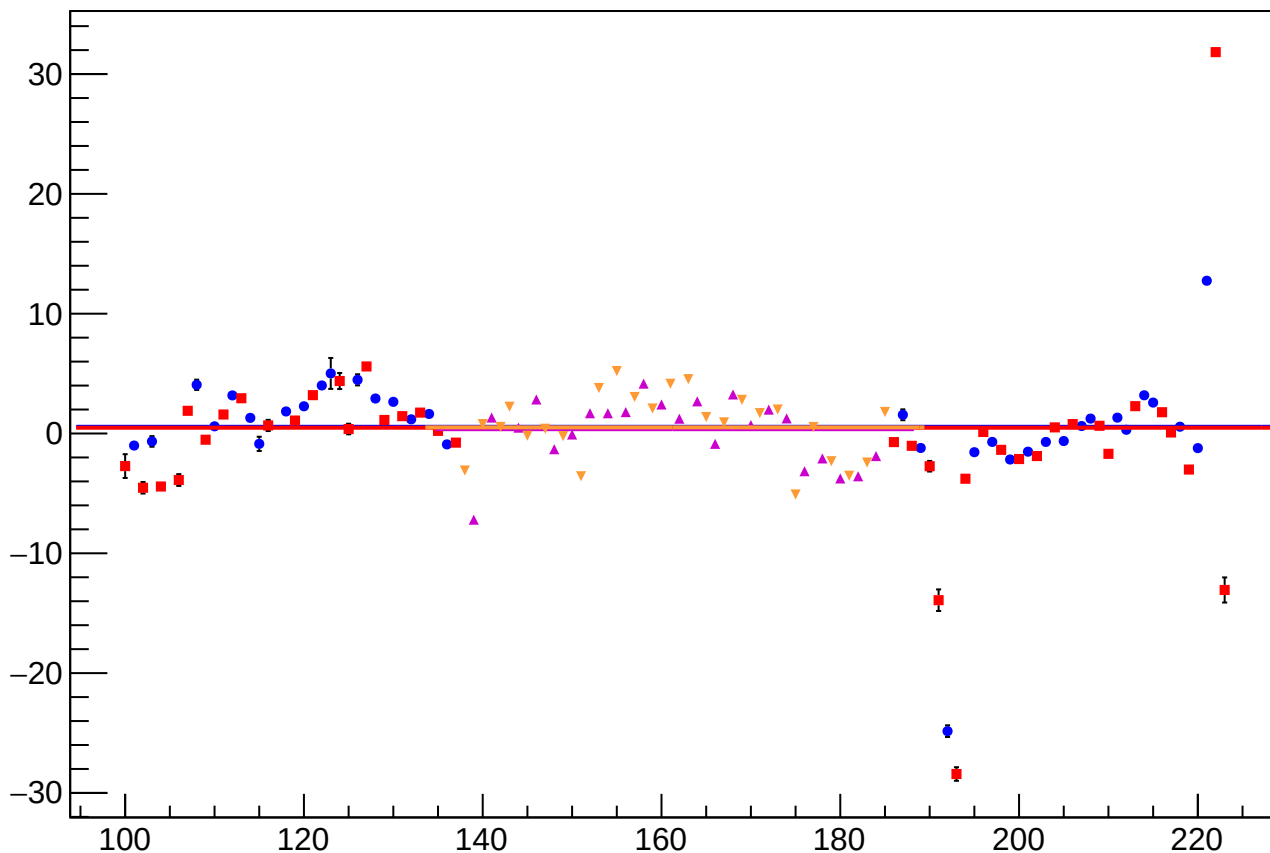
Right: 5.934 $\pm$ 0.031 χ^2 /NDF: 57847.7/37

In: -7.243 $\pm$ 0.029 χ^2 /NDF: 226319.1/40

Out: -7.612 $\pm$ 0.029 χ^2 /NDF: 284855.6/44

All: -7.426 $\pm$ 0.020 χ^2 /NDF: 511255.7/85

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.559 ± 0.045 $\chi^2/\text{NDF}: 5232.4/34$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.482 ± 0.043 $\chi^2/\text{NDF}: 12006.2/38$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

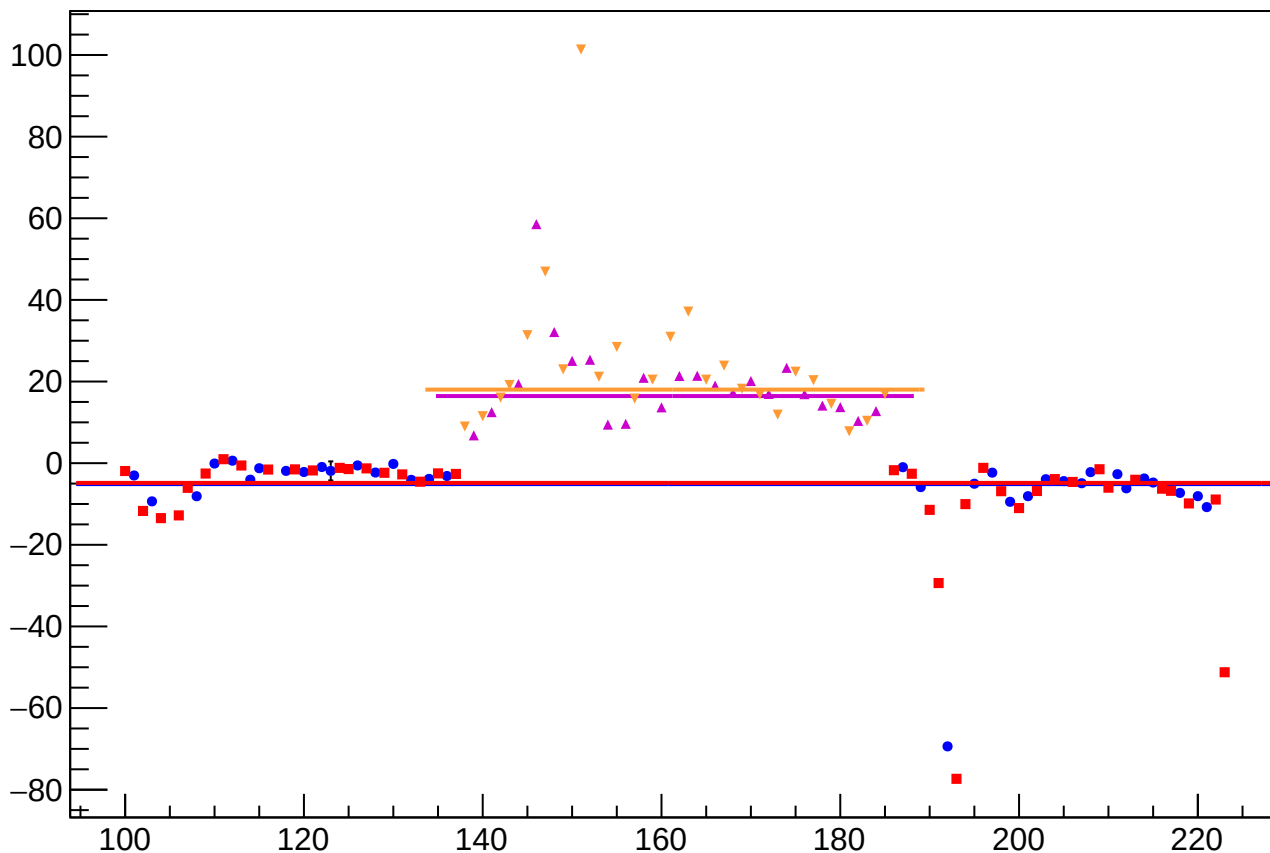
Right: 0.519 ± 0.031 $\chi^2/\text{NDF}: 17240.1/73$

In: 0.423 ± 0.025 $\chi^2/\text{NDF}: 11467.0/57$

Out: 0.501 ± 0.026 $\chi^2/\text{NDF}: 19076.9/63$

All: 0.461 ± 0.018 $\chi^2/\text{NDF}: 30548.5/121$

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.129 ± 0.040 $\chi^2/\text{NDF}: 28587.5/34$

Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$

Right Out: -4.834 ± 0.038 $\chi^2/\text{NDF}: 34868.6/38$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

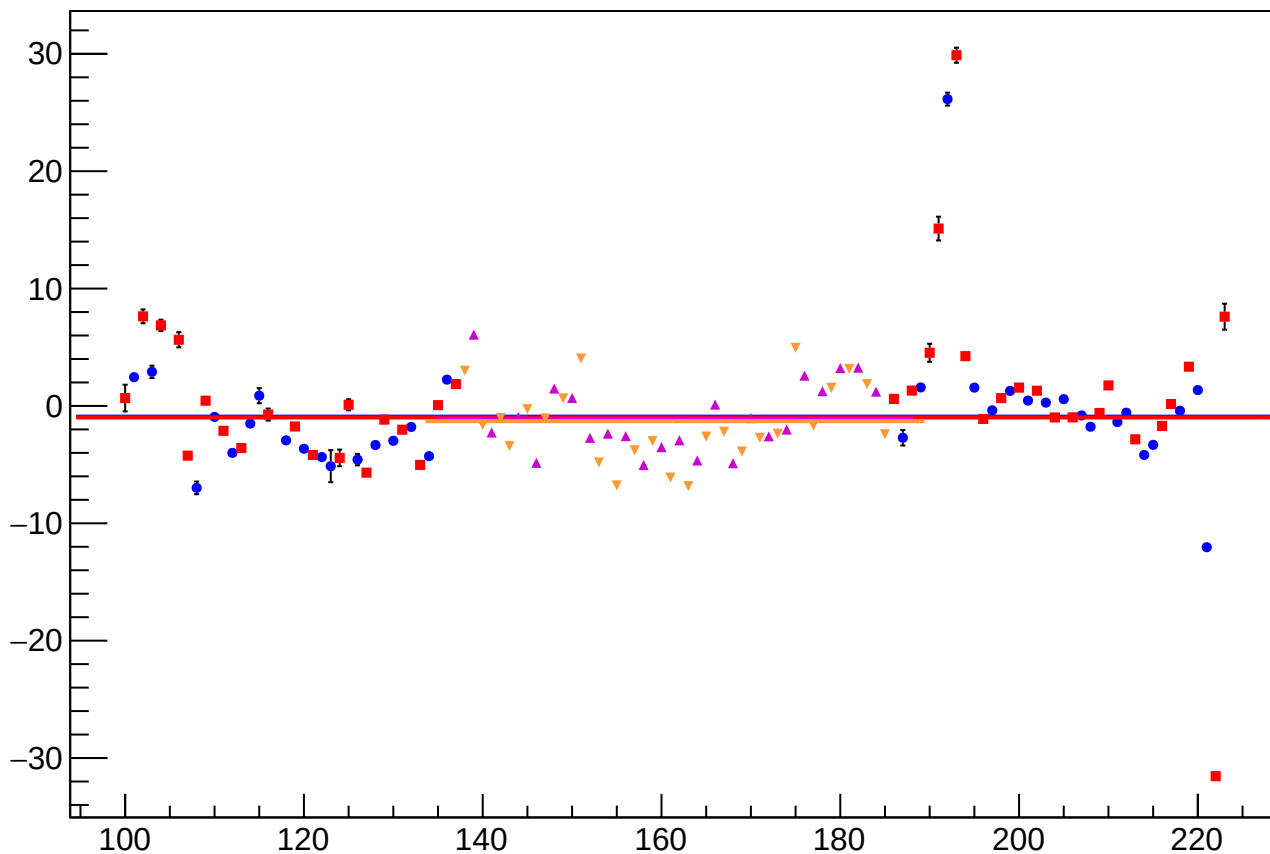
Right: -4.974 ± 0.028 $\chi^2/\text{NDF}: 63484.6/73$

In: 6.410 ± 0.027 $\chi^2/\text{NDF}: 223195.0/57$

Out: 6.396 ± 0.027 $\chi^2/\text{NDF}: 289021.9/63$

All: 6.403 ± 0.019 $\chi^2/\text{NDF}: 512217.1/121$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.912 ± 0.051 χ^2/NDF : 5053.2/34

Left Out: -1.297 ± 0.036 χ^2/NDF : 7925.1/24

Right Out: -0.983 ± 0.049 χ^2/NDF : 11033.1/38

Left In: -1.082 ± 0.034 χ^2/NDF : 6724.1/22

Left: -1.184 ± 0.025 χ^2/NDF : 14668.4/47

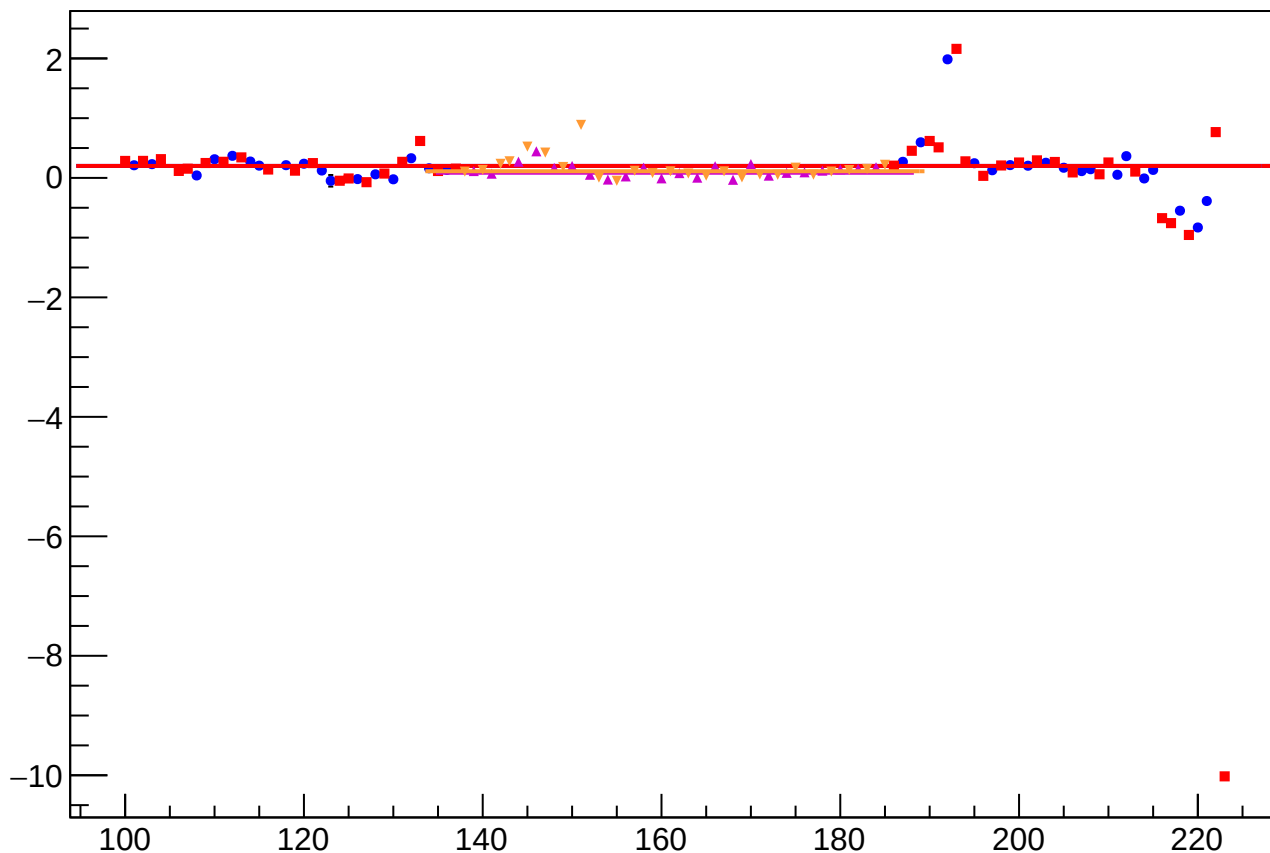
Right: -0.949 ± 0.035 χ^2/NDF : 16087.3/73

In: -1.030 ± 0.028 χ^2/NDF : 11784.9/57

Out: -1.189 ± 0.029 χ^2/NDF : 18984.9/63

All: -1.108 ± 0.020 χ^2/NDF : 30785.4/121

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.200 $\pm$ 0.002 χ^2 /NDF: 16605.5/34

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF: 4496.0/24

Right Out: 0.200 $\pm$ 0.002 χ^2 /NDF: 37968.1/38

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

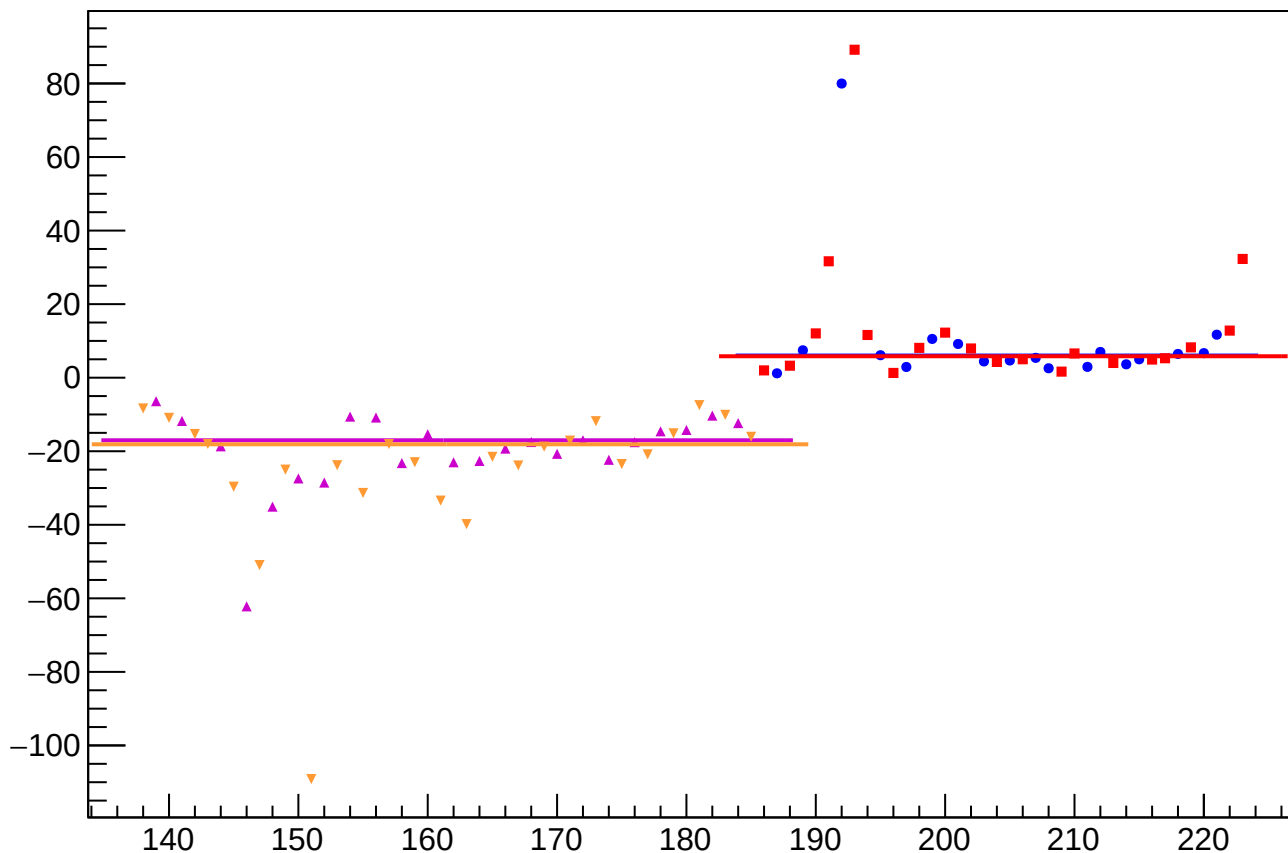
Right: 0.200 $\pm$ 0.002 χ^2 /NDF: 54573.6/73

In: 0.120 $\pm$ 0.001 χ^2 /NDF: 21960.7/57

Out: 0.141 $\pm$ 0.001 χ^2 /NDF: 43500.1/63

All: 0.130 $\pm$ 0.001 χ^2 /NDF: 65591.7/121

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.016 ± 0.045 $\chi^2/\text{NDF}: 27432.6/17$

