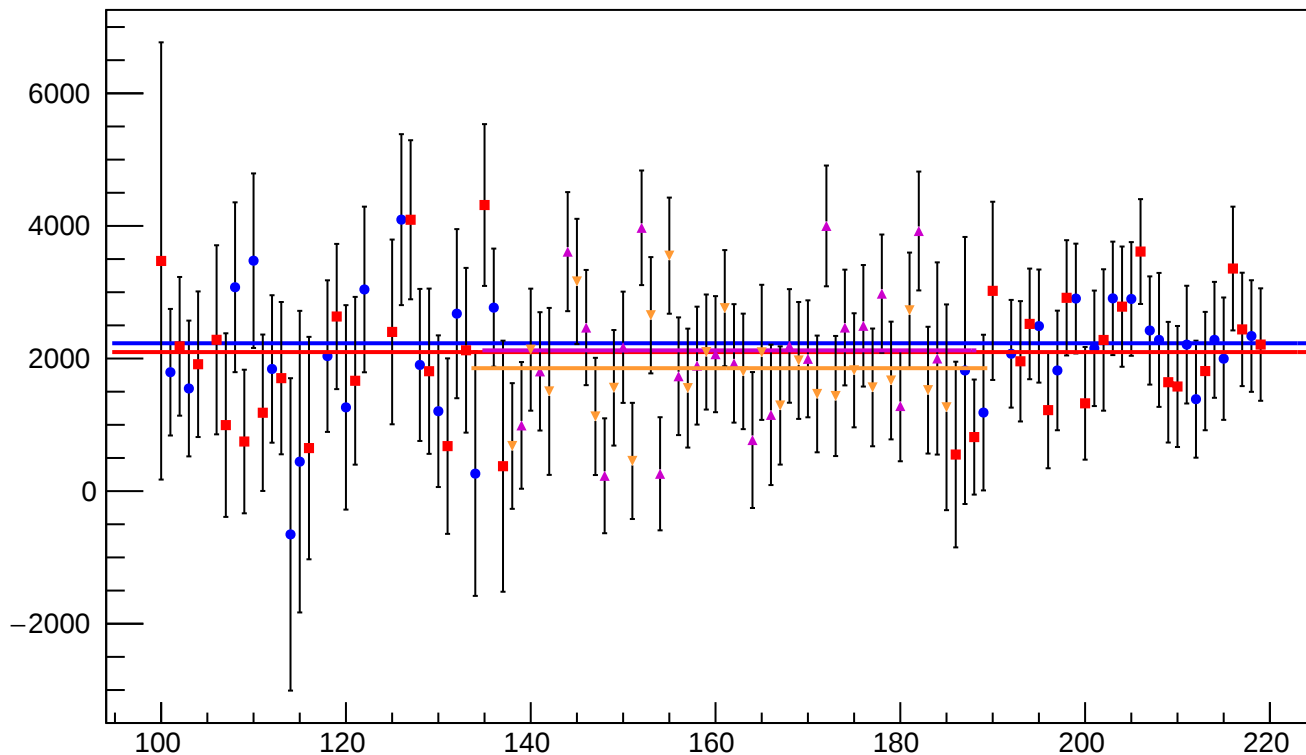


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2230.297+/-182.378

Left Out: 1854.267+/-187.405

Right Out: 2097.149+/-178.658

Left In: 2123.138+/-188.684

χ^2/NDF : 13.8/31

χ^2/NDF : 15.1/23

χ^2/NDF : 26.2/34

χ^2/NDF : 32.0/22

Left: 1987.788+/-132.965

Right: 2162.351+/-127.625

In: 2178.538+/-131.134

Out: 1981.508+/-129.312

All: 2078.645+/-92.075

χ^2/NDF : 48.1/46

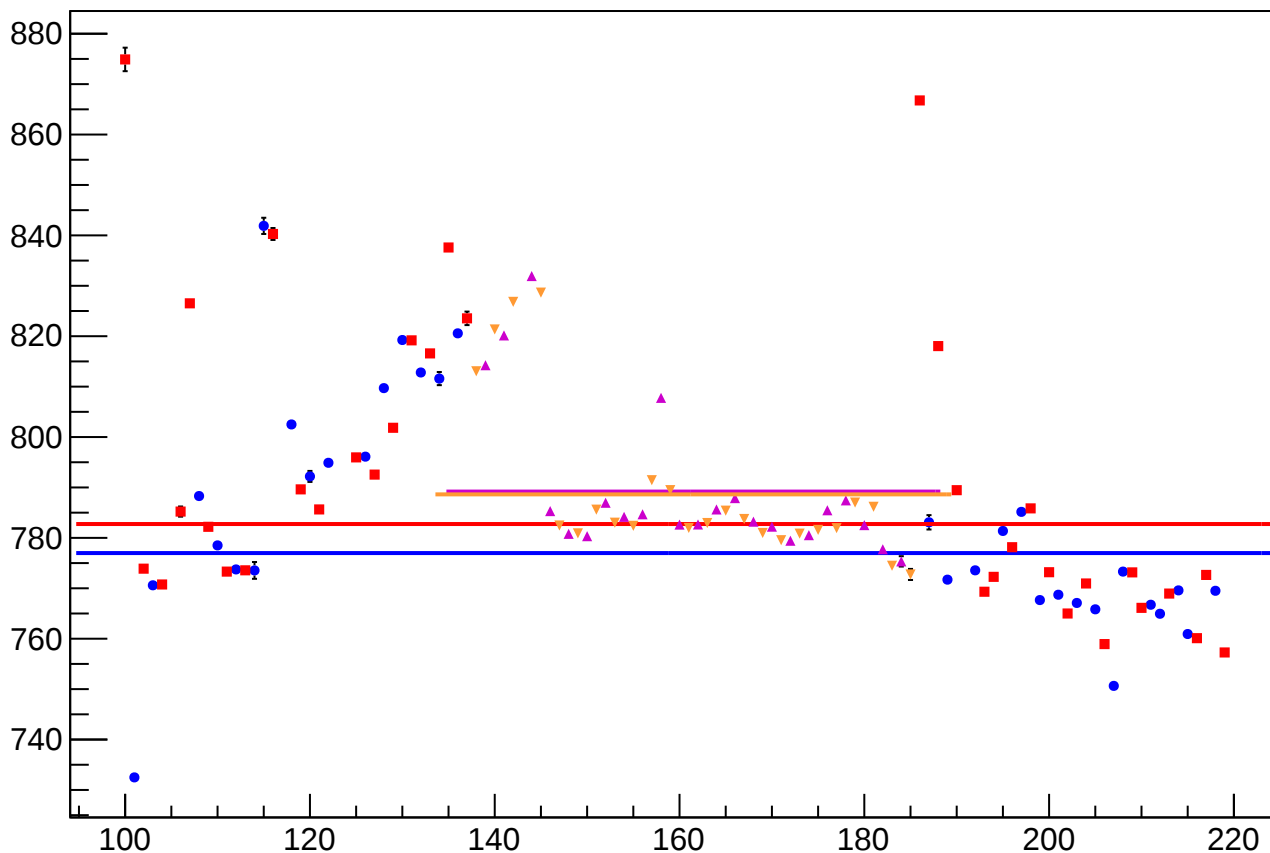
χ^2/NDF : 40.3/66

χ^2/NDF : 46.0/54

χ^2/NDF : 42.2/58

χ^2/NDF : 89.3/113

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 776.987 ± 0.129 χ^2/NDF : 24706.3/31

Left Out: 788.629 ± 0.133 χ^2/NDF : 11478.1/23

Right Out: 782.747 ± 0.126 χ^2/NDF : 34374.8/34

Left In: 789.185 ± 0.133 χ^2/NDF : 11343.2/22

Left: 788.905 ± 0.094 χ^2/NDF : 22830.1/46

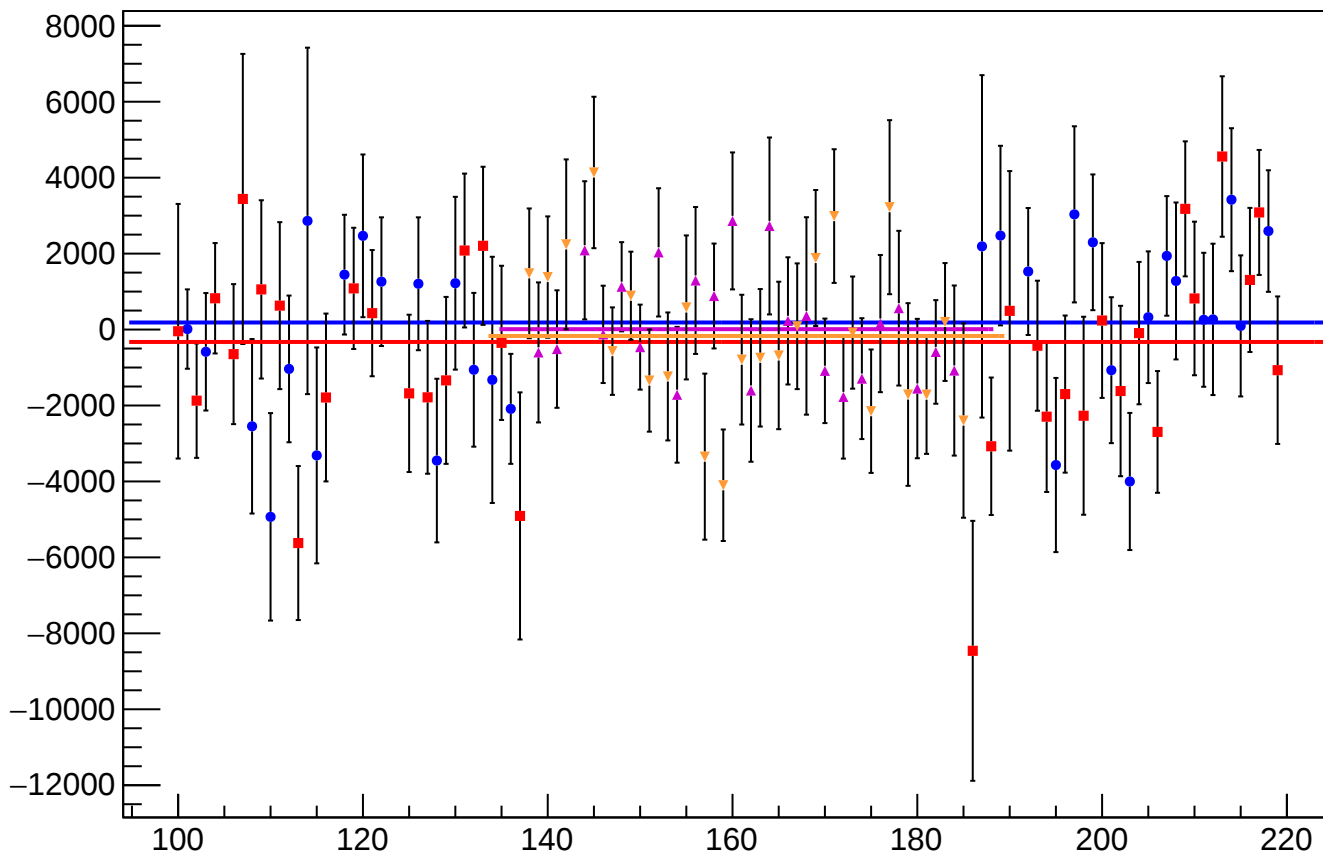
Right: 779.926 ± 0.090 χ^2/NDF : 60099.1/66

In: 782.879 ± 0.093 χ^2/NDF : 40370.6/54

Out: 785.548 ± 0.091 χ^2/NDF : 46885.2/58

All: 784.232 ± 0.065 χ^2/NDF : 87675.9/113

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: 186.023 ± 333.824 χ^2/NDF : 36.0/31

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

Right Out: -326.625 ± 338.947 χ^2/NDF : 44.8/34

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

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

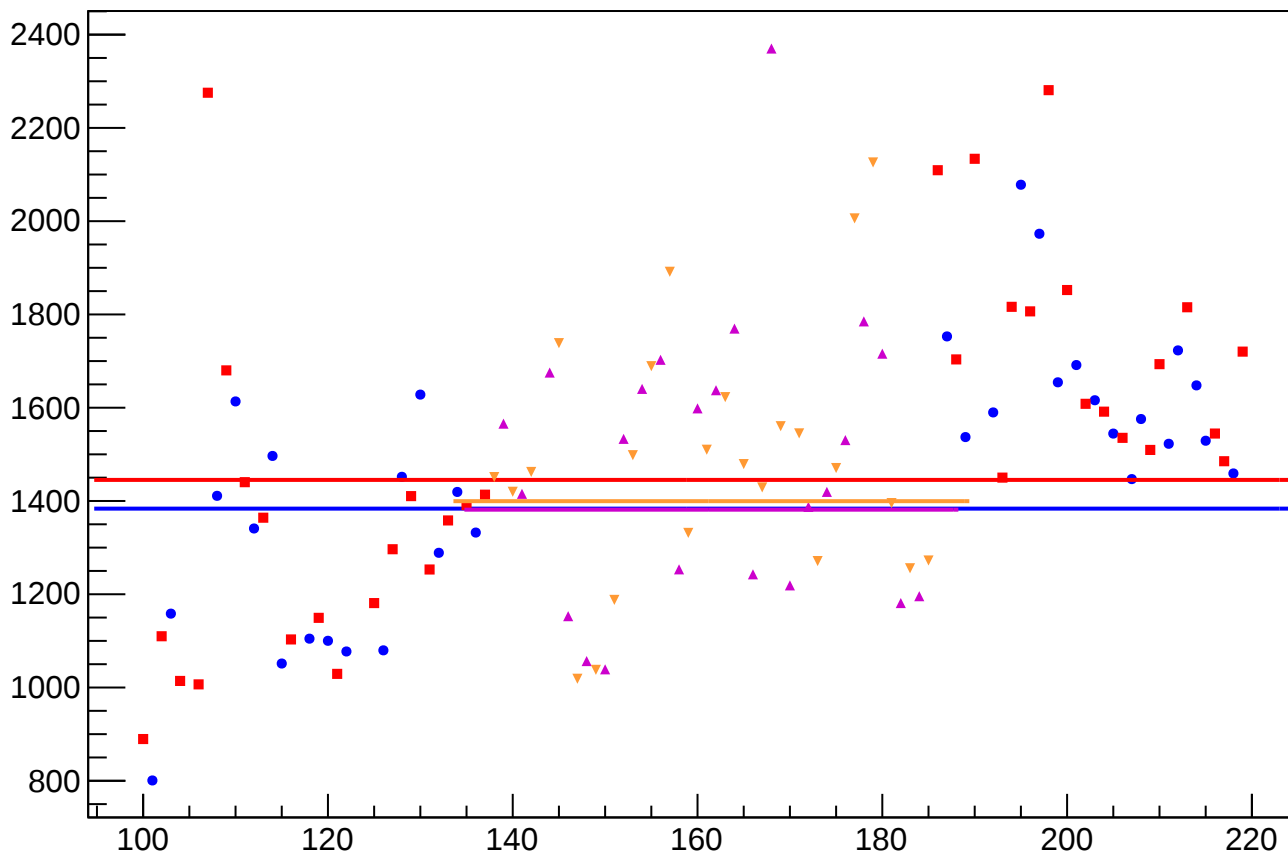
Right: -66.397 ± 237.840 χ^2/NDF : 82.0/66

In: 99.102 ± 237.446 χ^2/NDF : 50.4/54

Out: -248.233 ± 240.181 χ^2/NDF : 74.9/58

All: -72.577 ± 168.858 χ^2/NDF : 126.4/113

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1383.610 $\pm$ 0.236 χ^2 /NDF: 1623371.4/31

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

Right Out: 1445.191 $\pm$ 0.240 χ^2 /NDF: 1641940.0/34

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

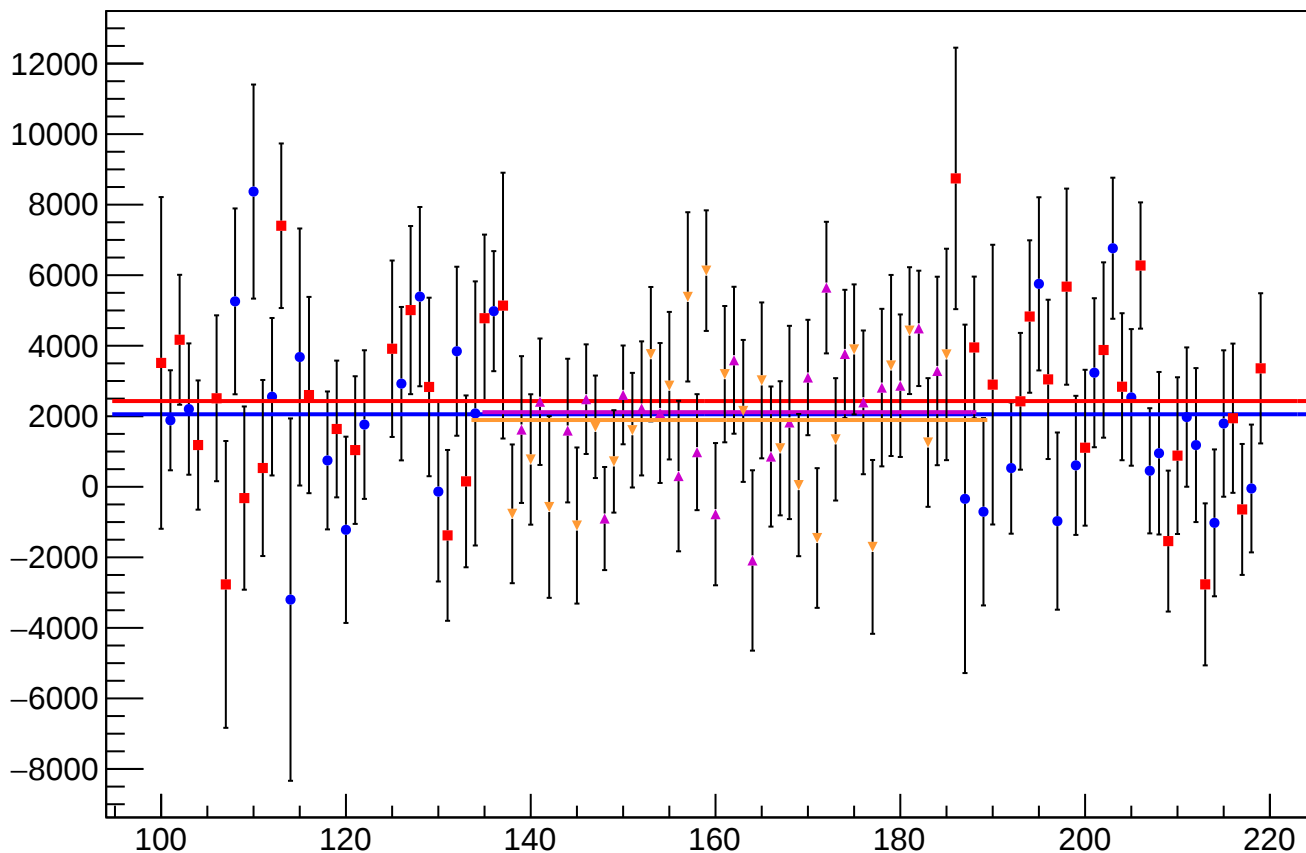
Right: 1413.931 $\pm$ 0.168 χ^2 /NDF: 3298822.7/66

In: 1382.498 $\pm$ 0.168 χ^2 /NDF:2899904.5/54

Out: 1422.486 $\pm$ 0.170 χ^2 /NDF:2779090.9/58

All: 1402.263 $\pm$ 0.119 χ^2 /NDF: 5707032.2/119

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2056.554 $\pm$ 388.482 χ^2 /NDF: 32.2/31

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

Right Out: 2430.897 $\pm$ 390.746 χ^2 /NDF: 40.3/34

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

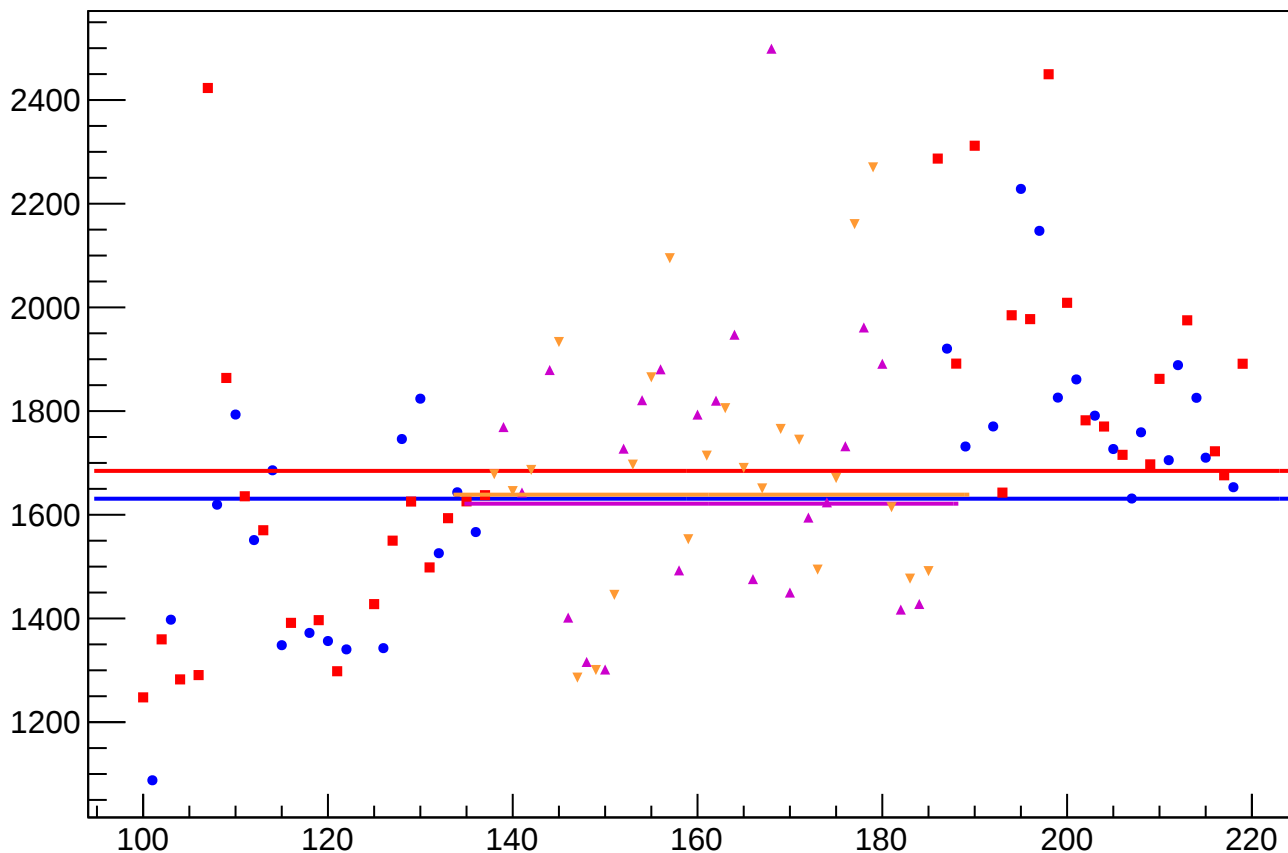
Right: 2242.637 $\pm$ 275.495 χ^2 /NDF: 73.0/66

In: 2085.990 $\pm$ 276.281 χ^2 /NDF:51.0/54

Out: 2165.008 $\pm$ 277.748 χ^2 /NDF:67.2/58

All: 2125.290 $\pm$ 195.877 χ^2 /NDF: 118.2/113

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1630.987 $\pm$ 0.275 χ^2 /NDF: 839971.8/31

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

Right Out: 1684.645 $\pm$ 0.276 χ^2 /NDF: 955318.1/34

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

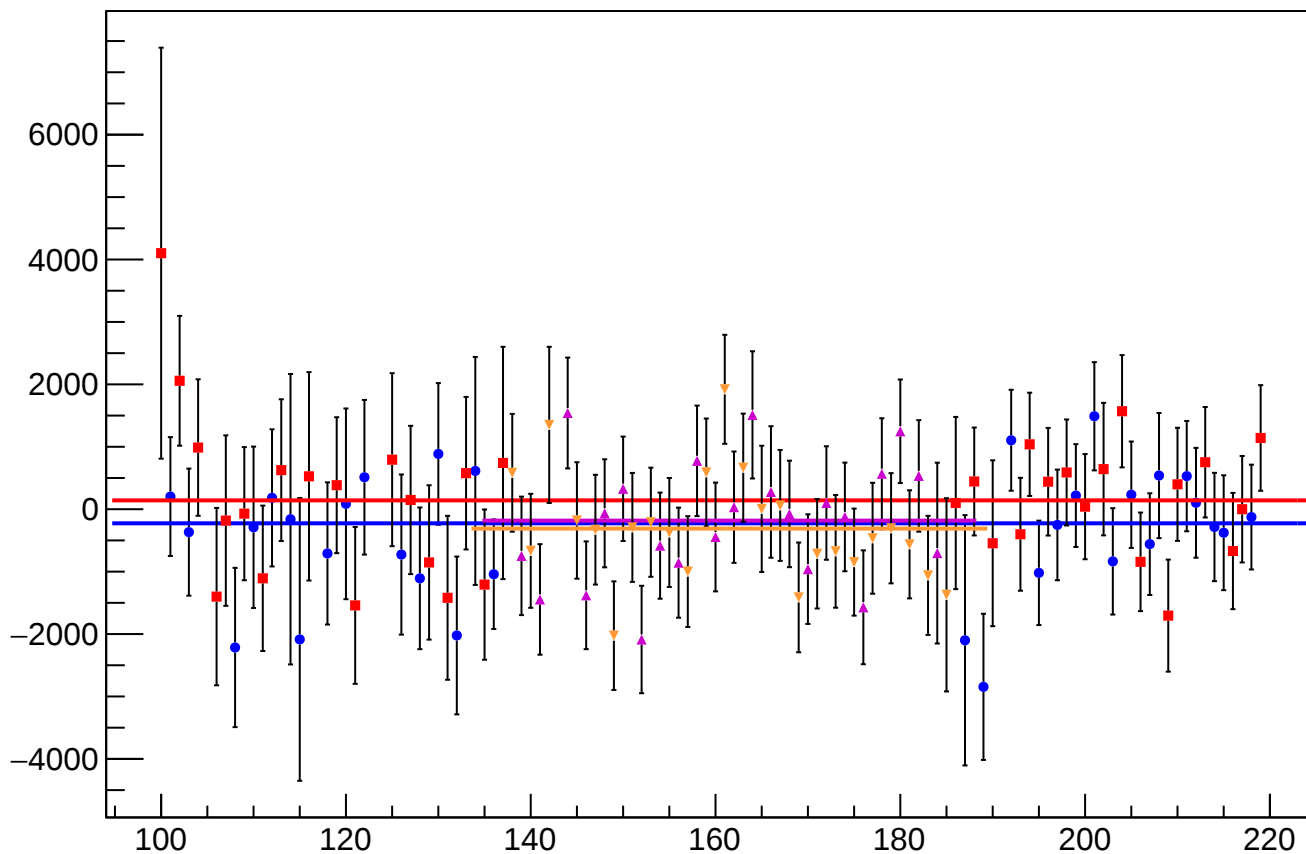
Right: 1657.660 $\pm$ 0.195 χ^2 /NDF: 1814256.3/66

In: 1626.257 $\pm$ 0.195 χ^2 /NDF: 1615881.8/54

Out: 1661.967 $\pm$ 0.196 χ^2 /NDF: 1640841.7/58

All: 1644.017 $\pm$ 0.139 χ^2 /NDF: 3273340.3/11

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -225.757 ± 181.078 $\chi^2/\text{NDF}: 25.0/31$

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

Right Out: 141.502 ± 177.126 $\chi^2/\text{NDF}: 27.3/34$

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

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

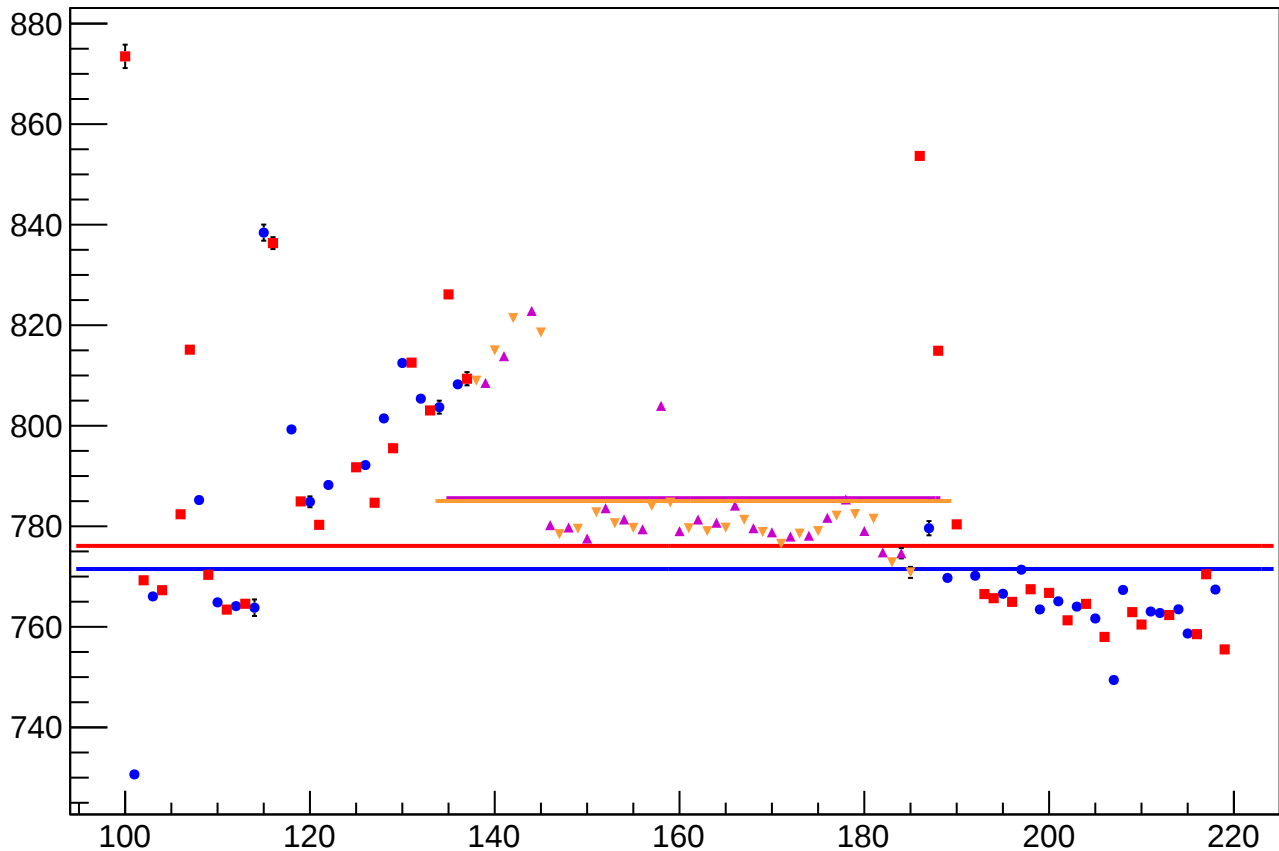
Right: -38.076 ± 126.621 $\chi^2/\text{NDF}: 54.4/66$

In: -205.109 ± 130.359 $\chi^2/\text{NDF}: 51.2/54$

Out: -72.839 ± 128.445 $\chi^2/\text{NDF}: 50.5/58$

All: -137.996 ± 91.494 $\chi^2/\text{NDF}: 102.1/113$

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 771.503 $\pm$ 0.128 χ^2 /NDF: 21000.5/31

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

Right Out: 776.101 $\pm$ 0.125 χ^2 /NDF: 31333.8/34

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

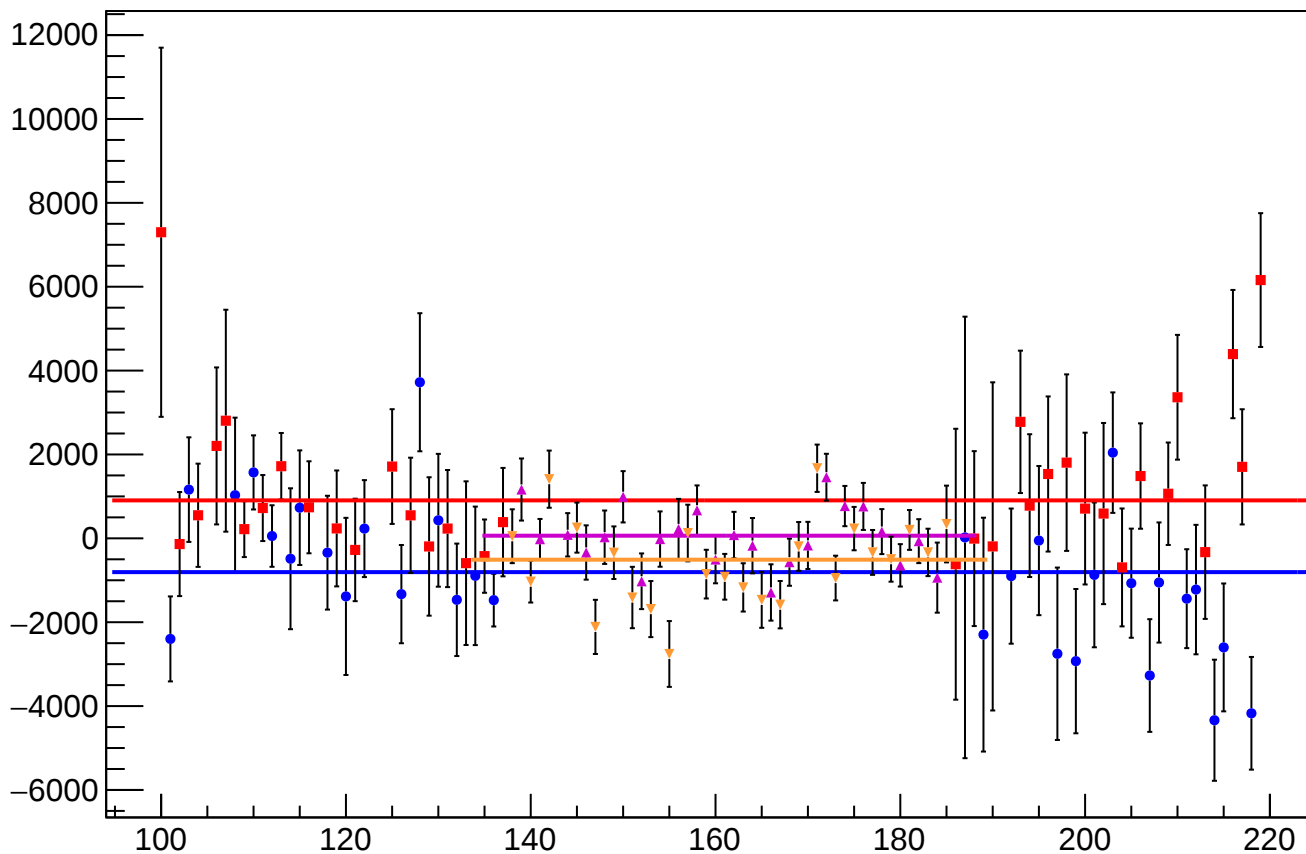
Right: 773.853 $\pm$ 0.090 χ^2 /NDF: 52993.3/66

In: 778.290 $\pm$ 0.092 χ^2 /NDF:36206.7/54

Out: 780.335 $\pm$ 0.091 χ^2 /NDF:43111.6/58

All: 779.328 $\pm$ 0.065 χ^2 /NDF: 79568.0/113

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -805.675 ± 229.628 $\chi^2/\text{NDF}: 50.9/31$

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

Right Out: 904.953 ± 226.375 $\chi^2/\text{NDF}: 34.7/34$

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

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

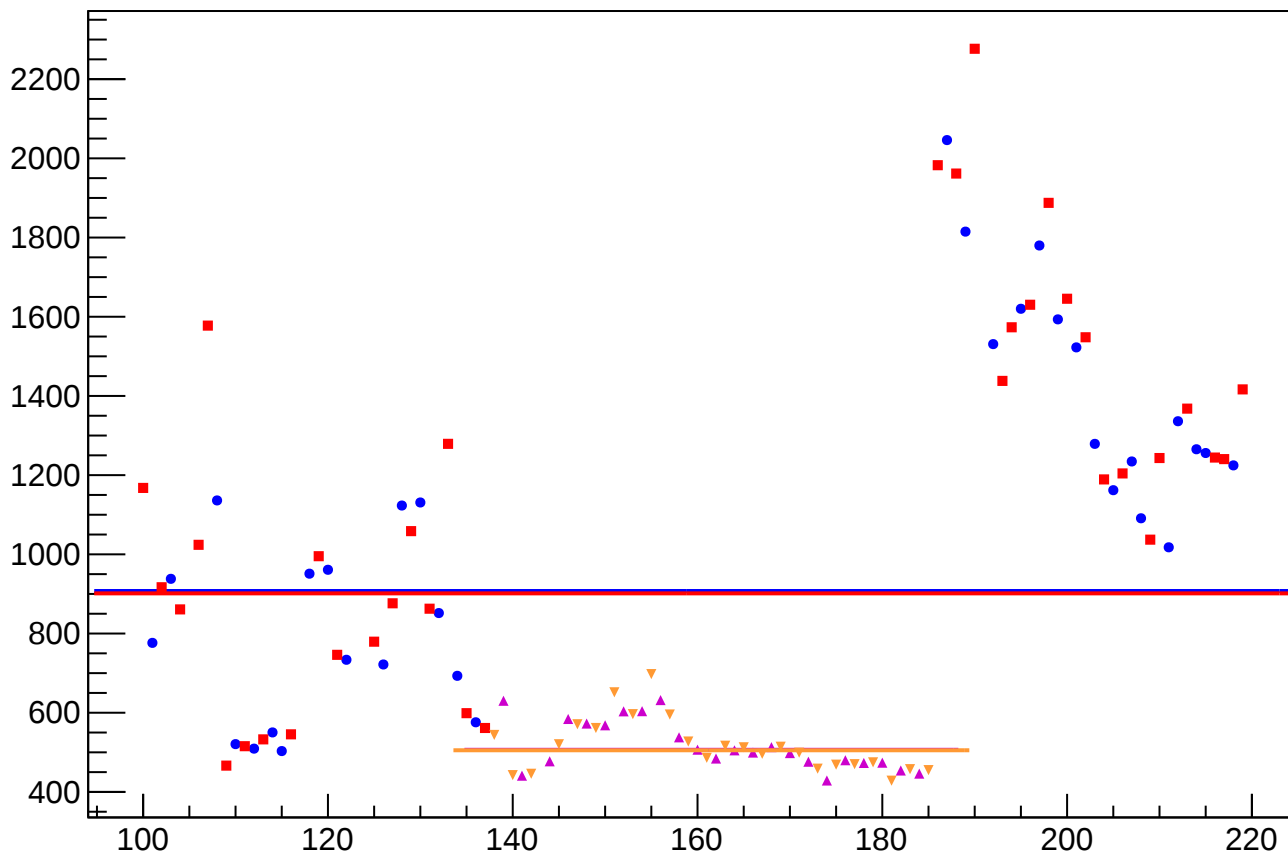
Right: 61.841 ± 161.209 $\chi^2/\text{NDF}: 113.8/66$

In: -128.518 ± 107.769 $\chi^2/\text{NDF}: 90.9/54$

Out: -194.272 ± 106.843 $\chi^2/\text{NDF}: 125.6/58$

All: -161.679 ± 75.875 $\chi^2/\text{NDF}: 216.6/113$

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 907.392+/-0.162 χ^2/NDF : 4801022.2/31

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

Right Out: 901.440+/-0.160 χ^2/NDF : 6355392.8/34

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

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

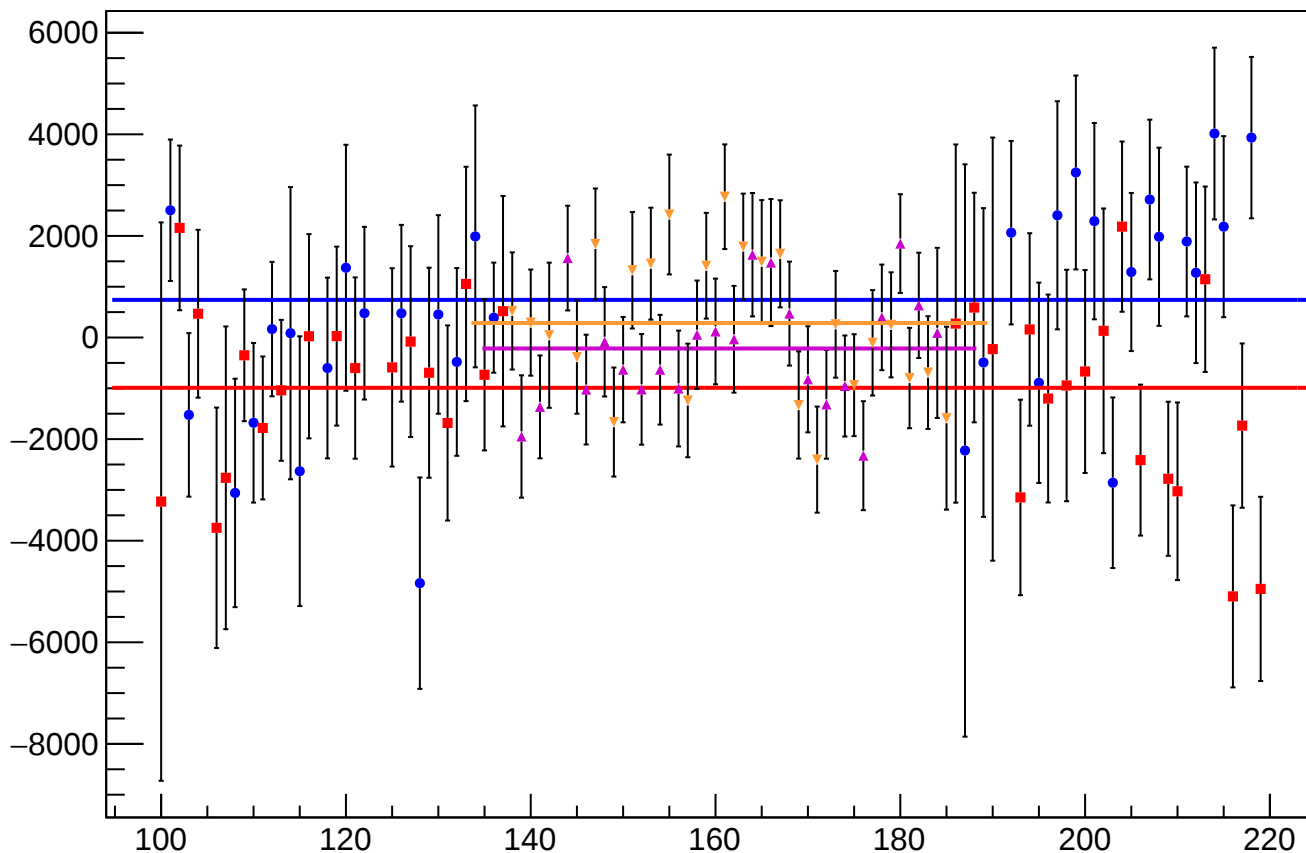
Right: 904.374+/-0.114 χ^2/NDF : 11157096.3/66

In: 594.708+/-0.076 χ^2/NDF : 9993311.5/54

Out: 593.481+/-0.076 χ^2/NDF : 11603118.4/58

All: 594.089+/-0.054 χ^2/NDF : 21596560.6/110

asym_us_dd_mean vs Slug, Sign Corrected



Right In: 741.217 $\pm$ 315.174 χ^2 /NDF: 39.9/31

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

Right Out: -989.872 $\pm$ 315.228 χ^2 /NDF: 30.7/34

Left In: -216.121 $\pm$ 225.600 χ^2 /NDF:24.4/22

Left: 35.874 $\pm$ 159.089 χ^2 /NDF: 65.2/46

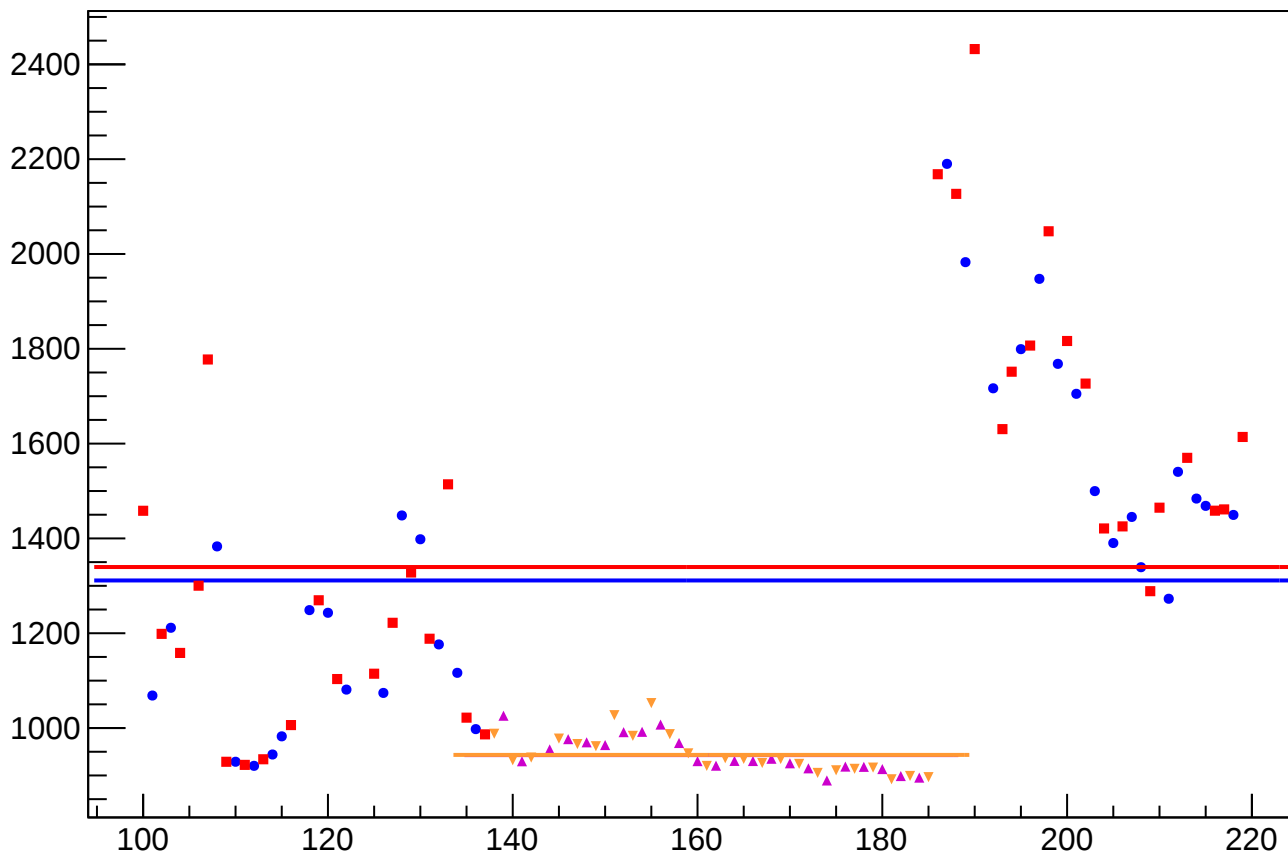
Right: -124.177 $\pm$ 222.881 χ^2 /NDF: 85.6/66

In: 108.210 $\pm$ 183.447 χ^2 /NDF:70.4/54

Out: -143.613 $\pm$ 182.799 χ^2 /NDF:79.8/58

All: -18.147 $\pm$ 129.487 χ^2 /NDF: 151.1/113

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1311.327+/-0.223 χ^2/NDF : 1566237.7/31

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

Right Out: 1339.670+/-0.223 χ^2/NDF : 2137984.0/34

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

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

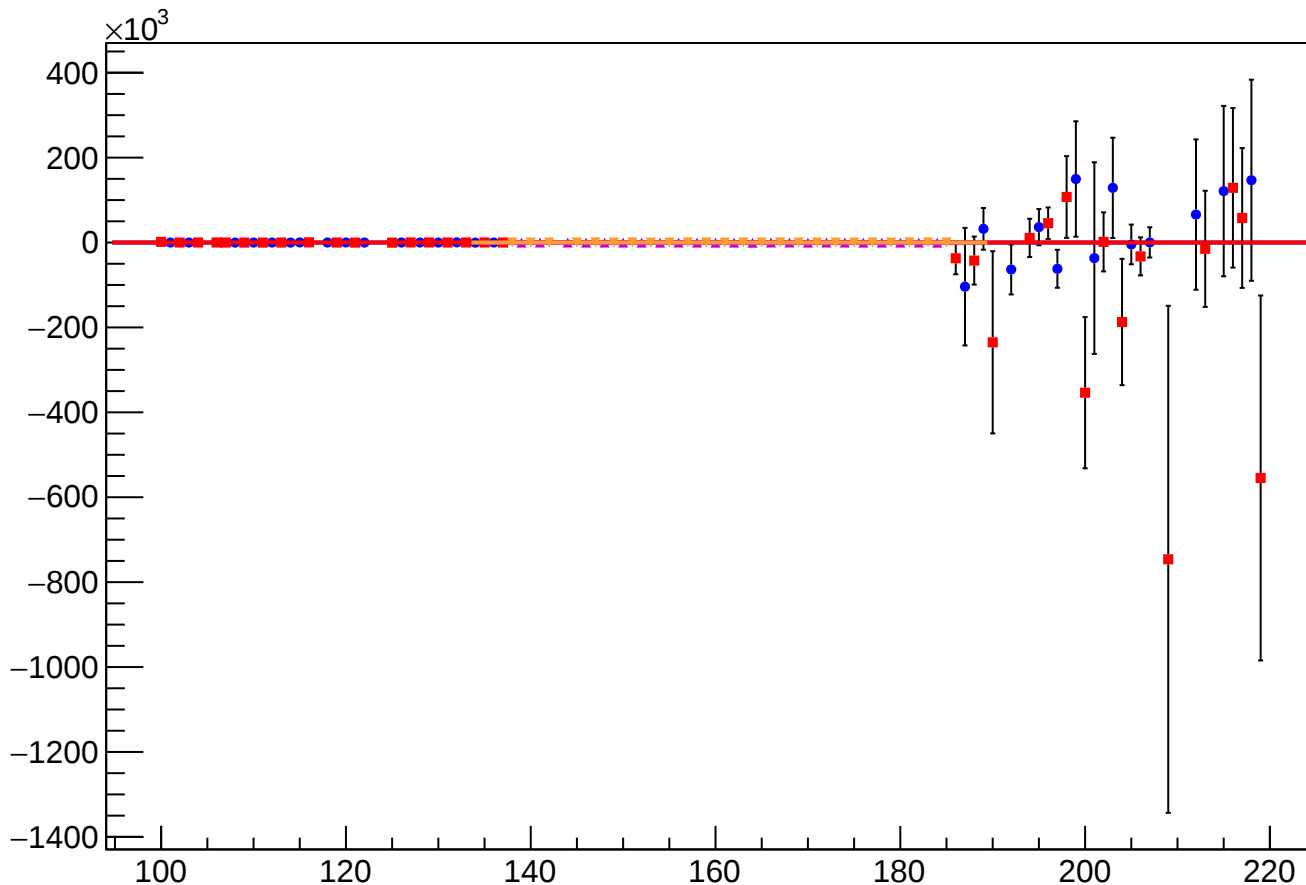
Right: 1325.496+/-0.158 χ^2/NDF : 3712307.0/66

In: 1067.735+/-0.130 χ^2/NDF : 3421460.6/54

Out: 1076.623+/-0.129 χ^2/NDF : 4296597.9/58

All: 1072.195+/-0.092 χ^2/NDF : 7720414.4/11

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -15.550+/-30.032 χ^2/NDF : 24.1/28

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

Right Out: 31.726+/-30.492 χ^2/NDF : 32.2/32

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

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

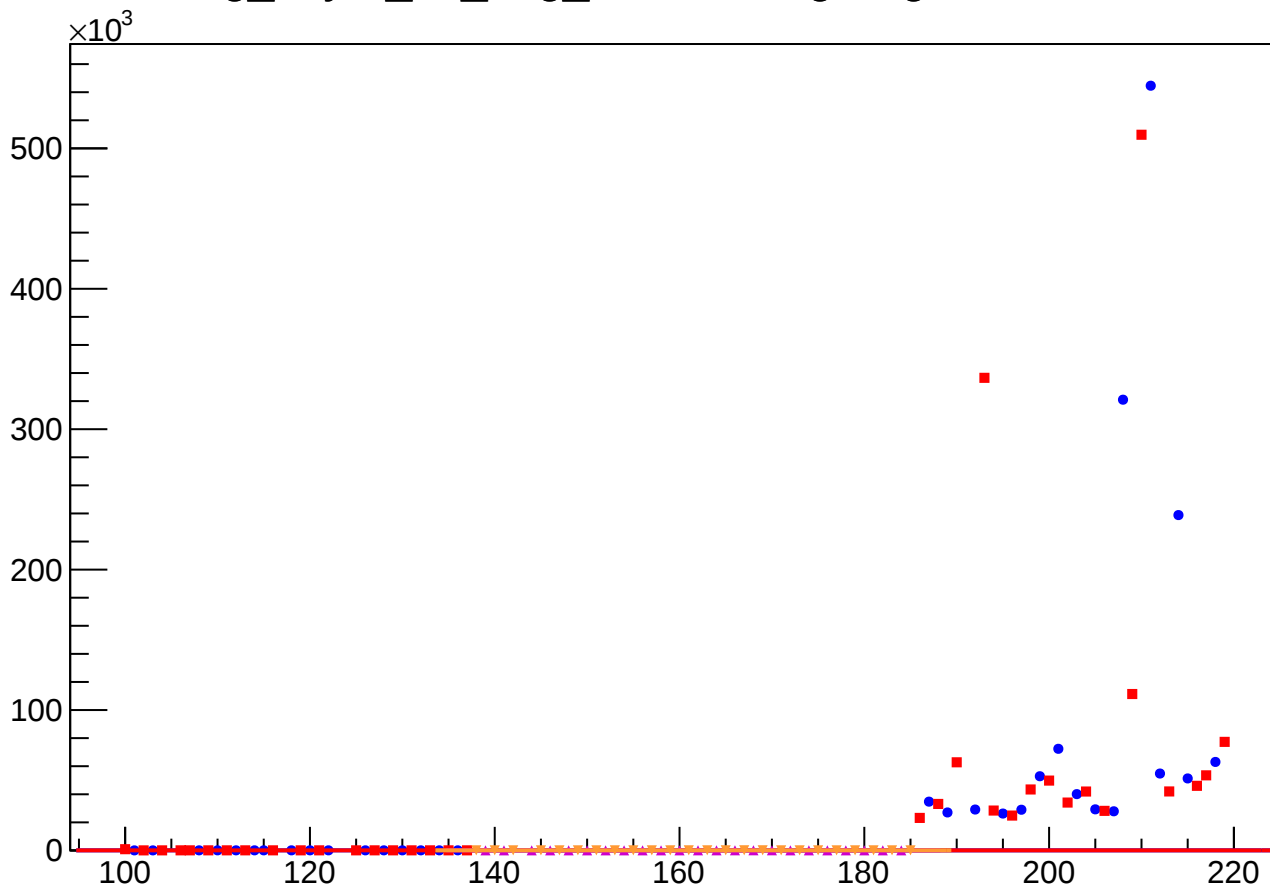
Right: 7.729+/-21.397 χ^2/NDF : 57.5/61

In: -20.417+/-17.527 χ^2/NDF :46.6/51

Out: 12.995+/-17.553 χ^2/NDF :55.2/56

All: -3.736+/-12.403 χ^2/NDF : 103.7/108

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.143 $\pm$ 0.021 χ^2 /NDF: 6919236.5/31

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

Right Out: 79.462 $\pm$ 0.022 χ^2 /NDF: 6633733.1/34

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

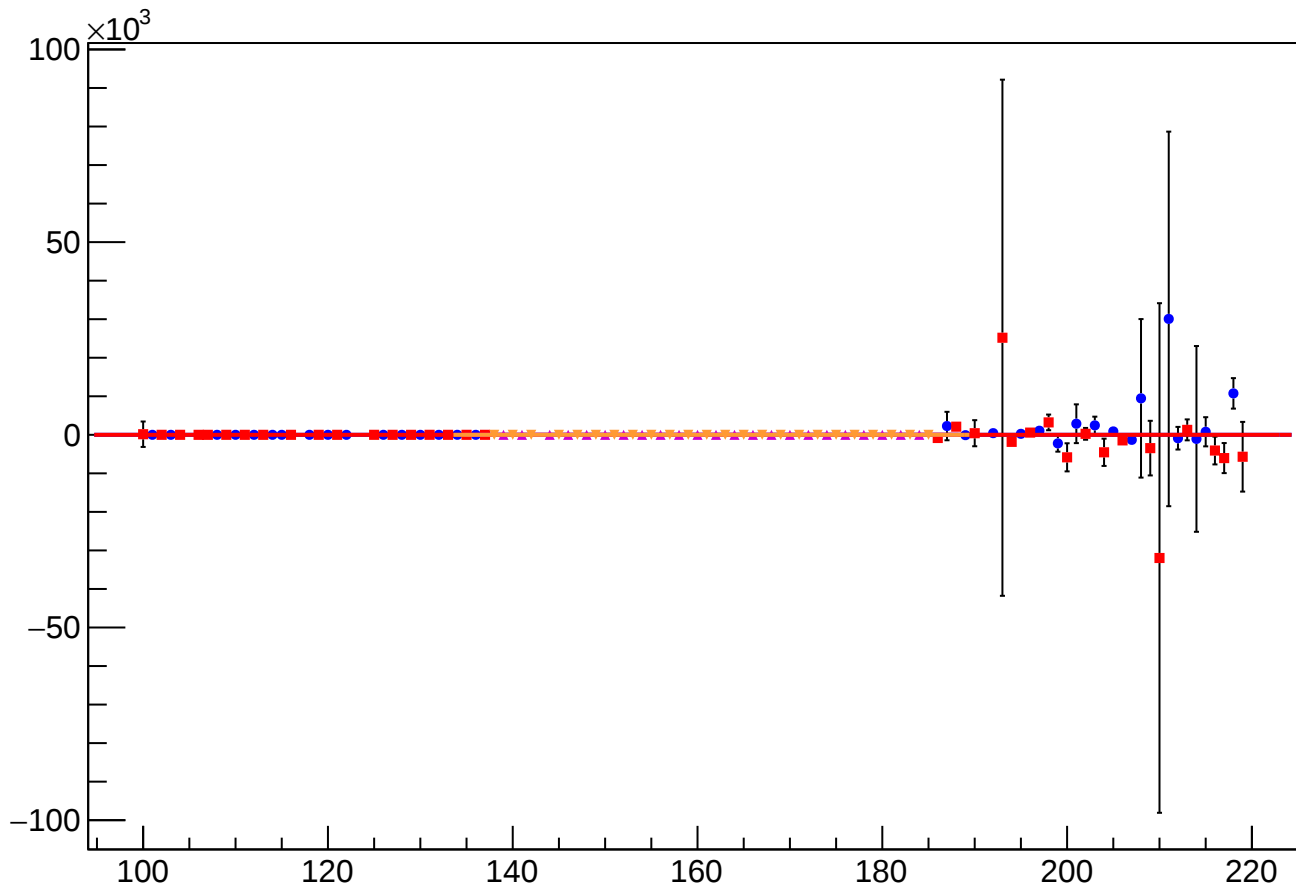
Right: 77.777 $\pm$ 0.015 χ^2 /NDF: 13564994.4/66

In: 85.014 $\pm$ 0.012 χ^2 /NDF: 7692354.3/54

Out: 86.302 $\pm$ 0.012 χ^2 /NDF: 7250545.3/58

All: 85.657 $\pm$ 0.009 χ^2 /NDF: 14948292.8/113

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.289 ± 0.502 χ^2/NDF : 39.0/31

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

Right Out: 0.038 ± 0.525 χ^2/NDF : 33.8/34

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

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

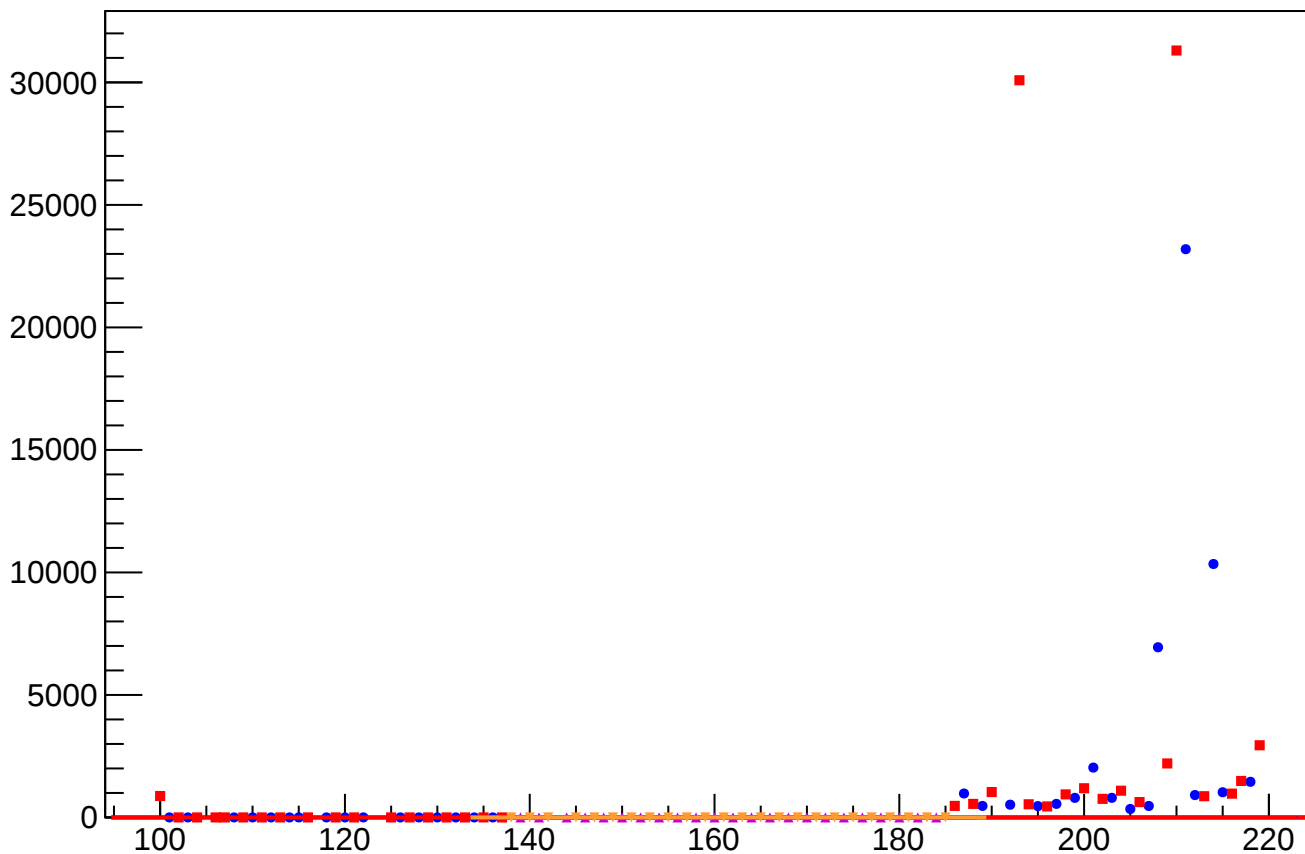
Right: -0.133 ± 0.363 χ^2/NDF : 72.9/66

In: -0.433 ± 0.306 χ^2/NDF : 65.4/54

Out: 0.096 ± 0.306 χ^2/NDF : 55.1/58

All: -0.168 ± 0.217 χ^2/NDF : 122.1/113

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.153+/-0.000 χ^2/NDF : 6988558.8/31

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

Right Out: 1.260+/-0.000 χ^2/NDF : 7465685.4/34

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

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

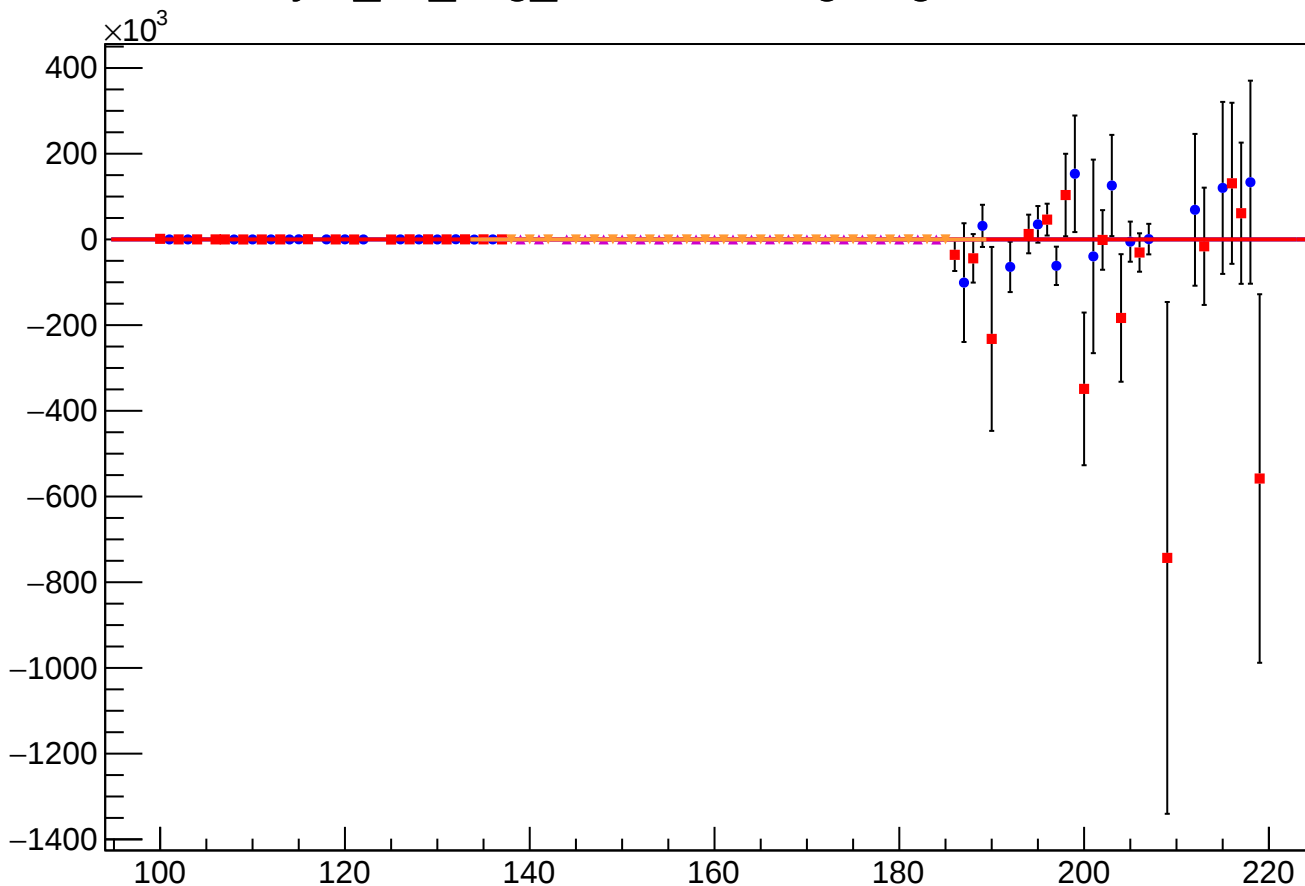
Right: 1.204+/-0.000 χ^2/NDF : 14497641.4/66

In: 1.341+/-0.000 χ^2/NDF : 8432485.3/54

Out: 1.358+/-0.000 χ^2/NDF : 8558224.0/58

All: 1.350+/-0.000 χ^2/NDF : 16993675.5/113

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -14.487+/-30.040 χ^2/NDF : 24.2/28

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

Right Out: 32.007+/-30.500 χ^2/NDF : 31.9/32

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

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

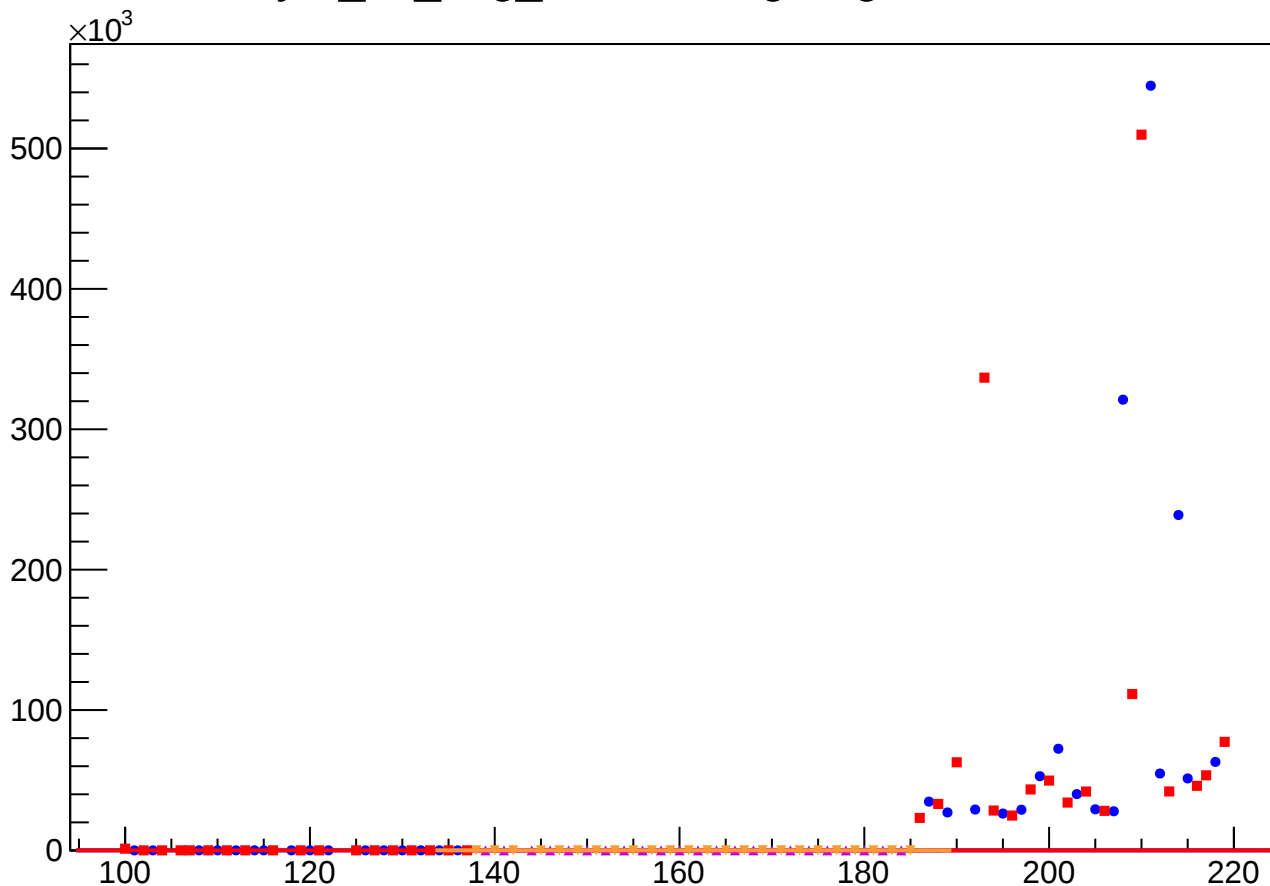
Right: 8.406+/-21.402 χ^2/NDF : 57.3/61

In: -19.735+/-17.532 χ^2/NDF :46.6/51

Out: 12.946+/-17.559 χ^2/NDF :54.6/56

All: -3.419+/-12.407 χ^2/NDF : 102.9/108

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.163+/-0.021 χ^2 /NDF: 6919369.9/31

Left Out: 89.719+/-0.015 χ^2 /NDF: 467023.5/23

Right Out: 79.465+/-0.022 χ^2 /NDF: 6640364.9/34

Left In: 89.622+/-0.015 χ^2 /NDF: 509391.8/22

Left: 89.671+/-0.011 χ^2 /NDF: 976435.5/46

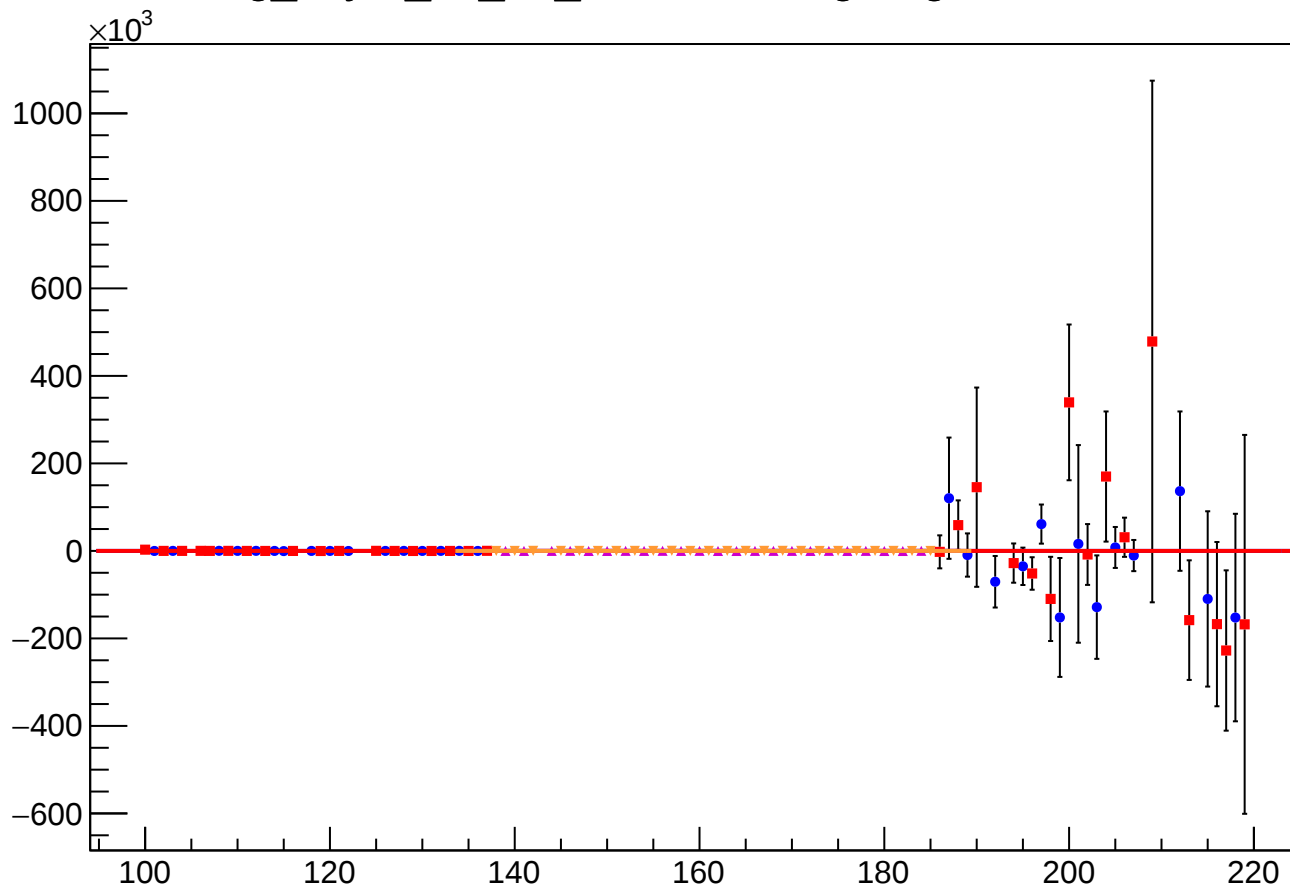
Right: 77.789+/-0.015 χ^2 /NDF: 13571634.5/66

In: 85.038+/-0.012 χ^2 /NDF: 7693490.4/54

Out: 86.321+/-0.012 χ^2 /NDF: 7258520.1/58

All: 85.678+/-0.009 χ^2 /NDF: 14957357.9/113

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 8.087 ± 30.012 χ^2/NDF : 22.6/28

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

Right Out: -25.803 ± 30.473 χ^2/NDF : 27.8/32

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

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

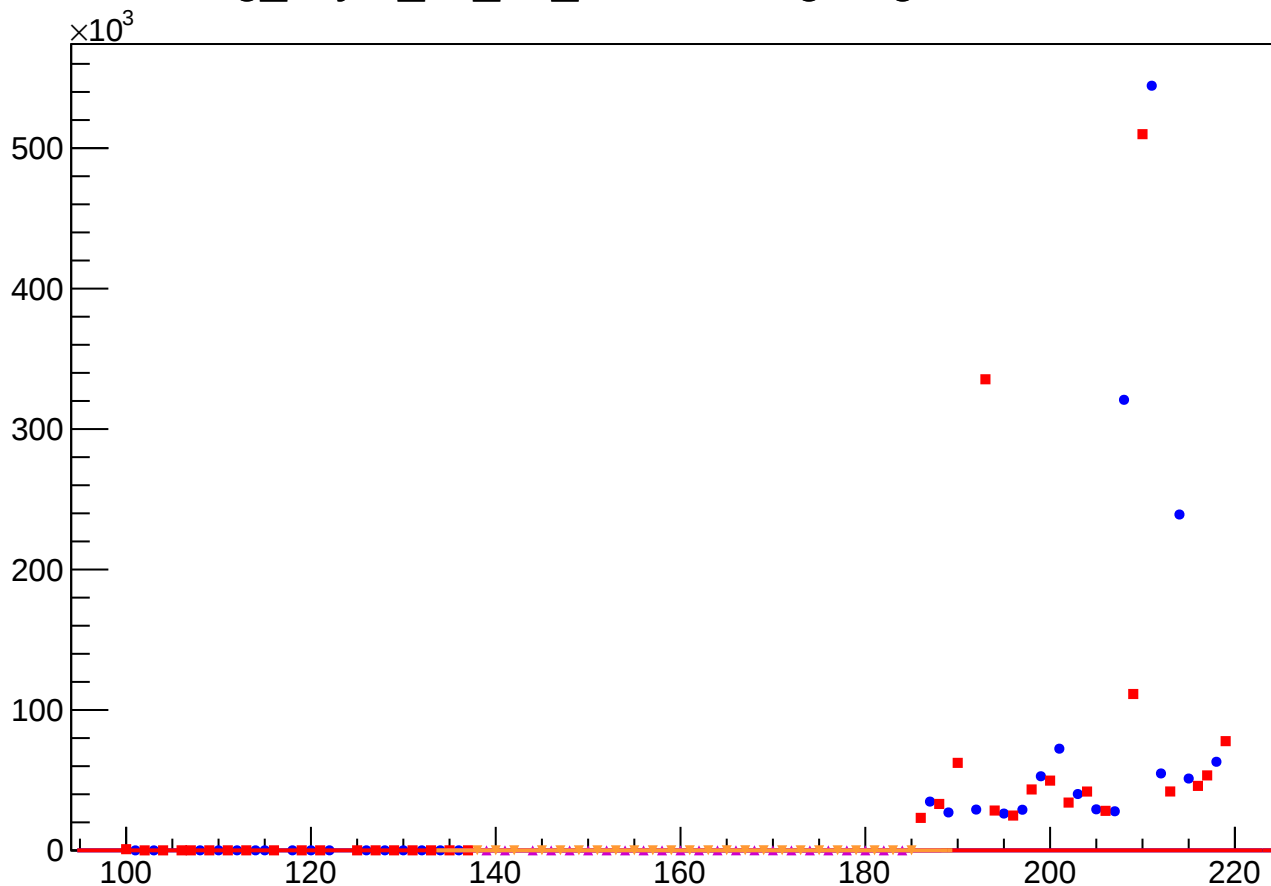
Right: -8.600 ± 21.383 χ^2/NDF : 51.1/61

In: 31.371 ± 17.528 χ^2/NDF : 55.0/51

Out: 1.646 ± 17.552 χ^2/NDF : 46.2/56

All: 16.529 ± 12.403 χ^2/NDF : 102.6/108

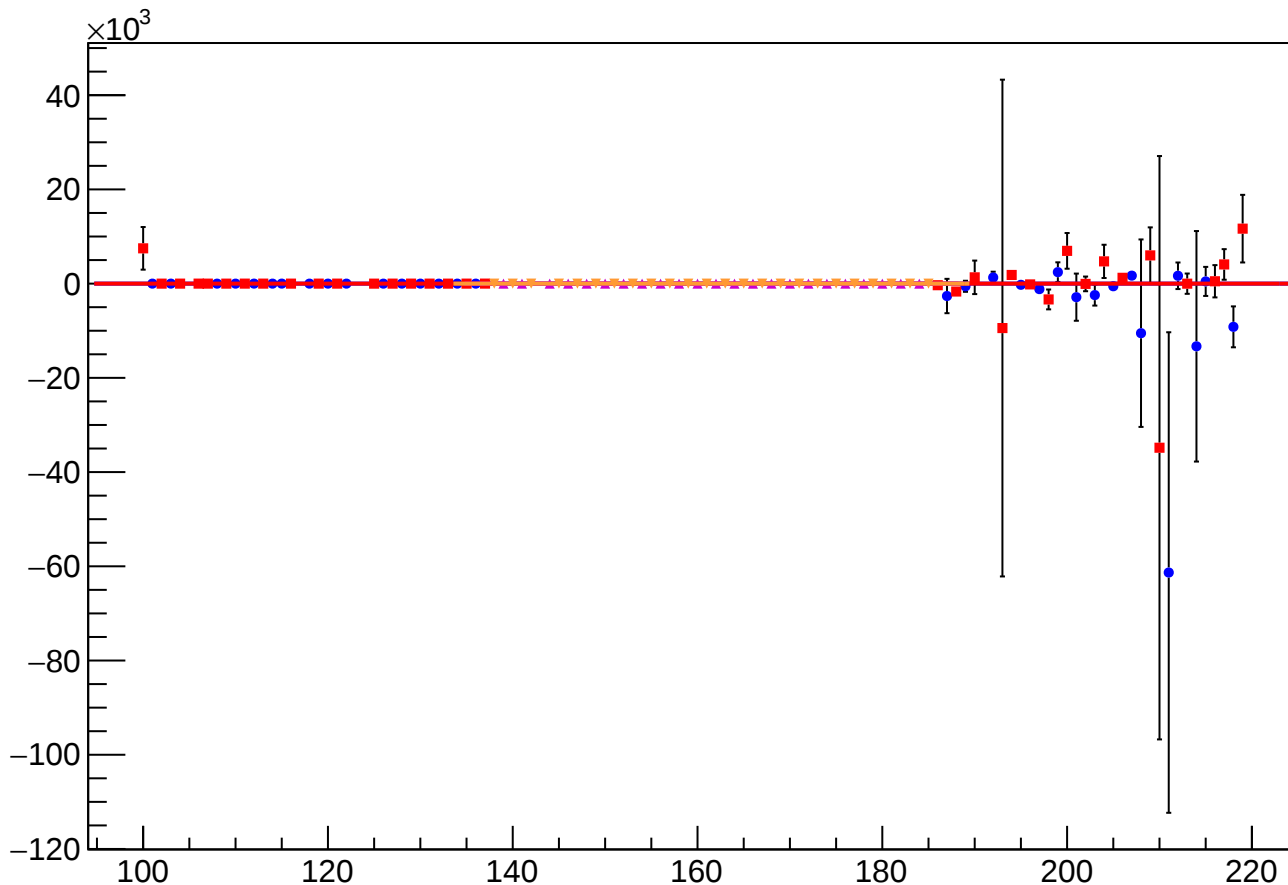
reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.094+/-0.021 χ^2/NDF : 6918819.0/31
Left Out: 89.712+/-0.015 χ^2/NDF : 465096.2/23
Right Out: 79.413+/-0.022 χ^2/NDF : 6633089.1/34
Left In: 89.628+/-0.015 χ^2/NDF : 511042.3/22

Left: 89.670 $\pm$ 0.011 χ^2 /NDF: 976153.9/46
Right: 77.728 $\pm$ 0.015 χ^2 /NDF: 13563953.9/66
In: 85.011 $\pm$ 0.012 χ^2 /NDF: 7697844.9/54
Out: 86.295 $\pm$ 0.012 χ^2 /NDF: 7250840.7/58
All: 85.652 $\pm$ 0.009 χ^2 /NDF: 14954041.1/113

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.892 ± 0.531 $\chi^2/\text{NDF}: 32.3/31$

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

Right Out: 0.348 ± 0.549 $\chi^2/\text{NDF}: 36.2/34$

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

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

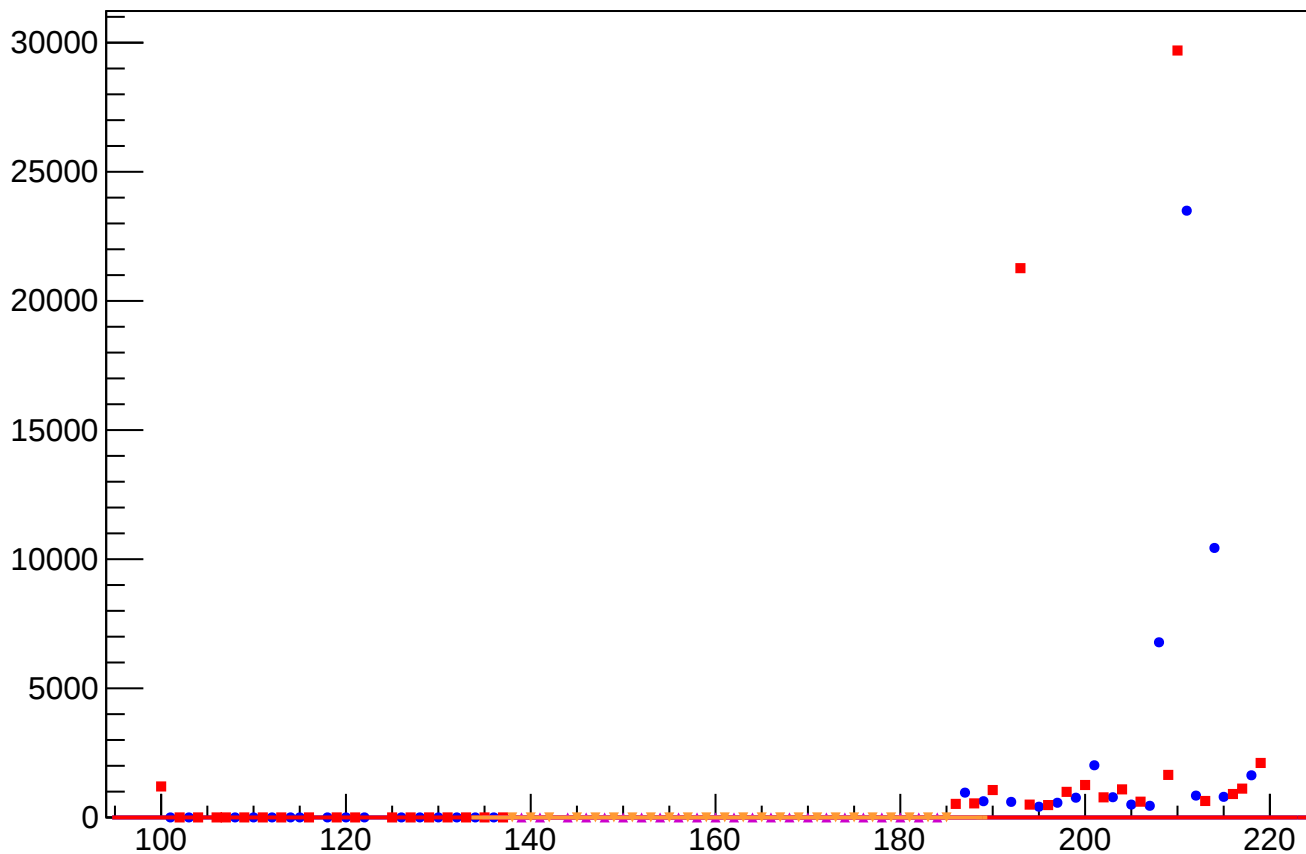
Right: 0.629 ± 0.382 $\chi^2/\text{NDF}: 69.0/66$

In: 0.266 ± 0.315 $\chi^2/\text{NDF}: 54.8/54$

Out: -0.225 ± 0.318 $\chi^2/\text{NDF}: 58.6/58$

All: 0.024 ± 0.224 $\chi^2/\text{NDF}: 114.6/113$

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.234+/-0.000 χ^2/NDF : 7229243.8/31

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

Right Out: 1.317+/-0.000 χ^2/NDF : 7259880.0/34

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

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

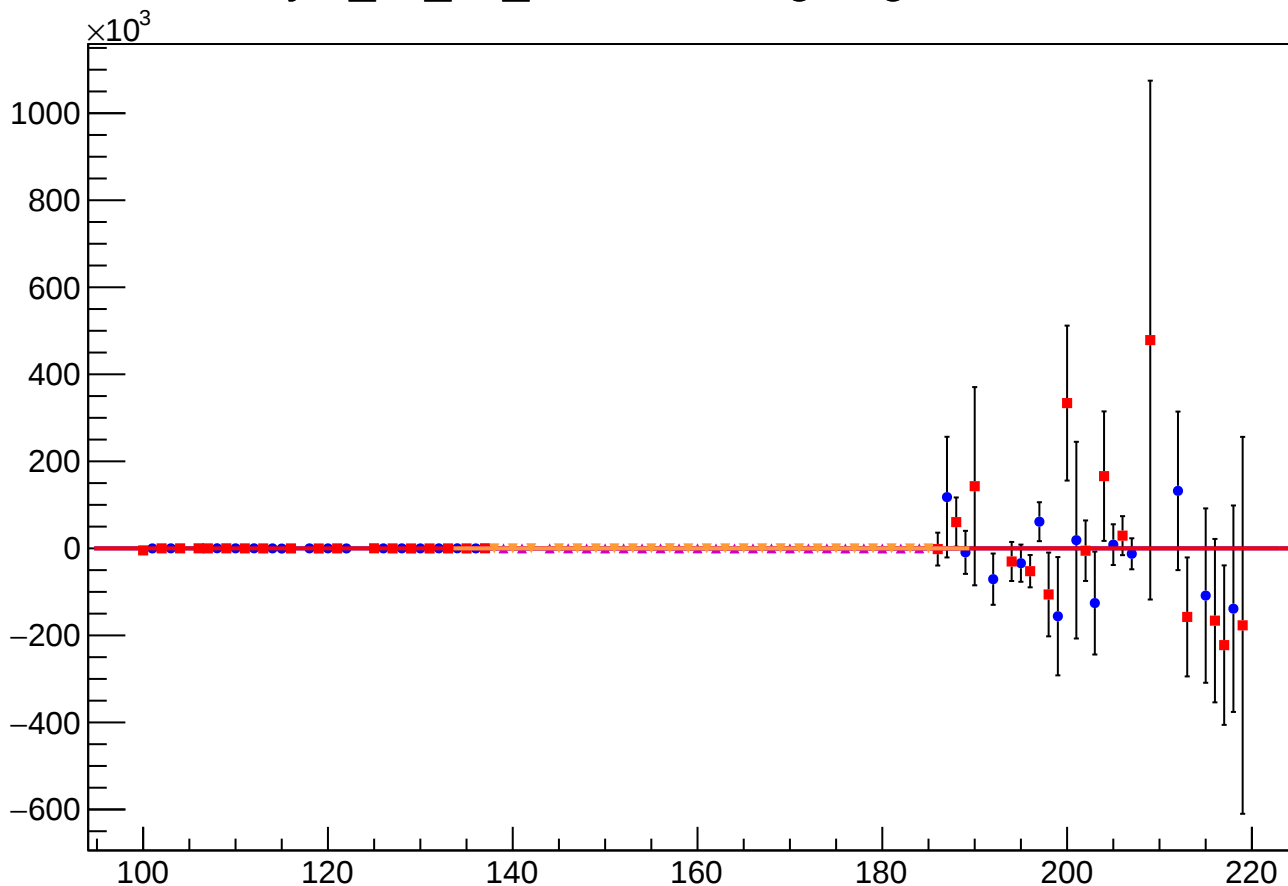
Right: 1.274+/-0.000 χ^2/NDF : 14512317.3/66

In: 1.382+/-0.000 χ^2/NDF : 8514146.7/54

Out: 1.419+/-0.000 χ^2/NDF : 8518664.8/58

All: 1.400+/-0.000 χ^2/NDF : 17046446.5/113

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.379+/-30.020 χ^2/NDF : 22.4/28

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

Right Out: -26.413+/-30.482 χ^2/NDF : 27.8/32

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

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

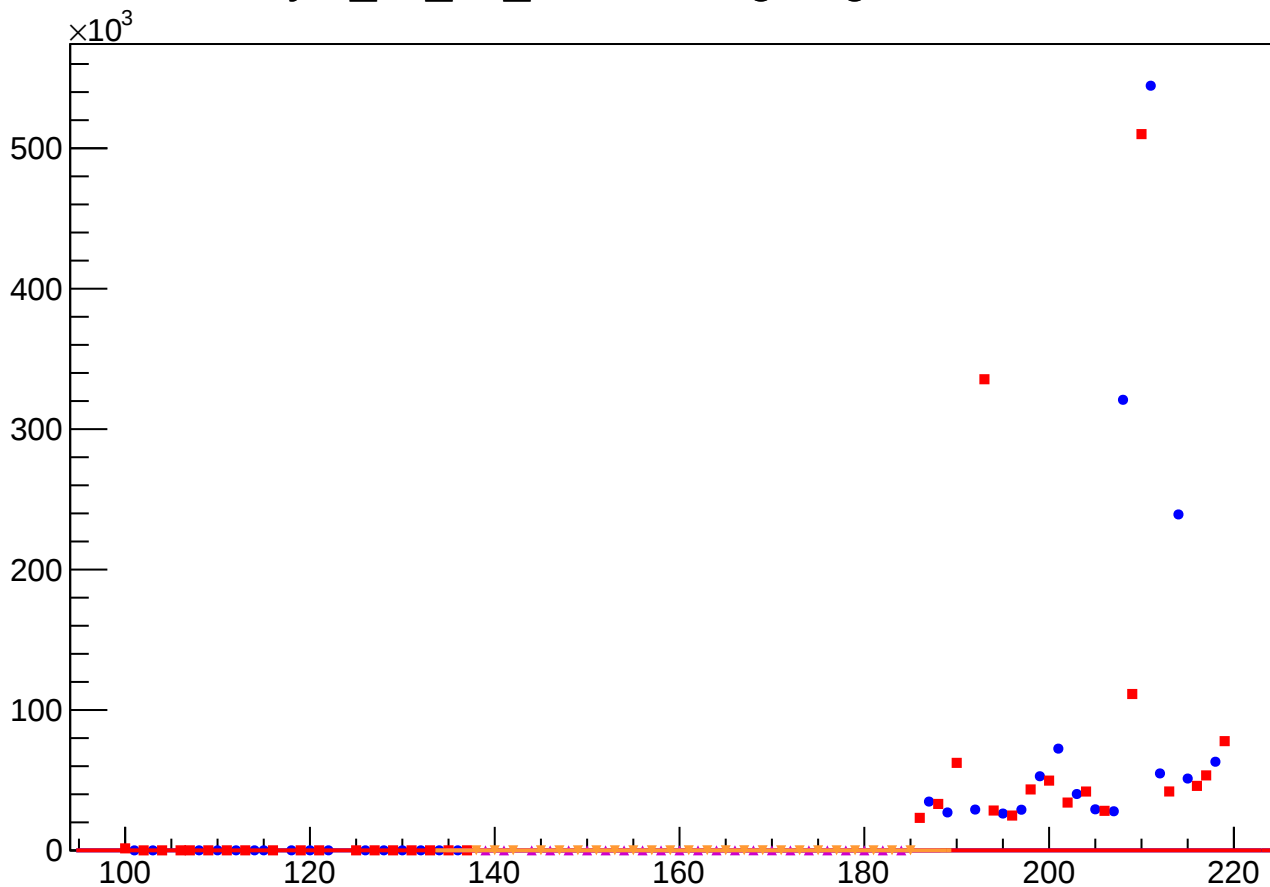
Right: -9.260+/-21.389 χ^2/NDF : 50.8/61

In: 31.445+/-17.533 χ^2/NDF :54.5/51

Out: 1.774+/-17.558 χ^2/NDF :46.1/56

All: 16.631+/-12.407 χ^2/NDF : 102.0/108

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.114 $\pm$ 0.021 χ^2/NDF : 6919010.2/31

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

Right Out: 79.410 $\pm$ 0.022 χ^2/NDF : 6642404.3/34

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

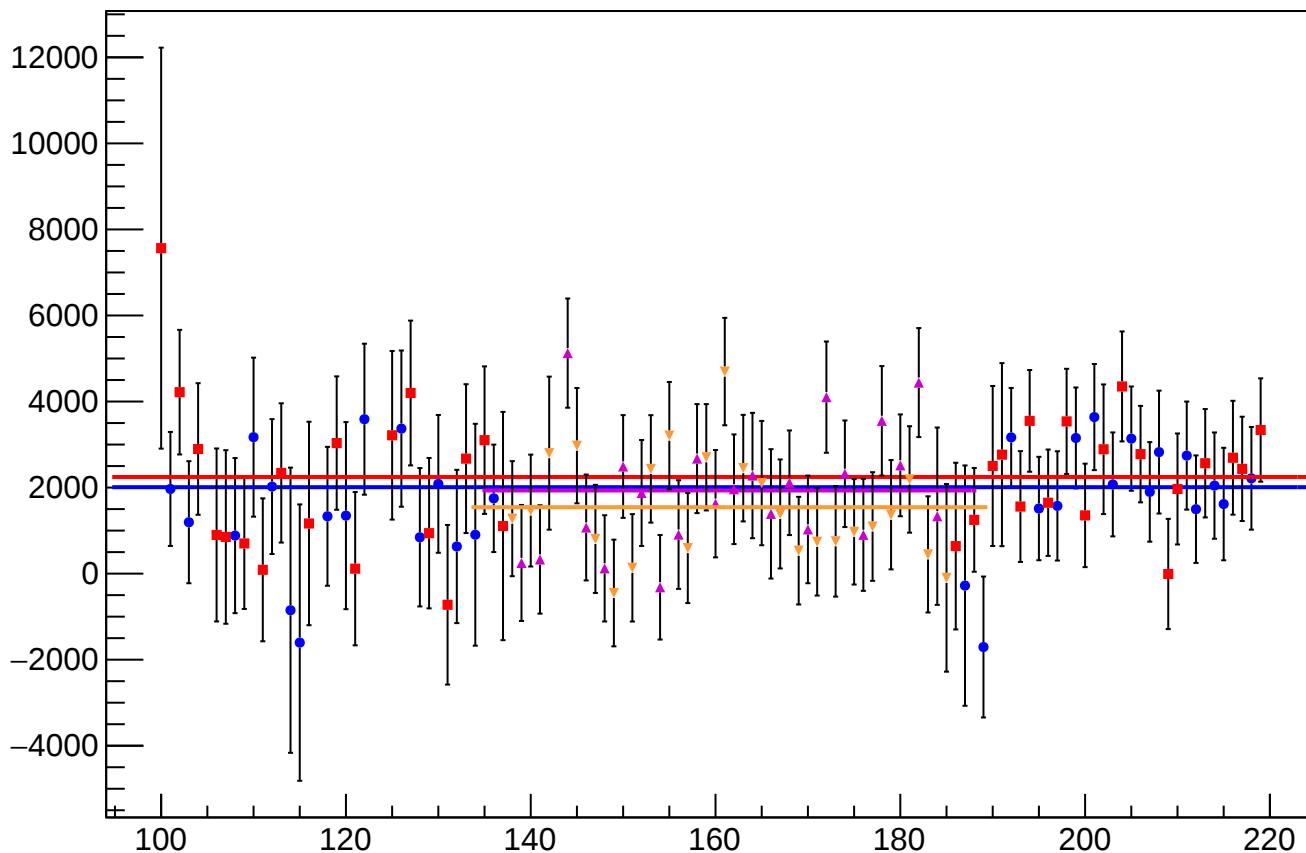
Right: 77.737 $\pm$ 0.015 χ^2/NDF : 13573281.0/66

In: 85.036 $\pm$ 0.012 χ^2/NDF : 7698938.5/54

Out: 86.312 $\pm$ 0.012 χ^2/NDF : 7261727.3/58

All: 85.673 $\pm$ 0.009 χ^2/NDF : 14965958.3/113

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 2009.214+/-256.951 χ^2/NDF : 17.8/31

Left Out: 1544.102+/-266.270 χ^2/NDF : 20.0/23

Right Out: 2246.753+/-249.943 χ^2/NDF : 26.2/35

Left In: 1933.000+/-268.006 χ^2/NDF : 27.0/22

Left: 1737.287+/-188.892 χ^2/NDF : 48.0/46

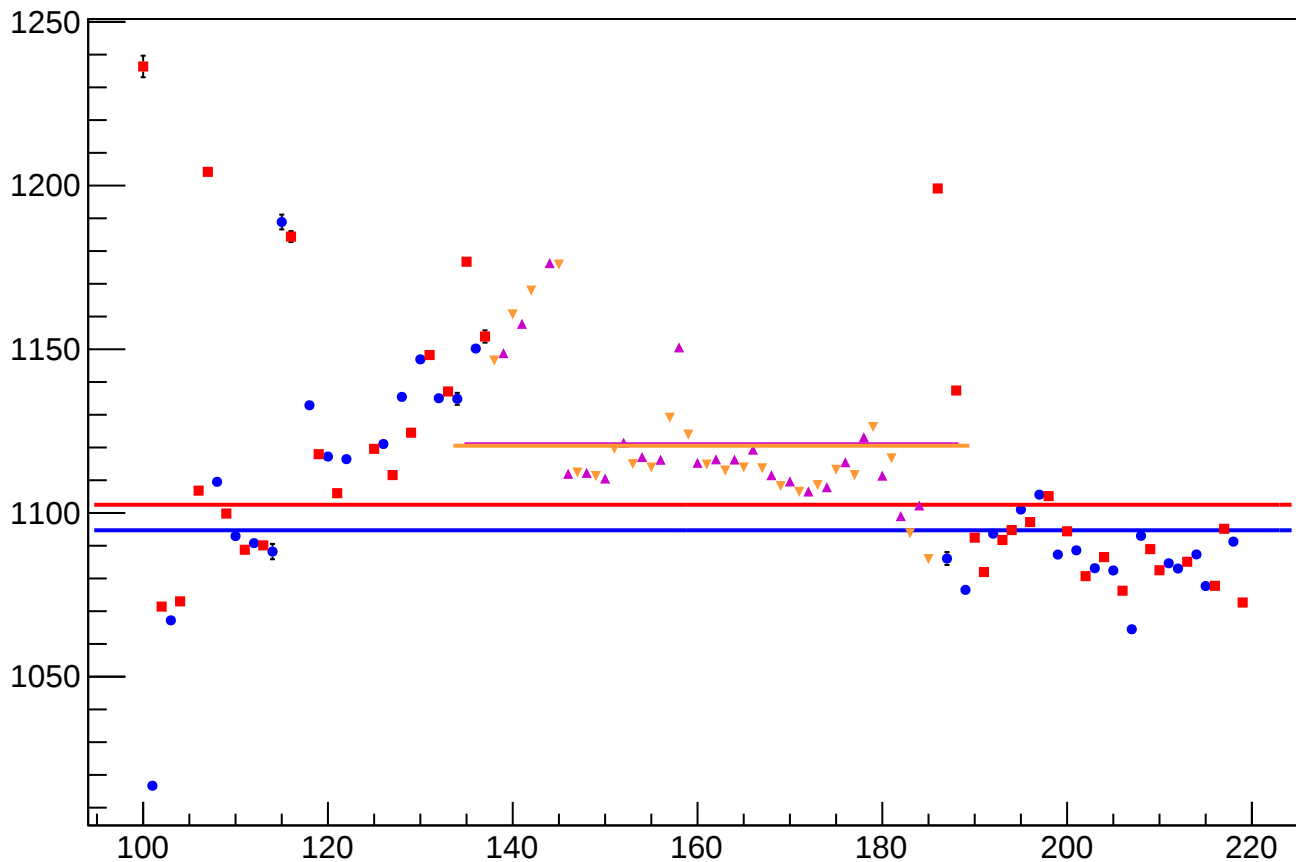
Right: 2131.267+/-179.163 χ^2/NDF : 44.4/67

In: 1972.711+/-185.477 χ^2/NDF : 44.8/54

Out: 1917.629+/-182.235 χ^2/NDF : 49.9/59

All: 1944.684+/-129.991 χ^2/NDF : 94.8/114

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1094.718 $\pm$ 0.182 χ^2 /NDF: 23582.7/31

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

Right Out: 1102.511 $\pm$ 0.177 χ^2 /NDF: 30496.5/35

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

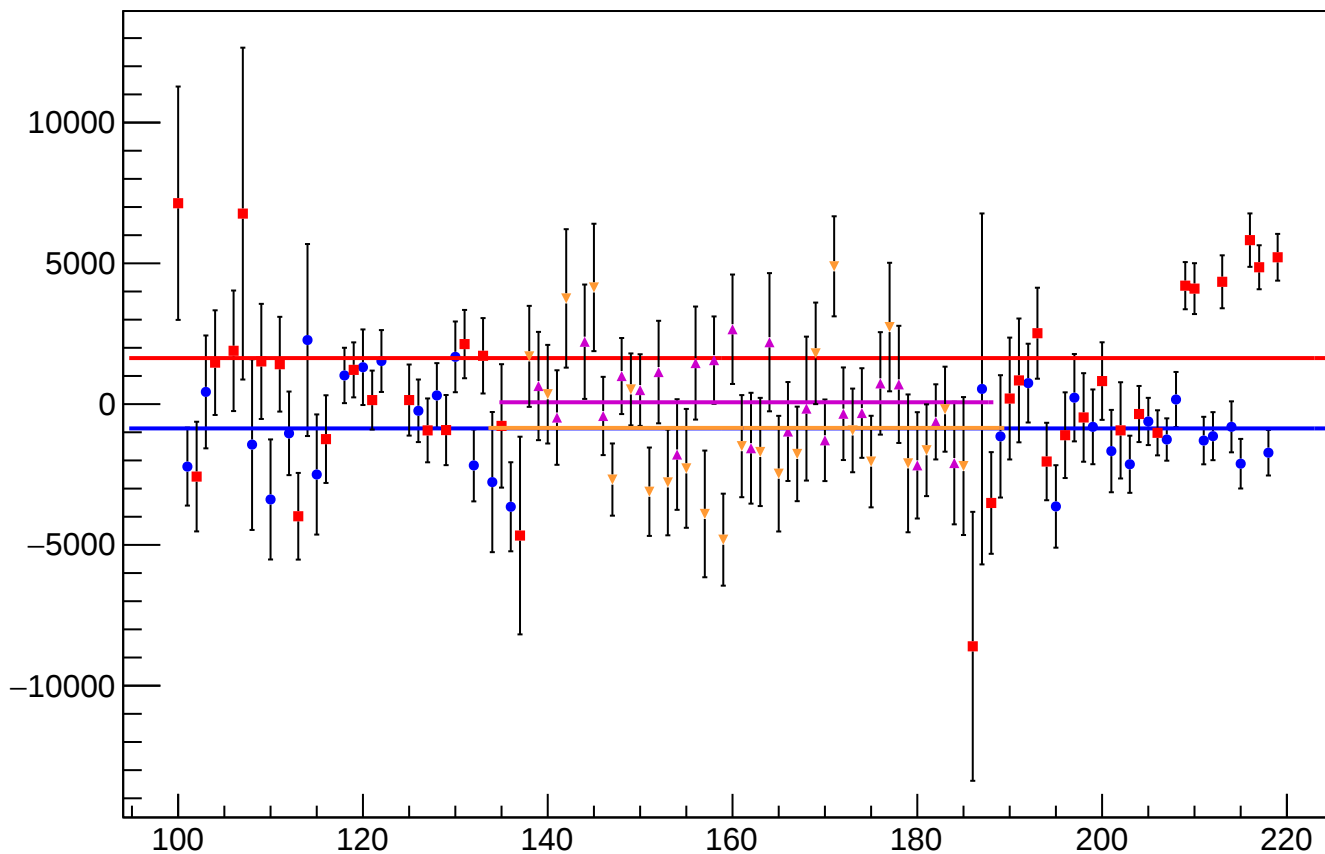
Right: 1098.722 $\pm$ 0.127 χ^2 /NDF: 55024.6/67

In: 1107.301 $\pm$ 0.131 χ^2 /NDF:43239.2/54

Out: 1110.957 $\pm$ 0.129 χ^2 /NDF:45625.0/59

All: 1109.162 $\pm$ 0.092 χ^2 /NDF: 89259.6/114

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -862.870 $\pm$ 211.567 χ^2/NDF : 37.8/31

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

Right Out: 1635.145 $\pm$ 214.383 χ^2/NDF : 165.2/35

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

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

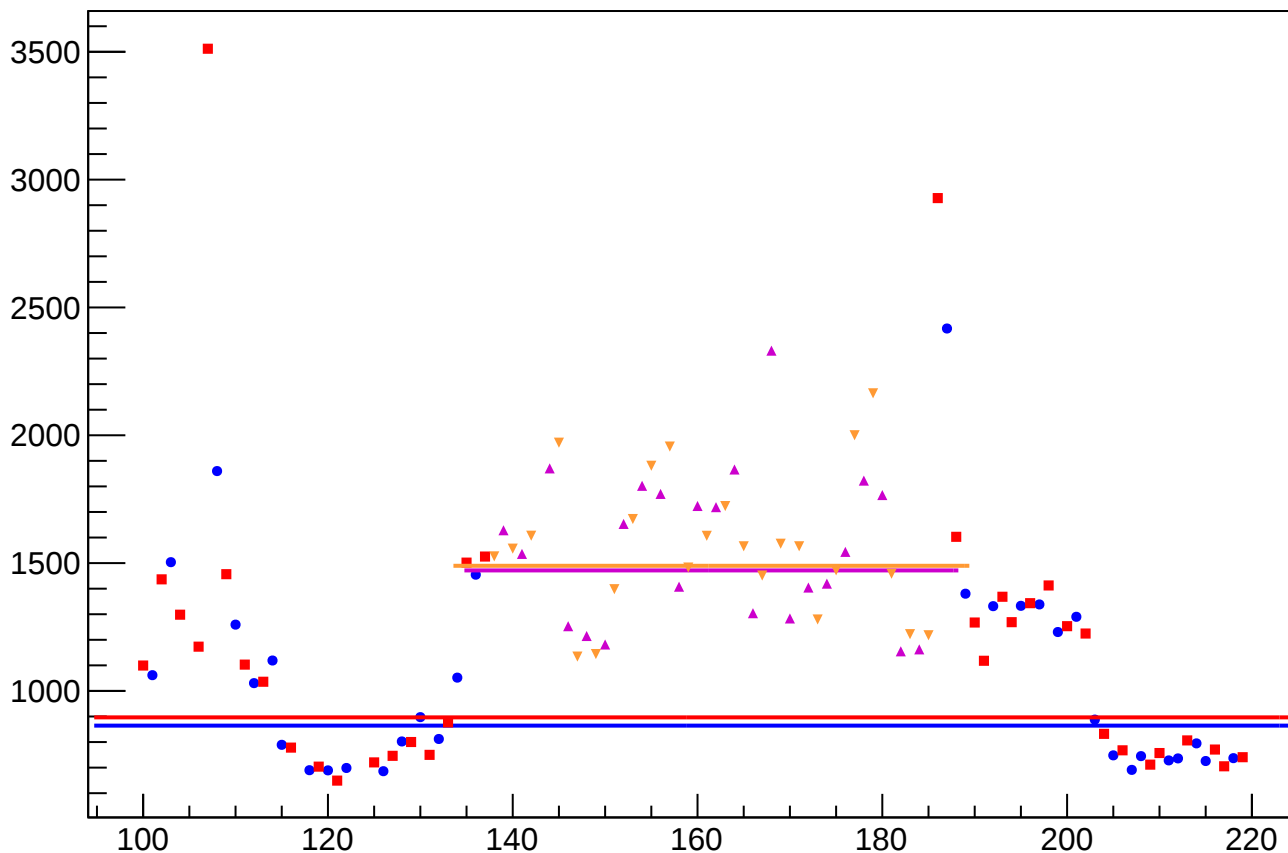
Right: 369.627 $\pm$ 150.586 χ^2/NDF : 271.8/67

In: -623.284 $\pm$ 182.242 χ^2/NDF :54.9/54

Out: 988.893 $\pm$ 184.348 χ^2/NDF :243.3/59

All: 173.544 $\pm$ 129.603 χ^2/NDF : 336.9/114

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 864.281+/-0.150 χ^2/NDF : 2618393.6/31

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

Right Out: 896.567+/-0.152 χ^2/NDF : 3517888.3/35

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

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

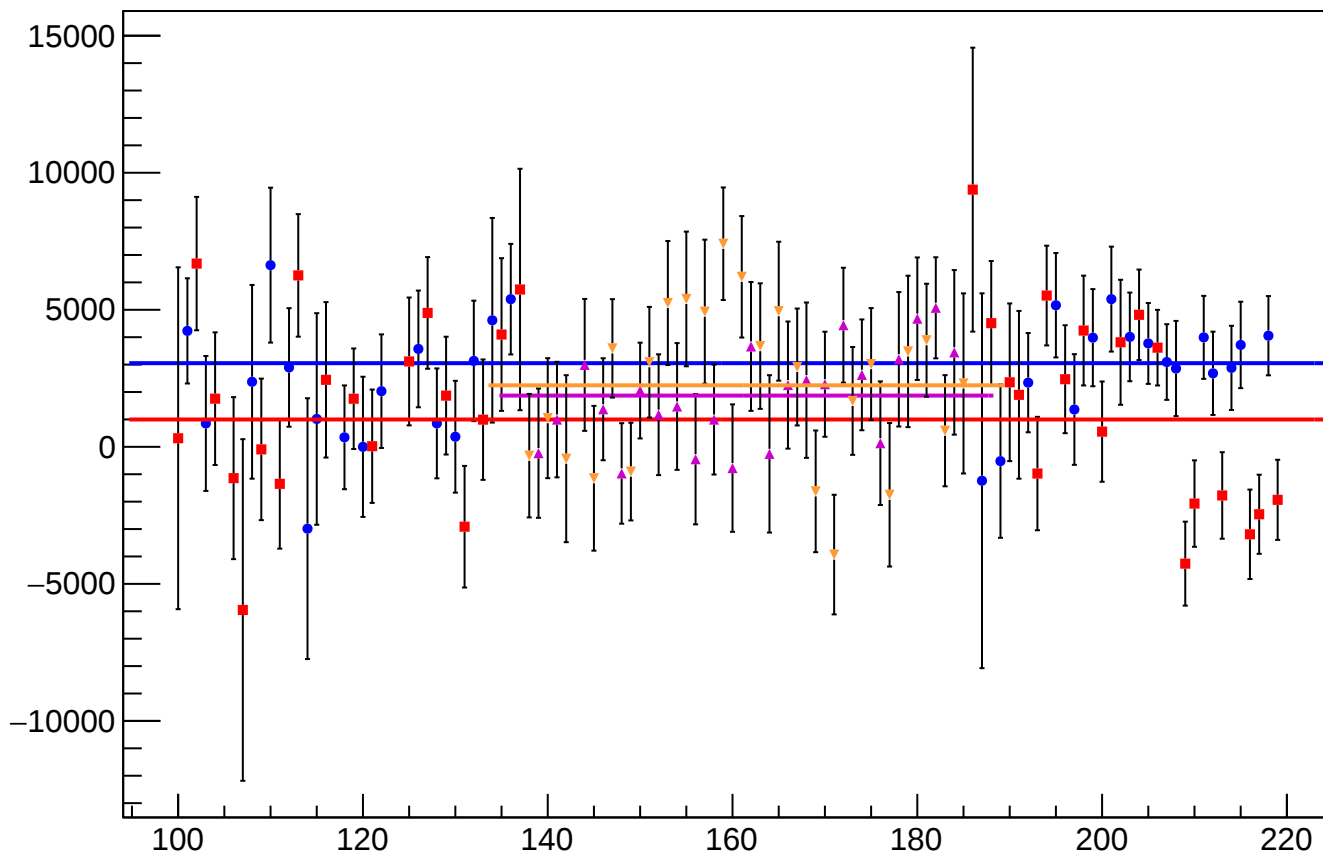
Right: 880.211+/-0.106 χ^2/NDF : 6159262.6/67

In: 1020.919+/-0.129 χ^2/NDF :7972833.0/54

Out: 1051.069+/-0.130 χ^2/NDF :8513646.1/59

All: 1035.821+/-0.092 χ^2/NDF : 16513535.2/118

asym_usl_mean vs Slug, Sign Corrected



Right In: 3052.158 $\pm$ 347.007 χ^2 /NDF: 20.5/31

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

Right Out: 997.915 $\pm$ 345.799 χ^2 /NDF: 86.0/35

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

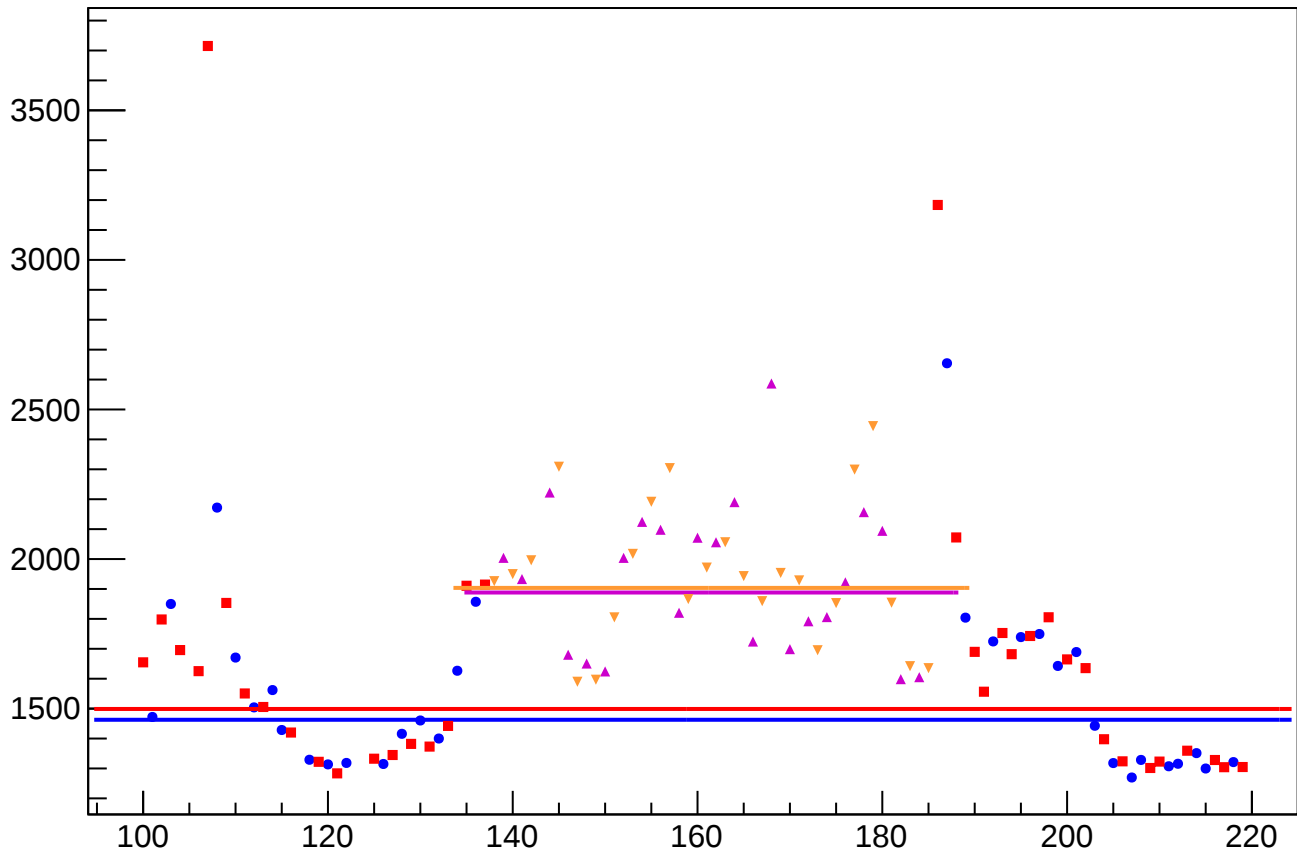
Right: 2021.455 $\pm$ 244.943 χ^2 /NDF: 124.1/67

In: 2617.911 $\pm$ 276.024 χ^2 /NDF:39.7/54

Out: 1452.418 $\pm$ 275.638 χ^2 /NDF:129.3/59

All: 2034.348 $\pm$ 195.042 χ^2 /NDF: 177.9/114

asym_usl_rms vs Slug, Sign Corrected



Right In: 1462.741 $\pm$ 0.245 χ^2 /NDF: 686591.3/31

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

Right Out: 1498.878 $\pm$ 0.245 χ^2 /NDF: 1186257.5/35

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

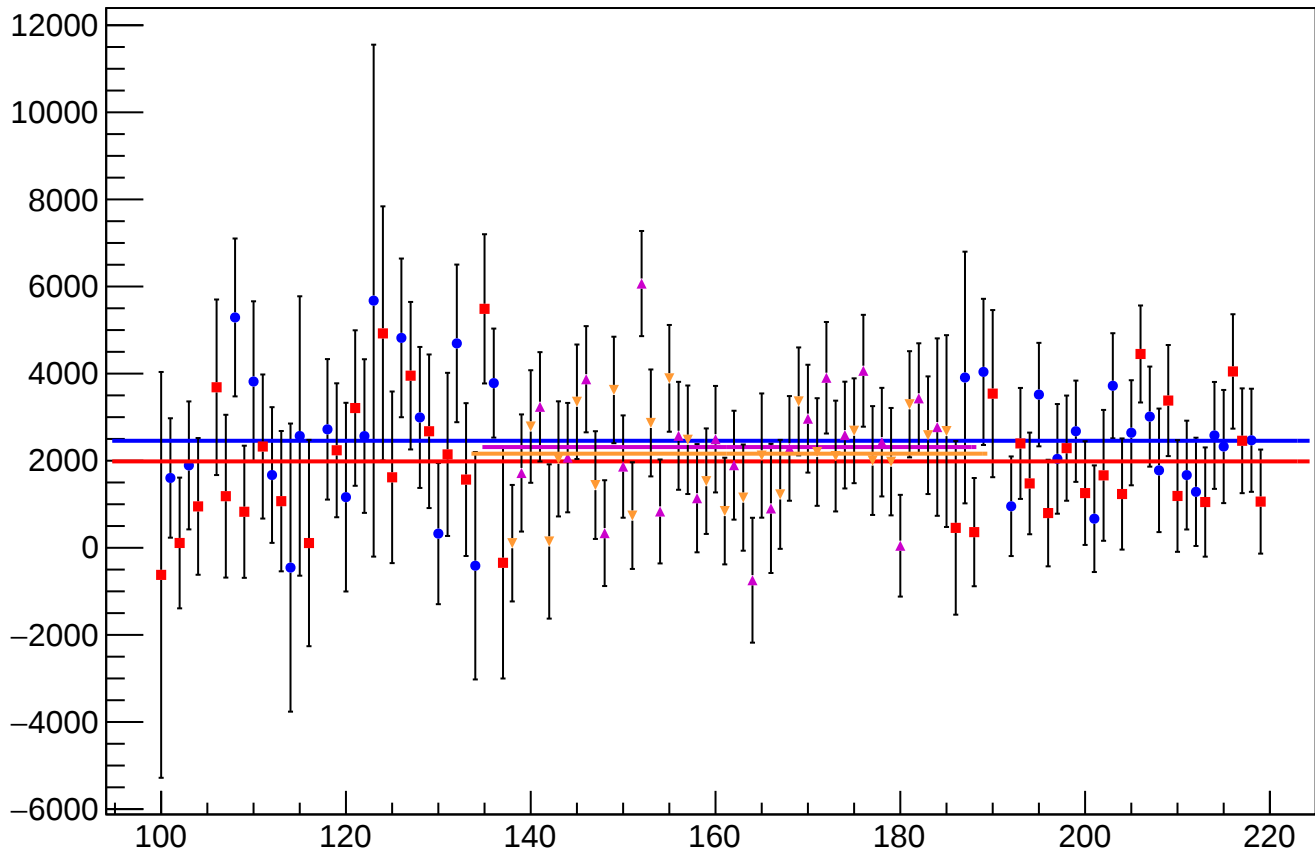
Right: 1480.873 $\pm$ 0.173 χ^2 /NDF: 1883731.7/67

In: 1618.970 $\pm$ 0.195 χ^2 /NDF: 2294968.1/54

Out: 1646.442 $\pm$ 0.195 χ^2 /NDF: 2646894.8/59

All: 1632.726 $\pm$ 0.138 χ^2 /NDF: 4951782.6/11

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2457.558 $\pm$ 256.785 χ^2/NDF : 21.4/32

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

Right Out: 1984.123 $\pm$ 250.496 χ^2/NDF : 28.1/35

Left In: 2313.505 $\pm$ 264.429 χ^2/NDF : 31.3/22

Left: 2235.453 $\pm$ 184.488 χ^2/NDF : 46.5/47

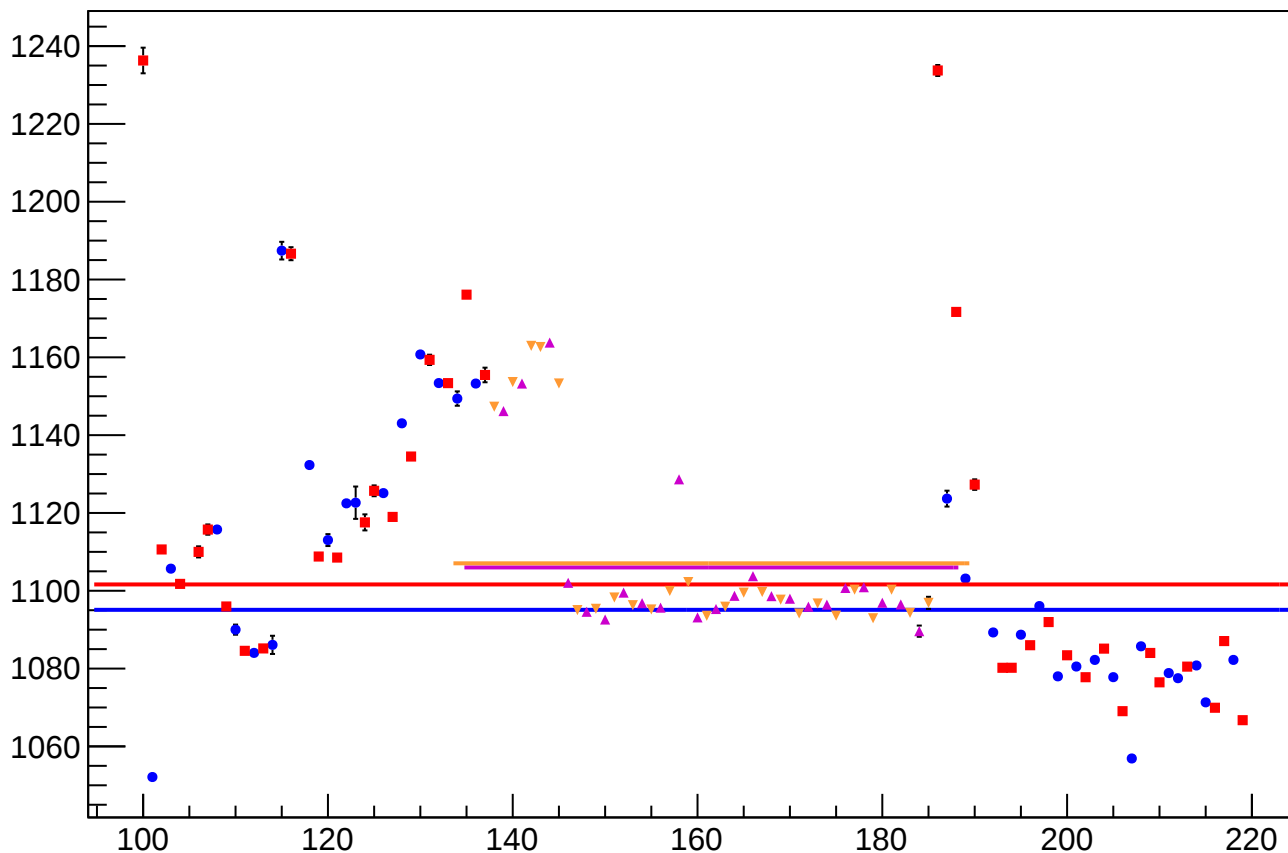
Right: 2214.972 $\pm$ 179.310 χ^2/NDF : 51.3/68

In: 2387.644 $\pm$ 184.218 χ^2/NDF : 52.9/55

Out: 2070.325 $\pm$ 179.559 χ^2/NDF : 43.4/60

All: 2224.921 $\pm$ 128.583 χ^2/NDF : 97.8/116

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1095.101+/-0.182 χ^2/NDF : 24596.5/32

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

Right Out: 1101.628+/-0.177 χ^2/NDF : 39579.0/35

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

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

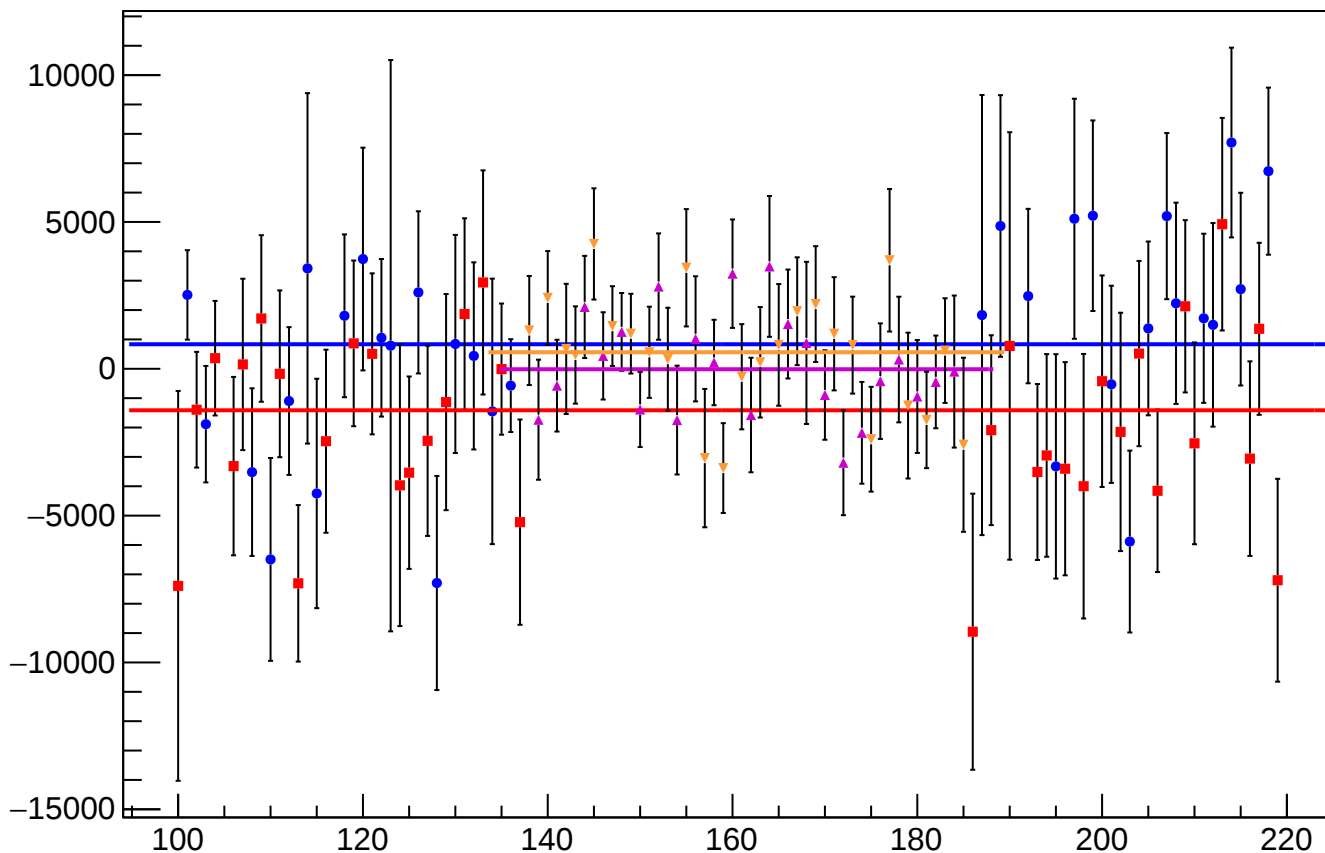
Right: 1098.445+/-0.127 χ^2/NDF : 64837.5/68

In: 1100.389+/-0.130 χ^2/NDF :37895.4/55

Out: 1104.267+/-0.127 χ^2/NDF :55211.3/60

All: 1102.378+/-0.091 χ^2/NDF : 93561.3/116

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: 835.624 ± 515.874 $\chi^2/\text{NDF}: 41.5/32$

Left Out: 563.282 ± 360.901 $\chi^2/\text{NDF}: 26.8/24$

Right Out: -1413.442 ± 520.634 $\chi^2/\text{NDF}: 28.7/35$

Left In: -15.520 ± 366.854 $\chi^2/\text{NDF}: 20.1/22$

Left: 278.615 ± 257.275 $\chi^2/\text{NDF}: 48.2/47$

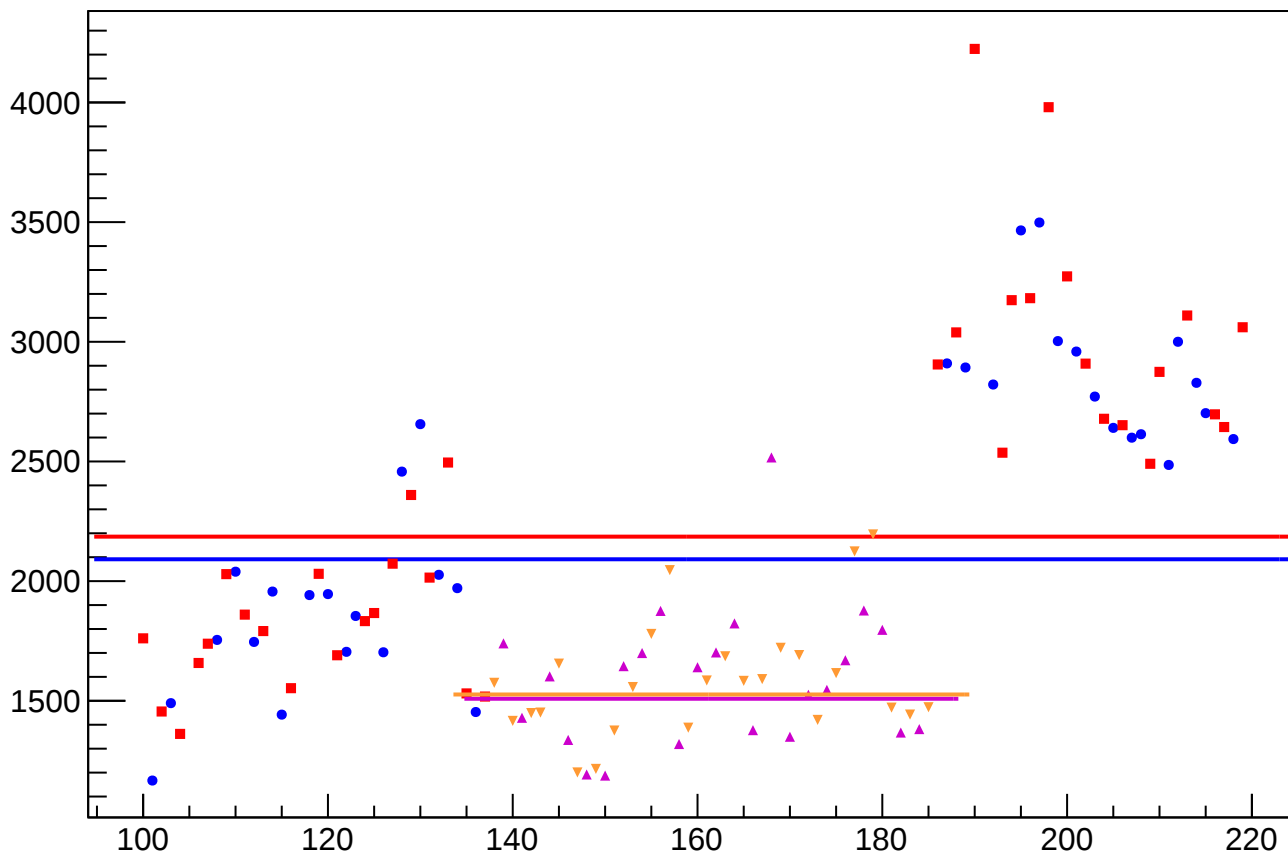
Right: -278.580 ± 366.449 $\chi^2/\text{NDF}: 79.6/68$

In: 270.346 ± 298.967 $\chi^2/\text{NDF}: 63.5/55$

Out: -78.287 ± 296.607 $\chi^2/\text{NDF}: 65.2/60$

All: 94.648 ± 210.562 $\chi^2/\text{NDF}: 129.3/116$

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 2091.333+/-0.365

χ^2/NDF : 3211988.4/32

Left: 1517.632+/-0.182

χ^2/NDF : 1687794.7/47

Left Out: 1526.391+/-0.255

χ^2/NDF : 753714.4/24

Right: 2138.196+/-0.259

χ^2/NDF : 6334867.5/68

Right Out: 2185.928+/-0.368

χ^2/NDF : 3089564.0/35

In: 1704.305+/-0.211

χ^2/NDF : 5838671.5/55

Out: 1740.452+/-0.210

χ^2/NDF : 6011123.0/60

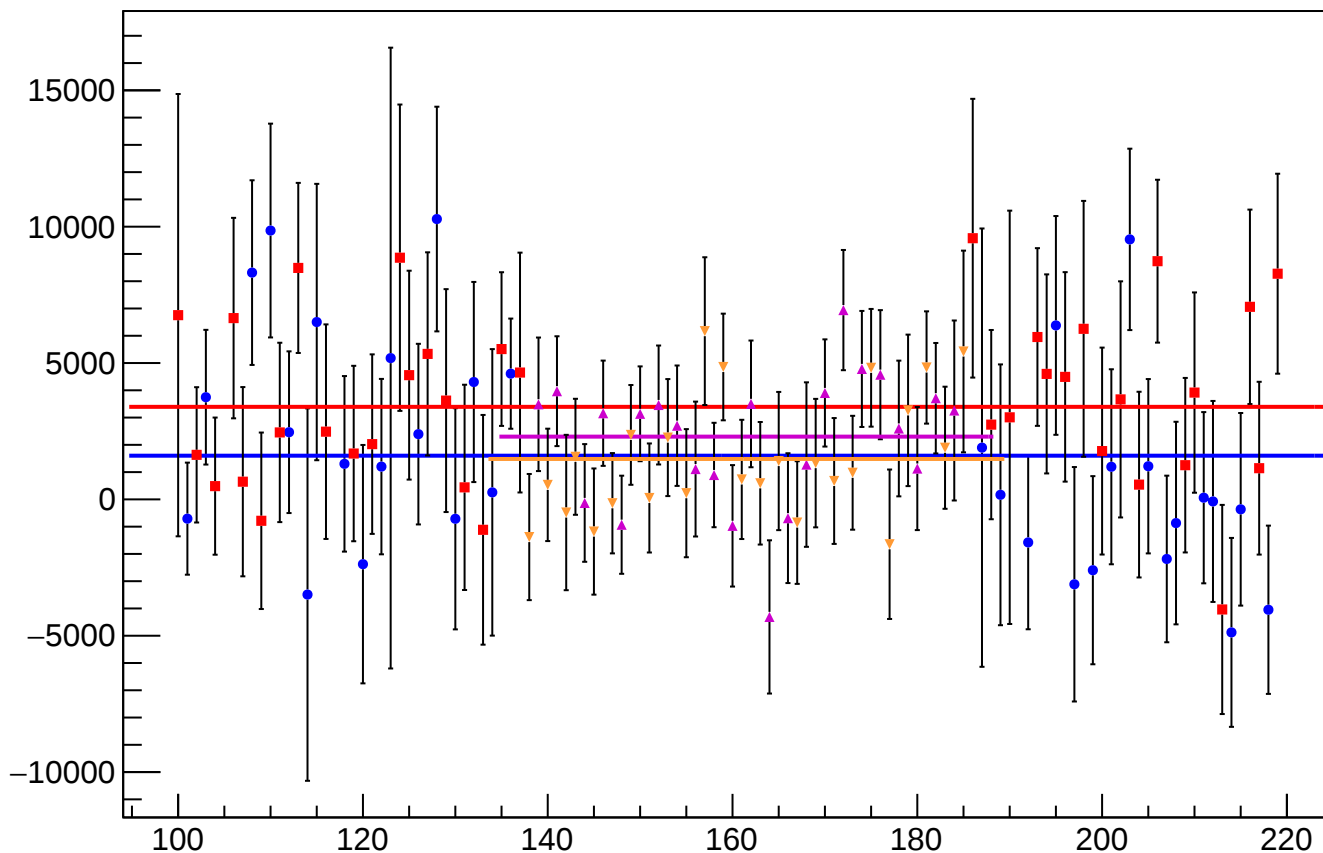
Left In: 1508.581+/-0.259

χ^2/NDF : 931684.8/22

All: 1722.521+/-0.149

χ^2/NDF : 11864528.7/13

asym_usr_mean vs Slug, Sign Corrected



Right In: 1602.084 $\pm$ 598.170 χ^2 /NDF: 41.1/32

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

Right Out: 3393.531 $\pm$ 596.693 χ^2 /NDF: 26.4/35

Left In: 2301.247 $\pm$ 459.040 χ^2 /NDF:24.8/22

Left: 1883.648 $\pm$ 321.340 χ^2 /NDF: 47.4/47

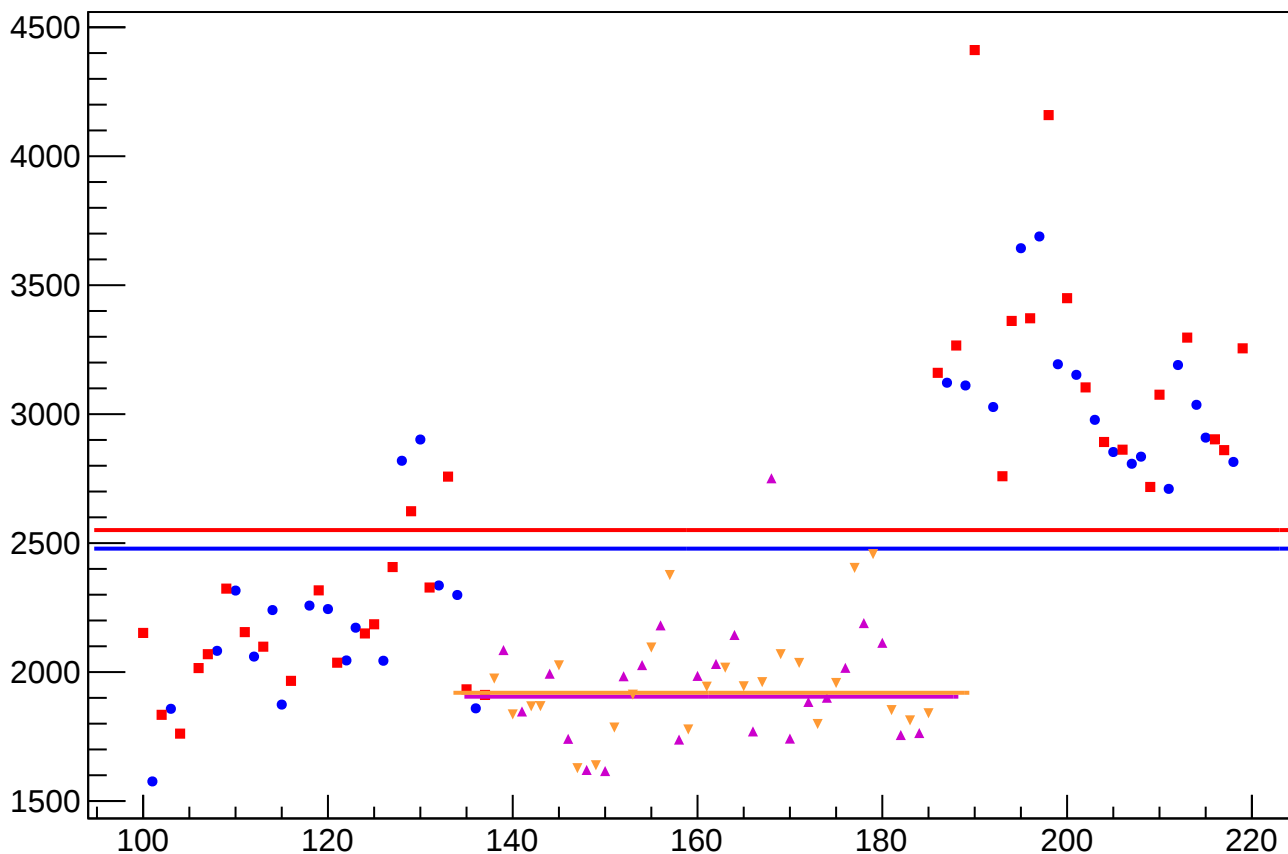
Right: 2500.021 $\pm$ 422.447 χ^2 /NDF: 71.9/68

In: 2042.110 $\pm$ 364.167 χ^2 /NDF:66.7/55

Out: 2175.226 $\pm$ 359.273 χ^2 /NDF:53.9/60

All: 2109.568 $\pm$ 255.757 χ^2 /NDF: 120.7/116

asym_usr_rms vs Slug, Sign Corrected



Right In: 2478.616 $\pm$ 0.423 χ^2 /NDF: 1826355.2/32

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

Right Out: 2550.559 $\pm$ 0.422 χ^2 /NDF: 1905064.0/35

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

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

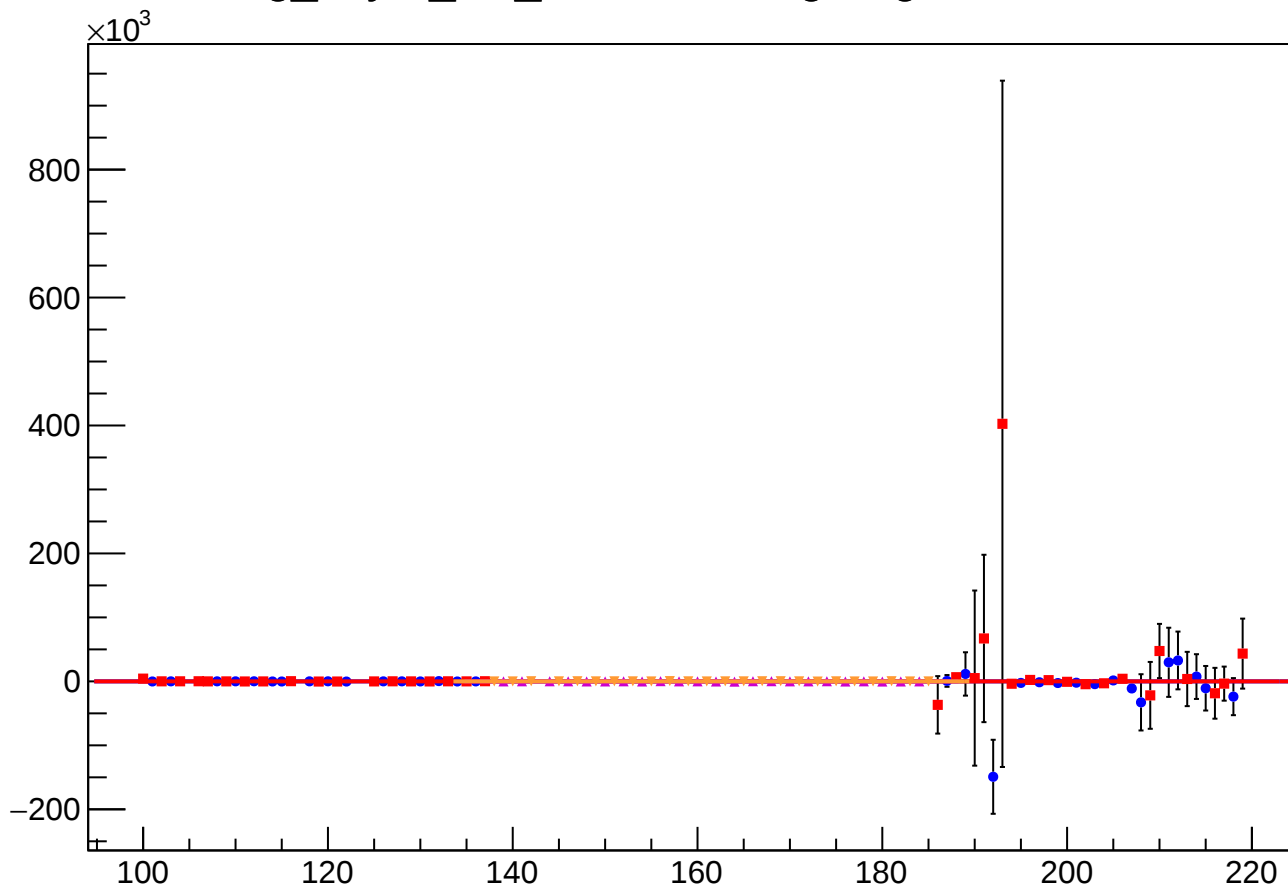
Right: 2514.676 $\pm$ 0.299 χ^2 /NDF: 3745920.4/68

In: 2117.371 $\pm$ 0.258 χ^2 /NDF: 3432710.0/55

Out: 2148.427 $\pm$ 0.254 χ^2 /NDF: 3696254.0/60

All: 2133.109 $\pm$ 0.181 χ^2 /NDF: 7136335.3/11

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.385 ± 36.762 χ^2/NDF : 33.7/31

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

Right Out: 1.854 ± 36.747 χ^2/NDF : 21.8/35

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

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

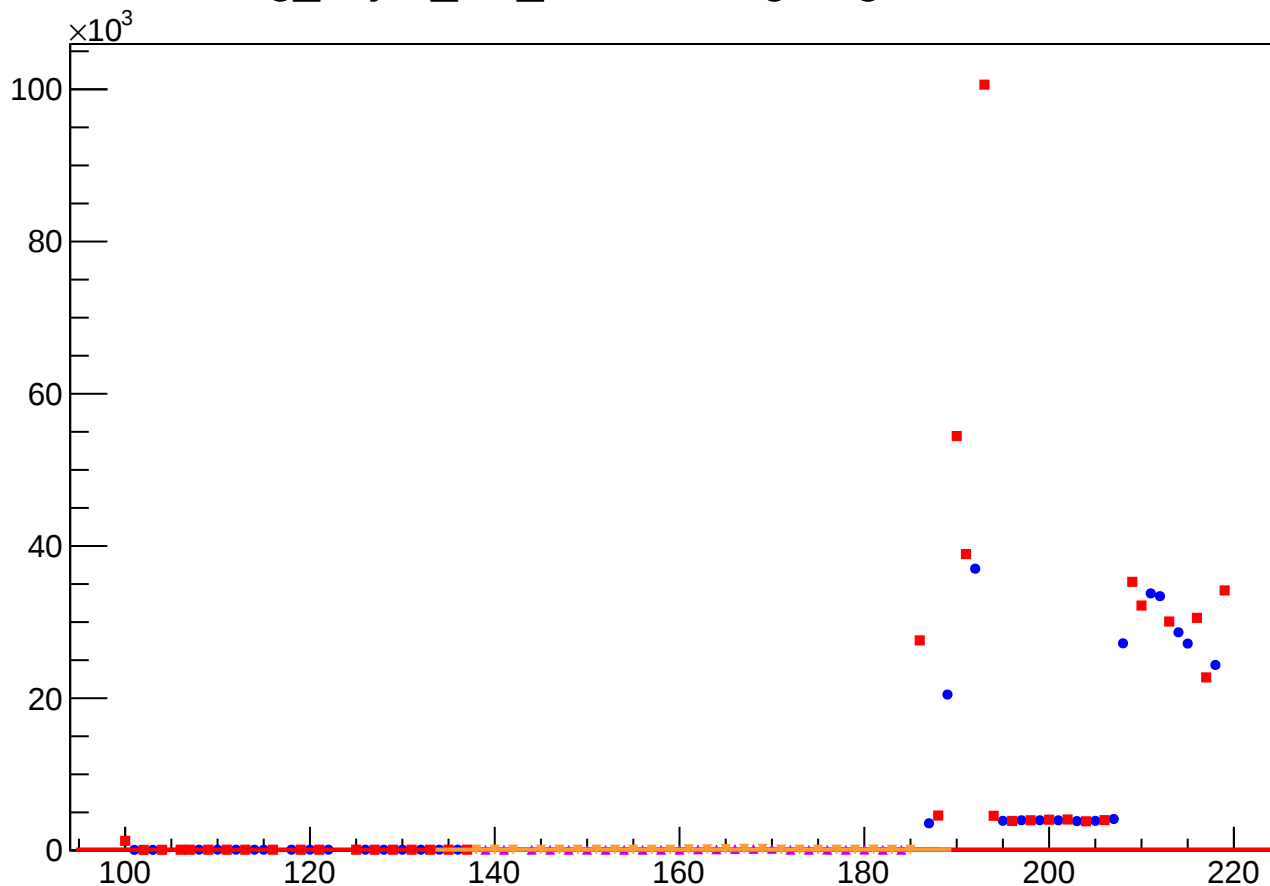
Right: -0.264 ± 25.989 χ^2/NDF : 55.4/67

In: 15.568 ± 21.413 χ^2/NDF : 70.4/54

Out: 8.742 ± 21.365 χ^2/NDF : 57.7/59

All: 12.147 ± 15.124 χ^2/NDF : 128.2/114

reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.193 $\pm$ 0.026 χ^2 /NDF: 19410218.6/31

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

Right Out: 98.378 $\pm$ 0.026 χ^2 /NDF: 18970059.7/35

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

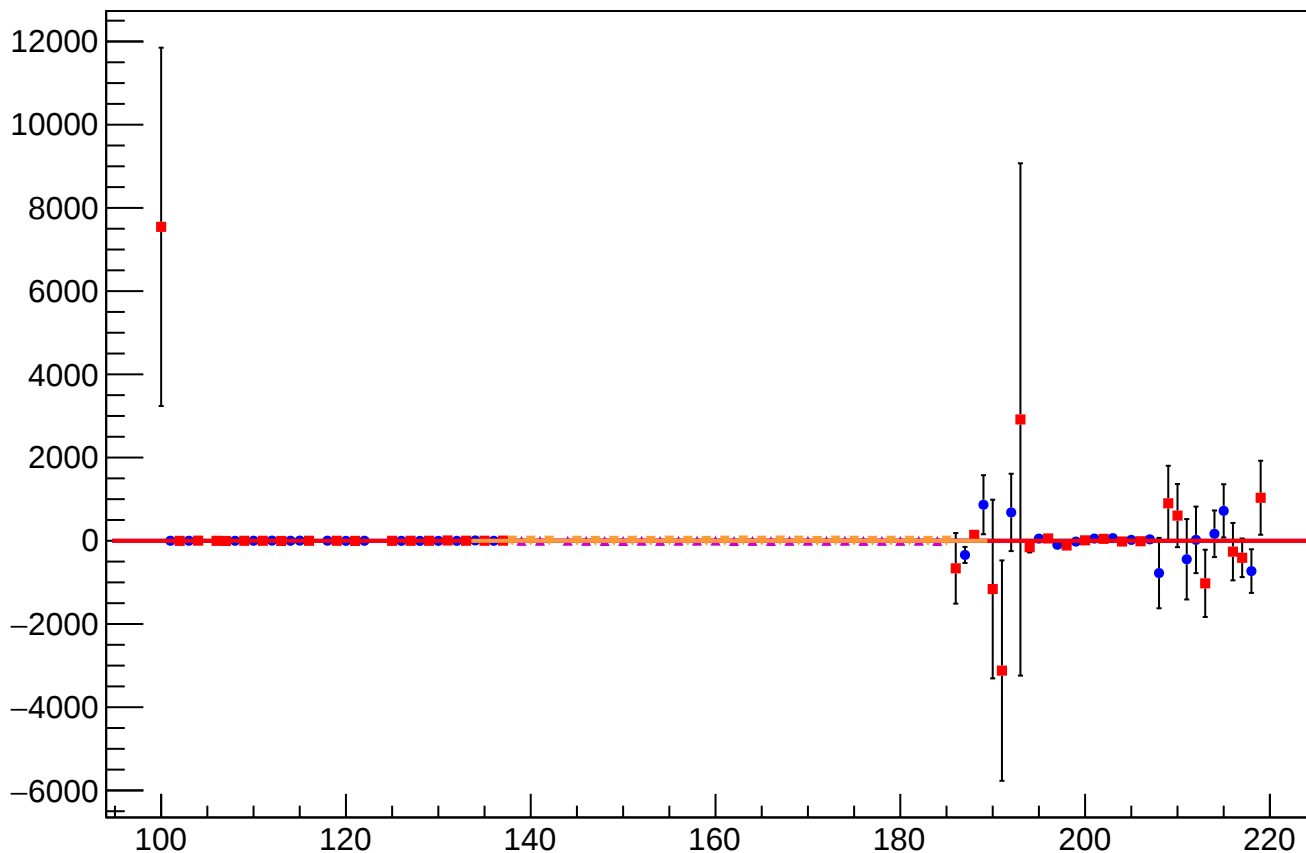
Right: 97.286 $\pm$ 0.018 χ^2 /NDF: 38383811.2/67

In: 103.778 $\pm$ 0.015 χ^2 /NDF: 21030098.2/54

Out: 104.787 $\pm$ 0.015 χ^2 /NDF: 20496936.4/59

All: 104.283 $\pm$ 0.011 χ^2 /NDF: 41529259.7/11

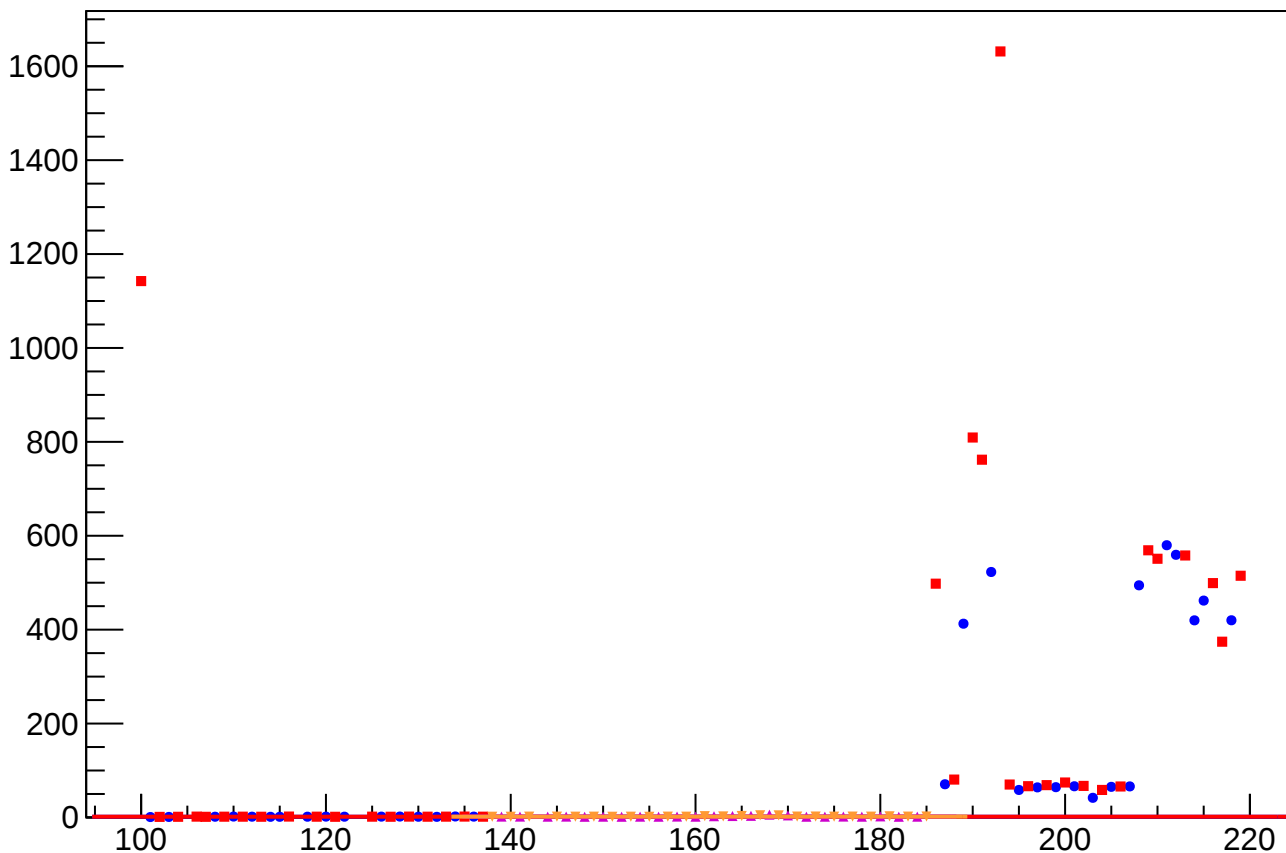
asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.397 ± 0.617 $\chi^2/\text{NDF}: 23.8/31$
Left Out: -0.534 ± 0.475 $\chi^2/\text{NDF}: 30.5/23$
Right Out: -0.347 ± 0.644 $\chi^2/\text{NDF}: 35.2/35$
Left In: -0.067 ± 0.485 $\chi^2/\text{NDF}: 25.0/22$

Left: -0.306 ± 0.339 $\chi^2/\text{NDF}: 56.0/46$
Right: 0.041 ± 0.445 $\chi^2/\text{NDF}: 59.6/67$
In: 0.110 ± 0.381 $\chi^2/\text{NDF}: 49.1/54$
Out: -0.468 ± 0.382 $\chi^2/\text{NDF}: 65.8/59$
All: -0.178 ± 0.270 $\chi^2/\text{NDF}: 116.0/114$

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.452+/-0.000 χ^2/NDF : 16884456.6/31

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

Right Out: 1.587+/-0.000 χ^2/NDF : 16728623.8/35

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

Left: 1.787 ± 0.000 χ^2/NDF : 3525124.6/46

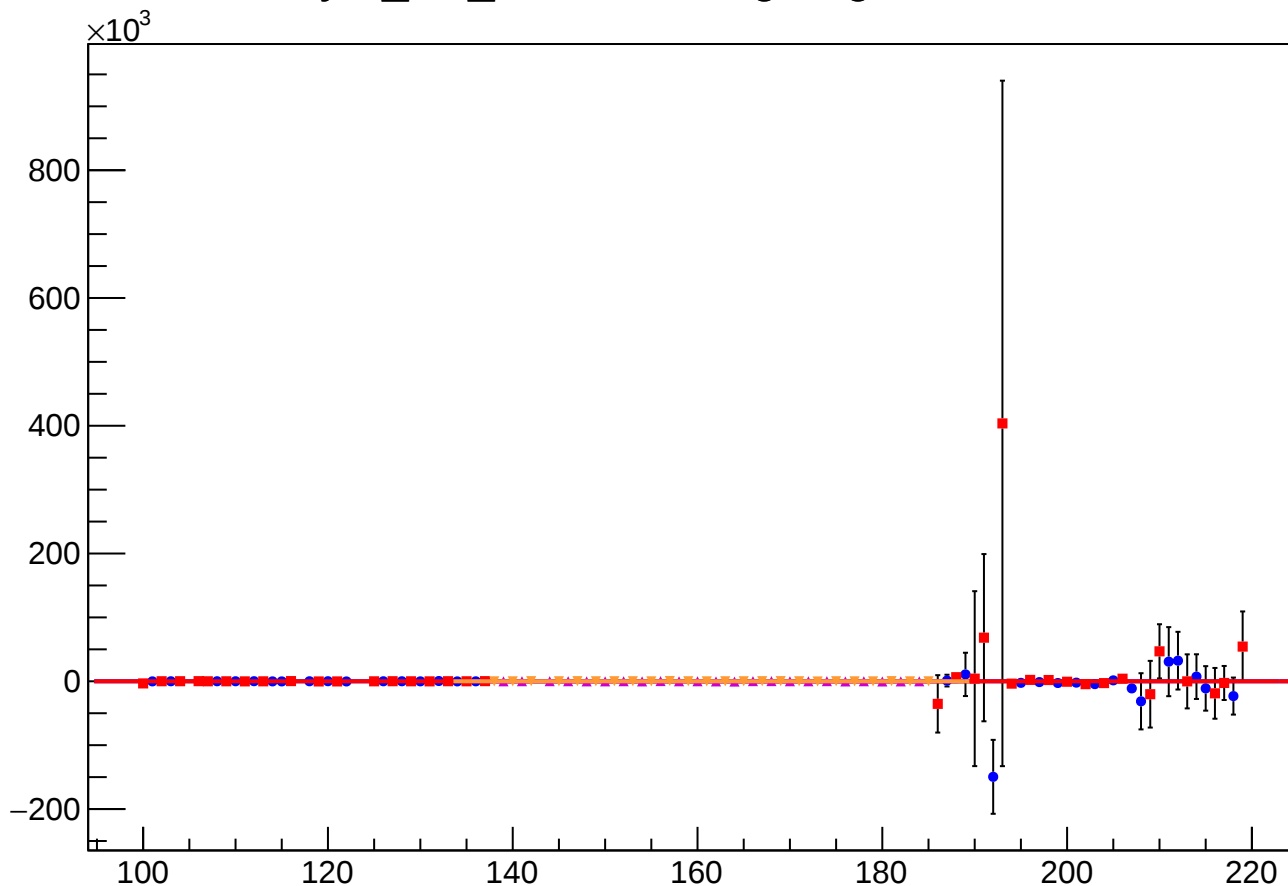
Right: 1.516+/-0.000 χ^2/NDF : 33658773.6/67

In: 1.669+/-0.000 χ^2/NDF :19204939.1/54

Out: 1.706+/-0.000 χ^2/NDF :18434737.8/59

All: 1.687+/-0.000 χ^2/NDF : 37649315.3/114

asym_dsl_mean vs Slug, Sign Corrected



Right In: -2.097 ± 36.771 χ^2/NDF : 33.9/31

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

Right Out: 1.623 ± 36.757 χ^2/NDF : 21.5/35

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

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

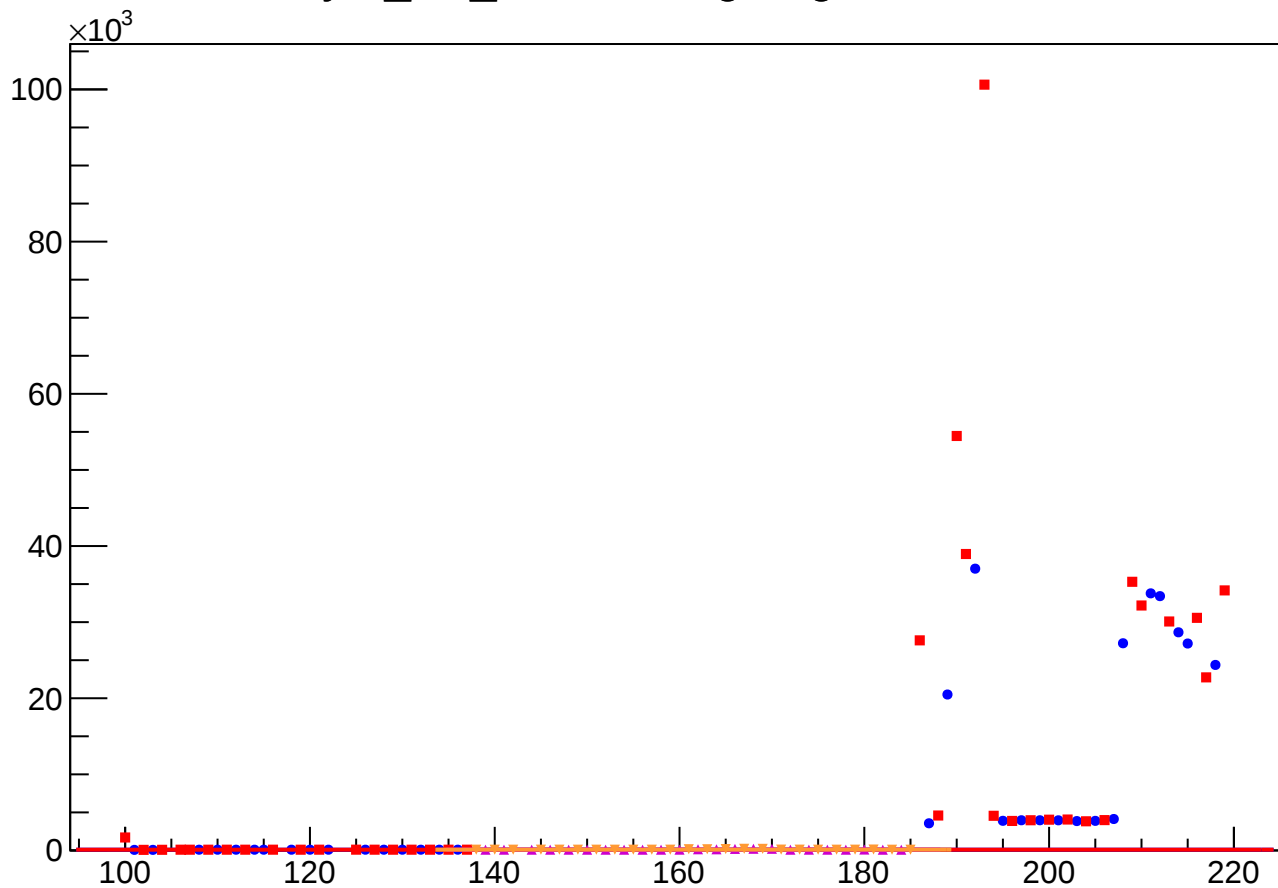
Right: -0.236 ± 25.996 χ^2/NDF : 55.4/67

In: 16.012 ± 21.419 χ^2/NDF : 70.0/54

Out: 9.119 ± 21.372 χ^2/NDF : 57.3/59

All: 12.558 ± 15.129 χ^2/NDF : 127.3/114

asym_dsl_rms vs Slug, Sign Corrected



Right In: 96.218 $\pm$ 0.026 χ^2/NDF : 19410201.3/31

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

Right Out: 98.387 $\pm$ 0.026 χ^2/NDF : 18975354.6/35

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

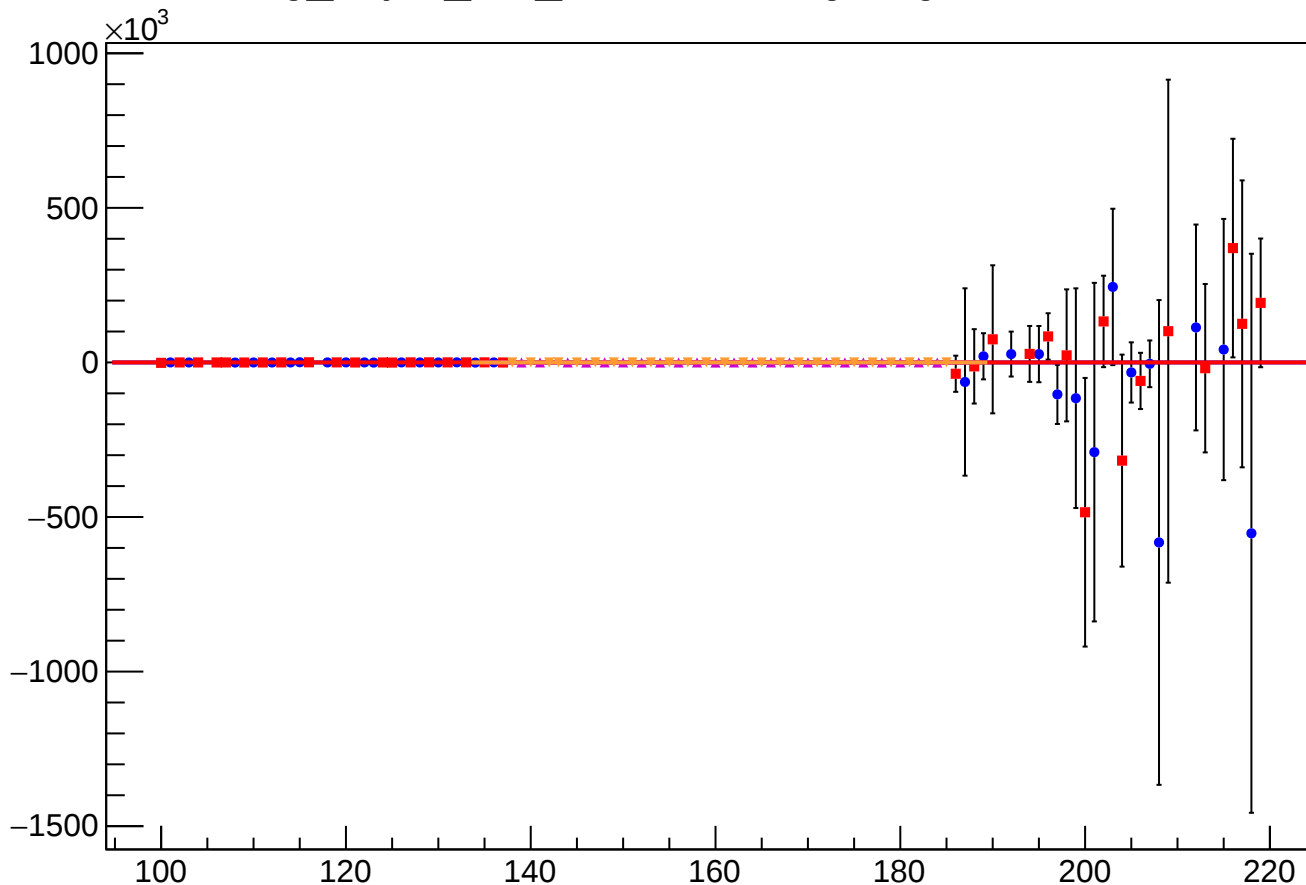
Right: 97.303 $\pm$ 0.018 χ^2/NDF : 38389037.3/67

In: 103.806 $\pm$ 0.015 χ^2/NDF : 21031447.7/54

Out: 104.810 $\pm$ 0.015 χ^2/NDF : 20503975.4/59

All: 104.309 $\pm$ 0.011 χ^2/NDF : 41537624.8/11

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.803 ± 46.841 $\chi^2/\text{NDF}: 18.4/30$

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

Right Out: 53.407 ± 47.775 $\chi^2/\text{NDF}: 22.7/33$

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

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

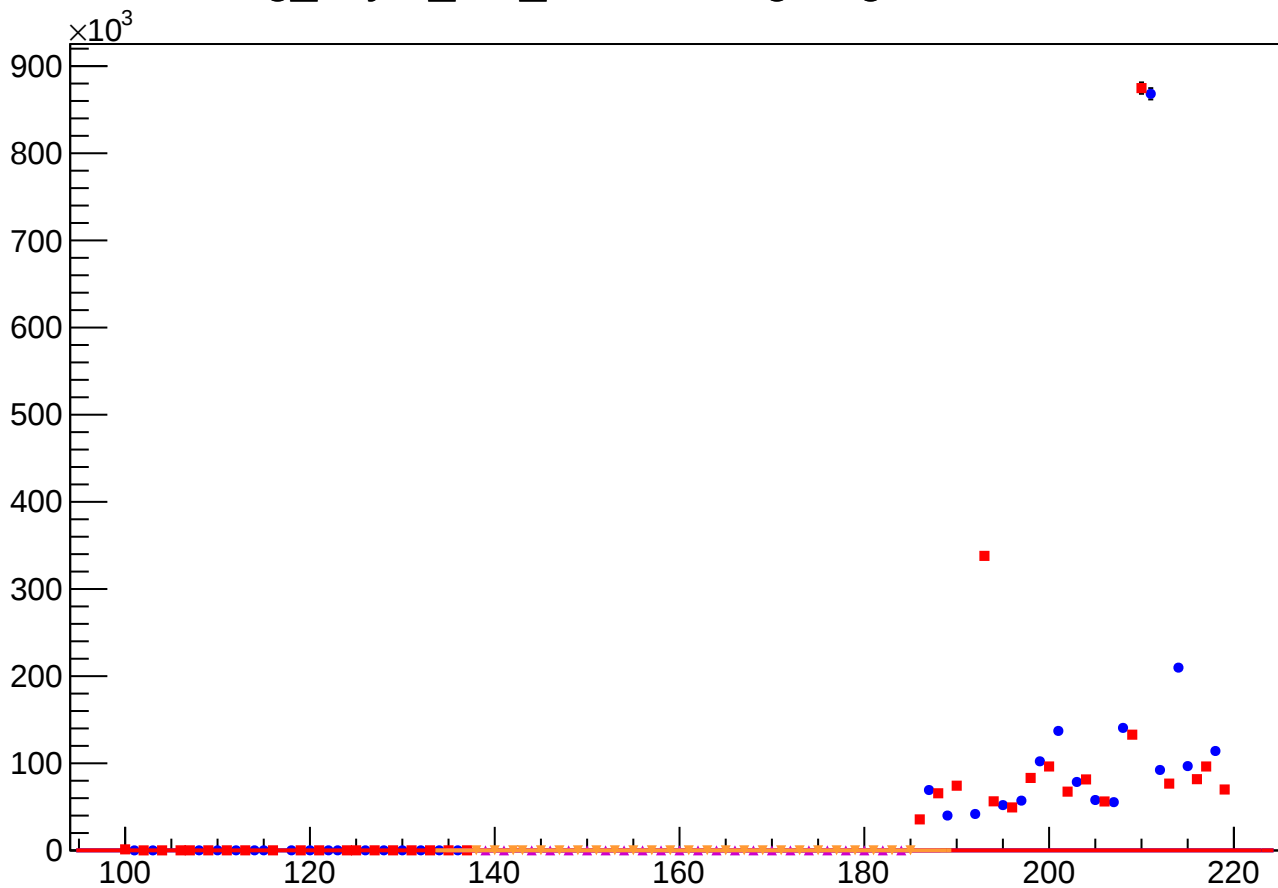
Right: 12.510 ± 33.447 $\chi^2/\text{NDF}: 42.5/64$

In: -52.583 ± 26.947 $\chi^2/\text{NDF}: 38.2/53$

Out: 7.740 ± 26.623 $\chi^2/\text{NDF}: 36.0/58$

All: -22.057 ± 18.939 $\chi^2/\text{NDF}: 76.7/112$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.884 $\pm$ 0.033 χ^2 /NDF: 7081065.8/32

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

Right Out: 124.849 $\pm$ 0.034 χ^2 /NDF: 7039142.2/35

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

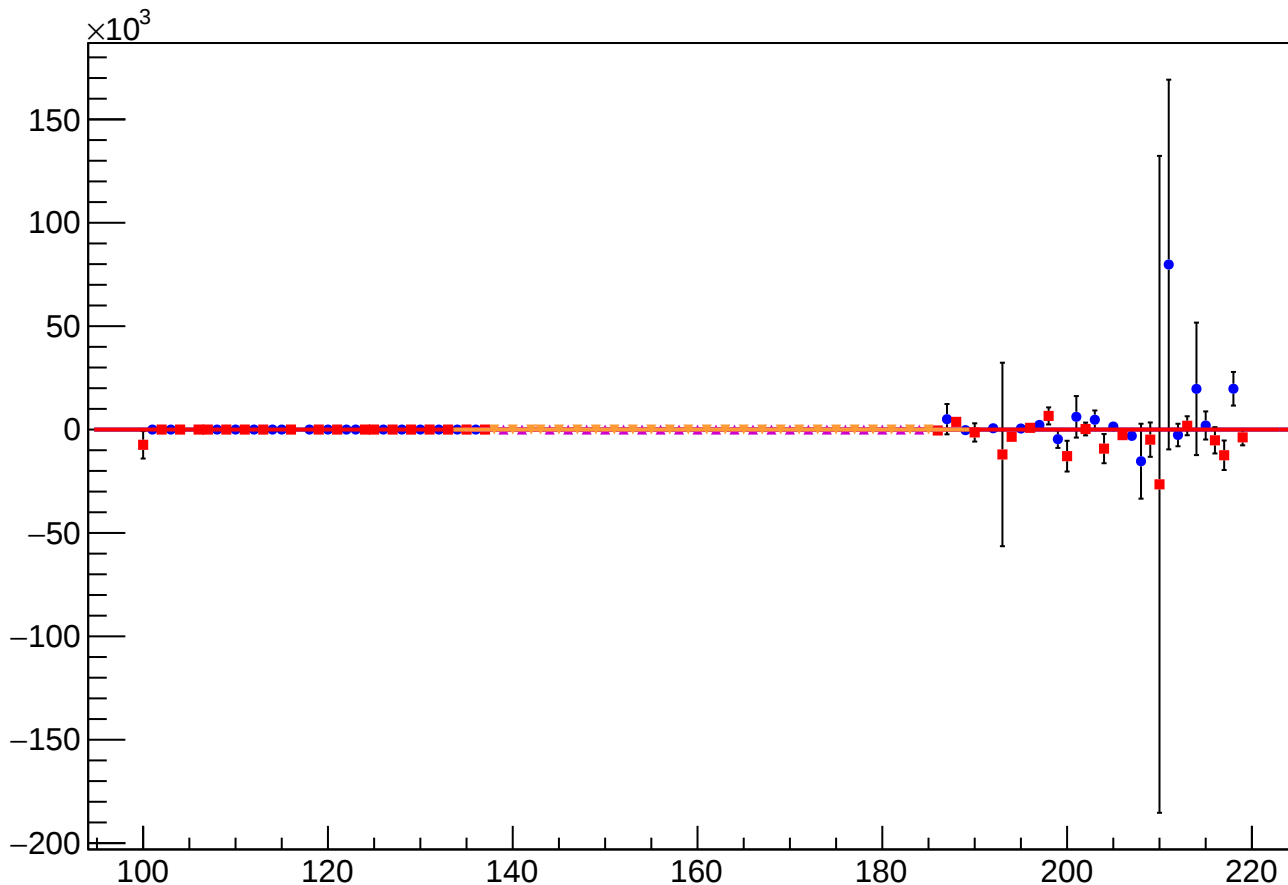
Right: 121.298 $\pm$ 0.024 χ^2 /NDF: 14141884.4/68

In: 131.212 $\pm$ 0.019 χ^2 /NDF: 7323546.5/55

Out: 133.817 $\pm$ 0.019 χ^2 /NDF: 7141804.3/60

All: 132.530 $\pm$ 0.013 χ^2 /NDF: 14474812.5/117

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.719 ± 0.810 χ^2/NDF : 31.4/32

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

Right Out: -0.639 ± 0.852 χ^2/NDF : 37.4/35

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

Left: 0.391 ± 0.407 χ^2/NDF : 49.7/47

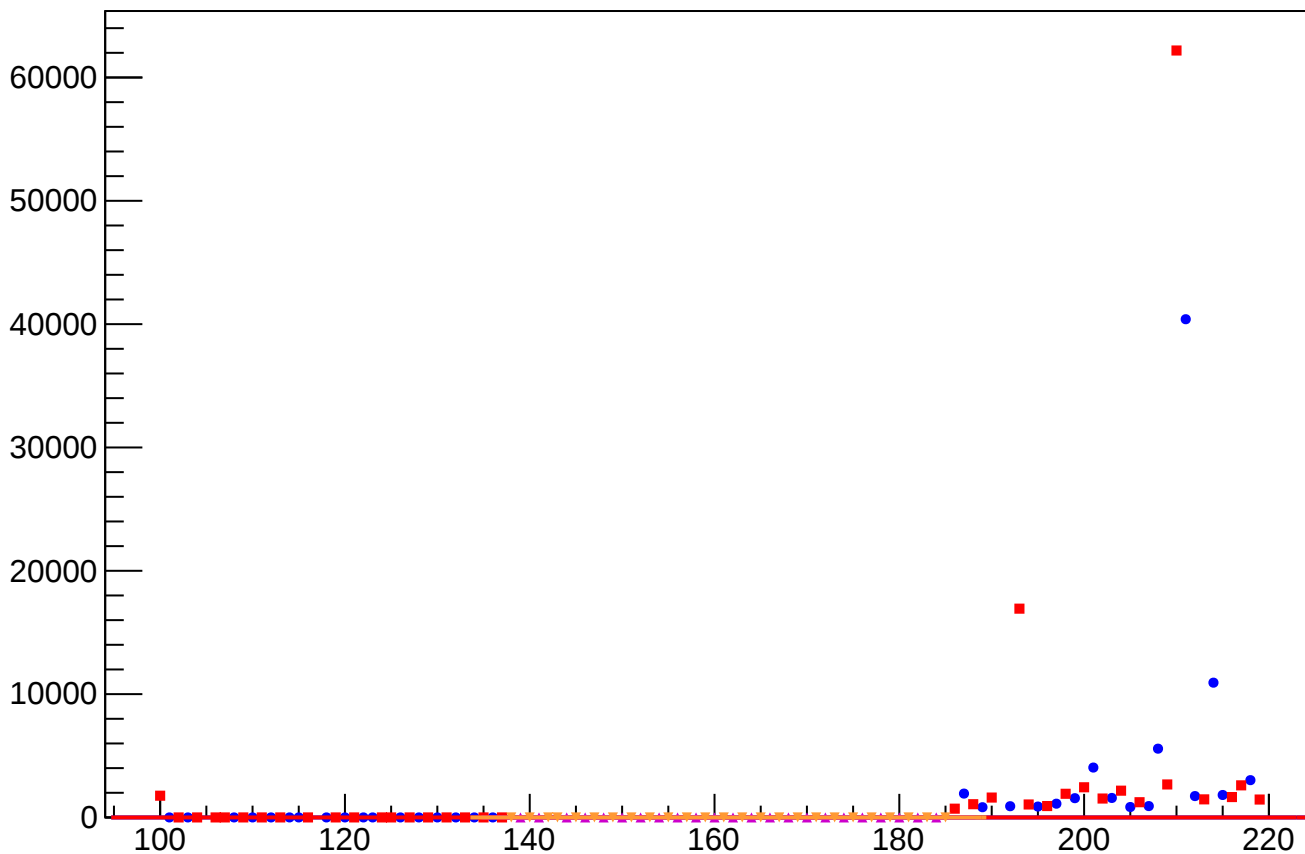
Right: -0.681 ± 0.587 χ^2/NDF : 68.8/68

In: -0.052 ± 0.471 χ^2/NDF : 53.1/55

Out: 0.139 ± 0.475 χ^2/NDF : 67.6/60

All: 0.043 ± 0.334 χ^2/NDF : 120.7/116

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.867 $\pm$ 0.001 χ^2/NDF : 7083962.4/32

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

Right Out: 2.065 $\pm$ 0.001 χ^2/NDF : 7474283.6/35

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

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

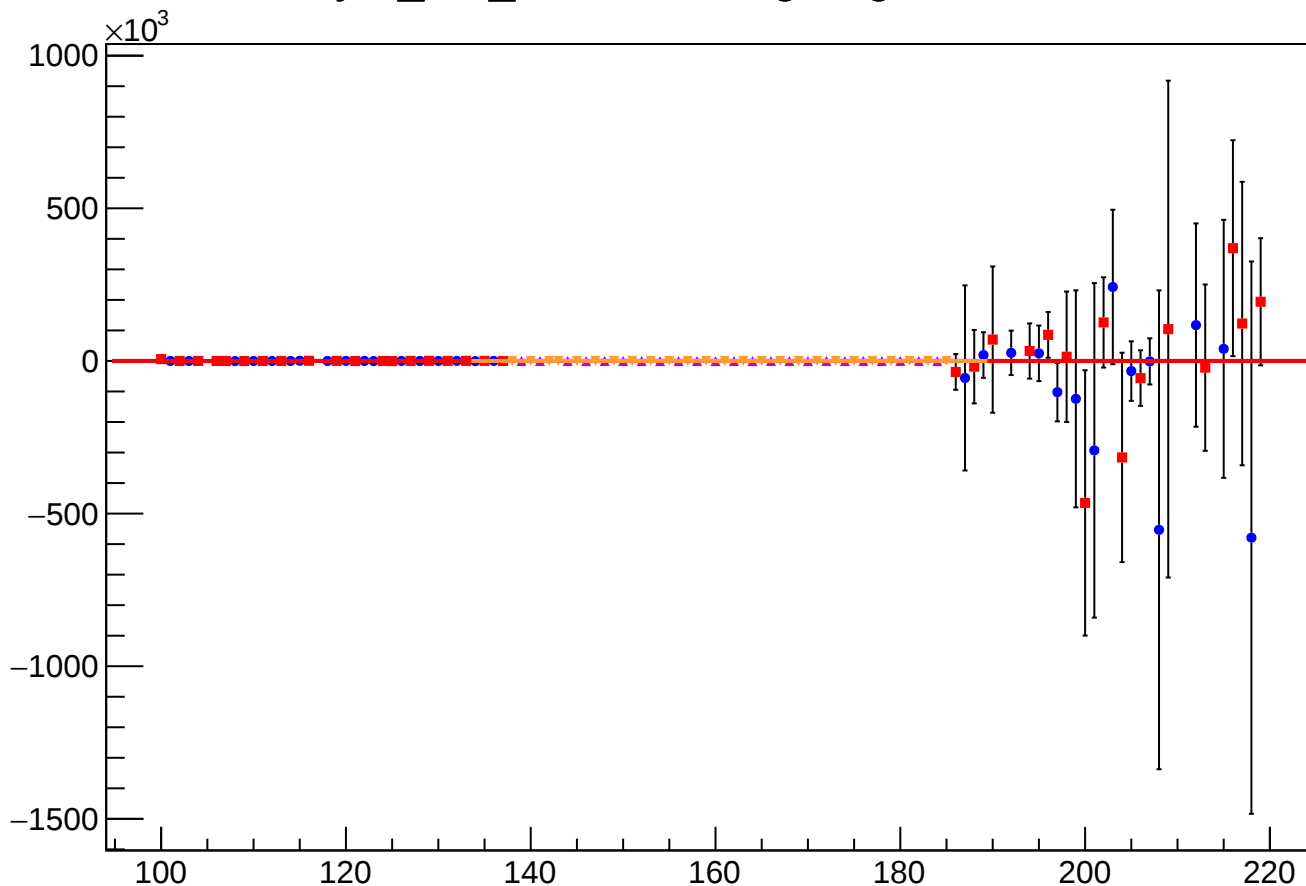
Right: 1.961 $\pm$ 0.000 χ^2/NDF : 14615168.0/68

In: 2.083 $\pm$ 0.000 χ^2/NDF : 7809098.1/55

Out: 2.201 $\pm$ 0.000 χ^2/NDF : 7922555.2/60

All: 2.141 $\pm$ 0.000 χ^2/NDF : 15794050.7/116

asym_dsr_mean vs Slug, Sign Corrected



Right In: -25.065 ± 46.854 χ^2/NDF : 18.4/30

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

Right Out: 54.310 ± 47.789 χ^2/NDF : 23.1/33

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

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

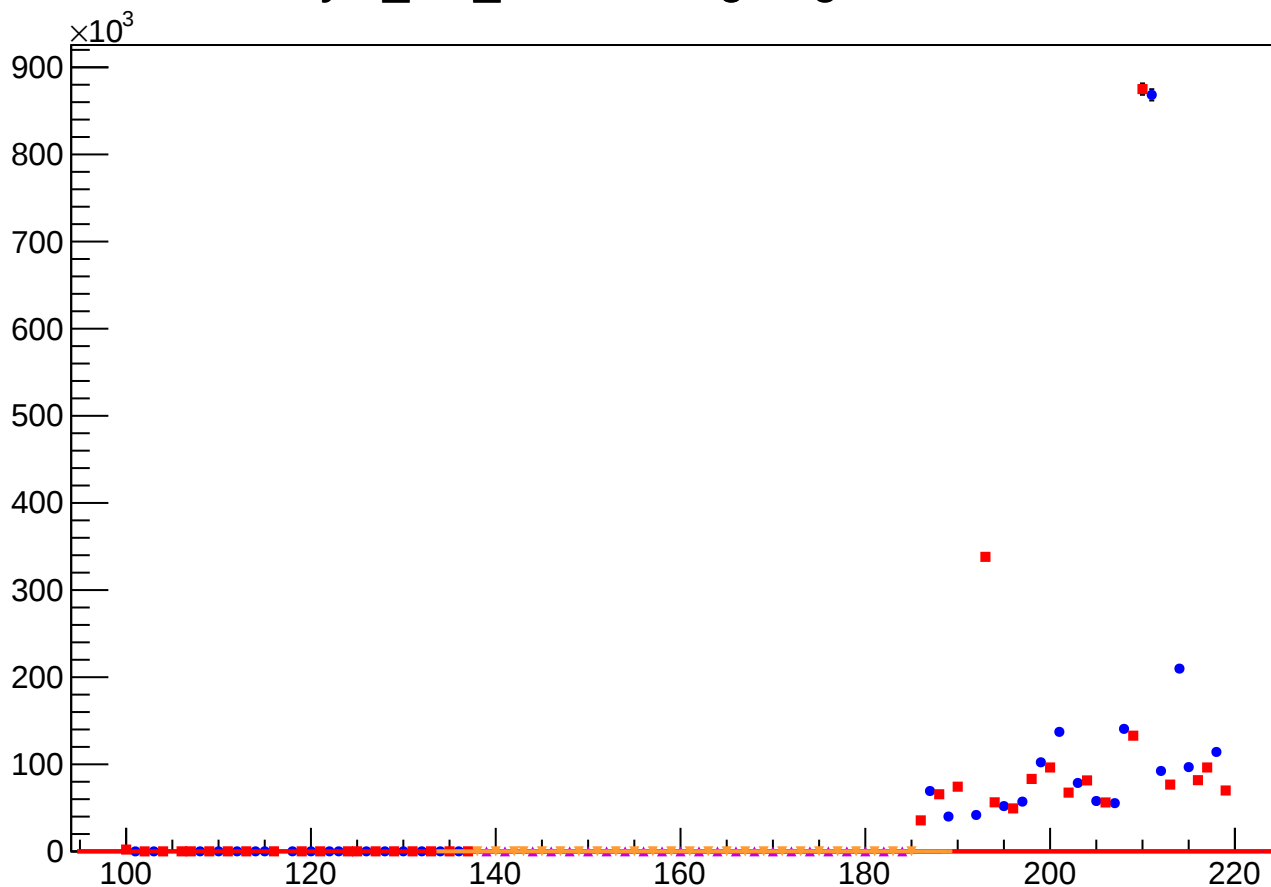
Right: 13.838 ± 33.456 χ^2/NDF : 43.0/64

In: -51.938 ± 26.954 χ^2/NDF : 38.3/53

Out: 7.638 ± 26.631 χ^2/NDF : 36.3/58

All: -21.791 ± 18.944 χ^2/NDF : 77.1/112

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.915 $\pm$ 0.033 χ^2 /NDF: 7081234.5/32

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

Right Out: 124.838 $\pm$ 0.034 χ^2 /NDF: 7049817.7/35

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

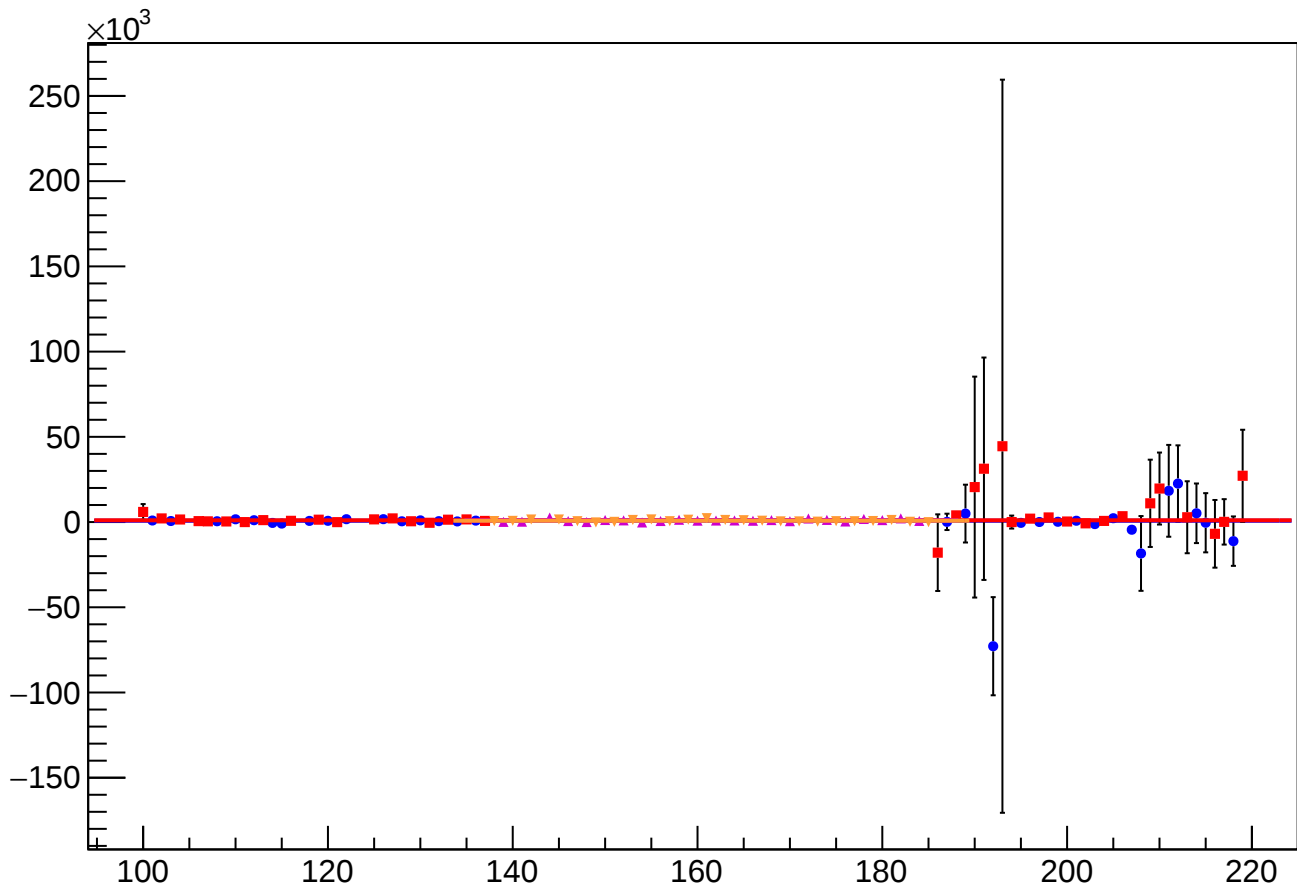
Right: 121.308 $\pm$ 0.024 χ^2 /NDF: 14152450.5/68

In: 131.248 $\pm$ 0.019 χ^2 /NDF:7323750.7/55

Out: 133.840 $\pm$ 0.019 χ^2 /NDF:7153199.3/60

All: 132.560 $\pm$ 0.013 χ^2 /NDF: 14486311.4/11

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 766.778 $\pm$ 209.802 χ^2 /NDF: 21.7/31

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

Right Out: 1040.143 $\pm$ 207.223 χ^2 /NDF: 20.7/35

Left In: 974.402 $\pm$ 134.932 χ^2 /NDF:27.4/22

Left: 878.766 $\pm$ 95.099 χ^2 /NDF: 47.6/46

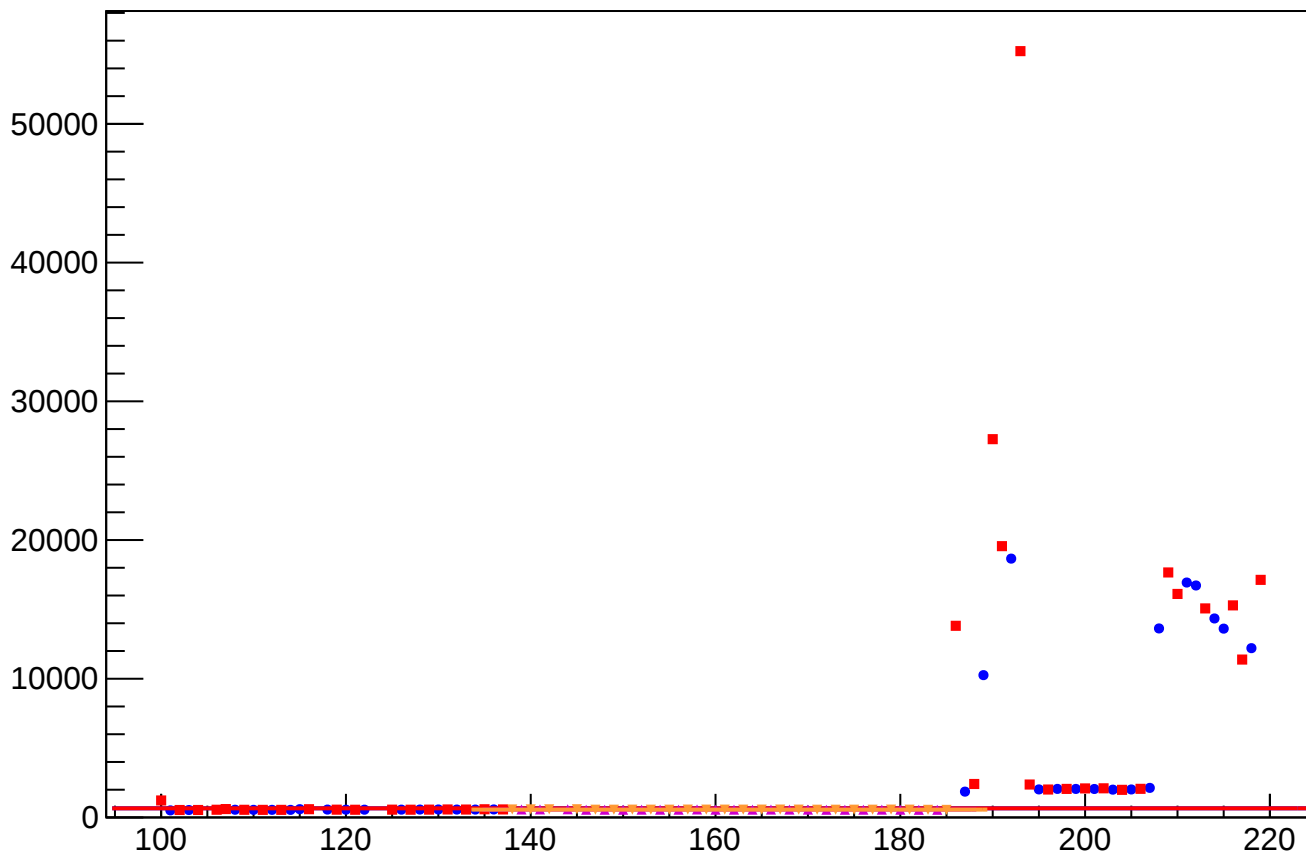
Right: 905.151 $\pm$ 147.432 χ^2 /NDF: 43.3/67

In: 913.651 $\pm$ 113.487 χ^2 /NDF:49.9/54

Out: 859.830 $\pm$ 112.555 χ^2 /NDF:41.0/59

All: 886.518 $\pm$ 79.916 χ^2 /NDF: 91.0/114

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 660.501+/-0.148 χ^2/NDF : 13304545.7/31

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

Right Out: 658.198+/-0.147 χ^2/NDF : 13208247.0/35

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

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

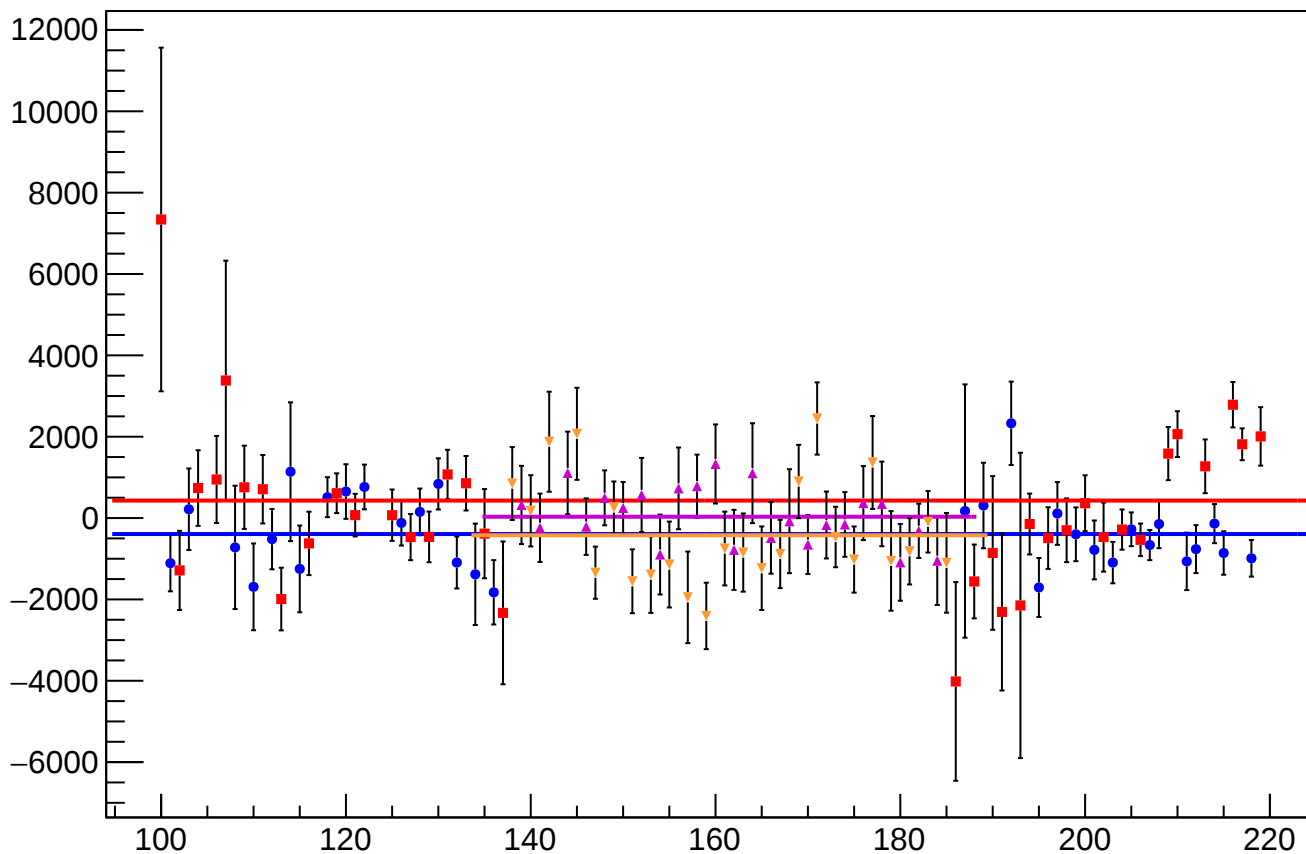
Right: 659.335+/-0.104 χ^2/NDF : 26512914.6/67

In: 592.507+/-0.080 χ^2/NDF :13610706.0/54

Out: 591.892+/-0.080 χ^2/NDF :13508306.5/59

All: 592.197+/-0.057 χ^2/NDF : 27119042.1/11

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -392.934 $\pm$ 113.399 χ^2 /NDF: 43.1/31

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

Right Out: 430.158 $\pm$ 118.205 χ^2 /NDF: 100.4/35

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

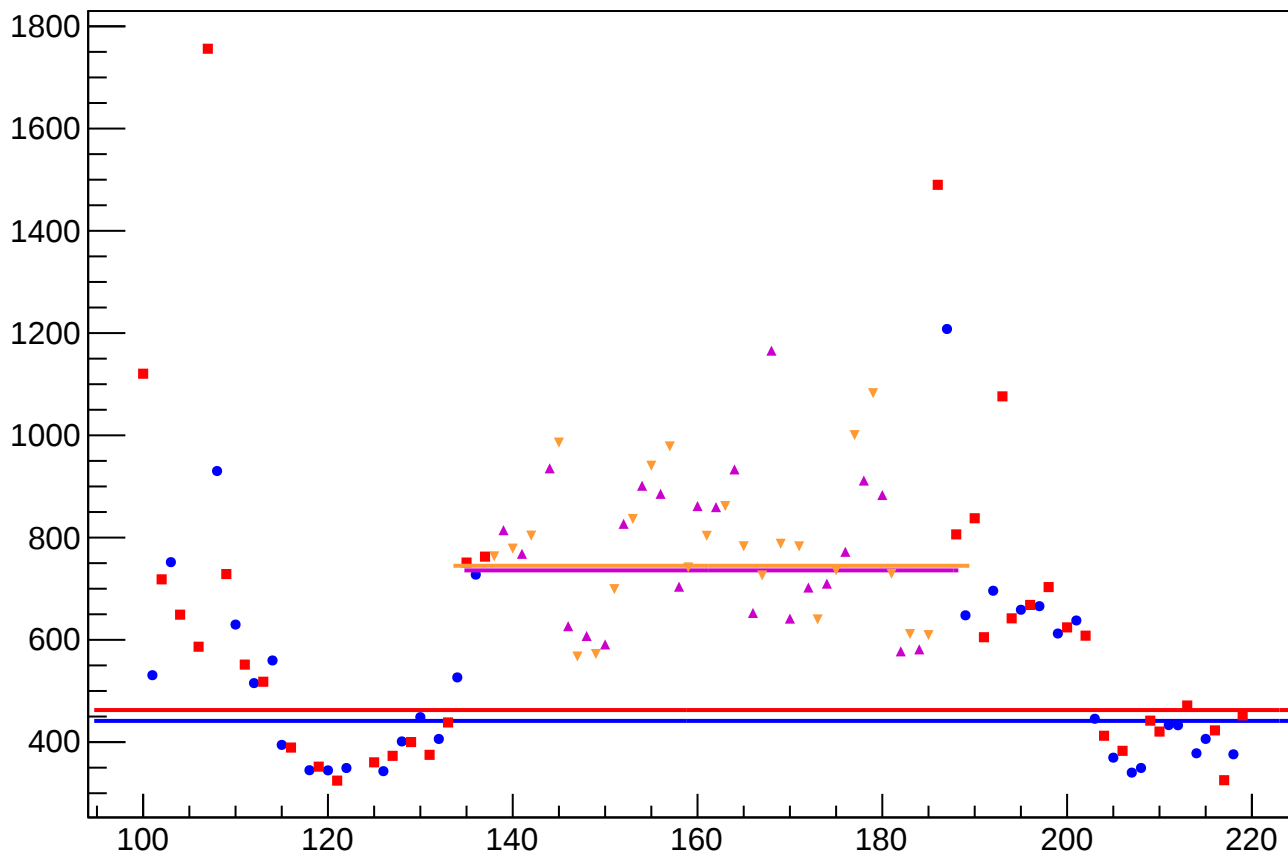
Right: 1.537 $\pm$ 81.832 χ^2 /NDF: 168.8/67

In: -271.534 $\pm$ 95.859 χ^2 /NDF:59.3/54

Out: 174.401 $\pm$ 98.906 χ^2 /NDF:159.2/59

All: -55.539 $\pm$ 68.835 χ^2 /NDF: 229.0/114

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 441.472+/-0.080 χ^2/NDF : 2348477.8/31

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

Right Out: 462.655+/-0.084 χ^2/NDF : 3244348.2/35

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

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

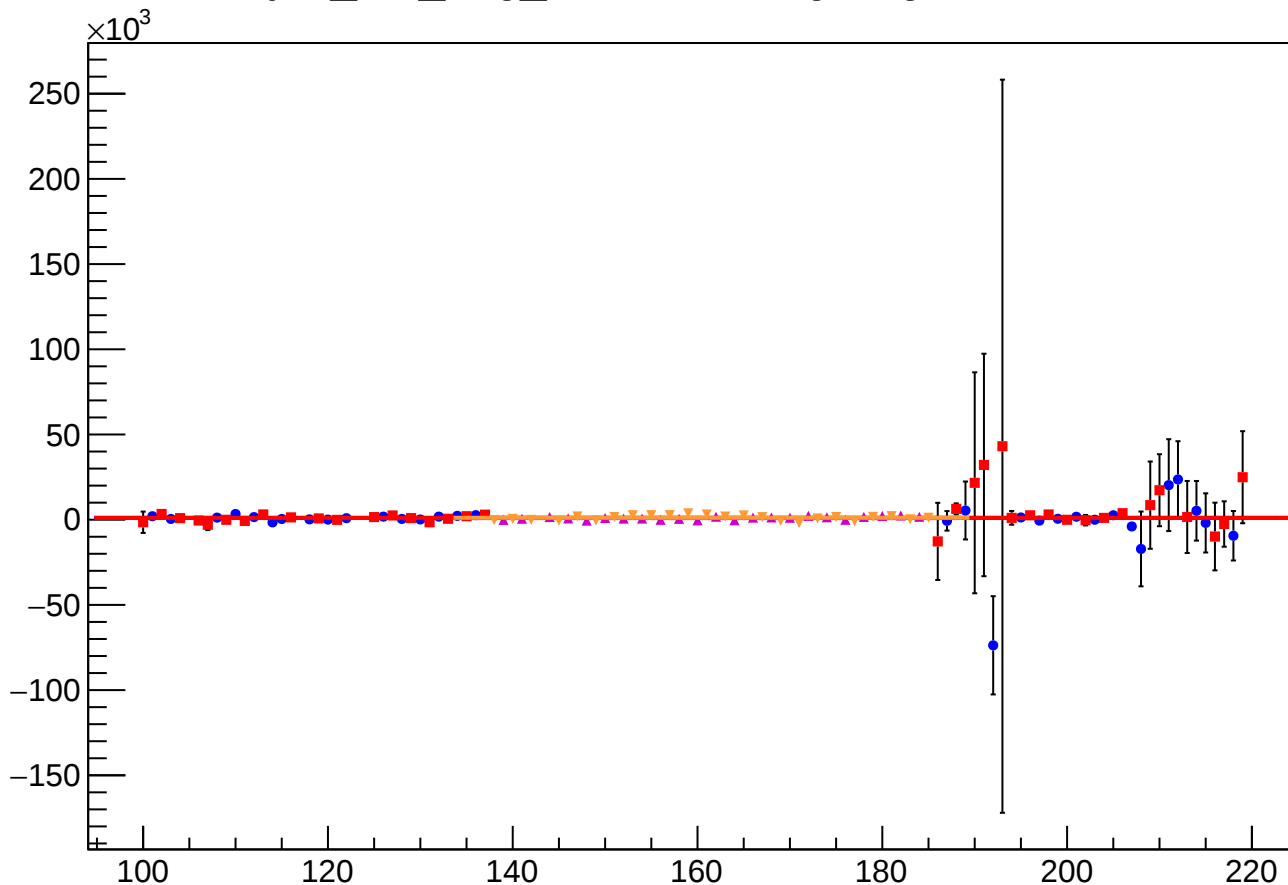
Right: 451.624+/-0.058 χ^2/NDF : 5626273.0/67

In: 525.492+/-0.068 χ^2/NDF :7300716.3/54

Out: 547.300+/-0.070 χ^2/NDF :7672959.1/59

All: 536.055+/-0.049 χ^2/NDF : 15023812.0/11

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1090.859 $\pm$ 280.466 χ^2/NDF : 27.4/31

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

Right Out: 1061.813 $\pm$ 280.244 χ^2/NDF : 31.6/35

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

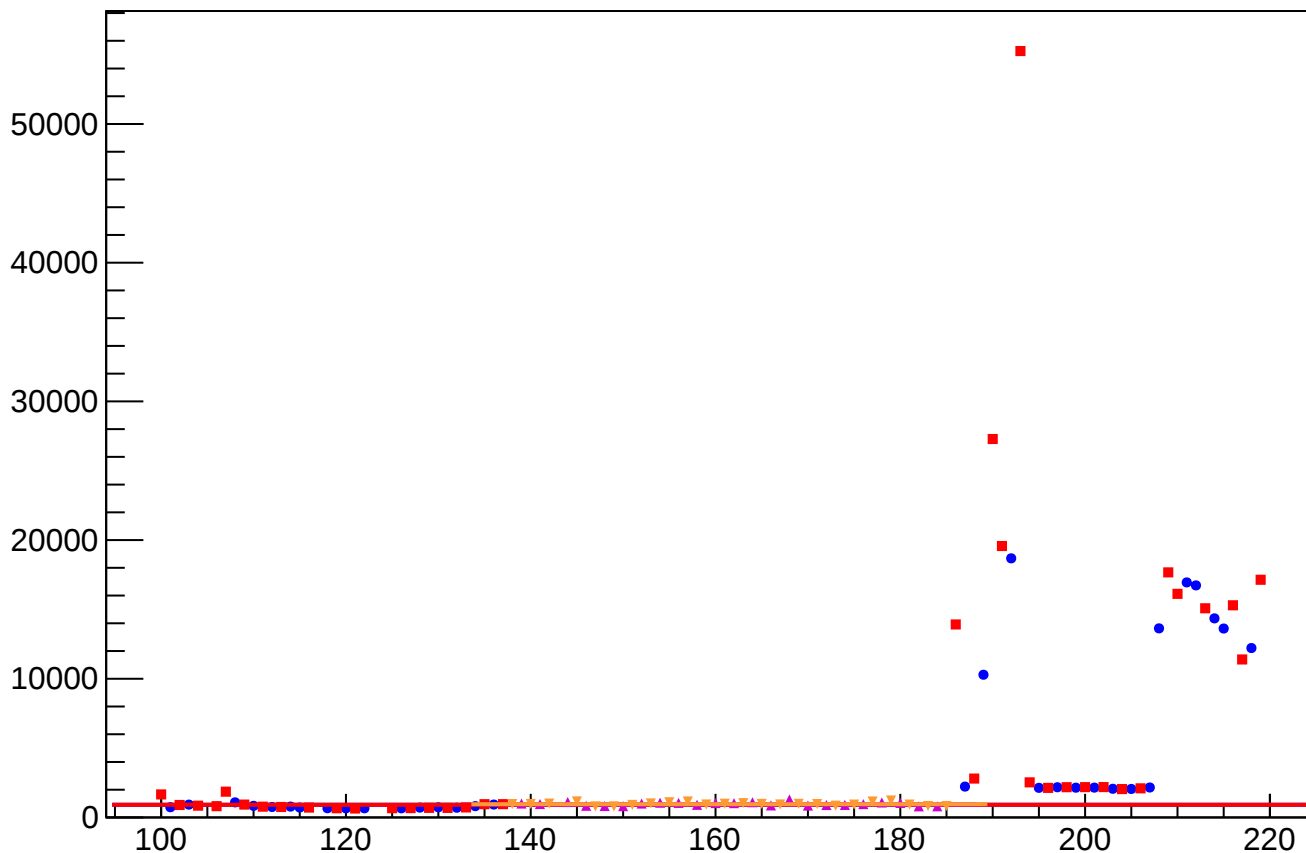
Right: 1076.324 $\pm$ 198.241 χ^2/NDF : 59.0/67

In: 1001.153 $\pm$ 177.068 χ^2/NDF : 42.4/54

Out: 1107.484 $\pm$ 177.249 χ^2/NDF : 70.5/59

All: 1054.264 $\pm$ 125.270 χ^2/NDF : 113.1/114

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 914.576+/-0.198 χ^2/NDF : 11845587.9/31

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

Right Out: 914.214+/-0.198 χ^2/NDF : 12151429.2/35

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

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

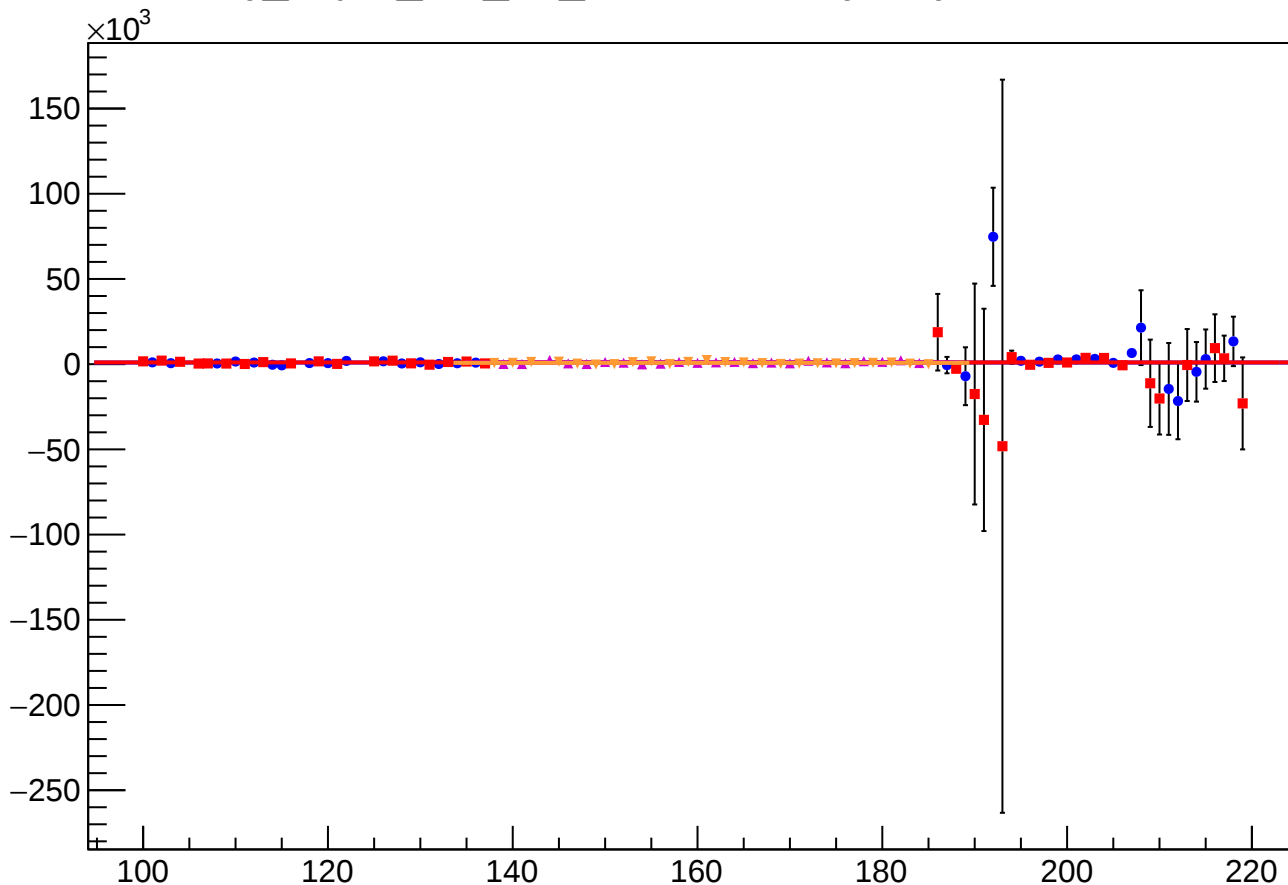
Right: 914.395+/-0.140 χ^2/NDF : 23997018.8/67

In: 933.820+/-0.125 χ^2/NDF : 12362609.6/54

Out: 938.284+/-0.125 χ^2/NDF : 12636169.5/59

All: 936.050+/-0.089 χ^2/NDF : 24999414.1/11

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 959.679+/-209.670 χ^2/NDF : 24.5/31

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

Right Out: 1015.218+/-202.613 χ^2/NDF : 21.1/35

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

Left: 857.420+/-95.022 χ^2/NDF : 49.0/46

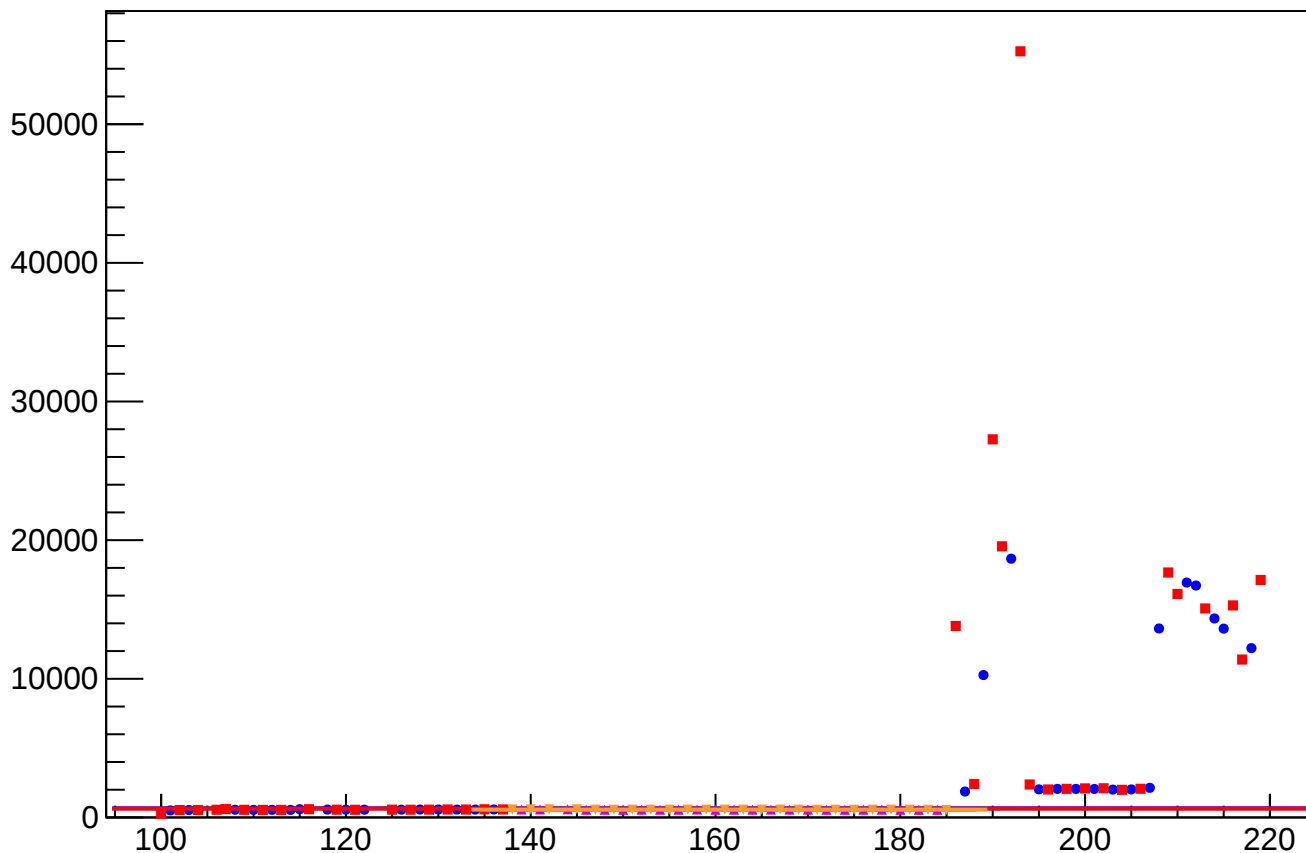
Right: 988.399+/-145.700 χ^2/NDF : 45.6/67

In: 958.857+/-113.402 χ^2/NDF : 51.4/54

Out: 835.975+/-111.734 χ^2/NDF : 43.2/59

All: 896.505+/-79.591 χ^2/NDF : 95.2/114

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 659.863+/-0.148 χ^2/NDF : 13319132.4/31

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

Right Out: 638.477+/-0.143 χ^2/NDF : 13527026.4/35

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

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

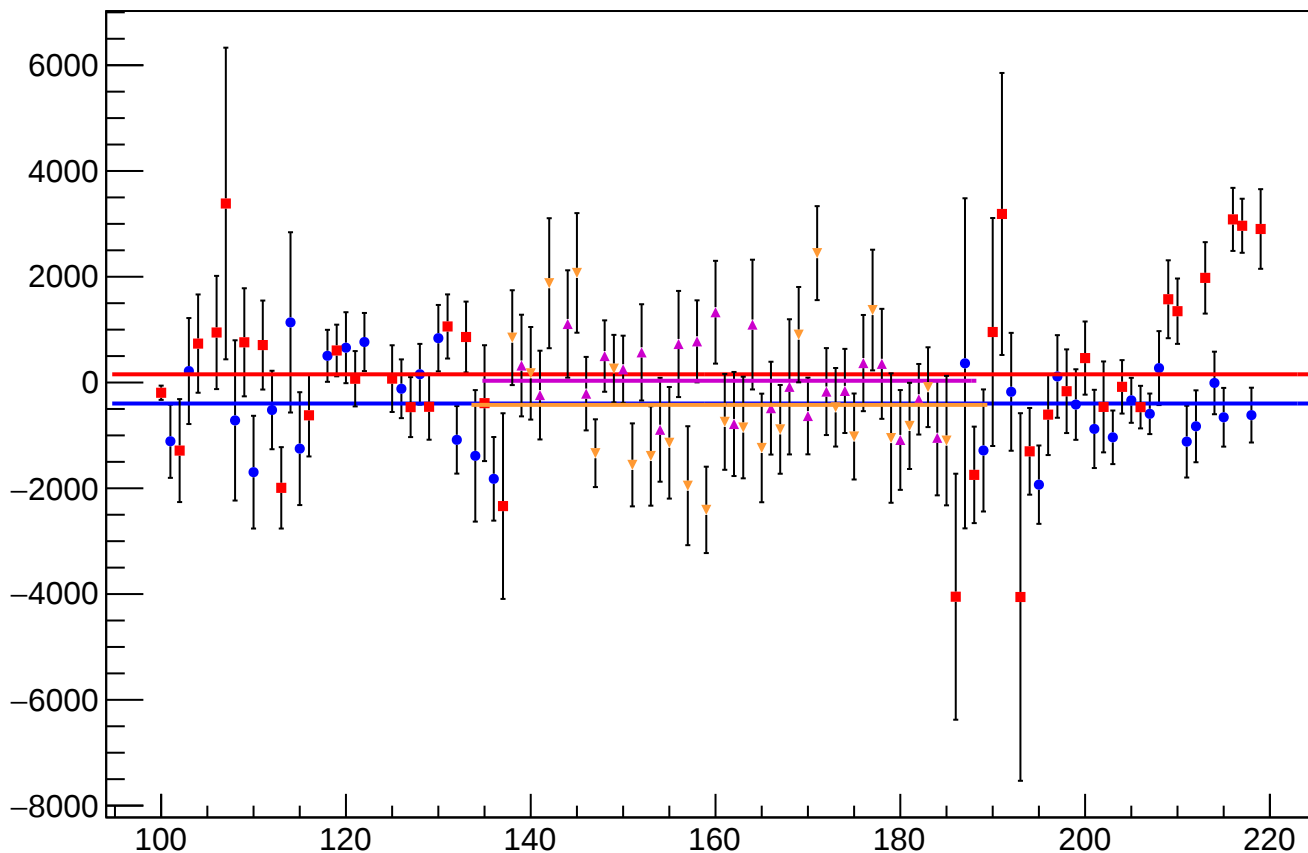
Right: 648.804+/-0.103 χ^2/NDF : 26856919.1/67

In: 591.996+/-0.080 χ^2/NDF : 13624525.7/54

Out: 586.423+/-0.079 χ^2/NDF : 13726268.6/59

All: 589.168+/-0.056 χ^2/NDF : 27353245.2/11

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -396.977 ± 117.647 χ^2/NDF : 35.8/31

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

Right Out: 155.222 ± 90.841 χ^2/NDF : 129.8/35

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

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

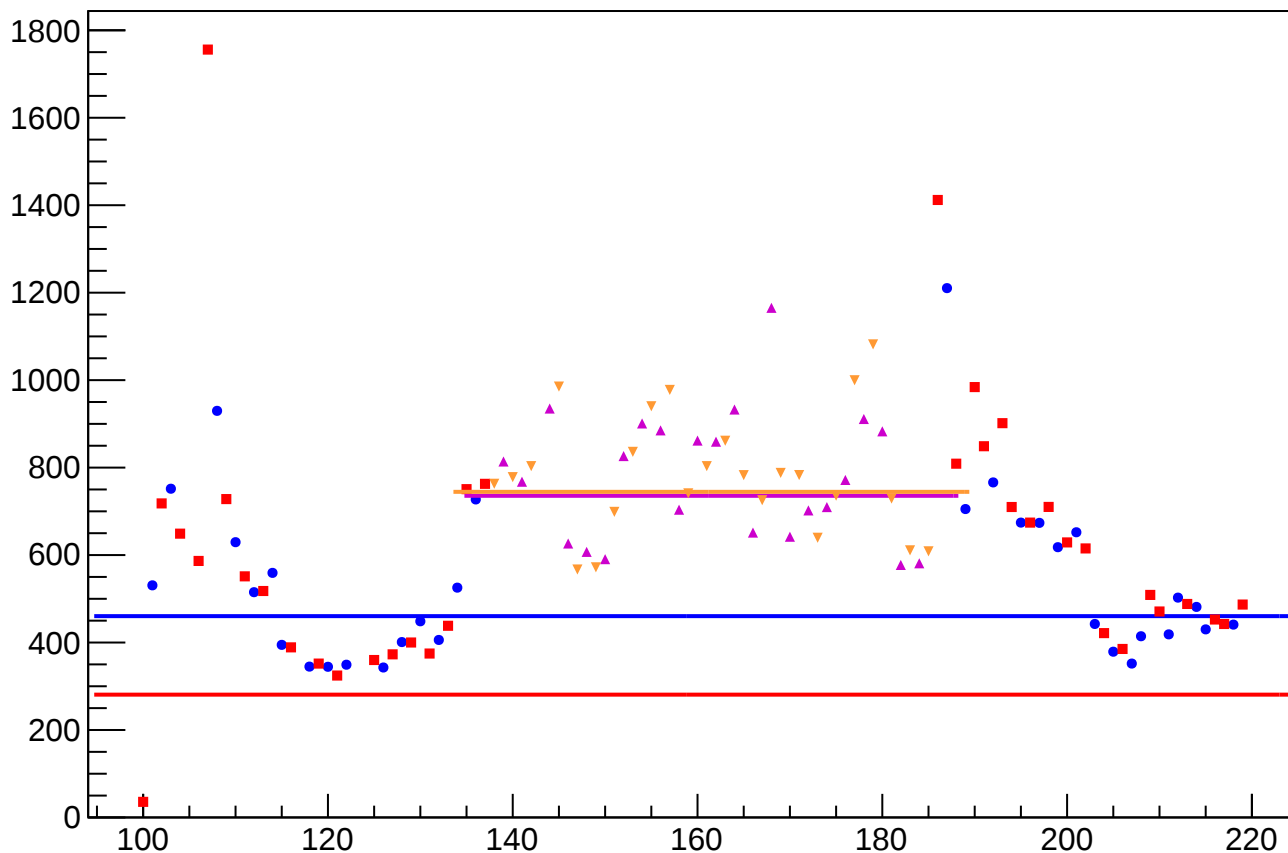
Right: -51.033 ± 71.901 χ^2/NDF : 179.4/67

In: -267.530 ± 98.372 χ^2/NDF : 52.0/54

Out: 38.535 ± 81.147 χ^2/NDF : 181.2/59

All: -85.397 ± 62.598 χ^2/NDF : 238.9/114

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 460.346 $\pm$ 0.083 χ^2/NDF : 2257336.4/31

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

Right Out: 280.825 $\pm$ 0.064 χ^2/NDF : 15051364.6/35

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

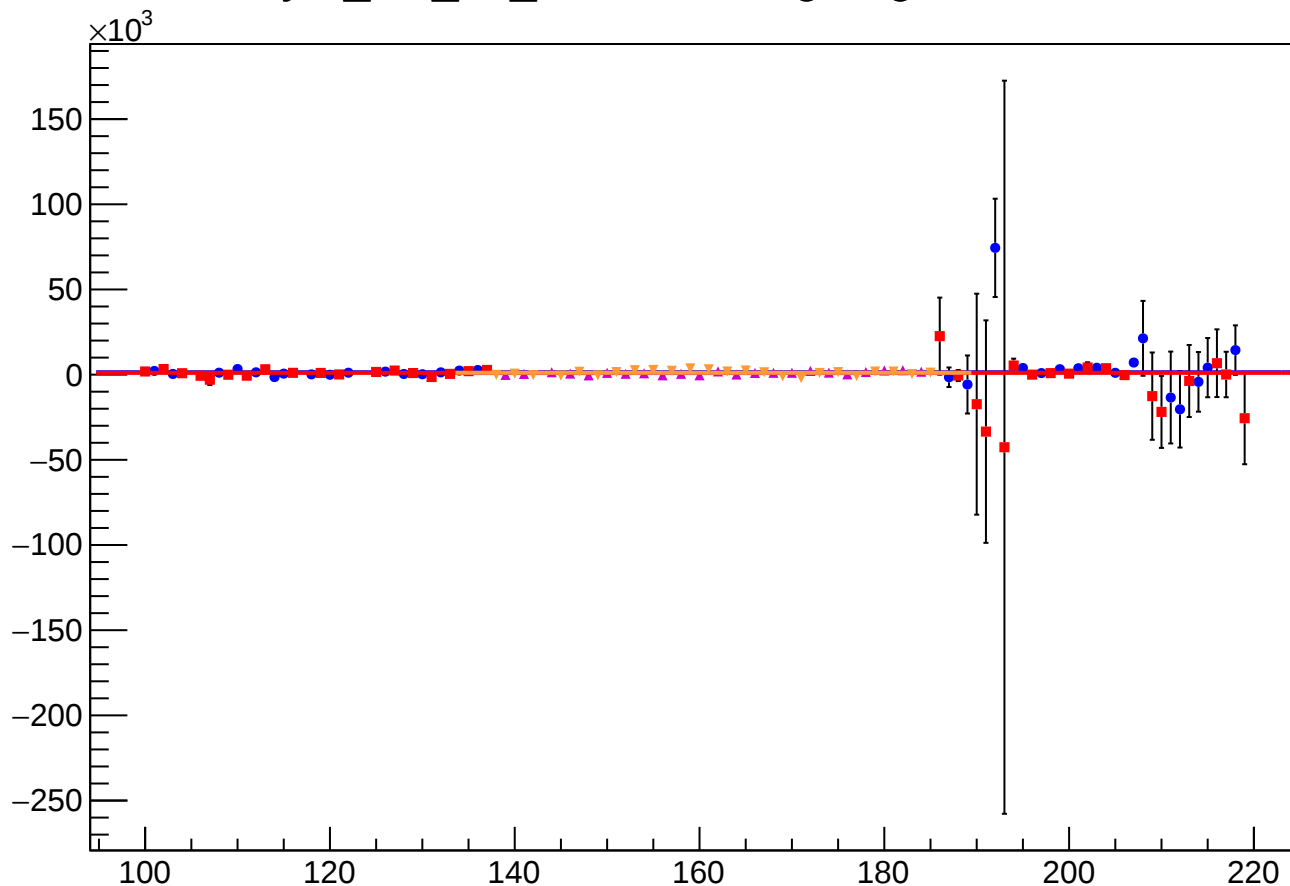
Right: 347.879 $\pm$ 0.051 χ^2/NDF : 20226222.5/67

In: 543.133 $\pm$ 0.070 χ^2/NDF : 6654657.3/54

Out: 374.525 $\pm$ 0.057 χ^2/NDF : 26593080.0/59

All: 442.798 $\pm$ 0.044 χ^2/NDF : 36744092.8/11

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1411.663 $\pm$ 280.370 χ^2/NDF : 31.9/31

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

Right Out: 1067.524 $\pm$ 269.361 χ^2/NDF : 30.6/35

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

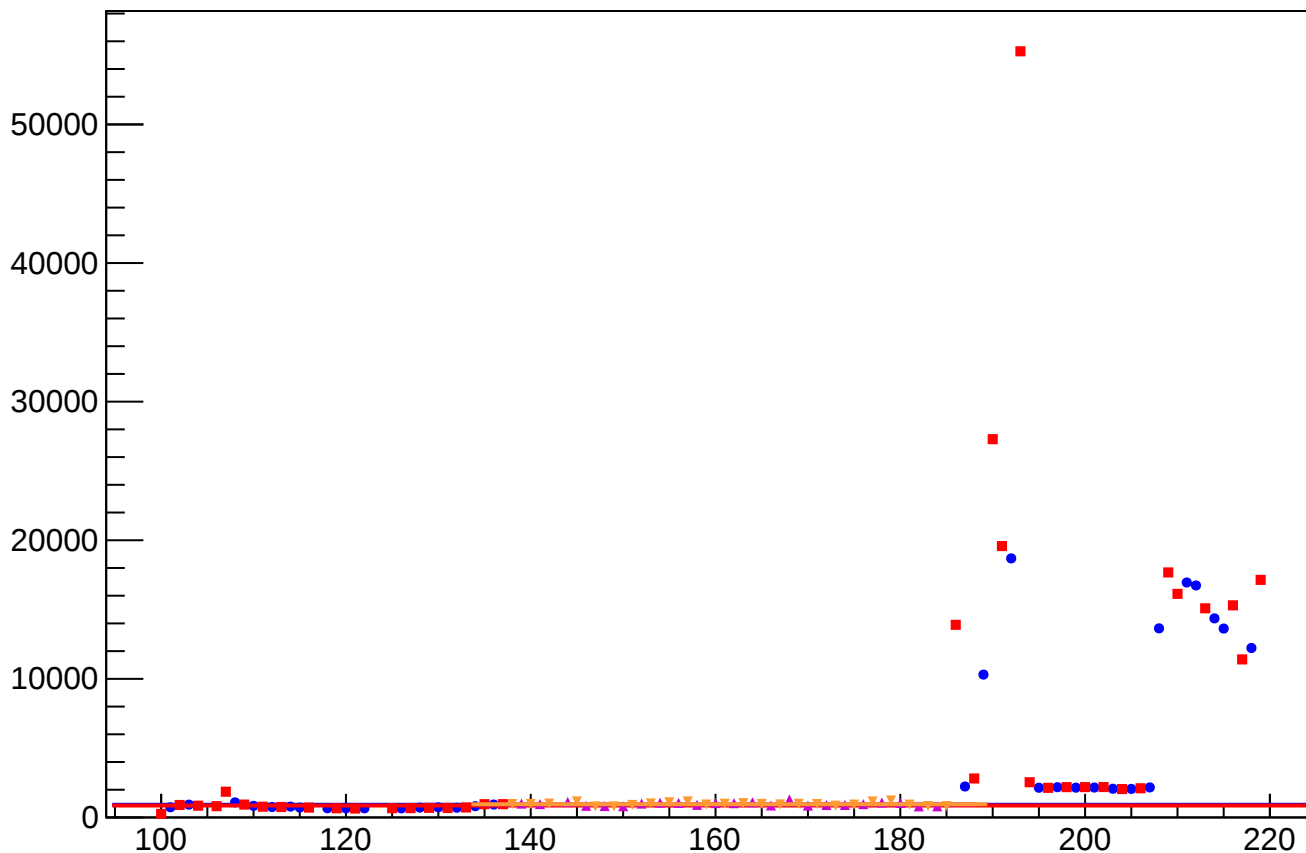
Right: 1232.704 $\pm$ 194.243 χ^2/NDF : 63.3/67

In: 1119.695 $\pm$ 176.984 χ^2/NDF : 48.8/54

Out: 1089.385 $\pm$ 174.338 χ^2/NDF : 68.8/59

All: 1104.312 $\pm$ 124.200 χ^2/NDF : 117.7/114

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 913.822 $\pm$ 0.198 χ^2 /NDF: 11867206.0/31

Left Out: 953.781 $\pm$ 0.162 χ^2 /NDF: 460211.0/23

Right Out: 861.355 $\pm$ 0.190 χ^2 /NDF: 12986615.9/35

Left In: 946.041 $\pm$ 0.161 χ^2 /NDF: 501442.7/22

Left: 949.902 $\pm$ 0.114 χ^2 /NDF: 962801.6/46

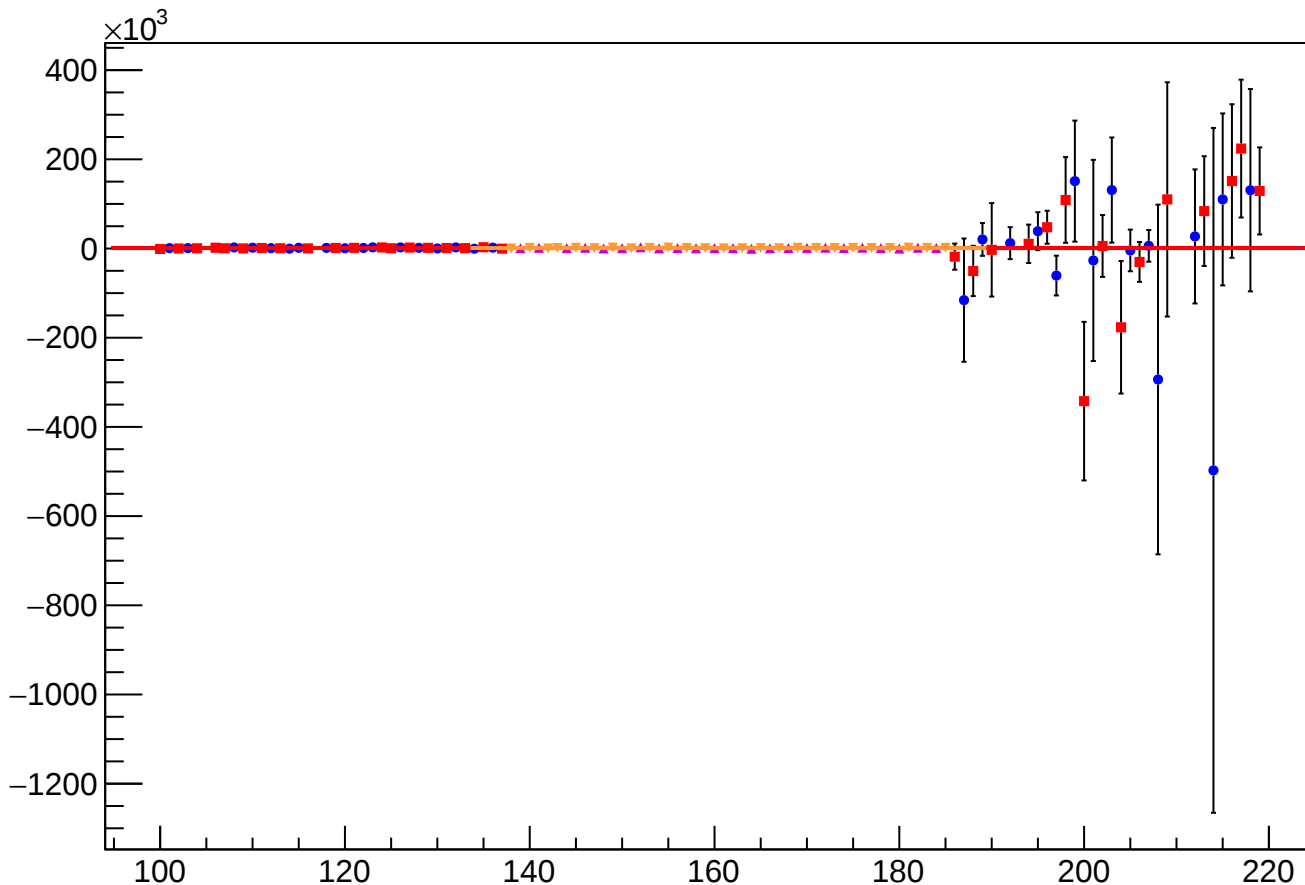
Right: 886.538 $\pm$ 0.137 χ^2 /NDF: 24890244.6/67

In: 933.202 $\pm$ 0.125 χ^2 /NDF: 12384535.1/54

Out: 915.063 $\pm$ 0.123 χ^2 /NDF: 13583663.4/59

All: 923.996 $\pm$ 0.088 χ^2 /NDF: 25978860.9/11

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.376 $\pm$ 218.578 χ^2 /NDF: 20.7/31

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

Right Out: 1041.099 $\pm$ 212.060 χ^2 /NDF: 28.5/33

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

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

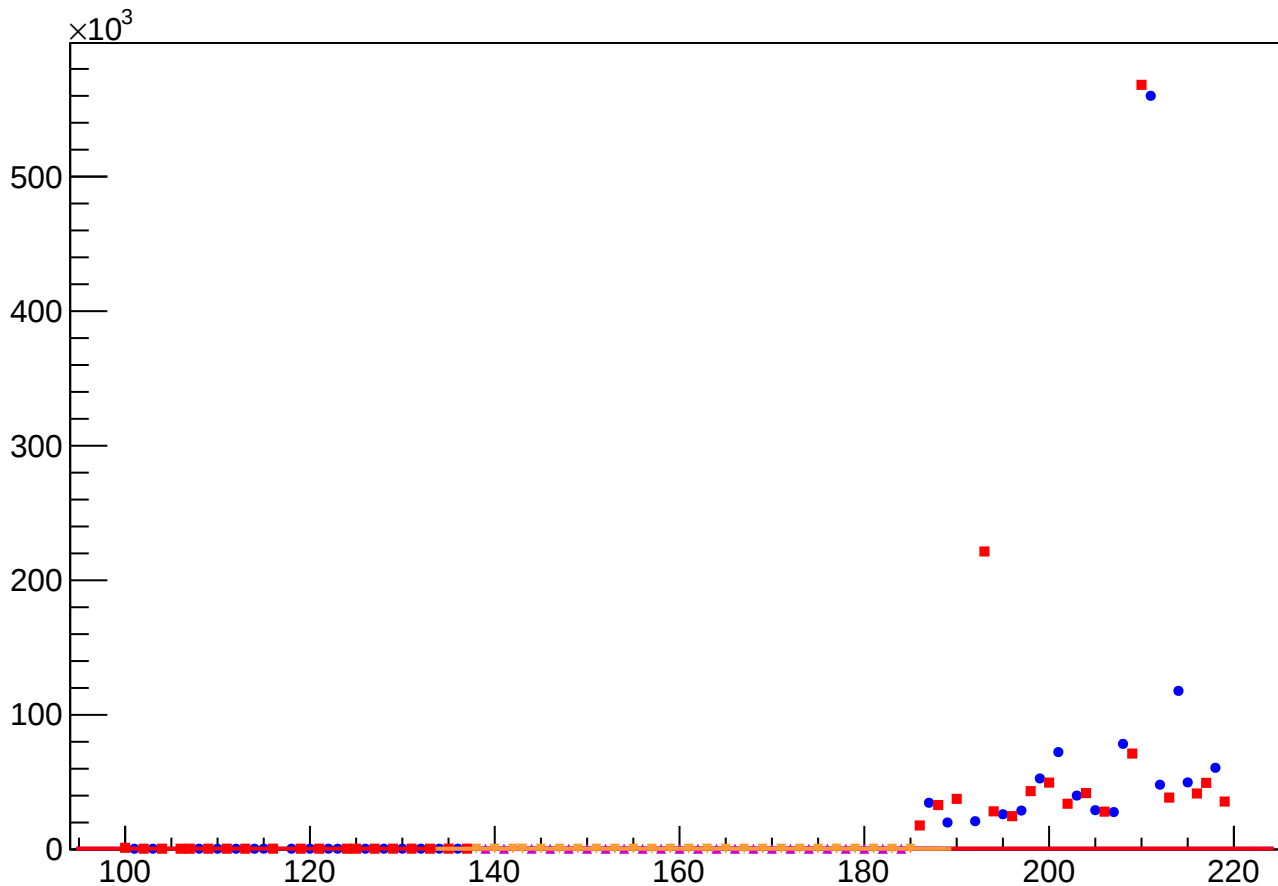
Right: 1178.936 $\pm$ 152.202 χ^2 /NDF: 50.1/65

In: 1178.405 $\pm$ 113.721 χ^2 /NDF:51.4/54

Out: 1064.771 $\pm$ 110.639 χ^2 /NDF:43.7/58

All: 1120.028 $\pm$ 79.301 χ^2 /NDF: 95.5/113

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 568.790+/-0.155 χ^2/NDF : 6467415.7/32

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

Right Out: 570.199+/-0.150 χ^2/NDF : 6524658.2/35

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

Left: 557.259 ± 0.066 $\chi^2/\text{NDF}: 25980.9/47$

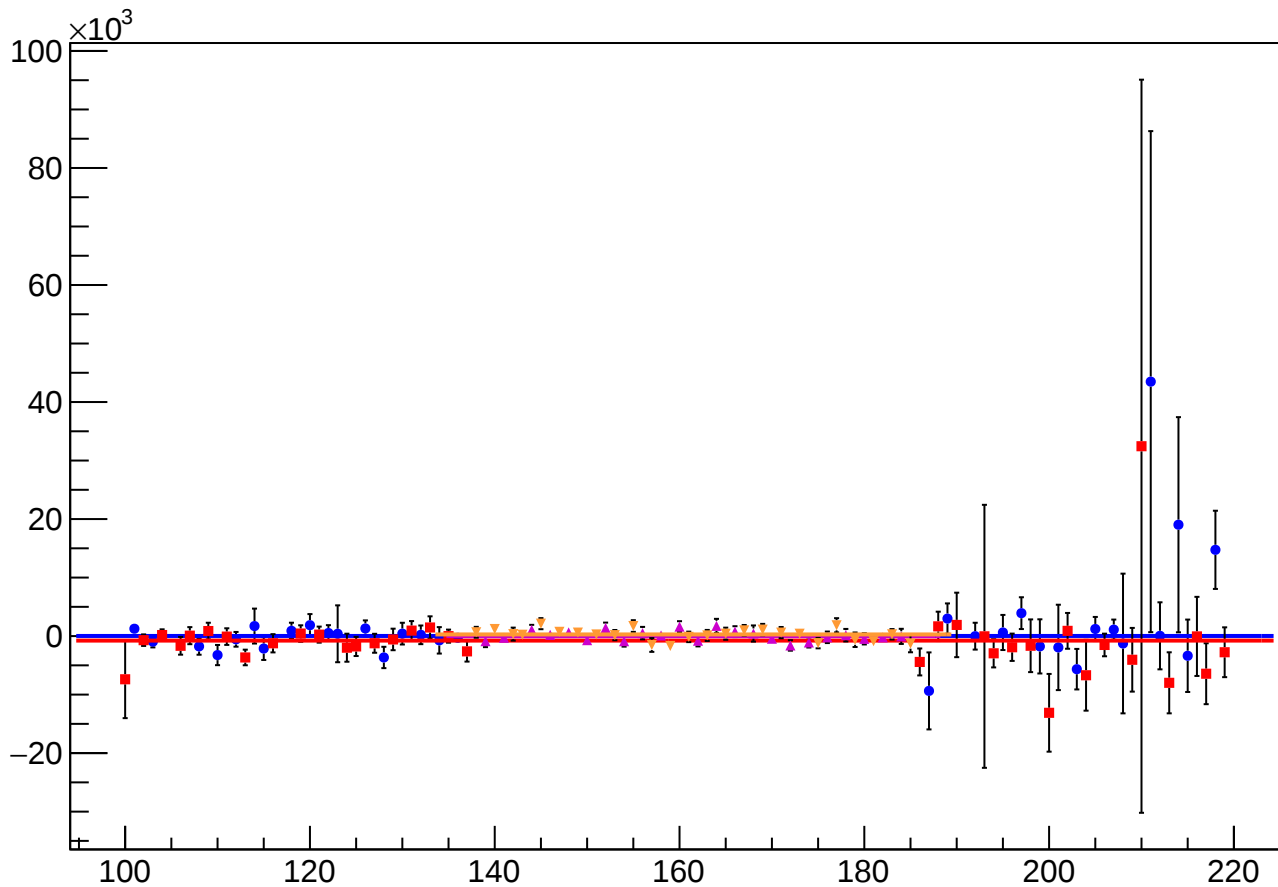
Right: 569.516+/-0.108 χ^2/NDF : 12992116.7/68

In: 560.169+/-0.080 χ^2/NDF :6482891.7/55

Out: 560.982+/-0.078 χ^2/NDF :6544602.5/60

All: 560.586+/-0.056 χ^2/NDF : 13027546.8/11

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: 21.901+/-305.695 χ^2/NDF : 33.5/32

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

Right Out: -768.603+/-309.849 χ^2/NDF : 28.6/35

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

Left: 139.190+/-128.612 χ^2/NDF : 48.2/47

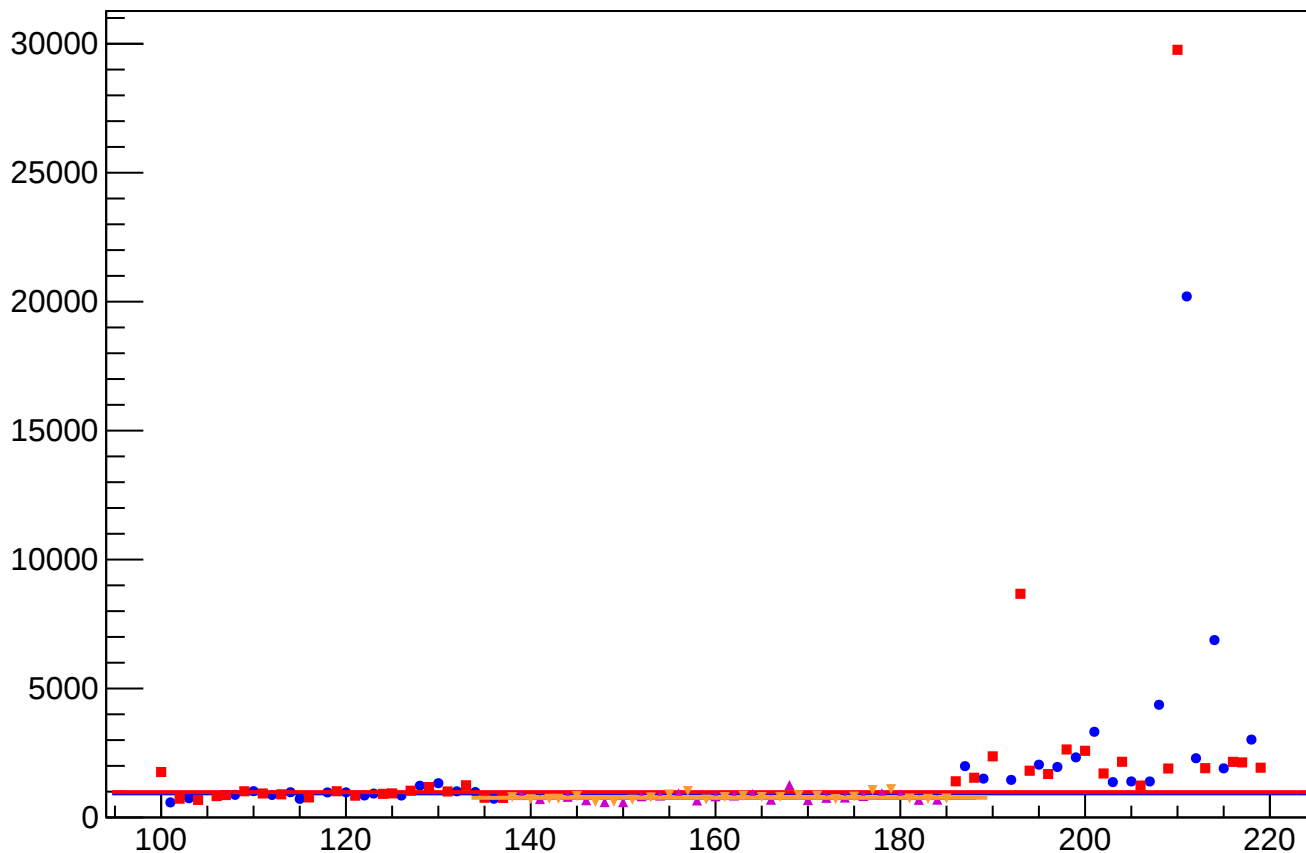
Right: -368.017+/-217.613 χ^2/NDF : 65.4/68

In: -0.243+/-157.256 χ^2/NDF : 53.7/55

Out: 15.882+/-155.916 χ^2/NDF : 63.9/60

All: 7.888+/-110.720 χ^2/NDF : 117.6/116

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 935.482 $\pm$ 0.216 χ^2 /NDF: 3470669.7/32

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

Right Out: 981.424 $\pm$ 0.219 χ^2 /NDF: 3014571.6/35

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

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

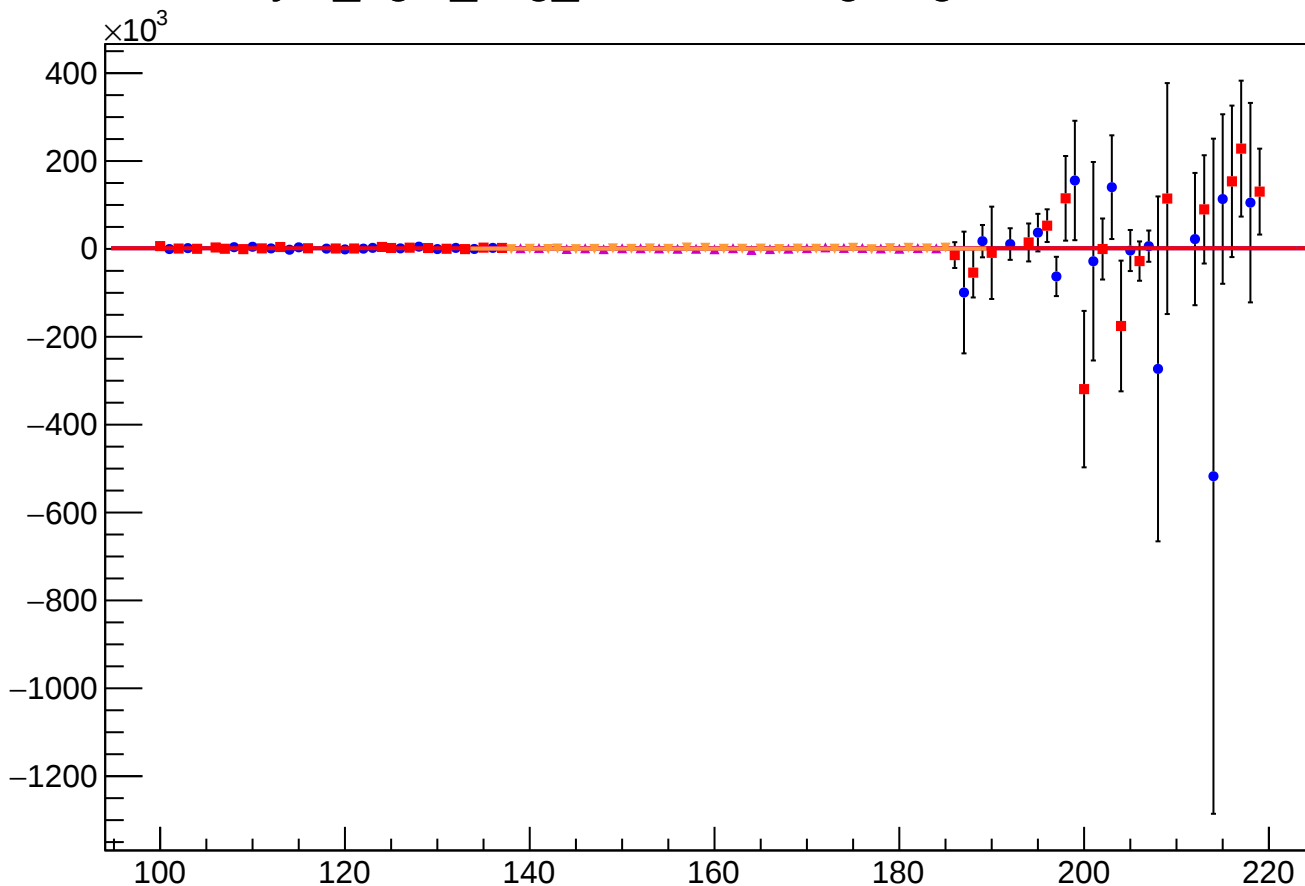
Right: 958.143 $\pm$ 0.154 χ^2 /NDF: 6507523.1/68

In: 802.099 $\pm$ 0.111 χ^2 /NDF: 4920295.5/55

Out: 818.372 $\pm$ 0.110 χ^2 /NDF: 4509921.7/60

All: 810.305 $\pm$ 0.078 χ^2 /NDF: 9441016.7/116

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1501.827 $\pm$ 402.533 χ^2 /NDF: 24.9/31

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

Right Out: 1491.362 $\pm$ 400.590 χ^2 /NDF: 27.1/33

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

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

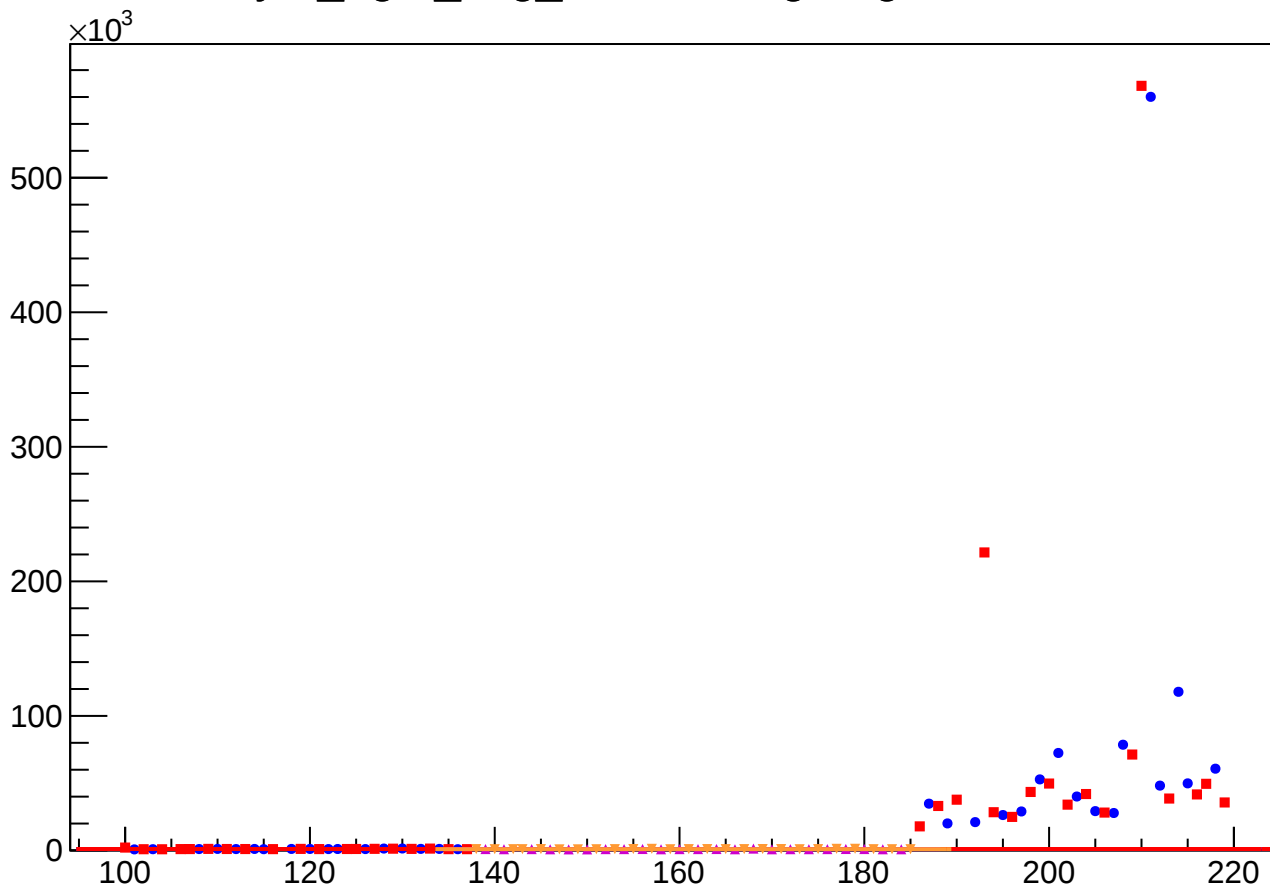
Right: 1496.569 $\pm$ 283.944 χ^2 /NDF: 52.0/65

In: 1217.474 $\pm$ 199.742 χ^2 /NDF:50.9/54

Out: 920.569 $\pm$ 196.528 χ^2 /NDF:51.3/58

All: 1066.613 $\pm$ 140.089 χ^2 /NDF: 103.4/113

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1039.531 $\pm$ 0.285 χ^2 /NDF: 6592872.7/32

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

Right Out: 1074.923 $\pm$ 0.283 χ^2 /NDF: 6501245.2/35

Left In: 954.643 $\pm$ 0.163 χ^2 /NDF: 443395.0/22

Left: 958.525 $\pm$ 0.114 χ^2 /NDF: 807449.1/47

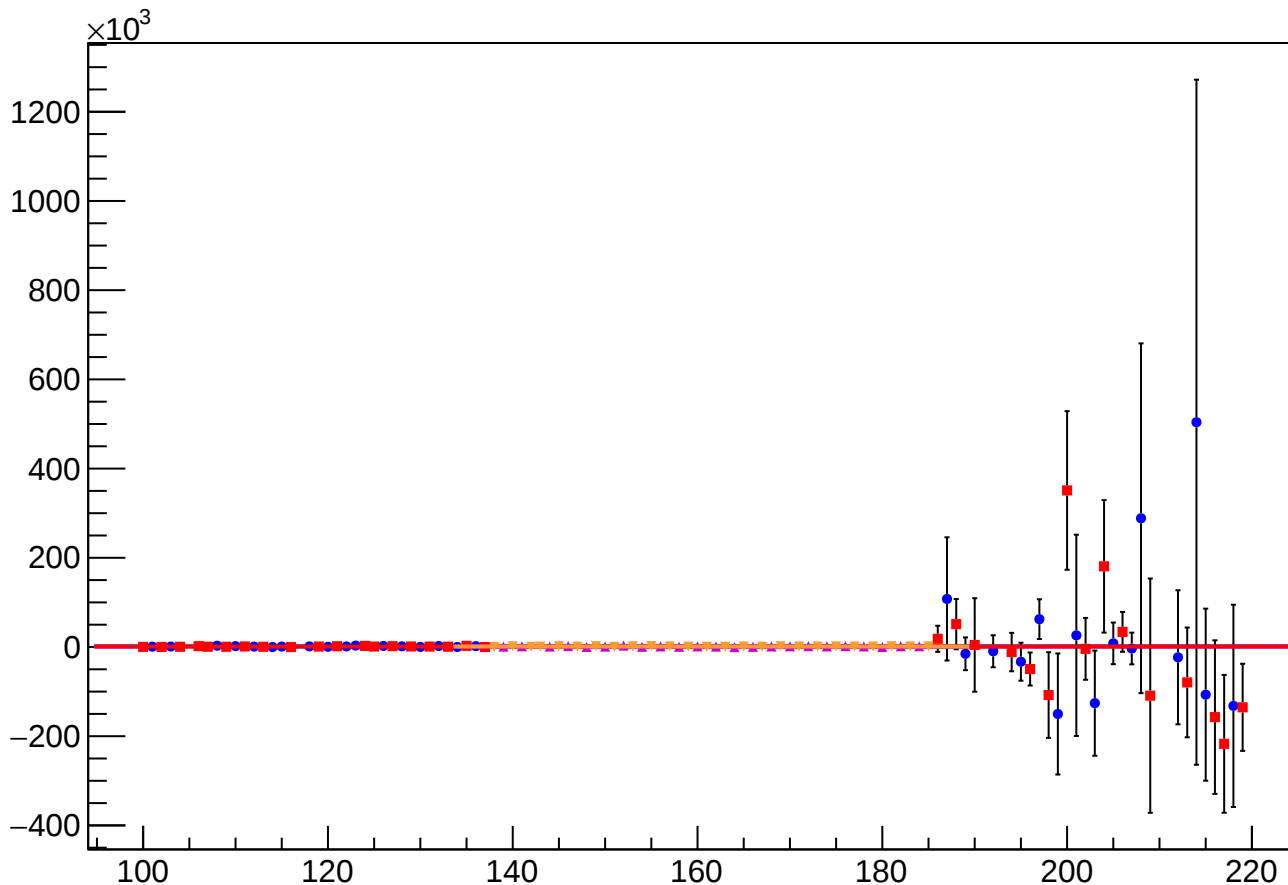
Right: 1057.312 $\pm$ 0.201 χ^2 /NDF: 13101885.7/68

In: 975.545 $\pm$ 0.141 χ^2 /NDF: 7103311.3/55

Out: 989.373 $\pm$ 0.139 χ^2 /NDF: 6984311.8/60

All: 982.571 $\pm$ 0.099 χ^2 /NDF: 14092493.4/11

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1344.214+/-218.833 χ^2/NDF : 19.5/31

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

Right Out: 964.579+/-208.596 χ^2/NDF : 27.9/33

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

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

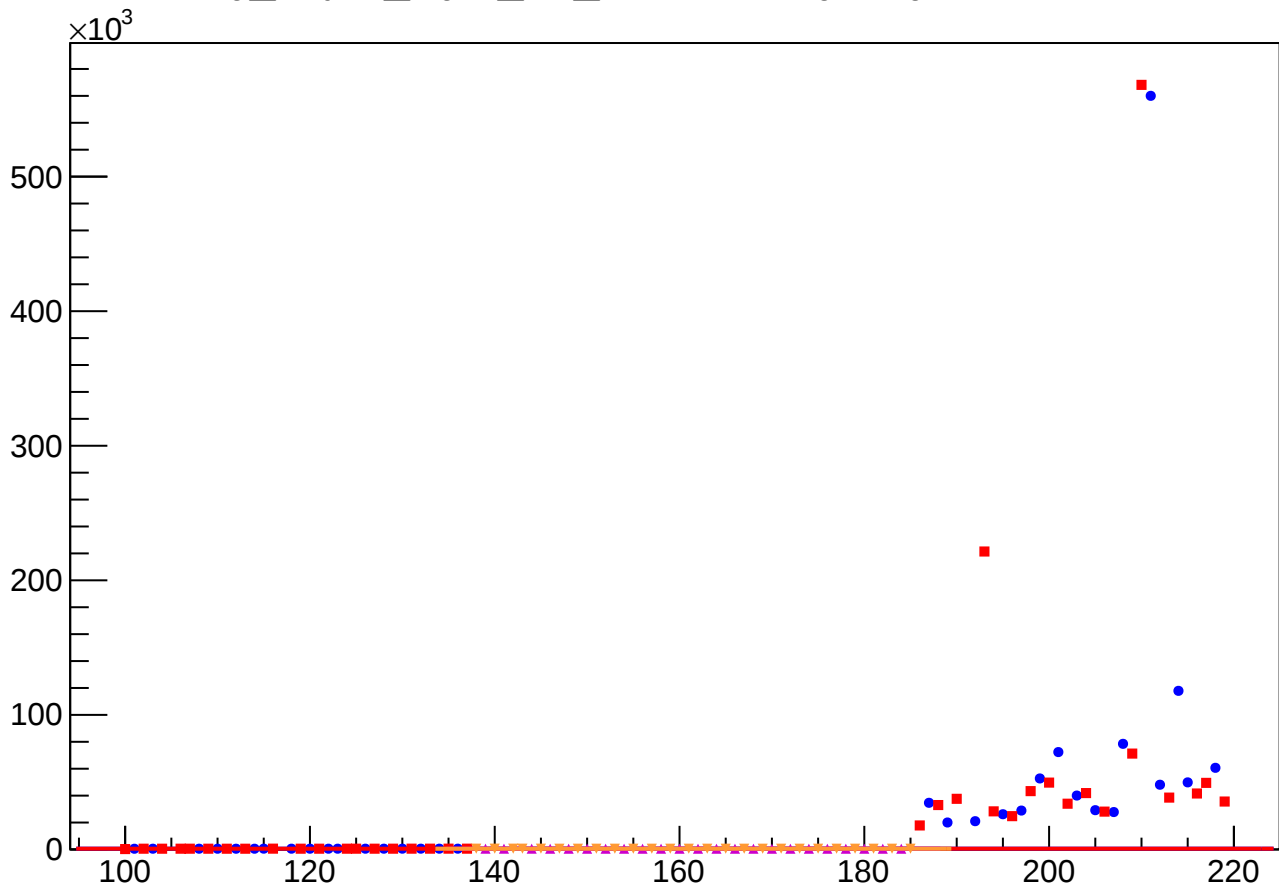
Right: 1145.309+/-150.989 χ^2/NDF : 49.0/65

In: 1231.363+/-113.850 χ^2/NDF : 52.0/54

Out: 1053.273+/-110.219 χ^2/NDF : 43.0/58

All: 1139.432+/-79.189 χ^2/NDF : 96.4/113

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 569.454 $\pm$ 0.155 χ^2 /NDF: 6467595.0/32

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

Right Out: 559.177 $\pm$ 0.147 χ^2 /NDF: 6612809.4/35

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

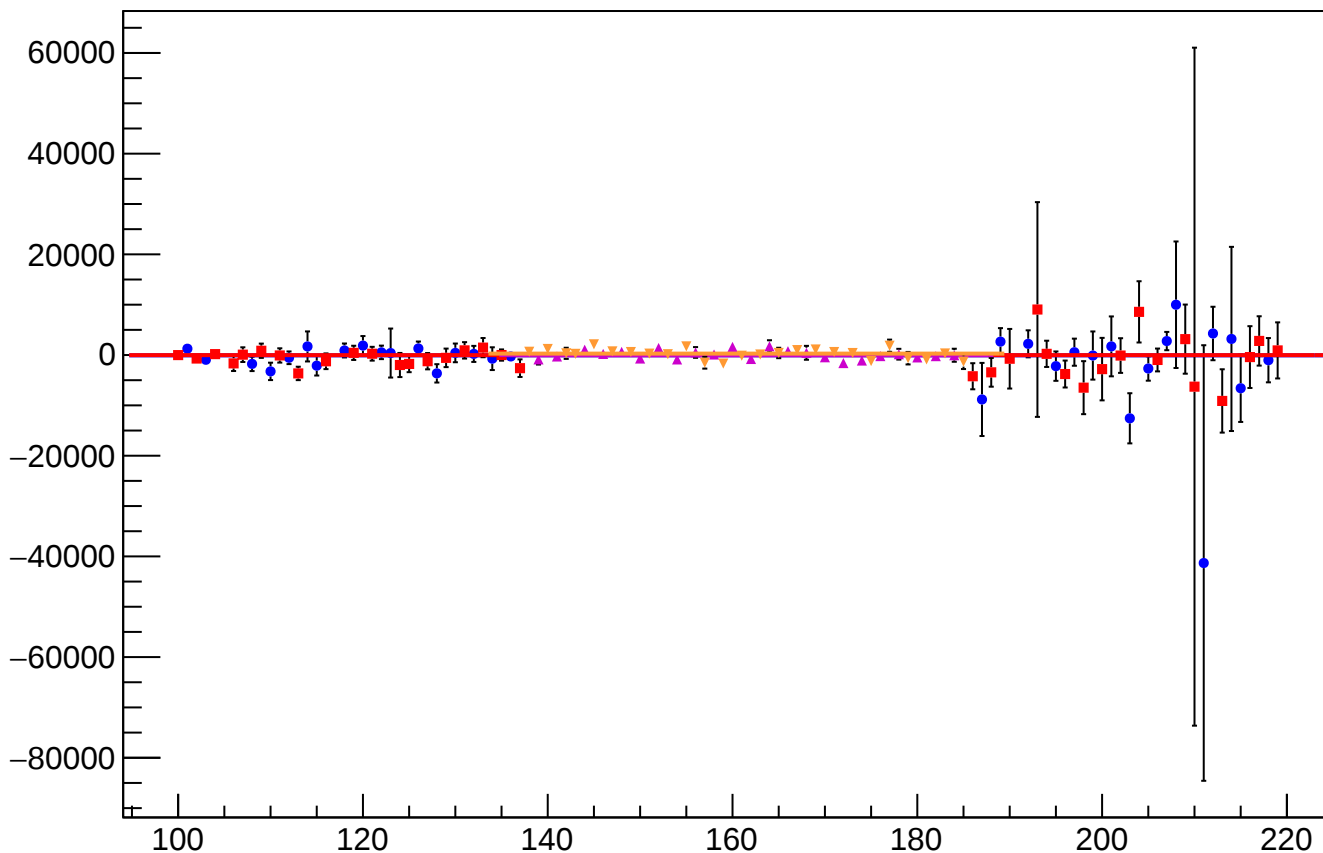
Right: 564.070 $\pm$ 0.107 χ^2 /NDF: 13082715.6/68

In: 560.806 $\pm$ 0.081 χ^2 /NDF: 6483154.5/55

Out: 558.400 $\pm$ 0.078 χ^2 /NDF: 6627633.1/60

All: 559.564 $\pm$ 0.056 χ^2 /NDF: 13111248.8/11

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -66.482+/-308.137 χ^2/NDF : 34.1/32

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

Right Out: -22.845+/-38.922 χ^2/NDF : 28.7/35

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

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

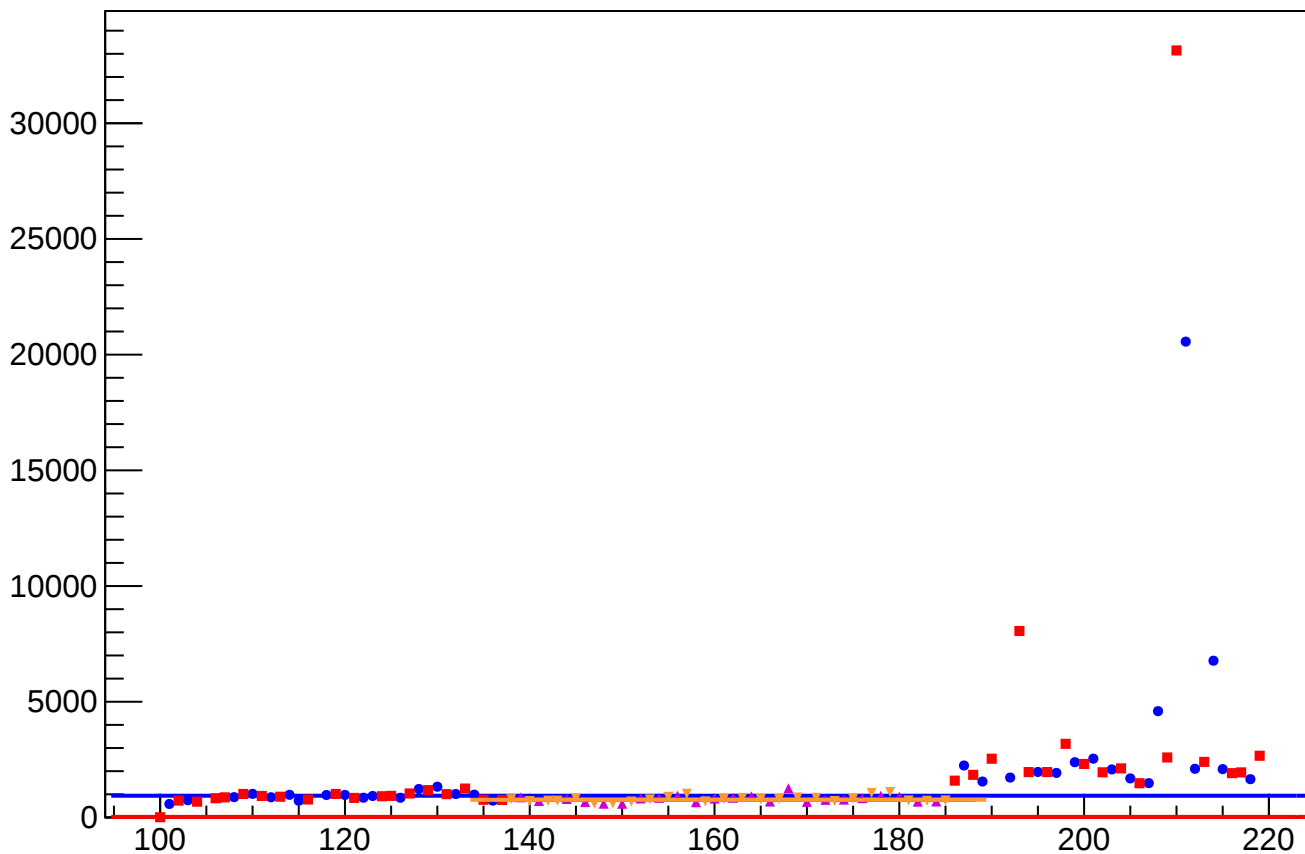
Right: -23.531+/-38.616 χ^2/NDF : 62.8/68

In: -22.795+/-157.644 χ^2/NDF :54.3/55

Out: -9.323+/-38.048 χ^2/NDF :58.2/60

All: -10.065+/-36.986 χ^2/NDF : 112.4/116

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 939.189 $\pm$ 0.218 χ^2 /NDF: 3522140.8/32

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

Right Out: 24.979 $\pm$ 0.028 χ^2 /NDF: 22545671.3/35

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

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

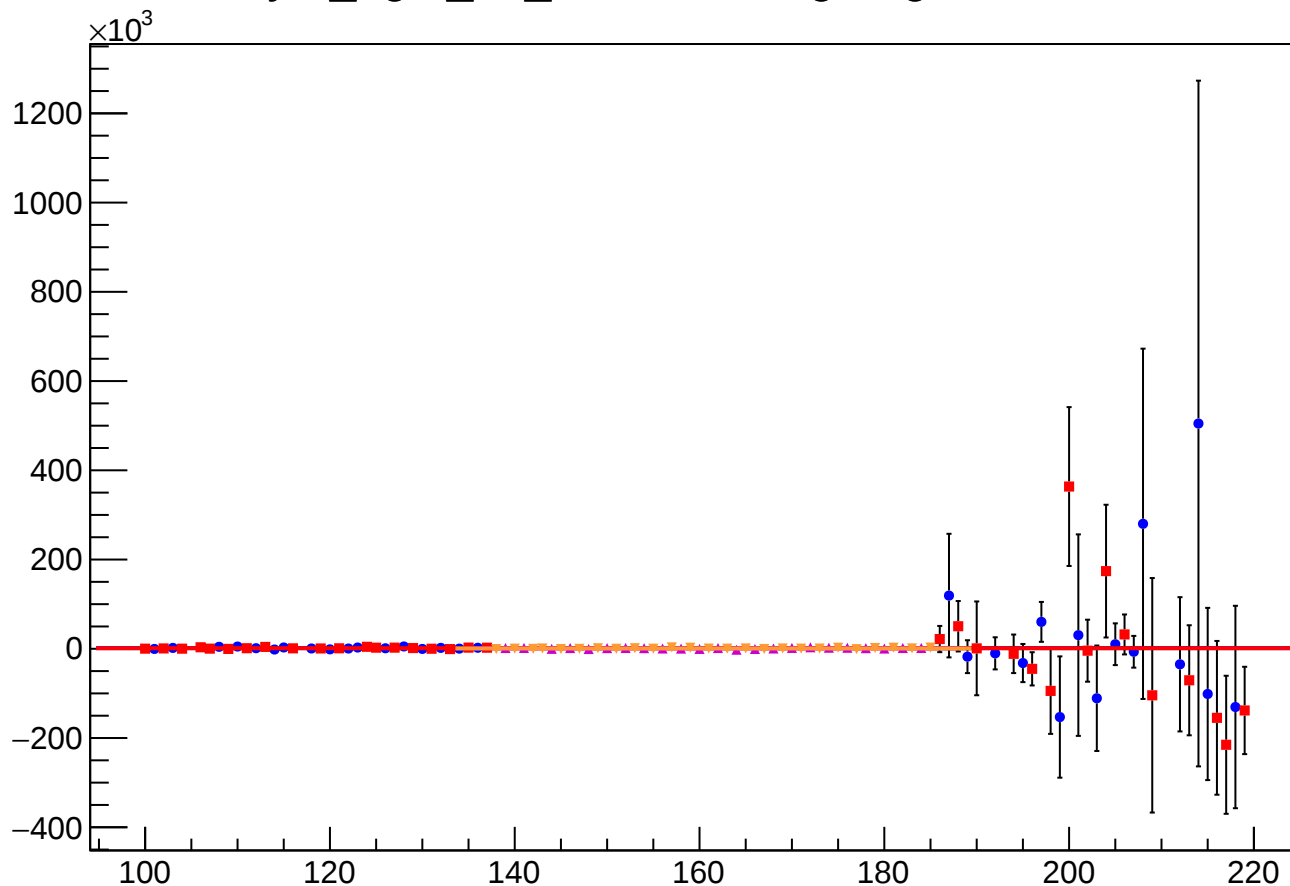
Right: 39.337 $\pm$ 0.027 χ^2 /NDF: 43396454.7/68

In: 802.828 $\pm$ 0.111 χ^2 /NDF: 4984219.3/55

Out: 57.793 $\pm$ 0.027 χ^2 /NDF: 55283573.9/60

All: 98.803 $\pm$ 0.026 χ^2 /NDF: 102480240.4/11

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1514.841 $\pm$ 402.756 χ^2/NDF : 25.2/31

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

Right Out: 1285.716 $\pm$ 376.573 χ^2/NDF : 27.5/33

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

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

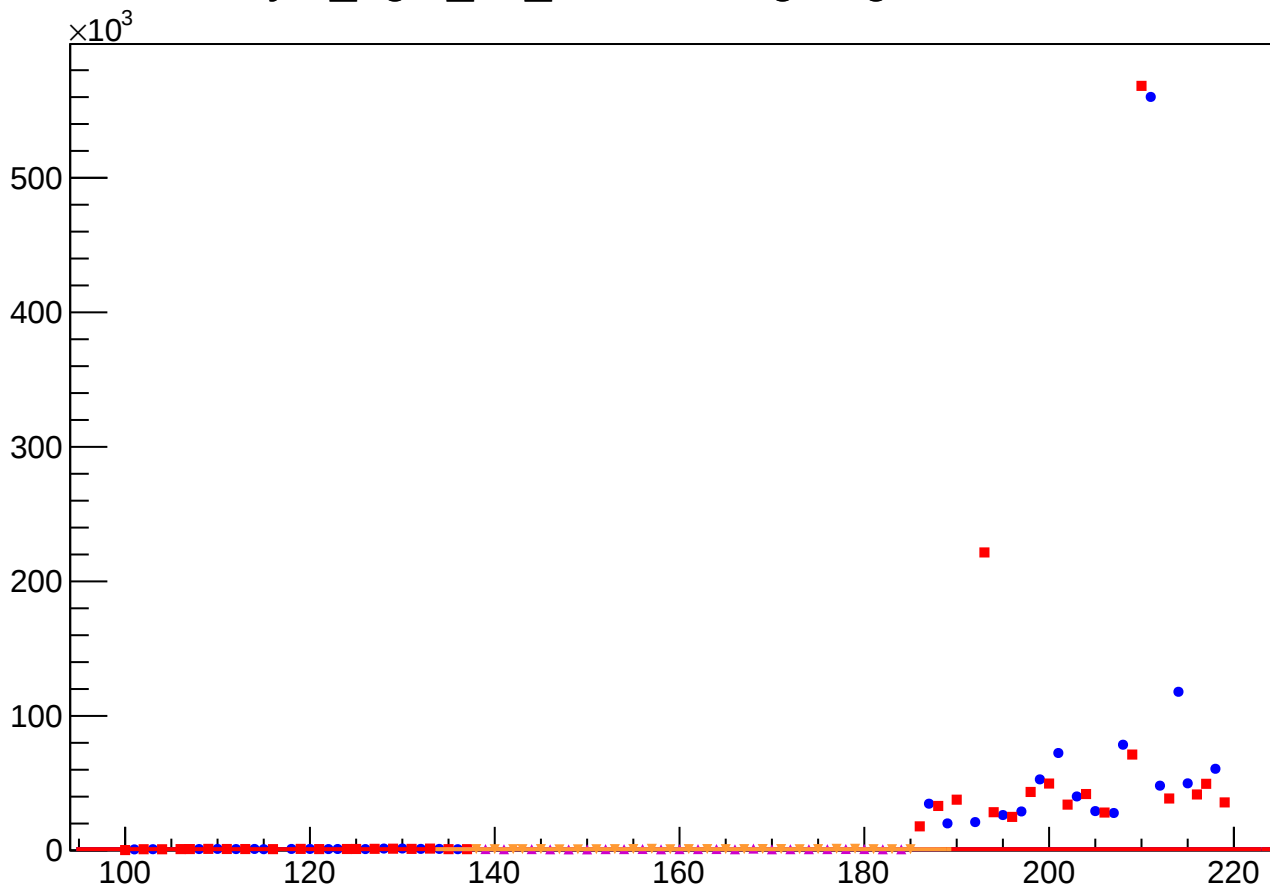
Right: 1392.589 $\pm$ 275.068 χ^2/NDF : 52.8/65

In: 1259.669 $\pm$ 199.877 χ^2/NDF : 49.9/54

Out: 886.264 $\pm$ 193.565 χ^2/NDF : 49.3/58

All: 1066.977 $\pm$ 139.049 χ^2/NDF : 101.0/113

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1040.115 $\pm$ 0.285 χ^2/NDF : 6593458.9/32

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

Right Out: 979.238 $\pm$ 0.266 χ^2/NDF : 7377932.1/35

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

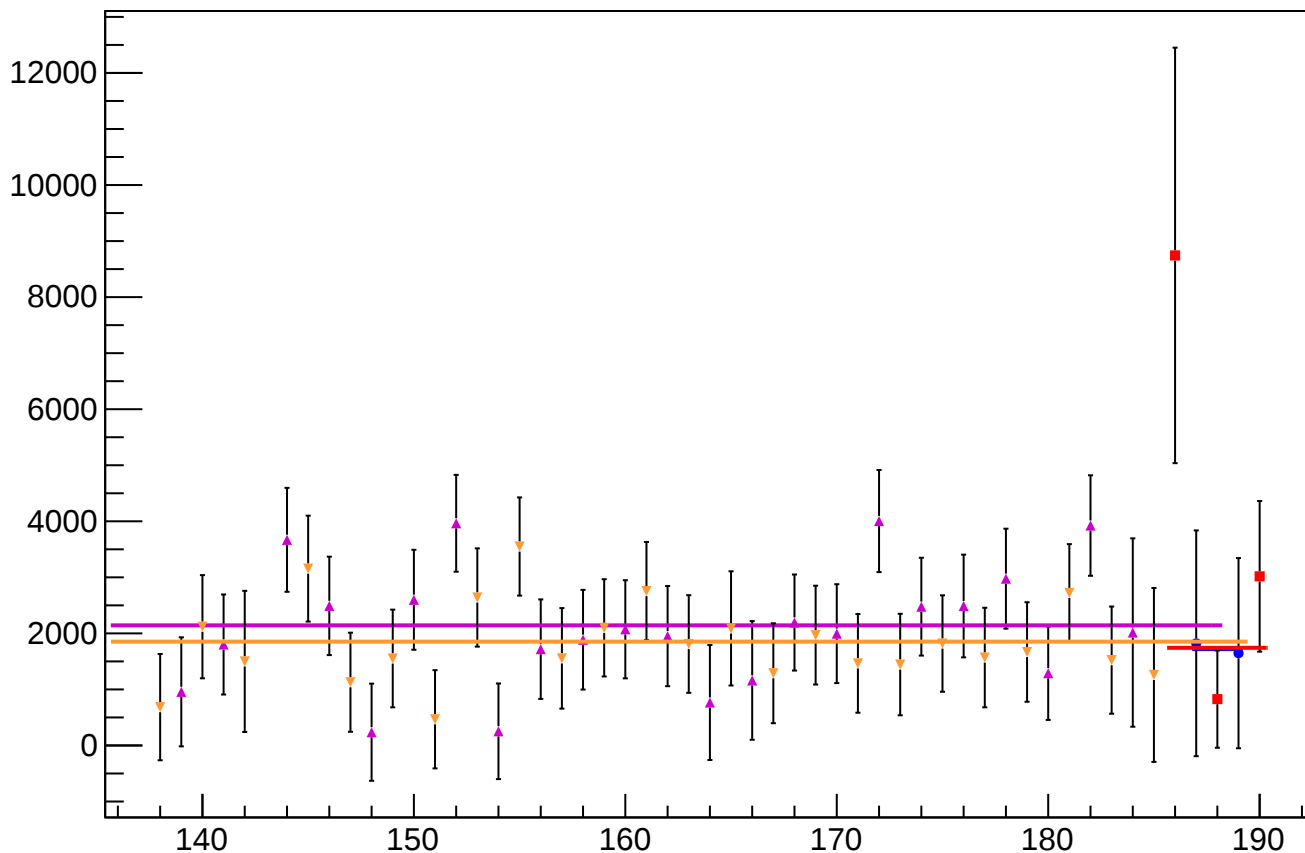
Right: 1007.633 $\pm$ 0.195 χ^2/NDF : 13995771.3/68

In: 976.212 $\pm$ 0.141 χ^2/NDF : 7103328.5/55

Out: 967.126 $\pm$ 0.137 χ^2/NDF : 7743581.9/60

All: 971.523 $\pm$ 0.098 χ^2/NDF : 14849043.1/111

cor_asym_us_avg_mean vs Slug, Sign Corrected



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

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

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

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

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

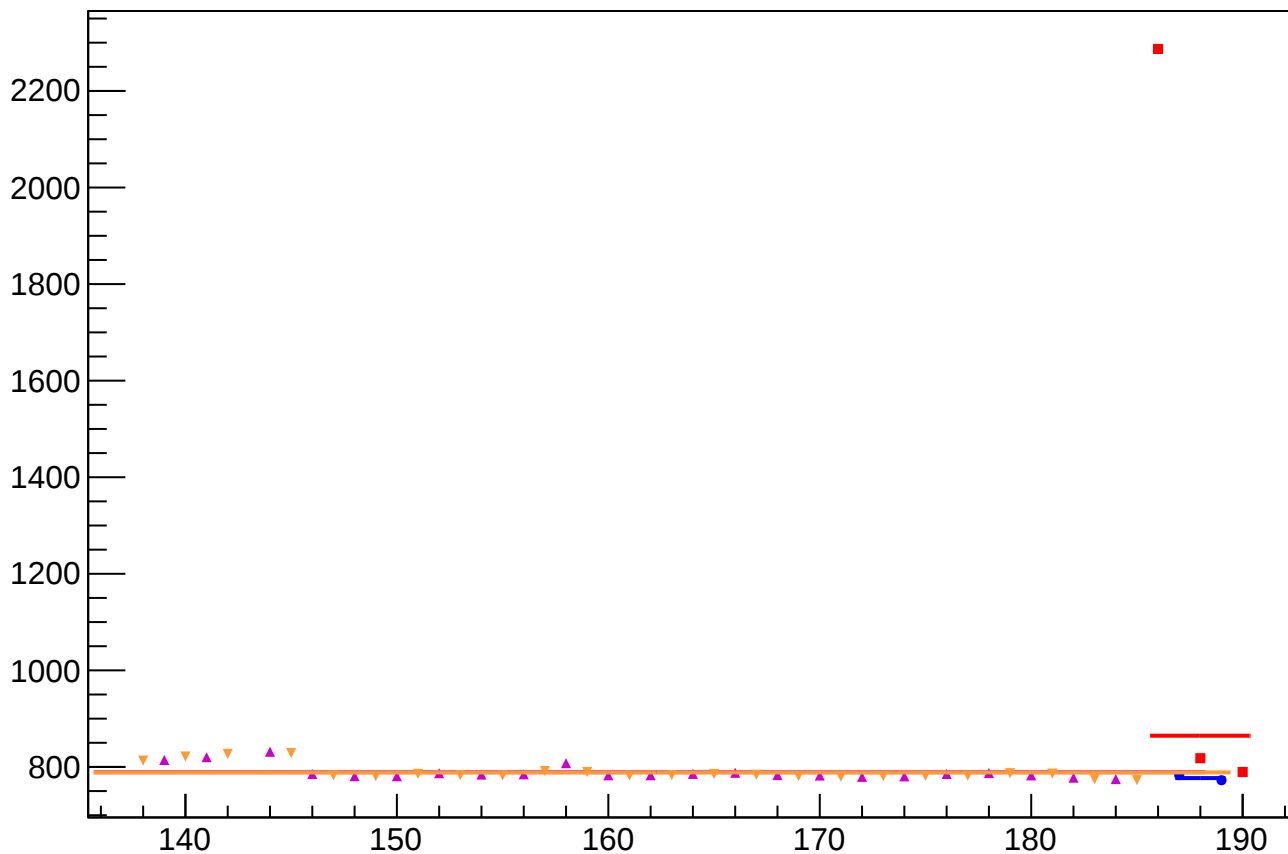
Right: 1737.192 $\pm$ 626.421 χ^2 /NDF: 5.6/4

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

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

All: 1984.750 $\pm$ 130.545 χ^2 /NDF: 54.3/51

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 776.892 ± 0.918 χ^2/NDF : 32.5/1

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

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

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

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

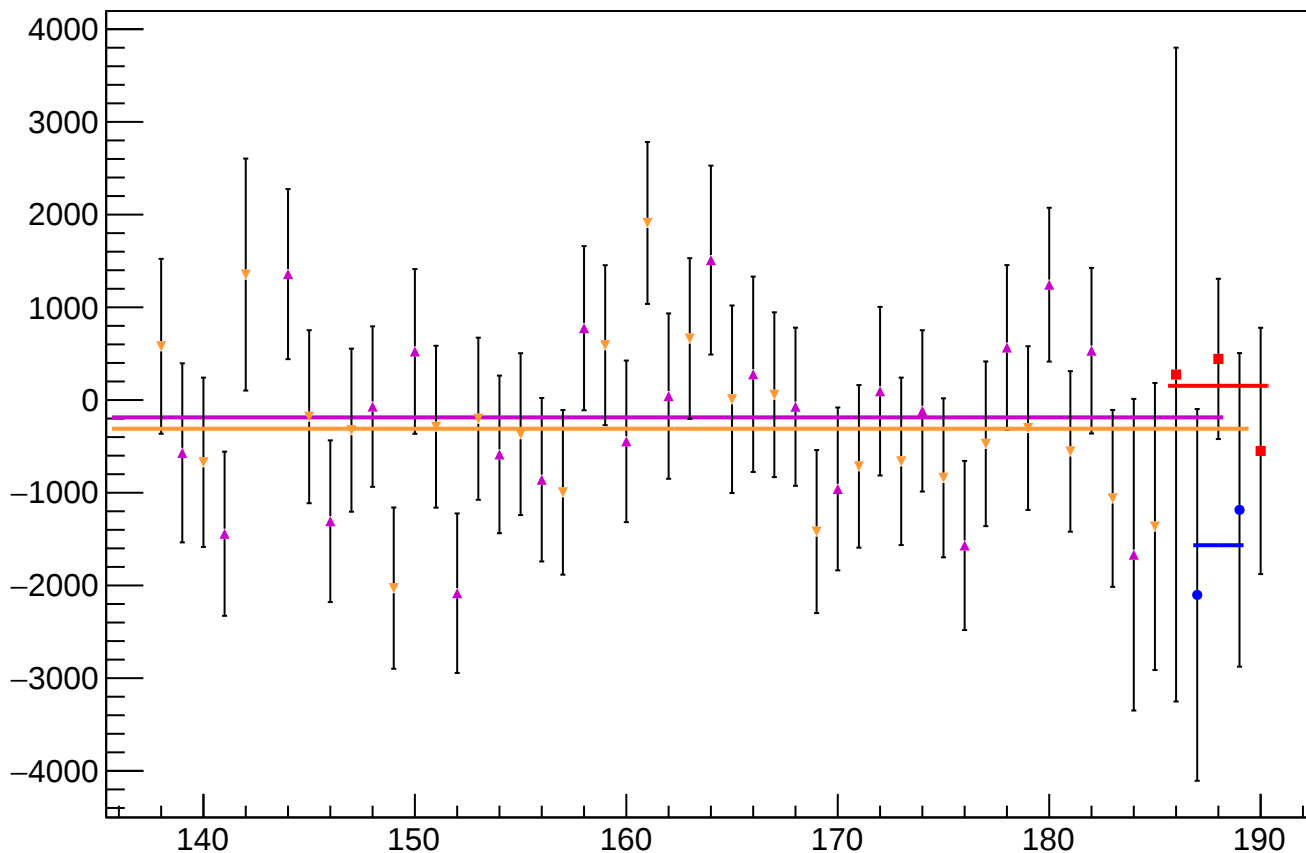
Right: 844.207 ± 0.443 χ^2/NDF : 313539.0/4

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

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

All: 791.315 ± 0.092 χ^2/NDF : 350812.6/51

cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -1566.105 $\pm$ 1292.689 χ^2 /NDF: 0.1/1

Left Out: -309.656 $\pm$ 186.542 χ^2 /NDF:20.0/23

Right Out: 153.360 $\pm$ 709.634 χ^2 /NDF: 0.4/2

Left In: -187.105 $\pm$ 189.265 χ^2 /NDF:25.6/22

Left: -249.268 $\pm$ 132.858 χ^2 /NDF: 45.8/46

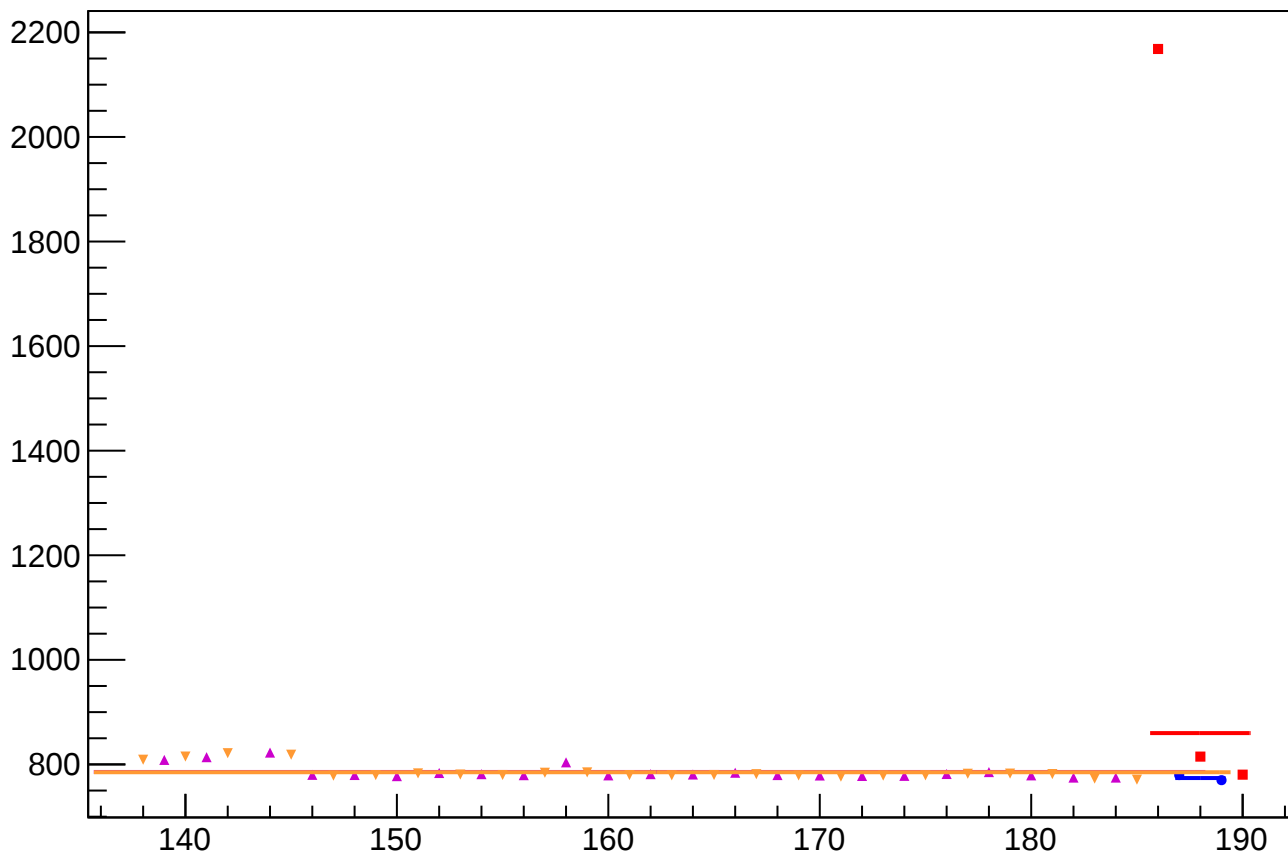
Right: -244.818 $\pm$ 622.066 χ^2 /NDF: 1.9/4

In: -216.045 $\pm$ 187.269 χ^2 /NDF:26.8/24

Out: -279.729 $\pm$ 180.413 χ^2 /NDF:20.8/26

All: -249.074 $\pm$ 129.927 χ^2 /NDF: 47.6/51

cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 773.922 ± 0.914 χ^2/NDF : 27.7/1

Left Out: 785.050 ± 0.132 χ^2/NDF : 9365.3/23

Right Out: 859.900 ± 0.502 χ^2/NDF : 287948.2/2

Left In: 785.562 ± 0.134 χ^2/NDF : 9033.0/22

Left: 785.302 ± 0.094 χ^2/NDF : 18405.7/46

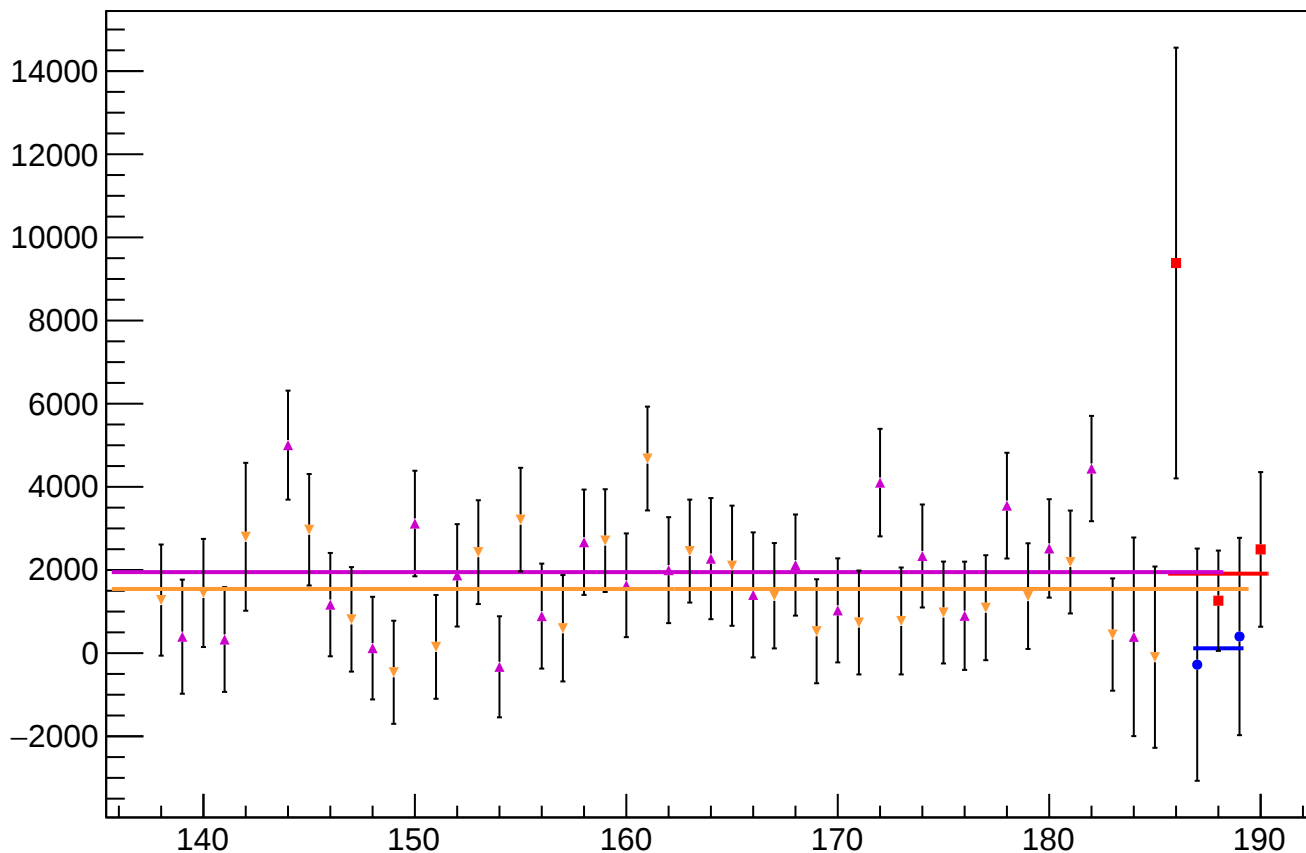
Right: 839.990 ± 0.440 χ^2/NDF : 294774.5/4

In: 785.318 ± 0.132 χ^2/NDF : 9219.5/24

Out: 789.888 ± 0.128 χ^2/NDF : 318126.2/26

All: 787.688 ± 0.092 χ^2/NDF : 327963.5/51

cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 116.401 $\pm$ 1808.672 χ^2 /NDF: 0.0/1

Left Out: 1543.729 $\pm$ 266.278 χ^2 /NDF:19.9/23

Right Out: 1911.693 $\pm$ 993.236 χ^2 /NDF: 2.5/2

Left In: 1949.077 $\pm$ 270.080 χ^2 /NDF:26.8/22

Left: 1743.530 $\pm$ 189.617 χ^2 /NDF: 47.8/46

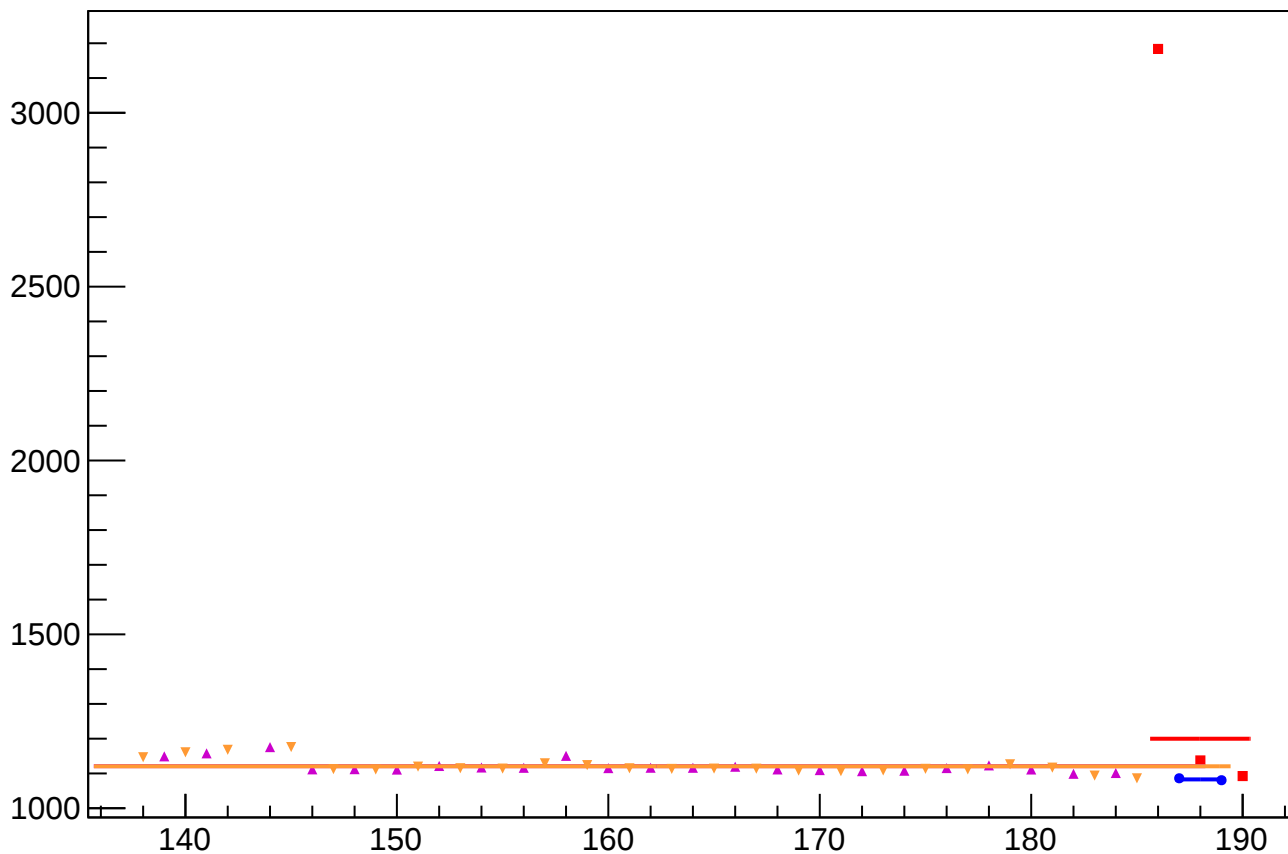
Right: 1495.731 $\pm$ 870.601 χ^2 /NDF: 3.3/4

In: 1909.103 $\pm$ 267.118 χ^2 /NDF:27.8/24

Out: 1568.402 $\pm$ 257.196 χ^2 /NDF:22.5/26

All: 1732.308 $\pm$ 185.274 χ^2 /NDF: 51.2/51

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1082.866+/-1.279 χ^2/NDF : 4.6/1

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

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

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

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

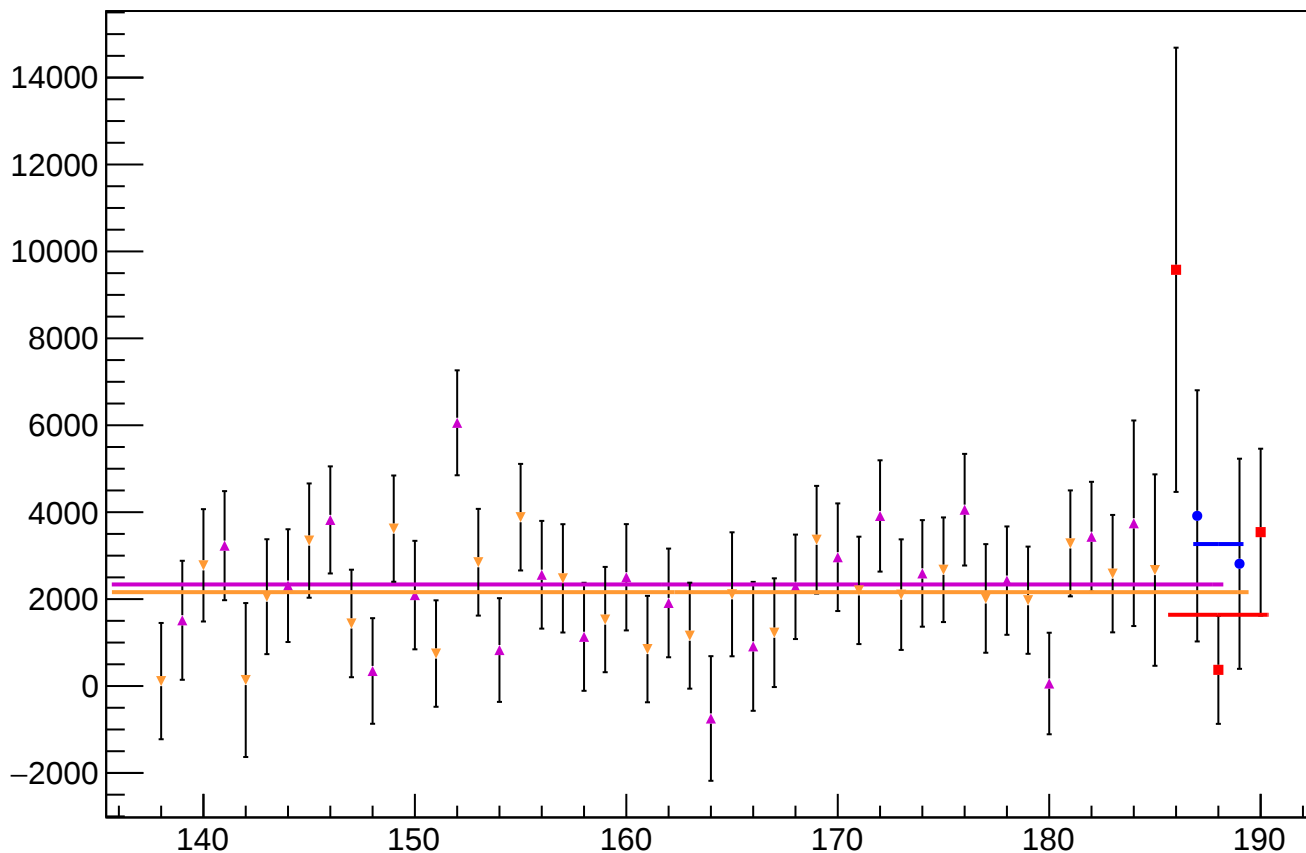
Right: 1172.741+/-0.616 χ^2/NDF : 311788.3/4

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

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

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

cor_asym_usr_mean vs Slug, Sign Corrected



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

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

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

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

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

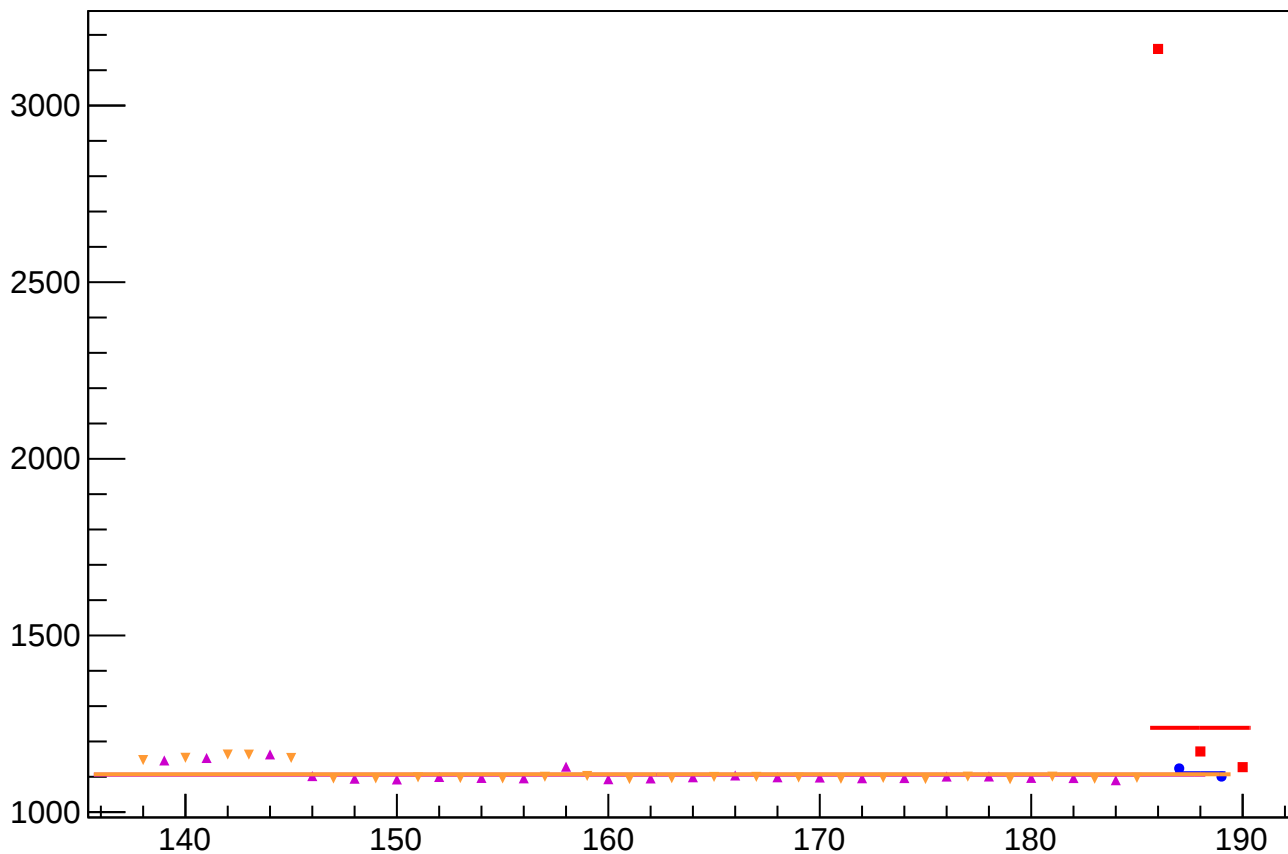
Right: 2018.696 $\pm$ 895.144 χ^2 /NDF: 5.1/4

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

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

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

cor_asym_usr_rms vs Slug, Sign Corrected



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

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

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

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

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

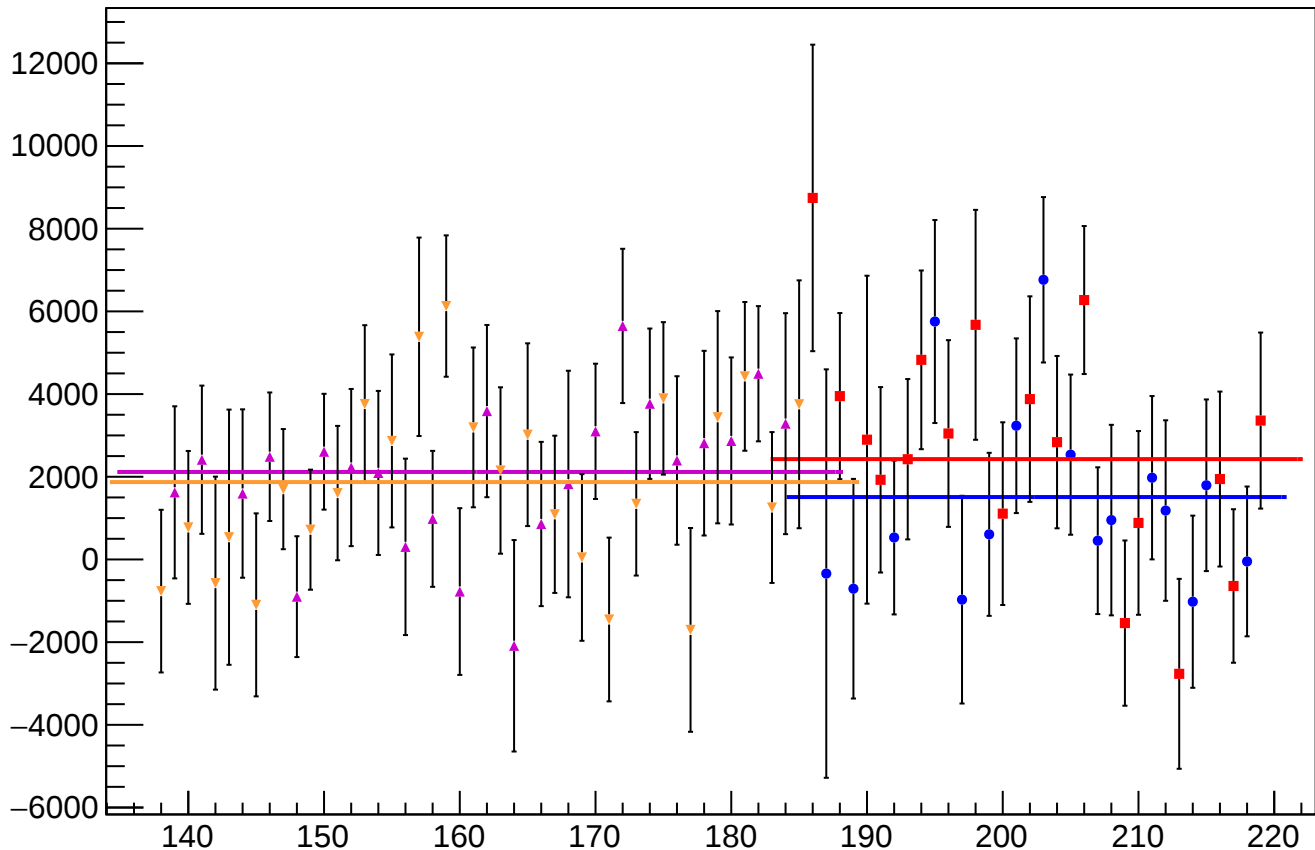
Right: 1208.687+/-0.633 χ^2/NDF : 302689.7/4

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

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

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

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 1509.135+/-532.017 χ^2/NDF : 15.9/15

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

Right Out: 2426.995+/-521.708 χ^2/NDF : 24.1/17

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

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

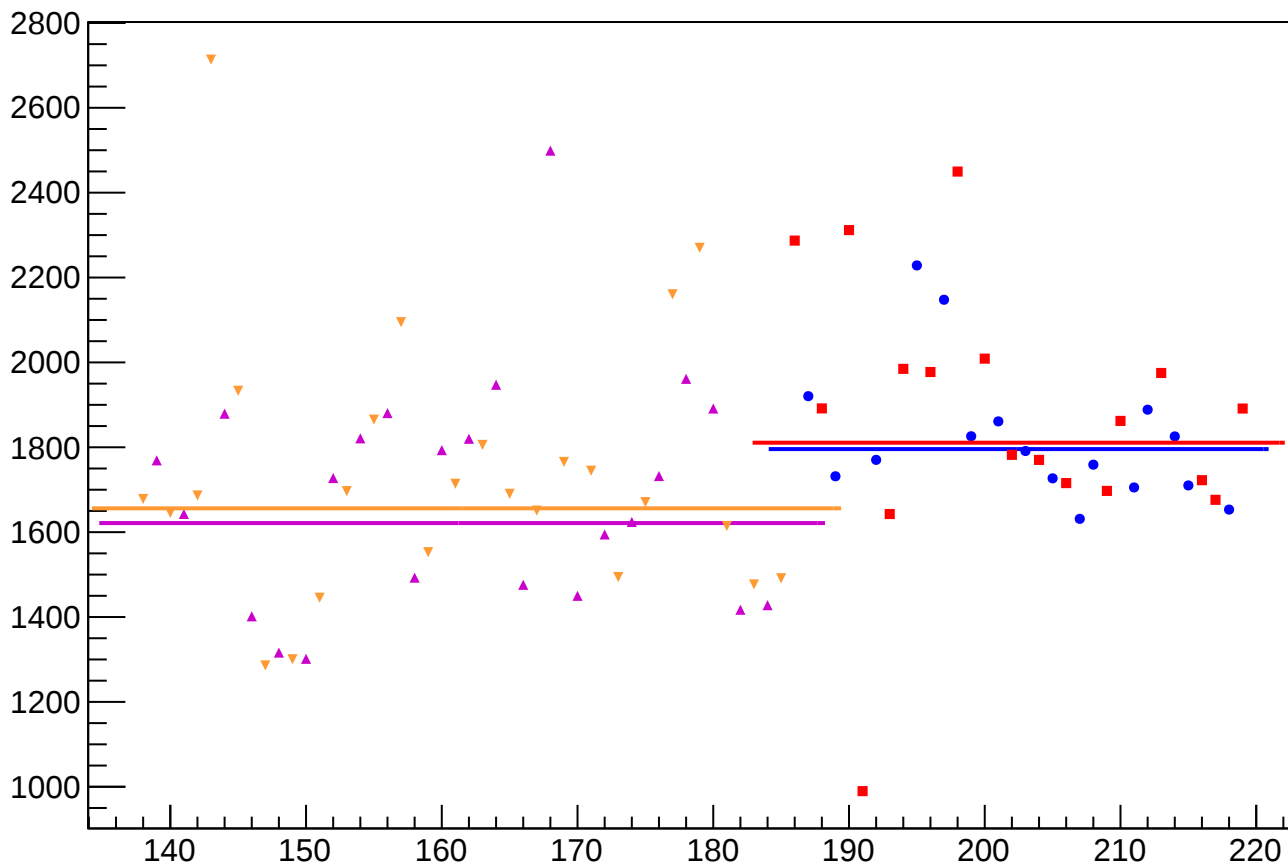
Right: 1977.044+/-372.495 χ^2/NDF : 41.5/33

In: 1901.833+/-316.105 χ^2/NDF : 35.5/38

Out: 2071.830+/-313.231 χ^2/NDF : 50.9/42

All: 1987.608+/-222.497 χ^2/NDF : 86.6/81

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1795.735 $\pm$ 0.376 χ^2 /NDF: 150830.5/15

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

Right Out: 1810.812 $\pm$ 0.369 χ^2 /NDF: 538153.9/17

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

Left: 1638.826 $\pm$ 0.196 χ^2 /NDF: 1693706.9/47

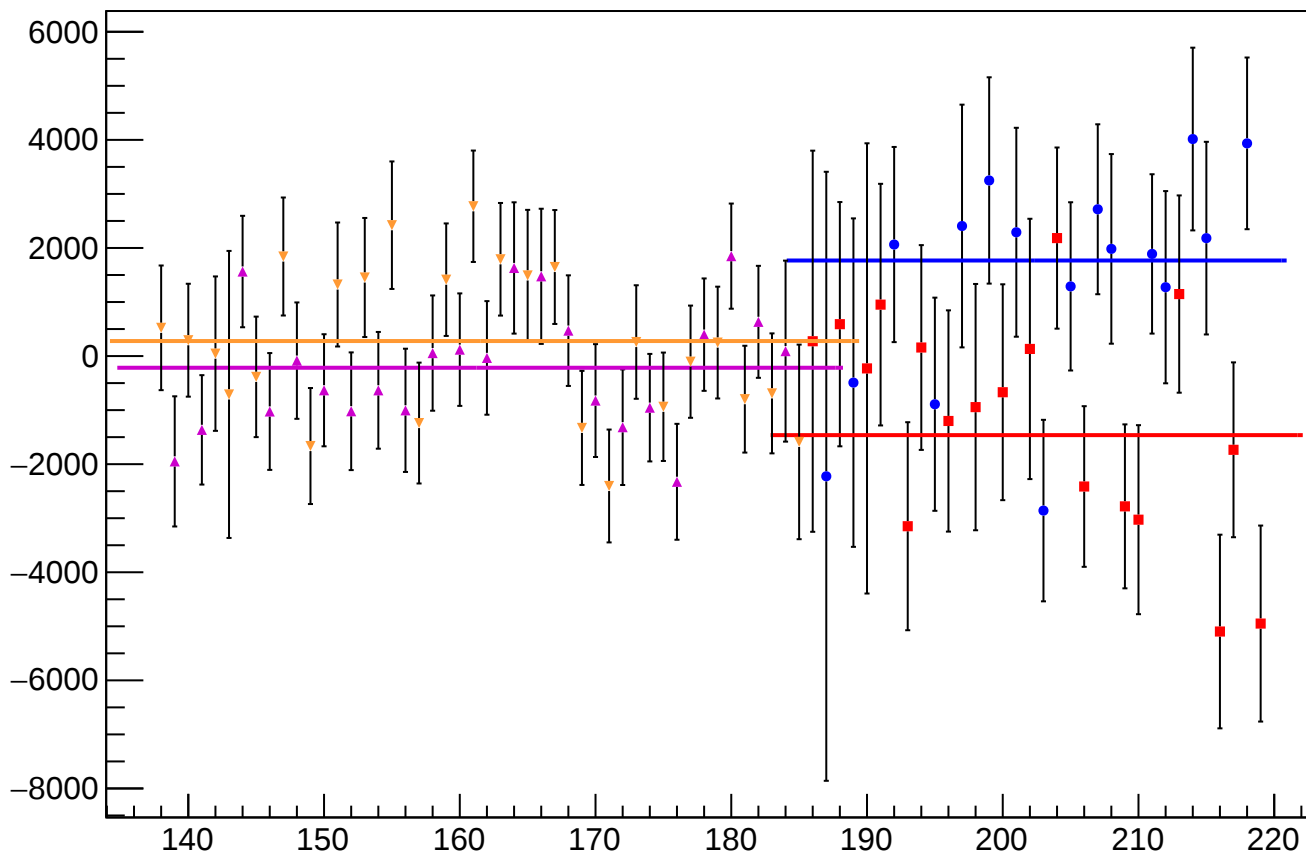
Right: 1803.421 $\pm$ 0.263 χ^2 /NDF: 689803.3/33

In: 1682.956 $\pm$ 0.224 χ^2 /NDF: 1065054.9/38

Out: 1711.882 $\pm$ 0.221 χ^2 /NDF: 1561181.5/42

All: 1697.551 $\pm$ 0.157 χ^2 /NDF: 2634686.5/83

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1768.173 $\pm$ 457.448 χ^2 /NDF: 15.5/15

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

Right Out: -1462.724 $\pm$ 456.162 χ^2 /NDF: 21.1/17

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

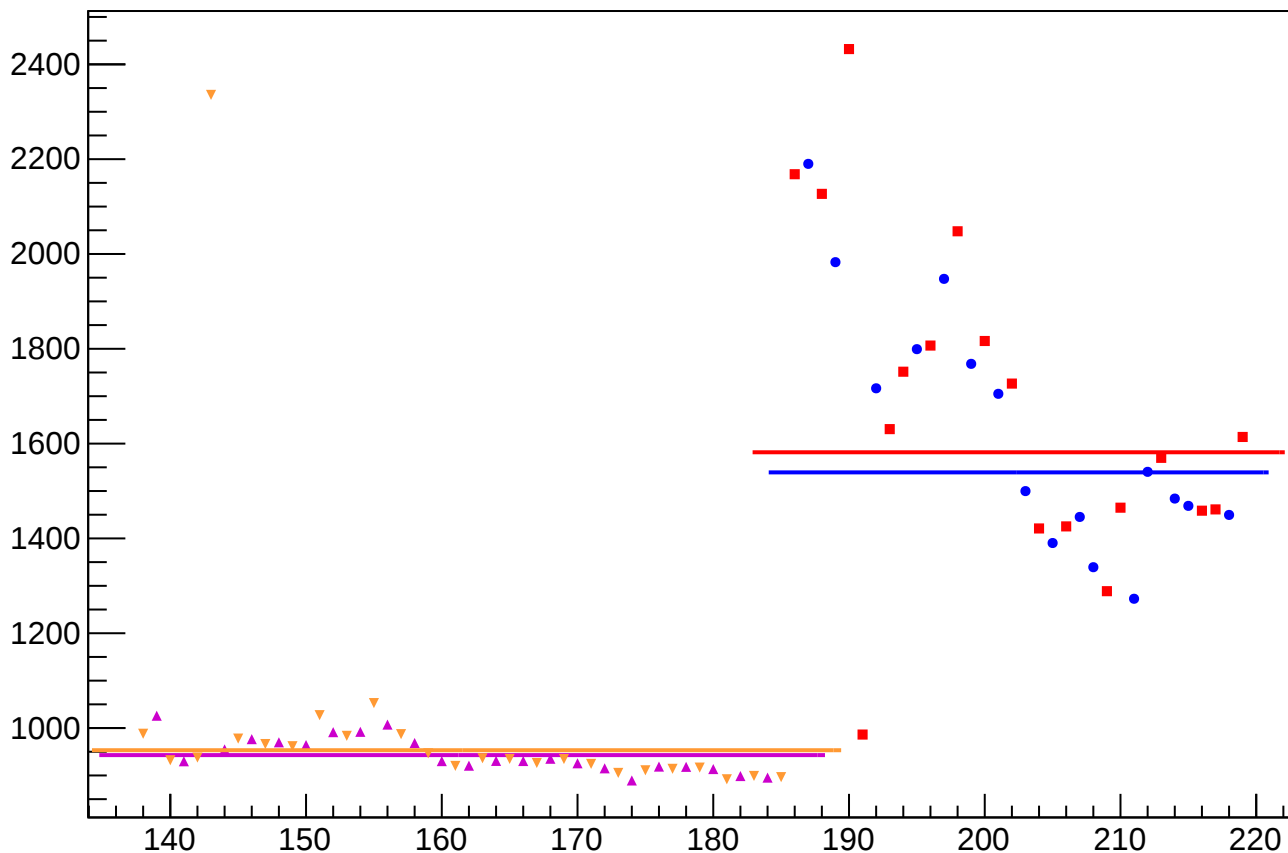
Right: 148.177 $\pm$ 323.009 χ^2 /NDF: 61.6/33

In: 172.078 $\pm$ 202.333 χ^2 /NDF: 55.0/38

Out: -59.104 $\pm$ 200.763 χ^2 /NDF: 71.2/42

All: 55.587 $\pm$ 142.512 χ^2 /NDF: 126.9/81

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1539.305 $\pm$ 0.323 χ^2 /NDF: 362555.0/15

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

Right Out: 1581.716 $\pm$ 0.323 χ^2 /NDF: 702583.6/17

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

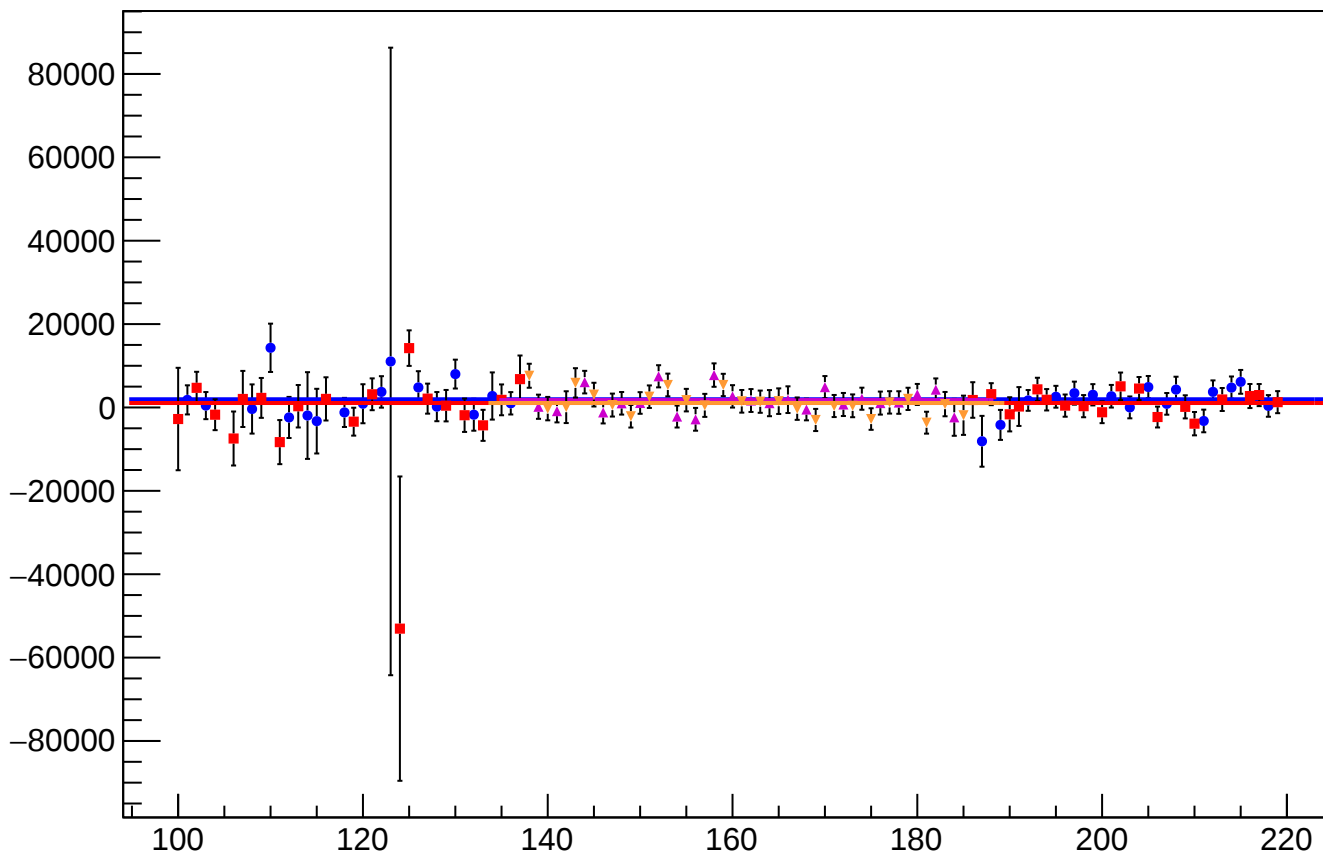
Right: 1560.570 $\pm$ 0.228 χ^2 /NDF: 1073758.0/33

In: 1059.600 $\pm$ 0.143 χ^2 /NDF: 3145239.5/38

Out: 1074.960 $\pm$ 0.142 χ^2 /NDF: 4370056.0/42

All: 1067.339 $\pm$ 0.101 χ^2 /NDF: 7521103.5/81

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1968.903 $\pm$ 575.563 χ^2 /NDF: 28.8/32

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

Right Out: 1067.843 $\pm$ 564.459 χ^2 /NDF: 36.7/36

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

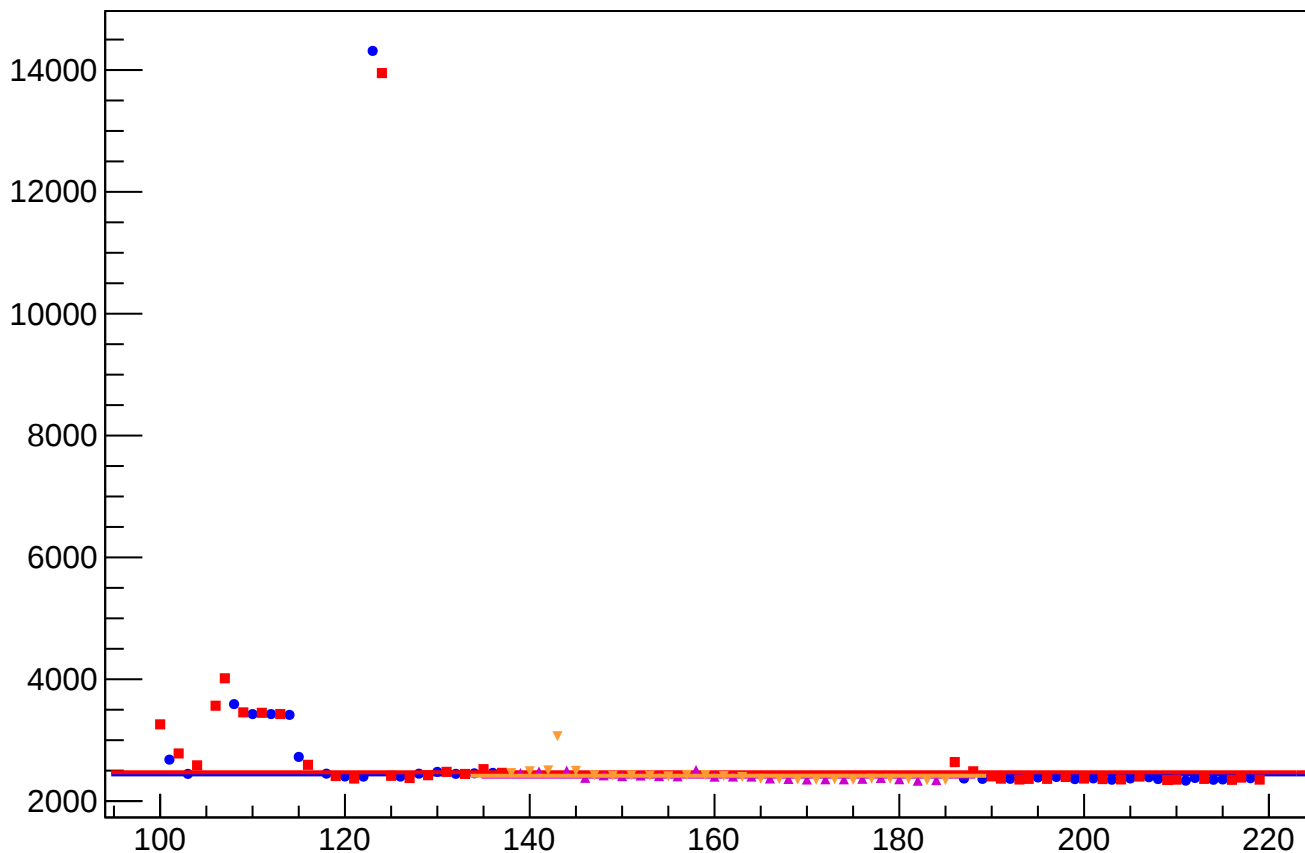
Right: 1509.597 $\pm$ 403.001 χ^2 /NDF: 66.7/69

In: 1873.057 $\pm$ 407.102 χ^2 /NDF: 52.9/55

Out: 1072.953 $\pm$ 398.972 χ^2 /NDF: 60.3/61

All: 1464.936 $\pm$ 284.947 χ^2 /NDF: 115.2/117

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2438.364+/-0.407 χ^2/NDF : 317473.8/32

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

Right Out: 2473.368+/-0.399 χ^2/NDF : 660086.1/36

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

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

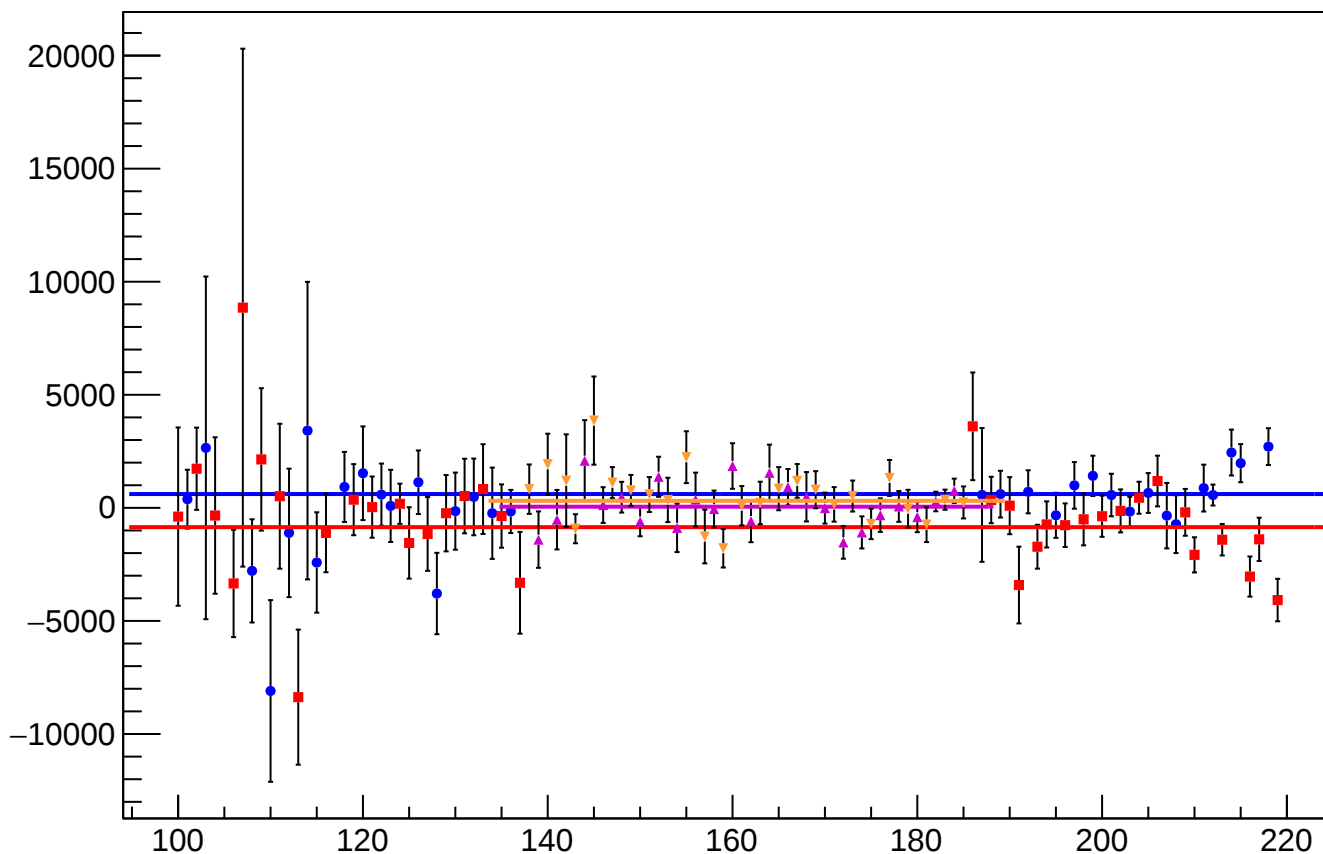
Right: 2456.207+/-0.285 χ^2/NDF : 981330.6/69

In: 2419.904+/-0.288 χ^2/NDF : 335338.8/55

Out: 2444.670+/-0.282 χ^2/NDF : 753052.8/61

All: 2432.537+/-0.201 χ^2/NDF : 1092167.4/111

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: 611.002 $\pm$ 194.997 χ^2 /NDF: 34.3/32

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

Right Out: -852.934 $\pm$ 199.353 χ^2 /NDF: 54.6/36

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

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

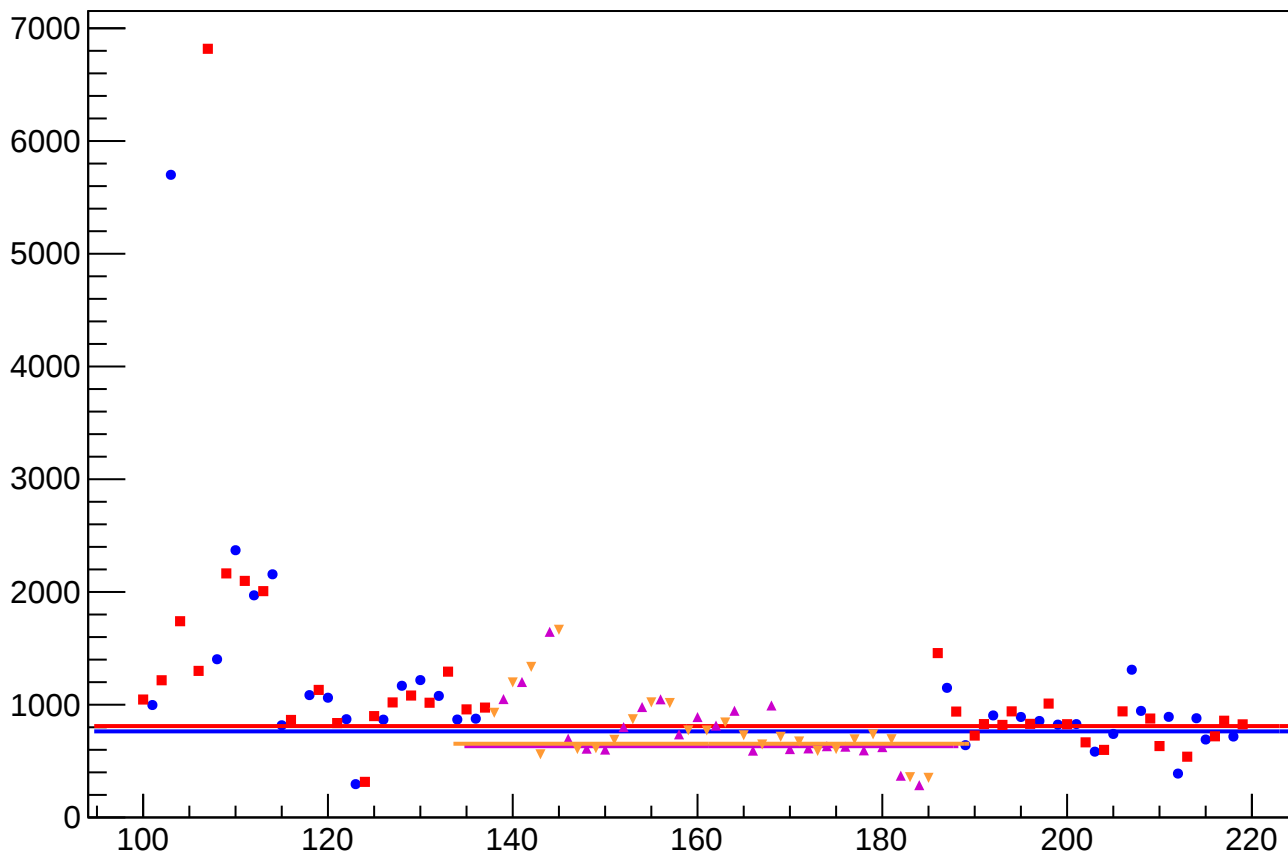
Right: -104.798 $\pm$ 139.398 χ^2 /NDF: 116.5/69

In: 279.520 $\pm$ 124.492 χ^2 /NDF:63.0/55

Out: -147.343 $\pm$ 125.088 χ^2 /NDF:105.0/61

All: 67.109 $\pm$ 88.239 χ^2 /NDF: 173.9/117

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 763.559+/-0.138 χ^2/NDF : 4546512.3/32

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

Right Out: 810.535+/-0.141 χ^2/NDF : 3857548.6/36

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

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

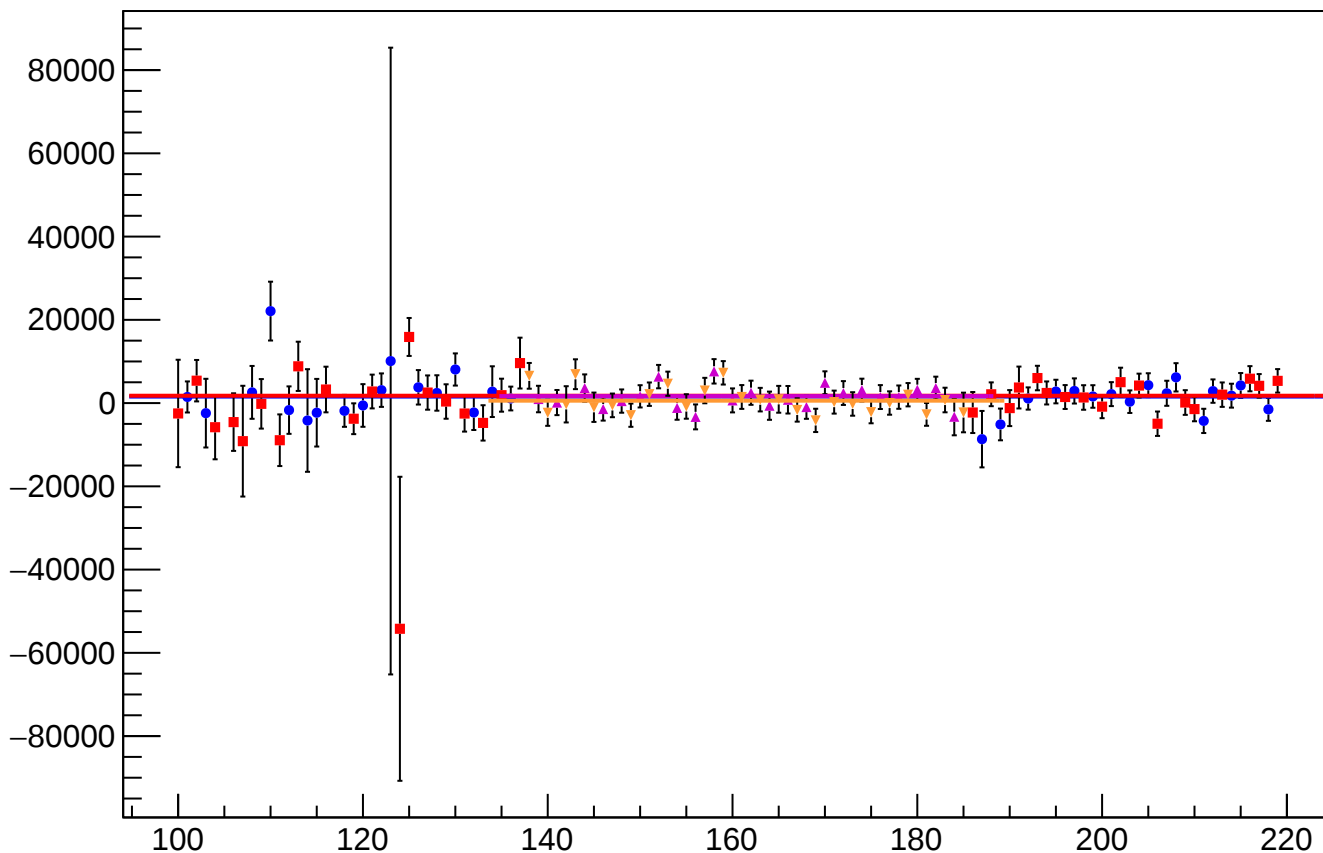
Right: 786.528+/-0.099 χ^2/NDF : 8460813.6/69

In: 685.654+/-0.088 χ^2/NDF : 9028244.5/55

Out: 715.512+/-0.088 χ^2/NDF : 7861746.7/61

All: 700.511+/-0.062 χ^2/NDF : 16947239.0/11

asym_atl1_mean vs Slug, Sign Corrected



Right In: 1567.509+/-629.237 χ^2/NDF : 29.8/32

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

Right Out: 1767.020+/-619.847 χ^2/NDF : 44.0/36

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

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

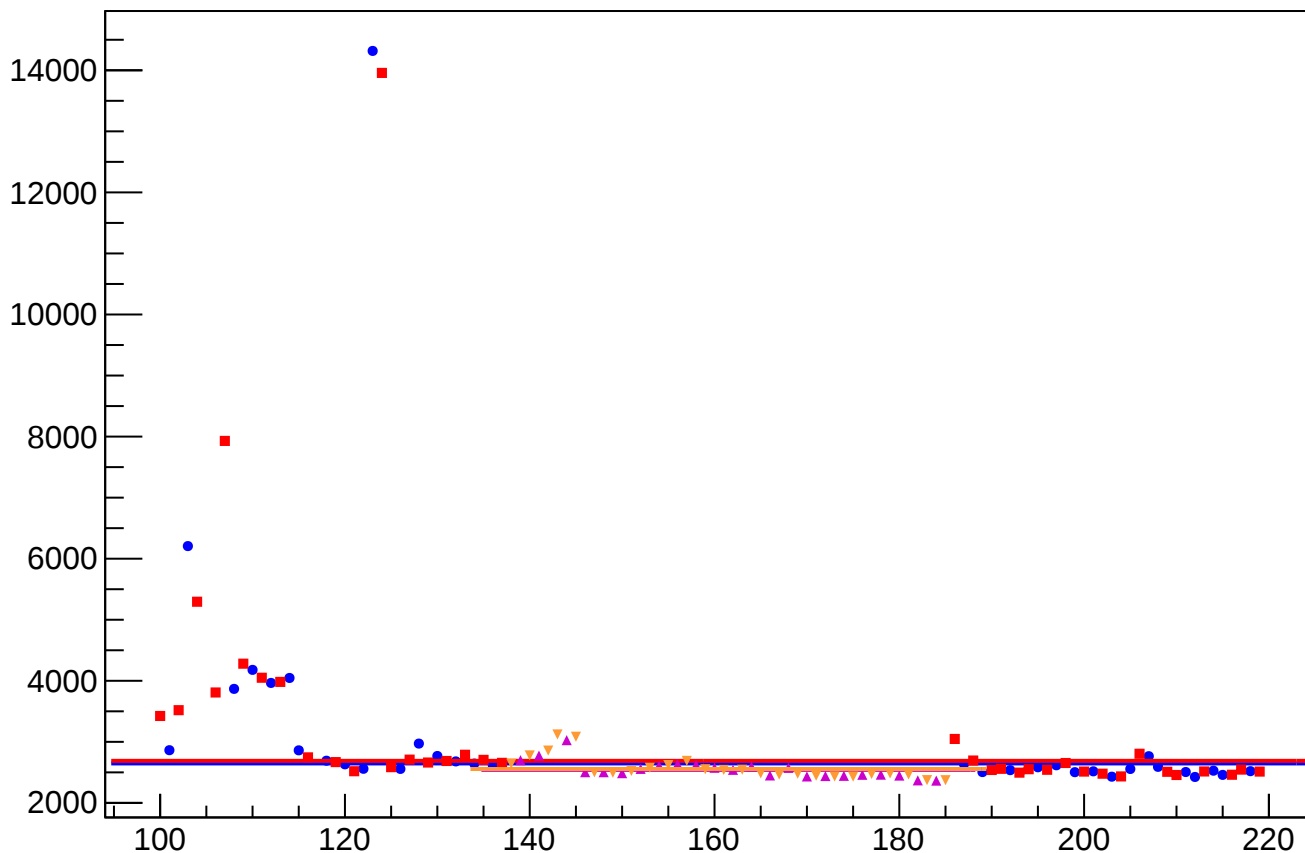
Right: 1668.764+/-441.581 χ^2/NDF : 73.8/69

In: 1625.269+/-438.019 χ^2/NDF : 48.0/55

Out: 1151.859+/-430.058 χ^2/NDF : 71.2/61

All: 1384.223+/-306.873 χ^2/NDF : 119.8/117

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2646.296 $\pm$ 0.445 χ^2 /NDF: 813810.7/32

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

Right Out: 2688.938 $\pm$ 0.438 χ^2 /NDF: 1304024.2/36

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

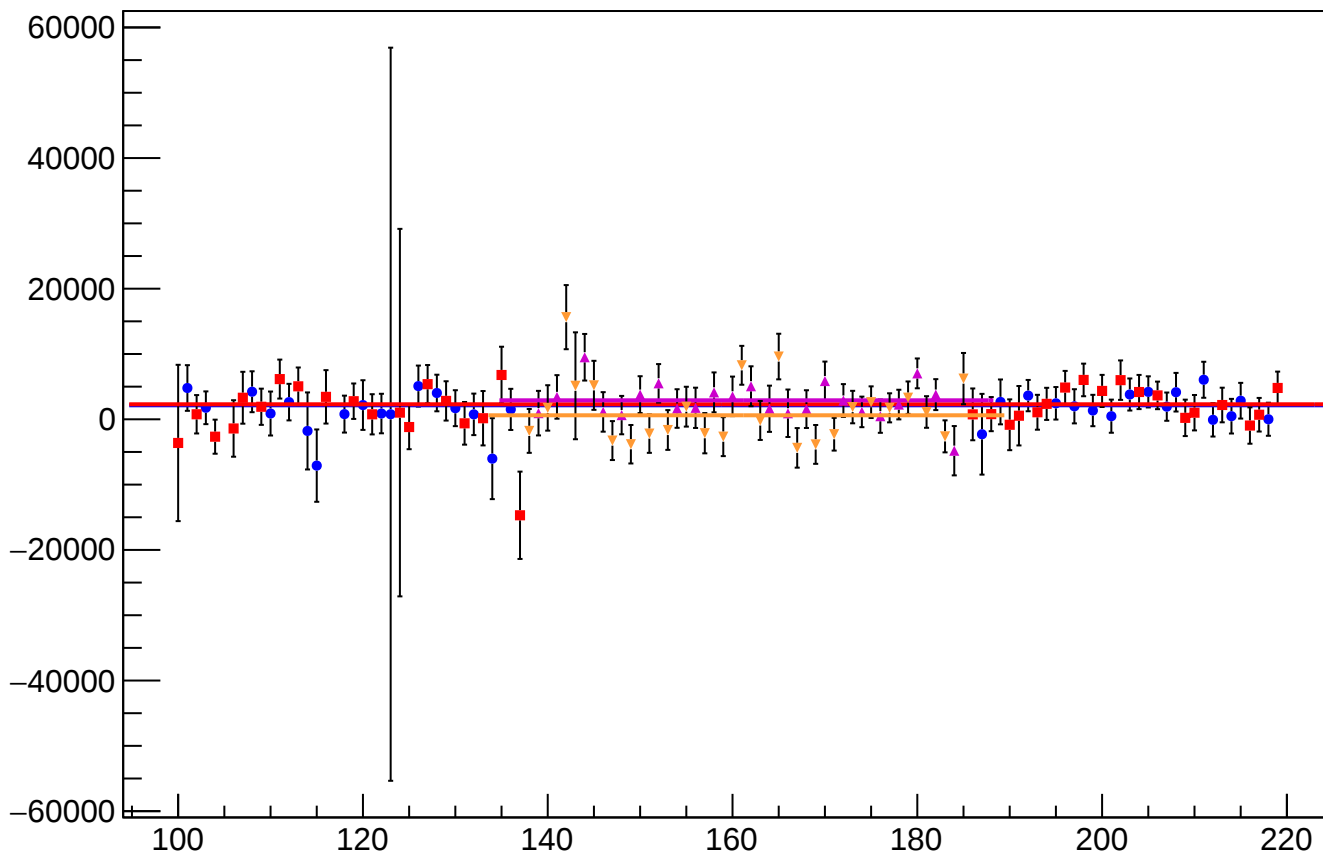
Right: 2667.938 $\pm$ 0.312 χ^2 /NDF: 2122496.4/69

In: 2592.017 $\pm$ 0.310 χ^2 /NDF:937440.9/55

Out: 2619.620 $\pm$ 0.304 χ^2 /NDF:1506997.2/61

All: 2606.072 $\pm$ 0.217 χ^2 /NDF: 2448482.0/11

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2144.764+/-511.726 χ^2/NDF : 15.2/32

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

Right Out: 2299.705+/-498.191 χ^2/NDF : 30.1/36

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

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

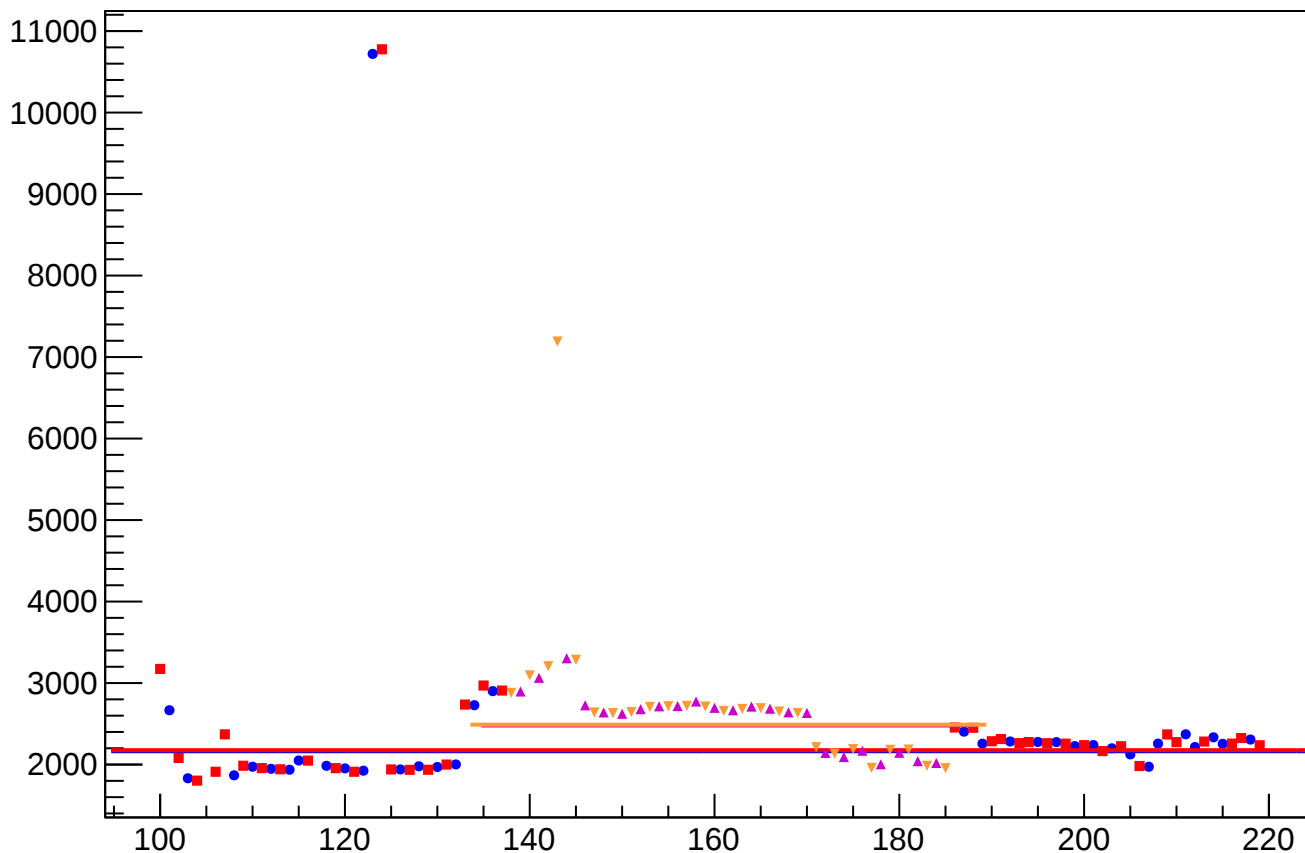
Right: 2224.311+/-356.964 χ^2/NDF : 45.4/69

In: 2466.828+/-389.262 χ^2/NDF : 33.6/55

Out: 1600.018+/-380.951 χ^2/NDF : 80.0/61

All: 2024.071+/-272.264 χ^2/NDF : 116.1/117

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2163.561 $\pm$ 0.362 χ^2 /NDF: 417488.8/32

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

Right Out: 2176.591 $\pm$ 0.352 χ^2 /NDF: 577722.4/36

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

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

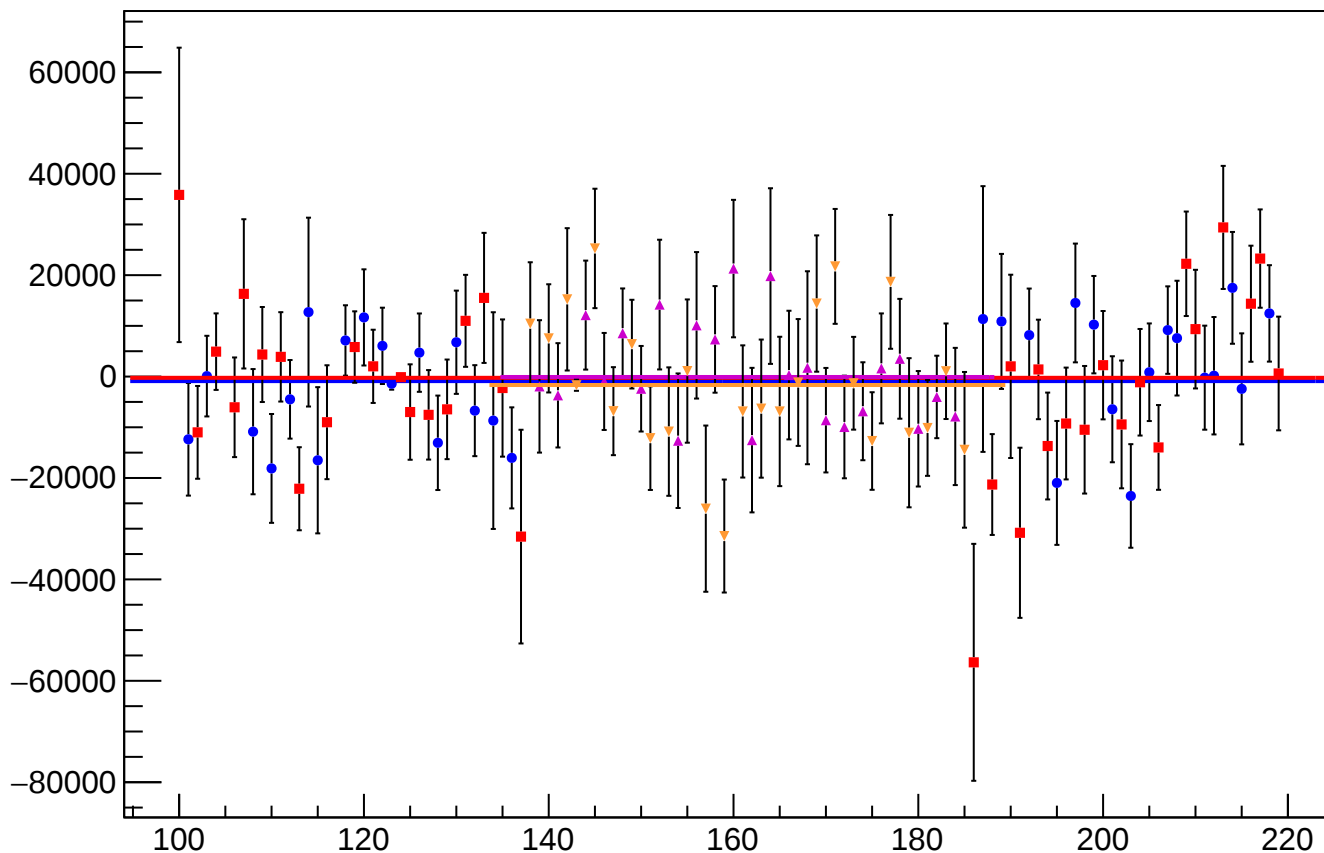
Right: 2170.251 $\pm$ 0.252 χ^2 /NDF: 995876.9/69

In: 2296.621 $\pm$ 0.275 χ^2 /NDF:1406808.3/55

Out: 2306.568 $\pm$ 0.269 χ^2 /NDF:2269744.0/61

All: 2301.702 $\pm$ 0.193 χ^2 /NDF: 3677219.4/11

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -895.666 ± 981.439 χ^2/NDF : 35.7/32

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

Right Out: -243.644 ± 672.834 χ^2/NDF : 59.8/36

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

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

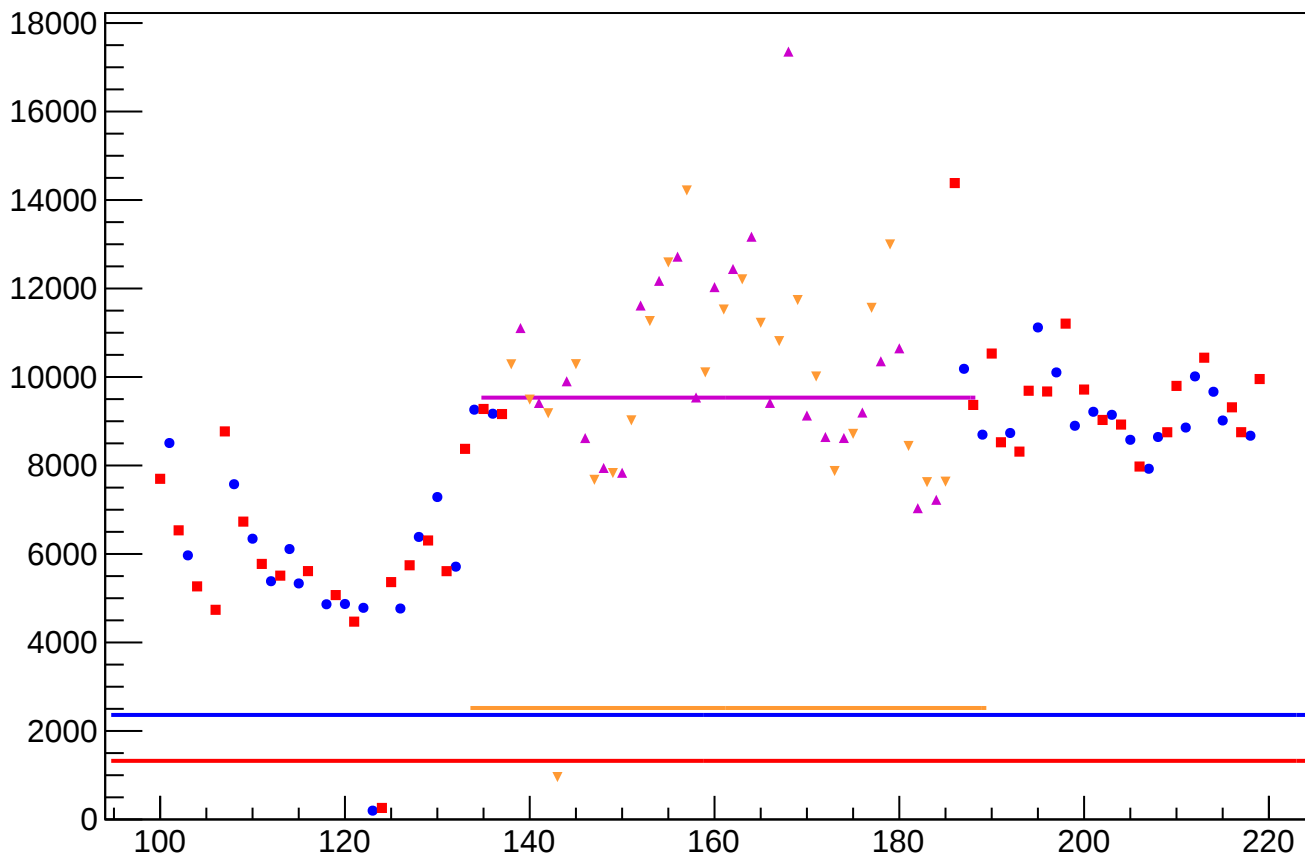
Right: -452.111 ± 554.946 χ^2/NDF : 95.8/69

In: -772.932 ± 904.565 χ^2/NDF : 49.6/55

Out: -690.970 ± 557.022 χ^2/NDF : 93.5/61

All: -713.504 ± 474.306 χ^2/NDF : 143.2/117

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 2362.166+/-0.694

χ^2/NDF : 24576057.5/32

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

Right: 1656.242+/-0.392 χ^2/NDF : 57049755.6/69

Left Out: 2519.359+/-0.702

χ^2/NDF : 23642118.3/24

In: 3441.611+/-0.640 χ^2/NDF : 41966101.9/55

Right Out: 1324.464+/-0.476

χ^2/NDF : 30952681.1/36

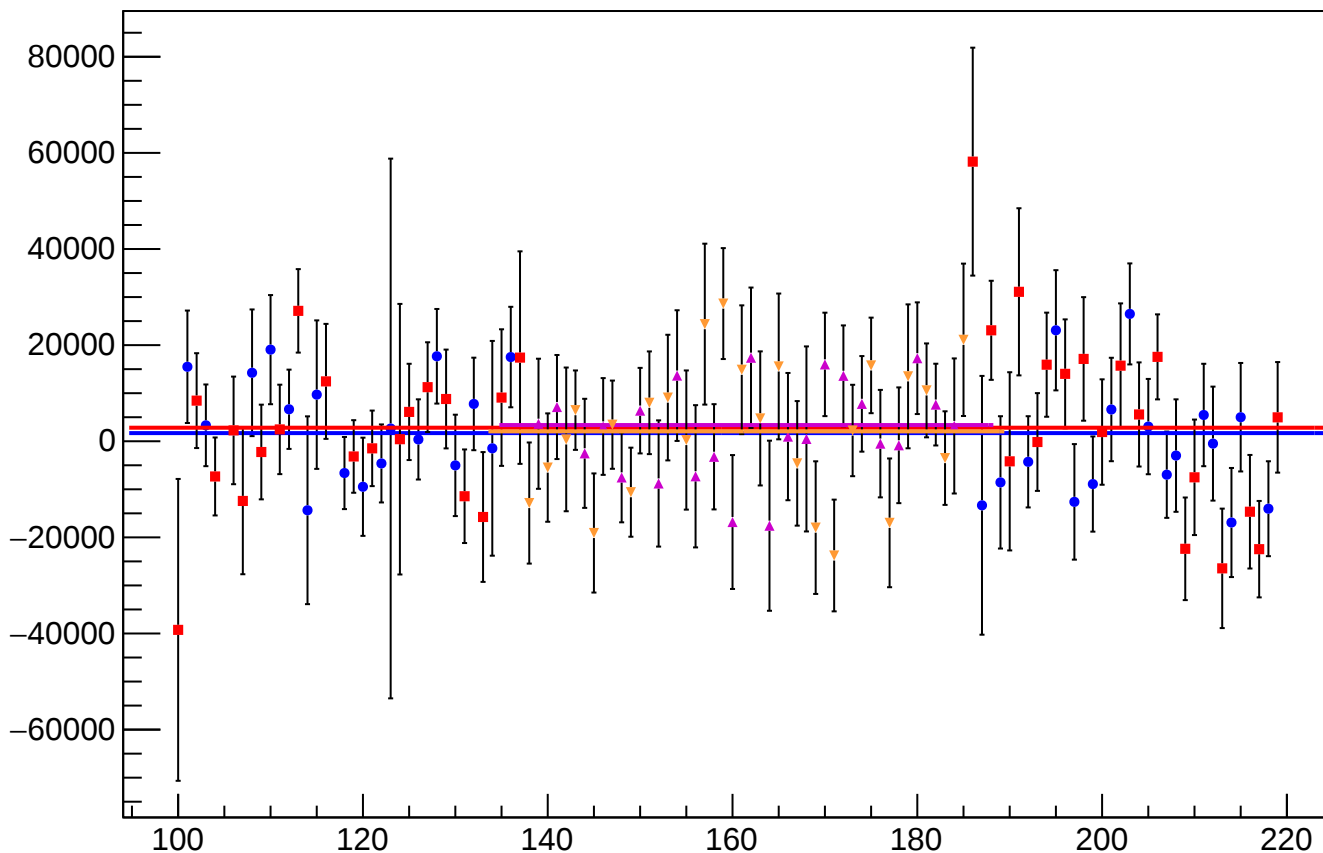
Out: 1700.408+/-0.394 χ^2/NDF : 56579370.6/61

Left In: 9533.563+/-1.649

χ^2/NDF : 1316640.0/22

All: 2179.135+/-0.335 χ^2/NDF : 103918550.4

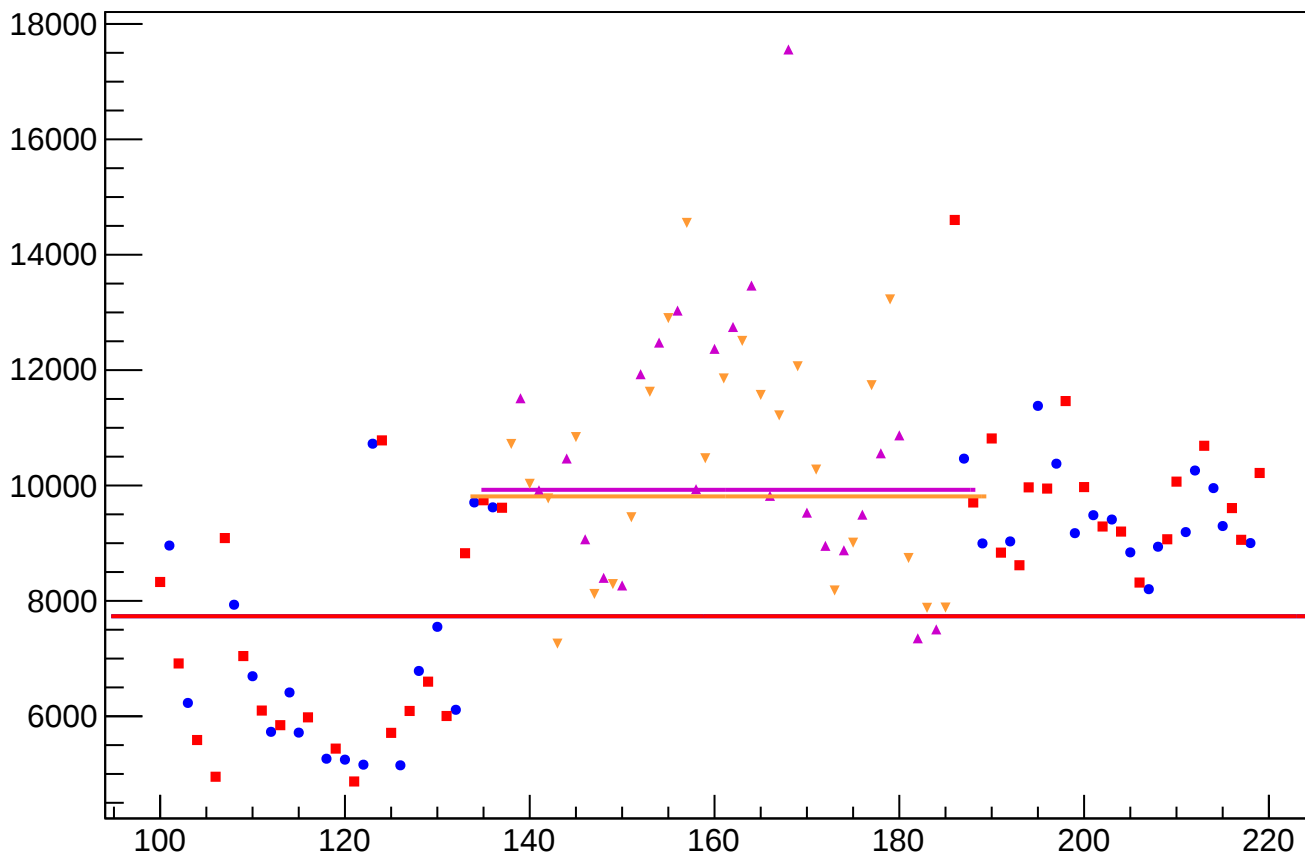
asym_atl2_mean vs Slug, Sign Corrected



Right In: 1695.924+/-1872.356 χ^2/NDF : 33.9/32
Left Out: 2055.950+/-2333.494 χ^2/NDF : 30.7/24
Right Out: 2818.677+/-1820.857 χ^2/NDF : 60.4/36
Left In: 3371.931+/-2423.242 χ^2/NDF : 13.1/22

Left: 2689.120+/-1680.862 χ^2/NDF : 44.0/47
Right: 2272.954+/-1305.367 χ^2/NDF : 94.5/69
In: 2322.467+/-1481.611 χ^2/NDF : 47.3/55
Out: 2530.021+/-1435.532 χ^2/NDF : 91.2/61
All: 2429.522+/-1030.980 χ^2/NDF : 138.5/117

asym_atl2_rms vs Slug, Sign Corrected



Right In: 7733.503+/-1.324 χ^2/NDF : 1968645.2/32

Left Out: 9811.053+/-1.650 χ^2/NDF : 1213831.0/24

Right Out: 7733.769+/-1.287 χ^2/NDF : 2479625.6/36

Left In: 9925.337+/-1.713 χ^2/NDF : 1211554.7/22

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

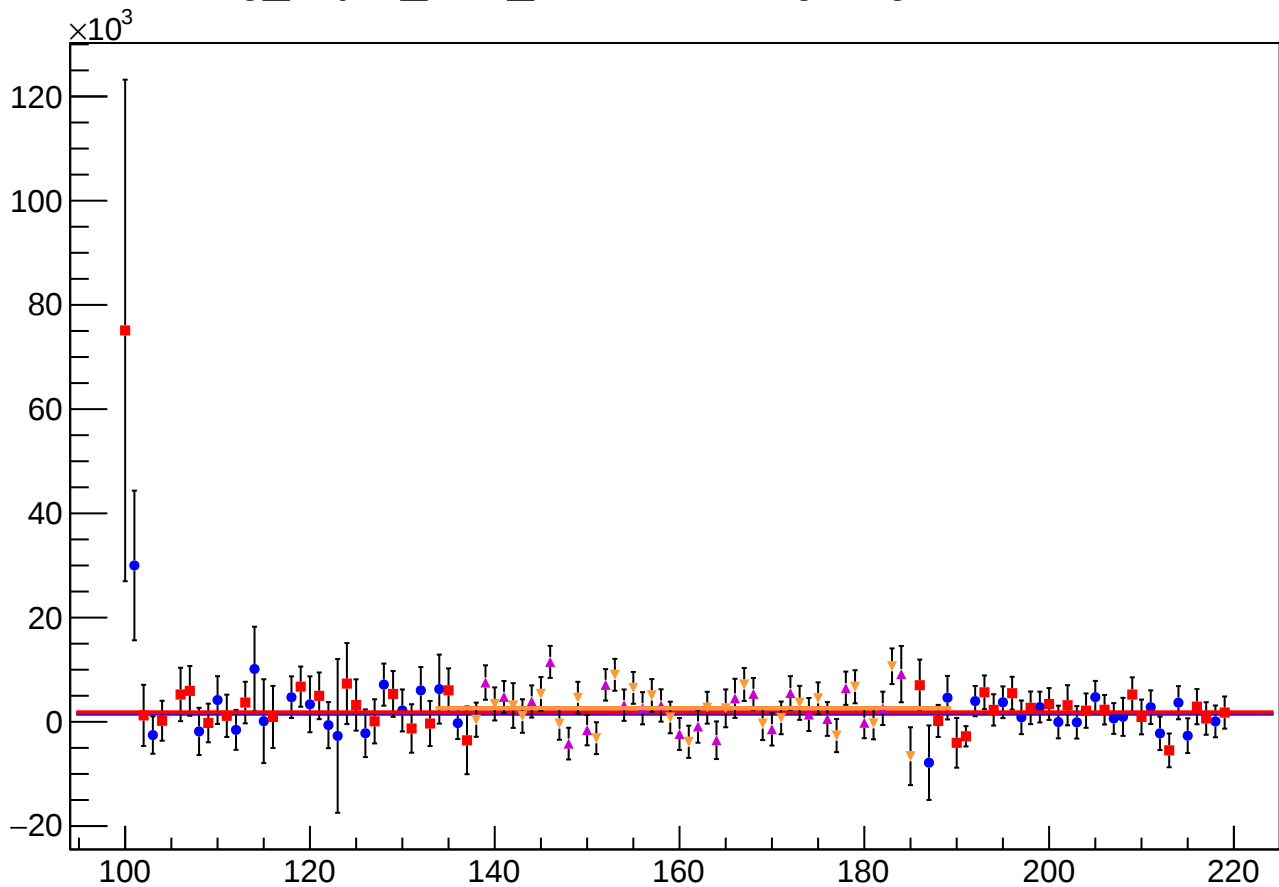
Right: 7733.639+/-0.923 χ^2/NDF : 4448270.9/69

In: 8552.852+/-1.048 χ^2/NDF : 4204793.6/55

Out: 8519.873+/-1.015 χ^2/NDF : 4678599.4/61

All: 8535.841+/-0.729 χ^2/NDF : 8883904.1/111

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1562.808 $\pm$ 661.984 χ^2/NDF : 22.7/32

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

Right Out: 1825.689 $\pm$ 609.457 χ^2/NDF : 28.4/36

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

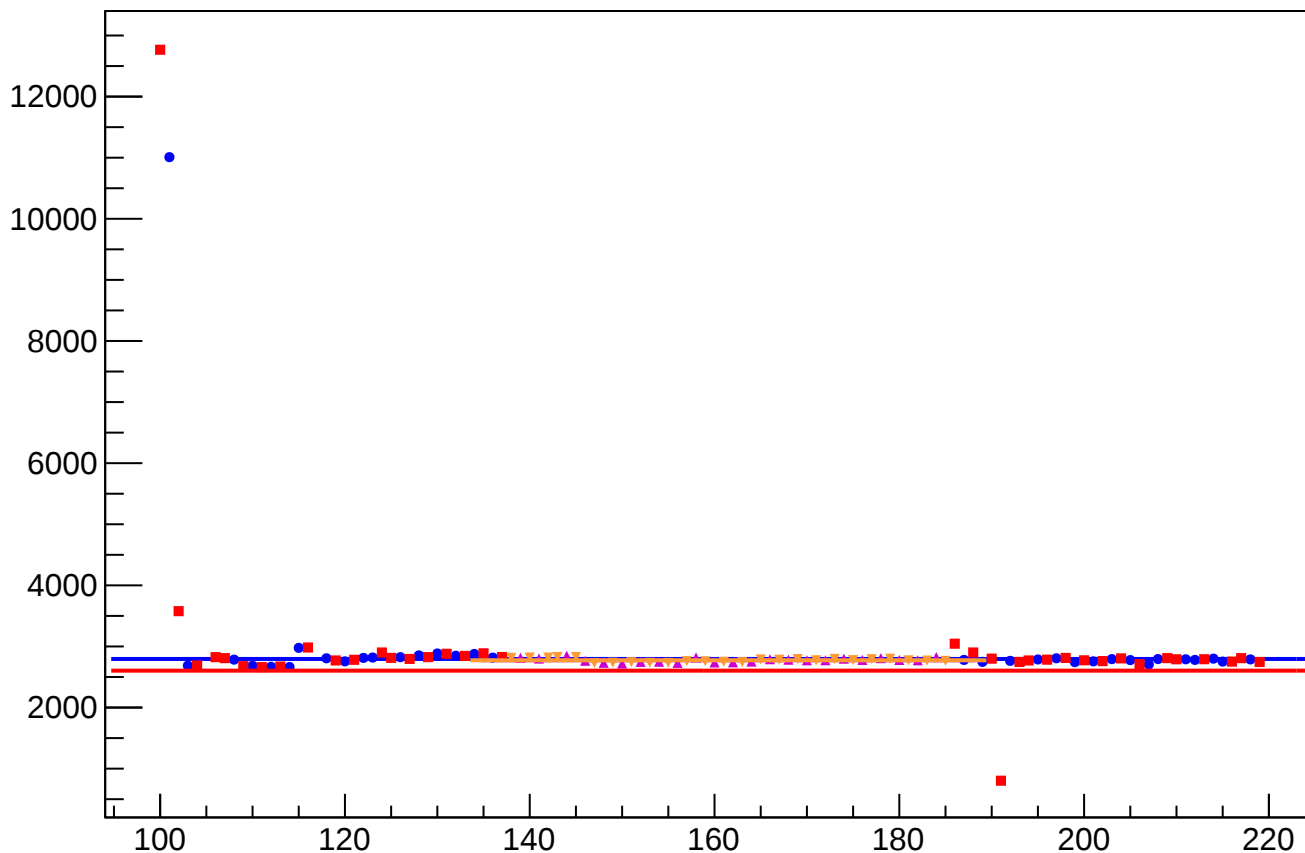
Right: 1705.090 $\pm$ 448.373 χ^2/NDF : 51.2/69

In: 2098.611 $\pm$ 469.005 χ^2/NDF : 59.2/55

Out: 2207.124 $\pm$ 443.346 χ^2/NDF : 64.3/61

All: 2155.917 $\pm$ 322.182 χ^2/NDF : 123.6/117

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2795.373+/-0.468 χ^2/NDF : 667046.5/32

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

Right Out: 2604.072+/-0.431 χ^2/NDF : 2041078.9/36

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

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

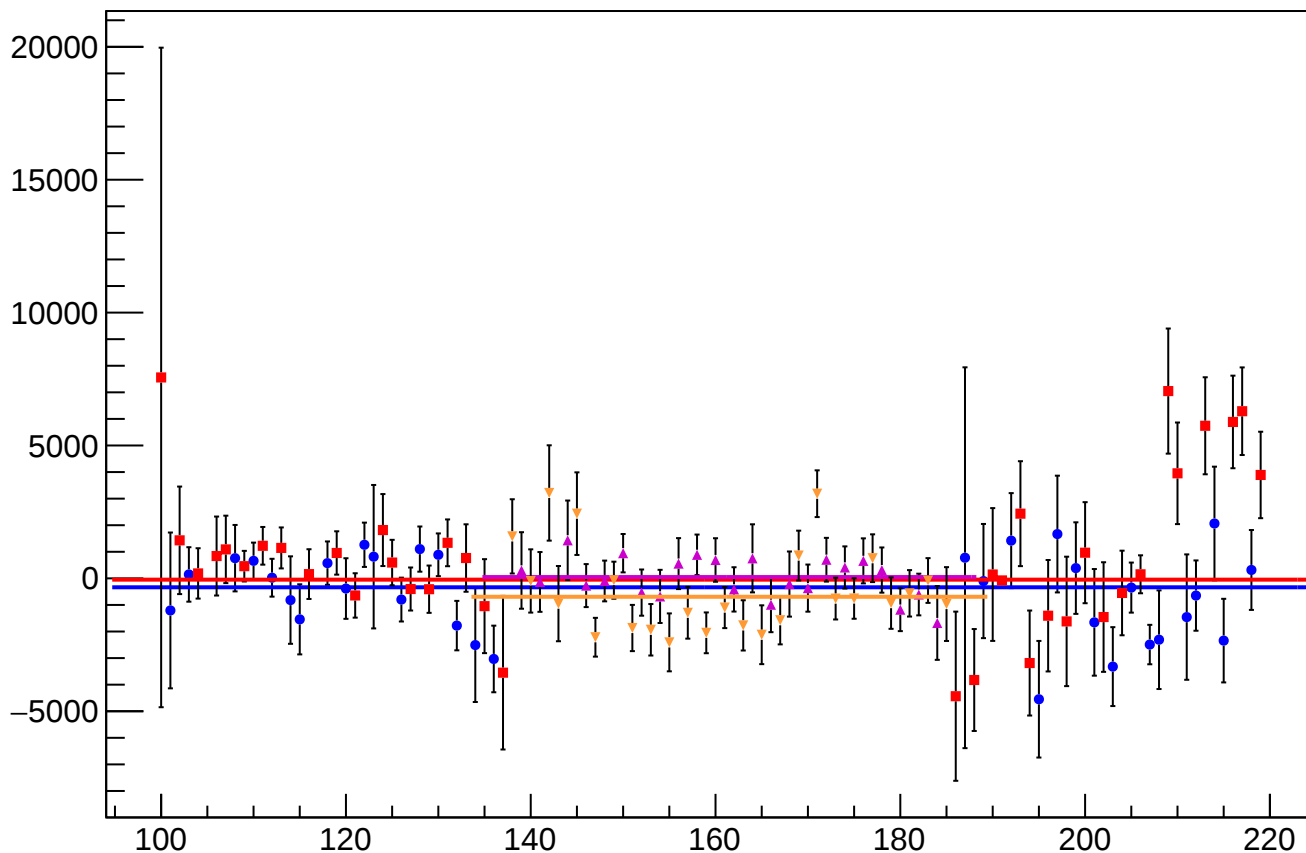
Right: 2691.833+/-0.317 χ^2/NDF : 2798523.4/69

In: 2784.746+/-0.332 χ^2/NDF : 673066.7/55

Out: 2683.944+/-0.313 χ^2/NDF : 2118651.8/61

All: 2731.512+/-0.228 χ^2/NDF : 2840509.0/11

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -335.960 $\pm$ 203.844 χ^2/NDF : 46.1/32

Left Out: -692.808 $\pm$ 187.297 χ^2/NDF : 56.0/24

Right Out: -48.477 $\pm$ 37.773 χ^2/NDF : 86.1/36

Left In: 49.244 $\pm$ 189.190 χ^2/NDF : 13.6/22

Left: -325.512 $\pm$ 133.103 χ^2/NDF : 77.4/47

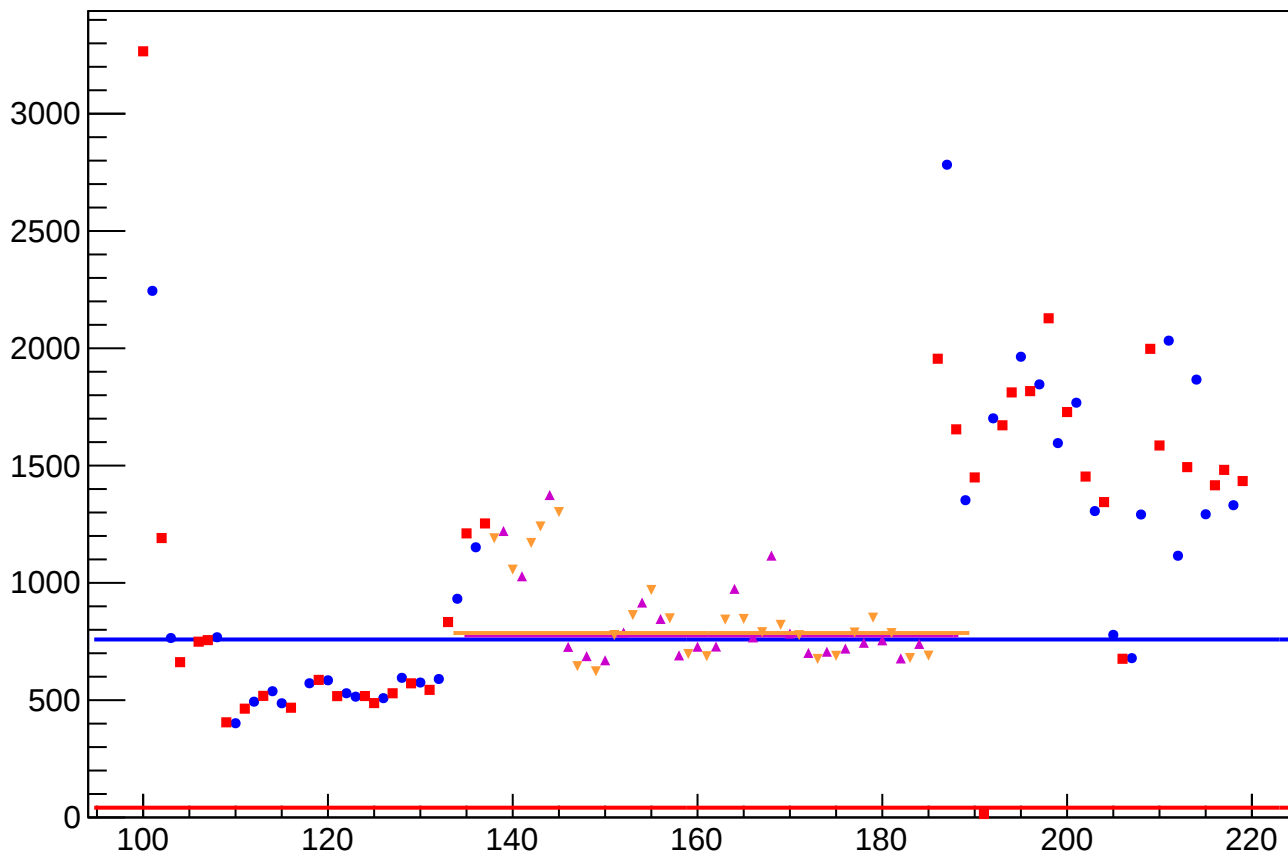
Right: -58.021 $\pm$ 37.141 χ^2/NDF : 134.1/69

In: -129.016 $\pm$ 138.669 χ^2/NDF : 61.7/55

Out: -73.659 $\pm$ 37.028 χ^2/NDF : 153.4/61

All: -77.344 $\pm$ 35.774 χ^2/NDF : 215.2/117

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 758.687+/-0.144

χ^2/NDF : 7598849.3/32

Left Out: 786.173+/-0.132

χ^2/NDF :1249536.1/24

Right Out: 41.626+/-0.027

χ^2/NDF : 35082845.9/36

Left In: 775.930+/-0.134

χ^2/NDF :1056766.5/22

Left: 781.103+/-0.094

χ^2/NDF : 2309263.4/47

Right: 65.431+/-0.026

χ^2/NDF : 66608449.8/69

In: 767.950+/-0.098

χ^2/NDF :8663304.6/55

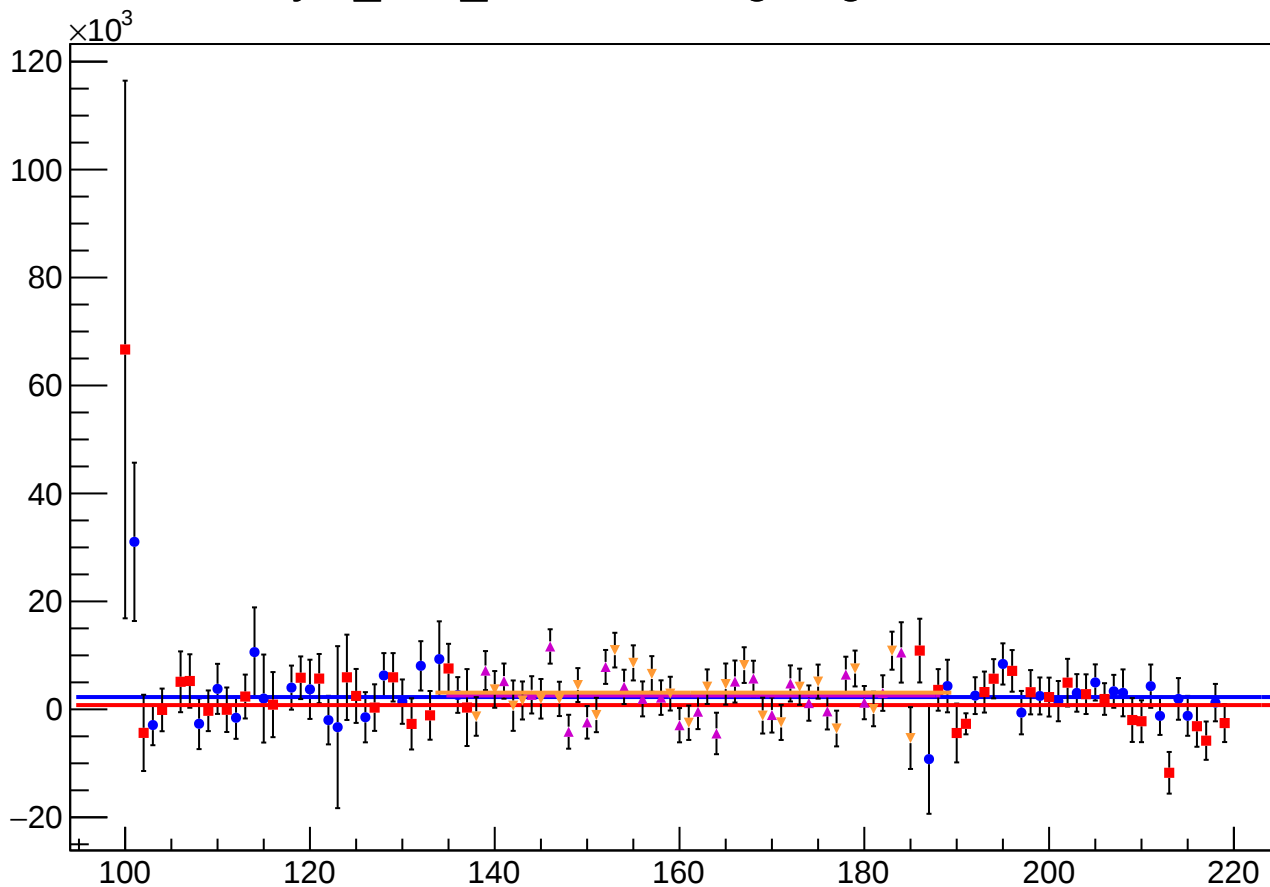
Out: 70.726+/-0.026

χ^2/NDF :66701807.1/61

All: 117.130+/-0.025

χ^2/NDF : 122561177.9/1

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2277.660+/-733.592 χ^2/NDF : 22.2/32

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

Right Out: 789.447+/-672.062 χ^2/NDF : 42.9/36

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

Left: 2840.565+/-485.775 χ^2/NDF : 74.6/47

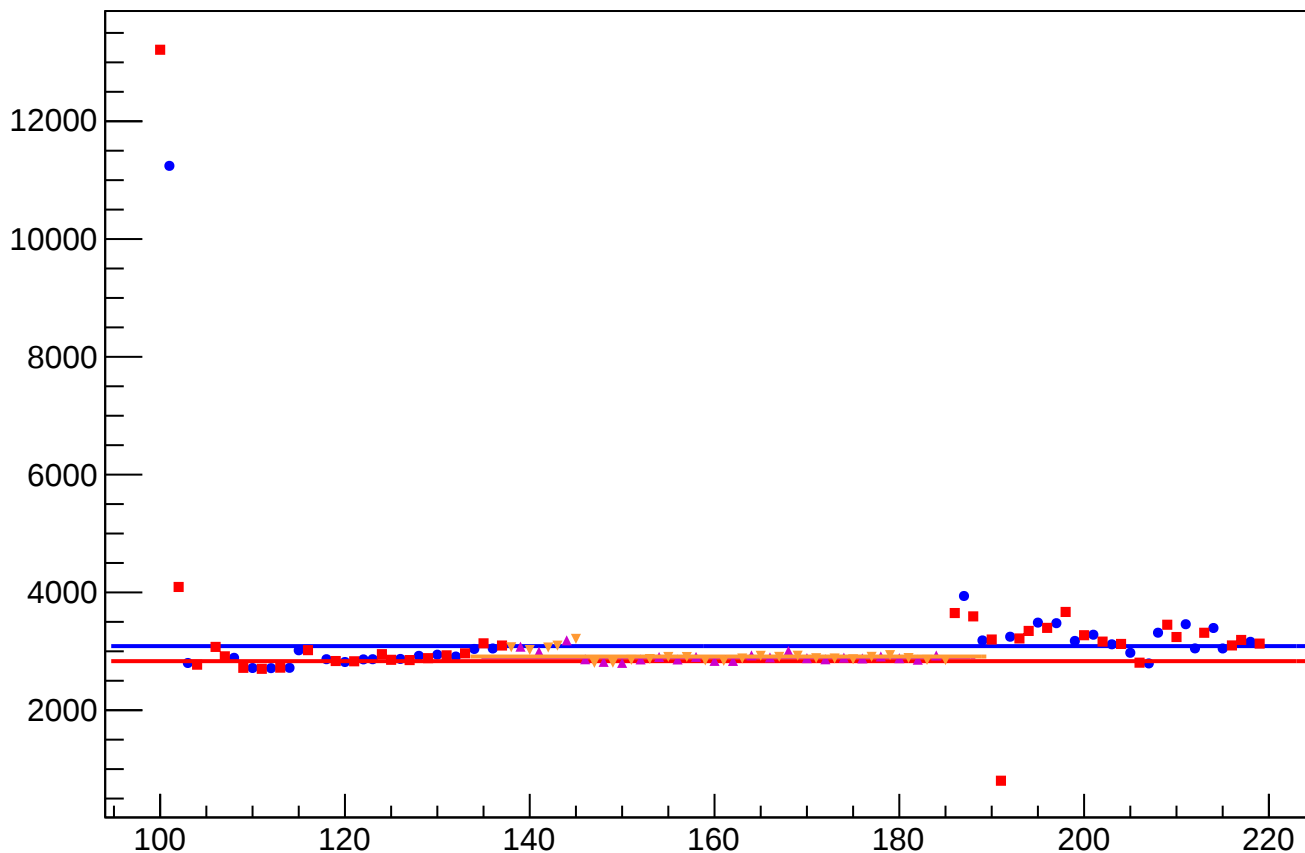
Right: 1468.534+/-495.547 χ^2/NDF : 67.3/69

In: 2433.231+/-504.835 χ^2/NDF : 58.0/55

Out: 1931.130+/-477.483 χ^2/NDF : 87.4/61

All: 2168.211+/-346.898 χ^2/NDF : 145.9/117

asym_atr1_rms vs Slug, Sign Corrected



Right In: 3088.240+/-0.519 χ^2/NDF : 822977.9/32

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

Right Out: 2832.795+/-0.475 χ^2/NDF : 2858273.1/36

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

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

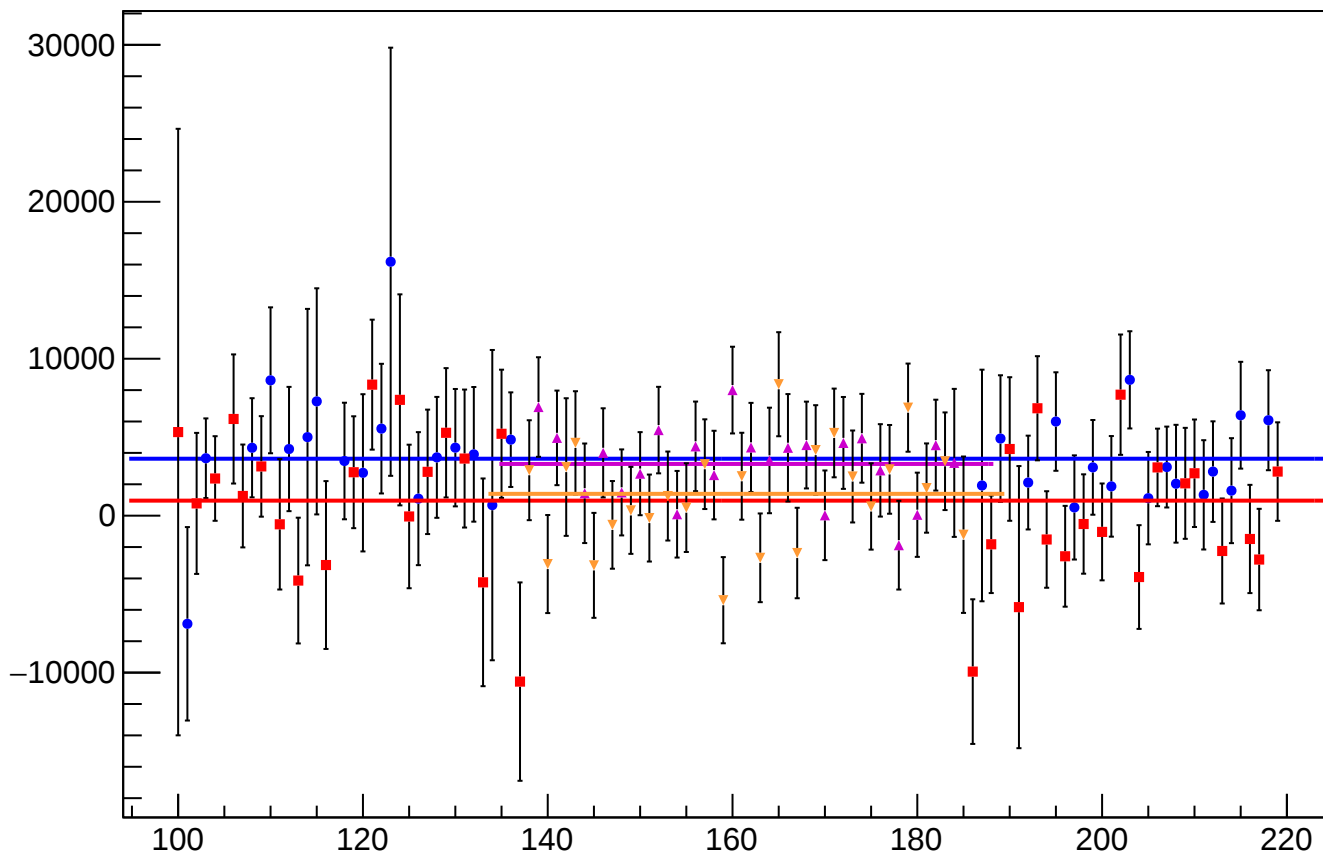
Right: 2949.357+/-0.350 χ^2/NDF : 3813096.2/69

In: 2990.941+/-0.357 χ^2/NDF : 918650.4/55

Out: 2871.636+/-0.338 χ^2/NDF : 2908406.5/61

All: 2927.969+/-0.245 χ^2/NDF : 3886014.1/11

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3628.888 $\pm$ 637.782 χ^2 /NDF: 14.1/32

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

Right Out: 957.736 $\pm$ 614.042 χ^2 /NDF: 38.5/36

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

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

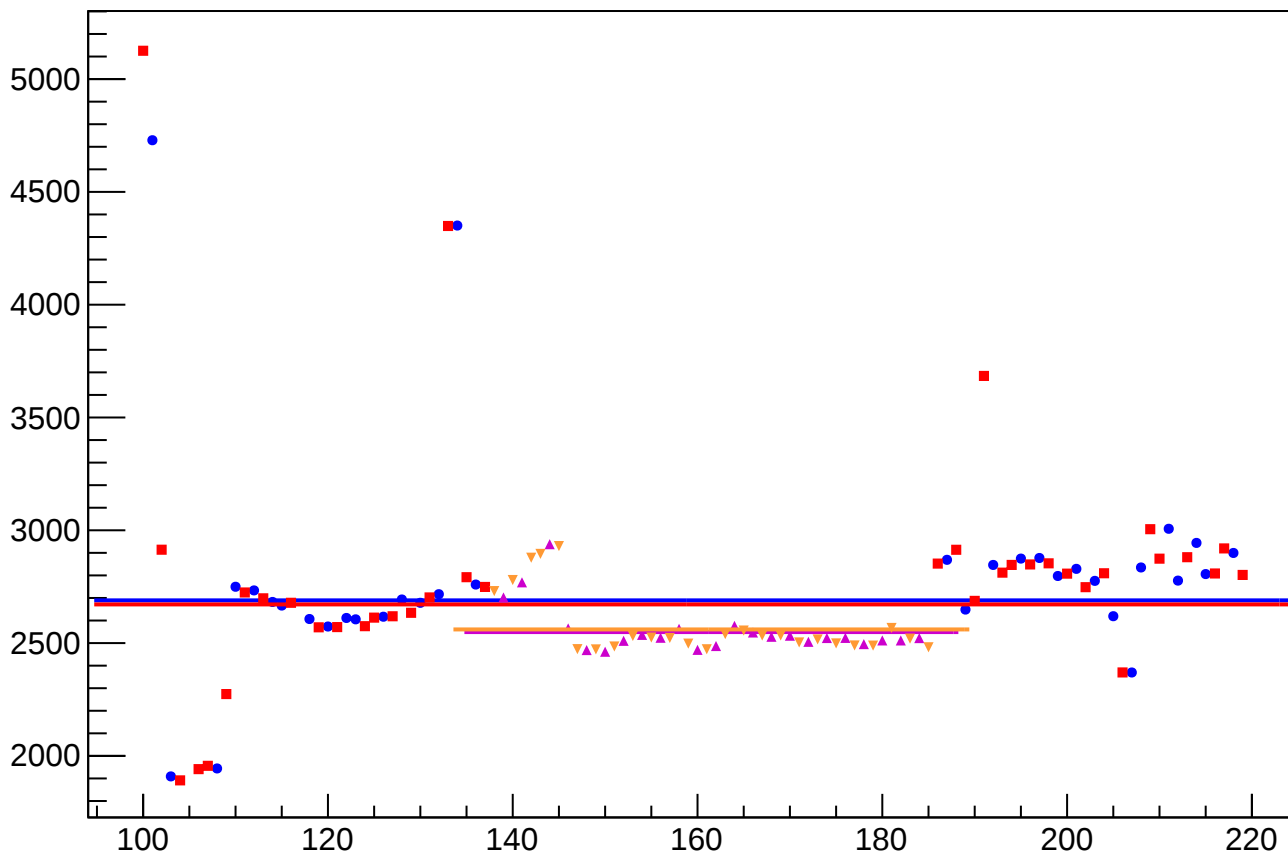
Right: 2242.672 $\pm$ 442.348 χ^2 /NDF: 61.7/69

In: 3454.703 $\pm$ 440.826 χ^2 /NDF:29.1/55

Out: 1180.266 $\pm$ 427.862 χ^2 /NDF:67.9/61

All: 2283.549 $\pm$ 307.025 χ^2 /NDF: 110.7/117

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2689.377 $\pm$ 0.451 χ^2 /NDF: 685022.6/32

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

Right Out: 2671.429 $\pm$ 0.434 χ^2 /NDF: 682258.9/36

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

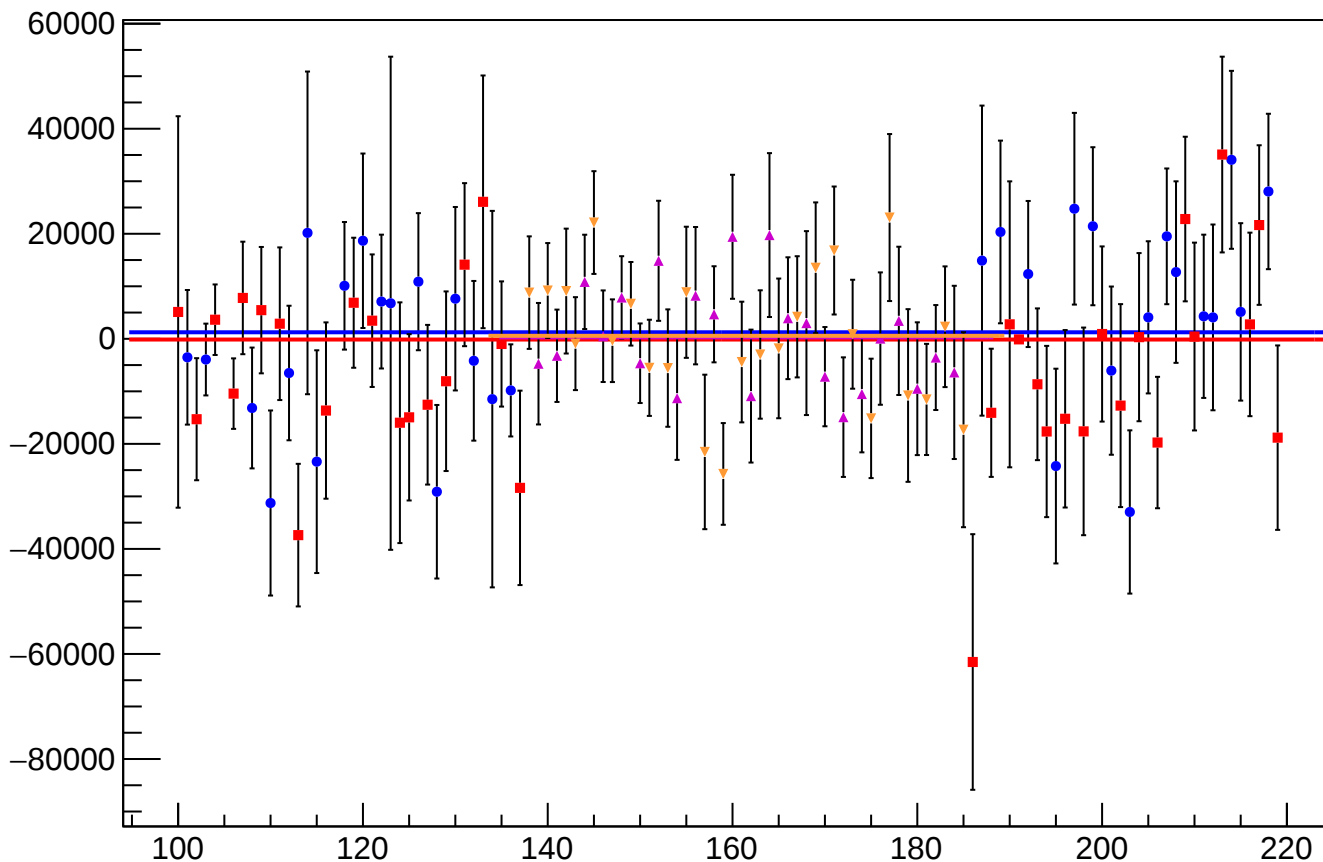
Right: 2680.063 $\pm$ 0.313 χ^2 /NDF: 1368103.5/69

In: 2615.996 $\pm$ 0.312 χ^2 /NDF: 790984.4/55

Out: 2614.375 $\pm$ 0.303 χ^2 /NDF: 802591.8/61

All: 2615.161 $\pm$ 0.217 χ^2 /NDF: 1593590.0/11

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: 1244.942 $\pm$ 2527.008 χ^2 /NDF: 37.6/32

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

Right Out: -136.649 $\pm$ 194.865 χ^2 /NDF: 43.0/36

Left In: 275.116 $\pm$ 2242.836 χ^2 /NDF: 15.7/22

Left: 427.723 $\pm$ 1564.847 χ^2 /NDF: 43.9/47

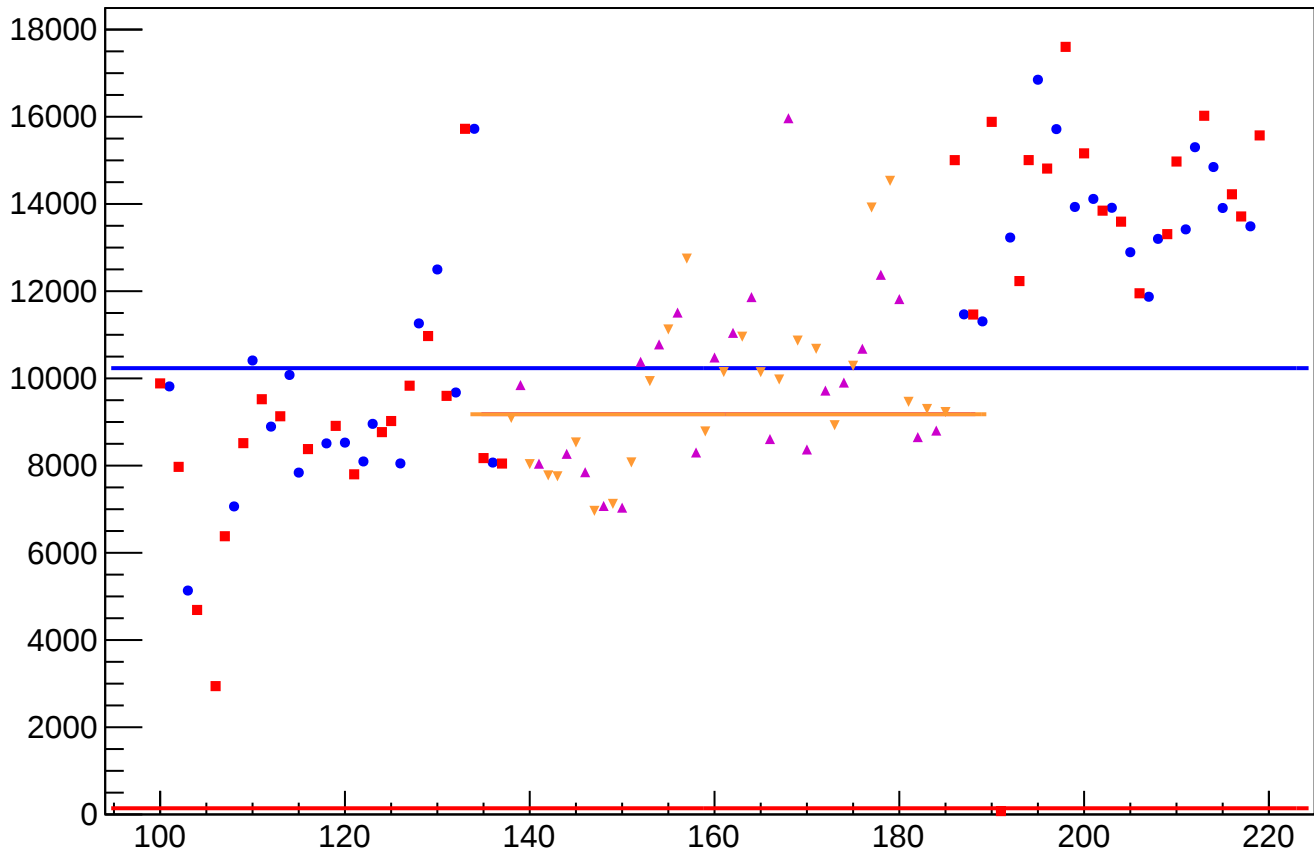
Right: -128.482 $\pm$ 194.288 χ^2 /NDF: 80.9/69