Left Out: -18.112 ± 0.039 $\chi^2/\text{NDF}: 88529.7/24$

Right Out: 5.829 ± 0.044 $\chi^2/\text{NDF}: 30396.4/19$

Left In: -17.024 ± 0.038 $\chi^2/\text{NDF}: 44141.8/22$

Left: -17.557 ± 0.027 $\chi^2/\text{NDF}: 133072.9/47$

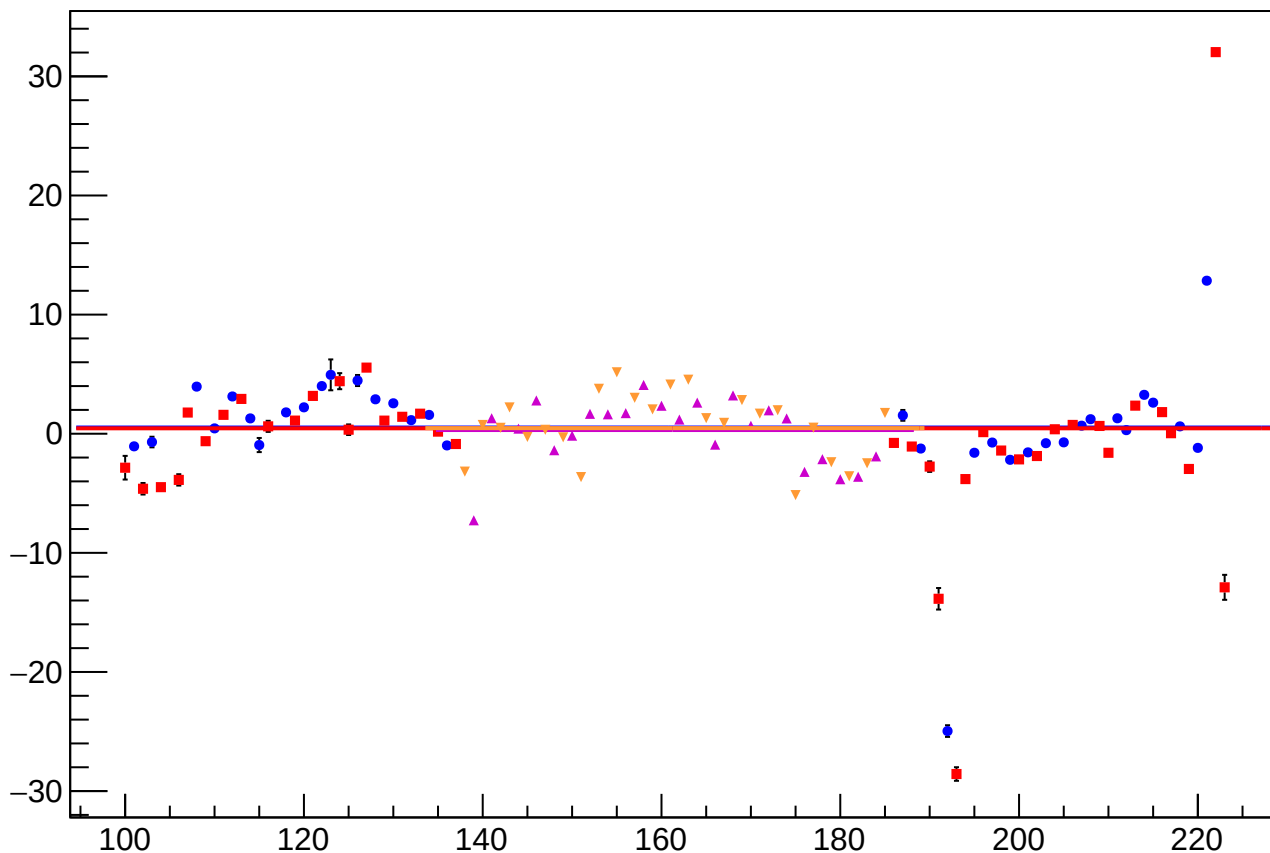
Right: 5.921 ± 0.031 $\chi^2/\text{NDF}: 57837.9/37$

In: -7.329 ± 0.029 $\chi^2/\text{NDF}: 225854.4/40$

Out: -7.691 ± 0.029 $\chi^2/\text{NDF}: 284599.3/44$

All: -7.509 ± 0.021 $\chi^2/\text{NDF}: 510531.4/85$

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.521 ± 0.045 $\chi^2/\text{NDF}: 5238.5/34$

Left Out: 0.469 ± 0.032 $\chi^2/\text{NDF}: 7093.0/24$

Right Out: 0.454 ± 0.043 $\chi^2/\text{NDF}: 12014.6/38$

Left In: 0.311 ± 0.031 $\chi^2/\text{NDF}: 6183.1/22$

Left: 0.386 ± 0.022 $\chi^2/\text{NDF}: 13288.8/47$

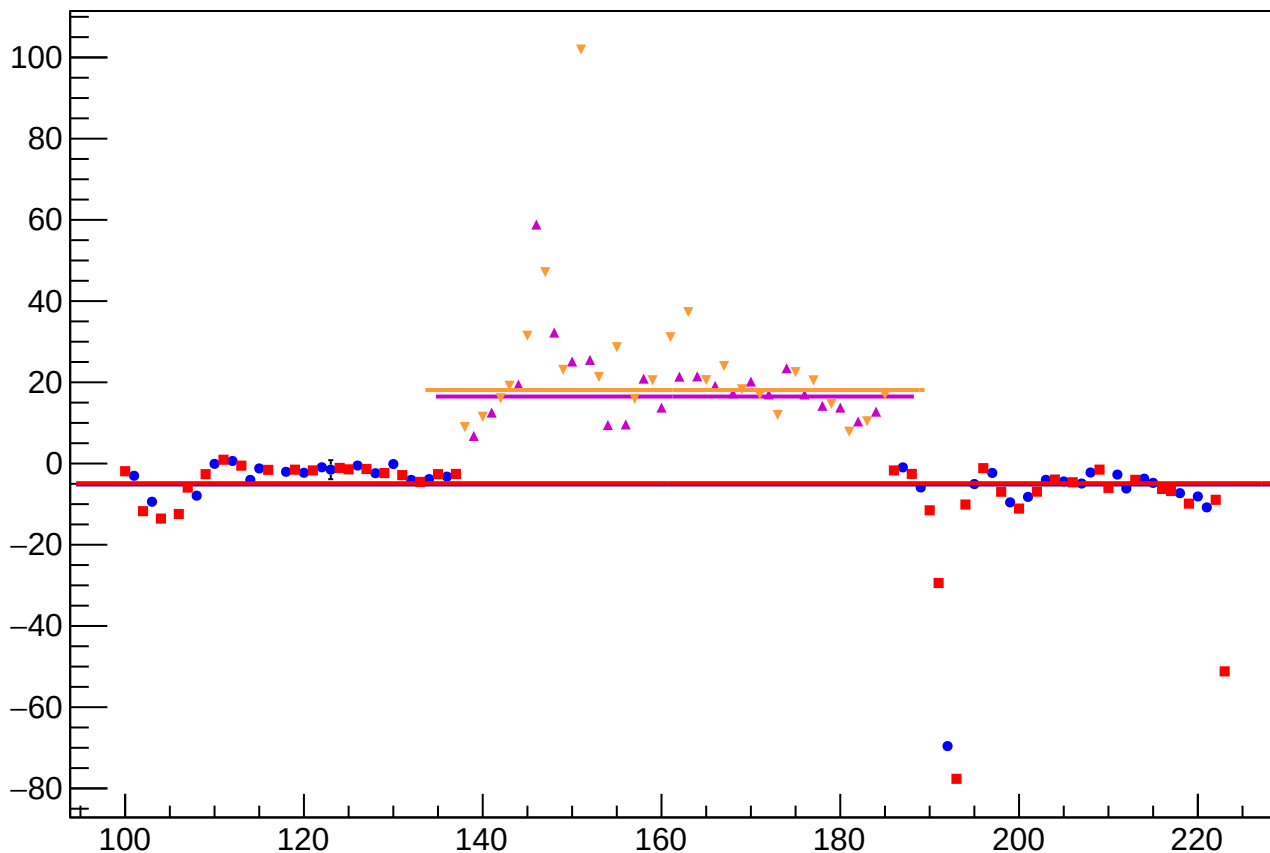
Right: 0.486 ± 0.031 $\chi^2/\text{NDF}: 17254.2/73$

In: 0.377 ± 0.025 $\chi^2/\text{NDF}: 11436.5/57$

Out: 0.464 ± 0.026 $\chi^2/\text{NDF}: 19107.7/63$

All: 0.420 ± 0.018 $\chi^2/\text{NDF}: 30549.9/121$

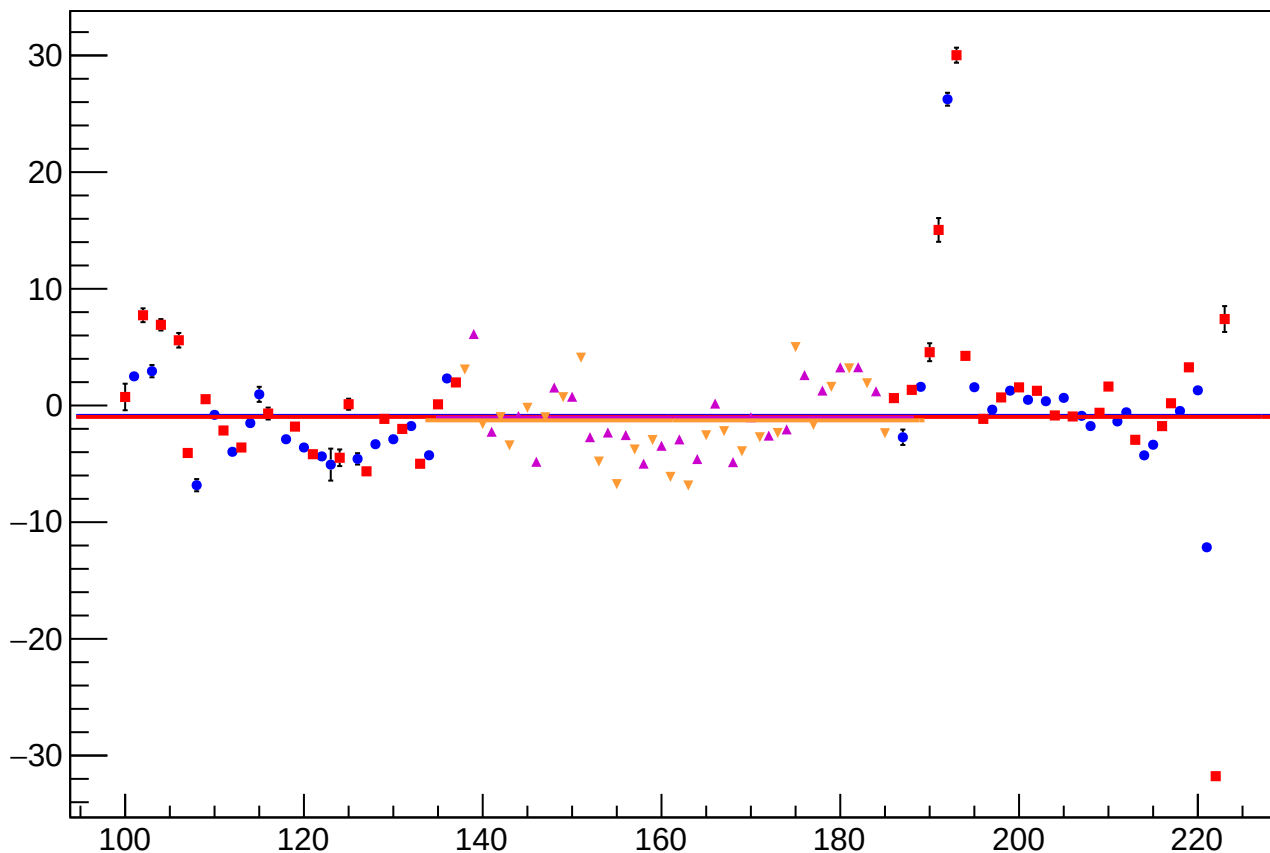
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.158 ± 0.040 $\chi^2/\text{NDF}: 28569.5/34$
 Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$
 Right Out: -4.841 ± 0.038 $\chi^2/\text{NDF}: 34846.9/38$
 Left In: 16.496 ± 0.038 $\chi^2/\text{NDF}: 40867.3/22$

Left: 17.270 ± 0.027 $\chi^2/\text{NDF}: 119584.1/47$
 Right: -4.991 ± 0.028 $\chi^2/\text{NDF}: 63448.7/73$
 In: 6.455 ± 0.028 $\chi^2/\text{NDF}: 222784.8/57$
 Out: 6.429 ± 0.027 $\chi^2/\text{NDF}: 288843.6/63$
 All: 6.442 ± 0.019 $\chi^2/\text{NDF}: 511628.8/121$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.891 ± 0.051 χ^2/NDF : 5061.6/34

Left Out: -1.273 ± 0.036 χ^2/NDF : 7951.6/24

Right Out: -0.977 ± 0.049 χ^2/NDF : 11041.2/38

Left In: -1.050 ± 0.034 χ^2/NDF : 6673.4/22

Left: -1.156 ± 0.025 χ^2/NDF : 14645.3/47

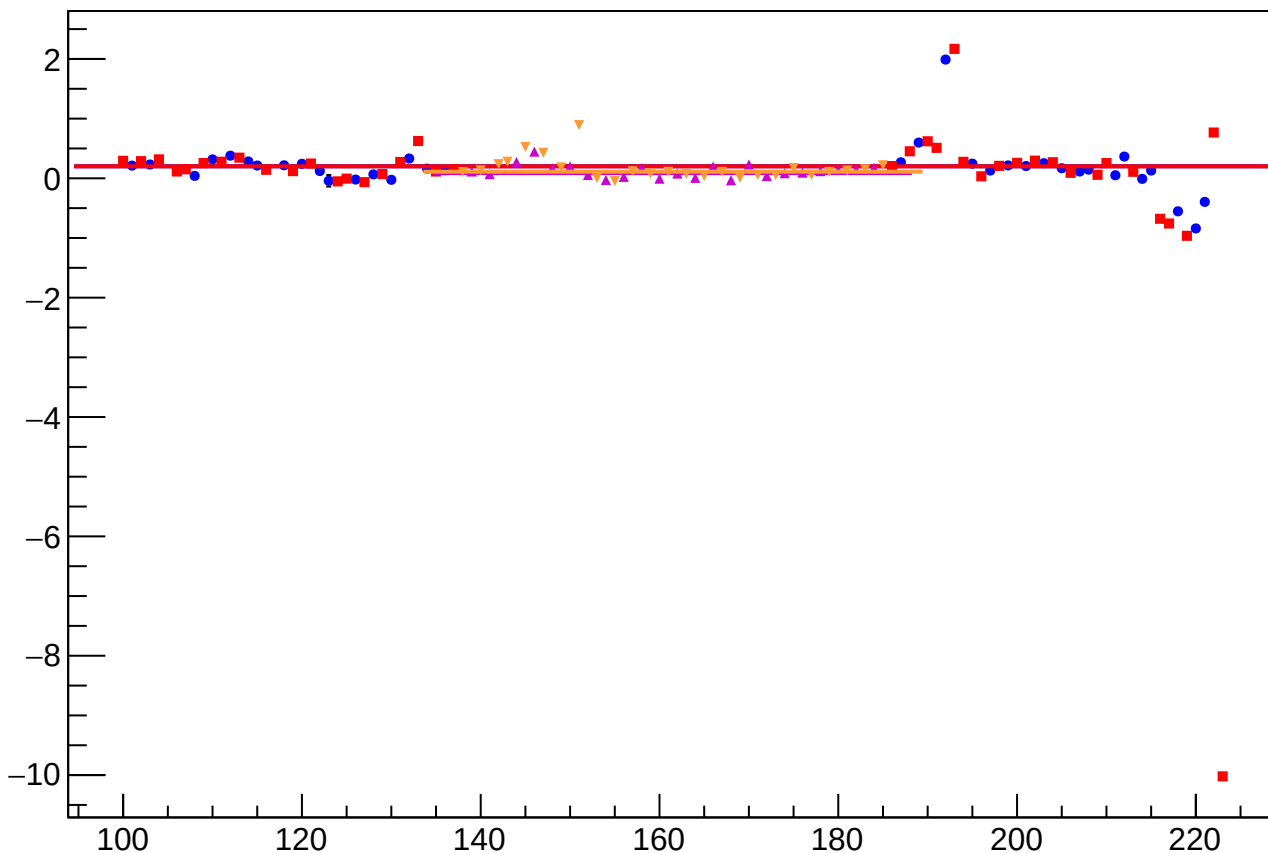
Right: -0.936 ± 0.036 χ^2/NDF : 16104.2/73

In: -1.002 ± 0.028 χ^2/NDF : 11741.6/57

Out: -1.171 ± 0.029 χ^2/NDF : 19016.3/63

All: -1.085 ± 0.020 χ^2/NDF : 30775.3/121

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.201+/-0.002 χ^2/NDF : 16626.8/34

Left Out: 0.111+/-0.002 χ^2/NDF : 4474.5/24

Right Out: 0.201+/-0.002 χ^2/NDF : 37952.1/38

Left In: 0.087+/-0.001 χ^2/NDF : 3598.5/22

Left: 0.098+/-0.001 χ^2/NDF : 8197.1/47

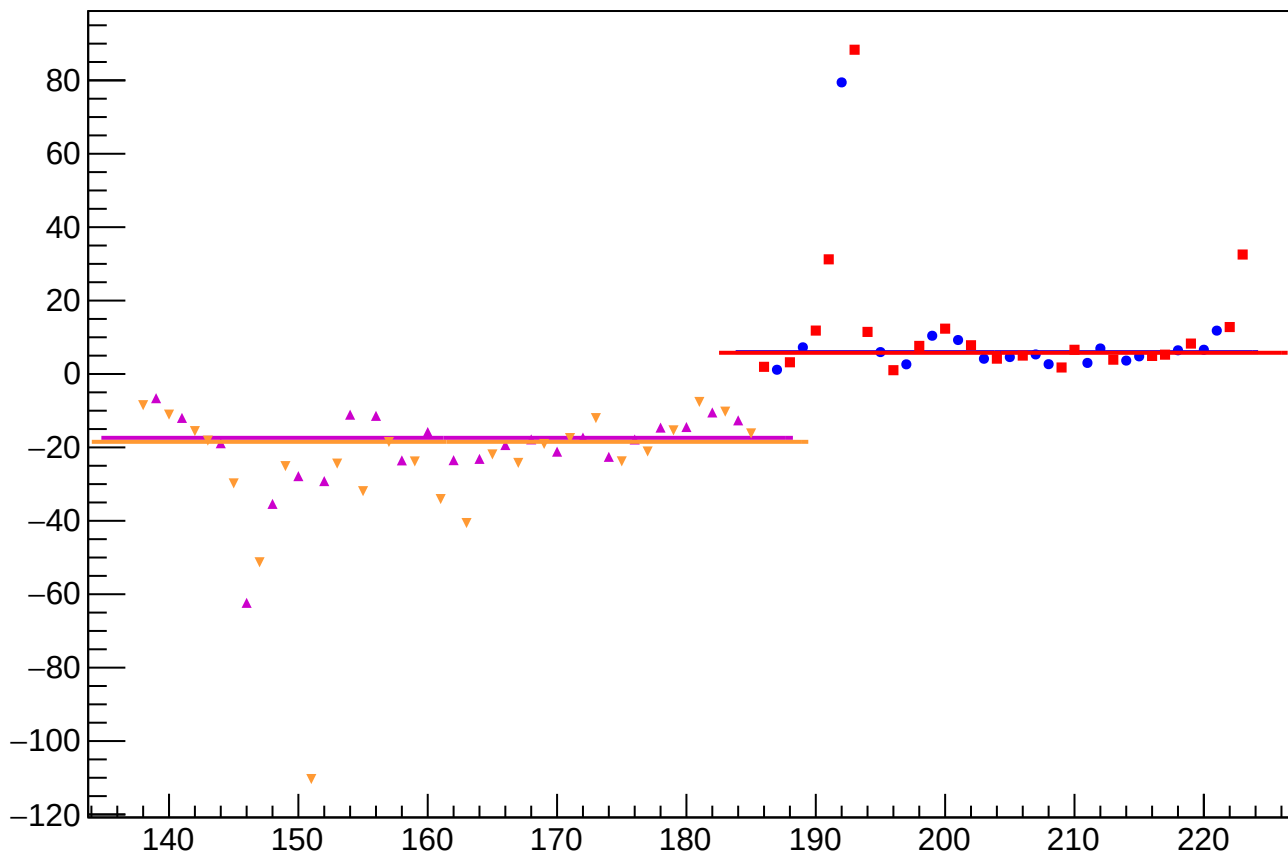
Right: 0.201+/-0.002 χ^2/NDF : 54579.0/73

In: 0.121+/-0.001 χ^2/NDF : 21957.8/57

Out: 0.141+/-0.001 χ^2/NDF : 43473.1/63

All: 0.131+/-0.001 χ^2/NDF : 65556.4/121

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



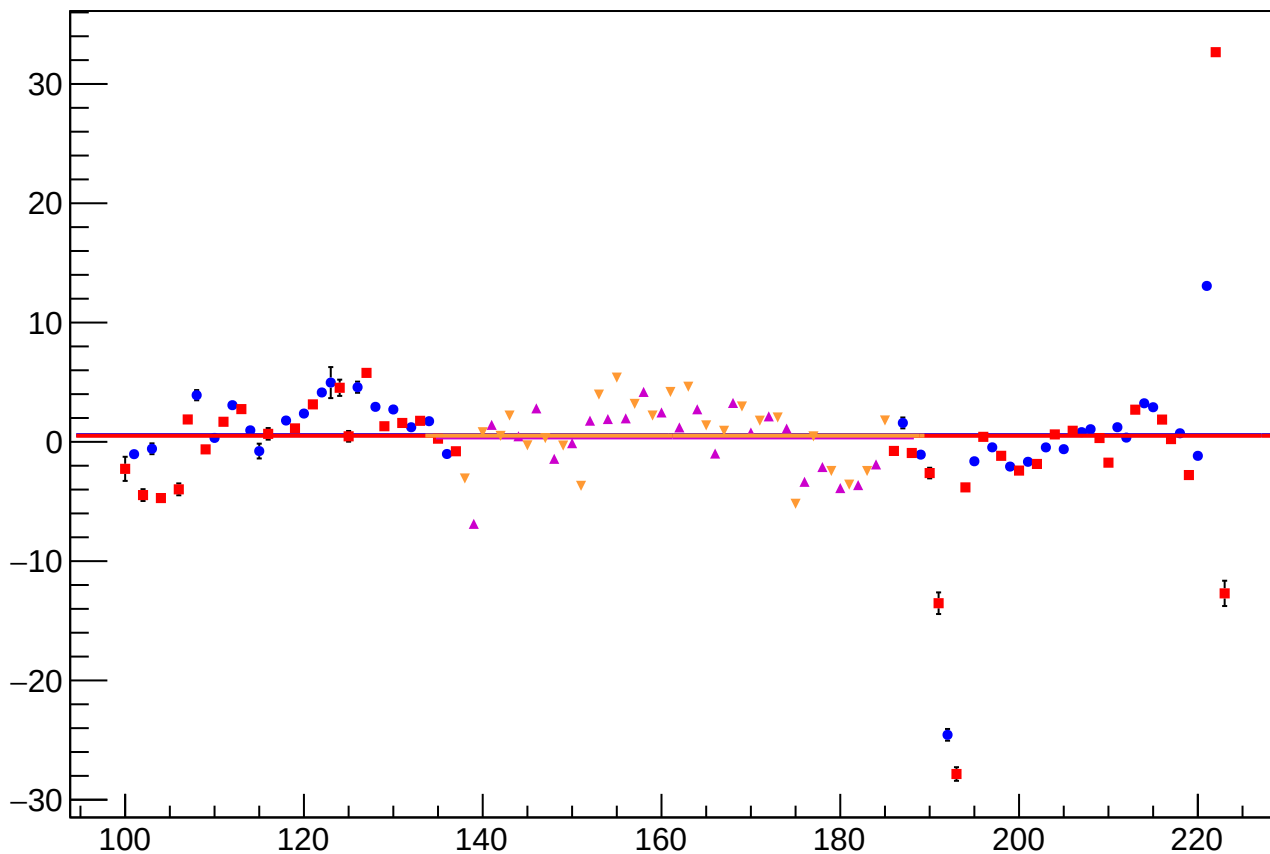
Right In: 5.960 $\pm$ 0.045 χ^2 /NDF: 26980.8/17
 Left Out: -18.479 $\pm$ 0.040 χ^2 /NDF: 87883.4/24
 Right Out: 5.782 $\pm$ 0.044 χ^2 /NDF: 29805.5/19
 Left In: -17.393 $\pm$ 0.039 χ^2 /NDF: 43178.9/22

Left: -17.926 $\pm$ 0.028 χ^2 /NDF: 131443.9/47
 Right: 5.870 $\pm$ 0.032 χ^2 /NDF: 56794.2/37

In: -7.362 $\pm$ 0.029 χ^2 /NDF: 224489.6/40
 Out: -7.706 $\pm$ 0.030 χ^2 /NDF: 283509.1/44

All: -7.533 $\pm$ 0.021 χ^2 /NDF: 508066.7/85

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.564 ± 0.046 $\chi^2/\text{NDF}: 5108.5/34$

Left Out: 0.522 ± 0.033 $\chi^2/\text{NDF}: 7055.1/24$

Right Out: 0.512 ± 0.044 $\chi^2/\text{NDF}: 11927.8/38$

Left In: 0.371 ± 0.031 $\chi^2/\text{NDF}: 6217.4/22$

Left: 0.443 ± 0.023 $\chi^2/\text{NDF}: 13283.4/47$

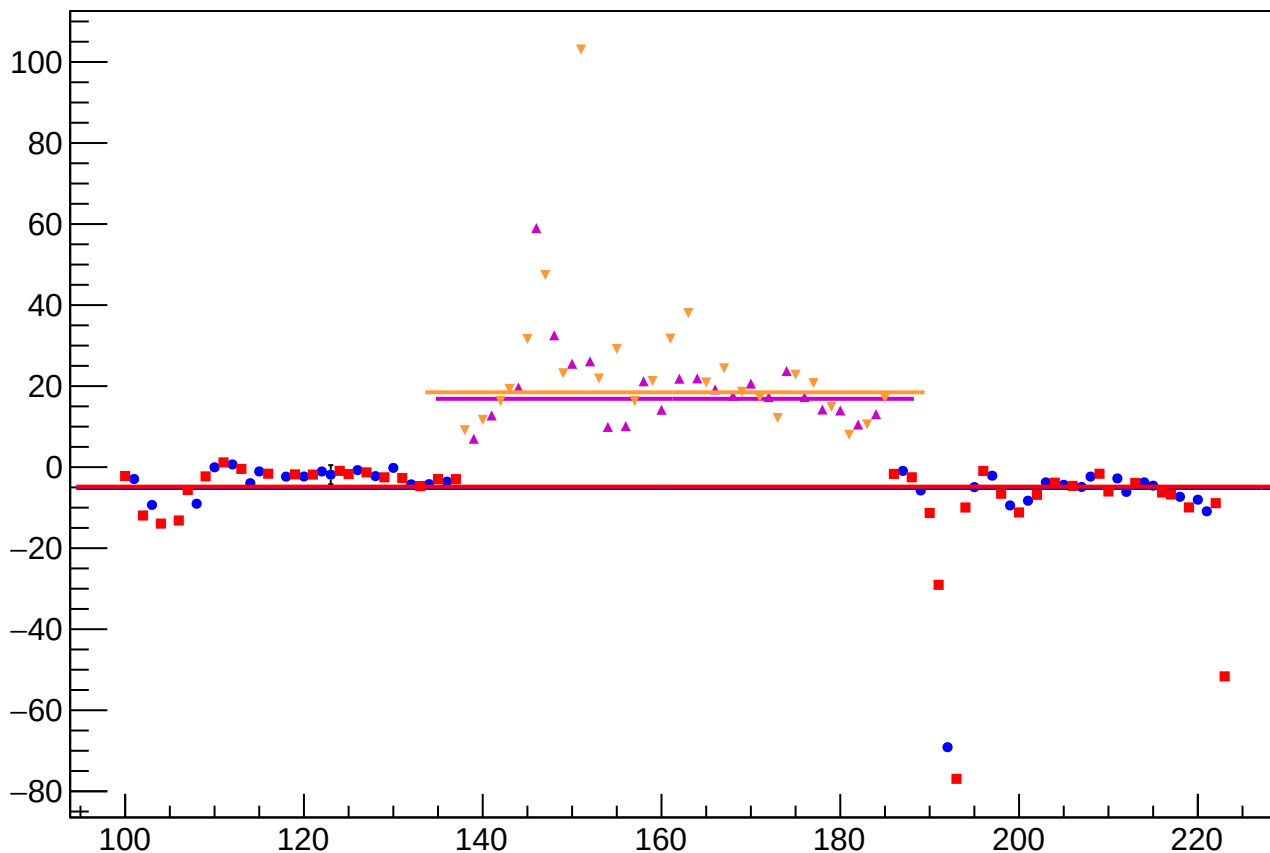
Right: 0.537 ± 0.031 $\chi^2/\text{NDF}: 17037.1/73$

In: 0.434 ± 0.026 $\chi^2/\text{NDF}: 11338.1/57$

Out: 0.518 ± 0.026 $\chi^2/\text{NDF}: 18983.0/63$

All: 0.475 ± 0.018 $\chi^2/\text{NDF}: 30326.3/121$

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.132+/-0.041 χ^2/NDF : 28056.0/34

Left Out: 18.467+/-0.040 χ^2/NDF : 77226.7/24

Right Out: -4.806+/-0.039 χ^2/NDF : 34277.1/38

Left In: 16.867+/-0.039 χ^2/NDF : 39779.0/22

Left: 17.640+/-0.028 χ^2/NDF : 117837.8/47

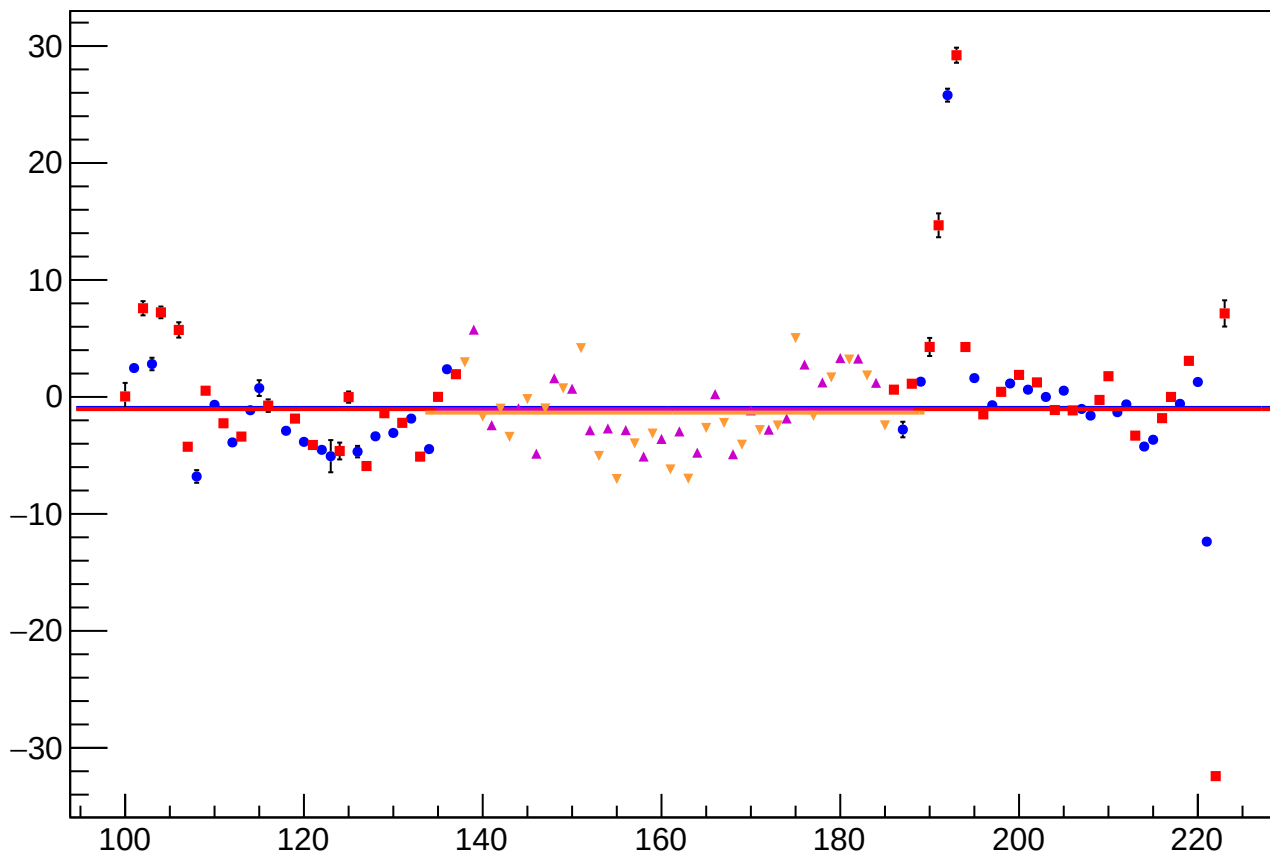
Right: -4.960+/-0.028 χ^2/NDF : 62366.8/73

In: 6.486+/-0.028 χ^2/NDF : 221386.3/57

Out: 6.446+/-0.028 χ^2/NDF : 287369.5/63

All: 6.466+/-0.020 χ^2/NDF : 508756.8/121

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.940 ± 0.052 $\chi^2/\text{NDF}: 4947.3/34$

Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$

Right Out: -1.044 ± 0.050 $\chi^2/\text{NDF}: 10965.7/38$

Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$

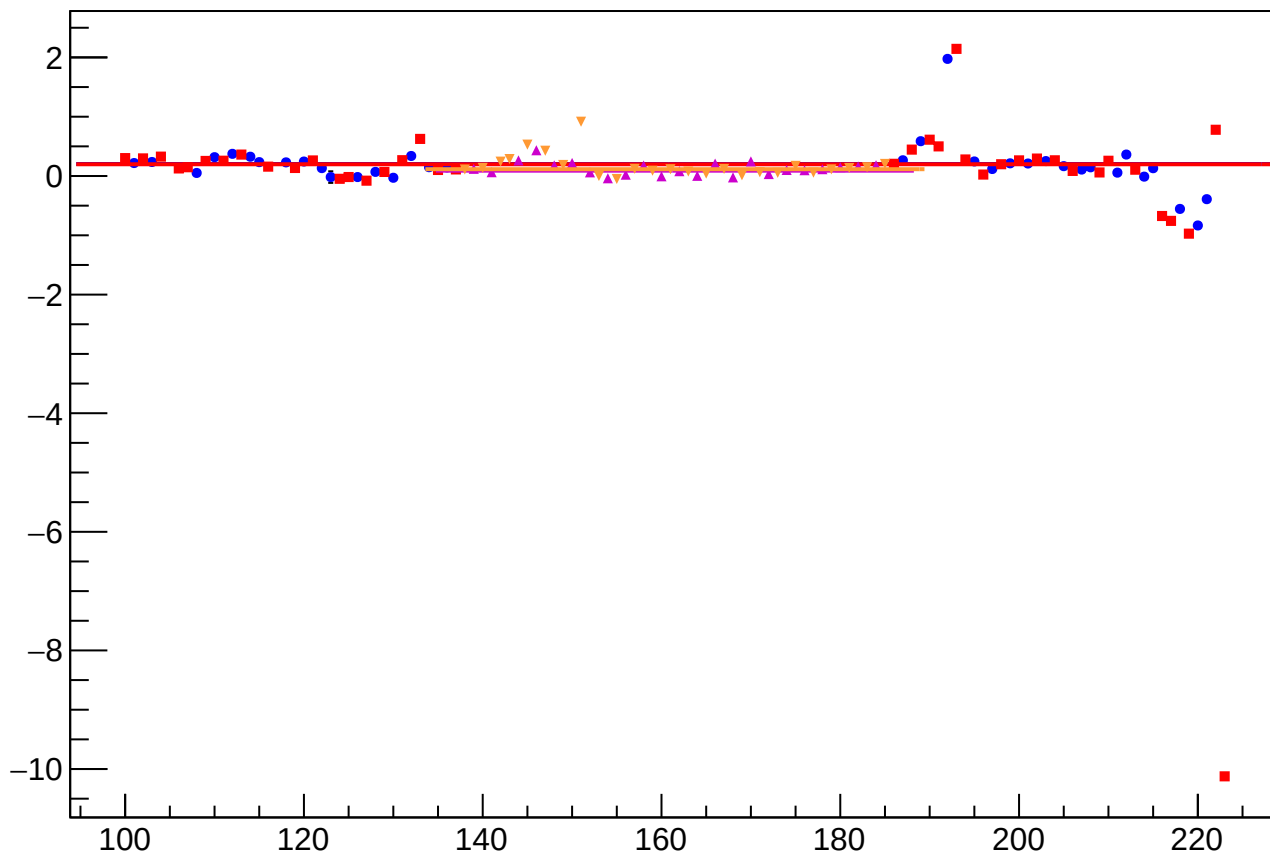
Right: -0.994 ± 0.036 $\chi^2/\text{NDF}: 15915.1/73$

In: -1.072 ± 0.029 $\chi^2/\text{NDF}: 11665.4/57$

Out: -1.237 ± 0.030 $\chi^2/\text{NDF}: 18895.9/63$

All: -1.153 ± 0.021 $\chi^2/\text{NDF}: 30577.1/121$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.202 $\pm$ 0.002 χ^2 /NDF: 16253.8/34

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.198 $\pm$ 0.002 χ^2 /NDF: 37639.4/38

Left In: 0.090 $\pm$ 0.002 χ^2 /NDF:3676.5/22

Left: 0.102 $\pm$ 0.001 χ^2 /NDF: 8228.2/47

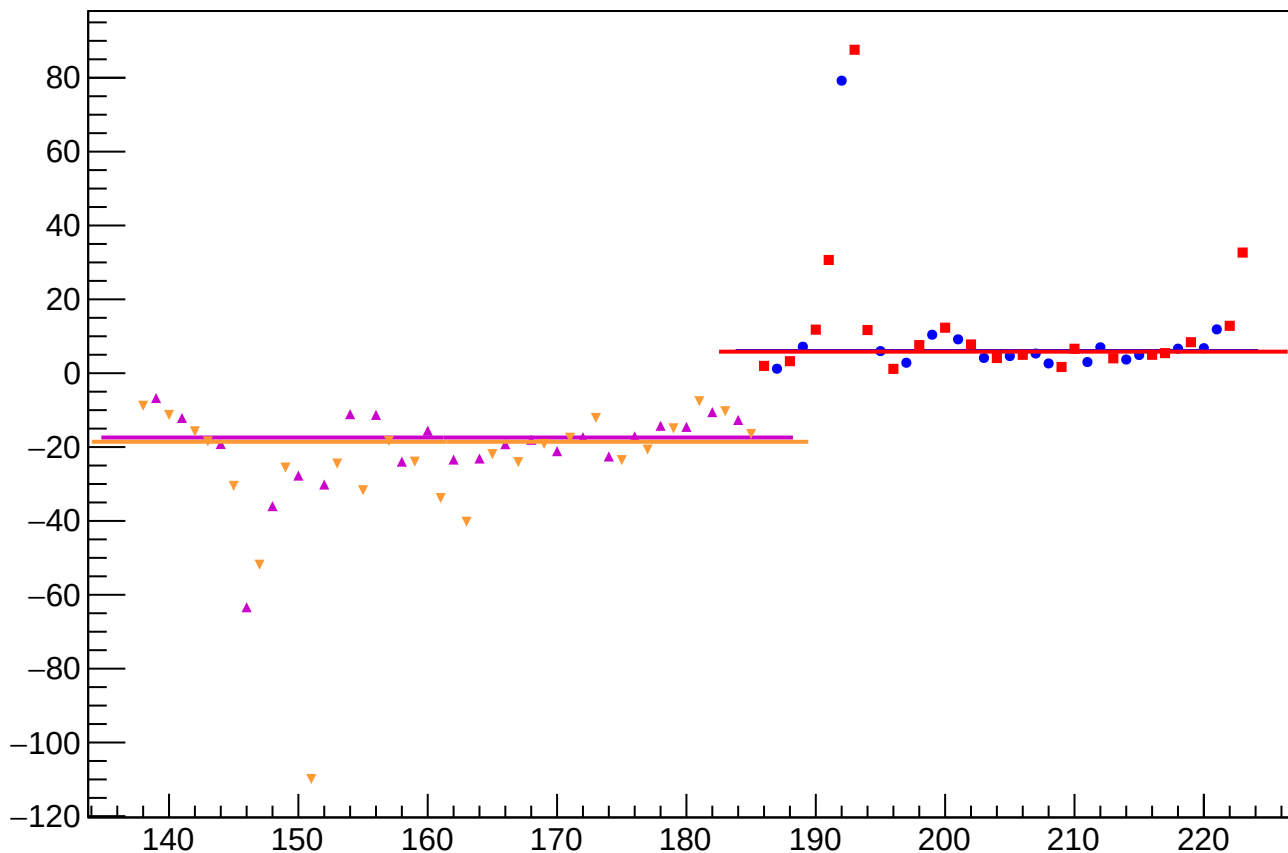
Right: 0.200 $\pm$ 0.002 χ^2 /NDF: 53894.9/73

In: 0.124 $\pm$ 0.001 χ^2 /NDF:21544.2/57

Out: 0.143 $\pm$ 0.001 χ^2 /NDF:42950.4/63

All: 0.133 $\pm$ 0.001 χ^2 /NDF: 64598.1/121

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.013 ± 0.045 $\chi^2/\text{NDF}: 26487.1/17$