In: 702.454 $\pm$ 1677.435 χ^2 /NDF: 53.4/55

Out: -131.050 $\pm$ 194.094 χ^2 /NDF: 71.3/61

All: -120.038 $\pm$ 192.808 χ^2 /NDF: 125.0/117

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 10235.029+/-1.787

χ^2/NDF : 3339230.3/32

Left: 9179.424+/-1.107

χ^2/NDF : 2412668.1/47

Left Out: 9177.688+/-1.545

χ^2/NDF : 1176195.8/24

Right: 201.587+/-0.137

χ^2/NDF : 72323371.3/69

Right Out: 141.924+/-0.138

χ^2/NDF : 37267179.9/36

In: 9645.583+/-1.186

χ^2/NDF : 4770239.8/55

Out: 213.264+/-0.137

χ^2/NDF : 72395146.5/61

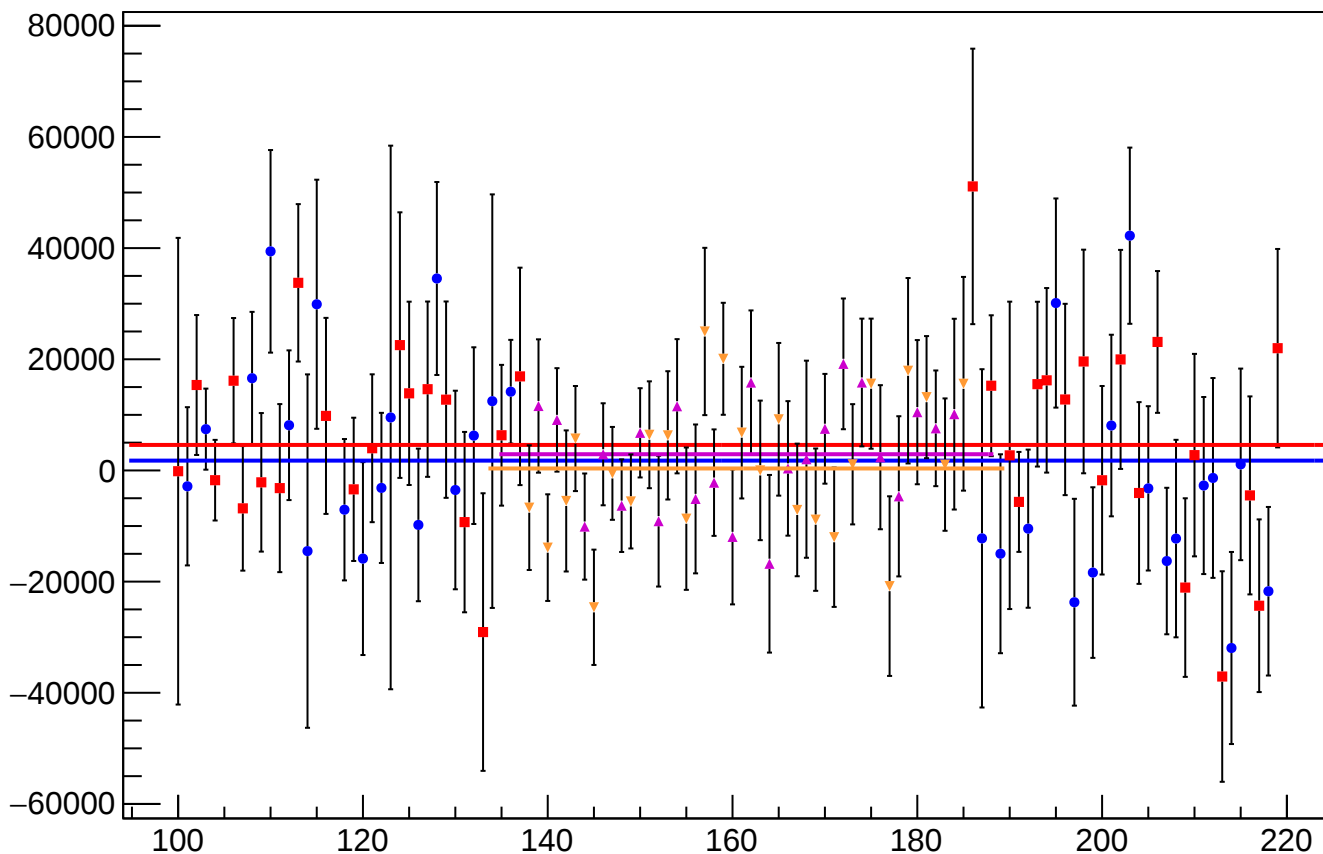
Left In: 9181.254+/-1.586

χ^2/NDF : 1236469.7/22

All: 337.881+/-0.136

χ^2/NDF : 139567566.4/1

asym_atr2_mean vs Slug, Sign Corrected



Right In: 1768.080 $\pm$ 2634.790 χ^2/NDF : 39.8/32

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

Right Out: 4590.621 $\pm$ 2418.841 χ^2/NDF : 35.9/36

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

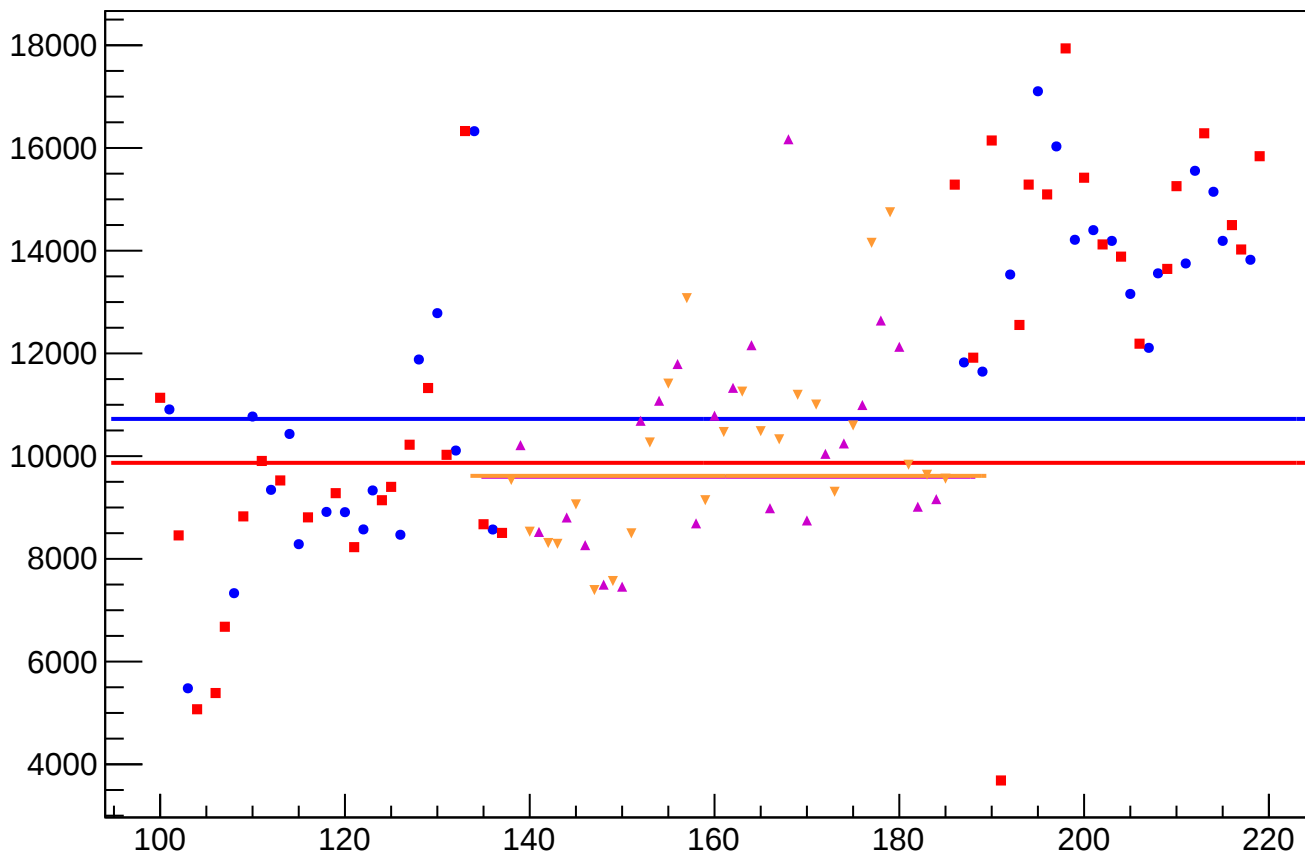
Right: 3299.742 $\pm$ 1781.840 χ^2/NDF : 76.4/69

In: 2411.514 $\pm$ 1748.965 χ^2/NDF : 54.9/55

Out: 2349.702 $\pm$ 1659.765 χ^2/NDF : 63.8/61

All: 2378.991 $\pm$ 1203.931 χ^2/NDF : 118.6/117

asym_atr2_rms vs Slug, Sign Corrected



Right In: 10724.873 $\pm$ 1.863 χ^2/NDF : 3018915.4/32

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

Right Out: 9869.633 $\pm$ 1.710 χ^2/NDF : 5110010.4/36

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

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

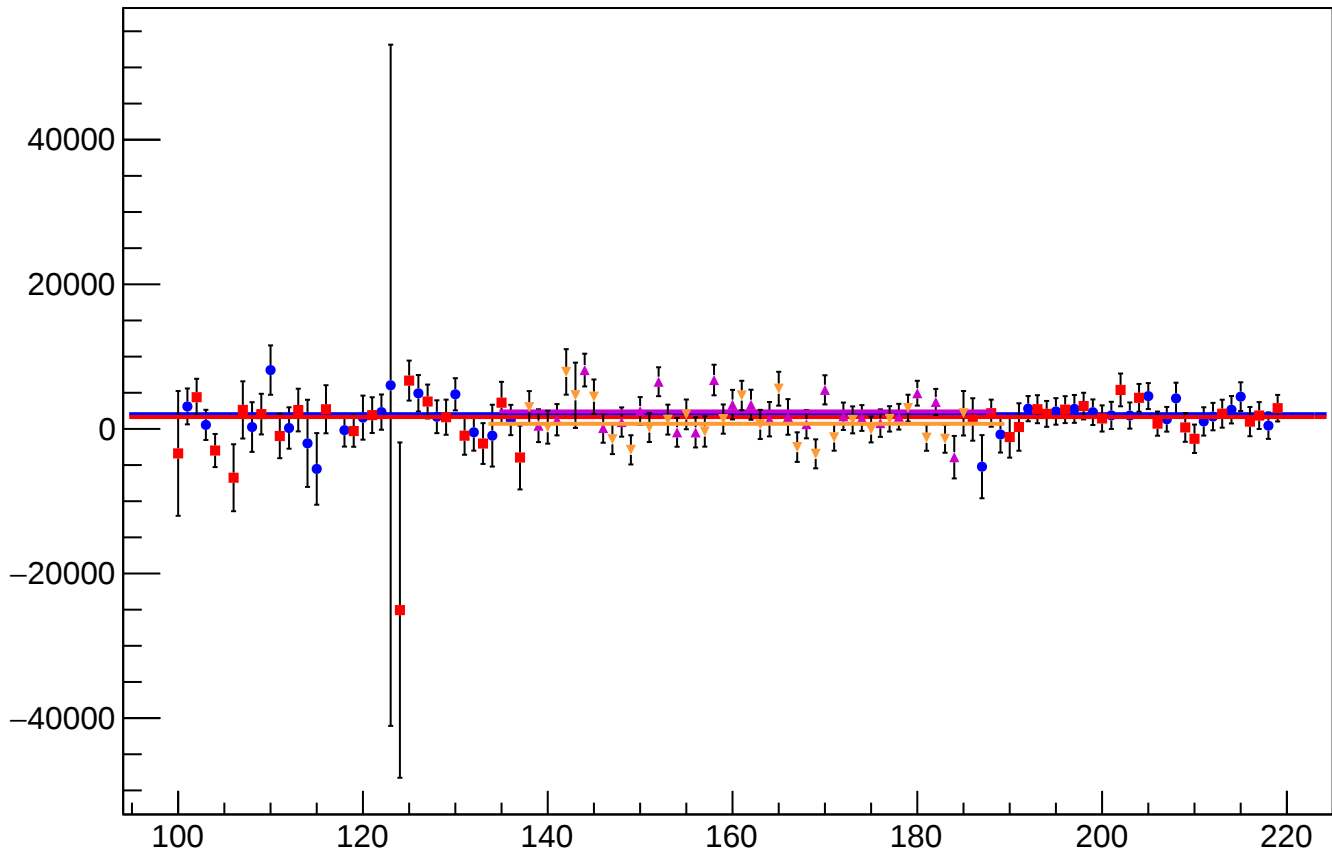
Right: 10260.762 $\pm$ 1.260 χ^2/NDF : 8243278.8/69

In: 10094.827 $\pm$ 1.237 χ^2/NDF : 4305533.9/55

Out: 9735.555 $\pm$ 1.174 χ^2/NDF : 6133290.0/61

All: 9905.794 $\pm$ 0.851 χ^2/NDF : 10483228.6/1

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 2037.255+/-393.379 χ^2/NDF : 23.0/32

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

Right Out: 1642.696+/-385.662 χ^2/NDF : 31.9/36

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

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

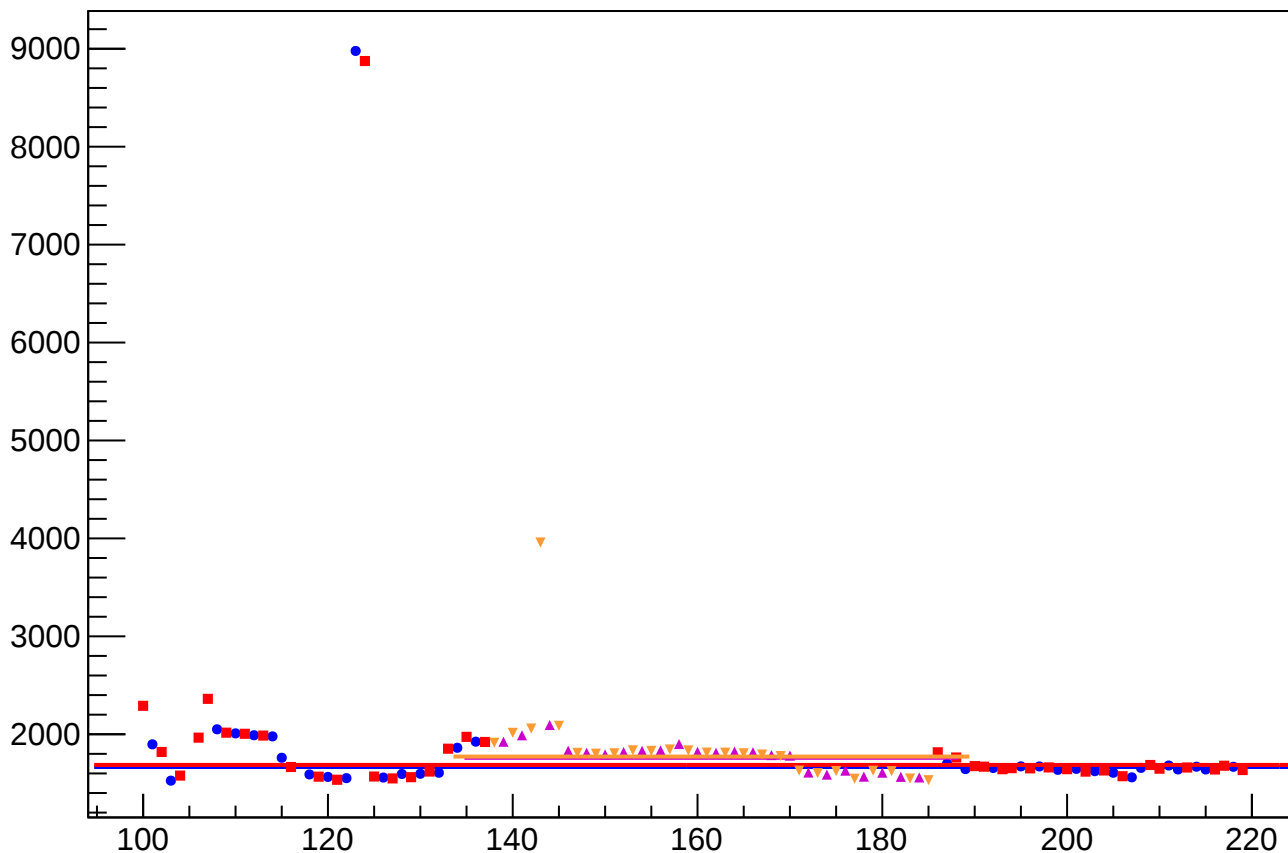
Right: 1836.067+/-275.392 χ^2/NDF : 55.5/69

In: 2212.114+/-288.213 χ^2/NDF :57.5/55

Out: 1212.999+/-283.254 χ^2/NDF :69.5/61

All: 1703.887+/-202.021 χ^2/NDF : 133.0/117

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1665.823+/-0.278 χ^2/NDF : 216558.3/32

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

Right Out: 1686.919+/-0.272 χ^2/NDF : 441171.3/36

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

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

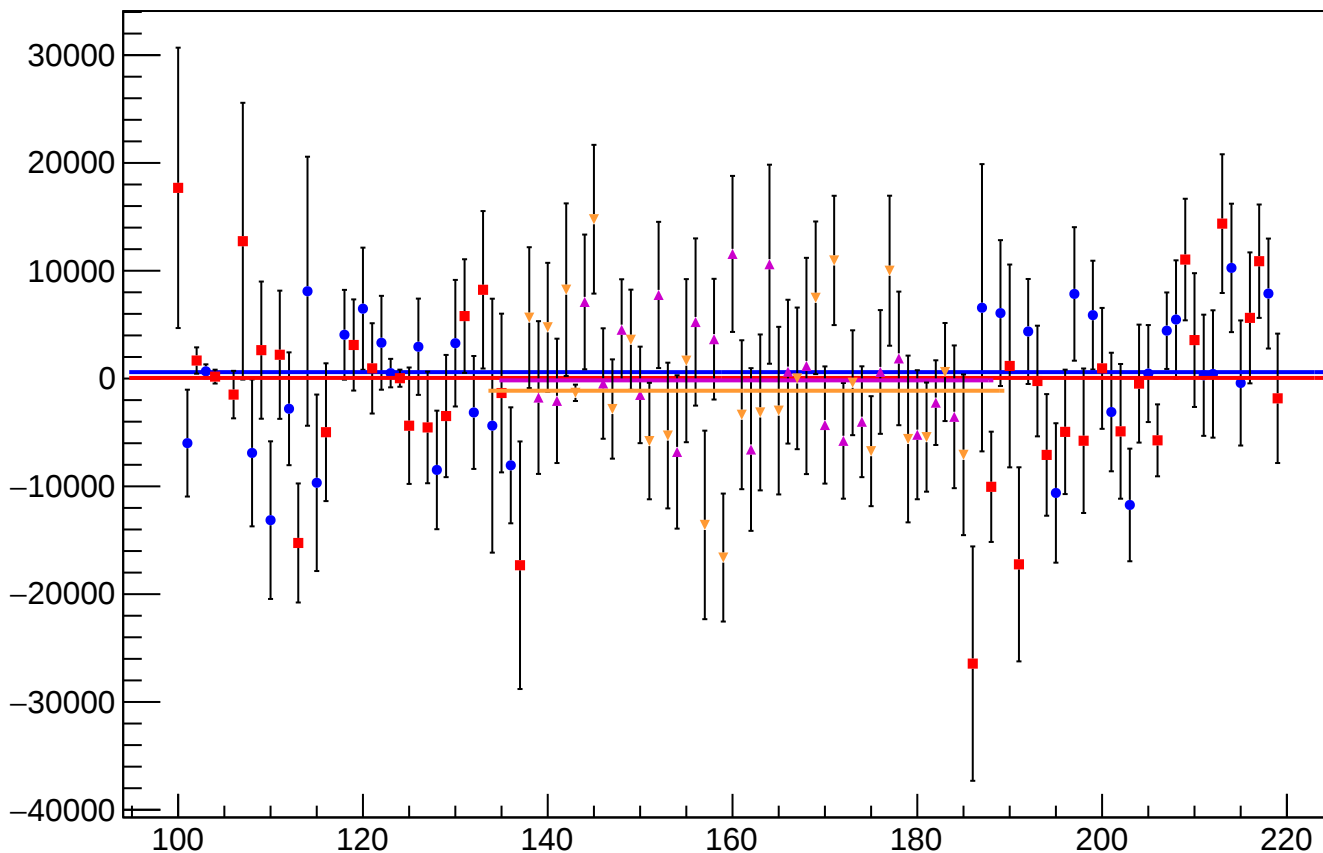
Right: 1676.596+/-0.195 χ^2/NDF : 660666.8/69

In: 1709.261+/-0.204 χ^2/NDF : 484096.8/55

Out: 1726.063+/-0.200 χ^2/NDF : 1188583.7/61

All: 1717.815+/-0.143 χ^2/NDF : 1676140.6/11

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 595.145 $\pm$ 501.998 χ^2 /NDF: 37.1/32

Left Out: -1129.807 $\pm$ 647.600 χ^2 /NDF:31.5/24

Right Out: 58.318 $\pm$ 413.013 χ^2 /NDF: 55.5/36

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

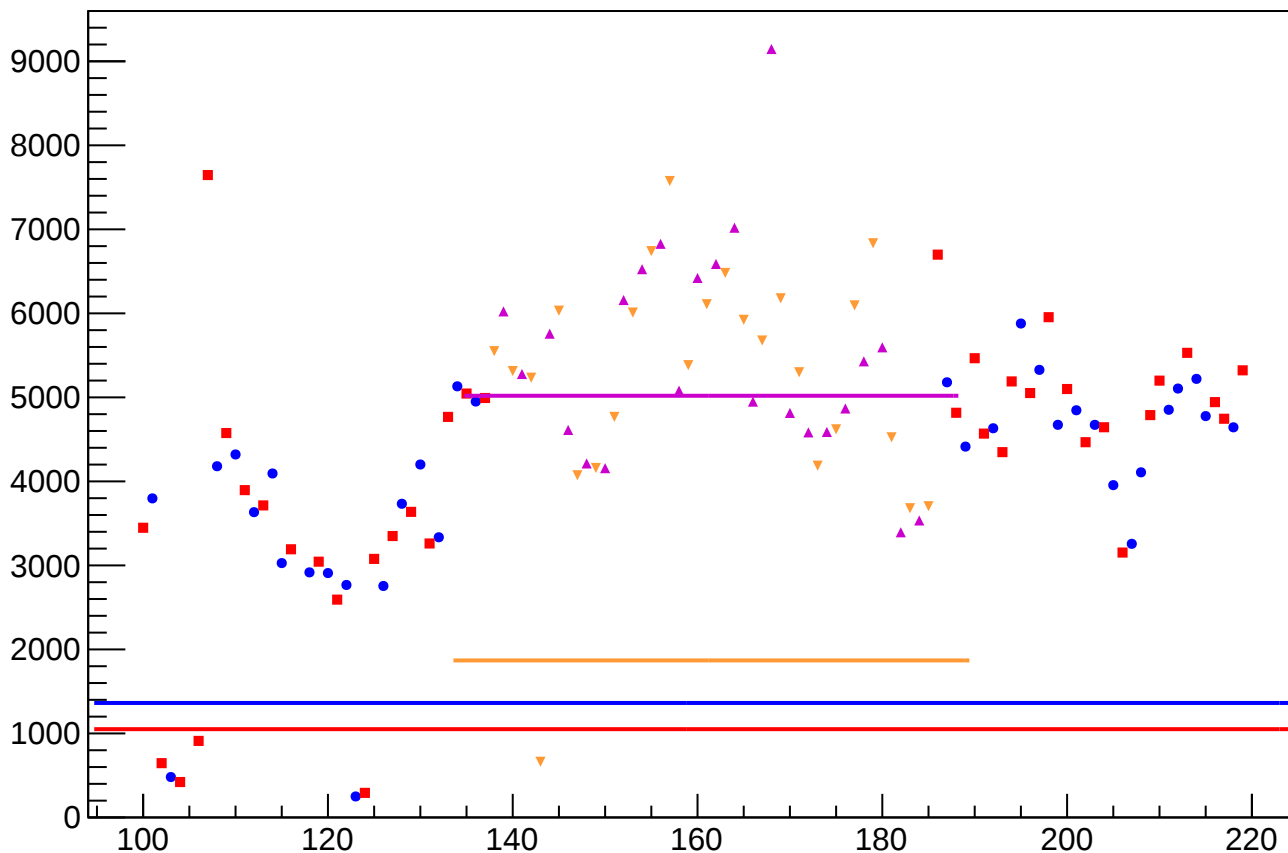
Right: 275.014 $\pm$ 318.941 χ^2 /NDF: 93.3/69

In: 486.519 $\pm$ 464.909 χ^2 /NDF:51.6/55

Out: -285.211 $\pm$ 348.223 χ^2 /NDF:89.3/61

All: -7.857 $\pm$ 278.710 χ^2 /NDF: 142.7/117

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 1362.789+/-0.355

χ^2/NDF : 21272785.1/32

Left: 2550.597+/-0.405

χ^2/NDF : 31661059.7/47

Left Out: 1868.983+/-0.458

χ^2/NDF : 19852416.6/24

Right: 1176.777+/-0.226

χ^2/NDF : 46739199.6/69

Right Out: 1050.865+/-0.292

χ^2/NDF : 25005926.9/36

In: 1883.109+/-0.329

χ^2/NDF : 37940539.9/55

Out: 1287.412+/-0.246

χ^2/NDF : 47127350.4/61

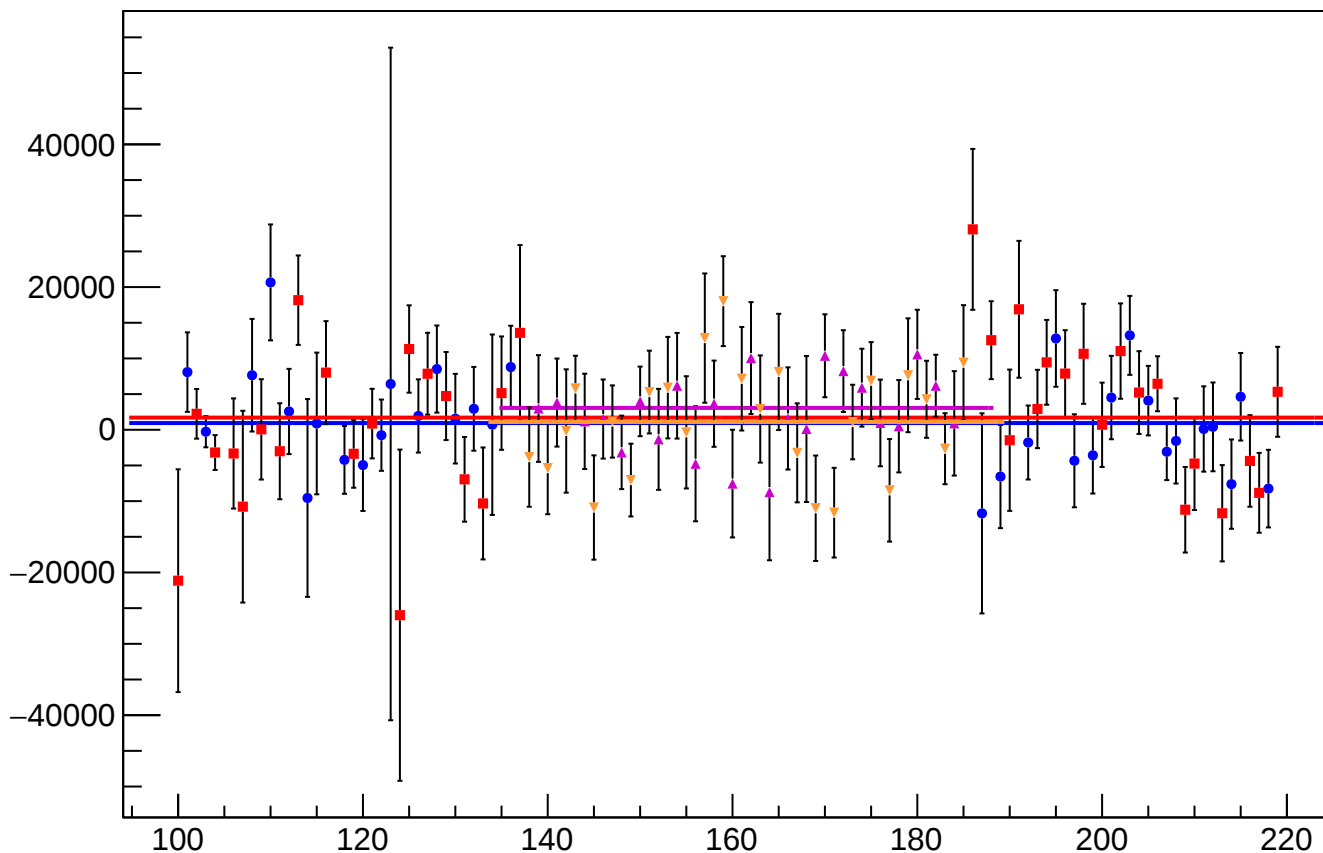
Left In: 5019.114+/-0.871

χ^2/NDF : 1569031.9/22

All: 1501.501+/-0.197

χ^2/NDF : 87171358.2/1

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 940.445 $\pm$ 972.849 χ^2 /NDF: 33.5/32

Left Out: 1094.317 $\pm$ 1273.113 χ^2 /NDF:32.0/24

Right Out: 1704.993 $\pm$ 963.734 χ^2 /NDF: 62.4/36

Left In: 3064.775 $\pm$ 1318.173 χ^2 /NDF:12.6/22

Left: 2045.291 $\pm$ 915.742 χ^2 /NDF: 45.7/47

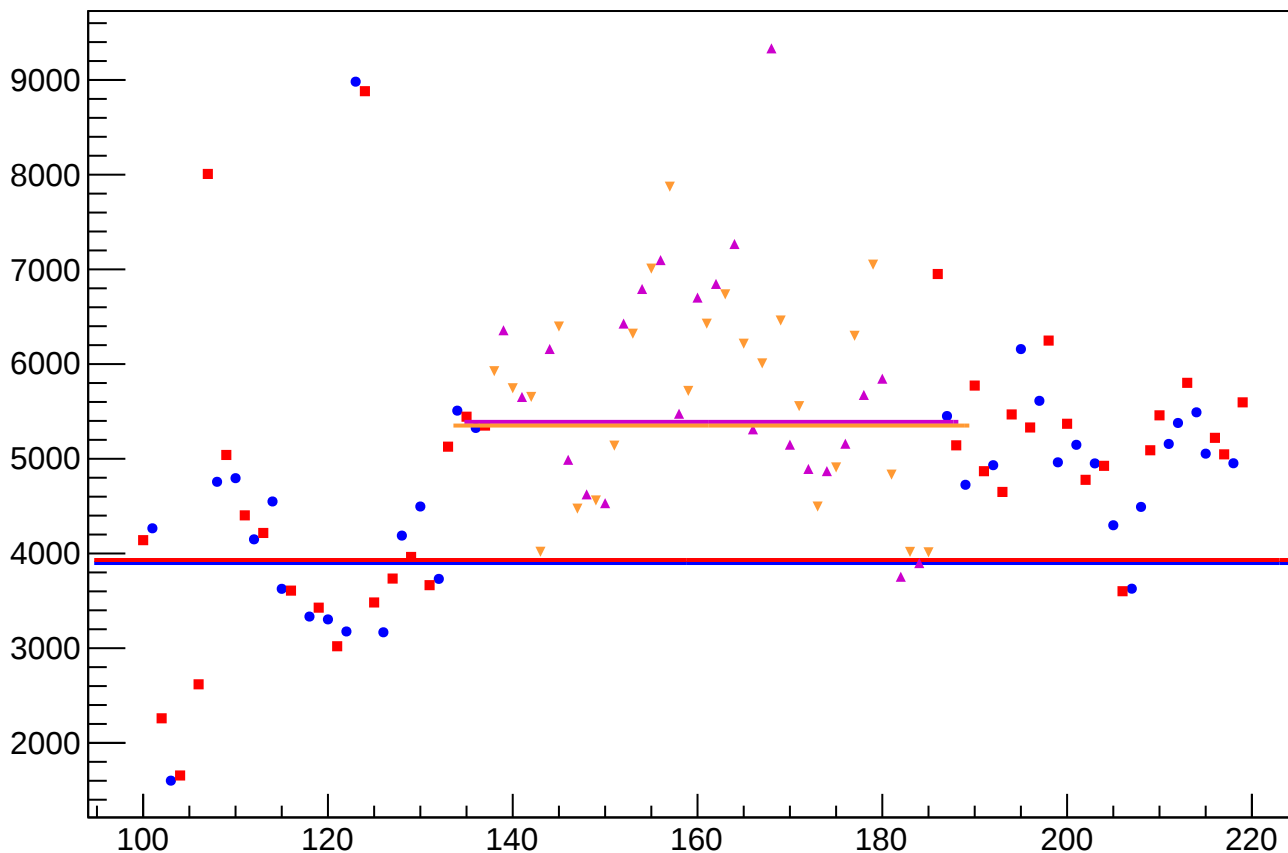
Right: 1326.317 $\pm$ 684.663 χ^2 /NDF: 96.2/69

In: 1689.524 $\pm$ 782.754 χ^2 /NDF:47.8/55

Out: 1482.532 $\pm$ 768.401 χ^2 /NDF:94.5/61

All: 1584.113 $\pm$ 548.346 χ^2 /NDF: 142.3/117

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3899.377 $\pm$ 0.688

χ^2/NDF : 3852496.2/32

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

Right: 3915.538 $\pm$ 0.482 χ^2/NDF : 8456498.6/69

Left Out: 5350.804 $\pm$ 0.900

χ^2/NDF : 1241497.9/24

In: 4424.900 $\pm$ 0.553 χ^2/NDF : 6817444.8/55

Right Out: 3931.138 $\pm$ 0.676

χ^2/NDF : 4602917.7/36

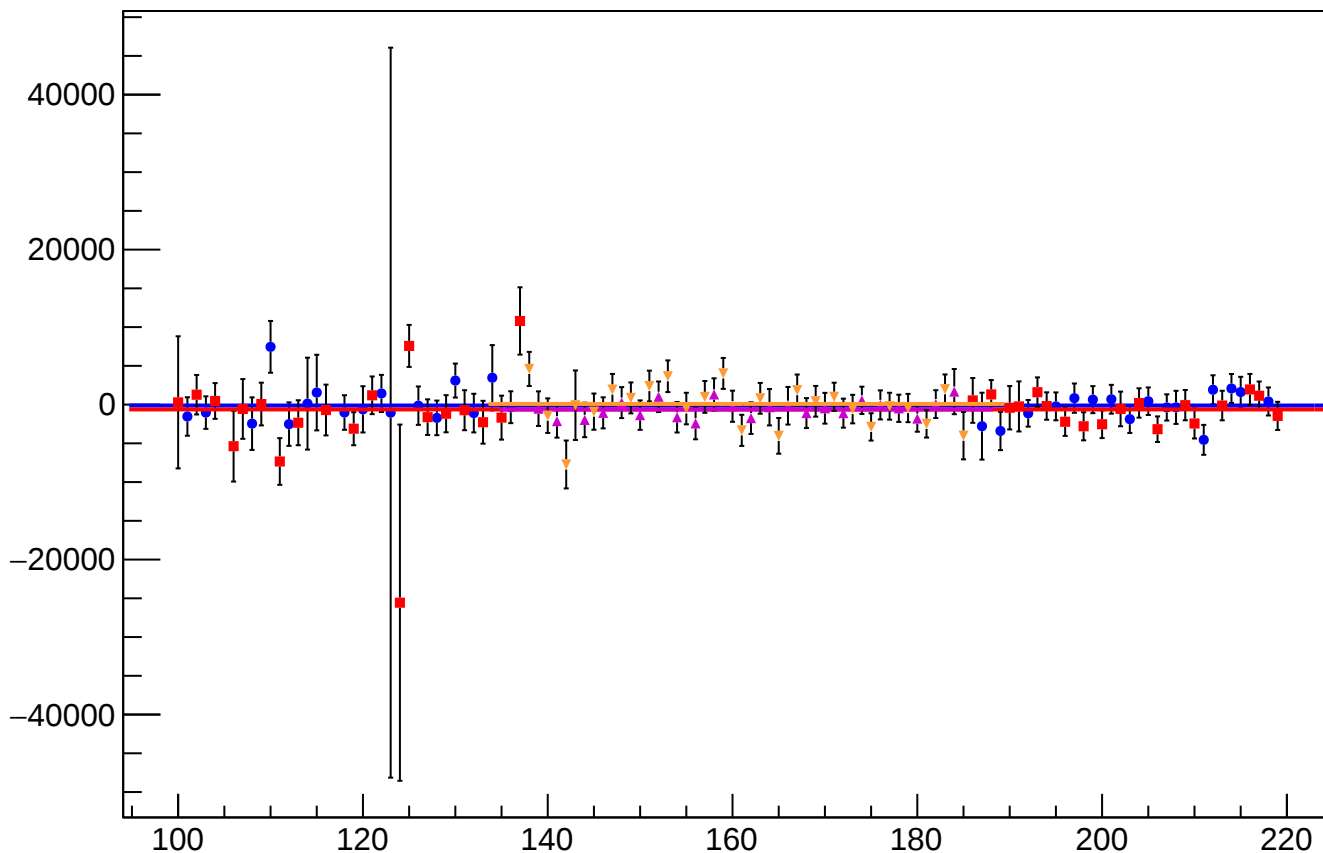
Out: 4442.895 $\pm$ 0.540 χ^2/NDF : 7434882.4/61

Left In: 5389.724 $\pm$ 0.932

χ^2/NDF : 1309863.0/22

All: 4434.111 $\pm$ 0.387 χ^2/NDF : 14252868.3/31

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -118.726 ± 387.964 χ^2/NDF : 24.1/32

Left Out: 86.214 ± 411.530 χ^2/NDF : 36.0/24

Right Out: -622.249 ± 380.201 χ^2/NDF : 39.6/36

Left In: -640.235 ± 417.645 χ^2/NDF : 6.2/22

Left: -271.653 ± 293.134 χ^2/NDF : 43.7/47

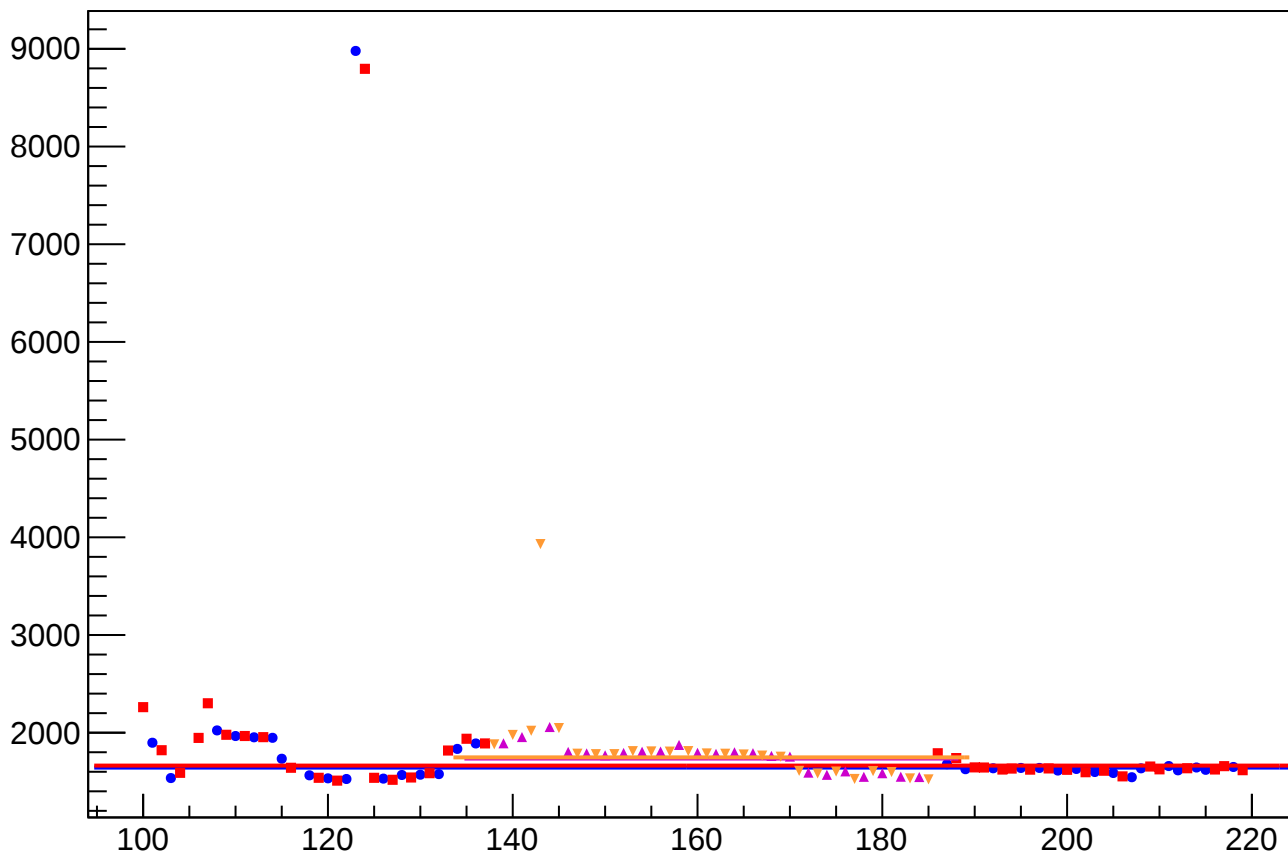
Right: -375.576 ± 271.546 χ^2/NDF : 64.5/69

In: -360.293 ± 284.246 χ^2/NDF : 31.1/55

Out: -296.008 ± 279.262 χ^2/NDF : 77.2/61

All: -327.582 ± 199.207 χ^2/NDF : 108.3/117

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1642.952 $\pm$ 0.274 χ^2 /NDF: 213868.8/32

Left Out: 1747.320 $\pm$ 0.291 χ^2 /NDF: 698192.3/24

Right Out: 1663.252 $\pm$ 0.268 χ^2 /NDF: 436291.1/36

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

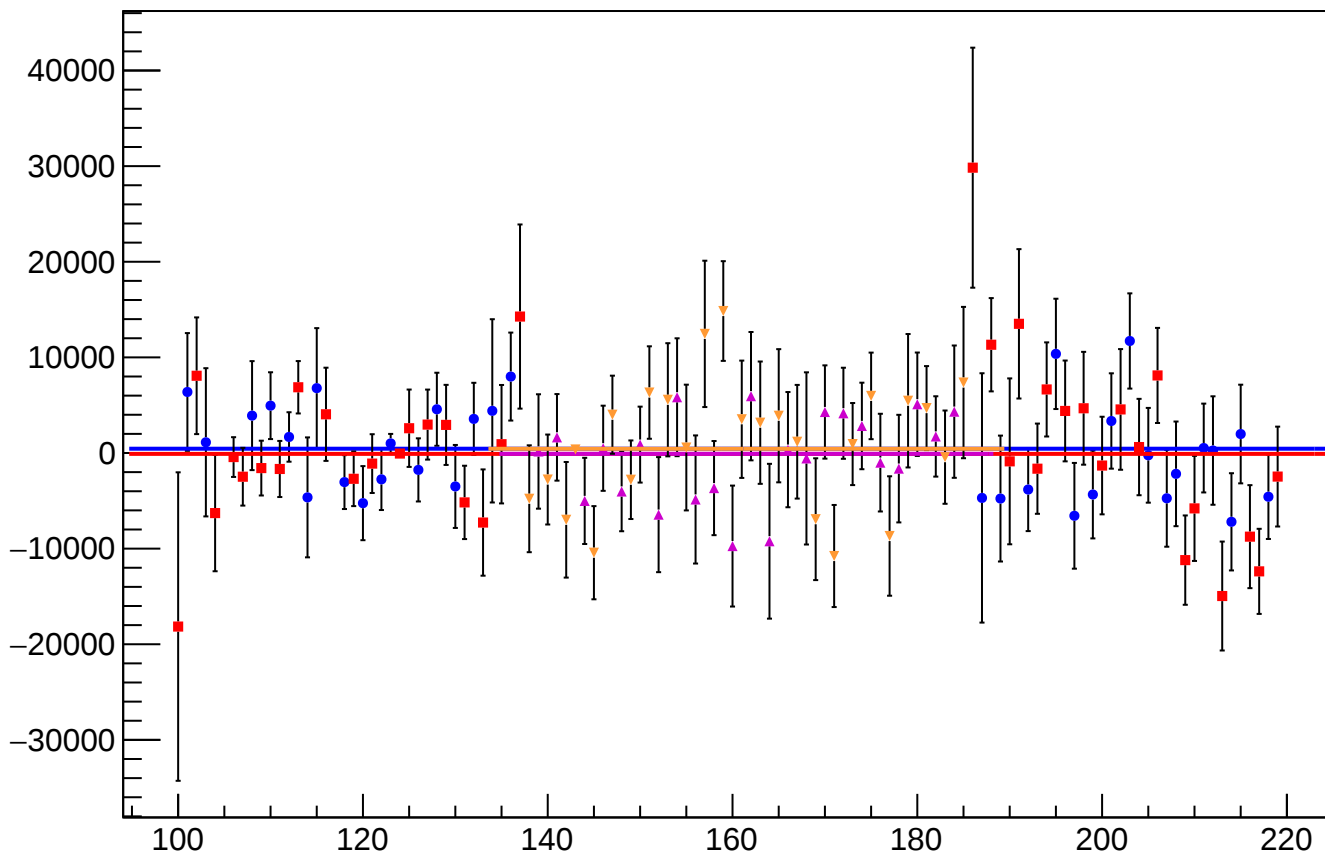
Right: 1653.322 $\pm$ 0.192 χ^2 /NDF: 652957.0/69

In: 1685.840 $\pm$ 0.201 χ^2 /NDF: 473399.2/55

Out: 1701.905 $\pm$ 0.197 χ^2 /NDF: 1179571.5/61

All: 1694.020 $\pm$ 0.141 χ^2 /NDF: 1656224.0/111

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 448.356+/-621.091 χ^2/NDF : 33.7/32

Left Out: 442.187+/-440.335 χ^2/NDF : 33.9/24

Right Out: -91.358+/-344.285 χ^2/NDF : 65.6/36

Left In: -88.508+/-1094.838 χ^2/NDF : 13.4/22

Left: 368.296+/-408.531 χ^2/NDF : 47.5/47

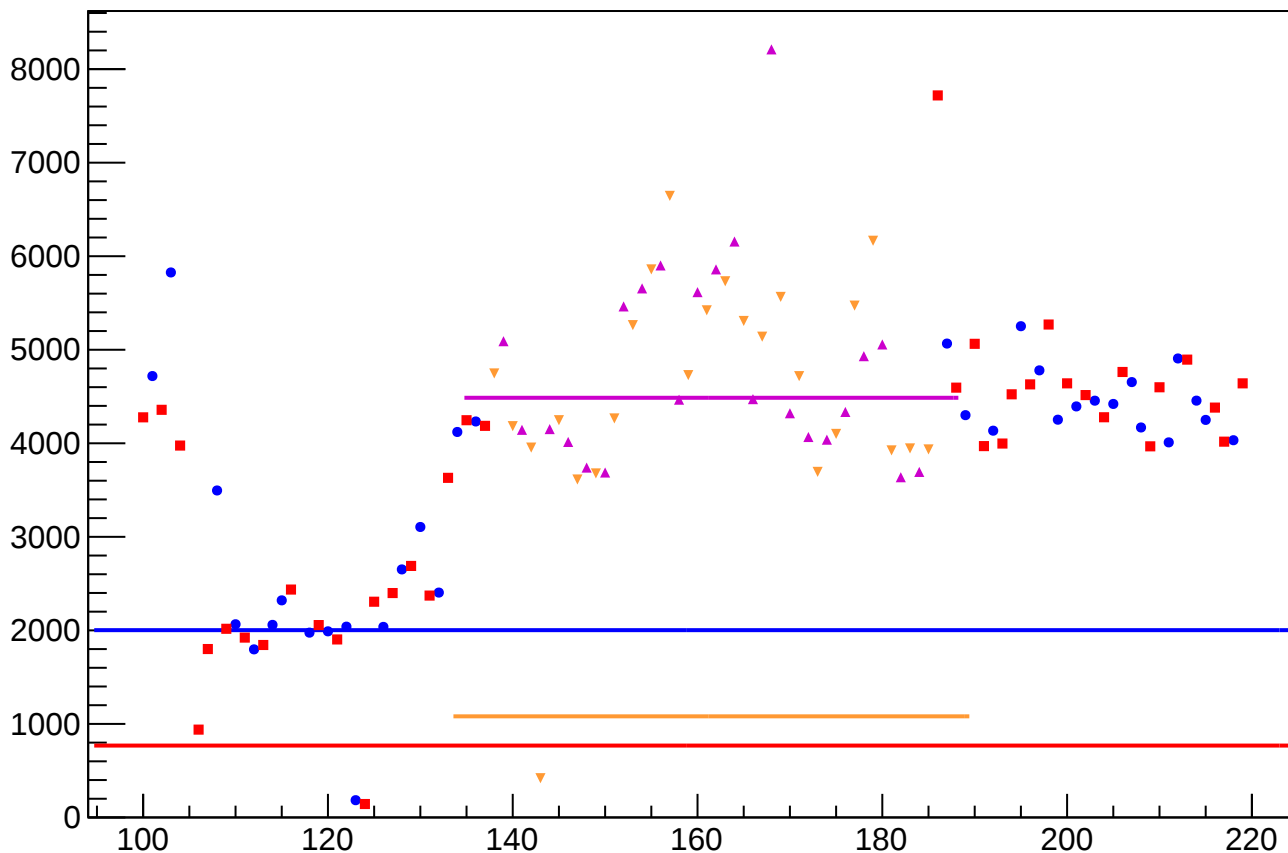
Right: 35.501+/-301.117 χ^2/NDF : 99.9/69

In: 317.648+/-540.218 χ^2/NDF : 47.3/55

Out: 111.065+/-271.223 χ^2/NDF : 100.4/61

All: 152.654+/-242.389 χ^2/NDF : 147.8/117

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 2002.330+/-0.439

χ^2/NDF : 15418724.6/32

Left Out: 1081.004+/-0.311

χ^2/NDF : 24456244.2/24

Right Out: 768.512+/-0.243

χ^2/NDF : 28568412.6/36

Left In: 4486.570+/-0.774

χ^2/NDF : 1181598.1/22

Left: 1555.179+/-0.289 χ^2/NDF : 42294704.7/47

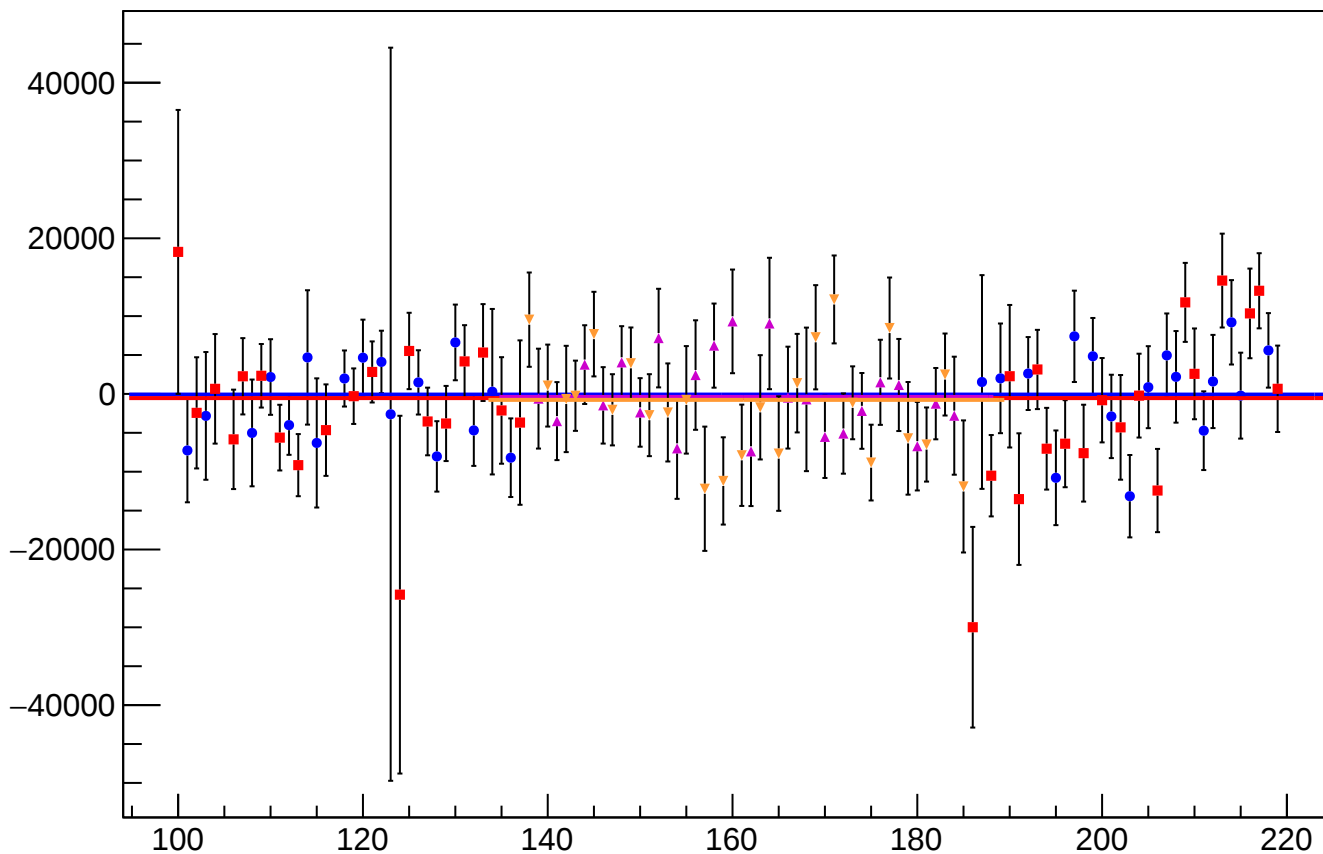
Right: 1058.521+/-0.213 χ^2/NDF : 50024617.5/69

In: 2607.158+/-0.382 χ^2/NDF : 24390469.0/55

Out: 887.069+/-0.192 χ^2/NDF : 53649770.1/61

All: 1233.358+/-0.171 χ^2/NDF : 94234694.9/1

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -83.999 ± 936.660 χ^2/NDF : 33.8/32

Left Out: -766.008 ± 1147.372 χ^2/NDF : 29.9/24

Right Out: -540.007 ± 902.088 χ^2/NDF : 60.9/36

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

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

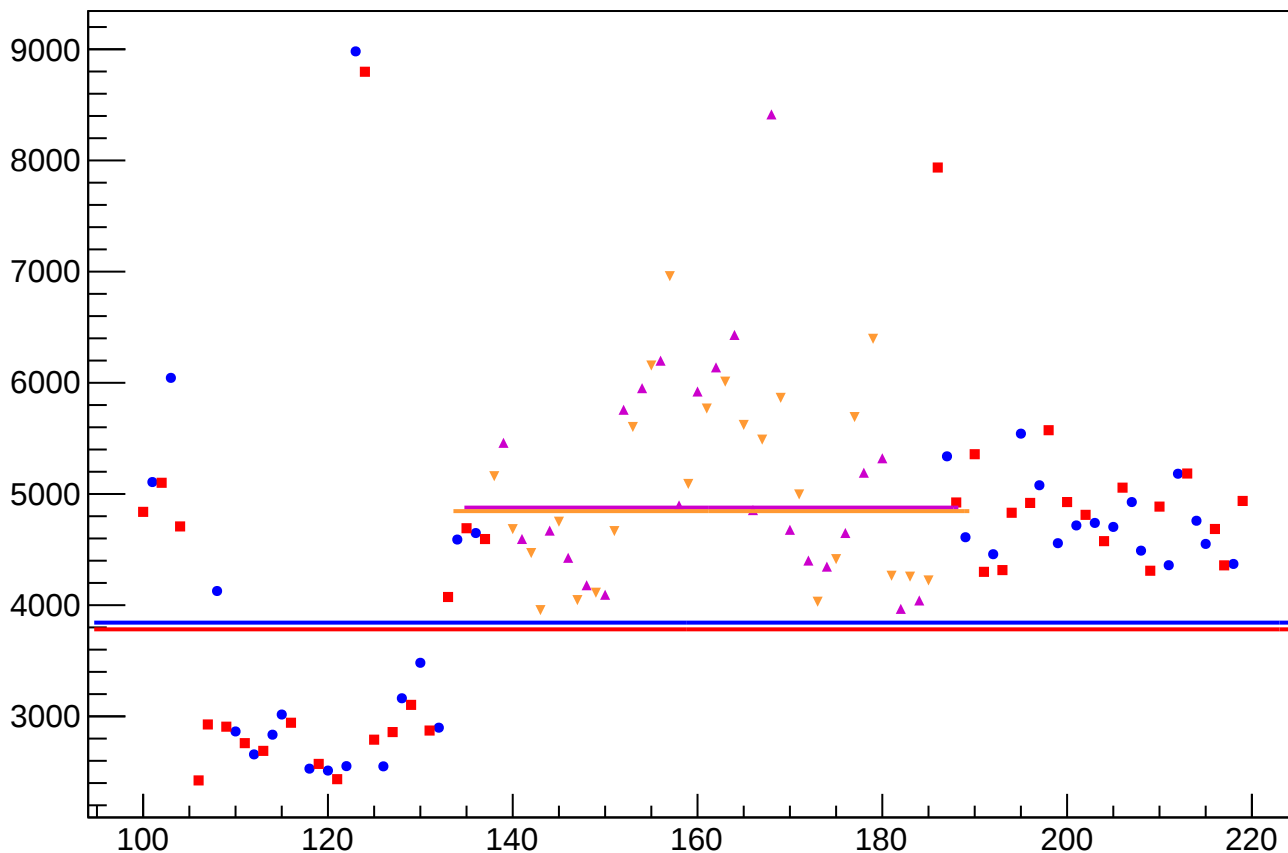
Right: -320.574 ± 649.751 χ^2/NDF : 94.9/69

In: -201.102 ± 735.136 χ^2/NDF : 48.1/55

Out: -626.341 ± 709.153 χ^2/NDF : 90.9/61

All: -421.369 ± 510.386 χ^2/NDF : 139.1/117

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3843.034+/-0.662

χ^2/NDF : 2455821.0/32

Left Out: 4845.779+/-0.811

χ^2/NDF : 909173.9/24

Right Out: 3782.551+/-0.633

χ^2/NDF : 3004227.9/36

Left In: 4877.456+/-0.839

χ^2/NDF : 958623.2/22

Left: 4861.089+/-0.583

χ^2/NDF : 1868533.9/47

Right: 3811.438+/-0.458

χ^2/NDF : 5464405.4/69

In: 4240.265+/-0.520

χ^2/NDF : 4351160.1/55

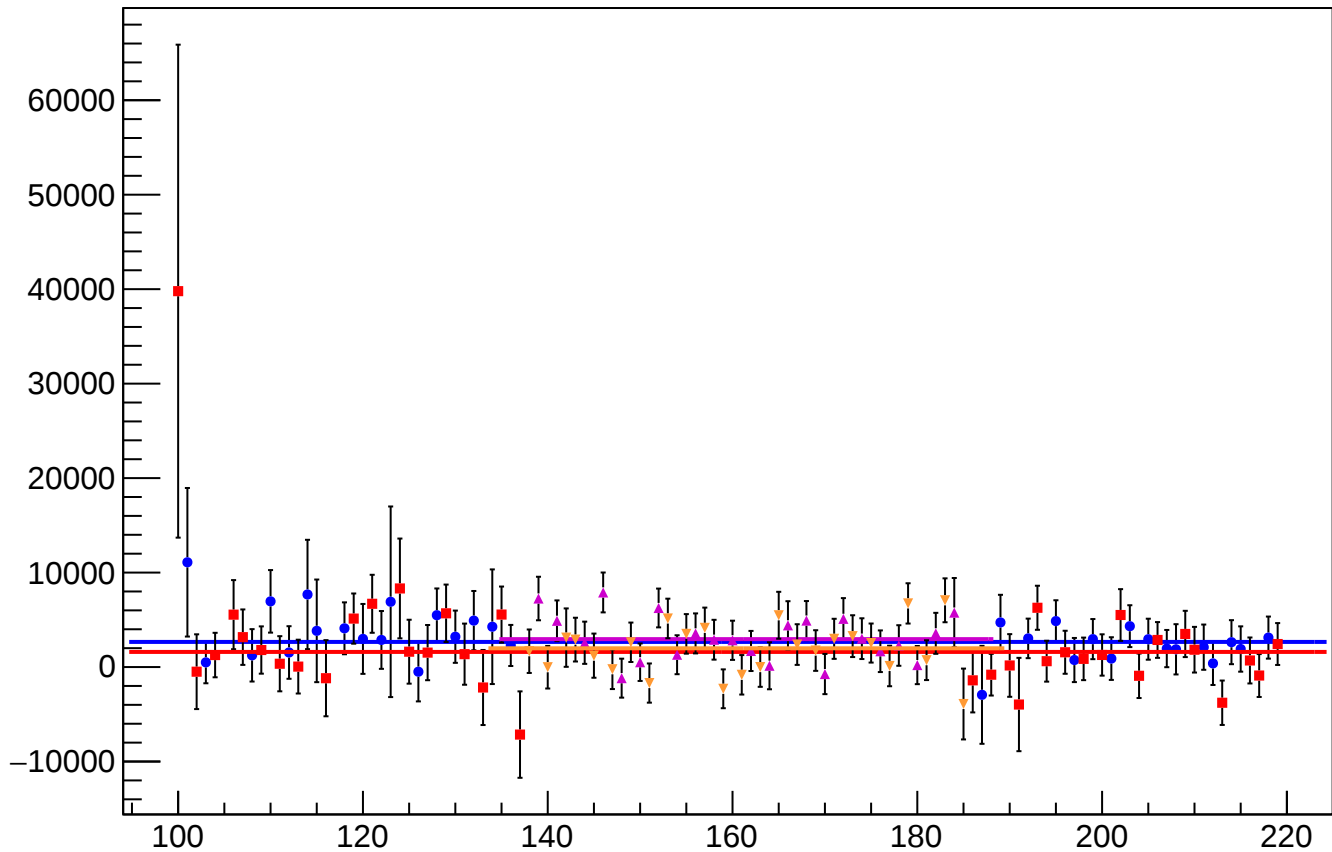
Out: 4185.090+/-0.499

χ^2/NDF : 4980600.1/61

All: 4211.562+/-0.360

χ^2/NDF : 9337621.2/11

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2660.540+/-467.041 χ^2/NDF : 14.1/32

Left Out: 1985.469+/-443.190 χ^2/NDF : 32.4/24

Right Out: 1601.393+/-451.066 χ^2/NDF : 37.9/36

Left In: 2955.900+/-454.551 χ^2/NDF : 28.4/22

Left: 2458.406+/-317.323 χ^2/NDF : 63.2/47

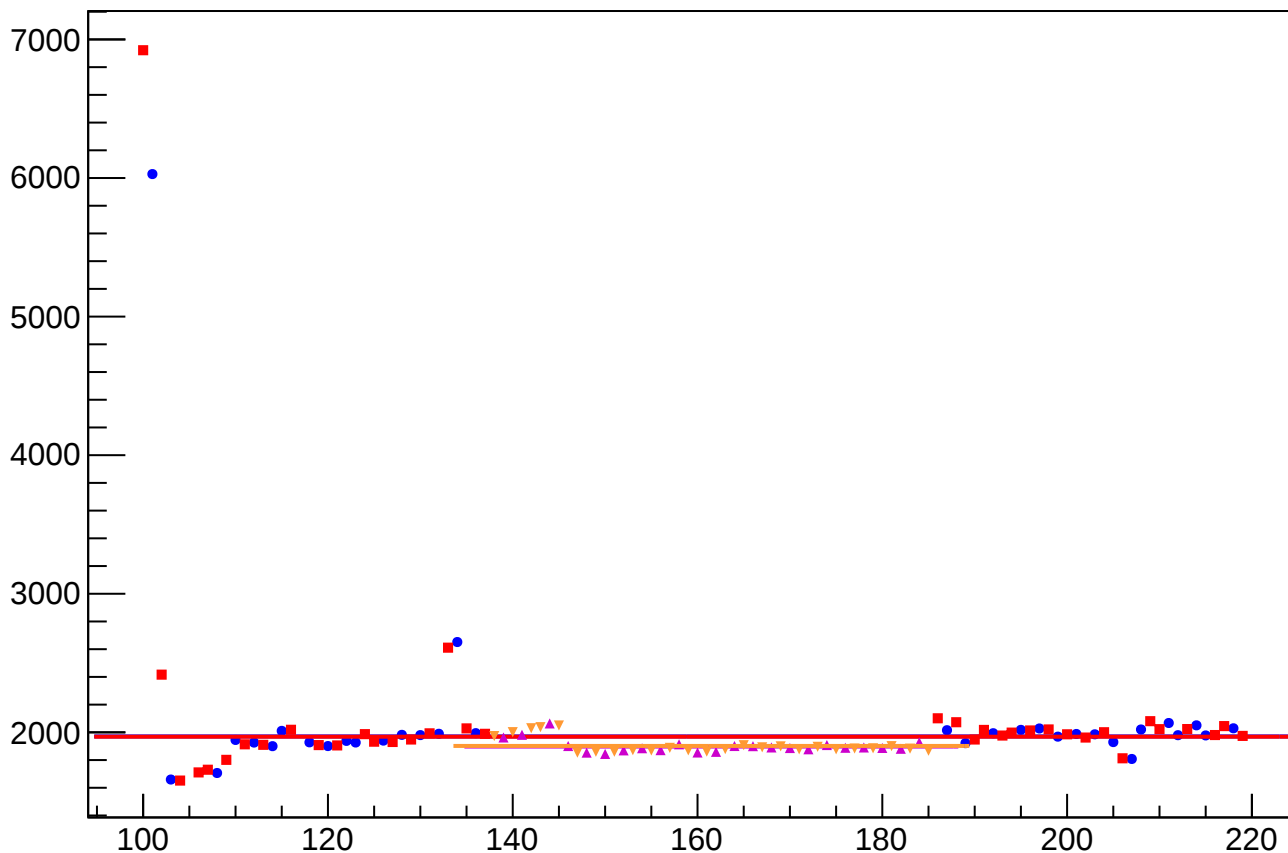
Right: 2112.542+/-324.452 χ^2/NDF : 54.7/69

In: 2812.223+/-325.742 χ^2/NDF : 42.8/55

Out: 1796.813+/-316.130 χ^2/NDF : 70.7/61

All: 2289.316+/-226.860 χ^2/NDF : 118.5/117

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1970.587+/-0.330 χ^2/NDF : 643917.6/32

Left Out: 1901.884+/-0.313 χ^2/NDF : 30446.9/24

Right Out: 1968.536+/-0.319 χ^2/NDF : 257500.3/36

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

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

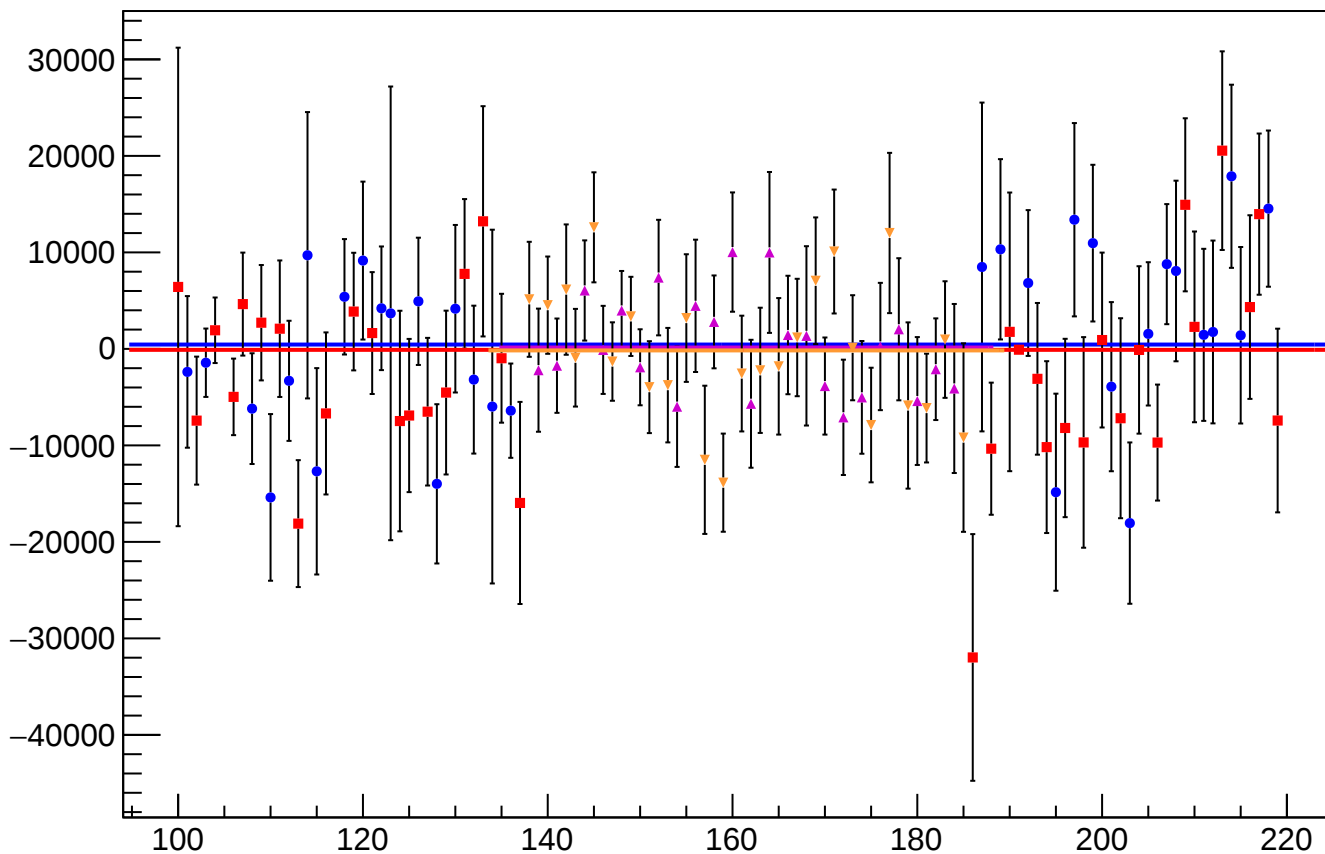
Right: 1969.525+/-0.229 χ^2/NDF : 901437.9/69

In: 1933.030+/-0.230 χ^2/NDF : 690280.4/55

Out: 1934.652+/-0.223 χ^2/NDF : 310186.3/61

All: 1933.866+/-0.160 χ^2/NDF : 1000492.3/11

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: 449.506+/-1321.454 χ^2/NDF : 37.3/32

Left Out: -157.539+/-1165.844 χ^2/NDF : 29.5/24

Right Out: -99.164+/-109.506 χ^2/NDF : 44.6/36

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

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

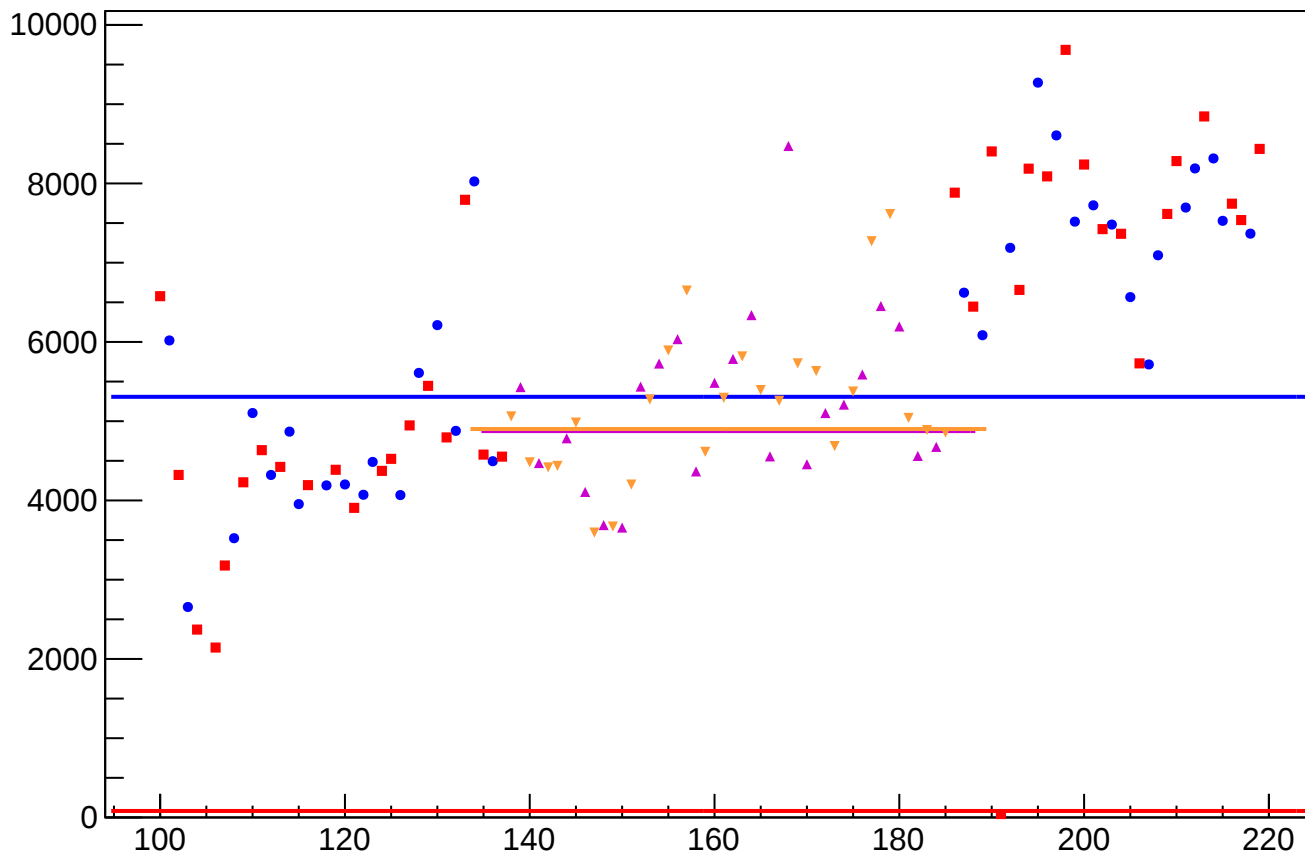
Right: -95.422+/-109.132 χ^2/NDF : 82.1/69

In: 278.159+/-884.655 χ^2/NDF : 52.0/55

Out: -99.674+/-109.027 χ^2/NDF : 74.1/61

All: -94.021+/-108.208 χ^2/NDF : 126.3/117

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 5307.596 $\pm$ 0.934 χ^2 /NDF: 3818919.7/32

Left Out: 4901.357 $\pm$ 0.824 χ^2 /NDF: 1136916.0/24

Right Out: 81.904 $\pm$ 0.077 χ^2 /NDF: 37282169.6/36

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

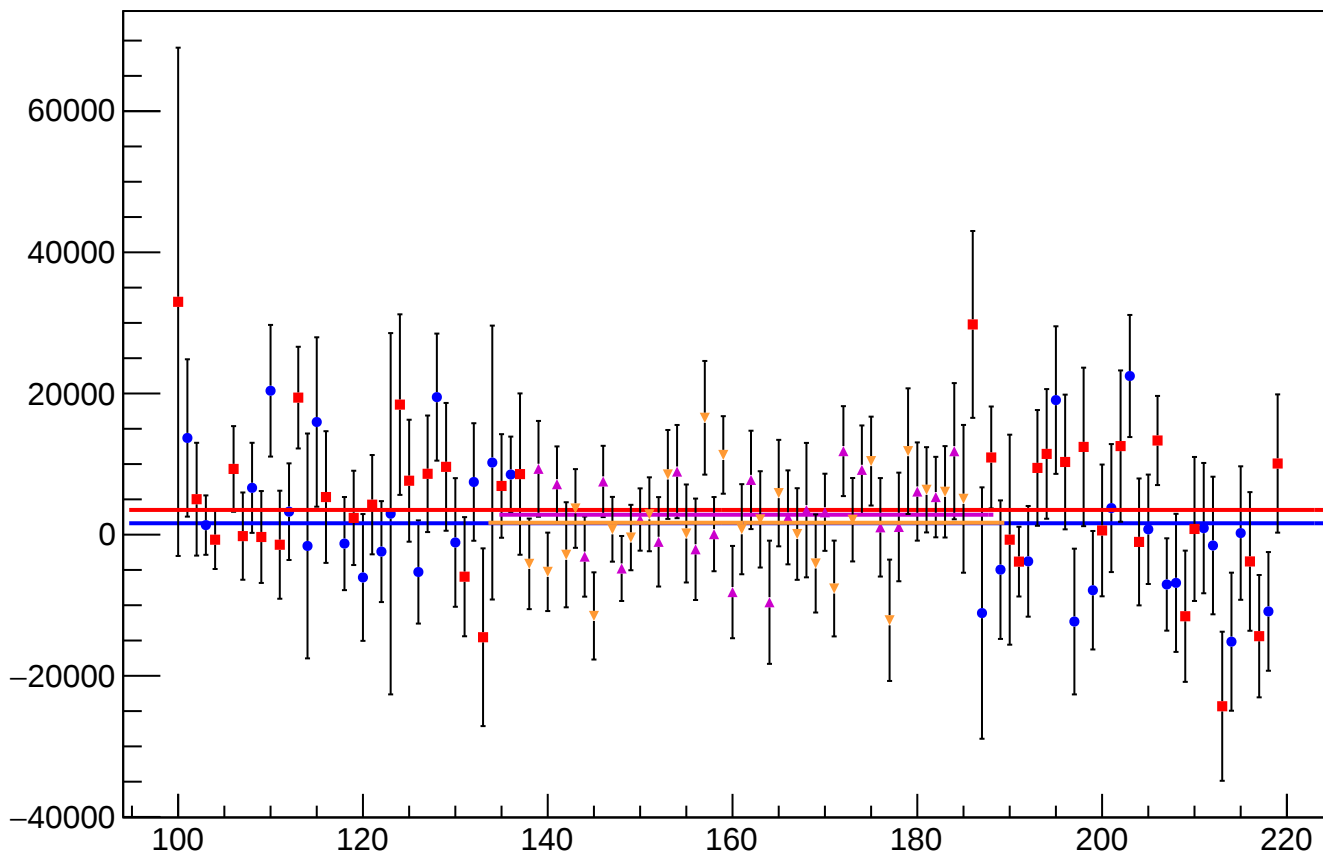
Right: 117.544 $\pm$ 0.077 χ^2 /NDF: 72163933.5/69

In: 5068.939 $\pm$ 0.626 χ^2 /NDF: 5166332.0/55

Out: 124.052 $\pm$ 0.077 χ^2 /NDF: 72298003.4/61

All: 198.034 $\pm$ 0.077 χ^2 /NDF: 139017204.7/131

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 1614.339+/-1442.460 χ^2/NDF : 36.9/32

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

Right Out: 3501.460+/-1321.511 χ^2/NDF : 43.0/36

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

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

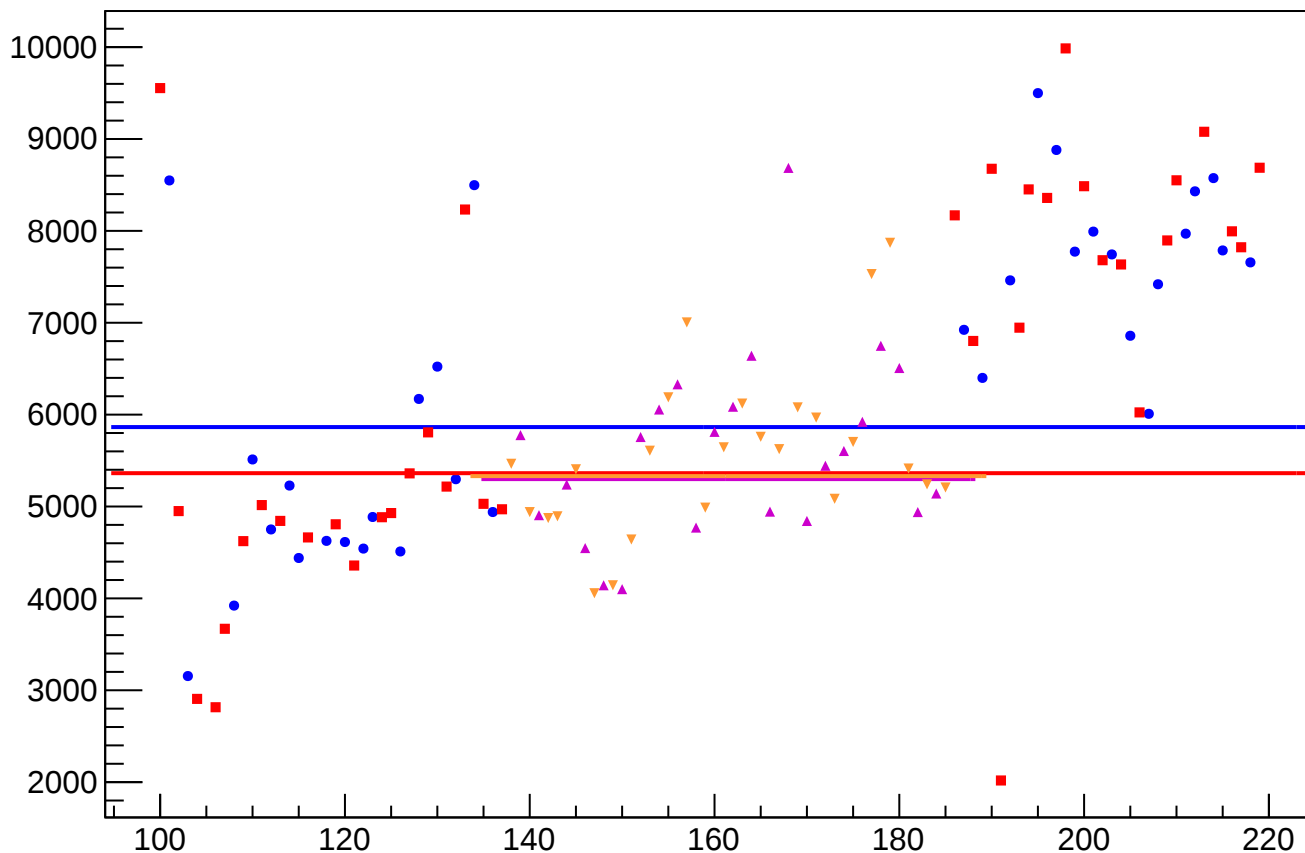
Right: 2640.320+/-974.408 χ^2/NDF : 80.8/69

In: 2287.232+/-960.910 χ^2/NDF : 55.3/55

Out: 2551.960+/-912.550 χ^2/NDF : 69.3/61

All: 2426.425+/-661.706 χ^2/NDF : 124.7/117

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 5864.593+/-1.020 χ^2/NDF : 3055365.3/32

Left Out: 5330.725+/-0.892 χ^2/NDF : 868061.7/24

Right Out: 5362.788+/-0.931 χ^2/NDF : 5131025.6/36

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

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

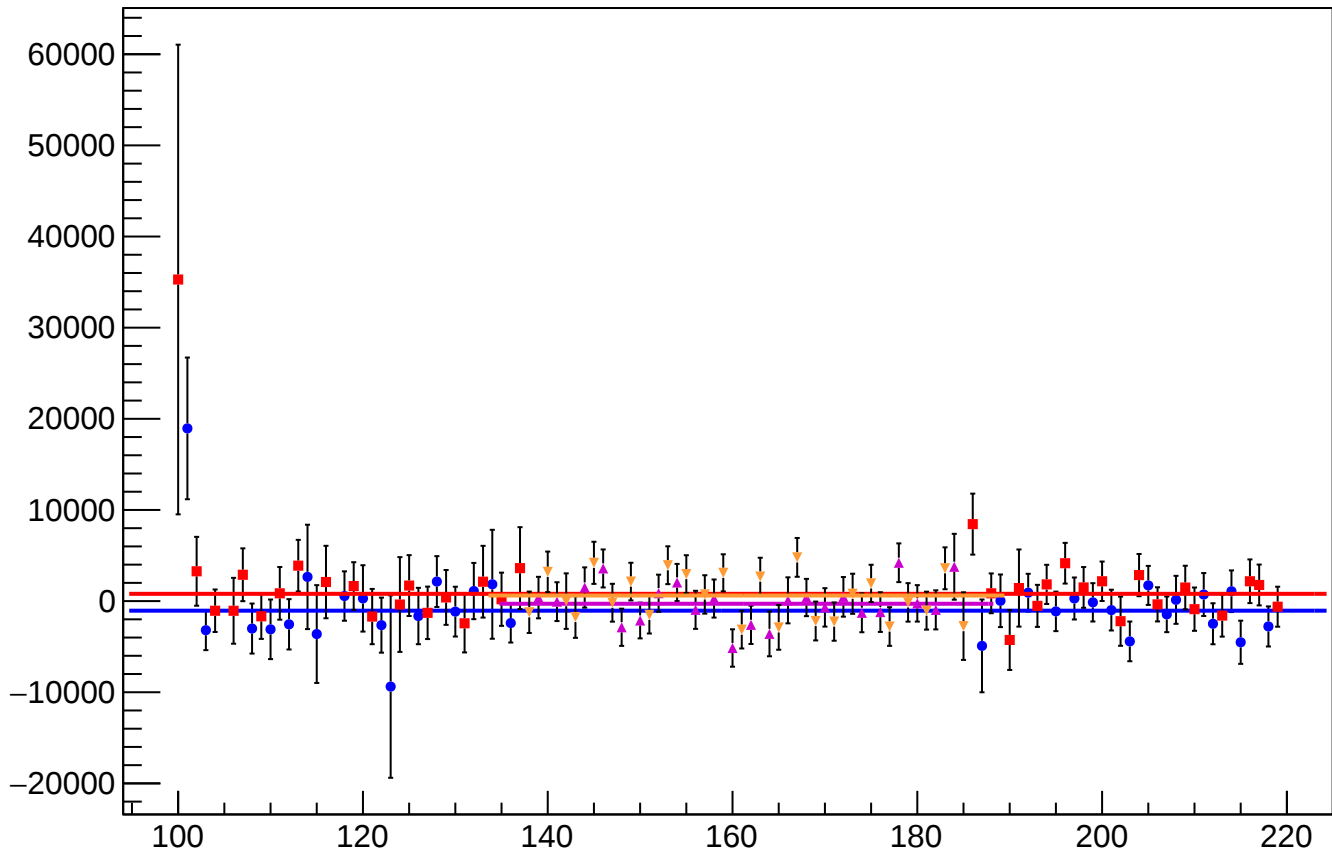
Right: 5590.926+/-0.688 χ^2/NDF : 8318392.5/69

In: 5549.620+/-0.679 χ^2/NDF : 4182827.6/55

Out: 5346.068+/-0.644 χ^2/NDF : 5999705.4/61

All: 5442.428+/-0.467 χ^2/NDF : 10229793.8/122

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1051.796 $\pm$ 460.957 χ^2/NDF : 24.4/32

Left Out: 612.314 $\pm$ 438.264 χ^2/NDF : 32.7/24

Right Out: 798.149 $\pm$ 444.568 χ^2/NDF : 24.9/36

Left In: -293.009 $\pm$ 449.575 χ^2/NDF : 23.6/22

Left: 171.185 $\pm$ 313.822 χ^2/NDF : 58.4/47

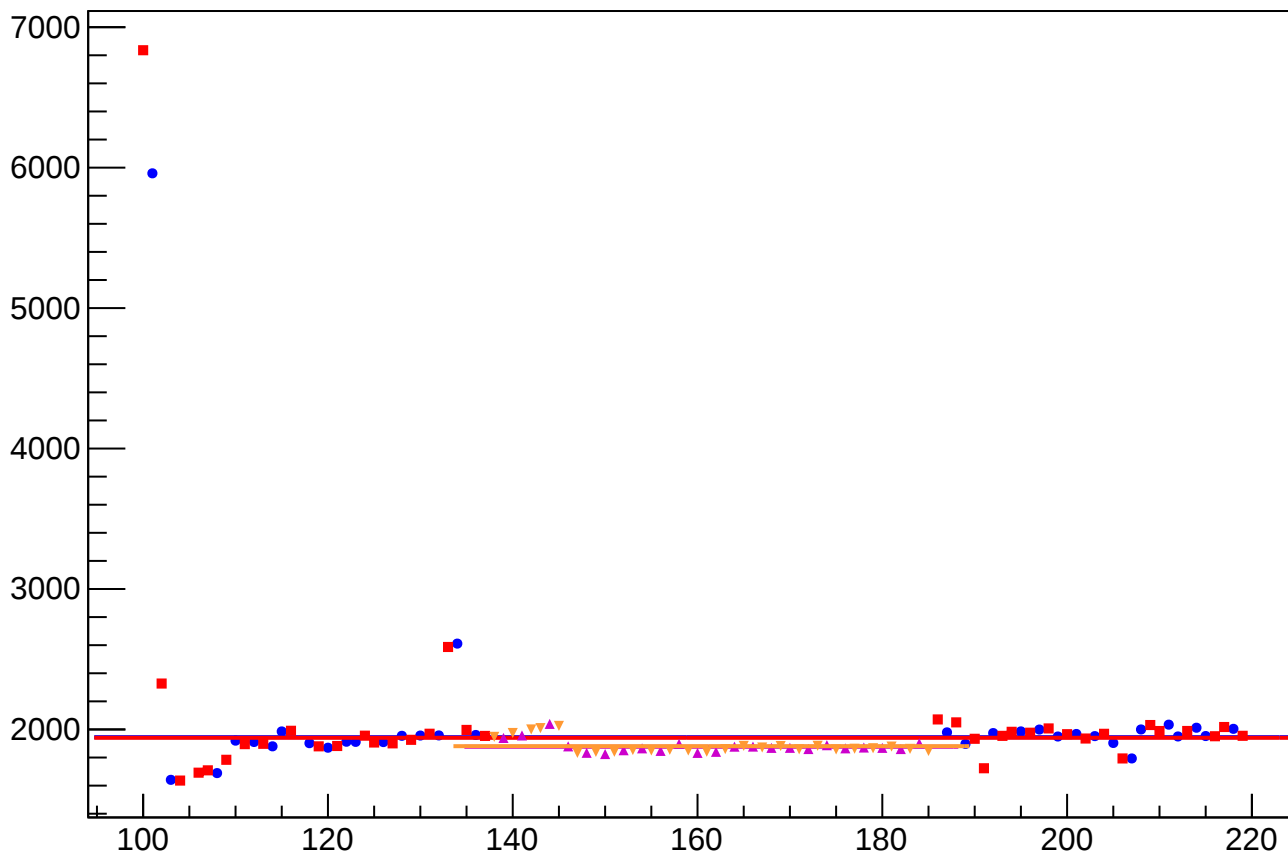
Right: -93.352 $\pm$ 319.994 χ^2/NDF : 57.6/69

In: -662.919 $\pm$ 321.846 χ^2/NDF : 49.5/55

Out: 703.905 $\pm$ 312.104 χ^2/NDF : 57.7/61

All: 41.492 $\pm$ 224.056 χ^2/NDF : 116.4/117

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1945.085 $\pm$ 0.326 χ^2 /NDF: 639841.7/32

Left Out: 1880.808 $\pm$ 0.310 χ^2 /NDF:28655.5/24

Right Out: 1940.678 $\pm$ 0.314 χ^2 /NDF: 253629.5/36

Left In: 1876.685 $\pm$ 0.318 χ^2 /NDF:20499.7/22

Left: 1878.799 $\pm$ 0.222 χ^2 /NDF: 49241.5/47

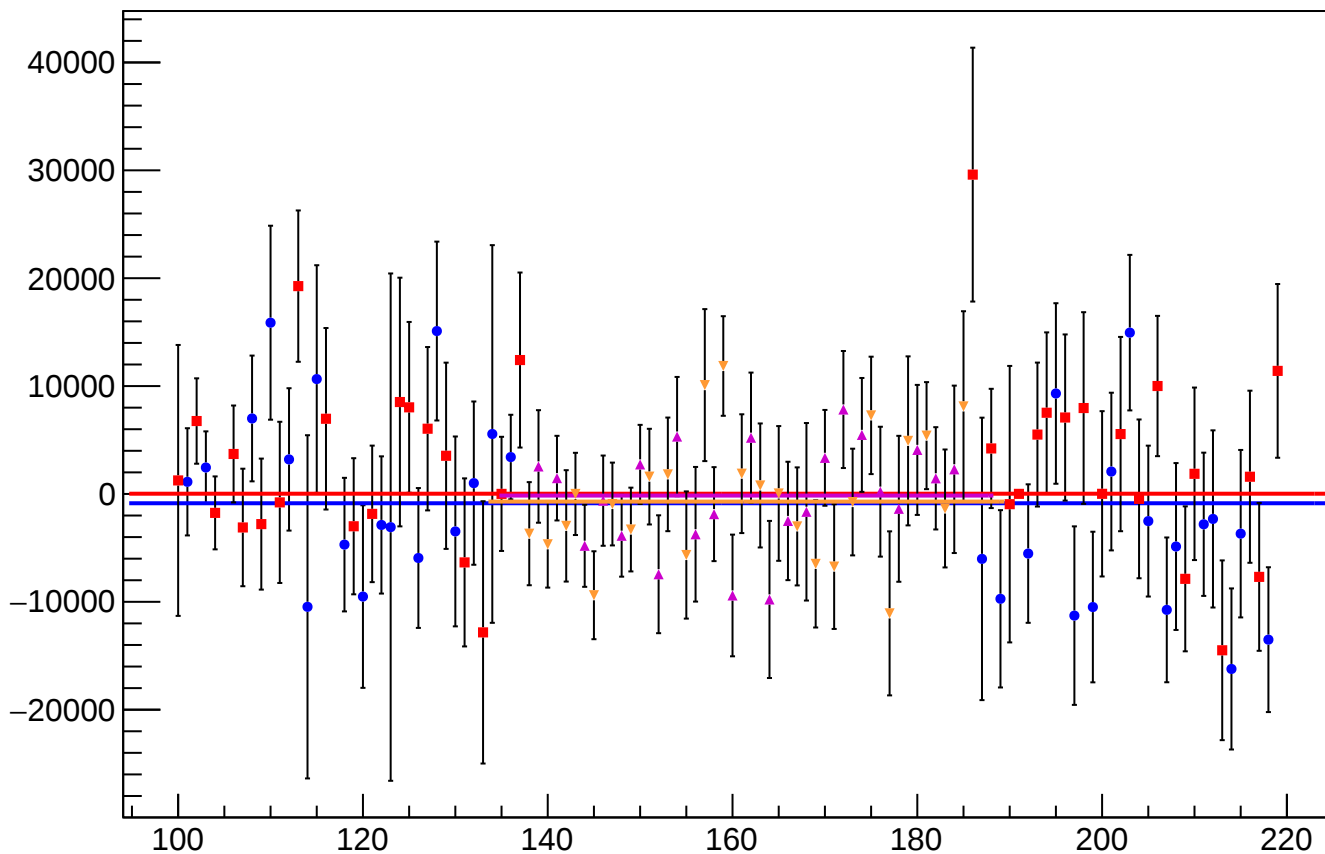
Right: 1942.800 $\pm$ 0.226 χ^2 /NDF: 893565.9/69

In: 1910.030 $\pm$ 0.228 χ^2 /NDF:682910.3/55

Out: 1910.341 $\pm$ 0.221 χ^2 /NDF:300695.7/61

All: 1910.190 $\pm$ 0.158 χ^2 /NDF: 983607.0/117

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: -862.326 ± 1197.964 $\chi^2/\text{NDF}: 38.0/32$

Left Out: -707.785 ± 1017.719 $\chi^2/\text{NDF}: 27.1/24$

Right Out: 22.226 ± 85.763 $\chi^2/\text{NDF}: 40.2/36$

Left In: -150.495 ± 1053.655 $\chi^2/\text{NDF}: 16.9/22$

Left: -438.806 ± 732.011 $\chi^2/\text{NDF}: 44.2/47$

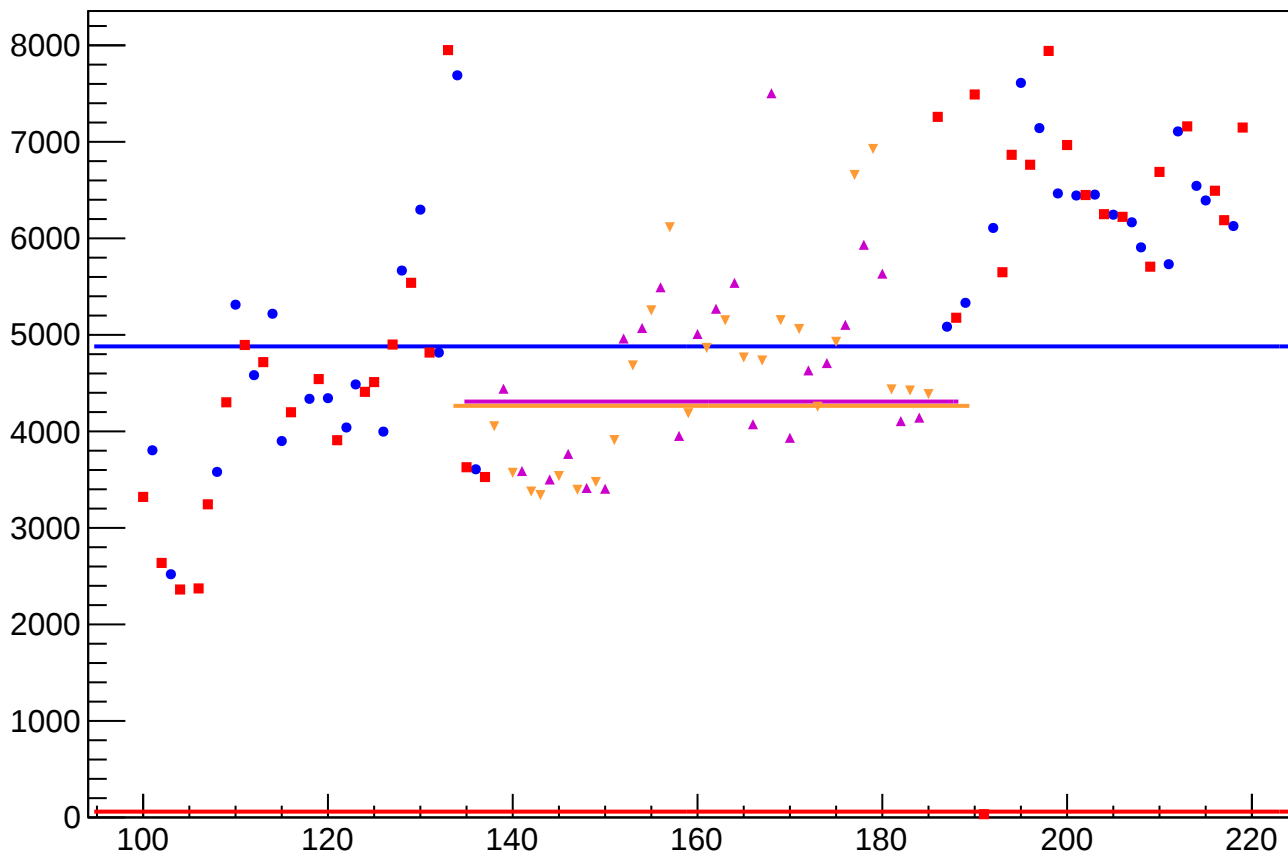
Right: 17.715 ± 85.544 $\chi^2/\text{NDF}: 78.7/69$

In: -460.975 ± 791.174 $\chi^2/\text{NDF}: 55.1/55$

Out: 17.078 ± 85.461 $\chi^2/\text{NDF}: 67.8/61$

All: 11.565 ± 84.966 $\chi^2/\text{NDF}: 123.3/117$

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Left: 4285.960 +/- 0.518 χ^2/NDF : 2661888.1/47

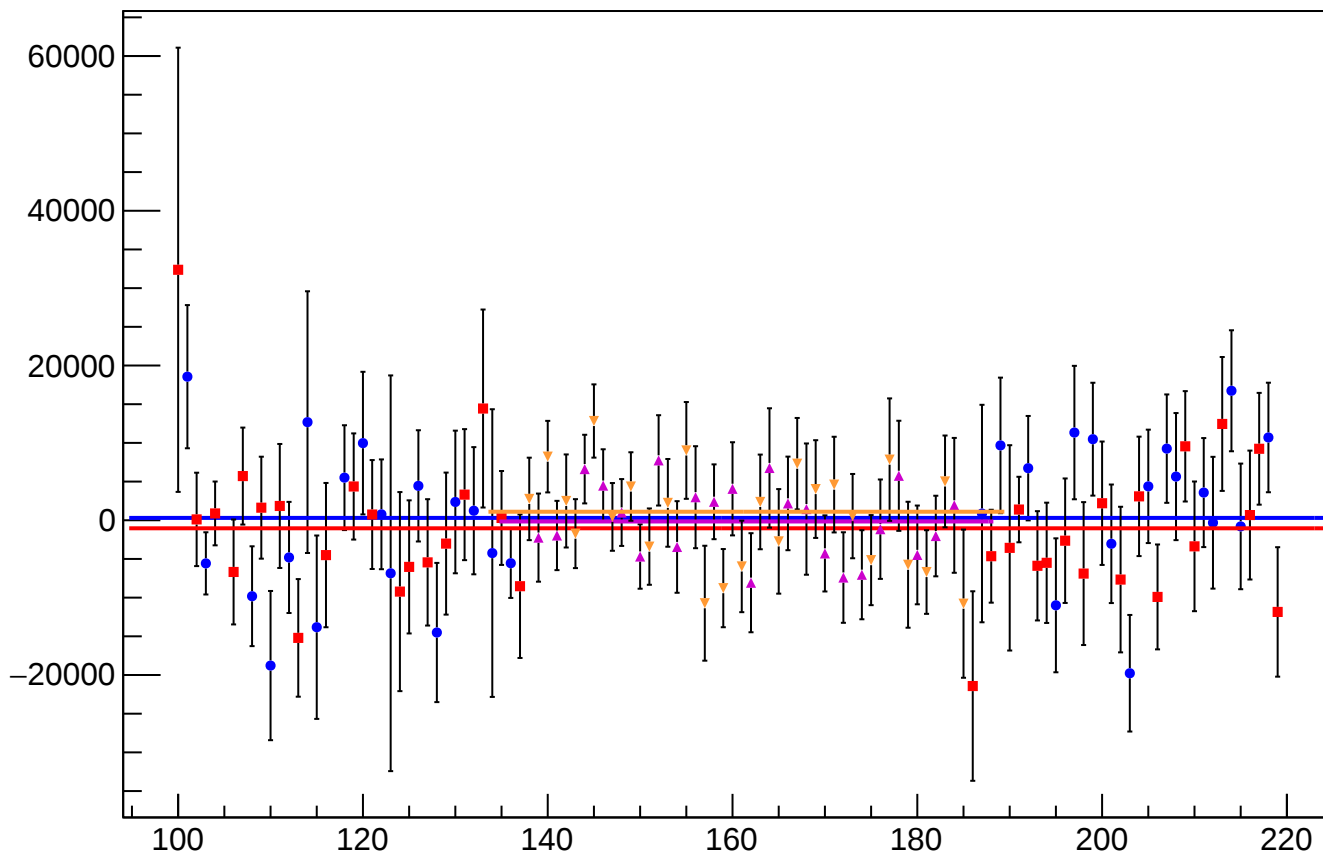
Right: 84.929 +/- 0.060 χ^2/NDF : 72666673.0/69

In: 4558.261 +/- 0.559 χ^2/NDF : 4544042.1/55

Out: 89.995 +/- 0.060 χ^2/NDF : 72714063.5/61

All: 141.529 +/- 0.060 χ^2/NDF : 140313975.1/131

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: 304.270 ± 1331.985 $\chi^2/\text{NDF}: 45.3/32$

Left Out: 1102.204 ± 1126.663 $\chi^2/\text{NDF}: 28.6/24$

Right Out: -1039.648 ± 1222.485 $\chi^2/\text{NDF}: 27.4/36$

Left In: -158.683 ± 1161.507 $\chi^2/\text{NDF}: 15.5/22$

Left: 490.957 ± 808.709 $\chi^2/\text{NDF}: 44.7/47$

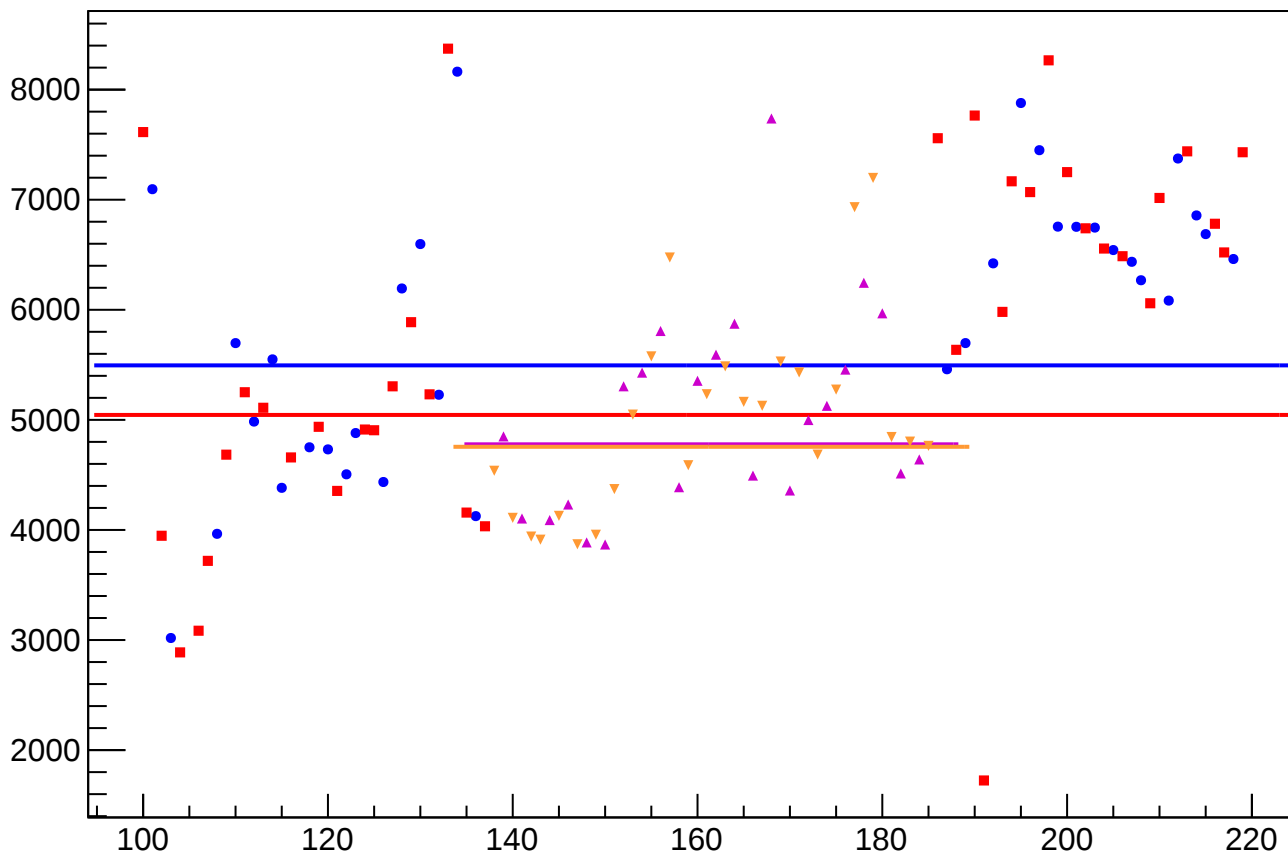
Right: -425.192 ± 900.655 $\chi^2/\text{NDF}: 73.3/69$

In: 41.289 ± 875.418 $\chi^2/\text{NDF}: 60.9/55$

Out: 118.499 ± 828.478 $\chi^2/\text{NDF}: 57.6/61$

All: 82.019 ± 601.733 $\chi^2/\text{NDF}: 118.5/117$

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 5495.053 $\pm$ 0.942 χ^2/NDF : 2160862.4/32

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

Right Out: 5044.843 $\pm$ 0.862 χ^2/NDF : 4164296.0/36

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

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

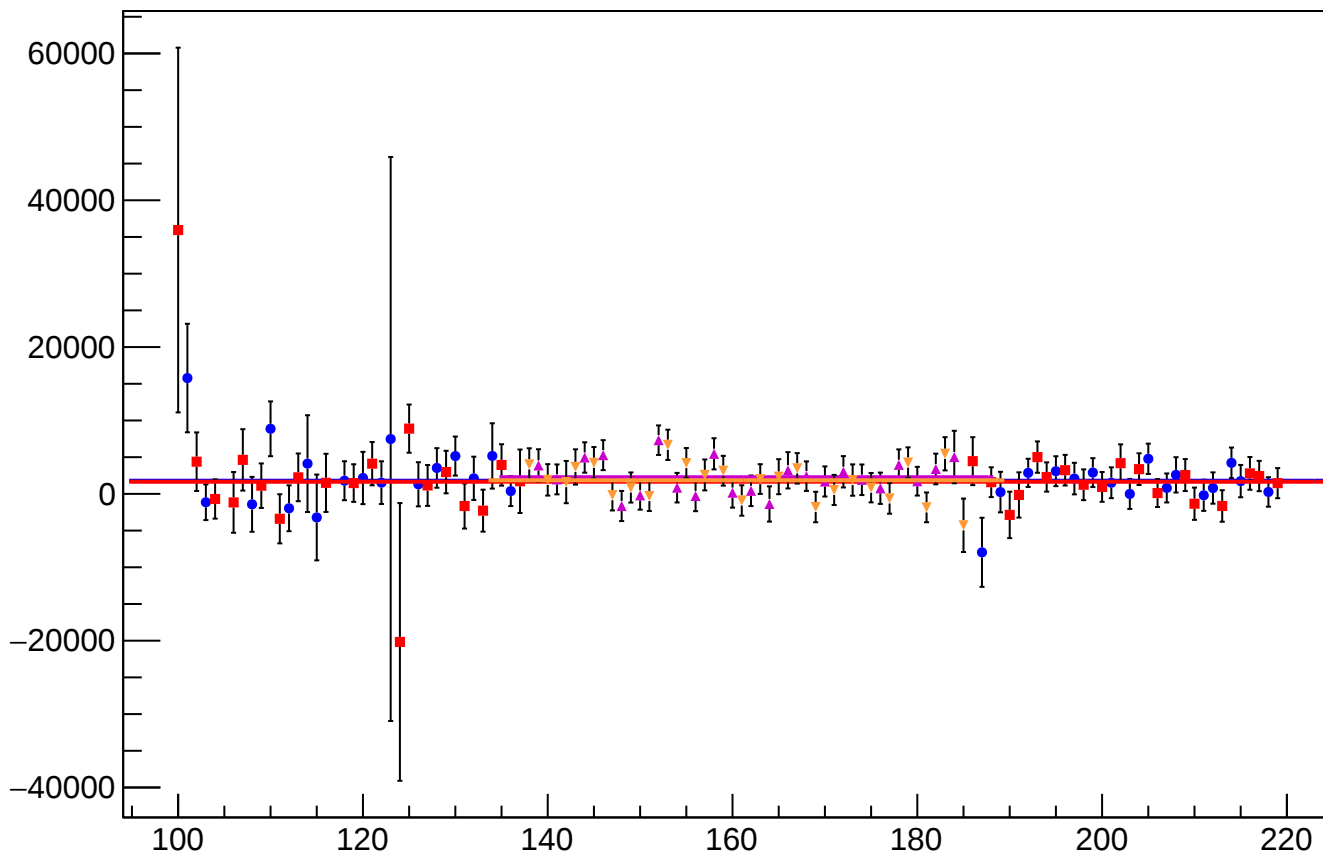
Right: 5250.033 $\pm$ 0.636 χ^2/NDF : 6449509.3/69

In: 5087.634 $\pm$ 0.619 χ^2/NDF : 3440555.7/55

Out: 4888.745 $\pm$ 0.585 χ^2/NDF : 5178446.1/61

All: 4982.582 $\pm$ 0.425 χ^2/NDF : 8673529.4/111

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1793.447 $\pm$ 445.591 χ^2 /NDF: 26.7/32

Left Out: 1856.570 $\pm$ 430.977 χ^2 /NDF:30.0/24

Right Out: 1655.410 $\pm$ 432.024 χ^2 /NDF: 30.8/36

Left In: 2268.464 $\pm$ 441.710 χ^2 /NDF:26.9/22

Left: 2057.452 $\pm$ 308.471 χ^2 /NDF: 57.3/47

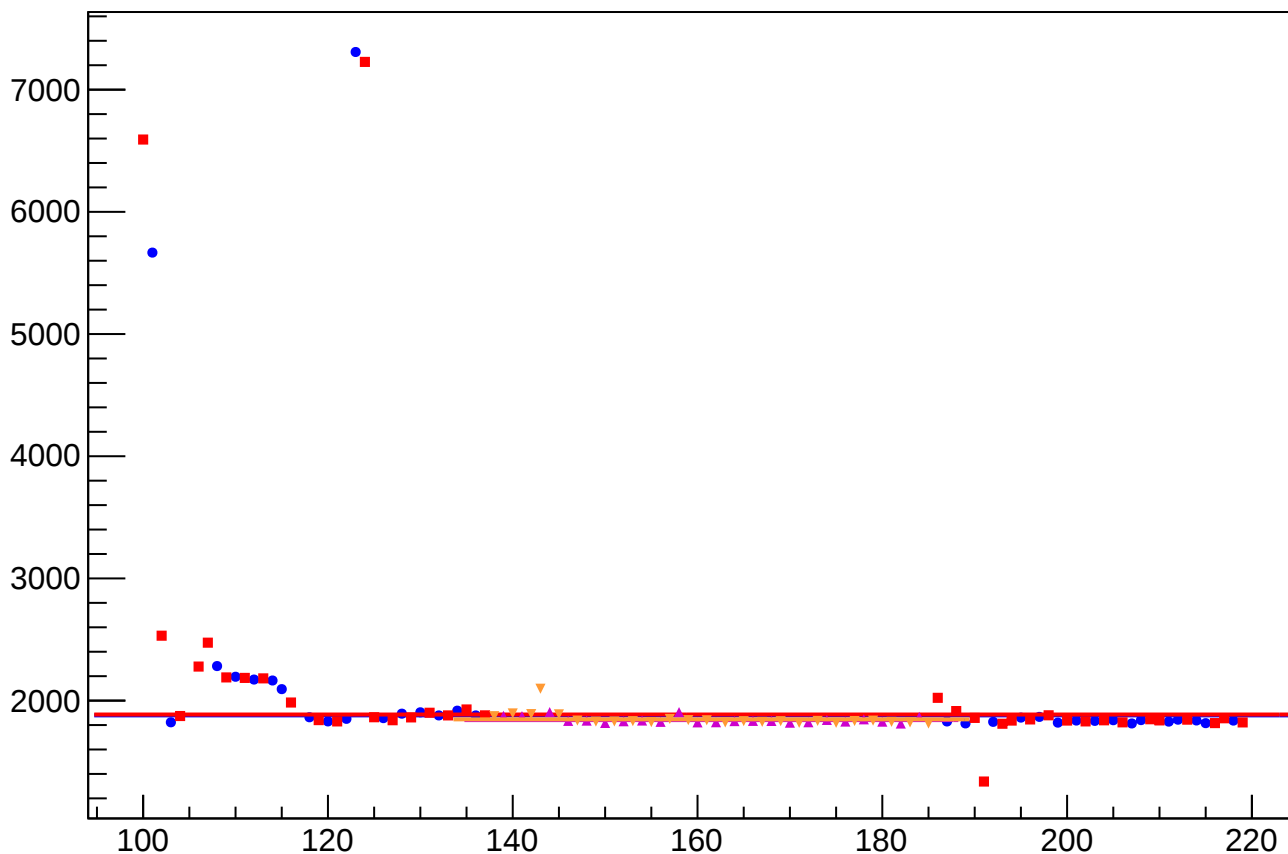
Right: 1722.295 $\pm$ 310.173 χ^2 /NDF: 57.6/69

In: 2033.033 $\pm$ 313.699 χ^2 /NDF:54.2/55

Out: 1756.234 $\pm$ 305.116 χ^2 /NDF:60.9/61

All: 1890.795 $\pm$ 218.721 χ^2 /NDF: 115.5/117

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1879.201+/-0.315 χ^2/NDF : 644136.9/32

Left Out: 1846.602+/-0.305 χ^2/NDF : 27302.8/24

Right Out: 1886.245+/-0.305 χ^2/NDF : 481528.0/36

Left In: 1840.541+/-0.312 χ^2/NDF : 6740.2/22

Left: 1843.646+/-0.218 χ^2/NDF : 34235.8/47

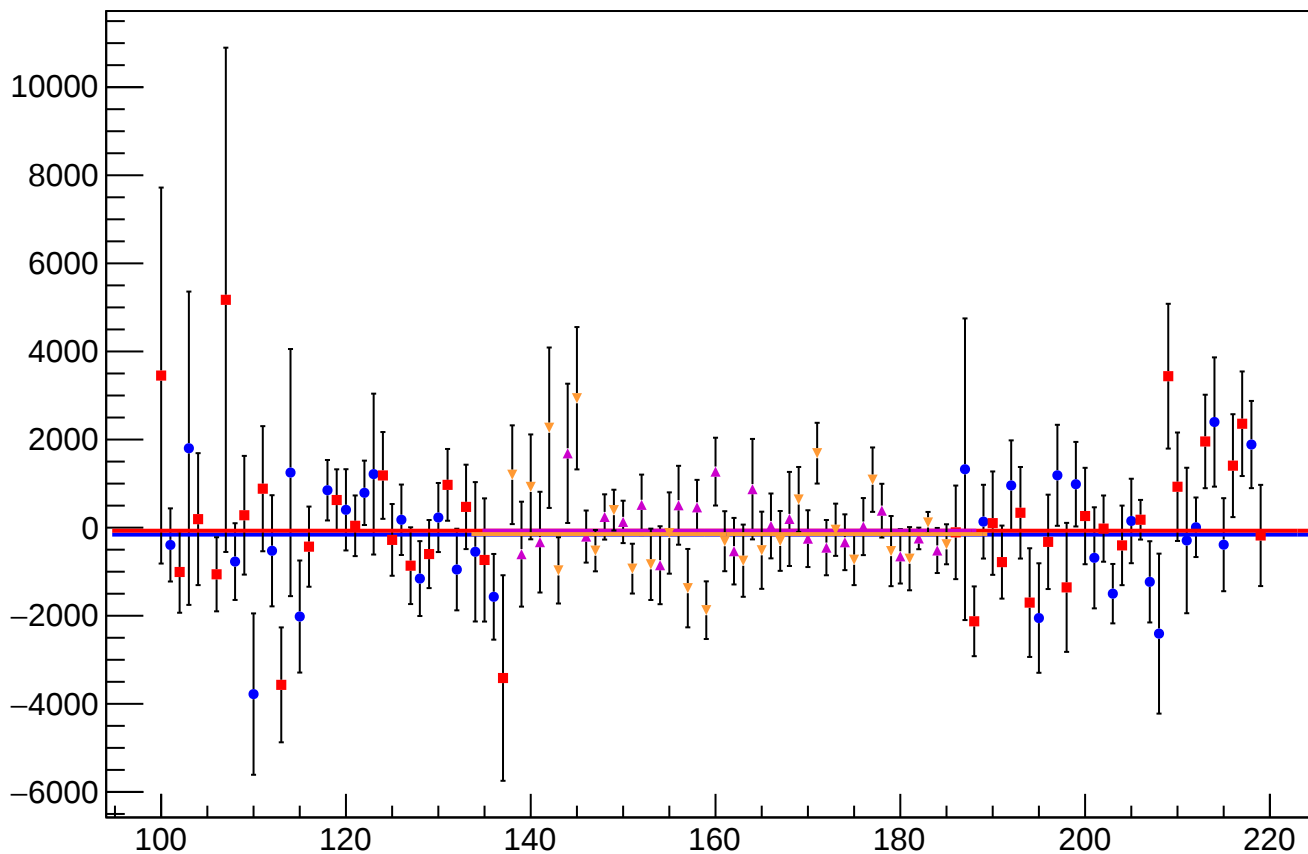
Right: 1882.832+/-0.219 χ^2/NDF : 1125922.5/69

In: 1859.702+/-0.222 χ^2/NDF : 658470.4/55

Out: 1866.376+/-0.216 χ^2/NDF : 517271.5/61

All: 1863.131+/-0.155 χ^2/NDF : 1176206.9/117

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -157.854+/-175.115 χ^2/NDF : 37.9/32

Left Out: -146.999+/-121.984 χ^2/NDF : 37.7/24

Right Out: -69.816+/-159.302 χ^2/NDF : 45.5/36

Left In: -70.340+/-126.373 χ^2/NDF : 12.3/22

Left: -110.024+/-87.766 χ^2/NDF : 50.1/47

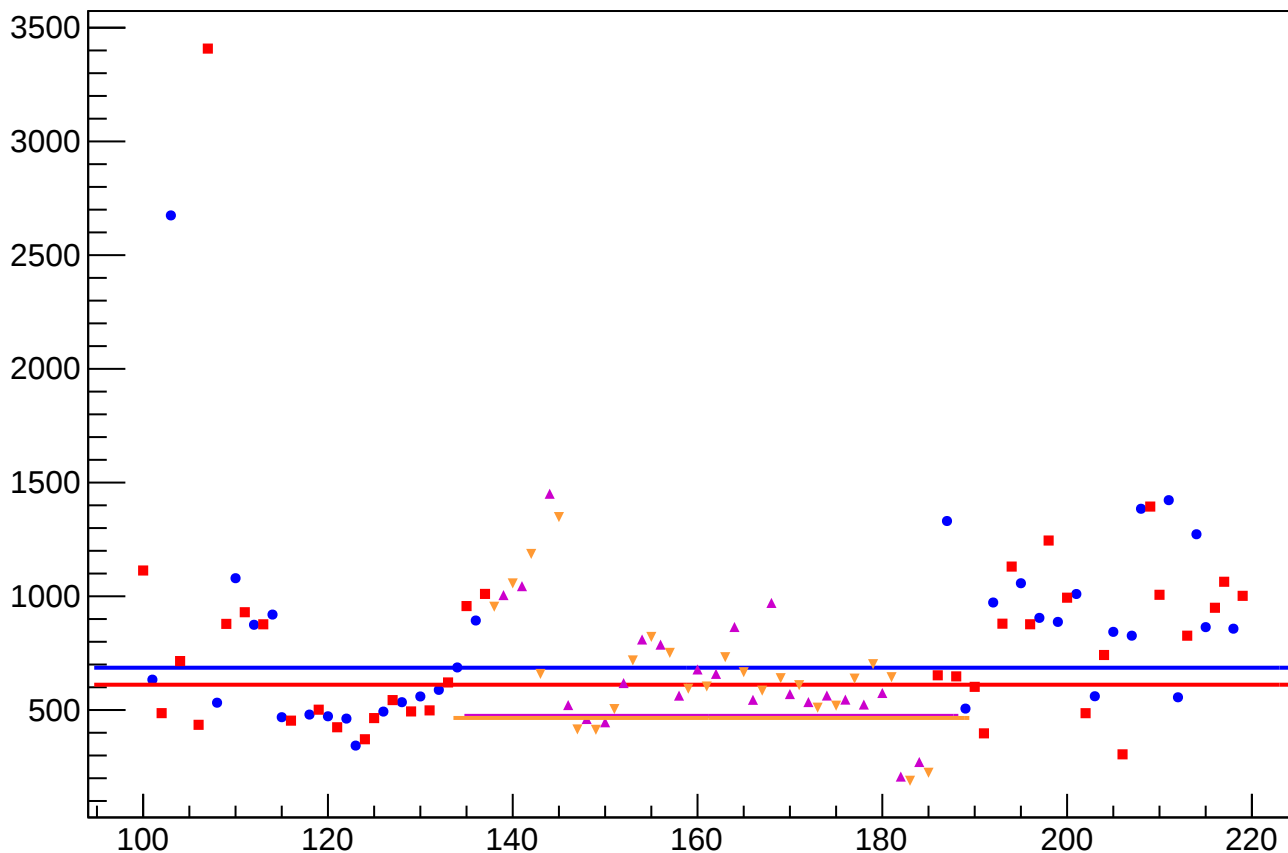
Right: -109.682+/-117.838 χ^2/NDF : 83.6/69

In: -100.309+/-102.475 χ^2/NDF : 50.4/55

Out: -118.470+/-96.851 χ^2/NDF : 83.3/61

All: -109.902+/-70.388 χ^2/NDF : 133.7/117

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 685.967 ± 0.124 $\chi^2/\text{NDF}: 3990595.0/32$

Left Out: 465.080 ± 0.086 $\chi^2/\text{NDF}: 7086137.6/24$

Right Out: 611.229 ± 0.113 $\chi^2/\text{NDF}: 5445895.7/36$

Left In: 474.263 ± 0.089 $\chi^2/\text{NDF}: 6173100.1/22$

Left: 469.509 ± 0.062 $\chi^2/\text{NDF}: 13264703.6/47$

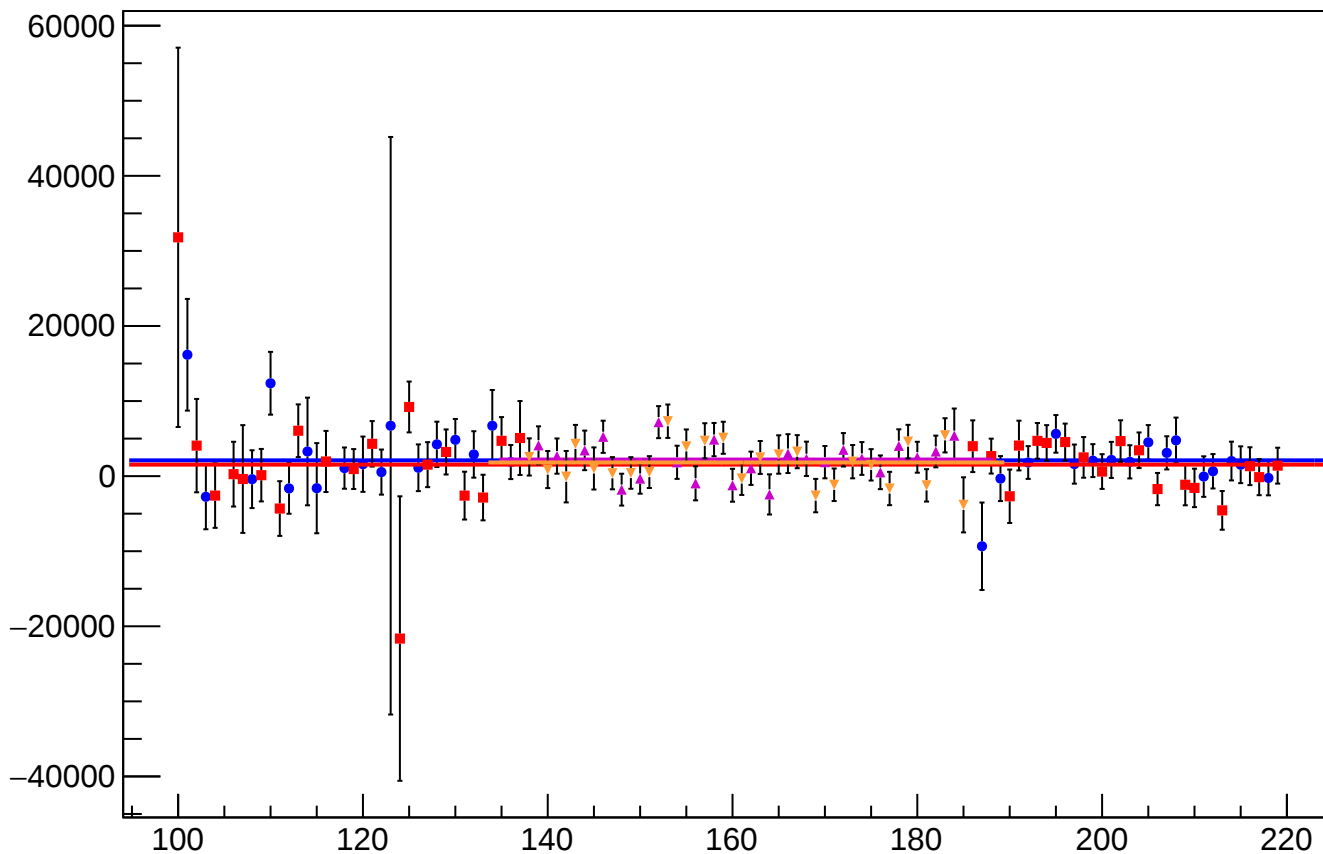
Right: 645.072 ± 0.083 $\chi^2/\text{NDF}: 9635835.5/69$

In: 546.760 ± 0.072 $\chi^2/\text{NDF}: 12085797.2/55$

Out: 519.100 ± 0.068 $\chi^2/\text{NDF}: 13593171.5/61$

All: 532.150 ± 0.050 $\chi^2/\text{NDF}: 25755933.9/111$

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2102.263 $\pm$ 505.624 χ^2 /NDF: 26.7/32

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

Right Out: 1534.795 $\pm$ 493.020 χ^2 /NDF: 40.7/36

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

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

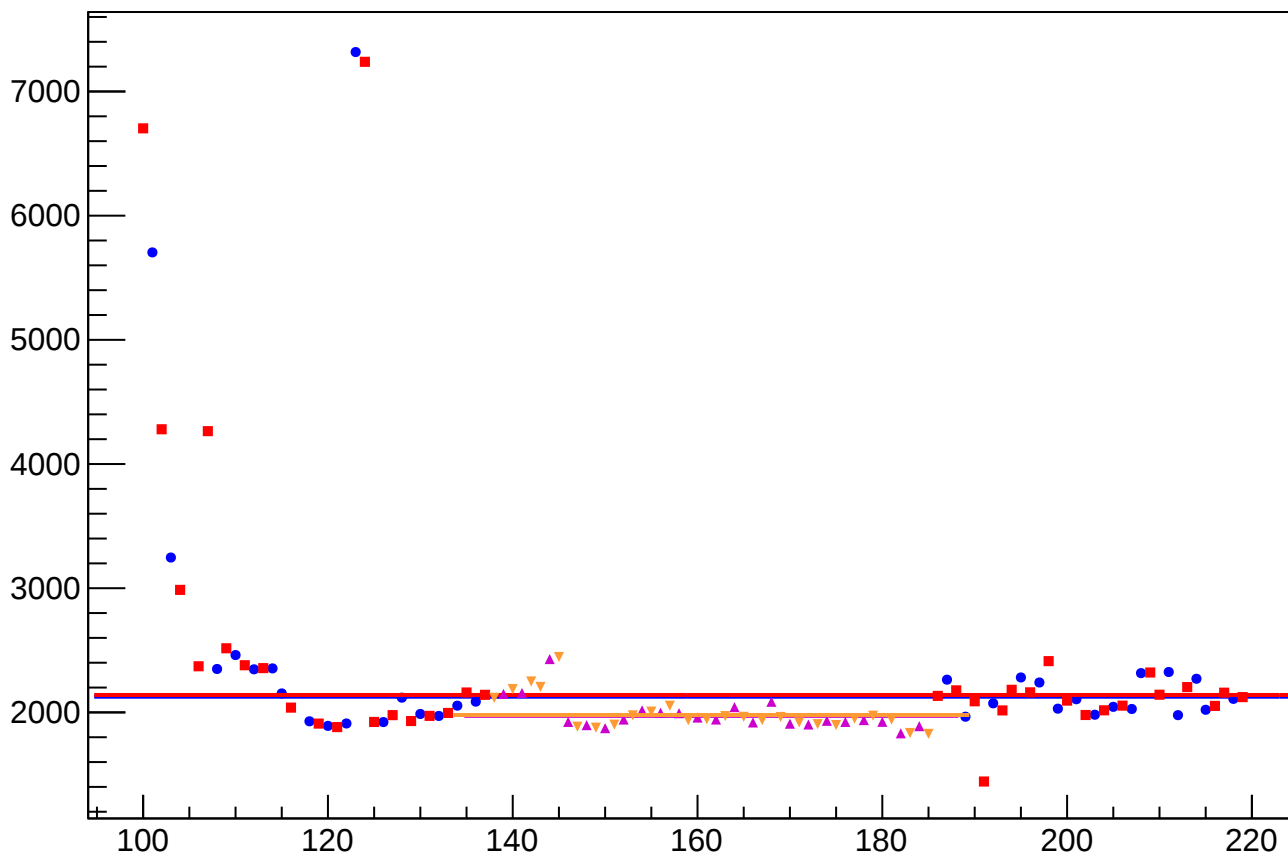
Right: 1811.368 $\pm$ 352.990 χ^2 /NDF: 68.1/69

In: 2158.596 $\pm$ 345.828 χ^2 /NDF:52.1/55

Out: 1688.600 $\pm$ 337.386 χ^2 /NDF:73.0/61

All: 1917.792 $\pm$ 241.497 χ^2 /NDF: 126.0/117

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2126.489 $\pm$ 0.358 χ^2 /NDF: 787825.3/32

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

Right Out: 2140.367 $\pm$ 0.349 χ^2 /NDF: 954399.6/36

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

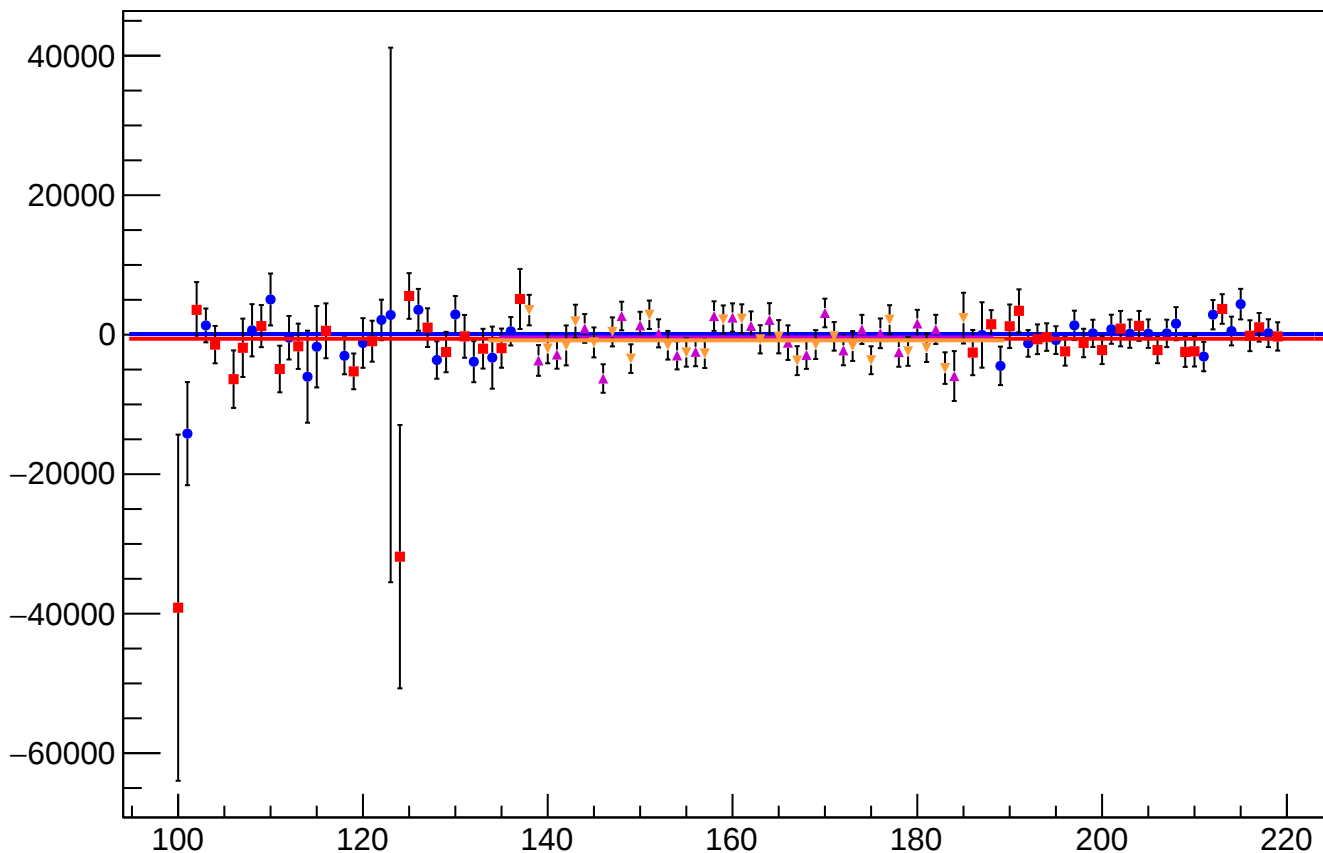
Right: 2133.603 $\pm$ 0.250 χ^2 /NDF: 1742997.3/69

In: 2044.359 $\pm$ 0.245 χ^2 /NDF:1003430.6/55

Out: 2054.567 $\pm$ 0.239 χ^2 /NDF:1207623.1/61

All: 2049.589 $\pm$ 0.171 χ^2 /NDF: 2211946.5/111

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: 100.152+/-442.502 χ^2/NDF : 27.8/32

Left Out: -808.436+/-430.304 χ^2/NDF : 27.9/24

Right Out: -578.239+/-428.760 χ^2/NDF : 33.5/36

Left In: -398.797+/-441.246 χ^2/NDF : 34.4/22

Left: -608.759+/-308.066 χ^2/NDF : 62.8/47

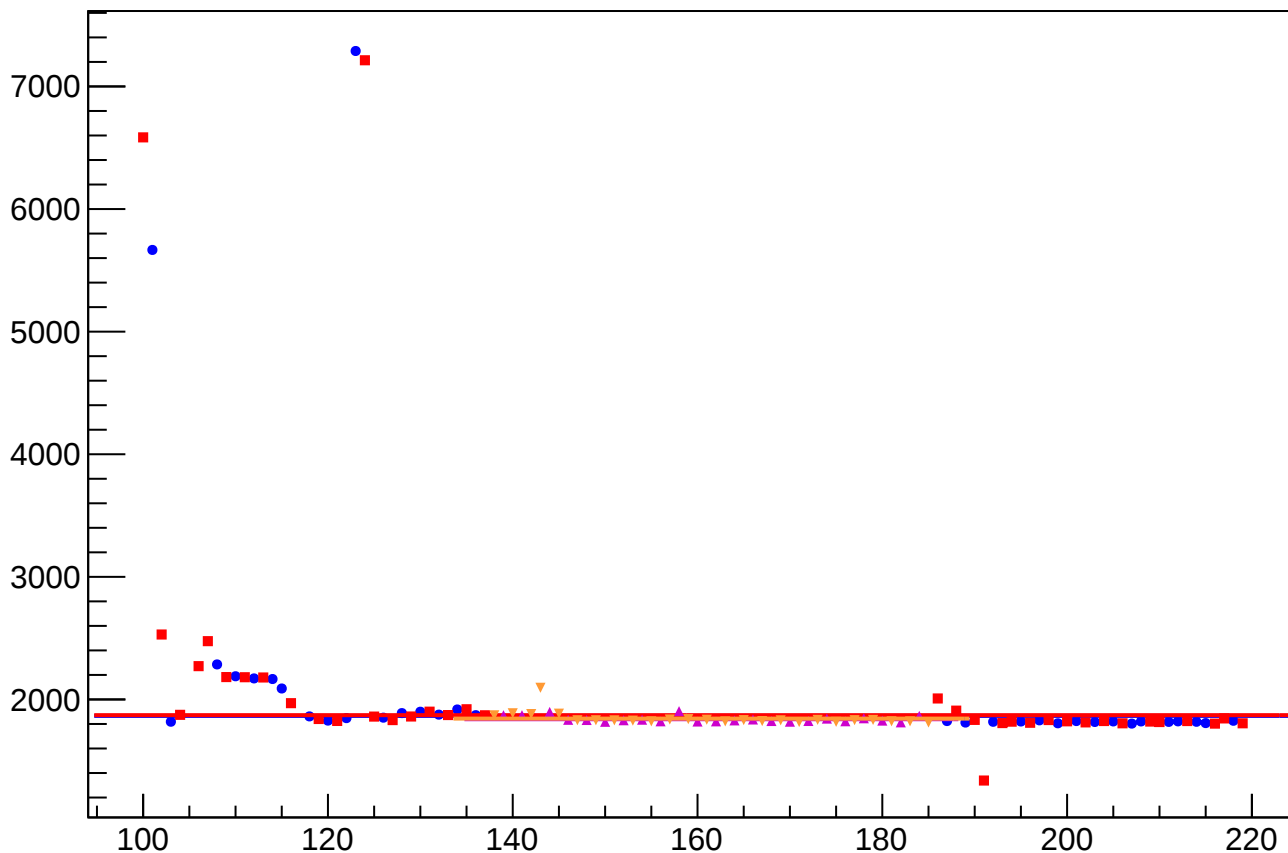
Right: -249.741+/-307.923 χ^2/NDF : 62.5/69

In: -150.032+/-312.451 χ^2/NDF : 62.8/55

Out: -692.924+/-303.723 χ^2/NDF : 61.6/61

All: -429.166+/-217.785 χ^2/NDF : 126.0/117

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1865.944+/-0.313 χ^2/NDF : 653967.5/32

Left Out: 1843.747+/-0.304 χ^2/NDF : 26867.4/24

Right Out: 1871.800+/-0.303 χ^2/NDF : 490439.9/36

Left In: 1838.611+/-0.312 χ^2/NDF : 6335.1/22

Left: 1841.243+/-0.218 χ^2/NDF : 33341.4/47

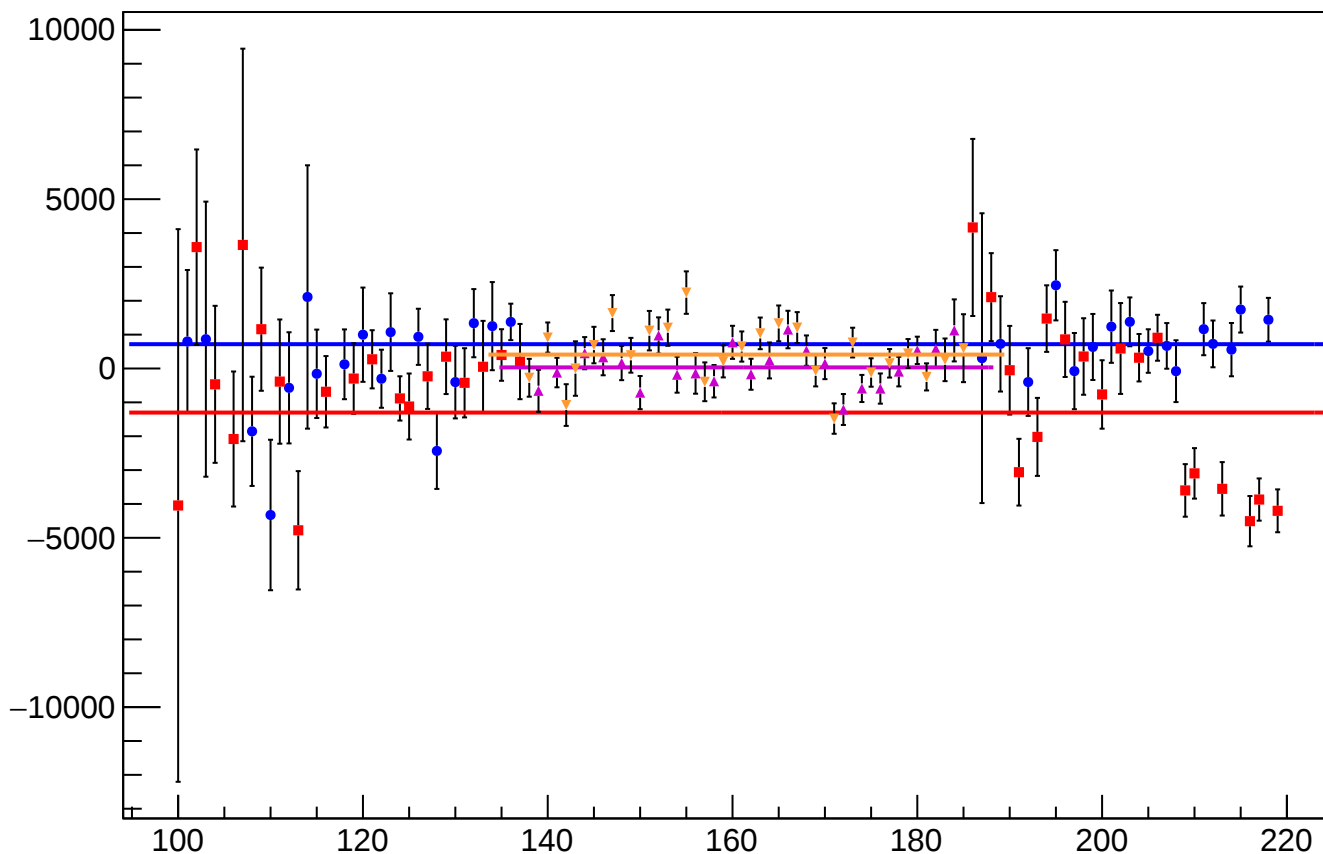
Right: 1868.964+/-0.218 χ^2/NDF : 1144588.1/69

In: 1852.239+/-0.221 χ^2/NDF : 664128.8/55

Out: 1857.824+/-0.215 χ^2/NDF : 521572.9/61

All: 1855.110+/-0.154 χ^2/NDF : 1186030.2/118

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 718.044 $\pm$ 165.436 χ^2 /NDF: 32.3/32

Left Out: 411.072 $\pm$ 100.456 χ^2 /NDF:61.2/24

Right Out: -1301.214 $\pm$ 163.370 χ^2 /NDF: 154.4/36

Left In: 32.456 $\pm$ 102.403 χ^2 /NDF:32.7/22

Left: 225.398 $\pm$ 71.712 χ^2 /NDF: 100.9/47

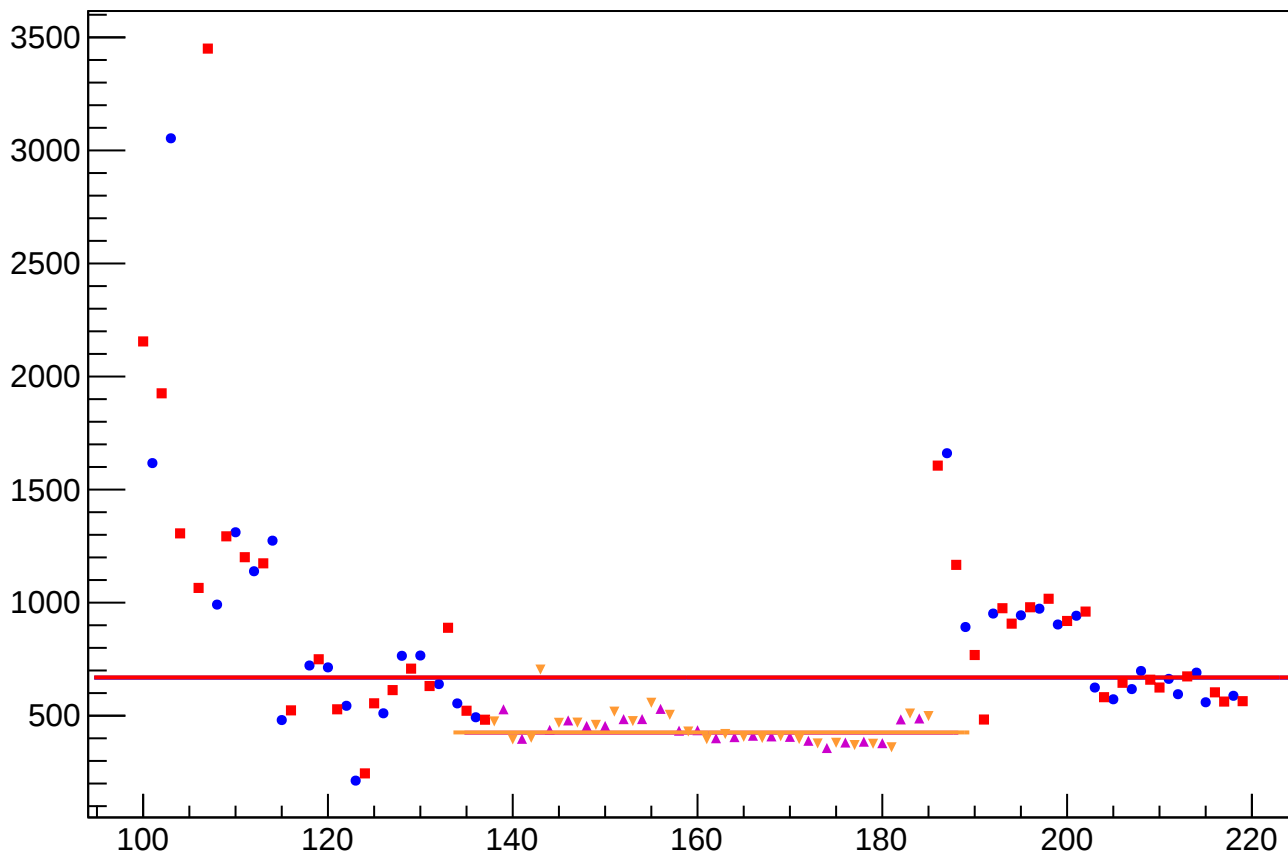
Right: -304.270 $\pm$ 116.244 χ^2 /NDF: 262.1/69

In: 222.372 $\pm$ 87.072 χ^2 /NDF:77.4/55

Out: -58.715 $\pm$ 85.573 χ^2 /NDF:295.3/61

All: 79.388 $\pm$ 61.032 χ^2 /NDF: 378.0/117

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 668.182 $\pm$ 0.117 χ^2 /NDF: 3320686.7/32

Left Out: 426.027 $\pm$ 0.071 χ^2 /NDF:733072.9/24

Right Out: 669.358 $\pm$ 0.116 χ^2 /NDF: 4501878.3/36

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

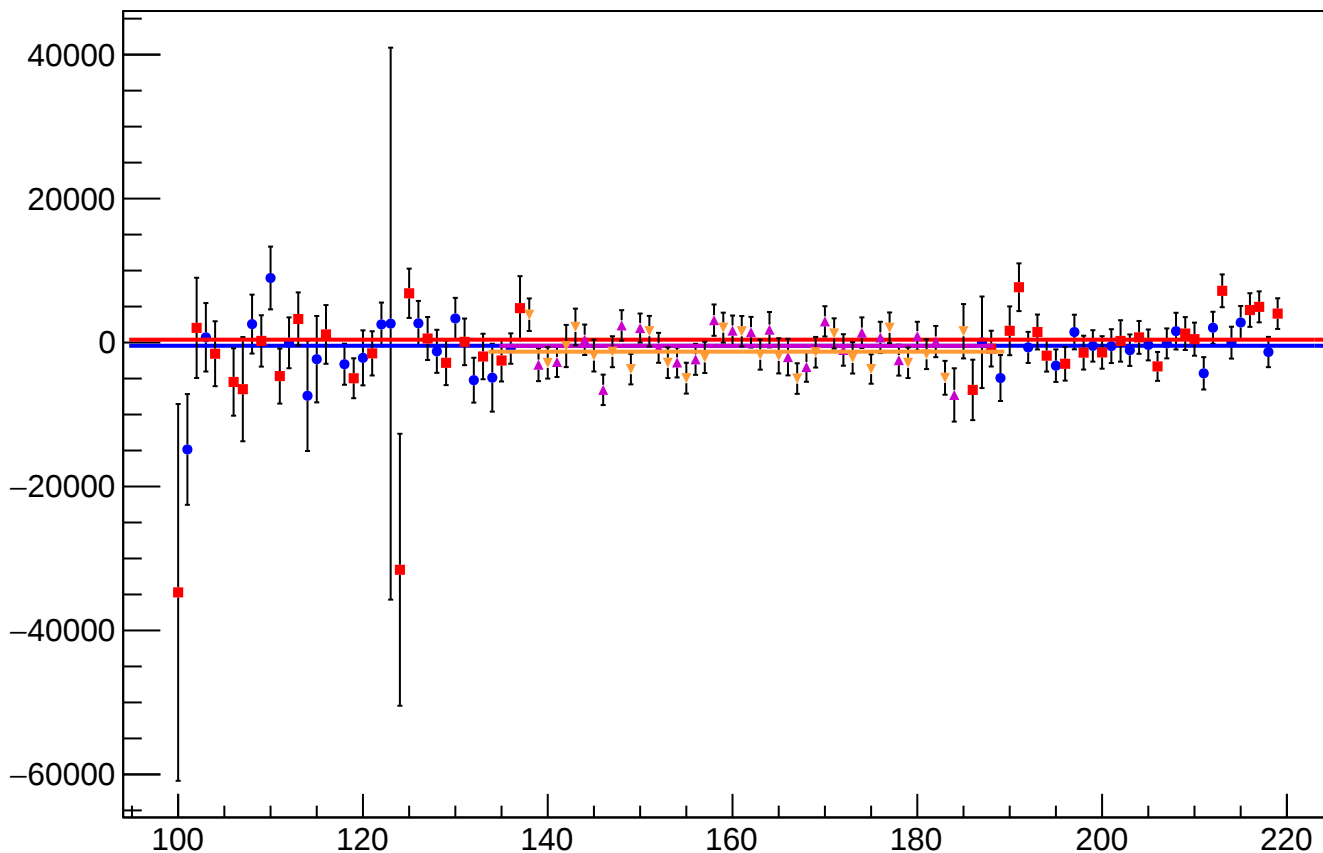
Right: 668.777 $\pm$ 0.082 χ^2 /NDF: 7822616.2/69

In: 492.103 $\pm$ 0.062 χ^2 /NDF:6845973.3/55

Out: 492.788 $\pm$ 0.061 χ^2 /NDF:8454513.3/61

All: 492.452 $\pm$ 0.043 χ^2 /NDF: 15300549.6/117

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -446.936+/-485.916 χ^2/NDF : 29.0/32

Left Out: -1267.885+/-443.219 χ^2/NDF :30.8/24

Right Out: 399.528+/-476.503 χ^2/NDF : 56.4/36

Left In: -462.599+/-453.947 χ^2/NDF :32.6/22

Left: -874.870+/-317.128 χ^2/NDF : 65.0/47

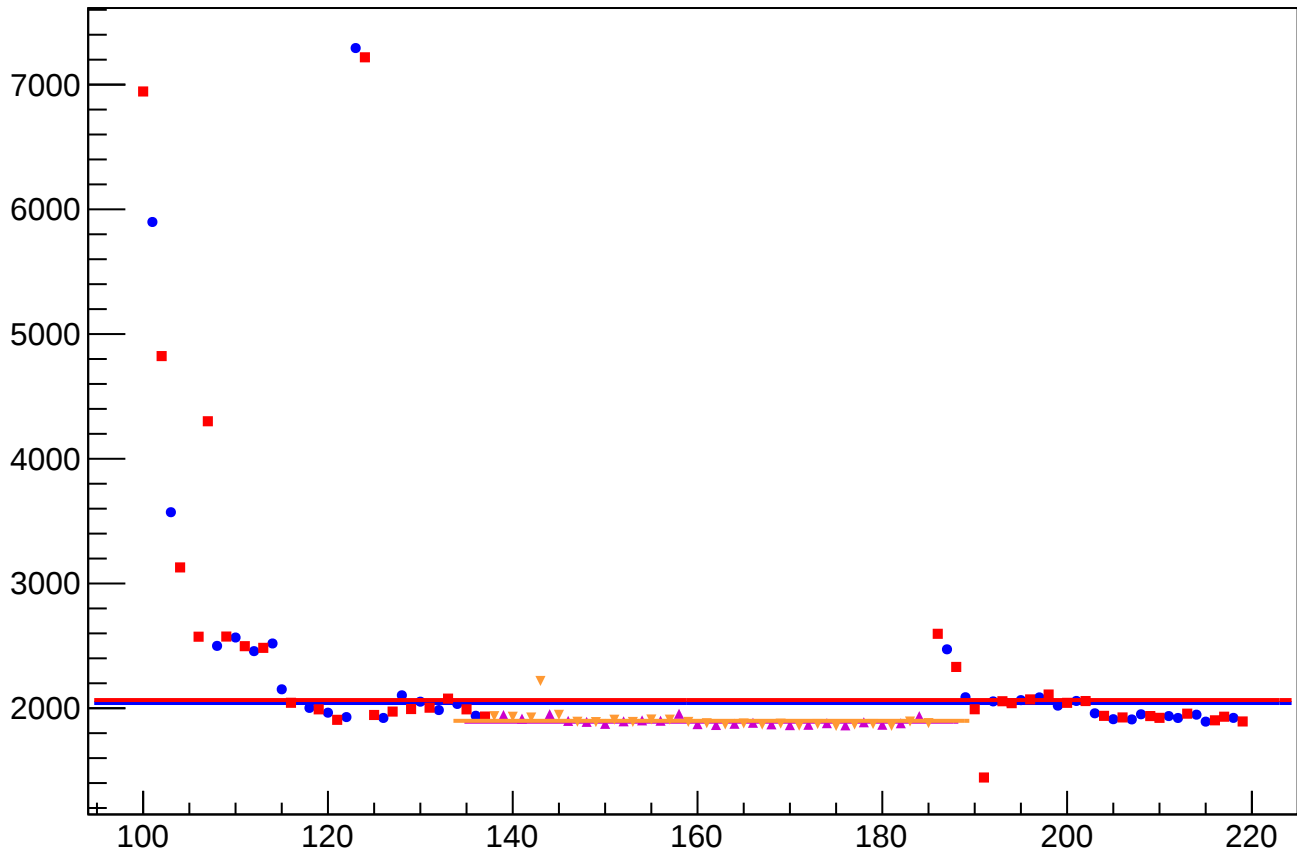
Right: -15.426+/-340.218 χ^2/NDF : 86.9/69

In: -455.300+/-331.715 χ^2/NDF :61.5/55

Out: -494.442+/-324.532 χ^2/NDF :93.8/61

All: -475.299+/-231.977 χ^2/NDF : 155.3/117

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2041.759+/-0.344 χ^2/NDF : 910616.8/32

Left Out: 1898.962+/-0.313 χ^2/NDF : 38680.4/24

Right Out: 2065.447+/-0.337 χ^2/NDF : 1157705.9/36

Left In: 1891.693+/-0.321 χ^2/NDF : 7420.7/22

Left: 1895.414+/-0.224 χ^2/NDF : 46363.6/47

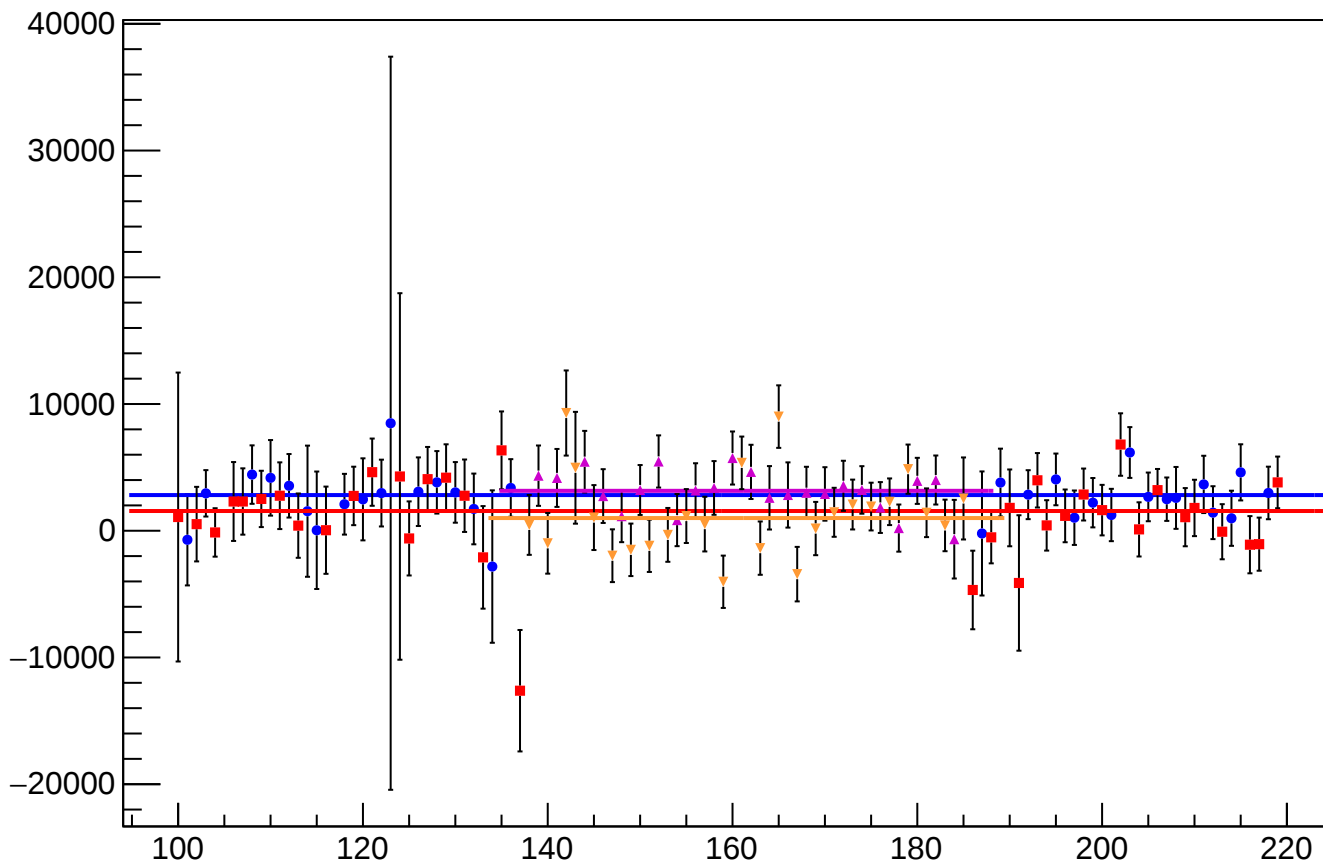
Right: 2053.835+/-0.241 χ^2/NDF : 2070745.7/69

In: 1961.627+/-0.235 χ^2/NDF : 1019895.4/55

Out: 1976.187+/-0.229 χ^2/NDF : 1327284.6/61

All: 1969.067+/-0.164 χ^2/NDF : 2349148.8/11

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2815.087 ± 420.120 $\chi^2/\text{NDF}: 10.7/32$

Left Out: 1001.263 ± 435.247 $\chi^2/\text{NDF}: 44.6/24$

Right Out: 1557.177 ± 408.156 $\chi^2/\text{NDF}: 37.2/36$

Left In: 3150.437 ± 441.145 $\chi^2/\text{NDF}: 11.8/22$

Left: 2061.387 ± 309.830 $\chi^2/\text{NDF}: 68.5/47$

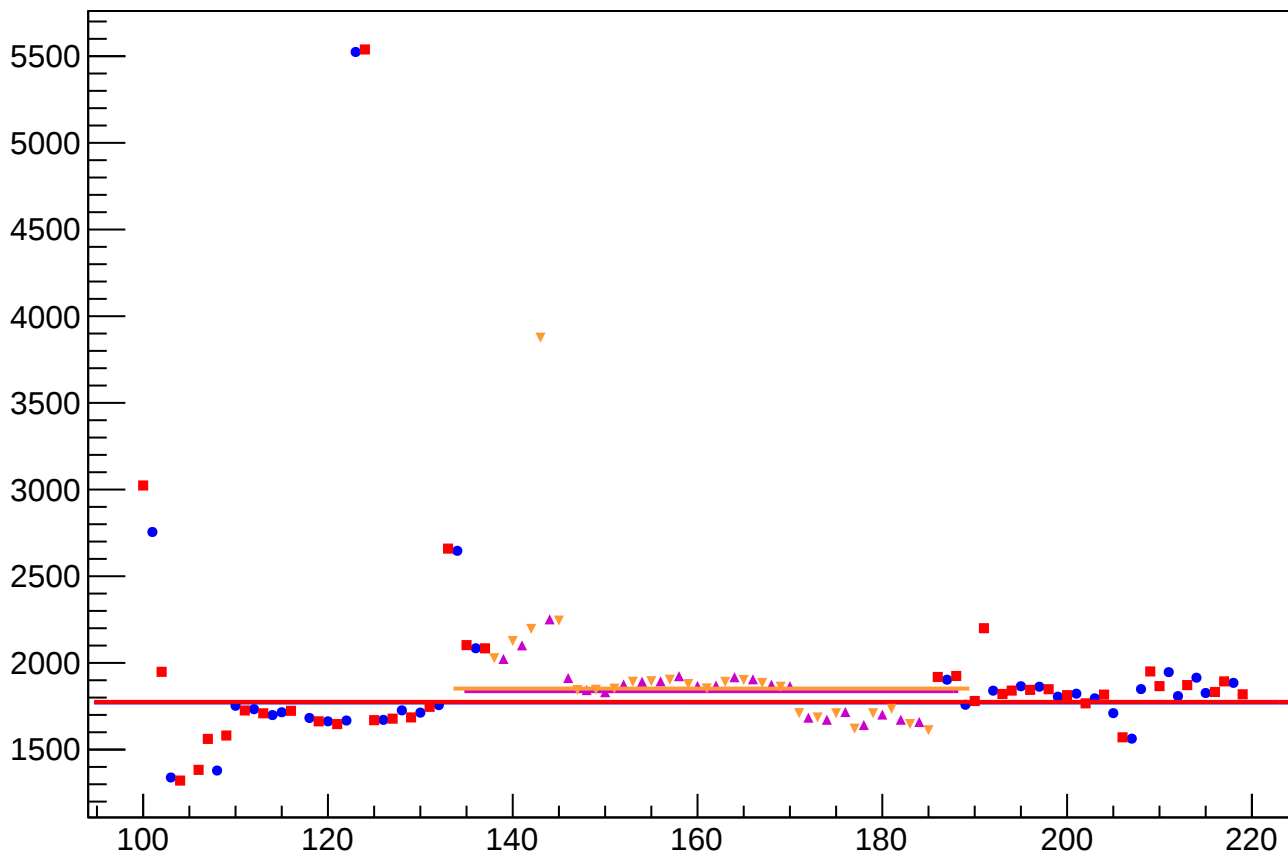
Right: 2167.966 ± 292.748 $\chi^2/\text{NDF}: 52.4/69$

In: 2974.580 ± 304.231 $\chi^2/\text{NDF}: 22.8/55$

Out: 1297.059 ± 297.727 $\chi^2/\text{NDF}: 82.7/61$

All: 2117.695 ± 212.787 $\chi^2/\text{NDF}: 121.0/117$

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1771.873+/-0.297 χ^2/NDF : 522958.4/32

Left Out: 1851.959+/-0.308 χ^2/NDF : 648954.2/24

Right Out: 1775.281+/-0.289 χ^2/NDF : 580333.4/36

Left In: 1837.151+/-0.312 χ^2/NDF : 200514.0/22

Left: 1844.654+/-0.219 χ^2/NDF : 850610.1/47

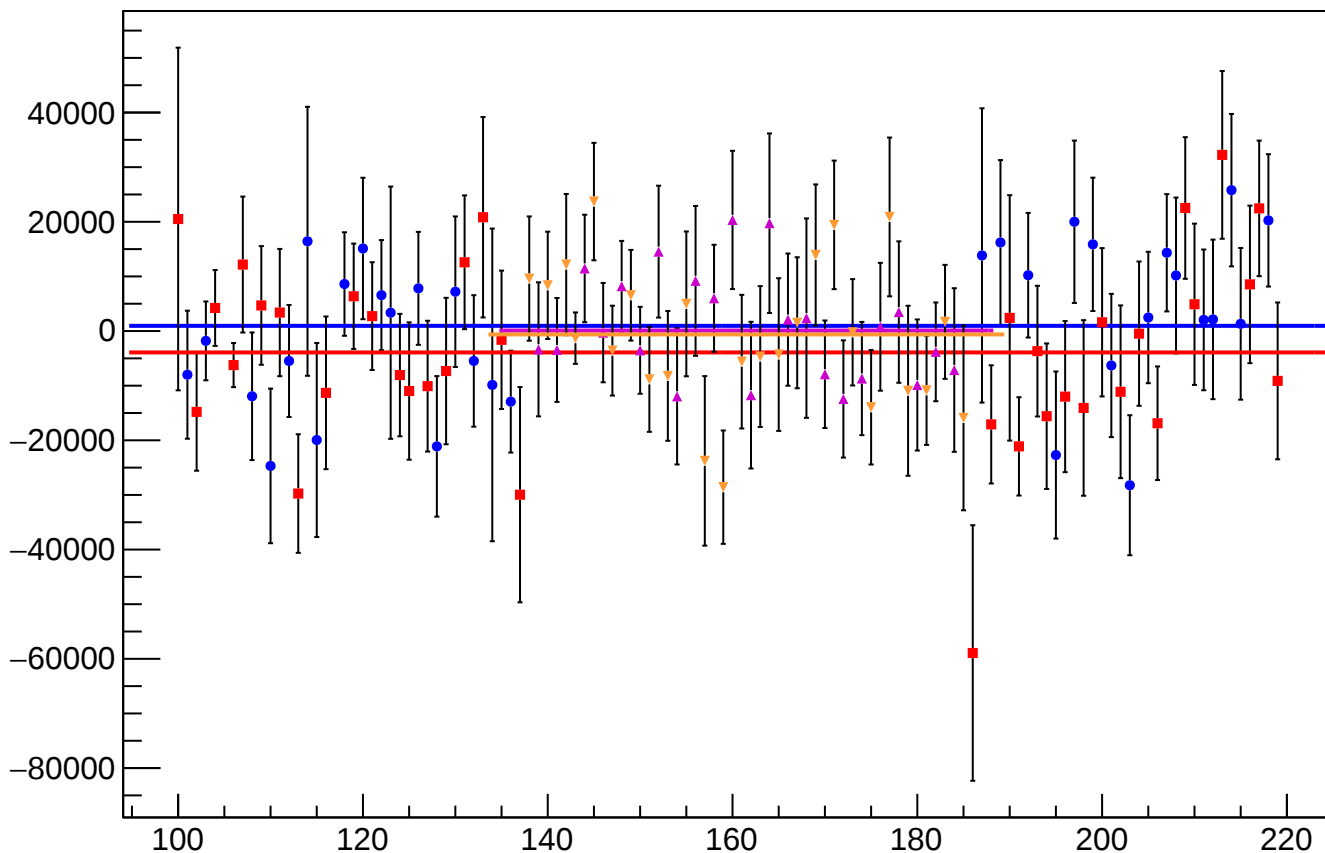
Right: 1773.626+/-0.207 χ^2/NDF : 1103359.5/69

In: 1802.919+/-0.215 χ^2/NDF : 746436.7/55

Out: 1811.159+/-0.211 χ^2/NDF : 1262315.3/61

All: 1807.128+/-0.150 χ^2/NDF : 2009501.4/11

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: 954.095 ± 2174.363 χ^2/NDF : 36.5/32

Left Out: -619.372 ± 2069.686 χ^2/NDF : 30.1/24

Right Out: -3914.218 ± 1838.366 χ^2/NDF : 49.5/36

Left In: 93.334 ± 2293.826 χ^2/NDF : 14.6/22

Left: -299.532 ± 1536.638 χ^2/NDF : 44.8/47

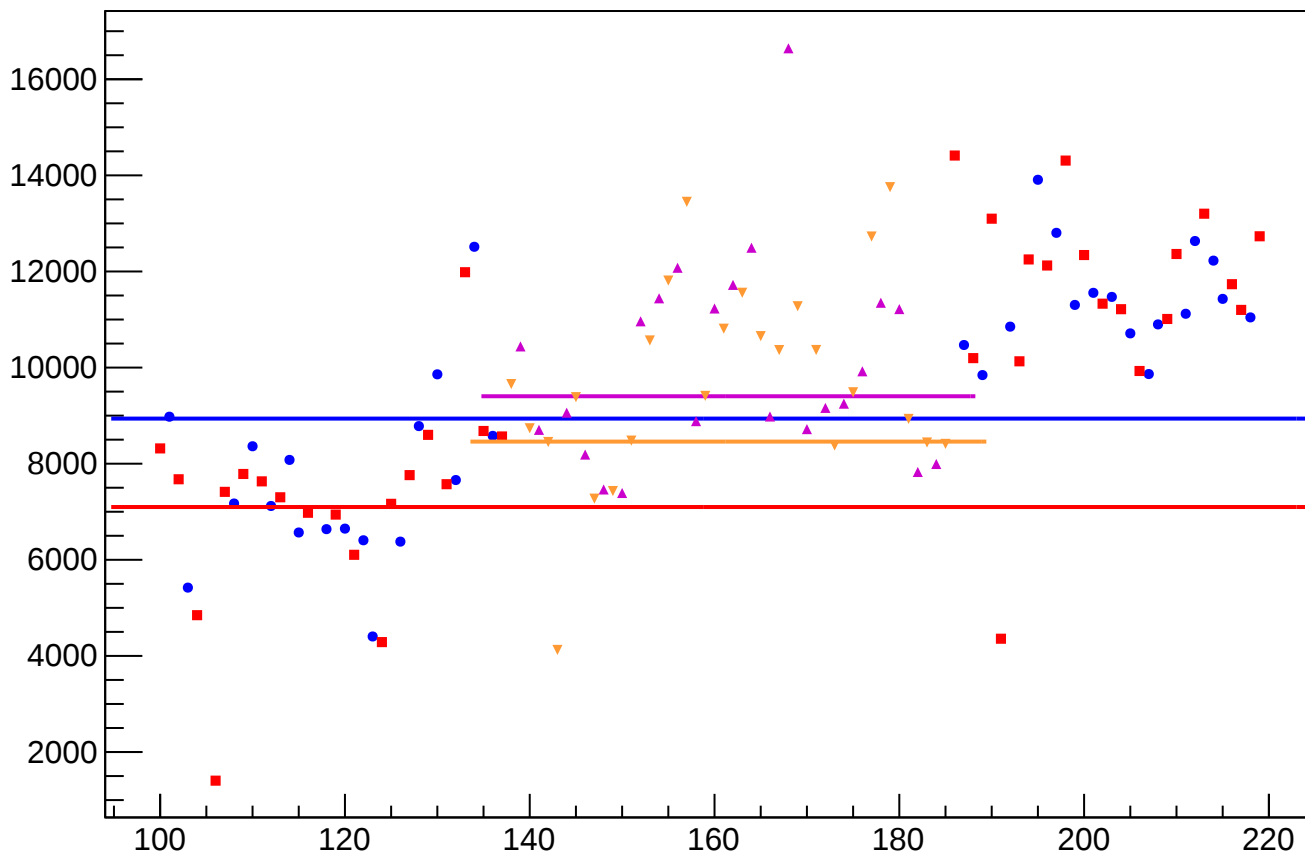
Right: -1884.860 ± 1403.854 χ^2/NDF : 88.8/69

In: 546.712 ± 1578.050 χ^2/NDF : 51.1/55

Out: -2461.138 ± 1374.459 χ^2/NDF : 81.0/61

All: -1163.639 ± 1036.445 χ^2/NDF : 134.2/111

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 8938.511+/-1.538 χ^2/NDF : 2364534.5/32

Left Out: 8459.960+/-1.463 χ^2/NDF : 3087200.5/24

Right Out: 7098.412+/-1.300 χ^2/NDF : 8638044.4/36

Left In: 9403.481+/-1.622 χ^2/NDF : 1142646.9/22

Left: 8883.382+/-1.087 χ^2/NDF : 4416376.4/47

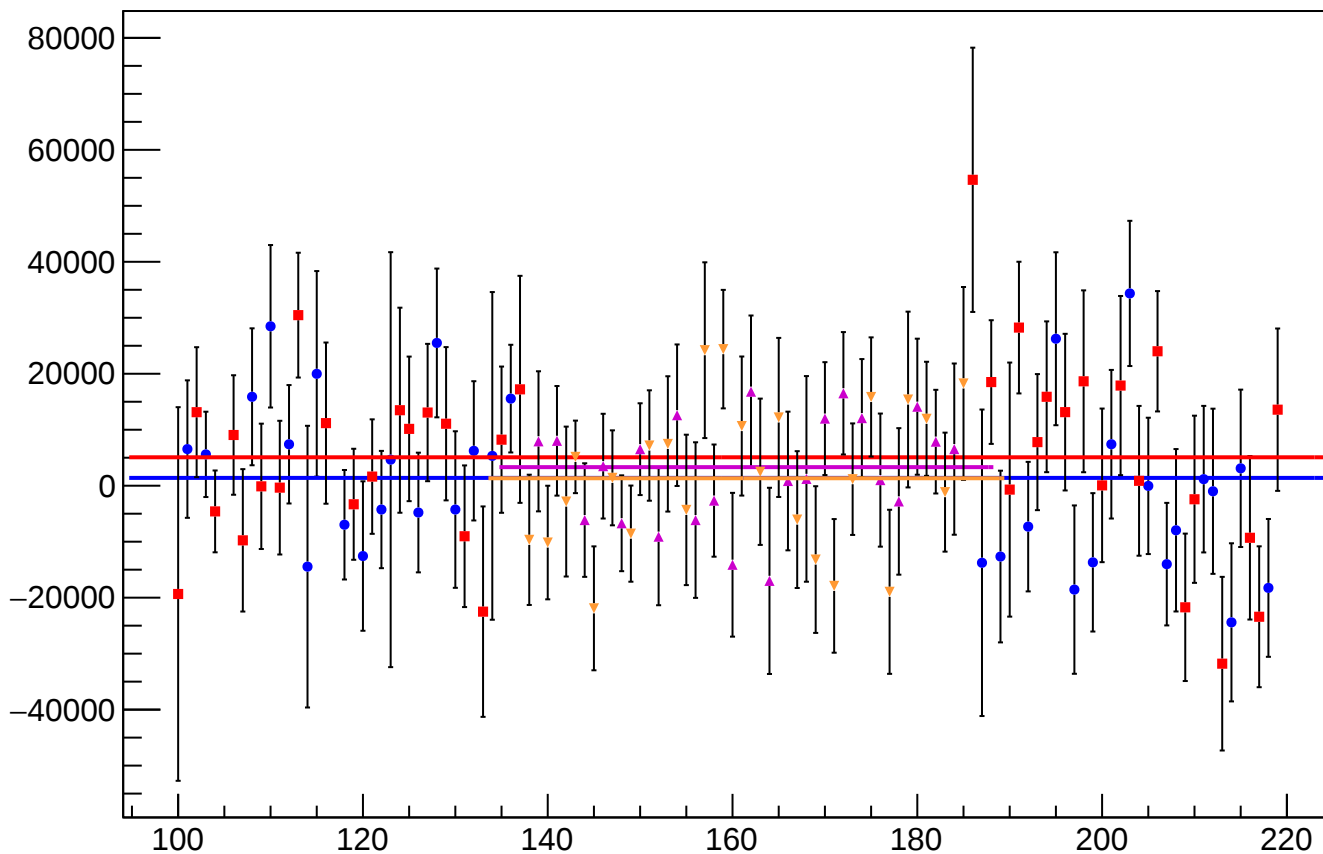
Right: 7865.458+/-0.993 χ^2/NDF : 11837851.9/69

In: 9158.574+/-1.116 χ^2/NDF : 3550466.2/55

Out: 7698.877+/-0.972 χ^2/NDF : 12209067.4/61

All: 8328.548+/-0.733 χ^2/NDF : 16732600.7/131

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 1395.970 ± 2239.361 χ^2/NDF : 37.9/32

Left Out: 1332.828 ± 2213.733 χ^2/NDF : 28.0/24

Right Out: 5076.924 ± 2122.961 χ^2/NDF : 47.7/36

Left In: 3316.909 ± 2344.543 χ^2/NDF : 13.7/22

Left: 2267.978 ± 1609.604 χ^2/NDF : 42.2/47

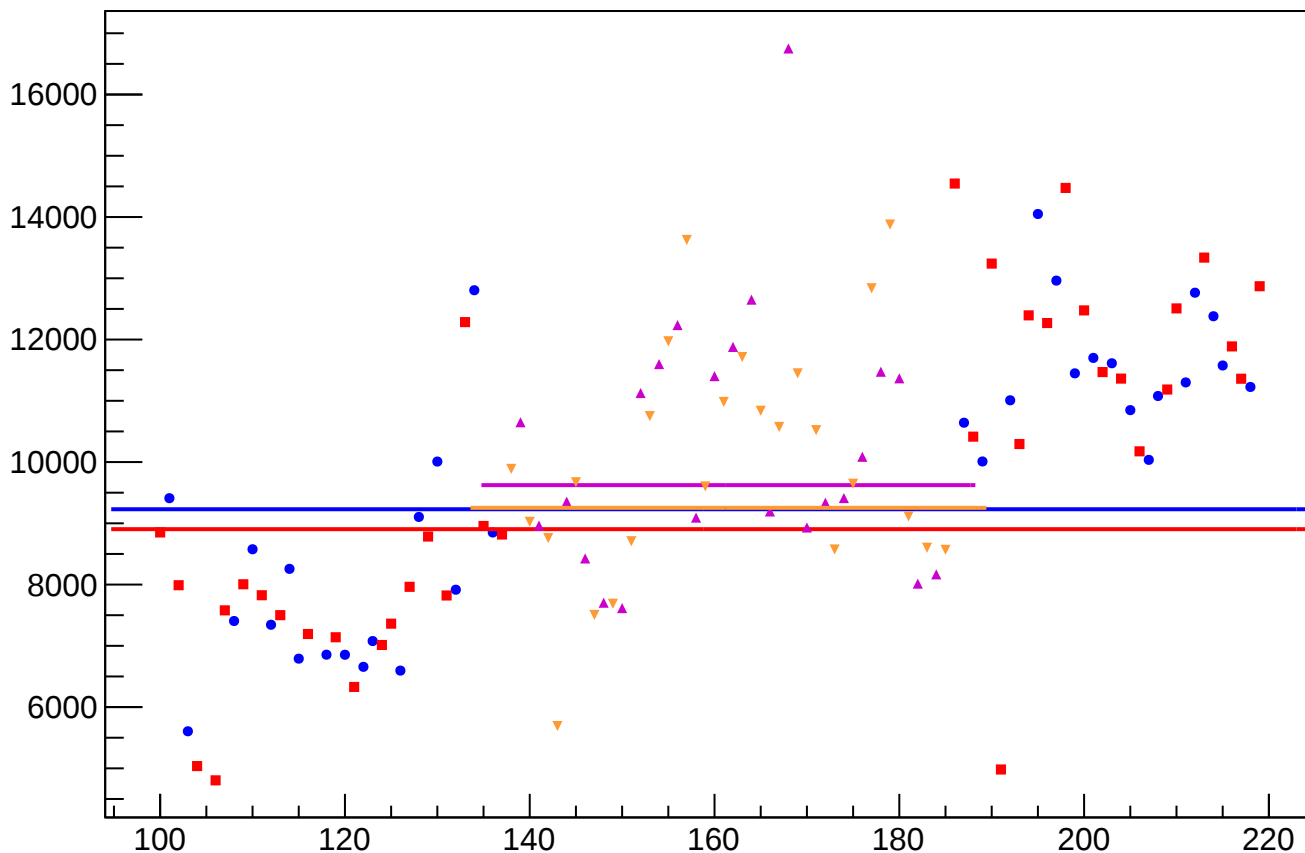
Right: 3334.595 ± 1540.667 χ^2/NDF : 87.0/69

In: 2312.385 ± 1619.375 χ^2/NDF : 52.0/55

Out: 3283.209 ± 1532.246 χ^2/NDF : 77.2/61

All: 2824.616 ± 1112.989 χ^2/NDF : 129.4/117

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 9229.693 $\pm$ 1.583 χ^2/NDF : 2123144.3/32

Left Out: 9252.712 $\pm$ 1.565 χ^2/NDF : 1597668.9/24

Right Out: 8904.569 $\pm$ 1.501 χ^2/NDF : 3200666.8/36

Left In: 9623.485 $\pm$ 1.658 χ^2/NDF : 1069924.0/22

Left: 9427.467 $\pm$ 1.138 χ^2/NDF : 2694036.4/47

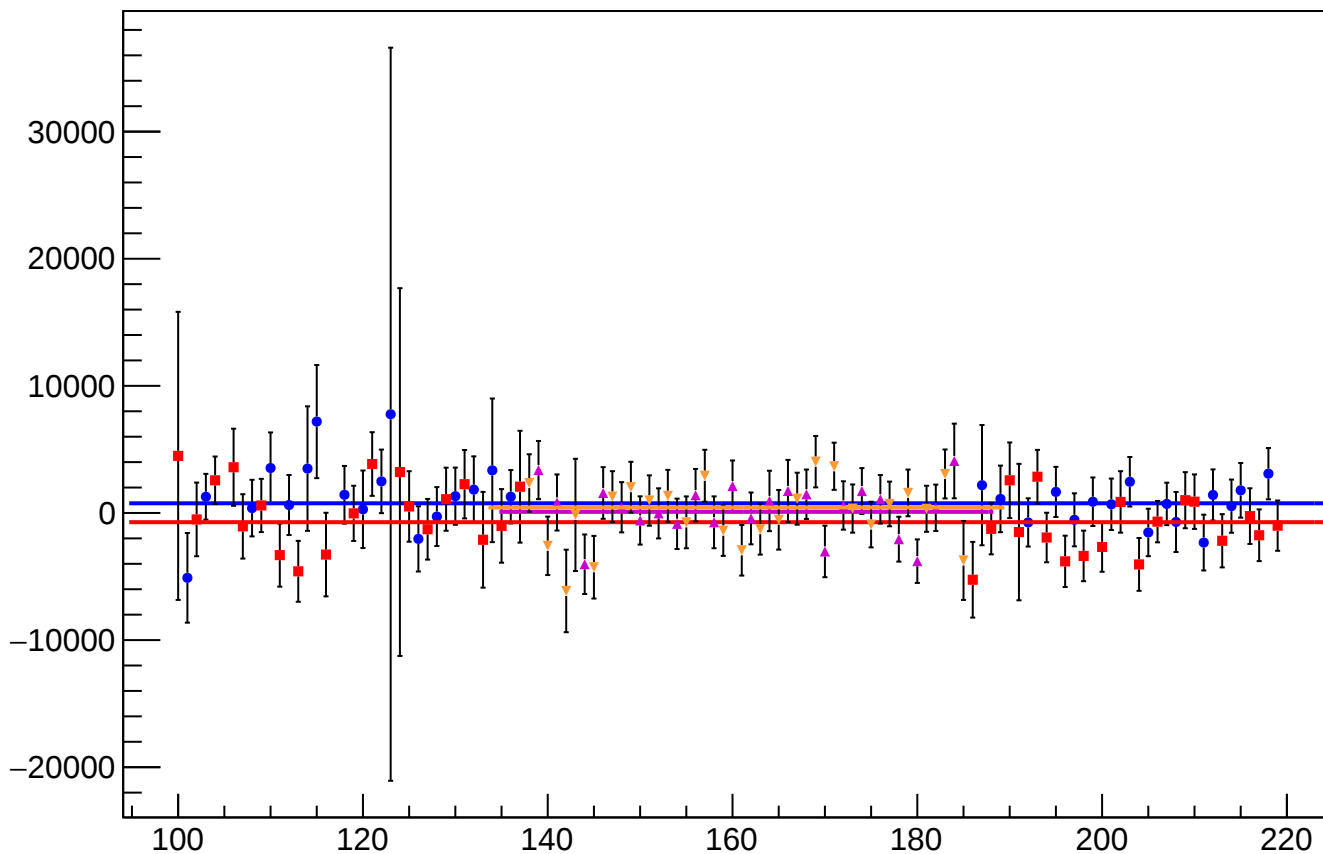
Right: 9058.450 $\pm$ 1.089 χ^2/NDF : 5346016.4/69

In: 9417.555 $\pm$ 1.145 χ^2/NDF : 3222573.8/55

Out: 9071.341 $\pm$ 1.083 χ^2/NDF : 4824105.2/61

All: 9234.877 $\pm$ 0.787 χ^2/NDF : 8094915.1/11

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 761.540 ± 404.887 $\chi^2/\text{NDF}: 16.4/32$

Left Out: 429.447 ± 416.378 $\chi^2/\text{NDF}: 28.7/24$

Right Out: -724.905 ± 393.647 $\chi^2/\text{NDF}: 33.1/36$

Left In: 88.373 ± 421.957 $\chi^2/\text{NDF}: 21.0/22$

Left: 261.180 ± 296.376 $\chi^2/\text{NDF}: 50.0/47$

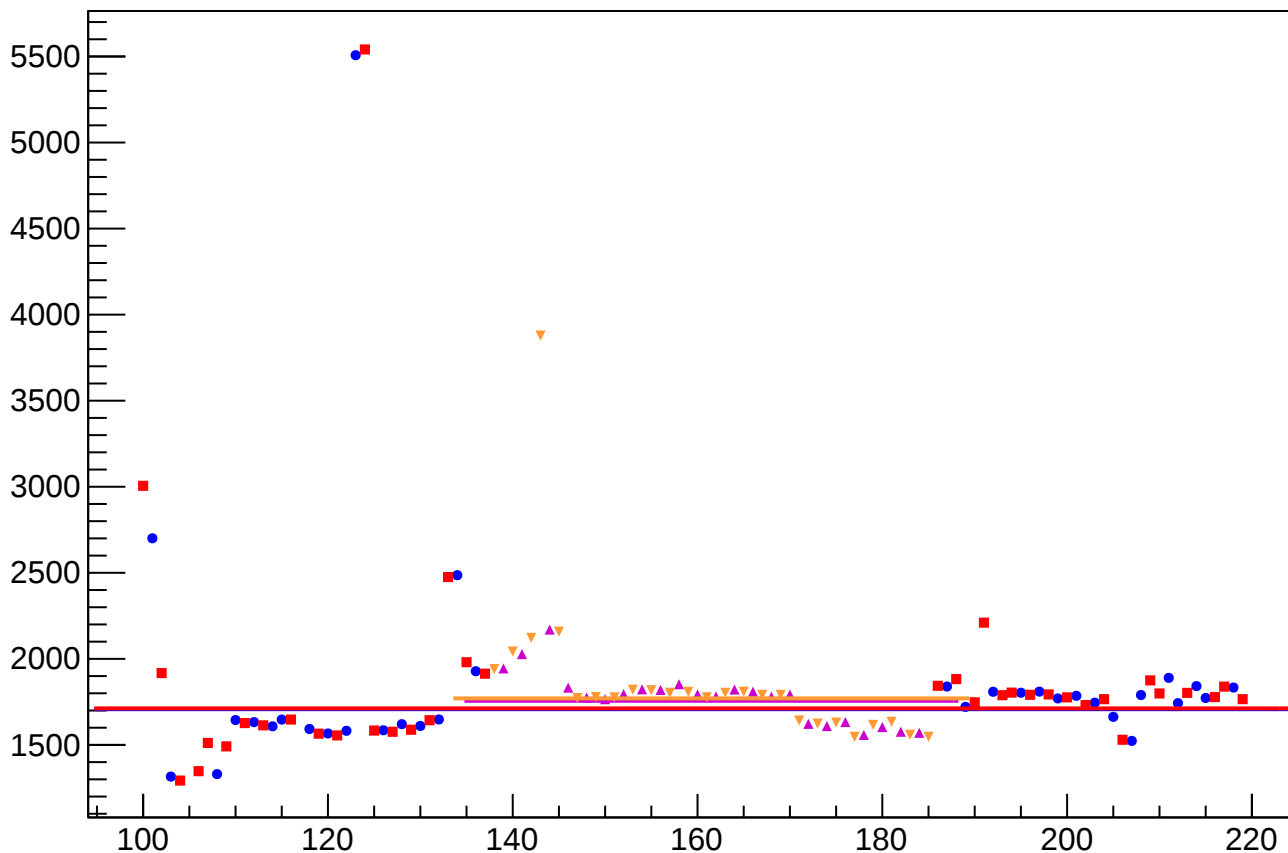
Right: -2.603 ± 282.240 $\chi^2/\text{NDF}: 56.5/69$

In: 438.848 ± 292.147 $\chi^2/\text{NDF}: 38.7/55$

Out: -180.098 ± 286.049 $\chi^2/\text{NDF}: 65.9/61$

All: 122.848 ± 204.389 $\chi^2/\text{NDF}: 106.9/117$

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1707.658 $\pm$ 0.286 χ^2 /NDF: 518918.5/32

Left Out: 1770.384 $\pm$ 0.294 χ^2 /NDF: 699536.9/24

Right Out: 1712.019 $\pm$ 0.278 χ^2 /NDF: 591397.0/36

Left In: 1756.623 $\pm$ 0.298 χ^2 /NDF: 223077.6/22

Left: 1763.595 $\pm$ 0.210 χ^2 /NDF: 923692.1/47

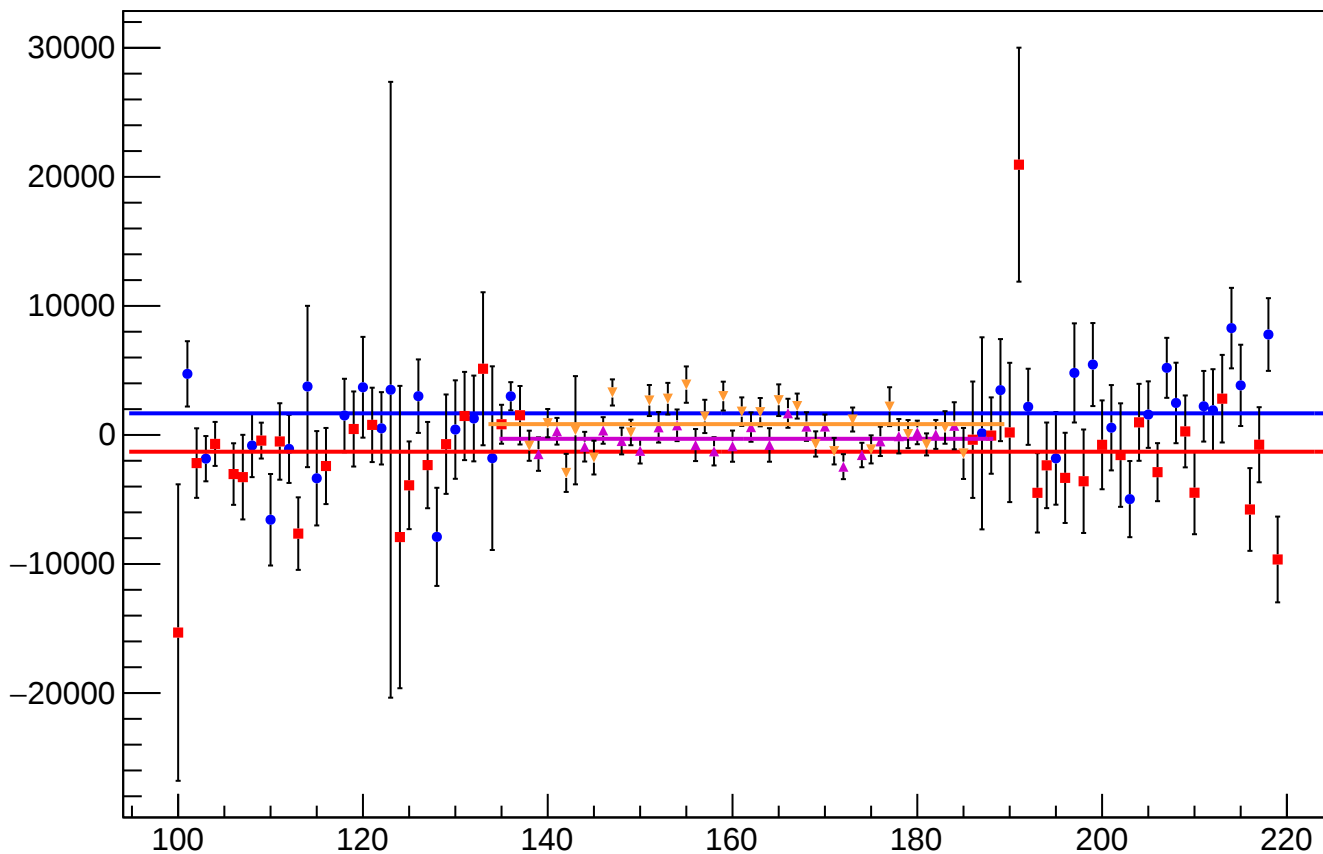
Right: 1709.900 $\pm$ 0.200 χ^2 /NDF: 1110434.7/69

In: 1731.130 $\pm$ 0.207 χ^2 /NDF: 756017.6/55

Out: 1739.565 $\pm$ 0.202 χ^2 /NDF: 1311684.5/61

All: 1735.436 $\pm$ 0.145 χ^2 /NDF: 2068553.2/11

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1675.442 $\pm$ 491.311 χ^2 /NDF: 44.4/32

Left Out: 839.344 $\pm$ 230.465 χ^2 /NDF: 54.4/24

Right Out: -1298.694 $\pm$ 471.734 χ^2 /NDF: 35.9/36

Left In: -298.801 $\pm$ 231.400 χ^2 /NDF: 18.3/22

Left: 272.574 $\pm$ 163.293 χ^2 /NDF: 84.9/47

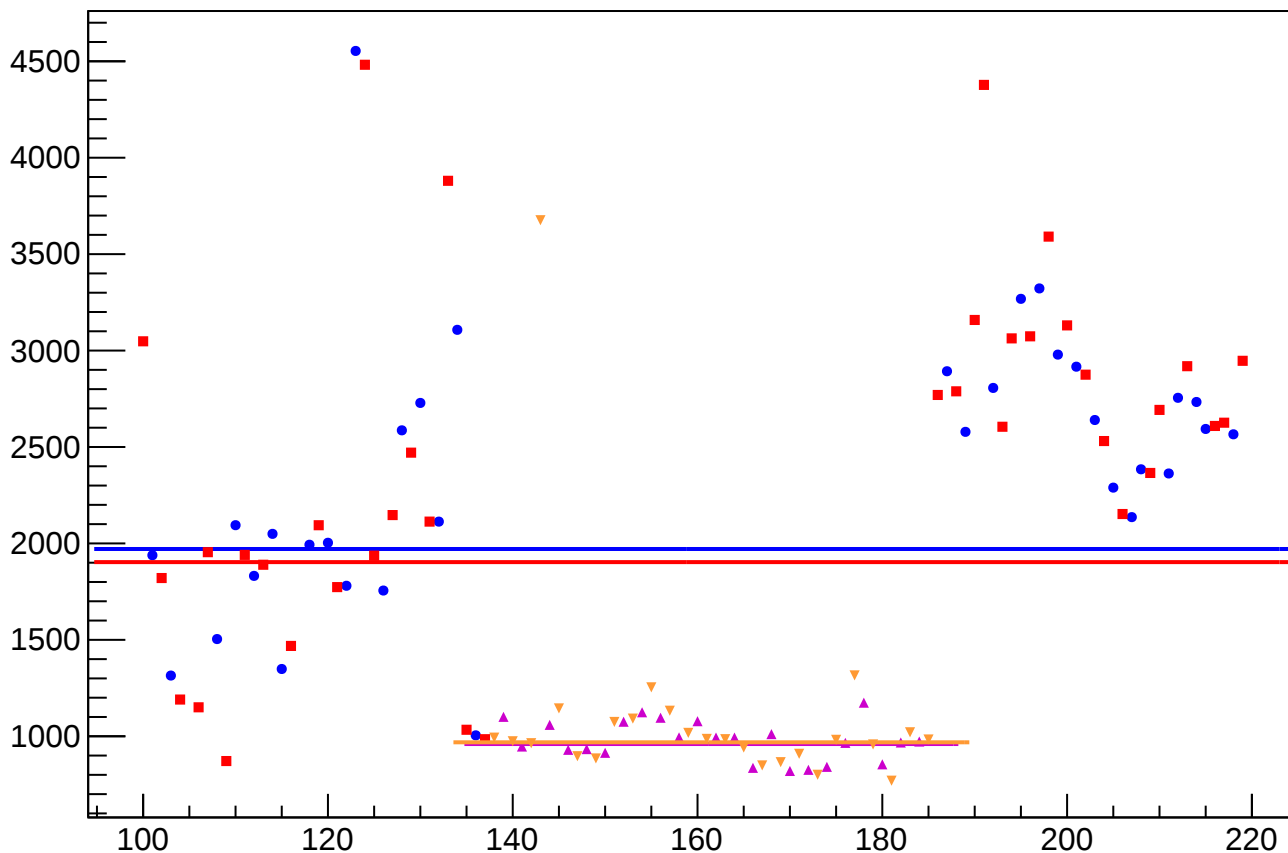
Right: 127.940 $\pm$ 340.277 χ^2 /NDF: 99.3/69

In: 59.628 $\pm$ 209.343 χ^2 /NDF: 75.9/55

Out: 427.367 $\pm$ 207.074 χ^2 /NDF: 106.9/61

All: 245.501 $\pm$ 147.219 χ^2 /NDF: 184.4/117

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1971.120+/-0.347 χ^2/NDF : 3945686.1/32

Left Out: 968.712+/-0.163 χ^2/NDF : 1393696.6/24

Right Out: 1903.057+/-0.334 χ^2/NDF : 5796831.4/36

Left In: 959.805+/-0.164 χ^2/NDF : 371210.5/22

Left: 964.276+/-0.115 χ^2/NDF : 1766394.7/47

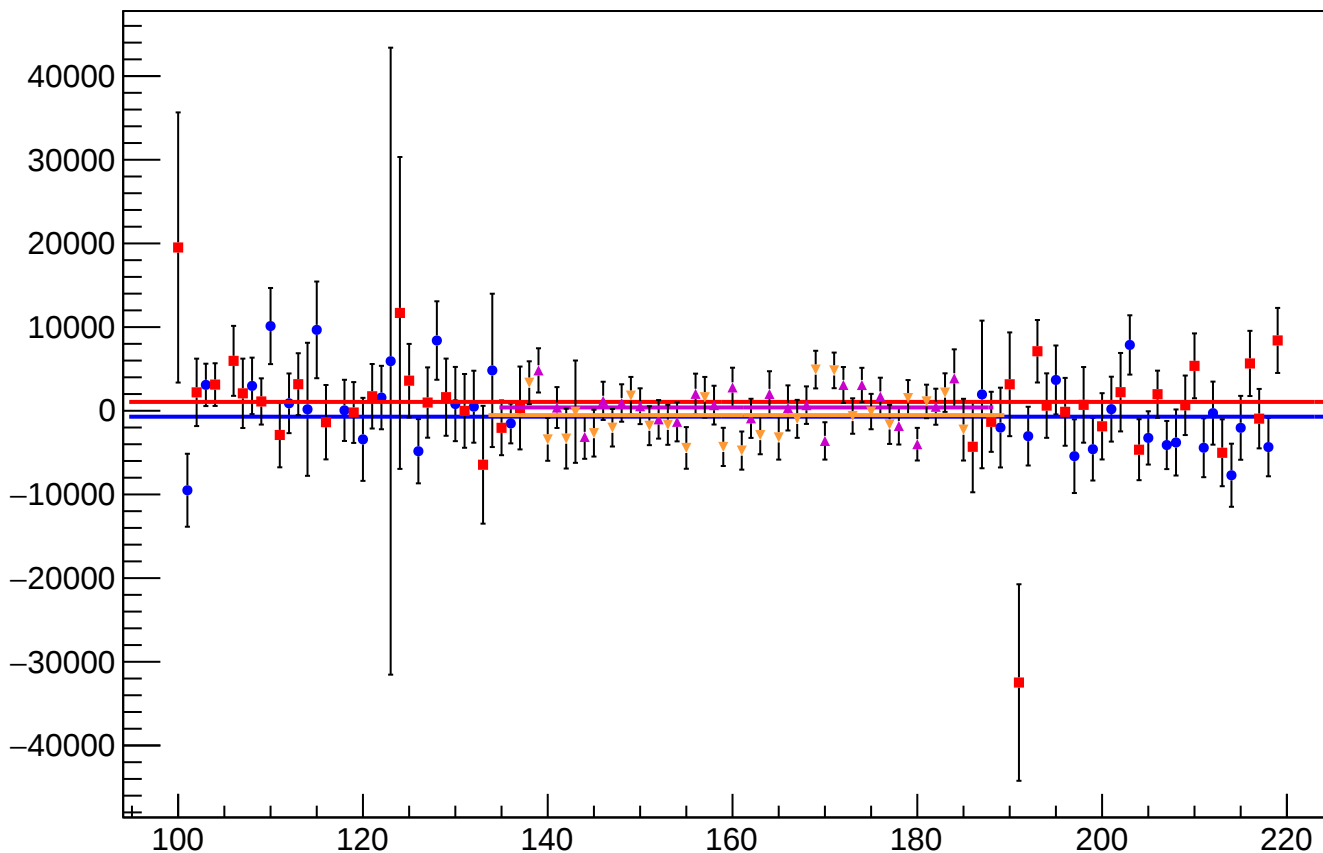
Right: 1935.705+/-0.241 χ^2/NDF : 9762488.7/69

In: 1143.412+/-0.148 χ^2/NDF : 11252437.0/55

Out: 1148.750+/-0.146 χ^2/NDF : 13524717.4/61

All: 1146.110+/-0.104 χ^2/NDF : 24777811.7/121

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: -707.991 ± 676.819 $\chi^2/\text{NDF}: 41.2/32$

Left Out: -517.719 ± 481.486 $\chi^2/\text{NDF}: 34.0/24$

Right Out: 1059.604 ± 661.247 $\chi^2/\text{NDF}: 32.5/36$

Left In: 397.398 ± 485.048 $\chi^2/\text{NDF}: 21.8/22$

Left: -63.533 ± 341.714 $\chi^2/\text{NDF}: 57.7/47$

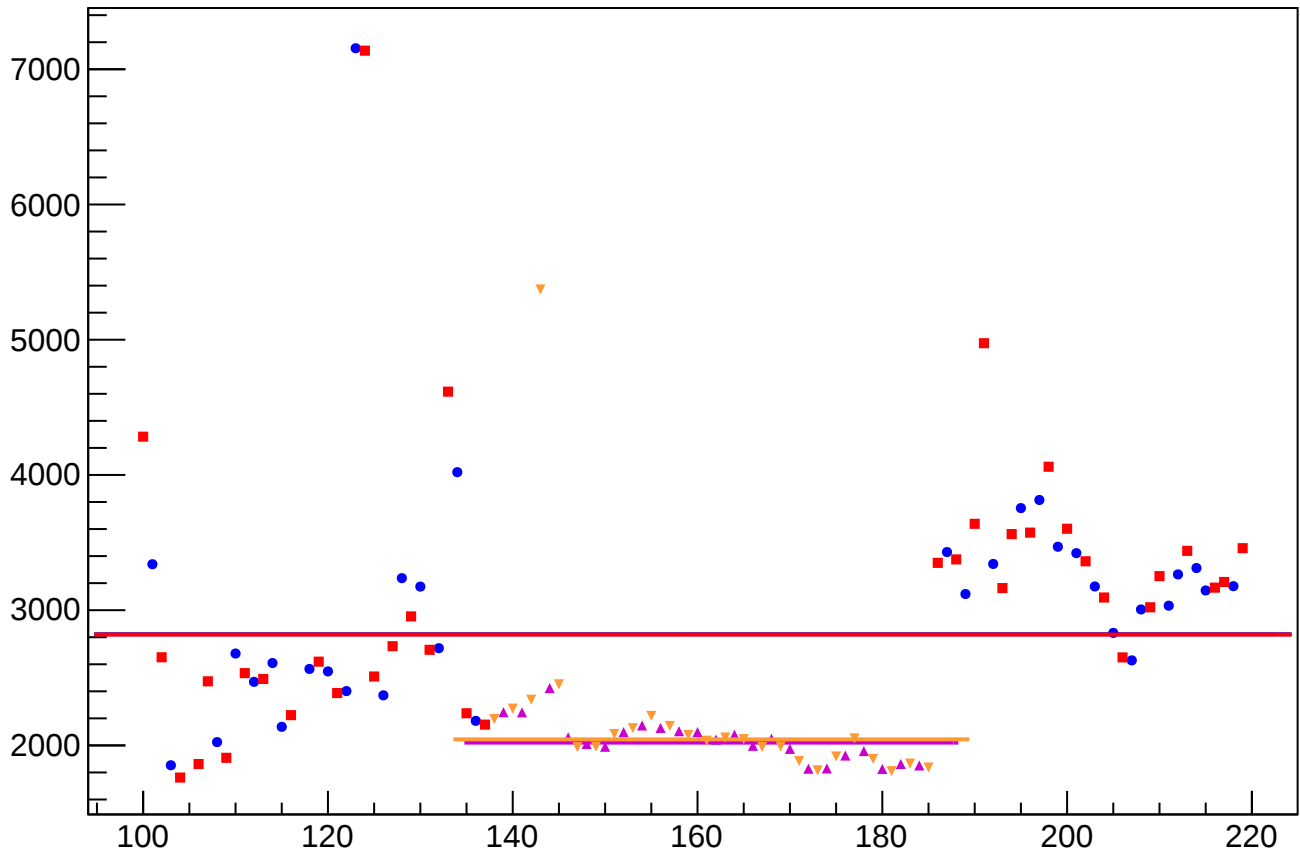
Right: 196.375 ± 472.982 $\chi^2/\text{NDF}: 77.2/69$

In: 22.315 ± 394.257 $\chi^2/\text{NDF}: 64.8/55$

Out: 28.809 ± 389.233 $\chi^2/\text{NDF}: 70.3/61$

All: 25.604 ± 276.988 $\chi^2/\text{NDF}: 135.1/117$

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2821.880+/-0.479 χ^2/NDF : 1297023.3/32

Left Out: 2044.722+/-0.340 χ^2/NDF : 788703.5/24

Right Out: 2819.832+/-0.468 χ^2/NDF : 1921312.8/36

Left In: 2020.802+/-0.343 χ^2/NDF : 173502.0/22

Left: 2032.850+/-0.242 χ^2/NDF : 964655.5/47

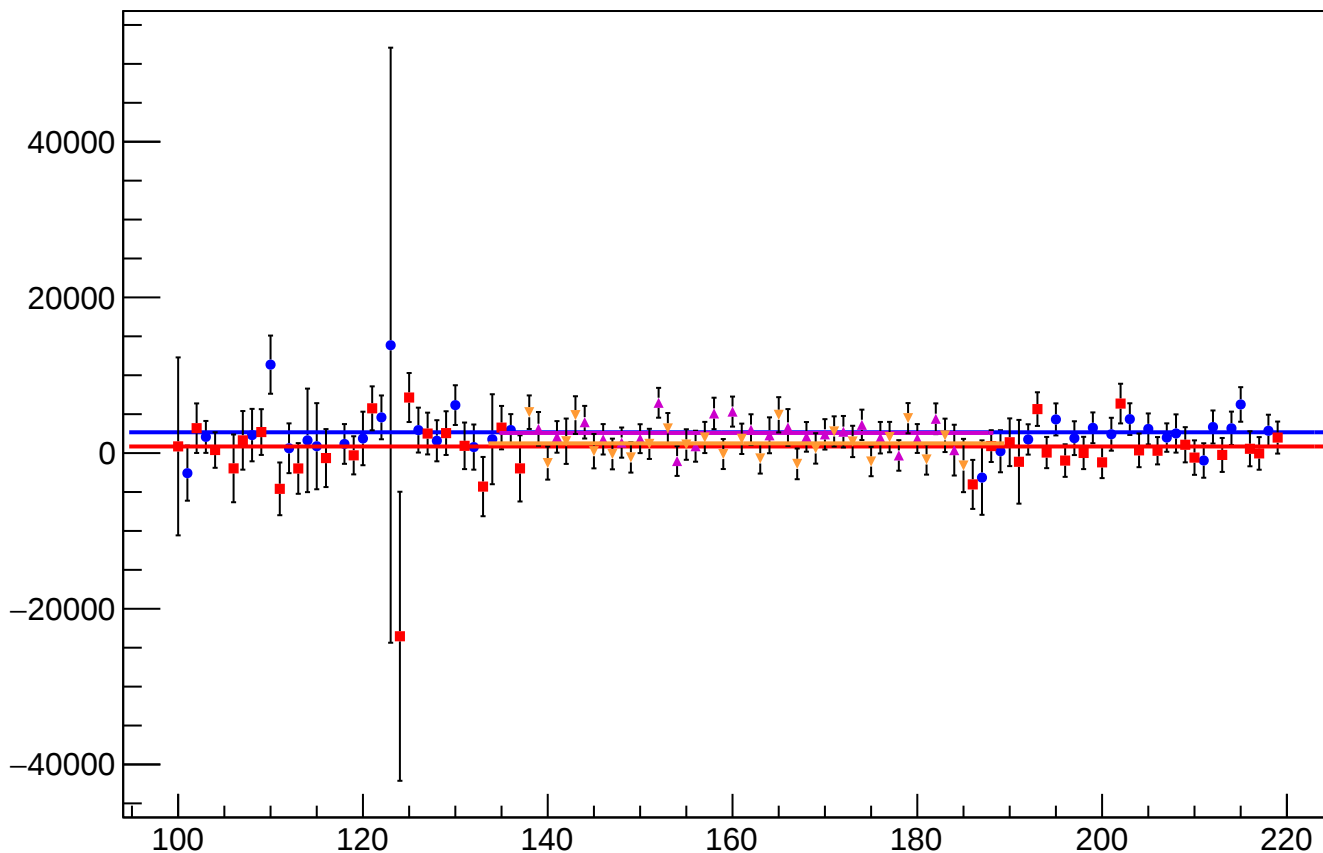
Right: 2820.832+/-0.334 χ^2/NDF : 3218345.4/69

In: 2292.626+/-0.279 χ^2/NDF : 3321603.7/55

Out: 2313.292+/-0.275 χ^2/NDF : 4505920.1/61

All: 2303.092+/-0.196 χ^2/NDF : 7830306.6/11

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2673.753 $\pm$ 437.934 χ^2 /NDF: 21.4/32

Left Out: 1249.917 $\pm$ 412.486 χ^2 /NDF:23.0/24

Right Out: 849.302 $\pm$ 429.103 χ^2 /NDF: 33.2/36

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

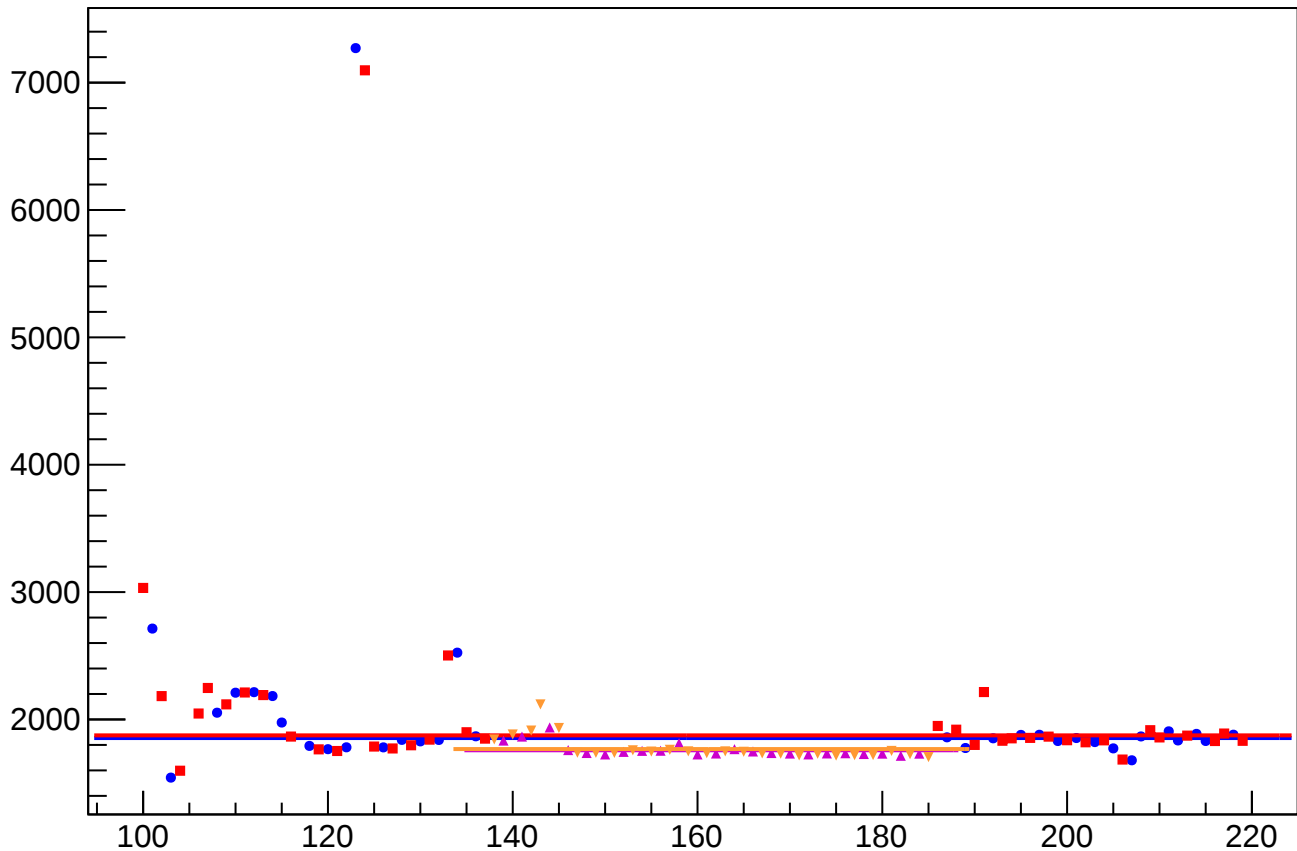
Right: 1742.947 $\pm$ 306.496 χ^2 /NDF: 63.5/69

In: 2628.687 $\pm$ 303.693 χ^2 /NDF:38.9/55

Out: 1057.516 $\pm$ 297.373 χ^2 /NDF:56.7/61

All: 1826.582 $\pm$ 212.474 χ^2 /NDF: 109.3/117

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.086+/-0.310 χ^2/NDF : 319985.6/32

Left Out: 1767.517+/-0.292 χ^2/NDF : 77674.7/24

Right Out: 1875.087+/-0.303 χ^2/NDF : 411623.9/36

Left In: 1758.076+/-0.298 χ^2/NDF : 29806.0/22

Left: 1762.899+/-0.208 χ^2/NDF : 107993.2/47

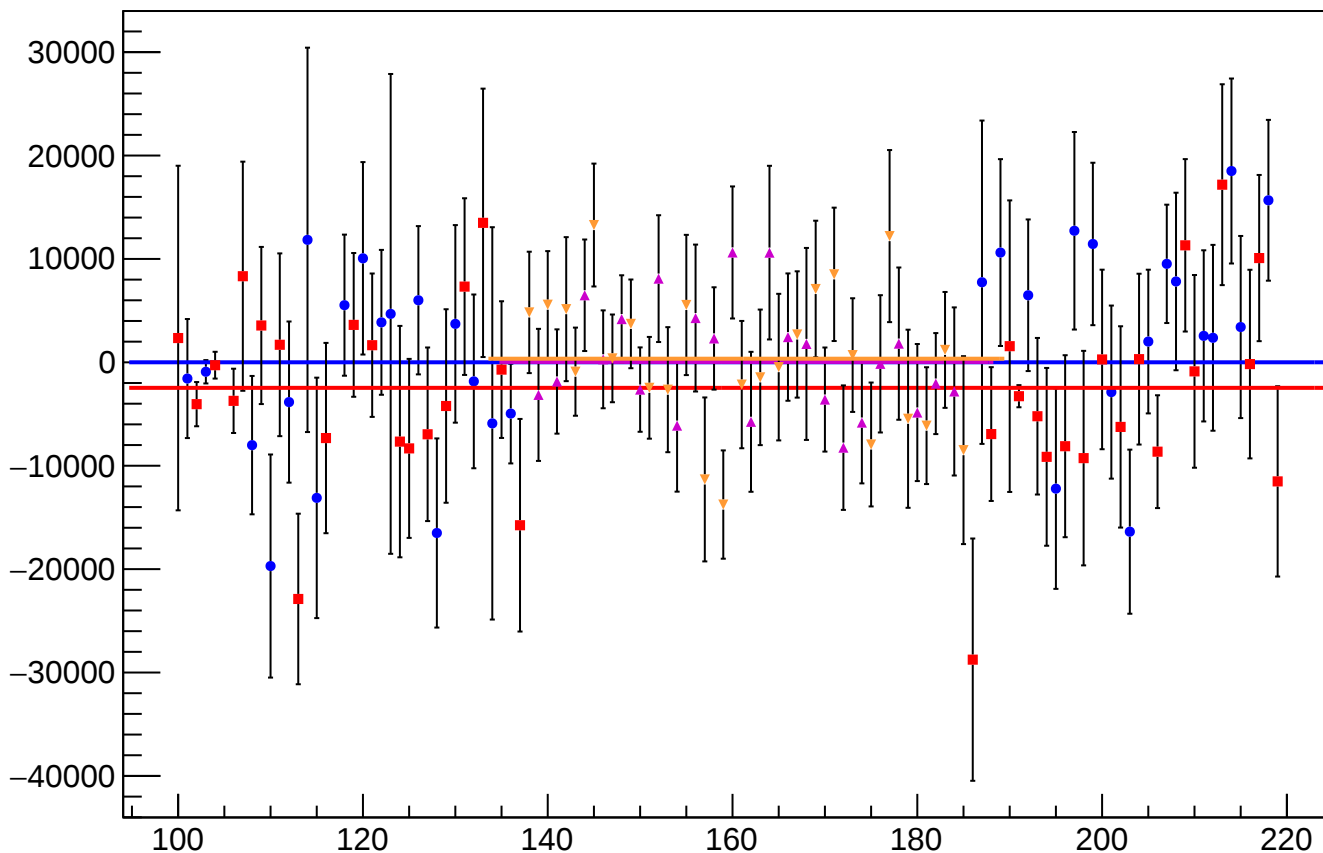
Right: 1864.806+/-0.217 χ^2/NDF : 733957.2/69

In: 1804.247+/-0.215 χ^2/NDF : 399691.0/55

Out: 1819.207+/-0.210 χ^2/NDF : 554658.9/61

All: 1811.886+/-0.150 χ^2/NDF : 956828.2/117

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



Right In: 4.046 ± 888.484 χ^2/NDF : 39.5/32

Left Out: 351.227 ± 1170.051 χ^2/NDF : 27.8/24

Right Out: -2467.393 ± 668.539 χ^2/NDF : 38.2/36

Left In: 40.618 ± 1207.491 χ^2/NDF : 16.0/22

Left: 200.813 ± 840.276 χ^2/NDF : 43.9/47

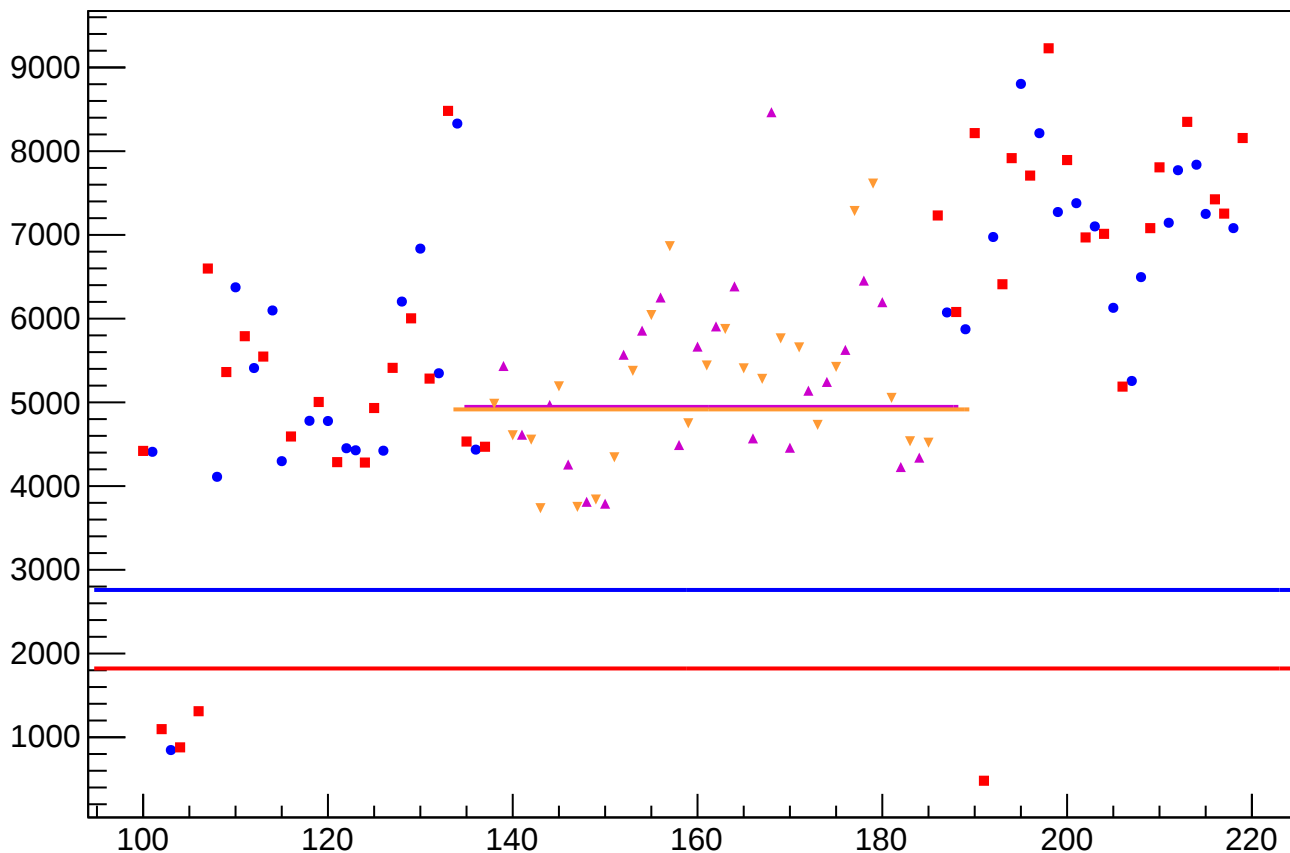
Right: -1573.960 ± 534.202 χ^2/NDF : 82.7/69

In: 16.892 ± 715.632 χ^2/NDF : 55.5/55

Out: -1773.676 ± 580.467 χ^2/NDF : 70.5/61

All: -1063.114 ± 450.812 χ^2/NDF : 129.8/117

asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2759.428+/-0.628

χ^2/NDF : 16779310.0/32

Left: 4930.370+/-0.594

χ^2/NDF : 2375402.9/47

Left Out: 4915.865+/-0.827

χ^2/NDF : 1186479.7/24

Right: 2160.646+/-0.378

χ^2/NDF : 41236098.7/69

Right Out: 1821.629+/-0.473

χ^2/NDF : 23034105.3/36

In: 3527.388+/-0.506

χ^2/NDF : 22221593.5/55

Out: 2583.180+/-0.410

χ^2/NDF : 34765172.5/61

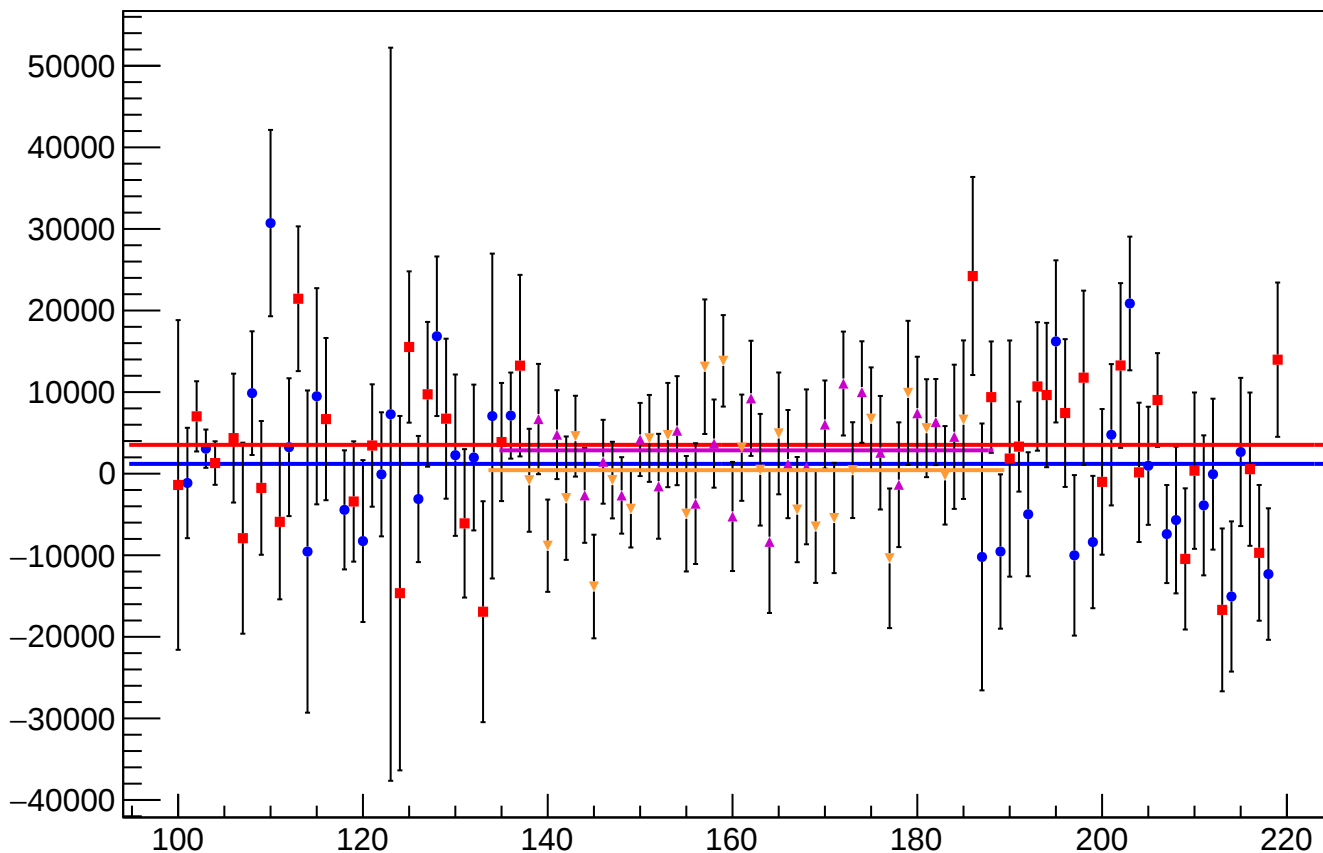
Left In: 4945.817+/-0.854

χ^2/NDF : 1188288.6/22

All: 2957.876+/-0.319

χ^2/NDF : 59086774.2/100

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 1199.896 $\pm$ 1284.668 χ^2 /NDF: 37.6/32

Left Out: 430.860 $\pm$ 1258.273 χ^2 /NDF: 27.1/24

Right Out: 3534.352 $\pm$ 1249.957 χ^2 /NDF: 34.7/36

Left In: 2860.252 $\pm$ 1292.328 χ^2 /NDF: 12.9/22

Left: 1613.125 $\pm$ 901.533 χ^2 /NDF: 41.8/47

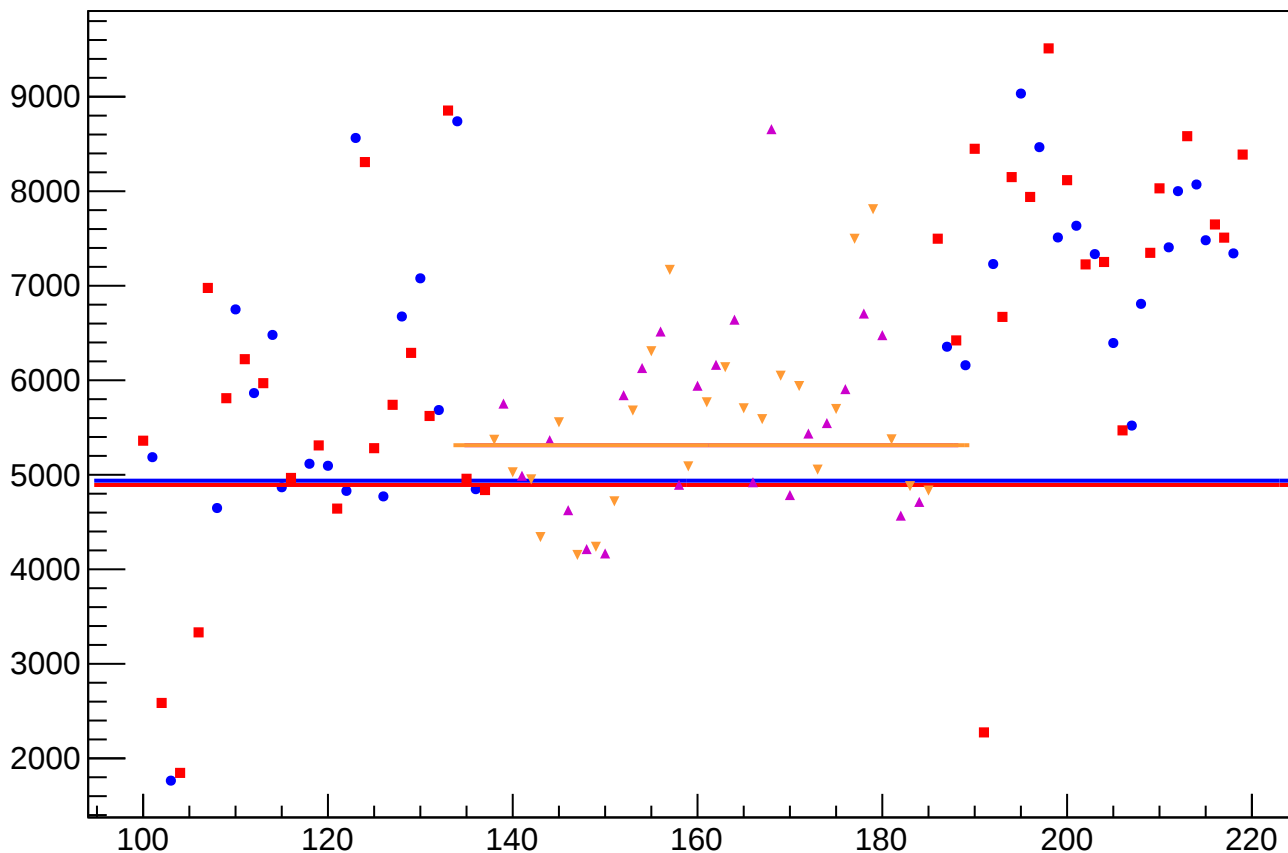
Right: 2399.087 $\pm$ 895.873 χ^2 /NDF: 73.9/69

In: 2025.138 $\pm$ 911.094 χ^2 /NDF: 51.3/55

Out: 1992.896 $\pm$ 886.779 χ^2 /NDF: 64.8/61

All: 2008.581 $\pm$ 635.469 χ^2 /NDF: 116.1/117

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 4937.797 $\pm$ 0.908 χ^2 /NDF: 6547214.8/32

Left Out: 5313.008 $\pm$ 0.890 χ^2 /NDF: 894369.8/24

Right Out: 4892.305 $\pm$ 0.880 χ^2 /NDF: 7318674.4/36

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

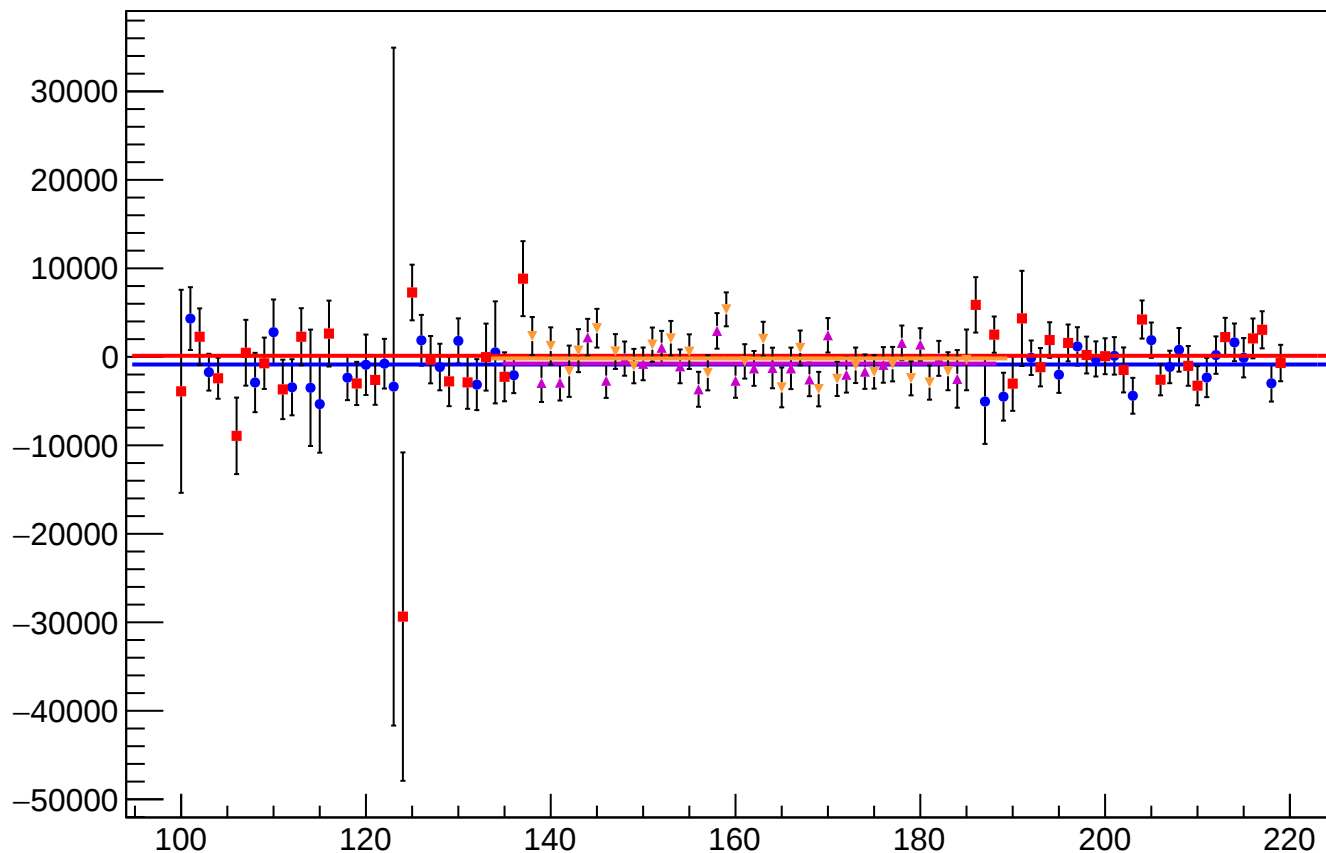
Right: 4914.336 $\pm$ 0.632 χ^2 /NDF: 13867182.6/69

In: 5124.214 $\pm$ 0.644 χ^2 /NDF: 7589345.8/55

Out: 5100.410 $\pm$ 0.626 χ^2 /NDF: 8326027.5/61

All: 5111.966 $\pm$ 0.449 χ^2 /NDF: 15916075.8/122

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -864.973+/-437.590 χ^2 /NDF: 21.5/32

Left Out: -179.794+/-410.976 χ^2 /NDF:29.3/24

Right Out: 118.746+/-428.741 χ^2 /NDF: 46.6/36

Left In: -759.753+/-419.905 χ^2 /NDF:20.3/22

Left: -463.542+/-293.710 χ^2 /NDF: 50.5/47

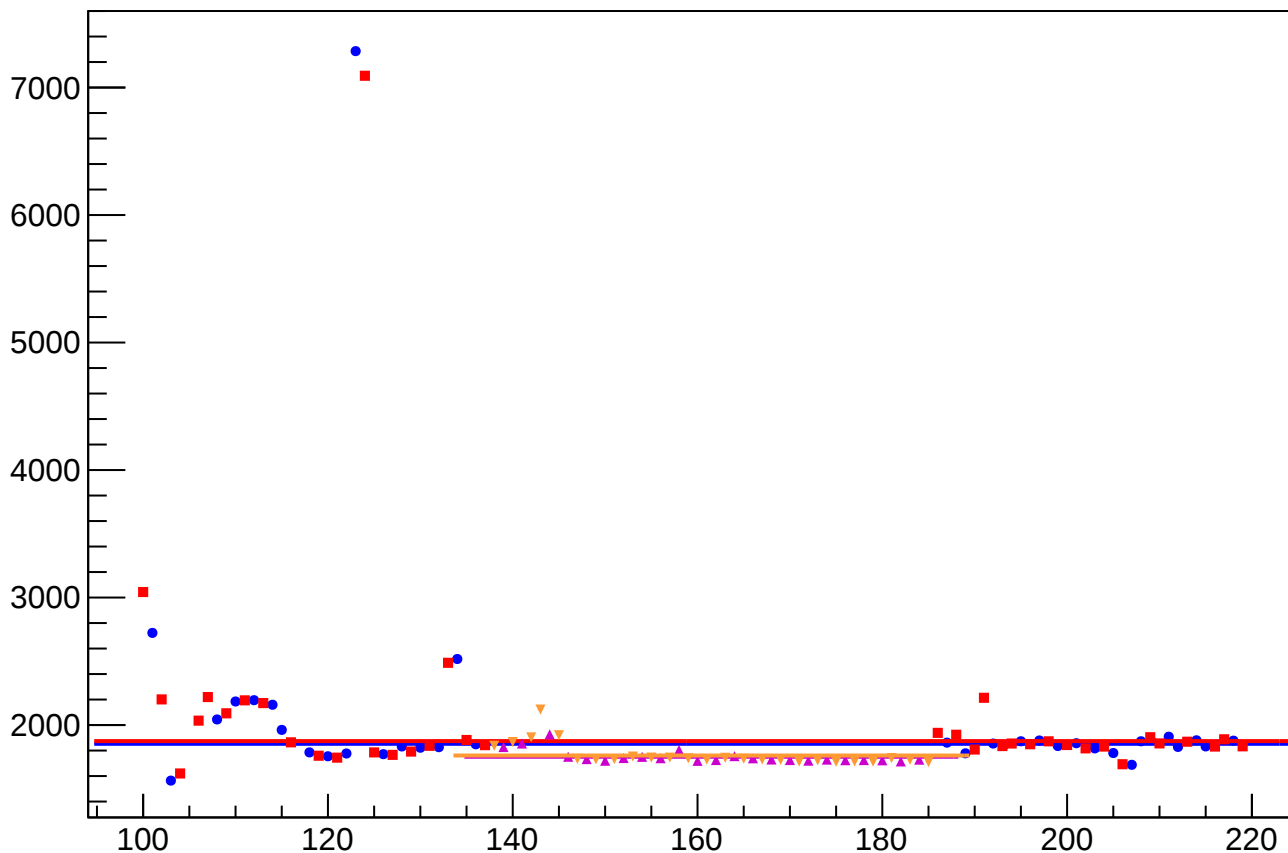
Right: -363.067+/-306.246 χ^2 /NDF: 70.6/69

In: -810.194+/-302.977 χ^2 /NDF:41.8/55

Out: -36.837+/-296.686 χ^2 /NDF:76.1/61

All: -415.403+/-211.978 χ^2 /NDF: 121.2/117

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1852.994 $\pm$ 0.309 χ^2 /NDF: 307378.6/32

Left Out: 1761.091 $\pm$ 0.291 χ^2 /NDF: 77468.5/24

Right Out: 1874.059 $\pm$ 0.303 χ^2 /NDF: 396562.2/36

Left In: 1751.418 $\pm$ 0.297 χ^2 /NDF: 28578.7/22

Left: 1756.358 $\pm$ 0.208 χ^2 /NDF: 106589.3/47

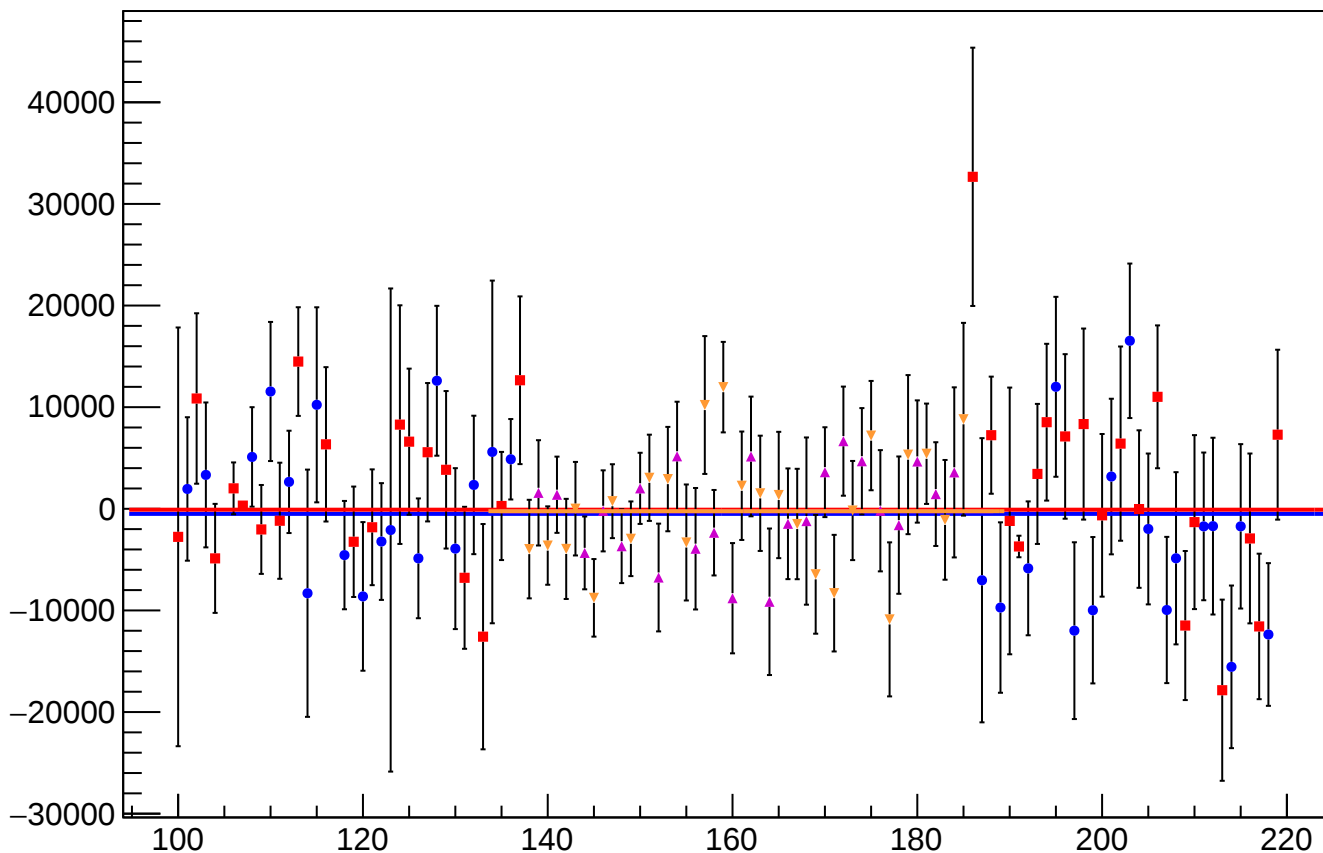
Right: 1863.747 $\pm$ 0.216 χ^2 /NDF: 706306.9/69

In: 1800.112 $\pm$ 0.214 χ^2 /NDF: 392061.2/55

Out: 1815.216 $\pm$ 0.210 χ^2 /NDF: 546433.3/61

All: 1807.824 $\pm$ 0.150 χ^2 /NDF: 941032.6/117

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: -499.892 $\pm$ 1235.935 χ^2 /NDF: 36.3/32

Left Out: -235.806 $\pm$ 1005.144 χ^2 /NDF:28.9/24

Right Out: -87.452 $\pm$ 407.907 χ^2 /NDF: 55.5/36

Left In: -239.224 $\pm$ 1028.883 χ^2 /NDF:15.3/22

Left: -237.475 $\pm$ 718.990 χ^2 /NDF: 44.2/47

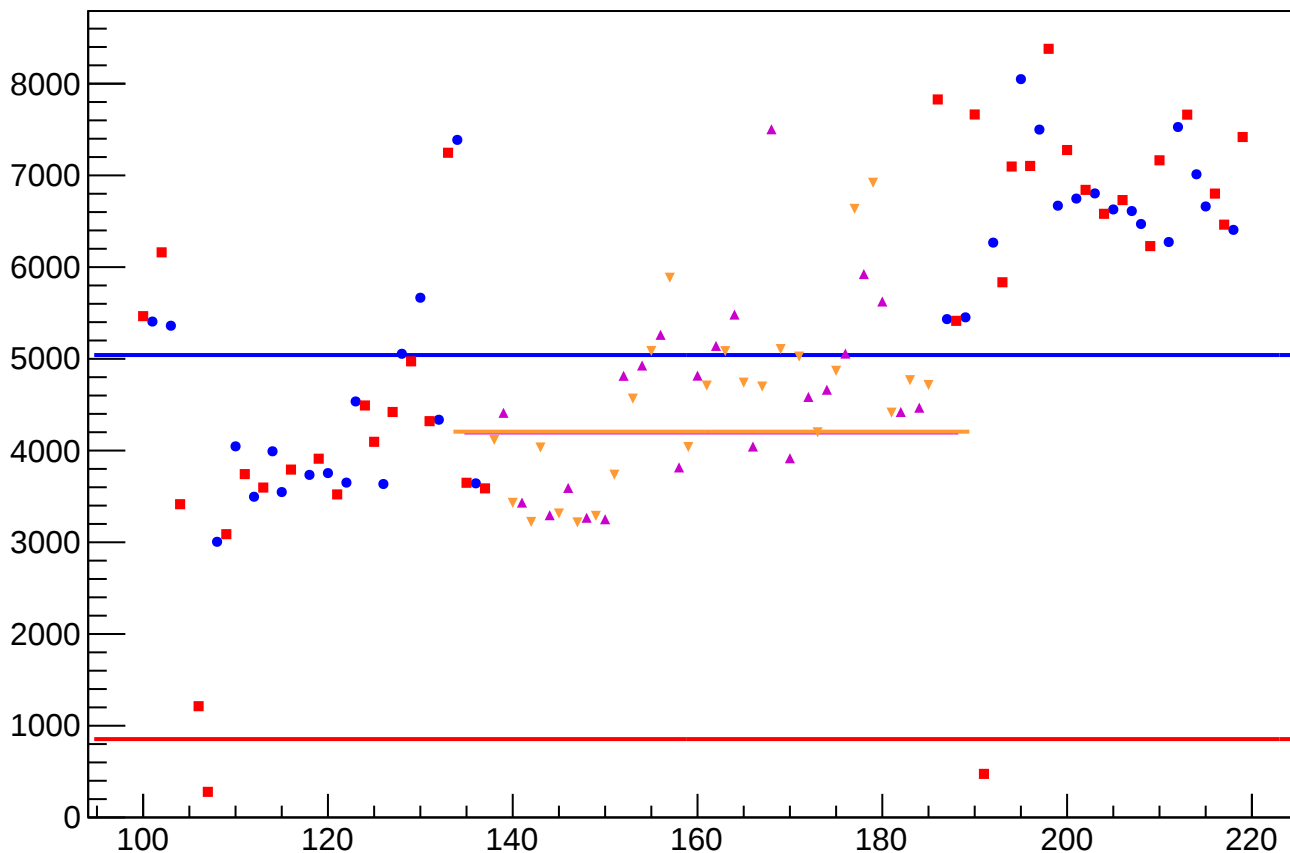
Right: -127.964 $\pm$ 387.355 χ^2 /NDF: 91.9/69

In: -345.925 $\pm$ 790.744 χ^2 /NDF:51.6/55

Out: -108.429 $\pm$ 377.969 χ^2 /NDF:84.4/61

All: -152.599 $\pm$ 341.014 χ^2 /NDF: 136.1/117

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 5041.481+/-0.874

χ^2/NDF : 2902759.2/32

Left Out: 4206.076+/-0.711

χ^2/NDF : 1442269.3/24

Right Out: 854.396+/-0.288

χ^2/NDF : 29662867.7/36

Left In: 4197.267+/-0.728

χ^2/NDF : 1471012.9/22

Left: 4201.775+/-0.508 χ^2/NDF : 2913357.2/47

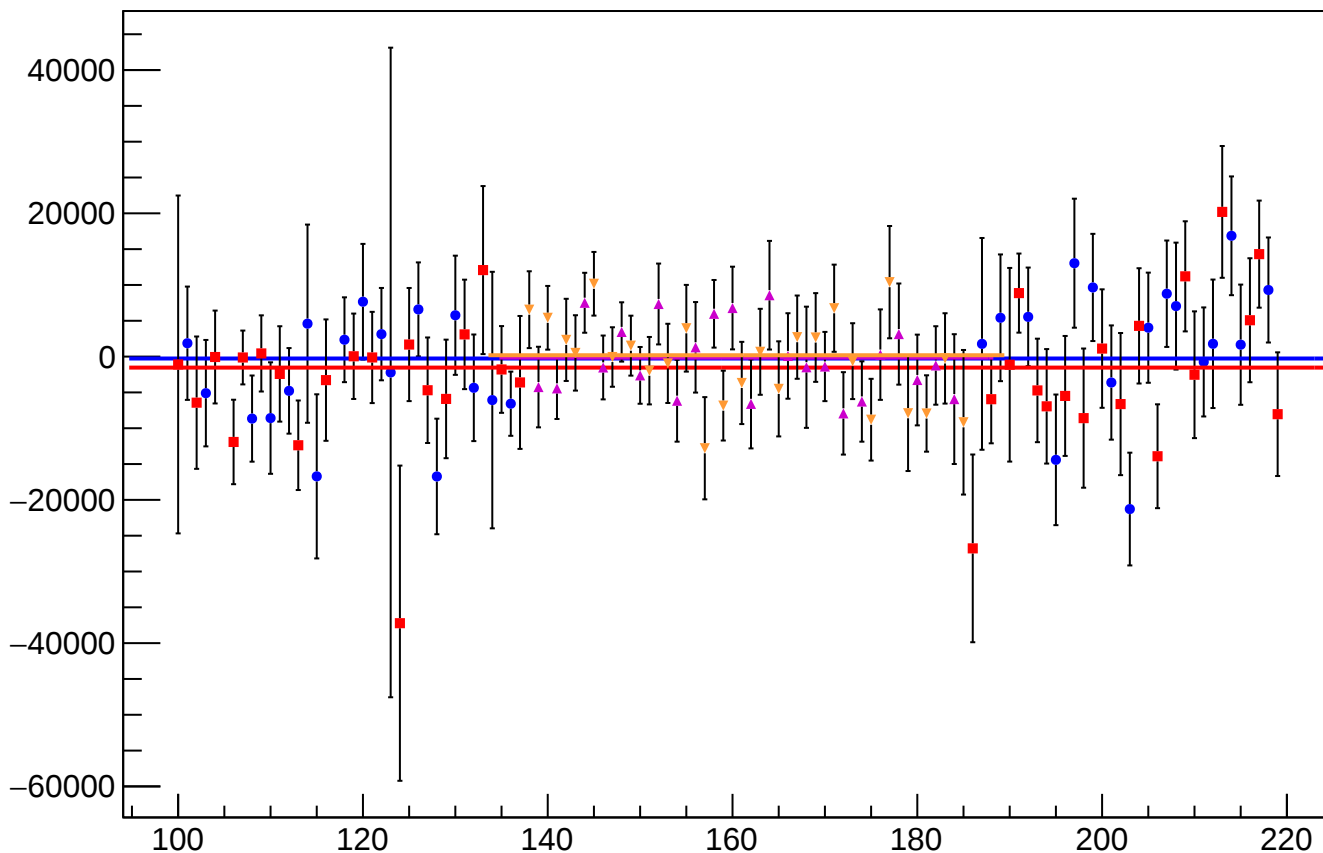
Right: 1265.678+/-0.274 χ^2/NDF : 53265122.4/69

In: 4542.835+/-0.559 χ^2/NDF : 4924939.2/55

Out: 1328.330+/-0.267 χ^2/NDF : 50198776.8/61

All: 1926.173+/-0.241 χ^2/NDF : 82027886.2/1

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -266.028 ± 1349.597 χ^2/NDF : 39.3/32

Left Out: 189.721 ± 1106.851 χ^2/NDF : 25.0/24

Right Out: -1536.192 ± 1215.174 χ^2/NDF : 38.9/36

Left In: -137.477 ± 1129.656 χ^2/NDF : 18.6/22

Left: 29.458 ± 790.601 χ^2/NDF : 43.6/47

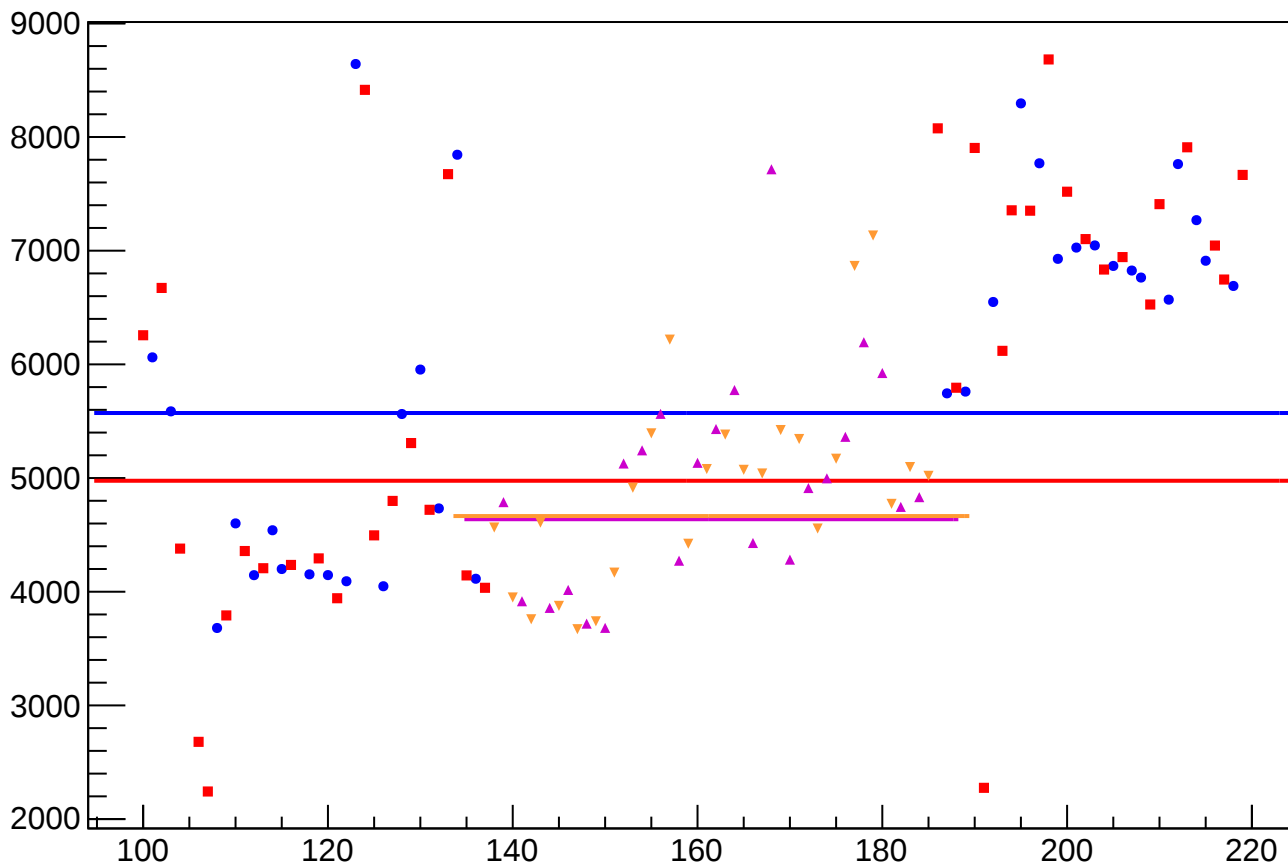
Right: -967.499 ± 903.053 χ^2/NDF : 78.7/69

In: -190.438 ± 866.248 χ^2/NDF : 57.9/55

Out: -592.896 ± 818.283 χ^2/NDF : 65.0/61

All: -403.117 ± 594.848 χ^2/NDF : 123.0/117

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 5572.158 $\pm$ 0.954 χ^2/NDF : 2089831.7/32

Left Out: 4665.620 $\pm$ 0.783 χ^2/NDF : 1017235.0/24

Right Out: 4976.127 $\pm$ 0.856 χ^2/NDF : 4765989.1/36

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

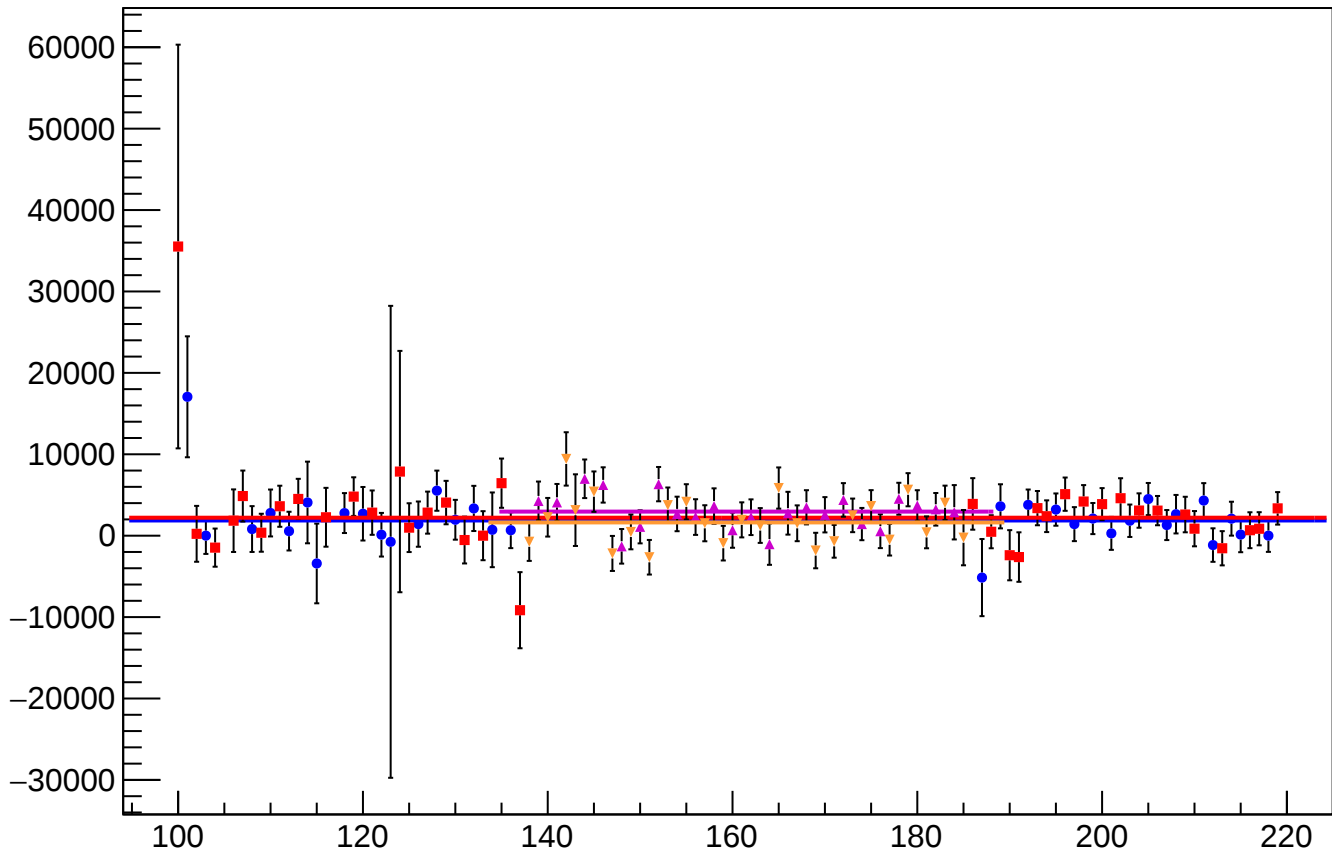
Right: 5241.862 $\pm$ 0.637 χ^2/NDF : 7071990.2/69

In: 5022.724 $\pm$ 0.613 χ^2/NDF : 3718766.5/55

Out: 4807.009 $\pm$ 0.578 χ^2/NDF : 5854894.2/61

All: 4908.542 $\pm$ 0.420 χ^2/NDF : 9639308.8/11

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1868.814+/-424.011 χ^2 /NDF: 22.0/32

Left Out: 1630.035+/-447.063 χ^2 /NDF:35.4/24

Right Out: 2208.883+/-409.636 χ^2 /NDF: 34.6/36

Left In: 2958.620+/-453.688 χ^2 /NDF:20.4/22

Left: 2284.557+/-318.438 χ^2 /NDF: 60.2/47

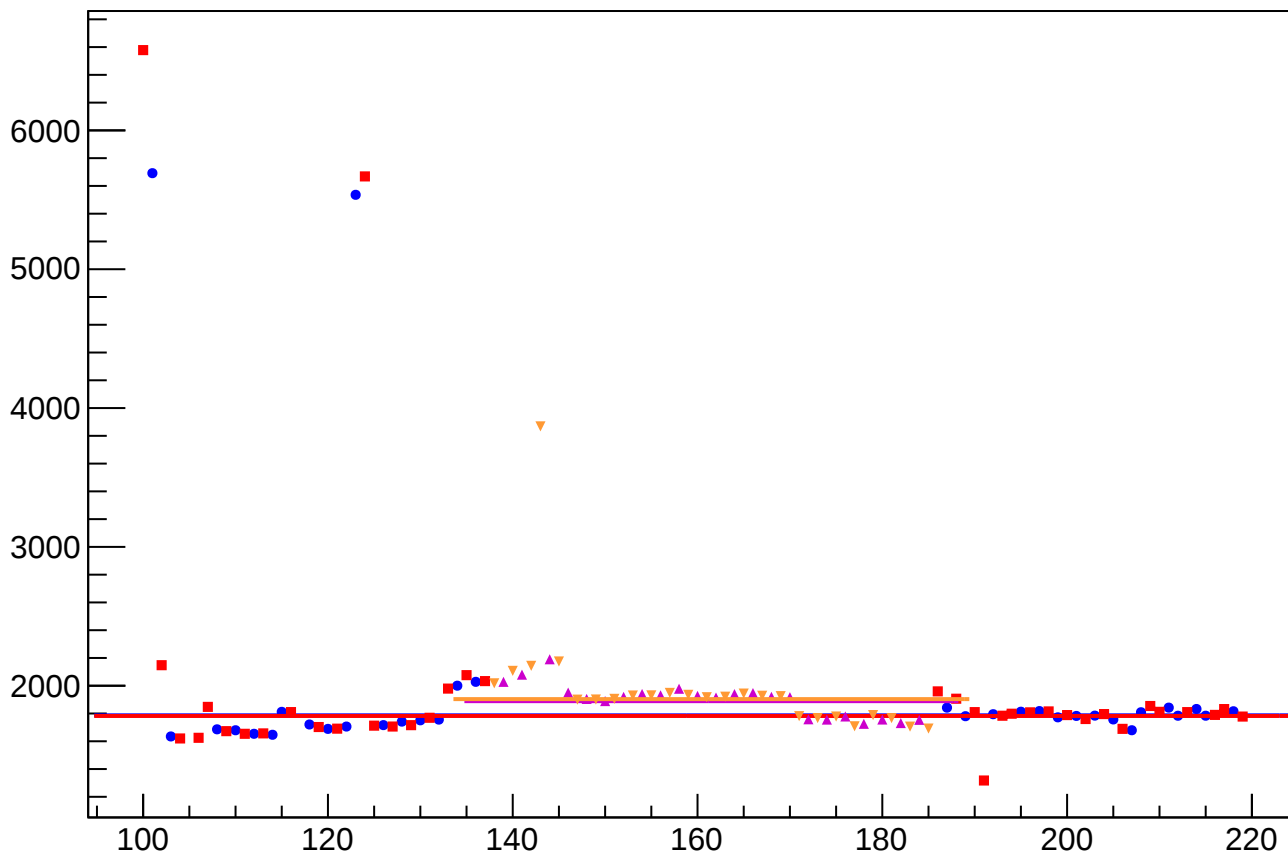
Right: 2044.711+/-294.607 χ^2 /NDF: 56.9/69

In: 2376.911+/-309.782 χ^2 /NDF:45.5/55

Out: 1944.699+/-302.023 χ^2 /NDF:70.9/61

All: 2155.325+/-216.253 χ^2 /NDF: 117.4/117

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1786.671+/-0.300 χ^2/NDF : 656045.9/32

Left Out: 1903.618+/-0.316 χ^2/NDF : 541575.7/24

Right Out: 1782.349+/-0.289 χ^2/NDF : 378336.8/36

Left In: 1888.927+/-0.321 χ^2/NDF : 126417.2/22

Left: 1896.381+/-0.225 χ^2/NDF : 669056.9/47

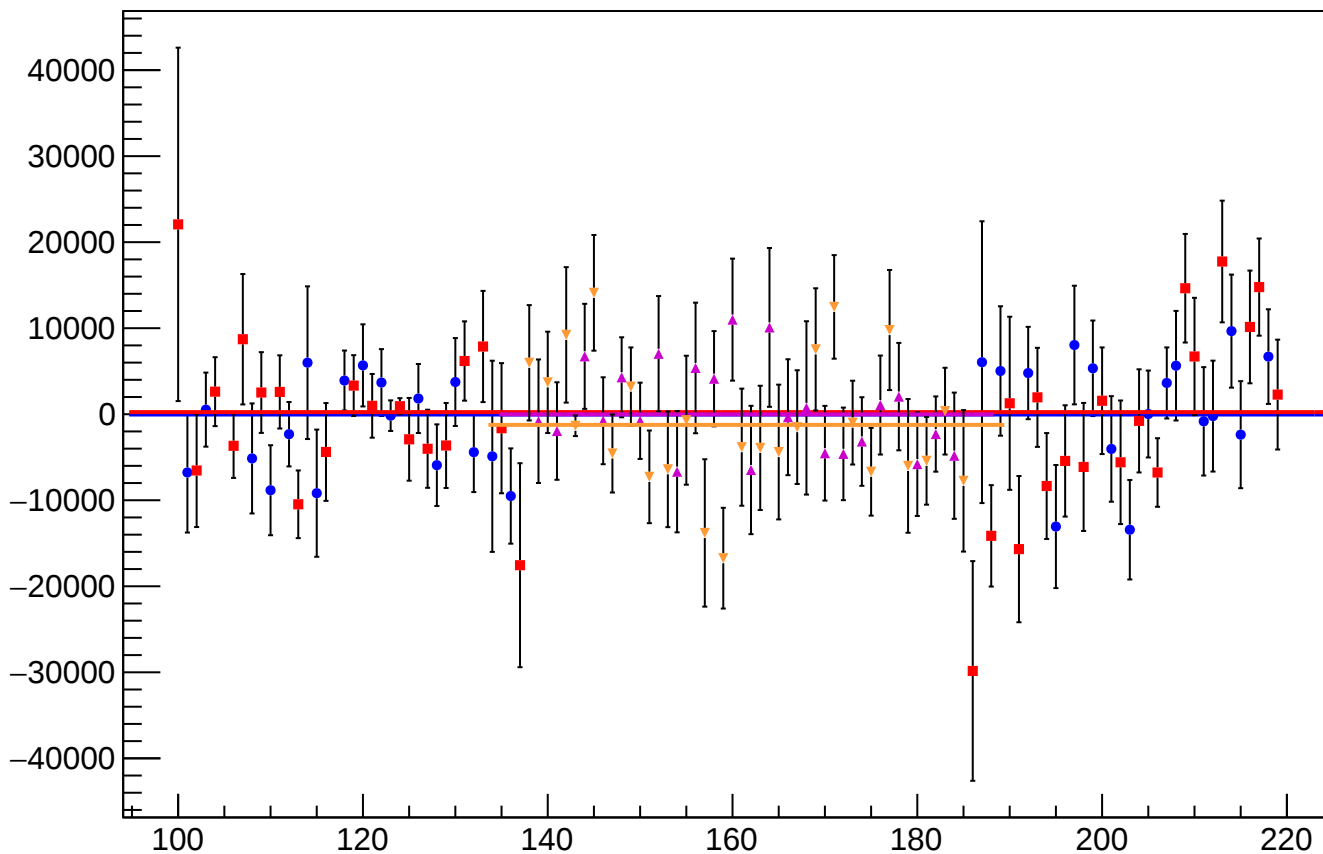
Right: 1784.430+/-0.208 χ^2/NDF : 1034490.4/69

In: 1834.346+/-0.219 χ^2/NDF : 836694.1/55

Out: 1837.547+/-0.213 χ^2/NDF : 1000090.7/61

All: 1835.989+/-0.153 χ^2/NDF : 1836894.5/111

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -33.608 ± 839.830 $\chi^2/\text{NDF}: 35.0/32$

Left Out: -1239.833 ± 865.201 $\chi^2/\text{NDF}: 33.9/24$

Right Out: 244.576 ± 654.148 $\chi^2/\text{NDF}: 65.8/36$

Left In: -15.863 ± 1243.317 $\chi^2/\text{NDF}: 13.2/22$

Left: -840.501 ± 710.172 $\chi^2/\text{NDF}: 47.8/47$

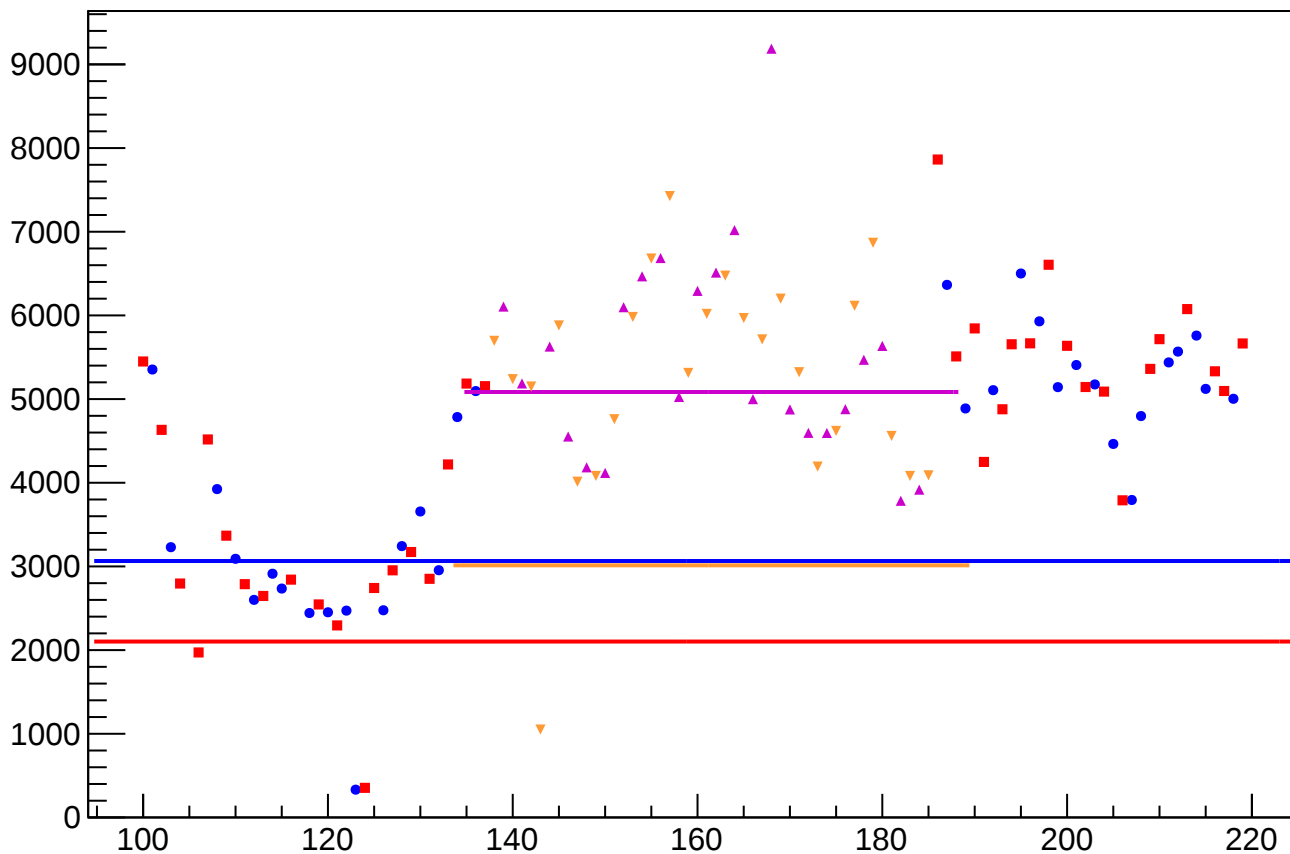
Right: 139.533 ± 516.071 $\chi^2/\text{NDF}: 100.8/69$

In: -28.049 ± 695.939 $\chi^2/\text{NDF}: 48.2/55$

Out: -295.333 ± 521.796 $\chi^2/\text{NDF}: 101.6/61$

All: -199.148 ± 417.482 $\chi^2/\text{NDF}: 149.9/117$

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 3064.844+/-0.594

χ^2/NDF : 9430801.8/32

Left: 3689.075+/-0.502

χ^2/NDF : 17314385.8/47

Left Out: 3013.268+/-0.612

χ^2/NDF : 12270753.9/24

Right: 2465.749+/-0.365

χ^2/NDF : 29120328.2/69

Right Out: 2102.282+/-0.463

χ^2/NDF : 18054328.0/36

In: 3697.673+/-0.492

χ^2/NDF : 14358840.1/55

Out: 2433.626+/-0.369

χ^2/NDF : 31735888.4/61

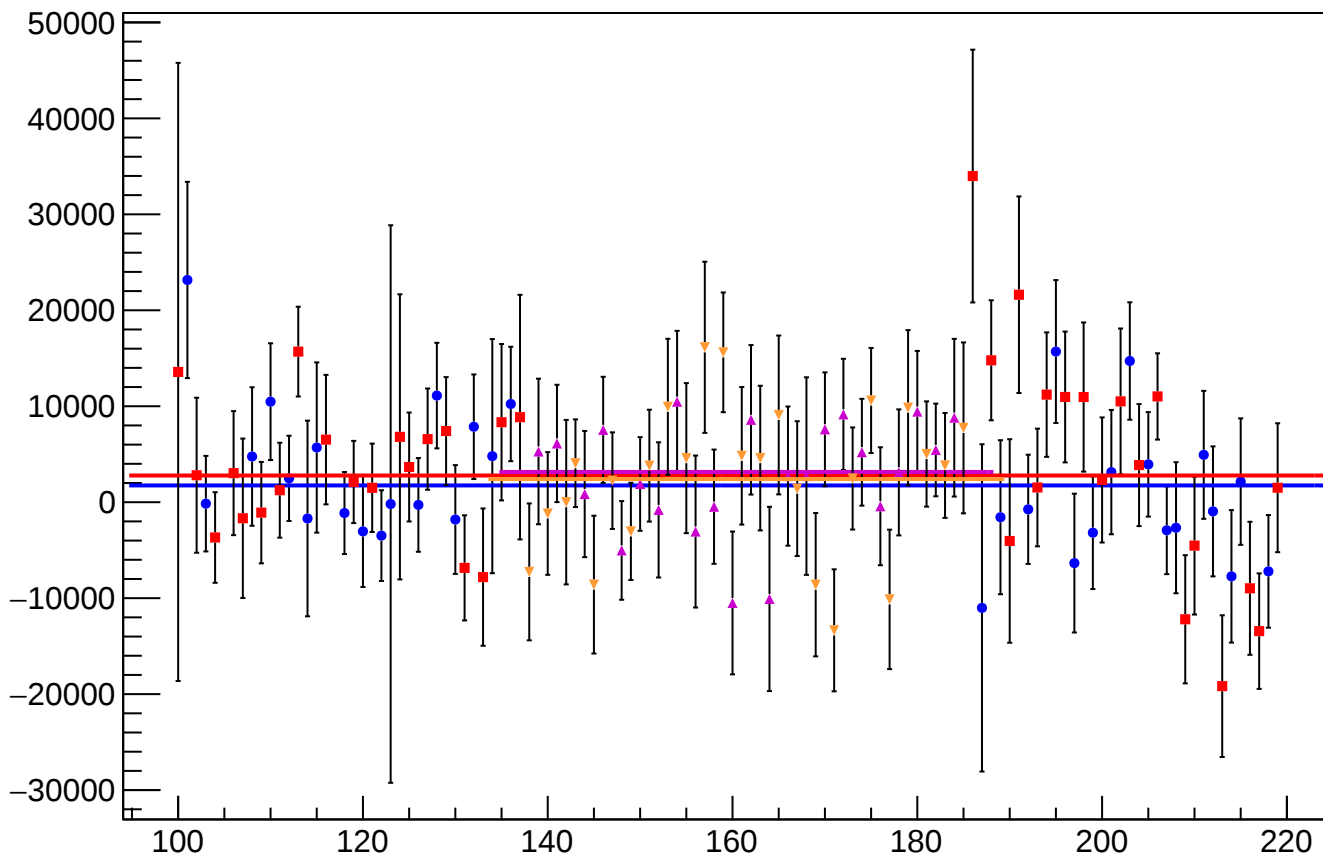
Left In: 5084.645+/-0.879

χ^2/NDF : 1303587.7/22

All: 2888.506+/-0.295

χ^2/NDF : 50318393.6/1

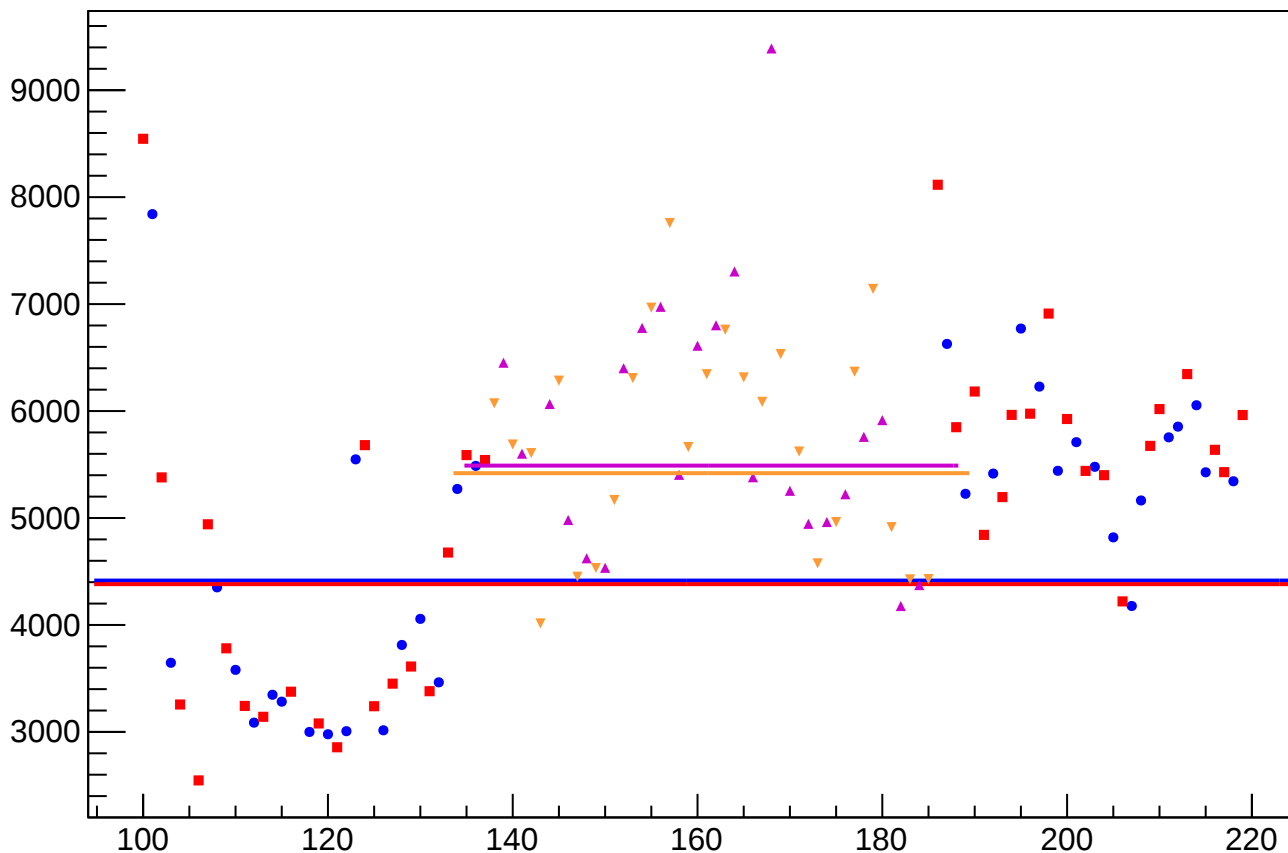
asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1747.587 $\pm$ 1077.687 χ^2 /NDF: 33.4/32
 Left Out: 2417.210 $\pm$ 1286.482 χ^2 /NDF:29.9/24
 Right Out: 2781.594 $\pm$ 1050.069 χ^2 /NDF: 65.1/36
 Left In: 3153.449 $\pm$ 1337.378 χ^2 /NDF:15.5/22

Left: 2771.054 $\pm$ 927.151 χ^2 /NDF: 45.5/47
 Right: 2278.010 $\pm$ 752.086 χ^2 /NDF: 99.0/69
 In: 2301.075 $\pm$ 839.144 χ^2 /NDF:49.6/55
 Out: 2635.897 $\pm$ 813.485 χ^2 /NDF:95.0/61
 All: 2473.683 $\pm$ 584.082 χ^2 /NDF: 144.7/117

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 4415.022 ± 0.762 $\chi^2/\text{NDF}: 2462536.2/32$

Left Out: 5419.305 ± 0.910 $\chi^2/\text{NDF}: 1109972.1/24$

Right Out: 4381.550 ± 0.736 $\chi^2/\text{NDF}: 3066813.0/36$

Left In: 5489.885 ± 0.946 $\chi^2/\text{NDF}: 1064353.3/22$

Left: 5453.227 ± 0.656 $\chi^2/\text{NDF}: 2177218.7/47$

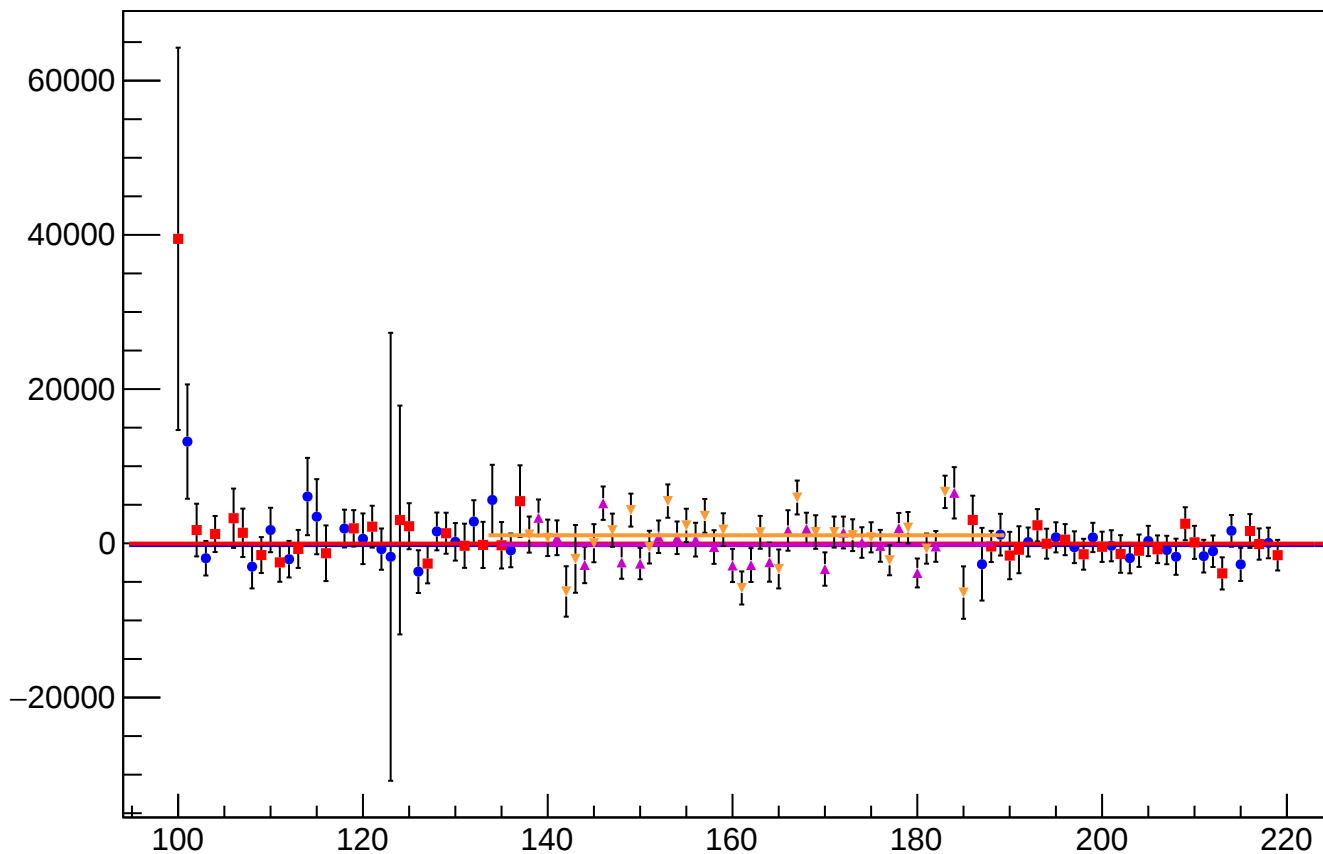
Right: 4397.716 ± 0.530 $\chi^2/\text{NDF}: 5530346.9/69$

In: 4838.194 ± 0.593 $\chi^2/\text{NDF}: 4310168.7/55$

Out: 4792.432 ± 0.572 $\chi^2/\text{NDF}: 4962919.8/61$

All: 4814.490 ± 0.412 $\chi^2/\text{NDF}: 9276169.4/11$

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -226.146+/-421.714 χ^2/NDF : 19.2/32

Left Out: 1041.262+/-446.249 χ^2/NDF : 48.6/24

Right Out: -35.406+/-407.411 χ^2/NDF : 20.1/36

Left In: -191.966+/-453.055 χ^2/NDF : 30.0/22

Left: 433.980+/-317.925 χ^2/NDF : 82.3/47

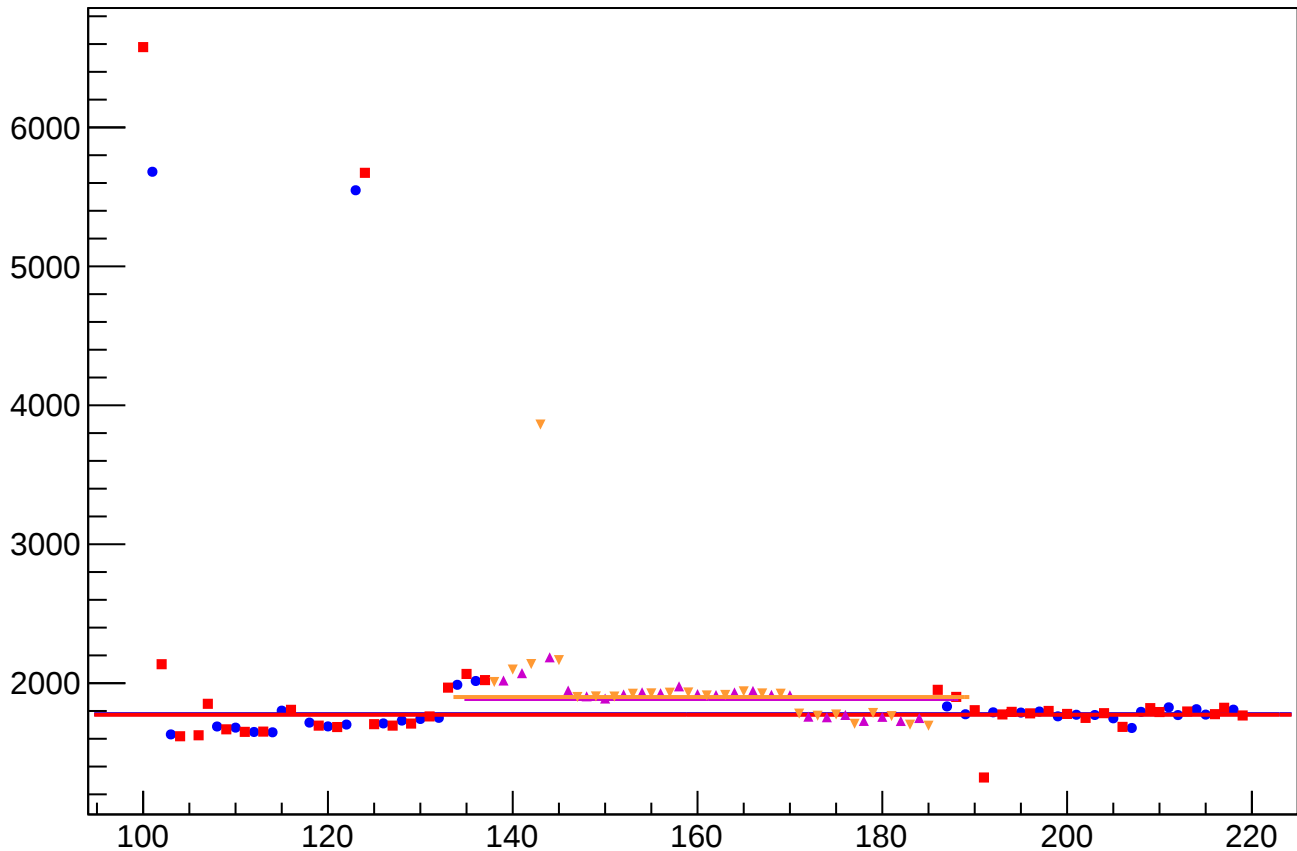
Right: -127.486+/-293.009 χ^2/NDF : 39.4/69

In: -210.279+/-308.683 χ^2/NDF : 49.2/55

Out: 454.045+/-300.878 χ^2/NDF : 71.8/61

All: 130.387+/-215.459 χ^2/NDF : 123.4/117

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1777.130+/-0.298 χ^2/NDF : 652376.6/32

Left Out: 1900.295+/-0.316 χ^2/NDF : 537892.5/24

Right Out: 1772.915+/-0.287 χ^2/NDF : 372879.1/36

Left In: 1886.378+/-0.320 χ^2/NDF : 123520.6/22

Left: 1893.441+/-0.225 χ^2/NDF : 662371.1/47

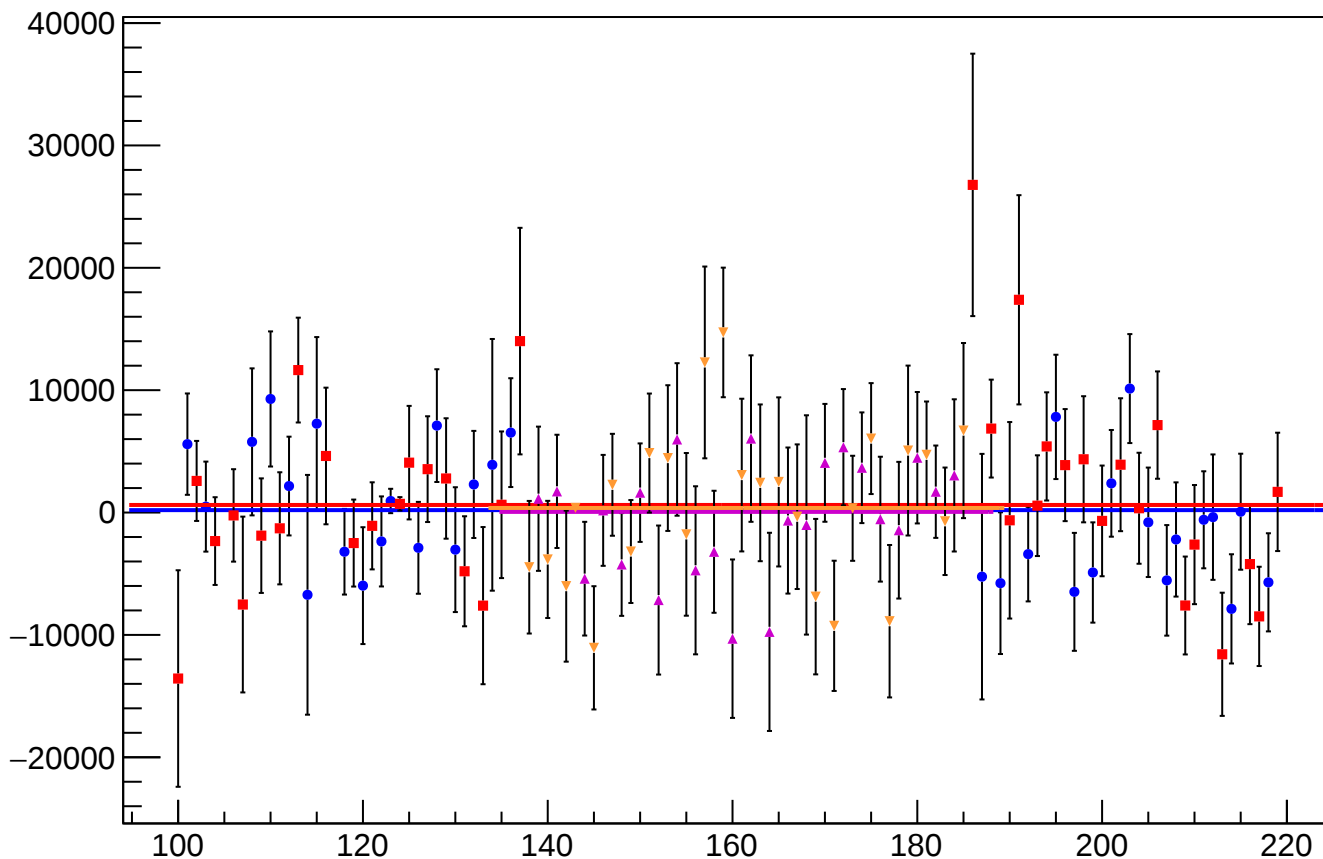
Right: 1774.945+/-0.207 χ^2/NDF : 1025359.3/69

In: 1827.845+/-0.218 χ^2/NDF : 838204.3/55

Out: 1830.667+/-0.212 χ^2/NDF : 999846.8/61

All: 1829.294+/-0.152 χ^2/NDF : 1838136.9/11

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 196.859+/-630.349 χ^2/NDF : 37.0/32

Left Out: 373.277+/-382.071 χ^2/NDF :30.8/24

Right Out: 619.462+/-448.880 χ^2/NDF : 53.7/36

Left In: 53.099+/-1089.888 χ^2/NDF :14.5/22

Left: 338.236+/-360.558 χ^2/NDF : 45.4/47

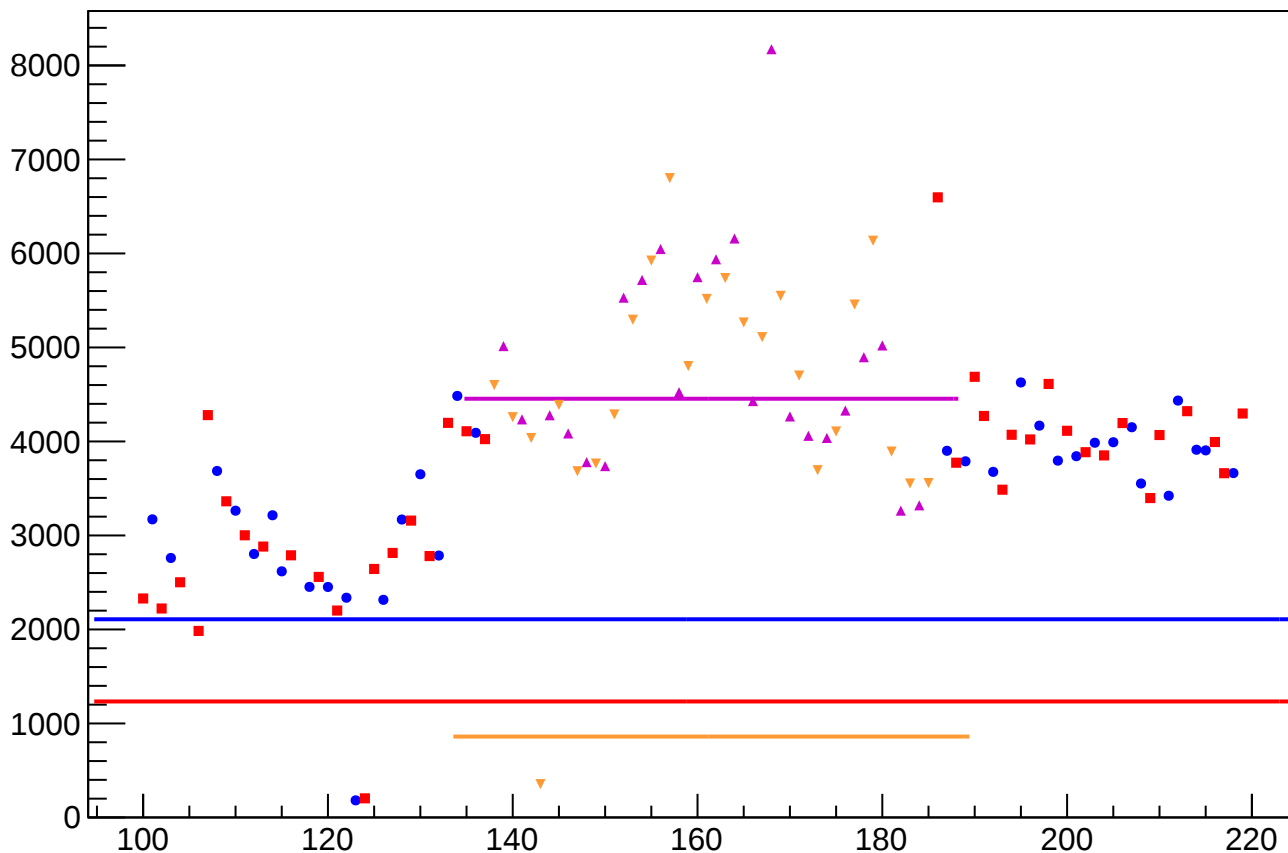
Right: 477.267+/-365.644 χ^2/NDF : 90.9/69

In: 160.825+/-545.659 χ^2/NDF :51.5/55

Out: 476.704+/-290.948 χ^2/NDF :84.7/61

All: 406.778+/-256.732 χ^2/NDF : 136.4/117

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 2108.212 $\pm$ 0.446 χ^2 /NDF: 13824339.3/32

Left Out: 860.545 $\pm$ 0.270 χ^2 /NDF: 26340106.5/24

Right Out: 1233.984 $\pm$ 0.317 χ^2 /NDF: 23610248.0/36

Left In: 4454.402 $\pm$ 0.771 χ^2 /NDF: 1349758.1/22

Left: 1253.867 $\pm$ 0.255 χ^2 /NDF: 47056303.3/47

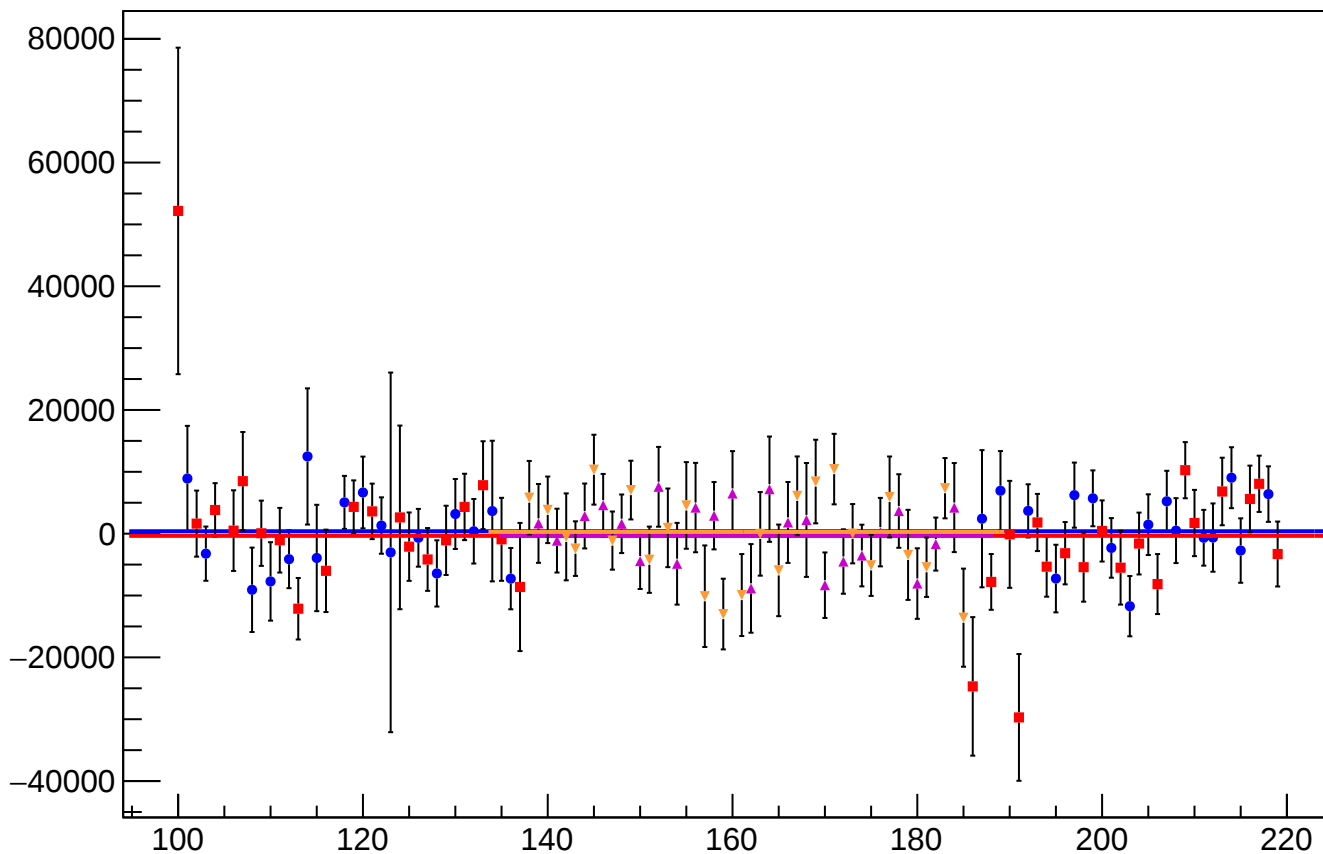
Right: 1528.141 $\pm$ 0.259 χ^2 /NDF: 39987137.2/69

In: 2696.301 $\pm$ 0.386 χ^2 /NDF: 22119113.8/55

Out: 1017.433 $\pm$ 0.206 χ^2 /NDF: 50753046.4/61

All: 1389.083 $\pm$ 0.182 χ^2 /NDF: 87613987.8/122

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 391.166 ± 941.167 χ^2/NDF : 33.5/32

Left Out: 288.508 ± 1155.419 χ^2/NDF : 32.4/24

Right Out: -350.605 ± 916.346 χ^2/NDF : 51.9/36

Left In: -332.488 ± 1196.011 χ^2/NDF : 14.7/22

Left: -11.273 ± 830.984 χ^2/NDF : 47.2/47

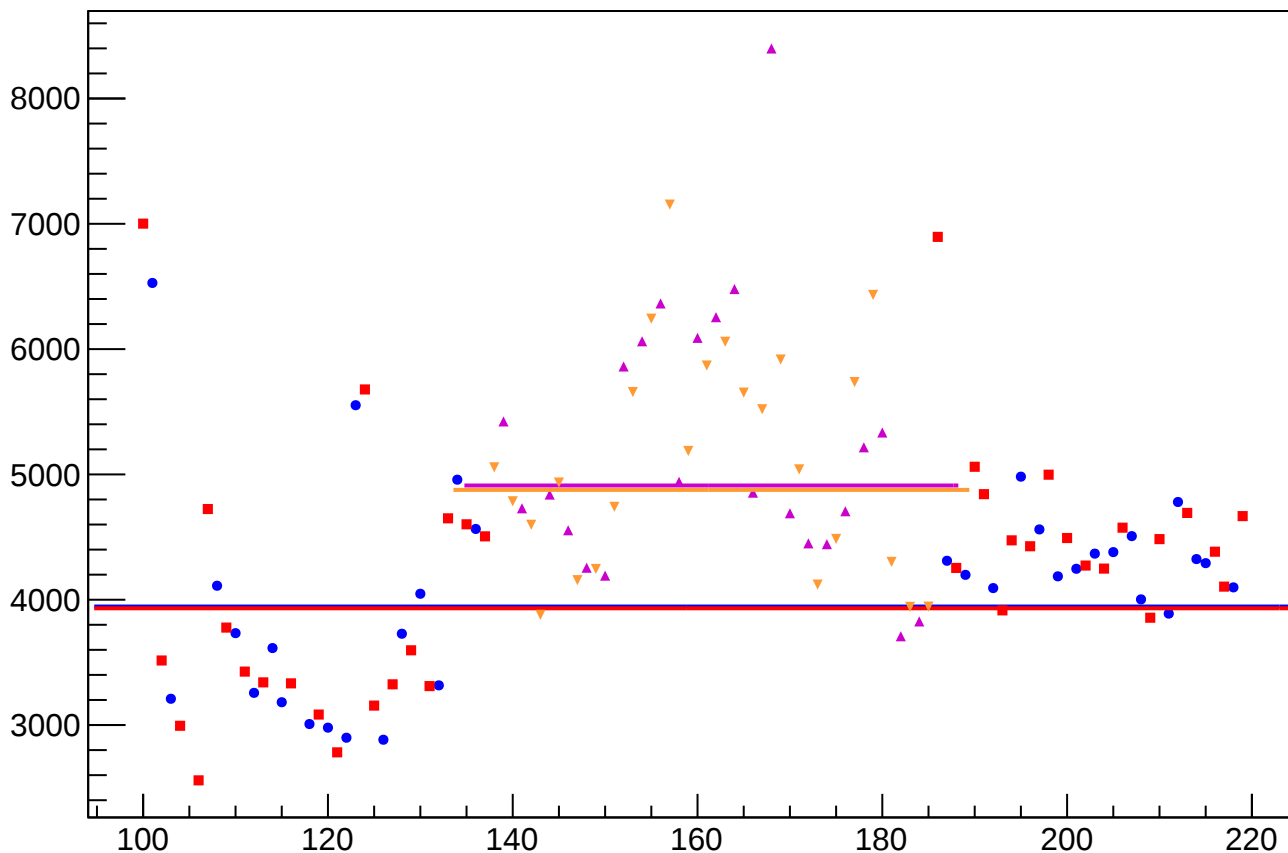
Right: 10.371 ± 656.554 χ^2/NDF : 85.7/69

In: 114.421 ± 739.623 χ^2/NDF : 48.4/55

Out: -103.830 ± 717.961 χ^2/NDF : 84.4/61

All: 2.052 ± 515.163 χ^2/NDF : 132.9/117

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3945.593 $\pm$ 0.666 χ^2 /NDF: 997387.0/32

Left Out: 4876.564 $\pm$ 0.817 χ^2 /NDF: 972528.1/24

Right Out: 3931.581 $\pm$ 0.644 χ^2 /NDF: 1257883.0/36

Left In: 4911.546 $\pm$ 0.846 χ^2 /NDF: 1043164.6/22

Left: 4893.451 $\pm$ 0.588 χ^2 /NDF: 2016577.8/47

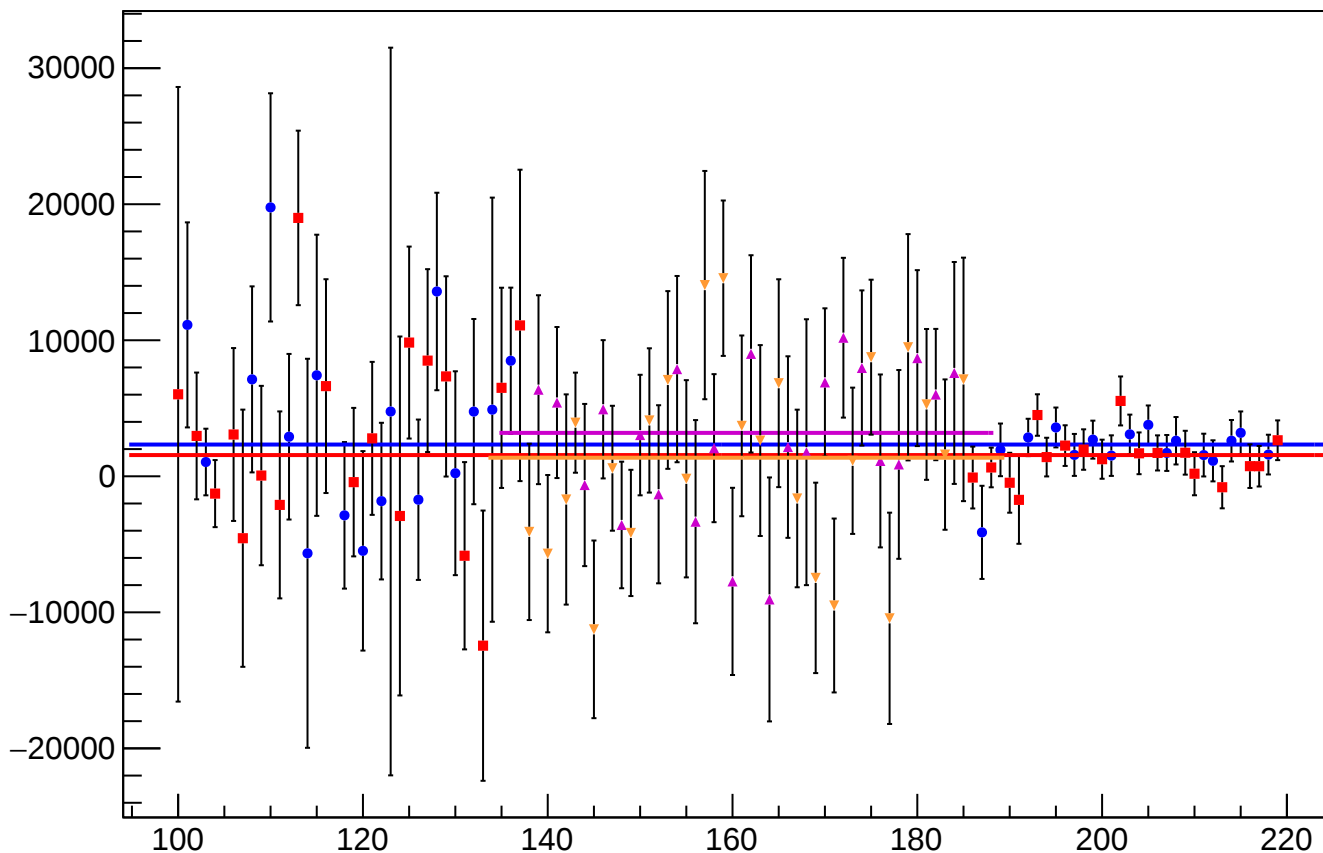
Right: 3938.356 $\pm$ 0.463 χ^2 /NDF: 2255499.0/69

In: 4315.000 $\pm$ 0.523 χ^2 /NDF: 2846227.4/55

Out: 4293.670 $\pm$ 0.506 χ^2 /NDF: 3055620.3/61

All: 4303.977 $\pm$ 0.364 χ^2 /NDF: 5902707.2/11

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2333.794+/-372.119 χ^2/NDF : 22.1/32

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 1560.058+/-361.755 χ^2/NDF : 33.7/36

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

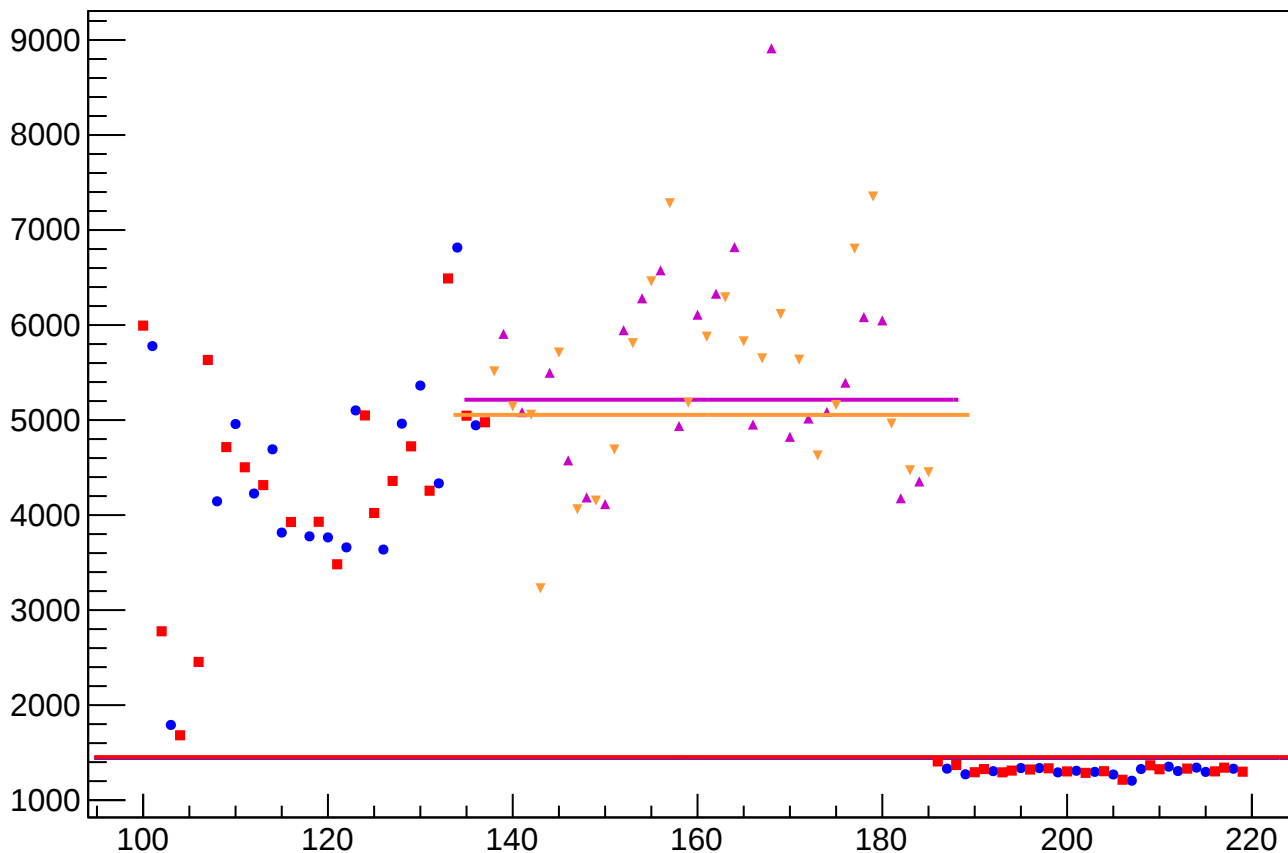
Right: 1936.001+/-259.386 χ^2/NDF : 58.1/69

In: 2401.580+/-357.106 χ^2/NDF : 36.5/55

Out: 1543.969+/-346.508 χ^2/NDF : 61.7/61

All: 1959.860+/-248.681 χ^2/NDF : 101.2/117

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1445.138 $\pm$ 0.263 χ^2 /NDF: 5927038.1/32

Left Out: 5054.711 $\pm$ 0.853 χ^2 /NDF: 1437224.7/24

Right Out: 1452.441 $\pm$ 0.256 χ^2 /NDF: 5865792.1/36

Left In: 5214.120 $\pm$ 0.898 χ^2 /NDF: 1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2 /NDF: 2506291.2/47

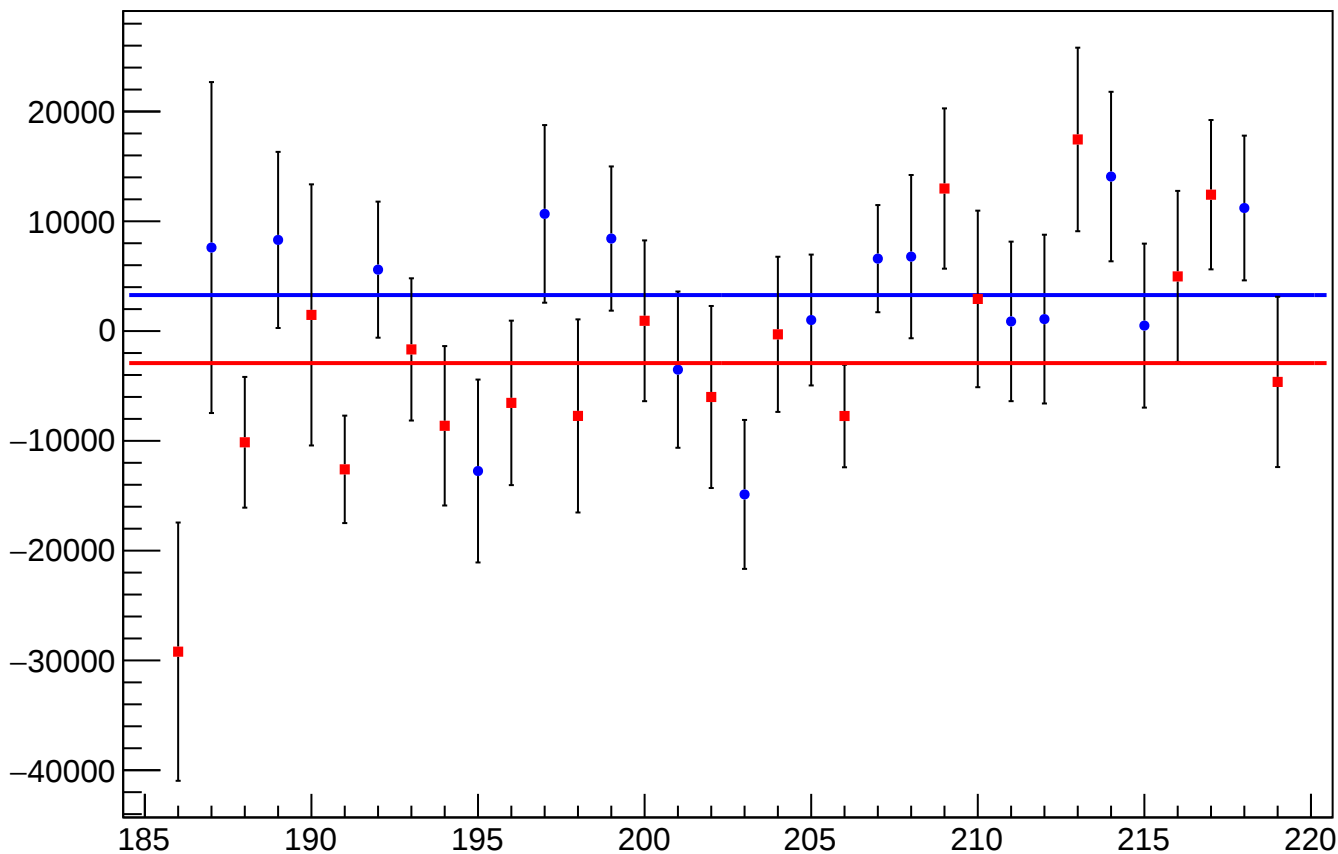
Right: 1448.895 $\pm$ 0.183 χ^2 /NDF: 11793226.5/69

In: 1743.124 $\pm$ 0.253 χ^2 /NDF: 23200861.3/55

Out: 1749.340 $\pm$ 0.245 χ^2 /NDF: 23668884.6/61

All: 1746.327 $\pm$ 0.176 χ^2 /NDF: 46870058.3/121

asym_atl_avg_atr_avg_avg_correction_mean vs Slug, Sign Corrected



Right In: 3279.189+/-1761.925 χ^2/NDF : 18.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -2916.661+/-1666.491 χ^2/NDF : 30.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

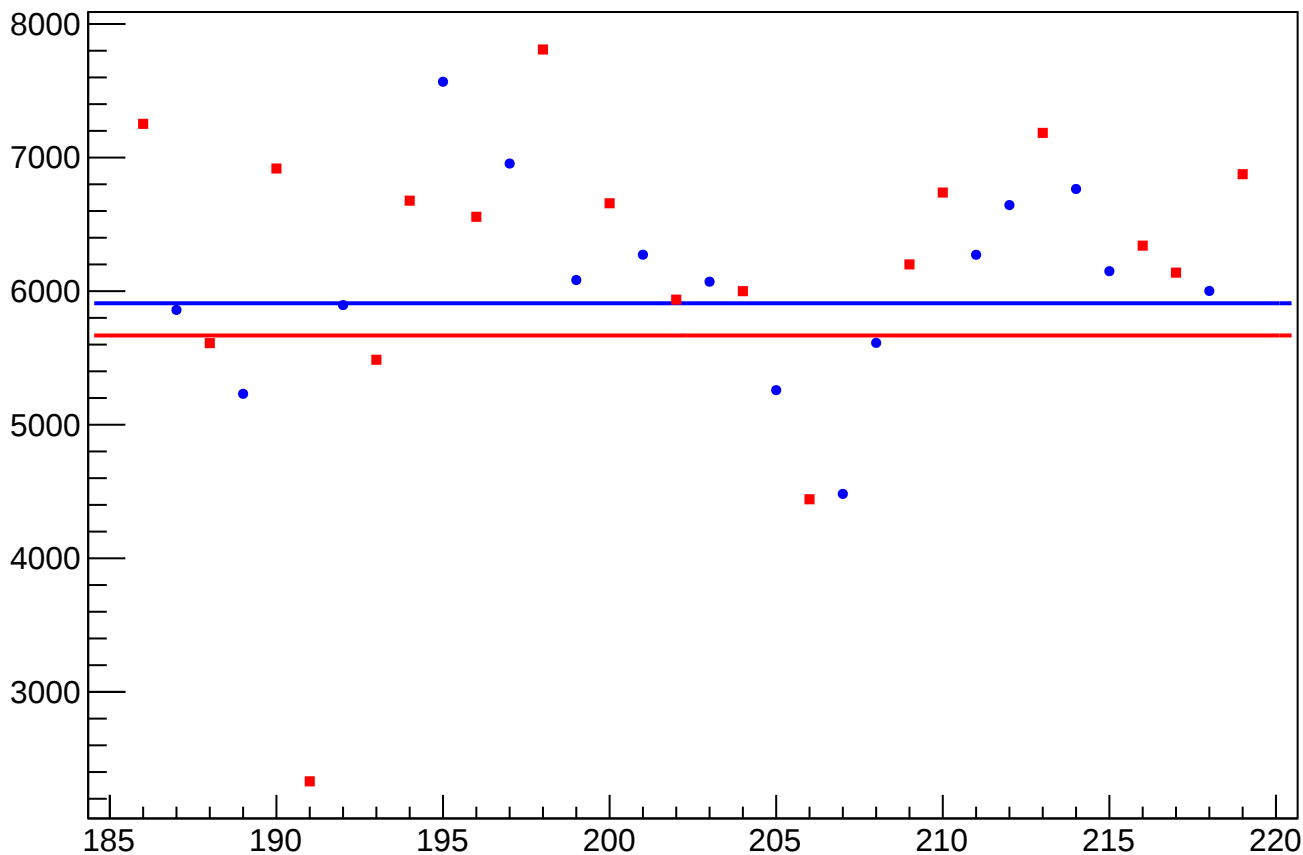
Right: 8.929+/-1210.720 χ^2/NDF : 55.6/33

In: 3279.189+/-1761.925 χ^2/NDF : 18.4/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 8.929+/-1210.720 χ^2/NDF : 55.6/33

asym_atl_avg_atr_avg_avg_correction_rms vs Slug, Sign Corrected



Right In: 5909.387+/-1.246 χ^2/NDF : 383079.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 5668.303+/-1.178 χ^2/NDF : 1541309.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

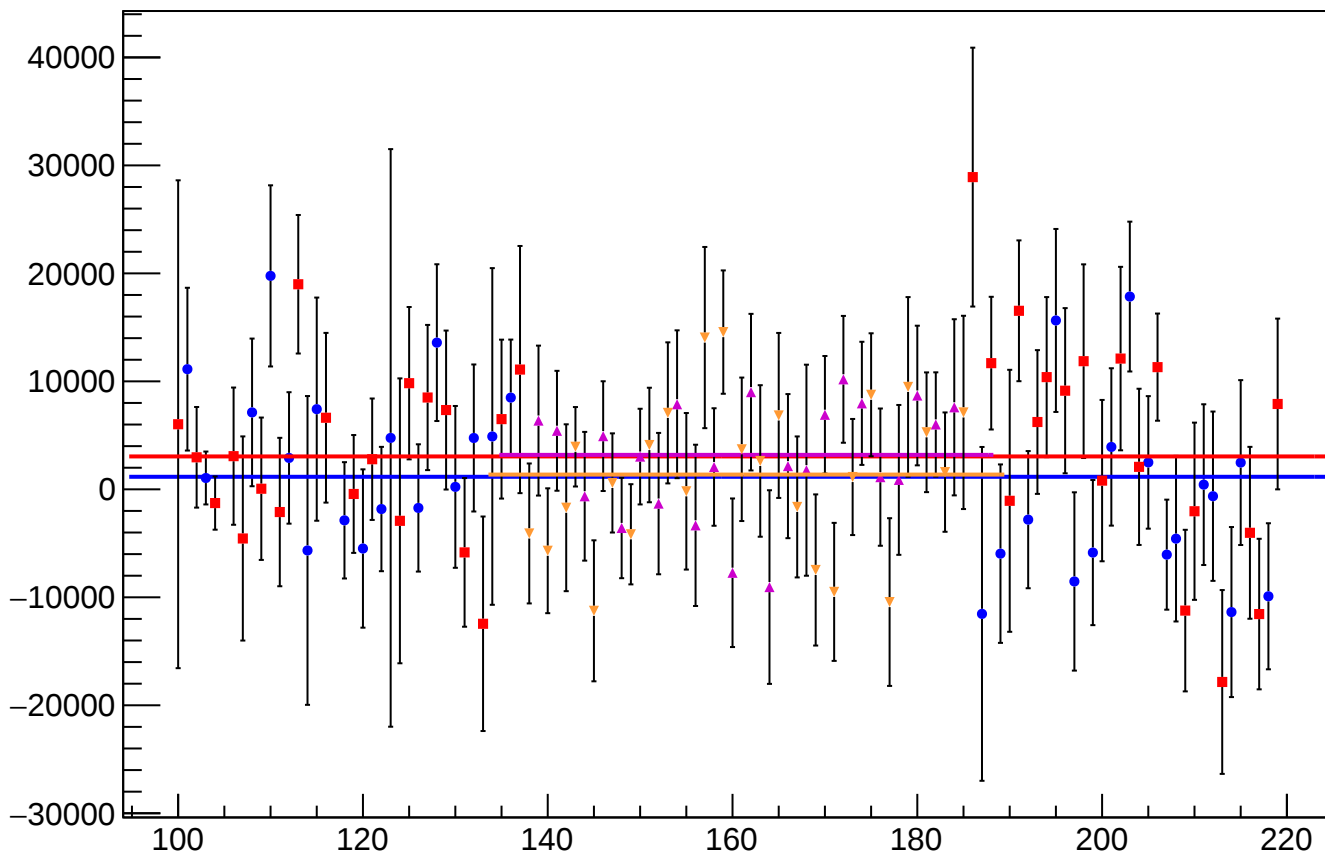
Right: 5782.140+/-0.856 χ^2/NDF : 1944153.5/33

In: 5909.387+/-1.246 χ^2/NDF : 383079.8/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5782.140+/-0.856 χ^2/NDF : 1944153.5/33

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 1161.175+/-1134.284 χ^2/NDF : 36.2/32

Left Out: 1365.082+/-1206.268 χ^2/NDF : 28.0/24

Right Out: 3046.477+/-1086.859 χ^2/NDF : 51.7/36

Left In: 3191.160+/-1270.021 χ^2/NDF : 14.0/22

Left: 2231.138+/-874.630 χ^2/NDF : 43.0/47

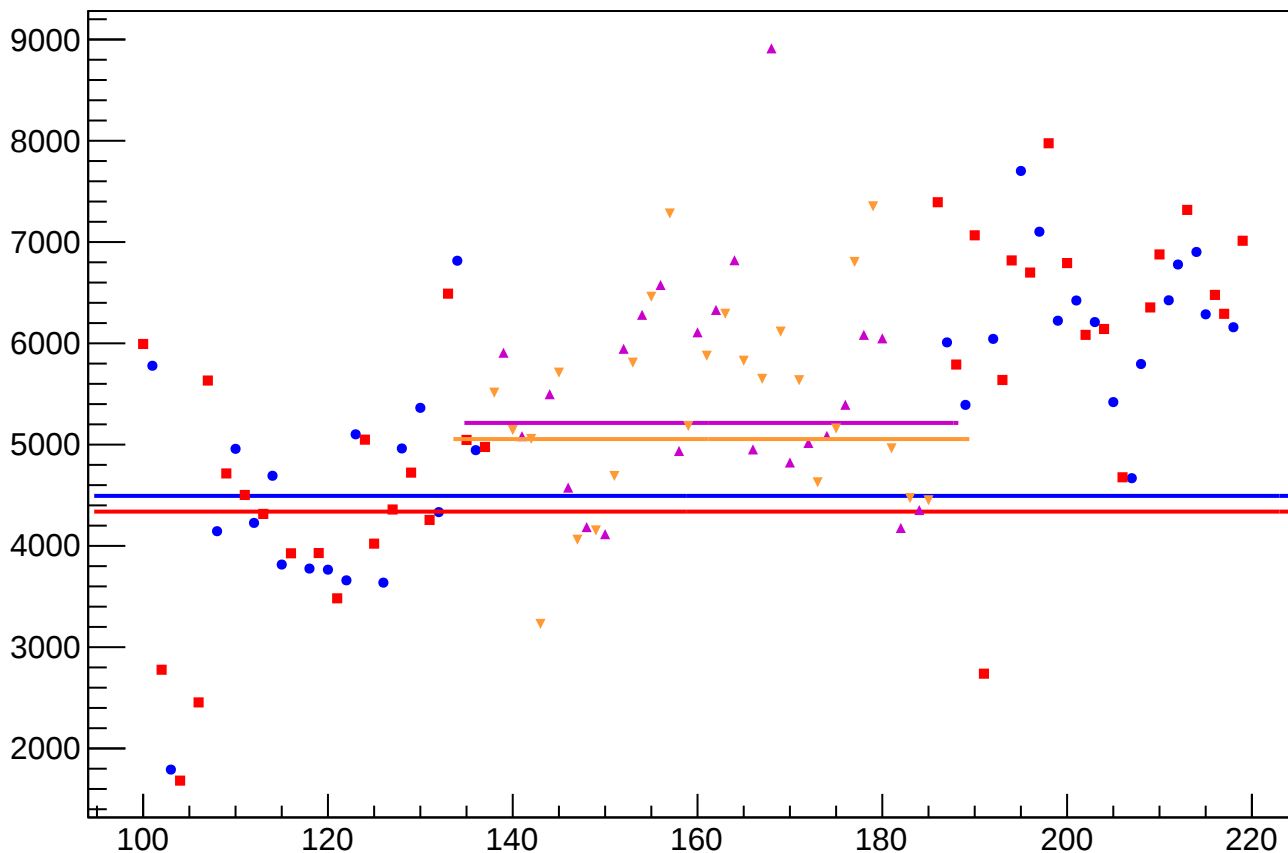
Right: 2144.062+/-784.756 χ^2/NDF : 89.3/69

In: 2061.927+/-845.994 χ^2/NDF : 51.6/55

Out: 2293.097+/-807.450 χ^2/NDF : 80.7/61

All: 2182.898+/-584.104 χ^2/NDF : 132.4/117

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 4493.733 $\pm$ 0.802 χ^2/NDF : 4625595.9/32

Left Out: 5054.711 $\pm$ 0.853 χ^2/NDF : 1437224.7/24

Right Out: 4338.425 $\pm$ 0.764 χ^2/NDF : 5872153.3/36

Left In: 5214.120 $\pm$ 0.898 χ^2/NDF : 1052501.5/22

Left: 5130.314 $\pm$ 0.618 χ^2/NDF : 2506291.2/47

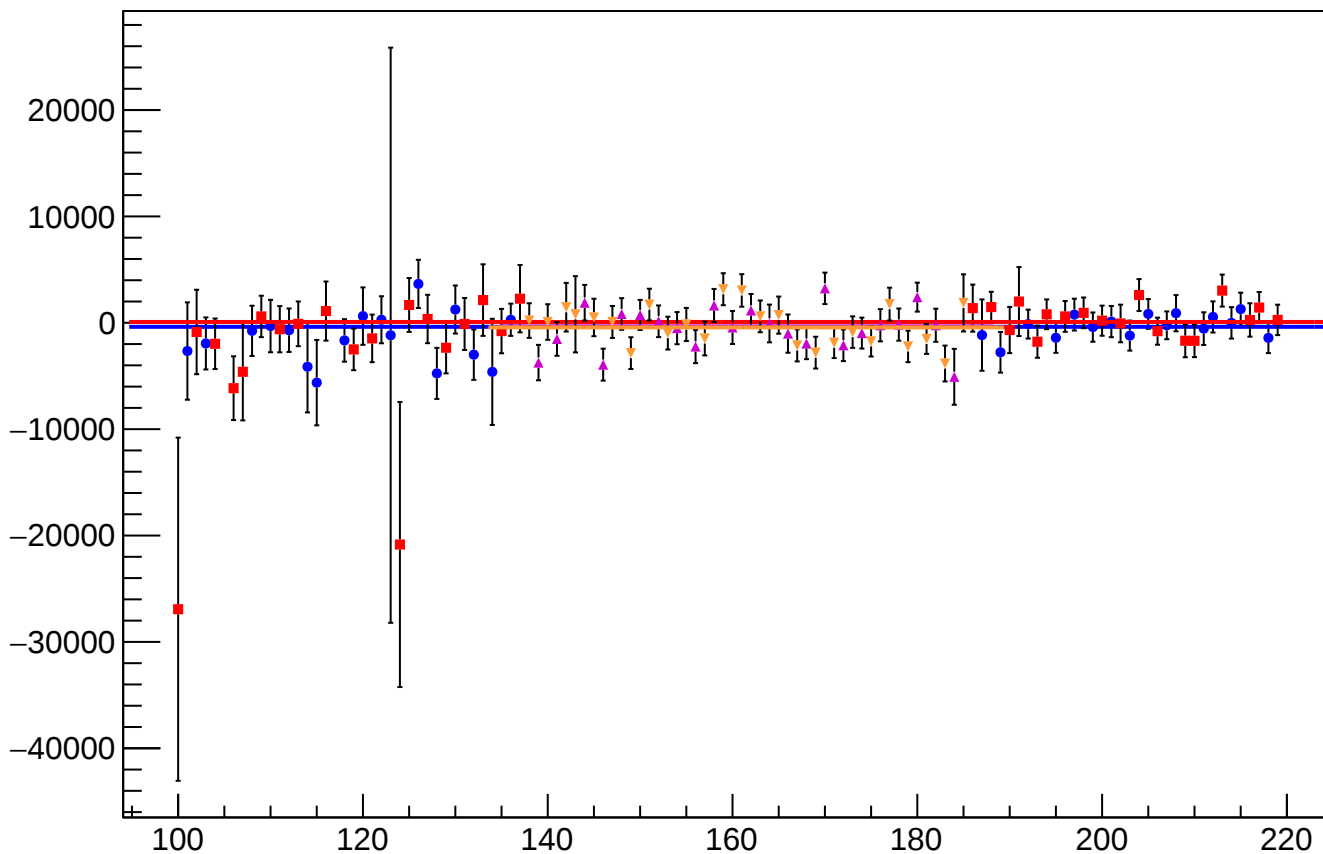
Right: 4412.323 $\pm$ 0.553 χ^2/NDF : 10517404.4/69

In: 4813.381 $\pm$ 0.598 χ^2/NDF : 6036058.4/55

Out: 4657.346 $\pm$ 0.569 χ^2/NDF : 7700596.6/61

All: 4731.482 $\pm$ 0.412 χ^2/NDF : 13772365.7/131

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -378.614 $\pm$ 320.002 χ^2 /NDF: 19.7/32

Left Out: -431.715 $\pm$ 320.540 χ^2 /NDF:33.1/24

Right Out: 77.915 $\pm$ 312.531 χ^2 /NDF: 31.1/36

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

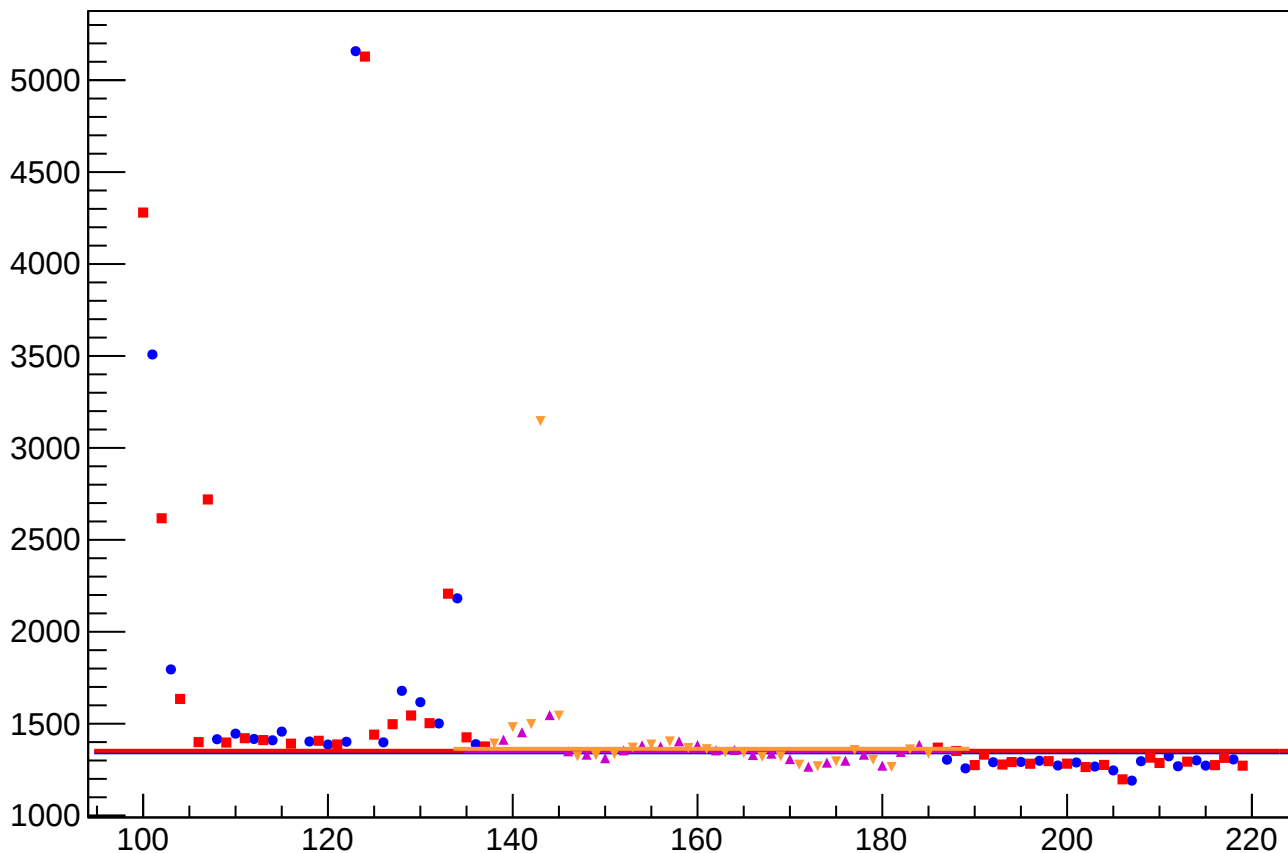
Right: -144.958 $\pm$ 223.587 χ^2 /NDF: 51.8/69

In: -361.412 $\pm$ 227.804 χ^2 /NDF:53.5/55

Out: -170.454 $\pm$ 223.771 χ^2 /NDF:65.5/61

All: -264.227 $\pm$ 159.637 χ^2 /NDF: 119.3/117

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1344.470+/-0.226 χ^2/NDF : 783228.8/32

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1352.862+/-0.221 χ^2/NDF : 889458.3/36

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

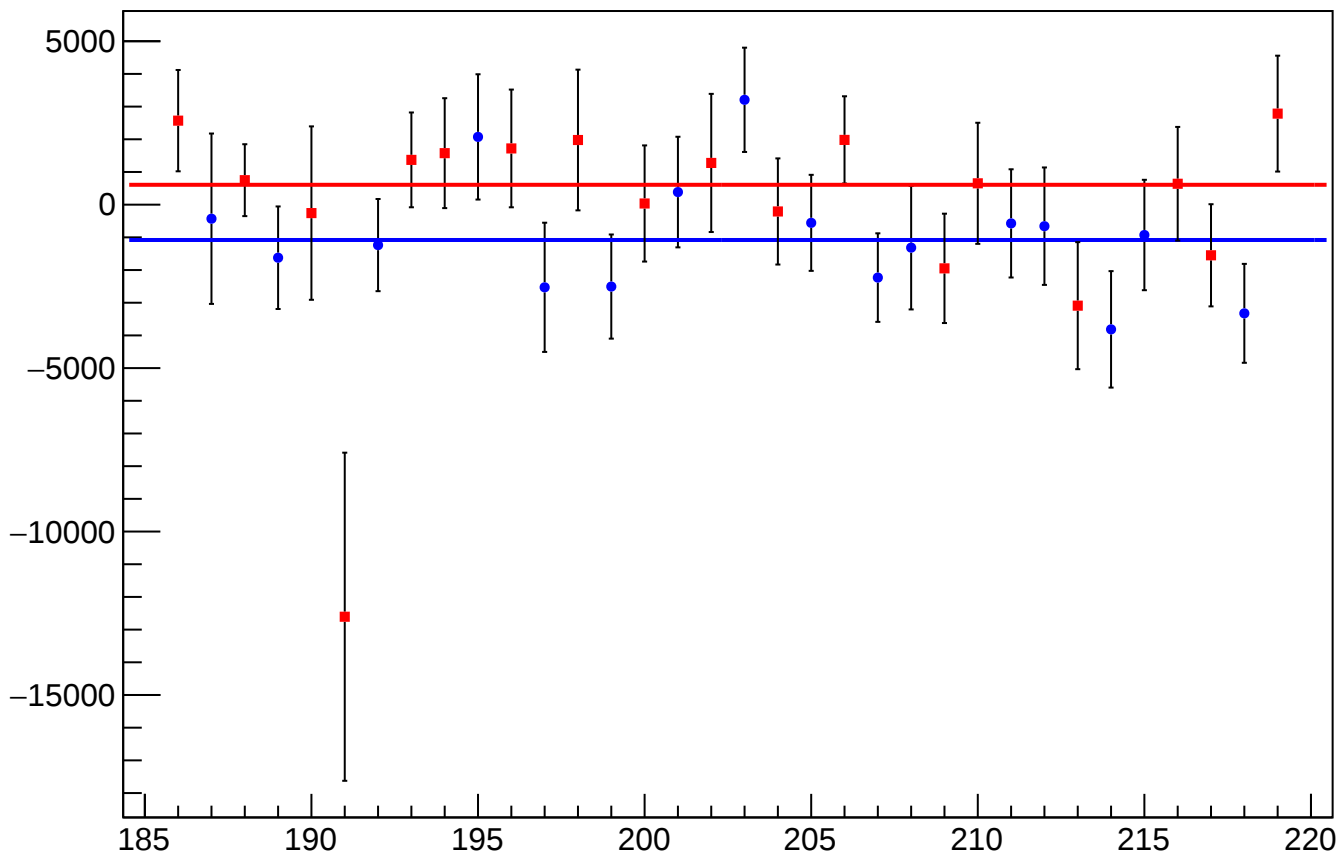
Right: 1348.765+/-0.158 χ^2/NDF : 1673391.1/69

In: 1347.646+/-0.161 χ^2/NDF : 850772.7/55

Out: 1358.076+/-0.158 χ^2/NDF : 1465827.3/61

All: 1352.954+/-0.113 χ^2/NDF : 2318733.9/111

asym_atl_avg_atr_avg_dd_correction_mean vs Slug, Sign Corrected



Right In: -1080.809 ± 415.680 χ^2/NDF : 17.8/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 0.0/0

Right Out: 607.770 ± 400.571 χ^2/NDF : 20.9/17

Left In: 0.000 ± 0.000 χ^2/NDF : 0.0/0

Left: 0.000 ± 0.000 χ^2/NDF : 0.0/0

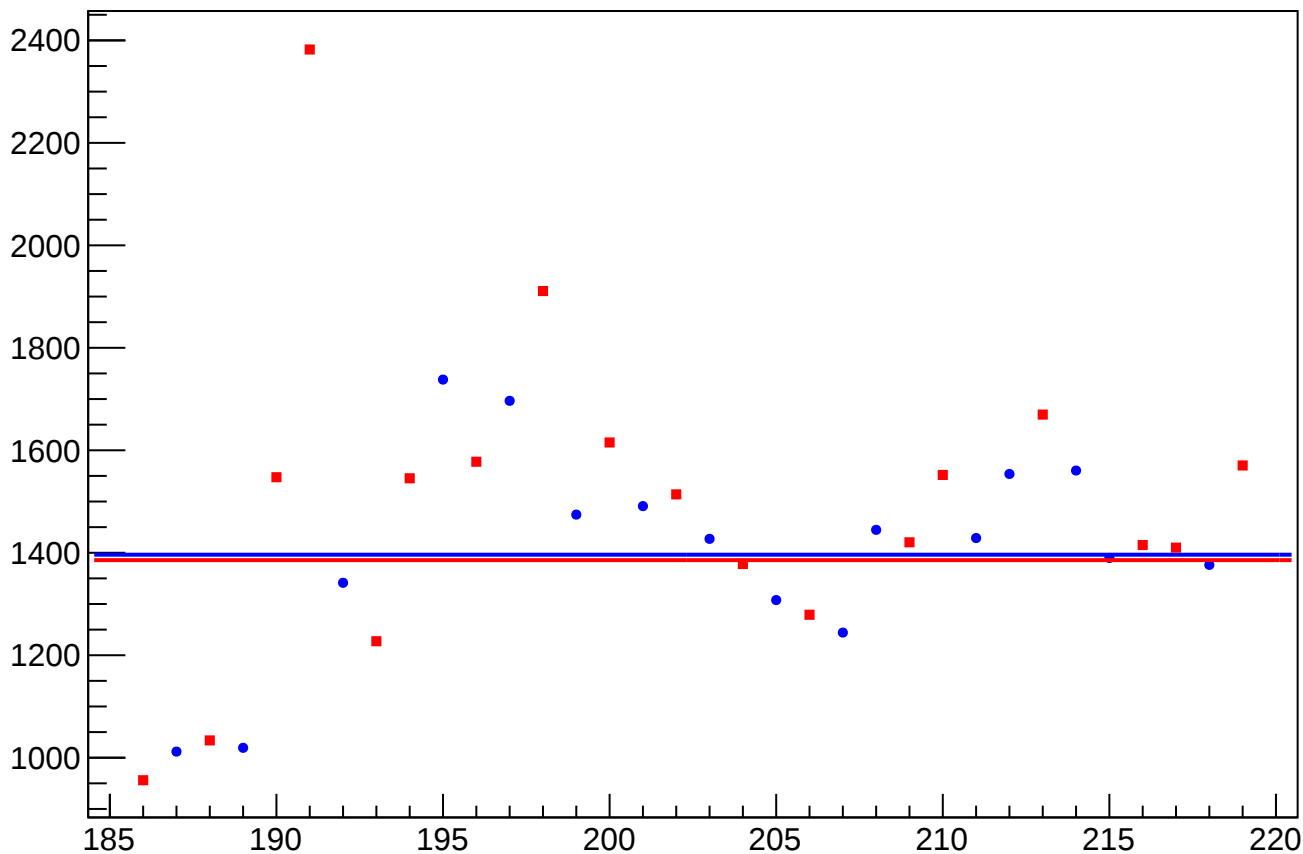
Right: -205.275 ± 288.440 χ^2/NDF : 47.3/33

In: -1080.809 ± 415.680 χ^2/NDF : 17.8/15

Out: 0.000 ± 0.000 χ^2/NDF : 0.0/0

All: -205.275 ± 288.440 χ^2/NDF : 47.3/33

asym_atl_avg_atr_avg_dd_correction_rms vs Slug, Sign Corrected



Right In: 1396.219+/-0.294 χ^2/NDF : 350920.2/15

Left Out: 0.000+/-0.000 χ^2/NDF :0.0/0

Right Out: 1385.636+/-0.283 χ^2/NDF : 764515.3/17

Left In: 0.000+/-0.000 χ^2/NDF :0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

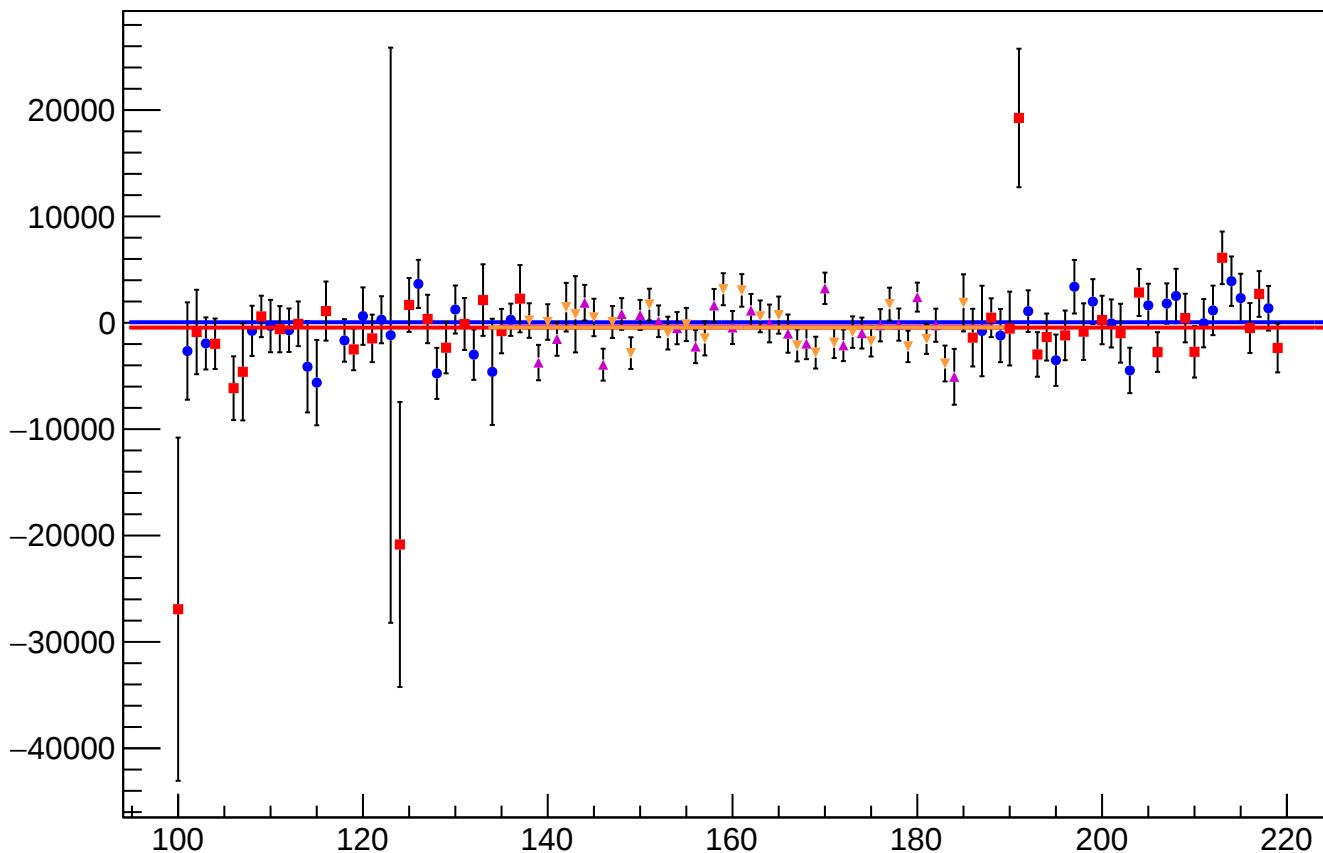
Right: 1390.731+/-0.204 χ^2/NDF : 1116107.7/33

In: 1396.219+/-0.294 χ^2/NDF :350920.2/15

Out: 0.000+/-0.000 χ^2/NDF :0.0/0

All: 1390.731+/-0.204 χ^2/NDF : 1116107.7/33

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: 49.778 ± 414.316 $\chi^2/\text{NDF}: 31.0/32$

Left Out: -431.715 ± 320.540 $\chi^2/\text{NDF}: 33.1/24$

Right Out: -451.069 ± 407.051 $\chi^2/\text{NDF}: 40.7/36$

Left In: -343.737 ± 324.368 $\chi^2/\text{NDF}: 33.8/22$

Left: -388.248 ± 227.997 $\chi^2/\text{NDF}: 66.9/47$

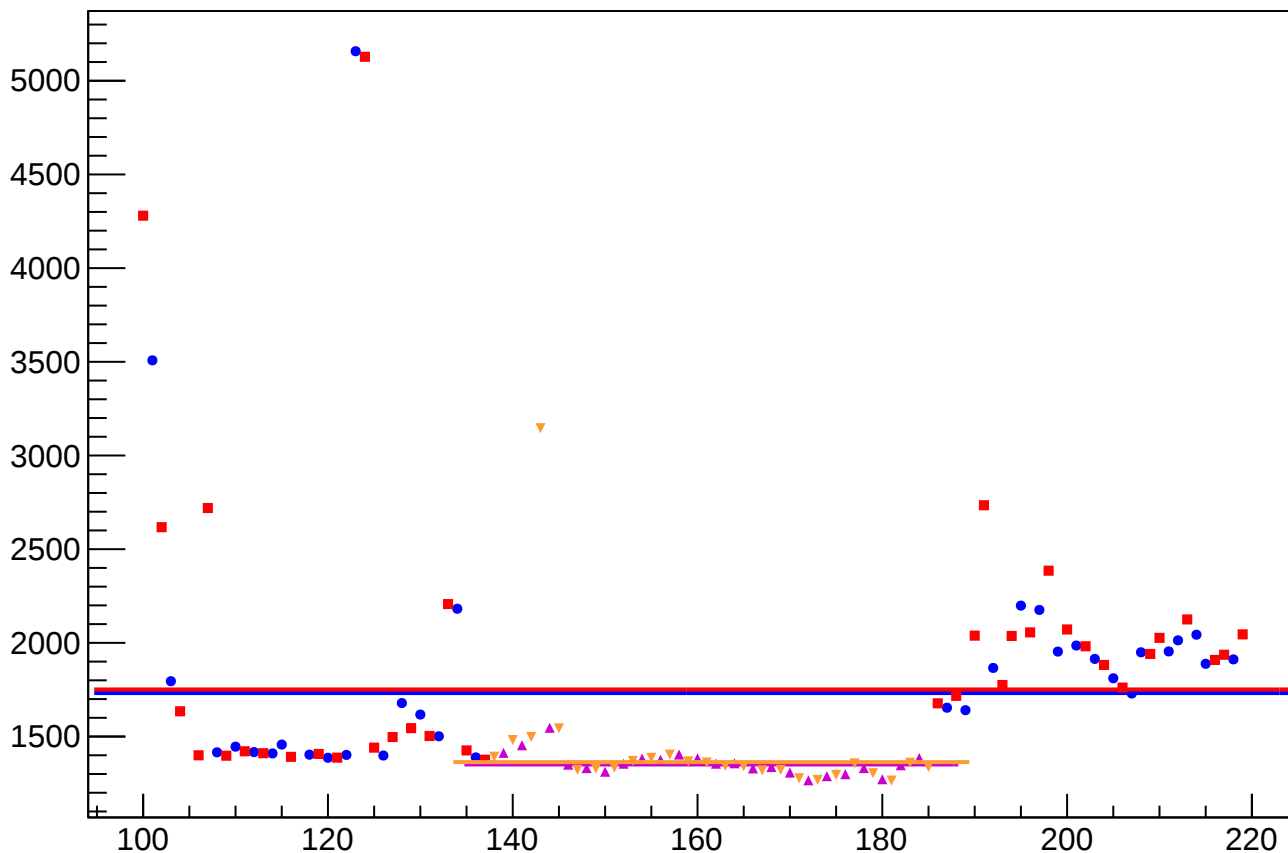
Right: -205.075 ± 290.363 $\chi^2/\text{NDF}: 72.5/69$

In: -194.197 ± 255.406 $\chi^2/\text{NDF}: 65.3/55$

Out: -439.123 ± 251.832 $\chi^2/\text{NDF}: 73.8/61$

All: -318.385 ± 179.322 $\chi^2/\text{NDF}: 139.6/117$

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1732.048+/-0.293 χ^2/NDF : 1121894.0/32

Left Out: 1363.561+/-0.227 χ^2/NDF : 575226.6/24

Right Out: 1751.263+/-0.288 χ^2/NDF : 1354887.0/36

Left In: 1350.909+/-0.229 χ^2/NDF : 67144.5/22

Left: 1357.310+/-0.161 χ^2/NDF : 643910.7/47

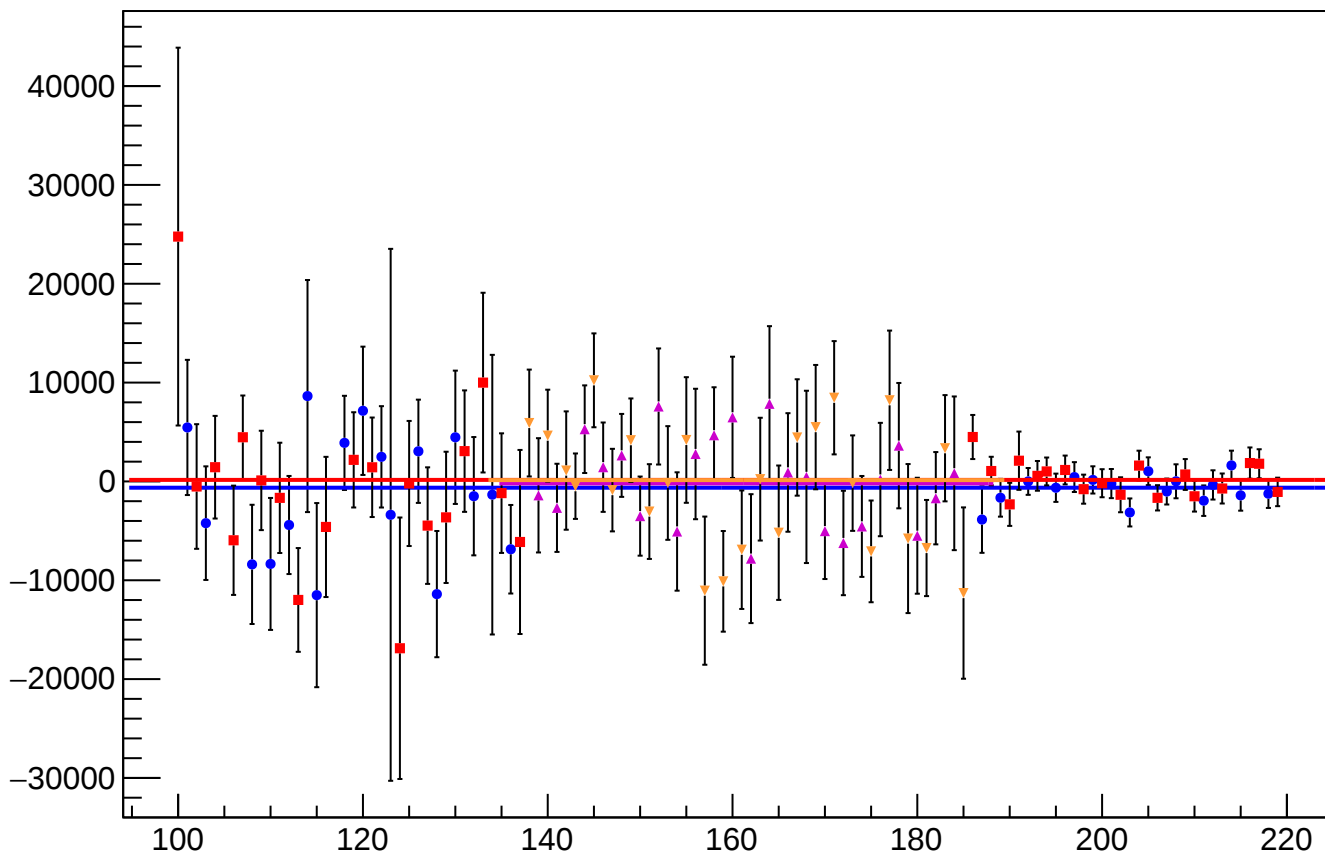
Right: 1741.826+/-0.205 χ^2/NDF : 2478970.0/69

In: 1495.746+/-0.181 χ^2/NDF : 2238381.7/55

Out: 1511.958+/-0.178 χ^2/NDF : 3050035.7/61

All: 1503.966+/-0.127 χ^2/NDF : 5292503.0/11

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -635.674+/-367.557 χ^2/NDF : 25.9/32

Left Out: 132.142+/-1065.543 χ^2/NDF :28.1/24

Right Out: 154.313+/-355.975 χ^2/NDF : 30.3/36

Left In: -200.182+/-1123.499 χ^2/NDF :14.7/22

Left: -25.227+/-773.130 χ^2/NDF : 42.9/47

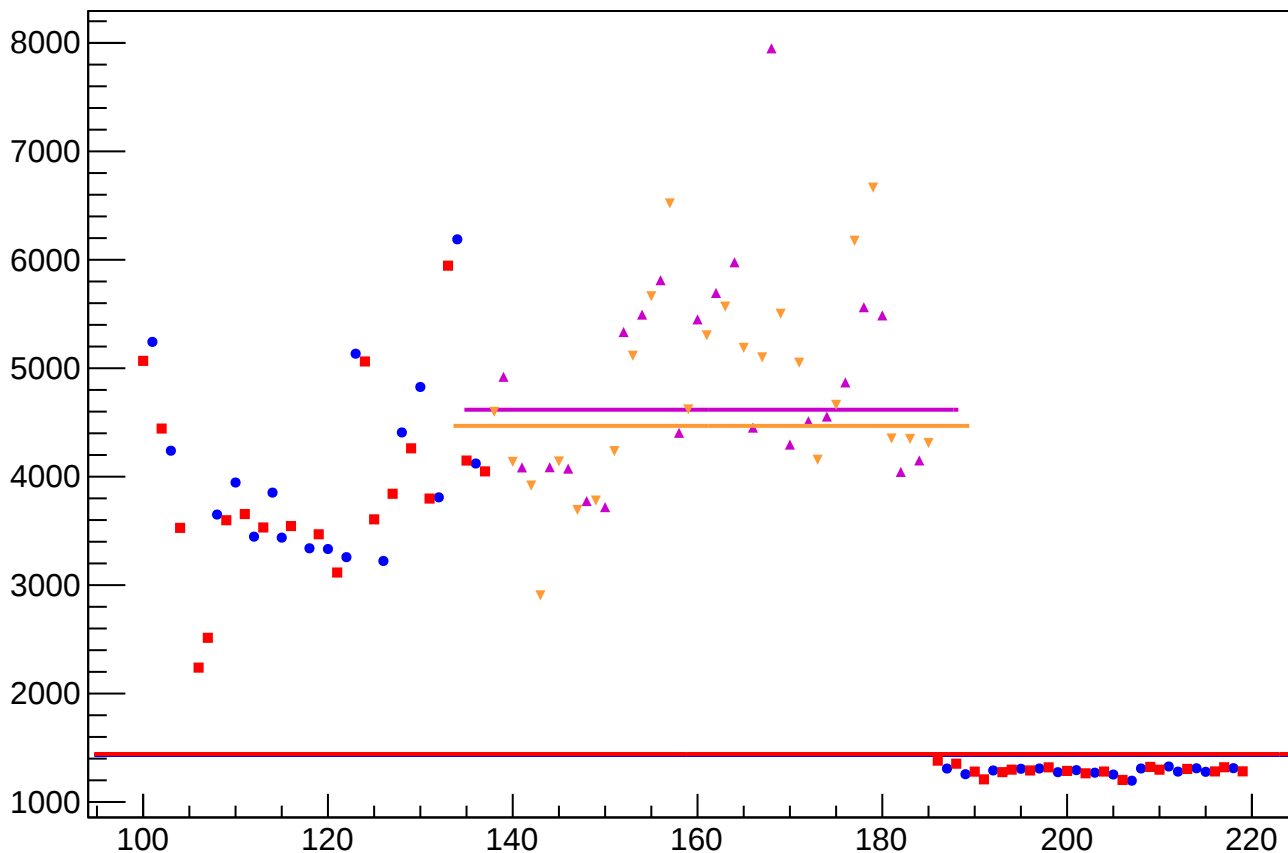
Right: -228.038+/-255.709 χ^2/NDF : 58.6/69

In: -593.570+/-349.337 χ^2/NDF :40.8/55

Out: 152.087+/-337.632 χ^2/NDF :58.4/61

All: -208.040+/-242.775 χ^2/NDF : 101.6/117

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1433.545+/-0.260

χ^2/NDF : 5707264.1/32

Left Out: 4468.520+/-0.753

χ^2/NDF : 1380601.0/24

Right Out: 1442.718+/-0.252

χ^2/NDF : 5553591.2/36

Left In: 4617.293+/-0.794

χ^2/NDF : 999599.8/22

Left: 4538.970+/-0.547 χ^2/NDF : 2398663.8/47

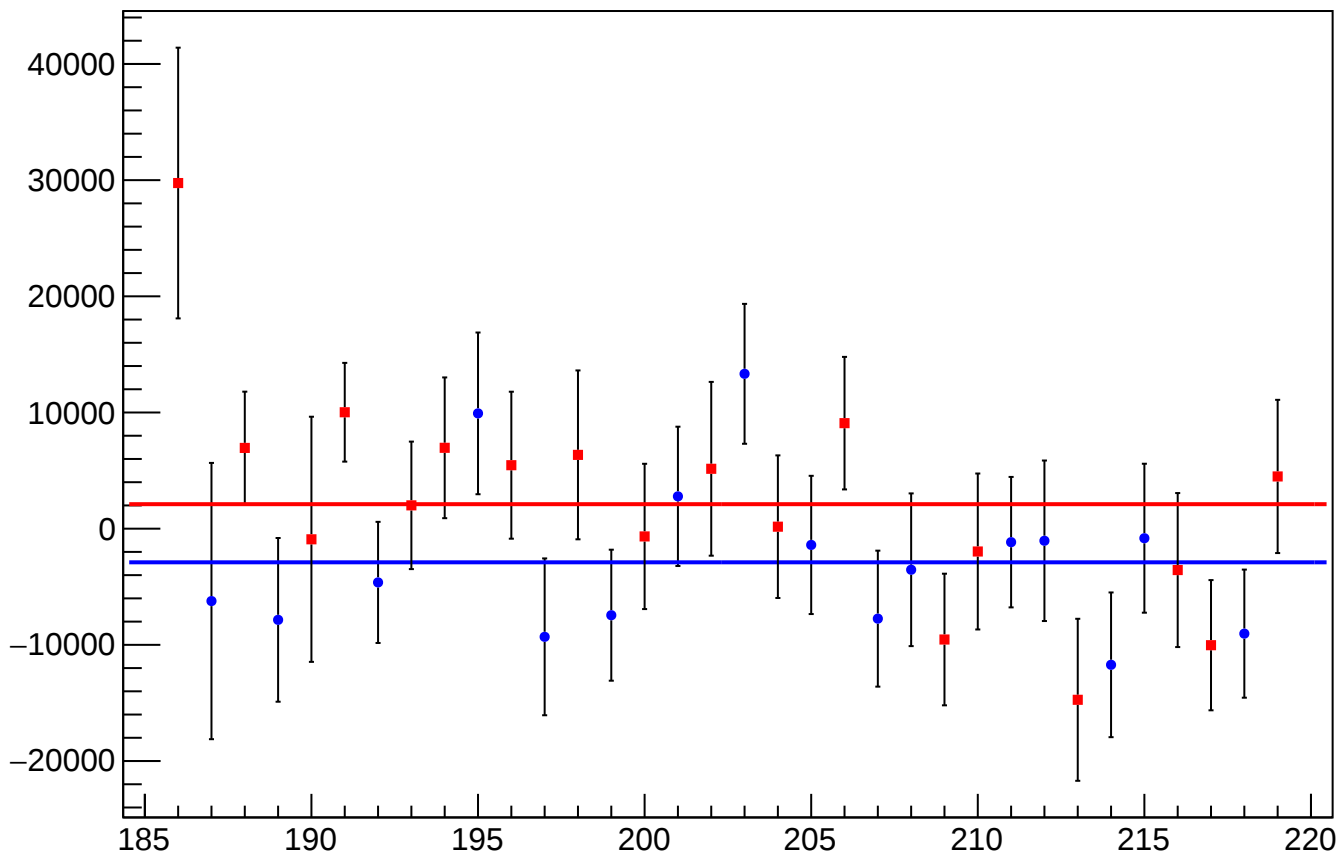
Right: 1438.281+/-0.181 χ^2/NDF : 11261498.5/69

In: 1741.354+/-0.247 χ^2/NDF : 21214700.7/55

Out: 1746.181+/-0.239 χ^2/NDF : 21444310.0/61

All: 1743.851+/-0.172 χ^2/NDF : 42659208.2/131

asym_atl_dd_atr_dd_avg_correction_mean vs Slug, Sign Corrected



Right In: -2895.867+/-1562.239 χ^2/NDF : 18.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 2108.431+/-1457.121 χ^2/NDF : 29.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

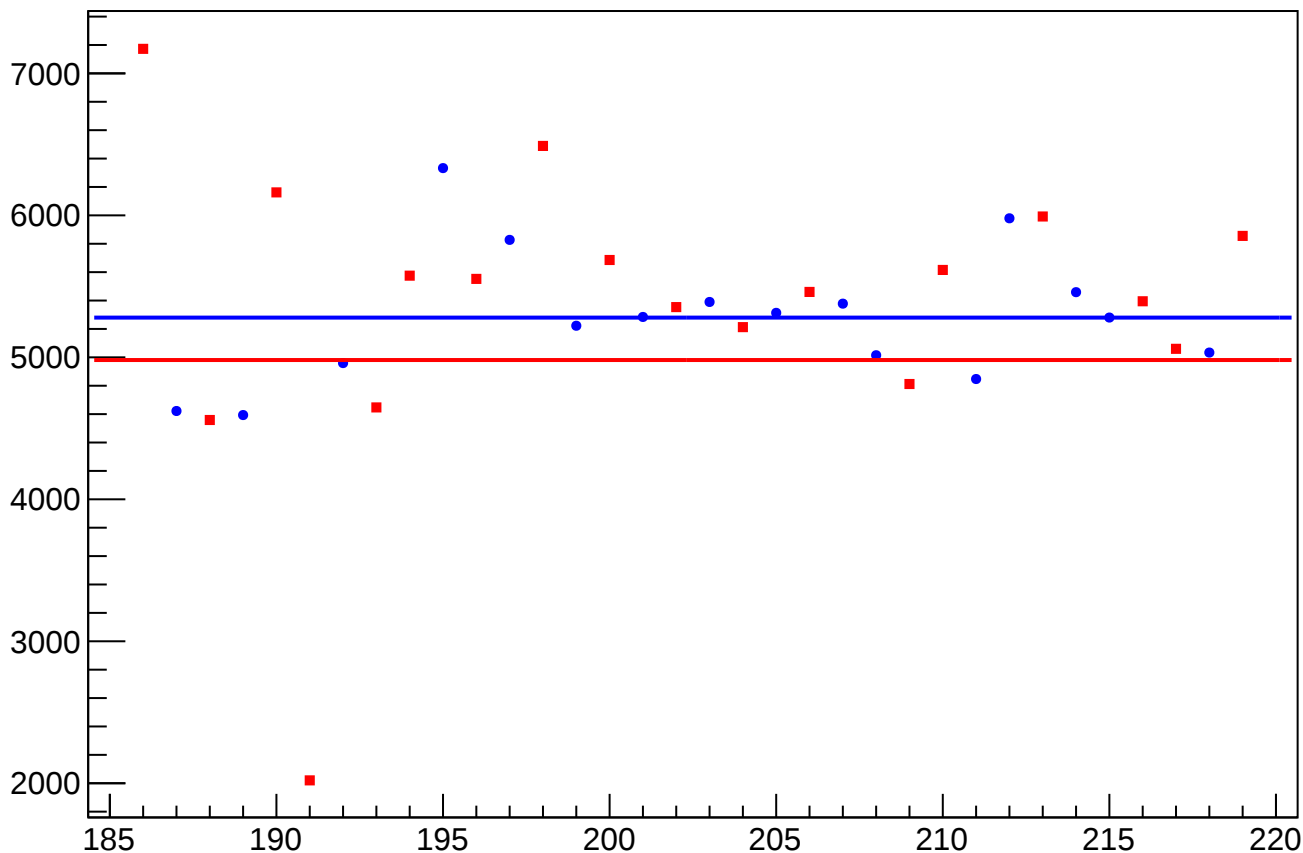
Right: -219.706+/-1065.565 χ^2/NDF : 52.9/33

In: -2895.867+/-1562.239 χ^2/NDF : 18.1/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -219.706+/-1065.565 χ^2/NDF : 52.9/33

asym_atl_dd_atr_dd_avg_correction_rms vs Slug, Sign Corrected



Right In: 5279.854+/-1.105 χ^2/NDF : 134370.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 4980.991+/-1.030 χ^2/NDF : 1363189.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

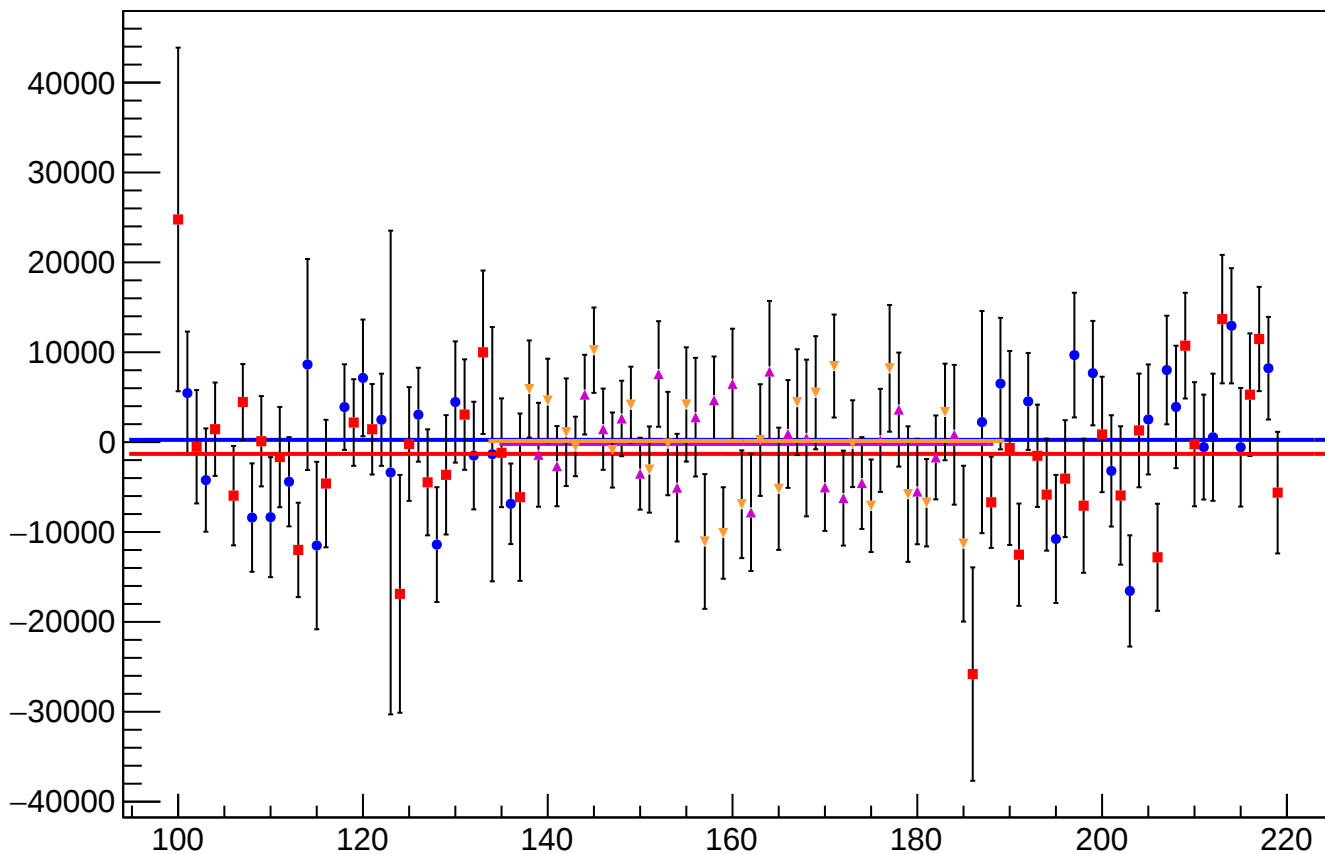
Right: 5120.031+/-0.753 χ^2/NDF : 1536703.0/33

In: 5279.854+/-1.105 χ^2/NDF : 134370.7/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 5120.031+/-0.753 χ^2/NDF : 1536703.0/33

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: 252.949 $\pm$ 1104.892 χ^2 /NDF: 39.4/32

Left Out: 132.142 $\pm$ 1065.543 χ^2 /NDF:28.1/24

Right Out: -1307.215 $\pm$ 1029.155 χ^2 /NDF: 43.9/36

Left In: -200.182 $\pm$ 1123.499 χ^2 /NDF:14.7/22

Left: -25.227 $\pm$ 773.130 χ^2 /NDF: 42.9/47

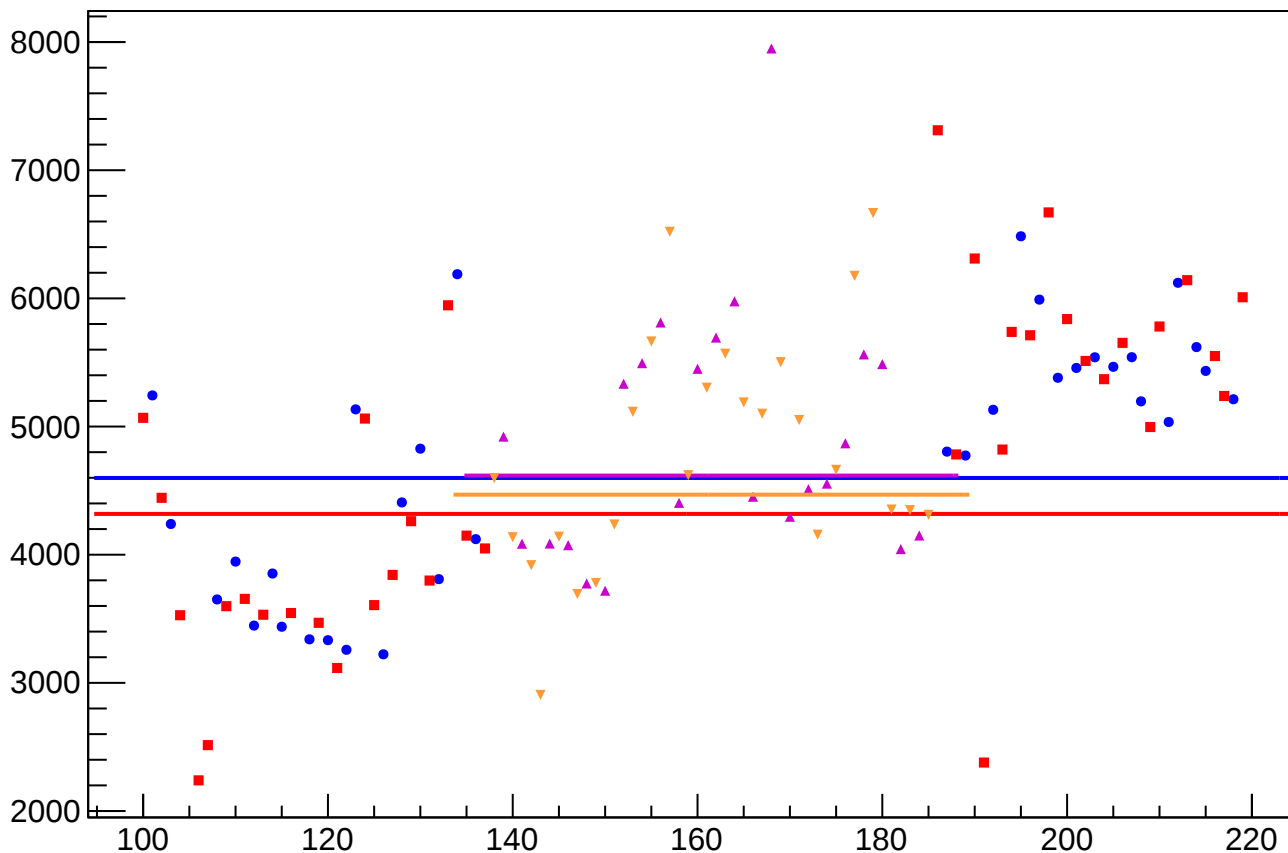
Right: -582.433 $\pm$ 753.075 χ^2 /NDF: 84.4/69

In: 30.167 $\pm$ 787.773 χ^2 /NDF:54.2/55

Out: -612.533 $\pm$ 740.252 χ^2 /NDF:73.0/61

All: -311.151 $\pm$ 539.455 χ^2 /NDF: 127.5/117

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 4598.813 $\pm$ 0.781 χ^2 /NDF: 1497143.1/32

Left Out: 4468.520 $\pm$ 0.753 χ^2 /NDF:1380601.0/24

Right Out: 4318.301 $\pm$ 0.724 χ^2 /NDF: 2879902.2/36

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

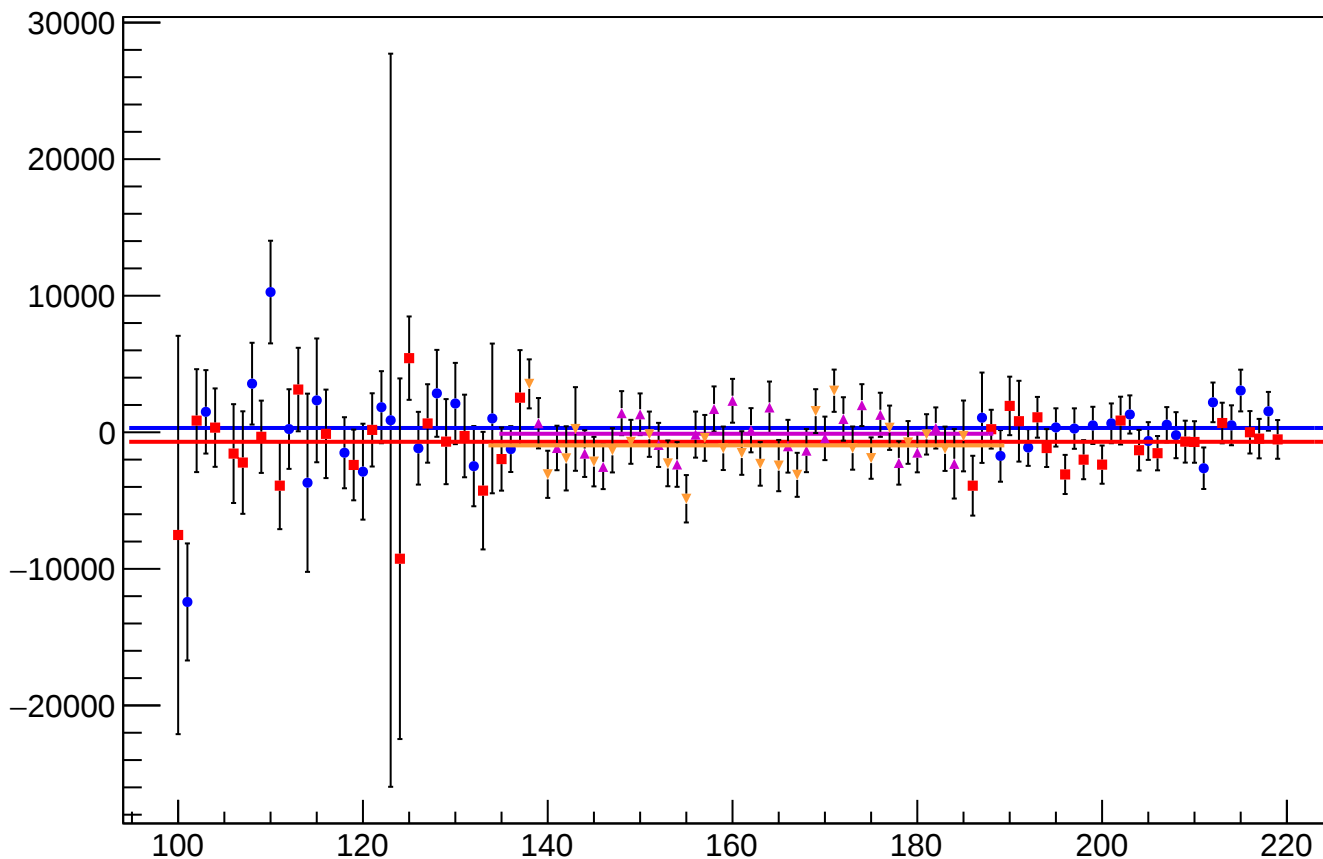
Right: 4447.902 $\pm$ 0.531 χ^2 /NDF: 4446399.7/69

In: 4607.898 $\pm$ 0.557 χ^2 /NDF:2497018.1/55

Out: 4390.418 $\pm$ 0.522 χ^2 /NDF:4281170.1/61

All: 4492.114 $\pm$ 0.381 χ^2 /NDF: 6859341.2/111

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 315.840 ± 334.177 χ^2/NDF : 35.4/32

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: -695.818 ± 325.305 χ^2/NDF : 23.9/36

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

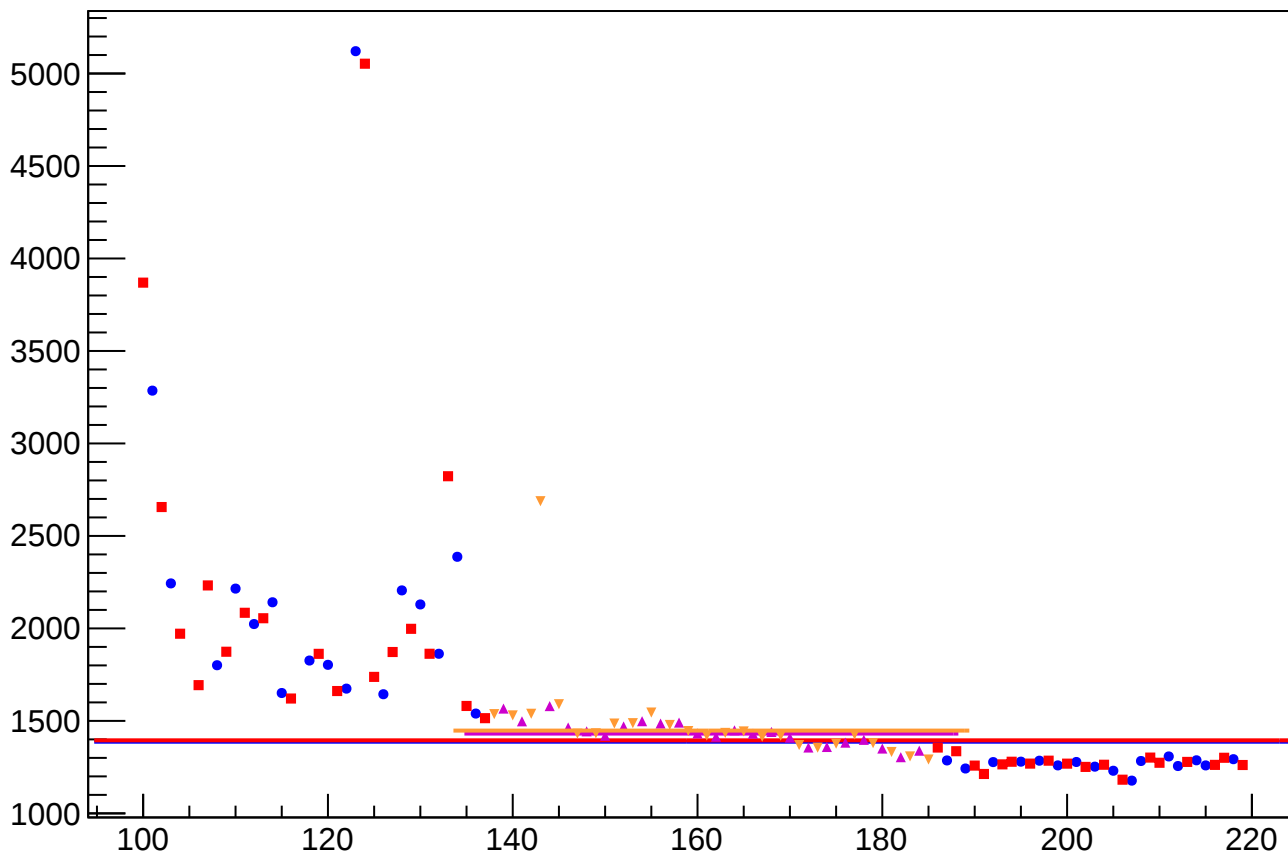
Right: -203.596 ± 233.099 χ^2/NDF : 64.0/69

In: 110.087 ± 239.582 χ^2/NDF : 55.7/55

Out: -821.511 ± 234.882 χ^2/NDF : 52.7/61

All: -364.939 ± 167.724 χ^2/NDF : 116.1/117

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1387.476 $\pm$ 0.236 χ^2 /NDF: 1608161.1/32

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF:419254.7/24

Right Out: 1394.936 $\pm$ 0.230 χ^2 /NDF: 1667204.3/36

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

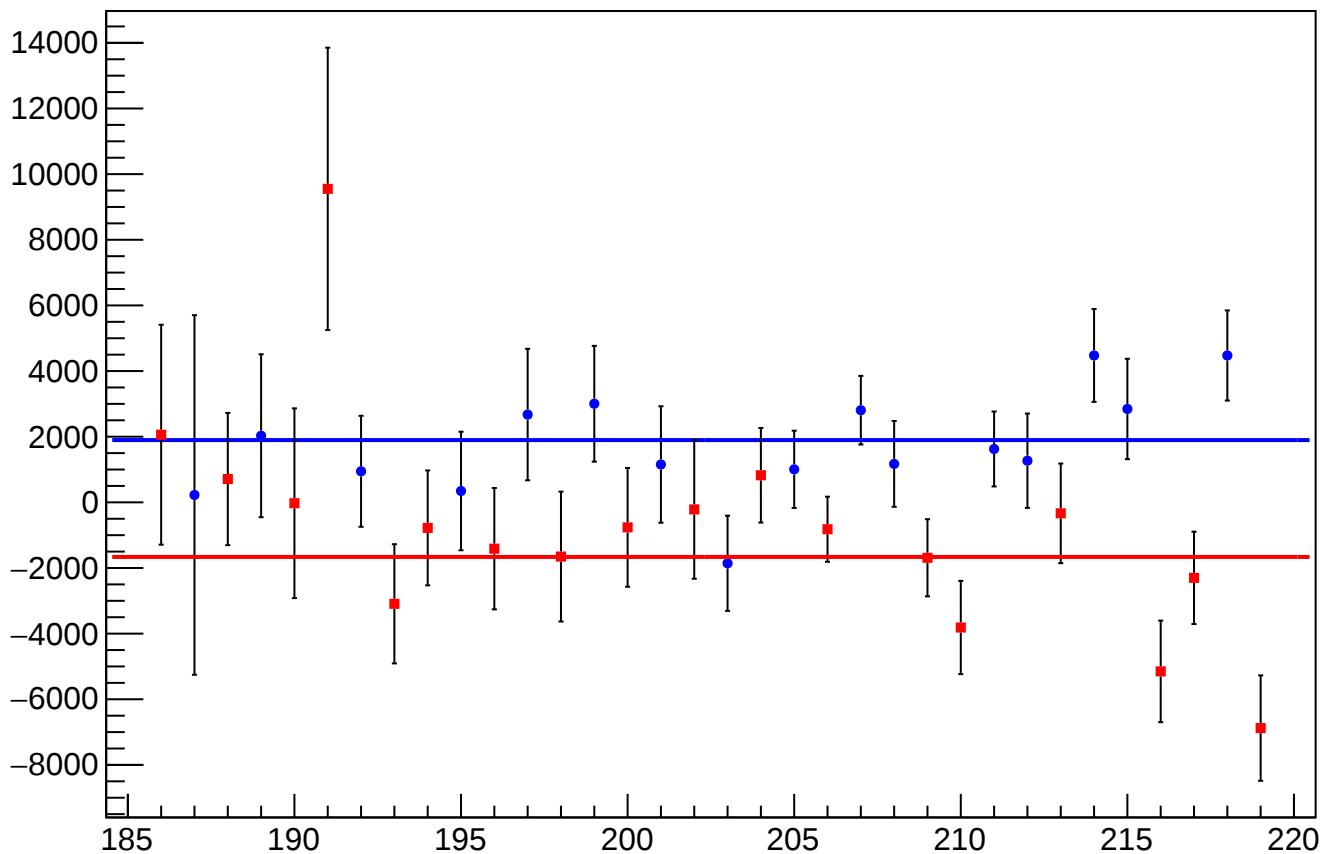
Right: 1391.306 $\pm$ 0.165 χ^2 /NDF: 3275877.0/69

In: 1408.851 $\pm$ 0.169 χ^2 /NDF:1700126.7/55

Out: 1420.122 $\pm$ 0.166 χ^2 /NDF:2111506.4/61

All: 1414.598 $\pm$ 0.119 χ^2 /NDF: 3813890.3/111

asym_atl_dd_atr_dd_dd_correction_mean vs Slug, Sign Corrected



Right In: 1897.098+/-374.050 χ^2/NDF : 17.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -1663.563+/-386.983 χ^2/NDF : 33.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

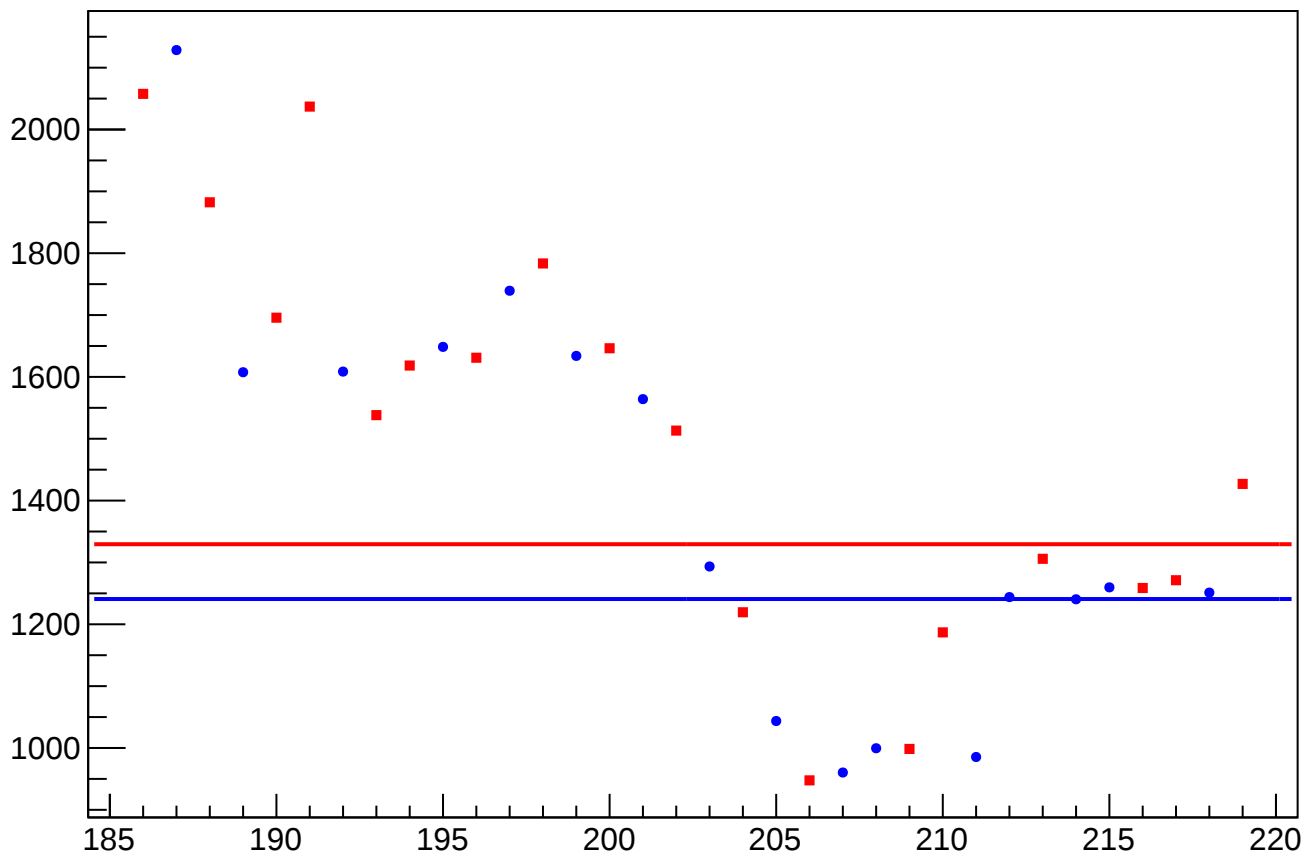
Right: 177.260+/-268.949 χ^2/NDF : 95.4/33

In: 1897.098+/-374.050 χ^2/NDF : 17.7/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 177.260+/-268.949 χ^2/NDF : 95.4/33

asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



Right In: 1240.854+/-0.264 χ^2/NDF : 953746.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 1329.469+/-0.274 χ^2/NDF : 1149213.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

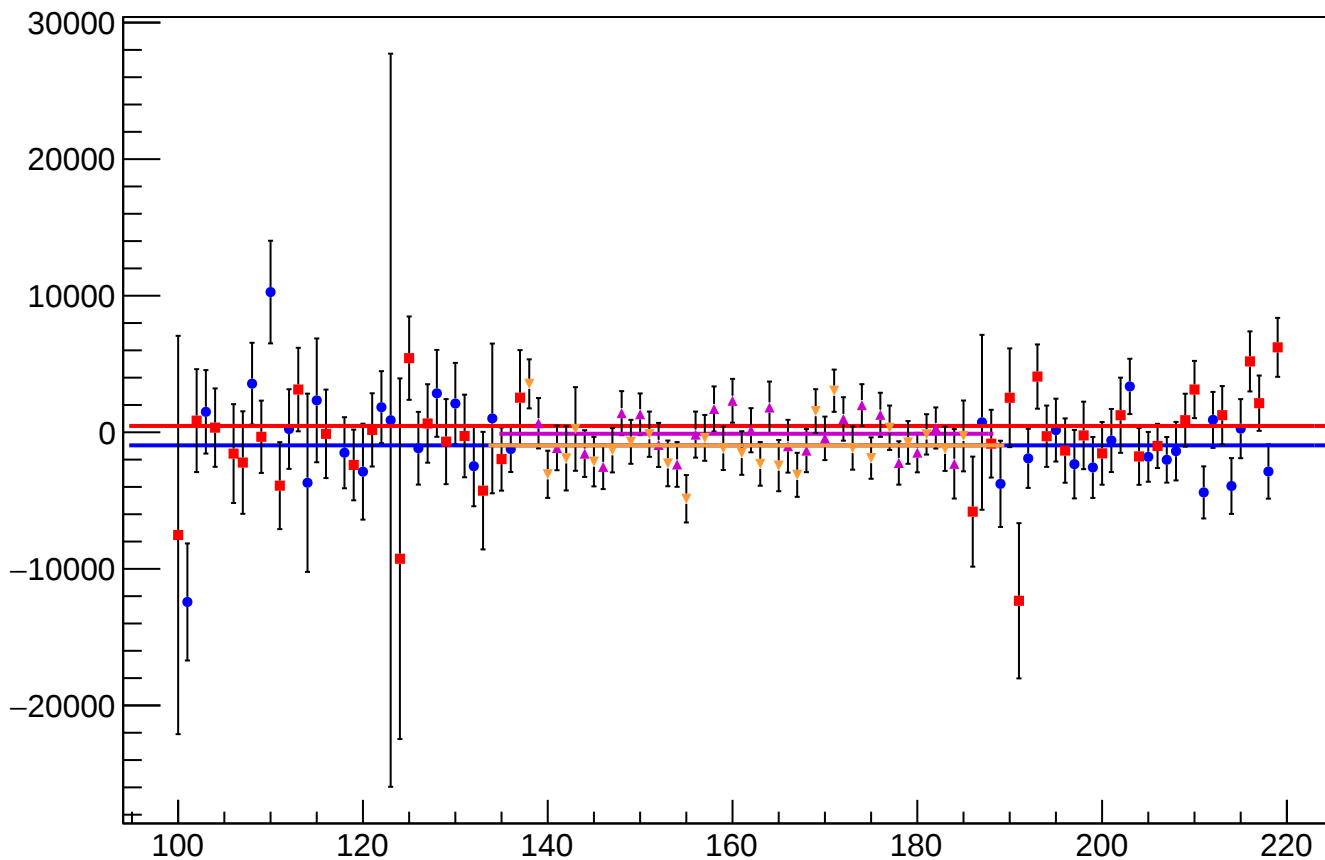
Right: 1283.656+/-0.190 χ^2/NDF : 2157177.3/33

In: 1240.854+/-0.264 χ^2/NDF : 953746.5/15

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 1283.656+/-0.190 χ^2/NDF : 2157177.3/33

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: -956.878 ± 439.447 χ^2/NDF : 39.1/32

Left Out: -958.410 ± 339.496 χ^2/NDF : 28.5/24

Right Out: 464.772 ± 437.931 χ^2/NDF : 39.4/36

Left In: -107.512 ± 343.663 χ^2/NDF : 19.5/22

Left: -538.150 ± 241.520 χ^2/NDF : 51.1/47

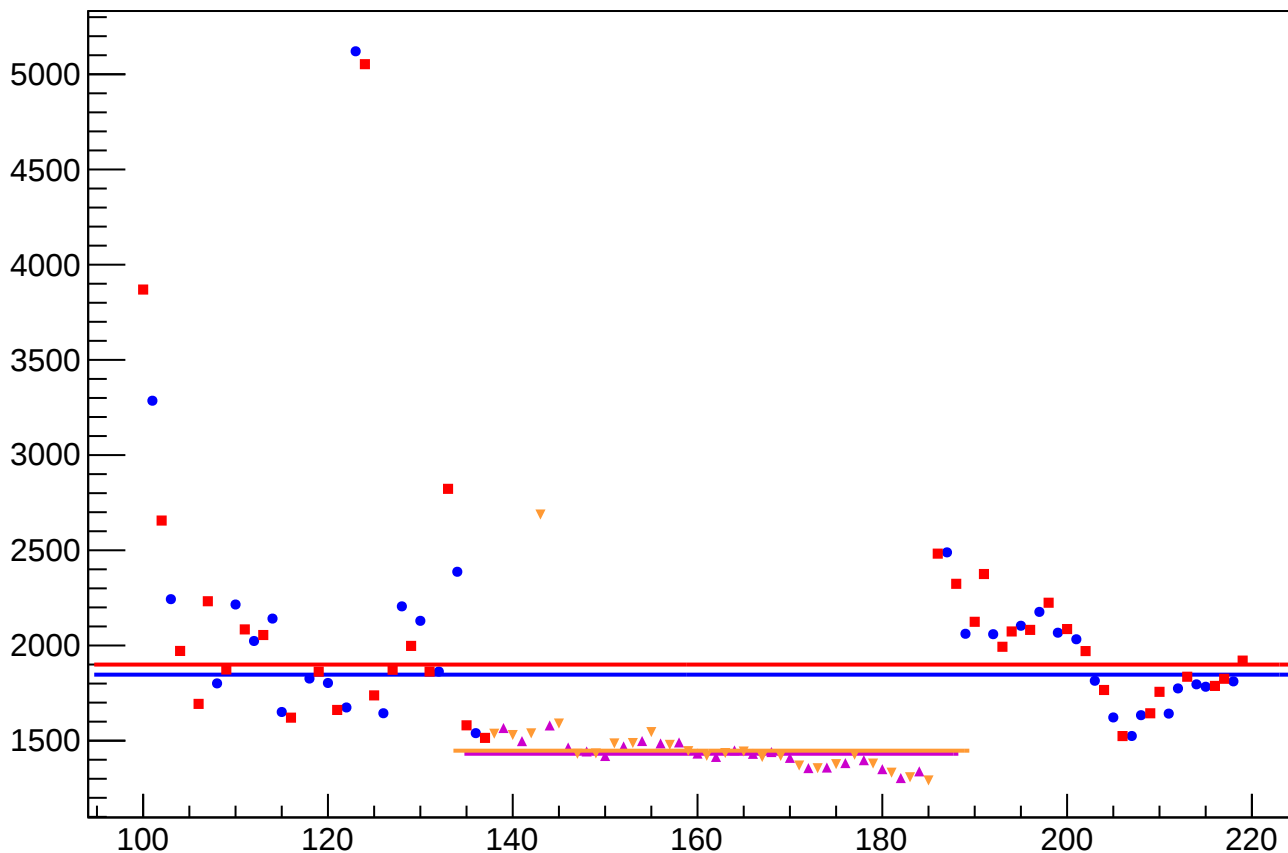
Right: -243.596 ± 310.198 χ^2/NDF : 83.8/69

In: -429.838 ± 270.712 χ^2/NDF : 60.8/55

Out: -424.173 ± 268.313 χ^2/NDF : 74.6/61

All: -426.980 ± 190.568 χ^2/NDF : 135.4/117

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1846.838 $\pm$ 0.311 χ^2 /NDF: 768869.4/32

Left Out: 1447.554 $\pm$ 0.240 χ^2 /NDF: 419254.7/24

Right Out: 1899.760 $\pm$ 0.310 χ^2 /NDF: 828525.4/36

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

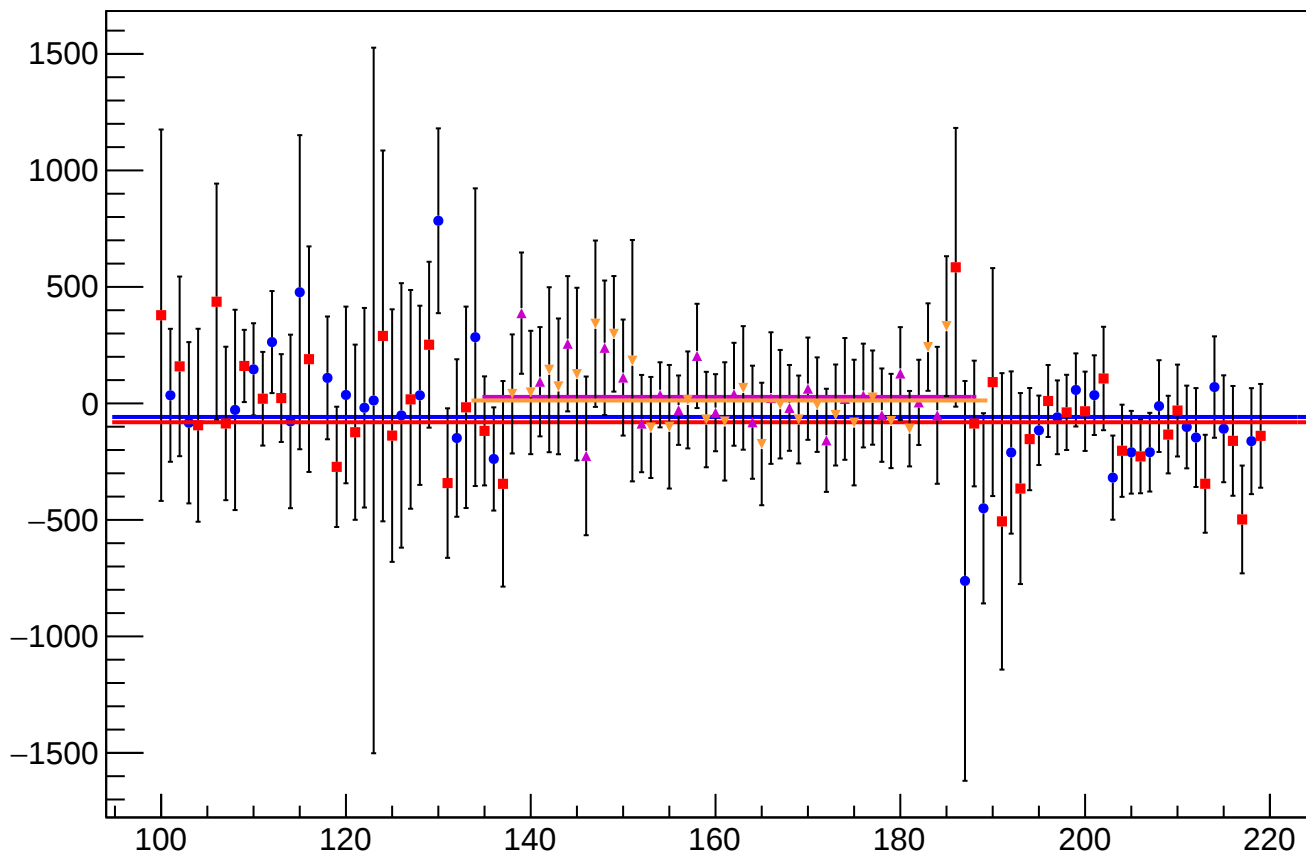
Right: 1873.391 $\pm$ 0.219 χ^2 /NDF: 1611948.5/69

In: 1589.089 $\pm$ 0.191 χ^2 /NDF: 1952823.2/55

Out: 1617.306 $\pm$ 0.190 χ^2 /NDF: 2579798.0/61

All: 1603.323 $\pm$ 0.135 χ^2 /NDF: 4543582.2/111

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.199 ± 41.930 $\chi^2/\text{NDF}: 17.3/32$

Left Out: 12.618 ± 47.486 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -80.794 ± 40.971 $\chi^2/\text{NDF}: 17.9/36$

Left In: 27.921 ± 44.523 $\chi^2/\text{NDF}: 6.5/22$

Left: 20.762 ± 32.480 $\chi^2/\text{NDF}: 14.3/47$

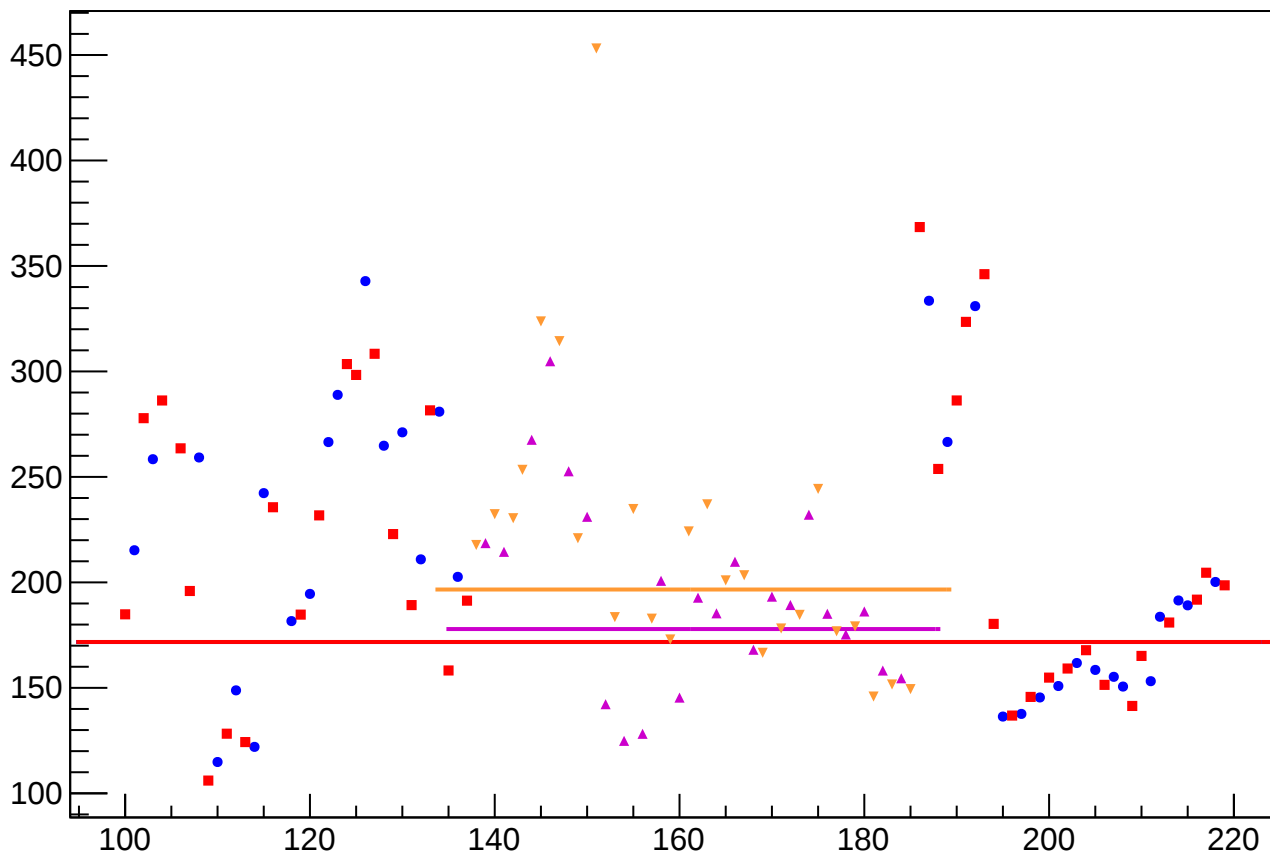
Right: -69.758 ± 29.304 $\chi^2/\text{NDF}: 35.3/69$

In: -17.720 ± 30.525 $\chi^2/\text{NDF}: 25.8/55$

Out: -40.931 ± 31.021 $\chi^2/\text{NDF}: 27.8/61$

All: -29.138 ± 21.757 $\chi^2/\text{NDF}: 53.9/117$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.724 $\pm$ 0.030 χ^2 /NDF: 2202762.0/32

Left Out: 196.620 $\pm$ 0.034 χ^2 /NDF:1793507.9/24

Right Out: 171.751 $\pm$ 0.029 χ^2 /NDF: 2931118.7/36

Left In: 177.878 $\pm$ 0.031 χ^2 /NDF:1644086.7/22

Left: 186.646 $\pm$ 0.023 χ^2 /NDF: 3603390.3/47

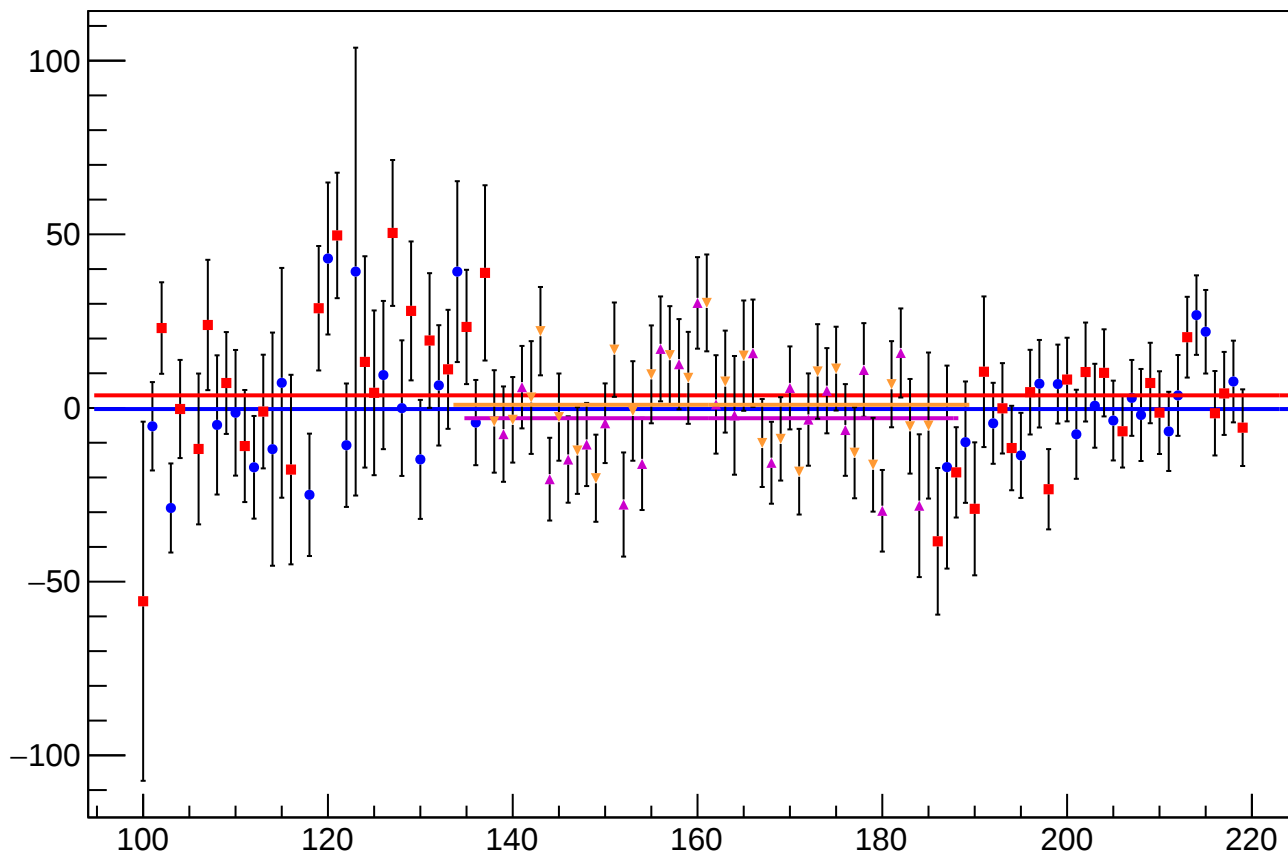
Right: 171.738 $\pm$ 0.021 χ^2 /NDF: 5133881.0/69

In: 174.617 $\pm$ 0.022 χ^2 /NDF:3867095.3/55

Out: 182.363 $\pm$ 0.022 χ^2 /NDF:5039086.1/61

All: 178.428 $\pm$ 0.015 χ^2 /NDF: 8969552.2/117

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.302 ± 2.528 $\chi^2/\text{NDF}: 29.8/32$

Left Out: 0.920 ± 2.696 $\chi^2/\text{NDF}: 24.0/24$

Right Out: 3.643 ± 2.455 $\chi^2/\text{NDF}: 47.9/36$

Left In: -2.941 ± 2.745 $\chi^2/\text{NDF}: 31.0/22$

Left: -0.976 ± 1.923 $\chi^2/\text{NDF}: 56.0/47$

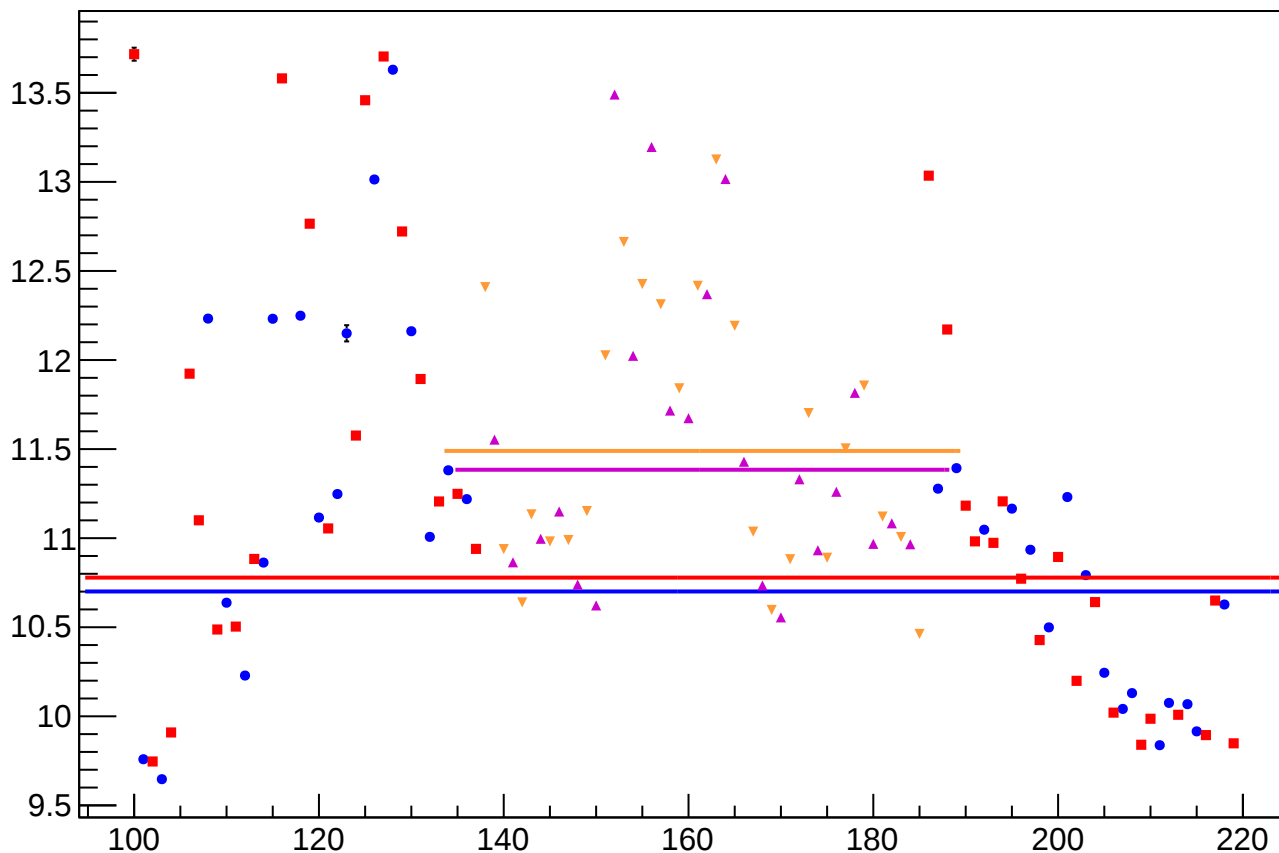
Right: 1.728 ± 1.761 $\chi^2/\text{NDF}: 78.9/69$

In: -1.513 ± 1.859 $\chi^2/\text{NDF}: 61.3/55$

Out: 2.409 ± 1.815 $\chi^2/\text{NDF}: 72.4/61$

All: 0.495 ± 1.299 $\chi^2/\text{NDF}: 136.0/117$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.701 $\pm$ 0.002 χ^2 /NDF: 209763.0/32

Left Out: 11.490 $\pm$ 0.002 χ^2 /NDF:132399.1/24

Right Out: 10.779 $\pm$ 0.002 χ^2 /NDF: 295894.3/36

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

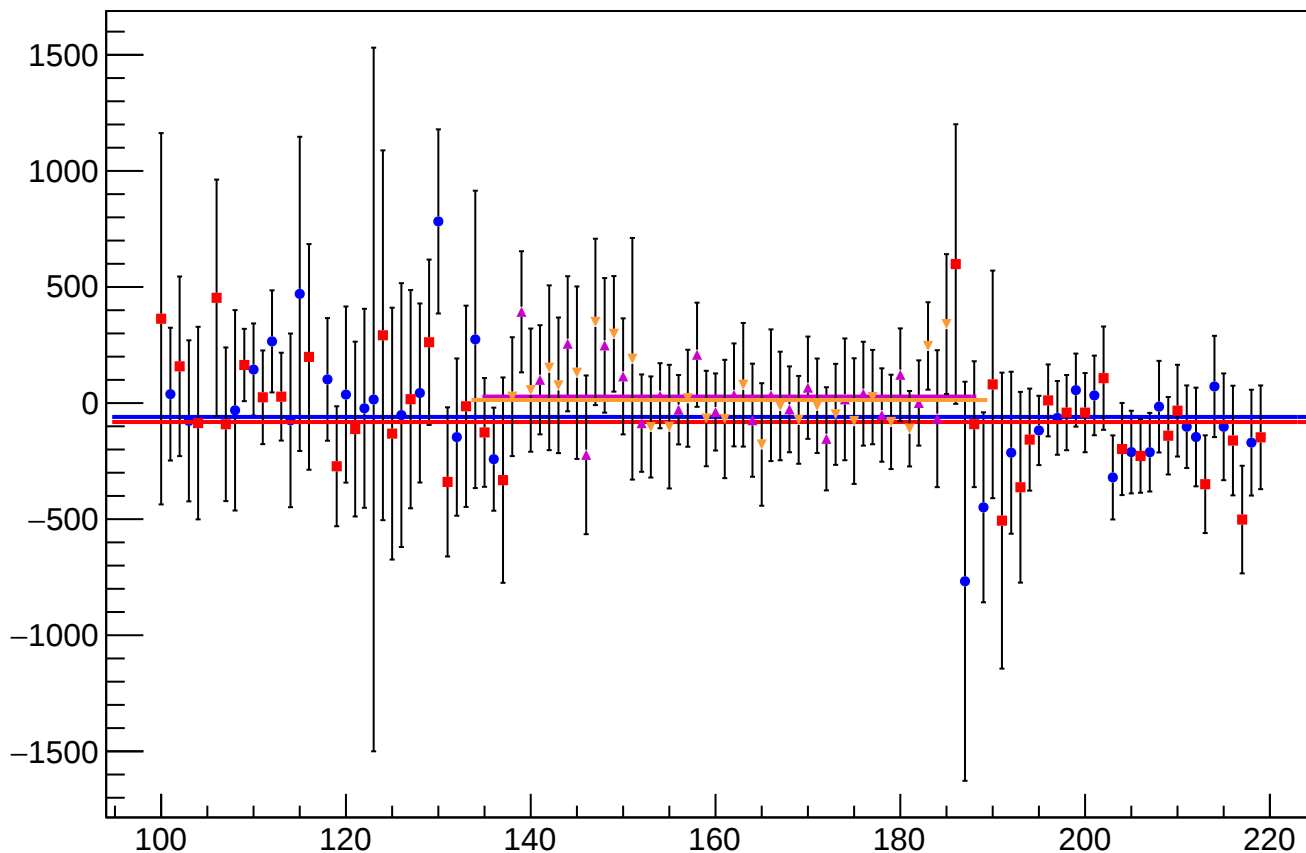
Right: 10.741 $\pm$ 0.001 χ^2 /NDF: 506632.4/69

In: 11.014 $\pm$ 0.001 χ^2 /NDF:426636.6/55

Out: 11.101 $\pm$ 0.001 χ^2 /NDF:504378.9/61

All: 11.059 $\pm$ 0.001 χ^2 /NDF: 933238.1/117

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.632 ± 42.031 χ^2/NDF : 17.3/32

Left Out: 13.323 ± 47.662 χ^2/NDF : 7.9/24

Right Out: -81.555 ± 41.077 χ^2/NDF : 18.1/36

Left In: 28.050 ± 44.681 χ^2/NDF : 6.6/22

Left: 21.161 ± 32.597 χ^2/NDF : 14.6/47

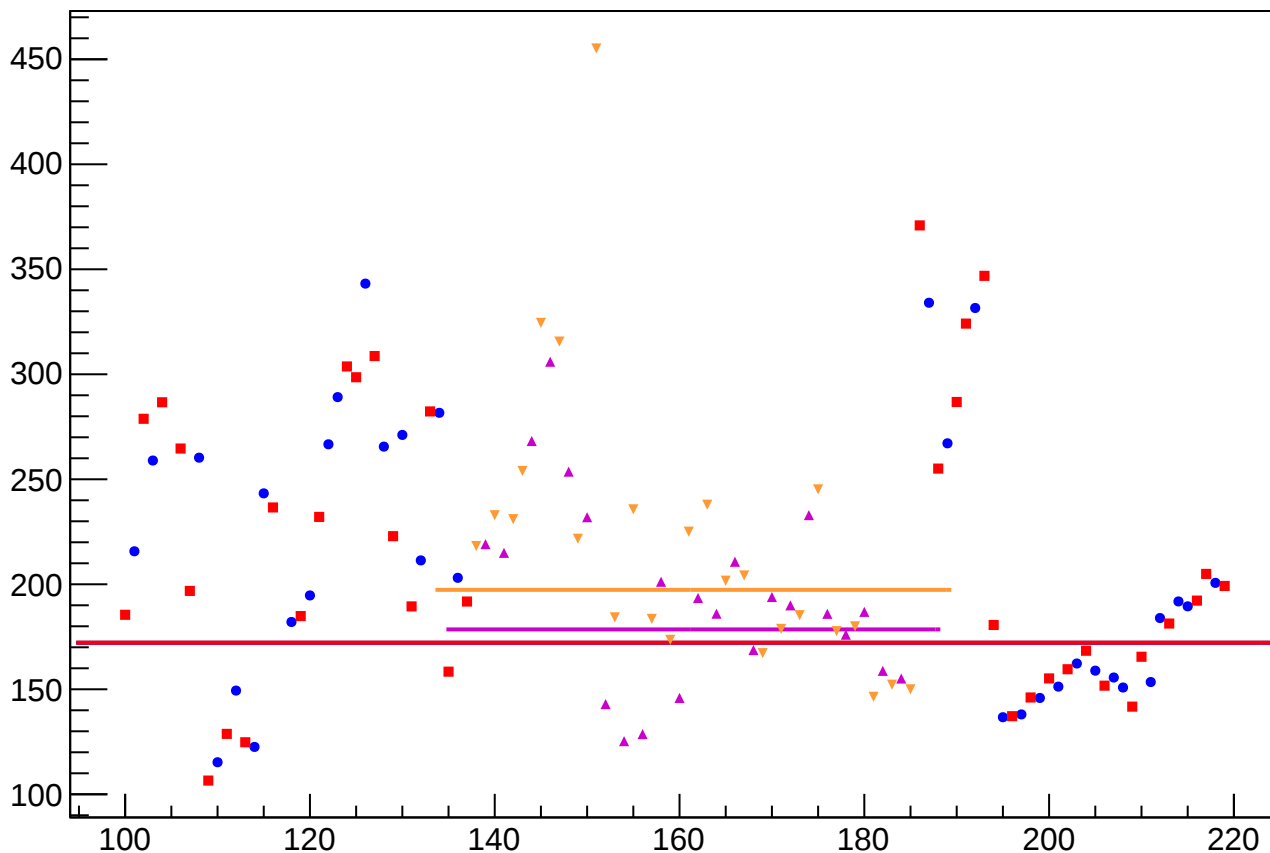
Right: -70.845 ± 29.377 χ^2/NDF : 35.6/69

In: -18.469 ± 30.614 χ^2/NDF : 26.0/55

Out: -41.118 ± 31.115 χ^2/NDF : 28.3/61

All: -29.610 ± 21.823 χ^2/NDF : 54.5/117

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.148 $\pm$ 0.030 χ^2 /NDF: 2197674.8/32

Left Out: 197.355 $\pm$ 0.034 χ^2 /NDF:1790824.5/24

Right Out: 172.204 $\pm$ 0.029 χ^2 /NDF: 2927330.1/36

Left In: 178.512 $\pm$ 0.032 χ^2 /NDF:1642304.1/22

Left: 187.326 $\pm$ 0.023 χ^2 /NDF: 3599509.2/47

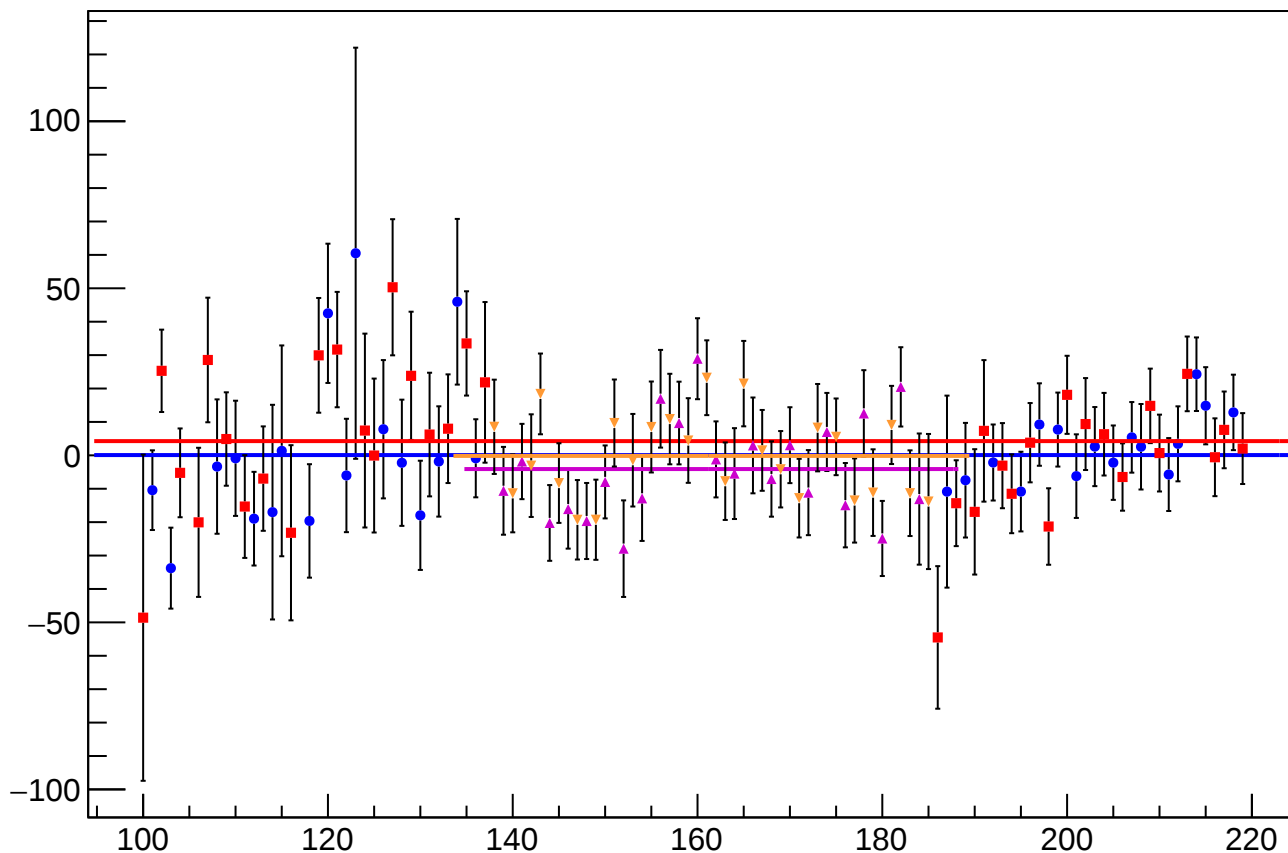
Right: 172.176 $\pm$ 0.021 χ^2 /NDF: 5125006.7/69

In: 175.136 $\pm$ 0.022 χ^2 /NDF:3861505.6/55

Out: 182.923 $\pm$ 0.022 χ^2 /NDF:5037737.6/61

All: 178.966 $\pm$ 0.015 χ^2 /NDF: 8962897.3/117

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.080 ± 2.437 $\chi^2/\text{NDF}: 33.1/32$

Left Out: -0.170 ± 2.520 $\chi^2/\text{NDF}: 24.4/24$

Right Out: 4.258 ± 2.372 $\chi^2/\text{NDF}: 51.1/36$

Left In: -4.107 ± 2.577 $\chi^2/\text{NDF}: 31.5/22$

Left: -2.095 ± 1.802 $\chi^2/\text{NDF}: 57.1/47$

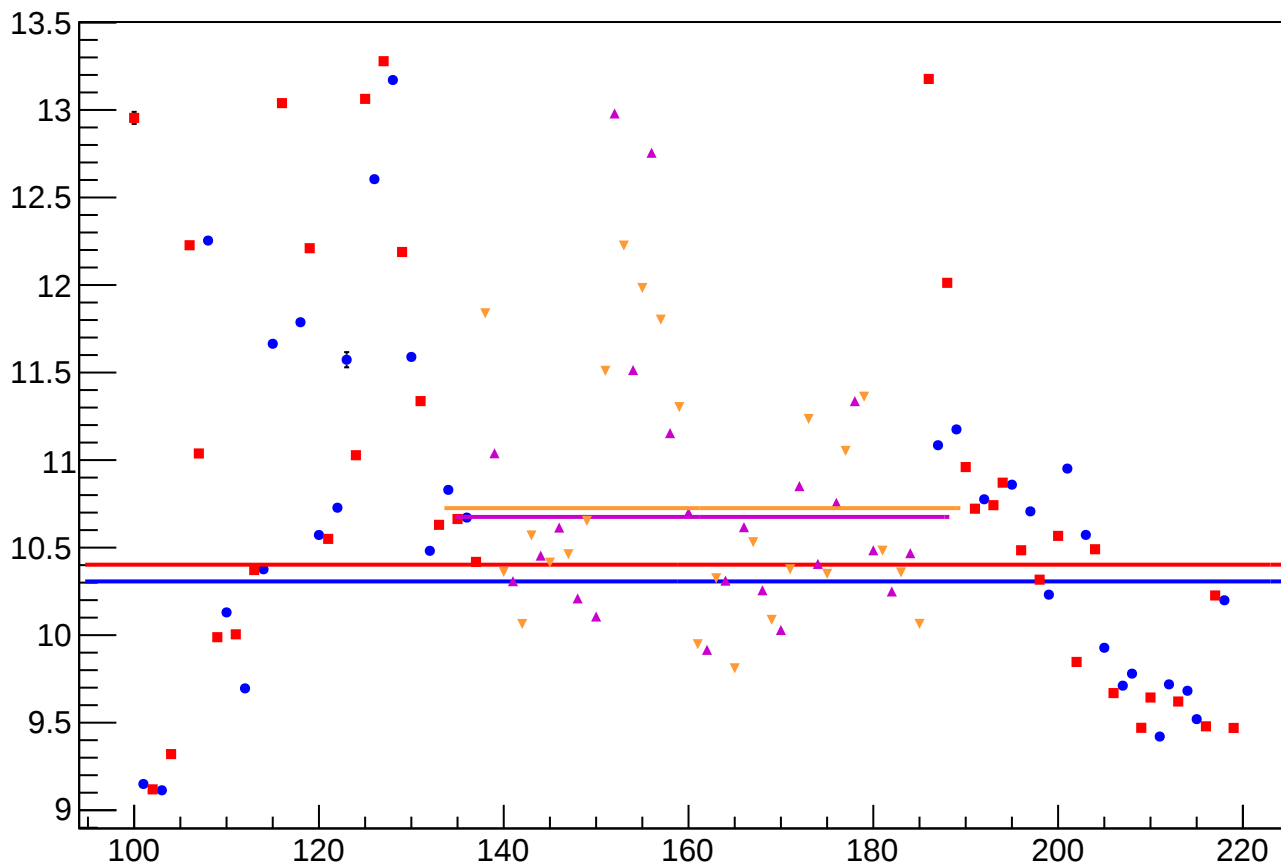
Right: 2.226 ± 1.700 $\chi^2/\text{NDF}: 85.7/69$

In: -1.896 ± 1.771 $\chi^2/\text{NDF}: 66.1/55$

Out: 2.178 ± 1.727 $\chi^2/\text{NDF}: 77.1/61$

All: 0.191 ± 1.236 $\chi^2/\text{NDF}: 145.9/117$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.307 ± 0.002 $\chi^2/\text{NDF}: 237705.7/32$

Left Out: 10.725 ± 0.002 $\chi^2/\text{NDF}: 132170.8/24$

Right Out: 10.403 ± 0.002 $\chi^2/\text{NDF}: 340056.4/36$

Left In: 10.675 ± 0.002 $\chi^2/\text{NDF}: 145938.2/22$

Left: 10.701 ± 0.001 $\chi^2/\text{NDF}: 278494.3/47$

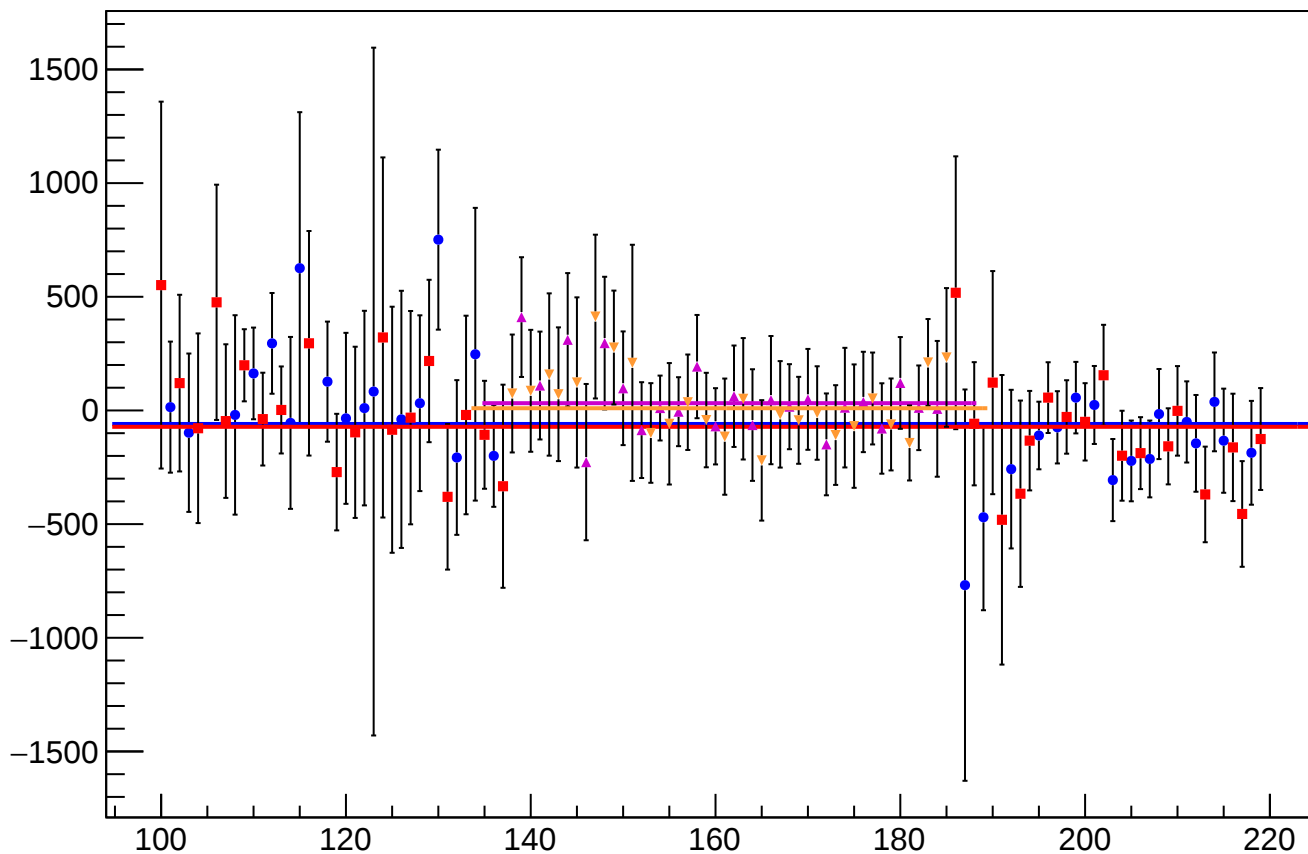
Right: 10.356 ± 0.001 $\chi^2/\text{NDF}: 579344.4/69$

In: 10.481 ± 0.001 $\chi^2/\text{NDF}: 405236.8/55$

Out: 10.554 ± 0.001 $\chi^2/\text{NDF}: 489638.8/61$

All: 10.518 ± 0.001 $\chi^2/\text{NDF}: 896635.0/117$

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.481 ± 42.091 χ^2/NDF : 17.7/32

Left Out: 9.801 ± 47.979 χ^2/NDF : 7.5/24

Right Out: -71.977 ± 41.196 χ^2/NDF : 18.6/36

Left In: 31.989 ± 45.038 χ^2/NDF : 7.2/22

Left: 21.596 ± 32.837 χ^2/NDF : 14.8/47

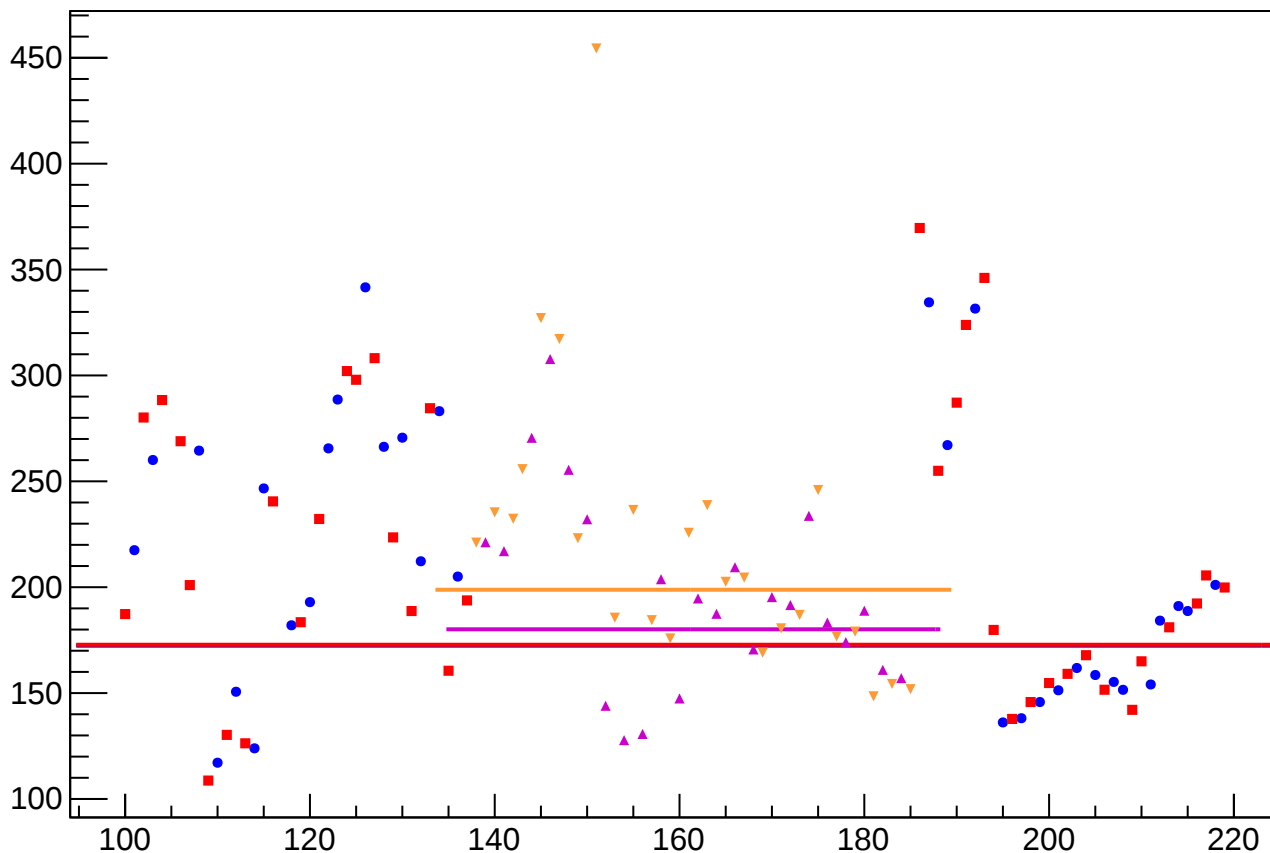
Right: -65.863 ± 29.441 χ^2/NDF : 36.4/69

In: -16.837 ± 30.752 χ^2/NDF : 27.1/55

Out: -37.272 ± 31.255 χ^2/NDF : 27.9/61

All: -26.889 ± 21.921 χ^2/NDF : 55.2/117

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.403 $\pm$ 0.030 χ^2 /NDF: 2193273.9/32

Left Out: 198.800 $\pm$ 0.034 χ^2 /NDF:1763119.1/24

Right Out: 172.830 $\pm$ 0.029 χ^2 /NDF: 2885126.4/36

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

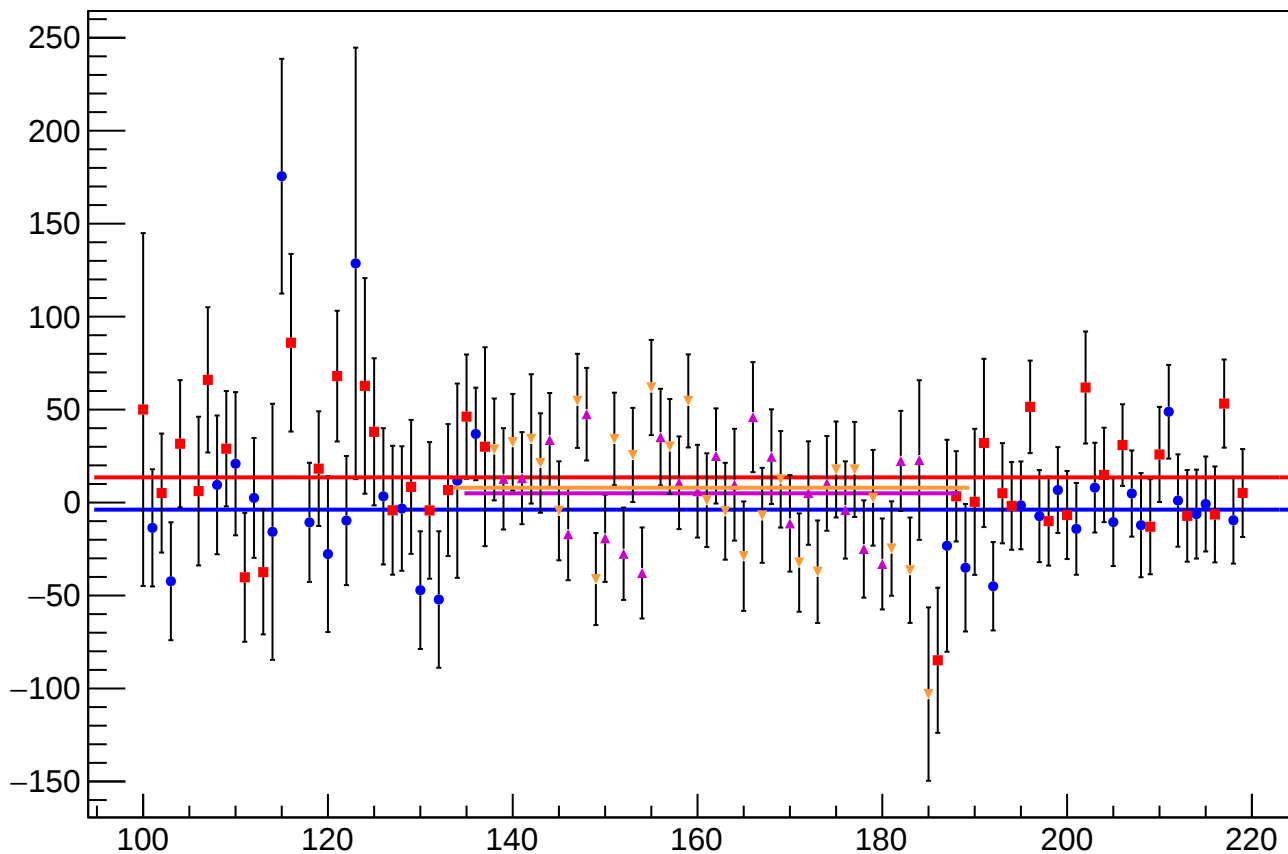
Right: 172.621 $\pm$ 0.021 χ^2 /NDF: 5078505.5/69

In: 176.002 $\pm$ 0.022 χ^2 /NDF:3818484.7/55

Out: 183.851 $\pm$ 0.022 χ^2 /NDF:4985547.5/61

All: 179.863 $\pm$ 0.016 χ^2 /NDF: 8868122.2/117

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.808 ± 5.167 χ^2/NDF : 27.8/32

Left Out: 7.990 ± 5.327 χ^2/NDF : 37.4/24

Right Out: 13.550 ± 5.005 χ^2/NDF : 34.8/36

Left In: 4.973 ± 5.444 χ^2/NDF : 20.5/22

Left: 6.514 ± 3.808 χ^2/NDF : 58.0/47

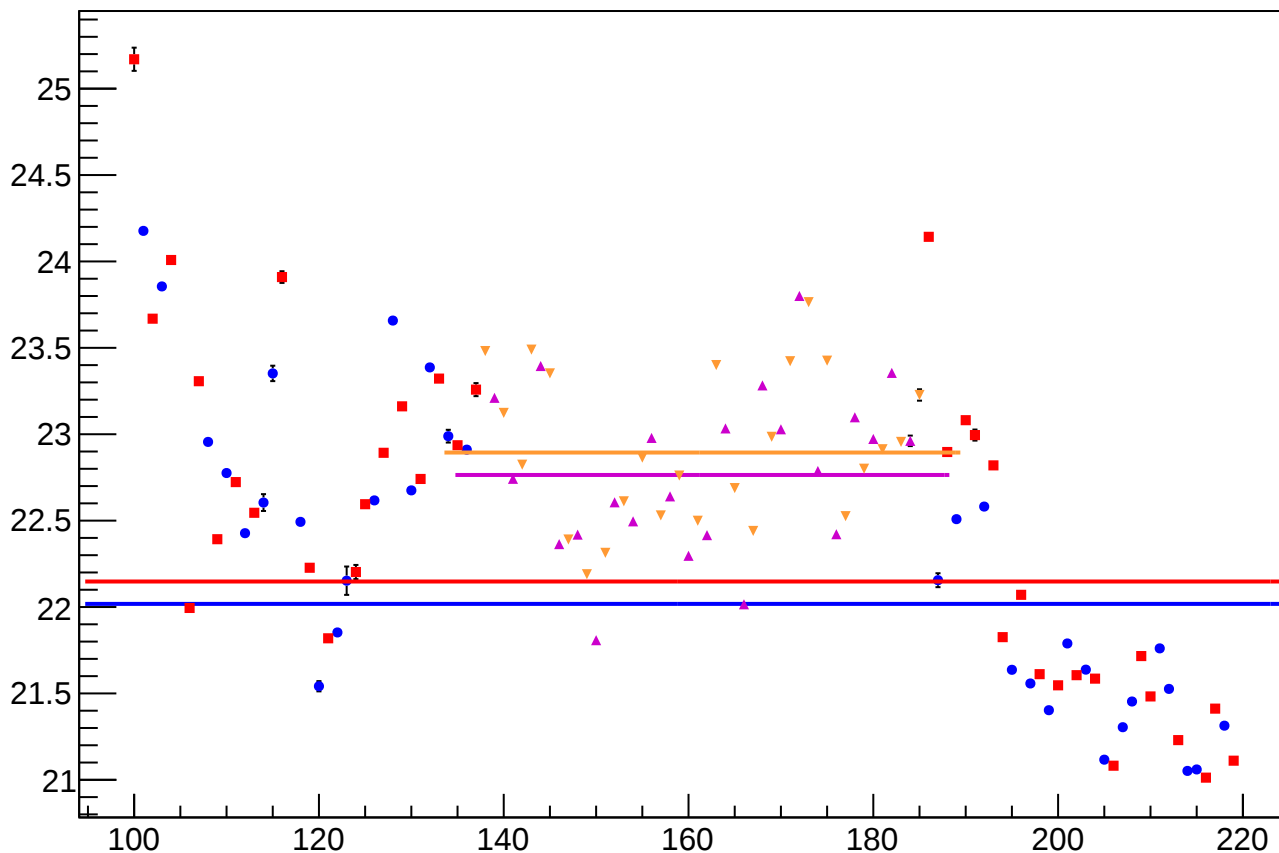
Right: 5.148 ± 3.595 χ^2/NDF : 68.4/69

In: 0.353 ± 3.748 χ^2/NDF : 49.6/55

Out: 10.943 ± 3.648 χ^2/NDF : 72.9/61

All: 5.792 ± 2.614 χ^2/NDF : 126.5/117

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.018 ± 0.004 $\chi^2/\text{NDF}: 51850.3/32$

Left Out: 22.894 ± 0.004 $\chi^2/\text{NDF}: 13070.5/24$

Right Out: 22.148 ± 0.004 $\chi^2/\text{NDF}: 59143.7/36$

Left In: 22.764 ± 0.004 $\chi^2/\text{NDF}: 14665.7/22$

Left: 22.831 ± 0.003 $\chi^2/\text{NDF}: 28317.3/47$

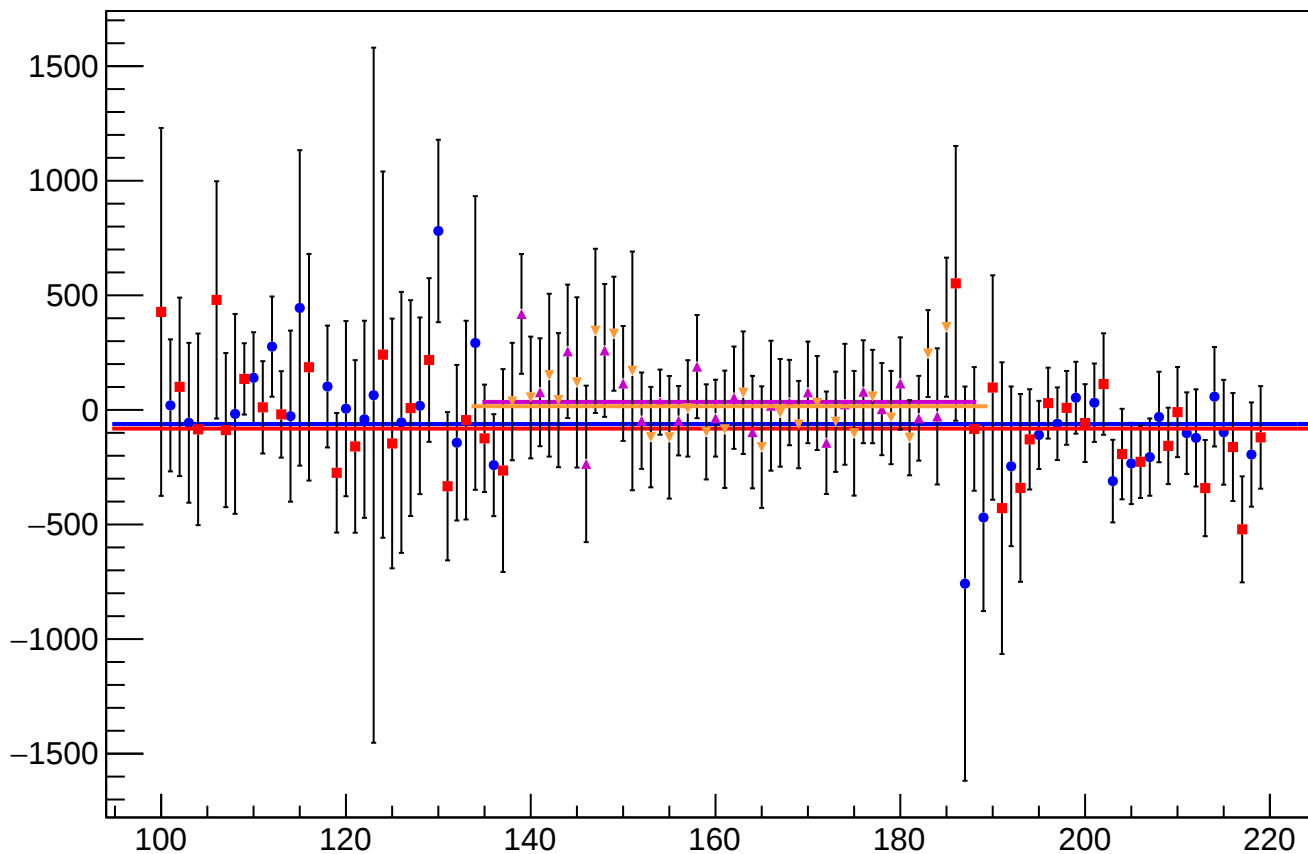
Right: 22.085 ± 0.003 $\chi^2/\text{NDF}: 111642.8/69$

In: 22.372 ± 0.003 $\chi^2/\text{NDF}: 86276.7/55$

Out: 22.498 ± 0.003 $\chi^2/\text{NDF}: 93068.0/61$

All: 22.436 ± 0.002 $\chi^2/\text{NDF}: 180504.2/117$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.301 ± 41.972 $\chi^2/\text{NDF}: 17.3/32$

Left Out: 15.904 ± 47.898 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -81.489 ± 41.028 $\chi^2/\text{NDF}: 17.1/36$

Left In: 34.919 ± 44.971 $\chi^2/\text{NDF}: 6.6/22$

Left: 26.010 ± 32.785 $\chi^2/\text{NDF}: 15.1/47$

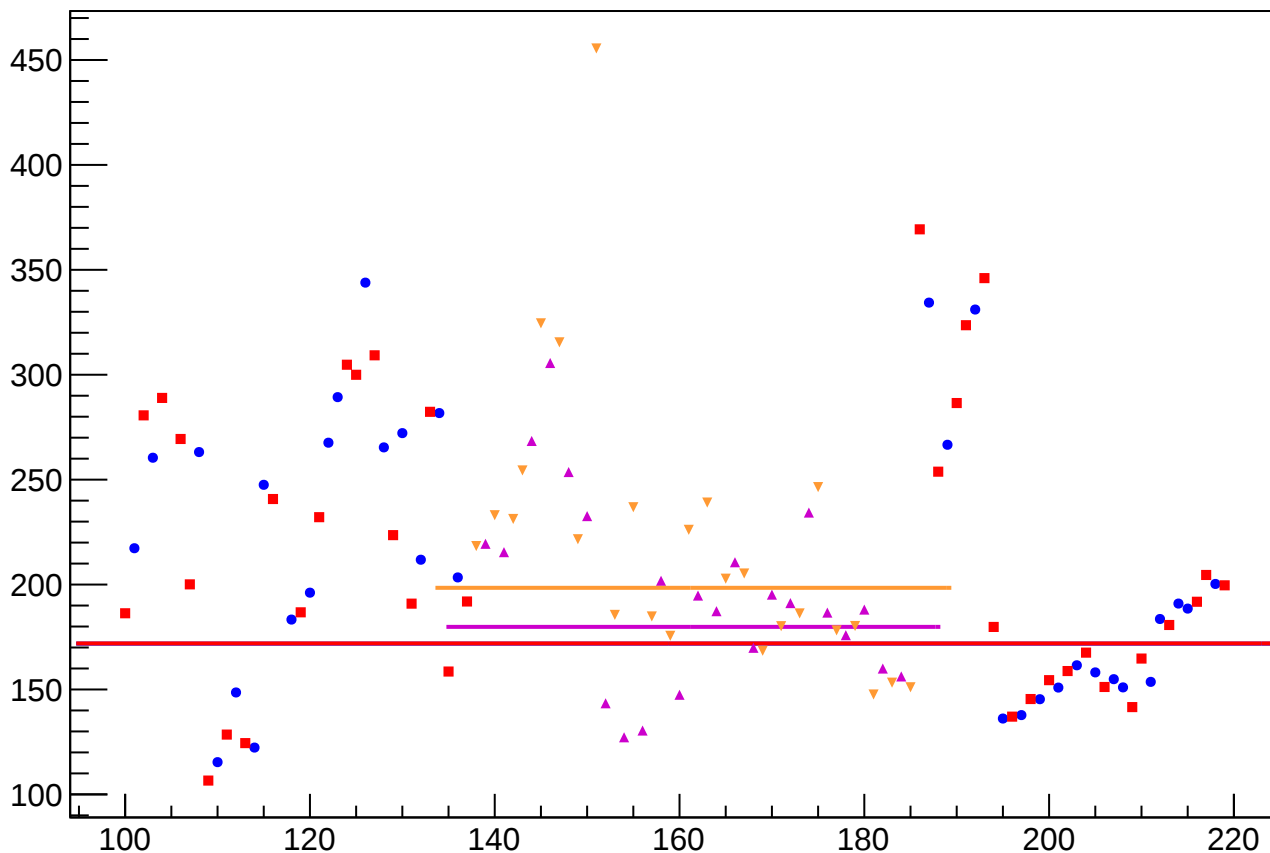
Right: -71.624 ± 29.339 $\chi^2/\text{NDF}: 34.5/69$

In: -16.506 ± 30.684 $\chi^2/\text{NDF}: 26.3/55$

Out: -40.272 ± 31.160 $\chi^2/\text{NDF}: 27.9/61$

All: -28.206 ± 21.863 $\chi^2/\text{NDF}: 54.5/117$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.847+/-0.030 χ^2/NDF : 2224396.3/32

Left Out: 198.450+/-0.034 χ^2/NDF : 1761433.9/24

Right Out: 171.949+/-0.029 χ^2/NDF : 2955723.7/36

Left In: 179.839+/-0.032 χ^2/NDF : 1588834.3/22

Left: 188.558+/-0.023 χ^2/NDF : 3510745.5/47

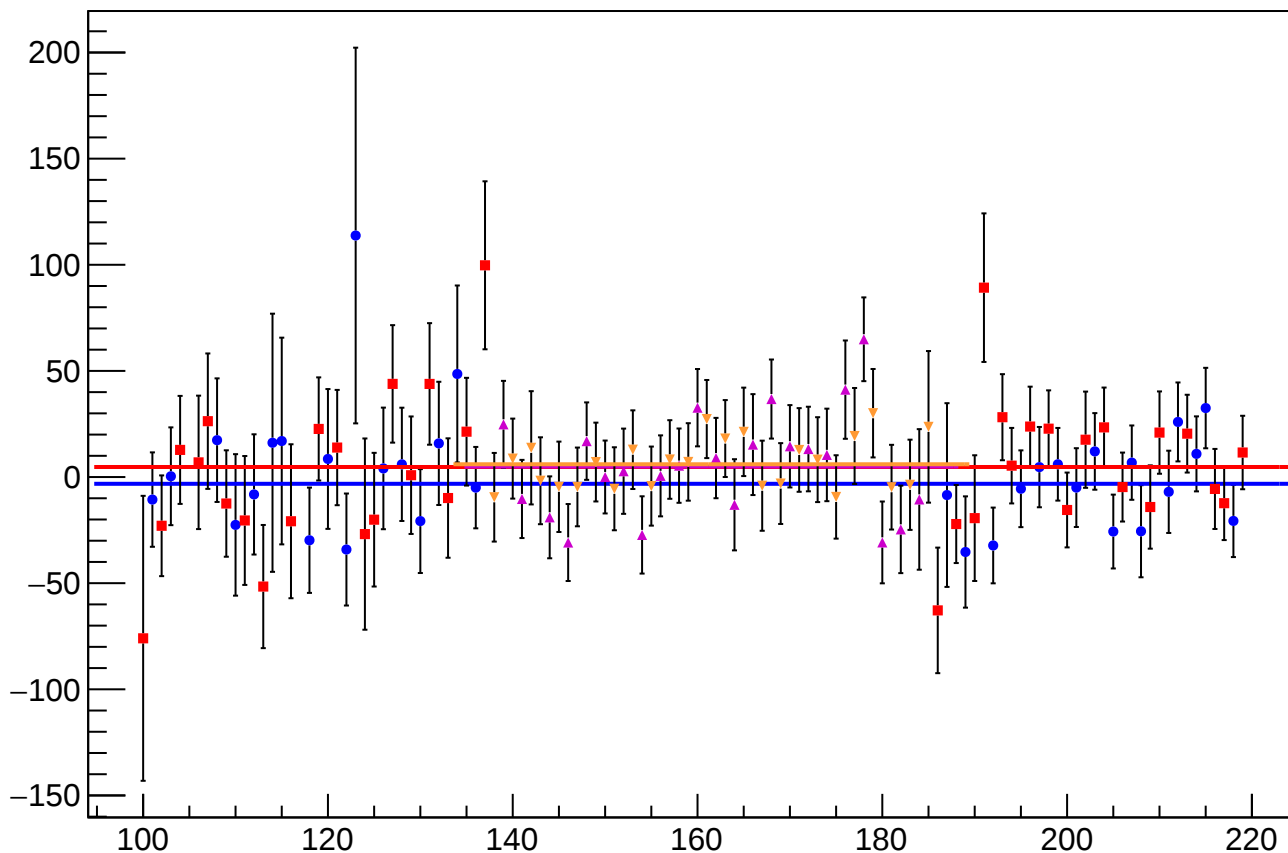
Right: 171.899+/-0.021 χ^2/NDF : 5180126.1/69

In: 175.567+/-0.022 χ^2/NDF : 3846993.9/55

Out: 183.164+/-0.022 χ^2/NDF : 5070280.4/61

All: 179.307+/-0.015 χ^2/NDF : 8977629.0/117

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.183 ± 3.926 χ^2/NDF : 24.5/32

Left Out: 6.020 ± 4.017 χ^2/NDF : 8.1/24

Right Out: 4.734 ± 3.806 χ^2/NDF : 44.9/36

Left In: 4.943 ± 4.108 χ^2/NDF : 34.8/22

Left: 5.494 ± 2.872 χ^2/NDF : 43.0/47

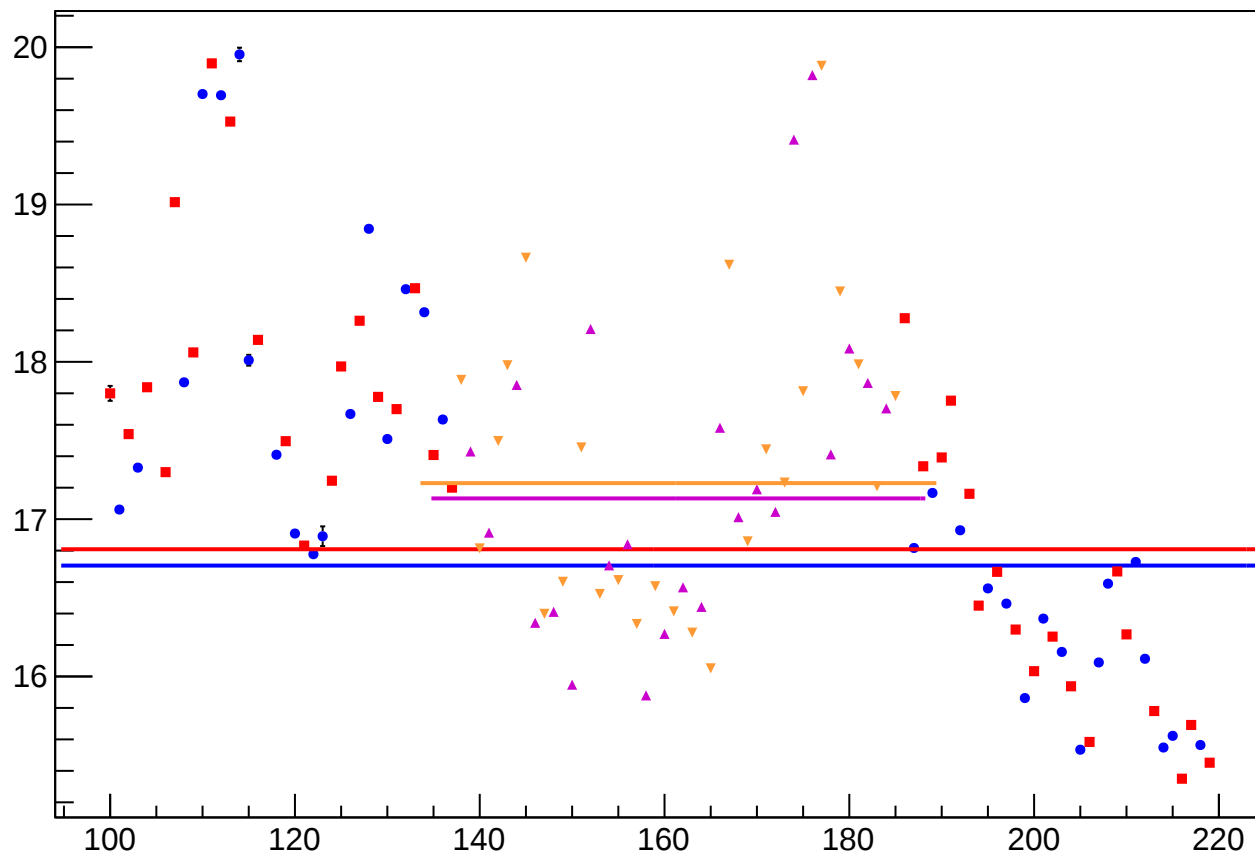
Right: 0.899 ± 2.733 χ^2/NDF : 71.5/69

In: 0.697 ± 2.838 χ^2/NDF : 61.4/55

Out: 5.342 ± 2.763 χ^2/NDF : 53.1/61

All: 3.082 ± 1.980 χ^2/NDF : 115.8/117

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.705 $\pm$ 0.003 χ^2/NDF : 131255.8/32

Left Out: 17.229 $\pm$ 0.003 χ^2/NDF :98624.7/24

Right Out: 16.809 $\pm$ 0.003 χ^2/NDF : 157459.4/36

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

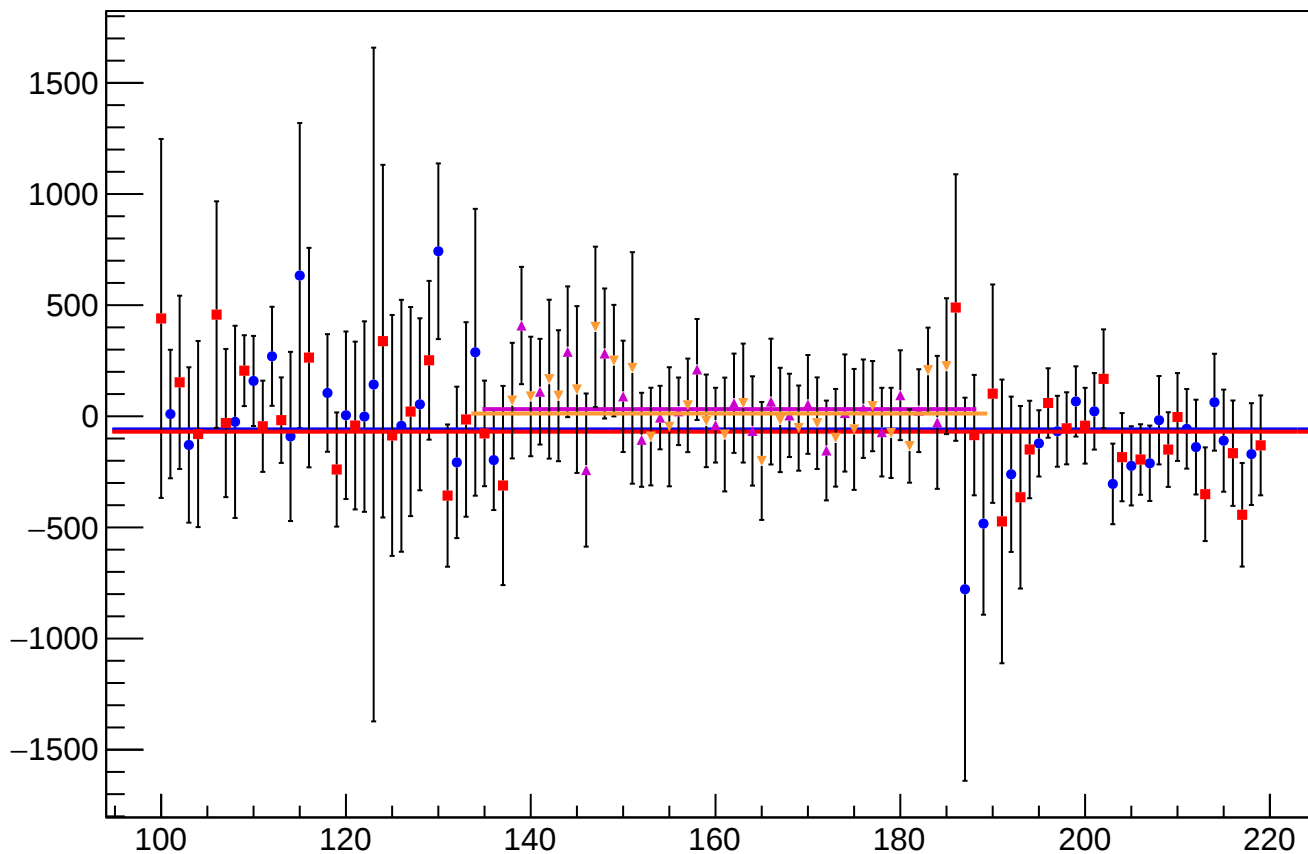
Right: 16.758 $\pm$ 0.002 χ^2/NDF : 289435.9/69

In: 16.909 $\pm$ 0.002 χ^2/NDF :246543.9/55

Out: 17.008 $\pm$ 0.002 χ^2/NDF :267629.4/61

All: 16.959 $\pm$ 0.001 χ^2/NDF : 515417.9/117

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.991 ± 42.217 $\chi^2/\text{NDF}: 17.4/32$

Left Out: 12.474 ± 48.086 $\chi^2/\text{NDF}: 6.8/24$

Right Out: -69.210 ± 41.306 $\chi^2/\text{NDF}: 17.8/36$

Left In: 32.159 ± 45.131 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.940 ± 32.908 $\chi^2/\text{NDF}: 13.9/47$

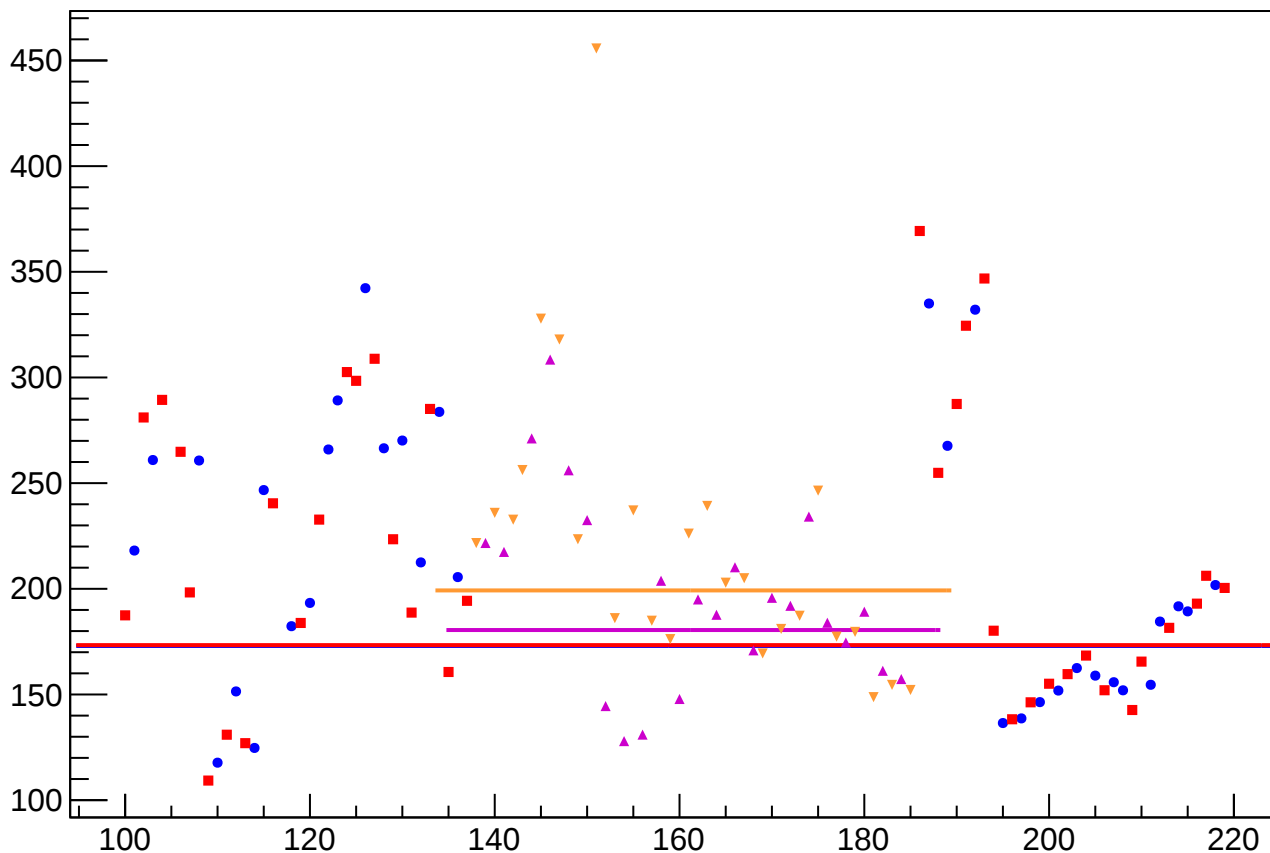
Right: -64.212 ± 29.525 $\chi^2/\text{NDF}: 35.2/69$

In: -16.454 ± 30.831 $\chi^2/\text{NDF}: 26.5/55$

Out: -34.527 ± 31.333 $\chi^2/\text{NDF}: 26.3/61$

All: -25.344 ± 21.976 $\chi^2/\text{NDF}: 52.9/117$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.967 $\pm$ 0.030 χ^2 /NDF: 2174930.0/32

Left Out: 199.241 $\pm$ 0.034 χ^2 /NDF:1764097.7/24

Right Out: 173.351 $\pm$ 0.029 χ^2 /NDF: 2860450.0/36

Left In: 180.494 $\pm$ 0.032 χ^2 /NDF:1593784.1/22

Left: 189.274 $\pm$ 0.023 χ^2 /NDF: 3519511.1/47

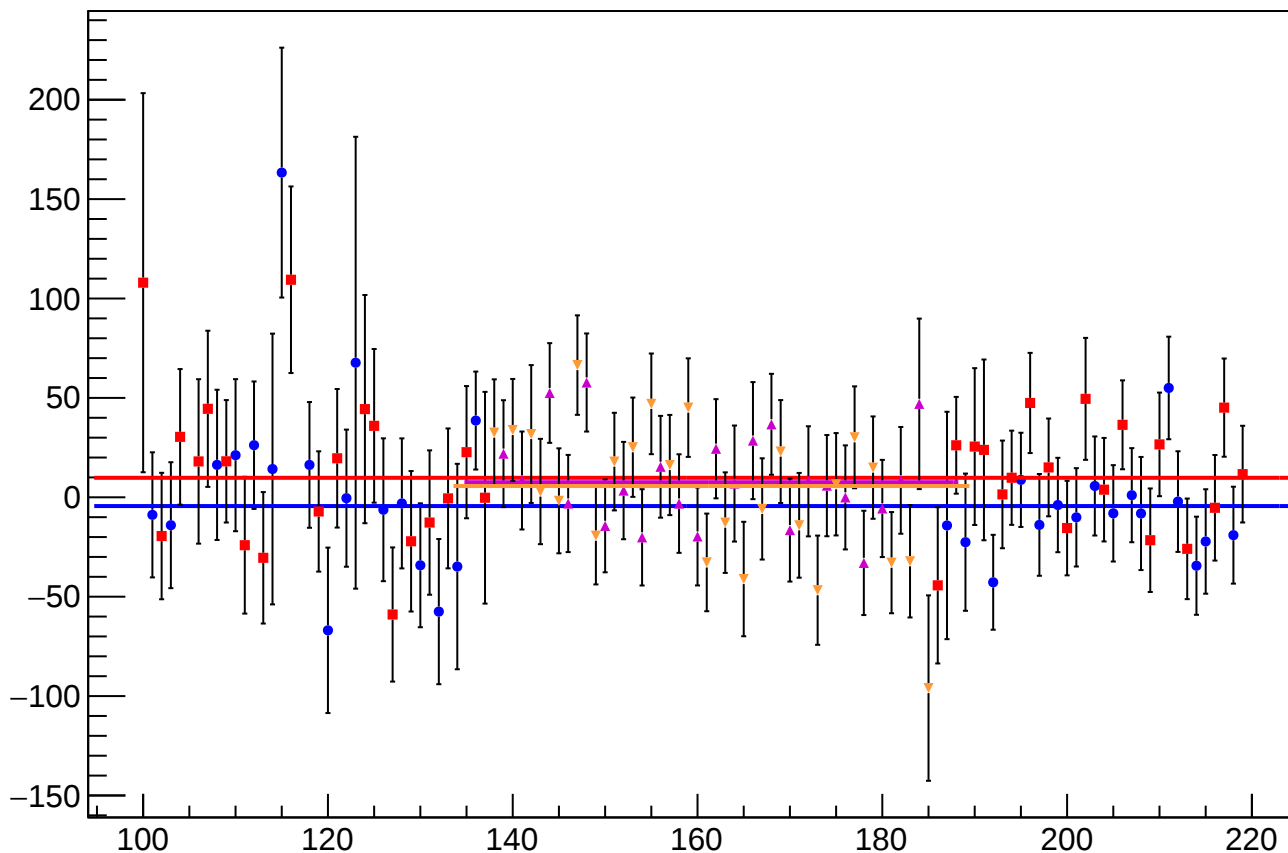
Right: 173.163 $\pm$ 0.021 χ^2 /NDF: 5035464.7/69

In: 176.479 $\pm$ 0.022 χ^2 /NDF:3798385.0/55

Out: 184.344 $\pm$ 0.022 χ^2 /NDF:4958161.5/61

All: 180.348 $\pm$ 0.016 χ^2 /NDF: 8820562.5/117

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.409 ± 5.226 χ^2/NDF : 29.8/32

Left Out: 5.673 ± 5.278 χ^2/NDF : 36.4/24

Right Out: 9.807 ± 5.048 χ^2/NDF : 32.5/36

Left In: 7.594 ± 5.402 χ^2/NDF : 18.3/22

Left: 6.611 ± 3.775 χ^2/NDF : 54.8/47

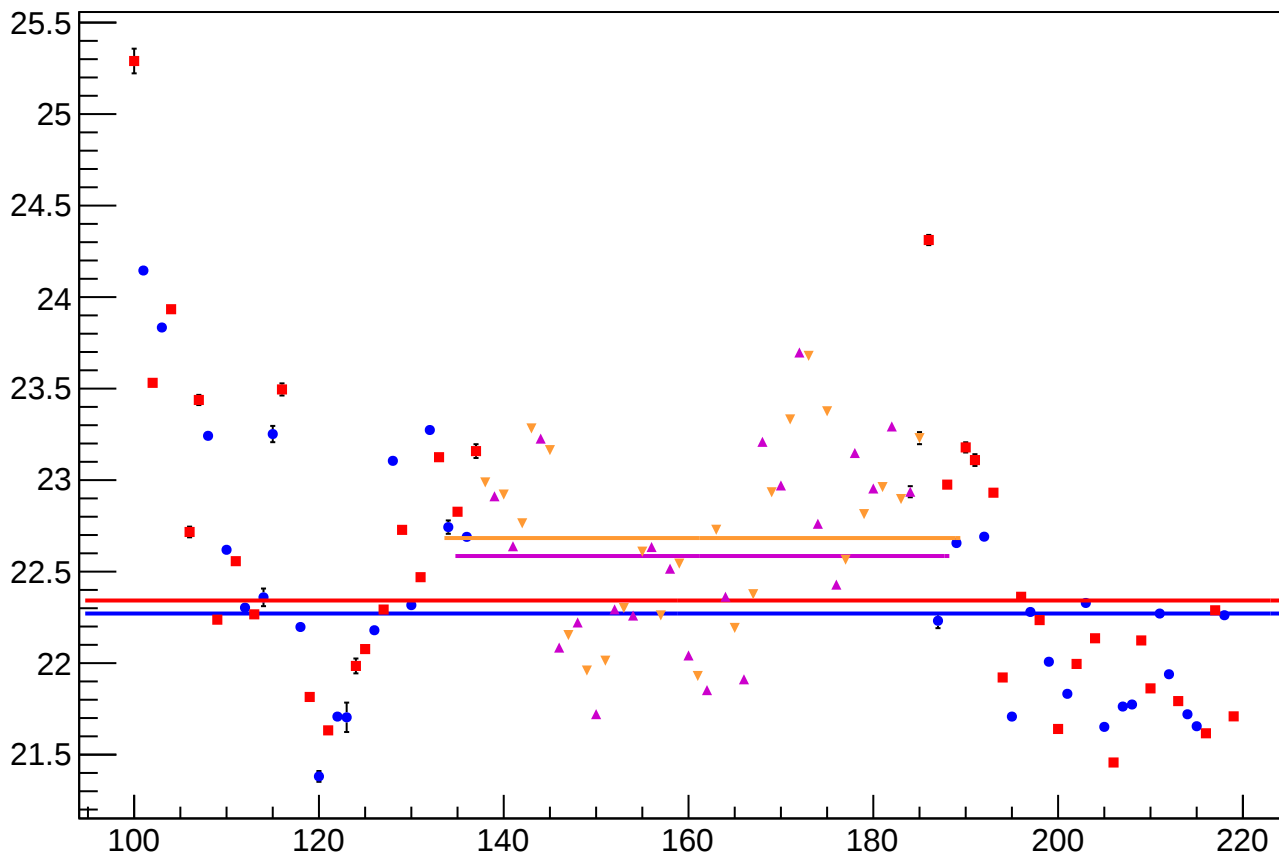
Right: 2.944 ± 3.631 χ^2/NDF : 66.0/69

In: 1.393 ± 3.756 χ^2/NDF : 50.6/55

Out: 7.832 ± 3.648 χ^2/NDF : 69.2/61

All: 4.706 ± 2.617 χ^2/NDF : 121.3/117

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.271 ± 0.004 $\chi^2/\text{NDF}: 27182.6/32$

Left Out: 22.683 ± 0.004 $\chi^2/\text{NDF}: 16318.1/24$

Right Out: 22.342 ± 0.004 $\chi^2/\text{NDF}: 35201.2/36$

Left In: 22.585 ± 0.004 $\chi^2/\text{NDF}: 18087.5/22$

Left: 22.635 ± 0.003 $\chi^2/\text{NDF}: 34743.7/47$

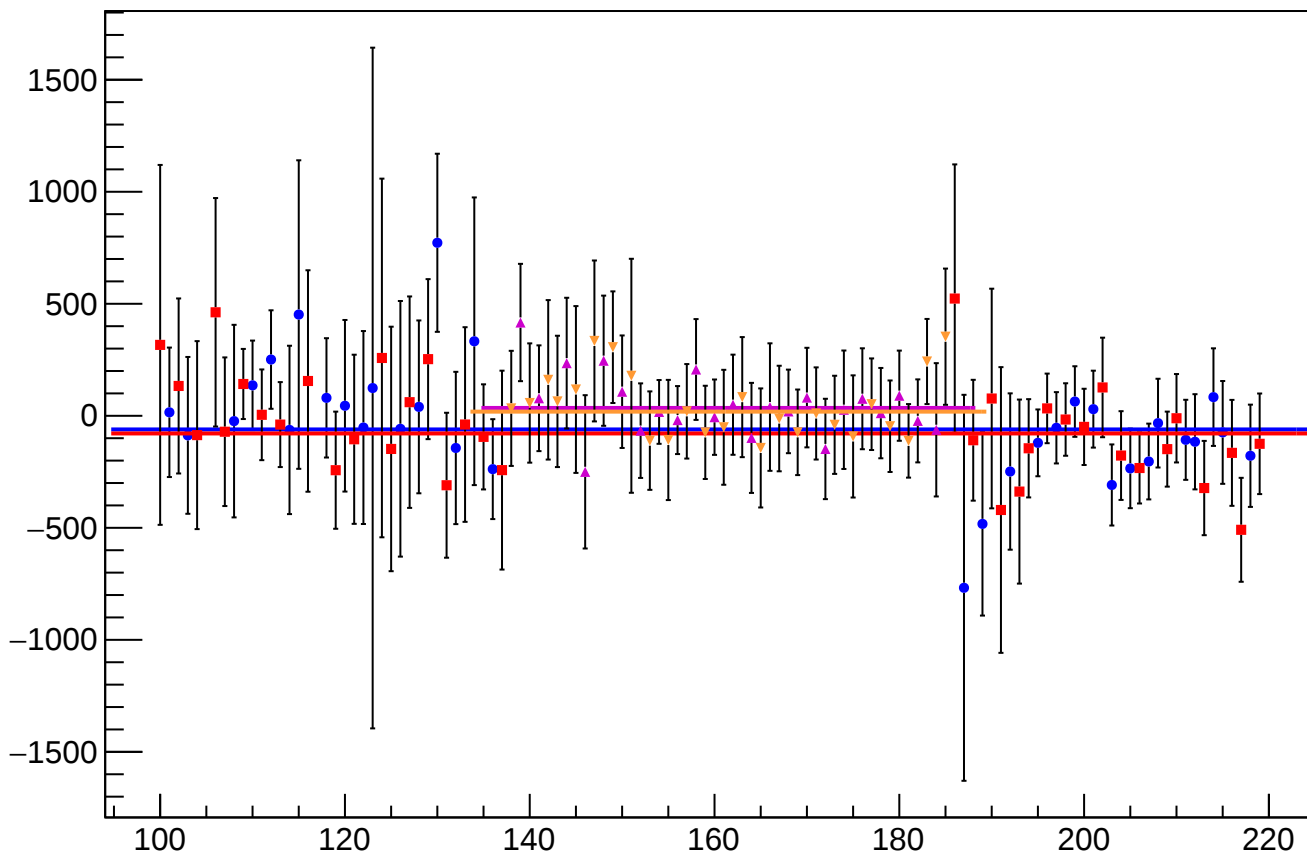
Right: 22.308 ± 0.003 $\chi^2/\text{NDF}: 62575.6/69$

In: 22.423 ± 0.003 $\chi^2/\text{NDF}: 48765.4/55$

Out: 22.505 ± 0.003 $\chi^2/\text{NDF}: 55885.7/61$

All: 22.465 ± 0.002 $\chi^2/\text{NDF}: 105144.9/117$

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.879 ± 42.099 $\chi^2/\text{NDF}: 17.0/32$

Left Out: 18.633 ± 48.006 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -78.767 ± 41.140 $\chi^2/\text{NDF}: 16.2/36$

Left In: 35.046 ± 45.063 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.358 ± 32.855 $\chi^2/\text{NDF}: 13.9/47$

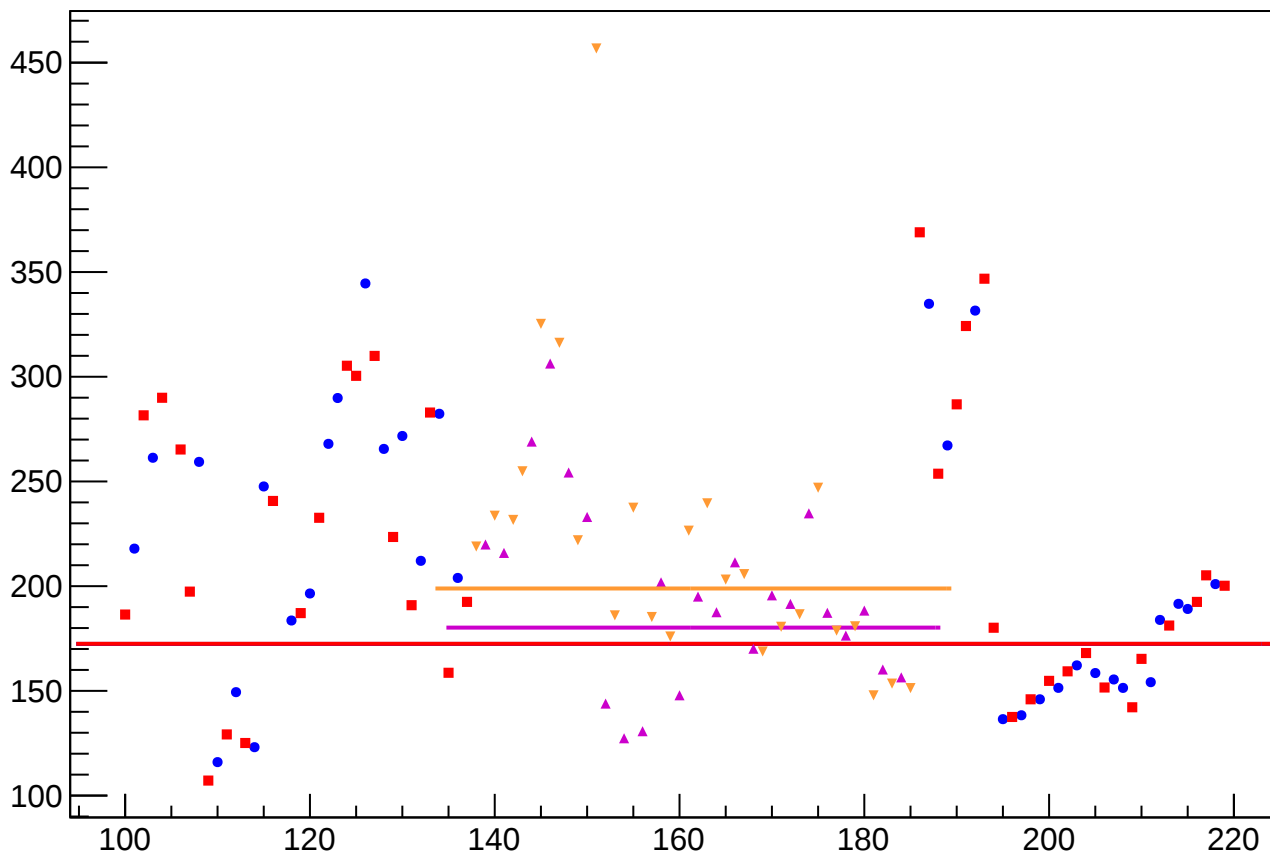
Right: -70.029 ± 29.423 $\chi^2/\text{NDF}: 33.3/69$

In: -16.175 ± 30.763 $\chi^2/\text{NDF}: 25.7/55$

Out: -37.525 ± 31.238 $\chi^2/\text{NDF}: 26.2/61$

All: -26.686 ± 21.919 $\chi^2/\text{NDF}: 52.1/117$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.415 $\pm$ 0.030 χ^2 /NDF: 2205451.6/32

Left Out: 198.891 $\pm$ 0.034 χ^2 /NDF:1762454.6/24

Right Out: 172.476 $\pm$ 0.029 χ^2 /NDF: 2930093.5/36

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

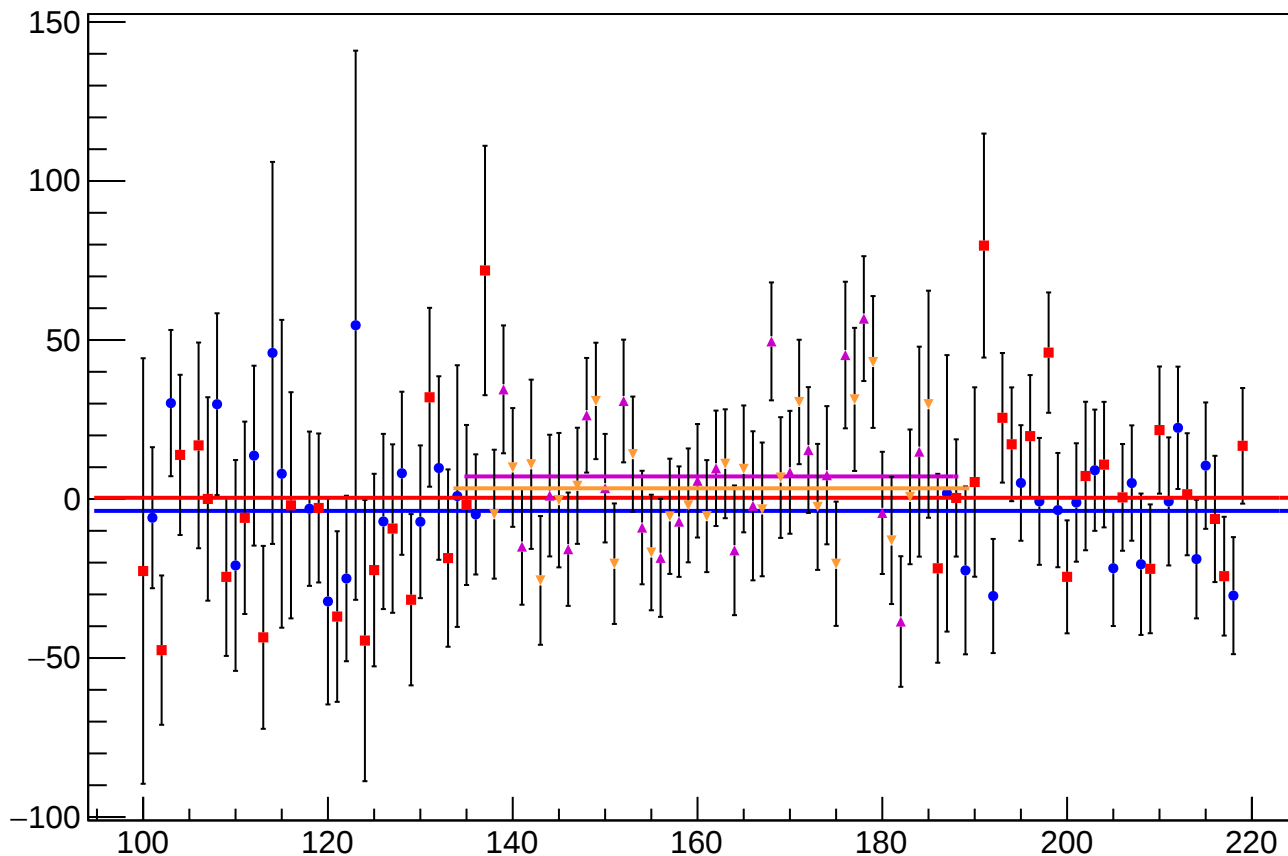
Right: 172.446 $\pm$ 0.021 χ^2 /NDF: 5135547.2/69

In: 176.046 $\pm$ 0.022 χ^2 /NDF:3826389.3/55

Out: 183.661 $\pm$ 0.022 χ^2 /NDF:5041678.8/61

All: 179.795 $\pm$ 0.015 χ^2 /NDF: 8928393.6/117

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.733 ± 4.003 $\chi^2/\text{NDF}: 17.7/32$

Left Out: 3.372 ± 3.947 $\chi^2/\text{NDF}: 18.8/24$

Right Out: 0.384 ± 3.866 $\chi^2/\text{NDF}: 40.6/36$

Left In: 7.099 ± 4.047 $\chi^2/\text{NDF}: 32.5/22$

Left: 5.189 ± 2.826 $\chi^2/\text{NDF}: 51.8/47$

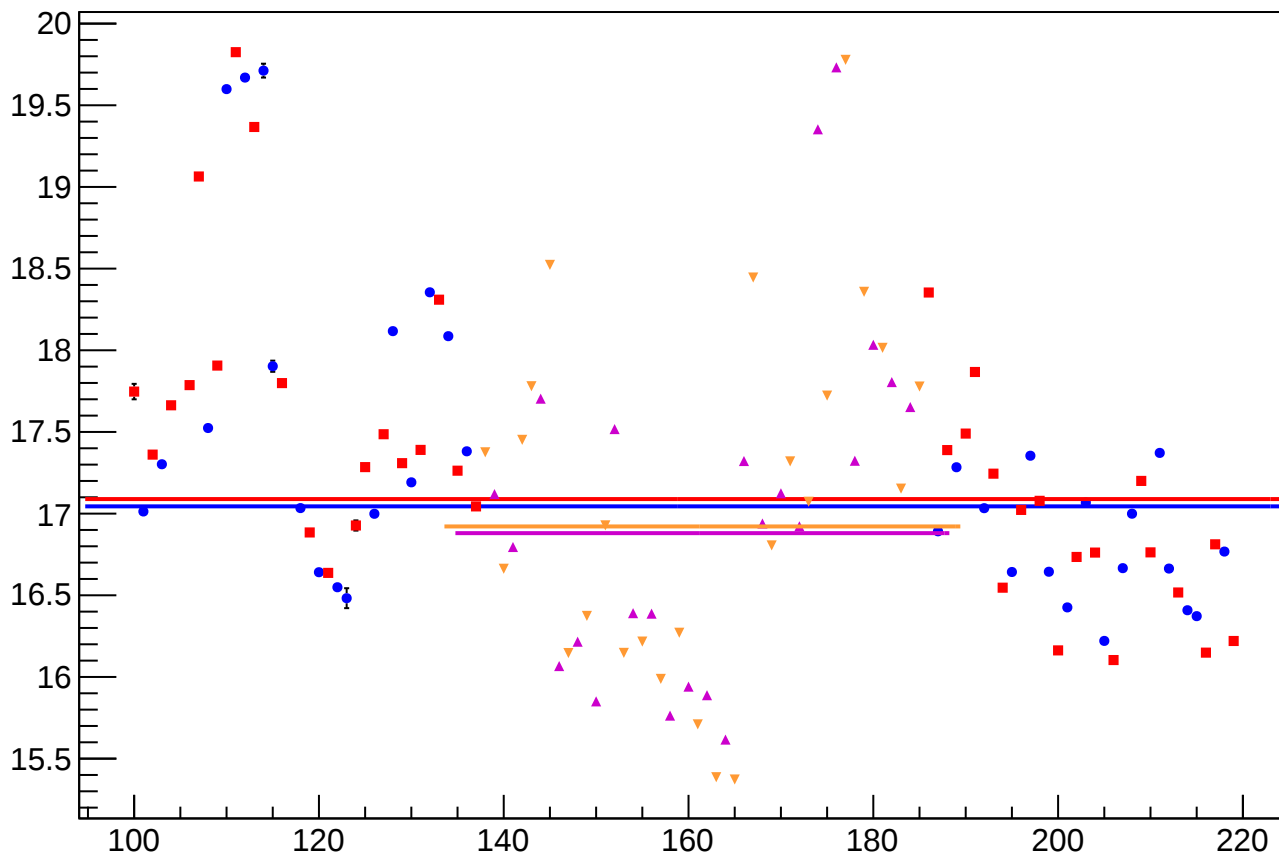
Right: -1.603 ± 2.781 $\chi^2/\text{NDF}: 58.9/69$

In: 1.623 ± 2.846 $\chi^2/\text{NDF}: 53.9/55$

Out: 1.847 ± 2.762 $\chi^2/\text{NDF}: 59.7/61$

All: 1.738 ± 1.982 $\chi^2/\text{NDF}: 113.6/117$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.044 $\pm$ 0.003 χ^2/NDF : 61459.0/32

Left Out: 16.921 $\pm$ 0.003 χ^2/NDF : 138990.4/24

Right Out: 17.089 $\pm$ 0.003 χ^2/NDF : 80169.7/36

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

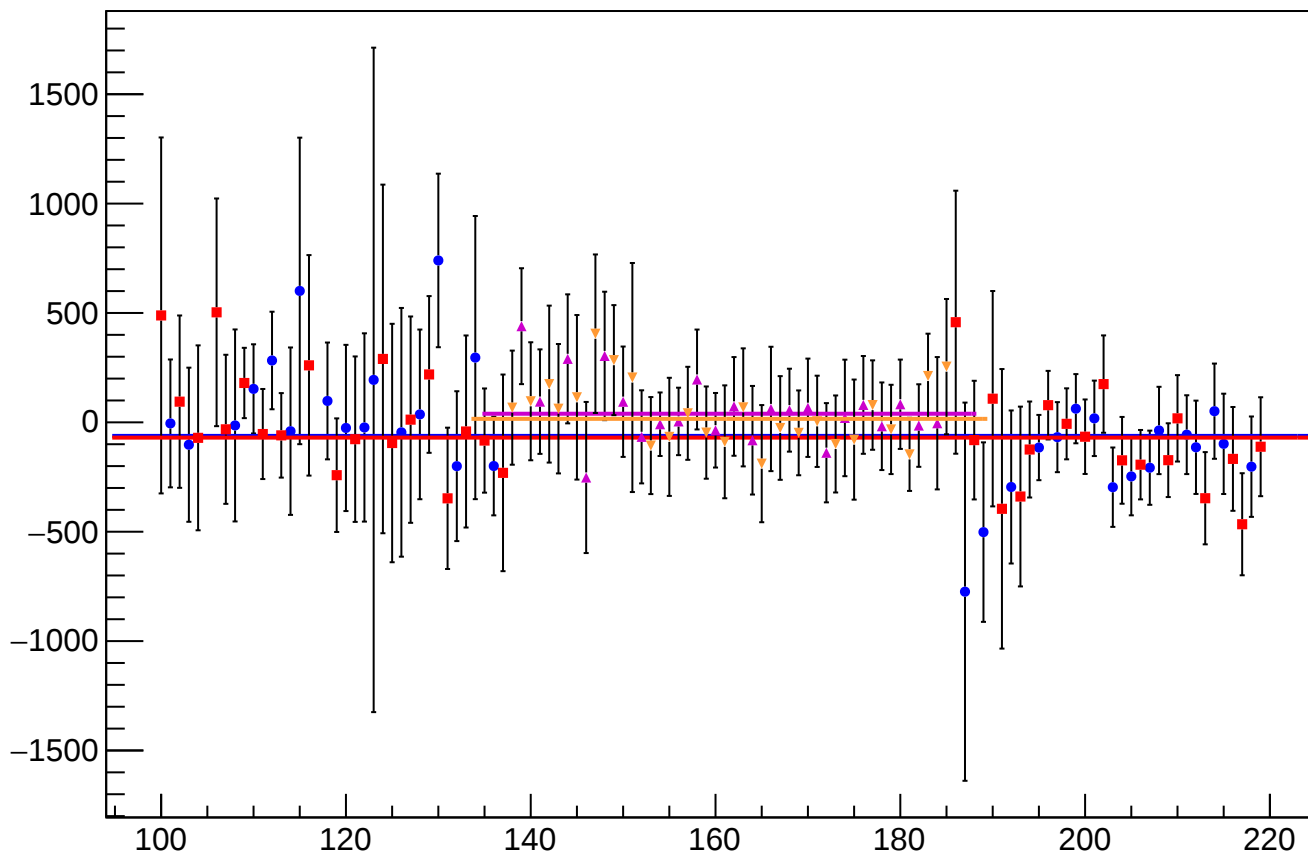
Right: 17.068 $\pm$ 0.002 χ^2/NDF : 141757.3/69

In: 16.963 $\pm$ 0.002 χ^2/NDF : 184855.7/55

Out: 17.007 $\pm$ 0.002 χ^2/NDF : 221001.4/61

All: 16.986 $\pm$ 0.001 χ^2/NDF : 406099.5/117

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.981 ± 42.325 $\chi^2/\text{NDF}: 17.3/32$

Left Out: 15.970 ± 48.503 $\chi^2/\text{NDF}: 7.4/24$

Right Out: -69.838 ± 41.436 $\chi^2/\text{NDF}: 17.1/36$

Left In: 39.377 ± 45.571 $\chi^2/\text{NDF}: 6.9/22$

Left: 28.402 ± 33.212 $\chi^2/\text{NDF}: 14.4/47$

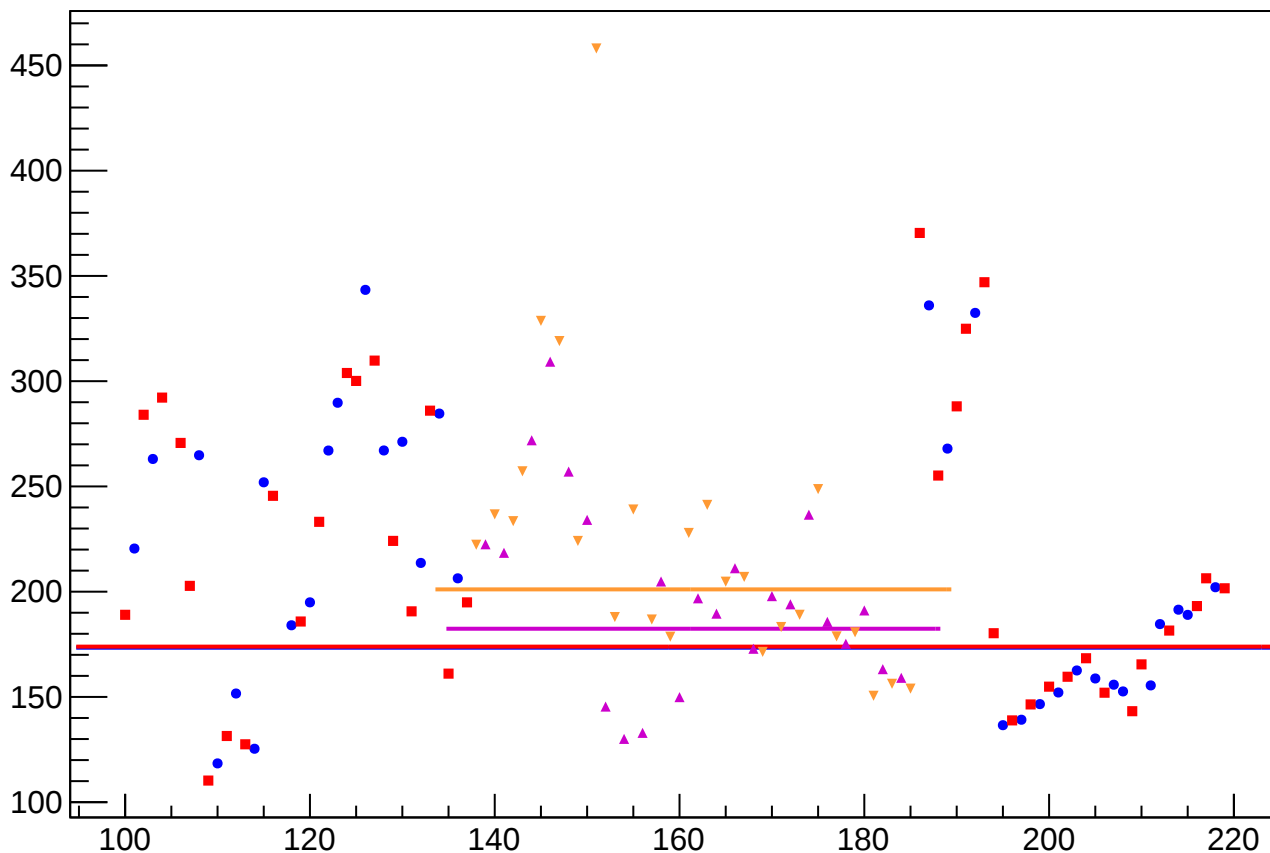
Right: -65.993 ± 29.609 $\chi^2/\text{NDF}: 34.4/69$

In: -15.040 ± 31.012 $\chi^2/\text{NDF}: 26.9/55$

Out: -33.635 ± 31.505 $\chi^2/\text{NDF}: 26.3/61$

All: -24.191 ± 22.101 $\chi^2/\text{NDF}: 53.3/117$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.390 $\pm$ 0.030 χ^2 /NDF: 2187003.7/32

Left Out: 201.091 $\pm$ 0.034 χ^2 /NDF:1731069.1/24

Right Out: 173.897 $\pm$ 0.029 χ^2 /NDF: 2870249.6/36

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

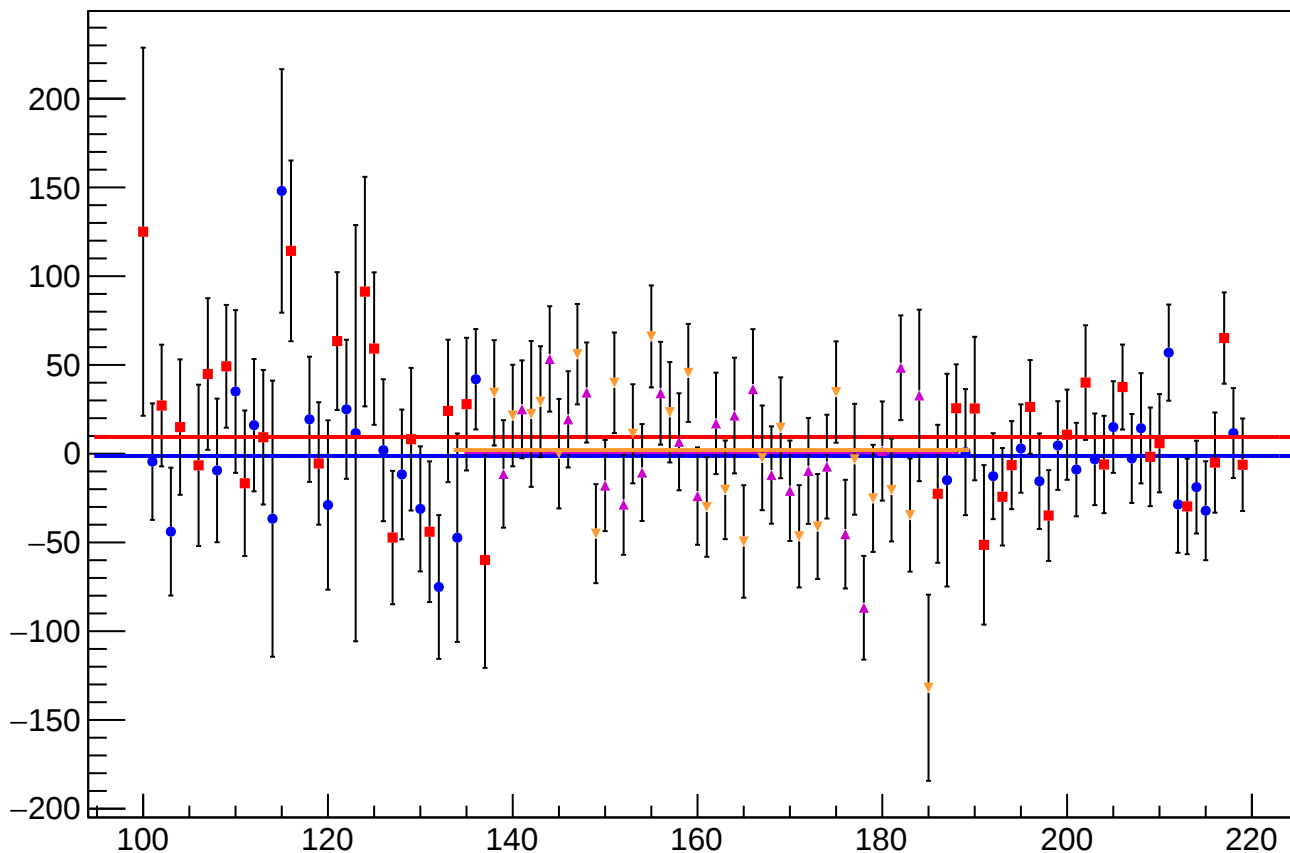
Right: 173.649 $\pm$ 0.021 χ^2 /NDF: 5057399.9/69

In: 177.561 $\pm$ 0.022 χ^2 /NDF:3777850.7/55

Out: 185.370 $\pm$ 0.022 χ^2 /NDF:4964766.7/61

All: 181.404 $\pm$ 0.016 χ^2 /NDF: 8805031.1/117

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.279 ± 5.620 χ^2/NDF : 24.4/32

Left Out: 2.054 ± 5.970 χ^2/NDF : 39.4/24

Right Out: 9.391 ± 5.410 χ^2/NDF : 37.8/36

Left In: 0.900 ± 6.069 χ^2/NDF : 27.1/22

Left: 1.487 ± 4.256 χ^2/NDF : 66.5/47

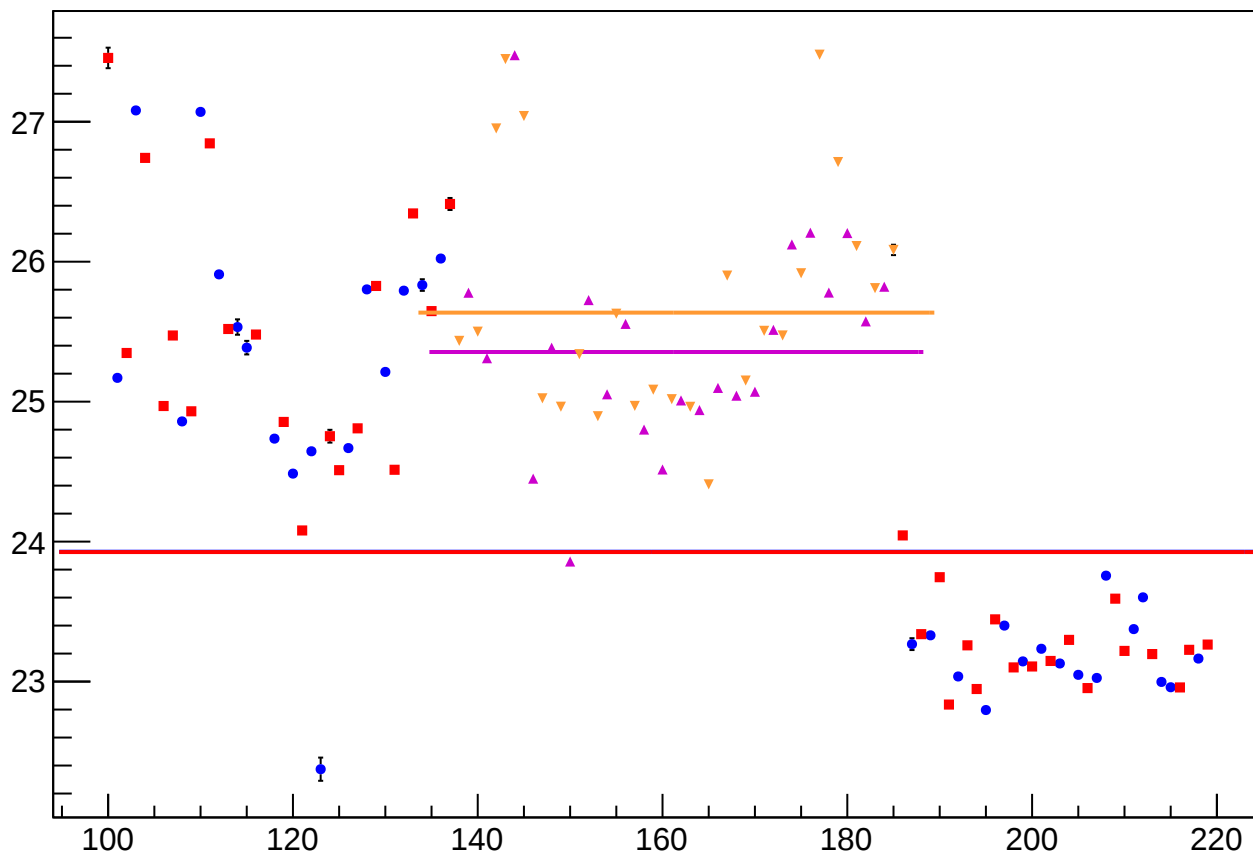
Right: 4.259 ± 3.898 χ^2/NDF : 64.1/69

In: -0.273 ± 4.124 χ^2/NDF : 51.5/55

Out: 6.083 ± 4.009 χ^2/NDF : 78.0/61

All: 2.994 ± 2.875 χ^2/NDF : 130.8/117

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.928 $\pm$ 0.004 χ^2 /NDF: 90898.4/32

Left Out: 25.636 $\pm$ 0.004 χ^2 /NDF:35130.7/24

Right Out: 23.925 $\pm$ 0.004 χ^2 /NDF: 85800.7/36

Left In: 25.355 $\pm$ 0.004 χ^2 /NDF:29766.2/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 67081.3/47

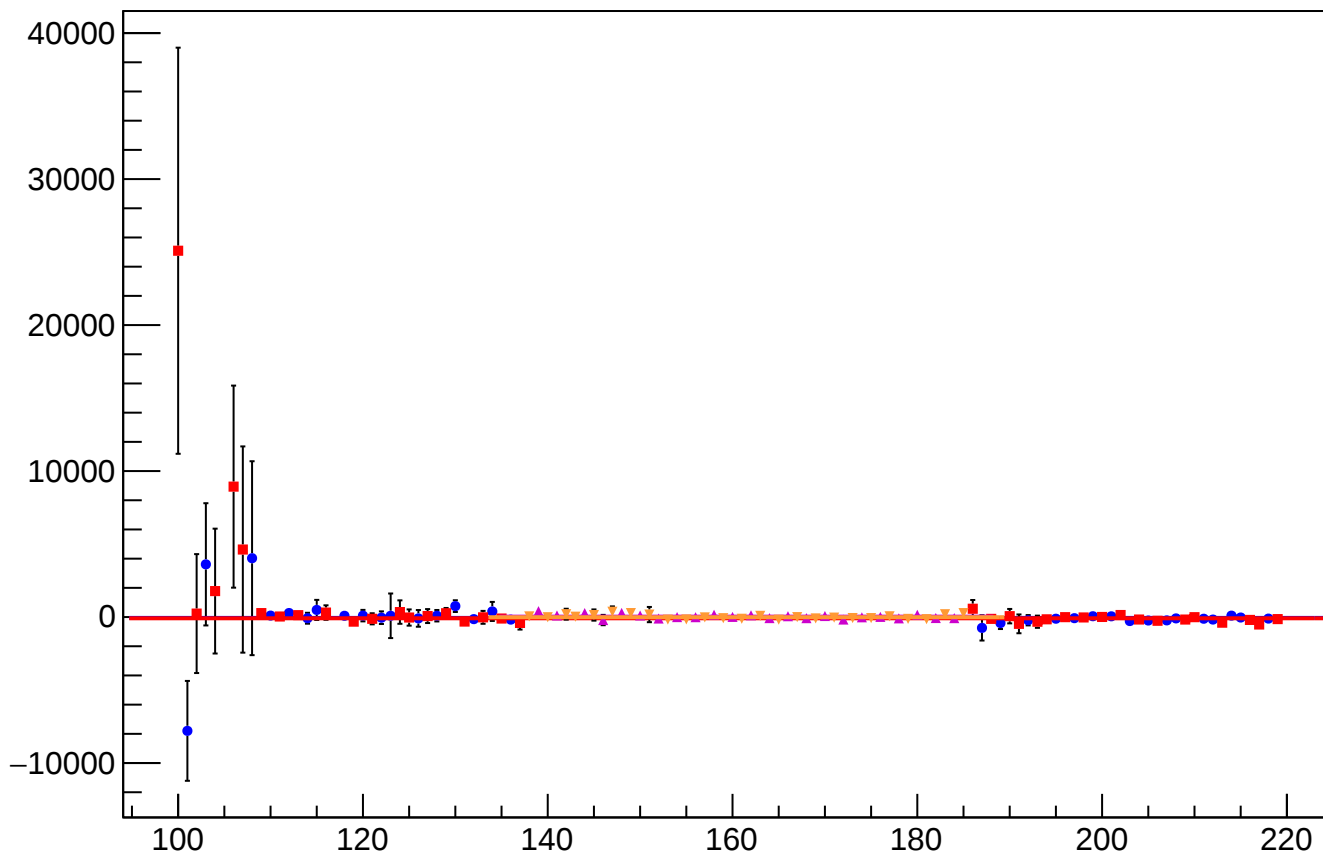
Right: 23.926 $\pm$ 0.003 χ^2 /NDF: 176699.3/69

In: 24.587 $\pm$ 0.003 χ^2 /NDF:180181.1/55

Out: 24.697 $\pm$ 0.003 χ^2 /NDF:211098.3/61

All: 24.643 $\pm$ 0.002 χ^2 /NDF: 392014.7/117

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.053+/-44.122 χ^2/NDF : 22.0/32

Left Out: -12.820+/-48.216 χ^2/NDF : 7.9/24

Right Out: -84.771+/-43.767 χ^2/NDF : 24.4/36

Left In: 26.836+/-45.876 χ^2/NDF : 7.5/22

Left: 7.994+/-33.236 χ^2/NDF : 15.7/47

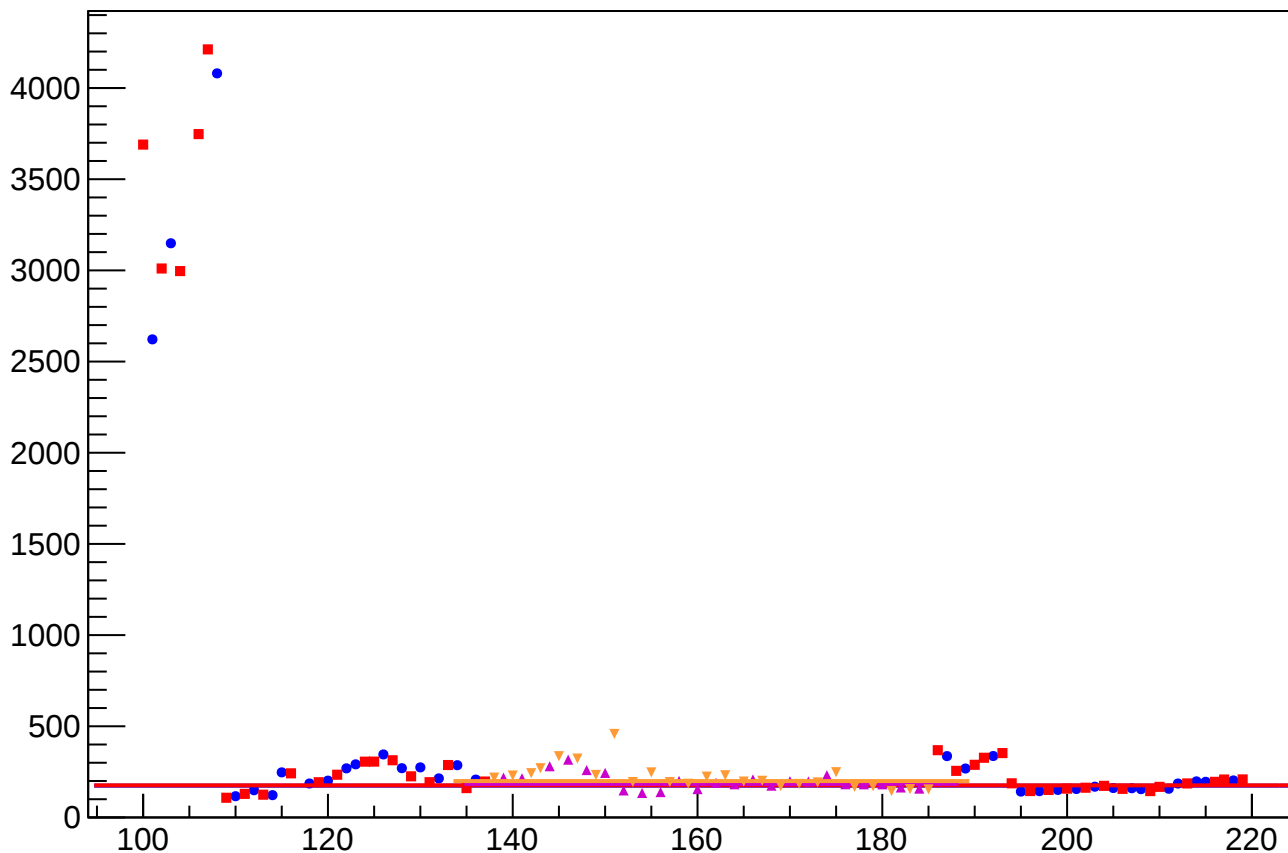
Right: -72.016+/-31.073 χ^2/NDF : 46.6/69

In: -17.782+/-31.801 χ^2/NDF : 31.3/55

Out: -52.267+/-32.407 χ^2/NDF : 33.5/61

All: -34.699+/-22.698 χ^2/NDF : 65.4/117

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.376+/-0.031 χ^2/NDF : 4597778.9/32

Left Out: 199.536+/-0.034 χ^2/NDF : 1880548.8/24

Right Out: 175.958+/-0.031 χ^2/NDF : 5501459.4/36

Left In: 184.031+/-0.032 χ^2/NDF : 1423454.3/22

Left: 191.398+/-0.024 χ^2/NDF : 3412539.0/47

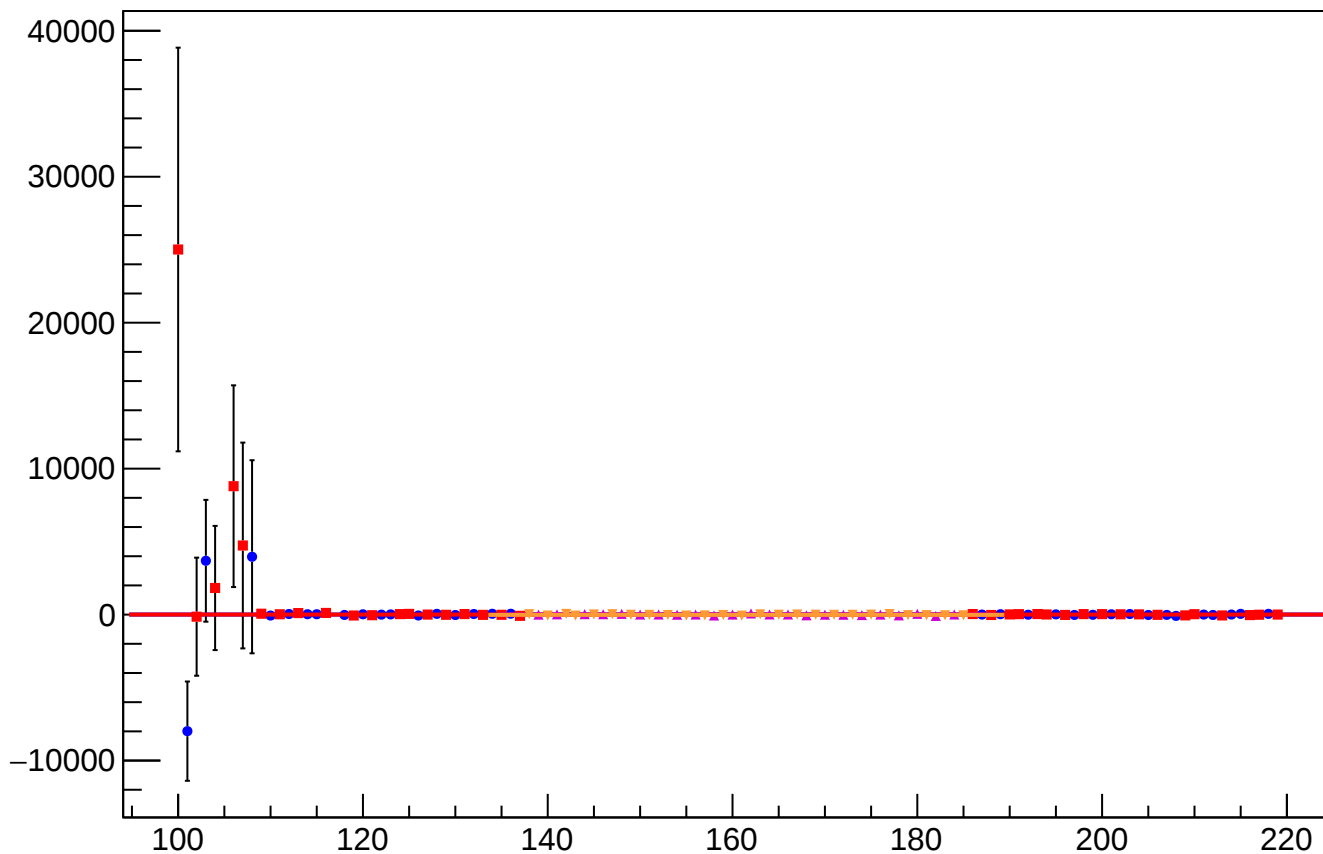
Right: 175.173+/-0.022 χ^2/NDF : 10100534.1/69

In: 179.016+/-0.022 χ^2/NDF : 6067255.0/55

Out: 186.609+/-0.023 χ^2/NDF : 7644198.4/61

All: 182.741+/-0.016 χ^2/NDF : 13767392.3/11

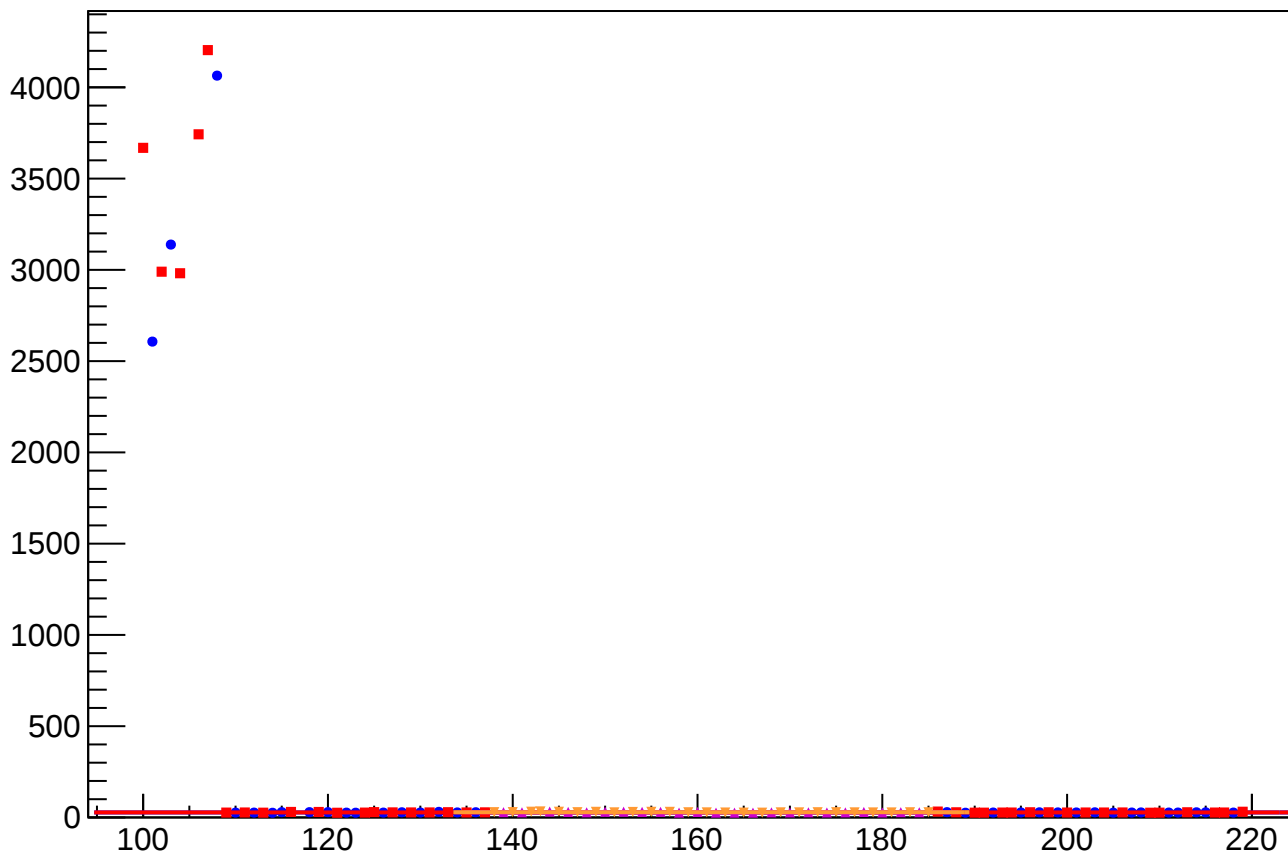
asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.242 ± 6.733 $\chi^2/\text{NDF}: 36.3/32$
 Left Out: -17.580 ± 6.694 $\chi^2/\text{NDF}: 22.3/24$
 Right Out: 3.158 ± 6.587 $\chi^2/\text{NDF}: 39.9/36$
 Left In: 1.038 ± 6.880 $\chi^2/\text{NDF}: 32.4/22$

Left: -8.527 ± 4.798 $\chi^2/\text{NDF}: 58.5/47$
 Right: 3.688 ± 4.708 $\chi^2/\text{NDF}: 76.2/69$
 In: 2.675 ± 4.812 $\chi^2/\text{NDF}: 68.8/55$
 Out: -7.044 ± 4.695 $\chi^2/\text{NDF}: 67.1/61$
 All: -2.305 ± 3.360 $\chi^2/\text{NDF}: 138.0/117$

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.462 $\pm$ 0.005 χ^2 /NDF: 3045847.1/32

Left Out: 28.691 $\pm$ 0.005 χ^2 /NDF: 110483.8/24

Right Out: 27.563 $\pm$ 0.005 χ^2 /NDF: 3537879.1/36

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

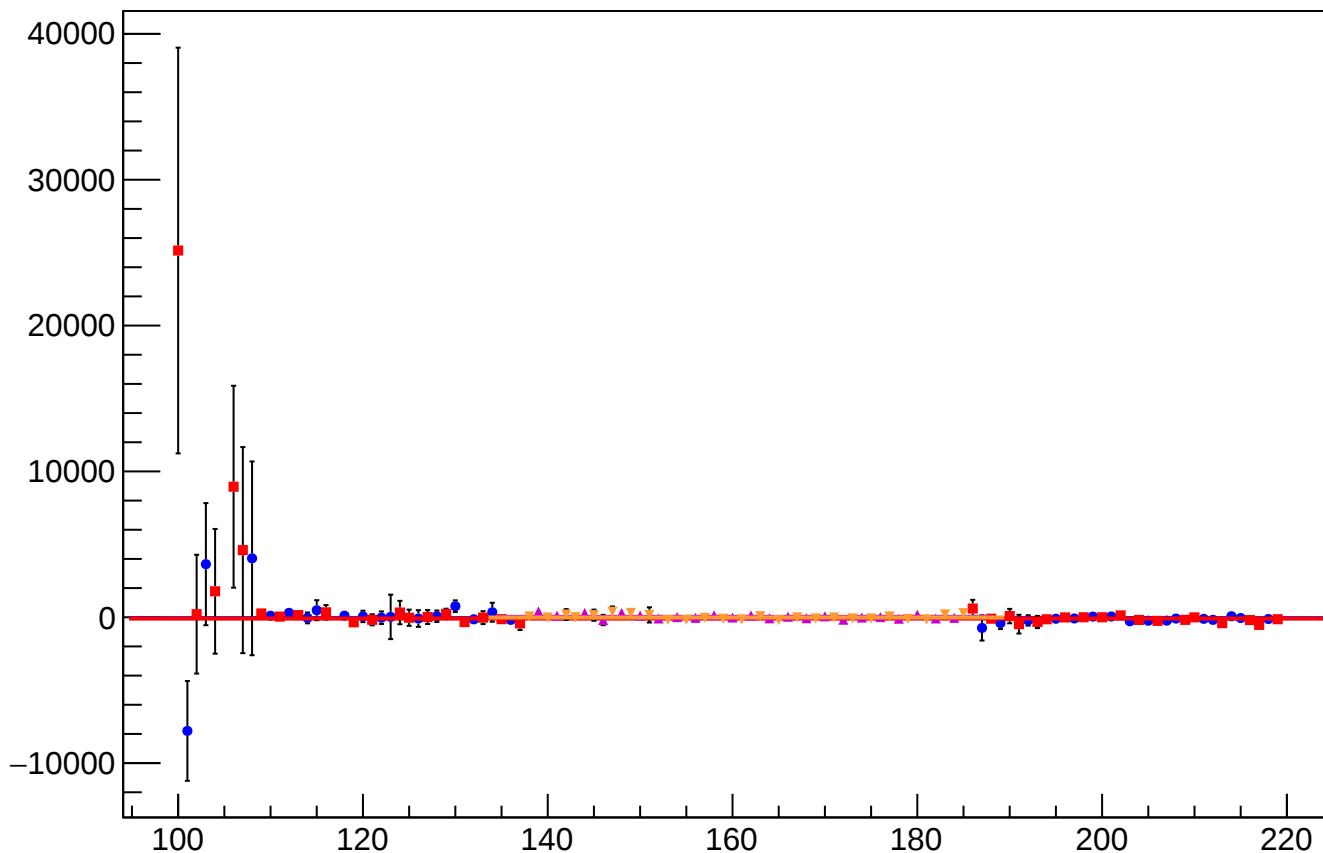
Right: 27.514 $\pm$ 0.003 χ^2 /NDF: 6583954.1/69

In: 28.054 $\pm$ 0.003 χ^2 /NDF: 3202228.2/55

Out: 28.118 $\pm$ 0.003 χ^2 /NDF: 3677220.9/61

All: 28.087 $\pm$ 0.002 χ^2 /NDF: 6879626.7/117

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.863 ± 43.987 $\chi^2/\text{NDF}: 22.2/32$

Left Out: -15.483 ± 48.109 $\chi^2/\text{NDF}: 8.7/24$

Right Out: -87.186 ± 43.641 $\chi^2/\text{NDF}: 25.5/36$

Left In: 27.009 ± 45.785 $\chi^2/\text{NDF}: 7.8/22$

Left: 6.815 ± 33.166 $\chi^2/\text{NDF}: 16.9/47$

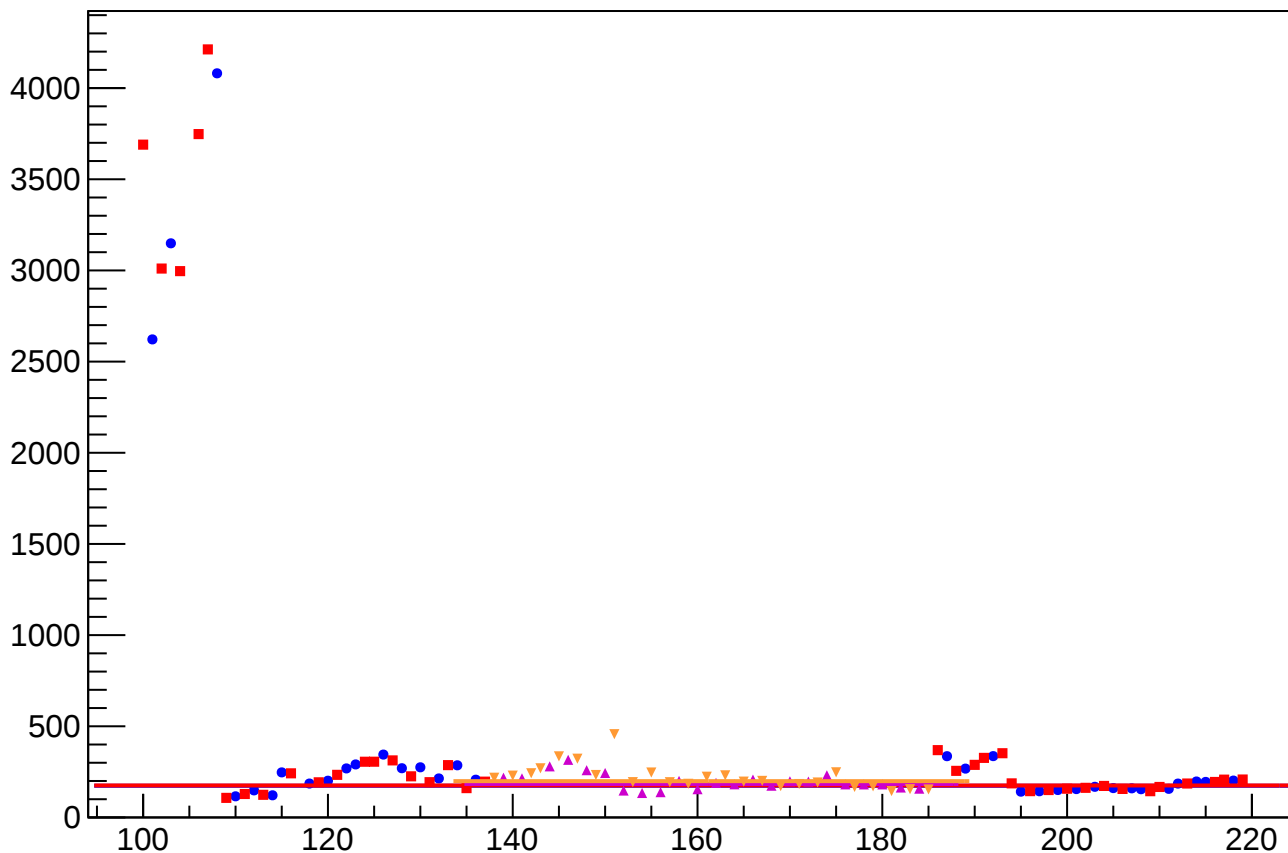
Right: -73.633 ± 30.980 $\chi^2/\text{NDF}: 47.9/69$

In: -18.165 ± 31.720 $\chi^2/\text{NDF}: 31.9/55$

Out: -54.818 ± 32.323 $\chi^2/\text{NDF}: 35.4/61$

All: -36.147 ± 22.640 $\chi^2/\text{NDF}: 67.9/117$

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.806 $\pm$ 0.031 χ^2 /NDF: 4611297.5/32

Left Out: 199.094 $\pm$ 0.034 χ^2 /NDF:1880343.4/24

Right Out: 175.401 $\pm$ 0.031 χ^2 /NDF: 5519608.0/36

Left In: 183.667 $\pm$ 0.032 χ^2 /NDF:1422895.7/22

Left: 190.999 $\pm$ 0.023 χ^2 /NDF: 3411149.8/47

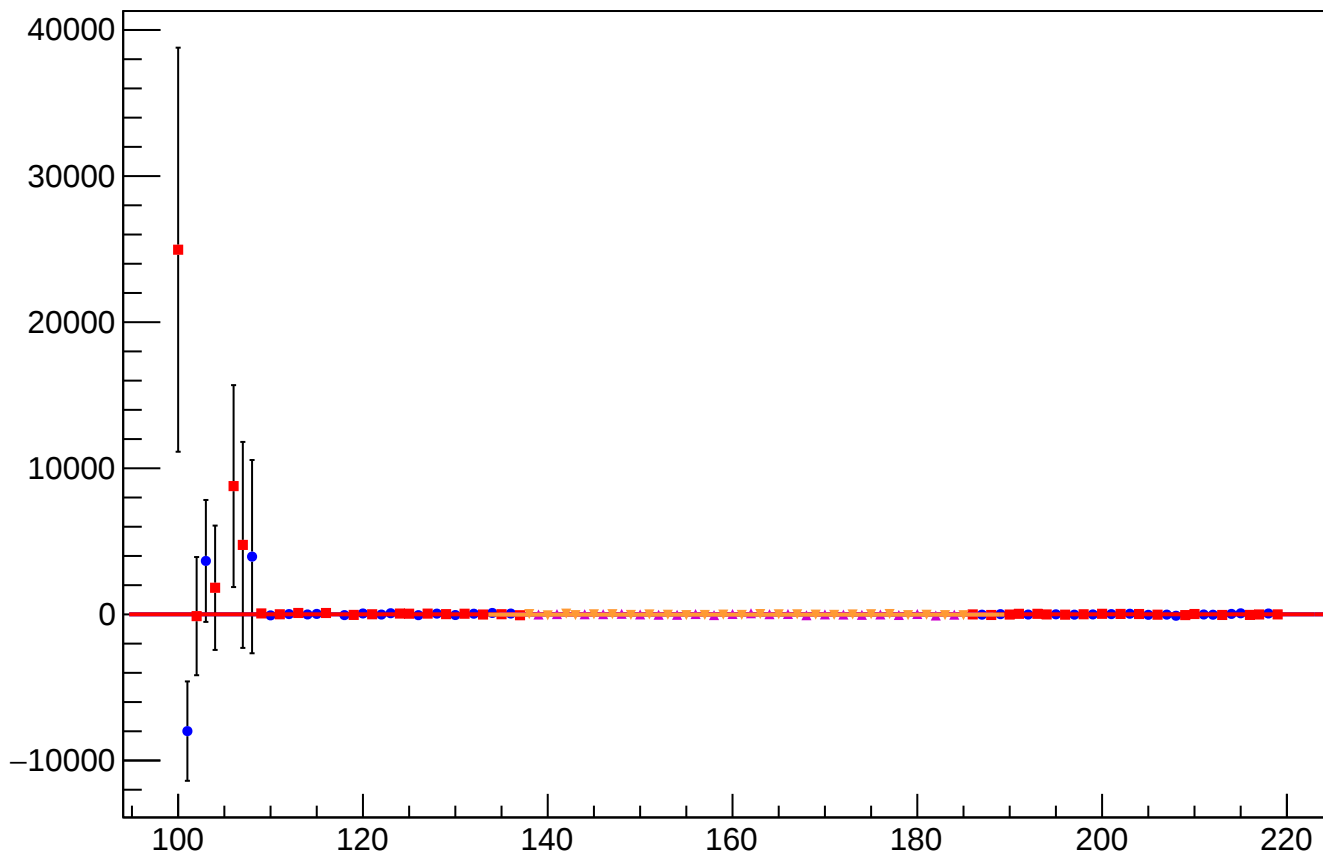
Right: 174.610 $\pm$ 0.022 χ^2 /NDF: 10132231.3/69

In: 178.539 $\pm$ 0.022 χ^2 /NDF:6082441.8/55

Out: 186.096 $\pm$ 0.023 χ^2 /NDF:7666056.9/61

All: 182.247 $\pm$ 0.016 χ^2 /NDF: 13804191.0/13

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.072 ± 6.687 $\chi^2/\text{NDF}: 45.1/32$

Left Out: -15.006 ± 6.723 $\chi^2/\text{NDF}: 17.5/24$

Right Out: 6.231 ± 6.551 $\chi^2/\text{NDF}: 34.9/36$

Left In: -0.702 ± 6.909 $\chi^2/\text{NDF}: 26.4/22$

Left: -8.049 ± 4.819 $\chi^2/\text{NDF}: 46.0/47$

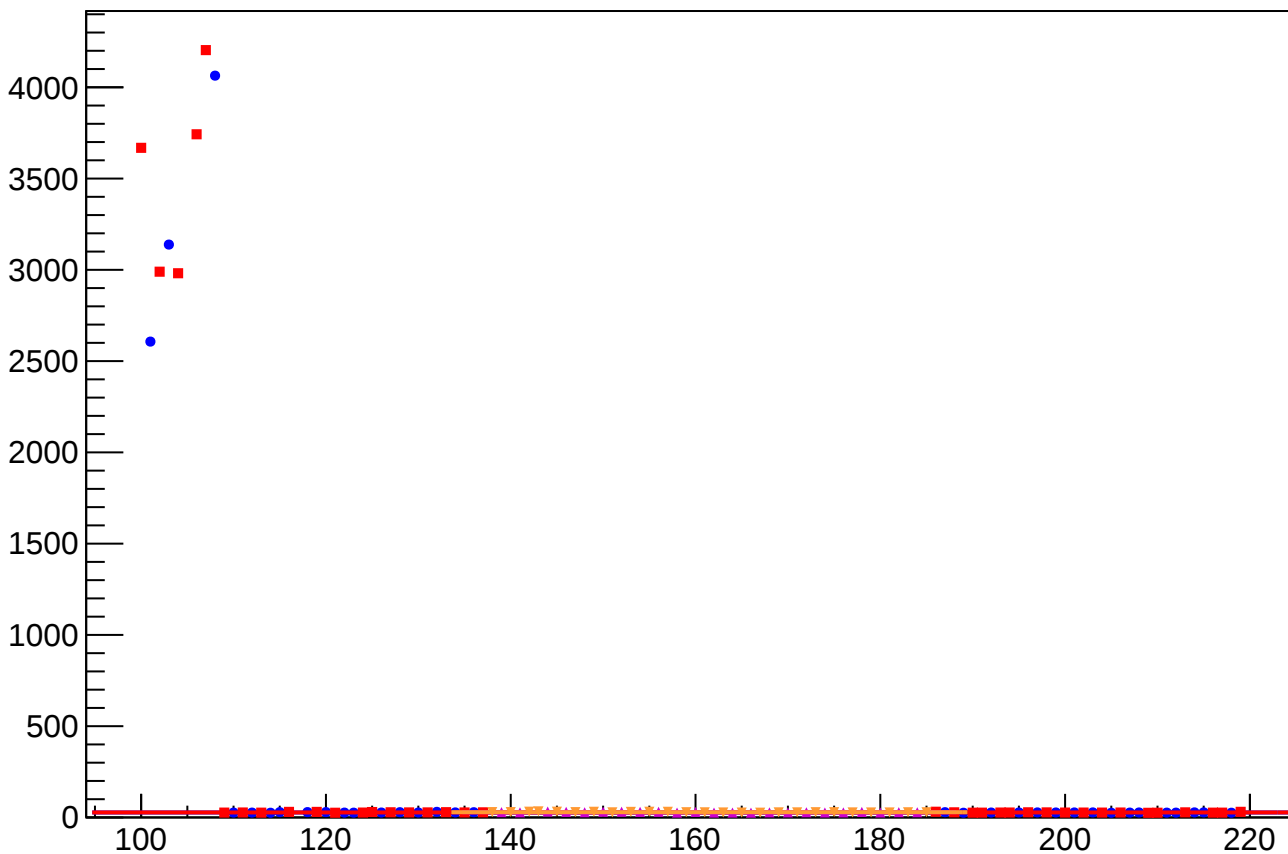
Right: 5.663 ± 4.680 $\chi^2/\text{NDF}: 80.0/69$

In: 2.279 ± 4.805 $\chi^2/\text{NDF}: 71.8/55$

Out: -4.112 ± 4.692 $\chi^2/\text{NDF}: 57.5/61$

All: -0.993 ± 3.357 $\chi^2/\text{NDF}: 130.2/117$

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.273+/-0.005 χ^2/NDF : 3056507.0/32

Left Out: 28.813+/-0.005 χ^2/NDF : 121973.8/24

Right Out: 27.411+/-0.005 χ^2/NDF : 3541418.1/36

Left In: 28.792+/-0.005 χ^2/NDF : 129393.1/22

Left: 28.803+/-0.003 χ^2/NDF : 251375.8/47

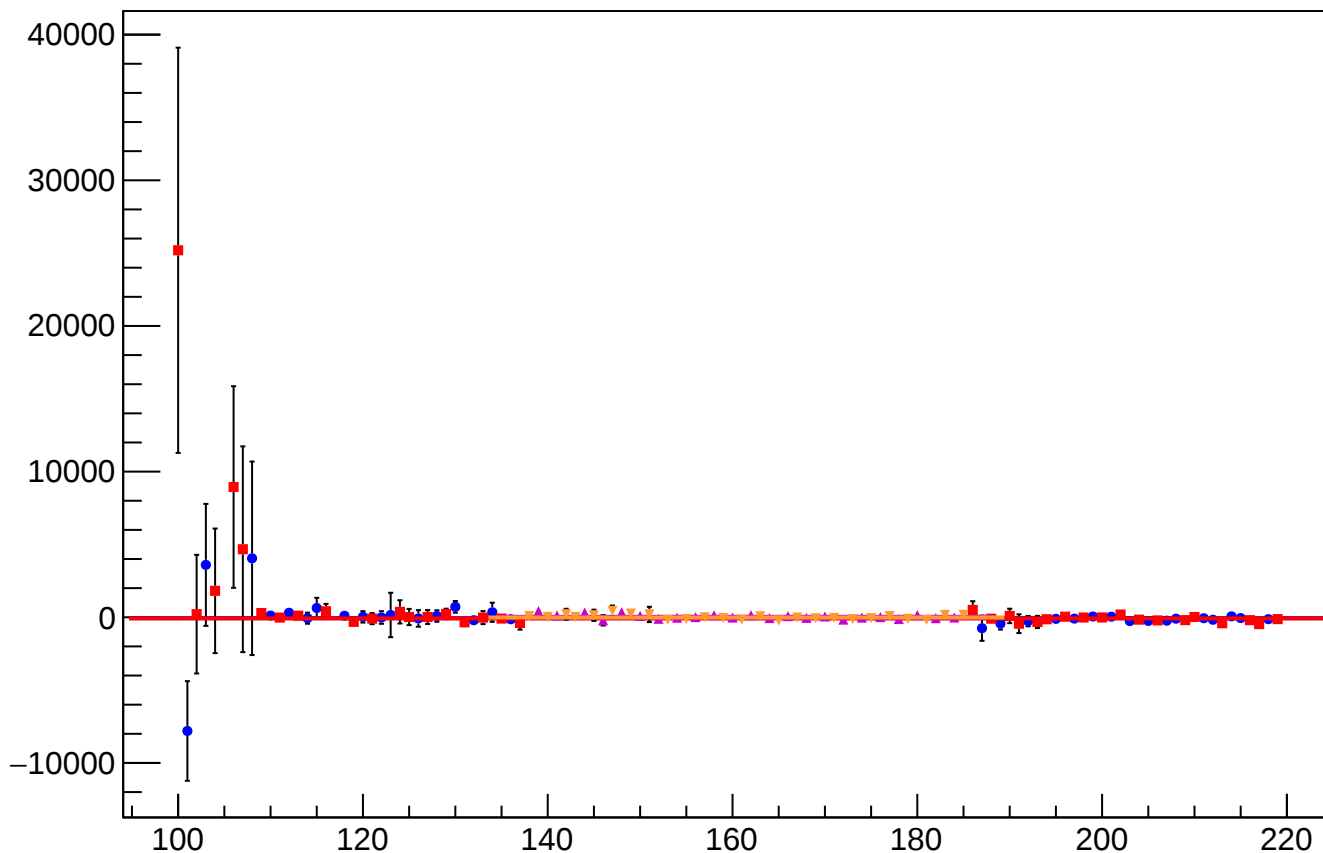
Right: 27.343+/-0.003 χ^2/NDF : 6598360.0/69

In: 28.008+/-0.003 χ^2/NDF : 3235870.7/55

Out: 28.093+/-0.003 χ^2/NDF : 3708008.4/61

All: 28.052+/-0.002 χ^2/NDF : 6944205.0/117

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.322 ± 44.277 χ^2/NDF : 22.3/32

Left Out: -15.548 ± 48.688 χ^2/NDF : 8.0/24

Right Out: -78.528 ± 43.957 χ^2/NDF : 24.3/36

Left In: 31.170 ± 46.359 χ^2/NDF : 8.2/22

Left: 8.955 ± 33.574 χ^2/NDF : 16.6/47

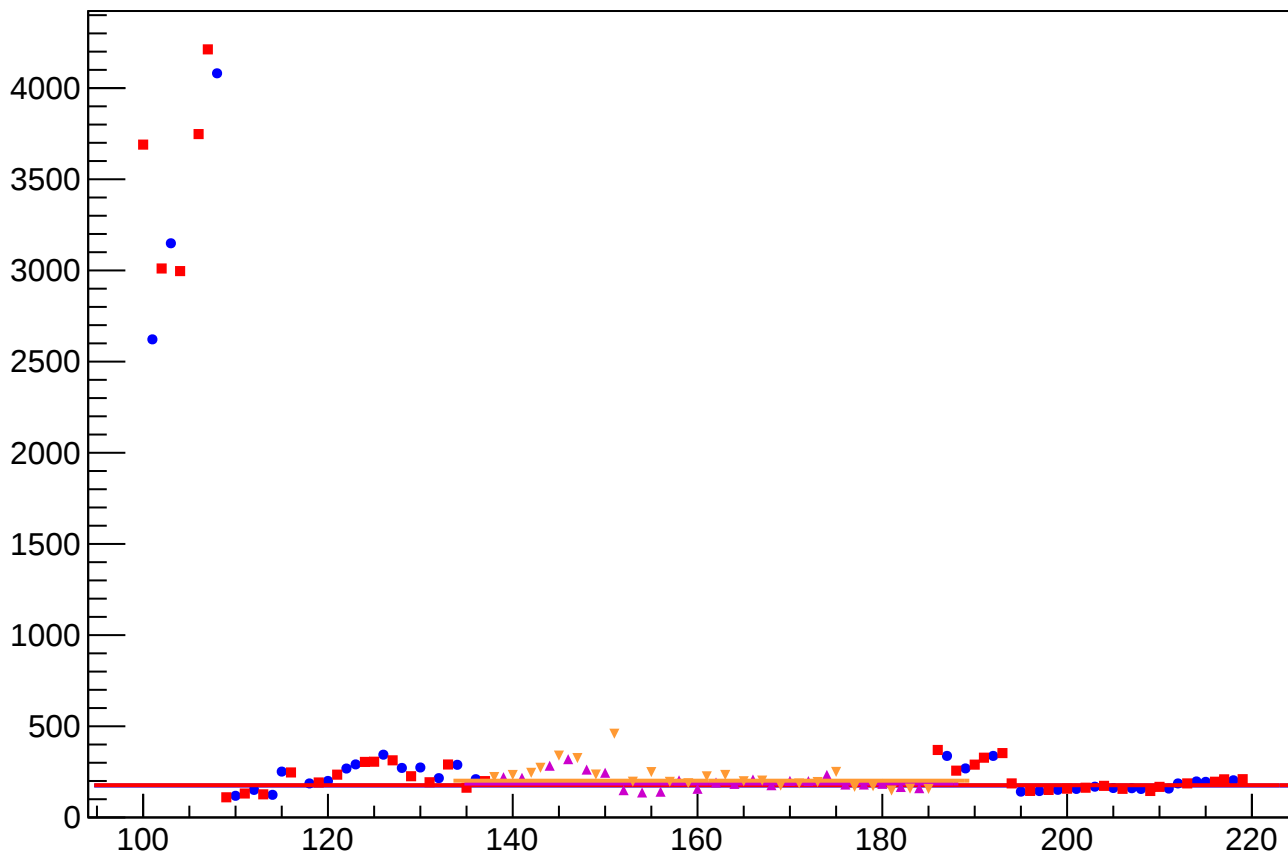
Right: -68.995 ± 31.195 χ^2/NDF : 46.7/69

In: -16.153 ± 32.019 χ^2/NDF : 32.5/55

Out: -50.246 ± 32.627 χ^2/NDF : 33.2/61

All: -32.879 ± 22.853 χ^2/NDF : 66.3/117

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.048+/-0.031 χ^2/NDF : 4576055.3/32

Left Out: 201.600+/-0.034 χ^2/NDF : 1857453.2/24

Right Out: 176.850+/-0.031 χ^2/NDF : 5459461.5/36

Left In: 186.107+/-0.033 χ^2/NDF : 1391327.2/22

Left: 193.474+/-0.024 χ^2/NDF : 3354998.7/47

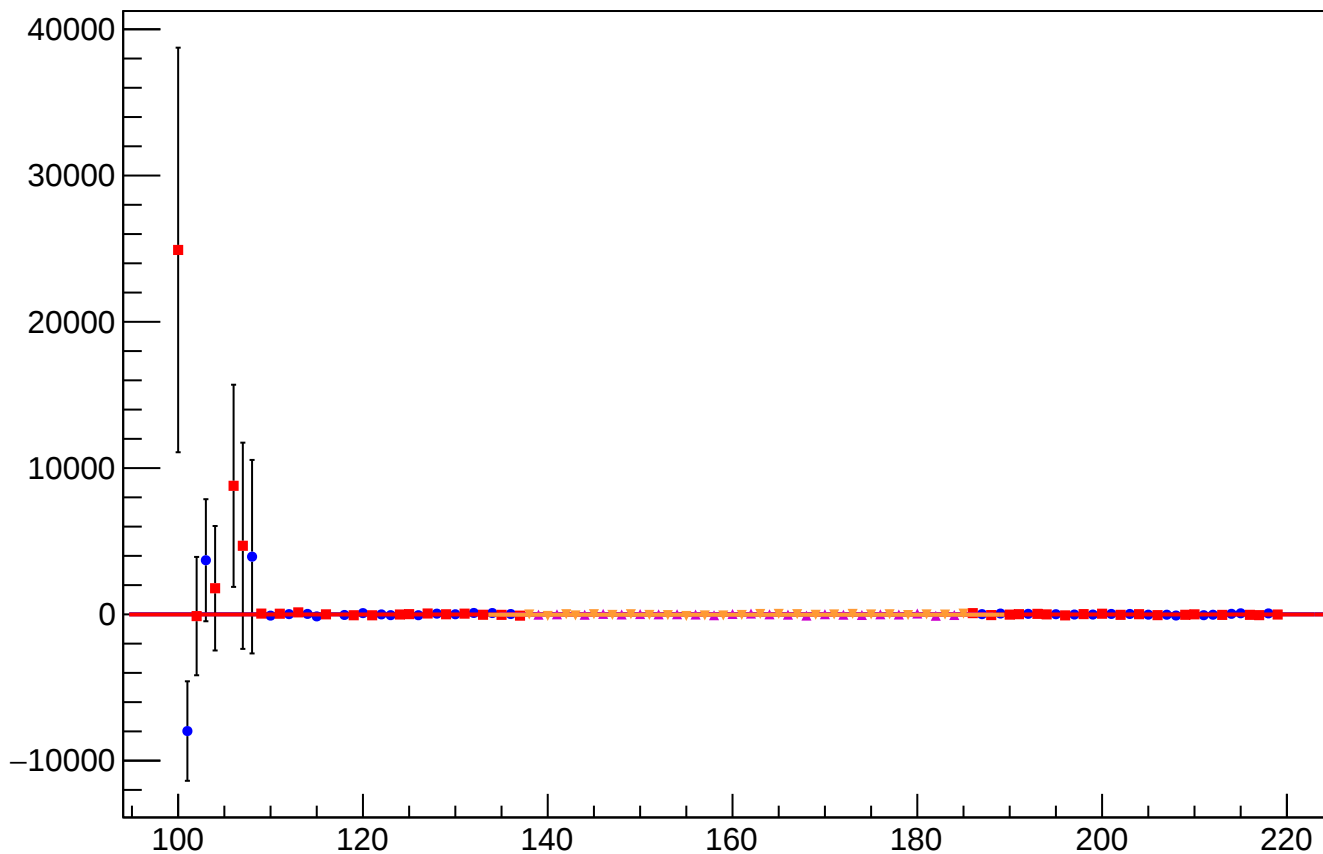
Right: 175.956+/-0.022 χ^2/NDF : 10037186.8/69

In: 180.323+/-0.023 χ^2/NDF : 6026905.1/55

Out: 187.965+/-0.023 χ^2/NDF : 7601639.5/61

All: 184.072+/-0.016 χ^2/NDF : 13684423.7/111

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.200 ± 8.160 $\chi^2/\text{NDF}: 38.0/32$

Left Out: -23.360 ± 8.064 $\chi^2/\text{NDF}: 25.8/24$

Right Out: -6.542 ± 7.979 $\chi^2/\text{NDF}: 38.1/36$

Left In: -6.001 ± 8.309 $\chi^2/\text{NDF}: 21.1/22$

Left: -14.939 ± 5.787 $\chi^2/\text{NDF}: 49.2/47$

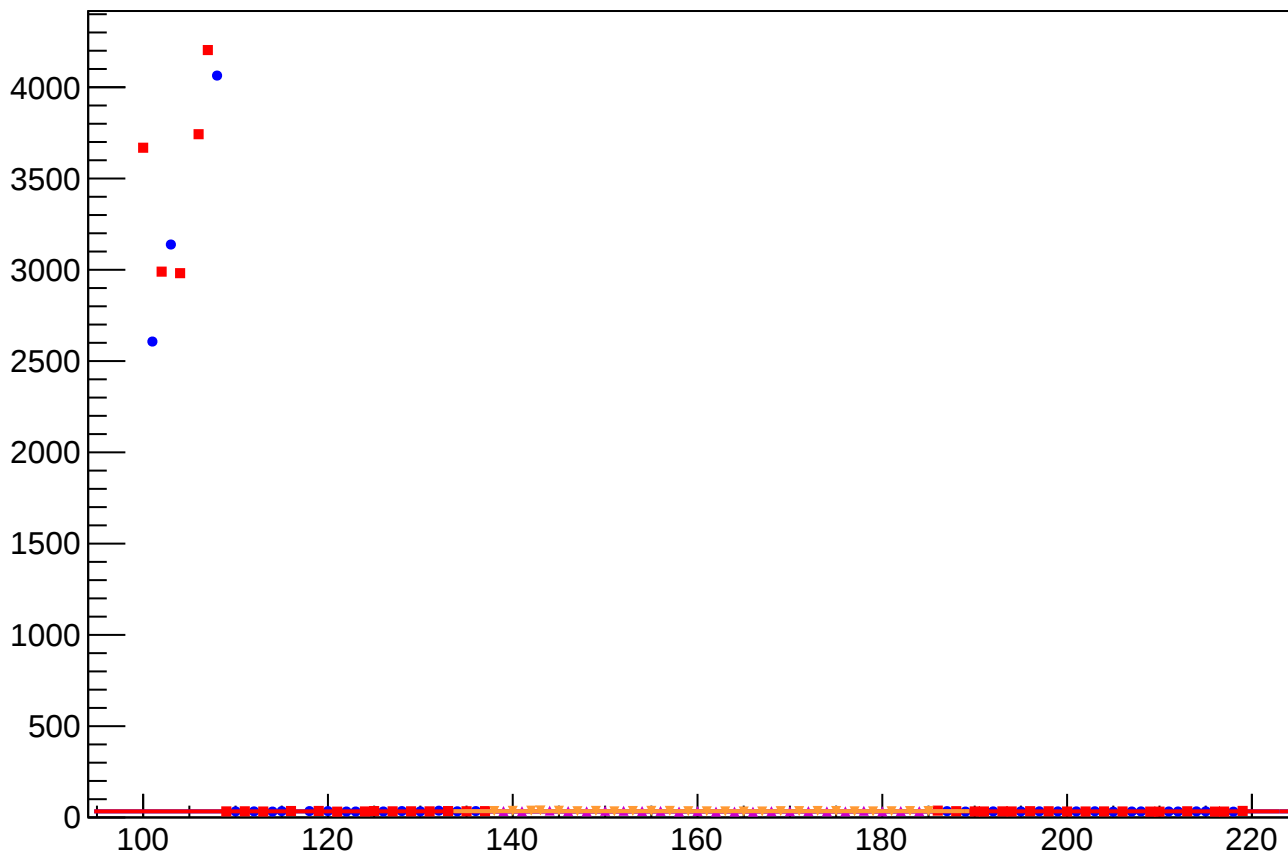
Right: 0.175 ± 5.705 $\chi^2/\text{NDF}: 77.5/69$

In: 0.719 ± 5.822 $\chi^2/\text{NDF}: 60.4/55$

Out: -14.862 ± 5.672 $\chi^2/\text{NDF}: 66.1/61$

All: -7.275 ± 4.063 $\chi^2/\text{NDF}: 130.2/117$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.302 $\pm$ 0.006 χ^2 /NDF: 3024832.4/32

Left Out: 34.614 $\pm$ 0.006 χ^2 /NDF: 57946.1/24

Right Out: 33.439 $\pm$ 0.006 χ^2 /NDF: 3485640.8/36

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

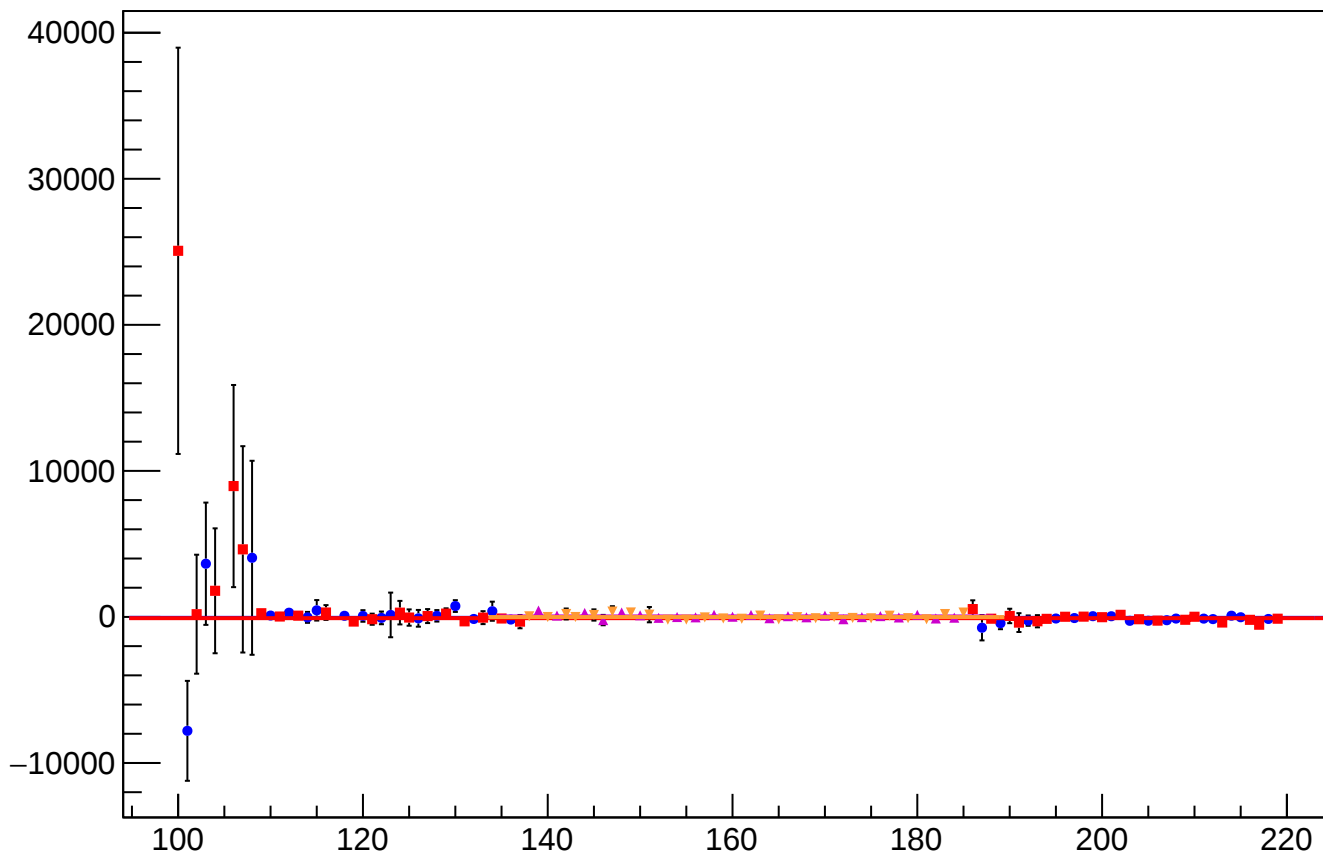
Right: 33.372 $\pm$ 0.004 χ^2 /NDF: 6510762.4/69

In: 33.981 $\pm$ 0.004 χ^2 /NDF: 3113352.6/55

Out: 34.021 $\pm$ 0.004 χ^2 /NDF: 3565044.3/61

All: 34.001 $\pm$ 0.003 χ^2 /NDF: 6678444.2/117

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -62.366 $\pm$ 44.152 χ^2 /NDF: 22.1/32

Left Out: -8.916 $\pm$ 48.615 χ^2 /NDF:8.6/24

Right Out: -84.262 $\pm$ 43.800 χ^2 /NDF: 23.6/36

Left In: 34.127 $\pm$ 46.296 χ^2 /NDF:7.4/22

Left: 13.656 $\pm$ 33.526 χ^2 /NDF: 16.5/47

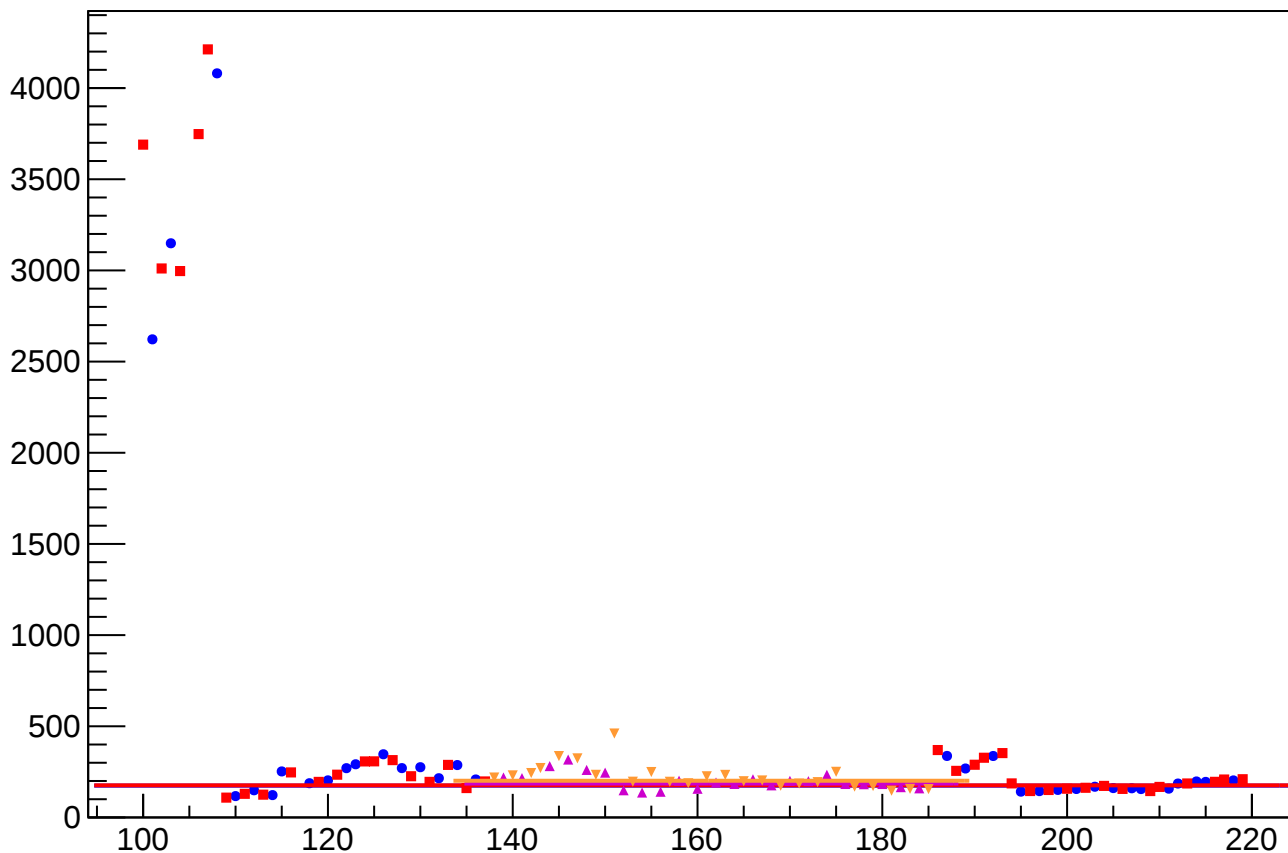
Right: -73.401 $\pm$ 31.095 χ^2 /NDF: 45.8/69

In: -16.406 $\pm$ 31.951 χ^2 /NDF:31.8/55

Out: -50.504 $\pm$ 32.541 χ^2 /NDF:33.5/61

All: -33.143 $\pm$ 22.799 χ^2 /NDF: 65.9/117

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.475+/-0.031 χ^2/NDF : 4606113.1/32

Left Out: 201.296+/-0.034 χ^2/NDF :1851134.1/24

Right Out: 176.080+/-0.031 χ^2/NDF : 5509417.2/36

Left In: 185.854+/-0.033 χ^2/NDF :1381771.9/22

Left: 193.198+/-0.024 χ^2/NDF : 3338733.9/47

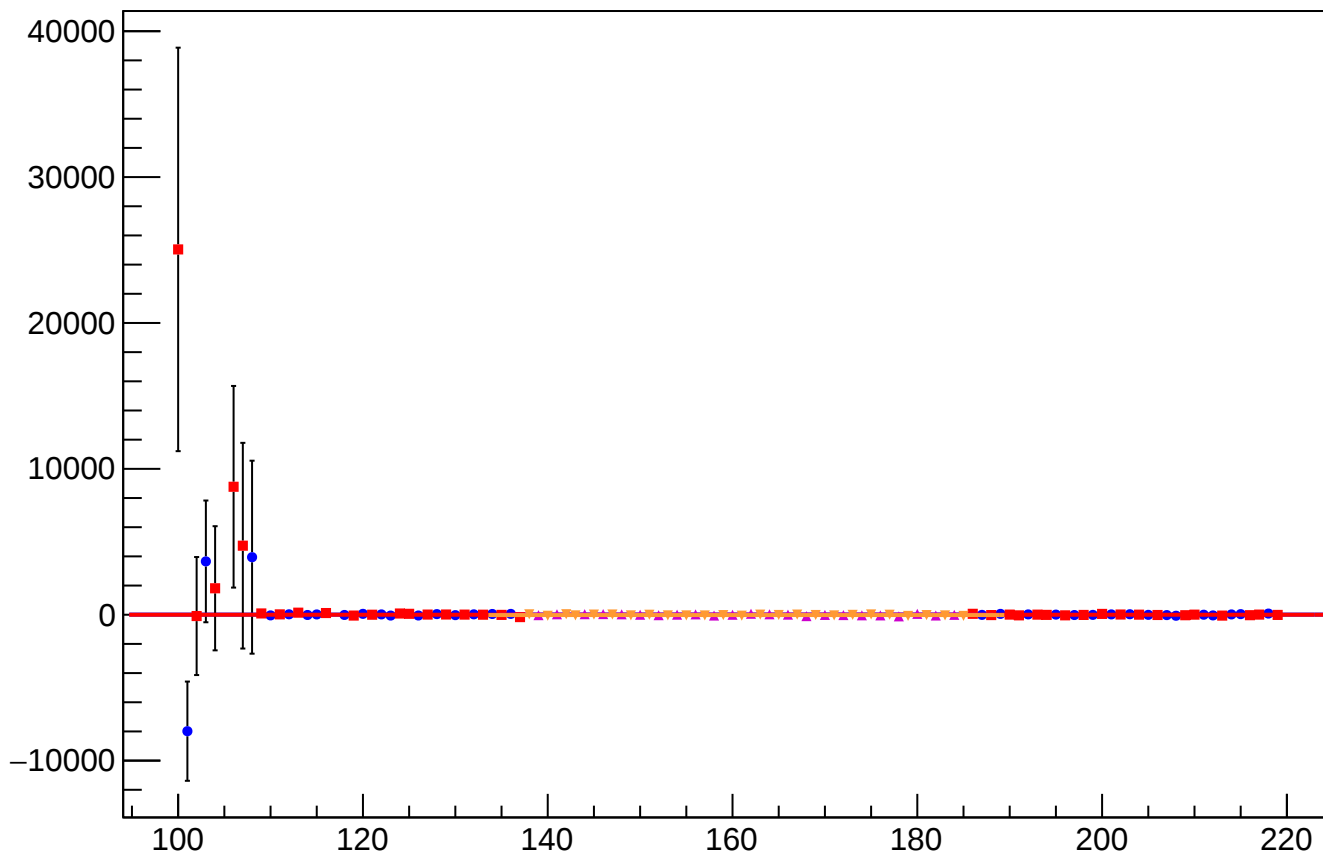
Right: 175.284+/-0.022 χ^2/NDF : 10116860.7/69

In: 179.895+/-0.023 χ^2/NDF :6051152.3/55

Out: 187.378+/-0.023 χ^2/NDF :7657565.1/61

All: 183.568+/-0.016 χ^2/NDF : 13762560.5/131

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.898+/-7.379 χ^2/NDF : 32.0/32

Left Out: -22.879+/-7.340 χ^2/NDF : 18.8/24

Right Out: 0.398+/-7.220 χ^2/NDF : 42.9/36

Left In: -5.943+/-7.550 χ^2/NDF : 38.3/22

Left: -14.649+/-5.263 χ^2/NDF : 59.7/47

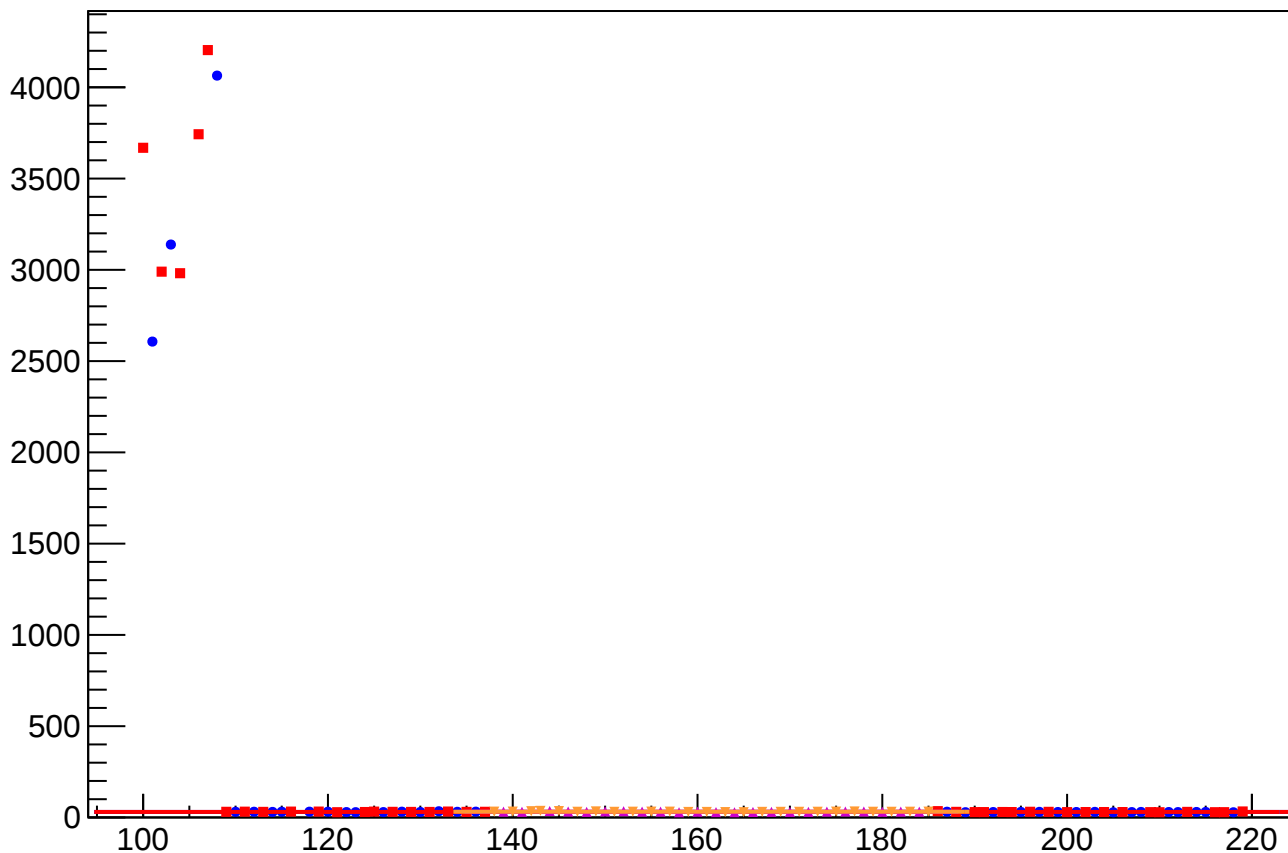
Right: 4.555+/-5.161 χ^2/NDF : 75.6/69

In: 1.647+/-5.277 χ^2/NDF : 72.3/55

Out: -11.048+/-5.147 χ^2/NDF : 66.8/61

All: -4.859+/-3.685 χ^2/NDF : 142.0/117

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.104+/-0.005 χ^2/NDF : 3045014.5/32

Left Out: 31.482+/-0.005 χ^2/NDF : 82437.2/24

Right Out: 30.231+/-0.005 χ^2/NDF : 3508630.3/36

Left In: 31.484+/-0.005 χ^2/NDF : 87981.1/22

Left: 31.483+/-0.004 χ^2/NDF : 170418.5/47

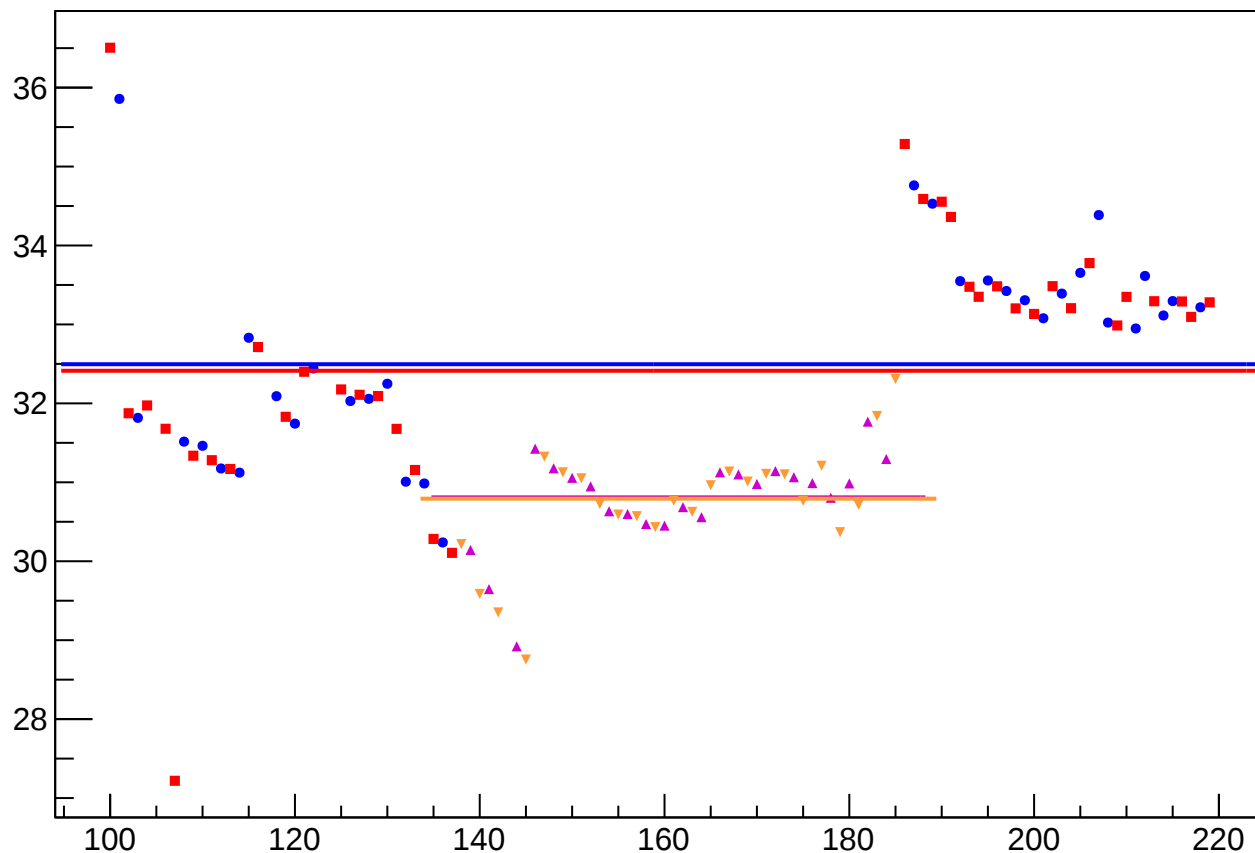
Right: 30.169+/-0.004 χ^2/NDF : 6553945.6/69

In: 30.778+/-0.004 χ^2/NDF : 3167194.9/55

Out: 30.846+/-0.004 χ^2/NDF : 3620603.6/61

All: 30.813+/-0.003 χ^2/NDF : 6787965.5/117

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.496+/-0.000 χ^2/NDF : 3067889453.4/31

Left Out: 30.793+/-0.000 χ^2/NDF : 1007261340.7/23

Right Out: 32.413+/-0.000 χ^2/NDF : 2719568705.6/35

Left In: 30.809+/-0.000 χ^2/NDF : 821961762.3/22

Left: 30.801+/-0.000 χ^2/NDF : 1829591088.1/46

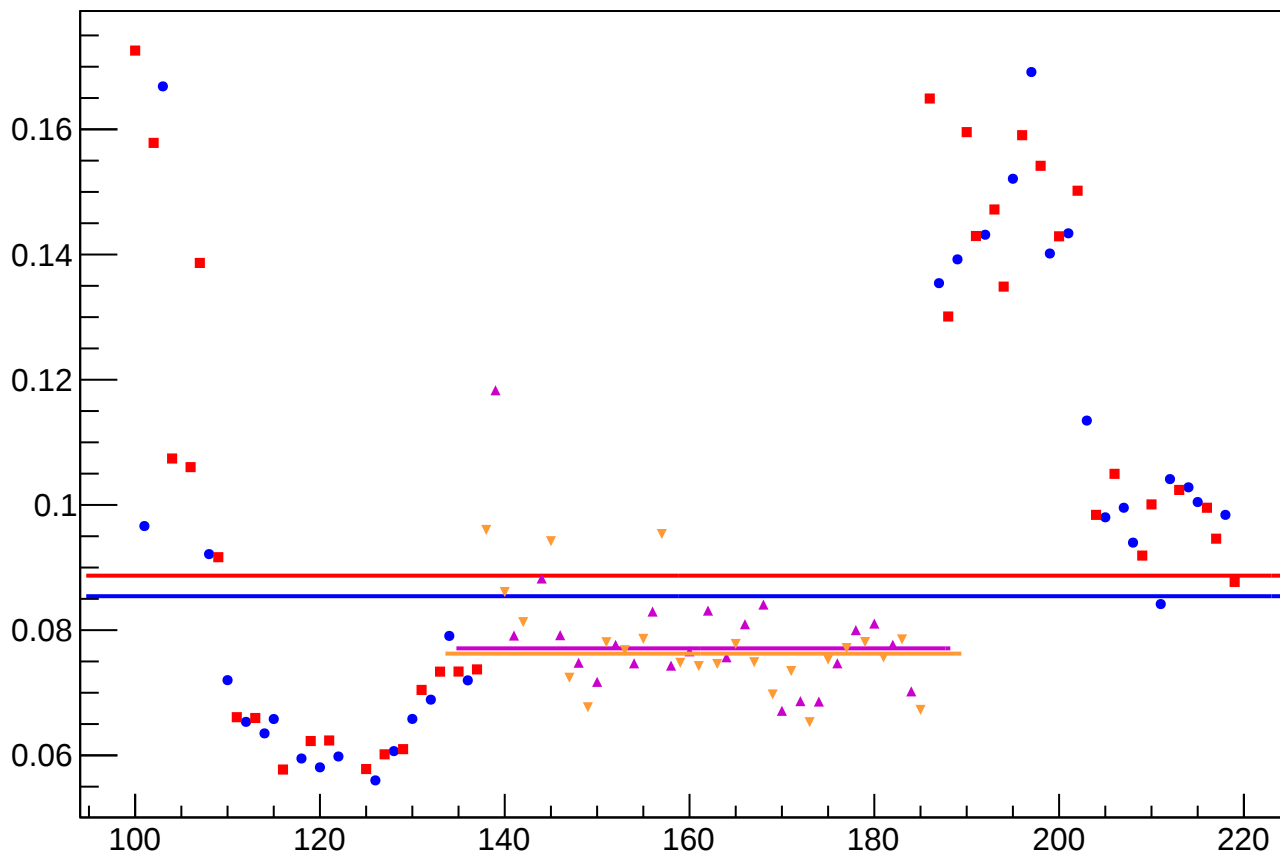
Right: 32.455+/-0.000 χ^2/NDF : 5794683246.4/67

In: 31.557+/-0.000 χ^2/NDF : 7251368779.4/54

Out: 31.491+/-0.000 χ^2/NDF : 6851502335.2/59

All: 31.524+/-0.000 χ^2/NDF : 14113173662.8

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.085+/-0.000 χ^2/NDF : 3304031.0/31

Left Out: 0.076+/-0.000 χ^2/NDF :277876.5/23

Right Out: 0.089+/-0.000 χ^2/NDF : 3682932.1/35

Left In: 0.077+/-0.000 χ^2/NDF :325844.3/22

Left: 0.077+/-0.000 χ^2/NDF : 605642.6/46

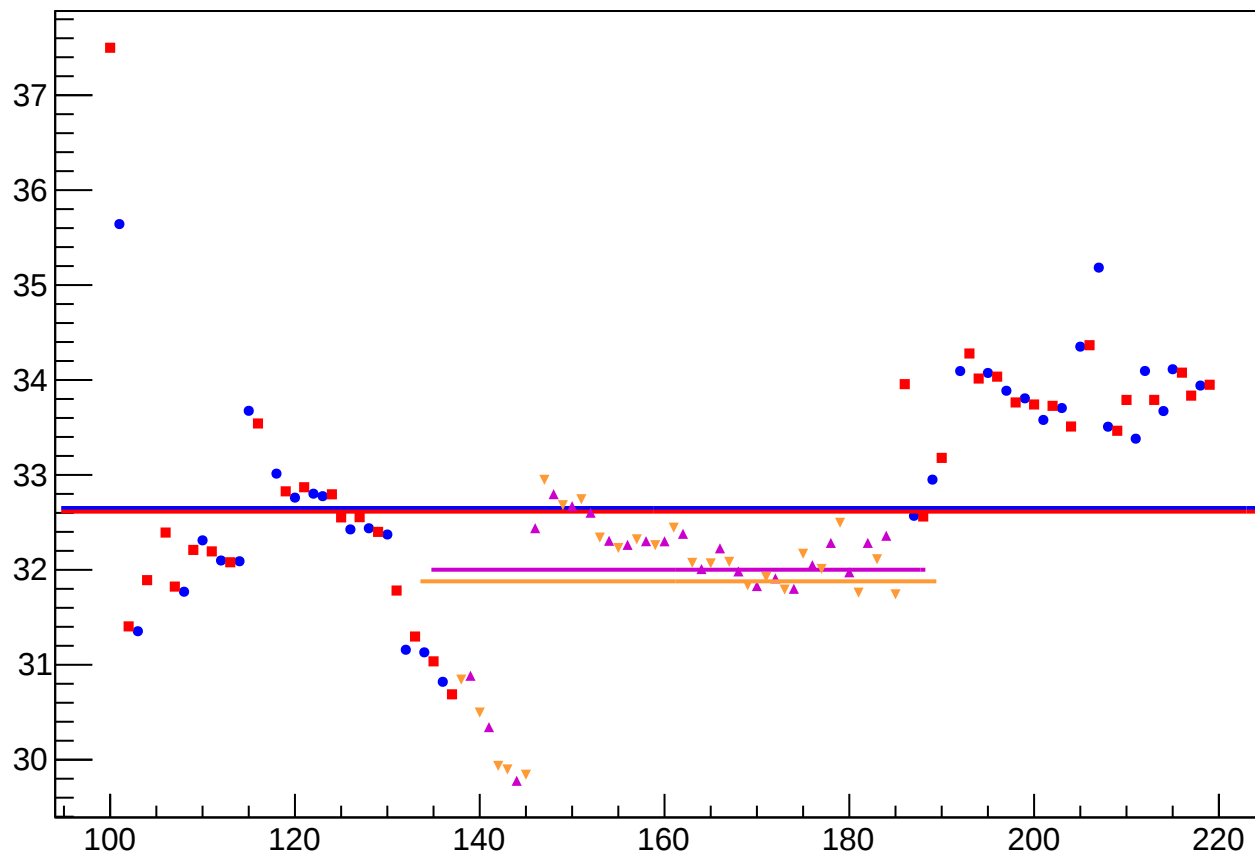
Right: 0.087+/-0.000 χ^2/NDF : 7009669.0/67

In: 0.081+/-0.000 χ^2/NDF :3793922.4/54

Out: 0.082+/-0.000 χ^2/NDF :4330112.4/59

All: 0.081+/-0.000 χ^2/NDF : 8127406.3/114

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.651+/-0.000

χ^2/NDF : 1693454564.7/32

Left: 31.939+/-0.000

χ^2/NDF : 3408370857.8/47

Left Out: 31.879+/-0.000

χ^2/NDF : 1976281391.1/24

Right: 32.632+/-0.000

χ^2/NDF : 2773801565.5/68

Right Out: 32.613+/-0.000

χ^2/NDF : 1079560555.3/35

In: 32.184+/-0.000

χ^2/NDF : 3431456318.6/55

Out: 32.080+/-0.000

χ^2/NDF : 3480826610.3/60

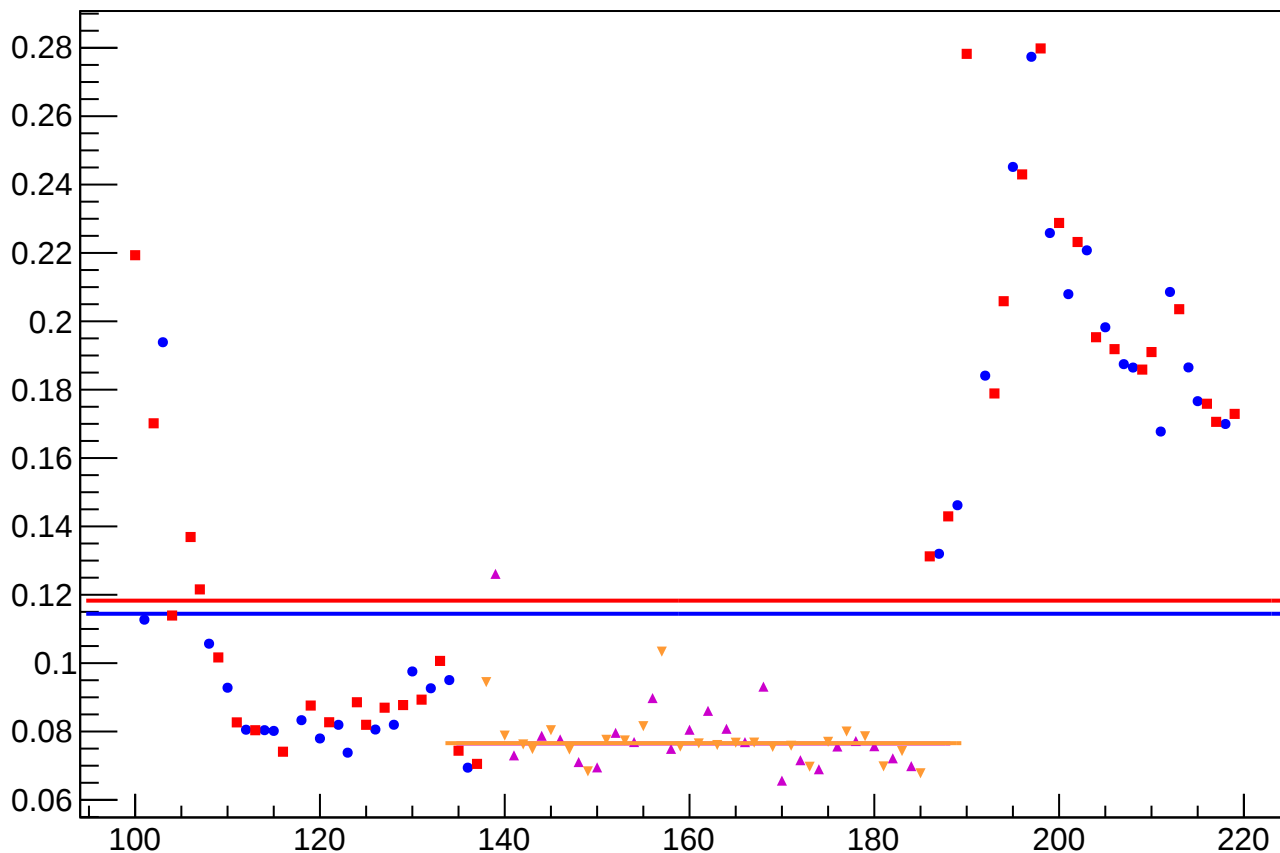
Left In: 32.001+/-0.000

χ^2/NDF : 1411110671.9/22

All: 32.131+/-0.000

χ^2/NDF : 6933325896.2/100

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.114 $\pm$ 0.000 χ^2 /NDF: 5793230.0/32

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:209648.5/24

Right Out: 0.118 $\pm$ 0.000 χ^2 /NDF: 5548873.3/35

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

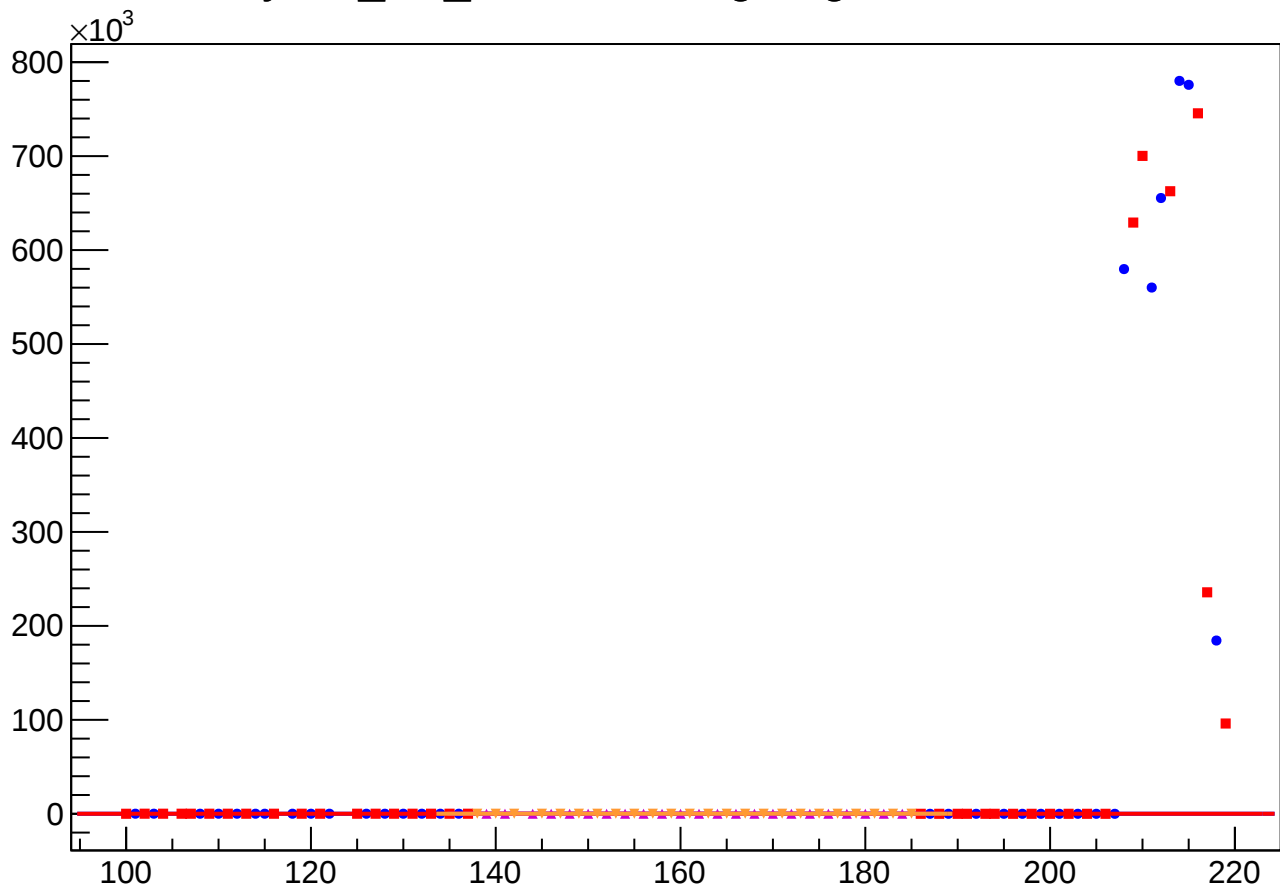
Right: 0.116 $\pm$ 0.000 χ^2 /NDF: 11358044.6/68

In: 0.087 $\pm$ 0.000 χ^2 /NDF:8453564.0/55

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:8500513.5/60

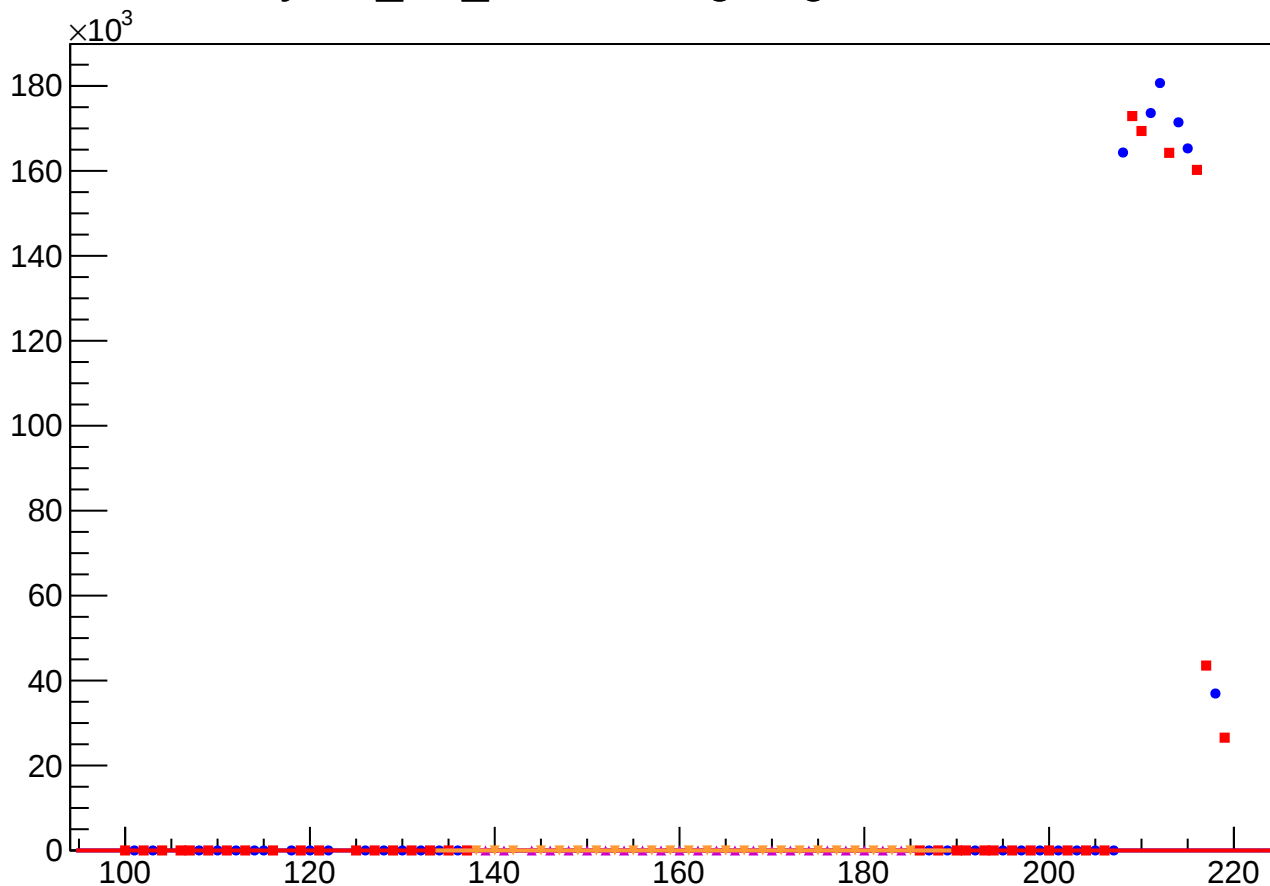
All: 0.088 $\pm$ 0.000 χ^2 /NDF: 16956802.2/116

yield_dsl_mean vs Slug, Sign Corrected



Right In: 54.615+/-0.000	χ^2/NDF : 10853566355060.2/31	Left: 83.355+/-0.000	χ^2/NDF : 17213898269.1/46
Left Out: 83.402+/-0.000	χ^2/NDF : 8756634444.3/23	Right: 52.782+/-0.000	χ^2/NDF : 22419951282804.2/31
Right Out: 51.099+/-0.000	χ^2/NDF : 11528477446503.4/35	In: 71.422+/-0.000	χ^2/NDF : 13699403163756.3/54
Left In: 83.309+/-0.000	χ^2/NDF : 8421247810.9/22	Out: 69.320+/-0.000	χ^2/NDF : 15307030202175.6/54
		All: 70.353+/-0.000	χ^2/NDF : 2903835904138.4/100

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.000 χ^2 /NDF: 8428897.0/31

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:206685.9/23

Right Out: 0.047 $\pm$ 0.000 χ^2 /NDF: 8666630.0/35

Left In: 0.045 $\pm$ 0.000 χ^2 /NDF:242885.4/22

Left: 0.045 $\pm$ 0.000 χ^2 /NDF: 450258.5/46

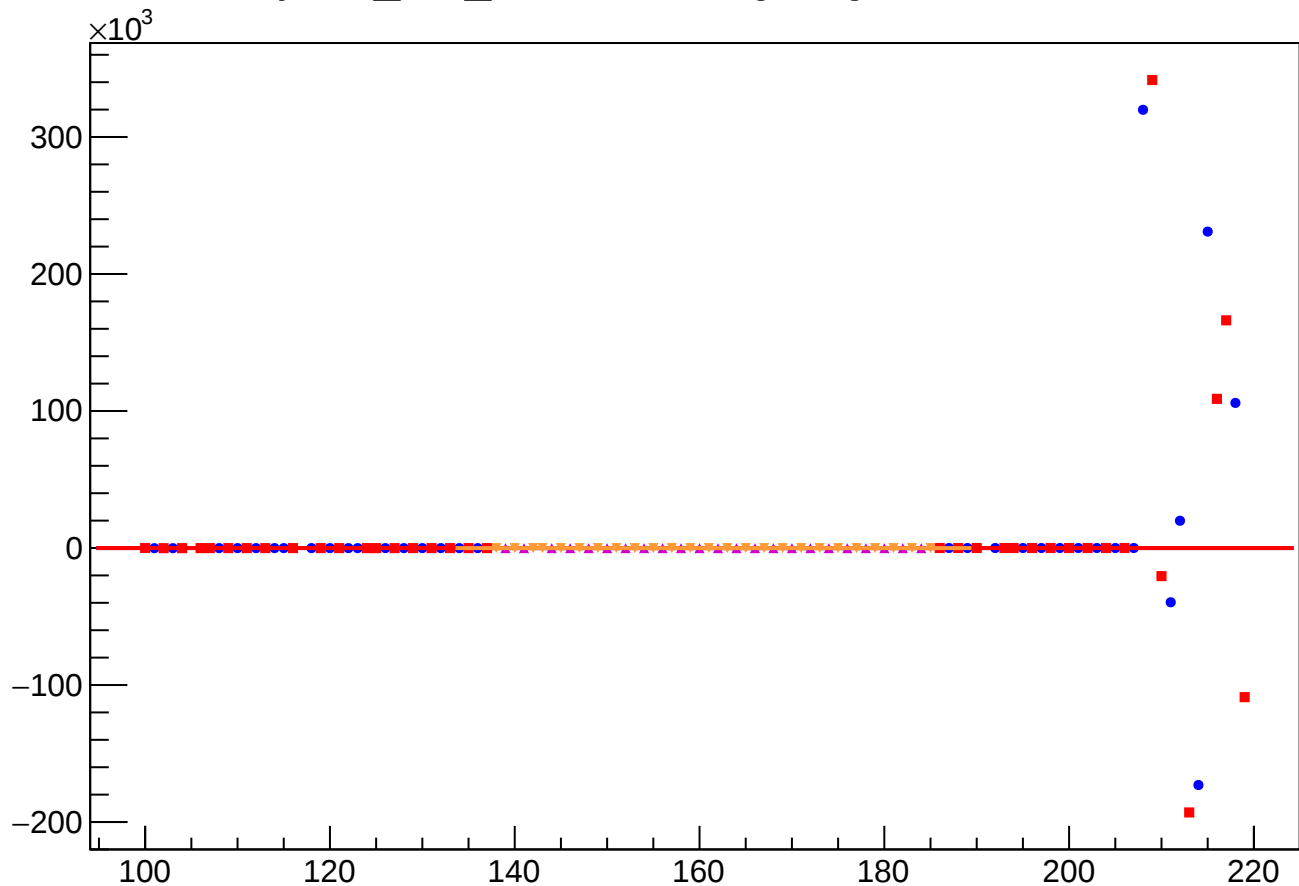
Right: 0.047 $\pm$ 0.000 χ^2 /NDF: 17095530.7/67

In: 0.046 $\pm$ 0.000 χ^2 /NDF:8698211.8/54

Out: 0.046 $\pm$ 0.000 χ^2 /NDF:8892882.5/59

All: 0.046 $\pm$ 0.000 χ^2 /NDF: 17591637.3/114

yield_dsr_mean vs Slug, Sign Corrected



Right In: -30.026+/-0.000

Left Out: -69.461+/-0.000

Right Out: -28.760+/-0.000

Left In: -69.458+/-0.000

χ^2/NDF : 7479131092283.3/32

χ^2/NDF : 49572401.9/24

χ^2/NDF : 7325686267870.0/35

χ^2/NDF : 52798704.3/22

Left: -69.460+/-0.000

Right: -29.369+/-0.000

In: -50.762+/-0.000

Out: -50.075+/-0.000

χ^2/NDF : 102399164.0/47

χ^2/NDF : 14808906766912.0

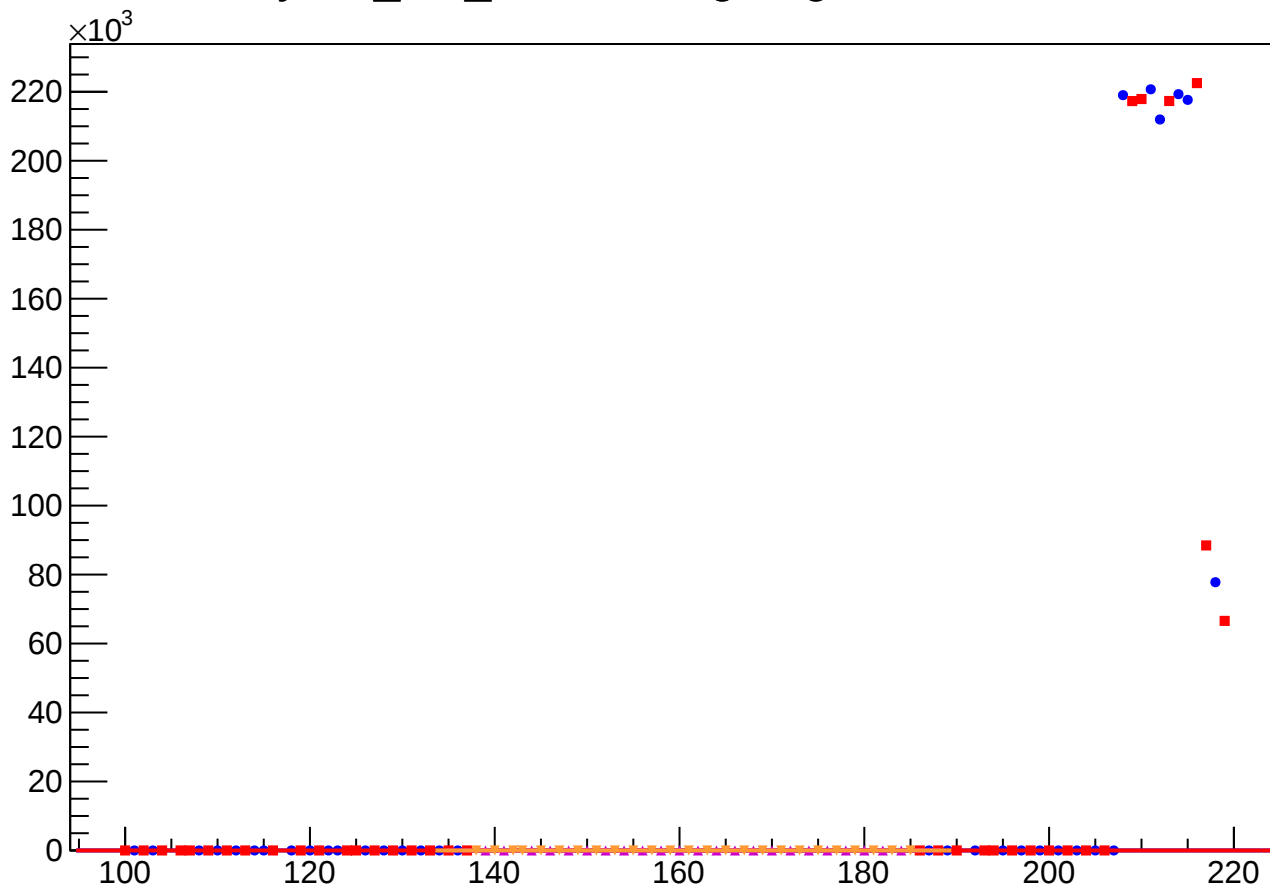
χ^2/NDF : 11497072686750.2/5

χ^2/NDF : 11926095559129.9/

All: -50.406+/-0.000

χ^2/NDF : 234257005757

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 8398639.8/32

Left Out: 0.055 $\pm$ 0.000 χ^2 /NDF:38761.8/24

Right Out: 0.052 $\pm$ 0.000 χ^2 /NDF: 8599855.8/35

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: 16998543.5/68

In: 0.054 $\pm$ 0.000 χ^2 /NDF:8512691.1/55

Out: 0.054 $\pm$ 0.000 χ^2 /NDF:8694509.5/60

All: 0.054 $\pm$ 0.000 χ^2 /NDF: 17207898.3/116

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.022+/-0.000

χ^2/NDF : 204709925183.1/32

Left: 0.025+/-0.000

χ^2/NDF : 12284812437.7/47

Left Out: 0.025+/-0.000

χ^2/NDF : 9641065555.8/24

Right: 0.019+/-0.000

χ^2/NDF : 698024587632.0/69

Right Out: 0.017+/-0.000

χ^2/NDF : 463941835390.7/36

In: 0.023+/-0.000

χ^2/NDF : 226803897581.1/55

Out: 0.021+/-0.000

χ^2/NDF : 574093652112.4/61

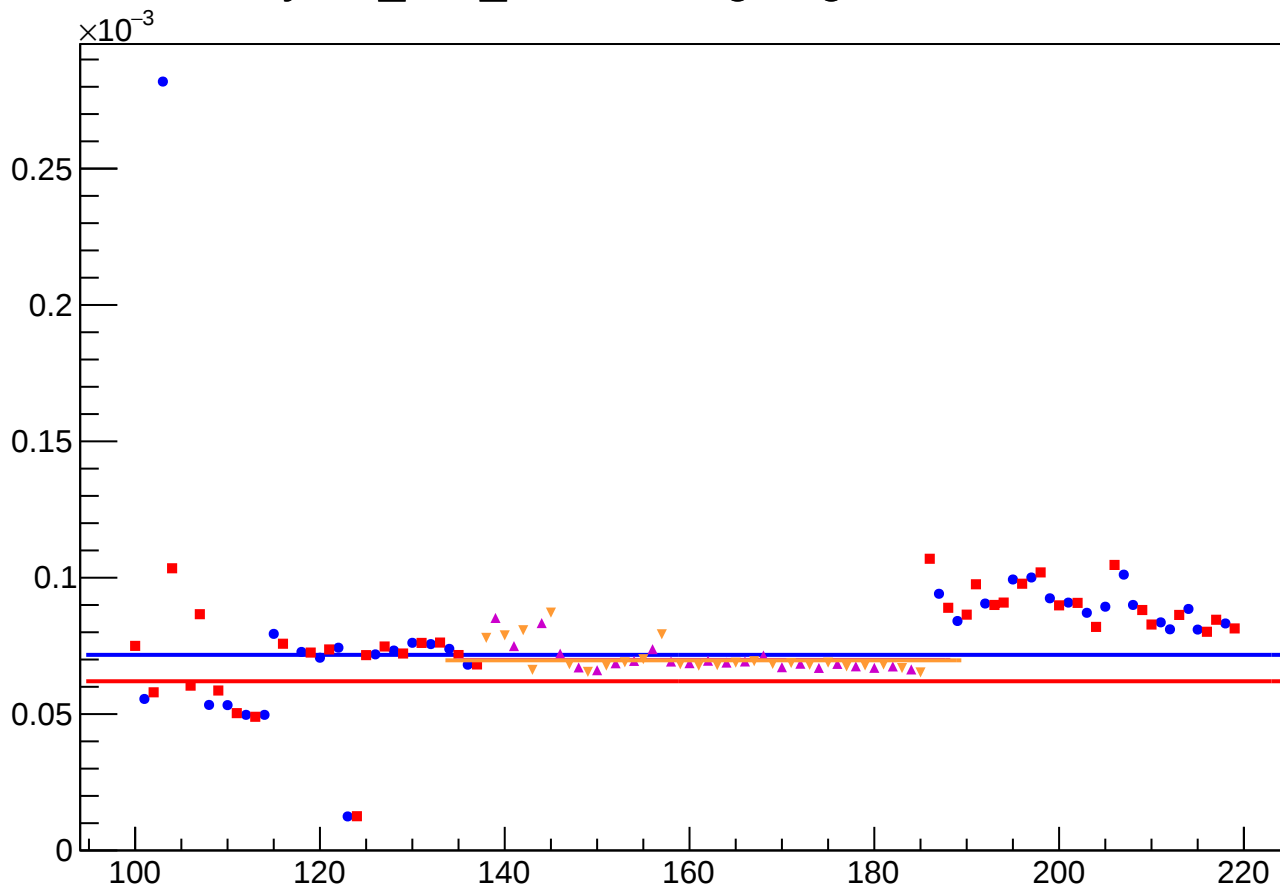
Left In: 0.025+/-0.000

χ^2/NDF : 2462473687.7/22

All: 0.022+/-0.000

χ^2/NDF : 821753479007.2

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3677823.5/32

Left Out: 0.000+/-0.000 χ^2/NDF :158125.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 7401557.8/36

Left In: 0.000+/-0.000 χ^2/NDF :129289.8/22

Left: 0.000+/-0.000 χ^2/NDF : 287487.6/47

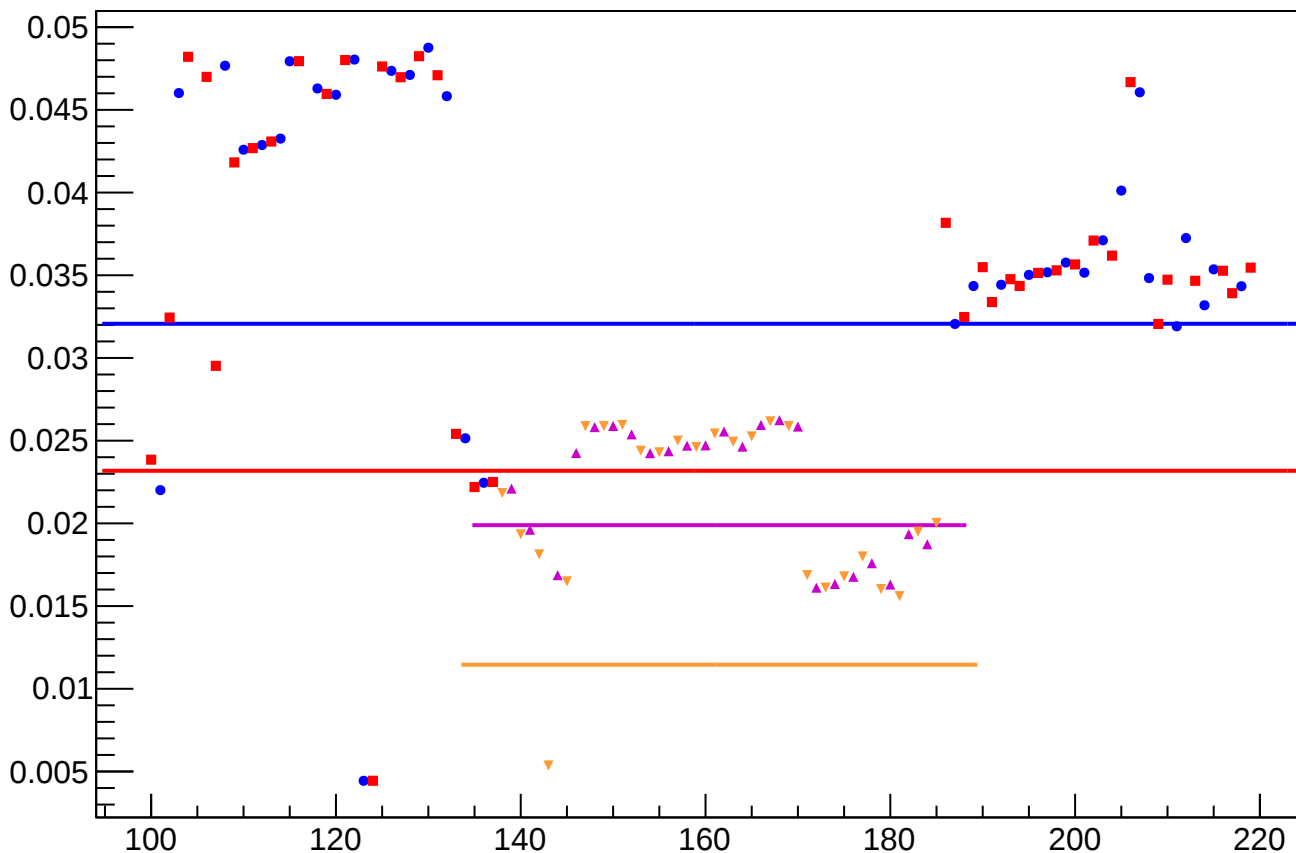
Right: 0.000+/-0.000 χ^2/NDF : 11403262.9/69

In: 0.000+/-0.000 χ^2/NDF :3818492.0/55

Out: 0.000+/-0.000 χ^2/NDF :7784638.0/61

All: 0.000+/-0.000 χ^2/NDF : 11776868.0/117

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000

χ^2/NDF : 21821096921.2/32

Left: 0.014+/-0.000

χ^2/NDF : 59527747529.2/47

Left Out: 0.011+/-0.000

χ^2/NDF : 40294472965.0/24

Right: 0.027+/-0.000

χ^2/NDF : 72255382958.2/69

Right Out: 0.023+/-0.000

χ^2/NDF : 45767651500.8/36

In: 0.023+/-0.000

χ^2/NDF : 37165513014.5/55

Out: 0.013+/-0.000

χ^2/NDF : 103002252447.2/61

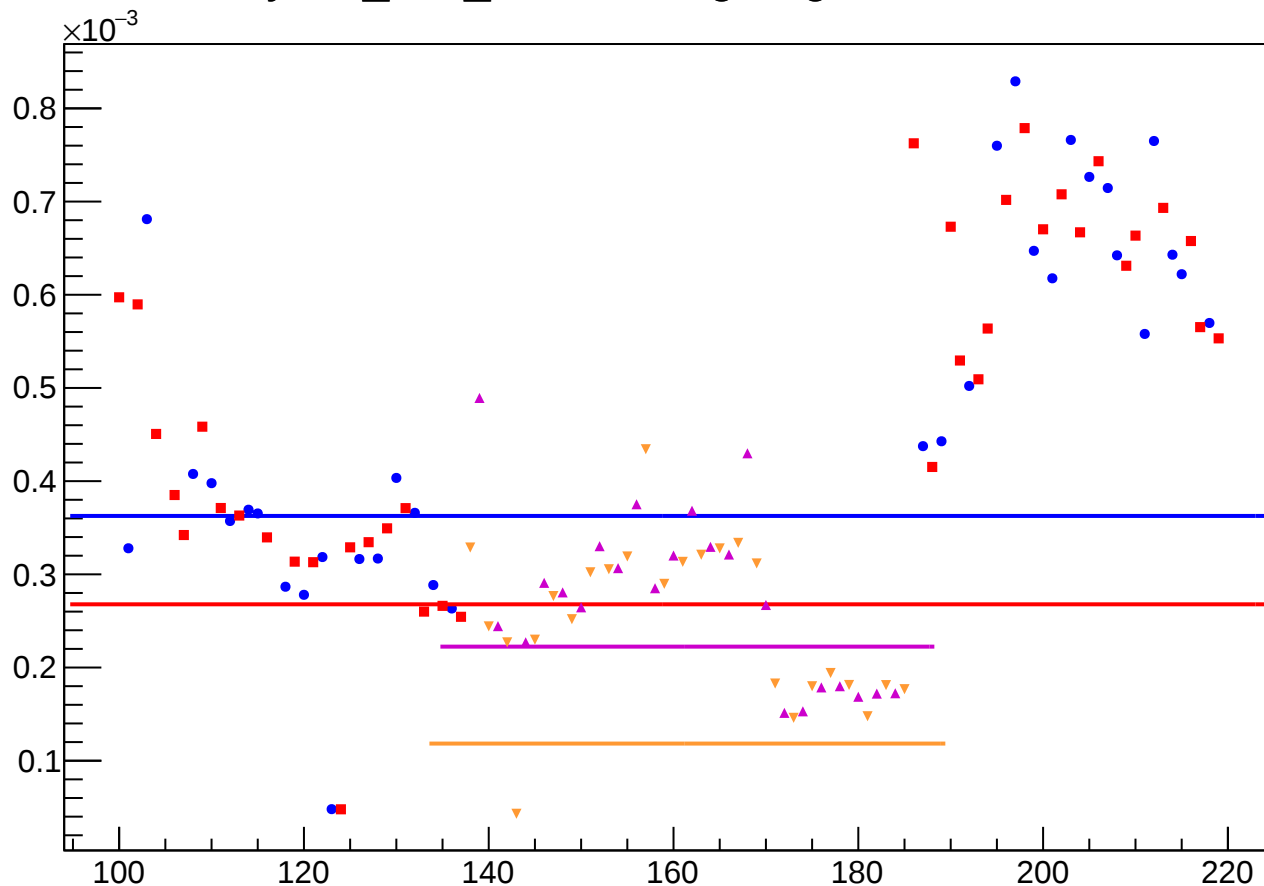
Left In: 0.020+/-0.000

χ^2/NDF : 4458790813.3/22

All: 0.016+/-0.000

χ^2/NDF : 164321783317.5

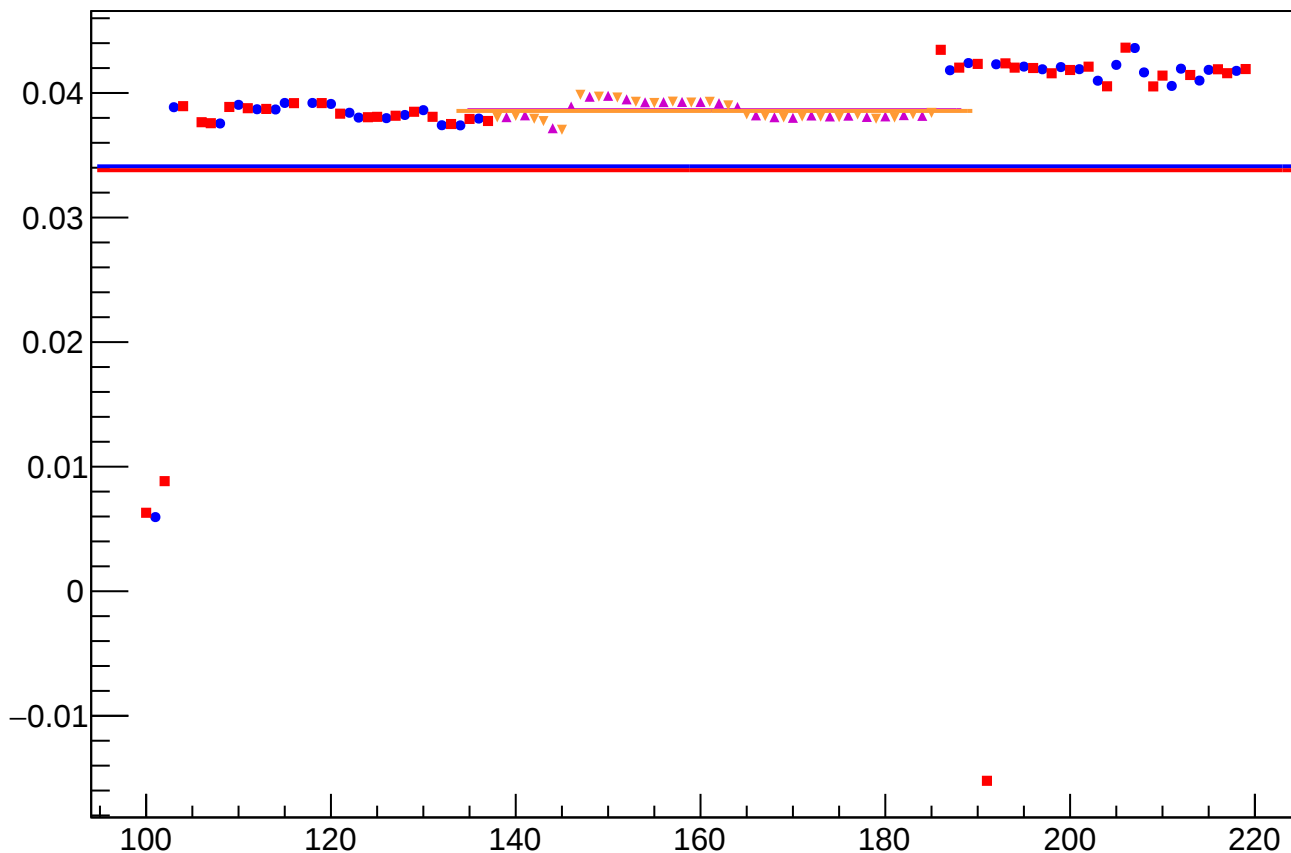
yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8049073.1/32
 Left Out: 0.000+/-0.000 χ^2/NDF :13563132.9/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 14844664.7/36
 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 : 23956618.2/69
 In: 0.000+/-0.000 χ^2/NDF :14217881.1/55
 Out: 0.000+/-0.000 χ^2/NDF :33908933.7/61
 All: 0.000+/-0.000 χ^2/NDF : 55059796.3/117

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.034+/-0.000

χ^2/NDF : 122035879603.9/32

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 : 310693704144.0/69

Right Out: 0.034+/-0.000

χ^2/NDF : 188621784336.3/36

In: 0.037+/-0.000

χ^2/NDF : 131141624317.6/55

Out: 0.037+/-0.000

χ^2/NDF : 199261961075.8/61

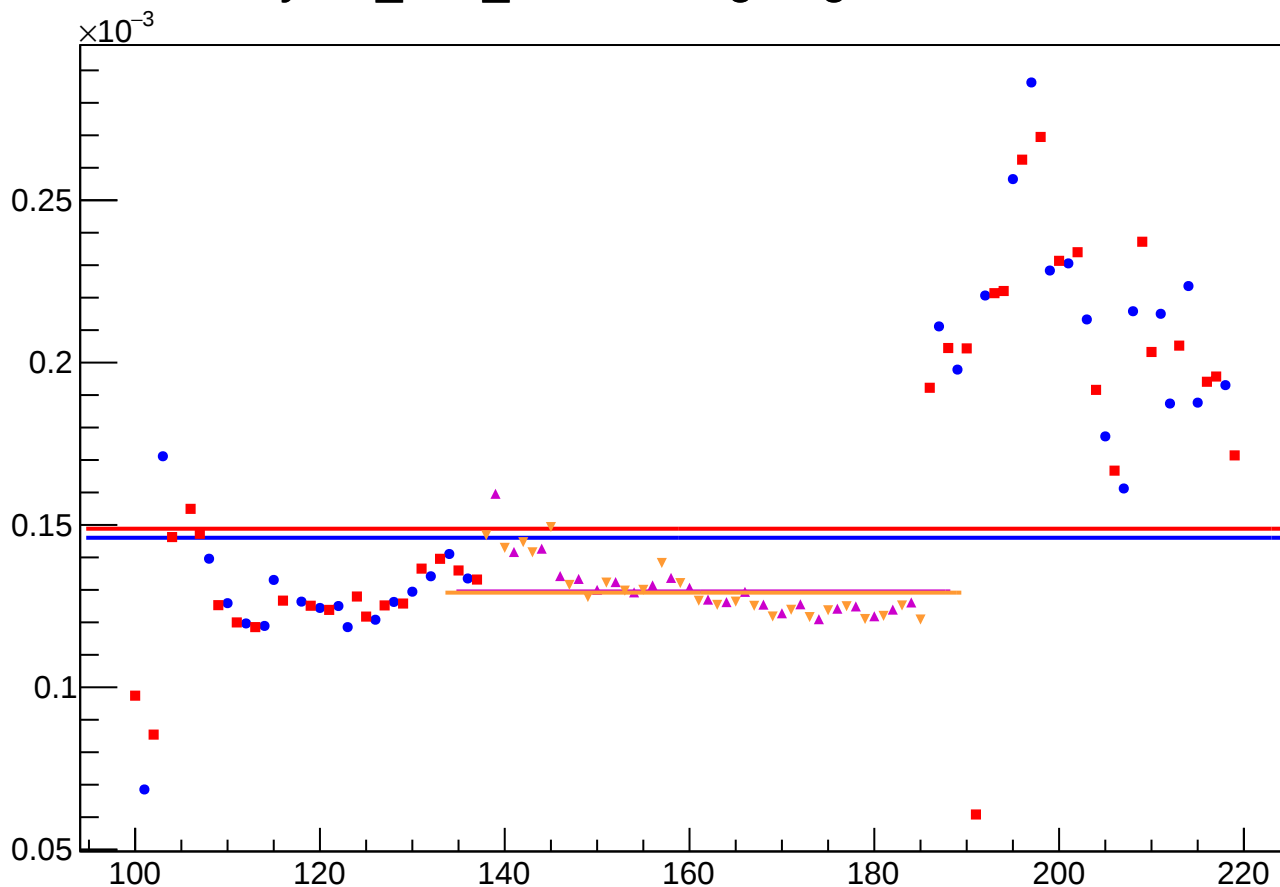
Left In: 0.039+/-0.000

χ^2/NDF : 465745982.6/22

All: 0.037+/-0.000

χ^2/NDF : 330421262913.2

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3979952.5/32

Left Out: 0.000+/-0.000 χ^2/NDF :130321.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 3712478.0/36

Left In: 0.000+/-0.000 χ^2/NDF :114763.2/22

Left: 0.000+/-0.000 χ^2/NDF : 245235.2/47

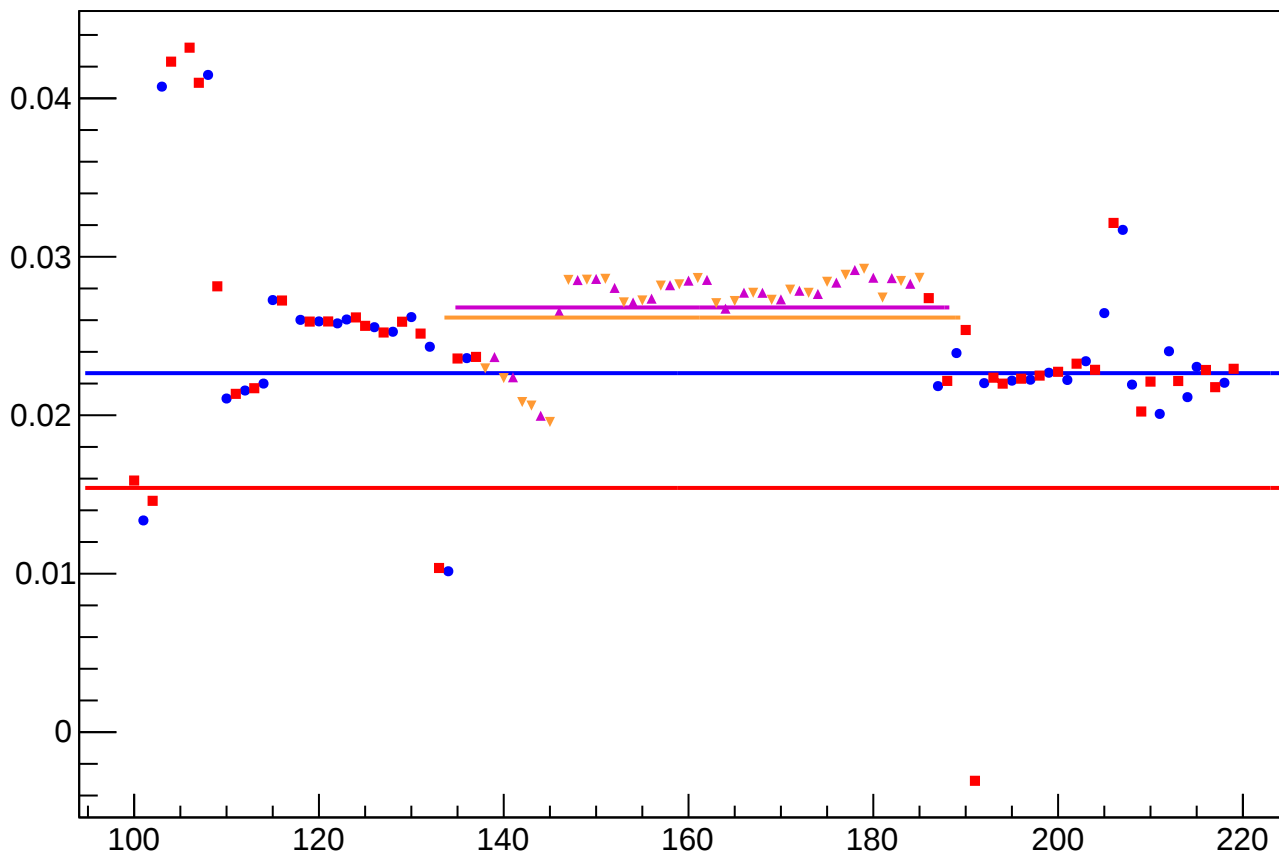
Right: 0.000+/-0.000 χ^2/NDF : 7698213.1/69

In: 0.000+/-0.000 χ^2/NDF :4326773.1/55

Out: 0.000+/-0.000 χ^2/NDF :4188310.7/61

All: 0.000+/-0.000 χ^2/NDF : 8516362.8/117

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4429193925.8/32

Left Out: 0.026+/-0.000 χ^2/NDF : 2056710635.1/24

Right Out: 0.015+/-0.000 χ^2/NDF : 32135187914.2/36

Left In: 0.027+/-0.000 χ^2/NDF : 1332033607.7/22

Left: 0.026+/-0.000 χ^2/NDF : 3427924441.4/47

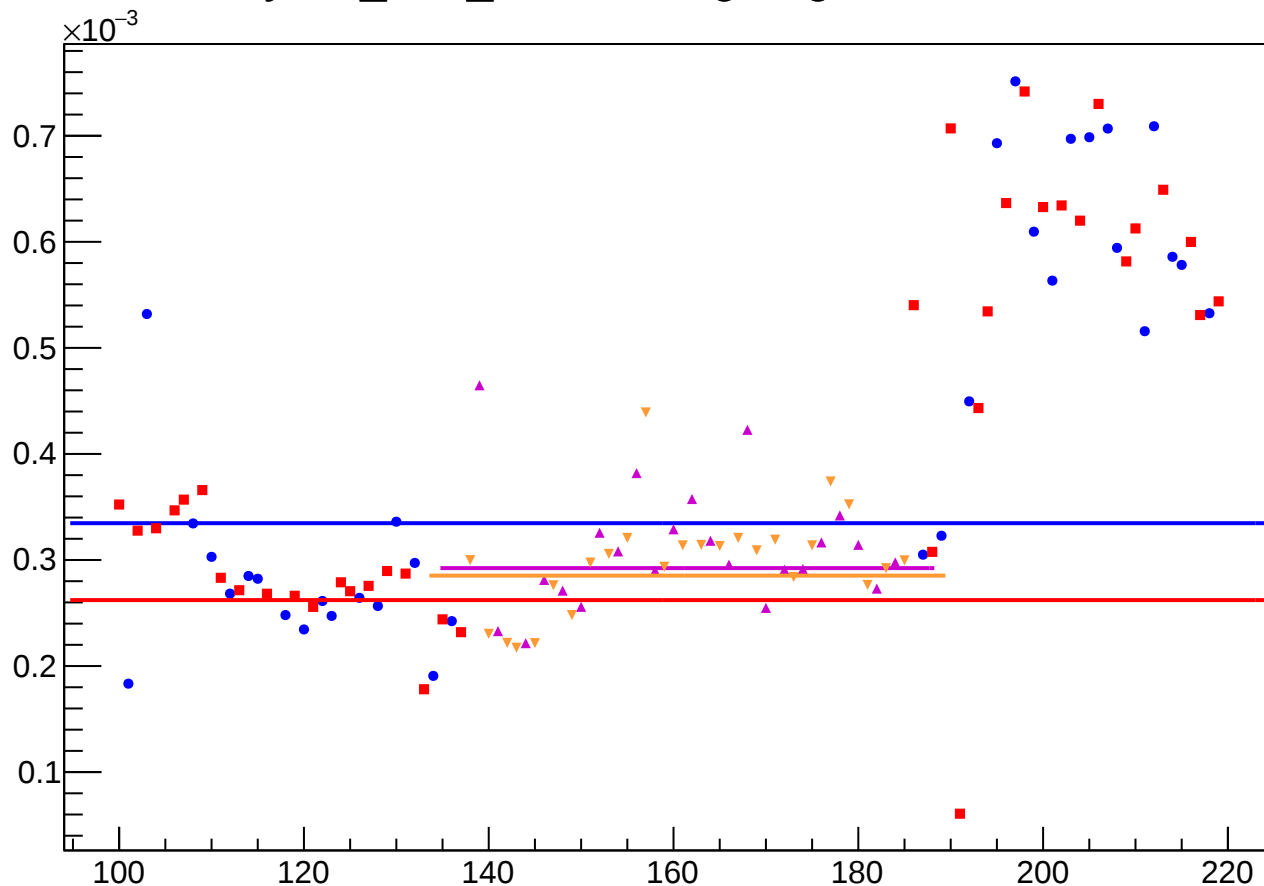
Right: 0.018+/-0.000 χ^2/NDF : 40384844735.3/69

In: 0.025+/-0.000 χ^2/NDF : 7034032242.9/55

Out: 0.021+/-0.000 χ^2/NDF : 45093471029.9/61

All: 0.023+/-0.000 χ^2/NDF : 54860556757.7/131

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 6110009.8/32

Left Out: 0.000+/-0.000 χ^2/NDF :813464.1/24

Right Out: 0.000+/-0.000 χ^2/NDF : 11627707.8/36

Left In: 0.000+/-0.000 χ^2/NDF :898772.9/22

Left: 0.000+/-0.000 χ^2/NDF : 1721873.2/47

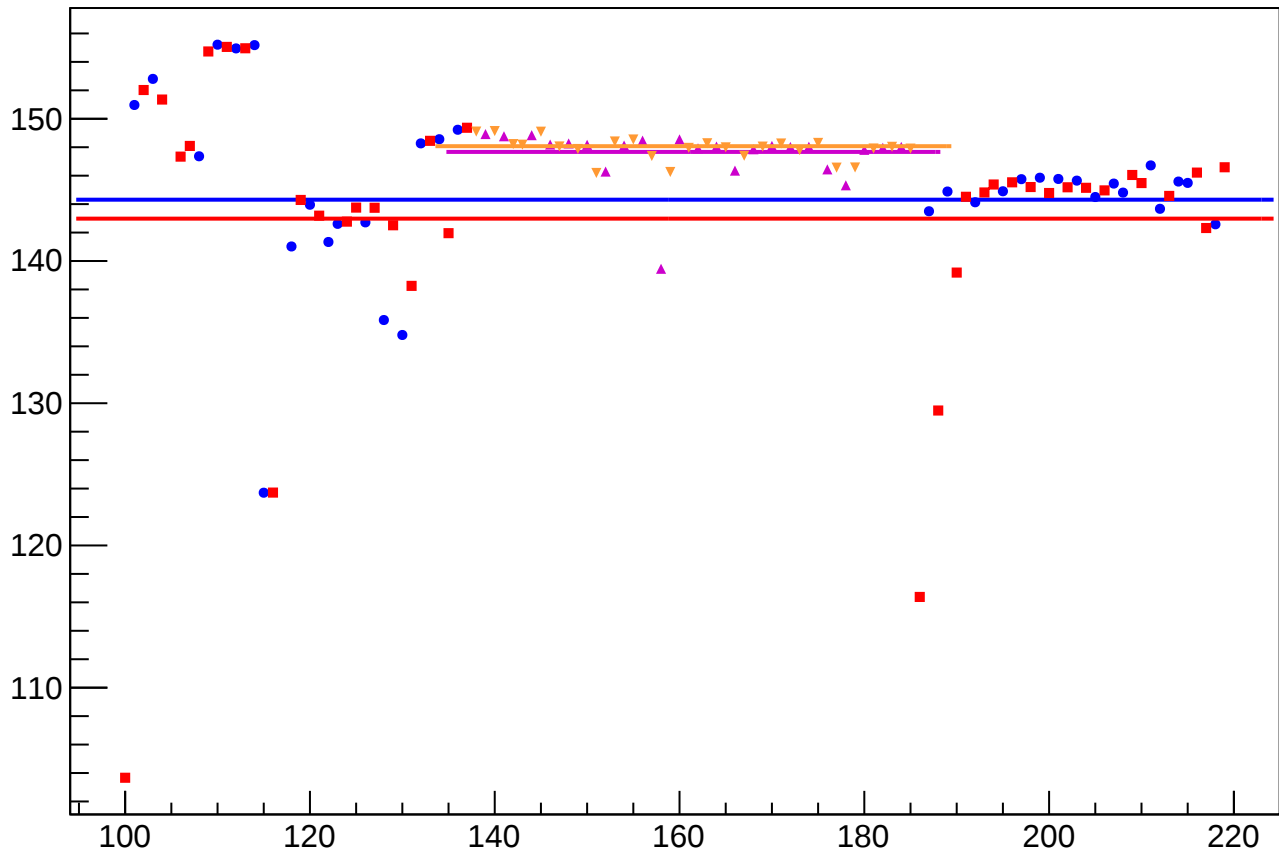
Right: 0.000+/-0.000 χ^2/NDF : 18503673.9/69

In: 0.000+/-0.000 χ^2/NDF :7274571.3/55

Out: 0.000+/-0.000 χ^2/NDF :12541663.0/61

All: 0.000+/-0.000 χ^2/NDF : 20229261.8/117

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.311 $\pm$ 0.000 χ^2 /NDF: 3514929039.2/32

Left Out: 148.073 $\pm$ 0.000 χ^2 /NDF: 65614067.4/24

Right Out: 142.979 $\pm$ 0.000 χ^2 /NDF: 7493022901.1/36

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

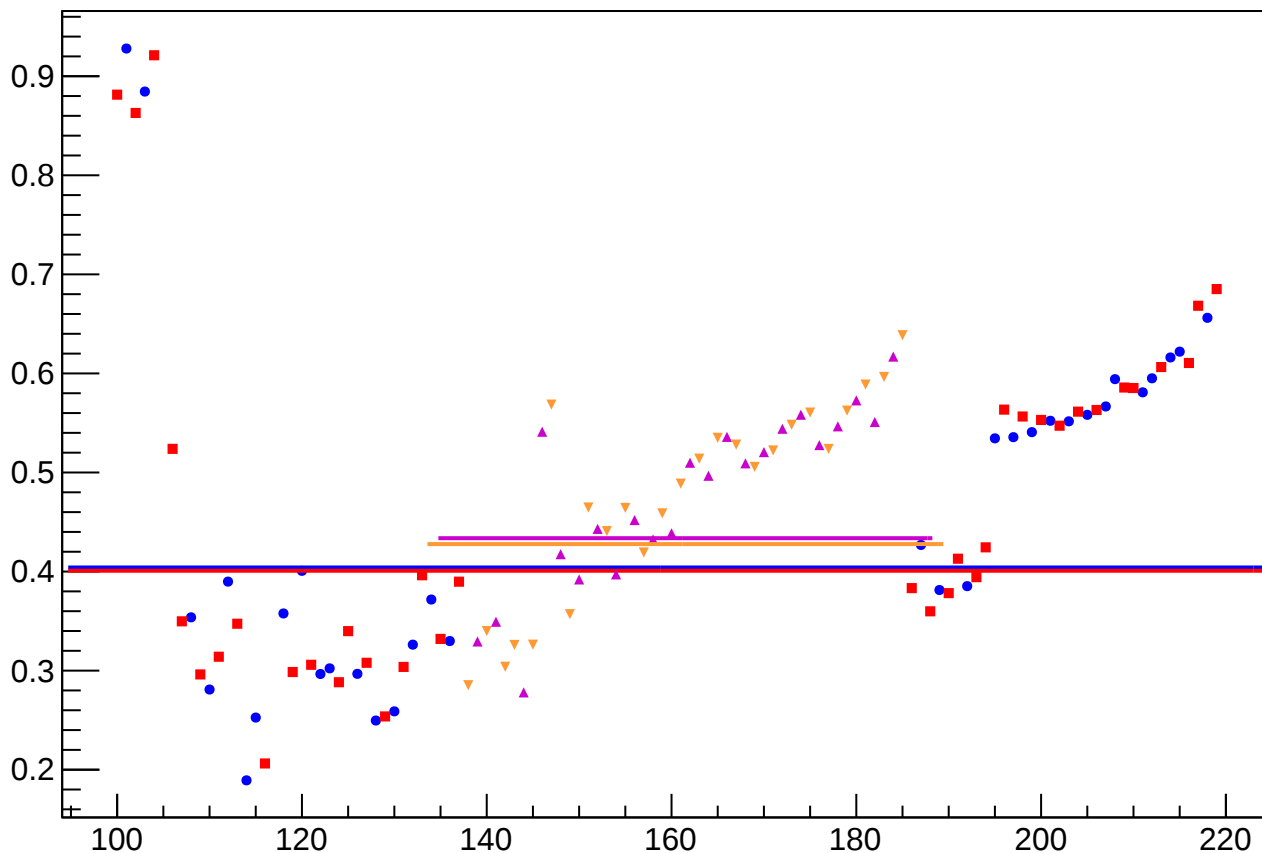
Right: 143.612 $\pm$ 0.000 χ^2 /NDF: 11095766418.1/69

In: 145.919 $\pm$ 0.000 χ^2 /NDF: 4368859396.6/55

Out: 145.379 $\pm$ 0.000 χ^2 /NDF: 8832097911.3/61

All: 145.637 $\pm$ 0.000 χ^2 /NDF: 13228441147.0/117

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.404 $\pm$ 0.000 χ^2 /NDF: 3855539.6/32

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1896808.7/24

Right Out: 0.401 $\pm$ 0.000 χ^2 /NDF: 3803366.0/36

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

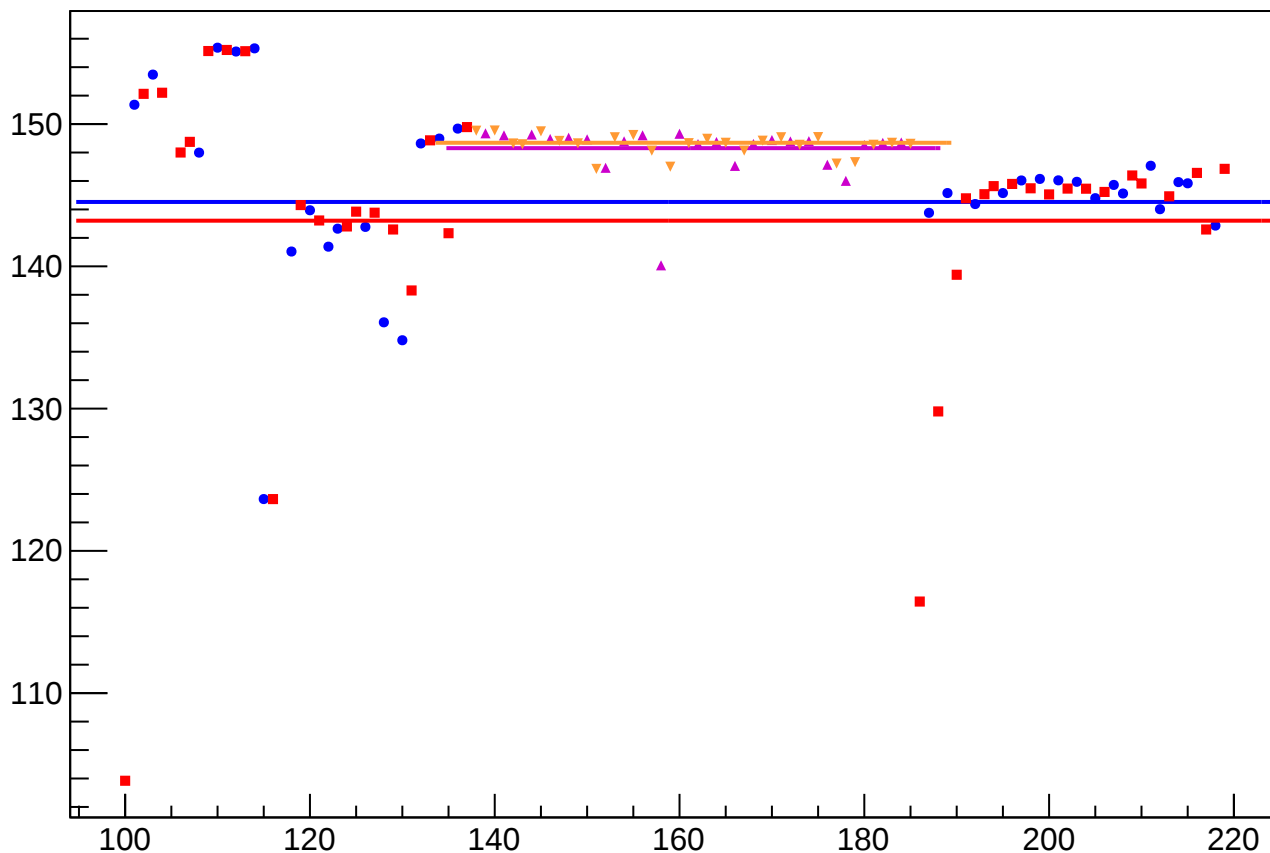
Right: 0.402 $\pm$ 0.000 χ^2 /NDF: 7659966.5/69

In: 0.418 $\pm$ 0.000 χ^2 /NDF:5430708.2/55

Out: 0.414 $\pm$ 0.000 χ^2 /NDF:5771213.2/61

All: 0.416 $\pm$ 0.000 χ^2 /NDF: 11206173.5/117

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.526 $\pm$ 0.000 χ^2 /NDF: 3565977777.1/32

Left Out: 148.686 $\pm$ 0.000 χ^2 /NDF: 52218185.1/24

Right Out: 143.209 $\pm$ 0.000 χ^2 /NDF: 7445783904.2/36

Left In: 148.307 $\pm$ 0.000 χ^2 /NDF: 333585558.2/22

Left: 148.504 $\pm$ 0.000 χ^2 /NDF: 392094013.2/47

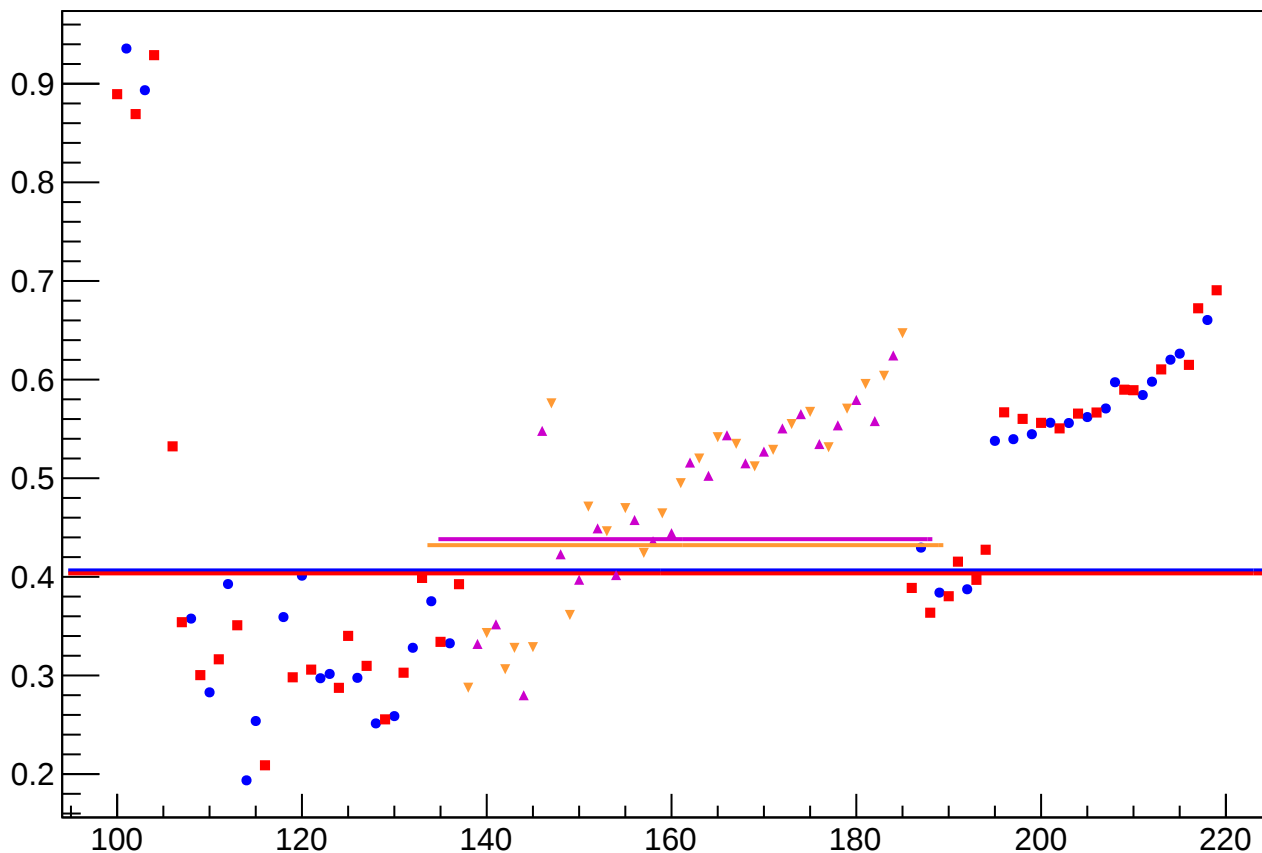
Right: 143.835 $\pm$ 0.000 χ^2 /NDF: 11096409640.3/69

In: 146.326 $\pm$ 0.000 χ^2 /NDF: 4533463855.2/55

Out: 145.778 $\pm$ 0.000 χ^2 /NDF: 8944544827.2/61

All: 146.041 $\pm$ 0.000 χ^2 /NDF: 13505822094.2/117

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.407 $\pm$ 0.000 χ^2 /NDF: 3864170.3/32

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1929031.5/24

Right Out: 0.404 $\pm$ 0.000 χ^2 /NDF: 3807987.3/36

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

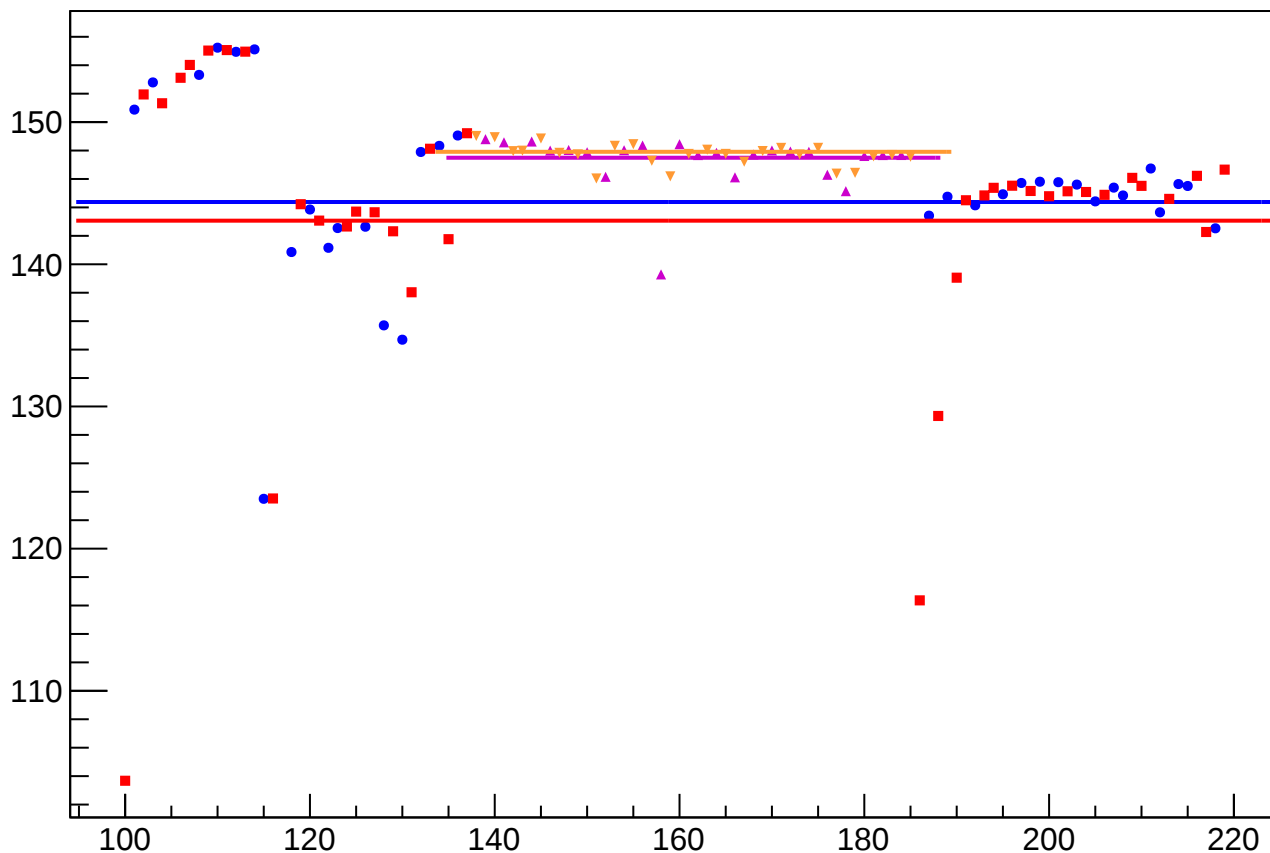
Right: 0.405 $\pm$ 0.000 χ^2 /NDF: 7673044.3/69

In: 0.422 $\pm$ 0.000 χ^2 /NDF:5475106.4/55

Out: 0.417 $\pm$ 0.000 χ^2 /NDF:5816040.4/61

All: 0.419 $\pm$ 0.000 χ^2 /NDF: 11295199.2/117

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.381+/-0.000 χ^2/NDF : 3720974553.4/32

Left Out: 147.911+/-0.000 χ^2/NDF : 64412407.9/24

Right Out: 143.067+/-0.000 χ^2/NDF : 7865957569.8/36

Left In: 147.493+/-0.000 χ^2/NDF : 343978473.2/22

Left: 147.709+/-0.000 χ^2/NDF : 416149781.4/47

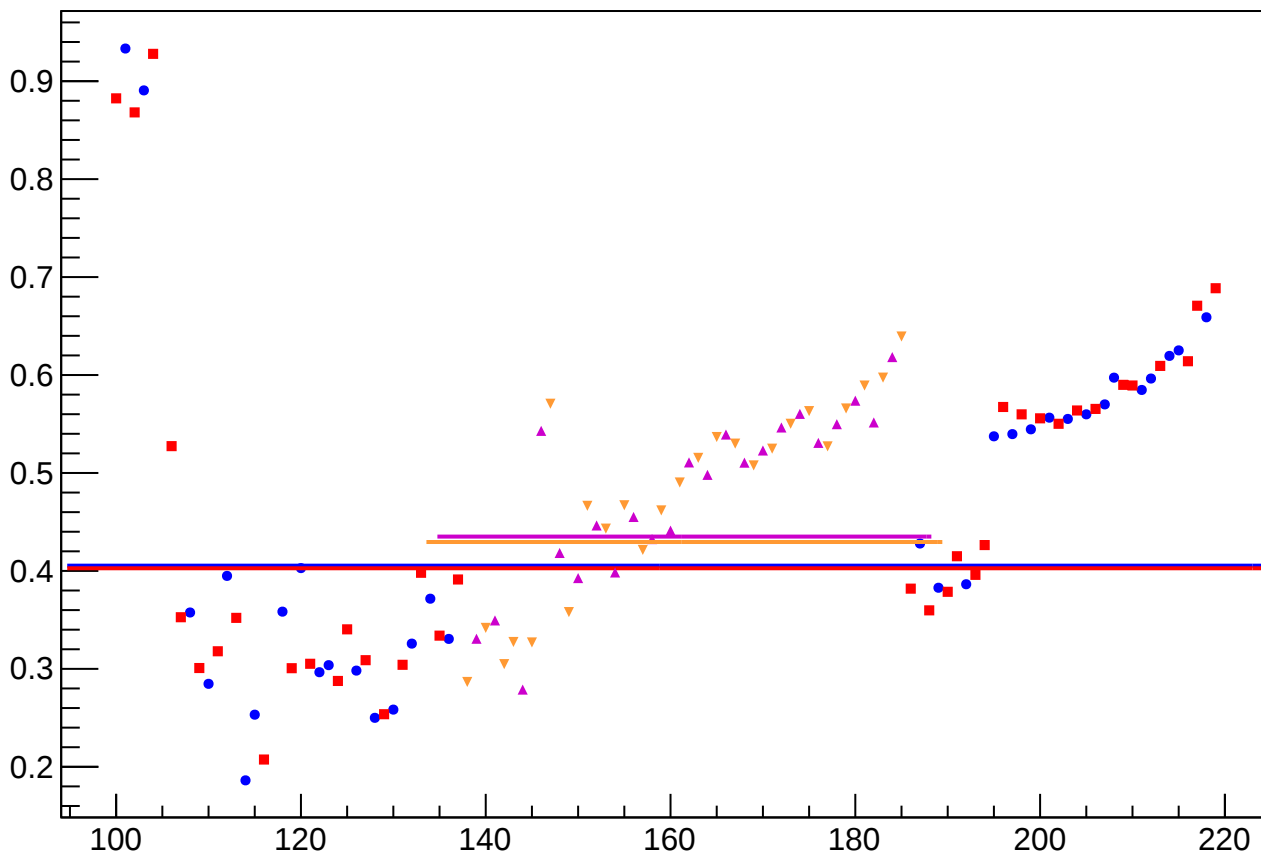
Right: 143.692+/-0.000 χ^2/NDF : 11671529219.1/69

In: 145.871+/-0.000 χ^2/NDF : 4498736110.9/55

Out: 145.350+/-0.000 χ^2/NDF : 9071733289.3/61

All: 145.600+/-0.000 χ^2/NDF : 13595803742.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.405 $\pm$ 0.000 χ^2 /NDF: 3895338.4/32

Left Out: 0.430 $\pm$ 0.000 χ^2 /NDF:1895701.4/24

Right Out: 0.403 $\pm$ 0.000 χ^2 /NDF: 3810586.2/36

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1502712.5/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3401133.5/47

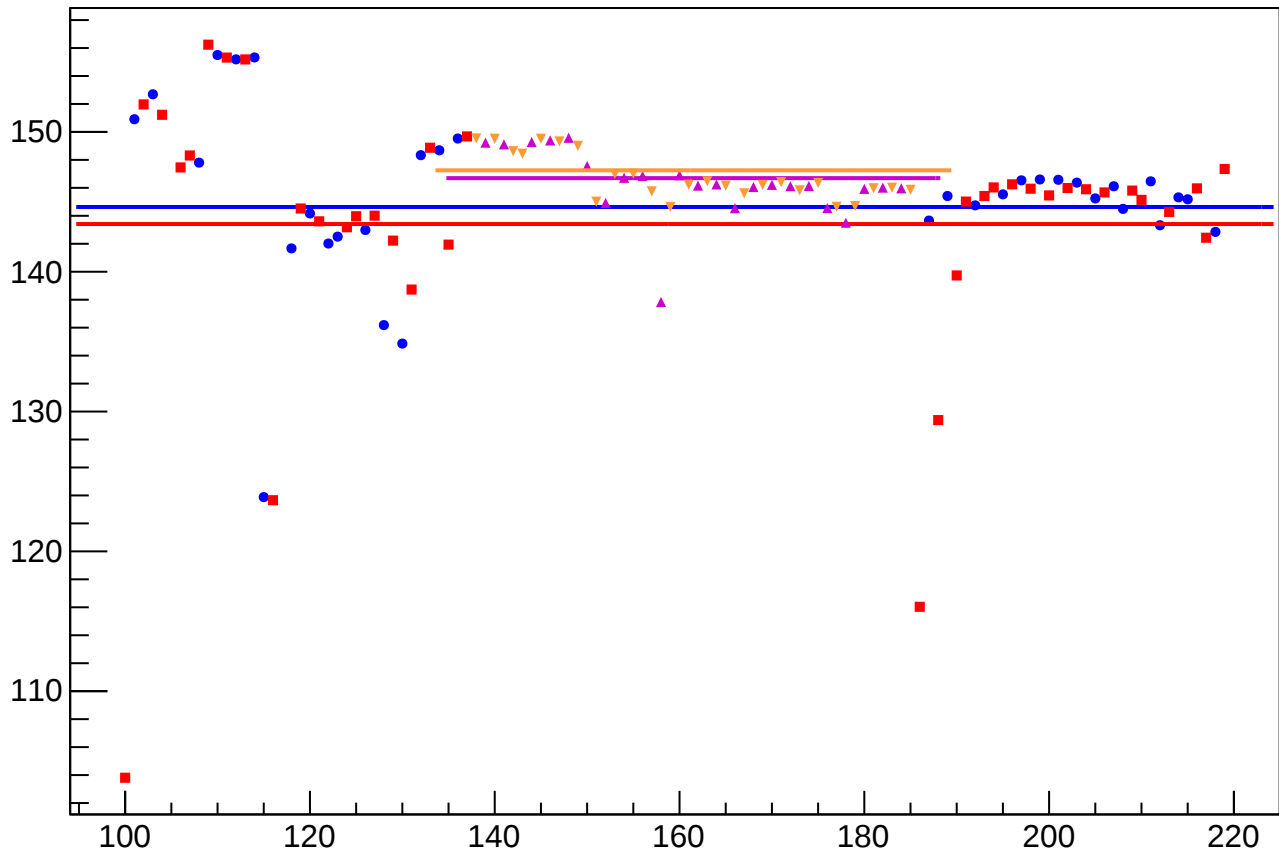
Right: 0.404 $\pm$ 0.000 χ^2 /NDF: 7706626.7/69

In: 0.420 $\pm$ 0.000 χ^2 /NDF:5476947.2/55

Out: 0.415 $\pm$ 0.000 χ^2 /NDF:5776304.9/61

All: 0.417 $\pm$ 0.000 χ^2 /NDF: 11256620.0/117

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.632 $\pm$ 0.000 χ^2 /NDF: 3239467140.8/32

Left Out: 147.255 $\pm$ 0.000 χ^2 /NDF: 262138049.8/24

Right Out: 143.412 $\pm$ 0.000 χ^2 /NDF: 7181518011.6/36

Left In: 146.695 $\pm$ 0.000 χ^2 /NDF: 557896803.1/22

Left: 146.984 $\pm$ 0.000 χ^2 /NDF: 833217060.4/47

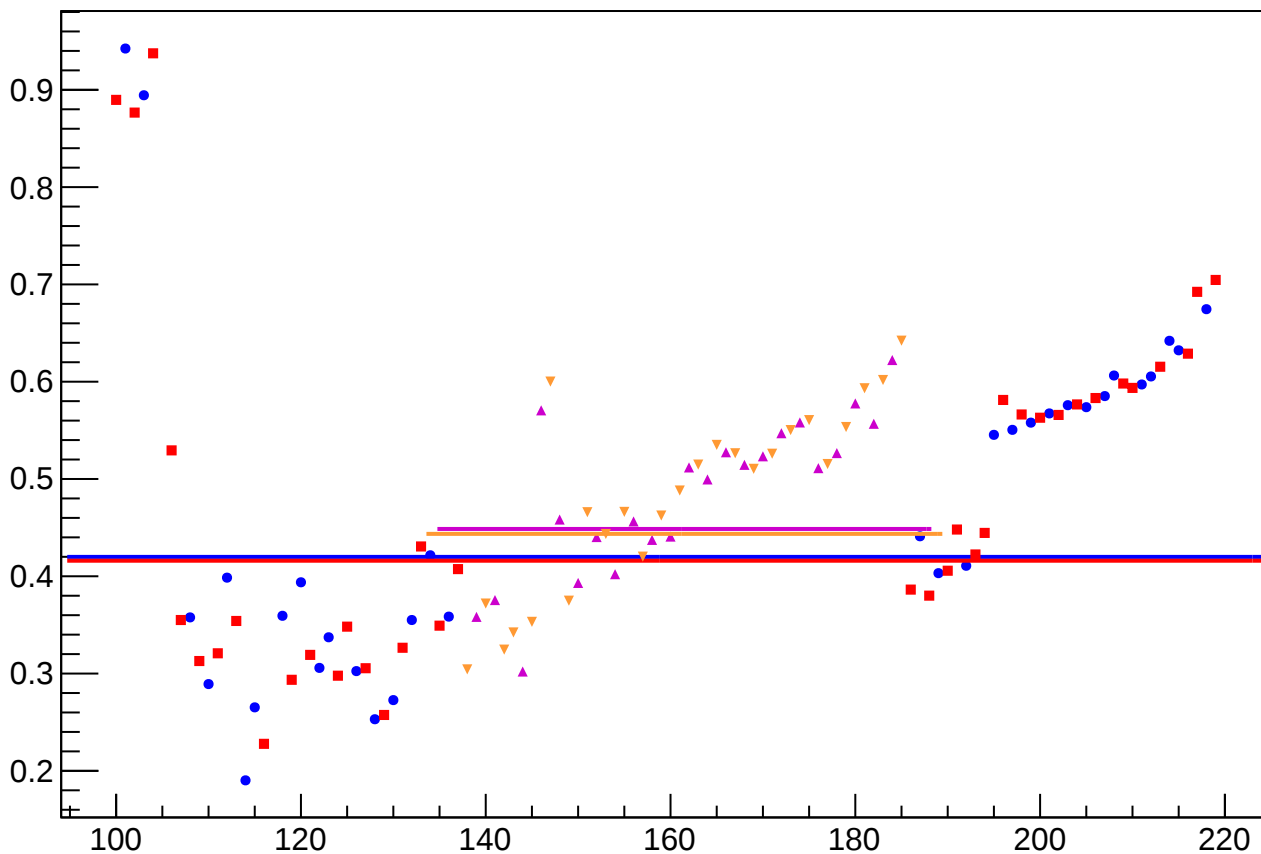
Right: 143.990 $\pm$ 0.000 χ^2 /NDF: 10489212781.1/69

In: 145.629 $\pm$ 0.000 χ^2 /NDF: 3976908417.5/55

Out: 145.233 $\pm$ 0.000 χ^2 /NDF: 8120357624.9/61

All: 145.423 $\pm$ 0.000 χ^2 /NDF: 12111092345.0/118

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.420+/-0.000 χ^2/NDF : 3763734.5/32

Left Out: 0.444+/-0.000 χ^2/NDF :1483434.7/24

Right Out: 0.416+/-0.000 χ^2/NDF : 3691788.7/36

Left In: 0.449+/-0.000 χ^2/NDF :1132620.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2618207.6/47

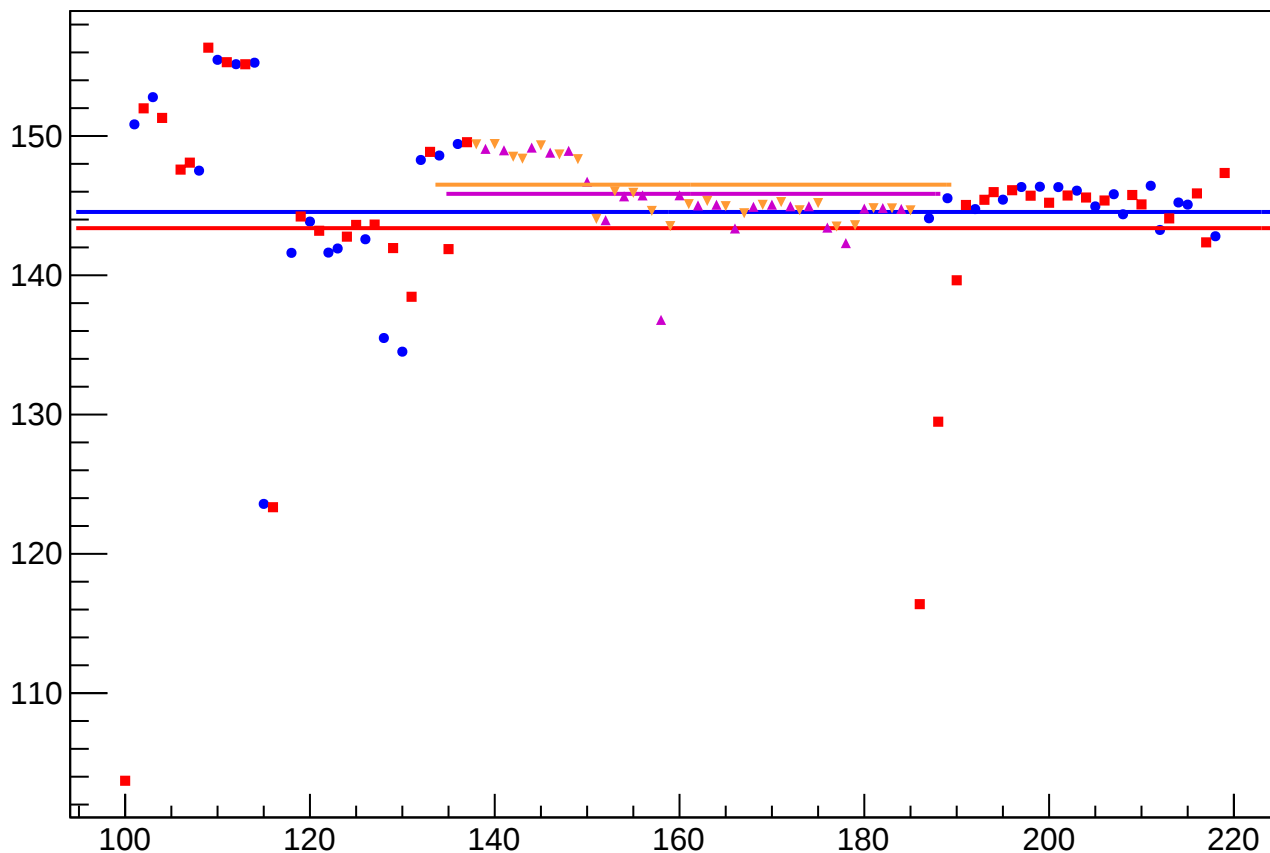
Right: 0.418+/-0.000 χ^2/NDF : 7456944.7/69

In: 0.434+/-0.000 χ^2/NDF :4965861.9/55

Out: 0.429+/-0.000 χ^2/NDF :5245010.7/61

All: 0.431+/-0.000 χ^2/NDF : 10214826.4/117

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.546 $\pm$ 0.000 χ^2 /NDF: 3349027773.0/32

Left Out: 146.505 $\pm$ 0.000 χ^2 /NDF: 401688176.3/24

Right Out: 143.383 $\pm$ 0.000 χ^2 /NDF: 7133128296.2/36

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

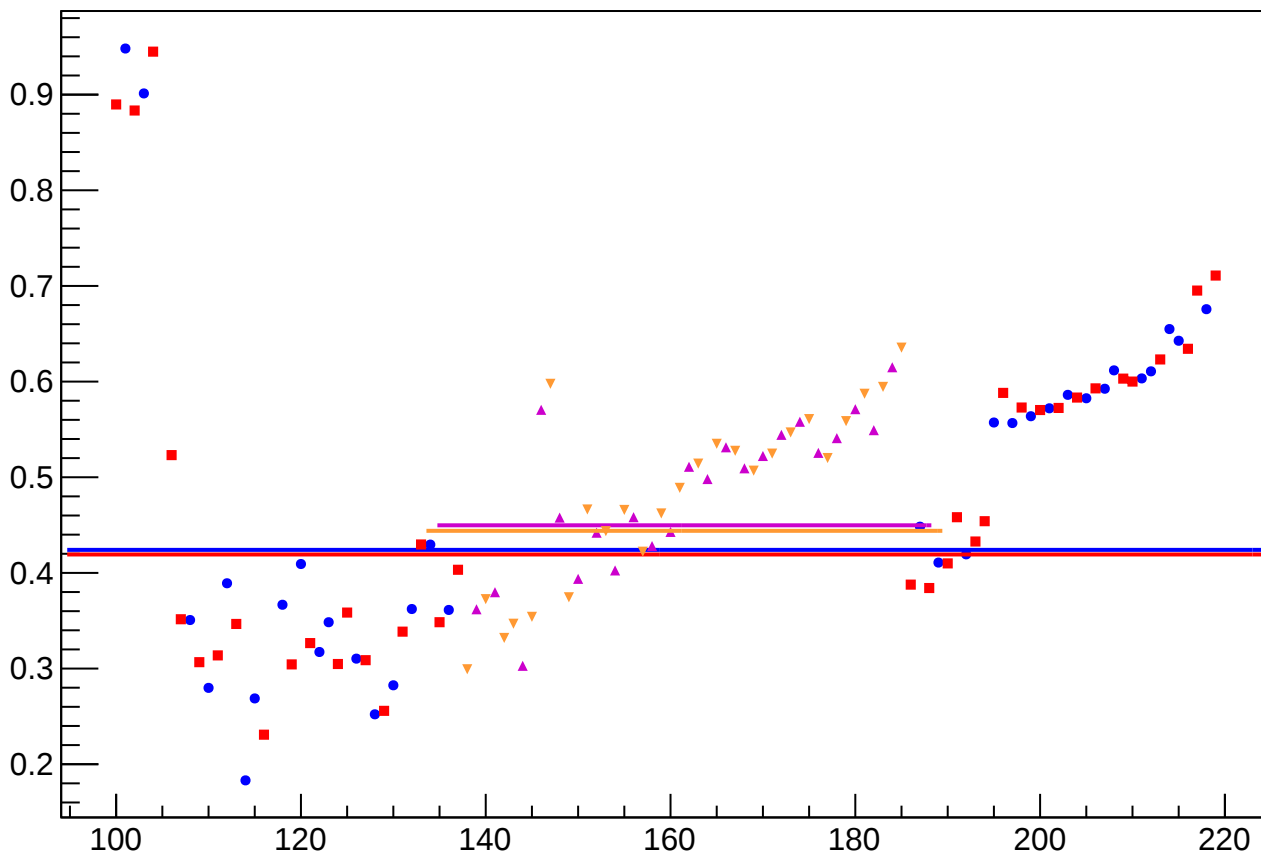
Right: 143.933 $\pm$ 0.000 χ^2 /NDF: 10542829615.1/69

In: 145.181 $\pm$ 0.000 χ^2 /NDF: 4114129346.3/55

Out: 144.875 $\pm$ 0.000 χ^2 /NDF: 7976831947.8/61

All: 145.021 $\pm$ 0.000 χ^2 /NDF: 12099048735.0/117

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.424+/-0.000 χ^2/NDF : 3814525.8/32

Left Out: 0.444+/-0.000 χ^2/NDF :1463293.5/24

Right Out: 0.419+/-0.000 χ^2/NDF : 3725416.4/36

Left In: 0.450+/-0.000 χ^2/NDF :1105405.0/22

Left: 0.447+/-0.000 χ^2/NDF : 2571486.5/47

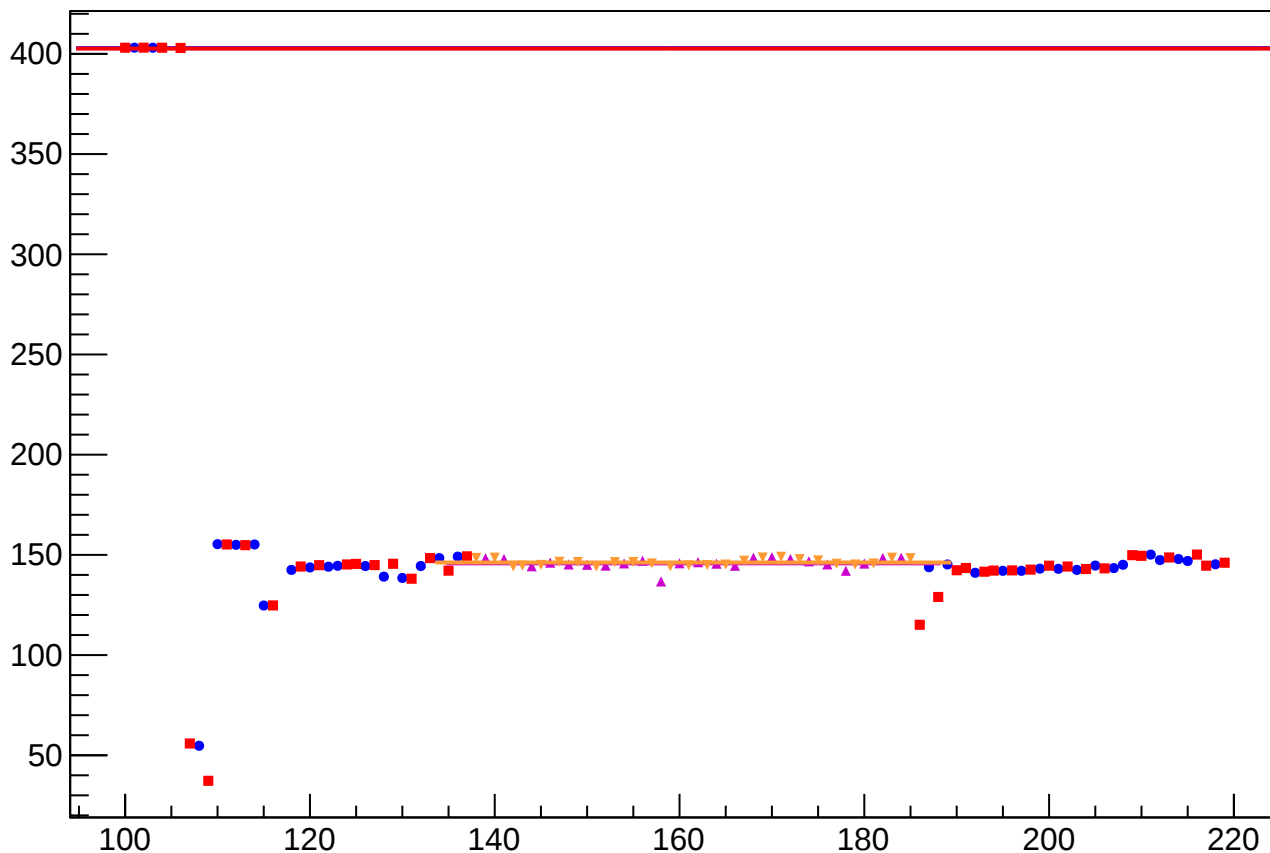
Right: 0.422+/-0.000 χ^2/NDF : 7542028.2/69

In: 0.437+/-0.000 χ^2/NDF :4974764.7/55

Out: 0.431+/-0.000 χ^2/NDF :5244232.2/61

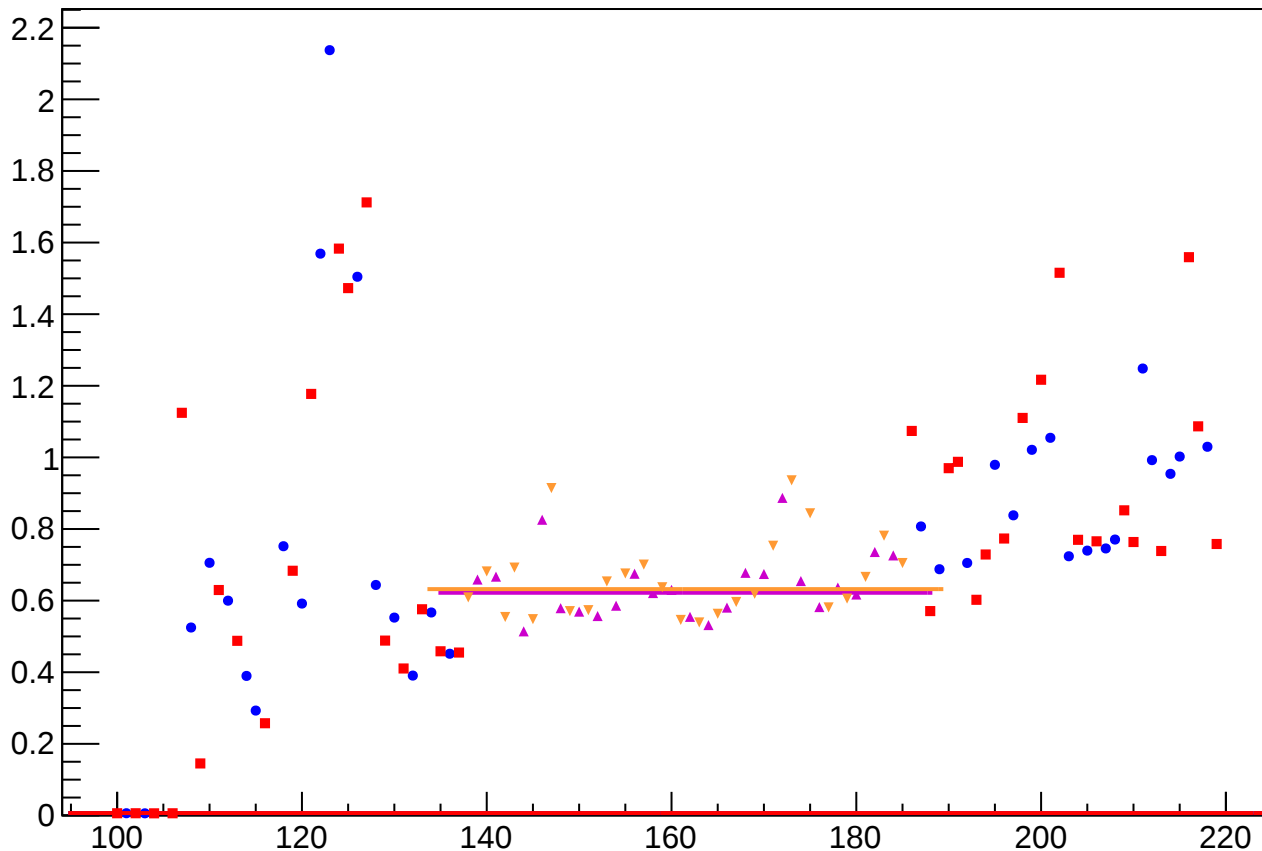
All: 0.434+/-0.000 χ^2/NDF : 10224302.1/117

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.854+/-0.000	χ^2/NDF : 1930473326000.7/32	Left: 145.990+/-0.000	χ^2/NDF : 297342055.1/47
Left Out: 146.205+/-0.000	χ^2/NDF : 86658381.3/24	Right: 402.761+/-0.000	χ^2/NDF : 6143459925374.0/6
Right Out: 402.678+/-0.000	χ^2/NDF : 4212475367769.0/36	In: 402.561+/-0.000	χ^2/NDF : 4278612845594.0/5
Left In: 145.773+/-0.000	χ^2/NDF : 207332354.9/22	Out: 402.417+/-0.000	χ^2/NDF : 6579630608133.7/6
		All: 402.484+/-0.000	χ^2/NDF : 10858588441.1/1

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 27360914.6/32

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:614155.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 30507750.8/36

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

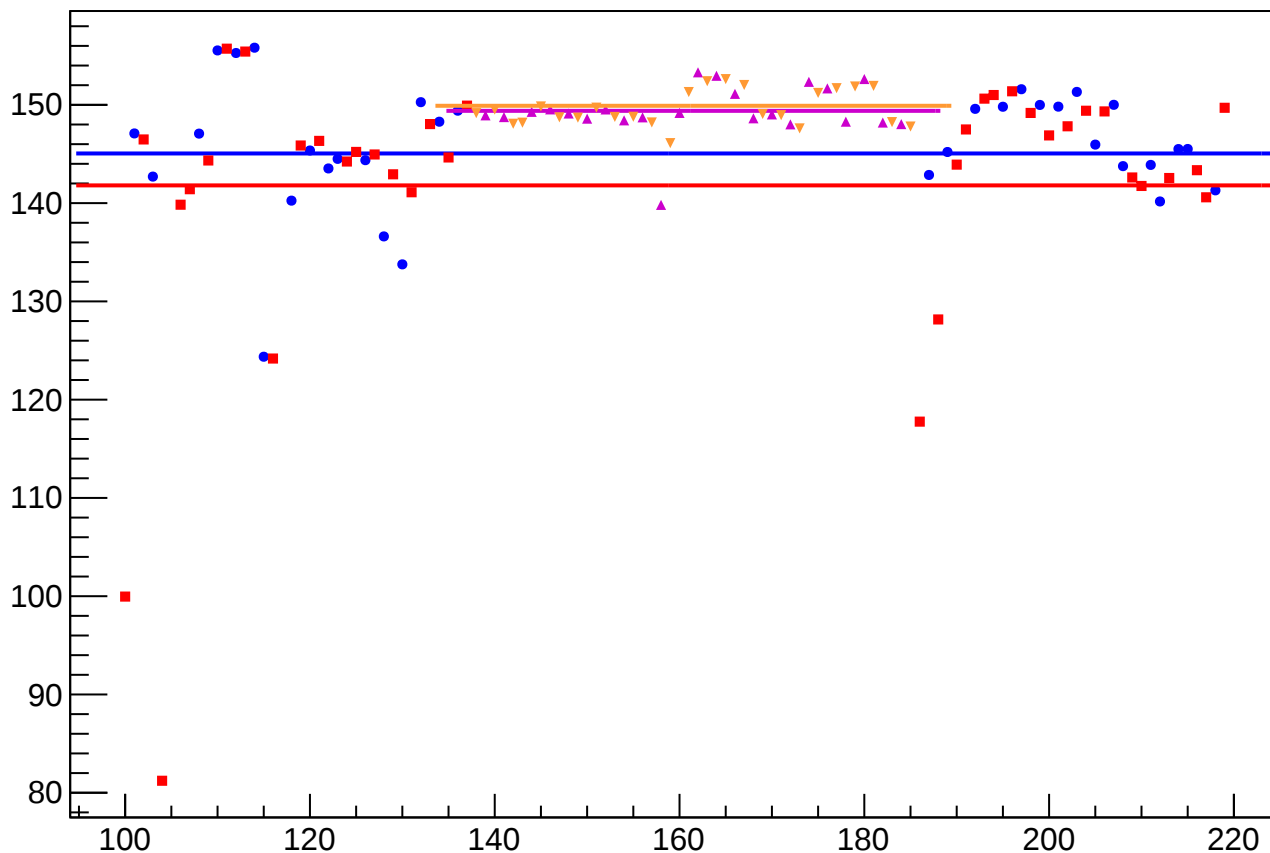
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 57868671.9/69

In: 0.007 $\pm$ 0.000 χ^2 /NDF:54662035.9/55

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:59273579.1/61

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 113935696.0/117

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.053+/-0.000

χ^2/NDF : 1379417191.1/32

Left Out: 149.906+/-0.000

χ^2/NDF : 163261802.4/24

Right Out: 141.804+/-0.000

χ^2/NDF : 3337613774.1/36

Left In: 149.391+/-0.000

χ^2/NDF : 437129920.4/22

Left: 149.657+/-0.000

χ^2/NDF : 606930259.3/47

Right: 143.237+/-0.000

χ^2/NDF : 4874199476.3/69

In: 147.834+/-0.000

χ^2/NDF : 2137846376.6/55

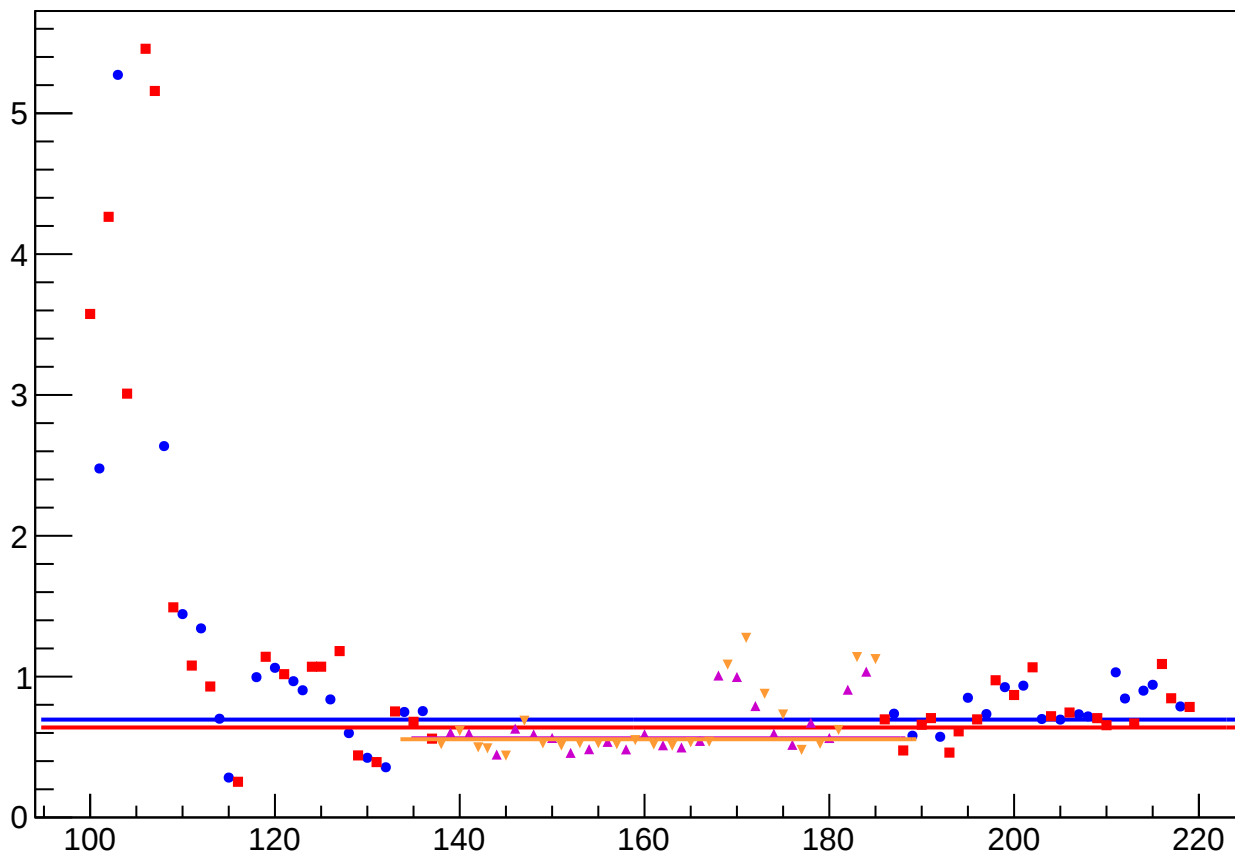
Out: 146.676+/-0.000

χ^2/NDF : 4833375897.5/61

All: 147.217+/-0.000

χ^2/NDF : 7024271668.6

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.695 $\pm$ 0.000 χ^2 /NDF: 4366724.6/32

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773380.1/24

Right Out: 0.639 $\pm$ 0.000 χ^2 /NDF: 5968361.0/36

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1311075.2/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3086646.6/47

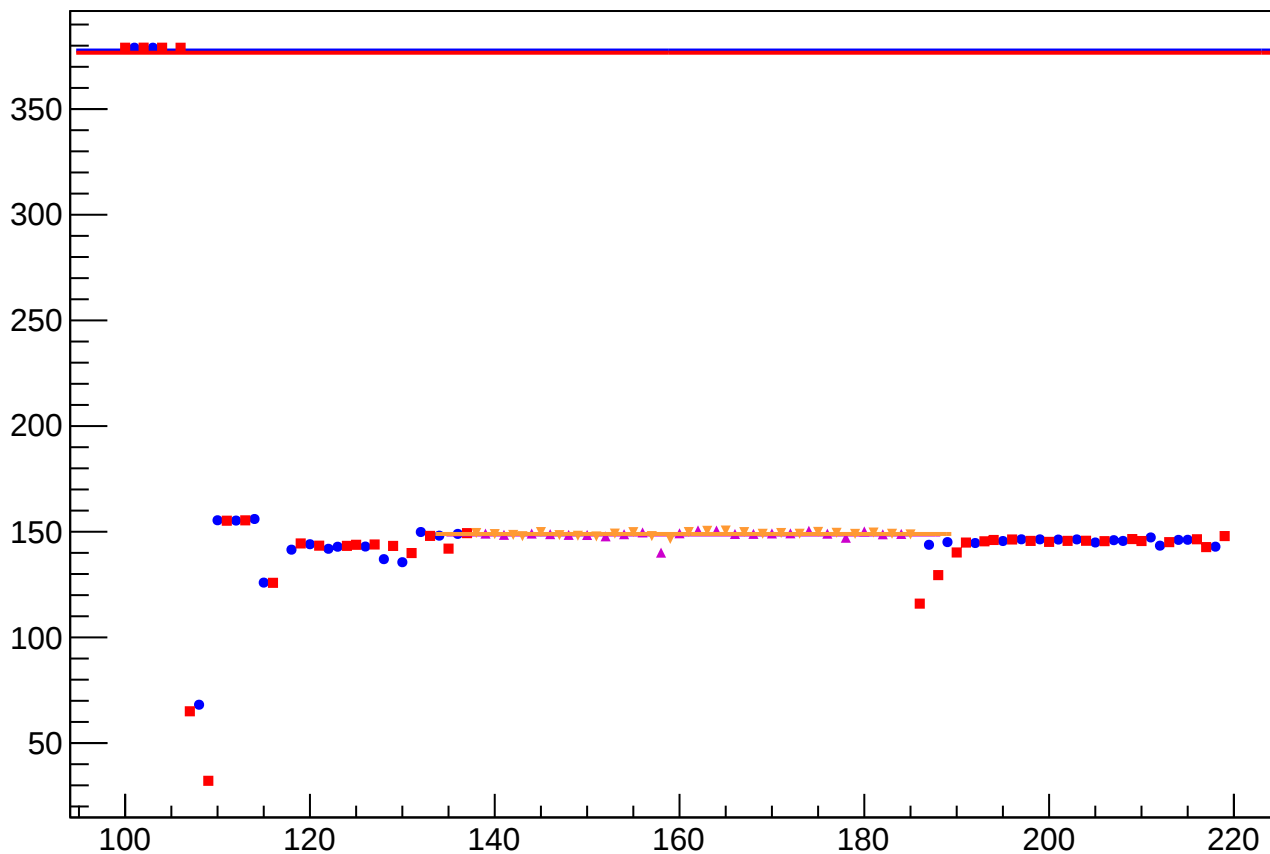
Right: 0.664 $\pm$ 0.000 χ^2 /NDF: 10428549.1/69

In: 0.610 $\pm$ 0.000 χ^2 /NDF:6280750.6/55

Out: 0.589 $\pm$ 0.000 χ^2 /NDF:8024888.1/61

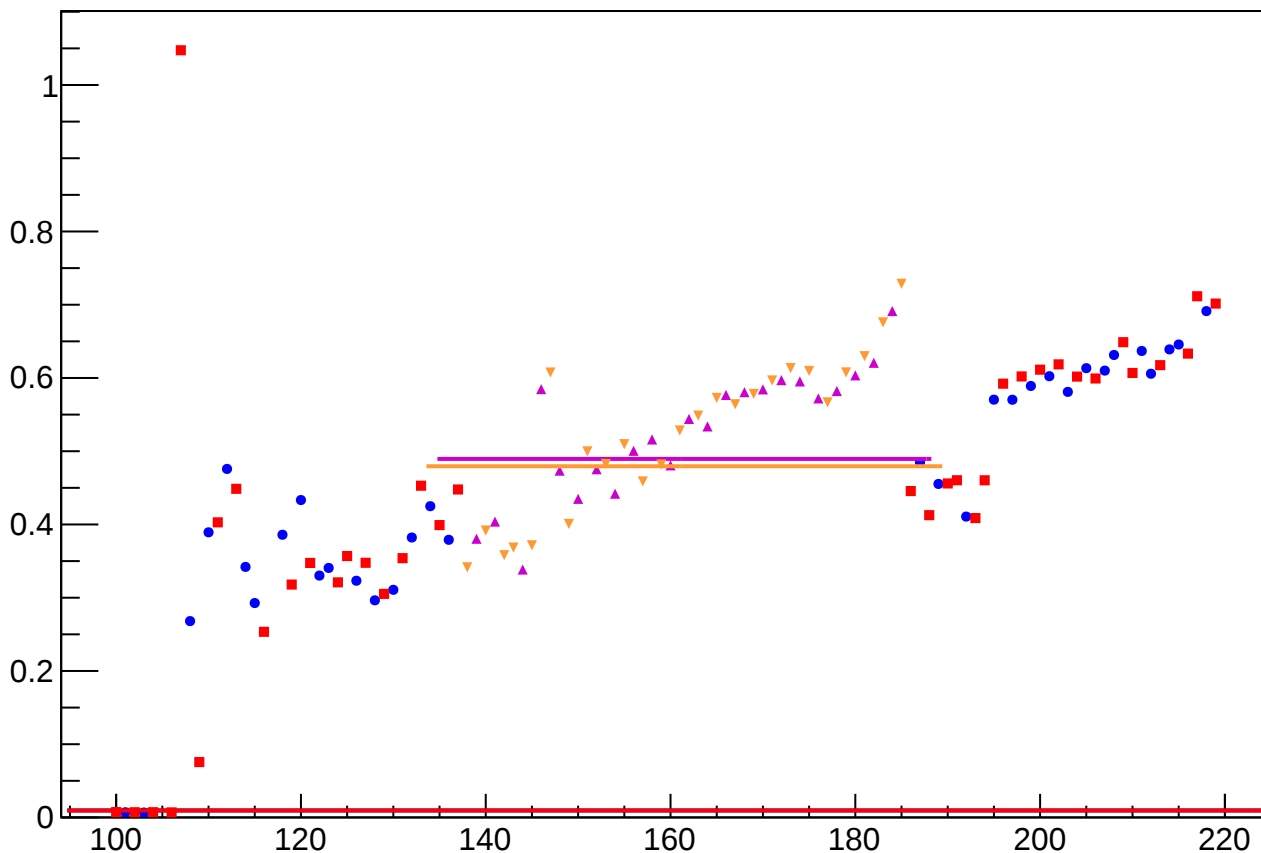
All: 0.599 $\pm$ 0.000 χ^2 /NDF: 14340712.5/117

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.702 $\pm$ 0.000	χ^2 /NDF: 4307554307218.7/32	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: 377.150 $\pm$ 0.000	χ^2 /NDF: 14821208925703.1
Right Out: 376.666 $\pm$ 0.000	χ^2 /NDF: 10506024307883.4/36	In: 376.526 $\pm$ 0.000	χ^2 /NDF: 7903494469370.6/55
Left In: 148.683 $\pm$ 0.000	χ^2 /NDF: 253848207.3/22	Out: 375.552 $\pm$ 0.000	χ^2 /NDF: 14369063689375.1
		All: 376.007 $\pm$ 0.000	χ^2 /NDF: 222793397858.1

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 31342433.2/32

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1518765.9/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 33045593.5/36

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

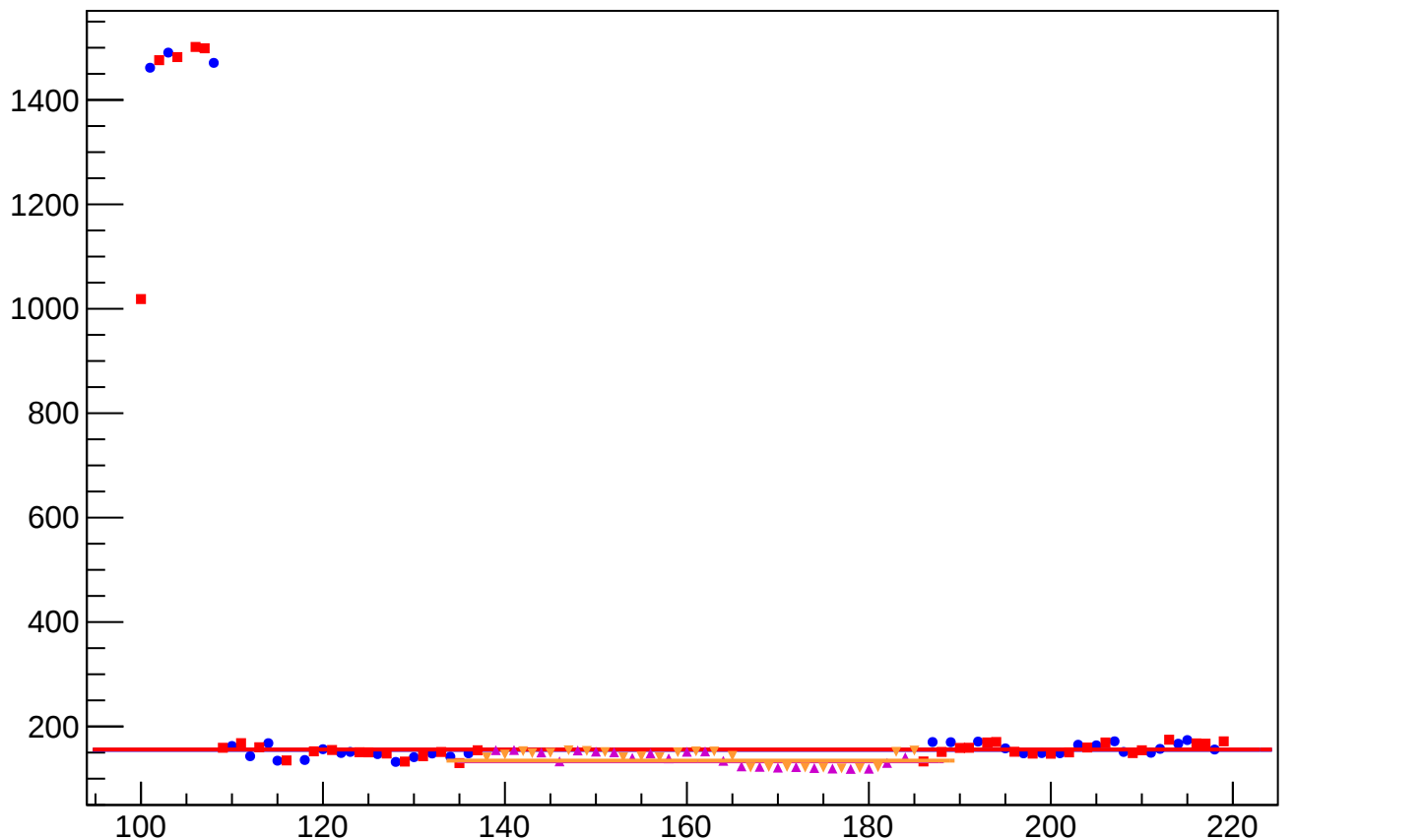
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 64388033.7/69

In: 0.012 $\pm$ 0.000 χ^2 /NDF:64021507.0/55

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:67467269.5/61

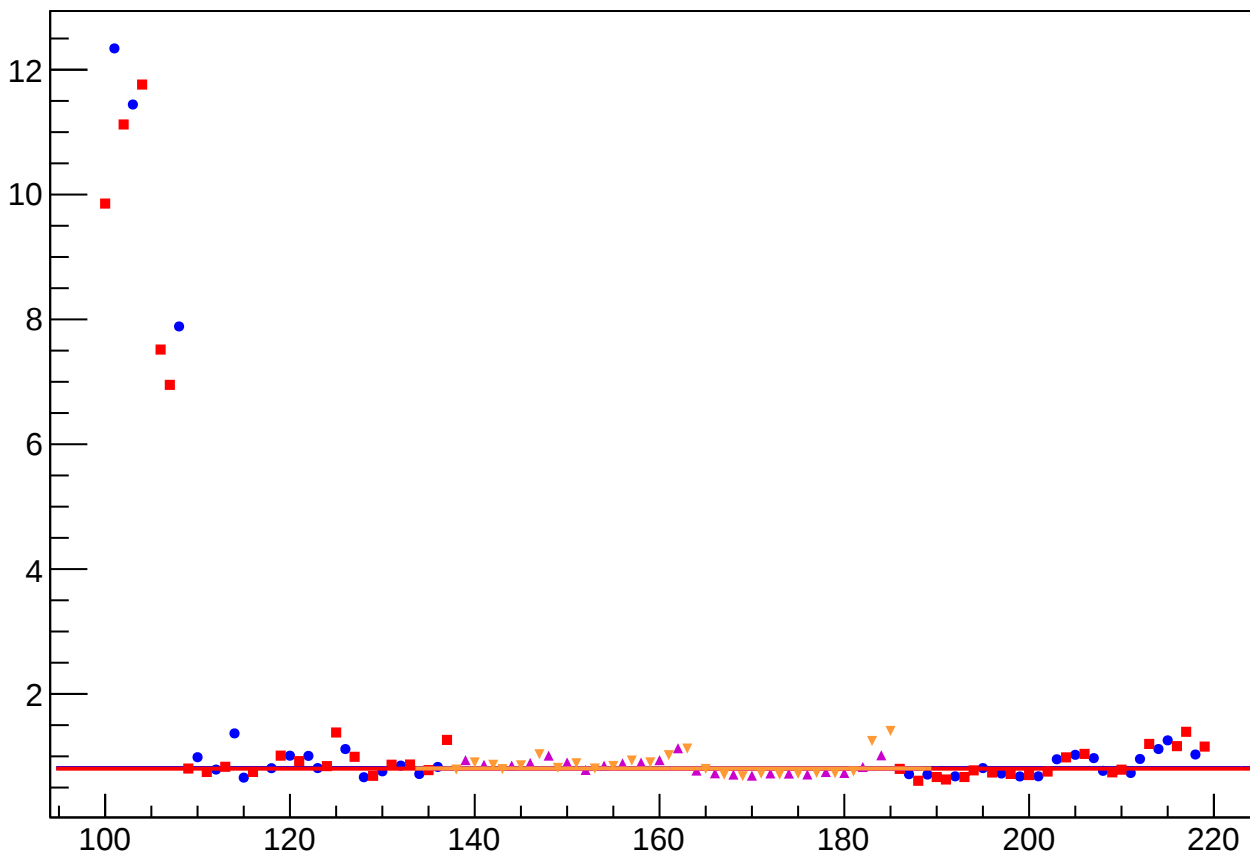
All: 0.012 $\pm$ 0.000 χ^2 /NDF: 131489069.5/117

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.221+/-0.000	χ^2/NDF : 26161591645.5/32	Left: 133.958+/-0.000	χ^2/NDF : 8759337937.7/47
Left Out: 134.585+/-0.000	χ^2/NDF : 4387324151.1/24	Right: 155.559+/-0.000	χ^2/NDF : 61600690056.4/69
Right Out: 155.865+/-0.000	χ^2/NDF : 35434719193.9/36	In: 143.554+/-0.000	χ^2/NDF : 35665915558.2/55
Left In: 133.309+/-0.000	χ^2/NDF : 4353039408.6/22	Out: 144.859+/-0.000	χ^2/NDF : 45012370558.4/61
		All: 144.227+/-0.000	χ^2/NDF : 80716122164.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.814+/-0.000 χ^2/NDF : 3363798.9/32

Left Out: 0.807+/-0.000 χ^2/NDF : 704181.3/24

Right Out: 0.803+/-0.000 χ^2/NDF : 3933074.0/36

Left In: 0.805+/-0.000 χ^2/NDF : 479689.4/22

Left: 0.806+/-0.000 χ^2/NDF : 1183976.9/47

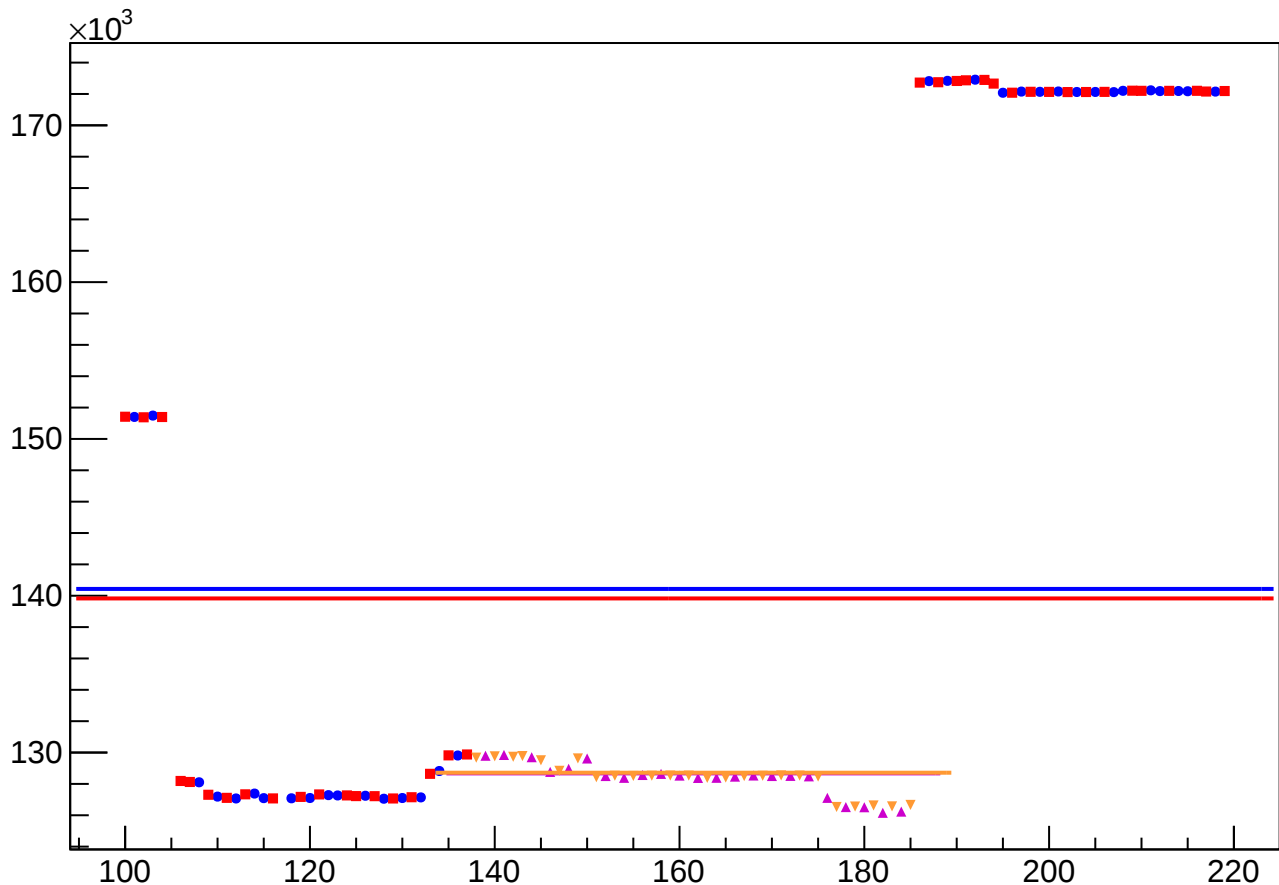
Right: 0.808+/-0.000 χ^2/NDF : 7299422.8/69

In: 0.809+/-0.000 χ^2/NDF : 3845279.2/55

Out: 0.805+/-0.000 χ^2/NDF : 4637620.1/61

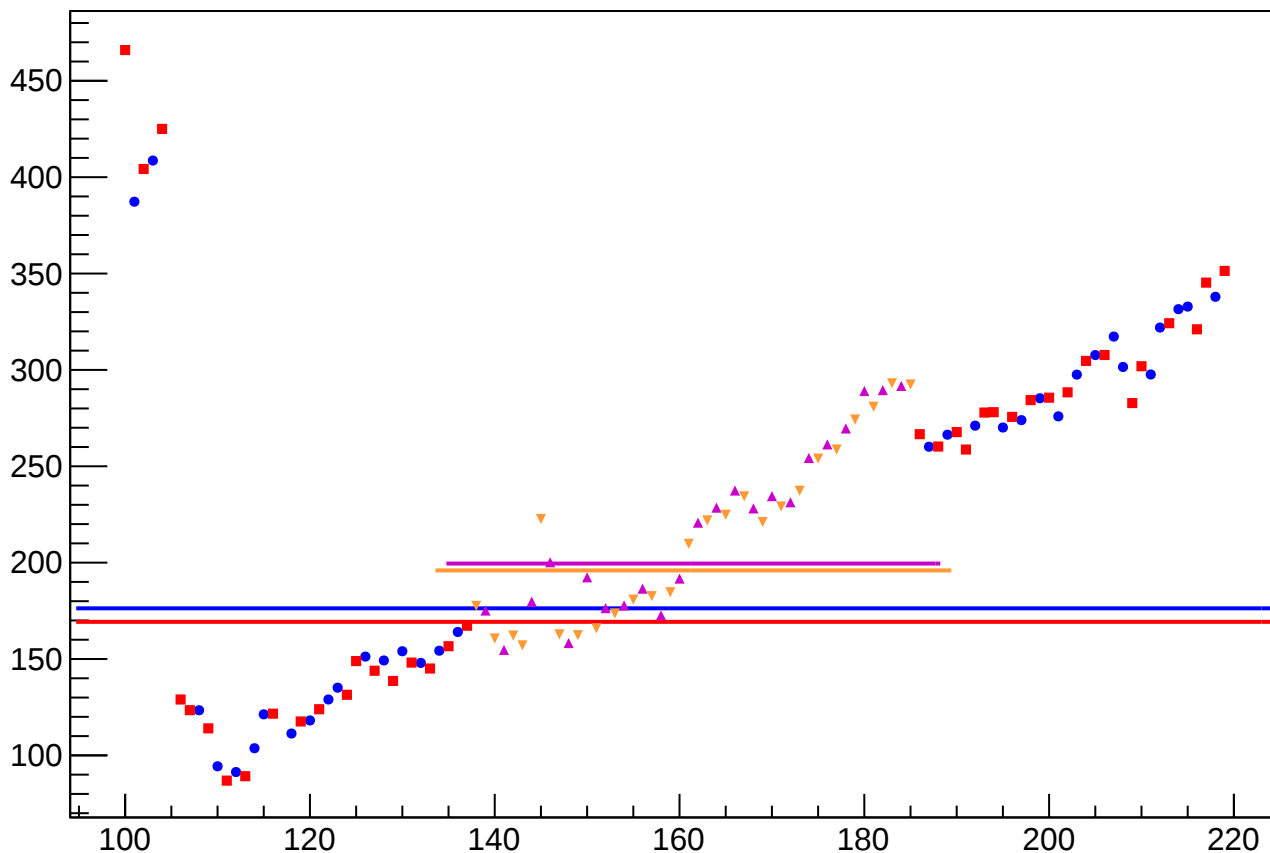
All: 0.807+/-0.000 χ^2/NDF : 8483633.4/117

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 140434.746 $\pm$ 0.046	χ^2 /NDF: 188248920148.3/32	Left: 128692.941 $\pm$ 0.034	χ^2 /NDF: 683588051.4/47
Left Out: 128713.791 $\pm$ 0.047	χ^2 /NDF: 348293942.5/24	Right: 140109.468 $\pm$ 0.032	χ^2 /NDF: 400394738214
Right Out: 139827.962 $\pm$ 0.043	χ^2 /NDF: 212053912440.3/36	In: 134860.220 $\pm$ 0.034	χ^2 /NDF: 219121725097.9
Left In: 128670.094 $\pm$ 0.049	χ^2 /NDF: 334875494.0/22	Out: 134708.562 $\pm$ 0.032	χ^2 /NDF: 243015852211.
		All: 134779.858 $\pm$ 0.023	χ^2 /NDF: 462148363

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 176.297 $\pm$ 0.033 χ^2 /NDF: 6760431.3/32

Left Out: 195.964 $\pm$ 0.033 χ^2 /NDF:1316091.7/24

Right Out: 169.286 $\pm$ 0.030 χ^2 /NDF: 7628770.9/36

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

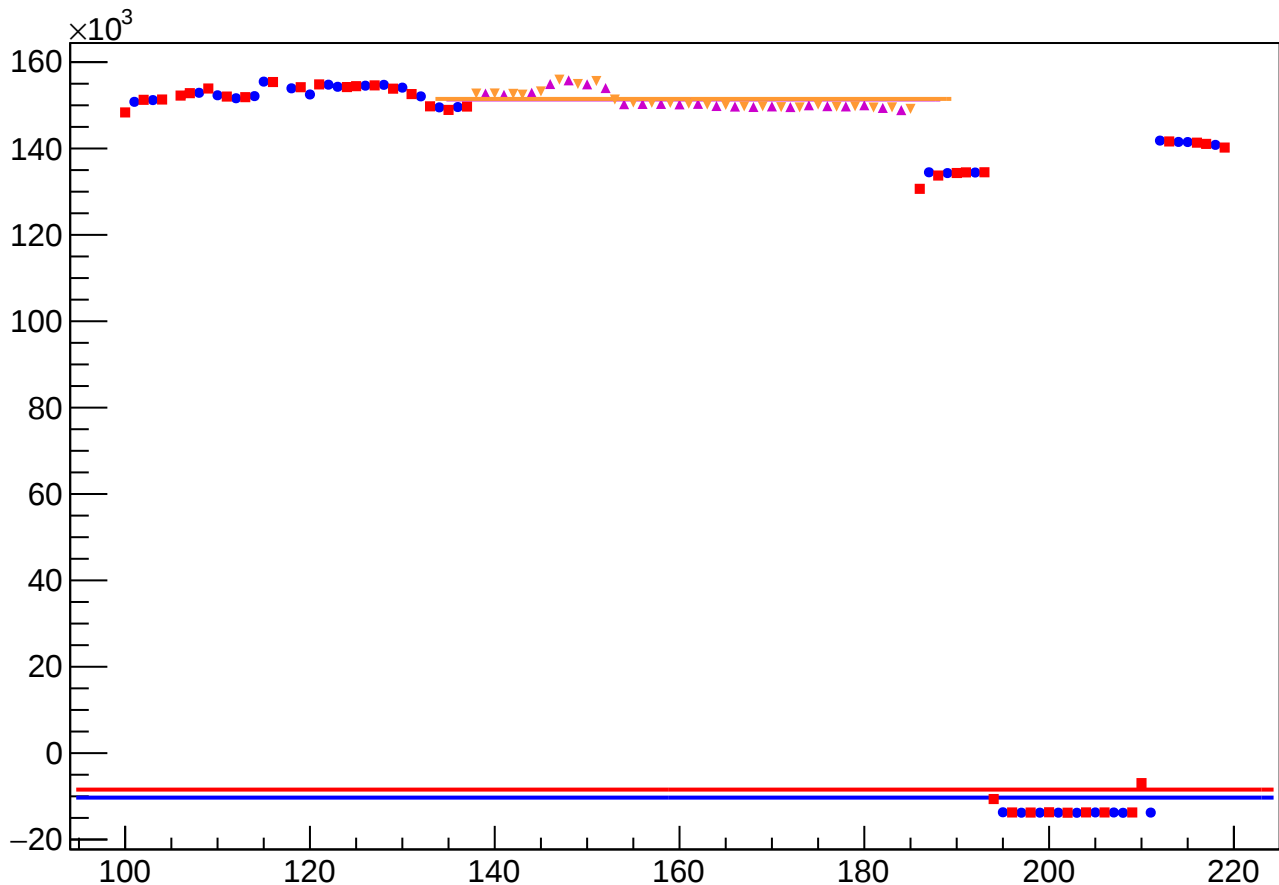
Right: 172.539 $\pm$ 0.022 χ^2 /NDF: 14413743.9/69

In: 187.306 $\pm$ 0.024 χ^2 /NDF:8173978.0/55

Out: 181.574 $\pm$ 0.022 χ^2 /NDF:9297631.9/61

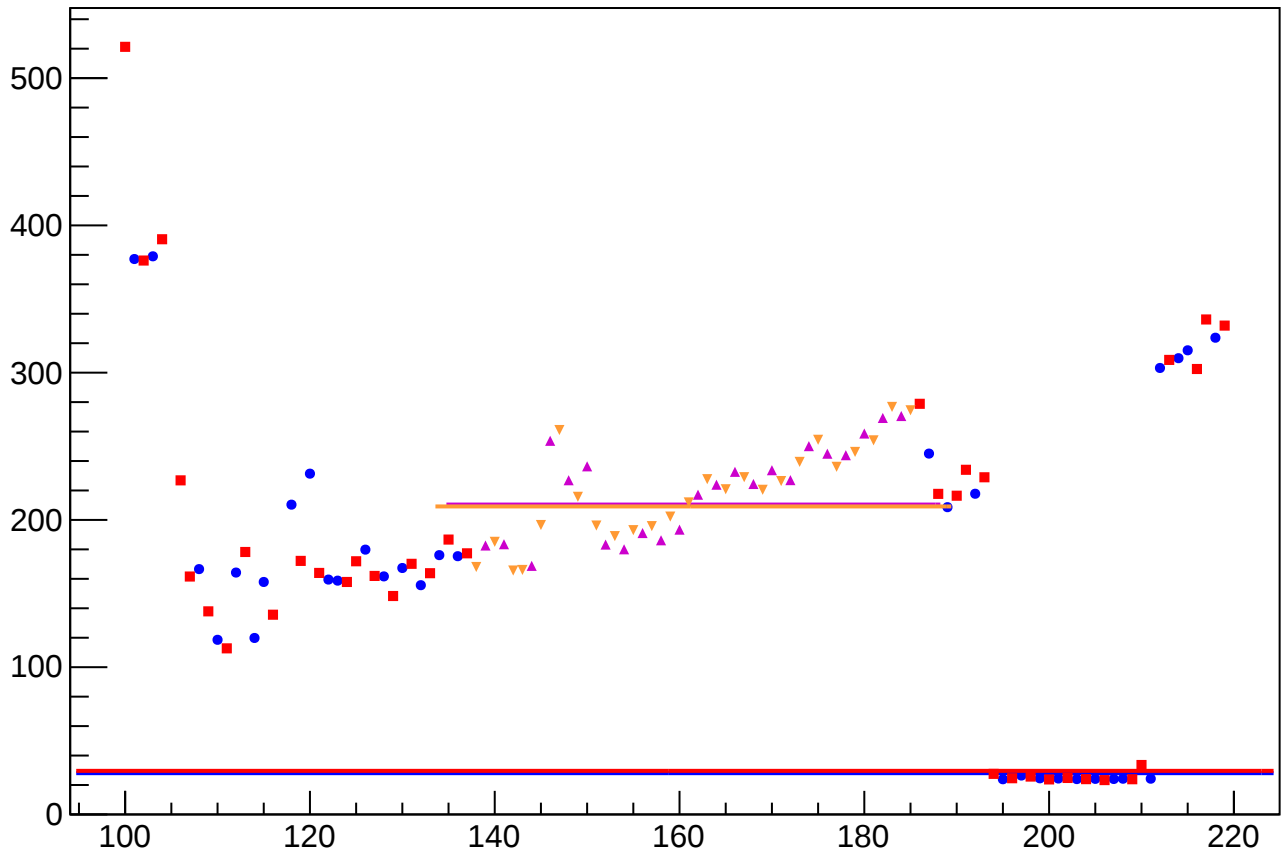
All: 184.269 $\pm$ 0.016 χ^2 /NDF: 17502425.3/11

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10297.072 $\pm$ 0.009	χ^2 /NDF: 6559543902722.5/32	Left: 151423.440 $\pm$ 0.036	χ^2 /NDF: 2913216467.1/32
Left Out: 151480.339 $\pm$ 0.049	χ^2 /NDF: 1483692735.3/24	Right: -9452.003 $\pm$ 0.007	χ^2 /NDF: 1440385988532.5/24
Right Out: -8441.955 $\pm$ 0.010	χ^2 /NDF: 7825736925962.9/36	In: -5260.227 $\pm$ 0.009	χ^2 /NDF: 16210808614056.8/36
Left In: 151362.440 $\pm$ 0.051	χ^2 /NDF: 1426782789.9/22	Out: -2112.817 $\pm$ 0.010	χ^2 /NDF: 17863290921293.9/22
		All: -3819.659 $\pm$ 0.007	χ^2 /NDF: 3412956132.5/22

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.035 ± 0.006 $\chi^2/\text{NDF}: 16338964.6/32$

Left Out: 209.156 ± 0.035 $\chi^2/\text{NDF}: 710094.9/24$

Right Out: 29.614 ± 0.007 $\chi^2/\text{NDF}: 18462619.3/36$

Left In: 210.431 ± 0.036 $\chi^2/\text{NDF}: 684015.0/22$

Left: 209.771 ± 0.025 $\chi^2/\text{NDF}: 1394750.9/47$

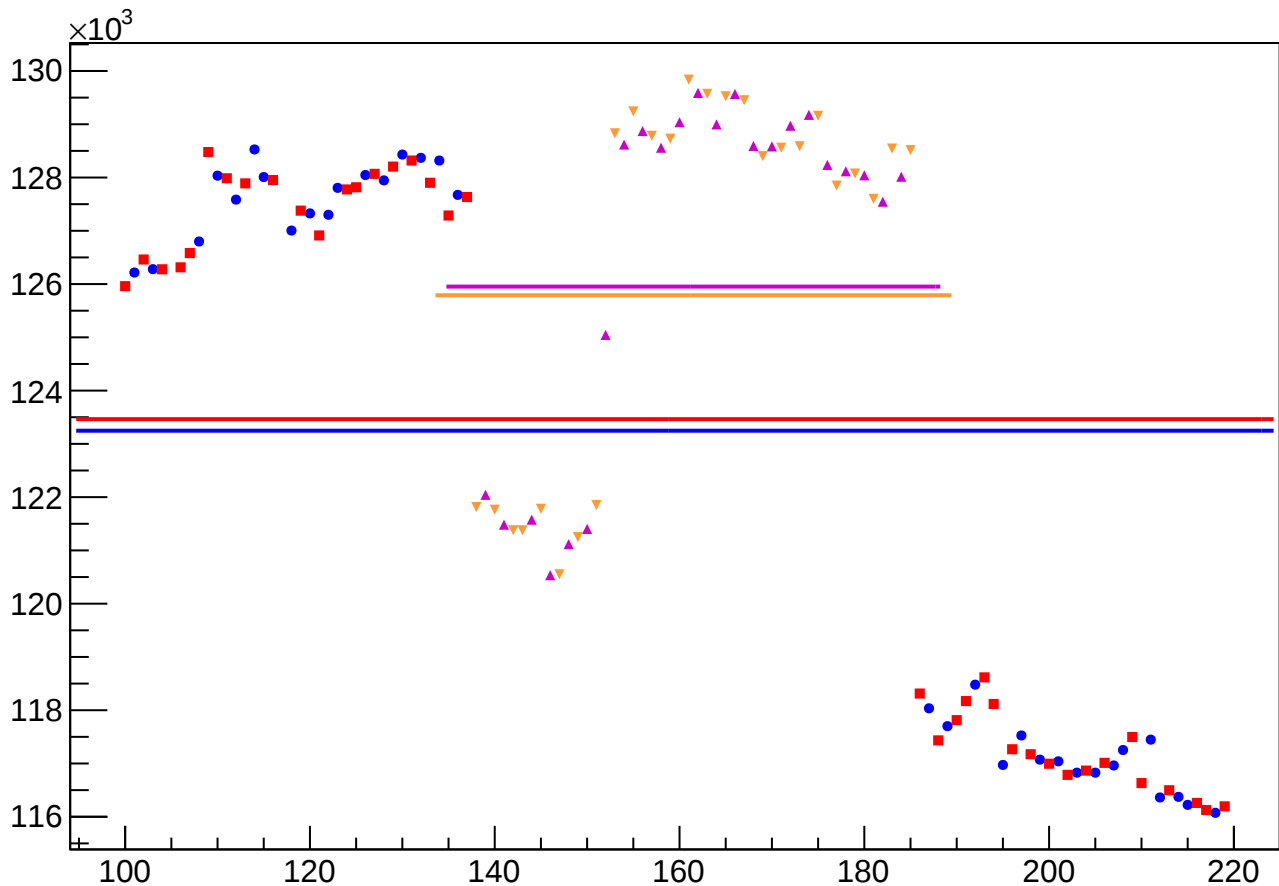
Right: 28.755 ± 0.005 $\chi^2/\text{NDF}: 34828509.6/69$

In: 33.718 ± 0.006 $\chi^2/\text{NDF}: 41591277.0/55$

Out: 36.720 ± 0.007 $\chi^2/\text{NDF}: 44471749.6/61$

All: 35.092 ± 0.005 $\chi^2/\text{NDF}: 86163926.5/117$

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123247.218 $\pm$ 0.044

Left Out: 125790.126 $\pm$ 0.044

Right Out: 123464.348 $\pm$ 0.042

Left In: 125952.447 $\pm$ 0.045

χ^2 /NDF: 14084487429.5/32

χ^2 /NDF: 6744310079.8/24

χ^2 /NDF: 15284952101.3/36

χ^2 /NDF: 5841800367.5/22

Left: 125870.001 $\pm$ 0.031

Right: 123361.726 $\pm$ 0.031

In: 124593.341 $\pm$ 0.032

Out: 124576.387 $\pm$ 0.030

χ^2 /NDF: 12592819321.6/32

χ^2 /NDF: 29382023937.8/24

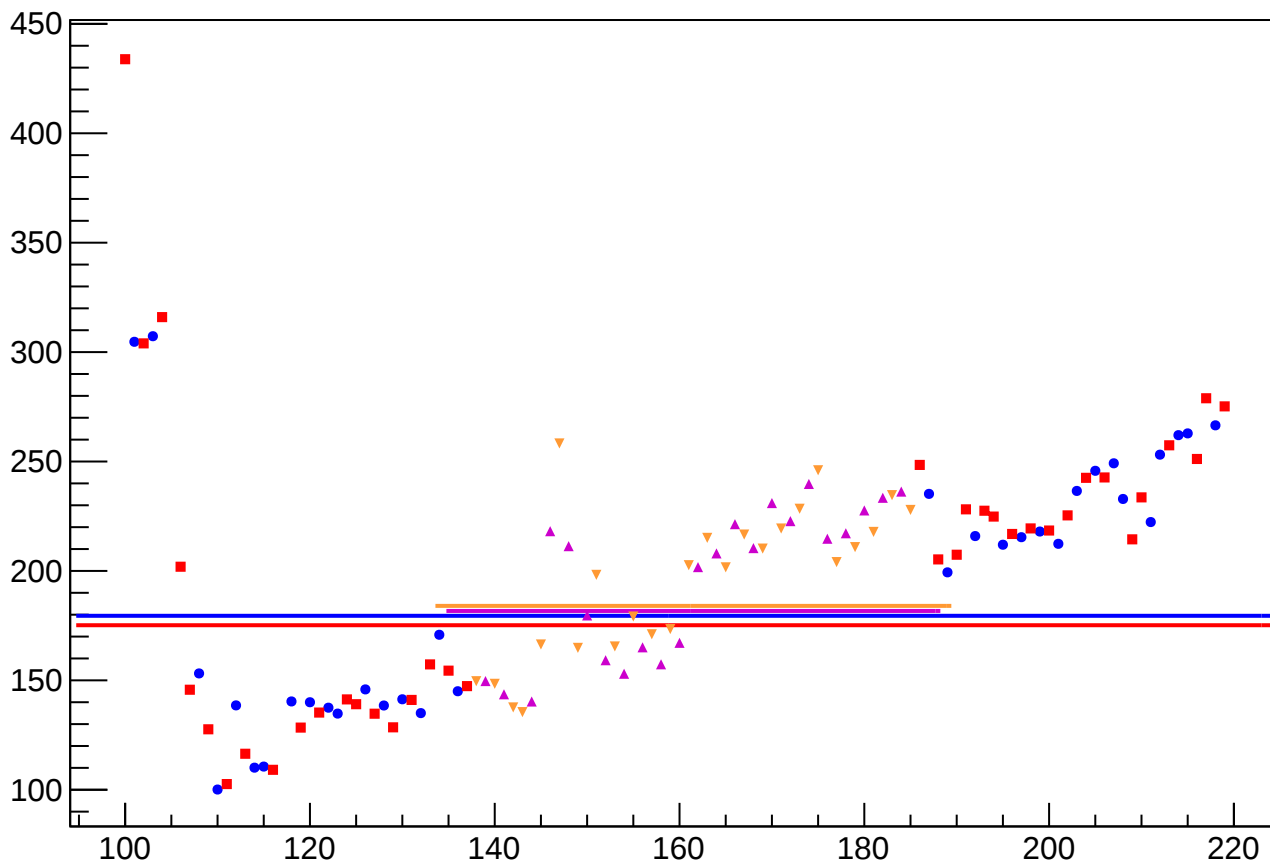
χ^2 /NDF: 21769465129.9/36

χ^2 /NDF: 23489946939.1/22

All: 124584.561 $\pm$ 0.022

χ^2 /NDF: 452595620.0/10

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 179.496 $\pm$ 0.031 χ^2 /NDF: 2933528.0/32

Left Out: 184.029 $\pm$ 0.031 χ^2 /NDF: 1126592.5/24

Right Out: 175.186 $\pm$ 0.030 χ^2 /NDF: 3566313.3/36

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

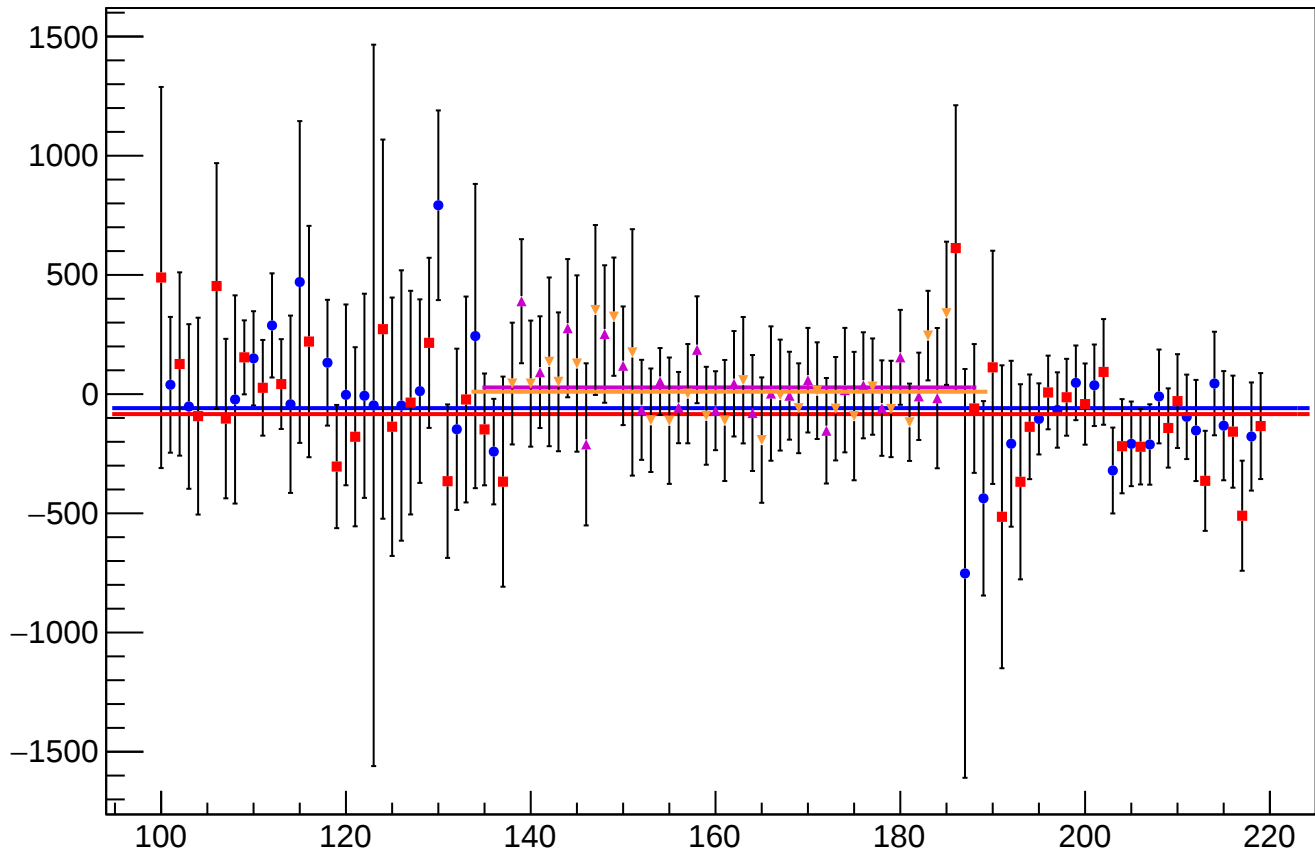
Right: 177.223 $\pm$ 0.022 χ^2 /NDF: 6509757.0/69

In: 180.600 $\pm$ 0.022 χ^2 /NDF: 4052147.7/55

Out: 179.414 $\pm$ 0.021 χ^2 /NDF: 4735137.1/61

All: 179.986 $\pm$ 0.015 χ^2 /NDF: 8788750.7/117

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -58.733 ± 41.891 $\chi^2/\text{NDF}: 17.6/32$

Left Out: 10.078 ± 47.488 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -83.794 ± 40.960 $\chi^2/\text{NDF}: 18.9/36$

Left In: 28.050 ± 44.573 $\chi^2/\text{NDF}: 7.0/22$

Left: 19.632 ± 32.499 $\chi^2/\text{NDF}: 15.5/47$

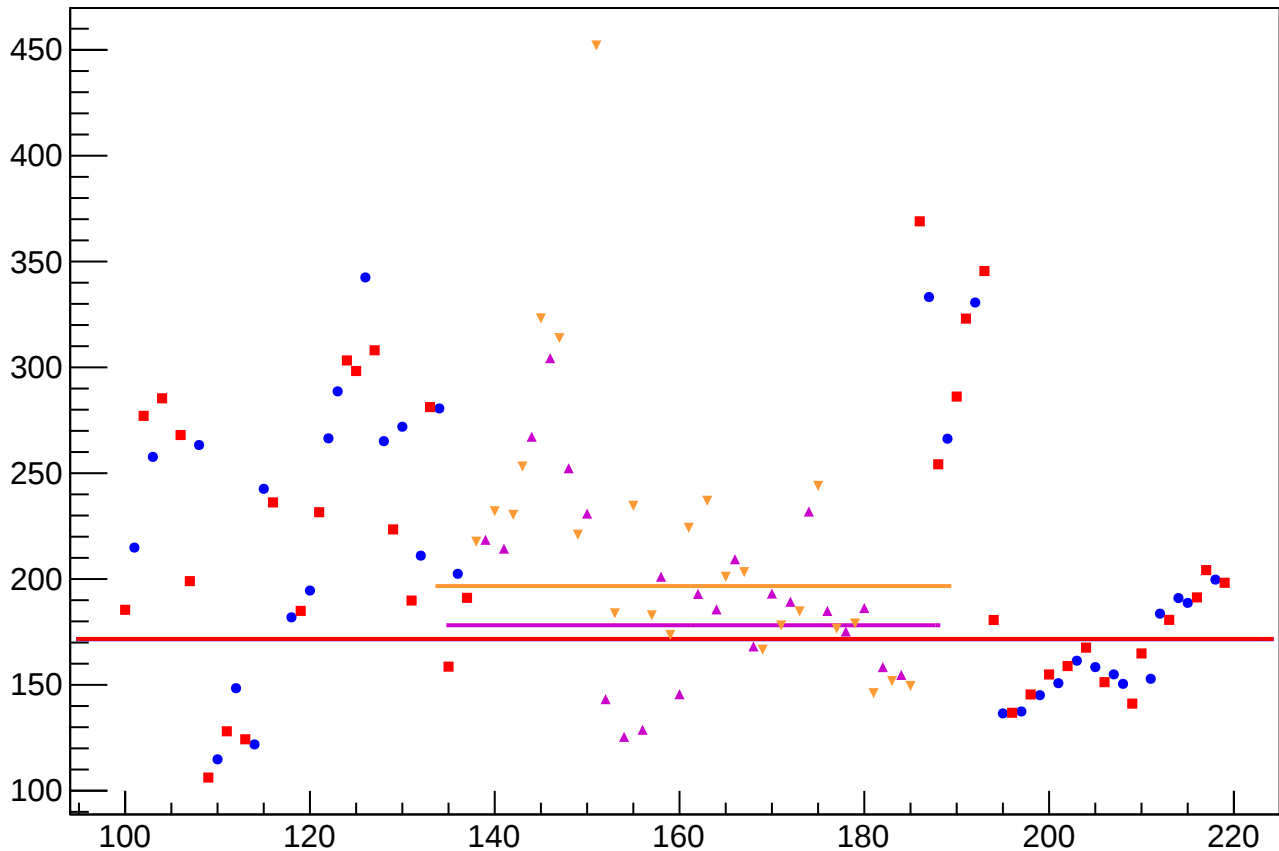
Right: -71.545 ± 29.287 $\chi^2/\text{NDF}: 36.7/69$

In: -18.030 ± 30.525 $\chi^2/\text{NDF}: 26.6/55$

Out: -43.749 ± 31.017 $\chi^2/\text{NDF}: 29.6/61$

All: -30.684 ± 21.756 $\chi^2/\text{NDF}: 56.5/117$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 171.550 $\pm$ 0.030 χ^2 /NDF: 2210403.7/32

Left Out: 196.682 $\pm$ 0.034 χ^2 /NDF:1782715.7/24

Right Out: 171.709 $\pm$ 0.029 χ^2 /NDF: 2936501.1/36

Left In: 178.166 $\pm$ 0.032 χ^2 /NDF:1618967.9/22

Left: 186.838 $\pm$ 0.023 χ^2 /NDF: 3563331.3/47

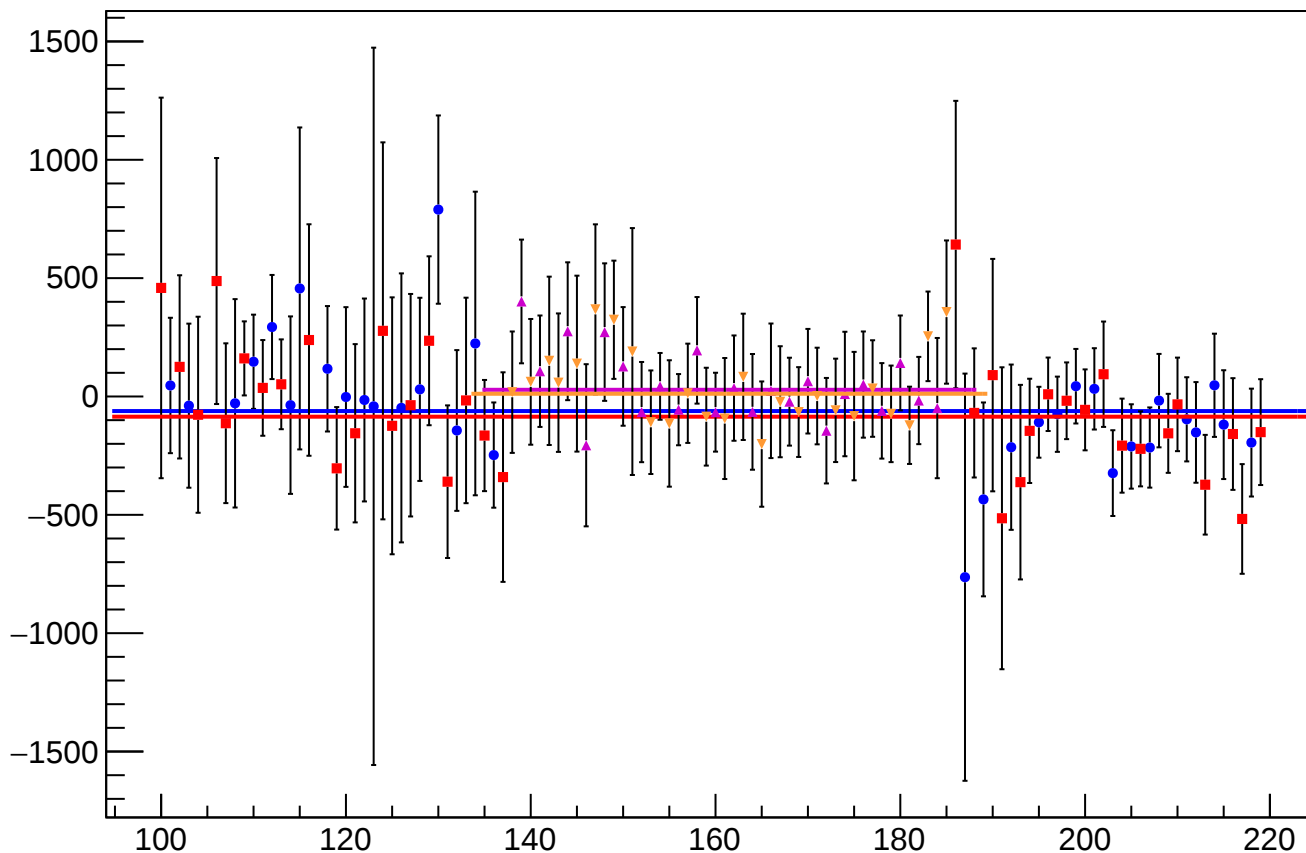
Right: 171.631 $\pm$ 0.021 χ^2 /NDF: 5146919.6/69

In: 174.653 $\pm$ 0.022 χ^2 /NDF:3852766.5/55

Out: 182.362 $\pm$ 0.022 χ^2 /NDF:5036346.4/61

All: 178.446 $\pm$ 0.015 χ^2 /NDF: 8951882.4/117

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -61.572 ± 42.080 $\chi^2/\text{NDF}: 17.6/32$

Left Out: 11.479 ± 47.819 $\chi^2/\text{NDF}: 8.8/24$

Right Out: -85.331 ± 41.158 $\chi^2/\text{NDF}: 19.4/36$

Left In: 28.280 ± 44.863 $\chi^2/\text{NDF}: 7.1/22$

Left: 20.415 ± 32.718 $\chi^2/\text{NDF}: 16.0/47$

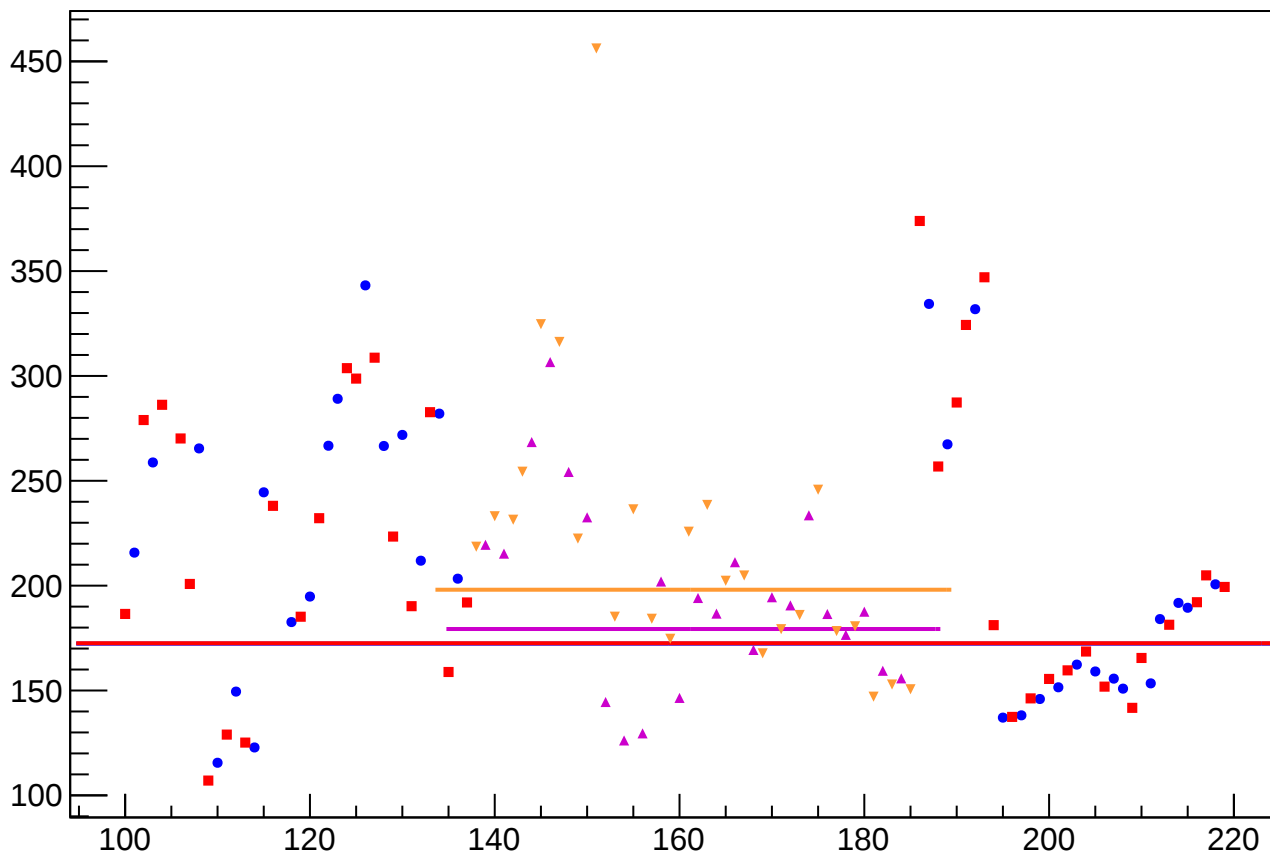
Right: -73.715 ± 29.423 $\chi^2/\text{NDF}: 37.2/69$

In: -19.520 ± 30.692 $\chi^2/\text{NDF}: 26.8/55$

Out: -44.134 ± 31.194 $\chi^2/\text{NDF}: 30.6/61$

All: -31.627 ± 21.878 $\chi^2/\text{NDF}: 57.7/117$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 172.343 $\pm$ 0.030 χ^2 /NDF: 2201537.3/32

Left Out: 198.059 $\pm$ 0.034 χ^2 /NDF:1778526.5/24

Right Out: 172.547 $\pm$ 0.029 χ^2 /NDF: 2931805.8/36

Left In: 179.324 $\pm$ 0.032 χ^2 /NDF:1618266.2/22

Left: 188.094 $\pm$ 0.023 χ^2 /NDF: 3560073.1/47

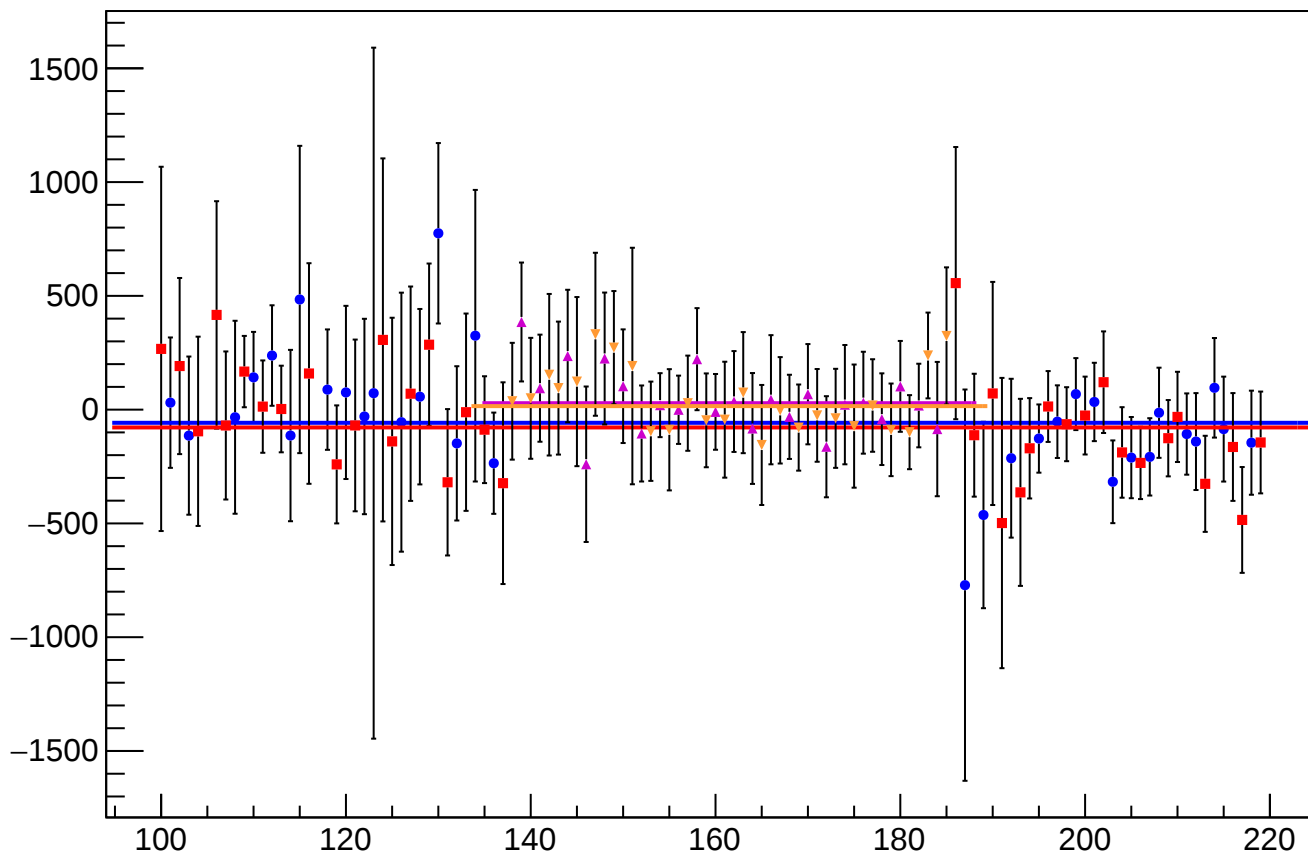
Right: 172.447 $\pm$ 0.021 χ^2 /NDF: 5133367.0/69

In: 175.610 $\pm$ 0.022 χ^2 /NDF:3845562.9/55

Out: 183.403 $\pm$ 0.022 χ^2 /NDF:5037354.2/61

All: 179.443 $\pm$ 0.015 χ^2 /NDF: 8946342.2/117

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -57.844 ± 42.167 $\chi^2/\text{NDF}: 17.1/32$

Left Out: 15.437 ± 47.695 $\chi^2/\text{NDF}: 7.0/24$

Right Out: -78.251 ± 41.194 $\chi^2/\text{NDF}: 17.0/36$

Left In: 28.277 ± 44.743 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.267 ± 32.632 $\chi^2/\text{NDF}: 13.4/47$

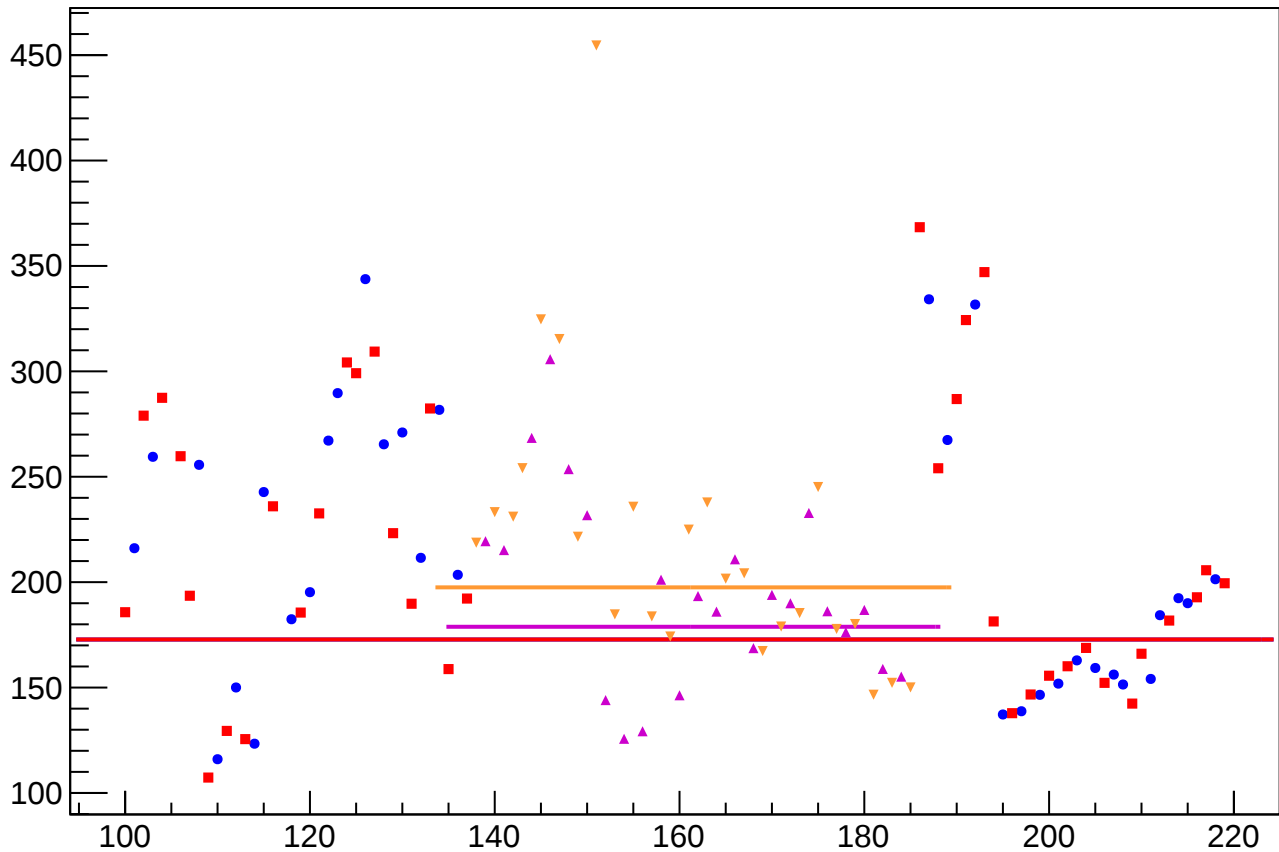
Right: -68.285 ± 29.466 $\chi^2/\text{NDF}: 34.2/69$

In: -17.334 ± 30.687 $\chi^2/\text{NDF}: 25.4/55$

Out: -38.222 ± 31.176 $\chi^2/\text{NDF}: 26.2/61$

All: -27.613 ± 21.870 $\chi^2/\text{NDF}: 51.8/117$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 172.783 ± 0.030 χ^2/NDF : 2169586.8/32

Left Out: 197.527 ± 0.034 χ^2/NDF : 1784225.5/24

Right Out: 172.810 ± 0.029 χ^2/NDF : 2885404.0/36

Left In: 178.836 ± 0.032 χ^2/NDF : 1622266.9/22

Left: 187.585 ± 0.023 χ^2/NDF : 3569877.1/47

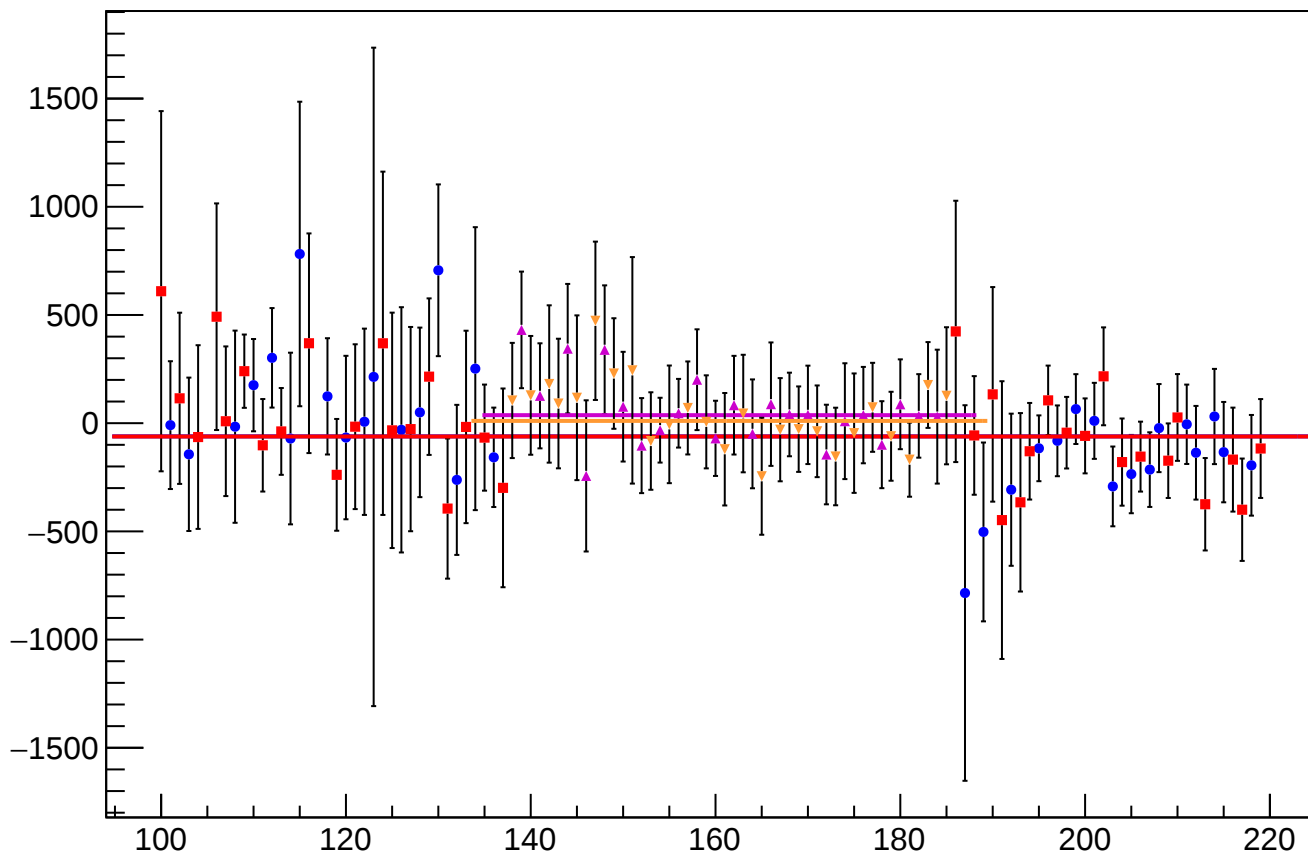
Right: 172.797 ± 0.021 χ^2/NDF : 5054991.2/69

In: 175.630 ± 0.022 χ^2/NDF : 3811235.6/55

Out: 183.370 ± 0.022 χ^2/NDF : 4977282.1/61

All: 179.439 ± 0.015 χ^2/NDF : 8851135.1/117

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -60.943 ± 43.058 $\chi^2/\text{NDF}: 17.8/32$

Left Out: 10.534 ± 49.197 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -61.587 ± 42.246 $\chi^2/\text{NDF}: 18.8/36$

Left In: 37.000 ± 46.358 $\chi^2/\text{NDF}: 7.9/22$

Left: 24.553 ± 33.739 $\chi^2/\text{NDF}: 15.5/47$

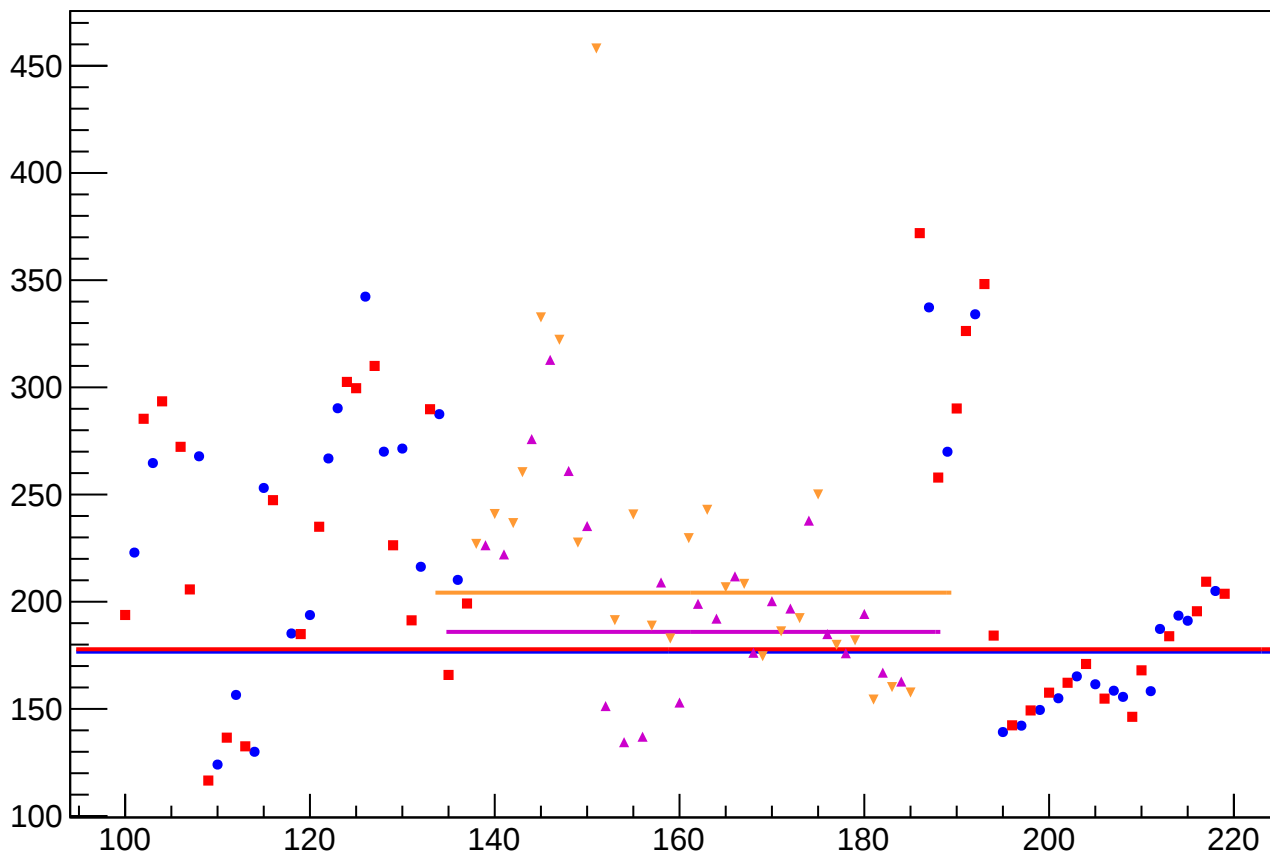
Right: -61.271 ± 30.155 $\chi^2/\text{NDF}: 36.6/69$

In: -15.581 ± 31.549 $\chi^2/\text{NDF}: 28.0/55$

Out: -30.977 ± 32.050 $\chi^2/\text{NDF}: 27.5/61$

All: -23.158 ± 22.484 $\chi^2/\text{NDF}: 55.7/117$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 176.695 $\pm$ 0.030 χ^2/NDF : 2083577.5/32

Left Out: 204.236 $\pm$ 0.035 χ^2/NDF :1675666.0/24

Right Out: 177.826 $\pm$ 0.030 χ^2/NDF : 2691450.4/36

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

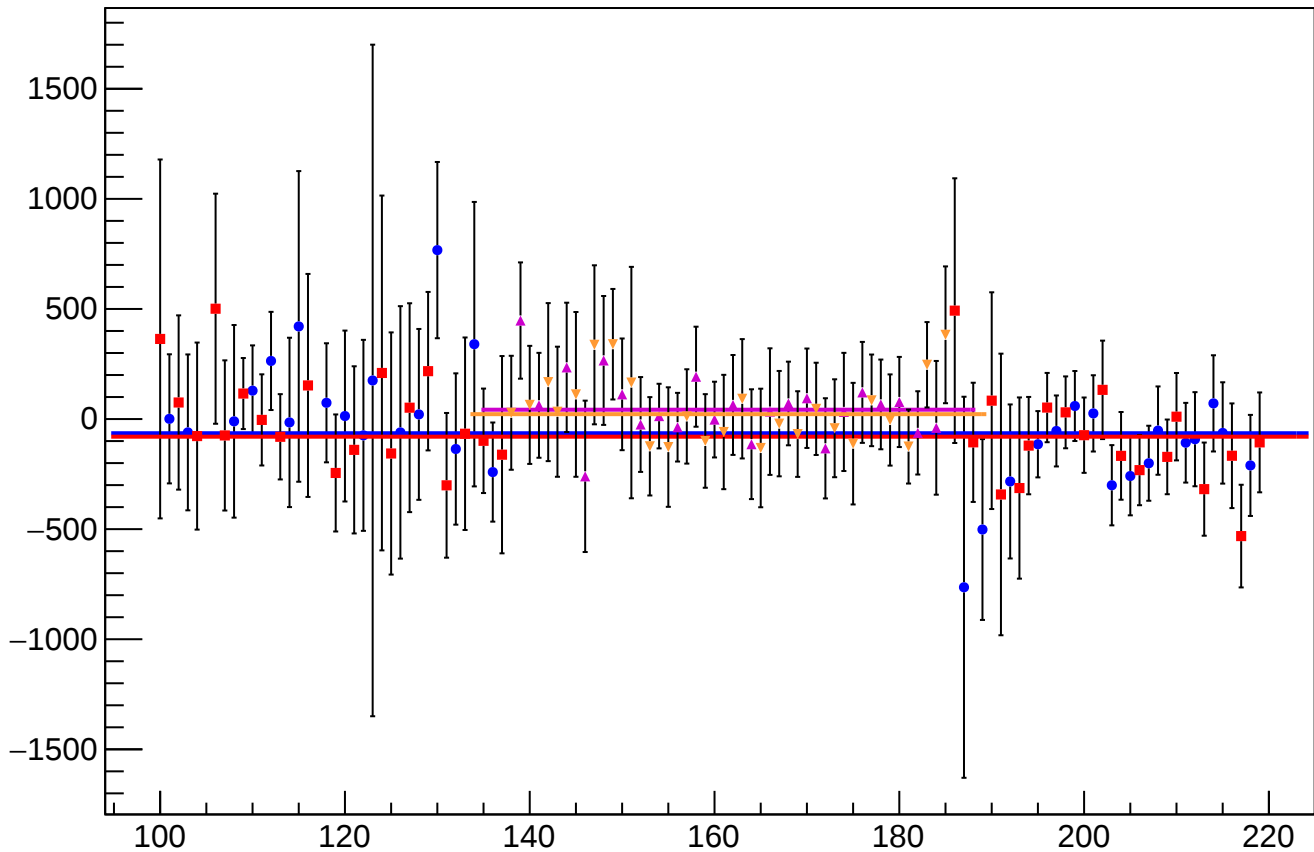
Right: 177.271 $\pm$ 0.021 χ^2/NDF : 4775730.6/69

In: 180.973 $\pm$ 0.022 χ^2/NDF :3586266.4/55

Out: 189.035 $\pm$ 0.023 χ^2/NDF :4698863.7/61

All: 184.940 $\pm$ 0.016 χ^2/NDF : 8349399.6/117

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -64.372 ± 42.526 $\chi^2/\text{NDF}: 16.9/32$

Left Out: 22.189 ± 48.738 $\chi^2/\text{NDF}: 8.4/24$

Right Out: -80.114 ± 41.616 $\chi^2/\text{NDF}: 15.7/36$

Left In: 42.446 ± 45.861 $\chi^2/\text{NDF}: 6.7/22$

Left: 32.933 ± 33.399 $\chi^2/\text{NDF}: 15.2/47$

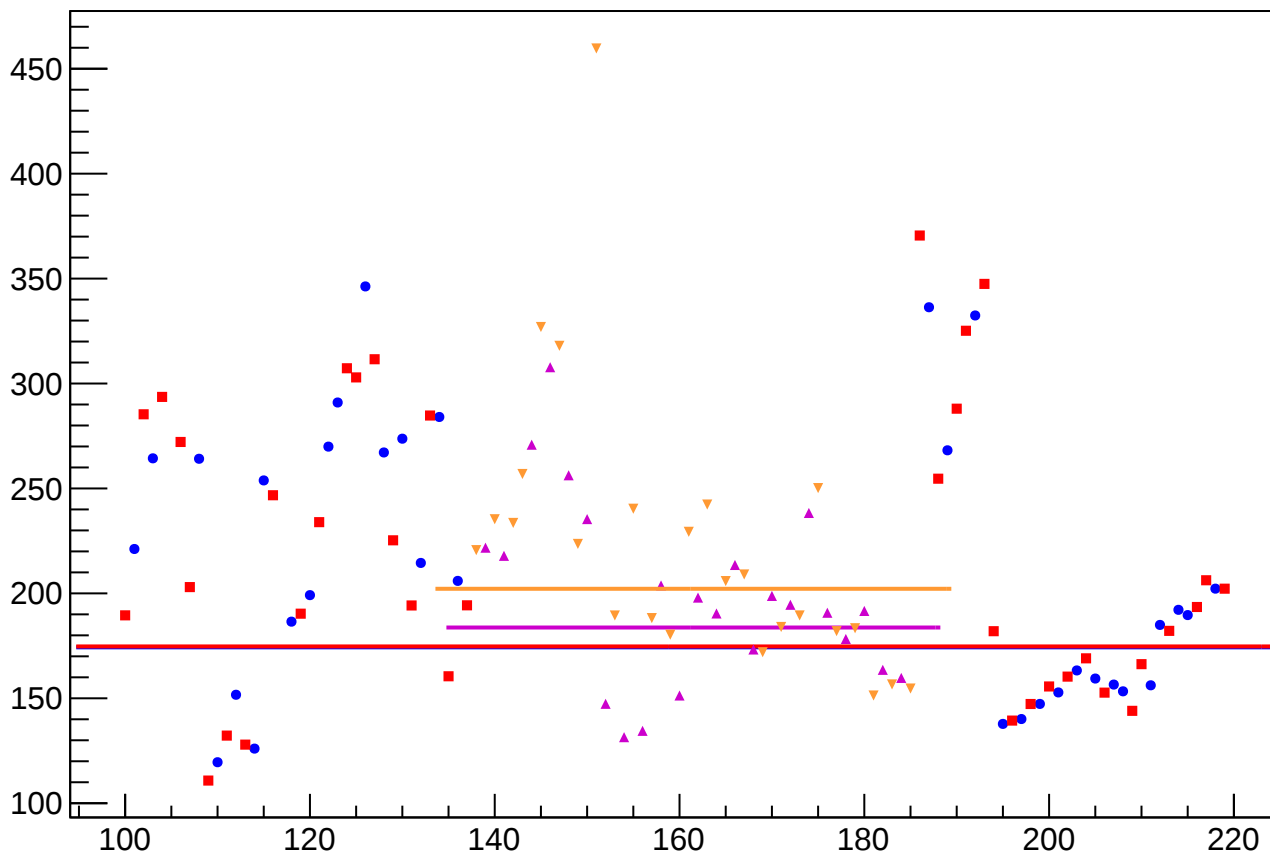
Right: -72.413 ± 29.744 $\chi^2/\text{NDF}: 32.7/69$

In: -14.987 ± 31.183 $\chi^2/\text{NDF}: 26.6/55$

Out: -36.977 ± 31.649 $\chi^2/\text{NDF}: 26.6/61$

All: -25.819 ± 22.212 $\chi^2/\text{NDF}: 53.4/117$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 174.290 $\pm$ 0.030 χ^2 /NDF: 2168918.6/32

Left Out: 202.186 $\pm$ 0.034 χ^2 /NDF:1696571.9/24

Right Out: 174.715 $\pm$ 0.029 χ^2 /NDF: 2859650.0/36

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

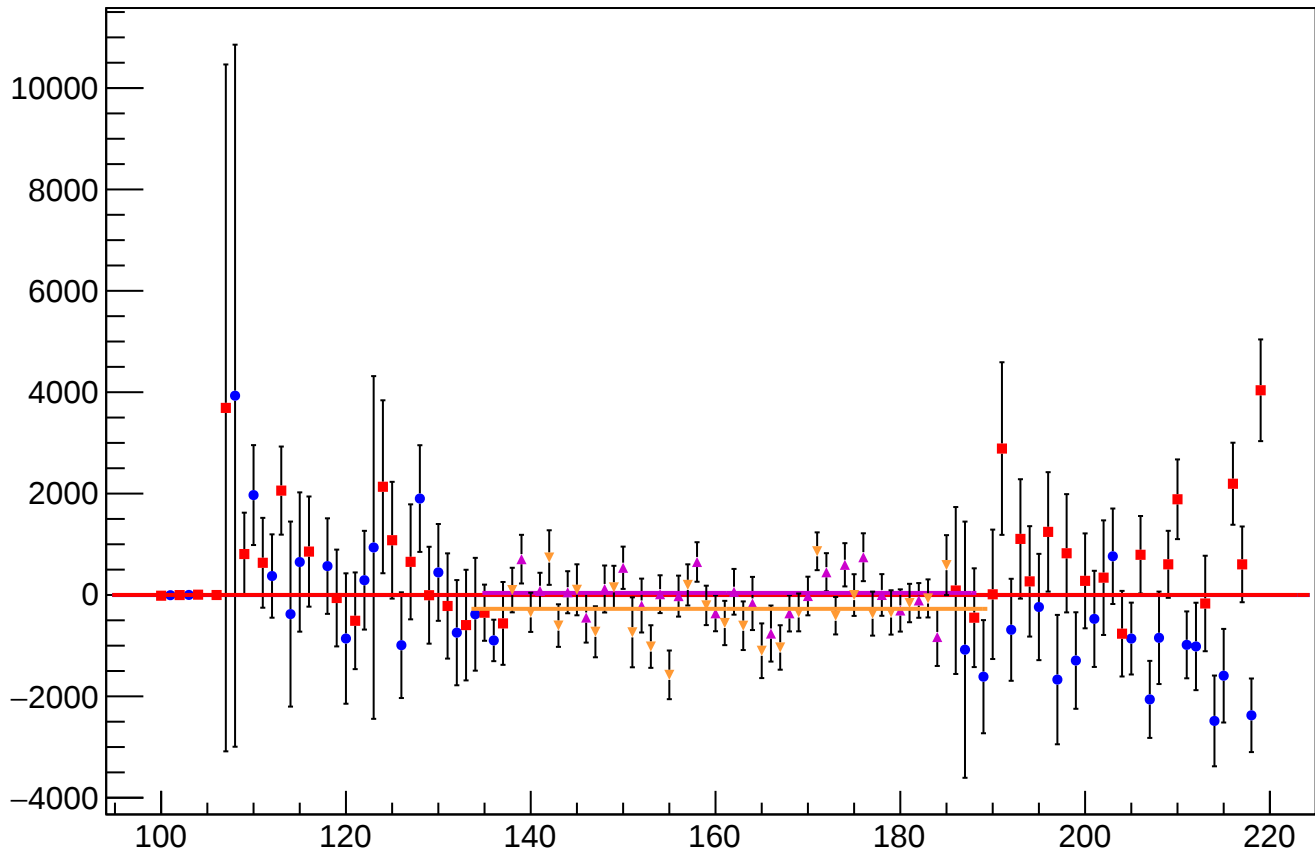
Right: 174.507 $\pm$ 0.021 χ^2 /NDF: 5028670.3/69

In: 178.656 $\pm$ 0.022 χ^2 /NDF:3710430.2/55

Out: 186.298 $\pm$ 0.022 χ^2 /NDF:4923705.7/61

All: 182.420 $\pm$ 0.016 χ^2 /NDF: 8693317.5/117

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.649 ± 2.251 χ^2/NDF : 58.7/32

Left Out: -273.664 ± 86.869 χ^2/NDF : 38.3/24

Right Out: 0.805 ± 2.111 χ^2/NDF : 56.8/36

Left In: 40.480 ± 87.470 χ^2/NDF : 20.2/22

Left: -117.675 ± 61.637 χ^2/NDF : 65.0/47

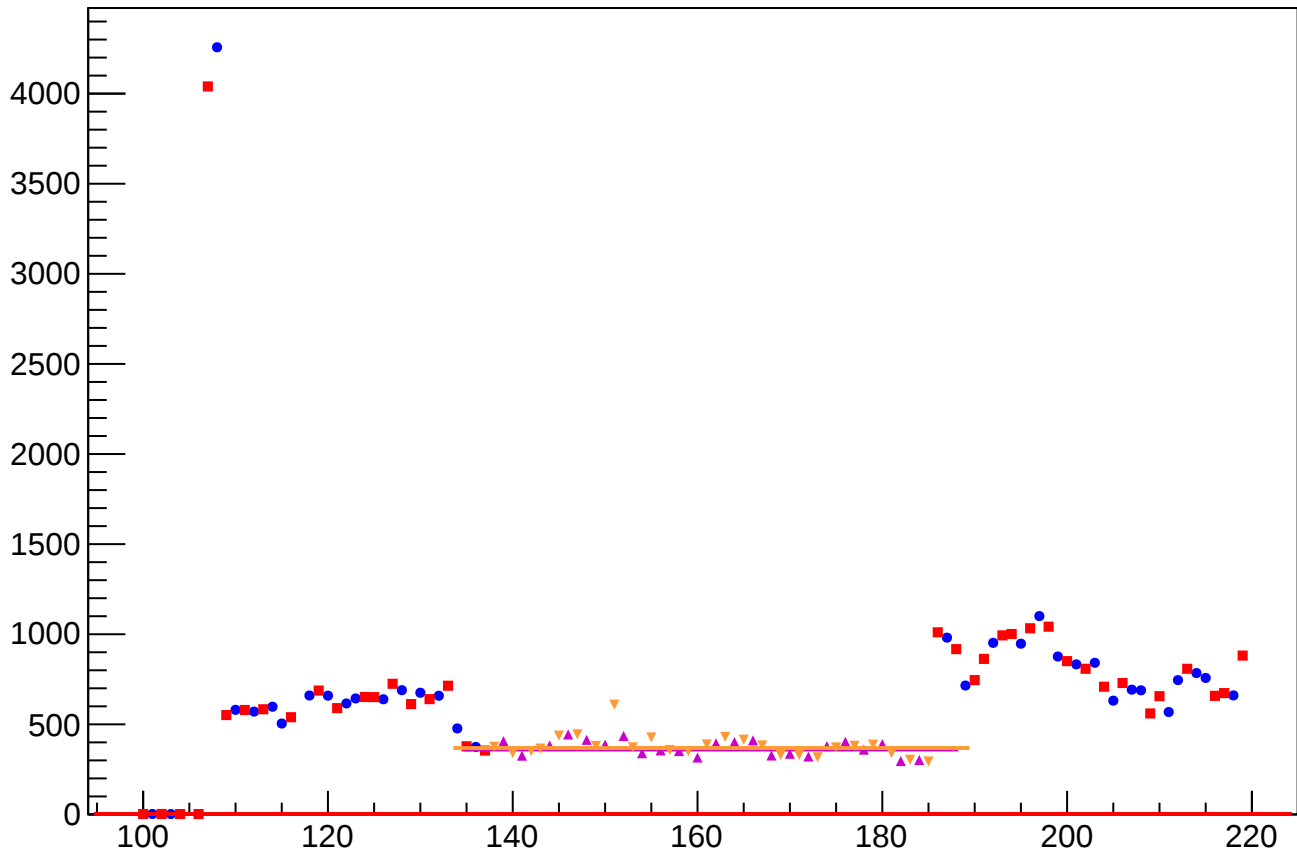
Right: -0.343 ± 1.540 χ^2/NDF : 116.1/69

In: -1.621 ± 2.251 χ^2/NDF : 79.1/55

Out: 0.643 ± 2.110 χ^2/NDF : 105.0/61

All: -0.417 ± 1.539 χ^2/NDF : 184.7/117

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.530+/-0.002 χ^2/NDF : 33296484.7/32

Left Out: 368.500+/-0.061 χ^2/NDF : 623011.6/24

Right Out: 2.505+/-0.001 χ^2/NDF : 35613171.2/36

Left In: 360.571+/-0.062 χ^2/NDF : 421995.5/22

Left: 364.563+/-0.044 χ^2/NDF : 1053279.8/47

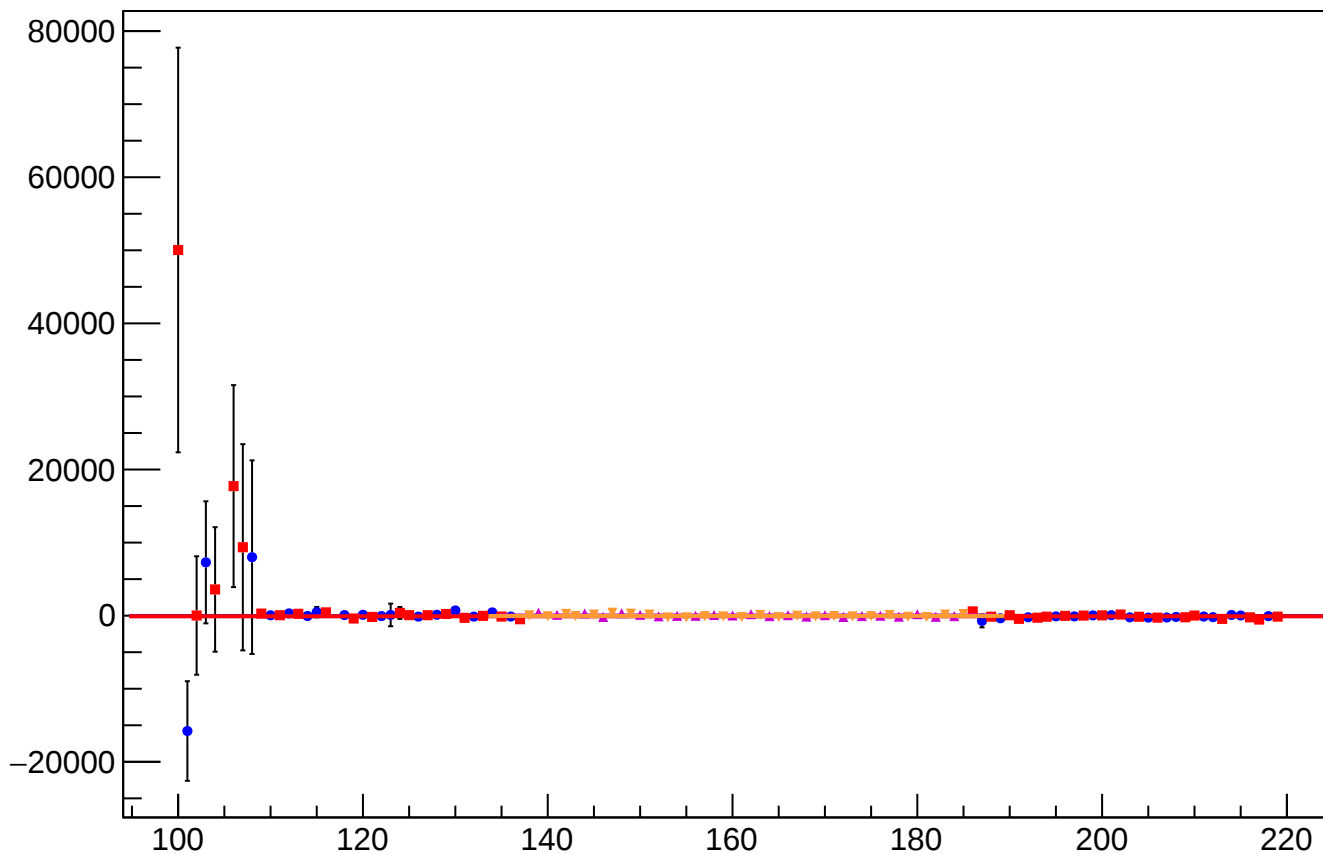
Right: 2.517+/-0.001 χ^2/NDF : 68909795.1/69

In: 2.767+/-0.002 χ^2/NDF : 67206536.1/55

Out: 2.721+/-0.001 χ^2/NDF : 71716887.2/61

All: 2.743+/-0.001 χ^2/NDF : 138923882.8/117

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -58.002 ± 46.234 χ^2/NDF : 21.5/32

Left Out: -39.036 ± 49.576 χ^2/NDF : 9.1/24

Right Out: -81.697 ± 45.836 χ^2/NDF : 28.4/36

Left In: 28.062 ± 48.032 χ^2/NDF : 9.6/22

Left: -4.426 ± 34.497 χ^2/NDF : 19.7/47

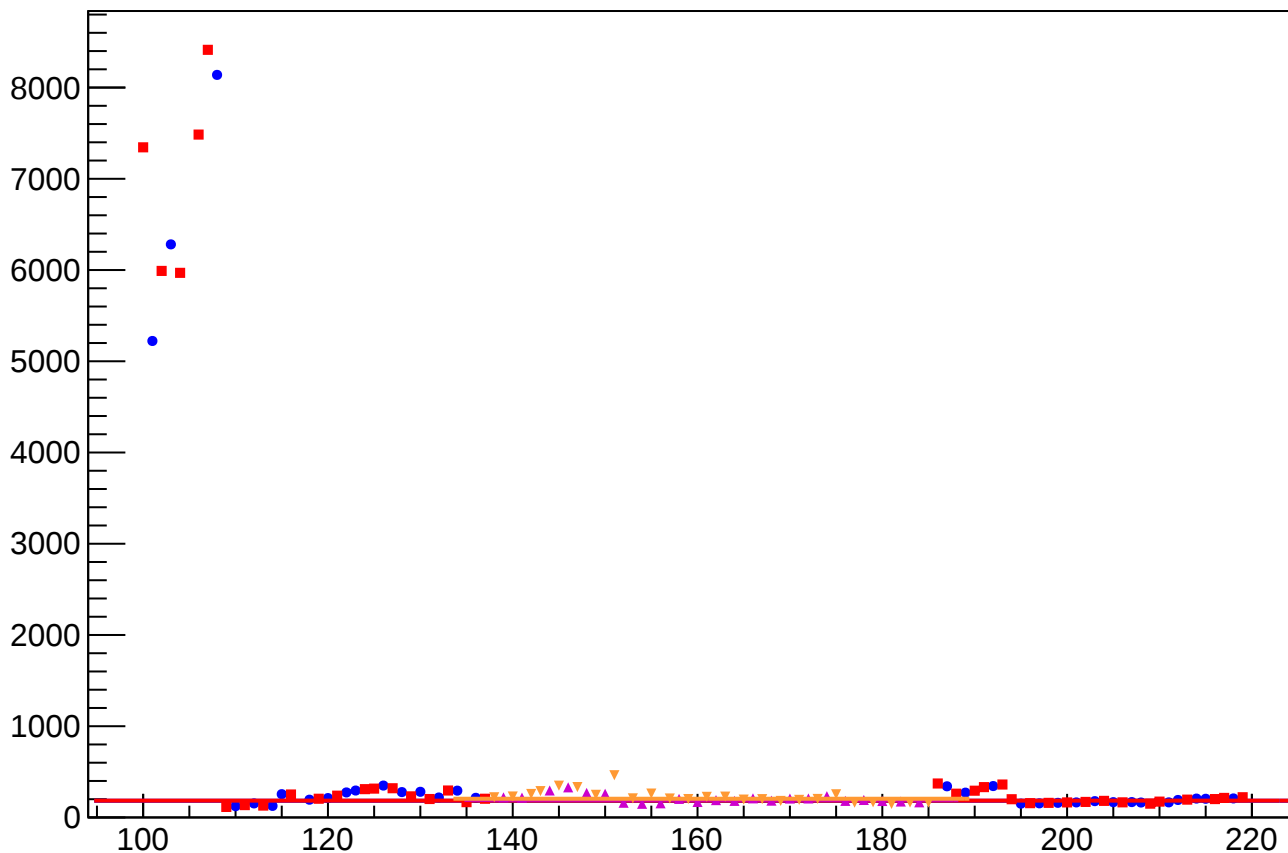
Right: -69.952 ± 32.551 χ^2/NDF : 50.0/69

In: -16.612 ± 33.310 χ^2/NDF : 32.8/55

Out: -62.036 ± 33.656 χ^2/NDF : 37.9/61

All: -39.089 ± 23.675 χ^2/NDF : 71.6/117

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 182.748+/-0.033 χ^2/NDF : 4603077.6/32

Left Out: 205.114+/-0.035 χ^2/NDF :1957484.4/24

Right Out: 184.336+/-0.032 χ^2/NDF : 5519420.7/36

Left In: 193.616+/-0.034 χ^2/NDF :1179471.1/22

Left: 199.183+/-0.024 χ^2/NDF : 3192443.5/47

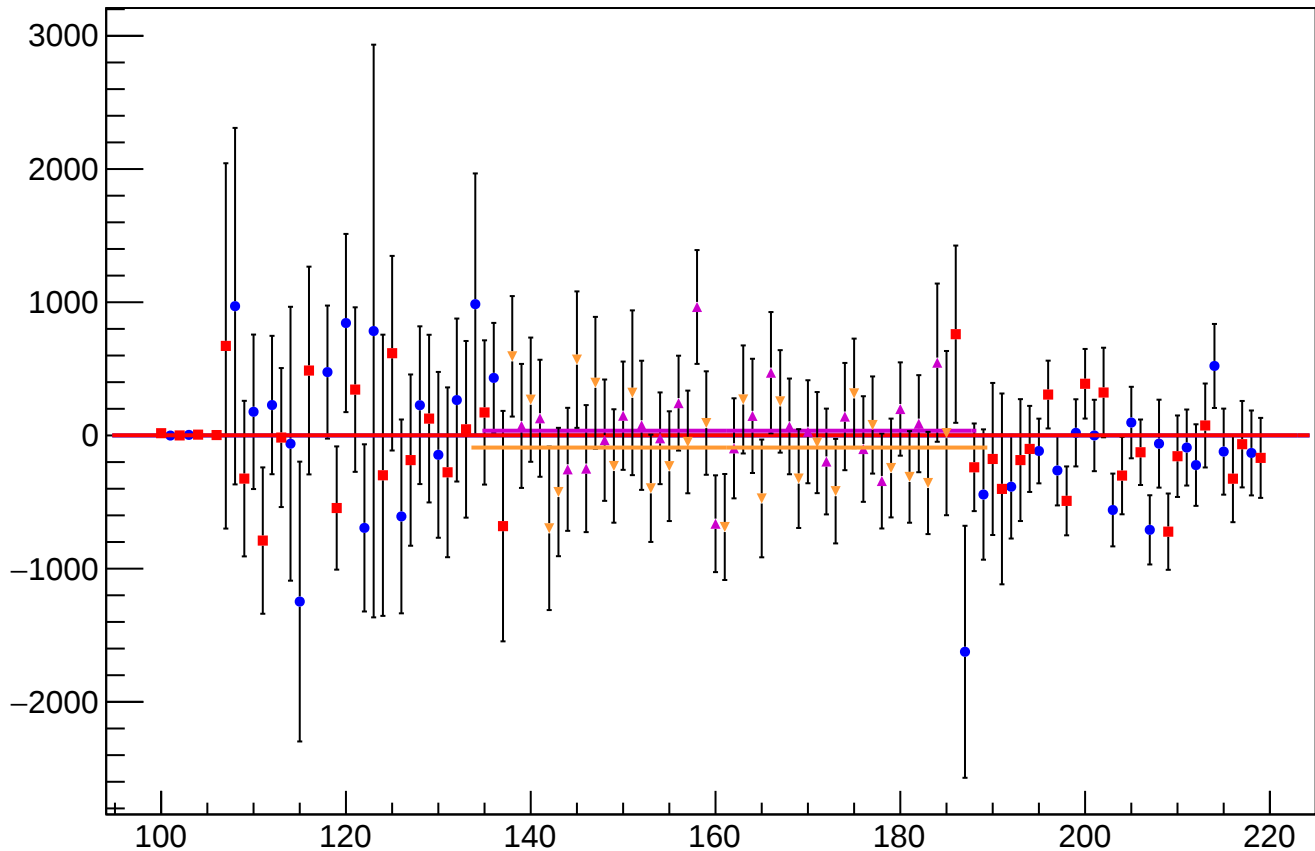
Right: 183.549+/-0.023 χ^2/NDF : 10123688.1/69

In: 187.975+/-0.024 χ^2/NDF :5835694.1/55

Out: 193.912+/-0.024 χ^2/NDF :7666298.2/61

All: 190.913+/-0.017 χ^2/NDF : 13533431.5/131

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.230 $\pm$ 1.736 χ^2/NDF : 31.6/32

Left Out: -90.945 $\pm$ 84.079 χ^2/NDF : 16.4/24

Right Out: 1.273 $\pm$ 1.622 χ^2/NDF : 29.4/36

Left In: 35.488 $\pm$ 84.382 χ^2/NDF : 13.4/22

Left: -27.956 $\pm$ 59.560 χ^2/NDF : 31.0/47

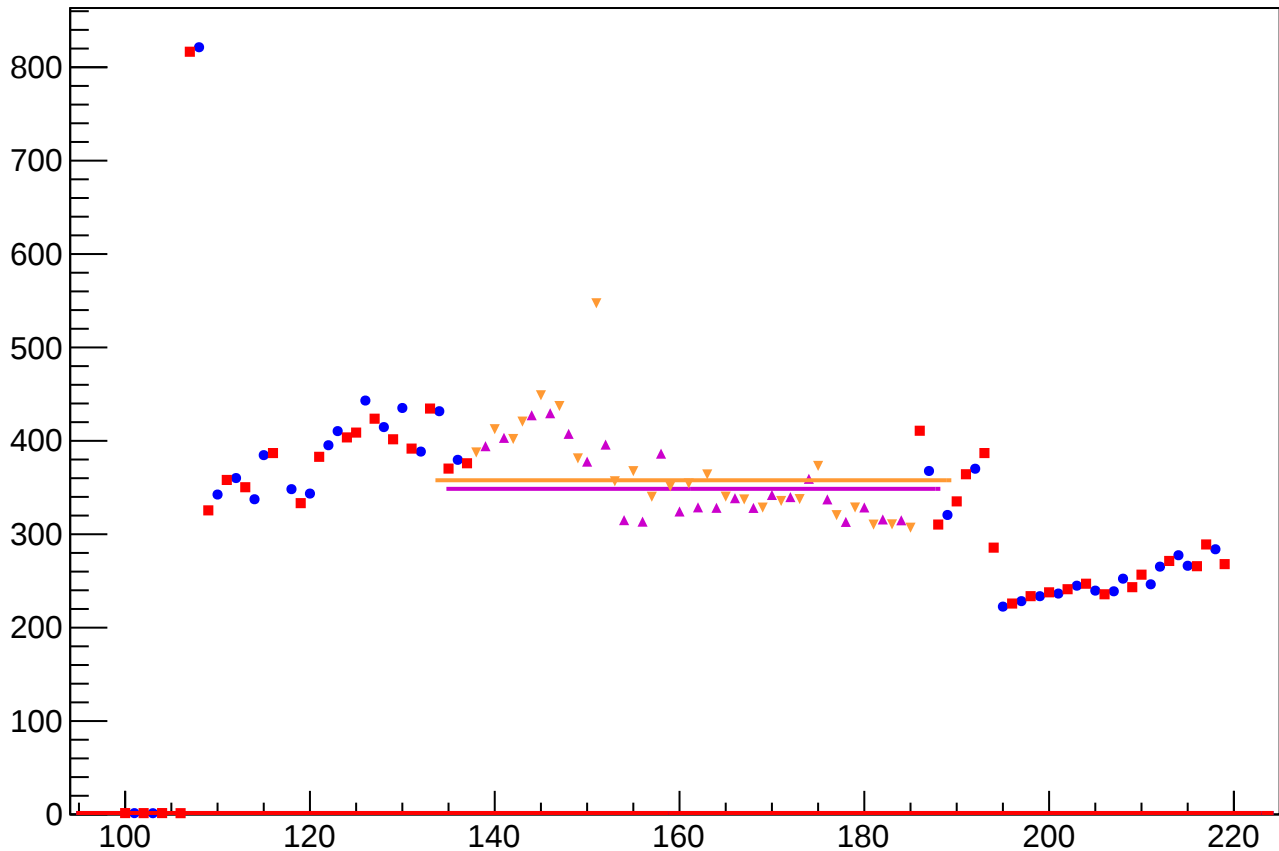
Right: 0.573 $\pm$ 1.185 χ^2/NDF : 61.3/69

In: -0.215 $\pm$ 1.736 χ^2/NDF : 45.2/55

Out: 1.239 $\pm$ 1.622 χ^2/NDF : 47.0/61

All: 0.561 $\pm$ 1.185 χ^2/NDF : 92.6/117

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.586 ± 0.001 χ^2/NDF : 33492568.6/32

Left Out: 357.804 ± 0.059 χ^2/NDF : 547036.5/24

Right Out: 1.572 ± 0.001 χ^2/NDF : 35314859.7/36

Left In: 348.611 ± 0.060 χ^2/NDF : 362511.2/22

Left: 353.224 ± 0.042 χ^2/NDF : 921460.0/47

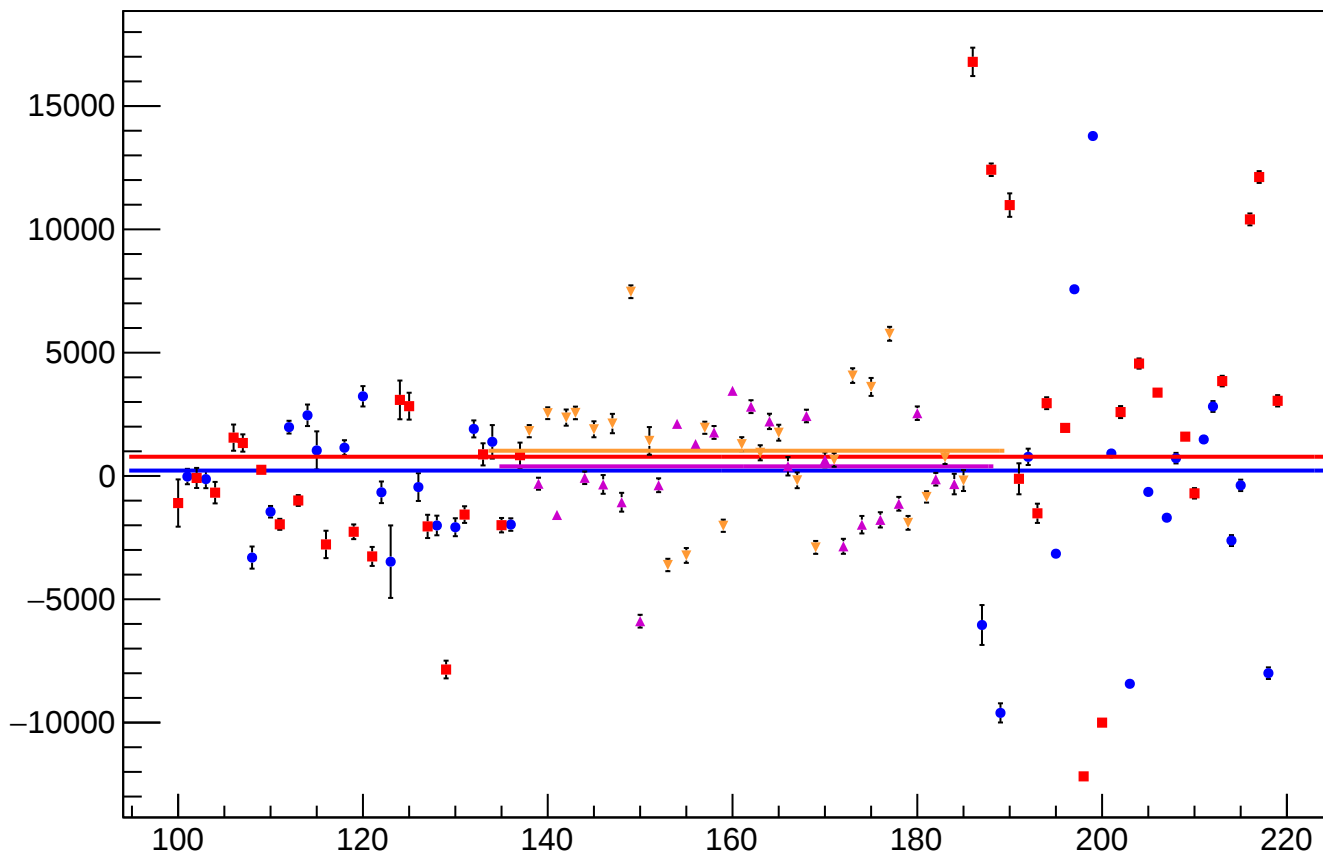
Right: 1.578 ± 0.001 χ^2/NDF : 68807499.6/69

In: 1.733 ± 0.001 χ^2/NDF : 67666589.5/55

Out: 1.704 ± 0.001 χ^2/NDF : 71751164.5/61

All: 1.718 ± 0.001 χ^2/NDF : 139418041.3/117

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 219.109 $\pm$ 45.763 χ^2 /NDF: 12622.2/32

Left Out: 1023.439 $\pm$ 57.338 χ^2 /NDF: 2309.4/24

Right Out: 779.863 $\pm$ 44.565 χ^2 /NDF: 18002.1/36

Left In: 390.237 $\pm$ 54.931 χ^2 /NDF: 1584.9/22

Left: 693.270 $\pm$ 39.666 χ^2 /NDF: 3957.9/47

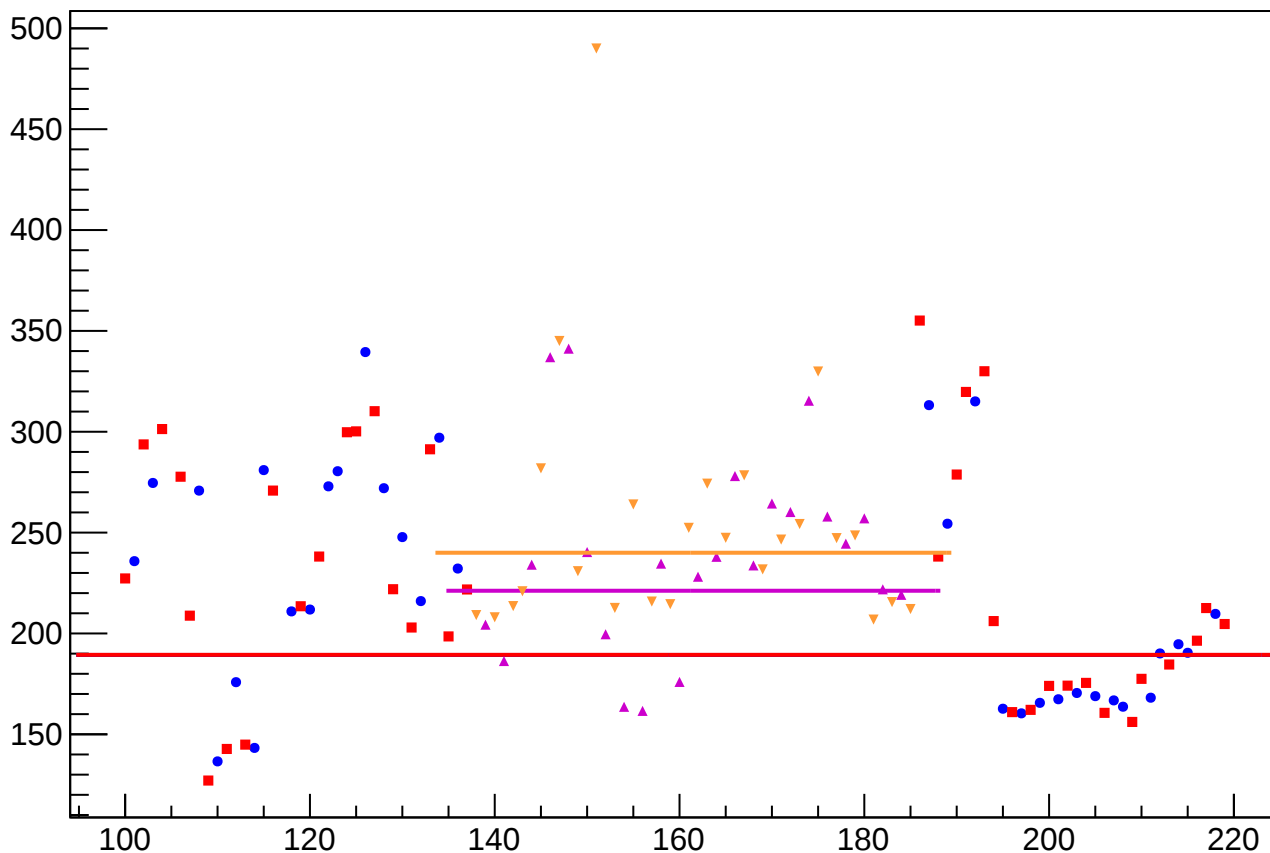
Right: 506.920 $\pm$ 31.927 χ^2 /NDF: 30701.3/69

In: 289.220 $\pm$ 35.160 χ^2 /NDF: 14212.8/55

Out: 871.593 $\pm$ 35.187 χ^2 /NDF: 20322.7/61

All: 580.185 $\pm$ 24.871 χ^2 /NDF: 34672.6/117

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 189.333 ± 0.032 $\chi^2/\text{NDF}: 1559900.2/32$

Left Out: 240.019 ± 0.041 $\chi^2/\text{NDF}: 1002427.9/24$

Right Out: 189.394 ± 0.032 $\chi^2/\text{NDF}: 2154206.9/36$

Left In: 221.173 ± 0.039 $\chi^2/\text{NDF}: 1342517.8/22$

Left: 230.192 ± 0.028 $\chi^2/\text{NDF}: 2457612.6/47$

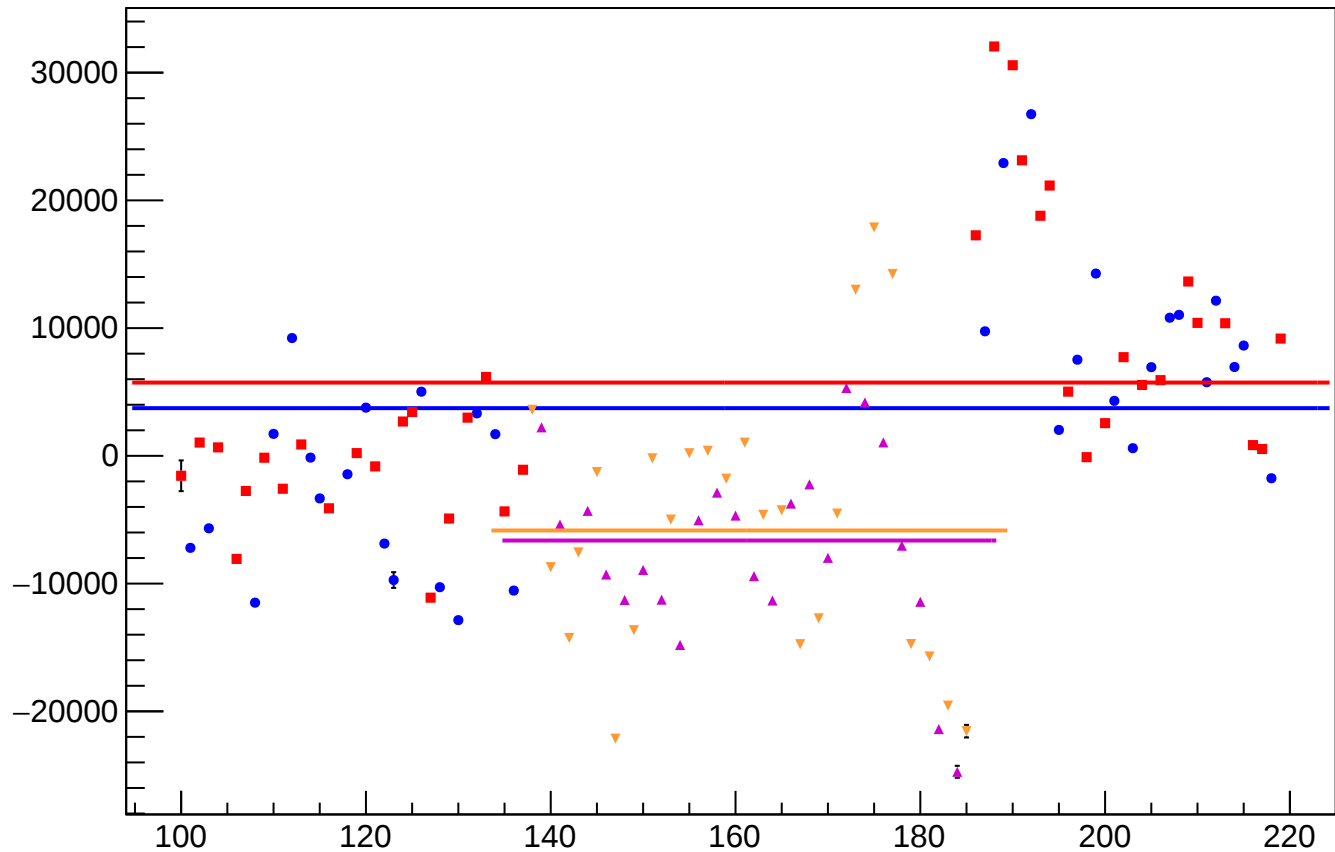
Right: 189.364 ± 0.023 $\chi^2/\text{NDF}: 3714108.9/69$

In: 202.378 ± 0.025 $\chi^2/\text{NDF}: 3299066.1/55$

Out: 208.459 ± 0.025 $\chi^2/\text{NDF}: 4128585.8/61$

All: 205.416 ± 0.018 $\chi^2/\text{NDF}: 7457547.5/117$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3733.894+/-33.368

χ^2/NDF : 85066.6/32

Left Out: -5841.615+/-35.848

χ^2/NDF : 63397.3/24

Right Out: 5736.831+/-31.744

χ^2/NDF : 105940.0/36

Left In: -6628.388+/-37.160

χ^2/NDF : 21738.0/22

Left: -6220.862+/-25.800

χ^2/NDF : 85367.5/47

Right: 4785.279+/-22.999

χ^2/NDF : 192897.9/69

In: -891.718+/-24.828

χ^2/NDF : 149853.4/55

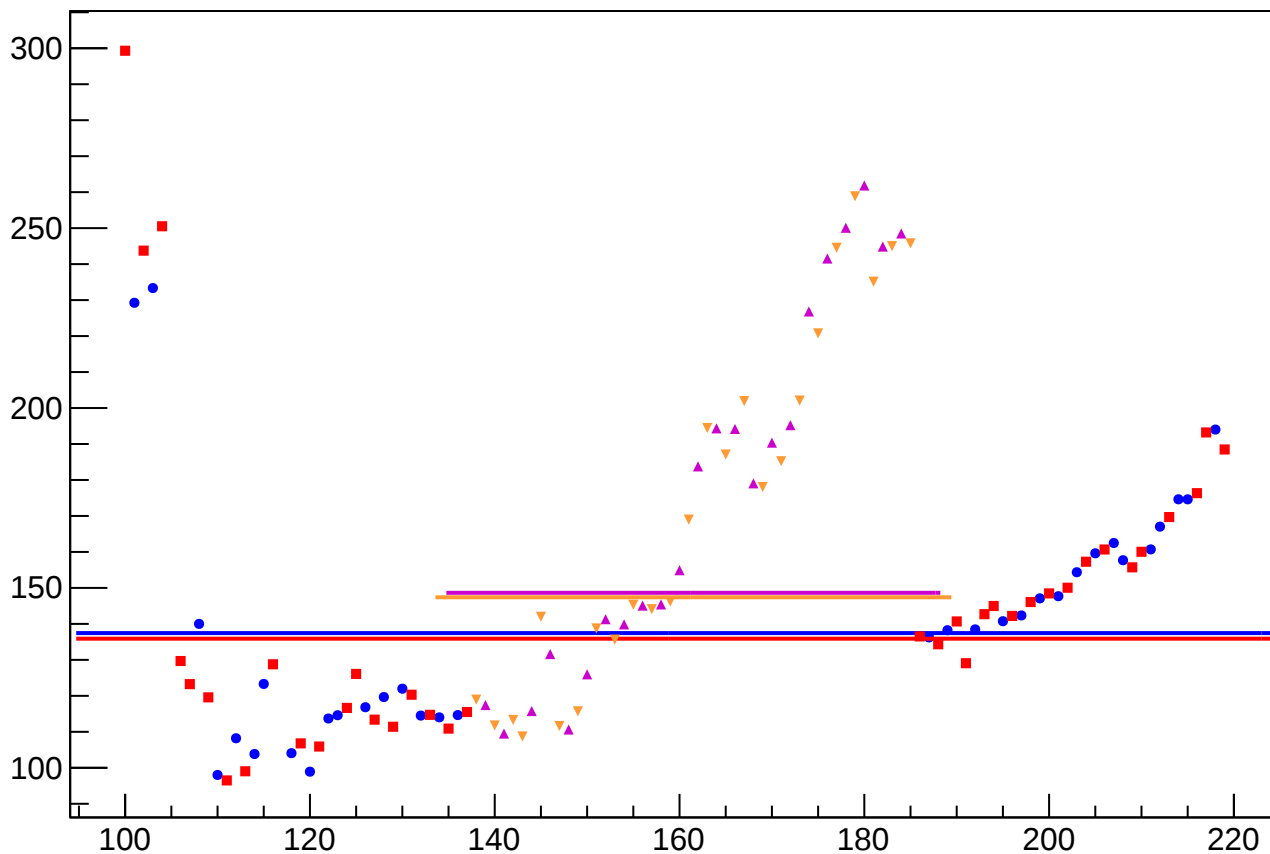
Out: 647.910+/-23.766

χ^2/NDF : 227808.5/61

All: -88.272+/-17.168

χ^2/NDF : 379668.7/117

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 137.445 $\pm$ 0.024 χ^2 /NDF: 1417862.5/32

Left Out: 147.396 $\pm$ 0.025 χ^2 /NDF:2517097.1/24

Right Out: 135.892 $\pm$ 0.022 χ^2 /NDF: 1584370.2/36

Left In: 148.642 $\pm$ 0.026 χ^2 /NDF:2415531.9/22

Left: 147.997 $\pm$ 0.018 χ^2 /NDF: 4933793.6/47

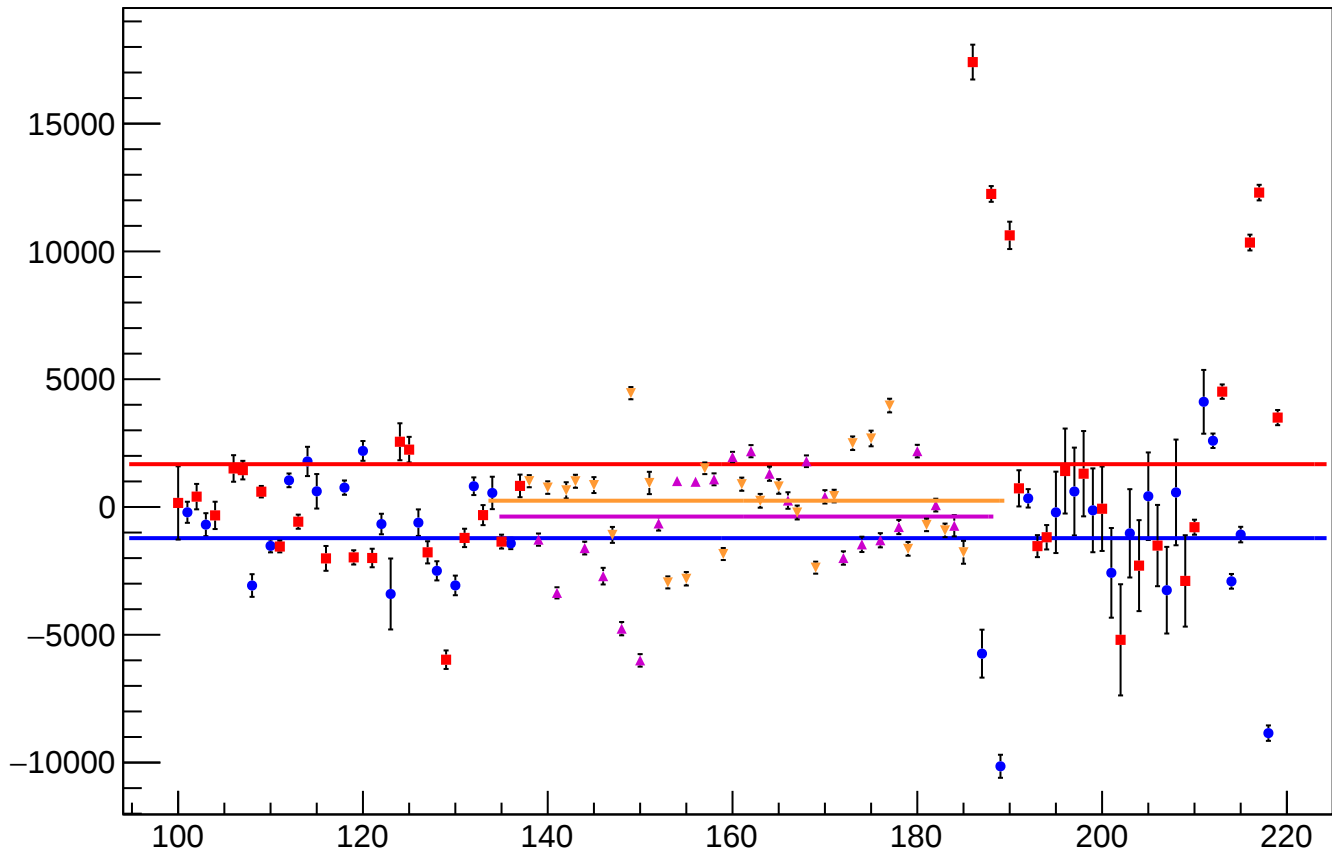
Right: 136.630 $\pm$ 0.016 χ^2 /NDF: 3004505.9/69

In: 142.443 $\pm$ 0.018 χ^2 /NDF:3933925.0/55

Out: 140.948 $\pm$ 0.017 χ^2 /NDF:4216910.8/61

All: 141.663 $\pm$ 0.012 χ^2 /NDF: 8154619.3/117

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -1219.016 ± 72.839 $\chi^2/\text{NDF}: 1654.5/32$

Left Out: 246.120 ± 53.492 $\chi^2/\text{NDF}: 1354.8/24$

Right Out: 1675.248 ± 65.274 $\chi^2/\text{NDF}: 5691.7/36$

Left In: -374.465 ± 51.892 $\chi^2/\text{NDF}: 1798.3/22$

Left: -73.589 ± 37.246 $\chi^2/\text{NDF}: 3222.4/47$

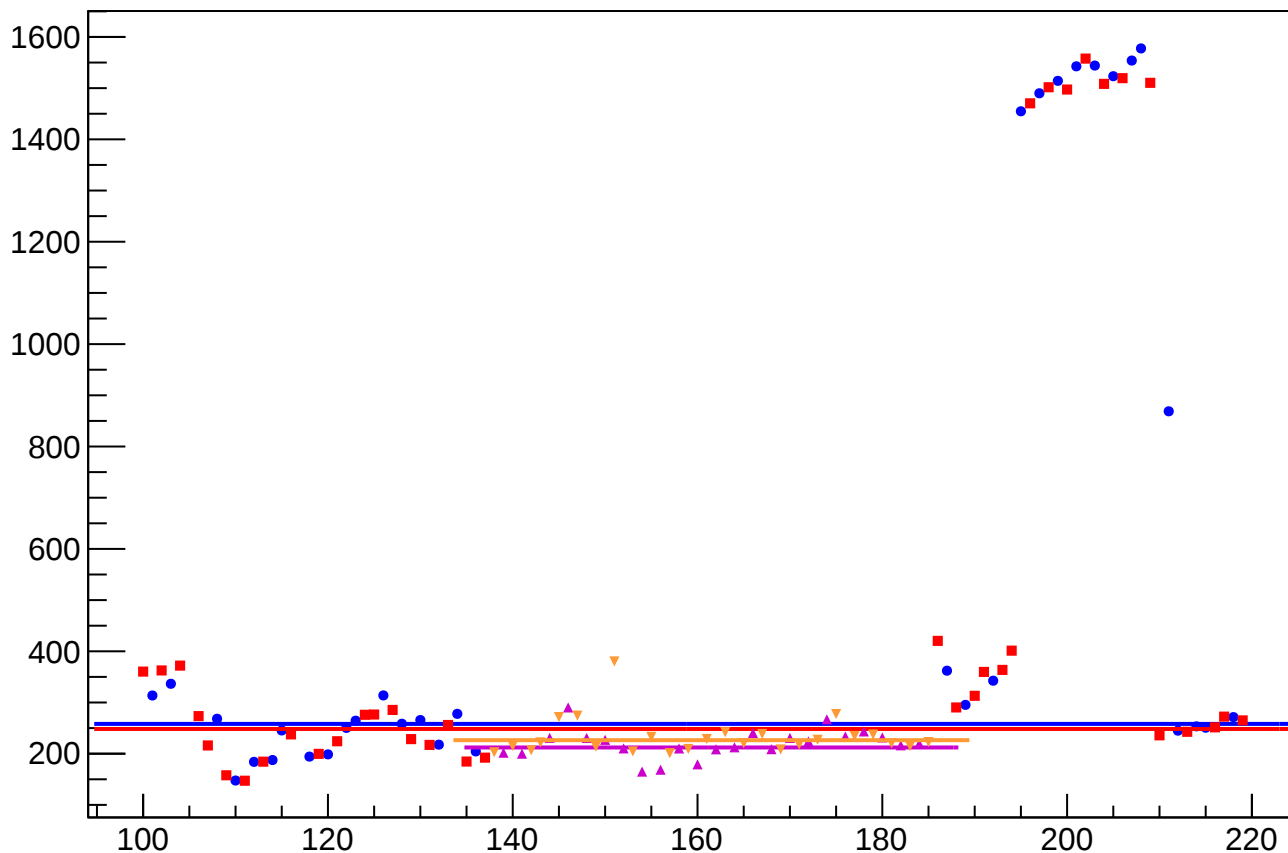
Right: 386.178 ± 48.611 $\chi^2/\text{NDF}: 8221.9/69$

In: -658.800 ± 42.264 $\chi^2/\text{NDF}: 3541.9/55$

Out: 820.288 ± 41.374 $\chi^2/\text{NDF}: 7333.3/61$

All: 96.483 ± 29.565 $\chi^2/\text{NDF}: 11500.7/117$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 258.191+/-0.052 χ^2/NDF : 10202132.3/32

Left Out: 226.376+/-0.038 χ^2/NDF : 521770.1/24

Right Out: 248.315+/-0.046 χ^2/NDF : 9293963.3/36

Left In: 212.145+/-0.037 χ^2/NDF : 591698.6/22

Left: 219.044+/-0.026 χ^2/NDF : 1186390.8/47

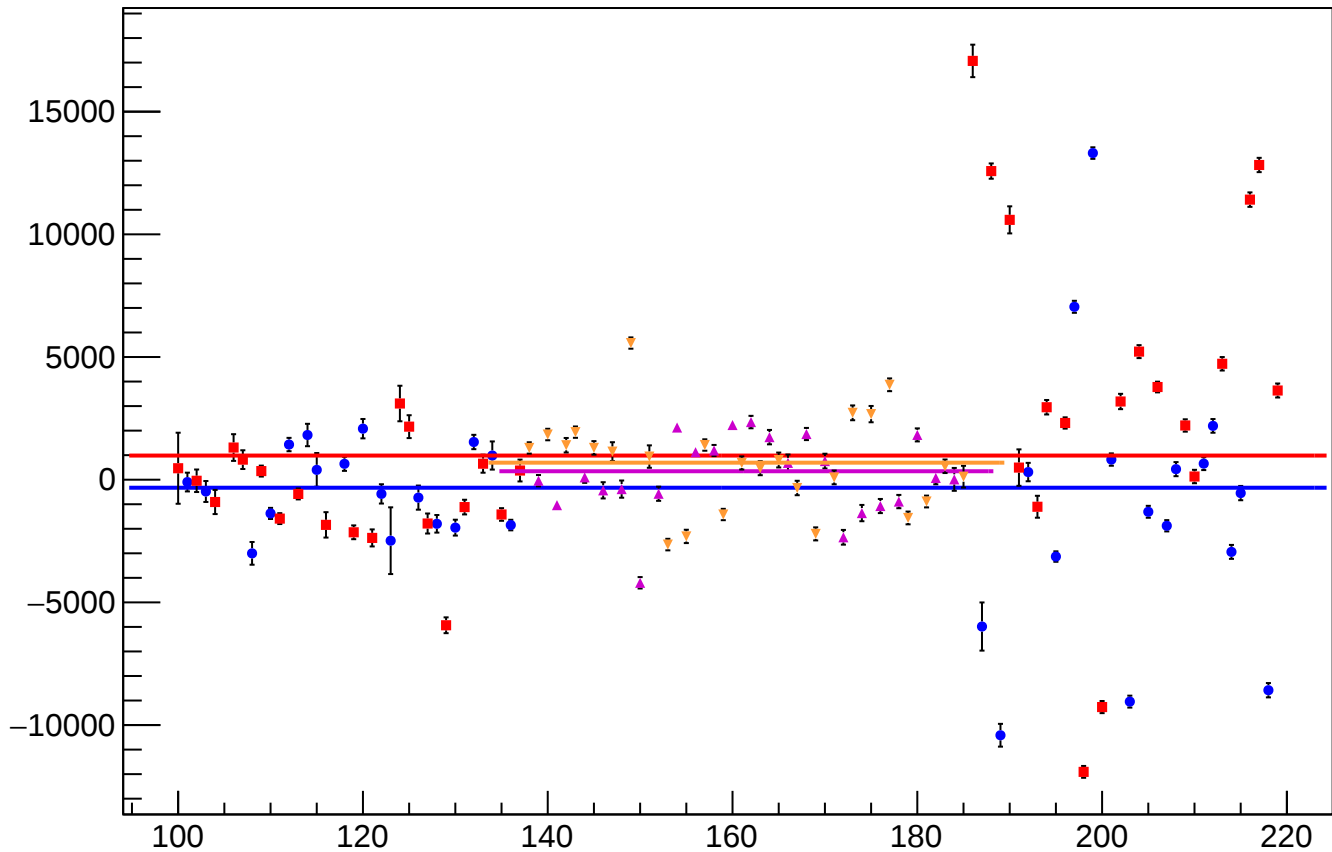
Right: 252.714+/-0.034 χ^2/NDF : 19516483.6/69

In: 227.647+/-0.030 χ^2/NDF : 11323989.4/55

Out: 235.190+/-0.029 χ^2/NDF : 9950907.1/61

All: 231.499+/-0.021 χ^2/NDF : 21307427.7/11

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -327.285 ± 53.182 $\chi^2/\text{NDF}: 7609.7/32$

Left Out: 694.326 ± 54.246 $\chi^2/\text{NDF}: 1422.1/24$

Right Out: 983.783 ± 51.584 $\chi^2/\text{NDF}: 11747.3/36$

Left In: 344.578 ± 52.954 $\chi^2/\text{NDF}: 985.0/22$

Left: 515.236 ± 37.893 $\chi^2/\text{NDF}: 2428.4/47$

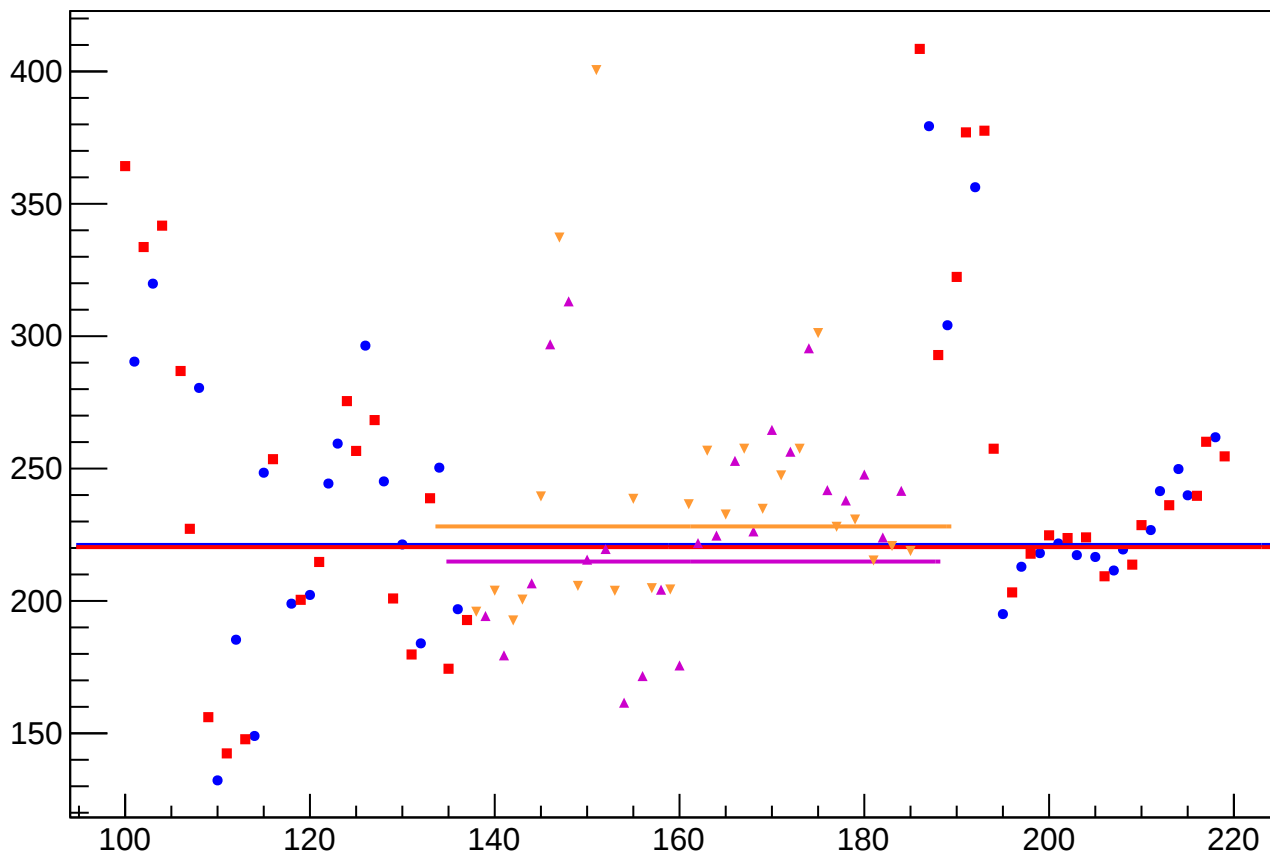
Right: 348.241 ± 37.027 $\chi^2/\text{NDF}: 19670.1/69$

In: 10.087 ± 37.524 $\chi^2/\text{NDF}: 8674.8/55$

Out: 846.332 ± 37.381 $\chi^2/\text{NDF}: 13184.3/61$

All: 429.809 ± 26.483 $\chi^2/\text{NDF}: 22108.4/117$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 221.153+/-0.038 χ^2/NDF : 1237289.1/32

Left Out: 228.144+/-0.038 χ^2/NDF : 828399.3/24

Right Out: 220.331+/-0.036 χ^2/NDF : 1918018.7/36

Left In: 214.878+/-0.037 χ^2/NDF : 1037509.6/22

Left: 221.351+/-0.027 χ^2/NDF : 1927151.4/47

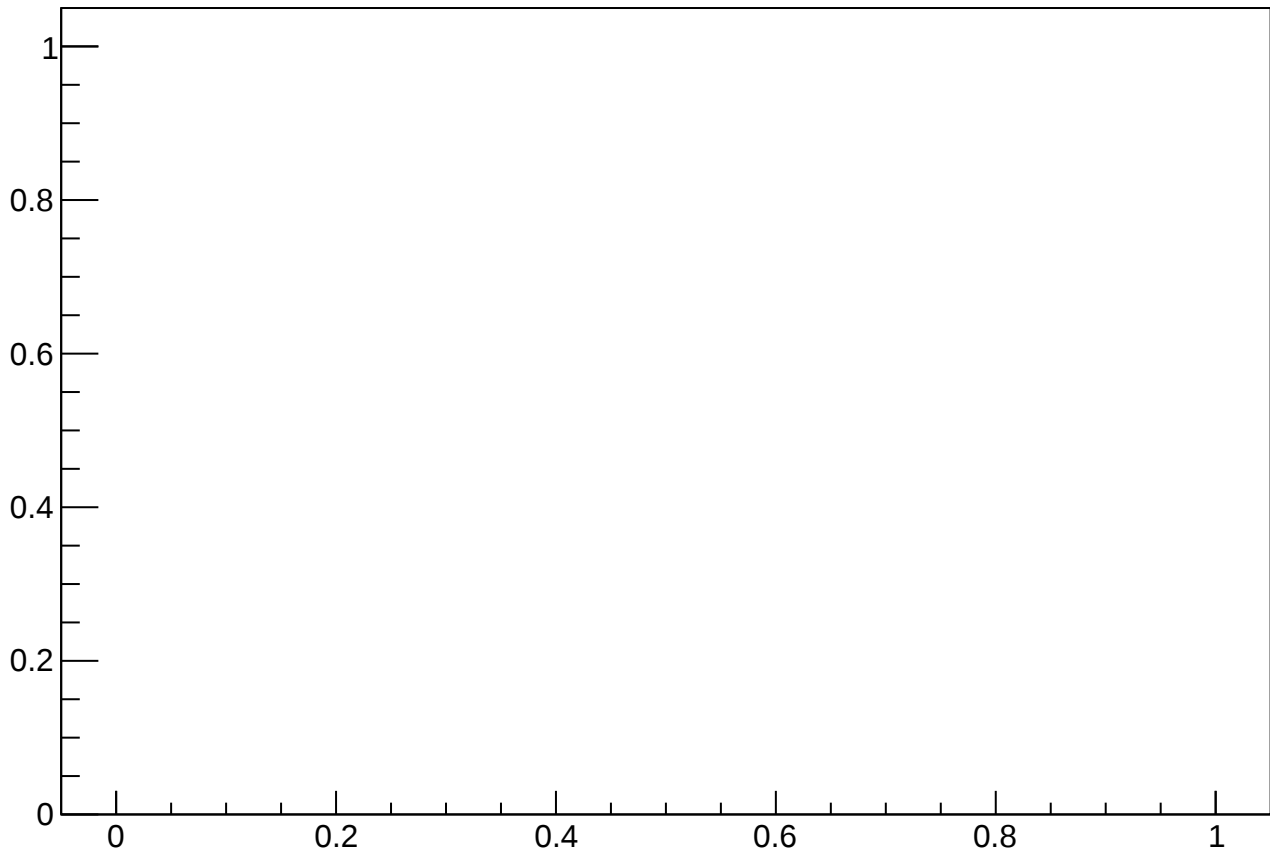
Right: 220.730+/-0.026 χ^2/NDF : 3155554.3/69

In: 218.002+/-0.027 χ^2/NDF : 2288781.5/55

Out: 224.041+/-0.026 χ^2/NDF : 2768204.7/61

All: 221.033+/-0.019 χ^2/NDF : 5082980.9/117

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

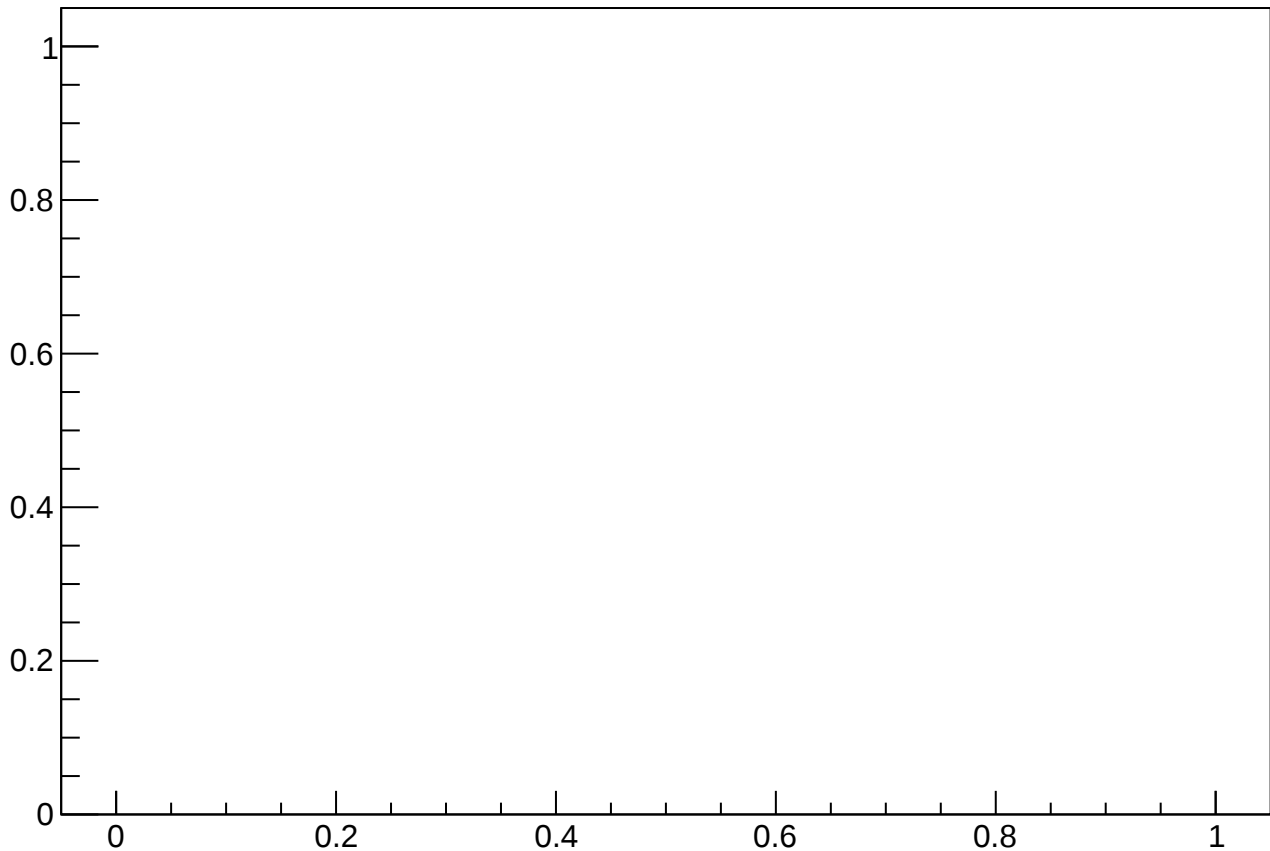
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

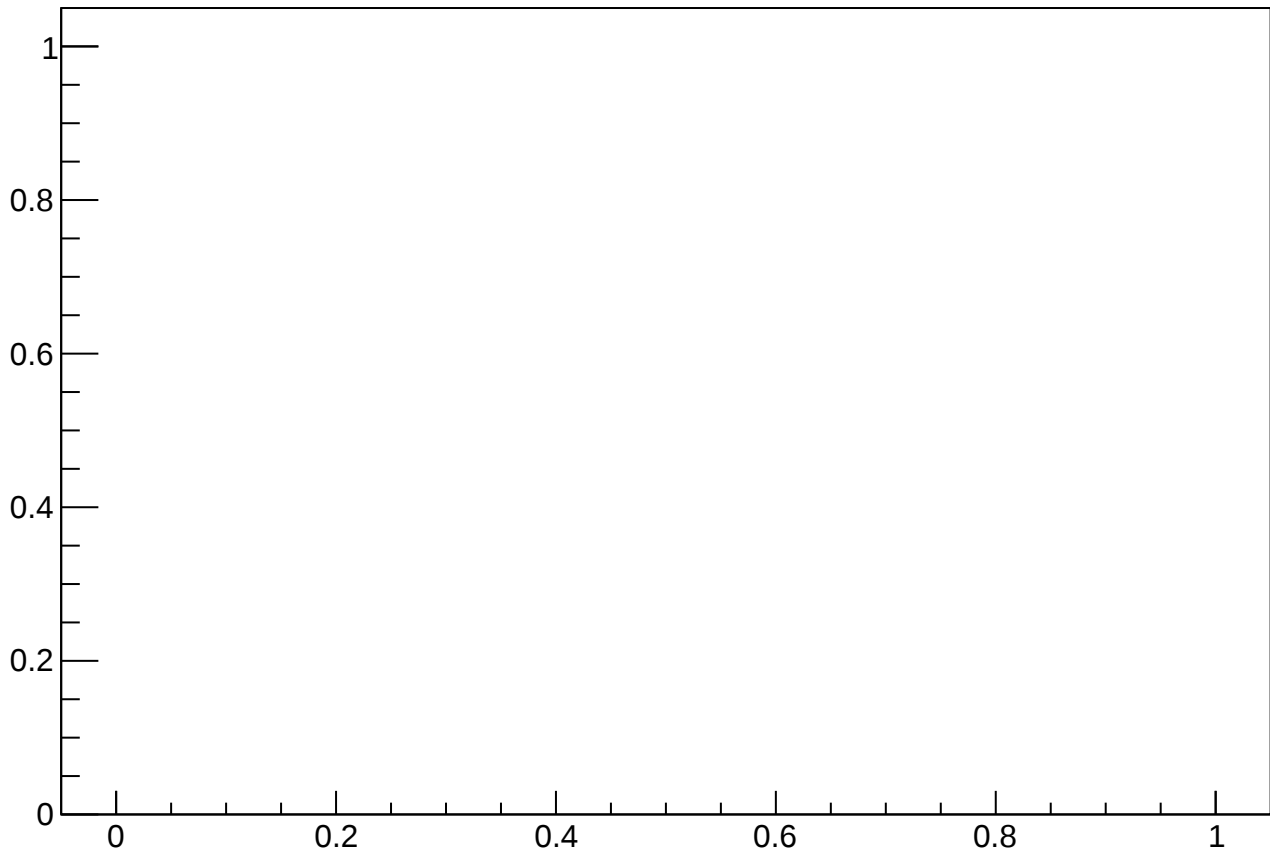
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