Left Out: -18.566 ± 0.040 $\chi^2/\text{NDF}: 86389.6/24$

Right Out: 5.838 ± 0.045 $\chi^2/\text{NDF}: 29172.6/19$

Left In: -17.414 ± 0.039 $\chi^2/\text{NDF}: 43504.1/22$

Left: -17.979 ± 0.028 $\chi^2/\text{NDF}: 130314.7/47$

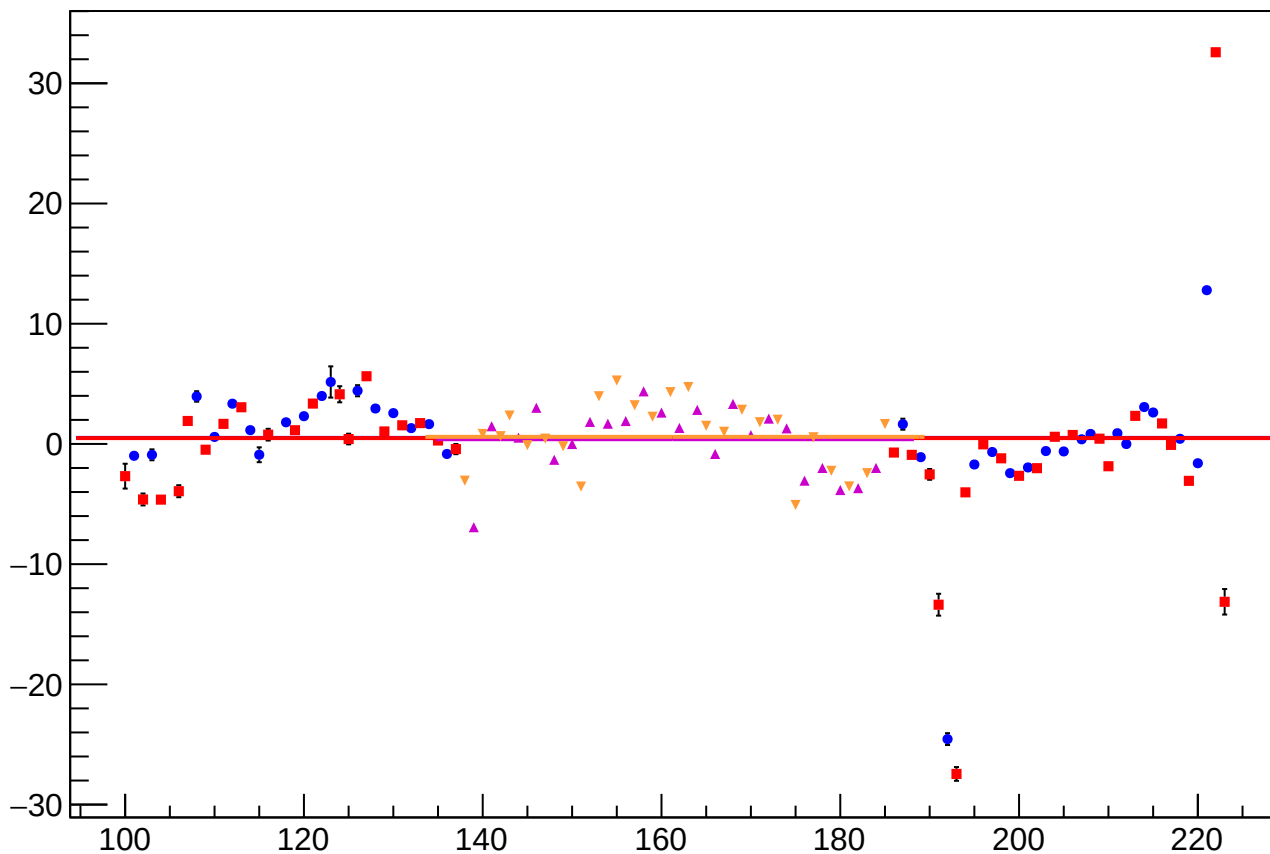
Right: 5.925 ± 0.032 $\chi^2/\text{NDF}: 55667.2/37$

In: -7.380 ± 0.030 $\chi^2/\text{NDF}: 222167.0/40$

Out: -7.755 ± 0.030 $\chi^2/\text{NDF}: 279657.5/44$

All: -7.567 ± 0.021 $\chi^2/\text{NDF}: 501903.6/85$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.502 ± 0.046 $\chi^2/\text{NDF}: 5080.2/34$

Left Out: 0.591 ± 0.033 $\chi^2/\text{NDF}: 6796.5/24$

Right Out: 0.486 ± 0.044 $\chi^2/\text{NDF}: 11757.1/38$

Left In: 0.394 ± 0.032 $\chi^2/\text{NDF}: 6059.8/22$

Left: 0.488 ± 0.023 $\chi^2/\text{NDF}: 12874.6/47$

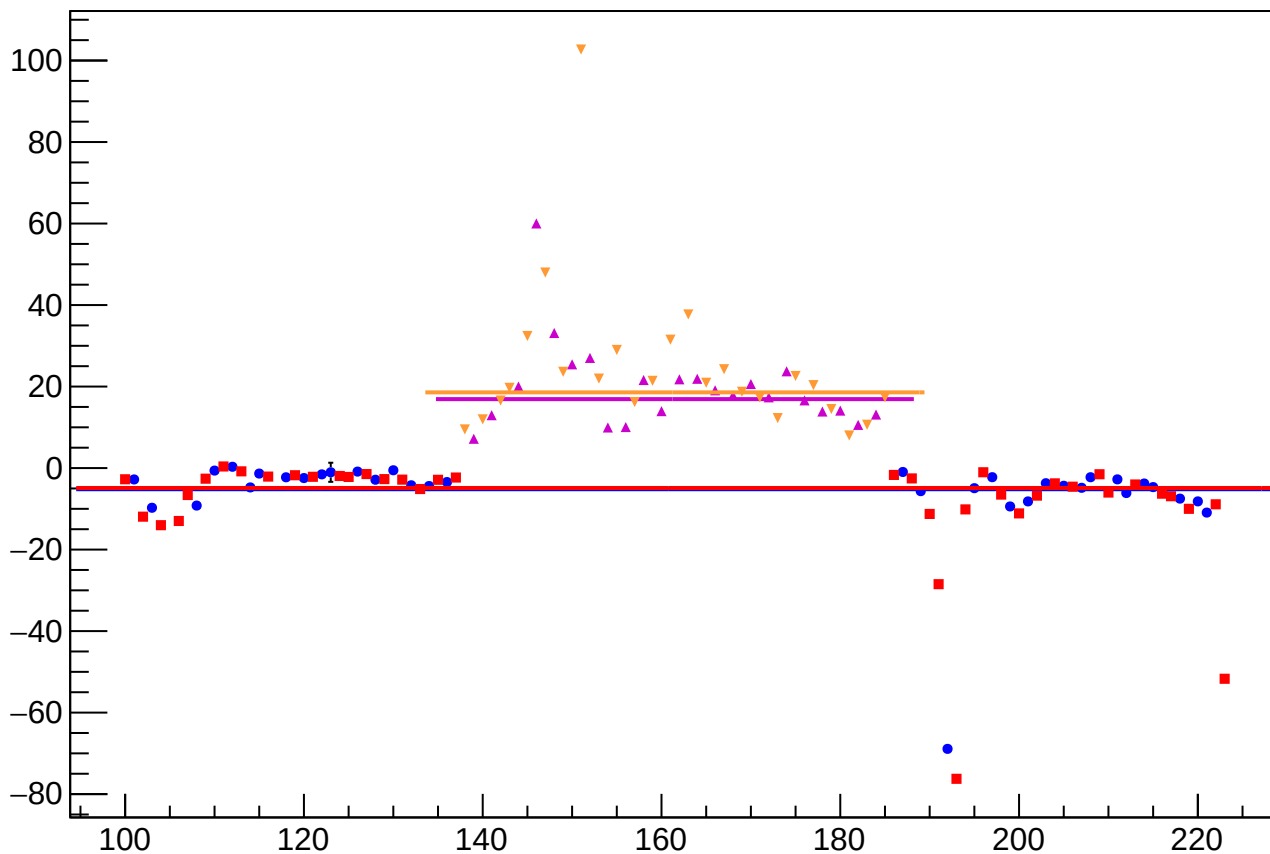
Right: 0.494 ± 0.032 $\chi^2/\text{NDF}: 16837.4/73$

In: 0.429 ± 0.026 $\chi^2/\text{NDF}: 11143.7/57$

Out: 0.553 ± 0.027 $\chi^2/\text{NDF}: 18557.2/63$

All: 0.490 ± 0.019 $\chi^2/\text{NDF}: 29712.0/121$

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.185 ± 0.041 $\chi^2/\text{NDF}: 27396.6/34$

Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$

Right Out: -4.884 ± 0.039 $\chi^2/\text{NDF}: 33386.0/38$

Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$

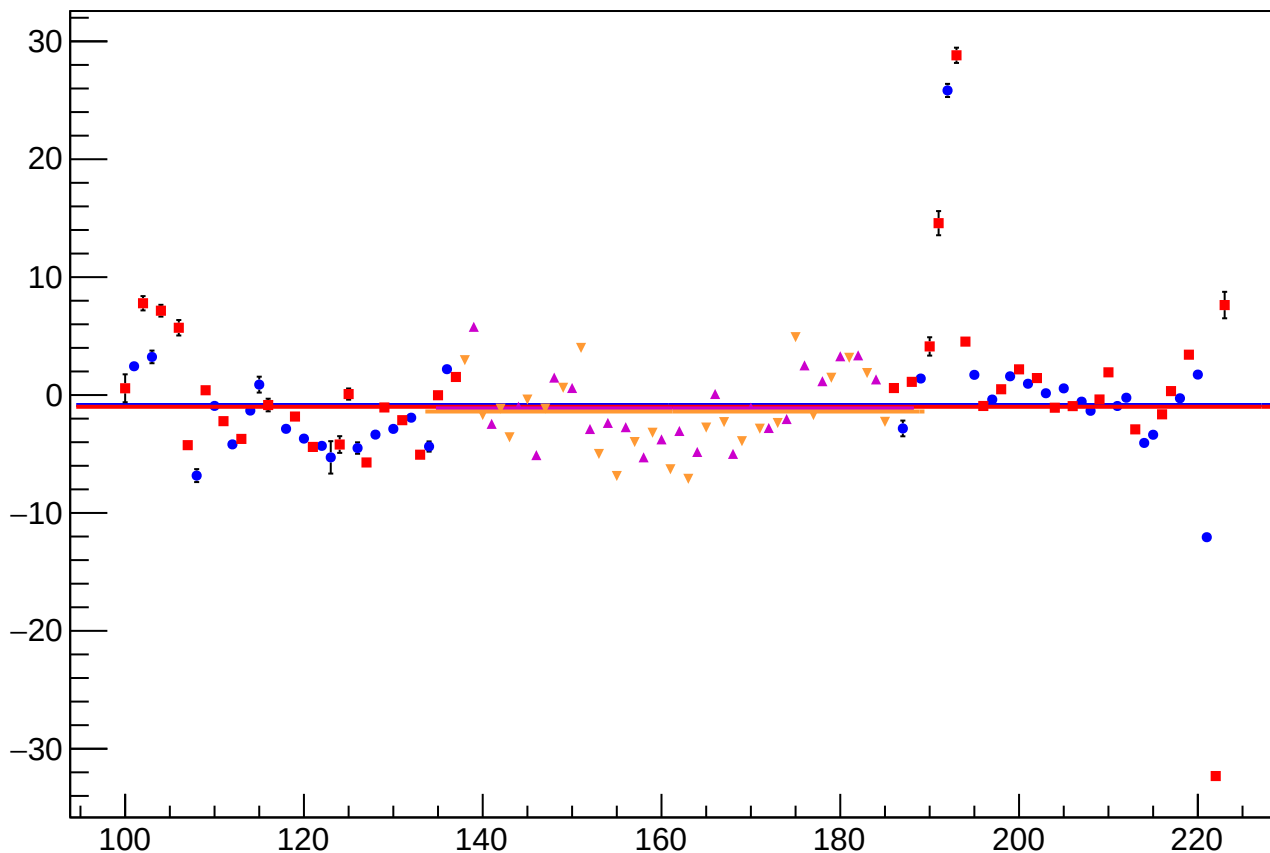
Right: -5.026 ± 0.028 $\chi^2/\text{NDF}: 60810.8/73$

In: 6.522 ± 0.028 $\chi^2/\text{NDF}: 219371.5/57$

Out: 6.507 ± 0.028 $\chi^2/\text{NDF}: 284027.6/63$

All: 6.514 ± 0.020 $\chi^2/\text{NDF}: 503399.3/121$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.845 ± 0.052 $\chi^2/\text{NDF}: 4893.0/34$

Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$

Right Out: -0.995 ± 0.051 $\chi^2/\text{NDF}: 10804.1/38$

Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$

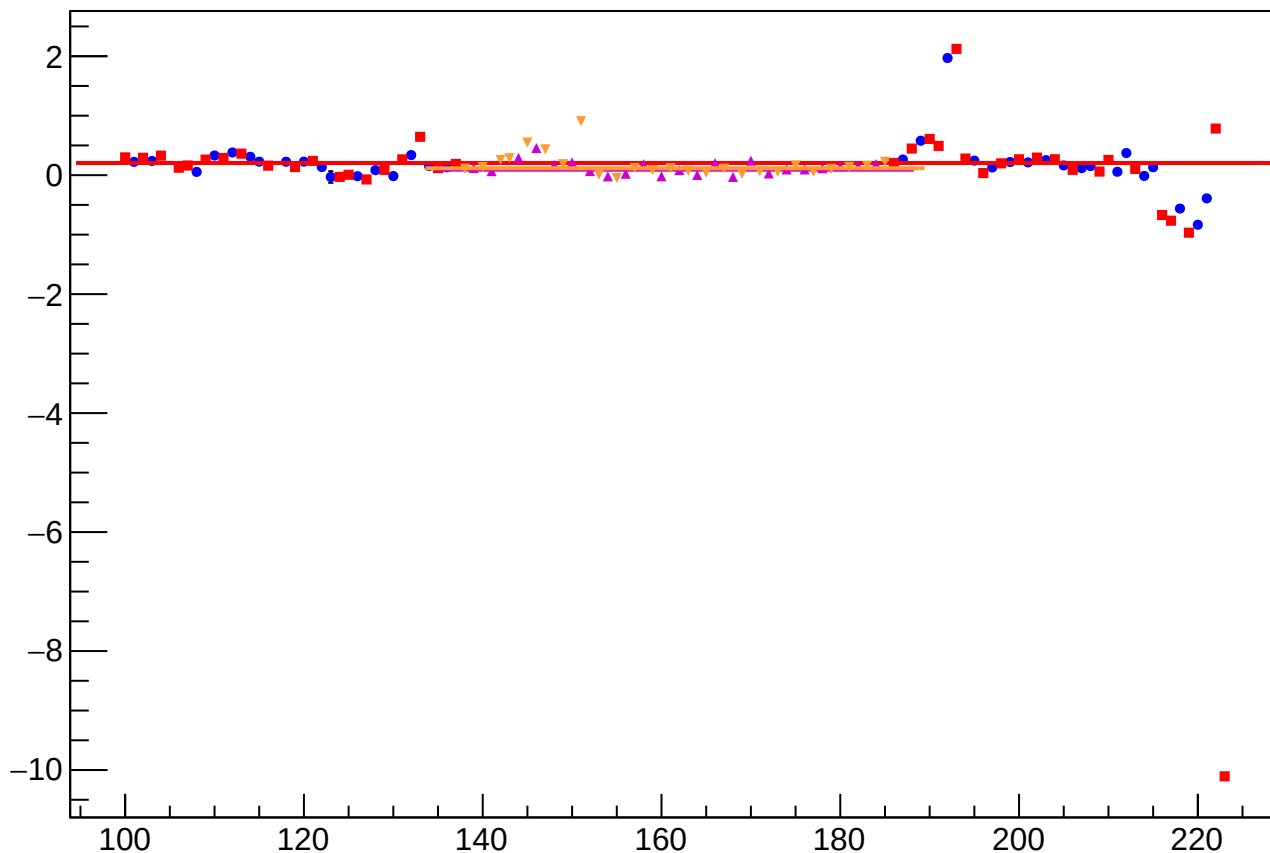
Right: -0.923 ± 0.036 $\chi^2/\text{NDF}: 15701.3/73$

In: -1.045 ± 0.029 $\chi^2/\text{NDF}: 11511.7/57$

Out: -1.257 ± 0.030 $\chi^2/\text{NDF}: 18496.5/63$

All: -1.149 ± 0.021 $\chi^2/\text{NDF}: 30034.2/121$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.205+/-0.002 χ^2/NDF : 15947.4/34

Left Out: 0.116+/-0.002 χ^2/NDF : 4463.0/24

Right Out: 0.205+/-0.002 χ^2/NDF : 37012.9/38

Left In: 0.092+/-0.002 χ^2/NDF : 3631.4/22

Left: 0.103+/-0.001 χ^2/NDF : 8207.3/47

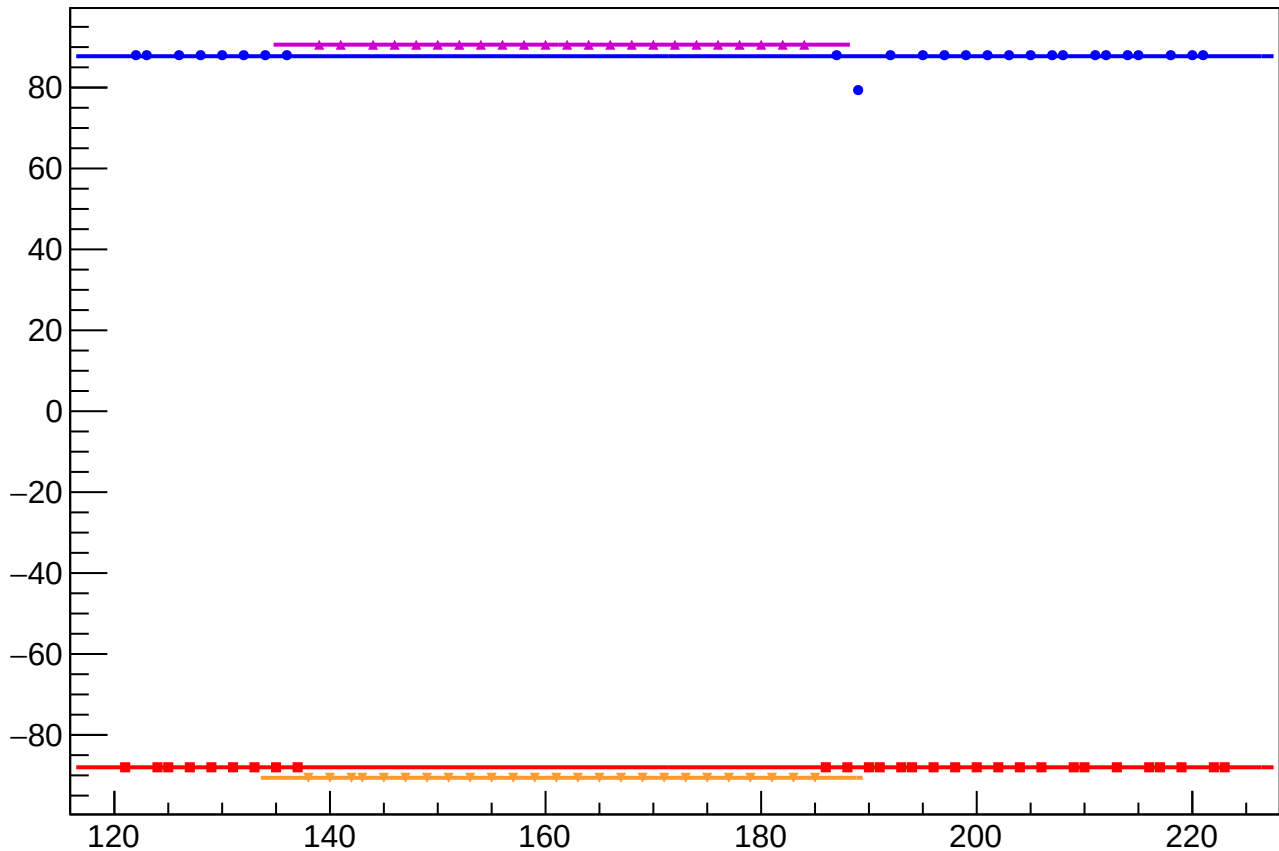
Right: 0.205+/-0.002 χ^2/NDF : 52960.3/73

In: 0.126+/-0.001 χ^2/NDF : 21178.6/57

Out: 0.146+/-0.001 χ^2/NDF : 42439.4/63

All: 0.135+/-0.001 χ^2/NDF : 63728.6/121

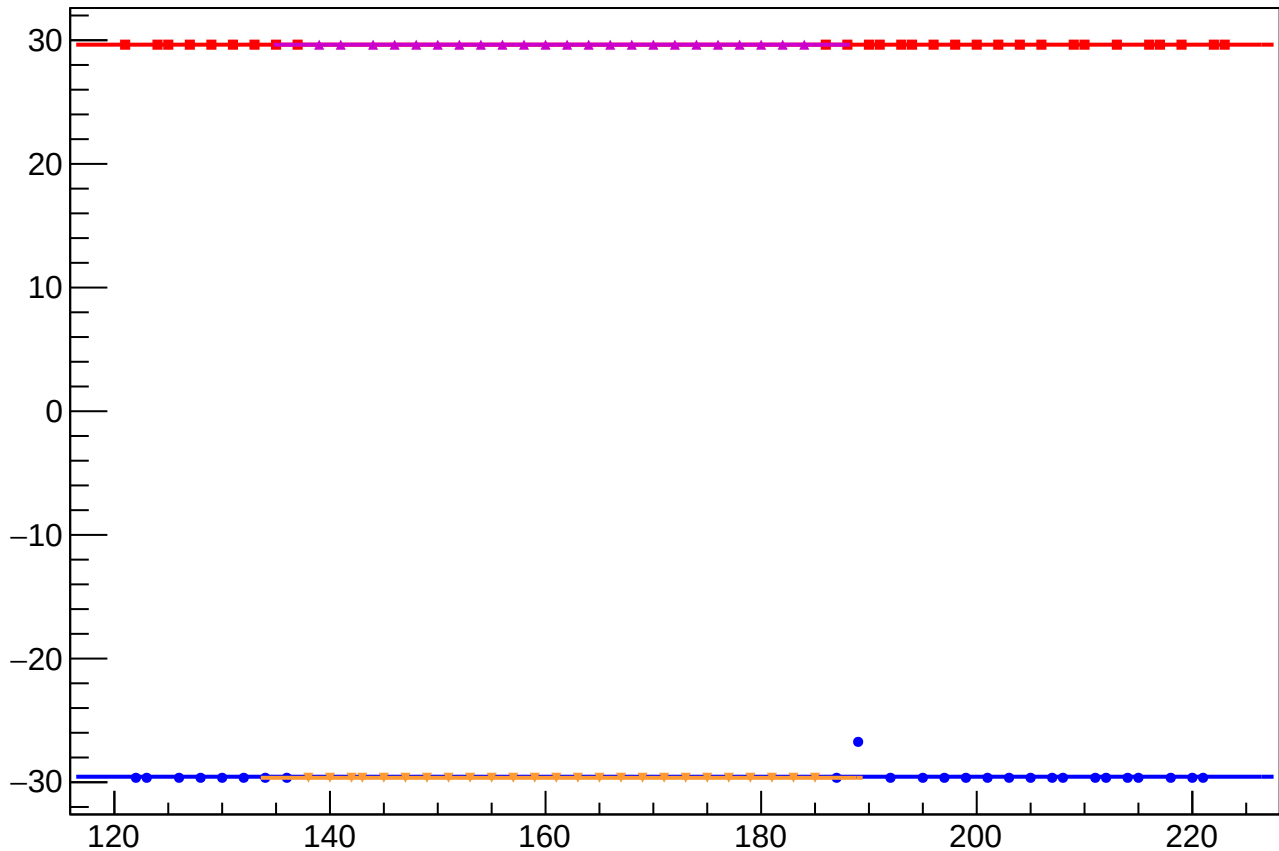
VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.743 ± 0.000 $\chi^2/\text{NDF}: 368258891759479443677208448598016.0/25$
 Left Out: -90.599 ± 0.000 $\chi^2/\text{NDF}: 6053403.0/24$
 Right Out: -88.001 ± 0.000 $\chi^2/\text{NDF}: 1696770.4/28$
 Left In: 90.599 ± 0.000 $\chi^2/\text{NDF}: 5932436.0/22$

Left: -2.410 ± 0.000 $\chi^2/\text{NDF}: 30521213250005045$
 Right: -0.412 ± 0.000 $\chi^2/\text{NDF}: 2641842274437699$
 In: 89.214 ± 0.000 $\chi^2/\text{NDF}: 108491560390252051$
 Out: -89.370 ± 0.000 $\chi^2/\text{NDF}: 6103790657473696$
 All: -1.453 ± 0.000 $\chi^2/\text{NDF}: 5694675743508$

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.554+/-0.000

χ^2/NDF : 417789920075088245460483488874496.0/25

Left Out: -29.641+/-0.000

χ^2/NDF : 654199.2/24

Right Out: 29.641+/-0.000

χ^2/NDF : 1802843.8/28

Left In: 29.641+/-0.000

χ^2/NDF : 511825.6/22

Left: -0.789+/-0.000 χ^2/NDF : 32668496095314519

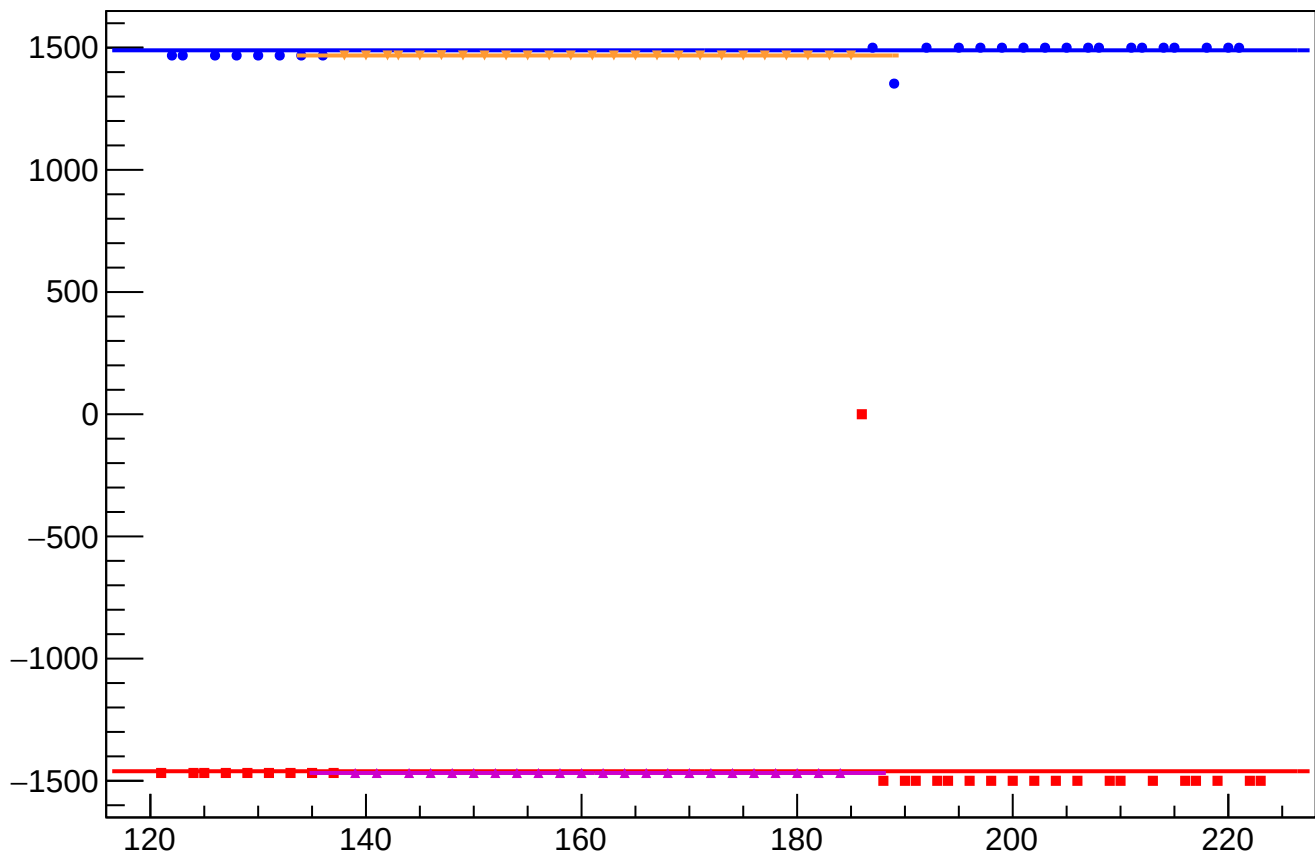
Right: 0.139+/-0.000 χ^2/NDF : 29971715690507204

In: 0.936+/-0.000 χ^2/NDF : 3077622838335633204

Out: -1.586+/-0.000 χ^2/NDF : 31765803532202060

All: -0.344+/-0.000 χ^2/NDF : 6265553605045

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1489.214+/-0.000

χ^2/NDF : 1252174697287445862370957372155756544.0/25

Left Out: 1468.048+/-0.000

χ^2/NDF : 127960980922965975039069502046208.0/24

Right Out: -1460.869+/-0.000

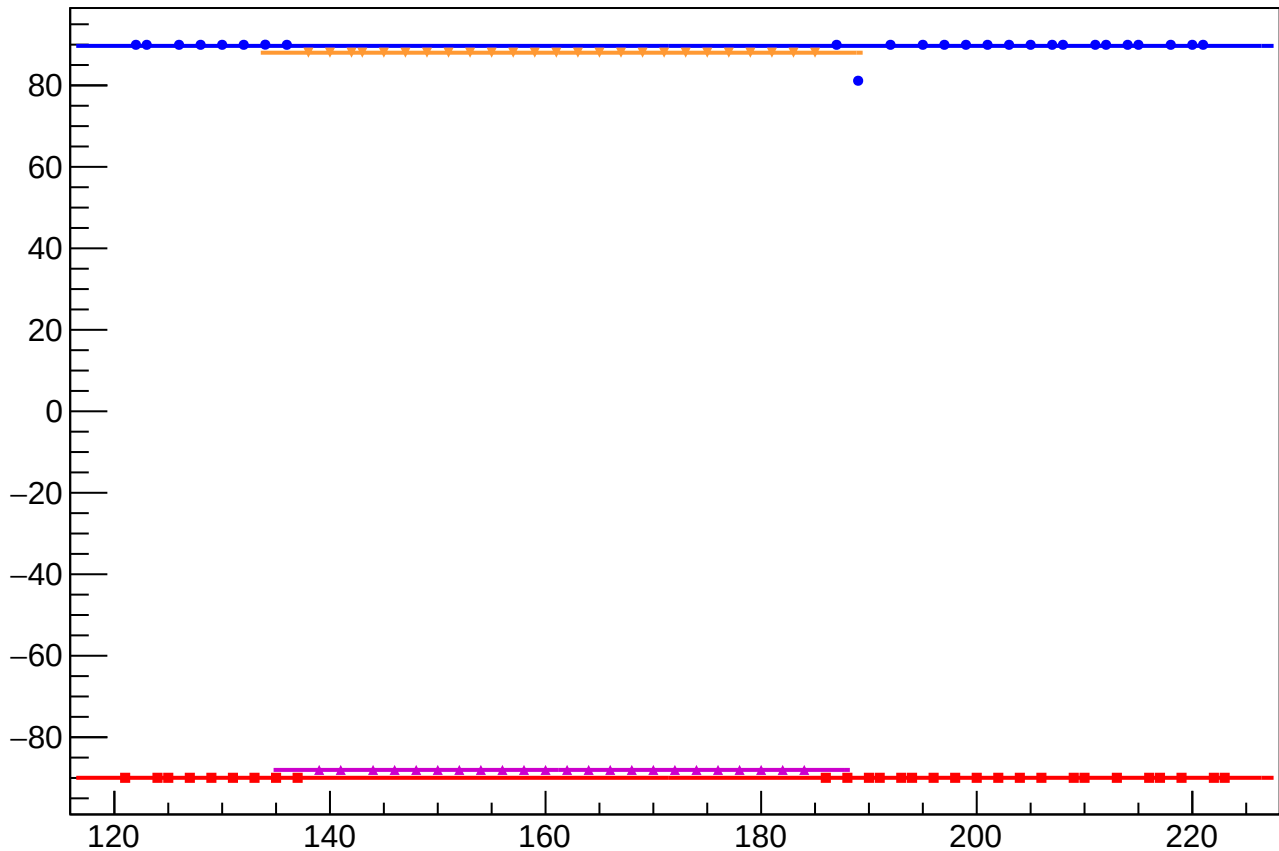
χ^2/NDF : 83196308743894693481379698216963932160.0/28

Left In: -1467.994+/-0.000

χ^2/NDF : 145848702340275035310993178624.0/22

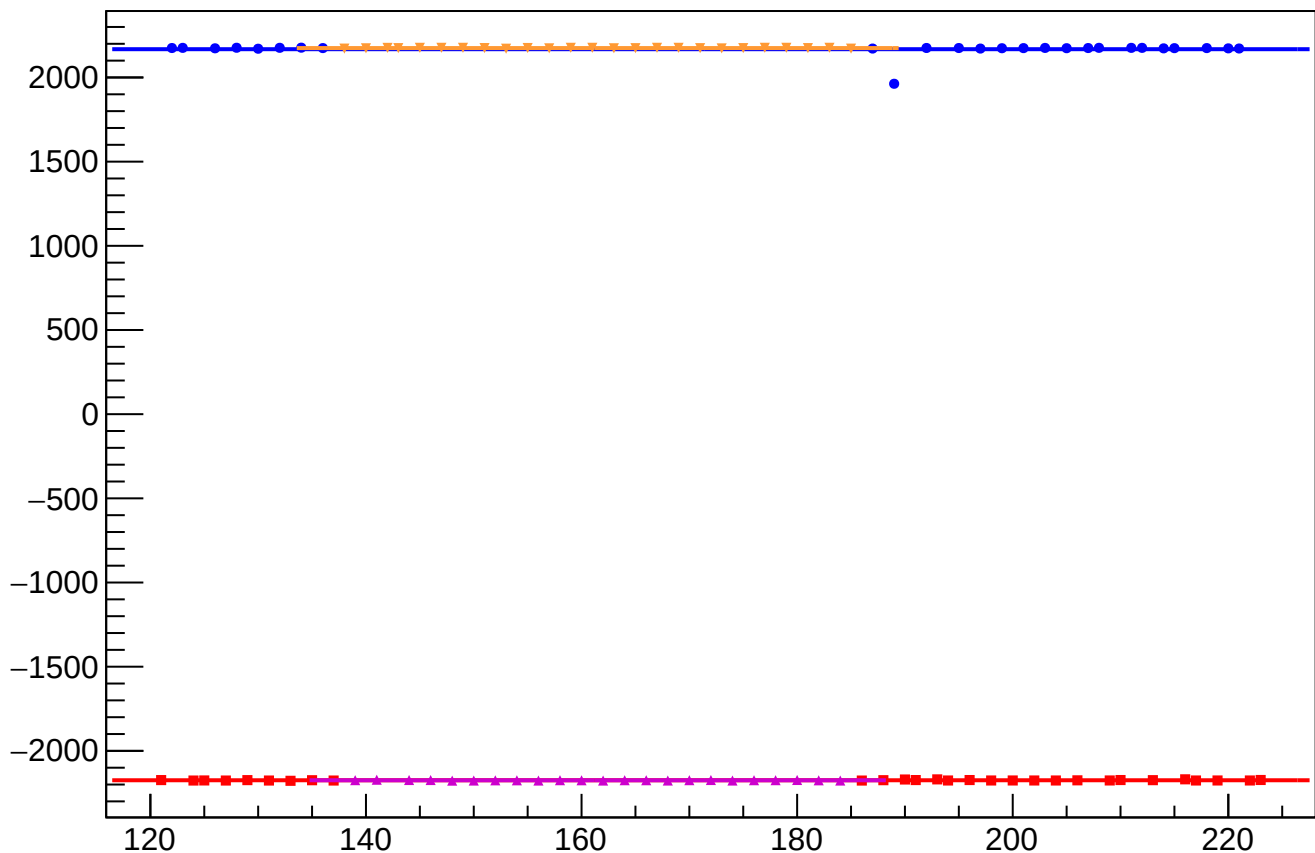
All: 24.880+/-0.000 χ^2/NDF : 1554256358564.0/100

Phi_FG_mean vs Slug, Sign Corrected



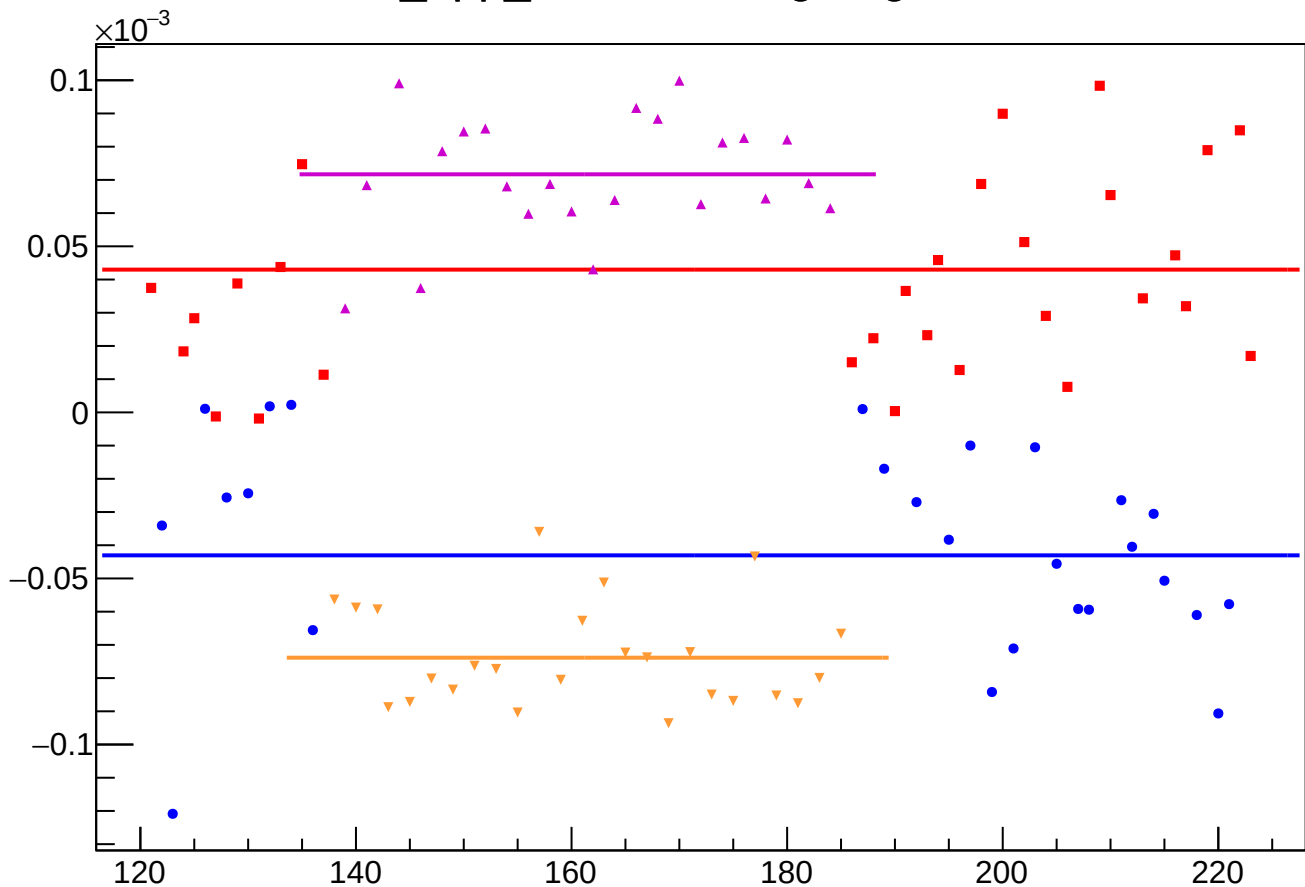
Right In: 89.696+/-0.000	χ^2/NDF : 3848725509297740158888332444565504.0/25	Left: 2.342+/-0.000	χ^2/NDF : 288085769312401978
Left Out: 88.021+/-0.000	χ^2/NDF : 5326388.8/24	Right: -0.421+/-0.000	χ^2/NDF : 2760760162942327
Right Out: -89.959+/-0.000	χ^2/NDF : 5415044.2/28	In: -1.841+/-0.000	χ^2/NDF : 277402392451473032
Left In: -88.021+/-0.000	χ^2/NDF : 6084099.2/22	Out: 3.792+/-0.000	χ^2/NDF : 286328946839006737
		All: 1.019+/-0.000	χ^2/NDF : 56429779343348

HALLA_p_mean vs Slug, Sign Corrected



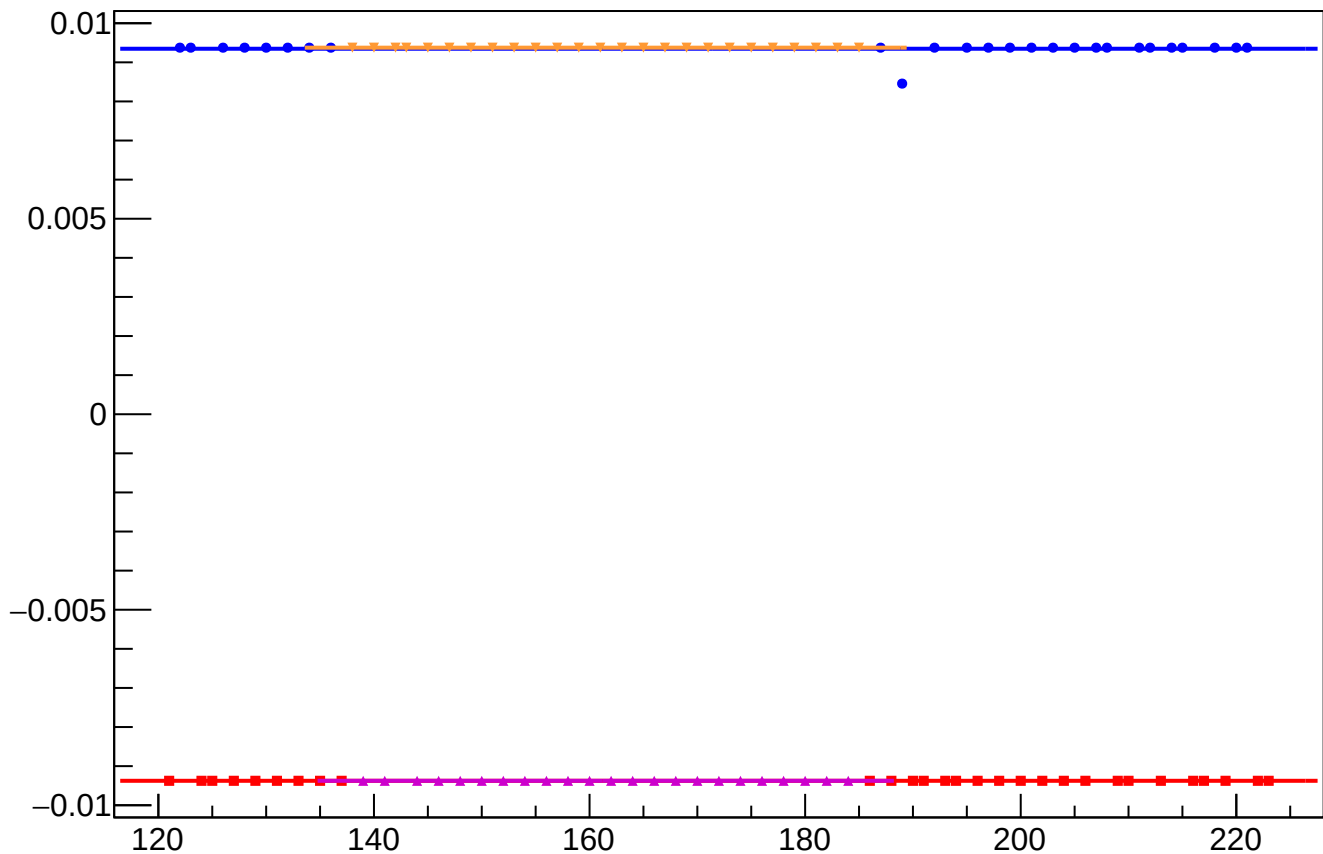
Right In: 2167.934+/-0.000 χ^2/NDF : 2219839644995694630990888960243269632.0/25
 Left Out: 2174.622+/-0.000 χ^2/NDF : 5110578135476093110874911595823104.0/24
 Right Out: -2174.572+/-0.000 χ^2/NDF : 7516147155092274367395566117191680.0/28
 Left In: -2174.539+/-0.000 χ^2/NDF : 3400742562425168967494665391570944.0/22
 All: 25.231+/-0.000 χ^2/NDF : 3372152570339