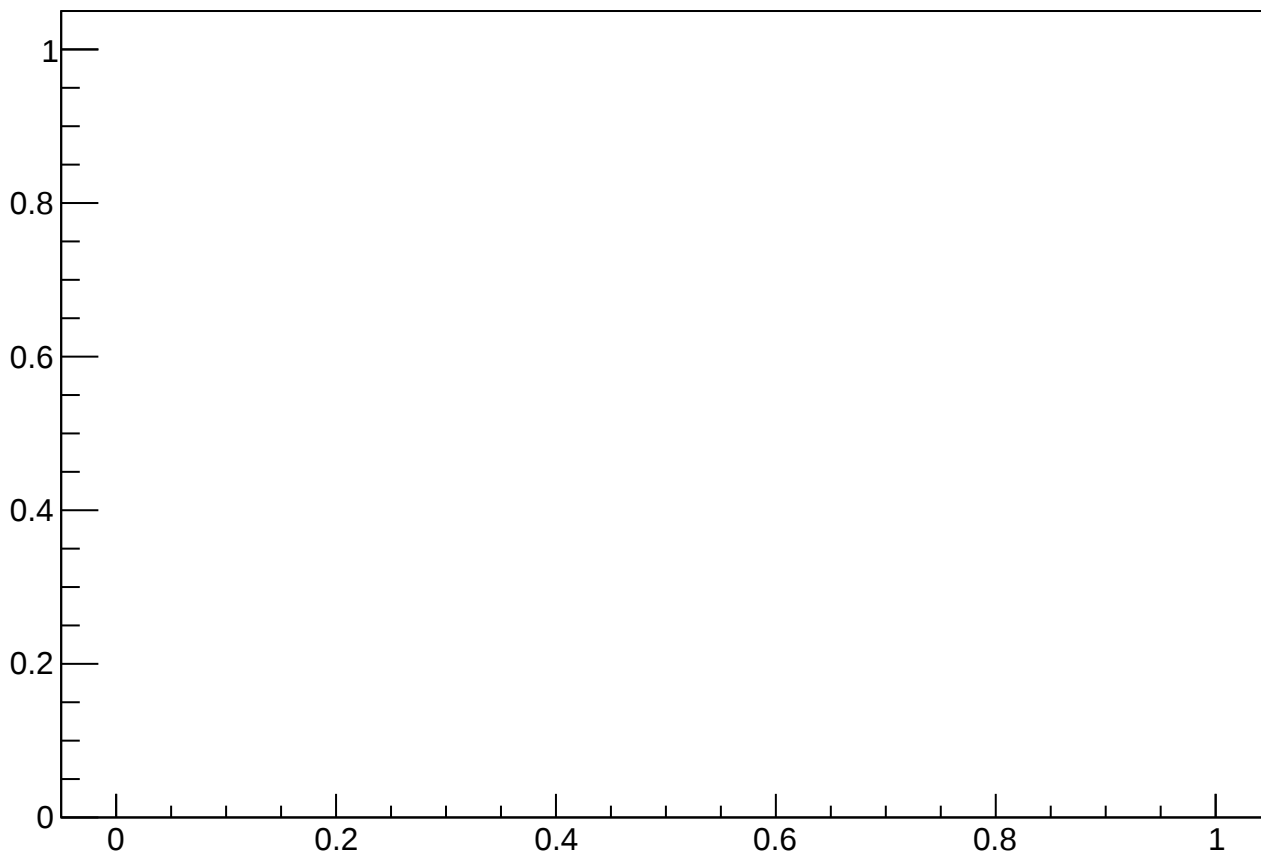
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

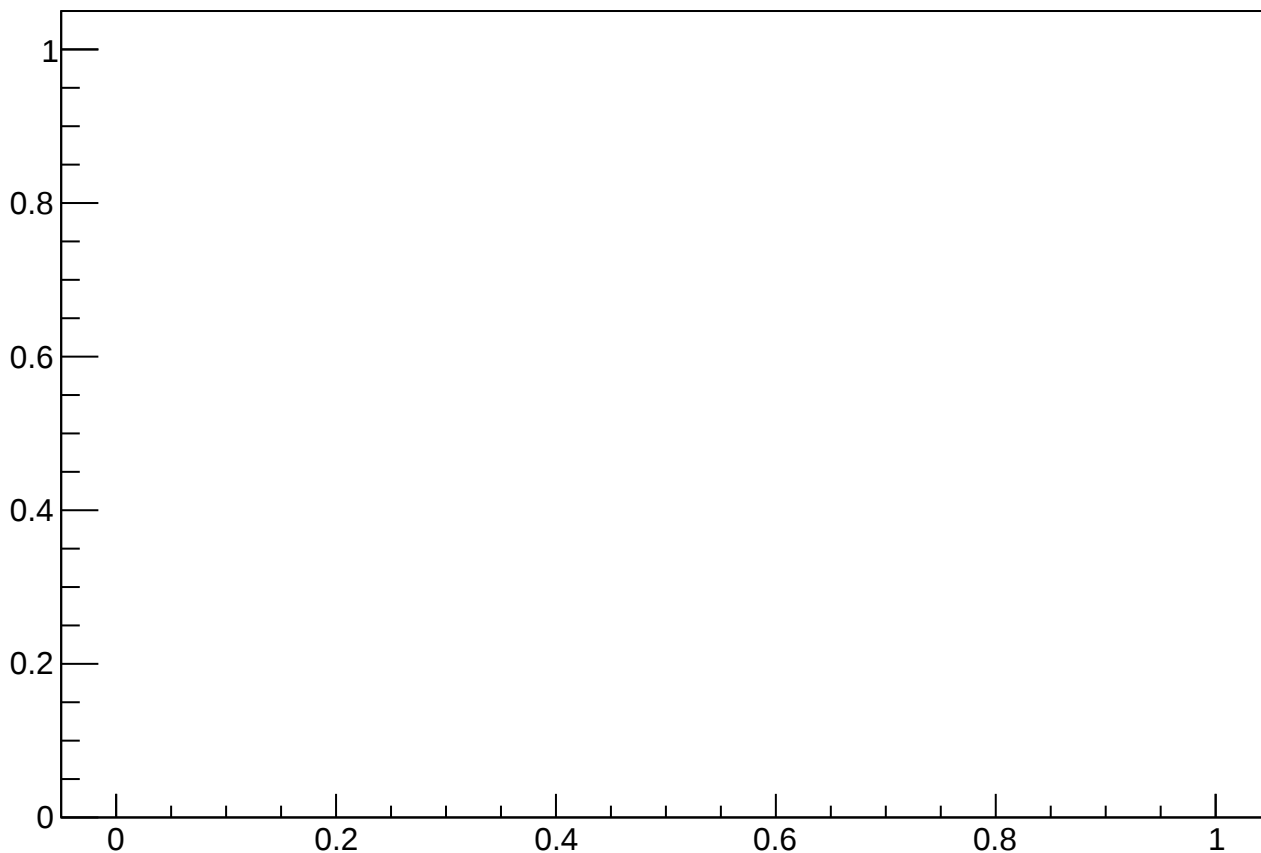
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

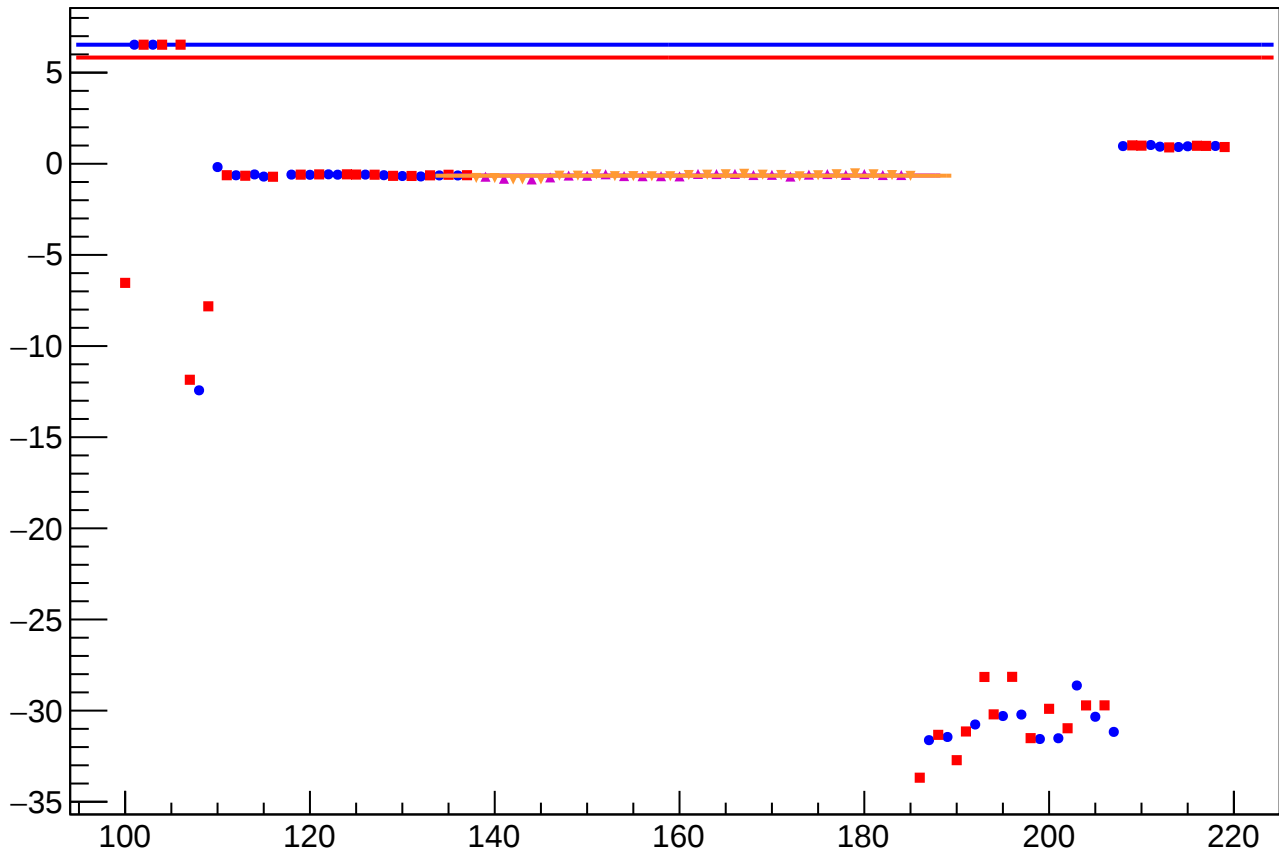
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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 : 138717637246.6/32

Left Out: -0.654+/-0.000 χ^2/NDF : 179069954.8/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755970602025205.9/36

Left In: -0.643+/-0.000 χ^2/NDF : 123743747.1/22

Left: -0.649+/-0.000 χ^2/NDF : 303800919.5/47

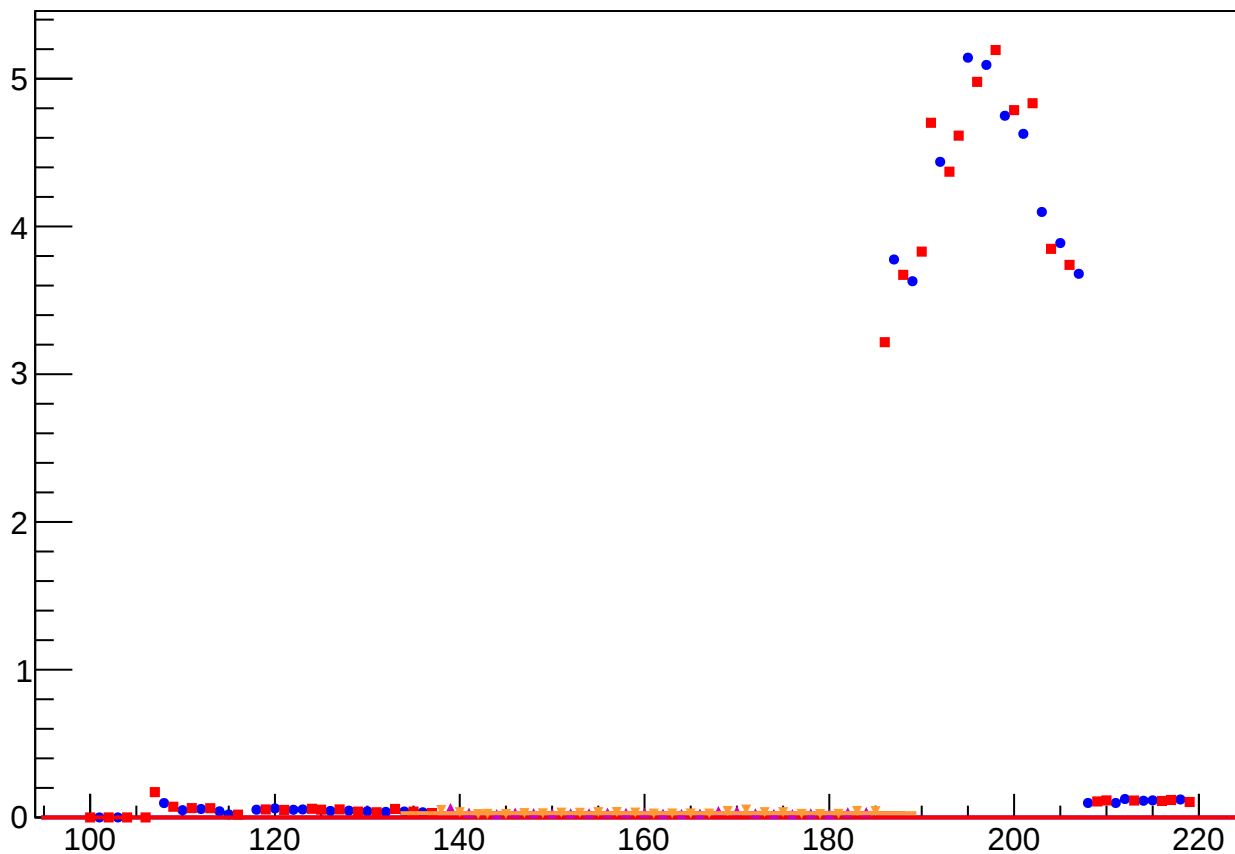
Right: 6.155+/-0.000 χ^2/NDF : 776113026962352.2/47

In: 6.530+/-0.000 χ^2/NDF : 972830331452.3/55

Out: 5.826+/-0.000 χ^2/NDF : 756681614677402.2/60

All: 6.153+/-0.000 χ^2/NDF : 77764644891905.0/104

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31217438.5/32

Left Out: 0.029+/-0.000 χ^2/NDF :1484308.2/24

Right Out: 0.000+/-0.000 χ^2/NDF : 33485831.2/36

Left In: 0.029+/-0.000 χ^2/NDF :1206492.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2691219.2/47

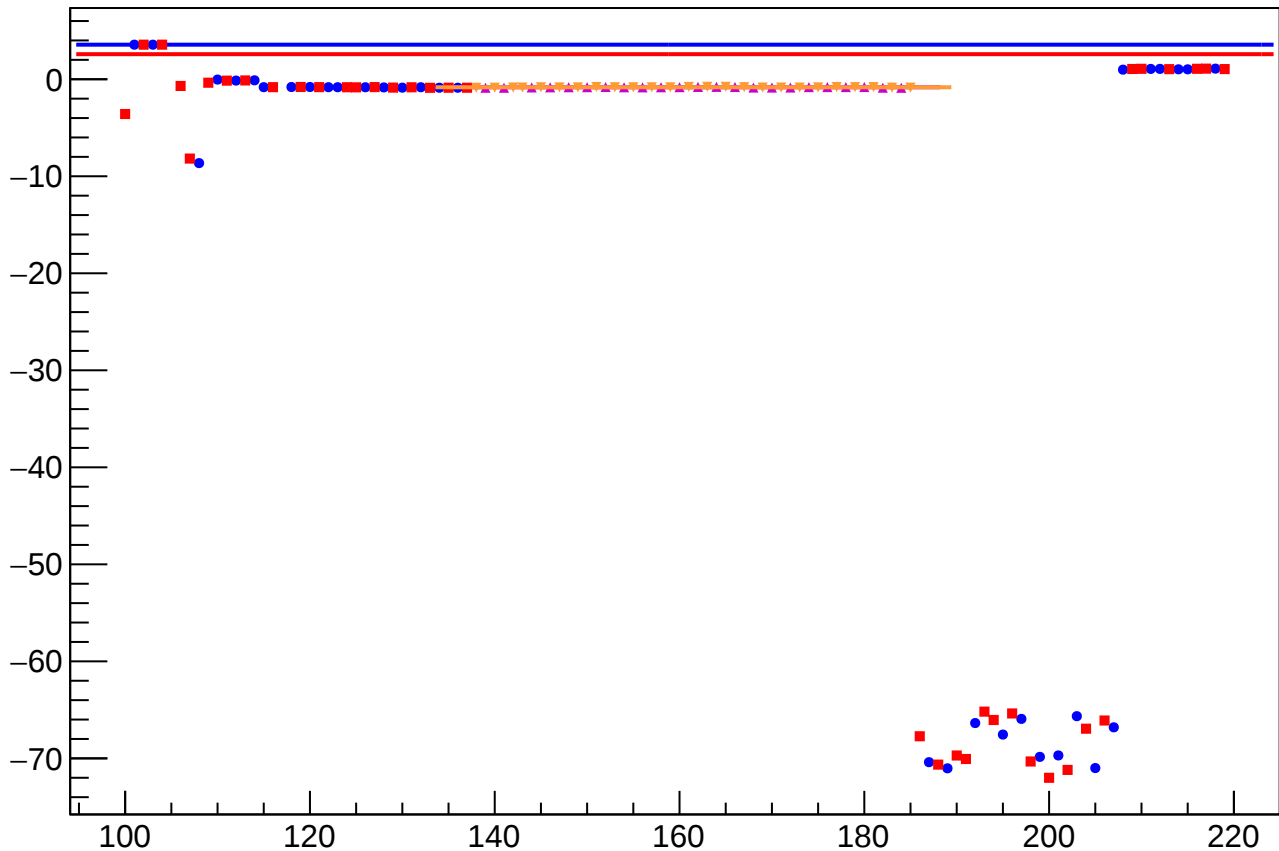
Right: 0.000+/-0.000 χ^2/NDF : 64703535.3/69

In: 0.000+/-0.000 χ^2/NDF :59394285.8/55

Out: 0.000+/-0.000 χ^2/NDF :63452987.5/61

All: 0.000+/-0.000 χ^2/NDF : 122847722.3/117

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 581903884366.8/32

Left Out: -0.827+/-0.000 χ^2/NDF : 170052639.9/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253565465949878.0/36

Left In: -0.827+/-0.000 χ^2/NDF : 174130375.4/22

Left: -0.827+/-0.000 χ^2/NDF : 344237775.5/47

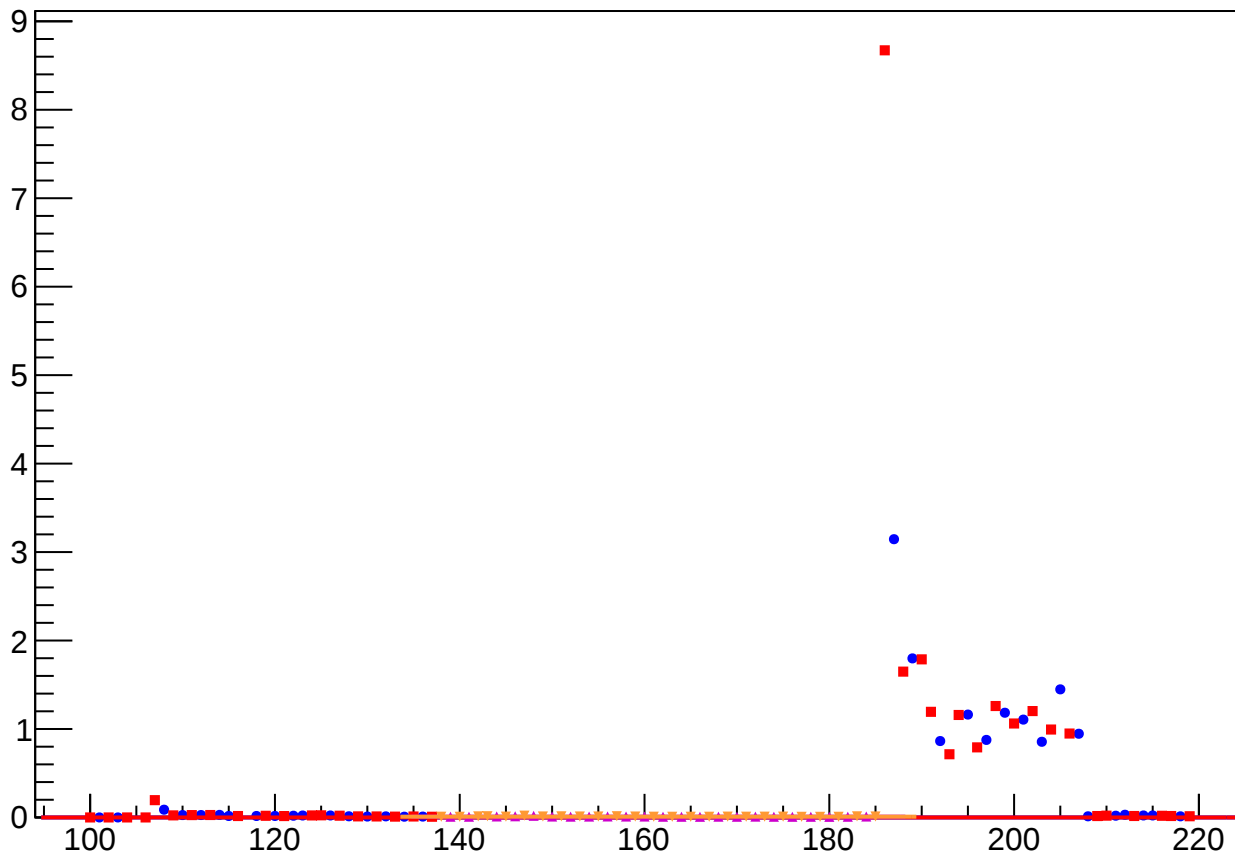
Right: 3.040+/-0.000 χ^2/NDF : 1382414524045743.1

In: 3.560+/-0.000 χ^2/NDF : 4262262971617.4/55

Out: 2.581+/-0.000 χ^2/NDF : 1255796261406068.2

All: 3.037+/-0.000 χ^2/NDF : 13881387878911.1

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 28445311.6/32

Left Out: 0.009+/-0.000 χ^2/NDF : 1455379.3/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31074840.5/36

Left In: 0.009+/-0.000 χ^2/NDF : 1042123.1/22

Left: 0.009+/-0.000 χ^2/NDF : 2503441.1/47

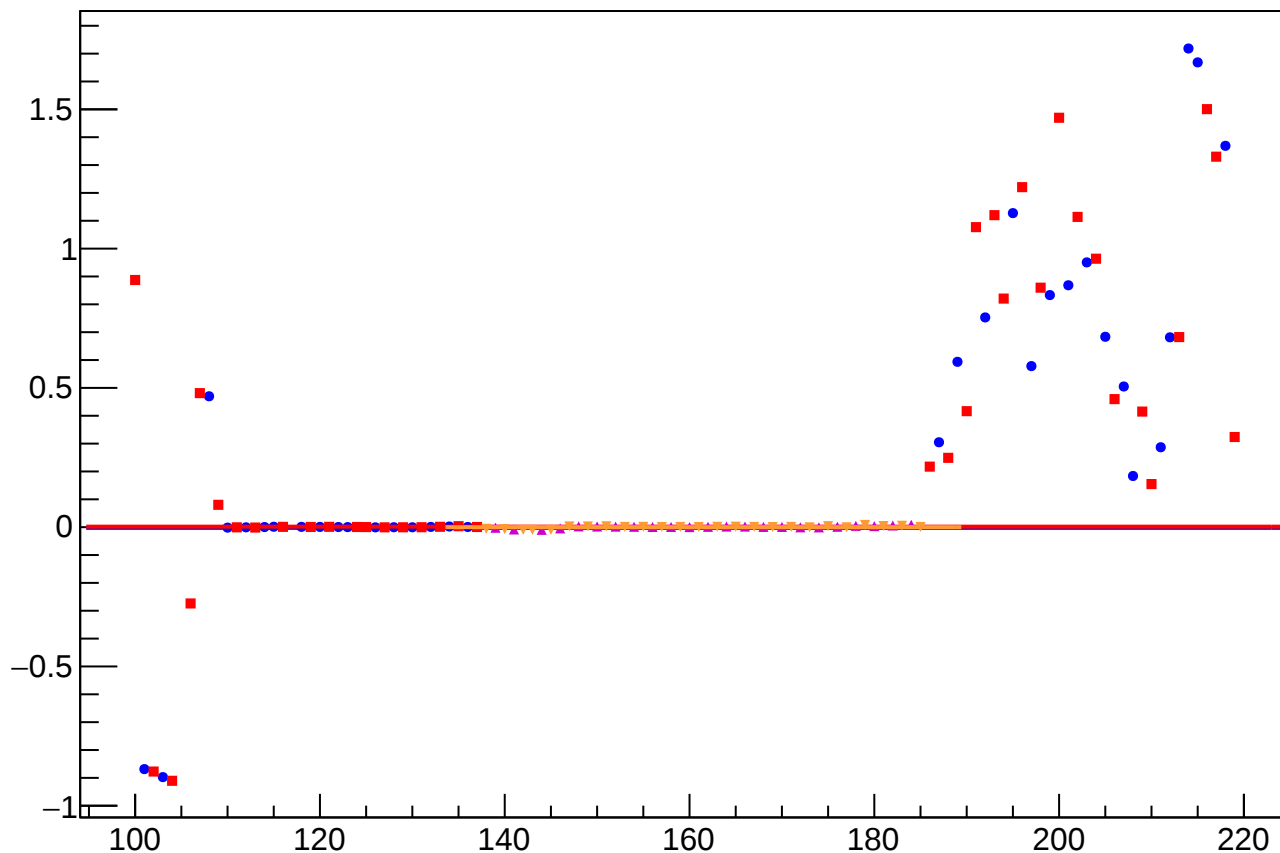
Right: 0.000+/-0.000 χ^2/NDF : 59520394.2/69

In: 0.000+/-0.000 χ^2/NDF : 58237169.4/55

Out: 0.000+/-0.000 χ^2/NDF : 62587151.4/61

All: 0.000+/-0.000 χ^2/NDF : 120825044.8/117

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9797444120.5/32

Left: 0.000 ± 0.000

χ^2/NDF : 254489625.0/47

Left Out: -0.000 ± 0.000

χ^2/NDF : 151559332.0/24

Right: -0.000 ± 0.000

χ^2/NDF : 12855822808.9/69

Right Out: 0.002 ± 0.000

χ^2/NDF : 3044231540.2/36

In: -0.000 ± 0.000

χ^2/NDF : 9910347745.8/55

Out: 0.000 ± 0.000

χ^2/NDF : 3200471226.7/61

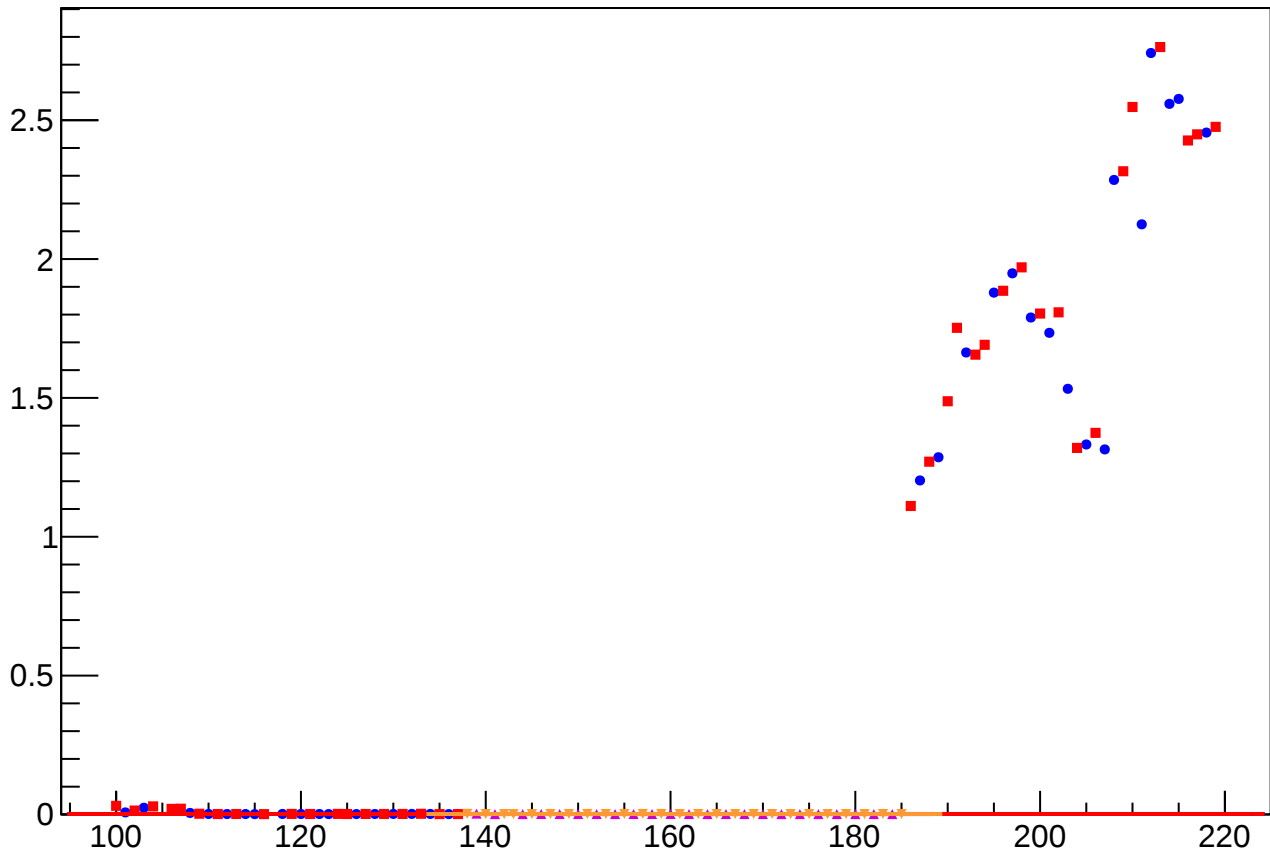
Left In: 0.001 ± 0.000

χ^2/NDF : 101468517.6/22

All: 0.000 ± 0.000

χ^2/NDF : 13111190414.6/1

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 24261477.6/32

Left Out: 0.001+/-0.000 χ^2/NDF :539040.4/24

Right Out: 0.002+/-0.000 χ^2/NDF : 27157461.8/36

Left In: 0.001+/-0.000 χ^2/NDF :659543.3/22

Left: 0.001+/-0.000 χ^2/NDF : 1201689.9/47

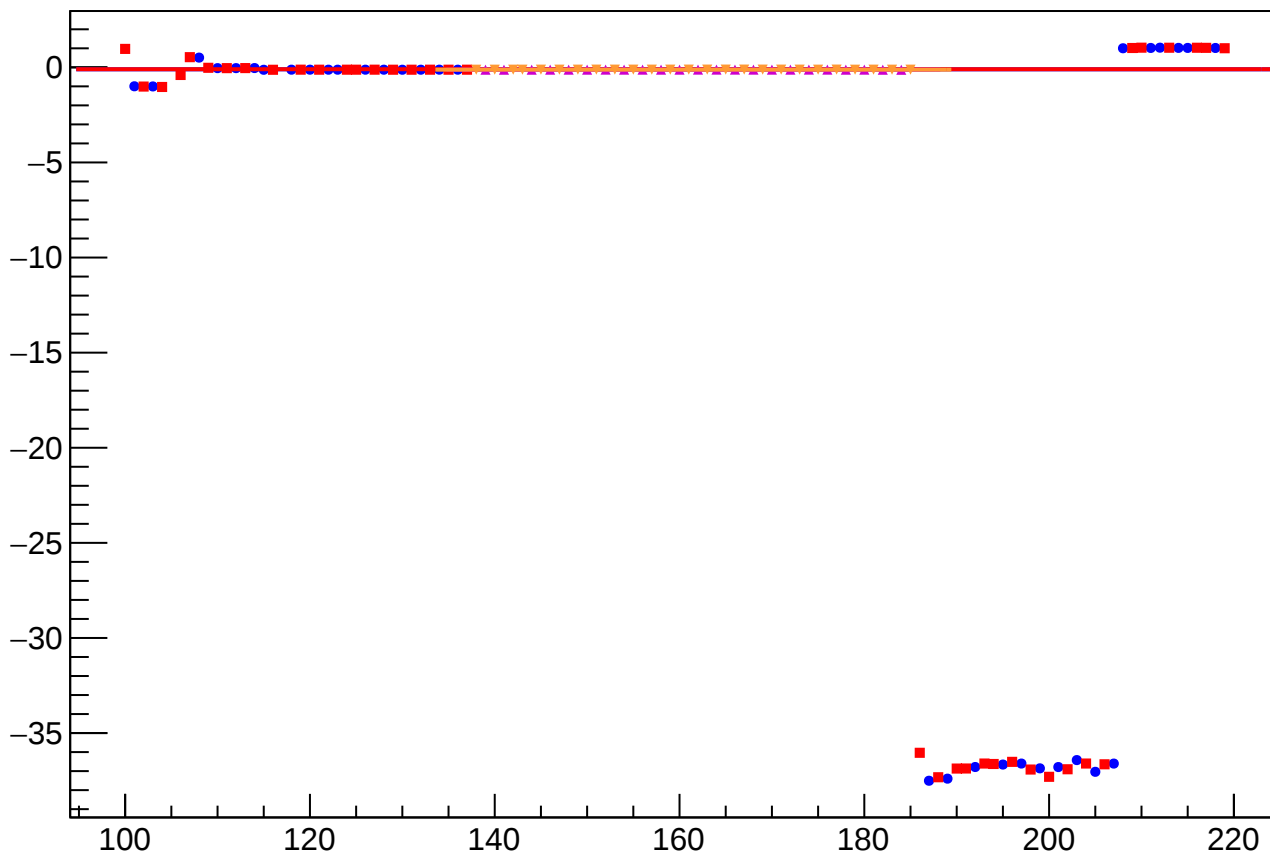
Right: 0.002+/-0.000 χ^2/NDF : 51426931.5/69

In: 0.002+/-0.000 χ^2/NDF :24974732.8/55

Out: 0.002+/-0.000 χ^2/NDF :27834524.1/61

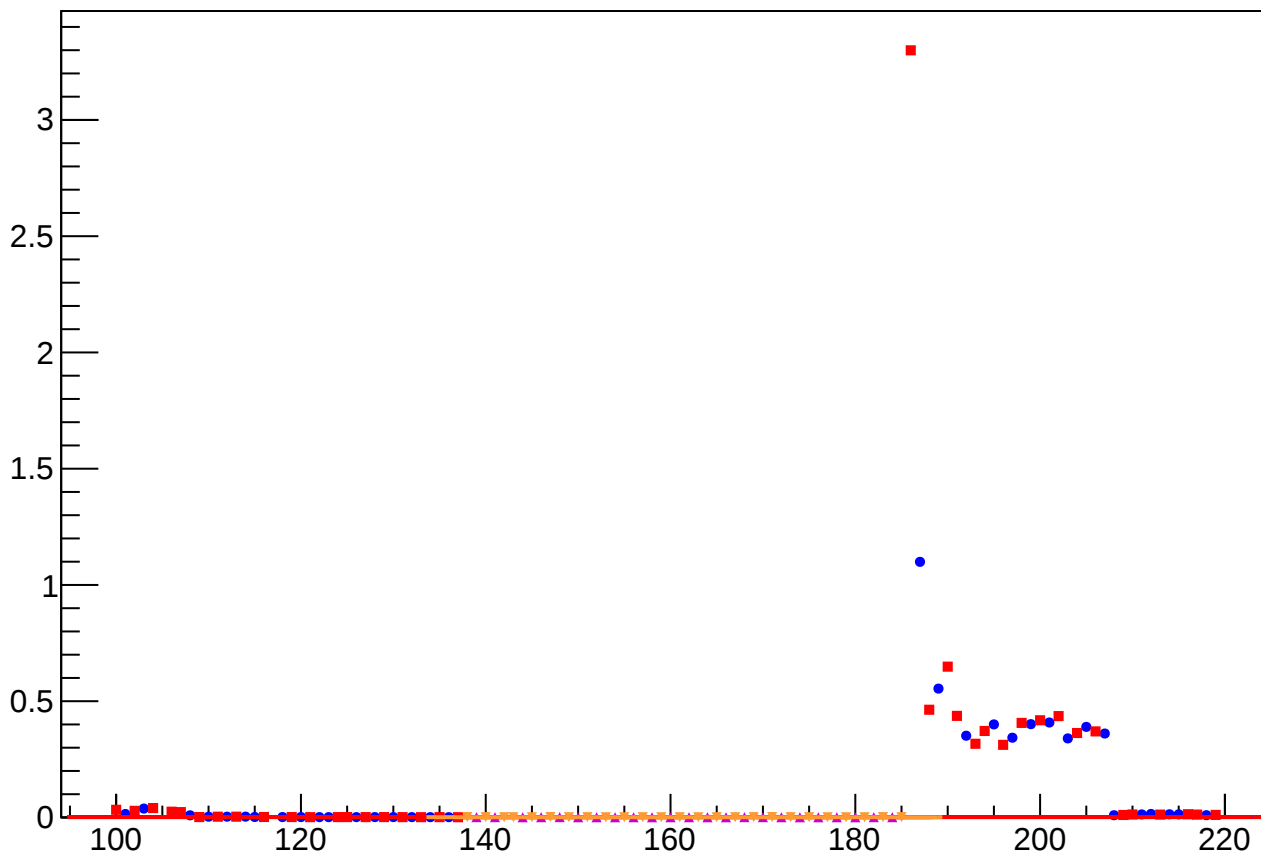
All: 0.002+/-0.000 χ^2/NDF : 52809889.4/117

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.104+/-0.000	χ^2/NDF : 101942570413.8/32	Left: -0.121+/-0.000	χ^2/NDF : 111705307.2/47
Left Out: -0.121+/-0.000	χ^2/NDF : 58329026.8/24	Right: -0.101+/-0.000	χ^2/NDF : 208448307884.8/69
Right Out: -0.099+/-0.000	χ^2/NDF : 106476744741.9/36	In: -0.119+/-0.000	χ^2/NDF : 102476414193.1/55
Left In: -0.121+/-0.000	χ^2/NDF : 53134323.3/22	Out: -0.119+/-0.000	χ^2/NDF : 107407401939.6/61
		All: -0.119+/-0.000	χ^2/NDF : 209884652076.1

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 22300223.4/32

Left Out: 0.001+/-0.000 χ^2/NDF :1362851.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 24889374.9/36

Left In: 0.001+/-0.000 χ^2/NDF :972588.0/22

Left: 0.001+/-0.000 χ^2/NDF : 2336494.2/47

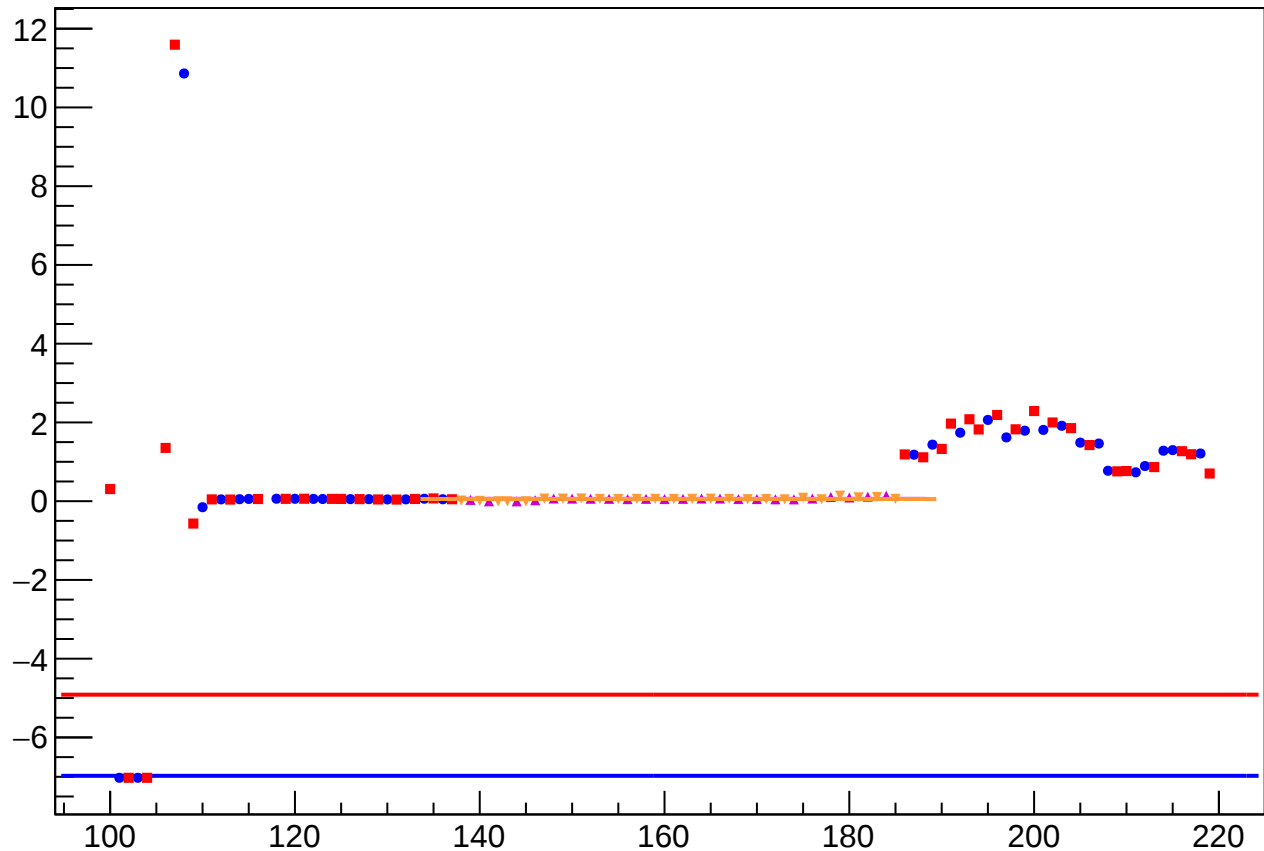
Right: 0.002+/-0.000 χ^2/NDF : 47189618.4/69

In: 0.001+/-0.000 χ^2/NDF :25135631.4/55

Out: 0.001+/-0.000 χ^2/NDF :28195920.9/61

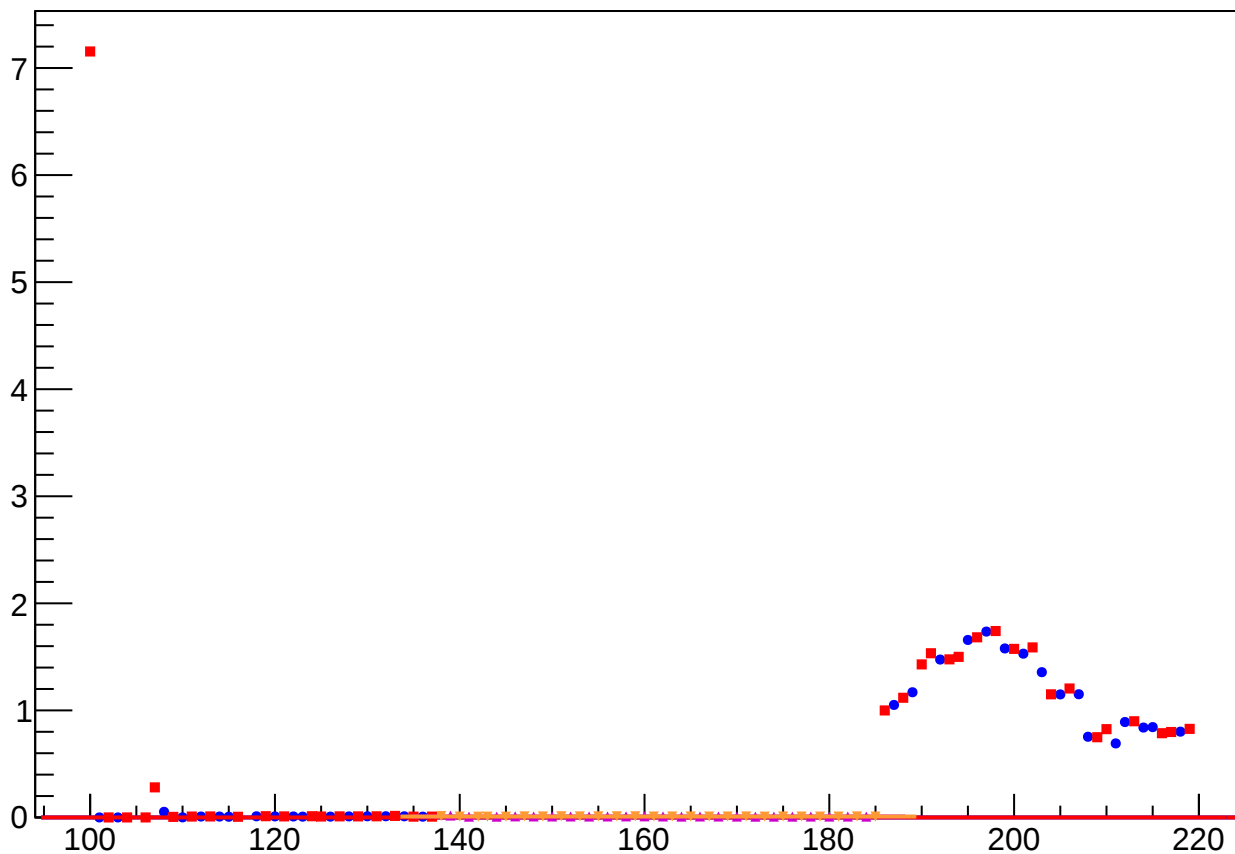
All: 0.001+/-0.000 χ^2/NDF : 53333704.2/117

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8763147945404.3/32$ 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 $\chi^2/\text{NDF}: 430304265406871.9$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365348939813044.2/36$ In: -6.925 ± 0.000 $\chi^2/\text{NDF}: 17605668488409.5/55$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178713649.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370175623392893.9$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435822203955$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 30591140.9/32

Left Out: 0.009+/-0.000 χ^2/NDF : 513737.0/24

Right Out: 0.000+/-0.000 χ^2/NDF : 32924838.8/36

Left In: 0.009+/-0.000 χ^2/NDF : 636557.9/22

Left: 0.009+/-0.000 χ^2/NDF : 1154784.9/47

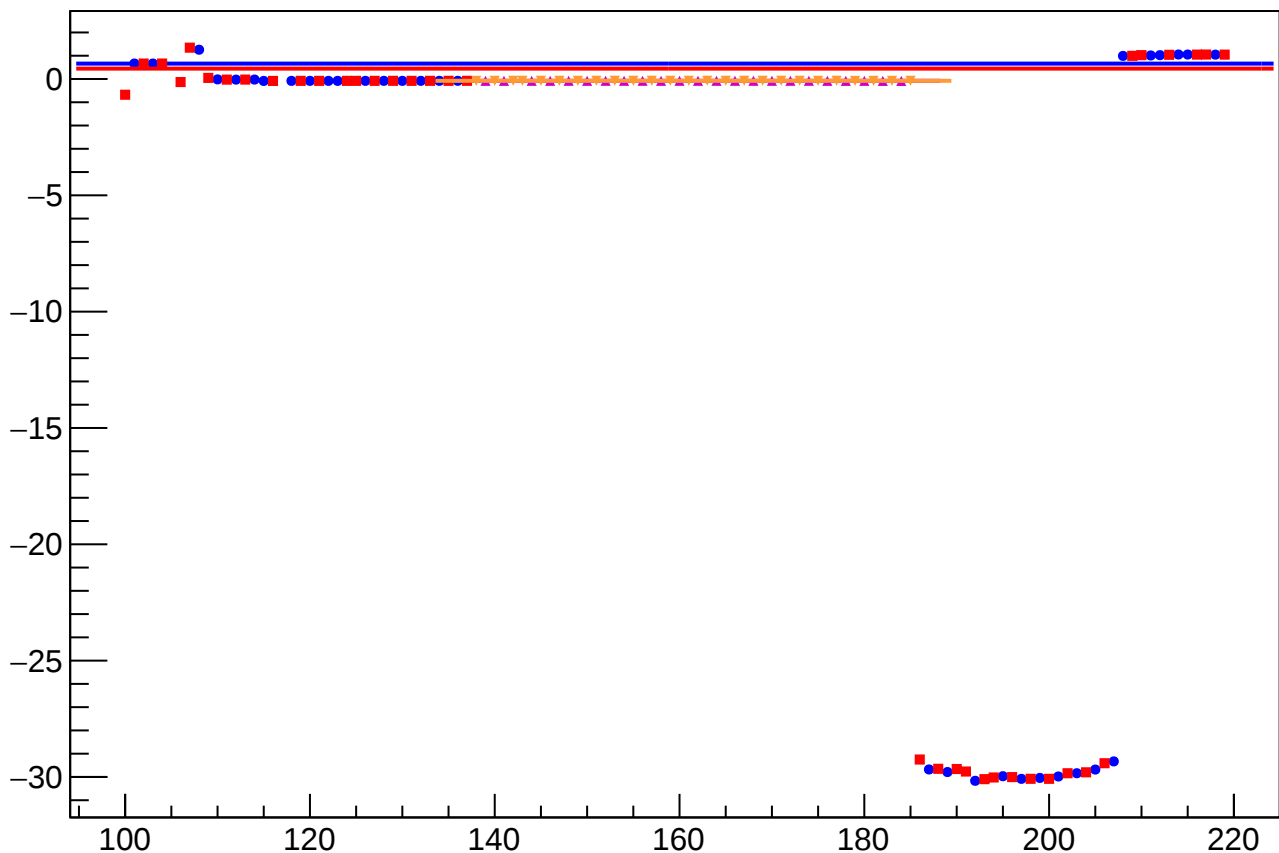
Right: 0.000+/-0.000 χ^2/NDF : 63516289.7/69

In: 0.000+/-0.000 χ^2/NDF : 58226256.4/55

Out: 0.000+/-0.000 χ^2/NDF : 61951313.9/61

All: 0.000+/-0.000 χ^2/NDF : 120178064.7/117

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000 χ^2/NDF : 5649334062454.2/32

Left Out: -0.078+/-0.000 χ^2/NDF : 156525648.0/24

Right Out: 0.446+/-0.000 χ^2/NDF : 405486762014241.5/36

Left In: -0.077+/-0.000 χ^2/NDF : 111221084.5/22

Left: -0.078+/-0.000 χ^2/NDF : 267788024.6/47

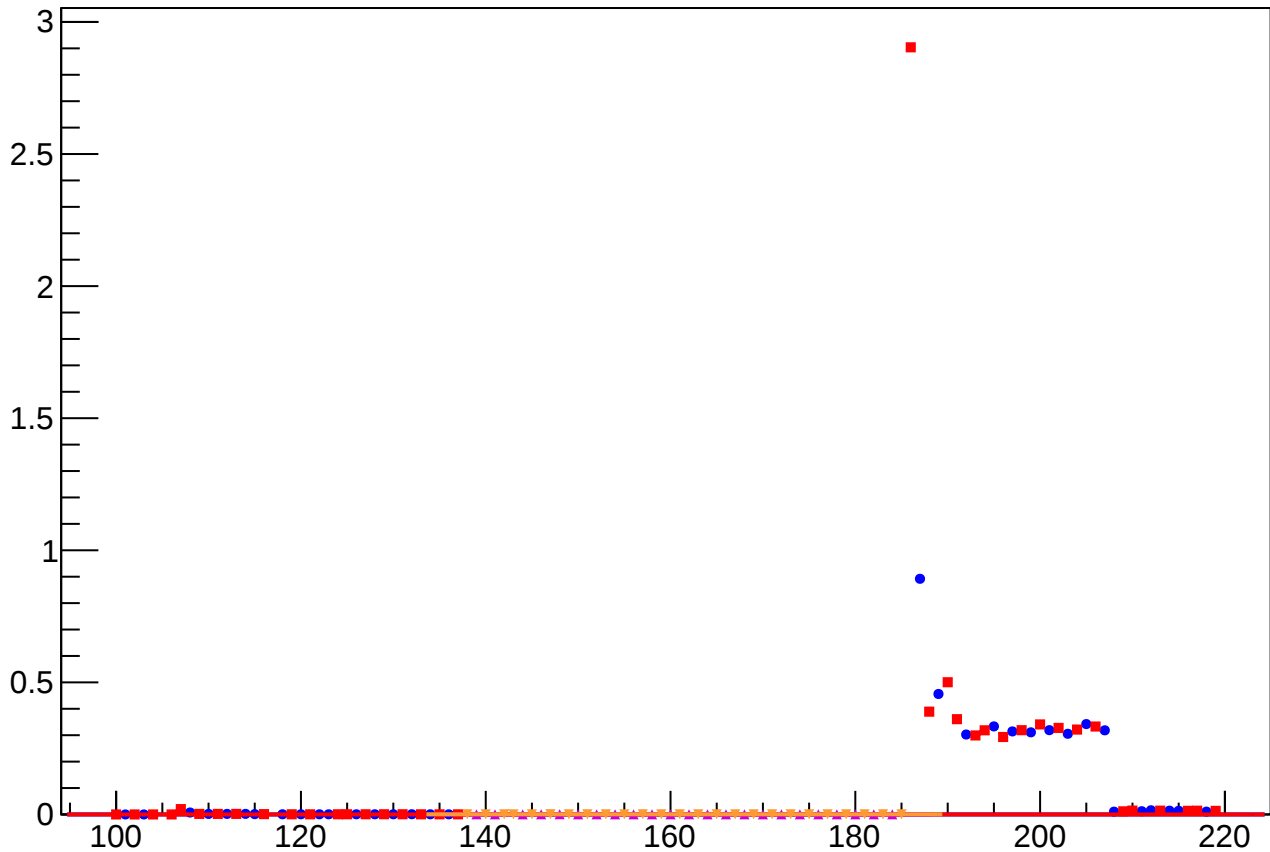
Right: 0.549+/-0.000 χ^2/NDF : 474065242453081.0/47

In: 0.647+/-0.000 χ^2/NDF : 33909555845471.0/55

Out: 0.436+/-0.000 χ^2/NDF : 420681605281664.0/55

All: 0.537+/-0.000 χ^2/NDF : 51611579395070.0/104

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31809977.4/32

Left Out: 0.001+/-0.000 χ^2/NDF : 466355.6/24

Right Out: 0.000+/-0.000 χ^2/NDF : 33438861.5/36

Left In: 0.001+/-0.000 χ^2/NDF : 355587.5/22

Left: 0.001+/-0.000 χ^2/NDF : 822908.9/47

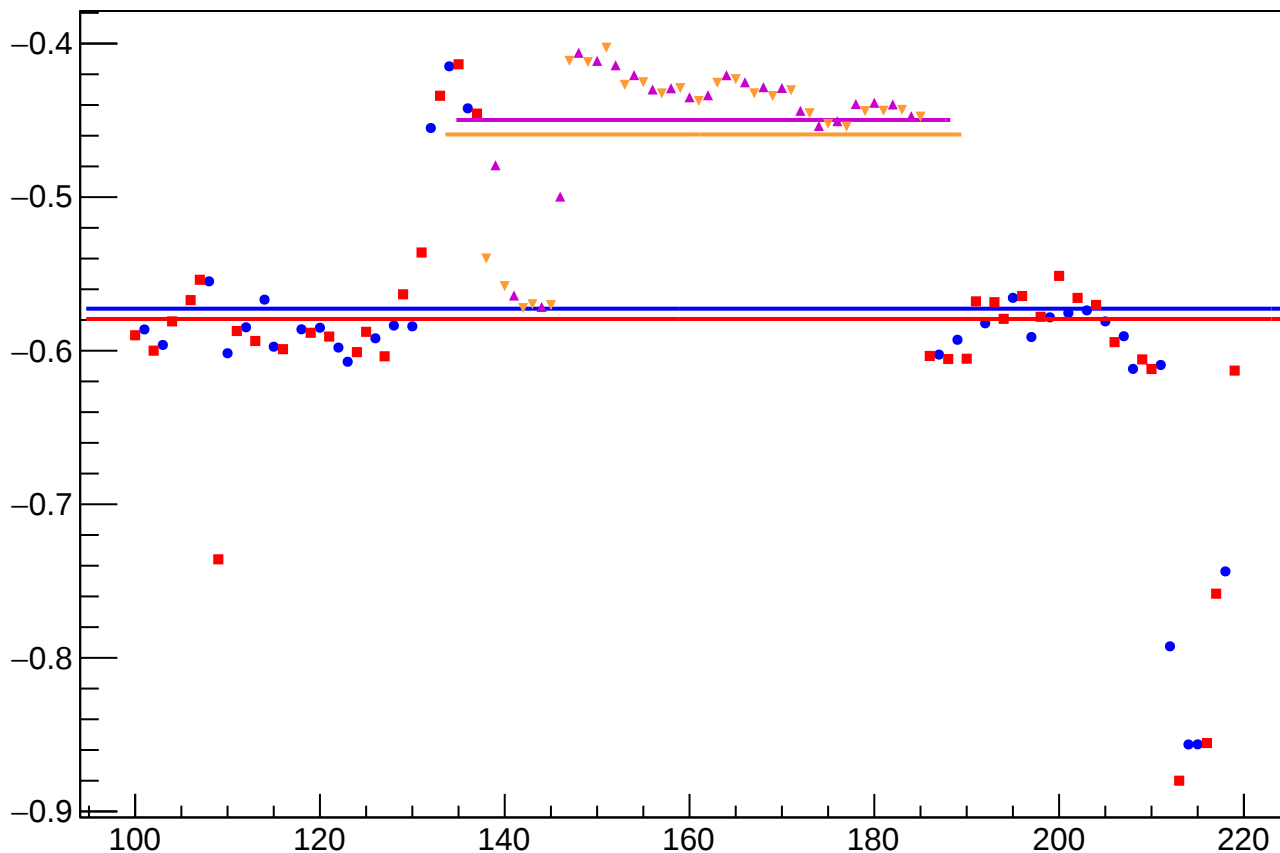
Right: 0.000+/-0.000 χ^2/NDF : 65248849.8/69

In: 0.000+/-0.000 χ^2/NDF : 62774078.5/55

Out: 0.000+/-0.000 χ^2/NDF : 66139388.1/61

All: 0.000+/-0.000 χ^2/NDF : 128913897.2/117

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.573+/-0.000 χ^2/NDF : 114533730.0/32

Left Out: -0.459+/-0.000 χ^2/NDF : 113808762.6/24

Right Out: -0.579+/-0.000 χ^2/NDF : 119915621.4/36

Left In: -0.450+/-0.000 χ^2/NDF : 76151485.7/22

Left: -0.455+/-0.000 χ^2/NDF : 191688333.2/47

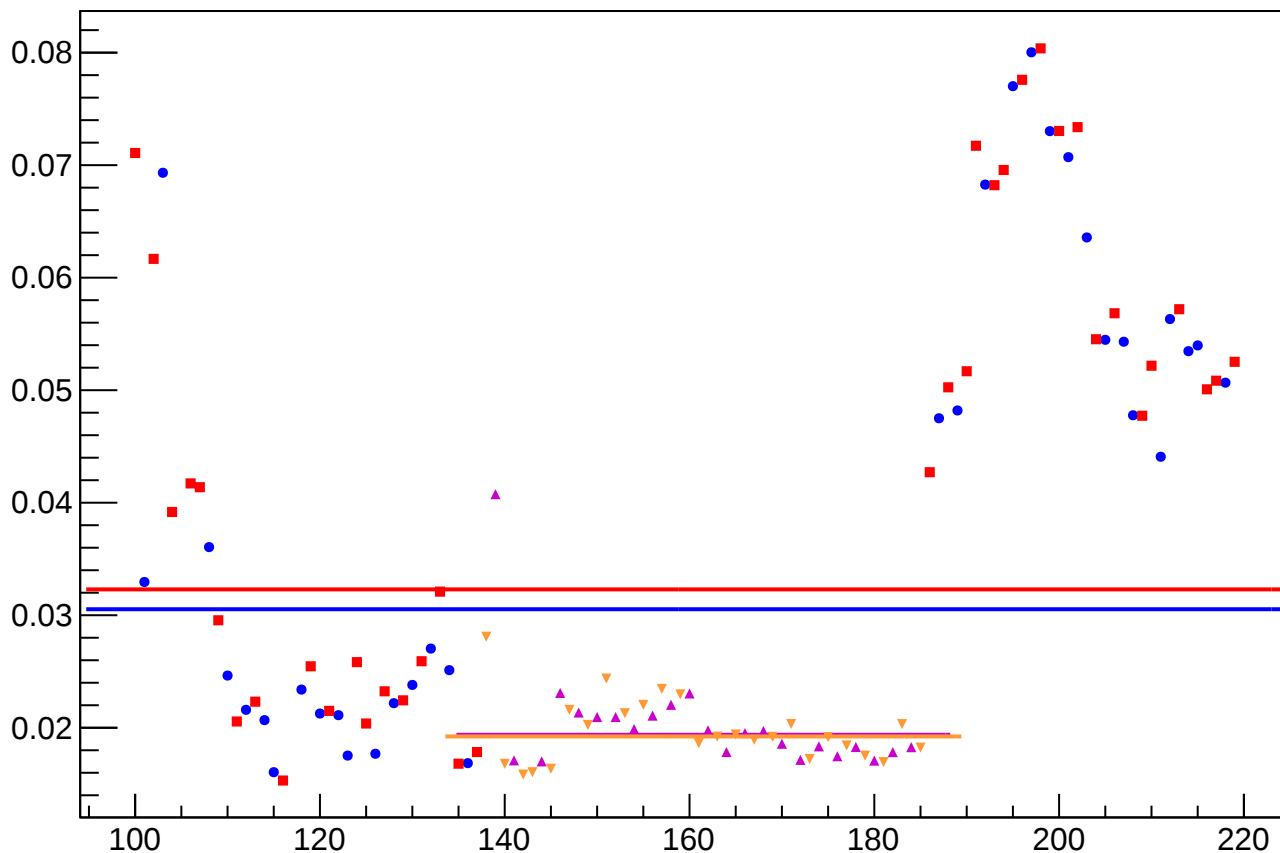
Right: -0.576+/-0.000 χ^2/NDF : 234755314.4/69

In: -0.483+/-0.000 χ^2/NDF : 342562661.0/55

Out: -0.489+/-0.000 χ^2/NDF : 379453690.6/61

All: -0.486+/-0.000 χ^2/NDF : 723136543.3/11

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 7766562.9/32

Left Out: 0.019+/-0.000 χ^2/NDF : 501253.7/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7835570.5/36

Left In: 0.019+/-0.000 χ^2/NDF : 656155.9/22

Left: 0.019+/-0.000 χ^2/NDF : 1158298.6/47

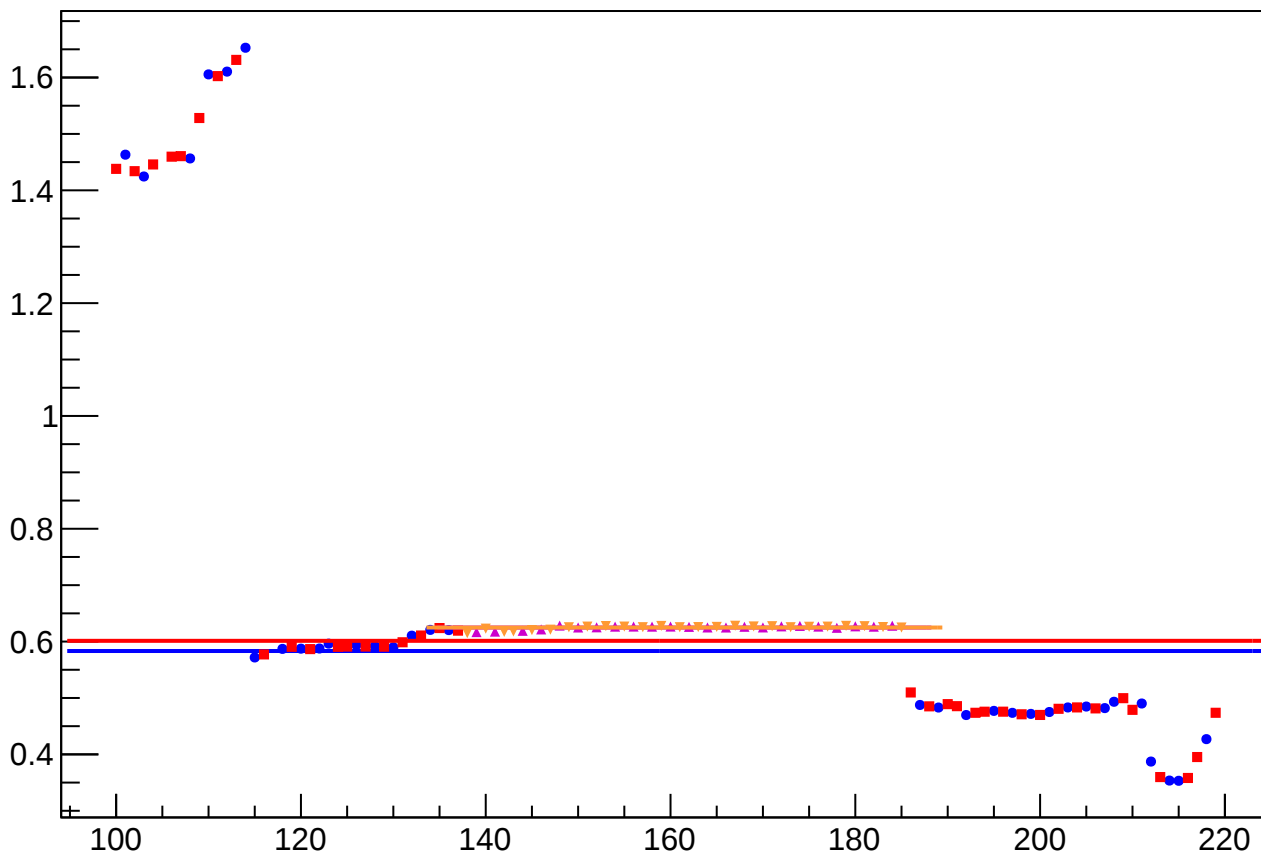
Right: 0.031+/-0.000 χ^2/NDF : 15644436.1/69

In: 0.022+/-0.000 χ^2/NDF : 10926394.9/55

Out: 0.023+/-0.000 χ^2/NDF : 11786116.9/61

All: 0.022+/-0.000 χ^2/NDF : 22713362.9/117

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.583+/-0.000 χ^2/NDF : 5587932763.3/32

Left Out: 0.625+/-0.000 χ^2/NDF :1442225.6/24

Right Out: 0.601+/-0.000 χ^2/NDF : 6628936062.7/36

Left In: 0.625+/-0.000 χ^2/NDF :1135039.4/22

Left: 0.625+/-0.000 χ^2/NDF : 2577573.3/47

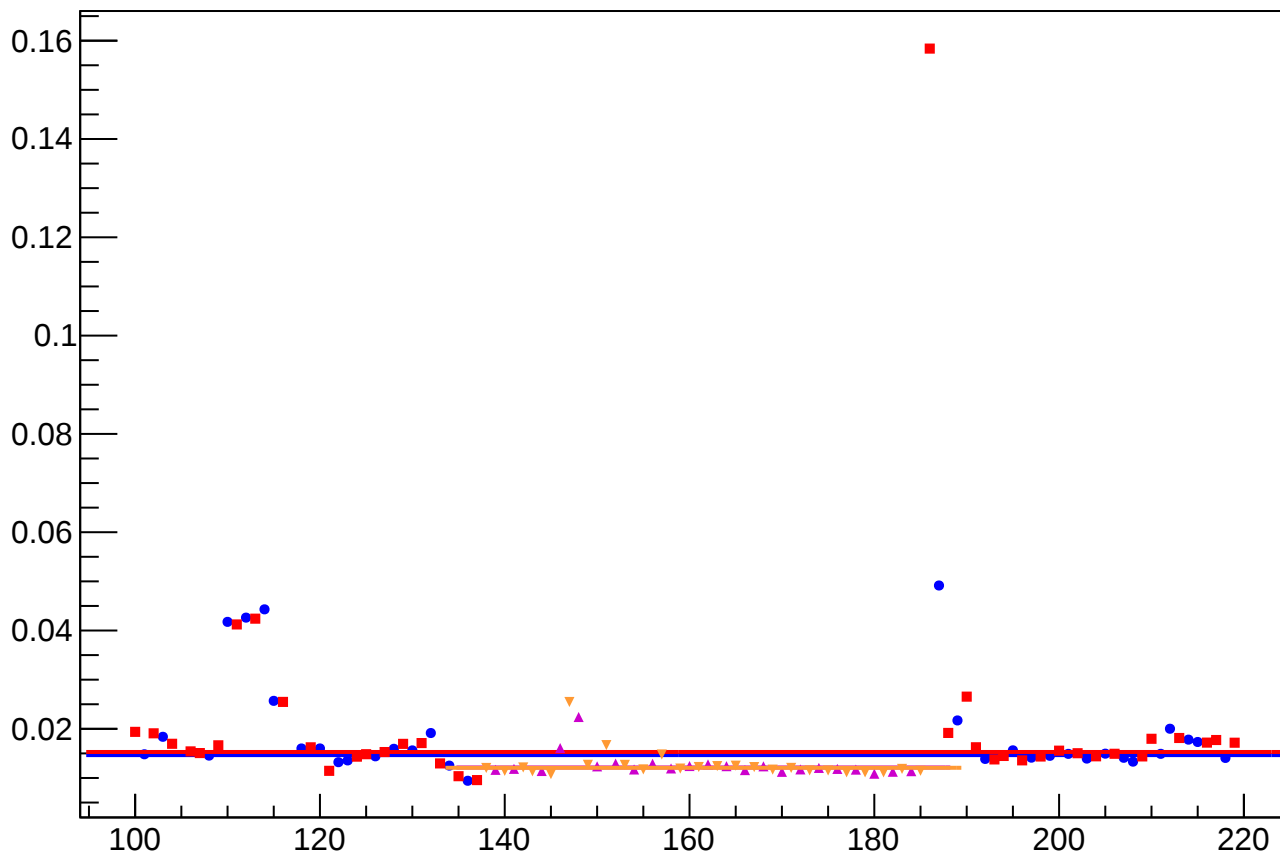
Right: 0.592+/-0.000 χ^2/NDF : 12229171381.3/69

In: 0.608+/-0.000 χ^2/NDF :5668093012.1/55

Out: 0.616+/-0.000 χ^2/NDF :6656138652.6/61

All: 0.612+/-0.000 χ^2/NDF : 12329984060.5/122

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1851566.3/32

Left Out: 0.012+/-0.000 χ^2/NDF : 657433.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2228304.9/36

Left In: 0.012+/-0.000 χ^2/NDF : 488249.4/22

Left: 0.012+/-0.000 χ^2/NDF : 1146144.5/47

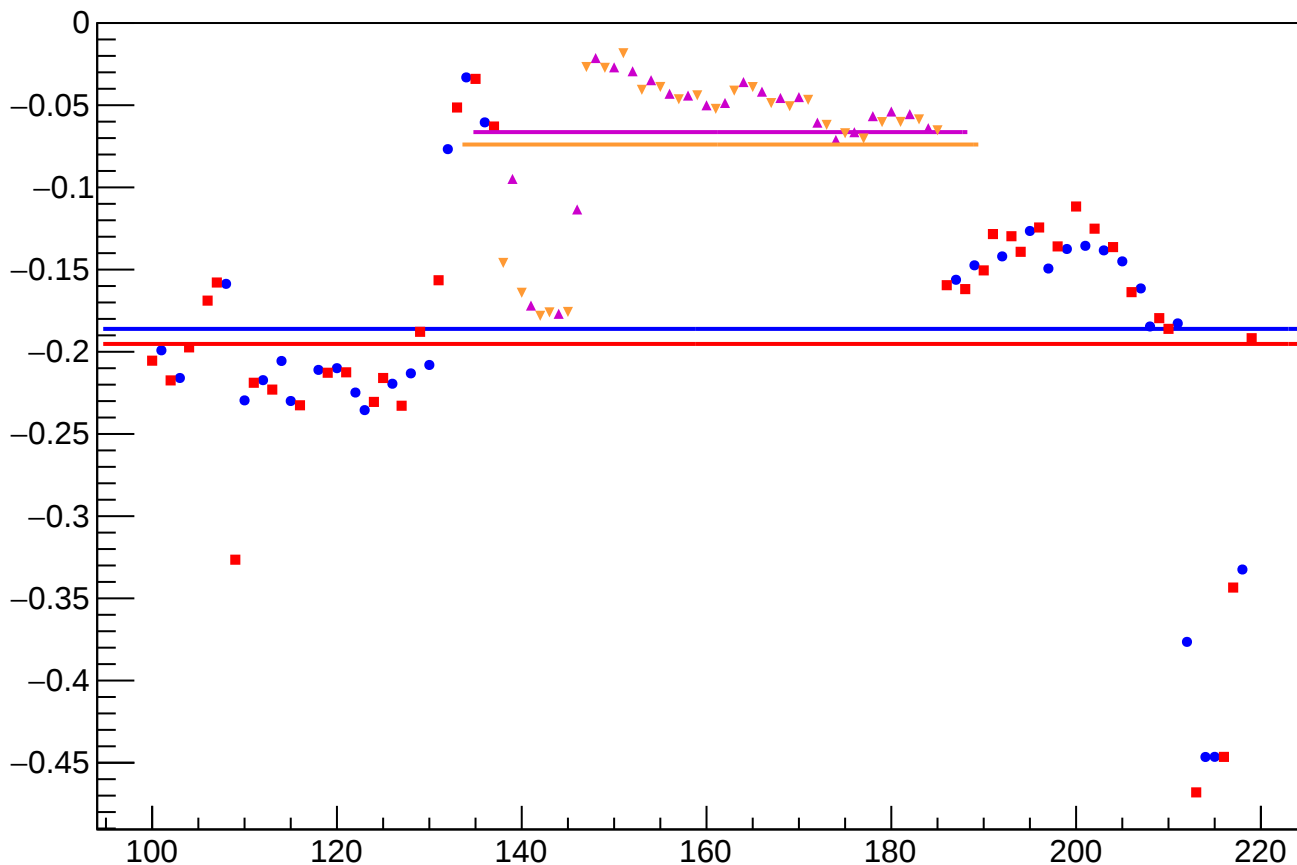
Right: 0.015+/-0.000 χ^2/NDF : 4110426.1/69

In: 0.013+/-0.000 χ^2/NDF : 2919570.9/55

Out: 0.013+/-0.000 χ^2/NDF : 3843241.8/61

All: 0.013+/-0.000 χ^2/NDF : 6767529.9/117

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.186+/-0.000 χ^2 /NDF: 127789775.4/32

Left Out: -0.074+/-0.000 χ^2 /NDF: 107858881.3/24

Right Out: -0.195+/-0.000 χ^2 /NDF: 134106557.2/36

Left In: -0.066+/-0.000 χ^2 /NDF: 76283954.4/22

Left: -0.070+/-0.000 χ^2 /NDF: 185261776.8/47

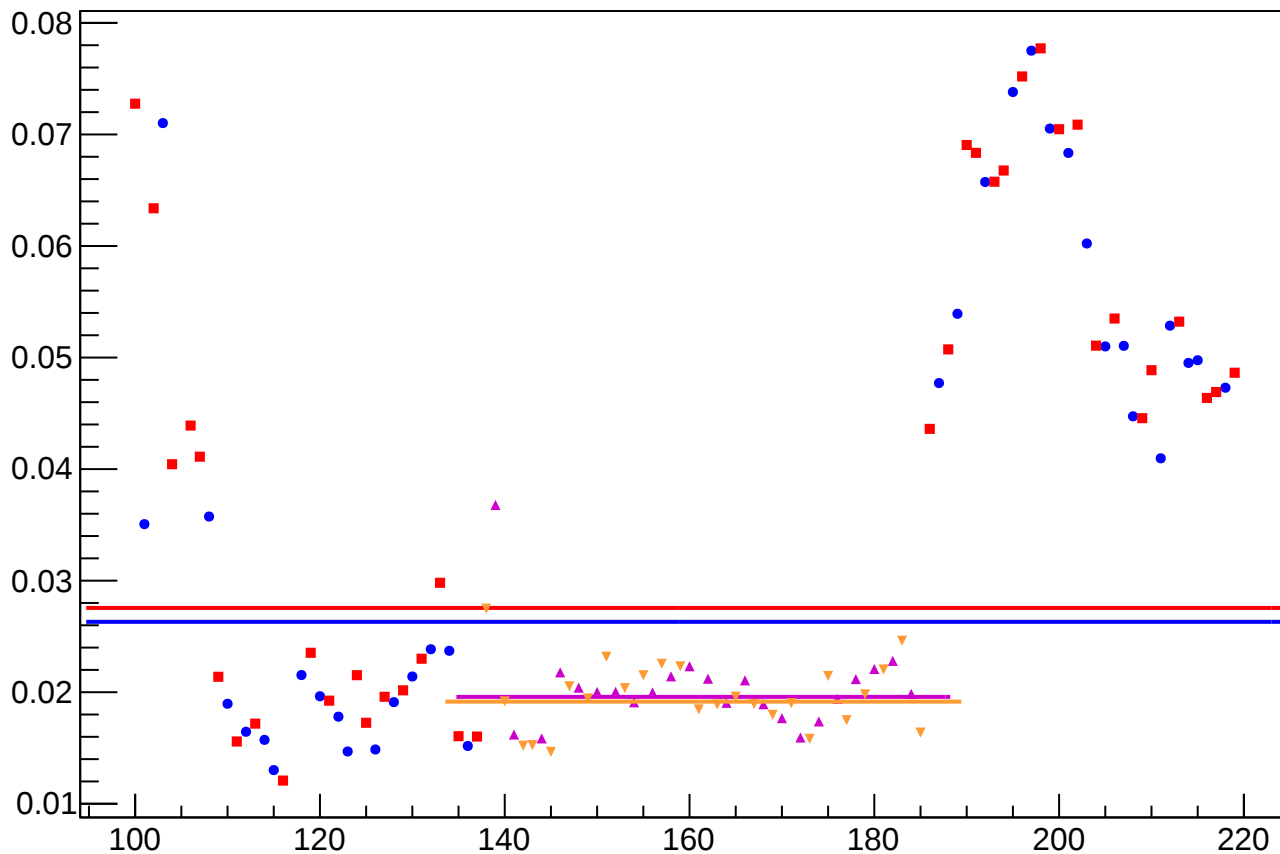
Right: -0.191+/-0.000 χ^2 /NDF: 262627517.6/69

In: -0.105+/-0.000 χ^2 /NDF: 375494875.0/55

Out: -0.110+/-0.000 χ^2 /NDF: 421758453.9/61

All: -0.107+/-0.000 χ^2 /NDF: 798044917.2/11

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 9116692.9/32

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:641027.3/24

Right Out: 0.028 $\pm$ 0.000 χ^2 /NDF: 9593347.2/36

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF:651328.7/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1299461.3/47

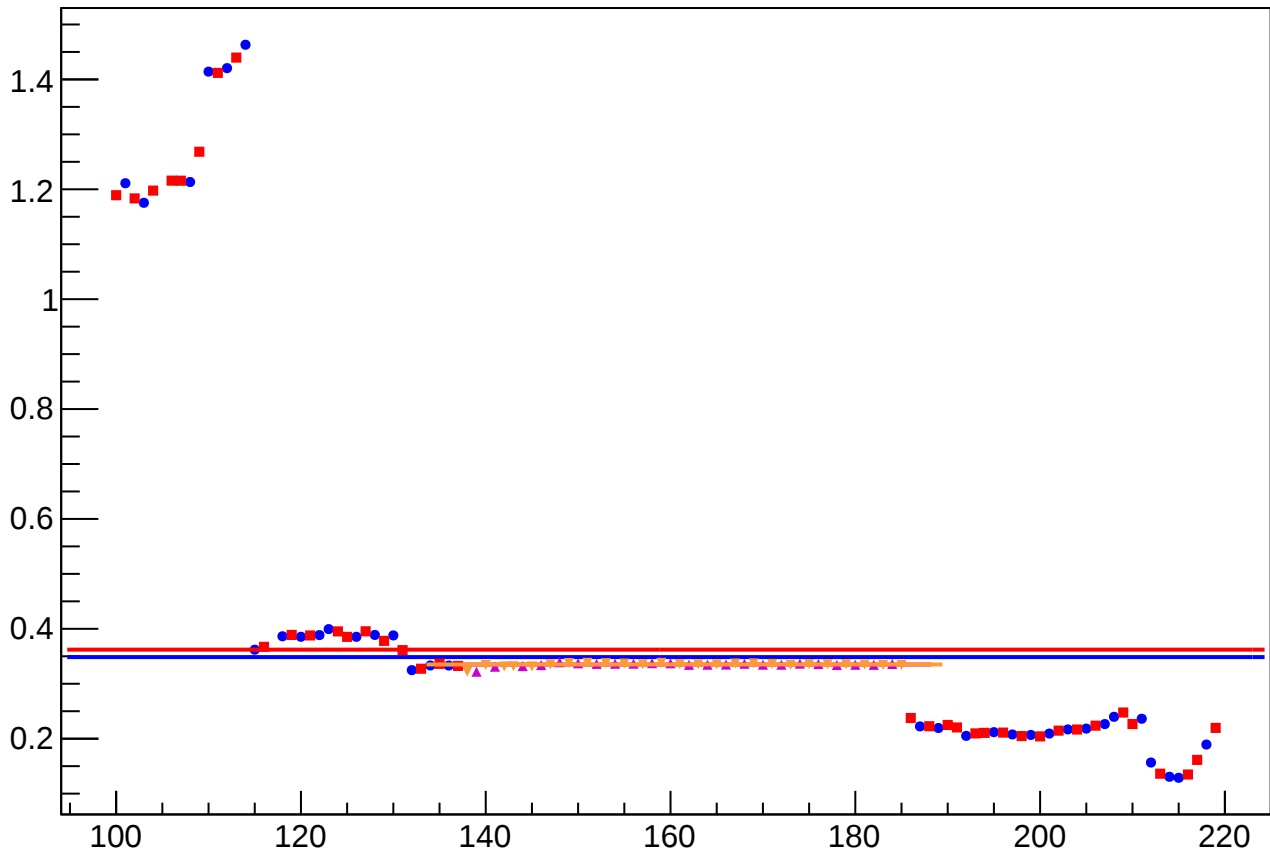
Right: 0.027 $\pm$ 0.000 χ^2 /NDF: 18737249.9/69

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10850719.5/55

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:11958839.3/61

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 22809955.4/117

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.349+/-0.000 χ^2/NDF : 8047252603.5/32

Left Out: 0.335+/-0.000 χ^2/NDF :1153956.7/24

Right Out: 0.362+/-0.000 χ^2/NDF : 9136216152.3/36

Left In: 0.335+/-0.000 χ^2/NDF :1198302.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2352818.7/47

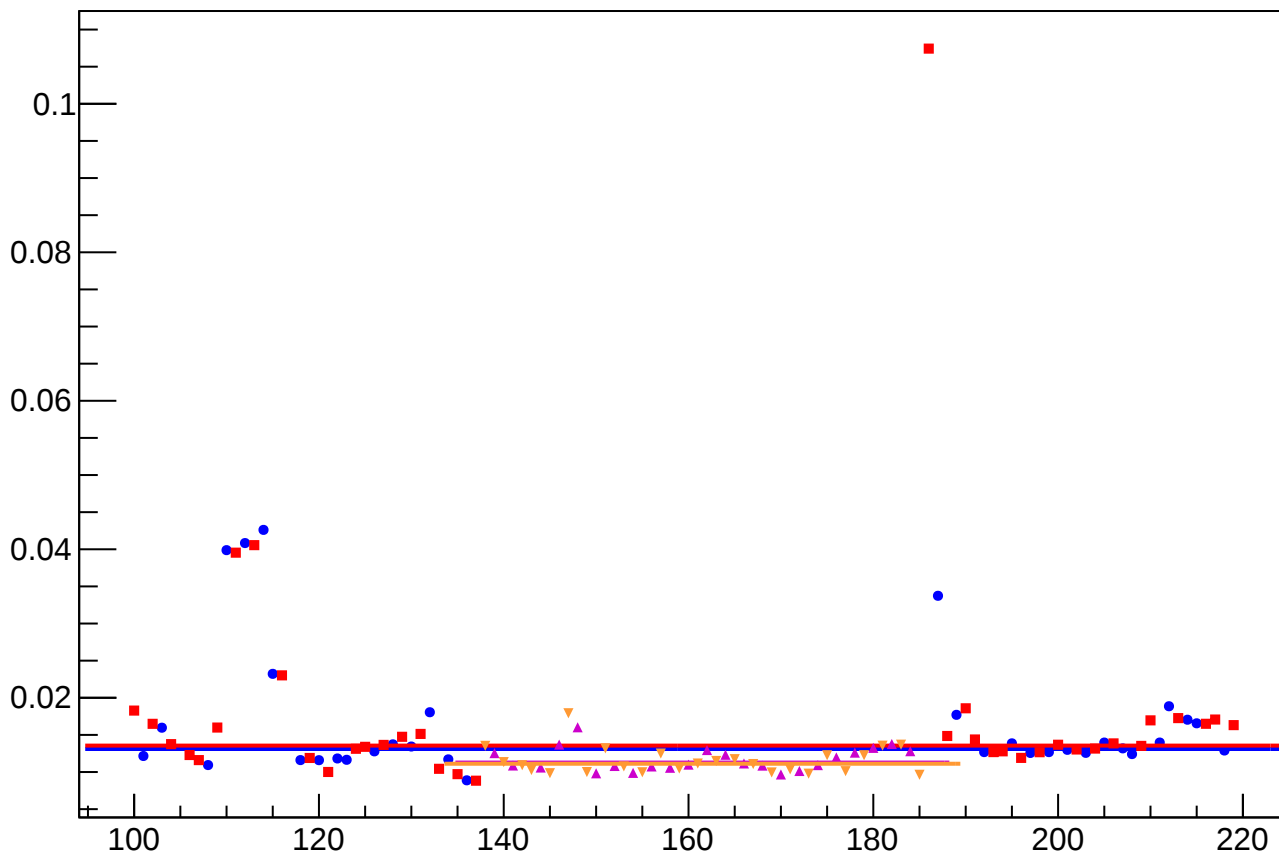
Right: 0.355+/-0.000 χ^2/NDF : 17192196045.6/69

In: 0.341+/-0.000 χ^2/NDF :8058515846.0/55

Out: 0.346+/-0.000 χ^2/NDF :9178680597.7/61

All: 0.343+/-0.000 χ^2/NDF : 17240317394.6/131

yield_bpm4eY_rms vs Slug, Sign Corrected



Left: 0.011 ± 0.000 $\chi^2/\text{NDF}: 1113859.9/47$

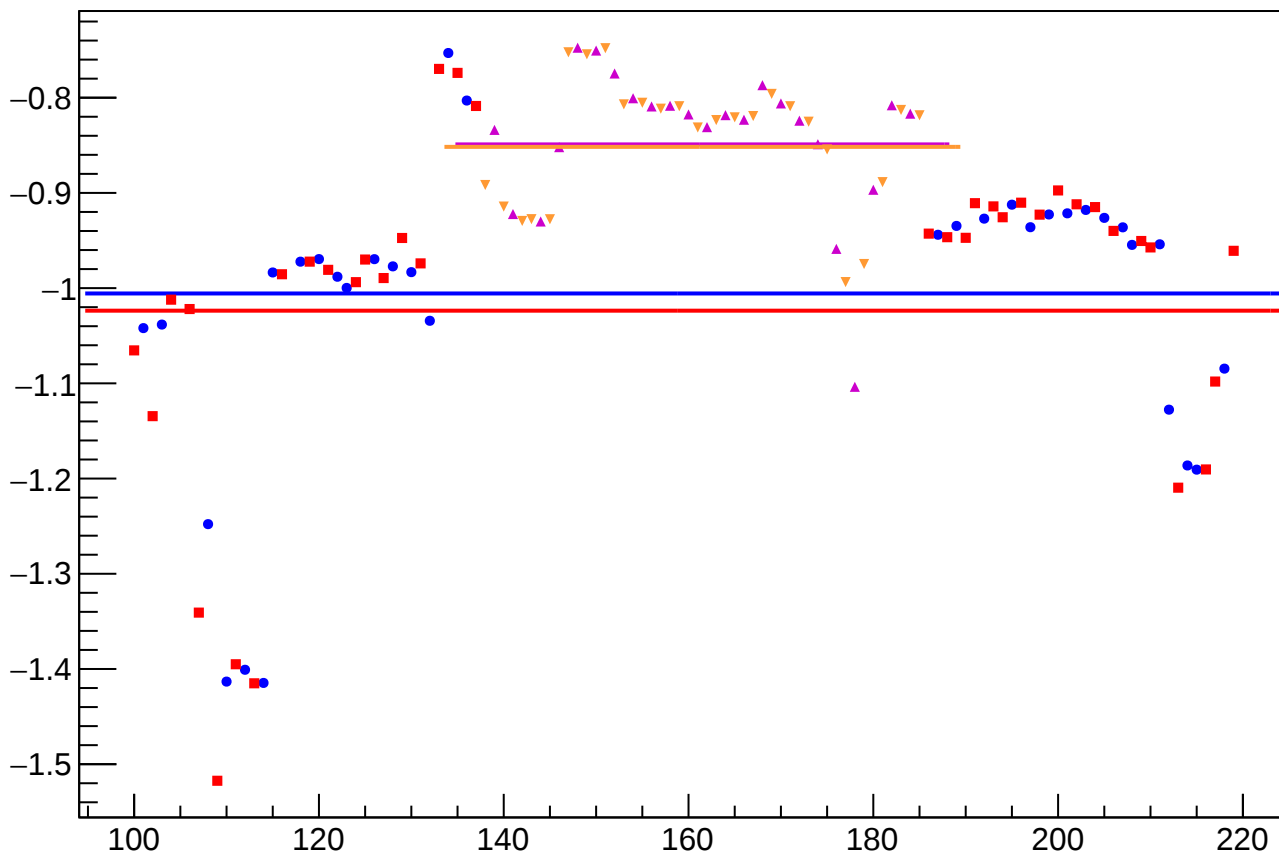
Right: 0.013 ± 0.000 $\chi^2/\text{NDF}: 4105160.4/69$

In: 0.012 ± 0.000 $\chi^2/\text{NDF}: 2699583.1/55$

Out: 0.012 ± 0.000 $\chi^2/\text{NDF}: 3540603.8/61$

All: 0.012 ± 0.000 $\chi^2/\text{NDF}: 6240758.8/117$

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.006 ± 0.000 $\chi^2/\text{NDF}: 428732541.1/32$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189276591.7/24$

Right Out: -1.024 ± 0.000 $\chi^2/\text{NDF}: 578381828.8/36$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256438306.8/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445849768.4/47$

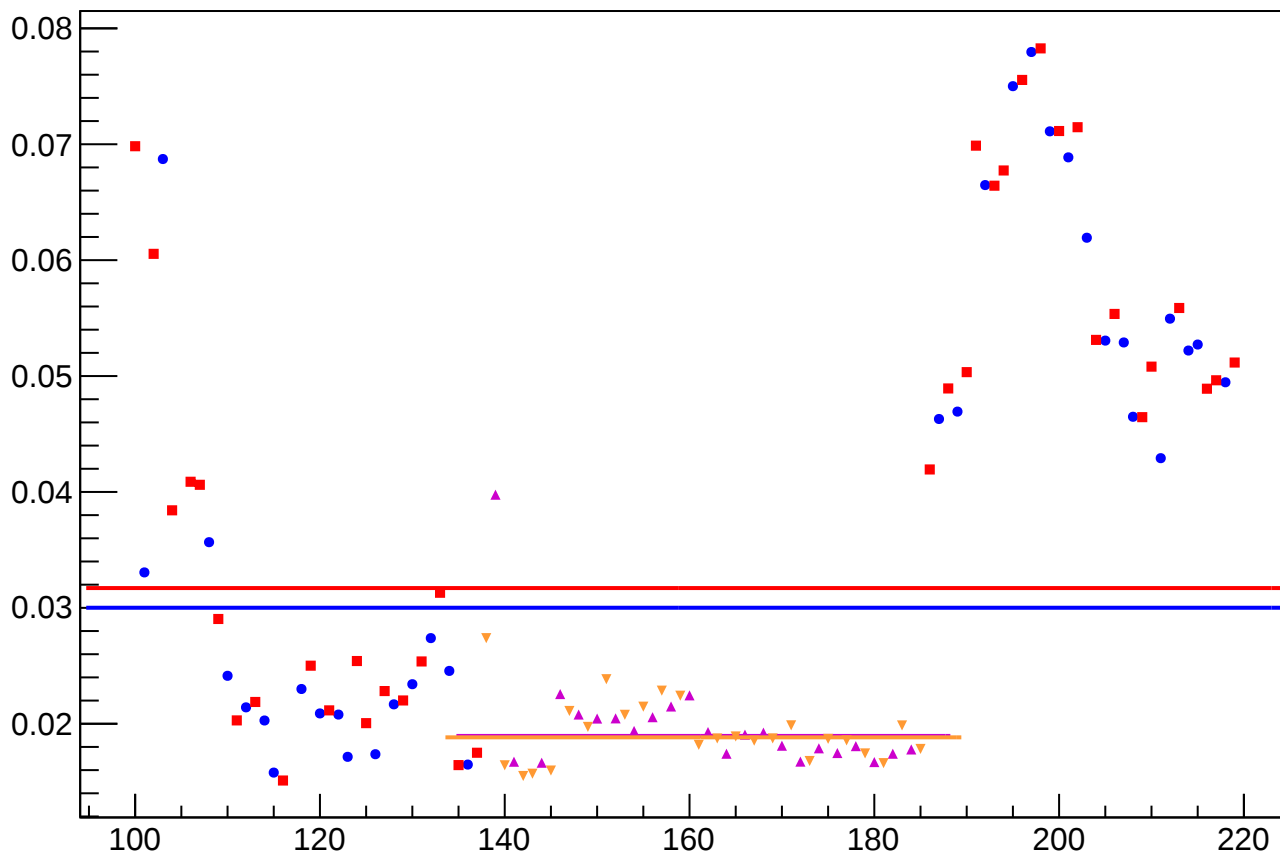
Right: -1.015 ± 0.000 $\chi^2/\text{NDF}: 1009423390.0/69$

In: -0.891 ± 0.000 $\chi^2/\text{NDF}: 941612514.6/55$

Out: -0.895 ± 0.000 $\chi^2/\text{NDF}: 1078507018.8/61$

All: -0.893 ± 0.000 $\chi^2/\text{NDF}: 2020517246.2/111$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 7697994.2/32

Left Out: 0.019+/-0.000 χ^2/NDF :490084.5/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7743411.6/36

Left In: 0.019+/-0.000 χ^2/NDF :645048.1/22

Left: 0.019+/-0.000 χ^2/NDF : 1135735.6/47

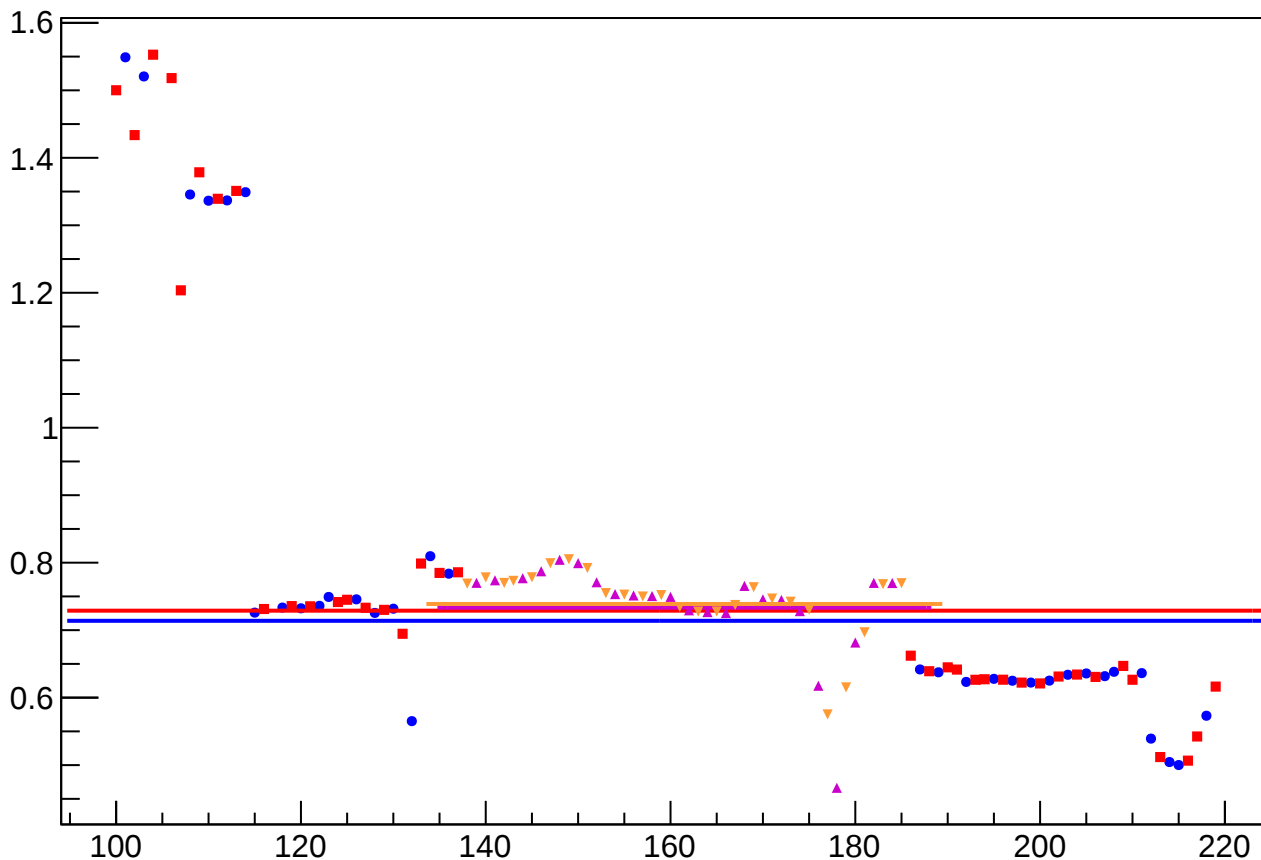
Right: 0.031+/-0.000 χ^2/NDF : 15482197.3/69

In: 0.022+/-0.000 χ^2/NDF :10902711.2/55

Out: 0.022+/-0.000 χ^2/NDF :11718012.4/61

All: 0.022+/-0.000 χ^2/NDF : 22621903.9/117

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.714 $\pm$ 0.000 χ^2 /NDF: 3902364899.9/32

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333086309.0/24

Right Out: 0.729 $\pm$ 0.000 χ^2 /NDF: 4221995220.5/36

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

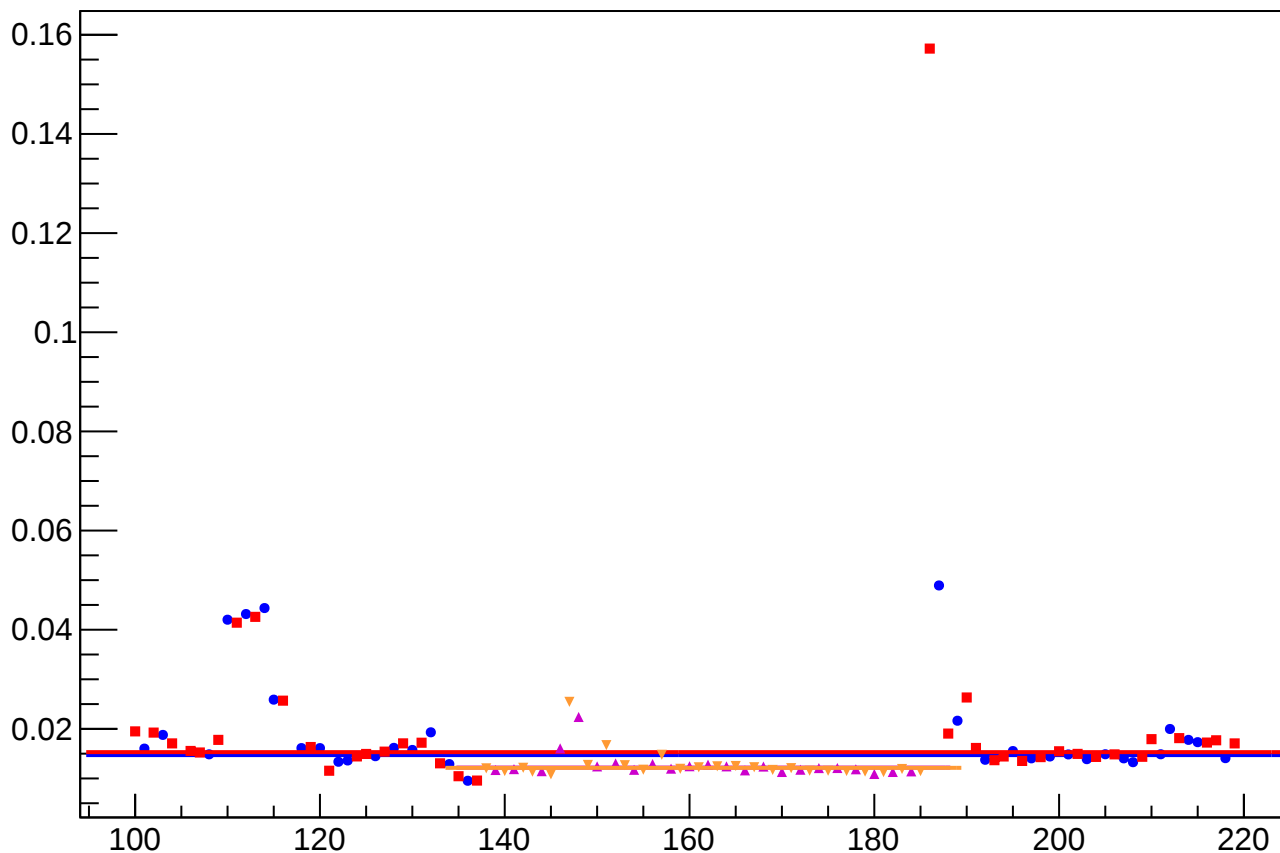
Right: 0.721 $\pm$ 0.000 χ^2 /NDF: 8132821444.1/69

In: 0.726 $\pm$ 0.000 χ^2 /NDF:4489800741.1/55

Out: 0.735 $\pm$ 0.000 χ^2 /NDF:4559619577.2/61

All: 0.730 $\pm$ 0.000 χ^2 /NDF: 9057999092.7/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Left: 0.012 ± 0.000 $\chi^2/\text{NDF}: 1120132.0/47$

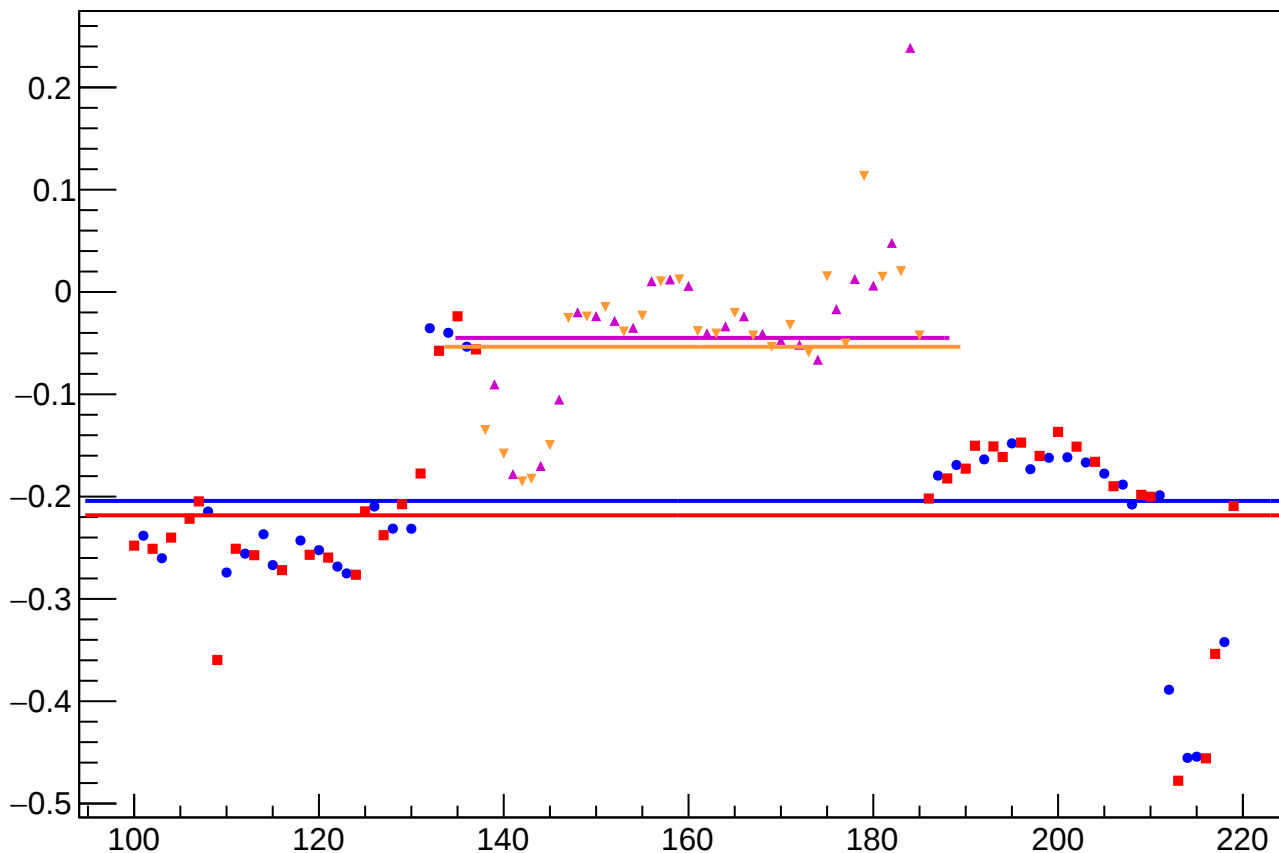
Right: 0.015 ± 0.000 $\chi^2/\text{NDF}: 4100713.6/69$

In: 0.013 ± 0.000 $\chi^2/\text{NDF}: 2903874.3/55$

Out: 0.013 ± 0.000 $\chi^2/\text{NDF}: 3787534.0/61$

All: 0.013 ± 0.000 $\chi^2/\text{NDF}: 6696103.0/117$

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.204 ± 0.000 $\chi^2/\text{NDF}: 160307674.3/32$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167879648.0/24$

Right Out: -0.218 ± 0.000 $\chi^2/\text{NDF}: 155523978.7/36$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127324000.1/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296677486.5/47$

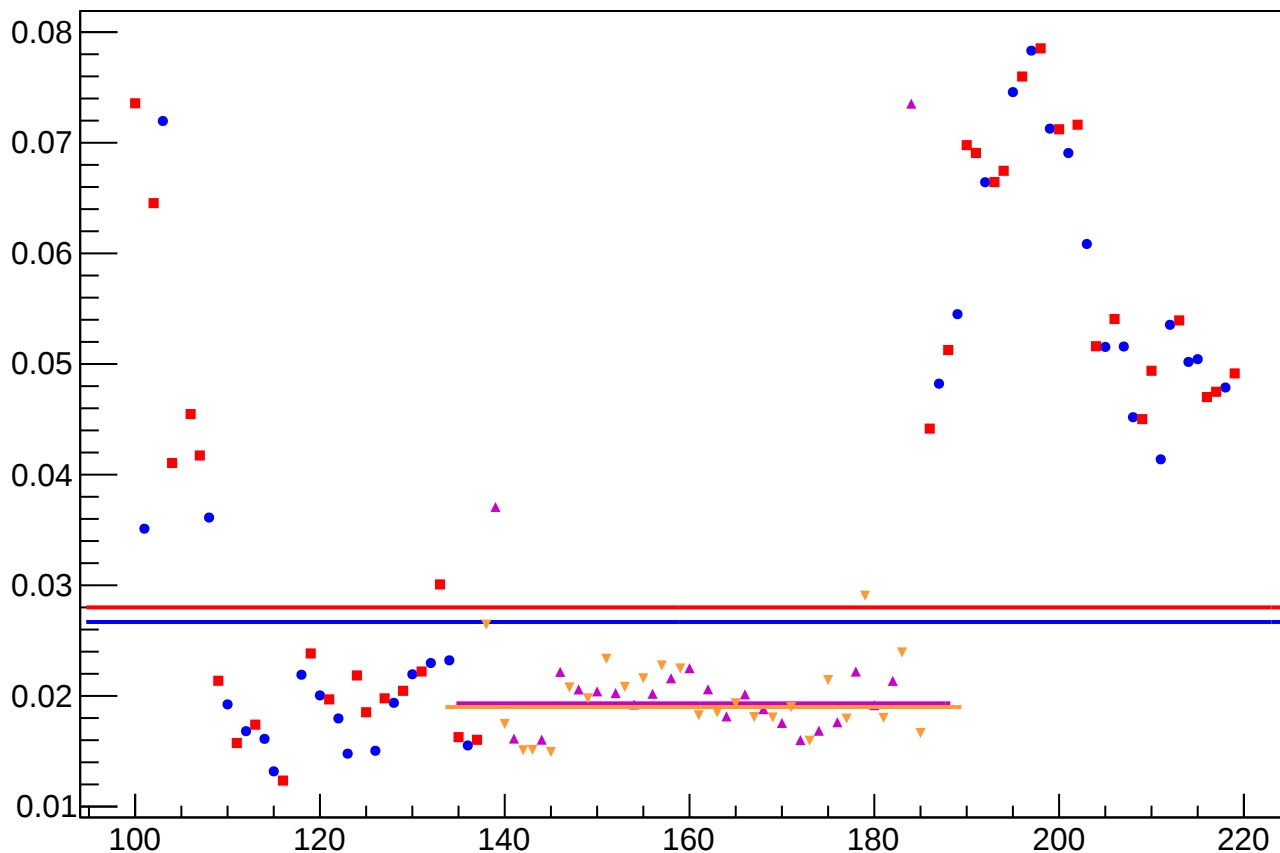
Right: -0.211 ± 0.000 $\chi^2/\text{NDF}: 317505112.7/69$

In: -0.095 ± 0.000 $\chi^2/\text{NDF}: 585531383.1/55$

Out: -0.102 ± 0.000 $\chi^2/\text{NDF}: 646132126.6/61$

All: -0.099 ± 0.000 $\chi^2/\text{NDF}: 1232993505.3/1$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.000 χ^2 /NDF: 9054001.4/32

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:699267.5/24

Right Out: 0.028 $\pm$ 0.000 χ^2 /NDF: 9526207.5/36

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

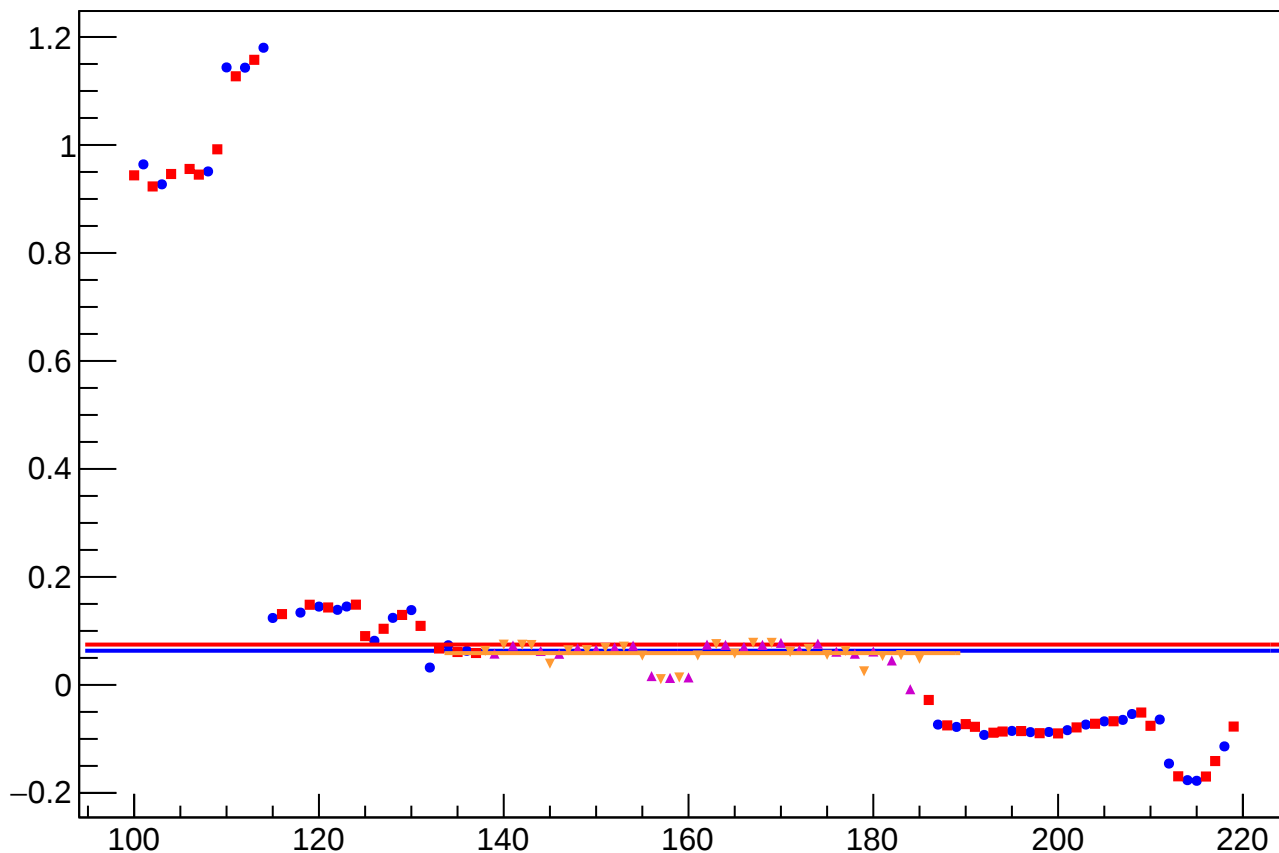
Right: 0.027 $\pm$ 0.000 χ^2 /NDF: 18609747.8/69

In: 0.022 $\pm$ 0.000 χ^2 /NDF:11215924.9/55

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:12156325.6/61

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 23372251.7/117

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.063+/-0.000 χ^2/NDF : 8791806070.3/32

Left Out: 0.059+/-0.000 χ^2/NDF : 46902918.4/24

Right Out: 0.075+/-0.000 χ^2/NDF : 9721322184.9/36

Left In: 0.059+/-0.000 χ^2/NDF : 58640898.5/22

Left: 0.059+/-0.000 χ^2/NDF : 105549886.8/47

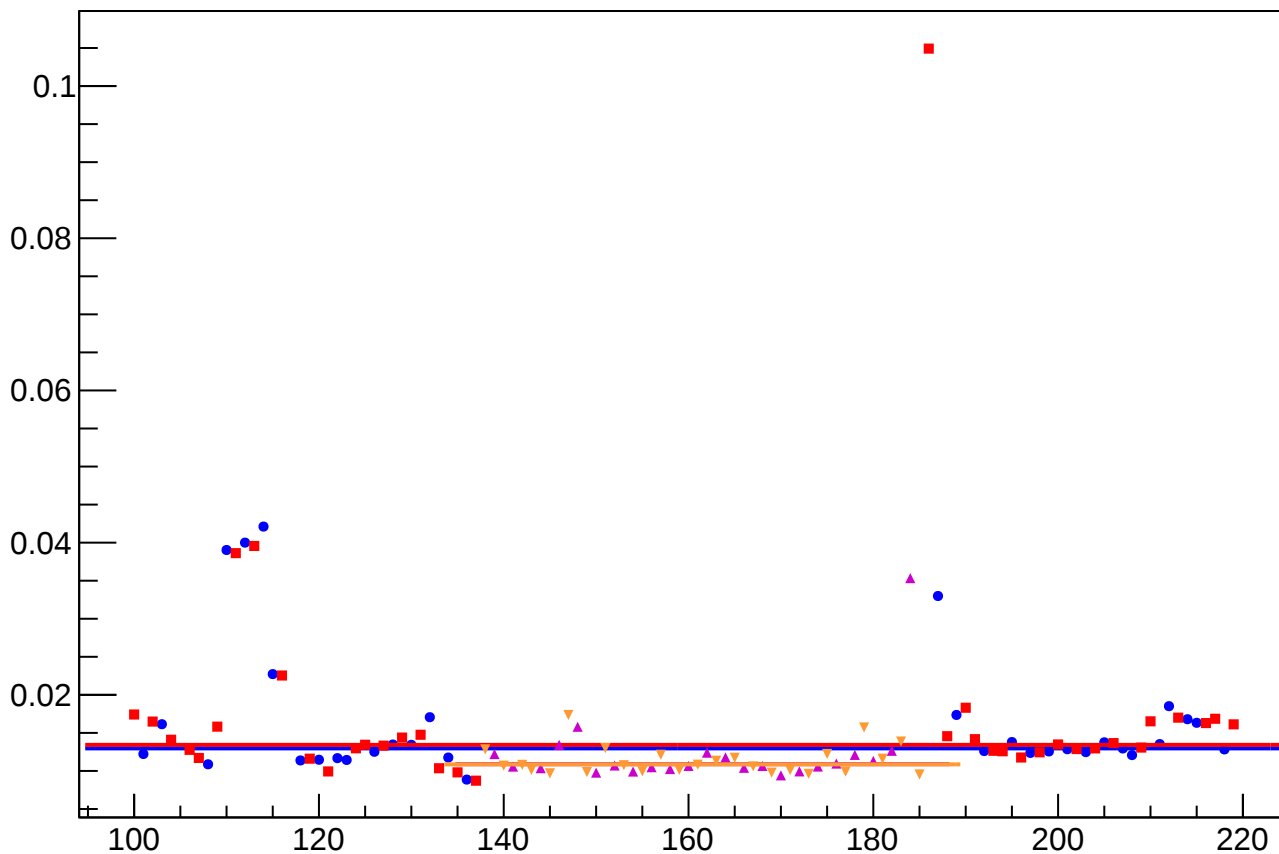
Right: 0.069+/-0.000 χ^2/NDF : 18519455203.3/69

In: 0.061+/-0.000 χ^2/NDF : 8851412107.9/55

Out: 0.065+/-0.000 χ^2/NDF : 9782730726.8/61

All: 0.063+/-0.000 χ^2/NDF : 18636383036.5/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1782098.6/32

Left Out: 0.011+/-0.000 χ^2/NDF : 605519.3/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2196452.6/36

Left In: 0.011+/-0.000 χ^2/NDF : 529867.3/22

Left: 0.011+/-0.000 χ^2/NDF : 1135492.7/47

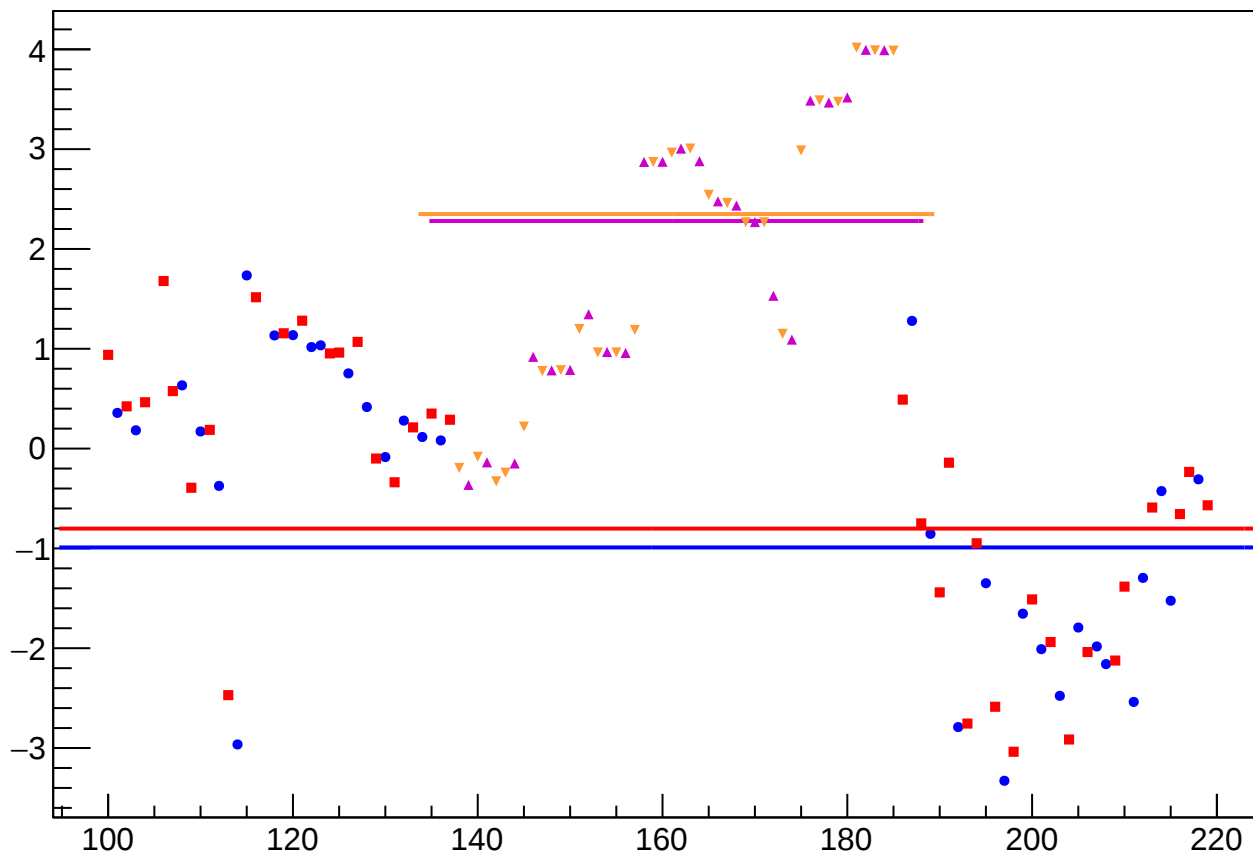
Right: 0.013+/-0.000 χ^2/NDF : 3999298.1/69

In: 0.012+/-0.000 χ^2/NDF : 2800184.2/55

Out: 0.012+/-0.000 χ^2/NDF : 3560643.9/61

All: 0.012+/-0.000 χ^2/NDF : 6365398.4/117

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.991 ± 0.000 $\chi^2/\text{NDF}: 8003890444.2/32$

Left Out: 2.349 ± 0.000 $\chi^2/\text{NDF}: 63600066268.3/24$

Right Out: -0.802 ± 0.000 $\chi^2/\text{NDF}: 8301494693.5/36$

Left In: 2.280 ± 0.000 $\chi^2/\text{NDF}: 61444254541.3/22$

Left: 2.314 ± 0.000 $\chi^2/\text{NDF}: 125168787170.9/47$

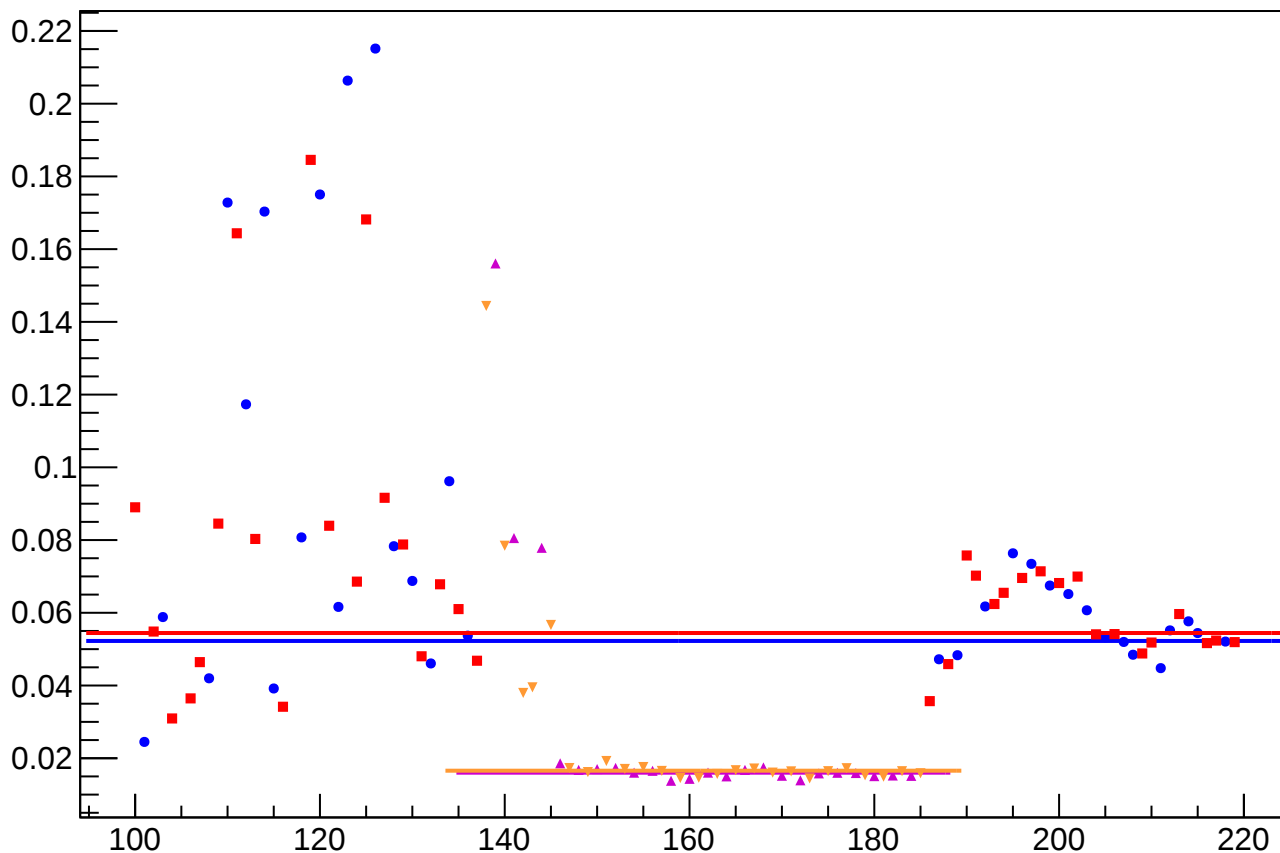
Right: -0.895 ± 0.000 $\chi^2/\text{NDF}: 16398219310.4/69$

In: 1.986 ± 0.000 $\chi^2/\text{NDF}: 119595505181.5/55$

Out: 2.056 ± 0.000 $\chi^2/\text{NDF}: 119170062992.7/61$

All: 2.021 ± 0.000 $\chi^2/\text{NDF}: 238903313072.8$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3525717.4/32

Left Out: 0.017+/-0.000 χ^2/NDF : 2623615.6/24

Right Out: 0.054+/-0.000 χ^2/NDF : 2885644.2/36

Left In: 0.016+/-0.000 χ^2/NDF : 2463853.3/22

Left: 0.016+/-0.000 χ^2/NDF : 5102815.6/47

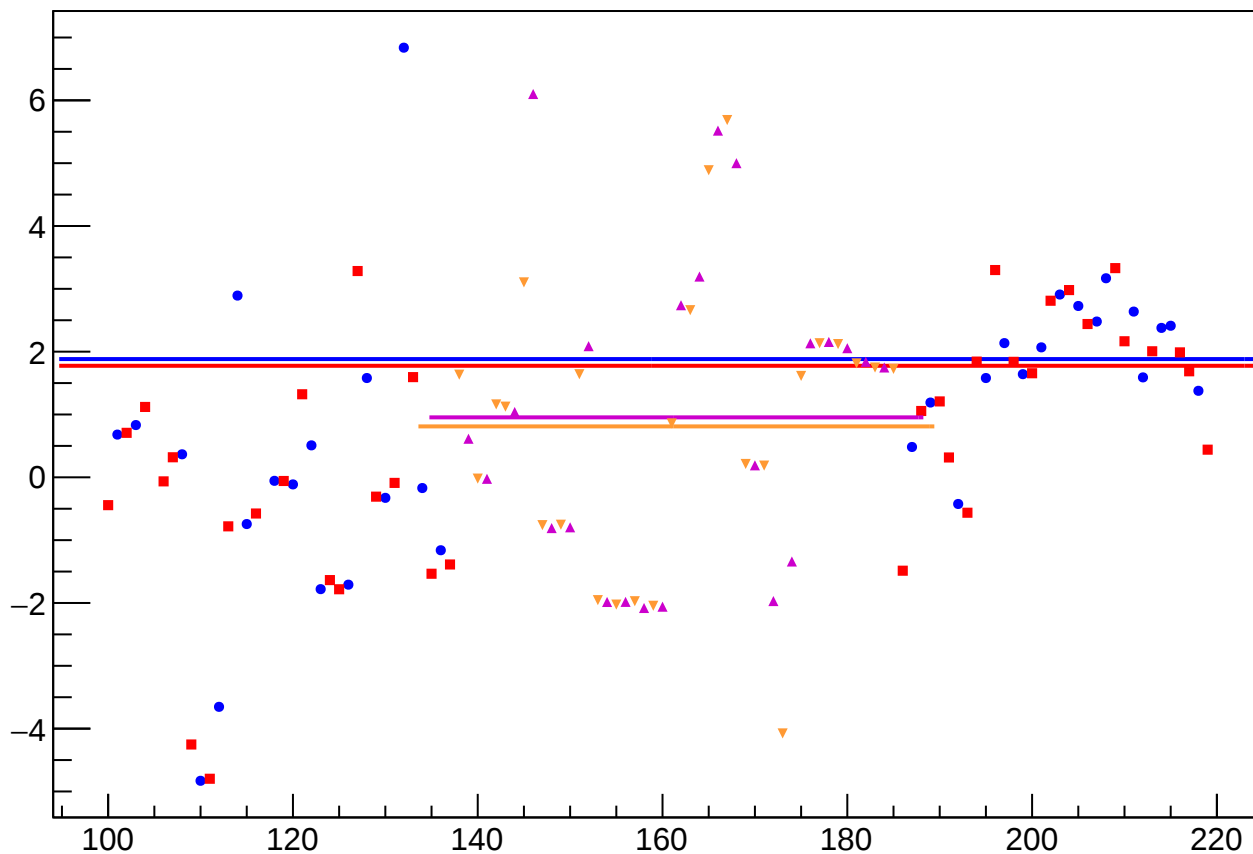
Right: 0.053+/-0.000 χ^2/NDF : 6436240.5/69

In: 0.019+/-0.000 χ^2/NDF : 18293609.1/55

Out: 0.020+/-0.000 χ^2/NDF : 19162360.2/61

All: 0.020+/-0.000 χ^2/NDF : 37494129.7/117

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.882 $\pm$ 0.000

χ^2 /NDF: 40044475555.7/32

Left: 0.883 $\pm$ 0.000

χ^2 /NDF: 1083260277372.9/47

Left Out: 0.810 $\pm$ 0.000

χ^2 /NDF: 507583198570.2/24

Right: 1.828 $\pm$ 0.000

χ^2 /NDF: 84114190624.4/69

Right Out: 1.775 $\pm$ 0.000

χ^2 /NDF: 43877243693.8/36

In: 1.216 $\pm$ 0.000

χ^2 /NDF: 635617671481.6/55

Left In: 0.954 $\pm$ 0.000

χ^2 /NDF: 574792794608.3/22

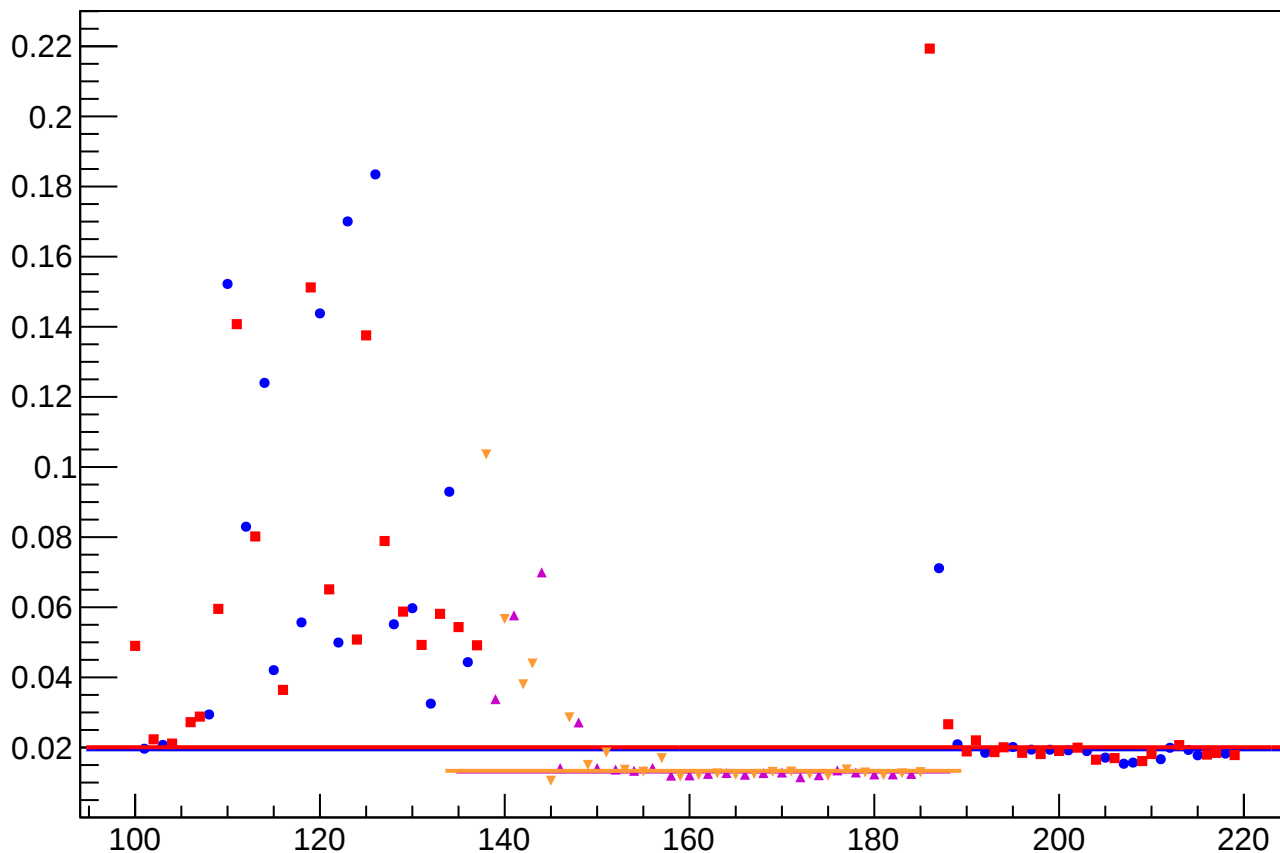
Out: 1.085 $\pm$ 0.000

χ^2 /NDF: 574021825152.0/61

All: 1.150 $\pm$ 0.000

χ^2 /NDF: 1210656899807.0/100

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 4132977.0/32

Left Out: 0.013+/-0.000 χ^2/NDF :2829070.5/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5227376.3/36

Left In: 0.013+/-0.000 χ^2/NDF :1968206.9/22

Left: 0.013+/-0.000 χ^2/NDF : 4800890.3/47

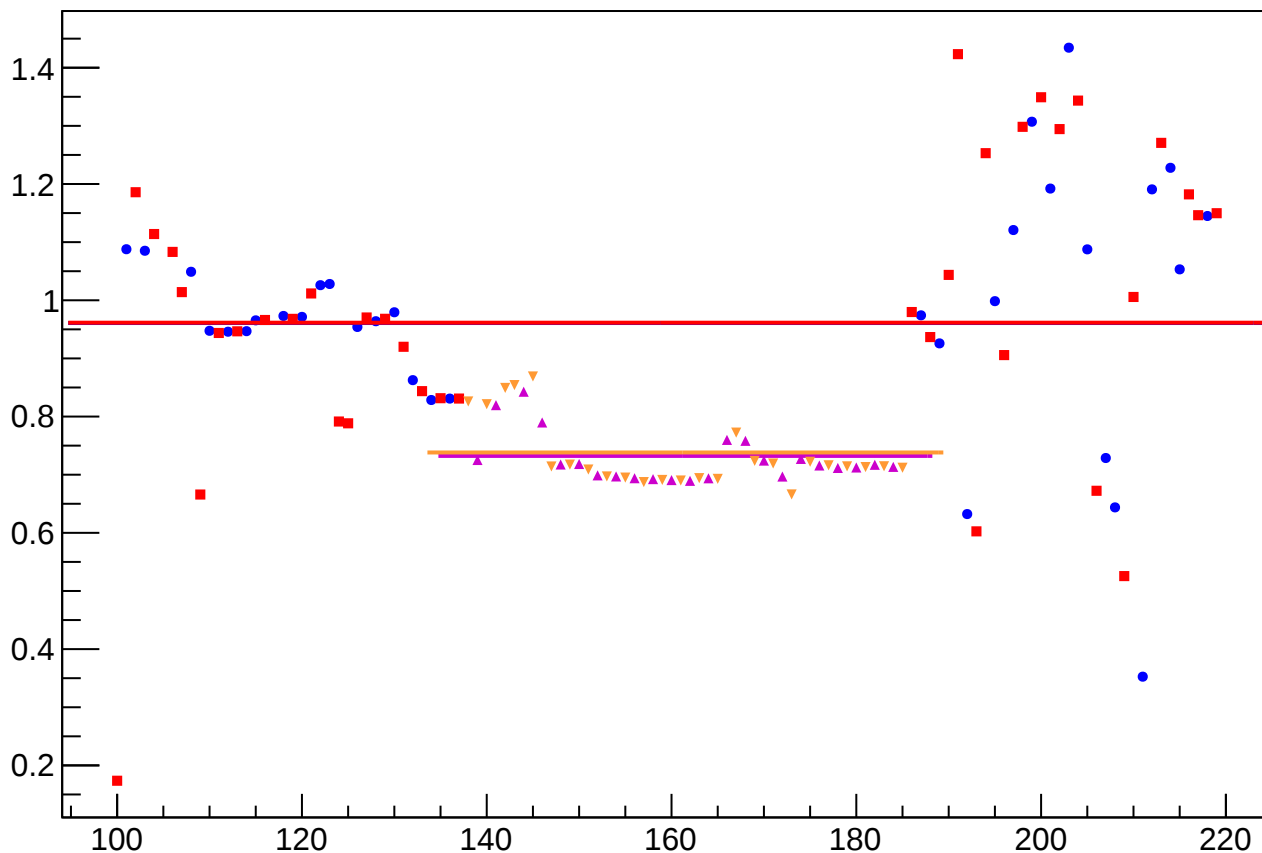
Right: 0.020+/-0.000 χ^2/NDF : 9372326.6/69

In: 0.015+/-0.000 χ^2/NDF :8045722.3/55

Out: 0.015+/-0.000 χ^2/NDF :10255538.8/61

All: 0.015+/-0.000 χ^2/NDF : 18314625.1/117

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.961+/-0.000 χ^2/NDF : 1014888403.7/32

Left Out: 0.738+/-0.000 χ^2/NDF : 310610047.7/24

Right Out: 0.961+/-0.000 χ^2/NDF : 1319906774.3/36

Left In: 0.732+/-0.000 χ^2/NDF : 170806298.1/22

Left: 0.735+/-0.000 χ^2/NDF : 482865670.9/47

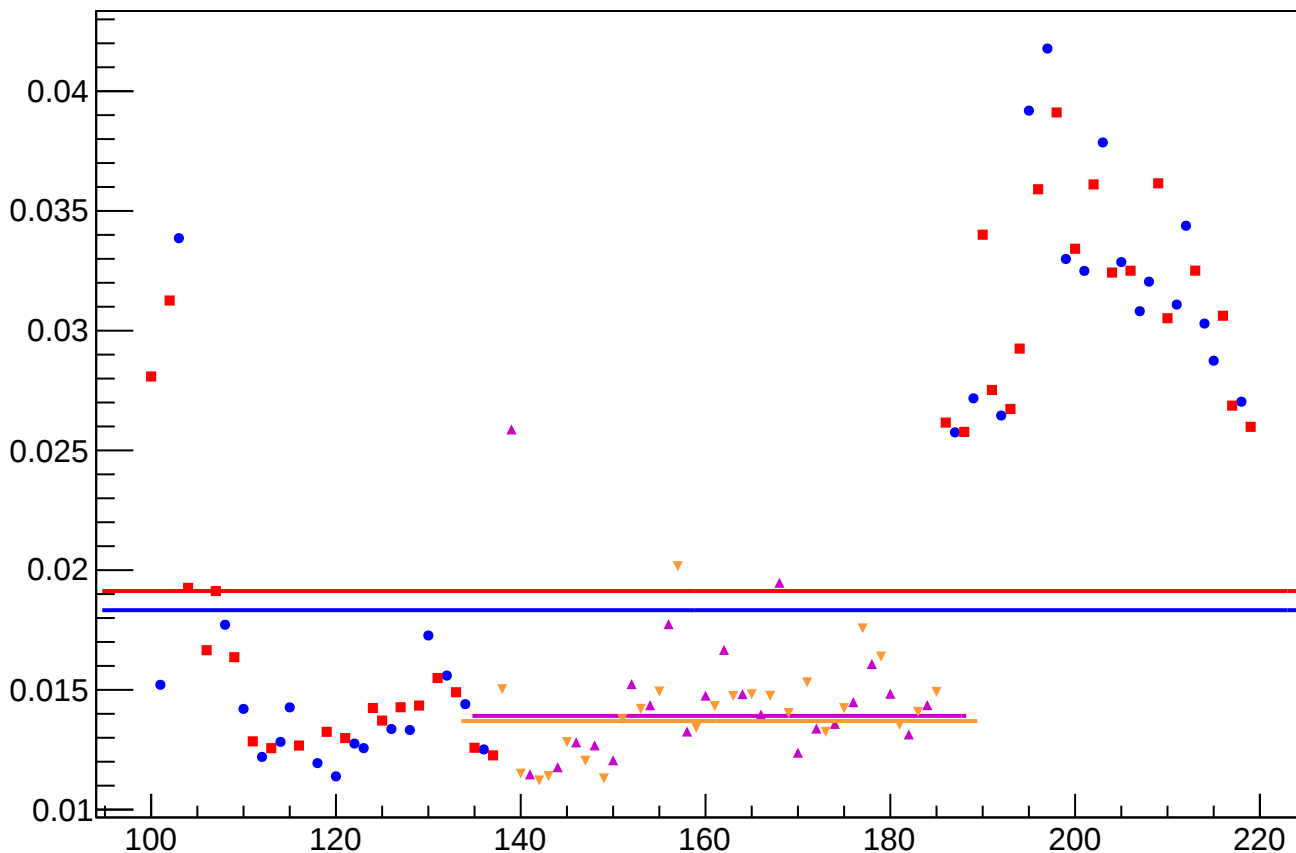
Right: 0.961+/-0.000 χ^2/NDF : 2334801422.1/69

In: 0.810+/-0.000 χ^2/NDF : 2604268221.2/55

Out: 0.811+/-0.000 χ^2/NDF : 3033865525.8/61

All: 0.810+/-0.000 χ^2/NDF : 5638253486.5/111

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.000 χ^2/NDF : 5723174.1/32

Left Out: 0.014 $\pm$ 0.000 χ^2/NDF : 530851.9/24

Right Out: 0.019 $\pm$ 0.000 χ^2/NDF : 5243127.1/36

Left In: 0.014 $\pm$ 0.000 χ^2/NDF : 794558.0/22

Left: 0.014 $\pm$ 0.000 χ^2/NDF : 1329255.3/47

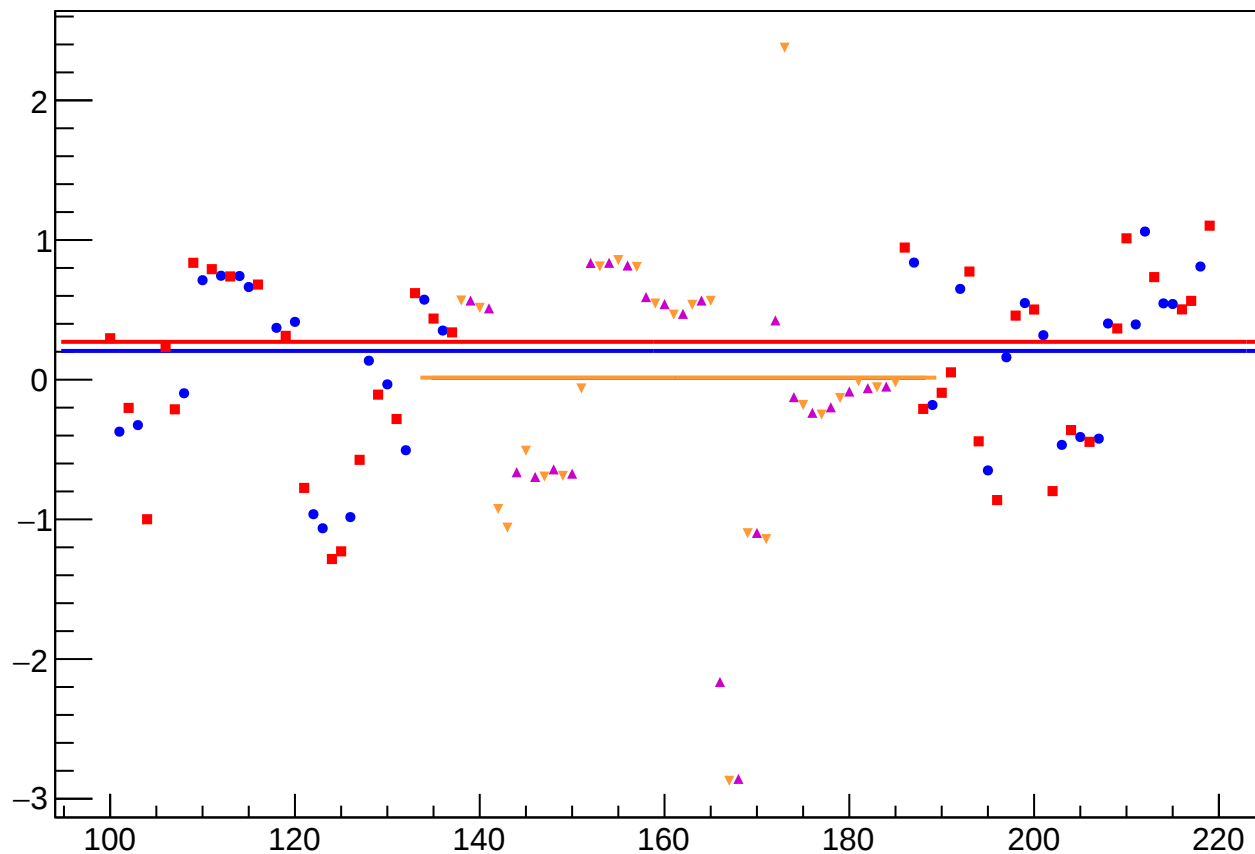
Right: 0.019 $\pm$ 0.000 χ^2/NDF : 10992831.6/69

In: 0.015 $\pm$ 0.000 χ^2/NDF : 7576002.3/55

Out: 0.015 $\pm$ 0.000 χ^2/NDF : 7434793.6/61

All: 0.015 $\pm$ 0.000 χ^2/NDF : 15011281.7/117

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.206+/-0.000

χ^2/NDF : 33924858899.8/32

Left: 0.014+/-0.000

χ^2/NDF : 175533691121.4/47

Left Out: 0.015+/-0.000

χ^2/NDF : 96087835995.8/24

Right: 0.239+/-0.000

χ^2/NDF : 84484651285.2/69

Right Out: 0.271+/-0.000

χ^2/NDF : 50298648609.4/36

In: 0.115+/-0.000

χ^2/NDF : 115469658695.1/55

Out: 0.152+/-0.000

χ^2/NDF : 150246439766.6/61

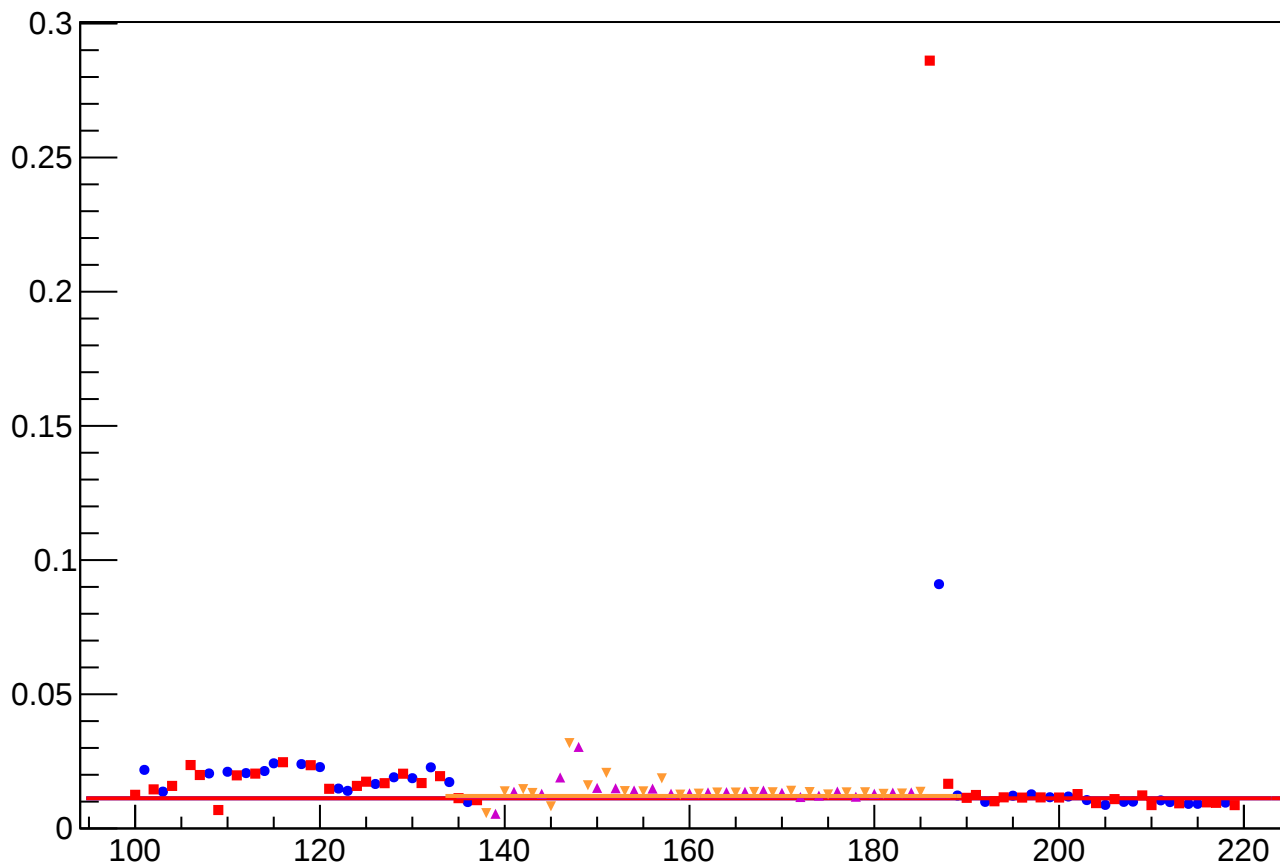
Left In: 0.013+/-0.000

χ^2/NDF : 79445696658.6/22

All: 0.134+/-0.000

χ^2/NDF : 265875089514.9

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2621508.8/32

Left Out: 0.012+/-0.000 χ^2/NDF :3107648.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3227827.5/36

Left In: 0.012+/-0.000 χ^2/NDF :3105948.8/22

Left: 0.012+/-0.000 χ^2/NDF : 6217411.2/47

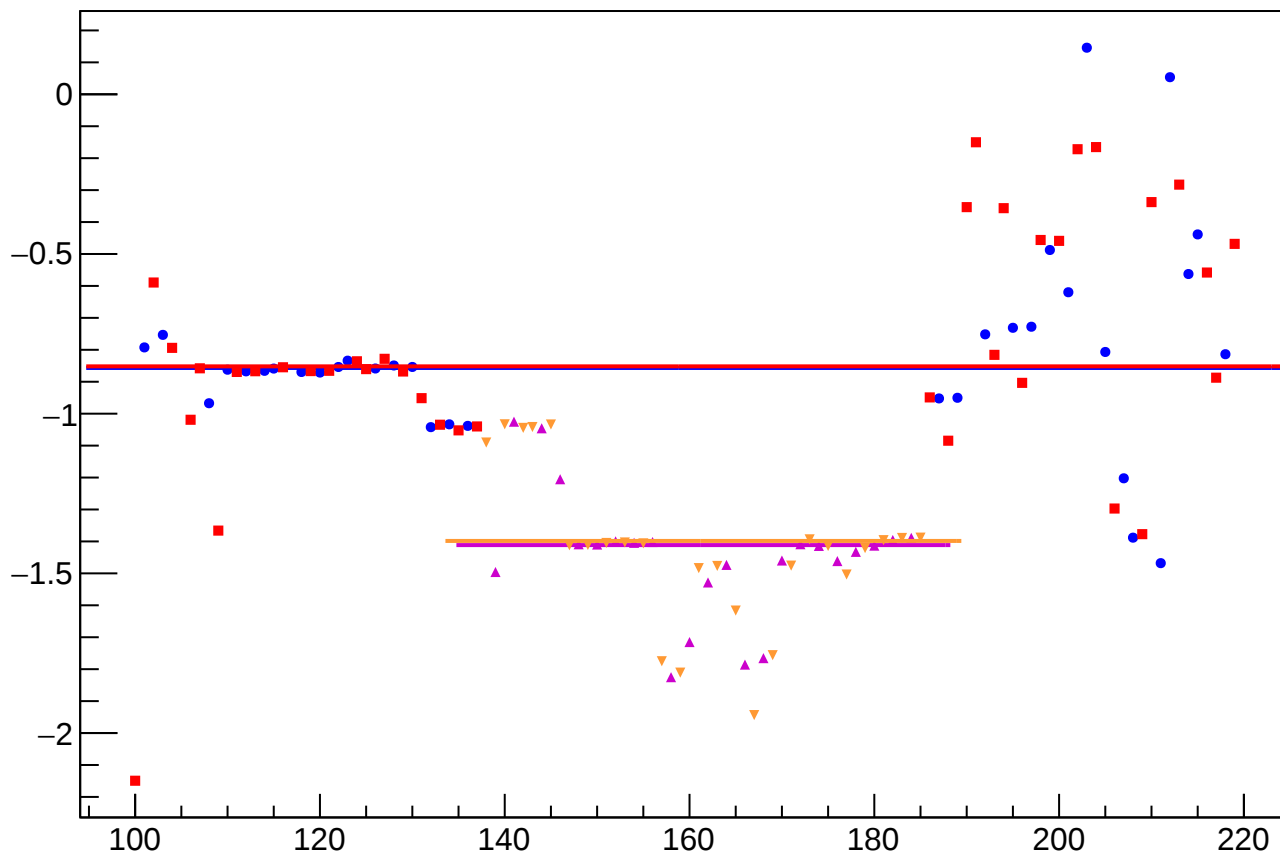
Right: 0.011+/-0.000 χ^2/NDF : 5849337.2/69

In: 0.012+/-0.000 χ^2/NDF :5780674.8/55

Out: 0.012+/-0.000 χ^2/NDF :6425984.4/61

All: 0.012+/-0.000 χ^2/NDF : 12208167.6/117

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.857 ± 0.000 $\chi^2/\text{NDF}: 371551183.8/32$

Left Out: -1.398 ± 0.000 $\chi^2/\text{NDF}: 734579404.3/24$

Right Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 517950056.4/36$

Left In: -1.412 ± 0.000 $\chi^2/\text{NDF}: 512629872.4/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1248268857.1/47$

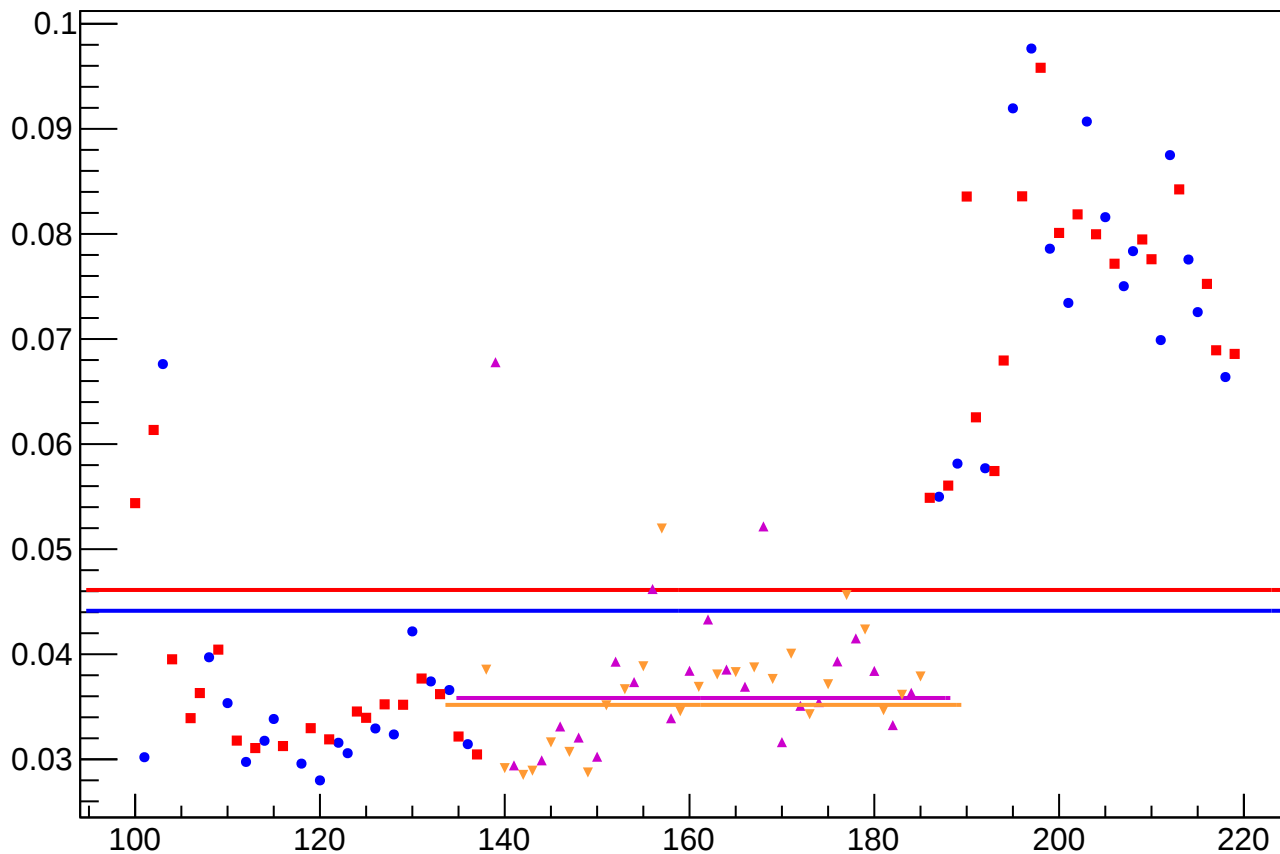
Right: -0.854 ± 0.000 $\chi^2/\text{NDF}: 889590542.3/69$

In: -1.203 ± 0.000 $\chi^2/\text{NDF}: 2268817305.1/55$

Out: -1.202 ± 0.000 $\chi^2/\text{NDF}: 2647453543.1/61$

All: -1.203 ± 0.000 $\chi^2/\text{NDF}: 4916283982.8/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.044 $\pm$ 0.000 χ^2 /NDF: 5546181.5/32

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 597886.0/24

Right Out: 0.046 $\pm$ 0.000 χ^2 /NDF: 4917536.1/36

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

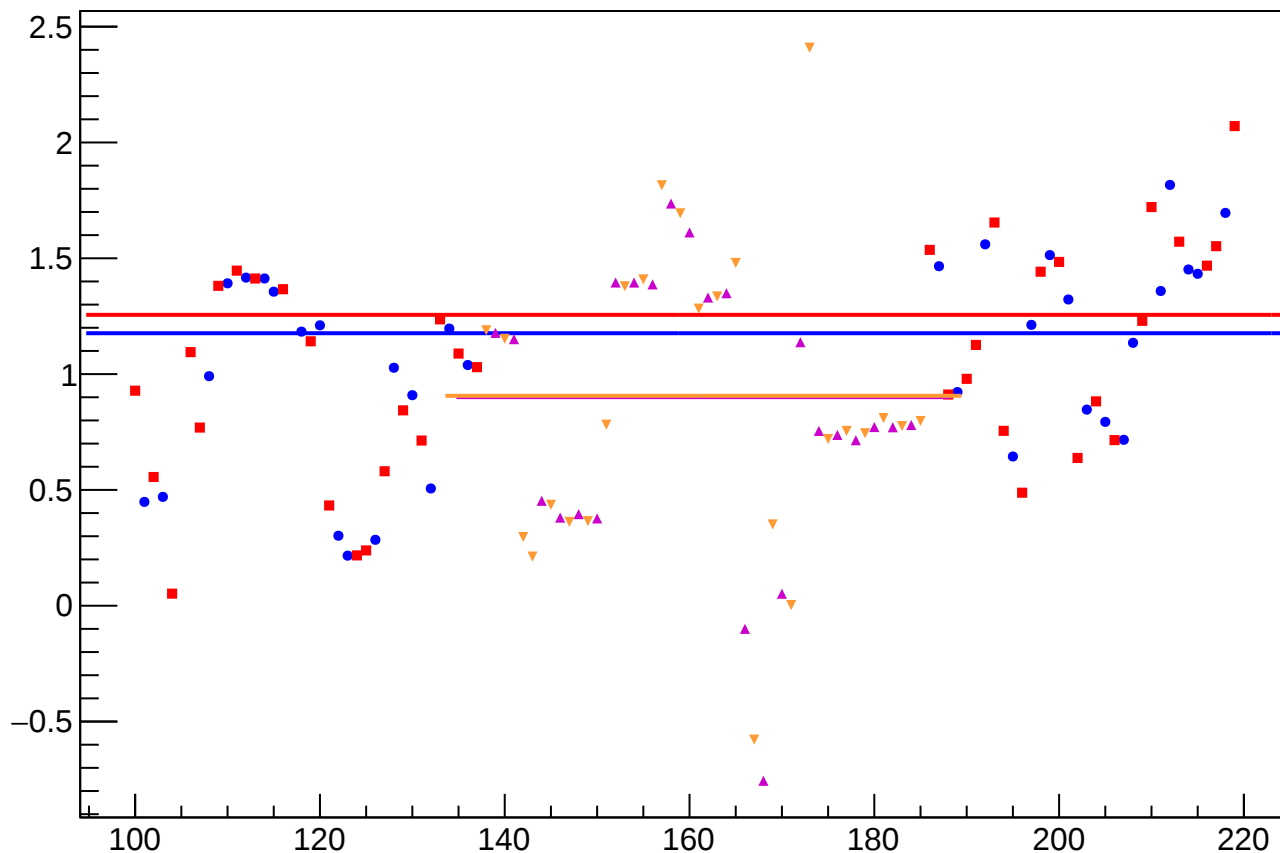
Right: 0.045 $\pm$ 0.000 χ^2 /NDF: 10492159.6/69

In: 0.039 $\pm$ 0.000 χ^2 /NDF: 7057079.1/55

Out: 0.039 $\pm$ 0.000 χ^2 /NDF: 6632283.2/61

All: 0.039 $\pm$ 0.000 χ^2 /NDF: 13689848.2/117

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.177+/-0.000

χ^2/NDF : 49777248801.2/32

Left: 0.904+/-0.000

χ^2/NDF : 151044220035.9/47

Left Out: 0.906+/-0.000

χ^2/NDF : 84108410196.2/24

Right: 1.215+/-0.000

χ^2/NDF : 122432111093.5/69

Right Out: 1.256+/-0.000

χ^2/NDF : 71628392872.4/36

In: 1.070+/-0.000

χ^2/NDF : 126443370526.0/55

Out: 1.114+/-0.000

χ^2/NDF : 171625017946.1/61

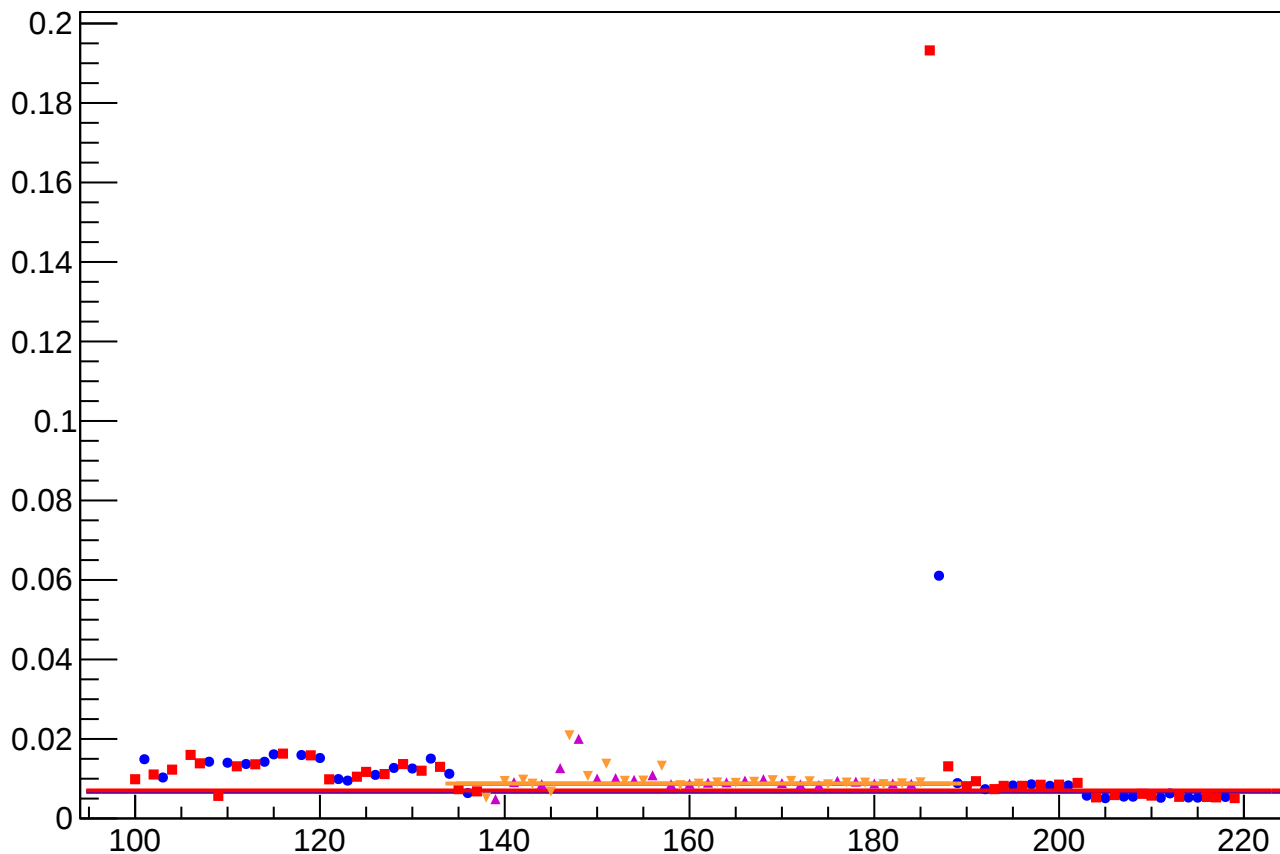
Left In: 0.901+/-0.000

χ^2/NDF : 66932223067.8/22

All: 1.092+/-0.000

χ^2/NDF : 298584190629.3

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3797165.4/32

Left Out: 0.009+/-0.000 χ^2/NDF : 1698526.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4326799.0/36

Left In: 0.009+/-0.000 χ^2/NDF : 1669983.7/22

Left: 0.009+/-0.000 χ^2/NDF : 3369008.8/47

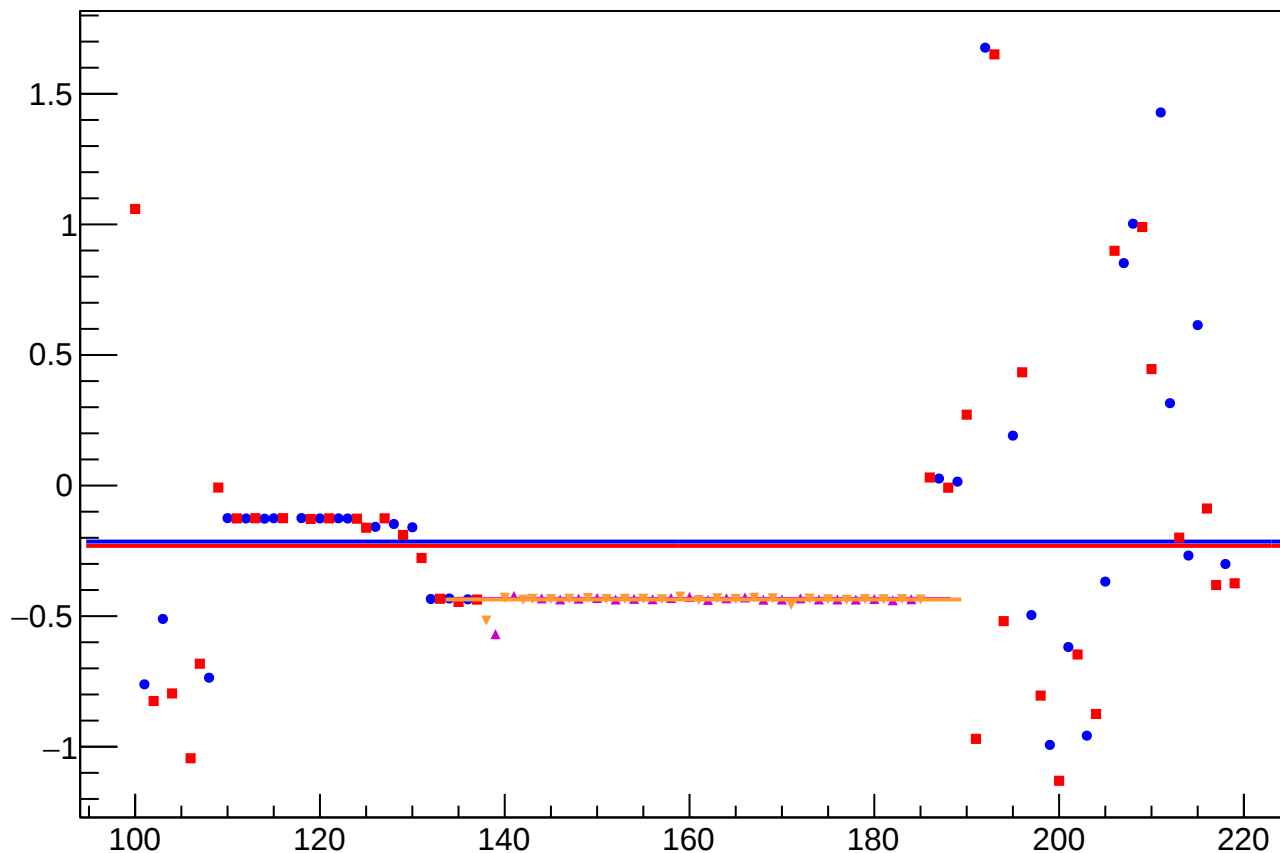
Right: 0.007+/-0.000 χ^2/NDF : 8157152.8/69

In: 0.007+/-0.000 χ^2/NDF : 6505926.7/55

Out: 0.008+/-0.000 χ^2/NDF : 6817749.8/61

All: 0.008+/-0.000 χ^2/NDF : 13357763.6/117

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.214 $\pm$ 0.000 χ^2 /NDF: 4982799606.7/32

Left Out: -0.436 $\pm$ 0.000 χ^2 /NDF: 28776503.9/24

Right Out: -0.231 $\pm$ 0.000 χ^2 /NDF: 3439646750.0/36

Left In: -0.434 $\pm$ 0.000 χ^2 /NDF: 20164730.3/22

Left: -0.435 $\pm$ 0.000 χ^2 /NDF: 49321098.5/47

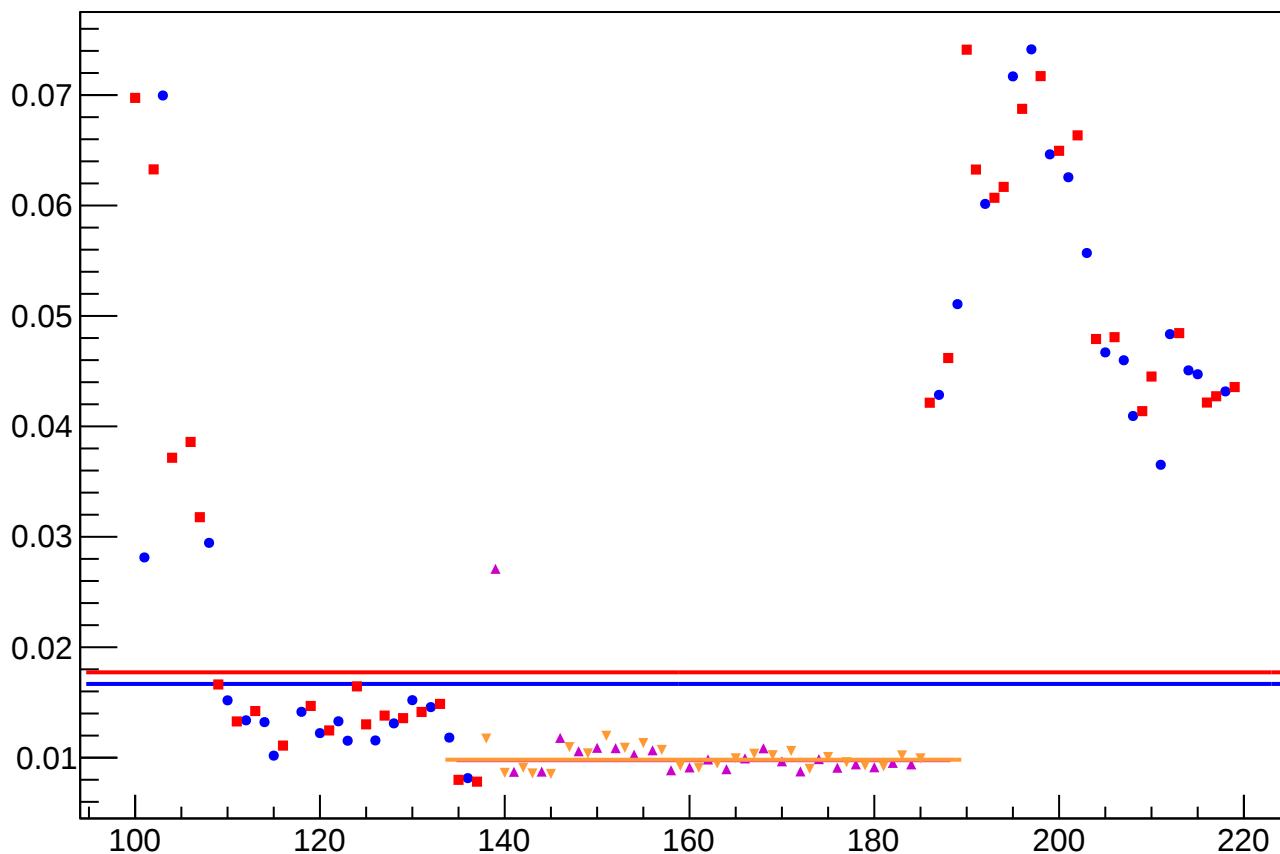
Right: -0.223 $\pm$ 0.000 χ^2 /NDF: 8427202306.6/69

In: -0.392 $\pm$ 0.000 χ^2 /NDF: 6406437741.4/55

Out: -0.400 $\pm$ 0.000 χ^2 /NDF: 4664737091.4/61

All: -0.396 $\pm$ 0.000 χ^2 /NDF: 11077415906.9/117

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 13094813.3/32

Left Out: 0.010+/-0.000 χ^2/NDF : 271172.3/24

Right Out: 0.018+/-0.000 χ^2/NDF : 13840087.9/36

Left In: 0.010+/-0.000 χ^2/NDF : 786577.8/22

Left: 0.010+/-0.000 χ^2/NDF : 1058038.1/47

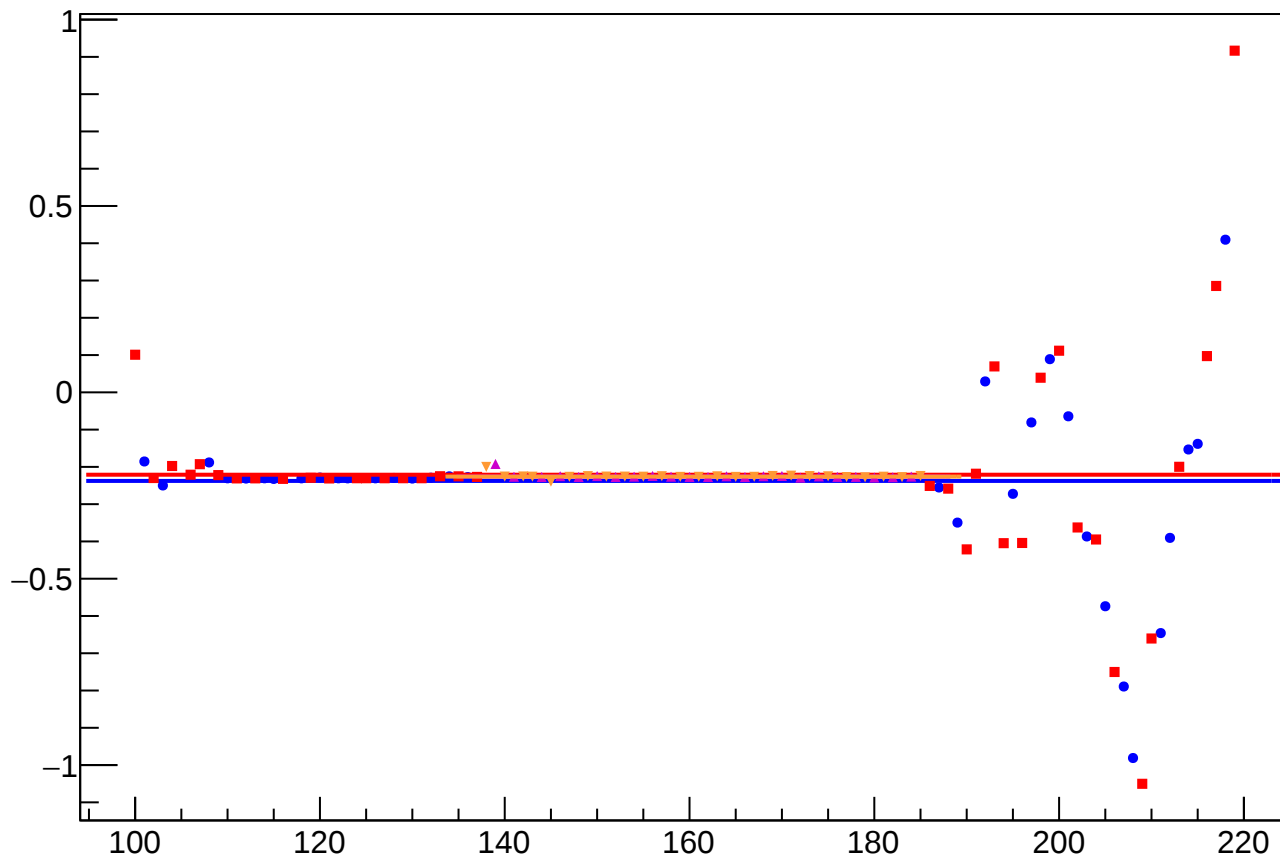
Right: 0.017+/-0.000 χ^2/NDF : 26973641.3/69

In: 0.011+/-0.000 χ^2/NDF : 16658597.5/55

Out: 0.011+/-0.000 χ^2/NDF : 17665913.8/61

All: 0.011+/-0.000 χ^2/NDF : 34326976.6/117

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.238+/-0.000 χ^2/NDF : 33537483794.1/32

Left Out: -0.226+/-0.000 χ^2/NDF : 21207366.3/24

Right Out: -0.221+/-0.000 χ^2/NDF : 46860873277.3/36

Left In: -0.226+/-0.000 χ^2/NDF : 13717302.5/22

Left: -0.226+/-0.000 χ^2/NDF : 34951372.2/47

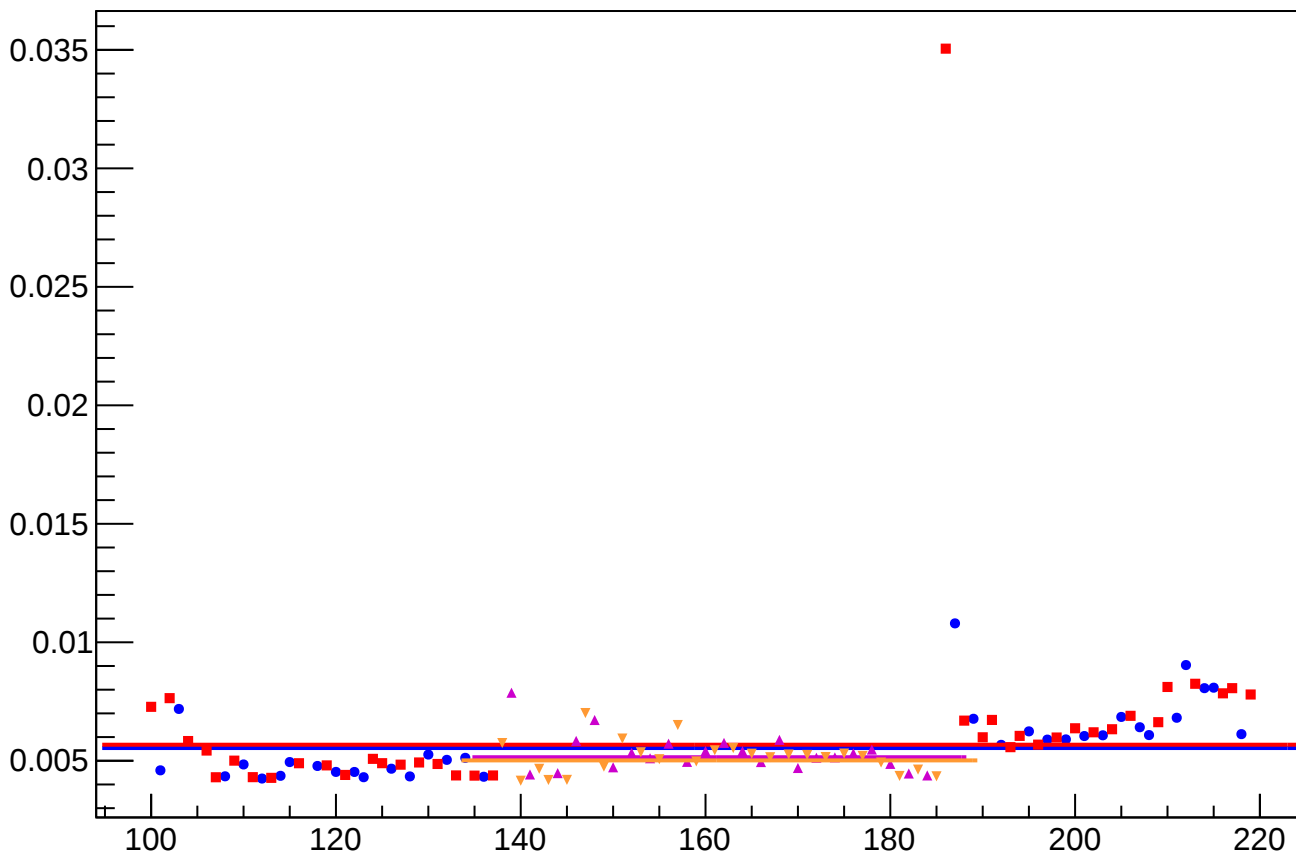
Right: -0.229+/-0.000 χ^2/NDF : 80472409528.7/69

In: -0.231+/-0.000 χ^2/NDF : 33591714924.3/55

Out: -0.224+/-0.000 χ^2/NDF : 46889678260.5/61

All: -0.227+/-0.000 χ^2/NDF : 80514012836.3/118

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1370155.7/32

Left Out: 0.005+/-0.000 χ^2/NDF : 532623.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1980348.1/36

Left In: 0.005+/-0.000 χ^2/NDF : 504040.6/22

Left: 0.005+/-0.000 χ^2/NDF : 1048260.0/47

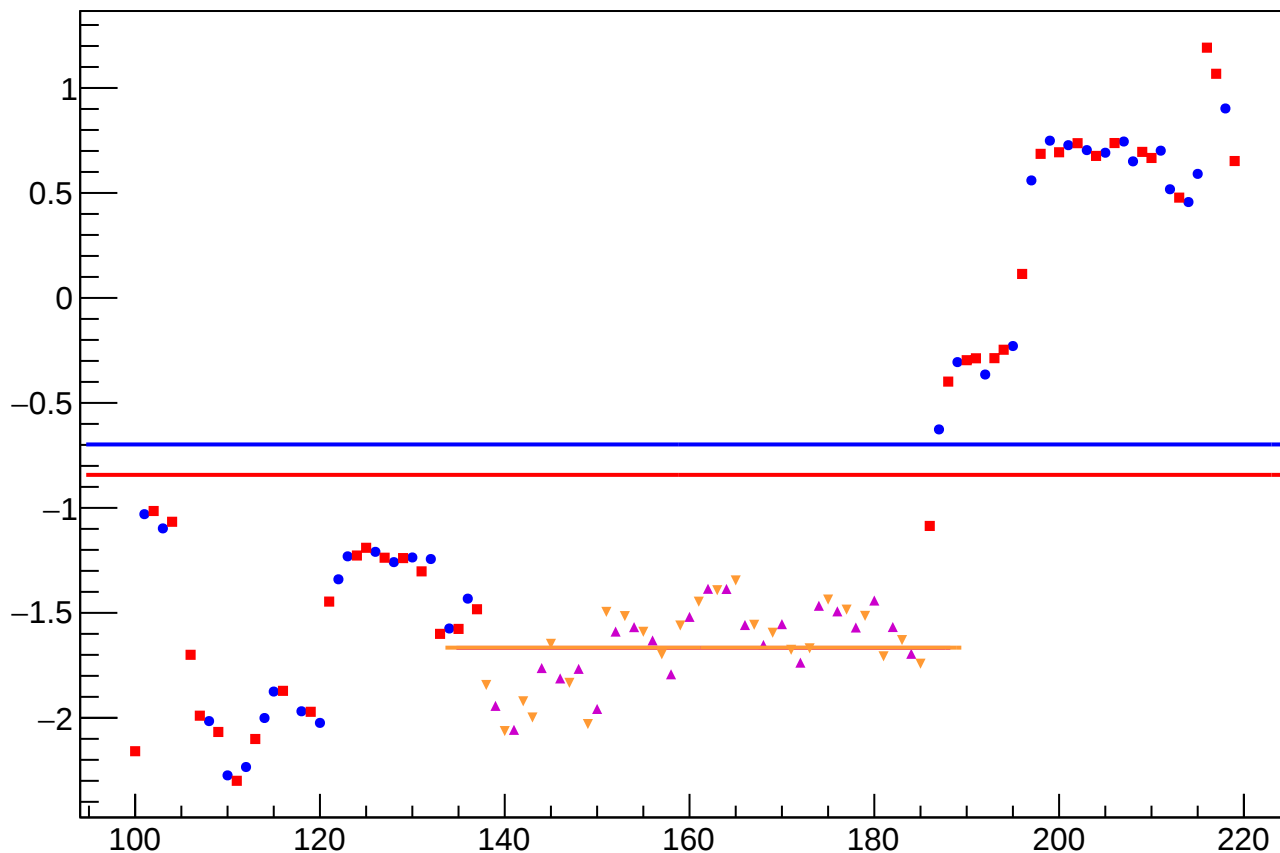
Right: 0.006+/-0.000 χ^2/NDF : 3361001.9/69

In: 0.005+/-0.000 χ^2/NDF : 1960098.4/55

Out: 0.005+/-0.000 χ^2/NDF : 2777433.4/61

All: 0.005+/-0.000 χ^2/NDF : 4738062.3/117

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.698+/-0.000

χ^2/NDF : 254208060194.6/32

Left: -1.666+/-0.000

χ^2/NDF : 32983827631.4/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18368038680.8/24

Right: -0.775+/-0.000

χ^2/NDF : 559054500791.1/69

Right Out: -0.843+/-0.000

χ^2/NDF : 302214633765.0/36

In: -1.316+/-0.000

χ^2/NDF : 409496870463.0/55

Out: -1.354+/-0.000

χ^2/NDF : 433762293181.7/61

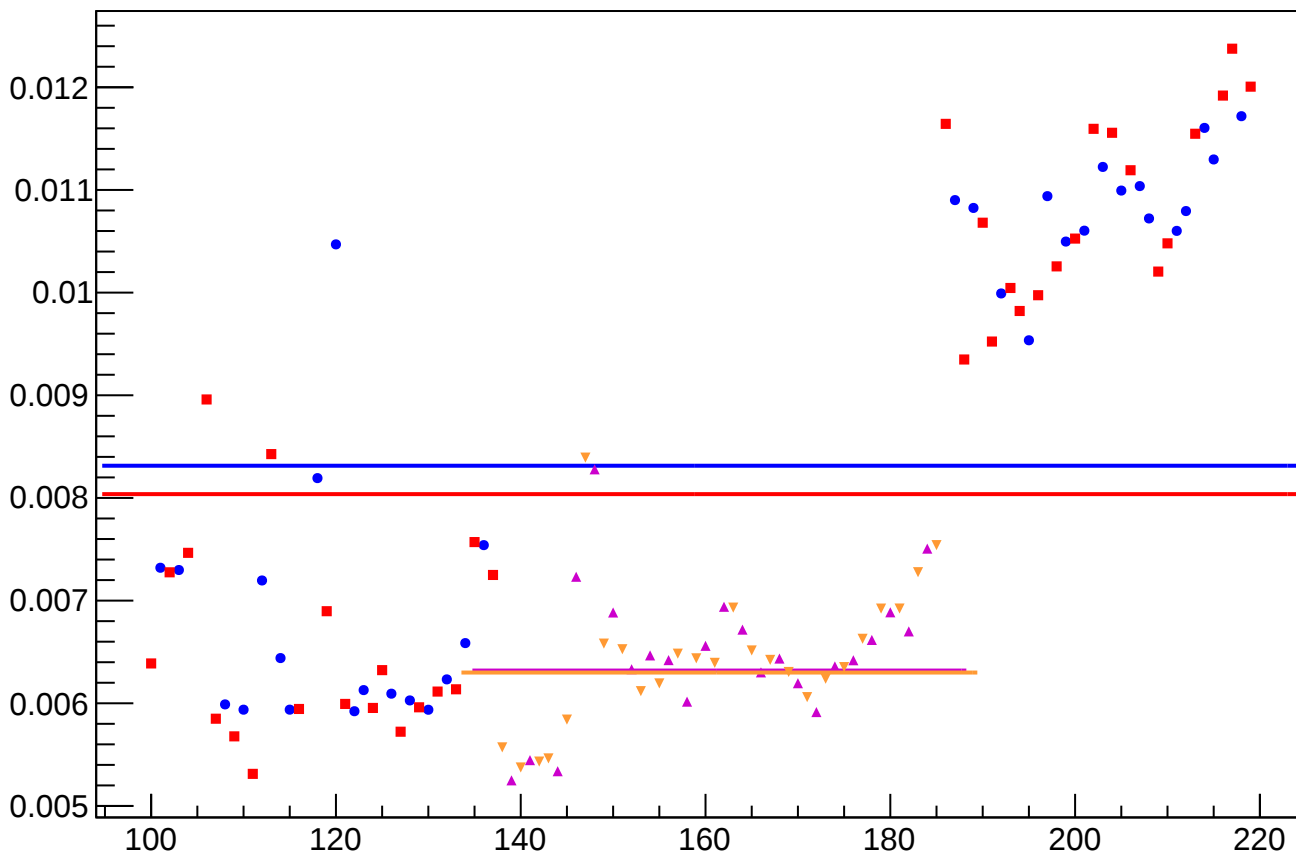
Left In: -1.667+/-0.000

χ^2/NDF : 14615453869.3/22

All: -1.336+/-0.000

χ^2/NDF : 843754521611.0

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2210610.1/32

Left Out: 0.006+/-0.000 χ^2/NDF : 312811.2/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2775244.2/36

Left In: 0.006+/-0.000 χ^2/NDF : 334332.4/22

Left: 0.006+/-0.000 χ^2/NDF : 647302.7/47

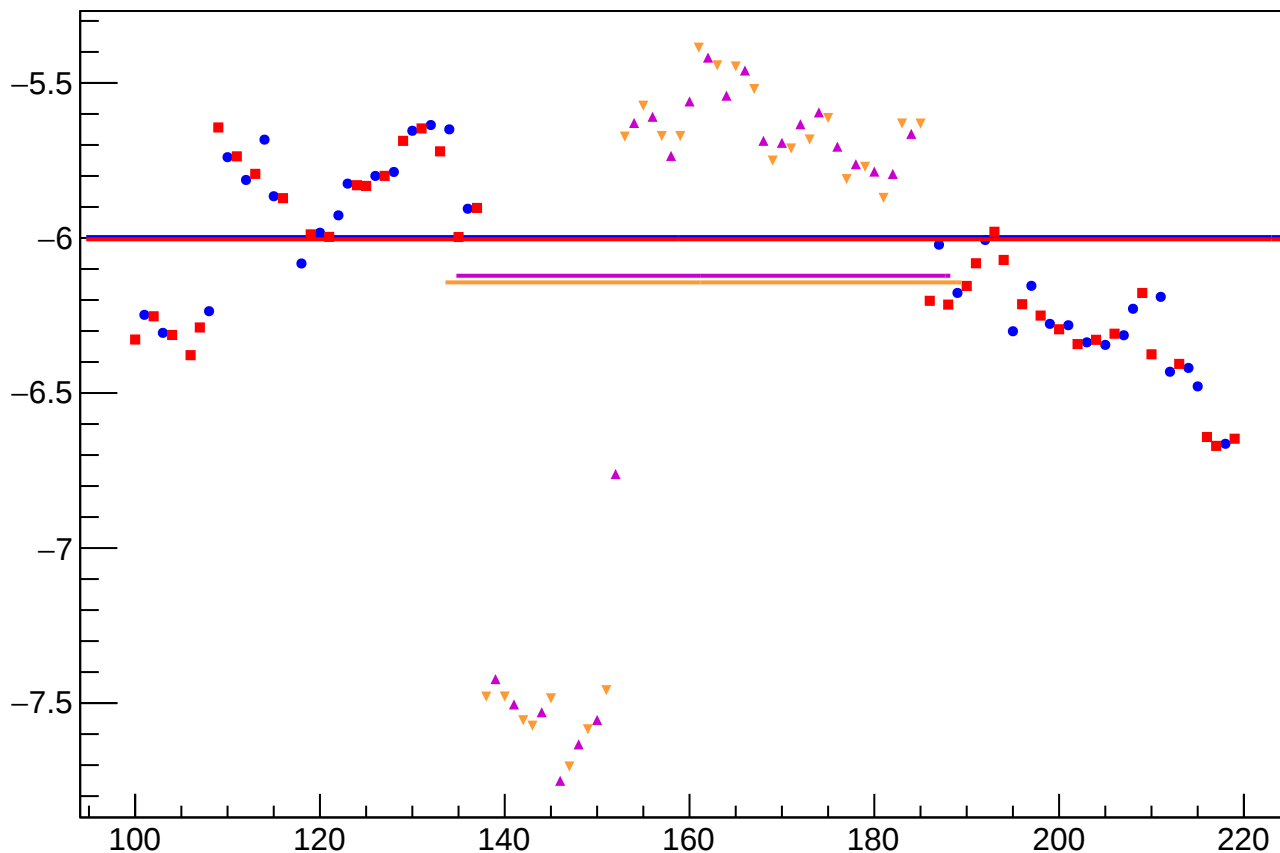
Right: 0.008+/-0.000 χ^2/NDF : 5005038.5/69

In: 0.007+/-0.000 χ^2/NDF : 3737425.1/55

Out: 0.007+/-0.000 χ^2/NDF : 4097450.0/61

All: 0.007+/-0.000 χ^2/NDF : 7839669.5/117

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.997 $\pm$ 0.000 χ^2 /NDF: 19262914798.7/32

Left Out: -6.143 $\pm$ 0.000 χ^2 /NDF: 185721259239.3/24

Right Out: -6.004 $\pm$ 0.000 χ^2 /NDF: 22171013094.8/36

Left In: -6.122 $\pm$ 0.000 χ^2 /NDF: 159909473006.6/22

Left: -6.133 $\pm$ 0.000 χ^2 /NDF: 345689393988.1/47

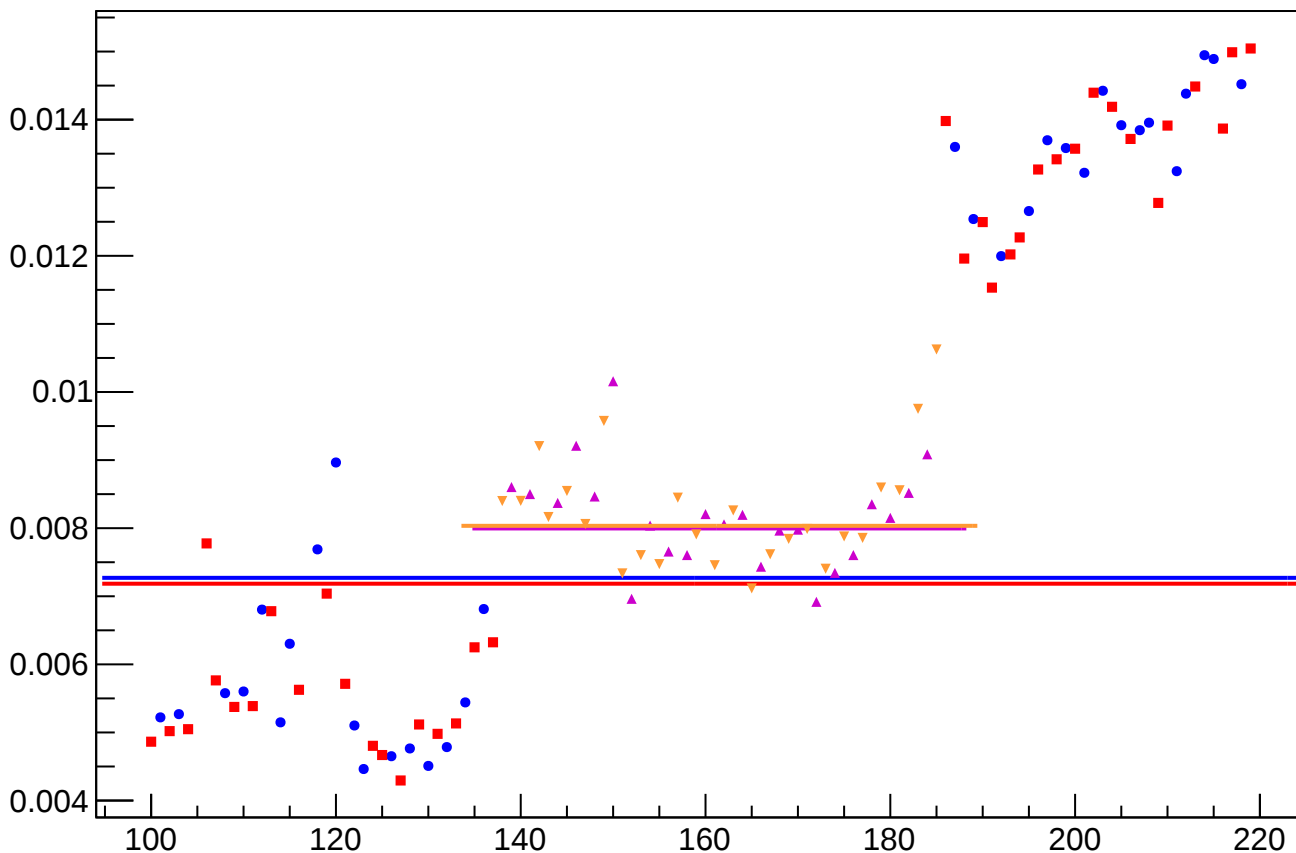
Right: -6.001 $\pm$ 0.000 χ^2 /NDF: 41441099687.8/69

In: -6.058 $\pm$ 0.000 χ^2 /NDF: 181153259030.5/55

Out: -6.070 $\pm$ 0.000 χ^2 /NDF: 210526296354.6/61

All: -6.064 $\pm$ 0.000 χ^2 /NDF: 391716269705.3

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6675960.9/32

Left Out: 0.008+/-0.000 χ^2/NDF :205976.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 6980077.6/36

Left In: 0.008+/-0.000 χ^2/NDF :220203.0/22

Left: 0.008+/-0.000 χ^2/NDF : 426558.9/47

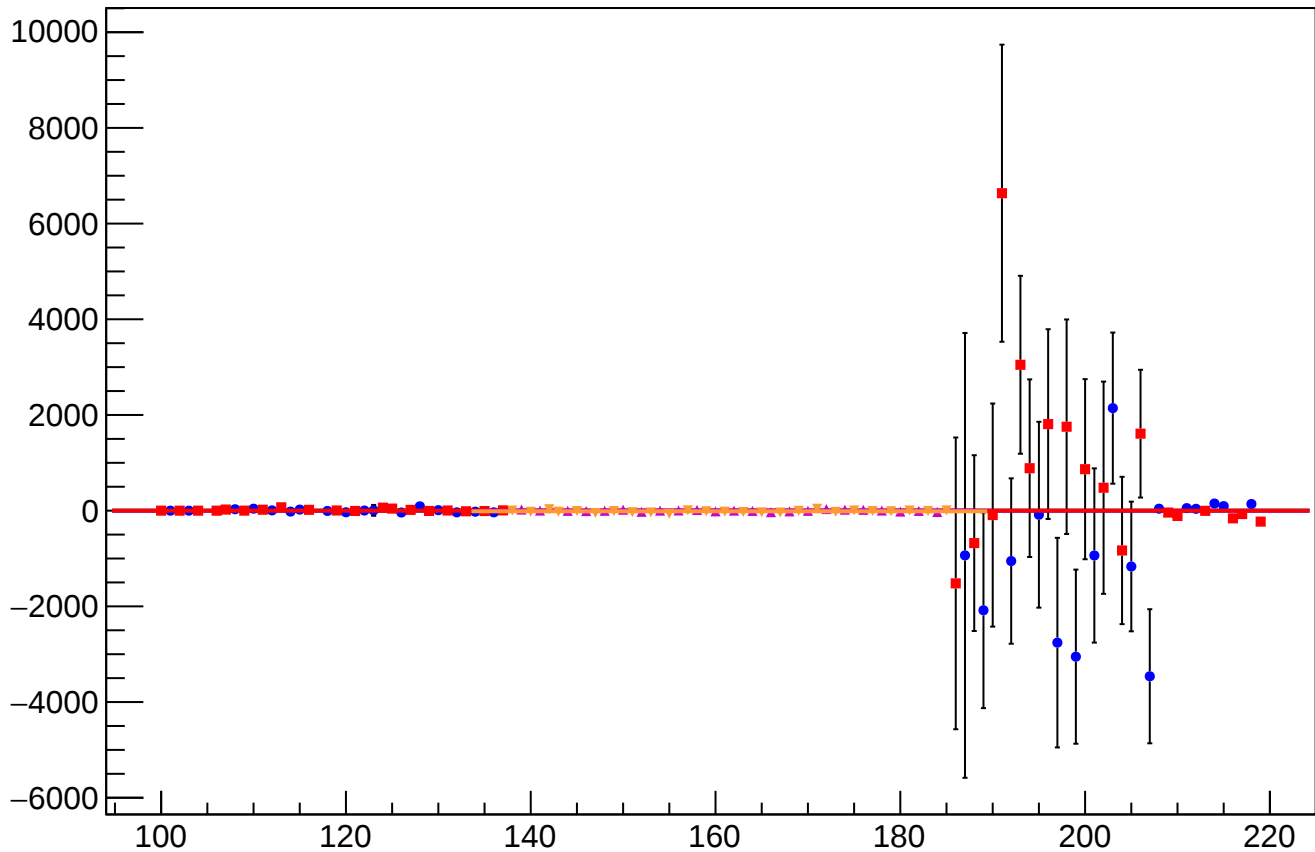
Right: 0.007+/-0.000 χ^2/NDF : 13658083.1/69

In: 0.008+/-0.000 χ^2/NDF :7030186.3/55

Out: 0.008+/-0.000 χ^2/NDF :7383194.2/61

All: 0.008+/-0.000 χ^2/NDF : 14414226.4/117

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 57.0/32$

Left Out: -13.472 ± 2.796 $\chi^2/\text{NDF}: 58.5/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 63.4/36$

Left In: 0.489 ± 2.905 $\chi^2/\text{NDF}: 28.7/22$

Left: -6.758 ± 2.015 $\chi^2/\text{NDF}: 99.2/47$

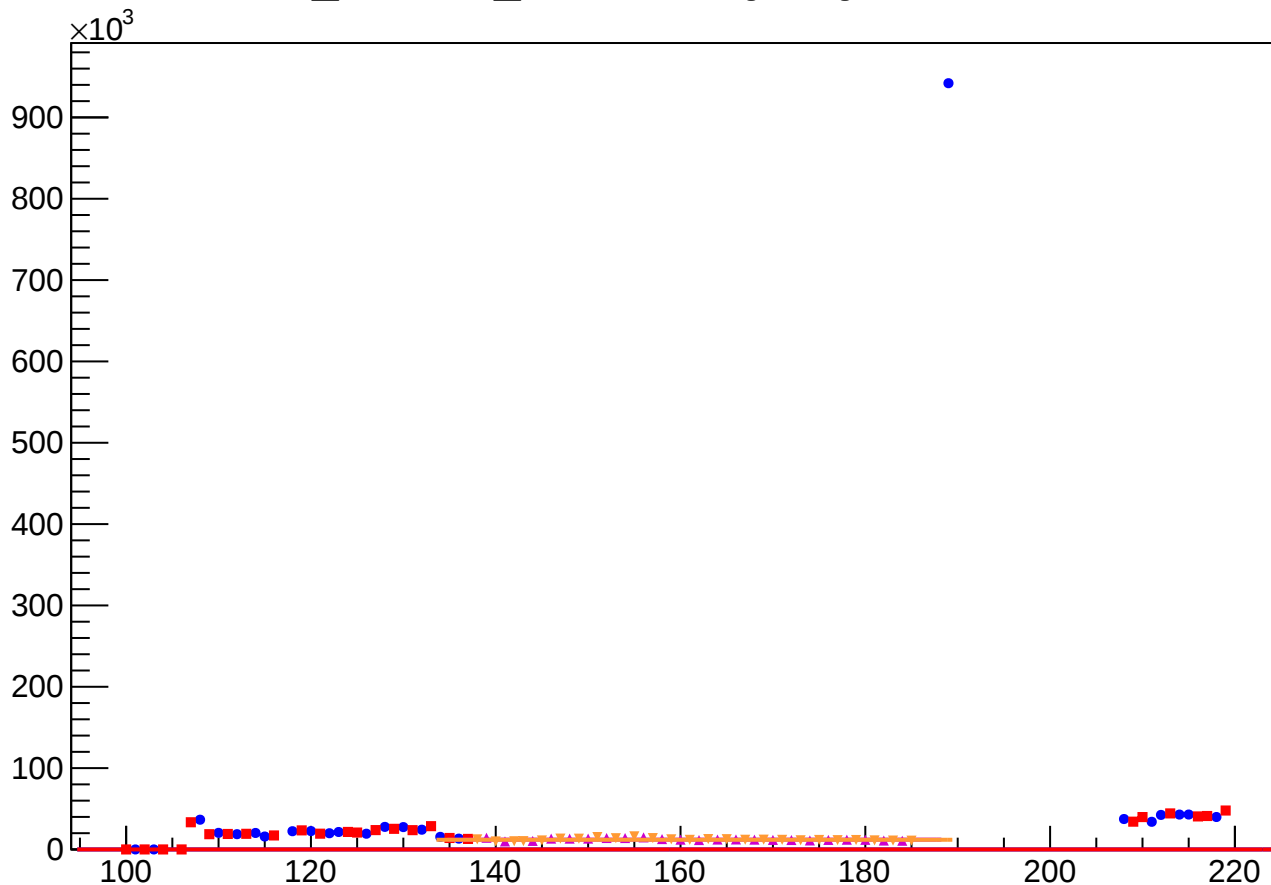
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 120.9/69$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 85.7/55$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 145.1/61$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 231.3/117$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.673+/-0.012 χ^2/NDF : 19678367.1/23

Left Out: 11909.835+/-1.977 χ^2/NDF : 475310.2/24

Right Out: 18.339+/-0.011 χ^2/NDF : 19897528.6/24

Left In: 12064.321+/-2.054 χ^2/NDF : 372586.0/22

Left: 11984.125+/-1.425 χ^2/NDF : 850831.6/47

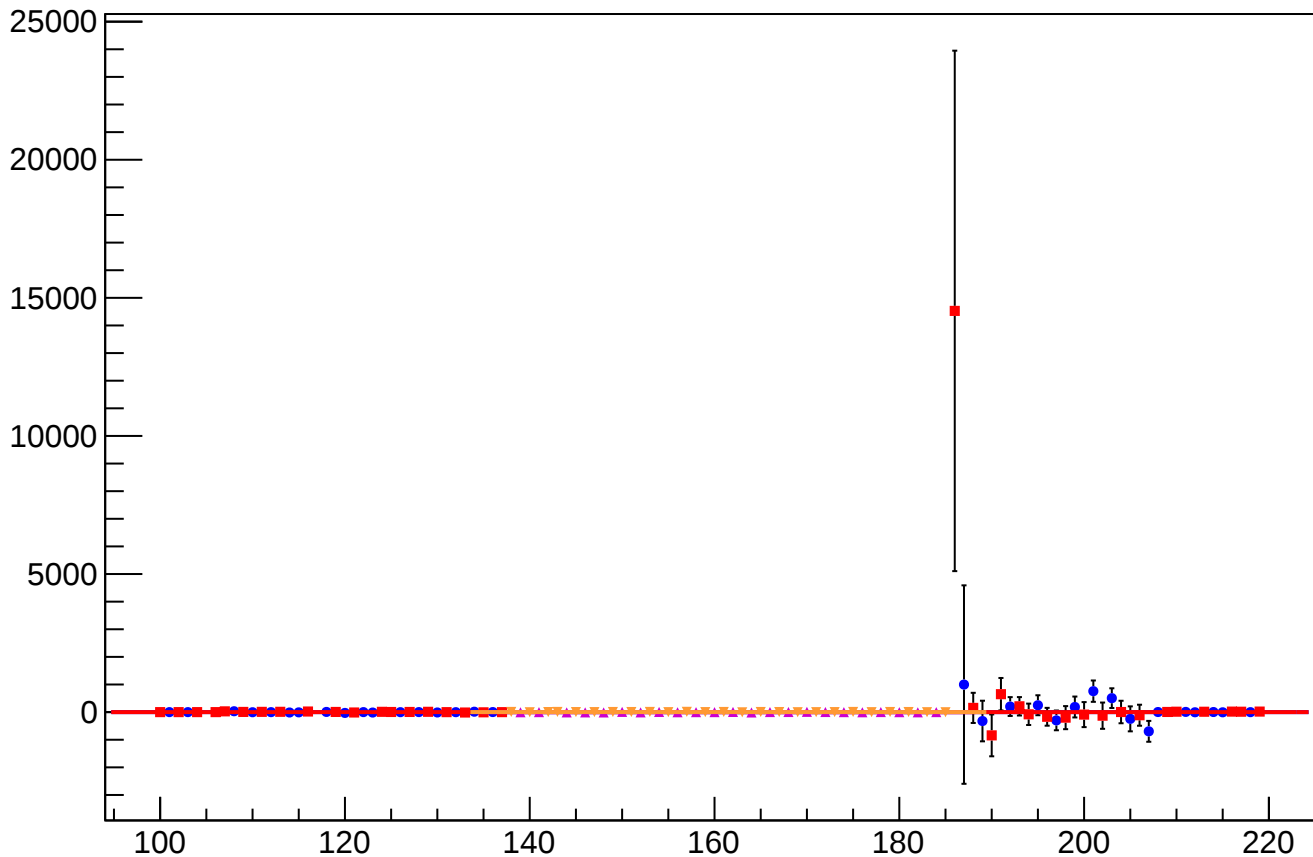
Right: 18.494+/-0.008 χ^2/NDF : 39576296.0/48

In: 19.102+/-0.012 χ^2/NDF : 54428671.2/46

Out: 18.732+/-0.011 χ^2/NDF : 56539799.9/49

All: 18.903+/-0.008 χ^2/NDF : 110968962.1/96

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 29.5/32

Left Out: 1.675 $\pm$ 1.021 χ^2 /NDF:17.9/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 59.3/36

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

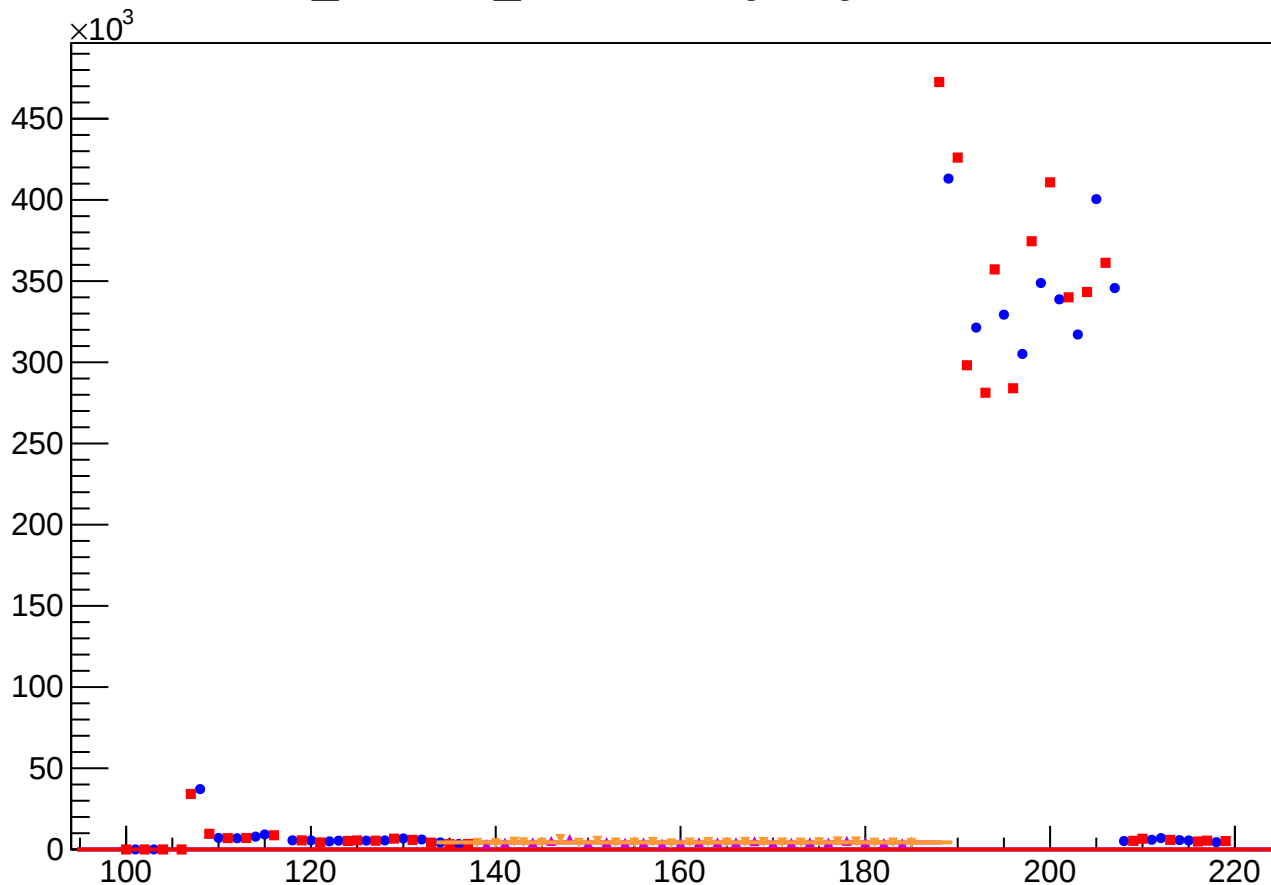
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 90.2/69

In: 0.001 $\pm$ 0.009 χ^2 /NDF:65.8/55

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:80.0/61

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 147.1/117

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 10.005 $\pm$ 0.007 χ^2 /NDF: 33068899.4/31

Left Out: 4350.545 $\pm$ 0.722 χ^2 /NDF:384749.0/24

Right Out: 9.915 $\pm$ 0.006 χ^2 /NDF: 34667462.6/35

Left In: 4314.568 $\pm$ 0.738 χ^2 /NDF:534594.3/22

Left: 4332.940 $\pm$ 0.516 χ^2 /NDF: 920558.3/47

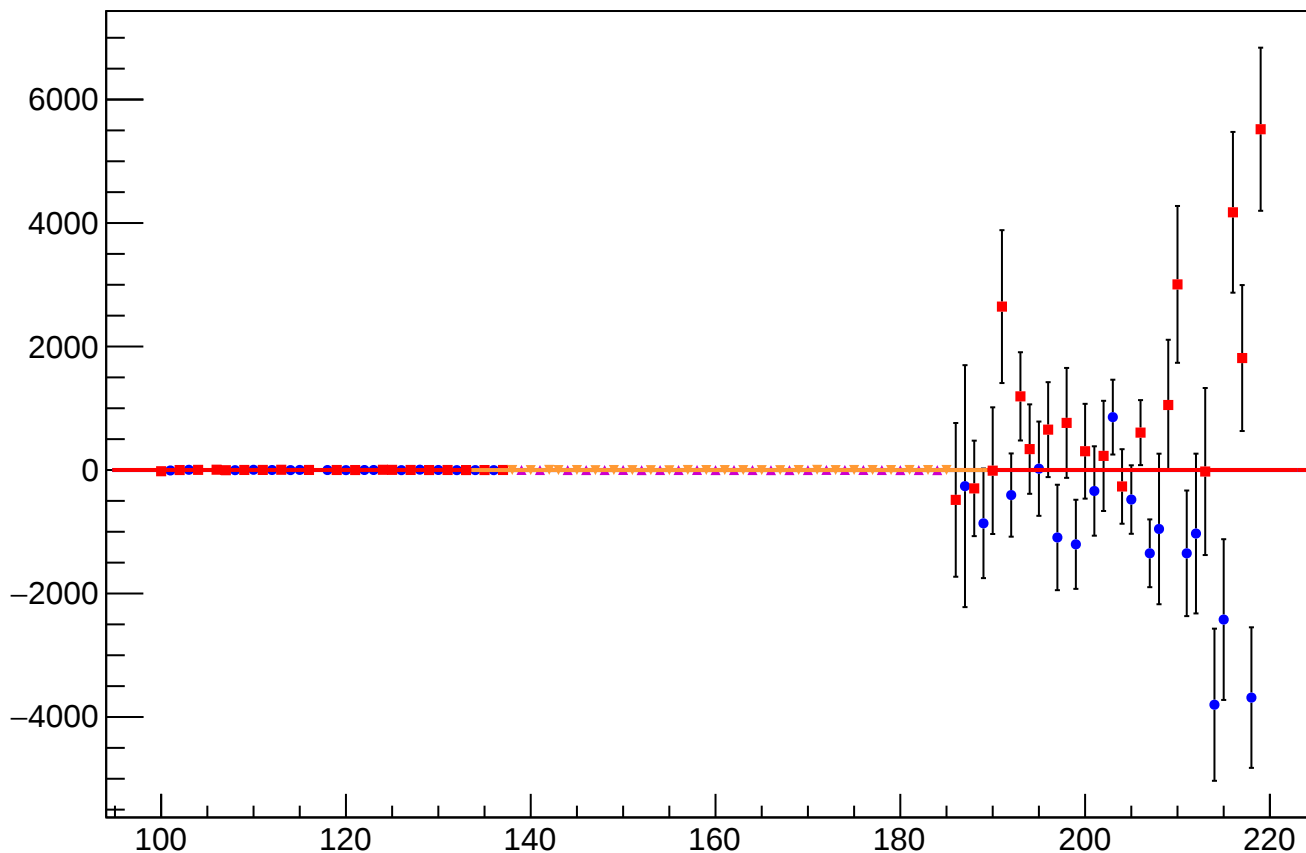
Right: 9.957 $\pm$ 0.004 χ^2 /NDF: 67736462.8/67

In: 10.340 $\pm$ 0.007 χ^2 /NDF:67663867.6/54

Out: 10.227 $\pm$ 0.006 χ^2 /NDF:71196173.5/60

All: 10.280 $\pm$ 0.004 χ^2 /NDF: 138860201.3/117

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.707 ± 0.485 χ^2/NDF : 63.7/32

Left Out: -0.774 ± 0.164 χ^2/NDF : 58.4/24

Right Out: 0.765 ± 0.502 χ^2/NDF : 59.5/36

Left In: 0.020 ± 0.170 χ^2/NDF : 29.2/22

Left: -0.391 ± 0.118 χ^2/NDF : 98.9/47

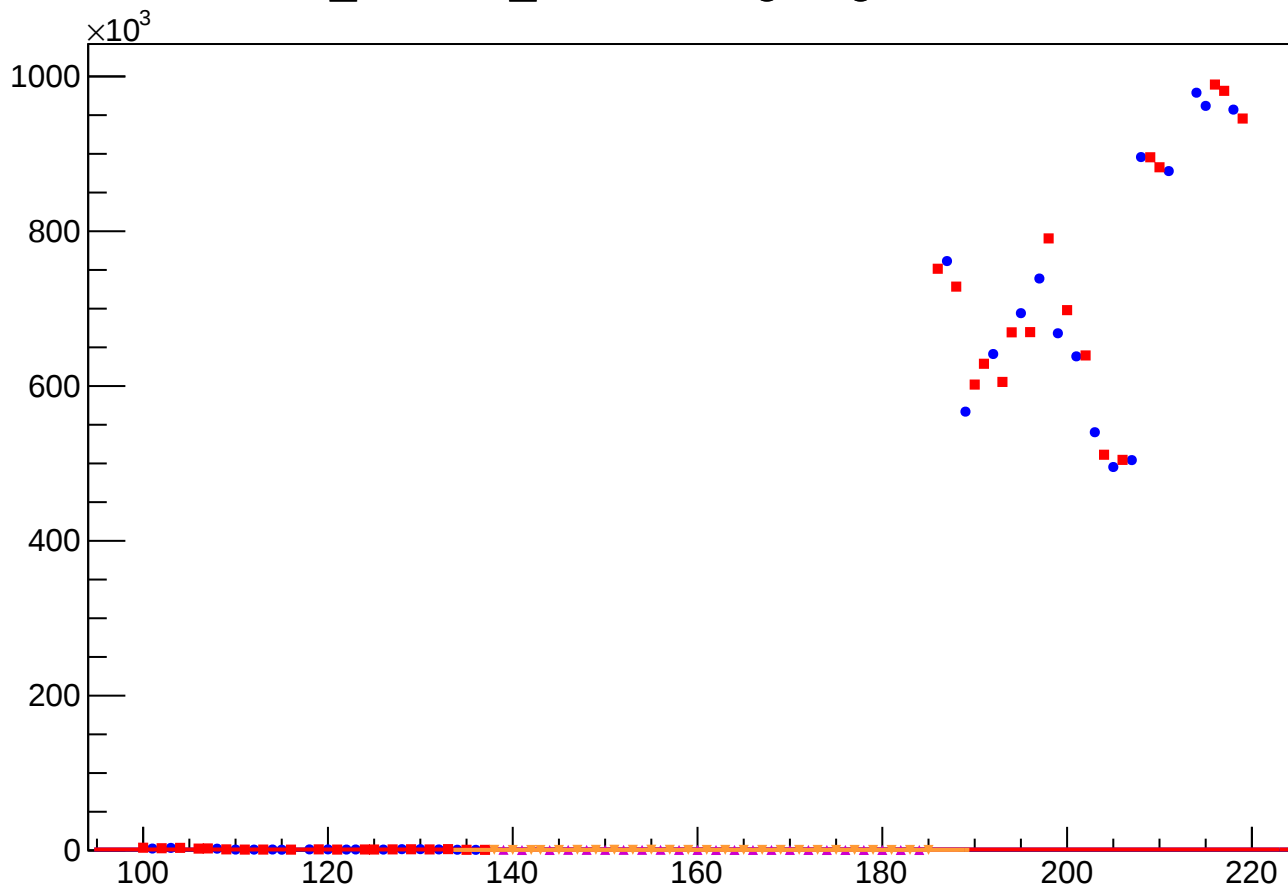
Right: 0.004 ± 0.349 χ^2/NDF : 127.6/69

In: -0.059 ± 0.161 χ^2/NDF : 94.9/55

Out: -0.626 ± 0.156 χ^2/NDF : 126.4/61

All: -0.350 ± 0.112 χ^2/NDF : 227.7/117

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1167.405 $\pm$ 0.343 χ^2 /NDF: 19026450.6/31

Left Out: 700.797 $\pm$ 0.116 χ^2 /NDF: 392521.4/24

Right Out: 1252.677 $\pm$ 0.355 χ^2 /NDF: 19391376.6/35

Left In: 706.950 $\pm$ 0.120 χ^2 /NDF: 338177.1/22

Left: 703.766 $\pm$ 0.084 χ^2 /NDF: 732052.1/47

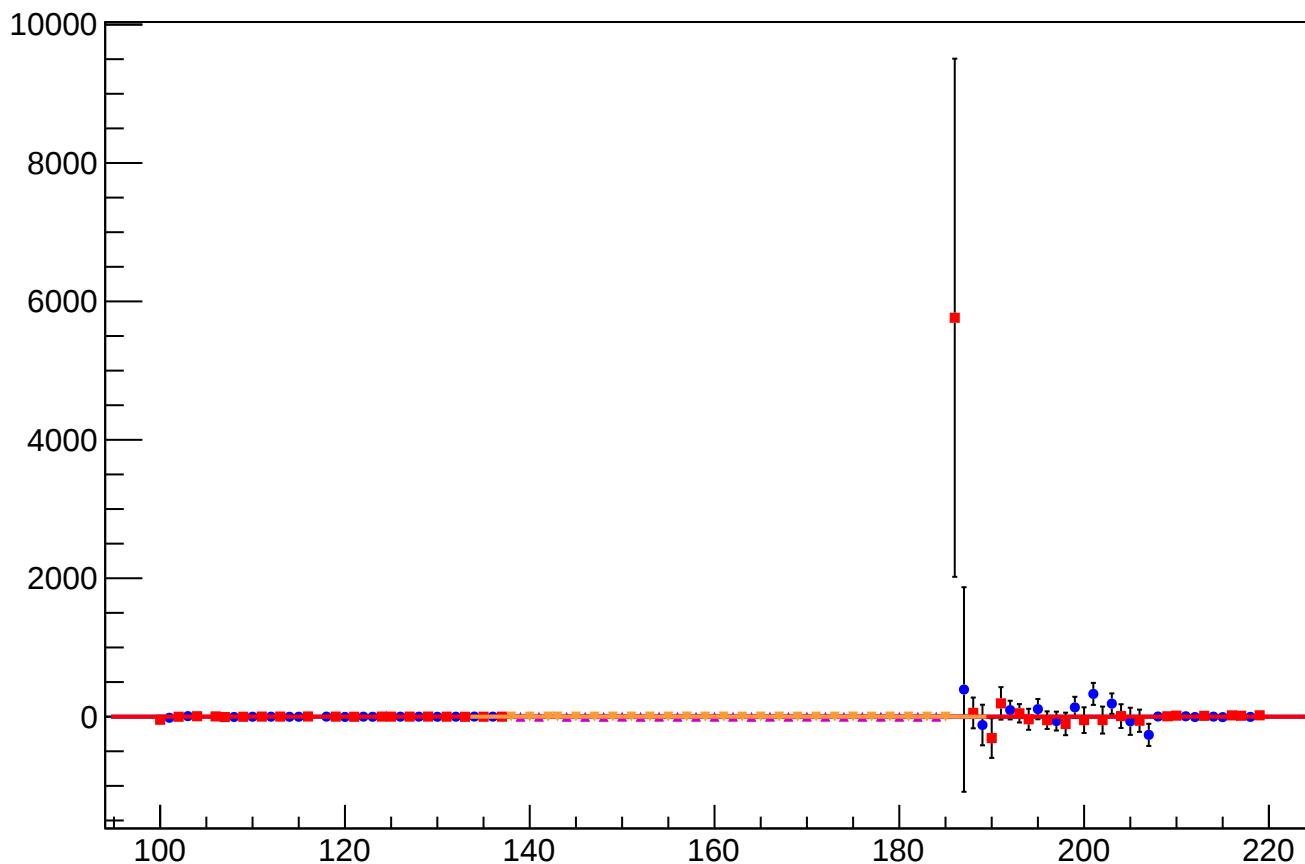
Right: 1208.566 $\pm$ 0.247 χ^2 /NDF: 38447667.9/67

In: 757.394 $\pm$ 0.114 χ^2 /NDF: 20969749.2/54

Out: 754.177 $\pm$ 0.110 χ^2 /NDF: 21966485.7/60

All: 755.741 $\pm$ 0.079 χ^2 /NDF: 42936647.6/117

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.072 ± 0.268 χ^2/NDF : 35.5/32

Left Out: 0.236 ± 0.122 χ^2/NDF : 17.6/24

Right Out: -0.027 ± 0.263 χ^2/NDF : 76.1/36

Left In: -0.115 ± 0.125 χ^2/NDF : 35.0/22

Left: 0.065 ± 0.088 χ^2/NDF : 56.6/47

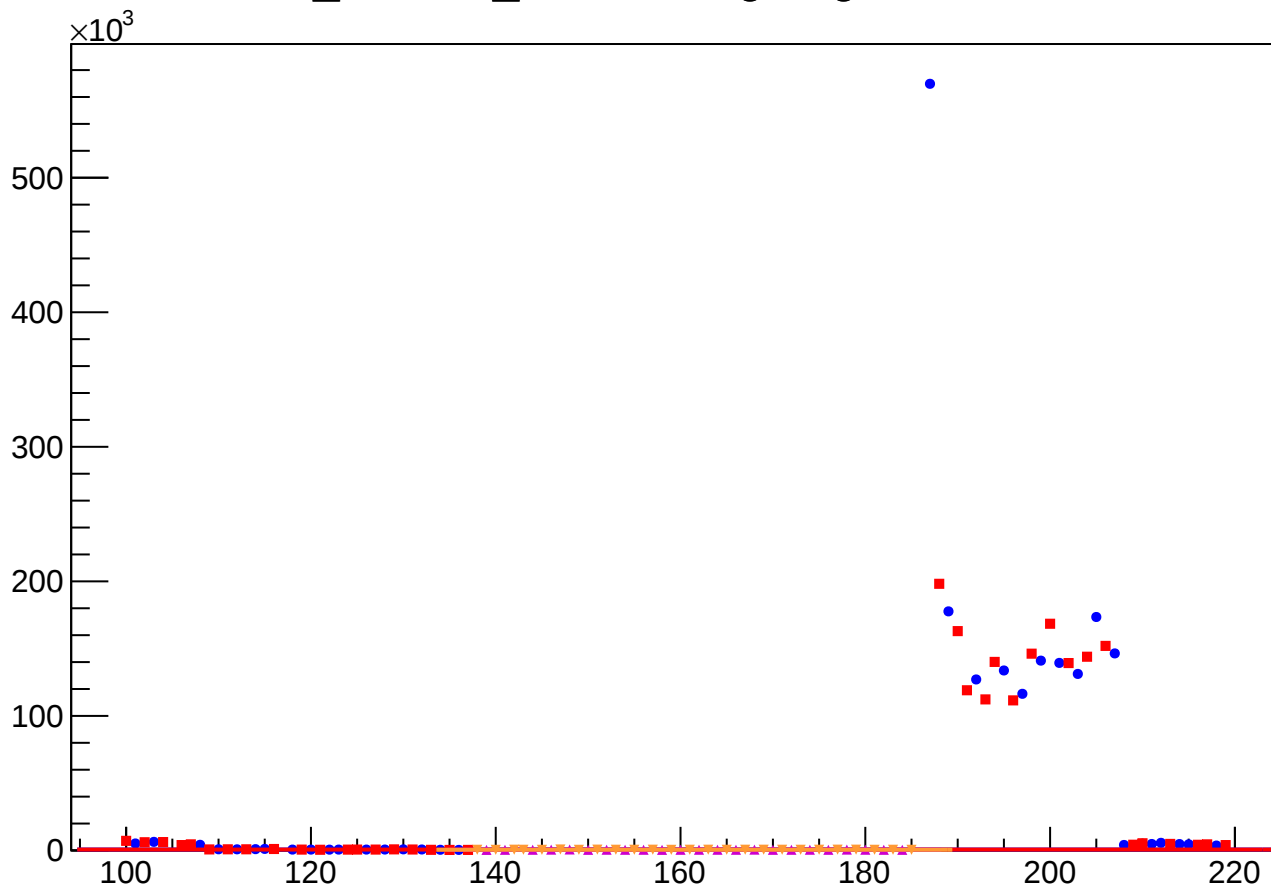
Right: -0.049 ± 0.188 χ^2/NDF : 111.6/69

In: -0.108 ± 0.114 χ^2/NDF : 70.5/55

Out: 0.189 ± 0.111 χ^2/NDF : 94.5/61

All: 0.044 ± 0.079 χ^2/NDF : 168.5/117

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 671.433+/-0.190 χ^2/NDF : 23316874.0/32

Left Out: 522.416+/-0.087 χ^2/NDF : 331573.1/24

Right Out: 661.976+/-0.186 χ^2/NDF : 24839061.1/35

Left In: 519.909+/-0.089 χ^2/NDF : 444746.3/22

Left: 521.193+/-0.062 χ^2/NDF : 776728.3/47

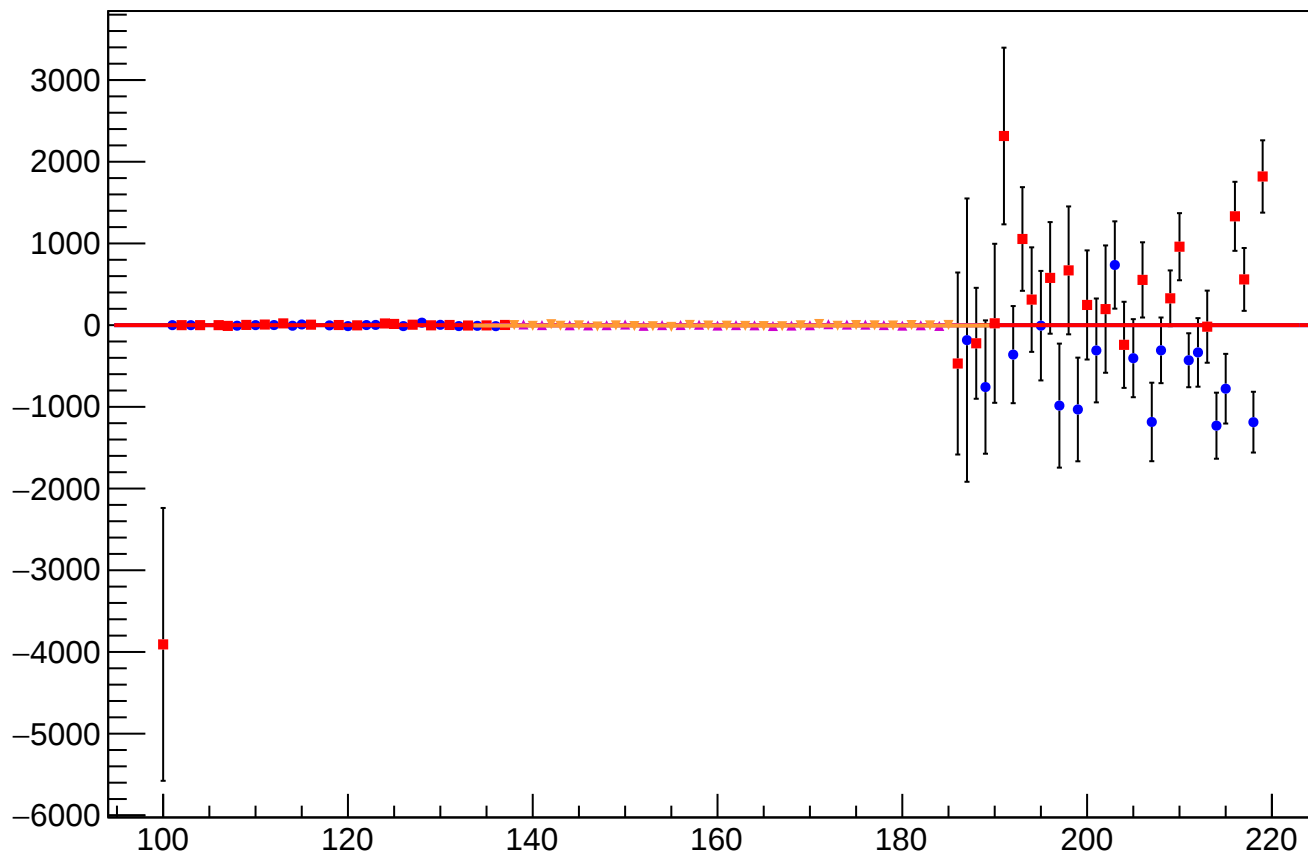
Right: 666.604+/-0.133 χ^2/NDF : 48157202.5/68

In: 547.085+/-0.080 χ^2/NDF : 24284544.5/55

Out: 547.318+/-0.079 χ^2/NDF : 25633949.6/60

All: 547.204+/-0.056 χ^2/NDF : 49918498.5/117

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 55.8/32

Left Out: -4.474 ± 0.956 χ^2/NDF : 58.2/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 63.3/36

Left In: 0.193 ± 0.990 χ^2/NDF : 29.2/22

Left: -2.224 ± 0.688 χ^2/NDF : 99.0/47

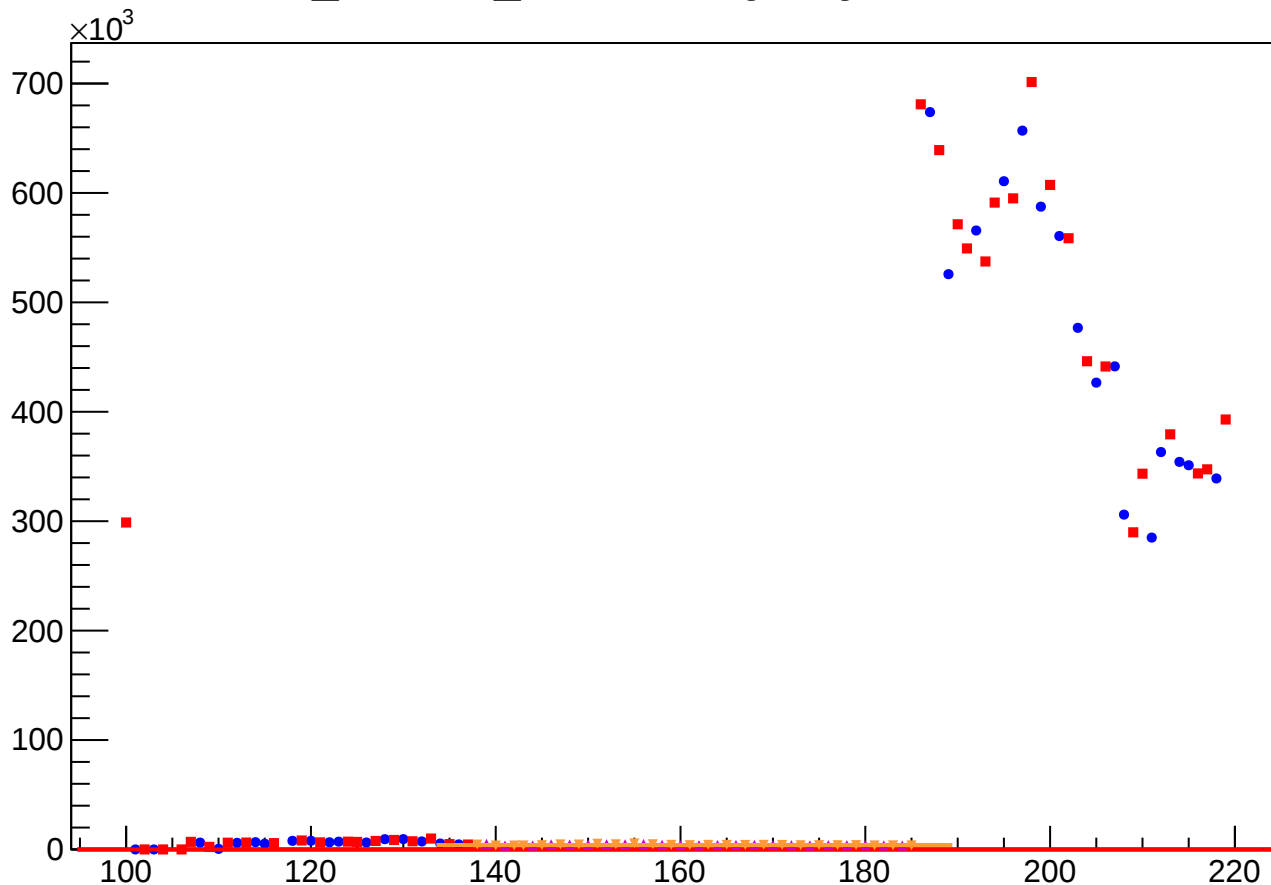
Right: 0.004 ± 0.014 χ^2/NDF : 122.0/69

In: -0.022 ± 0.021 χ^2/NDF : 85.1/55

Out: 0.025 ± 0.020 χ^2/NDF : 143.7/61

All: 0.003 ± 0.014 χ^2/NDF : 231.5/117

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.347 $\pm$ 0.015 χ^2 /NDF: 33266045.6/32

Left Out: 4074.257 $\pm$ 0.676 χ^2 /NDF: 416916.0/24

Right Out: 17.278 $\pm$ 0.014 χ^2 /NDF: 35531892.1/36

Left In: 4113.744 $\pm$ 0.700 χ^2 /NDF: 354965.8/22

Left: 4093.298 $\pm$ 0.486 χ^2 /NDF: 773528.6/47

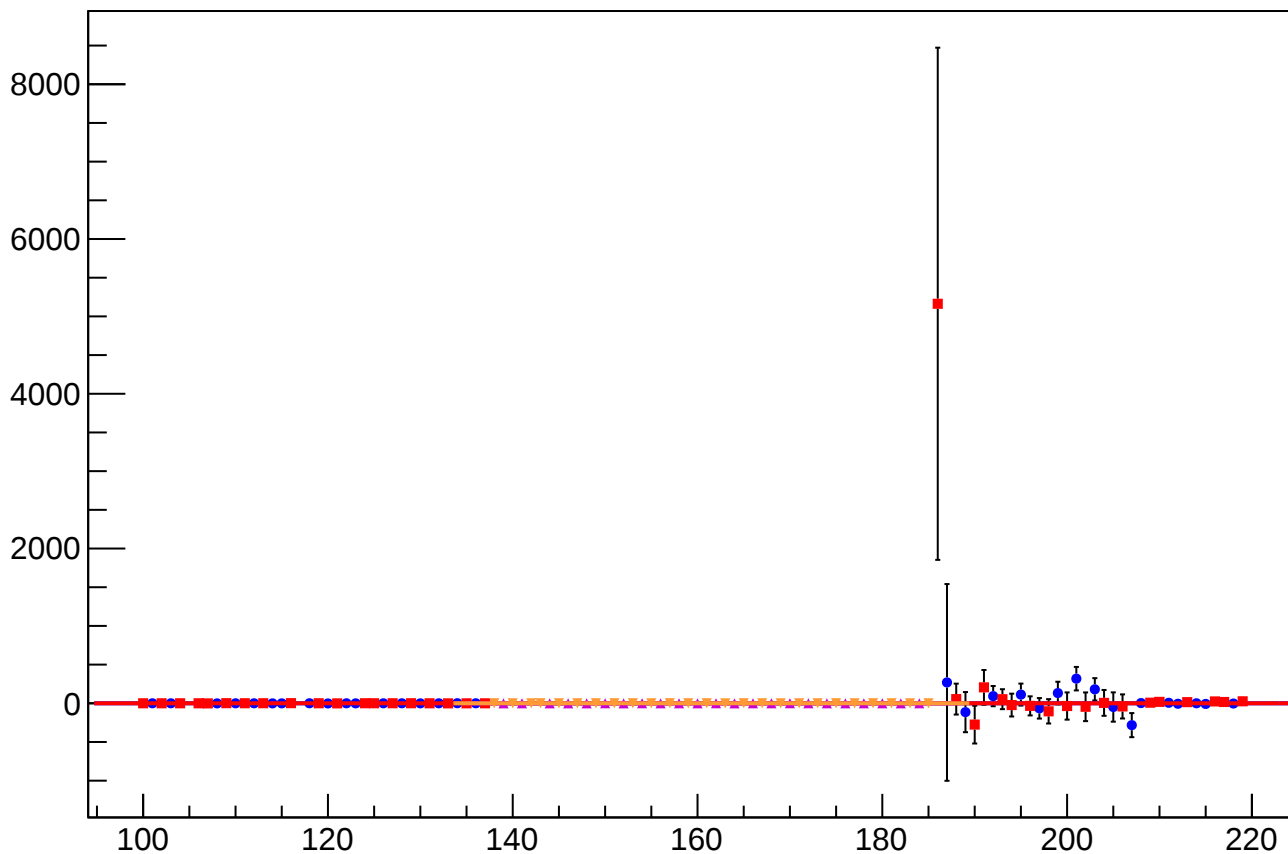
Right: 17.310 $\pm$ 0.010 χ^2 /NDF: 68797949.3/69

In: 19.153 $\pm$ 0.015 χ^2 /NDF: 67835102.4/55

Out: 19.015 $\pm$ 0.014 χ^2 /NDF: 71984700.6/61

All: 19.080 $\pm$ 0.010 χ^2 /NDF: 139819849.3/111

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 30.7/32

Left Out: 0.151 $\pm$ 0.076 χ^2 /NDF:16.8/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 78.1/36

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

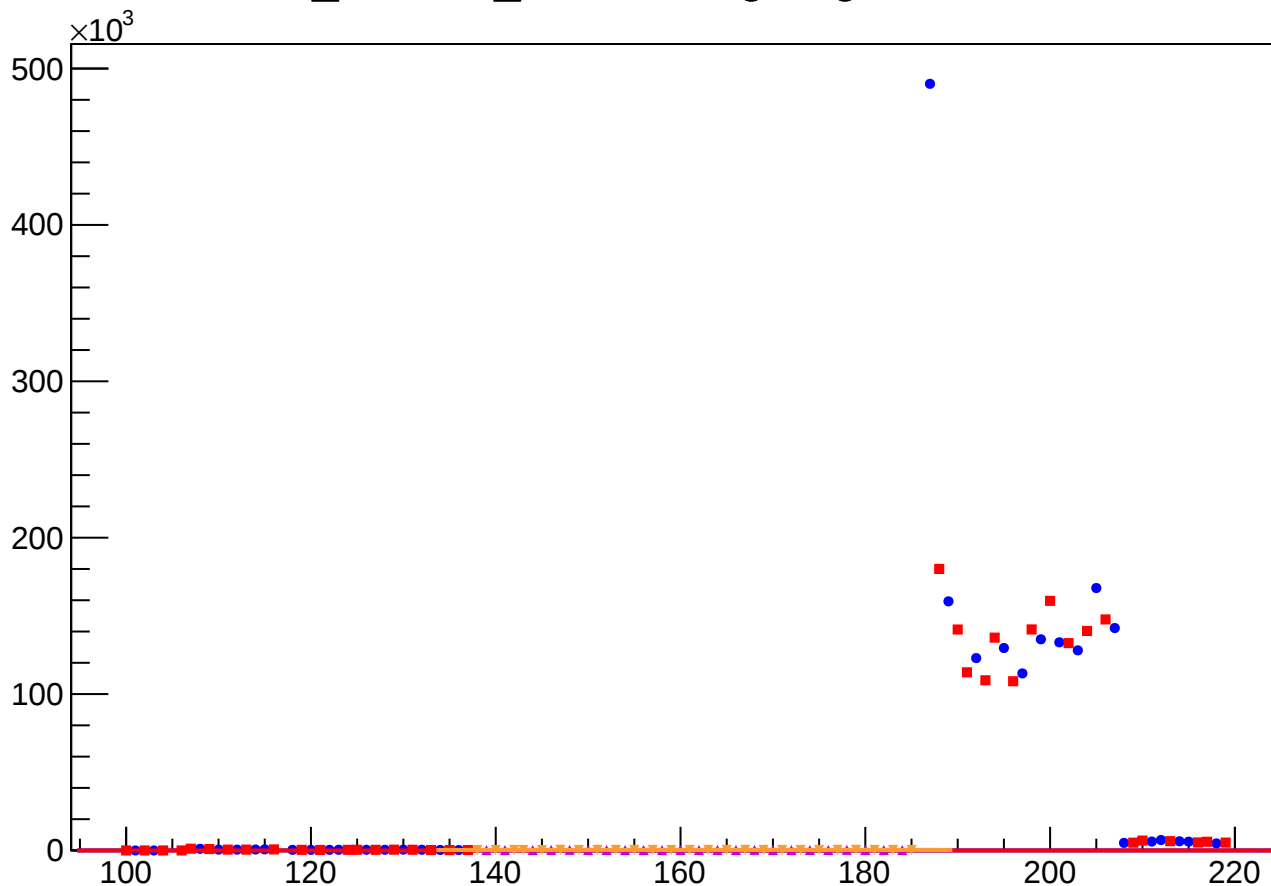
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 108.9/69

In: 0.000 $\pm$ 0.002 χ^2 /NDF:66.4/55

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:98.8/61

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 165.4/117

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.702 ± 0.001 $\chi^2/\text{NDF}: 33462675.7/32$

Left Out: 325.469 ± 0.054 $\chi^2/\text{NDF}: 350046.8/24$

Right Out: 1.731 ± 0.001 $\chi^2/\text{NDF}: 34469594.3/35$

Left In: 325.201 ± 0.055 $\chi^2/\text{NDF}: 428069.7/22$

Left: 325.339 ± 0.039 $\chi^2/\text{NDF}: 778128.6/47$

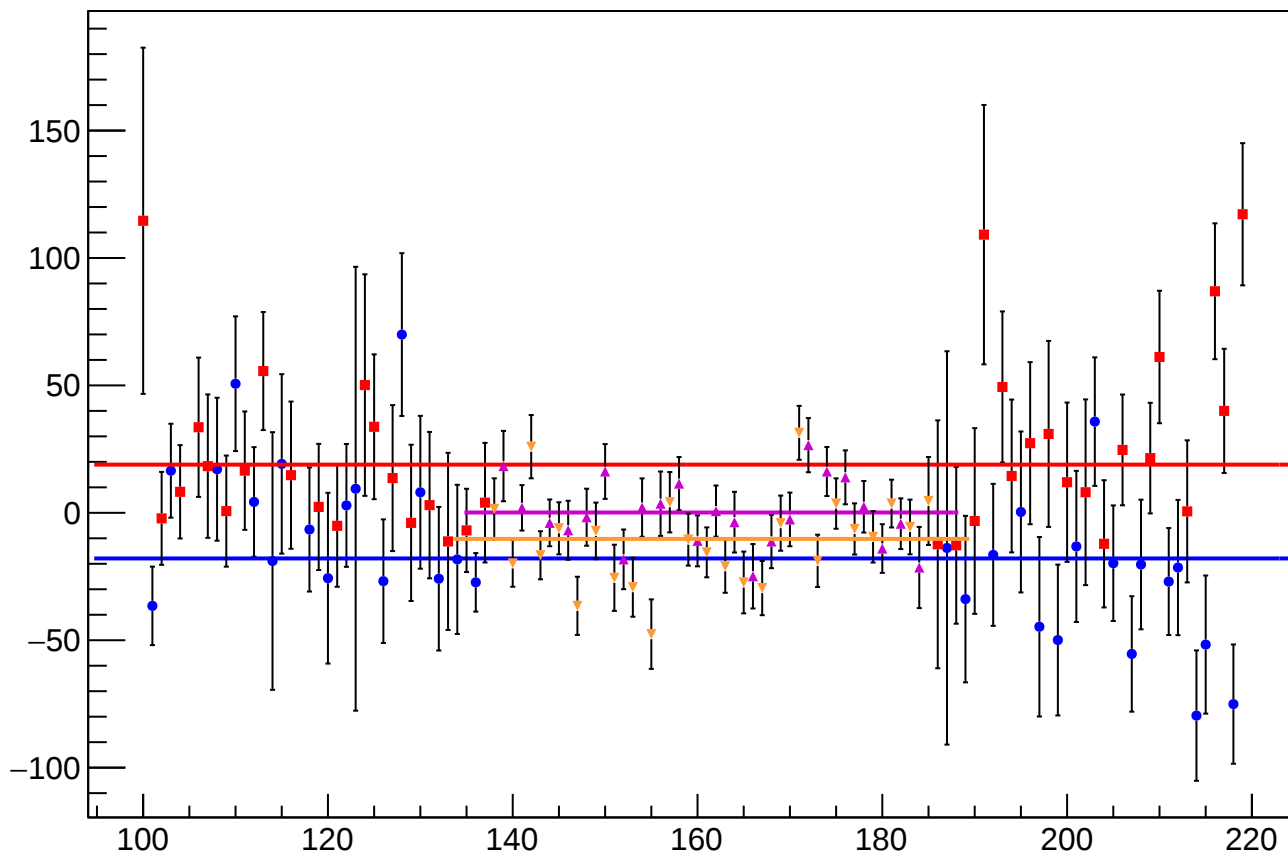
Right: 1.717 ± 0.001 $\chi^2/\text{NDF}: 67932493.9/68$

In: 1.917 ± 0.001 $\chi^2/\text{NDF}: 67865418.2/55$

Out: 1.940 ± 0.001 $\chi^2/\text{NDF}: 70776726.9/60$

All: 1.929 ± 0.001 $\chi^2/\text{NDF}: 138642280.7/116$

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -17.905 ± 4.330 $\chi^2/\text{NDF}: 48.9/32$

Left Out: -10.235 ± 2.167 $\chi^2/\text{NDF}: 58.0/24$

Right Out: 18.908 ± 4.375 $\chi^2/\text{NDF}: 44.7/36$

Left In: 0.130 ± 2.242 $\chi^2/\text{NDF}: 29.8/22$

Left: -5.230 ± 1.558 $\chi^2/\text{NDF}: 98.9/47$

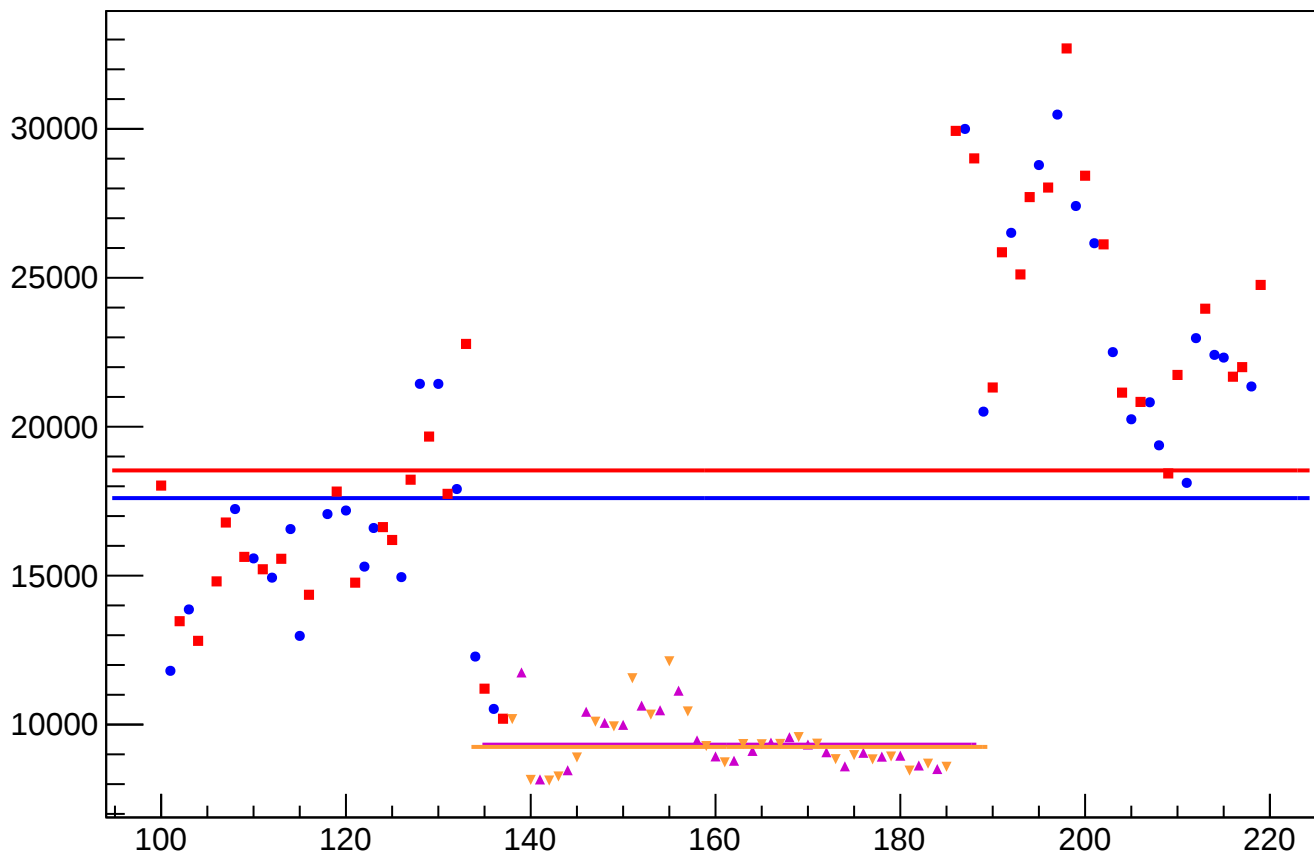
Right: 0.307 ± 3.078 $\chi^2/\text{NDF}: 129.4/69$

In: -3.684 ± 1.991 $\chi^2/\text{NDF}: 92.4/55$

Out: -4.496 ± 1.942 $\chi^2/\text{NDF}: 138.4/61$

All: -4.100 ± 1.390 $\chi^2/\text{NDF}: 230.8/117$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17603.291 $\pm$ 3.061 χ^2 /NDF: 2969596.5/32

Left Out: 9249.358 $\pm$ 1.532 χ^2 /NDF: 332003.4/24

Right Out: 18532.592 $\pm$ 3.094 χ^2 /NDF: 3069506.2/36

Left In: 9325.112 $\pm$ 1.585 χ^2 /NDF: 280927.7/22

Left: 9285.937 $\pm$ 1.102 χ^2 /NDF: 614111.7/47

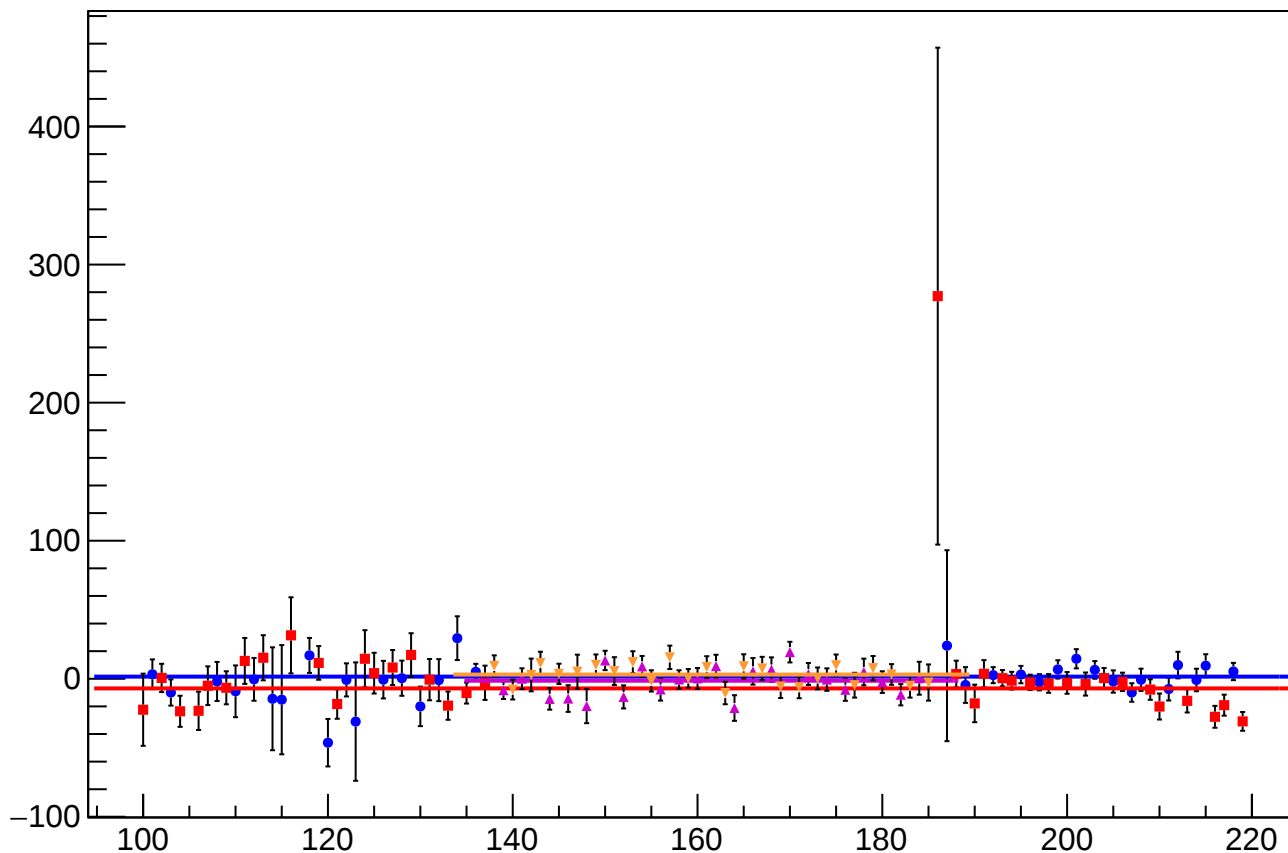
Right: 18063.048 $\pm$ 2.176 χ^2 /NDF: 6084688.0/69

In: 11075.799 $\pm$ 1.408 χ^2 /NDF: 9015816.7/55

Out: 11077.434 $\pm$ 1.373 χ^2 /NDF: 10631685.1/61

All: 11076.637 $\pm$ 0.983 χ^2 /NDF: 19647502.6

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.565 ± 1.590 χ^2/NDF : 29.9/32

Left Out: 3.062 ± 1.659 χ^2/NDF : 18.3/24

Right Out: -6.971 ± 1.545 χ^2/NDF : 55.8/36

Left In: -1.394 ± 1.693 χ^2/NDF : 35.4/22

Left: 0.879 ± 1.185 χ^2/NDF : 57.2/47

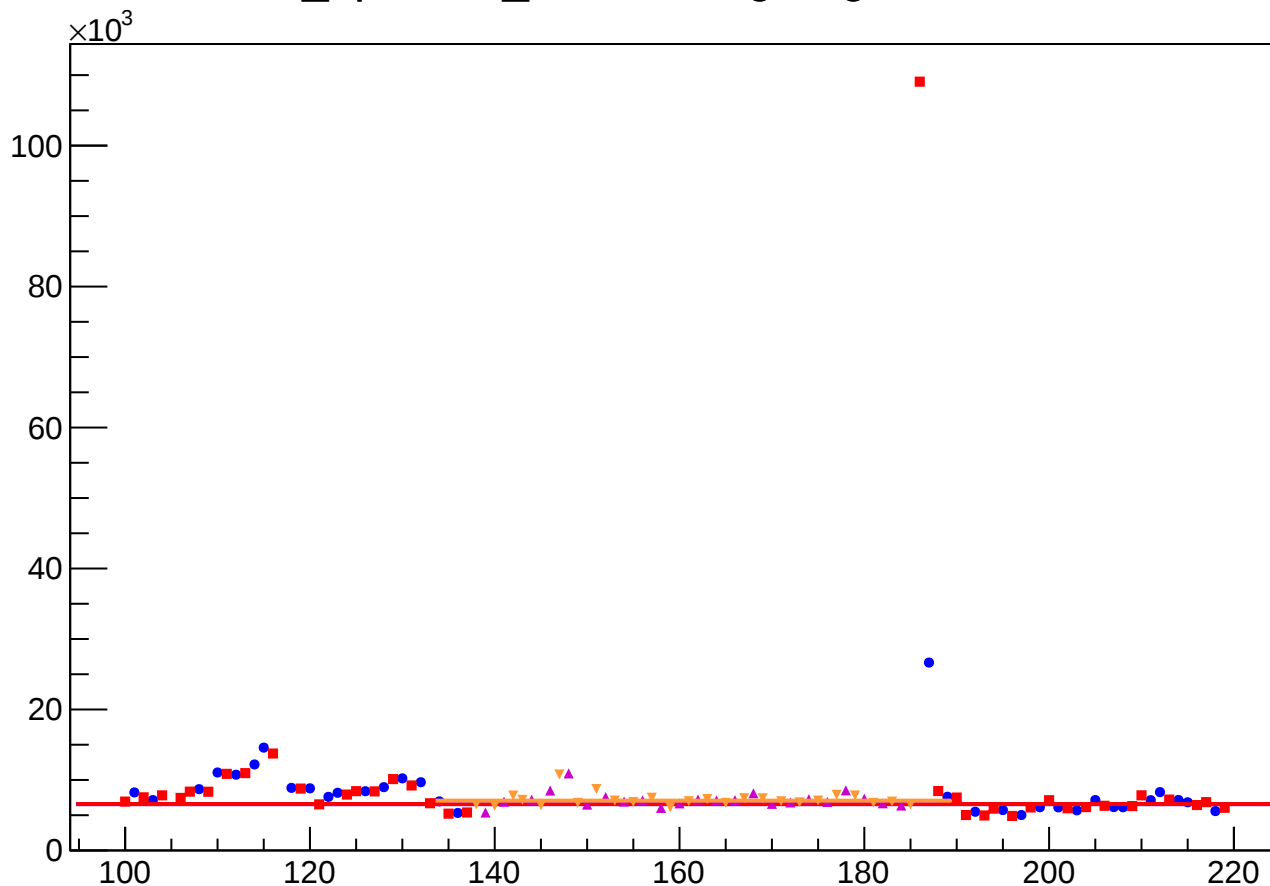
Right: -2.824 ± 1.108 χ^2/NDF : 100.5/69

In: 0.178 ± 1.159 χ^2/NDF : 66.9/55

Out: -2.310 ± 1.131 χ^2/NDF : 93.7/61

All: -1.096 ± 0.809 χ^2/NDF : 162.9/117

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6569.898 ± 1.124 $\chi^2/\text{NDF}: 1660628.7/32$

Left Out: 7066.826 ± 1.173 $\chi^2/\text{NDF}: 387449.8/24$

Right Out: 6582.397 ± 1.093 $\chi^2/\text{NDF}: 2166182.4/36$

Left In: 7000.532 ± 1.197 $\chi^2/\text{NDF}: 550029.3/22$

Left: 7034.358 ± 0.838 $\chi^2/\text{NDF}: 939043.5/47$

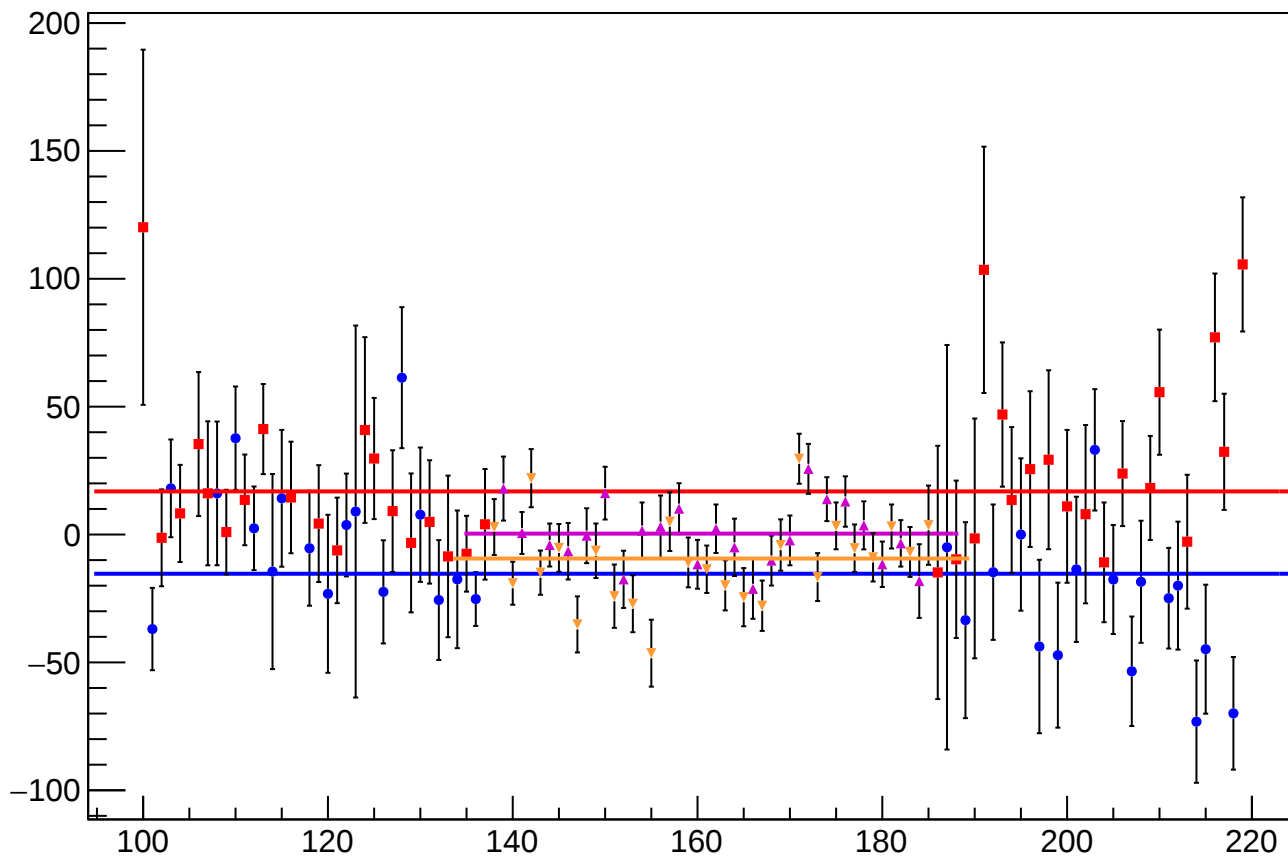
Right: 6576.324 ± 0.783 $\chi^2/\text{NDF}: 3826874.7/69$

In: 6771.629 ± 0.819 $\chi^2/\text{NDF}: 2279425.2/55$

Out: 6807.465 ± 0.800 $\chi^2/\text{NDF}: 2644950.2/61$

All: 6789.988 ± 0.572 $\chi^2/\text{NDF}: 4925355.2/11$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -15.332 ± 3.968 $\chi^2/\text{NDF}: 49.8/32$

Left Out: -9.376 ± 2.018 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 16.860 ± 3.978 $\chi^2/\text{NDF}: 41.9/36$

Left In: 0.353 ± 2.092 $\chi^2/\text{NDF}: 29.6/22$

Left: -4.688 ± 1.452 $\chi^2/\text{NDF}: 99.3/47$

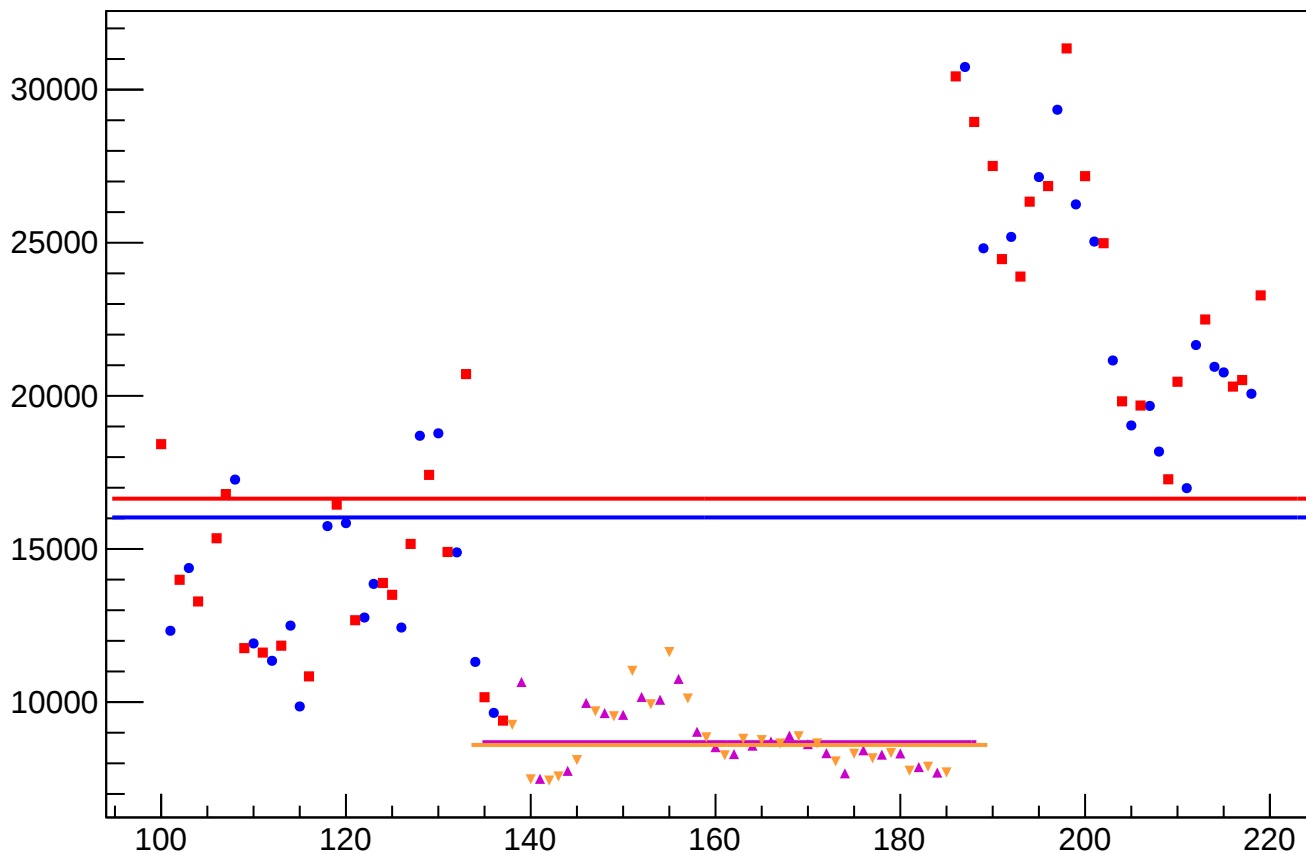
Right: 0.725 ± 2.809 $\chi^2/\text{NDF}: 124.6/69$

In: -3.059 ± 1.851 $\chi^2/\text{NDF}: 91.7/55$

Out: -4.006 ± 1.799 $\chi^2/\text{NDF}: 134.9/61$

All: -3.546 ± 1.290 $\chi^2/\text{NDF}: 226.8/117$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 16030.011 $\pm$ 2.806 χ^2/NDF : 3453843.8/32

Left Out: 8600.457 $\pm$ 1.427 χ^2/NDF : 438229.4/24

Right Out: 16642.981 $\pm$ 2.813 χ^2/NDF : 3913659.7/36

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

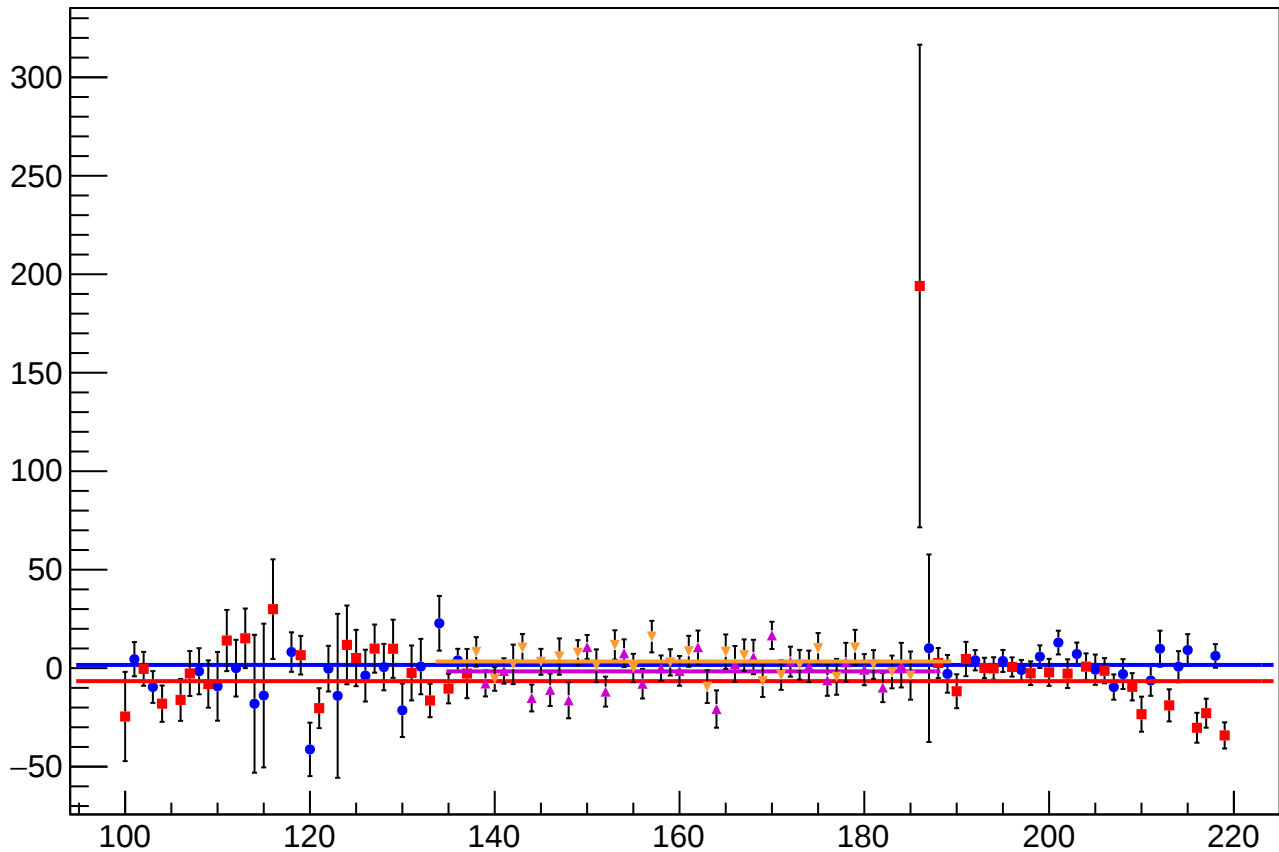
Right: 16335.752 $\pm$ 1.986 χ^2/NDF : 7391310.6/69

In: 10286.966 $\pm$ 1.309 χ^2/NDF : 9179422.1/55

Out: 10246.533 $\pm$ 1.272 χ^2/NDF : 10855229.4/61

All: 10266.182 $\pm$ 0.912 χ^2/NDF : 20035142.2

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.651 ± 1.444 χ^2/NDF : 31.8/32

Left Out: 3.406 ± 1.550 χ^2/NDF : 16.8/24

Right Out: -6.581 ± 1.389 χ^2/NDF : 71.7/36

Left In: -1.627 ± 1.599 χ^2/NDF : 33.5/22

Left: 0.967 ± 1.113 χ^2/NDF : 55.4/47

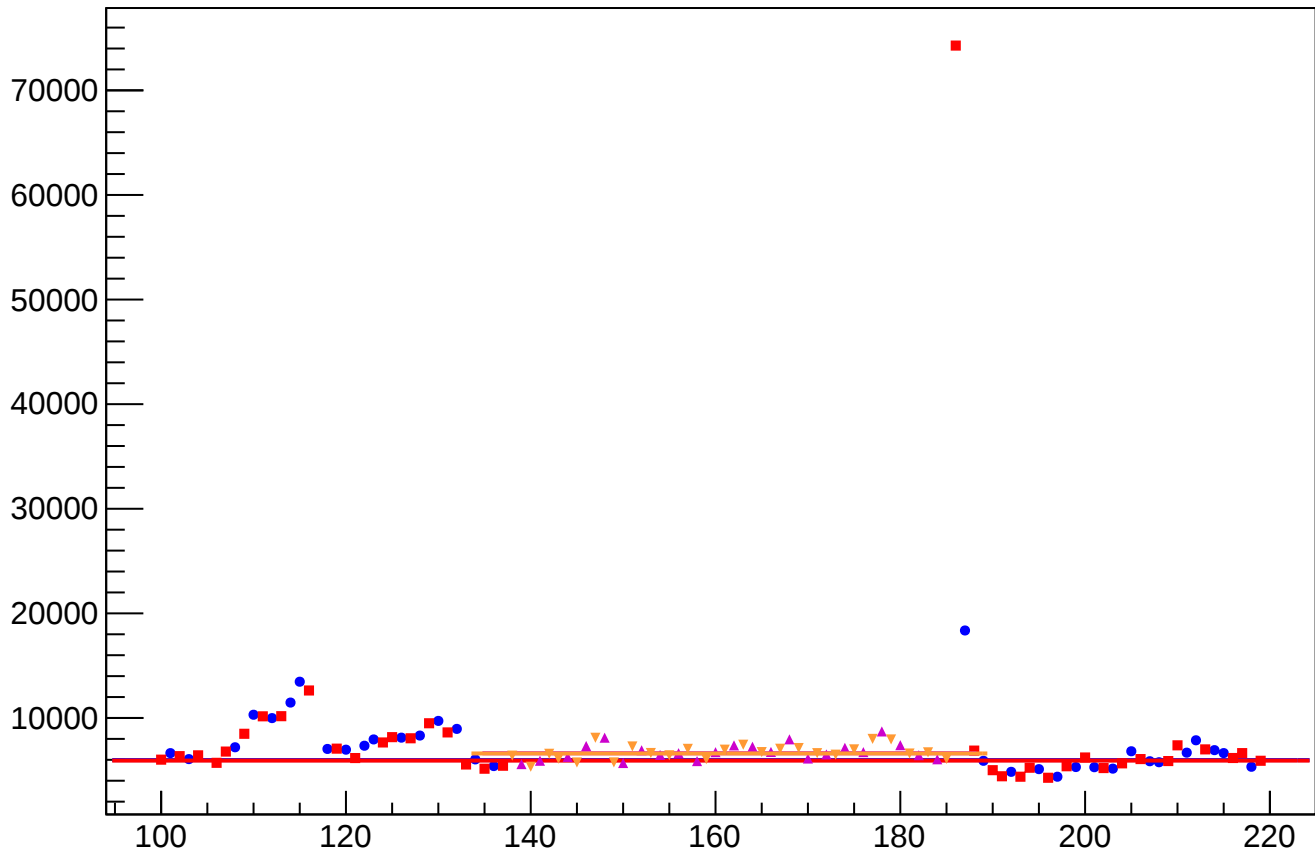
Right: -2.625 ± 1.001 χ^2/NDF : 120.4/69

In: 0.179 ± 1.072 χ^2/NDF : 67.6/55

Out: -2.136 ± 1.034 χ^2/NDF : 111.6/61

All: -1.019 ± 0.744 χ^2/NDF : 181.6/117

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5972.915+/-1.021 χ^2/NDF : 1663380.0/32

Left Out: 6607.100+/-1.096 χ^2/NDF : 398416.1/24

Right Out: 5926.595+/-0.982 χ^2/NDF : 2254524.7/36

Left In: 6628.653+/-1.131 χ^2/NDF : 430282.2/22

Left: 6617.543+/-0.787 χ^2/NDF : 828885.6/47

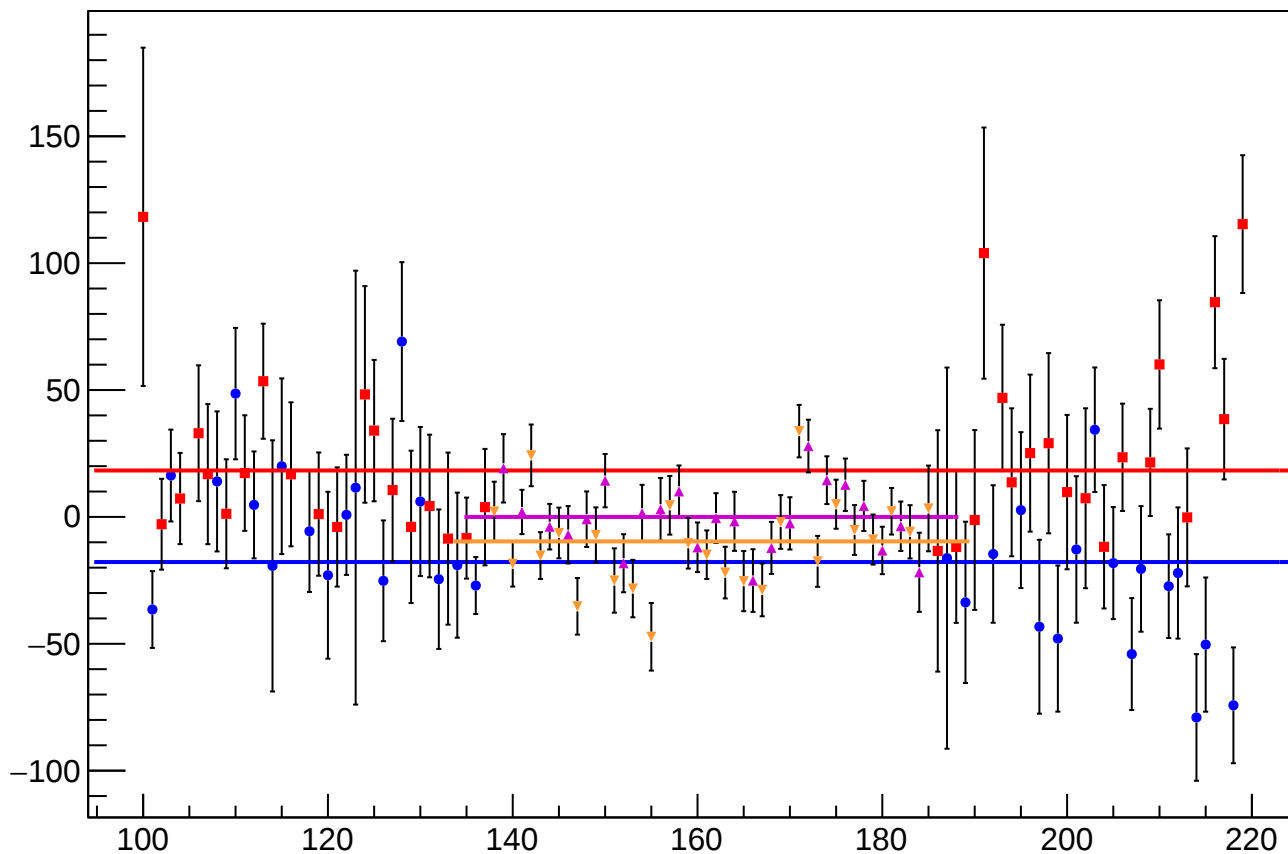
Right: 5948.855+/-0.708 χ^2/NDF : 3918973.8/69

In: 6267.408+/-0.758 χ^2/NDF : 2278933.2/55

Out: 6229.530+/-0.731 χ^2/NDF : 2866710.7/61

All: 6247.801+/-0.526 χ^2/NDF : 5146937.3/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -17.782 $\pm$ 4.232 χ^2/NDF : 49.0/32

Left Out: -9.649 $\pm$ 2.118 χ^2/NDF : 59.8/24

Right Out: 18.302 $\pm$ 4.277 χ^2/NDF : 45.2/36

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

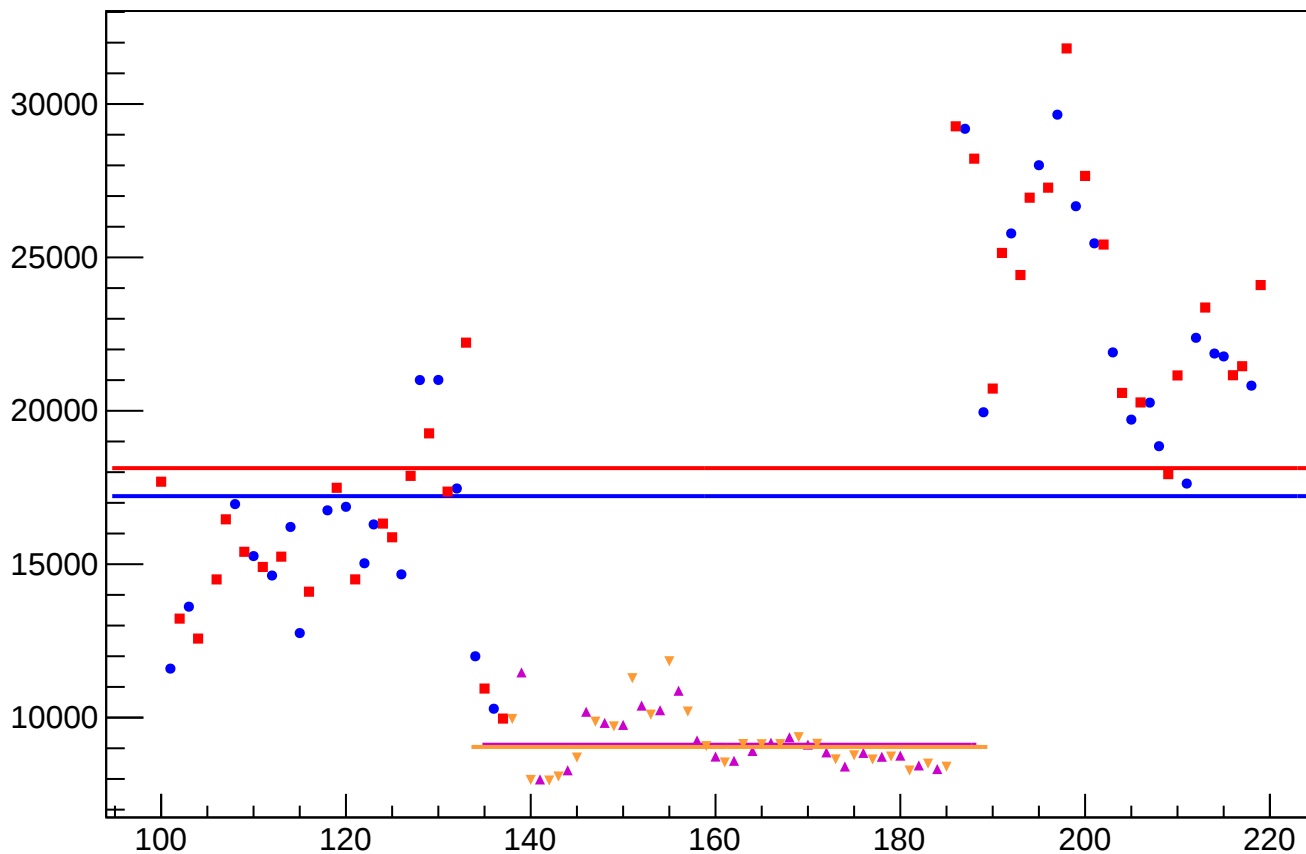
Right: 0.068 $\pm$ 3.008 χ^2/NDF : 130.2/69

In: -3.777 $\pm$ 1.946 χ^2/NDF : 93.5/55

Out: -4.144 $\pm$ 1.898 χ^2/NDF : 139.3/61

All: -3.965 $\pm$ 1.359 χ^2/NDF : 232.8/117

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17218.720 $\pm$ 2.992 χ^2 /NDF: 2921560.4/32

Left Out: 9043.485 $\pm$ 1.498 χ^2 /NDF: 328192.2/24

Right Out: 18131.521 $\pm$ 3.025 χ^2 /NDF: 3012606.7/36

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

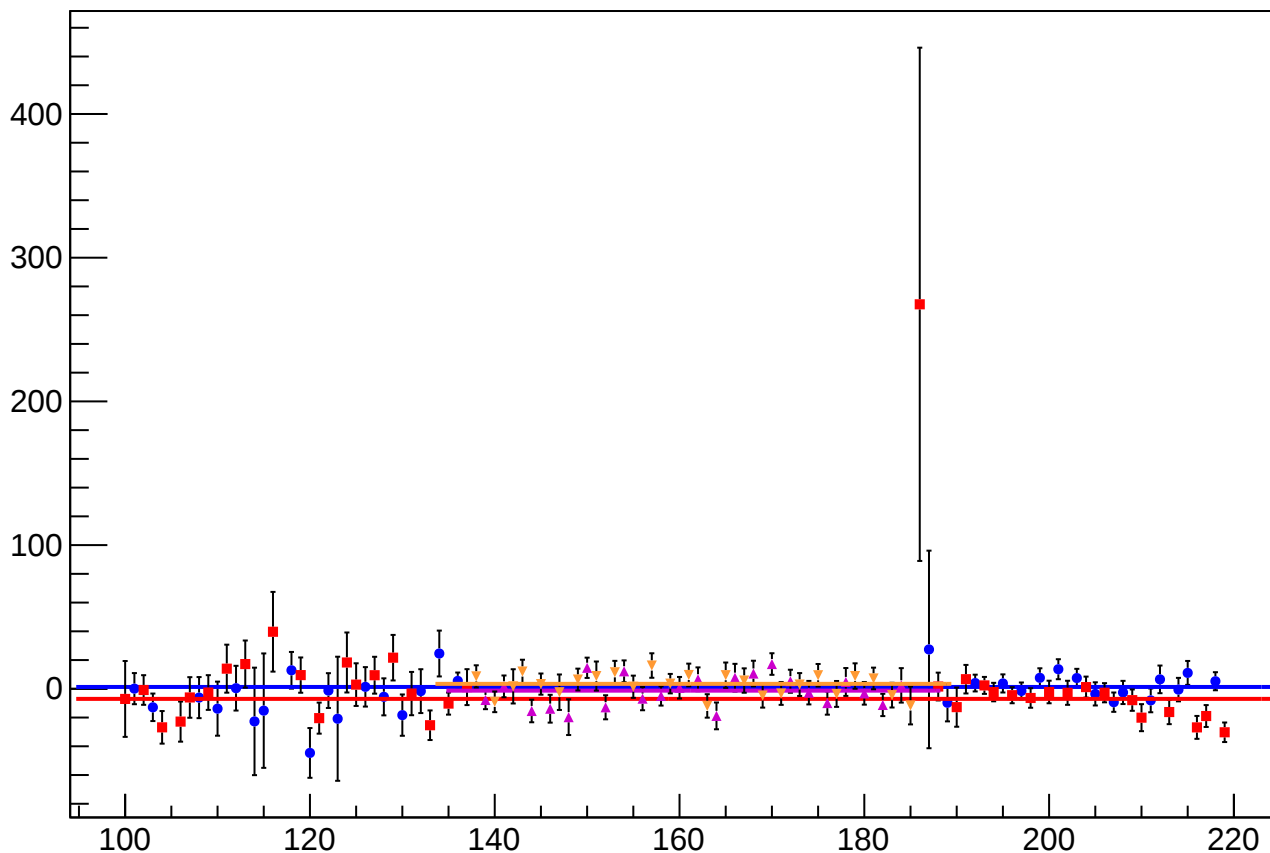
Right: 17670.250 $\pm$ 2.127 χ^2 /NDF: 5980195.2/69

In: 10830.765 $\pm$ 1.376 χ^2 /NDF: 8978835.4/55

Out: 10833.351 $\pm$ 1.342 χ^2 /NDF: 10591408.8/61

All: 10832.091 $\pm$ 0.961 χ^2 /NDF: 19570246.1/117

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.285 ± 1.595 χ^2/NDF : 29.6/32

Left Out: 3.439 ± 1.666 χ^2/NDF : 18.9/24

Right Out: -7.012 ± 1.551 χ^2/NDF : 59.8/36

Left In: -1.291 ± 1.701 χ^2/NDF : 36.5/22

Left: 1.123 ± 1.190 χ^2/NDF : 59.4/47

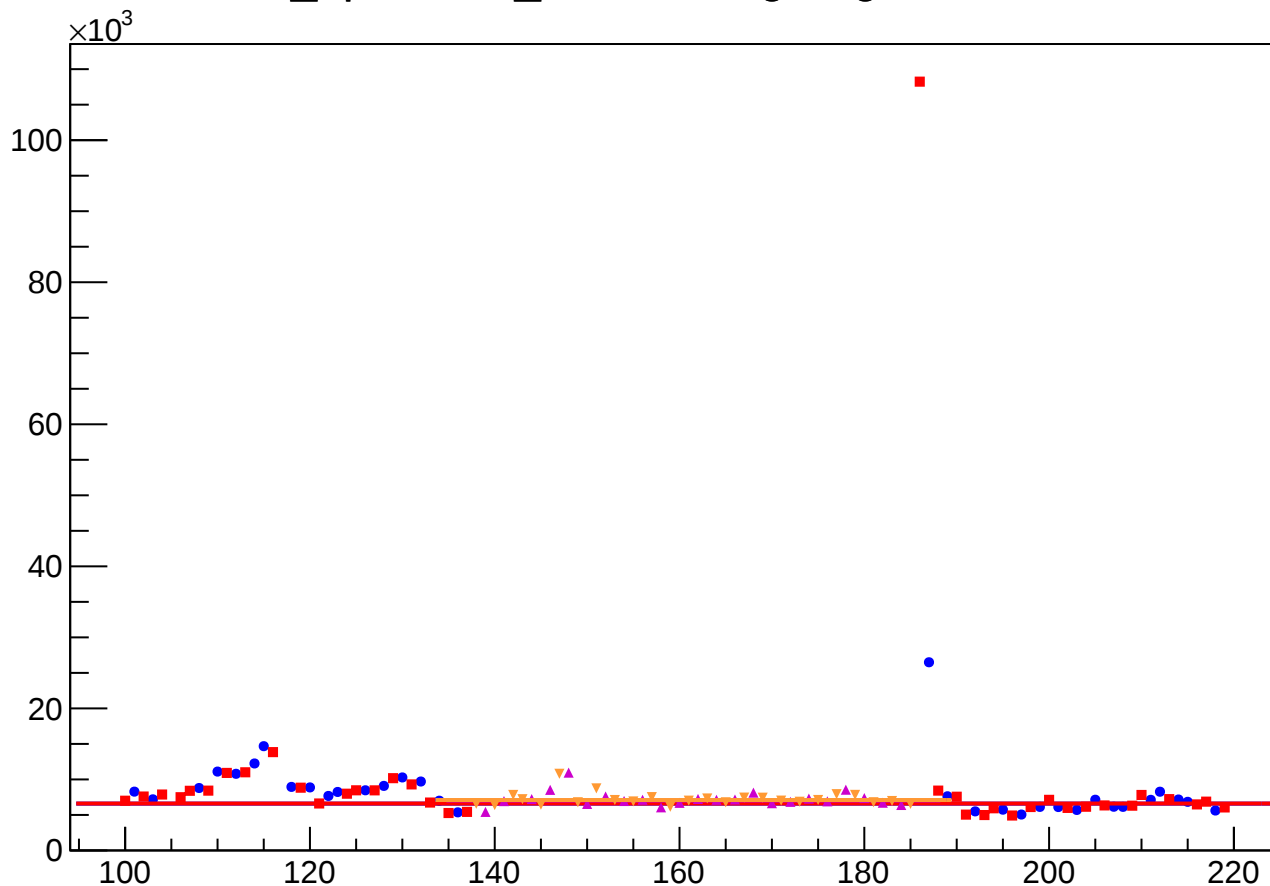
Right: -2.980 ± 1.112 χ^2/NDF : 103.3/69

In: 0.080 ± 1.163 χ^2/NDF : 67.4/55

Out: -2.161 ± 1.135 χ^2/NDF : 99.7/61

All: -1.068 ± 0.812 χ^2/NDF : 169.0/117

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6591.501 $\pm$ 1.128 χ^2 /NDF: 1664562.2/32

Left Out: 7098.726 $\pm$ 1.178 χ^2 /NDF:382550.4/24

Right Out: 6605.515 $\pm$ 1.096 χ^2 /NDF: 2170731.0/36

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

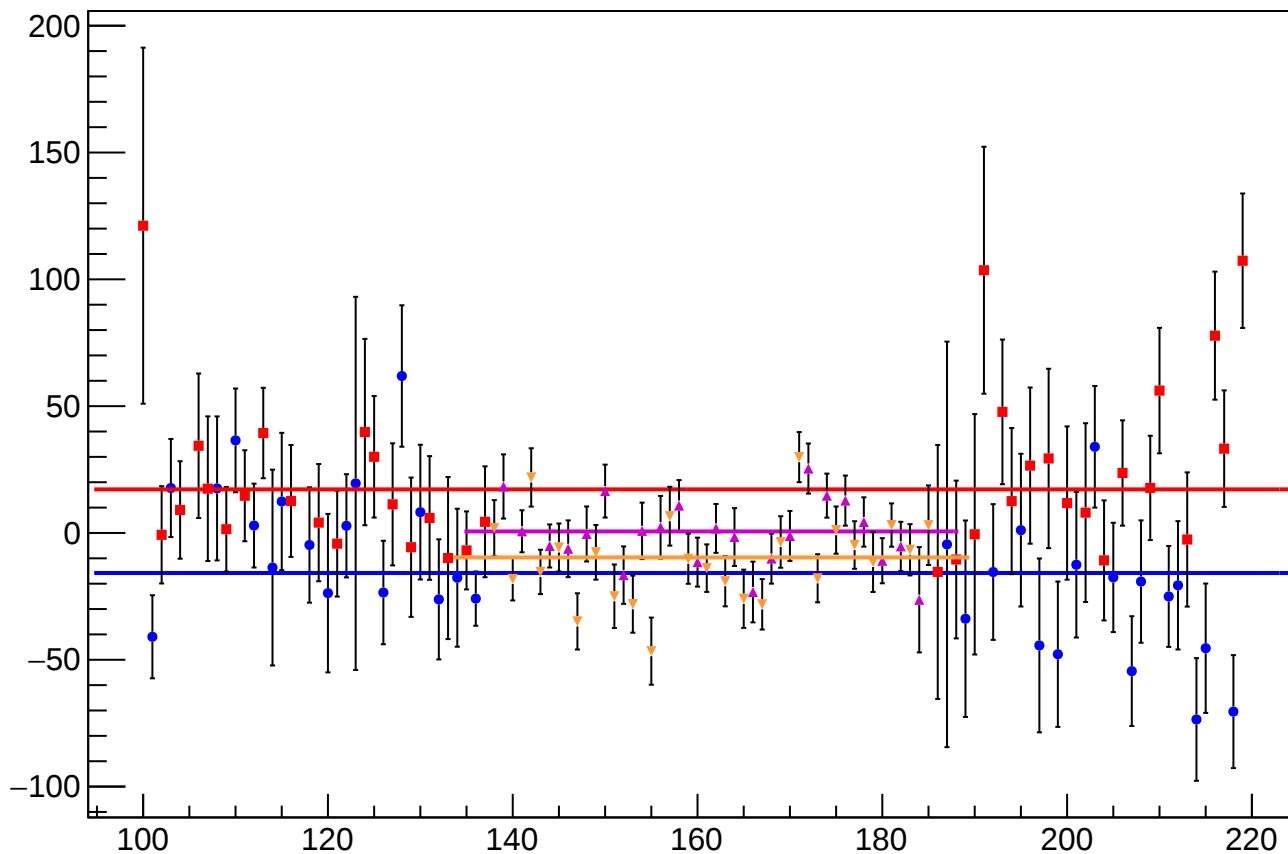
Right: 6598.704 $\pm$ 0.786 χ^2 /NDF: 3835372.6/69

In: 6798.350 $\pm$ 0.823 χ^2 /NDF:2277545.6/55

Out: 6834.422 $\pm$ 0.803 χ^2 /NDF:2647204.1/61

All: 6816.830 $\pm$ 0.574 χ^2 /NDF: 4925734.9/111

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -15.785 $\pm$ 4.018 χ^2/NDF : 50.2/32

Left Out: -9.640 $\pm$ 2.057 χ^2/NDF : 57.6/24

Right Out: 17.184 $\pm$ 4.029 χ^2/NDF : 41.0/36

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

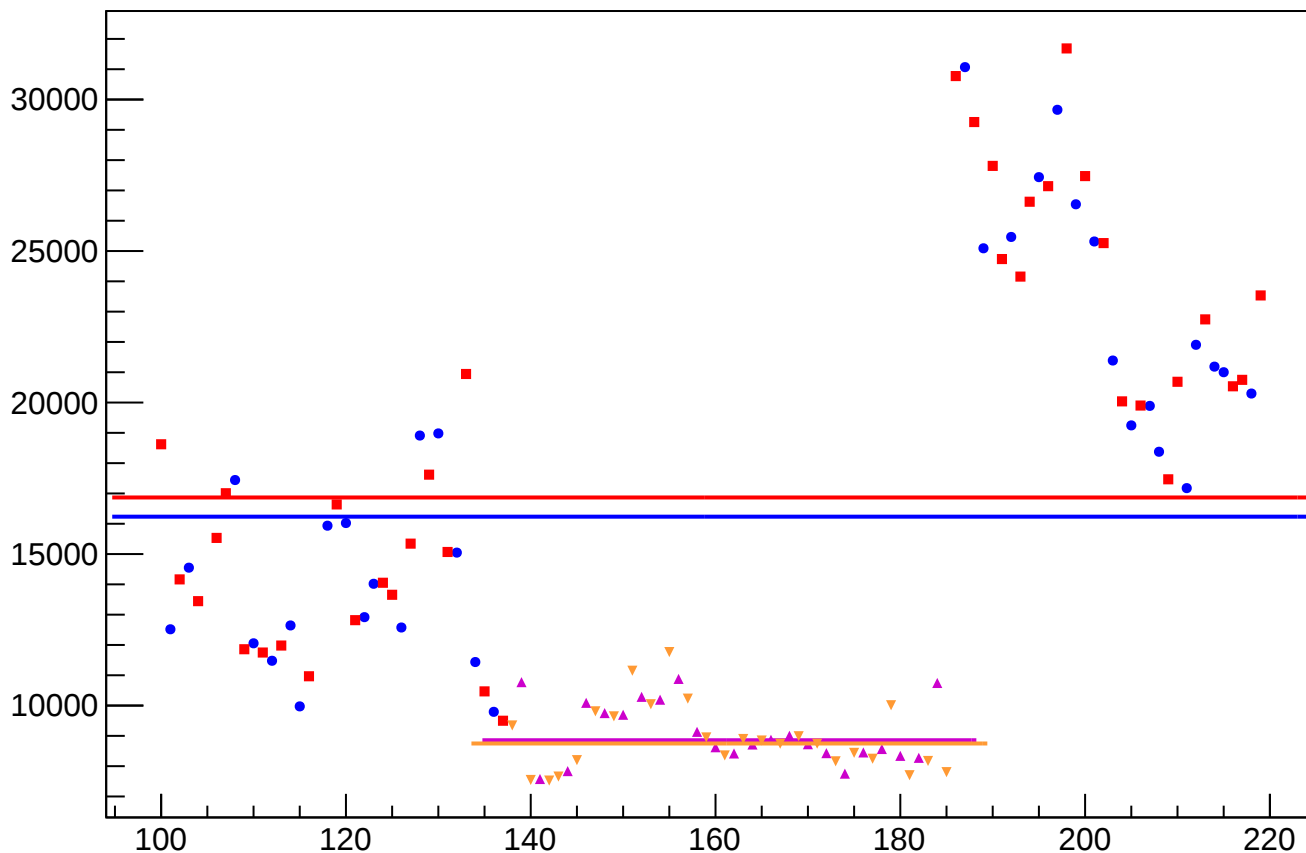
Right: 0.651 $\pm$ 2.845 χ^2/NDF : 124.7/69

In: -3.009 $\pm$ 1.885 χ^2/NDF : 92.8/55

Out: -4.094 $\pm$ 1.832 χ^2/NDF : 133.8/61

All: -3.567 $\pm$ 1.314 χ^2/NDF : 226.7/117

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16233.852 $\pm$ 2.841 χ^2 /NDF: 3429310.0/32

Left Out: 8748.407 $\pm$ 1.455 χ^2 /NDF:463394.1/24

Right Out: 16867.211 $\pm$ 2.849 χ^2 /NDF: 3871617.8/36

Left In: 8855.591 $\pm$ 1.510 χ^2 /NDF:367542.7/22

Left: 8800.011 $\pm$ 1.048 χ^2 /NDF: 833550.6/47

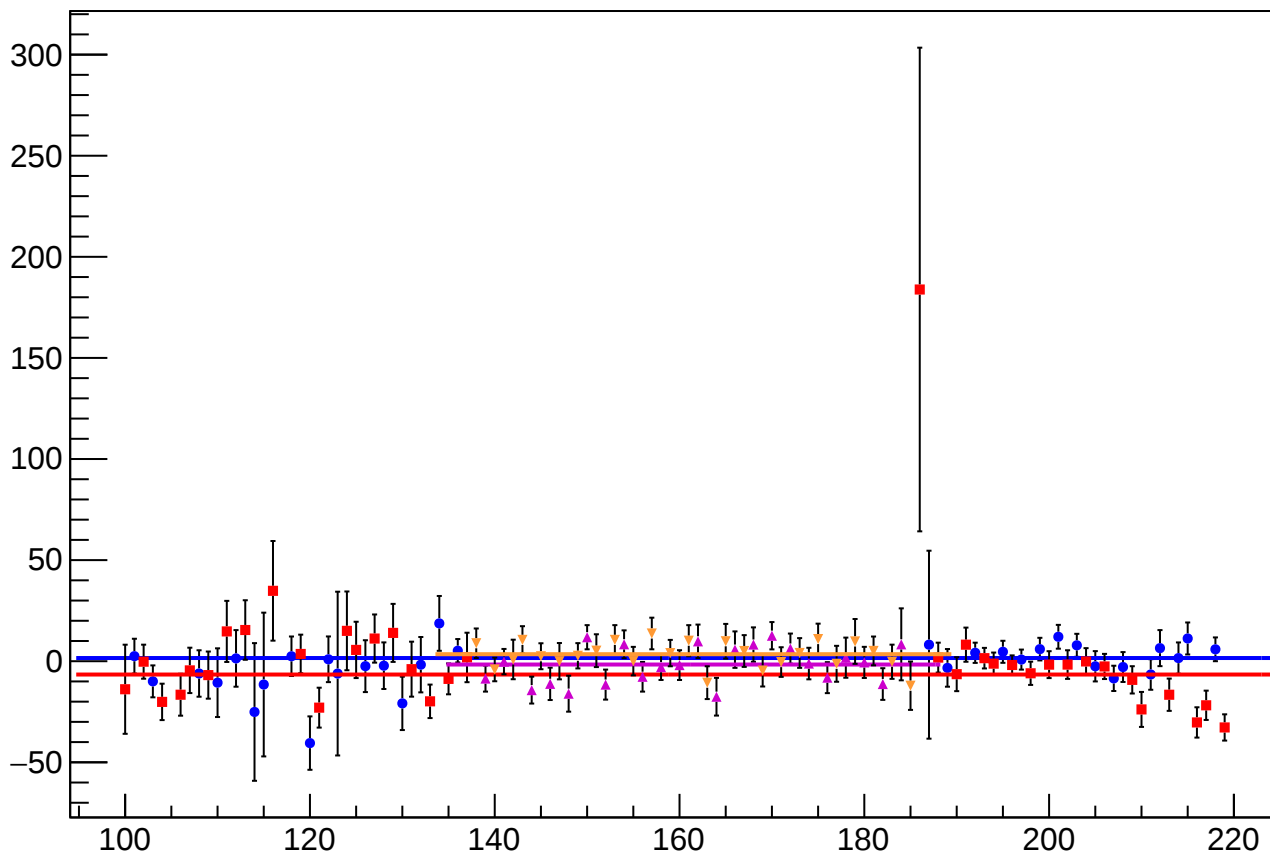
Right: 16549.602 $\pm$ 2.012 χ^2 /NDF: 7325706.8/69

In: 10480.388 $\pm$ 1.333 χ^2 /NDF:9056715.6/55

Out: 10427.139 $\pm$ 1.296 χ^2 /NDF:10775578.4/61

All: 10453.003 $\pm$ 0.929 χ^2 /NDF: 19833114.5

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.577 ± 1.409 $\chi^2/\text{NDF}: 31.9/32$

Left Out: 3.473 ± 1.524 $\chi^2/\text{NDF}: 15.8/24$

Right Out: -6.587 ± 1.355 $\chi^2/\text{NDF}: 74.4/36$

Left In: -1.638 ± 1.578 $\chi^2/\text{NDF}: 33.7/22$

Left: 1.006 ± 1.096 $\chi^2/\text{NDF}: 54.9/47$

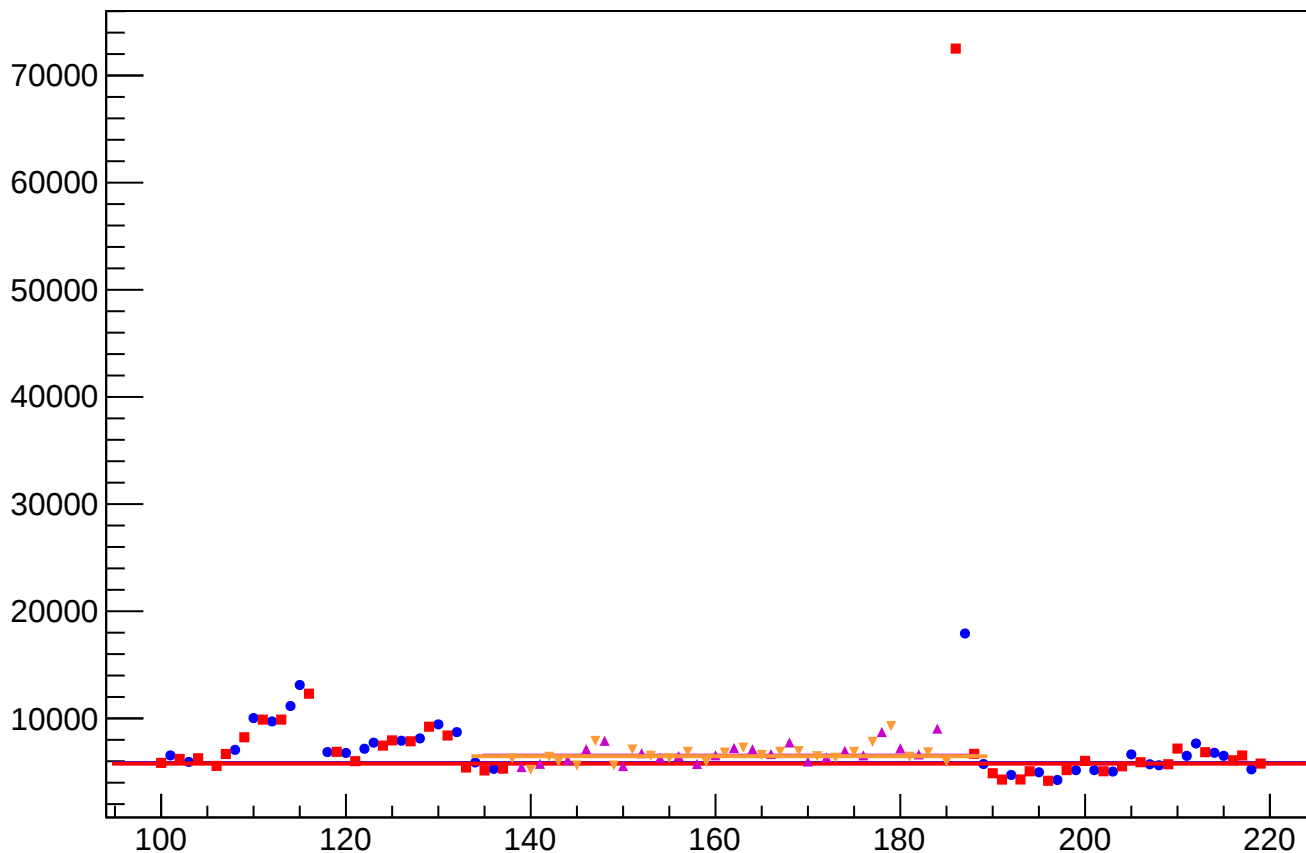
Right: -2.665 ± 0.977 $\chi^2/\text{NDF}: 123.7/69$

In: 0.150 ± 1.051 $\chi^2/\text{NDF}: 67.9/55$

Out: -2.146 ± 1.013 $\chi^2/\text{NDF}: 114.5/61$

All: -1.040 ± 0.729 $\chi^2/\text{NDF}: 184.9/117$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5827.797 $\pm$ 0.997 χ^2 /NDF: 1668938.3/32

Left Out: 6471.976 $\pm$ 1.078 χ^2 /NDF: 490282.9/24

Right Out: 5781.141 $\pm$ 0.958 χ^2 /NDF: 2250808.4/36

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

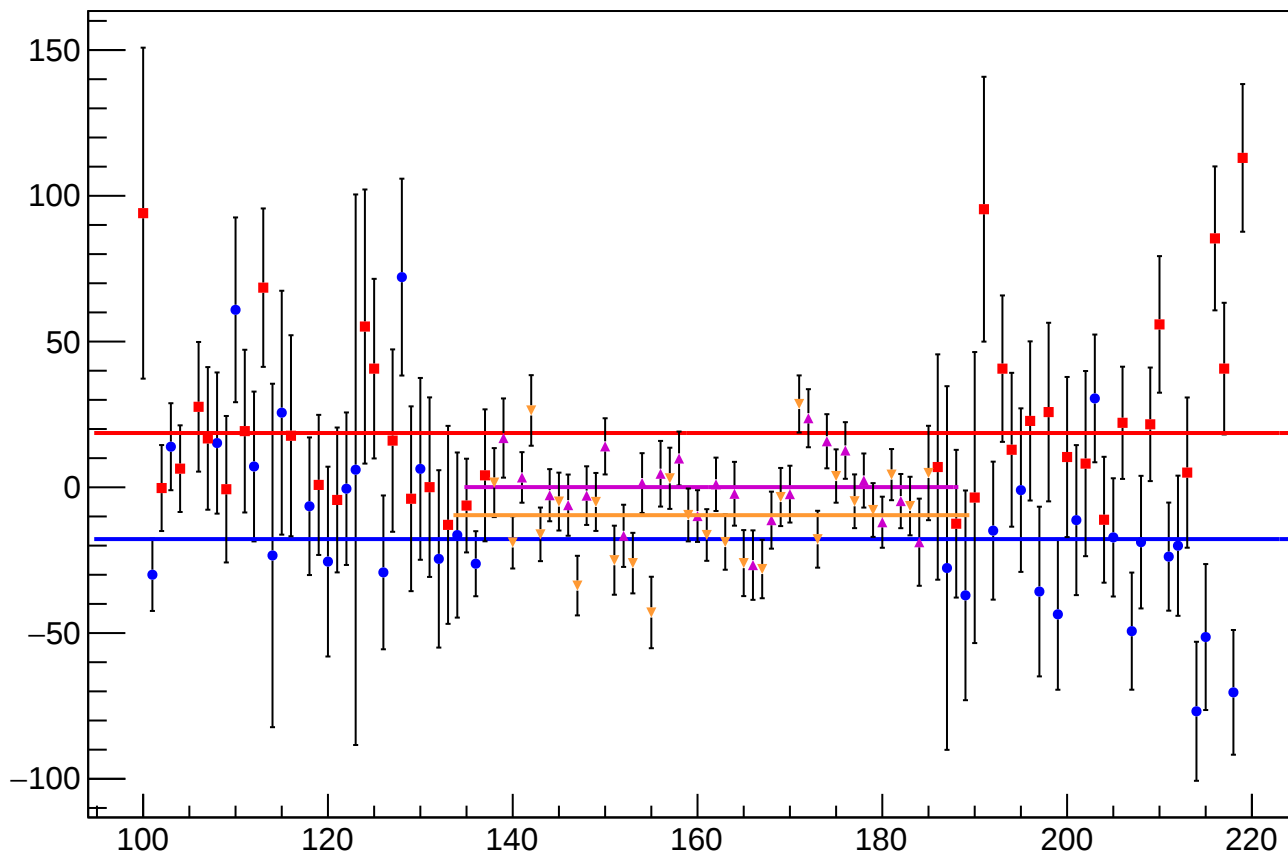
Right: 5803.556 $\pm$ 0.691 χ^2 /NDF: 3920885.6/69

In: 6135.831 $\pm$ 0.743 χ^2 /NDF: 2364302.4/55

Out: 6086.115 $\pm$ 0.716 χ^2 /NDF: 2970544.8/61

All: 6110.050 $\pm$ 0.516 χ^2 /NDF: 5337167.4/118

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -17.762 $\pm$ 4.035 χ^2/NDF : 48.3/32

Left Out: -9.554 $\pm$ 2.012 χ^2/NDF : 59.5/24

Right Out: 18.628 $\pm$ 4.095 χ^2/NDF : 47.9/36

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

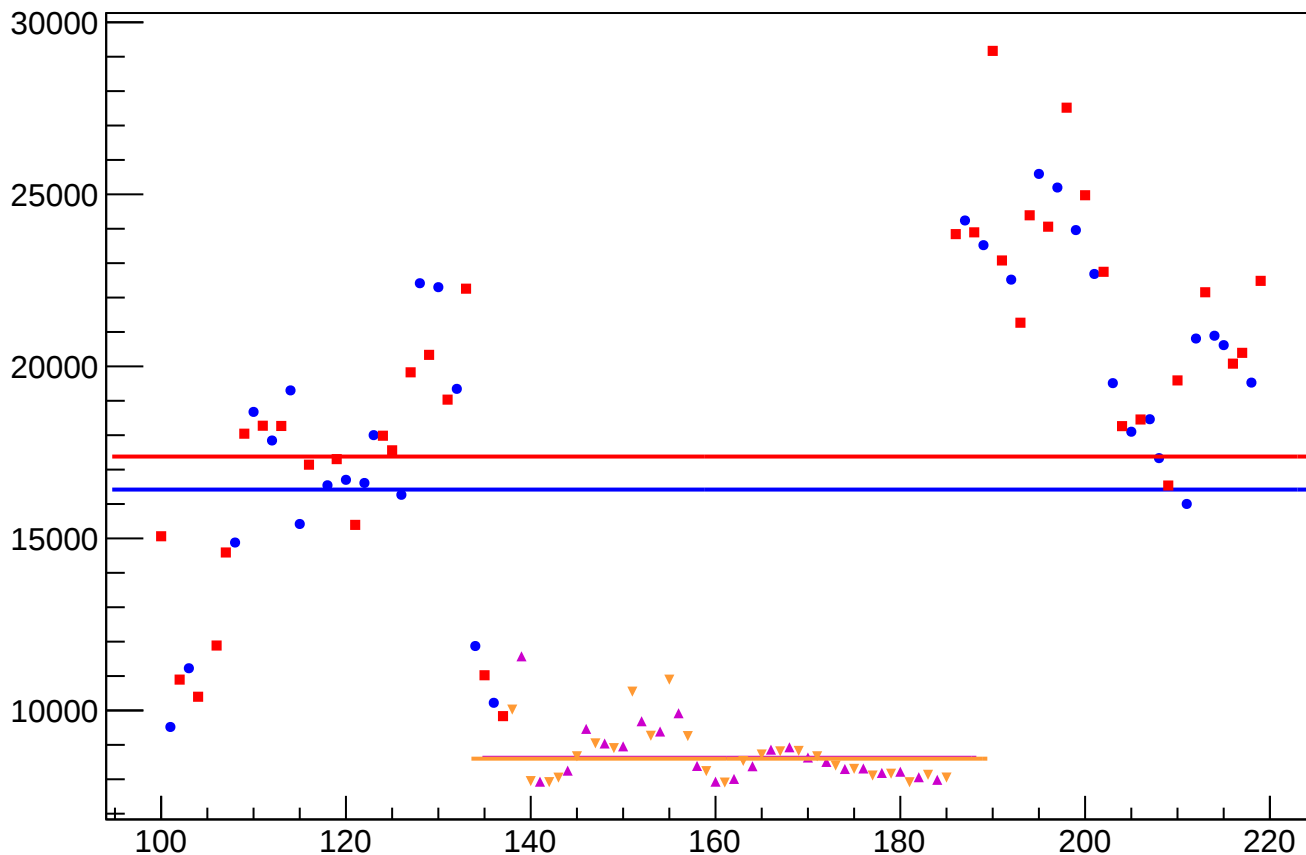
Right: 0.163 $\pm$ 2.874 χ^2/NDF : 136.3/69

In: -3.652 $\pm$ 1.844 χ^2/NDF : 93.6/55

Out: -4.075 $\pm$ 1.806 χ^2/NDF : 145.6/61

All: -3.868 $\pm$ 1.290 χ^2/NDF : 239.3/117

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16419.670 $\pm$ 2.853 χ^2 /NDF: 2952290.8/32

Left Out: 8598.983 $\pm$ 1.423 χ^2 /NDF:249070.5/24

Right Out: 17379.358 $\pm$ 2.896 χ^2 /NDF: 2919265.7/36

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

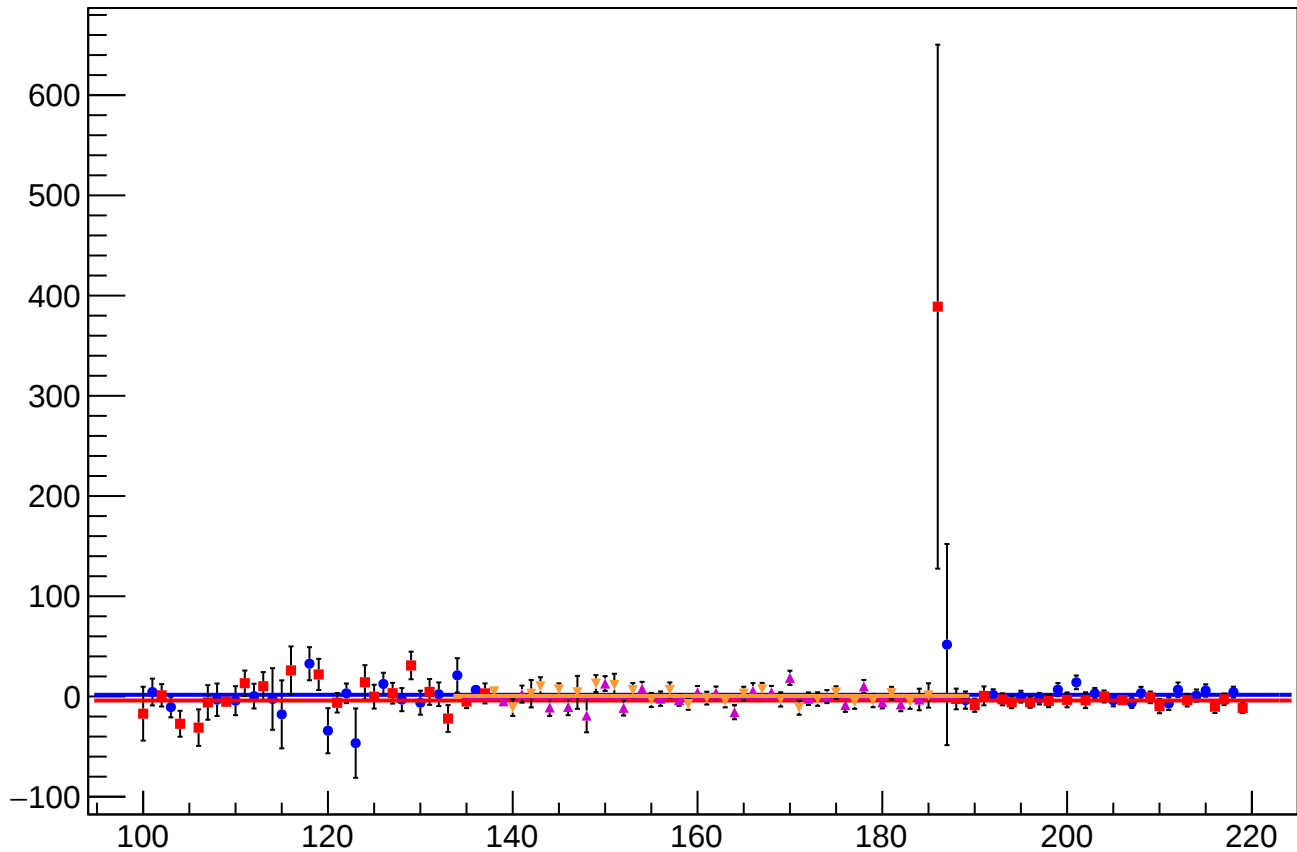
Right: 16892.392 $\pm$ 2.032 χ^2 /NDF: 5927293.2/69

In: 10252.764 $\pm$ 1.304 χ^2 /NDF:9095113.5/55

Out: 10306.071 $\pm$ 1.277 χ^2 /NDF:10575405.1/61

All: 10279.973 $\pm$ 0.912 χ^2 /NDF: 19671372.0

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.688 ± 1.371 $\chi^2/\text{NDF}: 25.5/32$

Left Out: 0.528 ± 1.418 $\chi^2/\text{NDF}: 19.5/24$

Right Out: -4.014 ± 1.292 $\chi^2/\text{NDF}: 32.0/36$

Left In: -1.050 ± 1.396 $\chi^2/\text{NDF}: 32.5/22$

Left: -0.273 ± 0.995 $\chi^2/\text{NDF}: 52.6/47$

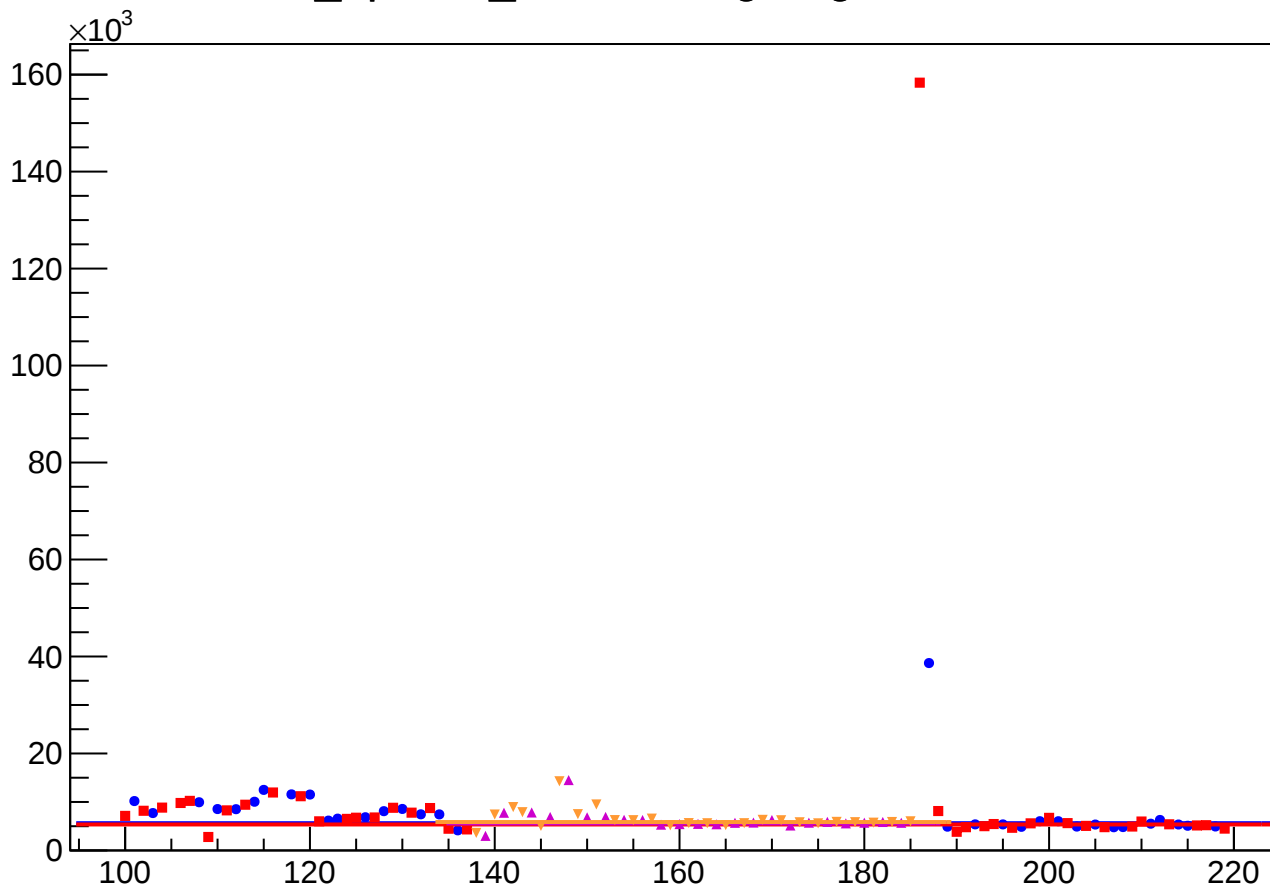
Right: -1.332 ± 0.940 $\chi^2/\text{NDF}: 66.6/69$

In: 0.344 ± 0.978 $\chi^2/\text{NDF}: 60.0/55$

Out: -1.953 ± 0.955 $\chi^2/\text{NDF}: 57.1/61$

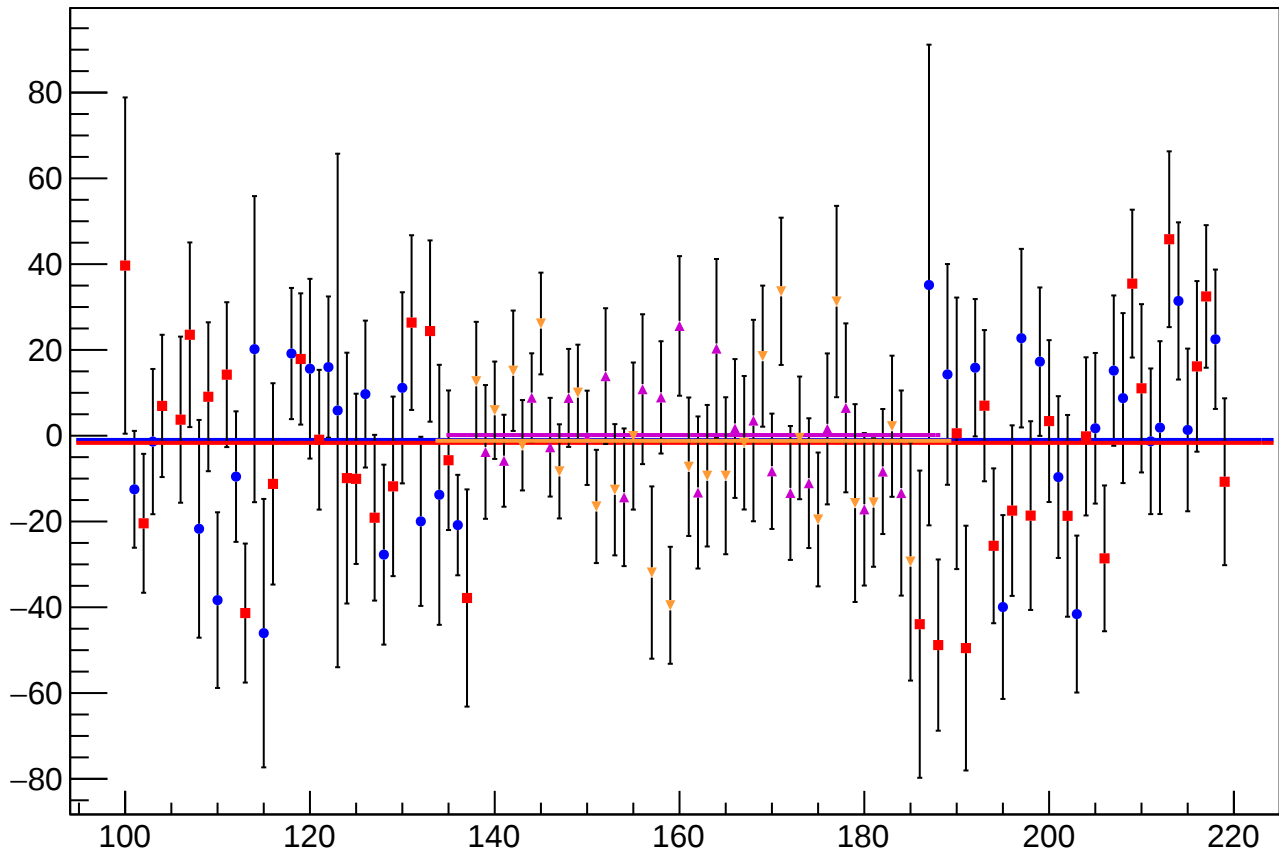
All: -0.832 ± 0.683 $\chi^2/\text{NDF}: 119.9/117$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5622.899+/-0.969	χ^2/NDF : 2169161.6/32	Left: 5713.698+/-0.703	χ^2/NDF : 3895130.2/47
Left Out: 5860.605+/-1.002	χ^2/NDF : 1690049.2/24	Right: 5483.538+/-0.665	χ^2/NDF : 5738090.9/69
Right Out: 5359.746+/-0.914	χ^2/NDF : 3529901.3/36	In: 5597.574+/-0.692	χ^2/NDF : 4333339.8/55
Left In: 5571.330+/-0.987	χ^2/NDF : 2162788.3/22	Out: 5587.014+/-0.675	χ^2/NDF : 5356323.3/61
		All: 5592.168+/-0.483	χ^2/NDF : 9689782.5/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -0.985 $\pm$ 3.297 χ^2/NDF : 36.3/32

Left Out: -1.182 $\pm$ 2.939 χ^2/NDF : 33.7/24

Right Out: -1.667 $\pm$ 3.217 χ^2/NDF : 51.9/36

Left In: 0.157 $\pm$ 3.058 χ^2/NDF : 11.5/22

Left: -0.539 $\pm$ 2.119 χ^2/NDF : 45.3/47

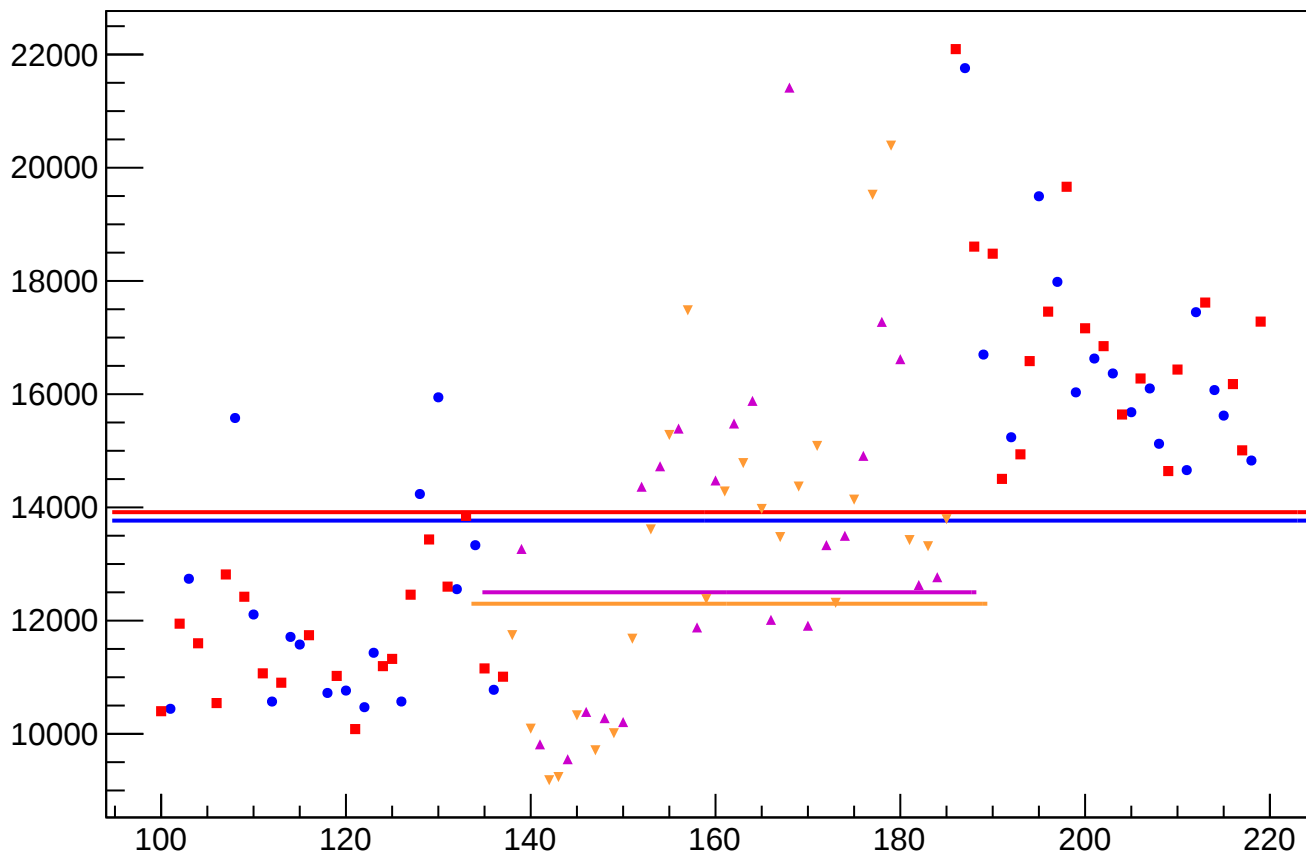
Right: -1.334 $\pm$ 2.303 χ^2/NDF : 88.2/69

In: -0.371 $\pm$ 2.242 χ^2/NDF : 47.8/55

Out: -1.403 $\pm$ 2.170 χ^2/NDF : 85.6/61

All: -0.904 $\pm$ 1.559 χ^2/NDF : 133.5/117

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13766.972 $\pm$ 2.331

χ^2/NDF : 1315326.8/32

Left: 12395.720 $\pm$ 1.498 χ^2/NDF : 2868458.0/47

Right: 13843.287 $\pm$ 1.628 χ^2/NDF : 2814311.6/69

Left Out: 12298.676 $\pm$ 2.078

χ^2/NDF : 1506026.8/24

In: 13086.304 $\pm$ 1.585 χ^2/NDF : 2831768.7/55

Right Out: 13915.941 $\pm$ 2.275

χ^2/NDF : 1496893.4/36

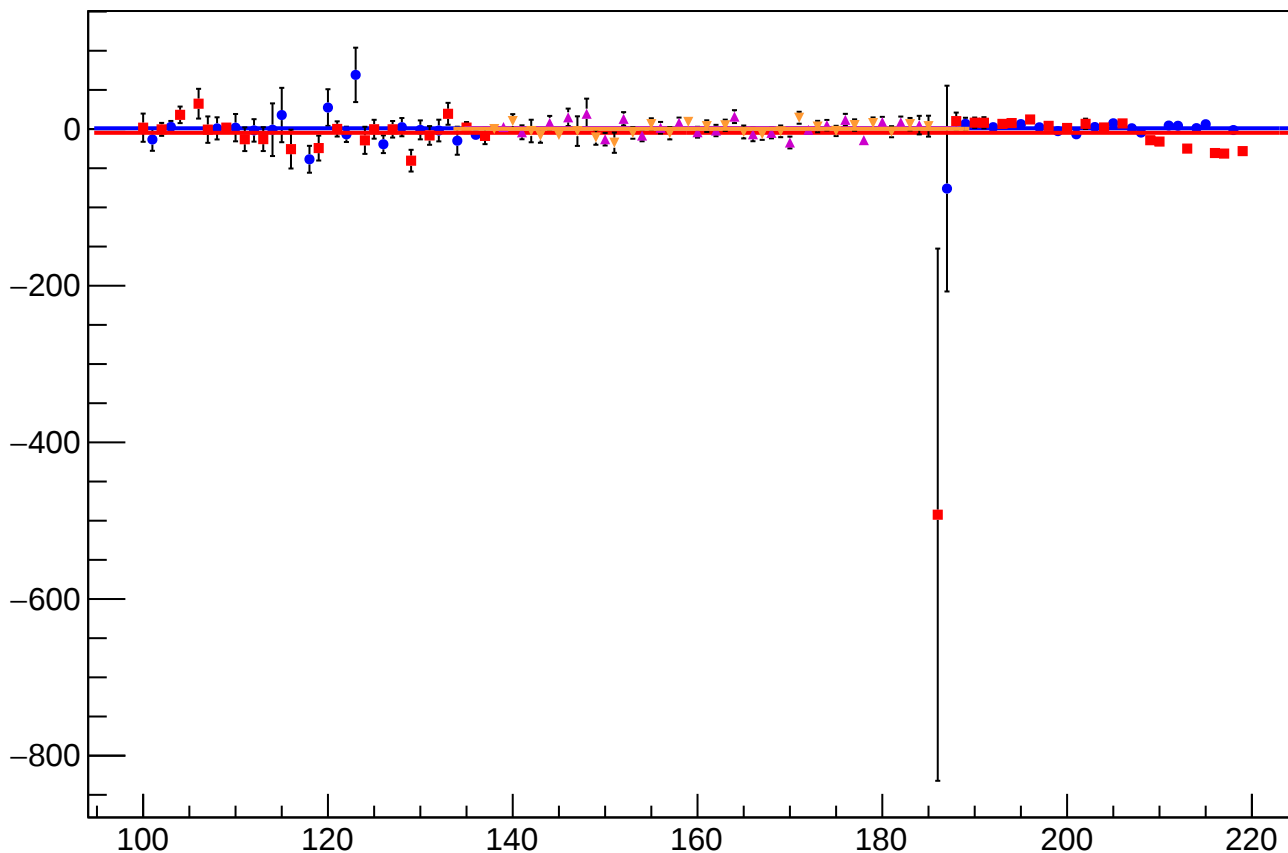
Out: 13034.352 $\pm$ 1.534 χ^2/NDF : 3278434.0/61

Left In: 12500.795 $\pm$ 2.162

χ^2/NDF : 1357889.1/22

All: 13059.476 $\pm$ 1.103 χ^2/NDF : 6110757.2/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 1.012 ± 1.128 $\chi^2/\text{NDF}: 30.7/32$

Left Out: 0.353 ± 1.433 $\chi^2/\text{NDF}: 19.1/24$

Right Out: -4.768 ± 1.108 $\chi^2/\text{NDF}: 179.7/36$

Left In: 1.165 ± 1.371 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.777 ± 0.991 $\chi^2/\text{NDF}: 52.9/47$

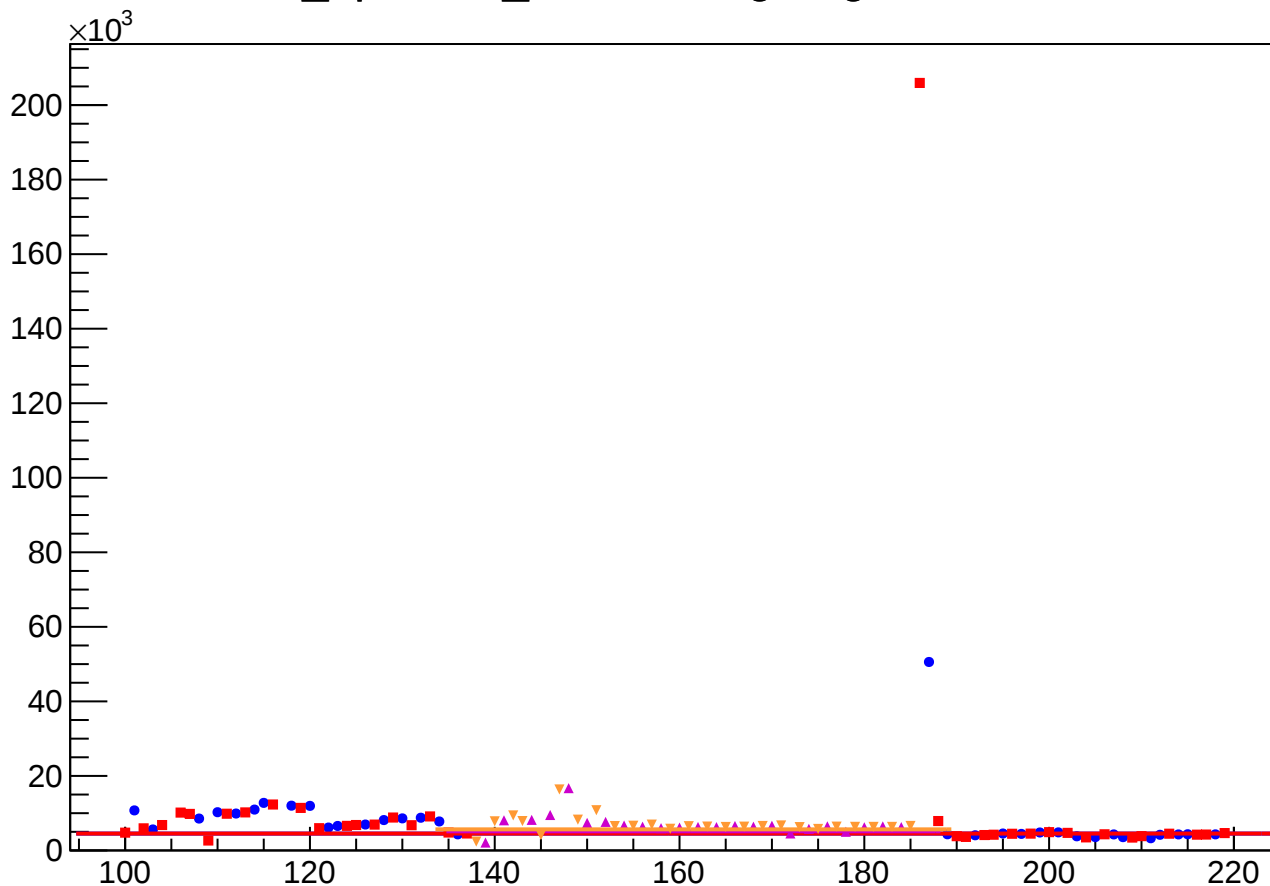
Right: -1.929 ± 0.790 $\chi^2/\text{NDF}: 223.7/69$

In: 1.074 ± 0.871 $\chi^2/\text{NDF}: 64.3/55$

Out: -2.852 ± 0.877 $\chi^2/\text{NDF}: 206.8/61$

All: -0.877 ± 0.618 $\chi^2/\text{NDF}: 281.2/117$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4525.179+/-0.798 χ^2/NDF : 3448293.2/32

Left Out: 5659.441+/-1.014 χ^2/NDF : 4128583.6/24

Right Out: 4531.239+/-0.784 χ^2/NDF : 3974046.1/36

Left In: 5137.772+/-0.970 χ^2/NDF : 5495609.7/22

Left: 5387.078+/-0.701 χ^2/NDF : 9762498.7/47

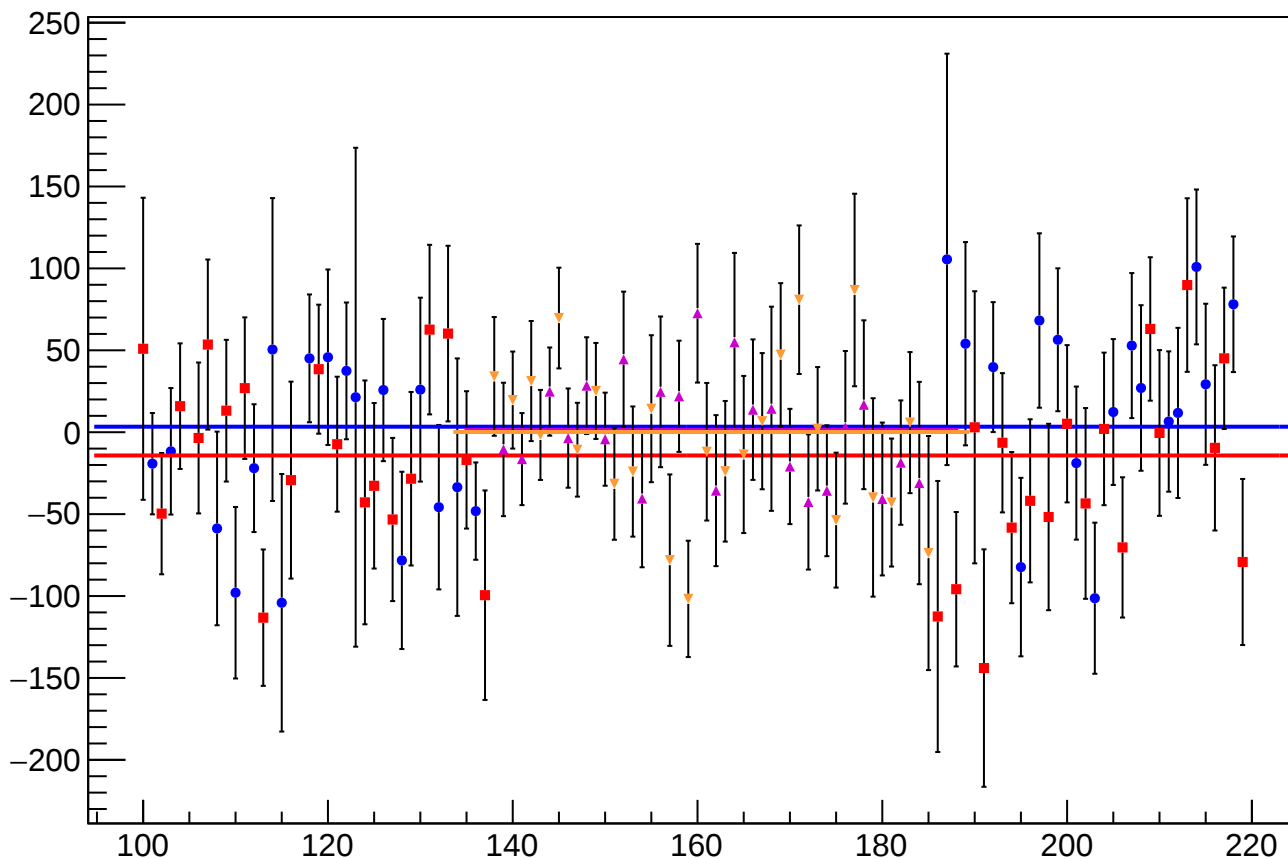
Right: 4528.263+/-0.559 χ^2/NDF : 7422368.6/69

In: 4772.359+/-0.616 χ^2/NDF : 9181952.1/55

Out: 4953.271+/-0.620 χ^2/NDF : 8878146.8/61

All: 4862.239+/-0.437 χ^2/NDF : 18102953.5/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 3.368 ± 8.254 χ^2/NDF : 39.8/32

Left Out: 0.143 ± 7.683 χ^2/NDF : 31.3/24

Right Out: -14.193 ± 8.062 χ^2/NDF : 41.7/36

Left In: 1.374 ± 7.990 χ^2/NDF : 13.3/22

Left: 0.734 ± 5.538 χ^2/NDF : 44.6/47

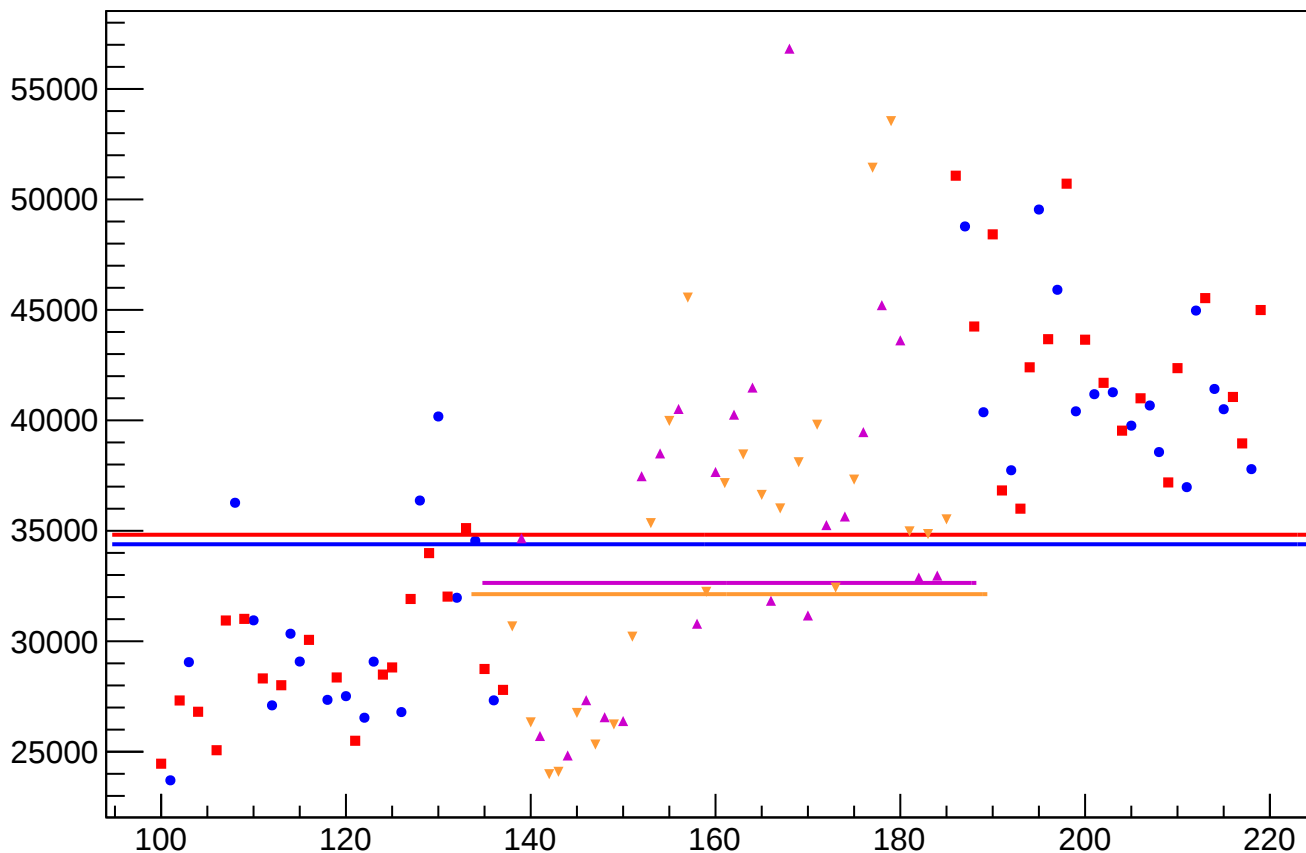
Right: -5.620 ± 5.767 χ^2/NDF : 83.8/69

In: 2.339 ± 5.741 χ^2/NDF : 53.1/55

Out: -6.681 ± 5.562 χ^2/NDF : 74.6/61

All: -2.314 ± 3.995 χ^2/NDF : 129.0/117

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34390.922 $\pm$ 5.837

χ^2/NDF : 1438879.7/32

Left: 32376.774 $\pm$ 3.916 χ^2/NDF : 2946456.2/47

Right: 34611.323 $\pm$ 4.078 χ^2/NDF : 3048888.3/69

Left Out: 32132.314 $\pm$ 5.433

χ^2/NDF : 1540079.4/24

In: 33487.616 $\pm$ 4.060 χ^2/NDF : 2887438.9/55

Right Out: 34821.569 $\pm$ 5.701

χ^2/NDF : 1607222.4/36

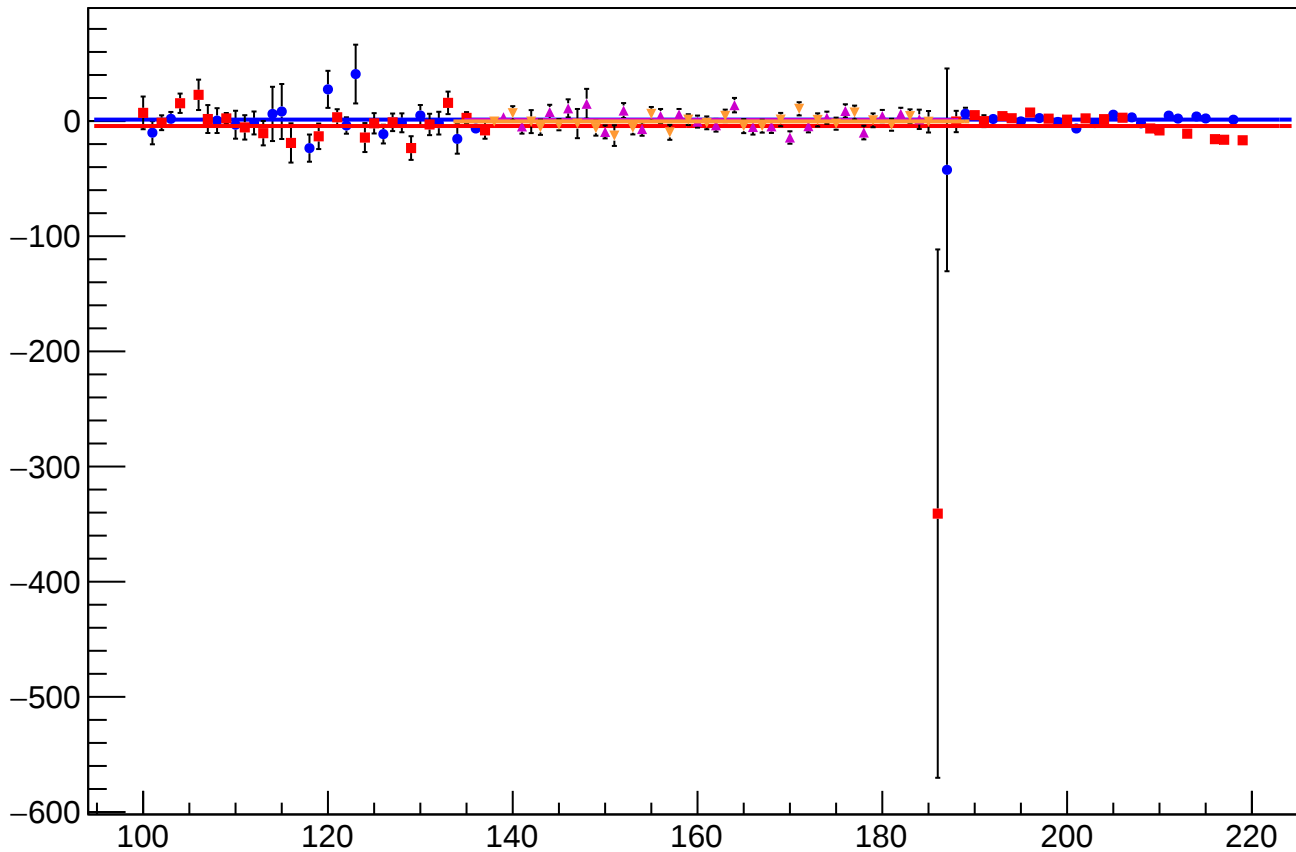
Out: 33412.318 $\pm$ 3.933 χ^2/NDF : 3263924.1/61

Left In: 32641.162 $\pm$ 5.650

χ^2/NDF : 1402162.4/22

All: 33448.774 $\pm$ 2.825 χ^2/NDF : 6151540.4/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.261 ± 0.650 $\chi^2/\text{NDF}: 40.2/32$

Left Out: -0.312 ± 1.172 $\chi^2/\text{NDF}: 17.6/24$

Right Out: -4.315 ± 0.655 $\chi^2/\text{NDF}: 170.2/36$

Left In: 0.908 ± 1.142 $\chi^2/\text{NDF}: 36.2/22$

Left: 0.313 ± 0.818 $\chi^2/\text{NDF}: 54.4/47$

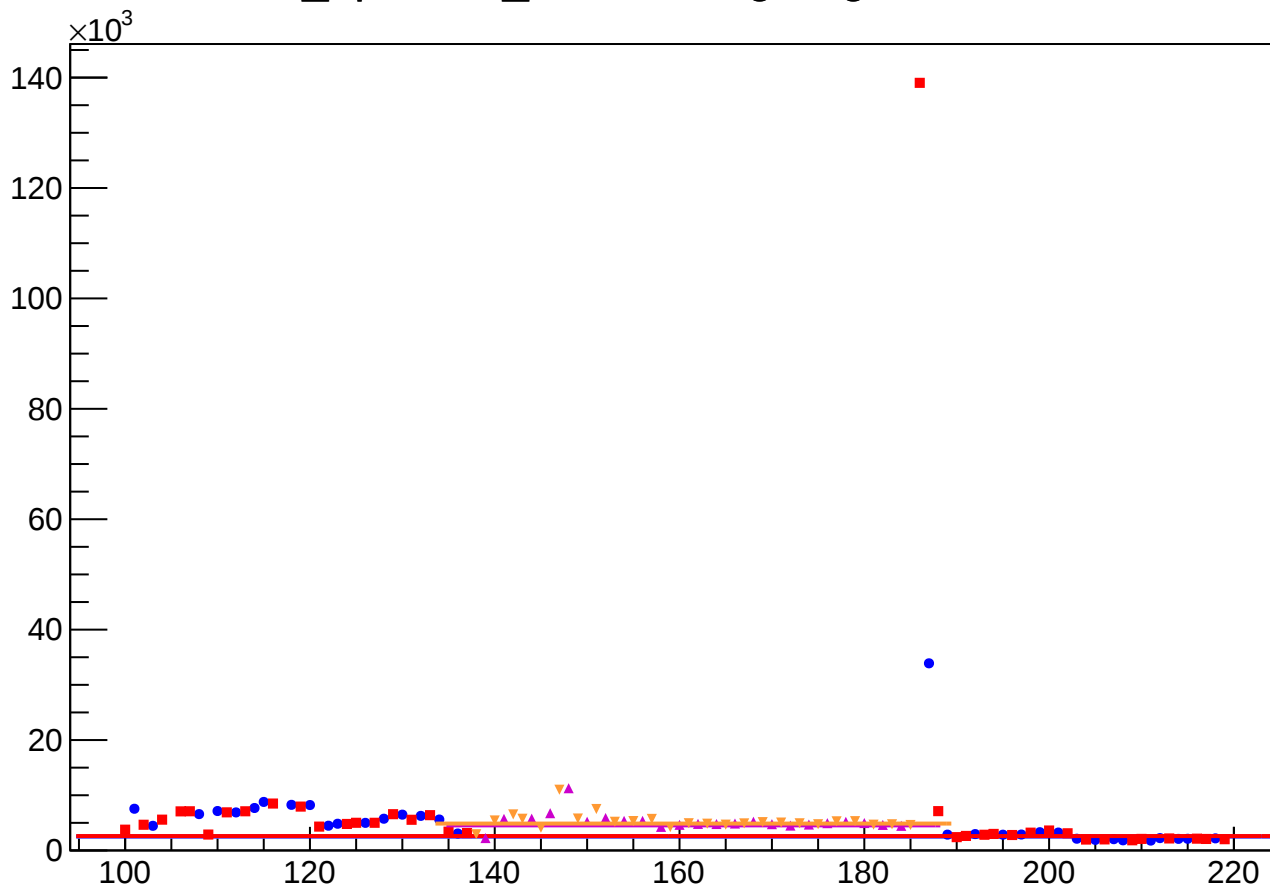
Right: -1.504 ± 0.462 $\chi^2/\text{NDF}: 247.0/69$

In: 1.174 ± 0.565 $\chi^2/\text{NDF}: 76.5/55$

Out: -3.361 ± 0.572 $\chi^2/\text{NDF}: 196.8/61$

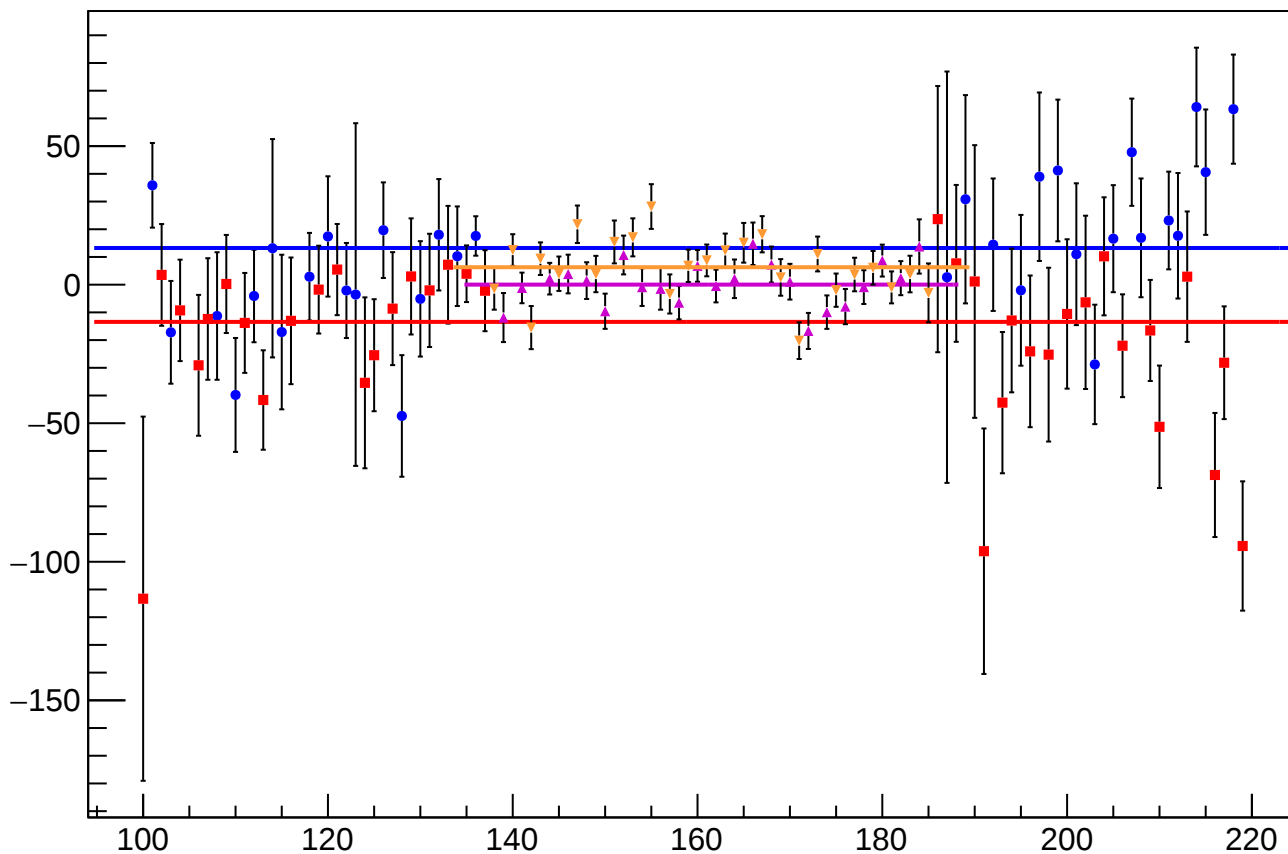
All: -1.065 ± 0.402 $\chi^2/\text{NDF}: 305.1/117$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2522.922+/-0.460	χ^2/NDF : 5544220.2/32	Left: 4702.320+/-0.578	χ^2/NDF : 4223993.0/47
Left Out: 4868.567+/-0.829	χ^2/NDF : 1511151.0/24	Right: 2564.397+/-0.326	χ^2/NDF : 11767228.4/69
Right Out: 2606.576+/-0.464	χ^2/NDF : 6206584.5/36	In: 3017.424+/-0.399	χ^2/NDF : 12910330.0/55
Left In: 4544.337+/-0.808	χ^2/NDF : 2634314.4/22	Out: 3145.776+/-0.405	χ^2/NDF : 13394959.4/61
		All: 3080.795+/-0.284	χ^2/NDF : 26356262.4/13

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 13.237 ± 3.342 $\chi^2/\text{NDF}: 48.7/32$

Left Out: 6.296 ± 1.310 $\chi^2/\text{NDF}: 56.5/24$

Right Out: -13.430 ± 3.442 $\chi^2/\text{NDF}: 44.7/36$

Left In: 0.020 ± 1.353 $\chi^2/\text{NDF}: 29.9/22$

Left: 3.259 ± 0.941 $\chi^2/\text{NDF}: 97.5/47$

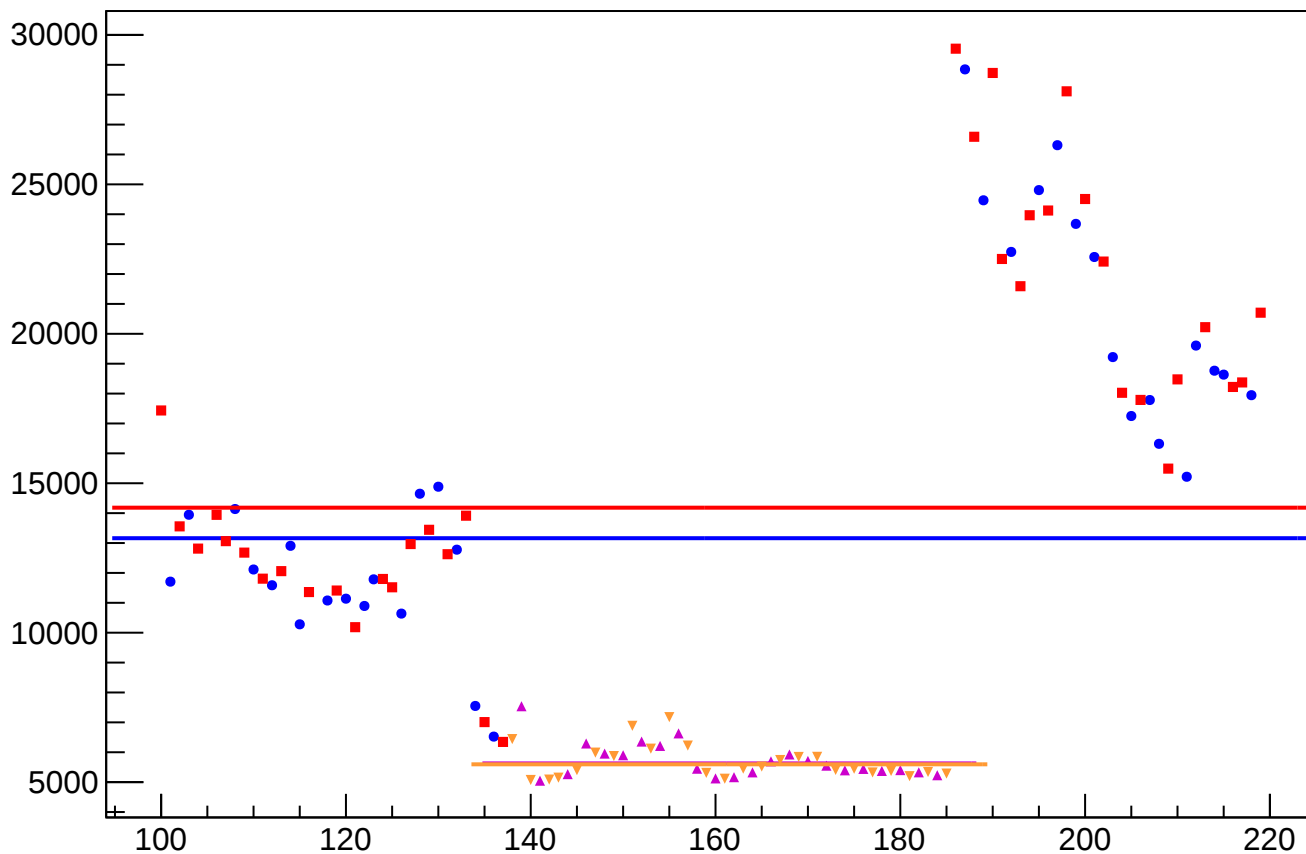
Right: 0.294 ± 2.398 $\chi^2/\text{NDF}: 124.3/69$

In: 1.881 ± 1.254 $\chi^2/\text{NDF}: 92.1/55$

Out: 3.799 ± 1.224 $\chi^2/\text{NDF}: 129.9/61$

All: 2.863 ± 0.876 $\chi^2/\text{NDF}: 223.2/117$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13161.526 $\pm$ 2.363 χ^2 /NDF: 5067569.2/32

Left Out: 5596.370 $\pm$ 0.926 χ^2 /NDF: 283998.1/24

Right Out: 14182.719 $\pm$ 2.434 χ^2 /NDF: 4982562.7/36

Left In: 5627.283 $\pm$ 0.957 χ^2 /NDF: 279318.7/22

Left: 5611.329 $\pm$ 0.666 χ^2 /NDF: 563855.6/47

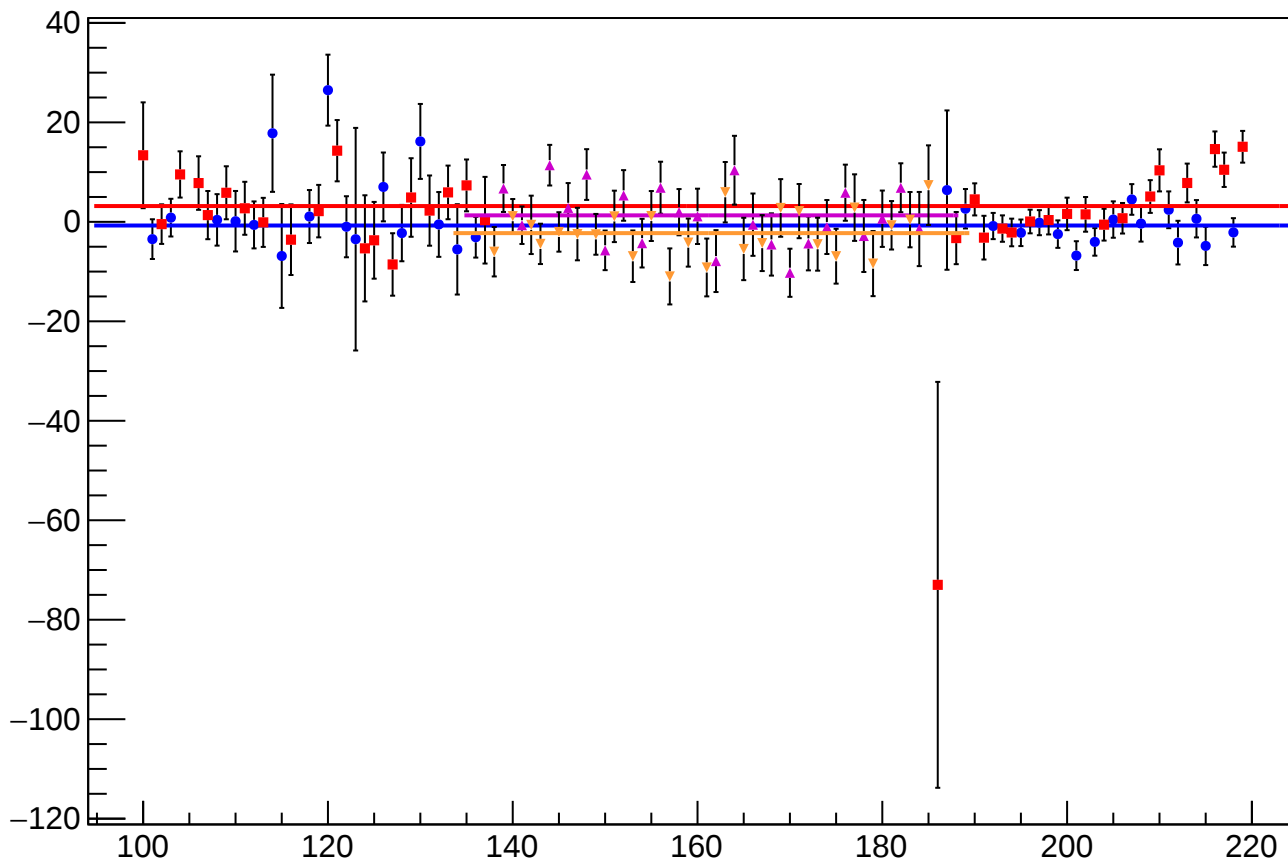
Right: 13657.181 $\pm$ 1.695 χ^2 /NDF: 10140747.0/69

In: 6688.153 $\pm$ 0.887 χ^2 /NDF: 14078275.6/55

Out: 6683.188 $\pm$ 0.866 χ^2 /NDF: 16139110.7/61

All: 6685.611 $\pm$ 0.620 χ^2 /NDF: 30217402.4/117

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.737 ± 0.701 χ^2/NDF : 38.5/32

Left Out: -2.268 ± 1.029 χ^2/NDF : 15.4/24

Right Out: 3.176 ± 0.679 χ^2/NDF : 67.8/36

Left In: 1.305 ± 1.077 χ^2/NDF : 30.8/22

Left: -0.562 ± 0.744 χ^2/NDF : 51.9/47

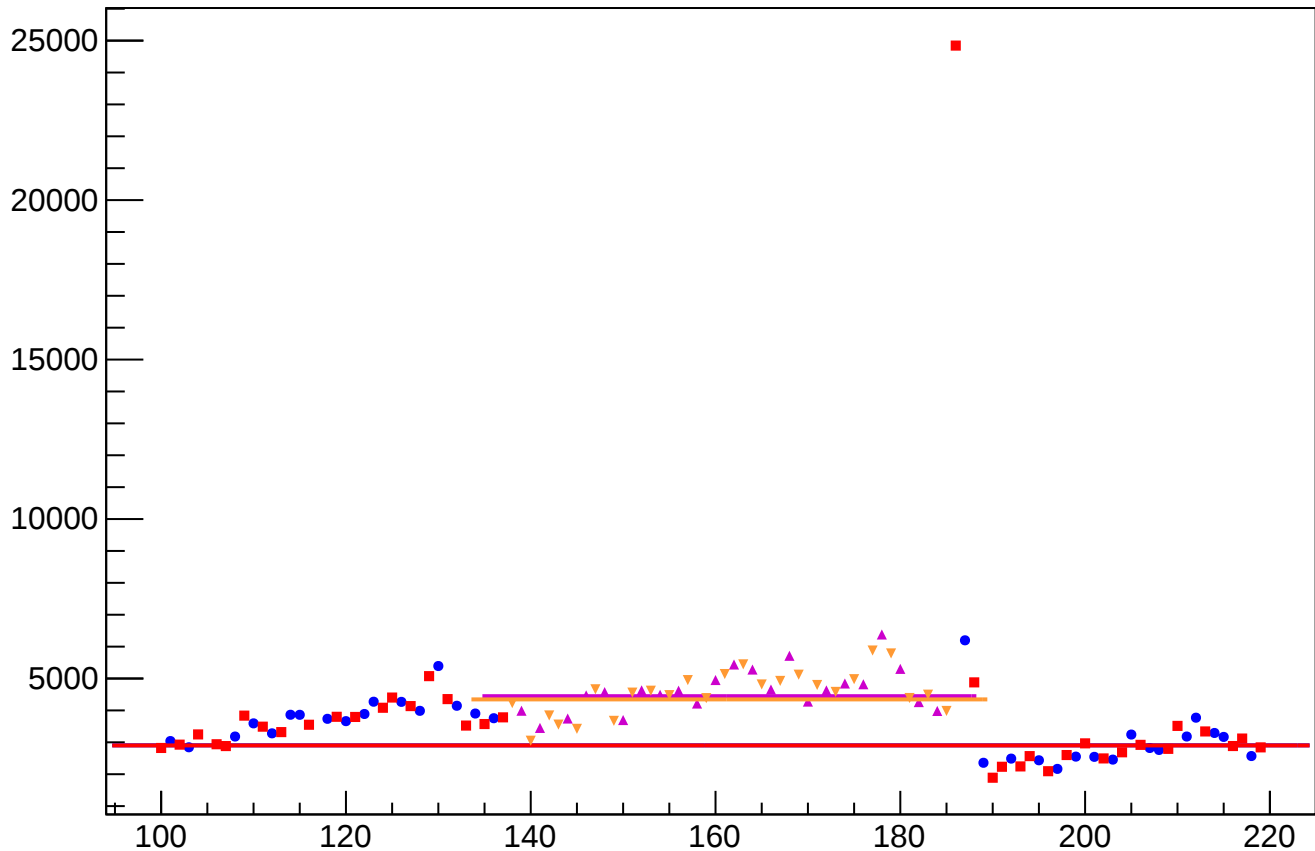
Right: 1.280 ± 0.488 χ^2/NDF : 122.4/69

In: -0.130 ± 0.587 χ^2/NDF : 71.8/55

Out: 1.525 ± 0.567 χ^2/NDF : 102.6/61

All: 0.727 ± 0.408 χ^2/NDF : 178.6/117

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2905.334 ± 0.495 χ^2/NDF : 1448908.8/32

Left Out: 4345.381 ± 0.728 χ^2/NDF : 1000636.1/24

Right Out: 2902.163 ± 0.480 χ^2/NDF : 2347149.3/36

Left In: 4446.181 ± 0.762 χ^2/NDF : 702797.6/22

Left: 4393.504 ± 0.526 χ^2/NDF : 1712588.4/47

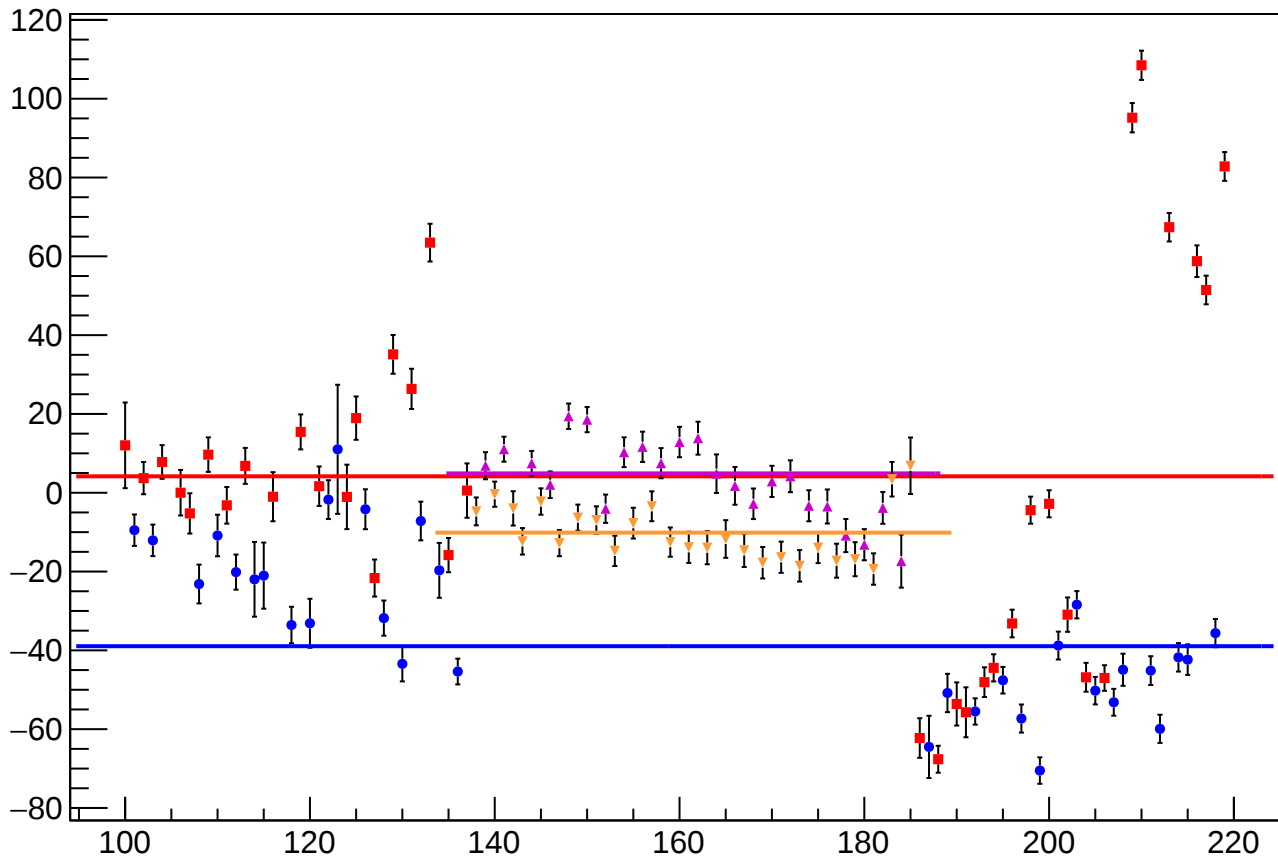
Right: 2903.700 ± 0.345 χ^2/NDF : 3796079.2/69

In: 3363.455 ± 0.415 χ^2/NDF : 5028000.5/55

Out: 3339.867 ± 0.401 χ^2/NDF : 6086522.4/61

All: 3351.245 ± 0.288 χ^2/NDF : 11116193.0/110

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -38.943 ± 0.733 $\chi^2/\text{NDF}: 577.8/32$

Left Out: -10.125 ± 0.775 $\chi^2/\text{NDF}: 67.9/24$

Right Out: 4.170 ± 0.709 $\chi^2/\text{NDF}: 4637.8/36$

Left In: 4.911 ± 0.797 $\chi^2/\text{NDF}: 127.9/22$

Left: -2.814 ± 0.556 $\chi^2/\text{NDF}: 378.7/47$

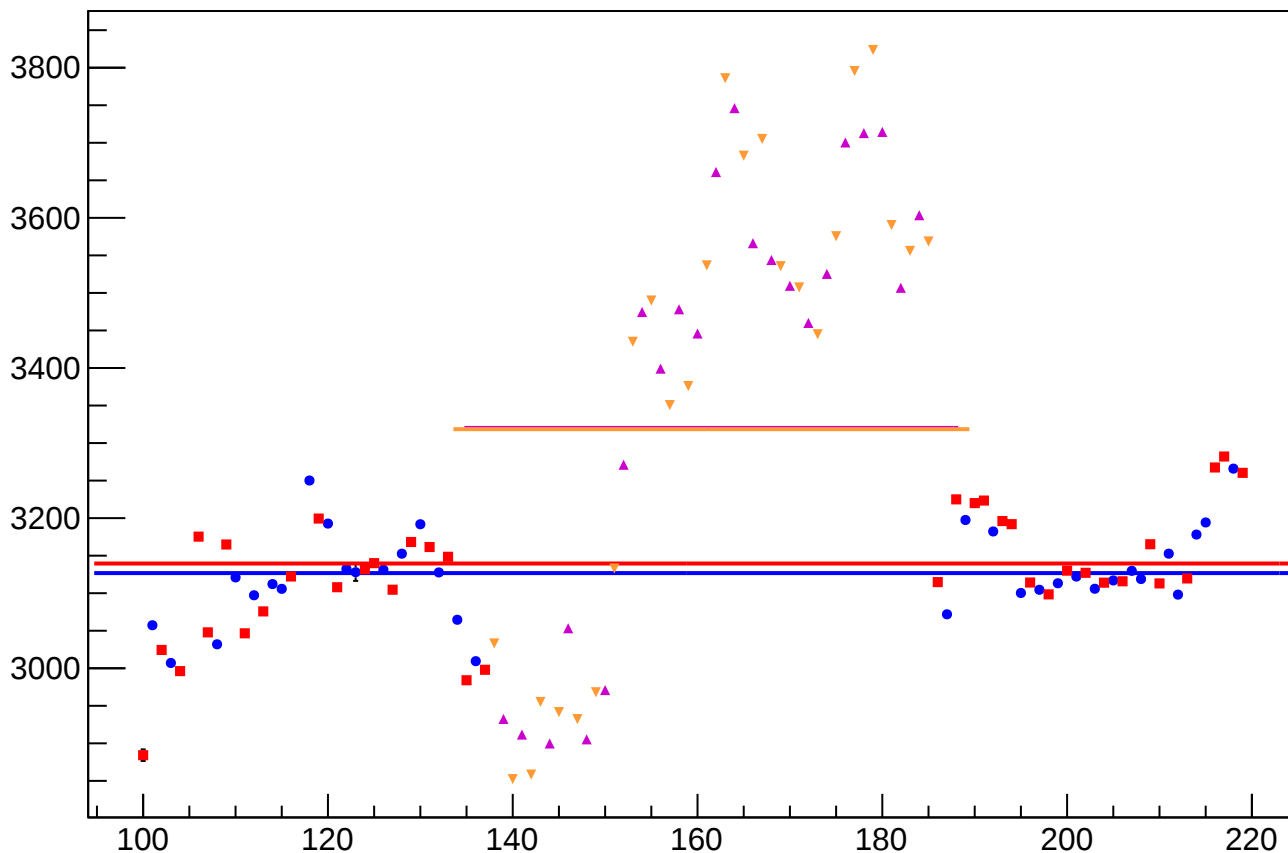
Right: -16.668 ± 0.510 $\chi^2/\text{NDF}: 7002.8/69$

In: -18.849 ± 0.540 $\chi^2/\text{NDF}: 2345.6/55$

Out: -2.339 ± 0.523 $\chi^2/\text{NDF}: 4890.8/61$

All: -10.340 ± 0.376 $\chi^2/\text{NDF}: 7719.0/117$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3126.785 $\pm$ 0.518 χ^2 /NDF: 13812.6/32

Left Out: 3318.506 $\pm$ 0.548 χ^2 /NDF:337694.2/24

Right Out: 3139.560 $\pm$ 0.501 χ^2 /NDF: 22191.0/36

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

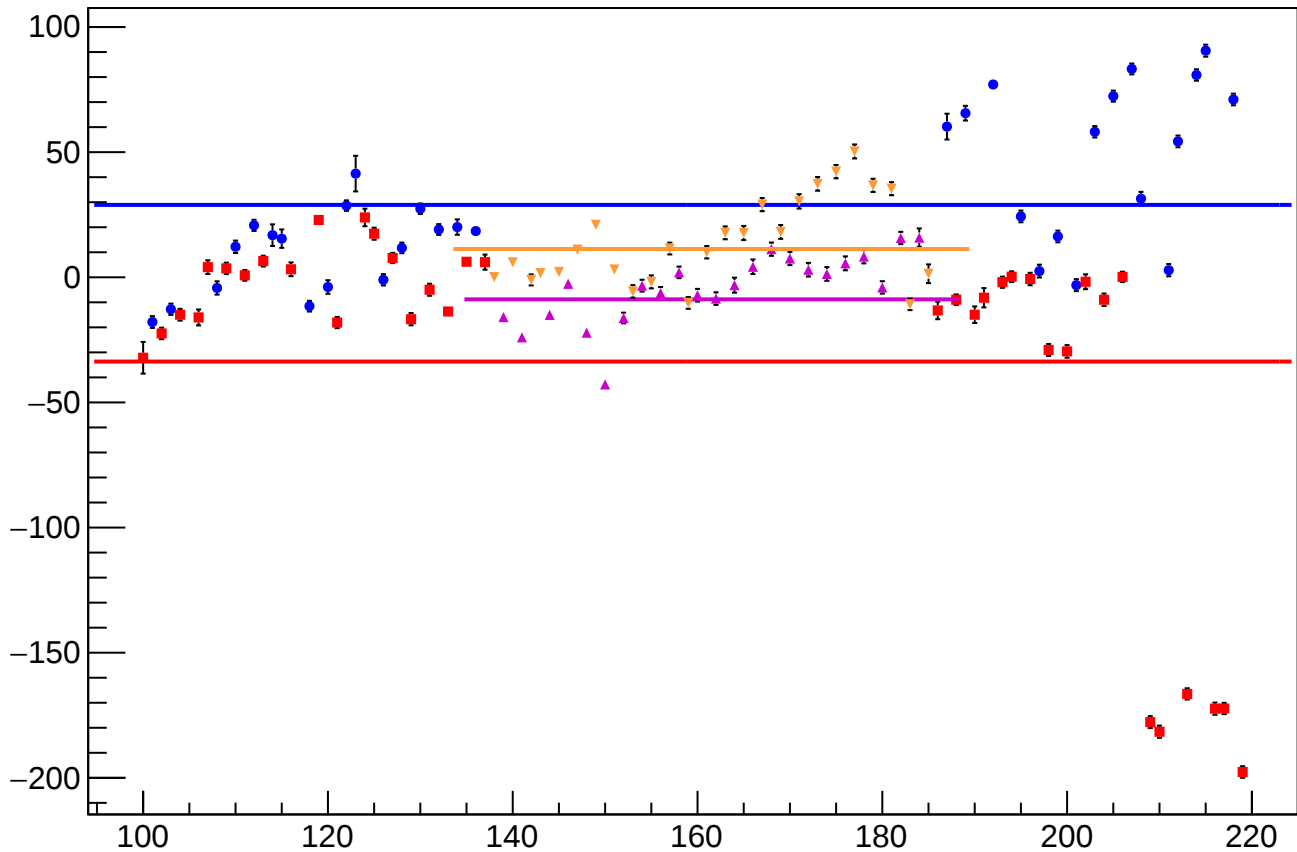
Right: 3133.385 $\pm$ 0.360 χ^2 /NDF: 36317.4/69

In: 3215.394 $\pm$ 0.382 χ^2 /NDF:365224.1/55

Out: 3221.035 $\pm$ 0.370 χ^2 /NDF:417896.2/61

All: 3218.301 $\pm$ 0.266 χ^2 /NDF: 783233.0/117

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 28.929 ± 0.412 χ^2/NDF : 5802.7/32

Left Out: 11.305 ± 0.454 χ^2/NDF : 1144.3/24

Right Out: -33.667 ± 0.398 χ^2/NDF : 28505.1/36

Left In: -8.815 ± 0.475 χ^2/NDF : 942.2/22

Left: 1.711 ± 0.328 χ^2/NDF : 3023.6/47

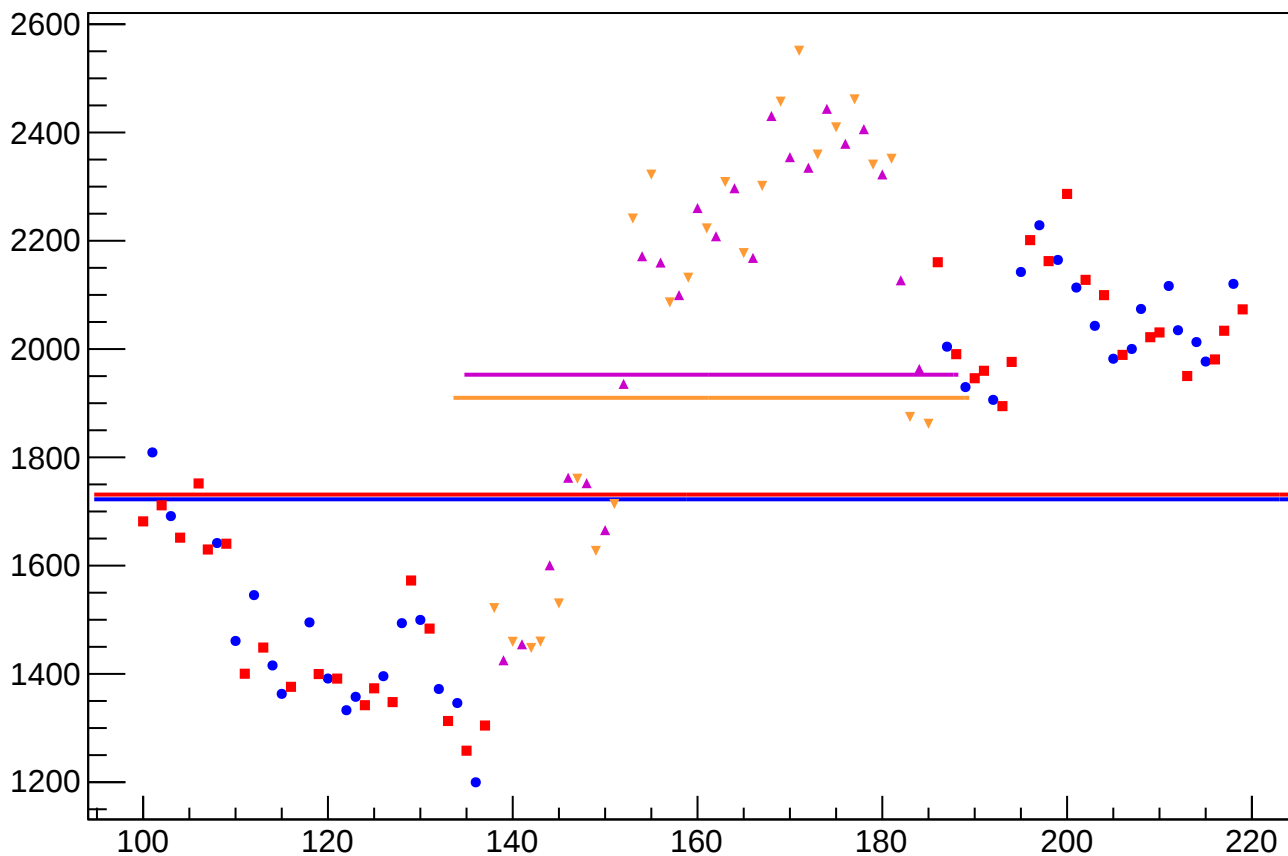
Right: -3.438 ± 0.286 χ^2/NDF : 46246.3/69

In: 12.741 ± 0.311 χ^2/NDF : 10345.2/55

Out: -14.111 ± 0.299 χ^2/NDF : 35198.3/61

All: -1.214 ± 0.216 χ^2/NDF : 49409.6/117

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1722.478 $\pm$ 0.291 χ^2 /NDF: 1318385.9/32

Left Out: 1909.963 $\pm$ 0.321 χ^2 /NDF:1399467.7/24

Right Out: 1731.214 $\pm$ 0.282 χ^2 /NDF: 1292797.0/36

Left In: 1952.637 $\pm$ 0.336 χ^2 /NDF:1065333.8/22

Left: 1930.313 $\pm$ 0.232 χ^2 /NDF: 2473233.3/47

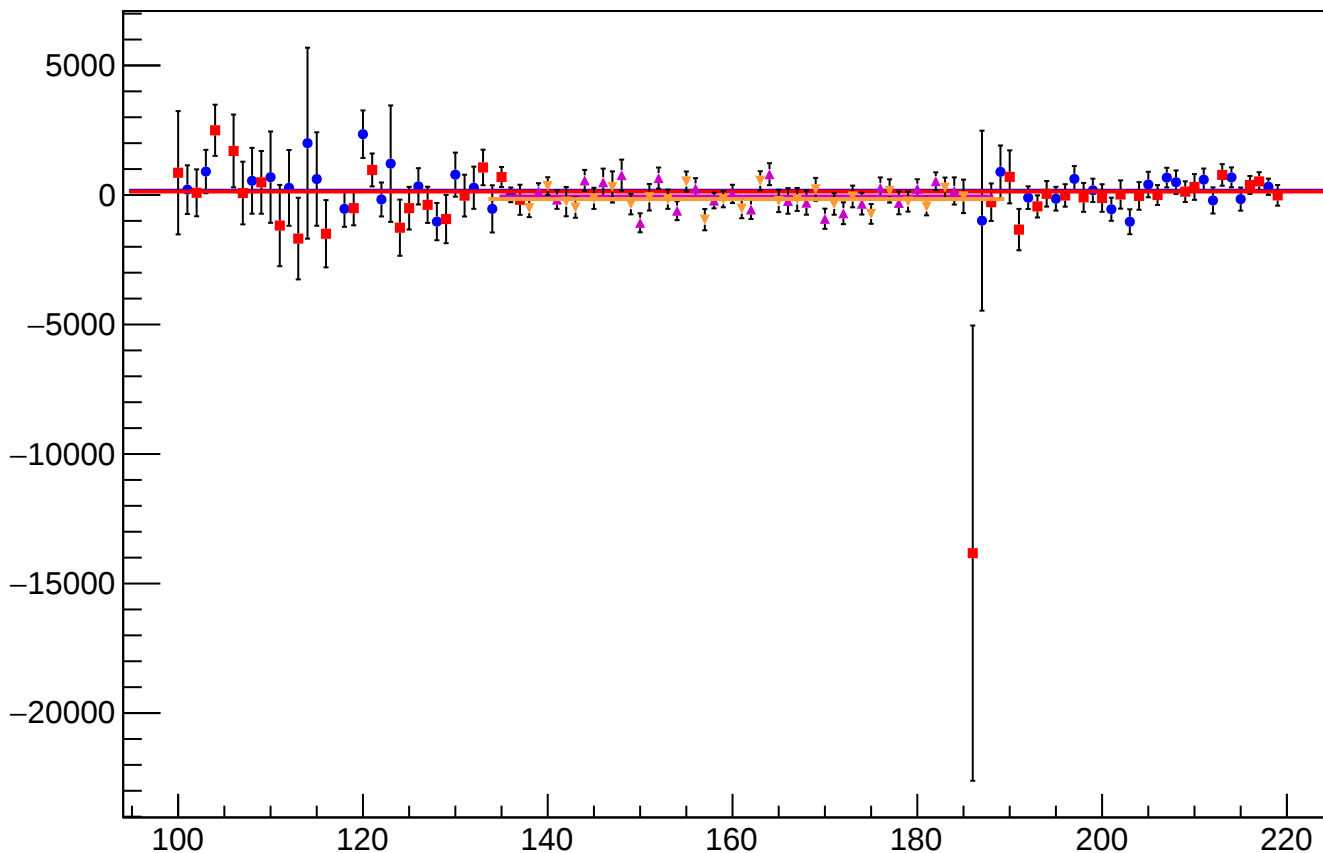
Right: 1726.995 $\pm$ 0.202 χ^2 /NDF: 2611648.0/69

In: 1821.193 $\pm$ 0.220 χ^2 /NDF:2651476.9/55

Out: 1808.944 $\pm$ 0.212 χ^2 /NDF:2867594.1/61

All: 1814.827 $\pm$ 0.153 χ^2 /NDF: 5520680.1/111

asym_sam1_mean vs Slug, Sign Corrected



Right In: 163.390+/-96.541 χ^2 /NDF: 30.4/32

Left Out: -157.242+/-80.796 χ^2 /NDF:22.0/24

Right Out: 133.765+/-96.368 χ^2 /NDF: 35.3/36

Left In: -58.934+/-82.584 χ^2 /NDF:38.5/22

Left: -109.164+/-57.753 χ^2 /NDF: 61.3/47

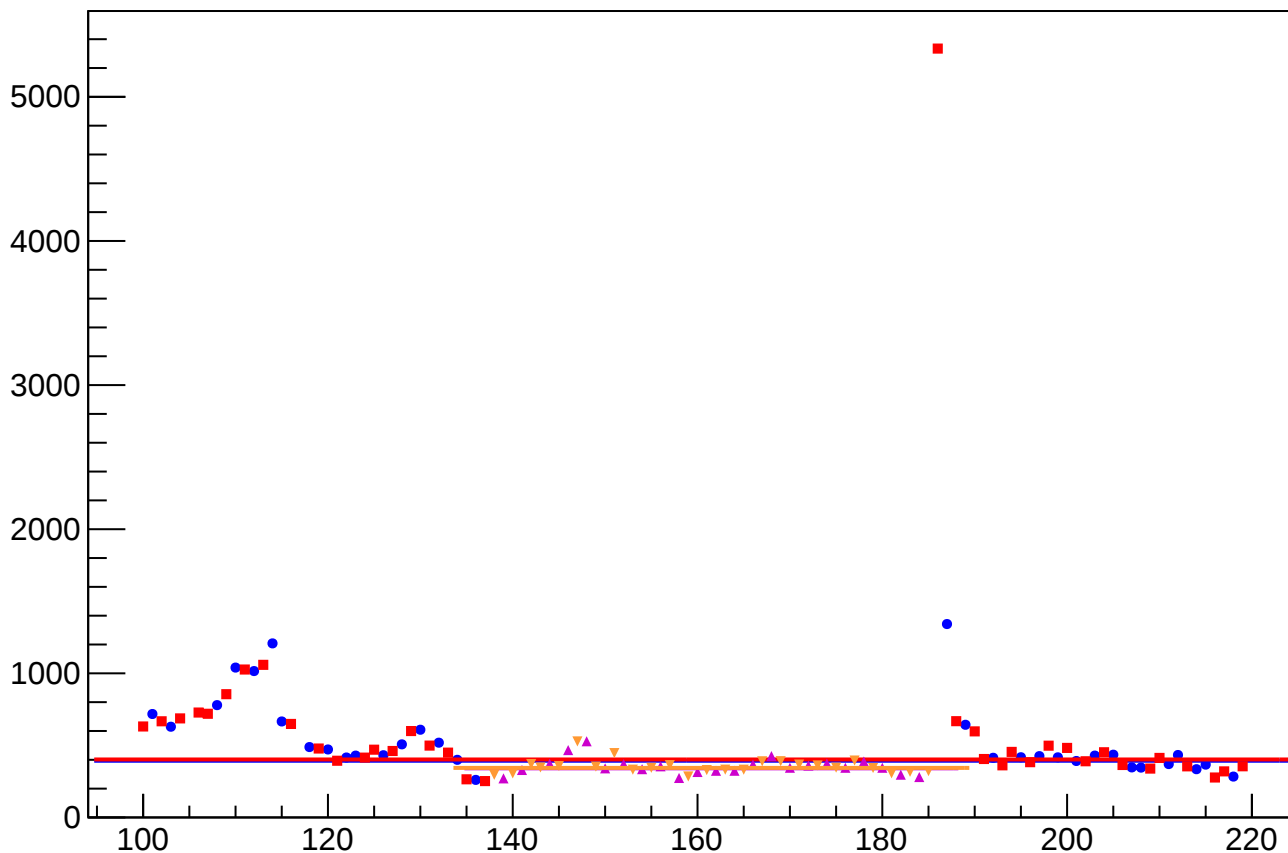
Right: 148.551+/-68.204 χ^2 /NDF: 65.8/69

In: 35.010+/-62.756 χ^2 /NDF:72.0/55

Out: -37.121+/-61.914 χ^2 /NDF:62.7/61

All: -1.542+/-44.074 χ^2 /NDF: 135.4/117

asym_sam1_rms vs Slug, Sign Corrected



Right In: 393.521+/-0.068 χ^2/NDF : 2771281.5/32

Left Out: 343.807+/-0.057 χ^2/NDF : 539431.0/24

Right Out: 402.296+/-0.068 χ^2/NDF : 3820527.6/36

Left In: 340.876+/-0.058 χ^2/NDF : 724672.0/22

Left: 342.374+/-0.041 χ^2/NDF : 1265389.7/47

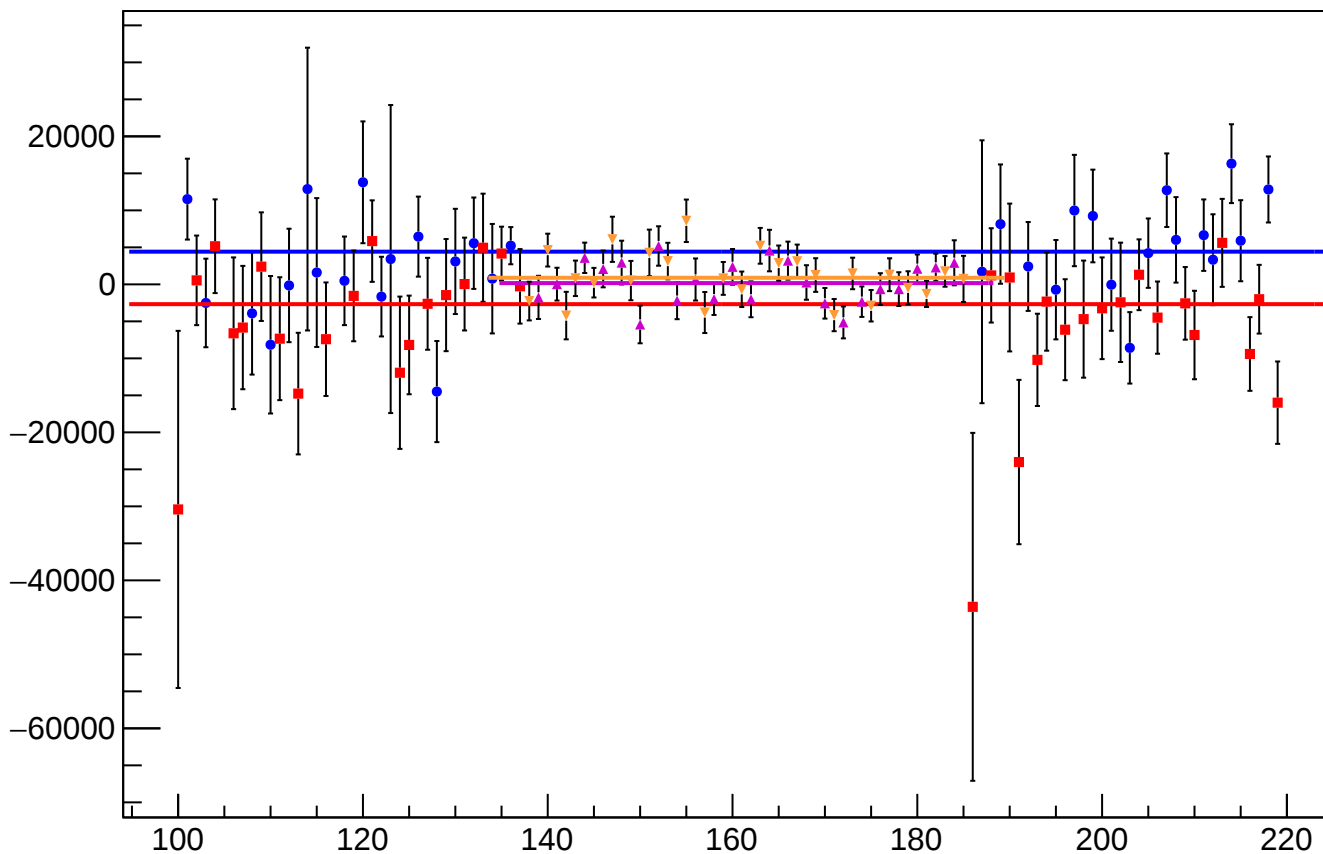
Right: 397.916+/-0.048 χ^2/NDF : 6600085.6/69

In: 363.121+/-0.044 χ^2/NDF : 3839369.0/55

Out: 367.950+/-0.044 χ^2/NDF : 4792587.3/61

All: 365.568+/-0.031 χ^2/NDF : 8637955.7/117

asym_sam2_mean vs Slug, Sign Corrected



Right In: 4418.980 $\pm$ 1020.823 χ^2 /NDF: 39.3/32

Left Out: 890.395 $\pm$ 473.262 χ^2 /NDF:38.0/24

Right Out: -2674.625 $\pm$ 1050.260 χ^2 /NDF: 35.6/36

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

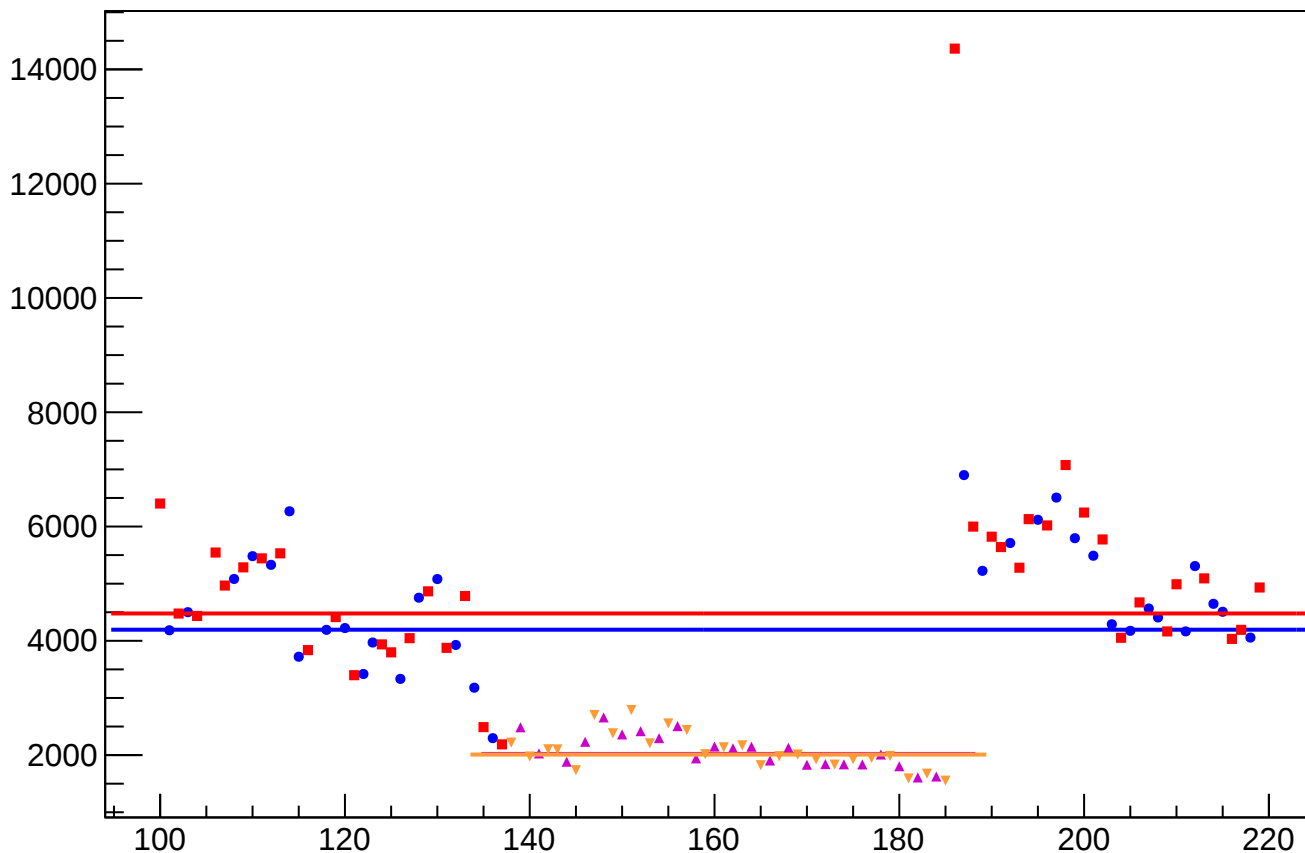
Right: 972.981 $\pm$ 732.017 χ^2 /NDF: 98.4/69

In: 962.508 $\pm$ 440.328 χ^2 /NDF:86.6/55

Out: 288.686 $\pm$ 431.479 χ^2 /NDF:83.1/61

All: 618.758 $\pm$ 308.182 χ^2 /NDF: 170.9/117

asym_sam2_rms vs Slug, Sign Corrected



Right In: 4194.545 $\pm$ 0.722 χ^2 /NDF: 2338785.0/32

Left Out: 2009.631 $\pm$ 0.335 χ^2 /NDF: 709977.6/24

Right Out: 4478.422 $\pm$ 0.743 χ^2 /NDF: 2577422.1/36

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

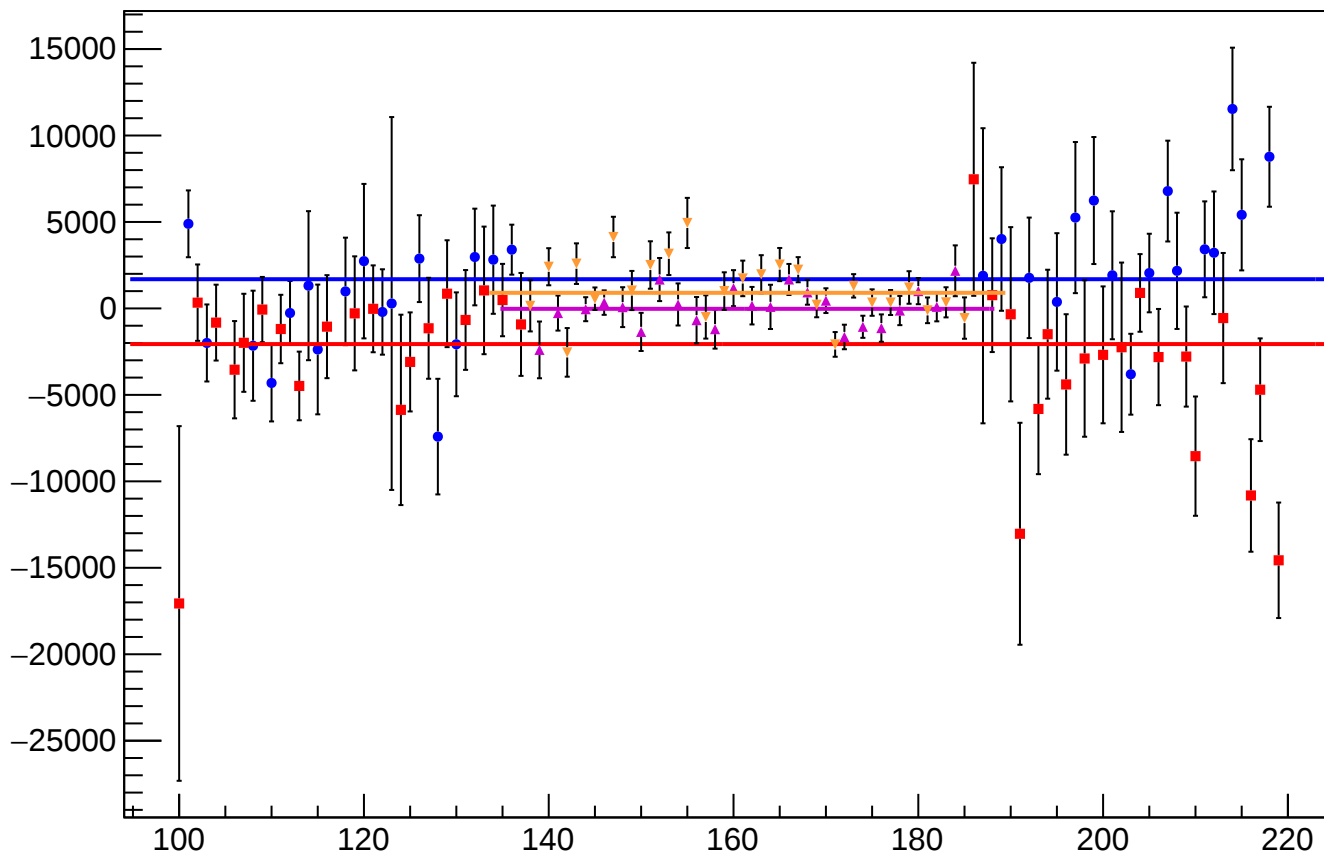
Right: 4332.449 $\pm$ 0.518 χ^2 /NDF: 4991341.2/69

In: 2424.892 $\pm$ 0.311 χ^2 /NDF: 10296626.3/55

Out: 2426.317 $\pm$ 0.305 χ^2 /NDF: 12473262.7/61

All: 2425.619 $\pm$ 0.218 χ^2 /NDF: 22769899.7/122

asym_sam3_mean vs Slug, Sign Corrected



Right In: 1689.380+/-494.708 χ^2/NDF : 55.1/32

Left Out: 902.091+/-185.850 χ^2/NDF : 63.5/24

Right Out: -2061.735+/-489.576 χ^2/NDF : 46.7/36

Left In: -23.529+/-188.137 χ^2/NDF : 28.2/22

Left: 444.940+/-132.217 χ^2/NDF : 104.0/47

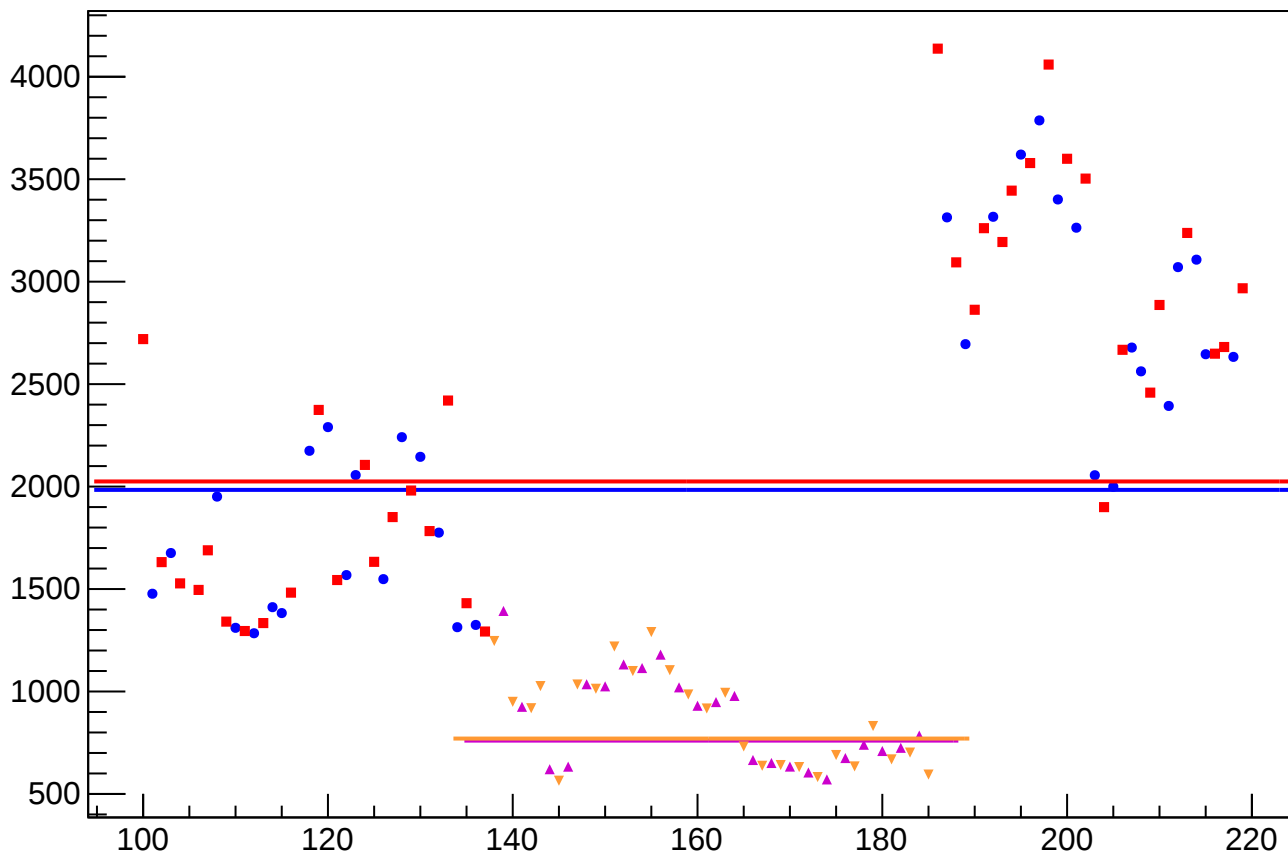
Right: -205.736+/-347.983 χ^2/NDF : 130.8/69

In: 192.902+/-175.850 χ^2/NDF : 93.8/55

Out: 528.779+/-173.752 χ^2/NDF : 142.3/61

All: 362.856+/-123.596 χ^2/NDF : 237.9/117

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1983.882 $\pm$ 0.350 χ^2/NDF : 3810790.5/32

Left Out: 770.320 $\pm$ 0.131 χ^2/NDF : 2287655.1/24

Right Out: 2025.034 $\pm$ 0.346 χ^2/NDF : 4613699.2/36

Left In: 760.352 $\pm$ 0.133 χ^2/NDF : 1986749.8/22

Left: 765.397 $\pm$ 0.093 χ^2/NDF : 4277246.5/47

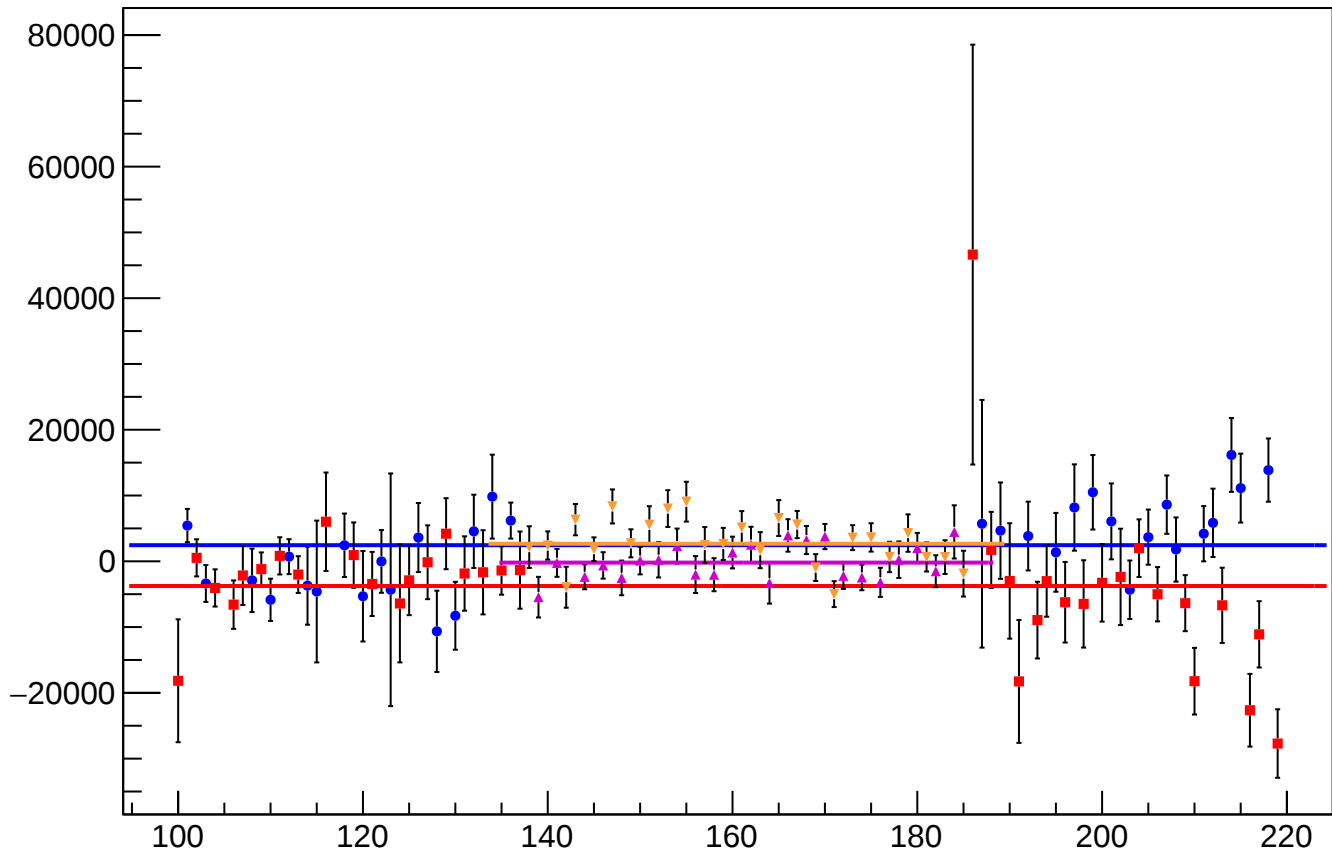
Right: 2004.673 $\pm$ 0.246 χ^2/NDF : 8431481.5/69

In: 914.949 $\pm$ 0.124 χ^2/NDF : 16485577.2/55

Out: 928.359 $\pm$ 0.123 χ^2/NDF : 18383246.4/61

All: 921.734 $\pm$ 0.087 χ^2/NDF : 34874709.1/11

asym_sam4_mean vs Slug, Sign Corrected



Right In: 2448.802 $\pm$ 795.639 χ^2 /NDF: 52.2/32

Left Out: 2665.587 $\pm$ 479.773 χ^2 /NDF: 49.2/24

Right Out: -3758.799 $\pm$ 760.938 χ^2 /NDF: 68.1/36

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

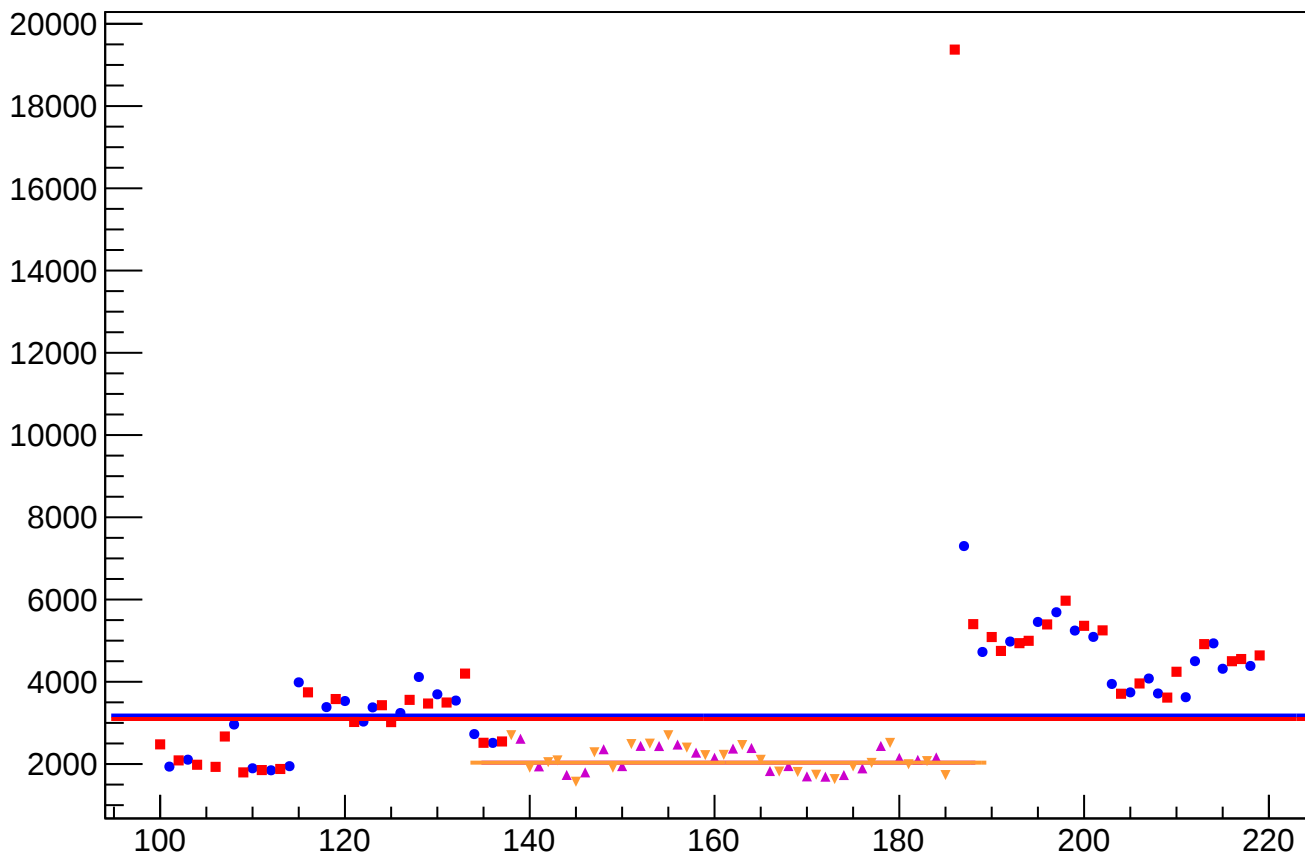
Right: -793.314 $\pm$ 549.923 χ^2 /NDF: 152.1/69

In: 533.321 $\pm$ 418.508 χ^2 /NDF: 86.0/55

Out: 838.148 $\pm$ 405.840 χ^2 /NDF: 168.3/61

All: 690.418 $\pm$ 291.348 χ^2 /NDF: 254.6/117

asym_sam4_rms vs Slug, Sign Corrected



Right In: 3179.117+/-0.563 χ^2/NDF : 4171605.4/32

Left Out: 2033.337+/-0.339 χ^2/NDF : 824062.2/24

Right Out: 3095.115+/-0.538 χ^2/NDF : 5786790.7/36

Left In: 2032.655+/-0.348 χ^2/NDF : 652763.7/22

Left: 2033.004+/-0.243 χ^2/NDF : 1476827.9/47

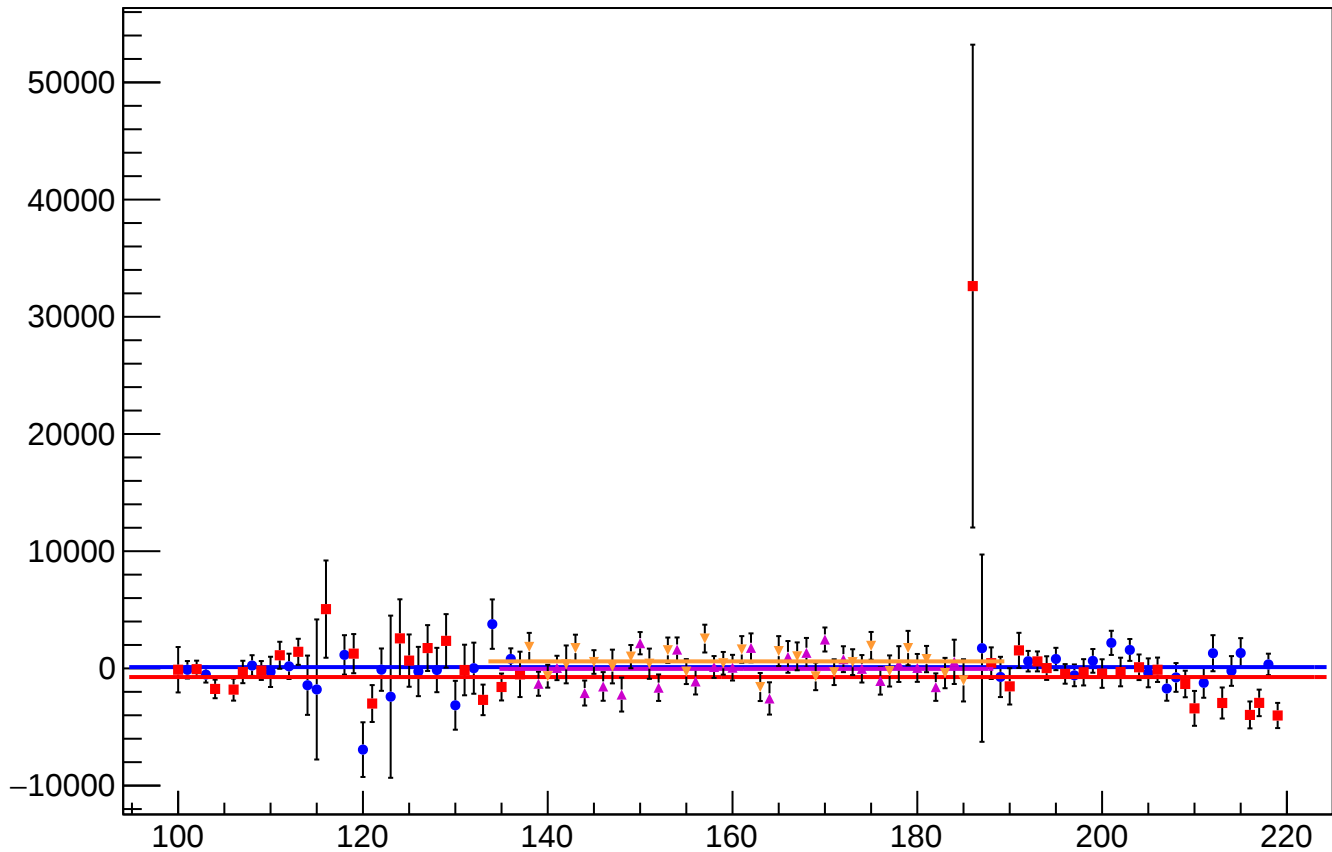
Right: 3135.244+/-0.389 χ^2/NDF : 9970039.6/69

In: 2349.856+/-0.296 χ^2/NDF : 7828020.1/55

Out: 2335.363+/-0.287 χ^2/NDF : 9397209.4/61

All: 2342.387+/-0.206 χ^2/NDF : 17226465.6/121

asym_sam5_mean vs Slug, Sign Corrected



Right In: 110.747 ± 209.138 χ^2/NDF : 32.3/32

Left Out: 600.005 ± 234.968 χ^2/NDF : 18.5/24

Right Out: -738.345 ± 196.924 χ^2/NDF : 61.7/36

Left In: -41.559 ± 240.807 χ^2/NDF : 36.4/22

Left: 287.096 ± 168.174 χ^2/NDF : 58.5/47

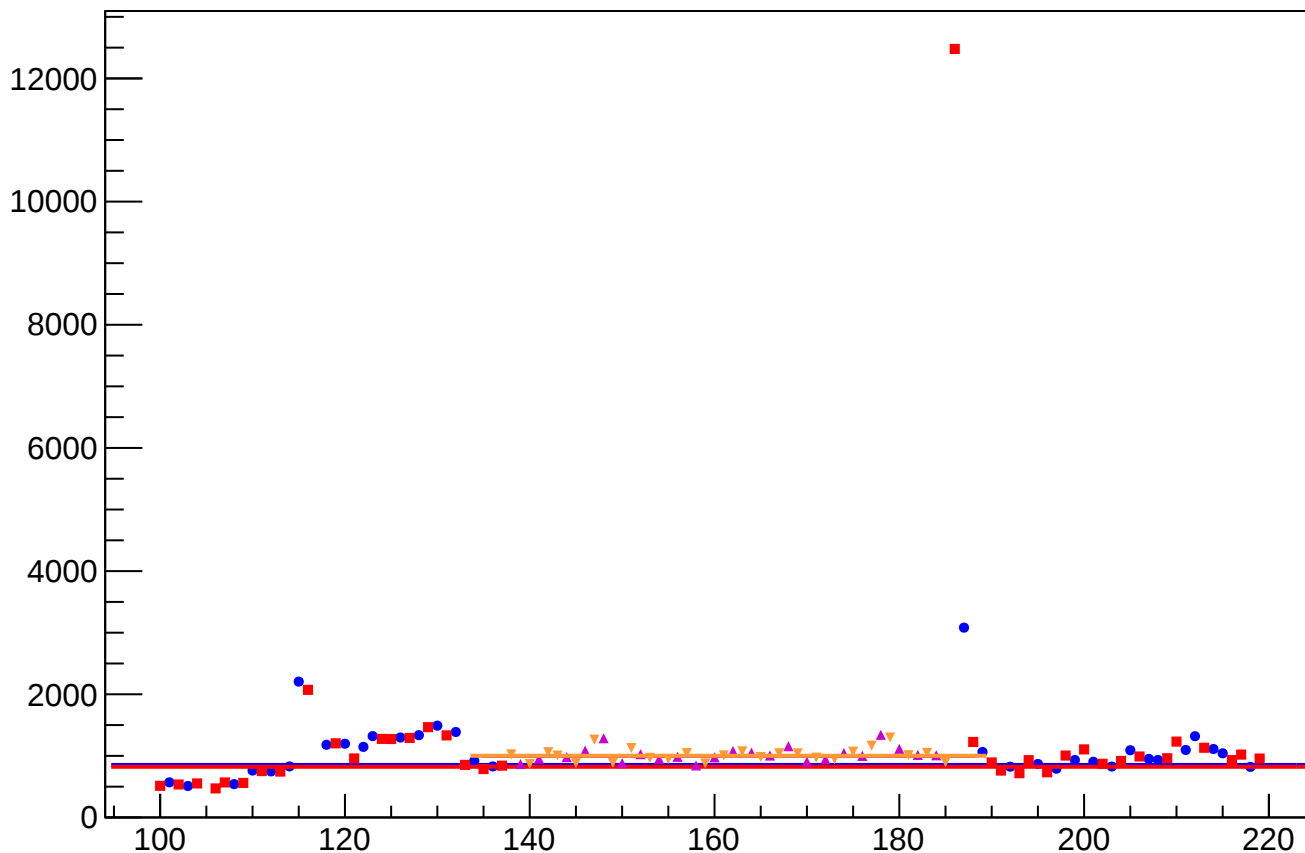
Right: -339.315 ± 143.370 χ^2/NDF : 102.8/69

In: 45.261 ± 157.901 χ^2/NDF : 68.9/55

Out: -186.152 ± 150.928 χ^2/NDF : 99.3/61

All: -75.668 ± 109.104 χ^2/NDF : 169.3/117

asym_sam5_rms vs Slug, Sign Corrected



Right In: 852.732+/-0.148 χ^2/NDF : 2590728.1/32

Left Out: 1001.472+/-0.166 χ^2/NDF : 370299.3/24

Right Out: 822.888+/-0.139 χ^2/NDF : 3585154.5/36

Left In: 998.050+/-0.170 χ^2/NDF : 404656.2/22

Left: 999.803+/-0.119 χ^2/NDF : 775162.3/47

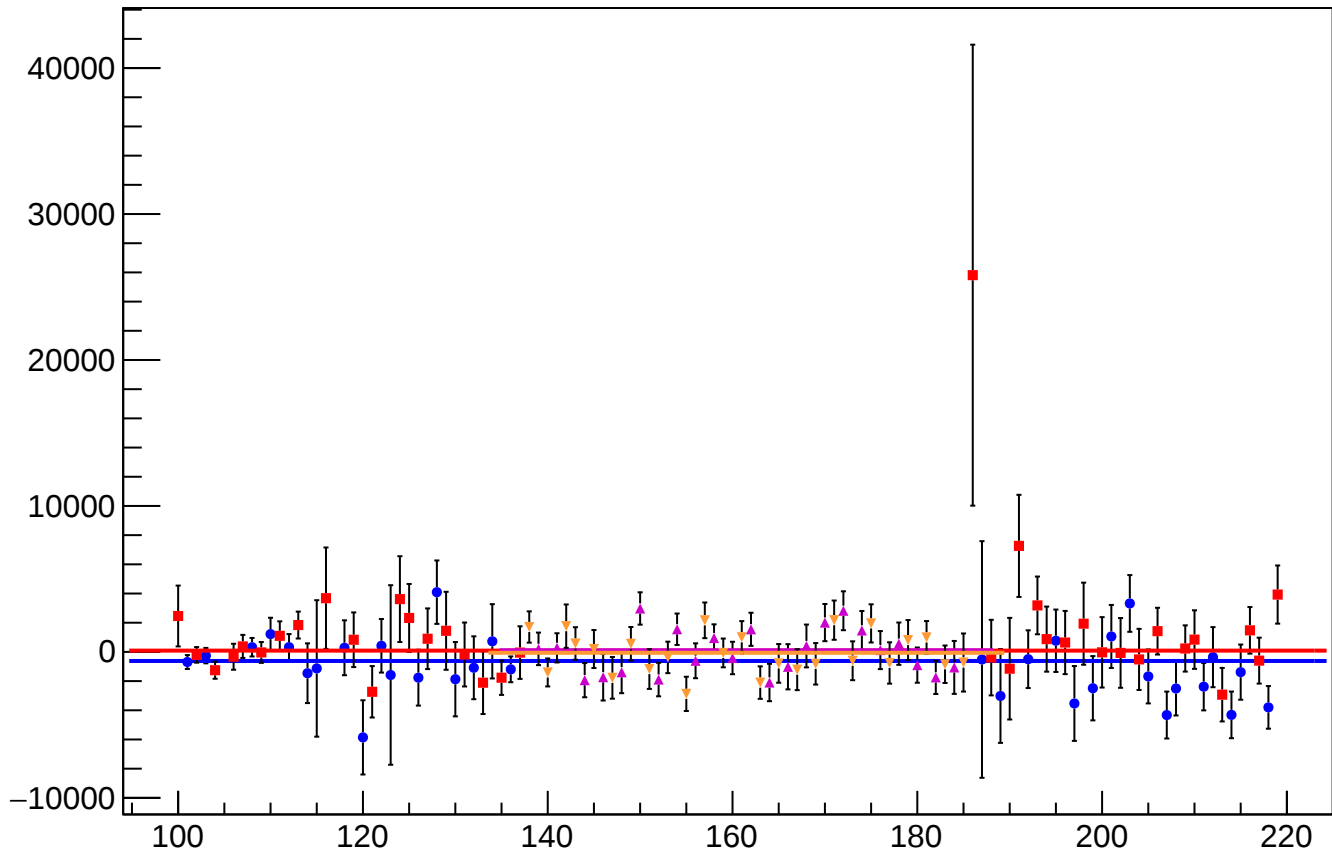
Right: 836.913+/-0.101 χ^2/NDF : 6197470.1/69

In: 915.213+/-0.112 χ^2/NDF : 3410563.1/55

Out: 896.570+/-0.107 χ^2/NDF : 4634090.9/61

All: 905.471+/-0.077 χ^2/NDF : 8059223.3/117

asym_sam6_mean vs Slug, Sign Corrected



Right In: -620.915 $\pm$ 223.241 χ^2/NDF : 43.4/32

Left Out: -59.827 $\pm$ 246.503 χ^2/NDF :31.0/24

Right Out: 88.442 $\pm$ 220.491 χ^2/NDF : 40.4/36

Left In: 112.398 $\pm$ 255.409 χ^2/NDF :34.9/22

Left: 23.230 $\pm$ 177.369 χ^2/NDF : 66.1/47

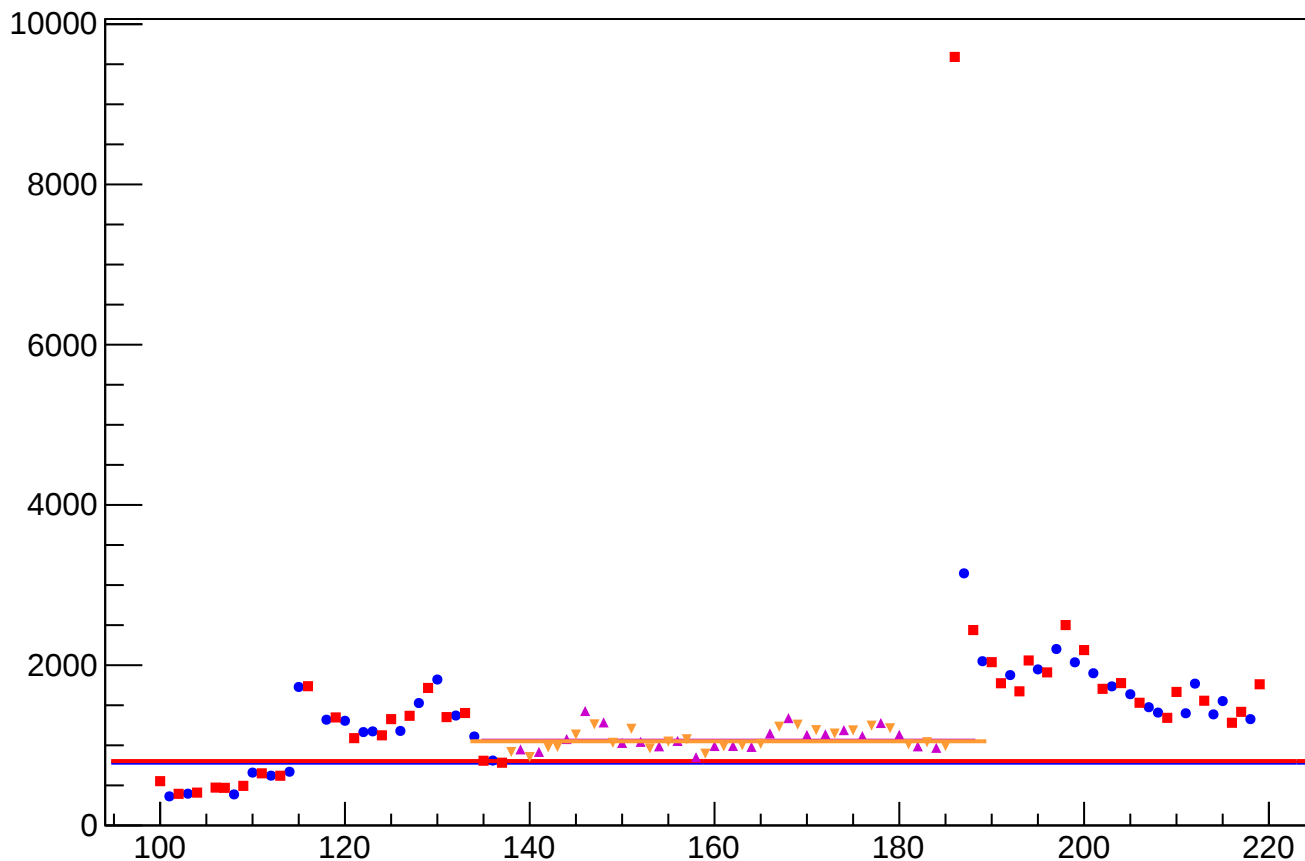
Right: -261.841 $\pm$ 156.874 χ^2/NDF : 89.0/69

In: -303.321 $\pm$ 168.085 χ^2/NDF :83.0/55

Out: 22.541 $\pm$ 164.340 χ^2/NDF :71.6/61

All: -136.720 $\pm$ 117.508 χ^2/NDF : 156.5/117

asym_sam6_rms vs Slug, Sign Corrected



Right In: 783.363+/-0.158 χ^2/NDF : 11409713.9/32

Left Out: 1050.649+/-0.174 χ^2/NDF : 483144.2/24

Right Out: 803.696+/-0.156 χ^2/NDF : 12170774.3/36

Left In: 1058.097+/-0.181 χ^2/NDF : 528574.7/22

Left: 1054.241+/-0.125 χ^2/NDF : 1012599.4/47

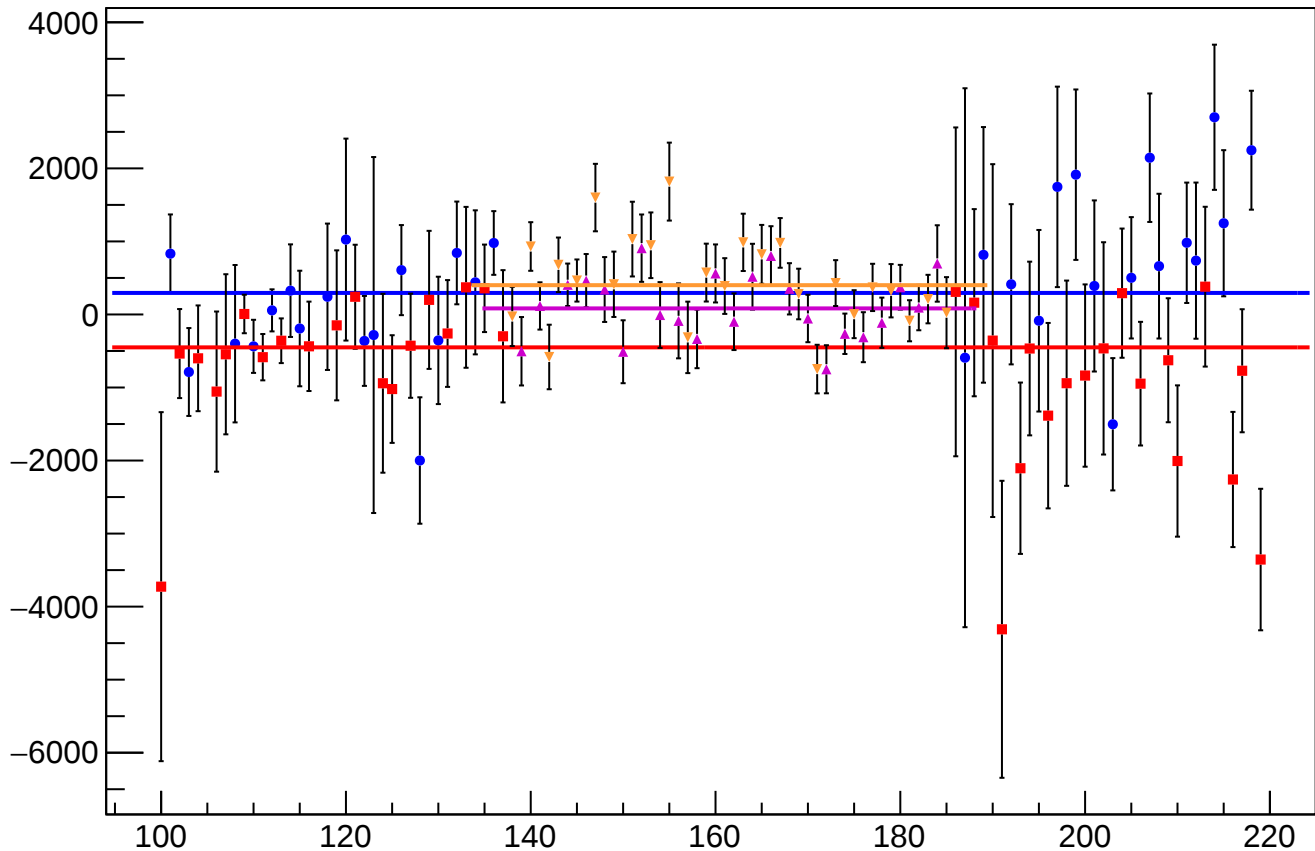
Right: 793.655+/-0.111 χ^2/NDF : 23588887.5/69

In: 902.349+/-0.119 χ^2/NDF : 13250165.2/55

Out: 913.460+/-0.116 χ^2/NDF : 13769031.6/61

All: 908.029+/-0.083 χ^2/NDF : 27023665.1/11

asym_sam7_mean vs Slug, Sign Corrected



Right In: 294.856 ± 125.552 $\chi^2/\text{NDF}: 47.4/32$

Left Out: 400.988 ± 74.546 $\chi^2/\text{NDF}: 52.1/24$

Right Out: -450.506 ± 116.476 $\chi^2/\text{NDF}: 33.9/36$

Left In: 82.890 ± 76.904 $\chi^2/\text{NDF}: 29.0/22$

Left: 246.889 ± 53.526 $\chi^2/\text{NDF}: 89.9/47$

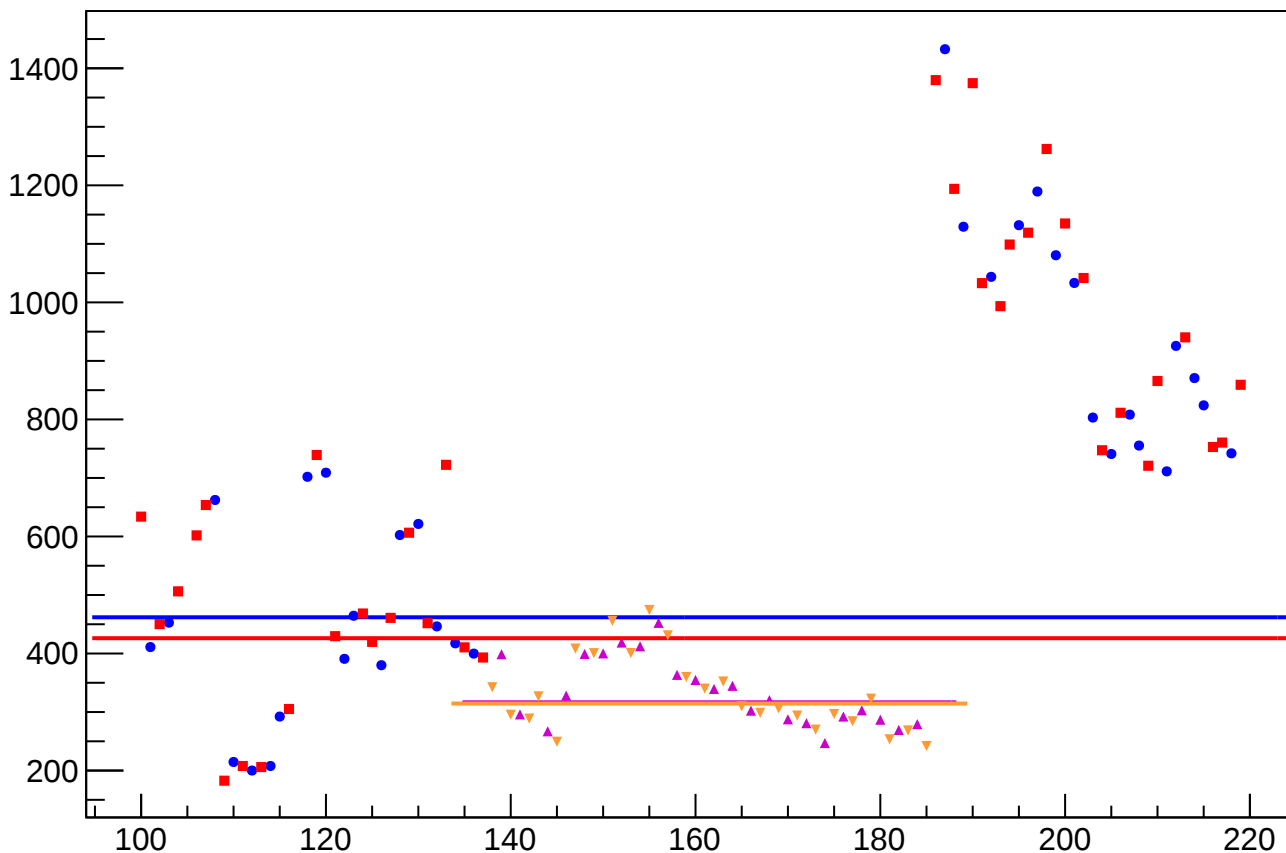
Right: -105.735 ± 85.390 $\chi^2/\text{NDF}: 100.2/69$

In: 140.720 ± 65.579 $\chi^2/\text{NDF}: 78.5/55$

Out: 153.555 ± 62.788 $\chi^2/\text{NDF}: 123.8/61$

All: 147.416 ± 45.352 $\chi^2/\text{NDF}: 202.3/117$

asym_sam7_rms vs Slug, Sign Corrected



Right In: 461.906 $\pm$ 0.089 χ^2 /NDF: 9051719.0/32

Left Out: 314.538 $\pm$ 0.053 χ^2 /NDF: 1112445.6/24

Right Out: 426.178 $\pm$ 0.082 χ^2 /NDF: 12030222.4/36

Left In: 316.647 $\pm$ 0.054 χ^2 /NDF: 920874.0/22

Left: 315.560 $\pm$ 0.038 χ^2 /NDF: 2034094.8/47

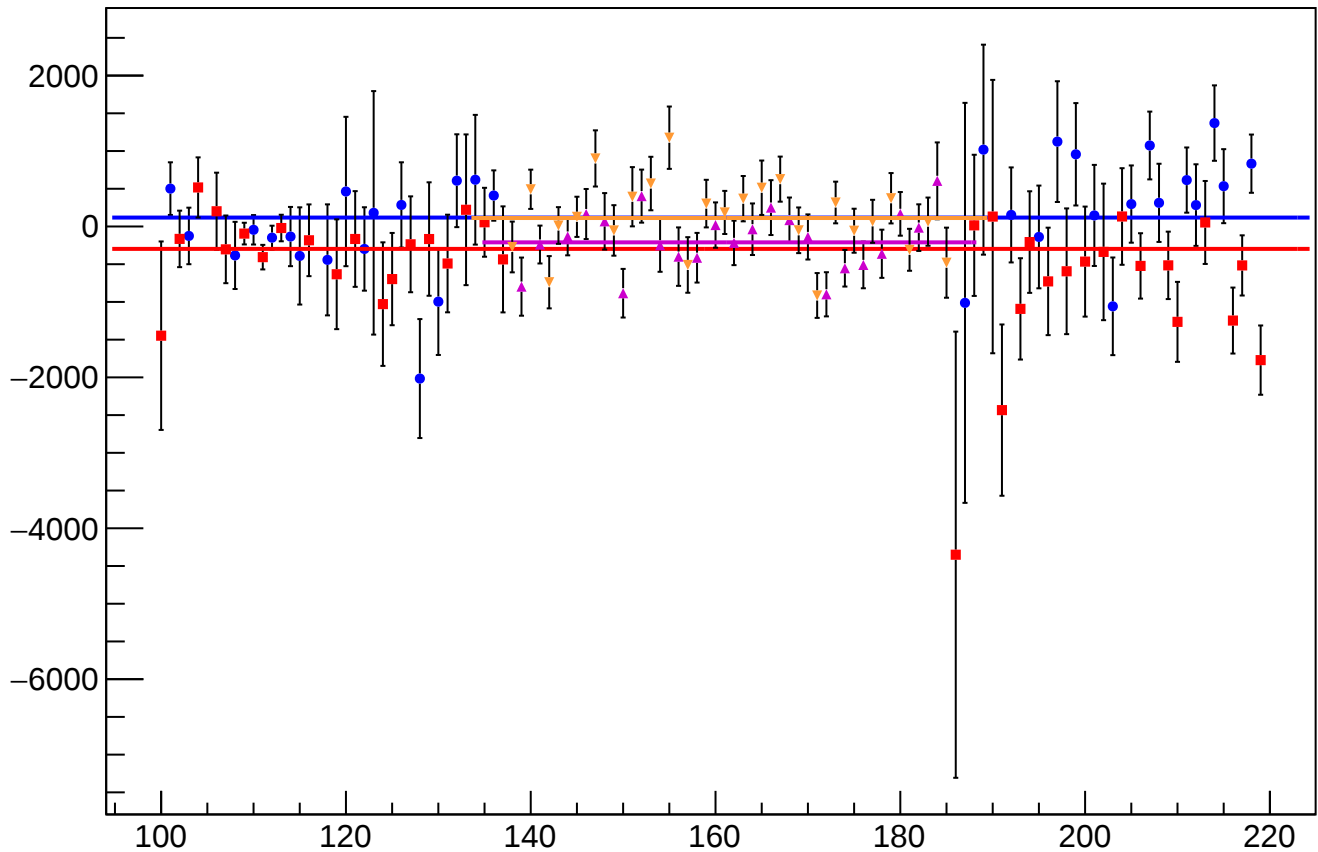
Right: 442.704 $\pm$ 0.060 χ^2 /NDF: 21168984.7/69

In: 356.277 $\pm$ 0.046 χ^2 /NDF: 11919332.6/55

Out: 346.979 $\pm$ 0.044 χ^2 /NDF: 14446104.1/61

All: 351.426 $\pm$ 0.032 χ^2 /NDF: 26386414.0/13

asym_sam8_mean vs Slug, Sign Corrected



Right In: 118.121 $\pm$ 76.381 χ^2/NDF : 44.1/32

Left Out: 112.242 $\pm$ 62.643 χ^2/NDF : 49.1/24

Right Out: -296.975 $\pm$ 67.731 χ^2/NDF : 41.2/36

Left In: -210.453 $\pm$ 65.510 χ^2/NDF : 29.2/22

Left: -41.890 $\pm$ 45.275 χ^2/NDF : 91.0/47

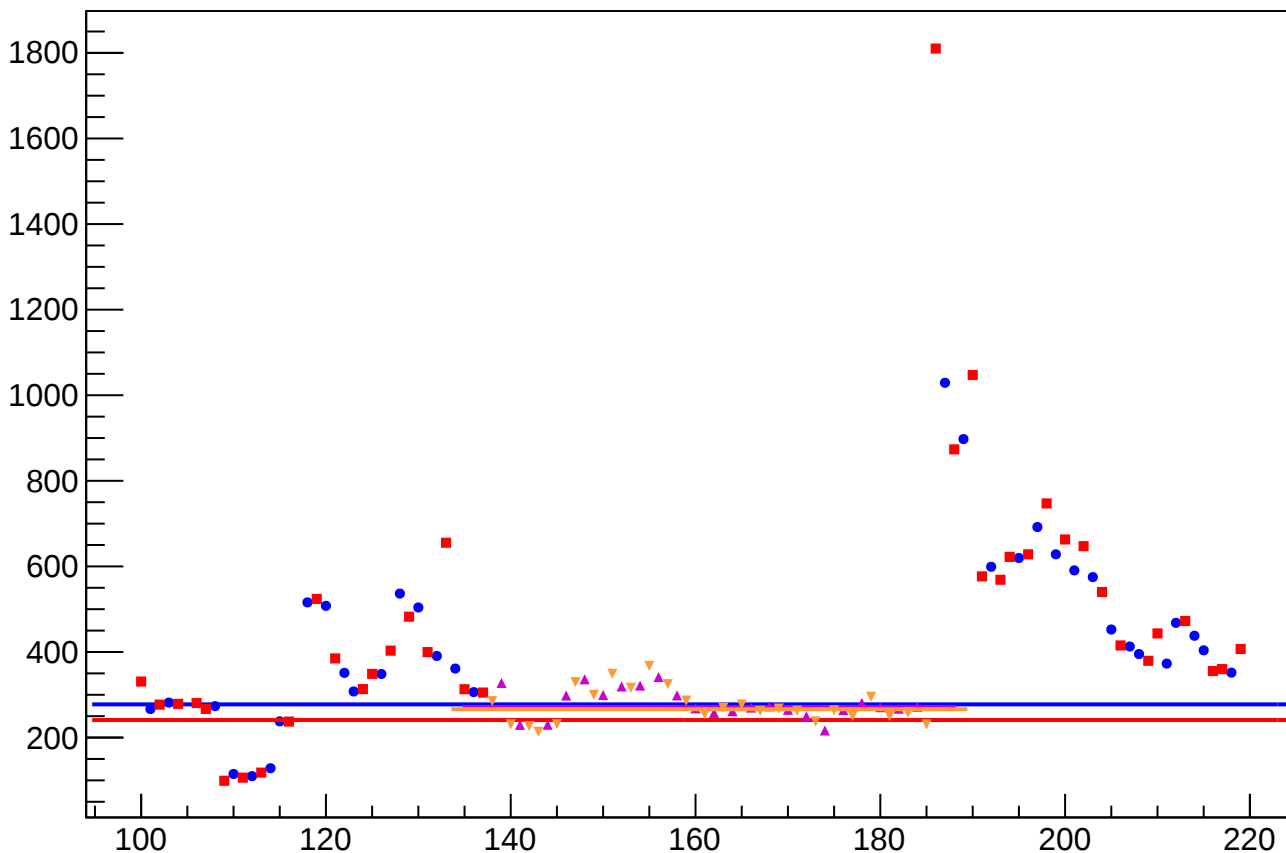
Right: -114.255 $\pm$ 50.677 χ^2/NDF : 101.8/69

In: -71.193 $\pm$ 49.726 χ^2/NDF : 84.0/55

Out: -76.422 $\pm$ 45.989 χ^2/NDF : 110.0/61

All: -74.012 $\pm$ 33.763 χ^2/NDF : 194.0/117

asym_sam8_rms vs Slug, Sign Corrected



Right In: 277.574+/-0.054 χ^2/NDF : 9625210.1/32

Left Out: 266.207+/-0.044 χ^2/NDF : 649629.9/24

Right Out: 241.033+/-0.048 χ^2/NDF : 13455257.8/36

Left In: 271.415+/-0.046 χ^2/NDF : 521877.7/22

Left: 268.695+/-0.032 χ^2/NDF : 1178109.8/47

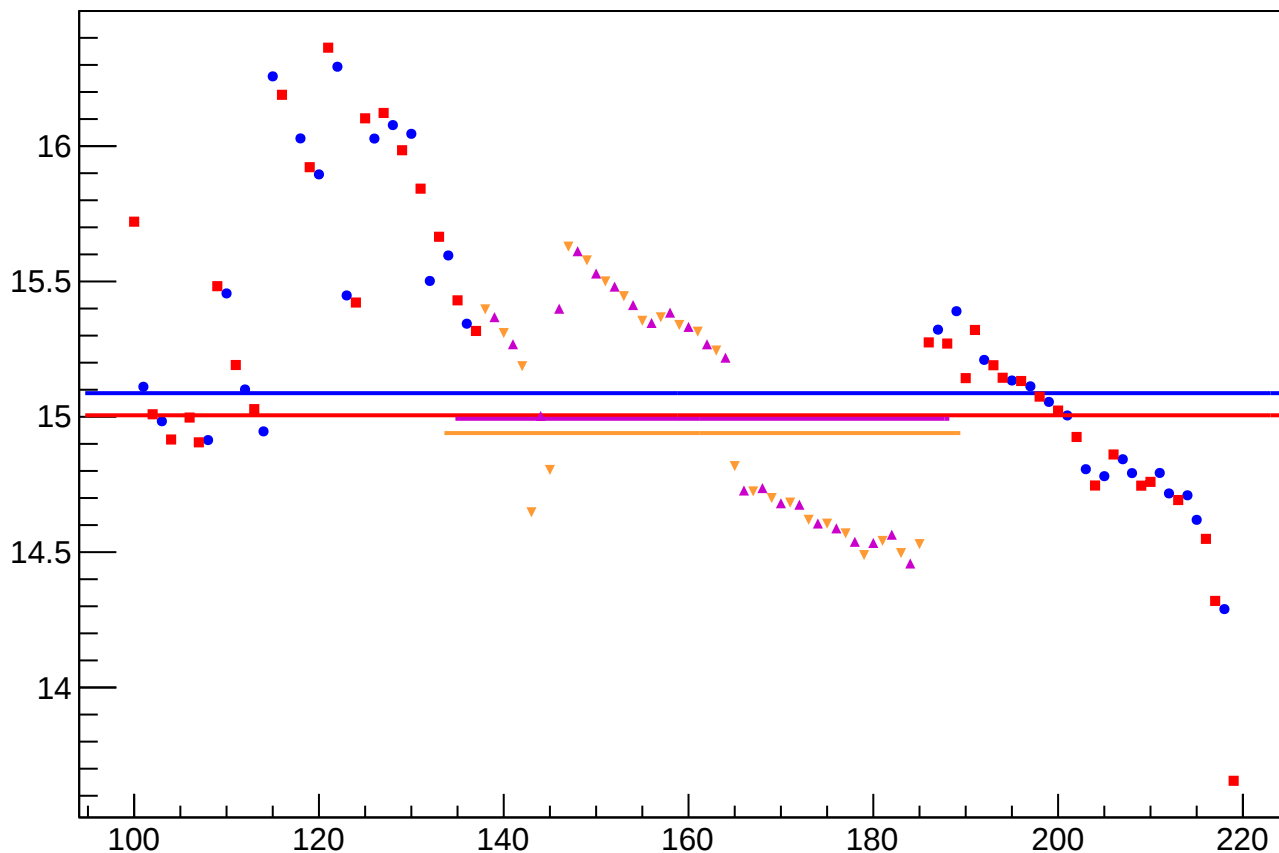
Right: 257.118+/-0.036 χ^2/NDF : 23336713.3/69

In: 274.025+/-0.035 χ^2/NDF : 10154579.9/55

Out: 254.601+/-0.033 χ^2/NDF : 14253800.2/61

All: 263.556+/-0.024 χ^2/NDF : 24572867.5/11

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.087 $\pm$ 0.000

χ^2 /NDF: 25653445118.3/32

Left Out: 14.940 $\pm$ 0.000

χ^2 /NDF: 24199653913.9/24

Right Out: 15.006 $\pm$ 0.000

χ^2 /NDF: 39961745110.6/36

Left In: 14.993 $\pm$ 0.000

χ^2 /NDF: 22023159634.7/22

Left: 14.965 $\pm$ 0.000

χ^2 /NDF: 46444749587.5/47

Right: 15.047 $\pm$ 0.000

χ^2 /NDF: 65960160105.3/69

In: 15.031 $\pm$ 0.000

χ^2 /NDF: 48235603615.8/55

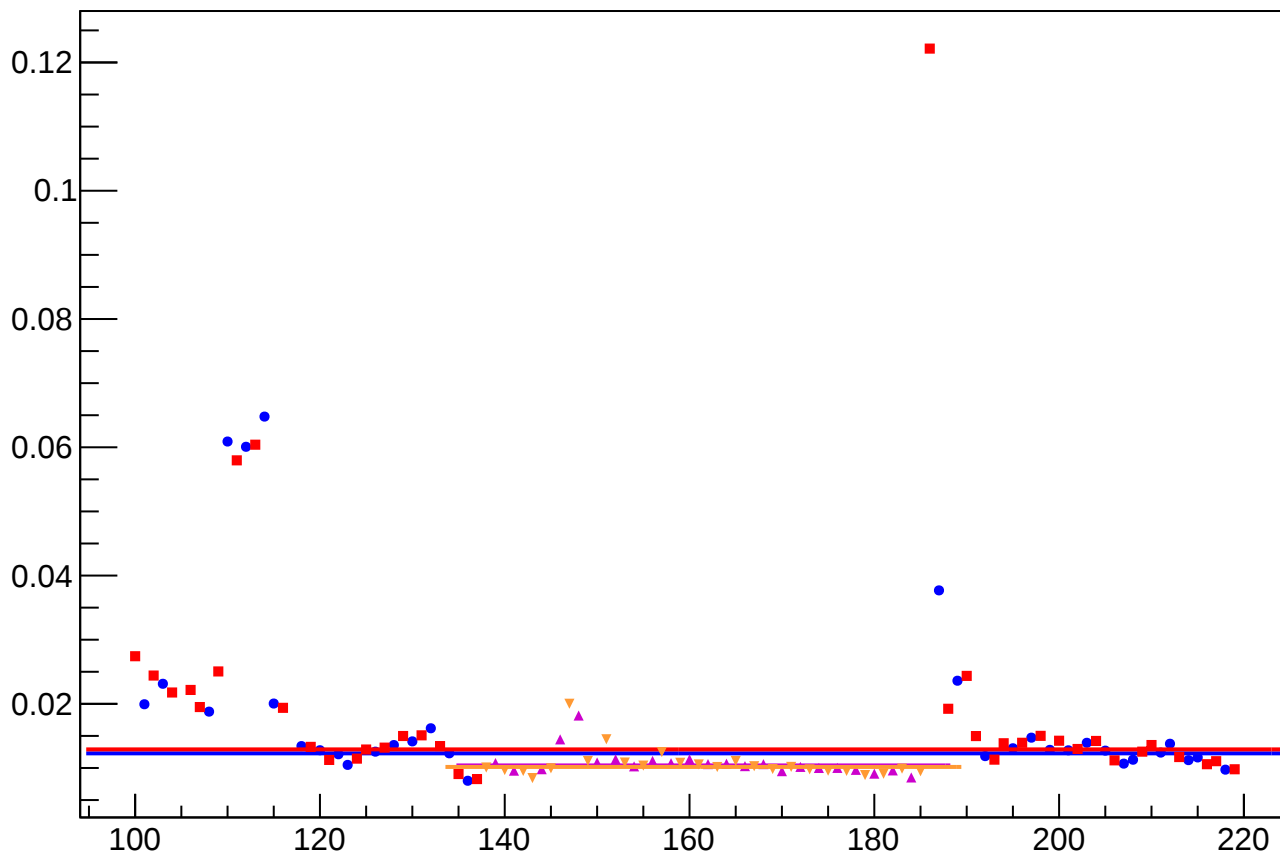
Out: 14.965 $\pm$ 0.000

χ^2 /NDF: 64432878614.7/61

All: 14.997 $\pm$ 0.000

χ^2 /NDF: 113255917208.

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 2725750.7/32

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 717351.4/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3451611.0/36

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

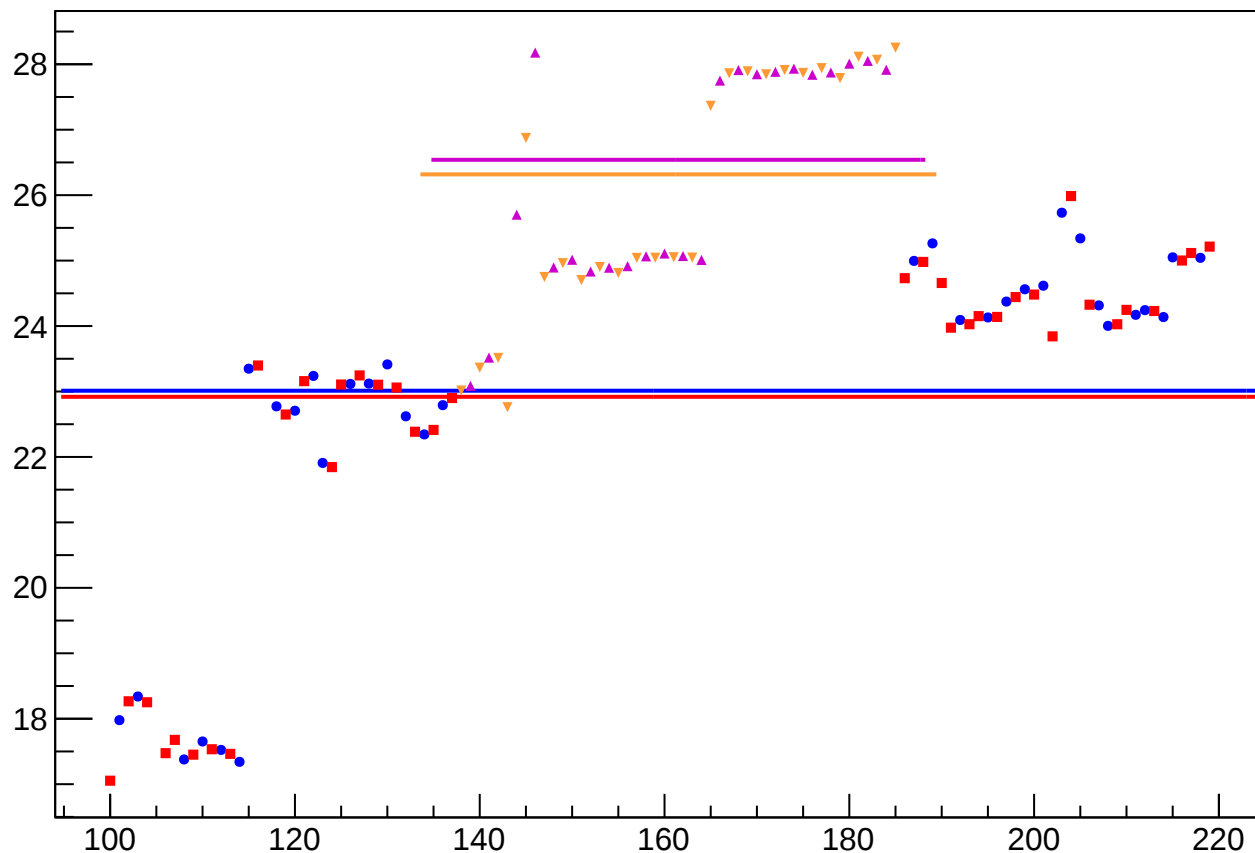
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 6216678.9/69

In: 0.011 $\pm$ 0.000 χ^2 /NDF: 3712199.0/55

Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 5110012.0/61

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 8822351.1/117

yield_sam2_mean vs Slug, Sign Corrected



Right In: 23.012+/-0.000

χ^2/NDF : 1500072288.0/32

Left: 26.424+/-0.000

χ^2/NDF : 8058273722.3/47

Left Out: 26.318+/-0.000

χ^2/NDF : 4715403741.0/24

Right: 22.967+/-0.000

χ^2/NDF : 3302422346.0/69

Right Out: 22.919+/-0.000

χ^2/NDF : 1800470020.3/36

In: 25.631+/-0.000

χ^2/NDF : 8966767795.8/55

Left In: 26.540+/-0.000

χ^2/NDF : 3309392772.6/22

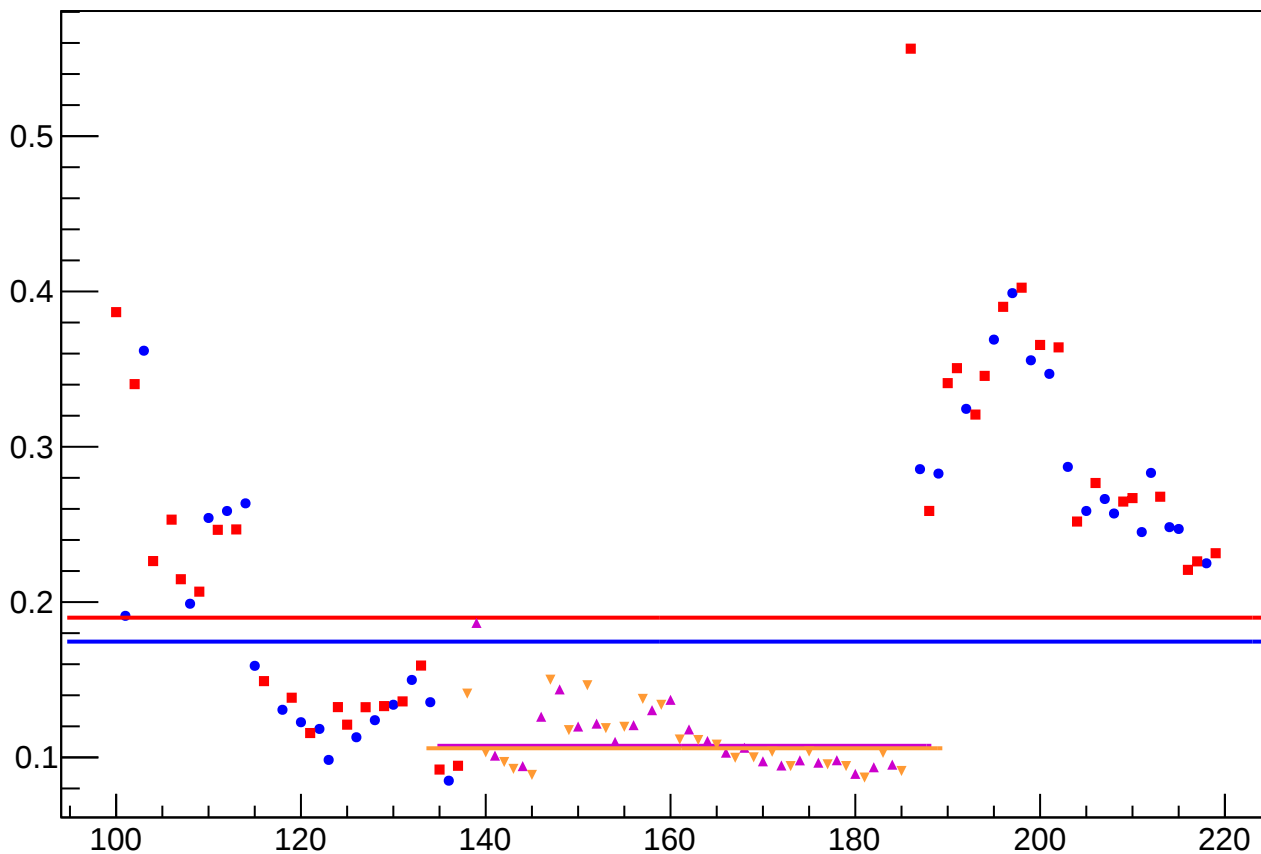
Out: 25.535+/-0.000

χ^2/NDF : 10266657608.6/61

All: 25.582+/-0.000

χ^2/NDF : 19241604041.2

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.175+/-0.000 χ^2/NDF : 6507546.3/32

Left Out: 0.106+/-0.000 χ^2/NDF : 732883.8/24

Right Out: 0.190+/-0.000 χ^2/NDF : 6167642.1/36

Left In: 0.107+/-0.000 χ^2/NDF : 771132.0/22

Left: 0.107+/-0.000 χ^2/NDF : 1507414.2/47

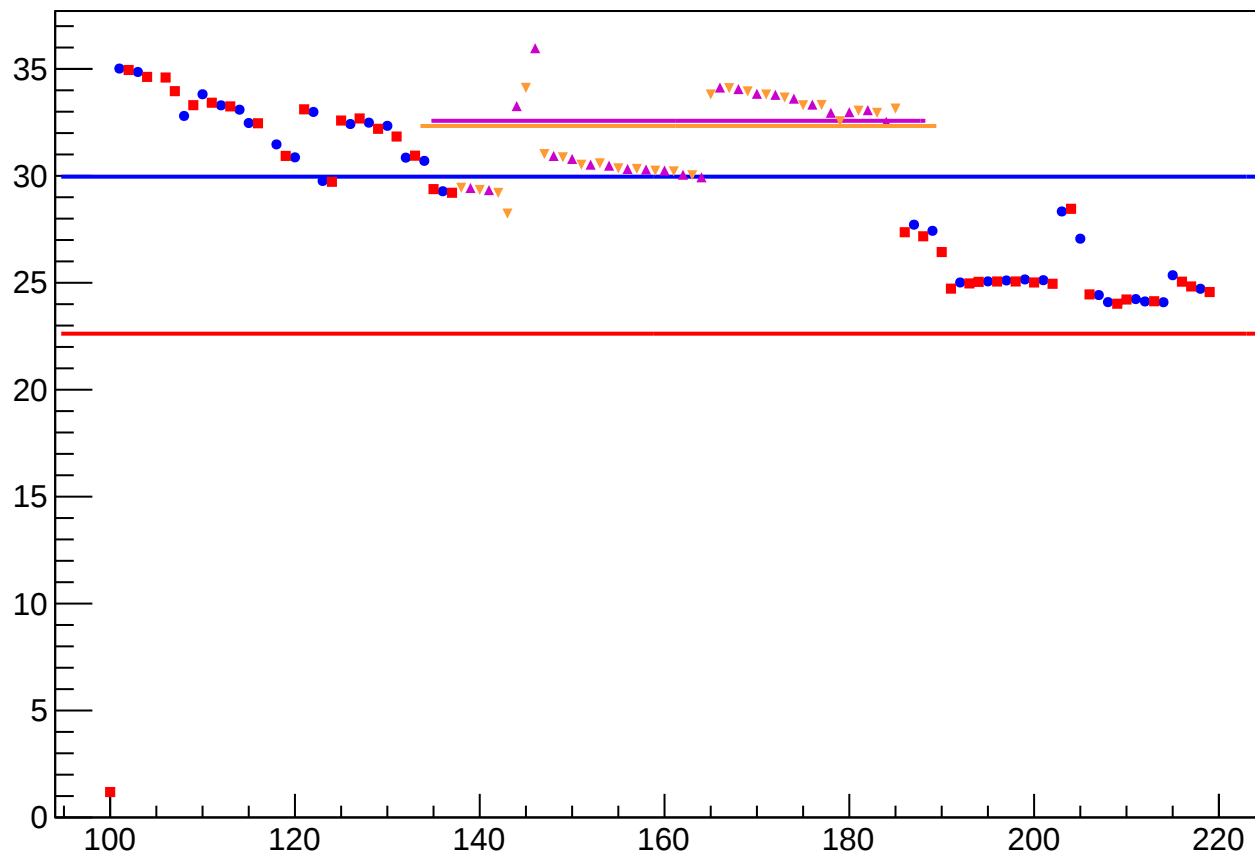
Right: 0.182+/-0.000 χ^2/NDF : 12778720.5/69

In: 0.125+/-0.000 χ^2/NDF : 10284357.8/55

Out: 0.125+/-0.000 χ^2/NDF : 11492952.8/61

All: 0.125+/-0.000 χ^2/NDF : 21777726.4/117

yield_sam3_mean vs Slug, Sign Corrected



Right In: 29.962 $\pm$ 0.000 χ^2 /NDF: 11358266607.6/32

Left Out: 32.331 $\pm$ 0.000 χ^2 /NDF: 12850475096.2/24

Right Out: 22.621 $\pm$ 0.000 χ^2 /NDF: 232676444189.4/36

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

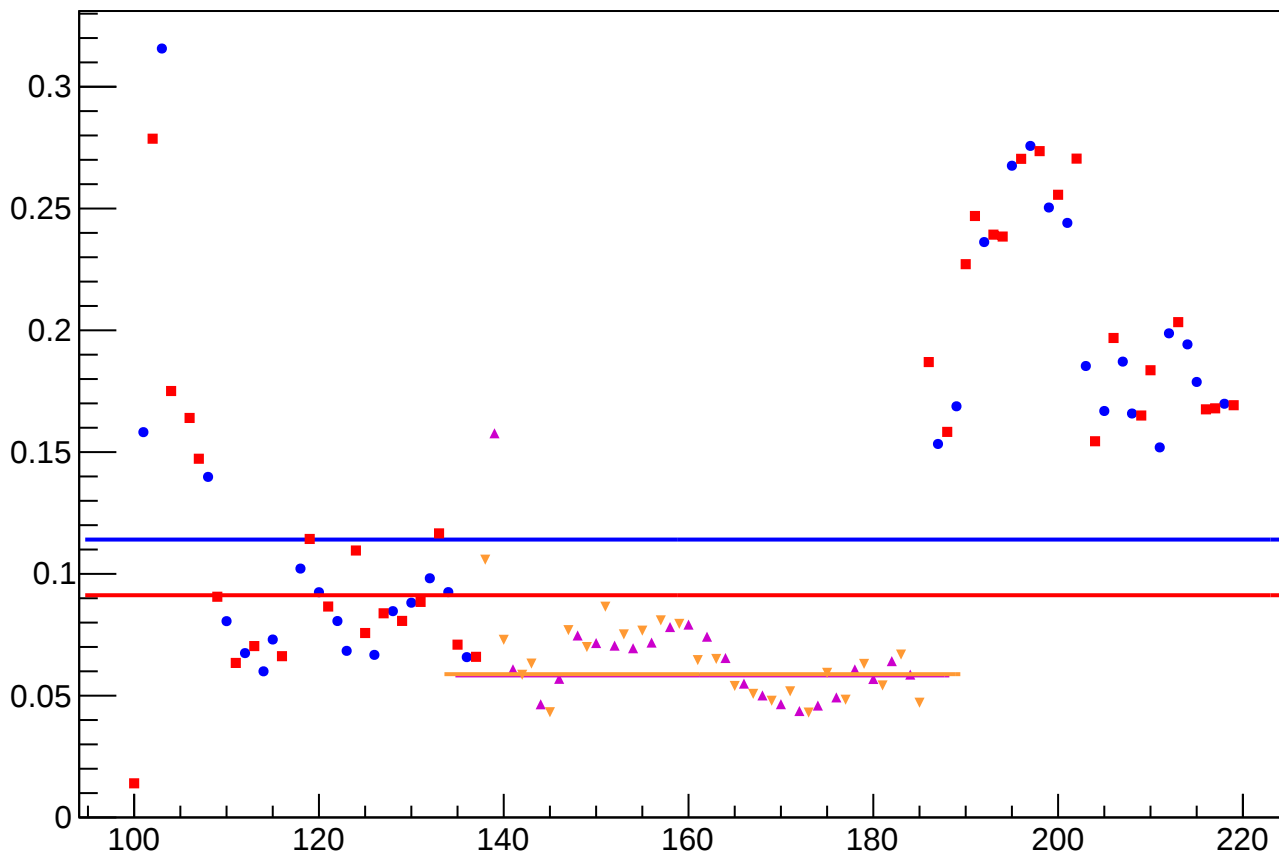
Right: 25.733 $\pm$ 0.000 χ^2 /NDF: 275451503395.9/69

In: 32.038 $\pm$ 0.000 χ^2 /NDF: 28645234351.6/55

Out: 29.891 $\pm$ 0.000 χ^2 /NDF: 342590571405.6/61

All: 30.909 $\pm$ 0.000 χ^2 /NDF: 383194804172.0

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.114 $\pm$ 0.000 χ^2 /NDF: 6846723.7/32

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF:1402605.2/24

Right Out: 0.091 $\pm$ 0.000 χ^2 /NDF: 12829404.6/36

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

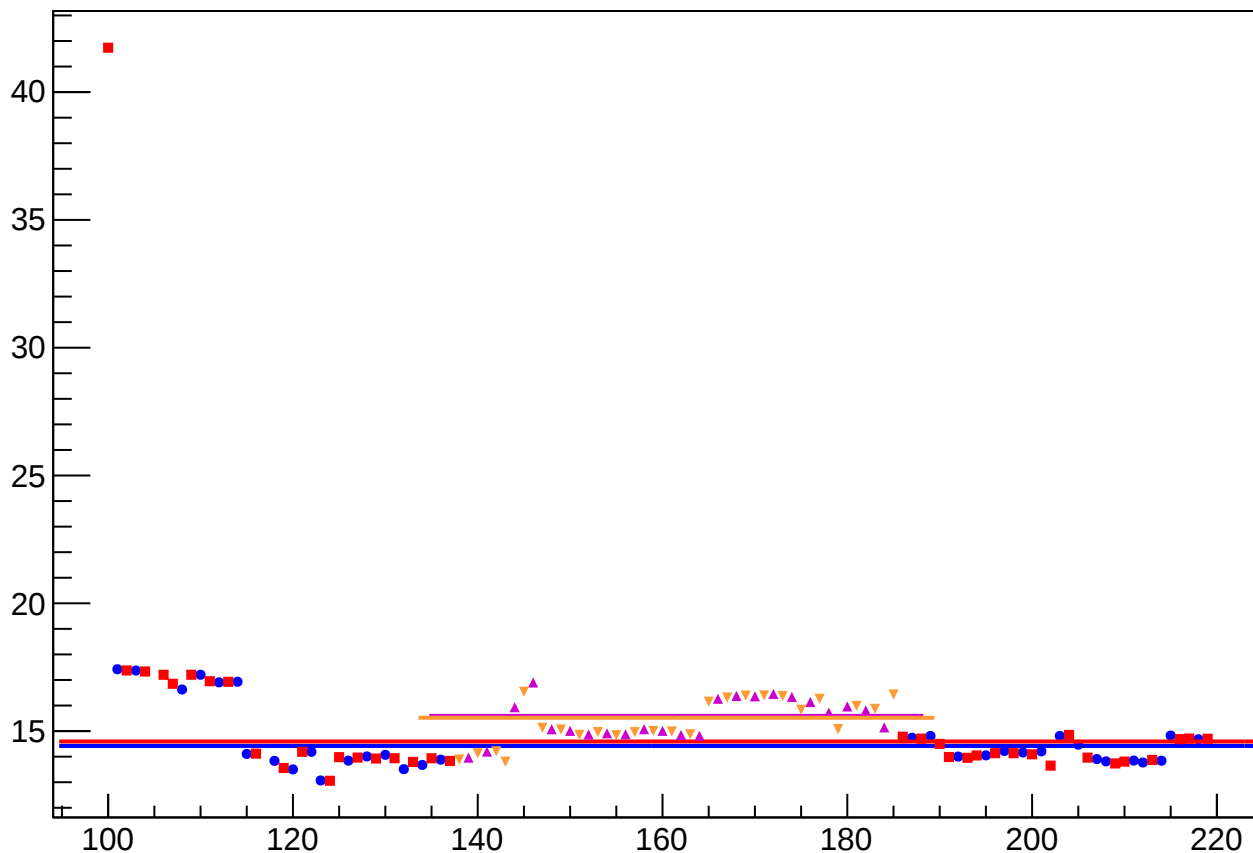
Right: 0.101 $\pm$ 0.000 χ^2 /NDF: 20284988.2/69

In: 0.070 $\pm$ 0.000 χ^2 /NDF:13377057.3/55

Out: 0.067 $\pm$ 0.000 χ^2 /NDF:16394695.9/61

All: 0.068 $\pm$ 0.000 χ^2 /NDF: 29812053.6/117

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.419+/-0.000

χ^2/NDF : 1572933003.2/32

Left Out: 15.521+/-0.000

χ^2/NDF : 2591377740.5/24

Right Out: 14.593+/-0.000

χ^2/NDF : 2039608223.4/36

Left In: 15.595+/-0.000

χ^2/NDF : 1908733580.5/22

Left: 15.557+/-0.000

χ^2/NDF : 4510008259.4/47

Right: 14.504+/-0.000

χ^2/NDF : 3630964530.8/69

In: 15.284+/-0.000

χ^2/NDF : 4742344462.7/55

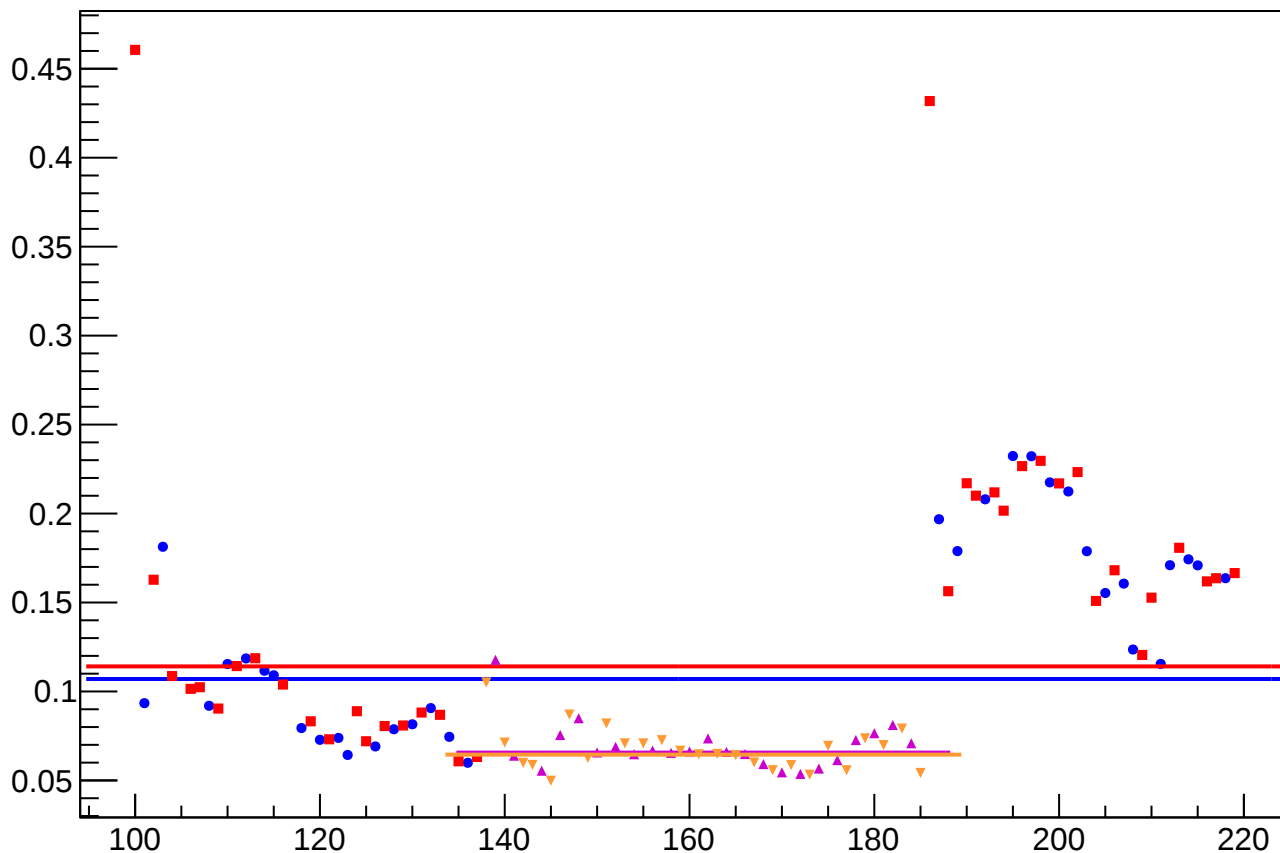
Out: 15.298+/-0.000

χ^2/NDF : 5406351073.7/61

All: 15.291+/-0.000

χ^2/NDF : 10149205122.6

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.107 $\pm$ 0.000 χ^2 /NDF: 5743850.2/32

Left Out: 0.064 $\pm$ 0.000 χ^2 /NDF: 761552.3/24

Right Out: 0.114 $\pm$ 0.000 χ^2 /NDF: 5780351.9/36

Left In: 0.066 $\pm$ 0.000 χ^2 /NDF: 714703.1/22

Left: 0.065 $\pm$ 0.000 χ^2 /NDF: 1481007.6/47

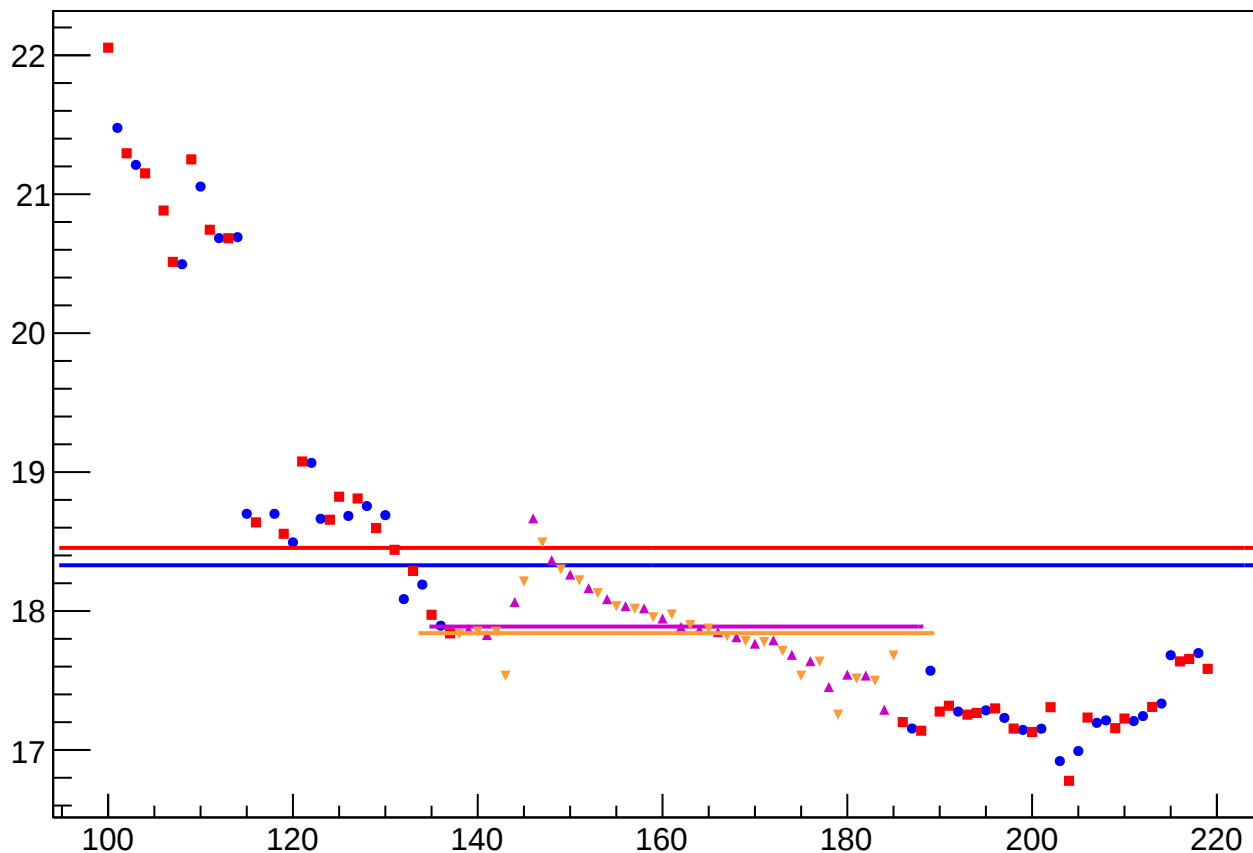
Right: 0.110 $\pm$ 0.000 χ^2 /NDF: 11584934.4/69

In: 0.077 $\pm$ 0.000 χ^2 /NDF: 9577355.3/55

Out: 0.076 $\pm$ 0.000 χ^2 /NDF: 10975092.4/61

All: 0.077 $\pm$ 0.000 χ^2 /NDF: 20552636.3/117

yield_sam5_mean vs Slug, Sign Corrected



Right In: 18.329 $\pm$ 0.000

χ^2 /NDF: 32682585637.8/32

Left Out: 17.841 $\pm$ 0.000

χ^2 /NDF: 1283287989.7/24

Right Out: 18.454 $\pm$ 0.000

χ^2 /NDF: 35021506554.5/36

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: 18.392 $\pm$ 0.000

χ^2 /NDF: 67811391544.5/69

In: 18.083 $\pm$ 0.000

χ^2 /NDF: 35373524350.0/55

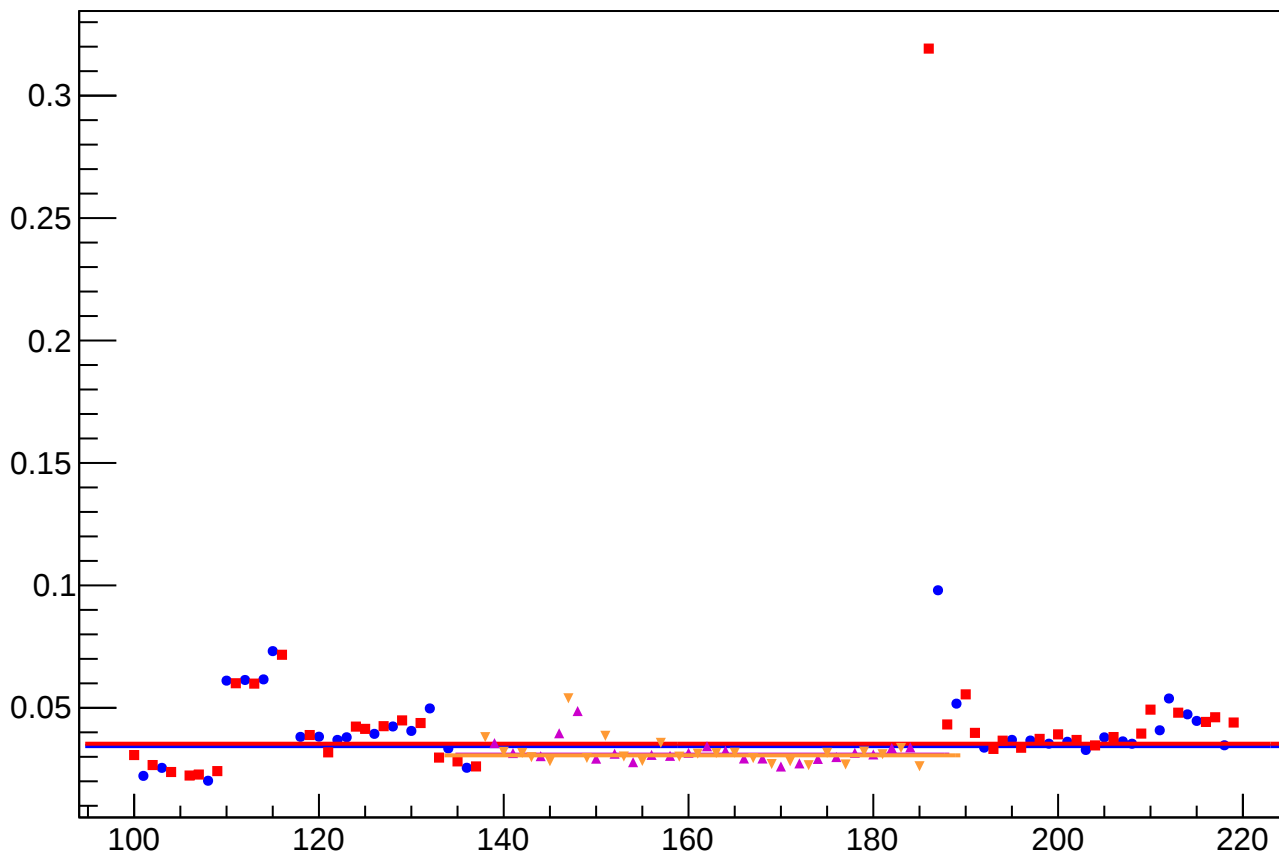
Out: 18.101 $\pm$ 0.000

χ^2 /NDF: 39278838797.5/61

All: 18.092 $\pm$ 0.000

χ^2 /NDF: 74657810641.6

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.000 χ^2 /NDF: 2185172.6/32

Left Out: 0.031 $\pm$ 0.000 χ^2 /NDF:590475.6/24

Right Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 2647174.9/36

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

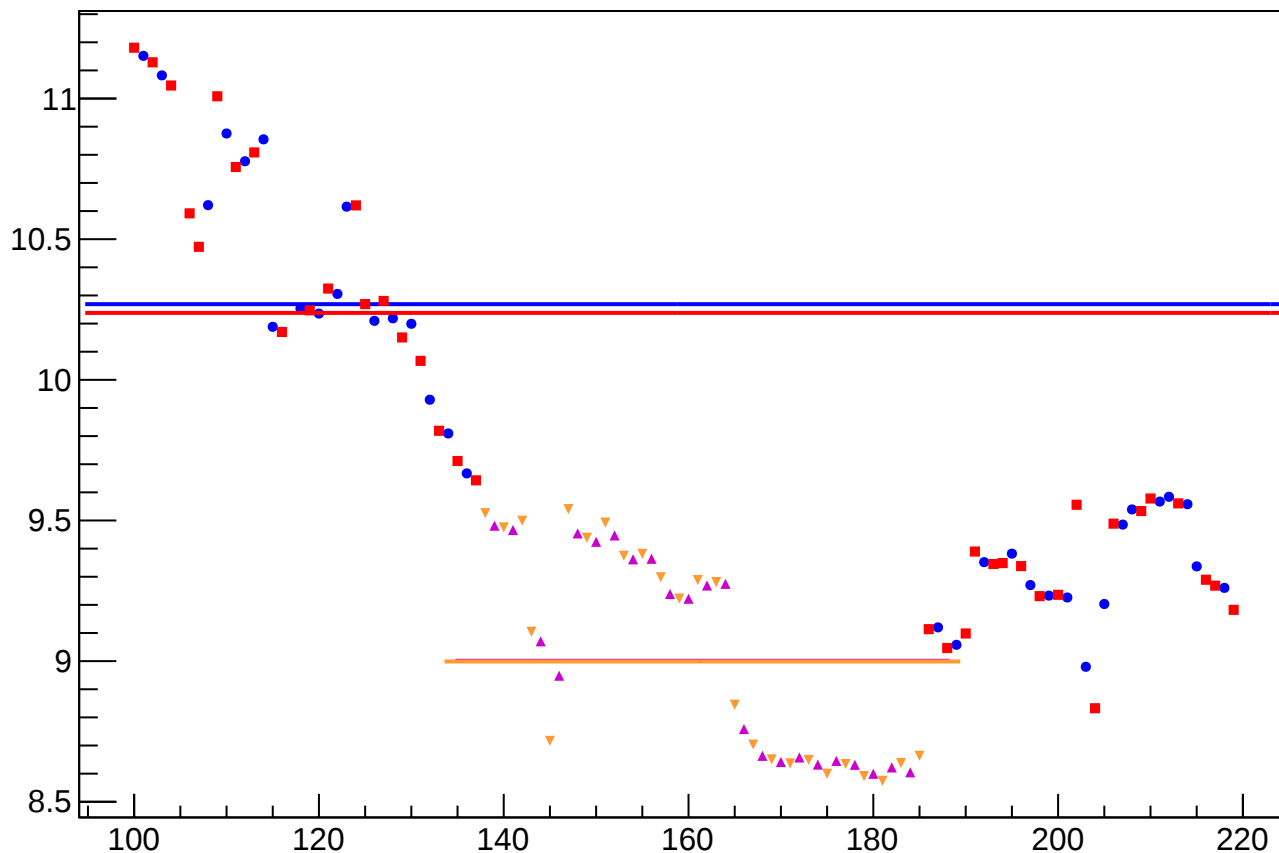
Right: 0.035 $\pm$ 0.000 χ^2 /NDF: 4845769.9/69

In: 0.032 $\pm$ 0.000 χ^2 /NDF:2821990.1/55

Out: 0.033 $\pm$ 0.000 χ^2 /NDF:3593519.8/61

All: 0.033 $\pm$ 0.000 χ^2 /NDF: 6416691.3/117

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.269+/-0.000 χ^2/NDF : 17718761544.6/32

Left Out: 8.999+/-0.000 χ^2/NDF : 6392583736.5/24

Right Out: 10.238+/-0.000 χ^2/NDF : 16953645843.2/36

Left In: 9.001+/-0.000 χ^2/NDF : 5314536205.4/22

Left: 9.000+/-0.000 χ^2/NDF : 11707260677.5/47

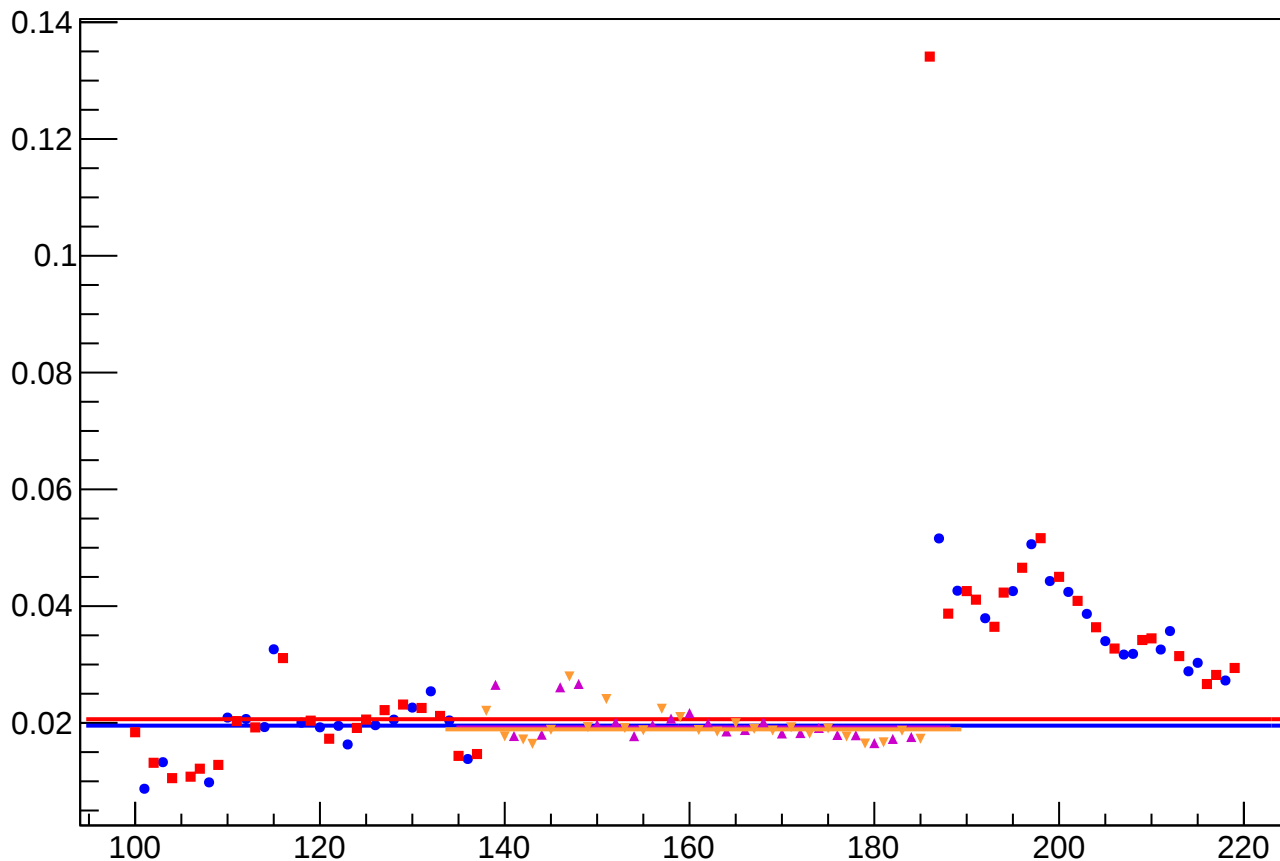
Right: 10.254+/-0.000 χ^2/NDF : 34689175779.1/69

In: 9.571+/-0.000 χ^2/NDF : 53975274274.9/55

Out: 9.523+/-0.000 χ^2/NDF : 53897522140.6/61

All: 9.547+/-0.000 χ^2/NDF : 107964058405.7

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 7653670.9/32

Left Out: 0.019+/-0.000 χ^2/NDF : 428169.5/24

Right Out: 0.021+/-0.000 χ^2/NDF : 7544239.5/36

Left In: 0.019+/-0.000 χ^2/NDF : 481824.0/22

Left: 0.019+/-0.000 χ^2/NDF : 914799.6/47

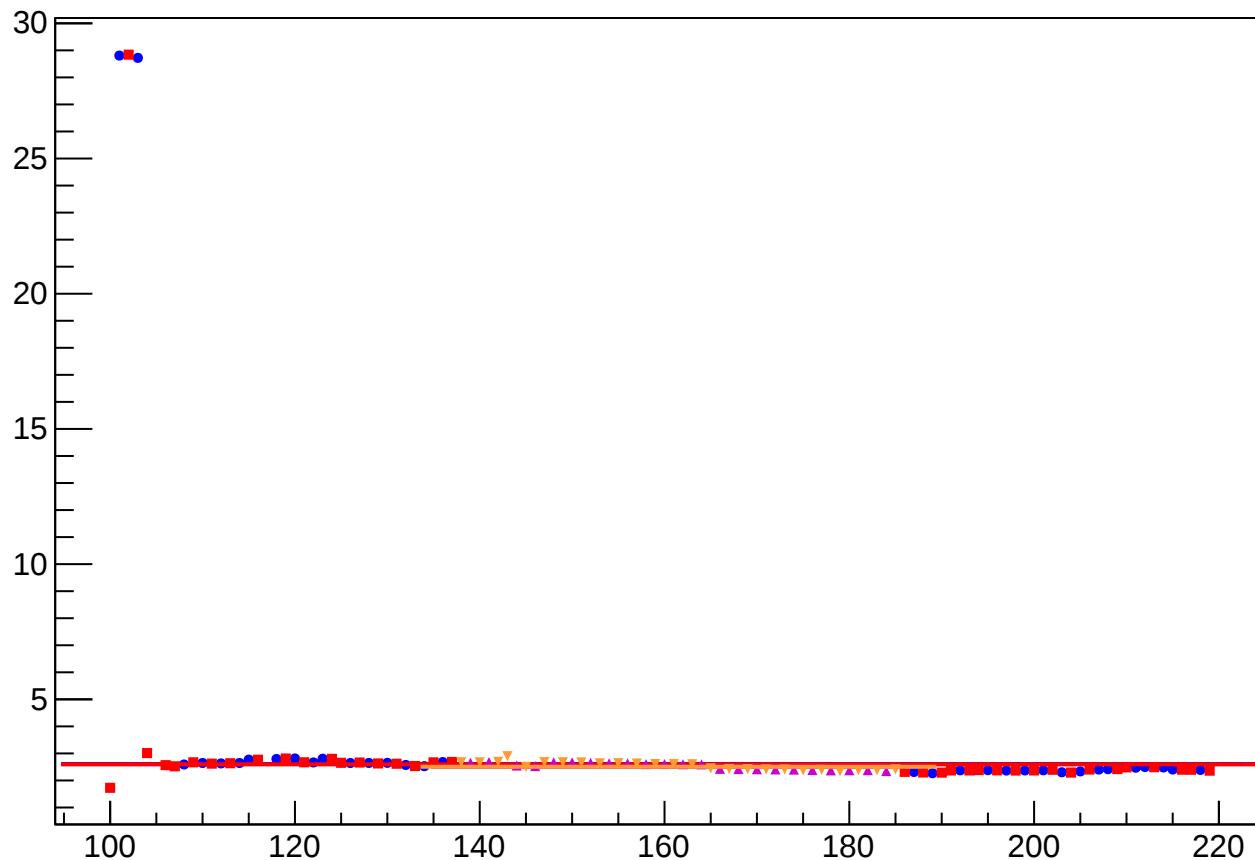
Right: 0.020+/-0.000 χ^2/NDF : 15240145.5/69

In: 0.019+/-0.000 χ^2/NDF : 8139158.9/55

Out: 0.020+/-0.000 χ^2/NDF : 8092677.9/61

All: 0.020+/-0.000 χ^2/NDF : 16237636.6/117

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.606 $\pm$ 0.000 χ^2 /NDF: 185375250406.2/32

Left Out: 2.507 $\pm$ 0.000 χ^2 /NDF: 64277969186.7/24

Right Out: 2.598 $\pm$ 0.000 χ^2 /NDF: 9675755515.0/36

Left In: 2.505 $\pm$ 0.000 χ^2 /NDF: 42893630742.5/22

Left: 2.506 $\pm$ 0.000 χ^2 /NDF: 107174595641.7/47

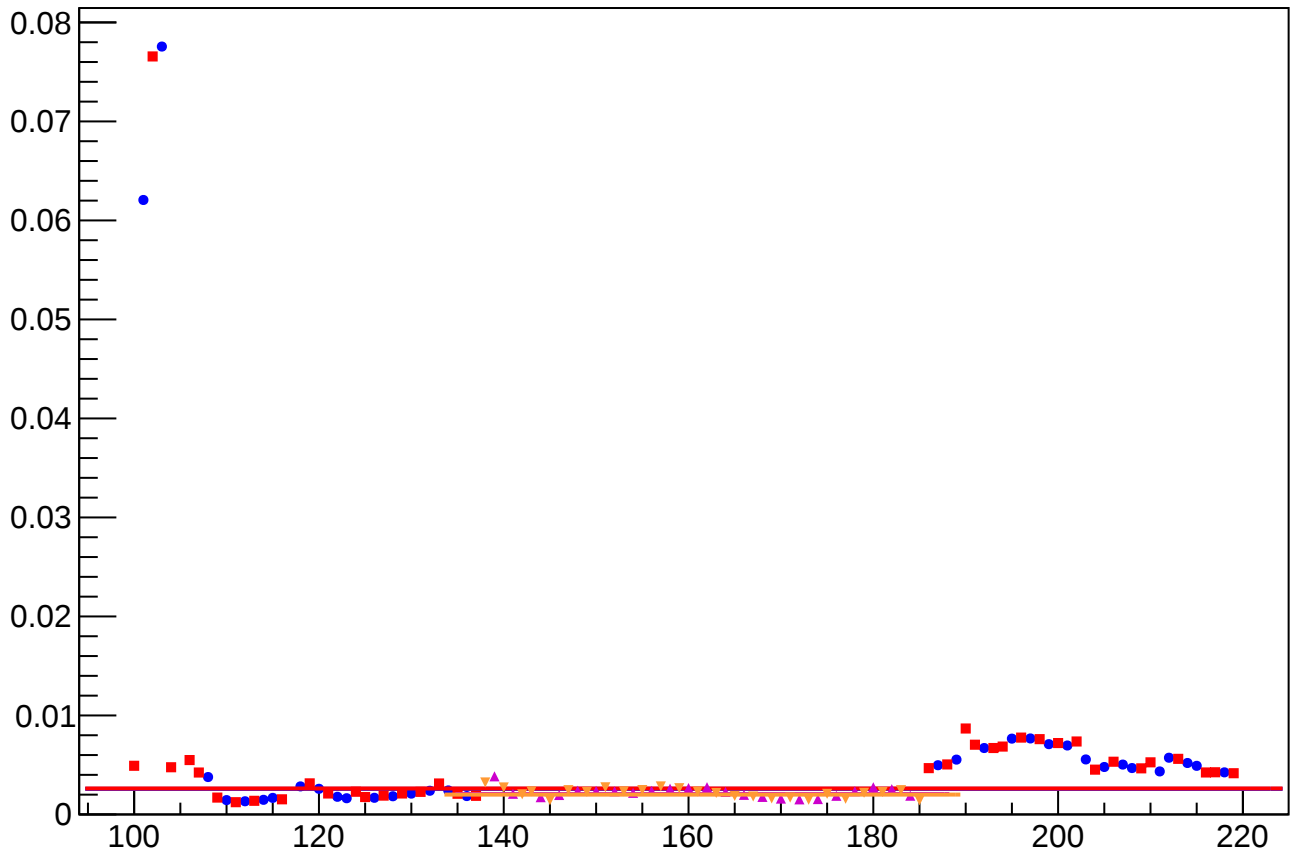
Right: 2.602 $\pm$ 0.000 χ^2 /NDF: 282193747189.7/69

In: 2.540 $\pm$ 0.000 χ^2 /NDF: 239686489383.1/55

Out: 2.537 $\pm$ 0.000 χ^2 /NDF: 171071229853.1/61

All: 2.538 $\pm$ 0.000 χ^2 /NDF: 410779107296.7

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 10803148.8/32

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:1469103.5/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 10987157.4/36

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

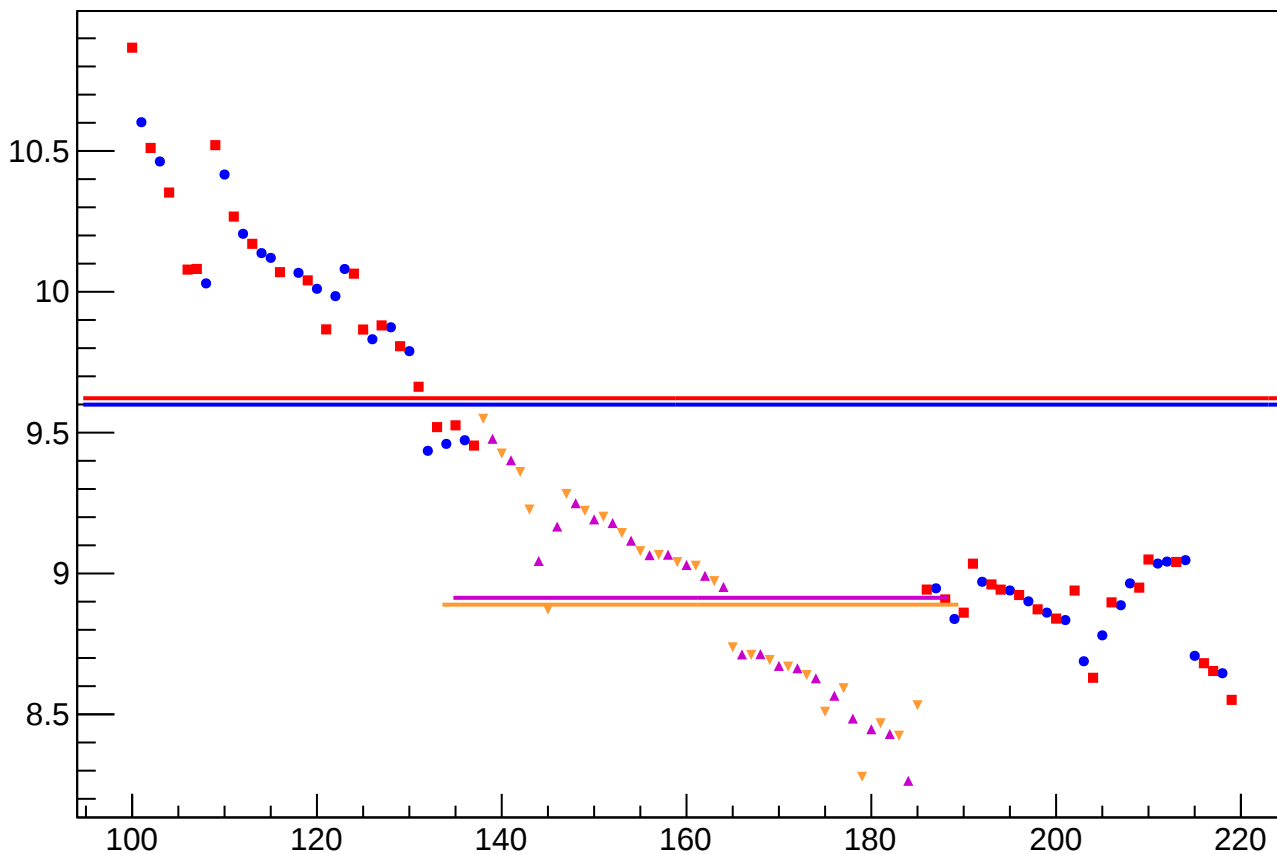
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 21792725.8/69

In: 0.002 $\pm$ 0.000 χ^2 /NDF:12733856.1/55

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:13379192.2/61

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 26117125.8/117

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.599+/-0.000

χ^2/NDF : 100216850015.4/32

Left: 8.901+/-0.000

χ^2/NDF : 63312247922.6/47

Left Out: 8.889+/-0.000

χ^2/NDF : 34704694045.9/24

Right: 9.611+/-0.000

χ^2/NDF : 230646095948.7/69

Right Out: 9.622+/-0.000

χ^2/NDF : 13035525719.6/36

In: 9.218+/-0.000

χ^2/NDF : 201298293916.8/55

Out: 9.200+/-0.000

χ^2/NDF : 256832457452.8/61

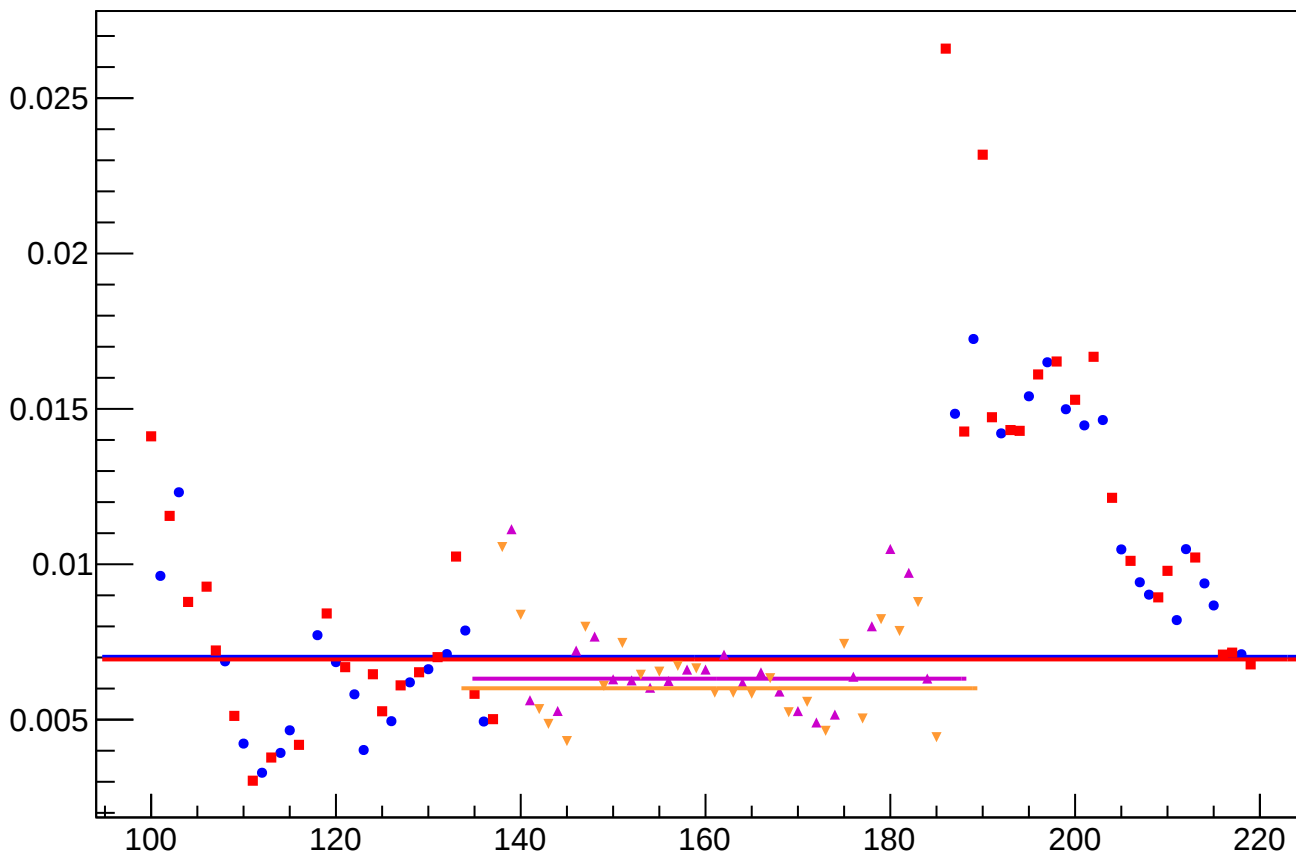
Left In: 8.914+/-0.000

χ^2/NDF : 28497227562.7/22

All: 9.209+/-0.000

χ^2/NDF : 458228986980.8

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 6093607.1/32

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1312525.9/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 7553864.3/36

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

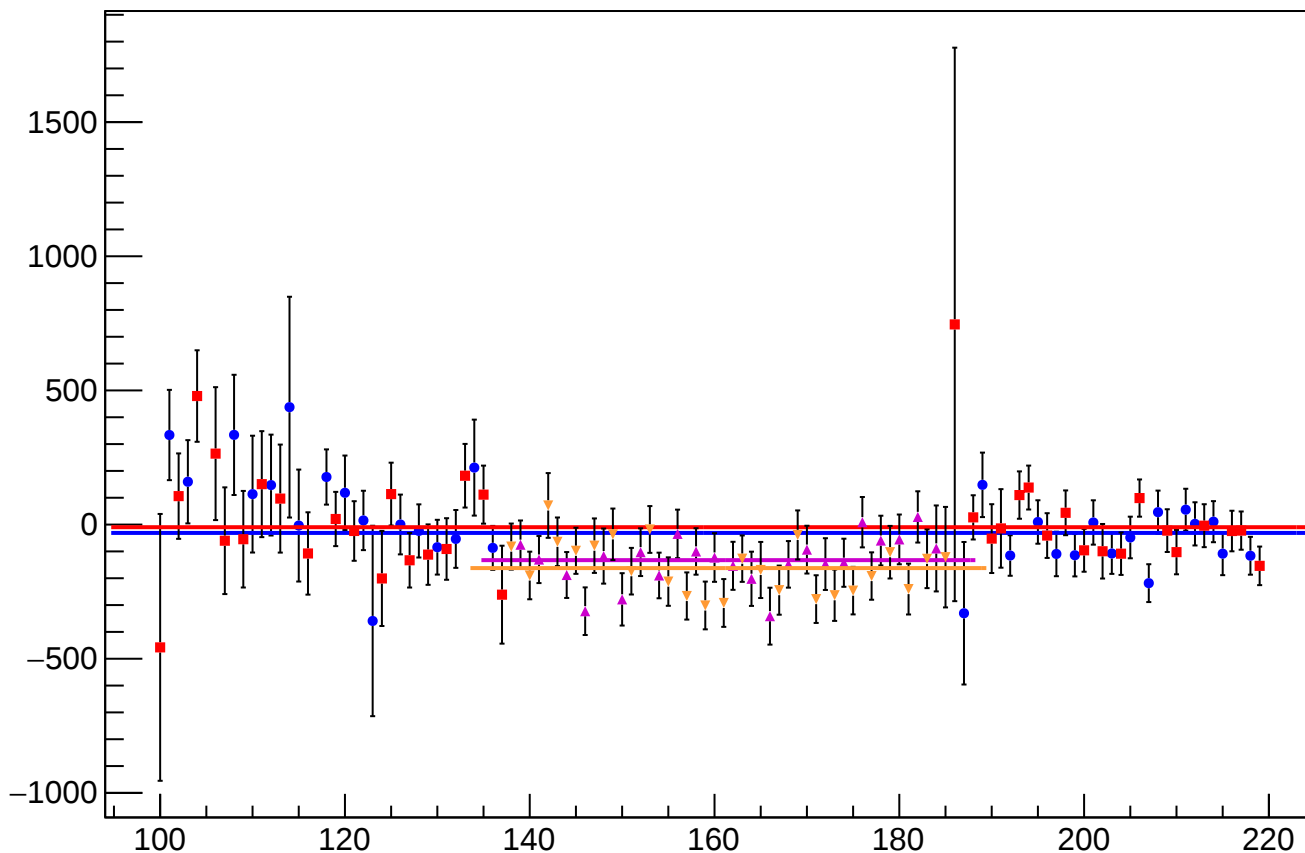
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 13649490.3/69

In: 0.007 $\pm$ 0.000 χ^2 /NDF:7333317.8/55

Out: 0.006 $\pm$ 0.000 χ^2 /NDF:9160950.6/61

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 16528187.7/117

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: -31.081 ± 17.248 $\chi^2/\text{NDF}: 40.9/32$

Left Out: -162.161 ± 18.745 $\chi^2/\text{NDF}: 25.7/24$

Right Out: -9.790 ± 17.066 $\chi^2/\text{NDF}: 41.0/36$

Left In: -132.557 ± 19.403 $\chi^2/\text{NDF}: 20.7/22$

Left: -147.870 ± 13.481 $\chi^2/\text{NDF}: 47.6/47$

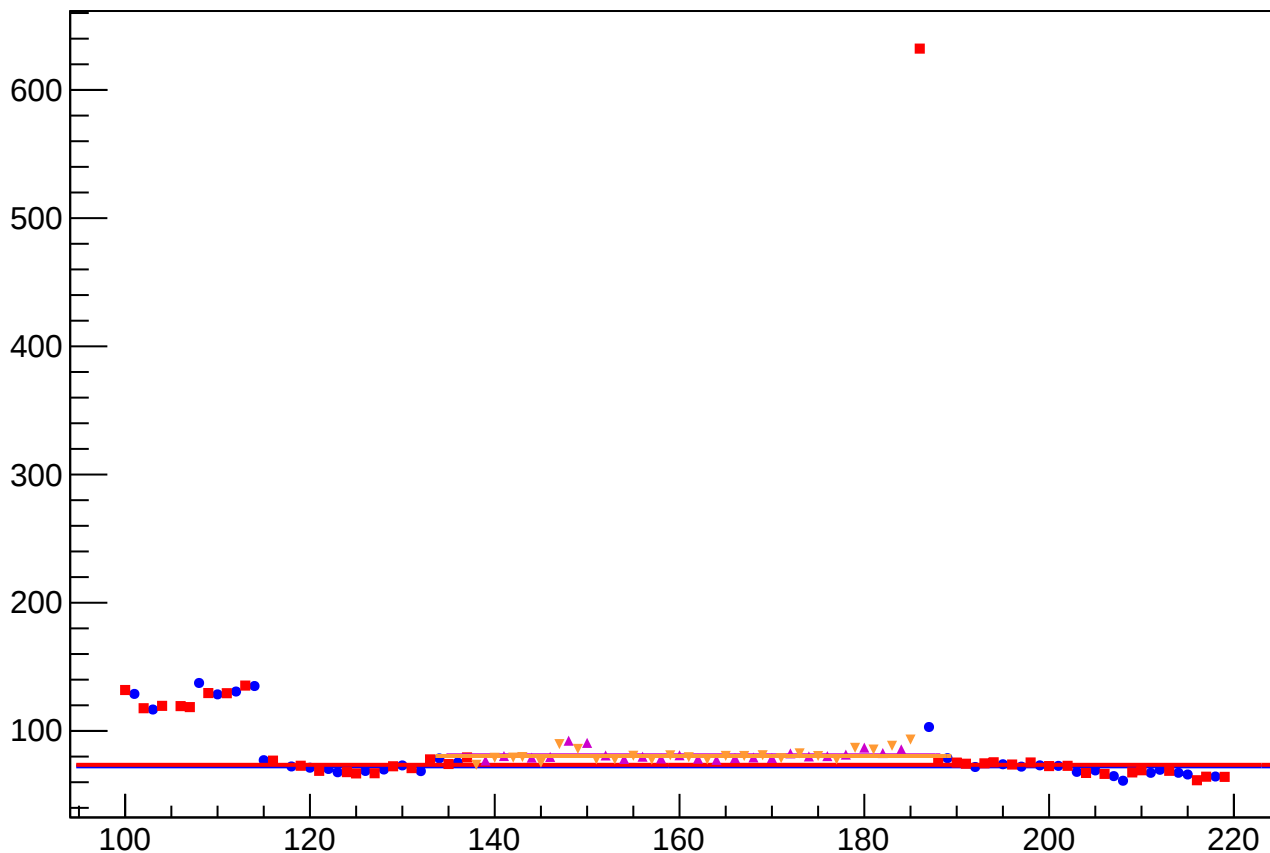
Right: -20.323 ± 12.131 $\chi^2/\text{NDF}: 82.7/69$

In: -75.871 ± 12.891 $\chi^2/\text{NDF}: 76.9/55$

Out: -78.850 ± 12.619 $\chi^2/\text{NDF}: 102.8/61$

All: -77.392 ± 9.018 $\chi^2/\text{NDF}: 179.8/117$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 72.378+/-0.012 χ^2/NDF : 1105256.0/32

Left Out: 80.459+/-0.013 χ^2/NDF : 89942.2/24

Right Out: 73.583+/-0.012 χ^2/NDF : 1838014.3/36

Left In: 81.014+/-0.014 χ^2/NDF : 72250.2/22

Left: 80.727+/-0.010 χ^2/NDF : 163039.2/47

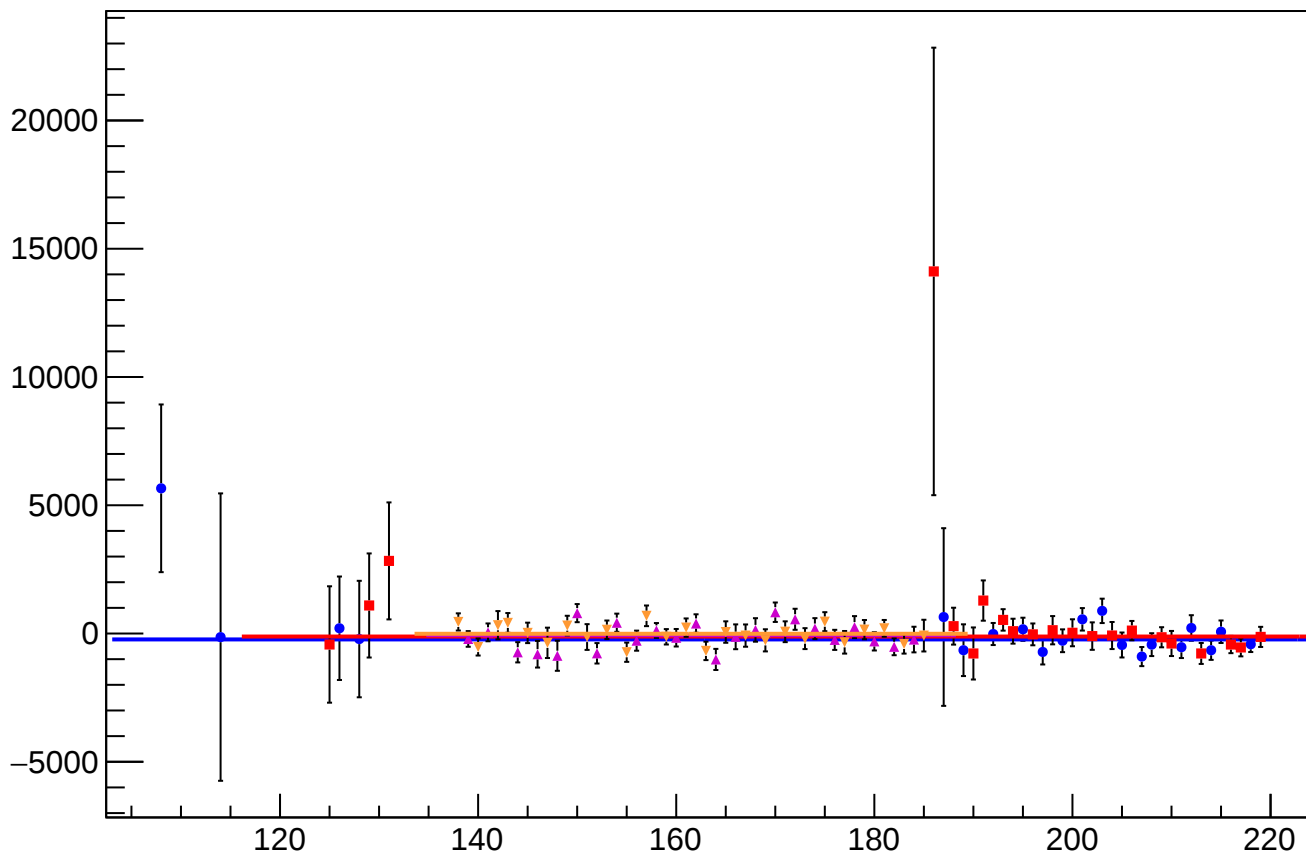
Right: 72.987+/-0.009 χ^2/NDF : 2948204.0/69

In: 76.190+/-0.009 χ^2/NDF : 1398816.9/55

Out: 76.699+/-0.009 χ^2/NDF : 2075085.4/61

All: 76.450+/-0.006 χ^2/NDF : 3475498.4/117

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: -230.286 ± 111.752 χ^2/NDF : 21.3/19

Left Out: -10.486 ± 78.391 χ^2/NDF : 22.5/24

Right Out: -117.508 ± 110.435 χ^2/NDF : 17.2/20

Left In: -64.591 ± 80.047 χ^2/NDF : 37.4/22

Left: -36.973 ± 56.007 χ^2/NDF : 60.2/47

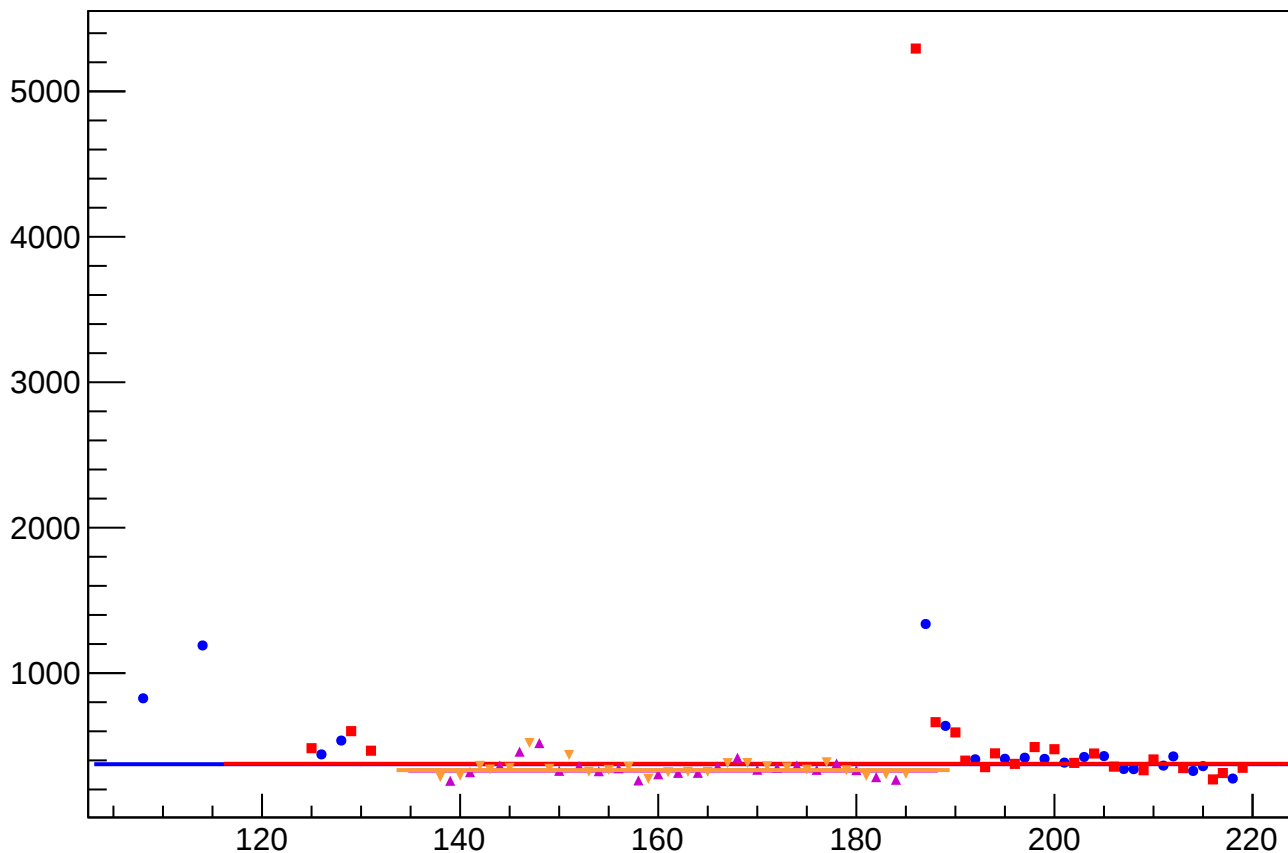
Right: -173.228 ± 78.551 χ^2/NDF : 39.0/40

In: -120.776 ± 65.075 χ^2/NDF : 60.2/42

Out: -46.344 ± 63.923 χ^2/NDF : 40.4/45

All: -82.896 ± 45.602 χ^2/NDF : 101.2/88

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 373.672+/-0.079 χ^2/NDF : 784749.7/19

Left Out: 333.233+/-0.055 χ^2/NDF : 592122.2/24

Right Out: 376.710+/-0.078 χ^2/NDF : 1650929.8/20

Left In: 329.985+/-0.057 χ^2/NDF : 795969.0/22

Left: 331.643+/-0.040 χ^2/NDF : 1389771.8/47

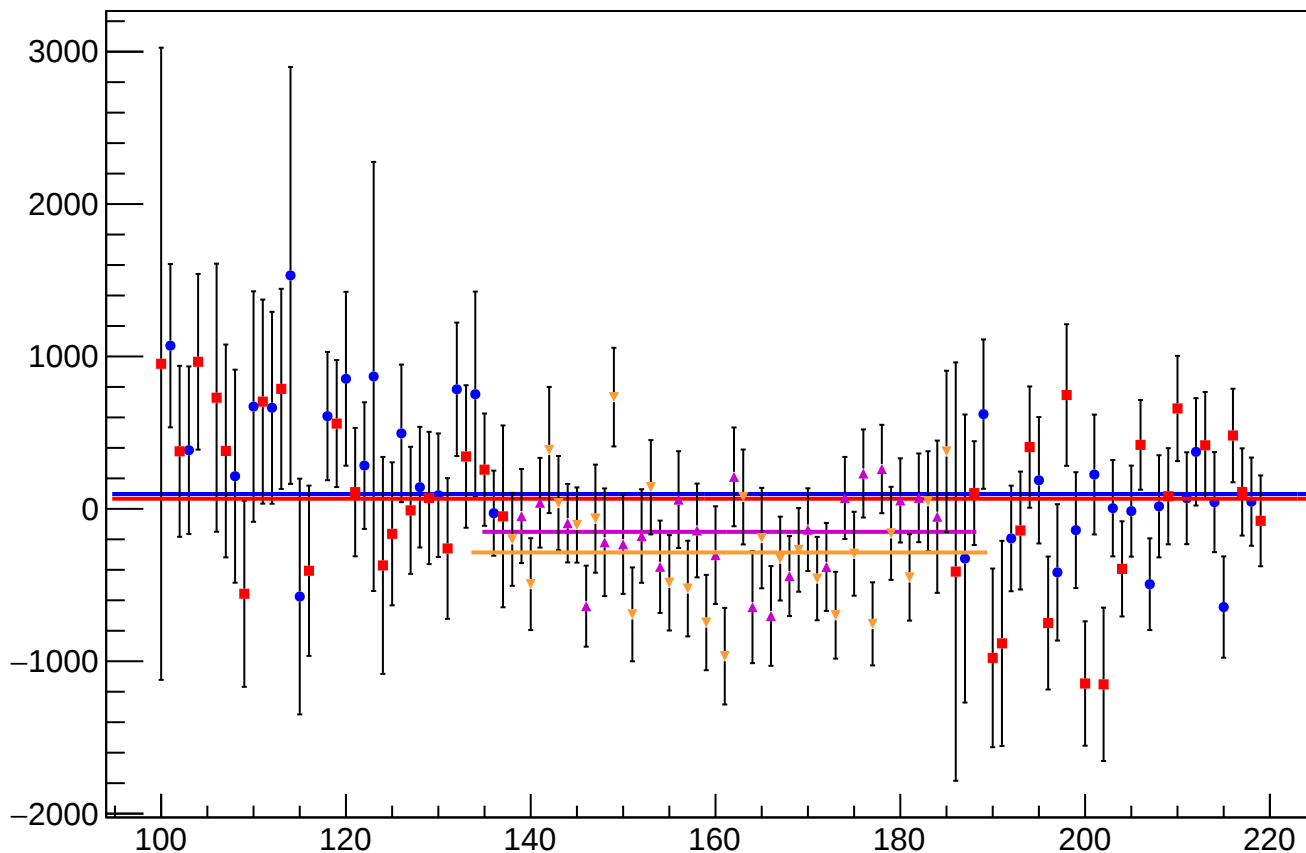
Right: 375.209+/-0.056 χ^2/NDF : 2436427.4/40

In: 344.799+/-0.046 χ^2/NDF : 1782716.1/42

Out: 347.800+/-0.045 χ^2/NDF : 2449172.9/45

All: 346.326+/-0.032 χ^2/NDF : 4234053.9/88

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 97.633 ± 71.381 $\chi^2/\text{NDF}: 28.7/32$

Left Out: -286.030 ± 61.095 $\chi^2/\text{NDF}: 36.6/24$

Right Out: 66.573 ± 71.024 $\chi^2/\text{NDF}: 47.1/36$

Left In: -150.920 ± 62.818 $\chi^2/\text{NDF}: 18.7/22$

Left: -220.353 ± 43.797 $\chi^2/\text{NDF}: 57.6/47$

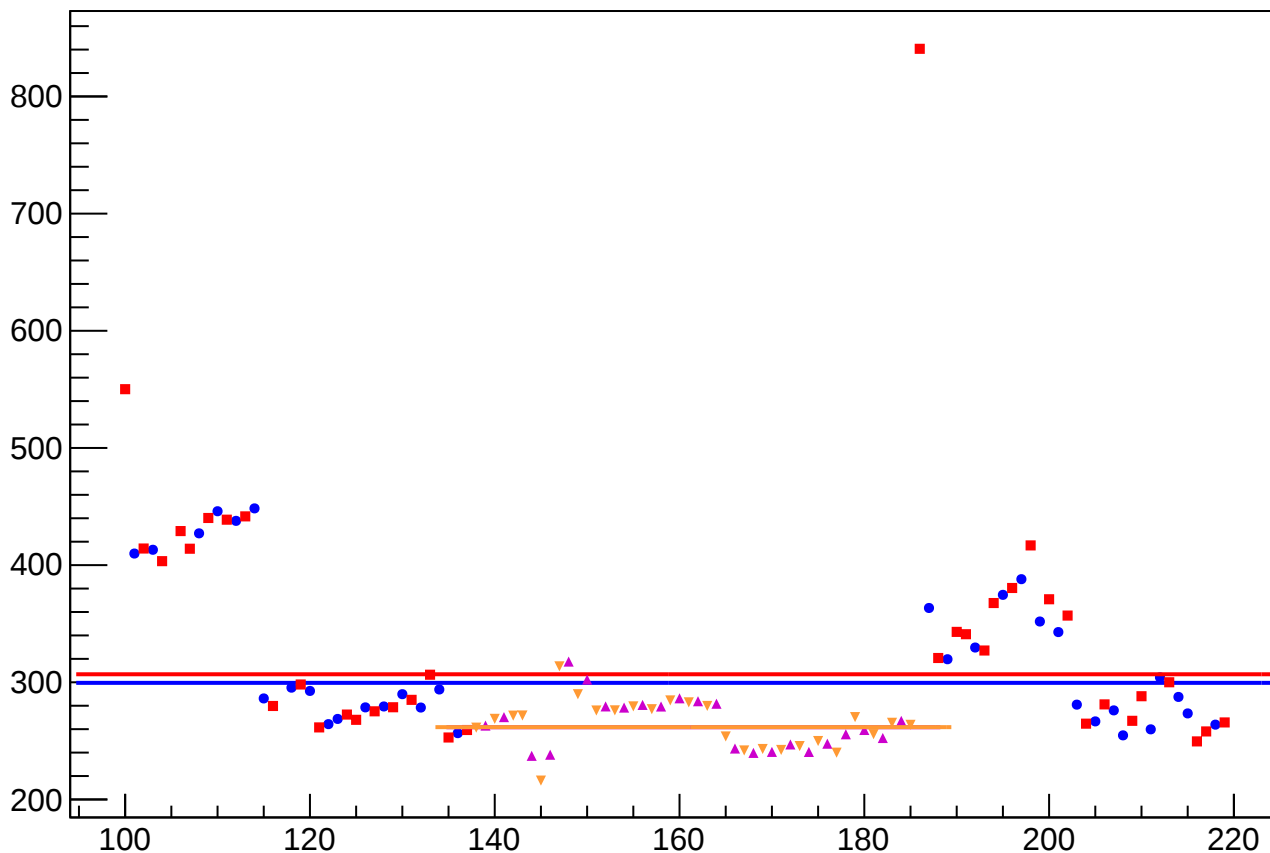
Right: 82.025 ± 50.348 $\chi^2/\text{NDF}: 75.9/69$

In: -42.440 ± 47.157 $\chi^2/\text{NDF}: 54.2/55$

Out: -136.080 ± 46.317 $\chi^2/\text{NDF}: 97.8/61$

All: -90.103 ± 33.044 $\chi^2/\text{NDF}: 154.1/117$

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 299.527+/-0.050 χ^2/NDF : 904463.5/32

Left Out: 261.722+/-0.043 χ^2/NDF : 233222.6/24

Right Out: 306.851+/-0.050 χ^2/NDF : 1491637.0/36

Left In: 261.637+/-0.044 χ^2/NDF : 228241.3/22

Left: 261.680+/-0.031 χ^2/NDF : 461465.7/47

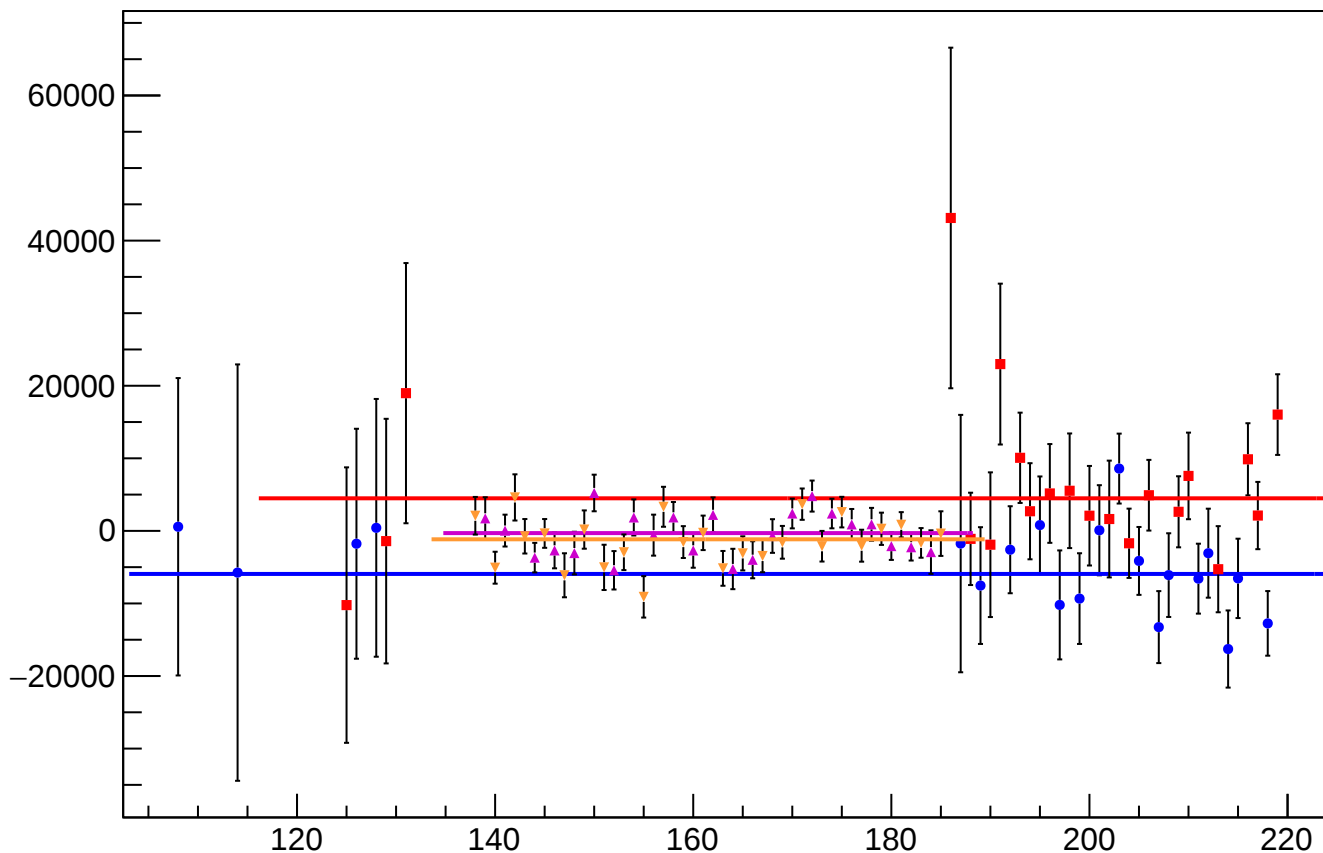
Right: 303.207+/-0.036 χ^2/NDF : 2406679.2/69

In: 278.174+/-0.033 χ^2/NDF : 1450287.4/55

Out: 280.913+/-0.033 χ^2/NDF : 2188941.8/61

All: 279.568+/-0.023 χ^2/NDF : 3642665.2/117

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: -5933.505+/-1418.203 χ^2/NDF : 21.1/19

Left Out: -1161.443+/-469.036 χ^2/NDF : 38.8/24

Right Out: 4488.275+/-1442.281 χ^2/NDF : 19.8/20

Left In: -304.366+/-483.778 χ^2/NDF : 35.4/22

Left: -746.162+/-336.750 χ^2/NDF : 75.7/47

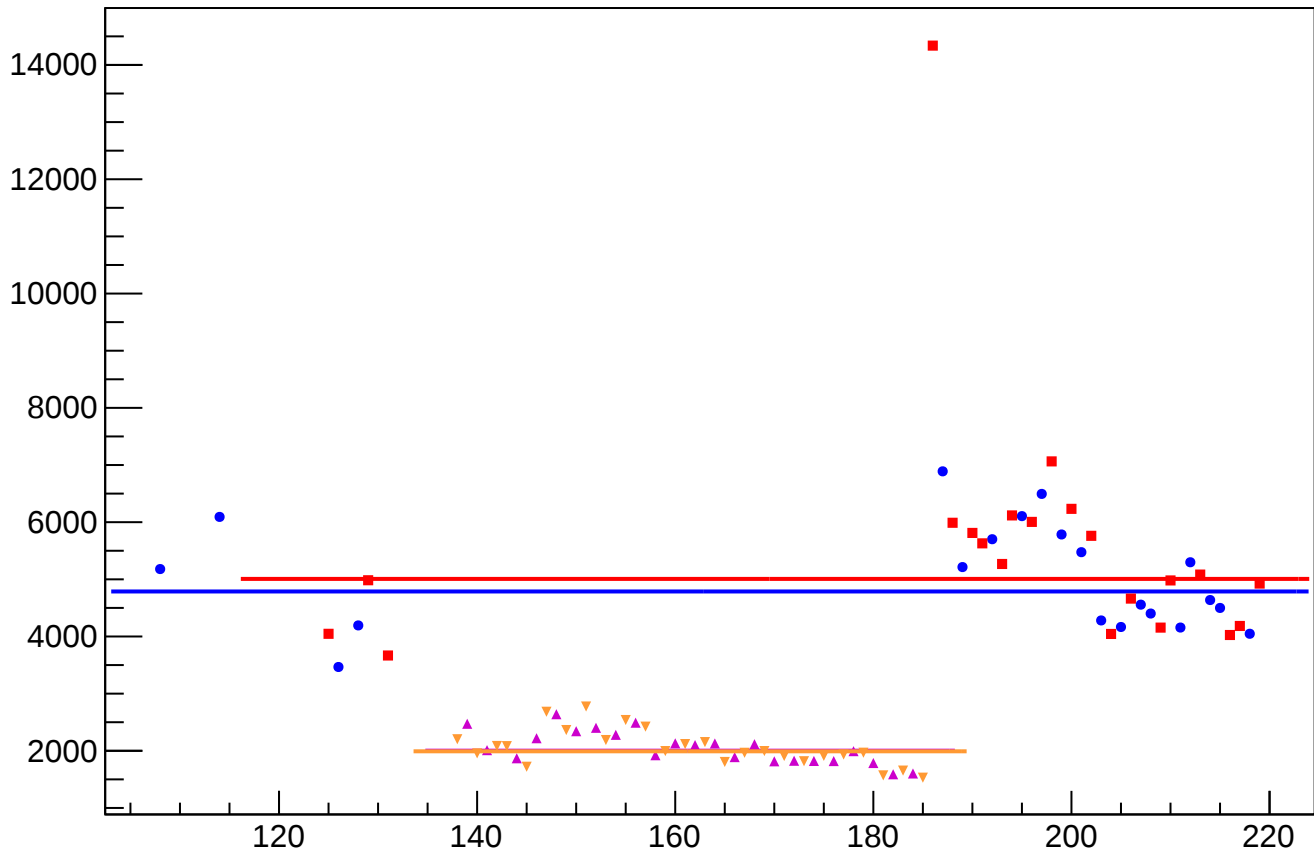
Right: -810.334+/-1011.226 χ^2/NDF : 67.4/40

In: -891.115+/-457.872 χ^2/NDF : 70.5/42

Out: -621.087+/-446.043 χ^2/NDF : 72.4/45

All: -752.568+/-319.500 χ^2/NDF : 143.1/88

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 4787.642 $\pm$ 1.003 χ^2 /NDF: 538789.3/19

Left Out: 1991.105 $\pm$ 0.332 χ^2 /NDF: 726310.6/24

Right Out: 5007.588 $\pm$ 1.020 χ^2 /NDF: 1013122.3/20

Left In: 2002.154 $\pm$ 0.342 χ^2 /NDF: 585947.4/22

Left: 1996.458 $\pm$ 0.238 χ^2 /NDF: 1312795.7/47

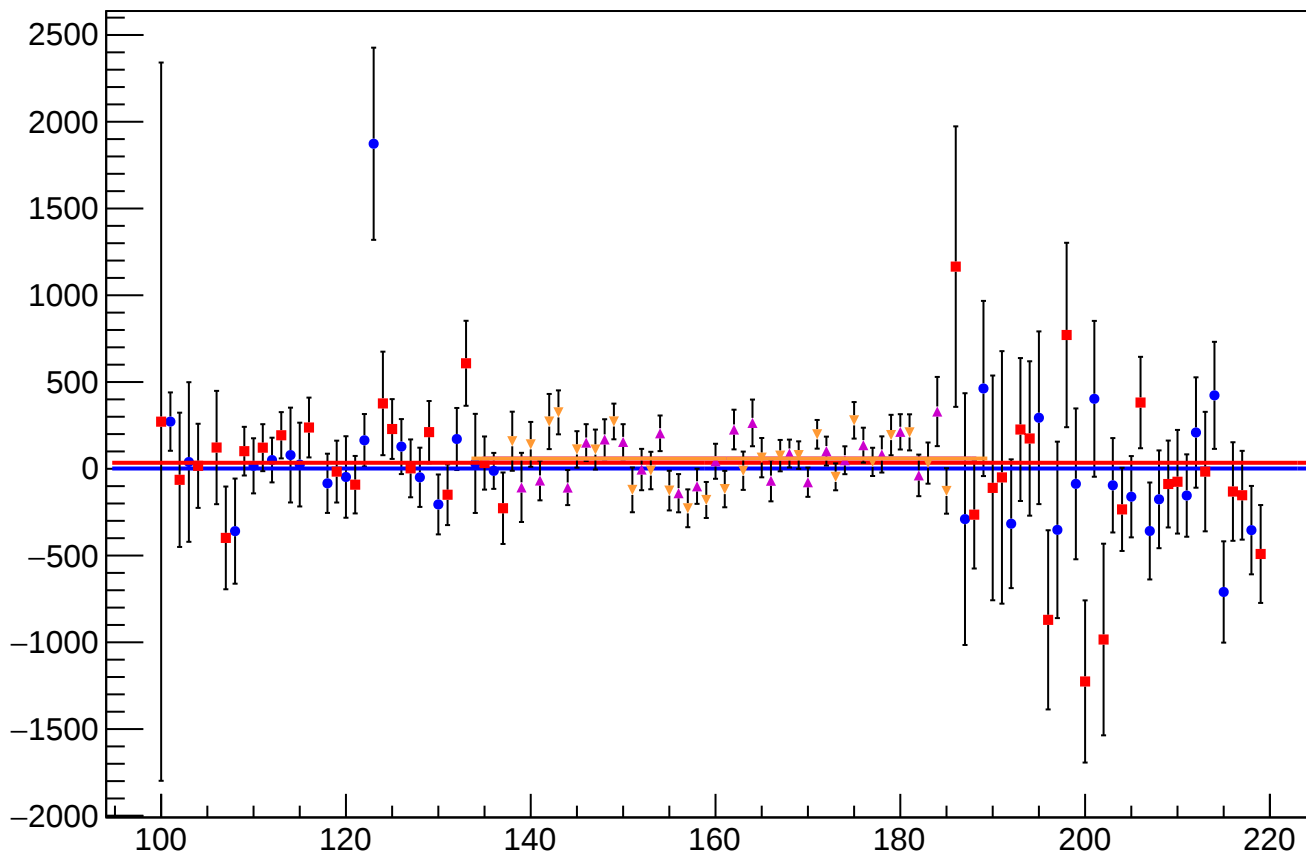
Right: 4895.763 $\pm$ 0.715 χ^2 /NDF: 1575558.8/40

In: 2292.497 $\pm$ 0.324 χ^2 /NDF: 8035884.7/42

Out: 2279.610 $\pm$ 0.315 χ^2 /NDF: 9651168.3/45

All: 2285.885 $\pm$ 0.226 χ^2 /NDF: 17687866.0/86

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 1.581 ± 38.378 χ^2/NDF : 36.9/32

Left Out: 58.983 ± 21.137 χ^2/NDF : 46.9/24

Right Out: 34.610 ± 38.194 χ^2/NDF : 44.9/36

Left In: 59.235 ± 21.921 χ^2/NDF : 29.4/22

Left: 59.104 ± 15.216 χ^2/NDF : 76.3/47

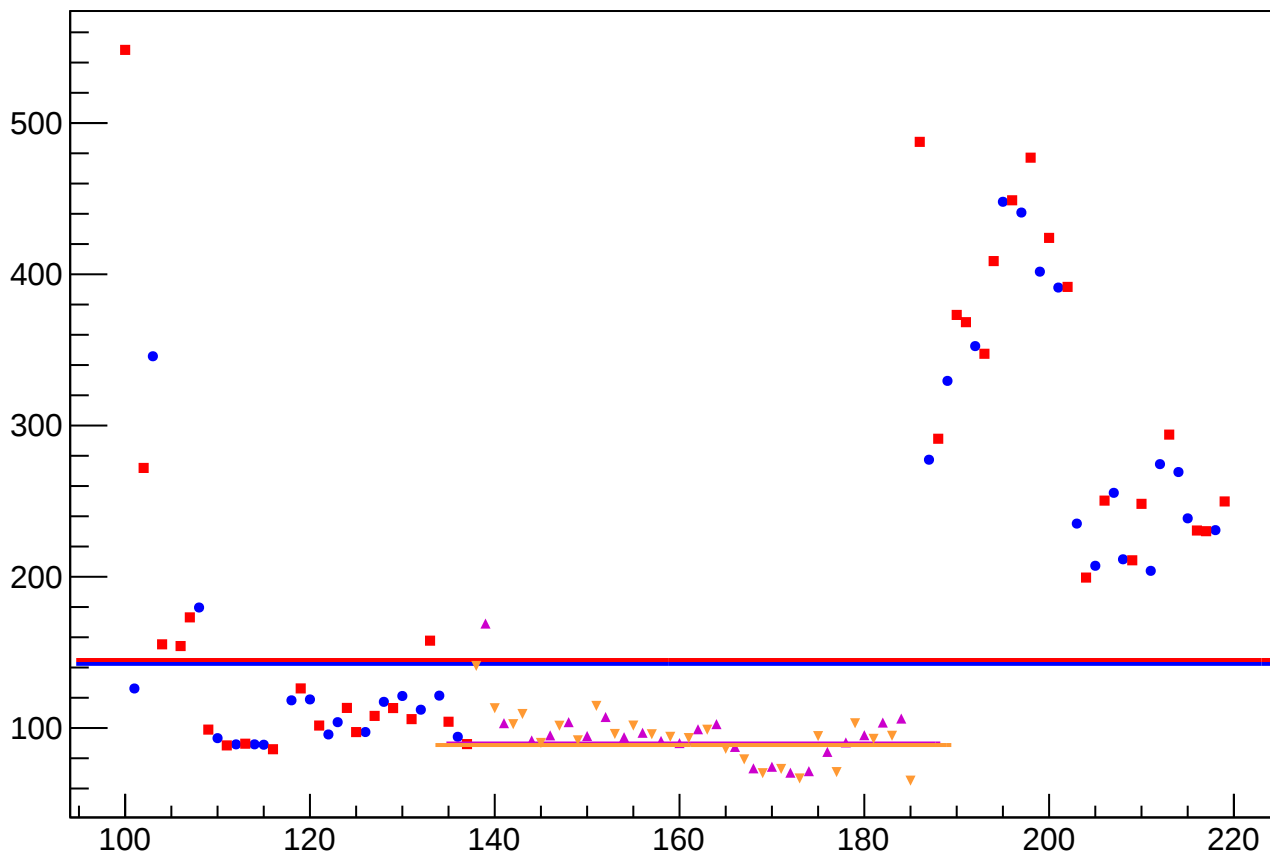
Right: 18.175 ± 27.072 χ^2/NDF : 82.1/69

In: 45.052 ± 19.035 χ^2/NDF : 68.0/55

Out: 53.268 ± 18.494 χ^2/NDF : 92.1/61

All: 49.278 ± 13.264 χ^2/NDF : 160.2/117

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 142.426 $\pm$ 0.027 χ^2 /NDF: 8007685.0/32

Left Out: 88.748 $\pm$ 0.015 χ^2 /NDF:1079338.8/24

Right Out: 144.963 $\pm$ 0.027 χ^2 /NDF: 9216068.1/36

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

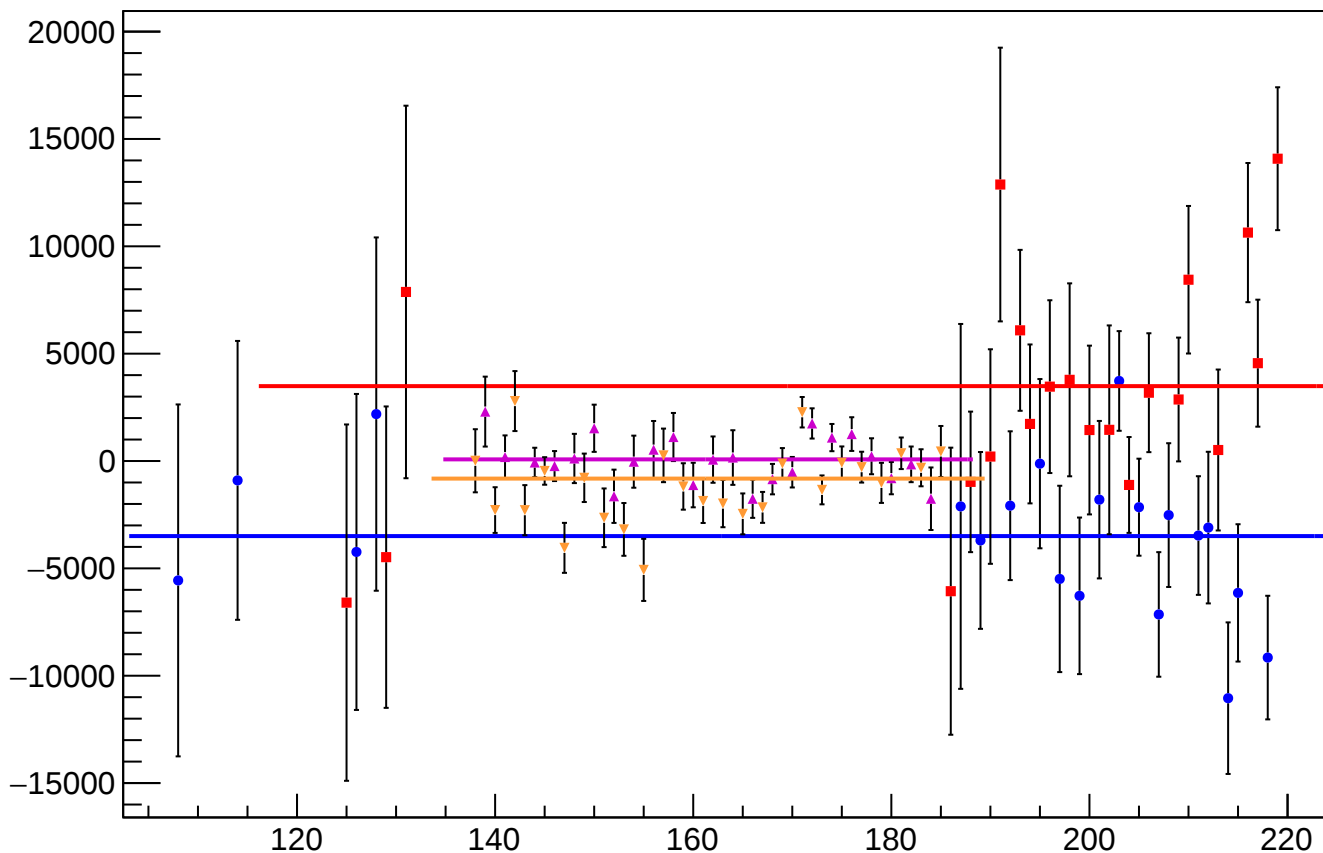
Right: 143.701 $\pm$ 0.019 χ^2 /NDF: 17228141.1/69

In: 102.720 $\pm$ 0.013 χ^2 /NDF:11732764.9/55

Out: 101.928 $\pm$ 0.013 χ^2 /NDF:13612038.0/61

All: 102.313 $\pm$ 0.009 χ^2 /NDF: 25346582.7/11

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: -3496.525 $\pm$ 791.946 χ^2 /NDF: 23.5/19

Left Out: -818.877 $\pm$ 184.464 χ^2 /NDF:68.2/24

Right Out: 3487.823 $\pm$ 816.987 χ^2 /NDF: 32.8/20

Left In: 76.204 $\pm$ 186.651 χ^2 /NDF:28.3/22

Left: -376.610 $\pm$ 131.202 χ^2 /NDF: 108.1/47

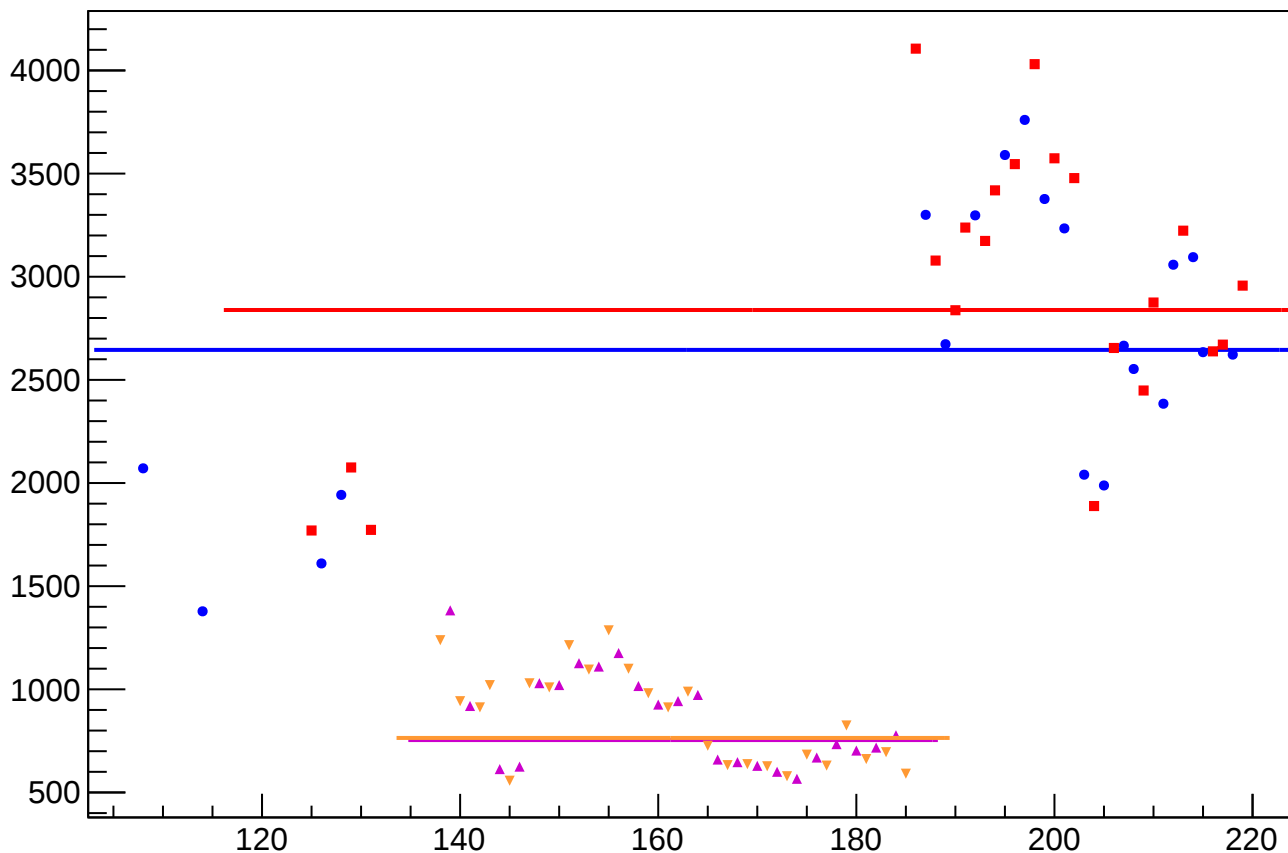
Right: -113.028 $\pm$ 568.637 χ^2 /NDF: 94.0/40

In: -111.810 $\pm$ 181.673 χ^2 /NDF:71.0/42

Out: -609.974 $\pm$ 179.935 χ^2 /NDF:127.5/45

All: -363.287 $\pm$ 127.843 χ^2 /NDF: 202.3/88

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 2645.364 $\pm$ 0.560 χ^2 /NDF: 986417.7/19

Left Out: 764.280 $\pm$ 0.130 χ^2 /NDF: 2315985.8/24

Right Out: 2838.779 $\pm$ 0.578 χ^2 /NDF: 995452.8/20

Left In: 754.027 $\pm$ 0.132 χ^2 /NDF: 2013386.7/22

Left: 759.214 $\pm$ 0.093 χ^2 /NDF: 4332425.4/47

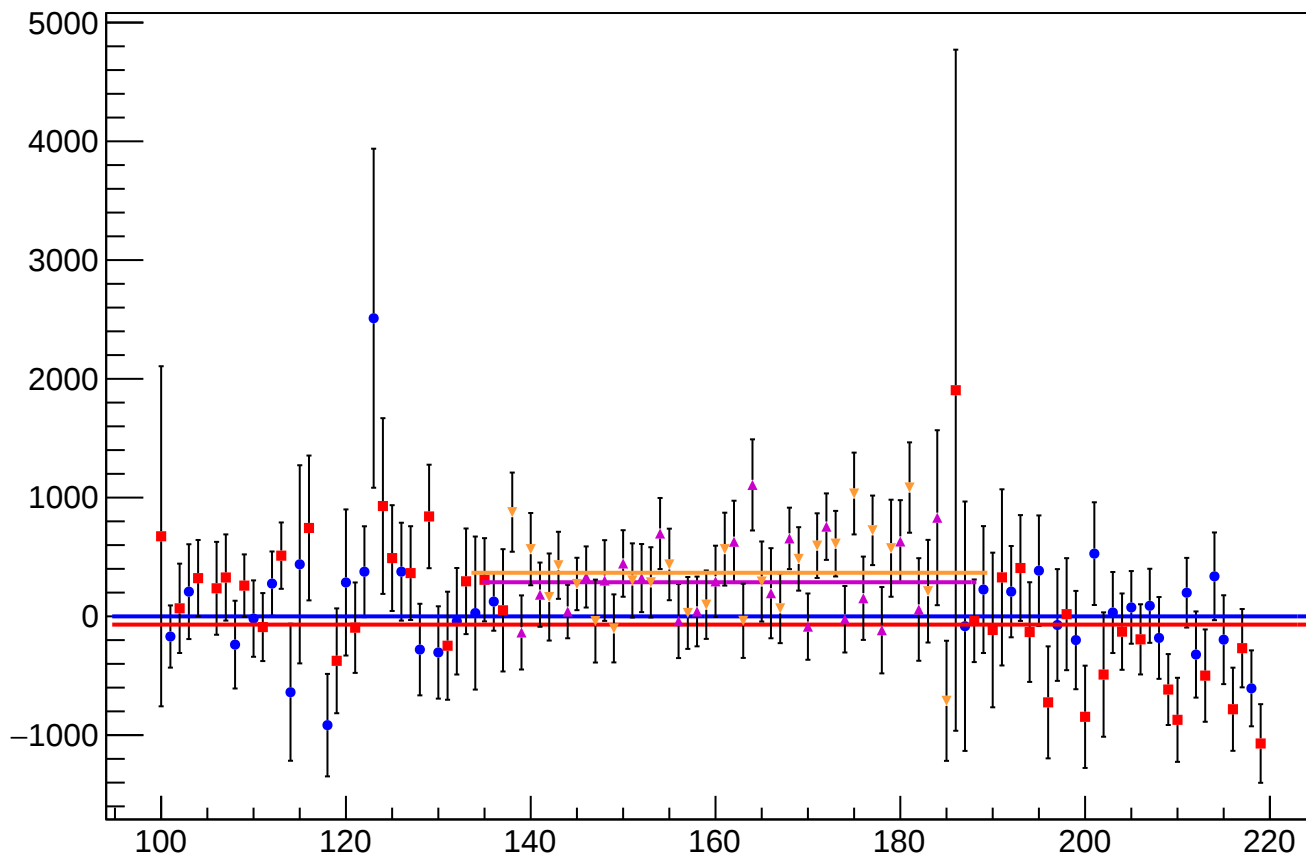
Right: 2739.062 $\pm$ 0.402 χ^2 /NDF: 2039661.6/40

In: 853.558 $\pm$ 0.128 χ^2 /NDF: 13806650.3/42

Out: 864.906 $\pm$ 0.127 χ^2 /NDF: 15581090.1/45

All: 859.287 $\pm$ 0.090 χ^2 /NDF: 29391679.7/88

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -0.185 ± 66.307 $\chi^2/\text{NDF}: 24.0/32$

Left Out: 367.028 ± 61.943 $\chi^2/\text{NDF}: 28.2/24$

Right Out: -69.459 ± 64.456 $\chi^2/\text{NDF}: 54.2/36$

Left In: 287.246 ± 64.141 $\chi^2/\text{NDF}: 23.9/22$

Left: 328.527 ± 44.557 $\chi^2/\text{NDF}: 52.9/47$

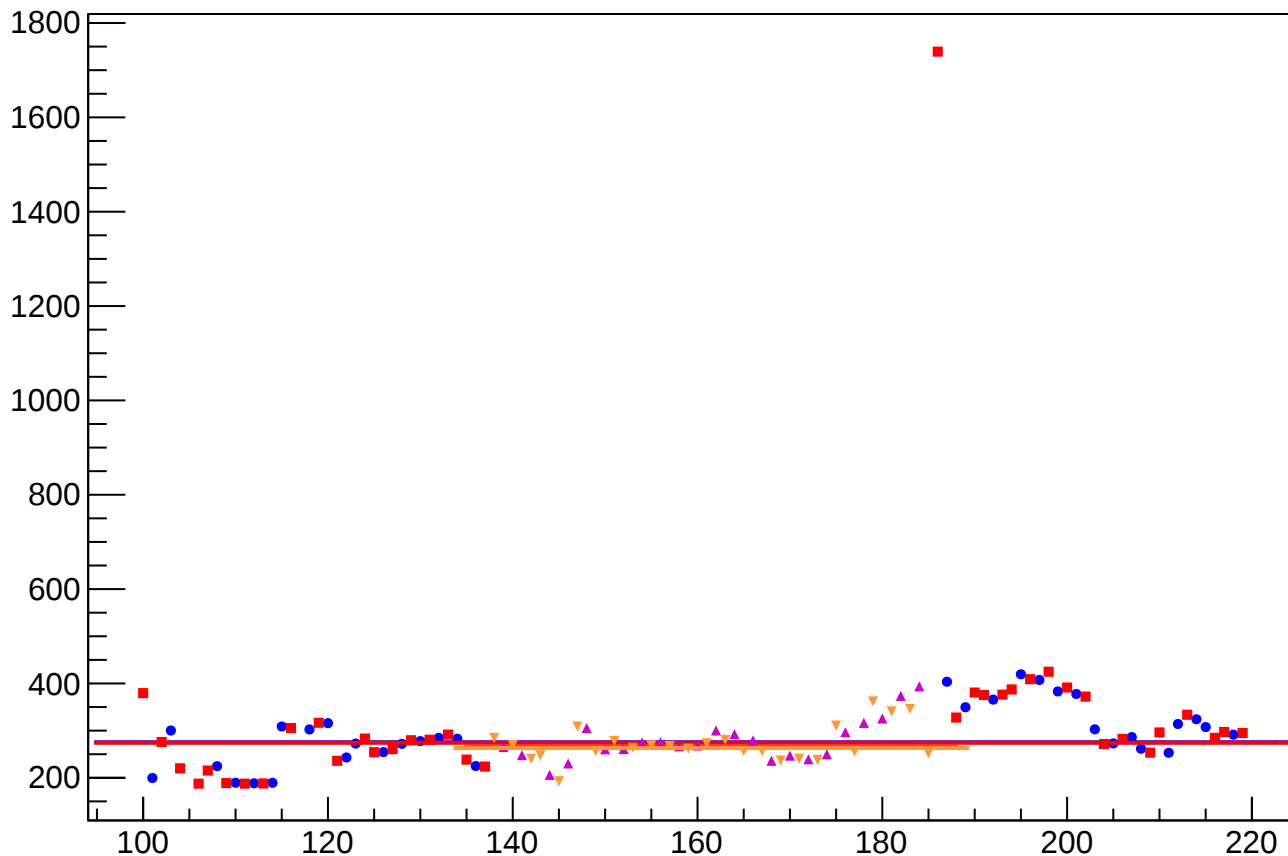
Right: -35.803 ± 46.218 $\chi^2/\text{NDF}: 78.7/69$

In: 148.303 ± 46.101 $\chi^2/\text{NDF}: 57.5/55$

Out: 157.456 ± 44.662 $\chi^2/\text{NDF}: 106.3/61$

All: 153.025 ± 32.078 $\chi^2/\text{NDF}: 163.9/117$

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 275.328+/-0.047 χ^2/NDF : 1614739.1/32

Left Out: 263.103+/-0.044 χ^2/NDF : 642226.0/24

Right Out: 274.381+/-0.046 χ^2/NDF : 2478569.9/36

Left In: 264.923+/-0.045 χ^2/NDF : 609024.7/22

Left: 263.981+/-0.032 χ^2/NDF : 1252084.1/47

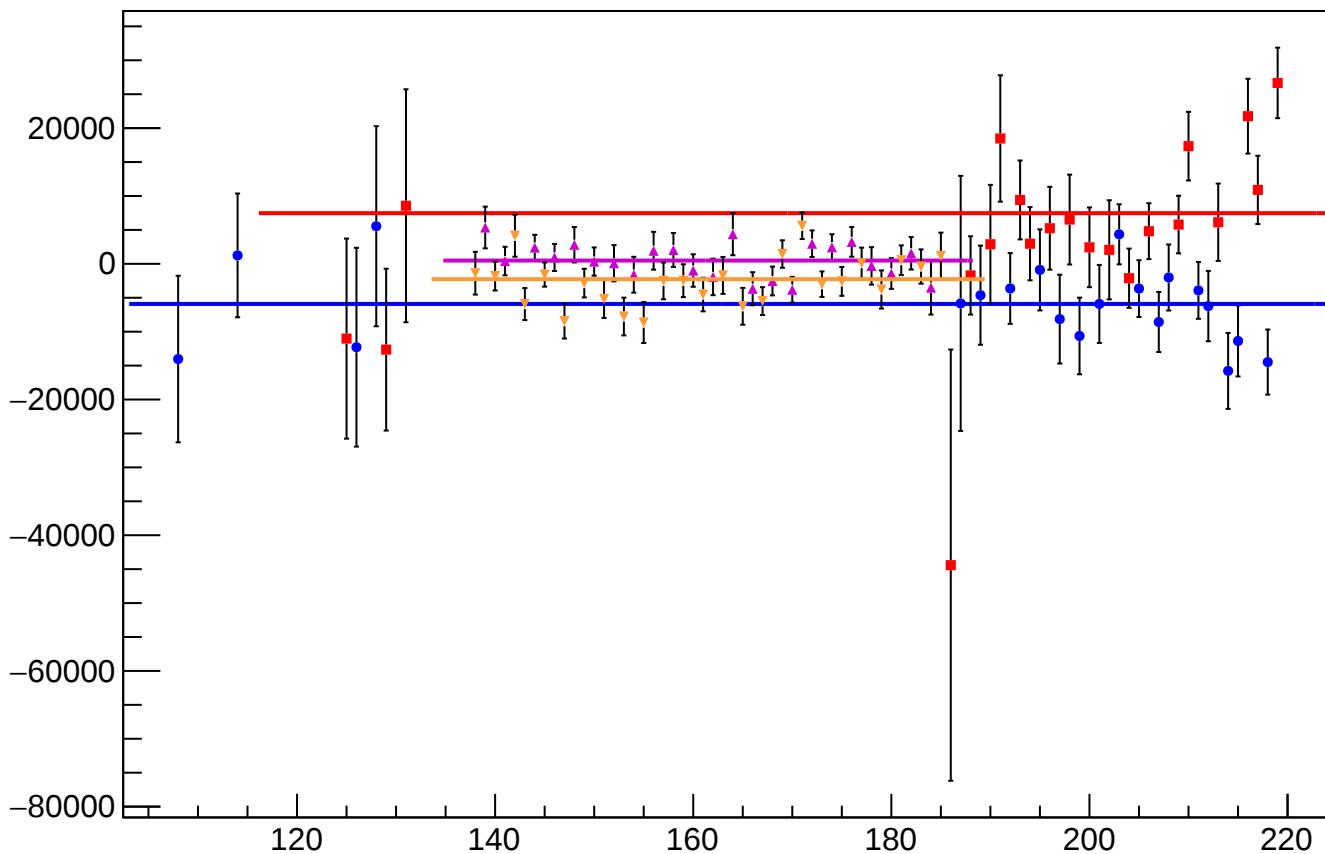
Right: 274.841+/-0.033 χ^2/NDF : 4093518.8/69

In: 269.953+/-0.033 χ^2/NDF : 2249206.2/55

Out: 268.518+/-0.032 χ^2/NDF : 3152628.3/61

All: 269.213+/-0.023 χ^2/NDF : 5402834.1/117

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: -5911.799 $\pm$ 1283.782 χ^2/NDF : 17.9/19

Left Out: -2260.196 $\pm$ 475.336 χ^2/NDF : 52.3/24

Right Out: 7468.144 $\pm$ 1315.101 χ^2/NDF : 43.6/20

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

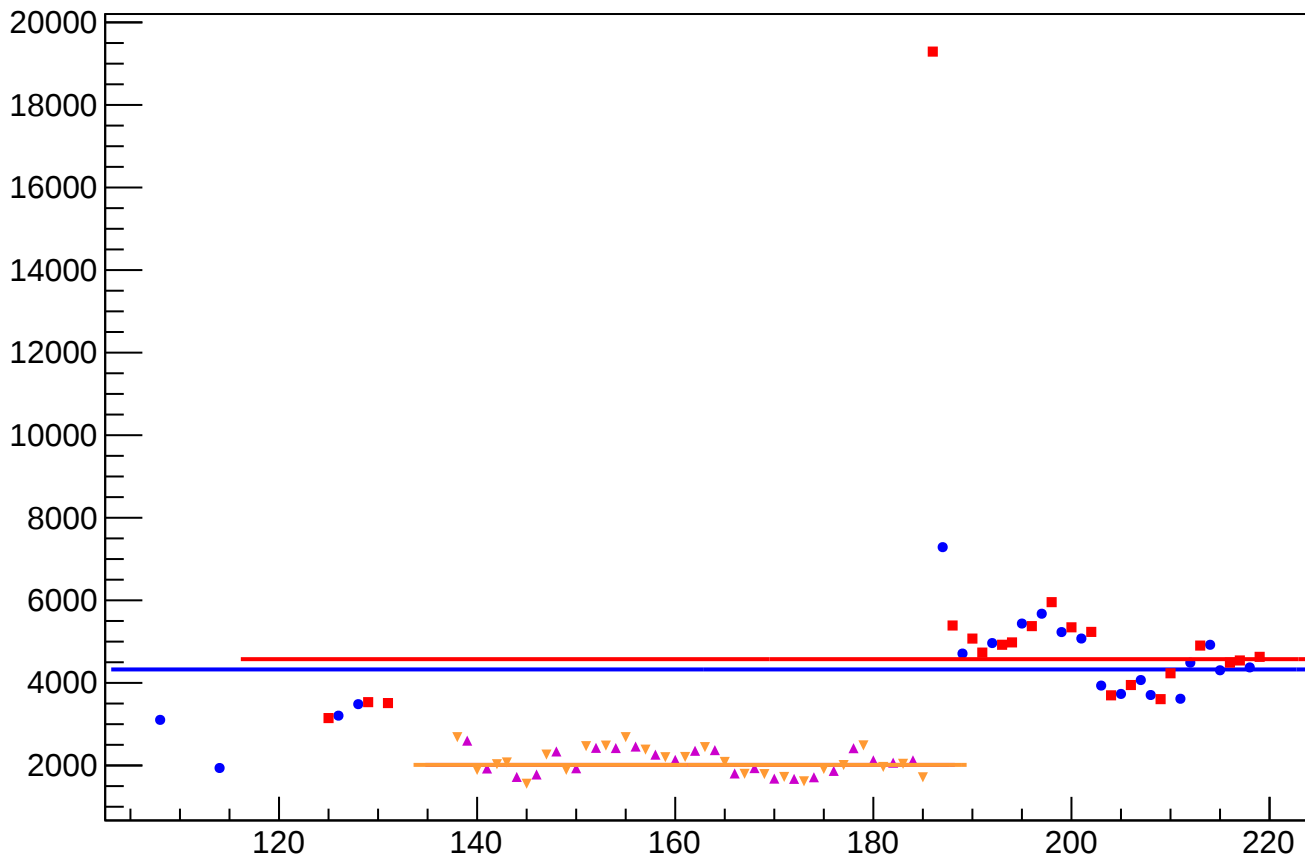
Right: 616.952 $\pm$ 918.644 χ^2/NDF : 114.5/40

In: -320.556 $\pm$ 455.718 χ^2/NDF : 64.3/42

Out: -1136.119 $\pm$ 447.031 χ^2/NDF : 144.3/45

All: -736.185 $\pm$ 319.126 χ^2/NDF : 210.3/88

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 4325.857+/-0.908 χ^2/NDF : 677301.1/19

Left Out: 2014.106+/-0.336 χ^2/NDF : 835656.9/24

Right Out: 4575.015+/-0.930 χ^2/NDF : 955730.9/20

Left In: 2013.245+/-0.345 χ^2/NDF : 662077.8/22

Left: 2013.686+/-0.241 χ^2/NDF : 1497737.9/47

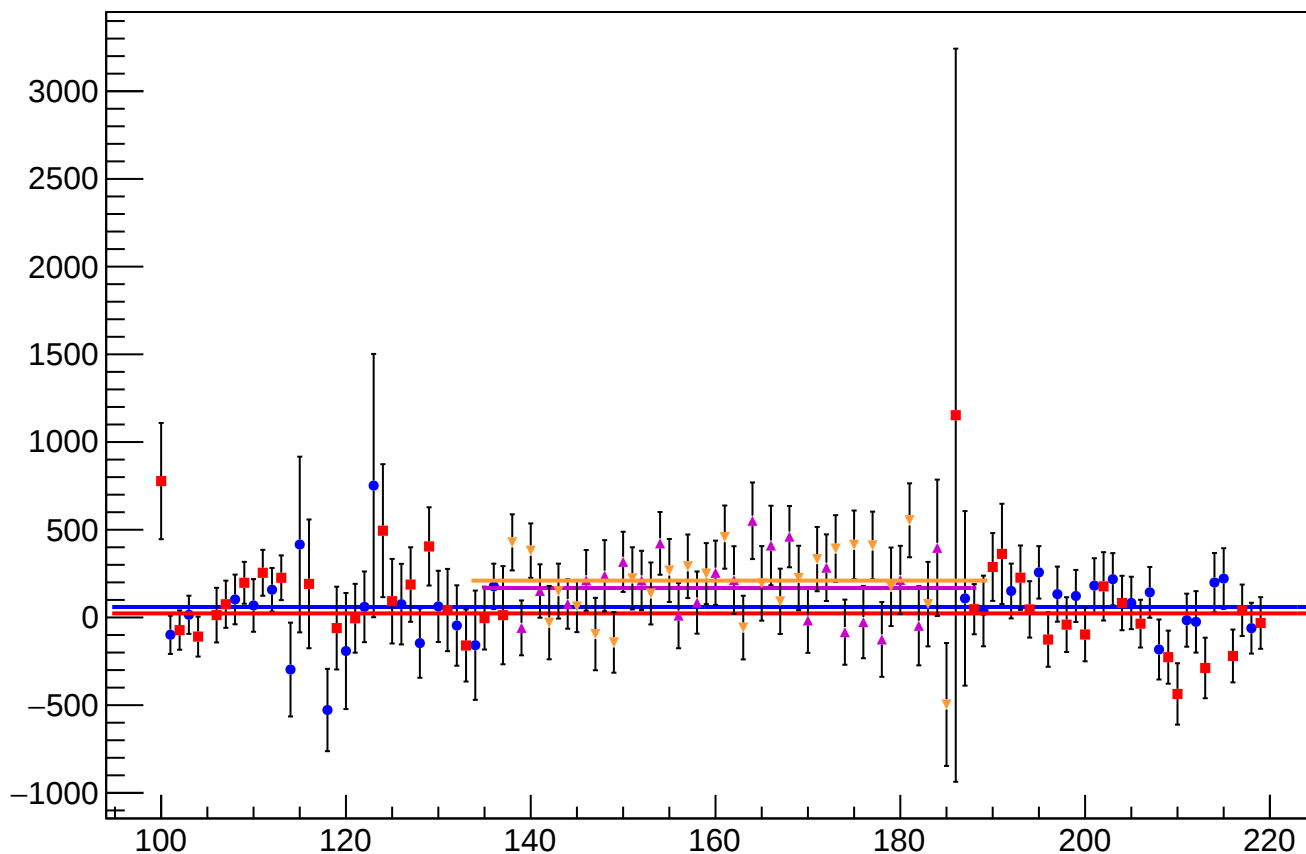
Right: 4447.434+/-0.650 χ^2/NDF : 1669791.8/40

In: 2304.661+/-0.322 χ^2/NDF : 7011674.0/42

Out: 2310.010+/-0.316 χ^2/NDF : 8499110.9/45

All: 2307.387+/-0.226 χ^2/NDF : 15510925.3/86

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 59.565 $\pm$ 29.322 χ^2 /NDF: 24.9/32

Left Out: 210.086 $\pm$ 37.093 χ^2 /NDF:27.5/24

Right Out: 23.134 $\pm$ 27.666 χ^2 /NDF: 44.7/36

Left In: 167.822 $\pm$ 38.718 χ^2 /NDF:21.1/22

Left: 189.859 $\pm$ 26.785 χ^2 /NDF: 49.3/47

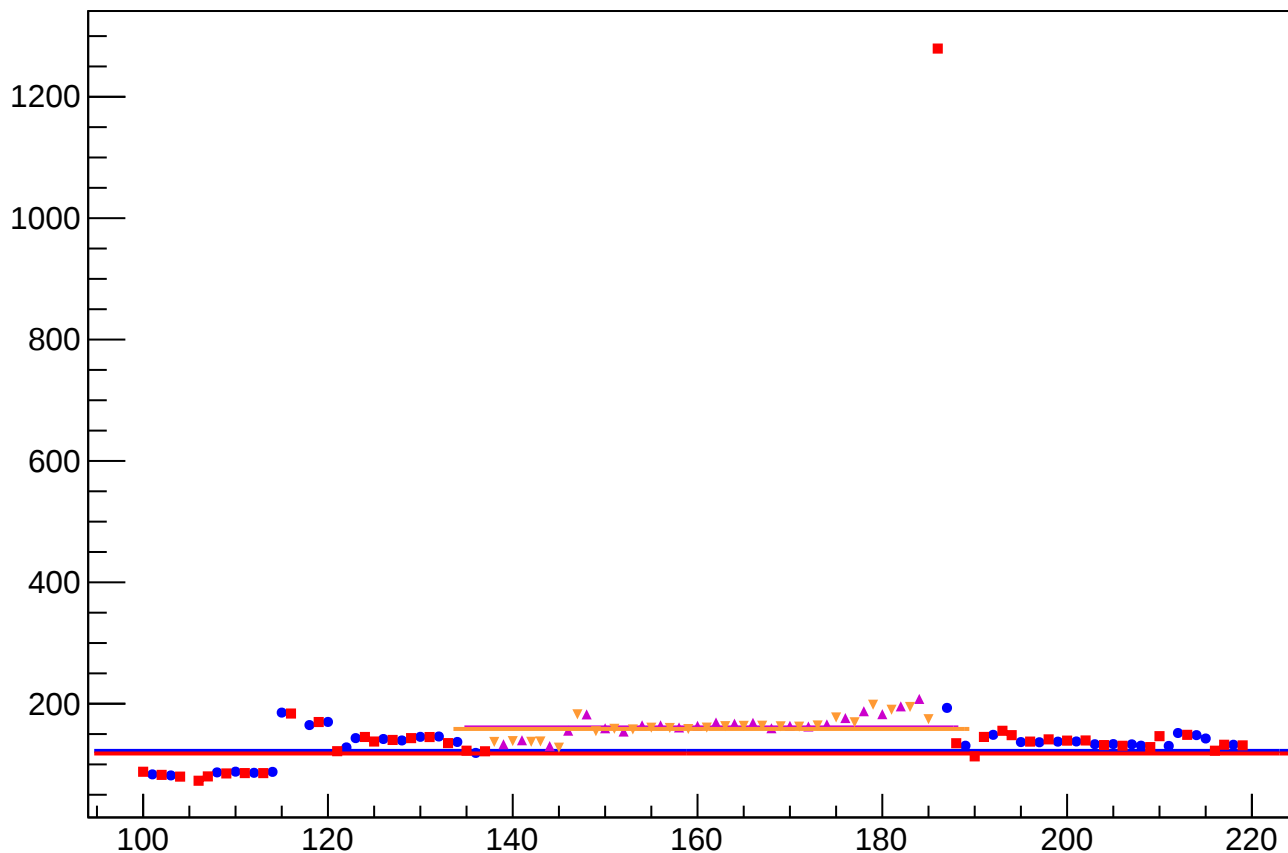
Right: 40.292 $\pm$ 20.123 χ^2 /NDF: 70.4/69

In: 99.024 $\pm$ 23.375 χ^2 /NDF:51.0/55

Out: 89.961 $\pm$ 22.177 χ^2 /NDF:88.5/61

All: 94.254 $\pm$ 16.089 χ^2 /NDF: 139.7/117

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 122.257+/-0.021 χ^2/NDF : 1548731.4/32

Left Out: 158.440+/-0.026 χ^2/NDF : 434300.9/24

Right Out: 117.979+/-0.020 χ^2/NDF : 2595315.5/36

Left In: 160.947+/-0.027 χ^2/NDF : 379713.4/22

Left: 159.640+/-0.019 χ^2/NDF : 818385.9/47

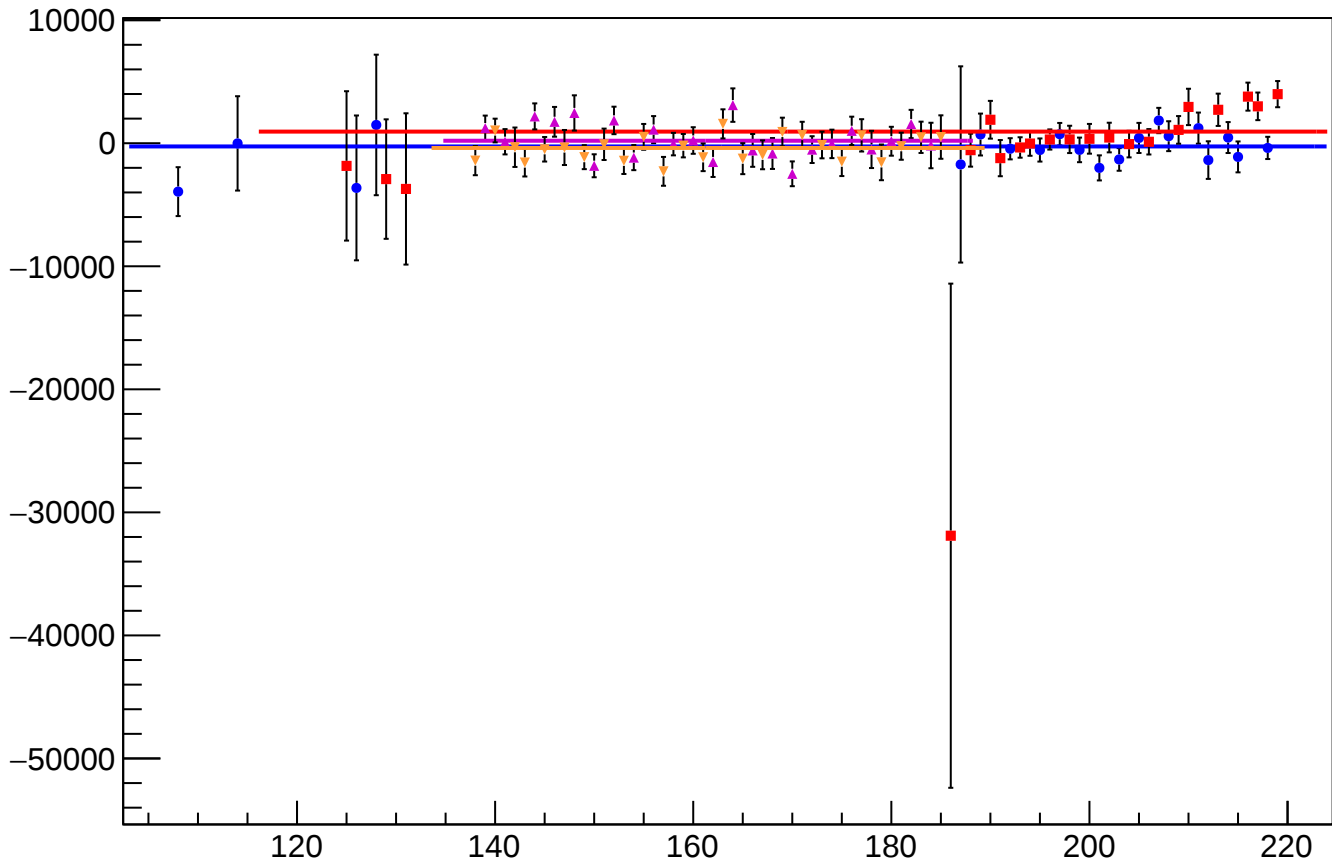
Right: 119.994+/-0.014 χ^2/NDF : 4166564.6/69

In: 136.359+/-0.017 χ^2/NDF : 3197656.1/55

Out: 132.442+/-0.016 χ^2/NDF : 4558653.4/61

All: 134.298+/-0.011 χ^2/NDF : 7785869.1/117

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: -261.432 $\pm$ 273.151 χ^2 /NDF: 17.6/19

Left Out: -385.018 $\pm$ 231.833 χ^2 /NDF:18.1/24

Right Out: 944.719 $\pm$ 269.628 χ^2 /NDF: 35.5/20

Left In: 202.234 $\pm$ 237.460 χ^2 /NDF:35.5/22

Left: -98.432 $\pm$ 165.884 χ^2 /NDF: 56.7/47

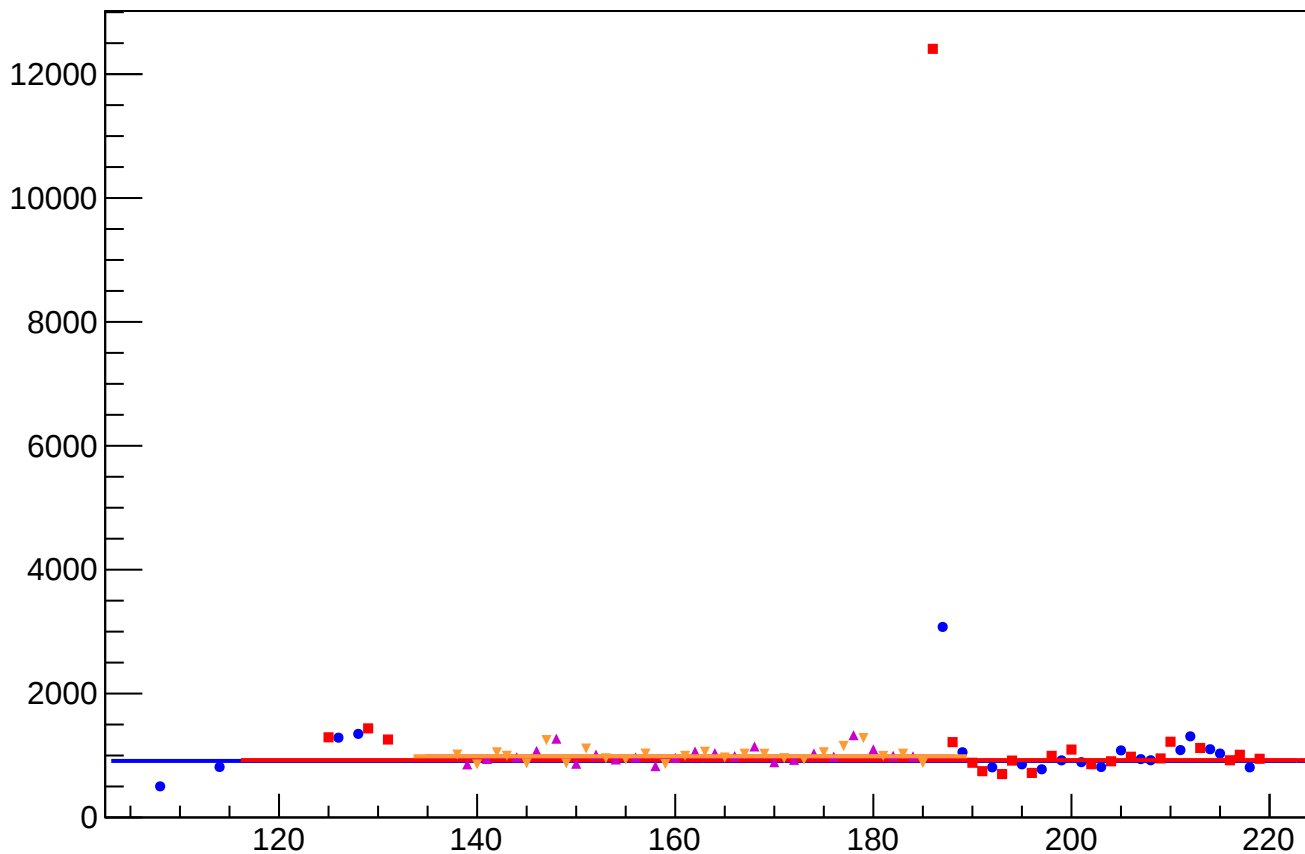
Right: 349.471 $\pm$ 191.889 χ^2 /NDF: 62.9/40

In: 2.653 $\pm$ 179.209 χ^2 /NDF:54.7/42

Out: 180.194 $\pm$ 175.788 χ^2 /NDF:67.5/45

All: 93.134 $\pm$ 125.493 χ^2 /NDF: 122.7/88

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 912.597 $\pm$ 0.193 χ^2 /NDF: 674273.2/19

Left Out: 987.869 $\pm$ 0.164 χ^2 /NDF: 376958.5/24

Right Out: 926.085 $\pm$ 0.191 χ^2 /NDF: 1262507.3/20

Left In: 983.893 $\pm$ 0.168 χ^2 /NDF: 416265.7/22

Left: 985.929 $\pm$ 0.117 χ^2 /NDF: 793511.2/47

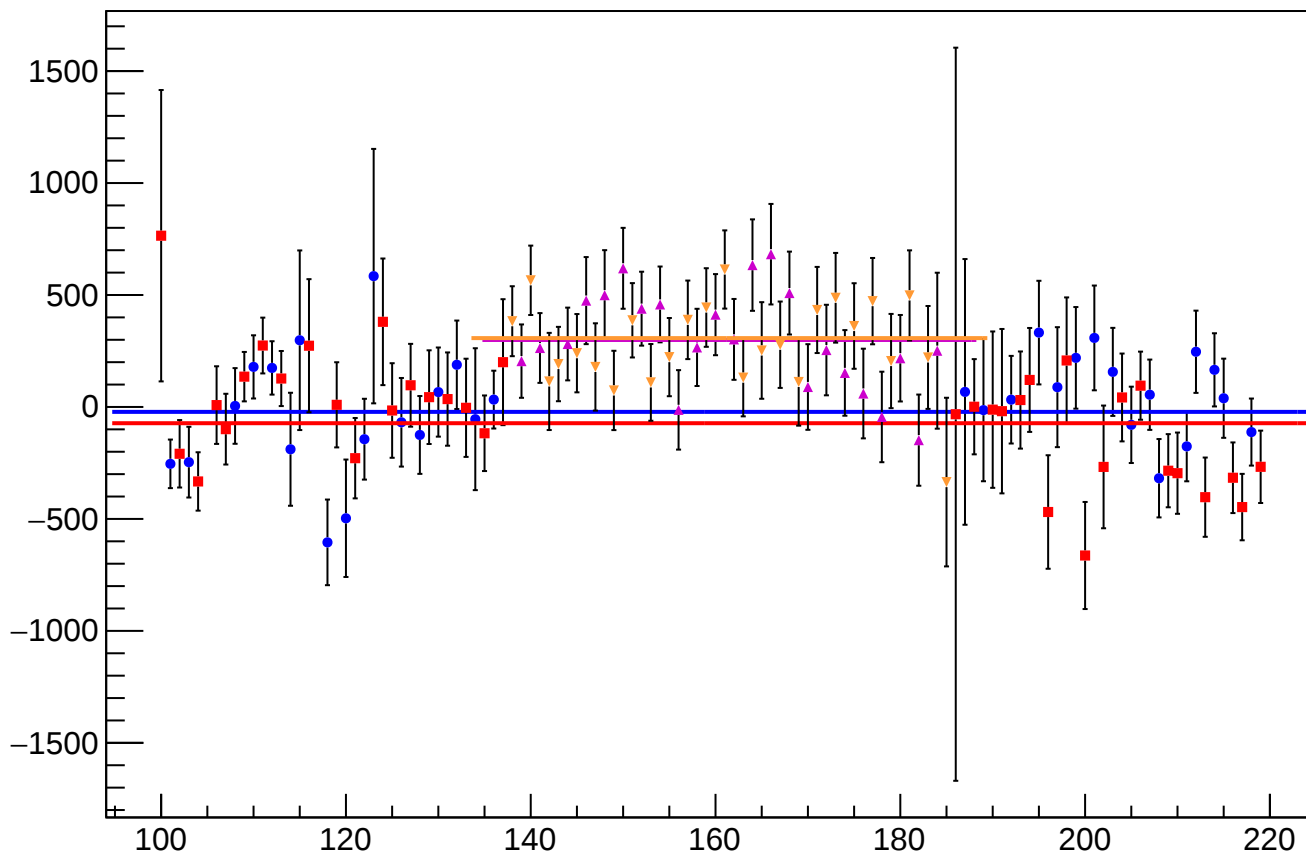
Right: 919.429 $\pm$ 0.136 χ^2 /NDF: 1939250.4/40

In: 953.205 $\pm$ 0.127 χ^2 /NDF: 1168143.9/42

Out: 961.607 $\pm$ 0.124 χ^2 /NDF: 1699843.1/45

All: 957.487 $\pm$ 0.089 χ^2 /NDF: 2870227.8/88

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -21.939 $\pm$ 31.855 χ^2 /NDF: 43.2/32

Left Out: 307.487 $\pm$ 37.278 χ^2 /NDF:20.7/24

Right Out: -72.546 $\pm$ 30.575 χ^2 /NDF: 57.7/36

Left In: 299.192 $\pm$ 39.009 χ^2 /NDF:28.5/22

Left: 303.528 $\pm$ 26.951 χ^2 /NDF: 49.3/47

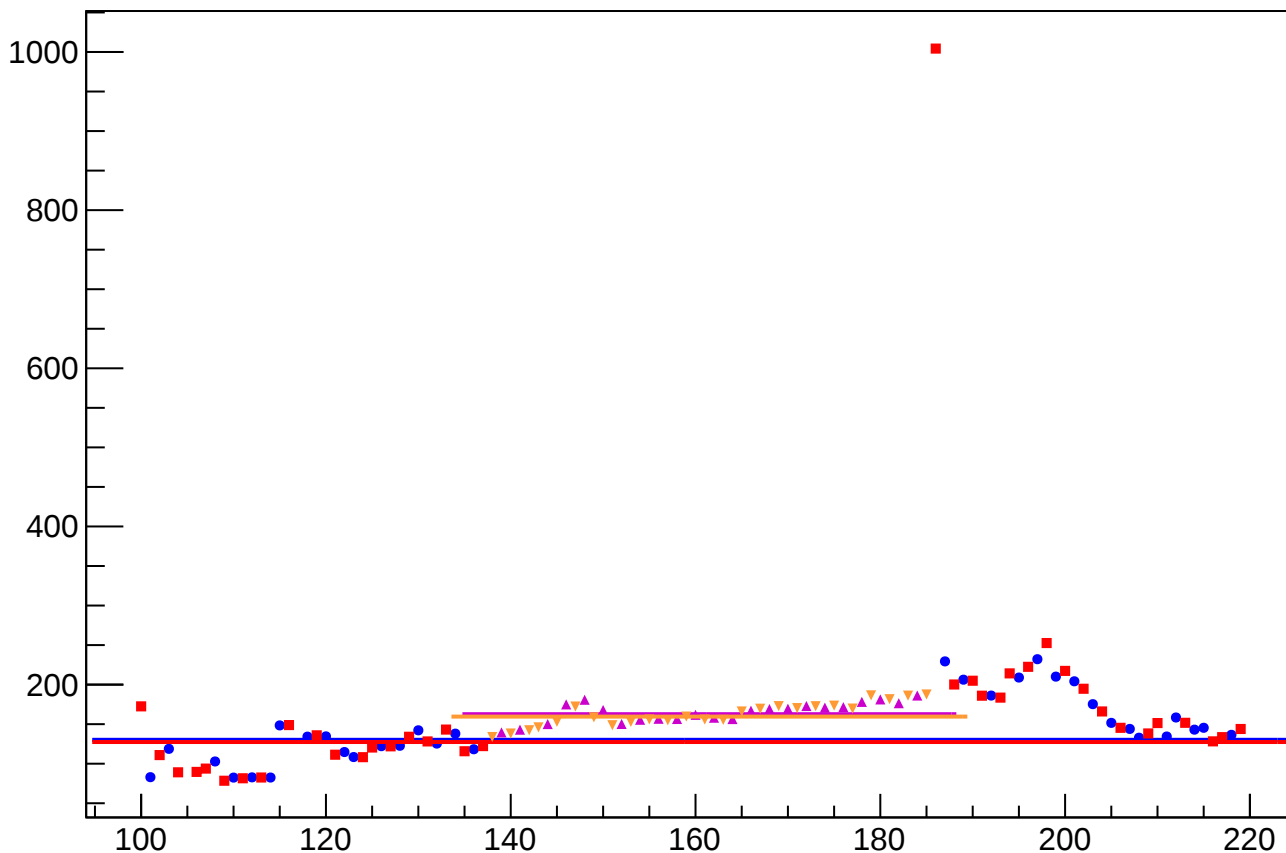
Right: -48.280 $\pm$ 22.058 χ^2 /NDF: 102.2/69

In: 106.533 $\pm$ 24.673 χ^2 /NDF:112.4/55

Out: 80.291 $\pm$ 23.640 χ^2 /NDF:140.5/61

All: 92.851 $\pm$ 17.070 χ^2 /NDF: 253.5/117

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 130.208 $\pm$ 0.023 χ^2 /NDF: 2653047.7/32

Left Out: 159.568 $\pm$ 0.026 χ^2 /NDF:287744.2/24

Right Out: 127.418 $\pm$ 0.022 χ^2 /NDF: 4051453.9/36

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

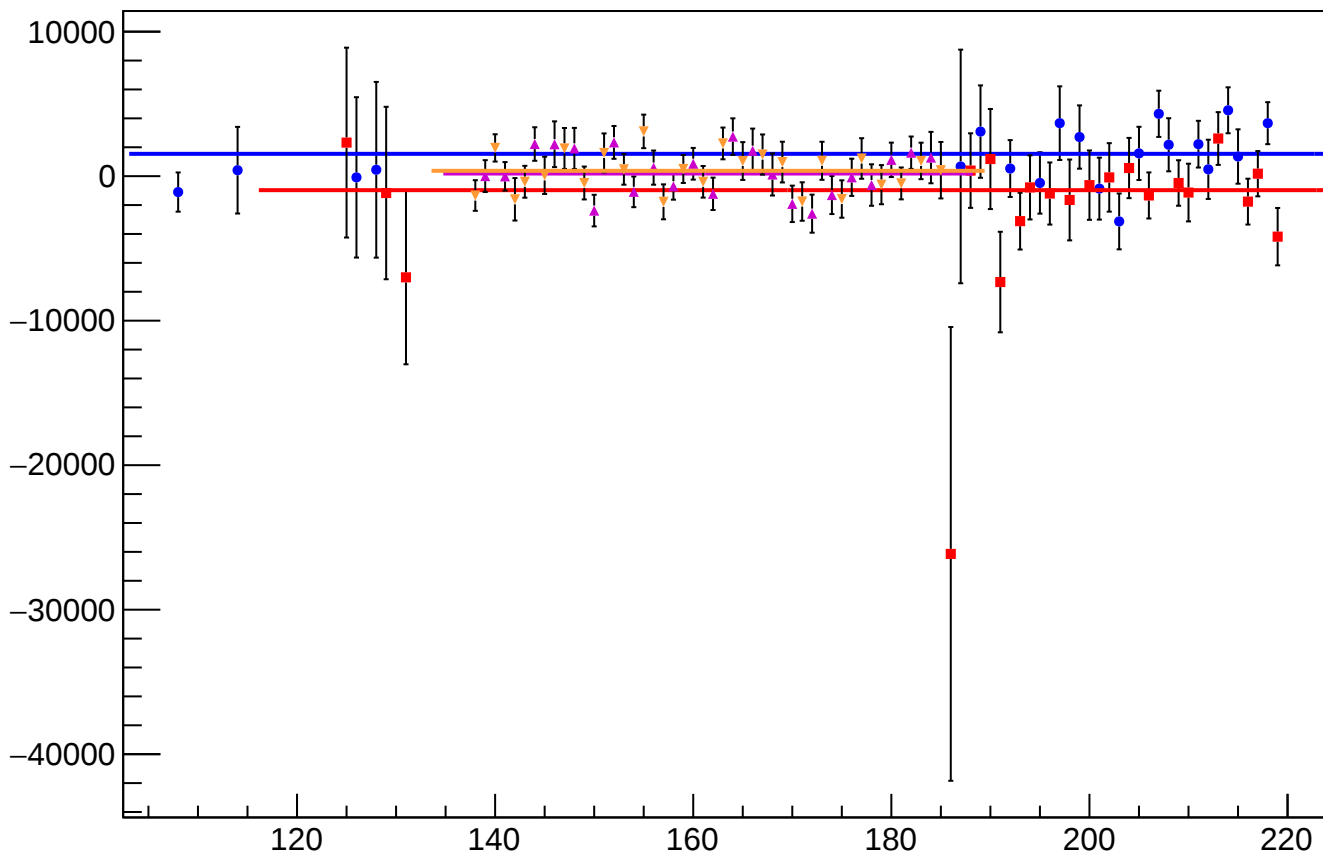
Right: 128.756 $\pm$ 0.016 χ^2 /NDF: 6712486.5/69

In: 143.169 $\pm$ 0.017 χ^2 /NDF:3680270.6/55

Out: 140.348 $\pm$ 0.017 χ^2 /NDF:5228588.8/61

All: 141.698 $\pm$ 0.012 χ^2 /NDF: 8922495.1/117

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 1544.987 $\pm$ 451.277 χ^2 /NDF: 22.9/19

Left Out: 370.001 $\pm$ 243.521 χ^2 /NDF:30.5/24

Right Out: -969.380 $\pm$ 488.274 χ^2 /NDF: 17.2/20

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

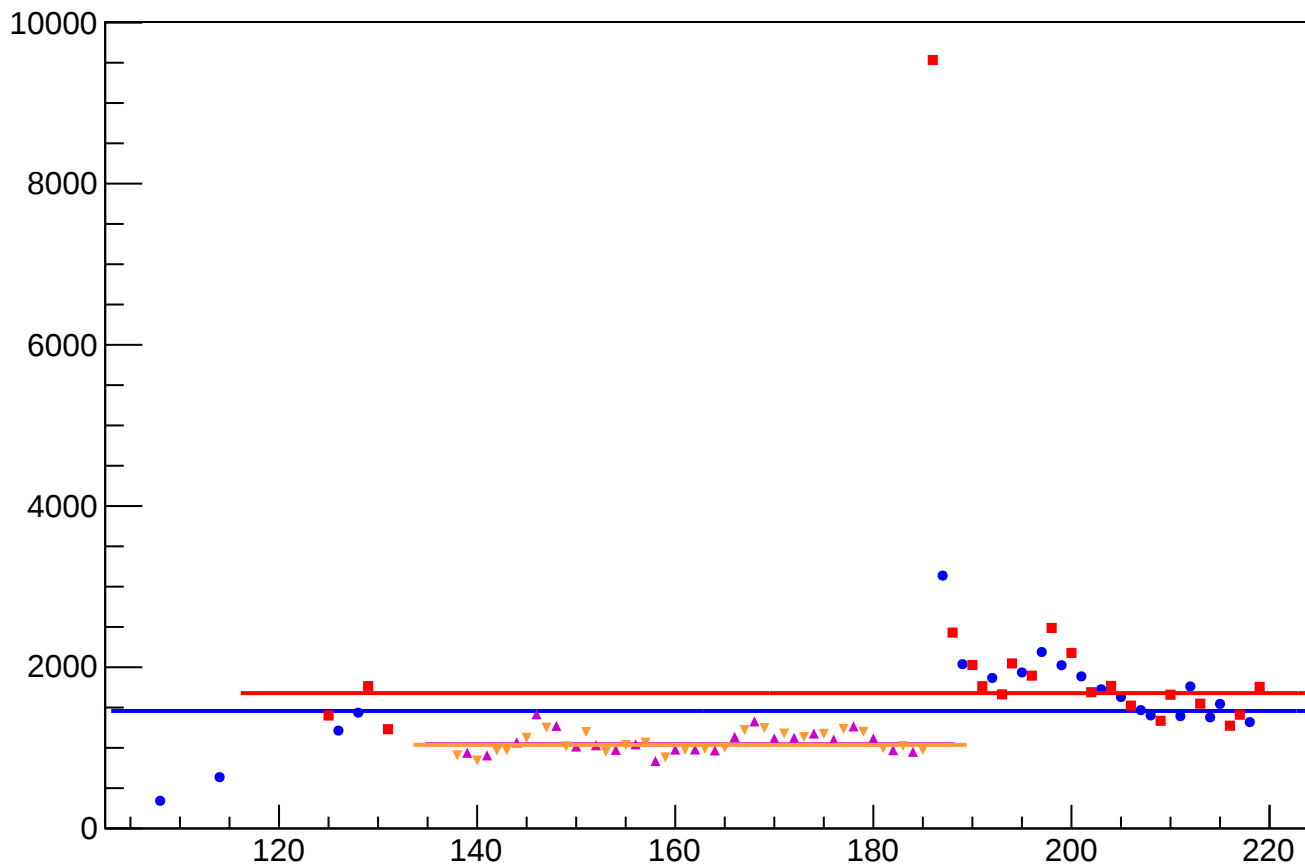
Right: 386.660 $\pm$ 331.410 χ^2 /NDF: 54.4/40

In: 507.338 $\pm$ 220.192 χ^2 /NDF:66.3/42

Out: 103.207 $\pm$ 217.921 χ^2 /NDF:53.7/45

All: 303.178 $\pm$ 154.890 χ^2 /NDF: 121.7/88

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 1457.554+/-0.319 χ^2/NDF : 2356514.8/19

Left Out: 1037.689+/-0.172 χ^2/NDF : 494981.4/24

Right Out: 1679.216+/-0.345 χ^2/NDF : 1355470.1/20

Left In: 1044.746+/-0.178 χ^2/NDF : 543315.5/22

Left: 1041.093+/-0.124 χ^2/NDF : 1039107.0/47

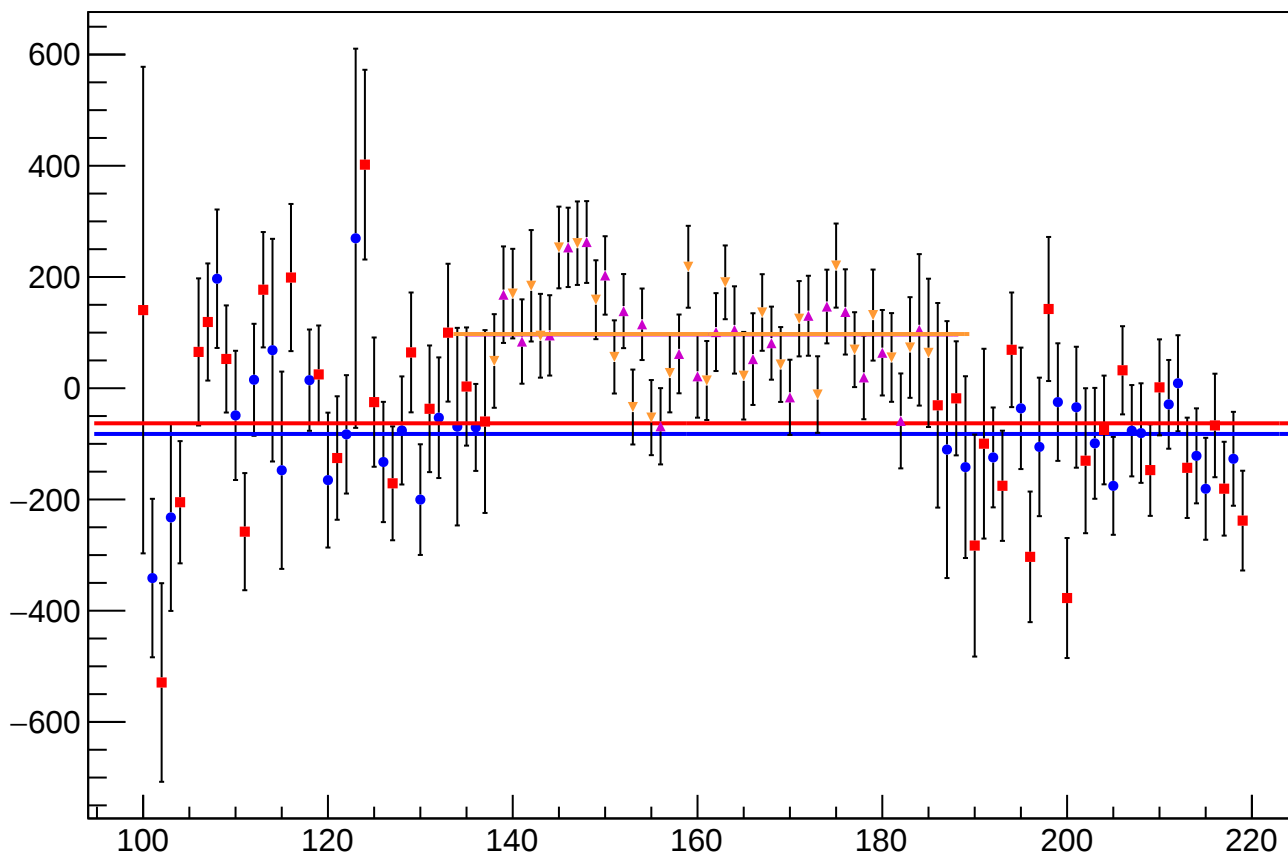
Right: 1559.670+/-0.234 χ^2/NDF : 3934280.5/40

In: 1143.025+/-0.156 χ^2/NDF : 4174951.9/42

Out: 1165.476+/-0.154 χ^2/NDF : 4615232.8/45

All: 1154.367+/-0.110 χ^2/NDF : 8800688.5/88

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -82.197 ± 18.474 χ^2/NDF : 20.7/32

Left Out: 97.445 ± 14.880 χ^2/NDF : 36.0/24

Right Out: -63.055 ± 17.993 χ^2/NDF : 69.8/36

Left In: 96.704 ± 15.369 χ^2/NDF : 29.2/22

Left: 97.087 ± 10.690 χ^2/NDF : 65.2/47

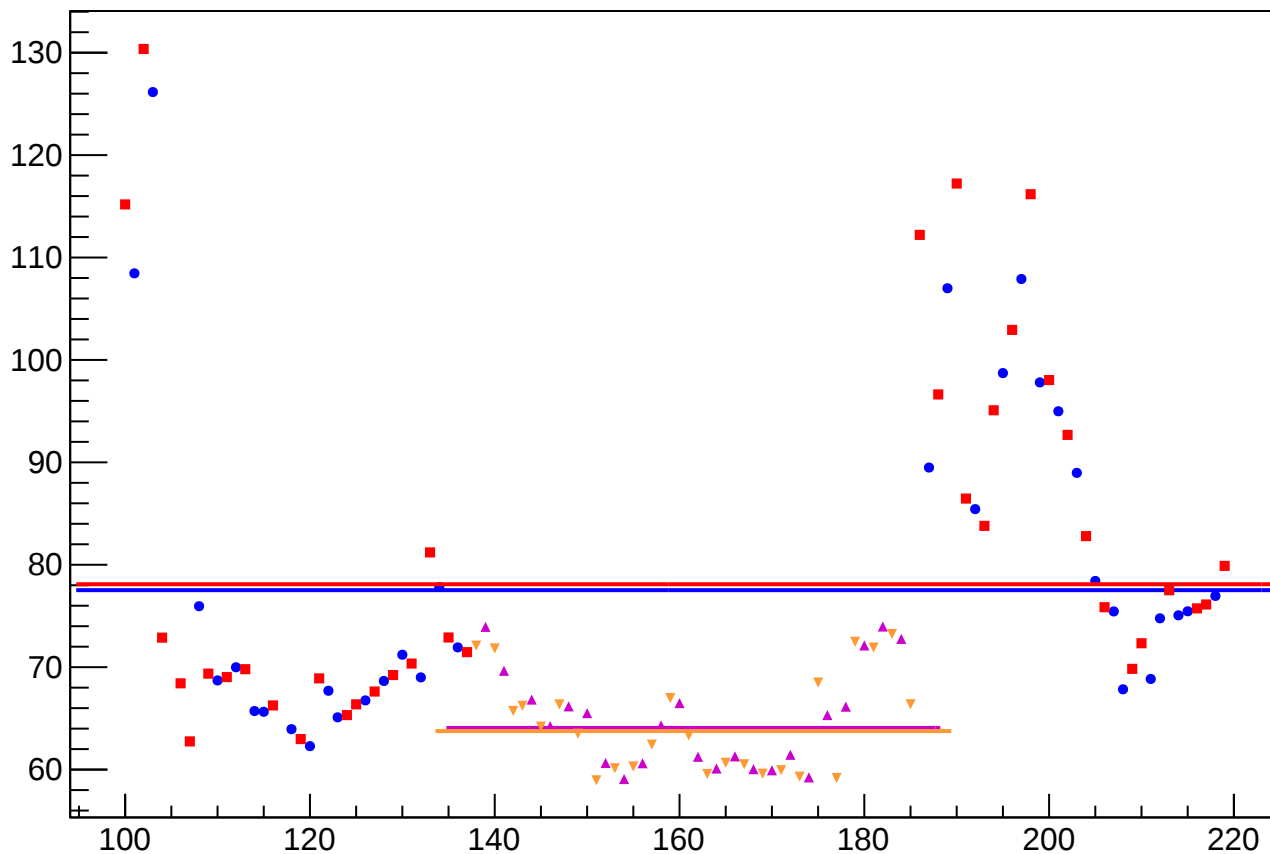
Right: -72.373 ± 12.889 χ^2/NDF : 91.0/69

In: 23.528 ± 11.815 χ^2/NDF : 105.3/55

Out: 32.259 ± 11.467 χ^2/NDF : 153.0/61

All: 28.024 ± 8.229 χ^2/NDF : 258.6/117

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 77.521 $\pm$ 0.013 χ^2 /NDF: 948617.1/32

Left Out: 63.761 $\pm$ 0.011 χ^2 /NDF: 192803.8/24

Right Out: 78.097 $\pm$ 0.013 χ^2 /NDF: 1132015.8/36

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

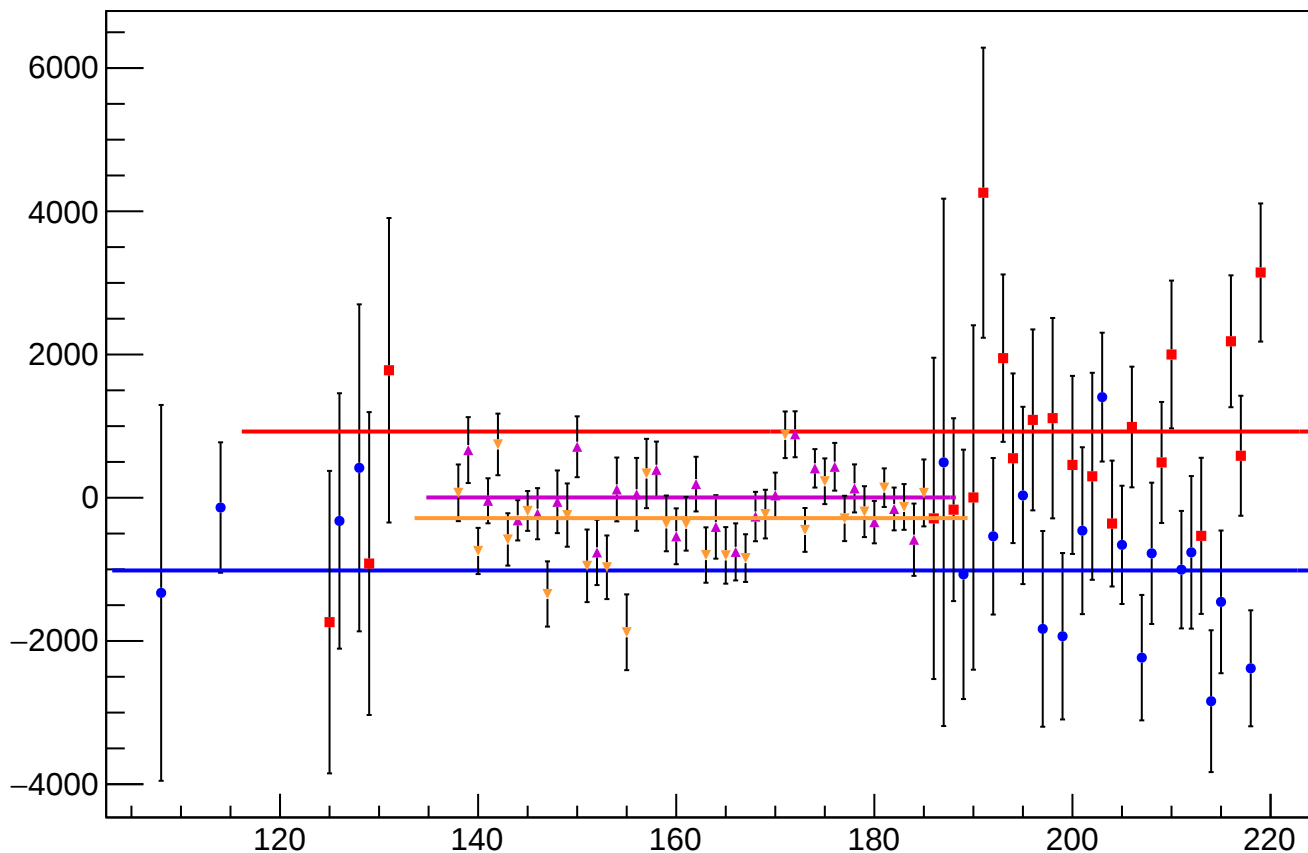
Right: 77.816 $\pm$ 0.009 χ^2 /NDF: 2081629.9/69

In: 69.571 $\pm$ 0.008 χ^2 /NDF: 1739984.1/55

Out: 69.583 $\pm$ 0.008 χ^2 /NDF: 2078773.1/61

All: 69.577 $\pm$ 0.006 χ^2 /NDF: 3818758.3/117

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: -1015.456 ± 244.577 $\chi^2/\text{NDF}: 19.7/19$

Left Out: -284.304 ± 72.732 $\chi^2/\text{NDF}: 55.1/24$

Right Out: 924.648 ± 256.758 $\chi^2/\text{NDF}: 20.2/20$

Left In: 4.037 ± 75.084 $\chi^2/\text{NDF}: 32.4/22$

Left: -144.720 ± 52.241 $\chi^2/\text{NDF}: 95.0/47$

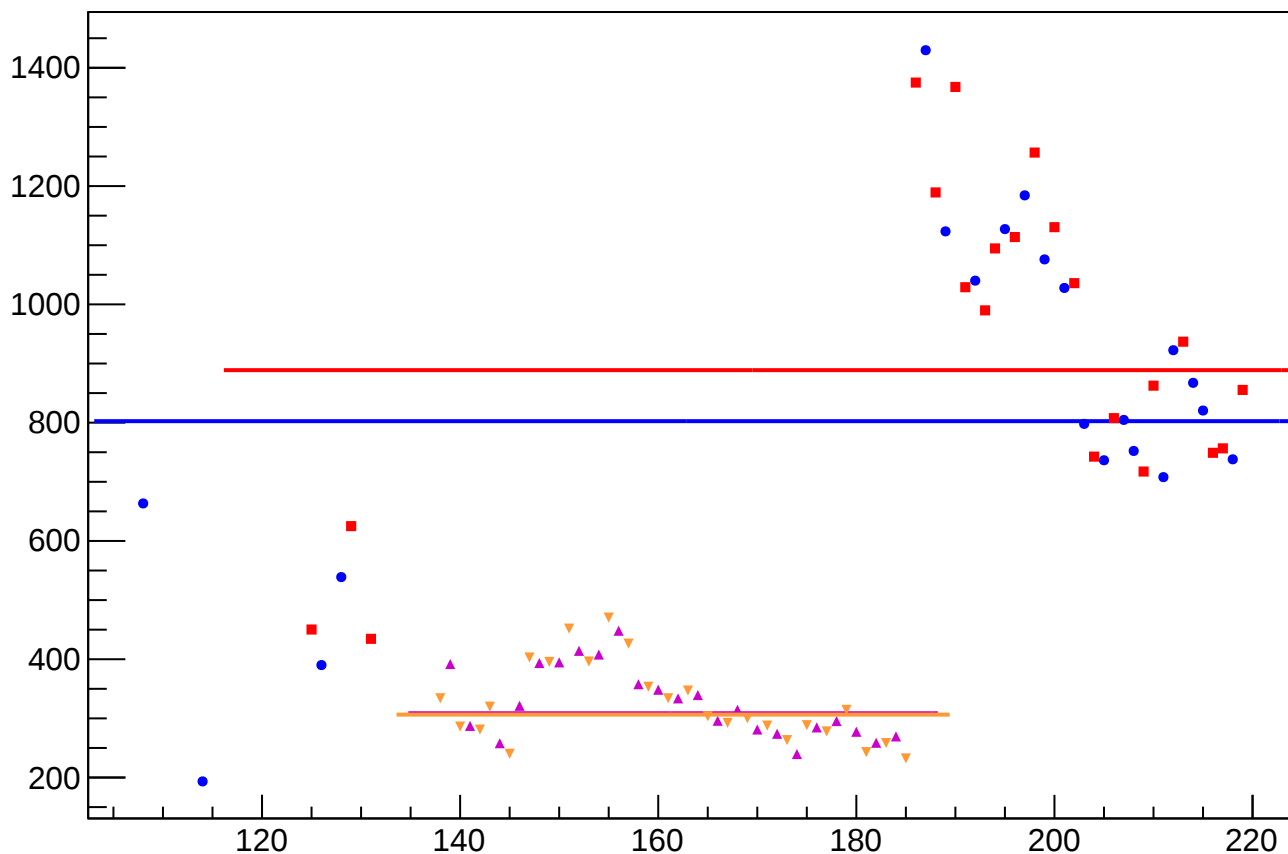
Right: -92.515 ± 177.092 $\chi^2/\text{NDF}: 69.9/40$

In: -83.772 ± 71.778 $\chi^2/\text{NDF}: 67.9/42$

Out: -194.499 ± 69.979 $\chi^2/\text{NDF}: 95.8/45$

All: -140.541 ± 50.107 $\chi^2/\text{NDF}: 165.0/88$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 802.532+/-0.173 χ^2/NDF : 1826116.4/19

Left Out: 306.363+/-0.051 χ^2/NDF : 1215669.9/24

Right Out: 888.774+/-0.182 χ^2/NDF : 1135476.4/20

Left In: 308.727+/-0.053 χ^2/NDF : 1002947.4/22

Left: 307.507+/-0.037 χ^2/NDF : 2219640.0/47

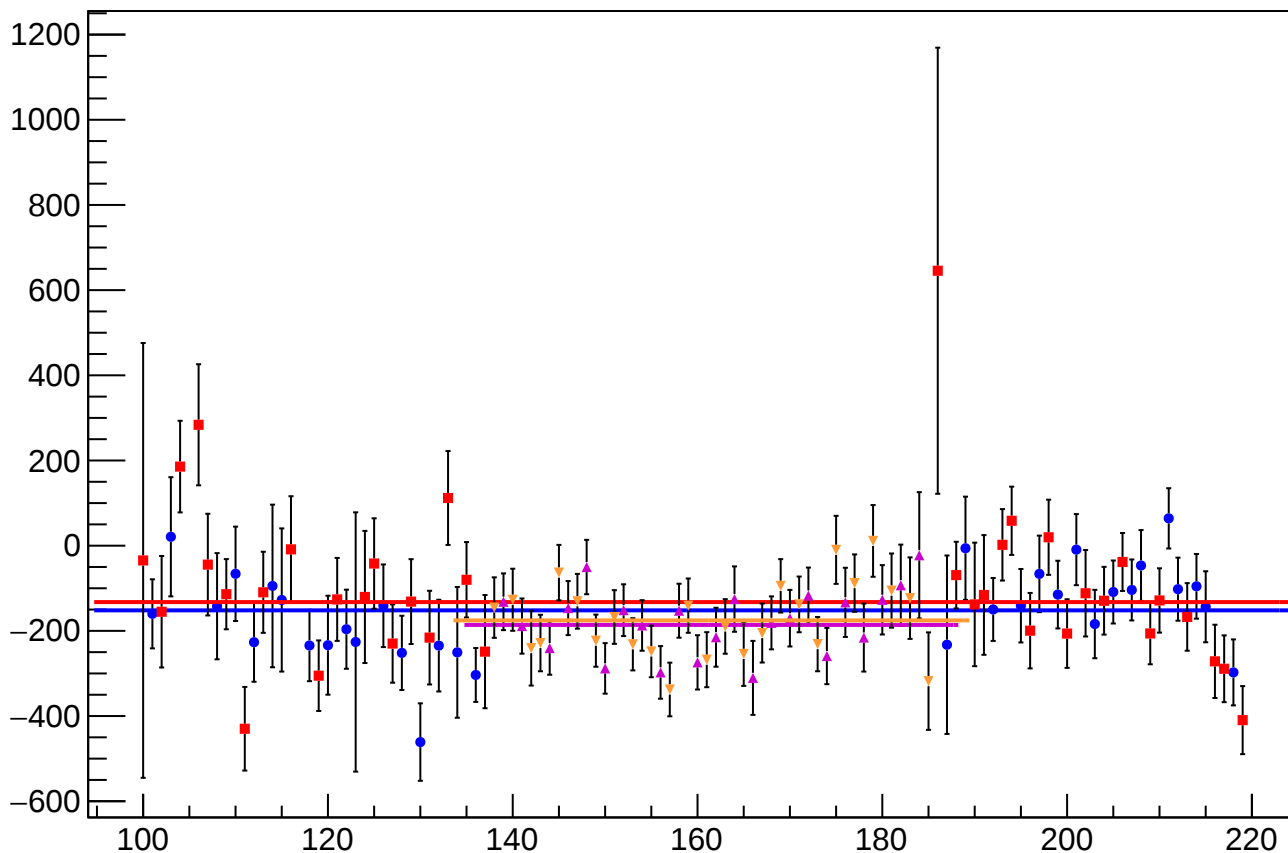
Right: 843.559+/-0.125 χ^2/NDF : 3079895.2/40

In: 351.258+/-0.051 χ^2/NDF : 10279729.6/42

Out: 349.626+/-0.049 χ^2/NDF : 11877388.1/45

All: 350.421+/-0.035 χ^2/NDF : 22157647.7/88

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -151.858 ± 15.840 $\chi^2/\text{NDF}: 46.4/32$

Left Out: -175.471 ± 13.846 $\chi^2/\text{NDF}: 34.6/24$

Right Out: -132.439 ± 15.679 $\chi^2/\text{NDF}: 78.4/36$

Left In: -186.047 ± 14.315 $\chi^2/\text{NDF}: 23.6/22$

Left: -180.583 ± 9.952 $\chi^2/\text{NDF}: 58.5/47$

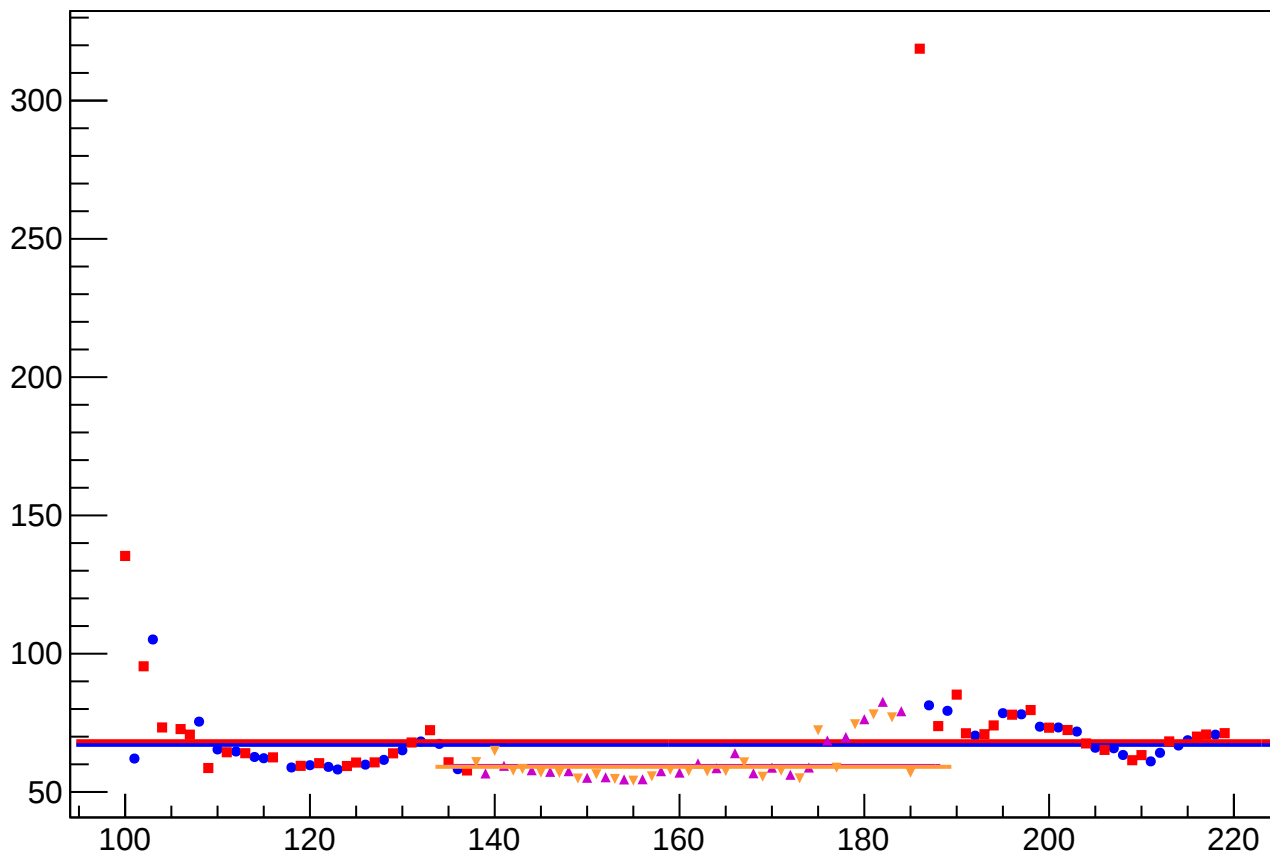
Right: -142.049 ± 11.143 $\chi^2/\text{NDF}: 125.5/69$

In: -170.676 ± 10.621 $\chi^2/\text{NDF}: 72.5/55$

Out: -156.617 ± 10.378 $\chi^2/\text{NDF}: 117.2/61$

All: -163.484 ± 7.423 $\chi^2/\text{NDF}: 190.6/117$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.046 $\pm$ 0.011 χ^2 /NDF: 430515.9/32

Left Out: 59.099 $\pm$ 0.010 χ^2 /NDF: 369788.6/24

Right Out: 68.360 $\pm$ 0.011 χ^2 /NDF: 878334.5/36

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

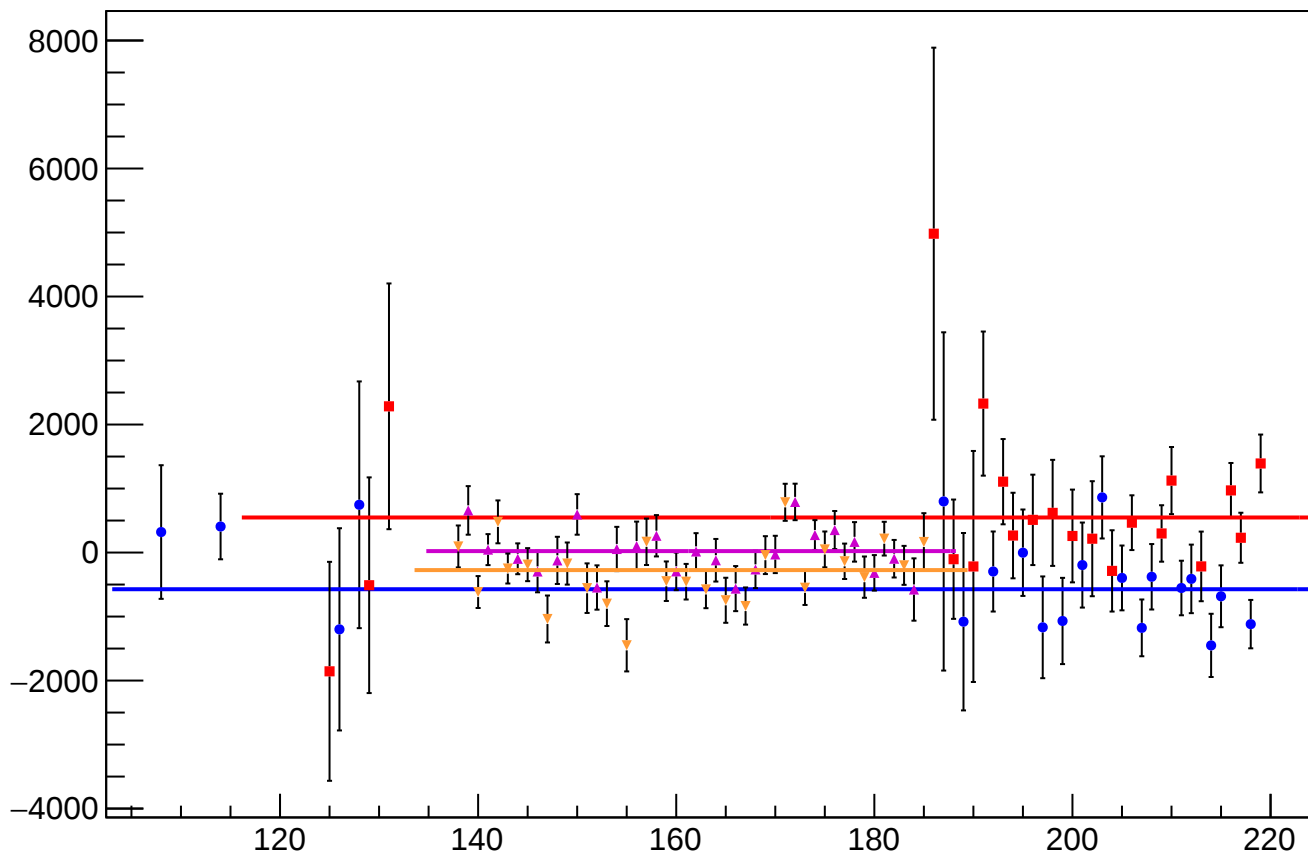
Right: 67.709 $\pm$ 0.008 χ^2 /NDF: 1315805.5/69

In: 62.843 $\pm$ 0.008 χ^2 /NDF: 1059354.0/55

Out: 63.157 $\pm$ 0.007 χ^2 /NDF: 1640116.3/61

All: 63.003 $\pm$ 0.005 χ^2 /NDF: 2700362.8/117

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: -573.040 $\pm$ 133.068 χ^2/NDF : 20.3/19

Left Out: -274.091 $\pm$ 60.799 χ^2/NDF : 53.9/24

Right Out: 547.830 $\pm$ 139.455 χ^2/NDF : 20.3/20

Left In: 22.631 $\pm$ 63.643 χ^2/NDF : 28.9/22

Left: -132.507 $\pm$ 43.963 χ^2/NDF : 94.2/47

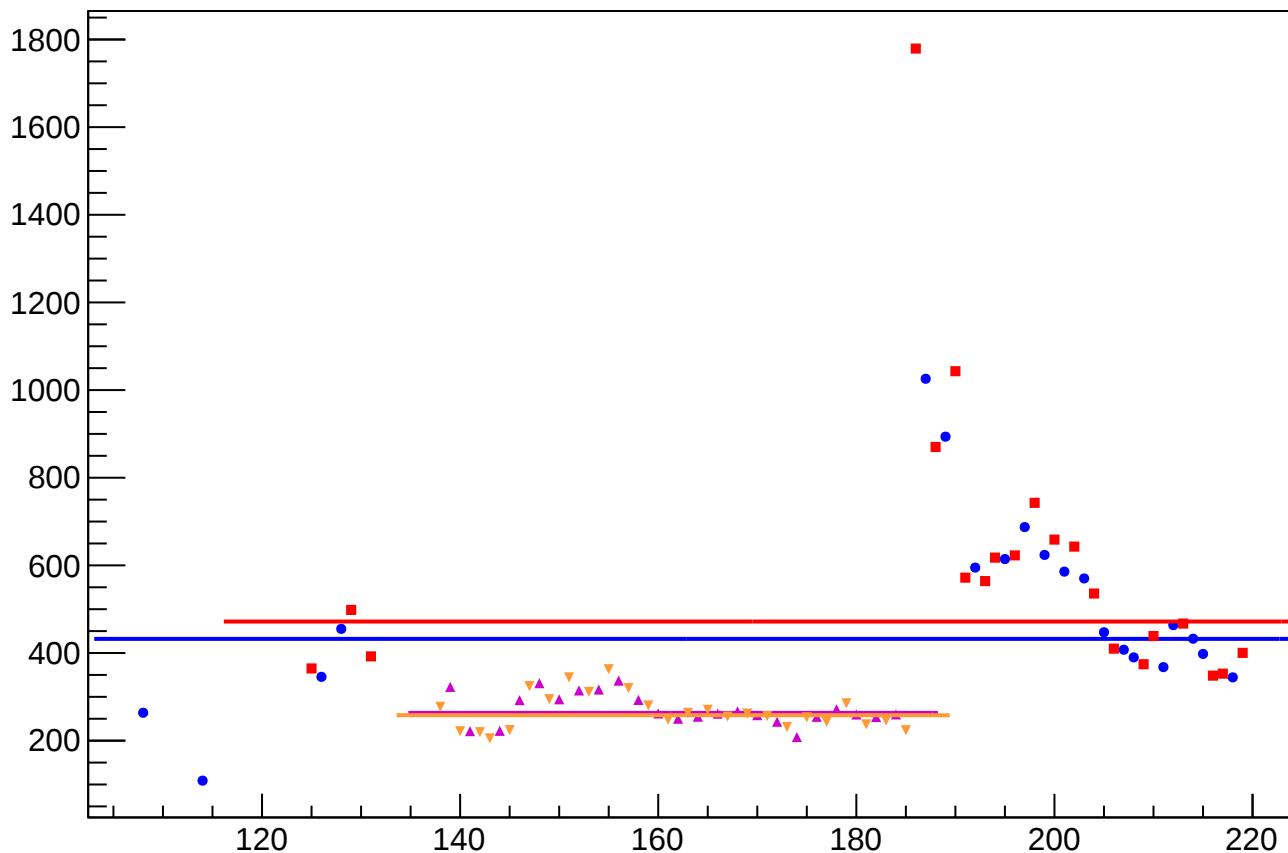
Right: -38.862 $\pm$ 96.272 χ^2/NDF : 74.3/40

In: -88.261 $\pm$ 57.414 χ^2/NDF : 65.5/42

Out: -142.816 $\pm$ 55.733 χ^2/NDF : 103.4/45

All: -116.349 $\pm$ 39.990 χ^2/NDF : 169.3/88

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 432.260 $\pm$ 0.094 χ^2 /NDF: 2218462.8/19

Left Out: 258.040 $\pm$ 0.043 χ^2 /NDF: 724823.3/24

Right Out: 471.871 $\pm$ 0.099 χ^2 /NDF: 2211284.5/20

Left In: 263.397 $\pm$ 0.045 χ^2 /NDF: 585600.2/22

Left: 260.596 $\pm$ 0.031 χ^2 /NDF: 1317830.8/47

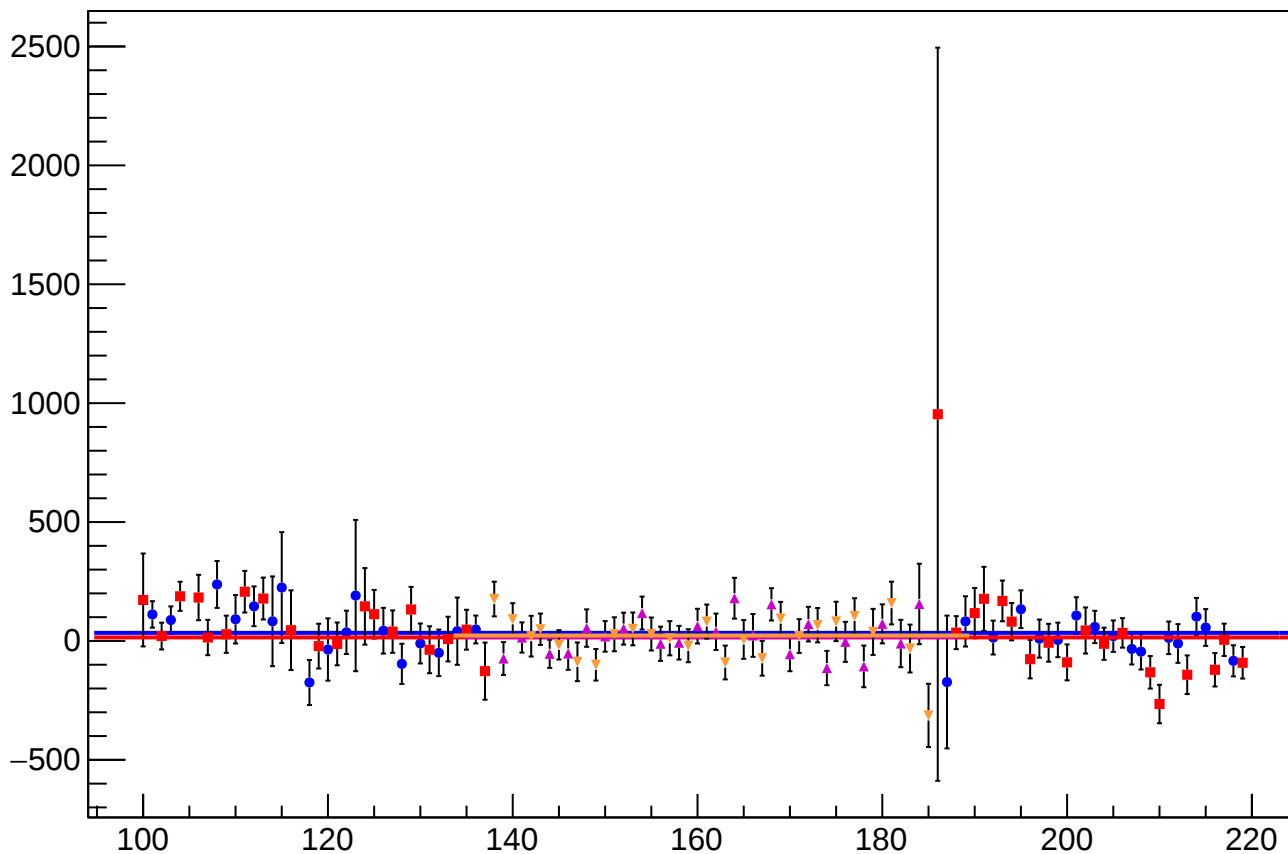
Right: 451.137 $\pm$ 0.068 χ^2 /NDF: 4514205.5/40

In: 294.833 $\pm$ 0.041 χ^2 /NDF: 5425208.3/42

Out: 292.193 $\pm$ 0.039 χ^2 /NDF: 6887266.5/45

All: 293.473 $\pm$ 0.028 χ^2 /NDF: 12314652.2/88

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 34.116+/-14.275 χ^2/NDF : 29.2/32

Left Out: 22.871+/-14.968 χ^2/NDF :29.0/24

Right Out: 14.870+/-13.764 χ^2/NDF : 62.3/36

Left In: 16.198+/-15.531 χ^2/NDF :23.3/22

Left: 19.658+/-10.777 χ^2/NDF : 52.4/47

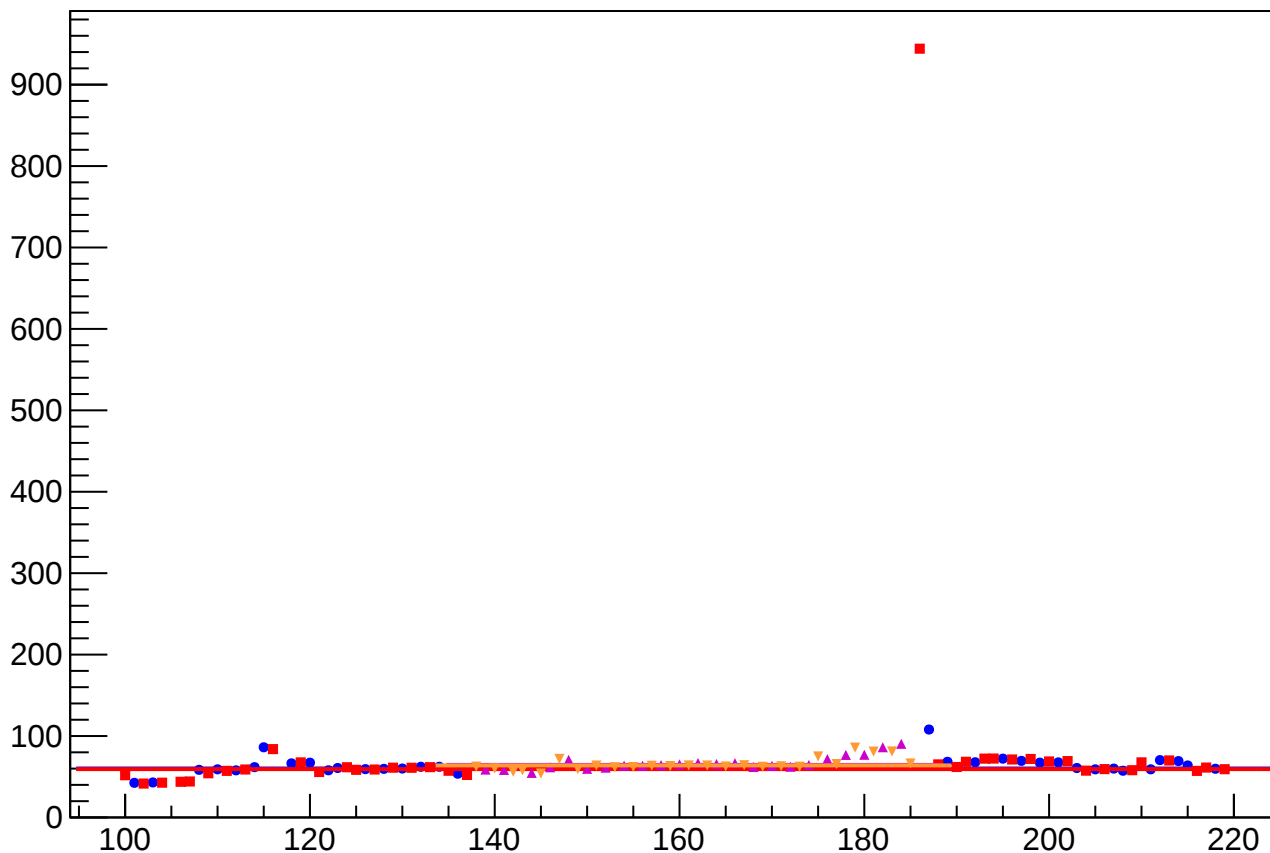
Right: 24.142+/-9.908 χ^2/NDF : 92.4/69

In: 25.911+/-10.510 χ^2/NDF :53.2/55

Out: 18.536+/-10.132 χ^2/NDF :91.5/61

All: 22.088+/-7.294 χ^2/NDF : 144.9/117

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 60.086 $\pm$ 0.010 χ^2 /NDF: 722825.1/32

Left Out: 63.920 $\pm$ 0.011 χ^2 /NDF: 395410.4/24

Right Out: 59.380 $\pm$ 0.010 χ^2 /NDF: 1556402.0/36

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

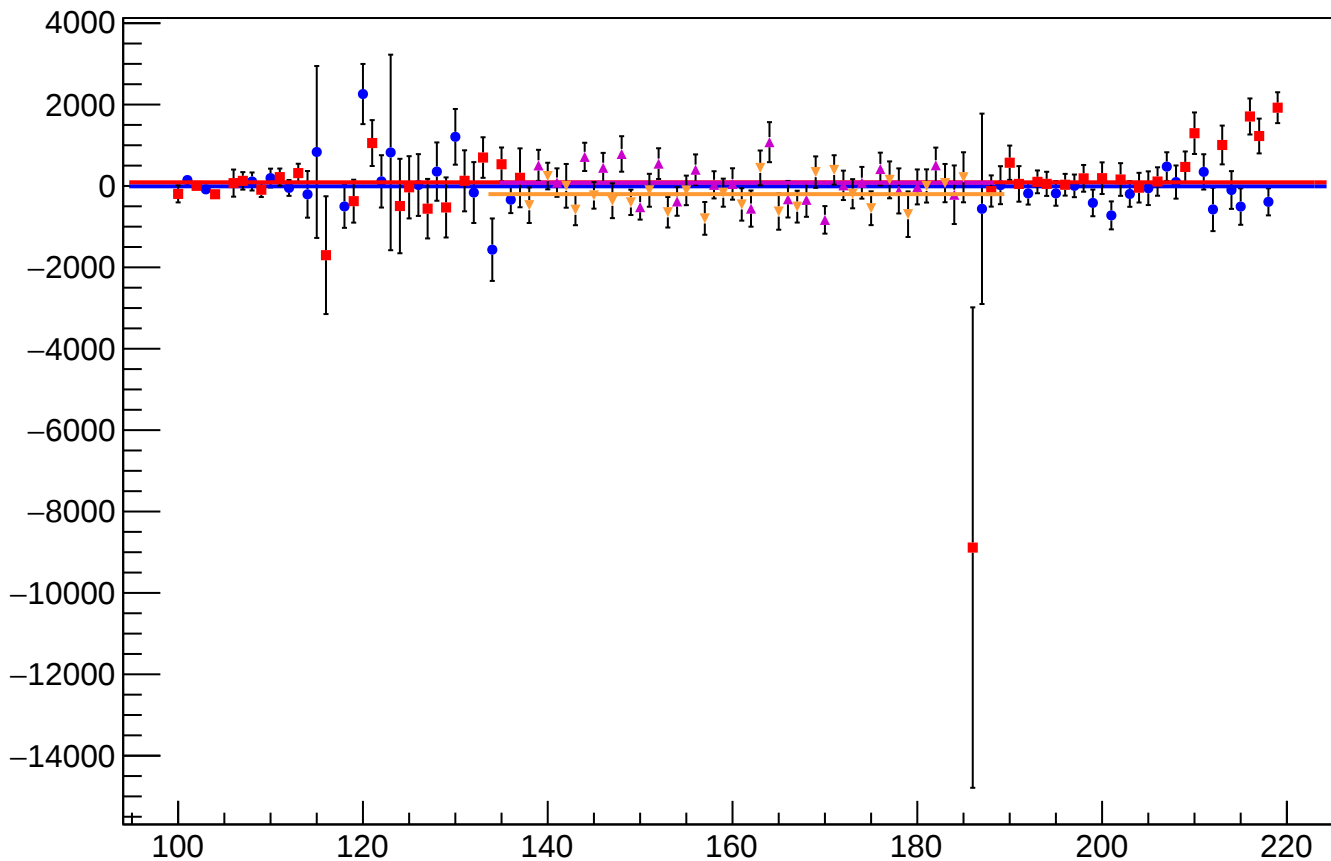
Right: 59.720 $\pm$ 0.007 χ^2 /NDF: 2281760.9/69

In: 62.112 $\pm$ 0.007 χ^2 /NDF: 1181339.1/55

Out: 61.460 $\pm$ 0.007 χ^2 /NDF: 2051497.0/61

All: 61.774 $\pm$ 0.005 χ^2 /NDF: 3236827.5/117

asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: -8.705 ± 45.029 χ^2/NDF : 38.0/32

Left Out: -201.082 ± 79.549 χ^2/NDF : 19.7/24

Right Out: 90.157 ± 45.717 χ^2/NDF : 81.6/36

Left In: 79.985 ± 81.781 χ^2/NDF : 33.4/22

Left: -64.438 ± 57.022 χ^2/NDF : 59.1/47

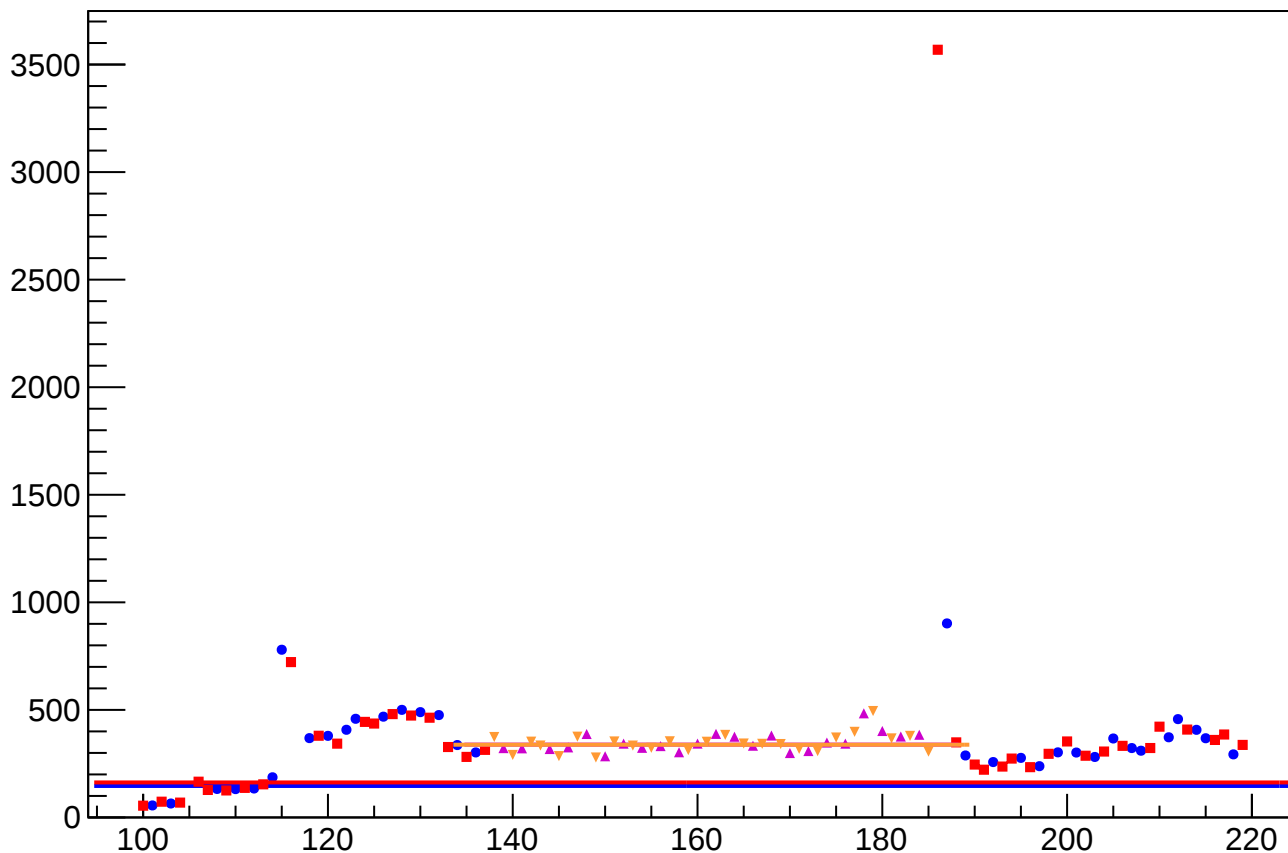
Right: 39.977 ± 32.081 χ^2/NDF : 122.0/69

In: 11.927 ± 39.445 χ^2/NDF : 72.3/55

Out: 17.848 ± 39.637 χ^2/NDF : 111.3/61

All: 14.873 ± 27.960 χ^2/NDF : 183.6/117

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 146.408+/-0.032 χ^2/NDF : 14307841.9/32

Left Out: 338.130+/-0.056 χ^2/NDF : 498601.7/24

Right Out: 162.772+/-0.032 χ^2/NDF : 13155676.8/36

Left In: 338.564+/-0.058 χ^2/NDF : 437243.0/22

Left: 338.341+/-0.040 χ^2/NDF : 935873.7/47

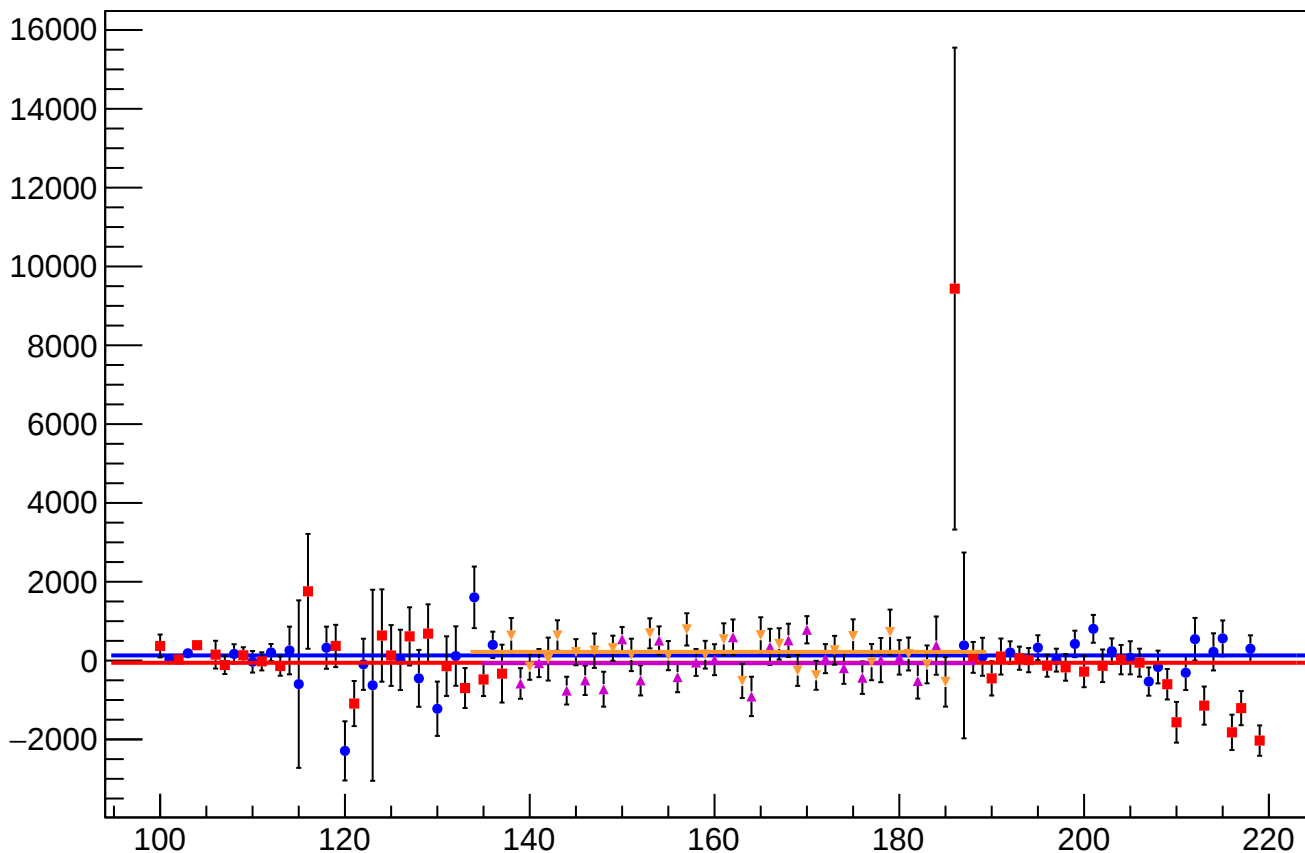
Right: 154.466+/-0.023 χ^2/NDF : 27593584.4/69

In: 191.111+/-0.028 χ^2/NDF : 23217976.0/55

Out: 206.310+/-0.028 χ^2/NDF : 20960083.0/61

All: 198.674+/-0.020 χ^2/NDF : 44325814.8/11

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 130.967 $\pm$ 52.592 χ^2 /NDF: 33.1/32

Left Out: 221.083 $\pm$ 81.018 χ^2 /NDF:19.7/24

Right Out: -55.581 $\pm$ 50.687 χ^2 /NDF: 96.9/36

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

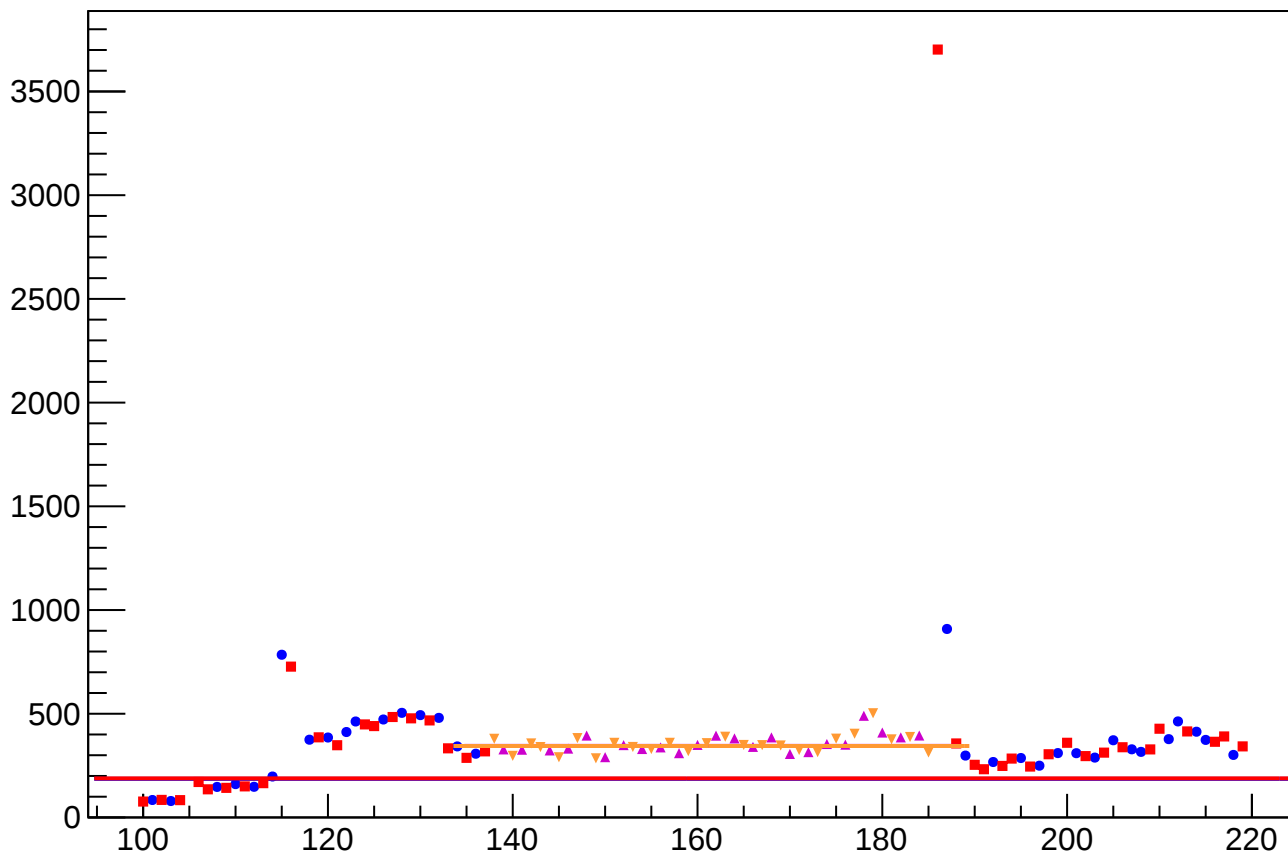
Right: 34.254 $\pm$ 36.496 χ^2 /NDF: 136.5/69

In: 74.988 $\pm$ 44.473 χ^2 /NDF:71.0/55

Out: 22.246 $\pm$ 42.971 χ^2 /NDF:125.0/61

All: 47.711 $\pm$ 30.902 χ^2 /NDF: 196.7/117

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 186.203+/-0.037 χ^2/NDF : 10696199.3/32

Left Out: 344.506+/-0.057 χ^2/NDF :488323.4/24

Right Out: 188.315+/-0.036 χ^2/NDF : 10953564.8/36

Left In: 345.039+/-0.059 χ^2/NDF :427381.3/22

Left: 344.765+/-0.041 χ^2/NDF : 915746.8/47

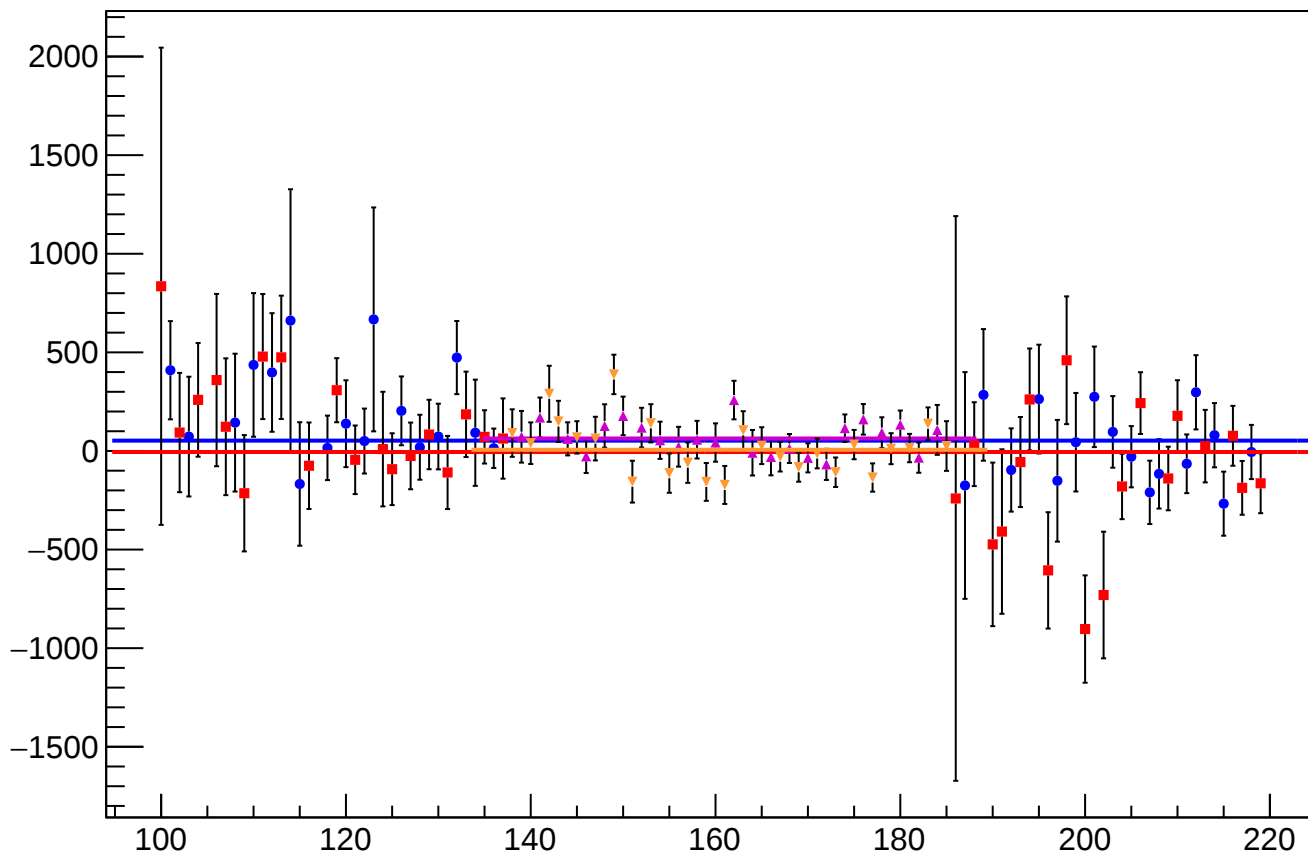
Right: 187.298+/-0.026 χ^2/NDF : 21651435.8/69

In: 231.457+/-0.031 χ^2/NDF :16321171.7/55

Out: 232.252+/-0.030 χ^2/NDF :16784087.1/61

All: 231.868+/-0.022 χ^2/NDF : 33105589.0/11

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 52.385 $\pm$ 34.354 χ^2 /NDF: 26.6/32

Left Out: 6.020 $\pm$ 17.910 χ^2 /NDF:46.0/24

Right Out: -5.298 $\pm$ 34.752 χ^2 /NDF: 47.4/36

Left In: 63.279 $\pm$ 18.447 χ^2 /NDF:19.8/22

Left: 33.804 $\pm$ 12.850 χ^2 /NDF: 70.8/47

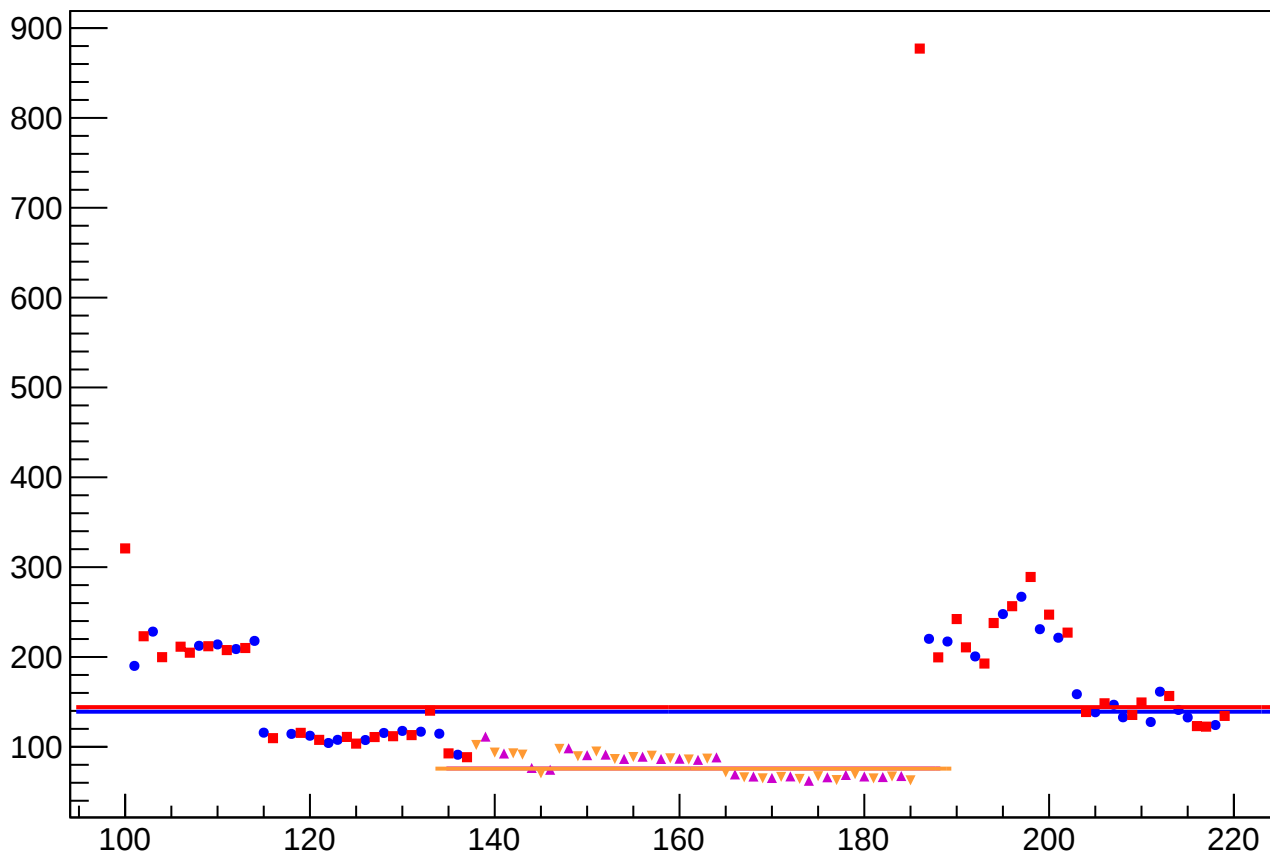
Right: 23.876 $\pm$ 24.432 χ^2 /NDF: 75.5/69

In: 60.841 $\pm$ 16.252 χ^2 /NDF:46.5/55

Out: 3.645 $\pm$ 15.920 χ^2 /NDF:93.5/61

All: 31.653 $\pm$ 11.373 χ^2 /NDF: 146.4/117

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 139.110 $\pm$ 0.024 χ^2 /NDF: 2939937.9/32

Left Out: 75.743 $\pm$ 0.013 χ^2 /NDF:937821.8/24

Right Out: 144.191 $\pm$ 0.025 χ^2 /NDF: 4006391.1/36

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

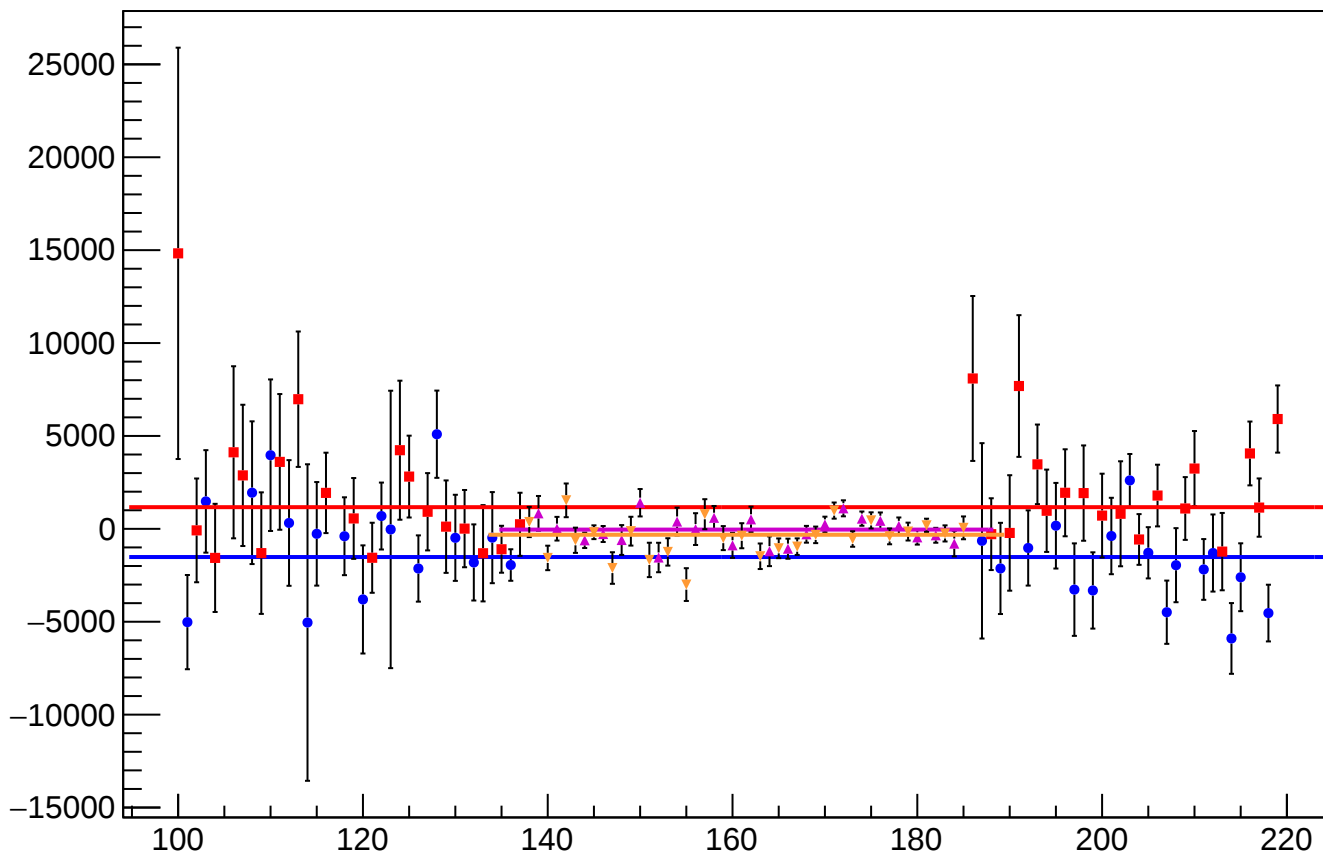
Right: 141.622 $\pm$ 0.017 χ^2 /NDF: 6967952.2/69

In: 90.053 $\pm$ 0.011 χ^2 /NDF:9025340.6/55

Out: 90.107 $\pm$ 0.011 χ^2 /NDF:11074816.4/61

All: 90.081 $\pm$ 0.008 χ^2 /NDF: 20100168.3/117

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -1517.230+/-347.273 χ^2/NDF : 41.0/32

Left Out: -318.064+/-108.014 χ^2/NDF : 50.0/24

Right Out: 1166.496+/-360.600 χ^2/NDF : 36.6/36

Left In: -40.473+/-110.252 χ^2/NDF : 34.7/22

Left: -182.115+/-77.156 χ^2/NDF : 88.0/47

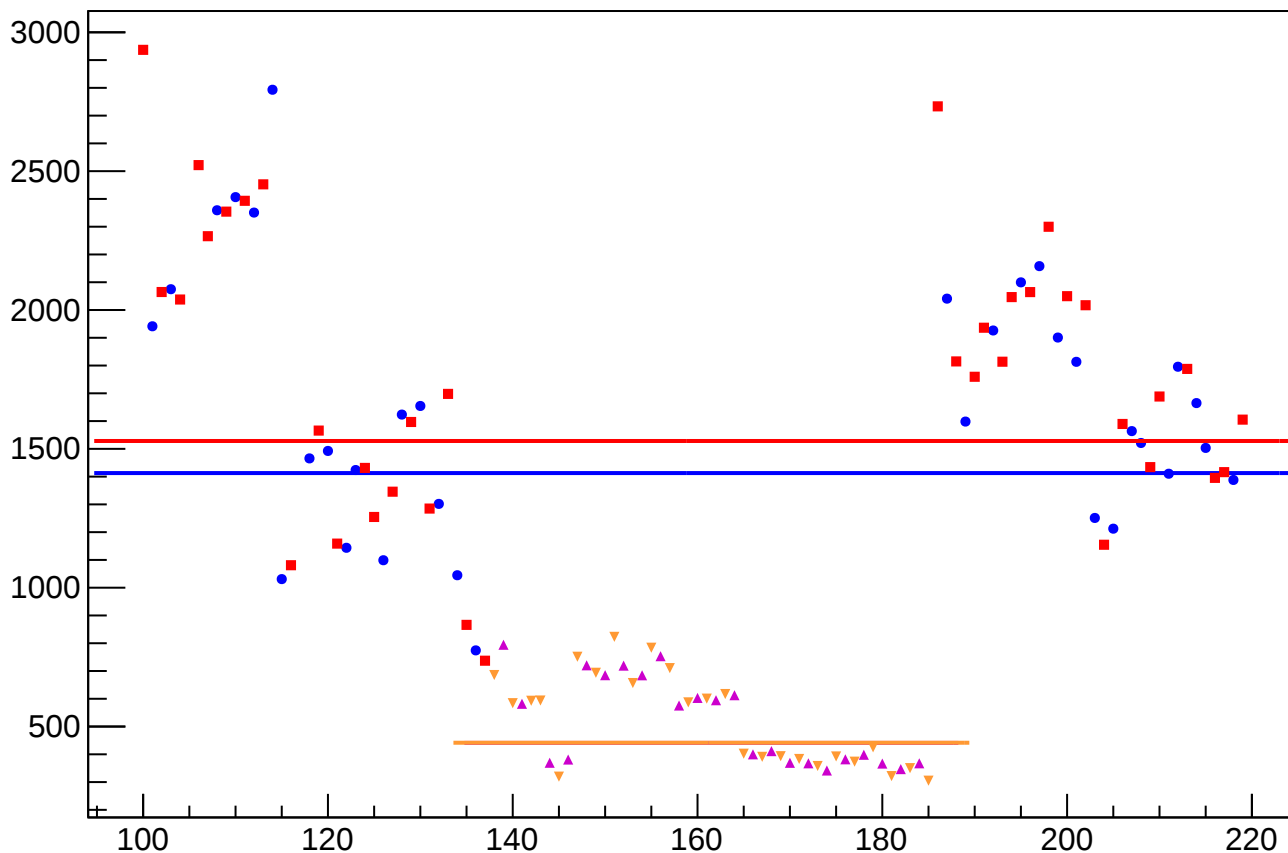
Right: -225.874+/-250.138 χ^2/NDF : 106.4/69

In: -175.691+/-105.084 χ^2/NDF : 92.2/55

Out: -195.831+/-103.471 χ^2/NDF : 102.2/61

All: -185.917+/-73.729 χ^2/NDF : 194.4/117

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1412.800+/-0.246 χ^2/NDF : 2930670.9/32

Left Out: 441.685+/-0.076 χ^2/NDF : 3169140.9/24

Right Out: 1528.315+/-0.255 χ^2/NDF : 2986445.0/36

Left In: 441.009+/-0.078 χ^2/NDF : 2597018.1/22

Left: 441.354+/-0.055 χ^2/NDF : 5766197.3/47

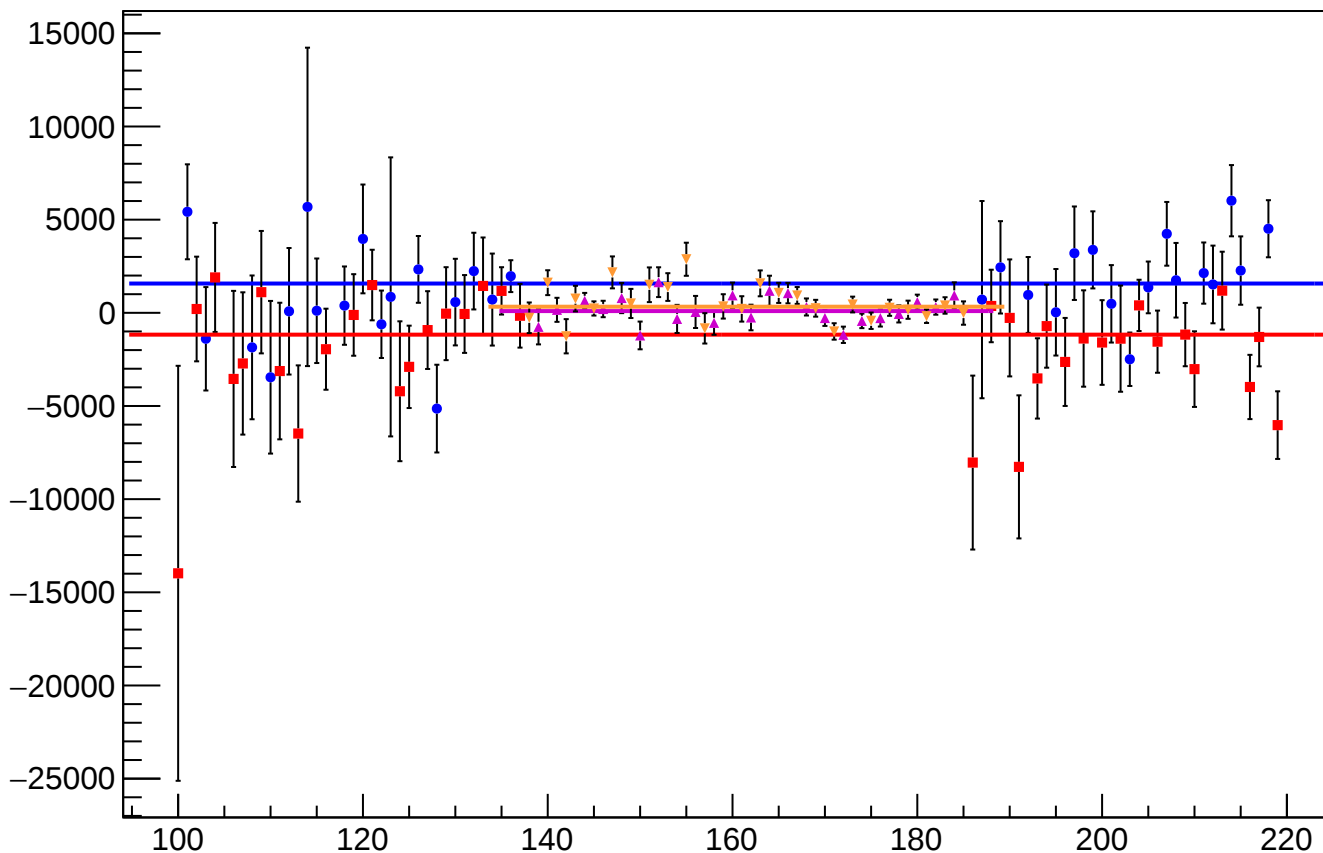
Right: 1468.384+/-0.177 χ^2/NDF : 6023598.1/69

In: 529.990+/-0.074 χ^2/NDF : 19755163.3/55

Out: 531.153+/-0.073 χ^2/NDF : 22821429.0/61

All: 530.581+/-0.052 χ^2/NDF : 42576716.6/122

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1572.042 $\pm$ 349.343 χ^2 /NDF: 39.8/32

Left Out: 328.599 $\pm$ 109.668 χ^2 /NDF:47.7/24

Right Out: -1171.440 $\pm$ 362.713 χ^2 /NDF: 36.1/36

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

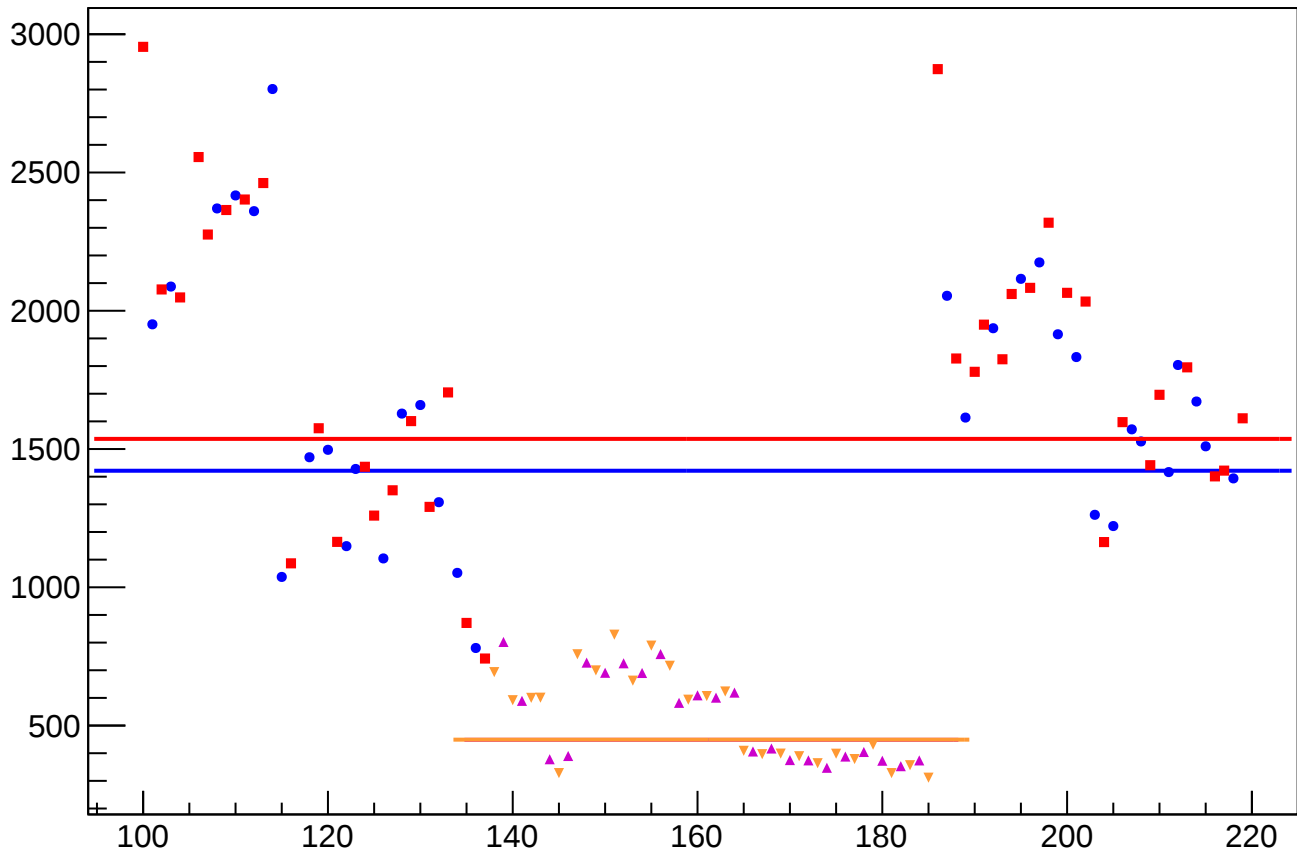
Right: 251.795 $\pm$ 251.617 χ^2 /NDF: 105.5/69

In: 231.046 $\pm$ 106.618 χ^2 /NDF:89.4/55

Out: 202.953 $\pm$ 104.975 χ^2 /NDF:99.5/61

All: 216.782 $\pm$ 74.803 χ^2 /NDF: 188.9/117

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1421.494 $\pm$ 0.247 χ^2/NDF : 2919211.9/32

Left Out: 449.016 $\pm$ 0.078 χ^2/NDF : 3090476.2/24

Right Out: 1536.690 $\pm$ 0.256 χ^2/NDF : 3006118.4/36

Left In: 448.307 $\pm$ 0.079 χ^2/NDF : 2537376.0/22

Left: 448.669 $\pm$ 0.055 χ^2/NDF : 5627893.2/47

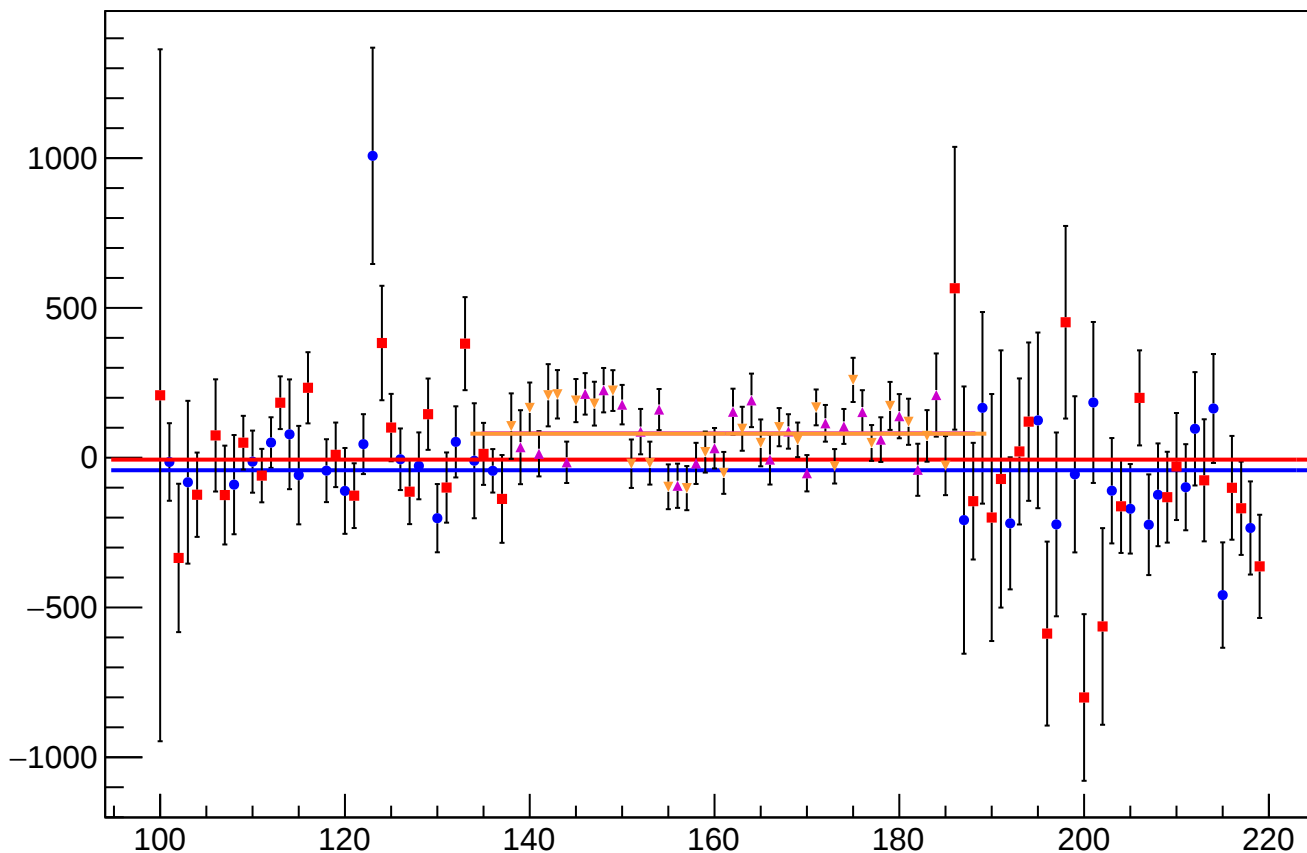
Right: 1476.930 $\pm$ 0.178 χ^2/NDF : 6029983.5/69

In: 538.954 $\pm$ 0.075 χ^2/NDF : 19531852.7/55

Out: 540.122 $\pm$ 0.074 χ^2/NDF : 22574812.0/61

All: 539.547 $\pm$ 0.053 χ^2/NDF : 42106786.5/11

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -41.915 ± 24.924 χ^2/NDF : 28.1/32

Left Out: 80.171 ± 14.592 χ^2/NDF : 48.6/24

Right Out: -6.436 ± 24.434 χ^2/NDF : 57.5/36

Left In: 81.156 ± 15.105 χ^2/NDF : 35.3/22

Left: 80.646 ± 10.495 χ^2/NDF : 83.8/47

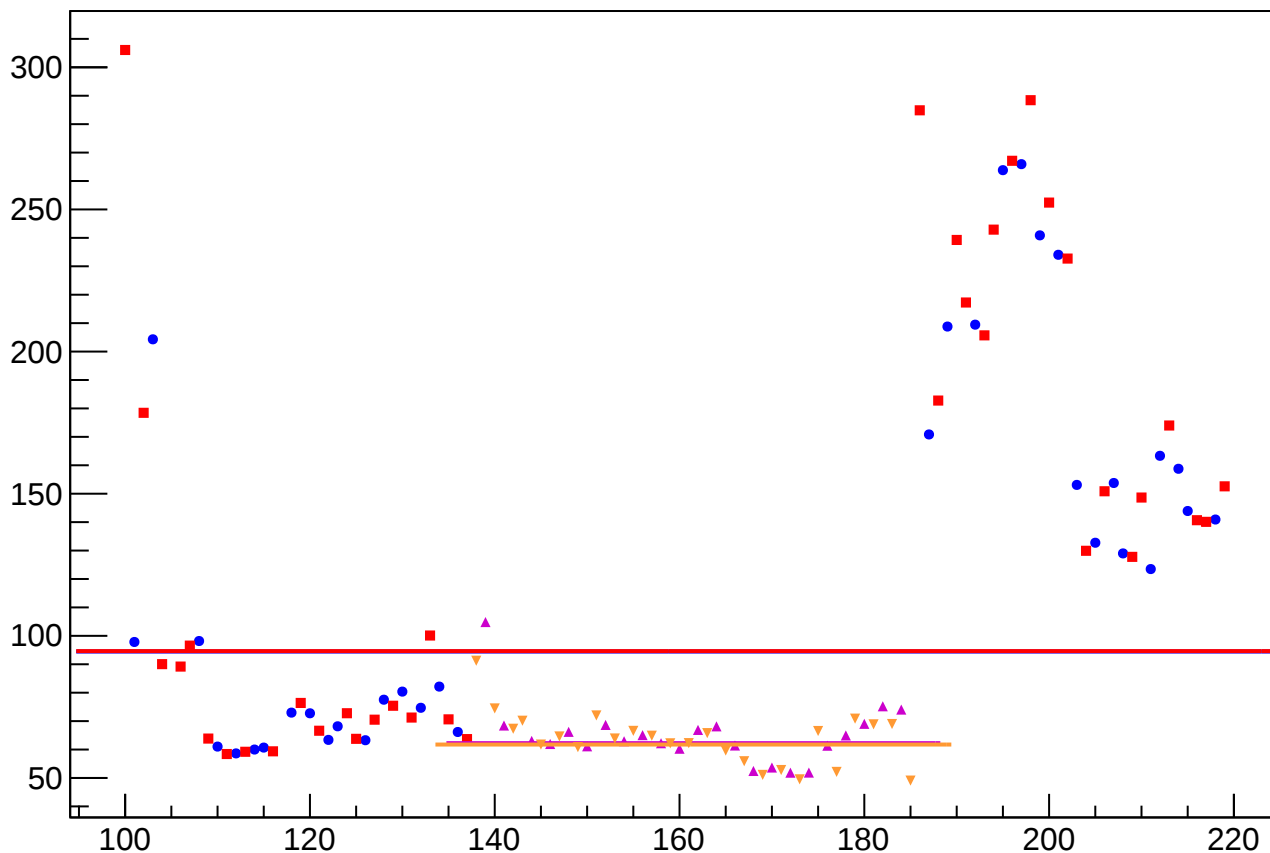
Right: -23.823 ± 17.448 χ^2/NDF : 86.7/69

In: 48.095 ± 12.918 χ^2/NDF : 81.2/55

Out: 57.402 ± 12.528 χ^2/NDF : 115.3/61

All: 52.891 ± 8.993 χ^2/NDF : 196.8/117

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 94.478 $\pm$ 0.018 χ^2 /NDF: 6952301.3/32

Left Out: 61.761 $\pm$ 0.010 χ^2 /NDF: 645535.0/24

Right Out: 94.629 $\pm$ 0.017 χ^2 /NDF: 8182273.6/36

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

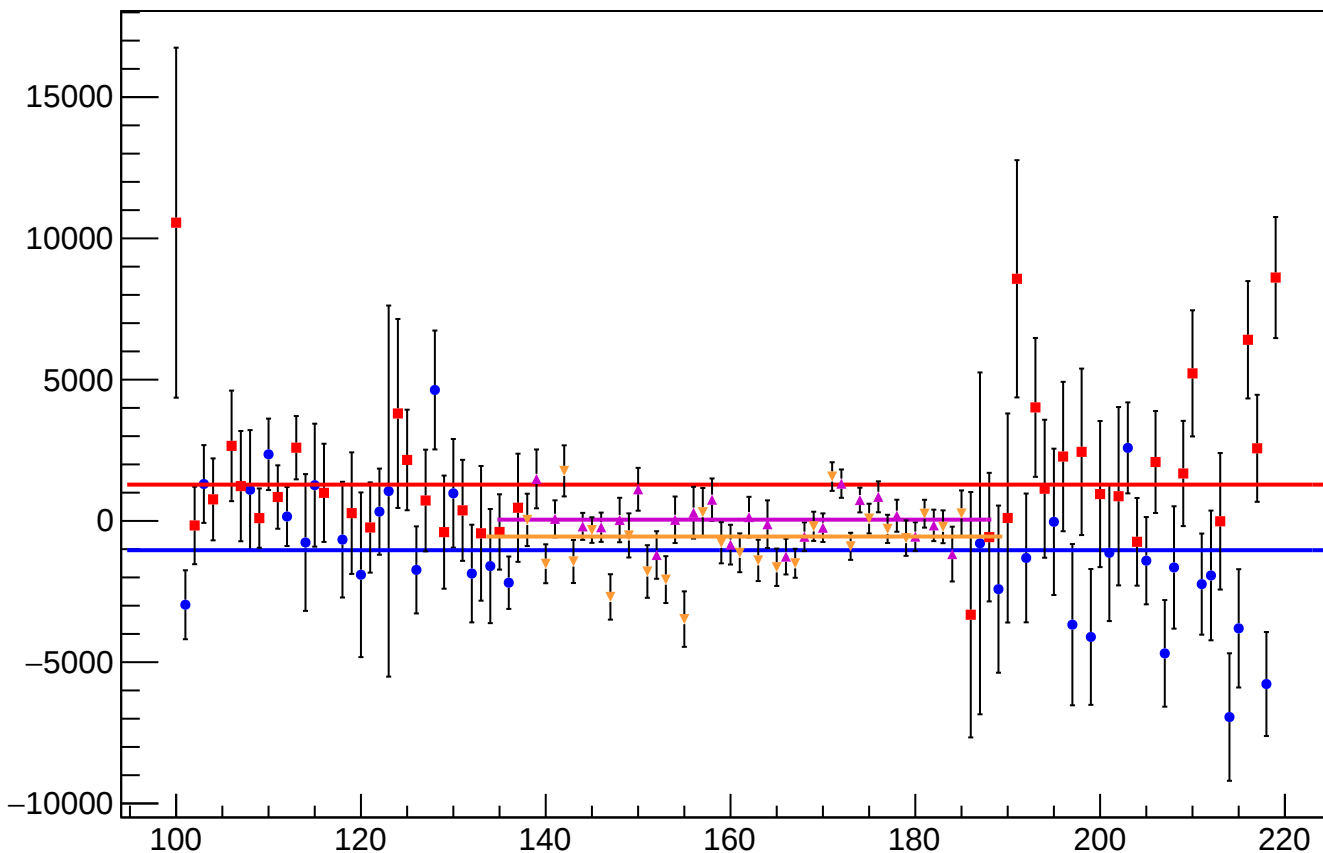
Right: 94.555 $\pm$ 0.012 χ^2 /NDF: 15134612.1/69

In: 70.908 $\pm$ 0.009 χ^2 /NDF: 9989076.3/55

Out: 70.402 $\pm$ 0.009 χ^2 /NDF: 11495359.2/61

All: 70.647 $\pm$ 0.006 χ^2 /NDF: 21486015.7/117

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -1036.492 ± 311.754 $\chi^2/\text{NDF}: 55.1/32$

Left Out: -552.511 ± 126.981 $\chi^2/\text{NDF}: 65.3/24$

Right Out: 1284.621 ± 306.976 $\chi^2/\text{NDF}: 42.1/36$

Left In: 44.578 ± 129.095 $\chi^2/\text{NDF}: 29.6/22$

Left: -258.894 ± 90.527 $\chi^2/\text{NDF}: 105.7/47$

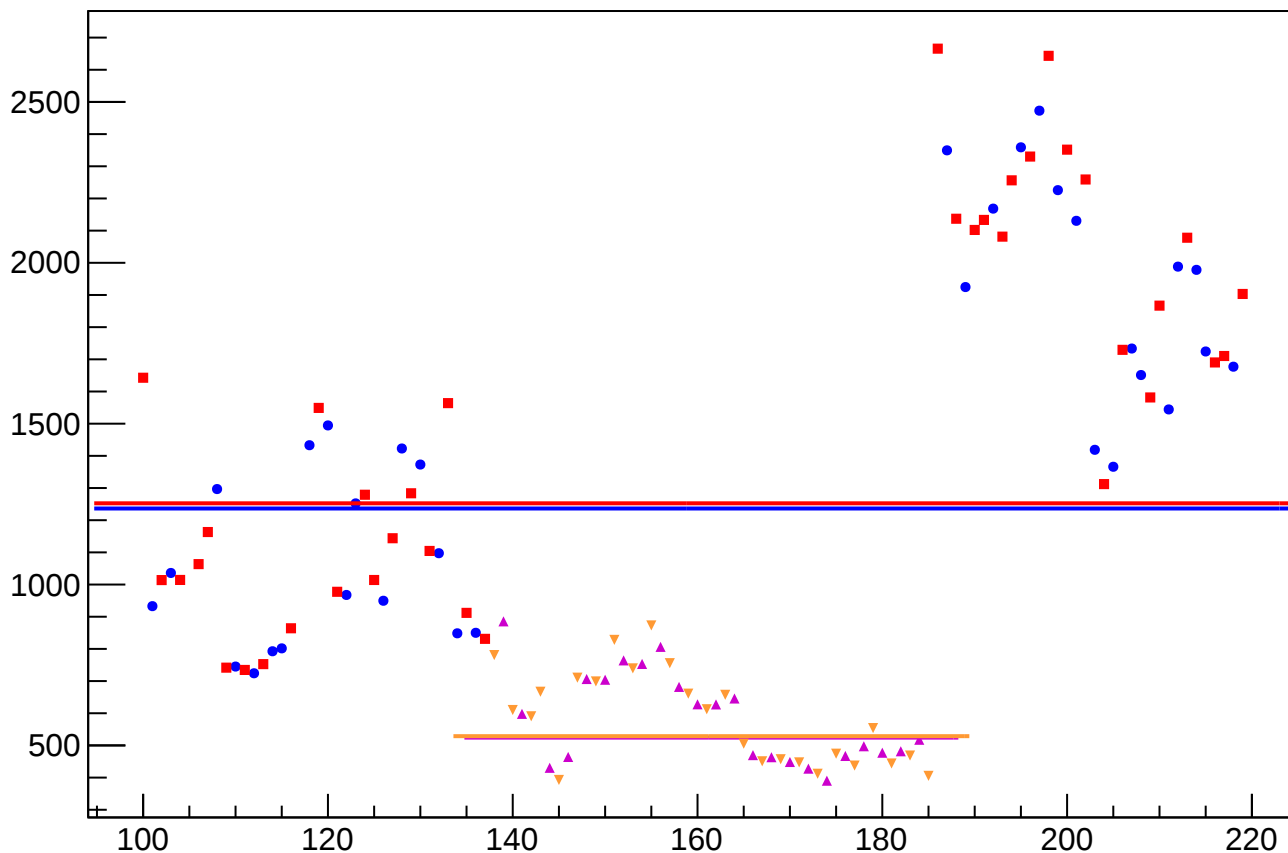
Right: 141.987 ± 218.734 $\chi^2/\text{NDF}: 125.4/69$

In: -113.661 ± 119.273 $\chi^2/\text{NDF}: 94.9/55$

Out: -284.092 ± 117.338 $\chi^2/\text{NDF}: 138.0/61$

All: -200.270 ± 83.646 $\chi^2/\text{NDF}: 234.0/117$

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 1236.360+/-0.220 χ^2/NDF : 4563399.9/32

Left Out: 528.736+/-0.090 χ^2/NDF :1983697.7/24

Right Out: 1252.495+/-0.217 χ^2/NDF : 5555542.5/36

Left In: 524.268+/-0.091 χ^2/NDF :1716257.3/22

Left: 526.539+/-0.064 χ^2/NDF : 3701172.5/47

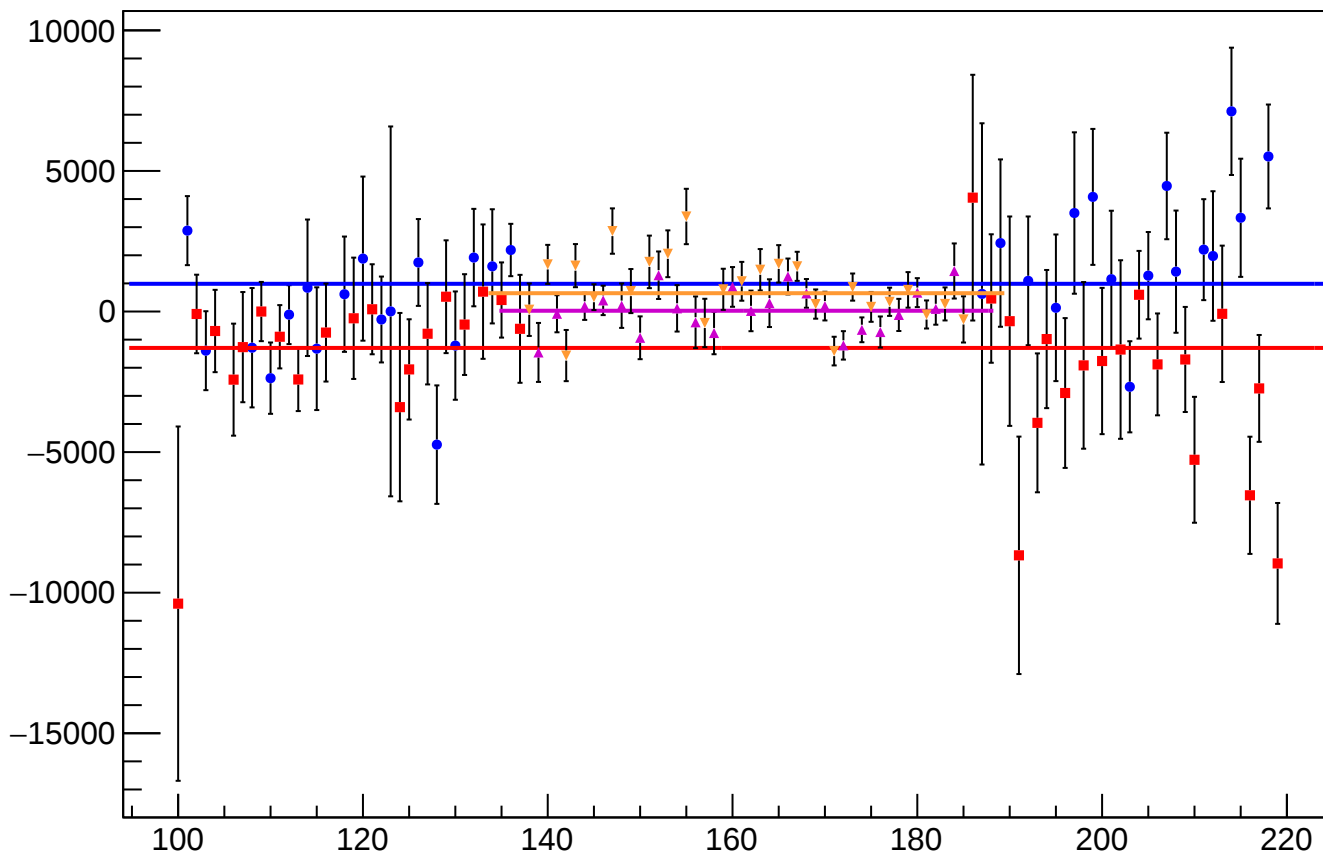
Right: 1244.552+/-0.155 χ^2/NDF : 10121662.5/69

In: 628.499+/-0.084 χ^2/NDF :15186975.4/55

Out: 634.483+/-0.083 χ^2/NDF :17032456.5/61

All: 631.540+/-0.059 χ^2/NDF : 32221989.6/11

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 985.833 $\pm$ 313.191 χ^2/NDF : 54.0/32

Left Out: 651.560 $\pm$ 127.961 χ^2/NDF : 61.1/24

Right Out: -1294.962 $\pm$ 308.487 χ^2/NDF : 42.6/36

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

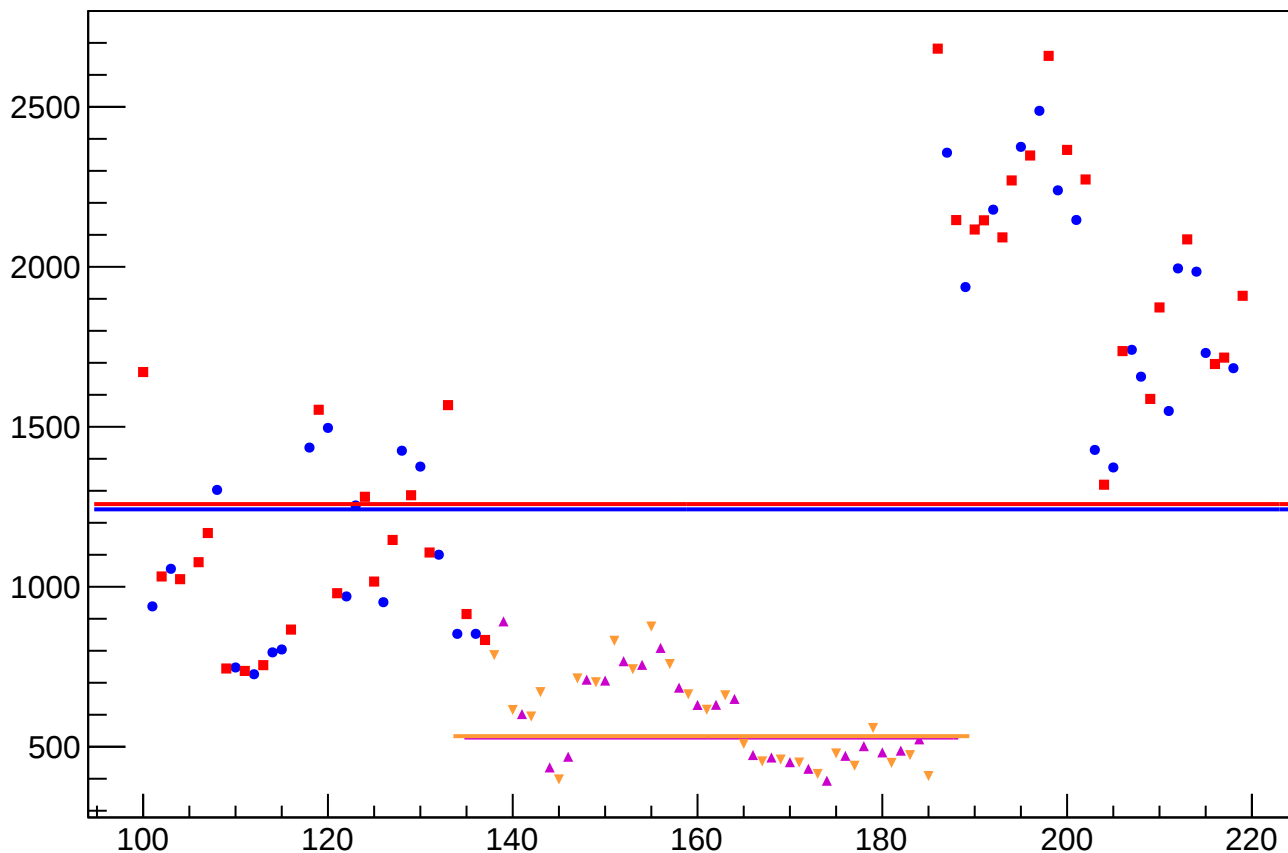
Right: -171.819 $\pm$ 219.777 χ^2/NDF : 123.5/69

In: 168.568 $\pm$ 120.167 χ^2/NDF : 90.4/55

Out: 365.807 $\pm$ 118.196 χ^2/NDF : 137.7/61

All: 268.818 $\pm$ 84.265 χ^2/NDF : 229.5/117

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 1241.990 $\pm$ 0.221 χ^2 /NDF: 4567139.5/32

Left Out: 533.060 $\pm$ 0.090 χ^2 /NDF:1951536.4/24

Right Out: 1258.429 $\pm$ 0.218 χ^2 /NDF: 5560514.2/36

Left In: 528.694 $\pm$ 0.092 χ^2 /NDF:1688511.2/22

Left: 530.914 $\pm$ 0.065 χ^2 /NDF: 3641192.3/47

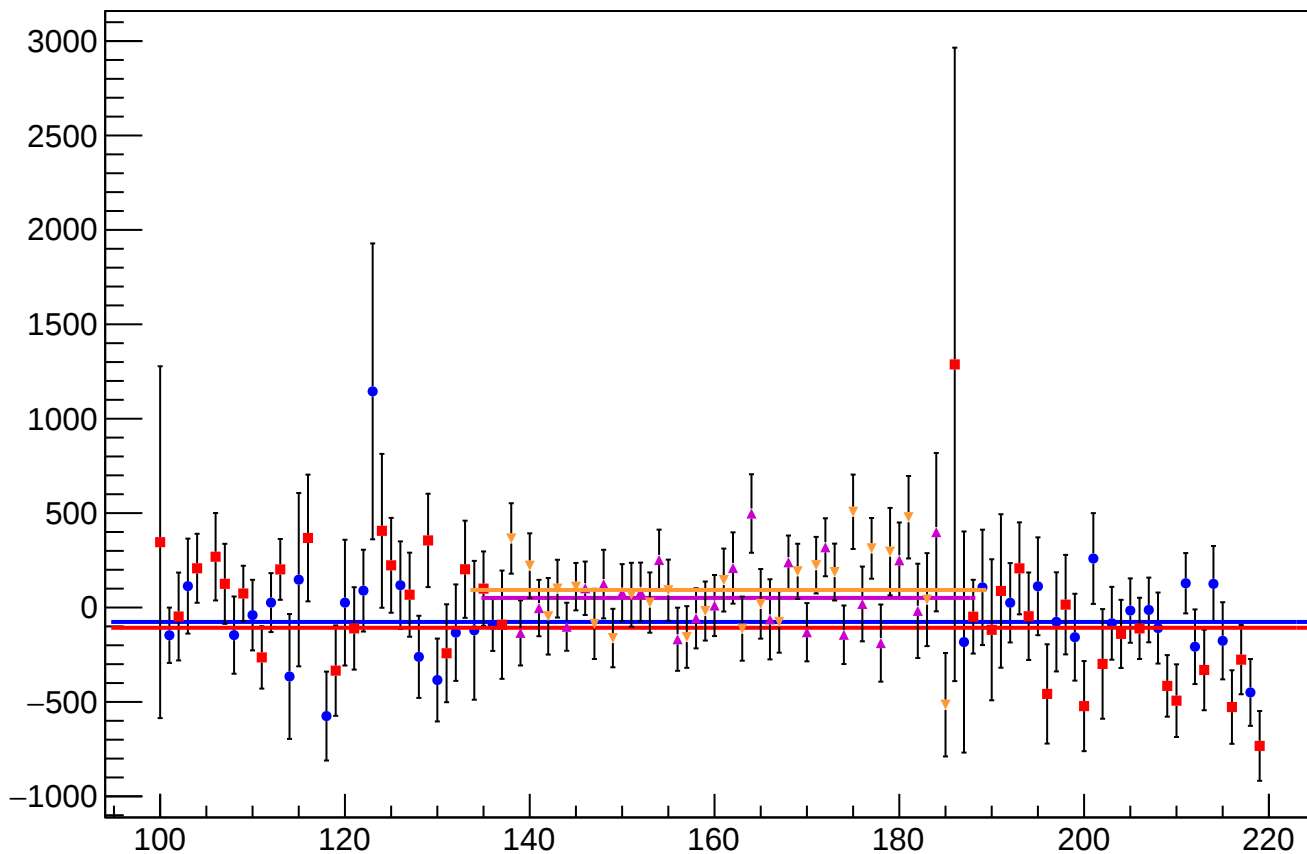
Right: 1250.334 $\pm$ 0.155 χ^2 /NDF: 10130450.5/69

In: 633.703 $\pm$ 0.085 χ^2 /NDF:15102549.2/55

Out: 639.546 $\pm$ 0.084 χ^2 /NDF:16946654.1/61

All: 636.672 $\pm$ 0.060 χ^2 /NDF: 32051606.9/11

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -76.358 ± 37.096 χ^2/NDF : 24.8/32

Left Out: 92.994 ± 34.054 χ^2/NDF : 29.4/24

Right Out: -107.292 ± 36.275 χ^2/NDF : 60.3/36

Left In: 50.896 ± 35.280 χ^2/NDF : 23.5/22

Left: 72.689 ± 24.502 χ^2/NDF : 53.6/47

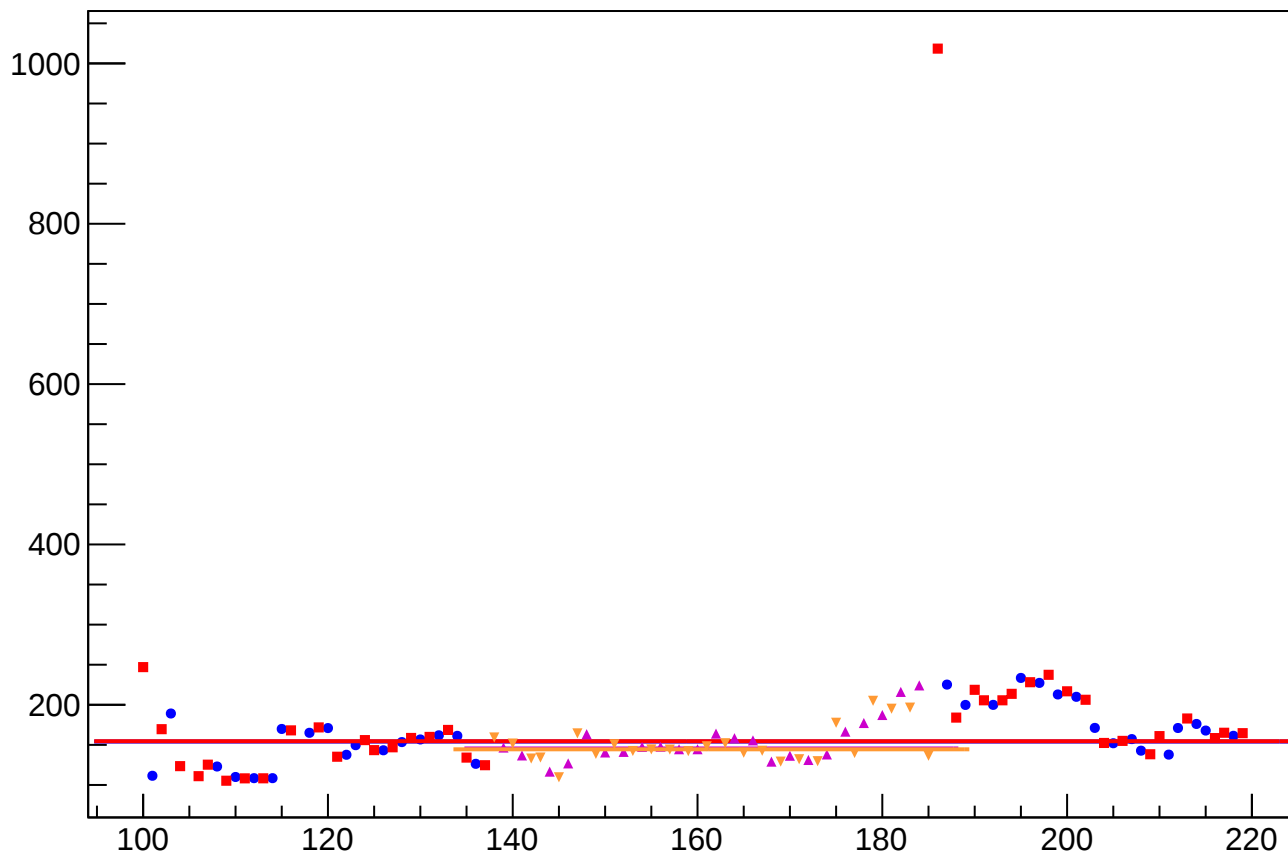
Right: -92.171 ± 25.936 χ^2/NDF : 85.4/69

In: -9.540 ± 25.565 χ^2/NDF : 54.4/55

Out: -0.829 ± 24.828 χ^2/NDF : 105.9/61

All: -5.057 ± 17.811 χ^2/NDF : 160.4/117

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 154.140 $\pm$ 0.026 χ^2 /NDF: 1533403.6/32

Left Out: 144.475 $\pm$ 0.024 χ^2 /NDF: 670488.7/24

Right Out: 154.578 $\pm$ 0.026 χ^2 /NDF: 2337469.8/36

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

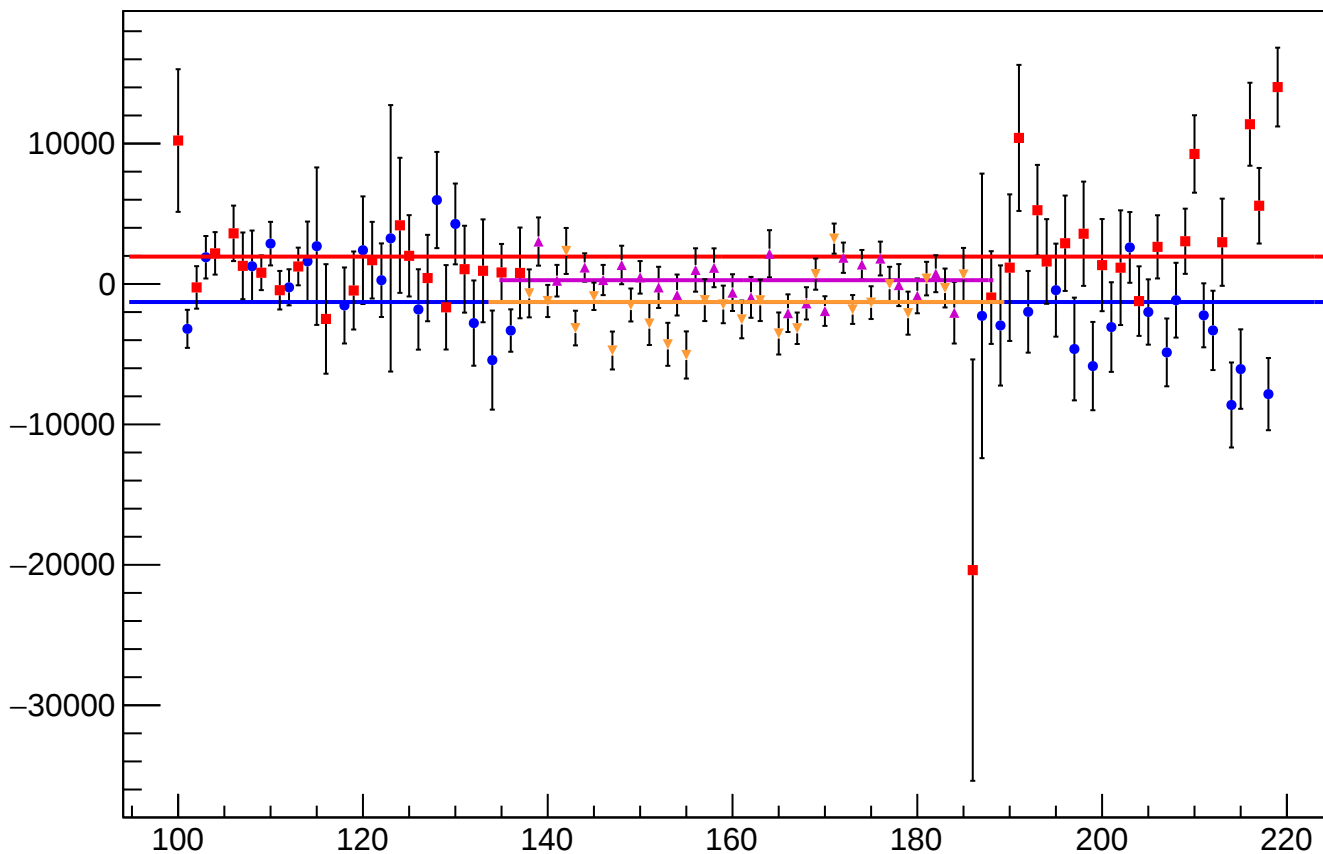
Right: 154.364 $\pm$ 0.018 χ^2 /NDF: 3871015.7/69

In: 149.622 $\pm$ 0.018 χ^2 /NDF: 2233445.7/55

Out: 149.208 $\pm$ 0.018 χ^2 /NDF: 3090416.6/61

All: 149.409 $\pm$ 0.013 χ^2 /NDF: 5324132.0/117

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -1284.459 $\pm$ 425.036 χ^2/NDF : 54.1/32

Left Out: -1279.328 $\pm$ 259.299 χ^2/NDF : 55.9/24

Right Out: 1950.243 $\pm$ 402.880 χ^2/NDF : 61.0/36

Left In: 269.952 $\pm$ 266.245 χ^2/NDF : 24.3/22

Left: -525.161 $\pm$ 185.759 χ^2/NDF : 97.6/47

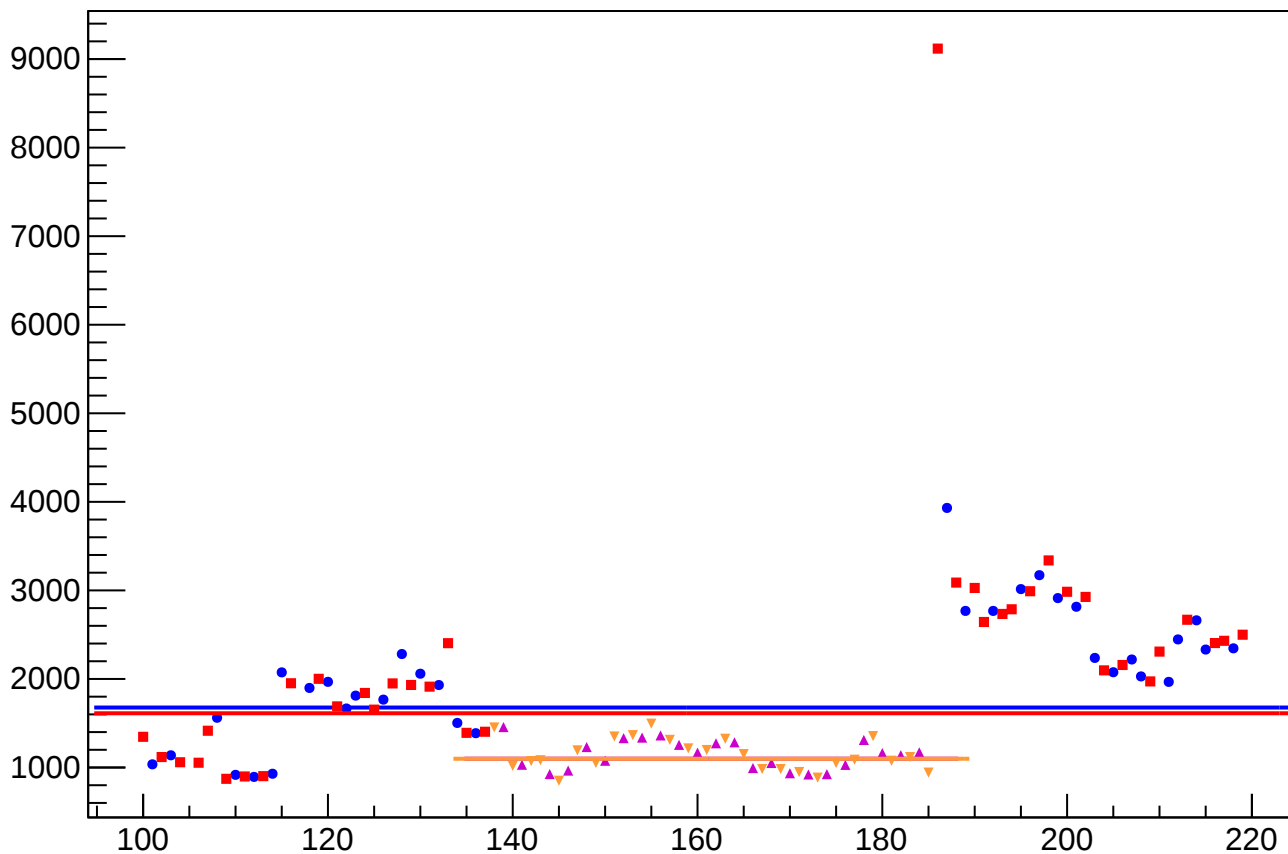
Right: 419.394 $\pm$ 292.398 χ^2/NDF : 145.6/69

In: -168.093 $\pm$ 225.633 χ^2/NDF : 88.0/55

Out: -333.368 $\pm$ 218.042 χ^2/NDF : 162.3/61

All: -253.558 $\pm$ 156.794 χ^2/NDF : 250.6/117

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1677.300+/-0.301 χ^2 /NDF: 4957139.2/32

Left Out: 1098.909+/-0.183 χ^2 /NDF: 824328.7/24

Right Out: 1612.527+/-0.285 χ^2 /NDF: 6848334.4/36

Left In: 1099.585+/-0.188 χ^2 /NDF: 679896.1/22

Left: 1099.238+/-0.131 χ^2 /NDF: 1504231.4/47

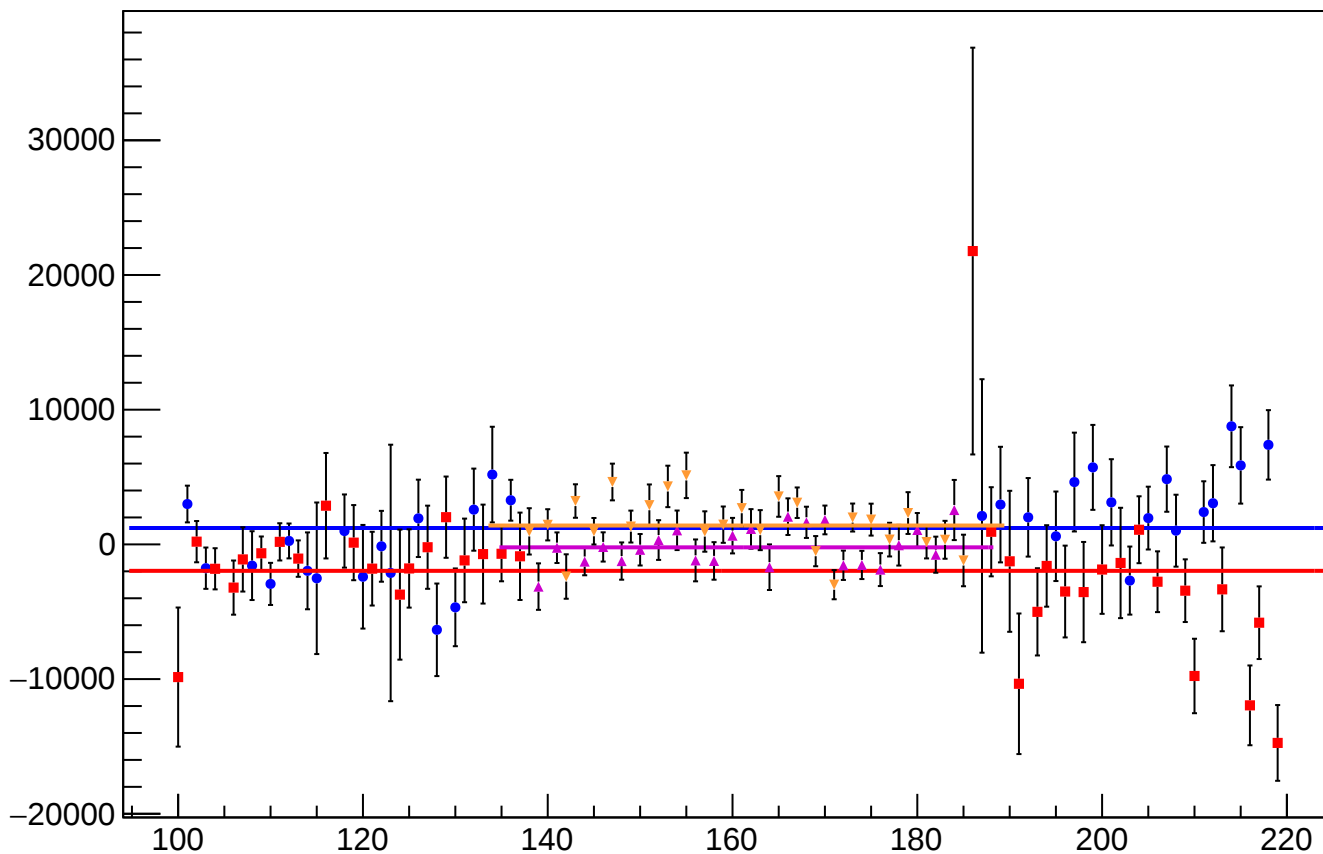
Right: 1643.182+/-0.207 χ^2 /NDF: 11829939.9/69

In: 1262.390+/-0.160 χ^2 /NDF: 8290708.5/55

Out: 1249.351+/-0.154 χ^2 /NDF: 9971123.2/61

All: 1255.647+/-0.111 χ^2 /NDF: 18265285.6/1

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 1216.718 $\pm$ 427.239 χ^2 /NDF: 53.2/32

Left Out: 1400.458 $\pm$ 261.804 χ^2 /NDF: 52.2/24

Right Out: -1963.477 $\pm$ 405.352 χ^2 /NDF: 65.2/36

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

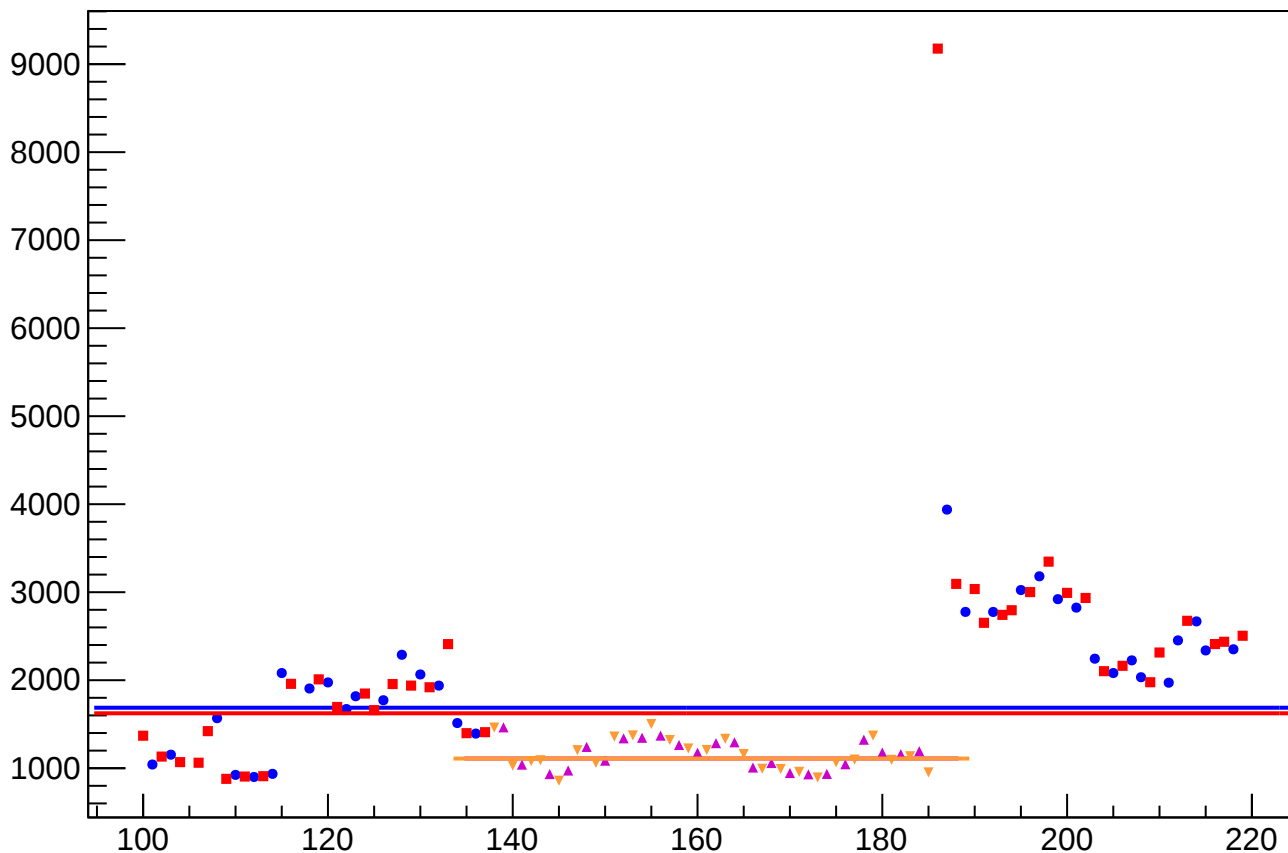
Right: -456.922 $\pm$ 294.060 χ^2 /NDF: 147.5/69

In: 187.979 $\pm$ 227.548 χ^2 /NDF: 86.3/55

Out: 410.263 $\pm$ 219.922 χ^2 /NDF: 166.0/61

All: 302.908 $\pm$ 158.136 χ^2 /NDF: 252.8/117

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1687.470+/-0.302 χ^2/NDF : 4903928.8/32

Left Out: 1109.761+/-0.185 χ^2/NDF : 812174.9/24

Right Out: 1623.983+/-0.287 χ^2/NDF : 6777257.7/36

Left In: 1110.542+/-0.190 χ^2/NDF : 669928.9/22

Left: 1110.141+/-0.133 χ^2/NDF : 1482112.5/47

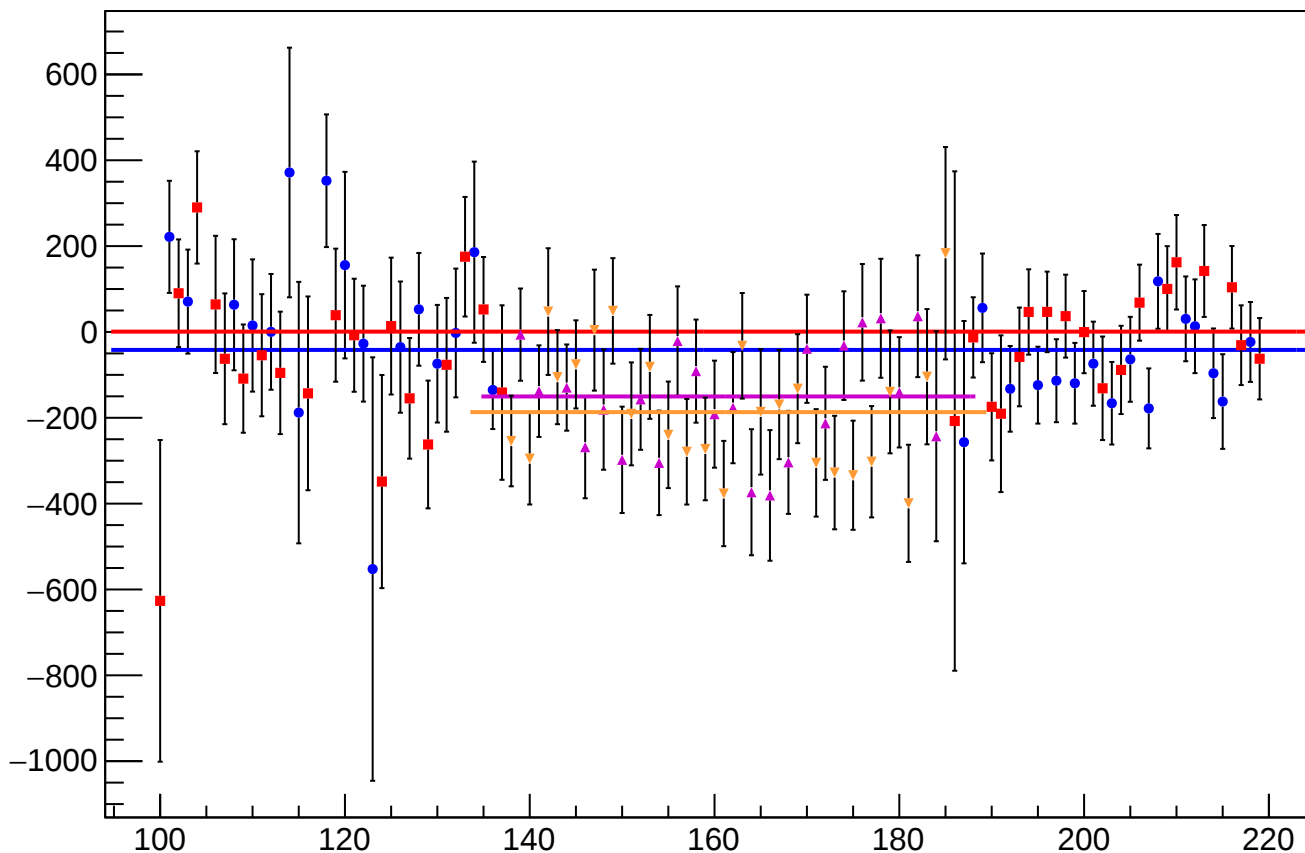
Right: 1654.059+/-0.208 χ^2/NDF : 11704427.6/69

In: 1274.195+/-0.161 χ^2/NDF : 8186312.9/55

Out: 1261.126+/-0.156 χ^2/NDF : 9860616.7/61

All: 1267.438+/-0.112 χ^2/NDF : 18050340.7/122

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -41.875 ± 21.032 χ^2/NDF : 31.6/32

Left Out: -186.838 ± 25.308 χ^2/NDF : 26.6/24

Right Out: 0.756 ± 20.237 χ^2/NDF : 32.4/36

Left In: -150.315 ± 26.445 χ^2/NDF : 20.7/22

Left: -169.379 ± 18.284 χ^2/NDF : 48.3/47

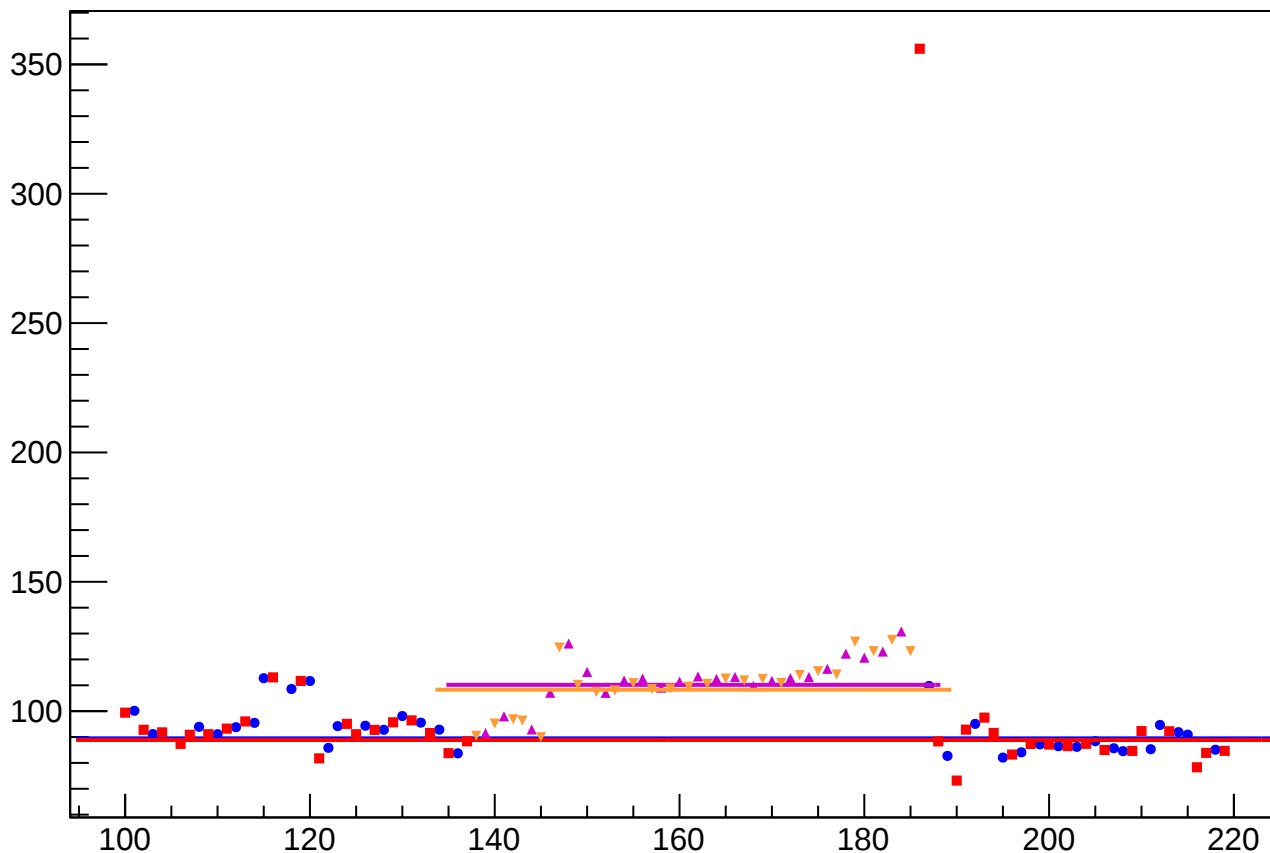
Right: -19.738 ± 14.583 χ^2/NDF : 66.1/69

In: -83.890 ± 16.461 χ^2/NDF : 62.6/55

Out: -72.409 ± 15.805 χ^2/NDF : 92.5/61

All: -77.916 ± 11.401 χ^2/NDF : 155.3/117

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected

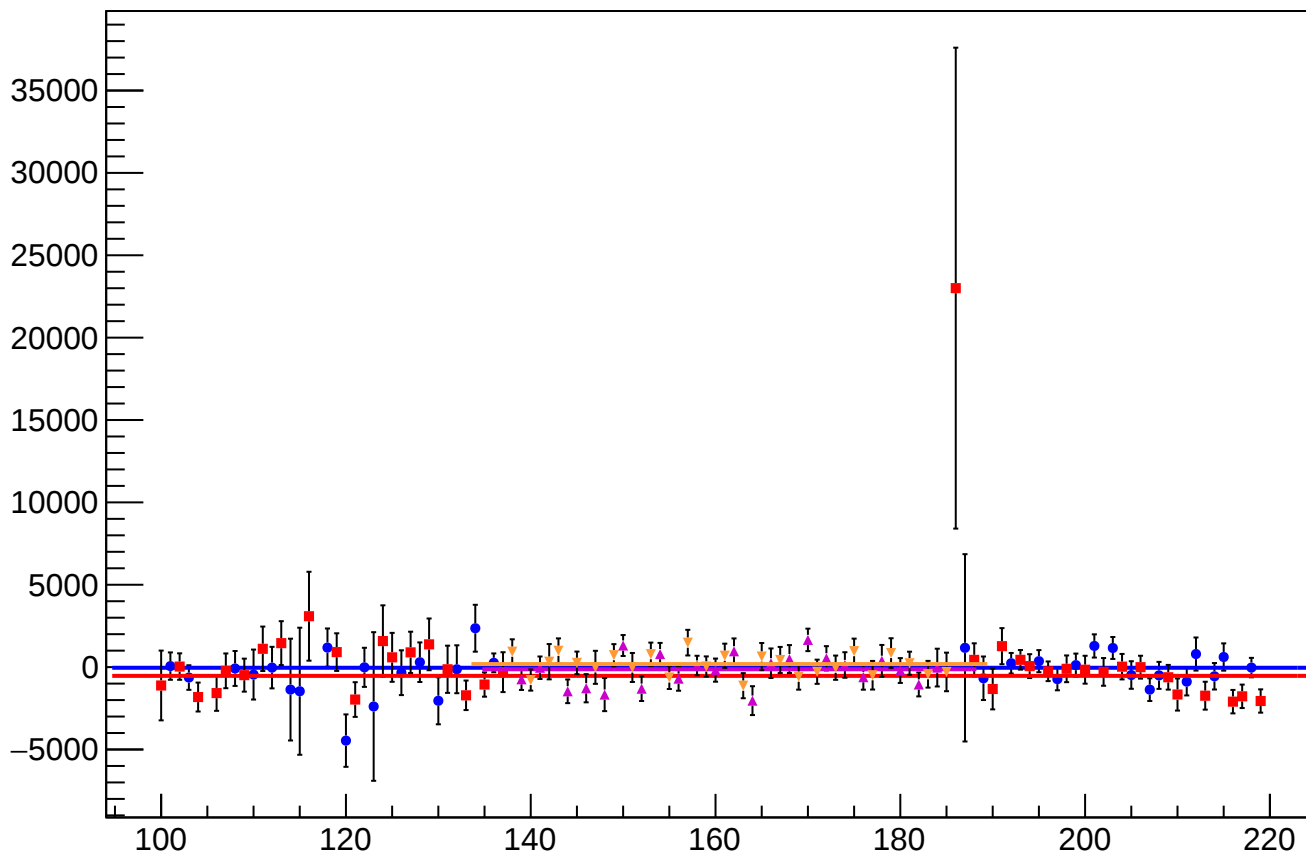


Right In: 89.480 $\pm$ 0.015 χ^2 /NDF: 175600.1/32
 Left Out: 108.287 $\pm$ 0.018 χ^2 /NDF: 330693.5/24
 Right Out: 88.856 $\pm$ 0.014 χ^2 /NDF: 623201.1/36
 Left In: 110.173 $\pm$ 0.019 χ^2 /NDF: 246967.7/22

Left: 109.189 $\pm$ 0.013 χ^2 /NDF: 582969.0/47
 Right: 89.156 $\pm$ 0.010 χ^2 /NDF: 799714.6/69
 In: 97.498 $\pm$ 0.012 χ^2 /NDF: 1172688.6/55
 Out: 96.435 $\pm$ 0.011 χ^2 /NDF: 1673046.5/61

All: 96.945 $\pm$ 0.008 χ^2 /NDF: 2850073.7/117

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -38.943 ± 157.674 χ^2/NDF : 31.1/32

Left Out: 185.392 ± 153.683 χ^2/NDF : 18.4/24

Right Out: -530.553 ± 152.524 χ^2/NDF : 47.1/36

Left In: -128.782 ± 157.155 χ^2/NDF : 36.2/22

Left: 31.814 ± 109.877 χ^2/NDF : 56.6/47

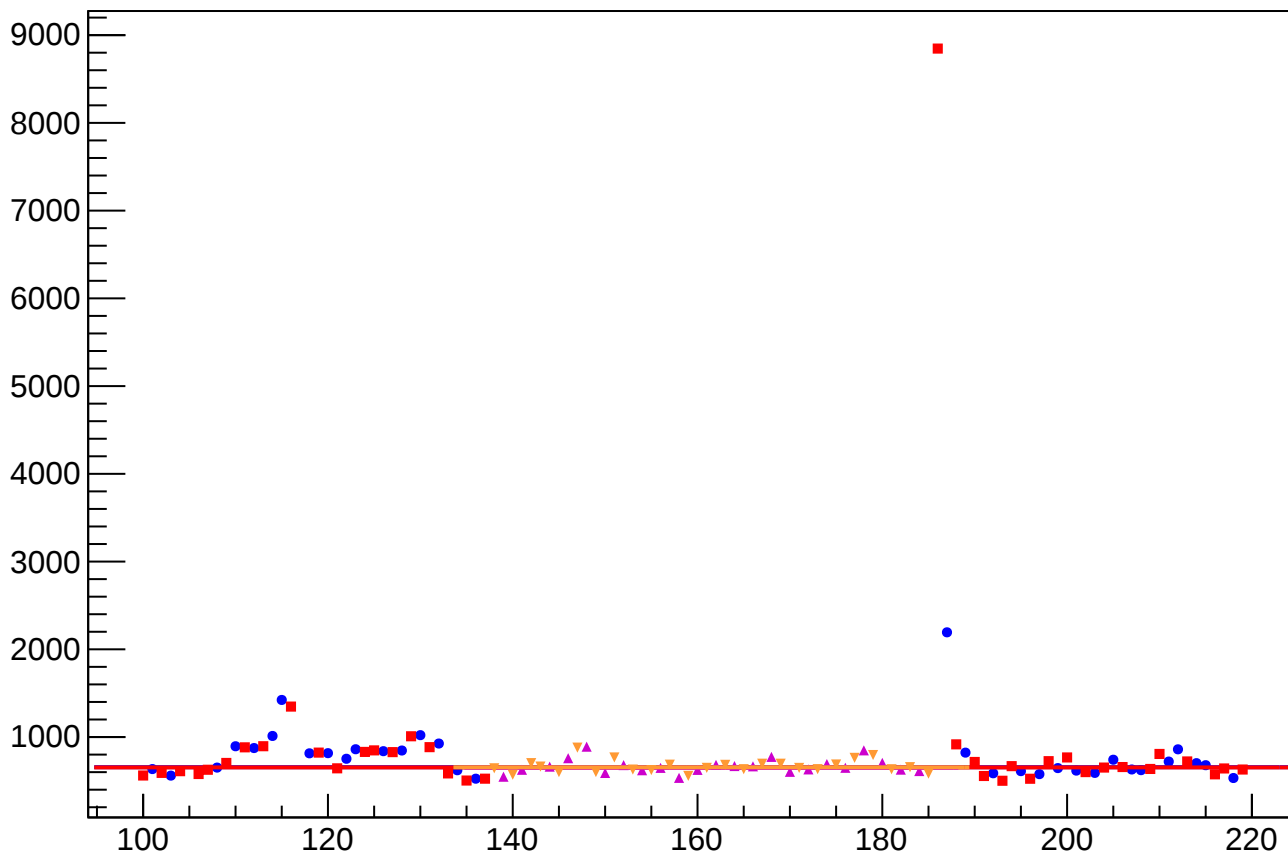
Right: -292.908 ± 109.626 χ^2/NDF : 83.3/69

In: -84.011 ± 111.309 χ^2/NDF : 67.5/55

Out: -175.291 ± 108.258 χ^2/NDF : 76.5/61

All: -130.919 ± 77.606 χ^2/NDF : 144.3/117

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 656.657 $\pm$ 0.111 χ^2 /NDF: 1196480.7/32

Left Out: 655.155 $\pm$ 0.109 χ^2 /NDF: 367349.8/24

Right Out: 653.851 $\pm$ 0.108 χ^2 /NDF: 1856707.6/36

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

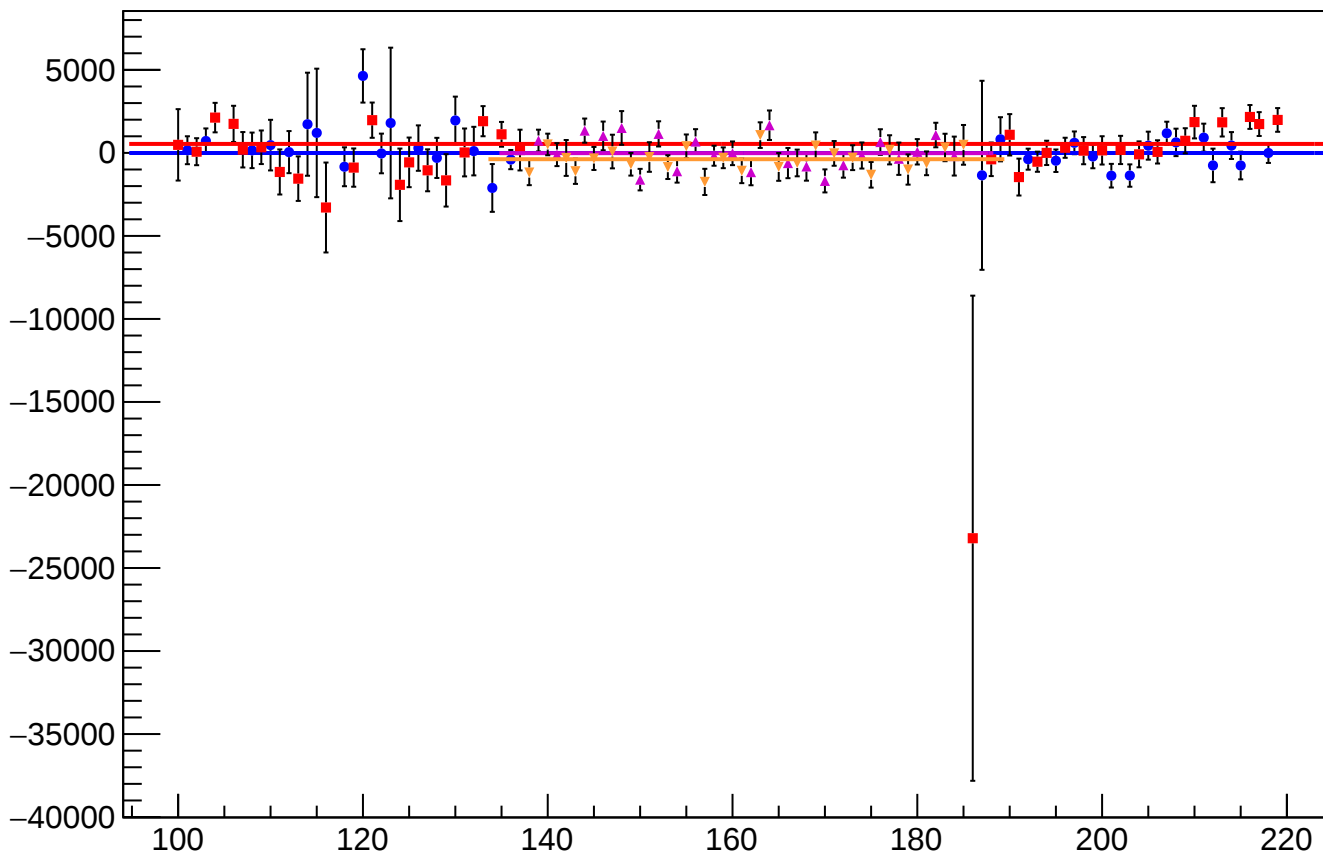
Right: 655.208 $\pm$ 0.078 χ^2 /NDF: 3053515.6/69

In: 653.761 $\pm$ 0.079 χ^2 /NDF: 1663943.0/55

Out: 654.498 $\pm$ 0.077 χ^2 /NDF: 2224129.9/61

All: 654.140 $\pm$ 0.055 χ^2 /NDF: 3888118.1/117

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: -5.873 ± 159.265 χ^2/NDF : 31.6/32

Left Out: -379.470 ± 155.892 χ^2/NDF : 18.8/24

Right Out: 540.174 ± 154.093 χ^2/NDF : 51.3/36

Left In: -14.768 ± 159.513 χ^2/NDF : 37.2/22

Left: -201.306 ± 111.491 χ^2/NDF : 58.7/47

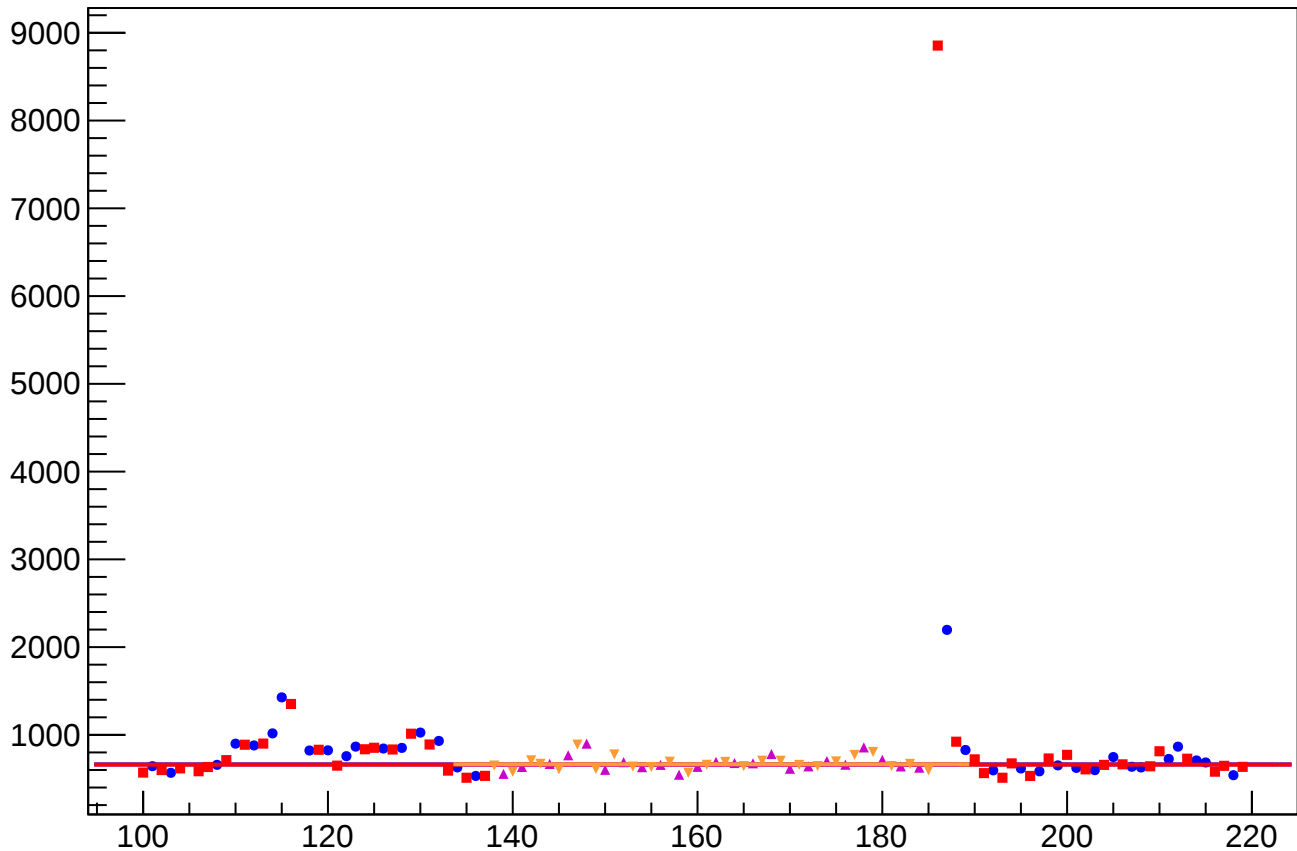
Right: 276.160 ± 110.743 χ^2/NDF : 89.0/69

In: -10.313 ± 112.705 χ^2/NDF : 68.8/55

Out: 85.689 ± 109.591 χ^2/NDF : 87.7/61

All: 39.032 ± 78.570 χ^2/NDF : 156.9/117

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 663.697+/-0.113 χ^2/NDF : 1168147.4/32

Left Out: 664.773+/-0.110 χ^2/NDF : 357053.8/24

Right Out: 661.067+/-0.109 χ^2/NDF : 1819303.1/36

Left In: 660.890+/-0.113 χ^2/NDF : 449180.0/22

Left: 662.876+/-0.079 χ^2/NDF : 806839.8/47

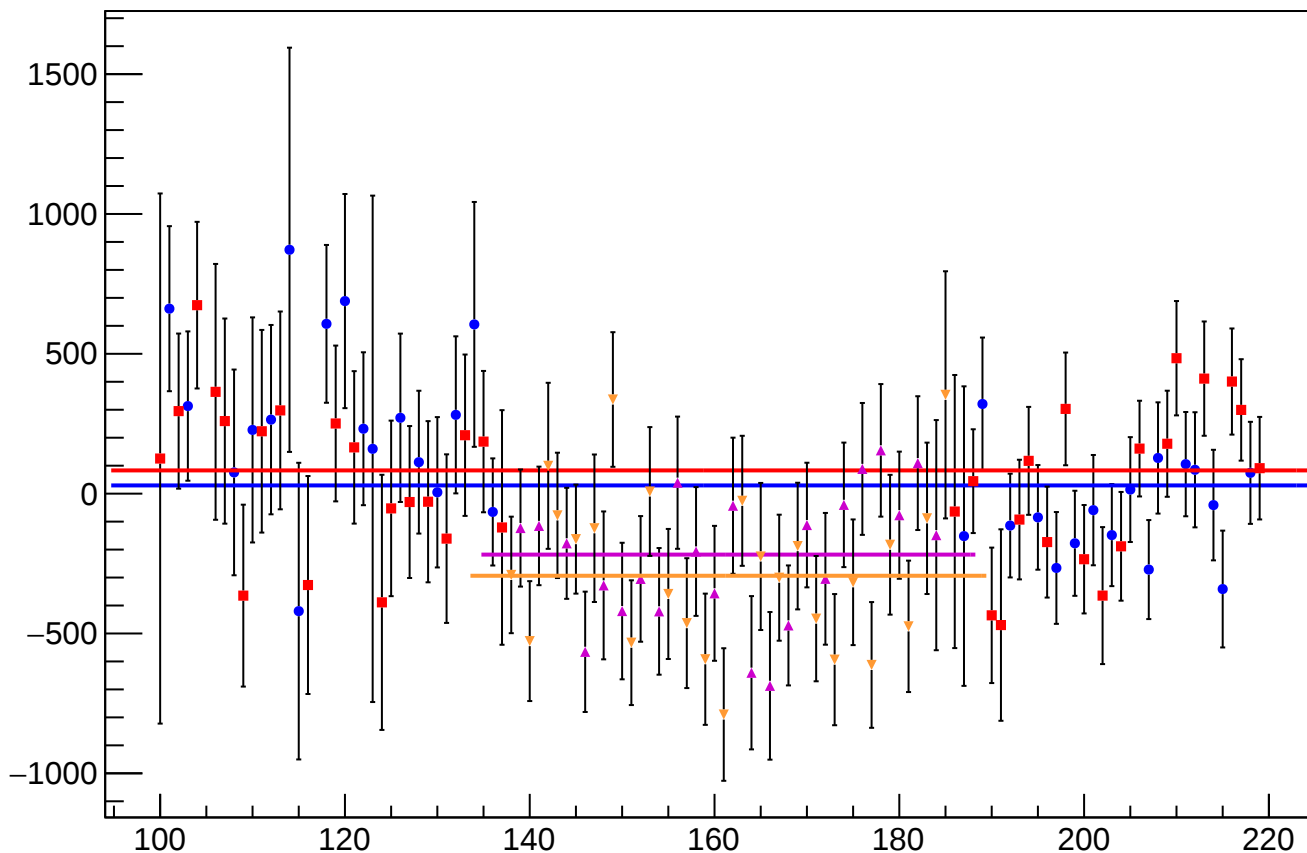
Right: 662.339+/-0.078 χ^2/NDF : 2987732.3/69

In: 662.296+/-0.080 χ^2/NDF : 1617637.6/55

Out: 662.898+/-0.077 χ^2/NDF : 2176928.6/61

All: 662.605+/-0.056 χ^2/NDF : 3794595.5/117

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected

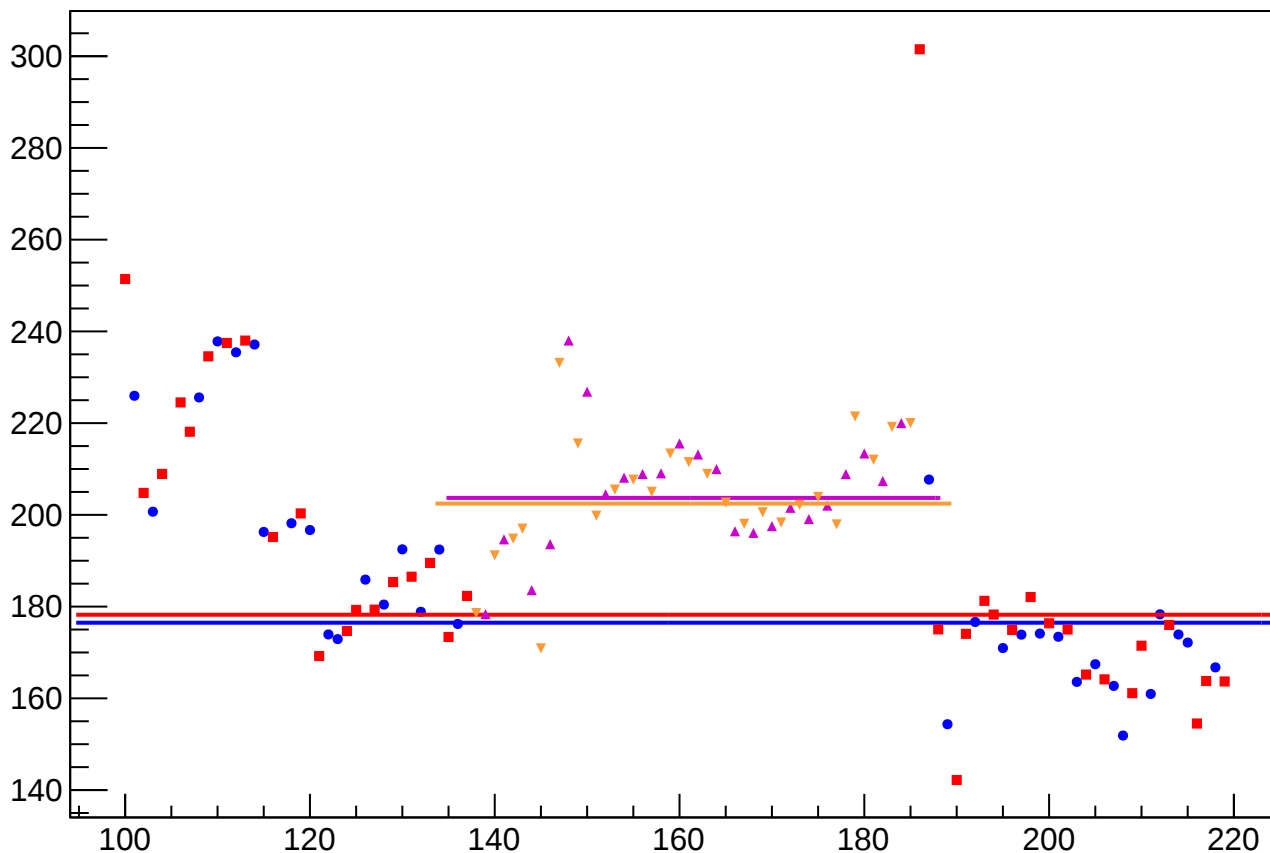


Right In: 29.403 ± 41.625 $\chi^2/\text{NDF}: 33.6/32$
 Left Out: -293.590 ± 47.203 $\chi^2/\text{NDF}: 30.3/24$
 Right Out: 83.074 ± 40.635 $\chi^2/\text{NDF}: 41.9/36$
 Left In: -217.964 ± 48.819 $\chi^2/\text{NDF}: 21.3/22$

Left: -257.050 ± 33.934 $\chi^2/\text{NDF}: 52.9/47$
 Right: 56.884 ± 29.077 $\chi^2/\text{NDF}: 76.4/69$
 In: -74.728 ± 31.674 $\chi^2/\text{NDF}: 69.8/55$
 Out: -77.249 ± 30.796 $\chi^2/\text{NDF}: 108.8/61$

All: -76.024 ± 22.080 $\chi^2/\text{NDF}: 178.6/117$

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 176.487 $\pm$ 0.029 χ^2 /NDF: 367530.6/32

Left Out: 202.459 $\pm$ 0.033 χ^2 /NDF:158582.3/24

Right Out: 178.224 $\pm$ 0.029 χ^2 /NDF: 564475.7/36

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

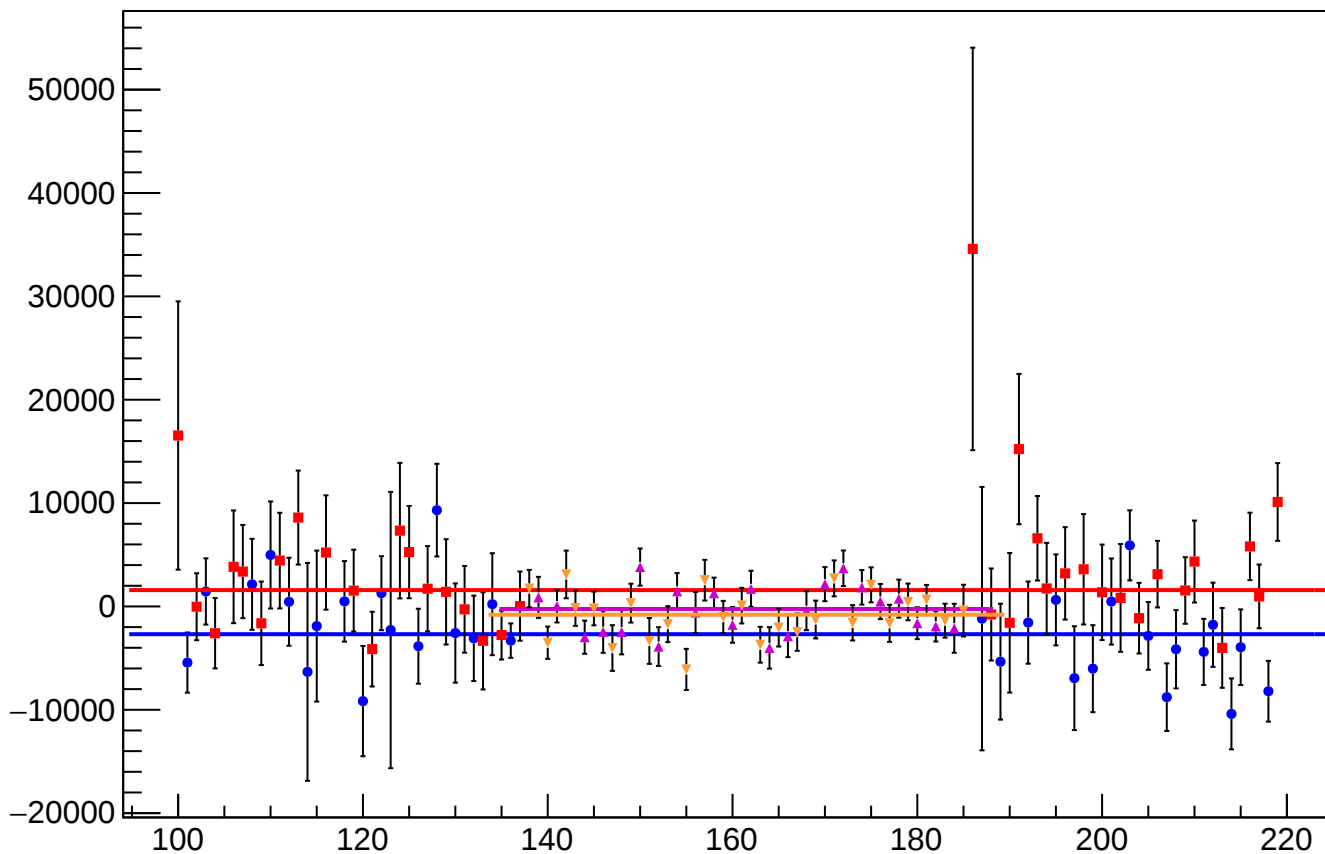
Right: 177.377 $\pm$ 0.021 χ^2 /NDF: 933789.4/69

In: 187.942 $\pm$ 0.022 χ^2 /NDF:863531.5/55

Out: 188.539 $\pm$ 0.022 χ^2 /NDF:1025849.7/61

All: 188.249 $\pm$ 0.016 χ^2 /NDF: 1889746.8/117

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -2685.737 ± 661.679 $\chi^2/\text{NDF}: 39.6/32$

Left Out: -796.528 ± 357.851 $\chi^2/\text{NDF}: 35.7/24$

Right Out: 1581.431 ± 675.346 $\chi^2/\text{NDF}: 35.0/36$

Left In: -245.102 ± 369.846 $\chi^2/\text{NDF}: 35.7/22$

Left: -529.902 ± 257.175 $\chi^2/\text{NDF}: 72.6/47$

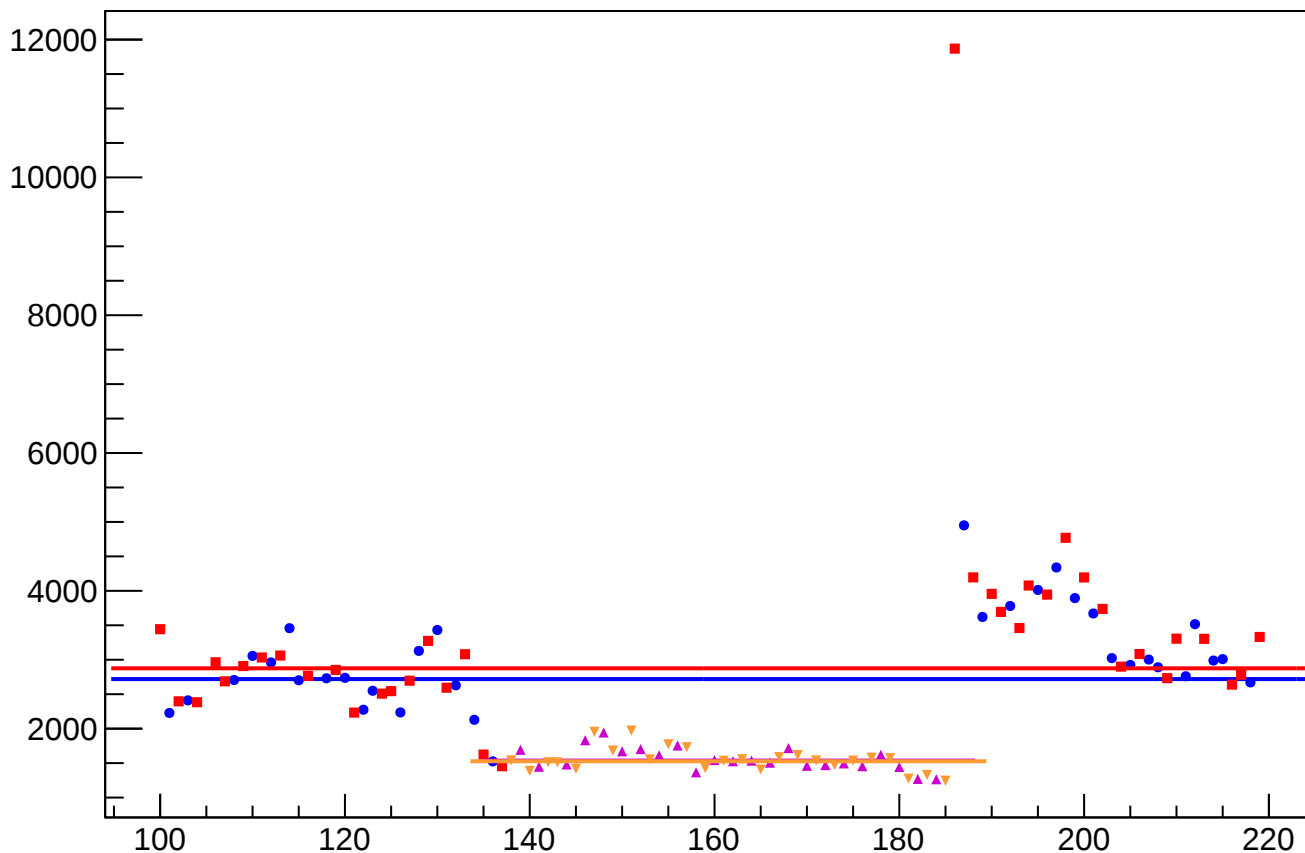
Right: -595.770 ± 472.636 $\chi^2/\text{NDF}: 95.1/69$

In: -826.102 ± 322.837 $\chi^2/\text{NDF}: 85.7/55$

Out: -275.232 ± 316.203 $\chi^2/\text{NDF}: 80.5/61$

All: -544.949 ± 225.898 $\chi^2/\text{NDF}: 167.7/117$

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2719.626 $\pm$ 0.468 χ^2 /NDF: 2327265.9/32

Left Out: 1526.712 $\pm$ 0.253 χ^2 /NDF: 394892.7/24

Right Out: 2875.539 $\pm$ 0.478 χ^2 /NDF: 2682924.0/36

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

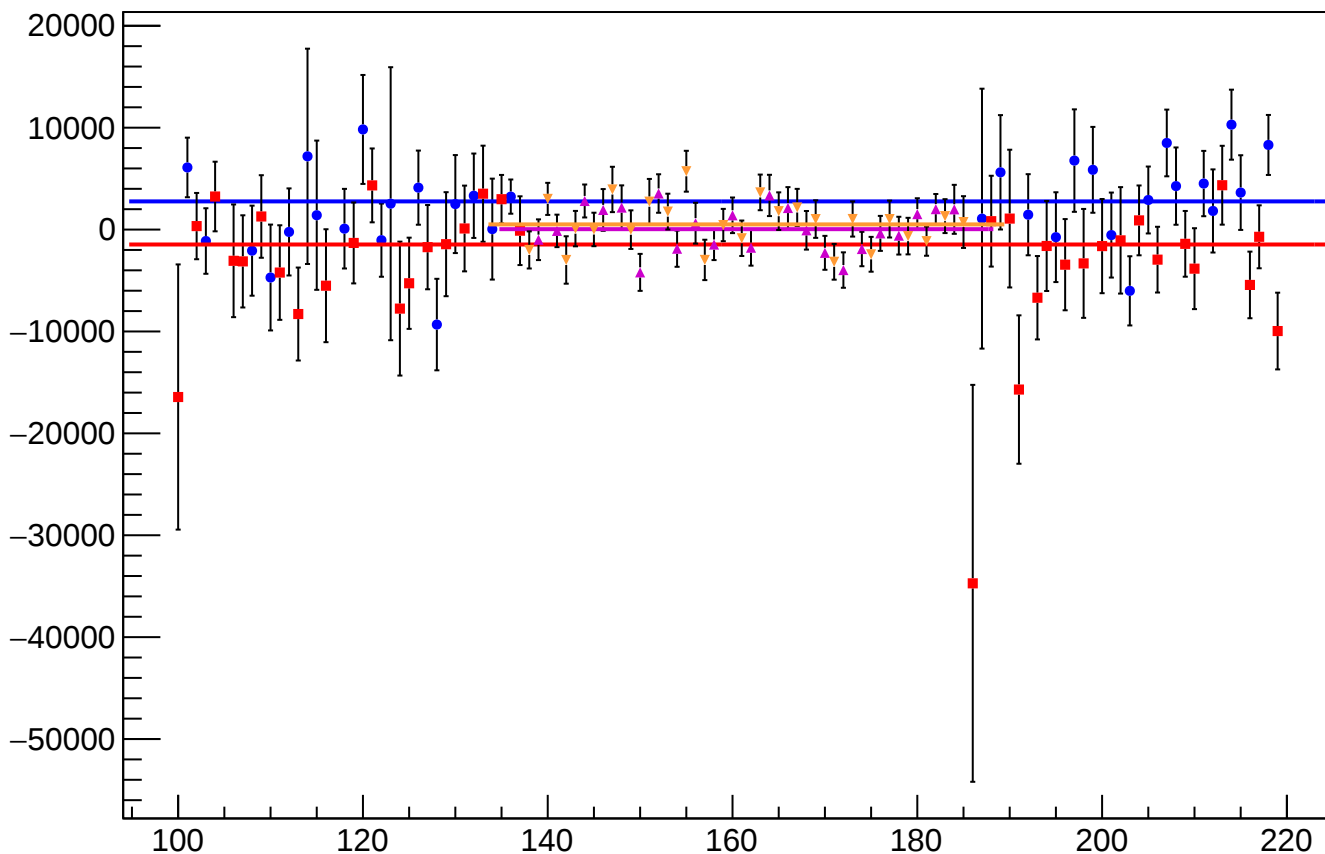
Right: 2795.989 $\pm$ 0.334 χ^2 /NDF: 5064577.9/69

In: 1818.175 $\pm$ 0.228 χ^2 /NDF: 7549498.2/55

Out: 1822.401 $\pm$ 0.224 χ^2 /NDF: 9306817.7/61

All: 1820.332 $\pm$ 0.160 χ^2 /NDF: 16856490.9/117

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2765.655+/-663.673 χ^2/NDF : 39.3/32

Left Out: 507.982+/-361.172 χ^2/NDF : 35.4/24

Right Out: -1464.109+/-677.228 χ^2/NDF : 35.5/36

Left In: 40.080+/-373.261 χ^2/NDF : 33.6/22

Left: 281.730+/-259.556 χ^2/NDF : 69.8/47

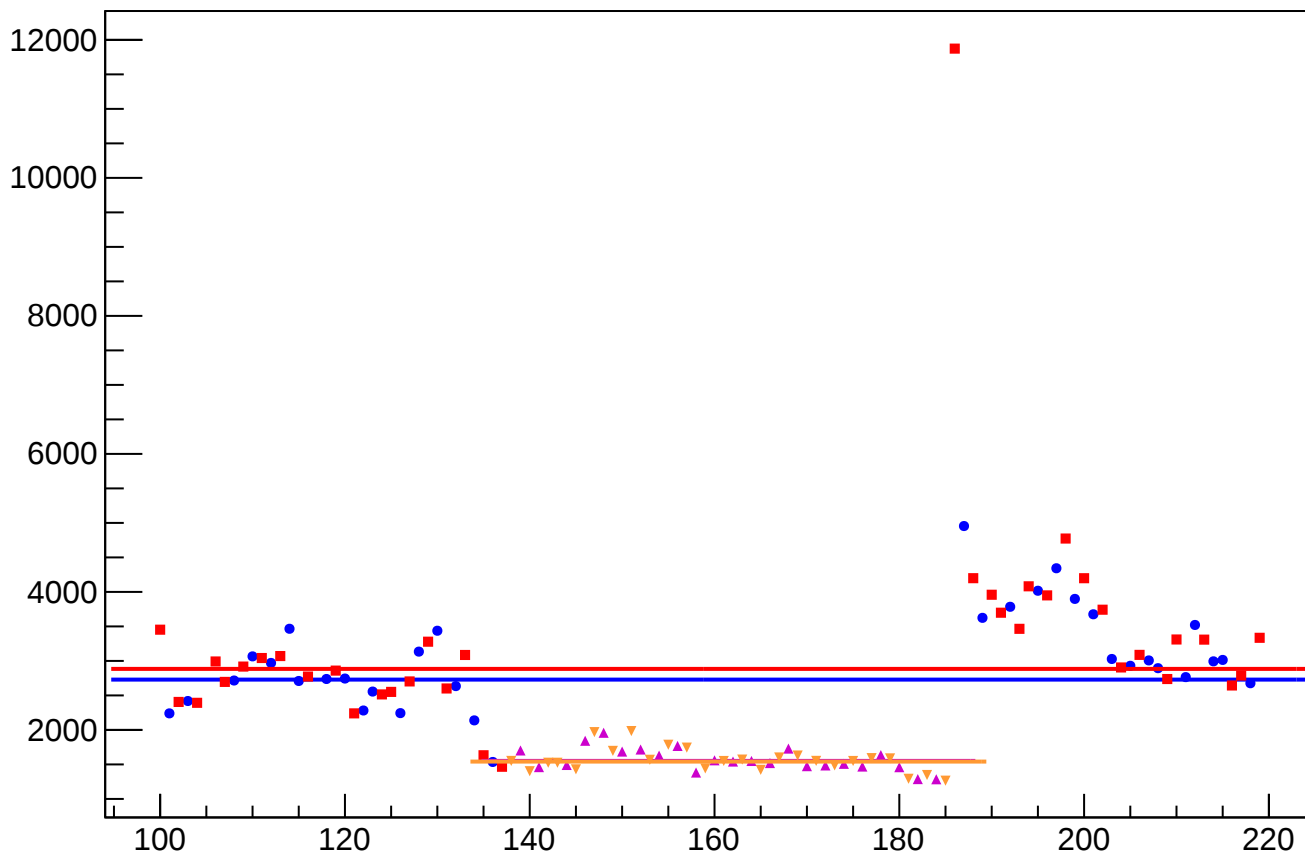
Right: 693.525+/-474.007 χ^2/NDF : 94.7/69

In: 695.042+/-325.337 χ^2/NDF : 85.7/55

Out: 71.285+/-318.685 χ^2/NDF : 77.4/61

All: 376.721+/-227.659 χ^2/NDF : 165.0/117

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2729.236 $\pm$ 0.469 χ^2 /NDF: 2294256.4/32

Left Out: 1541.258 $\pm$ 0.255 χ^2 /NDF: 382045.4/24

Right Out: 2884.430 $\pm$ 0.479 χ^2 /NDF: 2656631.9/36

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

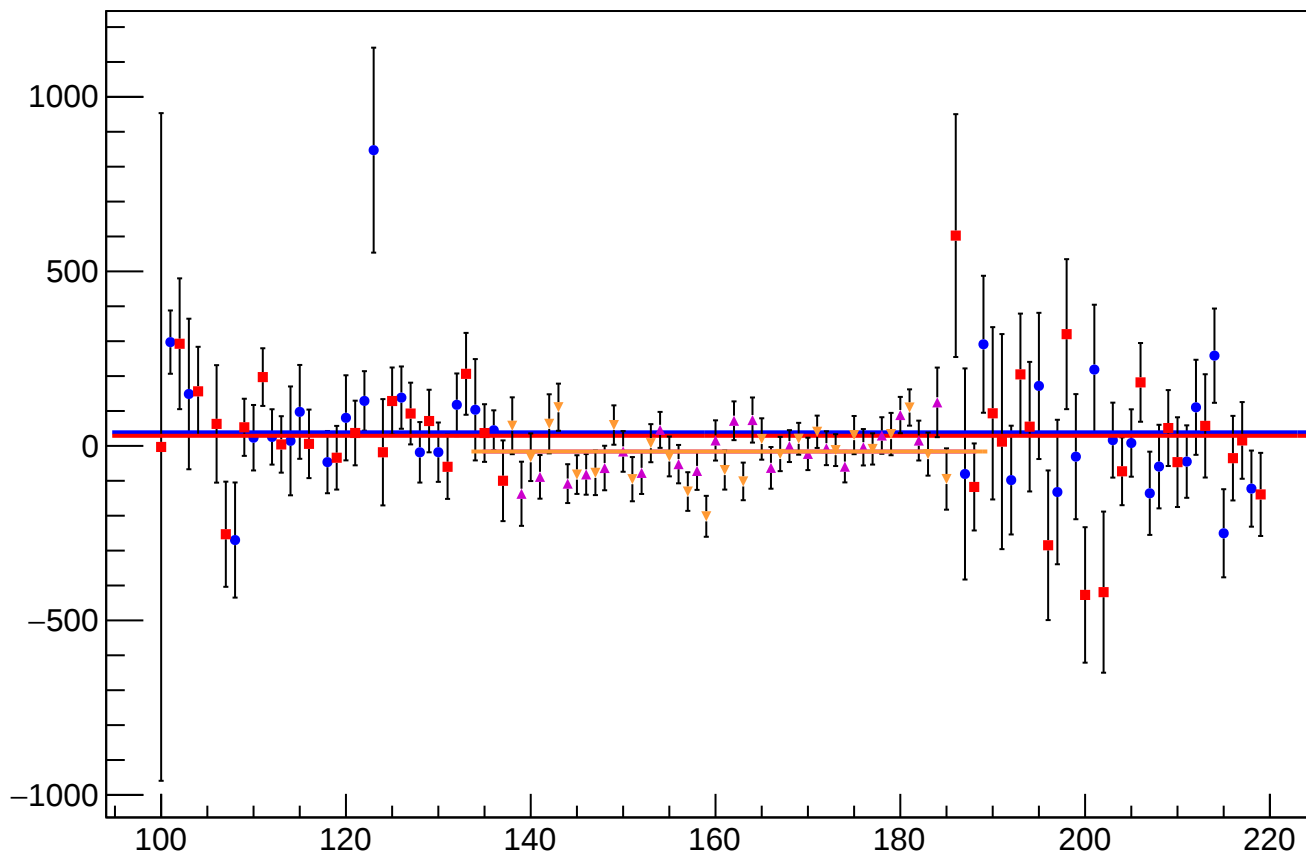
Right: 2805.264 $\pm$ 0.335 χ^2 /NDF: 5004464.4/69

In: 1834.181 $\pm$ 0.230 χ^2 /NDF: 7421443.3/55

Out: 1838.688 $\pm$ 0.225 χ^2 /NDF: 9163826.1/61

All: 1836.481 $\pm$ 0.161 χ^2 /NDF: 16585465.3/1

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 38.888 ± 19.488 χ^2/NDF : 43.7/32

Left Out: -16.049 ± 11.340 χ^2/NDF : 39.7/24

Right Out: 28.916 ± 19.527 χ^2/NDF : 41.9/36

Left In: -16.162 ± 11.649 χ^2/NDF : 25.2/22

Left: -16.104 ± 8.126 χ^2/NDF : 64.9/47

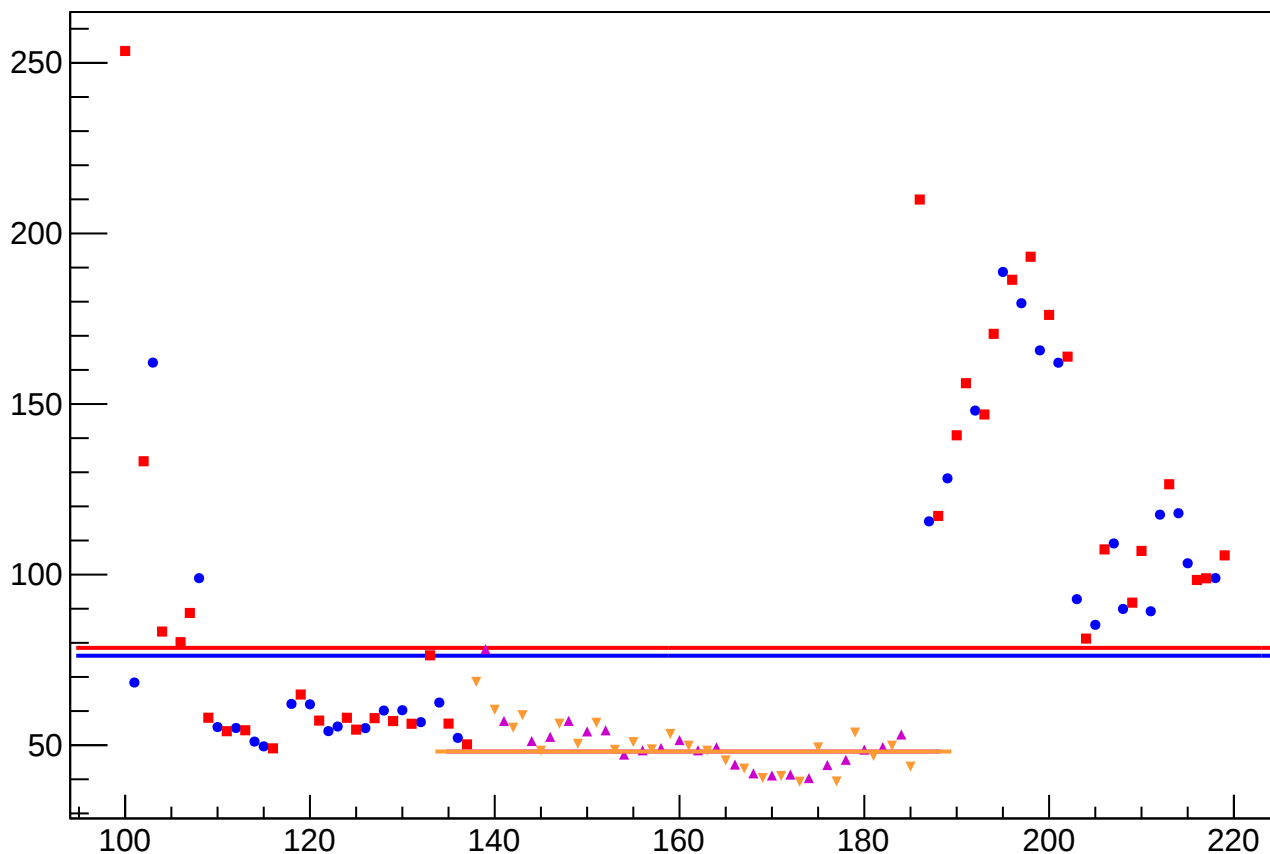
Right: 33.912 ± 13.794 χ^2/NDF : 85.7/69

In: -1.669 ± 9.999 χ^2/NDF : 74.8/55

Out: -4.709 ± 9.806 χ^2/NDF : 85.5/61

All: -3.219 ± 7.001 χ^2/NDF : 160.4/117

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 76.225 $\pm$ 0.014 χ^2 /NDF: 5115661.2/32

Left Out: 48.141 $\pm$ 0.008 χ^2 /NDF: 655250.3/24

Right Out: 78.527 $\pm$ 0.014 χ^2 /NDF: 5909298.8/36

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

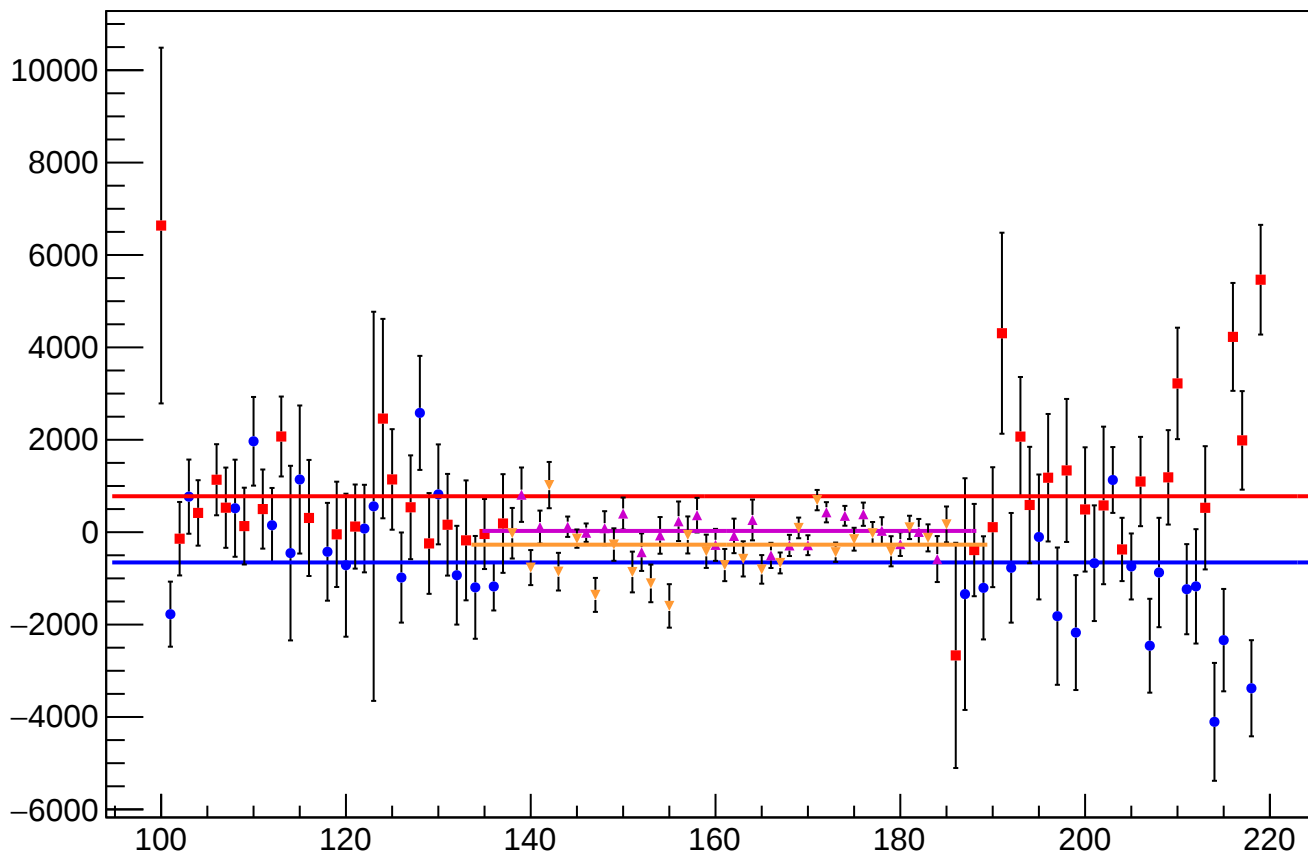
Right: 77.374 $\pm$ 0.010 χ^2 /NDF: 11038882.6/69

In: 55.533 $\pm$ 0.007 χ^2 /NDF: 8751059.7/55

Out: 55.804 $\pm$ 0.007 χ^2 /NDF: 10186110.6/61

All: 55.671 $\pm$ 0.005 χ^2 /NDF: 18937918.8/117

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -654.844 $\pm$ 177.292 χ^2 /NDF: 56.6/32

Left Out: -270.214 $\pm$ 60.177 χ^2 /NDF:70.1/24

Right Out: 777.903 $\pm$ 174.289 χ^2 /NDF: 52.7/36

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

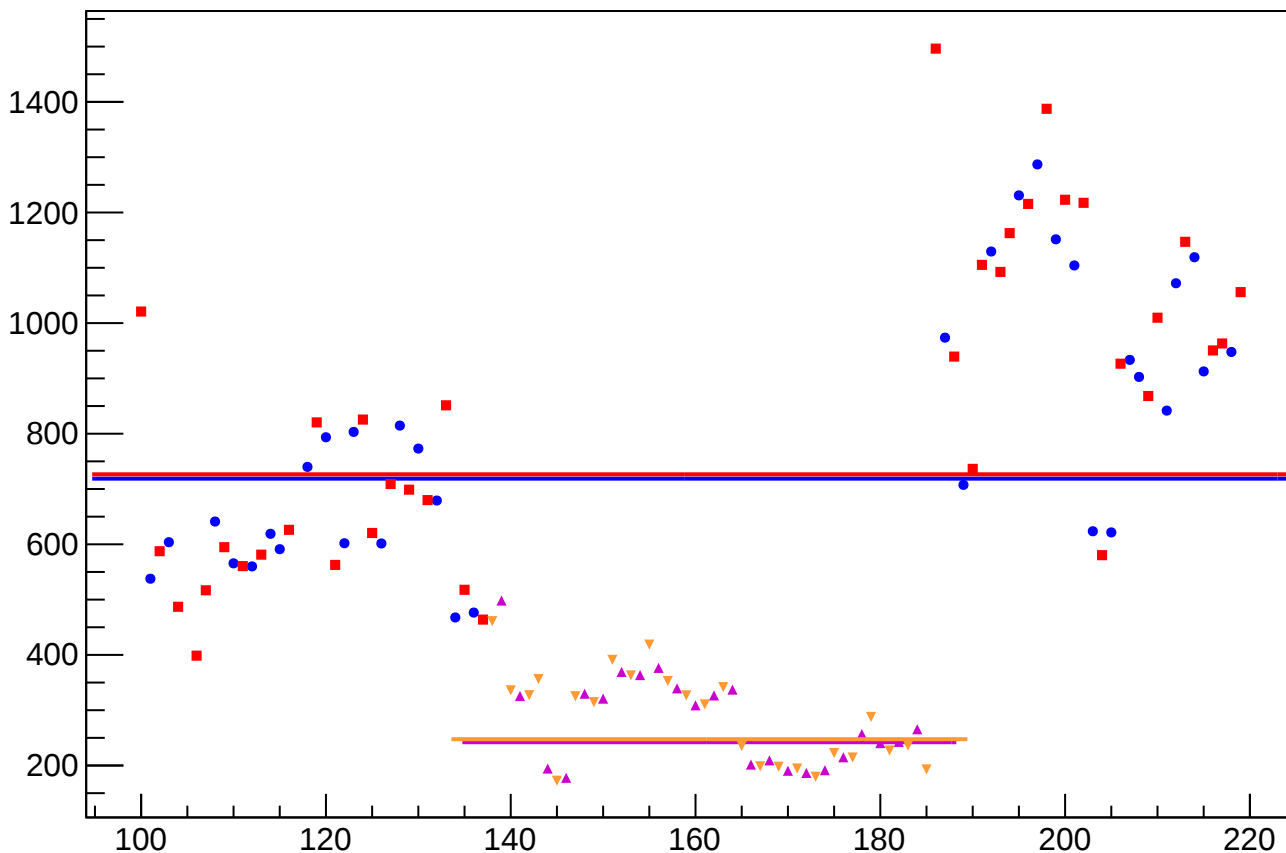
Right: 73.763 $\pm$ 124.289 χ^2 /NDF: 142.5/69

In: -43.728 $\pm$ 57.199 χ^2 /NDF:94.9/55

Out: -158.573 $\pm$ 56.882 χ^2 /NDF:155.1/61

All: -101.469 $\pm$ 40.333 χ^2 /NDF: 252.0/117

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 718.725 $\pm$ 0.125 χ^2 /NDF: 2983759.0/32

Left Out: 247.570 $\pm$ 0.043 χ^2 /NDF: 2780931.0/24

Right Out: 726.586 $\pm$ 0.123 χ^2 /NDF: 4030575.7/36

Left In: 242.117 $\pm$ 0.043 χ^2 /NDF: 2466108.9/22

Left: 244.855 $\pm$ 0.030 χ^2 /NDF: 5255218.1/47

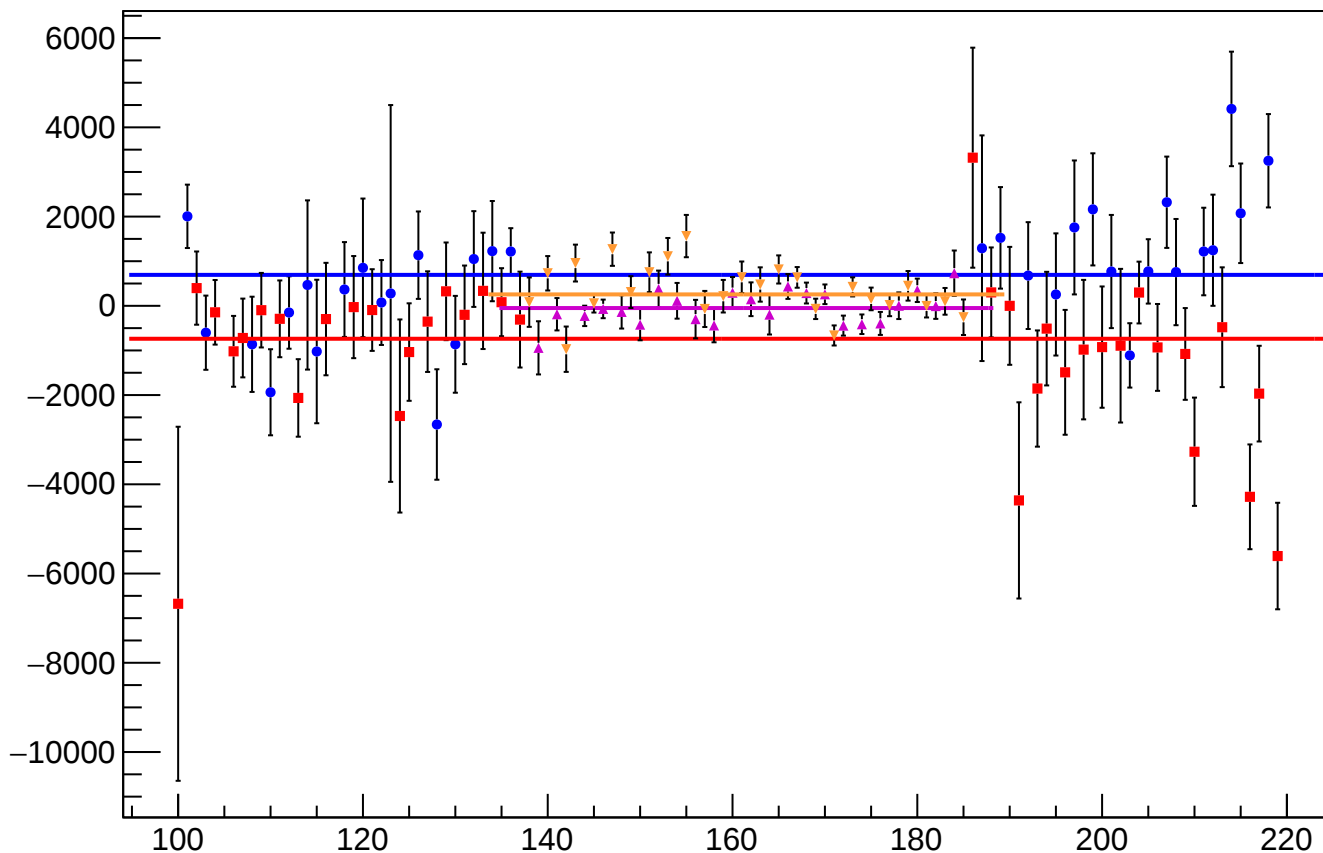
Right: 722.722 $\pm$ 0.088 χ^2 /NDF: 7016334.1/69

In: 291.726 $\pm$ 0.040 χ^2 /NDF: 18399054.8/55

Out: 298.593 $\pm$ 0.040 χ^2 /NDF: 20309638.0/61

All: 295.178 $\pm$ 0.029 χ^2 /NDF: 38723186.9/121

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 693.689 $\pm$ 178.859 χ^2/NDF : 56.9/32

Left Out: 255.995 $\pm$ 61.418 χ^2/NDF : 63.6/24

Right Out: -738.155 $\pm$ 176.107 χ^2/NDF : 54.9/36

Left In: -49.832 $\pm$ 61.781 χ^2/NDF : 27.5/22

Left: 103.982 $\pm$ 43.557 χ^2/NDF : 103.4/47

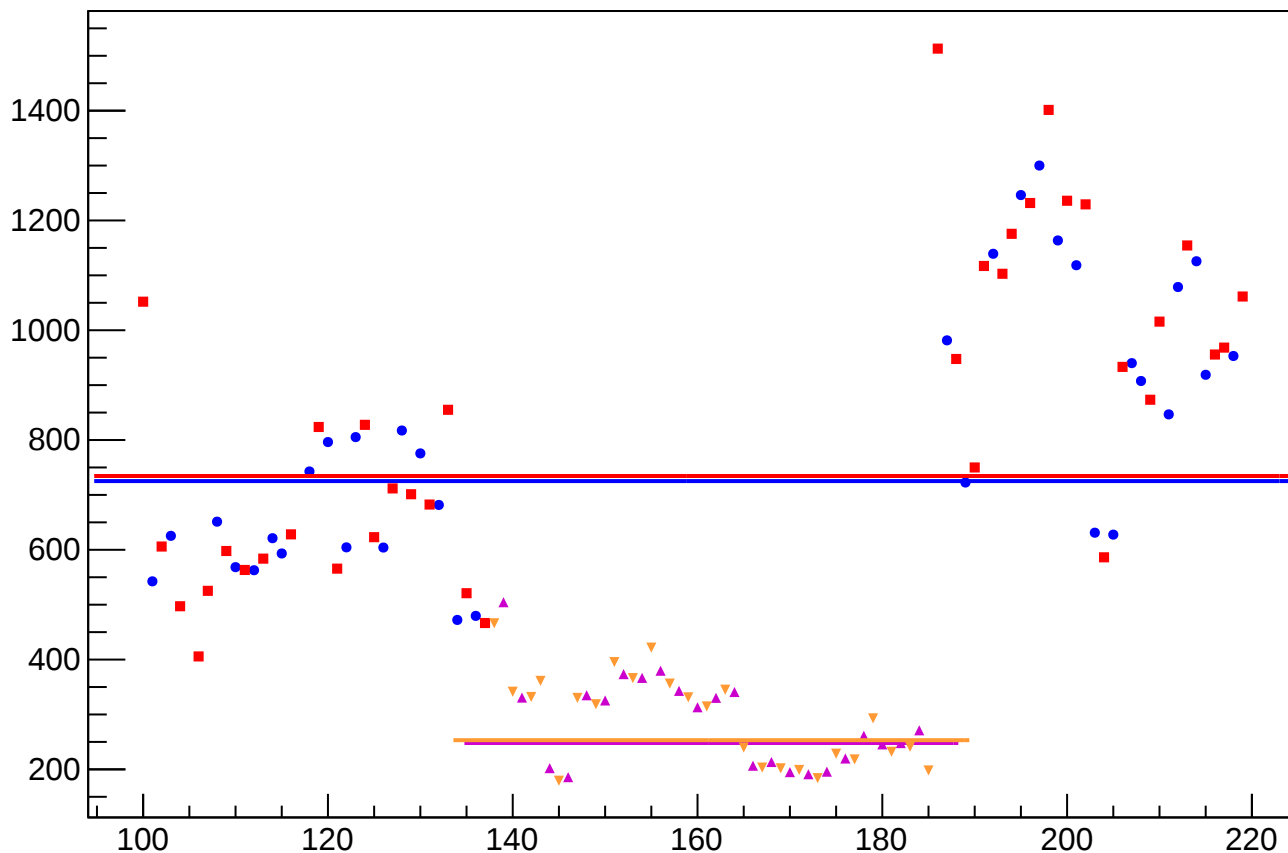
Right: -33.335 $\pm$ 125.488 χ^2/NDF : 144.3/69

In: 29.424 $\pm$ 58.396 χ^2/NDF : 99.8/55

Out: 148.188 $\pm$ 57.993 χ^2/NDF : 146.9/61

All: 89.217 $\pm$ 41.149 χ^2/NDF : 248.8/117

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 725.186+/-0.126 χ^2/NDF : 2978397.5/32

Left Out: 253.137+/-0.043 χ^2/NDF : 2665975.8/24

Right Out: 734.462+/-0.125 χ^2/NDF : 3984694.5/36

Left In: 248.069+/-0.044 χ^2/NDF : 2343295.0/22

Left: 250.618+/-0.031 χ^2/NDF : 5016040.5/47

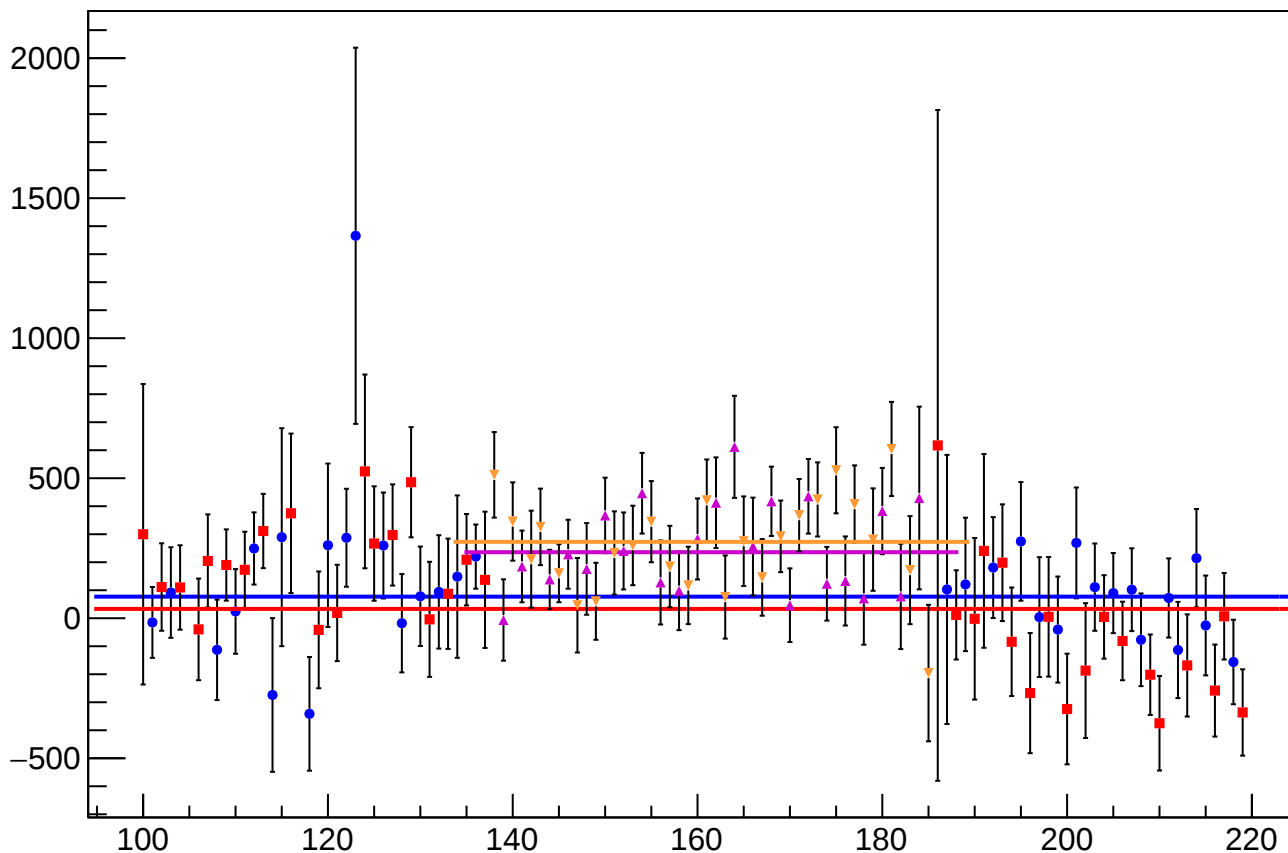
Right: 729.896+/-0.089 χ^2/NDF : 6965823.5/69

In: 298.927+/-0.041 χ^2/NDF : 18036422.2/55

Out: 305.332+/-0.041 χ^2/NDF : 19970703.0/61

All: 302.152+/-0.029 χ^2/NDF : 38019240.4/11

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 77.080+/-30.929 χ^2/NDF : 26.3/32

Left Out: 272.684+/-29.221 χ^2/NDF : 27.4/24

Right Out: 33.279+/-29.924 χ^2/NDF : 49.8/36

Left In: 235.801+/-30.232 χ^2/NDF : 24.6/22

Left: 254.870+/-21.011 χ^2/NDF : 52.8/47

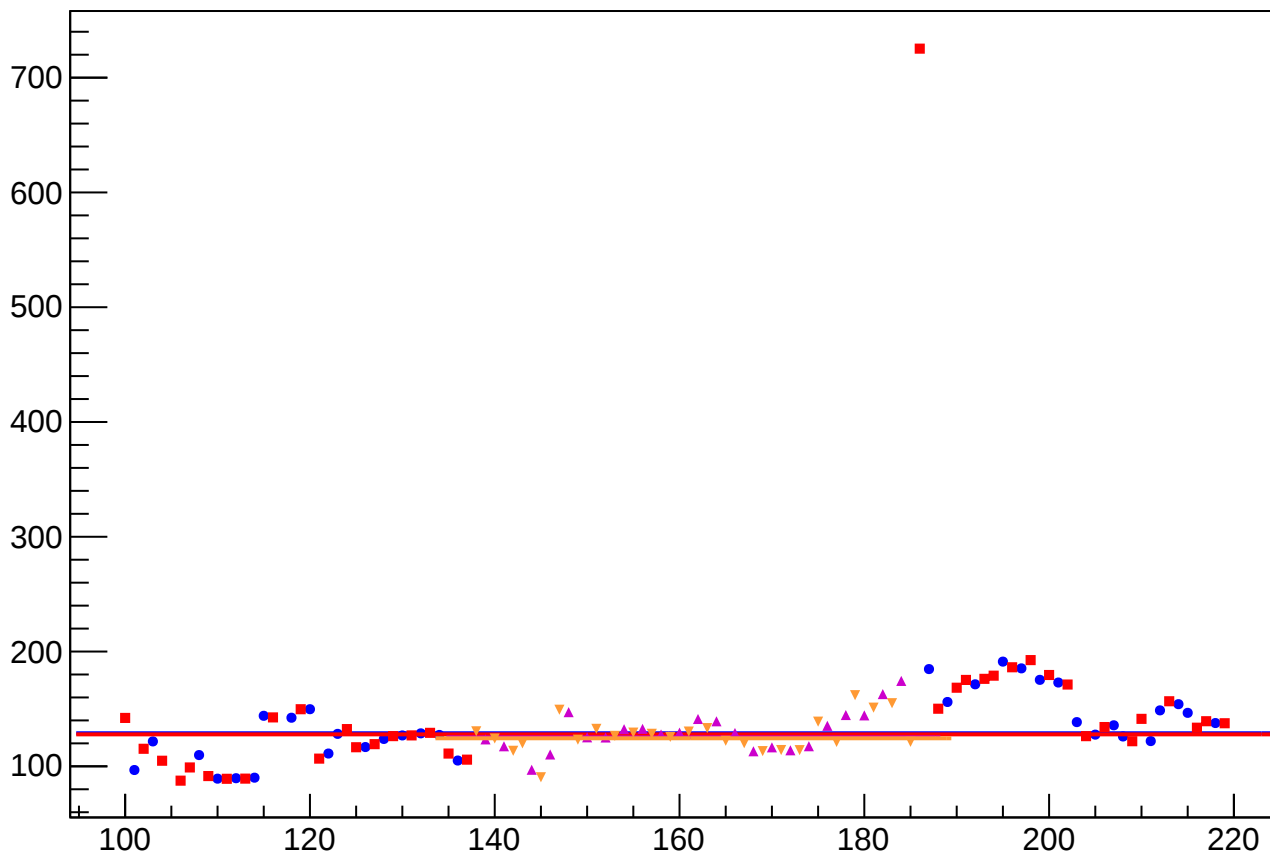
Right: 54.456+/-21.506 χ^2/NDF : 77.2/69

In: 158.250+/-21.619 χ^2/NDF : 64.4/55

Out: 155.825+/-20.906 χ^2/NDF : 110.0/61

All: 156.997+/-15.029 χ^2/NDF : 174.4/117

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 128.805 $\pm$ 0.022 χ^2 /NDF: 1466295.7/32

Left Out: 124.429 $\pm$ 0.021 χ^2 /NDF: 539731.8/24

Right Out: 127.843 $\pm$ 0.021 χ^2 /NDF: 2307916.8/36

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

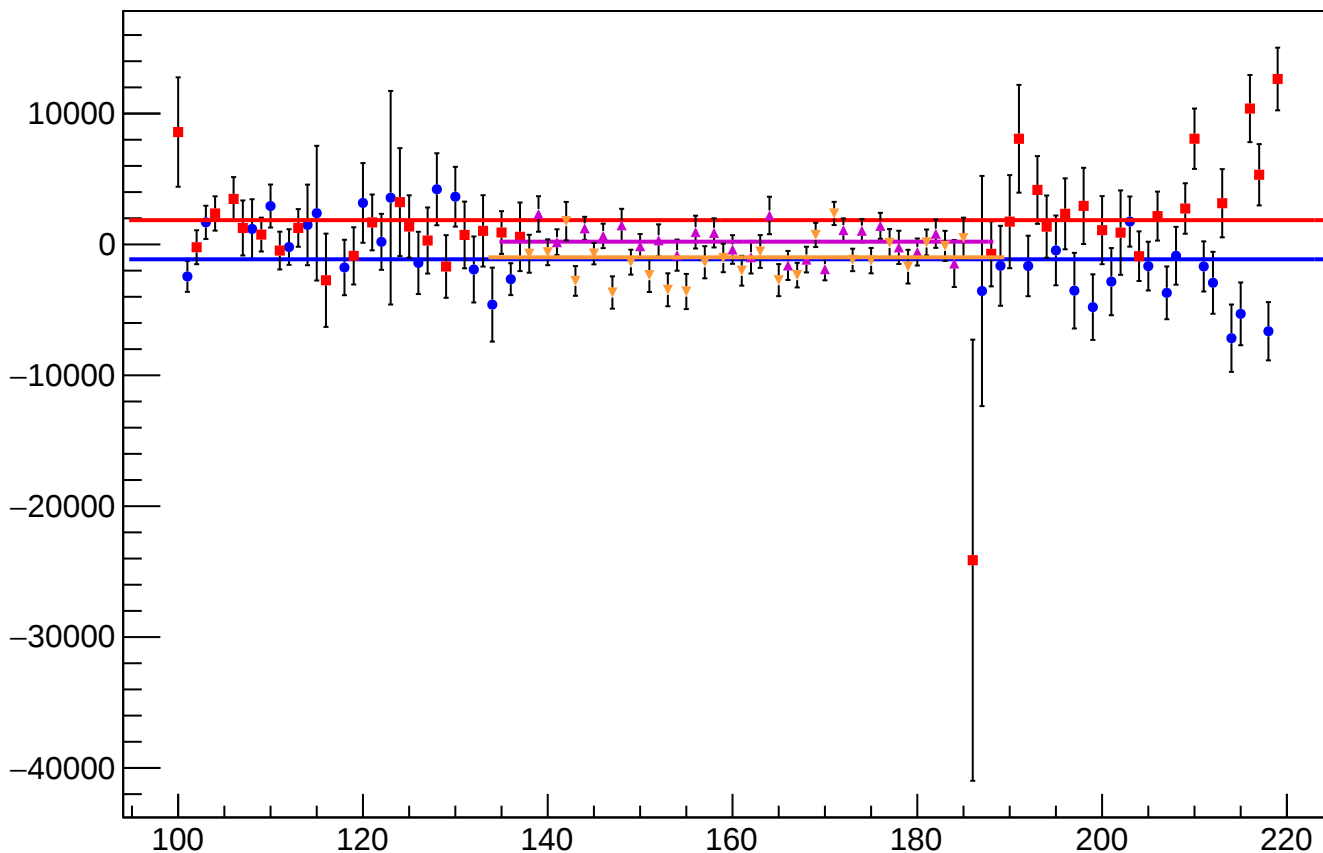
Right: 128.308 $\pm$ 0.015 χ^2 /NDF: 3775211.8/69

In: 126.964 $\pm$ 0.015 χ^2 /NDF: 1981537.6/55

Out: 126.095 $\pm$ 0.015 χ^2 /NDF: 2860974.4/61

All: 126.515 $\pm$ 0.011 χ^2 /NDF: 4844180.6/117

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -1133.881 $\pm$ 365.699 χ^2/NDF : 51.9/32

Left Out: -982.839 $\pm$ 218.021 χ^2/NDF : 47.2/24

Right Out: 1856.708 $\pm$ 352.031 χ^2/NDF : 66.9/36

Left In: 211.420 $\pm$ 223.296 χ^2/NDF : 25.7/22

Left: -399.983 $\pm$ 155.996 χ^2/NDF : 87.5/47

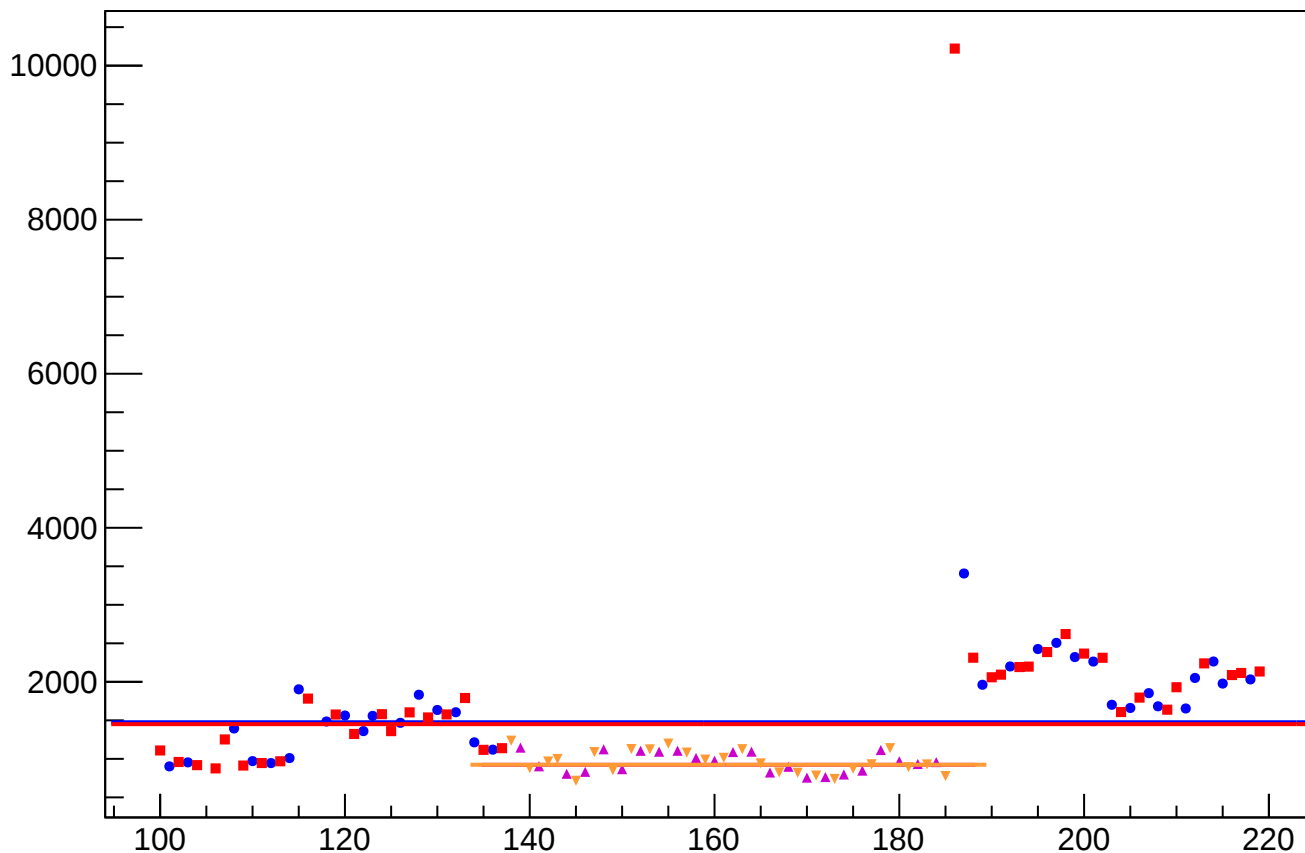
Right: 418.347 $\pm$ 253.618 χ^2/NDF : 153.5/69

In: -153.936 $\pm$ 190.578 χ^2/NDF : 87.4/55

Out: -195.636 $\pm$ 185.353 χ^2/NDF : 161.2/61

All: -175.366 $\pm$ 132.873 χ^2/NDF : 248.6/117

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1475.241+/-0.259 χ^2/NDF : 3548411.2/32

Left Out: 923.586+/-0.154 χ^2/NDF : 842758.6/24

Right Out: 1450.559+/-0.249 χ^2/NDF : 4914742.8/36

Left In: 922.245+/-0.158 χ^2/NDF : 634712.1/22

Left: 922.932+/-0.110 χ^2/NDF : 1477507.6/47

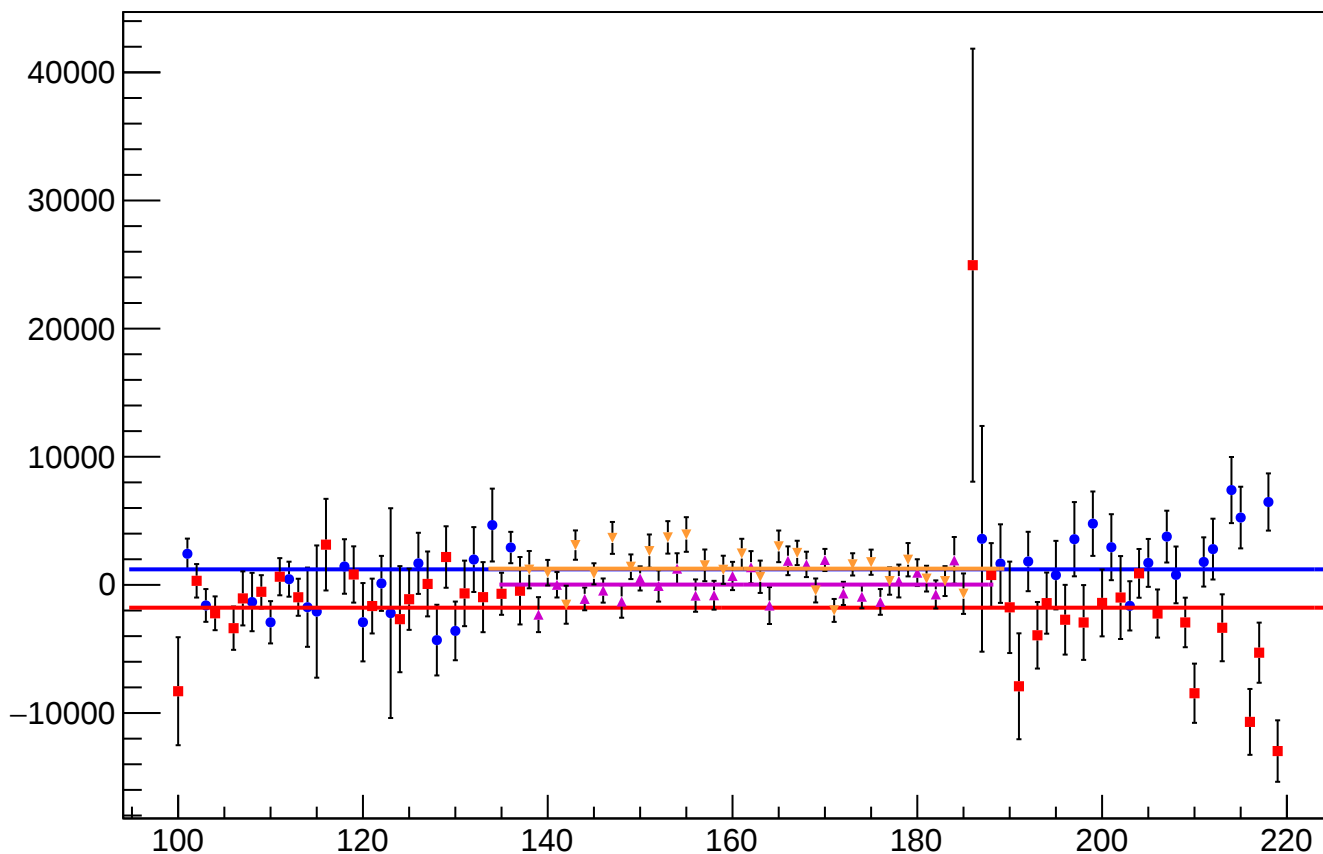
Right: 1462.430+/-0.179 χ^2/NDF : 8467882.9/69