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000	χ^2/NDF : 1101987240659252536147968.0/25	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 : 88482207747114172
Right Out: 0.000+/-0.000	χ^2/NDF : 1416517465040388286840832.0/28	In: 0.000+/-0.000	χ^2/NDF : 1322281990943697498
Left In: 0.000+/-0.000	χ^2/NDF : 562166279020739416817664.0/22	Out: -0.000+/-0.000	χ^2/NDF : 14207396421753501
		All: -0.000+/-0.000	χ^2/NDF : 2956842127433

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41794920864238976500760576.0/25

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/28

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 : 2998314284904432

In: -0.000+/-0.000

χ^2/NDF : 307879622742200884

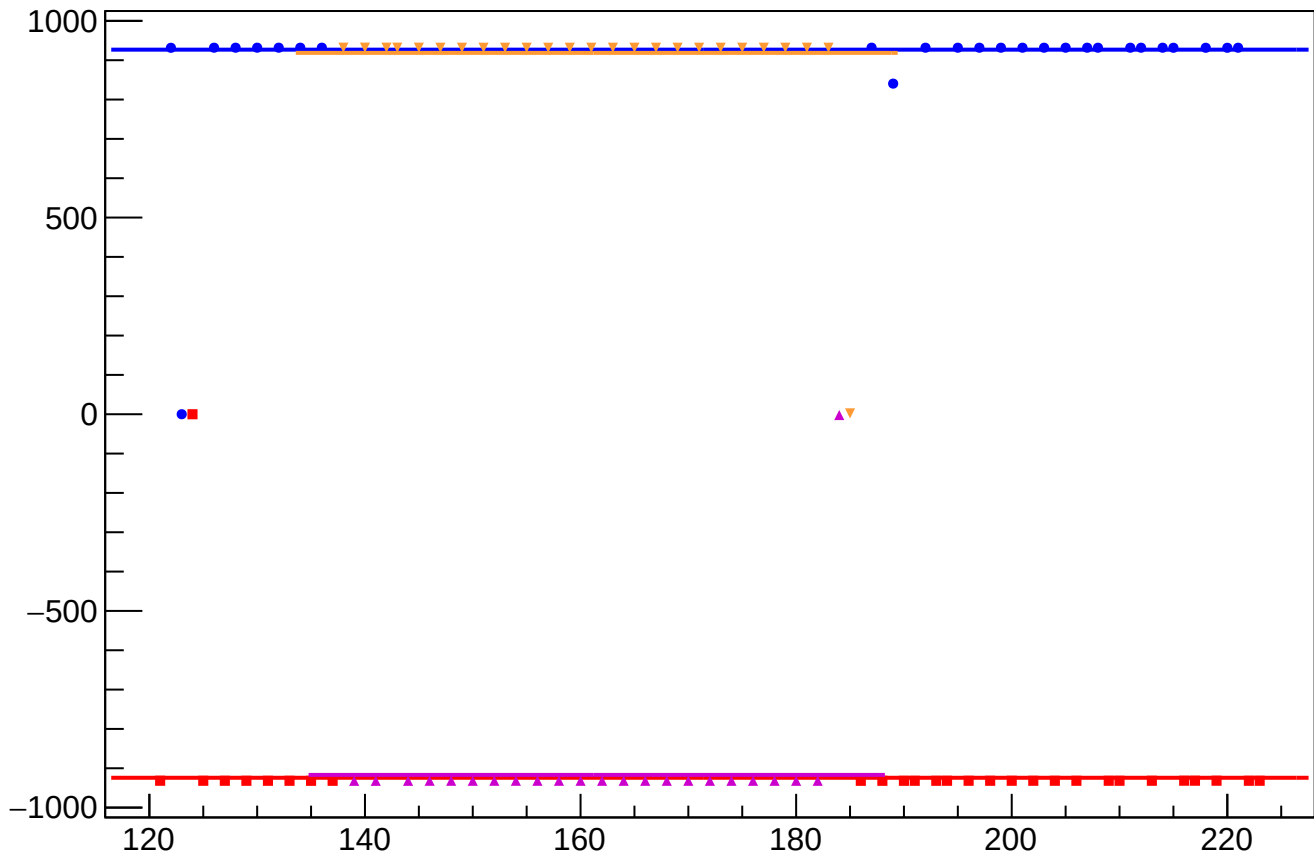
Out: 0.001+/-0.000

χ^2/NDF : 317779147131824958

All: 0.000+/-0.000

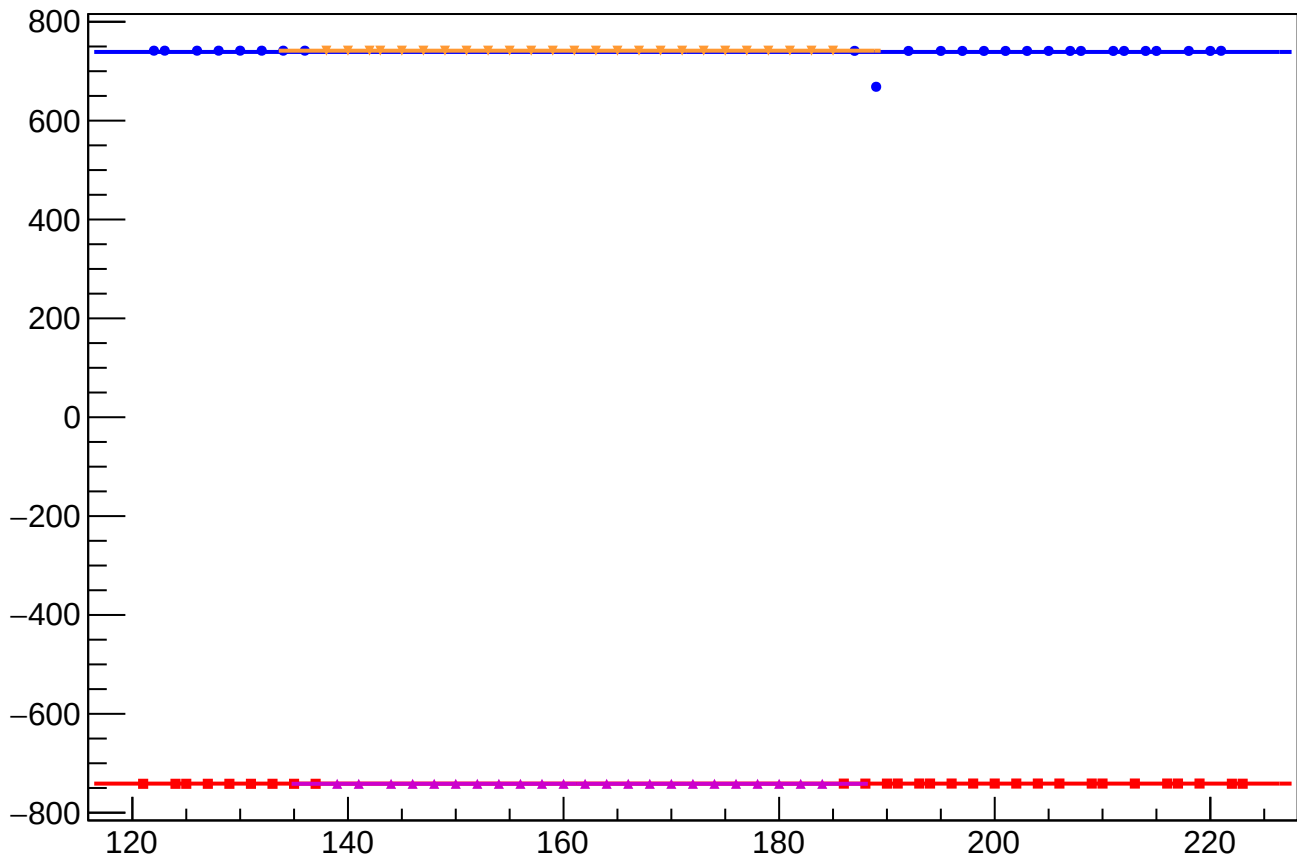
χ^2/NDF : 62679424397425

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



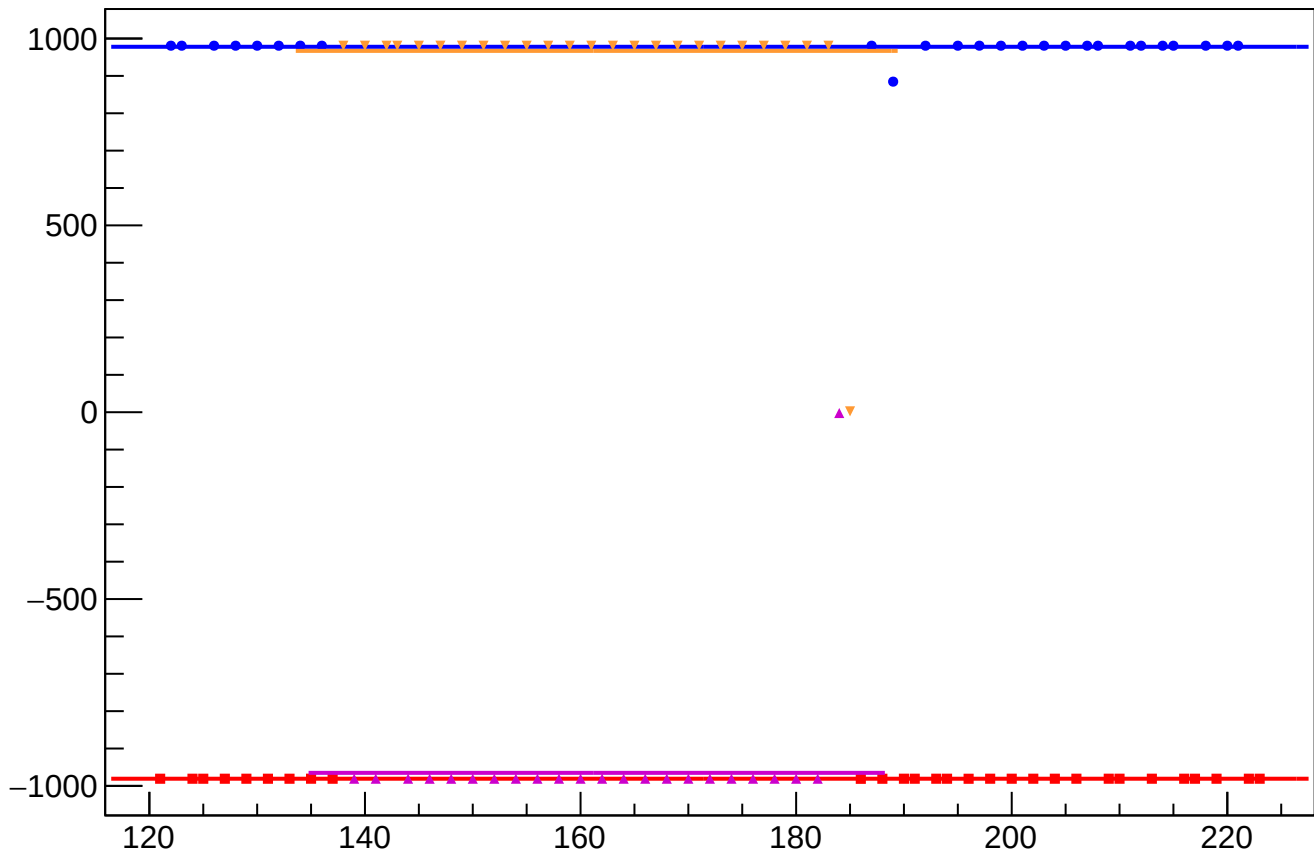
Right In: 926.842+/-0.000	χ^2/NDF : 3856062543284689359048090825621766144.0/25	Left: 25.295+/-0.000	χ^2/NDF : 31796385721824018
Left Out: 918.645+/-0.000	χ^2/NDF : 23003498704056084939752432521336324096.0/24	Right: -1.640+/-0.000	χ^2/NDF : 2946171741856742
Right Out: -924.169+/-0.000	χ^2/NDF : 12054765973202219400357515177670737920.0/28	In: -22.816+/-0.000	χ^2/NDF : 30138325421493863
Left In: -916.890+/-0.000	χ^2/NDF : 2466789491747623125028694438888133632.0/22	Out: 46.535+/-0.000	χ^2/NDF : 31046851913964536
	All: 12.394+/-0.000		χ^2/NDF : 6127103384352

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 738.971+/-0.000 χ^2/NDF : 261148903853801068794384966947438592.0/25
 Left Out: 741.513+/-0.000 χ^2/NDF : 244782737401533731539808944128.0/24
 Right Out: -741.156+/-0.000 χ^2/NDF : 68532090095617496082321504206848.0/28
 Left In: -741.512+/-0.000 χ^2/NDF : 215375309108434607405602439168.0/22
 All: 8.616+/-0.000 χ^2/NDF : 39193720827785

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.932+/-0.000

χ^2/NDF : 457558497984735009745600284668723200.0/25

Left: 26.619+/-0.000 χ^2/NDF : 35227684296675597

Right: -4.591+/-0.000 χ^2/NDF : 3281752067918930

Left Out: 966.936+/-0.000

χ^2/NDF : 25485578616543458629432284645183979520.0/24

In: -22.874+/-0.000 χ^2/NDF : 33433313395534375

Right Out: -980.815+/-0.000

χ^2/NDF : 3551083815000487102544491839488.0/28

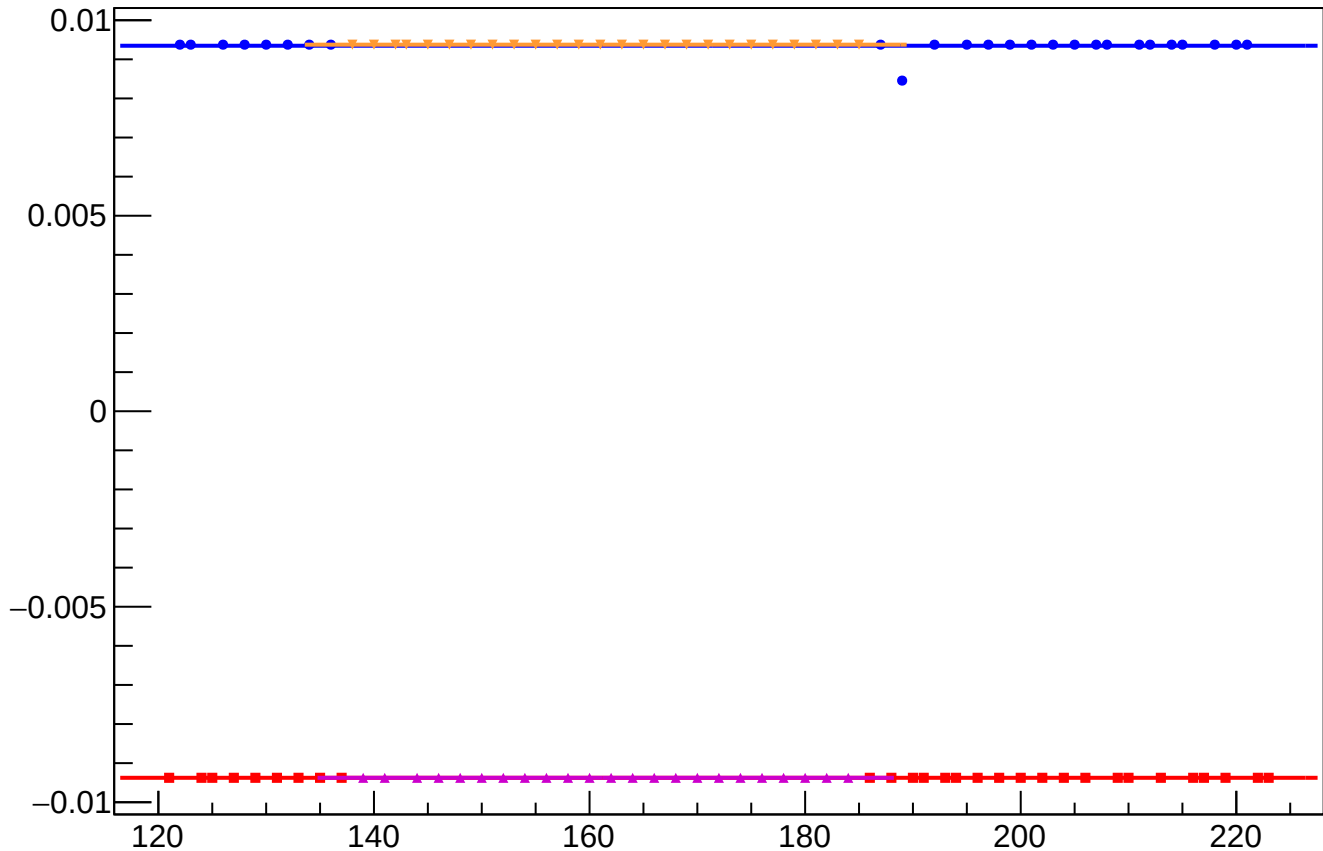
Out: 45.165+/-0.000 χ^2/NDF : 34546614005763902

Left In: -965.102+/-0.000

χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 11.669+/-0.000 χ^2/NDF : 6806256548491

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41794920864238976500760576.0/25

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2998314284904432

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.000+/-0.000

χ^2/NDF : 307879622742200884

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/28

Out: 0.001+/-0.000

χ^2/NDF : 317779147131824958

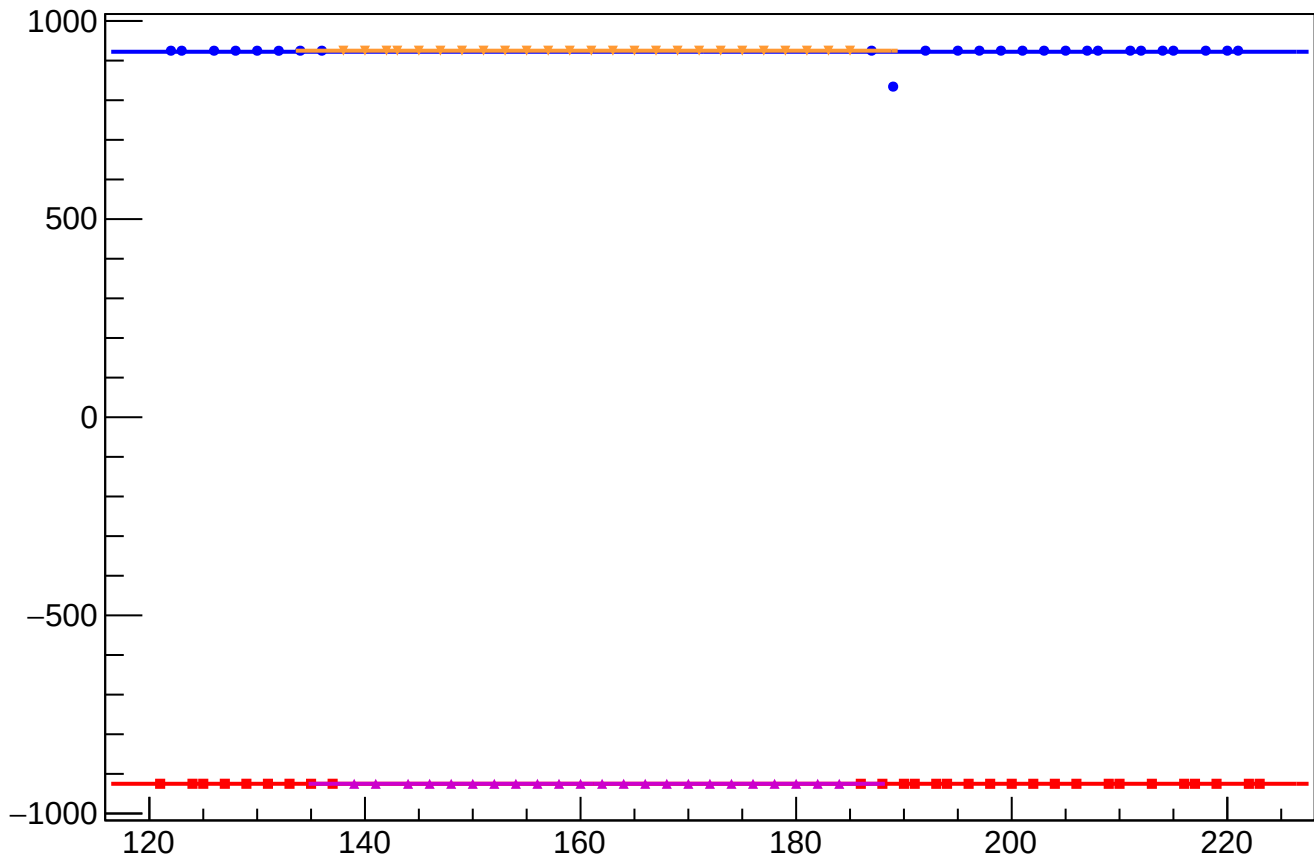
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: 0.000+/-0.000