In: 1072.427+/-0.135 χ^2/NDF : 7514378.8/55

Out: 1069.678+/-0.131 χ^2/NDF : 8996766.6/61

All: 1071.014+/-0.094 χ^2/NDF : 16511359.4/111

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 1212.278+/-367.214 χ^2/NDF : 51.1/32

Left Out: 1267.344+/-220.133 χ^2/NDF : 44.9/24

Right Out: -1779.475+/-353.631 χ^2/NDF : 71.7/36

Left In: 23.478+/-225.490 χ^2/NDF : 27.2/22

Left: 660.362+/-157.518 χ^2/NDF : 87.7/47

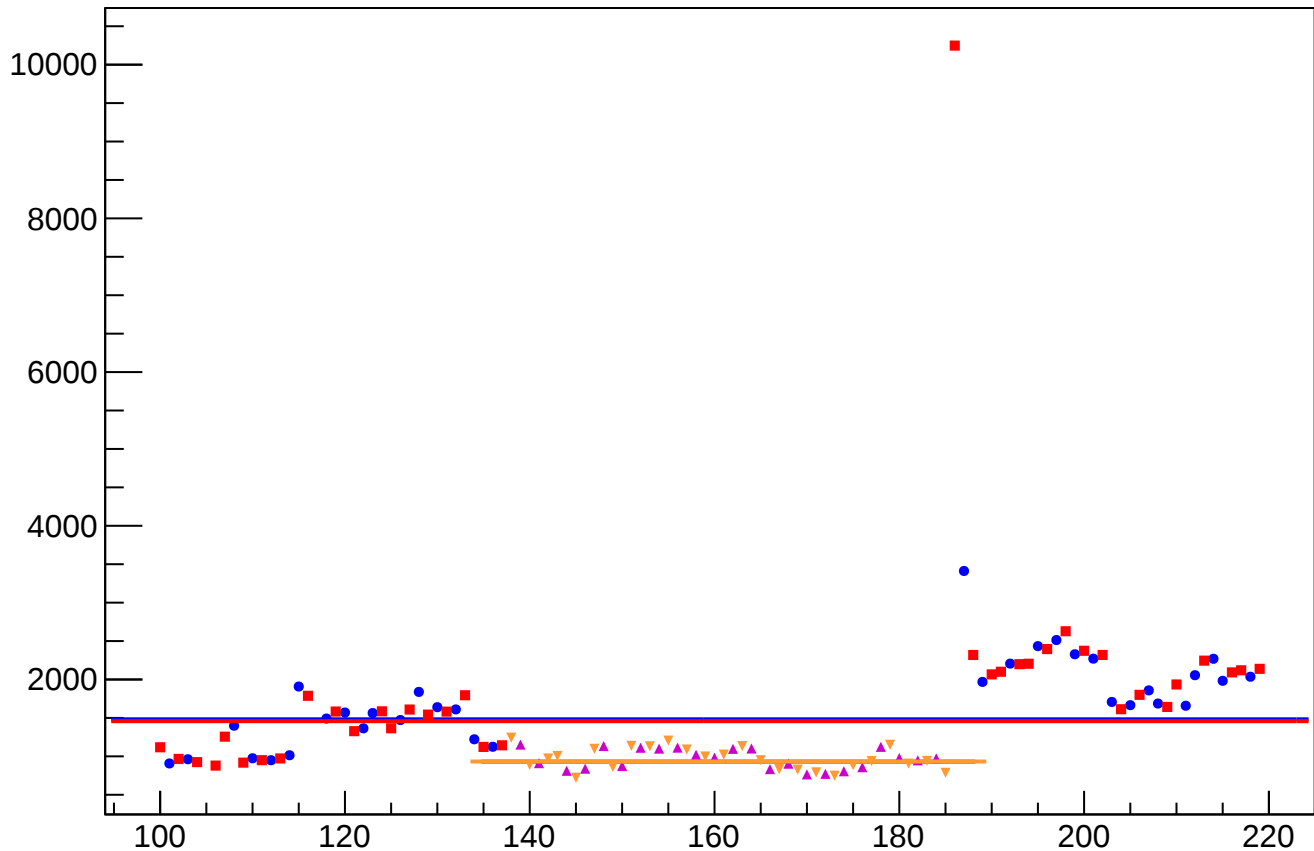
Right: -339.951+/-254.721 χ^2/NDF : 157.3/69

In: 348.993+/-192.154 χ^2/NDF : 85.9/55

Out: 416.433+/-186.883 χ^2/NDF : 170.1/61

All: 383.651+/-133.971 χ^2/NDF : 256.1/117

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1481.936+/-0.260 χ^2/NDF : 3524070.2/32

Left Out: 932.764+/-0.156 χ^2/NDF : 829798.4/24

Right Out: 1457.679+/-0.250 χ^2/NDF : 4882896.7/36

Left In: 931.493+/-0.159 χ^2/NDF : 624436.4/22

Left: 932.144+/-0.111 χ^2/NDF : 1454267.3/47

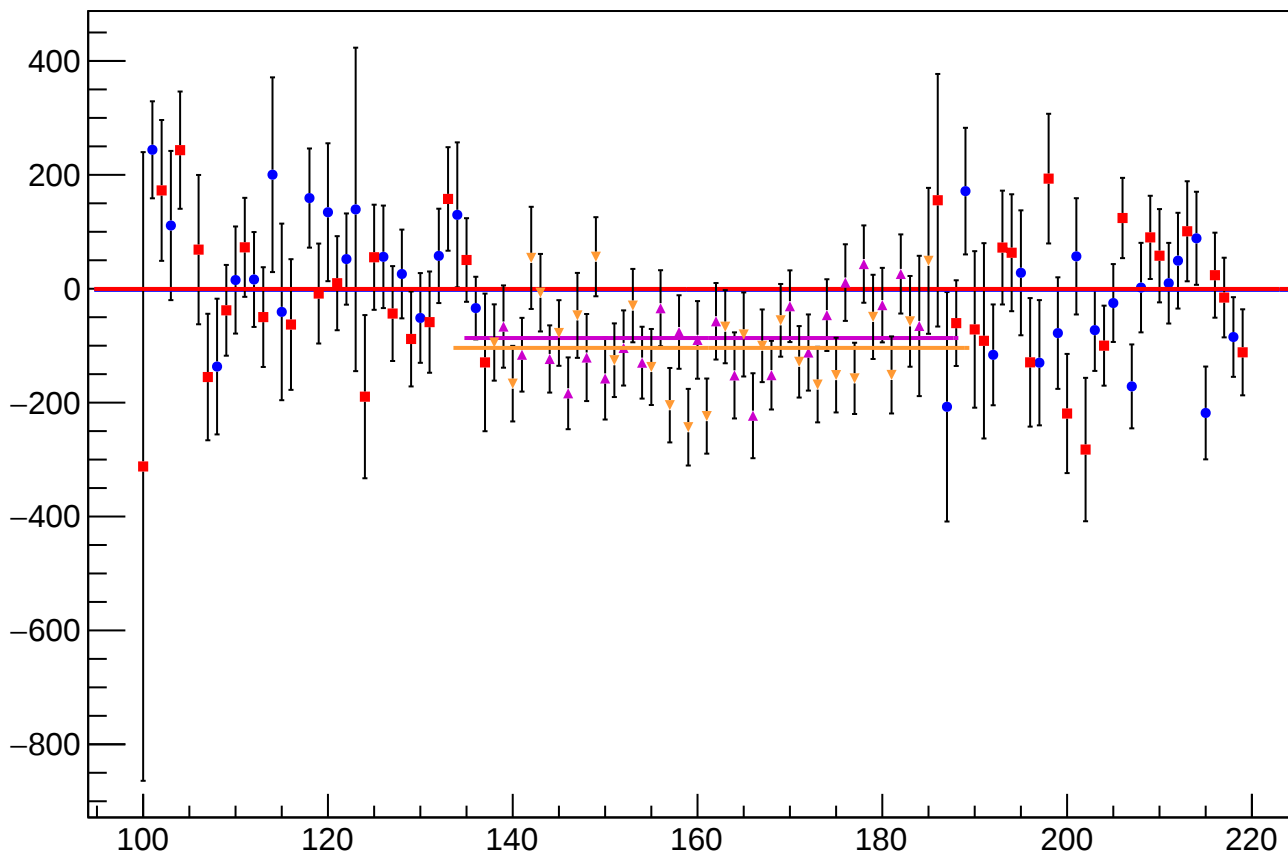
Right: 1469.350+/-0.180 χ^2/NDF : 8411494.7/69

In: 1082.214+/-0.136 χ^2/NDF : 7411846.1/55

Out: 1079.361+/-0.132 χ^2/NDF : 8888652.0/61

All: 1080.748+/-0.095 χ^2/NDF : 16300724.7/131

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: -1.939 ± 15.514 $\chi^2/\text{NDF}: 44.1/32$

Left Out: -103.899 ± 13.642 $\chi^2/\text{NDF}: 30.0/24$

Right Out: -0.356 ± 15.343 $\chi^2/\text{NDF}: 47.2/36$

Left In: -86.542 ± 14.120 $\chi^2/\text{NDF}: 21.4/22$

Left: -95.520 ± 9.811 $\chi^2/\text{NDF}: 52.1/47$

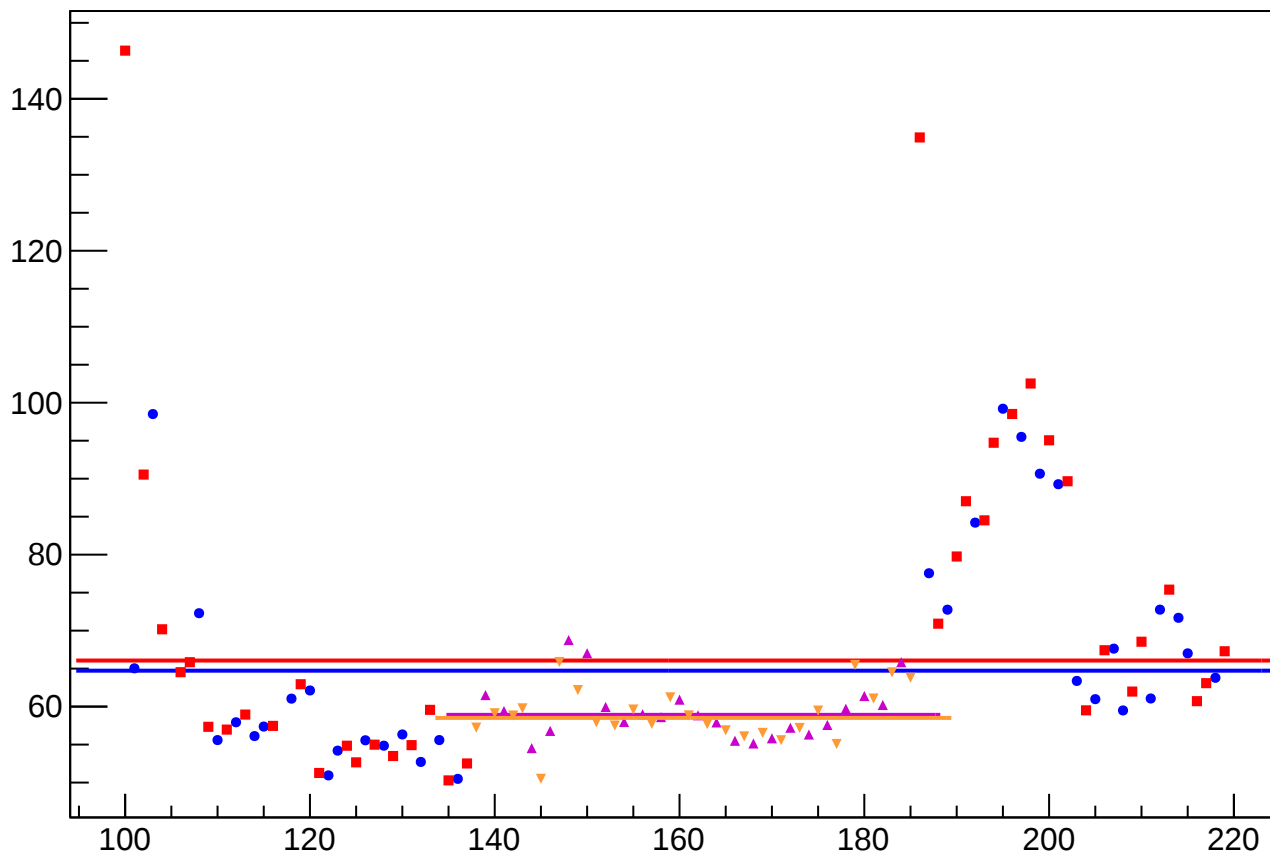
Right: -1.139 ± 10.909 $\chi^2/\text{NDF}: 91.3/69$

In: -48.212 ± 10.442 $\chi^2/\text{NDF}: 81.7/55$

Out: -58.181 ± 10.195 $\chi^2/\text{NDF}: 102.6/61$

All: -53.316 ± 7.295 $\chi^2/\text{NDF}: 184.8/117$

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.728 $\pm$ 0.011 χ^2 /NDF: 1295372.8/32

Left Out: 58.513 $\pm$ 0.010 χ^2 /NDF:123221.6/24

Right Out: 66.064 $\pm$ 0.011 χ^2 /NDF: 1687757.7/36

Left In: 58.913 $\pm$ 0.010 χ^2 /NDF:109968.0/22

Left: 58.706 $\pm$ 0.007 χ^2 /NDF: 234021.7/47

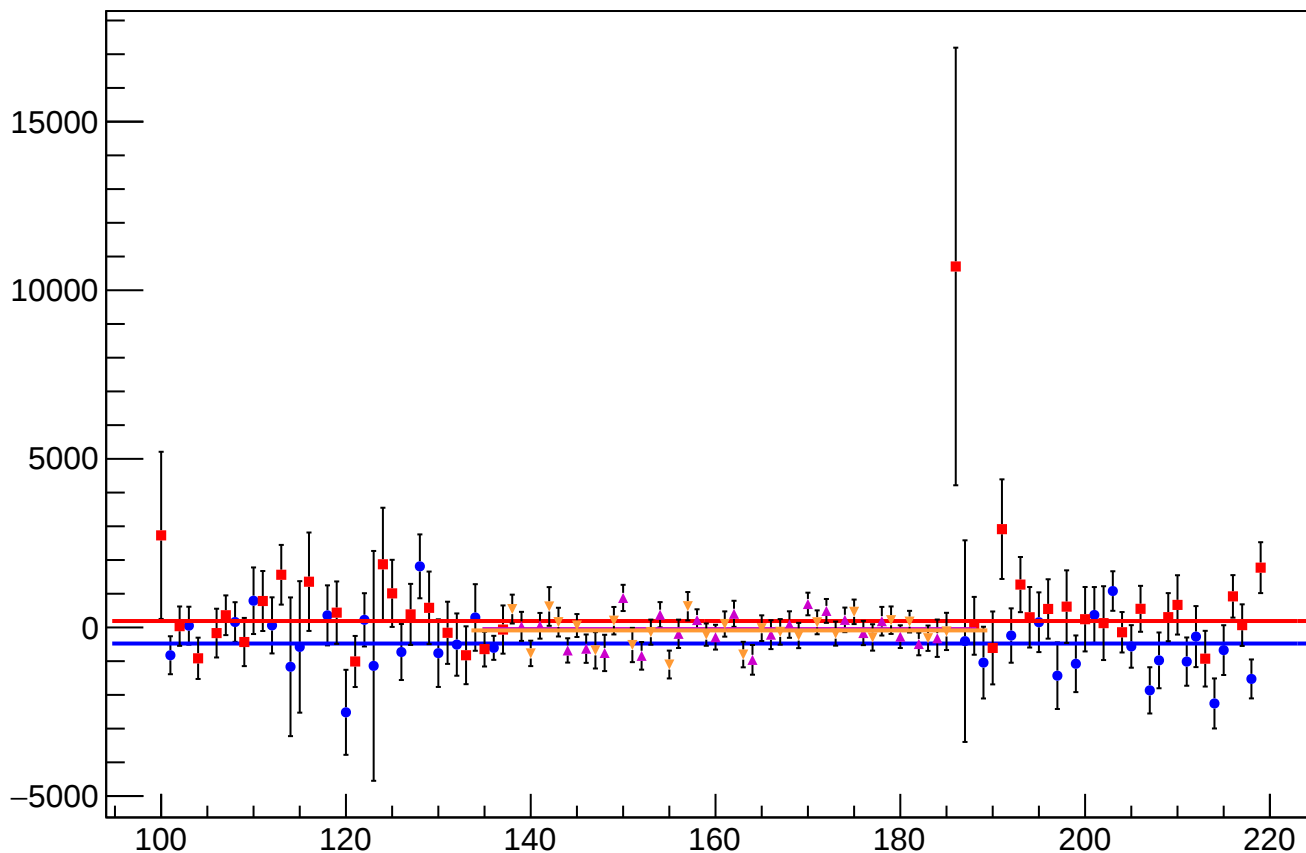
Right: 65.403 $\pm$ 0.008 χ^2 /NDF: 2990627.5/69

In: 61.548 $\pm$ 0.007 χ^2 /NDF:1558994.0/55

Out: 61.847 $\pm$ 0.007 χ^2 /NDF:2081512.0/61

All: 61.701 $\pm$ 0.005 χ^2 /NDF: 3641346.7/117

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -476.791 ± 133.697 $\chi^2/\text{NDF}: 40.3/32$

Left Out: -87.459 ± 78.556 $\chi^2/\text{NDF}: 27.7/24$

Right Out: 190.737 ± 133.374 $\chi^2/\text{NDF}: 34.9/36$

Left In: -48.742 ± 80.548 $\chi^2/\text{NDF}: 35.3/22$

Left: -68.585 ± 56.239 $\chi^2/\text{NDF}: 63.2/47$

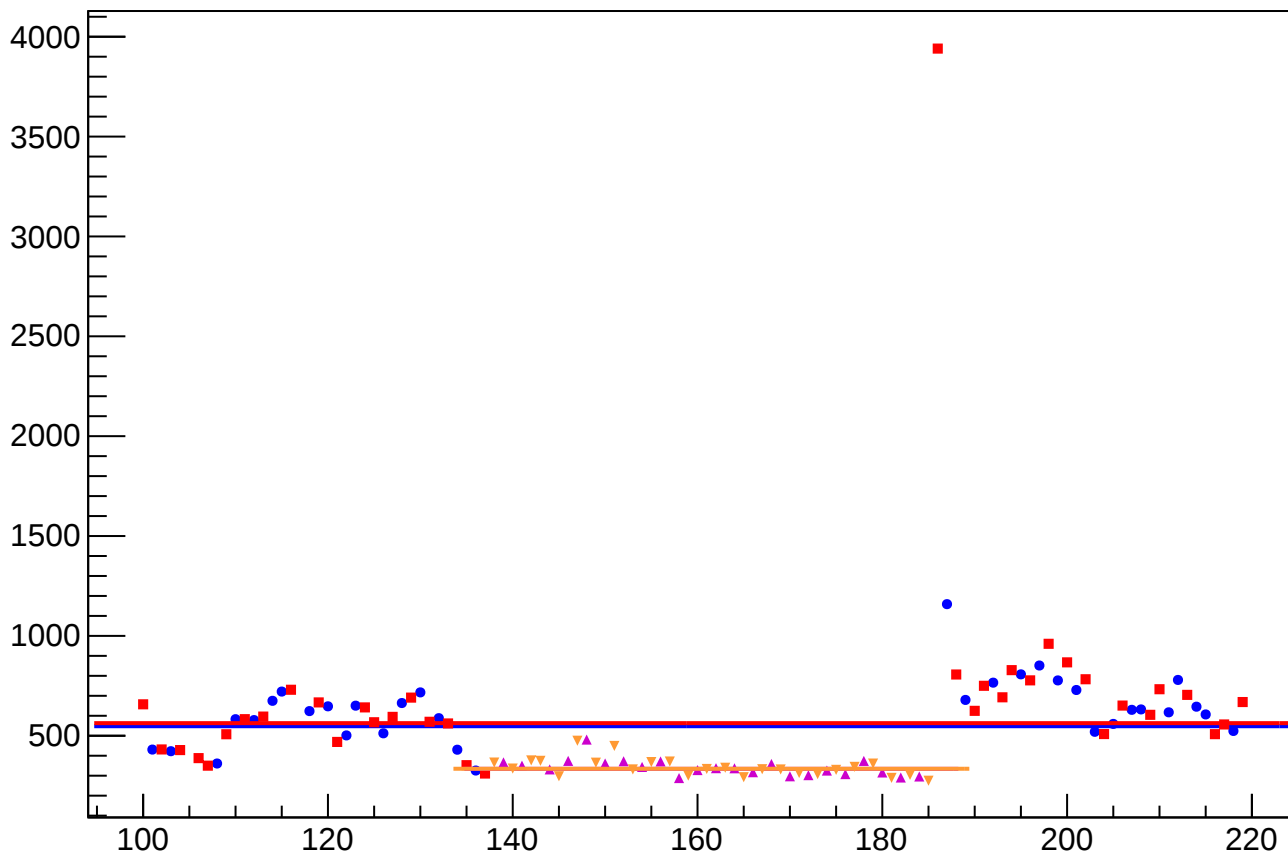
Right: -142.220 ± 94.424 $\chi^2/\text{NDF}: 87.7/69$

In: -162.733 ± 68.994 $\chi^2/\text{NDF}: 83.2/55$

Out: -15.806 ± 67.688 $\chi^2/\text{NDF}: 65.9/61$

All: -87.866 ± 48.318 $\chi^2/\text{NDF}: 151.4/117$

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 547.714+/-0.095 χ^2/NDF : 2472732.0/32

Left Out: 334.749+/-0.056 χ^2/NDF : 491370.4/24

Right Out: 563.125+/-0.094 χ^2/NDF : 3181943.9/36

Left In: 334.147+/-0.057 χ^2/NDF : 397200.6/22

Left: 334.455+/-0.040 χ^2/NDF : 888628.3/47

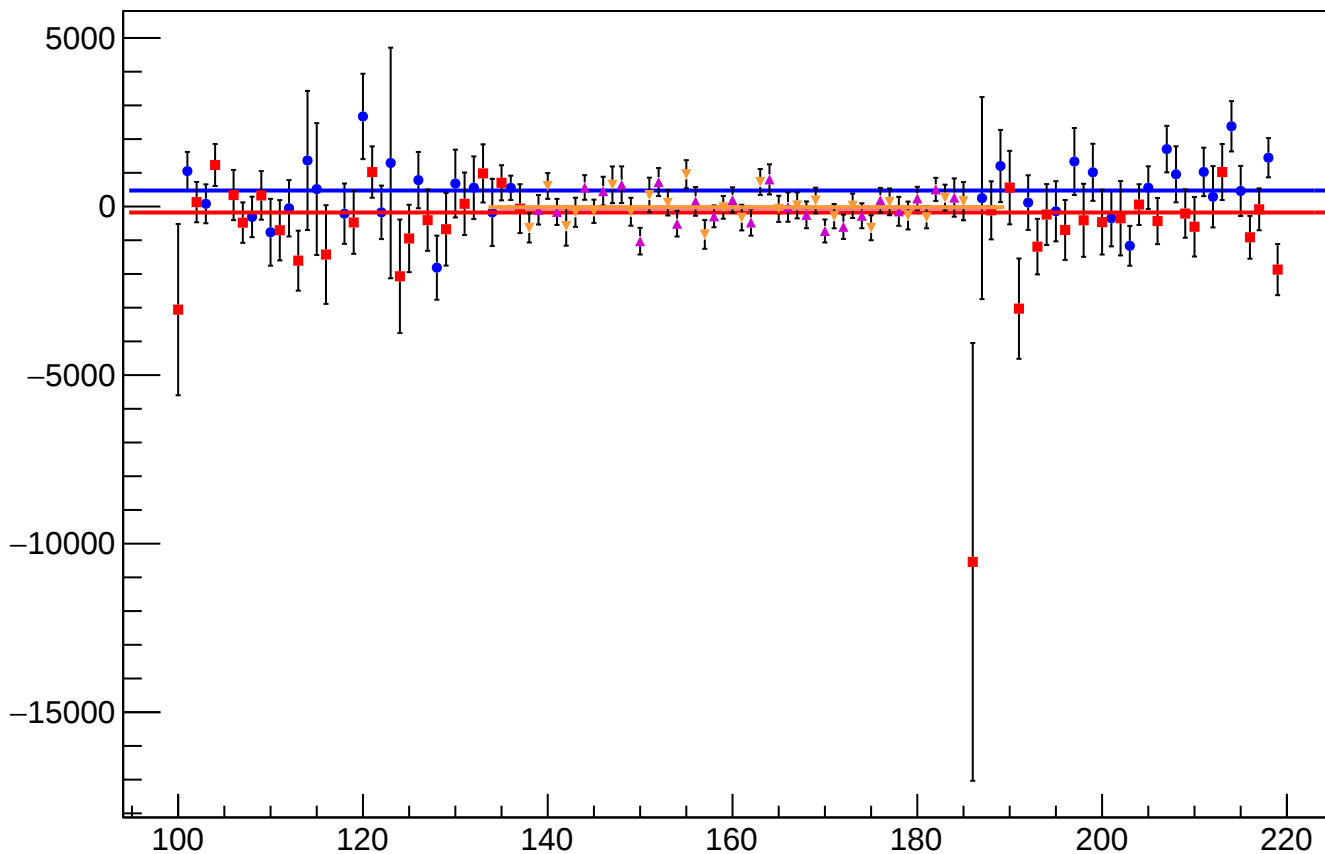
Right: 555.439+/-0.067 χ^2/NDF : 5667994.7/69

In: 391.021+/-0.049 χ^2/NDF : 6614263.8/55

Out: 393.570+/-0.048 χ^2/NDF : 8026952.2/61

All: 392.320+/-0.034 χ^2/NDF : 14642607.2/117

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 474.902 $\pm$ 134.940 χ^2 /NDF: 40.5/32

Left Out: -20.895 $\pm$ 79.812 χ^2 /NDF:27.2/24

Right Out: -176.972 $\pm$ 134.650 χ^2 /NDF: 38.7/36

Left In: -31.800 $\pm$ 81.839 χ^2 /NDF:34.0/22

Left: -26.211 $\pm$ 57.139 χ^2 /NDF: 61.3/47

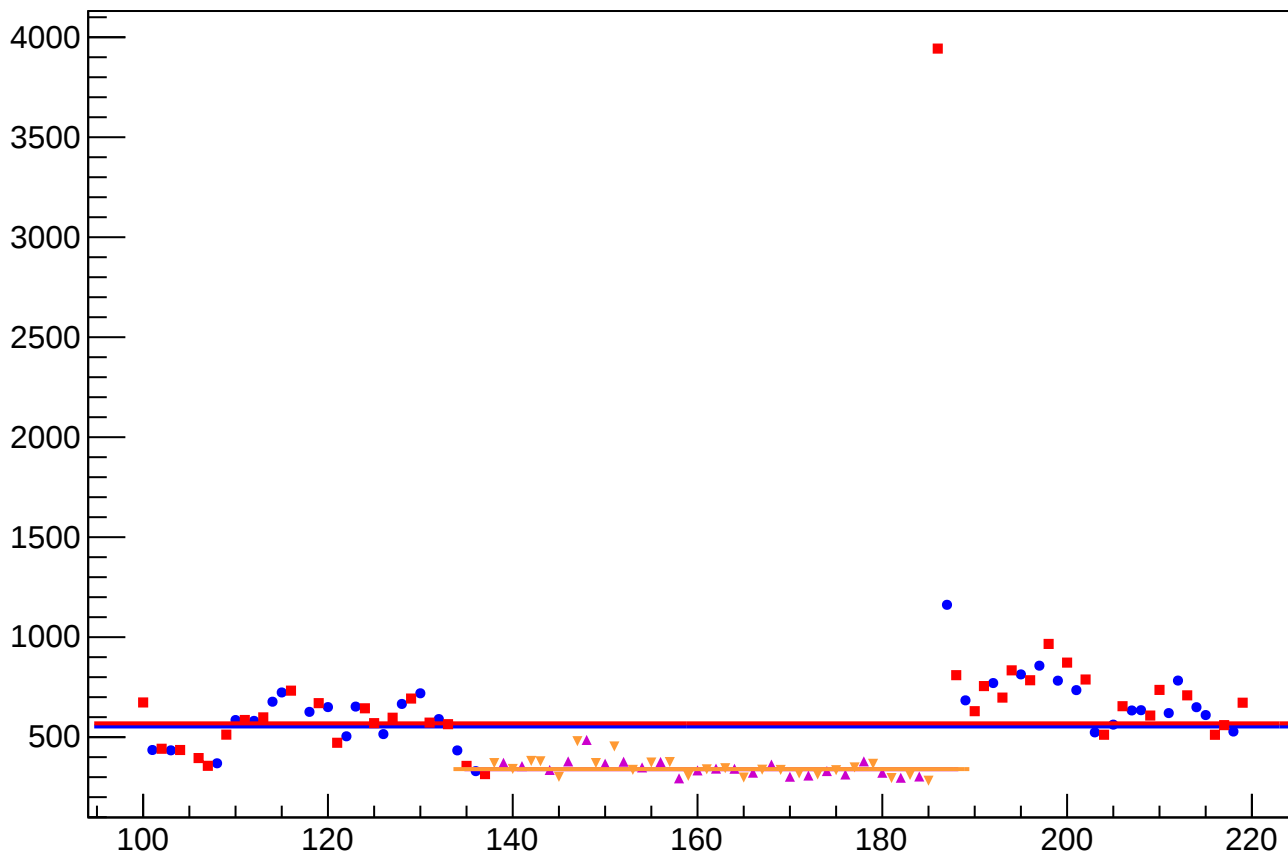
Right: 148.265 $\pm$ 95.314 χ^2 /NDF: 90.9/69

In: 104.459 $\pm$ 69.976 χ^2 /NDF:84.9/55

Out: -61.474 $\pm$ 68.657 χ^2 /NDF:66.9/61

All: 19.915 $\pm$ 49.007 χ^2 /NDF: 154.6/117

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 553.410 $\pm$ 0.095 χ^2 /NDF: 2404311.1/32

Left Out: 340.238 $\pm$ 0.056 χ^2 /NDF: 468863.6/24

Right Out: 569.046 $\pm$ 0.095 χ^2 /NDF: 3109690.3/36

Left In: 339.621 $\pm$ 0.058 χ^2 /NDF: 379808.1/22

Left: 339.937 $\pm$ 0.040 χ^2 /NDF: 848729.8/47

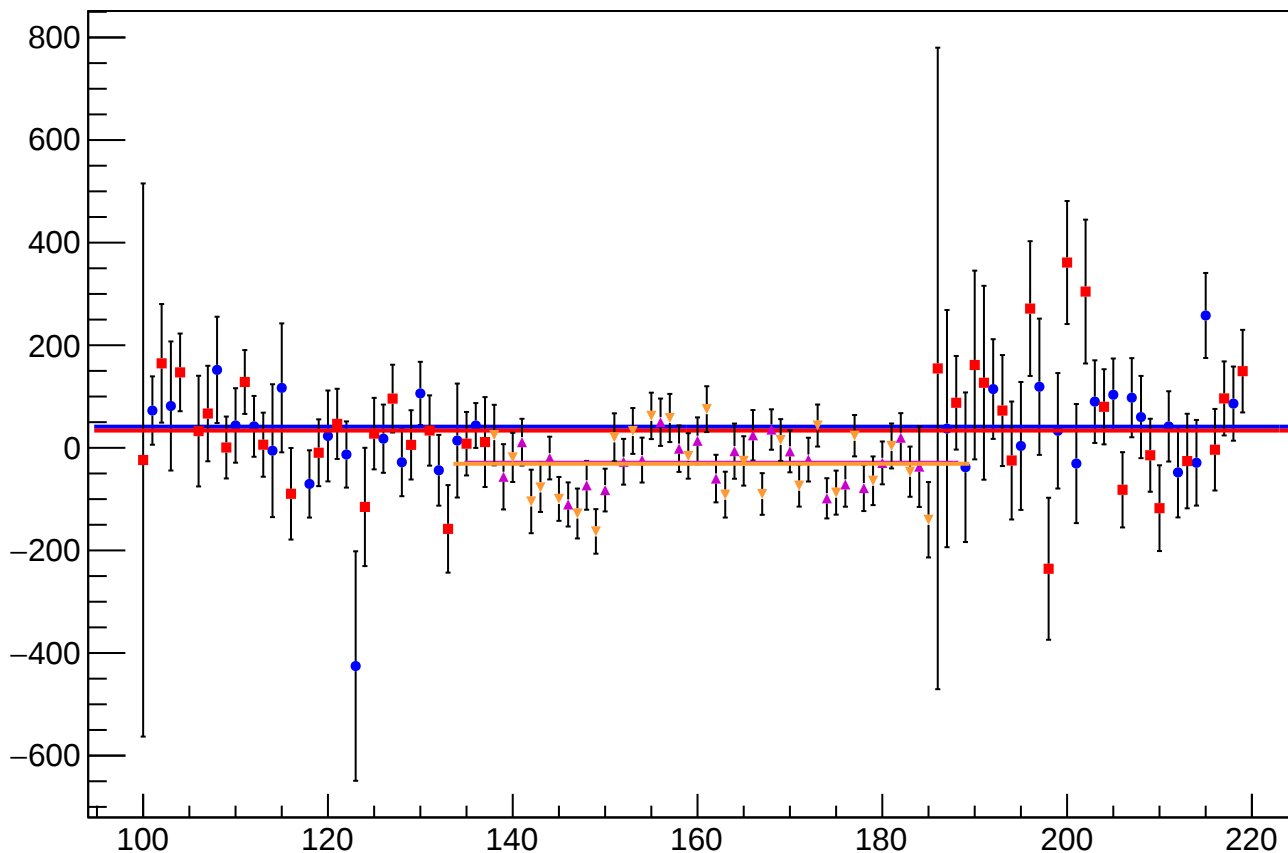
Right: 561.245 $\pm$ 0.067 χ^2 /NDF: 5527456.2/69

In: 397.112 $\pm$ 0.049 χ^2 /NDF: 6454307.9/55

Out: 399.725 $\pm$ 0.049 χ^2 /NDF: 7852157.8/61

All: 398.443 $\pm$ 0.035 χ^2 /NDF: 14307887.3/117

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 41.245 $\pm$ 14.033 χ^2 /NDF: 26.2/32

Left Out: -31.063 $\pm$ 9.170 χ^2 /NDF:52.6/24

Right Out: 33.631 $\pm$ 13.873 χ^2 /NDF: 46.7/36

Left In: -29.055 $\pm$ 9.449 χ^2 /NDF:22.4/22

Left: -30.089 $\pm$ 6.581 χ^2 /NDF: 75.1/47

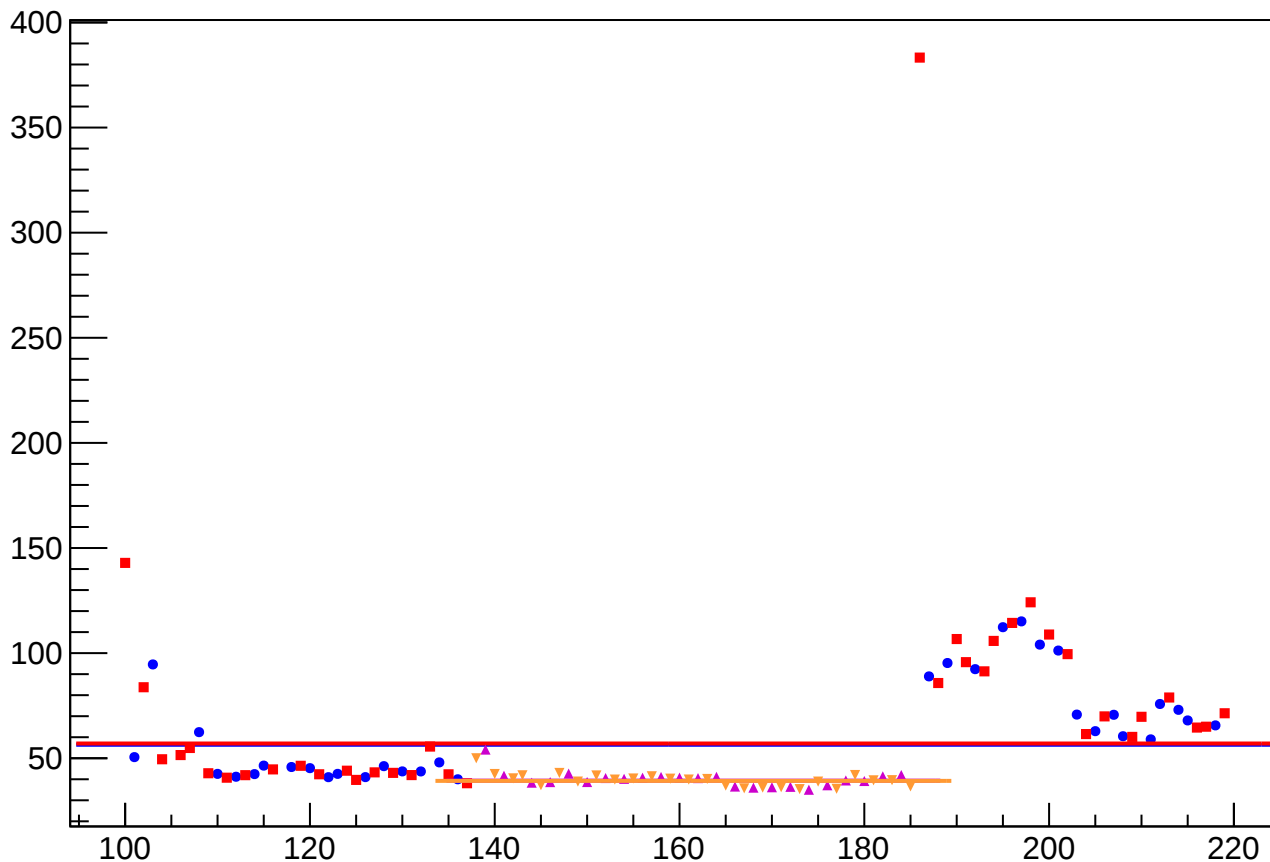
Right: 37.394 $\pm$ 9.866 χ^2 /NDF: 73.1/69

In: -7.123 $\pm$ 7.838 χ^2 /NDF:66.0/55

Out: -11.392 $\pm$ 7.650 χ^2 /NDF:114.4/61

All: -9.310 $\pm$ 5.475 χ^2 /NDF: 180.6/117

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 56.410 $\pm$ 0.010 χ^2 /NDF: 3562278.5/32

Left Out: 39.235 $\pm$ 0.006 χ^2 /NDF: 201960.7/24

Right Out: 57.008 $\pm$ 0.010 χ^2 /NDF: 4634800.3/36

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

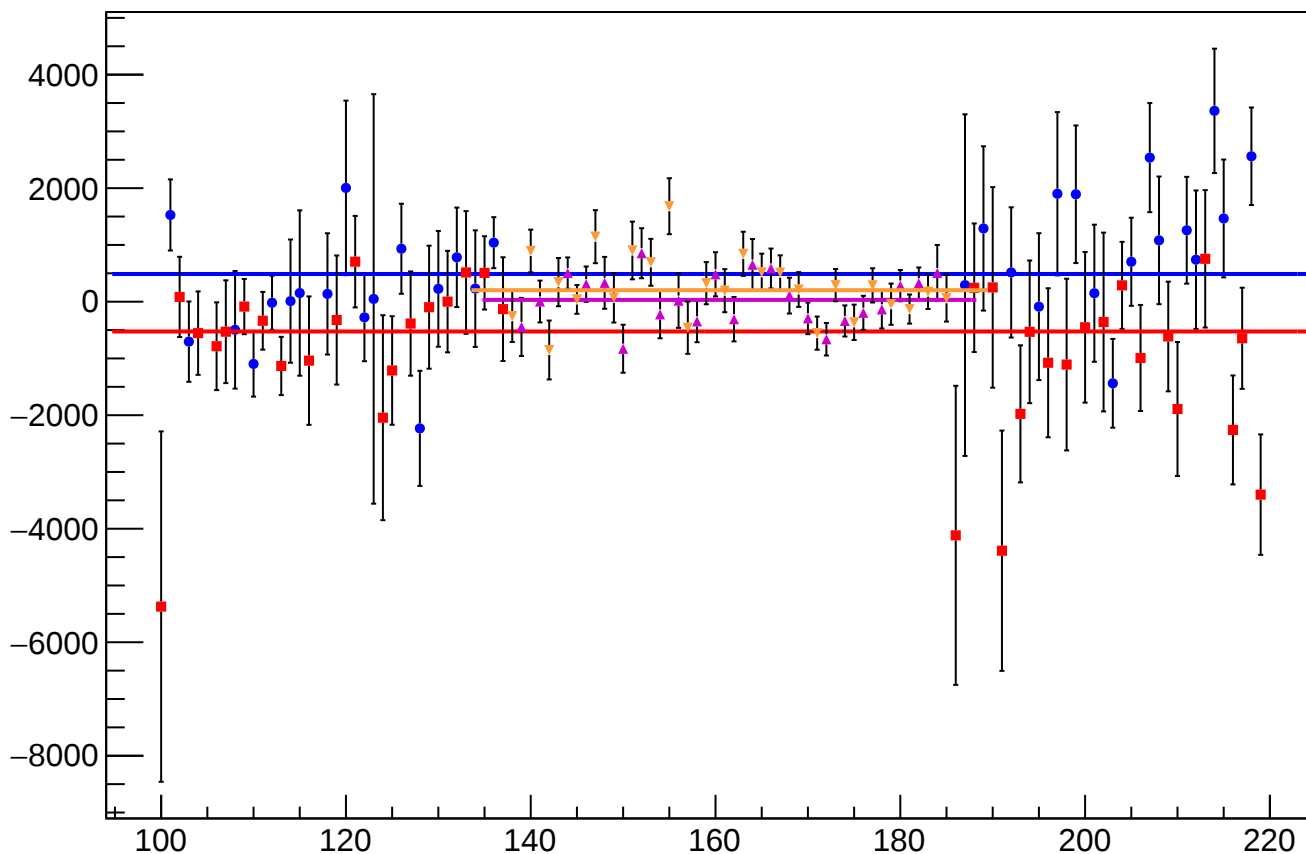
Right: 56.713 $\pm$ 0.007 χ^2 /NDF: 8198913.3/69

In: 44.664 $\pm$ 0.006 χ^2 /NDF: 5814552.0/55

Out: 44.639 $\pm$ 0.005 χ^2 /NDF: 7121252.8/61

All: 44.651 $\pm$ 0.004 χ^2 /NDF: 12935815.6/117

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 487.713+/-154.557 χ^2/NDF : 54.9/32

Left Out: 202.369+/-70.426 χ^2/NDF : 44.8/24

Right Out: -524.734+/-150.249 χ^2/NDF : 35.8/36

Left In: 31.548+/-72.100 χ^2/NDF : 33.4/22

Left: 118.965+/-50.380 χ^2/NDF : 81.1/47

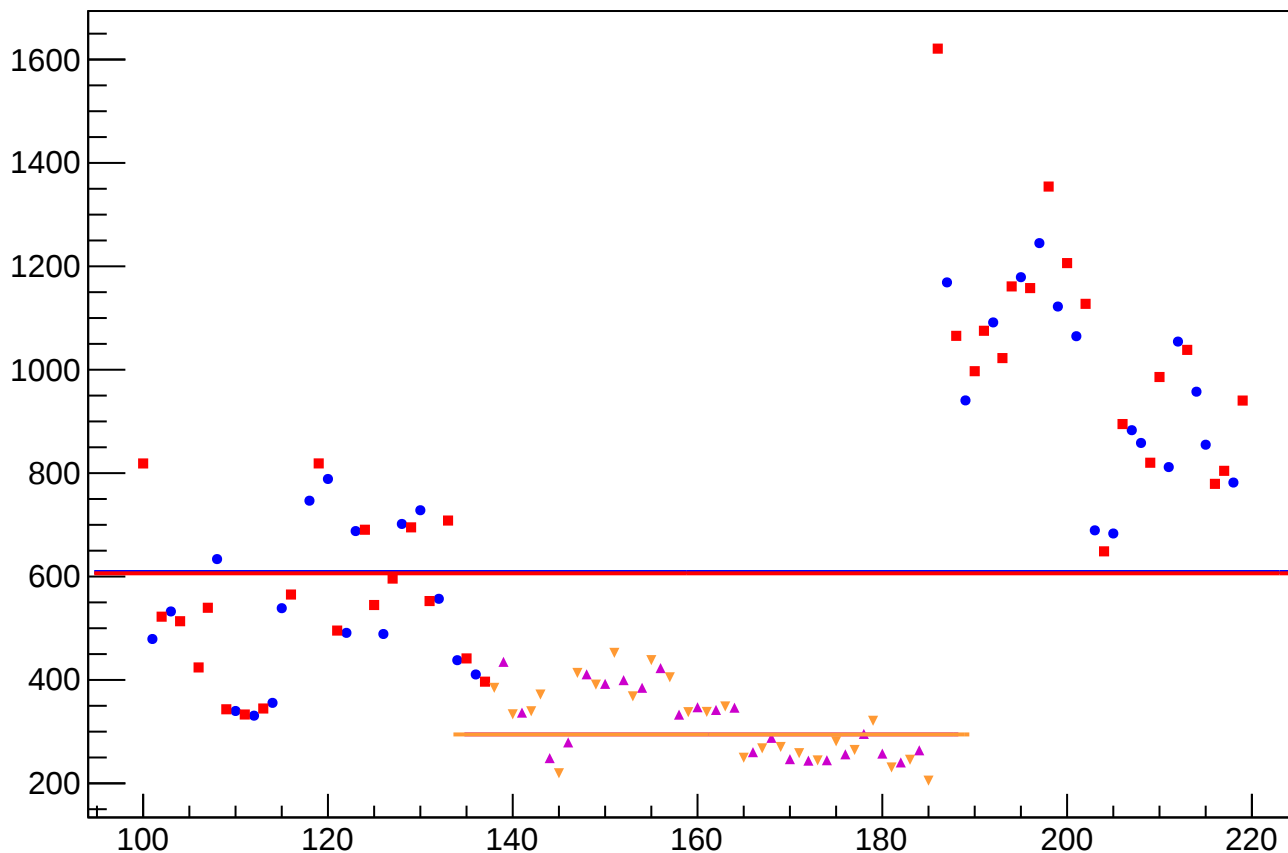
Right: -32.816+/-107.733 χ^2/NDF : 112.7/69

In: 113.076+/-65.340 χ^2/NDF : 95.4/55

Out: 71.396+/-63.768 χ^2/NDF : 99.8/61

All: 91.729+/-45.637 χ^2/NDF : 195.4/117

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 608.780+/-0.109 χ^2/NDF : 4996409.5/32

Left Out: 294.591+/-0.050 χ^2/NDF : 1680474.5/24

Right Out: 606.236+/-0.106 χ^2/NDF : 6306200.5/36

Left In: 294.722+/-0.051 χ^2/NDF : 1297310.3/22

Left: 294.655+/-0.036 χ^2/NDF : 2977788.1/47

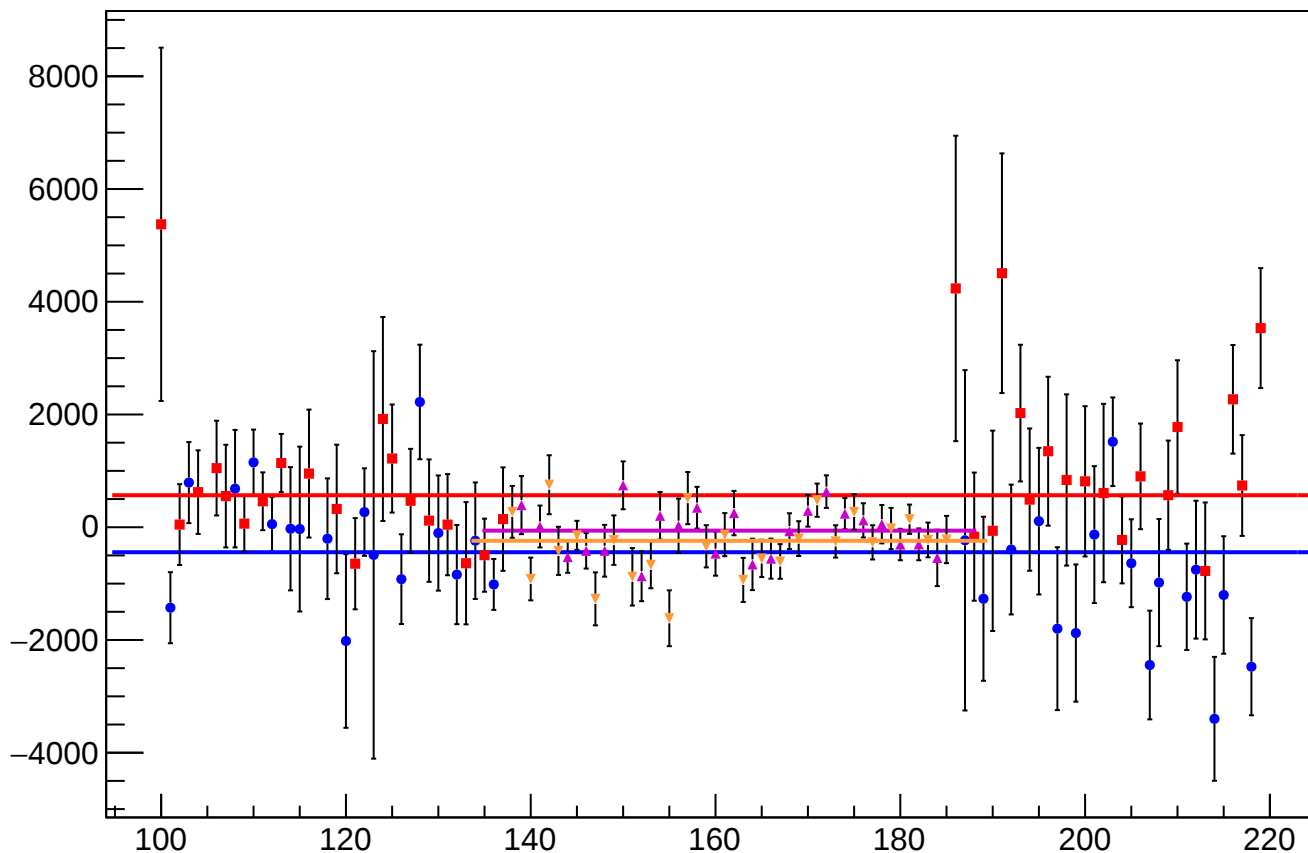
Right: 607.472+/-0.076 χ^2/NDF : 11302888.7/69

In: 350.852+/-0.046 χ^2/NDF : 13075820.7/55

Out: 350.728+/-0.045 χ^2/NDF : 15041244.9/61

All: 350.788+/-0.032 χ^2/NDF : 28117069.3/112

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -443.076 ± 155.401 χ^2/NDF : 54.2/32

Left Out: -240.357 ± 71.100 χ^2/NDF : 42.9/24

Right Out: 567.422 ± 151.531 χ^2/NDF : 35.7/36

Left In: -60.330 ± 72.788 χ^2/NDF : 30.9/22

Left: -152.455 ± 50.862 χ^2/NDF : 77.0/47

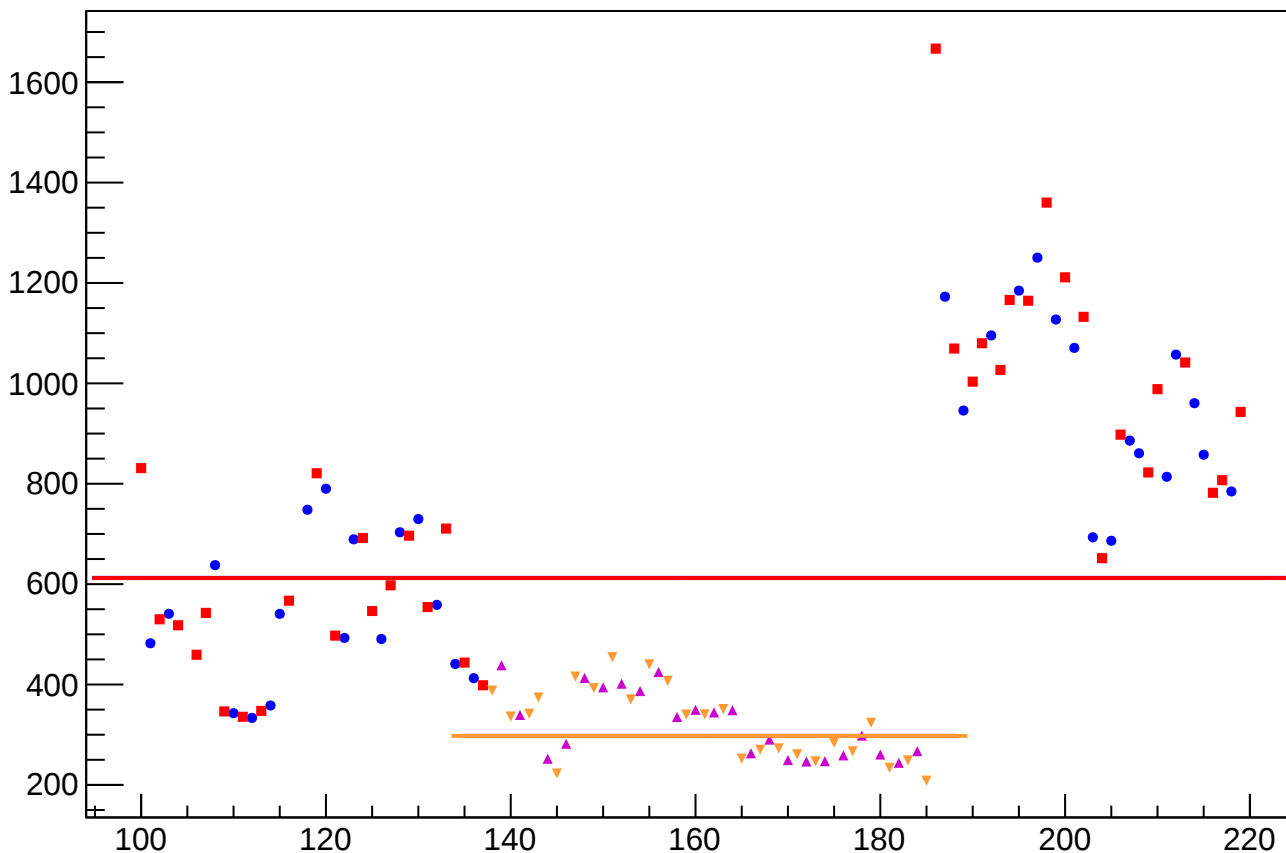
Right: 74.910 ± 108.491 χ^2/NDF : 111.6/69

In: -129.192 ± 65.916 χ^2/NDF : 90.1/55

Out: -94.605 ± 64.367 χ^2/NDF : 101.9/61

All: -111.487 ± 46.052 χ^2/NDF : 192.1/117

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 612.445 $\pm$ 0.110 χ^2 /NDF: 4963532.8/32

Left Out: 297.613 $\pm$ 0.050 χ^2 /NDF:1637757.8/24

Right Out: 612.130 $\pm$ 0.107 χ^2 /NDF: 6225842.4/36

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

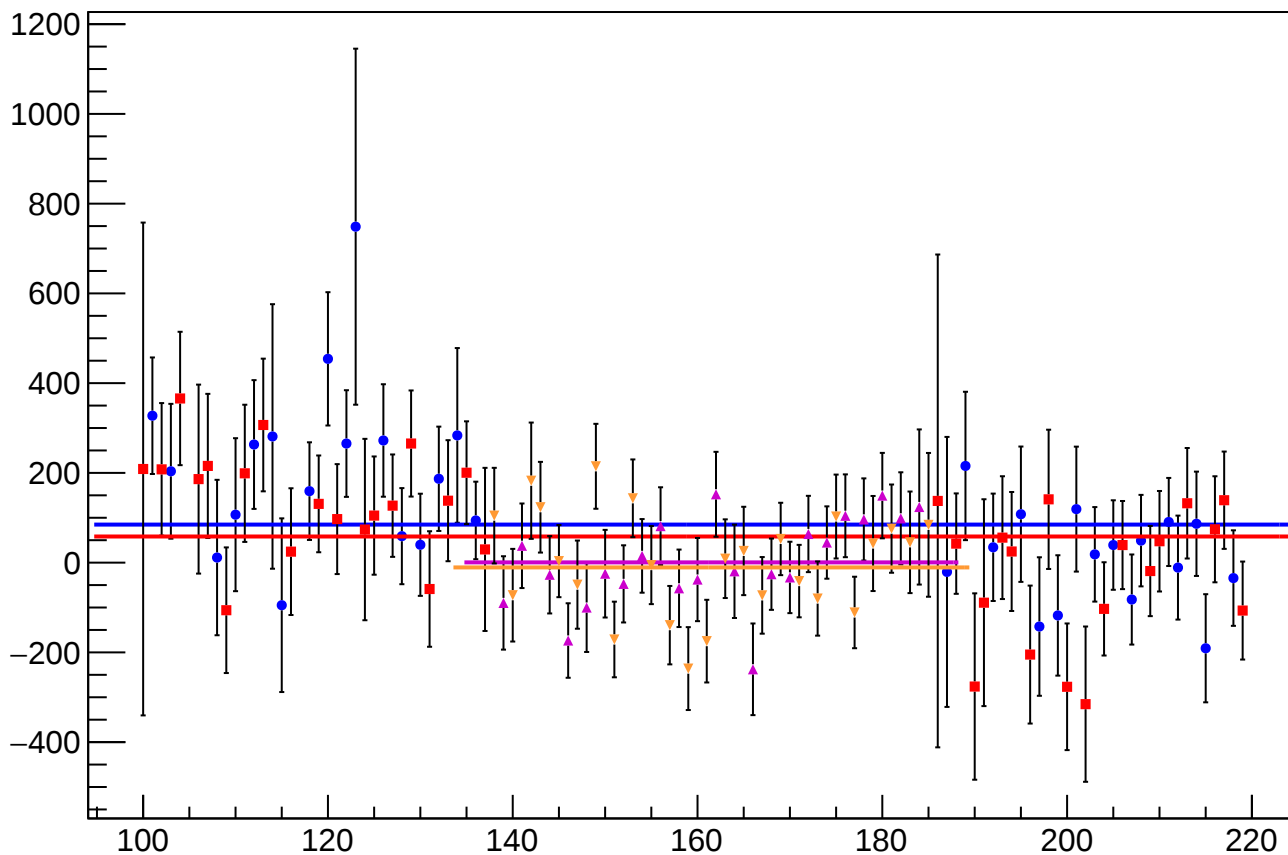
Right: 612.284 $\pm$ 0.077 χ^2 /NDF: 11189379.4/69

In: 354.327 $\pm$ 0.047 χ^2 /NDF:12958098.5/55

Out: 354.363 $\pm$ 0.046 χ^2 /NDF:14925080.3/61

All: 354.345 $\pm$ 0.033 χ^2 /NDF: 27883179.1/117

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 84.796 ± 22.174 χ^2/NDF : 39.3/32

Left Out: -10.667 ± 18.610 χ^2/NDF : 36.3/24

Right Out: 58.254 ± 22.168 χ^2/NDF : 41.6/36

Left In: 0.575 ± 19.091 χ^2/NDF : 23.8/22

Left: -5.190 ± 13.326 χ^2/NDF : 60.3/47

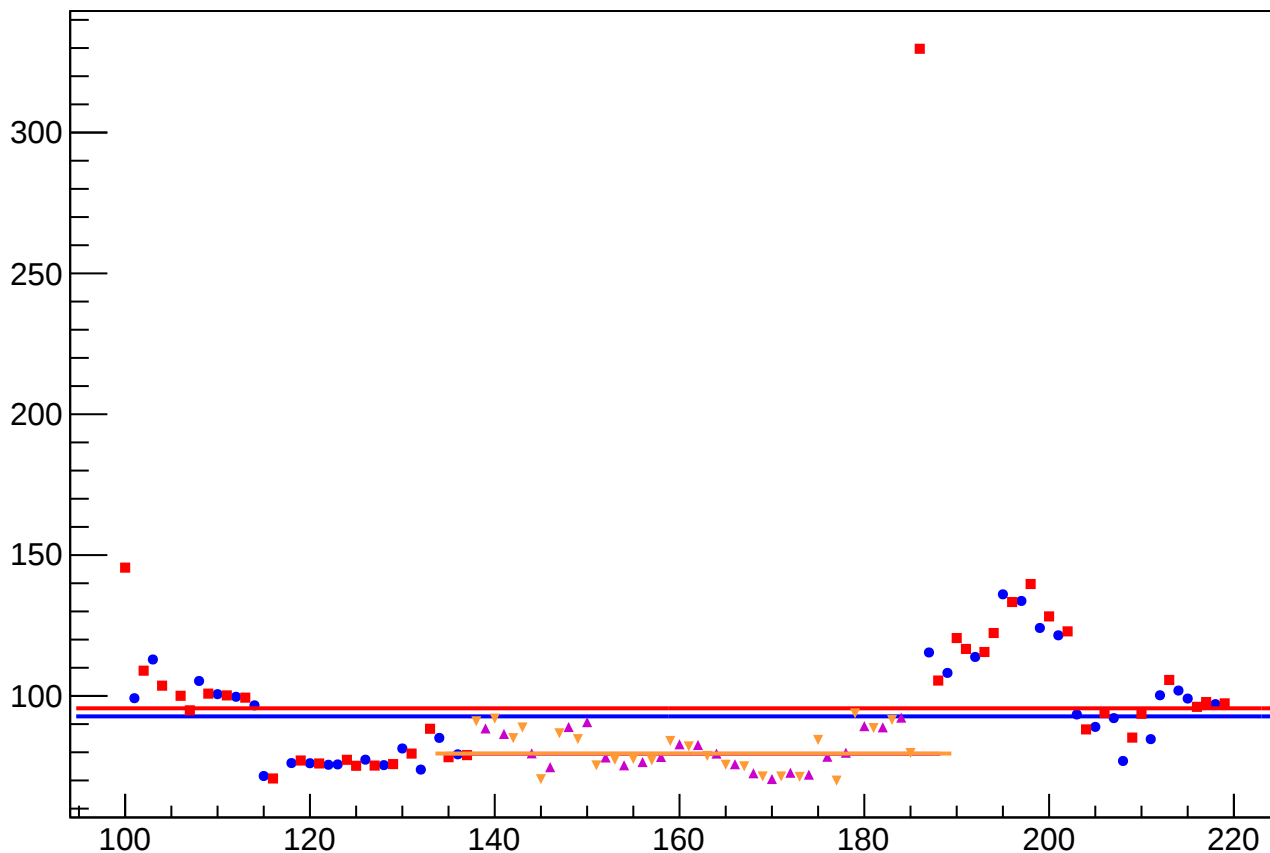
Right: 71.522 ± 15.677 χ^2/NDF : 81.6/69

In: 36.429 ± 14.468 χ^2/NDF : 71.4/55

Out: 17.825 ± 14.253 χ^2/NDF : 83.6/61

All: 26.988 ± 10.154 χ^2/NDF : 155.8/117

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 92.745 $\pm$ 0.016 χ^2 /NDF: 1095164.9/32

Left Out: 79.551 $\pm$ 0.013 χ^2 /NDF: 309075.2/24

Right Out: 95.608 $\pm$ 0.016 χ^2 /NDF: 1536787.7/36

Left In: 79.436 $\pm$ 0.013 χ^2 /NDF: 212440.1/22

Left: 79.495 $\pm$ 0.009 χ^2 /NDF: 521552.2/47

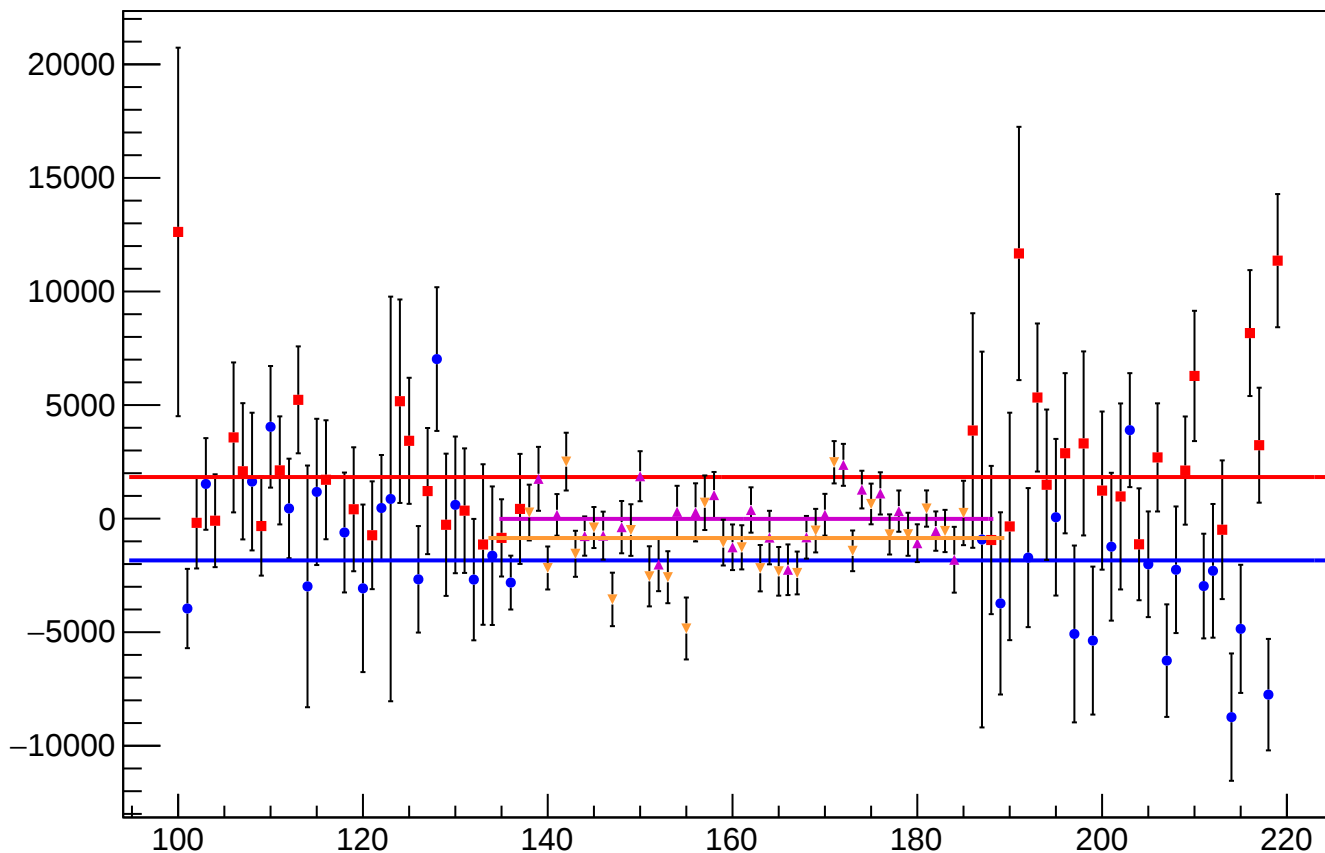
Right: 94.177 $\pm$ 0.011 χ^2 /NDF: 2648624.2/69

In: 85.102 $\pm$ 0.010 χ^2 /NDF: 1721372.2/55

Out: 86.189 $\pm$ 0.010 χ^2 /NDF: 2461387.9/61

All: 85.654 $\pm$ 0.007 χ^2 /NDF: 4188486.2/117

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -1839.713 $\pm$ 456.090 χ^2/NDF : 47.4/32

Left Out: -854.130 $\pm$ 204.090 χ^2/NDF : 56.0/24

Right Out: 1830.561 $\pm$ 461.645 χ^2/NDF : 40.0/36

Left In: -11.687 $\pm$ 210.073 χ^2/NDF : 31.2/22

Left: -445.076 $\pm$ 146.383 χ^2/NDF : 95.5/47

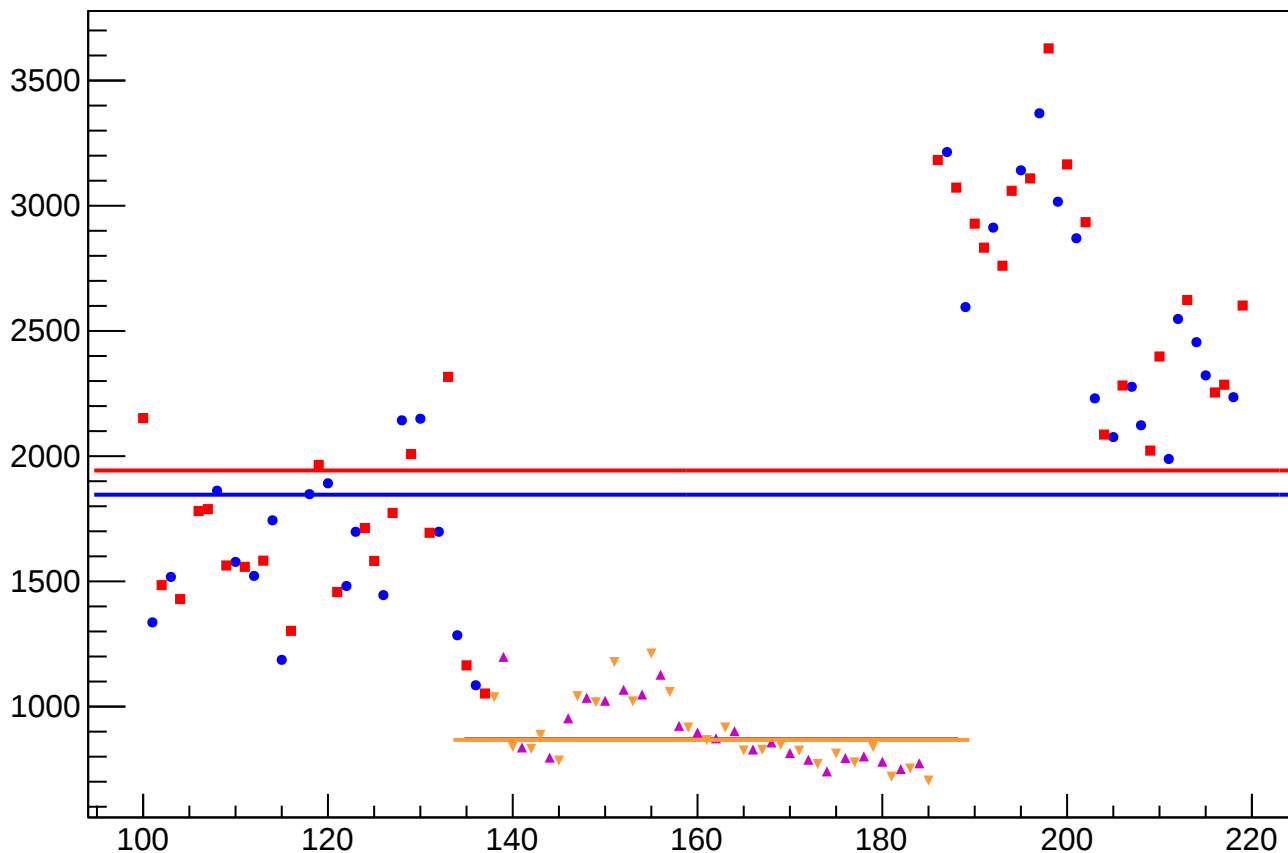
Right: -26.790 $\pm$ 324.450 χ^2/NDF : 119.3/69

In: -331.625 $\pm$ 190.806 χ^2/NDF : 91.8/55

Out: -415.203 $\pm$ 186.662 χ^2/NDF : 124.2/61

All: -374.331 $\pm$ 133.431 χ^2/NDF : 216.2/117

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1846.213 $\pm$ 0.323 χ^2 /NDF: 3297835.2/32

Left Out: 866.893 $\pm$ 0.144 χ^2 /NDF: 661712.5/24

Right Out: 1942.895 $\pm$ 0.326 χ^2 /NDF: 3508152.8/36

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

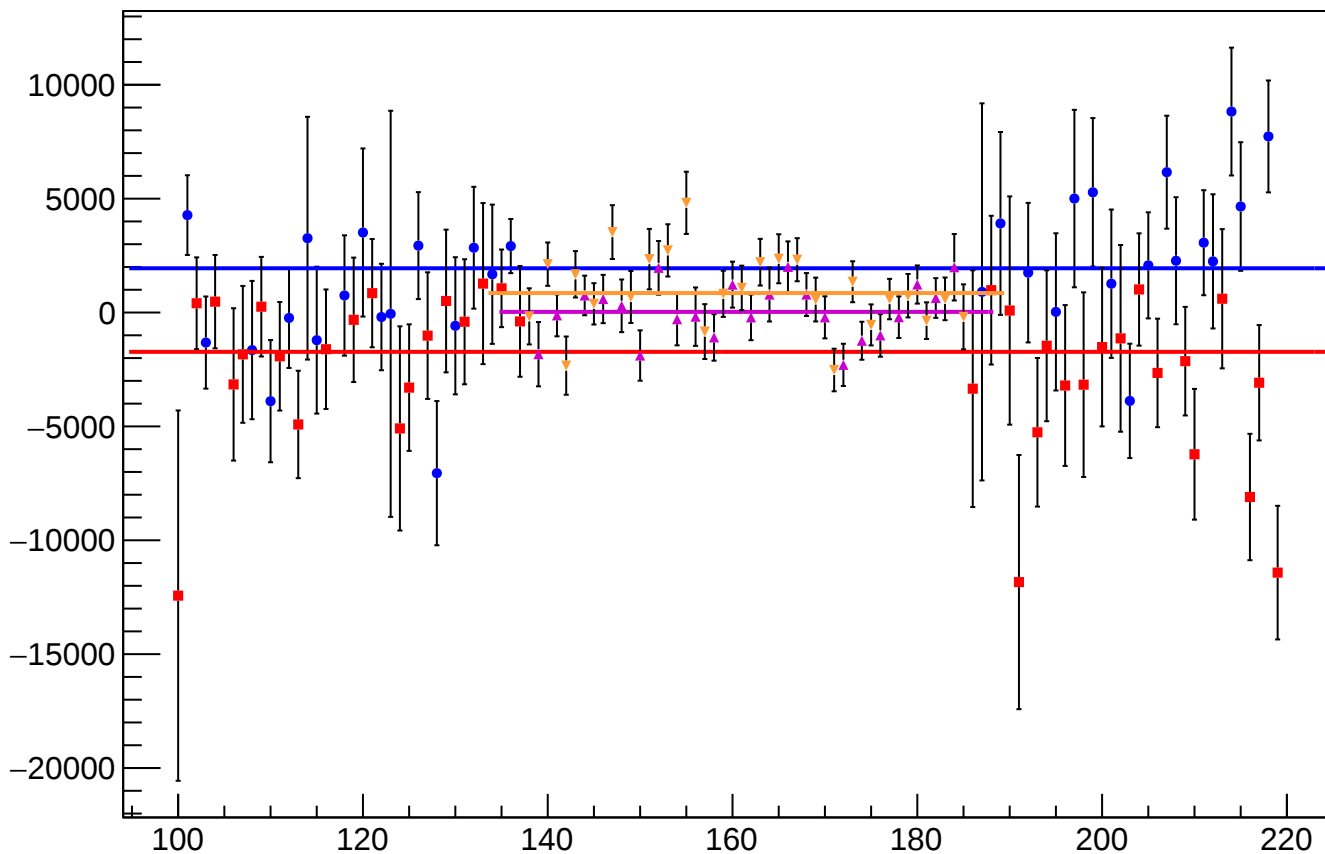
Right: 1893.969 $\pm$ 0.229 χ^2 /NDF: 6850379.0/69

In: 1040.499 $\pm$ 0.135 χ^2 /NDF: 11445780.6/55

Out: 1042.811 $\pm$ 0.132 χ^2 /NDF: 13258731.2/61

All: 1041.681 $\pm$ 0.094 χ^2 /NDF: 24704661.9/122

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1943.278 ± 456.825 $\chi^2/\text{NDF}: 46.8/32$

Left Out: 855.664 ± 205.047 $\chi^2/\text{NDF}: 54.1/24$

Right Out: -1726.044 ± 462.454 $\chi^2/\text{NDF}: 40.3/36$

Left In: 28.553 ± 211.034 $\chi^2/\text{NDF}: 29.7/22$

Left: 454.007 ± 147.061 $\chi^2/\text{NDF}: 91.7/47$

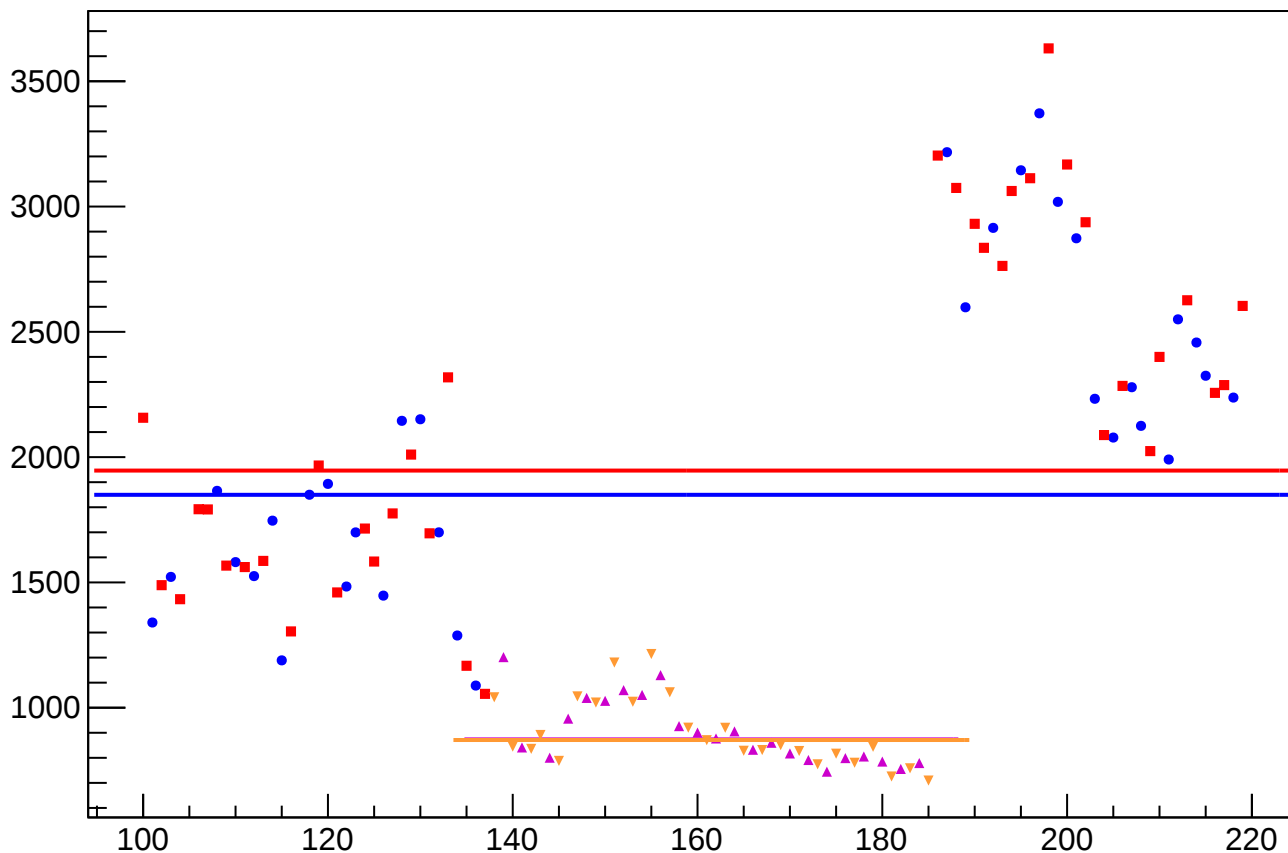
Right: 131.085 ± 324.996 $\chi^2/\text{NDF}: 119.0/69$

In: 365.301 ± 191.580 $\chi^2/\text{NDF}: 91.1/55$

Out: 431.505 ± 187.448 $\chi^2/\text{NDF}: 120.4/61$

All: 399.124 ± 133.982 $\chi^2/\text{NDF}: 211.5/117$

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1849.607 $\pm$ 0.323 χ^2/NDF : 3283687.7/32

Left Out: 871.109 $\pm$ 0.145 χ^2/NDF : 651751.1/24

Right Out: 1946.389 $\pm$ 0.327 χ^2/NDF : 3497418.8/36

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

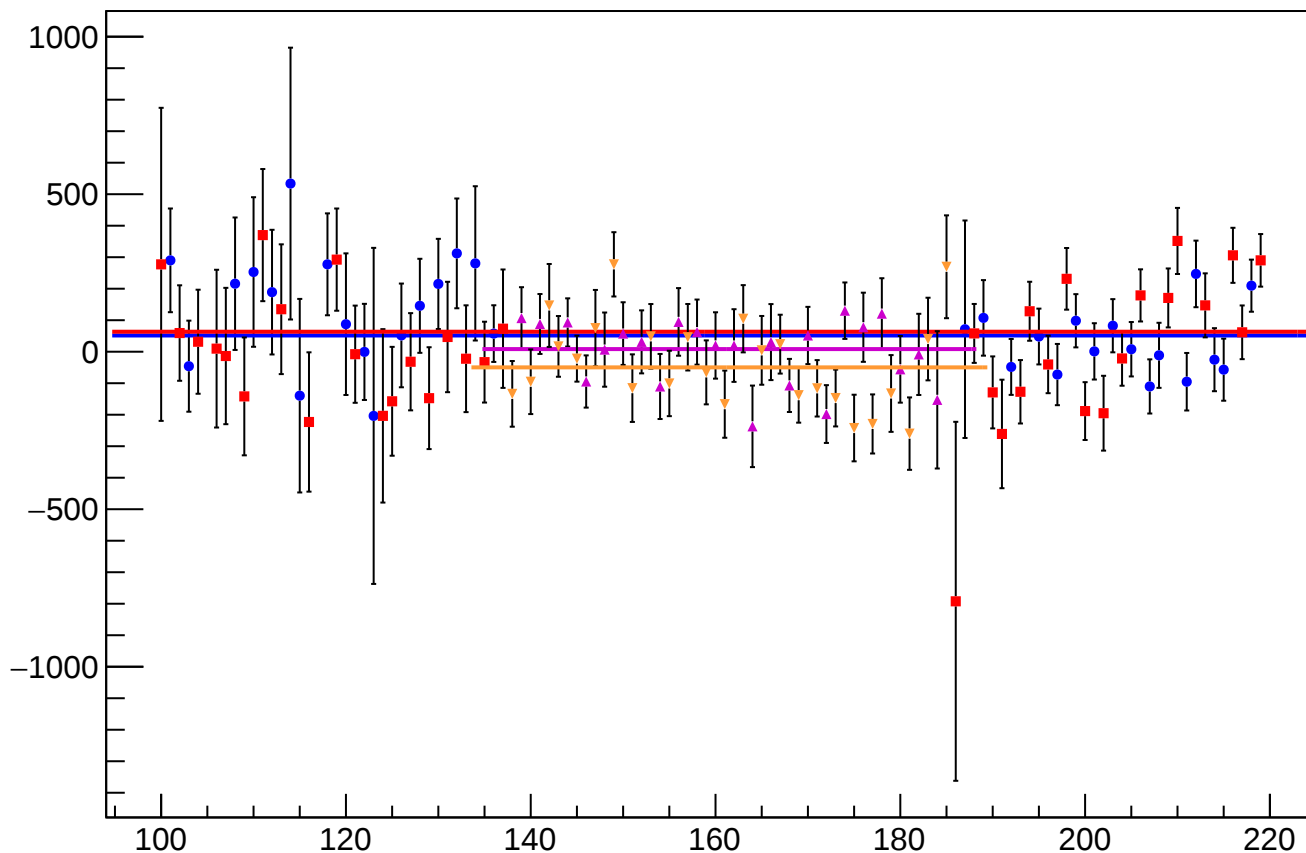
Right: 1897.405 $\pm$ 0.230 χ^2/NDF : 6825440.6/69

In: 1045.315 $\pm$ 0.135 χ^2/NDF : 11380038.7/55

Out: 1047.771 $\pm$ 0.133 χ^2/NDF : 13185442.5/61

All: 1046.570 $\pm$ 0.095 χ^2/NDF : 24565649.2/131

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 51.517 ± 20.669 $\chi^2/\text{NDF}: 32.7/32$

Left Out: -49.717 ± 20.580 $\chi^2/\text{NDF}: 39.4/24$

Right Out: 63.474 ± 20.292 $\chi^2/\text{NDF}: 70.0/36$

Left In: 8.343 ± 21.271 $\chi^2/\text{NDF}: 22.0/22$

Left: -21.646 ± 14.791 $\chi^2/\text{NDF}: 65.3/47$

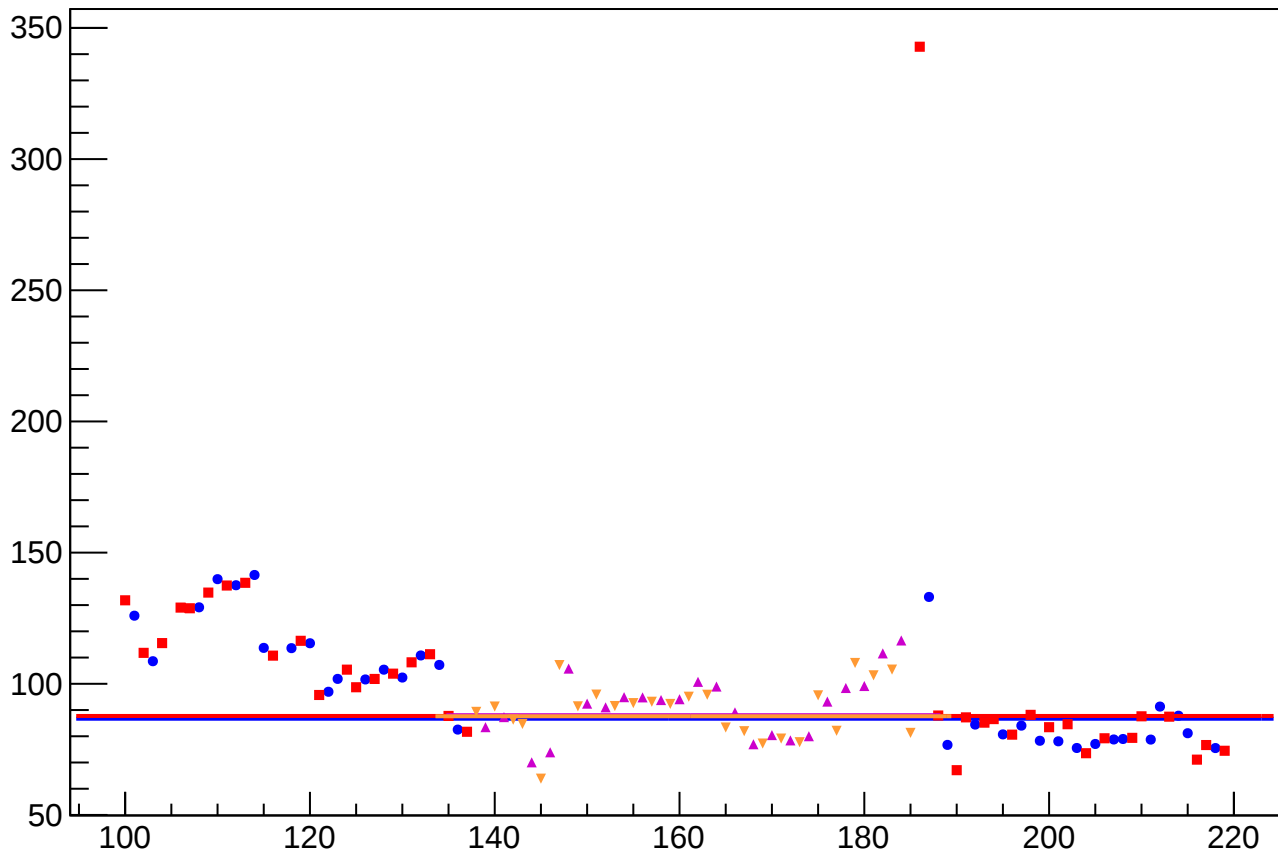
Right: 57.605 ± 14.480 $\chi^2/\text{NDF}: 102.8/69$

In: 30.549 ± 14.824 $\chi^2/\text{NDF}: 56.8/55$

Out: 7.677 ± 14.449 $\chi^2/\text{NDF}: 124.7/61$

All: 18.821 ± 10.347 $\chi^2/\text{NDF}: 182.7/117$

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 86.686 $\pm$ 0.015 χ^2 /NDF: 999315.3/32

Left Out: 87.625 $\pm$ 0.015 χ^2 /NDF: 554690.7/24

Right Out: 87.741 $\pm$ 0.014 χ^2 /NDF: 1553214.5/36

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

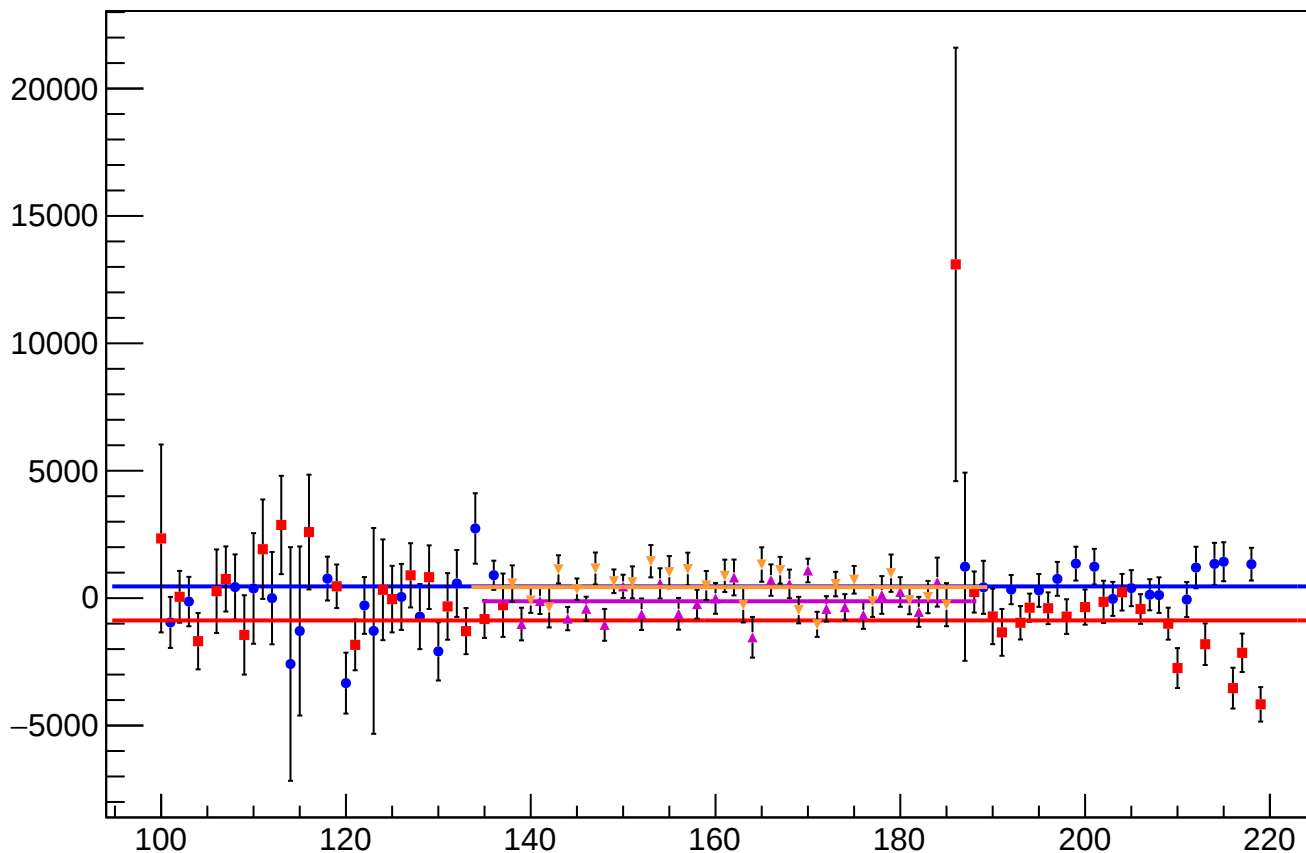
Right: 87.223 $\pm$ 0.010 χ^2 /NDF: 2555181.3/69

In: 87.340 $\pm$ 0.010 χ^2 /NDF: 1527146.3/55

Out: 87.684 $\pm$ 0.010 χ^2 /NDF: 2107936.9/61

All: 87.516 $\pm$ 0.007 χ^2 /NDF: 3635635.8/117

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 460.518+/-151.521 χ^2/NDF : 33.7/32

Left Out: 431.658+/-115.706 χ^2/NDF :30.5/24

Right Out: -875.367+/-146.998 χ^2/NDF : 76.5/36

Left In: -123.017+/-118.849 χ^2/NDF :29.3/22

Left: 161.753+/-82.905 χ^2/NDF : 70.9/47

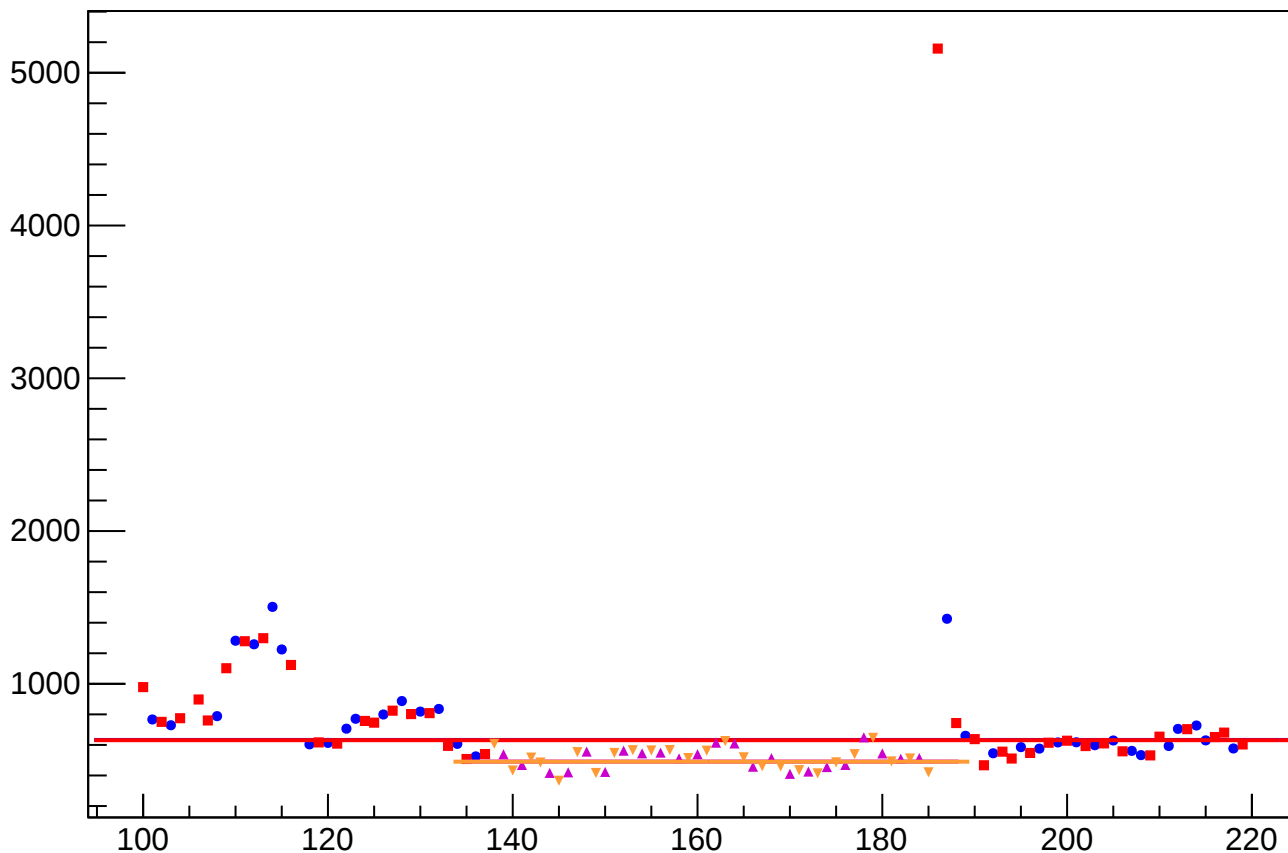
Right: -227.662+/-105.506 χ^2/NDF : 150.2/69

In: 99.250+/-93.514 χ^2/NDF :72.1/55

Out: -68.345+/-90.919 χ^2/NDF :155.8/61

All: 13.095+/-65.188 χ^2/NDF : 229.5/117

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 632.522+/-0.107 χ^2/NDF : 1241371.5/32

Left Out: 490.267+/-0.082 χ^2/NDF : 750277.0/24

Right Out: 631.053+/-0.104 χ^2/NDF : 2052216.7/36

Left In: 490.910+/-0.084 χ^2/NDF : 589235.5/22

Left: 490.580+/-0.059 χ^2/NDF : 1339542.5/47

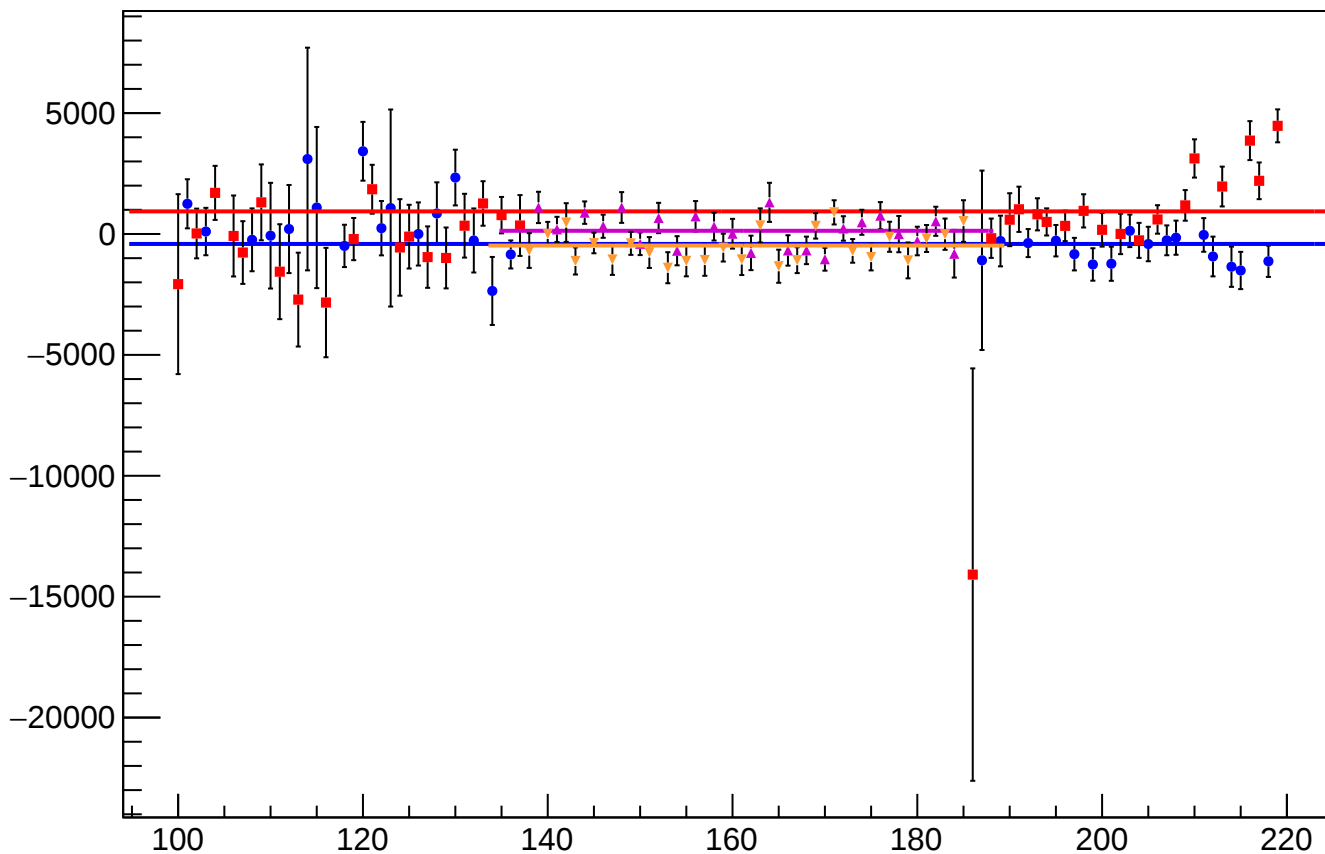
Right: 631.765+/-0.075 χ^2/NDF : 3293685.1/69

In: 544.849+/-0.066 χ^2/NDF : 2912164.5/55

Out: 544.125+/-0.064 χ^2/NDF : 3935226.7/61

All: 544.477+/-0.046 χ^2/NDF : 6847453.1/117

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: -411.645 $\pm$ 153.080 χ^2 /NDF: 33.0/32

Left Out: -478.197 $\pm$ 117.659 χ^2 /NDF:27.8/24

Right Out: 934.825 $\pm$ 148.600 χ^2 /NDF: 85.3/36

Left In: 132.543 $\pm$ 120.866 χ^2 /NDF:29.5/22

Left: -181.037 $\pm$ 84.308 χ^2 /NDF: 70.5/47

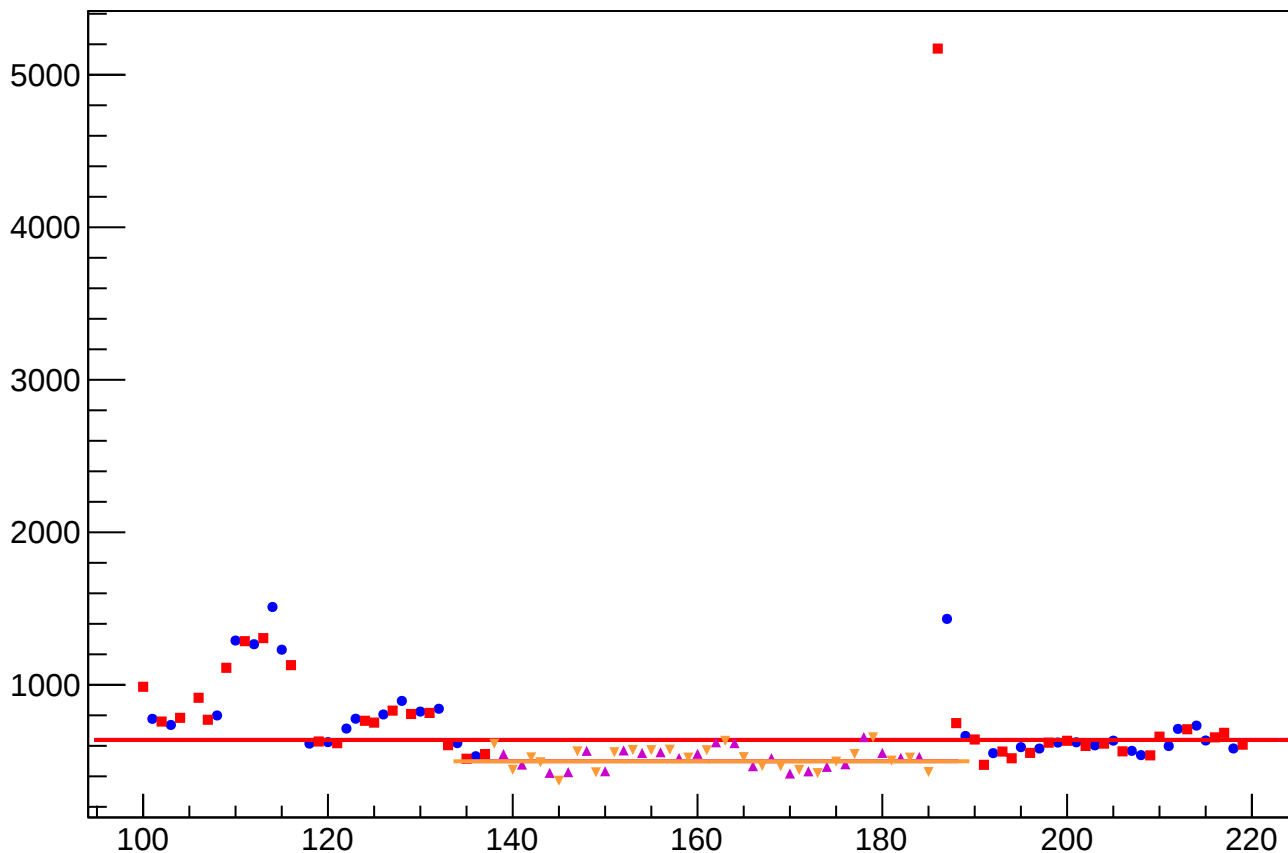
Right: 281.583 $\pm$ 106.625 χ^2 /NDF: 158.1/69

In: -76.431 $\pm$ 94.862 χ^2 /NDF:70.3/55

Out: 66.301 $\pm$ 92.245 χ^2 /NDF:168.7/61

All: -3.069 $\pm$ 66.133 χ^2 /NDF: 240.2/117

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 639.207+/-0.108 χ^2/NDF : 1229426.2/32

Left Out: 498.754+/-0.083 χ^2/NDF : 734302.8/24

Right Out: 638.152+/-0.105 χ^2/NDF : 2030178.3/36

Left In: 499.393+/-0.085 χ^2/NDF : 576539.2/22

Left: 499.065+/-0.060 χ^2/NDF : 1310870.7/47

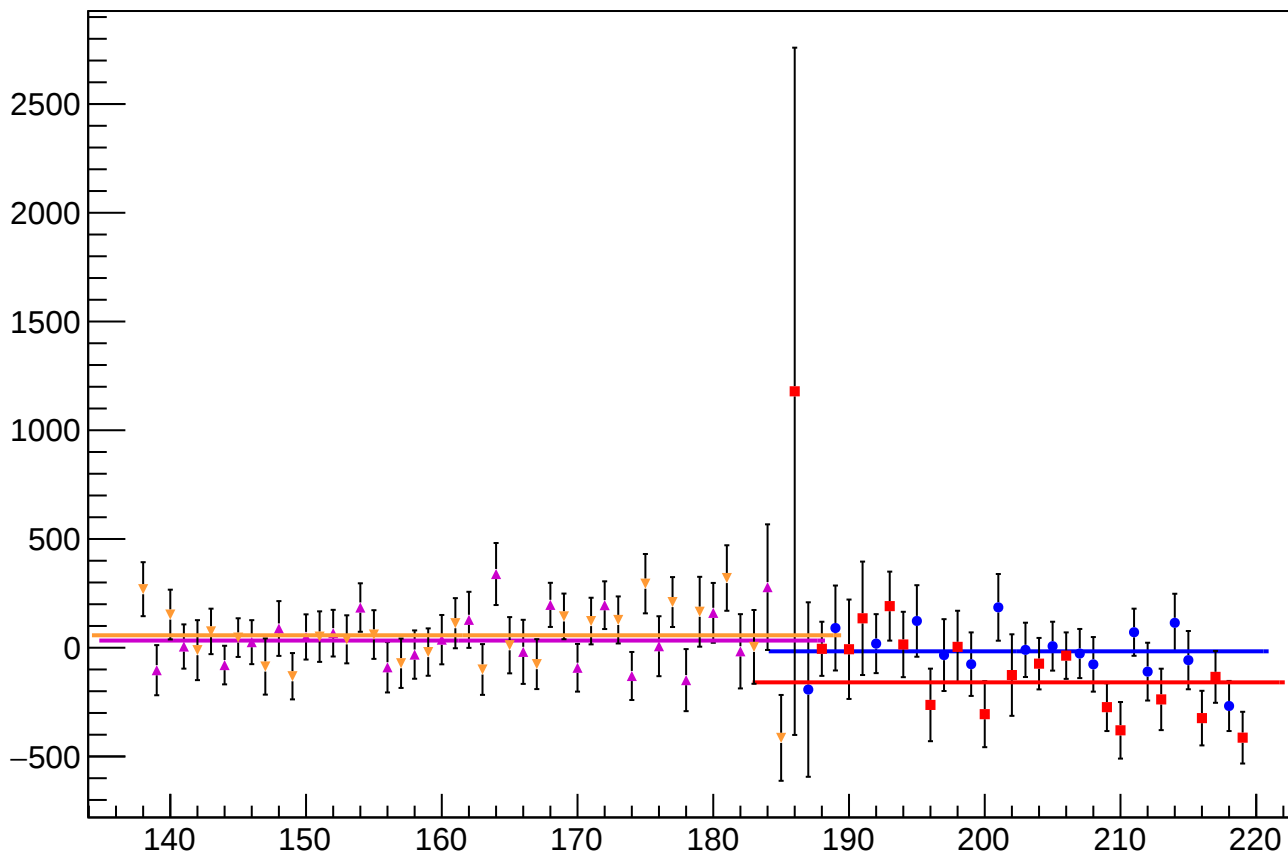
Right: 638.664+/-0.075 χ^2/NDF : 3259653.3/69

In: 553.083+/-0.067 χ^2/NDF : 2833660.6/55

Out: 552.470+/-0.065 χ^2/NDF : 3846262.7/61

All: 552.768+/-0.047 χ^2/NDF : 6679966.1/117

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -16.513 ± 34.026 χ^2/NDF : 10.4/15

Left Out: 57.211 ± 23.714 χ^2/NDF : 29.2/24

Right Out: -159.212 ± 33.662 χ^2/NDF : 25.0/17

Left In: 32.948 ± 24.587 χ^2/NDF : 23.6/22

Left: 45.518 ± 17.069 χ^2/NDF : 53.3/47

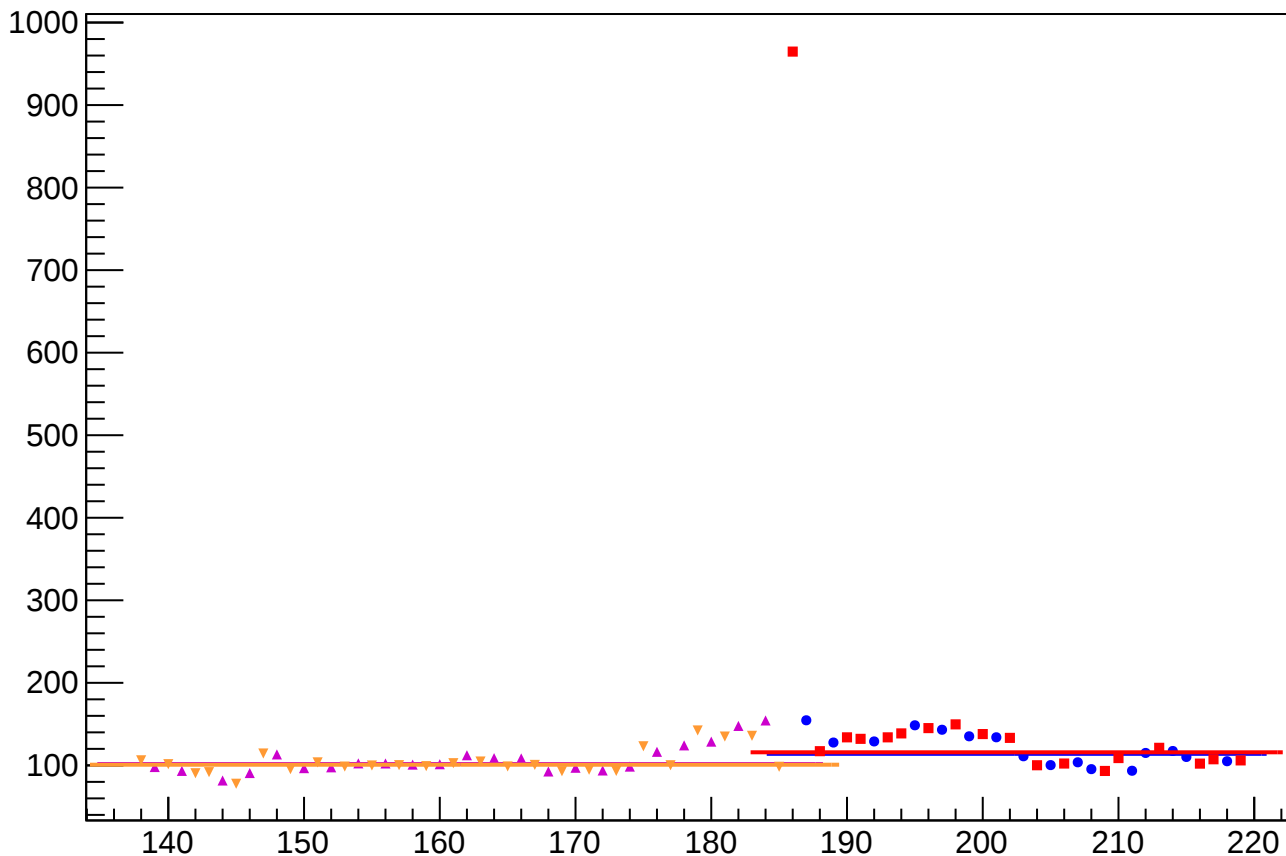
Right: -88.629 ± 23.930 χ^2/NDF : 44.3/33

In: 15.981 ± 19.929 χ^2/NDF : 35.4/38

Out: -14.571 ± 19.386 χ^2/NDF : 81.8/42

All: 0.284 ± 13.896 χ^2/NDF : 118.4/81

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 113.973 $\pm$ 0.024 χ^2 /NDF: 459584.6/15

Left Out: 100.801 $\pm$ 0.017 χ^2 /NDF:600502.4/24

Right Out: 115.835 $\pm$ 0.024 χ^2 /NDF: 1083551.3/17

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

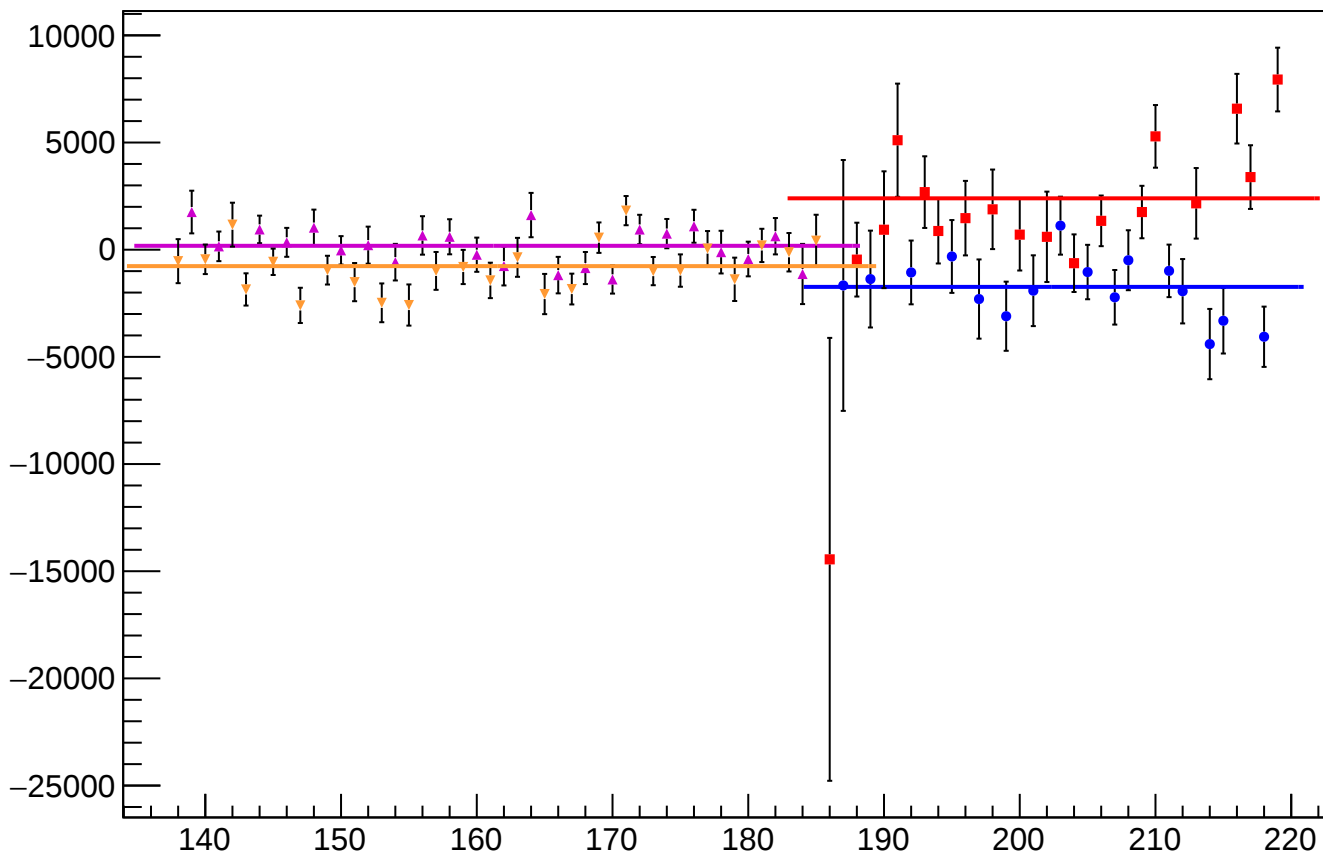
Right: 114.914 $\pm$ 0.017 χ^2 /NDF: 1546164.5/33

In: 105.859 $\pm$ 0.014 χ^2 /NDF:1215045.2/38

Out: 105.787 $\pm$ 0.014 χ^2 /NDF:1950705.2/42

All: 105.822 $\pm$ 0.010 χ^2 /NDF: 3165763.6/81

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: -1734.861 $\pm$ 384.058 χ^2 /NDF: 14.3/15

Left Out: -766.358 $\pm$ 161.066 χ^2 /NDF:46.5/24

Right Out: 2396.501 $\pm$ 386.877 χ^2 /NDF: 40.9/17

Left In: 181.584 $\pm$ 165.671 χ^2 /NDF:25.0/22

Left: -305.743 $\pm$ 115.485 χ^2 /NDF: 88.4/47

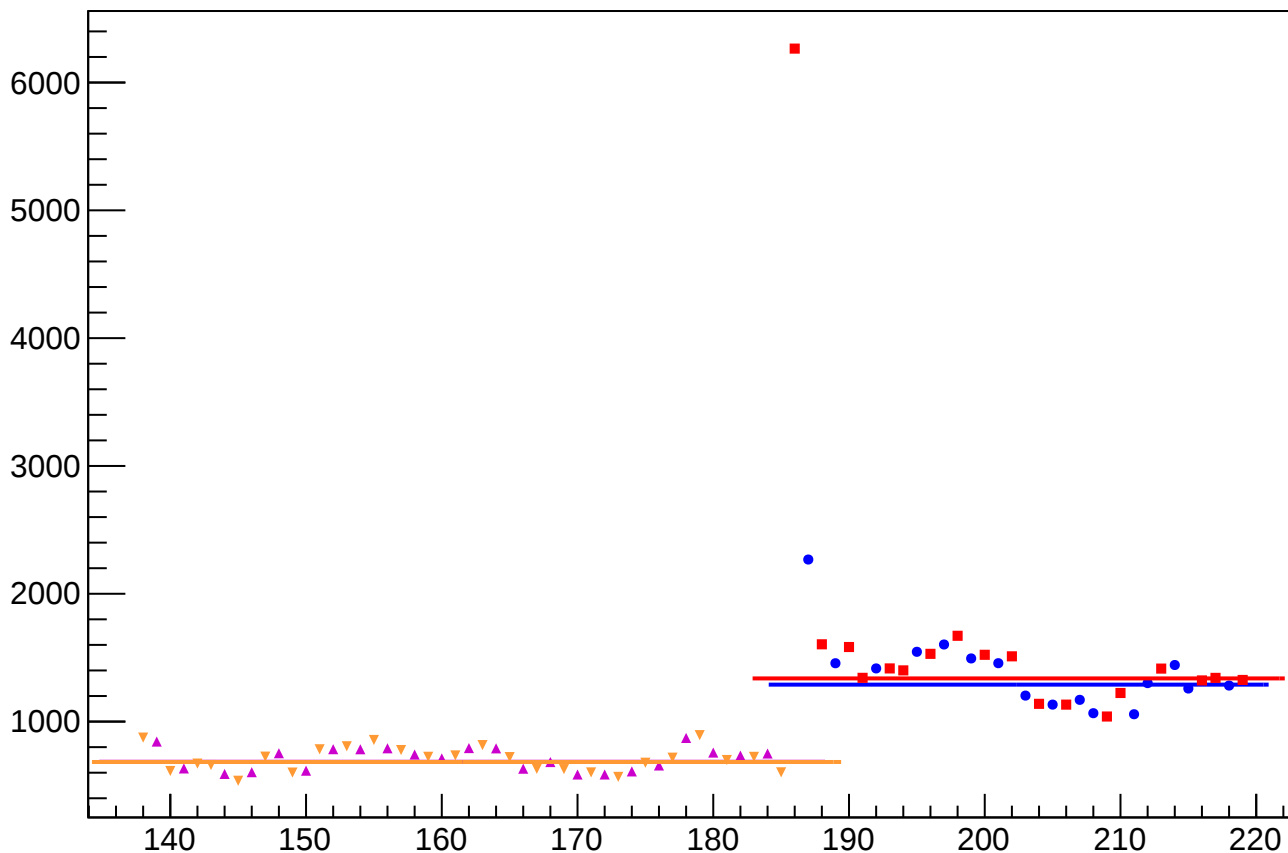
Right: 315.713 $\pm$ 272.561 χ^2 /NDF: 112.7/33

In: -119.080 $\pm$ 152.121 χ^2 /NDF:60.3/38

Out: -299.135 $\pm$ 148.695 χ^2 /NDF:144.5/42

All: -211.158 $\pm$ 106.334 χ^2 /NDF: 205.5/81

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 1289.090 $\pm$ 0.272 χ^2 /NDF: 434782.3/15

Left Out: 683.884 $\pm$ 0.114 χ^2 /NDF: 667158.2/24

Right Out: 1337.716 $\pm$ 0.274 χ^2 /NDF: 893571.0/17

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

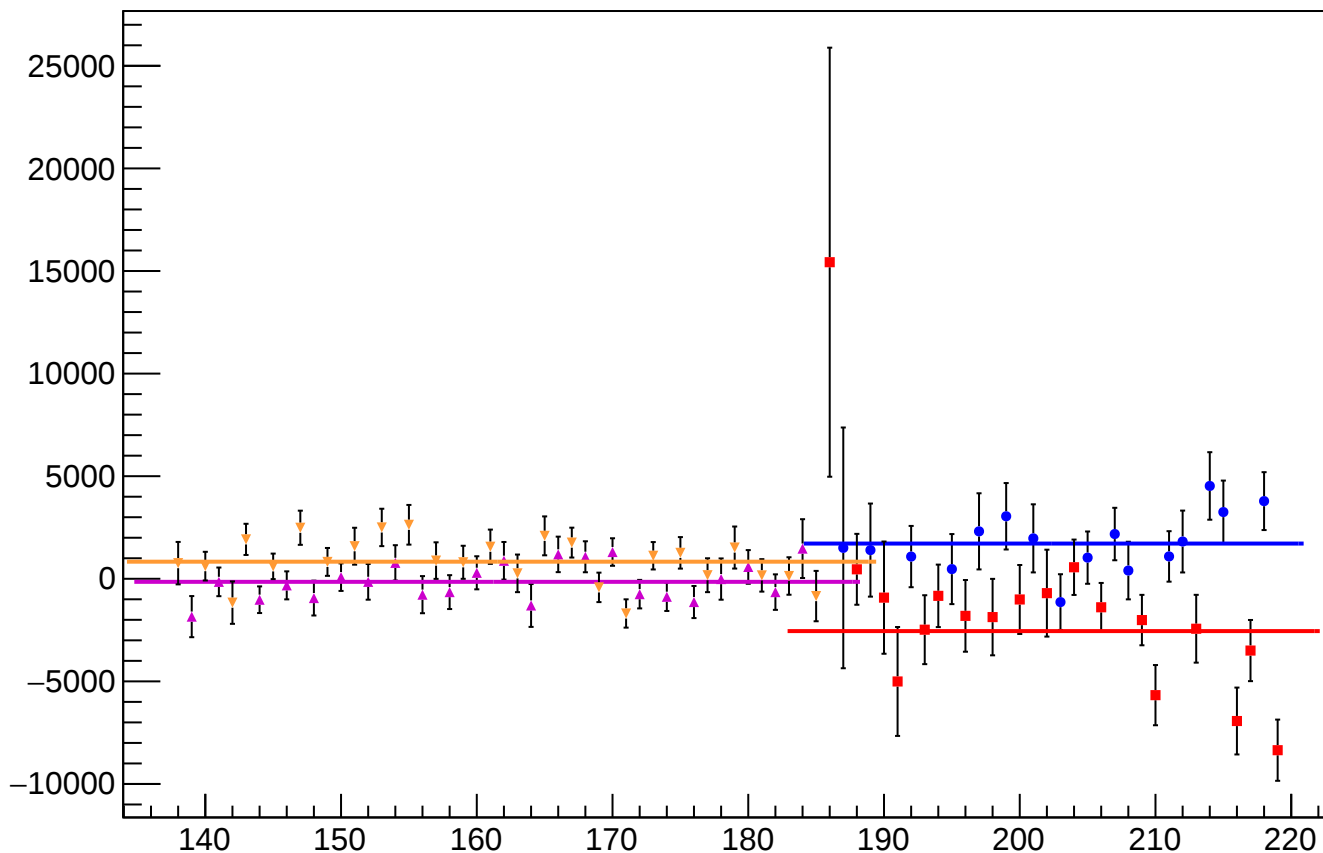
Right: 1313.225 $\pm$ 0.193 χ^2 /NDF: 1344266.3/33

In: 780.273 $\pm$ 0.108 χ^2 /NDF: 5127772.7/38

Out: 780.469 $\pm$ 0.105 χ^2 /NDF: 6429246.9/42

All: 780.373 $\pm$ 0.075 χ^2 /NDF: 11557021.2/83

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 1716.768 ± 385.618 $\chi^2/\text{NDF}: 13.6/15$

Left Out: 833.395 ± 162.965 $\chi^2/\text{NDF}: 43.2/24$

Right Out: -2549.542 ± 388.432 $\chi^2/\text{NDF}: 44.2/17$

Left In: -148.814 ± 167.644 $\chi^2/\text{NDF}: 26.0/22$

Left: 356.189 ± 116.853 $\chi^2/\text{NDF}: 86.9/47$

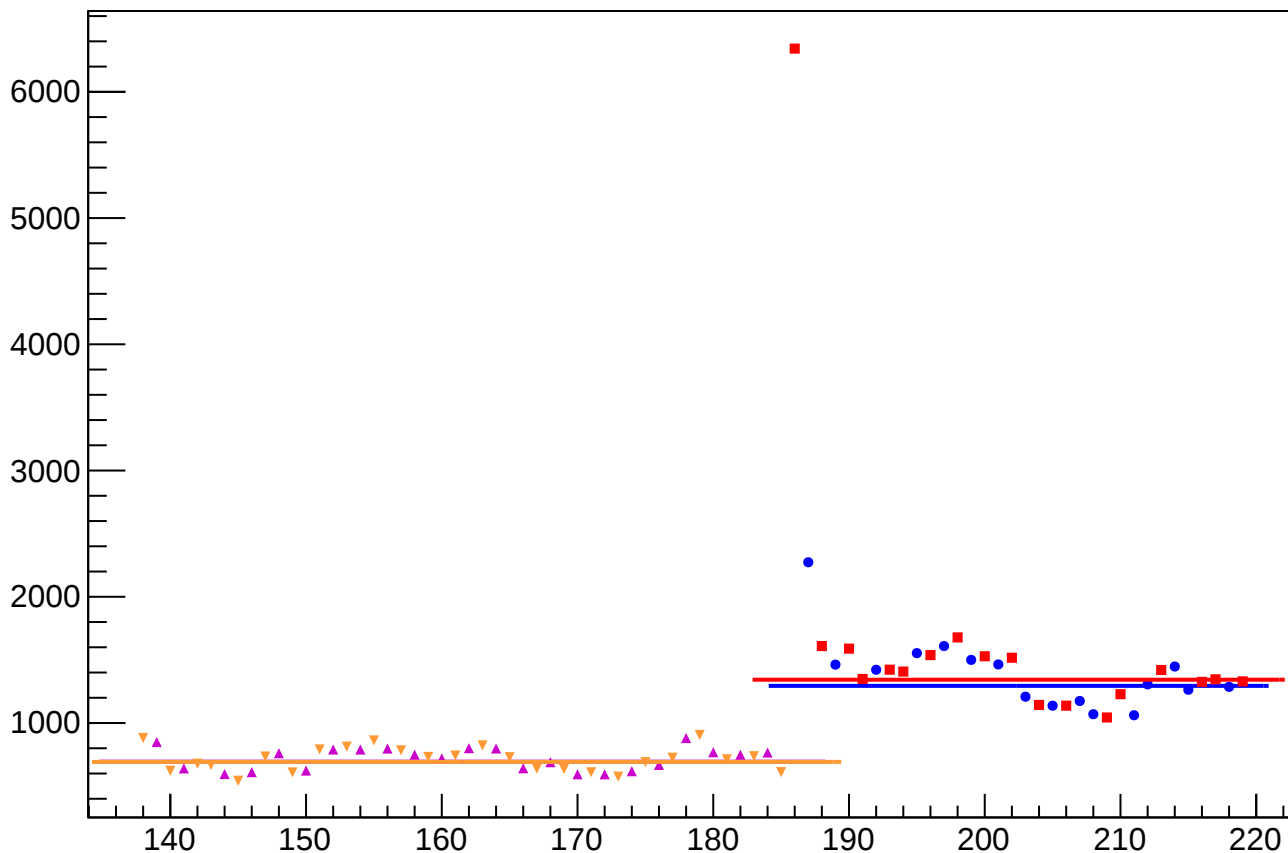
Right: -400.881 ± 273.663 $\chi^2/\text{NDF}: 118.5/33$

In: 147.733 ± 153.744 $\chi^2/\text{NDF}: 59.3/38$

Out: 327.059 ± 150.275 $\chi^2/\text{NDF}: 151.9/42$

All: 239.441 ± 107.466 $\chi^2/\text{NDF}: 211.9/81$

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 1294.326 $\pm$ 0.273 χ^2 /NDF: 435267.7/15

Left Out: 692.097 $\pm$ 0.115 χ^2 /NDF: 657259.6/24

Right Out: 1343.055 $\pm$ 0.275 χ^2 /NDF: 896057.7/17

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

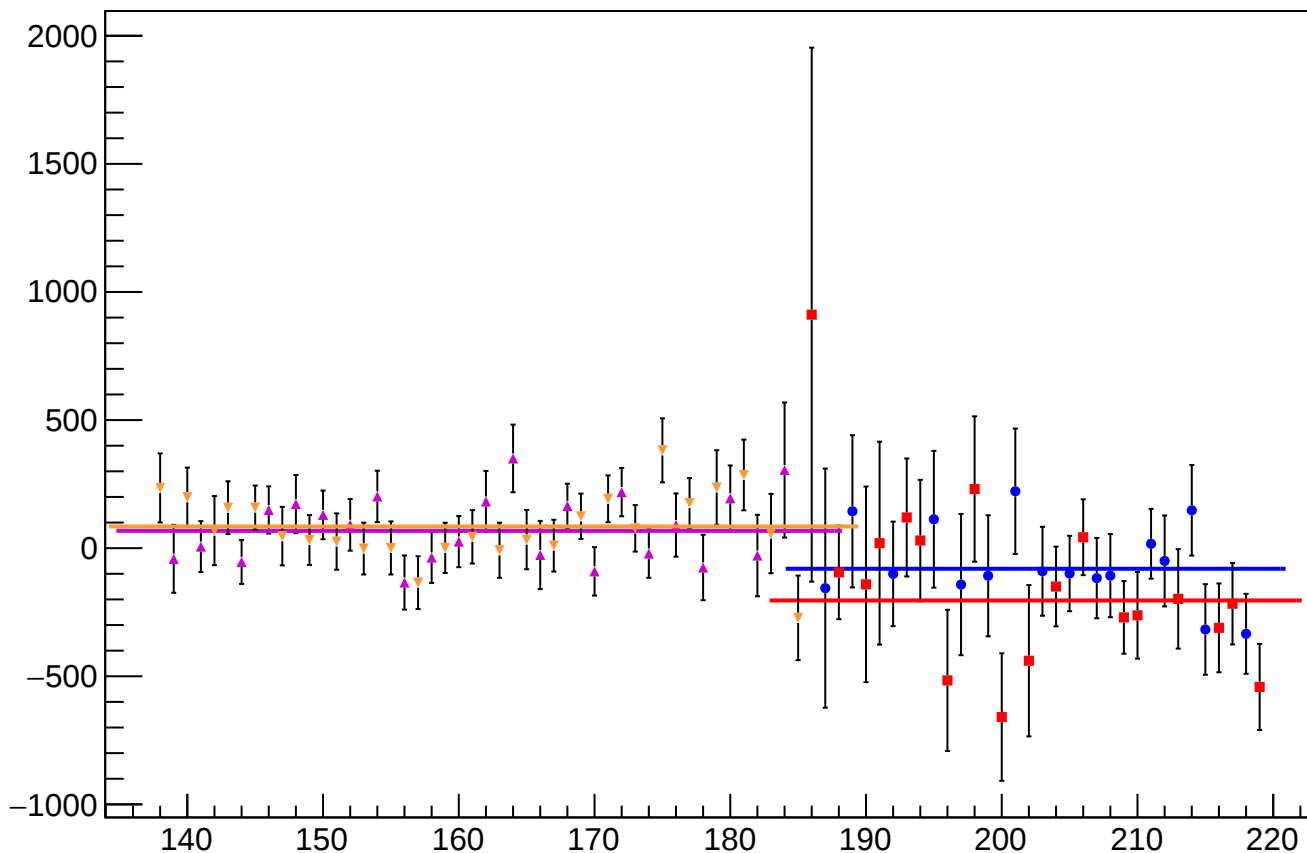
Right: 1318.513 $\pm$ 0.194 χ^2 /NDF: 1347178.1/33

In: 789.314 $\pm$ 0.109 χ^2 /NDF: 5035806.1/38

Out: 789.528 $\pm$ 0.106 χ^2 /NDF: 6329632.3/42

All: 789.423 $\pm$ 0.076 χ^2 /NDF: 11365440.3/83

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -80.363 ± 47.111 χ^2/NDF : 9.5/15

Left Out: 84.860 ± 21.643 χ^2/NDF : 28.5/24

Right Out: -204.063 ± 47.632 χ^2/NDF : 20.1/17

Left In: 67.552 ± 22.449 χ^2/NDF : 28.9/22

Left: 76.522 ± 15.581 χ^2/NDF : 57.7/47

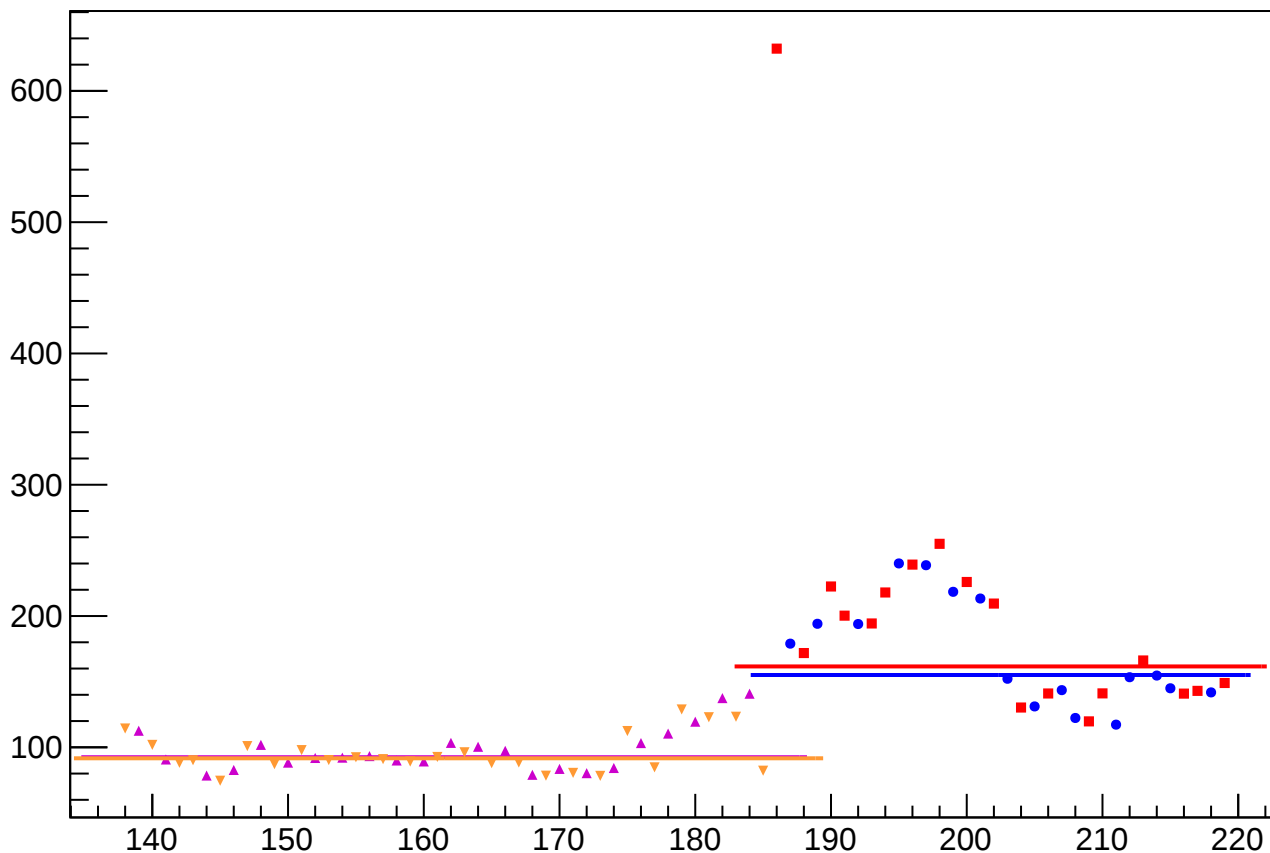
Right: -141.533 ± 33.495 χ^2/NDF : 33.0/33

In: 40.180 ± 20.266 χ^2/NDF : 46.4/38

Out: 35.416 ± 19.704 χ^2/NDF : 79.1/42

All: 37.731 ± 14.127 χ^2/NDF : 125.5/81

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 155.082 $\pm$ 0.033 χ^2 /NDF: 1077391.5/15

Left Out: 91.633 $\pm$ 0.015 χ^2 /NDF: 693122.0/24

Right Out: 161.607 $\pm$ 0.034 χ^2 /NDF: 1591226.8/17

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

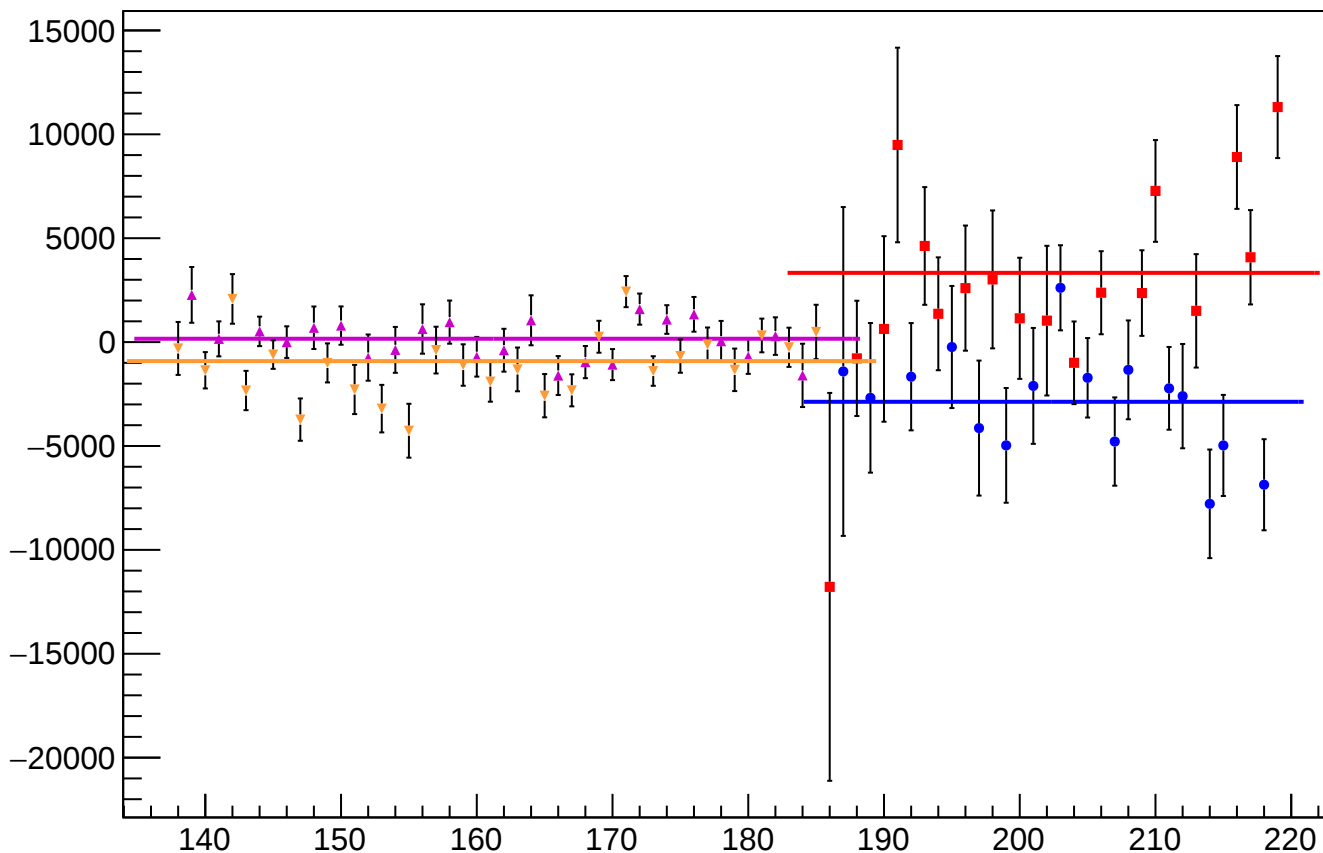
Right: 158.309 $\pm$ 0.024 χ^2 /NDF: 2687586.4/33

In: 104.053 $\pm$ 0.014 χ^2 /NDF: 4612472.9/38

Out: 103.607 $\pm$ 0.014 χ^2 /NDF: 5862013.2/42

All: 103.824 $\pm$ 0.010 χ^2 /NDF: 10474983.8/83

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: -2872.902 $\pm$ 625.262 χ^2 /NDF: 18.3/15

Left Out: -914.719 $\pm$ 185.341 χ^2 /NDF: 64.2/24

Right Out: 3332.538 $\pm$ 638.465 χ^2 /NDF: 32.6/17

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

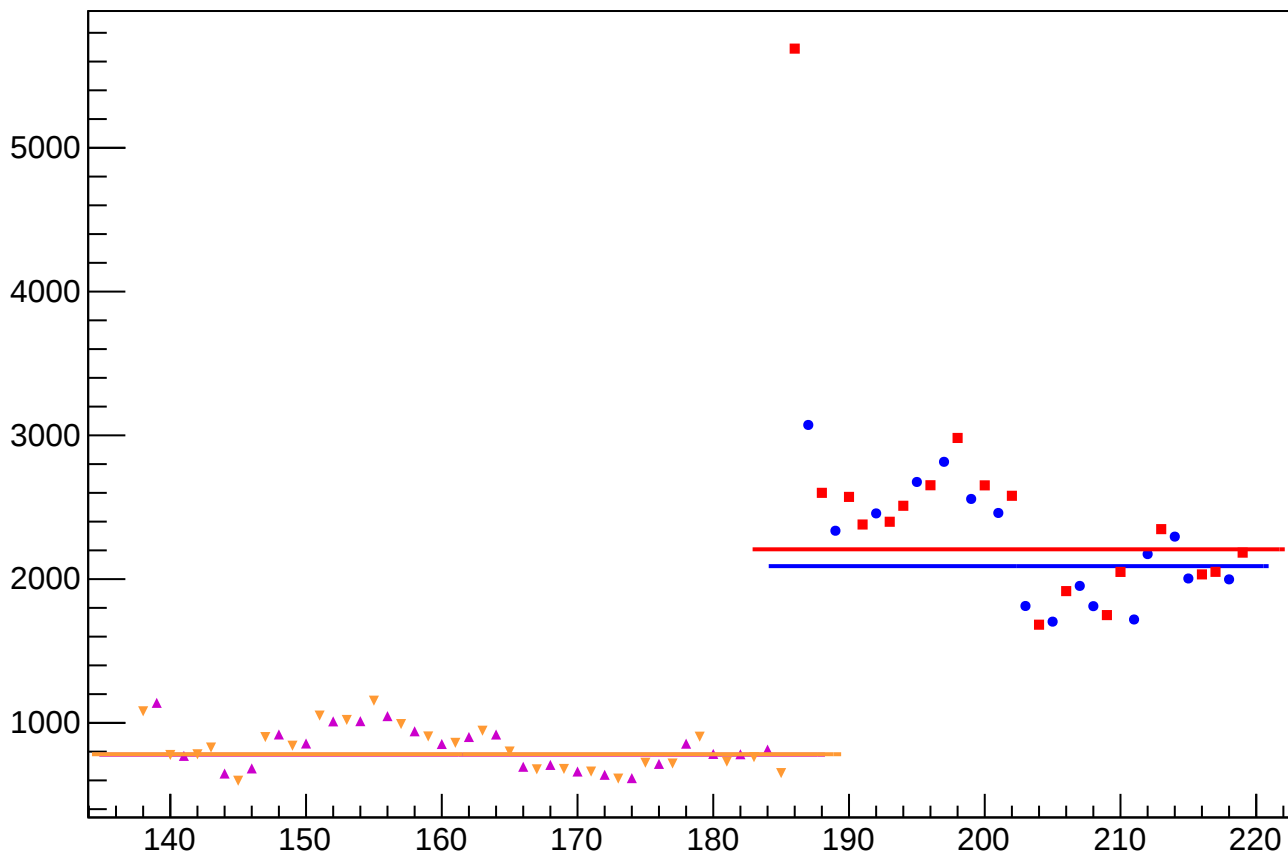
Right: 164.991 $\pm$ 446.722 χ^2 /NDF: 99.1/33

In: -94.137 $\pm$ 181.346 χ^2 /NDF: 65.0/38

Out: -584.624 $\pm$ 177.993 χ^2 /NDF: 137.6/42

All: -343.957 $\pm$ 127.029 χ^2 /NDF: 206.3/81

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 2090.332+/-0.442 χ^2/NDF : 596137.8/15

Left Out: 782.042+/-0.131 χ^2/NDF : 1130984.3/24

Right Out: 2207.331+/-0.451 χ^2/NDF : 902161.2/17

Left In: 778.995+/-0.134 χ^2/NDF : 980243.4/22

Left: 780.552+/-0.094 χ^2/NDF : 2111492.1/47

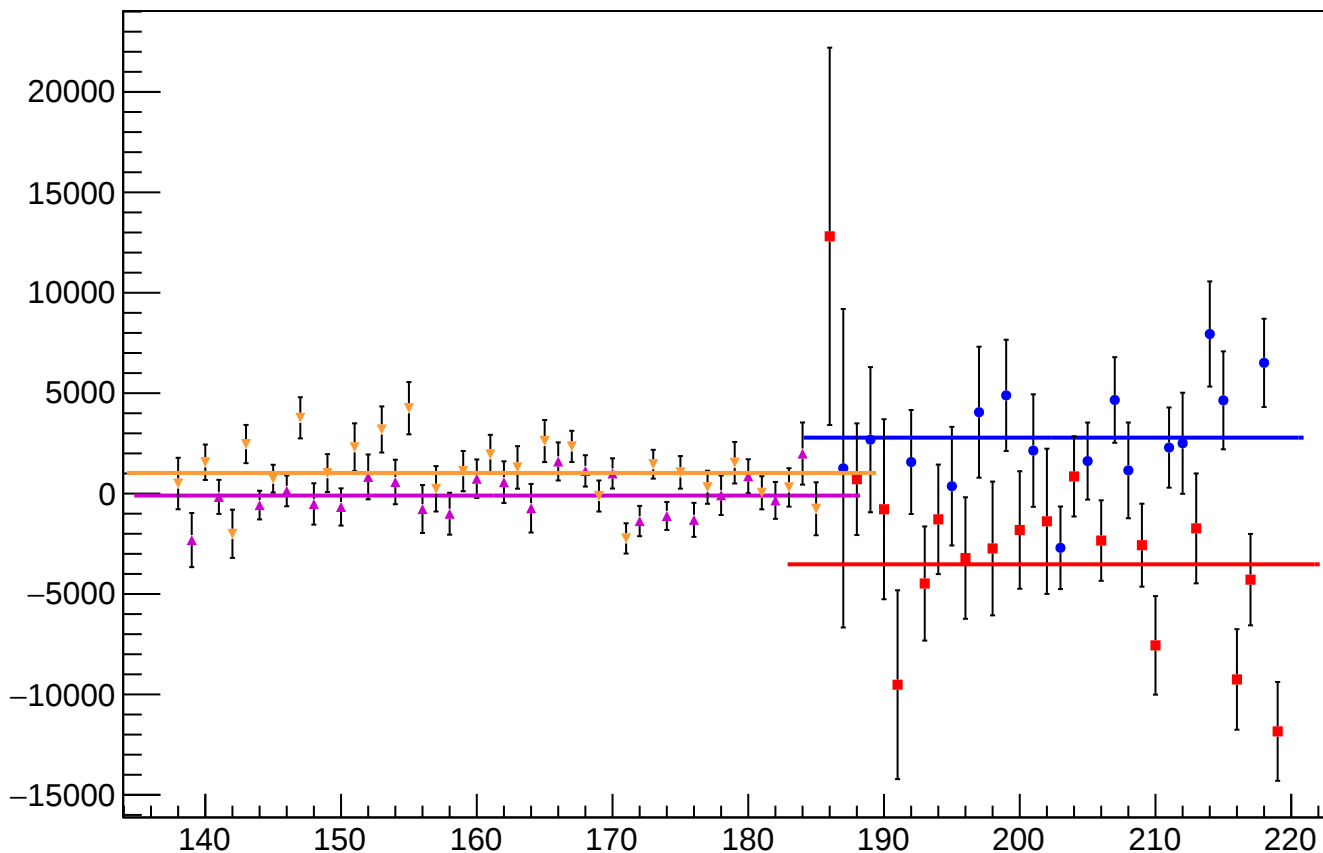
Right: 2147.609+/-0.316 χ^2/NDF : 1532581.7/33

In: 889.302+/-0.128 χ^2/NDF : 9633398.2/38

Out: 892.815+/-0.126 χ^2/NDF : 11225458.8/42

All: 891.091+/-0.090 χ^2/NDF : 20859239.2/83

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 2786.097 $\pm$ 627.192 χ^2 /NDF: 17.8/15

Left Out: 1028.864 $\pm$ 186.810 χ^2 /NDF:60.2/24

Right Out: -3521.611 $\pm$ 640.416 χ^2 /NDF: 34.2/17

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

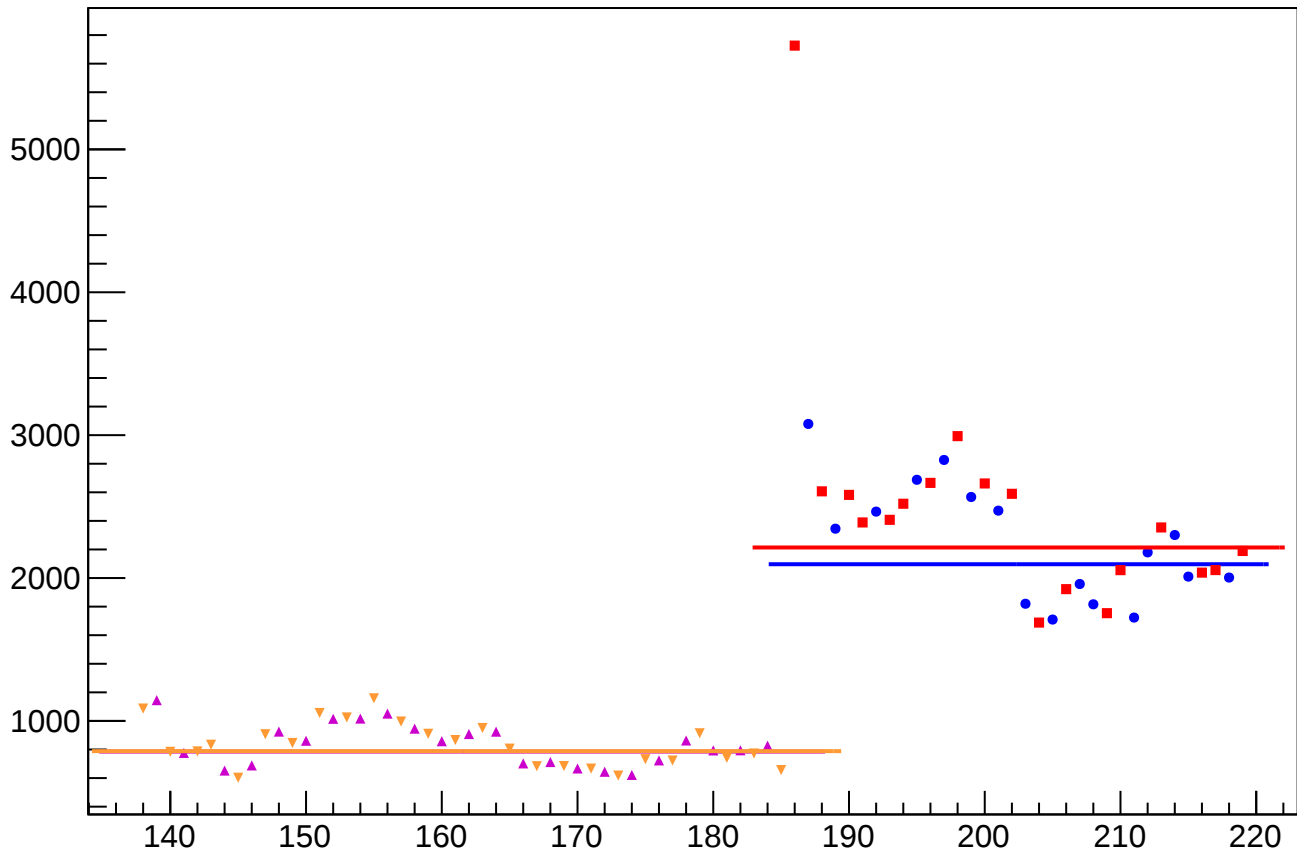
Right: -301.960 $\pm$ 448.094 χ^2 /NDF: 101.5/33

In: 146.201 $\pm$ 182.739 χ^2 /NDF:62.6/38

Out: 672.028 $\pm$ 179.336 χ^2 /NDF:140.9/42

All: 414.056 $\pm$ 127.996 χ^2 /NDF: 207.7/81

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 2096.665 $\pm$ 0.443 χ^2 /NDF: 598632.8/15

Left Out: 788.442 $\pm$ 0.132 χ^2 /NDF: 1113741.6/24

Right Out: 2213.892 $\pm$ 0.453 χ^2 /NDF: 906331.4/17

Left In: 785.490 $\pm$ 0.135 χ^2 /NDF: 965338.9/22

Left: 786.999 $\pm$ 0.094 χ^2 /NDF: 2079324.6/47

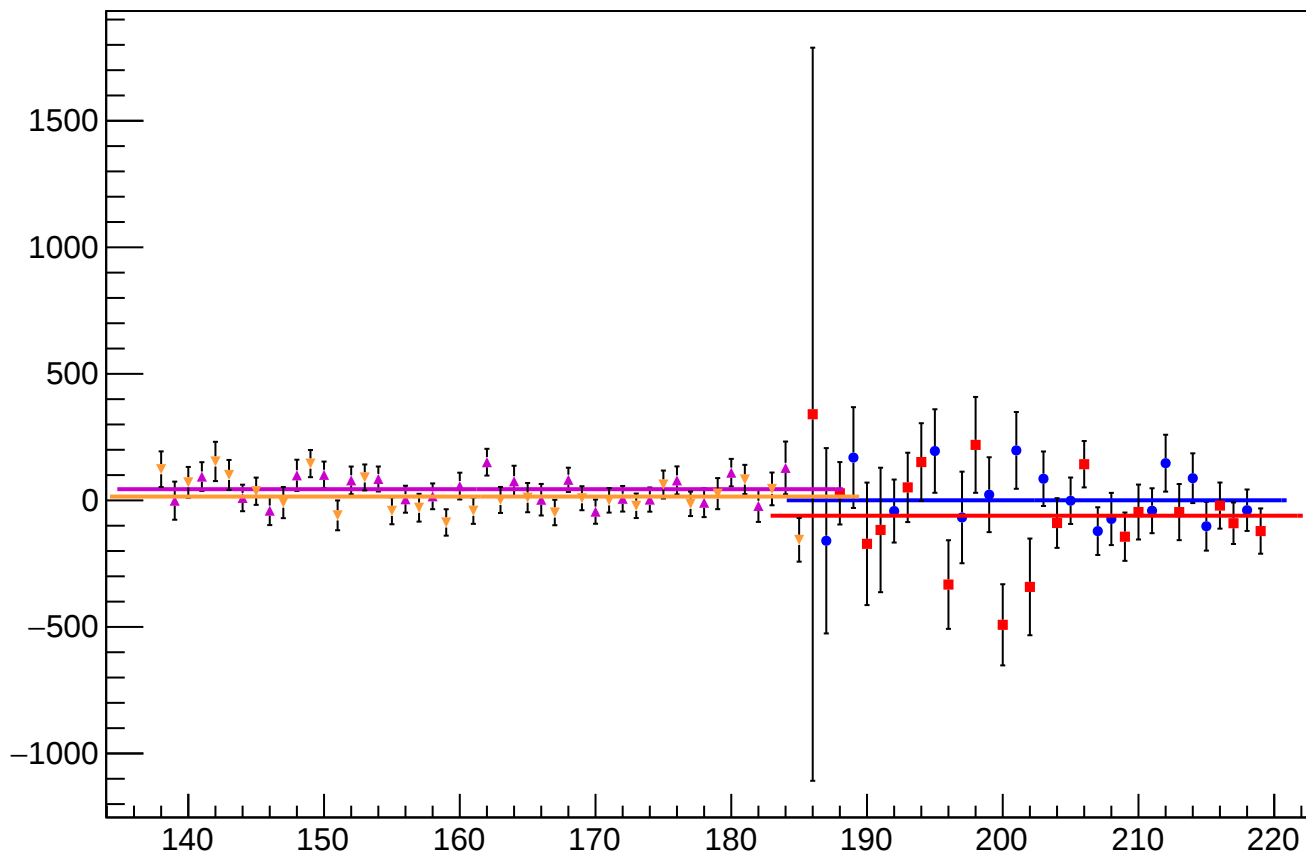
Right: 2154.055 $\pm$ 0.317 χ^2 /NDF: 1539169.9/33

In: 896.797 $\pm$ 0.129 χ^2 /NDF: 9562745.2/38

Out: 900.222 $\pm$ 0.127 χ^2 /NDF: 11151617.3/42

All: 898.542 $\pm$ 0.091 χ^2 /NDF: 20714720.3/81

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 0.417 ± 28.496 $\chi^2/\text{NDF}: 11.1/15$

Left Out: 15.099 ± 11.154 $\chi^2/\text{NDF}: 34.2/24$

Right Out: -60.531 ± 28.690 $\chi^2/\text{NDF}: 24.0/17$

Left In: 44.297 ± 11.530 $\chi^2/\text{NDF}: 22.3/22$

Left: 29.215 ± 8.017 $\chi^2/\text{NDF}: 59.8/47$

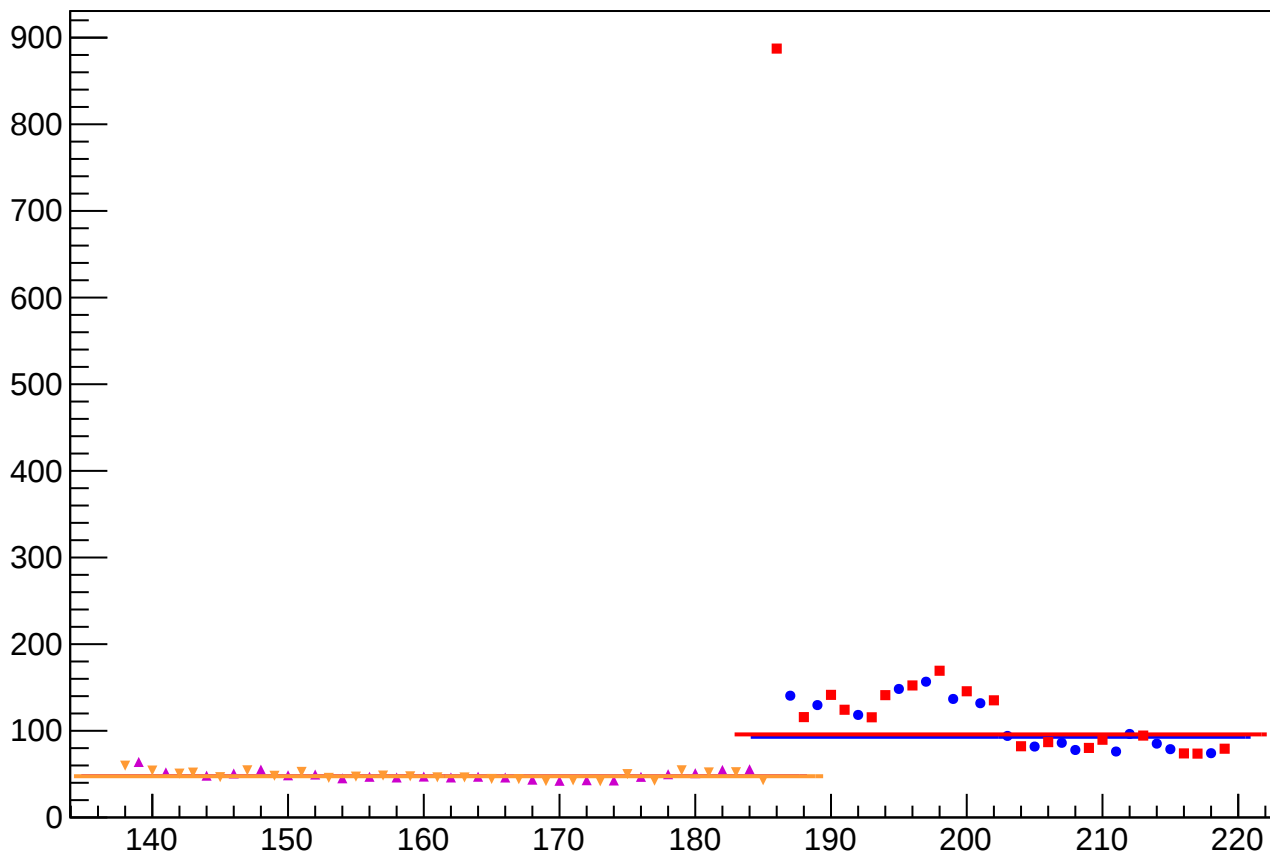
Right: -29.850 ± 20.218 $\chi^2/\text{NDF}: 37.4/33$

In: 38.124 ± 10.688 $\chi^2/\text{NDF}: 35.5/38$

Out: 5.168 ± 10.396 $\chi^2/\text{NDF}: 64.2/42$

All: 21.190 ± 7.452 $\chi^2/\text{NDF}: 104.6/81$

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 93.112 $\pm$ 0.020 χ^2 /NDF: 1282619.1/15

Left Out: 47.586 $\pm$ 0.008 χ^2 /NDF: 312874.8/24

Right Out: 95.847 $\pm$ 0.020 χ^2 /NDF: 2198049.1/17

Left In: 47.846 $\pm$ 0.008 χ^2 /NDF: 281790.1/22

Left: 47.712 $\pm$ 0.006 χ^2 /NDF: 595189.7/47

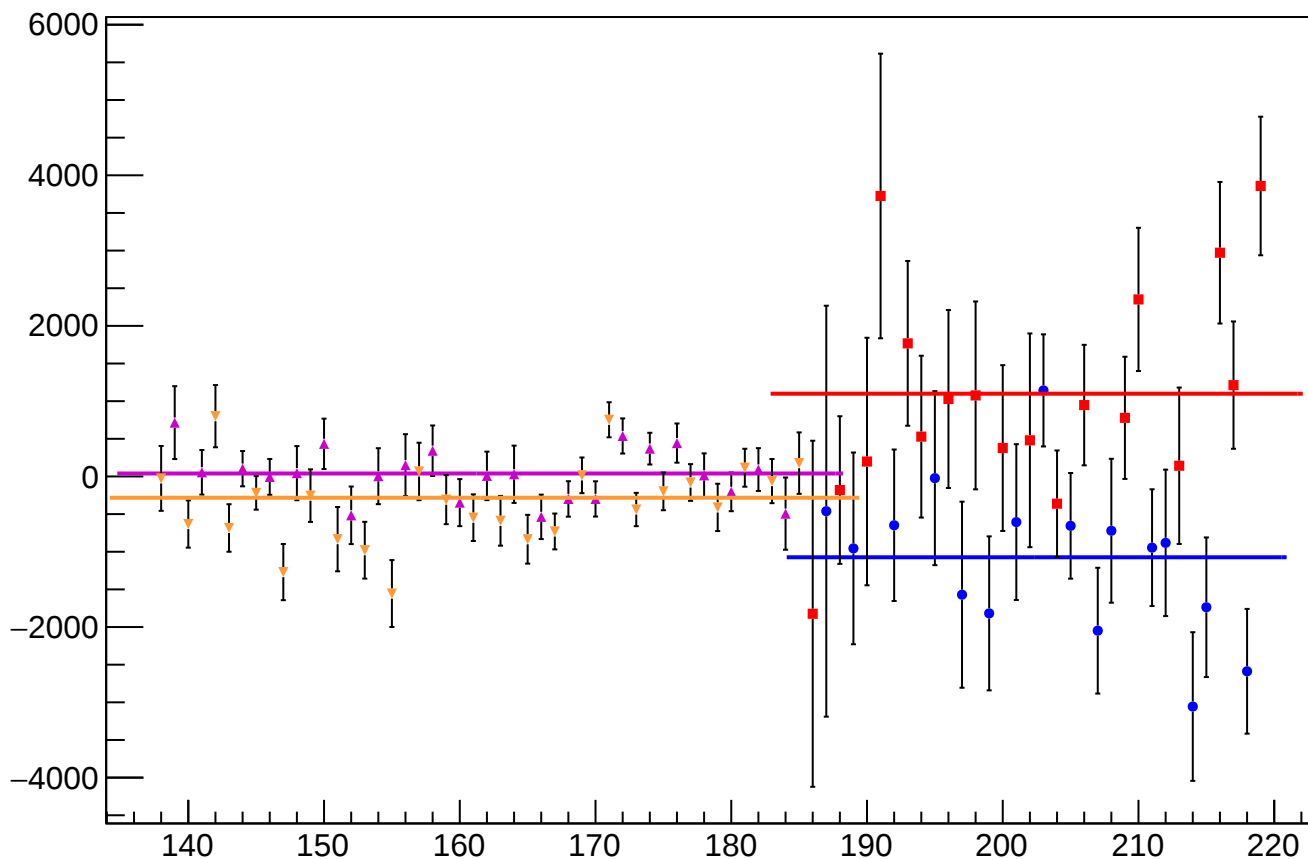
Right: 94.470 $\pm$ 0.014 χ^2 /NDF: 3489822.5/33

In: 54.214 $\pm$ 0.008 χ^2 /NDF: 5901081.9/38

Out: 53.923 $\pm$ 0.007 χ^2 /NDF: 7427077.1/42

All: 54.065 $\pm$ 0.005 χ^2 /NDF: 13328919.5/81

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: -1073.483 ± 237.286 $\chi^2/\text{NDF}: 20.6/15$

Left Out: -282.798 ± 59.690 $\chi^2/\text{NDF}: 66.5/24$

Right Out: 1099.211 ± 241.932 $\chi^2/\text{NDF}: 26.8/17$

Left In: 39.432 ± 60.759 $\chi^2/\text{NDF}: 27.5/22$

Left: -124.543 ± 42.580 $\chi^2/\text{NDF}: 108.4/47$

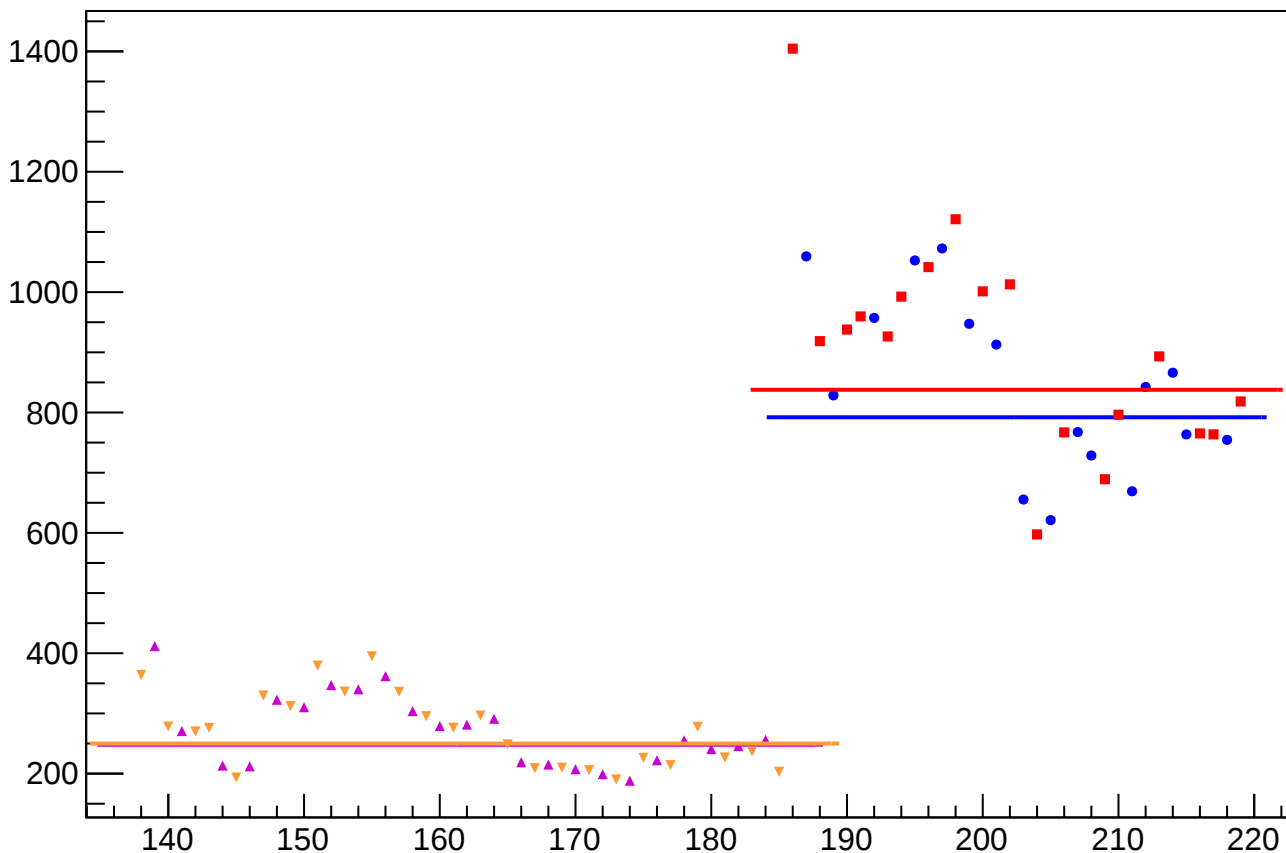
Right: -8.198 ± 169.405 $\chi^2/\text{NDF}: 88.6/33$

In: -29.047 ± 58.860 $\chi^2/\text{NDF}: 68.8/38$

Out: -203.501 ± 57.952 $\chi^2/\text{NDF}: 124.1/42$

All: -117.629 ± 41.296 $\chi^2/\text{NDF}: 197.4/81$

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 792.081+/-0.168 χ^2/NDF : 622172.1/15

Left Out: 249.956+/-0.042 χ^2/NDF : 1614205.9/24

Right Out: 837.781+/-0.171 χ^2/NDF : 794013.0/17

Left In: 247.917+/-0.043 χ^2/NDF : 1410847.5/22

Left: 248.955+/-0.030 χ^2/NDF : 3026200.1/47

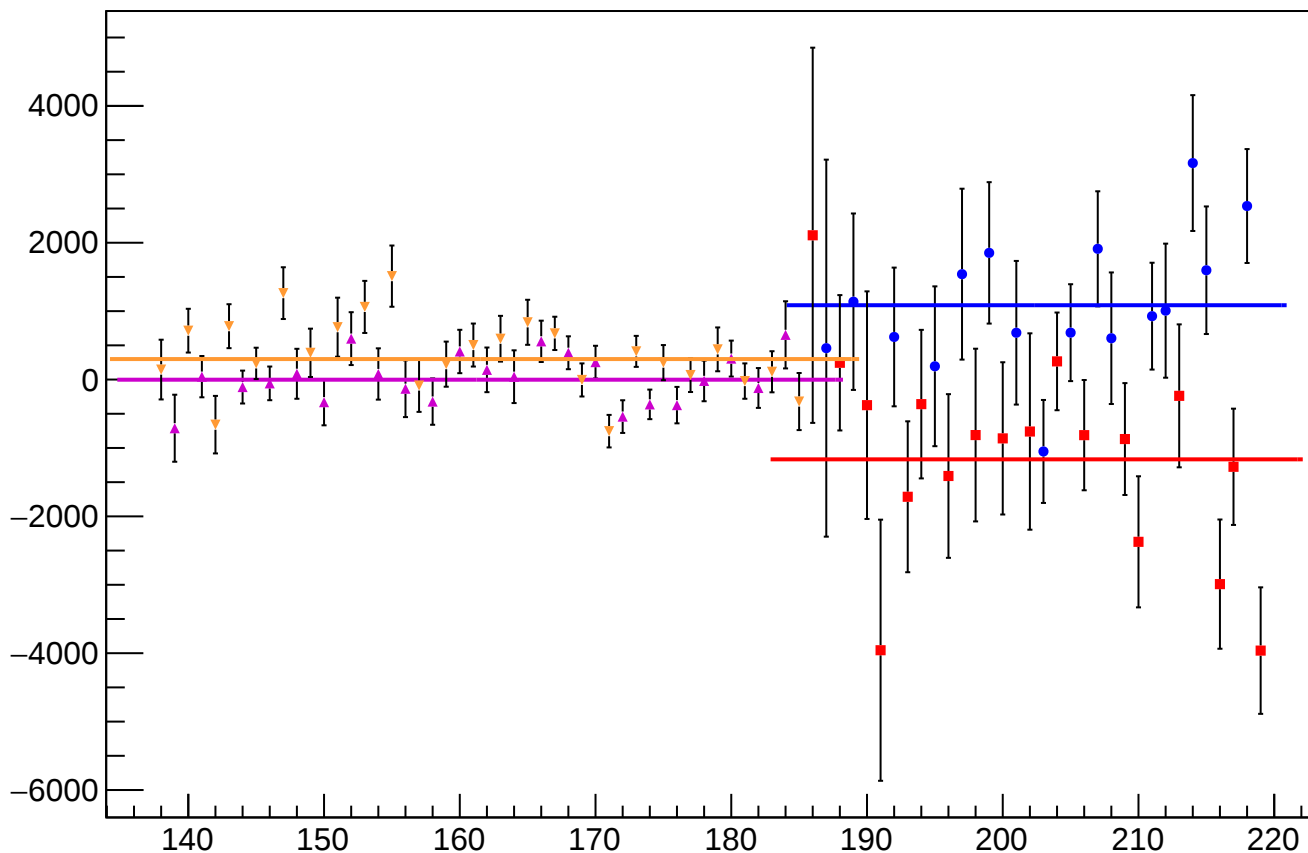
Right: 814.488+/-0.120 χ^2/NDF : 1452559.7/33

In: 281.400+/-0.042 χ^2/NDF : 11904079.1/38

Out: 283.685+/-0.041 χ^2/NDF : 13537719.6/42

All: 282.560+/-0.029 χ^2/NDF : 25443329.5/83

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 1086.556 $\pm$ 239.284 χ^2 /NDF: 19.0/15

Left Out: 299.562 $\pm$ 60.860 χ^2 /NDF:62.5/24

Right Out: -1166.350 $\pm$ 244.294 χ^2 /NDF: 26.5/17

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

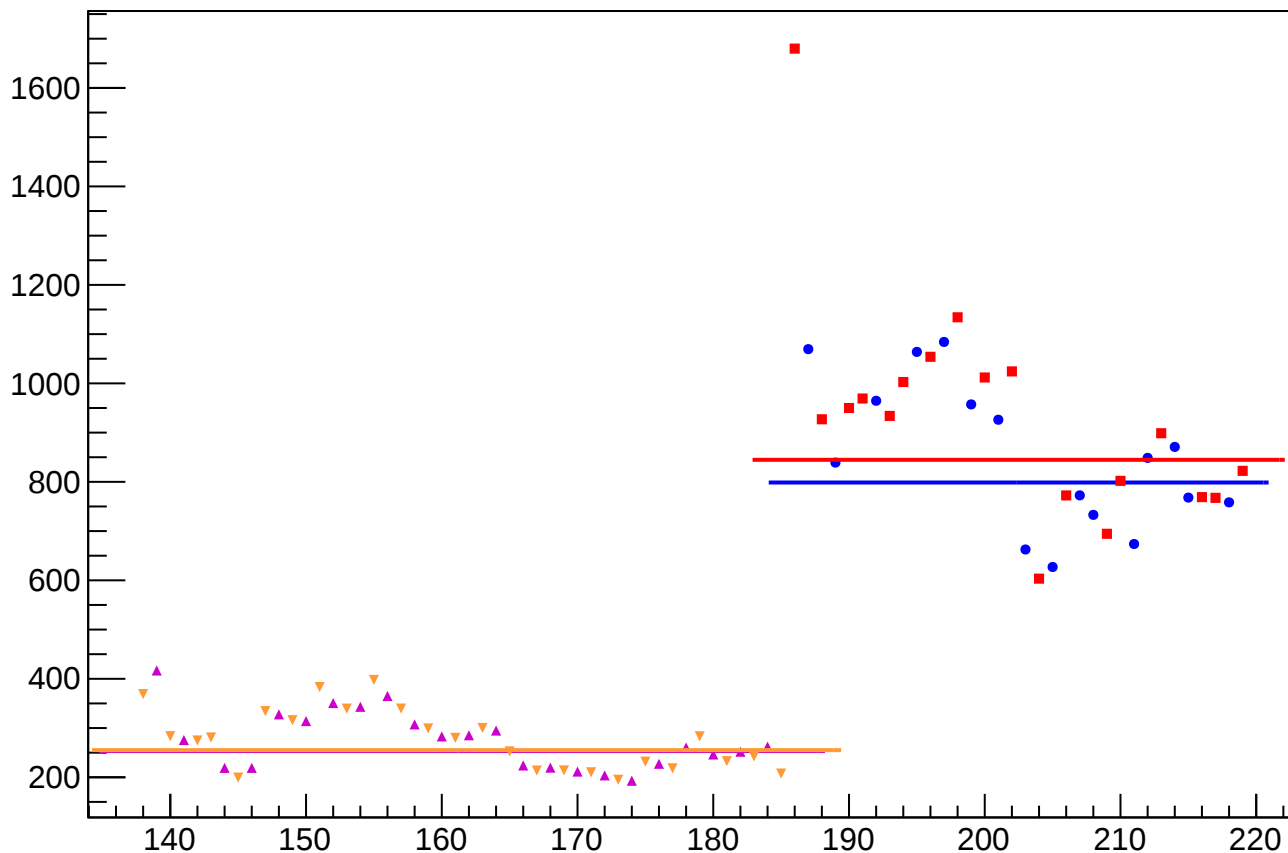
Right: -16.559 $\pm$ 170.943 χ^2 /NDF: 88.9/33

In: 66.320 $\pm$ 60.022 χ^2 /NDF:67.6/38

Out: 213.899 $\pm$ 59.055 χ^2 /NDF:122.9/42

All: 141.309 $\pm$ 42.096 χ^2 /NDF: 193.6/81

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 798.664 $\pm$ 0.169 χ^2 /NDF: 626935.1/15

Left Out: 255.135 $\pm$ 0.043 χ^2 /NDF: 1542039.5/24

Right Out: 844.769 $\pm$ 0.173 χ^2 /NDF: 865991.5/17

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

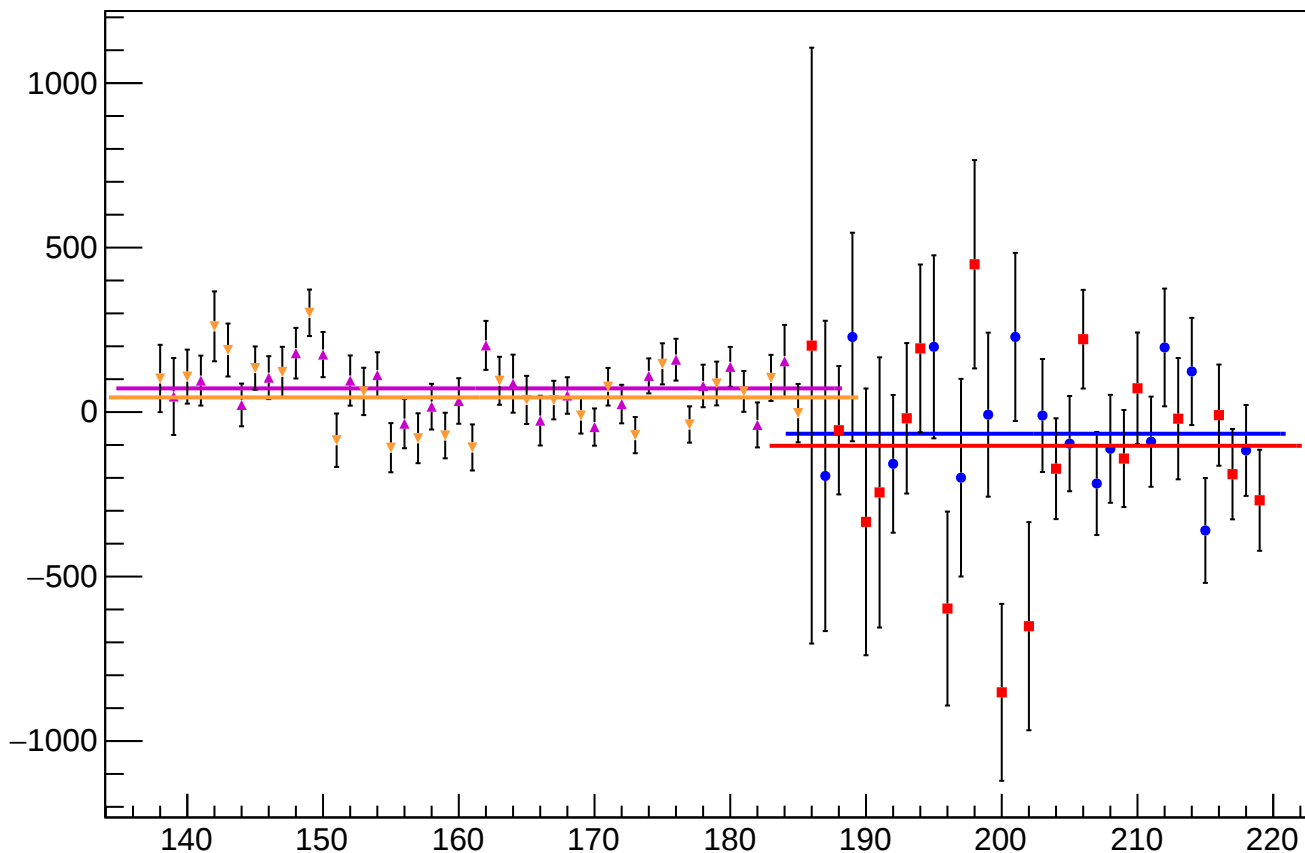
Right: 821.239 $\pm$ 0.121 χ^2 /NDF: 1529284.0/33

In: 287.603 $\pm$ 0.042 χ^2 /NDF: 11704397.3/38

Out: 289.591 $\pm$ 0.042 χ^2 /NDF: 13378382.2/42

All: 288.614 $\pm$ 0.030 χ^2 /NDF: 25083894.6/83

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: -65.854 ± 46.317 $\chi^2/\text{NDF}: 11.8/15$

Left Out: 44.602 ± 13.824 $\chi^2/\text{NDF}: 53.9/24$

Right Out: -102.459 ± 46.927 $\chi^2/\text{NDF}: 26.8/17$

Left In: 72.037 ± 14.296 $\chi^2/\text{NDF}: 25.3/22$

Left: 57.859 ± 9.938 $\chi^2/\text{NDF}: 81.1/47$

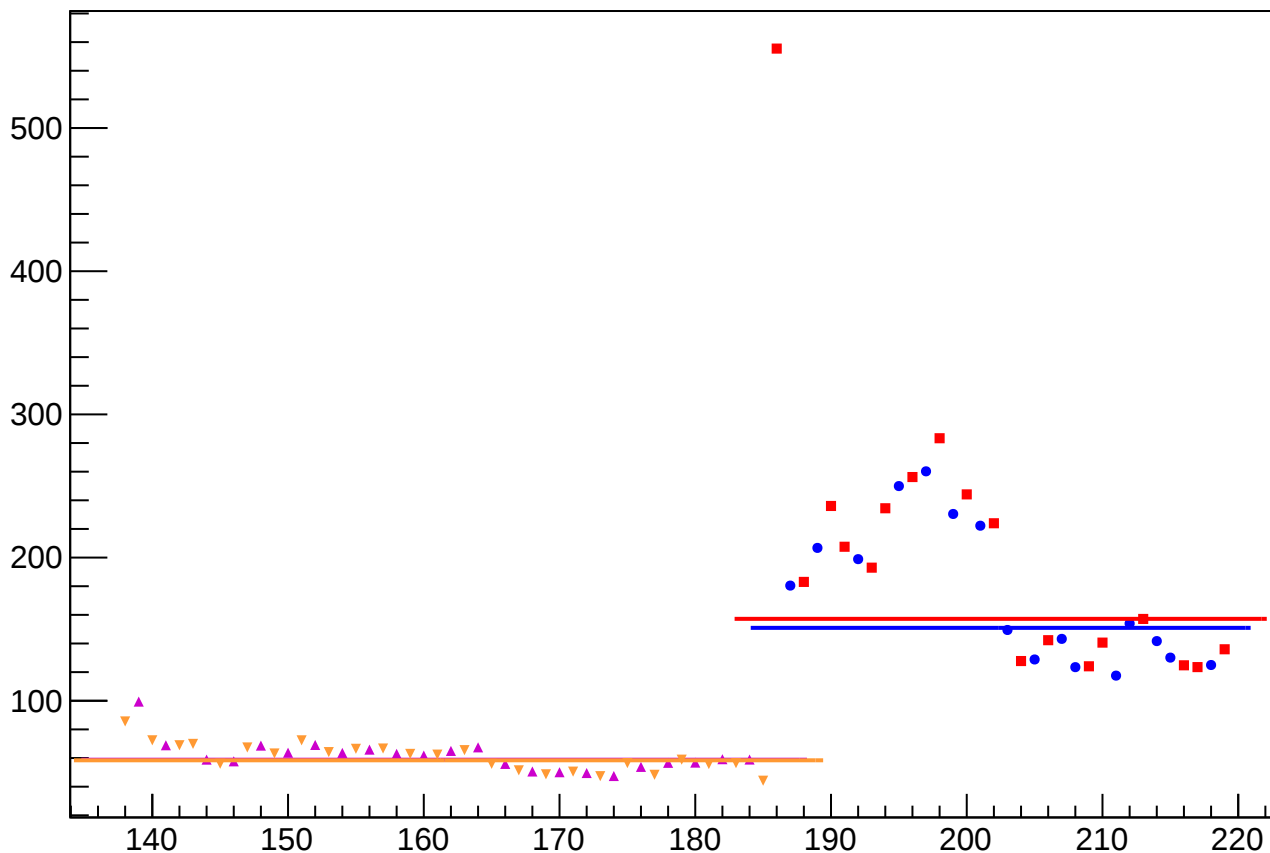
Right: -83.917 ± 32.965 $\chi^2/\text{NDF}: 39.0/33$

In: 60.042 ± 13.660 $\chi^2/\text{NDF}: 45.2/38$

Out: 32.858 ± 13.261 $\chi^2/\text{NDF}: 89.8/42$

All: 46.047 ± 9.515 $\chi^2/\text{NDF}: 137.1/81$

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 150.923 $\pm$ 0.033 χ^2 /NDF: 1390238.3/15

Left Out: 58.423 $\pm$ 0.010 χ^2 /NDF: 790091.3/24

Right Out: 157.219 $\pm$ 0.033 χ^2 /NDF: 2062121.8/17

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

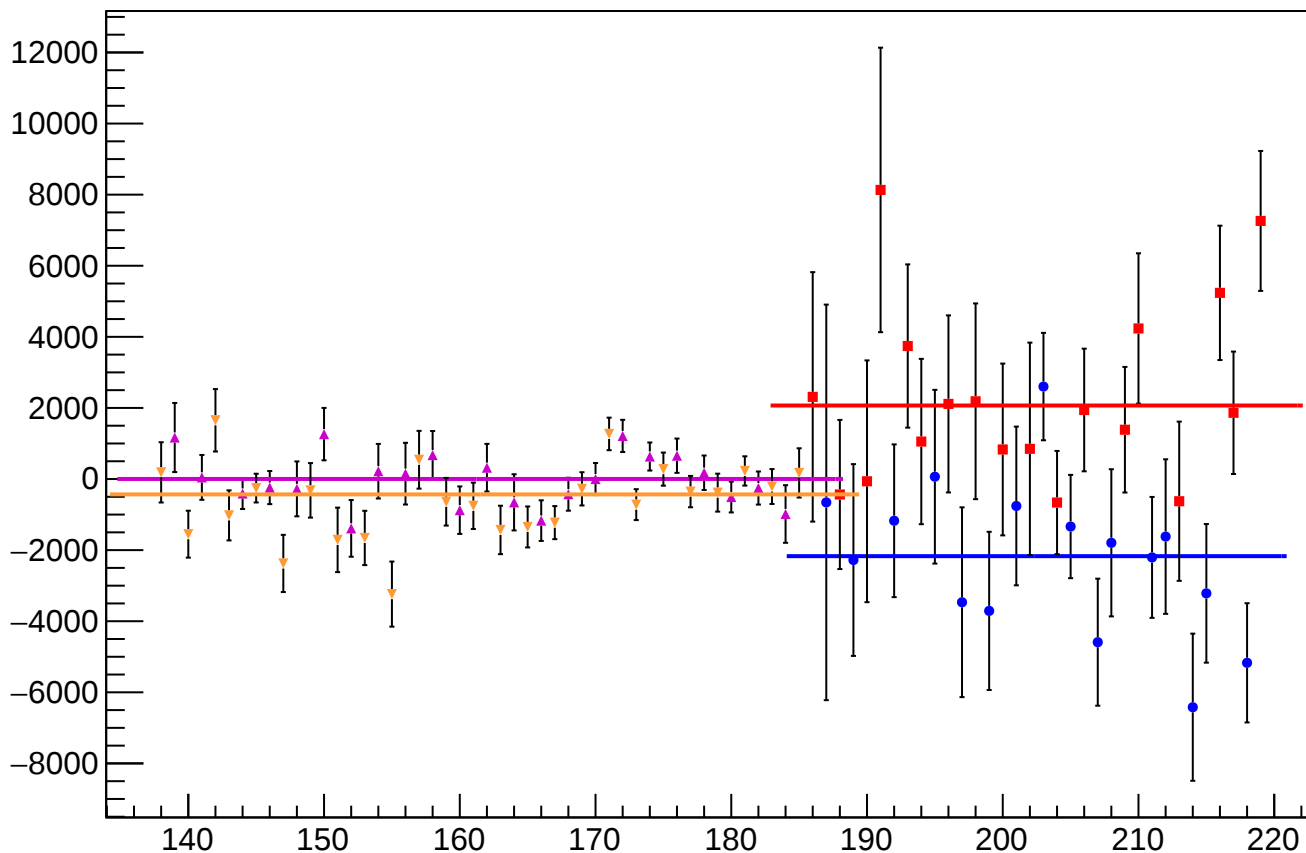
Right: 154.030 $\pm$ 0.023 χ^2 /NDF: 3470593.1/33

In: 66.850 $\pm$ 0.010 χ^2 /NDF: 9287725.0/38

Out: 66.312 $\pm$ 0.009 χ^2 /NDF: 11009121.1/42

All: 66.573 $\pm$ 0.007 χ^2 /NDF: 20298440.5/81

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: -2169.866 $\pm$ 502.220 χ^2 /NDF: 22.2/15

Left Out: -432.330 $\pm$ 114.408 χ^2 /NDF:59.4/24

Right Out: 2068.251 $\pm$ 510.462 χ^2 /NDF: 21.2/17

Left In: 1.825 $\pm$ 116.459 χ^2 /NDF:32.3/22

Left: -219.109 $\pm$ 81.614 χ^2 /NDF: 98.8/47

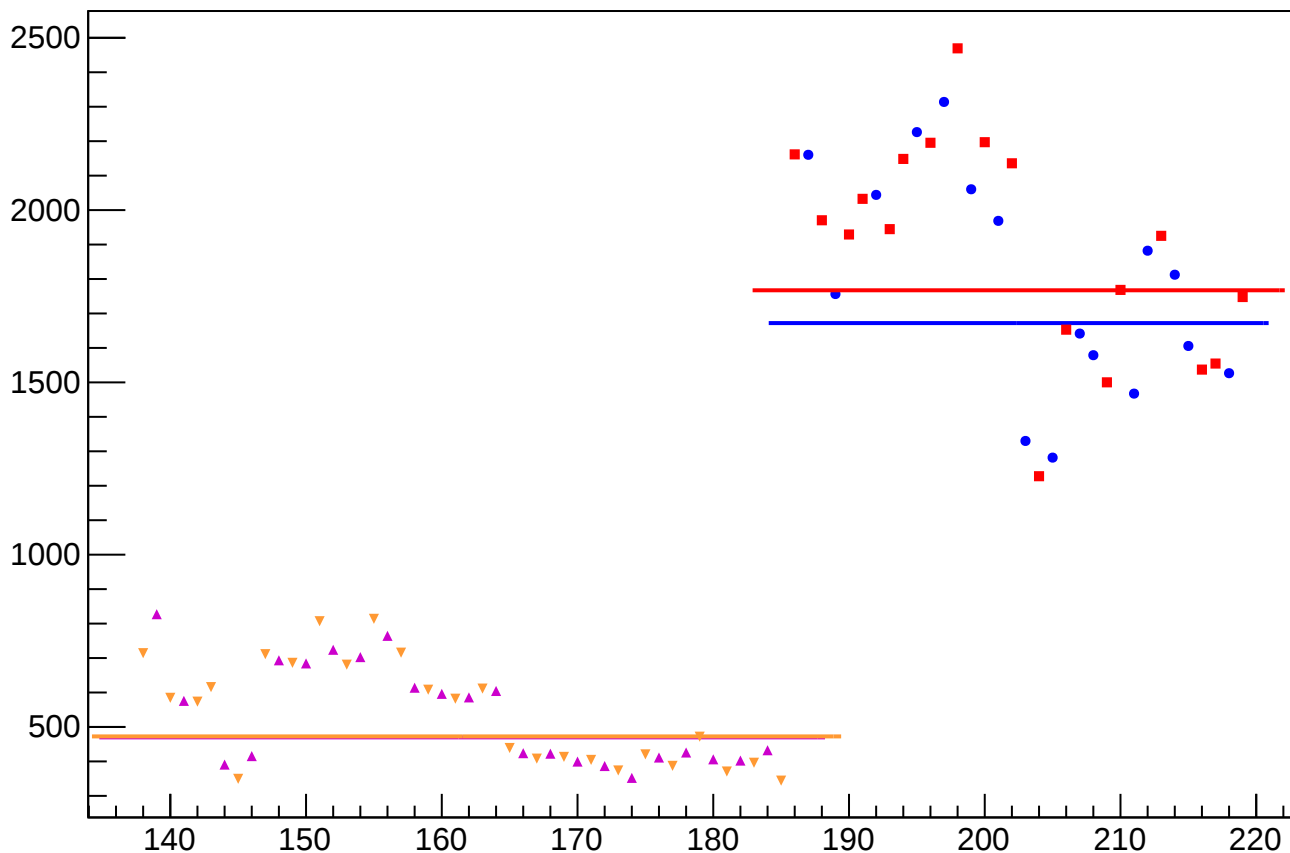
Right: -85.299 $\pm$ 358.002 χ^2 /NDF: 78.4/33

In: -108.992 $\pm$ 113.449 χ^2 /NDF:72.2/38

Out: -312.727 $\pm$ 111.638 χ^2 /NDF:103.5/42

All: -212.498 $\pm$ 79.573 χ^2 /NDF: 177.3/81

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 1672.088+/-0.355 χ^2/NDF : 717879.4/15

Left Out: 472.569+/-0.081 χ^2/NDF :2508168.9/24

Right Out: 1767.267+/-0.361 χ^2/NDF : 807117.2/17

Left In: 469.761+/-0.082 χ^2/NDF :2116885.7/22

Left: 471.190+/-0.058 χ^2/NDF : 4625646.2/47

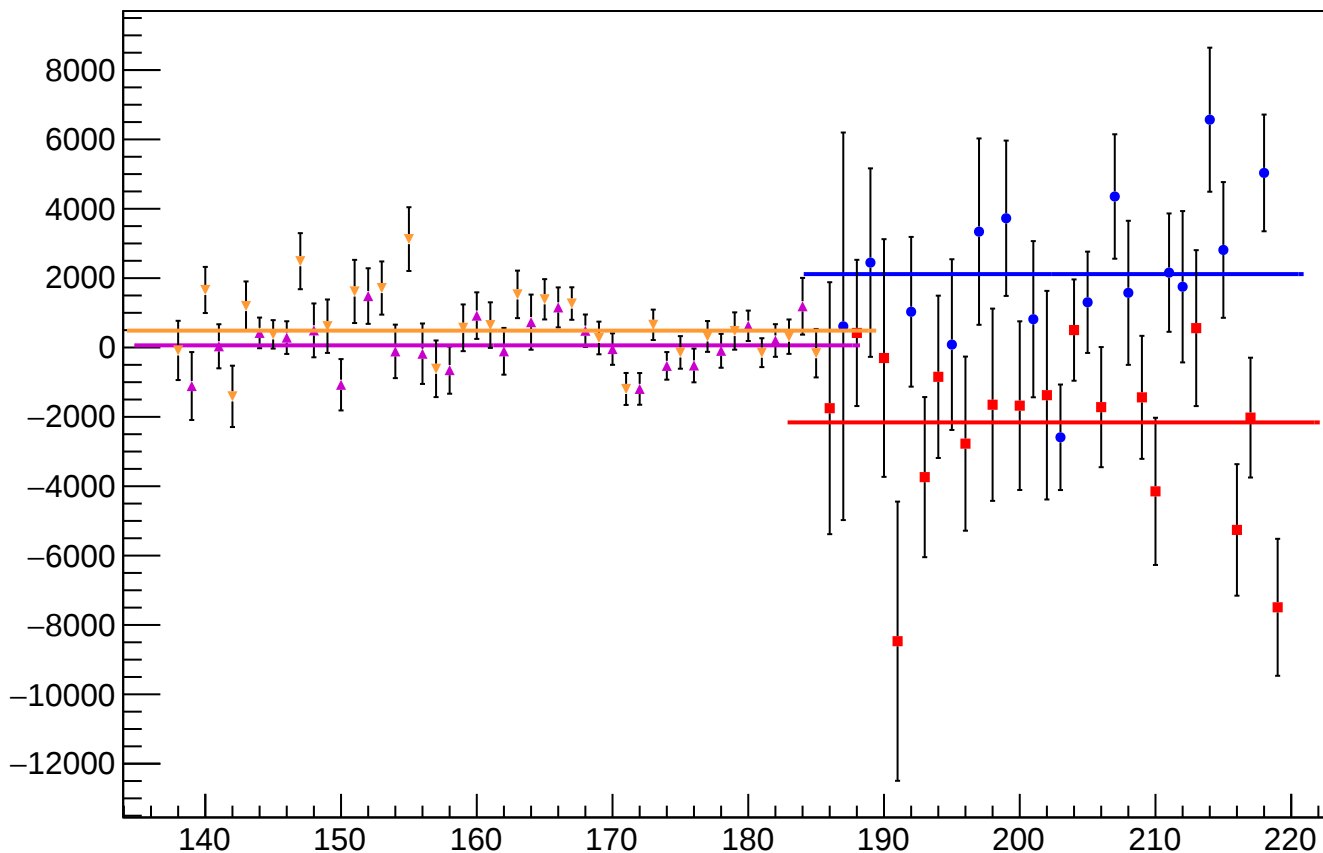
Right: 1718.903+/-0.253 χ^2/NDF : 1560328.5/33

In: 531.114+/-0.080 χ^2/NDF :13712557.8/38

Out: 534.494+/-0.079 χ^2/NDF :15565813.9/42

All: 532.831+/-0.056 χ^2/NDF : 29279273.8/83

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 2116.500+/-504.725 χ^2/NDF : 21.3/15

Left Out: 486.645+/-115.346 χ^2/NDF :56.0/24

Right Out: -2159.608+/-513.232 χ^2/NDF : 21.1/17

Left In: 61.775+/-117.449 χ^2/NDF :31.2/22

Left: 278.047+/-82.295 χ^2/NDF : 93.8/47

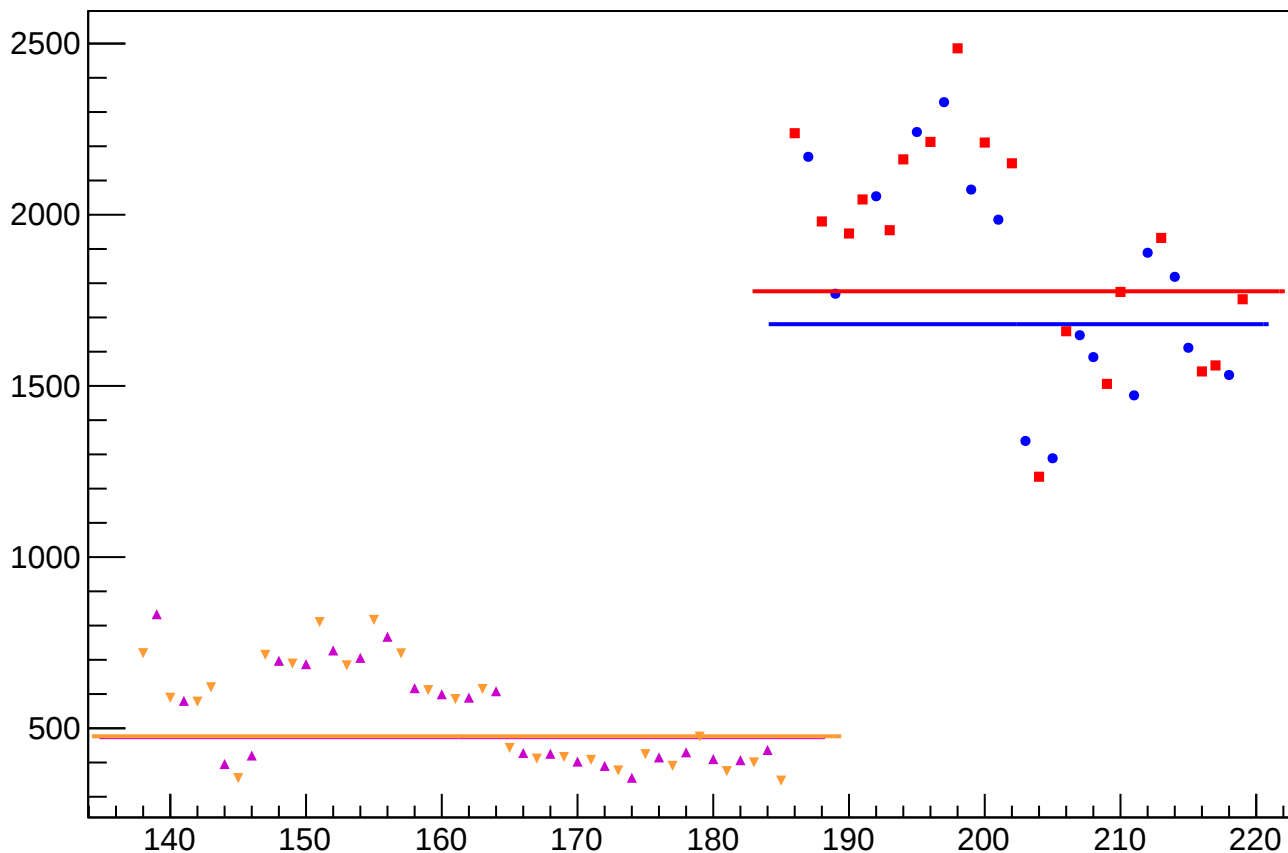
Right: 14.180+/-359.864 χ^2/NDF : 77.7/33

In: 167.320+/-114.393 χ^2/NDF :68.2/38

Out: 359.409+/-112.539 χ^2/NDF :102.4/42

All: 264.934+/-80.224 χ^2/NDF : 172.1/81

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1680.326+/-0.357 χ^2/NDF : 720511.1/15

Left Out: 476.690+/-0.082 χ^2/NDF : 2472737.6/24

Right Out: 1776.420+/-0.363 χ^2/NDF : 819802.9/17

Left In: 473.983+/-0.083 χ^2/NDF : 2087113.7/22

Left: 475.361+/-0.058 χ^2/NDF : 4560392.0/47

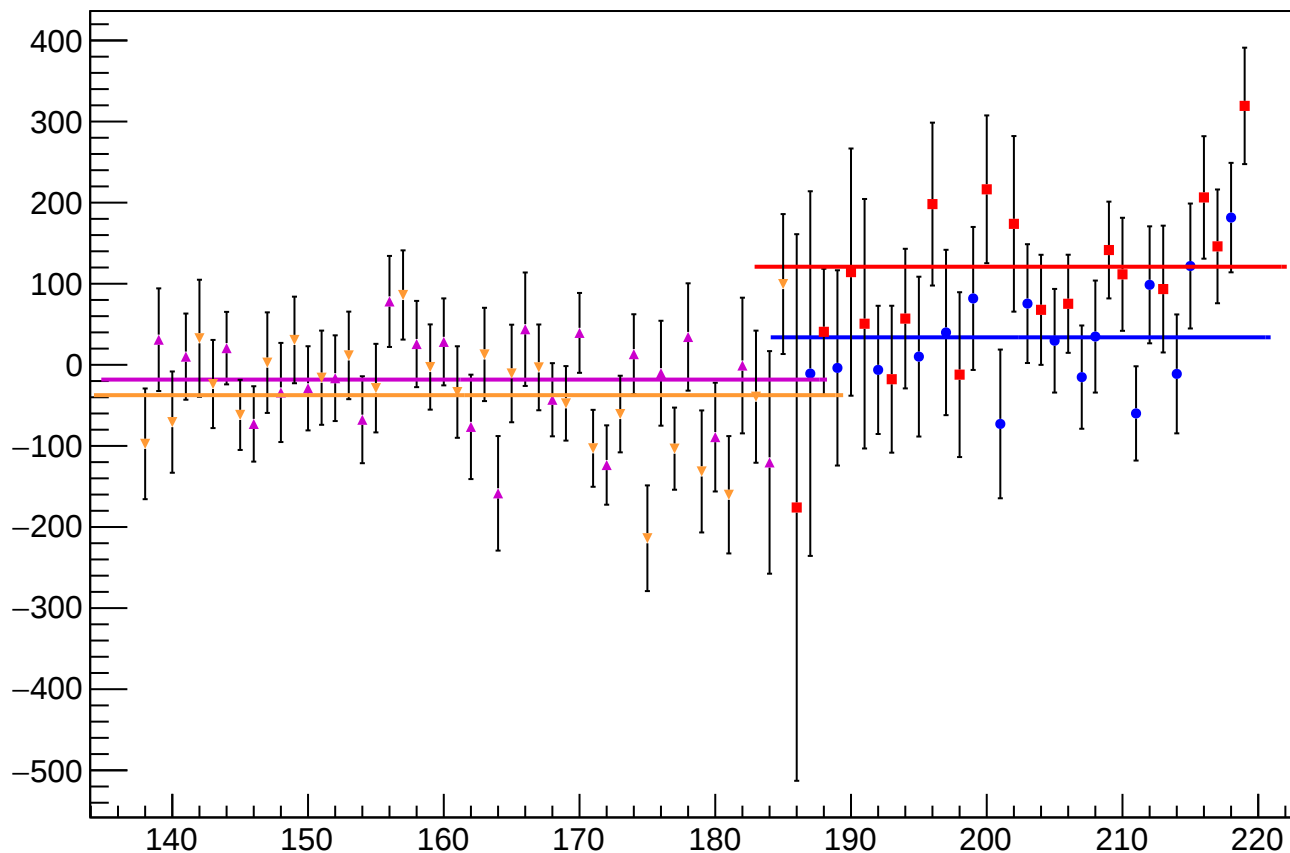
Right: 1727.570+/-0.254 χ^2/NDF : 1575955.8/33

In: 535.950+/-0.081 χ^2/NDF : 13645910.3/38

Out: 539.183+/-0.080 χ^2/NDF : 15502341.6/42

All: 537.593+/-0.057 χ^2/NDF : 29149063.7/83

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 33.912 ± 19.443 $\chi^2/\text{NDF}: 12.9/15$

Left Out: -37.413 ± 11.390 $\chi^2/\text{NDF}: 30.5/24$

Right Out: 120.968 ± 19.495 $\chi^2/\text{NDF}: 19.1/17$

Left In: -18.210 ± 11.788 $\chi^2/\text{NDF}: 23.0/22$

Left: -28.141 ± 8.191 $\chi^2/\text{NDF}: 54.8/47$

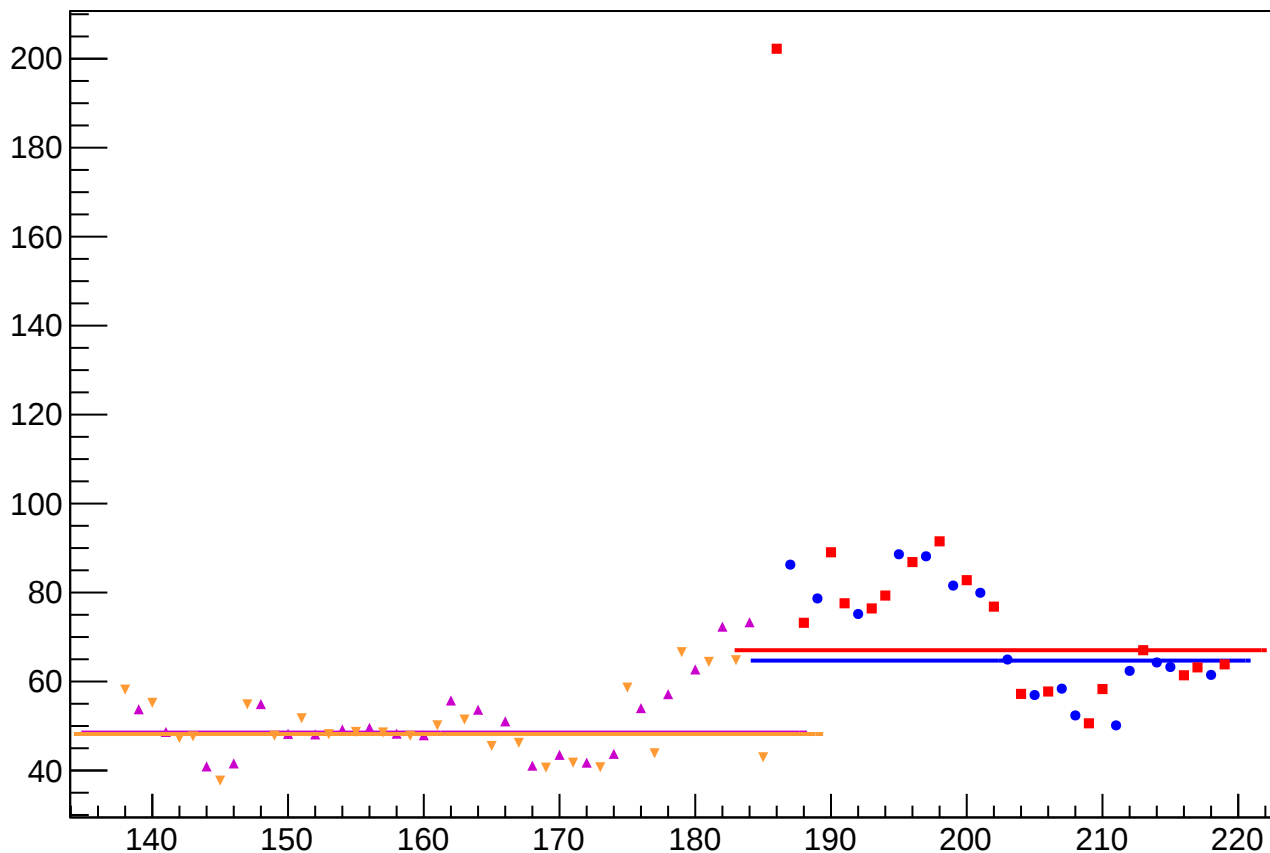
Right: 77.325 ± 13.767 $\chi^2/\text{NDF}: 42.0/33$

In: -4.201 ± 10.080 $\chi^2/\text{NDF}: 41.2/38$

Out: 2.892 ± 9.834 $\chi^2/\text{NDF}: 98.8/42$

All: -0.567 ± 7.039 $\chi^2/\text{NDF}: 140.2/81$

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.701 $\pm$ 0.014 χ^2 /NDF: 677938.8/15

Left Out: 48.200 $\pm$ 0.008 χ^2 /NDF: 750196.2/24

Right Out: 67.038 $\pm$ 0.014 χ^2 /NDF: 1010830.6/17

Left In: 48.527 $\pm$ 0.008 χ^2 /NDF: 675340.8/22

Left: 48.358 $\pm$ 0.006 χ^2 /NDF: 1426333.4/47

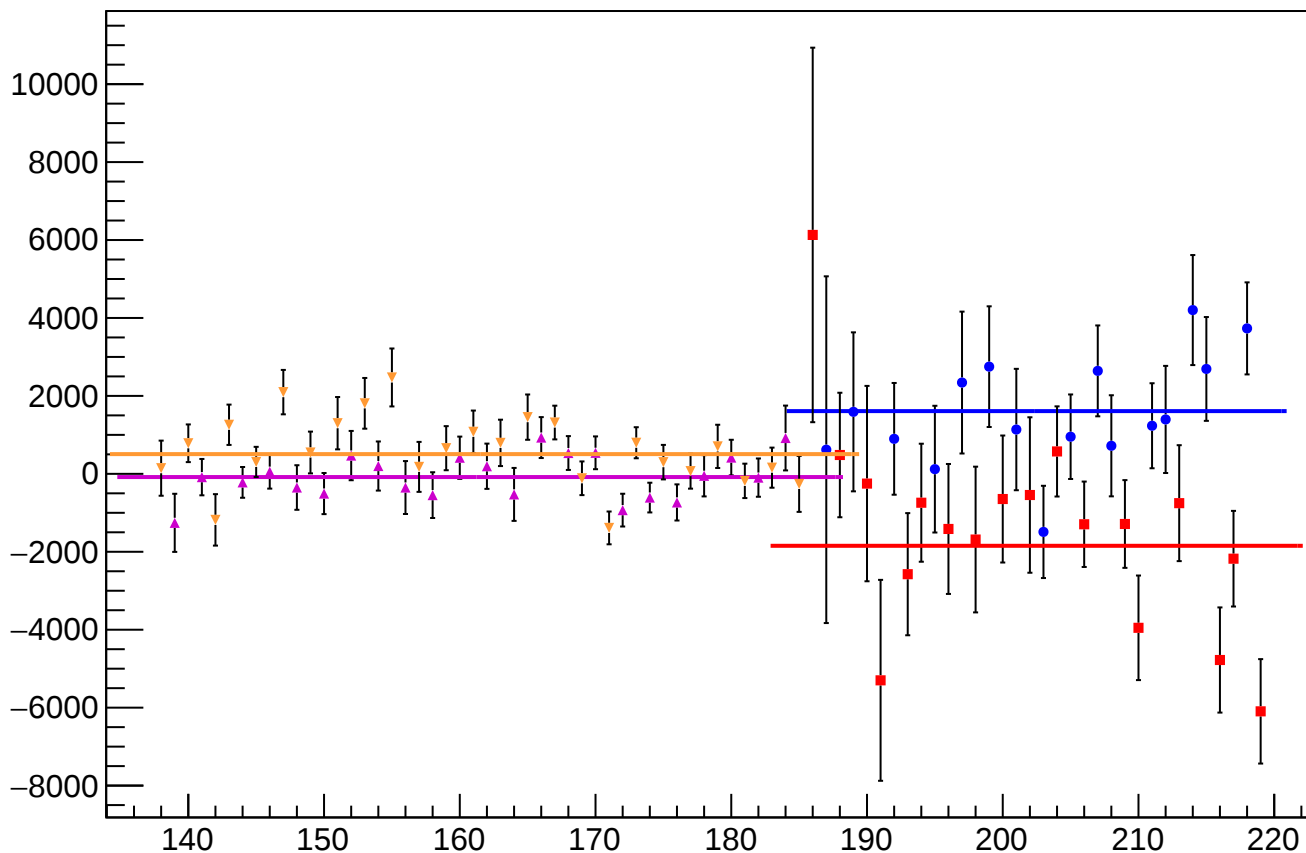
Right: 65.867 $\pm$ 0.010 χ^2 /NDF: 1703179.8/33

In: 52.874 $\pm$ 0.007 χ^2 /NDF: 2365332.7/38

Out: 52.994 $\pm$ 0.007 χ^2 /NDF: 3153410.9/42

All: 52.935 $\pm$ 0.005 χ^2 /NDF: 5518888.3/81

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 1609.777 $\pm$ 346.433 χ^2/NDF : 17.8/15

Left Out: 506.205 $\pm$ 103.468 χ^2/NDF : 65.7/24

Right Out: -1846.423 $\pm$ 353.359 χ^2/NDF : 31.6/17

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

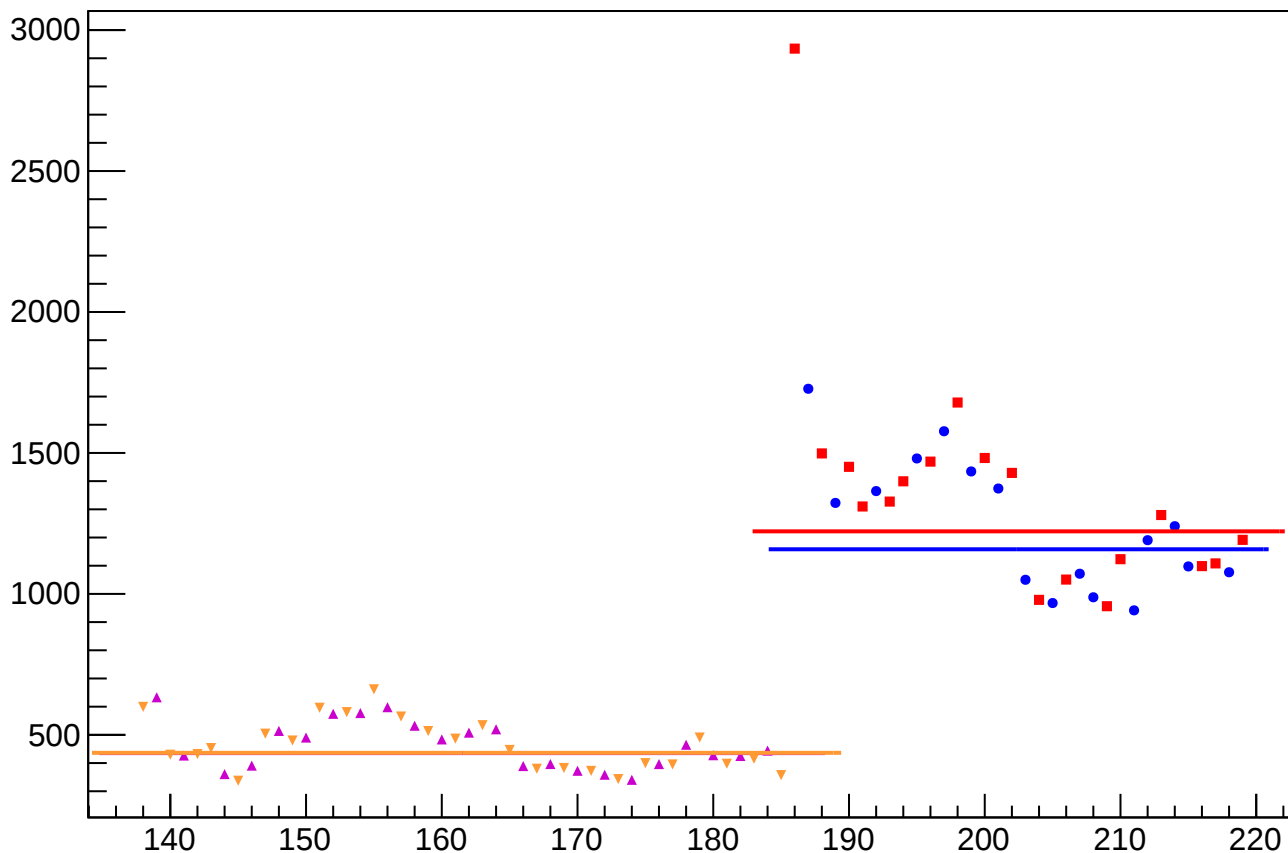
Right: -84.119 $\pm$ 247.378 χ^2/NDF : 98.2/33

In: 62.280 $\pm$ 101.305 χ^2/NDF : 65.0/38

Out: 320.423 $\pm$ 99.298 χ^2/NDF : 138.1/42

All: 193.933 $\pm$ 70.913 χ^2/NDF : 206.4/81

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1158.301+/-0.245 χ^2/NDF : 597886.6/15

Left Out: 436.301+/-0.073 χ^2/NDF : 1179348.4/24

Right Out: 1221.913+/-0.250 χ^2/NDF : 902505.7/17

Left In: 435.275+/-0.075 χ^2/NDF : 1027713.1/22

Left: 435.800+/-0.052 χ^2/NDF : 2207157.7/47

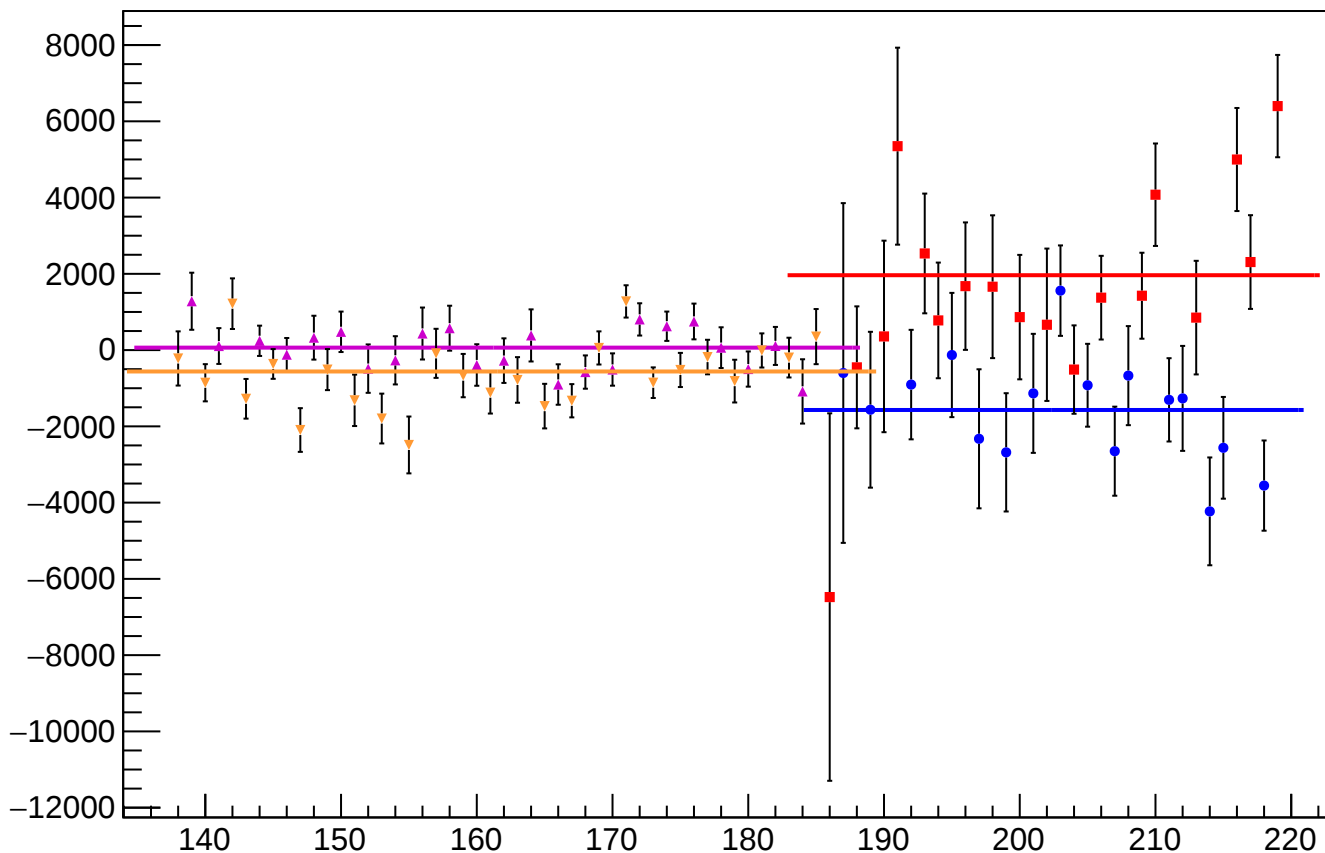
Right: 1189.477+/-0.175 χ^2/NDF : 1533441.2/33

In: 497.102+/-0.072 χ^2/NDF : 9592288.3/38

Out: 498.340+/-0.070 χ^2/NDF : 11187019.5/42

All: 497.733+/-0.050 χ^2/NDF : 20779460.2/83

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -1570.484 ± 347.010 $\chi^2/\text{NDF}: 17.5/15$

Left Out: -560.684 ± 104.207 $\chi^2/\text{NDF}: 61.8/24$

Right Out: 1963.961 ± 353.931 $\chi^2/\text{NDF}: 33.3/17$

Left In: 64.594 ± 106.708 $\chi^2/\text{NDF}: 25.2/22$

Left: -255.457 ± 74.554 $\chi^2/\text{NDF}: 104.5/47$

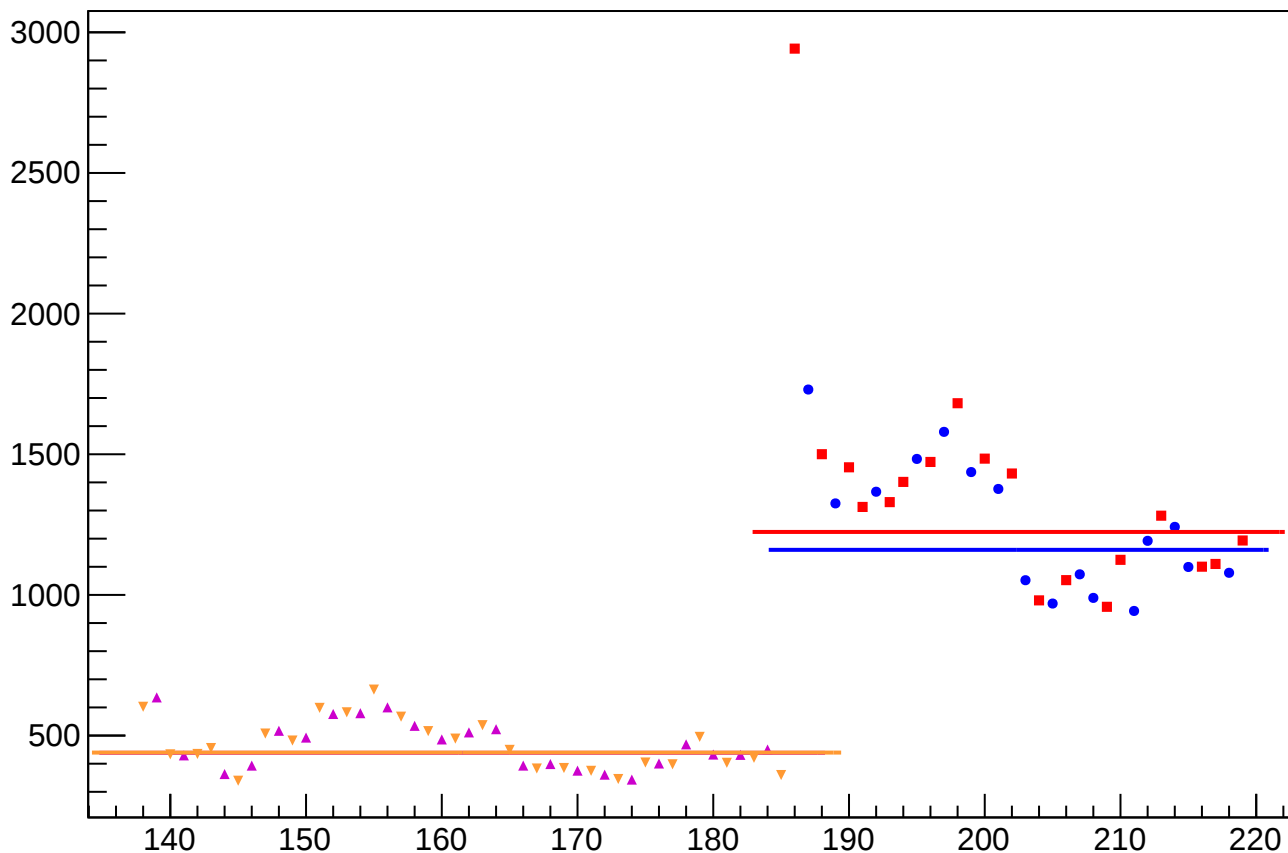
Right: 161.841 ± 247.784 $\chi^2/\text{NDF}: 101.6/33$

In: -76.661 ± 101.994 $\chi^2/\text{NDF}: 62.9/38$

Out: -359.287 ± 99.964 $\chi^2/\text{NDF}: 141.9/42$

All: -220.815 ± 71.392 $\chi^2/\text{NDF}: 208.7/81$

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 1160.225+/-0.245 χ^2/NDF : 598253.8/15

Left Out: 439.527+/-0.074 χ^2/NDF :1163352.8/24

Right Out: 1223.878+/-0.250 χ^2/NDF : 903197.8/17

Left In: 438.548+/-0.075 χ^2/NDF :1013071.4/22

Left: 439.049+/-0.053 χ^2/NDF : 2176510.4/47

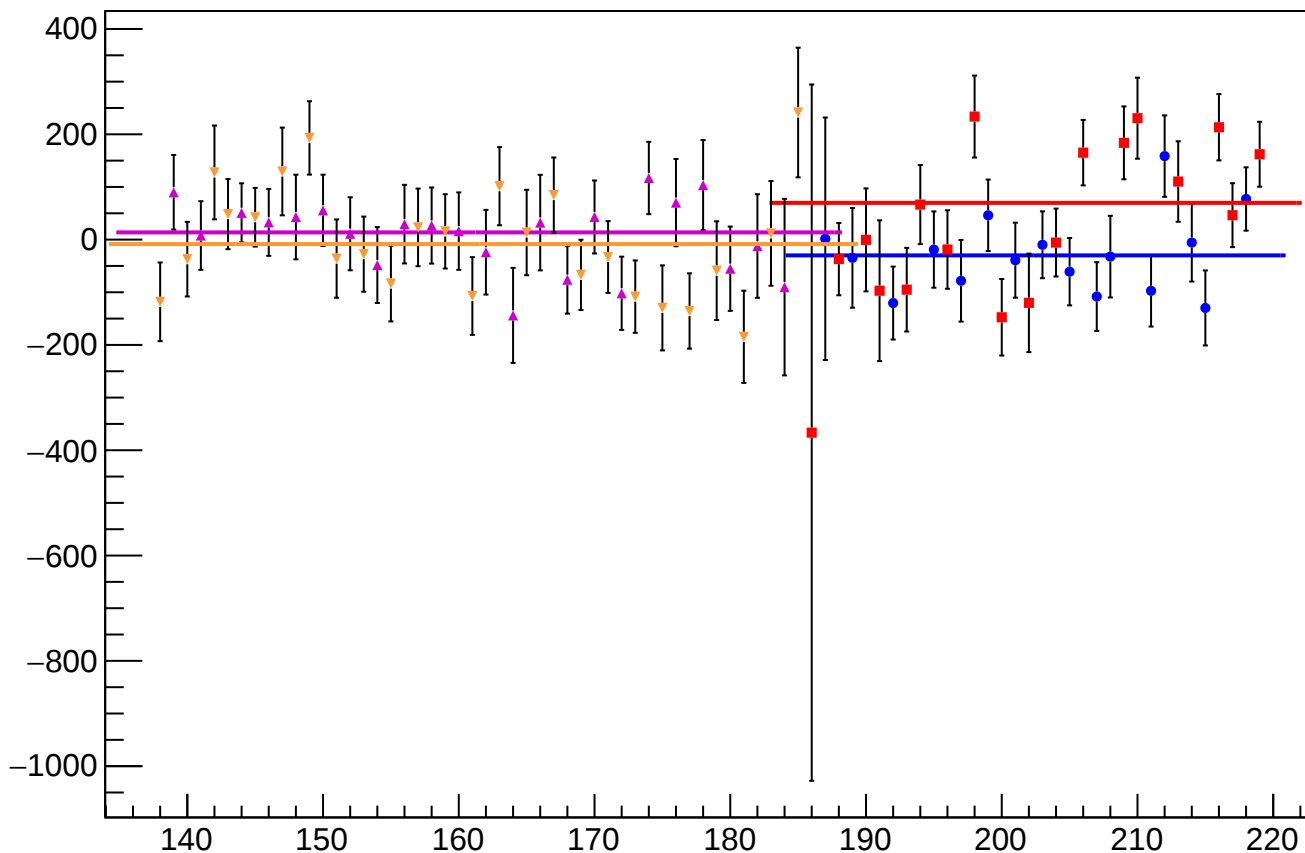
Right: 1191.423+/-0.175 χ^2/NDF : 1534434.0/33

In: 500.894+/-0.072 χ^2/NDF :9514341.9/38

Out: 502.096+/-0.071 χ^2/NDF :11105282.3/42

All: 501.507+/-0.050 χ^2/NDF : 20619766.0/83

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -29.968 ± 18.124 χ^2/NDF : 17.4/15

Left Out: -8.416 ± 14.935 χ^2/NDF : 41.6/24

Right Out: 69.741 ± 17.694 χ^2/NDF : 46.8/17

Left In: 13.723 ± 15.478 χ^2/NDF : 16.3/22

Left: 2.258 ± 10.747 χ^2/NDF : 58.9/47

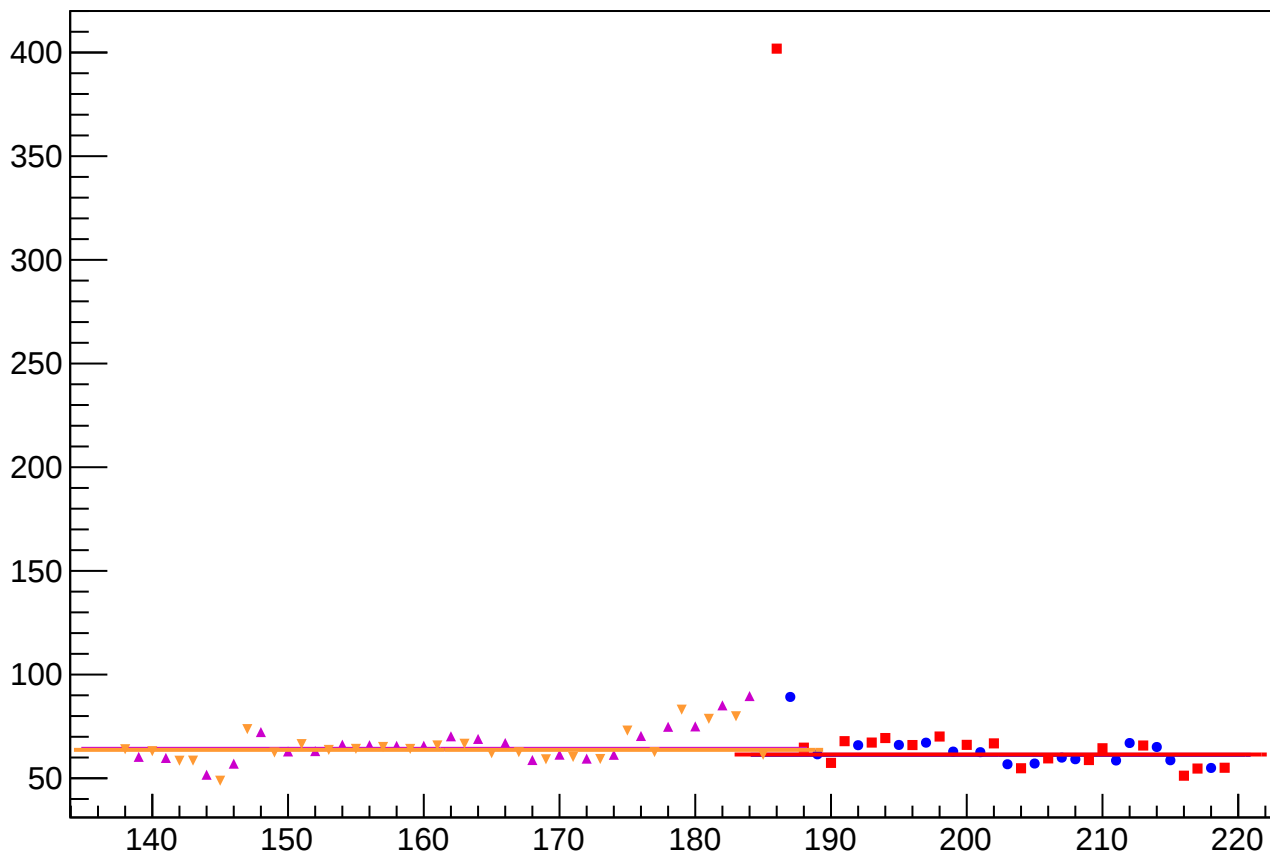
Right: 21.086 ± 12.661 χ^2/NDF : 79.7/33

In: -4.703 ± 11.770 χ^2/NDF : 37.0/38

Out: 24.101 ± 11.413 χ^2/NDF : 99.8/42

All: 10.143 ± 8.193 χ^2/NDF : 139.9/81

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.285 $\pm$ 0.013 χ^2 /NDF: 125599.2/15

Left Out: 63.696 $\pm$ 0.011 χ^2 /NDF: 448439.3/24

Right Out: 61.453 $\pm$ 0.013 χ^2 /NDF: 757318.6/17

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

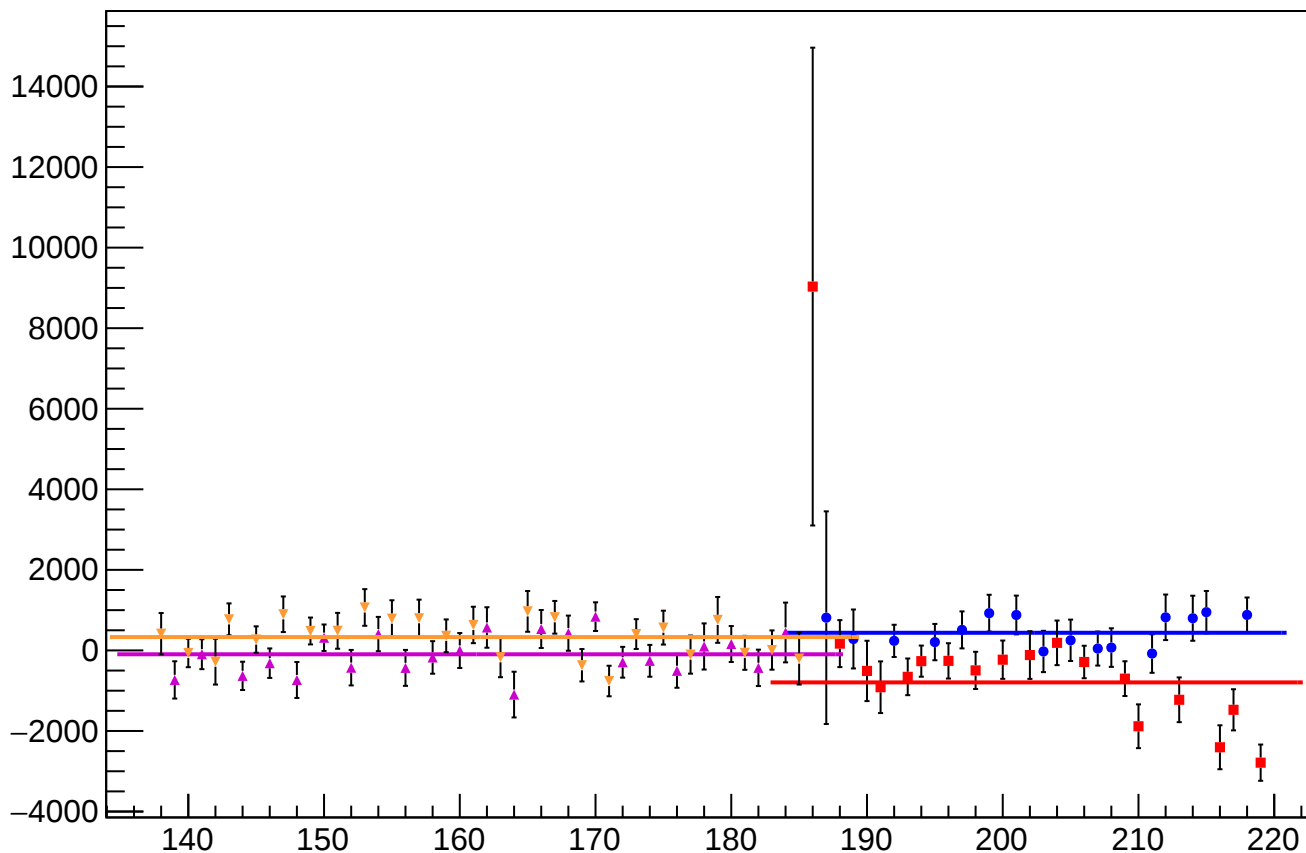
Right: 61.371 $\pm$ 0.009 χ^2 /NDF: 883006.0/33

In: 62.964 $\pm$ 0.008 χ^2 /NDF: 584966.8/38

Out: 62.763 $\pm$ 0.008 χ^2 /NDF: 1224525.8/42

All: 62.860 $\pm$ 0.006 χ^2 /NDF: 1809794.7/81

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 438.183 ± 124.751 $\chi^2/\text{NDF}: 9.0/15$

Left Out: 331.739 ± 86.071 $\chi^2/\text{NDF}: 29.9/24$

Right Out: -793.762 ± 120.035 $\chi^2/\text{NDF}: 51.7/17$

Left In: -95.910 ± 88.656 $\chi^2/\text{NDF}: 28.7/22$

Left: 124.240 ± 61.755 $\chi^2/\text{NDF}: 70.5/47$

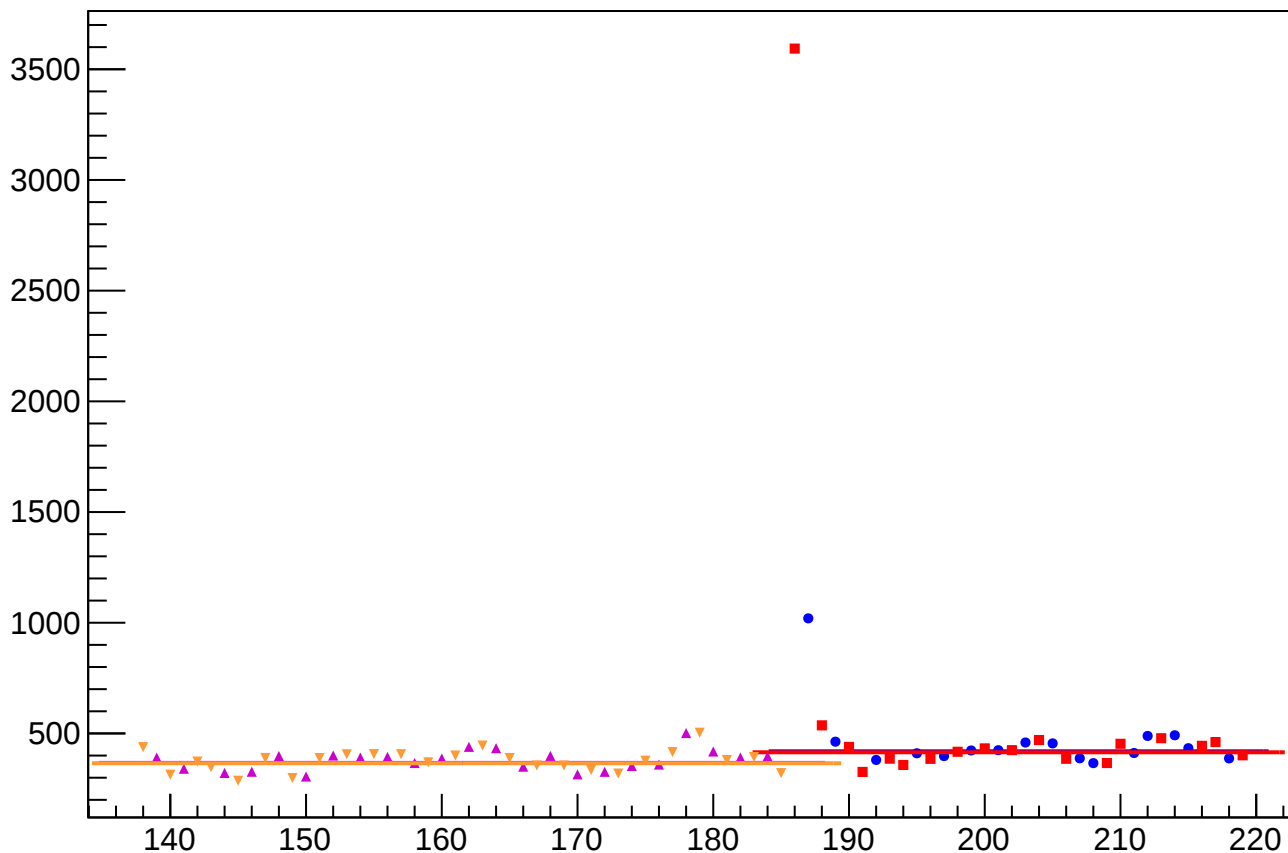
Right: -201.516 ± 86.497 $\chi^2/\text{NDF}: 111.4/33$

In: 83.313 ± 72.266 $\chi^2/\text{NDF}: 49.9/38$

Out: -50.444 ± 69.947 $\chi^2/\text{NDF}: 139.7/42$

All: 14.254 ± 50.260 $\chi^2/\text{NDF}: 191.3/81$

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 419.089+/-0.088 χ^2/NDF : 269488.7/15

Left Out: 365.355+/-0.061 χ^2/NDF : 618453.7/24

Right Out: 414.846+/-0.085 χ^2/NDF : 882088.9/17

Left In: 366.925+/-0.063 χ^2/NDF : 478082.1/22

Left: 366.117+/-0.044 χ^2/NDF : 1096858.5/47

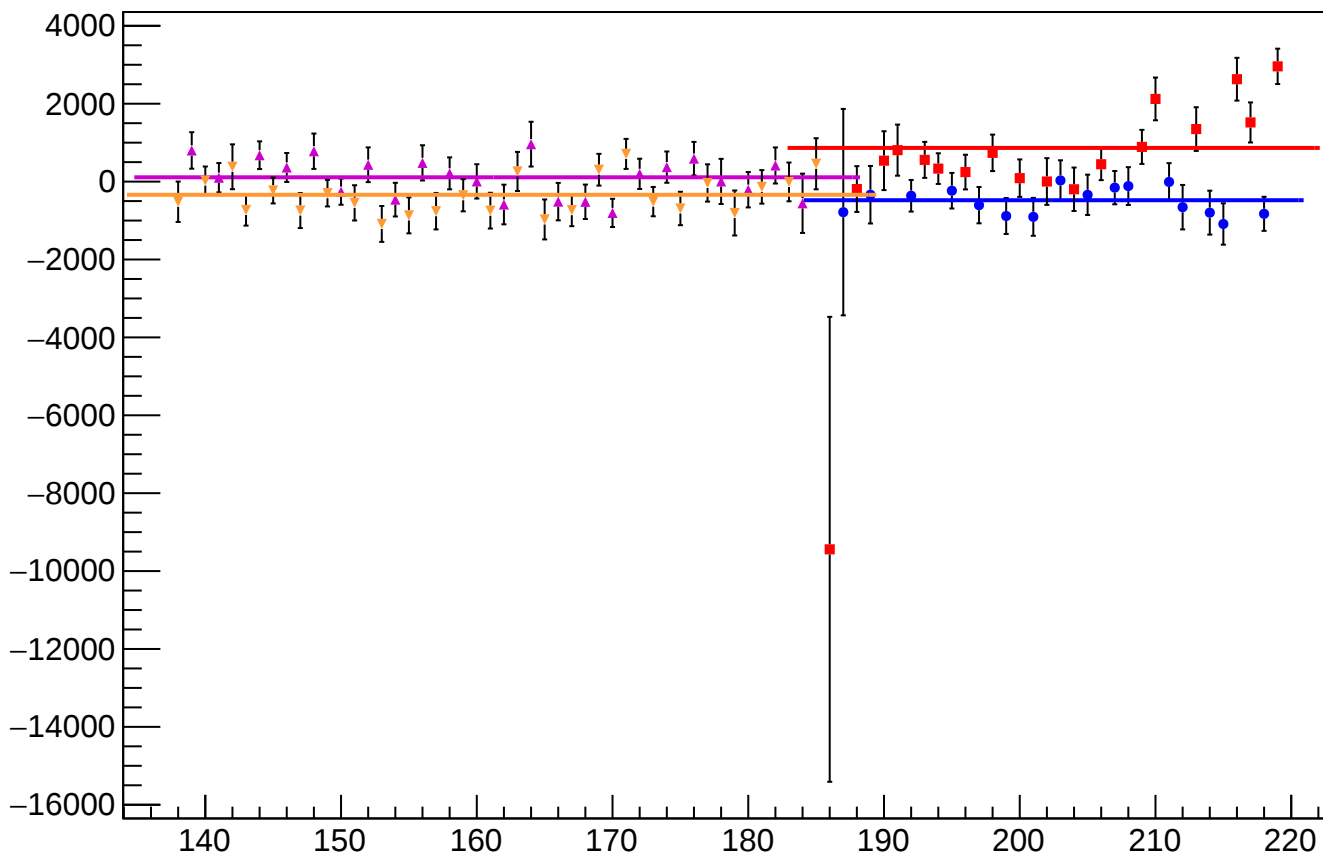
Right: 416.886+/-0.061 χ^2/NDF : 1152779.4/33

In: 384.429+/-0.051 χ^2/NDF : 979922.8/38

Out: 382.161+/-0.049 χ^2/NDF : 1725079.7/42

All: 383.258+/-0.036 χ^2/NDF : 2706020.3/81

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: -478.126 $\pm$ 126.186 χ^2 /NDF: 7.5/15

Left Out: -338.528 $\pm$ 87.450 χ^2 /NDF:28.2/24

Right Out: 865.125 $\pm$ 121.512 χ^2 /NDF: 59.2/17

Left In: 110.341 $\pm$ 90.084 χ^2 /NDF:29.2/22

Left: -120.751 $\pm$ 62.747 χ^2 /NDF: 70.2/47

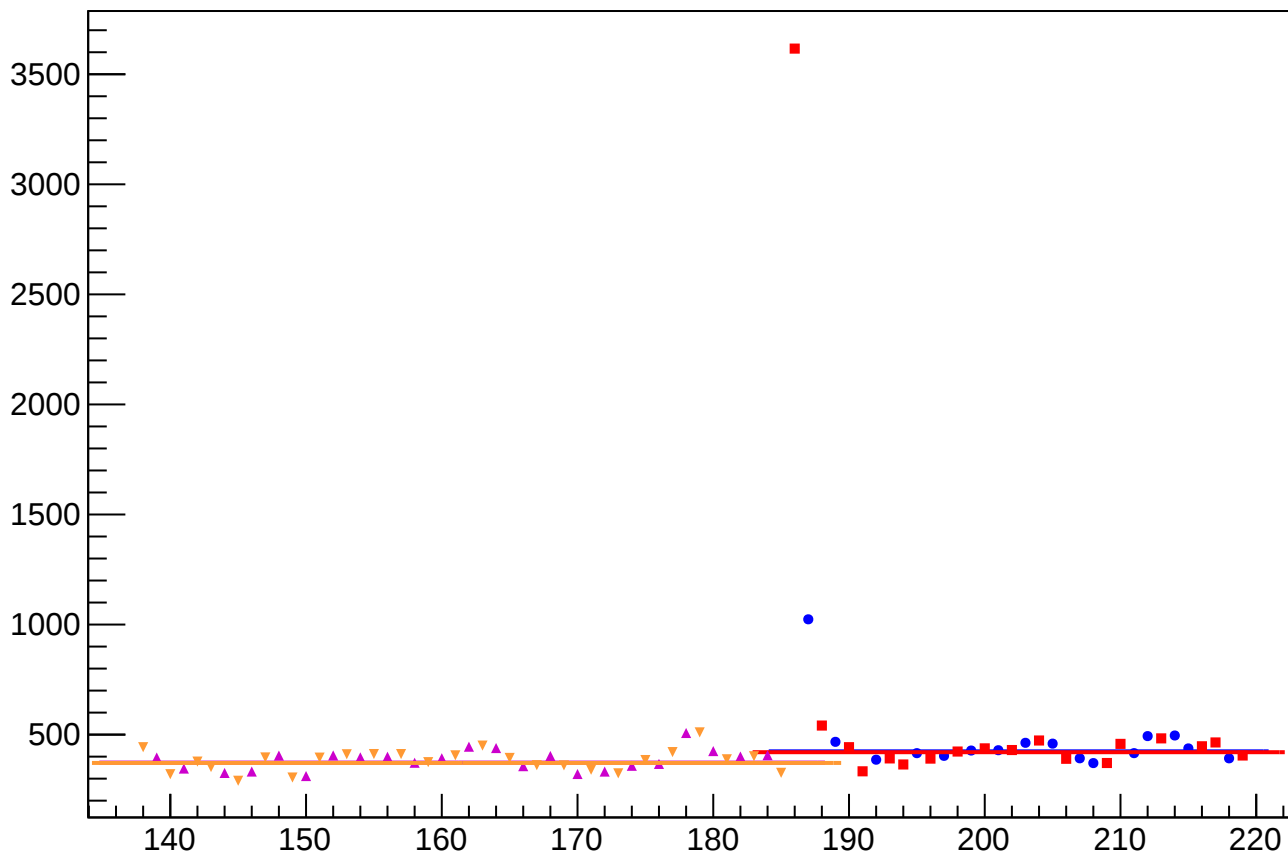
Right: 218.840 $\pm$ 87.528 χ^2 /NDF: 125.5/33

In: -88.322 $\pm$ 73.318 χ^2 /NDF:51.1/38

Out: 72.178 $\pm$ 70.979 χ^2 /NDF:152.1/42

All: -5.472 $\pm$ 50.997 χ^2 /NDF: 205.7/81

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 424.062 $\pm$ 0.089 χ^2 /NDF: 261467.5/15

Left Out: 371.356 $\pm$ 0.062 χ^2 /NDF: 604070.6/24

Right Out: 420.139 $\pm$ 0.086 χ^2 /NDF: 865078.5/17

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

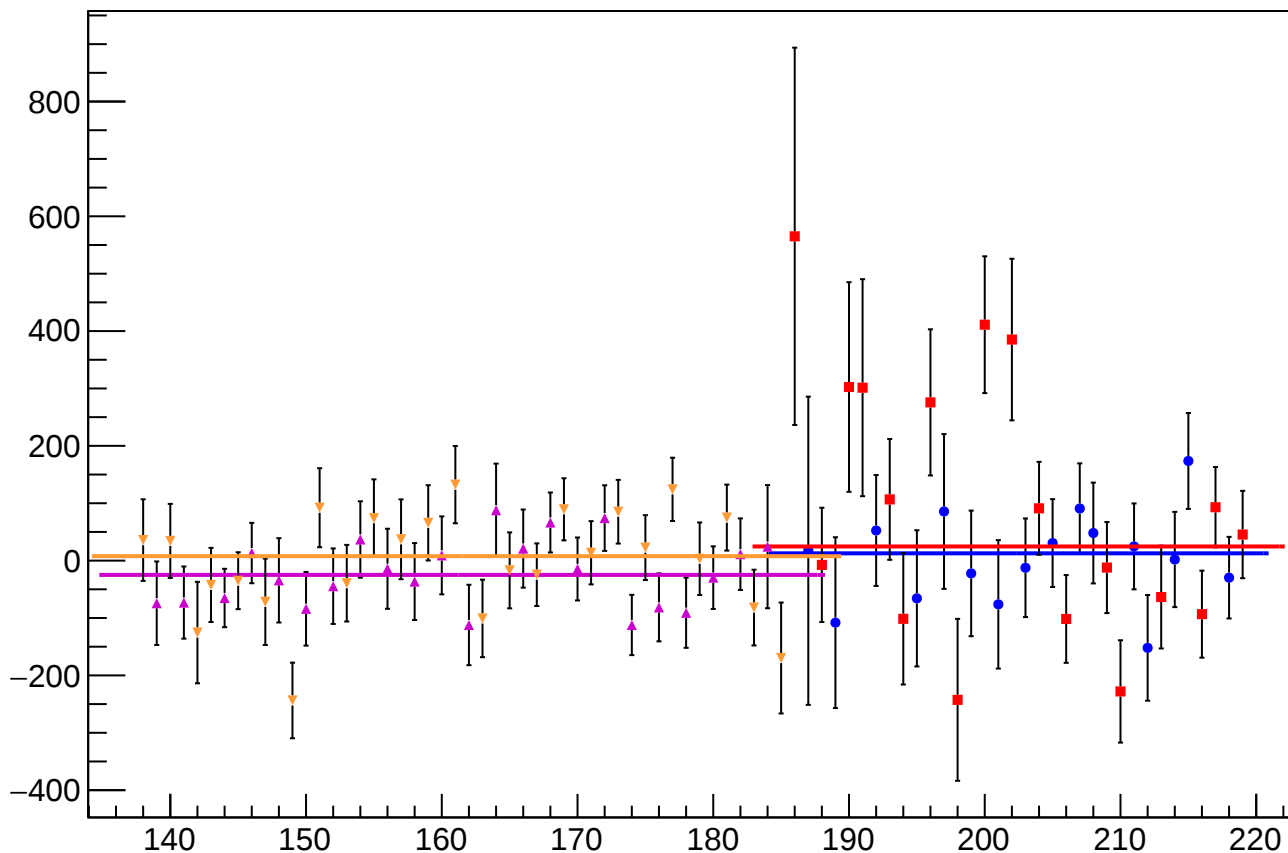
Right: 422.026 $\pm$ 0.062 χ^2 /NDF: 1127548.9/33

In: 390.197 $\pm$ 0.052 χ^2 /NDF: 946270.5/38

Out: 388.001 $\pm$ 0.050 χ^2 /NDF: 1681511.9/42

All: 389.064 $\pm$ 0.036 χ^2 /NDF: 2628708.1/81

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 12.702 ± 23.339 $\chi^2/\text{NDF}: 10.9/15$

Left Out: 7.723 ± 12.656 $\chi^2/\text{NDF}: 45.4/24$

Right Out: 24.678 ± 23.245 $\chi^2/\text{NDF}: 49.7/17$

Left In: -24.887 ± 13.029 $\chi^2/\text{NDF}: 19.7/22$

Left: -8.108 ± 9.078 $\chi^2/\text{NDF}: 68.4/47$

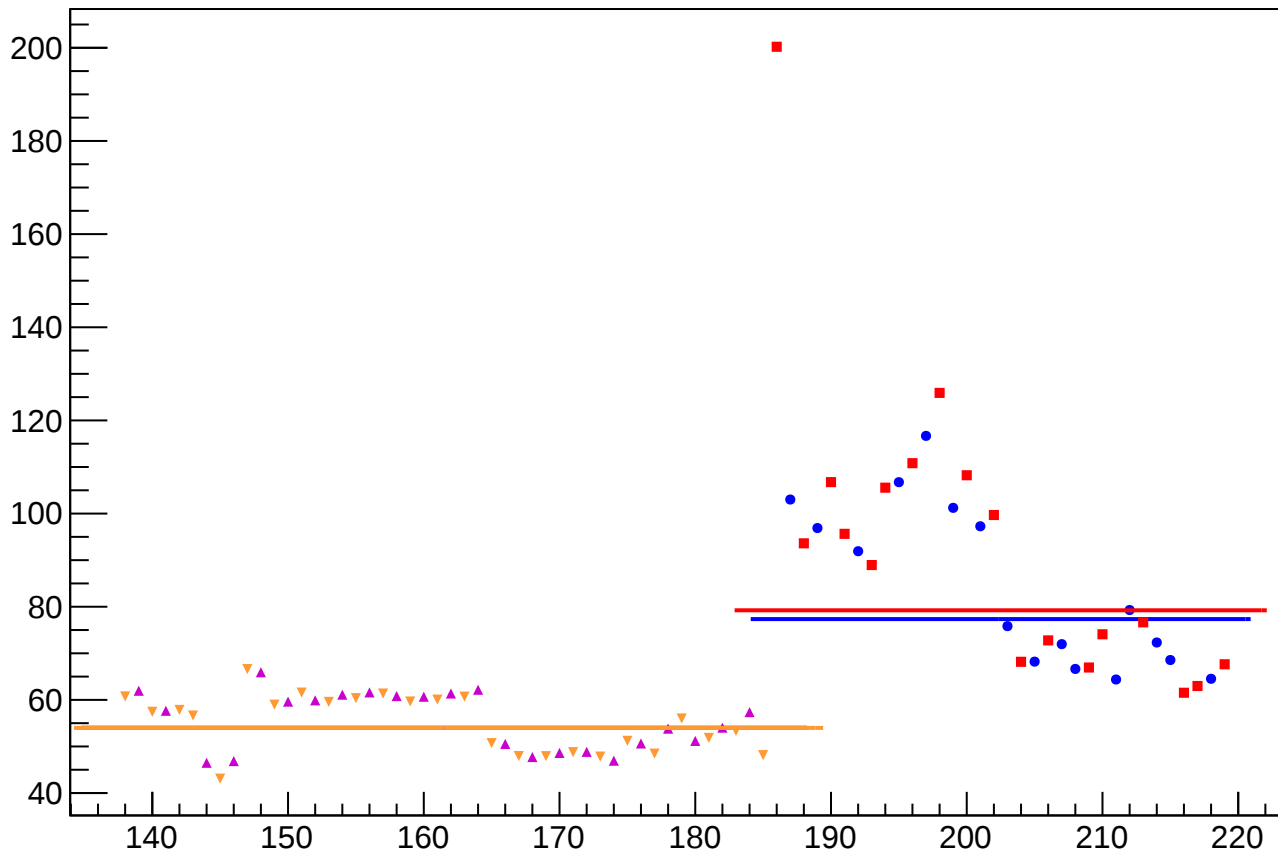
Right: 18.714 ± 16.470 $\chi^2/\text{NDF}: 60.7/33$

In: -15.957 ± 11.376 $\chi^2/\text{NDF}: 32.6/38$

Out: 11.600 ± 11.115 $\chi^2/\text{NDF}: 95.5/42$

All: -1.858 ± 7.950 $\chi^2/\text{NDF}: 131.1/81$

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 77.347 $\pm$ 0.017 χ^2 /NDF: 773250.1/15

Left Out: 53.984 $\pm$ 0.009 χ^2 /NDF: 458972.1/24

Right Out: 79.233 $\pm$ 0.016 χ^2 /NDF: 1369426.2/17

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

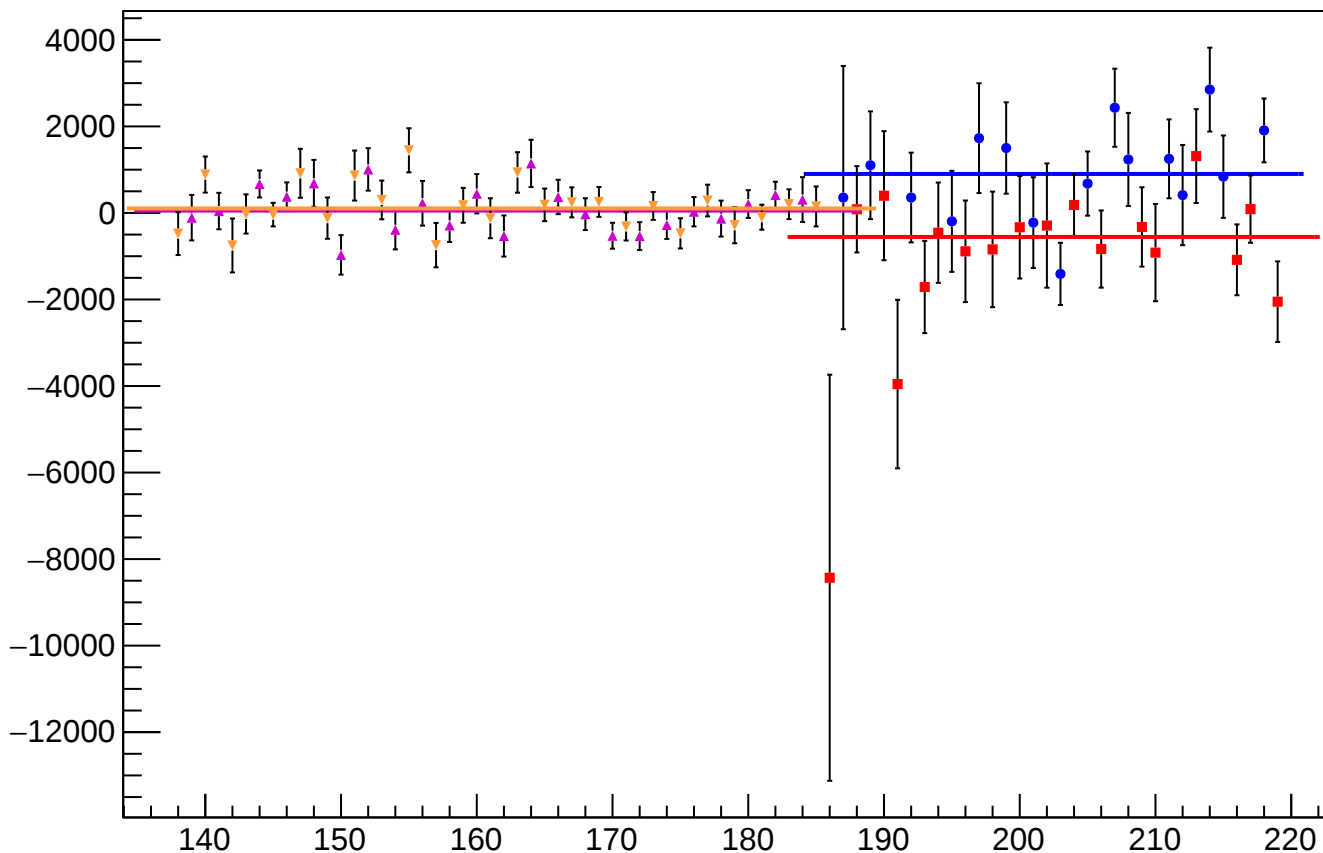
Right: 78.294 $\pm$ 0.012 χ^2 /NDF: 2149235.1/33

In: 59.568 $\pm$ 0.008 χ^2 /NDF: 2739328.1/38

Out: 59.757 $\pm$ 0.008 χ^2 /NDF: 3648644.6/42

All: 59.665 $\pm$ 0.006 χ^2 /NDF: 6388254.2/81

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 901.051 ± 245.133 χ^2/NDF : 22.7/15

Left Out: 103.768 ± 79.344 χ^2/NDF : 31.0/24

Right Out: -555.176 ± 248.217 χ^2/NDF : 16.1/17

Left In: 53.493 ± 81.201 χ^2/NDF : 34.1/22

Left: 79.212 ± 56.750 χ^2/NDF : 65.3/47

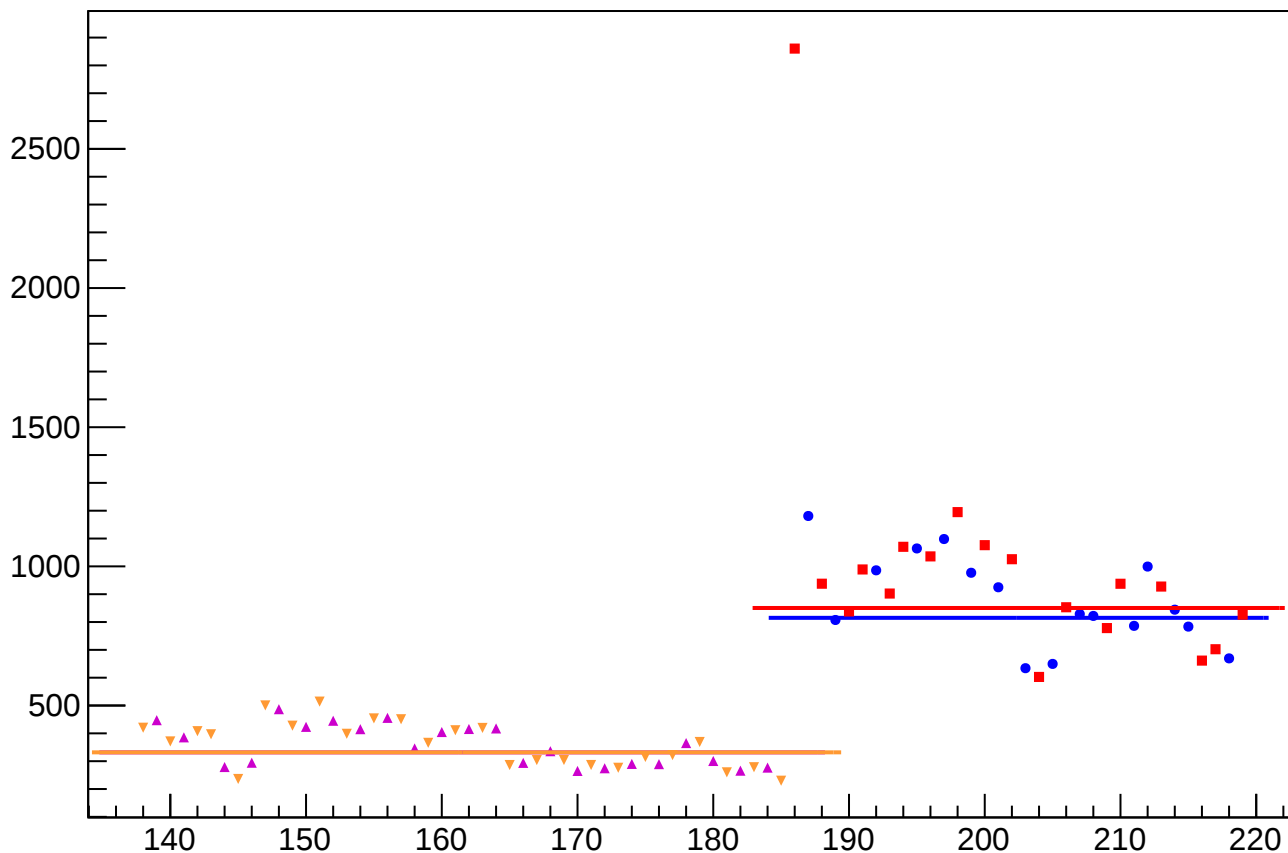
Right: 182.039 ± 174.416 χ^2/NDF : 56.2/33

In: 137.298 ± 77.082 χ^2/NDF : 67.6/38

Out: 42.679 ± 75.577 χ^2/NDF : 53.4/42

All: 89.056 ± 53.965 χ^2/NDF : 121.8/81

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 815.085+/-0.173 χ^2/NDF : 704440.8/15

Left Out: 331.770+/-0.056 χ^2/NDF :1711721.9/24

Right Out: 850.467+/-0.176 χ^2/NDF : 1212154.9/17

Left In: 331.666+/-0.057 χ^2/NDF :1303192.2/22

Left: 331.719+/-0.040 χ^2/NDF : 3014915.7/47

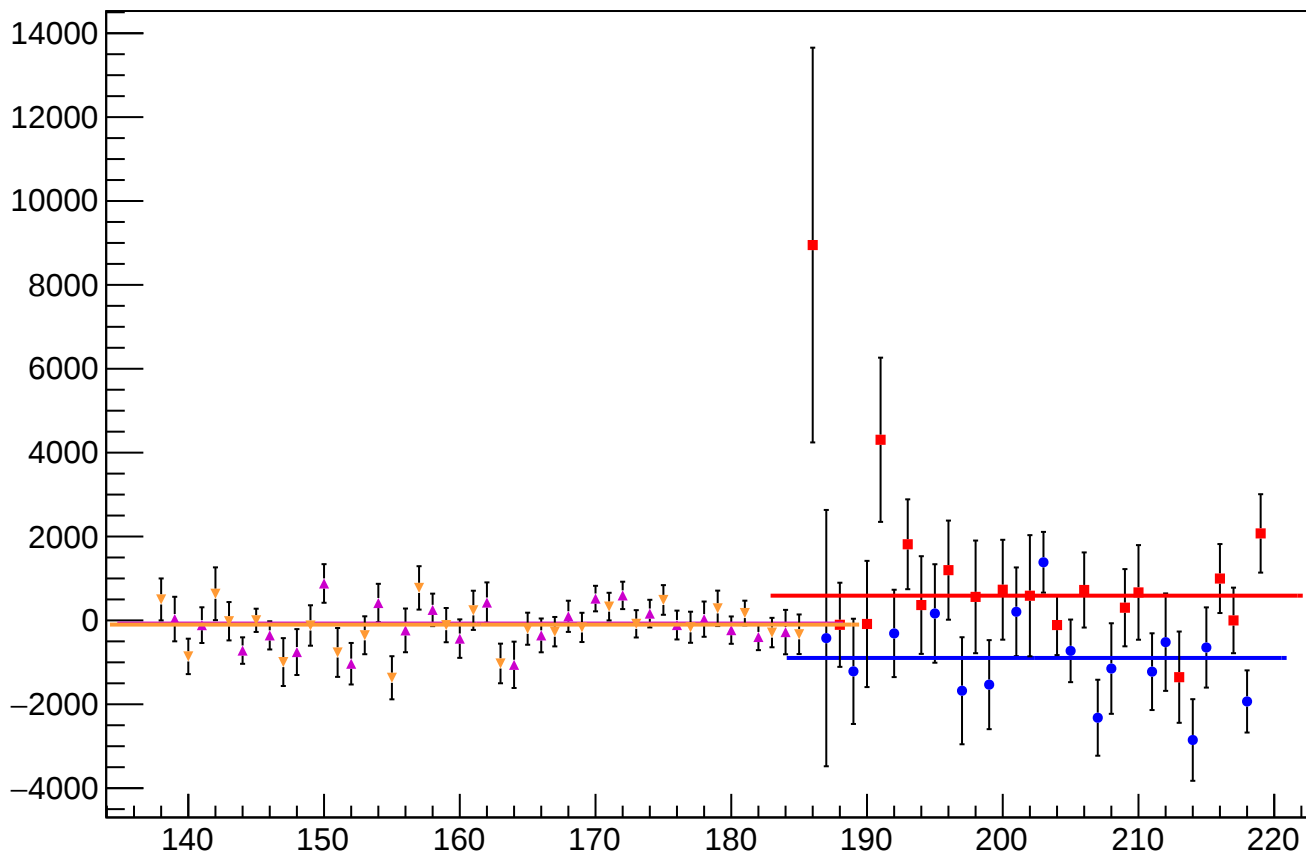
Right: 832.555+/-0.123 χ^2/NDF : 1937168.7/33

In: 379.466+/-0.055 χ^2/NDF :9016638.9/38

Out: 379.857+/-0.053 χ^2/NDF :10847809.8/42

All: 379.665+/-0.038 χ^2/NDF : 19864475.0/83

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -895.286 ± 246.410 χ^2/NDF : 21.8/15

Left Out: -99.785 ± 80.428 χ^2/NDF : 30.7/24

Right Out: 589.759 ± 249.442 χ^2/NDF : 16.7/17

Left In: -75.579 ± 82.319 χ^2/NDF : 32.1/22

Left: -87.963 ± 57.528 χ^2/NDF : 62.8/47

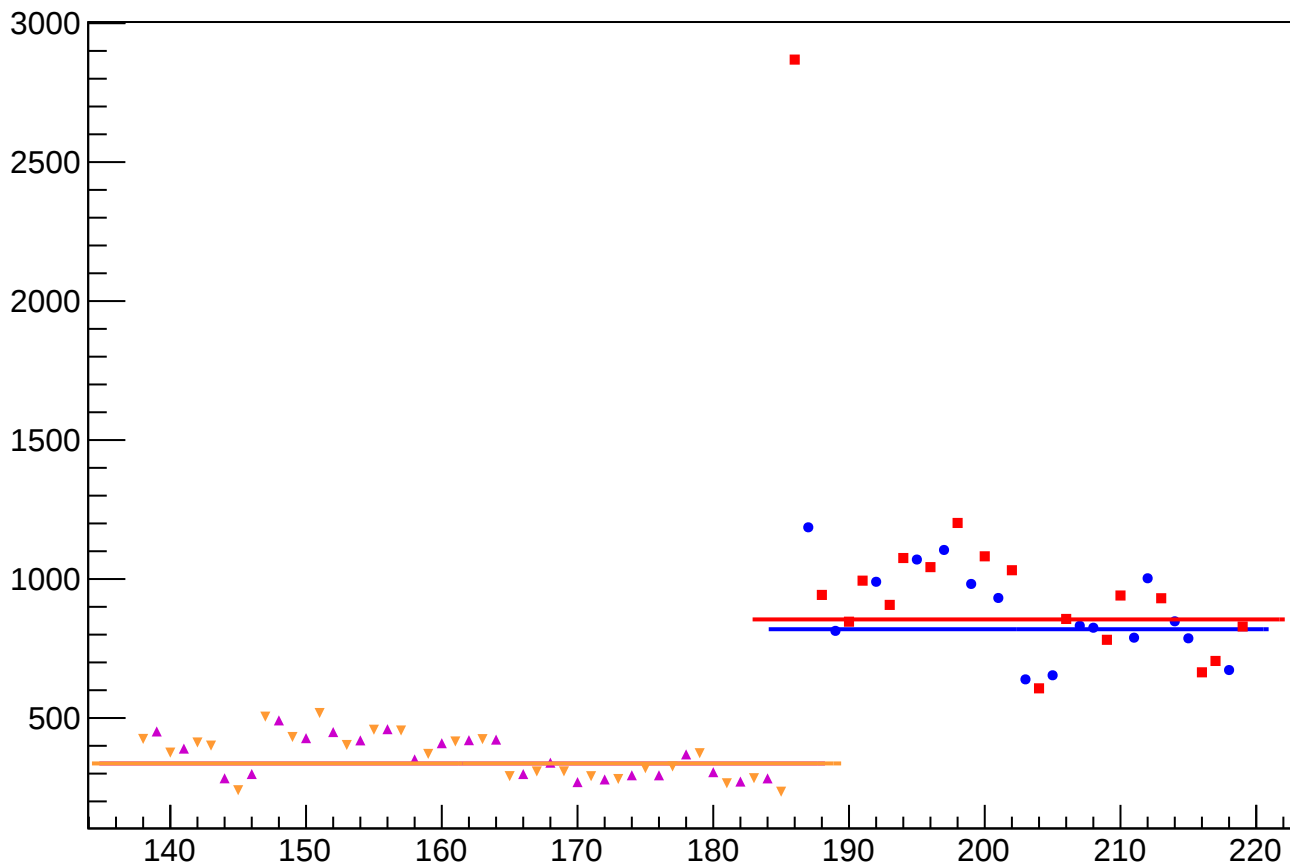
Right: -161.845 ± 175.300 χ^2/NDF : 56.5/33

In: -157.877 ± 78.077 χ^2/NDF : 63.9/38

Out: -34.849 ± 76.547 χ^2/NDF : 54.3/42

All: -95.146 ± 54.660 χ^2/NDF : 119.4/81

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 819.426 $\pm$ 0.174 χ^2/NDF : 701011.1/15

Left Out: 336.557 $\pm$ 0.057 χ^2/NDF :1665919.4/24

Right Out: 854.721 $\pm$ 0.176 χ^2/NDF : 1211169.1/17

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

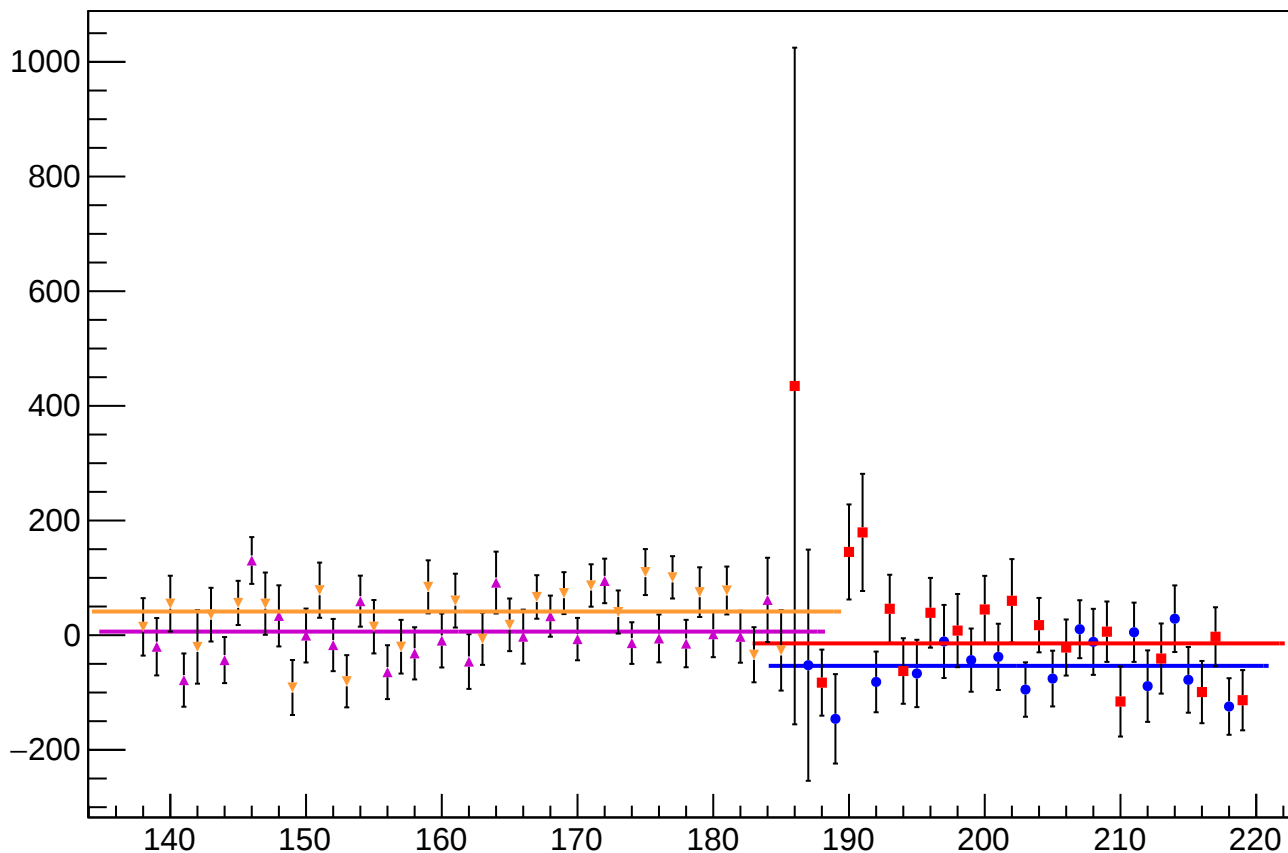
Right: 836.858 $\pm$ 0.124 χ^2/NDF : 1932446.3/33

In: 384.931 $\pm$ 0.055 χ^2/NDF :8882570.1/38

Out: 385.354 $\pm$ 0.054 χ^2/NDF :10694644.0/42

All: 385.147 $\pm$ 0.039 χ^2/NDF : 19577244.0/83

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -53.491 ± 14.264 χ^2/NDF : 11.2/15

Left Out: 41.283 ± 8.889 χ^2/NDF : 34.4/24

Right Out: -14.322 ± 14.188 χ^2/NDF : 23.6/17

Left In: 6.254 ± 9.175 χ^2/NDF : 30.3/22

Left: 24.322 ± 6.384 χ^2/NDF : 72.2/47

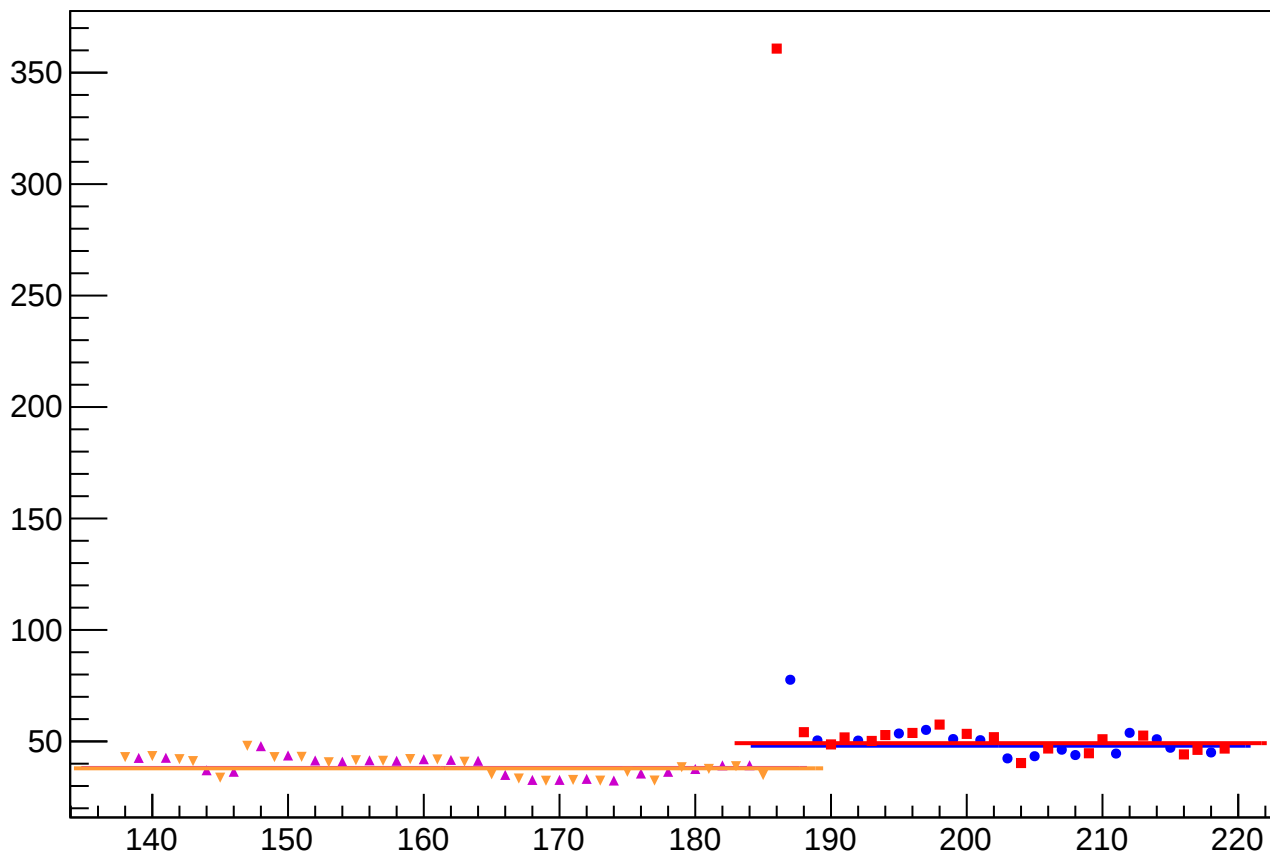
Right: -33.801 ± 10.059 χ^2/NDF : 38.6/33

In: -11.230 ± 7.716 χ^2/NDF : 53.9/38

Out: 25.608 ± 7.533 χ^2/NDF : 69.0/42

All: 7.632 ± 5.390 χ^2/NDF : 134.6/81

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 48.071 $\pm$ 0.010 χ^2 /NDF: 200649.6/15

Left Out: 37.925 $\pm$ 0.006 χ^2 /NDF: 487085.3/24

Right Out: 49.208 $\pm$ 0.010 χ^2 /NDF: 766684.0/17

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

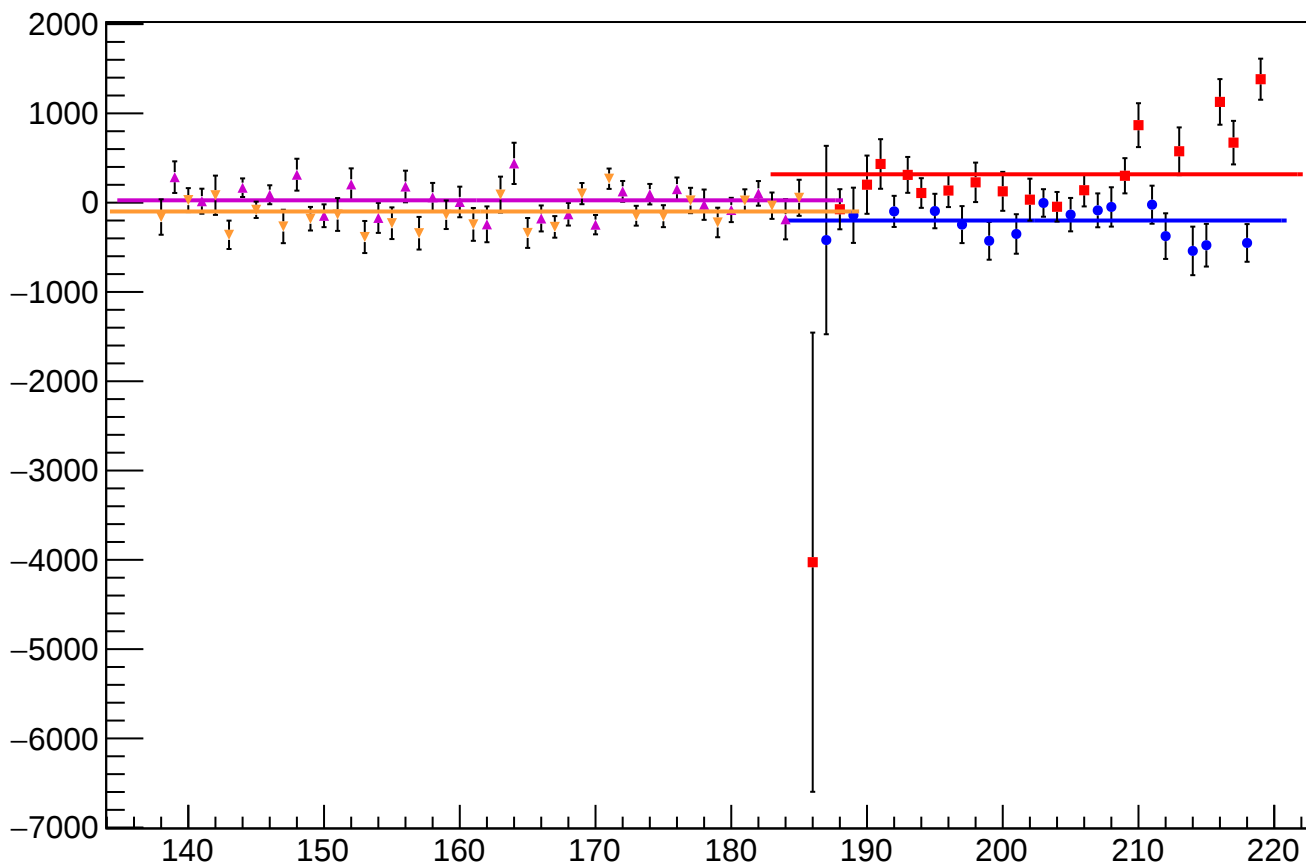
Right: 48.643 $\pm$ 0.007 χ^2 /NDF: 973726.7/33

In: 41.009 $\pm$ 0.005 χ^2 /NDF: 1290006.3/38

Out: 41.106 $\pm$ 0.005 χ^2 /NDF: 2162139.9/42

All: 41.059 $\pm$ 0.004 χ^2 /NDF: 3452308.1/81

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -199.990 ± 53.679 χ^2/NDF : 10.5/15

Left Out: -98.741 ± 29.095 χ^2/NDF : 32.7/24

Right Out: 317.787 ± 52.247 χ^2/NDF : 56.5/17

Left In: 26.223 ± 29.676 χ^2/NDF : 30.7/22

Left: -37.493 ± 20.776 χ^2/NDF : 72.5/47

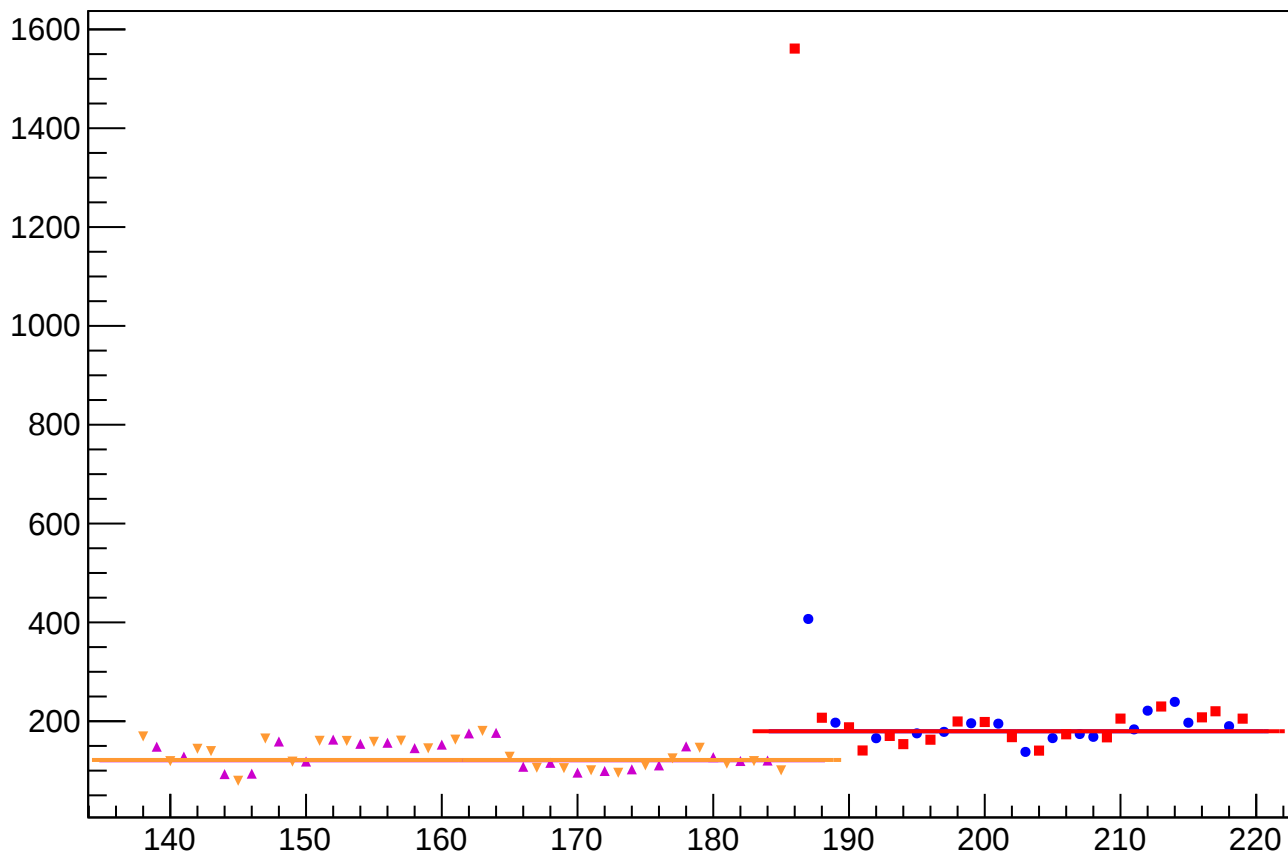
Right: 65.895 ± 37.440 χ^2/NDF : 114.7/33

In: -26.731 ± 25.971 χ^2/NDF : 54.7/38

Out: -0.146 ± 25.420 χ^2/NDF : 137.8/42

All: -13.153 ± 18.166 χ^2/NDF : 193.0/81

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 179.613+/-0.038 χ^2/NDF : 463816.0/15

Left Out: 121.592+/-0.021 χ^2/NDF :1711423.9/24

Right Out: 179.720+/-0.037 χ^2/NDF : 1071984.2/17

Left In: 120.927+/-0.021 χ^2/NDF :1382861.4/22

Left: 121.266+/-0.015 χ^2/NDF : 3094797.5/47

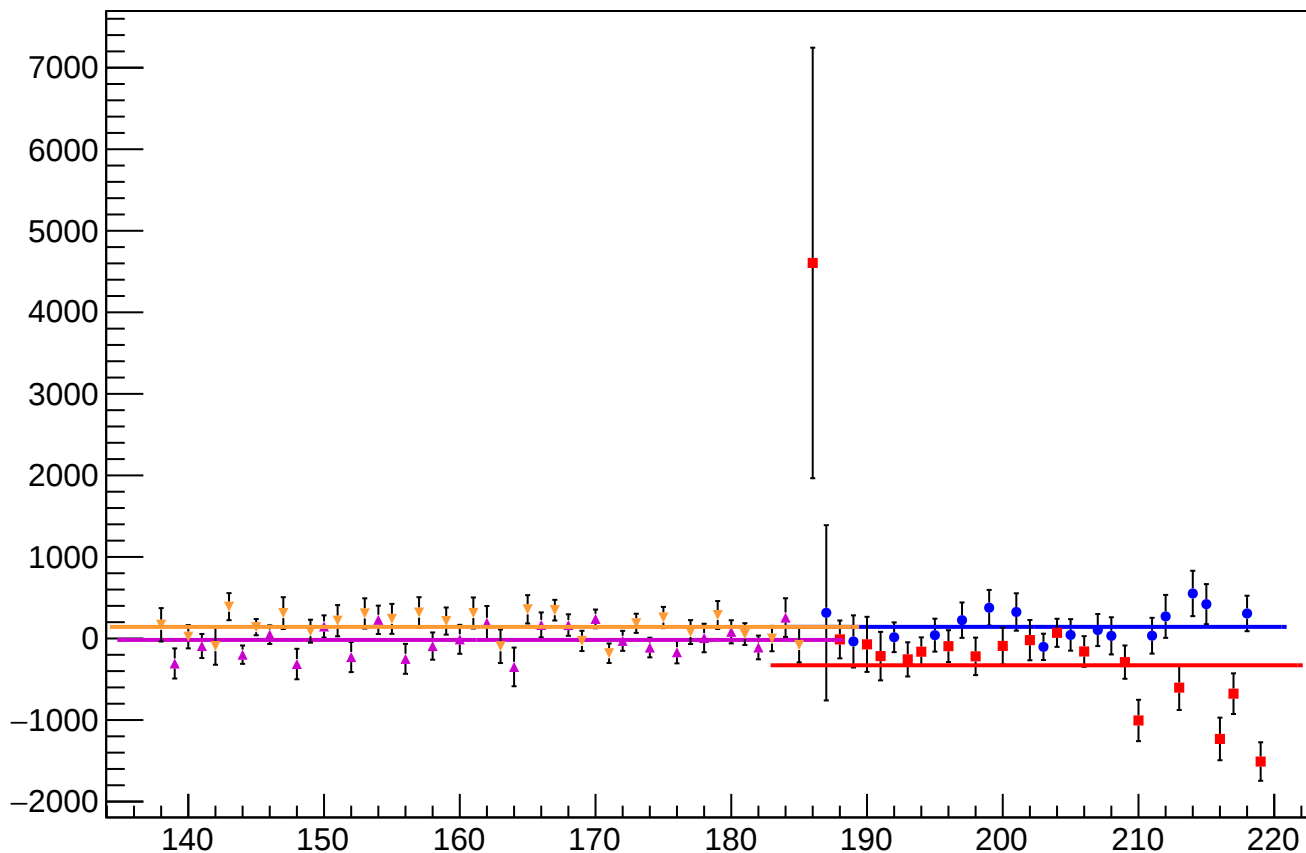
Right: 179.668+/-0.026 χ^2/NDF : 1535804.3/33

In: 134.665+/-0.018 χ^2/NDF :3677661.6/38

Out: 135.351+/-0.018 χ^2/NDF :4673035.2/42

All: 135.015+/-0.013 χ^2/NDF : 8351411.2/81

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 142.530 $\pm$ 55.705 χ^2 /NDF: 10.3/15

Left Out: 142.014 $\pm$ 30.574 χ^2 /NDF: 26.9/24

Right Out: -328.661 $\pm$ 54.371 χ^2 /NDF: 64.6/17

Left In: -17.679 $\pm$ 31.209 χ^2 /NDF: 30.1/22

Left: 63.807 $\pm$ 21.840 χ^2 /NDF: 70.4/47

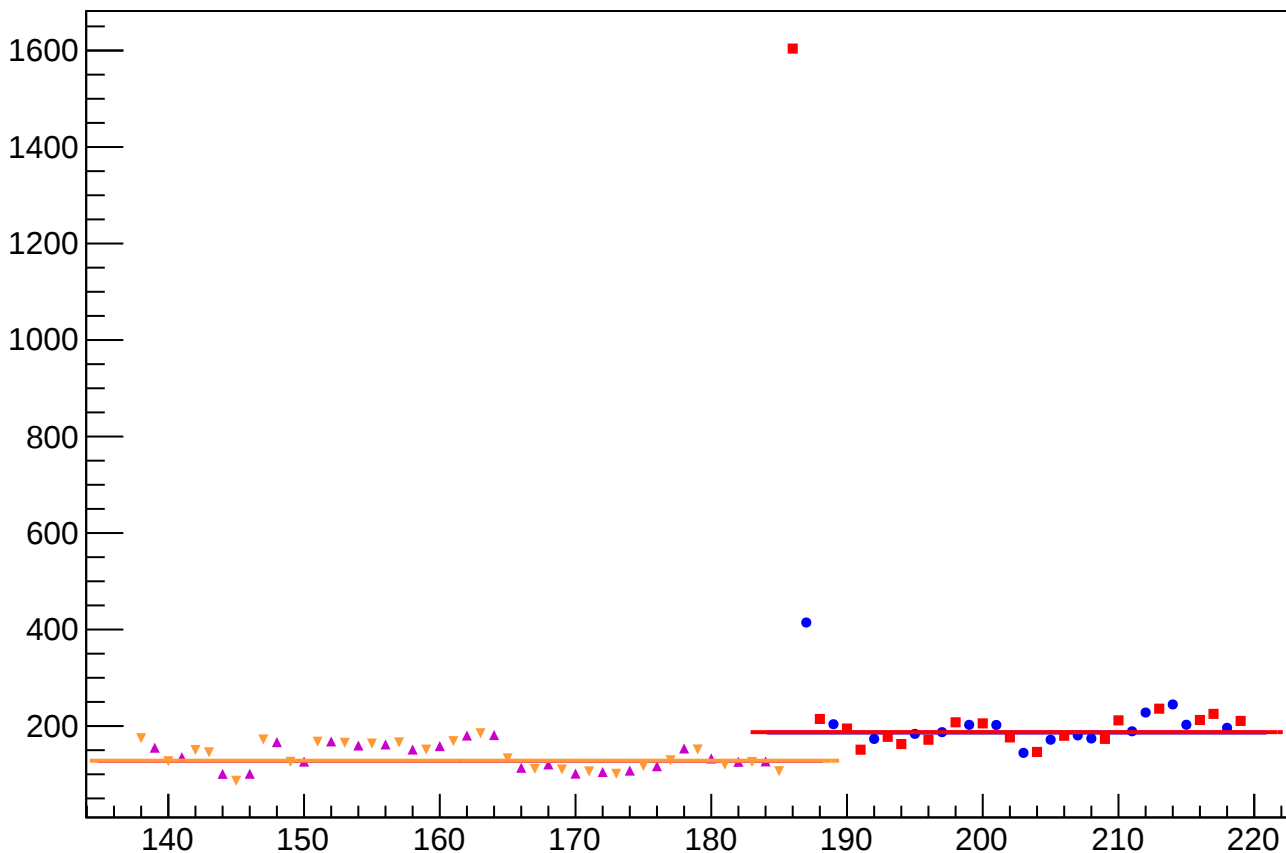
Right: -98.776 $\pm$ 38.909 χ^2 /NDF: 111.6/33

In: 20.594 $\pm$ 27.227 χ^2 /NDF: 46.8/38

Out: 28.937 $\pm$ 26.650 χ^2 /NDF: 148.4/42

All: 24.855 $\pm$ 19.045 χ^2 /NDF: 195.3/81

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 186.598 $\pm$ 0.039 χ^2 /NDF: 432541.5/15

Left Out: 128.175 $\pm$ 0.022 χ^2 /NDF:1532922.0/24

Right Out: 187.333 $\pm$ 0.038 χ^2 /NDF: 1014633.8/17

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

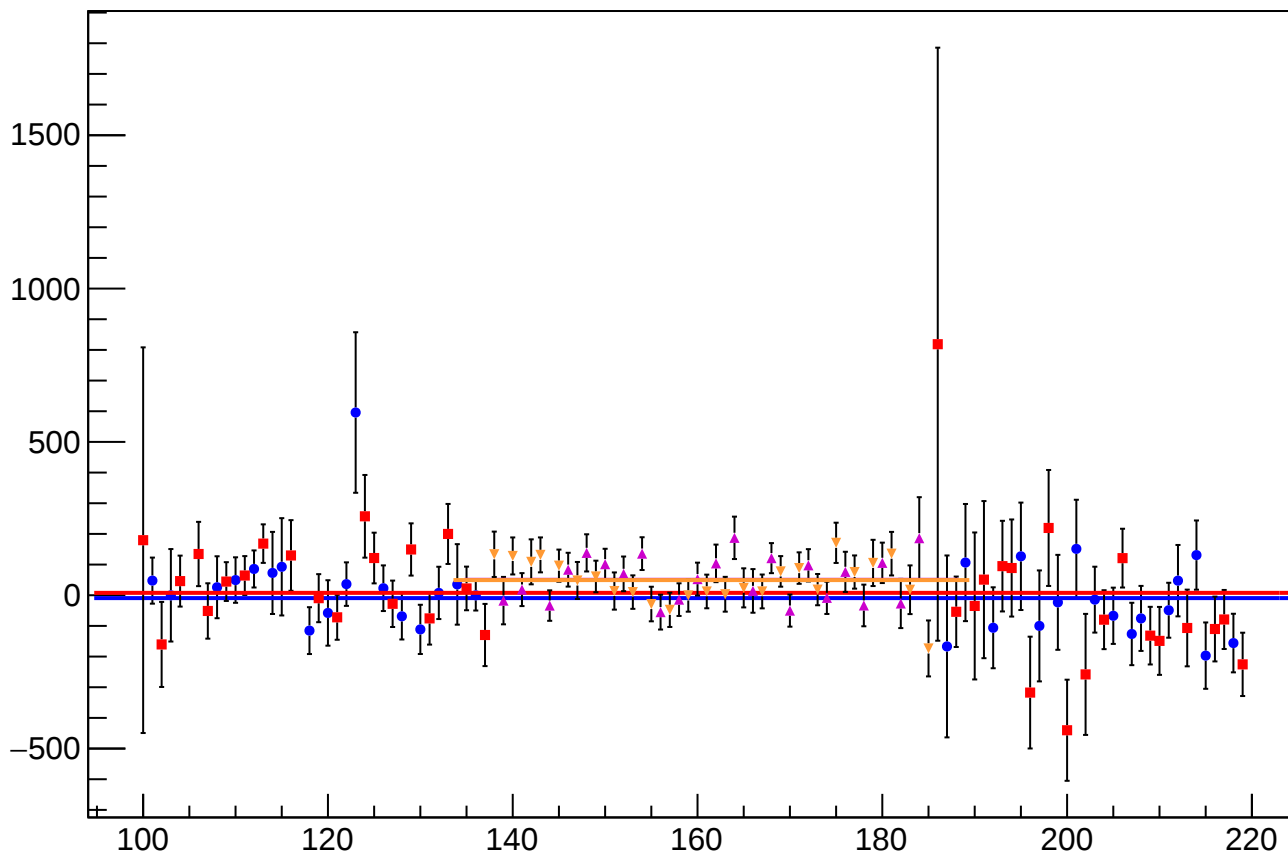
Right: 186.974 $\pm$ 0.028 χ^2 /NDF: 1447353.4/33

In: 141.651 $\pm$ 0.019 χ^2 /NDF:3379019.0/38

Out: 142.387 $\pm$ 0.019 χ^2 /NDF:4346401.2/42

All: 142.027 $\pm$ 0.013 χ^2 /NDF: 7726166.5/81

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -9.377 ± 16.766 $\chi^2/\text{NDF}: 27.6/32$

Left Out: 49.402 ± 11.806 $\chi^2/\text{NDF}: 28.1/24$

Right Out: 7.771 ± 16.387 $\chi^2/\text{NDF}: 58.4/36$

Left In: 50.331 ± 12.253 $\chi^2/\text{NDF}: 32.2/22$

Left: 49.849 ± 8.502 $\chi^2/\text{NDF}: 60.3/47$

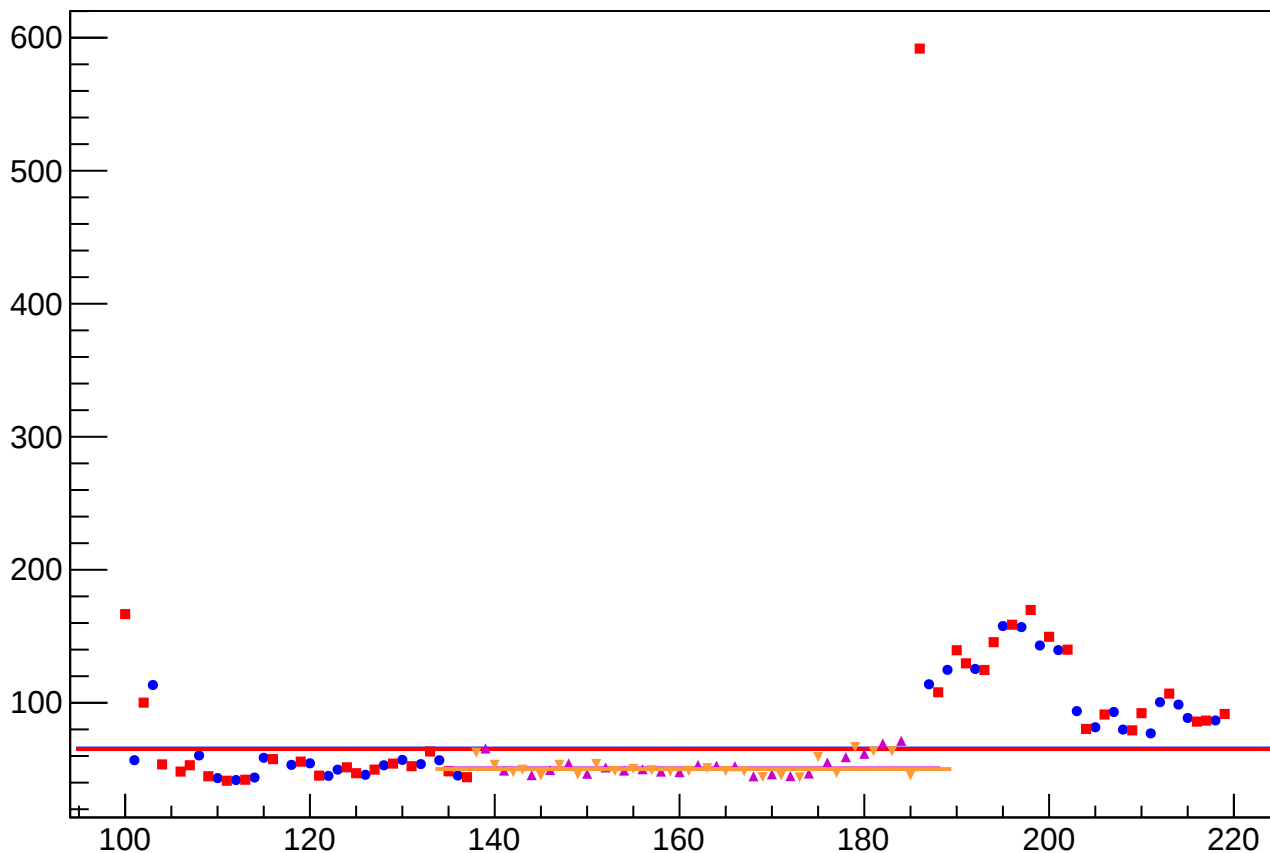
Right: -0.607 ± 11.719 $\chi^2/\text{NDF}: 86.5/69$

In: 29.543 ± 9.893 $\chi^2/\text{NDF}: 68.1/55$

Out: 35.177 ± 9.579 $\chi^2/\text{NDF}: 90.7/61$

All: 32.451 ± 6.882 $\chi^2/\text{NDF}: 158.9/117$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 65.586 $\pm$ 0.012 χ^2 /NDF: 5220597.6/32

Left Out: 50.189 $\pm$ 0.008 χ^2 /NDF: 467679.2/24

Right Out: 65.242 $\pm$ 0.012 χ^2 /NDF: 6594054.2/36

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

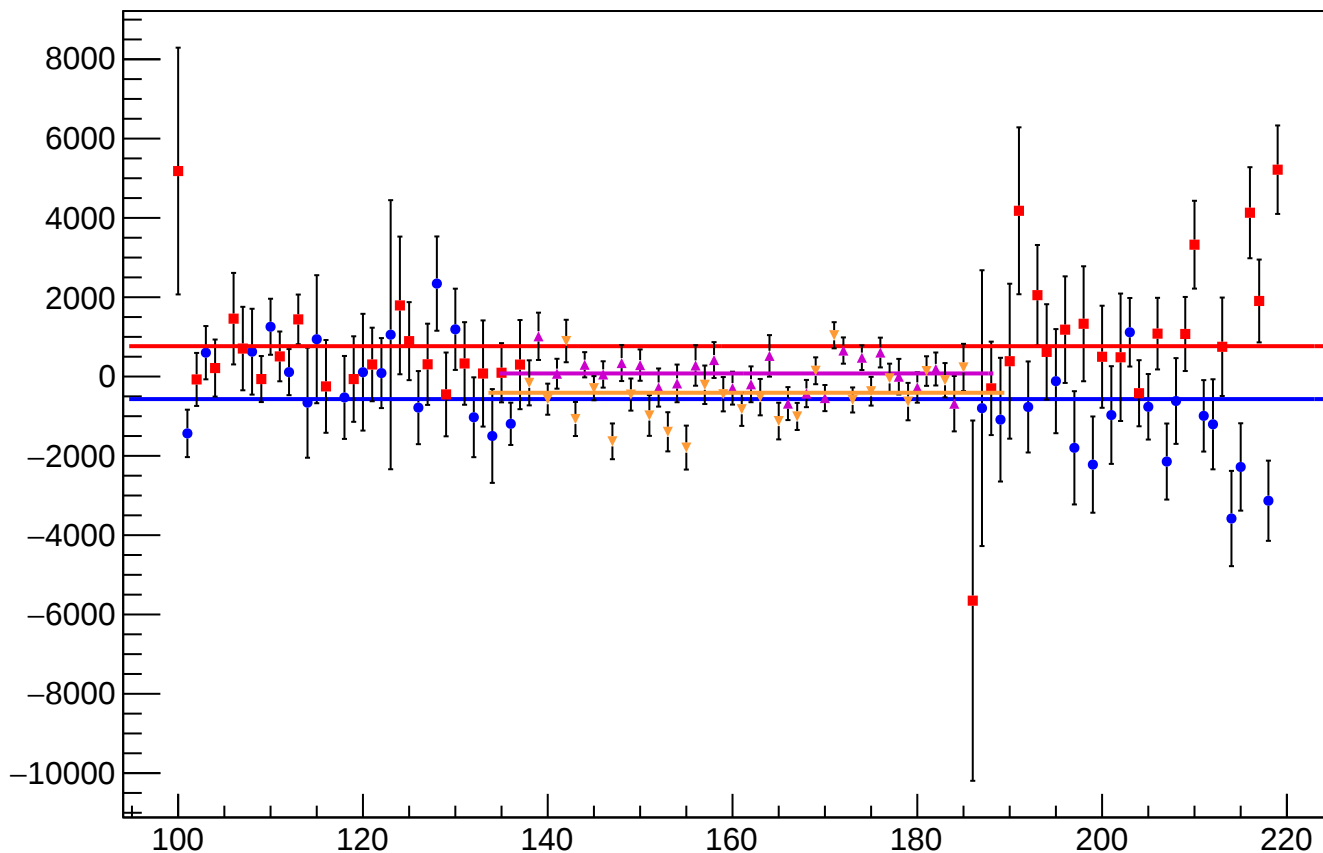
Right: 65.410 $\pm$ 0.008 χ^2 /NDF: 11815081.4/69

In: 55.872 $\pm$ 0.007 χ^2 /NDF: 6719839.1/55

Out: 55.332 $\pm$ 0.007 χ^2 /NDF: 8172677.1/61

All: 55.593 $\pm$ 0.005 χ^2 /NDF: 14895581.2/117

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -568.777 ± 167.971 χ^2/NDF : 52.6/32

Left Out: -409.164 ± 82.348 χ^2/NDF : 61.7/24

Right Out: 765.543 ± 165.817 χ^2/NDF : 53.0/36

Left In: 77.872 ± 84.072 χ^2/NDF : 24.8/22

Left: -170.691 ± 58.829 χ^2/NDF : 103.6/47

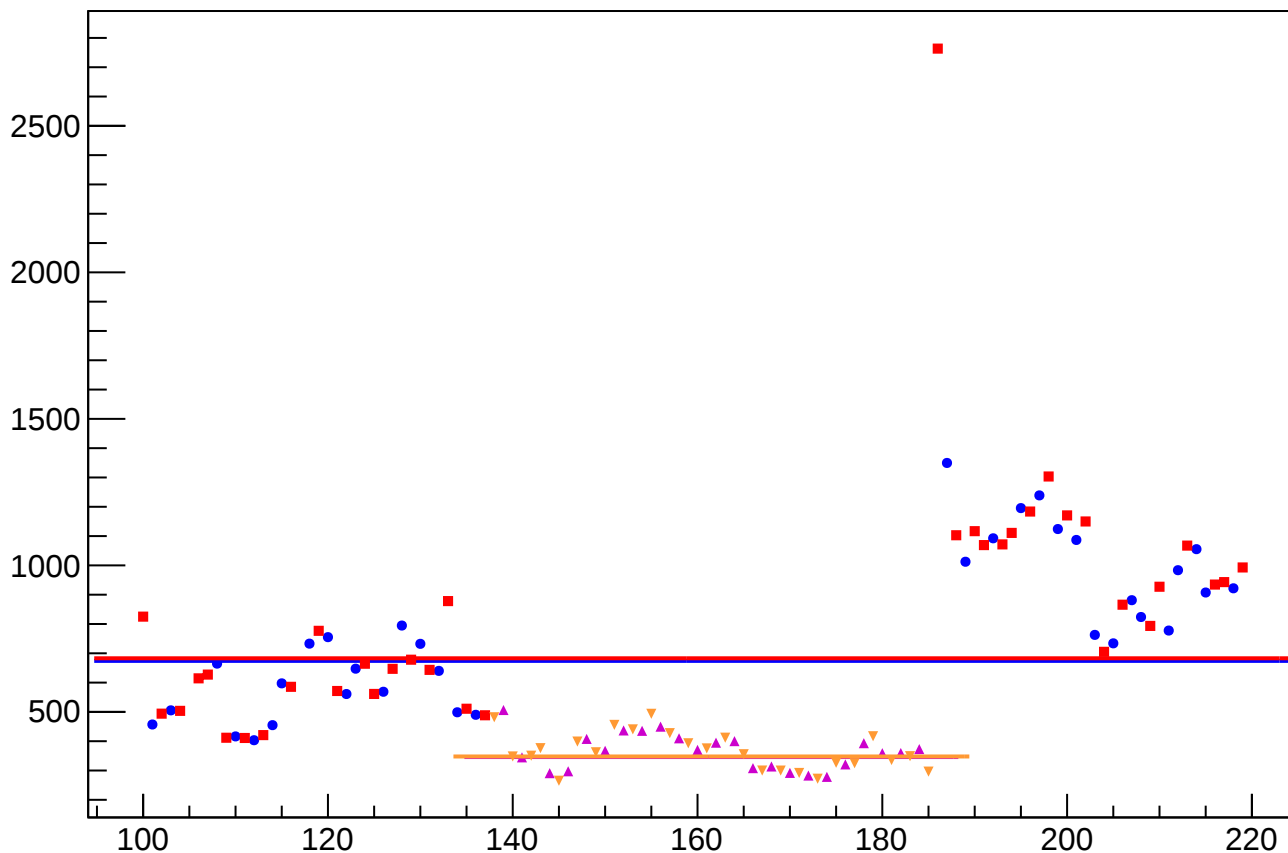
Right: 106.995 ± 118.005 χ^2/NDF : 137.6/69

In: -51.671 ± 75.181 χ^2/NDF : 89.3/55

Out: -176.760 ± 73.754 χ^2/NDF : 154.9/61

All: -115.414 ± 52.649 χ^2/NDF : 245.6/117

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 674.127+/-0.119 χ^2/NDF : 3839488.9/32

Left Out: 347.875+/-0.058 χ^2/NDF : 1044096.7/24

Right Out: 682.962+/-0.117 χ^2/NDF : 4922869.9/36

Left In: 345.954+/-0.059 χ^2/NDF : 900847.0/22

Left: 346.935+/-0.042 χ^2/NDF : 1945476.7/47

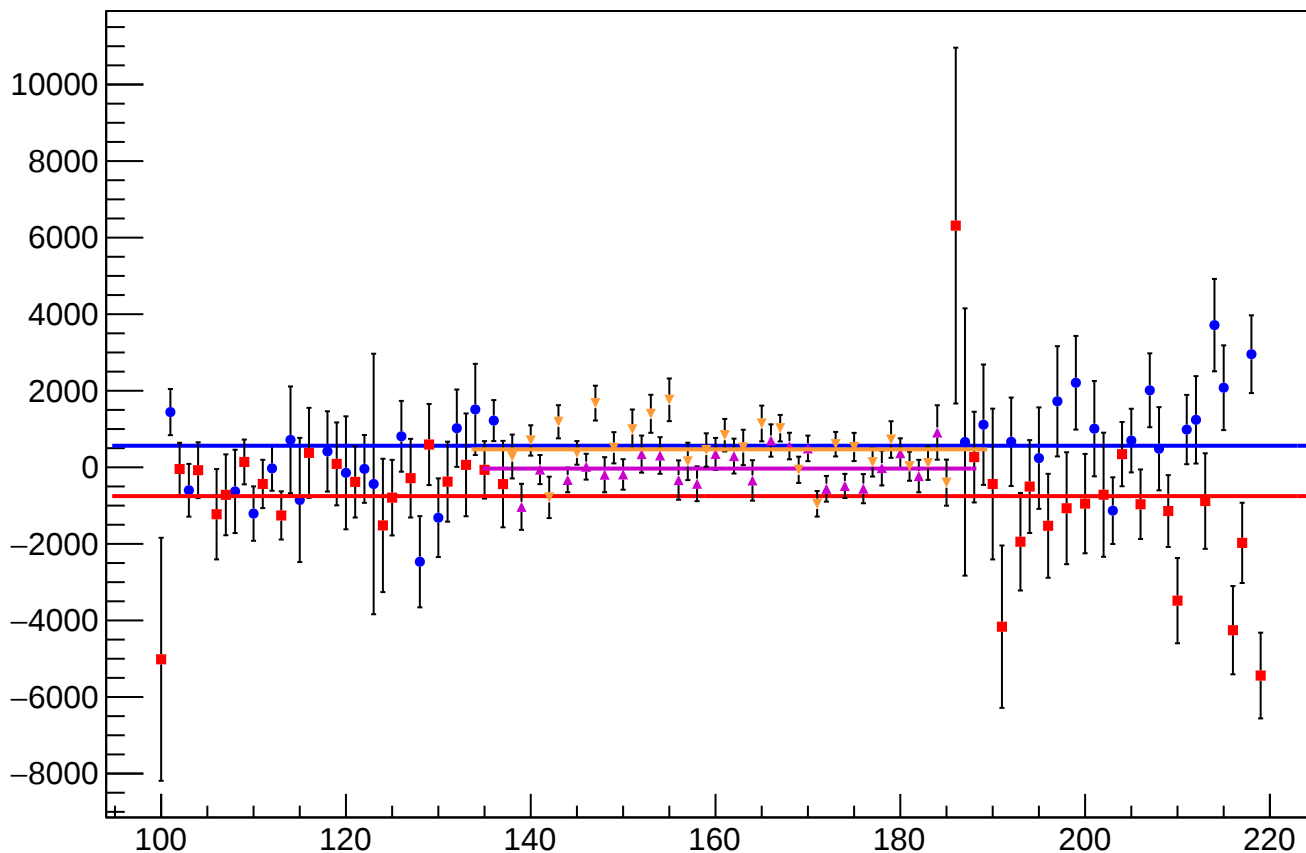
Right: 678.602+/-0.083 χ^2/NDF : 8765160.8/69

In: 411.697+/-0.053 χ^2/NDF : 10845211.3/55

Out: 414.169+/-0.052 χ^2/NDF : 12518569.7/61

All: 412.957+/-0.037 χ^2/NDF : 23364882.4/117

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 563.562 $\pm$ 169.120 χ^2 /NDF: 50.9/32

Left Out: 468.863 $\pm$ 83.295 χ^2 /NDF:57.5/24

Right Out: -752.120 $\pm$ 167.026 χ^2 /NDF: 55.3/36

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

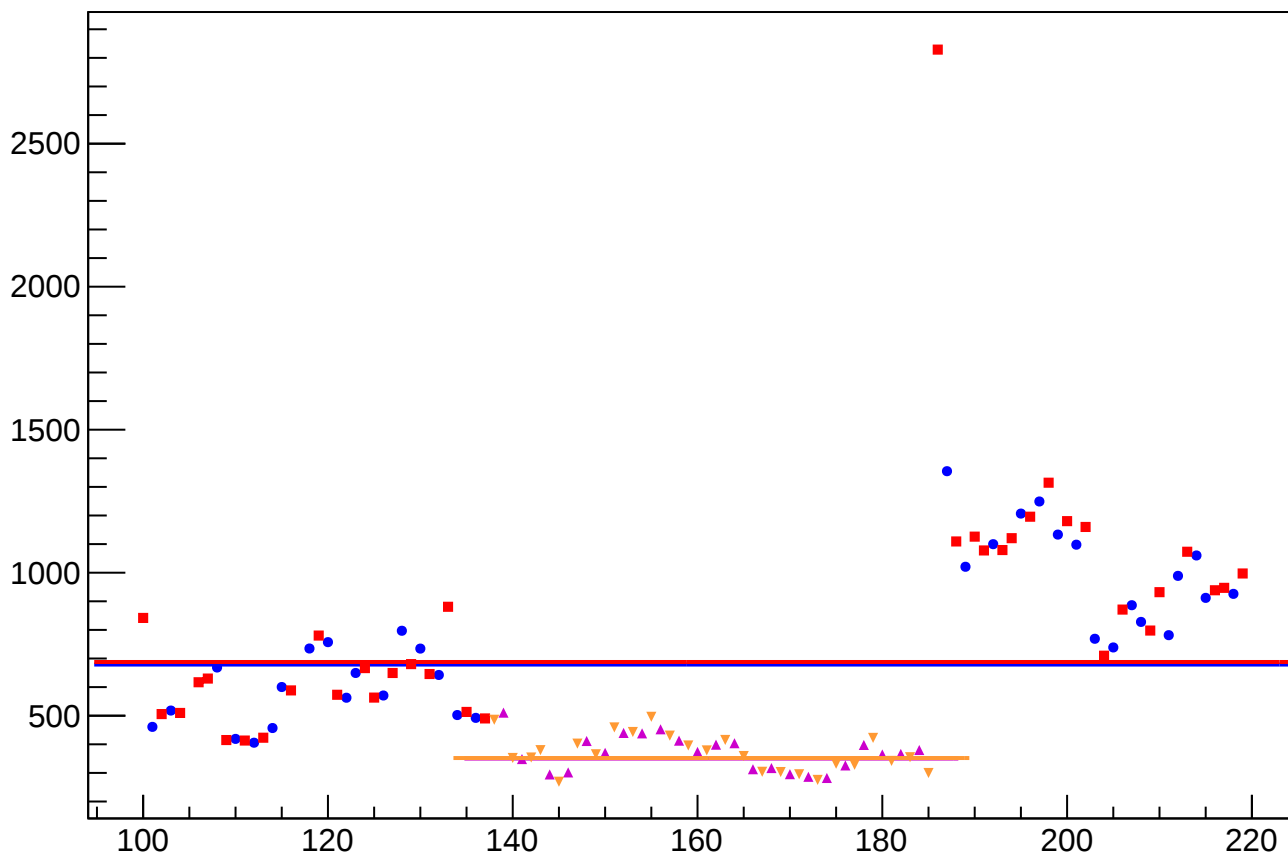
Right: -102.473 $\pm$ 118.839 χ^2 /NDF: 136.8/69

In: 87.609 $\pm$ 75.992 χ^2 /NDF:86.5/55

Out: 225.685 $\pm$ 74.541 χ^2 /NDF:155.6/61

All: 157.979 $\pm$ 53.214 χ^2 /NDF: 243.8/117

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 678.864 $\pm$ 0.120 χ^2 /NDF: 3828015.2/32

Left Out: 352.015 $\pm$ 0.059 χ^2 /NDF: 1017195.6/24

Right Out: 687.820 $\pm$ 0.118 χ^2 /NDF: 4915586.1/36

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

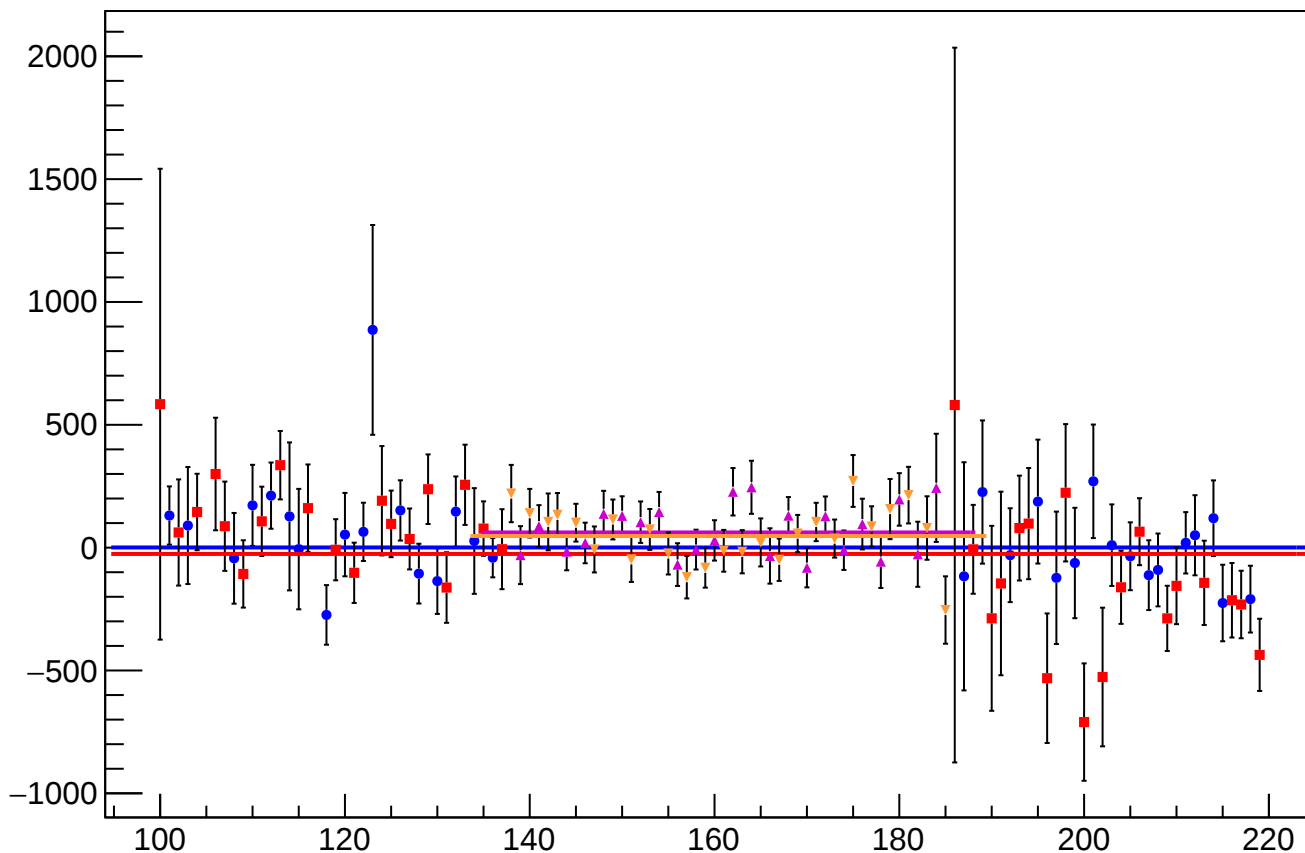
Right: 683.398 $\pm$ 0.084 χ^2 /NDF: 8746441.0/69

In: 416.528 $\pm$ 0.054 χ^2 /NDF: 10736191.2/55

Out: 418.896 $\pm$ 0.053 χ^2 /NDF: 12406867.6/61

All: 417.735 $\pm$ 0.038 χ^2 /NDF: 23144048.4/117

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 0.725 ± 27.034 $\chi^2/\text{NDF}: 28.7/32$

Left Out: 47.426 ± 18.253 $\chi^2/\text{NDF}: 29.4/24$

Right Out: -25.507 ± 27.284 $\chi^2/\text{NDF}: 59.0/36$

Left In: 61.830 ± 18.958 $\chi^2/\text{NDF}: 24.0/22$

Left: 54.355 ± 13.149 $\chi^2/\text{NDF}: 53.7/47$

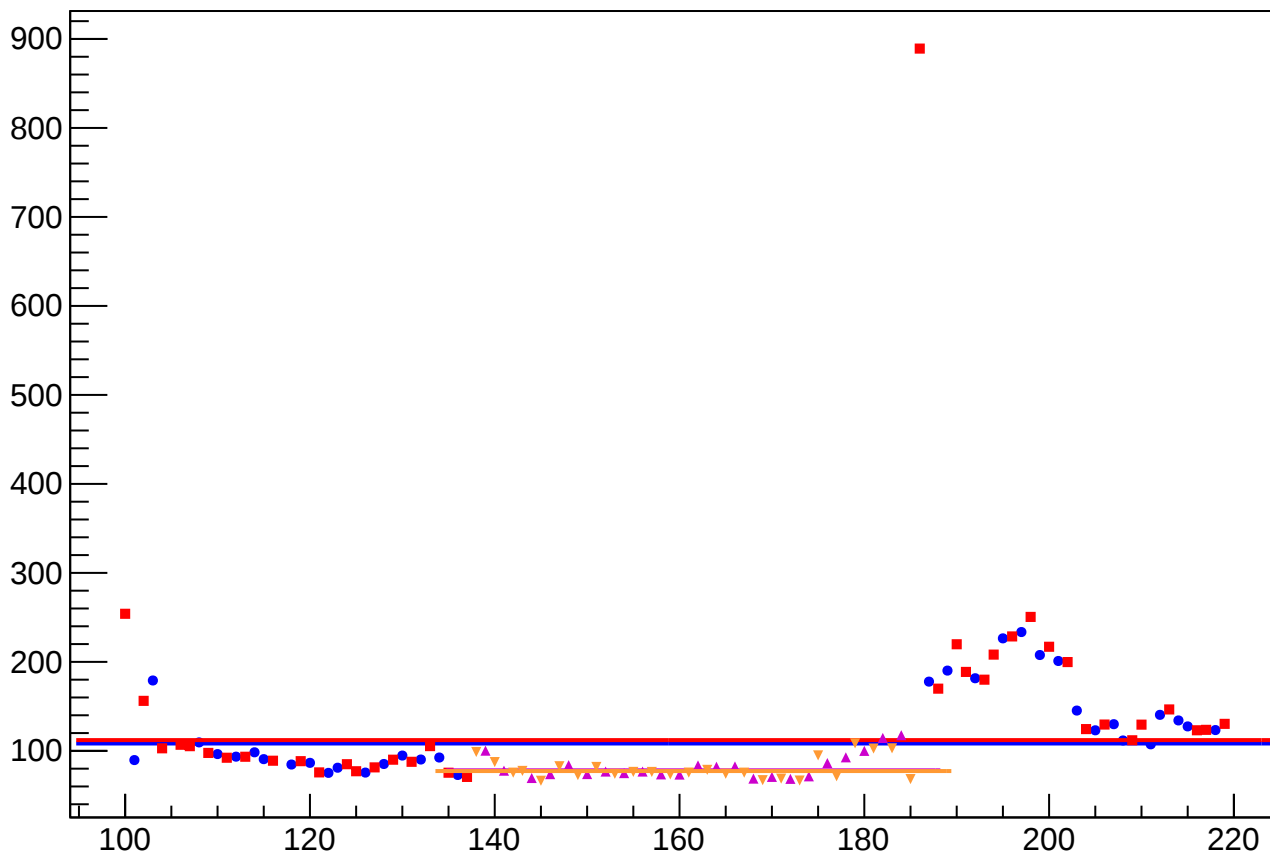
Right: -12.270 ± 19.204 $\chi^2/\text{NDF}: 88.2/69$

In: 41.686 ± 15.521 $\chi^2/\text{NDF}: 56.1/55$

Out: 24.877 ± 15.171 $\chi^2/\text{NDF}: 93.3/61$

All: 33.089 ± 10.849 $\chi^2/\text{NDF}: 150.0/117$

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 108.290 $\pm$ 0.019 χ^2 /NDF: 3654941.6/32

Left Out: 77.316 $\pm$ 0.013 χ^2 /NDF:635622.3/24

Right Out: 112.093 $\pm$ 0.019 χ^2 /NDF: 4513124.0/36

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

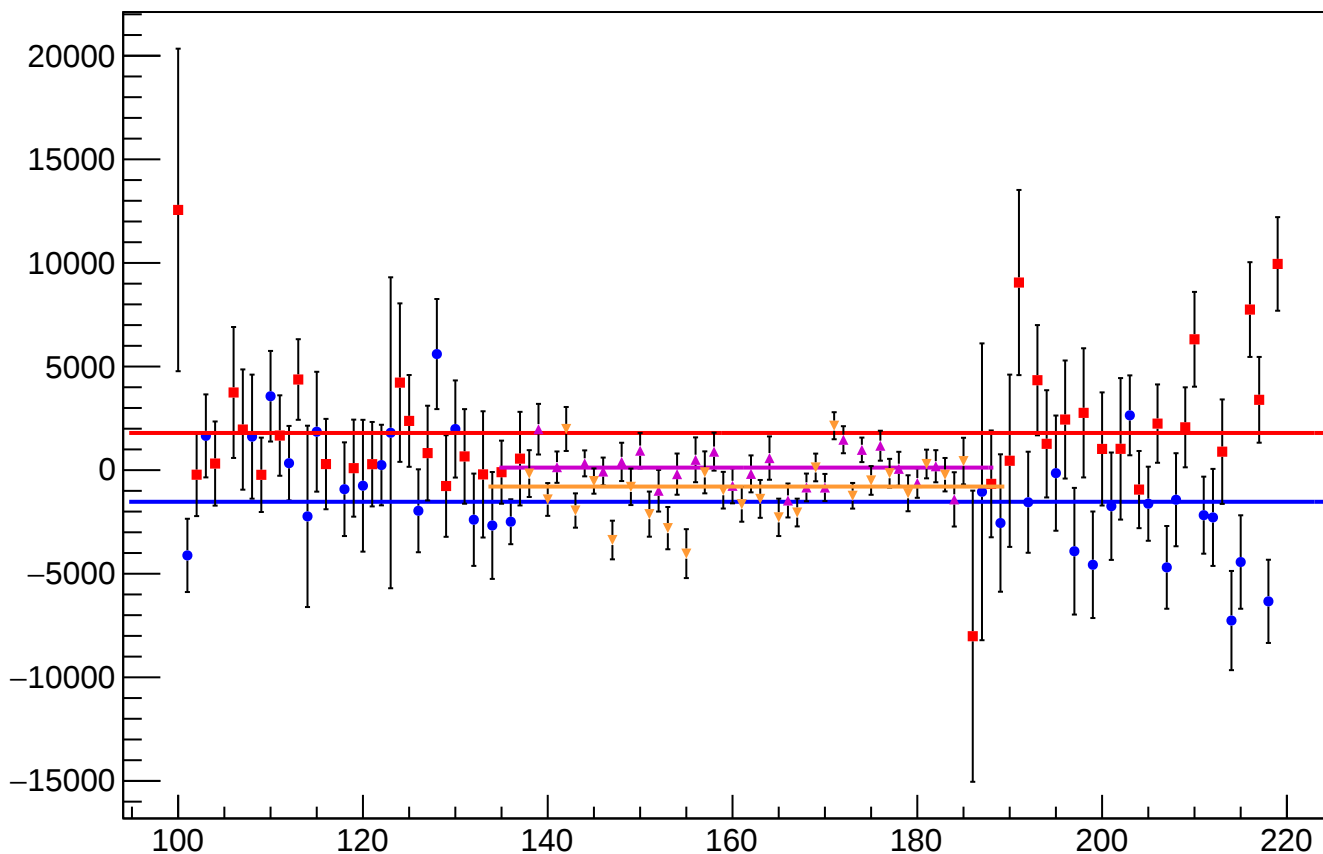
Right: 110.174 $\pm$ 0.014 χ^2 /NDF: 8187675.5/69

In: 88.078 $\pm$ 0.011 χ^2 /NDF:5904812.6/55

Out: 88.068 $\pm$ 0.011 χ^2 /NDF:7393480.6/61

All: 88.073 $\pm$ 0.008 χ^2 /NDF: 13298293.6/117

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -1527.508 ± 387.475 $\chi^2/\text{NDF}: 48.4/32$

Left Out: -792.776 ± 162.659 $\chi^2/\text{NDF}: 66.6/24$

Right Out: 1793.999 ± 389.842 $\chi^2/\text{NDF}: 46.2/36$

Left In: 122.198 ± 166.193 $\chi^2/\text{NDF}: 25.9/22$

Left: -345.122 ± 116.247 $\chi^2/\text{NDF}: 108.0/47$

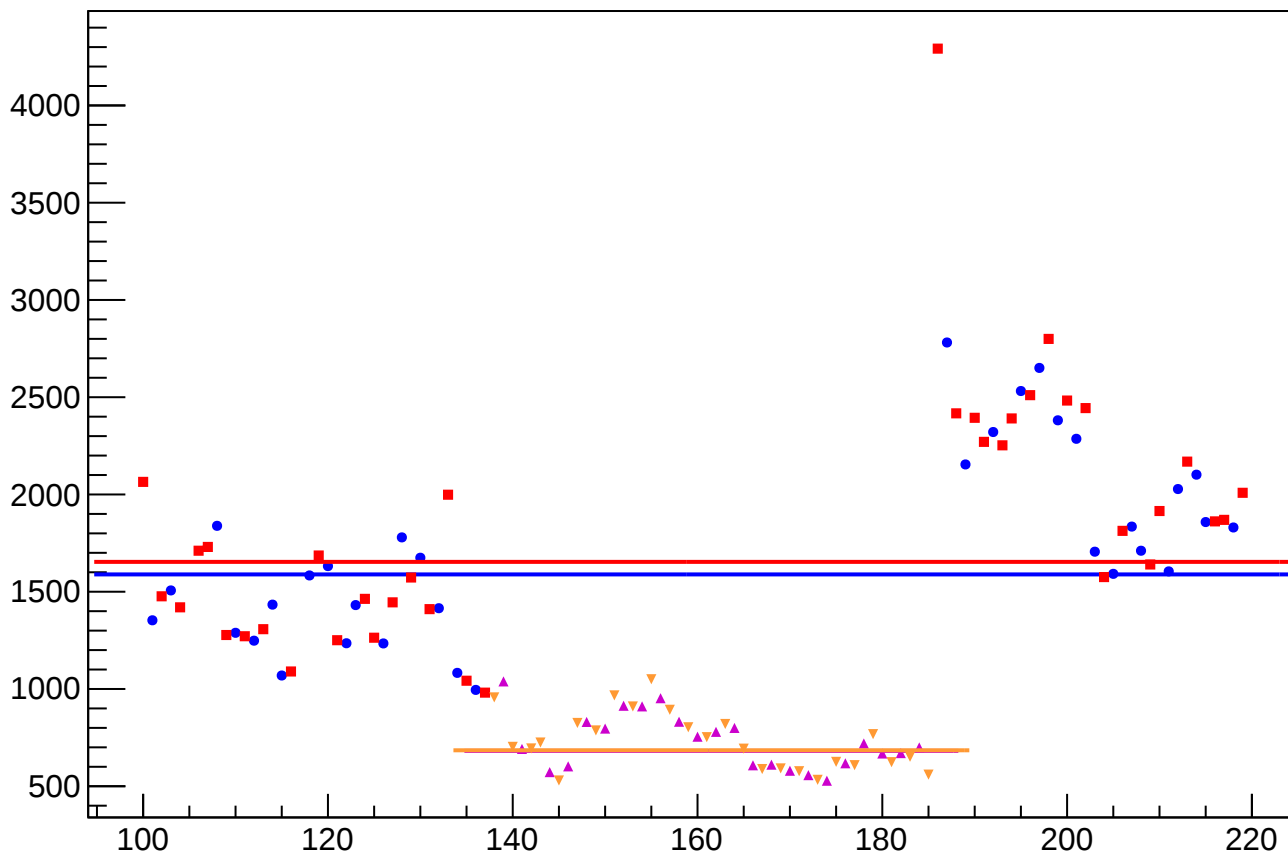
Right: 123.128 ± 274.819 $\chi^2/\text{NDF}: 131.1/69$

In: -134.137 ± 152.737 $\chi^2/\text{NDF}: 89.6/55$

Out: -409.215 ± 150.116 $\chi^2/\text{NDF}: 150.3/61$

All: -274.057 ± 107.063 $\chi^2/\text{NDF}: 241.6/117$

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1589.005 $\pm$ 0.274 χ^2 /NDF: 2424632.4/32

Left Out: 684.785 $\pm$ 0.115 χ^2 /NDF:1280146.2/24

Right Out: 1653.482 $\pm$ 0.276 χ^2 /NDF: 2905605.9/36

Left In: 681.712 $\pm$ 0.118 χ^2 /NDF:1119637.0/22

Left: 683.282 $\pm$ 0.082 χ^2 /NDF: 2400132.5/47

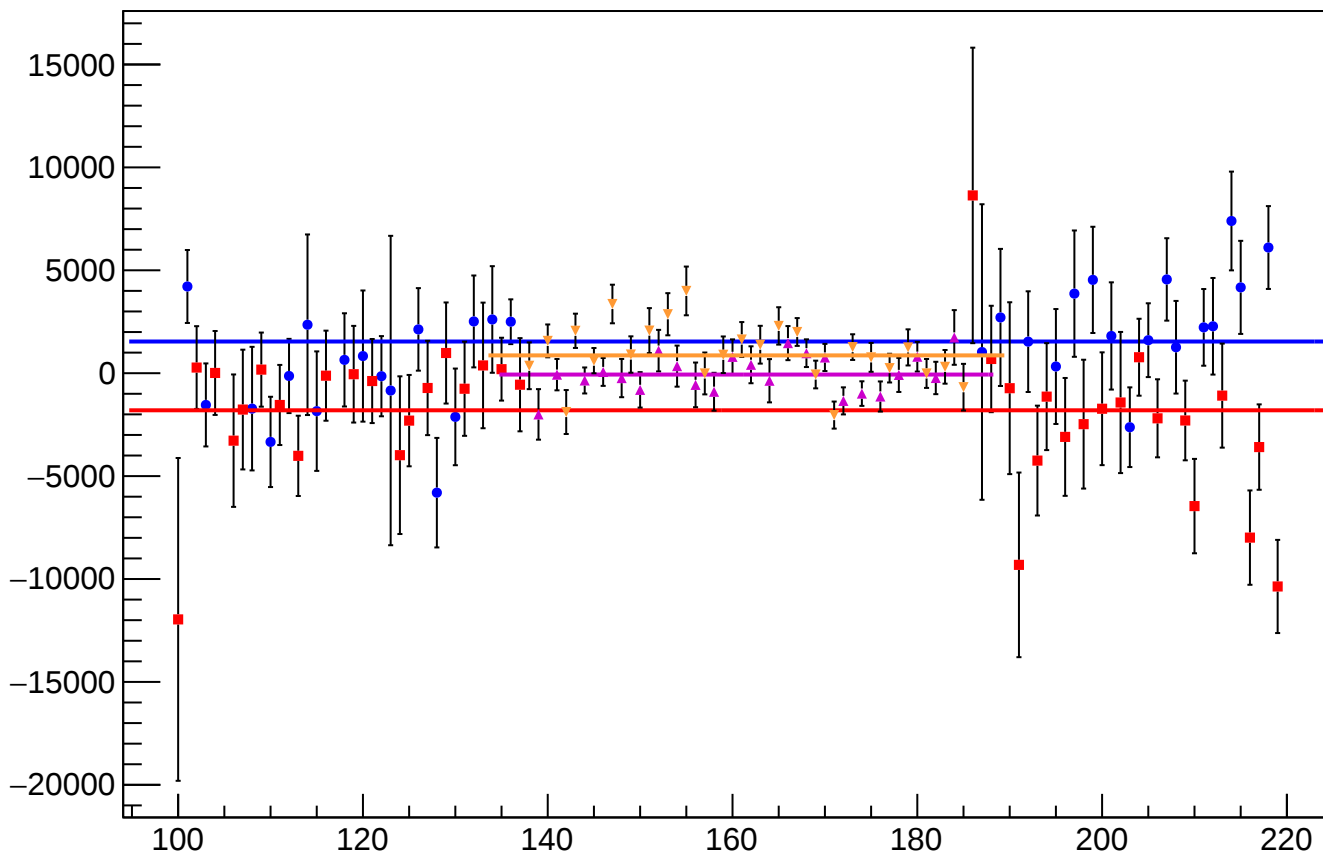
Right: 1621.047 $\pm$ 0.194 χ^2 /NDF: 5357760.3/69

In: 822.689 $\pm$ 0.108 χ^2 /NDF:12806132.8/55

Out: 828.421 $\pm$ 0.106 χ^2 /NDF:14703590.9/61

All: 825.605 $\pm$ 0.076 χ^2 /NDF: 27511156.4/118

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 1539.808 $\pm$ 388.619 χ^2 /NDF: 47.2/32

Left Out: 865.597 $\pm$ 163.885 χ^2 /NDF: 62.8/24

Right Out: -1802.297 $\pm$ 391.113 χ^2 /NDF: 48.1/36

Left In: -65.924 $\pm$ 167.485 χ^2 /NDF: 26.4/22

Left: 409.953 $\pm$ 117.136 χ^2 /NDF: 105.1/47

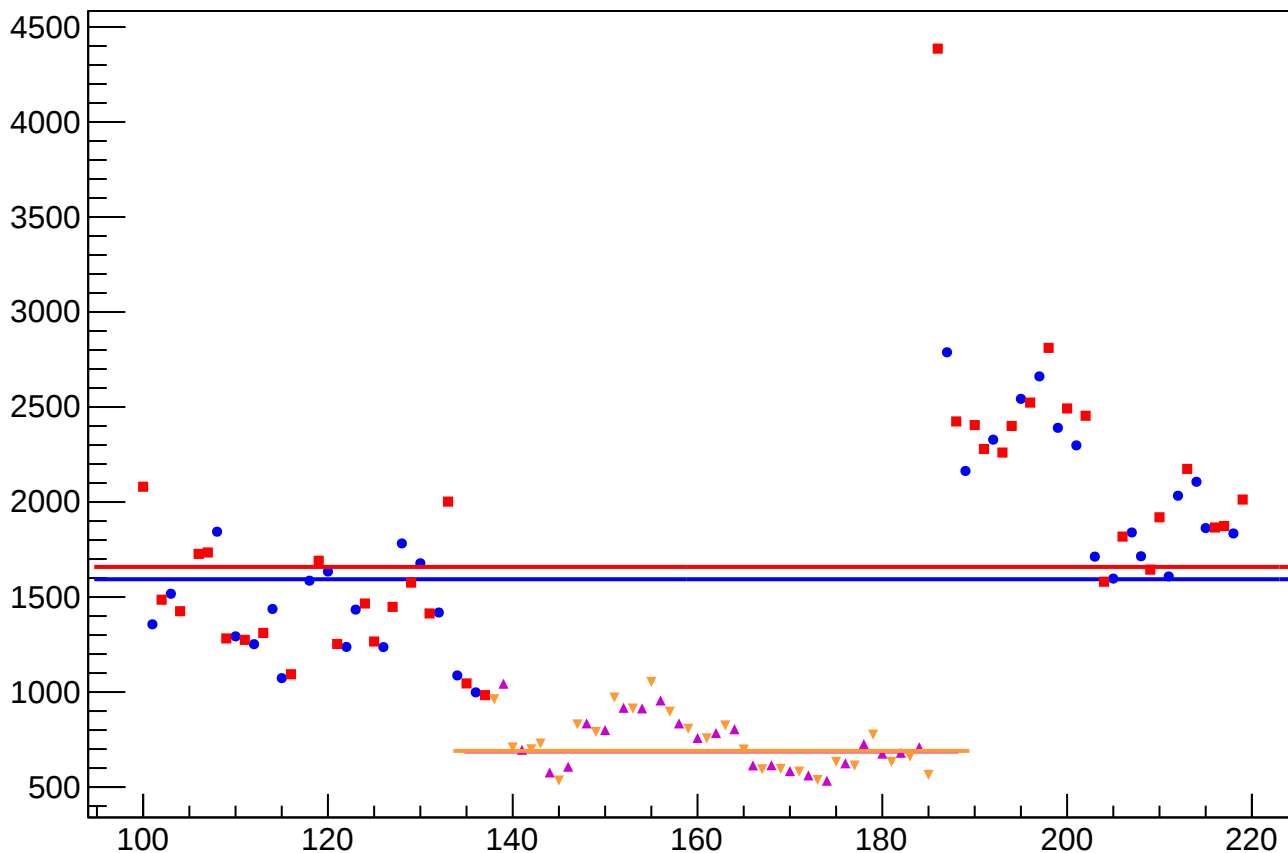
Right: -120.557 $\pm$ 275.673 χ^2 /NDF: 132.1/69

In: 185.603 $\pm$ 153.808 χ^2 /NDF: 88.0/55

Out: 467.130 $\pm$ 151.152 χ^2 /NDF: 150.6/61

All: 328.819 $\pm$ 107.808 χ^2 /NDF: 240.3/117

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1593.634 $\pm$ 0.275 χ^2 /NDF: 2427650.4/32

Left Out: 690.166 $\pm$ 0.116 χ^2 /NDF:1258158.2/24

Right Out: 1658.392 $\pm$ 0.277 χ^2 /NDF: 2916786.8/36

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

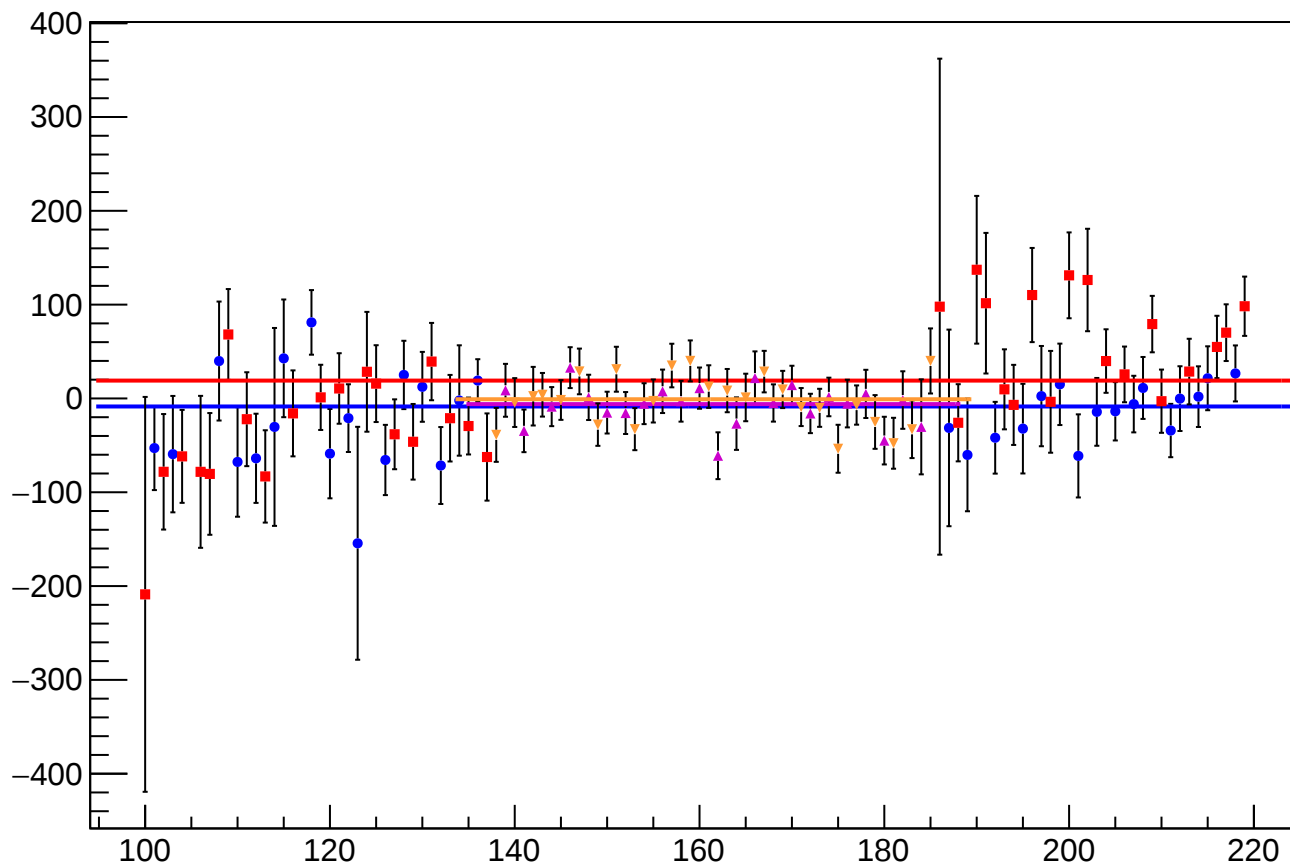
Right: 1625.806 $\pm$ 0.195 χ^2 /NDF: 5372026.8/69

In: 829.201 $\pm$ 0.109 χ^2 /NDF:12703268.2/55

Out: 834.777 $\pm$ 0.107 χ^2 /NDF:14601158.5/61

All: 832.037 $\pm$ 0.076 χ^2 /NDF: 27305764.1/11

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -8.568 ± 6.914 $\chi^2/\text{NDF}: 29.1/32$

Left Out: -0.861 ± 4.760 $\chi^2/\text{NDF}: 27.9/24$

Right Out: 19.025 ± 6.980 $\chi^2/\text{NDF}: 62.4/36$

Left In: -6.042 ± 4.925 $\chi^2/\text{NDF}: 16.9/22$

Left: -3.363 ± 3.423 $\chi^2/\text{NDF}: 45.4/47$

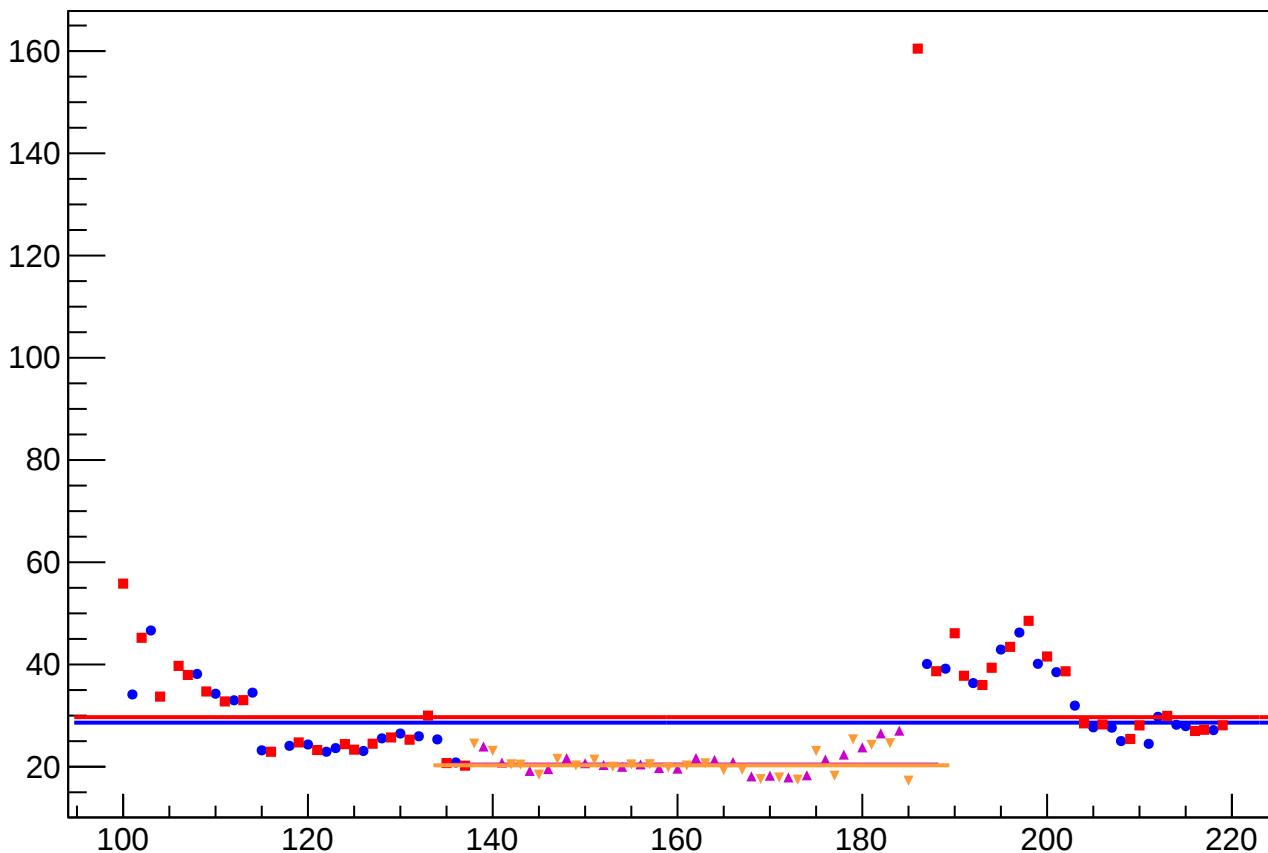
Right: 5.098 ± 4.912 $\chi^2/\text{NDF}: 99.5/69$

In: -6.892 ± 4.011 $\chi^2/\text{NDF}: 46.2/55$

Out: 5.452 ± 3.933 $\chi^2/\text{NDF}: 95.9/61$

All: -0.598 ± 2.808 $\chi^2/\text{NDF}: 146.9/117$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 28.625+/-0.005 χ^2/NDF : 1618800.8/32

Left Out: 20.279+/-0.003 χ^2/NDF : 407056.4/24

Right Out: 29.697+/-0.005 χ^2/NDF : 2322077.1/36

Left In: 20.424+/-0.003 χ^2/NDF : 323427.4/22

Left: 20.349+/-0.002 χ^2/NDF : 731373.7/47

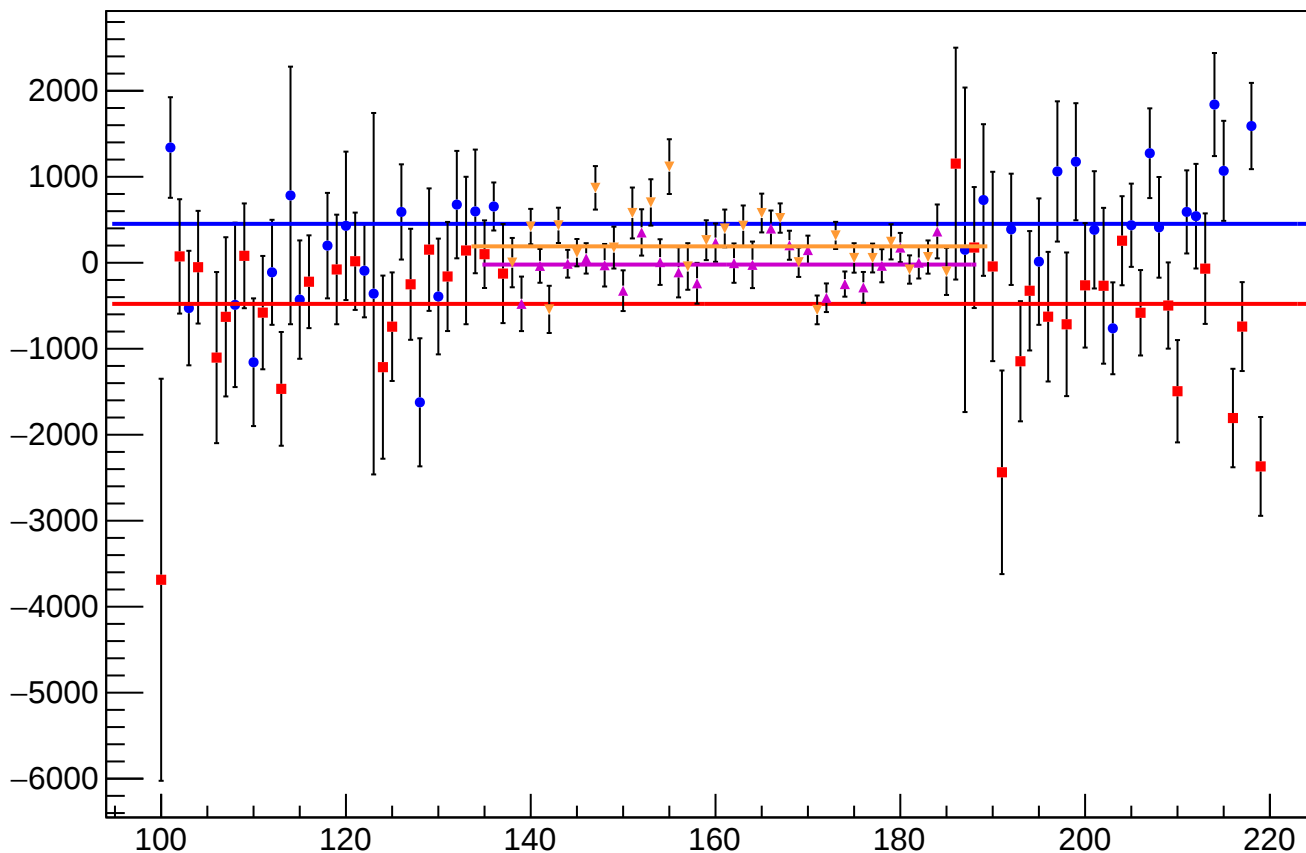
Right: 29.156+/-0.003 χ^2/NDF : 3964704.0/69

In: 23.185+/-0.003 χ^2/NDF : 3809156.1/55

Out: 23.269+/-0.003 χ^2/NDF : 5214671.4/61

All: 23.228+/-0.002 χ^2/NDF : 9024280.8/117

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 452.608 $\pm$ 106.476 χ^2 /NDF: 45.7/32

Left Out: 190.867 $\pm$ 41.314 χ^2 /NDF: 67.9/24

Right Out: -478.240 $\pm$ 108.020 χ^2 /NDF: 41.1/36

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

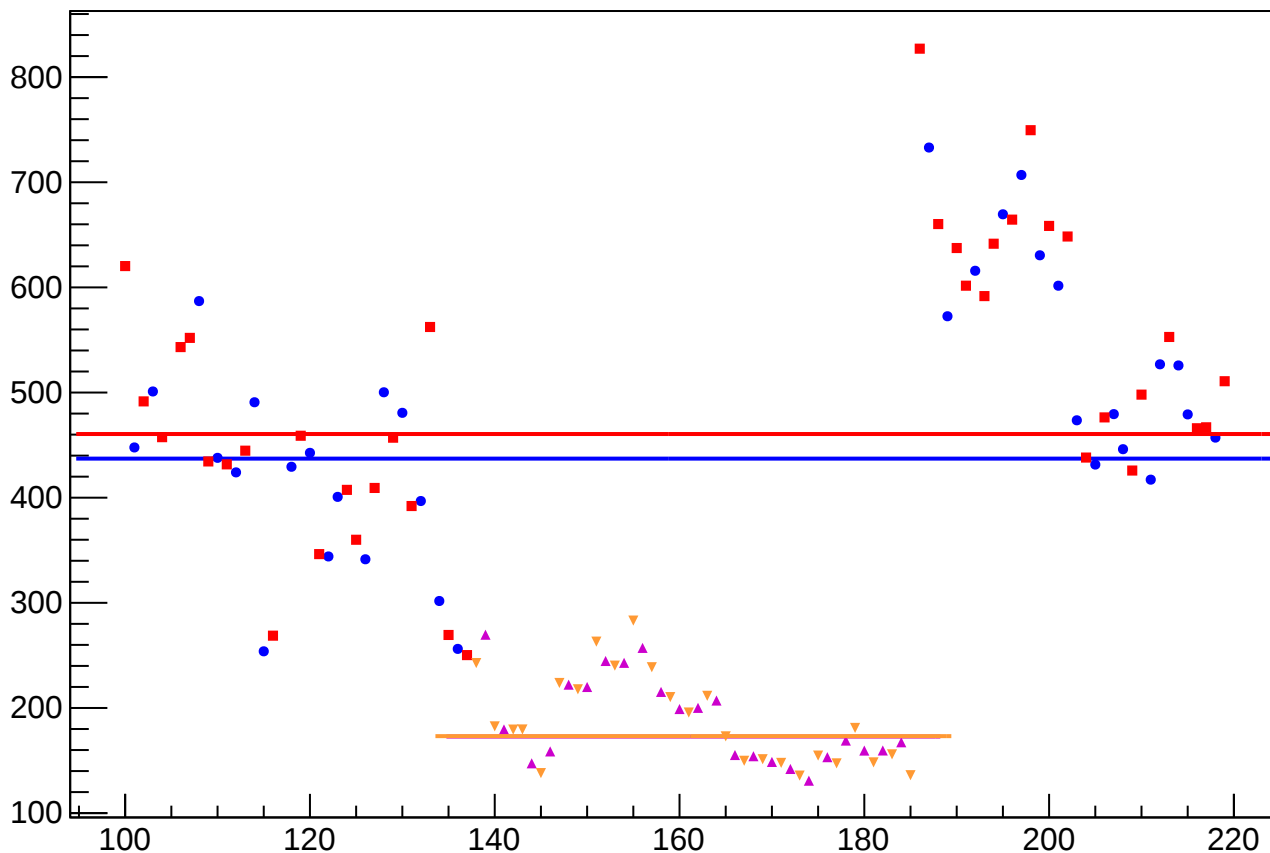
Right: -6.116 $\pm$ 75.830 χ^2 /NDF: 124.4/69

In: 43.536 $\pm$ 39.304 χ^2 /NDF: 90.5/55

Out: 105.480 $\pm$ 38.588 χ^2 /NDF: 142.4/61

All: 75.078 $\pm$ 27.535 χ^2 /NDF: 234.2/117

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 437.160 $\pm$ 0.075 χ^2 /NDF: 2346838.2/32

Left Out: 173.210 $\pm$ 0.029 χ^2 /NDF:1561250.6/24

Right Out: 460.551 $\pm$ 0.076 χ^2 /NDF: 2545073.7/36

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

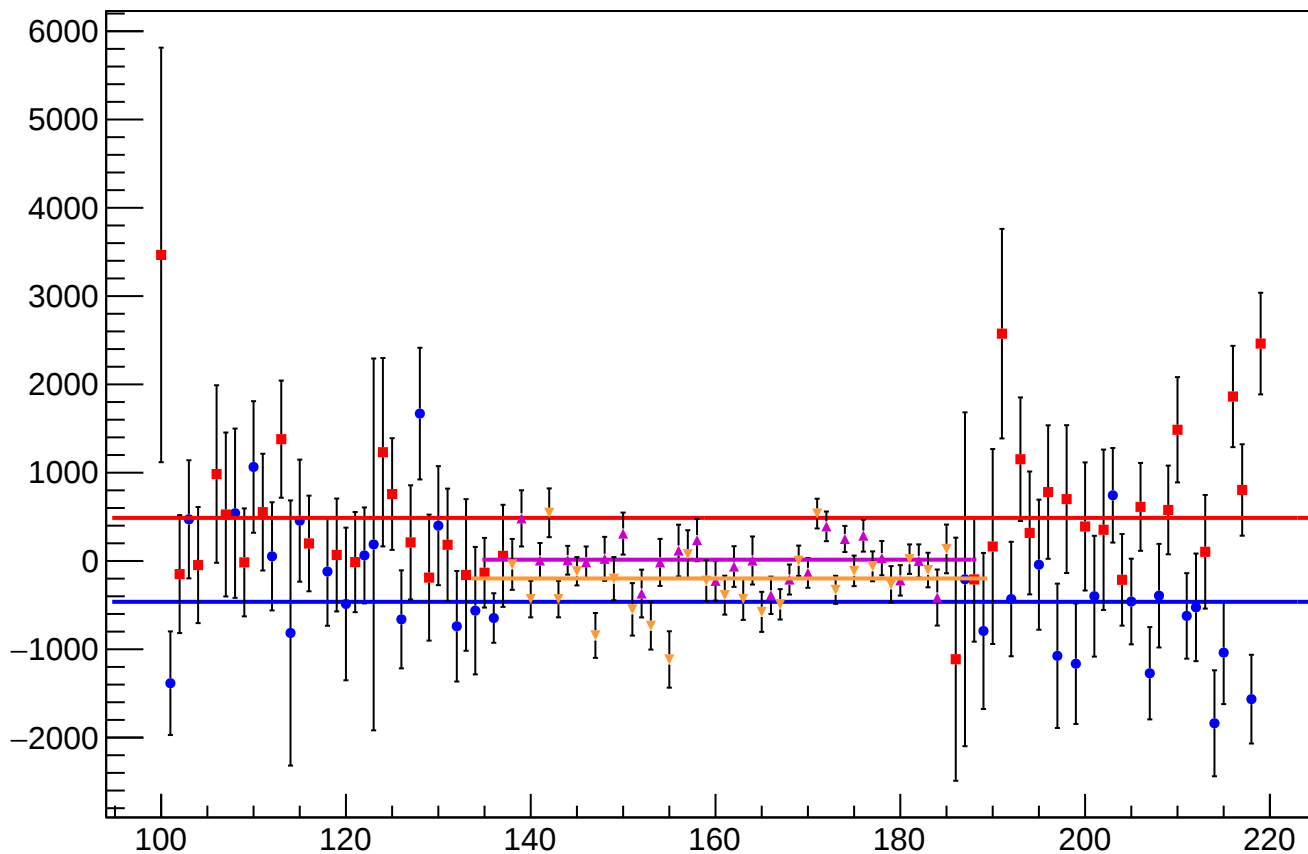
Right: 448.687 $\pm$ 0.054 χ^2 /NDF: 4939479.3/69

In: 208.846 $\pm$ 0.028 χ^2 /NDF:14365612.7/55

Out: 209.879 $\pm$ 0.027 χ^2 /NDF:16452444.5/61

All: 209.372 $\pm$ 0.019 χ^2 /NDF: 30818759.9/119

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -462.581 ± 106.737 $\chi^2/\text{NDF}: 44.9/32$

Left Out: -197.918 ± 41.638 $\chi^2/\text{NDF}: 64.3/24$

Right Out: 487.951 ± 108.301 $\chi^2/\text{NDF}: 42.7/36$

Left In: 14.616 ± 42.629 $\chi^2/\text{NDF}: 27.7/22$

Left: -94.151 ± 29.787 $\chi^2/\text{NDF}: 104.7/47$

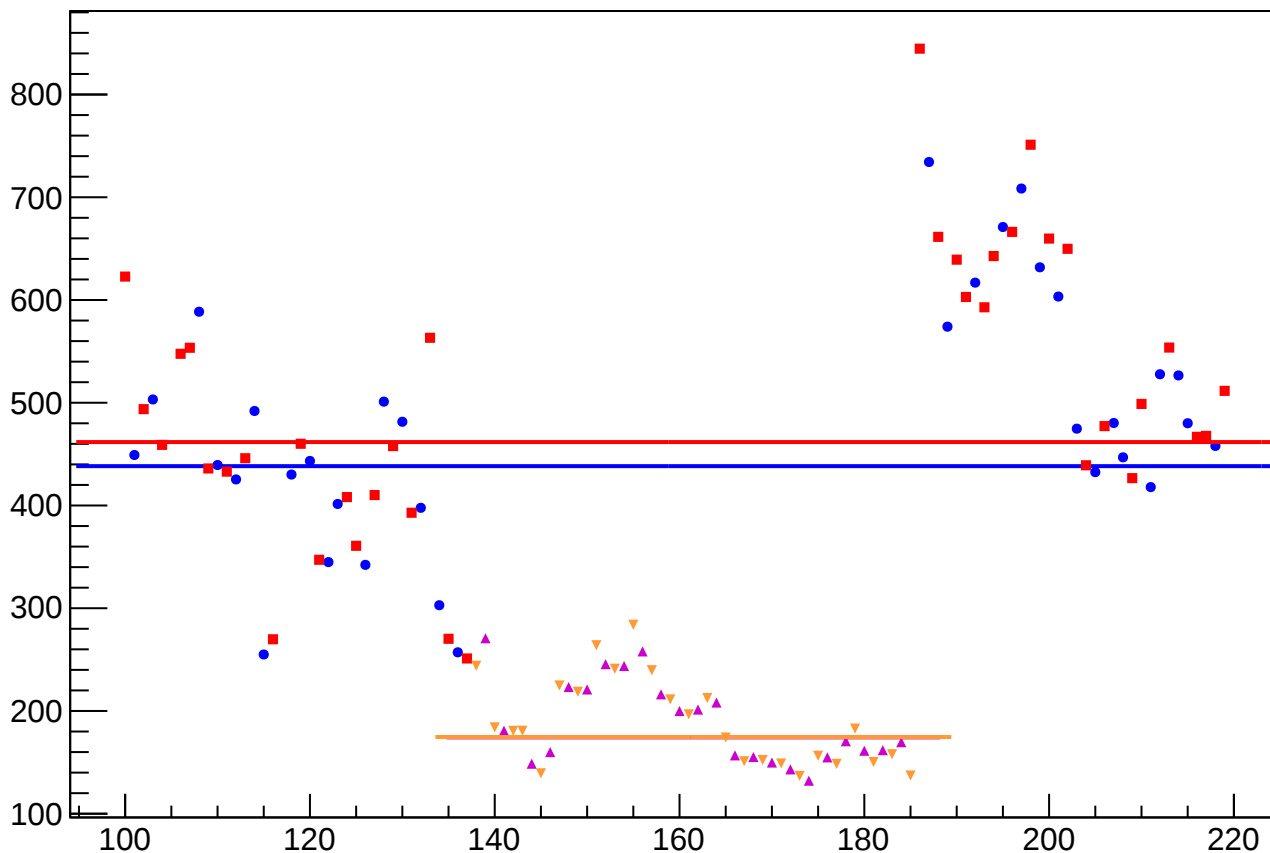
Right: 5.775 ± 76.022 $\chi^2/\text{NDF}: 126.7/69$

In: -51.030 ± 39.589 $\chi^2/\text{NDF}: 89.9/55$

Out: -109.592 ± 38.865 $\chi^2/\text{NDF}: 141.9/61$

All: -80.852 ± 27.734 $\chi^2/\text{NDF}: 232.9/117$

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 438.291 $\pm$ 0.075 χ^2/NDF : 2339080.5/32

Left Out: 174.648 $\pm$ 0.029 χ^2/NDF :1531999.5/24

Right Out: 461.725 $\pm$ 0.077 χ^2/NDF : 2547187.7/36

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

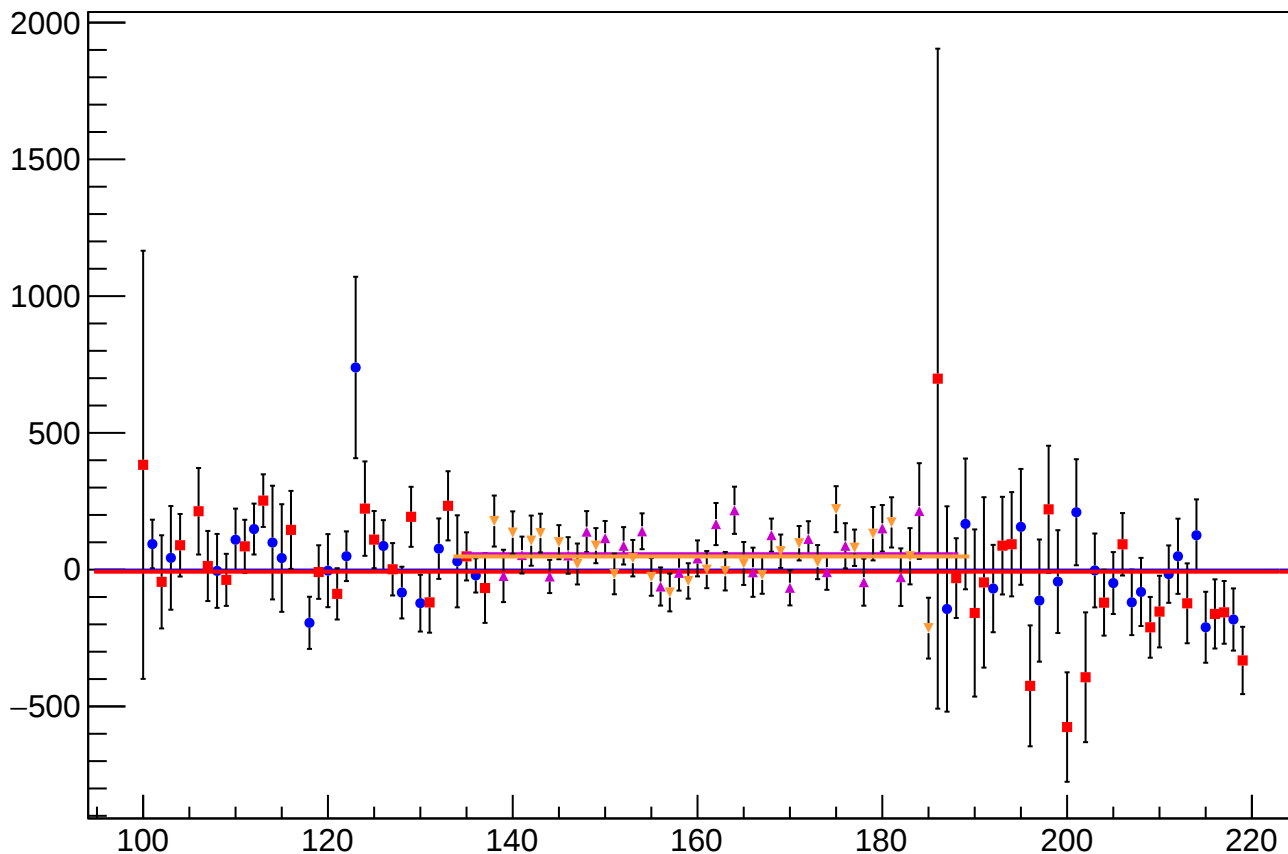
Right: 449.837 $\pm$ 0.054 χ^2/NDF : 4933769.7/69

In: 210.606 $\pm$ 0.028 χ^2/NDF :14235941.1/55

Out: 211.617 $\pm$ 0.027 χ^2/NDF :16322285.2/61

All: 211.121 $\pm$ 0.020 χ^2/NDF : 30558891.3/11

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -3.265 ± 21.300 $\chi^2/\text{NDF}: 28.7/32$

Left Out: 48.233 ± 14.616 $\chi^2/\text{NDF}: 29.3/24$

Right Out: -7.449 ± 21.305 $\chi^2/\text{NDF}: 58.3/36$

Left In: 56.403 ± 15.182 $\chi^2/\text{NDF}: 27.5/22$

Left: 52.163 ± 10.529 $\chi^2/\text{NDF}: 56.9/47$

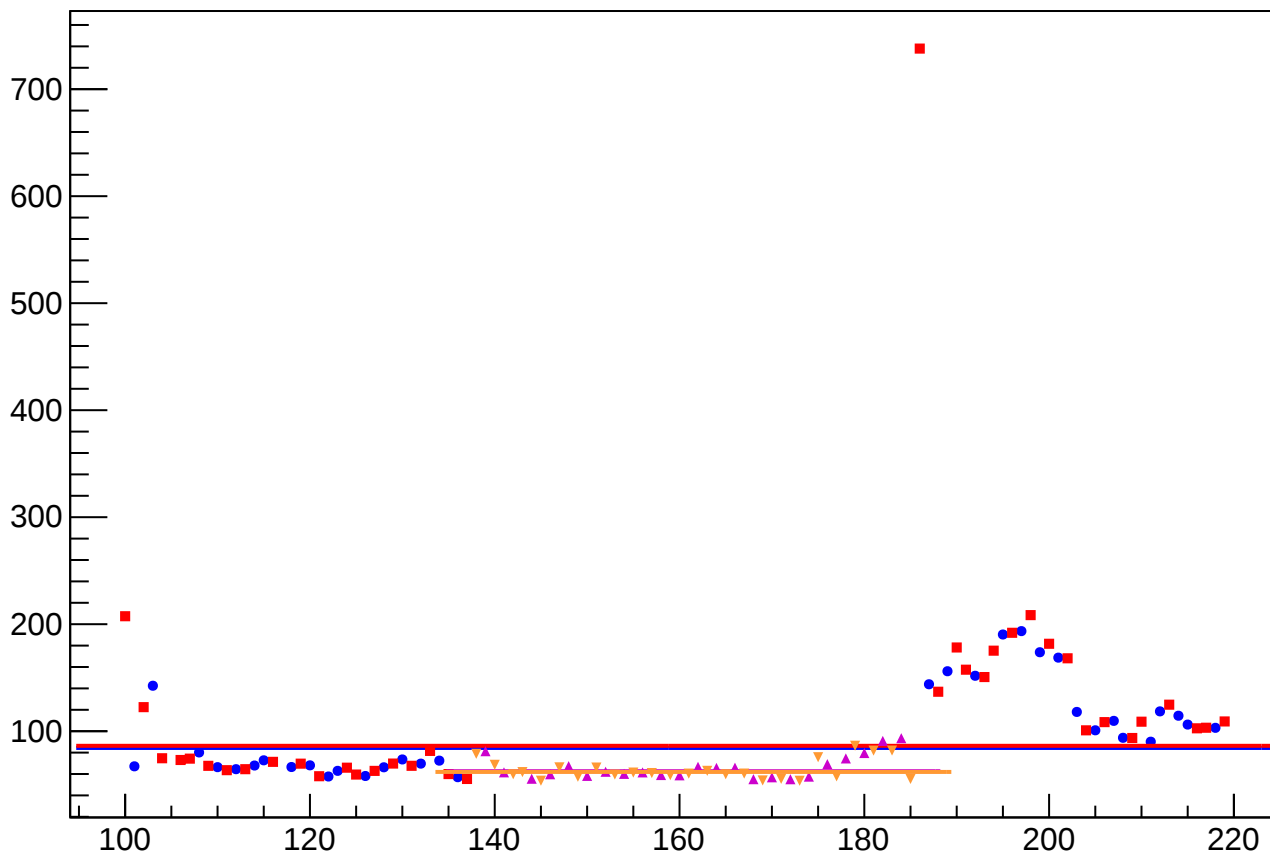
Right: -5.356 ± 15.063 $\chi^2/\text{NDF}: 87.0/69$

In: 36.302 ± 12.363 $\chi^2/\text{NDF}: 61.4/55$

Out: 30.414 ± 12.052 $\chi^2/\text{NDF}: 92.2/61$

All: 33.283 ± 8.630 $\chi^2/\text{NDF}: 153.7/117$

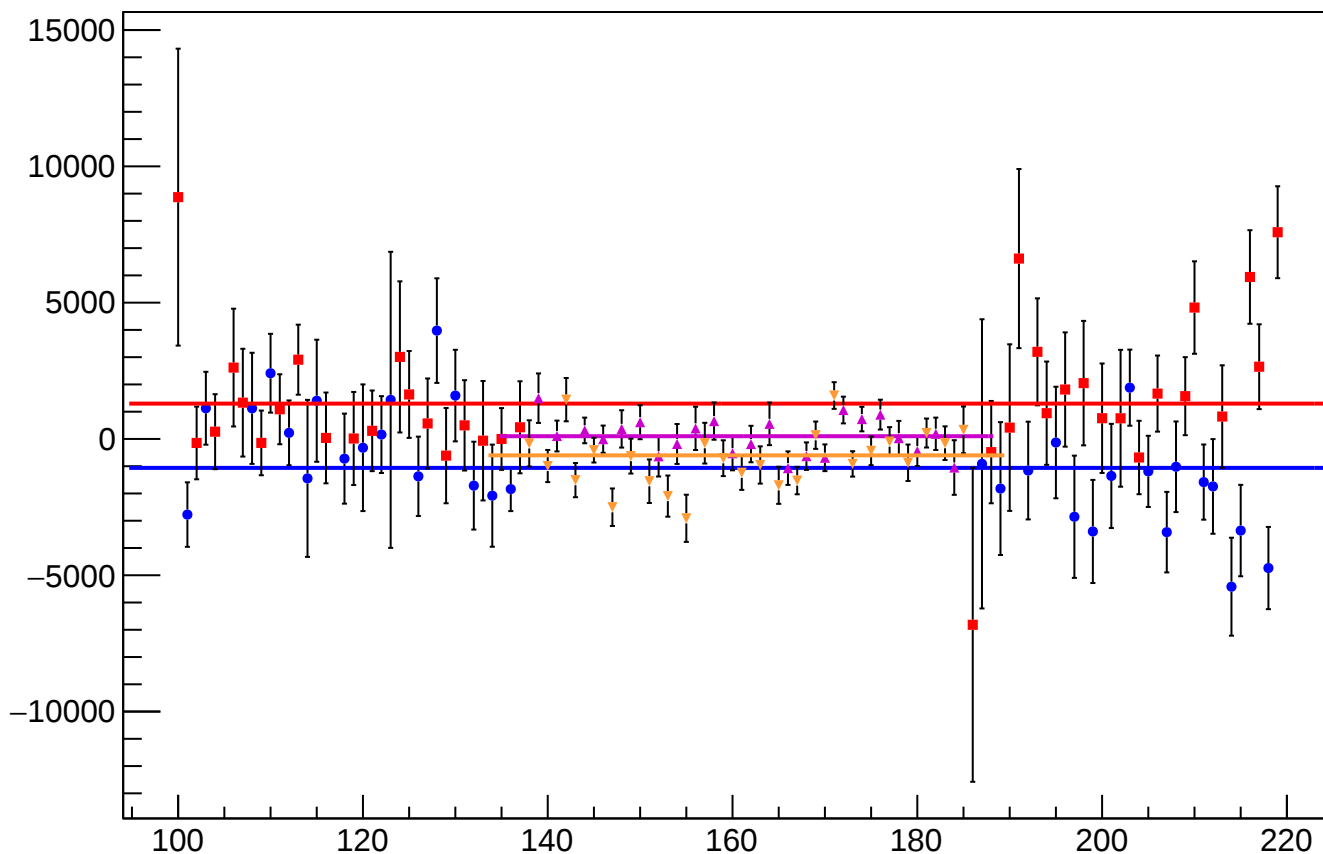
reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 84.347+/-0.015 χ^2/NDF : 4394076.8/32
 Left Out: 61.946+/-0.010 χ^2/NDF : 604989.2/24
 Right Out: 86.349+/-0.015 χ^2/NDF : 5388418.1/36
 Left In: 62.607+/-0.011 χ^2/NDF : 575516.1/22

Left: 62.264+/-0.007 χ^2/NDF : 1182470.7/47
 Right: 85.348+/-0.011 χ^2/NDF : 9791331.4/69
 In: 69.931+/-0.009 χ^2/NDF : 6351099.0/55
 Out: 69.756+/-0.009 χ^2/NDF : 7777566.9/61
 All: 69.841+/-0.006 χ^2/NDF : 14128871.9/117

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -1061.209 $\pm$ 279.484 χ^2 /NDF: 49.5/32

Left Out: -601.486 $\pm$ 122.119 χ^2 /NDF:65.4/24

Right Out: 1296.537 $\pm$ 279.851 χ^2 /NDF: 48.2/36

Left In: 100.548 $\pm$ 124.725 χ^2 /NDF:25.5/22

Left: -257.880 $\pm$ 87.258 χ^2 /NDF: 107.0/47

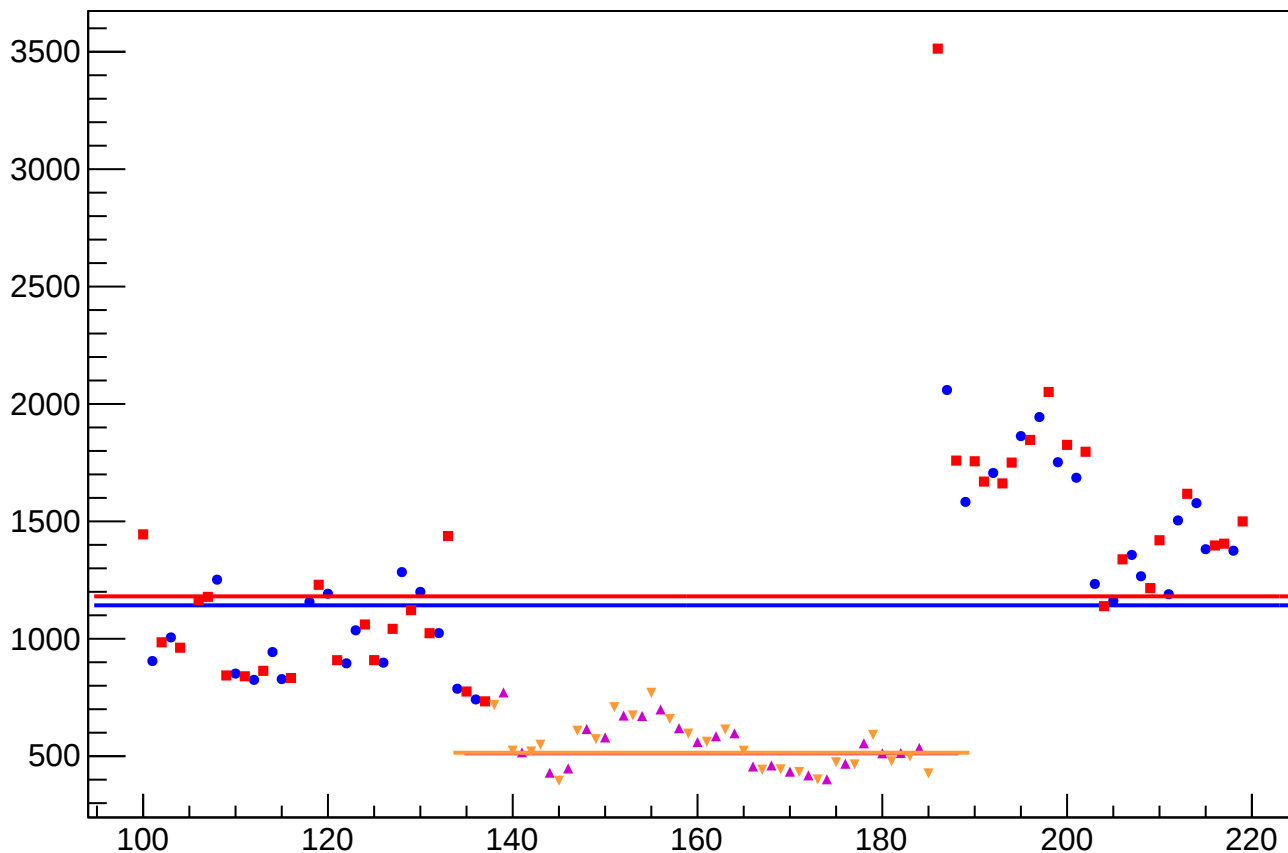
Right: 116.118 $\pm$ 197.755 χ^2 /NDF: 133.2/69

In: -92.396 $\pm$ 113.898 χ^2 /NDF:89.4/55

Out: -297.879 $\pm$ 111.926 χ^2 /NDF:152.2/61

All: -196.931 $\pm$ 79.832 χ^2 /NDF: 243.3/117

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 1142.418 $\pm$ 0.198 χ^2 /NDF: 2641667.2/32

Left Out: 514.758 $\pm$ 0.086 χ^2 /NDF:1194945.9/24

Right Out: 1180.717 $\pm$ 0.198 χ^2 /NDF: 3274352.1/36

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

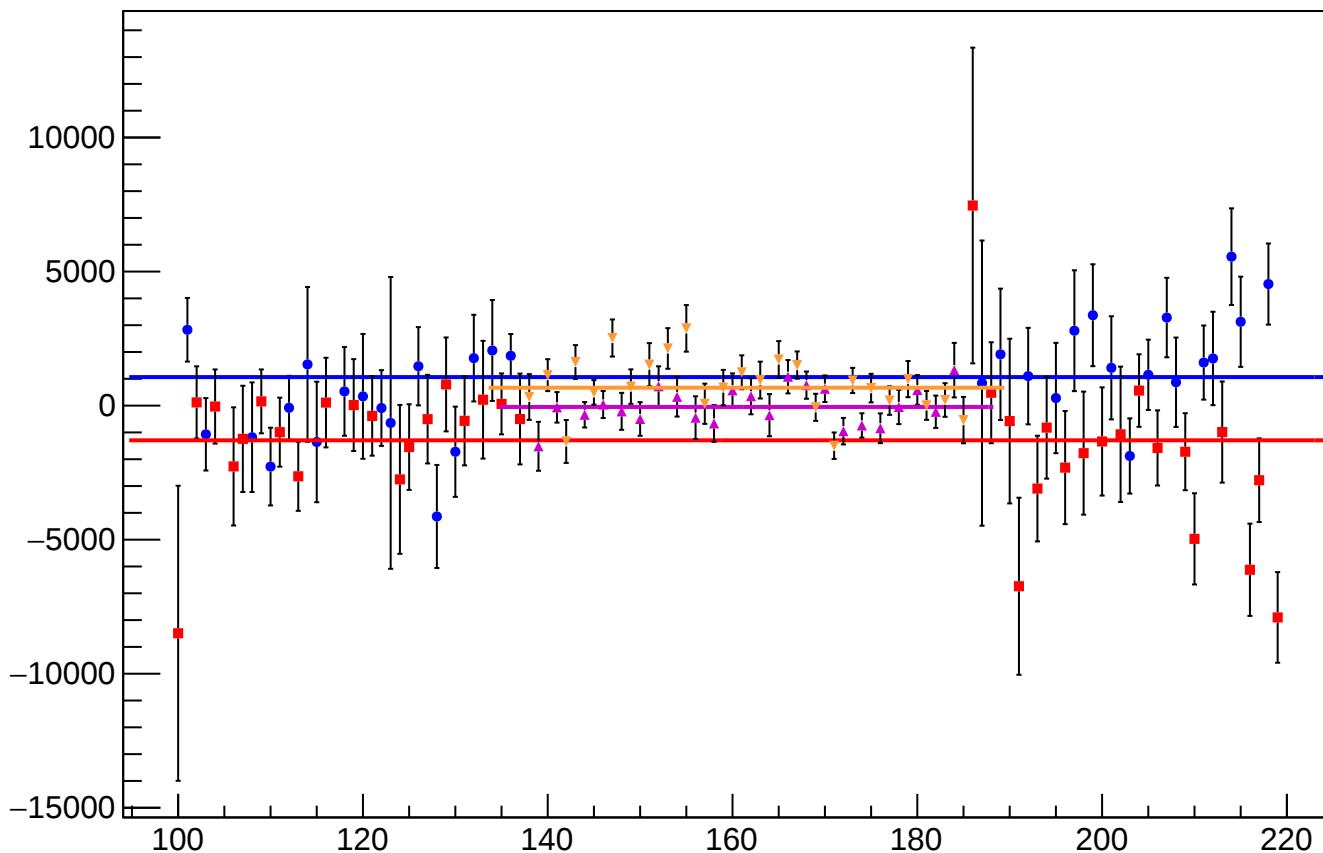
Right: 1161.543 $\pm$ 0.140 χ^2 /NDF: 5934773.2/69

In: 616.865 $\pm$ 0.081 χ^2 /NDF:12163493.9/55

Out: 621.284 $\pm$ 0.079 χ^2 /NDF:13983487.5/61

All: 619.113 $\pm$ 0.056 χ^2 /NDF: 26148512.8/111

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 1063.849 $\pm$ 280.500 χ^2 /NDF: 48.2/32

Left Out: 667.625 $\pm$ 123.146 χ^2 /NDF: 61.5/24

Right Out: -1294.397 $\pm$ 280.967 χ^2 /NDF: 50.2/36

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

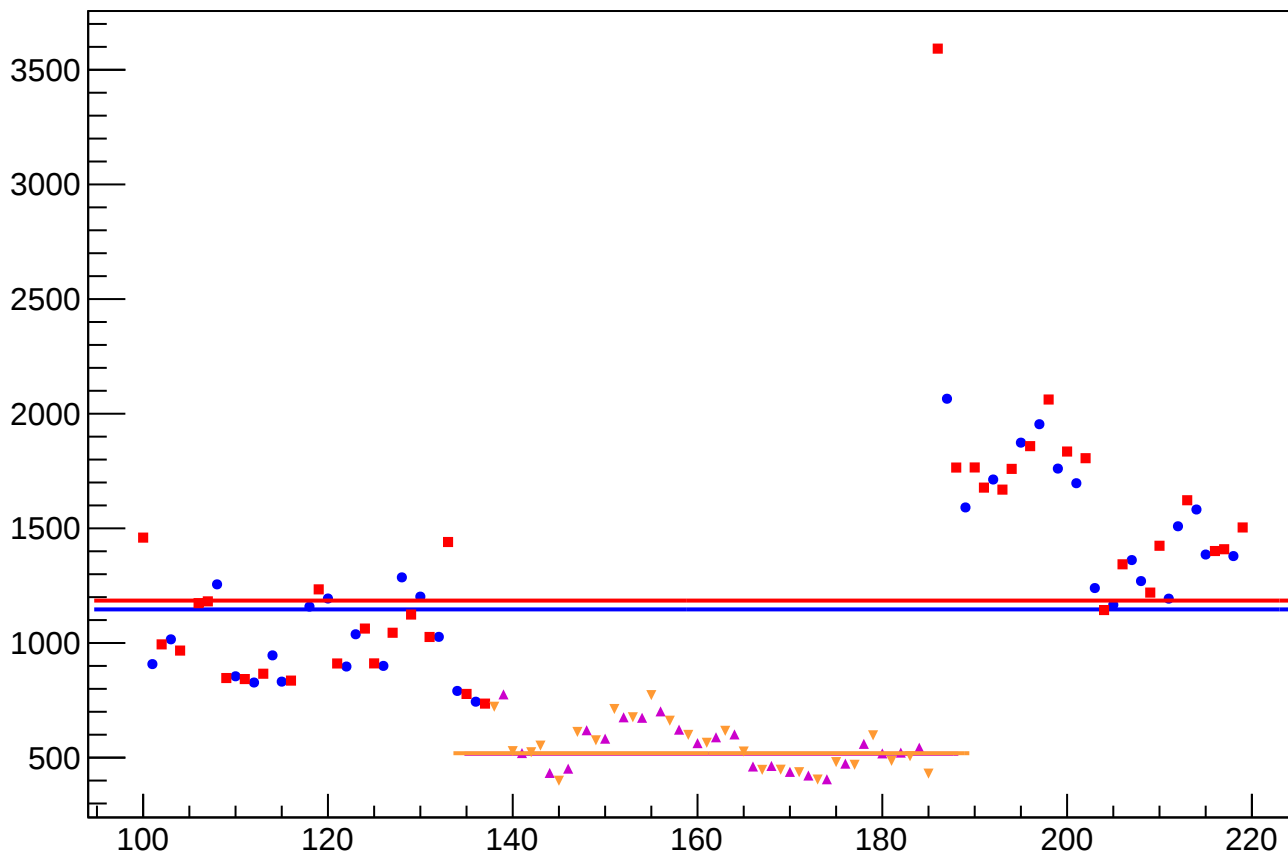
Right: -113.311 $\pm$ 198.509 χ^2 /NDF: 133.7/69

In: 136.468 $\pm$ 114.788 χ^2 /NDF: 87.4/55

Out: 351.457 $\pm$ 112.788 χ^2 /NDF: 152.6/61

All: 245.852 $\pm$ 80.451 χ^2 /NDF: 241.8/117

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 1146.478 $\pm$ 0.198 χ^2/NDF : 2647250.3/32

Left Out: 519.254 $\pm$ 0.087 χ^2/NDF : 1172411.1/24

Right Out: 1184.998 $\pm$ 0.199 χ^2/NDF : 3287153.1/36

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

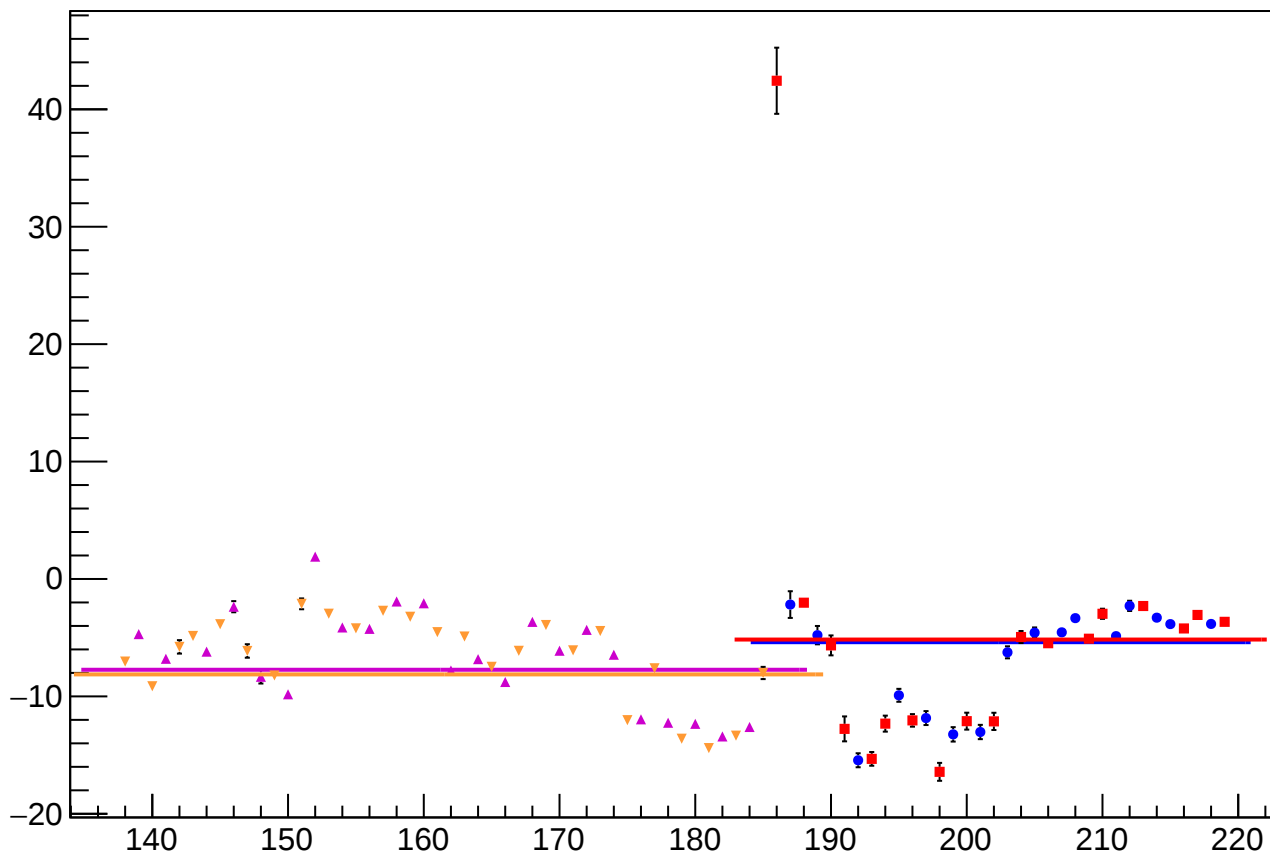
Right: 1165.706 $\pm$ 0.140 χ^2/NDF : 5953230.8/69

In: 622.244 $\pm$ 0.081 χ^2/NDF : 12059615.6/55

Out: 626.534 $\pm$ 0.080 χ^2/NDF : 13878898.2/61

All: 624.427 $\pm$ 0.057 χ^2/NDF : 25939935.4/11

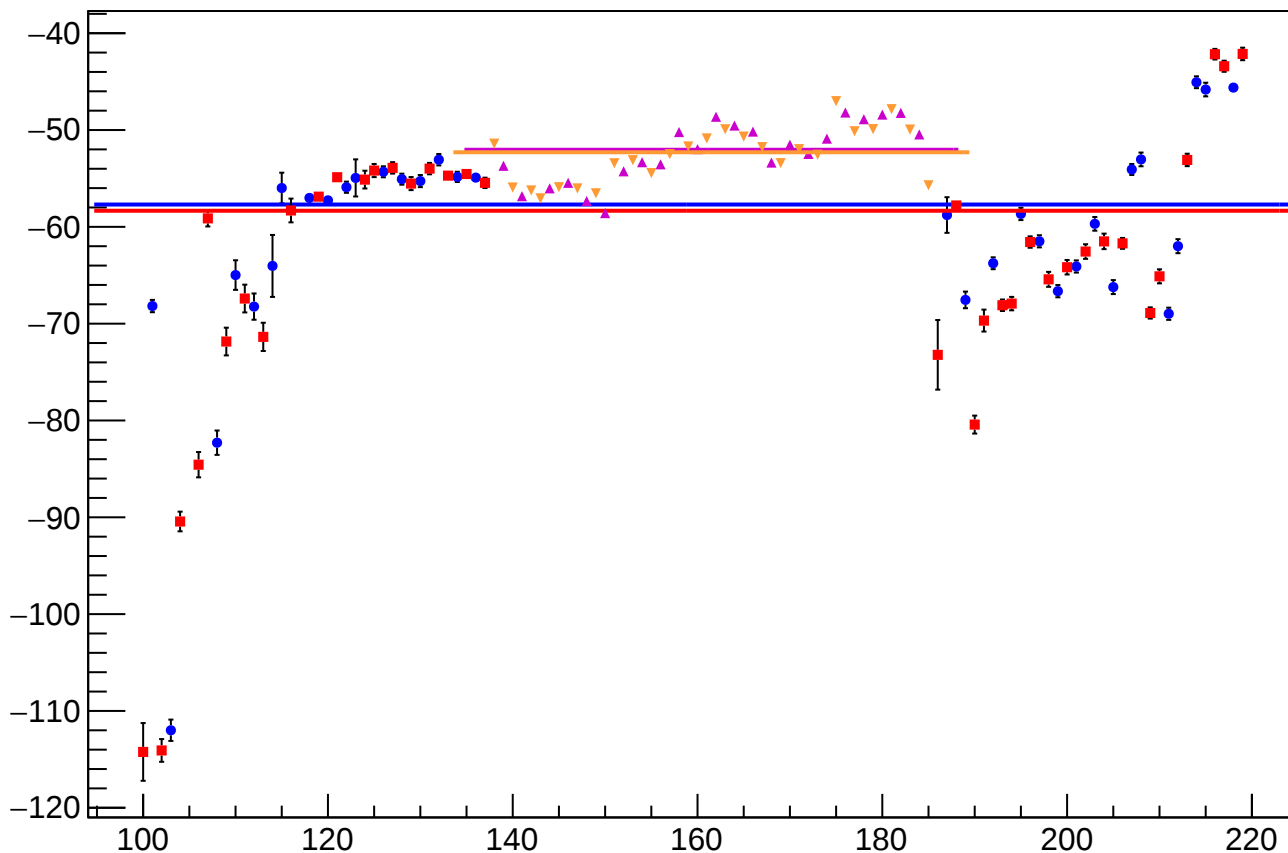
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -5.384 ± 0.107 χ^2/NDF : 995.9/15
 Left Out: -8.127 ± 0.067 χ^2/NDF : 3635.5/24
 Right Out: -5.159 ± 0.103 χ^2/NDF : 1595.2/17
 Left In: -7.732 ± 0.069 χ^2/NDF : 3719.0/22

Left: -7.934 ± 0.048 χ^2/NDF : 7371.4/47
 Right: -5.267 ± 0.074 χ^2/NDF : 2593.4/33
 In: -7.049 ± 0.058 χ^2/NDF : 5053.4/38
 Out: -7.238 ± 0.056 χ^2/NDF : 5811.7/42
 All: -7.146 ± 0.040 χ^2/NDF : 10870.6/81

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.695 $\pm$ 0.108 χ^2 /NDF: 5972.0/32

Left Out: -52.297 $\pm$ 0.055 χ^2 /NDF: 2657.5/24

Right Out: -58.337 $\pm$ 0.106 χ^2 /NDF: 8784.2/36

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

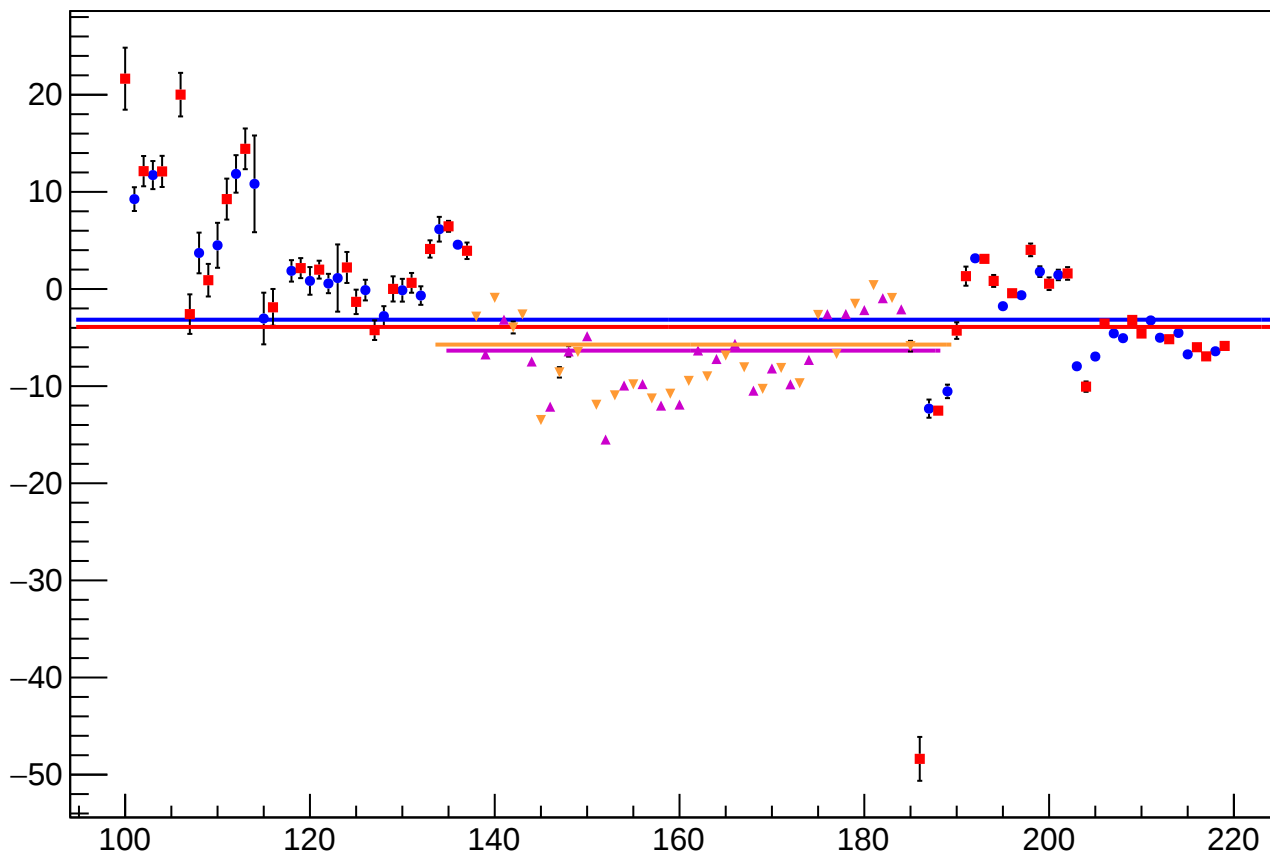
Right: -58.021 $\pm$ 0.076 χ^2 /NDF: 14774.2/69

In: -53.274 $\pm$ 0.051 χ^2 /NDF: 11293.7/55

Out: -53.575 $\pm$ 0.049 χ^2 /NDF: 13987.7/61

All: -53.430 $\pm$ 0.035 χ^2 /NDF: 25299.7/117

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -3.159 ± 0.100 $\chi^2/\text{NDF}: 1757.6/32$

Left Out: -5.722 ± 0.068 $\chi^2/\text{NDF}: 3983.0/24$

Right Out: -3.905 ± 0.096 $\chi^2/\text{NDF}: 3434.5/36$

Left In: -6.344 ± 0.069 $\chi^2/\text{NDF}: 3383.7/22$

Left: -6.028 ± 0.048 $\chi^2/\text{NDF}: 7408.5/47$

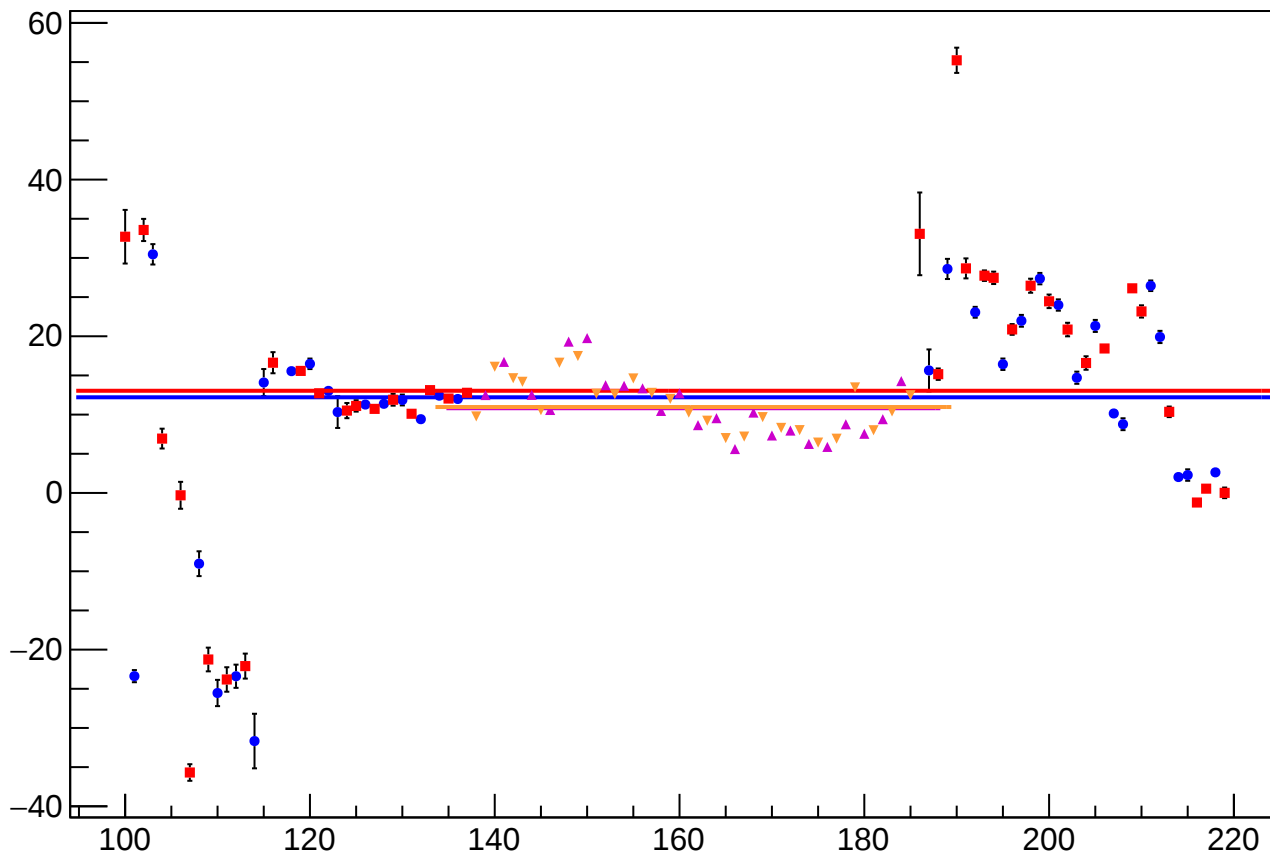
Right: -3.546 ± 0.069 $\chi^2/\text{NDF}: 5221.1/69$

In: -5.320 ± 0.057 $\chi^2/\text{NDF}: 5833.6/55$

Out: -5.121 ± 0.055 $\chi^2/\text{NDF}: 7656.6/61$

All: -5.218 ± 0.040 $\chi^2/\text{NDF}: 13496.5/117$

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.210 ± 0.119 χ^2/NDF : 6676.2/32

Left Out: 10.967 ± 0.061 χ^2/NDF : 2637.7/24

Right Out: 13.044 ± 0.119 χ^2/NDF : 8536.6/36

Left In: 10.813 ± 0.063 χ^2/NDF : 3546.8/22

Left: 10.892 ± 0.044 χ^2/NDF : 6187.5/47

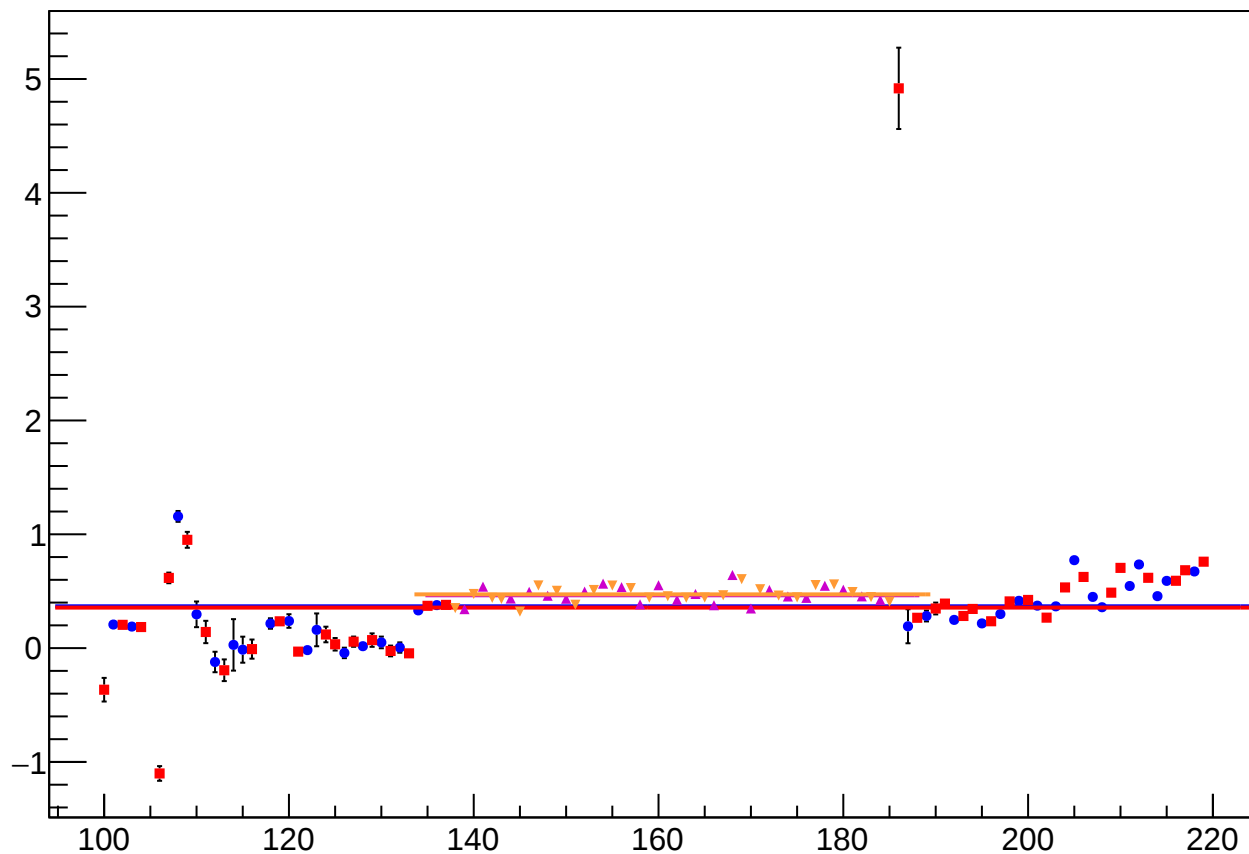
Right: 12.627 ± 0.084 χ^2/NDF : 15237.1/69

In: 11.118 ± 0.056 χ^2/NDF : 10329.8/55

Out: 11.402 ± 0.055 χ^2/NDF : 11414.0/61

All: 11.263 ± 0.039 χ^2/NDF : 21757.1/117

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.367 $\pm$ 0.005 χ^2 /NDF: 1249.3/32

Left Out: 0.472 $\pm$ 0.003 χ^2 /NDF: 519.0/24

Right Out: 0.356 $\pm$ 0.005 χ^2 /NDF: 1977.7/36

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

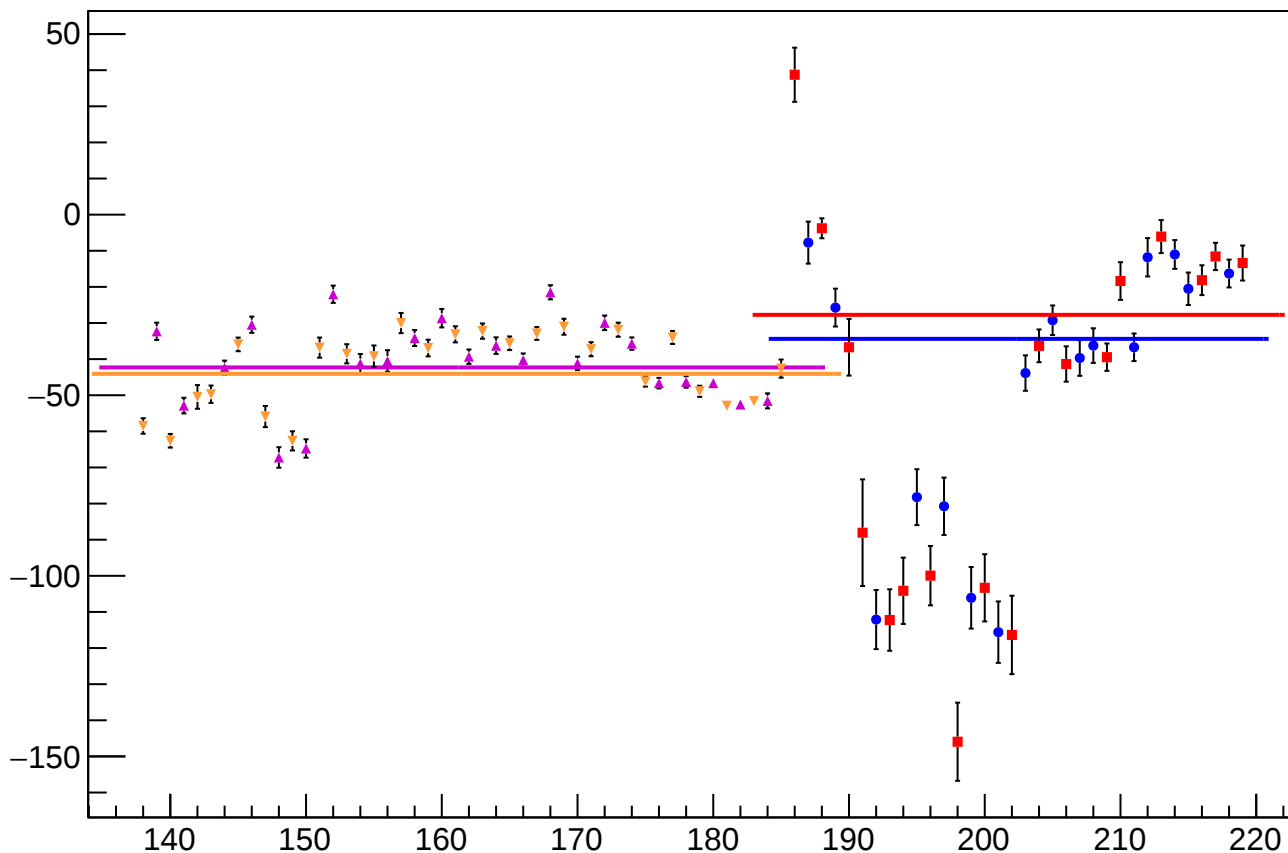
Right: 0.362 $\pm$ 0.004 χ^2 /NDF: 3229.3/69

In: 0.443 $\pm$ 0.002 χ^2 /NDF: 2243.3/55

Out: 0.448 $\pm$ 0.002 χ^2 /NDF: 2867.6/61

All: 0.446 $\pm$ 0.002 χ^2 /NDF: 5112.6/117

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -34.391 ± 1.280 χ^2/NDF : 433.0/15

Left Out: -44.077 ± 0.389 χ^2/NDF : 632.6/24

Right Out: -27.741 ± 1.236 χ^2/NDF : 747.9/17

Left In: -42.304 ± 0.399 χ^2/NDF : 640.6/22

Left: -43.214 ± 0.278 χ^2/NDF : 1283.3/47

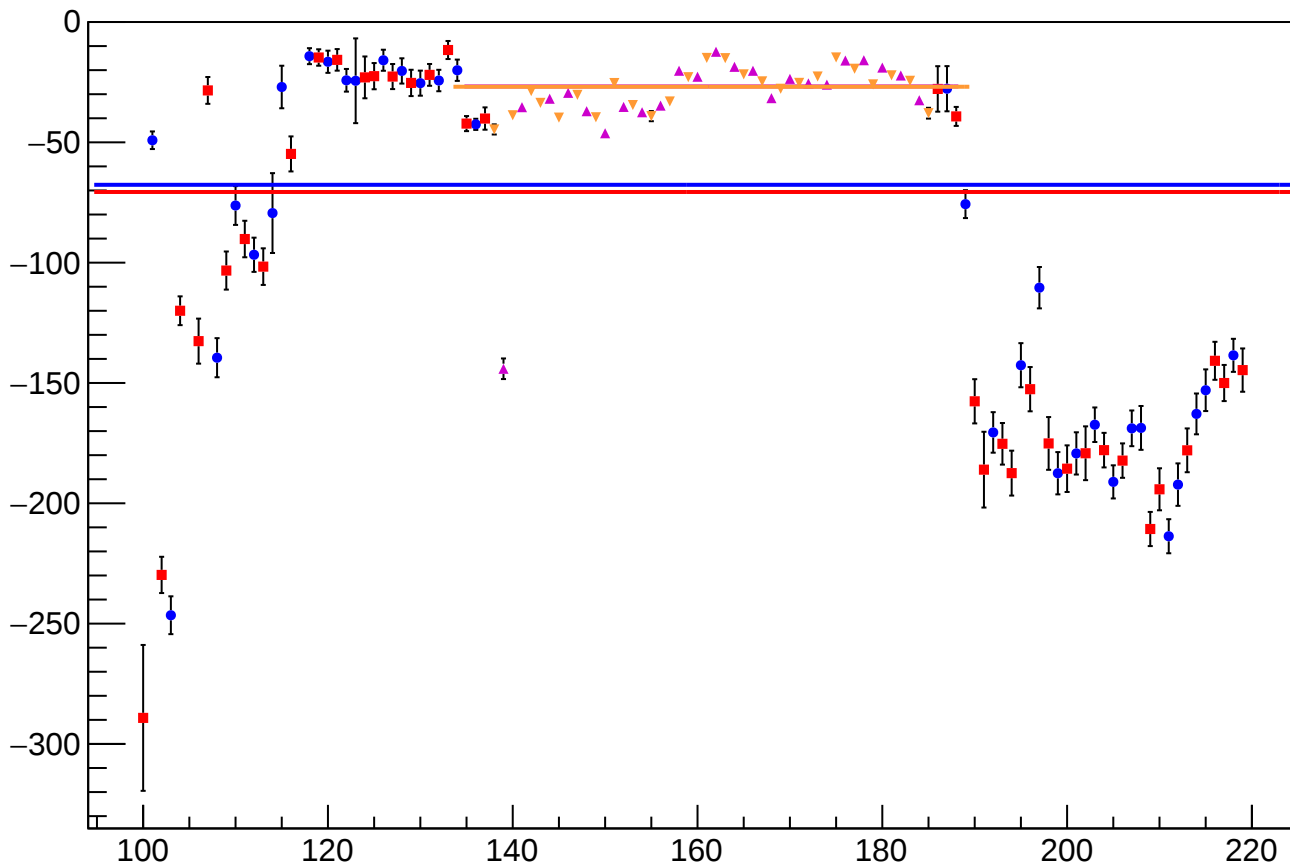
Right: -30.950 ± 0.889 χ^2/NDF : 1194.9/33

In: -41.602 ± 0.381 χ^2/NDF : 1108.5/38

Out: -42.608 ± 0.371 χ^2/NDF : 1539.4/42

All: -42.119 ± 0.266 χ^2/NDF : 2651.5/81

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -67.648 $\pm$ 0.992 χ^2 /NDF: 4136.5/32

Left Out: -26.902 $\pm$ 0.316 χ^2 /NDF:631.0/24

Right Out: -70.631 $\pm$ 1.017 χ^2 /NDF: 4269.7/36

Left In: -26.774 $\pm$ 0.326 χ^2 /NDF:1394.5/22

Left: -26.840 $\pm$ 0.227 χ^2 /NDF: 2025.6/47

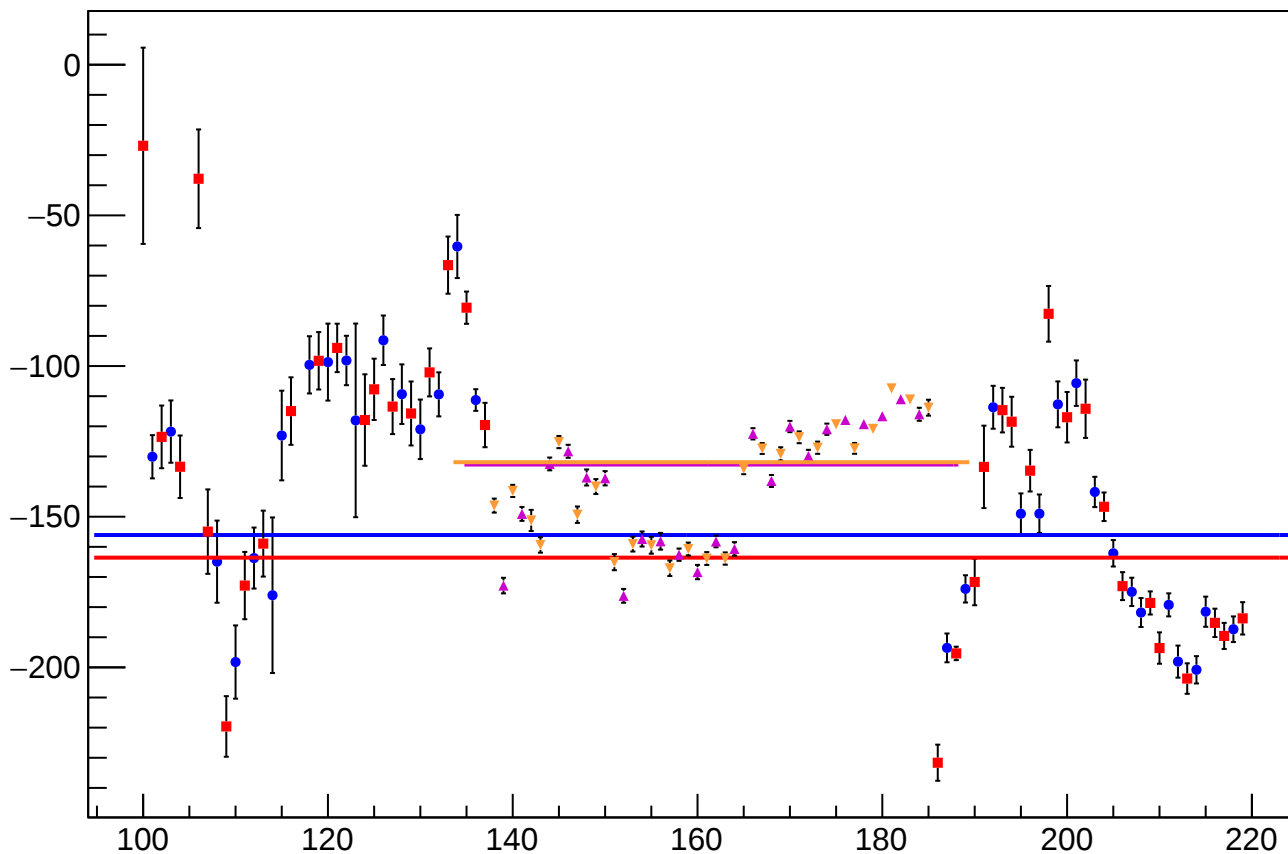
Right: -69.102 $\pm$ 0.710 χ^2 /NDF: 8410.6/69

In: -30.761 $\pm$ 0.310 χ^2 /NDF:7061.6/55

Out: -30.755 $\pm$ 0.302 χ^2 /NDF:6585.2/61

All: -30.758 $\pm$ 0.216 χ^2 /NDF: 13646.9/117

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -156.078 ± 1.084 $\chi^2/\text{NDF}: 1048.9/32$

Left Out: -131.912 ± 0.391 $\chi^2/\text{NDF}: 2439.3/24$

Right Out: -163.583 ± 1.046 $\chi^2/\text{NDF}: 1565.5/36$

Left In: -132.690 ± 0.399 $\chi^2/\text{NDF}: 2480.2/22$

Left: -132.293 ± 0.280 $\chi^2/\text{NDF}: 4921.5/47$

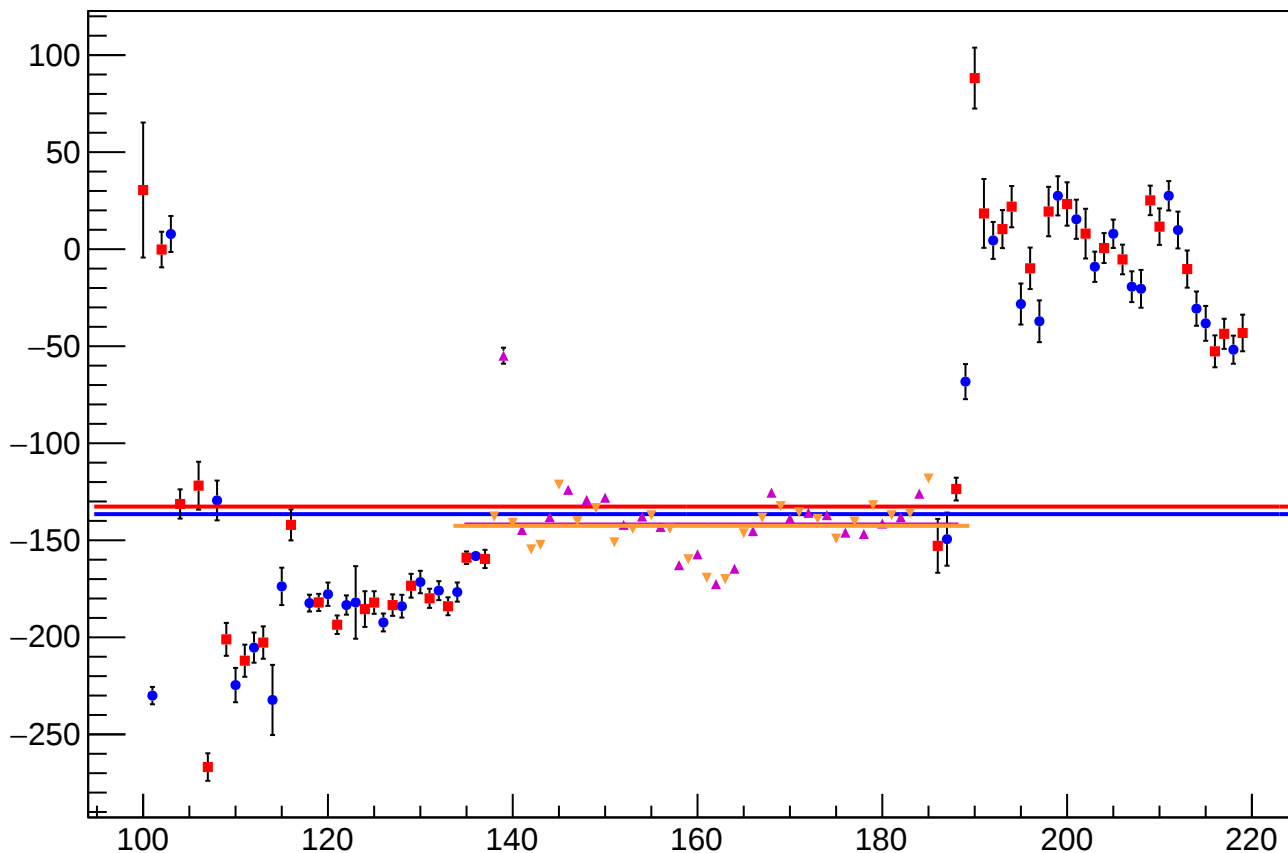
Right: -159.963 ± 0.753 $\chi^2/\text{NDF}: 2639.2/69$

In: -135.487 ± 0.375 $\chi^2/\text{NDF}: 3939.1/55$

Out: -135.802 ± 0.367 $\chi^2/\text{NDF}: 4808.8/61$

All: -135.648 ± 0.262 $\chi^2/\text{NDF}: 8748.3/117$

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -136.524 ± 1.110 χ^2/NDF : 4703.5/32

Left Out: -142.564 ± 0.354 χ^2/NDF : 1147.7/24

Right Out: -132.635 ± 1.156 χ^2/NDF : 4667.6/36

Left In: -141.856 ± 0.364 χ^2/NDF : 1544.3/22

Left: -142.220 ± 0.254 χ^2/NDF : 2693.9/47

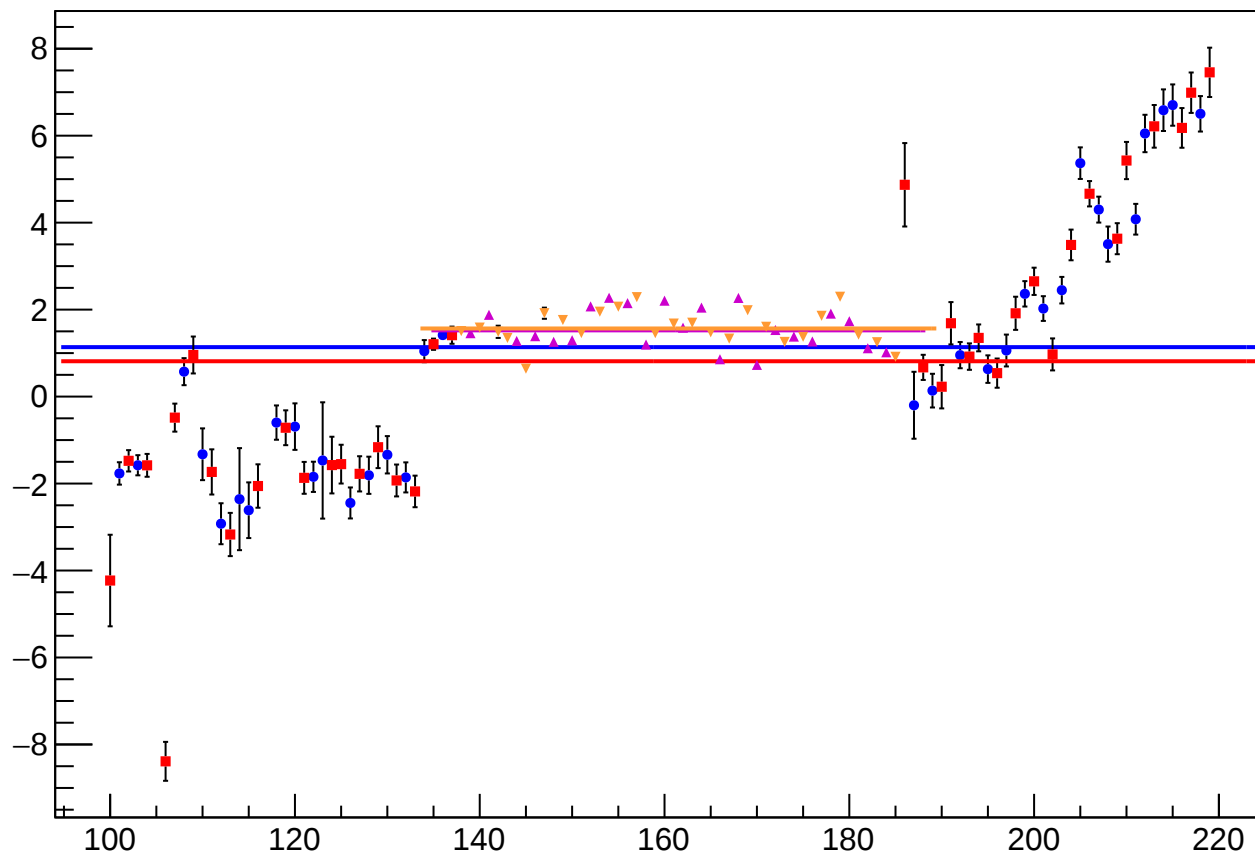
Right: -134.659 ± 0.801 χ^2/NDF : 9377.0/69

In: -141.339 ± 0.346 χ^2/NDF : 6268.6/55

Out: -141.713 ± 0.339 χ^2/NDF : 5882.7/61

All: -141.530 ± 0.242 χ^2/NDF : 12151.9/117

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 1.137 ± 0.054 $\chi^2/\text{NDF}: 1757.0/32$

Left Out: 1.566 ± 0.016 $\chi^2/\text{NDF}: 542.8/24$

Right Out: 0.813 ± 0.056 $\chi^2/\text{NDF}: 2116.2/36$

Left In: 1.523 ± 0.017 $\chi^2/\text{NDF}: 738.5/22$

Left: 1.545 ± 0.012 $\chi^2/\text{NDF}: 1284.8/47$

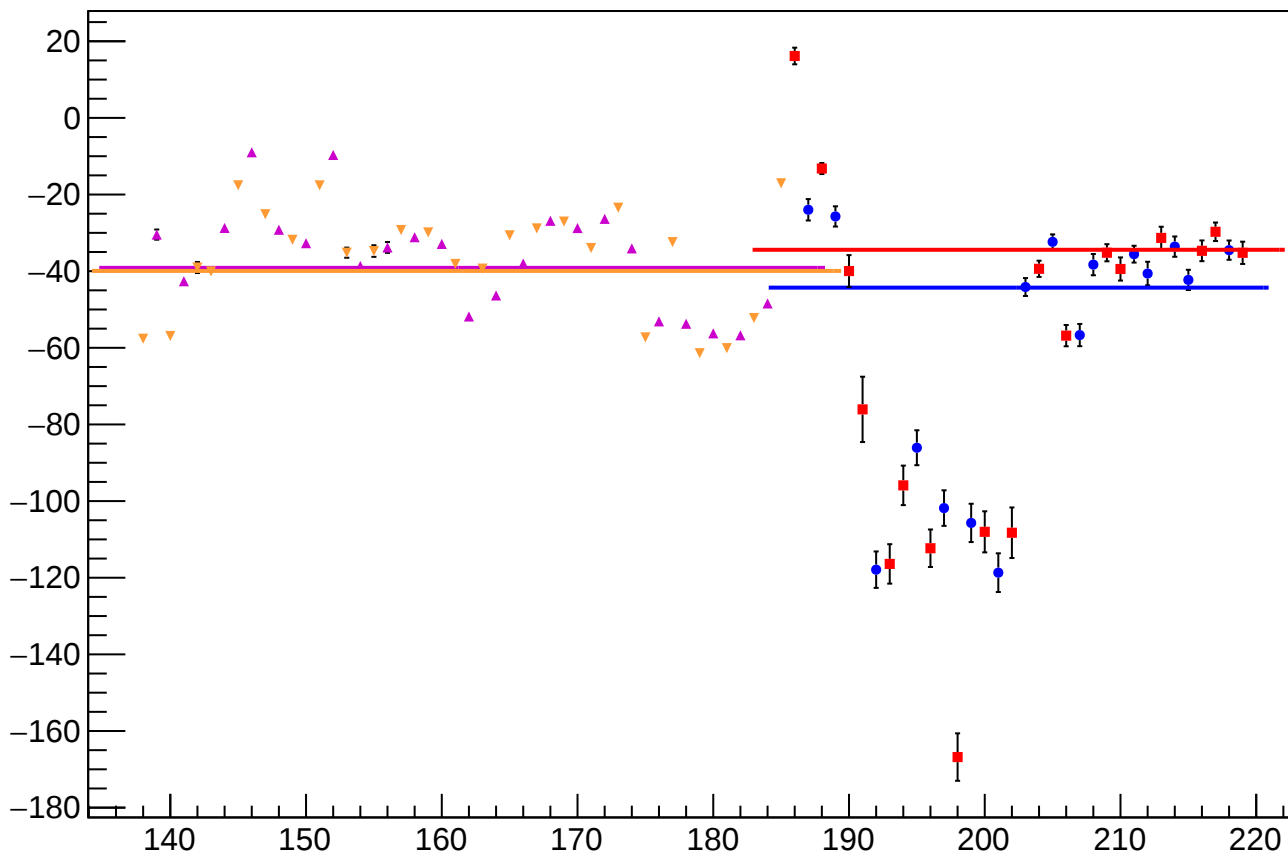
Right: 0.981 ± 0.039 $\chi^2/\text{NDF}: 3890.8/69$

In: 1.490 ± 0.016 $\chi^2/\text{NDF}: 2542.6/55$

Out: 1.508 ± 0.016 $\chi^2/\text{NDF}: 2827.6/61$

All: 1.499 ± 0.011 $\chi^2/\text{NDF}: 5370.8/117$

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -44.296 ± 0.717 $\chi^2/\text{NDF}: 1057.4/15$

Left Out: -39.935 ± 0.153 $\chi^2/\text{NDF}: 9806.5/24$

Right Out: -34.417 ± 0.678 $\chi^2/\text{NDF}: 2283.5/17$

Left In: -39.137 ± 0.155 $\chi^2/\text{NDF}: 8534.5/22$

Left: -39.540 ± 0.109 $\chi^2/\text{NDF}: 18354.5/47$

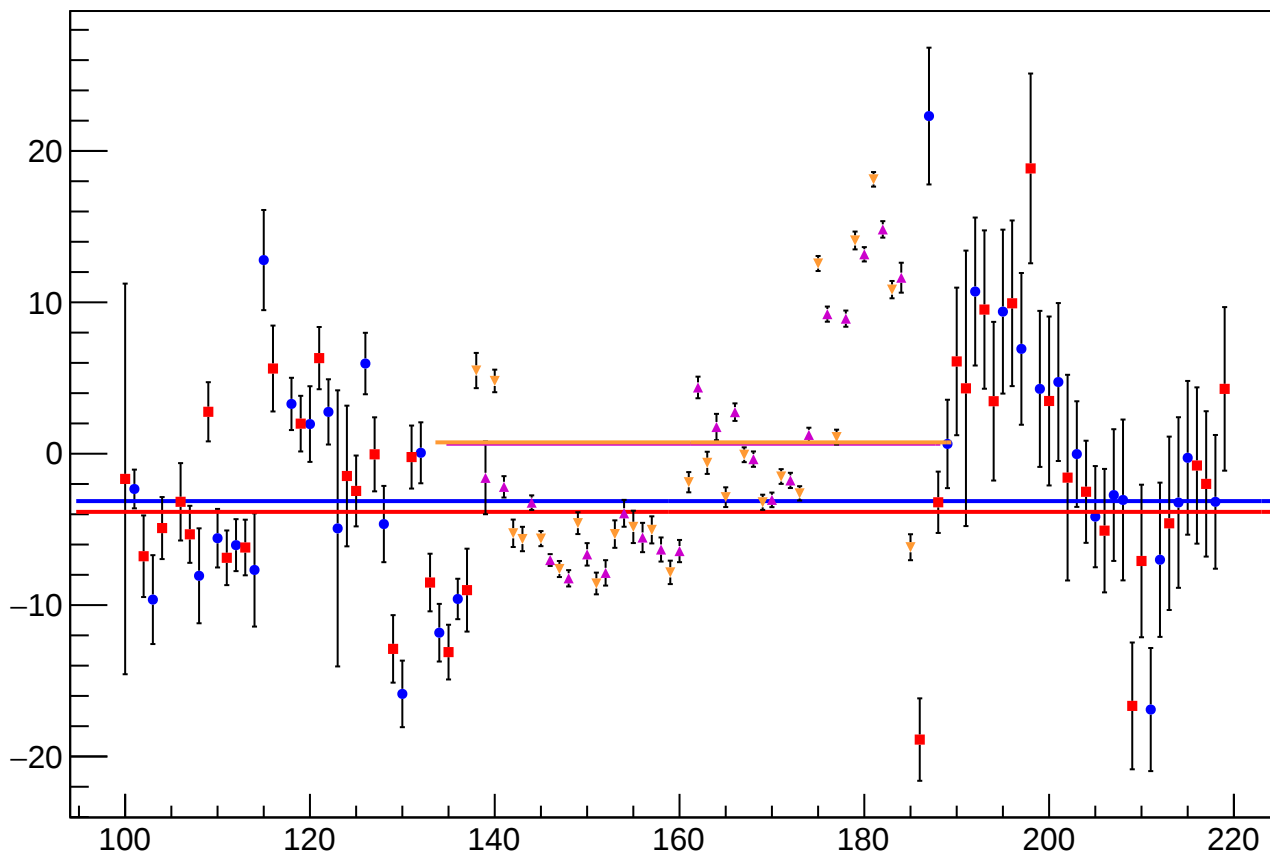
Right: -39.079 ± 0.493 $\chi^2/\text{NDF}: 3441.1/33$

In: -39.366 ± 0.151 $\chi^2/\text{NDF}: 9641.3/38$

Out: -39.667 ± 0.149 $\chi^2/\text{NDF}: 12153.0/42$

All: -39.518 ± 0.106 $\chi^2/\text{NDF}: 21796.3/81$

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.130 ± 0.454 χ^2/NDF : 231.5/32

Left Out: 0.749 ± 0.124 χ^2/NDF : 3970.9/24

Right Out: -3.842 ± 0.452 χ^2/NDF : 200.2/36

Left In: 0.660 ± 0.124 χ^2/NDF : 3337.8/22

Left: 0.705 ± 0.088 χ^2/NDF : 7308.9/47

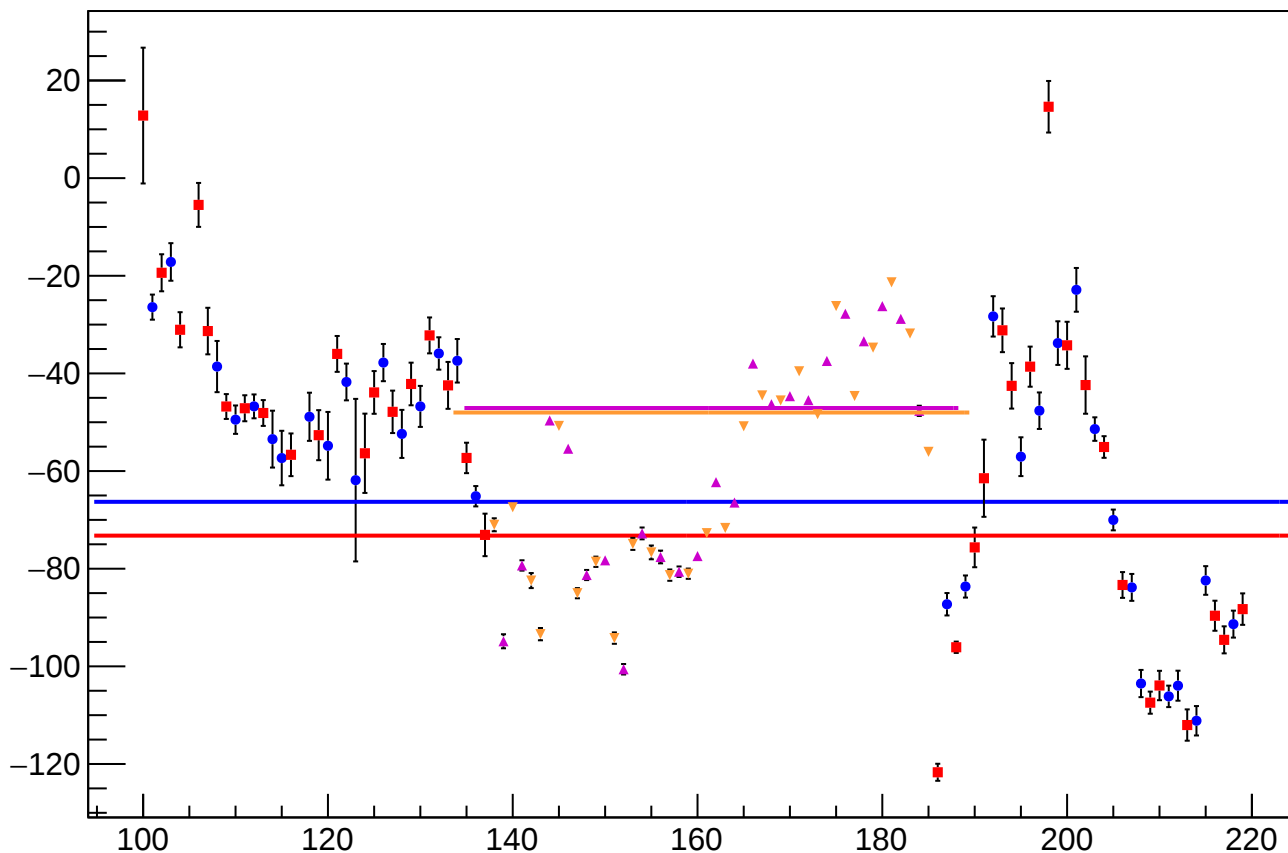
Right: -3.488 ± 0.320 χ^2/NDF : 433.0/69

In: 0.396 ± 0.120 χ^2/NDF : 3634.1/55

Out: 0.427 ± 0.120 χ^2/NDF : 4266.9/61

All: 0.411 ± 0.085 χ^2/NDF : 7901.1/117

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.300 ± 0.552 χ^2/NDF : 2283.1/32

Left Out: -48.008 ± 0.155 χ^2/NDF : 16950.0/24

Right Out: -73.224 ± 0.514 χ^2/NDF : 3839.0/36

Left In: -47.085 ± 0.155 χ^2/NDF : 15515.2/22

Left: -47.548 ± 0.110 χ^2/NDF : 32482.9/47

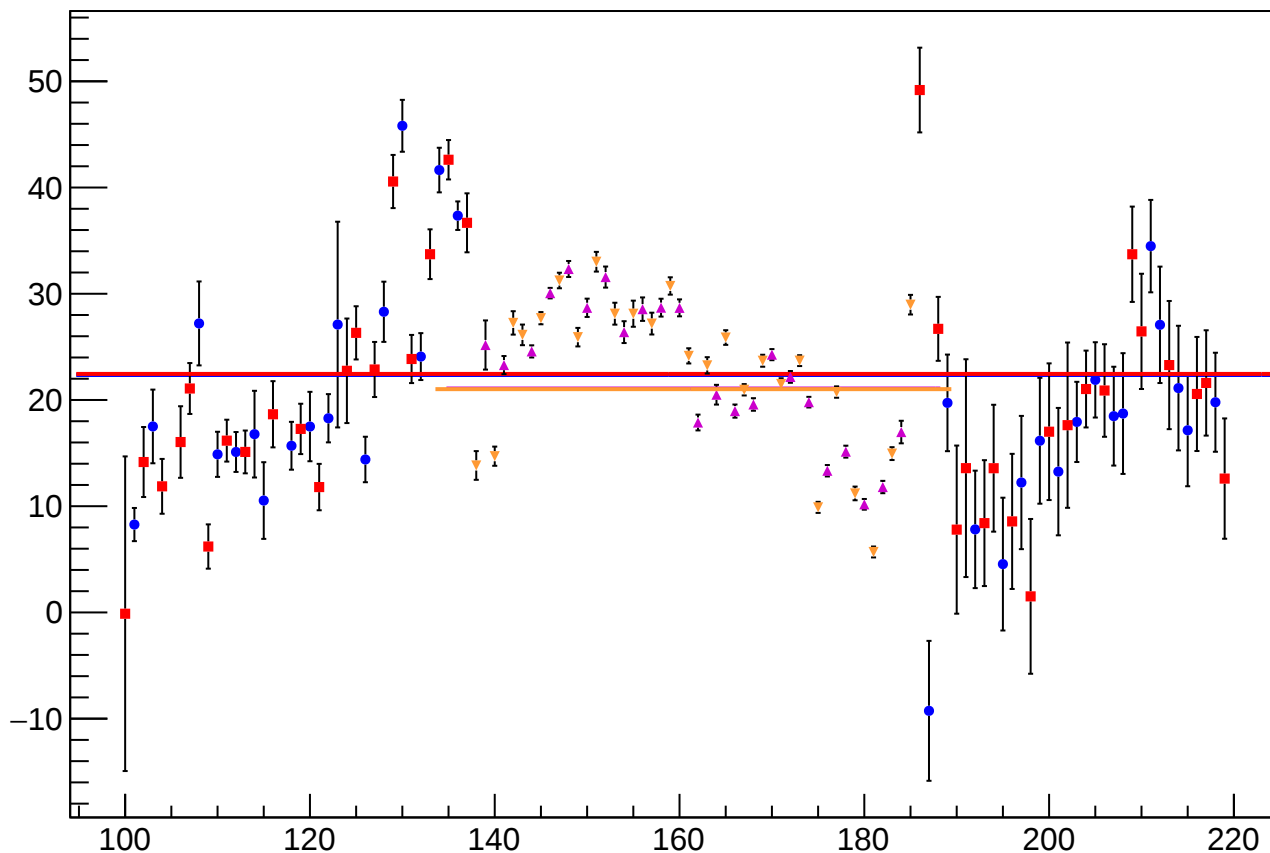
Right: -70.011 ± 0.376 χ^2/NDF : 6206.4/69

In: -48.494 ± 0.150 χ^2/NDF : 18920.4/55

Out: -50.103 ± 0.148 χ^2/NDF : 22997.2/61

All: -49.306 ± 0.105 χ^2/NDF : 41976.0/117

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.353 $\pm$ 0.511 χ^2 /NDF: 515.9/32

Left Out: 21.020 $\pm$ 0.139 χ^2 /NDF:2799.3/24

Right Out: 22.453 $\pm$ 0.518 χ^2 /NDF: 449.7/36

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

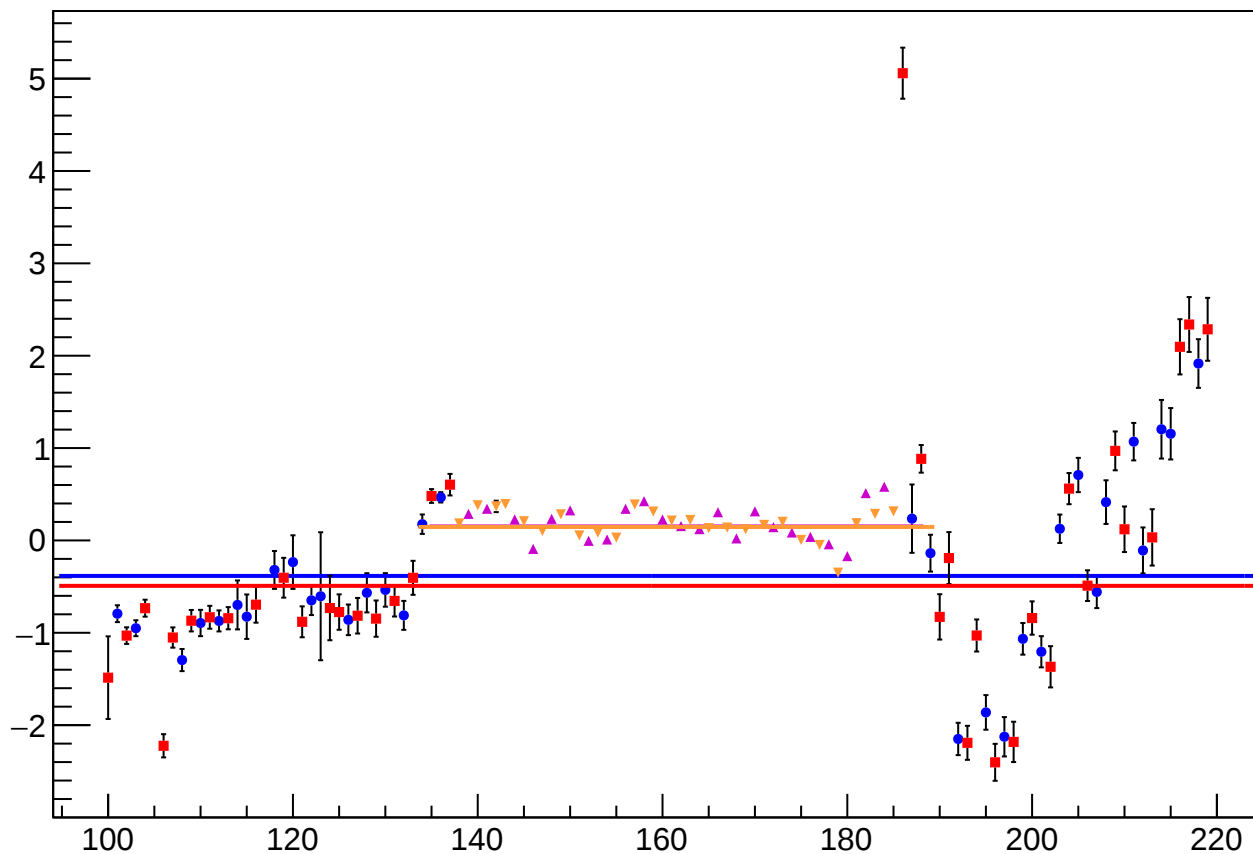
Right: 22.402 $\pm$ 0.364 χ^2 /NDF: 965.6/69

In: 21.167 $\pm$ 0.135 χ^2 /NDF:2694.9/55

Out: 21.116 $\pm$ 0.134 χ^2 /NDF:3256.1/61

All: 21.141 $\pm$ 0.095 χ^2 /NDF: 5951.1/117

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.384 ± 0.026 $\chi^2/\text{NDF}: 954.9/32$

Left Out: 0.146 ± 0.006 $\chi^2/\text{NDF}: 610.2/24$

Right Out: -0.492 ± 0.026 $\chi^2/\text{NDF}: 1649.7/36$

Left In: 0.151 ± 0.006 $\chi^2/\text{NDF}: 869.5/22$

Left: 0.149 ± 0.005 $\chi^2/\text{NDF}: 1480.1/47$

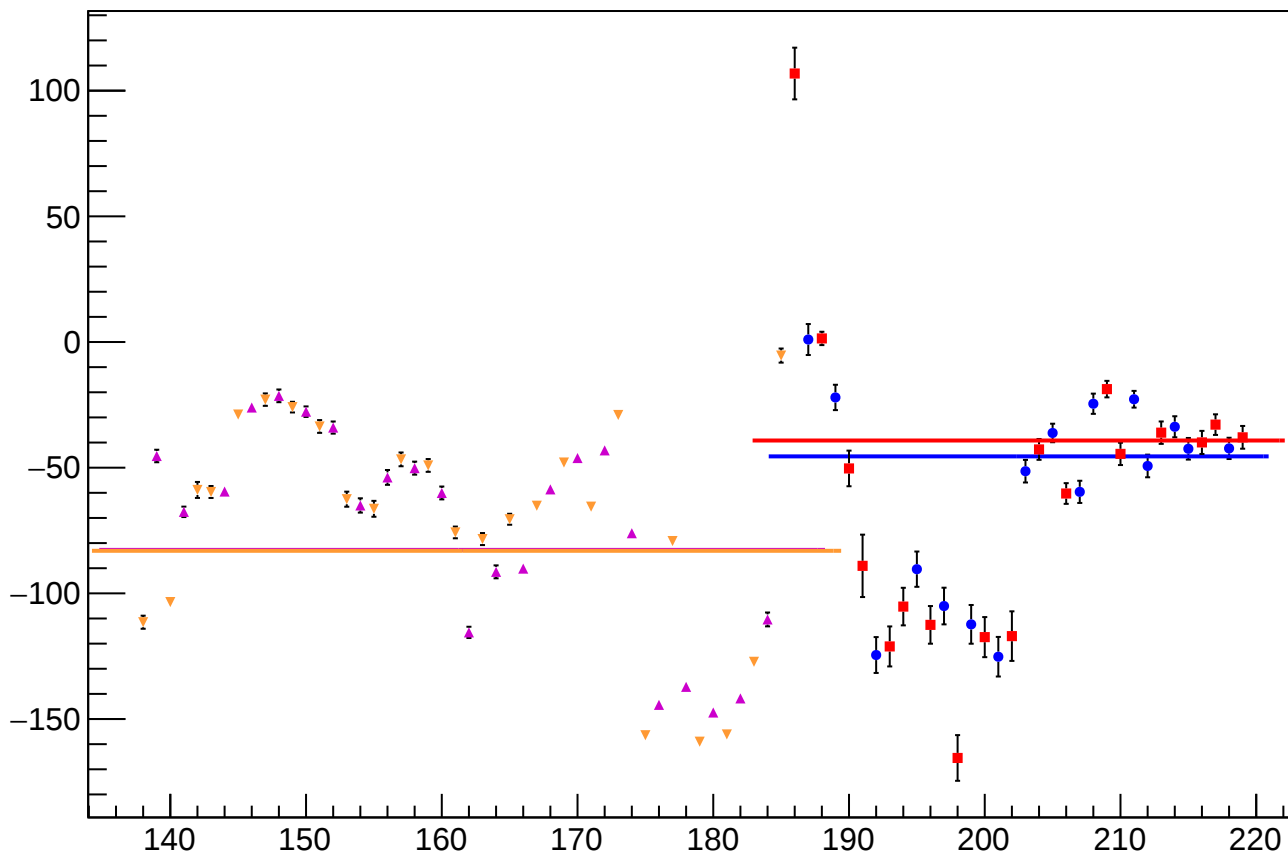
Right: -0.438 ± 0.018 $\chi^2/\text{NDF}: 2613.1/69$

In: 0.120 ± 0.006 $\chi^2/\text{NDF}: 2225.8/55$

Out: 0.110 ± 0.006 $\chi^2/\text{NDF}: 2832.8/61$

All: 0.115 ± 0.004 $\chi^2/\text{NDF}: 5059.9/117$

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected

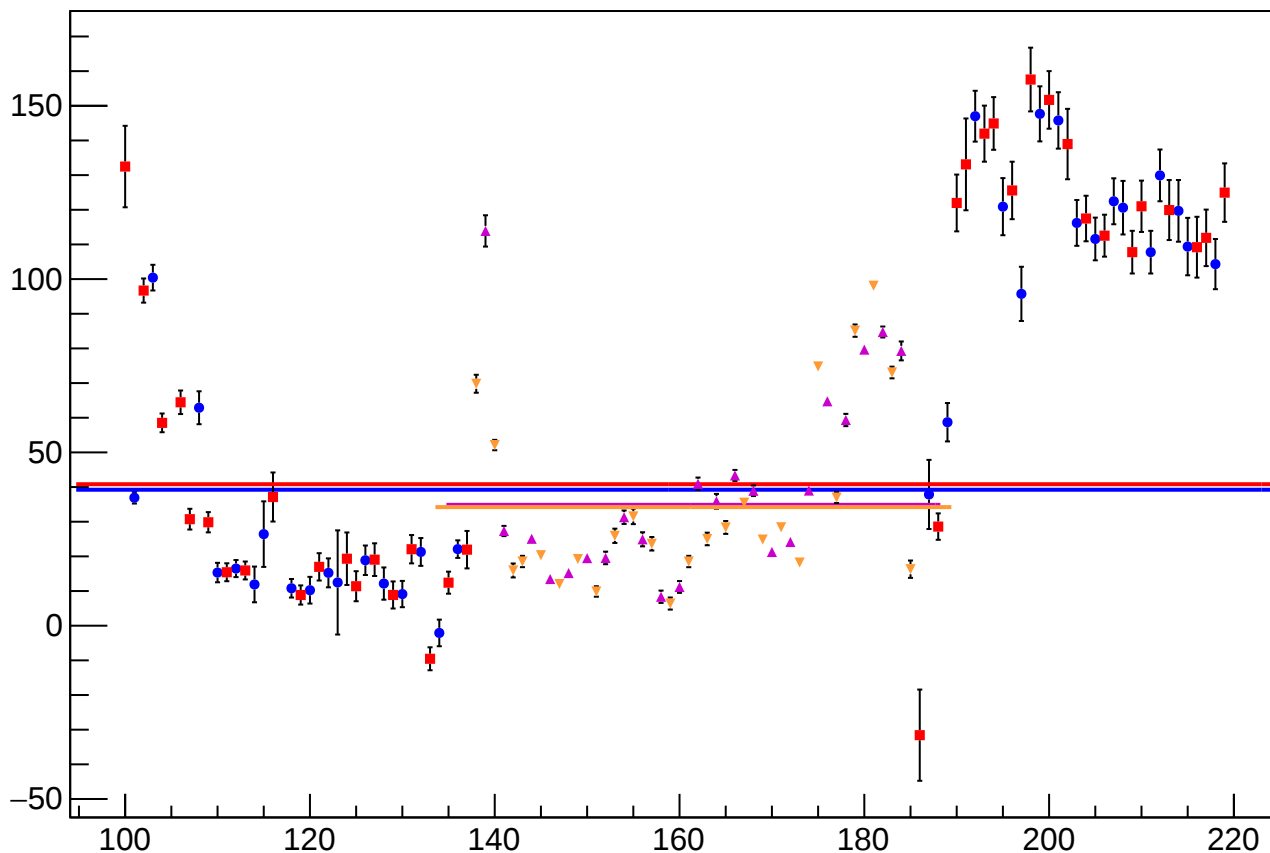


Right In: -45.501 ± 1.195 $\chi^2/\text{NDF}: 588.3/15$
 Left Out: -83.068 ± 0.406 $\chi^2/\text{NDF}: 13817.3/24$
 Right Out: -39.186 ± 1.167 $\chi^2/\text{NDF}: 1156.5/17$
 Left In: -82.711 ± 0.415 $\chi^2/\text{NDF}: 10841.4/22$

Left: -82.893 ± 0.290 $\chi^2/\text{NDF}: 24659.1/47$
 Right: -42.269 ± 0.835 $\chi^2/\text{NDF}: 1759.0/33$
 In: -78.703 ± 0.392 $\chi^2/\text{NDF}: 12295.0/38$
 Out: -78.323 ± 0.384 $\chi^2/\text{NDF}: 16234.8/42$

All: -78.509 ± 0.274 $\chi^2/\text{NDF}: 28530.2/81$

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 39.228+/-0.738 χ^2/NDF : 2778.7/32

Left Out: 34.219+/-0.320 χ^2/NDF : 6192.6/24

Right Out: 40.819+/-0.735 χ^2/NDF : 3181.4/36

Left In: 34.870+/-0.329 χ^2/NDF : 4716.1/22

Left: 34.535+/-0.230 χ^2/NDF : 10910.7/47

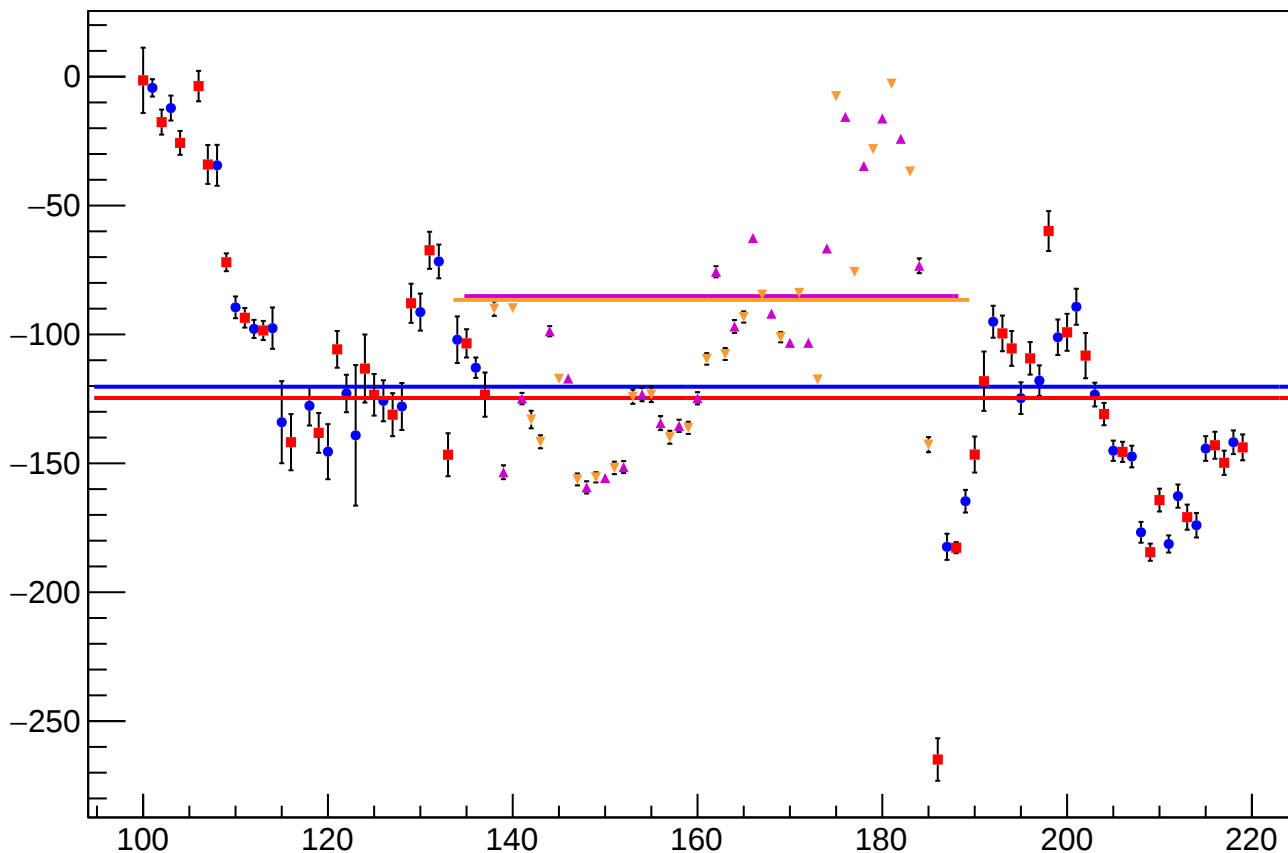
Right: 40.026+/-0.521 χ^2/NDF : 5962.4/69

In: 35.593+/-0.301 χ^2/NDF : 7524.0/55

Out: 35.271+/-0.294 χ^2/NDF : 9441.7/61

All: 35.428+/-0.210 χ^2/NDF : 16966.3/117

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -120.283 ± 0.907 χ^2/NDF : 3164.6/32

Left Out: -86.595 ± 0.408 χ^2/NDF : 14515.7/24

Right Out: -124.658 ± 0.862 χ^2/NDF : 3798.6/36

Left In: -85.134 ± 0.415 χ^2/NDF : 12841.3/22

Left: -85.876 ± 0.291 χ^2/NDF : 27363.3/47

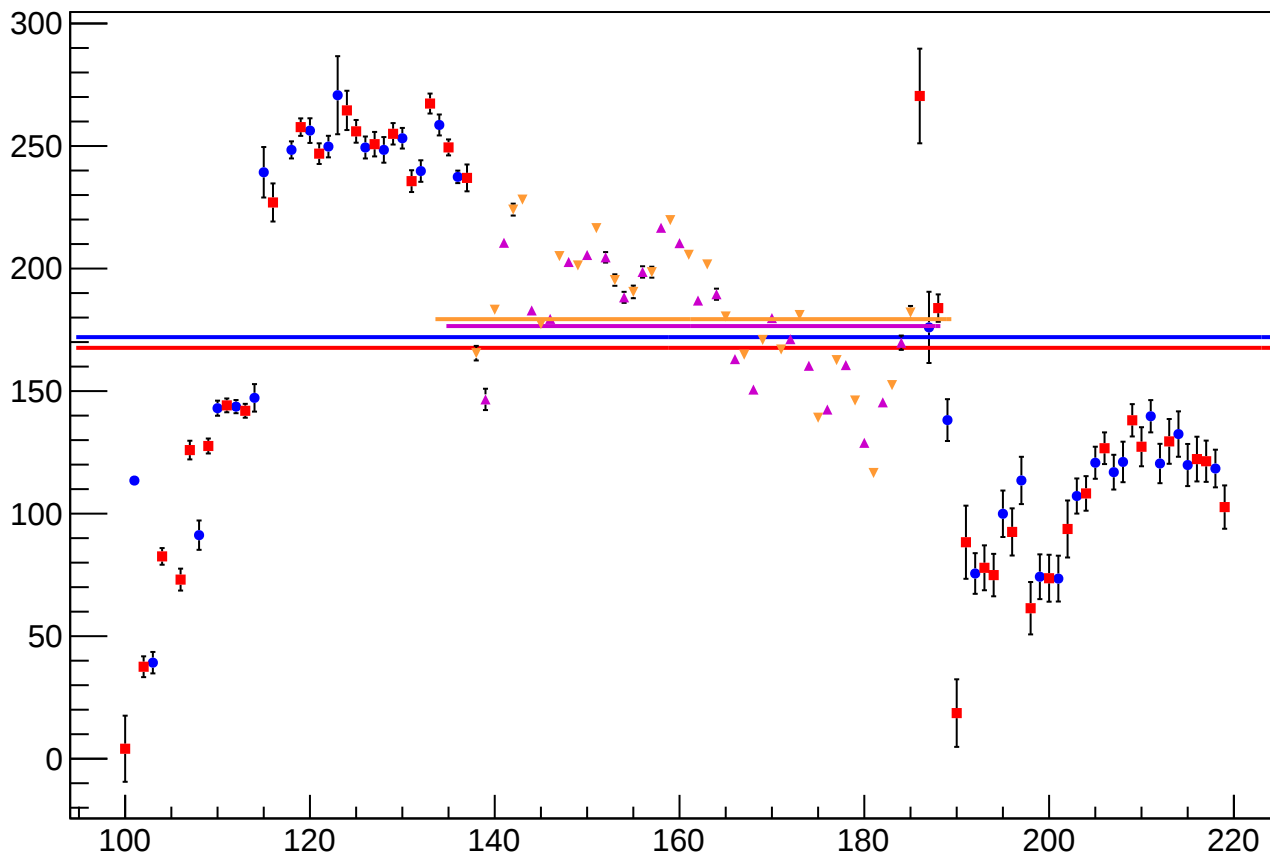
Right: -122.583 ± 0.625 χ^2/NDF : 6975.4/69

In: -91.214 ± 0.377 χ^2/NDF : 17246.7/55

Out: -93.575 ± 0.369 χ^2/NDF : 19906.8/61

All: -92.421 ± 0.264 χ^2/NDF : 37173.5/117

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 172.019 $\pm$ 0.840 χ^2 /NDF: 6354.1/32

Left Out: 179.359 $\pm$ 0.362 χ^2 /NDF: 5982.2/24

Right Out: 167.650 $\pm$ 0.842 χ^2 /NDF: 7430.8/36

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

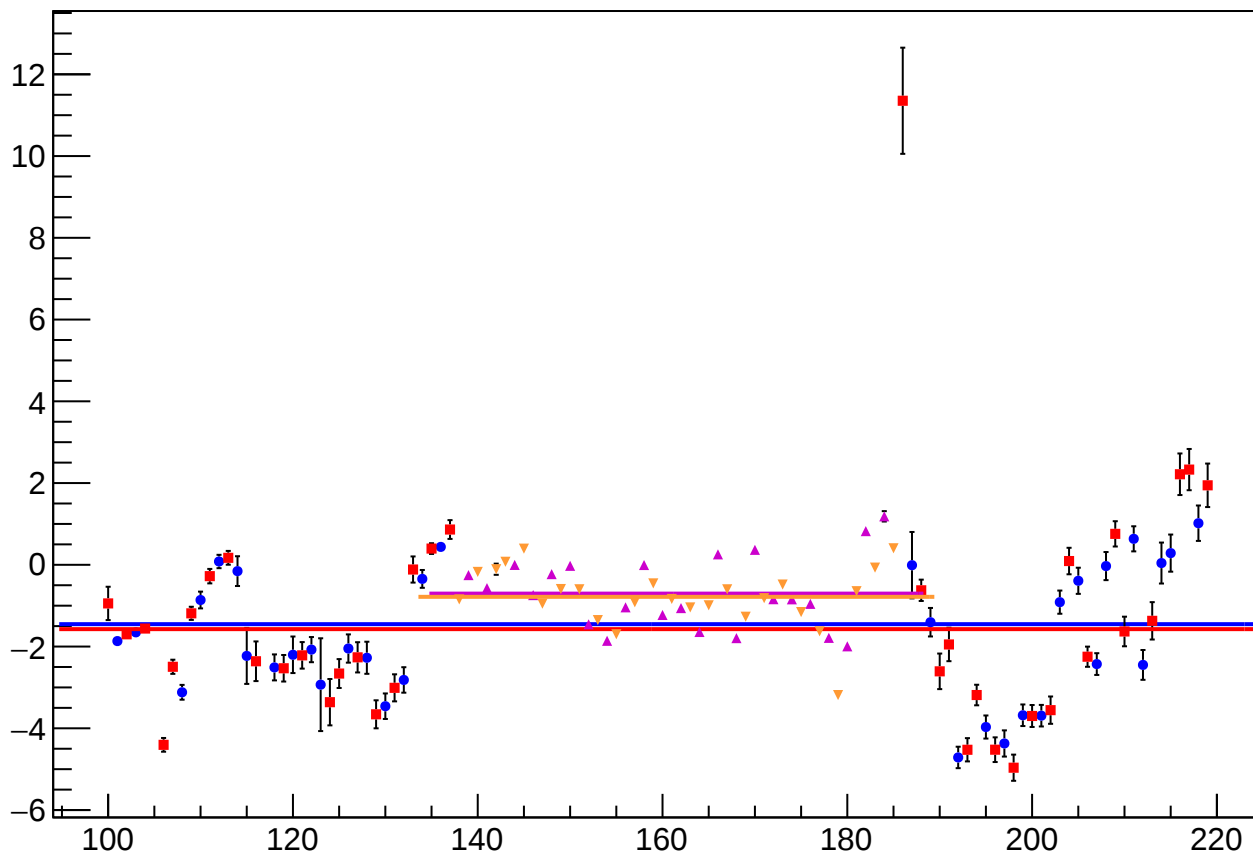
Right: 169.840 $\pm$ 0.595 χ^2 /NDF: 13798.4/69

In: 175.795 $\pm$ 0.339 χ^2 /NDF: 10804.3/55

Out: 177.534 $\pm$ 0.332 χ^2 /NDF: 13576.2/61

All: 176.682 $\pm$ 0.237 χ^2 /NDF: 24393.8/117

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.452 ± 0.041 χ^2/NDF : 1267.3/32

Left Out: -0.783 ± 0.017 χ^2/NDF : 1771.6/24

Right Out: -1.574 ± 0.040 χ^2/NDF : 1758.5/36

Left In: -0.705 ± 0.017 χ^2/NDF : 2407.7/22

Left: -0.745 ± 0.012 χ^2/NDF : 4190.3/47

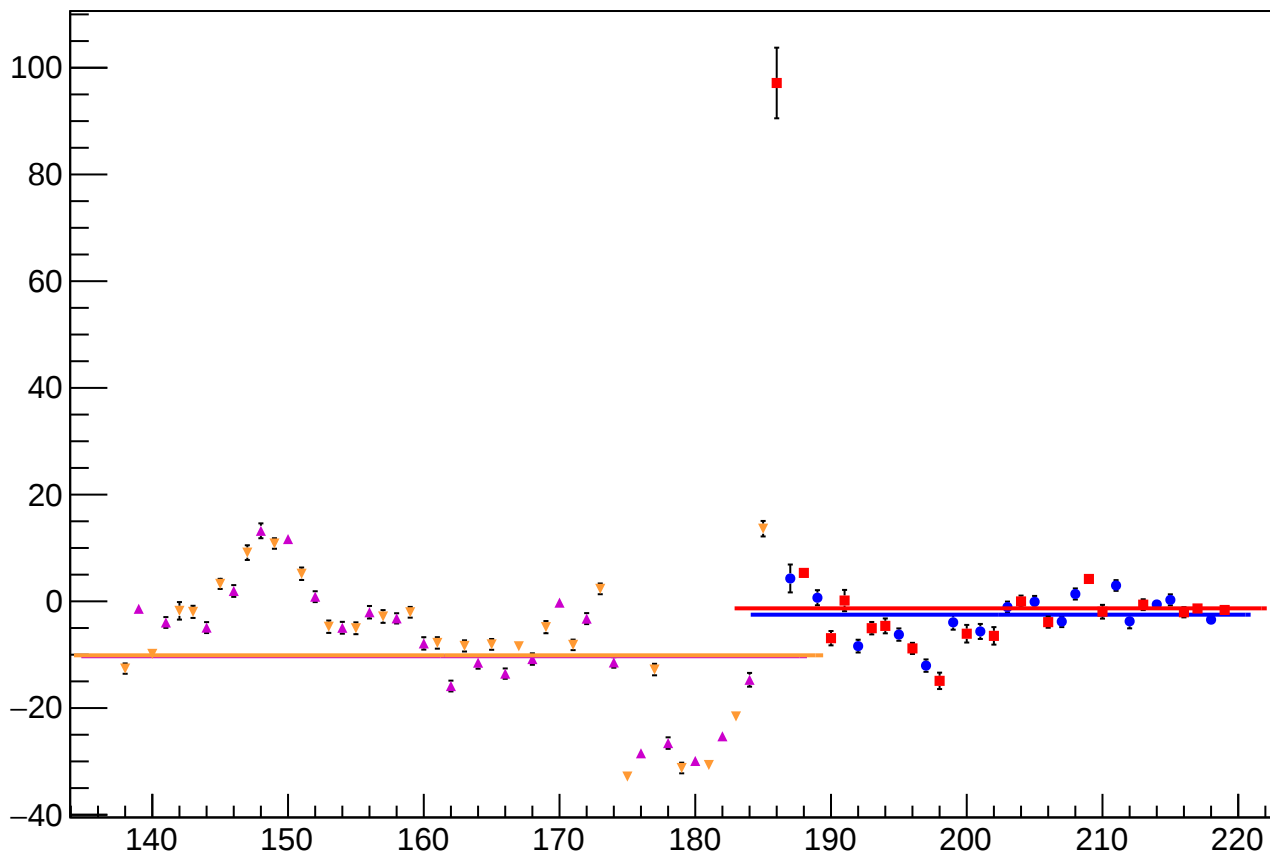
Right: -1.516 ± 0.029 χ^2/NDF : 3030.3/69

In: -0.812 ± 0.016 χ^2/NDF : 3953.9/55

Out: -0.901 ± 0.015 χ^2/NDF : 3867.3/61

All: -0.857 ± 0.011 χ^2/NDF : 7837.9/117

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.502 ± 0.283 χ^2/NDF : 185.0/15

Left Out: -10.117 ± 0.201 χ^2/NDF : 4138.1/24

Right Out: -1.315 ± 0.261 χ^2/NDF : 559.3/17

Left In: -10.290 ± 0.205 χ^2/NDF : 3451.0/22

Left: -10.202 ± 0.144 χ^2/NDF : 7589.5/47

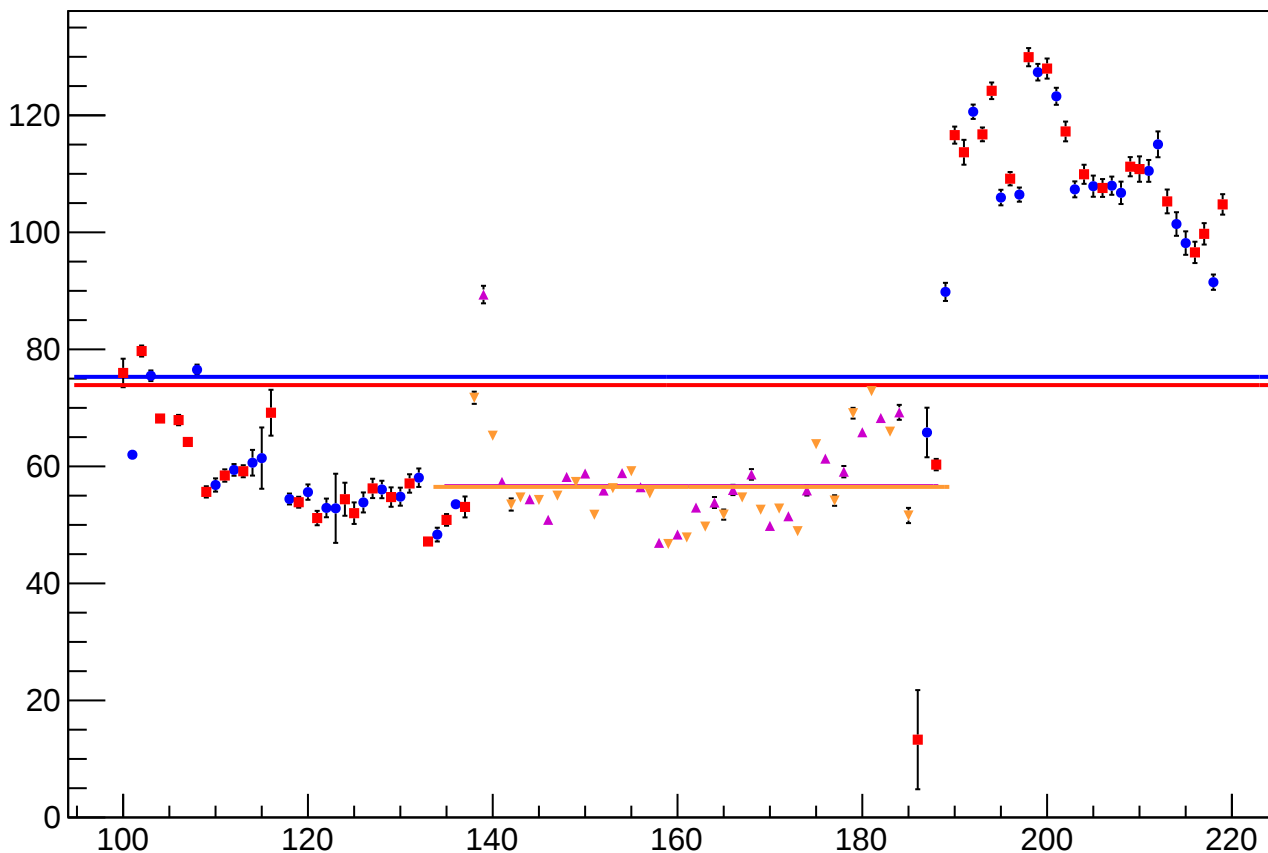
Right: -1.862 ± 0.192 χ^2/NDF : 753.8/33

In: -7.598 ± 0.166 χ^2/NDF : 4132.8/38

Out: -6.833 ± 0.159 χ^2/NDF : 5410.0/42

All: -7.200 ± 0.115 χ^2/NDF : 9553.9/81

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 75.302 $\pm$ 0.219 χ^2 /NDF: 11829.5/32

Left Out: 56.496 $\pm$ 0.159 χ^2 /NDF:1968.0/24

Right Out: 73.893 $\pm$ 0.206 χ^2 /NDF: 15347.5/36

Left In: 56.635 $\pm$ 0.165 χ^2 /NDF:1607.9/22

Left: 56.563 $\pm$ 0.114 χ^2 /NDF: 3576.3/47

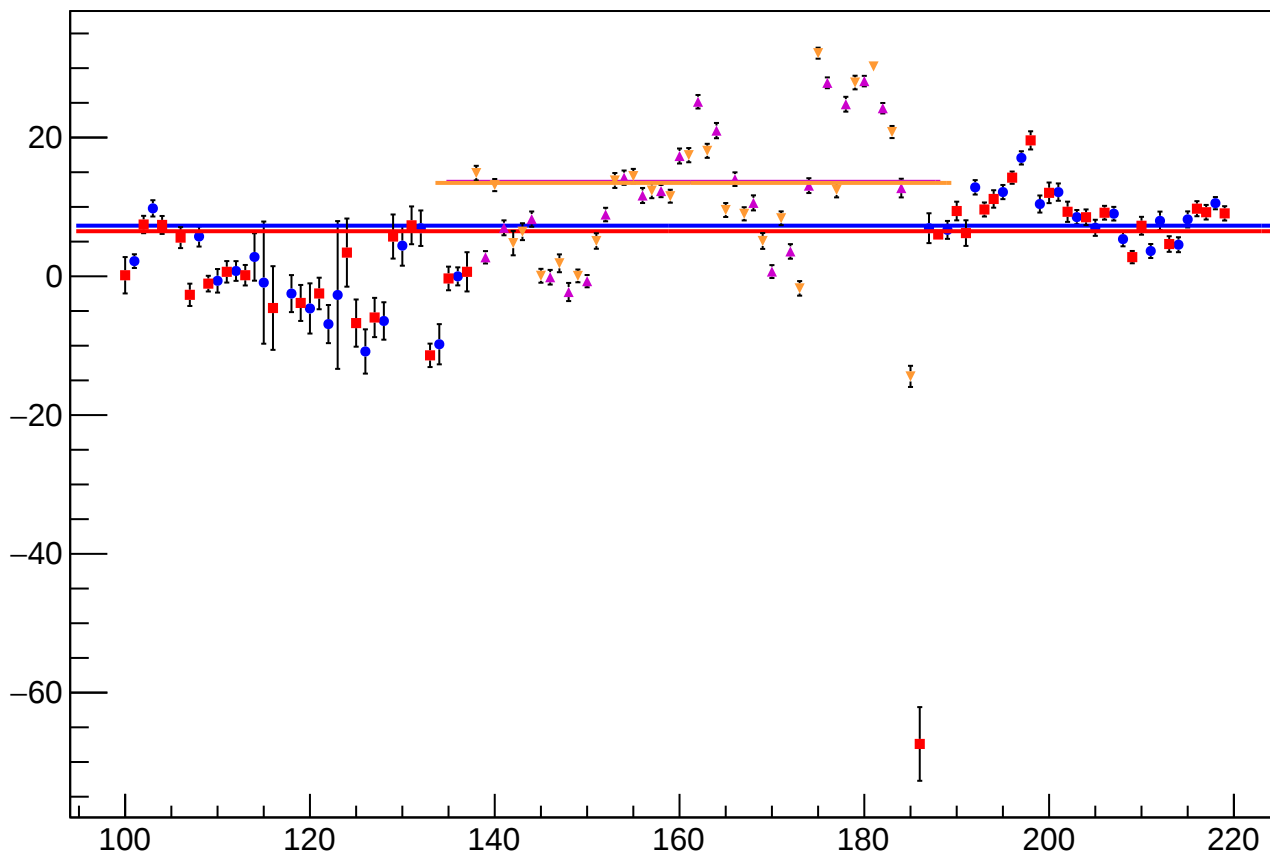
Right: 74.553 $\pm$ 0.150 χ^2 /NDF: 27199.0/69

In: 63.406 $\pm$ 0.132 χ^2 /NDF:18072.7/55

Out: 63.002 $\pm$ 0.126 χ^2 /NDF:21799.7/61

All: 63.194 $\pm$ 0.091 χ^2 /NDF: 39877.3/117

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.299 ± 0.236 χ^2/NDF : 474.0/32

Left Out: 13.462 ± 0.202 χ^2/NDF : 2736.3/24

Right Out: 6.498 ± 0.215 χ^2/NDF : 788.7/36

Left In: 13.620 ± 0.204 χ^2/NDF : 2315.4/22

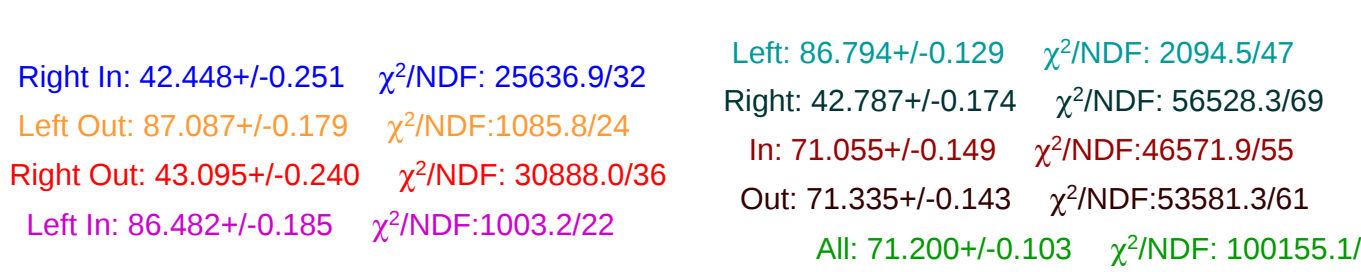
Left: 13.540 ± 0.144 χ^2/NDF : 5052.0/47

Right: 6.860 ± 0.159 χ^2/NDF : 1269.0/69

In: 10.913 ± 0.155 χ^2/NDF : 3198.7/55

Out: 10.203 ± 0.147 χ^2/NDF : 4084.1/61

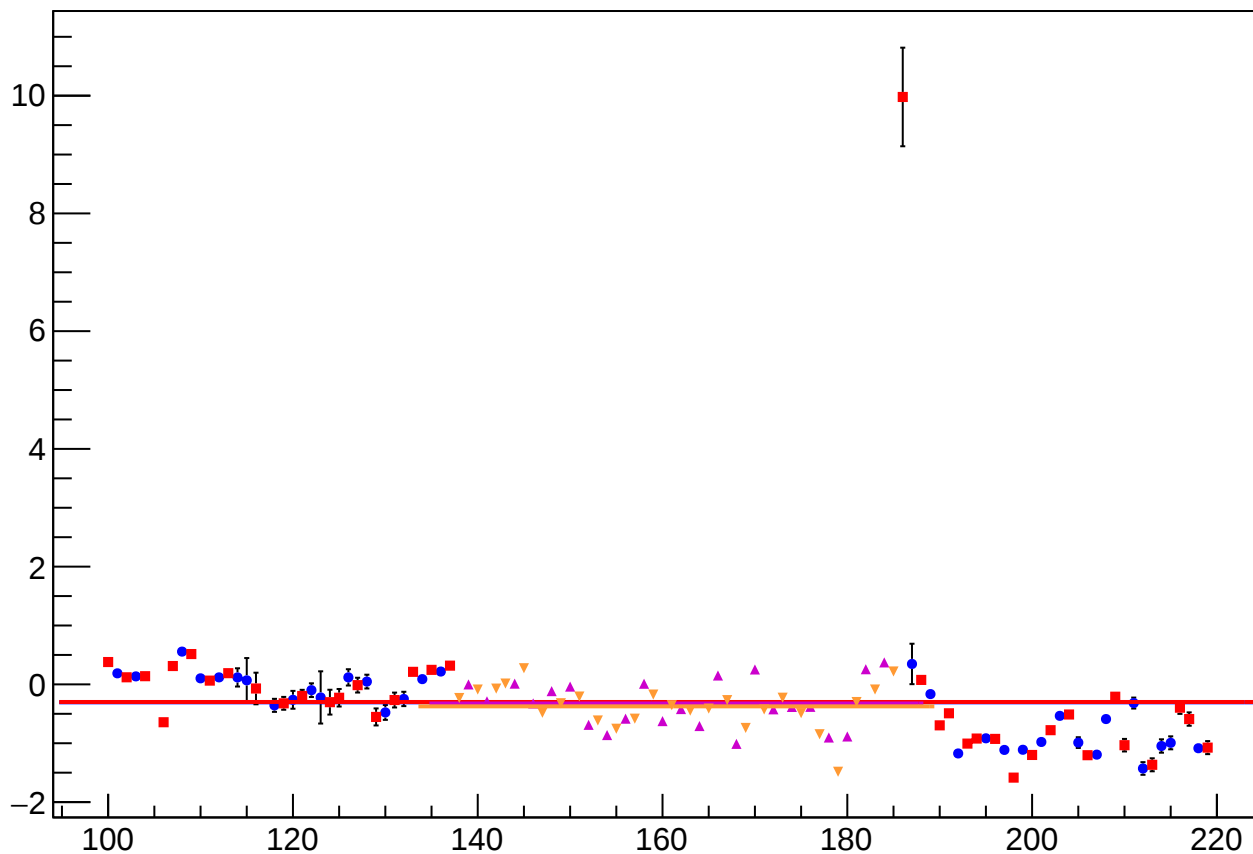
All: 10.540 ± 0.107 χ^2/NDF : 7293.9/117



Left In: 86.482+/-0.185 χ^2/NDF :1003.2/22

All: 71.200+/-0.103 χ^2/NDF : 100155.1/117

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.305 ± 0.011 χ^2/NDF : 3496.2/32

Left Out: -0.373 ± 0.008 χ^2/NDF : 1668.6/24

Right Out: -0.299 ± 0.010 χ^2/NDF : 3761.0/36

Left In: -0.325 ± 0.008 χ^2/NDF : 2284.1/22

Left: -0.349 ± 0.006 χ^2/NDF : 3970.2/47

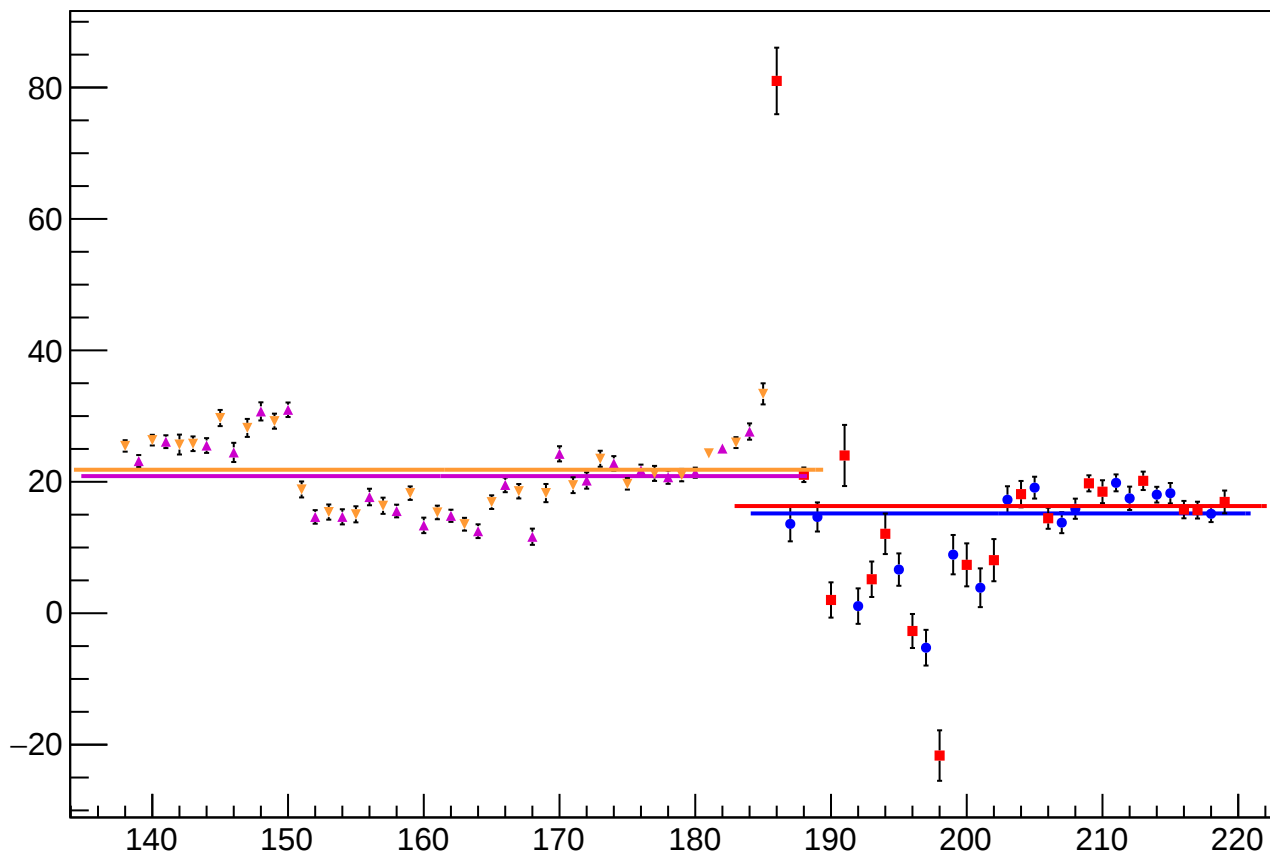
Right: -0.302 ± 0.007 χ^2/NDF : 7257.4/69

In: -0.317 ± 0.006 χ^2/NDF : 5782.6/55

Out: -0.343 ± 0.006 χ^2/NDF : 5463.3/61

All: -0.331 ± 0.005 χ^2/NDF : 11254.1/117

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 15.186 $\pm$ 0.443 χ^2 /NDF: 147.4/15

Left Out: 21.836 $\pm$ 0.210 χ^2 /NDF: 524.3/24

Right Out: 16.310 $\pm$ 0.432 χ^2 /NDF: 417.2/17

Left In: 20.866 $\pm$ 0.217 χ^2 /NDF: 576.9/22

Left: 21.366 $\pm$ 0.151 χ^2 /NDF: 1111.6/47

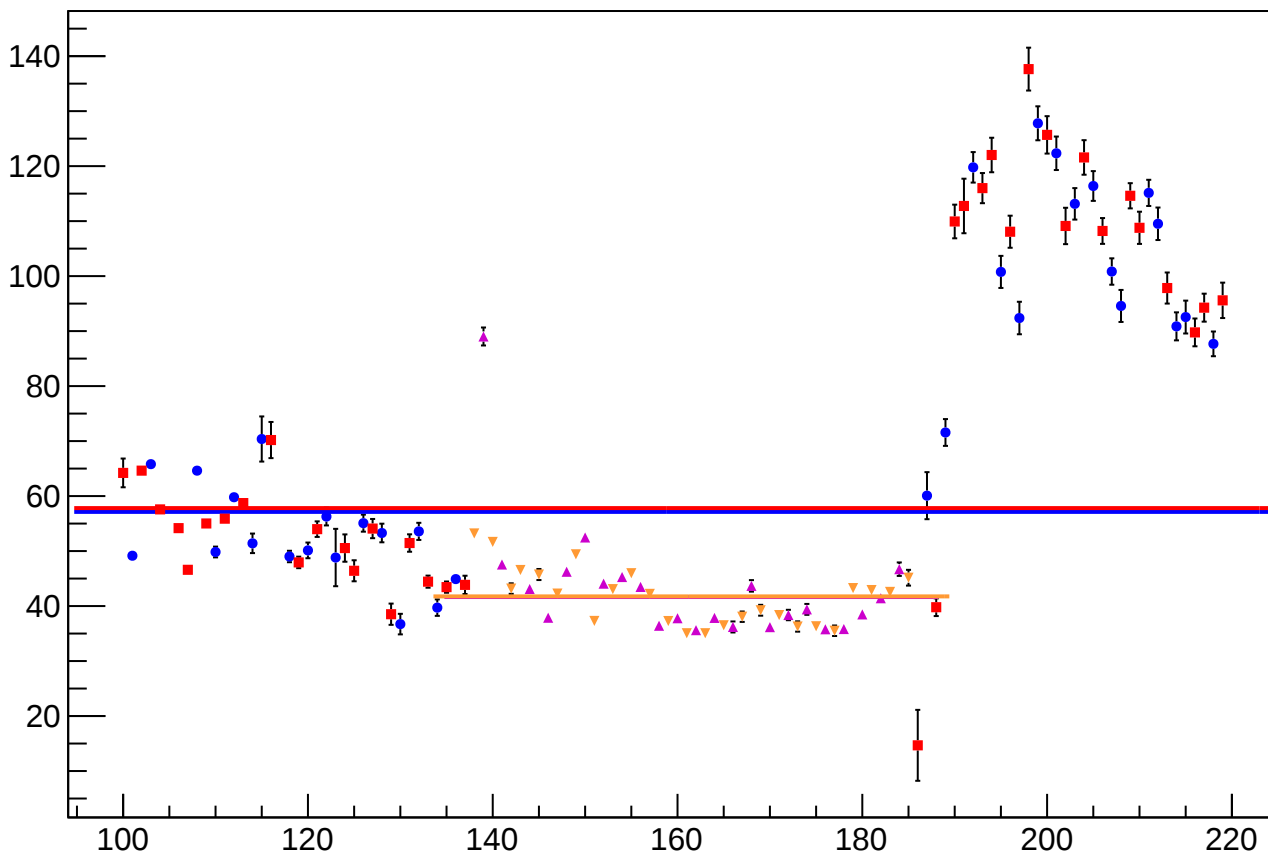
Right: 15.762 $\pm$ 0.309 χ^2 /NDF: 567.9/33

In: 19.770 $\pm$ 0.195 χ^2 /NDF: 856.9/38

Out: 20.783 $\pm$ 0.189 χ^2 /NDF: 1073.8/42

All: 20.292 $\pm$ 0.135 χ^2 /NDF: 1944.6/81

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 57.126+/-0.202 χ^2/NDF : 6245.2/32

Left Out: 41.757+/-0.165 χ^2/NDF : 1015.7/24

Right Out: 57.814+/-0.215 χ^2/NDF : 6571.8/36

Left In: 41.643+/-0.174 χ^2/NDF : 1611.0/22

Left: 41.703+/-0.120 χ^2/NDF : 2626.9/47

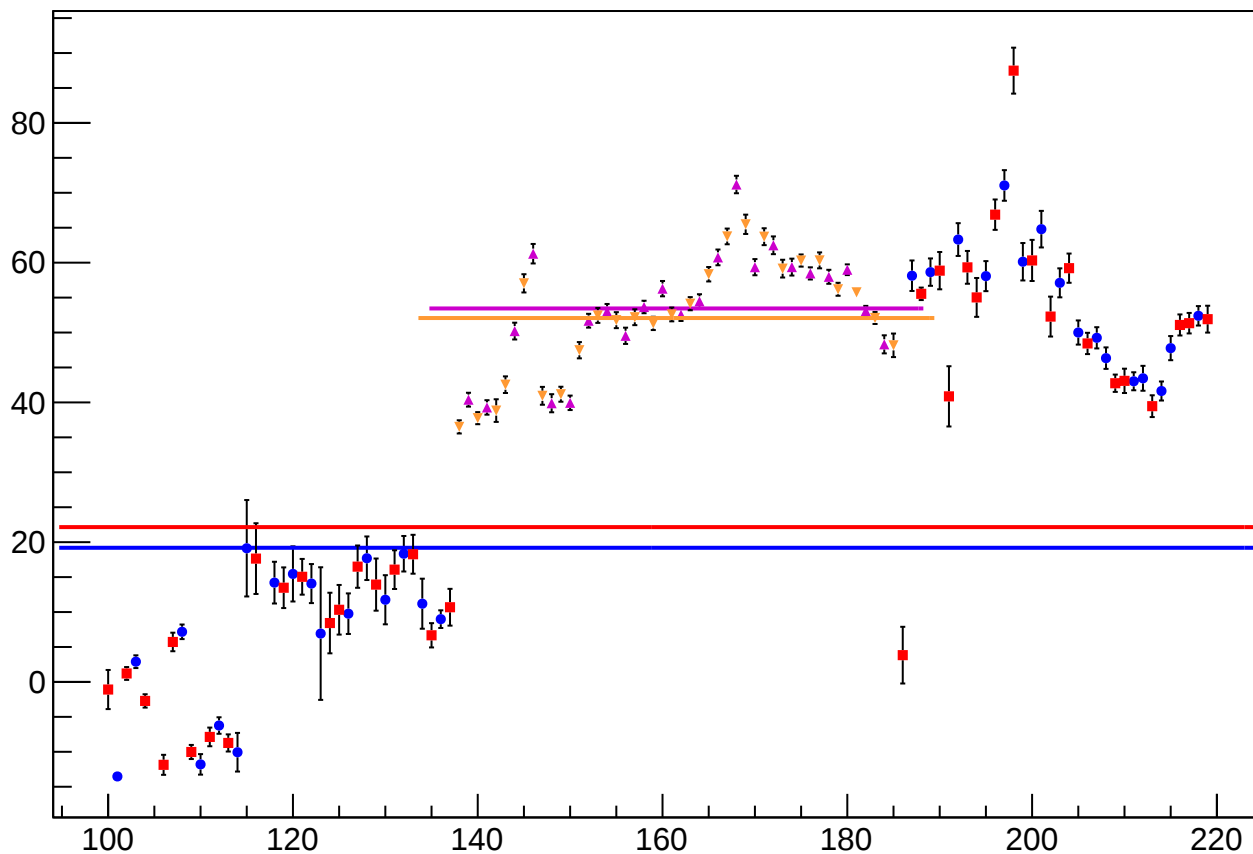
Right: 57.449+/-0.147 χ^2/NDF : 12822.4/69

In: 48.235+/-0.132 χ^2/NDF : 11236.0/55

Out: 47.739+/-0.131 χ^2/NDF : 11100.2/61

All: 47.986+/-0.093 χ^2/NDF : 22343.3/117

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.198 $\pm$ 0.282 χ^2 /NDF: 9839.6/32

Left Out: 52.076 $\pm$ 0.210 χ^2 /NDF:1450.9/24

Right Out: 22.156 $\pm$ 0.282 χ^2 /NDF: 9565.4/36

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

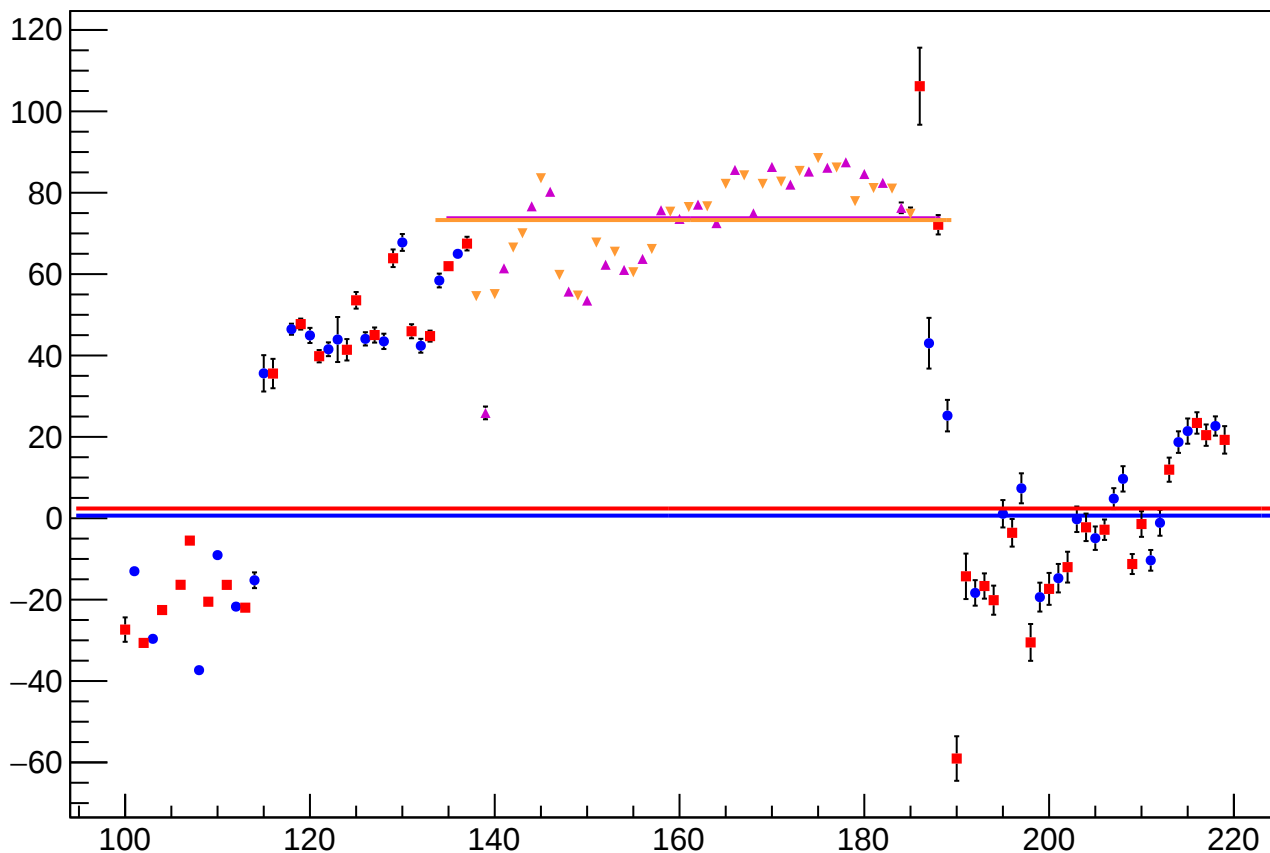
Right: 20.677 $\pm$ 0.199 χ^2 /NDF: 19460.2/69

In: 40.806 $\pm$ 0.171 χ^2 /NDF:20344.1/55

Out: 41.379 $\pm$ 0.168 χ^2 /NDF:18273.7/61

All: 41.097 $\pm$ 0.120 χ^2 /NDF: 38623.5/117

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.648 $\pm$ 0.236 χ^2 /NDF: 18611.7/32

Left Out: 73.284 $\pm$ 0.187 χ^2 /NDF:3144.2/24

Right Out: 2.398 $\pm$ 0.252 χ^2 /NDF: 16886.0/36

Left In: 73.730 $\pm$ 0.194 χ^2 /NDF:3775.8/22

Left: 73.498 $\pm$ 0.135 χ^2 /NDF: 6922.7/47

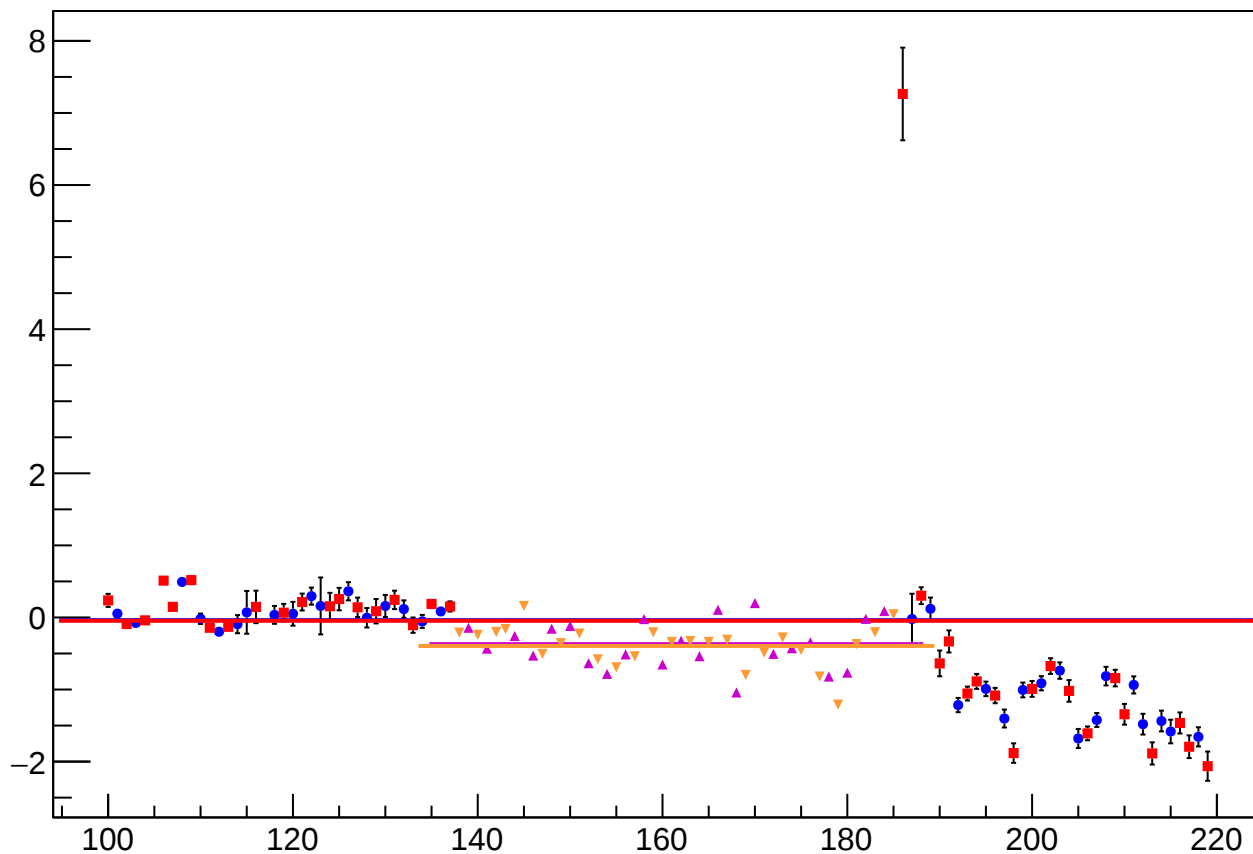
Right: 1.466 $\pm$ 0.172 χ^2 /NDF: 35523.4/69

In: 44.176 $\pm$ 0.150 χ^2 /NDF:79578.2/55

Out: 48.125 $\pm$ 0.150 χ^2 /NDF:71113.6/61

All: 46.149 $\pm$ 0.106 χ^2 /NDF: 151038.2/117

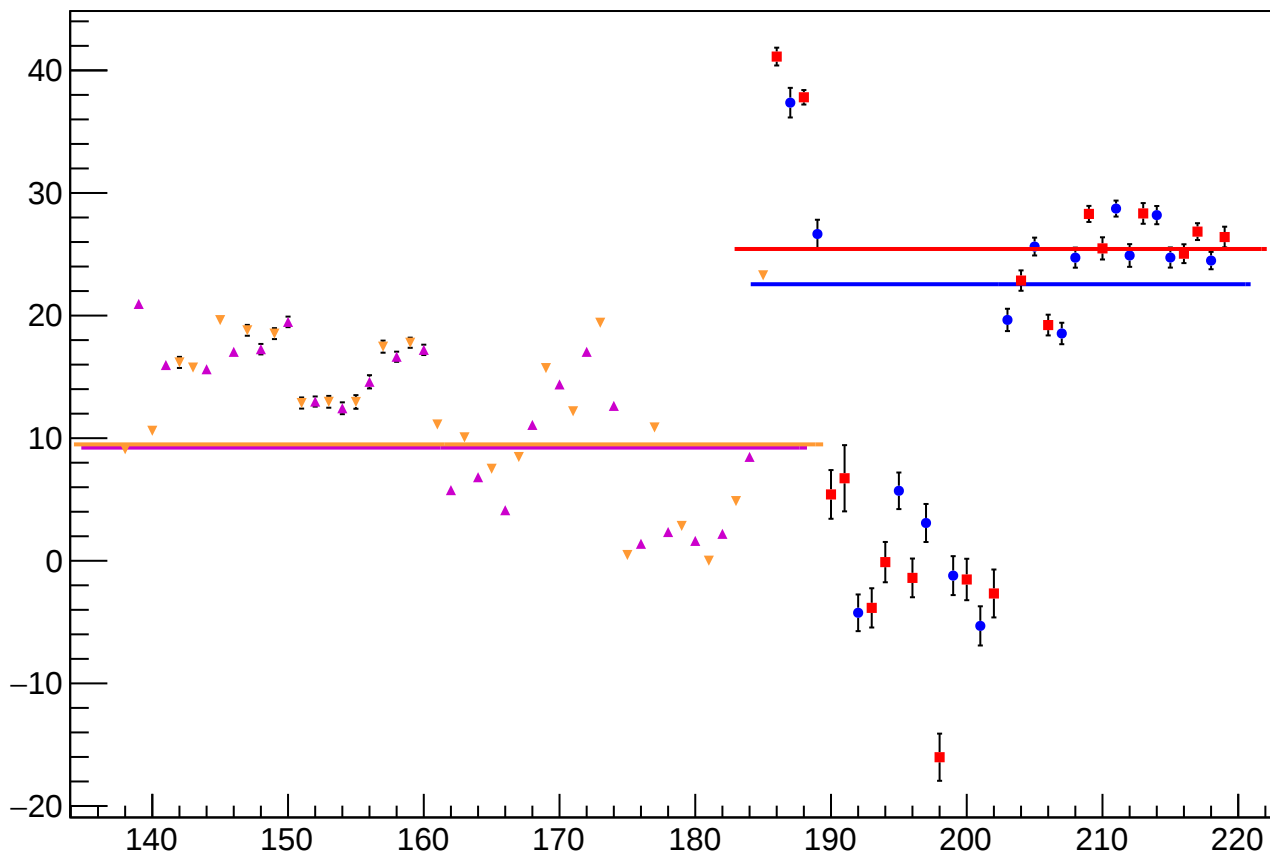
reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.038 ± 0.010 χ^2/NDF : 2009.4/32
 Left Out: -0.396 ± 0.009 χ^2/NDF : 950.0/24
 Right Out: -0.046 ± 0.010 χ^2/NDF : 2149.4/36
 Left In: -0.371 ± 0.009 χ^2/NDF : 1313.7/22

Left: -0.383 ± 0.006 χ^2/NDF : 2268.0/47
 Right: -0.042 ± 0.007 χ^2/NDF : 4159.0/69
 In: -0.233 ± 0.007 χ^2/NDF : 3926.2/55
 Out: -0.254 ± 0.007 χ^2/NDF : 3779.7/61
 All: -0.244 ± 0.005 χ^2/NDF : 7710.6/117

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 22.558 $\pm$ 0.234 χ^2 /NDF: 1521.1/15

Left Out: 9.495 $\pm$ 0.061 χ^2 /NDF:12609.1/24

Right Out: 25.432 $\pm$ 0.222 χ^2 /NDF: 2944.3/17

Left In: 9.231 $\pm$ 0.063 χ^2 /NDF:10736.2/22

Left: 9.367 $\pm$ 0.044 χ^2 /NDF: 23354.3/47

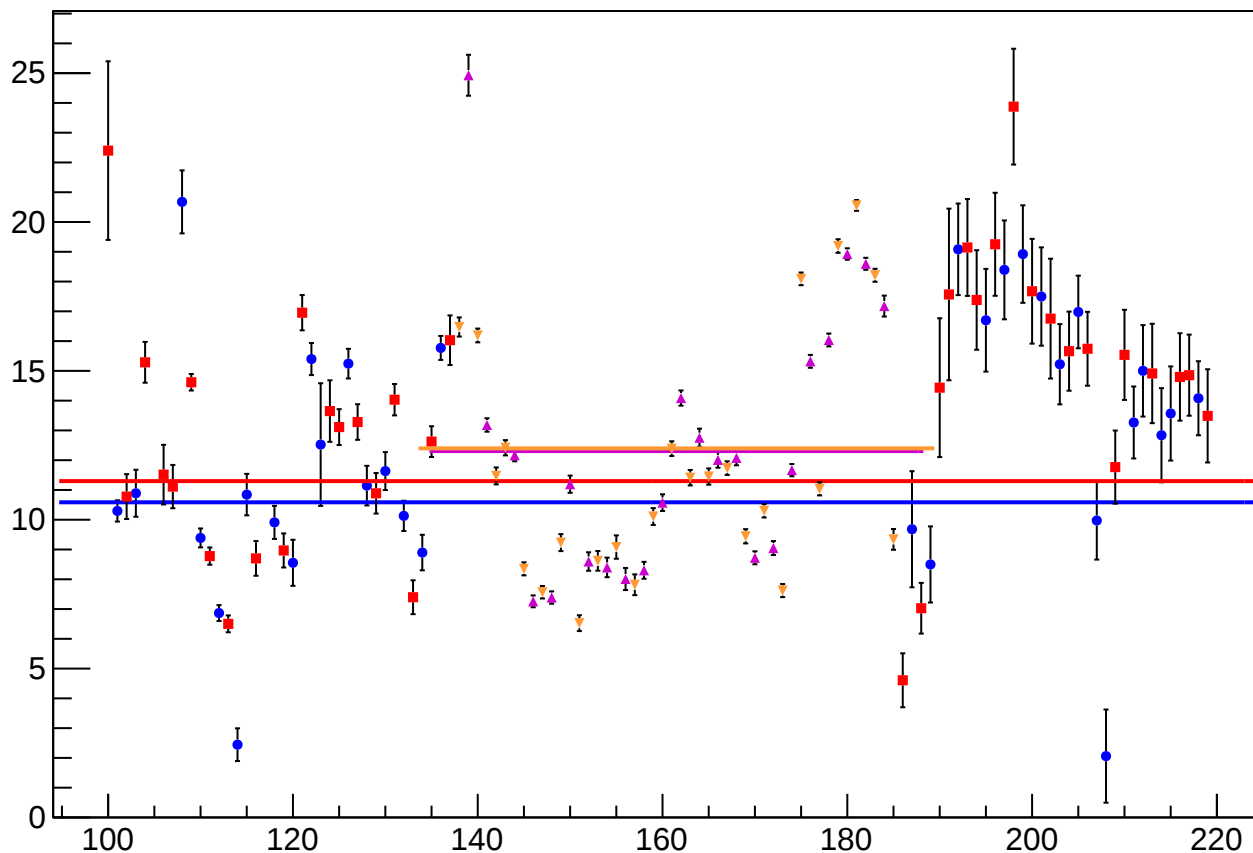
Right: 24.069 $\pm$ 0.161 χ^2 /NDF: 4544.7/33

In: 10.131 $\pm$ 0.061 χ^2 /NDF:15275.6/38

Out: 10.618 $\pm$ 0.059 χ^2 /NDF:20325.8/42

All: 10.382 $\pm$ 0.042 χ^2 /NDF: 35634.5/81

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.585 $\pm$ 0.114 χ^2 /NDF: 1081.5/32

Left Out: 12.397 $\pm$ 0.050 χ^2 /NDF: 7542.8/24

Right Out: 11.297 $\pm$ 0.110 χ^2 /NDF: 1076.8/36

Left In: 12.307 $\pm$ 0.051 χ^2 /NDF: 5601.8/22

Left: 12.353 $\pm$ 0.036 χ^2 /NDF: 13146.3/47

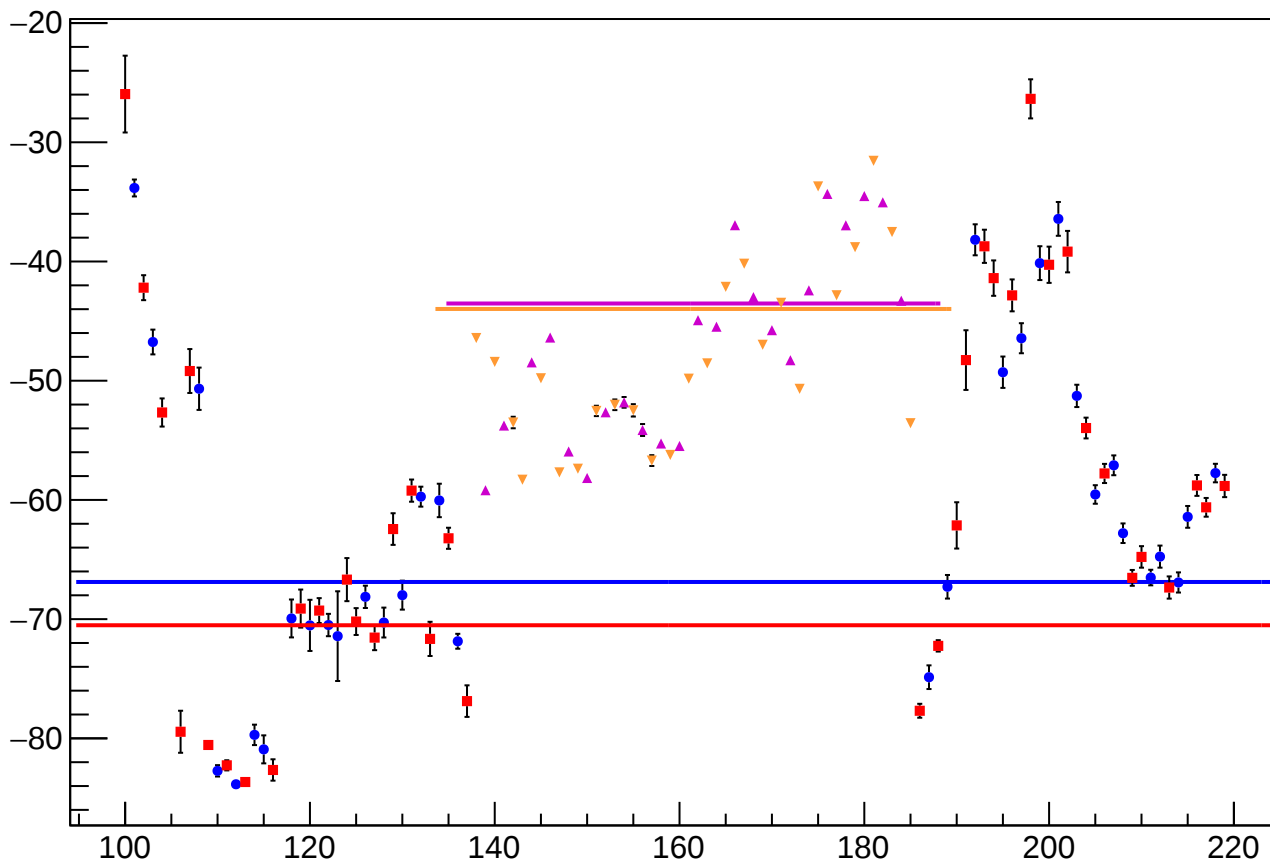
Right: 10.953 $\pm$ 0.079 χ^2 /NDF: 2178.5/69

In: 12.017 $\pm$ 0.047 χ^2 /NDF: 6873.9/55

Out: 12.211 $\pm$ 0.045 χ^2 /NDF: 8702.6/61

All: 12.117 $\pm$ 0.033 χ^2 /NDF: 15585.4/117

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -66.883 ± 0.151 $\chi^2/\text{NDF}: 8801.2/32$

Left Out: -43.982 ± 0.062 $\chi^2/\text{NDF}: 17736.8/24$

Right Out: -70.513 ± 0.138 $\chi^2/\text{NDF}: 8618.7/36$

Left In: -43.523 ± 0.063 $\chi^2/\text{NDF}: 15267.1/22$

Left: -43.757 ± 0.044 $\chi^2/\text{NDF}: 33030.8/47$

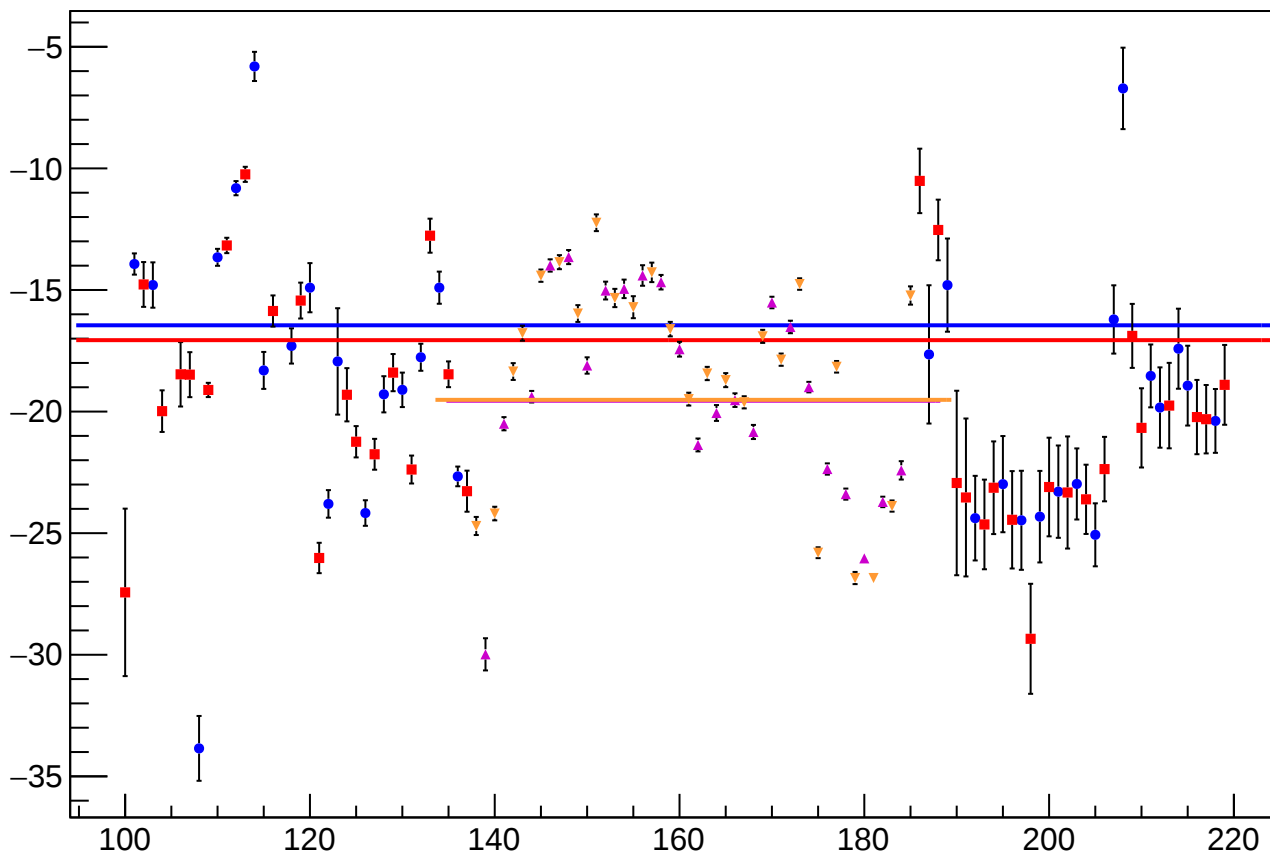
Right: -68.863 ± 0.102 $\chi^2/\text{NDF}: 17734.0/69$

In: -47.006 ± 0.058 $\chi^2/\text{NDF}: 44361.7/55$

Out: -48.426 ± 0.057 $\chi^2/\text{NDF}: 57092.7/61$

All: -47.740 ± 0.041 $\chi^2/\text{NDF}: 101759.4/117$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.452 ± 0.126 $\chi^2/\text{NDF}: 1823.2/32$

Left Out: -19.517 ± 0.056 $\chi^2/\text{NDF}: 6518.3/24$

Right Out: -17.063 ± 0.122 $\chi^2/\text{NDF}: 1401.8/36$

Left In: -19.555 ± 0.057 $\chi^2/\text{NDF}: 4311.2/22$

Left: -19.536 ± 0.040 $\chi^2/\text{NDF}: 10829.6/47$

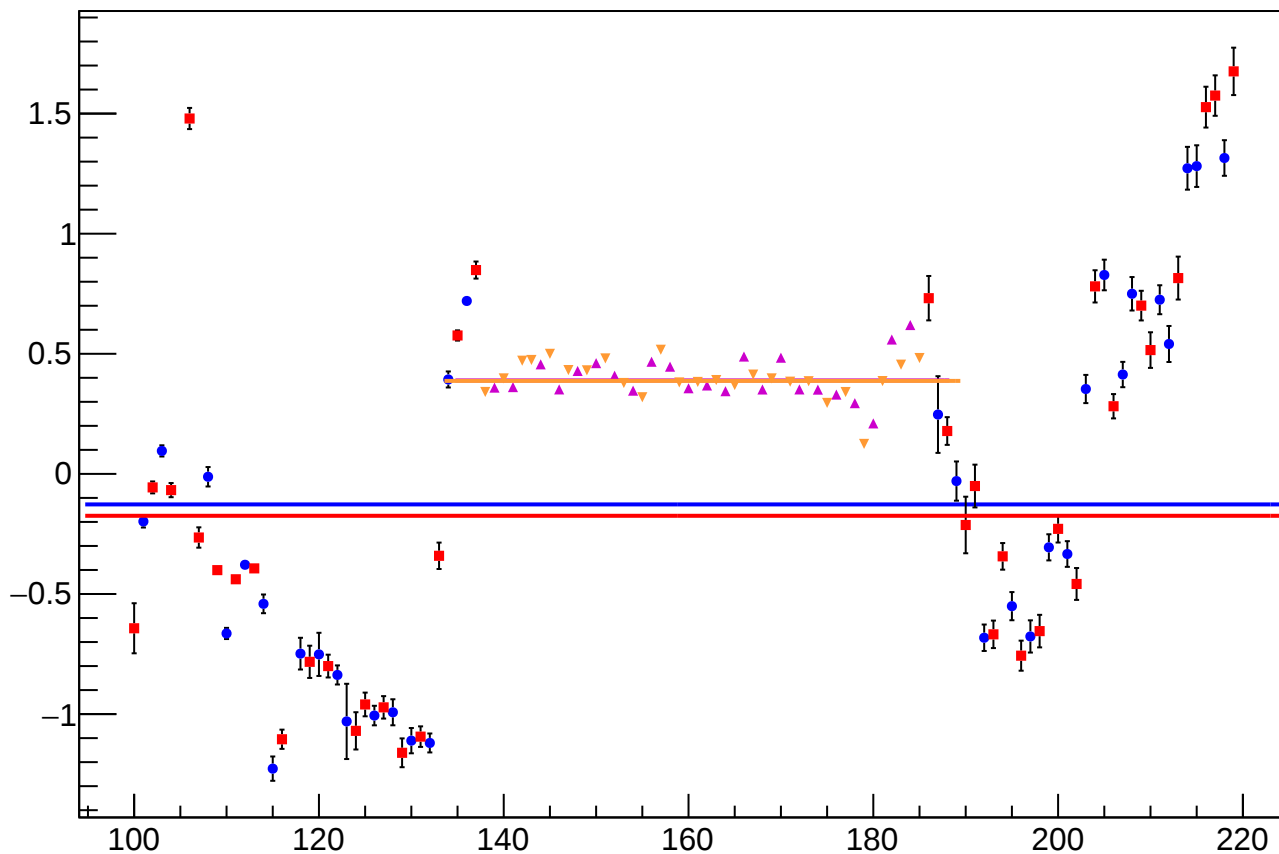
Right: -16.768 ± 0.088 $\chi^2/\text{NDF}: 3237.1/69$

In: -19.025 ± 0.052 $\chi^2/\text{NDF}: 6634.7/55$

Out: -19.093 ± 0.051 $\chi^2/\text{NDF}: 8254.8/61$

All: -19.060 ± 0.036 $\chi^2/\text{NDF}: 14890.4/117$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.127 ± 0.007 χ^2/NDF : 8375.9/32

Left Out: 0.387 ± 0.003 χ^2/NDF : 995.0/24

Right Out: -0.174 ± 0.007 χ^2/NDF : 8508.0/36

Left In: 0.389 ± 0.003 χ^2/NDF : 1256.9/22

Left: 0.388 ± 0.002 χ^2/NDF : 2252.2/47

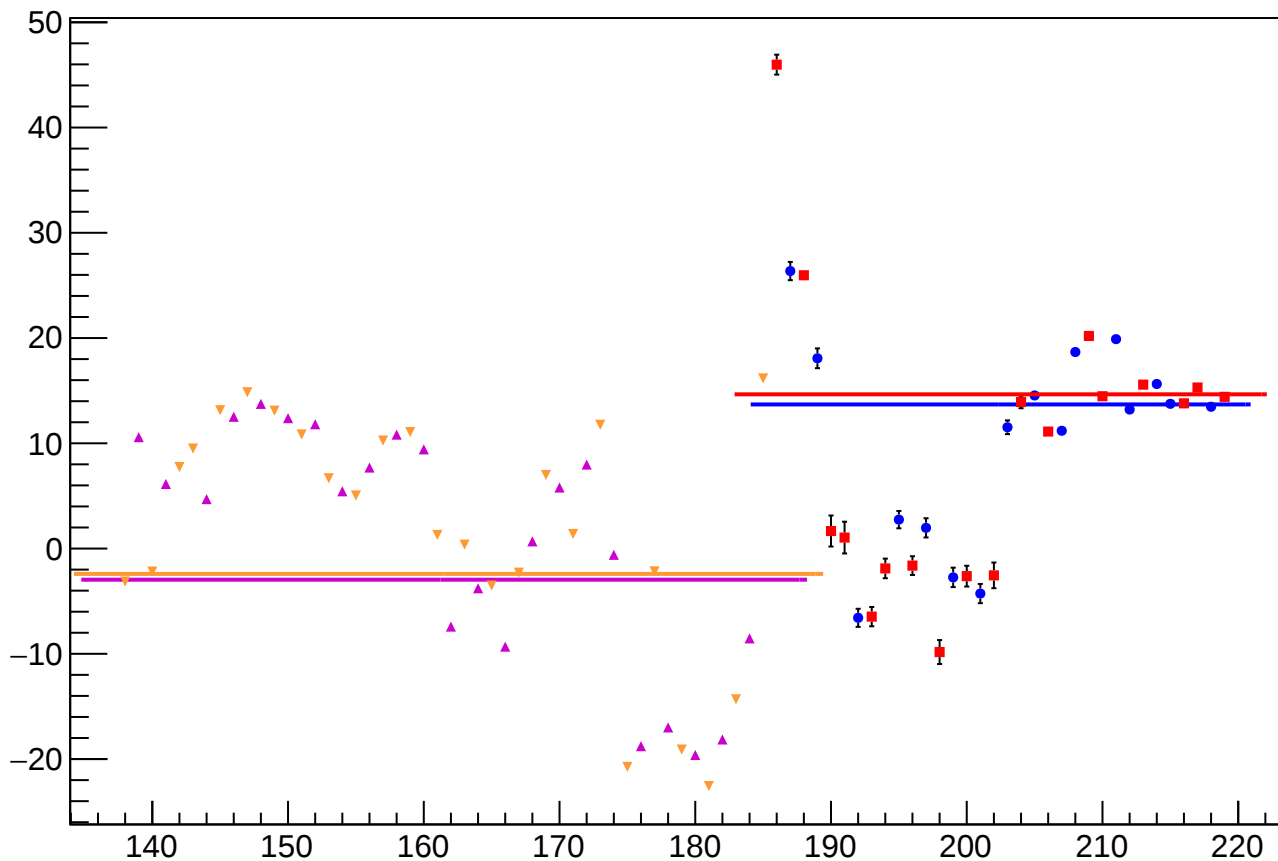
Right: -0.152 ± 0.005 χ^2/NDF : 16908.8/69

In: 0.324 ± 0.002 χ^2/NDF : 14569.9/55

Out: 0.313 ± 0.002 χ^2/NDF : 15852.6/61

All: 0.318 ± 0.002 χ^2/NDF : 30431.9/117

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.693 ± 0.127 $\chi^2/\text{NDF}: 2374.8/15$

Left Out: -2.407 ± 0.053 $\chi^2/\text{NDF}: 56368.5/24$

Right Out: 14.653 ± 0.125 $\chi^2/\text{NDF}: 4440.2/17$

Left In: -2.959 ± 0.055 $\chi^2/\text{NDF}: 45922.6/22$

Left: -2.672 ± 0.038 $\chi^2/\text{NDF}: 102343.8/47$

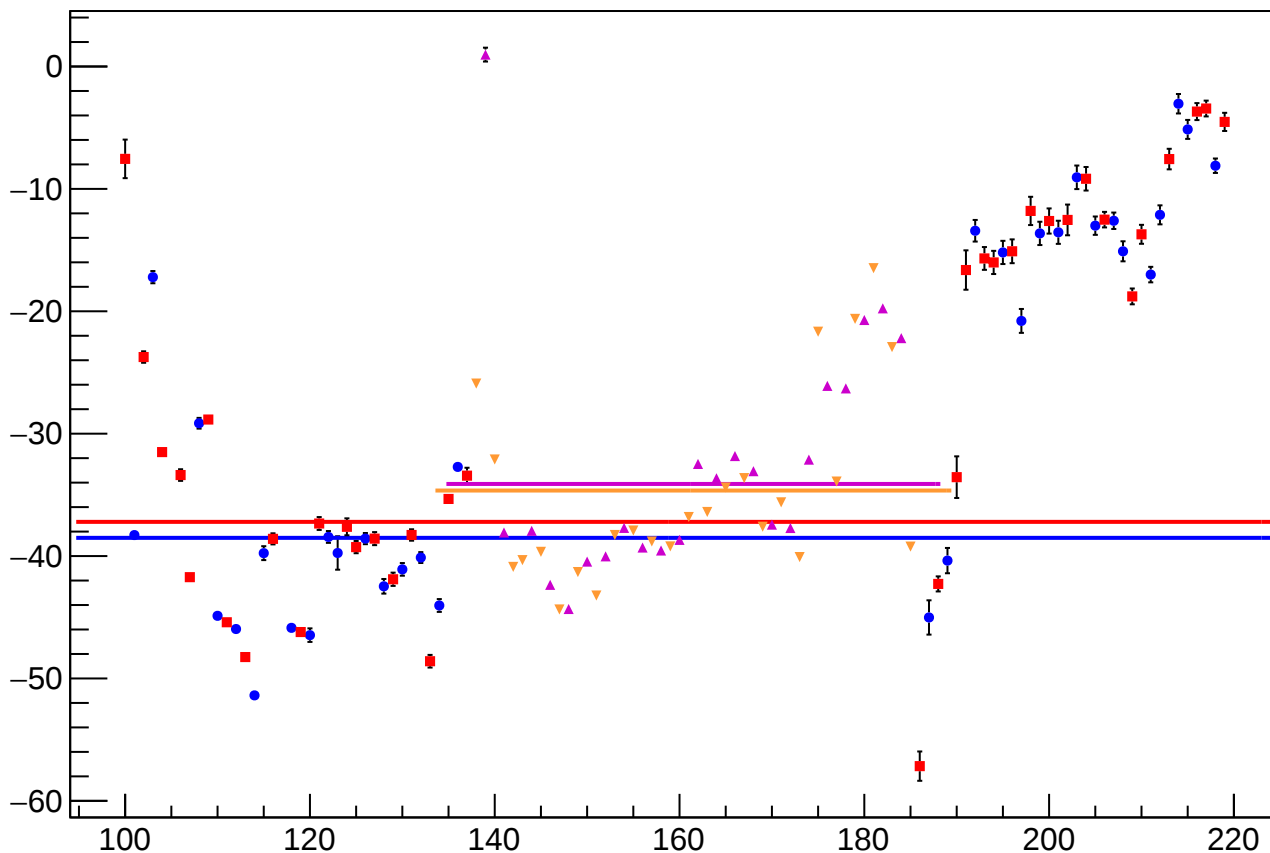
Right: 14.181 ± 0.089 $\chi^2/\text{NDF}: 6843.9/33$

In: -0.353 ± 0.050 $\chi^2/\text{NDF}: 62719.4/38$

Out: 0.161 ± 0.049 $\chi^2/\text{NDF}: 76539.1/42$

All: -0.087 ± 0.035 $\chi^2/\text{NDF}: 139312.4/81$

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -38.511 ± 0.073 $\chi^2/\text{NDF}: 25063.6/32$

Left Out: -34.646 ± 0.042 $\chi^2/\text{NDF}: 34674.7/24$

Right Out: -37.205 ± 0.068 $\chi^2/\text{NDF}: 28724.1/36$

Left In: -34.108 ± 0.044 $\chi^2/\text{NDF}: 29052.8/22$

Left: -34.390 ± 0.030 $\chi^2/\text{NDF}: 63806.0/47$

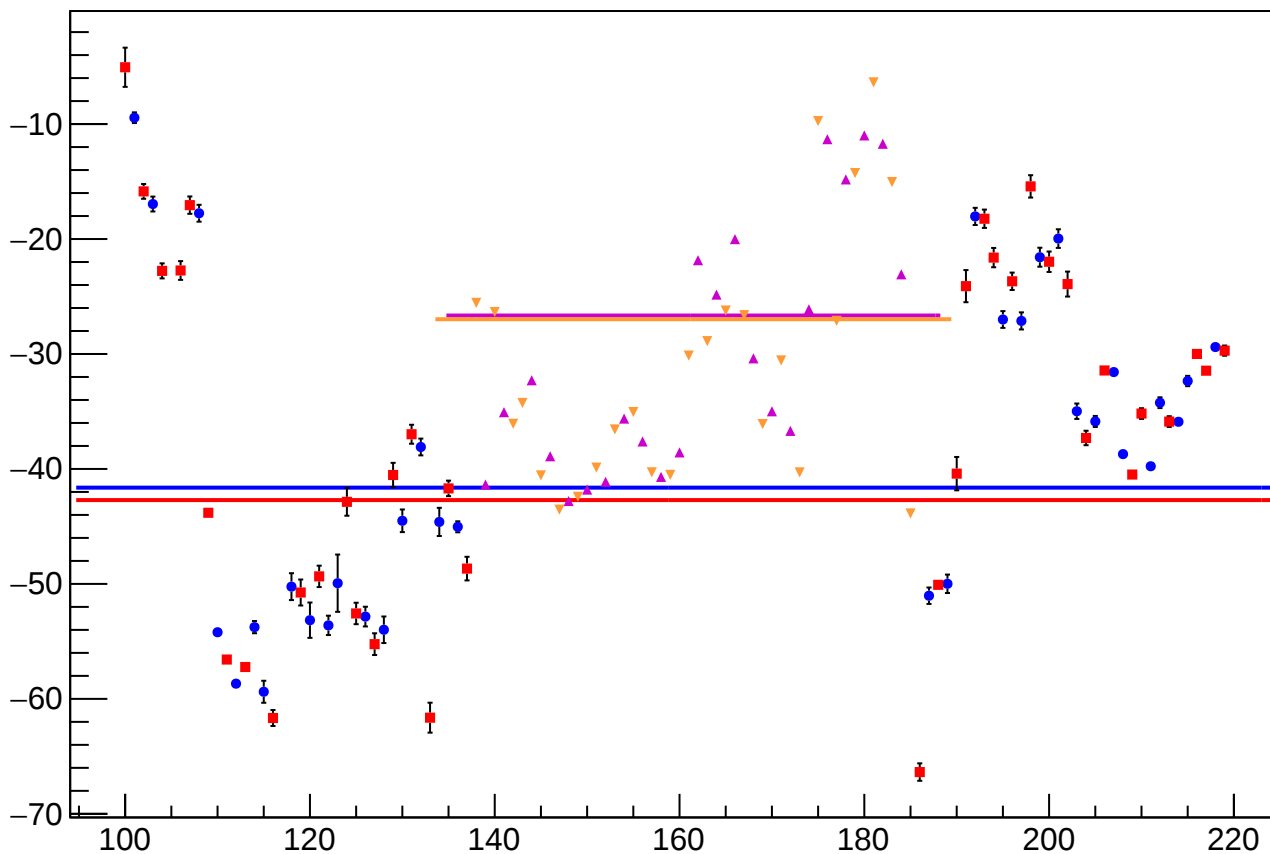
Right: -37.816 ± 0.050 $\chi^2/\text{NDF}: 53958.0/69$

In: -35.280 ± 0.038 $\chi^2/\text{NDF}: 56785.8/55$

Out: -35.341 ± 0.036 $\chi^2/\text{NDF}: 64418.4/61$

All: -35.312 ± 0.026 $\chi^2/\text{NDF}: 121205.6/117$

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.626 ± 0.090 $\chi^2/\text{NDF}: 24101.7/32$

Left Out: -26.978 ± 0.053 $\chi^2/\text{NDF}: 49361.1/24$

Right Out: -42.709 ± 0.082 $\chi^2/\text{NDF}: 23754.8/36$

Left In: -26.654 ± 0.055 $\chi^2/\text{NDF}: 42106.8/22$

Left: -26.821 ± 0.038 $\chi^2/\text{NDF}: 91485.8/47$

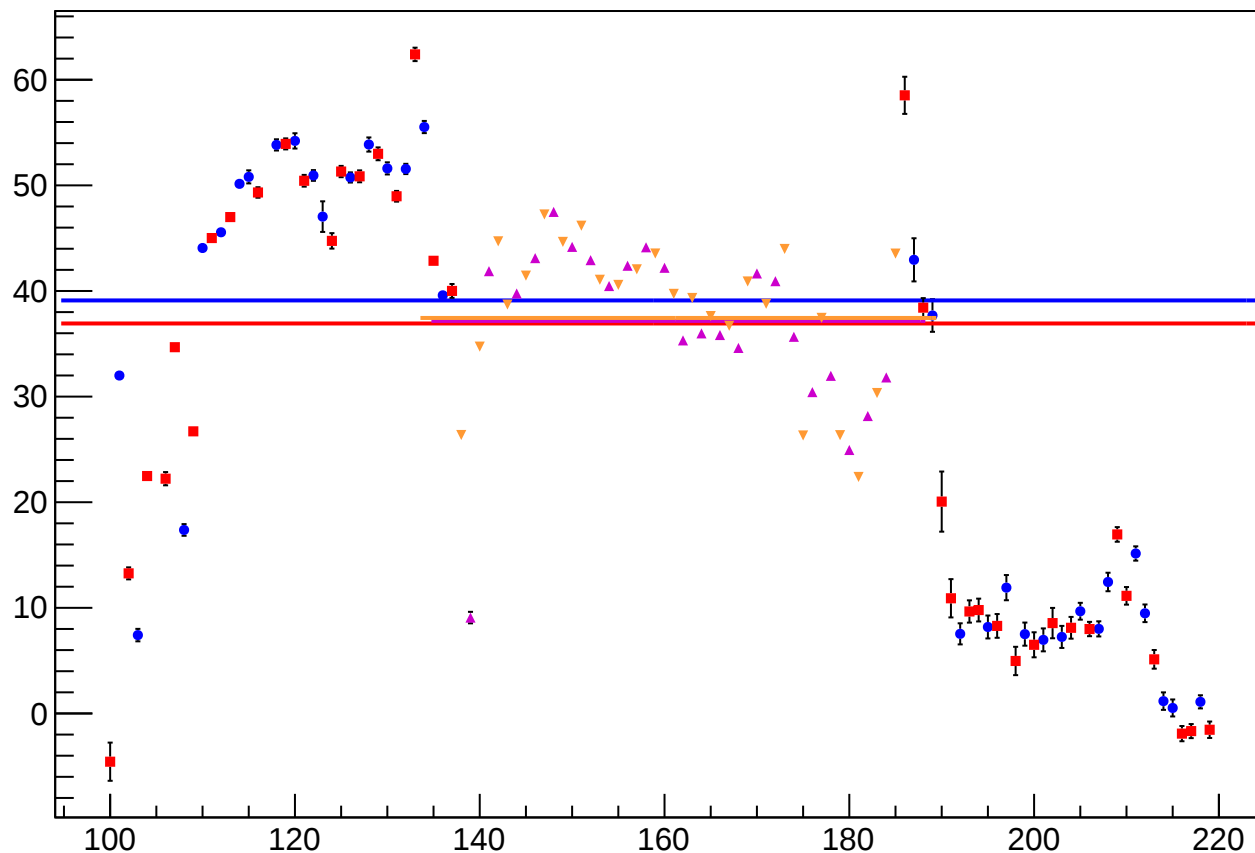
Right: -42.218 ± 0.060 $\chi^2/\text{NDF}: 47936.3/69$

In: -30.747 ± 0.047 $\chi^2/\text{NDF}: 86516.1/55$

Out: -31.663 ± 0.045 $\chi^2/\text{NDF}: 99168.6/61$

All: -31.228 ± 0.032 $\chi^2/\text{NDF}: 185885.3/117$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 39.106 $\pm$ 0.081 χ^2 /NDF: 33150.4/32

Left Out: 37.447 $\pm$ 0.047 χ^2 /NDF:21570.6/24

Right Out: 36.924 $\pm$ 0.076 χ^2 /NDF: 37934.6/36

Left In: 37.169 $\pm$ 0.049 χ^2 /NDF:17236.9/22

Left: 37.314 $\pm$ 0.034 χ^2 /NDF: 38824.1/47

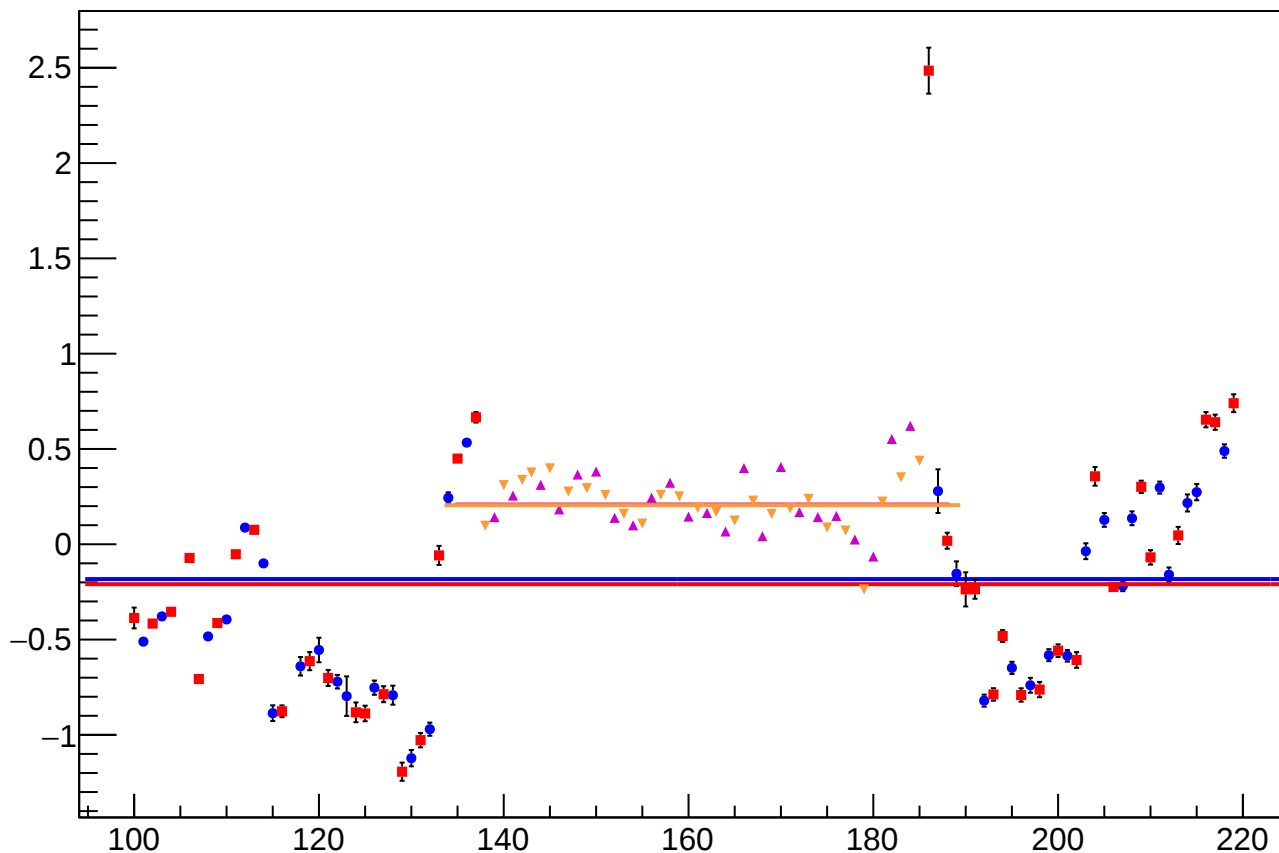
Right: 37.936 $\pm$ 0.055 χ^2 /NDF: 71472.5/69

In: 37.691 $\pm$ 0.042 χ^2 /NDF:50803.5/55

Out: 37.300 $\pm$ 0.040 χ^2 /NDF:59539.8/61

All: 37.485 $\pm$ 0.029 χ^2 /NDF: 110388.5/117

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.183 ± 0.004 χ^2/NDF : 9480.2/32

Left Out: 0.205 ± 0.002 χ^2/NDF : 3826.2/24

Right Out: -0.209 ± 0.004 χ^2/NDF : 10760.3/36

Left In: 0.208 ± 0.002 χ^2/NDF : 5094.6/22

Left: 0.207 ± 0.002 χ^2/NDF : 8922.0/47

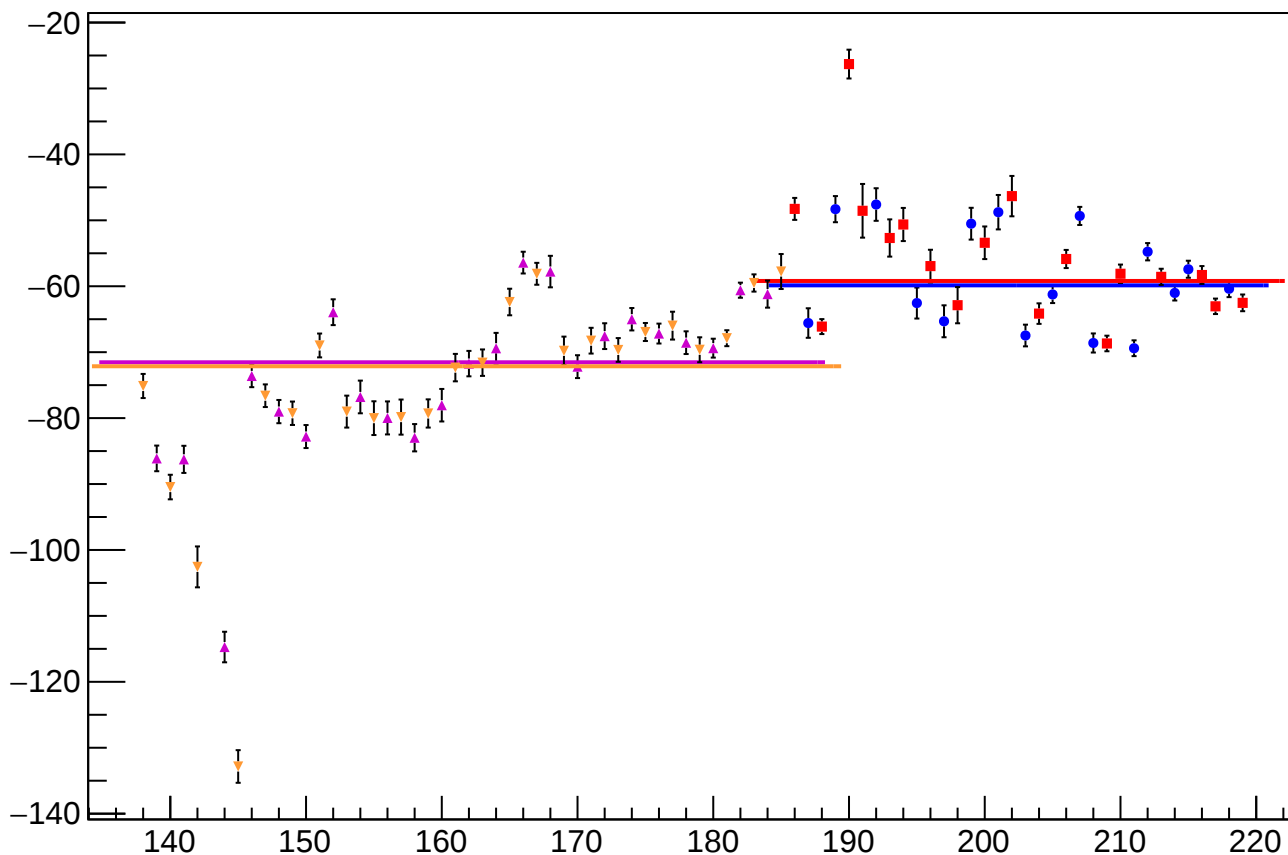
Right: -0.197 ± 0.003 χ^2/NDF : 20261.7/69

In: 0.124 ± 0.002 χ^2/NDF : 21125.7/55

Out: 0.107 ± 0.002 χ^2/NDF : 23200.2/61

All: 0.115 ± 0.001 χ^2/NDF : 44365.0/117

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -59.863 ± 0.392 χ^2/NDF : 305.6/15

Left Out: -72.138 ± 0.383 χ^2/NDF : 1121.3/23

Right Out: -59.198 ± 0.378 χ^2/NDF : 455.5/17

Left In: -71.534 ± 0.382 χ^2/NDF : 851.4/22

Left: -71.835 ± 0.270 χ^2/NDF : 1974.0/46

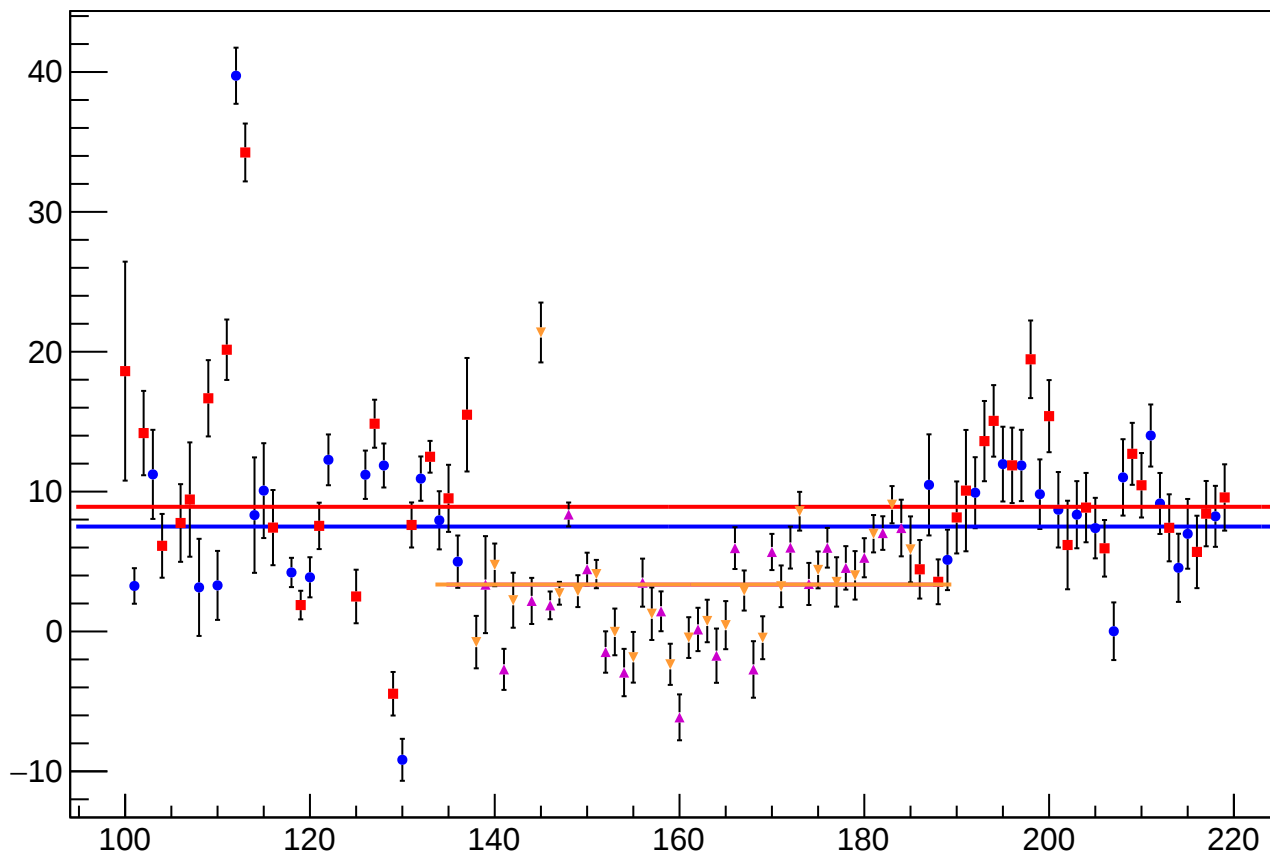
Right: -59.519 ± 0.272 χ^2/NDF : 762.6/33

In: -65.853 ± 0.273 χ^2/NDF : 1612.1/38

Out: -65.592 ± 0.269 χ^2/NDF : 2154.8/41

All: -65.720 ± 0.192 χ^2/NDF : 3767.3/80

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.500 $\pm$ 0.356 χ^2/NDF : 476.6/31

Left Out: 3.357 $\pm$ 0.295 χ^2/NDF :167.7/23

Right Out: 8.913 $\pm$ 0.352 χ^2/NDF : 404.4/35

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

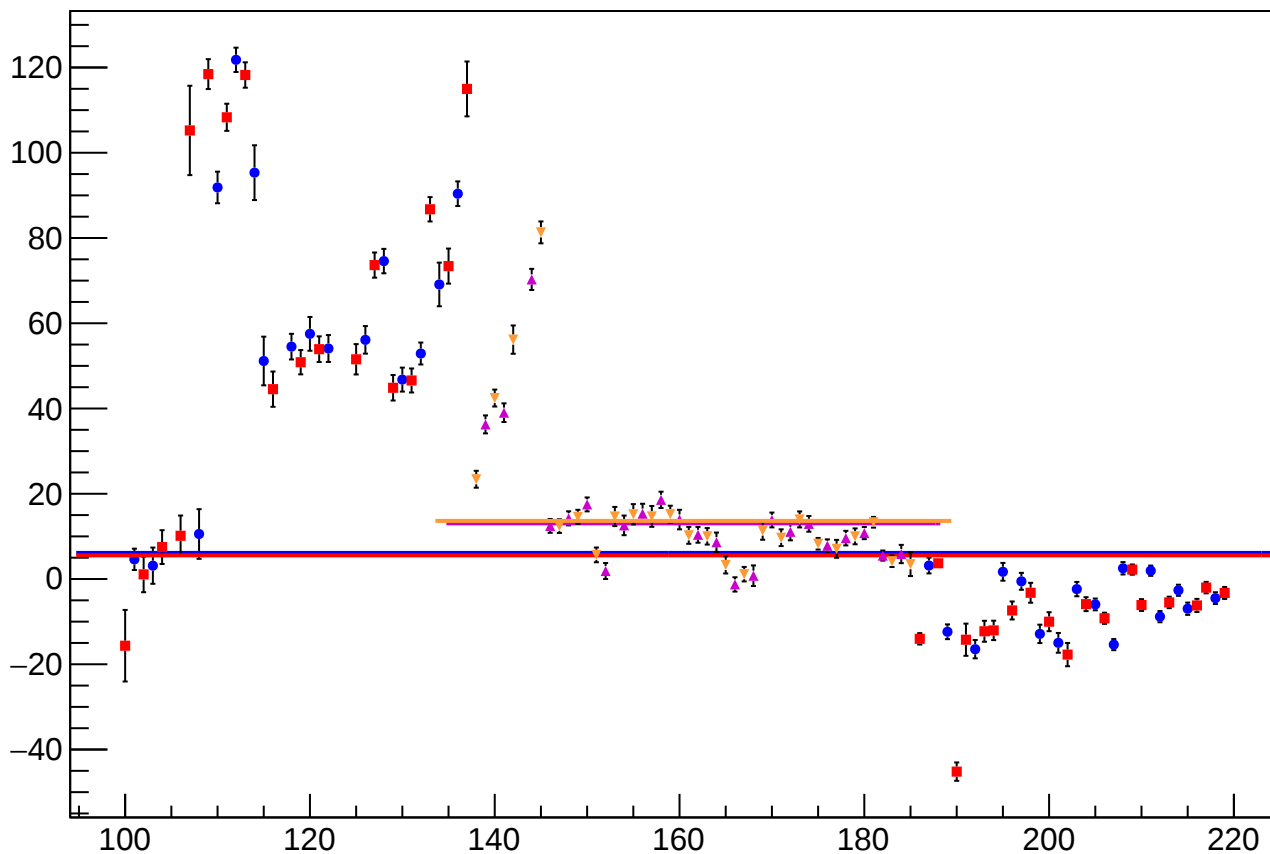
Right: 8.214 $\pm$ 0.250 χ^2/NDF : 888.9/67

In: 5.063 $\pm$ 0.229 χ^2/NDF :720.1/54

Out: 5.647 $\pm$ 0.226 χ^2/NDF :718.5/59

All: 5.358 $\pm$ 0.161 χ^2/NDF : 1441.9/114

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.125+/-0.354 χ^2/NDF : 6553.3/31

Left Out: 13.632+/-0.382 χ^2/NDF :1300.0/23

Right Out: 5.546+/-0.338 χ^2/NDF : 8205.2/35

Left In: 13.058+/-0.380 χ^2/NDF :1024.7/22

Left: 13.344+/-0.269 χ^2/NDF : 2325.9/46

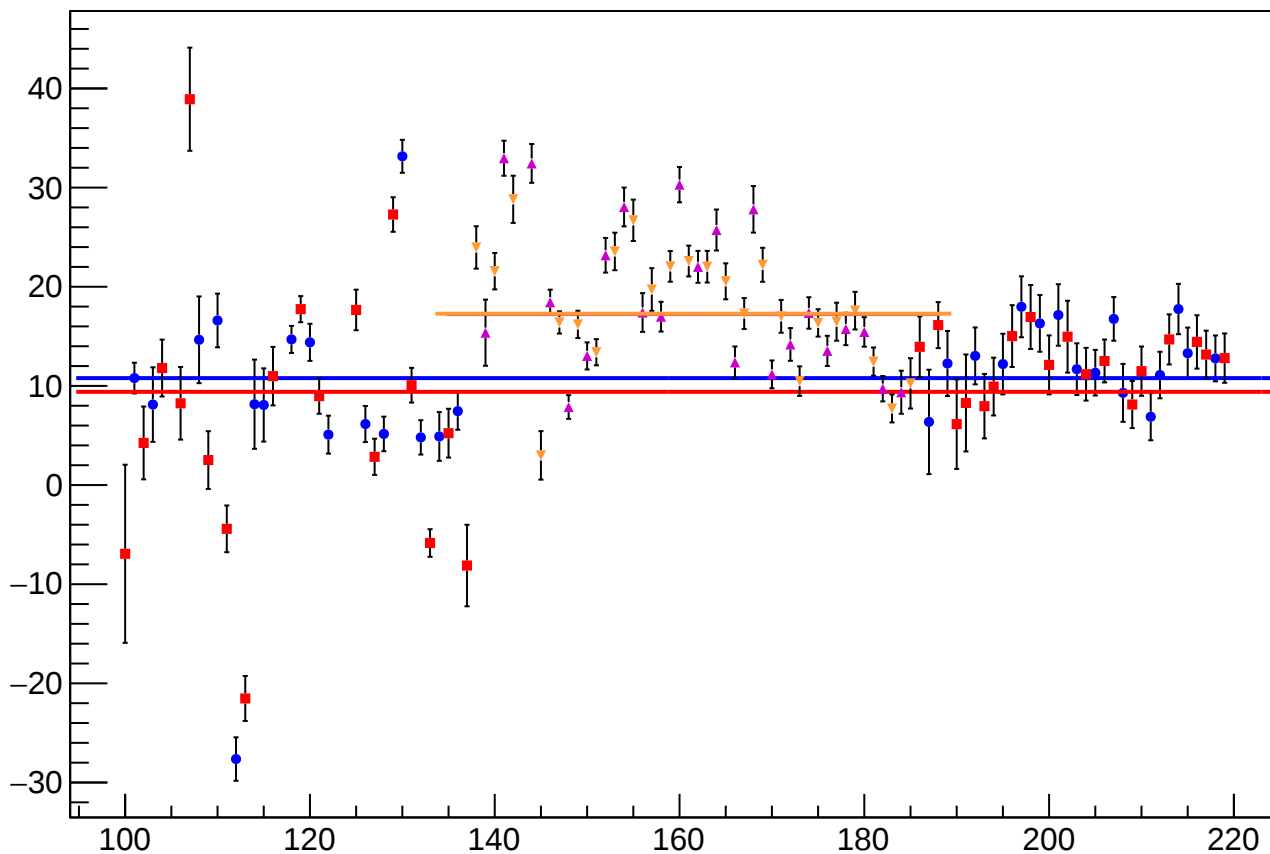
Right: 5.822+/-0.245 χ^2/NDF : 14759.8/67

In: 9.352+/-0.259 χ^2/NDF :7756.1/54

Out: 9.100+/-0.253 χ^2/NDF :9756.7/59

All: 9.223+/-0.181 χ^2/NDF : 17513.2/114

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.785 $\pm$ 0.406 χ^2 /NDF: 588.5/31

Left Out: 17.280 $\pm$ 0.337 χ^2 /NDF: 243.9/23

Right Out: 9.403 $\pm$ 0.406 χ^2 /NDF: 619.8/35

Left In: 17.245 $\pm$ 0.339 χ^2 /NDF: 440.8/22

Left: 17.262 $\pm$ 0.239 χ^2 /NDF: 684.6/46

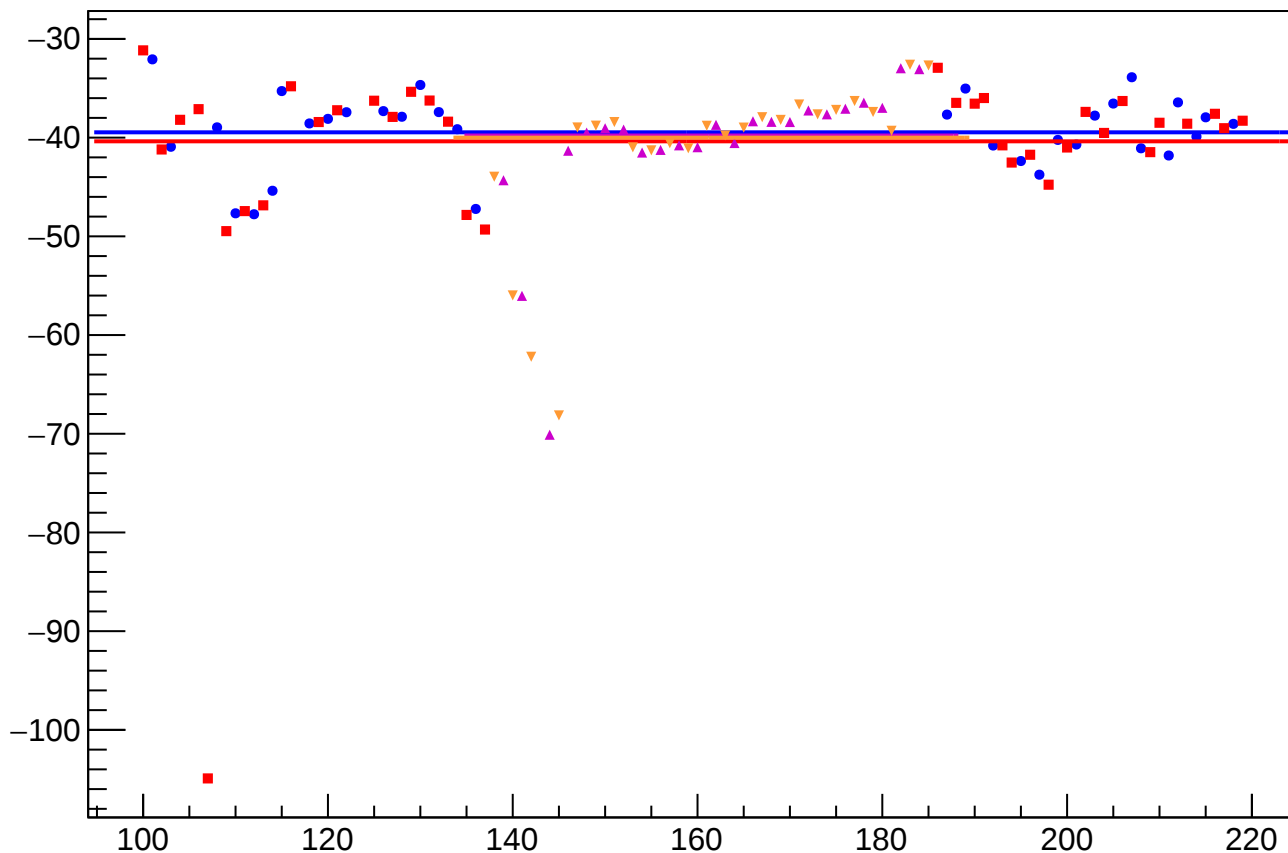
Right: 10.094 $\pm$ 0.287 χ^2 /NDF: 1214.1/67

In: 14.584 $\pm$ 0.260 χ^2 /NDF: 1178.5/54

Out: 14.066 $\pm$ 0.259 χ^2 /NDF: 1086.5/59

All: 14.324 $\pm$ 0.184 χ^2 /NDF: 2267.0/114

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.462 ± 0.020 $\chi^2/\text{NDF}: 37945.3/31$

Left Out: -39.999 ± 0.016 $\chi^2/\text{NDF}: 172263.8/23$

Right Out: -40.374 ± 0.020 $\chi^2/\text{NDF}: 107993.6/35$

Left In: -39.785 ± 0.016 $\chi^2/\text{NDF}: 144494.5/22$

Left: -39.891 ± 0.011 $\chi^2/\text{NDF}: 316851.8/46$

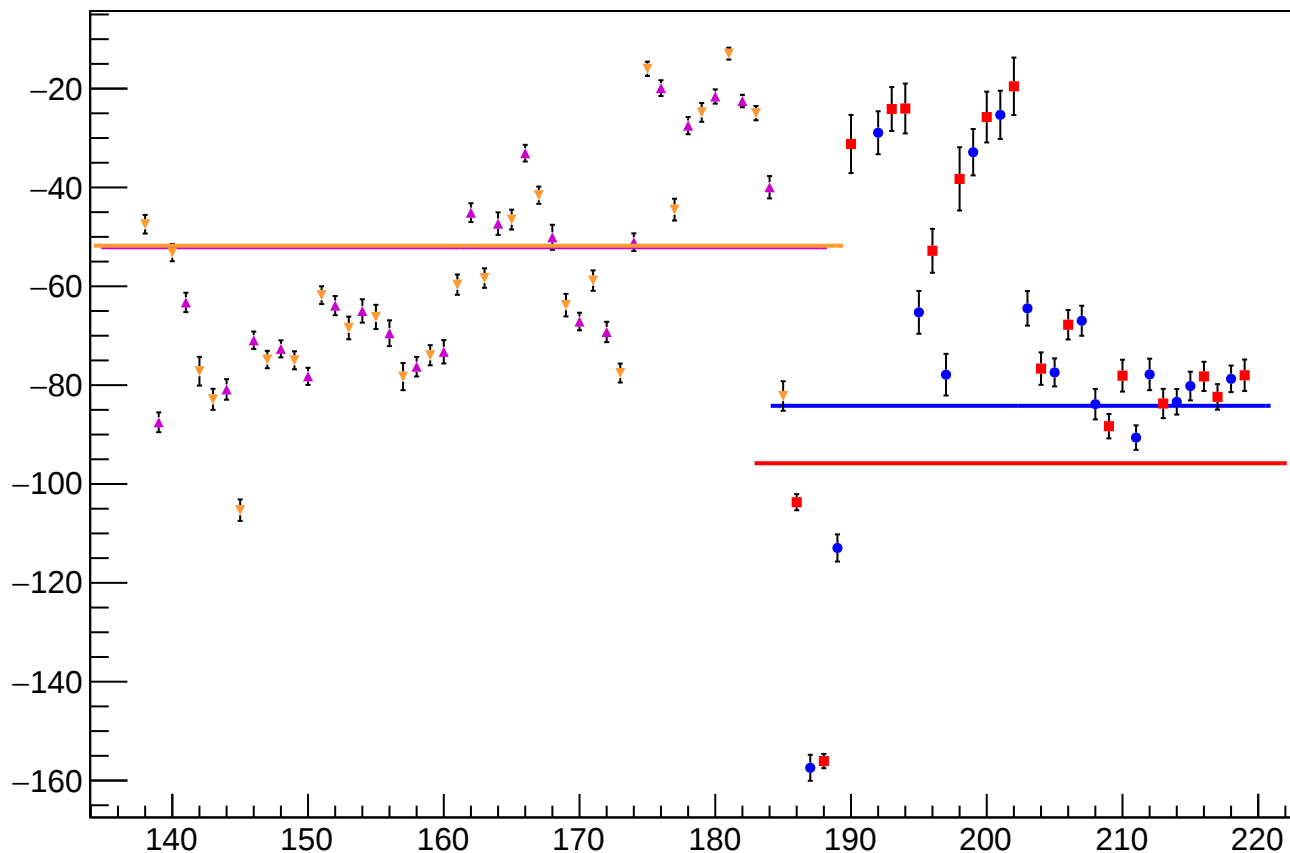
Right: -39.923 ± 0.014 $\chi^2/\text{NDF}: 146968.5/67$

In: -39.664 ± 0.012 $\chi^2/\text{NDF}: 182599.6/54$

Out: -40.143 ± 0.012 $\chi^2/\text{NDF}: 280474.0/59$

All: -39.903 ± 0.009 $\chi^2/\text{NDF}: 463823.4/114$

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -84.181 ± 0.787 $\chi^2/\text{NDF}: 1418.4/15$

Left Out: -51.787 ± 0.383 $\chi^2/\text{NDF}: 4164.8/24$

Right Out: -95.801 ± 0.697 $\chi^2/\text{NDF}: 3146.8/16$

Left In: -52.104 ± 0.389 $\chi^2/\text{NDF}: 3280.2/22$

Left: -51.943 ± 0.273 $\chi^2/\text{NDF}: 7445.3/47$

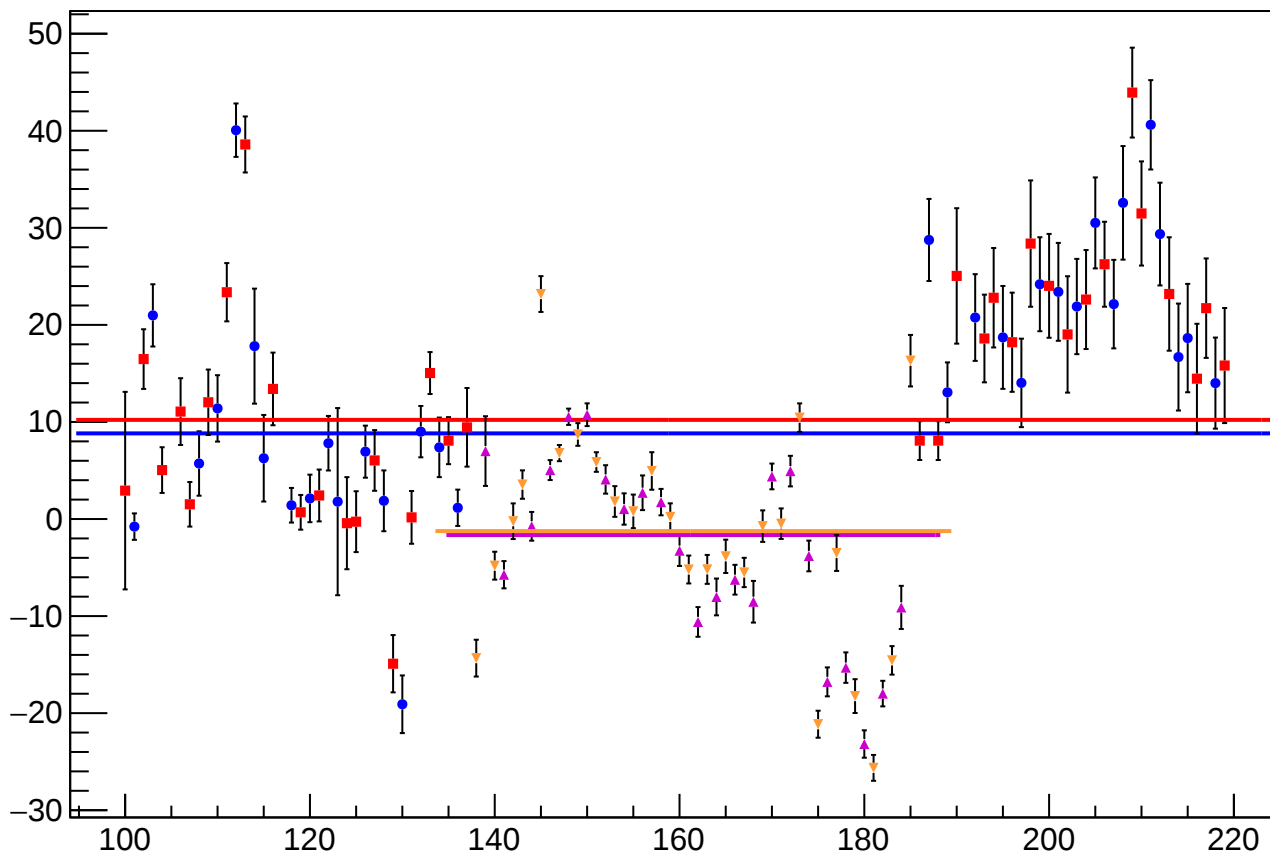
Right: -90.693 ± 0.522 $\chi^2/\text{NDF}: 4687.3/32$

In: -58.390 ± 0.349 $\chi^2/\text{NDF}: 6033.5/38$

Out: -61.974 ± 0.335 $\chi^2/\text{NDF}: 10374.2/41$

All: -60.251 ± 0.242 $\chi^2/\text{NDF}: 16462.6/80$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.823 ± 0.553 $\chi^2/\text{NDF}: 510.1/32$

Left Out: -1.245 ± 0.292 $\chi^2/\text{NDF}: 1322.6/24$

Right Out: 10.215 ± 0.543 $\chi^2/\text{NDF}: 422.3/35$

Left In: -1.650 ± 0.300 $\chi^2/\text{NDF}: 1092.2/22$

Left: -1.442 ± 0.209 $\chi^2/\text{NDF}: 2415.8/47$

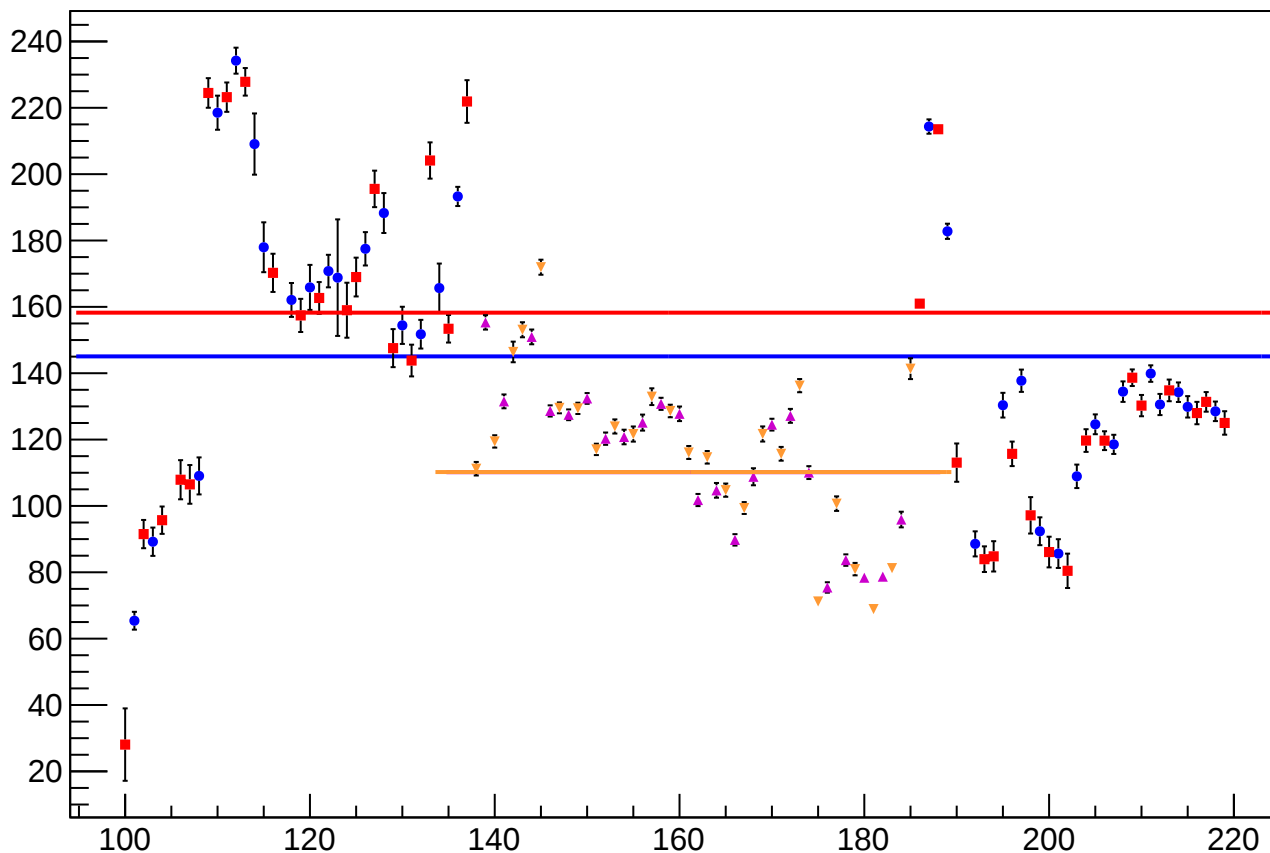
Right: 9.532 ± 0.388 $\chi^2/\text{NDF}: 935.7/68$

In: 0.730 ± 0.264 $\chi^2/\text{NDF}: 1879.0/55$

Out: 1.320 ± 0.257 $\chi^2/\text{NDF}: 2090.5/60$

All: 1.033 ± 0.184 $\chi^2/\text{NDF}: 3972.1/116$

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 145.074 $\pm$ 0.632 χ^2 /NDF: 4544.4/32

Left Out: 110.213 $\pm$ 0.382 χ^2 /NDF: 4593.7/24

Right Out: 158.252 $\pm$ 0.557 χ^2 /NDF: 6163.6/35

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

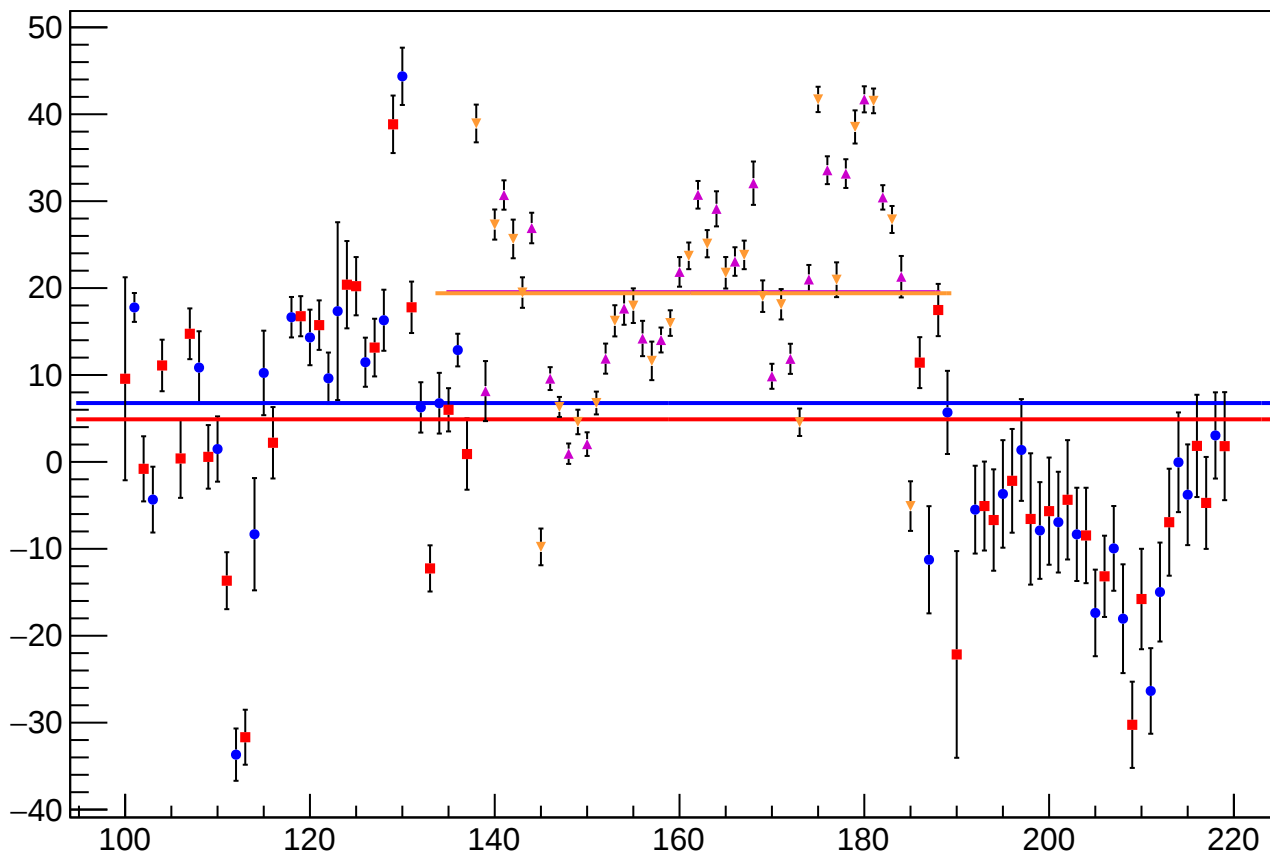
Right: 152.499 $\pm$ 0.418 χ^2 /NDF: 10952.8/68

In: 119.647 $\pm$ 0.329 χ^2 /NDF: 10467.0/55

Out: 125.598 $\pm$ 0.315 χ^2 /NDF: 15821.1/60

All: 122.756 $\pm$ 0.228 χ^2 /NDF: 26458.6/116

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.772 ± 0.637 χ^2/NDF : 573.2/32

Left Out: 19.405 ± 0.335 χ^2/NDF : 1453.4/24

Right Out: 4.900 ± 0.639 χ^2/NDF : 566.6/35

Left In: 19.530 ± 0.342 χ^2/NDF : 1181.3/22

Left: 19.466 ± 0.239 χ^2/NDF : 2634.8/47

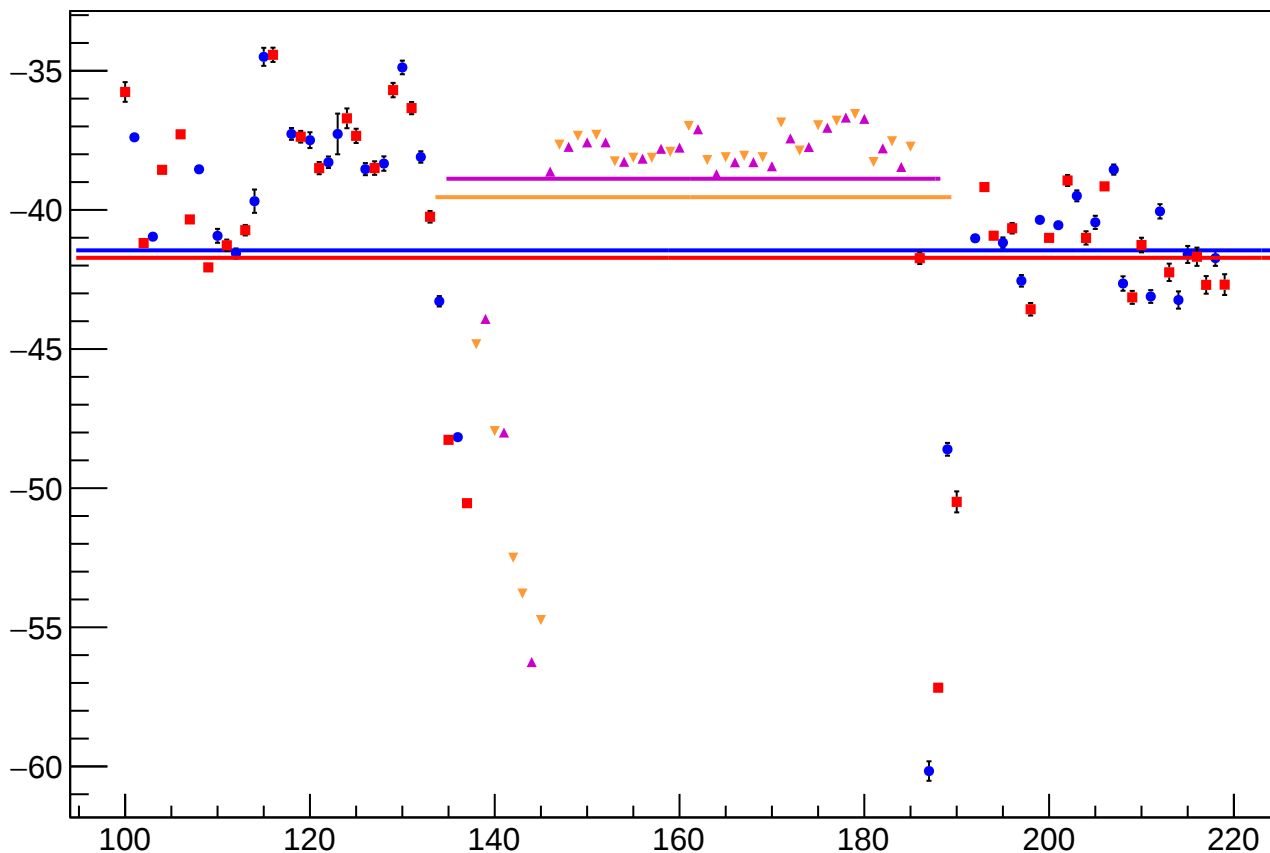
Right: 5.840 ± 0.451 χ^2/NDF : 1144.0/68

In: 16.666 ± 0.302 χ^2/NDF : 2066.0/55

Out: 16.286 ± 0.297 χ^2/NDF : 2423.9/60

All: 16.473 ± 0.211 χ^2/NDF : 4490.7/116

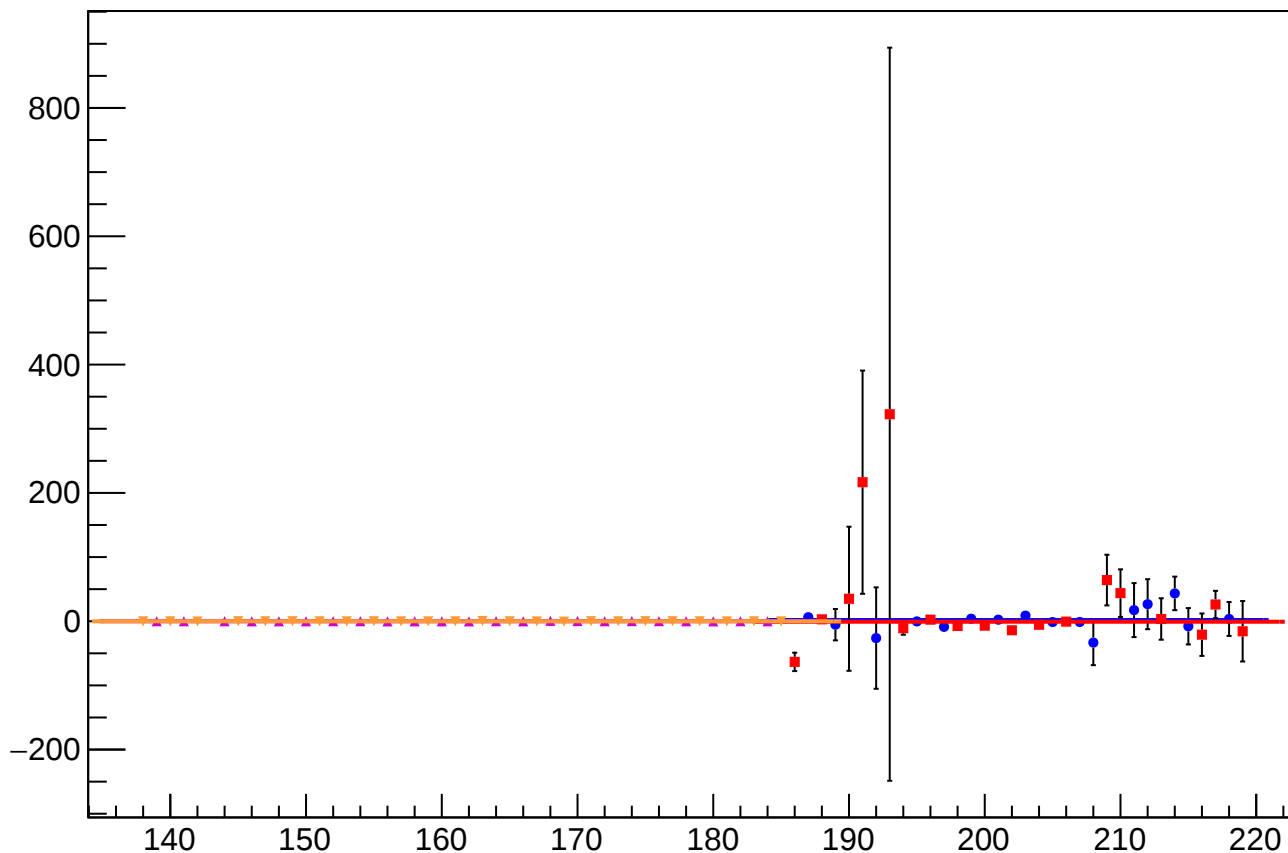
reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.453 ± 0.031 $\chi^2/\text{NDF}: 16957.6/32$
 Left Out: -39.542 ± 0.016 $\chi^2/\text{NDF}: 92024.1/24$
 Right Out: -41.721 ± 0.031 $\chi^2/\text{NDF}: 23130.1/35$
 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: -41.588 ± 0.022 $\chi^2/\text{NDF}: 40124.6/68$
 In: -39.405 ± 0.014 $\chi^2/\text{NDF}: 75741.2/55$
 Out: -39.987 ± 0.014 $\chi^2/\text{NDF}: 119072.0/60$
 All: -39.698 ± 0.010 $\chi^2/\text{NDF}: 195664.3/116$

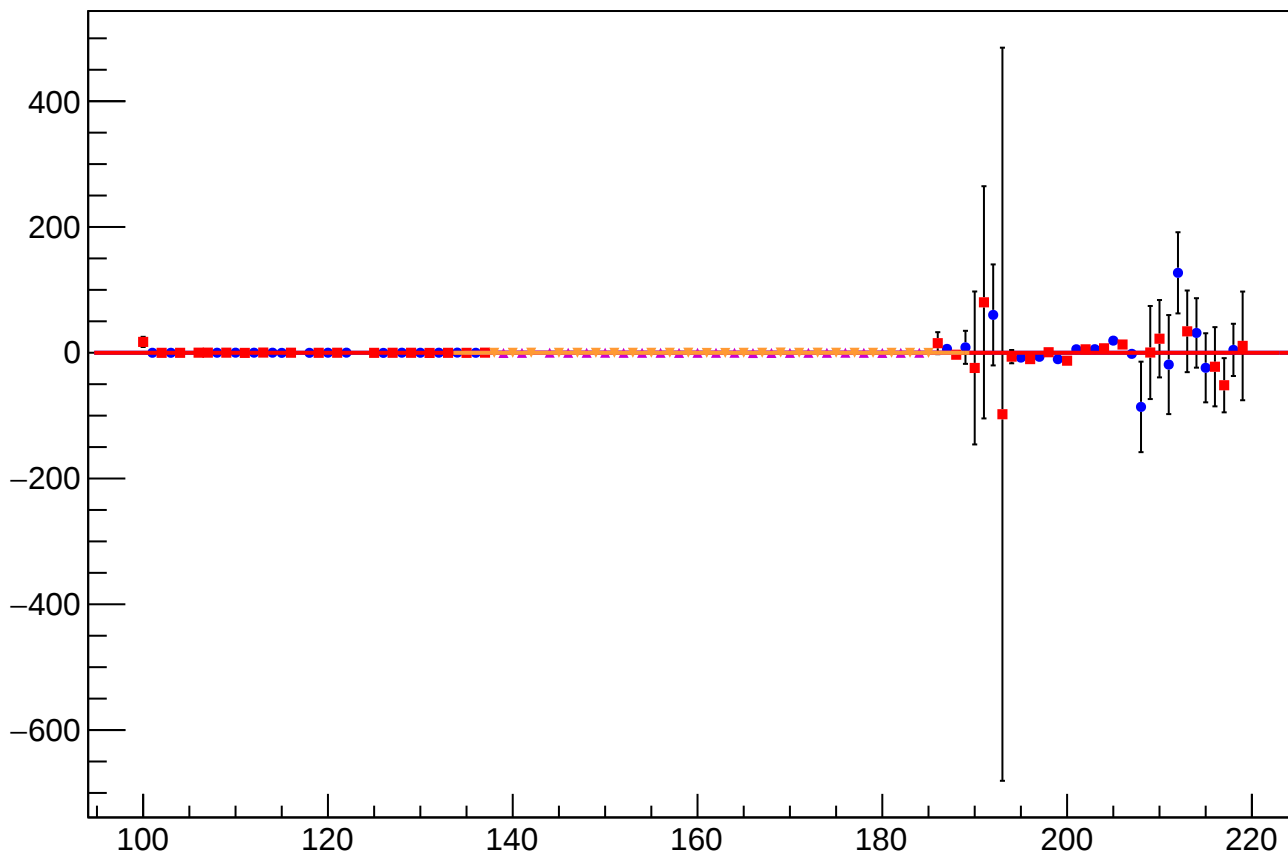
reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.875 ± 1.526 $\chi^2/\text{NDF}: 15.4/15$
 Left Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 39.7/23$
 Right Out: -0.768 ± 1.414 $\chi^2/\text{NDF}: 38.8/17$
 Left In: -0.026 ± 0.022 $\chi^2/\text{NDF}: 33.3/22$

Left: -0.057 ± 0.016 $\chi^2/\text{NDF}: 77.1/46$
 Right: 0.452 ± 1.037 $\chi^2/\text{NDF}: 55.8/33$
 In: -0.025 ± 0.022 $\chi^2/\text{NDF}: 50.3/38$
 Out: -0.089 ± 0.022 $\chi^2/\text{NDF}: 78.7/41$
 All: -0.057 ± 0.016 $\chi^2/\text{NDF}: 133.1/80$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.002 ± 0.029 χ^2/NDF : 37.8/31

Left Out: -0.081 ± 0.017 χ^2/NDF : 25.8/23

Right Out: -0.050 ± 0.029 χ^2/NDF : 43.1/35

Left In: -0.052 ± 0.018 χ^2/NDF : 31.7/22

Left: -0.067 ± 0.012 χ^2/NDF : 58.9/46

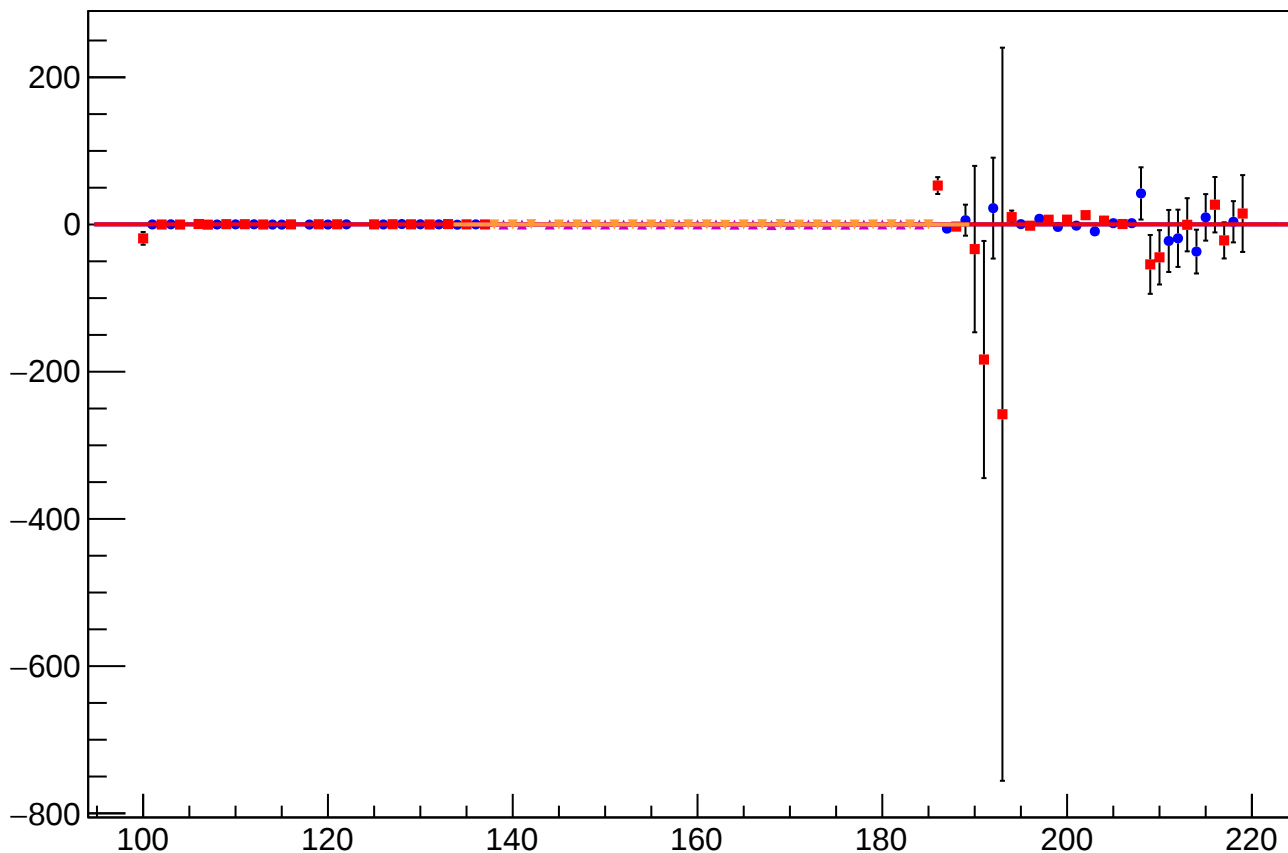
Right: -0.025 ± 0.020 χ^2/NDF : 82.3/67

In: -0.038 ± 0.015 χ^2/NDF : 71.8/54

Out: -0.073 ± 0.015 χ^2/NDF : 69.7/59

All: -0.056 ± 0.011 χ^2/NDF : 144.2/114

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.172 $\pm$ 0.053 χ^2 /NDF: 30.7/31

Left Out: 0.081 $\pm$ 0.022 χ^2 /NDF:38.4/23

Right Out: 0.236 $\pm$ 0.054 χ^2 /NDF: 61.7/35

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

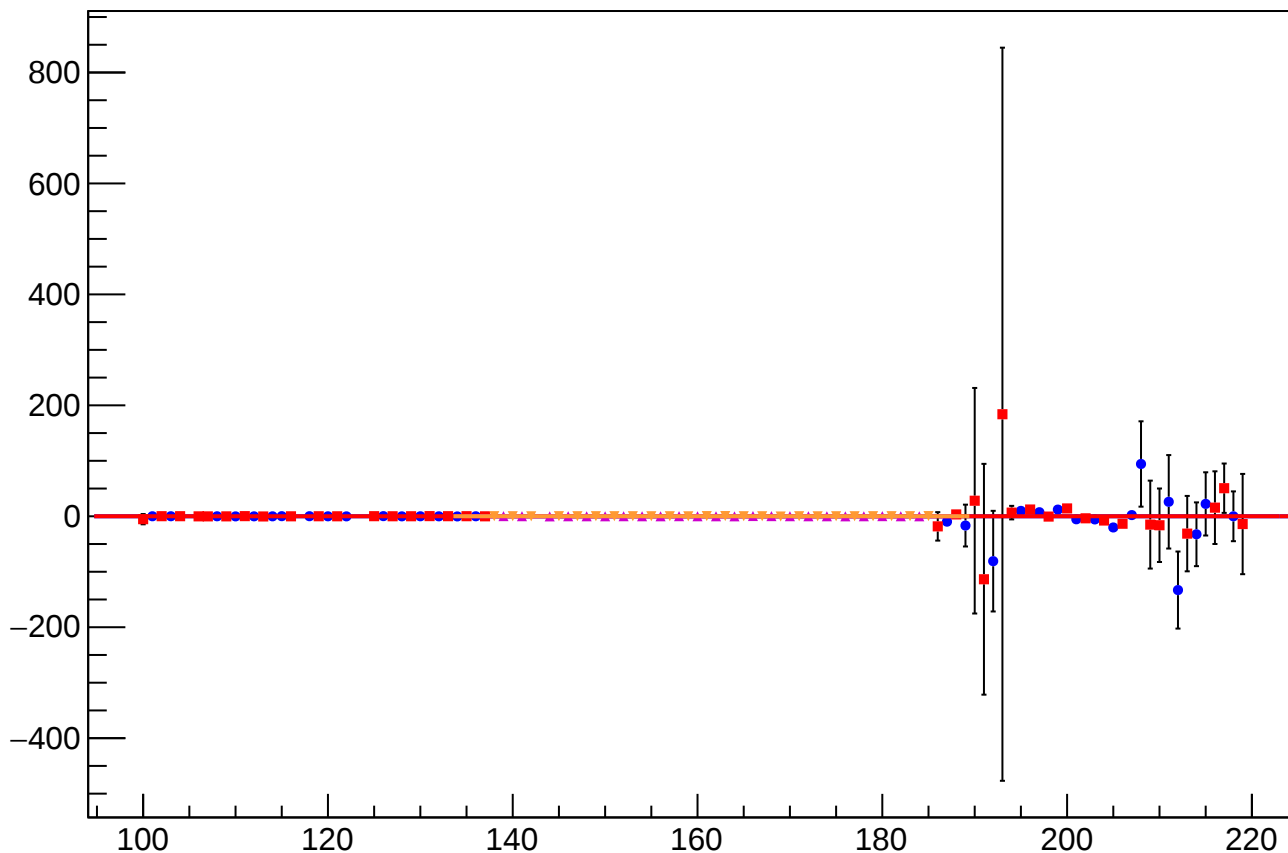
Right: 0.203 $\pm$ 0.038 χ^2 /NDF: 93.1/67

In: 0.043 $\pm$ 0.020 χ^2 /NDF:73.4/54

Out: 0.103 $\pm$ 0.020 χ^2 /NDF:107.1/59

All: 0.073 $\pm$ 0.014 χ^2 /NDF: 184.8/114

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.007 ± 0.033 χ^2/NDF : 39.2/31

Left Out: 0.105 ± 0.020 χ^2/NDF : 29.5/23

Right Out: 0.057 ± 0.034 χ^2/NDF : 36.3/35

Left In: 0.069 ± 0.020 χ^2/NDF : 31.3/22

Left: 0.088 ± 0.014 χ^2/NDF : 62.5/46

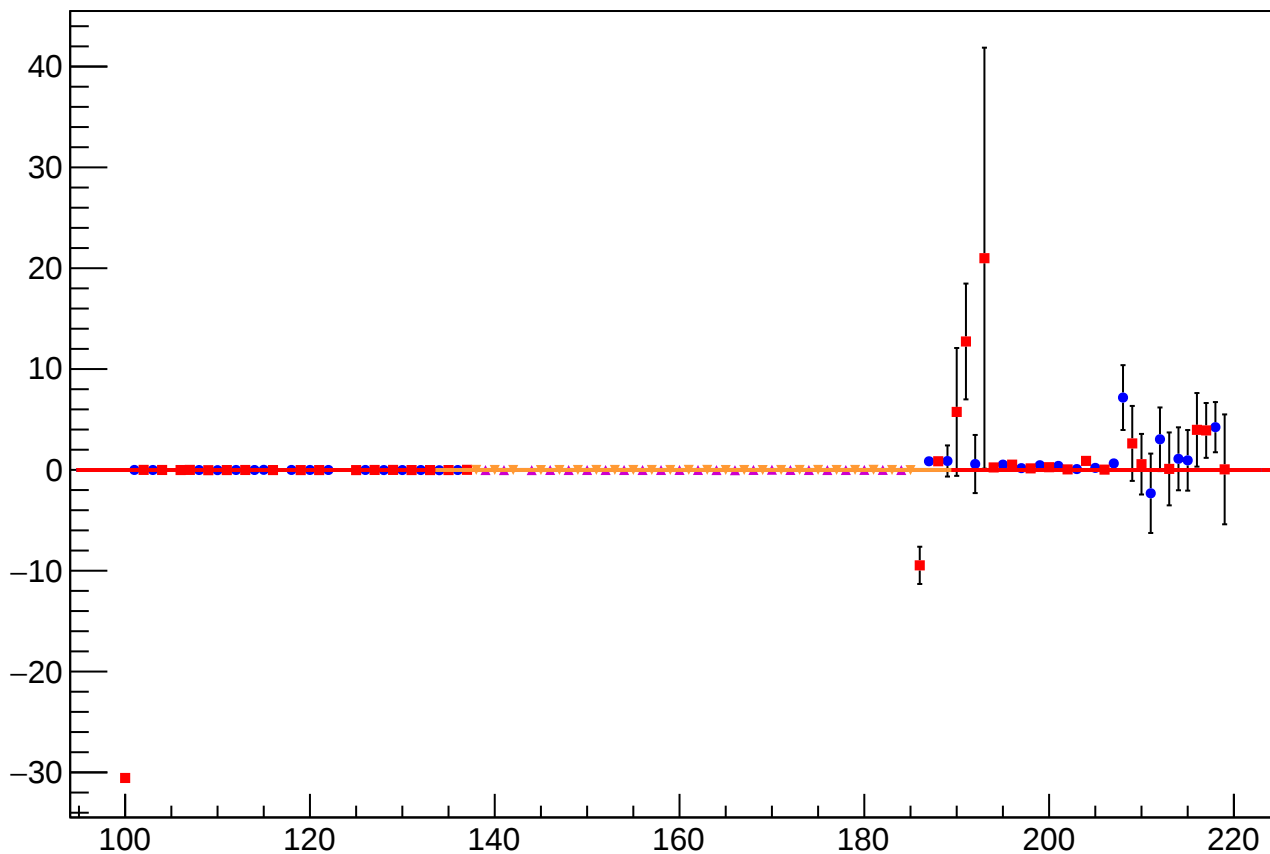
Right: 0.024 ± 0.024 χ^2/NDF : 77.3/67

In: 0.049 ± 0.017 χ^2/NDF : 74.4/54

Out: 0.093 ± 0.017 χ^2/NDF : 67.2/59

All: 0.071 ± 0.012 χ^2/NDF : 145.1/114

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 ± 0.002 χ^2/NDF : 51.0/31

Left Out: -0.008 ± 0.001 χ^2/NDF : 30.1/23

Right Out: -0.012 ± 0.002 χ^2/NDF : 11958.1/35

Left In: -0.009 ± 0.001 χ^2/NDF : 40.8/22

Left: -0.008 ± 0.001 χ^2/NDF : 71.4/46

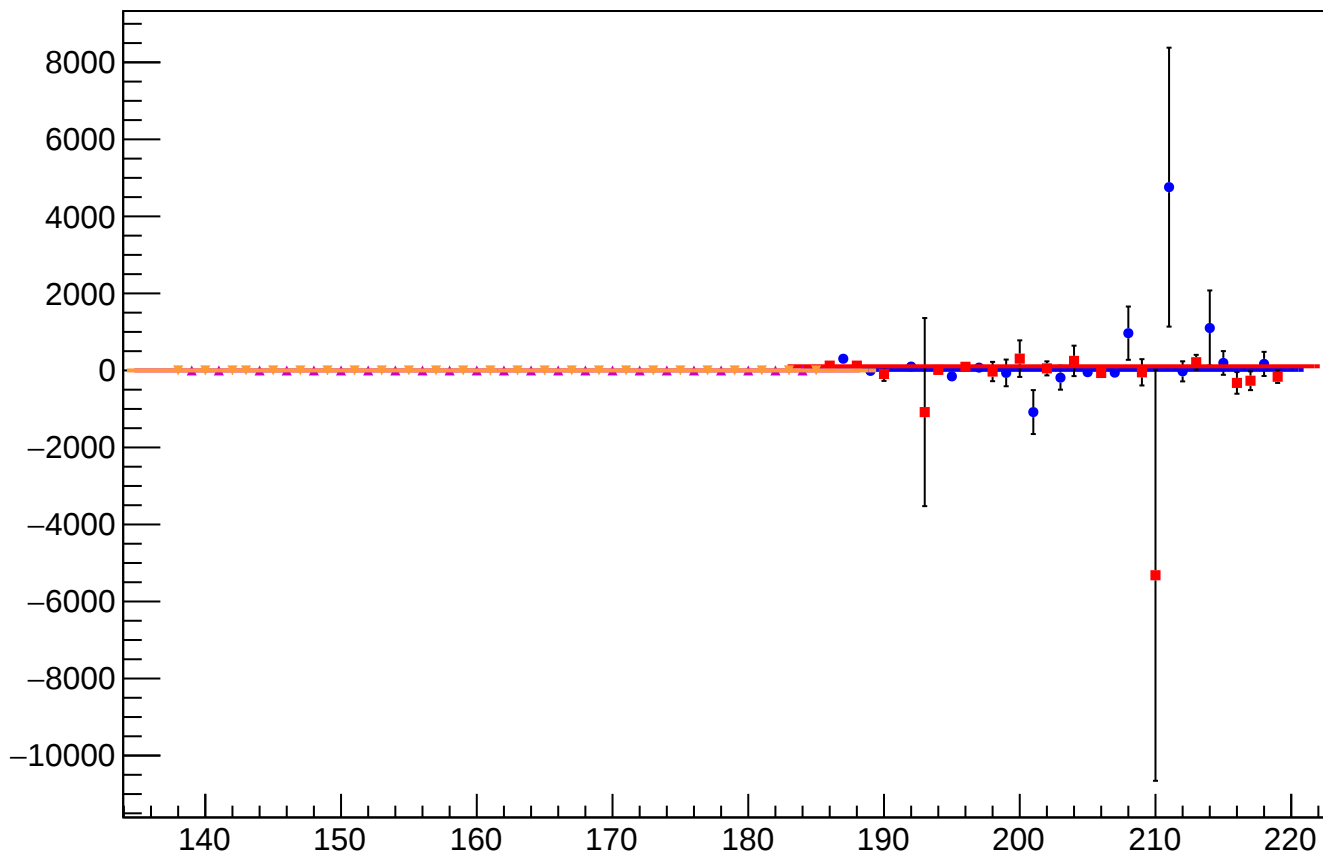
Right: -0.012 ± 0.001 χ^2/NDF : 12009.2/67

In: -0.009 ± 0.001 χ^2/NDF : 94.0/54

Out: -0.009 ± 0.001 χ^2/NDF : 11992.0/59

All: -0.009 ± 0.001 χ^2/NDF : 12086.3/114

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.875 $\pm$ 25.721 χ^2 /NDF: 25.8/15

Left Out: 0.017 $\pm$ 0.027 χ^2 /NDF:30.9/24

Right Out: 107.475 $\pm$ 15.970 χ^2 /NDF: 16.5/16

Left In: 0.002 $\pm$ 0.028 χ^2 /NDF:29.0/22

Left: 0.010 $\pm$ 0.019 χ^2 /NDF: 60.1/47

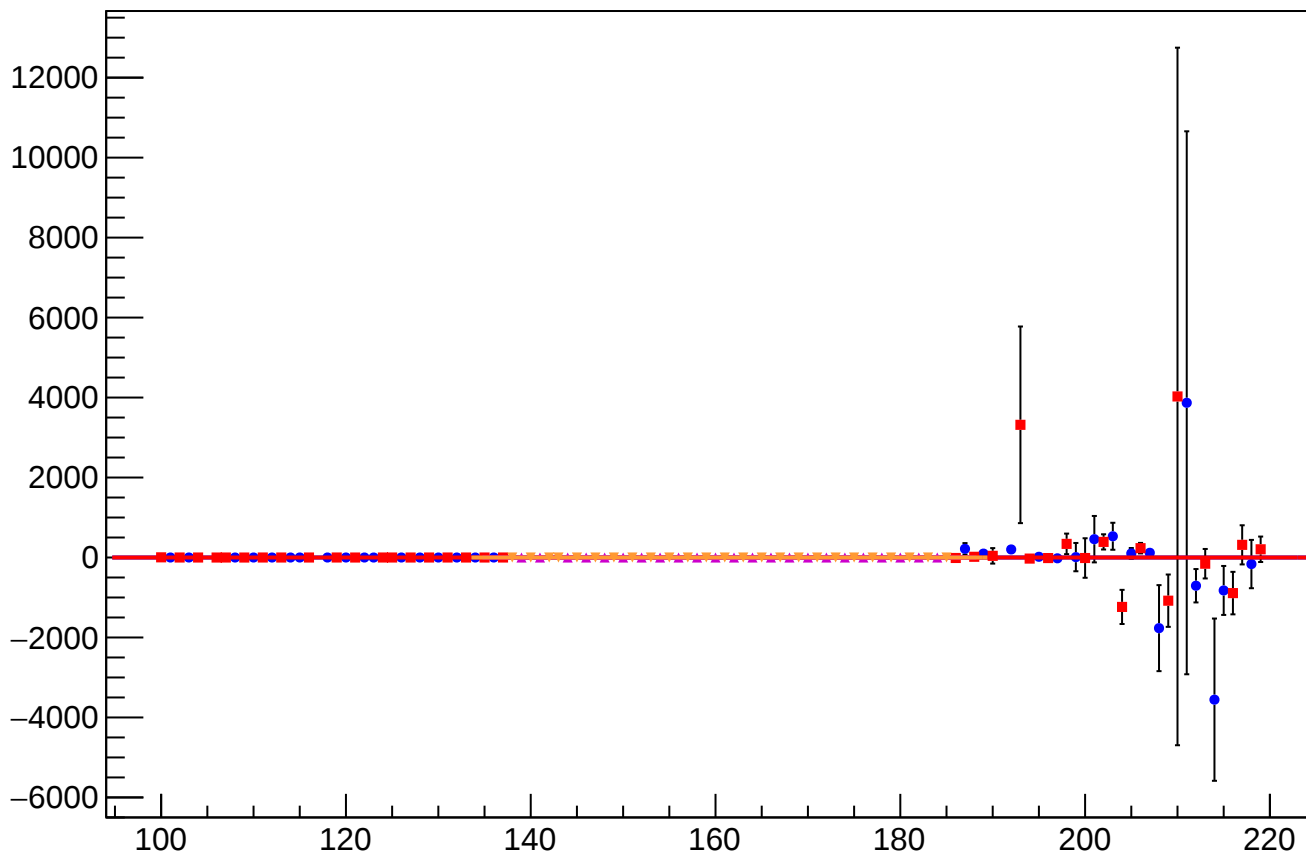
Right: 81.710 $\pm$ 13.567 χ^2 /NDF: 51.6/32

In: 0.002 $\pm$ 0.028 χ^2 /NDF:55.1/38

Out: 0.018 $\pm$ 0.027 χ^2 /NDF:92.7/41

All: 0.010 $\pm$ 0.019 χ^2 /NDF: 148.0/80

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.022 ± 0.037 $\chi^2/\text{NDF}: 49.9/32$

Left Out: -0.060 ± 0.021 $\chi^2/\text{NDF}: 24.6/24$

Right Out: -0.120 ± 0.039 $\chi^2/\text{NDF}: 45.0/35$

Left In: -0.071 ± 0.022 $\chi^2/\text{NDF}: 49.0/22$

Left: -0.065 ± 0.015 $\chi^2/\text{NDF}: 73.7/47$

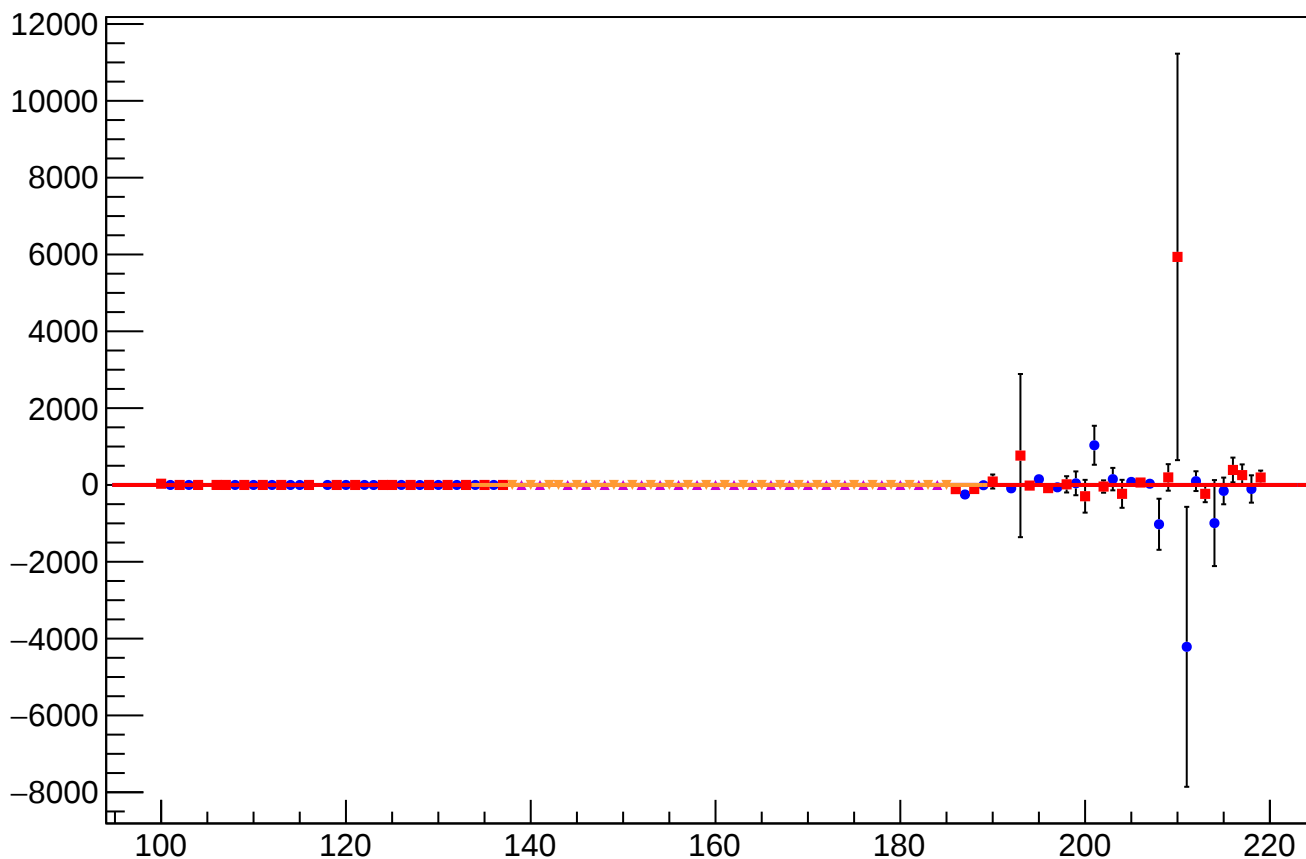
Right: -0.068 ± 0.027 $\chi^2/\text{NDF}: 98.2/68$

In: -0.058 ± 0.019 $\chi^2/\text{NDF}: 100.1/55$

Out: -0.073 ± 0.019 $\chi^2/\text{NDF}: 71.5/60$

All: -0.066 ± 0.013 $\chi^2/\text{NDF}: 172.0/116$

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.135 ± 0.067 $\chi^2/\text{NDF}: 51.1/32$

Left Out: -0.018 ± 0.027 $\chi^2/\text{NDF}: 29.0/24$

Right Out: -0.167 ± 0.071 $\chi^2/\text{NDF}: 85.3/35$

Left In: -0.033 ± 0.027 $\chi^2/\text{NDF}: 28.5/22$

Left: -0.025 ± 0.019 $\chi^2/\text{NDF}: 57.6/47$

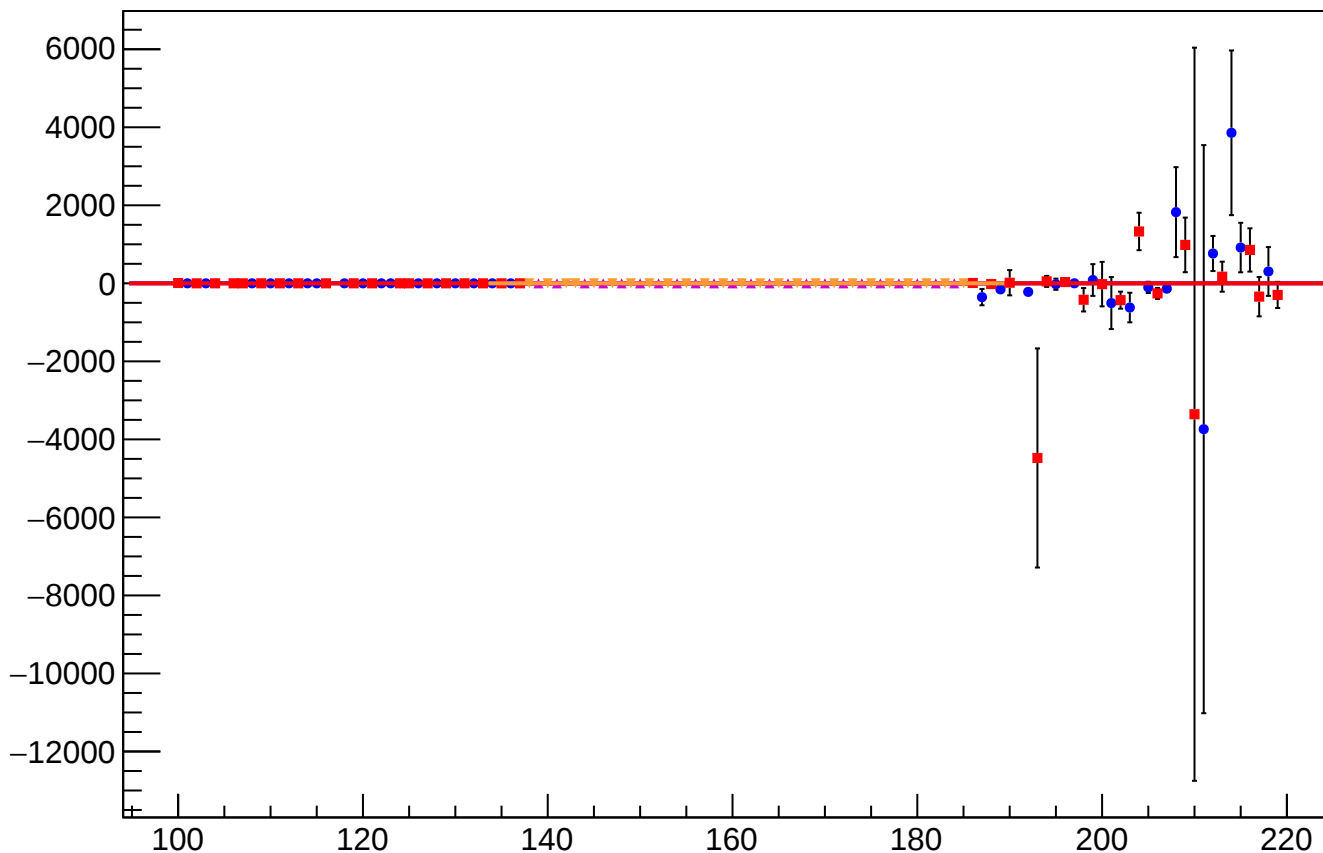
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 136.5/68$

In: -0.047 ± 0.025 $\chi^2/\text{NDF}: 81.5/55$

Out: -0.037 ± 0.025 $\chi^2/\text{NDF}: 118.1/60$

All: -0.042 ± 0.018 $\chi^2/\text{NDF}: 199.7/116$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.018 $\pm$ 0.043 χ^2 /NDF: 49.4/32

Left Out: 0.063 $\pm$ 0.024 χ^2 /NDF:24.6/24

Right Out: 0.144 $\pm$ 0.045 χ^2 /NDF: 42.6/35

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

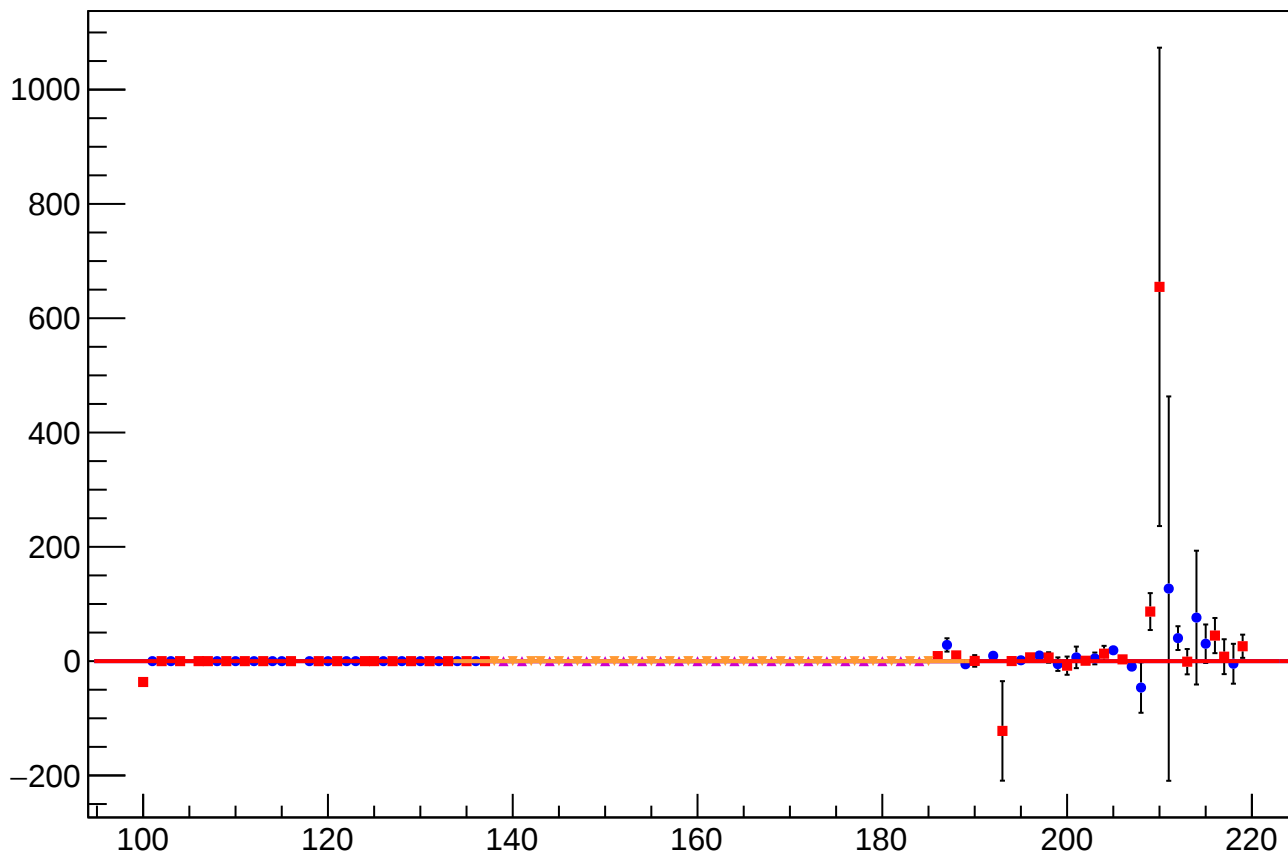
Right: 0.077 $\pm$ 0.031 χ^2 /NDF: 96.0/68

In: 0.056 $\pm$ 0.021 χ^2 /NDF:102.3/55

Out: 0.081 $\pm$ 0.021 χ^2 /NDF:69.7/60

All: 0.069 $\pm$ 0.015 χ^2 /NDF: 172.6/116

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001+/-0.002 χ^2/NDF : 69.2/32

Left Out: 0.008+/-0.001 χ^2/NDF : 26.3/24

Right Out: 0.001+/-0.002 χ^2/NDF : 10487.8/35

Left In: 0.009+/-0.001 χ^2/NDF : 15.0/22

Left: 0.009+/-0.001 χ^2/NDF : 41.4/47

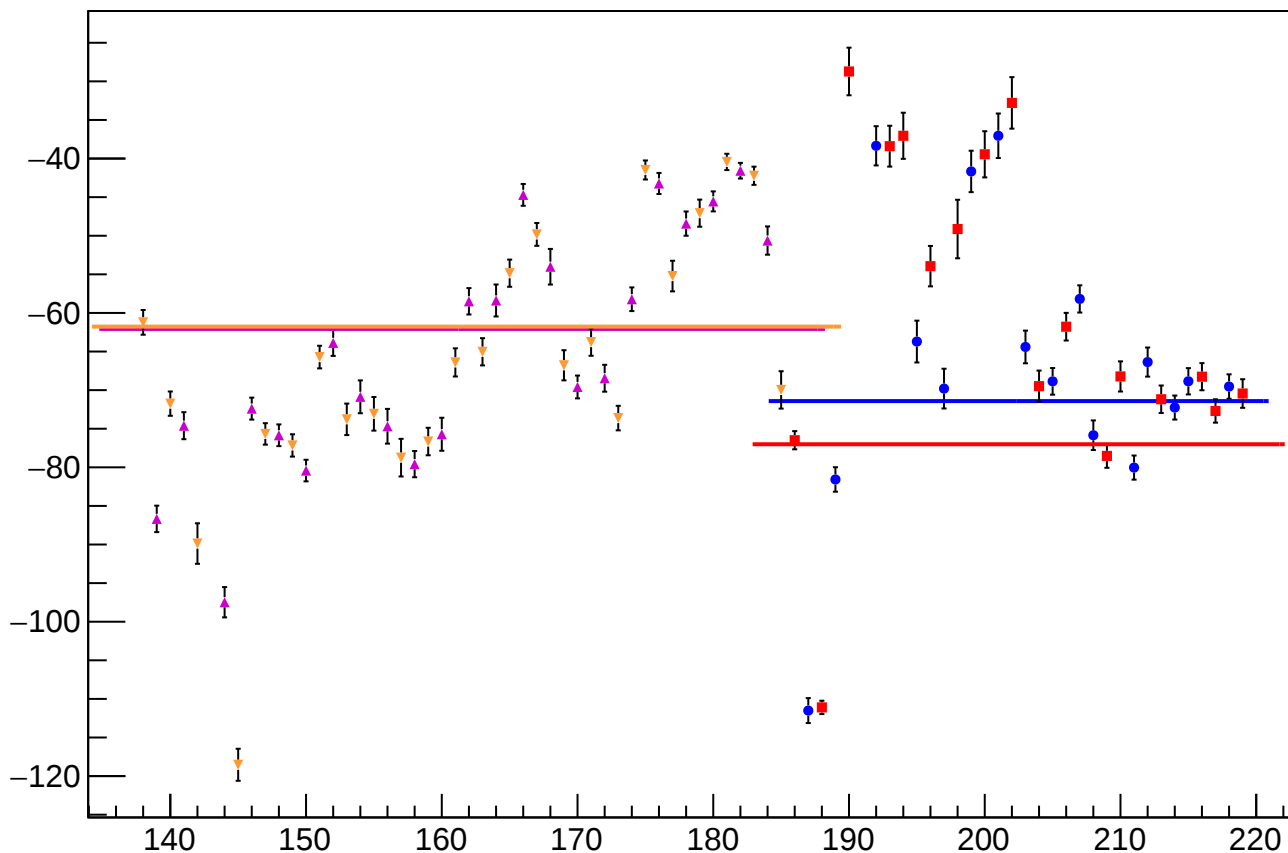
Right: 0.001+/-0.002 χ^2/NDF : 10557.0/68

In: 0.007+/-0.001 χ^2/NDF : 93.7/55

Out: 0.007+/-0.001 χ^2/NDF : 10523.1/60

All: 0.007+/-0.001 χ^2/NDF : 10616.8/116

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -71.420 $\pm$ 0.472 χ^2/NDF : 1214.8/15

Left Out: -61.771 $\pm$ 0.334 χ^2/NDF : 2504.9/23

Right Out: -77.011 $\pm$ 0.429 χ^2/NDF : 2822.7/16

Left In: -62.073 $\pm$ 0.332 χ^2/NDF : 2192.0/22

Left: -61.923 $\pm$ 0.236 χ^2/NDF : 4697.3/46

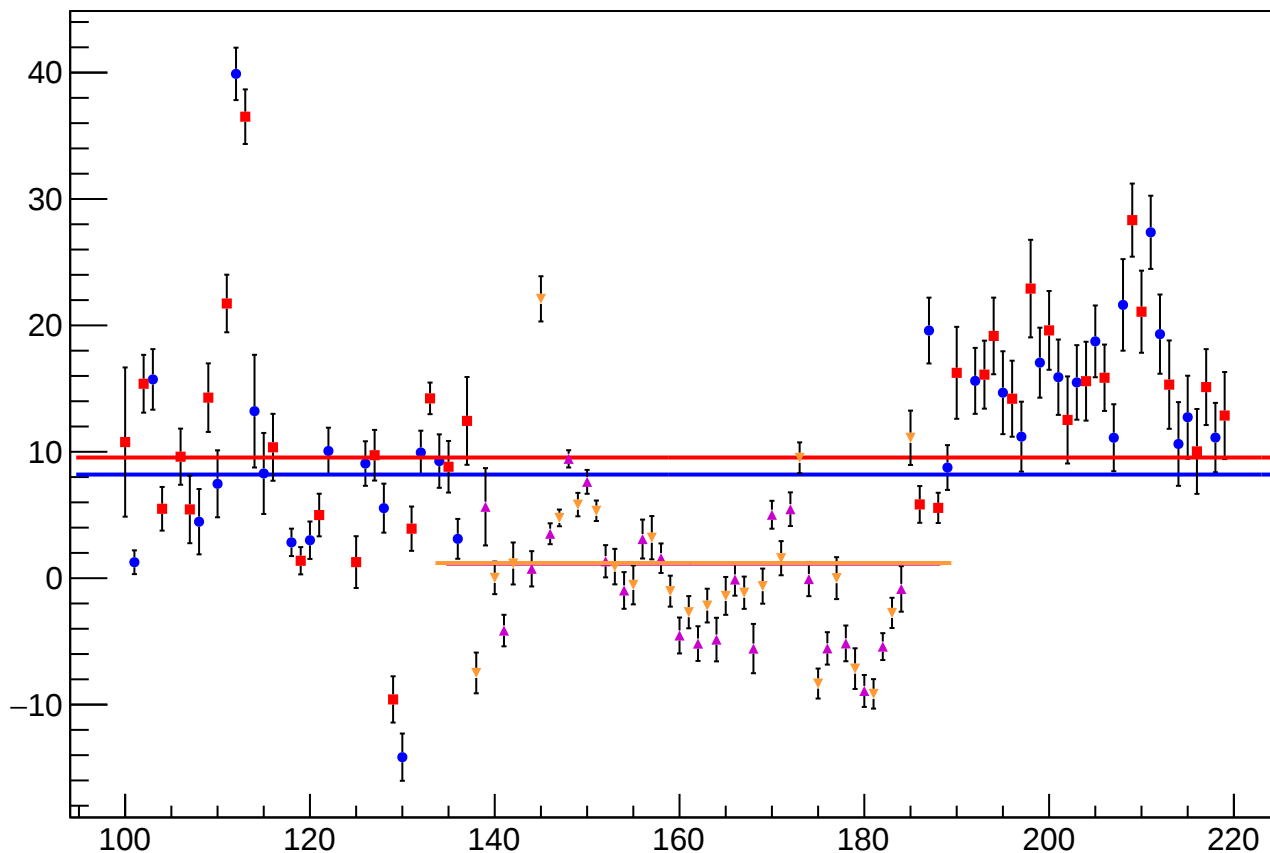
Right: -74.487 $\pm$ 0.317 χ^2/NDF : 4114.3/32

In: -65.167 $\pm$ 0.272 χ^2/NDF : 3668.6/38

Out: -67.528 $\pm$ 0.263 χ^2/NDF : 6114.6/40

All: -66.385 $\pm$ 0.189 χ^2/NDF : 9822.1/79

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.199 $\pm$ 0.365 χ^2 /NDF: 640.2/31

Left Out: 1.198 $\pm$ 0.253 χ^2 /NDF:526.3/23

Right Out: 9.547 $\pm$ 0.364 χ^2 /NDF: 551.5/34

Left In: 1.146 $\pm$ 0.255 χ^2 /NDF:462.9/22

Left: 1.172 $\pm$ 0.180 χ^2 /NDF: 989.3/46

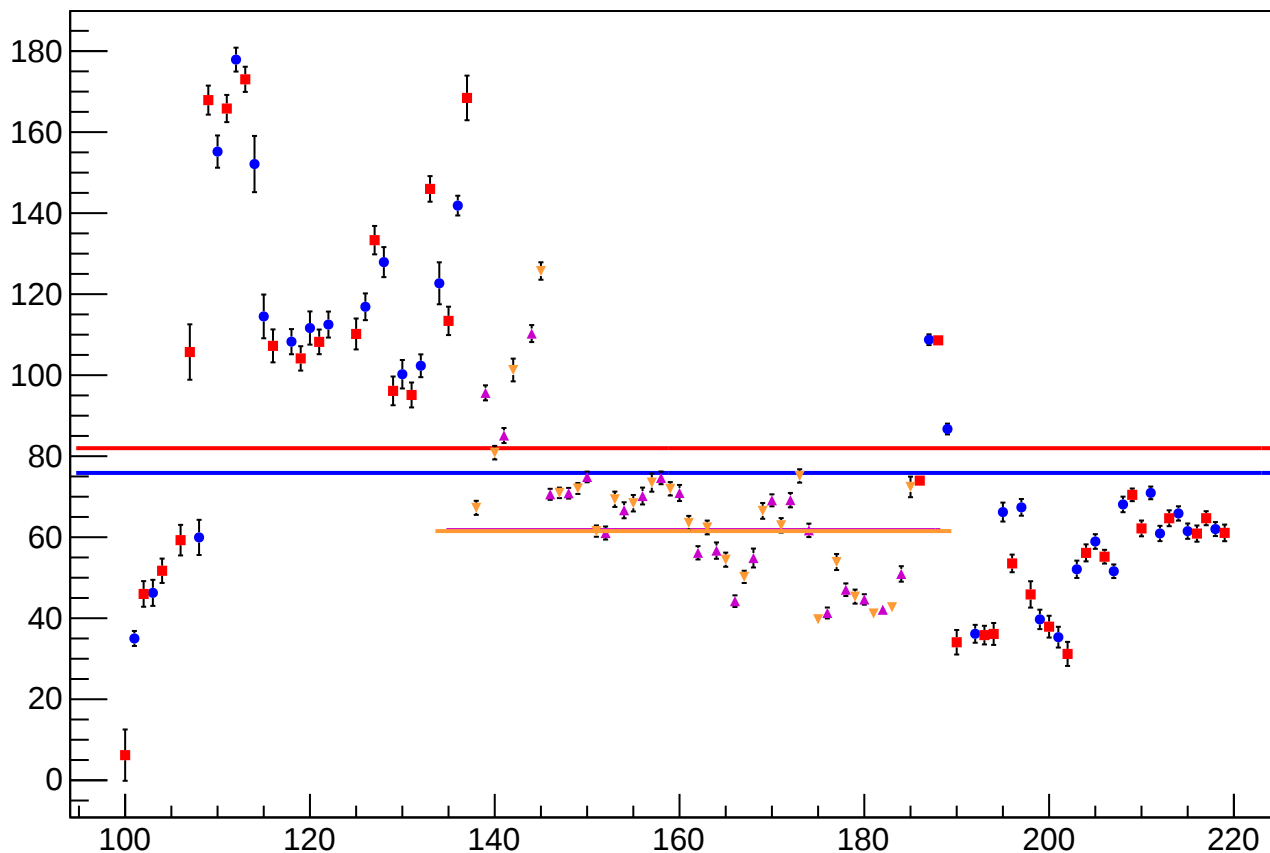
Right: 8.876 $\pm$ 0.258 χ^2 /NDF: 1198.6/66

In: 3.460 $\pm$ 0.209 χ^2 /NDF:1353.5/54

Out: 3.914 $\pm$ 0.207 χ^2 /NDF:1433.3/58

All: 3.689 $\pm$ 0.147 χ^2 /NDF: 2789.2/113

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 75.870 $\pm$ 0.397 χ^2 /NDF: 6144.2/31

Left Out: 61.512 $\pm$ 0.332 χ^2 /NDF:2606.0/23

Right Out: 81.980 $\pm$ 0.355 χ^2 /NDF: 7971.3/34

Left In: 61.762 $\pm$ 0.330 χ^2 /NDF:2418.2/22

Left: 61.638 $\pm$ 0.234 χ^2 /NDF: 5024.5/46

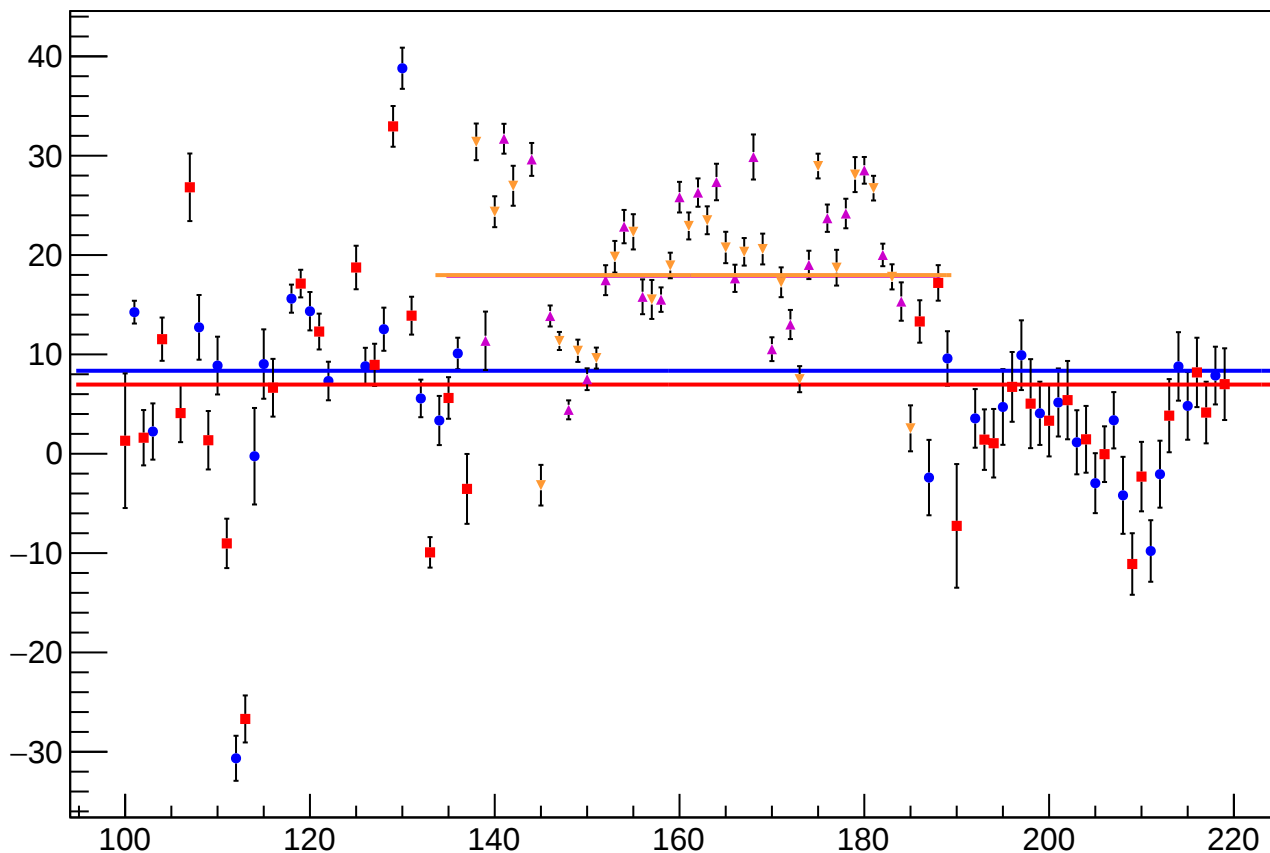
Right: 79.264 $\pm$ 0.264 χ^2 /NDF: 14247.3/66

In: 67.534 $\pm$ 0.254 χ^2 /NDF:9310.3/54

Out: 71.079 $\pm$ 0.243 χ^2 /NDF:12350.4/58

All: 69.386 $\pm$ 0.175 χ^2 /NDF: 21762.7/113

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 8.352 ± 0.424 χ^2/NDF : 687.9/31

Left Out: 17.980 ± 0.291 χ^2/NDF : 674.4/23

Right Out: 6.964 ± 0.430 χ^2/NDF : 793.5/34

Left In: 17.916 ± 0.292 χ^2/NDF : 726.5/22

Left: 17.948 ± 0.206 χ^2/NDF : 1400.9/46

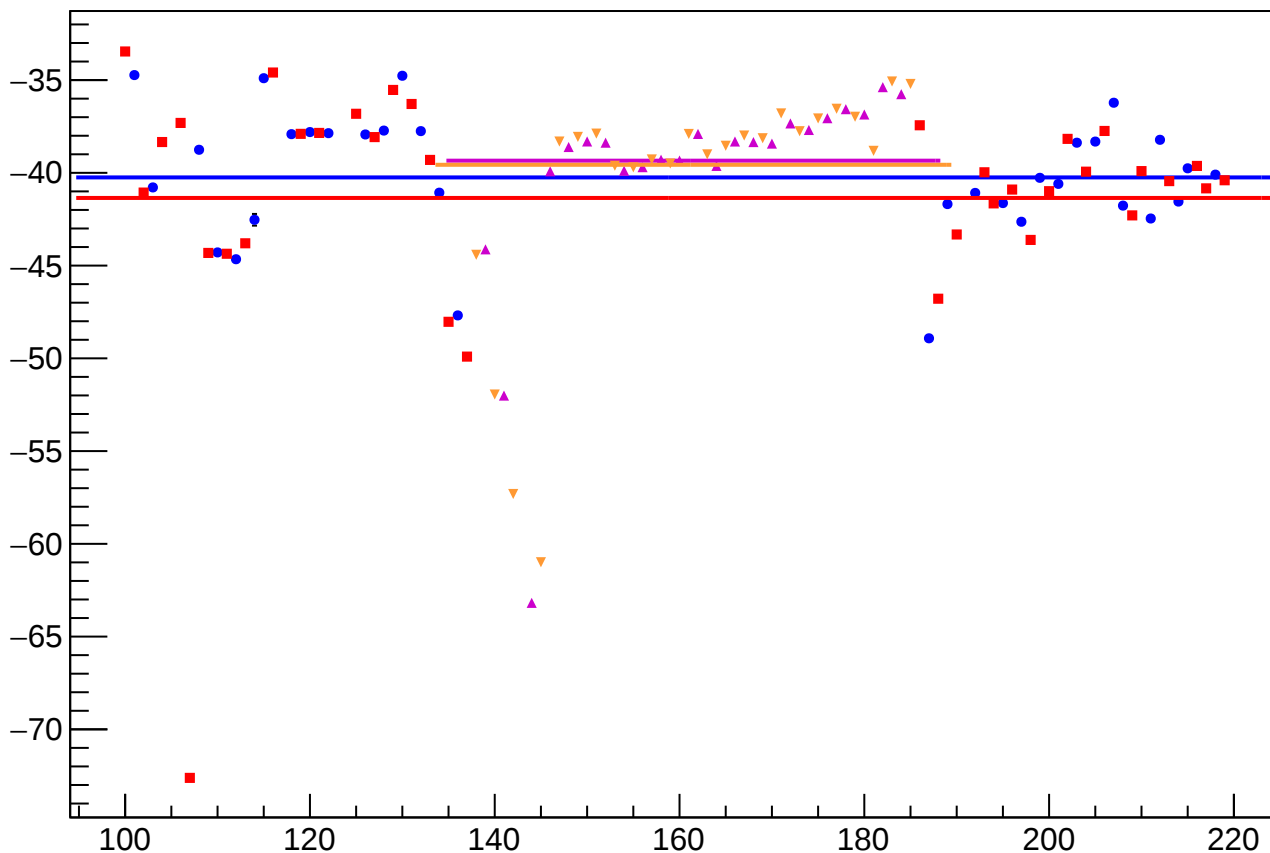
Right: 7.668 ± 0.302 χ^2/NDF : 1486.7/66

In: 14.836 ± 0.241 χ^2/NDF : 1759.1/54

Out: 14.525 ± 0.241 χ^2/NDF : 1917.7/58

All: 14.681 ± 0.170 χ^2/NDF : 3677.6/113

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.247 ± 0.021 $\chi^2/\text{NDF}: 29899.1/31$

Left Out: -39.566 ± 0.014 $\chi^2/\text{NDF}: 141198.7/23$

Right Out: -41.353 ± 0.021 $\chi^2/\text{NDF}: 68814.7/34$

Left In: -39.344 ± 0.014 $\chi^2/\text{NDF}: 116615.7/22$

Left: -39.454 ± 0.010 $\chi^2/\text{NDF}: 257946.5/46$

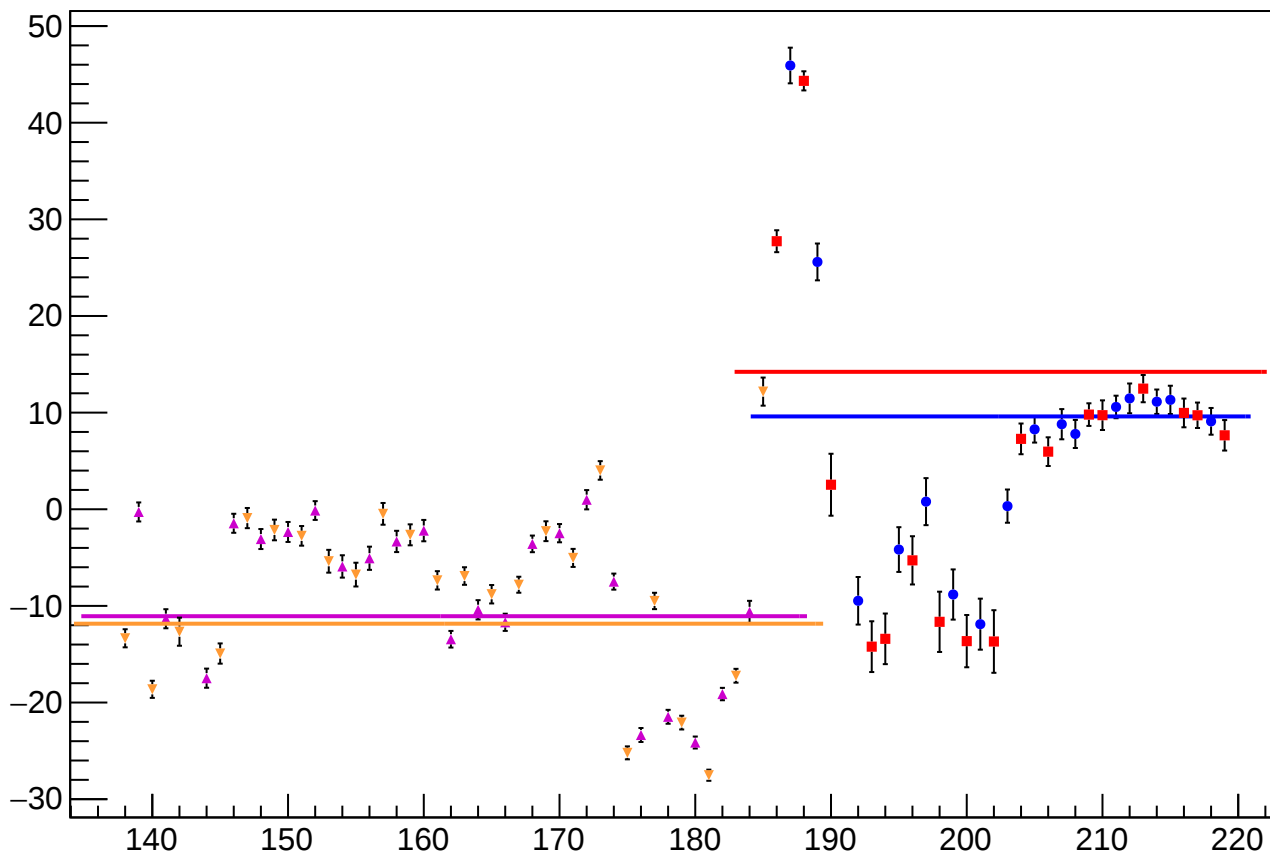
Right: -40.801 ± 0.015 $\chi^2/\text{NDF}: 100094.7/66$

In: -39.609 ± 0.011 $\chi^2/\text{NDF}: 147809.1/54$

Out: -40.100 ± 0.012 $\chi^2/\text{NDF}: 215075.1/58$

All: -39.853 ± 0.008 $\chi^2/\text{NDF}: 363802.5/113$

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 9.605 ± 0.411 χ^2/NDF : 720.1/15

Left Out: -11.842 ± 0.187 χ^2/NDF : 2739.8/23

Right Out: 14.221 ± 0.389 χ^2/NDF : 1730.4/16

Left In: -11.067 ± 0.188 χ^2/NDF : 2104.8/22

Left: -11.457 ± 0.133 χ^2/NDF : 4853.2/46

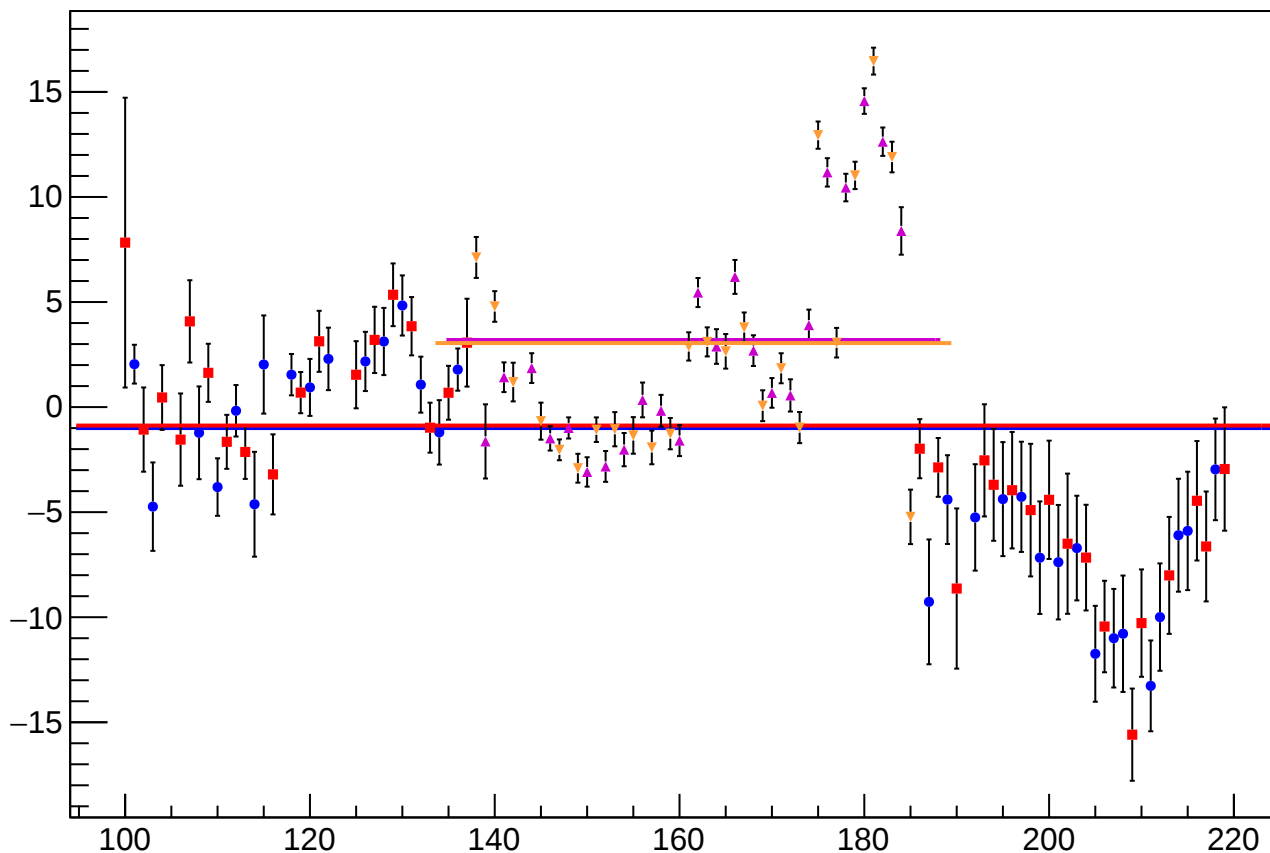
Right: 12.044 ± 0.283 χ^2/NDF : 2517.0/32

In: -7.496 ± 0.171 χ^2/NDF : 4914.1/38

Out: -6.951 ± 0.168 χ^2/NDF : 8123.1/40

All: -7.219 ± 0.120 χ^2/NDF : 13042.3/79

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.998 ± 0.301 χ^2/NDF : 211.6/31

Left Out: 3.047 ± 0.148 χ^2/NDF : 1457.2/23

Right Out: -0.879 ± 0.301 χ^2/NDF : 181.2/34

Left In: 3.194 ± 0.150 χ^2/NDF : 1295.0/22

Left: 3.119 ± 0.105 χ^2/NDF : 2752.7/46

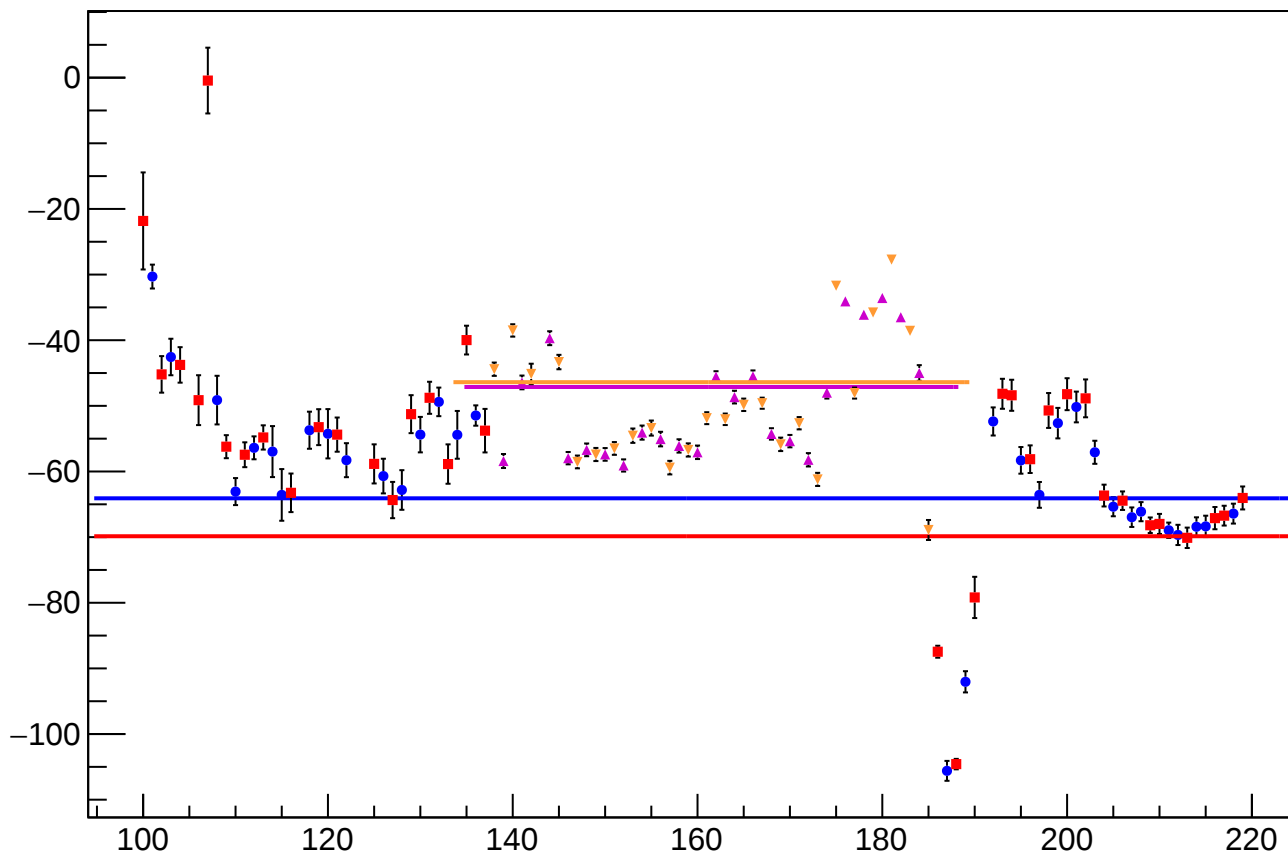
Right: -0.938 ± 0.213 χ^2/NDF : 392.9/66

In: 2.359 ± 0.134 χ^2/NDF : 1662.2/54

Out: 2.283 ± 0.133 χ^2/NDF : 1775.6/58

All: 2.321 ± 0.094 χ^2/NDF : 3437.9/113

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.086 ± 0.339 χ^2/NDF : 1821.4/31

Left Out: -46.392 ± 0.187 χ^2/NDF : 3286.7/23

Right Out: -69.865 ± 0.315 χ^2/NDF : 3752.6/34

Left In: -47.128 ± 0.187 χ^2/NDF : 2516.0/22

Left: -46.759 ± 0.132 χ^2/NDF : 5810.5/46

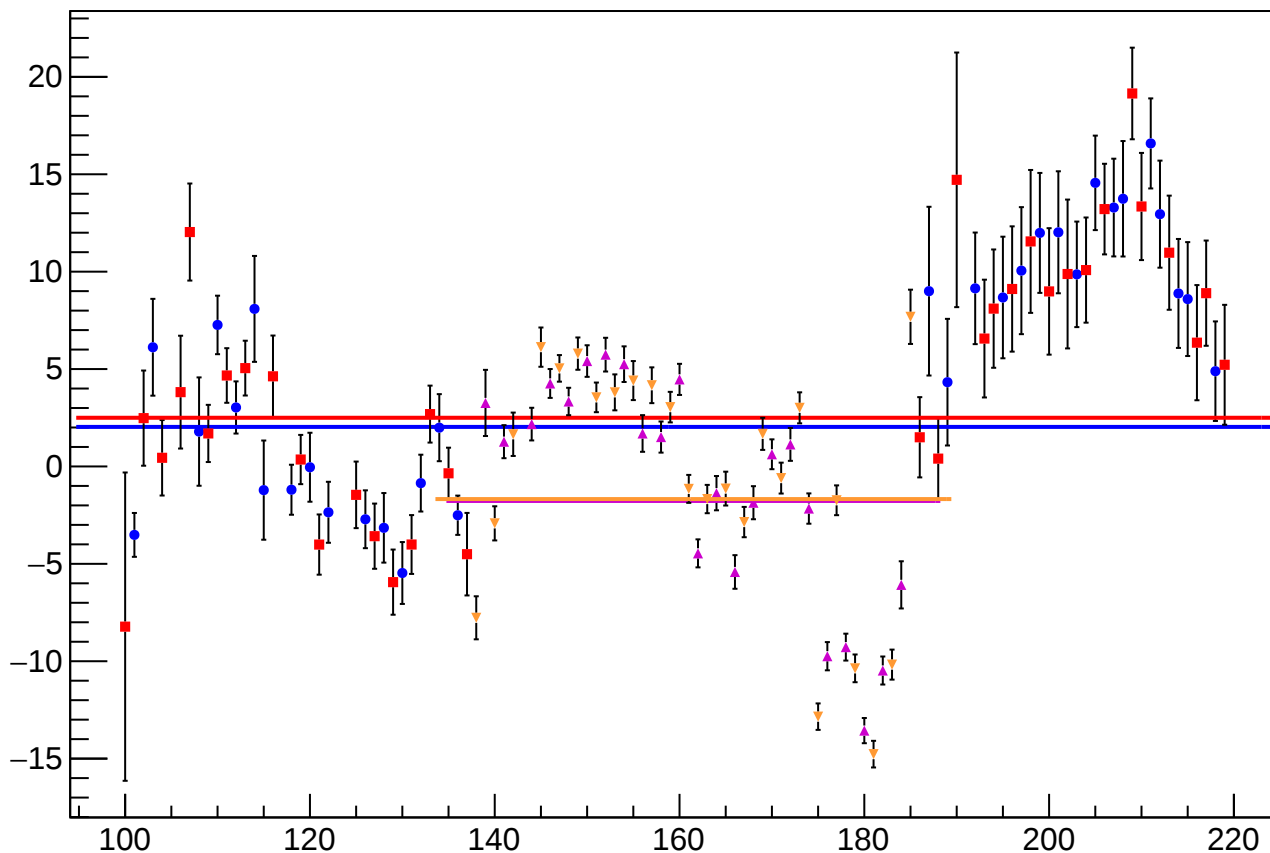
Right: -67.183 ± 0.231 χ^2/NDF : 5730.0/66

In: -51.095 ± 0.164 χ^2/NDF : 6257.4/54

Out: -52.482 ± 0.161 χ^2/NDF : 11146.1/58

All: -51.802 ± 0.115 χ^2/NDF : 17440.0/113

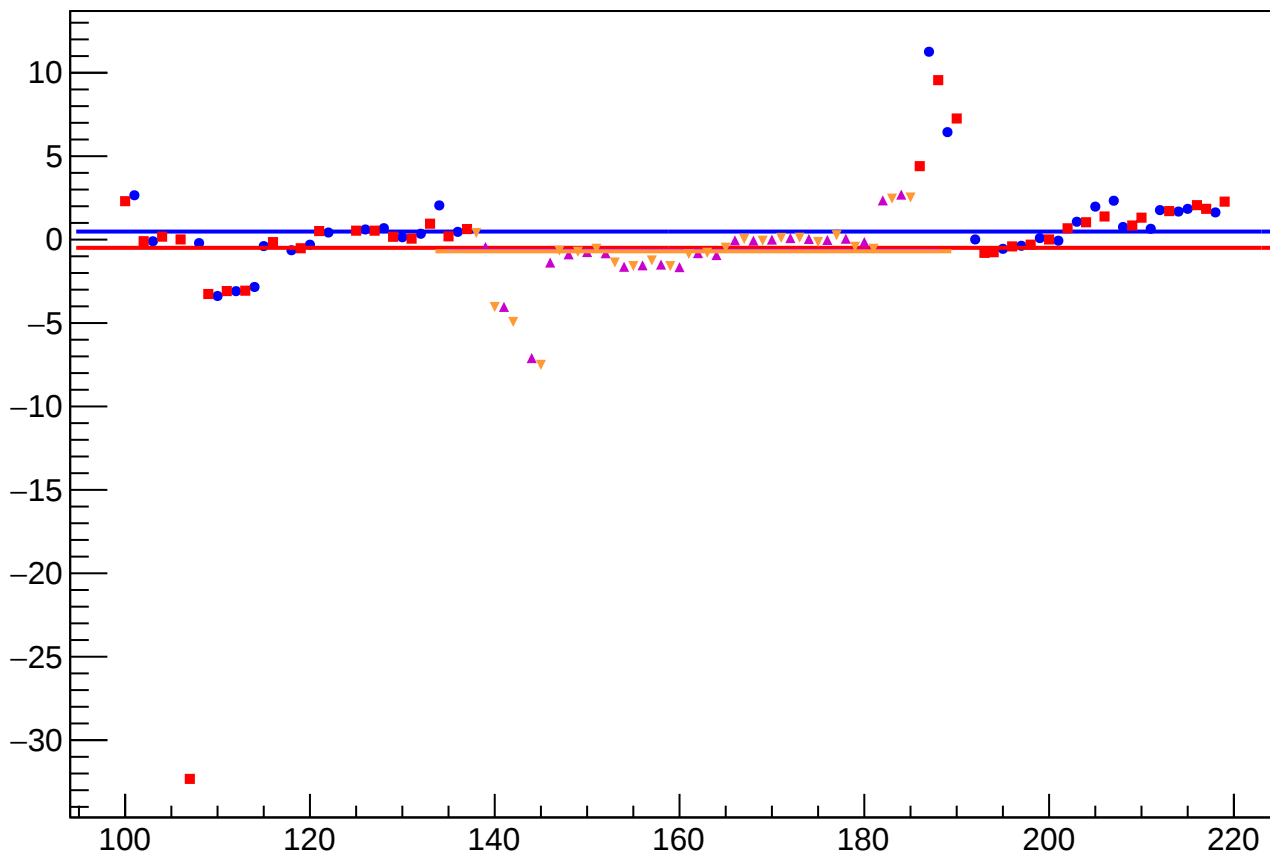
reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.030 ± 0.340 $\chi^2/\text{NDF}: 305.9/31$
 Left Out: -1.675 ± 0.167 $\chi^2/\text{NDF}: 1483.8/23$
 Right Out: 2.499 ± 0.345 $\chi^2/\text{NDF}: 262.9/34$
 Left In: -1.771 ± 0.169 $\chi^2/\text{NDF}: 1251.3/22$

Left: -1.723 ± 0.119 $\chi^2/\text{NDF}: 2735.2/46$
 Right: 2.261 ± 0.242 $\chi^2/\text{NDF}: 569.7/66$
 In: -1.020 ± 0.151 $\chi^2/\text{NDF}: 1657.2/54$
 Out: -0.883 ± 0.150 $\chi^2/\text{NDF}: 1865.2/58$
 All: -0.951 ± 0.107 $\chi^2/\text{NDF}: 3522.8/113$

reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.483 ± 0.017 χ^2/NDF : 10291.8/31

Left Out: -0.702 ± 0.008 χ^2/NDF : 53834.9/23

Right Out: -0.492 ± 0.017 χ^2/NDF : 94725.6/34

Left In: -0.644 ± 0.008 χ^2/NDF : 44169.2/22

Left: -0.673 ± 0.005 χ^2/NDF : 98032.6/46

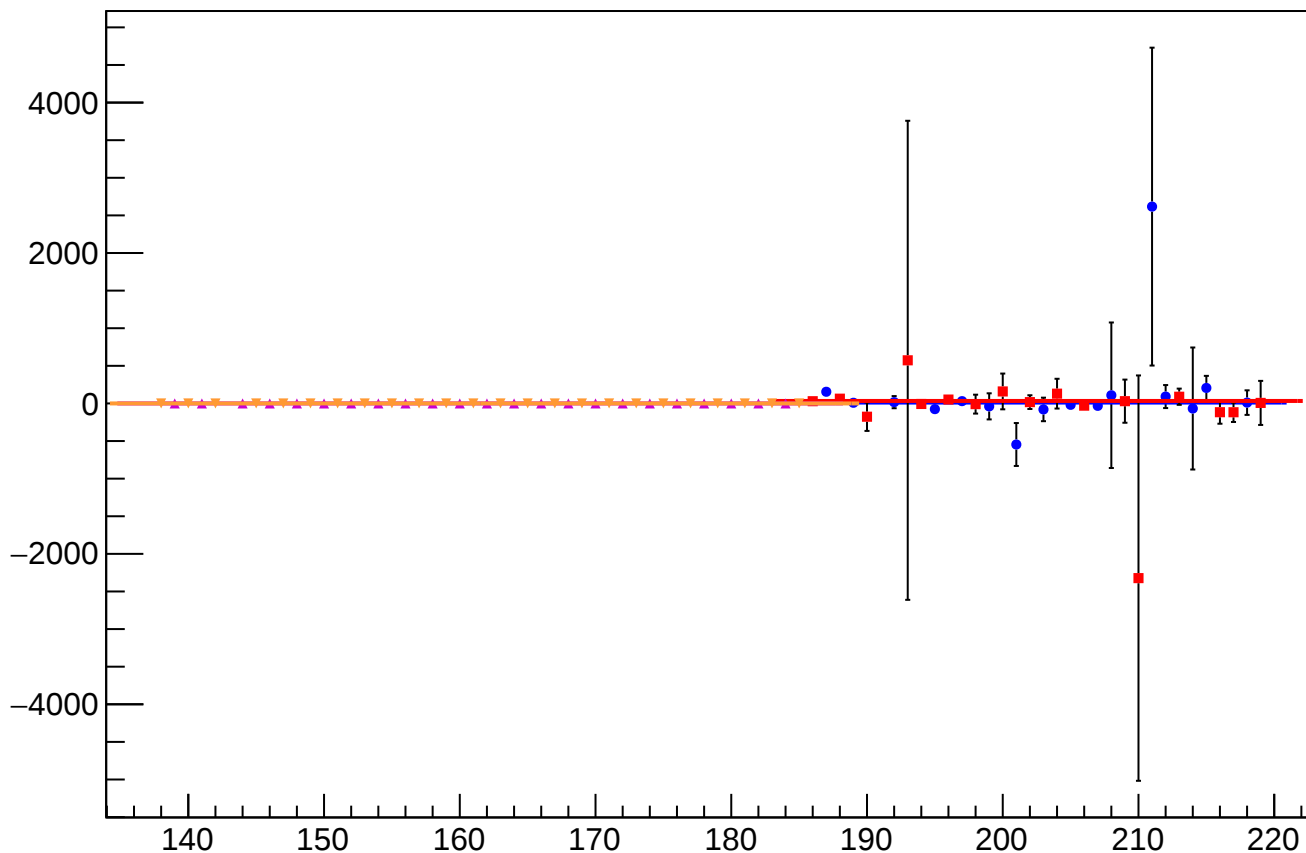
Right: -0.002 ± 0.012 χ^2/NDF : 106629.4/66

In: -0.456 ± 0.007 χ^2/NDF : 58067.8/54

Out: -0.667 ± 0.007 χ^2/NDF : 148684.2/58

All: -0.562 ± 0.005 χ^2/NDF : 207210.4/113

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.654 $\pm$ 15.007 χ^2 /NDF: 22.7/15

Left Out: -0.037 $\pm$ 0.018 χ^2 /NDF: 35.4/23

Right Out: 32.944 $\pm$ 9.582 χ^2 /NDF: 9.9/16

Left In: -0.010 $\pm$ 0.018 χ^2 /NDF: 35.1/22

Left: -0.024 $\pm$ 0.013 χ^2 /NDF: 71.7/46

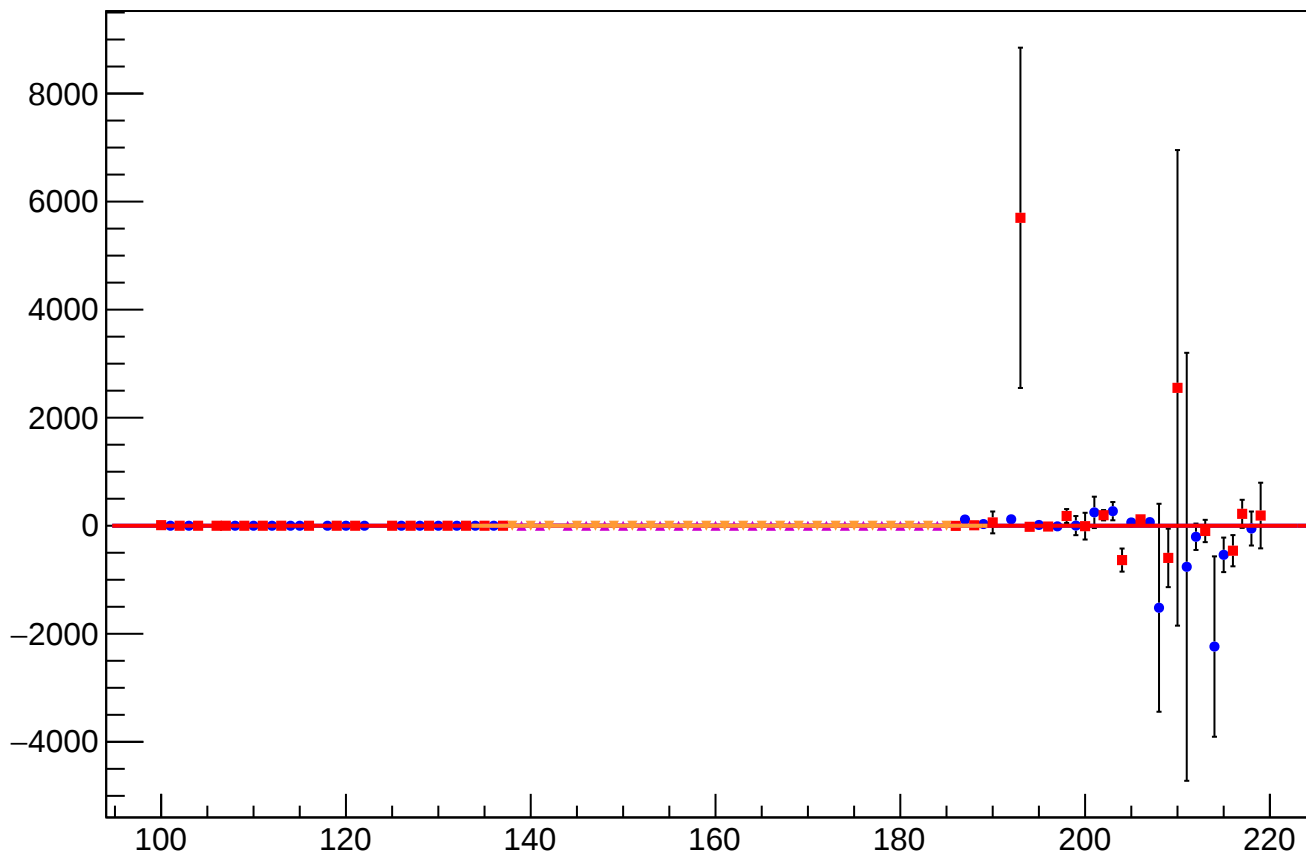
Right: 26.778 $\pm$ 8.076 χ^2 /NDF: 34.0/32

In: -0.010 $\pm$ 0.018 χ^2 /NDF: 58.4/38

Out: -0.037 $\pm$ 0.018 χ^2 /NDF: 57.2/40

All: -0.024 $\pm$ 0.013 χ^2 /NDF: 116.7/79

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.023 χ^2/NDF : 29.5/31

Left Out: -0.073 ± 0.014 χ^2/NDF : 27.8/23

Right Out: -0.088 ± 0.025 χ^2/NDF : 39.9/34

Left In: -0.064 ± 0.014 χ^2/NDF : 41.1/22

Left: -0.068 ± 0.010 χ^2/NDF : 69.1/46

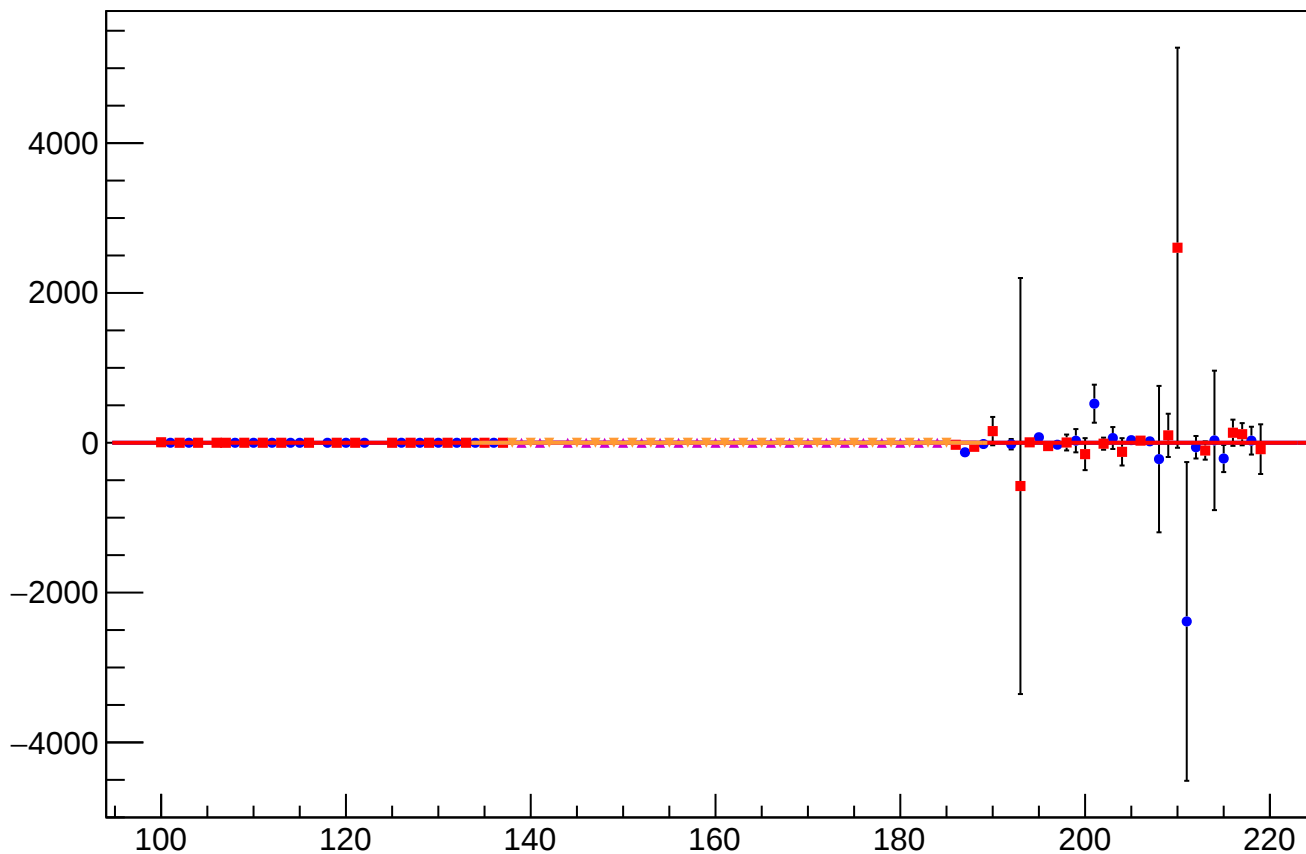
Right: -0.048 ± 0.017 χ^2/NDF : 74.2/66

In: -0.050 ± 0.012 χ^2/NDF : 74.0/54

Out: -0.076 ± 0.012 χ^2/NDF : 68.0/58

All: -0.063 ± 0.009 χ^2/NDF : 144.3/113

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.016+/-0.043 χ^2/NDF : 33.0/31

Left Out: 0.035+/-0.018 χ^2/NDF :32.2/23

Right Out: 0.031+/-0.045 χ^2/NDF : 33.7/34

Left In: -0.009+/-0.018 χ^2/NDF :36.8/22

Left: 0.013+/-0.013 χ^2/NDF : 72.0/46

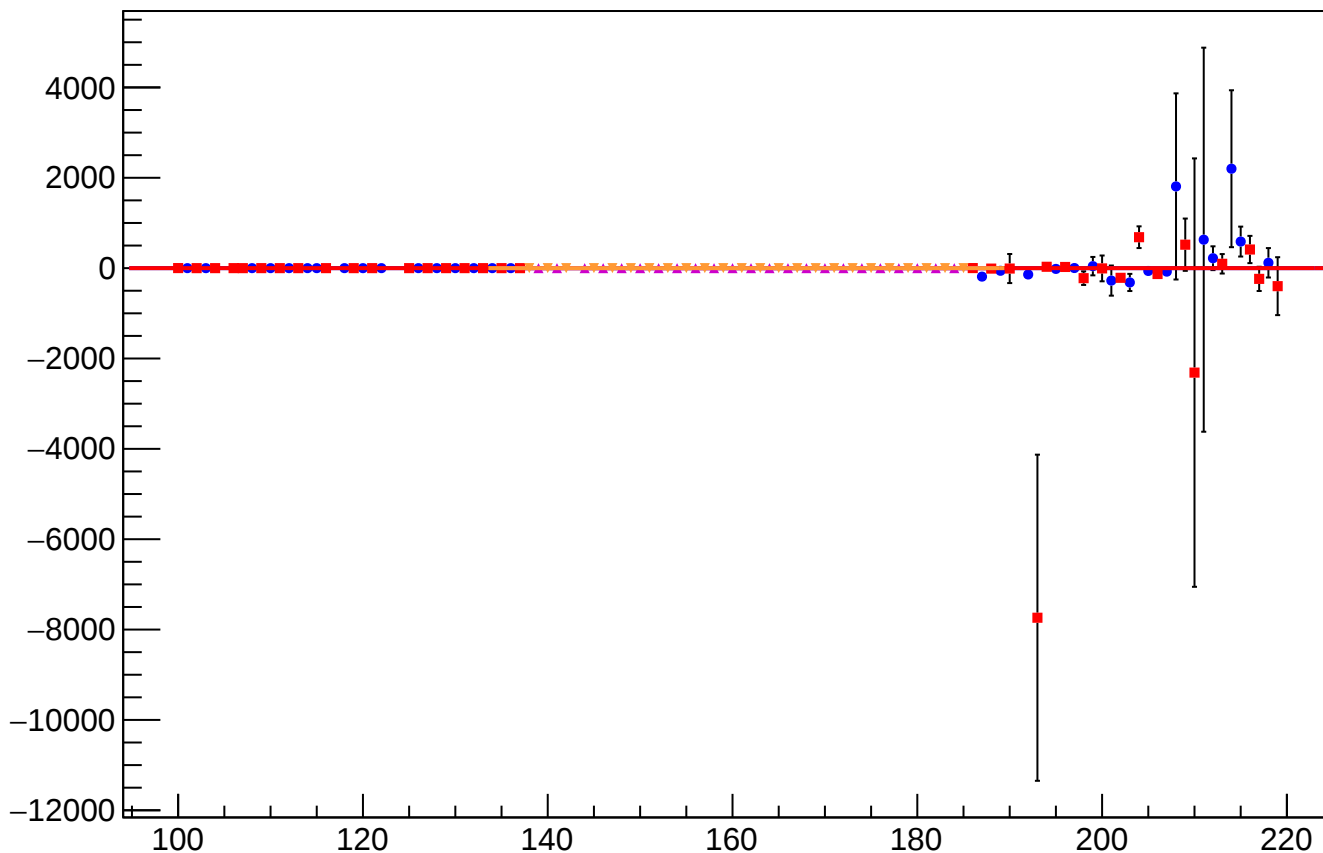
Right: 0.023+/-0.031 χ^2/NDF : 66.7/66

In: -0.005+/-0.017 χ^2/NDF :70.1/54

Out: 0.035+/-0.017 χ^2/NDF :65.9/58

All: 0.015+/-0.012 χ^2/NDF : 138.8/113

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.027 χ^2/NDF : 31.1/31

Left Out: 0.086+/-0.016 χ^2/NDF : 27.7/23

Right Out: 0.105+/-0.029 χ^2/NDF : 35.0/34

Left In: 0.070+/-0.016 χ^2/NDF : 44.8/22

Left: 0.078+/-0.011 χ^2/NDF : 73.1/46

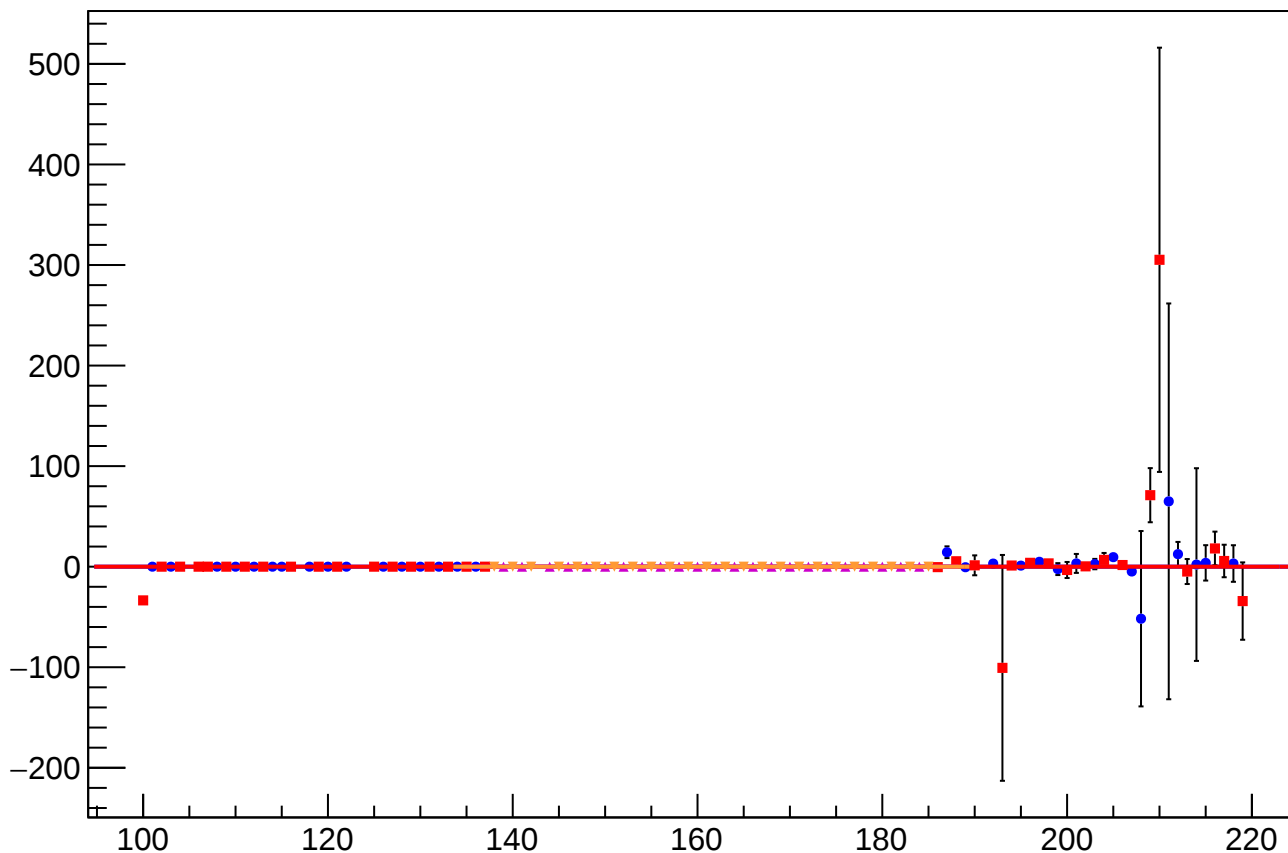
Right: 0.054+/-0.020 χ^2/NDF : 72.1/66

In: 0.053+/-0.014 χ^2/NDF : 79.7/54

Out: 0.091+/-0.014 χ^2/NDF : 63.0/58

All: 0.072+/-0.010 χ^2/NDF : 146.3/113

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 47.8/31

Left Out: 0.000 ± 0.001 χ^2/NDF : 23.6/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 26532.9/34

Left In: 0.000 ± 0.001 χ^2/NDF : 22.3/22

Left: 0.000 ± 0.001 χ^2/NDF : 45.9/46

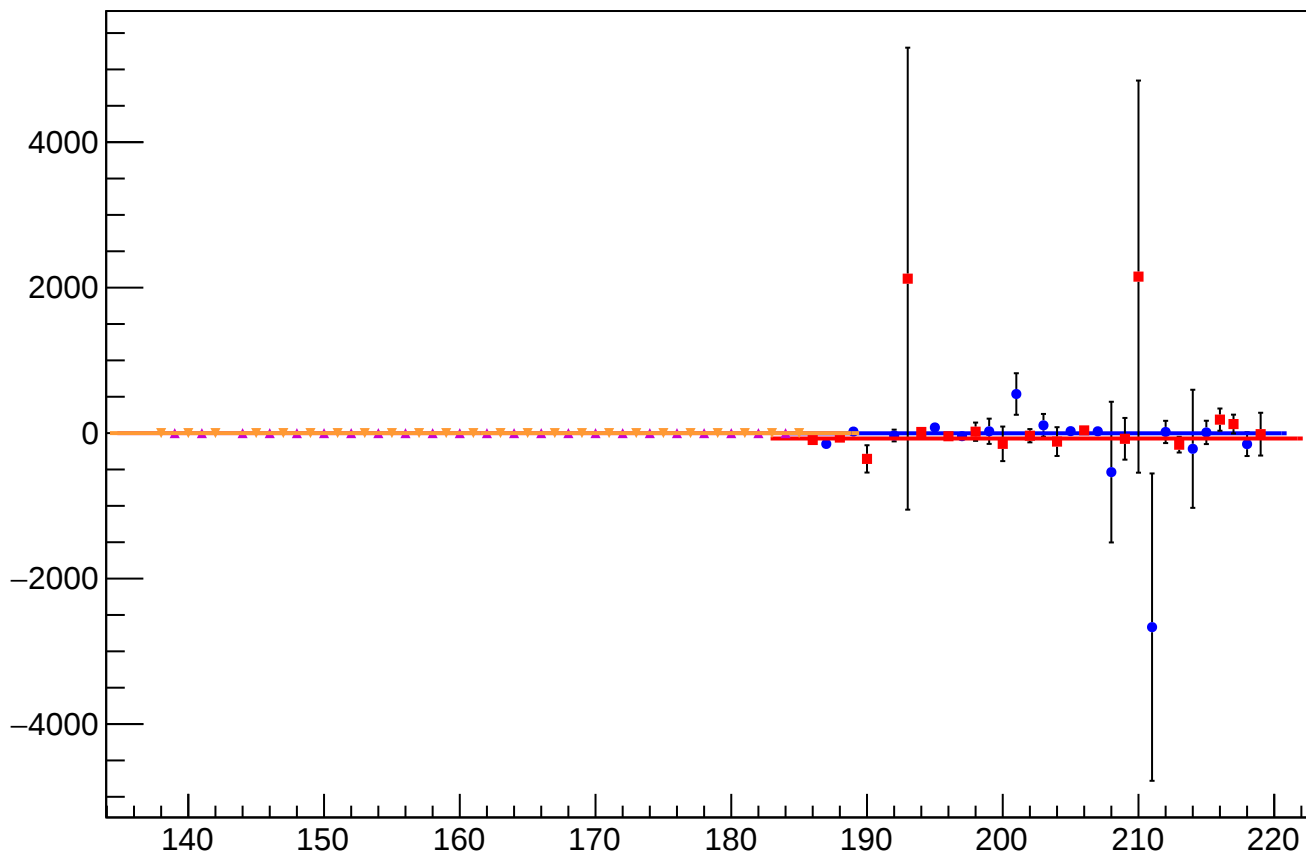
Right: -0.006 ± 0.001 χ^2/NDF : 26580.8/66

In: -0.001 ± 0.001 χ^2/NDF : 81.9/54

Out: -0.001 ± 0.001 χ^2/NDF : 26571.6/58

All: -0.001 ± 0.000 χ^2/NDF : 26653.5/113

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.432 ± 15.002 $\chi^2/\text{NDF}: 22.7/15$

Left Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 37.3/23$

Right Out: -74.001 ± 9.584 $\chi^2/\text{NDF}: 21.9/16$

Left In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 35.1/22$

Left: -0.031 ± 0.013 $\chi^2/\text{NDF}: 75.3/46$

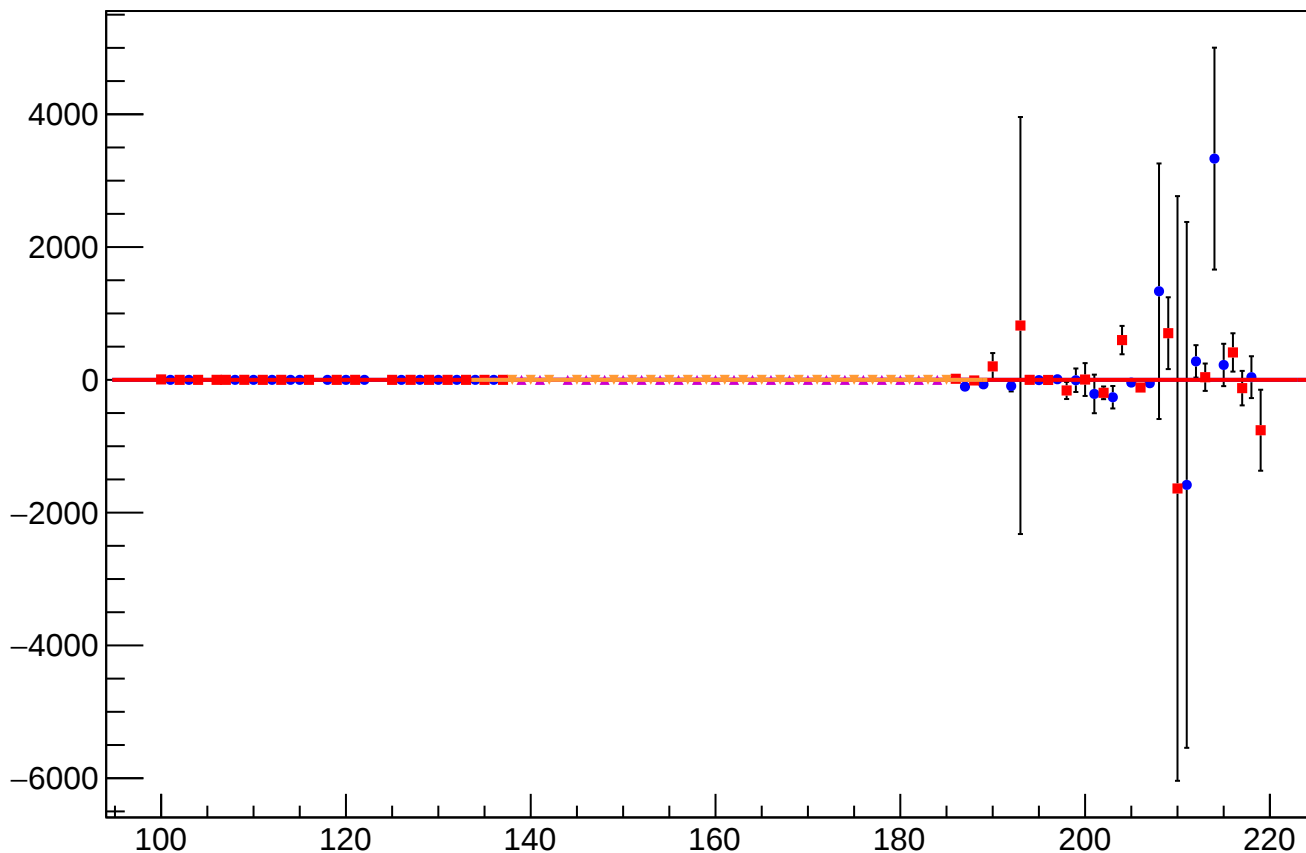
Right: -53.259 ± 8.077 $\chi^2/\text{NDF}: 60.8/32$

In: -0.009 ± 0.018 $\chi^2/\text{NDF}: 57.8/38$

Out: -0.052 ± 0.018 $\chi^2/\text{NDF}: 118.8/40$

All: -0.031 ± 0.013 $\chi^2/\text{NDF}: 179.5/79$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.023 χ^2 /NDF: 43.7/31

Left Out: -0.011 $\pm$ 0.014 χ^2 /NDF: 29.6/23

Right Out: 0.037 $\pm$ 0.025 χ^2 /NDF: 53.4/34

Left In: 0.005 $\pm$ 0.014 χ^2 /NDF: 49.6/22

Left: -0.003 $\pm$ 0.010 χ^2 /NDF: 79.7/46

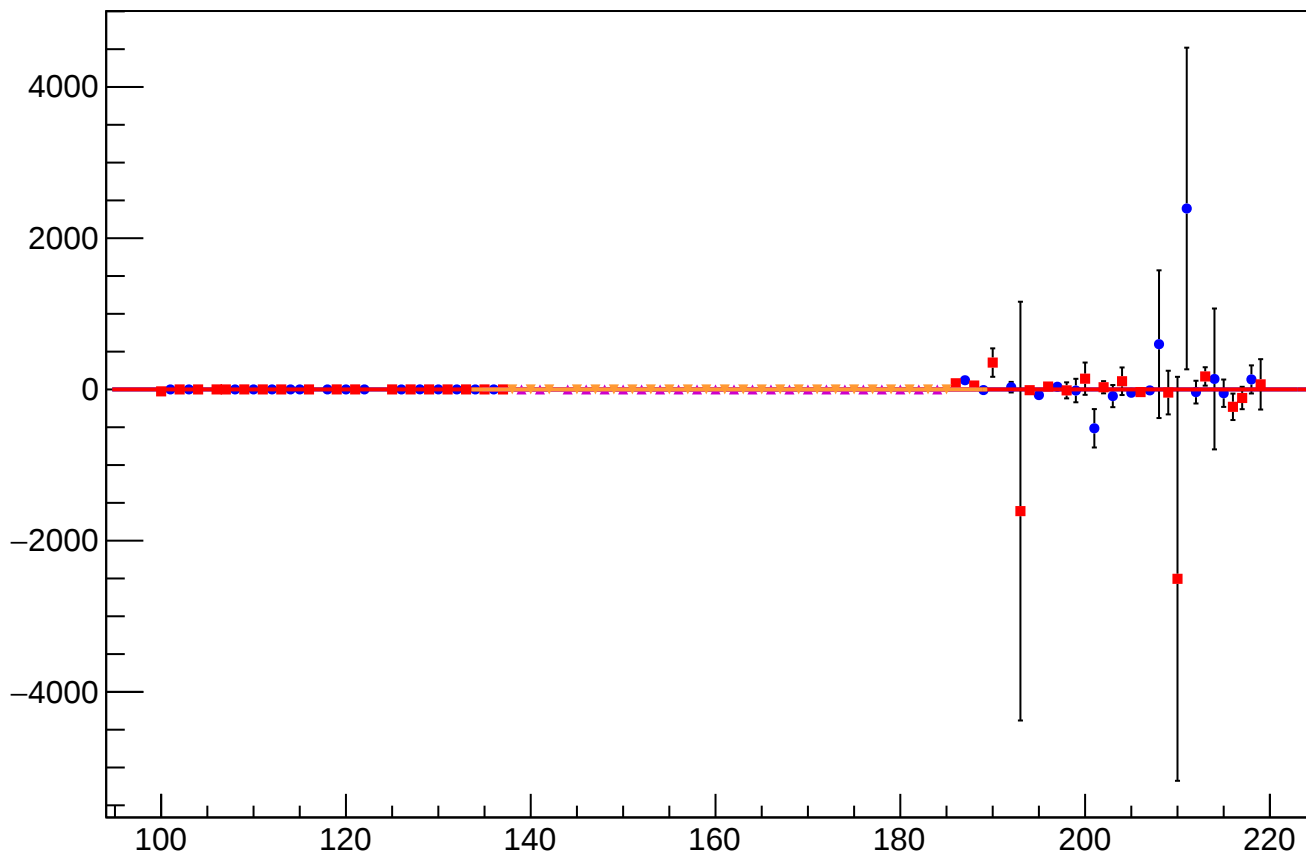
Right: 0.021 $\pm$ 0.017 χ^2 /NDF: 97.8/66

In: 0.006 $\pm$ 0.012 χ^2 /NDF: 93.3/54

Out: 0.001 $\pm$ 0.012 χ^2 /NDF: 85.8/58

All: 0.003 $\pm$ 0.009 χ^2 /NDF: 179.1/113

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.157+/-0.043 χ^2/NDF : 52.5/31

Left Out: 0.048+/-0.018 χ^2/NDF :35.4/23

Right Out: 0.197+/-0.045 χ^2/NDF : 113.9/34

Left In: 0.020+/-0.018 χ^2/NDF :35.8/22

Left: 0.034+/-0.013 χ^2/NDF : 72.4/46

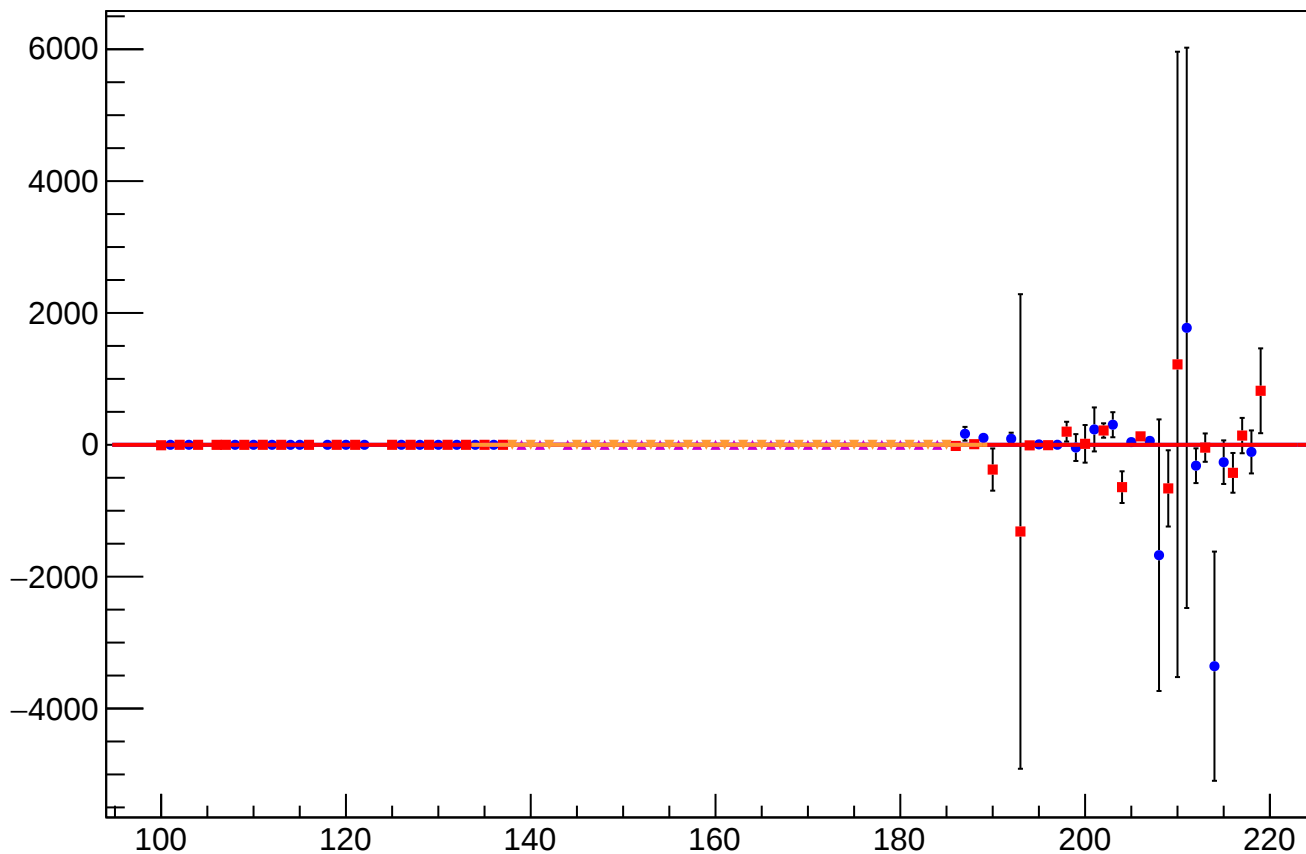
Right: 0.176+/-0.031 χ^2/NDF : 166.8/66

In: 0.040+/-0.017 χ^2/NDF :96.9/54

Out: 0.068+/-0.017 χ^2/NDF :158.8/58

All: 0.054+/-0.012 χ^2/NDF : 257.1/113

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.027 $\chi^2/\text{NDF}: 43.6/31$

Left Out: 0.022 ± 0.016 $\chi^2/\text{NDF}: 33.3/23$

Right Out: -0.046 ± 0.029 $\chi^2/\text{NDF}: 49.9/34$

Left In: 0.006 ± 0.016 $\chi^2/\text{NDF}: 50.1/22$

Left: 0.014 ± 0.011 $\chi^2/\text{NDF}: 83.9/46$

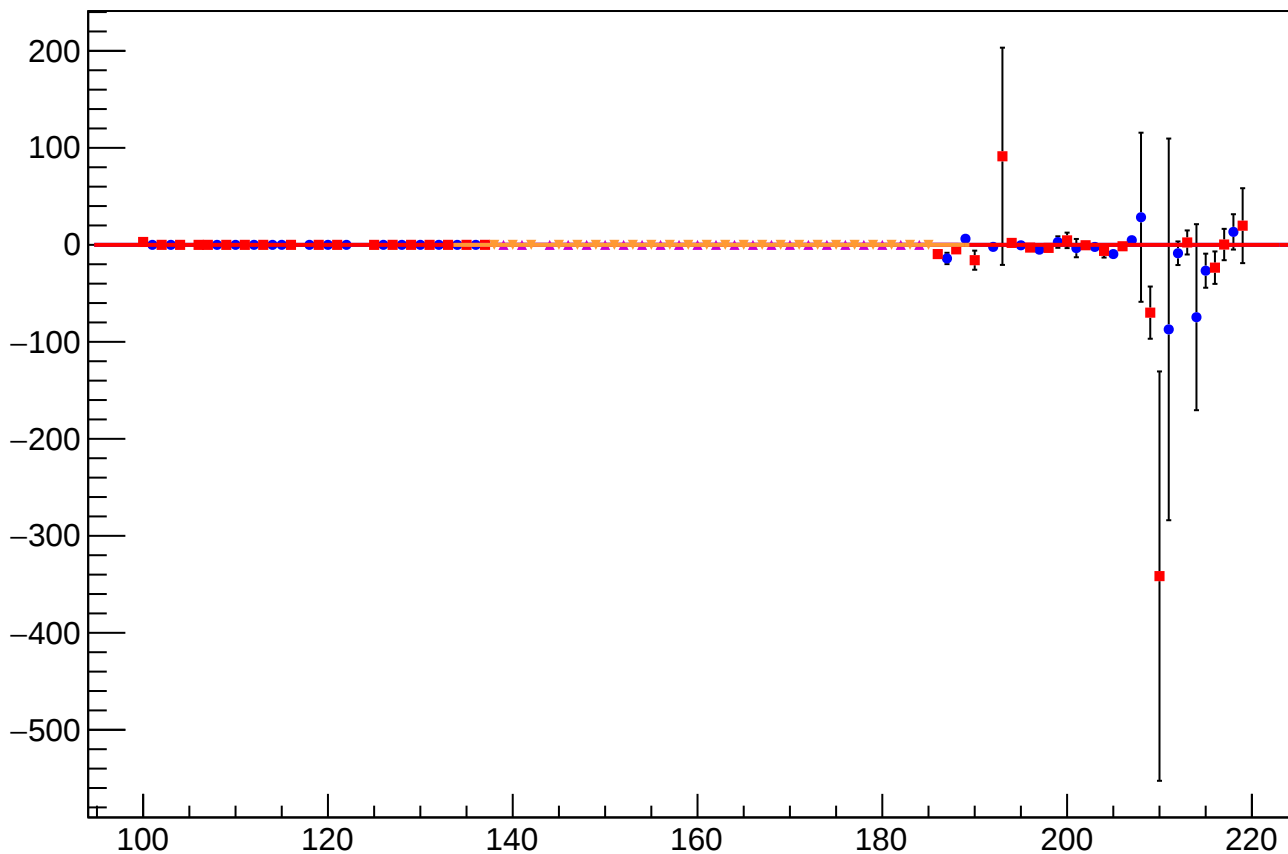
Right: -0.027 ± 0.020 $\chi^2/\text{NDF}: 94.4/66$

In: 0.002 ± 0.014 $\chi^2/\text{NDF}: 94.0/54$

Out: 0.005 ± 0.014 $\chi^2/\text{NDF}: 87.5/58$

All: 0.004 ± 0.010 $\chi^2/\text{NDF}: 181.5/113$

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006 ± 0.001 χ^2/NDF : 61.9/31

Left Out: -0.008 ± 0.001 χ^2/NDF : 32.0/23

Right Out: -0.006 ± 0.001 χ^2/NDF : 226.5/34

Left In: -0.009 ± 0.001 χ^2/NDF : 37.2/22

Left: -0.008 ± 0.001 χ^2/NDF : 69.4/46

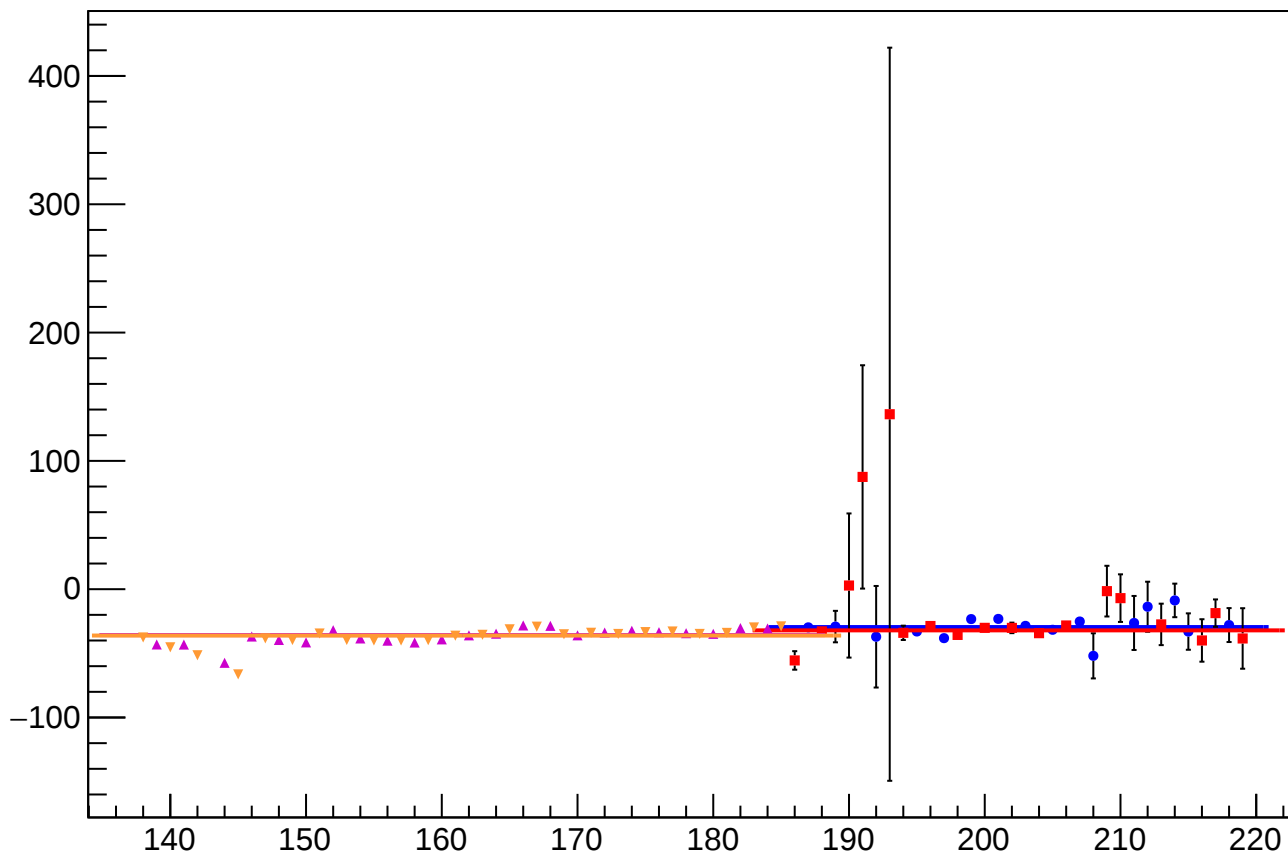
Right: -0.006 ± 0.001 χ^2/NDF : 288.4/66

In: -0.008 ± 0.001 χ^2/NDF : 101.6/54

Out: -0.008 ± 0.001 χ^2/NDF : 260.5/58

All: -0.008 ± 0.000 χ^2/NDF : 362.4/113

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.510 ± 0.851 $\chi^2/\text{NDF}: 29.0/15$

Left Out: -36.120 ± 0.192 $\chi^2/\text{NDF}: 1114.9/23$

Right Out: -32.092 ± 0.802 $\chi^2/\text{NDF}: 27.0/17$

Left In: -35.779 ± 0.191 $\chi^2/\text{NDF}: 854.1/22$

Left: -35.949 ± 0.136 $\chi^2/\text{NDF}: 1970.6/46$

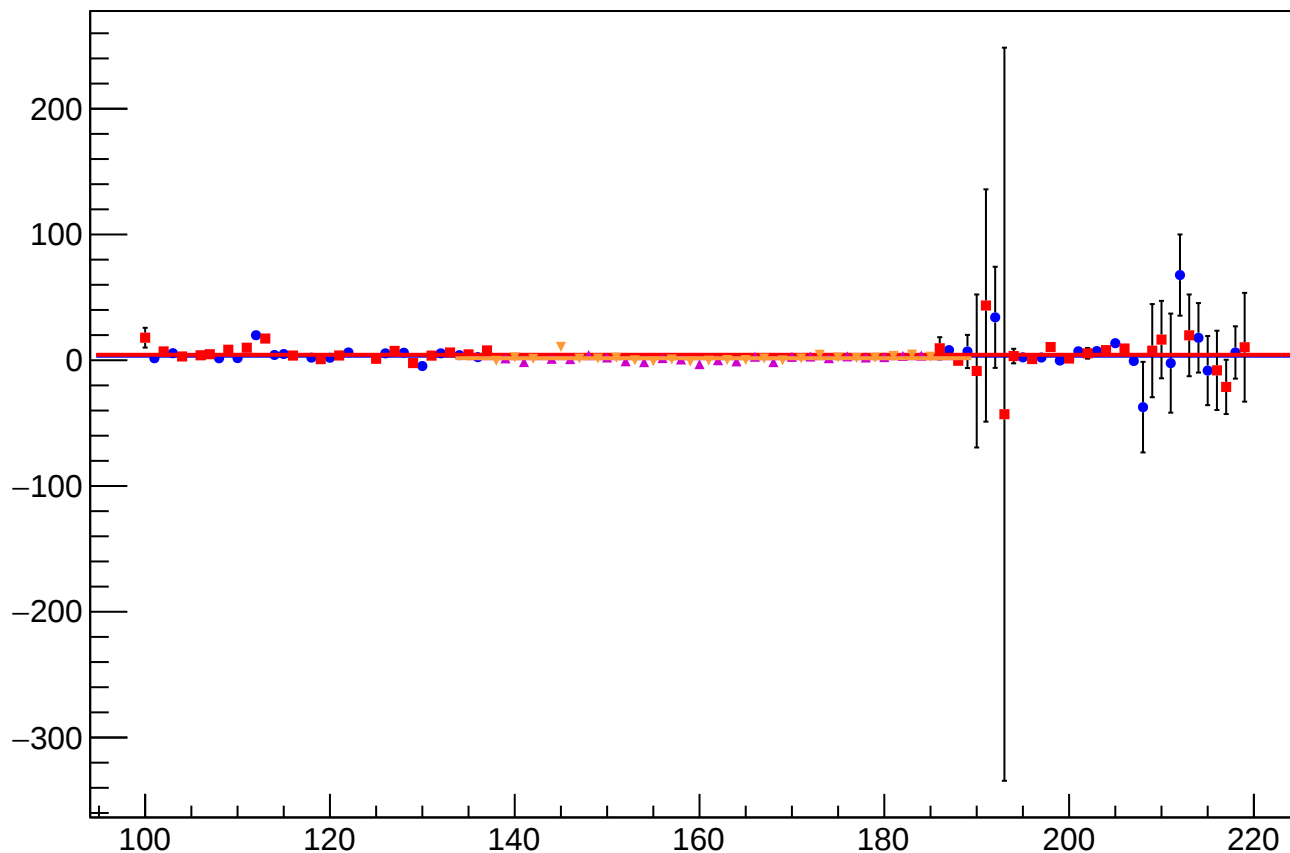
Right: -30.878 ± 0.584 $\chi^2/\text{NDF}: 60.8/33$

In: -35.478 ± 0.187 $\chi^2/\text{NDF}: 934.7/38$

Out: -35.902 ± 0.187 $\chi^2/\text{NDF}: 1165.7/41$

All: -35.690 ± 0.132 $\chi^2/\text{NDF}: 2103.0/80$

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.603 $\pm$ 0.217 χ^2 /NDF: 462.6/31

Left Out: 1.634 $\pm$ 0.148 χ^2 /NDF:166.5/23

Right Out: 4.347 $\pm$ 0.221 χ^2 /NDF: 370.9/35

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

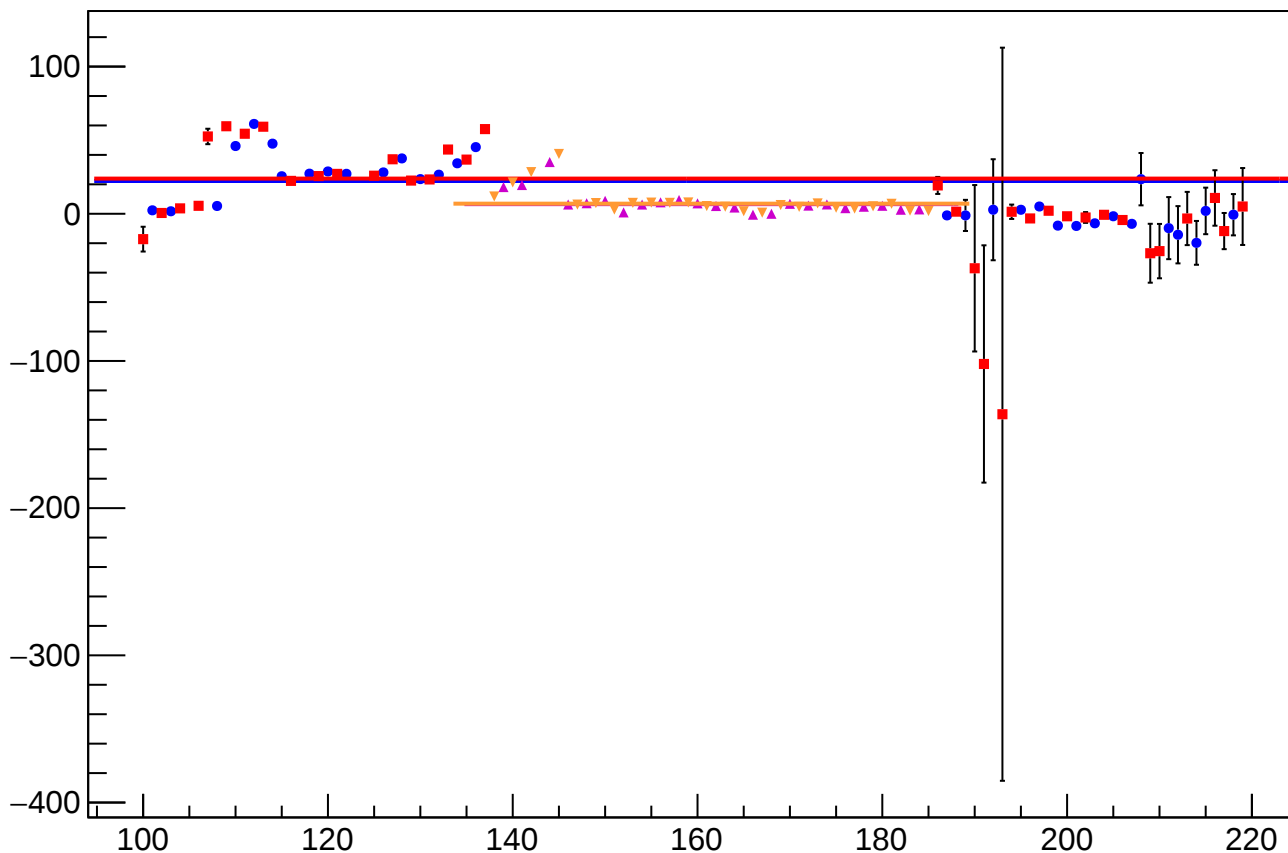
Right: 3.968 $\pm$ 0.155 χ^2 /NDF: 839.3/67

In: 2.274 $\pm$ 0.123 χ^2 /NDF:681.3/54

Out: 2.475 $\pm$ 0.123 χ^2 /NDF:641.9/59

All: 2.374 $\pm$ 0.087 χ^2 /NDF: 1324.5/114

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.272 $\pm$ 0.370 χ^2 /NDF: 2824.3/31

Left Out: 6.866 $\pm$ 0.191 χ^2 /NDF:1295.7/23

Right Out: 23.896 $\pm$ 0.361 χ^2 /NDF: 3308.9/35

Left In: 6.537 $\pm$ 0.190 χ^2 /NDF:1025.1/22

Left: 6.700 $\pm$ 0.135 χ^2 /NDF: 2322.3/46

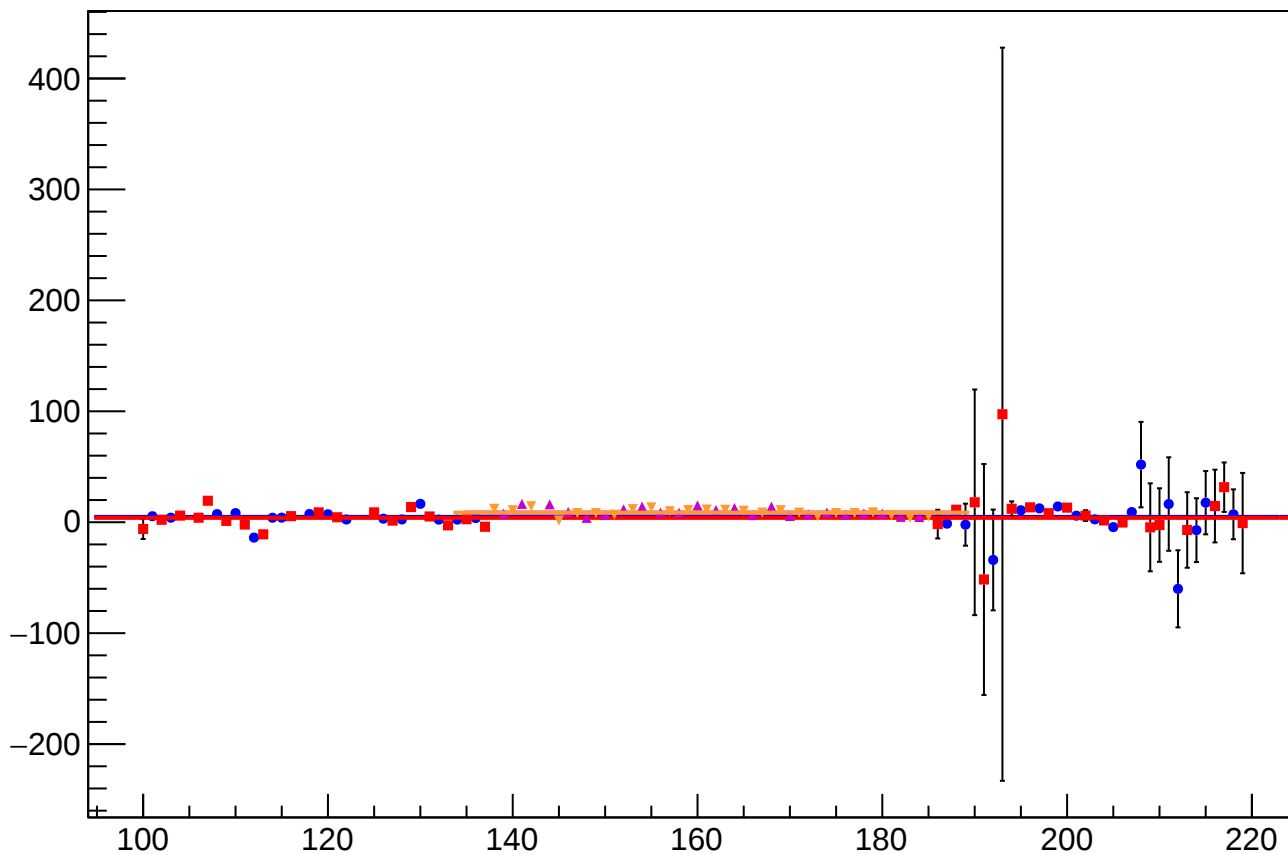
Right: 23.102 $\pm$ 0.258 χ^2 /NDF: 6143.1/67

In: 9.837 $\pm$ 0.169 χ^2 /NDF:5282.4/54

Out: 10.596 $\pm$ 0.169 χ^2 /NDF:6338.8/59

All: 10.217 $\pm$ 0.120 χ^2 /NDF: 11631.2/114

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.805 $\pm$ 0.250 χ^2 /NDF: 576.6/31

Left Out: 8.695 $\pm$ 0.169 χ^2 /NDF:241.0/23

Right Out: 3.940 $\pm$ 0.254 χ^2 /NDF: 590.9/35

Left In: 8.668 $\pm$ 0.170 χ^2 /NDF:436.7/22

Left: 8.681 $\pm$ 0.120 χ^2 /NDF: 677.7/46

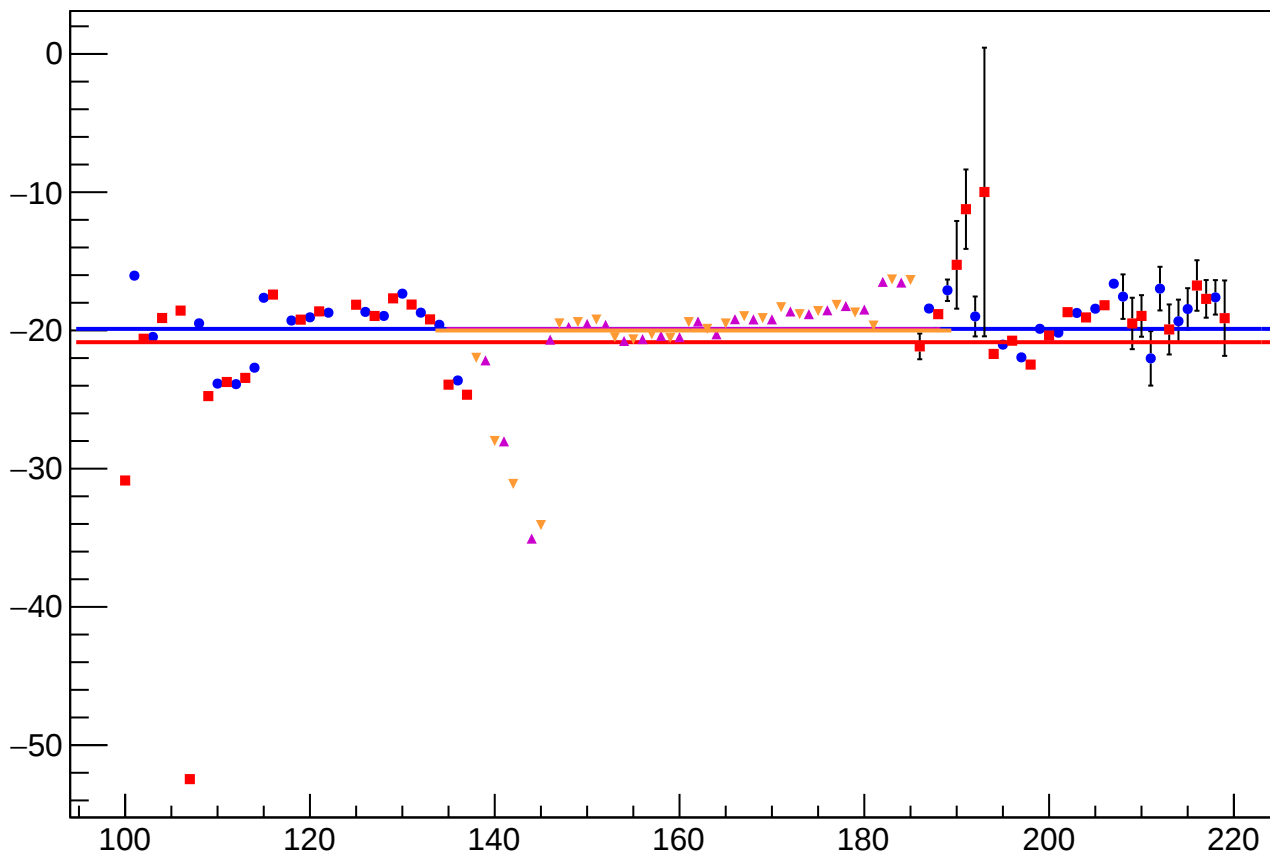
Right: 4.380 $\pm$ 0.178 χ^2 /NDF: 1173.5/67

In: 7.445 $\pm$ 0.141 χ^2 /NDF:1176.6/54

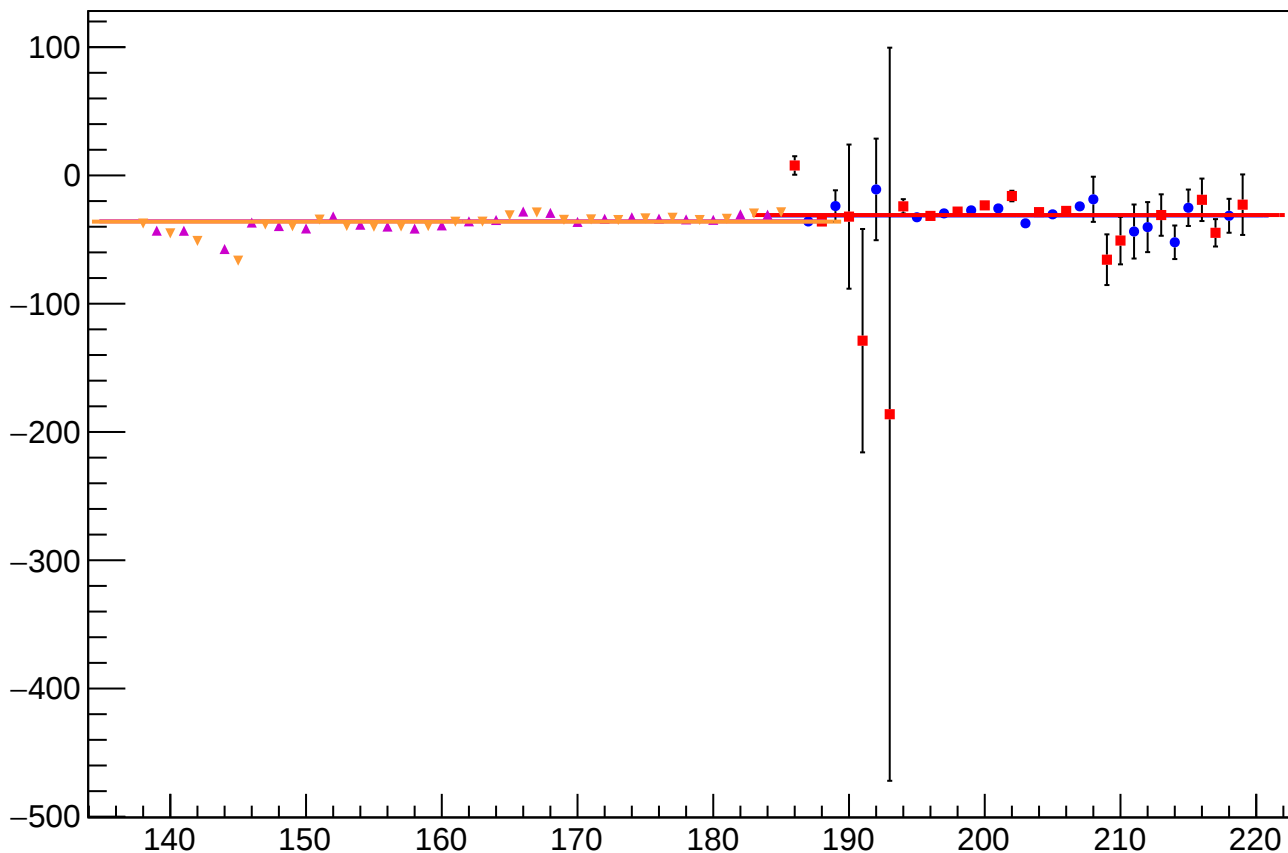
Out: 7.238 $\pm$ 0.141 χ^2 /NDF:1074.4/59

All: 7.341 $\pm$ 0.099 χ^2 /NDF: 2252.1/114

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -31.199 ± 0.854 χ^2/NDF : 31.3/15

Left Out: -36.031 ± 0.192 χ^2/NDF : 1121.3/23

Right Out: -30.894 ± 0.804 χ^2/NDF : 78.5/17

Left In: -35.766 ± 0.191 χ^2/NDF : 842.6/22

Left: -35.898 ± 0.135 χ^2/NDF : 1964.8/46

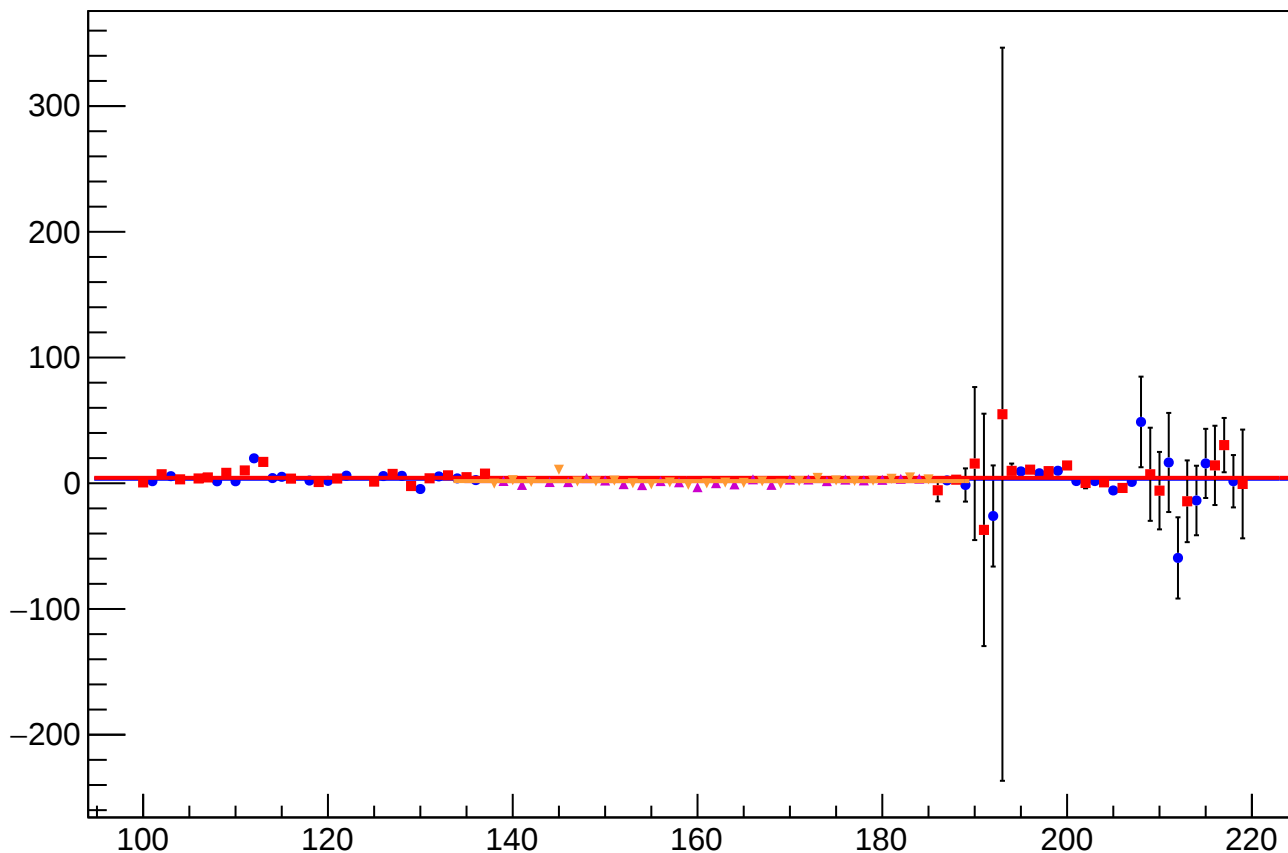
Right: -31.037 ± 0.586 χ^2/NDF : 109.9/33

In: -35.548 ± 0.187 χ^2/NDF : 901.2/38

Out: -35.754 ± 0.187 χ^2/NDF : 1238.4/41

All: -35.651 ± 0.132 χ^2/NDF : 2140.2/80

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.567 $\pm$ 0.217 χ^2 /NDF: 462.1/31

Left Out: 1.724 $\pm$ 0.148 χ^2 /NDF:168.2/23

Right Out: 4.323 $\pm$ 0.217 χ^2 /NDF: 380.3/35

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

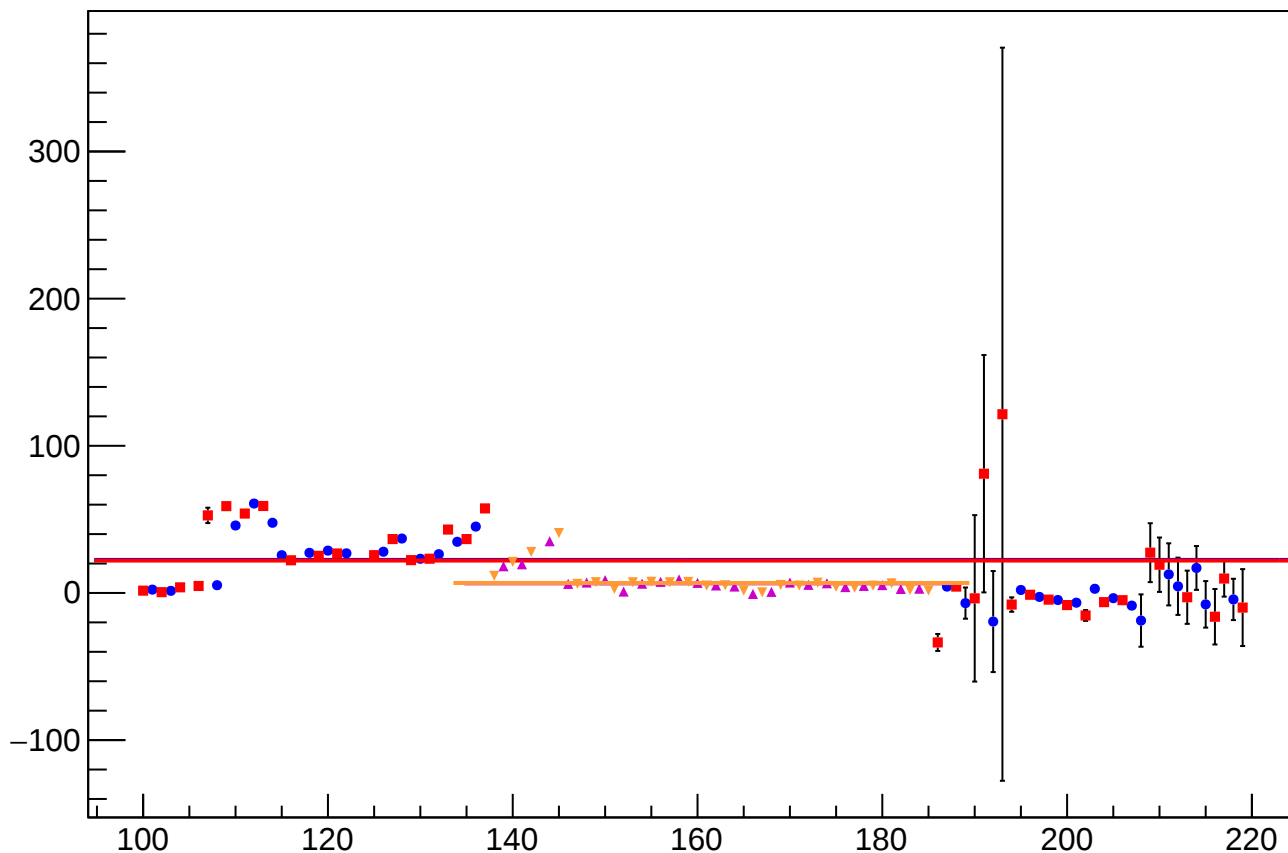
Right: 3.944 $\pm$ 0.153 χ^2 /NDF: 848.4/67

In: 2.305 $\pm$ 0.123 χ^2 /NDF:675.1/54

Out: 2.546 $\pm$ 0.122 χ^2 /NDF:646.5/59

All: 2.427 $\pm$ 0.087 χ^2 /NDF: 1323.5/114

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 22.445 $\pm$ 0.370 χ^2 /NDF: 2708.2/31

Left Out: 6.779 $\pm$ 0.191 χ^2 /NDF:1297.7/23

Right Out: 22.025 $\pm$ 0.349 χ^2 /NDF: 3667.8/35

Left In: 6.532 $\pm$ 0.190 χ^2 /NDF:1018.2/22

Left: 6.655 $\pm$ 0.135 χ^2 /NDF: 2316.7/46

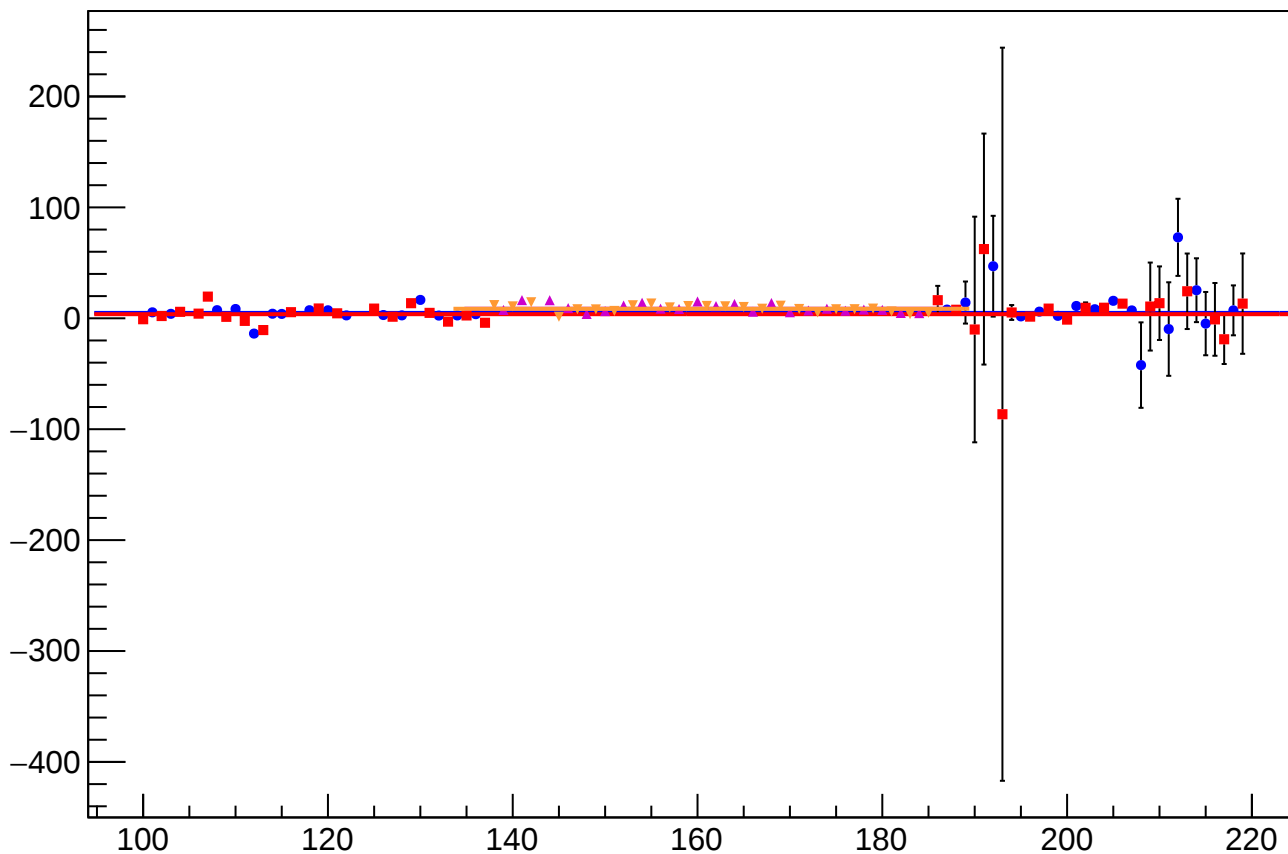
Right: 22.223 $\pm$ 0.254 χ^2 /NDF: 6376.6/67

In: 9.866 $\pm$ 0.169 χ^2 /NDF:5191.8/54

Out: 10.306 $\pm$ 0.168 χ^2 /NDF:6435.2/59

All: 10.088 $\pm$ 0.119 χ^2 /NDF: 11630.5/114

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.849 ± 0.250 χ^2/NDF : 565.0/31

Left Out: 8.585 ± 0.169 χ^2/NDF : 245.5/23

Right Out: 3.697 ± 0.250 χ^2/NDF : 590.5/35

Left In: 8.585 ± 0.170 χ^2/NDF : 441.8/22

Left: 8.585 ± 0.120 χ^2/NDF : 687.3/46

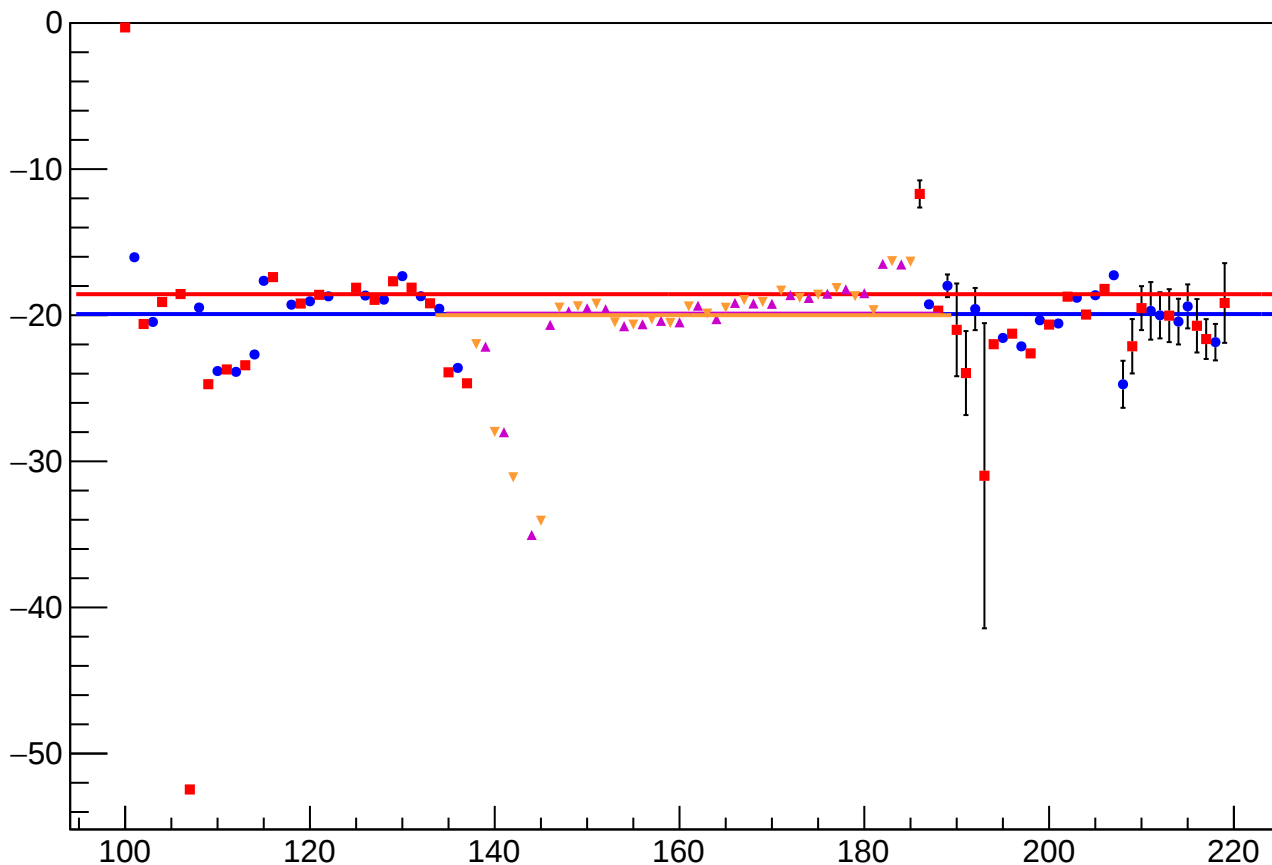
Right: 4.274 ± 0.177 χ^2/NDF : 1166.2/67

In: 7.402 ± 0.141 χ^2/NDF : 1159.6/54

Out: 7.054 ± 0.140 χ^2/NDF : 1098.4/59

All: 7.227 ± 0.099 χ^2/NDF : 2261.1/114

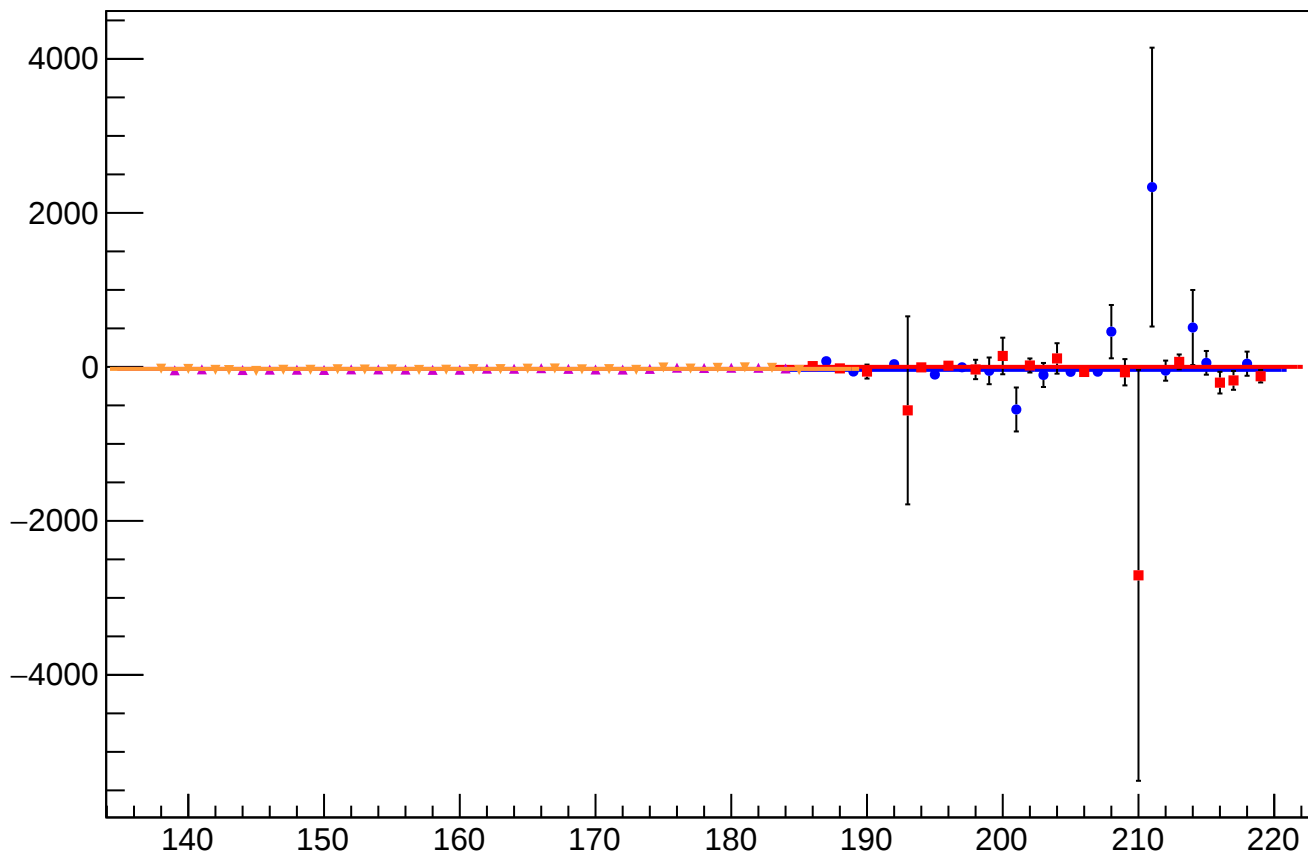
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.920+/-0.015 χ^2/NDF : 27099.8/31
 Left Out: -19.998+/-0.008 χ^2/NDF : 171944.6/23
 Right Out: -18.560+/-0.014 χ^2/NDF : 303735.3/35
 Left In: -19.890+/-0.008 χ^2/NDF : 144055.2/22

Left: -19.944+/-0.006 χ^2/NDF : 316093.4/46
 Right: -19.205+/-0.010 χ^2/NDF : 335254.9/67
 In: -19.897+/-0.007 χ^2/NDF : 171158.1/54
 Out: -19.655+/-0.007 χ^2/NDF : 483606.5/59
 All: -19.775+/-0.005 χ^2/NDF : 655378.4/114

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -38.374+/-12.891 χ^2 /NDF: 21.6/15

Left Out: -25.884+/-0.192 χ^2 /NDF:4158.0/24

Right Out: 0.535+/-8.012 χ^2 /NDF: 13.8/16

Left In: -26.052+/-0.195 χ^2 /NDF:3279.5/22

Left: -25.967+/-0.137 χ^2 /NDF: 7437.8/47

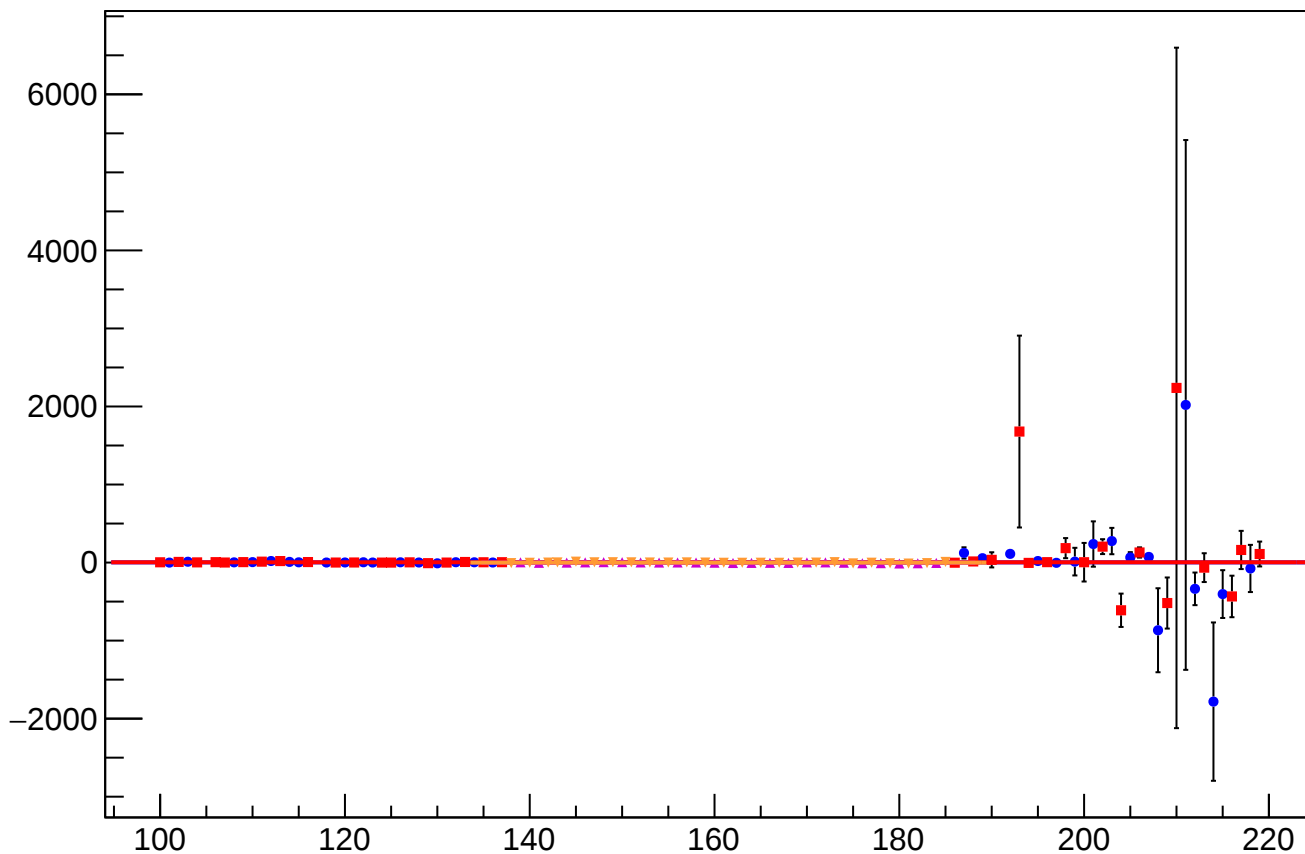
Right: -10.307+/-6.805 χ^2 /NDF: 42.1/32

In: -26.055+/-0.195 χ^2 /NDF:3302.0/38

Out: -25.869+/-0.192 χ^2 /NDF:4182.7/41

All: -25.961+/-0.137 χ^2 /NDF: 7485.2/80

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.475+/-0.315 χ^2/NDF : 324.1/32

Left Out: -0.654+/-0.146 χ^2/NDF : 1320.8/24

Right Out: 3.715+/-0.327 χ^2/NDF : 296.2/35

Left In: -0.863+/-0.150 χ^2/NDF : 1066.5/22

Left: -0.756+/-0.105 χ^2/NDF : 2388.3/47

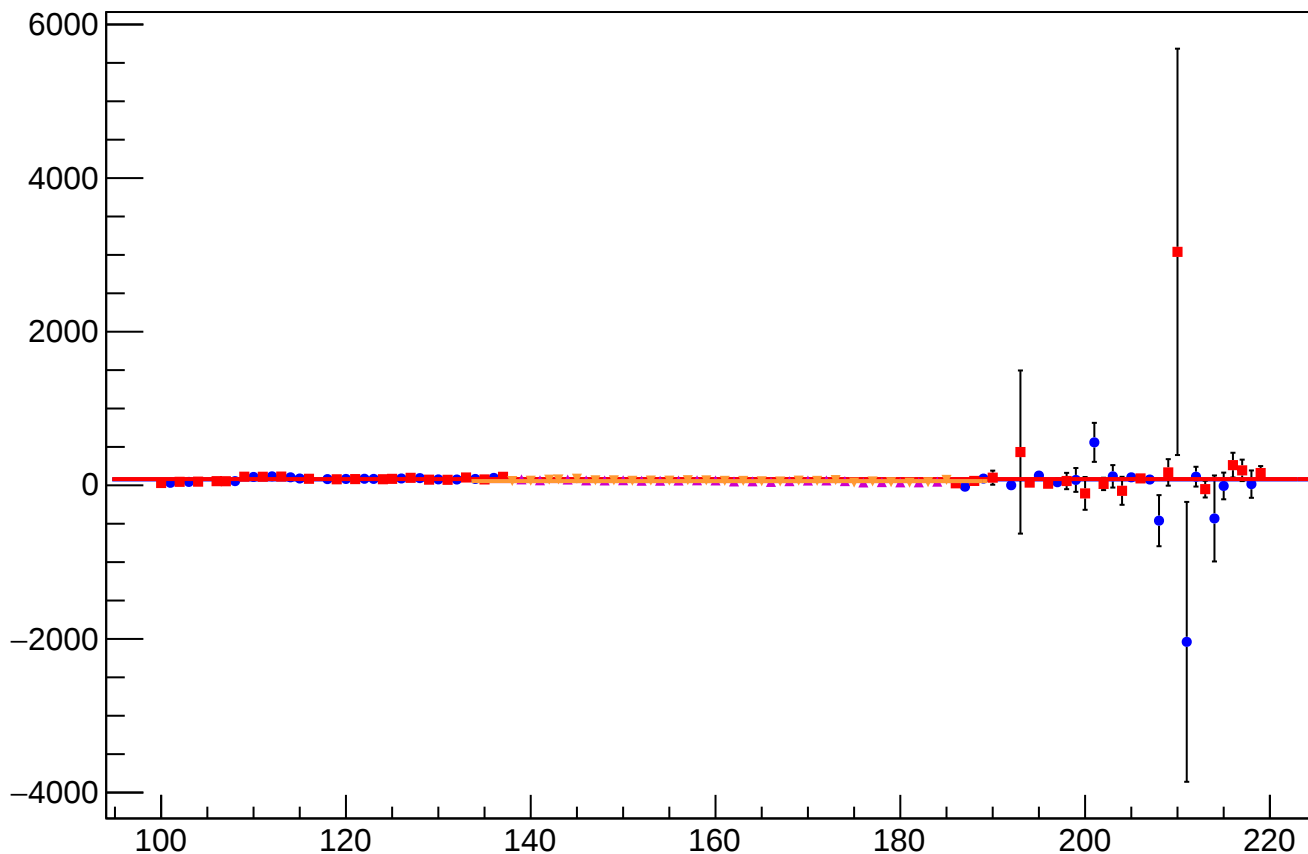
Right: 3.072+/-0.227 χ^2/NDF : 627.8/68

In: -0.242+/-0.136 χ^2/NDF : 1482.2/55

Out: 0.075+/-0.133 χ^2/NDF : 1766.2/60

All: -0.081+/-0.095 χ^2/NDF : 3251.2/116

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.530 $\pm$ 0.576 χ^2 /NDF: 2274.5/32

Left Out: 55.098 $\pm$ 0.191 χ^2 /NDF: 4579.3/24

Right Out: 81.495 $\pm$ 0.590 χ^2 /NDF: 1638.3/35

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

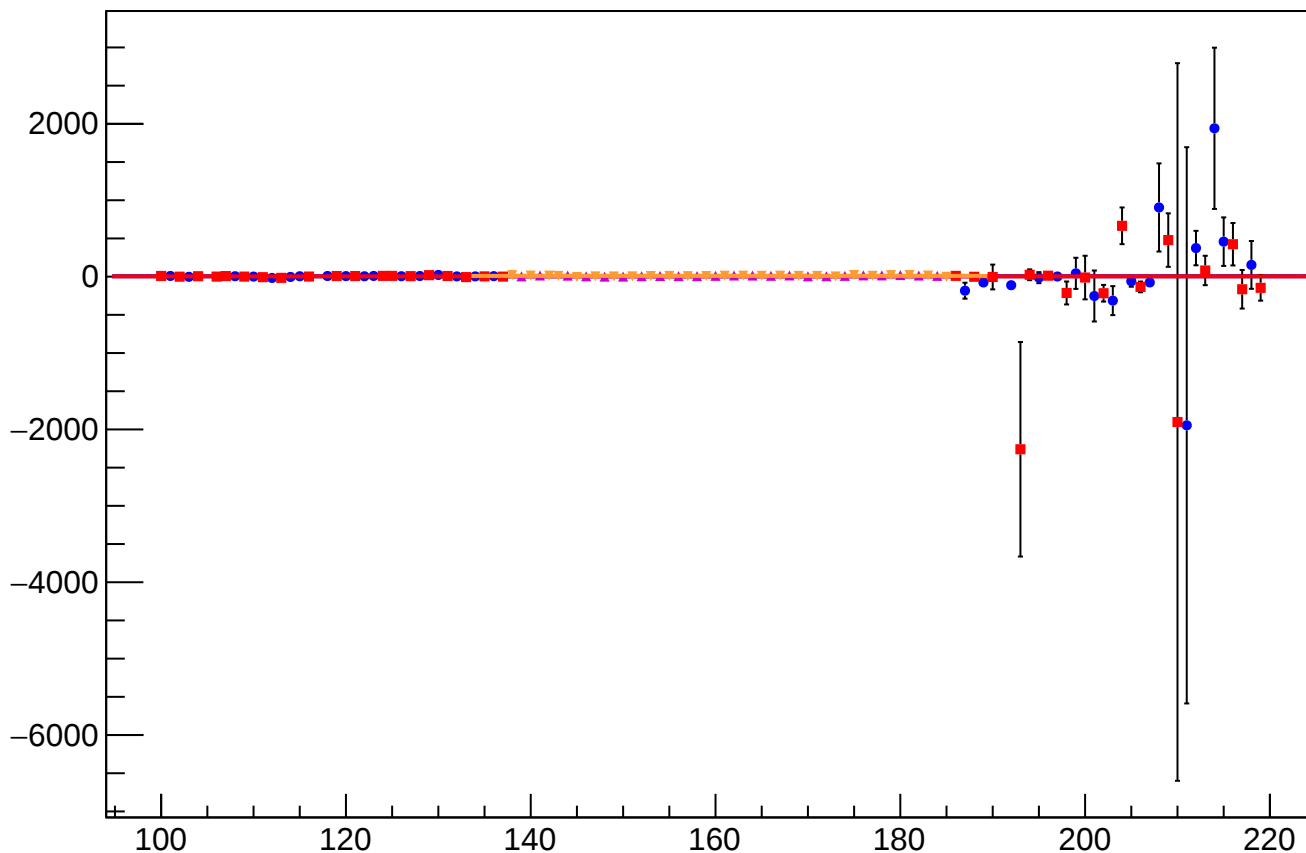
Right: 78.952 $\pm$ 0.412 χ^2 /NDF: 3949.0/68

In: 57.244 $\pm$ 0.183 χ^2 /NDF: 7224.1/55

Out: 57.610 $\pm$ 0.182 χ^2 /NDF: 8026.0/60

All: 57.428 $\pm$ 0.129 χ^2 /NDF: 15252.1/116

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.408 $\pm$ 0.361 χ^2 /NDF: 415.7/32

Left Out: 9.737 $\pm$ 0.168 χ^2 /NDF:1450.2/24

Right Out: 3.580 $\pm$ 0.375 χ^2 /NDF: 447.8/35

Left In: 9.803 $\pm$ 0.172 χ^2 /NDF:1158.7/22

Left: 9.769 $\pm$ 0.120 χ^2 /NDF: 2609.0/47

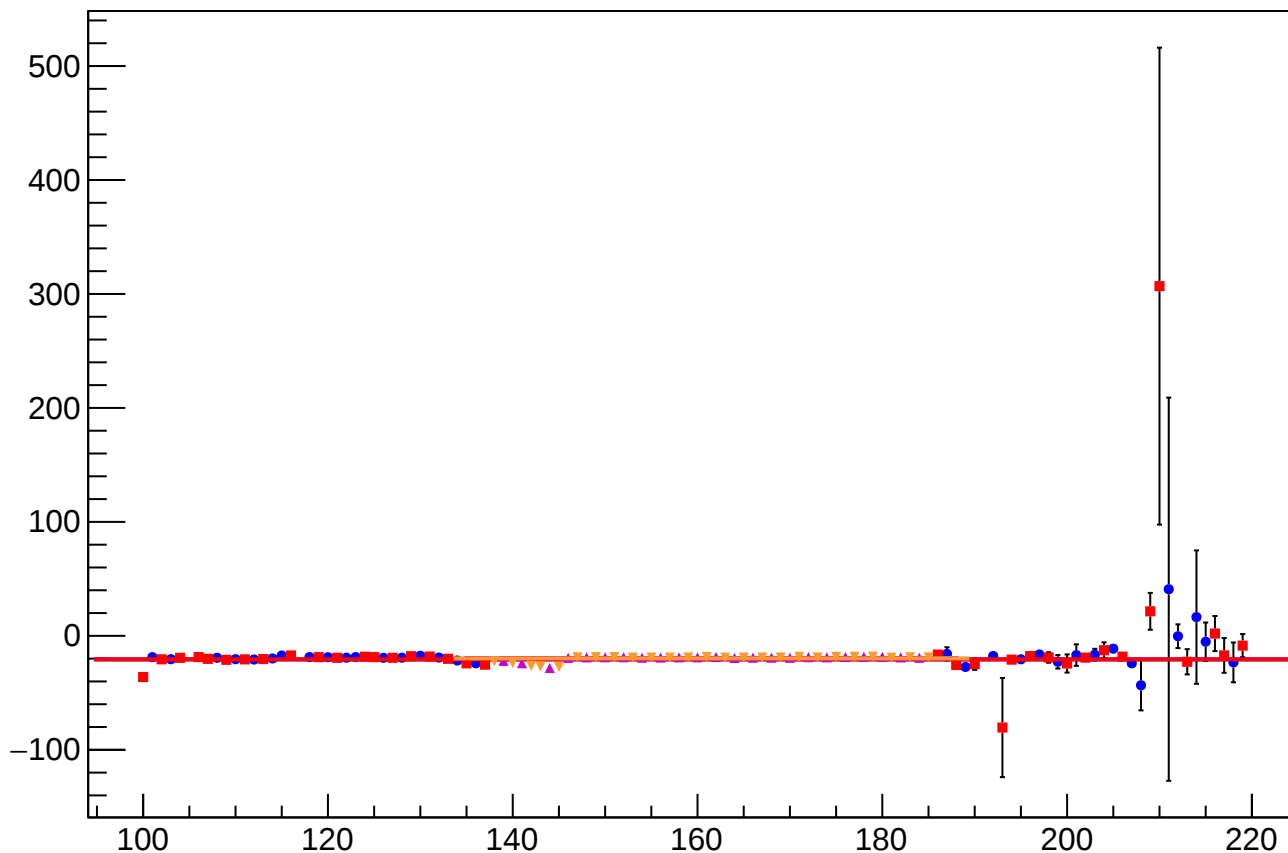
Right: 4.530 $\pm$ 0.260 χ^2 /NDF: 875.8/68

In: 8.992 $\pm$ 0.155 χ^2 /NDF:1695.4/55

Out: 8.712 $\pm$ 0.153 χ^2 /NDF:2122.2/60

All: 8.851 $\pm$ 0.109 χ^2 /NDF: 3819.3/116

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.644 ± 0.019 $\chi^2/\text{NDF}: 12460.3/32$

Left Out: -19.767 ± 0.008 $\chi^2/\text{NDF}: 91617.3/24$

Right Out: -20.638 ± 0.019 $\chi^2/\text{NDF}: 13822.8/35$

Left In: -19.435 ± 0.008 $\chi^2/\text{NDF}: 53170.9/22$

Left: -19.603 ± 0.006 $\chi^2/\text{NDF}: 145665.0/47$

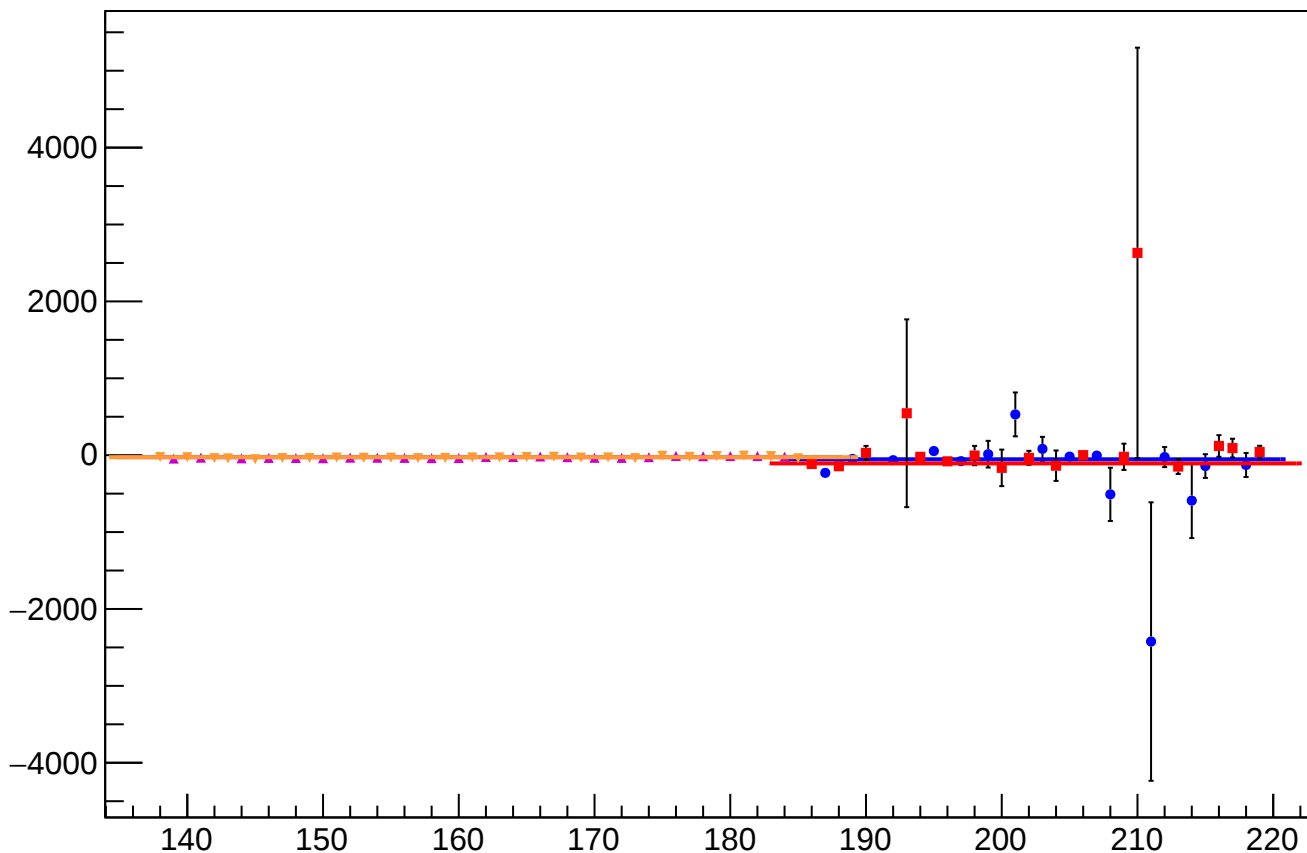
Right: -20.641 ± 0.014 $\chi^2/\text{NDF}: 26283.1/68$

In: -19.610 ± 0.007 $\chi^2/\text{NDF}: 68968.4/55$

Out: -19.890 ± 0.007 $\chi^2/\text{NDF}: 107162.0/60$

All: -19.751 ± 0.005 $\chi^2/\text{NDF}: 176858.9/116$

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -53.356 ± 12.900 χ^2/NDF : 32.8/15

Left Out: -25.899 ± 0.192 χ^2/NDF : 4127.5/24

Right Out: -106.957 ± 8.017 χ^2/NDF : 25.8/16

Left In: -26.046 ± 0.195 χ^2/NDF : 3246.7/22

Left: -25.971 ± 0.137 χ^2/NDF : 7374.6/47

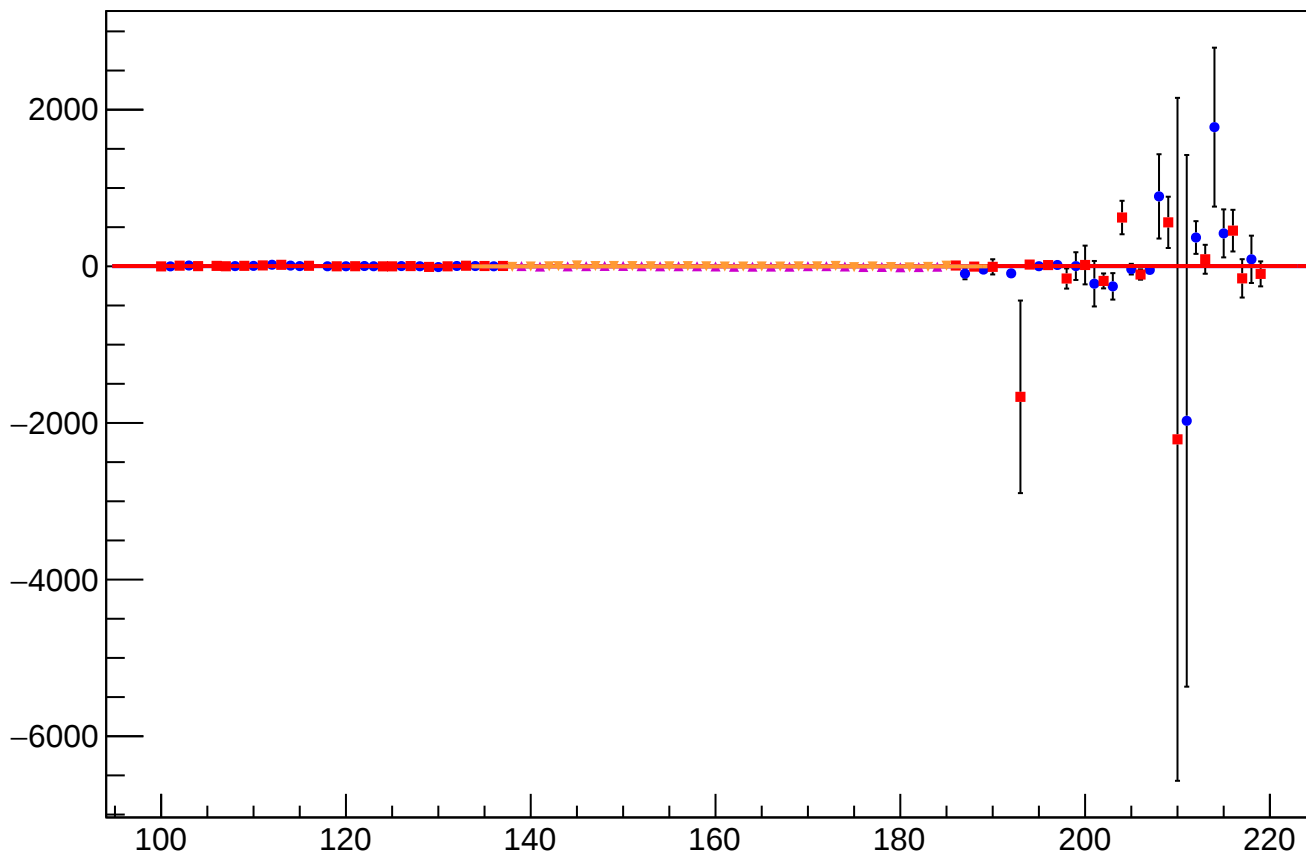
Right: -92.022 ± 6.809 χ^2/NDF : 71.1/32

In: -26.052 ± 0.195 χ^2/NDF : 3284.0/38

Out: -25.945 ± 0.192 χ^2/NDF : 4255.5/41

All: -25.998 ± 0.137 χ^2/NDF : 7539.7/80

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.440 $\pm$ 0.315 χ^2 /NDF: 316.6/32

Left Out: -0.596 $\pm$ 0.146 χ^2 /NDF:1310.7/24

Right Out: 3.593 $\pm$ 0.318 χ^2 /NDF: 306.1/35

Left In: -0.795 $\pm$ 0.151 χ^2 /NDF:1106.3/22

Left: -0.693 $\pm$ 0.105 χ^2 /NDF: 2417.9/47

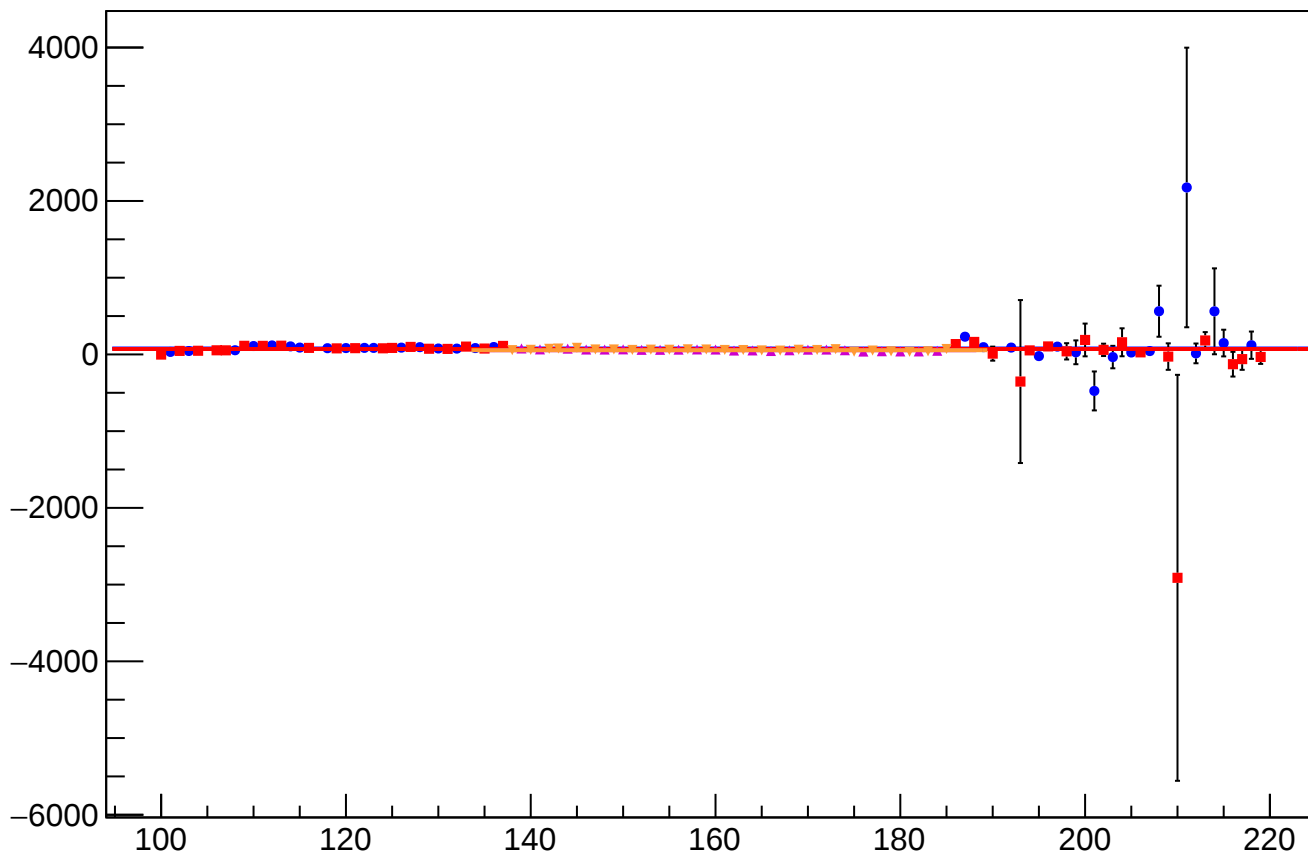
Right: 3.011 $\pm$ 0.224 χ^2 /NDF: 629.4/68

In: -0.193 $\pm$ 0.136 χ^2 /NDF:1508.8/55

Out: 0.136 $\pm$ 0.133 χ^2 /NDF:1760.1/60

All: -0.025 $\pm$ 0.095 χ^2 /NDF: 3271.9/116

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.710 $\pm$ 0.576 χ^2 /NDF: 2301.0/32

Left Out: 55.111 $\pm$ 0.192 χ^2 /NDF: 4560.2/24

Right Out: 70.742 $\pm$ 0.549 χ^2 /NDF: 4498.8/35

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

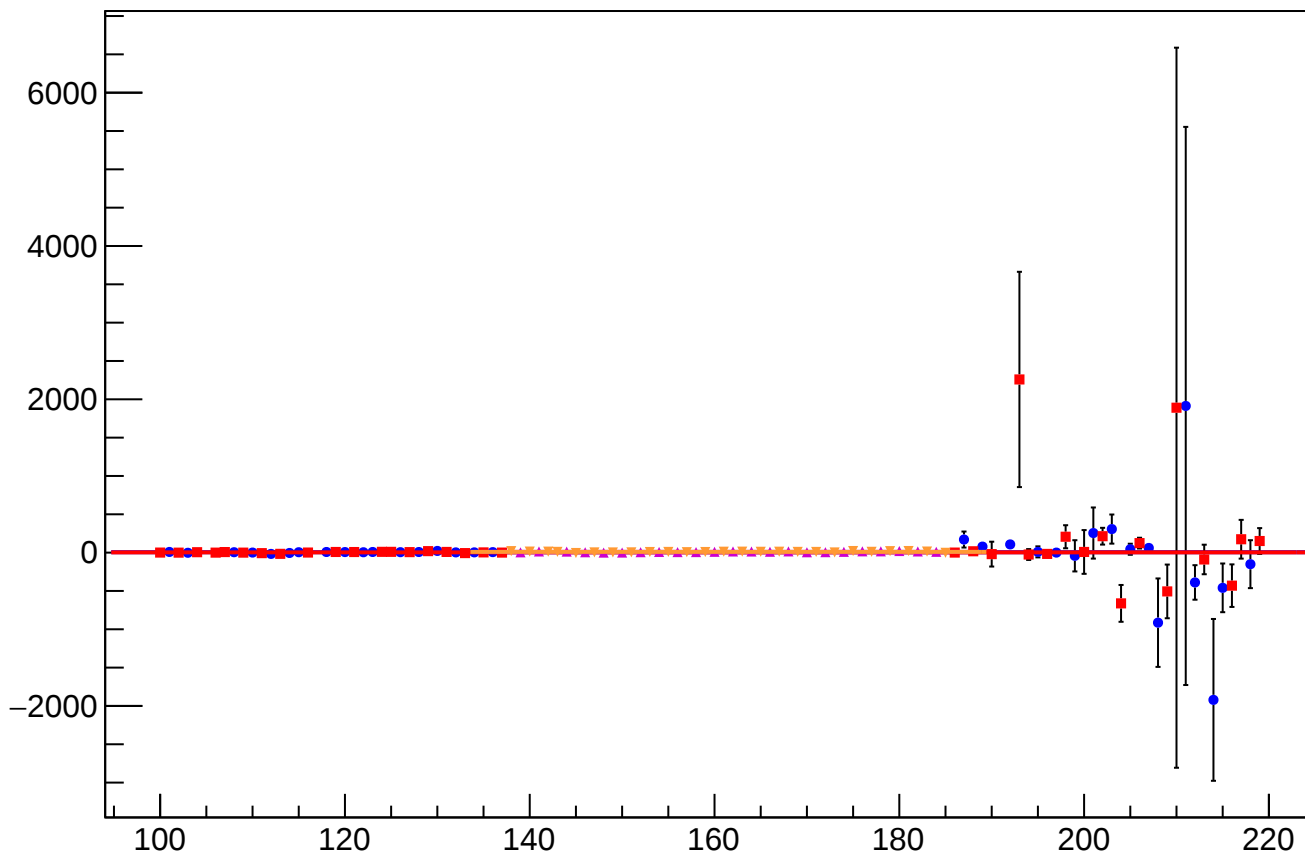
Right: 73.578 $\pm$ 0.397 χ^2 /NDF: 6856.0/68

In: 57.285 $\pm$ 0.184 χ^2 /NDF: 7229.2/55

Out: 56.810 $\pm$ 0.181 χ^2 /NDF: 9782.6/60

All: 57.044 $\pm$ 0.129 χ^2 /NDF: 17015.1/116

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.443 $\pm$ 0.361 χ^2 /NDF: 409.9/32

Left Out: 9.675 $\pm$ 0.168 χ^2 /NDF:1441.3/24

Right Out: 3.283 $\pm$ 0.365 χ^2 /NDF: 450.4/35

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

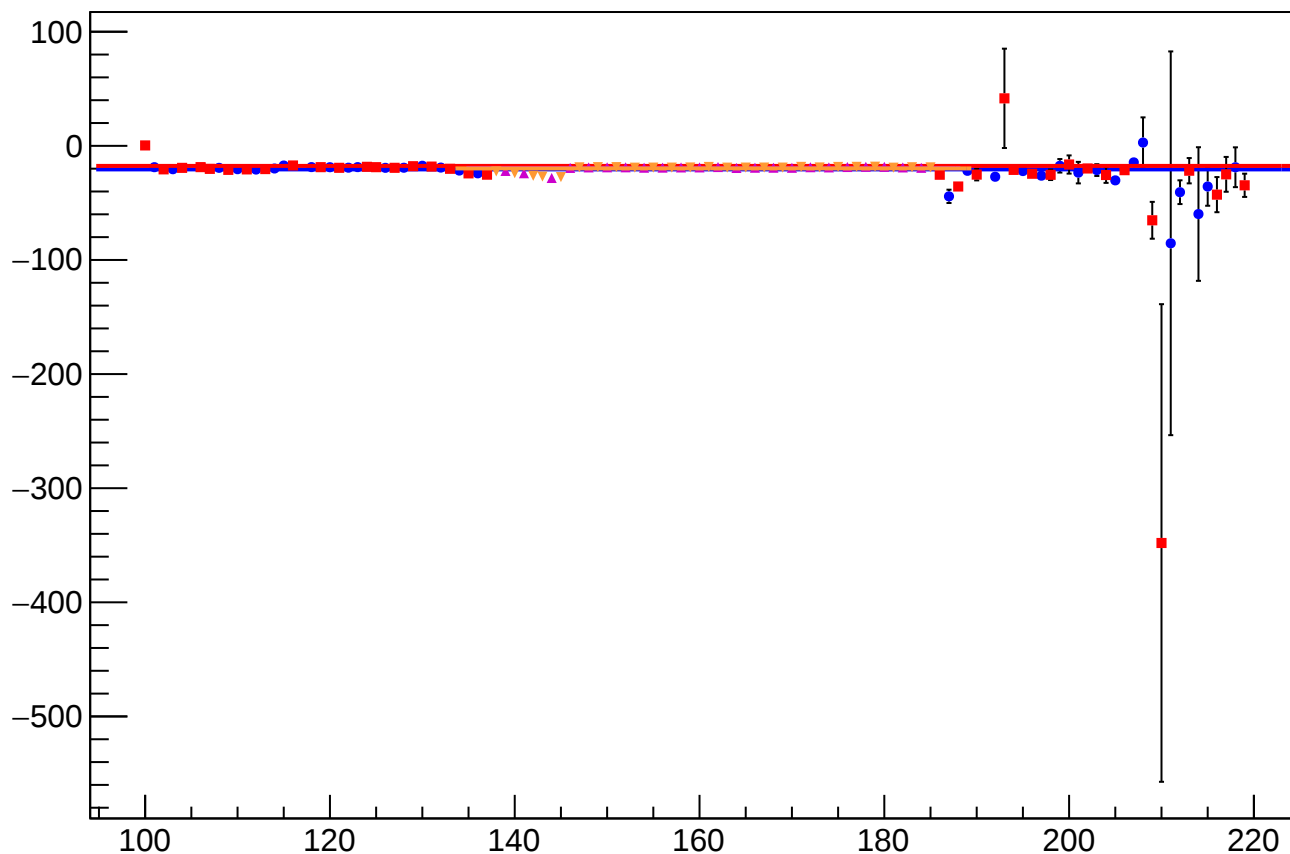
Right: 4.376 $\pm$ 0.257 χ^2 /NDF: 878.0/68

In: 8.945 $\pm$ 0.155 χ^2 /NDF:1716.4/55

Out: 8.562 $\pm$ 0.153 χ^2 /NDF:2144.4/60

All: 8.750 $\pm$ 0.109 χ^2 /NDF: 3863.9/116

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.647 ± 0.019 χ^2/NDF : 12521.0/32

Left Out: -19.775 ± 0.008 χ^2/NDF : 91510.1/24

Right Out: -17.575 ± 0.018 χ^2/NDF : 178458.6/35

Left In: -19.445 ± 0.008 χ^2/NDF : 53124.1/22

Left: -19.611 ± 0.006 χ^2/NDF : 145502.5/47

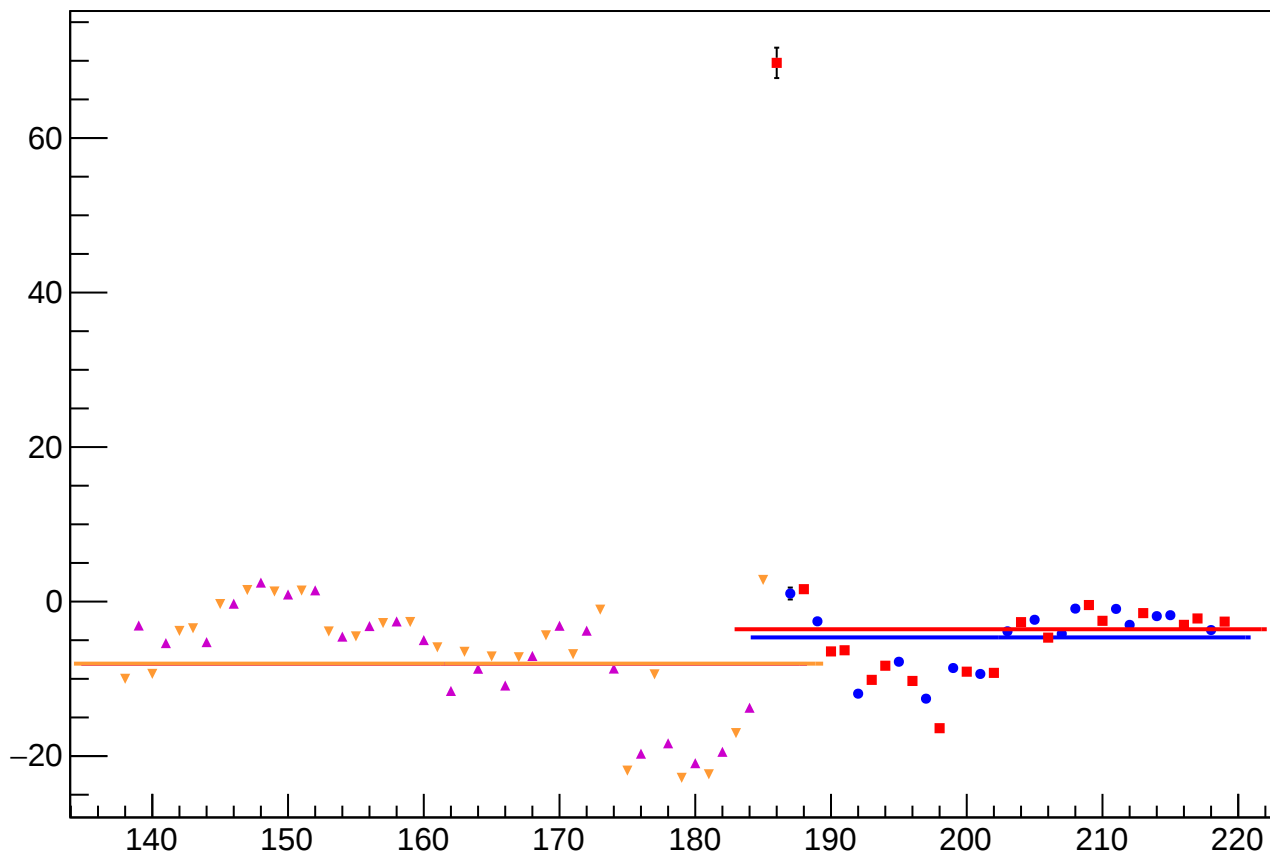
Right: -19.003 ± 0.013 χ^2/NDF : 204449.1/68

In: -19.618 ± 0.007 χ^2/NDF : 68942.9/55

Out: -19.422 ± 0.007 χ^2/NDF : 282444.3/60

All: -19.518 ± 0.005 χ^2/NDF : 351750.3/116

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected

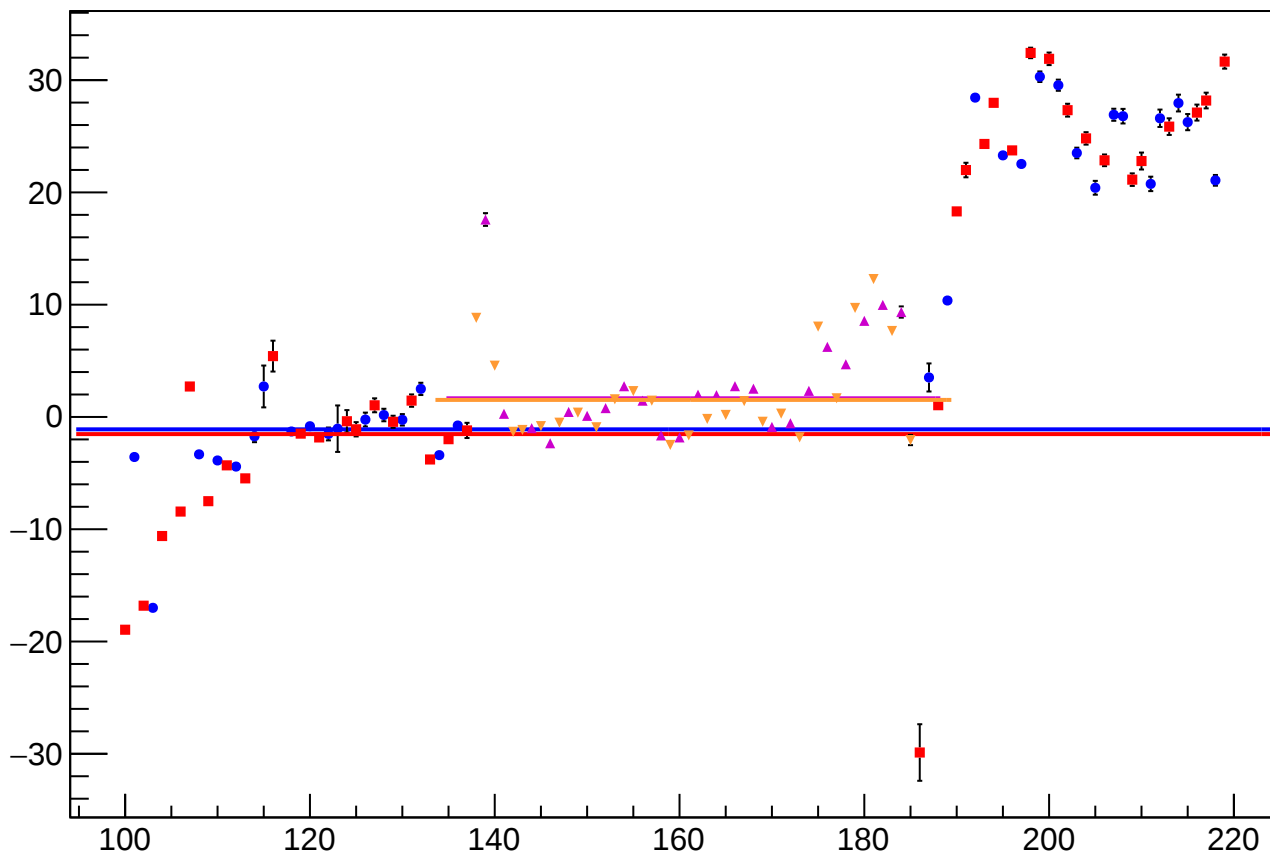


Right In: -4.638 ± 0.096 χ^2/NDF : 1562.0/15
 Left Out: -8.034 ± 0.070 χ^2/NDF : 12568.0/24
 Right Out: -3.581 ± 0.086 χ^2/NDF : 4172.9/17
 Left In: -8.078 ± 0.072 χ^2/NDF : 10541.6/22

Left: -8.055 ± 0.050 χ^2/NDF : 23109.8/47
 Right: -4.052 ± 0.064 χ^2/NDF : 5801.4/33
 In: -6.849 ± 0.058 χ^2/NDF : 12921.2/38
 Out: -6.261 ± 0.055 χ^2/NDF : 18338.0/42

All: -6.539 ± 0.040 χ^2/NDF : 31314.1/81

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.102 ± 0.051 $\chi^2/\text{NDF}: 52947.2/32$

Left Out: 1.518 ± 0.054 $\chi^2/\text{NDF}: 4847.5/24$

Right Out: -1.527 ± 0.053 $\chi^2/\text{NDF}: 64315.6/36$

Left In: 1.662 ± 0.057 $\chi^2/\text{NDF}: 4034.2/22$

Left: 1.587 ± 0.039 $\chi^2/\text{NDF}: 8885.0/47$

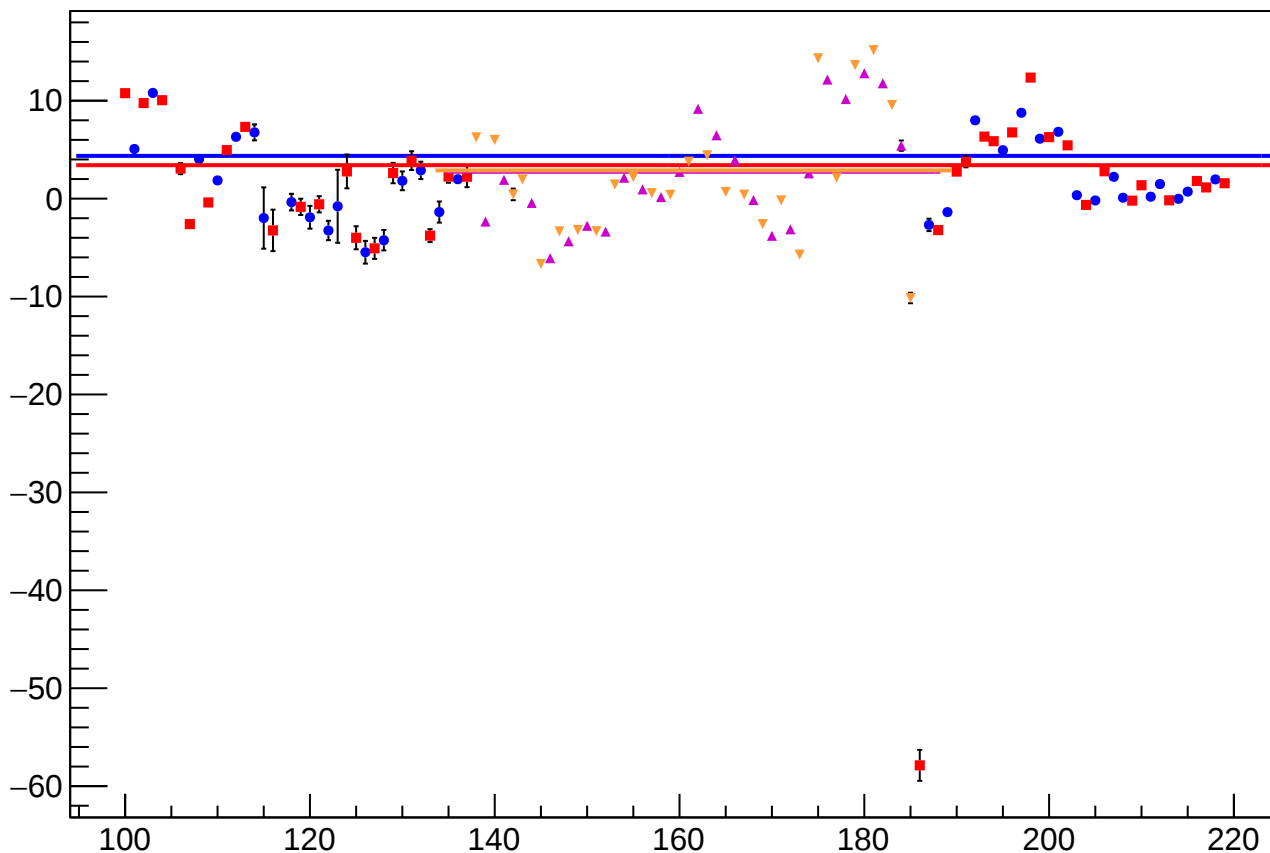
Right: -1.305 ± 0.037 $\chi^2/\text{NDF}: 117296.4/69$

In: 0.127 ± 0.038 $\chi^2/\text{NDF}: 58307.0/55$

Out: -0.047 ± 0.038 $\chi^2/\text{NDF}: 70775.7/61$

All: 0.041 ± 0.027 $\chi^2/\text{NDF}: 129093.3/117$

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.366+/-0.065 χ^2/NDF : 3347.6/32

Left Out: 2.884+/-0.070 χ^2/NDF : 8893.2/24

Right Out: 3.415+/-0.061 χ^2/NDF : 8149.6/36

Left In: 2.745+/-0.071 χ^2/NDF : 7183.1/22

Left: 2.816+/-0.050 χ^2/NDF : 16078.2/47

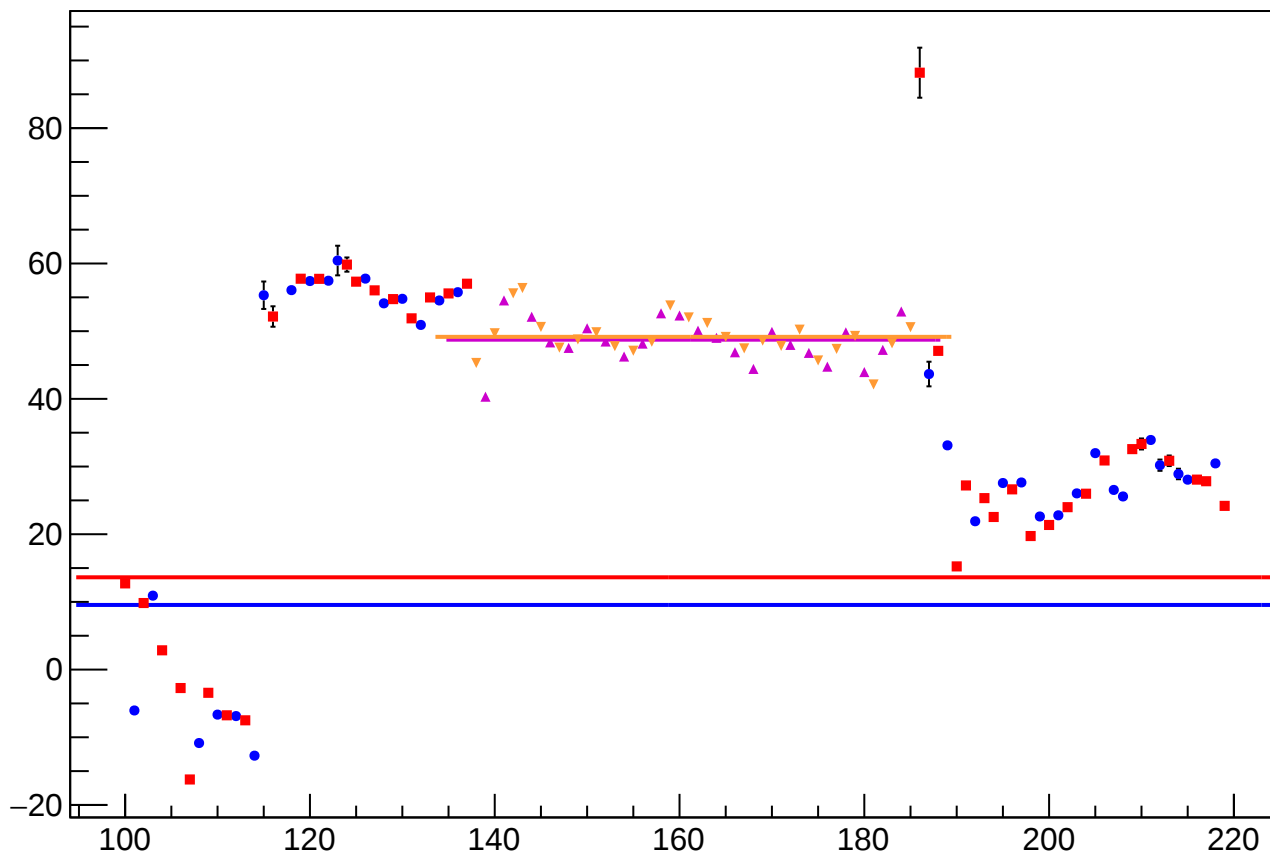
Right: 3.864+/-0.044 χ^2/NDF : 11611.6/69

In: 3.638+/-0.048 χ^2/NDF : 10813.9/55

Out: 3.186+/-0.046 χ^2/NDF : 17075.3/61

All: 3.403+/-0.033 χ^2/NDF : 27935.3/117

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.551+/-0.060 χ^2/NDF : 137944.9/32

Left Out: 49.163+/-0.062 χ^2/NDF :2259.9/24

Right Out: 13.635+/-0.063 χ^2/NDF : 138810.7/36

Left In: 48.744+/-0.064 χ^2/NDF :2097.7/22

Left: 48.960+/-0.044 χ^2/NDF : 4380.0/47

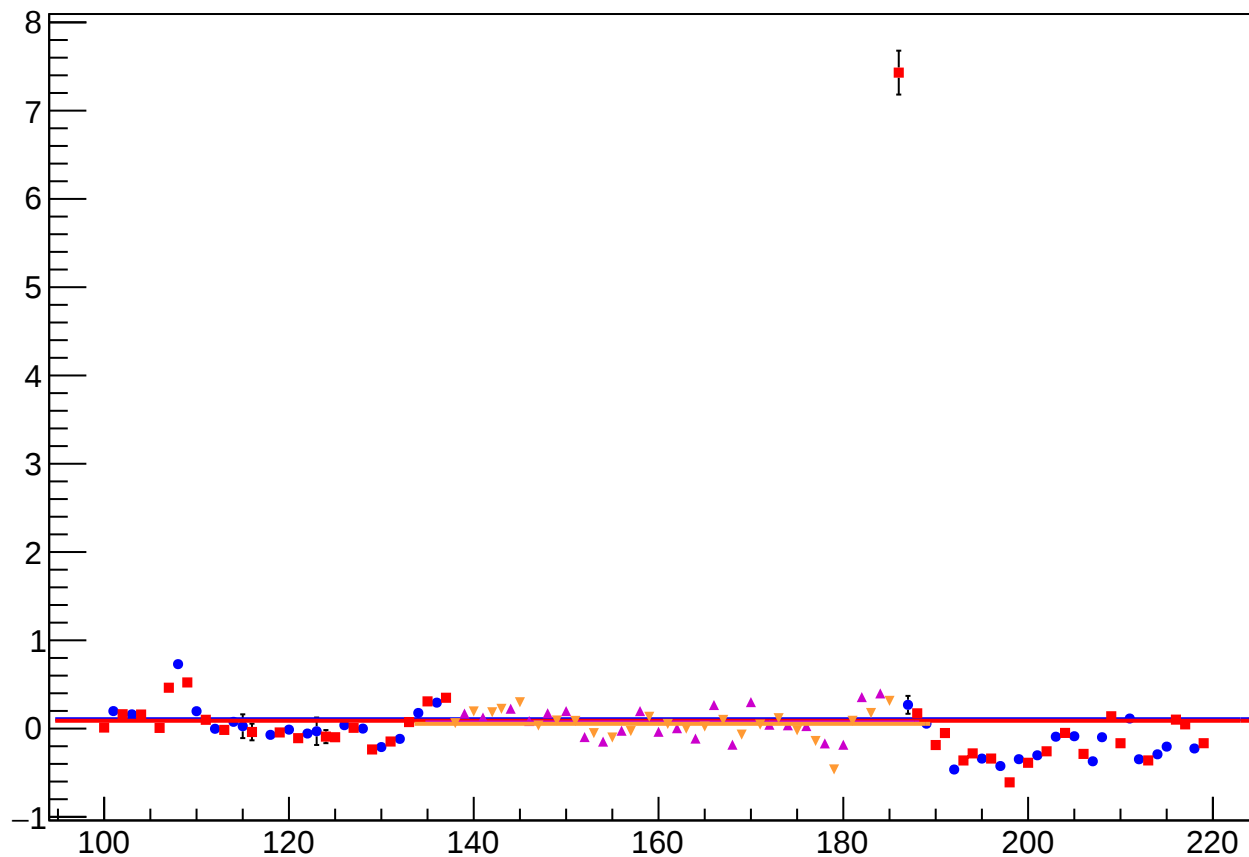
Right: 11.492+/-0.043 χ^2/NDF : 278994.3/69

In: 27.794+/-0.044 χ^2/NDF :341971.9/55

Out: 31.628+/-0.044 χ^2/NDF :304505.0/61

All: 29.692+/-0.031 χ^2/NDF : 650320.8/117

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.106 $\pm$ 0.002 χ^2 /NDF: 11998.4/32

Left Out: 0.054 $\pm$ 0.003 χ^2 /NDF:2379.8/24

Right Out: 0.089 $\pm$ 0.002 χ^2 /NDF: 11152.9/36

Left In: 0.070 $\pm$ 0.003 χ^2 /NDF:3233.8/22

Left: 0.062 $\pm$ 0.002 χ^2 /NDF: 5630.0/47

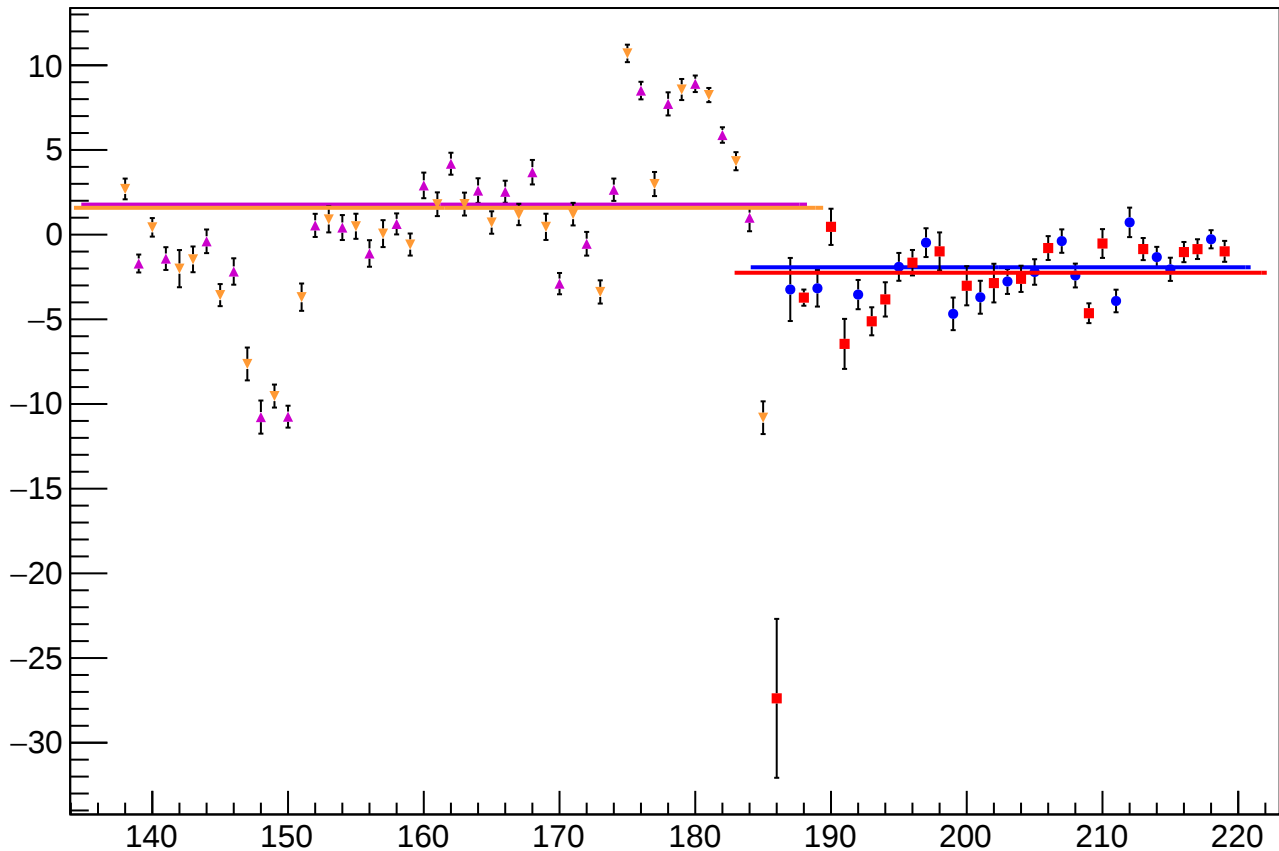
Right: 0.097 $\pm$ 0.002 χ^2 /NDF: 23177.5/69

In: 0.091 $\pm$ 0.002 χ^2 /NDF:15322.8/55

Out: 0.074 $\pm$ 0.002 χ^2 /NDF:13621.8/61

All: 0.083 $\pm$ 0.001 χ^2 /NDF: 28985.2/117

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.928 ± 0.192 χ^2/NDF : 55.4/15

Left Out: 1.584 ± 0.133 χ^2/NDF : 1458.8/24

Right Out: -2.250 ± 0.180 χ^2/NDF : 113.8/17

Left In: 1.774 ± 0.135 χ^2/NDF : 1297.3/22

Left: 1.677 ± 0.095 χ^2/NDF : 2757.2/47

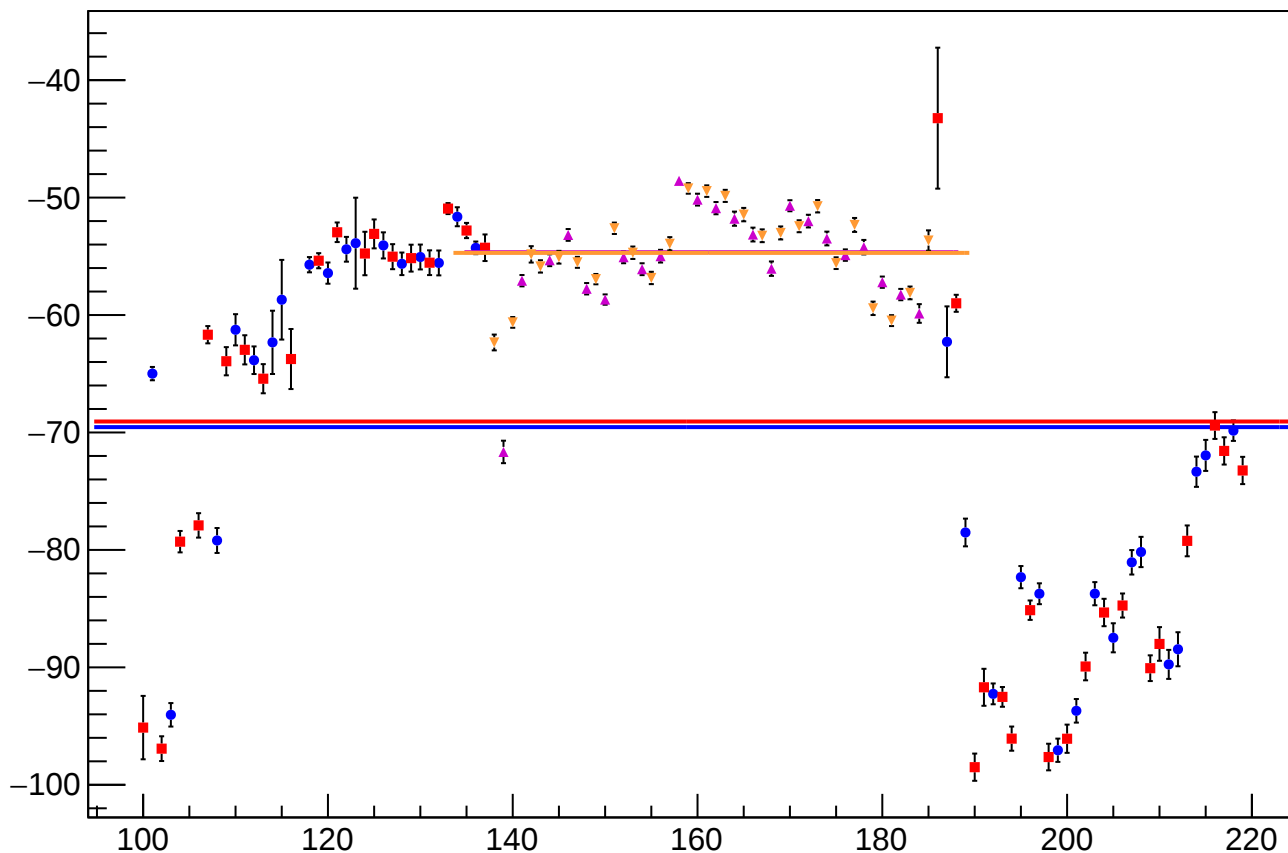
Right: -2.100 ± 0.131 χ^2/NDF : 170.6/33

In: 0.546 ± 0.111 χ^2/NDF : 1601.2/38

Out: 0.230 ± 0.107 χ^2/NDF : 1867.6/42

All: 0.383 ± 0.077 χ^2/NDF : 3473.0/81

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -69.544 ± 0.174 χ^2/NDF : 7335.2/32

Left Out: -54.707 ± 0.106 χ^2/NDF : 1126.0/24

Right Out: -69.066 ± 0.164 χ^2/NDF : 10393.1/36

Left In: -54.650 ± 0.110 χ^2/NDF : 1077.1/22

Left: -54.680 ± 0.076 χ^2/NDF : 2203.2/47

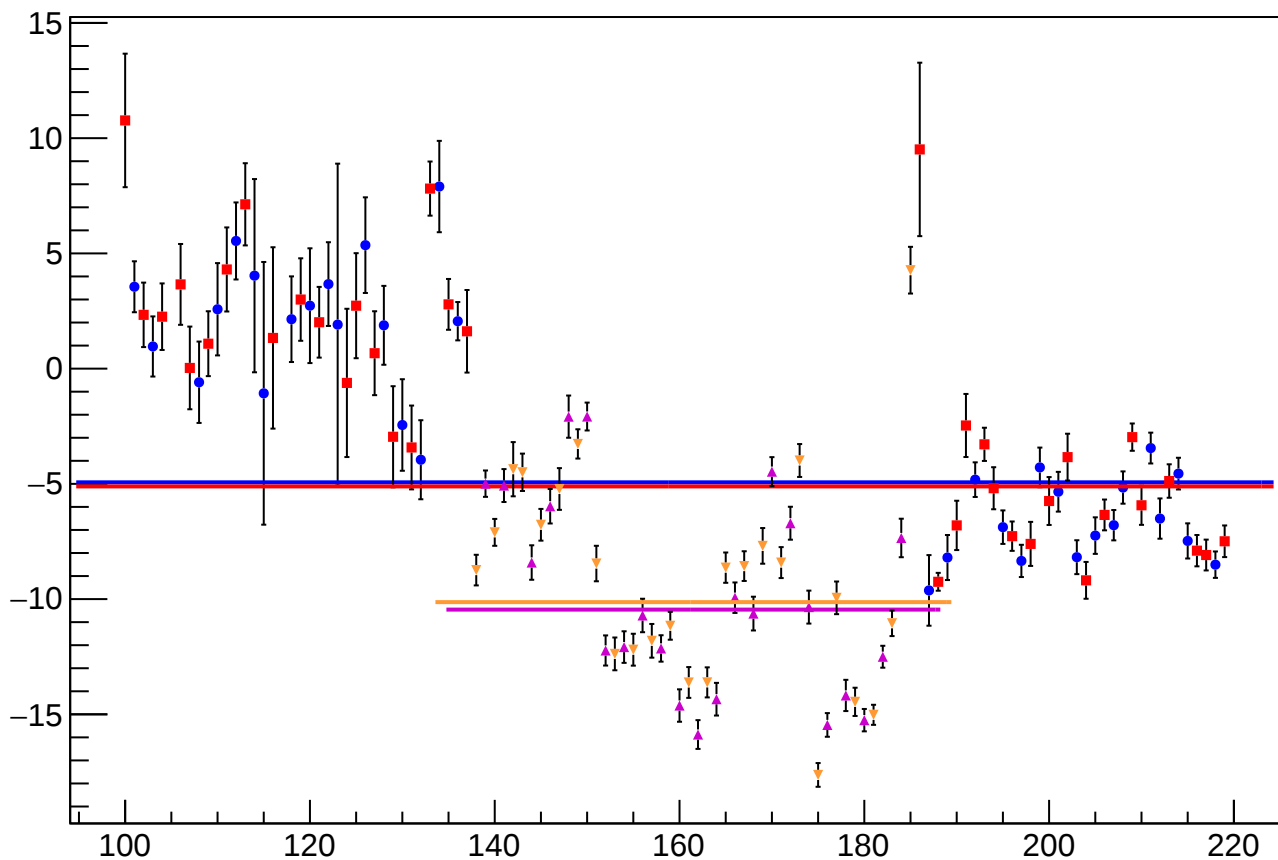
Right: -69.291 ± 0.119 χ^2/NDF : 17732.3/69

In: -58.892 ± 0.093 χ^2/NDF : 13654.4/55

Out: -58.919 ± 0.089 χ^2/NDF : 16932.7/61

All: -58.906 ± 0.064 χ^2/NDF : 30587.2/117

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.934 ± 0.171 $\chi^2/\text{NDF}: 492.9/32$

Left Out: -10.131 ± 0.133 $\chi^2/\text{NDF}: 1055.4/24$

Right Out: -5.111 ± 0.158 $\chi^2/\text{NDF}: 722.0/36$

Left In: -10.456 ± 0.135 $\chi^2/\text{NDF}: 1002.7/22$

Left: -10.291 ± 0.095 $\chi^2/\text{NDF}: 2061.1/47$

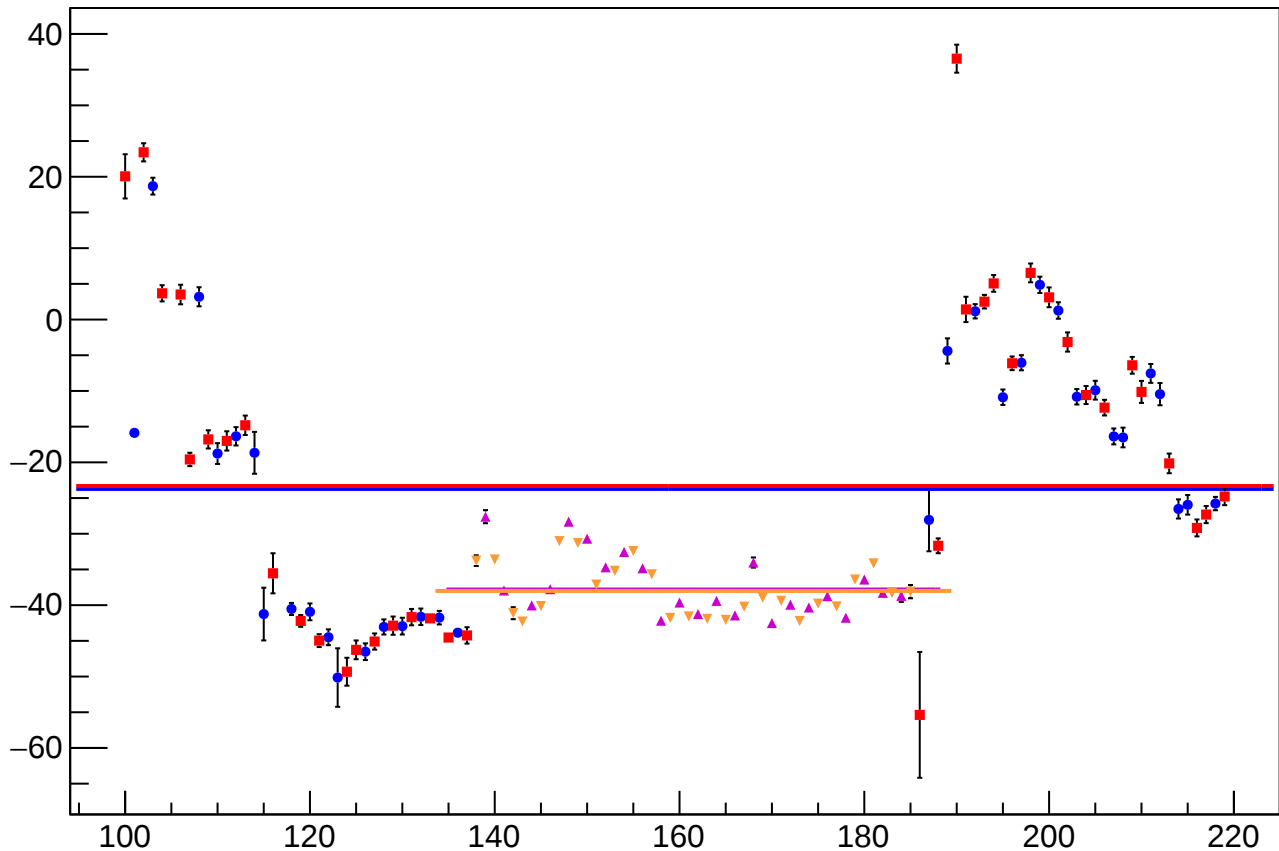
Right: -5.029 ± 0.116 $\chi^2/\text{NDF}: 1215.4/69$

In: -8.345 ± 0.106 $\chi^2/\text{NDF}: 2138.7/55$

Out: -8.060 ± 0.102 $\chi^2/\text{NDF}: 2366.9/61$

All: -8.197 ± 0.073 $\chi^2/\text{NDF}: 4509.4/117$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -23.721 ± 0.197 $\chi^2/\text{NDF}: 8674.2/32$

Left Out: -38.006 ± 0.119 $\chi^2/\text{NDF}: 946.0/24$

Right Out: -23.314 ± 0.189 $\chi^2/\text{NDF}: 11929.9/36$

Left In: -37.809 ± 0.122 $\chi^2/\text{NDF}: 1039.9/22$

Left: -37.910 ± 0.085 $\chi^2/\text{NDF}: 1987.2/47$

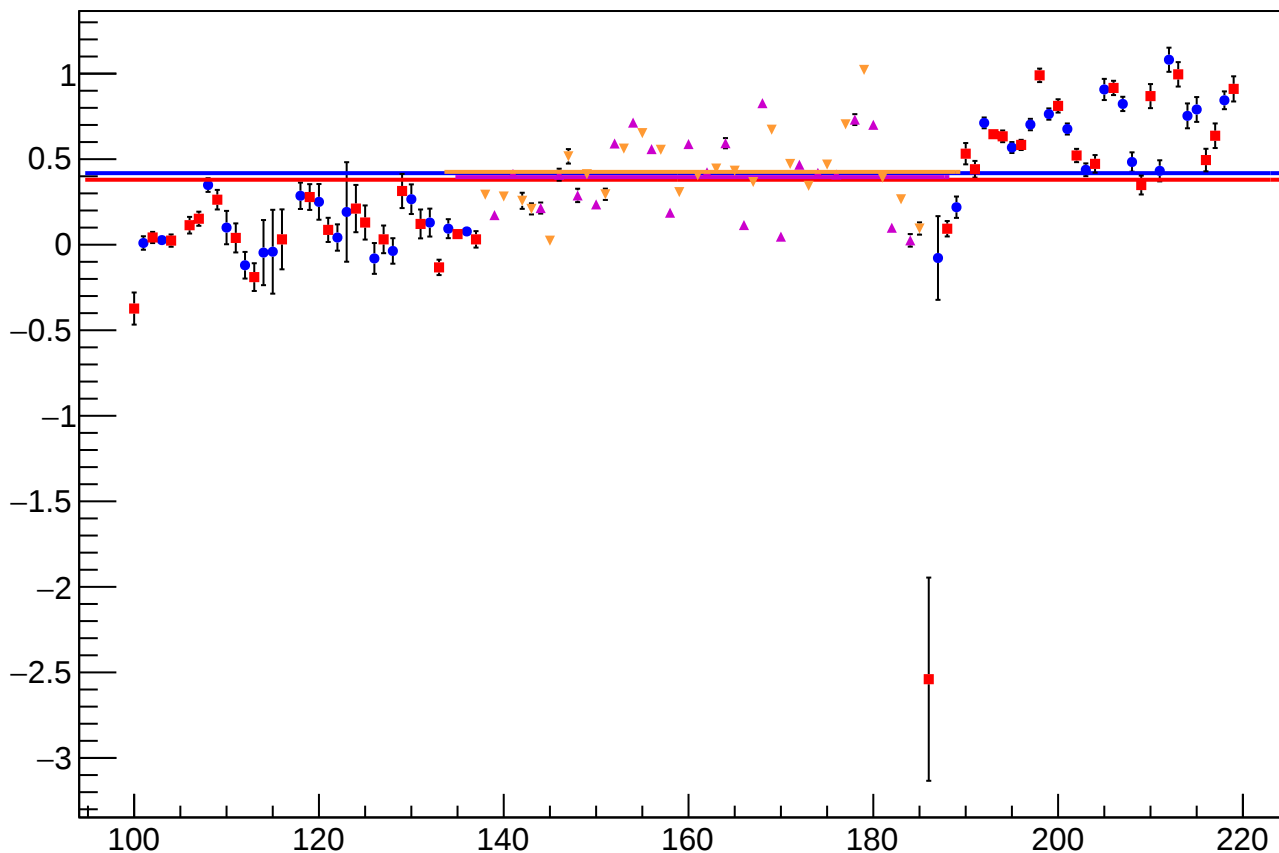
Right: -23.509 ± 0.136 $\chi^2/\text{NDF}: 20606.3/69$

In: -33.881 ± 0.104 $\chi^2/\text{NDF}: 13414.7/55$

Out: -33.842 ± 0.101 $\chi^2/\text{NDF}: 17215.1/61$

All: -33.861 ± 0.072 $\chi^2/\text{NDF}: 30629.9/117$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.418 $\pm$ 0.008 χ^2 /NDF: 1470.8/32

Left Out: 0.426 $\pm$ 0.005 χ^2 /NDF:1303.7/24

Right Out: 0.380 $\pm$ 0.008 χ^2 /NDF: 1776.3/36

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

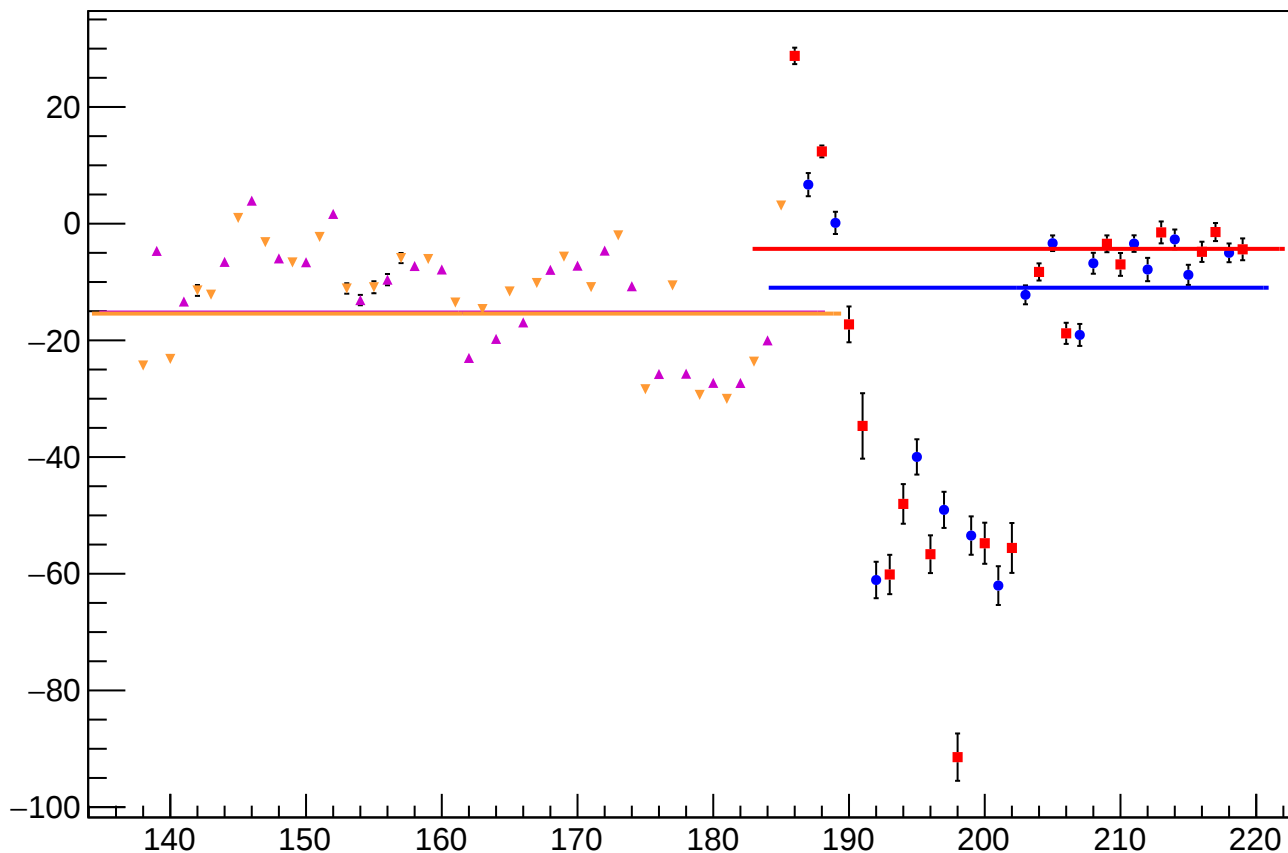
Right: 0.398 $\pm$ 0.006 χ^2 /NDF: 3258.0/69

In: 0.402 $\pm$ 0.005 χ^2 /NDF:3274.4/55

Out: 0.412 $\pm$ 0.004 χ^2 /NDF:3102.5/61

All: 0.407 $\pm$ 0.003 χ^2 /NDF: 6379.2/117

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -10.977 ± 0.478 $\chi^2/\text{NDF}: 1143.6/15$