χ^2/NDF : 62679424397425

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 922.285+/-0.000

χ^2/NDF : 406612005254480811470176495234711552.0/25

Left Out: 924.983+/-0.000

χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -925.001+/-0.000

χ^2/NDF : 976412468994802122394745962496.0/28

Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

Left: 24.610+/-0.000 χ^2/NDF : 31814082693920915

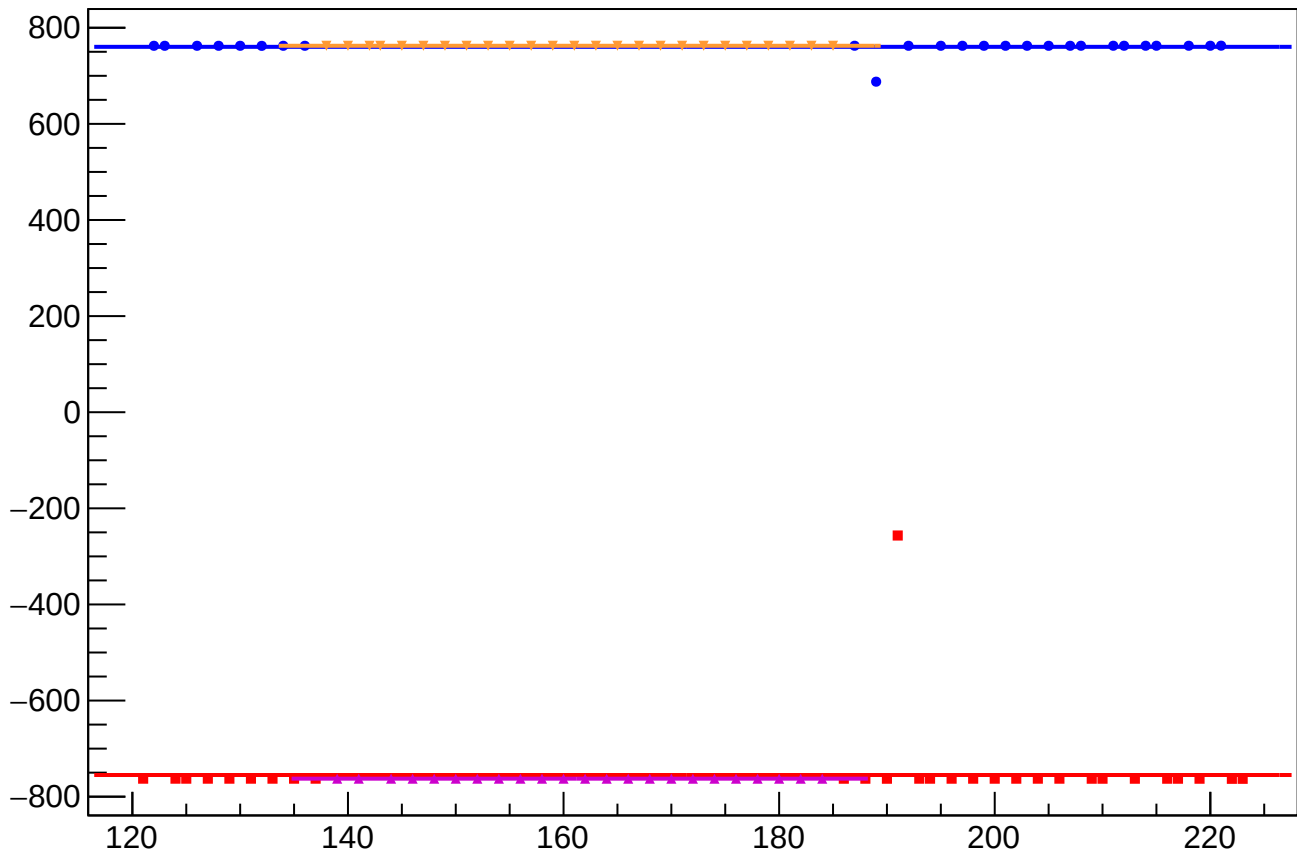
Right: -4.328+/-0.000 χ^2/NDF : 2918890266290141

In: -29.194+/-0.000 χ^2/NDF : 29971800548933580

Out: 49.480+/-0.000 χ^2/NDF : 30935620029266771

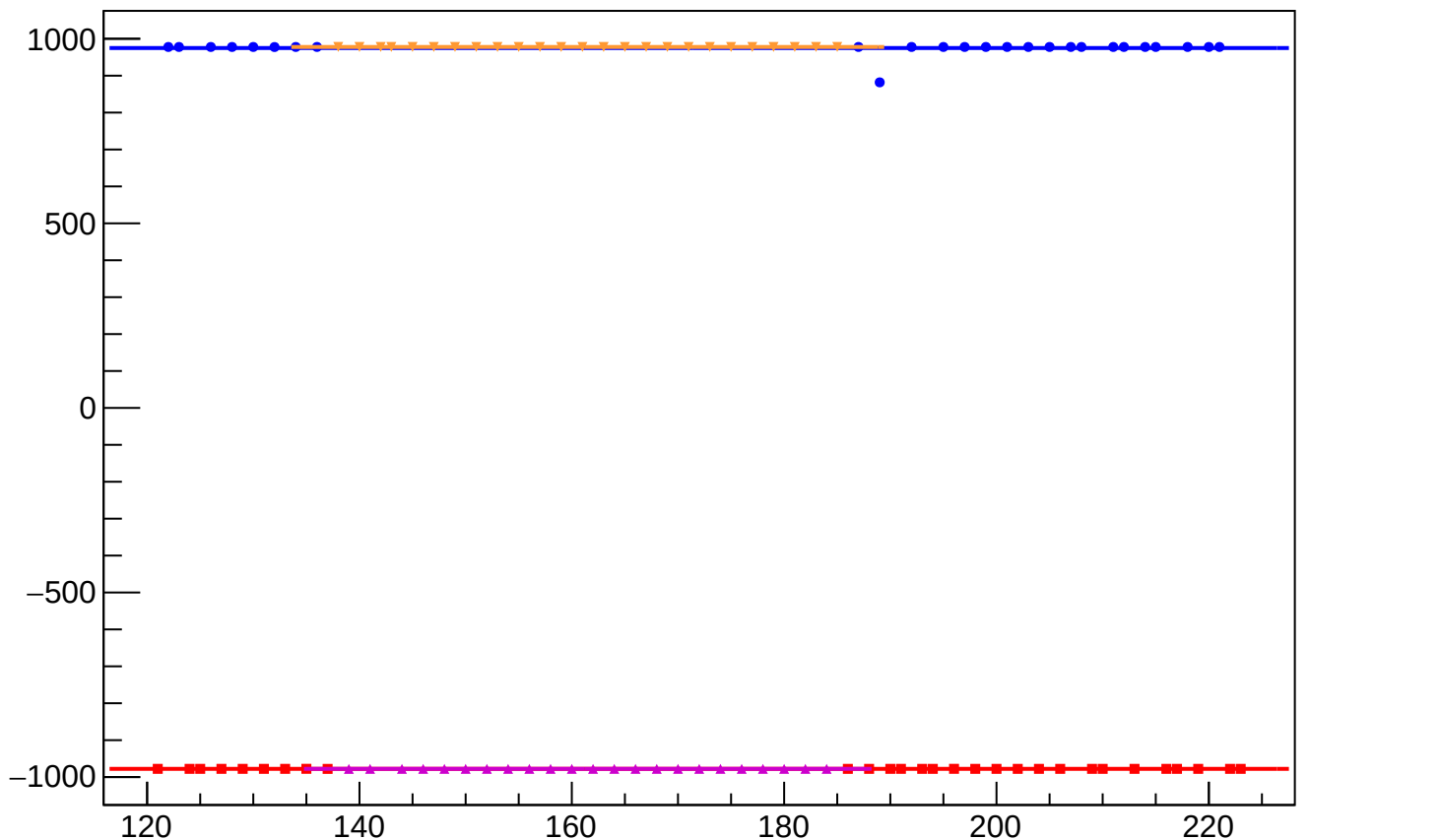
All: 10.749+/-0.000 χ^2/NDF : 6101791054991

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



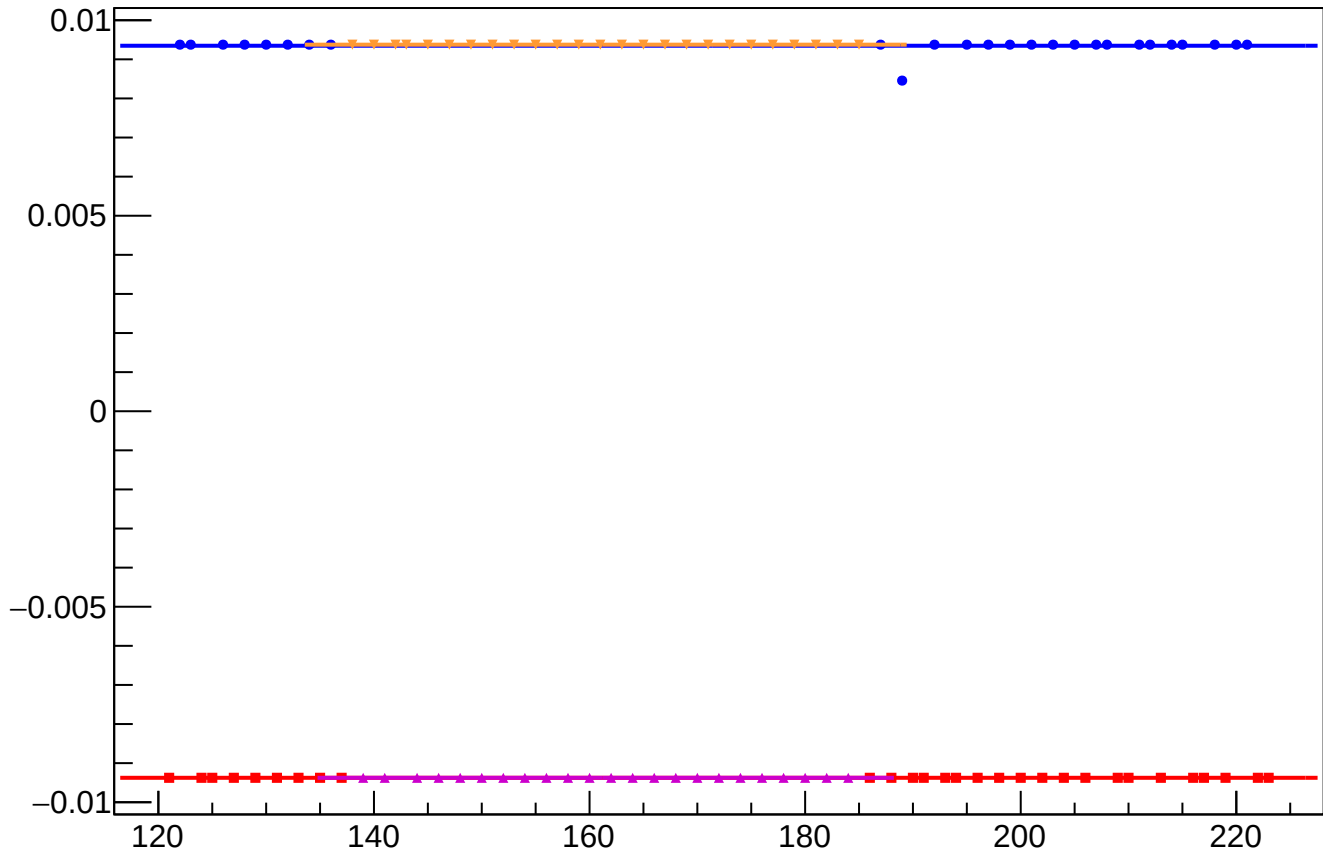
Right In: 760.311+/-0.000	χ^2/NDF : 276335745240541217446448140013010944.0/25	Left: 20.287+/-0.000	χ^2/NDF : 21619874128230354
Left Out: 762.518+/-0.000	χ^2/NDF : 731741258759628909874415403008.0/24	Right: 0.273+/-0.000	χ^2/NDF : 19703339921098196
Right Out: -754.894+/-0.000	χ^2/NDF : 6556329589248718045923159837593567232.0/28	In: -24.059+/-0.000	χ^2/NDF : 20368344368534790
Left In: -762.519+/-0.000	χ^2/NDF : 629058355419214408155297480704.0/22	Out: 44.405+/-0.000	χ^2/NDF : 20878336935310536
		All: 10.700+/-0.000	χ^2/NDF : 4133035377773

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.894+/-0.000	χ^2/NDF : 454449478182273816096111713578909696.0/25	Left: 26.015+/-0.000	χ^2/NDF : 35546397150663117
Left Out: 977.738+/-0.000	χ^2/NDF : 1154150409979077132991401558016.0/24	Right: -4.571+/-0.000	χ^2/NDF : 3261360145452841
Right Out: -977.758+/-0.000	χ^2/NDF : 1863653753527072000172732973056.0/28	In: -30.854+/-0.000	χ^2/NDF : 33488238182737336
Left In: -977.735+/-0.000	χ^2/NDF : 976503887937607318263199432704.0/22	Out: 52.302+/-0.000	χ^2/NDF : 34564997597831475
	All: 11.364+/-0.000		χ^2/NDF : 6817667265428

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41794920864238976500760576.0/25

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/28

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 : 2998314284904432

In: -0.000+/-0.000

χ^2/NDF : 307879622742200884

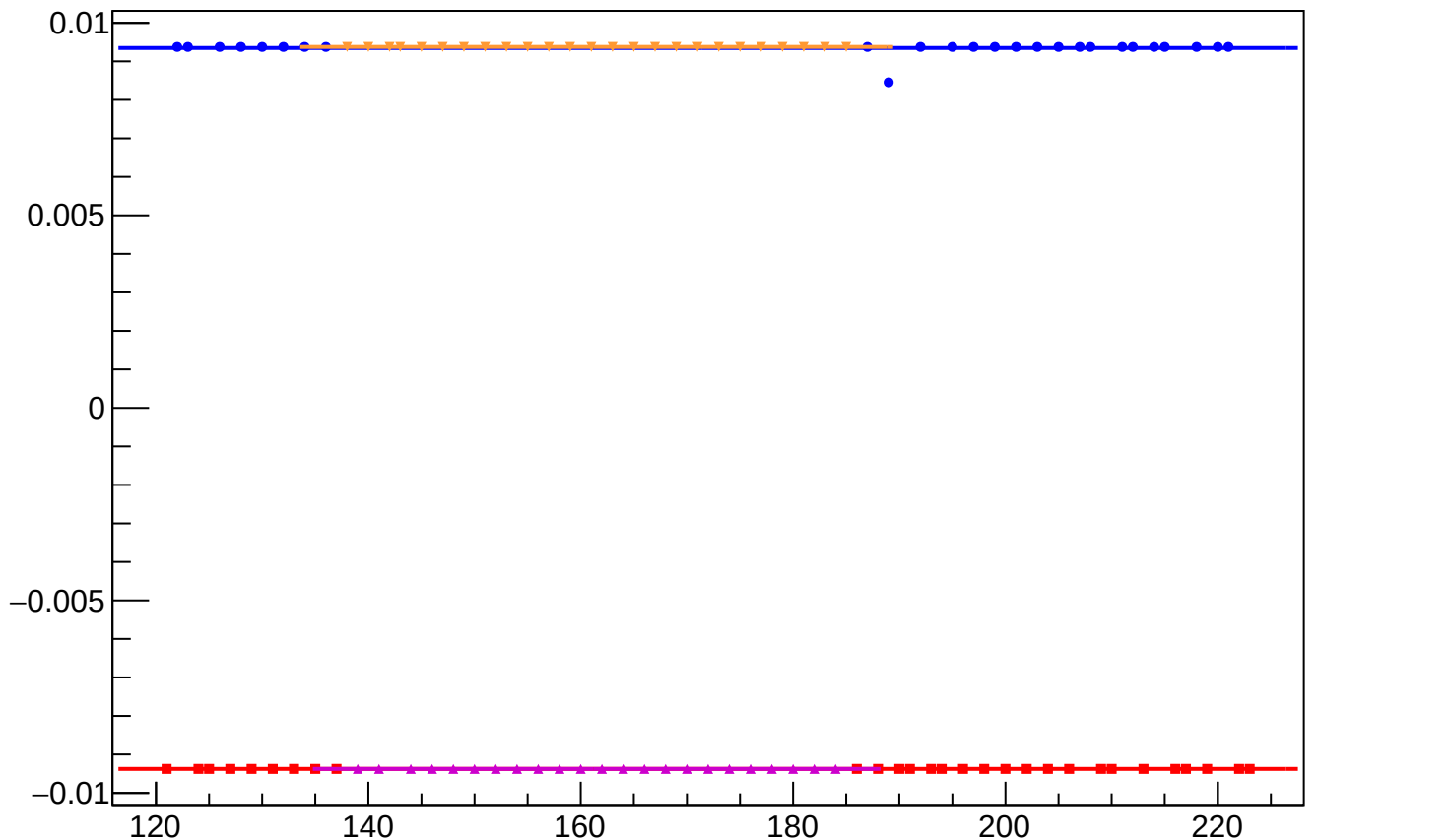
Out: 0.001+/-0.000

χ^2/NDF : 317779147131824958

All: 0.000+/-0.000

χ^2/NDF : 62679424397425

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41794920864238976500760576.0/25

Left: 0.000+/-0.000

χ^2/NDF : 326809514411447718

Right: -0.000+/-0.000

χ^2/NDF : 2998314284904432

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

In: -0.000+/-0.000

χ^2/NDF : 307879622742200884

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/28

Out: 0.001+/-0.000

χ^2/NDF : 317779147131824958

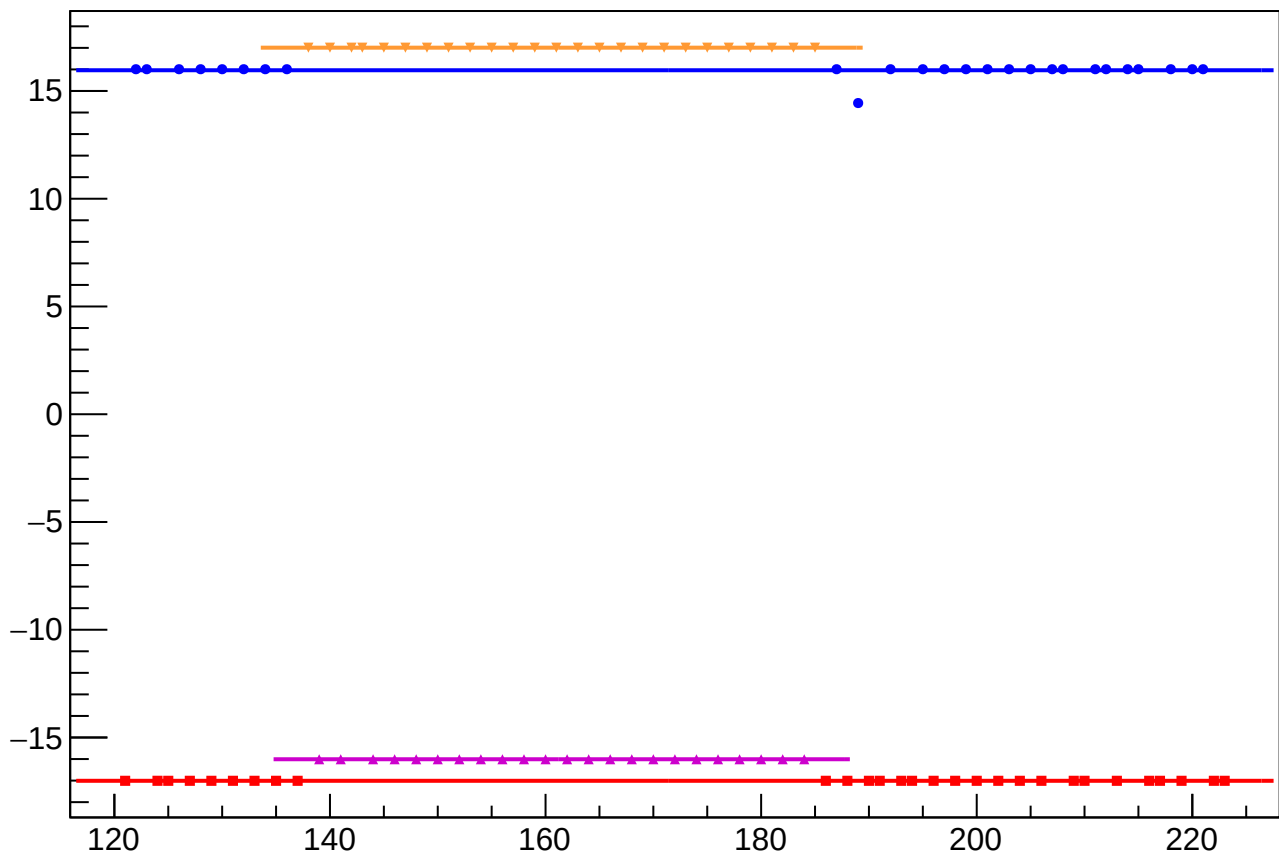
Left In: -0.009+/-0.000

χ^2/NDF : 0.1/22

All: 0.000+/-0.000

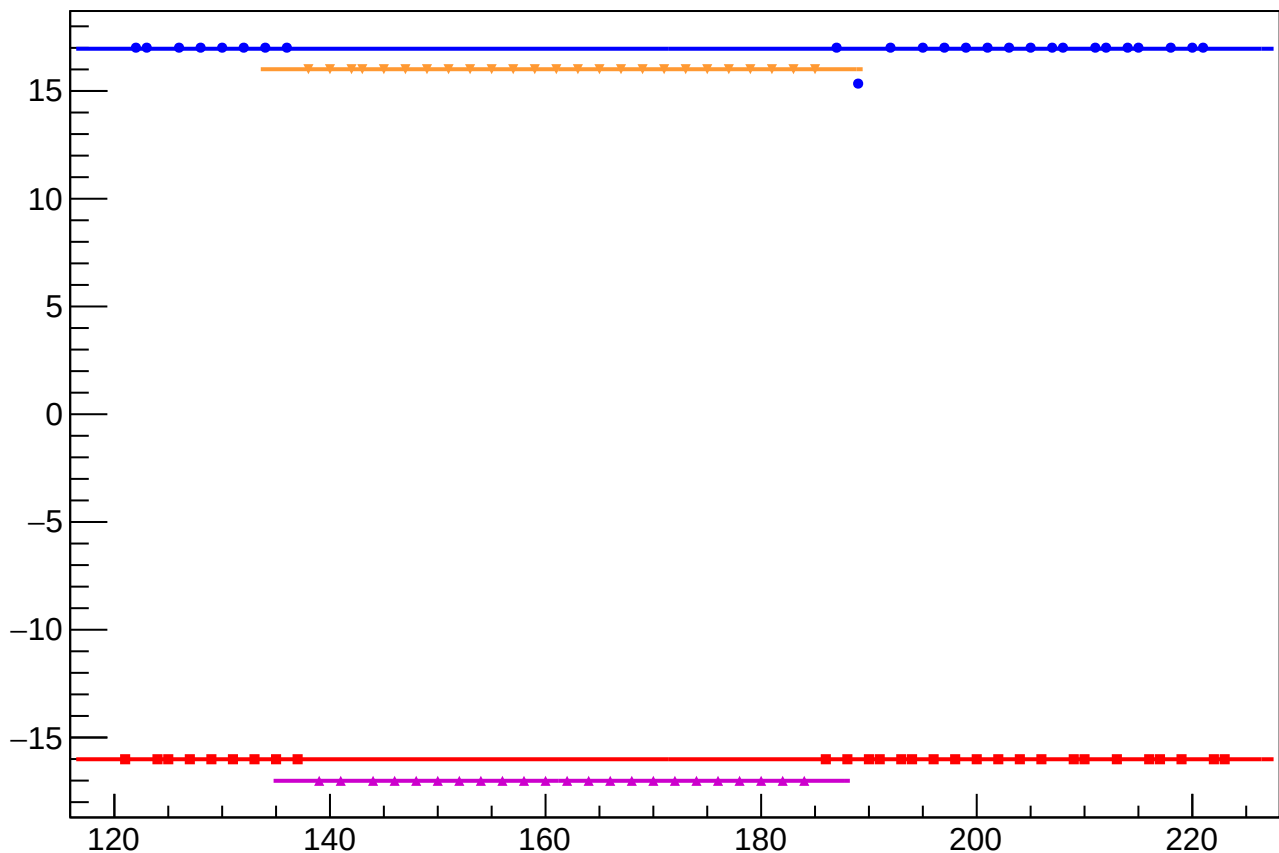
χ^2/NDF : 62679424397425

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



Right In: 15.962 ± 0.000 $\chi^2/\text{NDF}: 121819994942730203555189898608640.0/25$
 Left Out: 17.009 ± 0.000 $\chi^2/\text{NDF}: 26284444608576238643052544.0/24$
 Right Out: -17.009 ± 0.000 $\chi^2/\text{NDF}: 18945967423278418346639360.0/28$
 Left In: -16.009 ± 0.000 $\chi^2/\text{NDF}: 127973174512756677672960.0/22$
 All: 0.165 ± 0.000 $\chi^2/\text{NDF}: 18644285706441.0/22$

IGL1I00OD16_16_mean vs Slug, Sign Corrected



Left: 0.042 ± 0.000 χ^2/NDF : 994312337700629058

Right: 0.422 ± 0.000 χ^2/NDF : 92973845711159281

In: -0.323 ± 0.000 χ^2/NDF : 100111075106851283

Out: 0.756 ± 0.000 χ^2/NDF : 921136538864087320

All: 0.226 ± 0.000 χ^2/NDF : 19243052864417

Right In: 16.959 ± 0.000

χ^2/NDF : 137579657750167462864864910770176.0/25

Left Out: 16.009 ± 0.000

χ^2/NDF : 89740.8/24

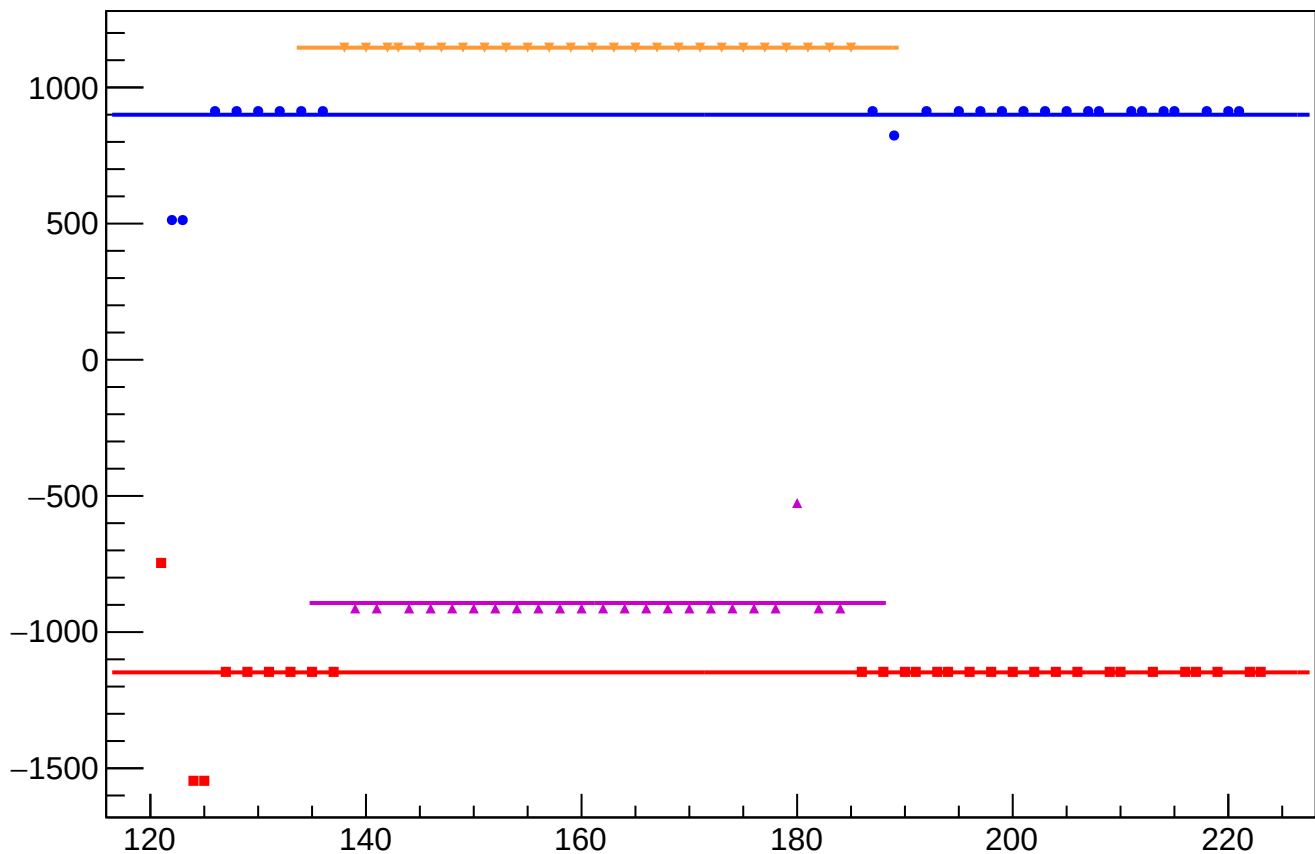
Right Out: -16.009 ± 0.000

χ^2/NDF : 280367.5/28

Left In: -17.009 ± 0.000

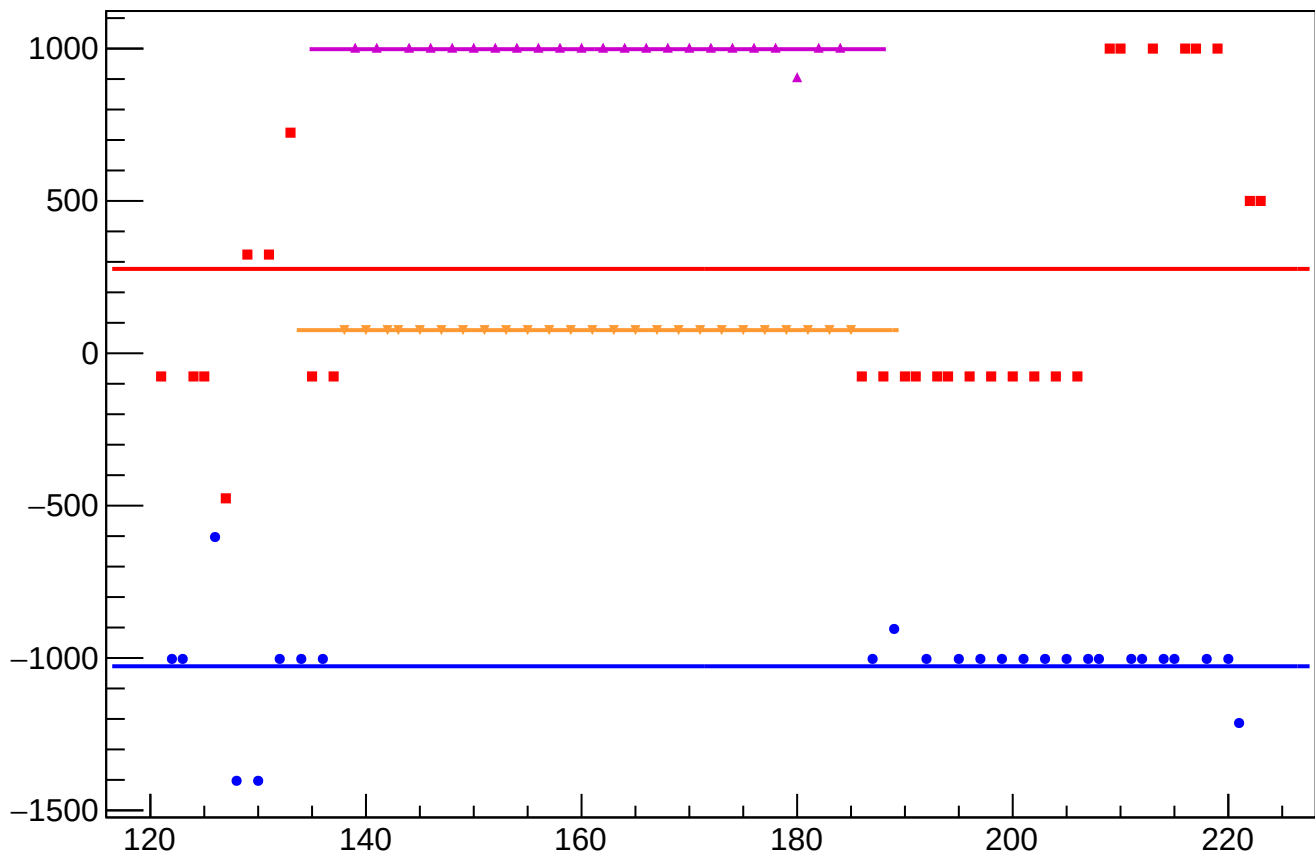
χ^2/NDF : 115033472633445654986752.0/22

RTPAPOSUCNT_mean vs Slug, Sign Corrected



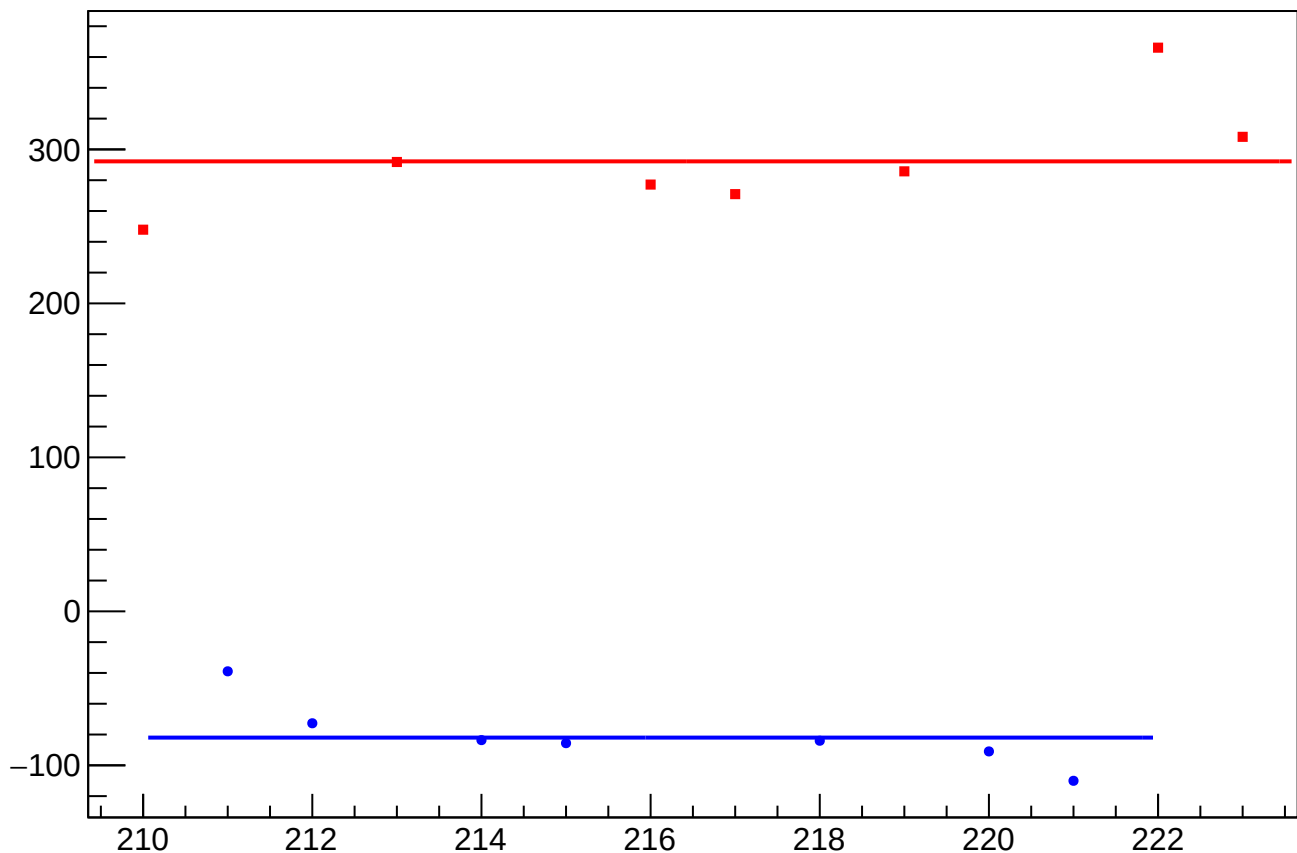
Right In: 899.759 ± 0.000 $\chi^2/\text{NDF}: 7310031348023830234312566084389044224.0/25$
 Left Out: 1146.011 ± 0.000 $\chi^2/\text{NDF}: 8041760976861450519237885952.0/24$
 Right Out: -1147.875 ± 0.000 $\chi^2/\text{NDF}: 1375469949680988413096328067706924032.0/28$
 Left In: -893.116 ± 0.000 $\chi^2/\text{NDF}: 13219826761707982974212661987208331264.0/22$
 All: 19.012 ± 0.000 $\chi^2/\text{NDF}: 7626082181757$

RTPAPOSVCNT_mean vs Slug, Sign Corrected



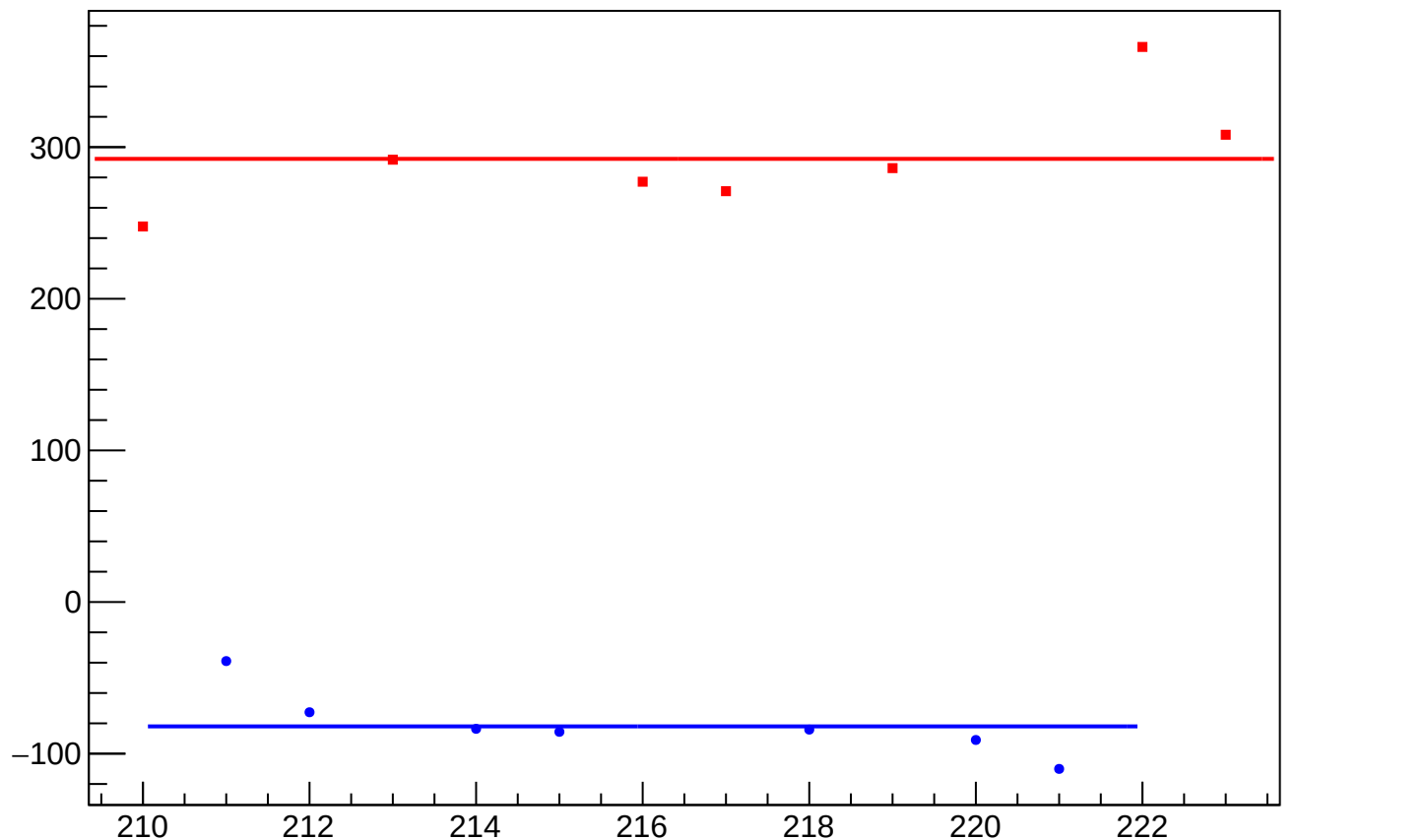
Right In: -1027.142 $\pm$ 0.000 χ^2 /NDF: 26946866227353315433142559360734461952.0/25
 Left Out: 76.011 $\pm$ 0.000 χ^2 /NDF: 11003263624957134120836661248.0/24
 Right Out: 276.958 $\pm$ 0.000 χ^2 /NDF: 399346558596049684408860244338160959488.0/28
 Left In: 998.020 $\pm$ 0.000 χ^2 /NDF: 826231736084035689068445378231140352.0/22
 All: 94.732 $\pm$ 0.000 χ^2 /NDF: 4108333518020

RTPPITA1CNT_mean vs Slug, Sign Corrected



Right In: -81.993 ± 0.000 $\chi^2/\text{NDF}: 232965807440114543061160692918779904.0/6$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 292.242 ± 0.000 $\chi^2/\text{NDF}: 648017925402989825315105211202666496.0/6$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 93.286 ± 0.000 $\chi^2/\text{NDF}: 3781116889142459$

RTPPITA2CNT_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right: 93.287+/-0.000 χ^2/NDF : 3781946620393993
 Right In: -82.009+/-0.000 χ^2/NDF : 233003960766820179277790849840185344.0/6
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right Out: 292.263+/-0.000 χ^2/NDF : 648804010970058060234375515917516800.0/6
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -82.009+/-0.000 χ^2/NDF : 23300396076682017
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: 93.287+/-0.000 χ^2/NDF : 3781946620393