Left Out: -15.413 ± 0.105 $\chi^2/\text{NDF}: 10509.1/24$

Right Out: -4.317 ± 0.451 $\chi^2/\text{NDF}: 2460.5/17$

Left In: -15.229 ± 0.107 $\chi^2/\text{NDF}: 8657.3/22$

Left: -15.322 ± 0.075 $\chi^2/\text{NDF}: 19167.9/47$

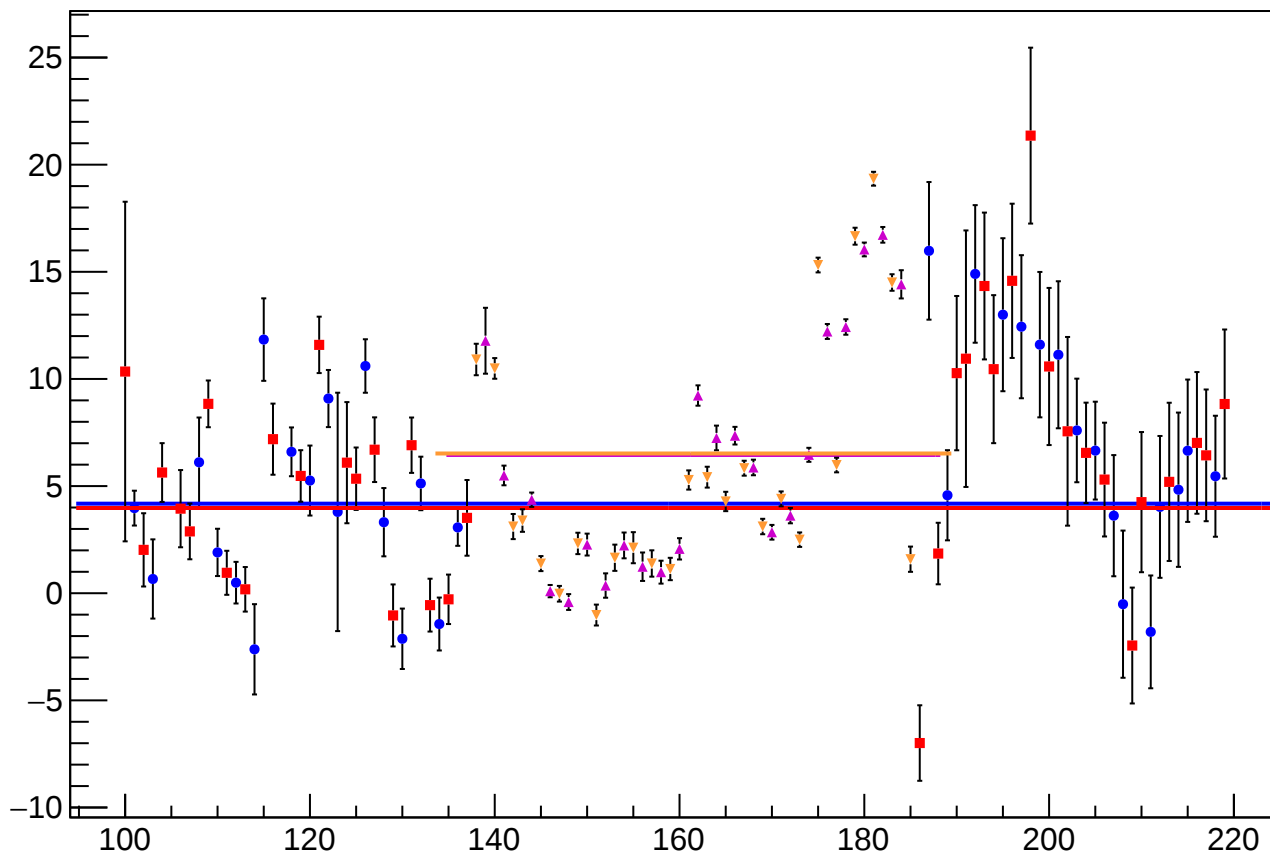
Right: -7.455 ± 0.328 $\chi^2/\text{NDF}: 3706.7/33$

In: -15.028 ± 0.104 $\chi^2/\text{NDF}: 9876.3/38$

Out: -14.840 ± 0.102 $\chi^2/\text{NDF}: 13543.4/42$

All: -14.932 ± 0.073 $\chi^2/\text{NDF}: 23421.3/81$

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.179 ± 0.286 χ^2/NDF : 194.5/32

Left Out: 6.521 ± 0.085 χ^2/NDF : 4985.2/24

Right Out: 3.978 ± 0.286 χ^2/NDF : 232.9/36

Left In: 6.452 ± 0.086 χ^2/NDF : 3948.0/22

Left: 6.487 ± 0.061 χ^2/NDF : 8933.5/47

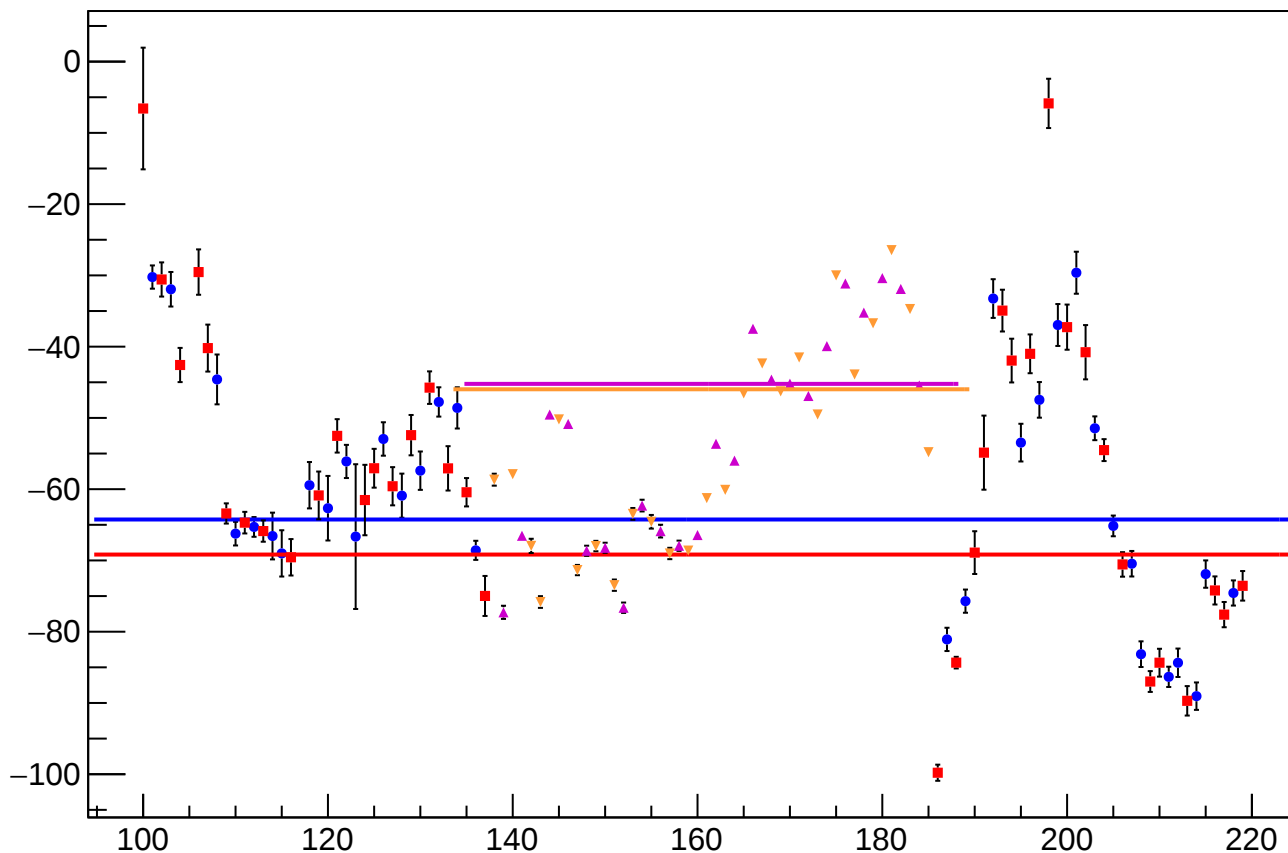
Right: 4.078 ± 0.202 χ^2/NDF : 427.6/69

In: 6.263 ± 0.082 χ^2/NDF : 4200.3/55

Out: 6.313 ± 0.082 χ^2/NDF : 5290.7/61

All: 6.288 ± 0.058 χ^2/NDF : 9491.2/117

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.255 ± 0.357 $\chi^2/\text{NDF}: 2109.6/32$

Left Out: -45.982 ± 0.106 $\chi^2/\text{NDF}: 17360.1/24$

Right Out: -69.174 ± 0.333 $\chi^2/\text{NDF}: 3298.7/36$

Left In: -45.222 ± 0.107 $\chi^2/\text{NDF}: 15600.2/22$

Left: -45.605 ± 0.075 $\chi^2/\text{NDF}: 32985.7/47$

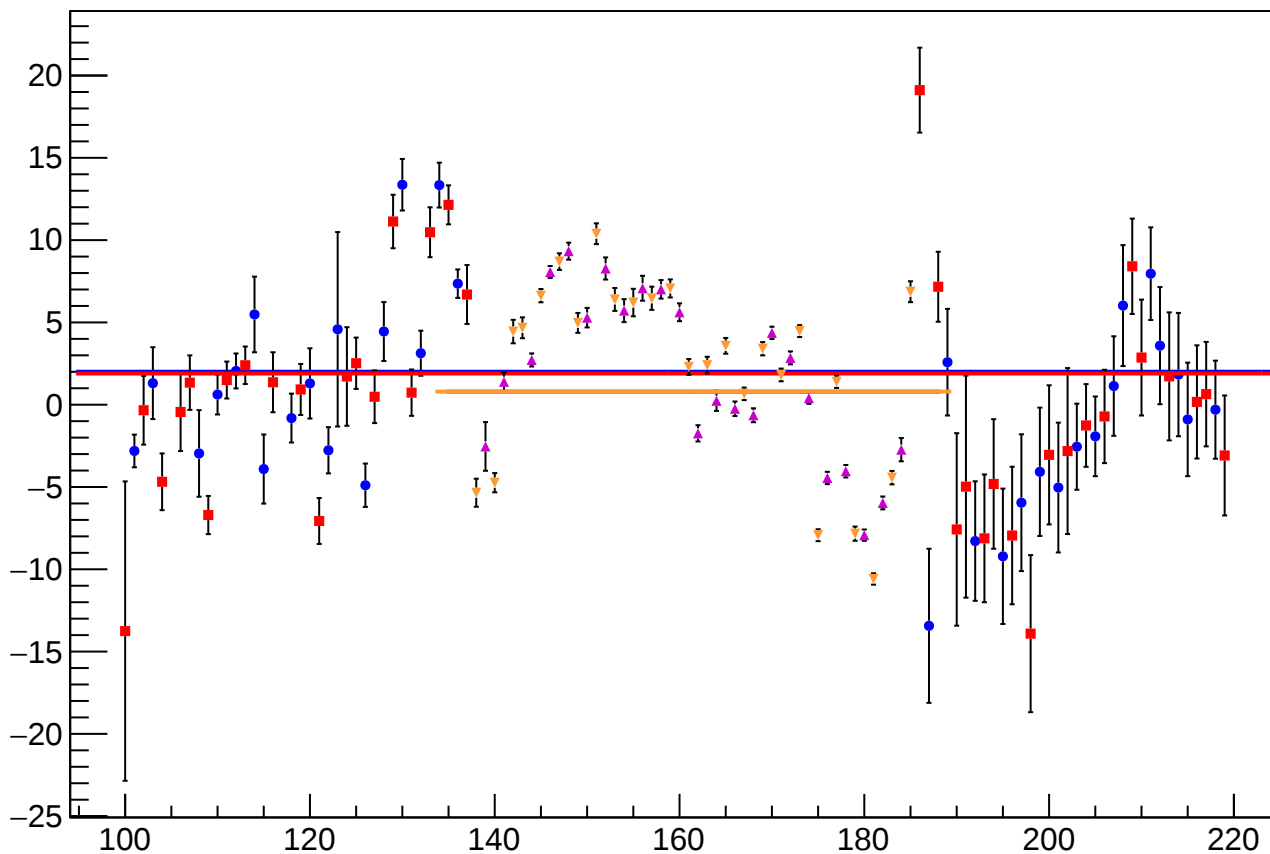
Right: -66.887 ± 0.243 $\chi^2/\text{NDF}: 5510.1/69$

In: -46.798 ± 0.103 $\chi^2/\text{NDF}: 20320.5/55$

Out: -48.130 ± 0.101 $\chi^2/\text{NDF}: 25070.7/61$

All: -47.473 ± 0.072 $\chi^2/\text{NDF}: 45476.5/117$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.004 ± 0.321 χ^2/NDF : 292.9/32

Left Out: 0.797 ± 0.096 χ^2/NDF : 3760.0/24

Right Out: 1.896 ± 0.325 χ^2/NDF : 357.1/36

Left In: 0.792 ± 0.097 χ^2/NDF : 2692.5/22

Left: 0.795 ± 0.068 χ^2/NDF : 6452.5/47

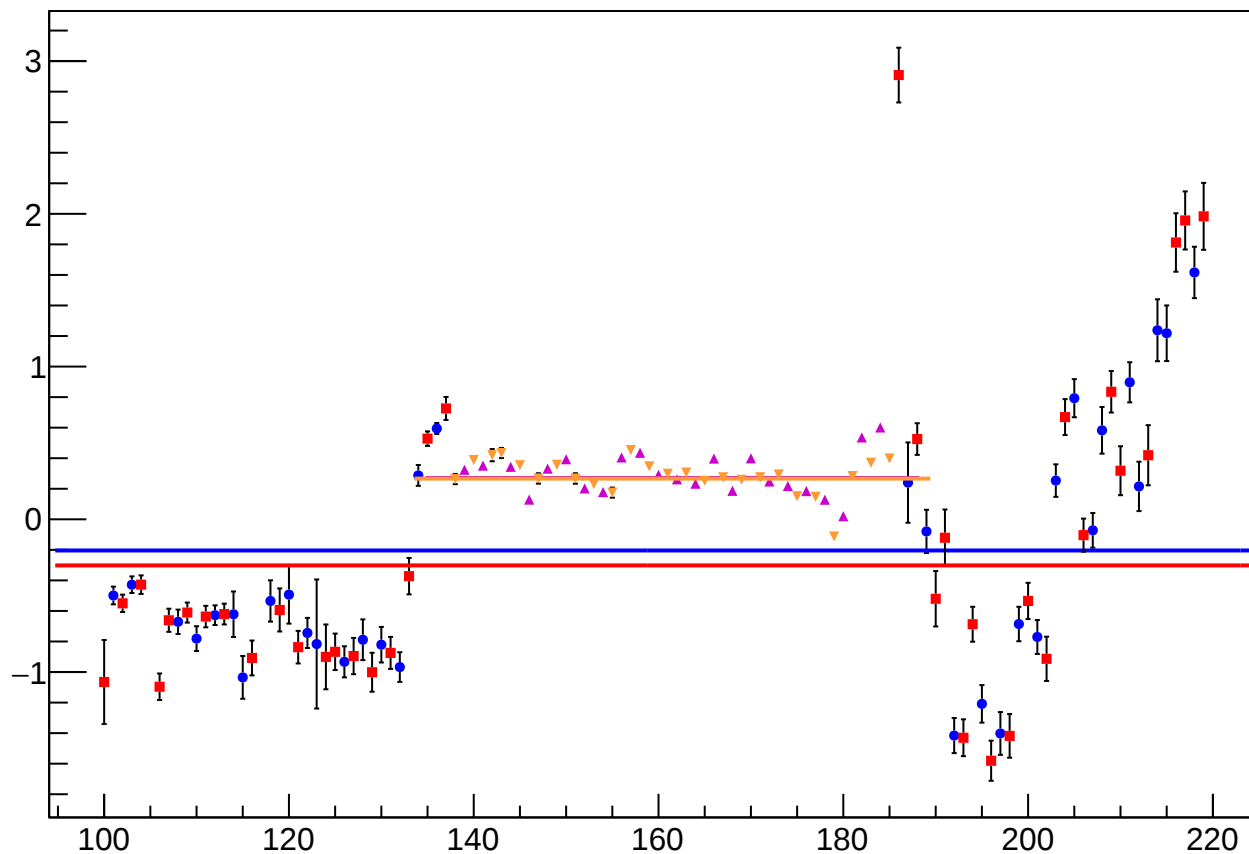
Right: 1.950 ± 0.228 χ^2/NDF : 650.0/69

In: 0.893 ± 0.092 χ^2/NDF : 2998.5/55

Out: 0.885 ± 0.092 χ^2/NDF : 4127.5/61

All: 0.889 ± 0.065 χ^2/NDF : 7126.0/117

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.204 ± 0.017 χ^2/NDF : 1673.9/32

Left Out: 0.267 ± 0.004 χ^2/NDF : 699.8/24

Right Out: -0.302 ± 0.016 χ^2/NDF : 2072.5/36

Left In: 0.270 ± 0.004 χ^2/NDF : 969.9/22

Left: 0.268 ± 0.003 χ^2/NDF : 1670.1/47

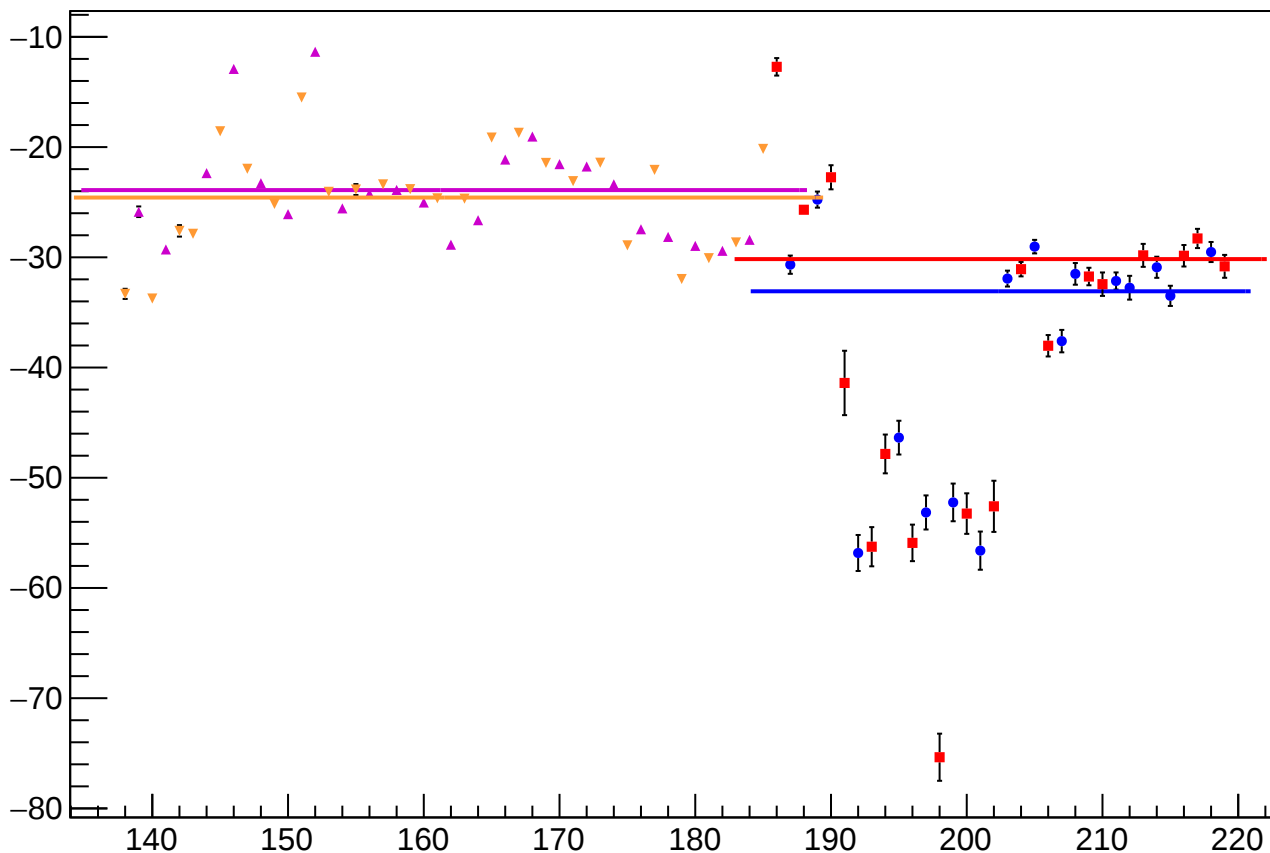
Right: -0.253 ± 0.012 χ^2/NDF : 3764.0/69

In: 0.239 ± 0.004 χ^2/NDF : 3414.0/55

Out: 0.229 ± 0.004 χ^2/NDF : 3882.6/61

All: 0.234 ± 0.003 χ^2/NDF : 7298.8/117

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.082 ± 0.237 χ^2/NDF : 993.8/15

Left Out: -24.577 ± 0.051 χ^2/NDF : 8590.4/24

Right Out: -30.162 ± 0.225 χ^2/NDF : 1988.6/17

Left In: -23.901 ± 0.051 χ^2/NDF : 9154.9/22

Left: -24.240 ± 0.036 χ^2/NDF : 17833.1/47

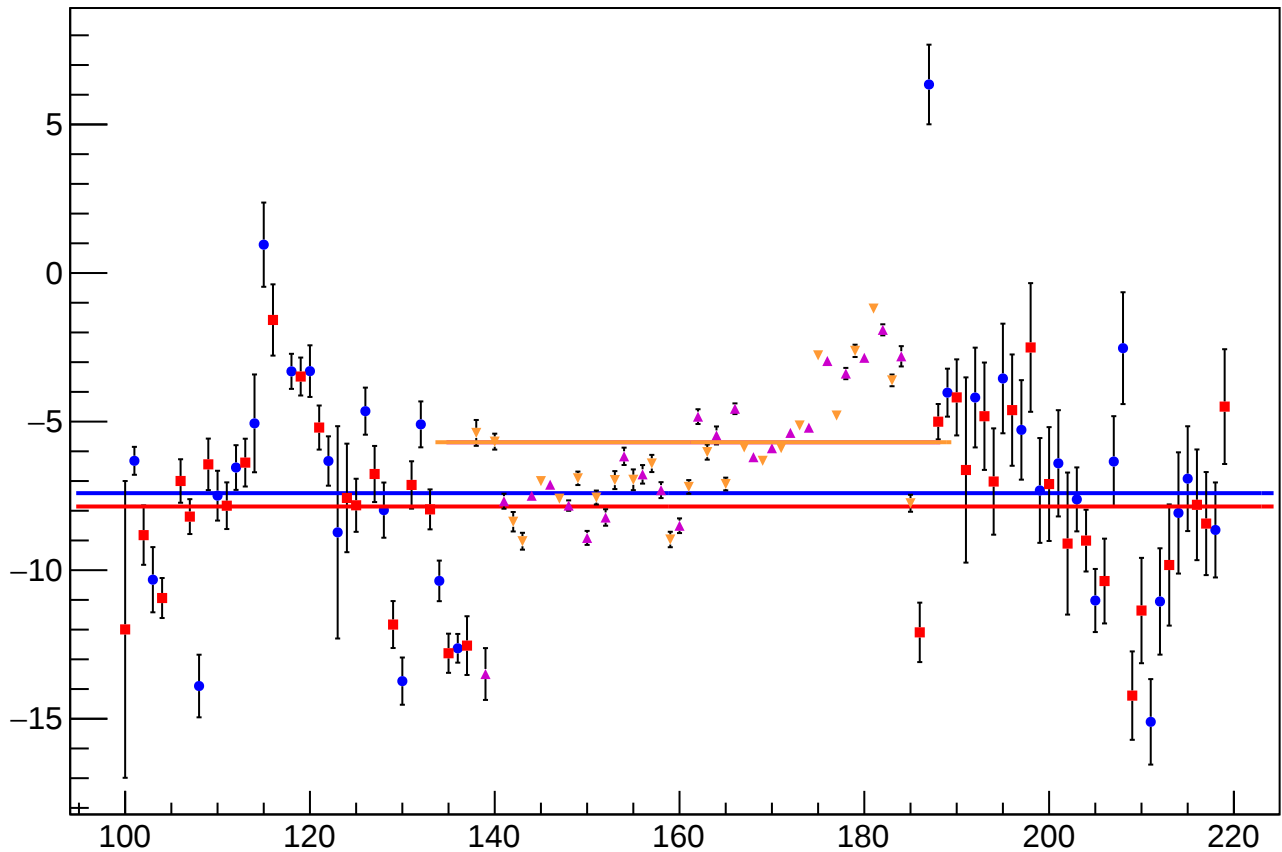
Right: -31.548 ± 0.163 χ^2/NDF : 3062.1/33

In: -24.309 ± 0.050 χ^2/NDF : 11583.0/38

Out: -24.849 ± 0.050 χ^2/NDF : 11163.9/42

All: -24.580 ± 0.035 χ^2/NDF : 22805.8/81

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.408 ± 0.166 χ^2/NDF : 566.4/32

Left Out: -5.694 ± 0.041 χ^2/NDF : 2258.3/24

Right Out: -7.857 ± 0.162 χ^2/NDF : 316.1/36

Left In: -5.696 ± 0.041 χ^2/NDF : 2309.8/22

Left: -5.695 ± 0.029 χ^2/NDF : 4568.1/47

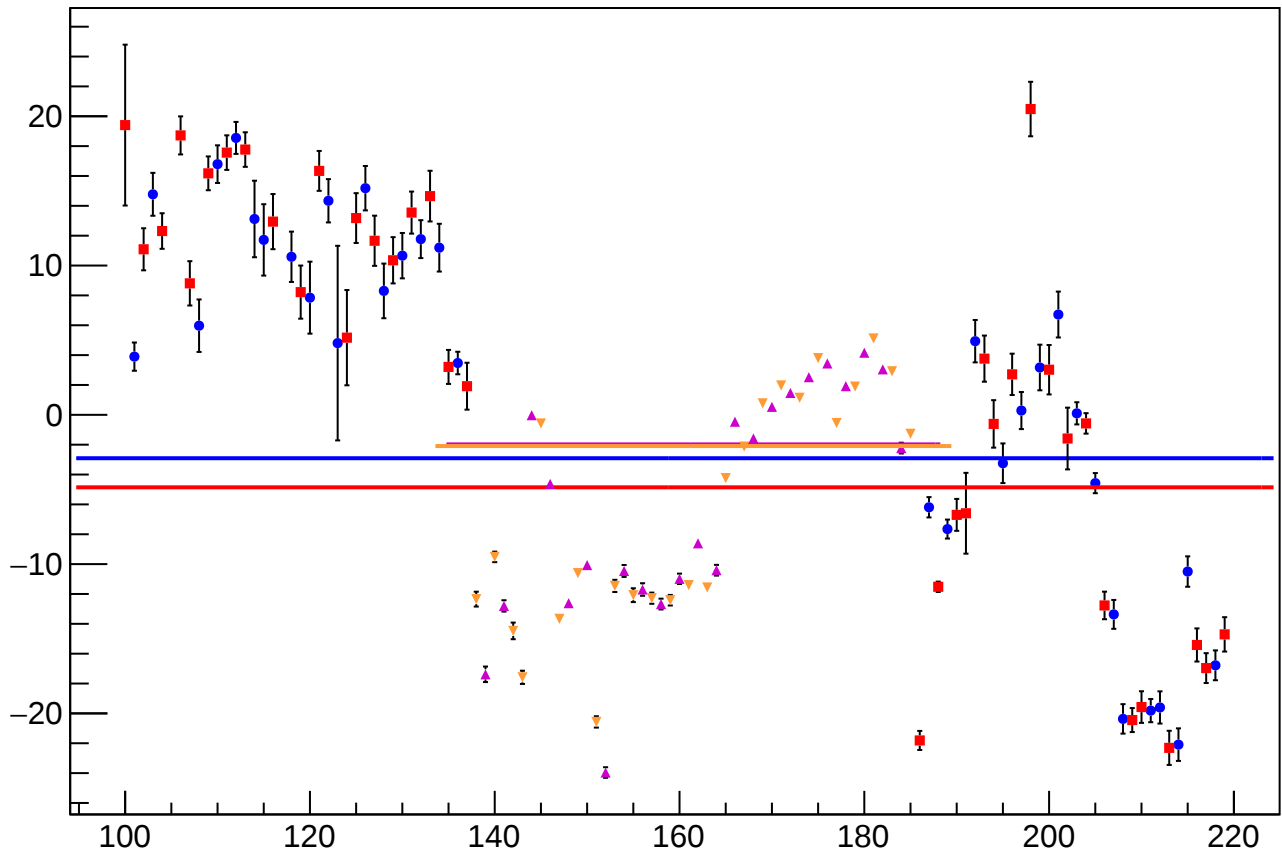
Right: -7.638 ± 0.116 χ^2/NDF : 886.2/69

In: -5.794 ± 0.040 χ^2/NDF : 2976.8/55

Out: -5.825 ± 0.040 χ^2/NDF : 2742.6/61

All: -5.810 ± 0.028 χ^2/NDF : 5719.7/117

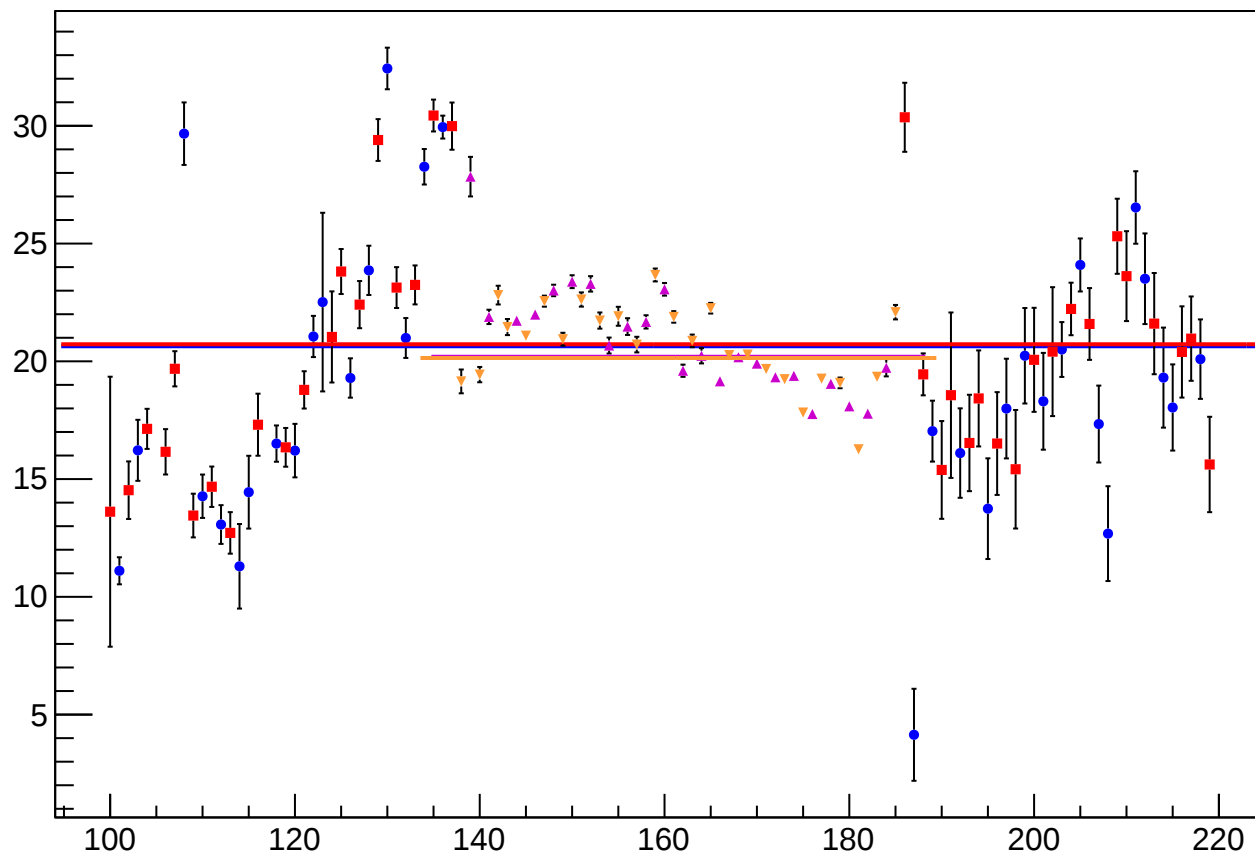
reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.907 ± 0.191 χ^2/NDF : 3617.9/32
 Left Out: -2.092 ± 0.051 χ^2/NDF : 16305.3/24
 Right Out: -4.857 ± 0.176 χ^2/NDF : 5566.8/36
 Left In: -1.980 ± 0.051 χ^2/NDF : 15382.3/22

Left: -2.036 ± 0.036 χ^2/NDF : 31690.0/47
 Right: -3.961 ± 0.130 χ^2/NDF : 9240.8/69
 In: -2.043 ± 0.050 χ^2/NDF : 19022.1/55
 Out: -2.308 ± 0.049 χ^2/NDF : 22098.5/61
 All: -2.176 ± 0.035 χ^2/NDF : 41135.1/117

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.640 $\pm$ 0.188 χ^2 /NDF: 1359.7/32

Left Out: 20.141 $\pm$ 0.046 χ^2 /NDF:1419.1/24

Right Out: 20.724 $\pm$ 0.188 χ^2 /NDF: 807.0/36

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

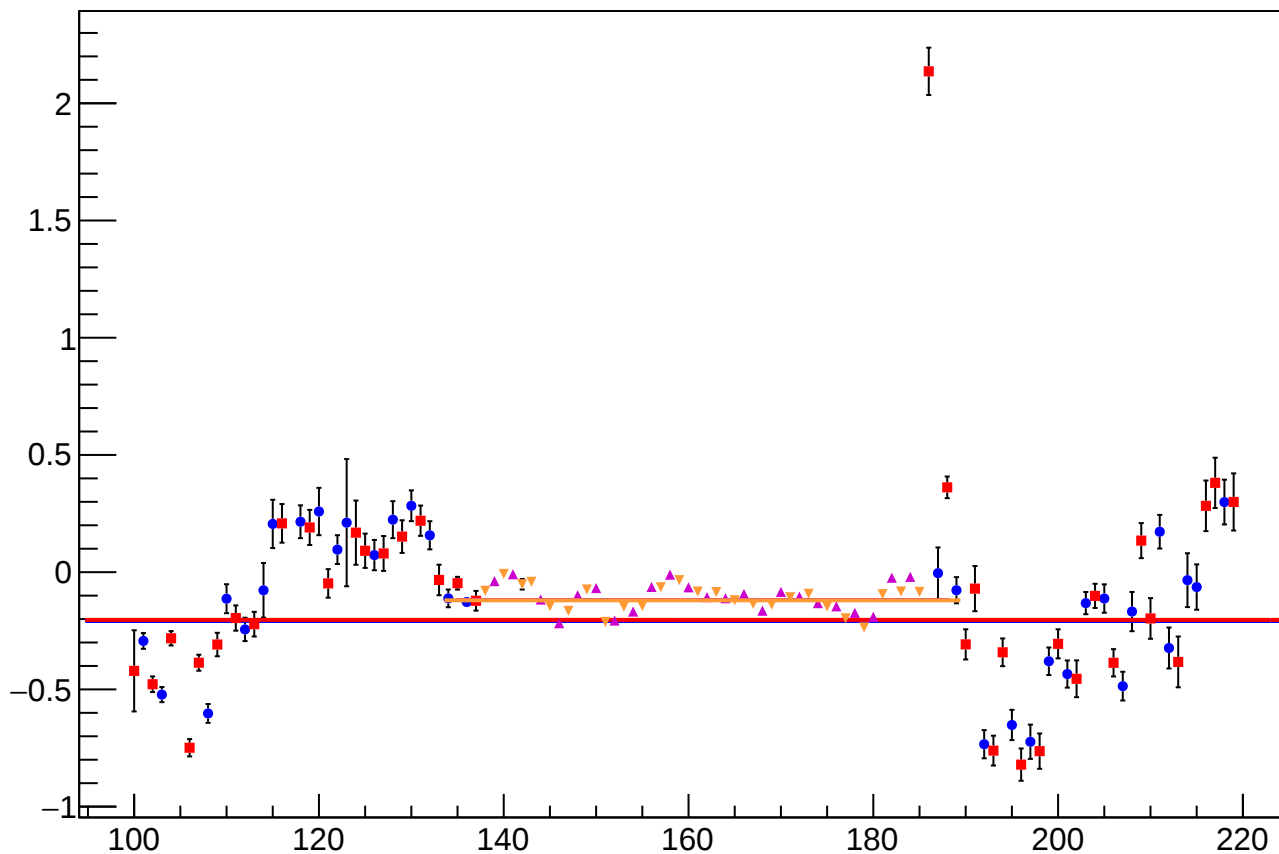
Right: 20.682 $\pm$ 0.133 χ^2 /NDF: 2166.8/69

In: 20.219 $\pm$ 0.045 χ^2 /NDF:2812.3/55

Out: 20.174 $\pm$ 0.045 χ^2 /NDF:2235.2/61

All: 20.196 $\pm$ 0.032 χ^2 /NDF: 5048.0/117

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.208 ± 0.009 $\chi^2/\text{NDF}: 762.4/32$

Left Out: -0.120 ± 0.002 $\chi^2/\text{NDF}: 530.4/24$

Right Out: -0.203 ± 0.009 $\chi^2/\text{NDF}: 1563.1/36$

Left In: -0.119 ± 0.002 $\chi^2/\text{NDF}: 721.8/22$

Left: -0.119 ± 0.001 $\chi^2/\text{NDF}: 1252.4/47$

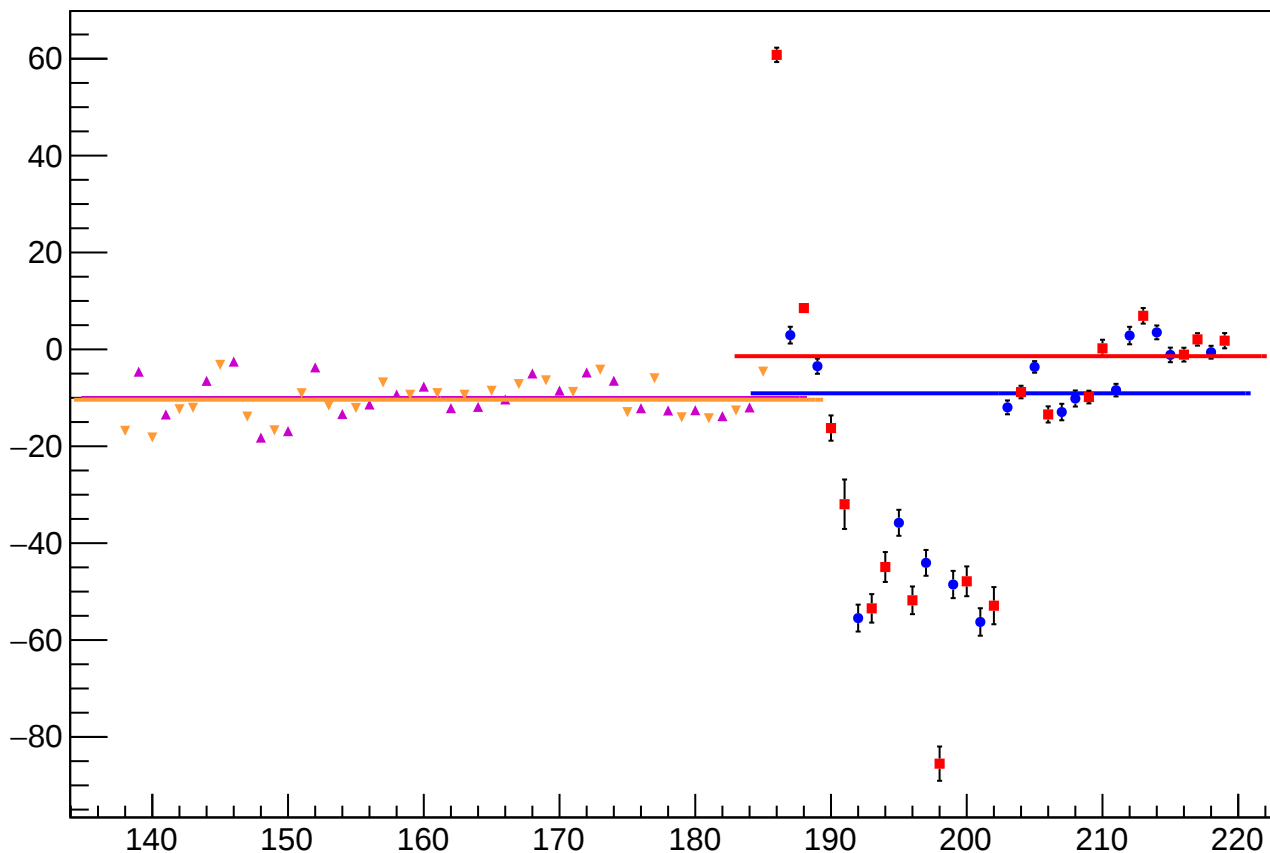
Right: -0.206 ± 0.007 $\chi^2/\text{NDF}: 2325.6/69$

In: -0.123 ± 0.002 $\chi^2/\text{NDF}: 1571.0/55$

Out: -0.124 ± 0.002 $\chi^2/\text{NDF}: 2171.9/61$

All: -0.124 ± 0.001 $\chi^2/\text{NDF}: 3743.0/117$

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.068 ± 0.419 χ^2/NDF : 1305.4/15

Left Out: -10.391 ± 0.088 χ^2/NDF : 2111.6/24

Right Out: -1.405 ± 0.398 χ^2/NDF : 3914.2/17

Left In: -10.036 ± 0.090 χ^2/NDF : 1758.7/22

Left: -10.217 ± 0.063 χ^2/NDF : 3878.3/47

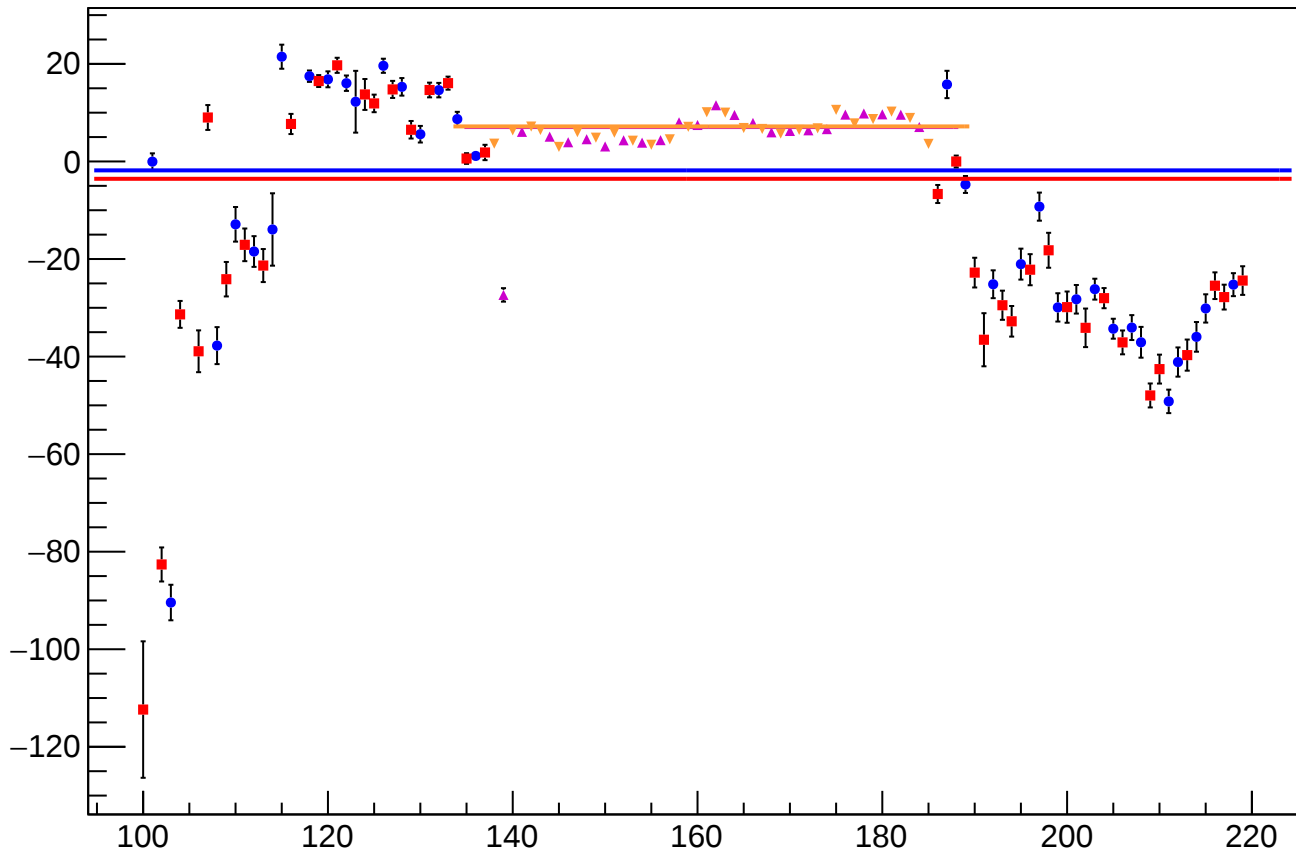
Right: -5.035 ± 0.288 χ^2/NDF : 5395.6/33

In: -9.994 ± 0.088 χ^2/NDF : 3069.2/38

Out: -9.973 ± 0.086 χ^2/NDF : 6512.8/42

All: -9.983 ± 0.061 χ^2/NDF : 9582.0/81

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.826 ± 0.344 χ^2/NDF : 3736.7/32

Left Out: 7.184 ± 0.073 χ^2/NDF : 917.3/24

Right Out: -3.557 ± 0.351 χ^2/NDF : 3591.1/36

Left In: 7.053 ± 0.074 χ^2/NDF : 1535.8/22

Left: 7.119 ± 0.052 χ^2/NDF : 2454.8/47

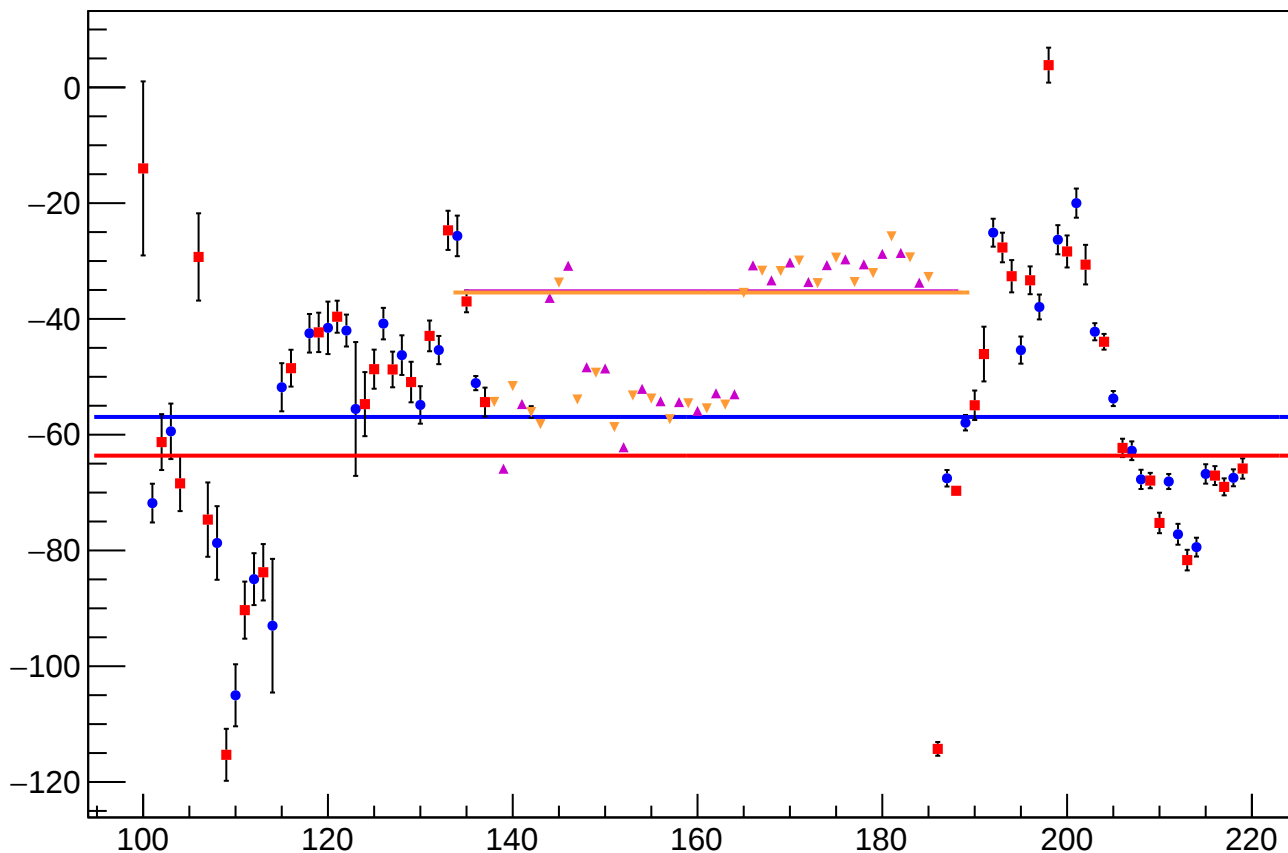
Right: -2.674 ± 0.245 χ^2/NDF : 7340.2/69

In: 6.657 ± 0.073 χ^2/NDF : 5910.8/55

Out: 6.732 ± 0.072 χ^2/NDF : 5407.0/61

All: 6.695 ± 0.051 χ^2/NDF : 11318.4/117

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -56.937 $\pm$ 0.362 χ^2 /NDF: 1725.1/32

Left Out: -35.434 $\pm$ 0.089 χ^2 /NDF:12782.8/24

Right Out: -63.622 $\pm$ 0.340 χ^2 /NDF: 4362.3/36

Left In: -35.229 $\pm$ 0.090 χ^2 /NDF:11602.9/22

Left: -35.333 $\pm$ 0.063 χ^2 /NDF: 24388.3/47

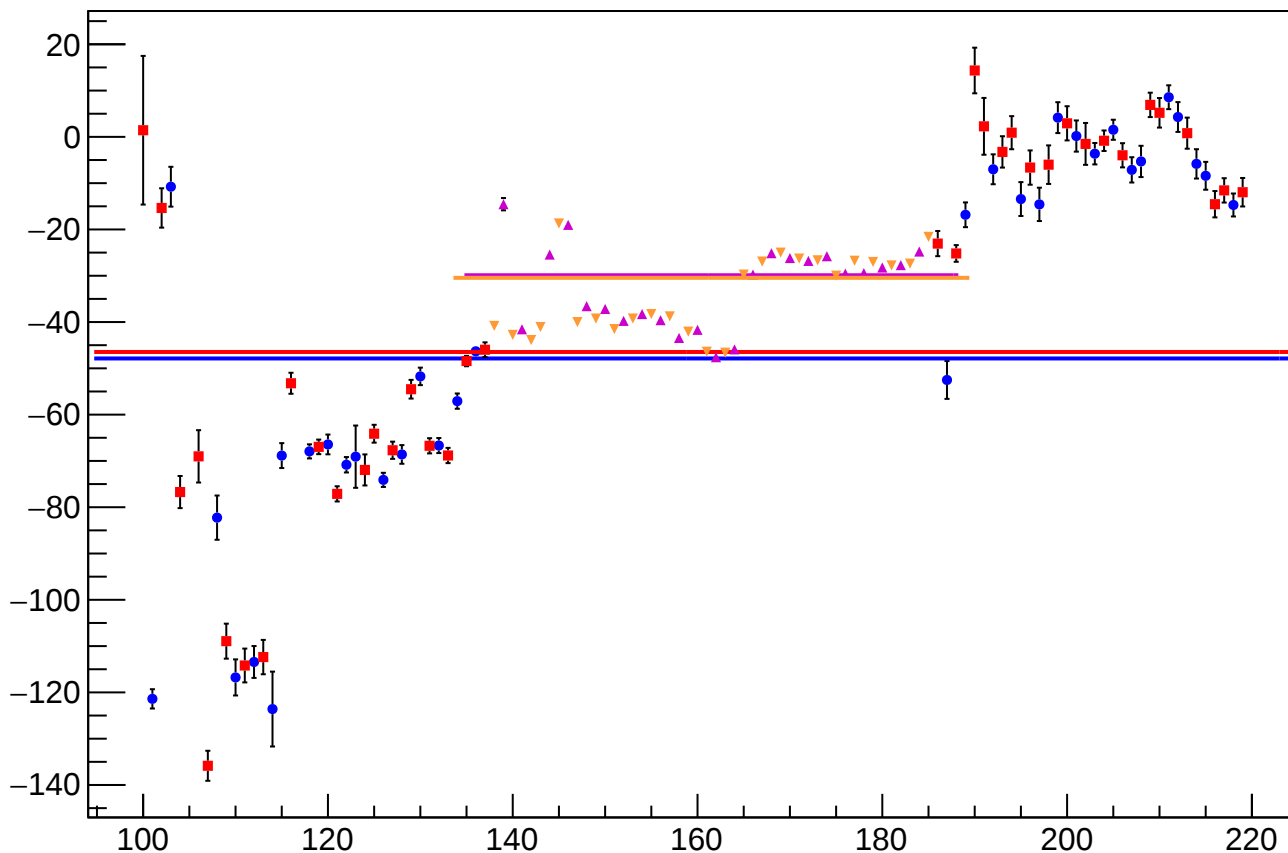
Right: -60.484 $\pm$ 0.248 χ^2 /NDF: 6268.7/69

In: -36.498 $\pm$ 0.087 χ^2 /NDF:16721.5/55

Out: -37.241 $\pm$ 0.086 χ^2 /NDF:23573.0/61

All: -36.875 $\pm$ 0.061 χ^2 /NDF: 40331.1/117

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -47.868 ± 0.383 $\chi^2/\text{NDF}: 6669.3/32$

Left Out: -30.448 ± 0.082 $\chi^2/\text{NDF}: 8167.7/24$

Right Out: -46.465 ± 0.400 $\chi^2/\text{NDF}: 6241.9/36$

Left In: -29.892 ± 0.083 $\chi^2/\text{NDF}: 7115.0/22$

Left: -30.174 ± 0.058 $\chi^2/\text{NDF}: 15305.7/47$

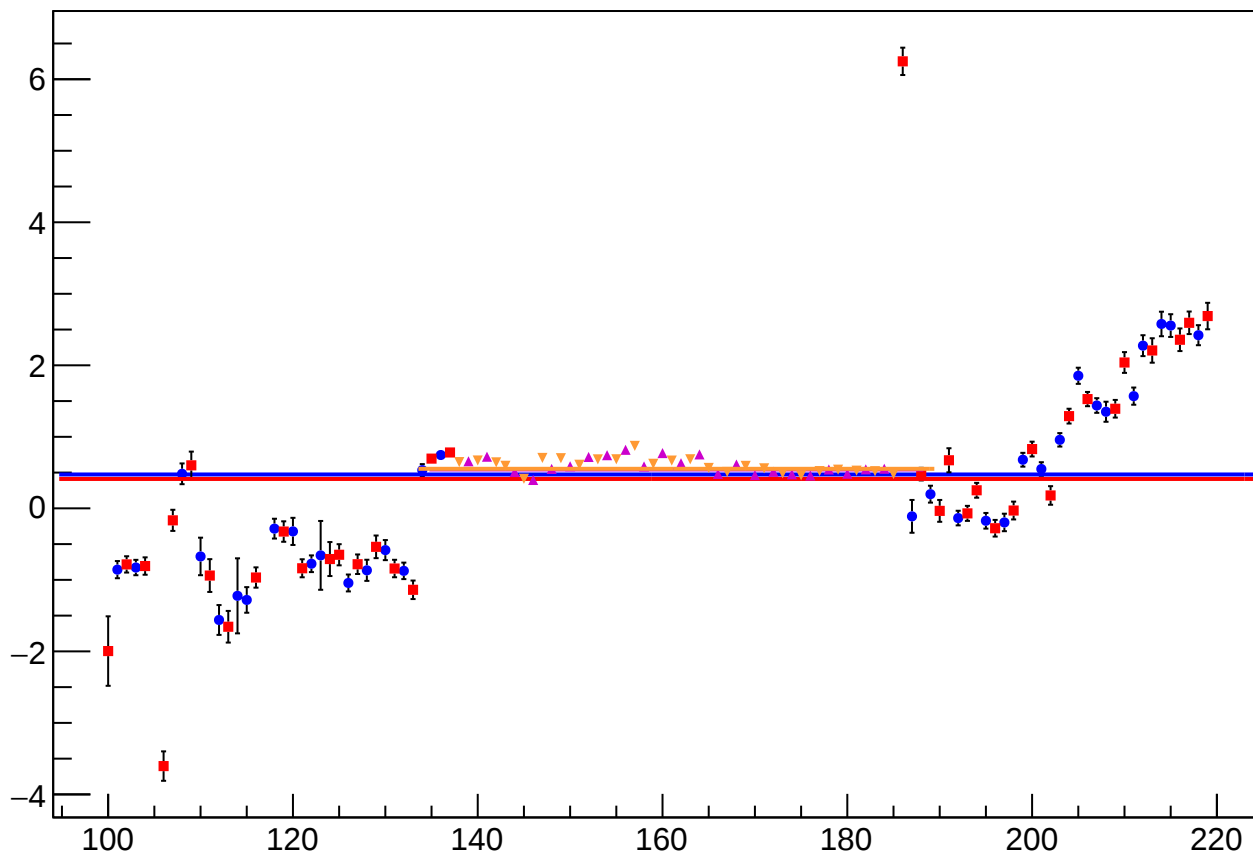
Right: -47.197 ± 0.277 $\chi^2/\text{NDF}: 12917.7/69$

In: -30.691 ± 0.081 $\chi^2/\text{NDF}: 15890.7/55$

Out: -31.087 ± 0.080 $\chi^2/\text{NDF}: 15950.6/61$

All: -30.891 ± 0.057 $\chi^2/\text{NDF}: 31853.5/117$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.474 $\pm$ 0.019 χ^2 /NDF: 2337.6/32

Left Out: 0.553 $\pm$ 0.004 χ^2 /NDF:542.1/24

Right Out: 0.411 $\pm$ 0.020 χ^2 /NDF: 3504.3/36

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

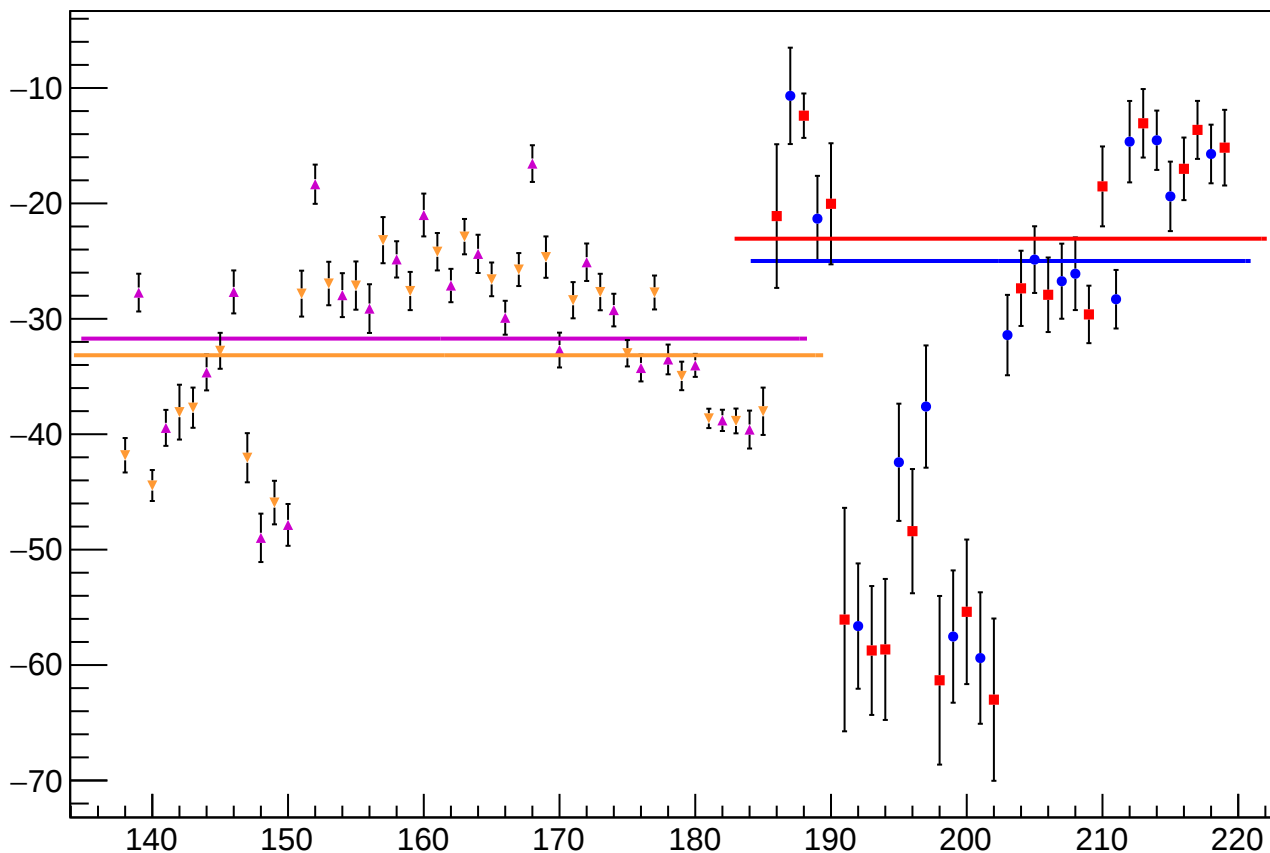
Right: 0.444 $\pm$ 0.014 χ^2 /NDF: 5847.3/69

In: 0.541 $\pm$ 0.004 χ^2 /NDF:3007.0/55

Out: 0.548 $\pm$ 0.004 χ^2 /NDF:4097.1/61

All: 0.544 $\pm$ 0.003 χ^2 /NDF: 7105.9/117

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

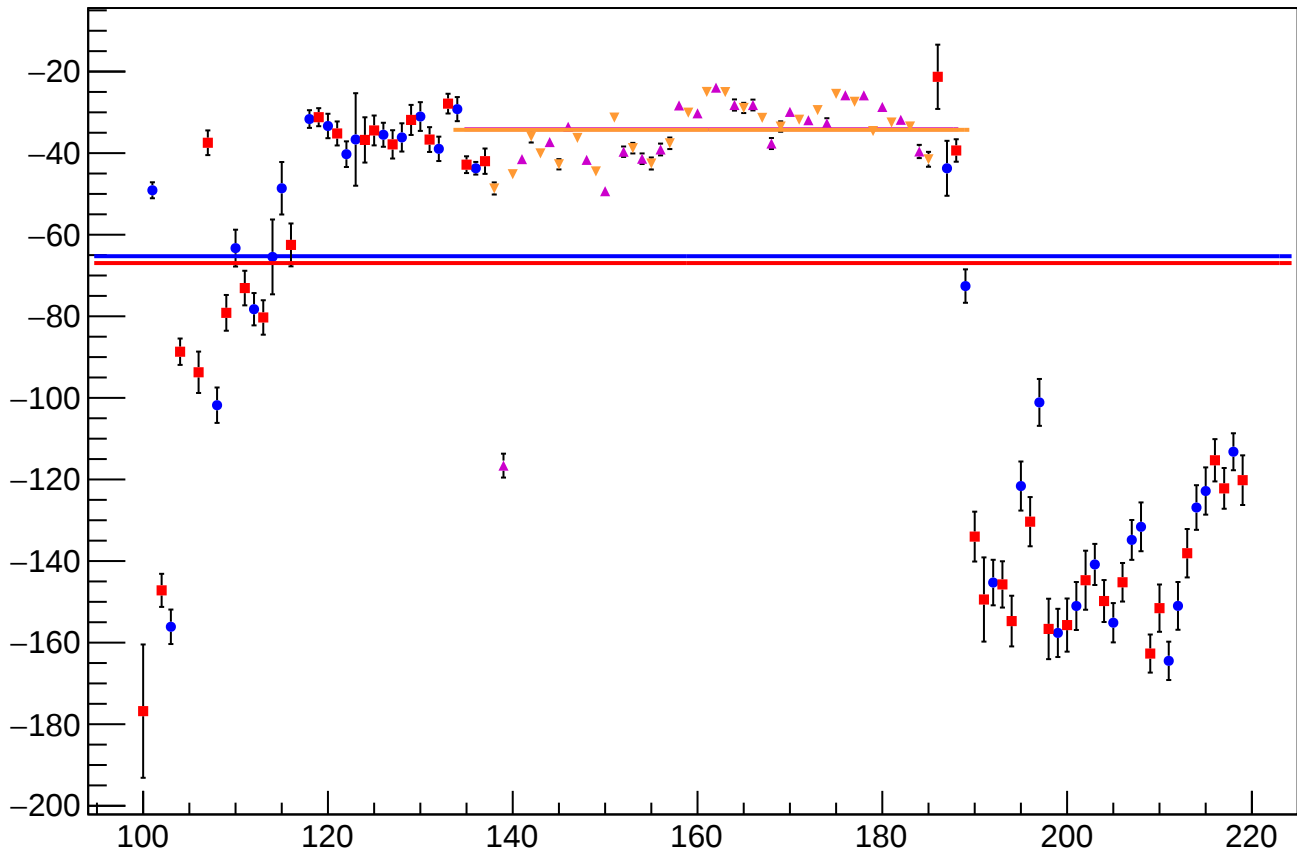


Right In: -24.989 ± 0.861 χ^2/NDF : 180.3/15
 Left Out: -33.157 ± 0.300 χ^2/NDF : 500.1/24
 Right Out: -23.058 ± 0.834 χ^2/NDF : 274.9/17
 Left In: -31.714 ± 0.309 χ^2/NDF : 542.3/22

Left: -32.456 ± 0.215 χ^2/NDF : 1053.6/47
 Right: -23.994 ± 0.599 χ^2/NDF : 457.8/33
 In: -30.947 ± 0.291 χ^2/NDF : 776.6/38
 Out: -31.999 ± 0.282 χ^2/NDF : 904.7/42

All: -31.488 ± 0.203 χ^2/NDF : 1688.0/81

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -65.268 ± 0.640 $\chi^2/\text{NDF}: 4427.9/32$

Left Out: -34.287 ± 0.241 $\chi^2/\text{NDF}: 695.3/24$

Right Out: -66.950 ± 0.655 $\chi^2/\text{NDF}: 4699.5/36$

Left In: -34.145 ± 0.251 $\chi^2/\text{NDF}: 1452.6/22$

Left: -34.219 ± 0.174 $\chi^2/\text{NDF}: 2148.1/47$

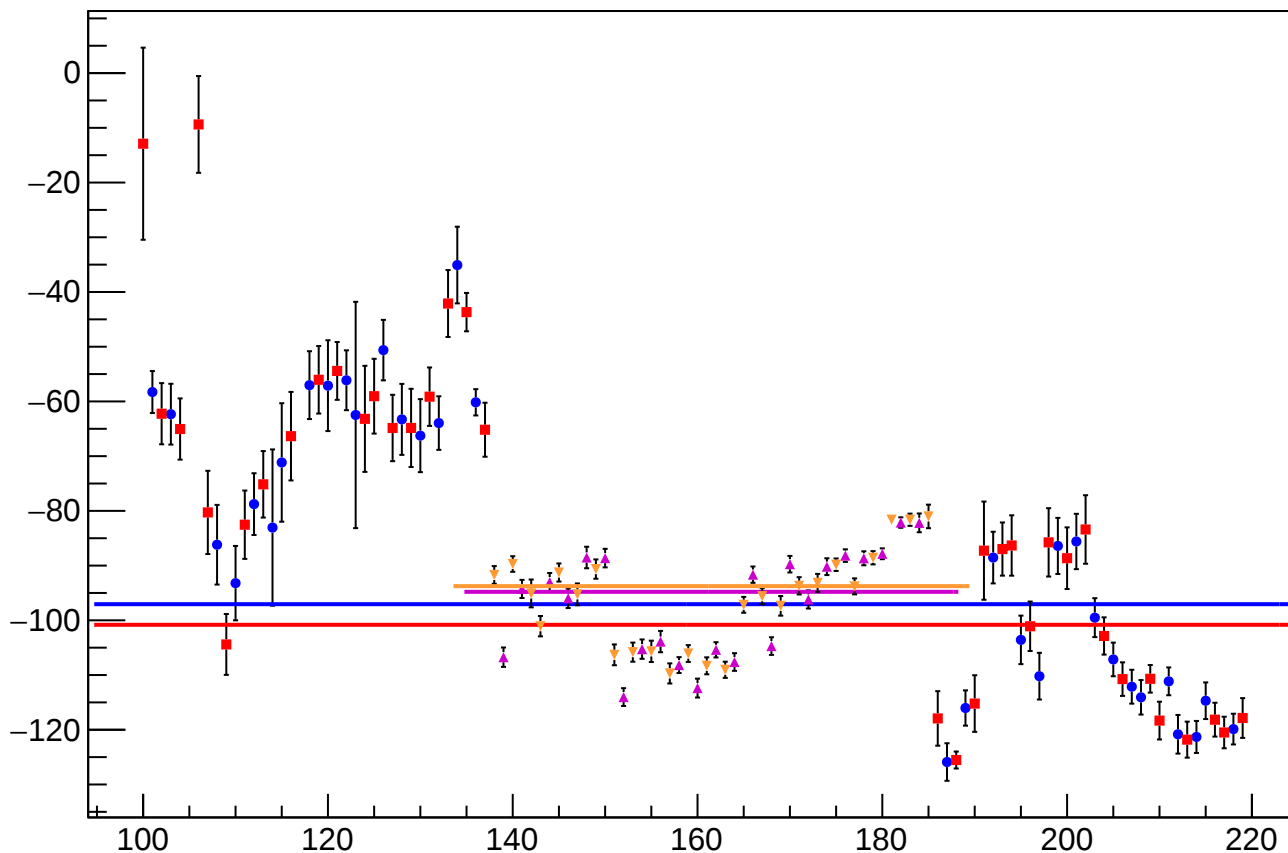
Right: -66.090 ± 0.458 $\chi^2/\text{NDF}: 9130.8/69$

In: -38.289 ± 0.234 $\chi^2/\text{NDF}: 7930.8/55$

Out: -38.196 ± 0.227 $\chi^2/\text{NDF}: 7584.5/61$

All: -38.241 ± 0.163 $\chi^2/\text{NDF}: 15515.3/117$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -97.054 ± 0.717 $\chi^2/\text{NDF}: 1196.0/32$

Left Out: -93.754 ± 0.302 $\chi^2/\text{NDF}: 883.1/24$

Right Out: -100.823 ± 0.696 $\chi^2/\text{NDF}: 1488.0/36$

Left In: -94.796 ± 0.308 $\chi^2/\text{NDF}: 974.7/22$

Left: -94.264 ± 0.216 $\chi^2/\text{NDF}: 1863.6/47$

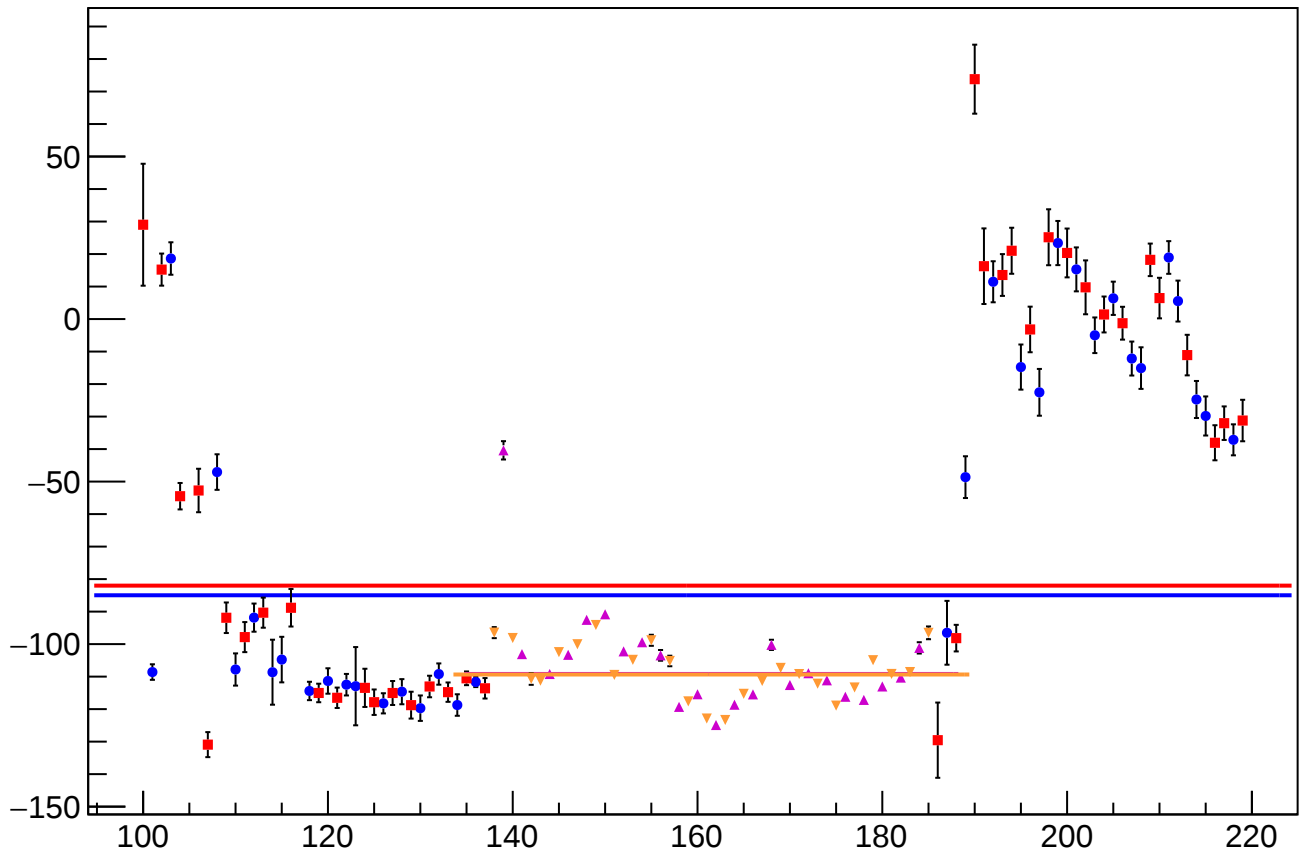
Right: -98.994 ± 0.500 $\chi^2/\text{NDF}: 2698.2/69$

In: -95.148 ± 0.283 $\chi^2/\text{NDF}: 2179.1/55$

Out: -94.871 ± 0.277 $\chi^2/\text{NDF}: 2457.8/61$

All: -95.007 ± 0.198 $\chi^2/\text{NDF}: 4637.4/117$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -84.975 ± 0.719 $\chi^2/\text{NDF}: 4240.6/32$

Left Out: -109.351 ± 0.271 $\chi^2/\text{NDF}: 826.8/24$

Right Out: -82.009 ± 0.746 $\chi^2/\text{NDF}: 4469.9/36$

Left In: -109.184 ± 0.280 $\chi^2/\text{NDF}: 1501.1/22$

Left: -109.270 ± 0.195 $\chi^2/\text{NDF}: 2328.1/47$

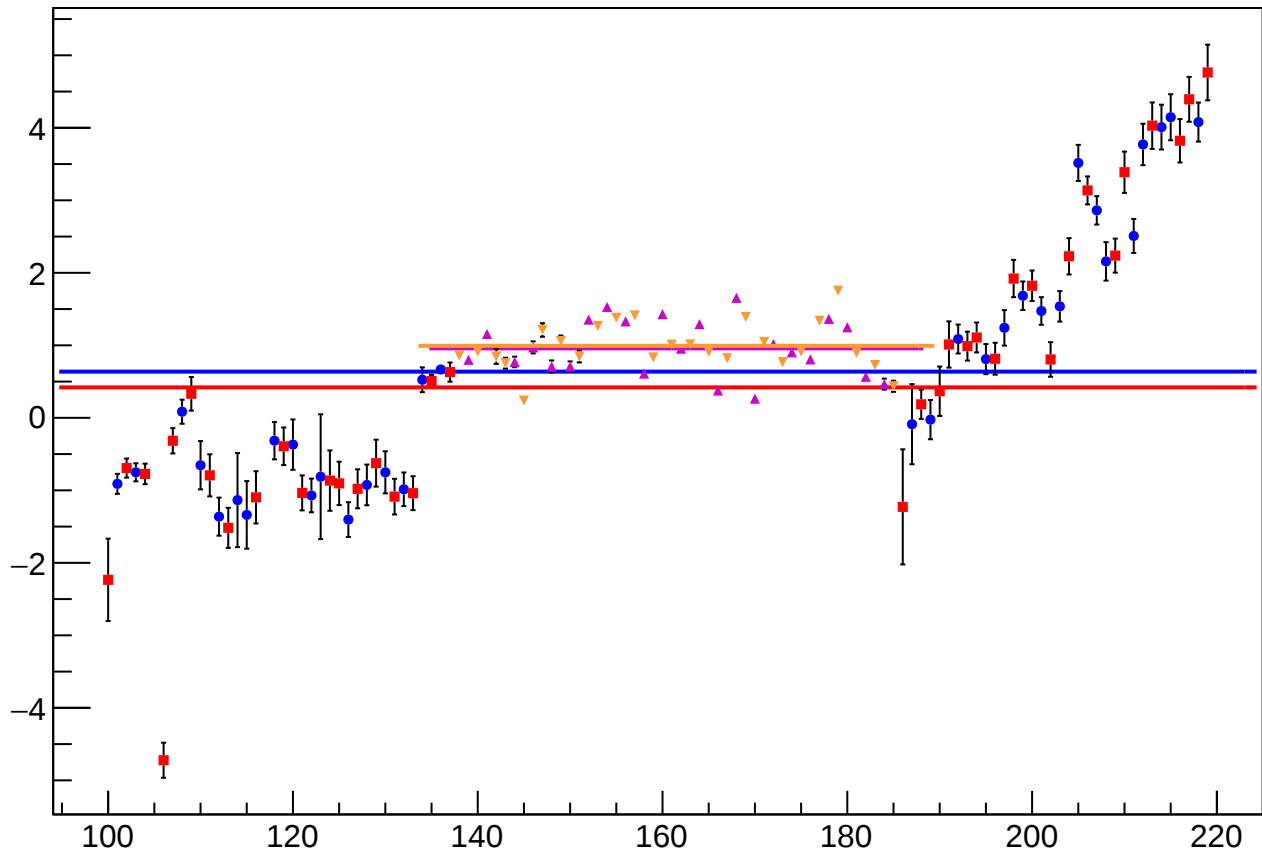
Right: -83.547 ± 0.518 $\chi^2/\text{NDF}: 8718.8/69$

In: -105.995 ± 0.261 $\chi^2/\text{NDF}: 6727.3/55$

Out: -106.158 ± 0.255 $\chi^2/\text{NDF}: 6483.6/61$

All: -106.078 ± 0.182 $\chi^2/\text{NDF}: 13211.0/117$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.637 ± 0.035 χ^2/NDF : 1584.7/32

Left Out: 0.993 ± 0.012 χ^2/NDF : 638.6/24

Right Out: 0.420 ± 0.035 χ^2/NDF : 1991.0/36

Left In: 0.958 ± 0.013 χ^2/NDF : 894.5/22

Left: 0.976 ± 0.009 χ^2/NDF : 1537.0/47

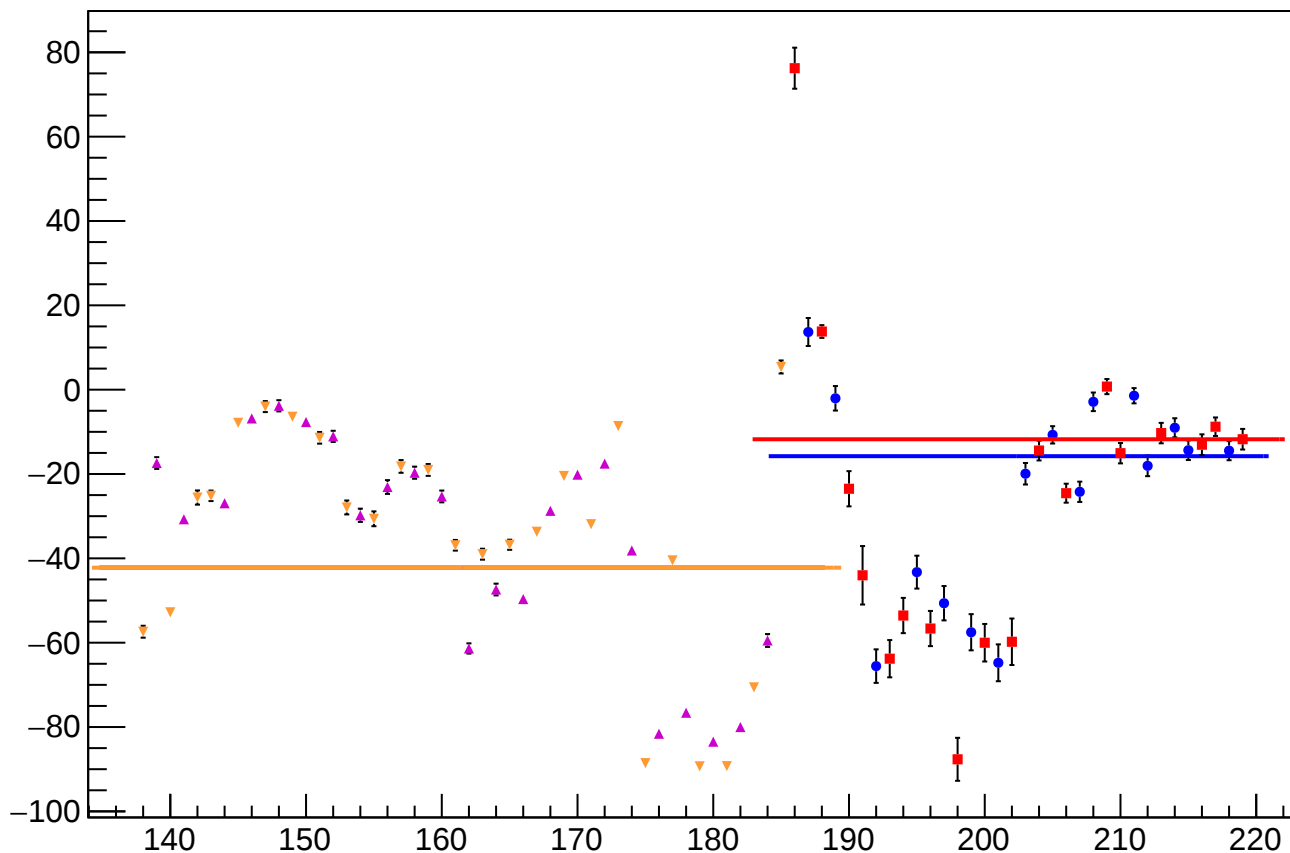
Right: 0.531 ± 0.025 χ^2/NDF : 3595.0/69

In: 0.920 ± 0.012 χ^2/NDF : 2555.1/55

Out: 0.930 ± 0.012 χ^2/NDF : 2862.5/61

All: 0.925 ± 0.008 χ^2/NDF : 5418.0/117

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.773 ± 0.657 χ^2/NDF : 729.5/15

Left Out: -42.213 ± 0.222 χ^2/NDF : 18309.1/24

Right Out: -11.759 ± 0.643 χ^2/NDF : 1499.4/17

Left In: -42.176 ± 0.227 χ^2/NDF : 14575.9/22

Left: -42.195 ± 0.159 χ^2/NDF : 32885.0/47

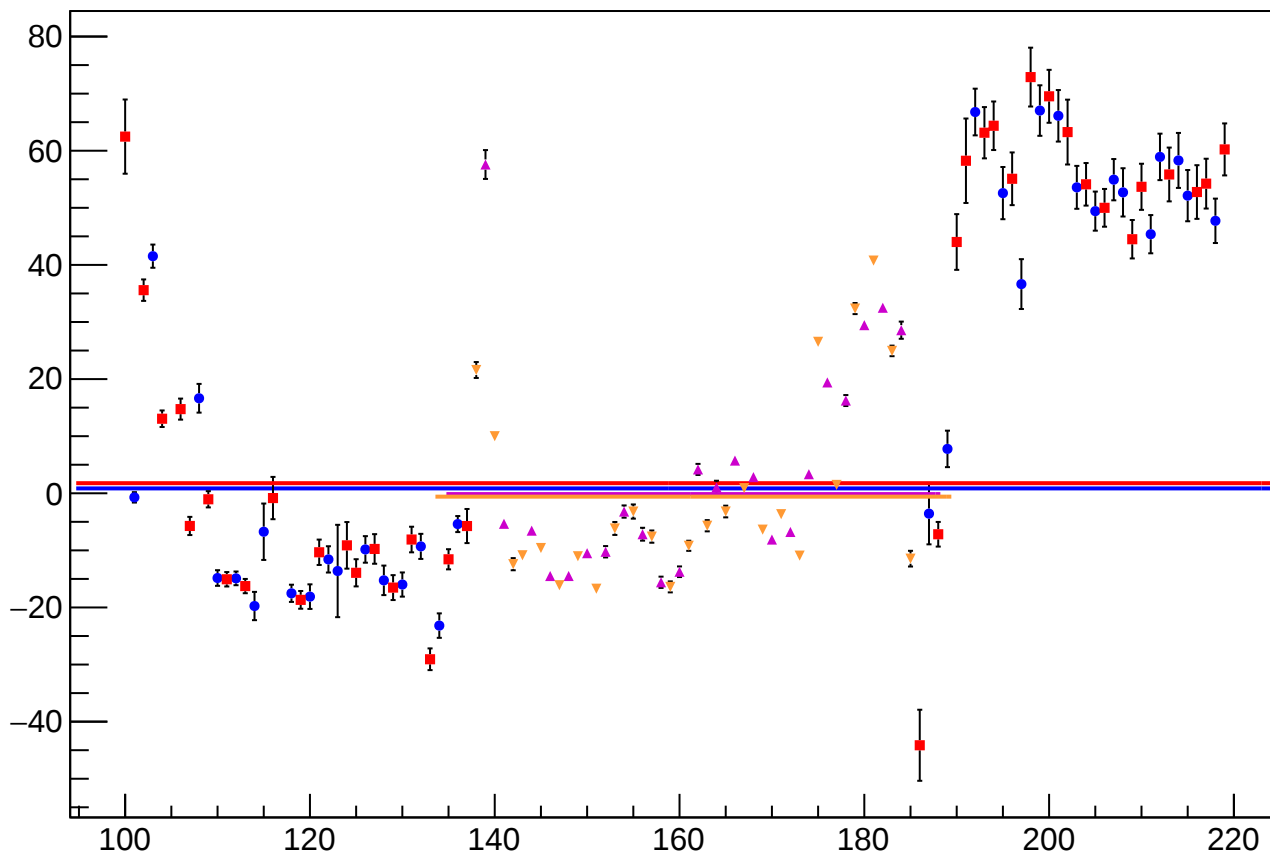
Right: -13.725 ± 0.459 χ^2/NDF : 2248.0/33

In: -39.355 ± 0.215 χ^2/NDF : 16750.0/38

Out: -38.970 ± 0.210 χ^2/NDF : 21812.3/42

All: -39.158 ± 0.150 χ^2/NDF : 38563.9/81

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.851 ± 0.396 $\chi^2/\text{NDF}: 3831.4/32$

Left Out: -0.590 ± 0.174 $\chi^2/\text{NDF}: 8750.9/24$

Right Out: 1.768 ± 0.392 $\chi^2/\text{NDF}: 4180.4/36$

Left In: -0.142 ± 0.179 $\chi^2/\text{NDF}: 6862.5/22$

Left: -0.372 ± 0.125 $\chi^2/\text{NDF}: 15616.6/47$

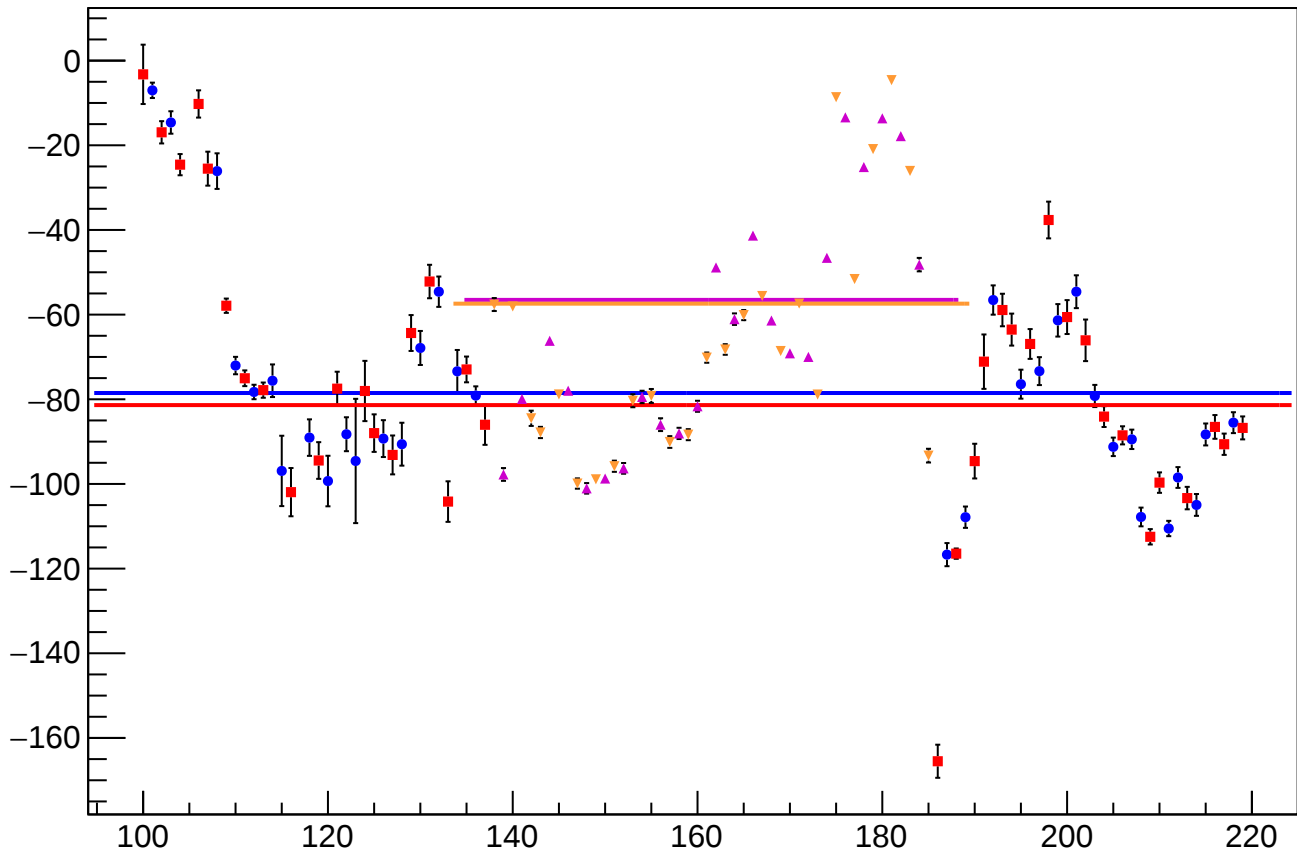
Right: 1.314 ± 0.279 $\chi^2/\text{NDF}: 8014.5/69$

In: 0.027 ± 0.163 $\chi^2/\text{NDF}: 10699.1/55$

Out: -0.201 ± 0.159 $\chi^2/\text{NDF}: 12961.5/61$

All: -0.090 ± 0.114 $\chi^2/\text{NDF}: 23661.6/117$

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -78.518 ± 0.490 χ^2/NDF : 3562.5/32

Left Out: -57.413 ± 0.223 χ^2/NDF : 18604.1/24

Right Out: -81.374 ± 0.465 χ^2/NDF : 4231.9/36

Left In: -56.519 ± 0.227 χ^2/NDF : 16352.6/22

Left: -56.974 ± 0.159 χ^2/NDF : 34964.5/47

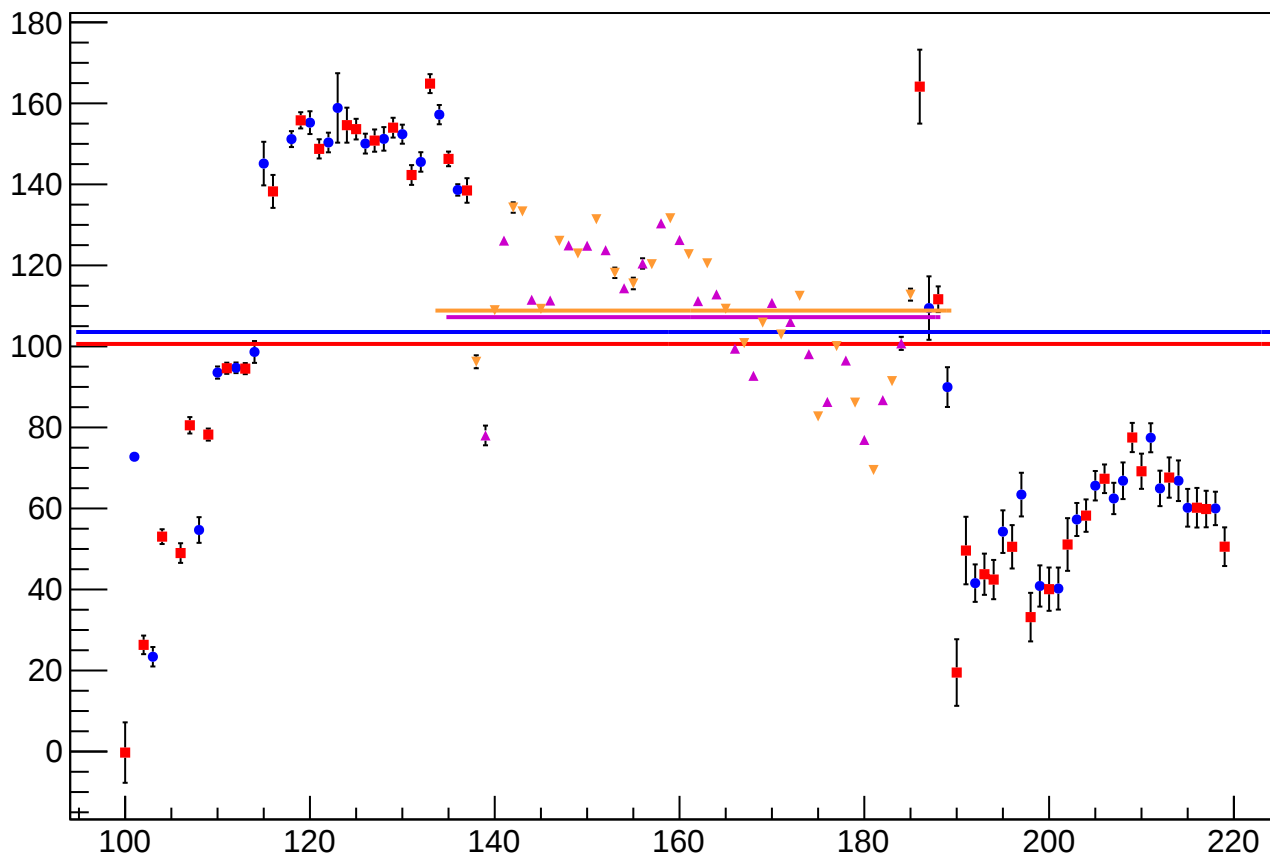
Right: -80.022 ± 0.337 χ^2/NDF : 7812.3/69

In: -60.407 ± 0.206 χ^2/NDF : 21574.2/55

Out: -61.906 ± 0.201 χ^2/NDF : 24996.7/61

All: -61.174 ± 0.144 χ^2/NDF : 46598.0/117

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 103.560 $\pm$ 0.450 χ^2 /NDF: 7534.7/32

Left Out: 108.846 $\pm$ 0.197 χ^2 /NDF: 7400.2/24

Right Out: 100.611 $\pm$ 0.448 χ^2 /NDF: 8688.2/36

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

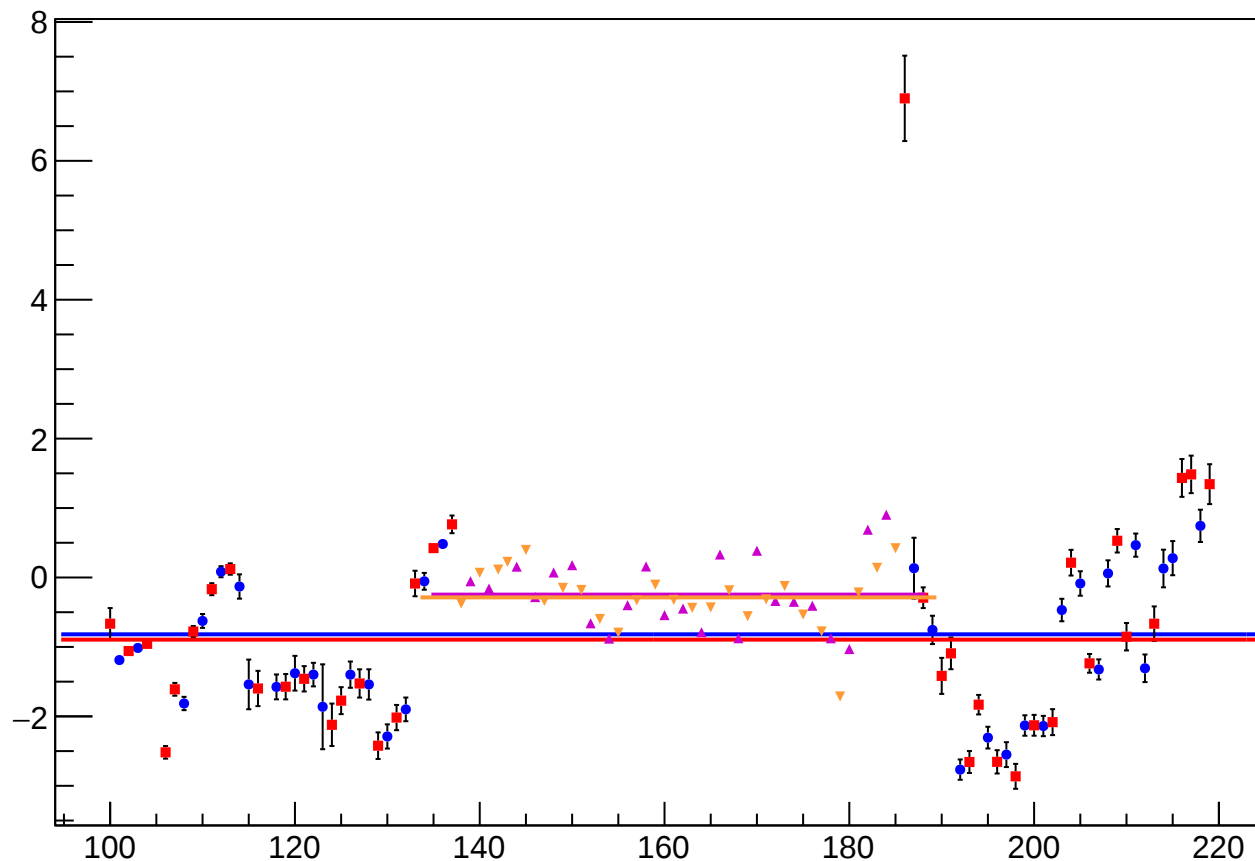
Right: 102.079 $\pm$ 0.317 χ^2 /NDF: 16244.4/69

In: 106.608 $\pm$ 0.185 χ^2 /NDF: 13155.2/55

Out: 107.508 $\pm$ 0.181 χ^2 /NDF: 16371.6/61

All: 107.068 $\pm$ 0.129 χ^2 /NDF: 29538.9/117

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.819 ± 0.022 χ^2/NDF : 1738.3/32

Left Out: -0.287 ± 0.009 χ^2/NDF : 2052.9/24

Right Out: -0.895 ± 0.021 χ^2/NDF : 2327.4/36

Left In: -0.247 ± 0.009 χ^2/NDF : 2792.8/22

Left: -0.267 ± 0.006 χ^2/NDF : 4855.3/47

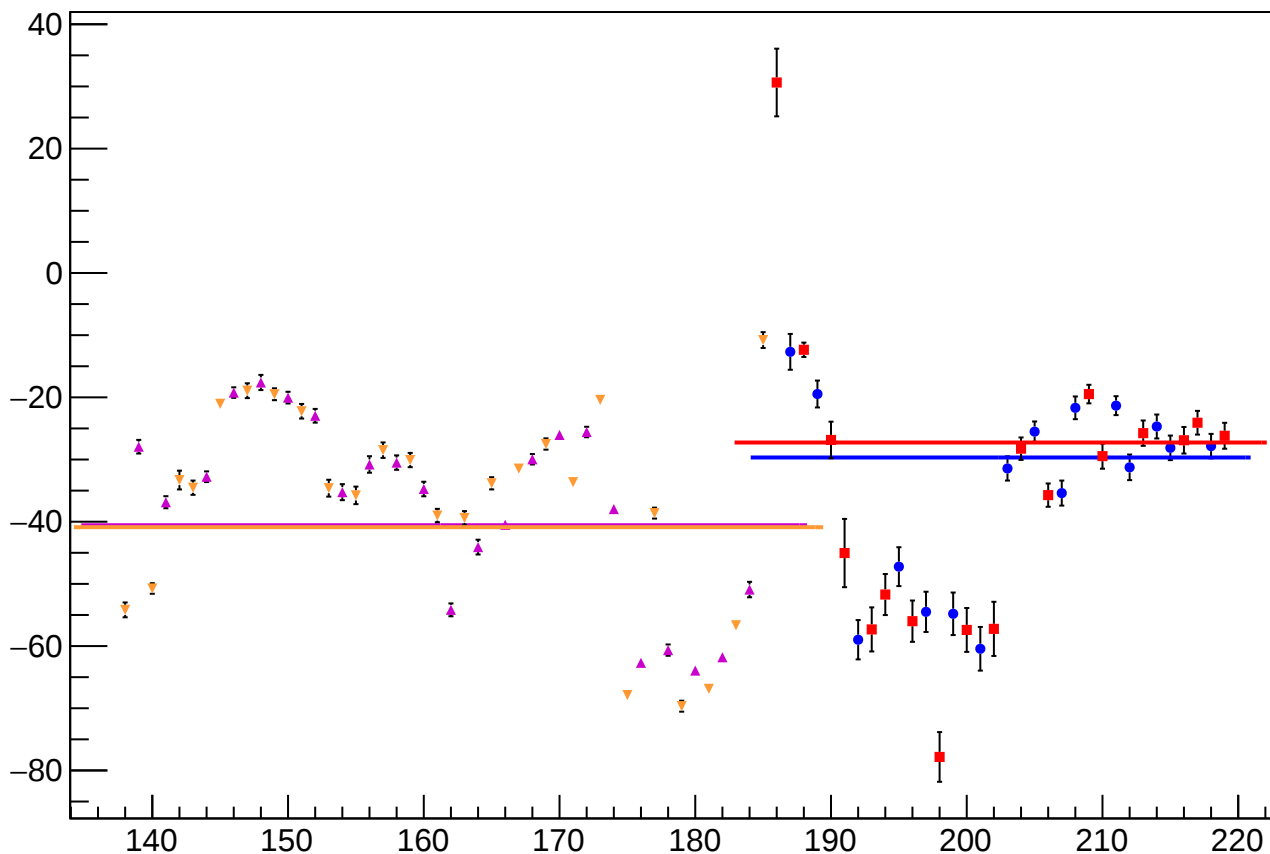
Right: -0.859 ± 0.015 χ^2/NDF : 4071.9/69

In: -0.330 ± 0.009 χ^2/NDF : 5088.0/55

Out: -0.380 ± 0.008 χ^2/NDF : 5067.4/61

All: -0.356 ± 0.006 χ^2/NDF : 10172.8/117

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -29.672 ± 0.540 $\chi^2/\text{NDF}: 437.4/15$

Left Out: -40.880 ± 0.186 $\chi^2/\text{NDF}: 9123.2/24$

Right Out: -27.263 ± 0.524 $\chi^2/\text{NDF}: 825.2/17$

Left In: -40.567 ± 0.190 $\chi^2/\text{NDF}: 6954.7/22$

Left: -40.726 ± 0.133 $\chi^2/\text{NDF}: 16079.4/47$

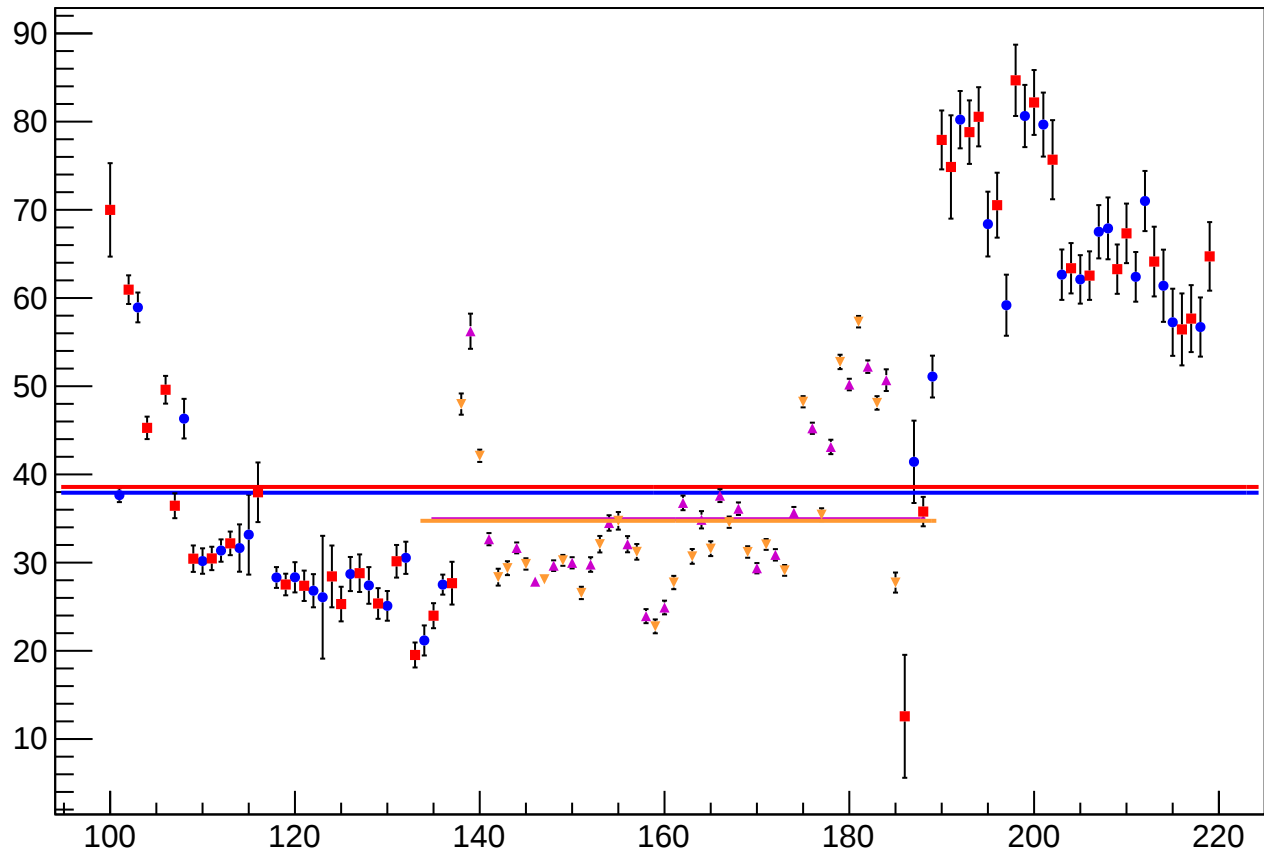
Right: -28.433 ± 0.376 $\chi^2/\text{NDF}: 1272.8/33$

In: -39.366 ± 0.179 $\chi^2/\text{NDF}: 7754.9/38$

Out: -39.355 ± 0.175 $\chi^2/\text{NDF}: 10547.6/42$

All: -39.361 ± 0.125 $\chi^2/\text{NDF}: 18302.5/81$

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 37.924+/-0.341 χ^2 /NDF: 1837.0/32

Left Out: 34.741+/-0.147 χ^2 /NDF:3693.2/24

Right Out: 38.580+/-0.341 χ^2 /NDF: 2301.2/36

Left In: 34.922+/-0.152 χ^2 /NDF:2672.9/22

Left: 34.829+/-0.106 χ^2 /NDF: 6366.8/47

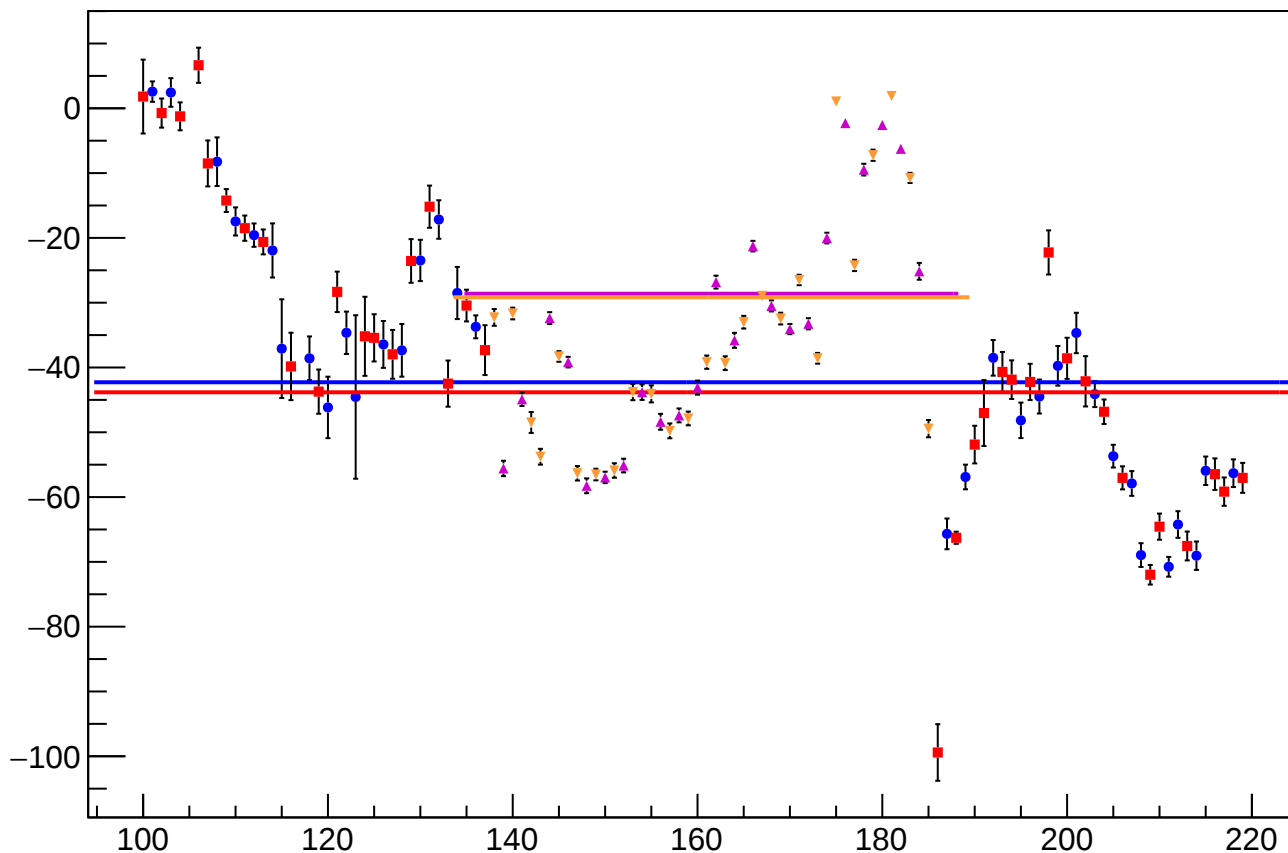
Right: 38.253+/-0.241 χ^2 /NDF: 4140.0/69

In: 35.417+/-0.139 χ^2 /NDF:4574.5/55

Out: 35.346+/-0.135 χ^2 /NDF:6101.2/61

All: 35.380+/-0.097 χ^2 /NDF: 10675.9/117

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -42.279 ± 0.417 $\chi^2/\text{NDF}: 2957.1/32$

Left Out: -29.163 ± 0.187 $\chi^2/\text{NDF}: 10126.0/24$

Right Out: -43.827 ± 0.395 $\chi^2/\text{NDF}: 3568.6/36$

Left In: -28.616 ± 0.190 $\chi^2/\text{NDF}: 9040.9/22$

Left: -28.894 ± 0.133 $\chi^2/\text{NDF}: 19171.1/47$

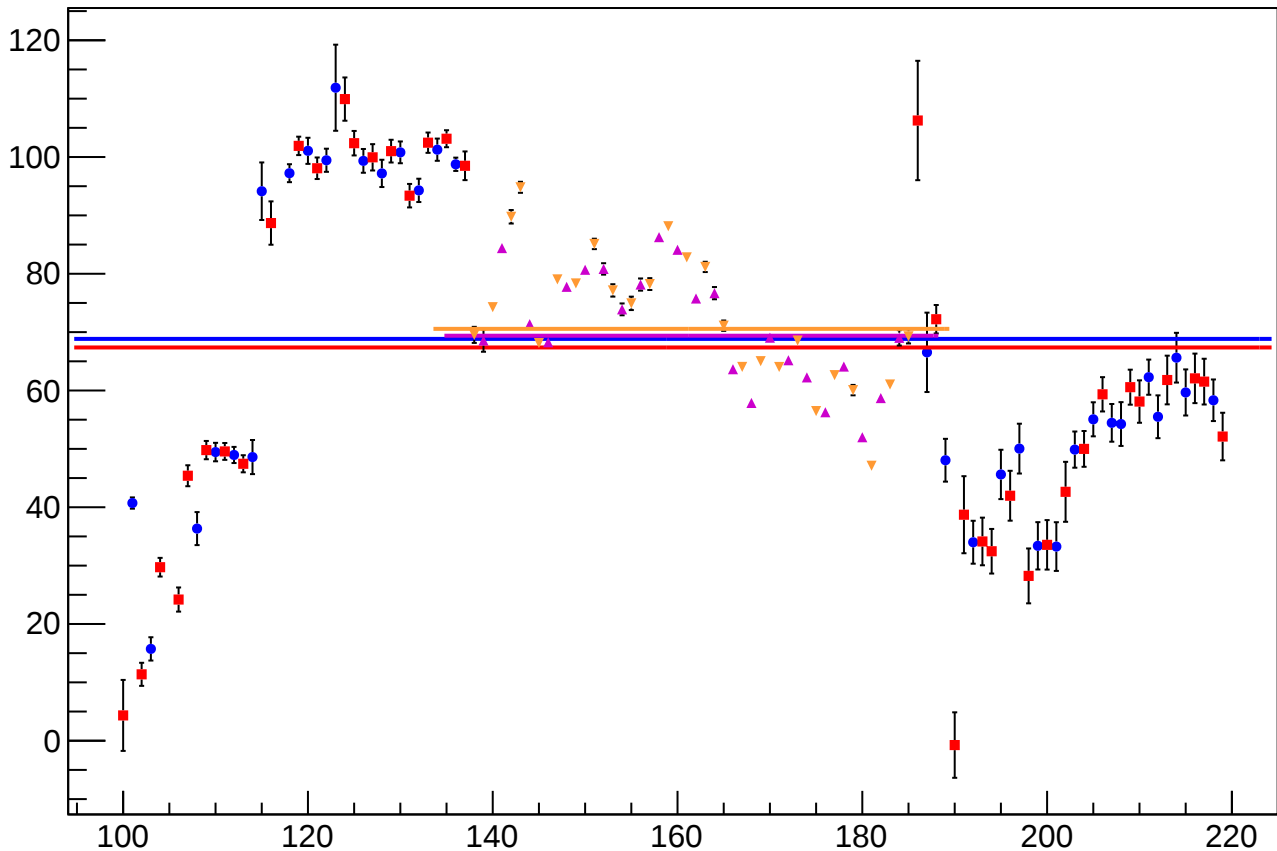
Right: -43.094 ± 0.287 $\chi^2/\text{NDF}: 6533.0/69$

In: -30.965 ± 0.173 $\chi^2/\text{NDF}: 12888.6/55$

Out: -31.847 ± 0.169 $\chi^2/\text{NDF}: 14819.9/61$

All: -31.415 ± 0.121 $\chi^2/\text{NDF}: 27721.9/117$

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 68.843 $\pm$ 0.389 χ^2 /NDF: 5194.2/32

Left Out: 70.563 $\pm$ 0.166 χ^2 /NDF: 4589.1/24

Right Out: 67.373 $\pm$ 0.392 χ^2 /NDF: 6153.4/36

Left In: 69.387 $\pm$ 0.170 χ^2 /NDF: 3321.8/22

Left: 69.989 $\pm$ 0.119 χ^2 /NDF: 7935.4/47

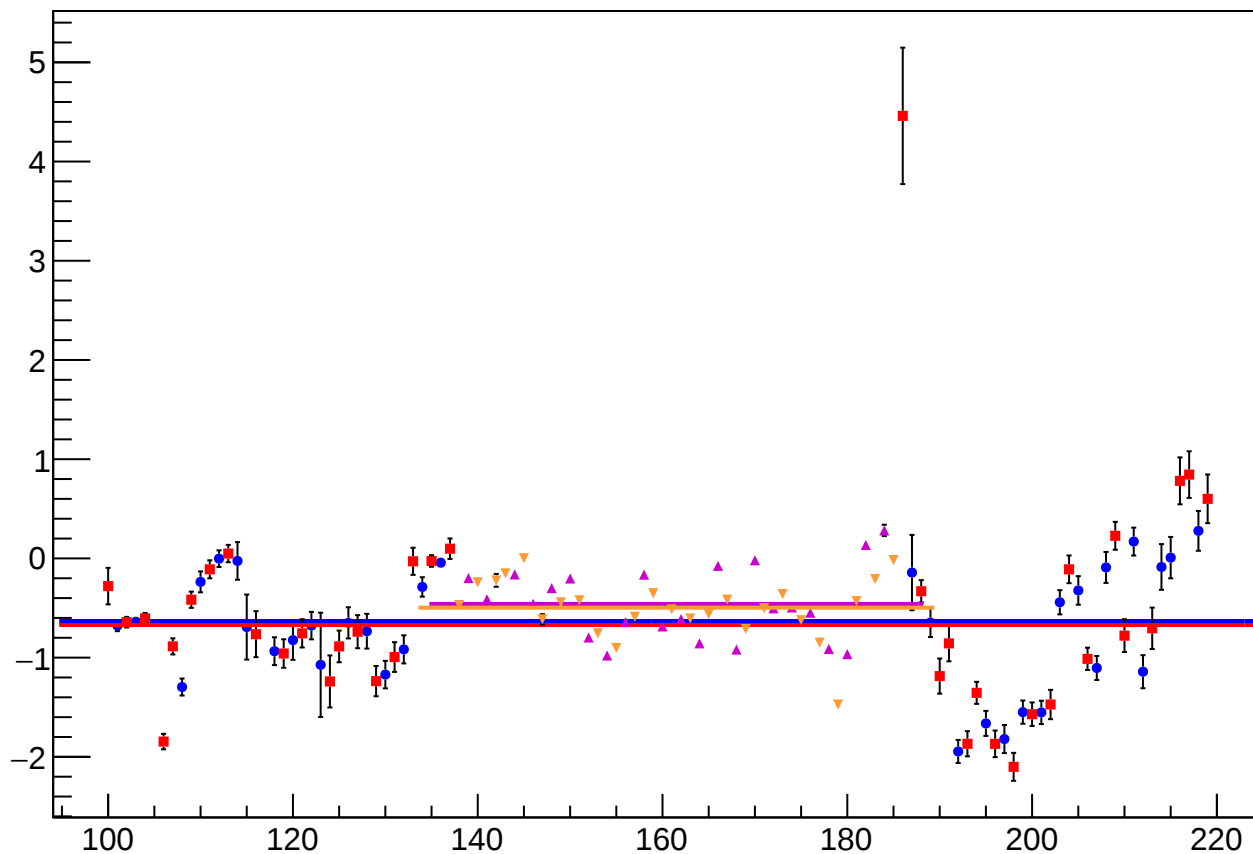
Right: 68.113 $\pm$ 0.276 χ^2 /NDF: 11354.7/69

In: 69.300 $\pm$ 0.156 χ^2 /NDF: 8517.7/55

Out: 70.076 $\pm$ 0.153 χ^2 /NDF: 10798.7/61

All: 69.695 $\pm$ 0.109 χ^2 /NDF: 19329.0/117

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



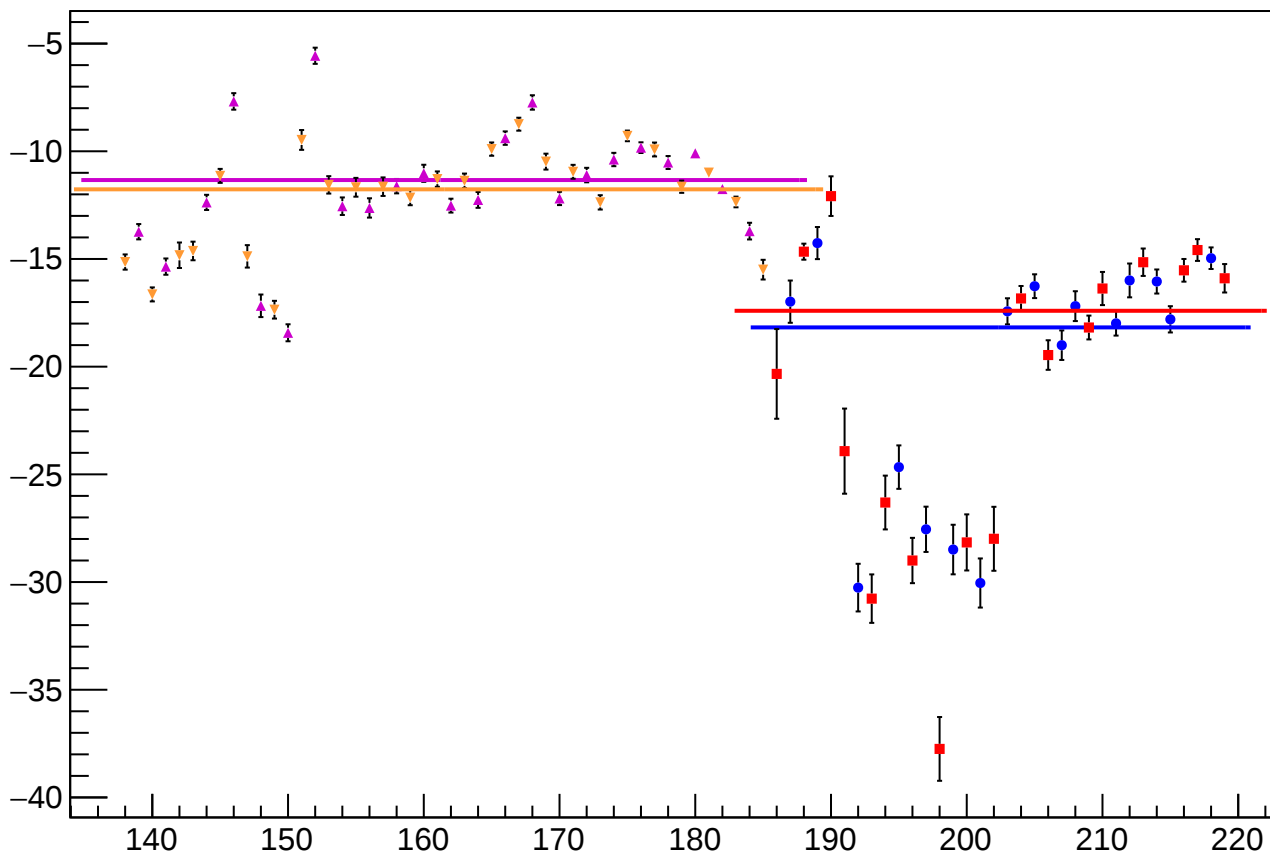
Right In: -0.631 ± 0.019 χ^2/NDF : 838.7/32
 Left Out: -0.497 ± 0.008 χ^2/NDF : 1449.3/24
 Right Out: -0.671 ± 0.018 χ^2/NDF : 1230.0/36
 Left In: -0.459 ± 0.008 χ^2/NDF : 1958.4/22

Left: -0.478 ± 0.005 χ^2/NDF : 3419.9/47
 Right: -0.652 ± 0.013 χ^2/NDF : 2071.0/69

In: -0.483 ± 0.007 χ^2/NDF : 2867.5/55
 Out: -0.522 ± 0.007 χ^2/NDF : 2756.5/61

All: -0.503 ± 0.005 χ^2/NDF : 5639.1/117

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -18.177 ± 0.177 χ^2/NDF : 538.7/15

Left Out: -11.767 ± 0.067 χ^2/NDF : 1020.8/24

Right Out: -17.406 ± 0.169 χ^2/NDF : 797.3/17

Left In: -11.336 ± 0.068 χ^2/NDF : 1269.3/22

Left: -11.556 ± 0.048 χ^2/NDF : 2310.6/47

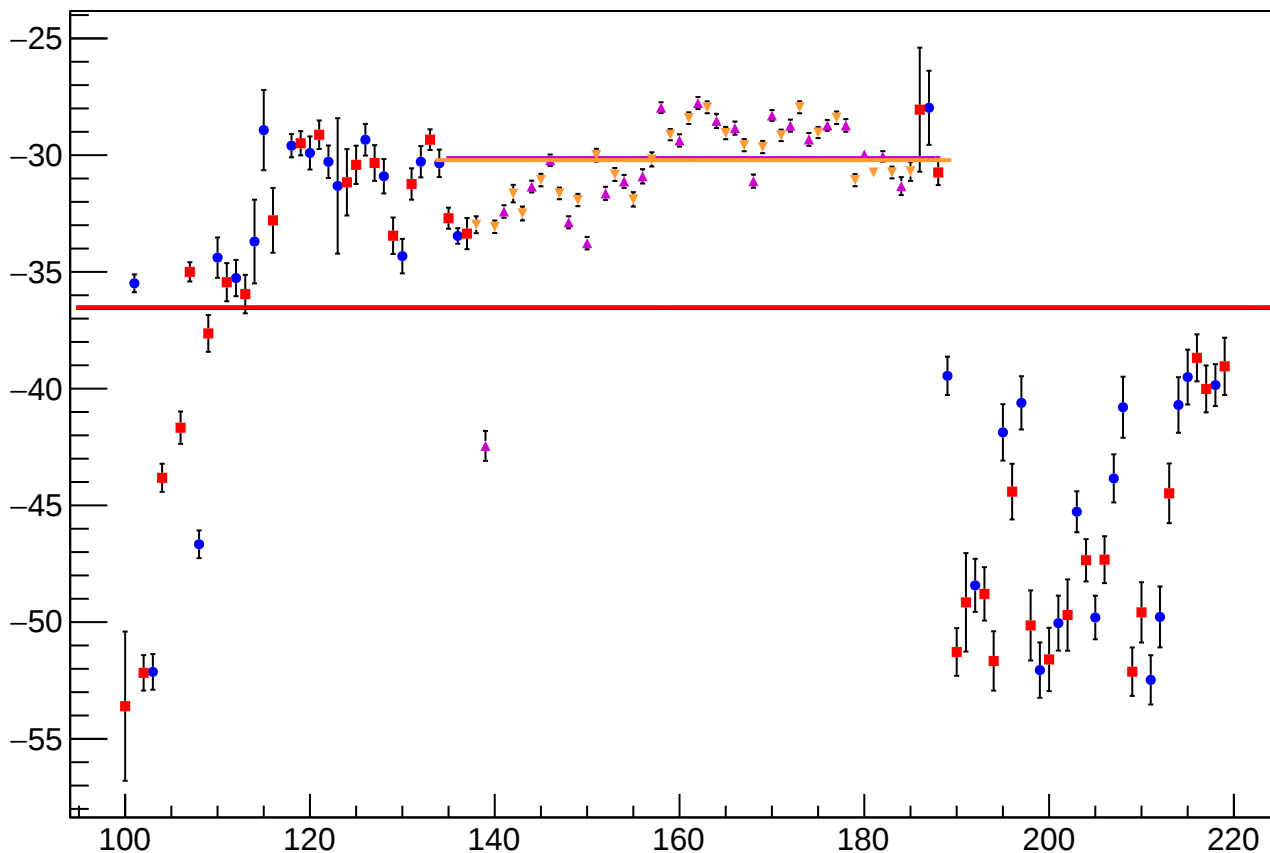
Right: -17.773 ± 0.122 χ^2/NDF : 1345.9/33

In: -12.215 ± 0.064 χ^2/NDF : 3107.5/38

Out: -12.527 ± 0.062 χ^2/NDF : 2782.8/42

All: -12.375 ± 0.044 χ^2/NDF : 5902.7/81

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -36.542 ± 0.132 $\chi^2/\text{NDF}: 2788.9/32$

Left Out: -30.212 ± 0.054 $\chi^2/\text{NDF}: 734.0/24$

Right Out: -36.511 ± 0.130 $\chi^2/\text{NDF}: 3178.7/36$

Left In: -30.124 ± 0.056 $\chi^2/\text{NDF}: 1226.2/22$

Left: -30.169 ± 0.039 $\chi^2/\text{NDF}: 1961.5/47$

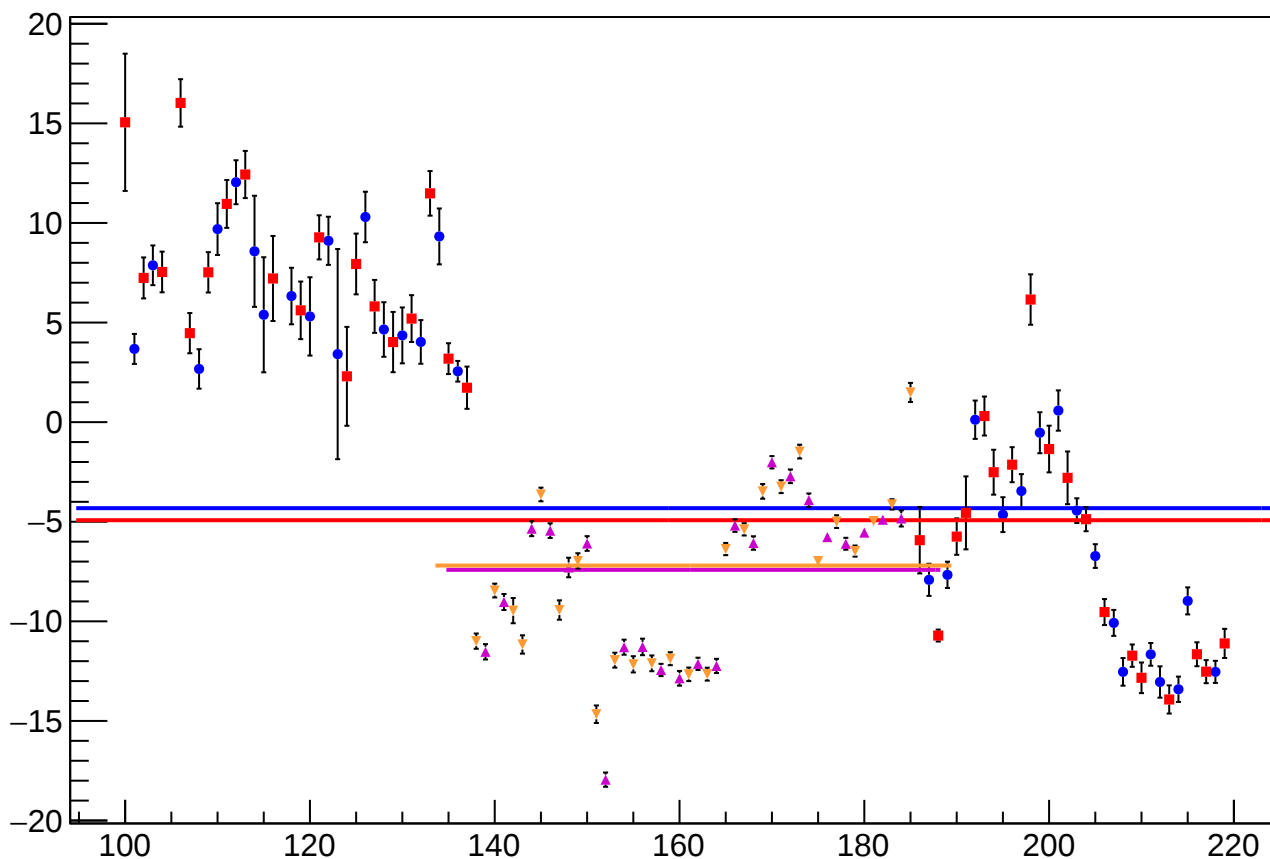
Right: -36.526 ± 0.093 $\chi^2/\text{NDF}: 5967.6/69$

In: -31.082 ± 0.051 $\chi^2/\text{NDF}: 6011.7/55$

Out: -31.134 ± 0.050 $\chi^2/\text{NDF}: 5914.7/61$

All: -31.109 ± 0.036 $\chi^2/\text{NDF}: 11927.0/117$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.319 ± 0.148 χ^2/NDF : 2528.4/32

Left Out: -7.199 ± 0.067 χ^2/NDF : 3037.3/24

Right Out: -4.923 ± 0.140 χ^2/NDF : 3465.2/36

Left In: -7.415 ± 0.068 χ^2/NDF : 3123.3/22

Left: -7.305 ± 0.048 χ^2/NDF : 6165.7/47

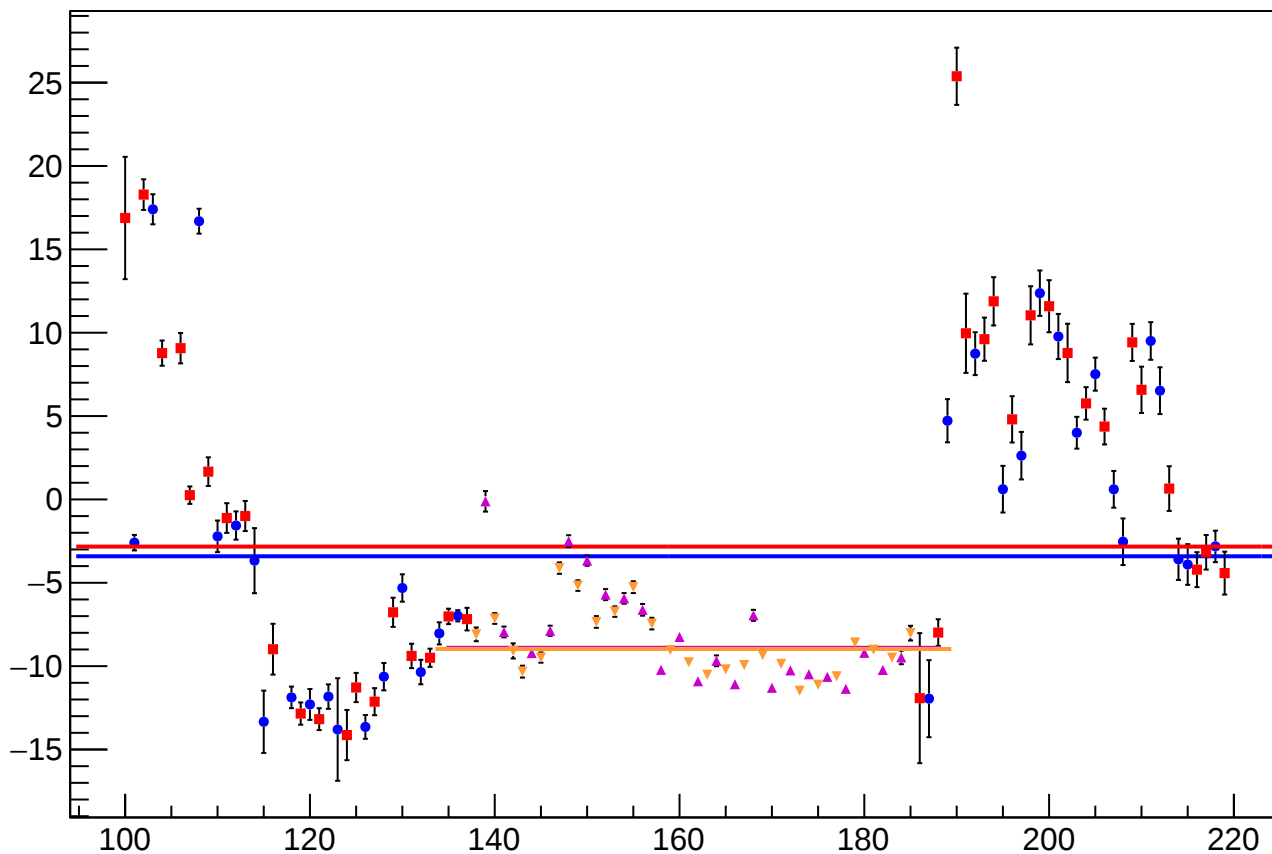
Right: -4.637 ± 0.102 χ^2/NDF : 6002.3/69

In: -6.877 ± 0.062 χ^2/NDF : 6013.1/55

Out: -6.777 ± 0.060 χ^2/NDF : 6716.9/61

All: -6.826 ± 0.043 χ^2/NDF : 12731.3/117

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.410 ± 0.149 χ^2/NDF : 3013.9/32

Left Out: -8.970 ± 0.060 χ^2/NDF : 878.8/24

Right Out: -2.829 ± 0.150 χ^2/NDF : 3240.7/36

Left In: -8.900 ± 0.062 χ^2/NDF : 1533.9/22

Left: -8.936 ± 0.043 χ^2/NDF : 2413.4/47

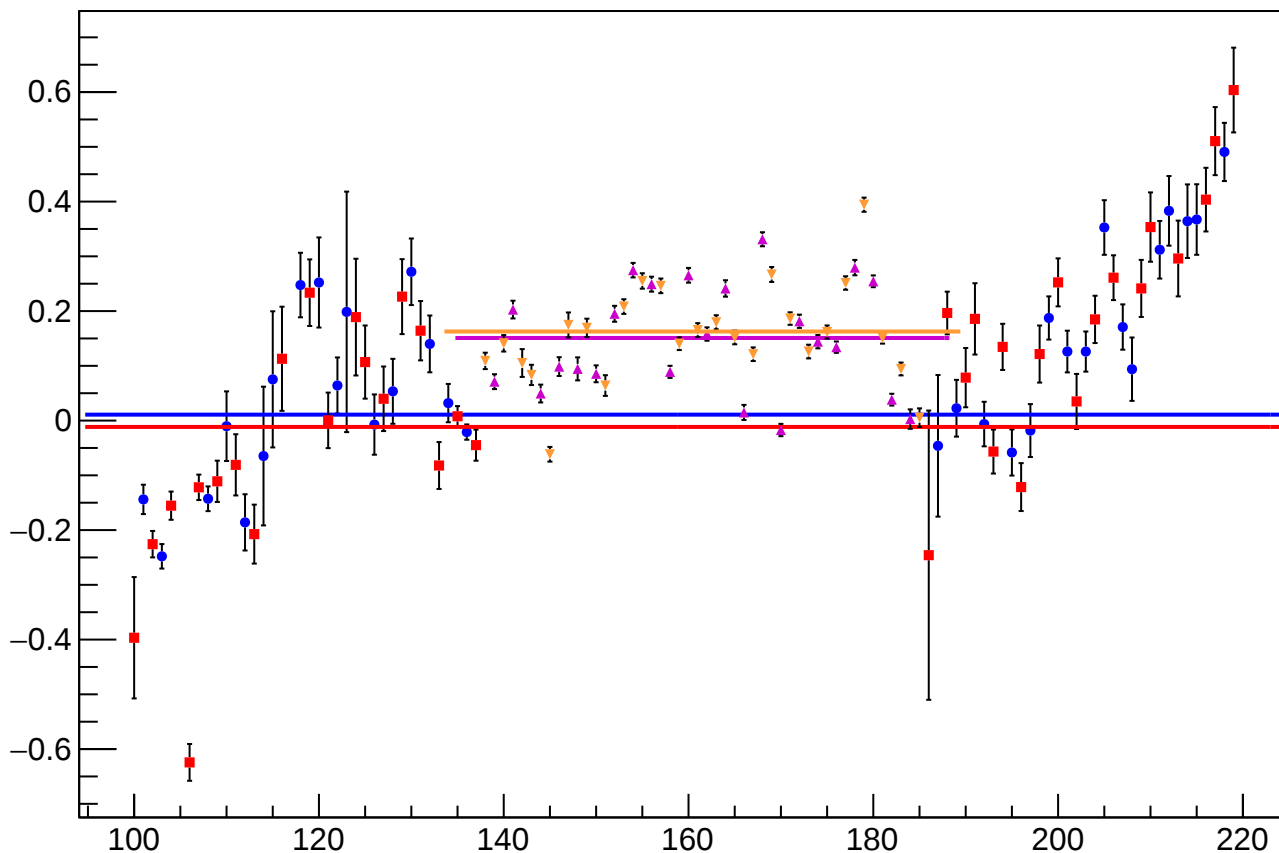
Right: -3.121 ± 0.106 χ^2/NDF : 6262.1/69

In: -8.101 ± 0.057 χ^2/NDF : 5702.8/55

Out: -8.120 ± 0.056 χ^2/NDF : 5561.9/61

All: -8.110 ± 0.040 χ^2/NDF : 11264.8/117

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.007 χ^2 /NDF: 599.6/32

Left Out: 0.163 $\pm$ 0.003 χ^2 /NDF:1018.1/24

Right Out: -0.012 $\pm$ 0.007 χ^2 /NDF: 982.5/36

Left In: 0.151 $\pm$ 0.003 χ^2 /NDF:1286.5/22

Left: 0.157 $\pm$ 0.002 χ^2 /NDF: 2313.9/47

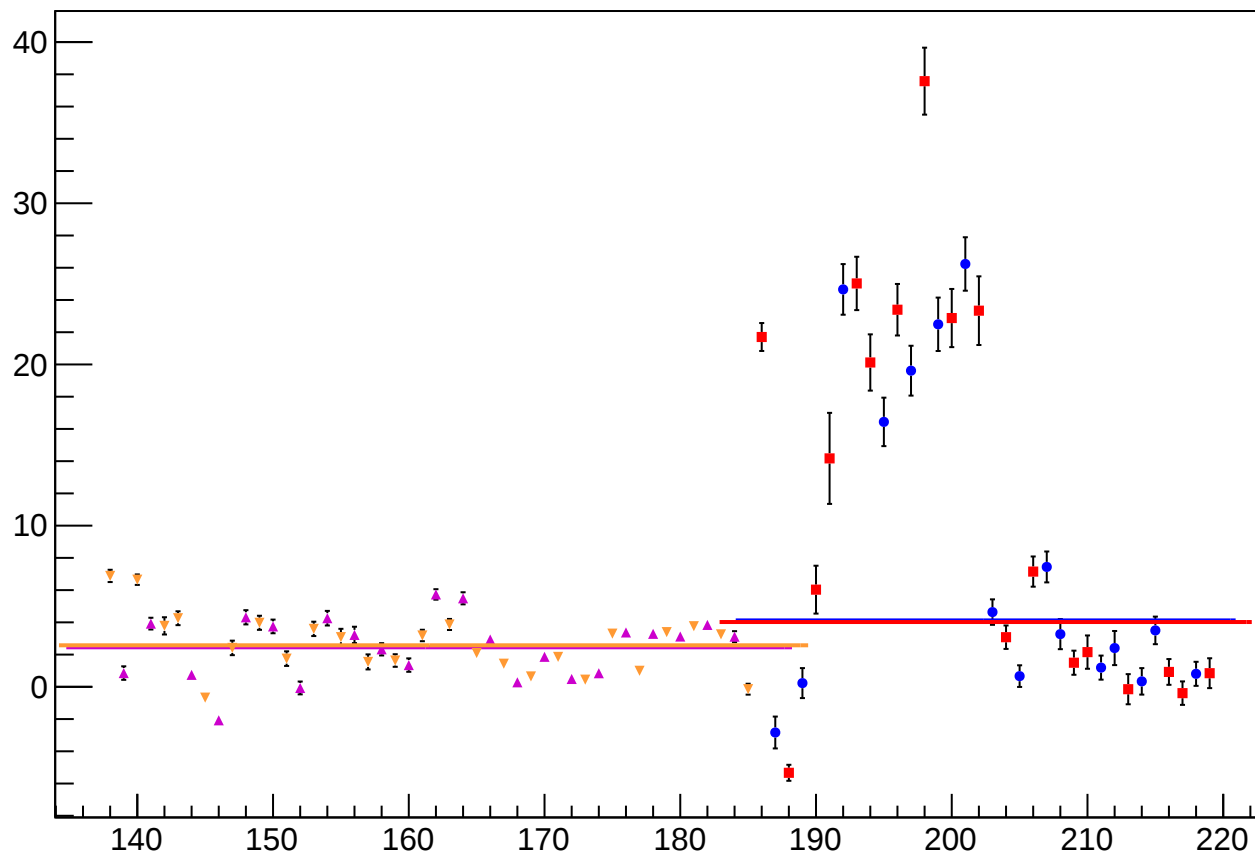
Right: -0.000 $\pm$ 0.005 χ^2 /NDF: 1587.4/69

In: 0.132 $\pm$ 0.003 χ^2 /NDF:2240.4/55

Out: 0.139 $\pm$ 0.003 χ^2 /NDF:2551.1/61

All: 0.135 $\pm$ 0.002 χ^2 /NDF: 4796.0/117

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.120 ± 0.239 $\chi^2/\text{NDF}: 805.5/15$

Left Out: 2.577 ± 0.058 $\chi^2/\text{NDF}: 867.5/24$

Right Out: 4.020 ± 0.227 $\chi^2/\text{NDF}: 1742.7/17$

Left In: 2.452 ± 0.059 $\chi^2/\text{NDF}: 871.3/22$

Left: 2.516 ± 0.042 $\chi^2/\text{NDF}: 1741.0/47$

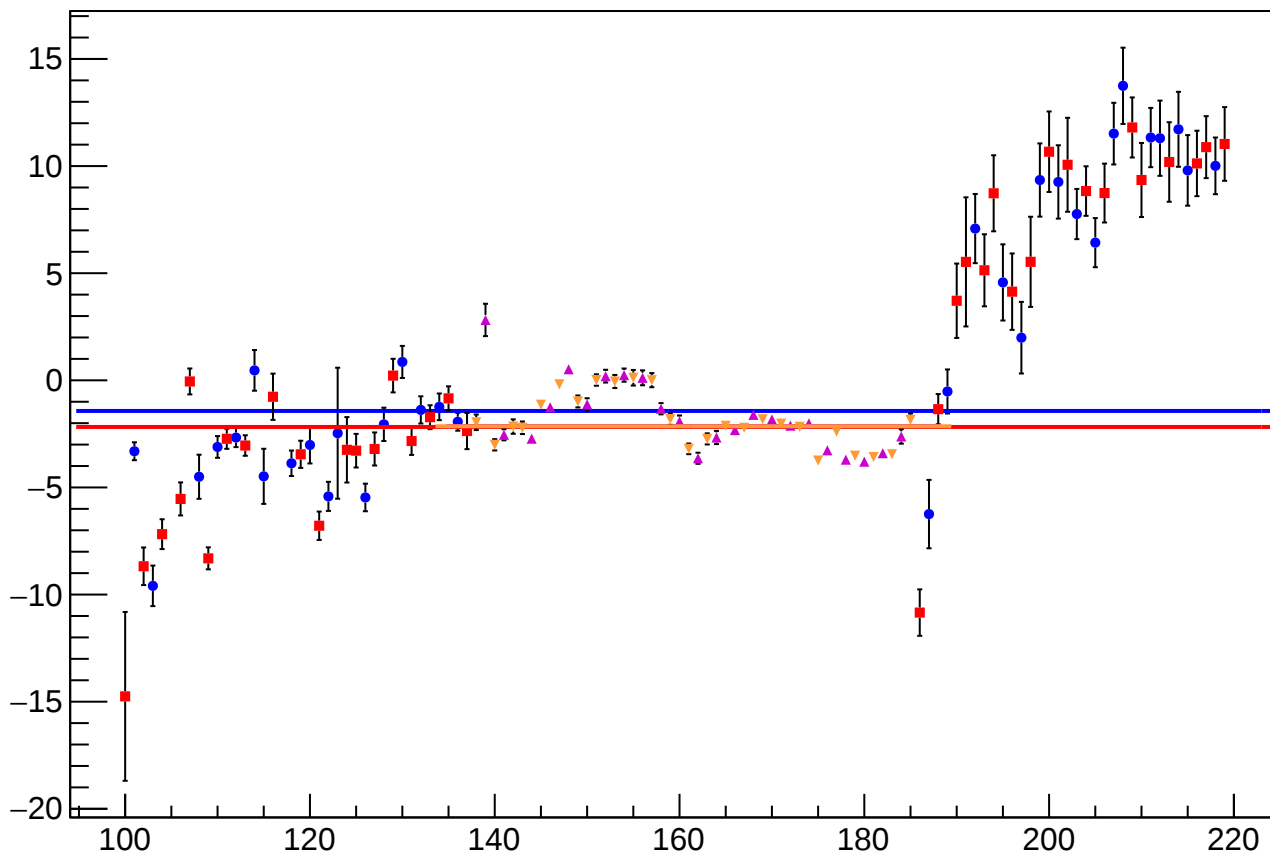
Right: 4.068 ± 0.165 $\chi^2/\text{NDF}: 2548.3/33$

In: 2.549 ± 0.058 $\chi^2/\text{NDF}: 1722.7/38$

Out: 2.666 ± 0.056 $\chi^2/\text{NDF}: 2648.0/42$

All: 2.609 ± 0.040 $\chi^2/\text{NDF}: 4372.8/81$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.429 ± 0.143 χ^2/NDF : 947.2/32

Left Out: -2.146 ± 0.048 χ^2/NDF : 573.4/24

Right Out: -2.177 ± 0.141 χ^2/NDF : 1161.8/36

Left In: -2.136 ± 0.048 χ^2/NDF : 691.2/22

Left: -2.141 ± 0.034 χ^2/NDF : 1264.6/47

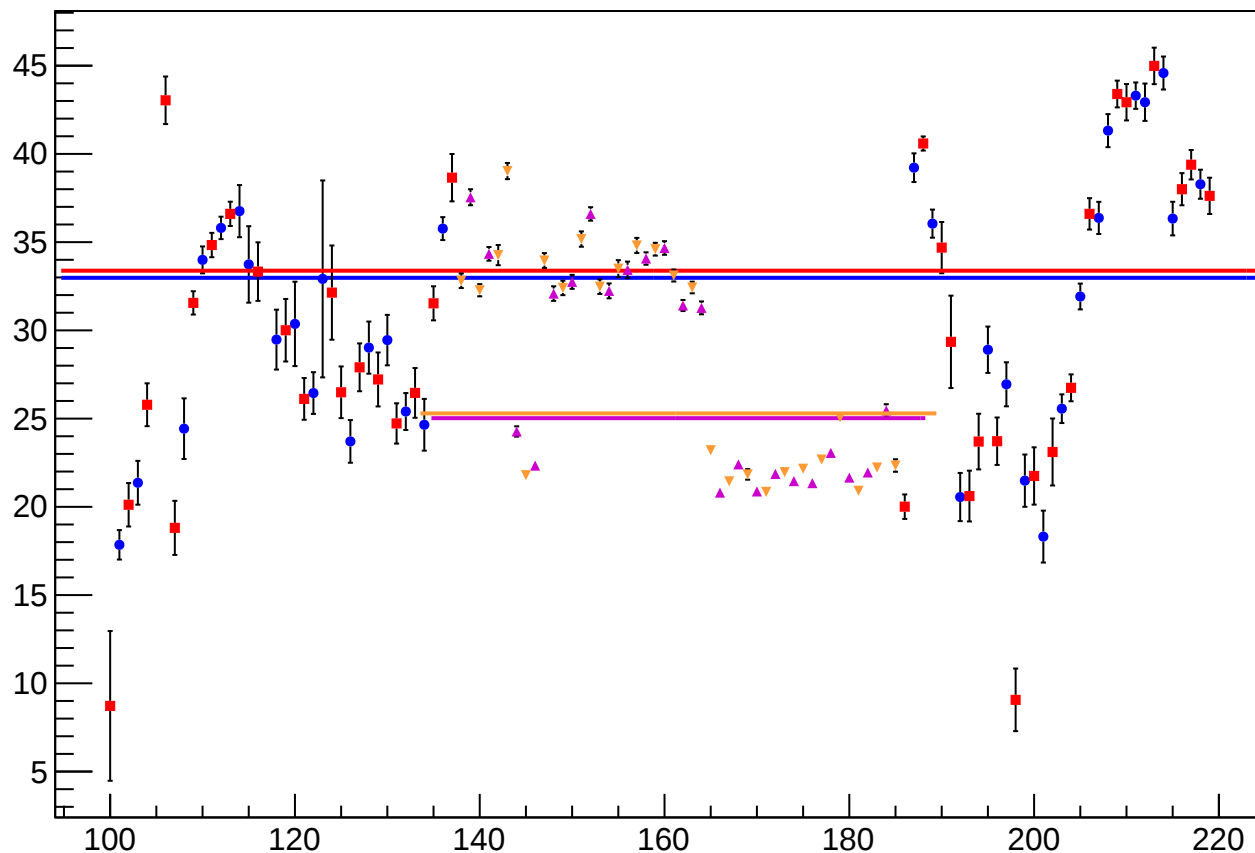
Right: -1.808 ± 0.100 χ^2/NDF : 2122.8/69

In: -2.063 ± 0.046 χ^2/NDF : 1660.4/55

Out: -2.149 ± 0.045 χ^2/NDF : 1735.2/61

All: -2.107 ± 0.032 χ^2/NDF : 3397.3/117

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 32.979 $\pm$ 0.177 χ^2 /NDF: 1694.5/32

Left Out: 25.296 $\pm$ 0.059 χ^2 /NDF: 8272.3/24

Right Out: 33.382 $\pm$ 0.166 χ^2 /NDF: 2268.2/36

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

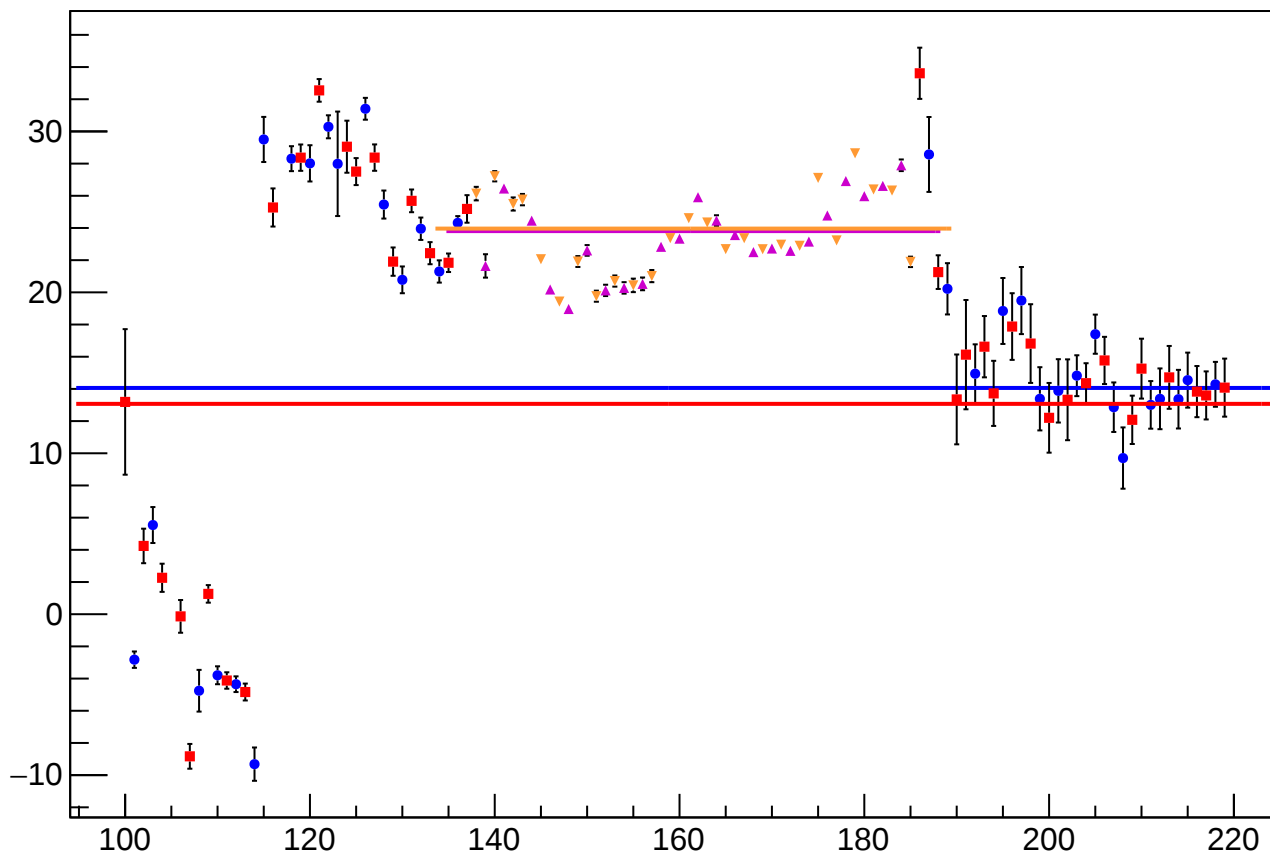
Right: 33.194 $\pm$ 0.121 χ^2 /NDF: 3965.4/69

In: 25.834 $\pm$ 0.056 χ^2 /NDF: 11115.1/55

Out: 26.199 $\pm$ 0.055 χ^2 /NDF: 12649.3/61

All: 26.020 $\pm$ 0.040 χ^2 /NDF: 23785.7/117

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.060 $\pm$ 0.160 χ^2 /NDF: 7357.6/32

Left Out: 23.962 $\pm$ 0.053 χ^2 /NDF:1922.4/24

Right Out: 13.071 $\pm$ 0.160 χ^2 /NDF: 7215.5/36

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

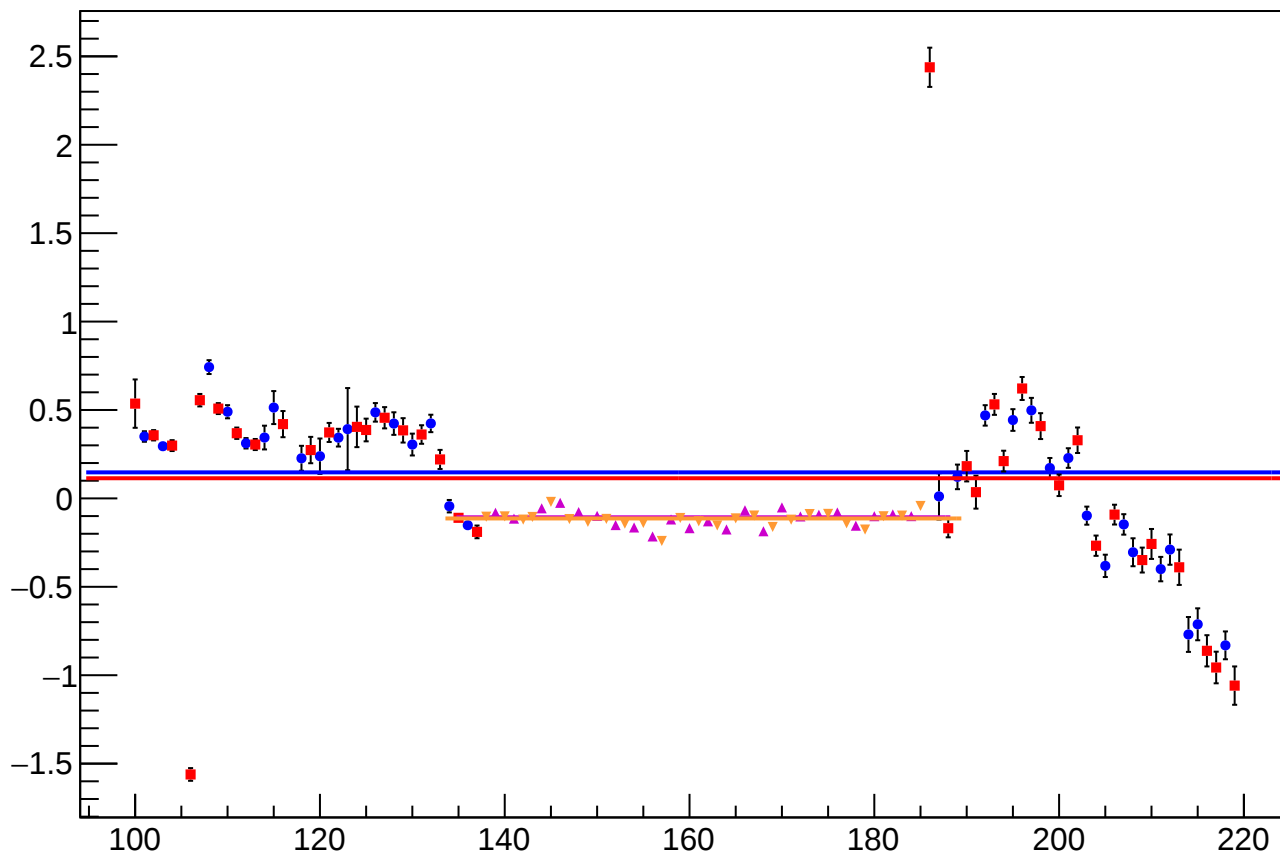
Right: 13.566 $\pm$ 0.113 χ^2 /NDF: 14592.3/69

In: 22.805 $\pm$ 0.051 χ^2 /NDF:12456.1/55

Out: 22.878 $\pm$ 0.050 χ^2 /NDF:13315.0/61

All: 22.842 $\pm$ 0.036 χ^2 /NDF: 25772.2/117

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.147 $\pm$ 0.008 χ^2 /NDF: 1538.4/32

Left Out: -0.113 $\pm$ 0.002 χ^2 /NDF: 291.0/24

Right Out: 0.114 $\pm$ 0.008 χ^2 /NDF: 4158.2/36

Left In: -0.107 $\pm$ 0.002 χ^2 /NDF: 321.8/22

Left: -0.110 $\pm$ 0.002 χ^2 /NDF: 616.6/47

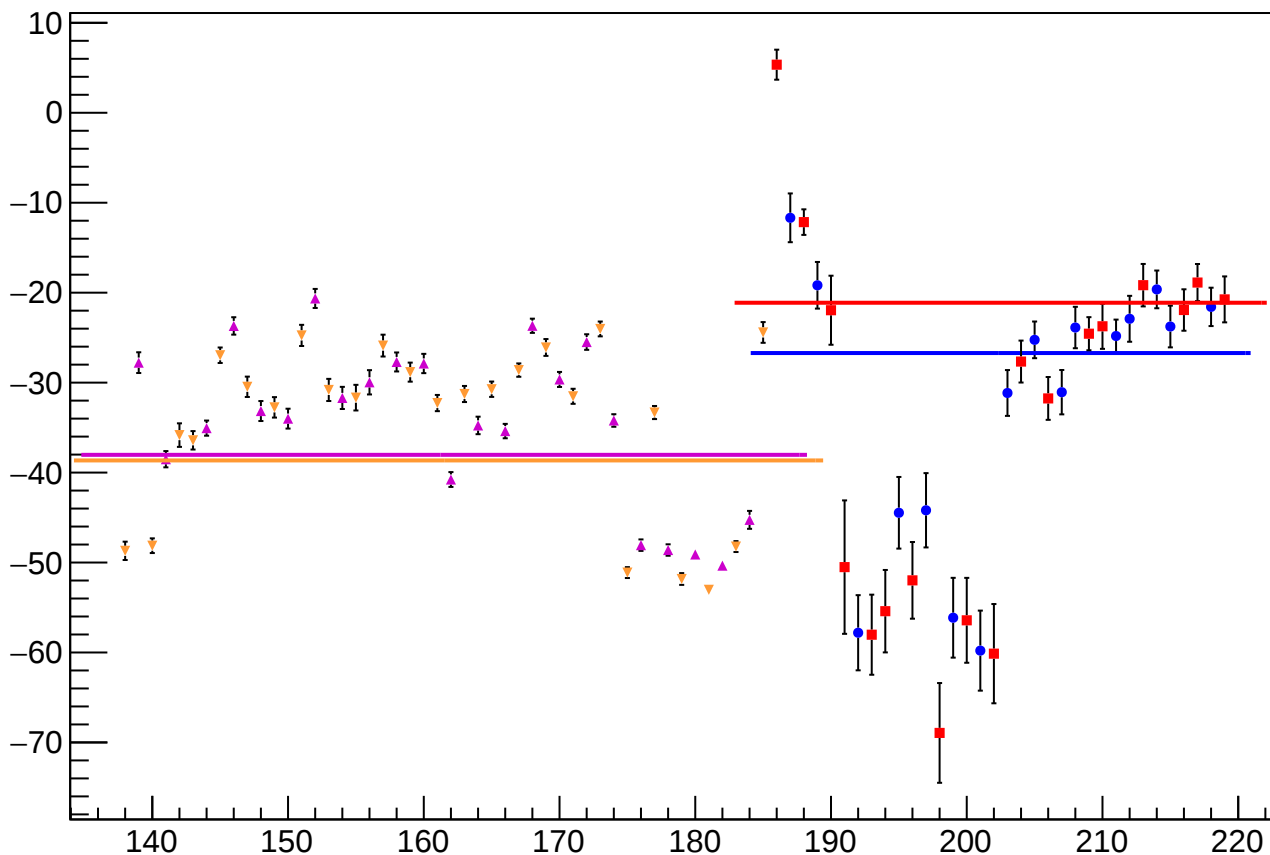
Right: 0.130 $\pm$ 0.006 χ^2 /NDF: 5705.0/69

In: -0.086 $\pm$ 0.002 χ^2 /NDF: 2738.3/55

Out: -0.095 $\pm$ 0.002 χ^2 /NDF: 5176.8/61

All: -0.090 $\pm$ 0.002 χ^2 /NDF: 7922.6/117

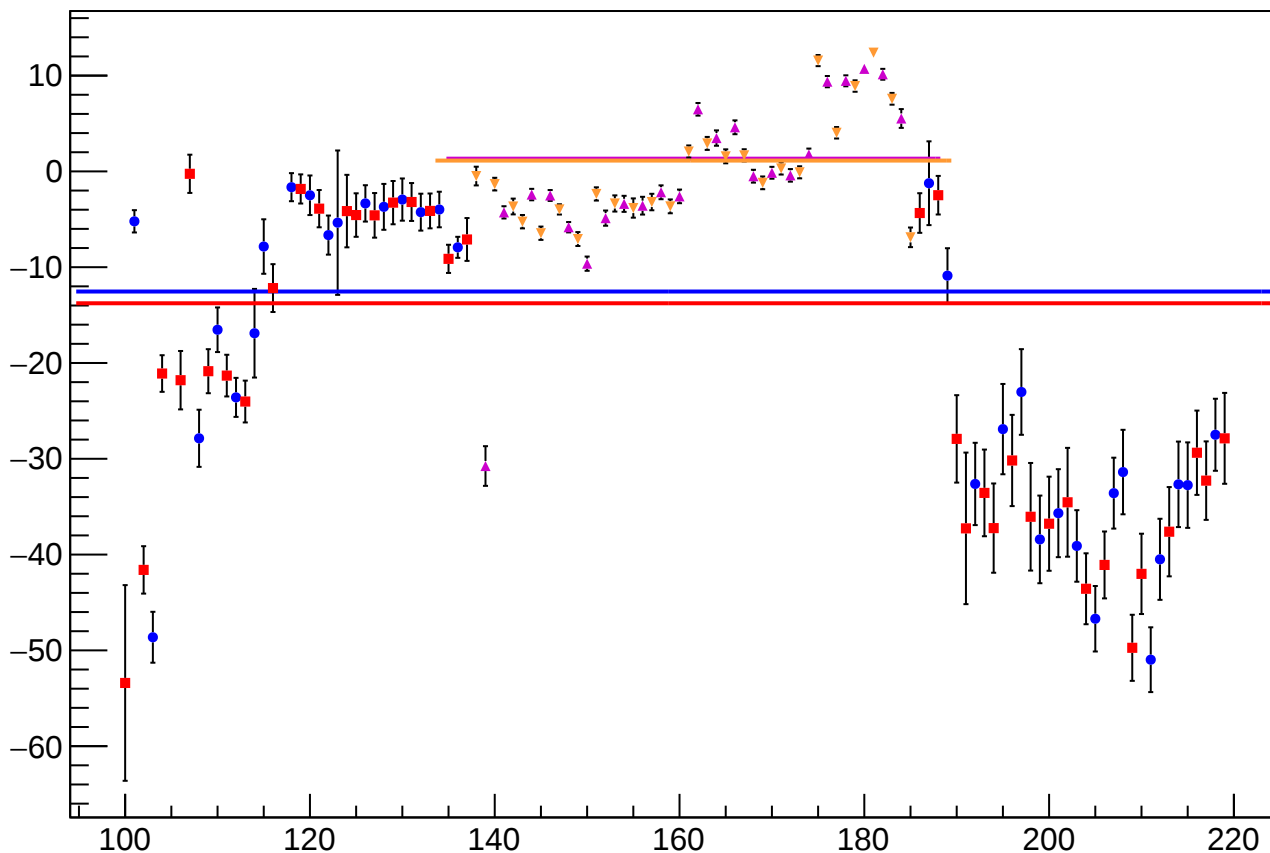
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -26.711 ± 0.645 χ^2/NDF : 261.9/15
 Left Out: -38.650 ± 0.169 χ^2/NDF : 4077.2/24
 Right Out: -21.119 ± 0.600 χ^2/NDF : 698.9/17
 Left In: -38.027 ± 0.173 χ^2/NDF : 3091.9/22

Left: -38.346 ± 0.121 χ^2/NDF : 7175.7/47
 Right: -23.712 ± 0.440 χ^2/NDF : 1001.1/33
 In: -37.267 ± 0.167 χ^2/NDF : 3640.6/38
 Out: -37.361 ± 0.163 χ^2/NDF : 5566.3/42
 All: -37.316 ± 0.117 χ^2/NDF : 9207.0/81

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.540 ± 0.422 χ^2/NDF : 1019.9/32

Left Out: 1.130 ± 0.136 χ^2/NDF : 1799.3/24

Right Out: -13.766 ± 0.429 χ^2/NDF : 1002.2/36

Left In: 1.329 ± 0.140 χ^2/NDF : 2048.0/22

Left: 1.227 ± 0.097 χ^2/NDF : 3848.4/47

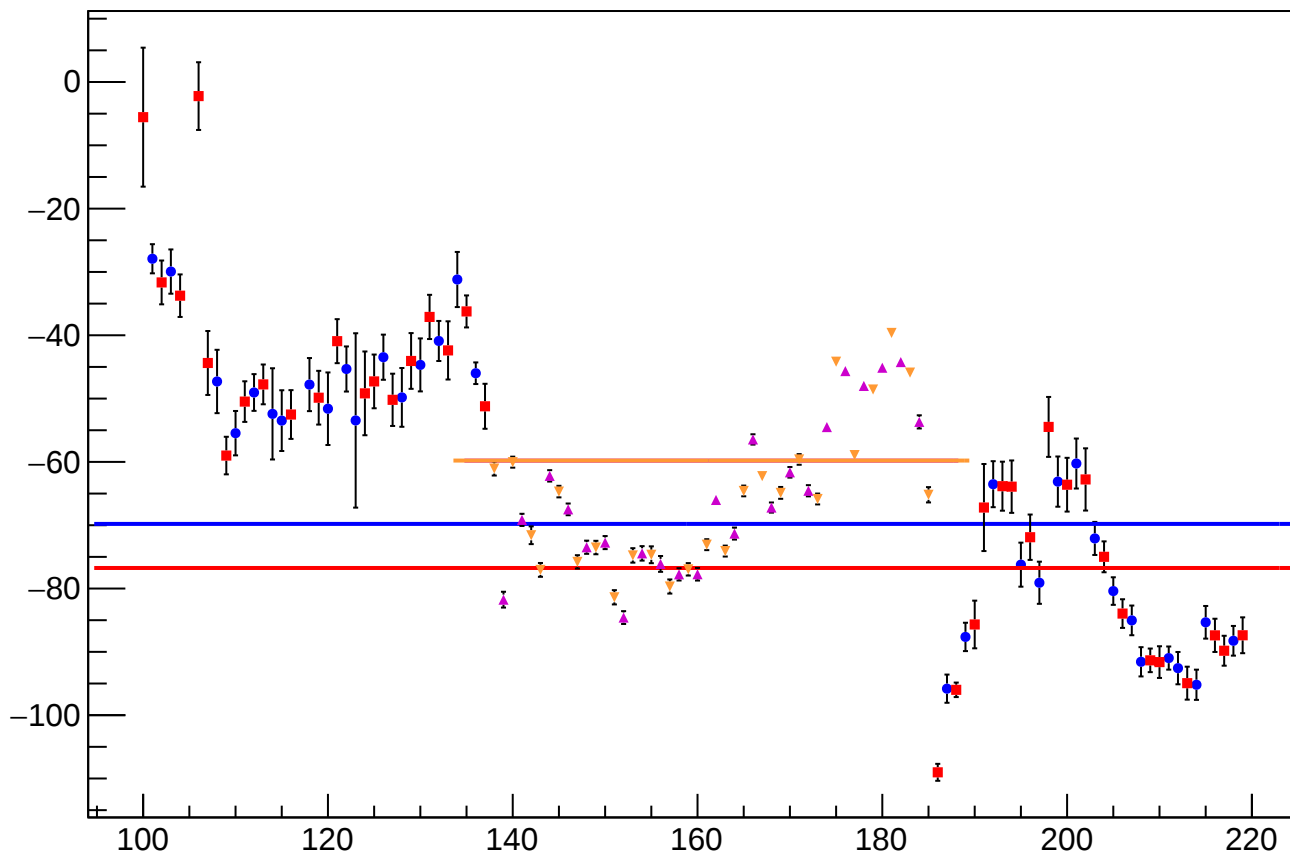
Right: -13.142 ± 0.301 χ^2/NDF : 2026.2/69

In: -0.041 ± 0.133 χ^2/NDF : 4040.0/55

Out: -0.227 ± 0.130 χ^2/NDF : 3894.9/61

All: -0.137 ± 0.093 χ^2/NDF : 7936.0/117

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -69.793 ± 0.507 $\chi^2/\text{NDF}: 1922.0/32$

Left Out: -59.789 ± 0.170 $\chi^2/\text{NDF}: 5837.7/24$

Right Out: -76.753 ± 0.472 $\chi^2/\text{NDF}: 2791.5/36$

Left In: -59.802 ± 0.173 $\chi^2/\text{NDF}: 5217.5/22$

Left: -59.795 ± 0.121 $\chi^2/\text{NDF}: 11055.3/47$

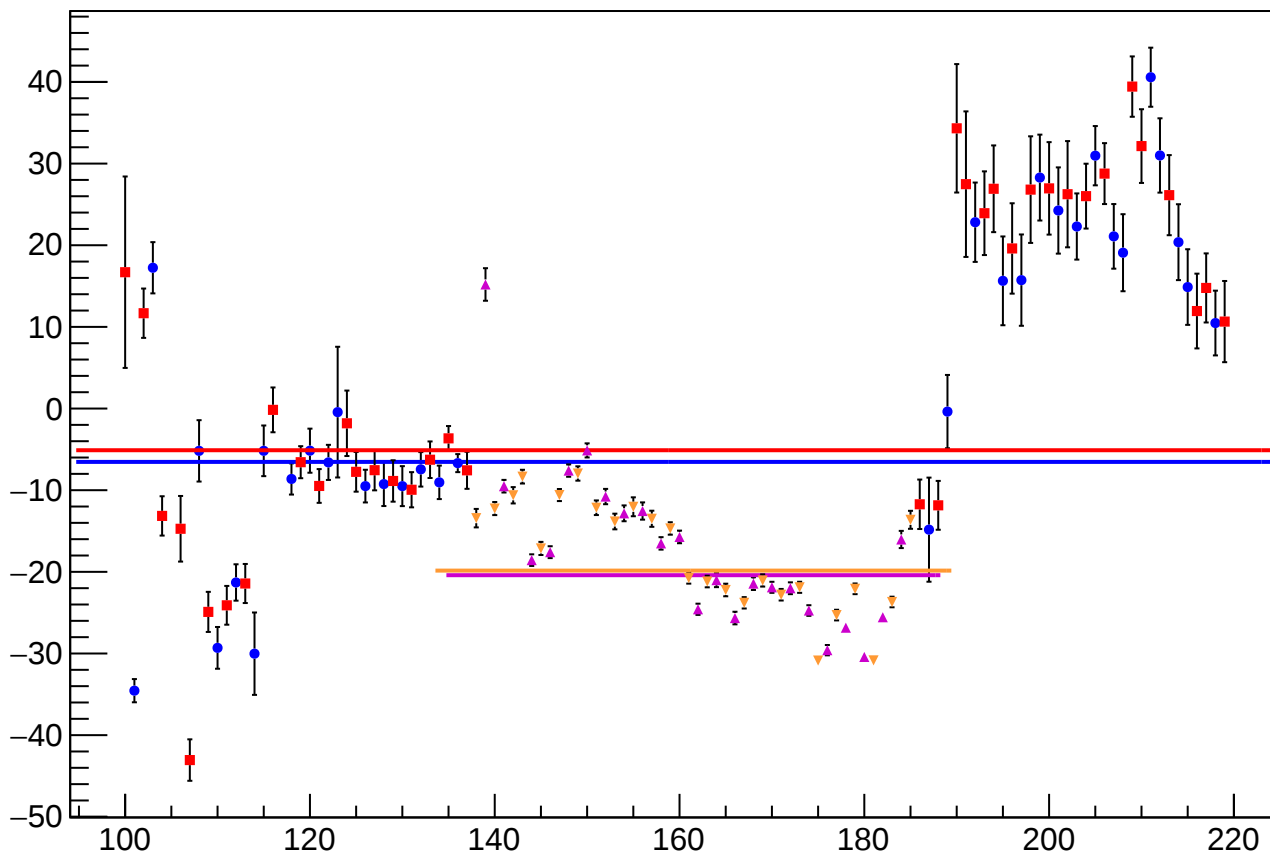
Right: -73.524 ± 0.345 $\chi^2/\text{NDF}: 4814.4/69$

In: -60.847 ± 0.164 $\chi^2/\text{NDF}: 7487.0/55$

Out: -61.740 ± 0.160 $\chi^2/\text{NDF}: 9773.0/61$

All: -61.304 ± 0.115 $\chi^2/\text{NDF}: 17275.2/117$

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.534 ± 0.475 $\chi^2/\text{NDF}: 1296.3/32$

Left Out: -19.847 ± 0.153 $\chi^2/\text{NDF}: 1931.3/24$

Right Out: -5.106 ± 0.492 $\chi^2/\text{NDF}: 1130.5/36$

Left In: -20.410 ± 0.157 $\chi^2/\text{NDF}: 2302.0/22$

Left: -20.122 ± 0.109 $\chi^2/\text{NDF}: 4239.8/47$

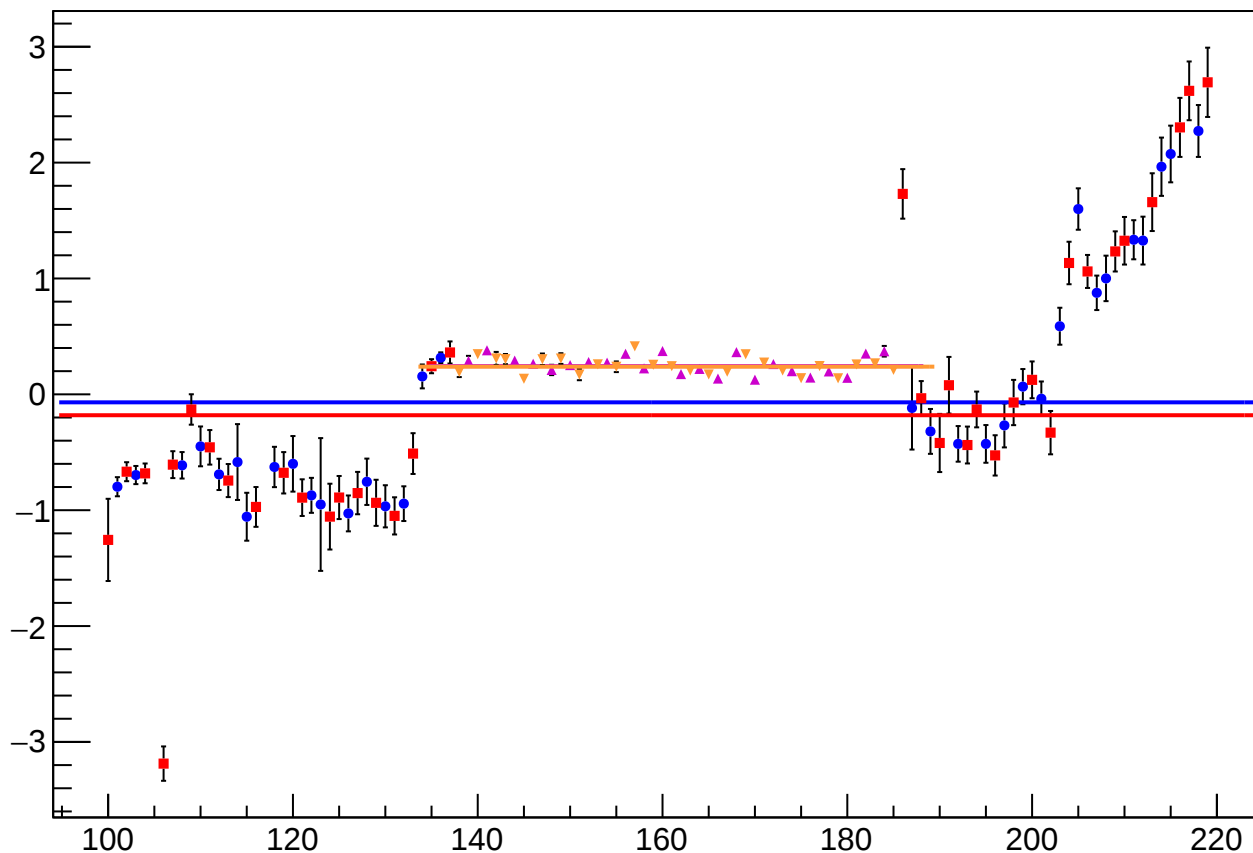
Right: -5.845 ± 0.342 $\chi^2/\text{NDF}: 2431.2/69$

In: -19.051 ± 0.149 $\chi^2/\text{NDF}: 4367.0/55$

Out: -18.552 ± 0.146 $\chi^2/\text{NDF}: 3880.0/61$

All: -18.796 ± 0.104 $\chi^2/\text{NDF}: 8252.7/117$

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.069 ± 0.024 χ^2/NDF : 999.8/32

Left Out: 0.239 ± 0.007 χ^2/NDF : 93.0/24

Right Out: -0.180 ± 0.024 χ^2/NDF : 1443.4/36

Left In: 0.243 ± 0.007 χ^2/NDF : 138.3/22

Left: 0.241 ± 0.005 χ^2/NDF : 231.5/47

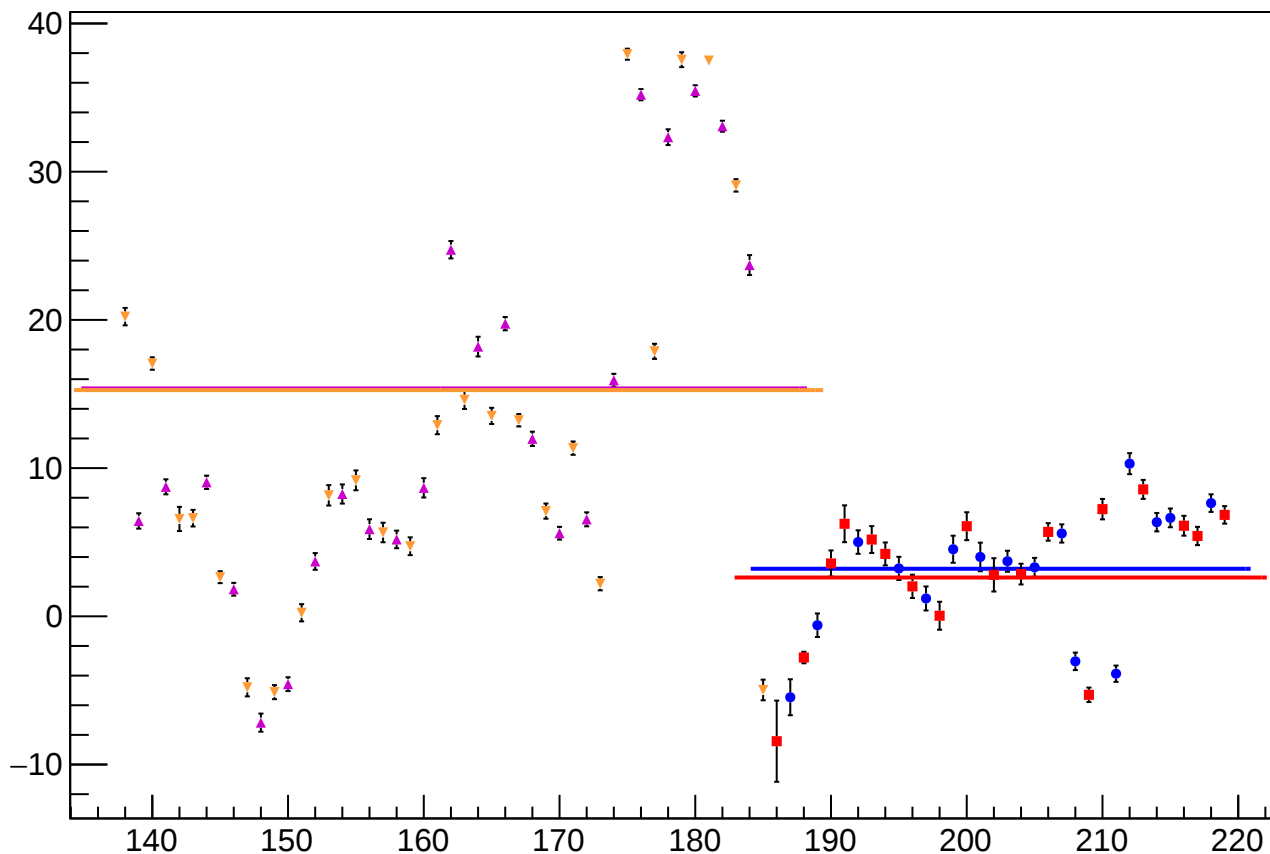
Right: -0.124 ± 0.017 χ^2/NDF : 2454.1/69

In: 0.217 ± 0.007 χ^2/NDF : 1298.6/55

Out: 0.206 ± 0.007 χ^2/NDF : 1815.6/61

All: 0.211 ± 0.005 χ^2/NDF : 3115.5/117

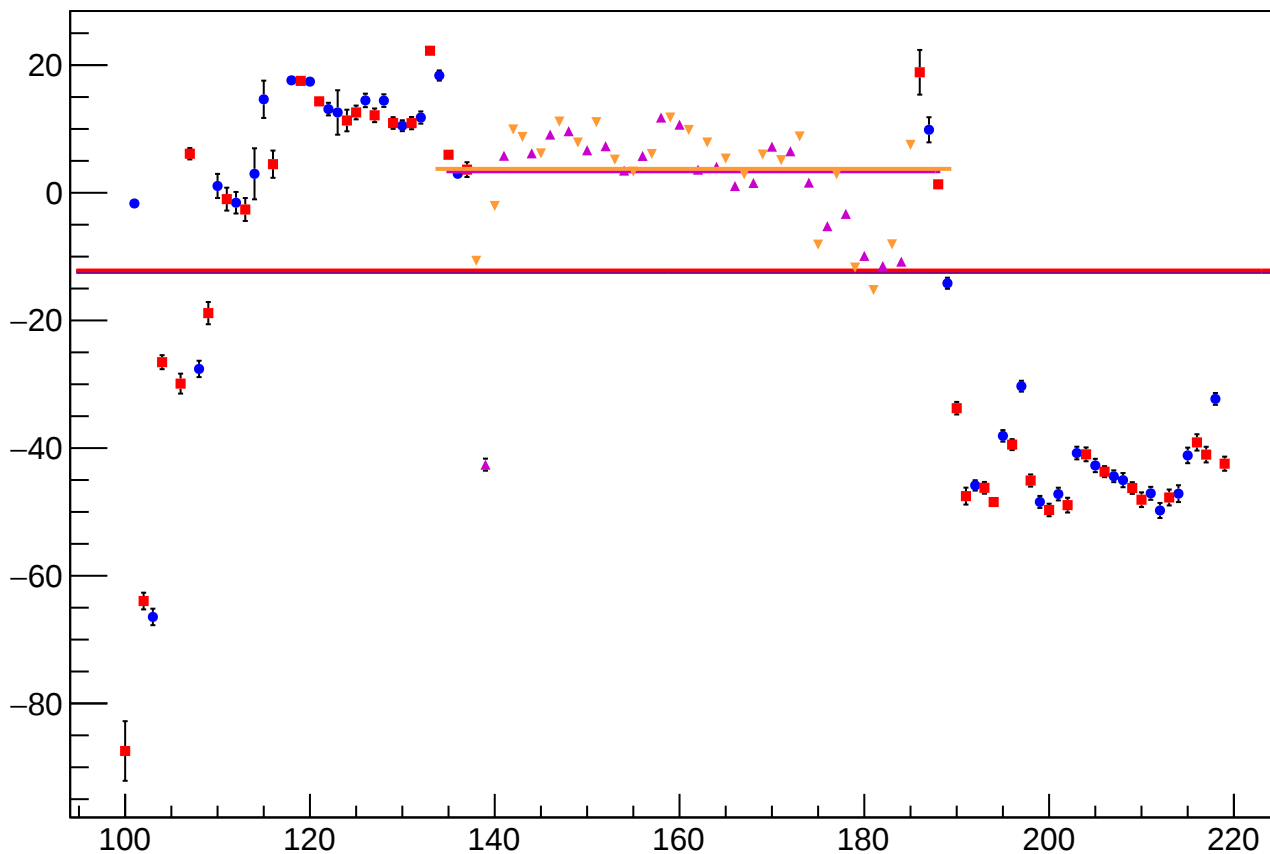
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.209 ± 0.175 $\chi^2/\text{NDF}: 592.0/15$
 Left Out: 15.263 ± 0.100 $\chi^2/\text{NDF}: 19175.2/24$
 Right Out: 2.618 ± 0.163 $\chi^2/\text{NDF}: 771.8/17$
 Left In: 15.377 ± 0.103 $\chi^2/\text{NDF}: 16268.9/22$

Left: 15.318 ± 0.072 $\chi^2/\text{NDF}: 35444.7/47$
 Right: 2.892 ± 0.119 $\chi^2/\text{NDF}: 1369.9/33$
 In: 12.268 ± 0.089 $\chi^2/\text{NDF}: 20443.8/38$
 Out: 11.783 ± 0.086 $\chi^2/\text{NDF}: 24303.9/42$
 All: 12.017 ± 0.062 $\chi^2/\text{NDF}: 44763.2/81$

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.378 ± 0.165 χ^2/NDF : 27148.1/32

Left Out: 3.746 ± 0.079 χ^2/NDF : 9247.4/24

Right Out: -12.182 ± 0.157 χ^2/NDF : 33040.6/36

Left In: 3.365 ± 0.081 χ^2/NDF : 8527.0/22

Left: 3.561 ± 0.057 χ^2/NDF : 17785.7/47

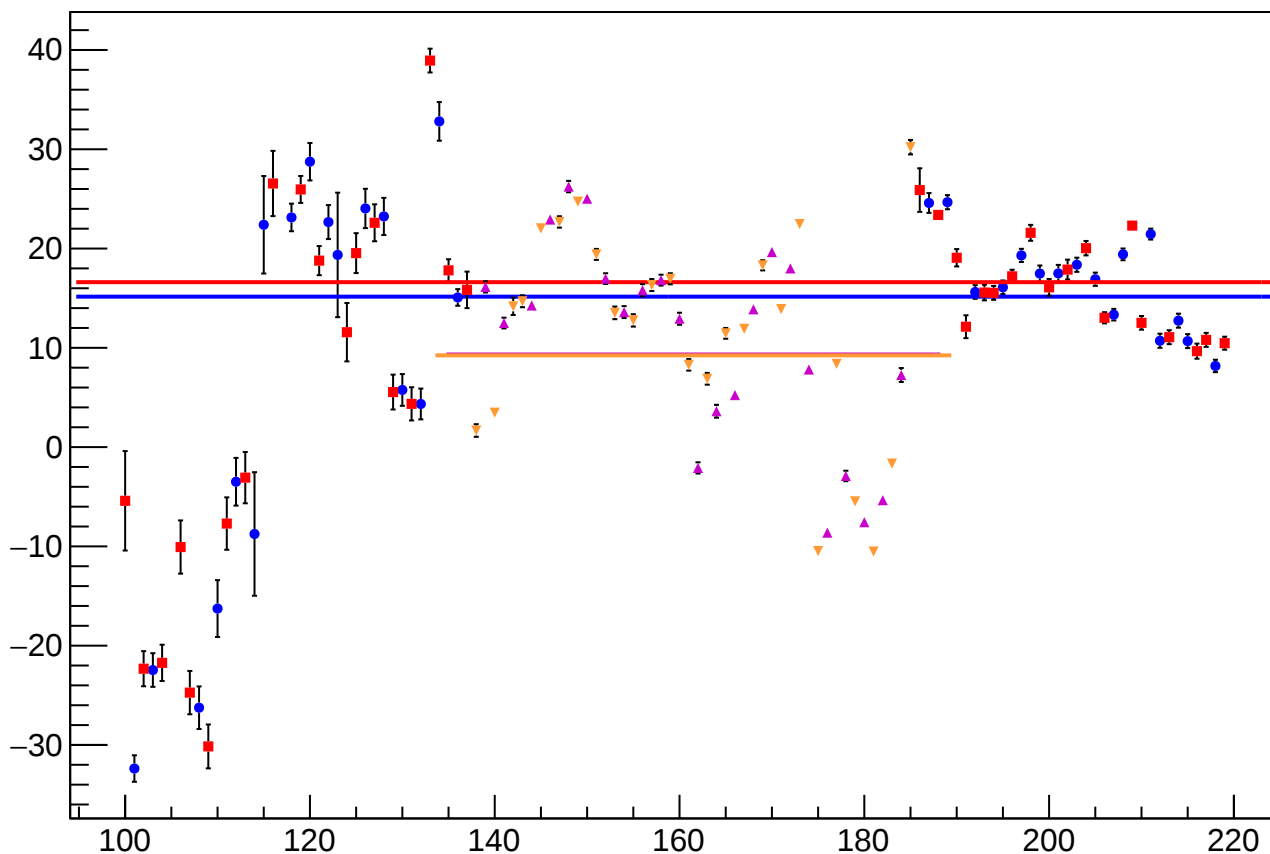
Right: -12.275 ± 0.114 χ^2/NDF : 60189.5/69

In: 0.288 ± 0.073 χ^2/NDF : 43015.3/55

Out: 0.544 ± 0.070 χ^2/NDF : 50511.4/61

All: 0.420 ± 0.051 χ^2/NDF : 93533.0/117

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.154+/-0.158 χ^2/NDF : 3400.6/32

Left Out: 9.242+/-0.101 χ^2/NDF :13633.2/24

Right Out: 16.614+/-0.145 χ^2/NDF : 3589.5/36

Left In: 9.328+/-0.103 χ^2/NDF :11968.5/22

Left: 9.284+/-0.072 χ^2/NDF : 25602.0/47

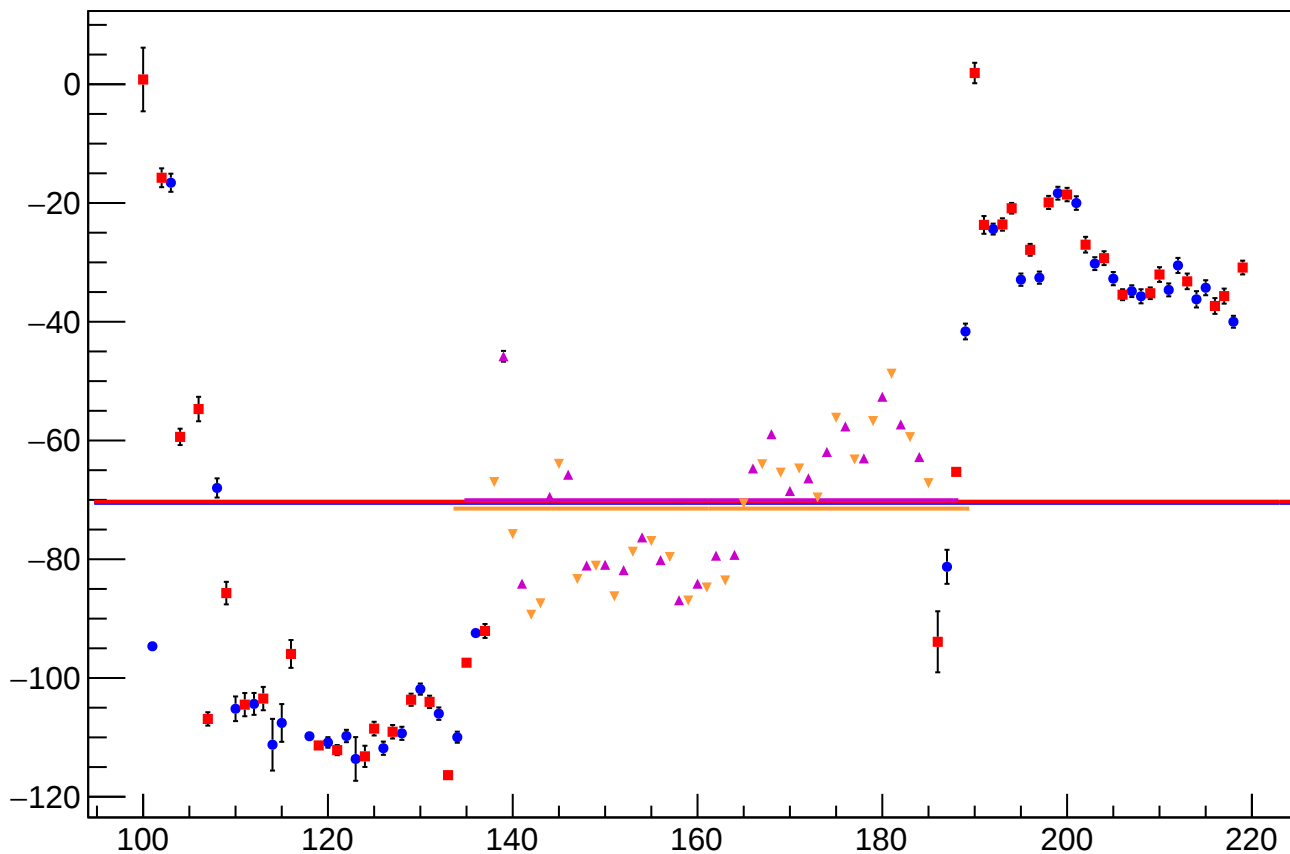
Right: 15.946+/-0.107 χ^2/NDF : 7036.1/69

In: 11.048+/-0.086 χ^2/NDF :16321.8/55

Out: 11.636+/-0.083 χ^2/NDF :18956.1/61

All: 11.353+/-0.060 χ^2/NDF : 35302.1/117

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -70.495 ± 0.188 χ^2/NDF : 37748.9/32

Left Out: -71.465 ± 0.089 χ^2/NDF : 16409.7/24

Right Out: -70.304 ± 0.182 χ^2/NDF : 46118.6/36

Left In: -70.061 ± 0.092 χ^2/NDF : 13058.5/22

Left: -70.782 ± 0.064 χ^2/NDF : 29588.5/47

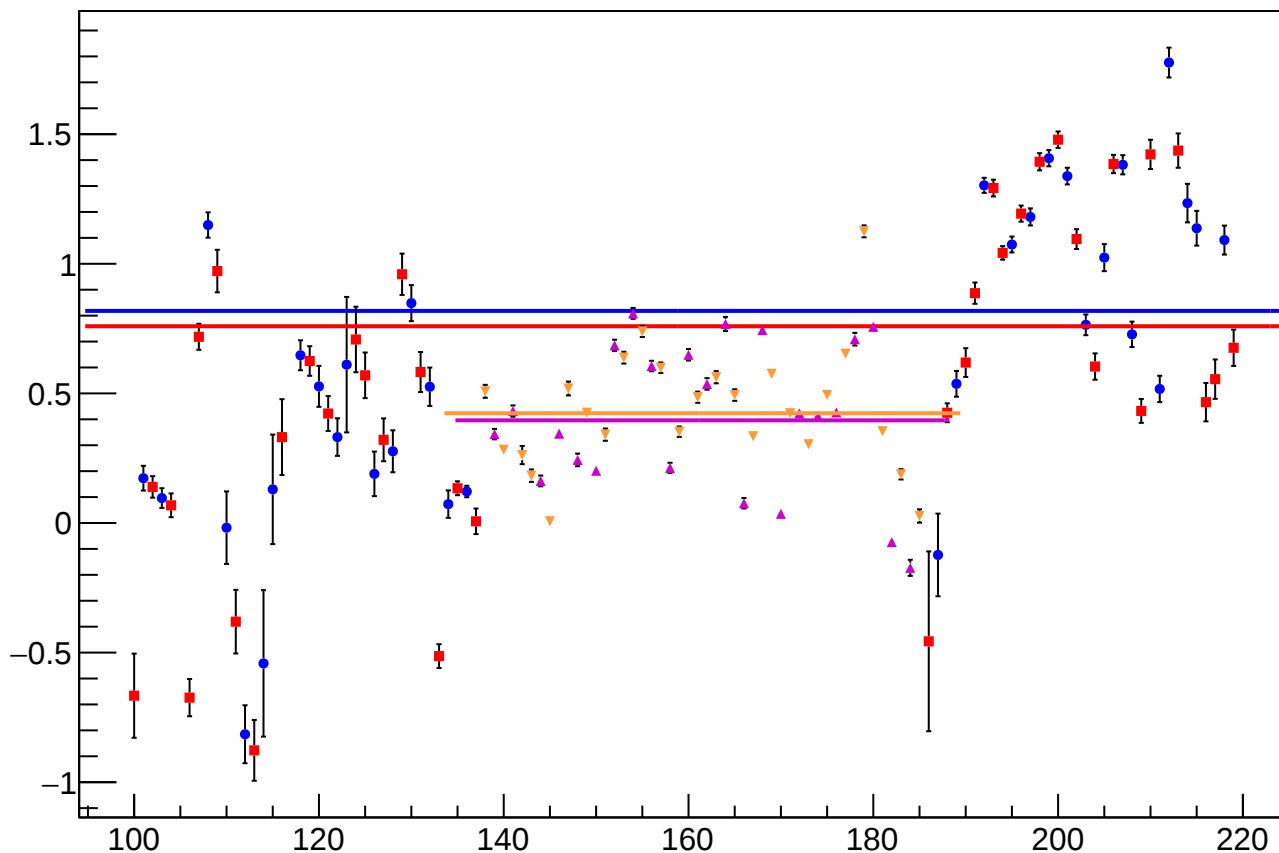
Right: -70.396 ± 0.131 χ^2/NDF : 83868.0/69

In: -70.144 ± 0.082 χ^2/NDF : 50811.7/55

Out: -71.240 ± 0.080 χ^2/NDF : 62561.1/61

All: -70.708 ± 0.057 χ^2/NDF : 113463.6/117

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.818 ± 0.008 χ^2/NDF : 4039.1/32

Left Out: 0.424 ± 0.004 χ^2/NDF : 2885.0/24

Right Out: 0.759 ± 0.008 χ^2/NDF : 5138.1/36

Left In: 0.396 ± 0.004 χ^2/NDF : 4051.5/22

Left: 0.410 ± 0.003 χ^2/NDF : 6958.5/47

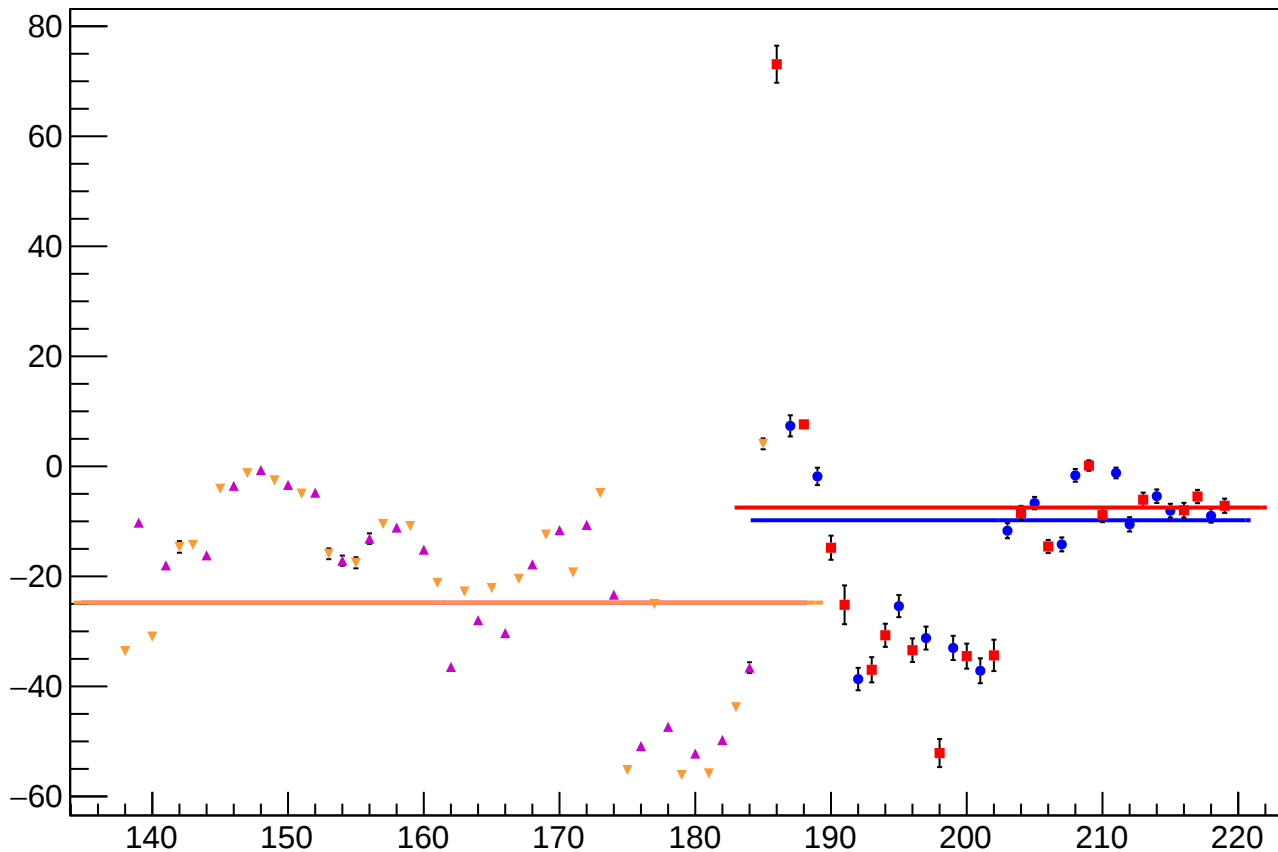
Right: 0.787 ± 0.006 χ^2/NDF : 9203.9/69

In: 0.481 ± 0.004 χ^2/NDF : 10168.0/55

Out: 0.494 ± 0.004 χ^2/NDF : 9442.9/61

All: 0.488 ± 0.003 χ^2/NDF : 19617.2/117

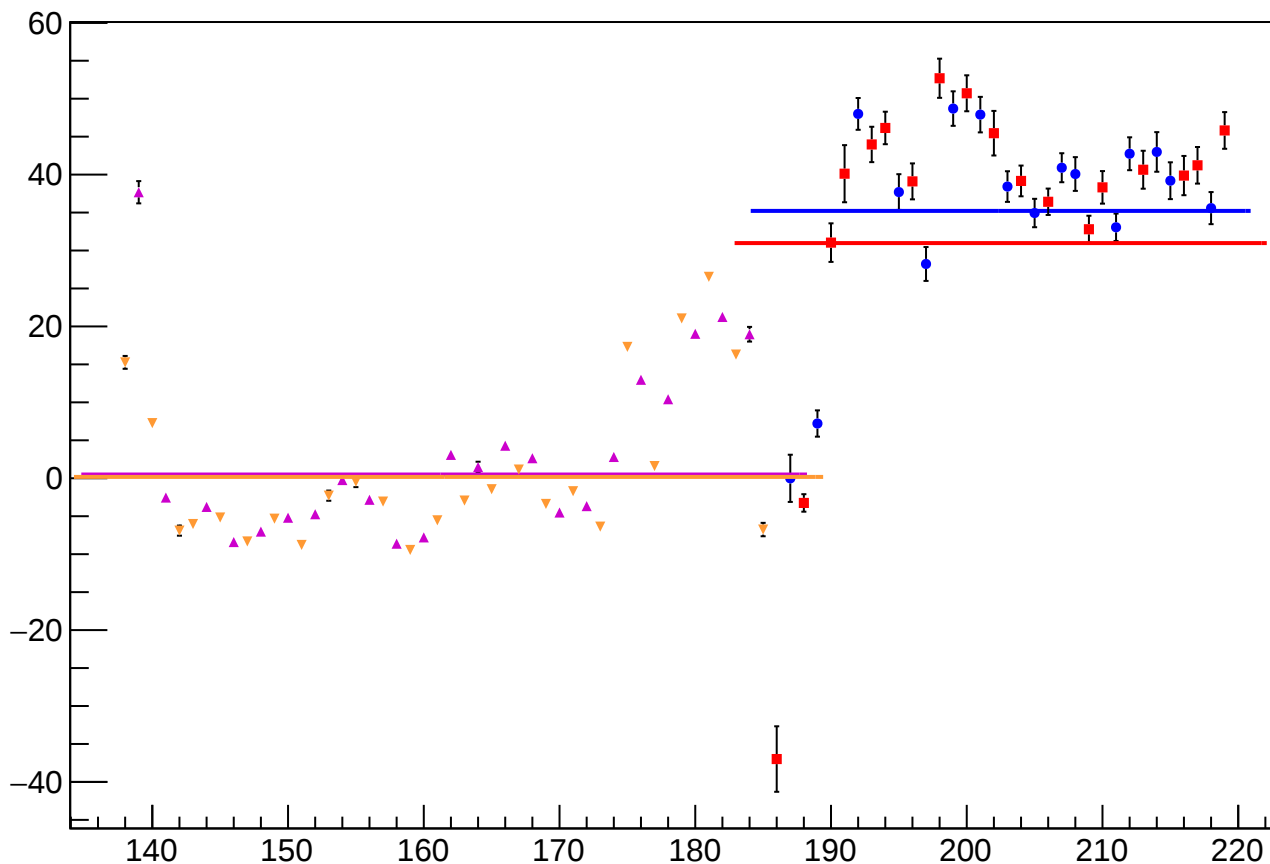
reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.801 ± 0.352 χ^2/NDF : 892.6/15
 Left Out: -24.769 ± 0.139 χ^2/NDF : 18318.8/24
 Right Out: -7.484 ± 0.343 χ^2/NDF : 2040.6/17
 Left In: -24.775 ± 0.143 χ^2/NDF : 14807.4/22

Left: -24.772 ± 0.100 χ^2/NDF : 33126.2/47
 Right: -8.611 ± 0.246 χ^2/NDF : 2955.5/33
 In: -22.665 ± 0.132 χ^2/NDF : 17250.4/38
 Out: -22.318 ± 0.129 χ^2/NDF : 22540.0/42
 All: -22.487 ± 0.092 χ^2/NDF : 39793.9/81

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 35.219 ± 0.535 $\chi^2/\text{NDF}: 543.7/15$

Left Out: 0.177 ± 0.109 $\chi^2/\text{NDF}: 8295.6/24$

Right Out: 30.979 ± 0.512 $\chi^2/\text{NDF}: 1515.2/17$

Left In: 0.493 ± 0.112 $\chi^2/\text{NDF}: 6555.4/22$

Left: 0.330 ± 0.078 $\chi^2/\text{NDF}: 14855.0/47$

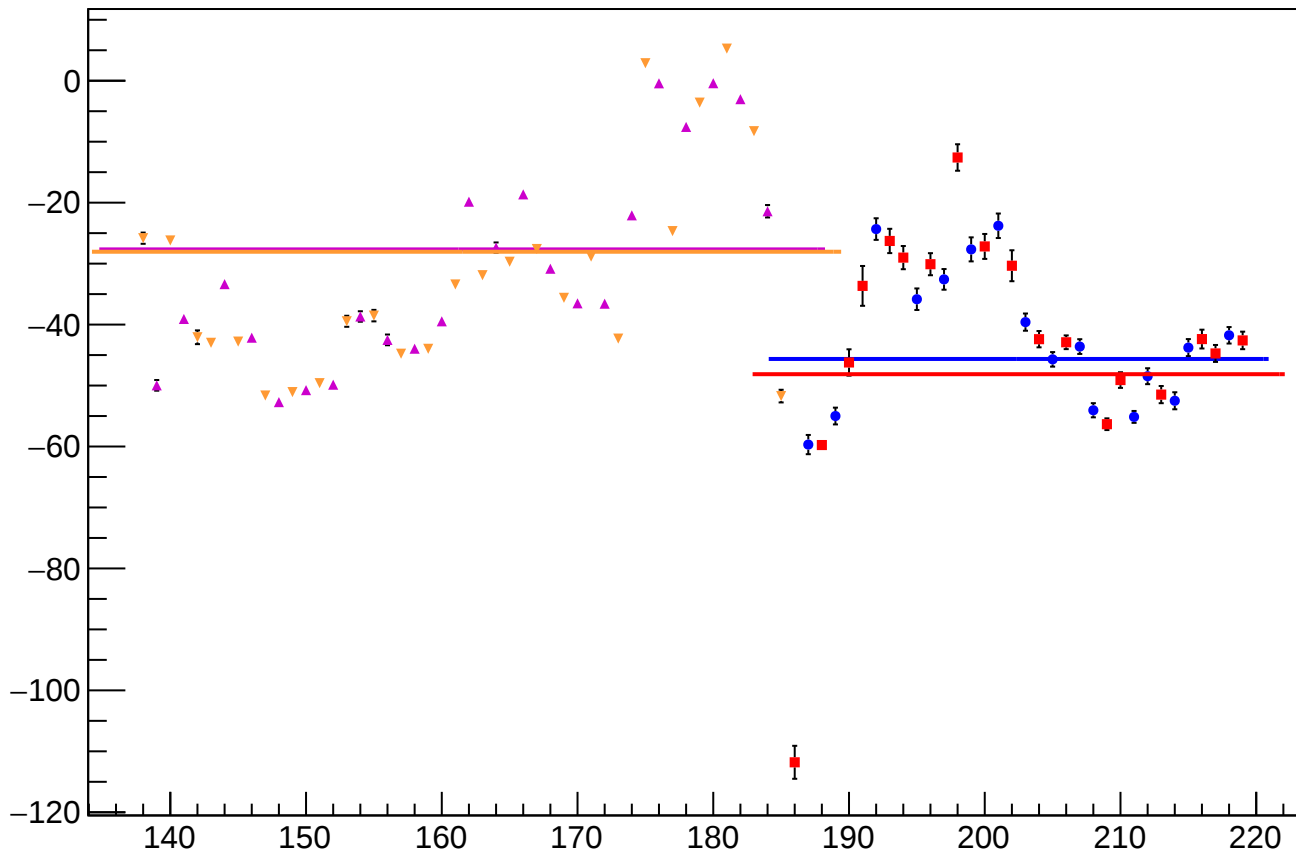
Right: 33.004 ± 0.370 $\chi^2/\text{NDF}: 2091.6/33$

In: 1.953 ± 0.110 $\chi^2/\text{NDF}: 11132.3/38$

Out: 1.503 ± 0.106 $\chi^2/\text{NDF}: 13278.4/42$

All: 1.721 ± 0.076 $\chi^2/\text{NDF}: 24419.4/81$

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -27.862 ± 0.100 $\chi^2/\text{NDF}: 32151.3/47$

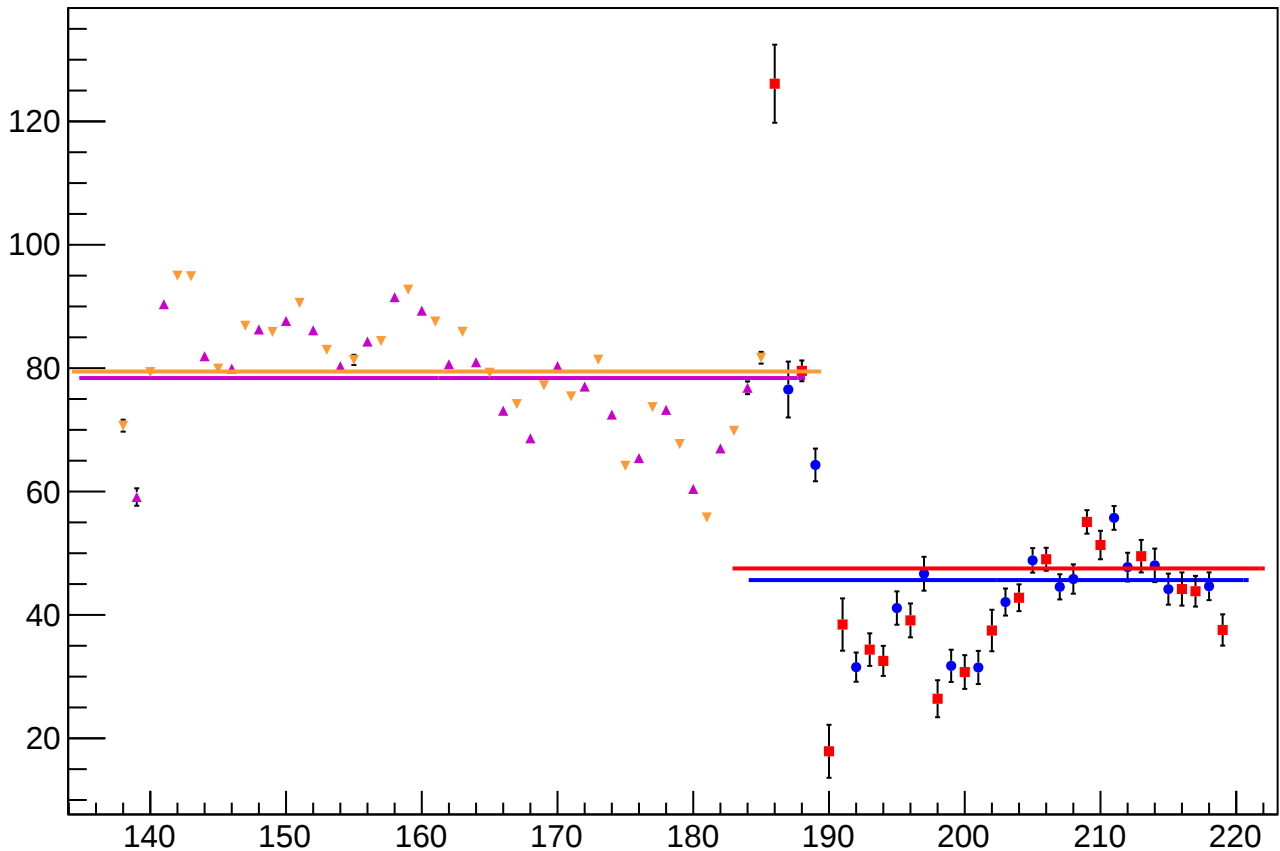
Right: -46.958 ± 0.239 $\chi^2/\text{NDF}: 2589.1/33$

In: -30.246 ± 0.132 $\chi^2/\text{NDF}: 18056.5/38$

Out: -31.125 ± 0.129 $\chi^2/\text{NDF}: 22094.3/42$

All: -30.696 ± 0.092 $\chi^2/\text{NDF}: 40173.6/81$

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 45.647 $\pm$ 0.603 χ^2 /NDF: 225.6/15

Left Out: 79.456 $\pm$ 0.123 χ^2 /NDF: 6077.1/24

Right Out: 47.532 $\pm$ 0.595 χ^2 /NDF: 779.0/17

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

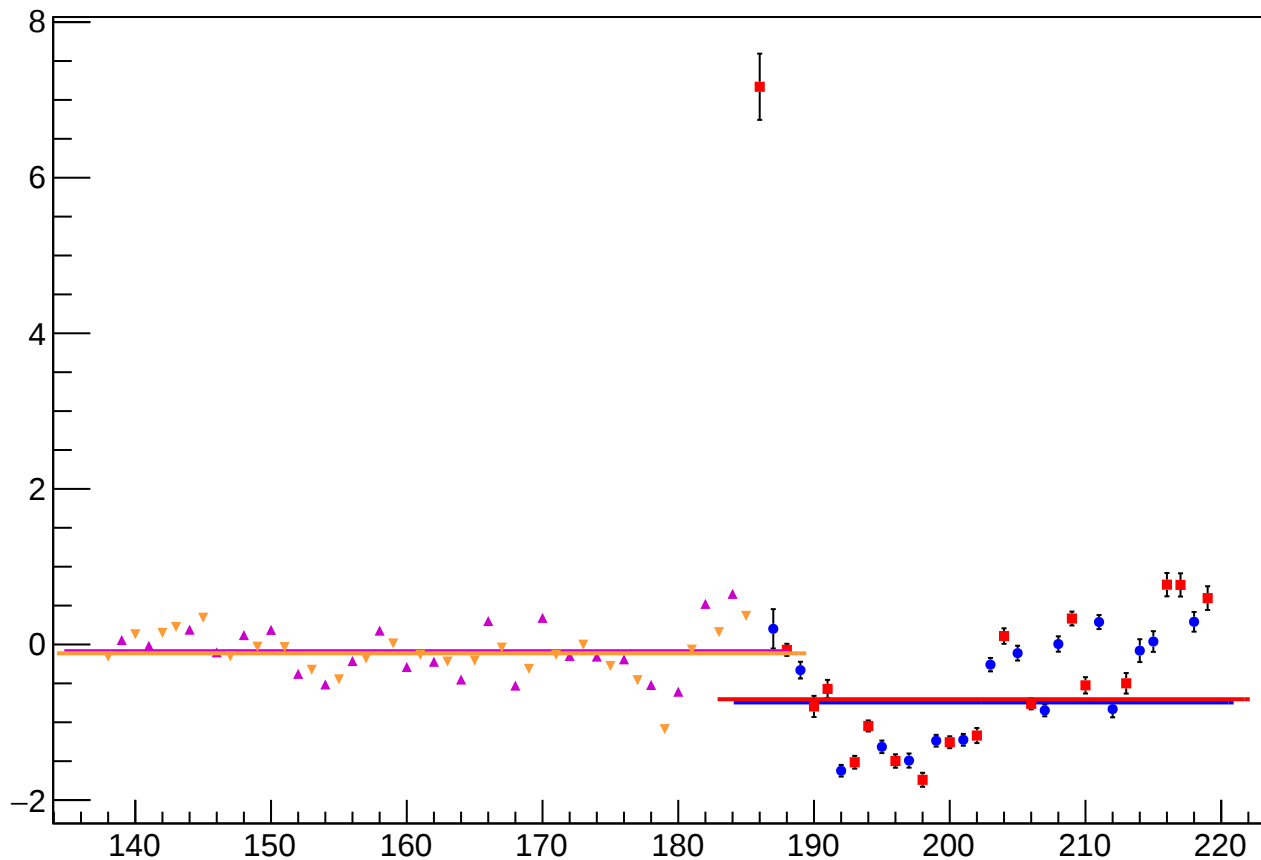
Right: 46.604 $\pm$ 0.424 χ^2 /NDF: 1009.6/33

In: 77.012 $\pm$ 0.124 χ^2 /NDF: 7754.0/38

Out: 78.142 $\pm$ 0.121 χ^2 /NDF: 9620.2/42

All: 77.593 $\pm$ 0.086 χ^2 /NDF: 17416.9/81

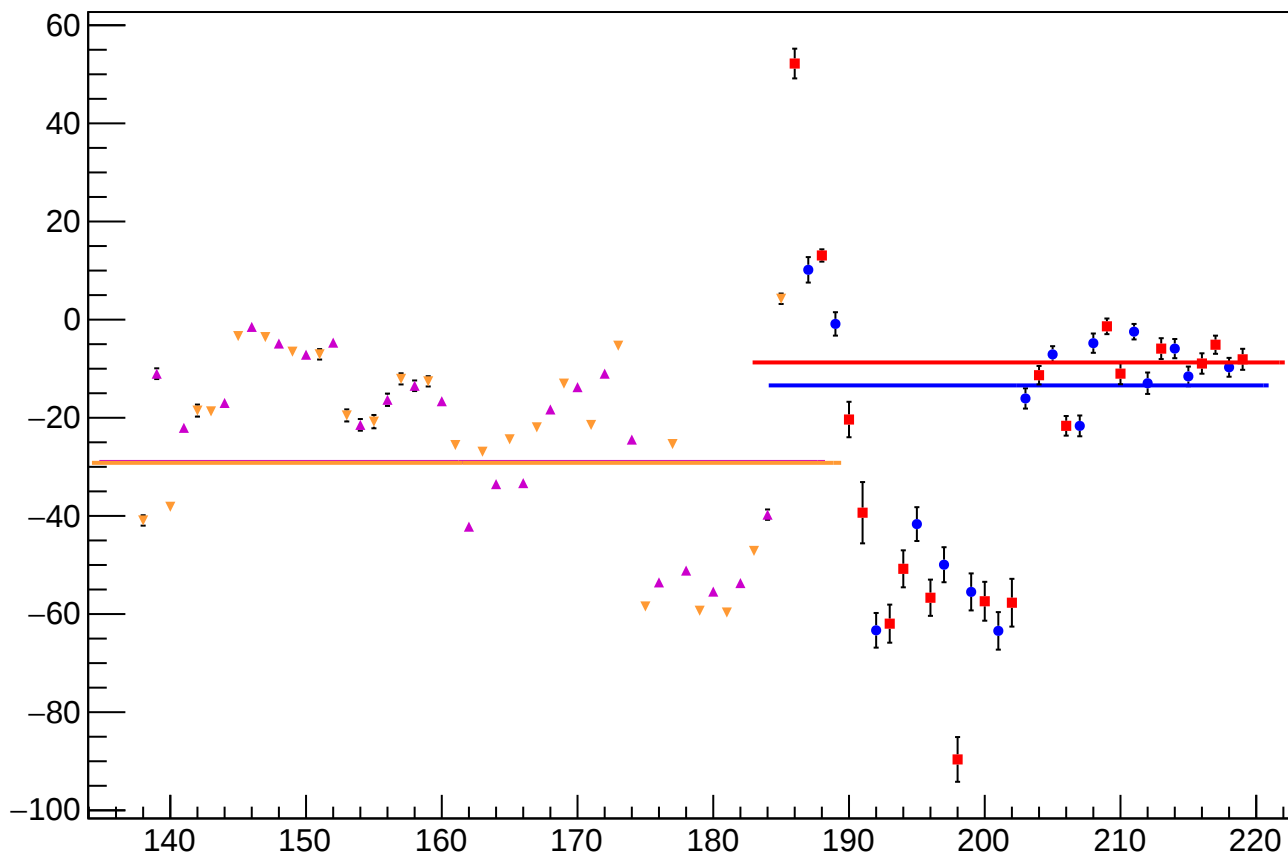
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.745 ± 0.024 χ^2/NDF : 757.4/15
 Left Out: -0.113 ± 0.006 χ^2/NDF : 2303.1/24
 Right Out: -0.704 ± 0.023 χ^2/NDF : 1298.5/17
 Left In: -0.086 ± 0.006 χ^2/NDF : 3132.1/22

Left: -0.100 ± 0.004 χ^2/NDF : 5446.4/47
 Right: -0.724 ± 0.016 χ^2/NDF : 2057.5/33
 In: -0.124 ± 0.006 χ^2/NDF : 4626.5/38
 Out: -0.147 ± 0.006 χ^2/NDF : 4222.0/42
 All: -0.136 ± 0.004 χ^2/NDF : 8857.4/81

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected

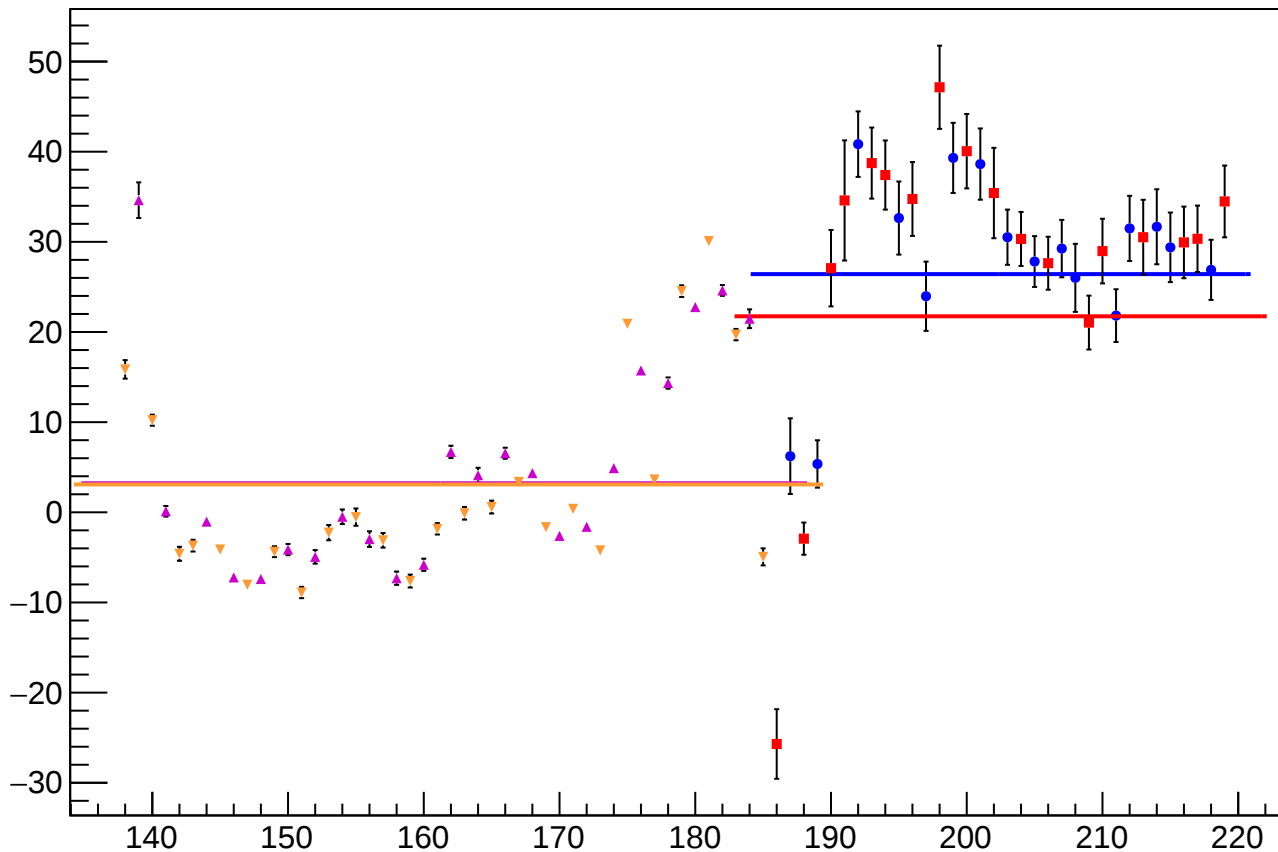


Right In: -13.404 ± 0.562 $\chi^2/\text{NDF}: 894.7/15$
 Left Out: -29.180 ± 0.157 $\chi^2/\text{NDF}: 16912.2/24$
 Right Out: -8.723 ± 0.549 $\chi^2/\text{NDF}: 1861.7/17$
 Left In: -29.003 ± 0.160 $\chi^2/\text{NDF}: 13416.8/22$

Left: -29.093 ± 0.112 $\chi^2/\text{NDF}: 30329.6/47$
 Right: -11.011 ± 0.393 $\chi^2/\text{NDF}: 2791.9/33$
 In: -27.834 ± 0.154 $\chi^2/\text{NDF}: 15025.0/38$
 Out: -27.638 ± 0.151 $\chi^2/\text{NDF}: 20057.8/42$

All: -27.734 ± 0.108 $\chi^2/\text{NDF}: 35083.7/81$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 26.421 ± 0.862 $\chi^2/\text{NDF}: 135.9/15$

Left Out: 3.091 ± 0.124 $\chi^2/\text{NDF}: 8084.1/24$

Right Out: 21.742 ± 0.824 $\chi^2/\text{NDF}: 490.8/17$

Left In: 3.221 ± 0.127 $\chi^2/\text{NDF}: 6237.6/22$

Left: 3.155 ± 0.089 $\chi^2/\text{NDF}: 14322.2/47$

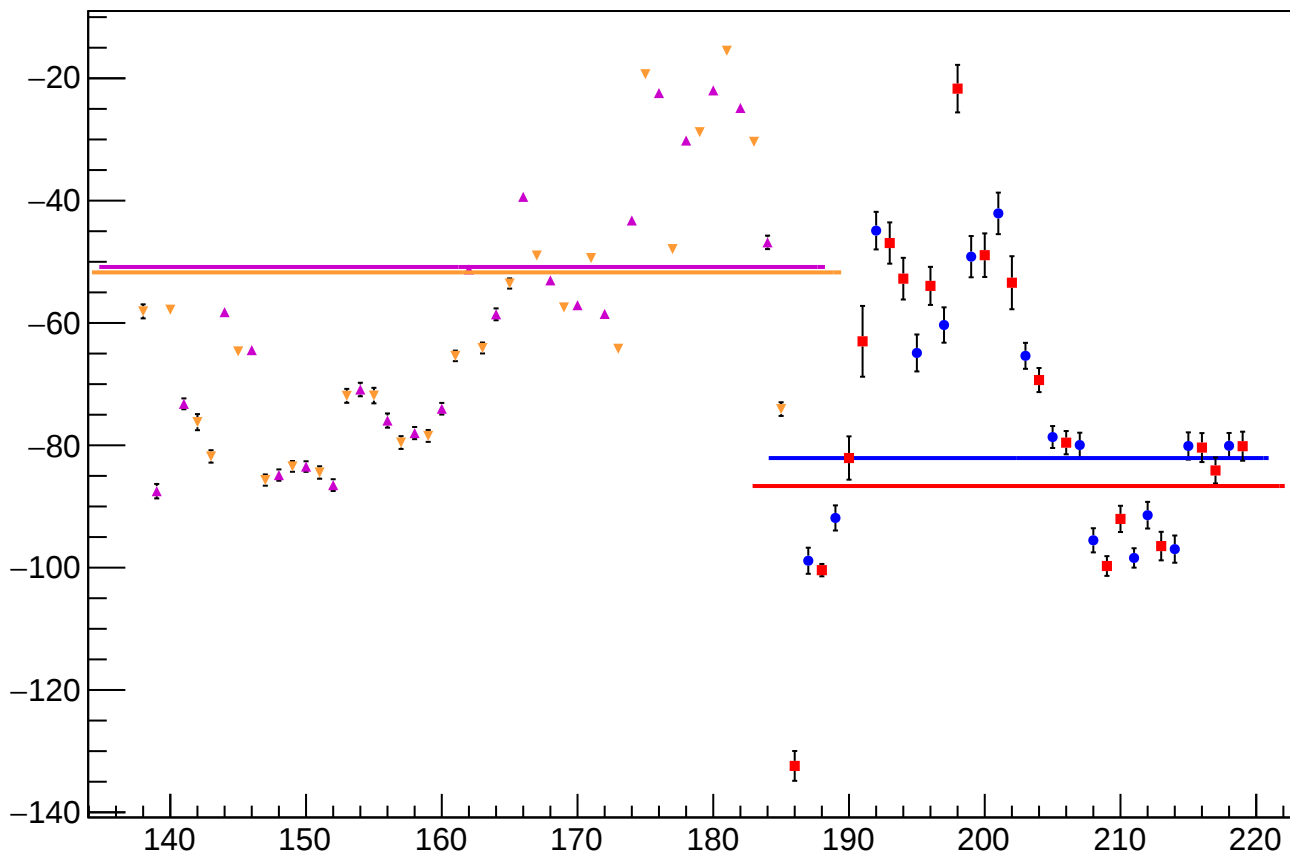
Right: 23.977 ± 0.596 $\chi^2/\text{NDF}: 642.2/33$

In: 3.714 ± 0.126 $\chi^2/\text{NDF}: 7082.7/38$

Out: 3.506 ± 0.123 $\chi^2/\text{NDF}: 9075.6/42$

All: 3.608 ± 0.088 $\chi^2/\text{NDF}: 16159.6/81$

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -82.085 ± 0.555 $\chi^2/\text{NDF}: 838.9/15$
 Left Out: -51.729 ± 0.158 $\chi^2/\text{NDF}: 19538.0/24$
 Right Out: -86.657 ± 0.525 $\chi^2/\text{NDF}: 1552.3/17$
 Left In: -50.844 ± 0.160 $\chi^2/\text{NDF}: 17272.0/22$

Left: -51.293 ± 0.112 $\chi^2/\text{NDF}: 36825.5/47$

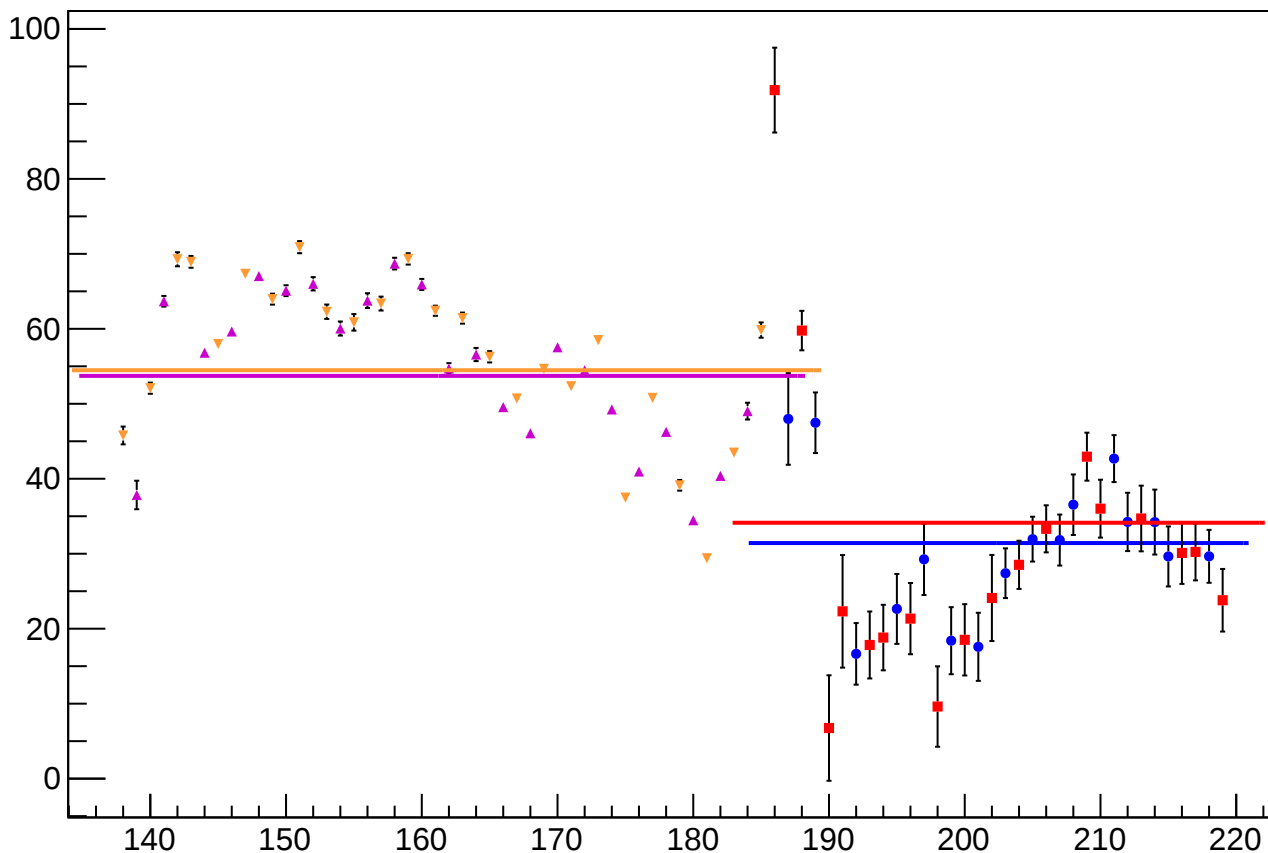
Right: -84.501 ± 0.381 $\chi^2/\text{NDF}: 2427.0/33$

In: -53.241 ± 0.154 $\chi^2/\text{NDF}: 21032.1/38$

Out: -54.628 ± 0.151 $\chi^2/\text{NDF}: 25151.2/42$

All: -53.946 ± 0.108 $\chi^2/\text{NDF}: 46224.7/81$

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.423+/-0.976 χ^2/NDF : 75.0/15

Left Out: 54.476+/-0.140 χ^2/NDF : 6266.9/24

Right Out: 34.132+/-0.967 χ^2/NDF : 303.1/17

Left In: 53.724+/-0.143 χ^2/NDF : 4585.7/22

Left: 54.107+/-0.100 χ^2/NDF : 10866.7/47

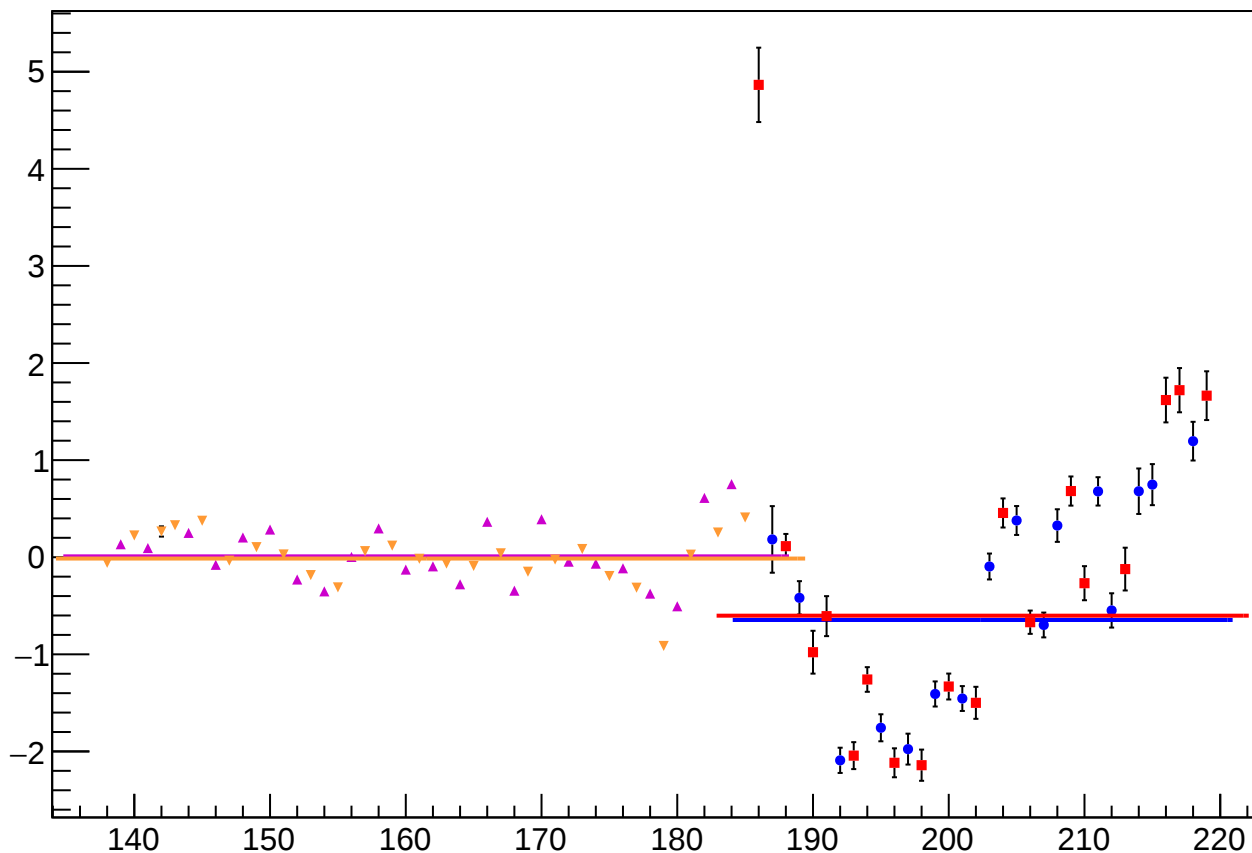
Right: 32.790+/-0.687 χ^2/NDF : 382.1/33

In: 53.254+/-0.142 χ^2/NDF : 5172.1/38

Out: 54.057+/-0.139 χ^2/NDF : 7003.8/42

All: 53.663+/-0.099 χ^2/NDF : 12192.3/81

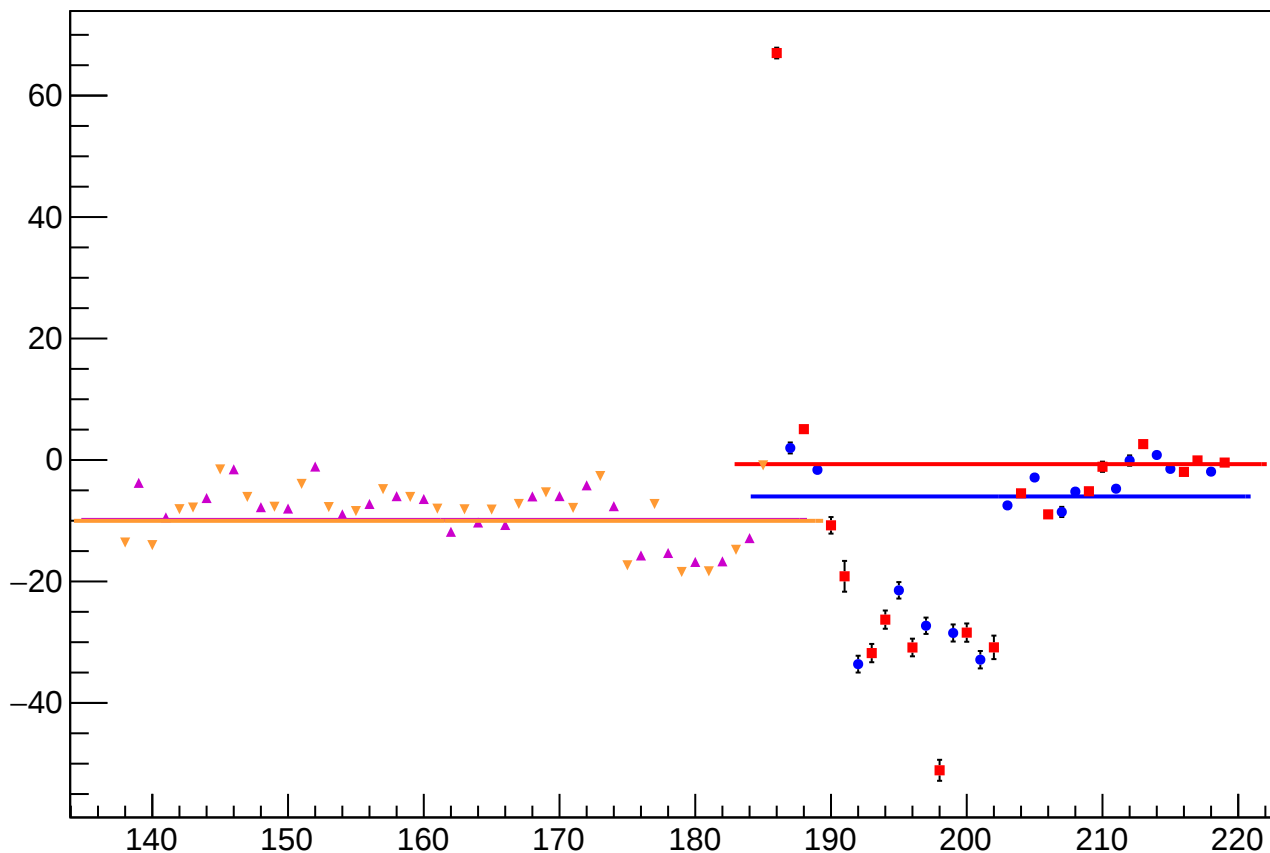
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.646 ± 0.039 $\chi^2/\text{NDF}: 681.1/15$
 Left Out: -0.014 ± 0.006 $\chi^2/\text{NDF}: 1654.7/24$
 Right Out: -0.602 ± 0.039 $\chi^2/\text{NDF}: 1038.5/17$
 Left In: 0.009 ± 0.007 $\chi^2/\text{NDF}: 2220.5/22$

Left: -0.003 ± 0.005 $\chi^2/\text{NDF}: 3881.4/47$
 Right: -0.624 ± 0.027 $\chi^2/\text{NDF}: 1720.3/33$
 In: -0.009 ± 0.006 $\chi^2/\text{NDF}: 3176.0/38$
 Out: -0.030 ± 0.006 $\chi^2/\text{NDF}: 2919.0/42$
 All: -0.019 ± 0.005 $\chi^2/\text{NDF}: 6100.2/81$

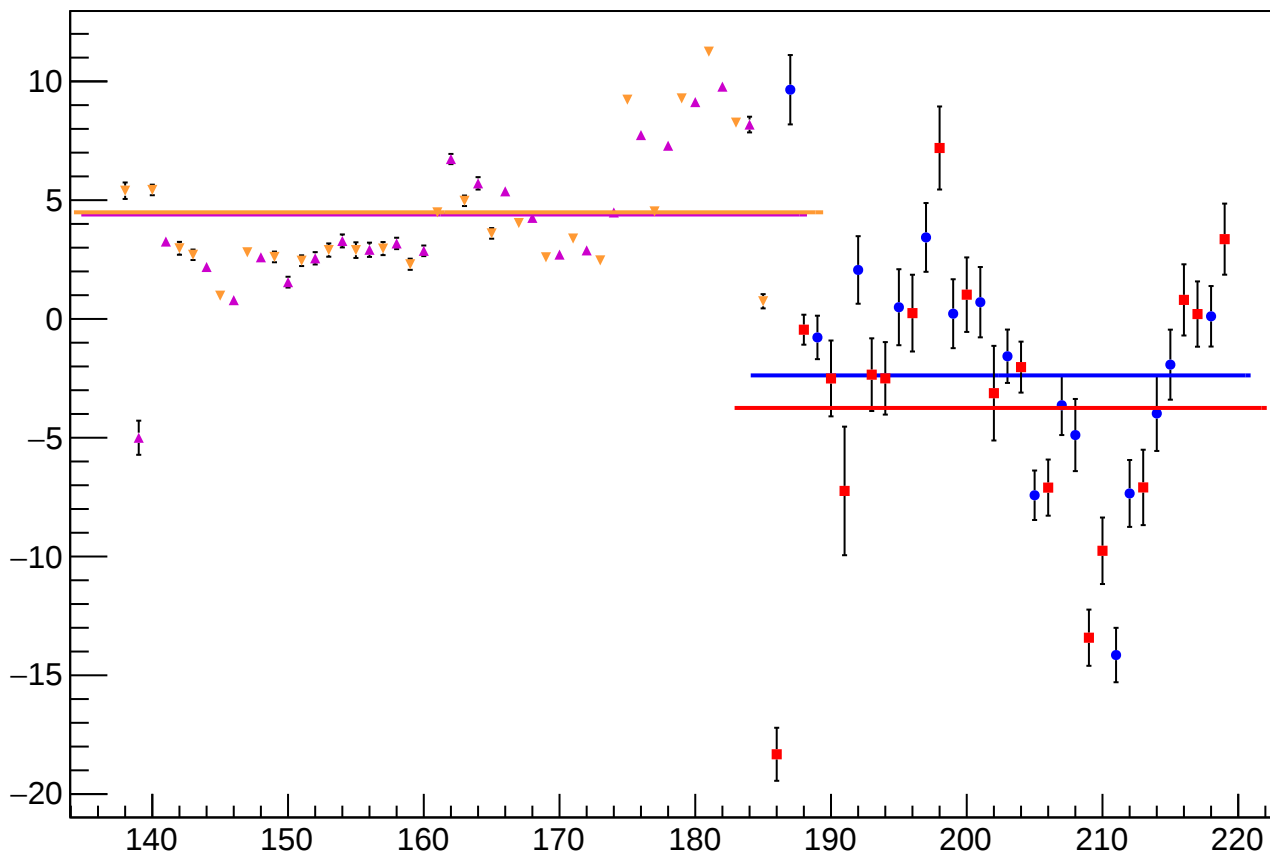
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.004 ± 0.212 $\chi^2/\text{NDF}: 1737.2/15$
 Left Out: -10.017 ± 0.051 $\chi^2/\text{NDF}: 12552.8/24$
 Right Out: -0.684 ± 0.205 $\chi^2/\text{NDF}: 8936.9/17$
 Left In: -9.865 ± 0.051 $\chi^2/\text{NDF}: 9345.4/22$

Left: -9.942 ± 0.036 $\chi^2/\text{NDF}: 21902.5/47$
 Right: -3.247 ± 0.147 $\chi^2/\text{NDF}: 10999.7/33$
 In: -9.652 ± 0.050 $\chi^2/\text{NDF}: 11395.2/38$
 Out: -9.478 ± 0.049 $\chi^2/\text{NDF}: 23449.6/42$
 All: -9.563 ± 0.035 $\chi^2/\text{NDF}: 34850.9/81$

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.376 ± 0.325 χ^2/NDF : 258.3/15

Left Out: 4.489 ± 0.041 χ^2/NDF : 4832.3/24

Right Out: -3.746 ± 0.306 χ^2/NDF : 396.7/17

Left In: 4.396 ± 0.041 χ^2/NDF : 4230.4/22

Left: 4.443 ± 0.029 χ^2/NDF : 9065.3/47

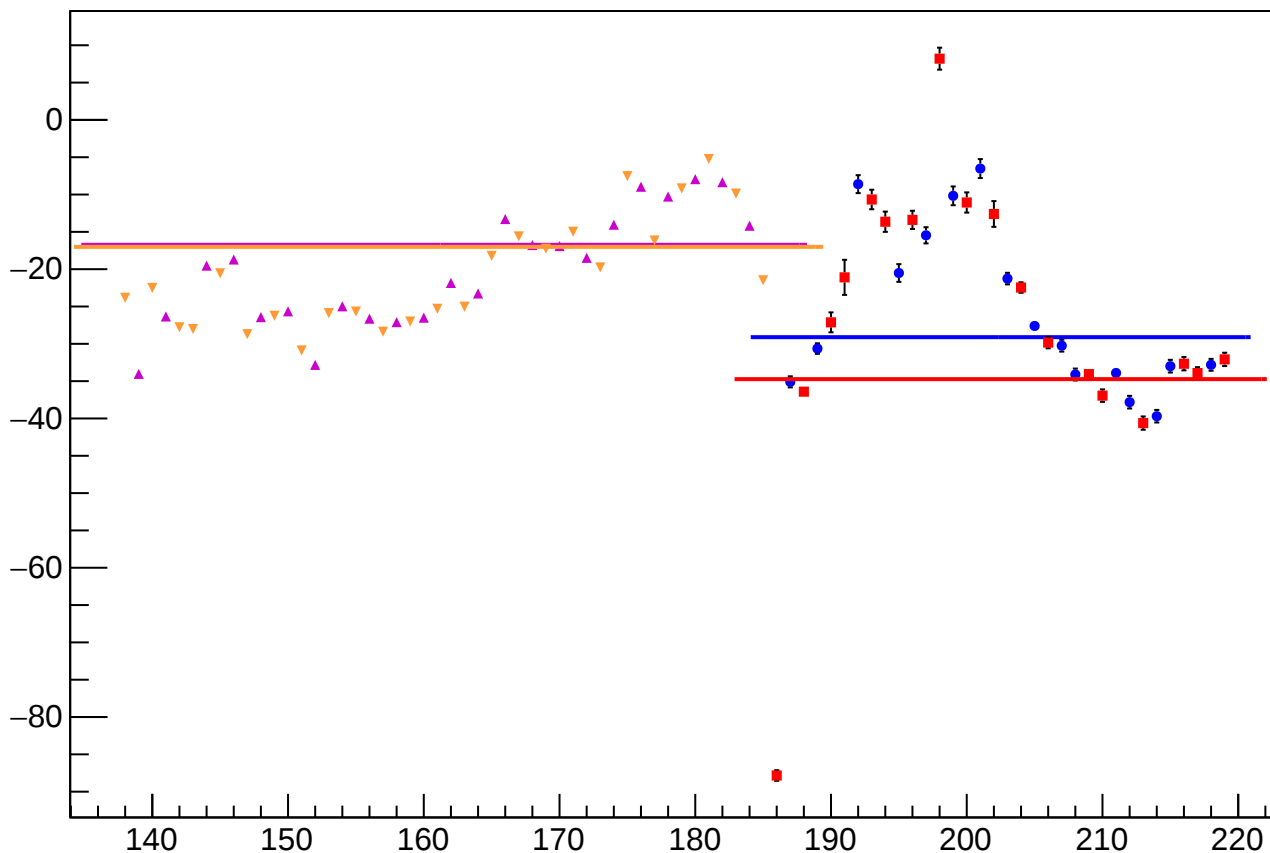
Right: -3.103 ± 0.223 χ^2/NDF : 664.4/33

In: 4.288 ± 0.041 χ^2/NDF : 4916.9/38

Out: 4.345 ± 0.040 χ^2/NDF : 5942.0/42

All: 4.317 ± 0.029 χ^2/NDF : 10859.9/81

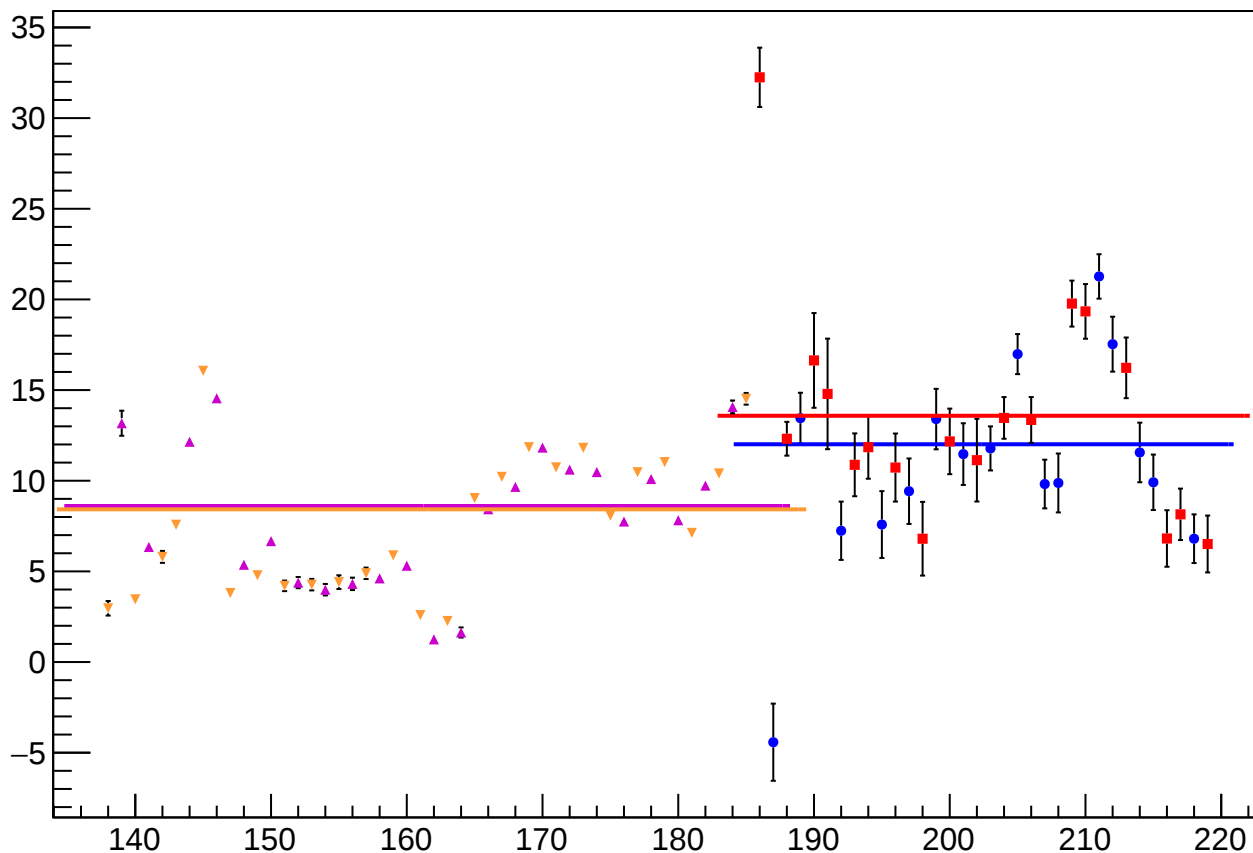
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -29.107 ± 0.209 $\chi^2/\text{NDF}: 1628.3/15$
 Left Out: -17.008 ± 0.051 $\chi^2/\text{NDF}: 22094.7/24$
 Right Out: -34.729 ± 0.194 $\chi^2/\text{NDF}: 8284.3/17$
 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: -32.133 ± 0.142 $\chi^2/\text{NDF}: 10300.2/33$
 In: -17.438 ± 0.050 $\chi^2/\text{NDF}: 23696.9/38$
 Out: -18.156 ± 0.049 $\chi^2/\text{NDF}: 38179.7/42$
 All: -17.802 ± 0.035 $\chi^2/\text{NDF}: 61981.0/81$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.011 $\pm$ 0.370 χ^2 /NDF: 190.2/15

Left Out: 8.422 $\pm$ 0.046 χ^2 /NDF: 6470.1/24

Right Out: 13.583 $\pm$ 0.363 χ^2 /NDF: 247.1/17

Left In: 8.606 $\pm$ 0.046 χ^2 /NDF: 5504.2/22

Left: 8.513 $\pm$ 0.032 χ^2 /NDF: 11982.4/47

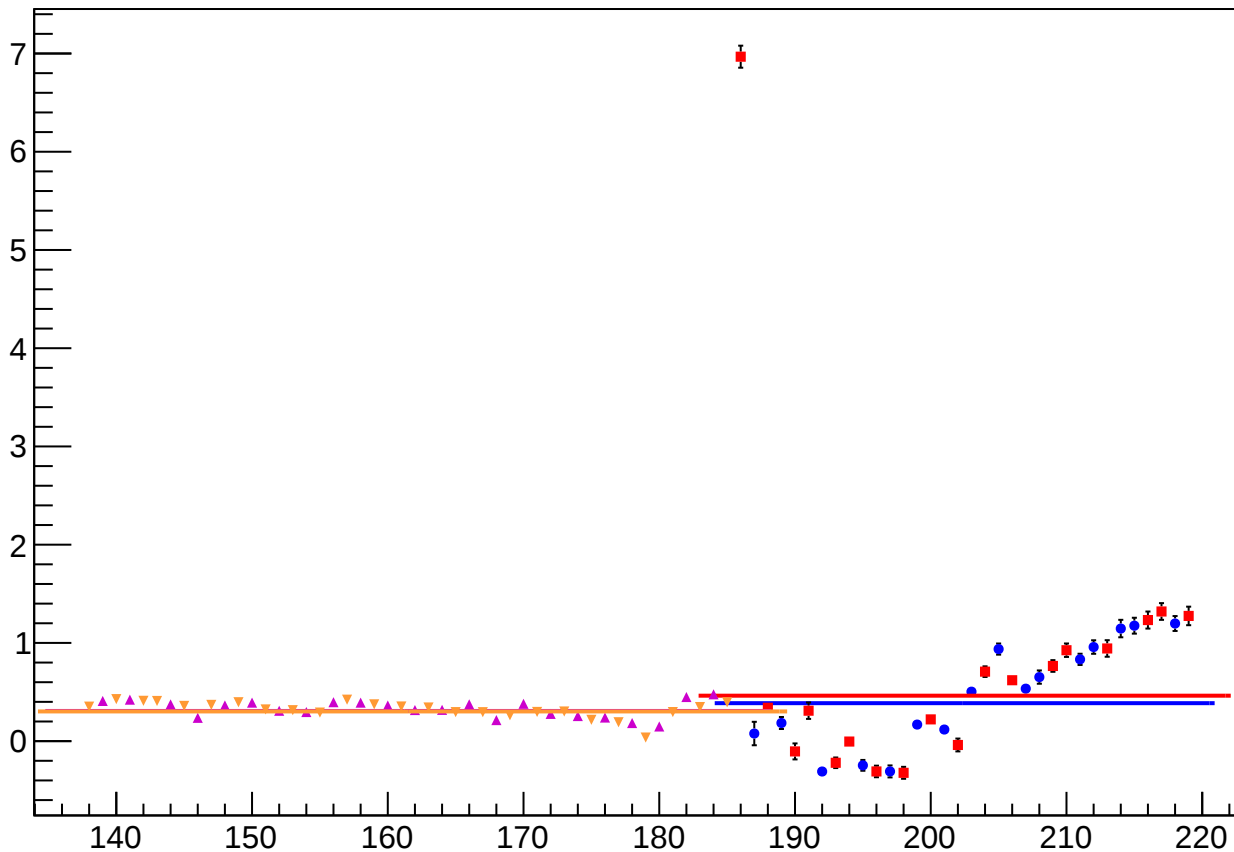
Right: 12.812 $\pm$ 0.259 χ^2 /NDF: 446.5/33

In: 8.659 $\pm$ 0.046 χ^2 /NDF: 5777.8/38

Out: 8.502 $\pm$ 0.045 χ^2 /NDF: 6916.3/42

All: 8.579 $\pm$ 0.032 χ^2 /NDF: 12700.0/81

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.387 ± 0.015 $\chi^2/\text{NDF}: 1054.4/15$

Left Out: 0.302 ± 0.002 $\chi^2/\text{NDF}: 1590.9/24$

Right Out: 0.463 ± 0.015 $\chi^2/\text{NDF}: 4476.1/17$

Left In: 0.307 ± 0.002 $\chi^2/\text{NDF}: 1699.5/22$

Left: 0.305 ± 0.001 $\chi^2/\text{NDF}: 3293.0/47$

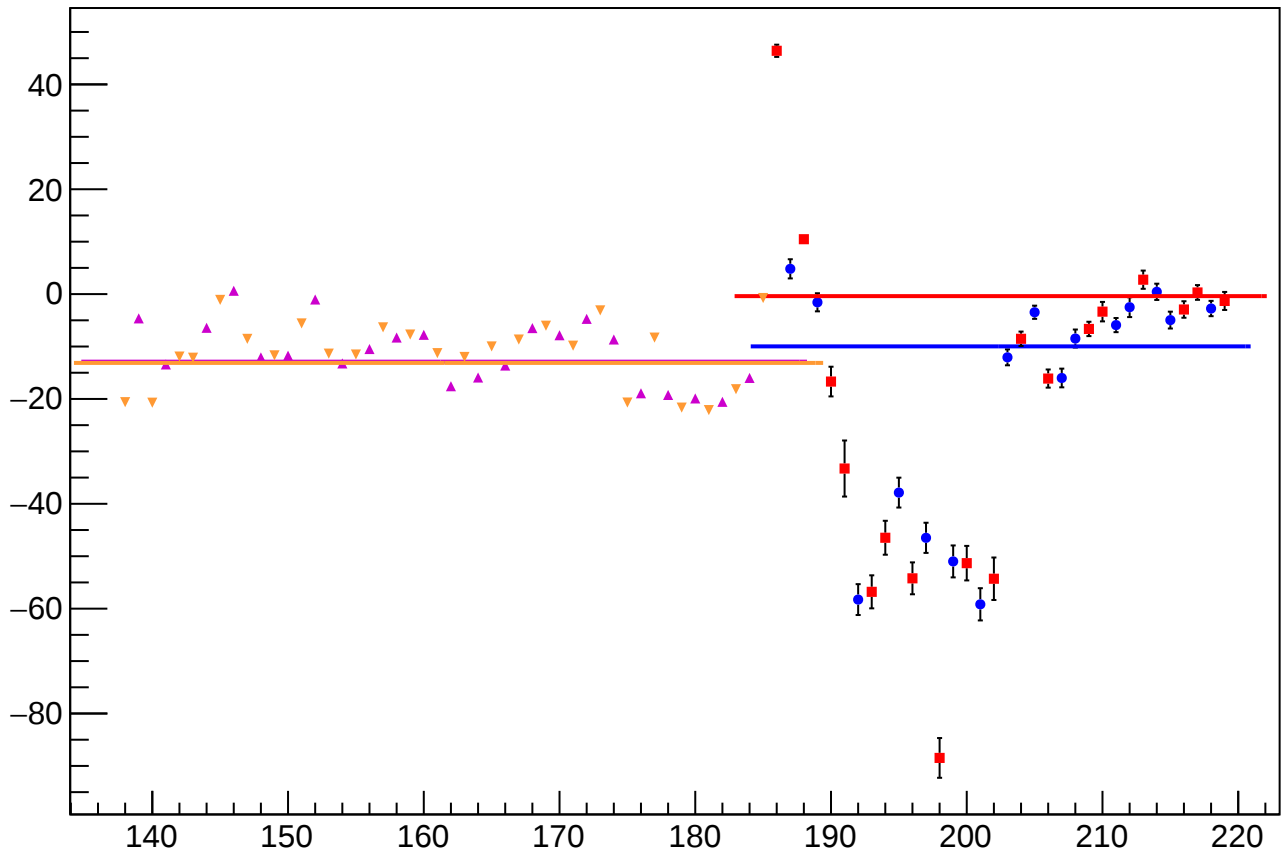
Right: 0.425 ± 0.011 $\chi^2/\text{NDF}: 5543.6/33$

In: 0.309 ± 0.002 $\chi^2/\text{NDF}: 2781.6/38$

Out: 0.306 ± 0.002 $\chi^2/\text{NDF}: 6182.4/42$

All: 0.307 ± 0.001 $\chi^2/\text{NDF}: 8965.2/81$

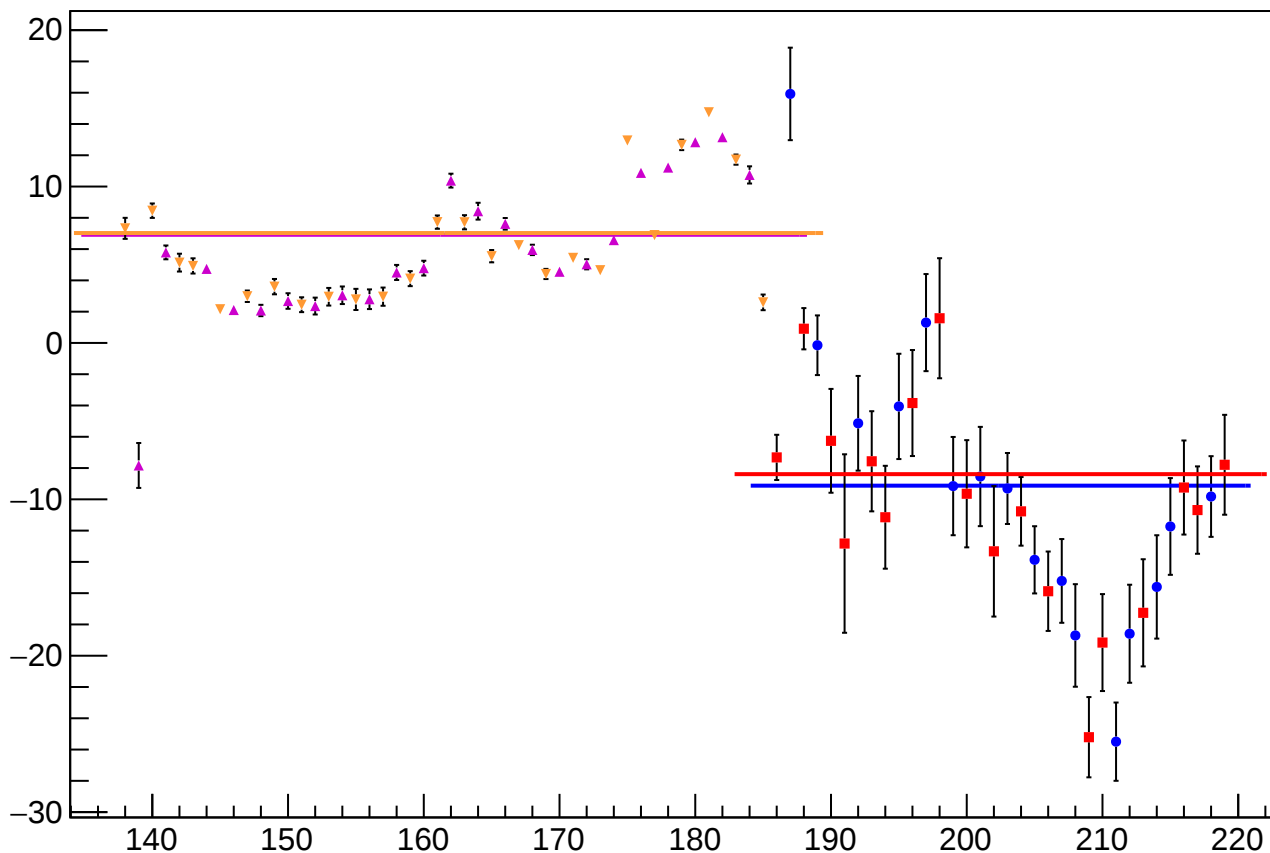
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.973 ± 0.446 $\chi^2/\text{NDF}: 1197.4/15$
 Left Out: -13.125 ± 0.094 $\chi^2/\text{NDF}: 5977.6/24$
 Right Out: -0.387 ± 0.414 $\chi^2/\text{NDF}: 3755.8/17$
 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: -4.821 ± 0.303 $\chi^2/\text{NDF}: 5201.3/33$
 In: -12.759 ± 0.093 $\chi^2/\text{NDF}: 6014.4/38$
 Out: -12.504 ± 0.091 $\chi^2/\text{NDF}: 10634.6/42$
 All: -12.629 ± 0.065 $\chi^2/\text{NDF}: 16652.7/81$

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -9.126 ± 0.683 χ^2/NDF : 184.3/15

Left Out: 7.028 ± 0.077 χ^2/NDF : 2665.3/24

Right Out: -8.390 ± 0.608 χ^2/NDF : 134.5/17

Left In: 6.914 ± 0.078 χ^2/NDF : 2428.2/22

Left: 6.971 ± 0.055 χ^2/NDF : 5094.6/47

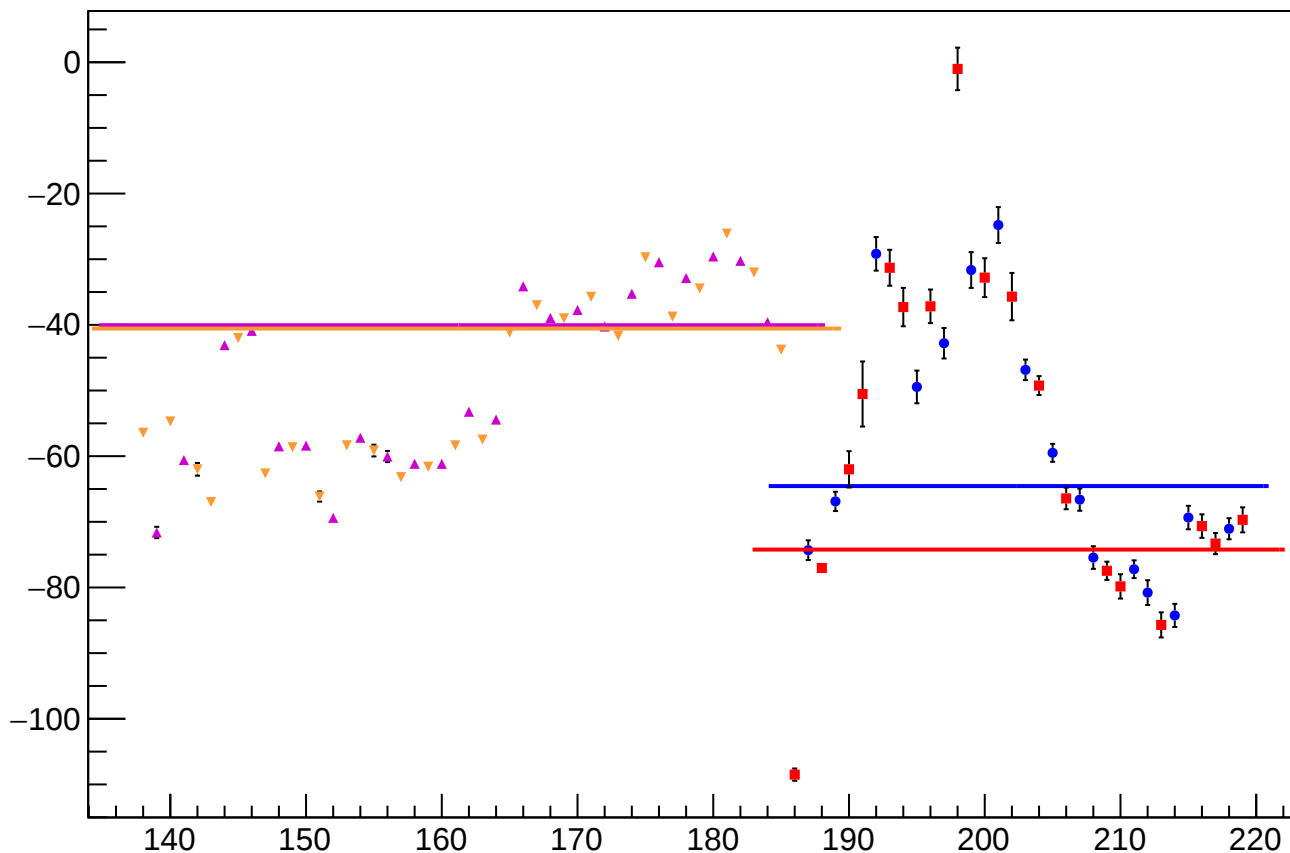
Right: -8.715 ± 0.454 χ^2/NDF : 319.5/33

In: 6.709 ± 0.077 χ^2/NDF : 3156.6/38

Out: 6.783 ± 0.077 χ^2/NDF : 3432.0/42

All: 6.747 ± 0.054 χ^2/NDF : 6589.1/81

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -64.557 ± 0.441 χ^2/NDF : 1211.1/15

Left Out: -40.563 ± 0.095 χ^2/NDF : 15637.6/24

Right Out: -74.228 ± 0.387 χ^2/NDF : 3219.0/17

Left In: -40.053 ± 0.096 χ^2/NDF : 13927.3/22

Left: -40.310 ± 0.067 χ^2/NDF : 29579.2/47

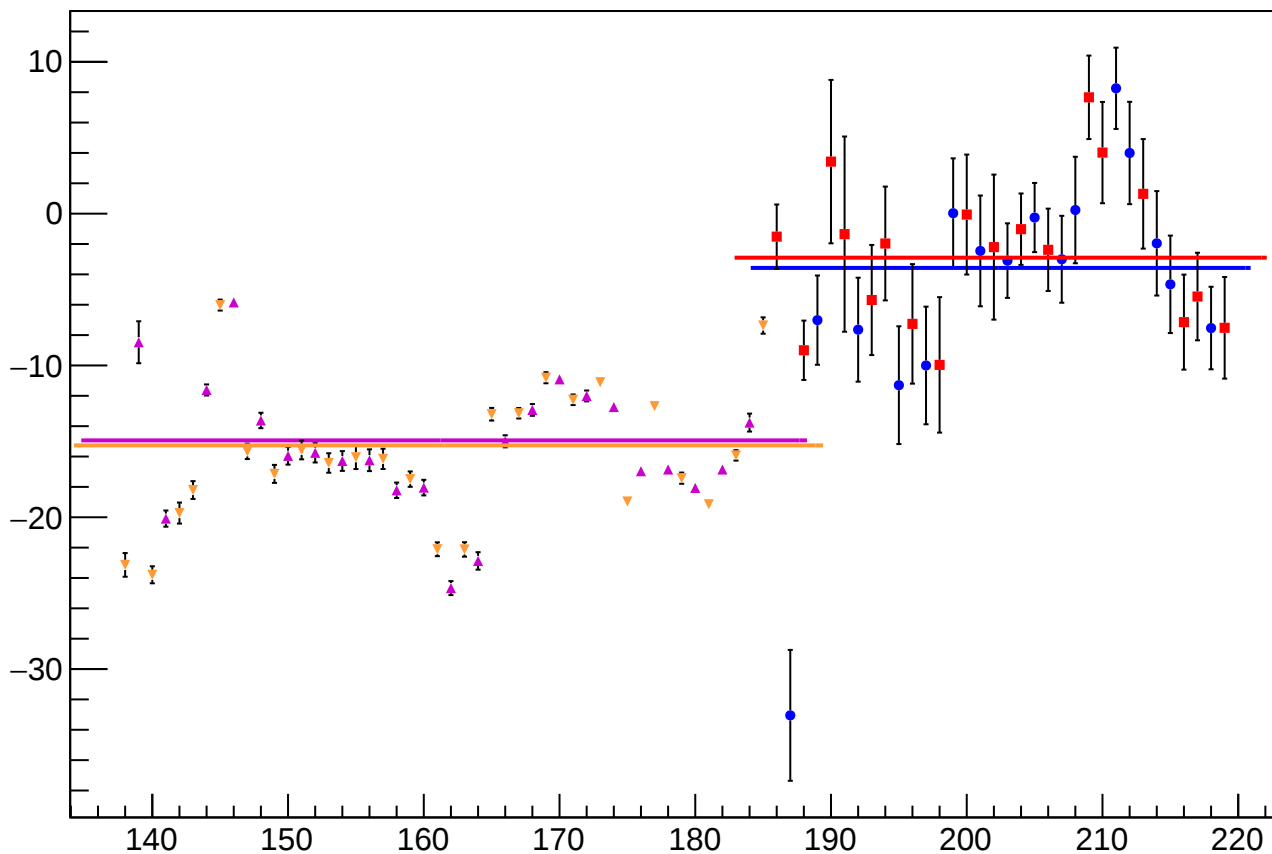
Right: -70.020 ± 0.291 χ^2/NDF : 4702.0/33

In: -41.155 ± 0.093 χ^2/NDF : 18089.6/38

Out: -42.467 ± 0.092 χ^2/NDF : 26000.5/42

All: -41.822 ± 0.066 χ^2/NDF : 44190.2/81

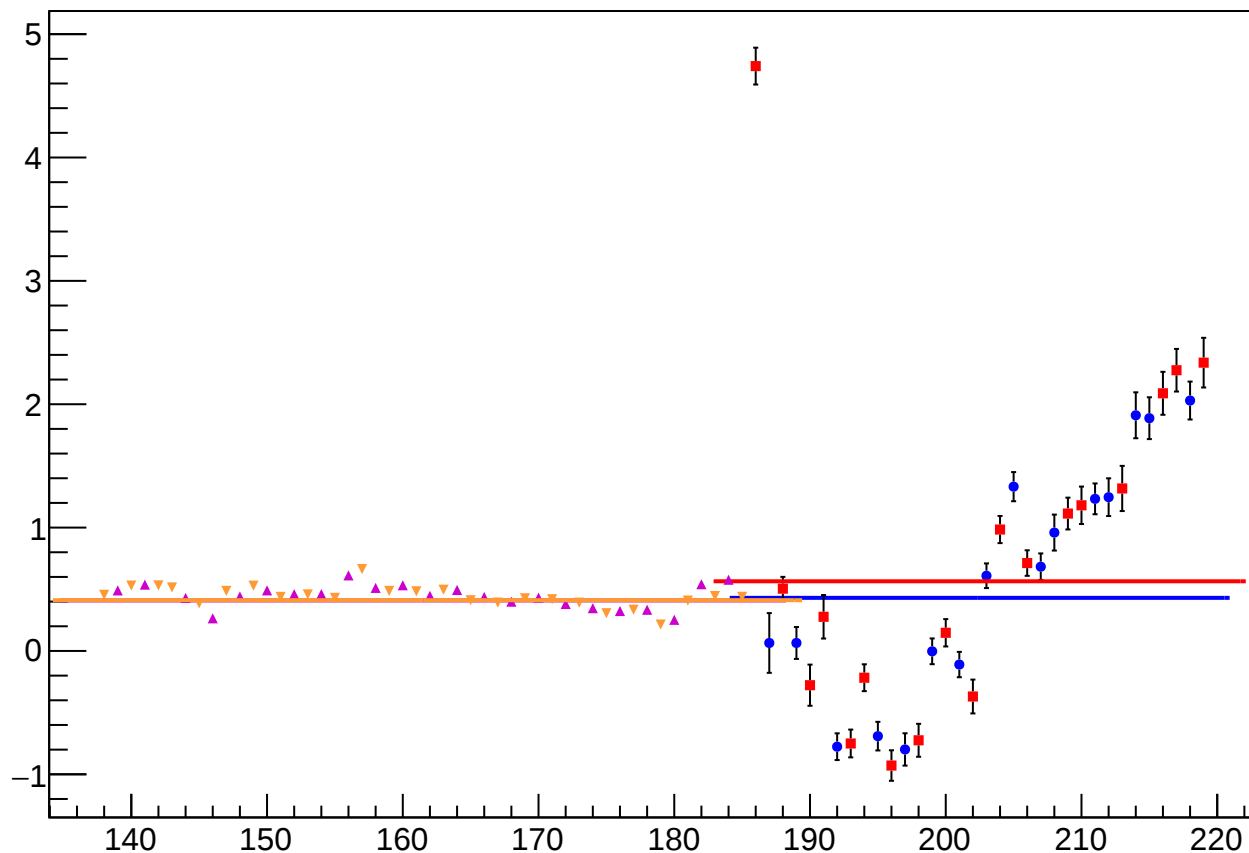
reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -3.574 ± 0.780 $\chi^2/\text{NDF}: 87.8/15$
 Left Out: -15.266 ± 0.086 $\chi^2/\text{NDF}: 2595.5/24$
 Right Out: -2.901 ± 0.737 $\chi^2/\text{NDF}: 42.2/17$
 Left In: -14.936 ± 0.087 $\chi^2/\text{NDF}: 2199.7/22$

Left: -15.103 ± 0.061 $\chi^2/\text{NDF}: 4802.4/47$
 Right: -3.219 ± 0.536 $\chi^2/\text{NDF}: 130.3/33$
 In: -14.797 ± 0.086 $\chi^2/\text{NDF}: 2497.3/38$
 Out: -15.100 ± 0.085 $\chi^2/\text{NDF}: 2915.2/42$
 All: -14.950 ± 0.061 $\chi^2/\text{NDF}: 5418.8/81$

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.430 ± 0.032 χ^2/NDF : 755.8/15

Left Out: 0.411 ± 0.004 χ^2/NDF : 428.7/24

Right Out: 0.565 ± 0.031 χ^2/NDF : 1617.7/17

Left In: 0.409 ± 0.004 χ^2/NDF : 557.8/22

Left: 0.410 ± 0.003 χ^2/NDF : 986.7/47

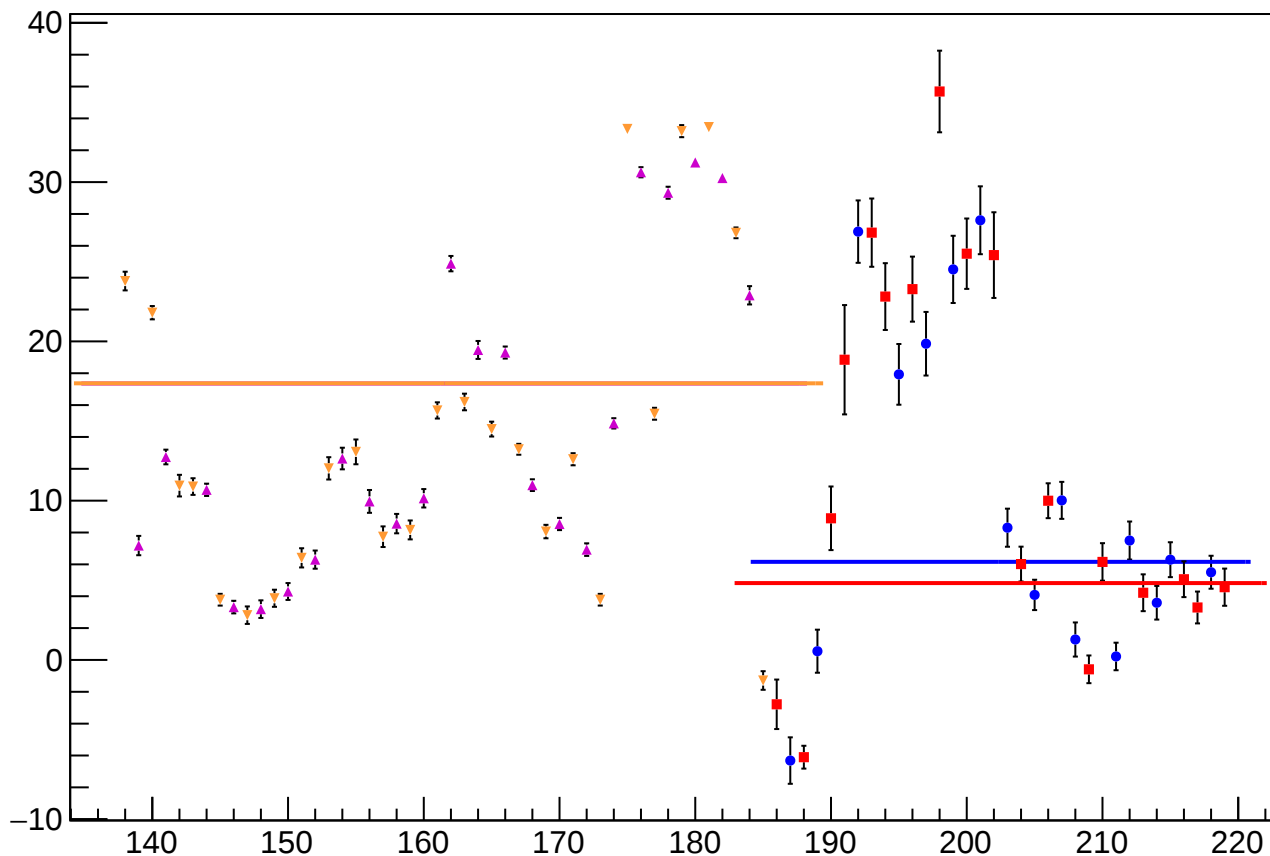
Right: 0.499 ± 0.022 χ^2/NDF : 2382.6/33

In: 0.410 ± 0.004 χ^2/NDF : 1314.1/38

Out: 0.414 ± 0.004 χ^2/NDF : 2070.4/42

All: 0.412 ± 0.003 χ^2/NDF : 3385.0/81

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 6.159 ± 0.311 $\chi^2/\text{NDF}: 559.1/15$

Left Out: 17.367 ± 0.087 $\chi^2/\text{NDF}: 16337.6/24$

Right Out: 4.826 ± 0.303 $\chi^2/\text{NDF}: 895.6/17$

Left In: 17.355 ± 0.089 $\chi^2/\text{NDF}: 12745.1/22$

Left: 17.361 ± 0.062 $\chi^2/\text{NDF}: 29082.8/47$

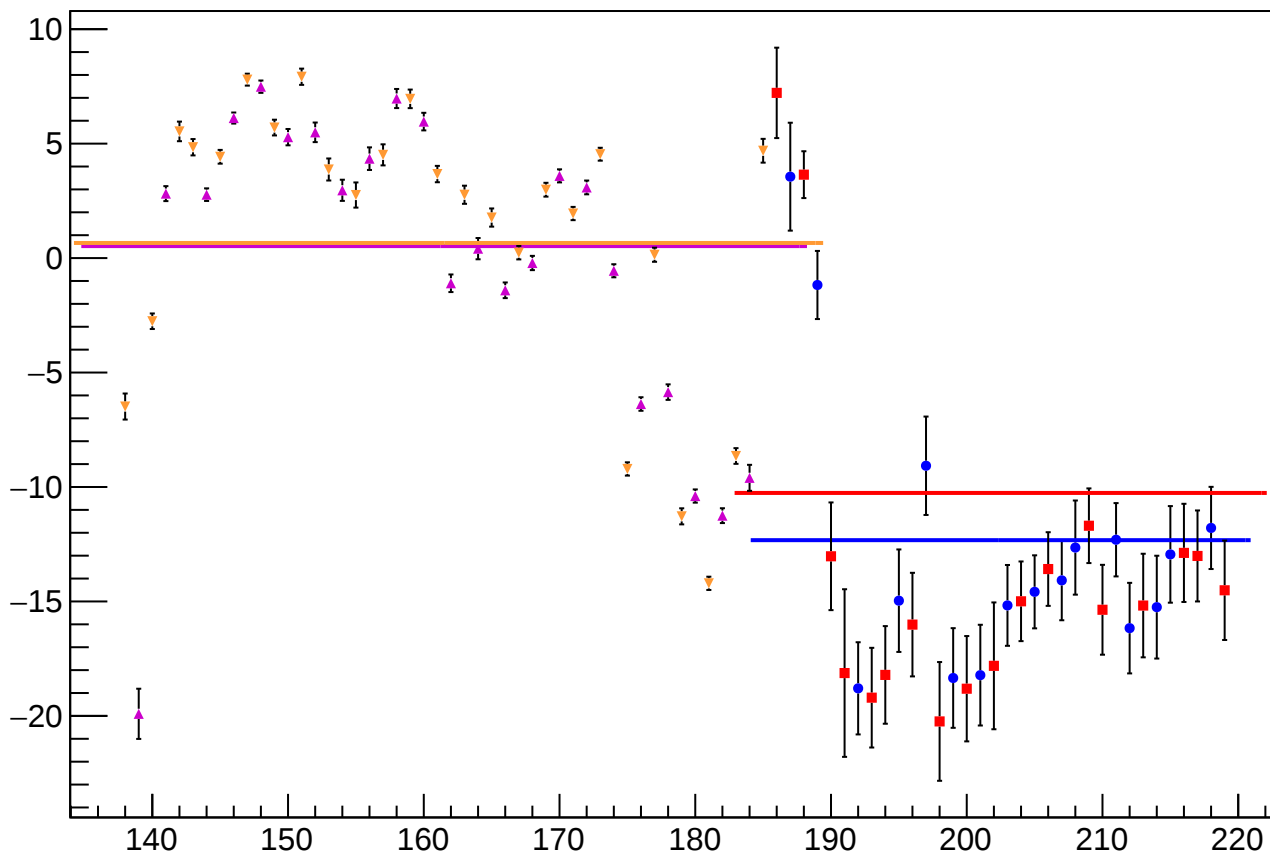
Right: 5.477 ± 0.217 $\chi^2/\text{NDF}: 1464.2/33$

In: 16.507 ± 0.085 $\chi^2/\text{NDF}: 14505.4/38$

Out: 16.412 ± 0.084 $\chi^2/\text{NDF}: 18812.3/42$

All: 16.459 ± 0.060 $\chi^2/\text{NDF}: 33318.4/81$

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.323 ± 0.478 χ^2/NDF : 141.7/15

Left Out: 0.661 ± 0.069 χ^2/NDF : 8553.9/24

Right Out: -10.260 ± 0.457 χ^2/NDF : 373.5/17

Left In: 0.524 ± 0.071 χ^2/NDF : 6729.7/22

Left: 0.594 ± 0.050 χ^2/NDF : 15285.5/47

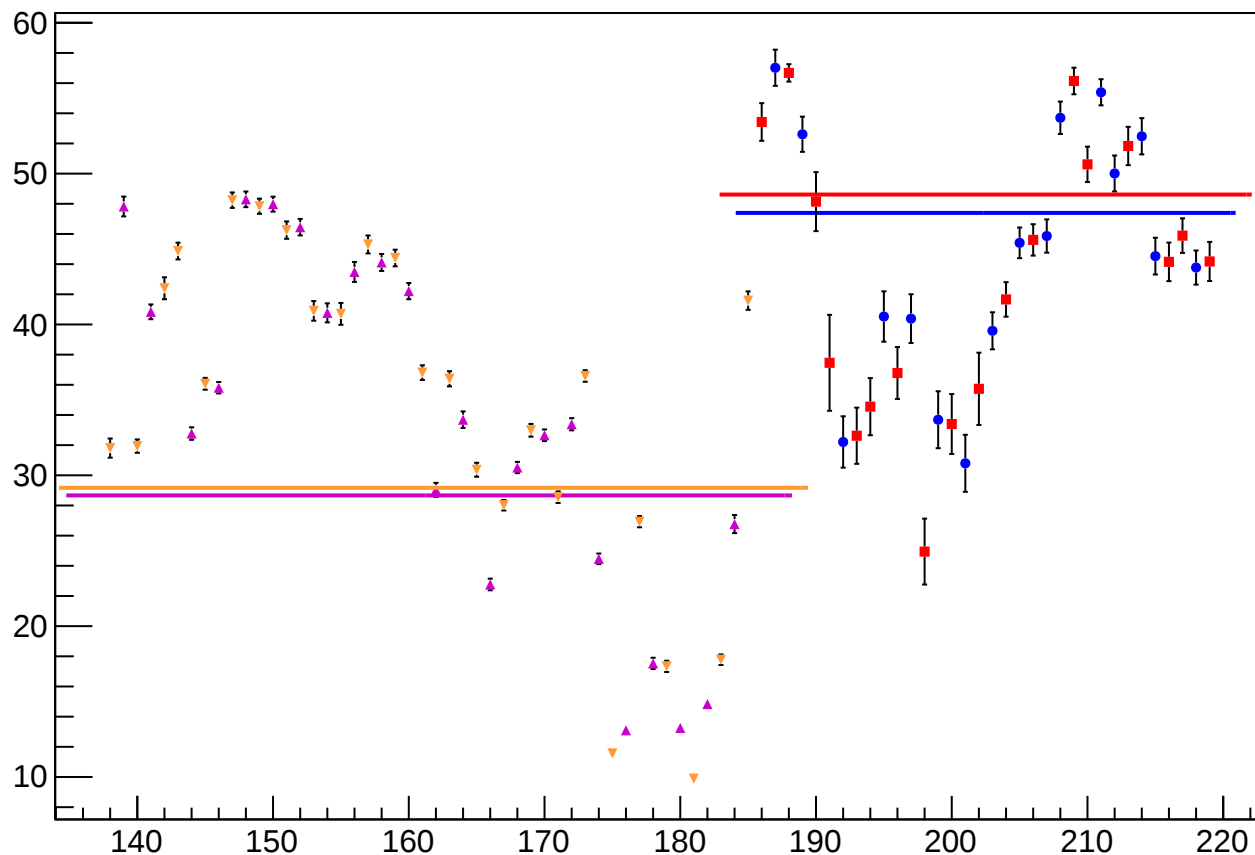
Right: -11.244 ± 0.330 χ^2/NDF : 524.9/33

In: 0.248 ± 0.070 χ^2/NDF : 7577.1/38

Out: 0.415 ± 0.069 χ^2/NDF : 9486.0/42

All: 0.333 ± 0.049 χ^2/NDF : 17065.9/81

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 47.396+/-0.307 χ^2/NDF : 533.9/15

Left Out: 29.171+/-0.088 χ^2/NDF : 18974.7/24

Right Out: 48.613+/-0.291 χ^2/NDF : 759.5/17

Left In: 28.667+/-0.089 χ^2/NDF : 16847.2/22

Left: 28.923+/-0.063 χ^2/NDF : 35838.1/47

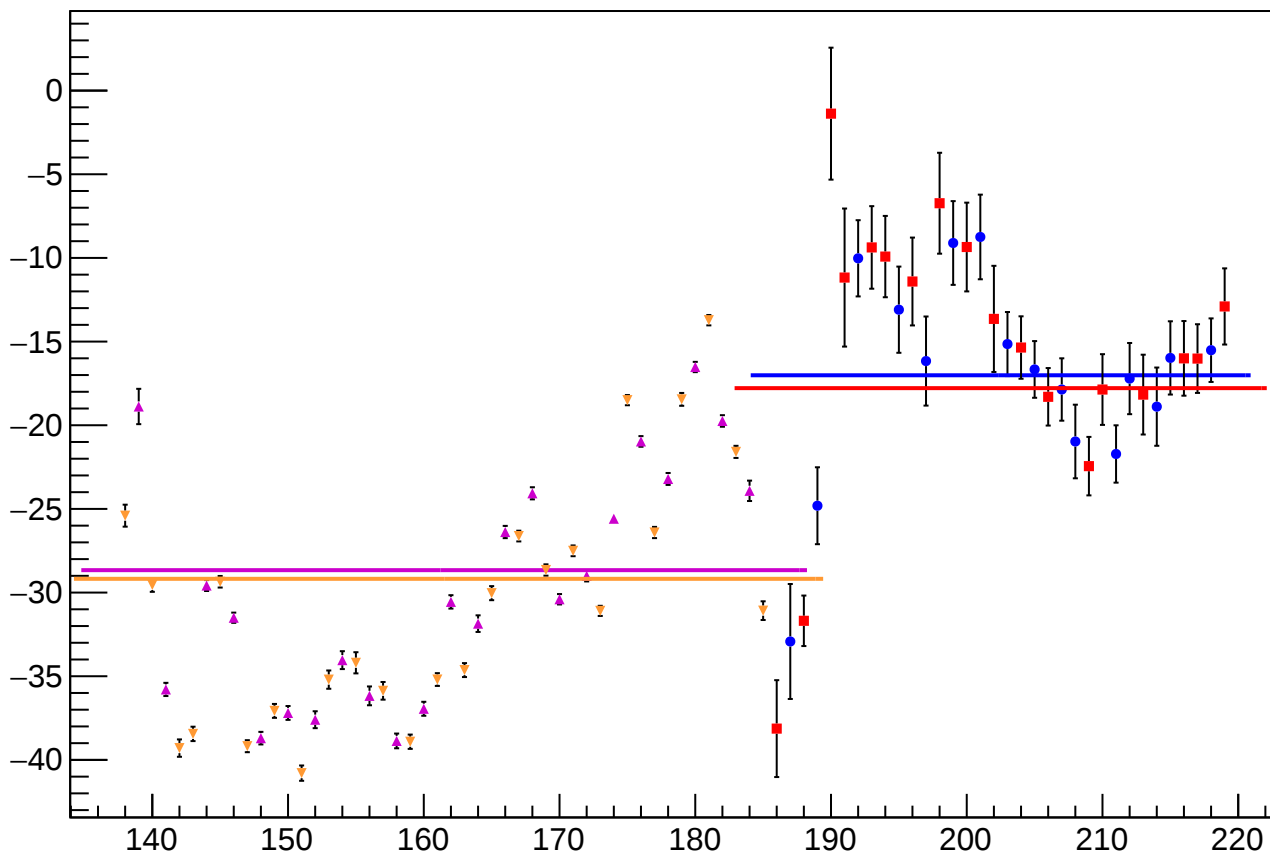
Right: 48.038+/-0.211 χ^2/NDF : 1301.7/33

In: 30.119+/-0.086 χ^2/NDF : 20803.5/38

Out: 30.794+/-0.084 χ^2/NDF : 23829.7/42

All: 30.463+/-0.060 χ^2/NDF : 44665.0/81

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -17.013 ± 0.541 $\chi^2/\text{NDF}: 78.9/15$
 Left Out: -29.178 ± 0.078 $\chi^2/\text{NDF}: 9081.4/24$
 Right Out: -17.783 ± 0.535 $\chi^2/\text{NDF}: 222.3/17$
 Left In: -28.660 ± 0.080 $\chi^2/\text{NDF}: 6670.1/22$

Left: -28.924 ± 0.056 $\chi^2/\text{NDF}: 15773.0/47$

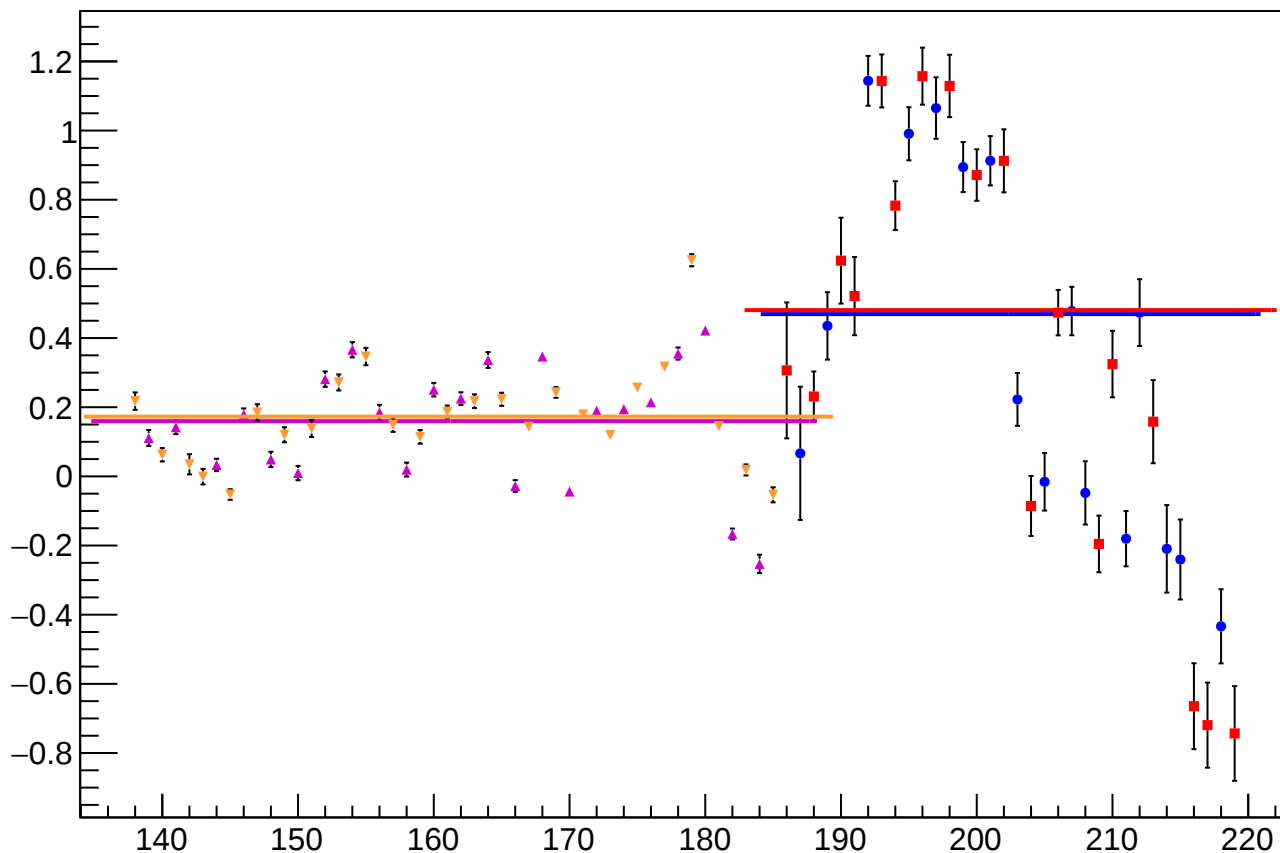
Right: -17.402 ± 0.380 $\chi^2/\text{NDF}: 302.3/33$

In: -28.412 ± 0.079 $\chi^2/\text{NDF}: 7203.2/38$

Out: -28.940 ± 0.077 $\chi^2/\text{NDF}: 9748.2/42$

All: -28.681 ± 0.055 $\chi^2/\text{NDF}: 16974.2/81$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.469 ± 0.022 χ^2/NDF : 536.1/15

Left Out: 0.173 ± 0.004 χ^2/NDF : 1478.5/24

Right Out: 0.481 ± 0.021 χ^2/NDF : 656.9/17

Left In: 0.160 ± 0.004 χ^2/NDF : 2057.9/22

Left: 0.166 ± 0.003 χ^2/NDF : 3542.9/47

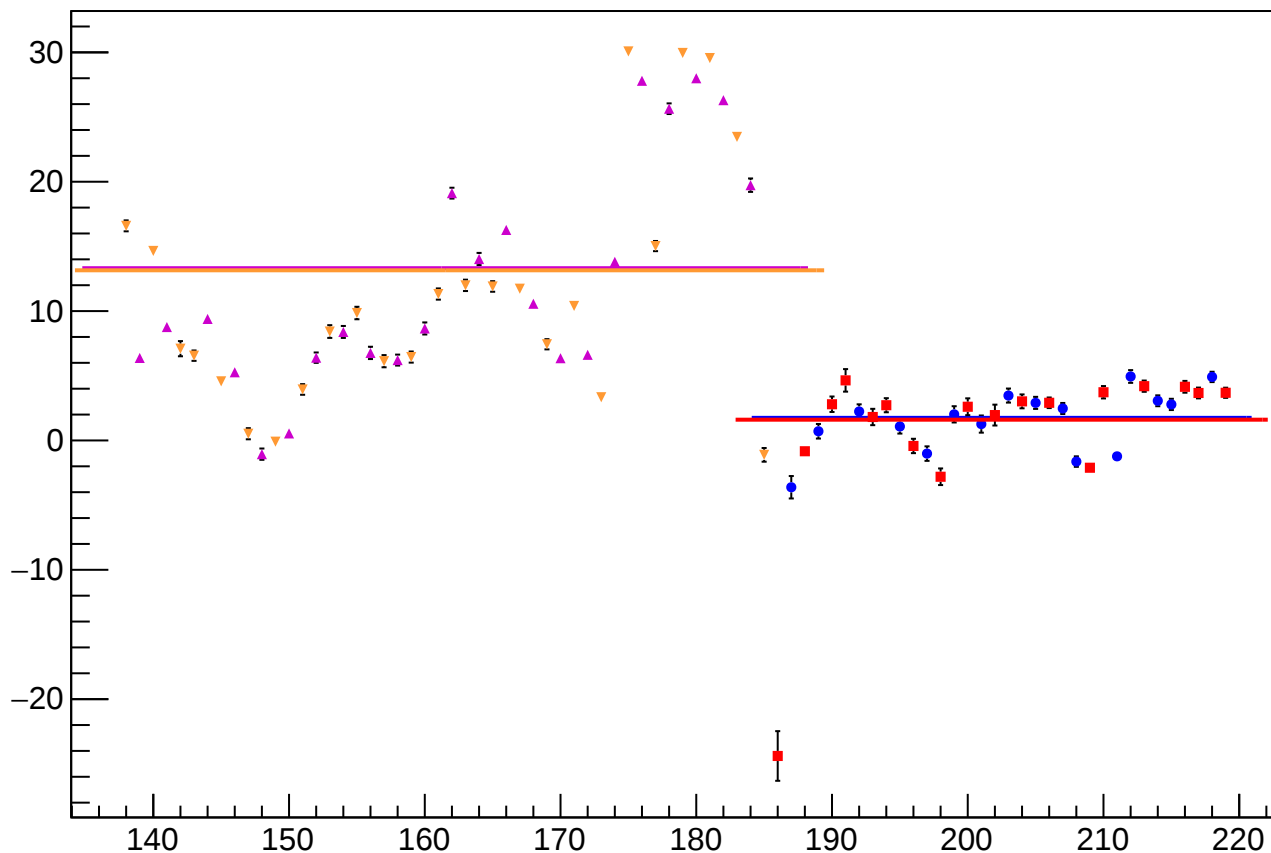
Right: 0.475 ± 0.015 χ^2/NDF : 1193.2/33

In: 0.168 ± 0.004 χ^2/NDF : 2793.0/38

Out: 0.181 ± 0.004 χ^2/NDF : 2336.2/42

All: 0.175 ± 0.003 χ^2/NDF : 5135.8/81

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.747 ± 0.122 χ^2/NDF : 338.1/15

Left Out: 13.153 ± 0.075 χ^2/NDF : 17079.7/24

Right Out: 1.605 ± 0.114 χ^2/NDF : 618.7/17

Left In: 13.315 ± 0.077 χ^2/NDF : 13977.7/22

Left: 13.232 ± 0.054 χ^2/NDF : 31059.6/47

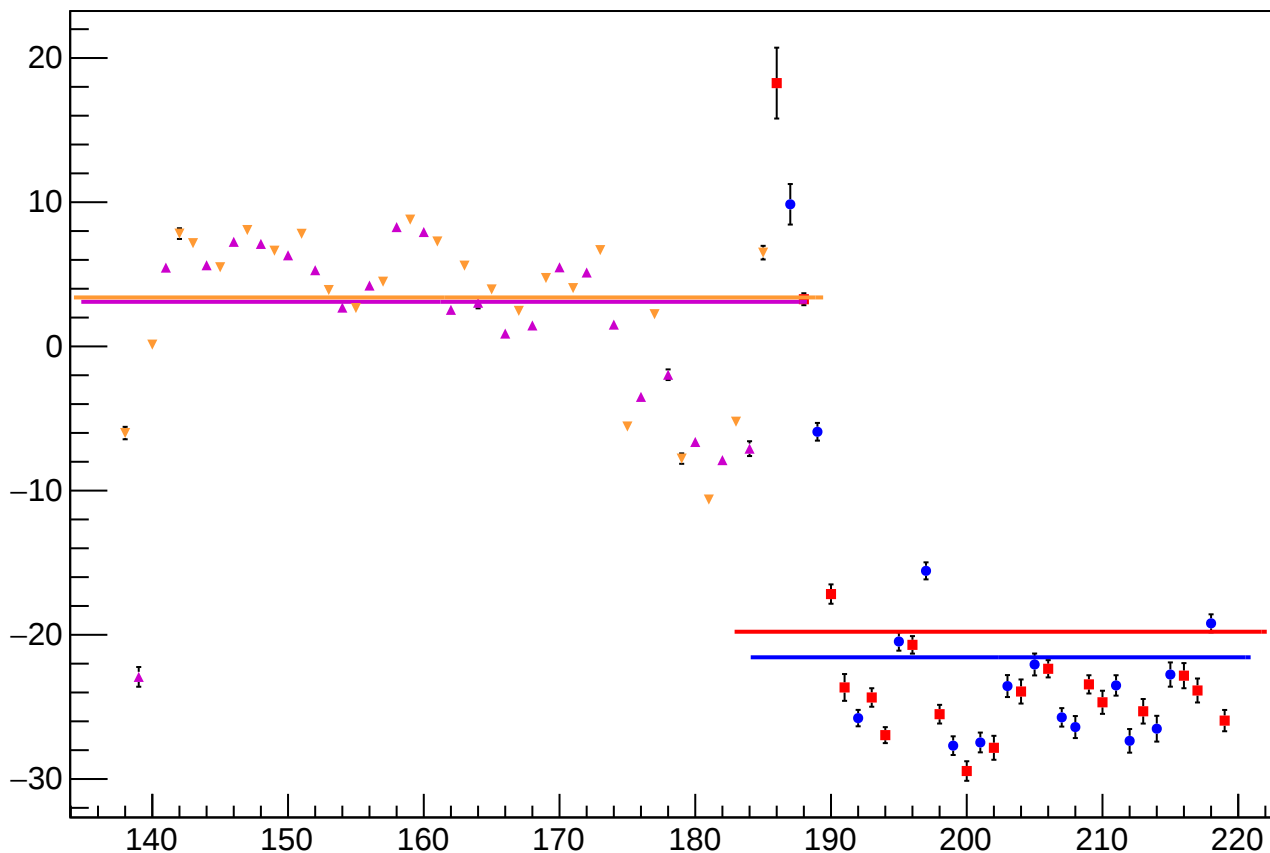
Right: 1.671 ± 0.083 χ^2/NDF : 957.5/33

In: 10.030 ± 0.065 χ^2/NDF : 20708.2/38

Out: 9.640 ± 0.063 χ^2/NDF : 24868.5/42

All: 9.827 ± 0.045 χ^2/NDF : 45595.2/81

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -21.560 ± 0.176 $\chi^2/\text{NDF}: 1667.1/15$

Left Out: 3.396 ± 0.058 $\chi^2/\text{NDF}: 8101.5/24$

Right Out: -19.787 ± 0.162 $\chi^2/\text{NDF}: 4224.9/17$

Left In: 3.092 ± 0.061 $\chi^2/\text{NDF}: 7104.4/22$

Left: 3.250 ± 0.042 $\chi^2/\text{NDF}: 15218.9/47$

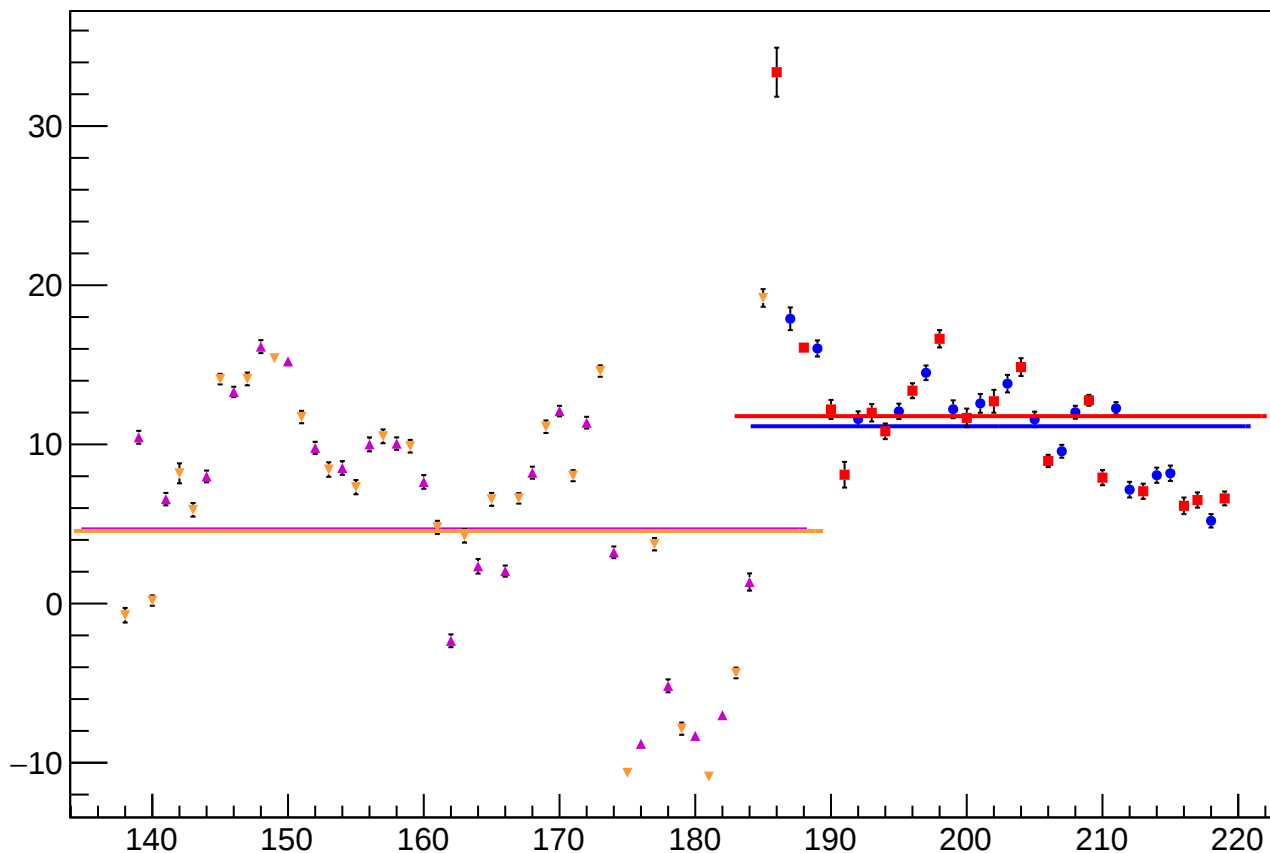
Right: -20.602 ± 0.119 $\chi^2/\text{NDF}: 5947.0/33$

In: 0.472 ± 0.057 $\chi^2/\text{NDF}: 26379.7/38$

Out: 0.735 ± 0.055 $\chi^2/\text{NDF}: 30425.0/42$

All: 0.609 ± 0.040 $\chi^2/\text{NDF}: 56815.7/81$

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 11.139 ± 0.119 χ^2/NDF : 645.3/15

Left Out: 4.561 ± 0.075 χ^2/NDF : 13592.1/24

Right Out: 11.776 ± 0.109 χ^2/NDF : 1301.8/17

Left In: 4.662 ± 0.077 χ^2/NDF : 11281.5/22

Left: 4.610 ± 0.054 χ^2/NDF : 24874.4/47

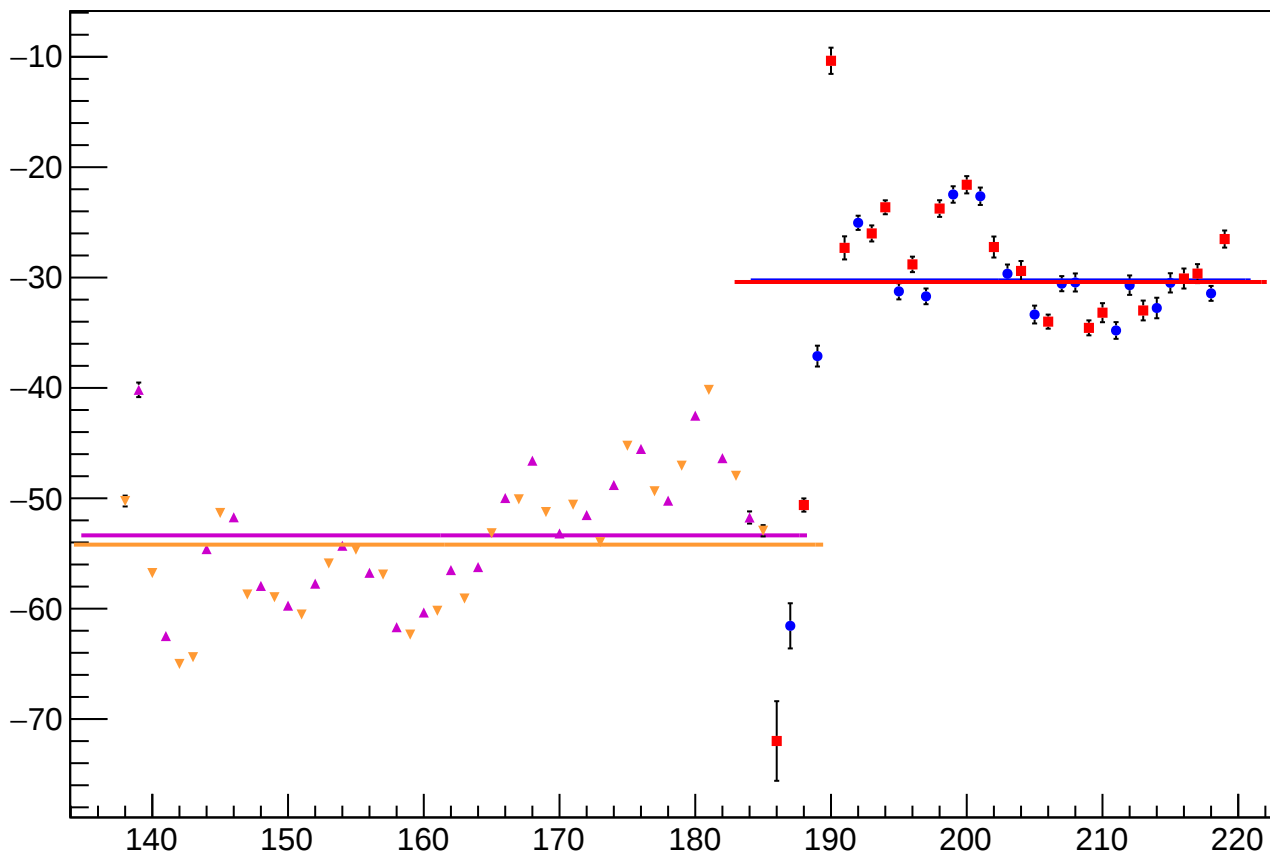
Right: 11.487 ± 0.080 χ^2/NDF : 1962.6/33

In: 6.556 ± 0.065 χ^2/NDF : 14005.9/38

Out: 6.902 ± 0.062 χ^2/NDF : 17865.9/42

All: 6.736 ± 0.045 χ^2/NDF : 31886.8/81

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.258 ± 0.199 $\chi^2/\text{NDF}: 622.8/15$

Left Out: -54.199 ± 0.066 $\chi^2/\text{NDF}: 8454.7/24$

Right Out: -30.402 ± 0.189 $\chi^2/\text{NDF}: 2052.5/17$

Left In: -53.359 ± 0.068 $\chi^2/\text{NDF}: 6882.0/22$

Left: -53.792 ± 0.048 $\chi^2/\text{NDF}: 15414.3/47$

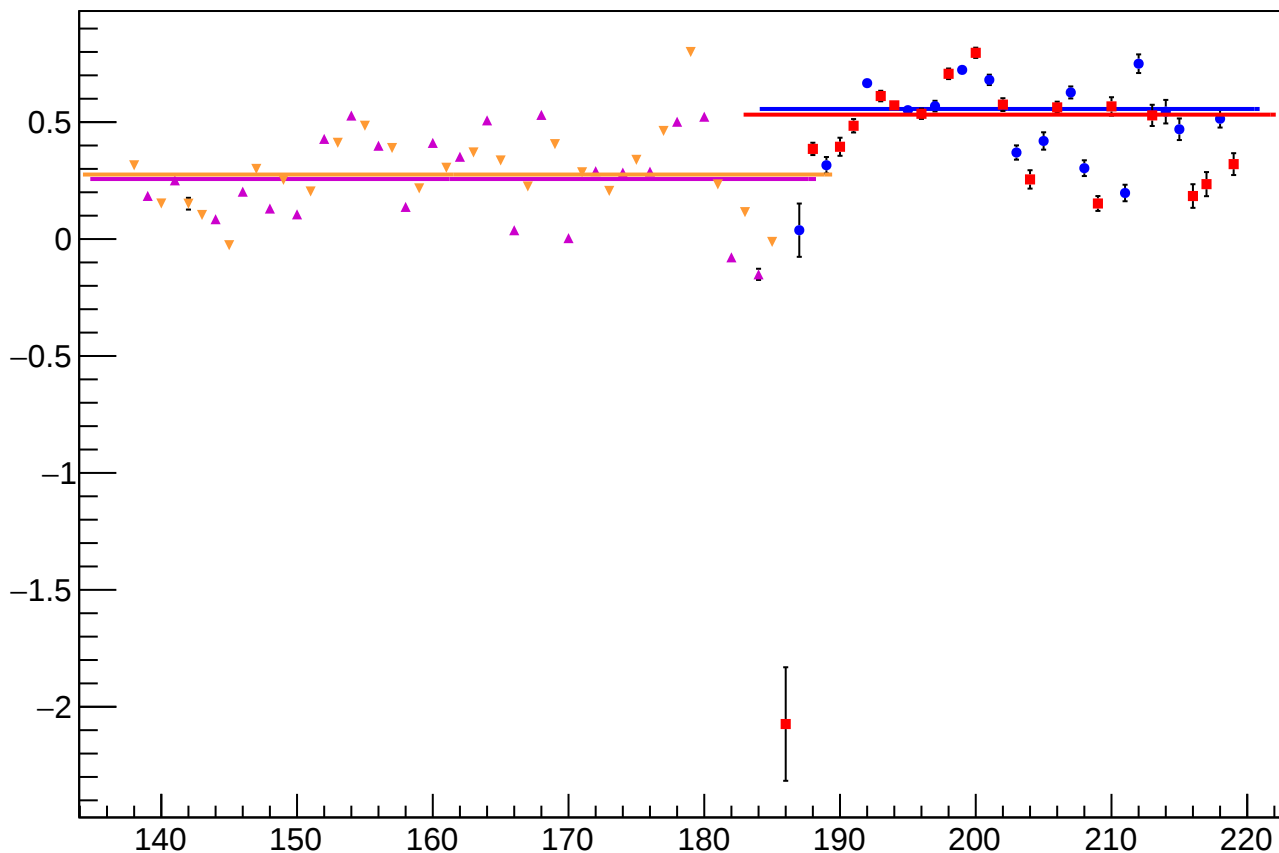
Right: -30.333 ± 0.137 $\chi^2/\text{NDF}: 2675.6/33$

In: -50.905 ± 0.065 $\chi^2/\text{NDF}: 19591.0/38$

Out: -51.576 ± 0.063 $\chi^2/\text{NDF}: 24669.2/42$

All: -51.252 ± 0.045 $\chi^2/\text{NDF}: 44315.6/81$

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.556 $\pm$ 0.007 χ^2 /NDF: 435.7/15

Left Out: 0.276 $\pm$ 0.003 χ^2 /NDF:2623.6/24

Right Out: 0.532 $\pm$ 0.007 χ^2 /NDF: 682.1/17

Left In: 0.257 $\pm$ 0.003 χ^2 /NDF:3623.9/22

Left: 0.266 $\pm$ 0.002 χ^2 /NDF: 6267.0/47

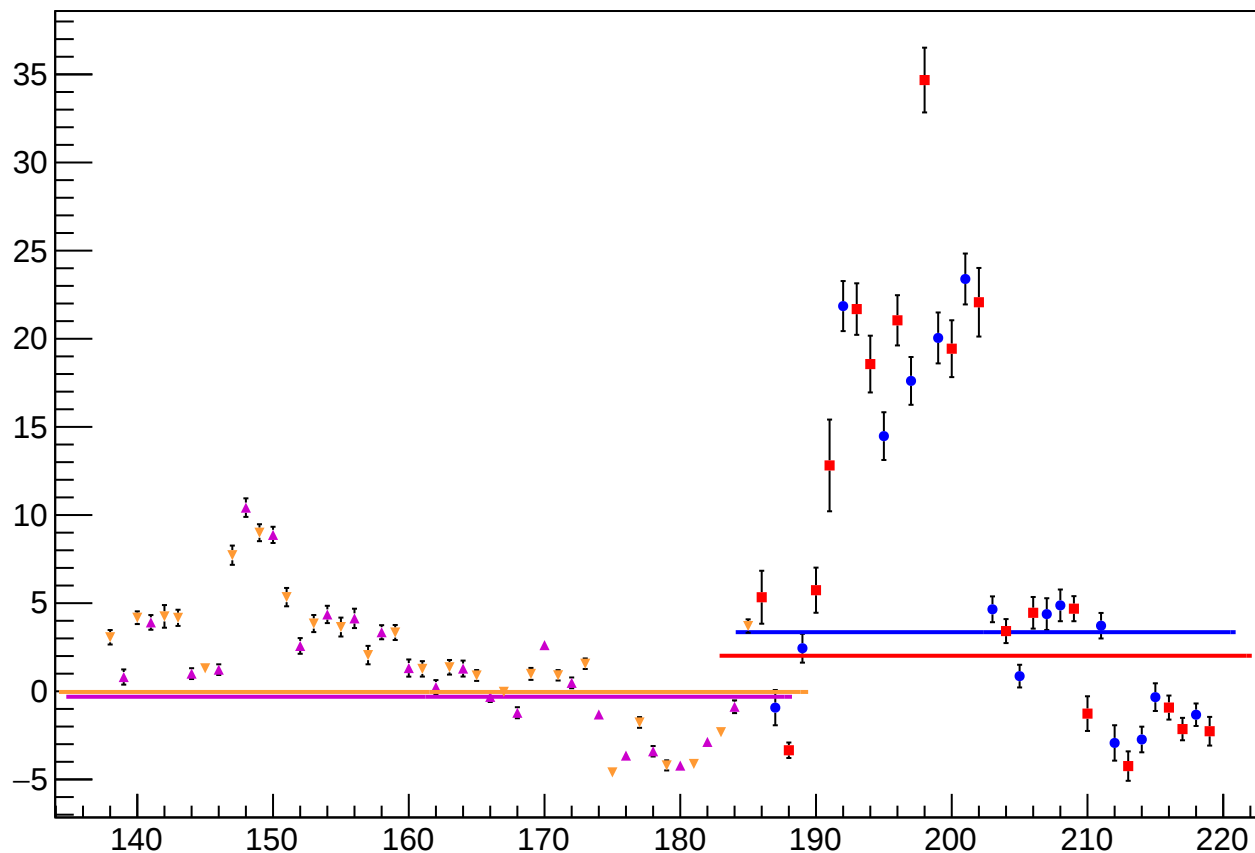
Right: 0.543 $\pm$ 0.005 χ^2 /NDF: 1123.7/33

In: 0.303 $\pm$ 0.003 χ^2 /NDF:5485.3/38

Out: 0.318 $\pm$ 0.003 χ^2 /NDF:4475.8/42

All: 0.311 $\pm$ 0.002 χ^2 /NDF: 9976.9/81

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 3.355 ± 0.220 $\chi^2/\text{NDF}: 901.0/15$

Left Out: -0.037 ± 0.066 $\chi^2/\text{NDF}: 2637.7/24$

Right Out: 2.017 ± 0.210 $\chi^2/\text{NDF}: 1365.6/17$

Left In: -0.310 ± 0.067 $\chi^2/\text{NDF}: 2250.5/22$

Left: -0.171 ± 0.047 $\chi^2/\text{NDF}: 4896.5/47$

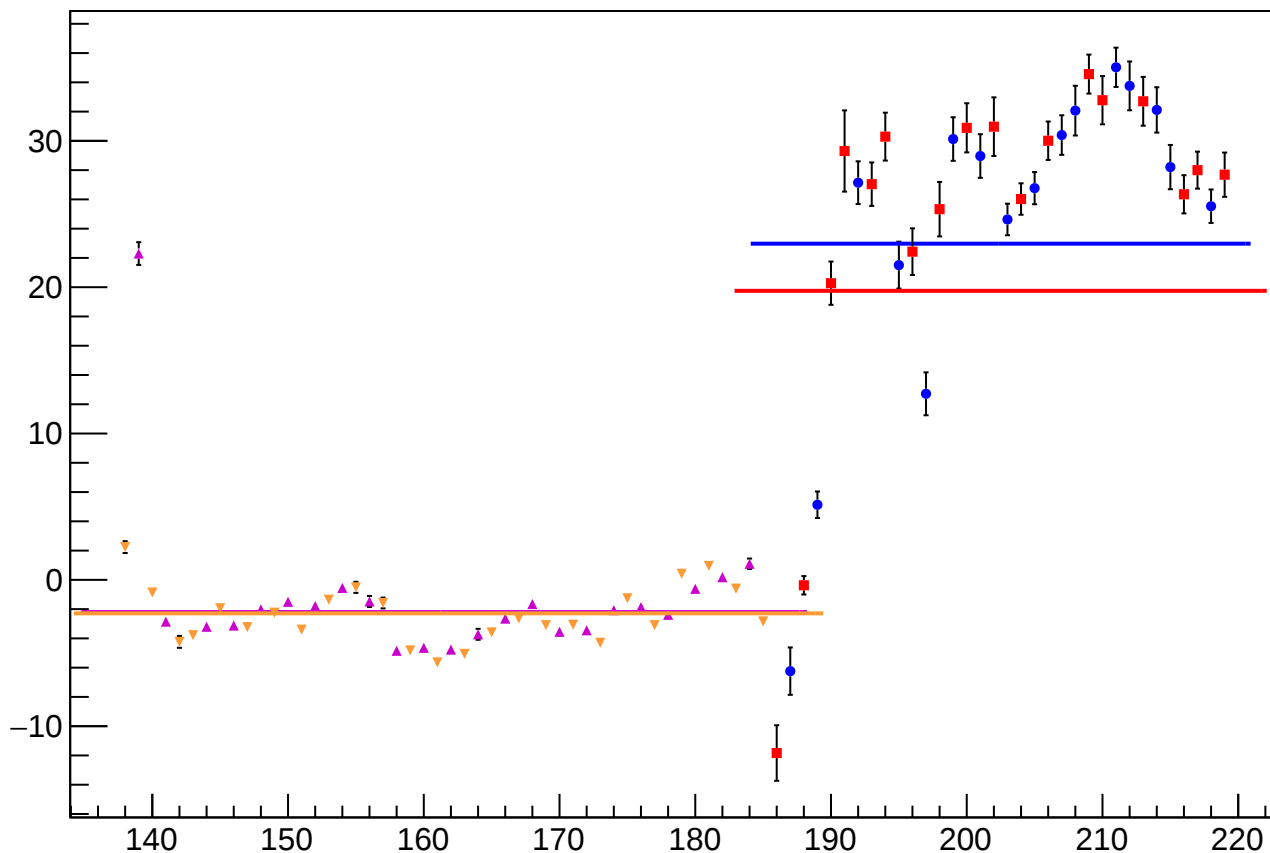
Right: 2.655 ± 0.152 $\chi^2/\text{NDF}: 2286.0/33$

In: 0.003 ± 0.064 $\chi^2/\text{NDF}: 3405.1/38$

Out: 0.147 ± 0.063 $\chi^2/\text{NDF}: 4090.3/42$

All: 0.077 ± 0.045 $\chi^2/\text{NDF}: 7498.0/81$

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 22.974 ± 0.334 $\chi^2/\text{NDF}: 1059.0/15$

Left Out: -2.288 ± 0.054 $\chi^2/\text{NDF}: 1137.7/24$

Right Out: 19.752 ± 0.318 $\chi^2/\text{NDF}: 1906.2/17$

Left In: -2.198 ± 0.055 $\chi^2/\text{NDF}: 1673.9/22$

Left: -2.244 ± 0.039 $\chi^2/\text{NDF}: 2813.0/47$

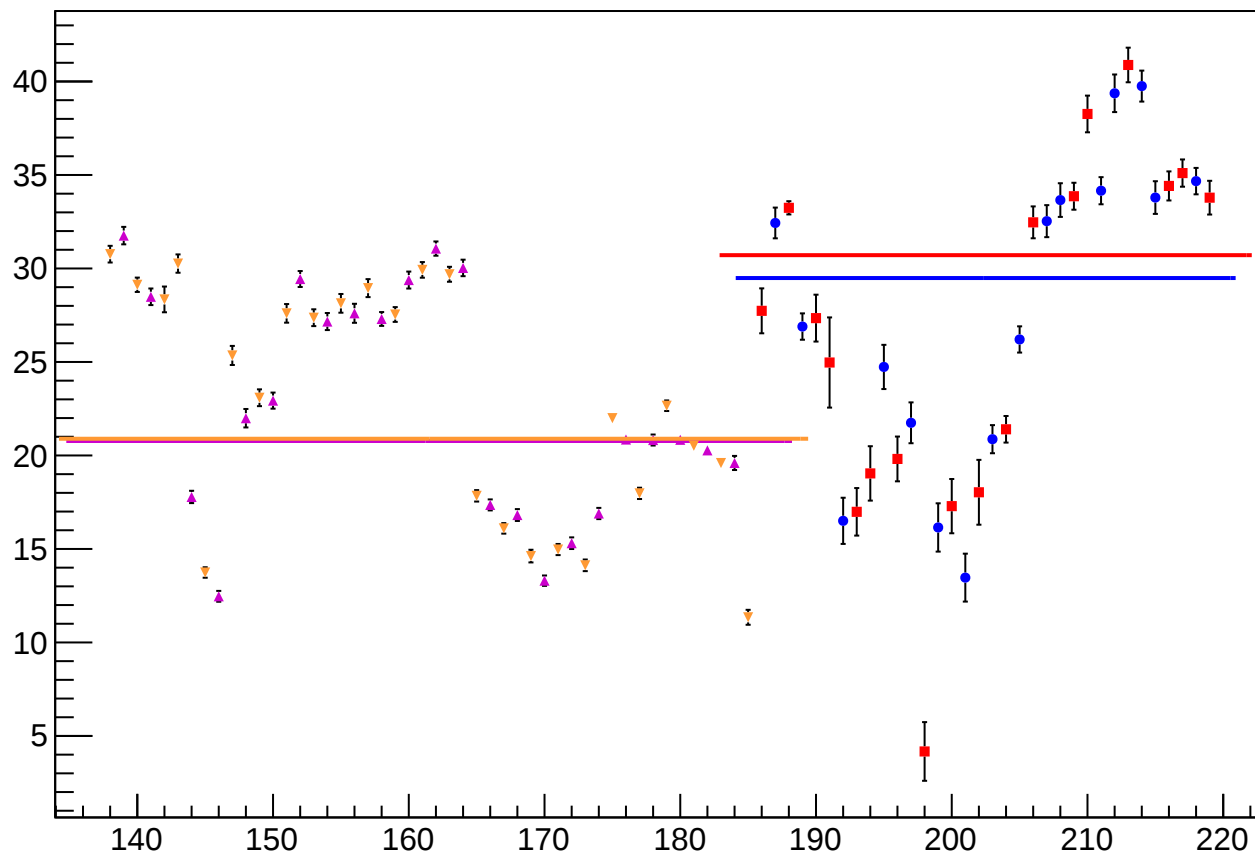
Right: 21.281 ± 0.230 $\chi^2/\text{NDF}: 3014.0/33$

In: -1.533 ± 0.054 $\chi^2/\text{NDF}: 8249.8/38$

Out: -1.666 ± 0.053 $\chi^2/\text{NDF}: 7719.1/42$

All: -1.601 ± 0.038 $\chi^2/\text{NDF}: 15972.0/81$

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.488 $\pm$ 0.218 χ^2 /NDF: 1023.6/15

Left Out: 20.894 $\pm$ 0.067 χ^2 /NDF: 6655.4/24

Right Out: 30.712 $\pm$ 0.201 χ^2 /NDF: 1204.6/17

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

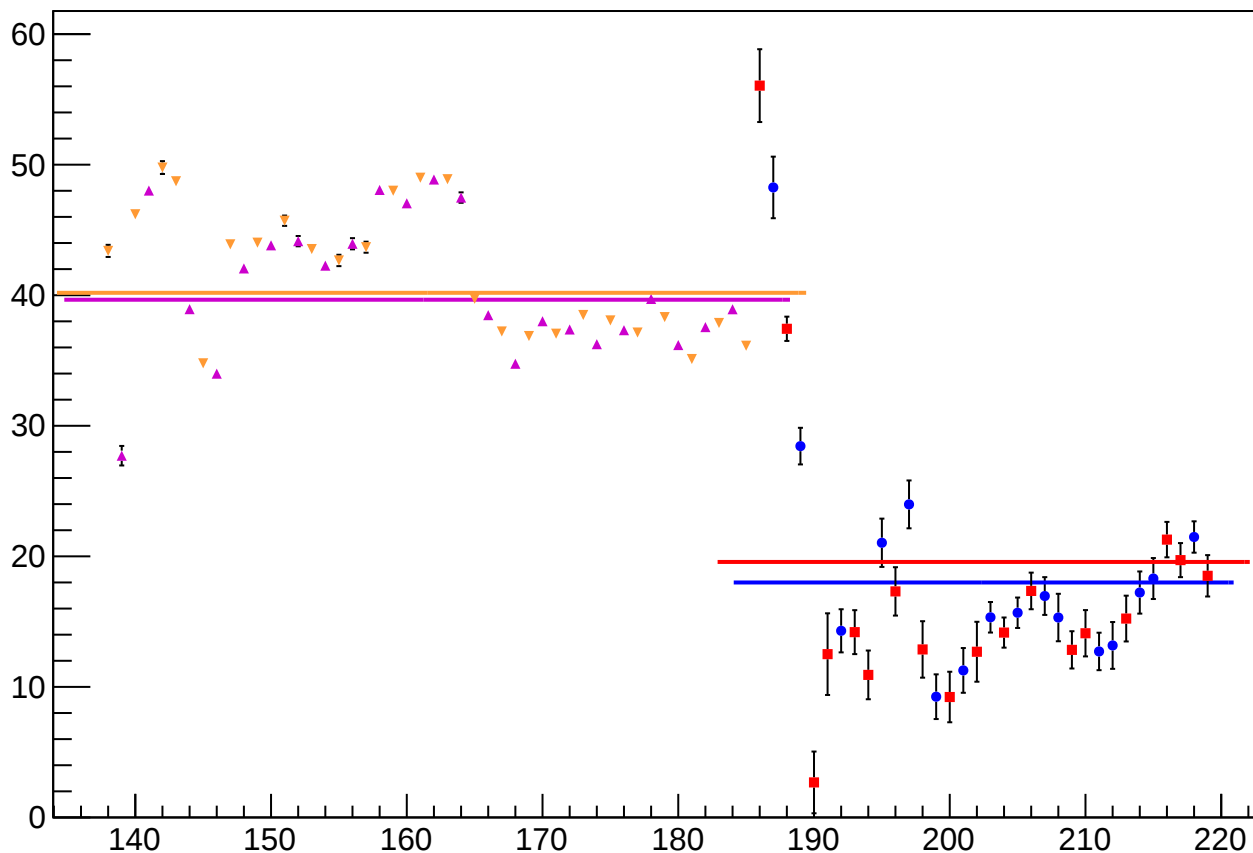
Right: 30.150 $\pm$ 0.148 χ^2 /NDF: 2245.1/33

In: 21.535 $\pm$ 0.065 χ^2 /NDF: 8404.9/38

Out: 21.868 $\pm$ 0.063 χ^2 /NDF: 10008.0/42

All: 21.704 $\pm$ 0.045 χ^2 /NDF: 18426.5/81

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 17.998 $\pm$ 0.382 χ^2 /NDF: 321.4/15

Left Out: 40.186 $\pm$ 0.060 χ^2 /NDF: 5932.7/24

Right Out: 19.571 $\pm$ 0.376 χ^2 /NDF: 740.6/17

Left In: 39.655 $\pm$ 0.061 χ^2 /NDF: 5298.6/22

Left: 39.925 $\pm$ 0.043 χ^2 /NDF: 11269.2/47

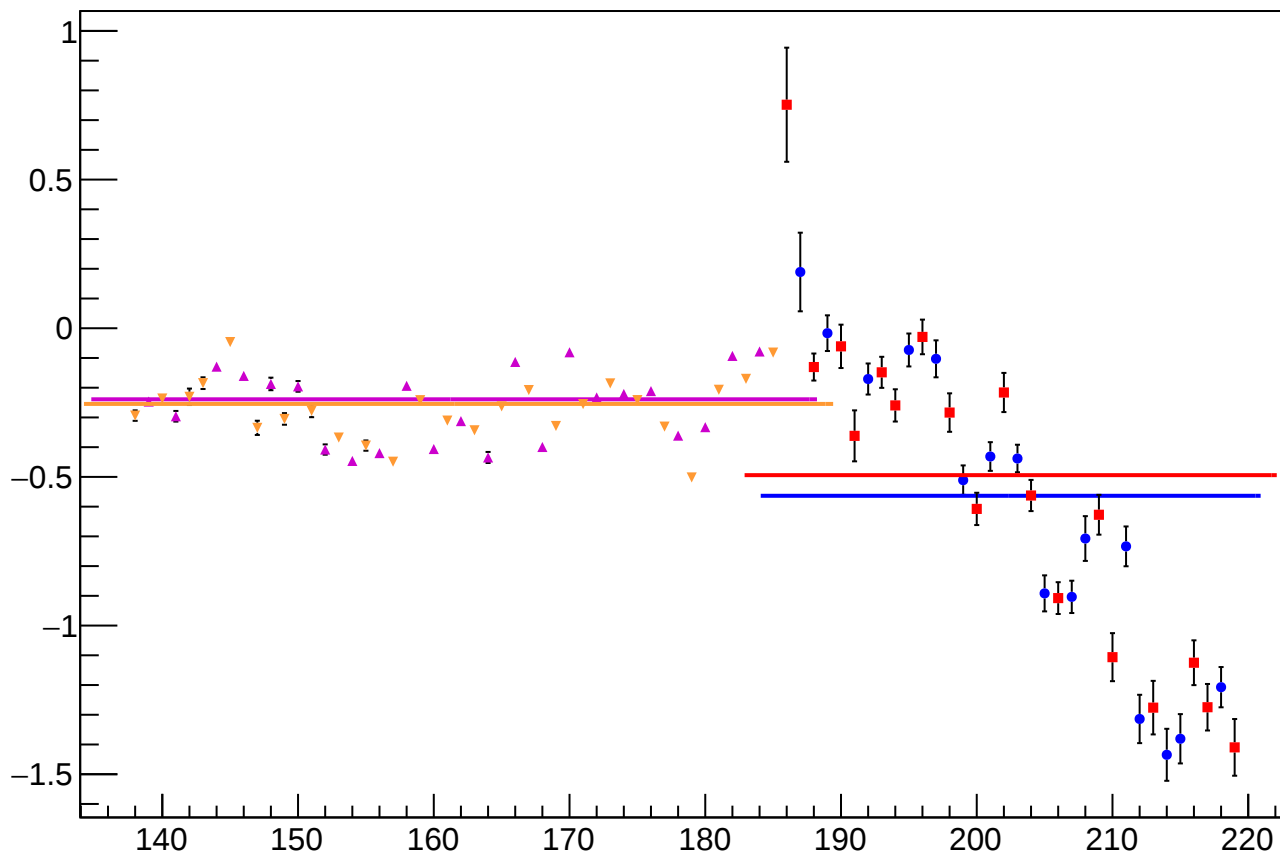
Right: 18.798 $\pm$ 0.268 χ^2 /NDF: 1070.7/33

In: 39.109 $\pm$ 0.061 χ^2 /NDF: 8753.9/38

Out: 39.666 $\pm$ 0.060 χ^2 /NDF: 9610.0/42

All: 39.392 $\pm$ 0.043 χ^2 /NDF: 18406.8/81

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.564 ± 0.015 χ^2/NDF : 771.8/15

Left Out: -0.255 ± 0.003 χ^2/NDF : 1420.4/24

Right Out: -0.494 ± 0.015 χ^2/NDF : 762.9/17

Left In: -0.239 ± 0.003 χ^2/NDF : 1750.5/22

Left: -0.247 ± 0.002 χ^2/NDF : 3186.7/47

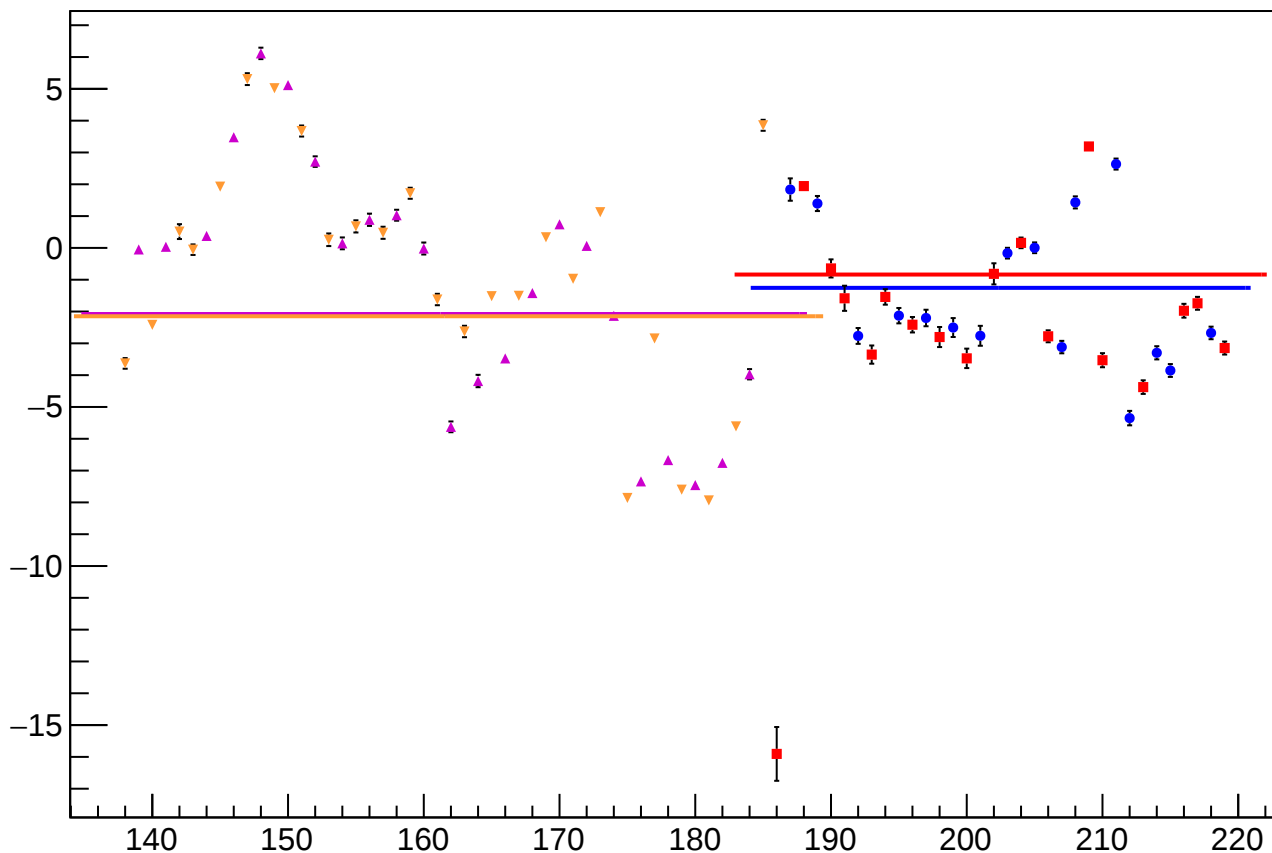
Right: -0.529 ± 0.011 χ^2/NDF : 1545.1/33

In: -0.249 ± 0.003 χ^2/NDF : 2955.1/38

Out: -0.262 ± 0.003 χ^2/NDF : 2422.8/42

All: -0.256 ± 0.002 χ^2/NDF : 5388.8/81

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected

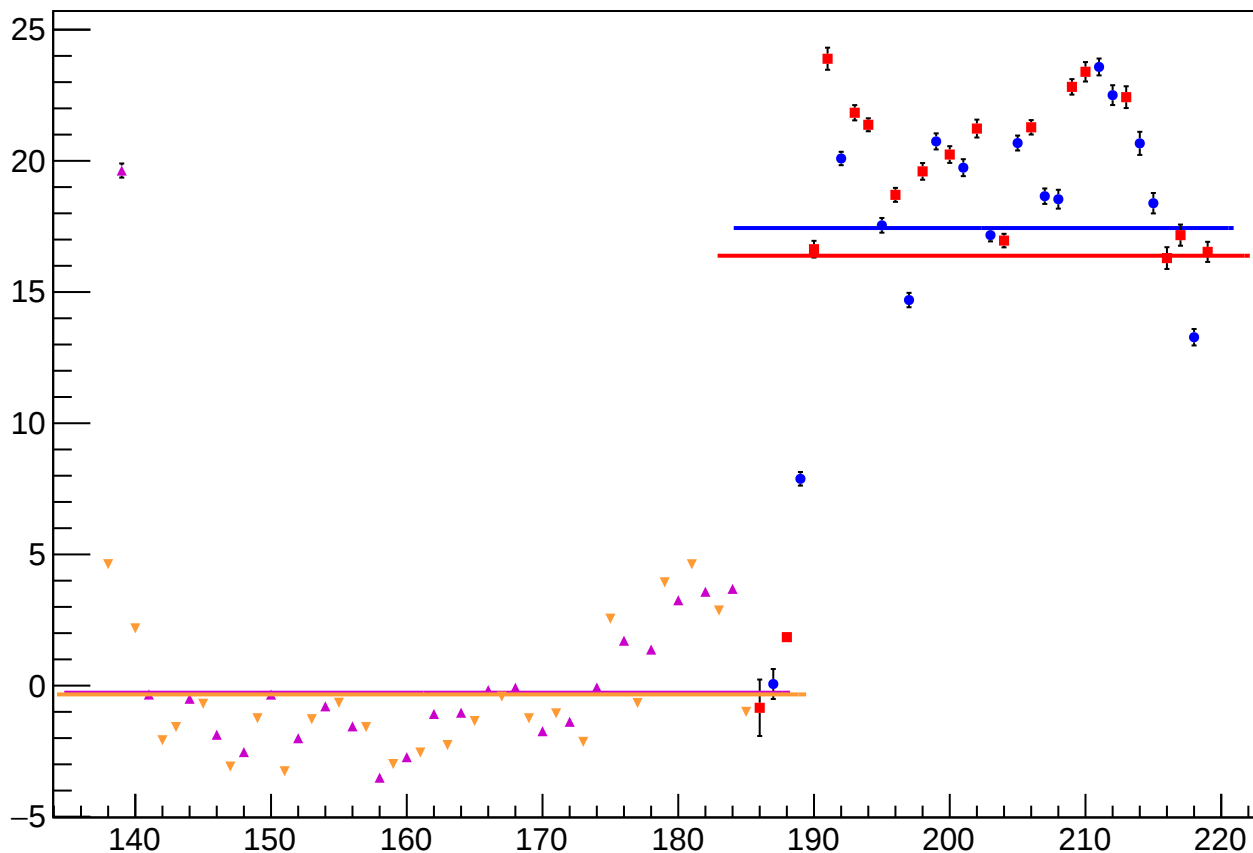


Right In: -1.256 ± 0.054 χ^2/NDF : 1833.9/15
 Left Out: -2.149 ± 0.026 χ^2/NDF : 24536.3/24
 Right Out: -0.837 ± 0.050 χ^2/NDF : 2595.5/17
 Left In: -2.078 ± 0.026 χ^2/NDF : 23245.8/22

Left: -2.114 ± 0.018 χ^2/NDF : 47785.8/47
 Right: -1.032 ± 0.037 χ^2/NDF : 4461.7/33
 In: -1.922 ± 0.023 χ^2/NDF : 25268.7/38
 Out: -1.879 ± 0.023 χ^2/NDF : 27671.1/42

All: -1.900 ± 0.016 χ^2/NDF : 52941.6/81

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.440 ± 0.077 $\chi^2/\text{NDF}: 3598.2/15$

Left Out: -0.335 ± 0.021 $\chi^2/\text{NDF}: 12596.1/24$

Right Out: 16.384 ± 0.071 $\chi^2/\text{NDF}: 11338.1/17$

Left In: -0.269 ± 0.021 $\chi^2/\text{NDF}: 13323.1/22$

Left: -0.303 ± 0.015 $\chi^2/\text{NDF}: 25924.2/47$

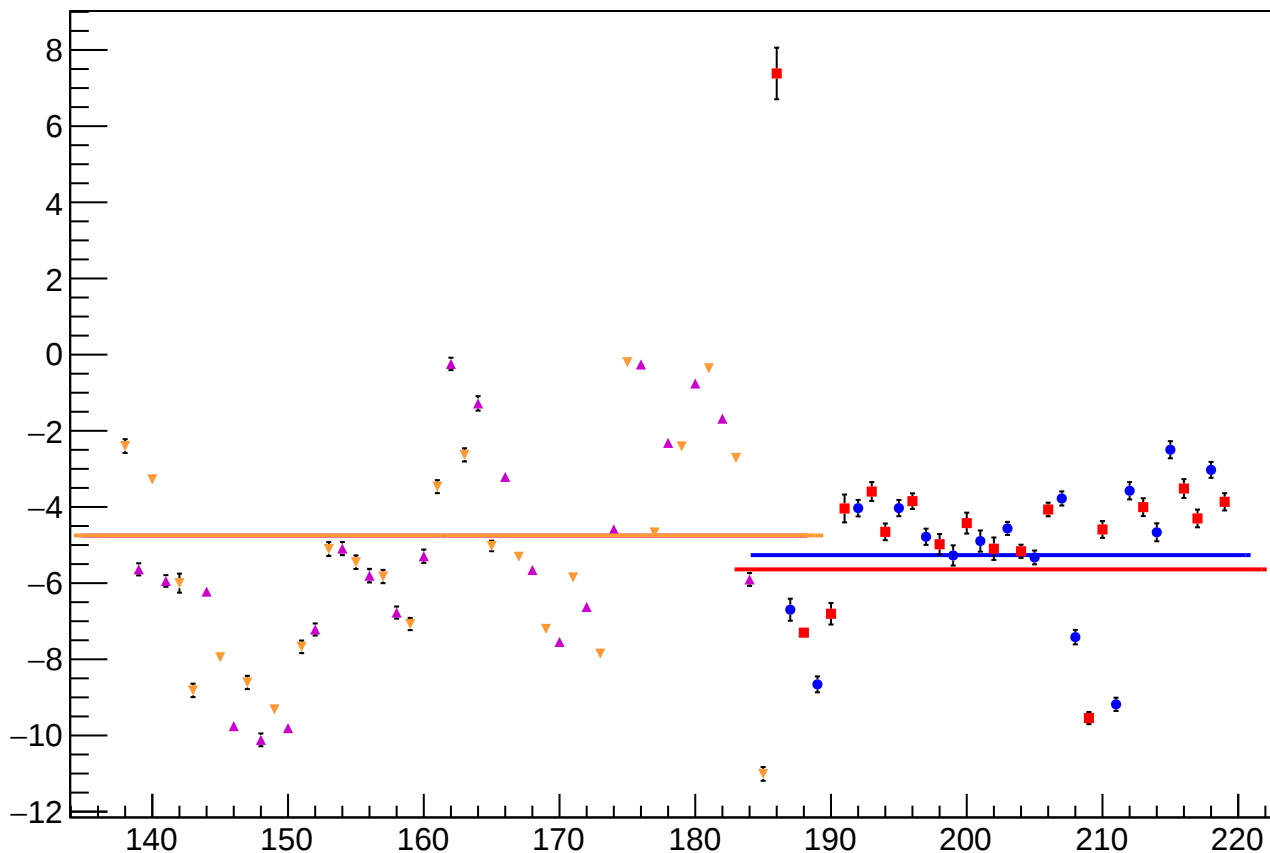
Right: 16.869 ± 0.052 $\chi^2/\text{NDF}: 15037.0/33$

In: 0.941 ± 0.020 $\chi^2/\text{NDF}: 65767.5/38$

Out: 0.952 ± 0.020 $\chi^2/\text{NDF}: 74706.0/42$

All: 0.946 ± 0.014 $\chi^2/\text{NDF}: 140473.7/81$

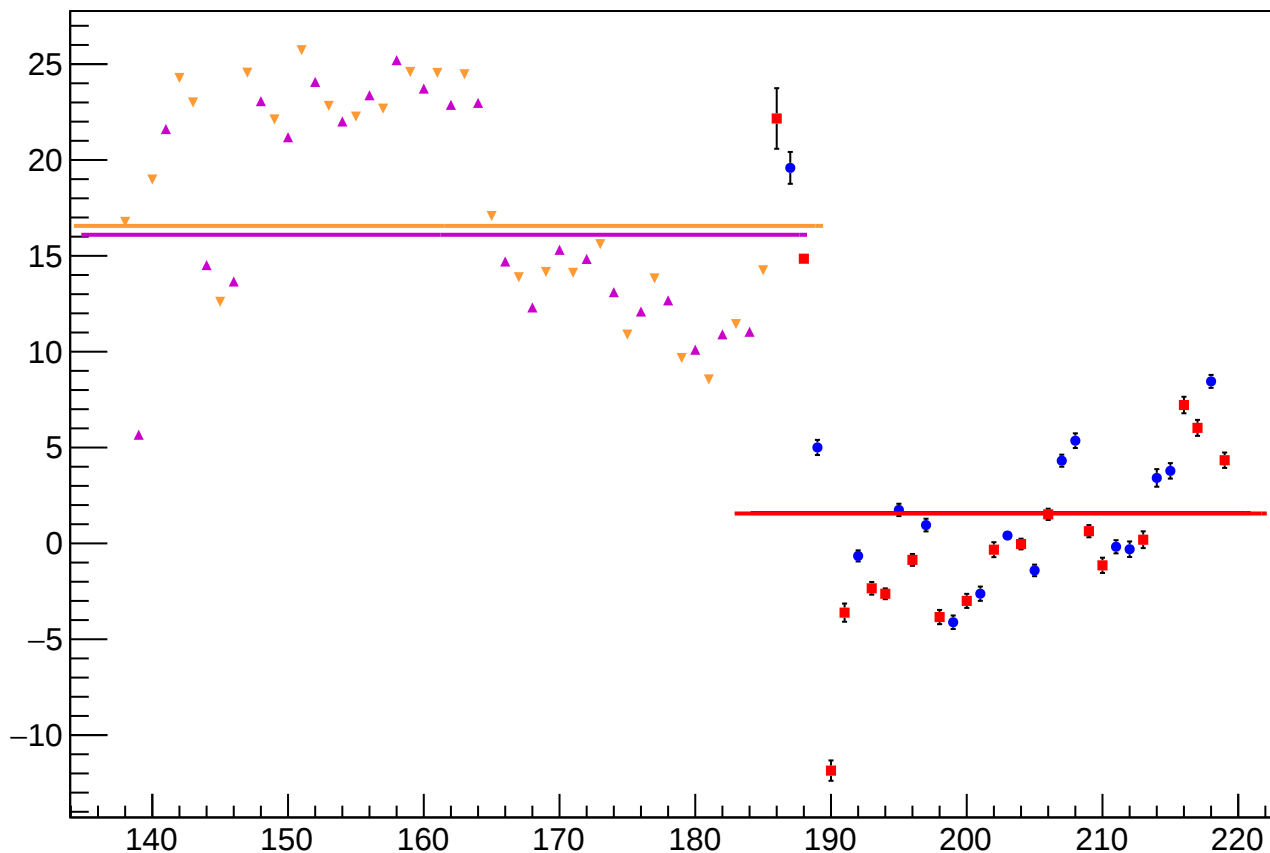
reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.264+/-0.053 χ^2/NDF : 1400.8/15
 Left Out: -4.748+/-0.026 χ^2/NDF :13289.8/24
 Right Out: -5.639+/-0.047 χ^2/NDF : 1868.7/17
 Left In: -4.753+/-0.026 χ^2/NDF :14119.2/22

Left: -4.751+/-0.018 χ^2/NDF : 27409.0/47
 Right: -5.471+/-0.035 χ^2/NDF : 3297.5/33
 In: -4.854+/-0.023 χ^2/NDF :15595.6/38
 Out: -4.952+/-0.023 χ^2/NDF :15430.8/42
 All: -4.905+/-0.016 χ^2/NDF : 31035.3/81

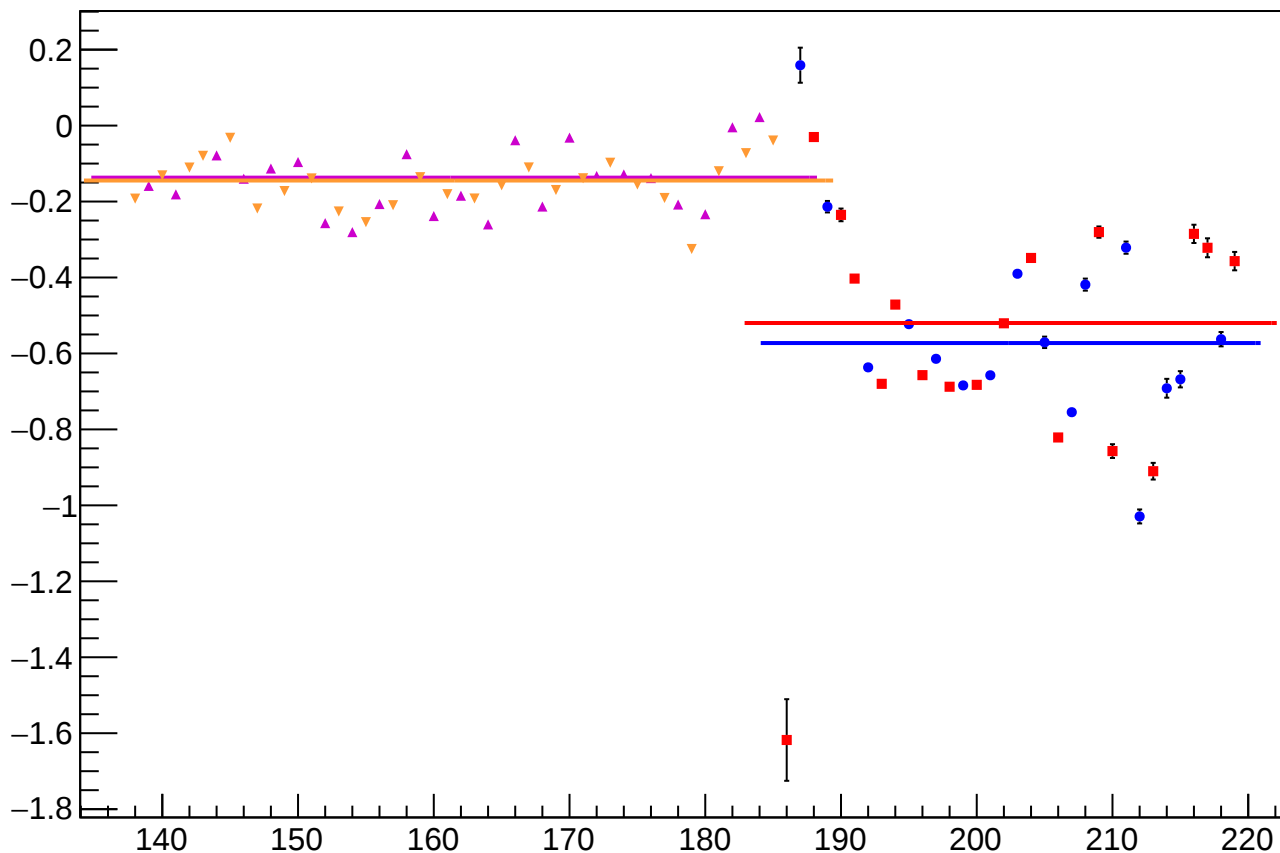
reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.580 $\pm$ 0.088 χ^2 /NDF: 1791.8/15
 Left Out: 16.563 $\pm$ 0.023 χ^2 /NDF:53858.5/24
 Right Out: 1.561 $\pm$ 0.083 χ^2 /NDF: 5397.4/17
 Left In: 16.098 $\pm$ 0.024 χ^2 /NDF:42345.7/22

Left: 16.335 $\pm$ 0.017 χ^2 /NDF: 96401.9/47
 Right: 1.570 $\pm$ 0.060 χ^2 /NDF: 7189.2/33
 In: 15.117 $\pm$ 0.023 χ^2 /NDF:69794.9/38
 Out: 15.492 $\pm$ 0.022 χ^2 /NDF:89237.6/42
 All: 15.308 $\pm$ 0.016 χ^2 /NDF: 159170.8/81

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.573 ± 0.003 χ^2/NDF : 2683.2/15

Left Out: -0.145 ± 0.001 χ^2/NDF : 3769.7/24

Right Out: -0.520 ± 0.003 χ^2/NDF : 5698.5/17

Left In: -0.137 ± 0.001 χ^2/NDF : 5392.6/22

Left: -0.141 ± 0.001 χ^2/NDF : 9187.6/47

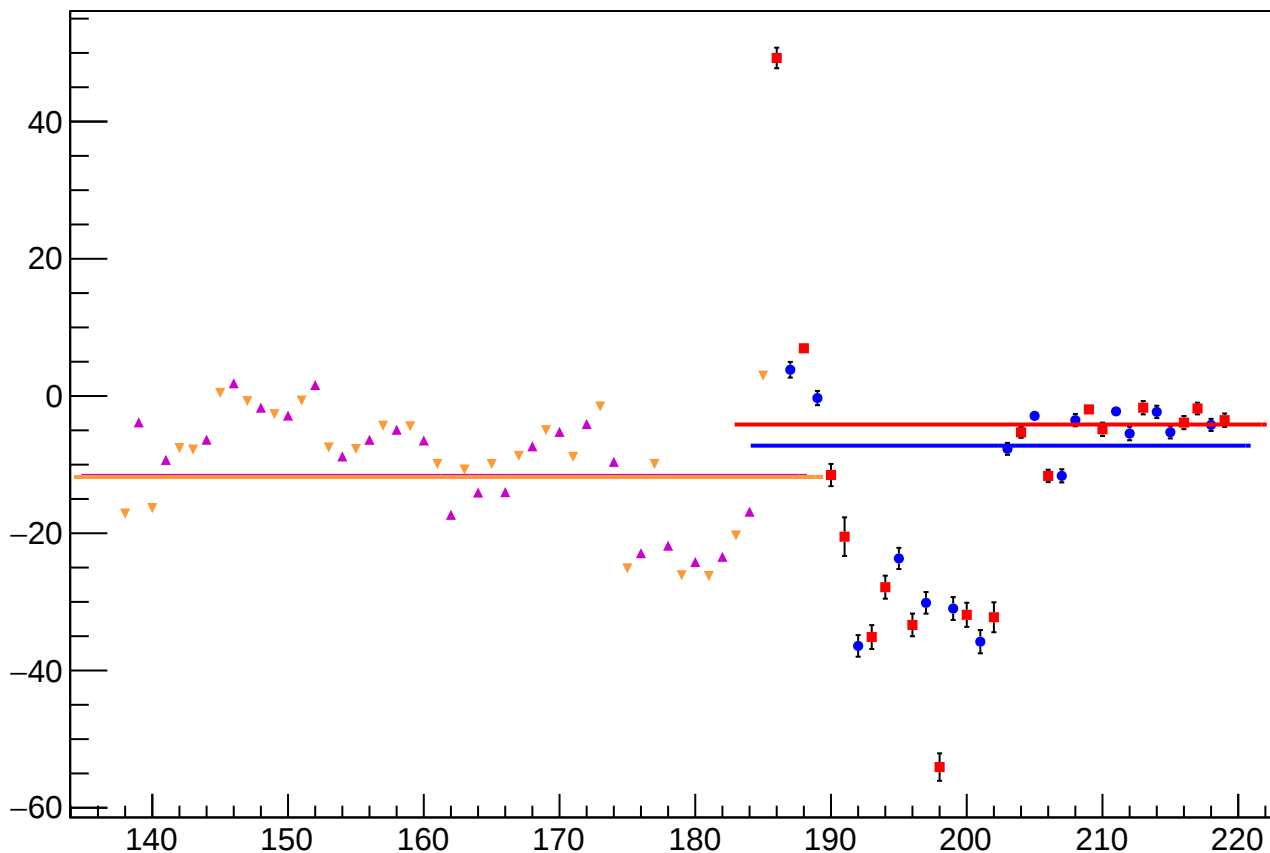
Right: -0.544 ± 0.002 χ^2/NDF : 8523.3/33

In: -0.180 ± 0.001 χ^2/NDF : 24354.7/38

Out: -0.185 ± 0.001 χ^2/NDF : 23151.5/42

All: -0.183 ± 0.001 χ^2/NDF : 47519.6/81

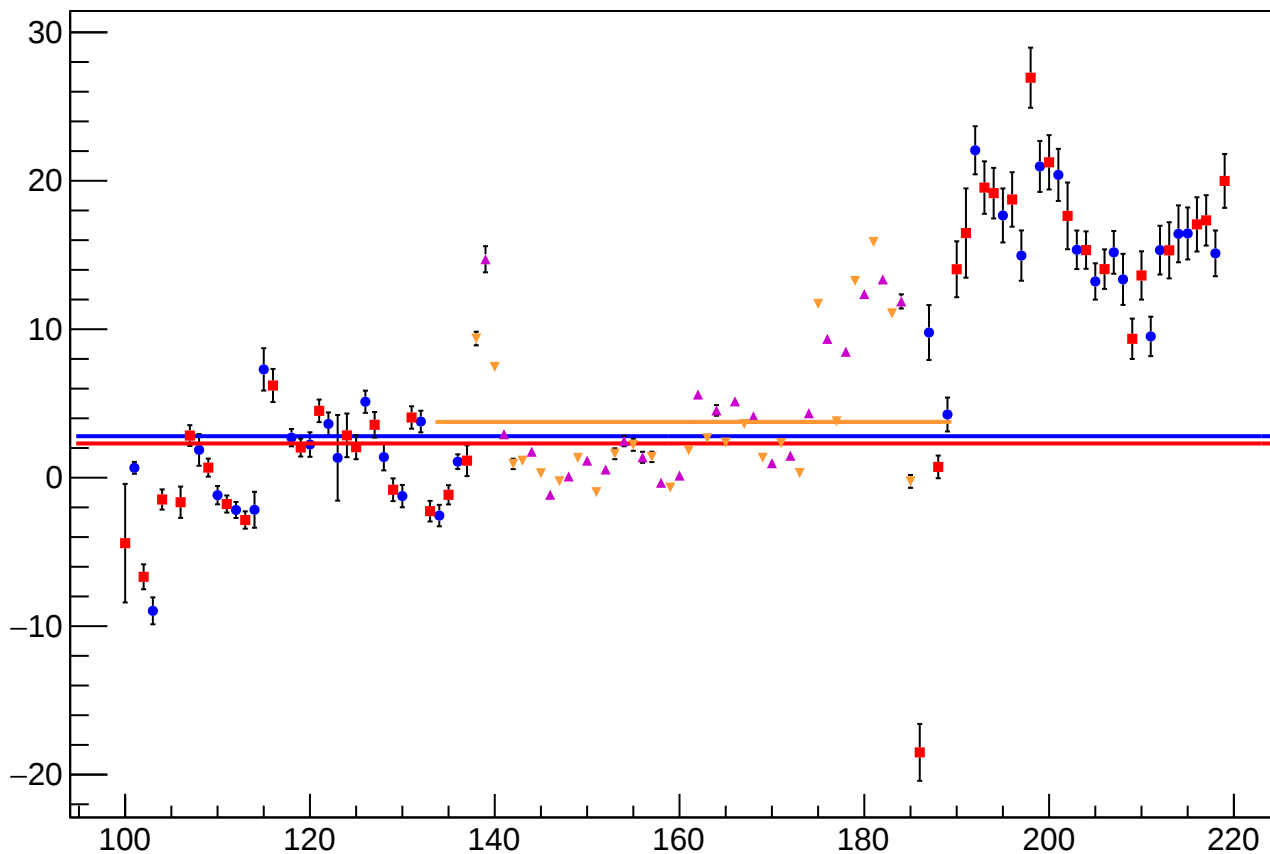
reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -7.233 ± 0.251 $\chi^2/\text{NDF}: 1464.0/15$
 Left Out: -11.801 ± 0.070 $\chi^2/\text{NDF}: 17308.2/24$
 Right Out: -4.151 ± 0.245 $\chi^2/\text{NDF}: 3710.9/17$
 Left In: -11.642 ± 0.072 $\chi^2/\text{NDF}: 14121.2/22$

Left: -11.723 ± 0.050 $\chi^2/\text{NDF}: 31432.0/47$
 Right: -5.657 ± 0.175 $\chi^2/\text{NDF}: 5252.1/33$
 In: -11.310 ± 0.069 $\chi^2/\text{NDF}: 15870.7/38$
 Out: -11.221 ± 0.068 $\chi^2/\text{NDF}: 21917.5/42$
 All: -11.265 ± 0.048 $\chi^2/\text{NDF}: 37789.0/81$

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.795 ± 0.156 $\chi^2/\text{NDF}: 1485.9/32$

Left Out: 3.757 ± 0.056 $\chi^2/\text{NDF}: 7450.7/24$

Right Out: 2.305 ± 0.158 $\chi^2/\text{NDF}: 1720.9/36$

Left In: 3.757 ± 0.057 $\chi^2/\text{NDF}: 5629.4/22$

Left: 3.757 ± 0.040 $\chi^2/\text{NDF}: 13080.0/47$

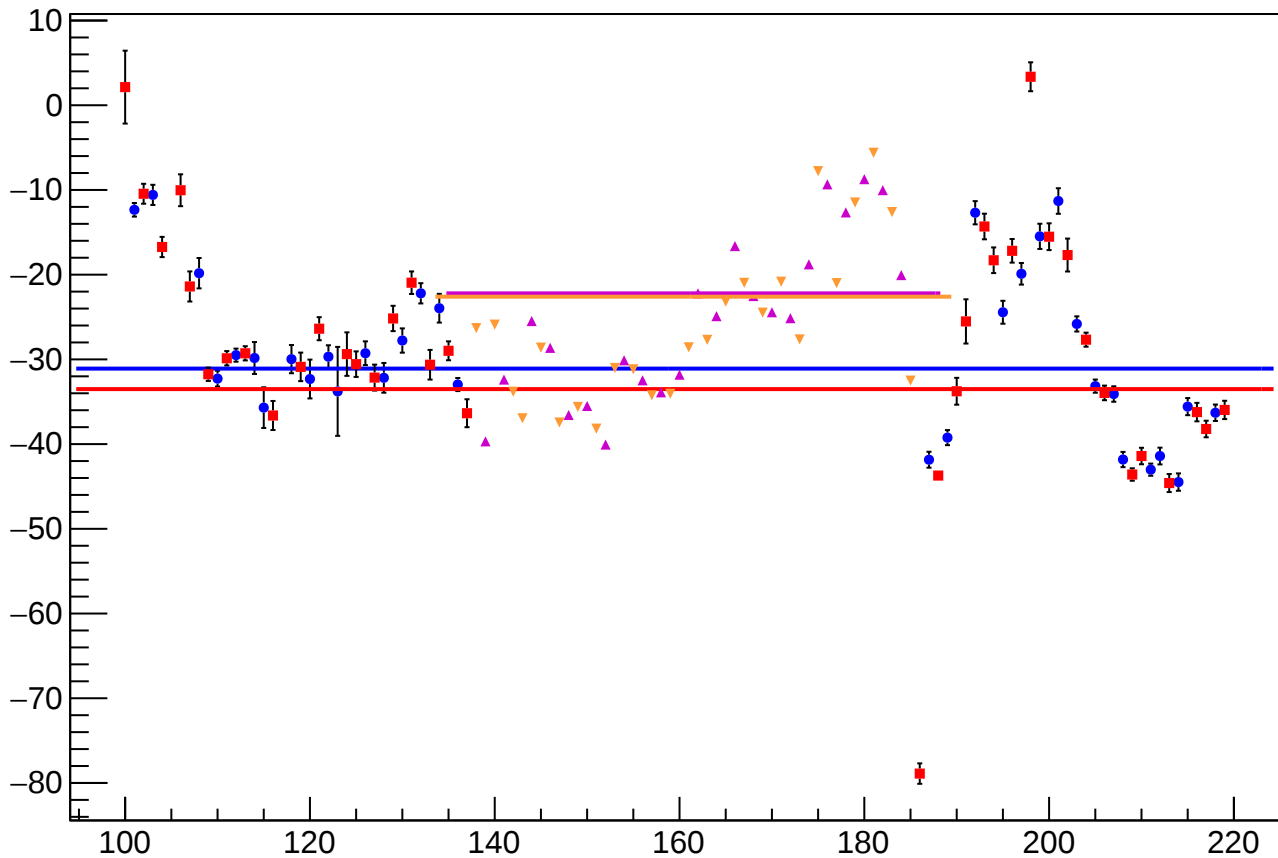
Right: 2.553 ± 0.111 $\chi^2/\text{NDF}: 3211.7/69$

In: 3.645 ± 0.053 $\chi^2/\text{NDF}: 7149.0/55$

Out: 3.597 ± 0.052 $\chi^2/\text{NDF}: 9246.9/61$

All: 3.620 ± 0.037 $\chi^2/\text{NDF}: 16396.3/117$

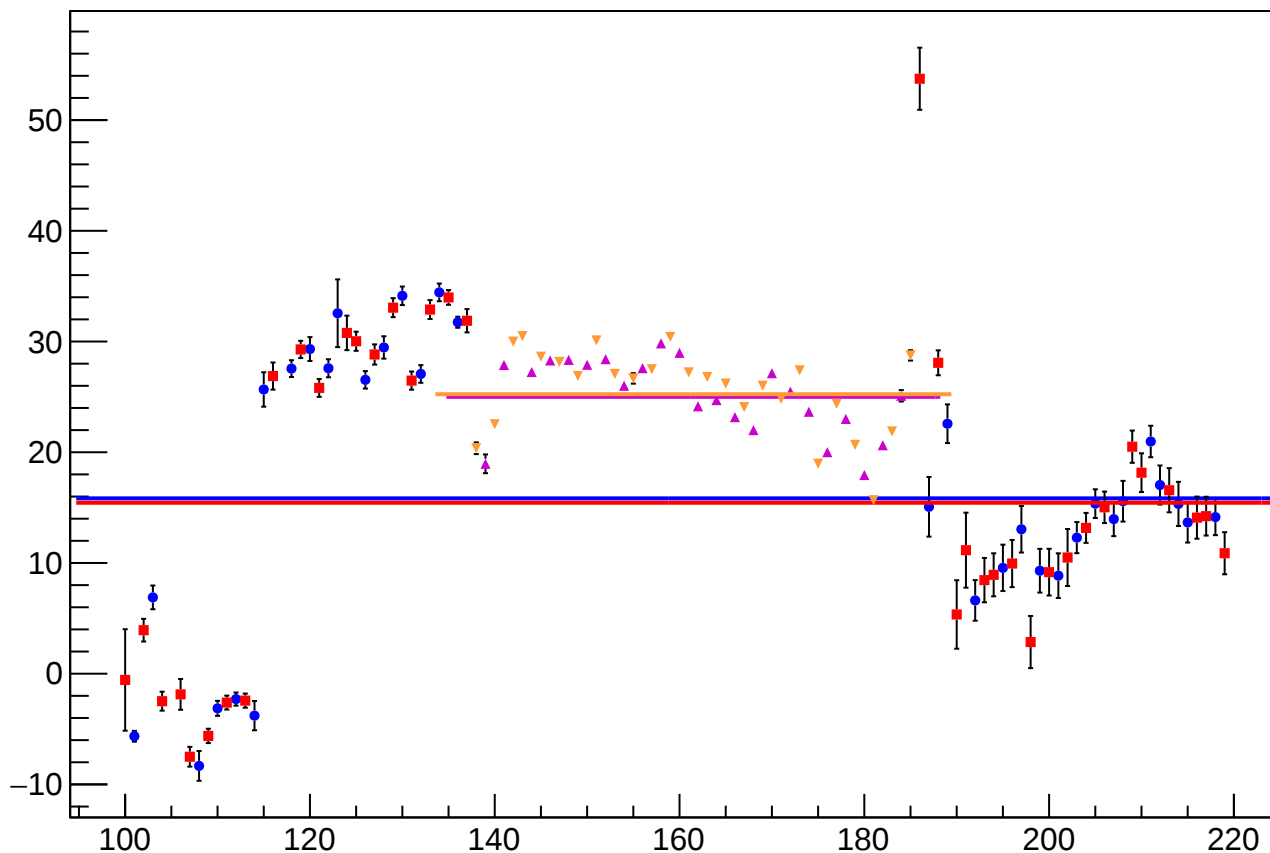
reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -31.088 ± 0.191 χ^2/NDF : 2558.2/32
 Left Out: -22.598 ± 0.071 χ^2/NDF : 19933.4/24
 Right Out: -33.507 ± 0.184 χ^2/NDF : 4576.9/36
 Left In: -22.209 ± 0.072 χ^2/NDF : 17627.4/22

Left: -22.406 ± 0.050 χ^2/NDF : 37575.6/47
 Right: -32.345 ± 0.133 χ^2/NDF : 7218.2/69
 In: -23.299 ± 0.067 χ^2/NDF : 22073.9/55
 Out: -24.002 ± 0.066 χ^2/NDF : 27575.0/61
 All: -23.656 ± 0.047 χ^2/NDF : 49704.7/117

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 15.836+/-0.176 χ^2/NDF : 7642.3/32

Left Out: 25.242+/-0.063 χ^2/NDF : 3786.5/24

Right Out: 15.440+/-0.179 χ^2/NDF : 7682.5/36

Left In: 25.009+/-0.064 χ^2/NDF : 2722.0/22

Left: 25.128+/-0.045 χ^2/NDF : 6515.2/47

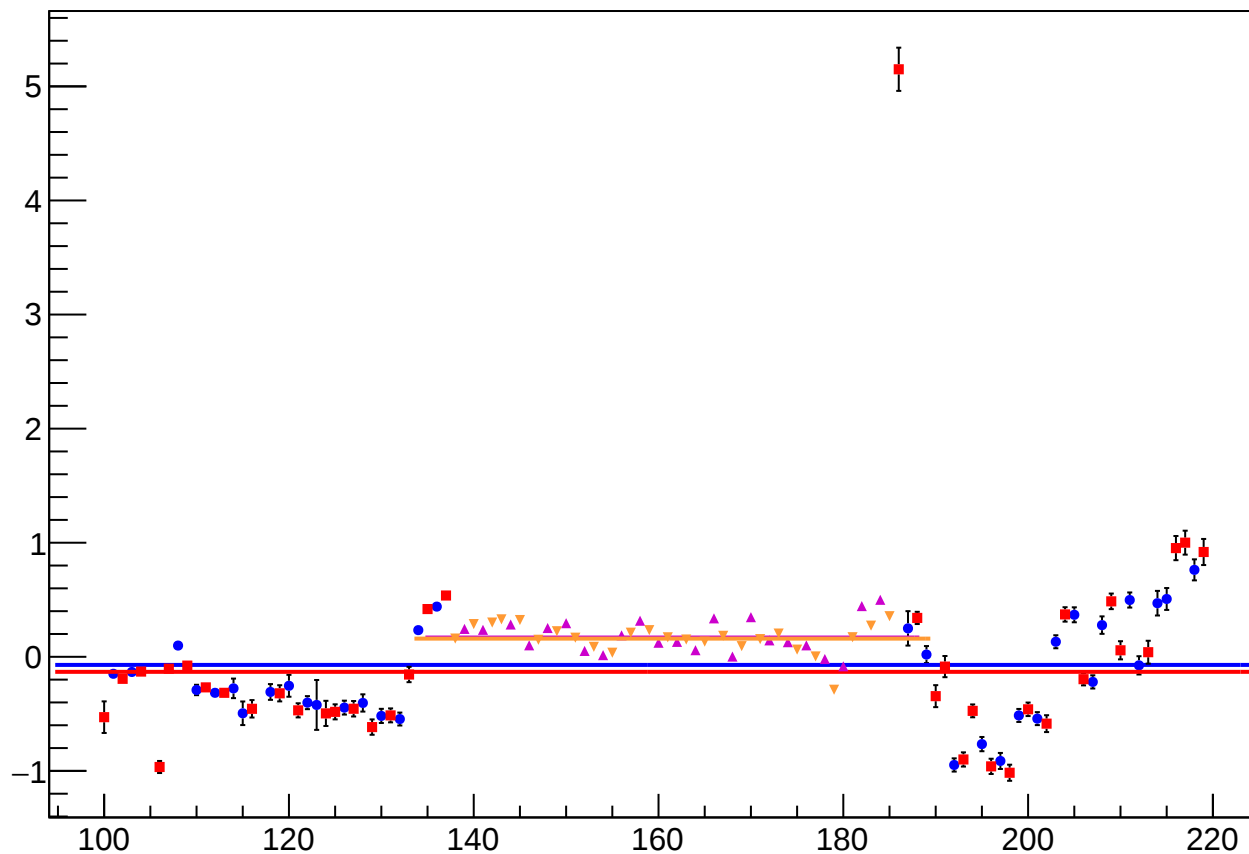
Right: 15.642+/-0.126 χ^2/NDF : 15327.2/69

In: 23.942+/-0.060 χ^2/NDF : 12765.8/55

Out: 24.178+/-0.059 χ^2/NDF : 14127.9/61

All: 24.062+/-0.042 χ^2/NDF : 26901.6/117

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.071 ± 0.009 χ^2/NDF : 1956.3/32

Left Out: 0.159 ± 0.003 χ^2/NDF : 1864.2/24

Right Out: -0.132 ± 0.009 χ^2/NDF : 3050.4/36

Left In: 0.169 ± 0.003 χ^2/NDF : 2418.8/22

Left: 0.164 ± 0.002 χ^2/NDF : 4288.4/47

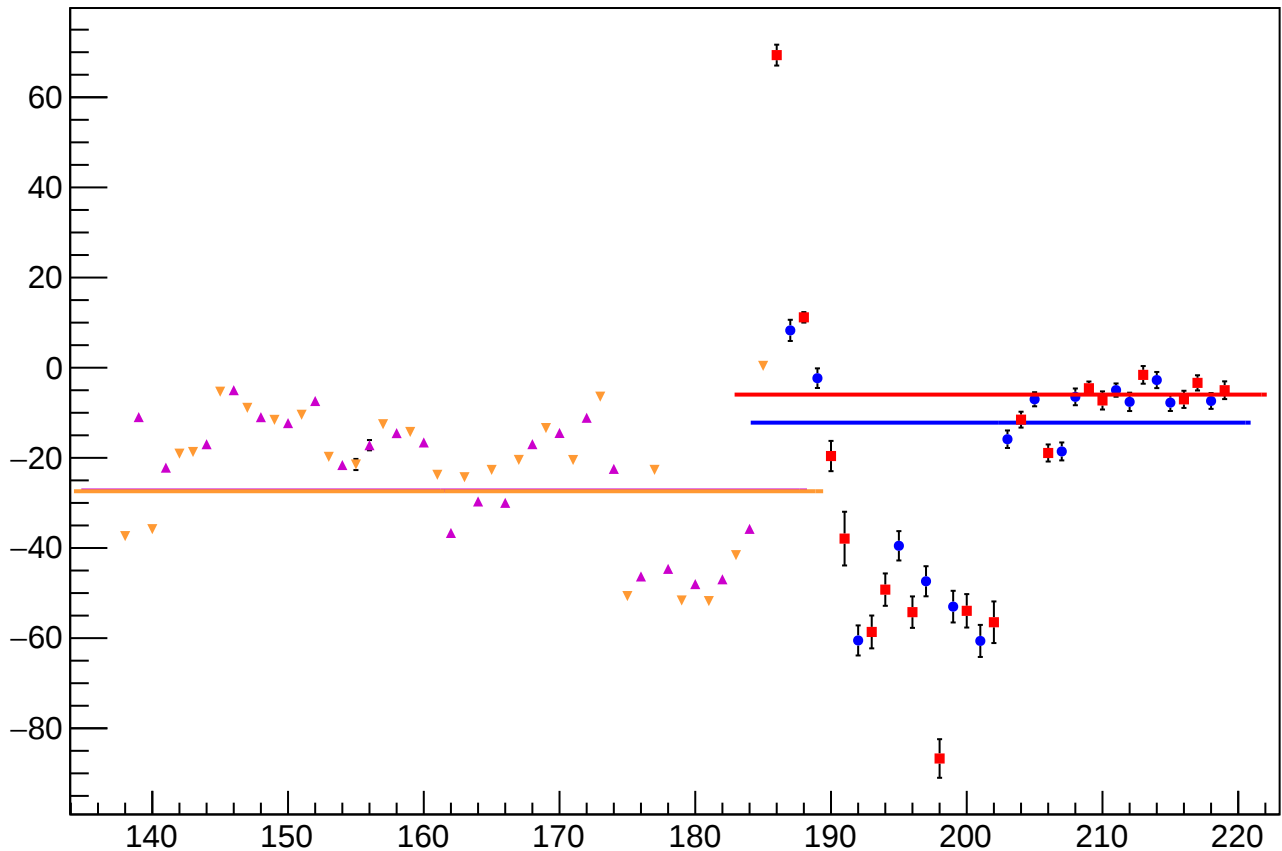
Right: -0.101 ± 0.006 χ^2/NDF : 5030.0/69

In: 0.146 ± 0.003 χ^2/NDF : 5033.0/55

Out: 0.132 ± 0.003 χ^2/NDF : 5886.4/61

All: 0.139 ± 0.002 χ^2/NDF : 10931.8/117

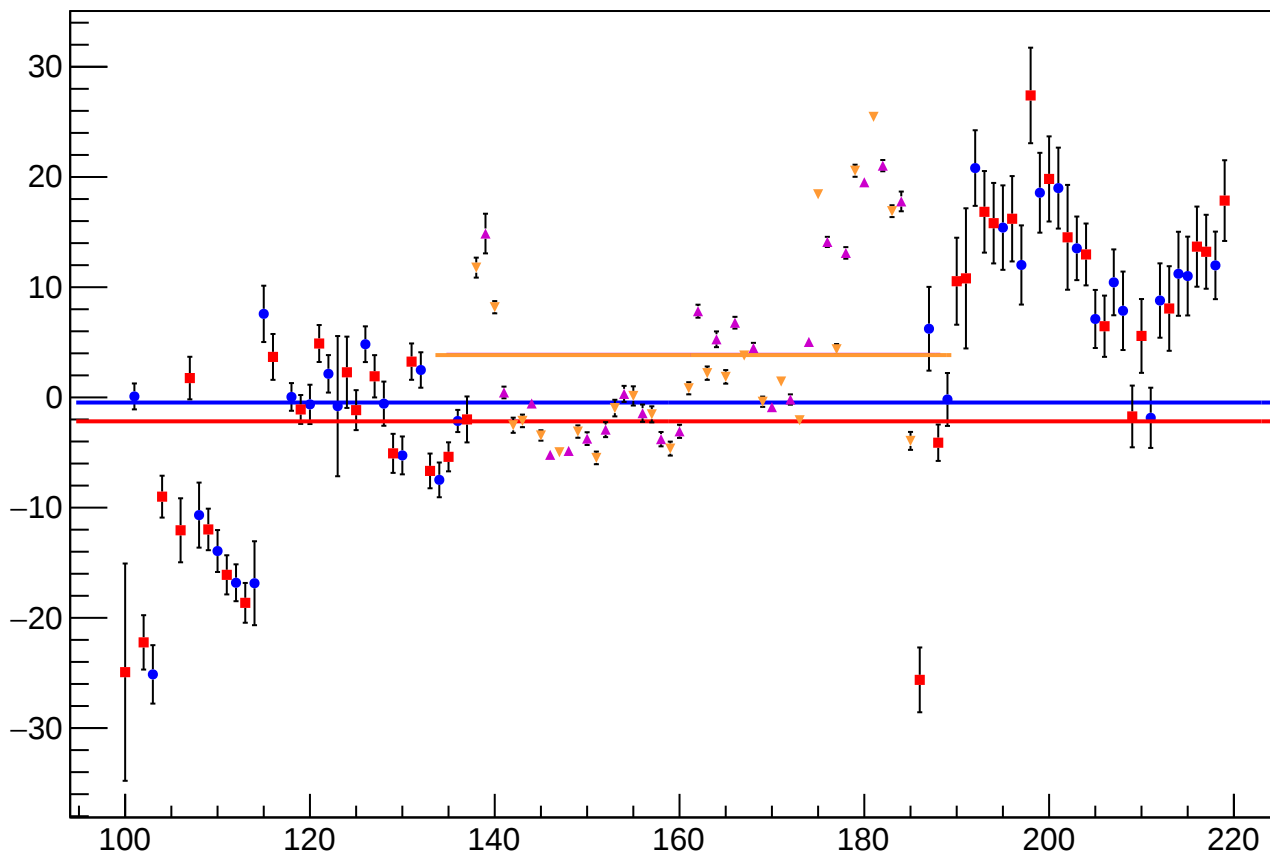
reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -12.190 ± 0.522 $\chi^2/\text{NDF}: 912.8/15$
 Left Out: -27.408 ± 0.137 $\chi^2/\text{NDF}: 14850.5/24$
 Right Out: -5.966 ± 0.507 $\chi^2/\text{NDF}: 2573.0/17$
 Left In: -27.243 ± 0.139 $\chi^2/\text{NDF}: 11305.2/22$

Left: -27.327 ± 0.098 $\chi^2/\text{NDF}: 26156.4/47$
 Right: -8.985 ± 0.364 $\chi^2/\text{NDF}: 3559.0/33$
 In: -26.242 ± 0.135 $\chi^2/\text{NDF}: 12994.1/38$
 Out: -25.950 ± 0.132 $\chi^2/\text{NDF}: 19093.2/42$
 All: -26.093 ± 0.094 $\chi^2/\text{NDF}: 32089.7/81$

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.463 ± 0.366 $\chi^2/\text{NDF}: 540.9/32$

Left Out: 3.841 ± 0.109 $\chi^2/\text{NDF}: 6939.2/24$

Right Out: -2.171 ± 0.372 $\chi^2/\text{NDF}: 697.7/36$

Left In: 3.866 ± 0.111 $\chi^2/\text{NDF}: 5424.0/22$

Left: 3.853 ± 0.078 $\chi^2/\text{NDF}: 12363.3/47$

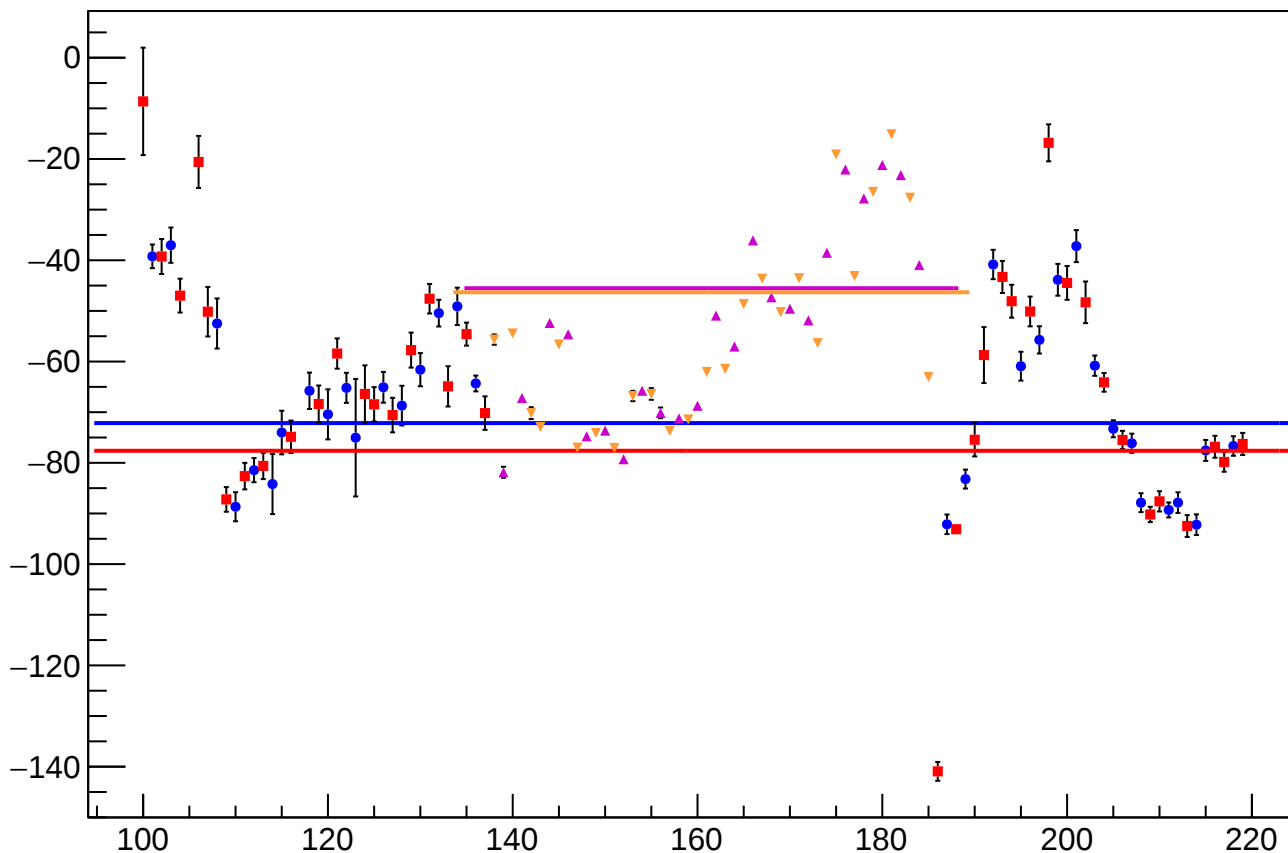
Right: -1.303 ± 0.261 $\chi^2/\text{NDF}: 1249.4/69$

In: 3.501 ± 0.106 $\chi^2/\text{NDF}: 6092.9/55$

Out: 3.365 ± 0.105 $\chi^2/\text{NDF}: 7877.0/61$

All: 3.432 ± 0.075 $\chi^2/\text{NDF}: 13970.7/117$

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.152 ± 0.424 χ^2/NDF : 1452.4/32

Left Out: -46.318 ± 0.138 χ^2/NDF : 20134.6/24

Right Out: -77.617 ± 0.407 χ^2/NDF : 3100.7/36

Left In: -45.522 ± 0.140 χ^2/NDF : 17525.4/22

Left: -45.925 ± 0.098 χ^2/NDF : 37676.5/47

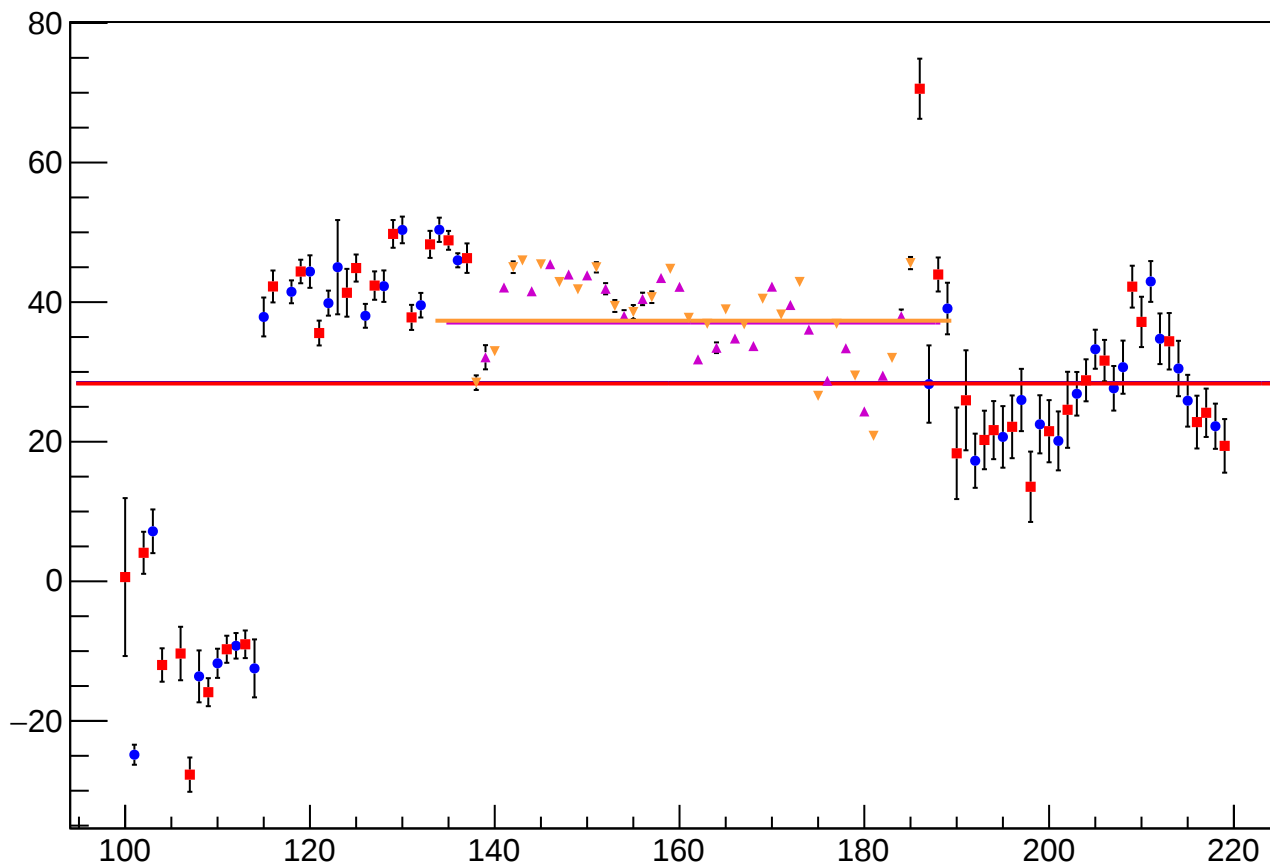
Right: -74.996 ± 0.293 χ^2/NDF : 4639.7/69

In: -48.134 ± 0.133 χ^2/NDF : 22540.2/55

Out: -49.546 ± 0.131 χ^2/NDF : 28546.5/61

All: -48.851 ± 0.093 χ^2/NDF : 51144.2/117

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.416 ± 0.411 $\chi^2/\text{NDF}: 3372.7/32$

Left Out: 37.340 ± 0.123 $\chi^2/\text{NDF}: 3149.1/24$

Right Out: 28.340 ± 0.423 $\chi^2/\text{NDF}: 3234.5/36$

Left In: 37.074 ± 0.125 $\chi^2/\text{NDF}: 2397.3/22$

Left: 37.209 ± 0.088 $\chi^2/\text{NDF}: 5548.7/47$

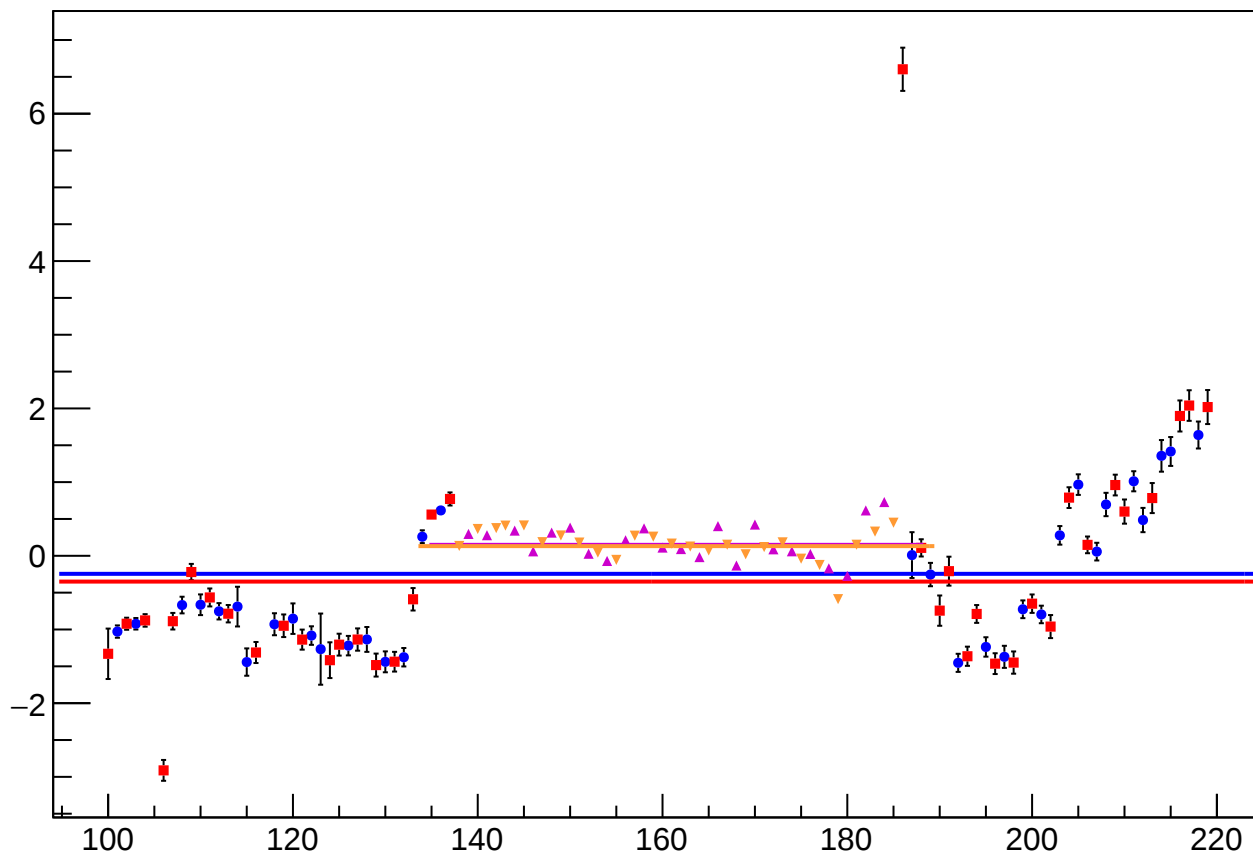
Right: 28.379 ± 0.295 $\chi^2/\text{NDF}: 6607.2/69$

In: 36.339 ± 0.120 $\chi^2/\text{NDF}: 6176.0/55$

Out: 36.639 ± 0.118 $\chi^2/\text{NDF}: 6801.3/61$

All: 36.491 ± 0.084 $\chi^2/\text{NDF}: 12980.5/117$

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.245 ± 0.021 χ^2/NDF : 1740.0/32

Left Out: 0.131 ± 0.006 χ^2/NDF : 1426.3/24

Right Out: -0.350 ± 0.021 χ^2/NDF : 2579.0/36

Left In: 0.149 ± 0.006 χ^2/NDF : 1803.6/22

Left: 0.140 ± 0.004 χ^2/NDF : 3234.6/47

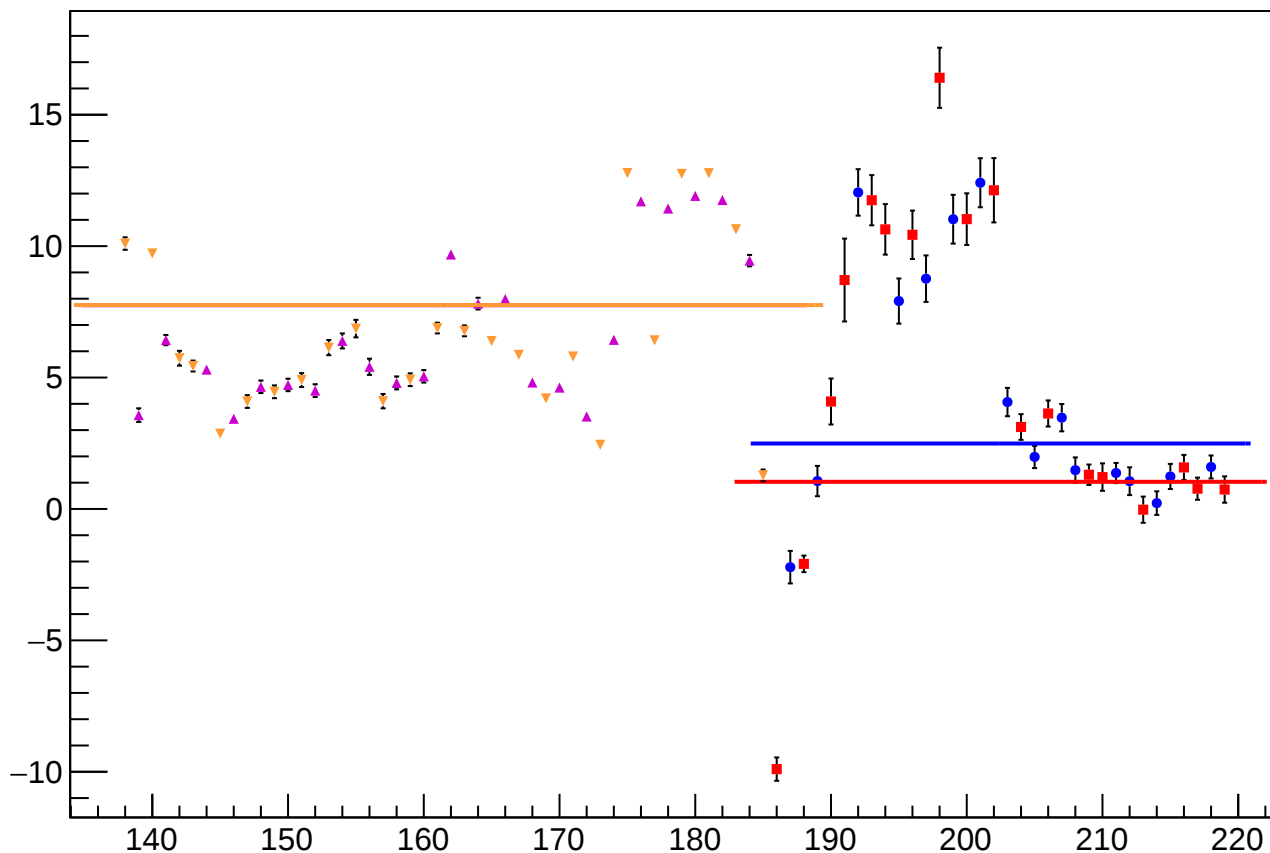
Right: -0.296 ± 0.015 χ^2/NDF : 4331.8/69

In: 0.120 ± 0.006 χ^2/NDF : 3881.6/55

Out: 0.099 ± 0.005 χ^2/NDF : 4495.6/61

All: 0.110 ± 0.004 χ^2/NDF : 8384.9/117

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.490 ± 0.136 χ^2/NDF : 538.6/15

Left Out: 7.757 ± 0.034 χ^2/NDF : 11728.6/24

Right Out: 1.033 ± 0.130 χ^2/NDF : 1488.2/17

Left In: 7.753 ± 0.035 χ^2/NDF : 8345.2/22

Left: 7.755 ± 0.025 χ^2/NDF : 20073.8/47

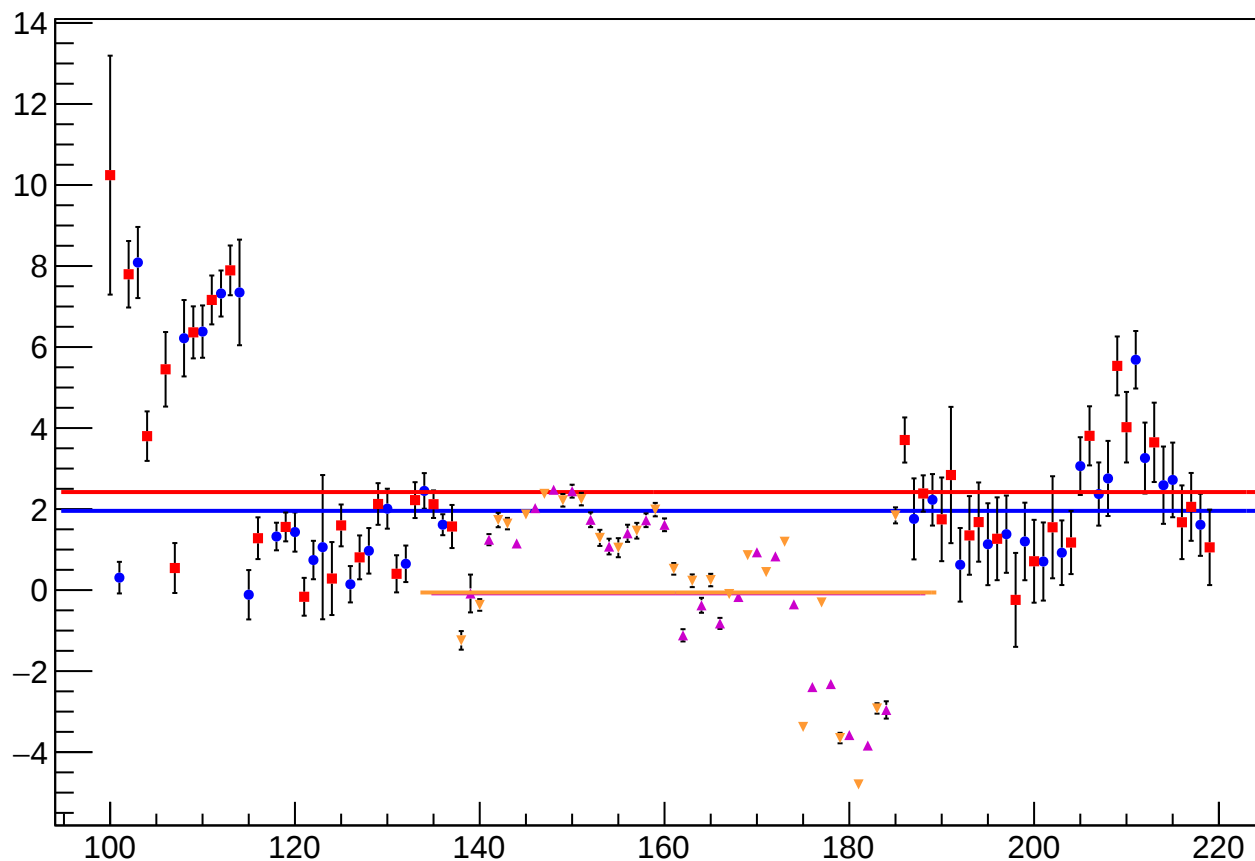
Right: 1.726 ± 0.094 χ^2/NDF : 2086.7/33

In: 7.427 ± 0.034 χ^2/NDF : 10280.3/38

Out: 7.317 ± 0.033 χ^2/NDF : 15722.6/42

All: 7.371 ± 0.024 χ^2/NDF : 26008.2/81

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.956 ± 0.102 $\chi^2/\text{NDF}: 336.0/32$

Left Out: -0.059 ± 0.028 $\chi^2/\text{NDF}: 6068.8/24$

Right Out: 2.420 ± 0.104 $\chi^2/\text{NDF}: 385.6/36$

Left In: -0.080 ± 0.028 $\chi^2/\text{NDF}: 4979.5/22$

Left: -0.070 ± 0.020 $\chi^2/\text{NDF}: 11048.5/47$

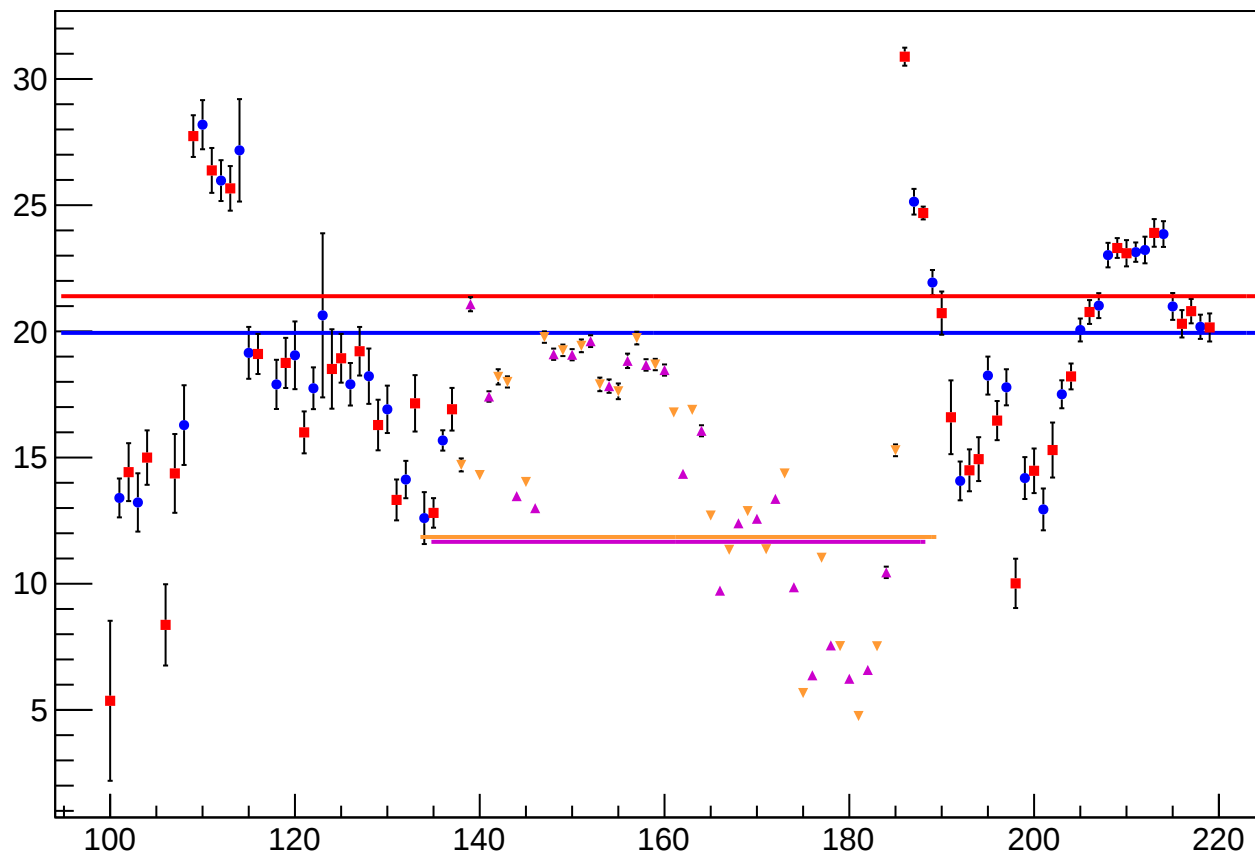
Right: 2.185 ± 0.073 $\chi^2/\text{NDF}: 731.7/69$

In: 0.063 ± 0.027 $\chi^2/\text{NDF}: 5682.3/55$

Out: 0.106 ± 0.027 $\chi^2/\text{NDF}: 6986.9/61$

All: 0.085 ± 0.019 $\chi^2/\text{NDF}: 12670.5/117$

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 19.940 $\pm$ 0.114 χ^2 /NDF: 1054.6/32

Left Out: 11.853 $\pm$ 0.035 χ^2 /NDF:19149.4/24

Right Out: 21.393 $\pm$ 0.108 χ^2 /NDF: 2138.2/36

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

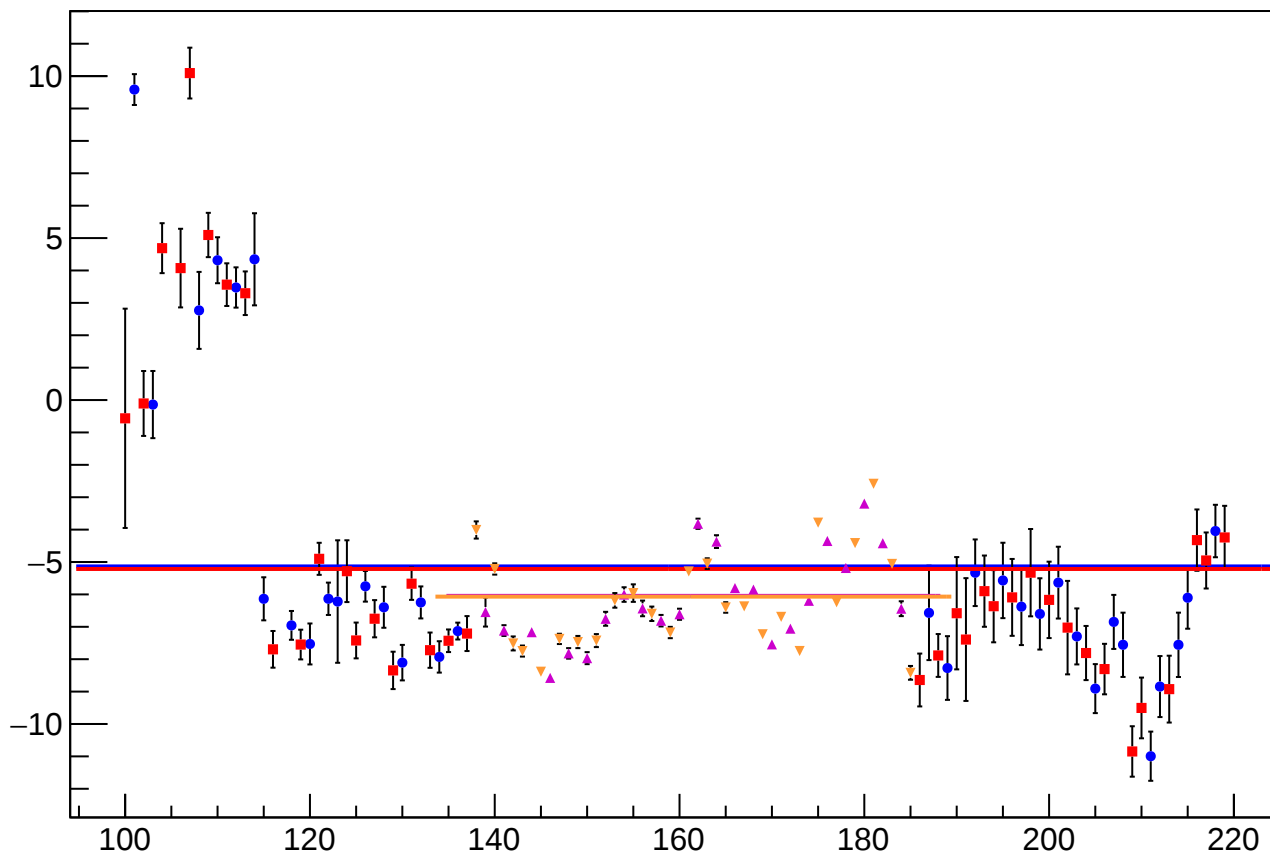
Right: 20.709 $\pm$ 0.078 χ^2 /NDF: 3278.6/69

In: 12.379 $\pm$ 0.034 χ^2 /NDF:22575.2/55

Out: 12.750 $\pm$ 0.033 χ^2 /NDF:28403.4/61

All: 12.568 $\pm$ 0.024 χ^2 /NDF: 51040.3/117

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.136 ± 0.115 $\chi^2/\text{NDF}: 1746.3/32$

Left Out: -6.068 ± 0.031 $\chi^2/\text{NDF}: 2671.7/24$

Right Out: -5.214 ± 0.118 $\chi^2/\text{NDF}: 1524.5/36$

Left In: -6.045 ± 0.032 $\chi^2/\text{NDF}: 2293.7/22$

Left: -6.057 ± 0.022 $\chi^2/\text{NDF}: 4965.7/47$

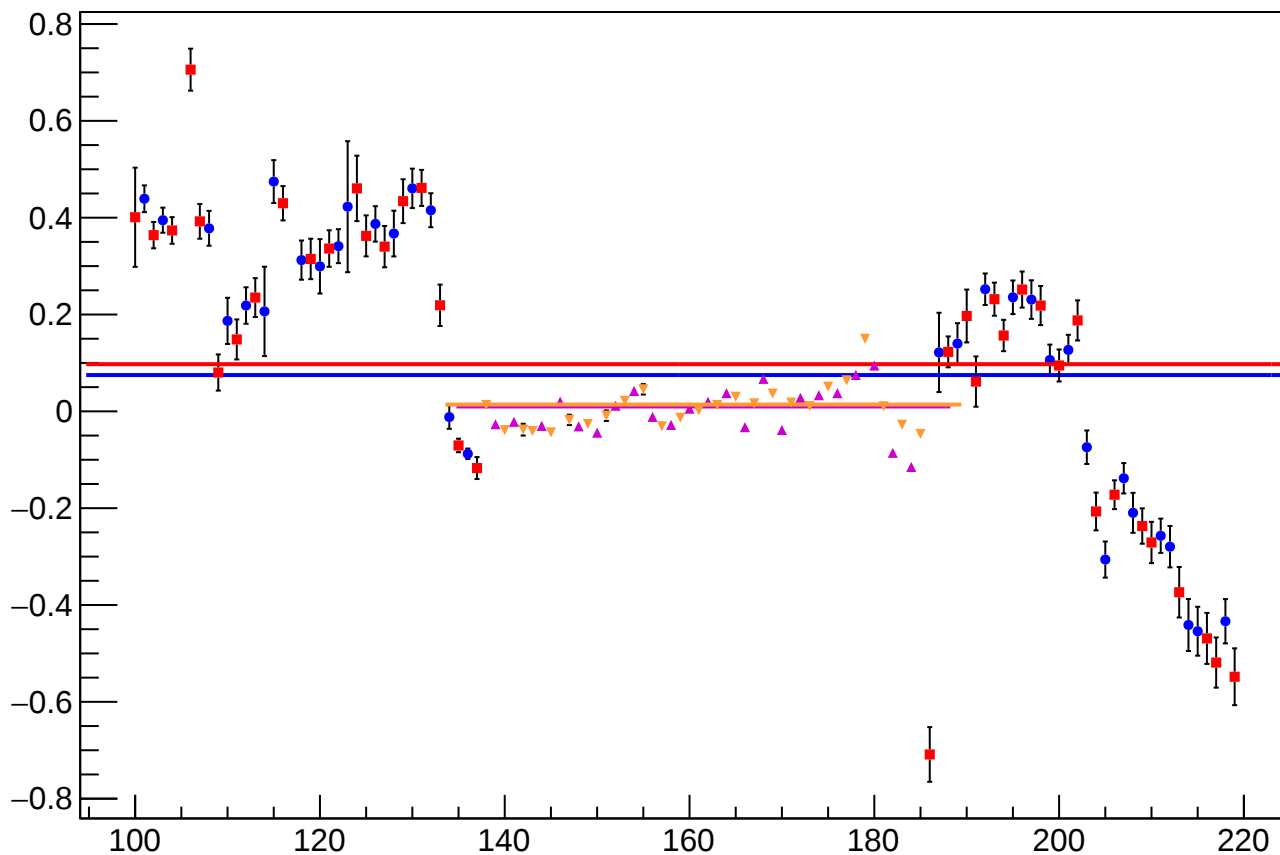
Right: -5.174 ± 0.082 $\chi^2/\text{NDF}: 3271.1/69$

In: -5.980 ± 0.031 $\chi^2/\text{NDF}: 4098.5/55$

Out: -6.013 ± 0.030 $\chi^2/\text{NDF}: 4245.3/61$

All: -5.997 ± 0.021 $\chi^2/\text{NDF}: 8344.3/117$

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.075 ± 0.006 χ^2/NDF : 1919.7/32

Left Out: 0.014 ± 0.001 χ^2/NDF : 956.2/24

Right Out: 0.097 ± 0.006 χ^2/NDF : 2149.9/36

Left In: 0.010 ± 0.001 χ^2/NDF : 1216.1/22

Left: 0.012 ± 0.001 χ^2/NDF : 2176.2/47

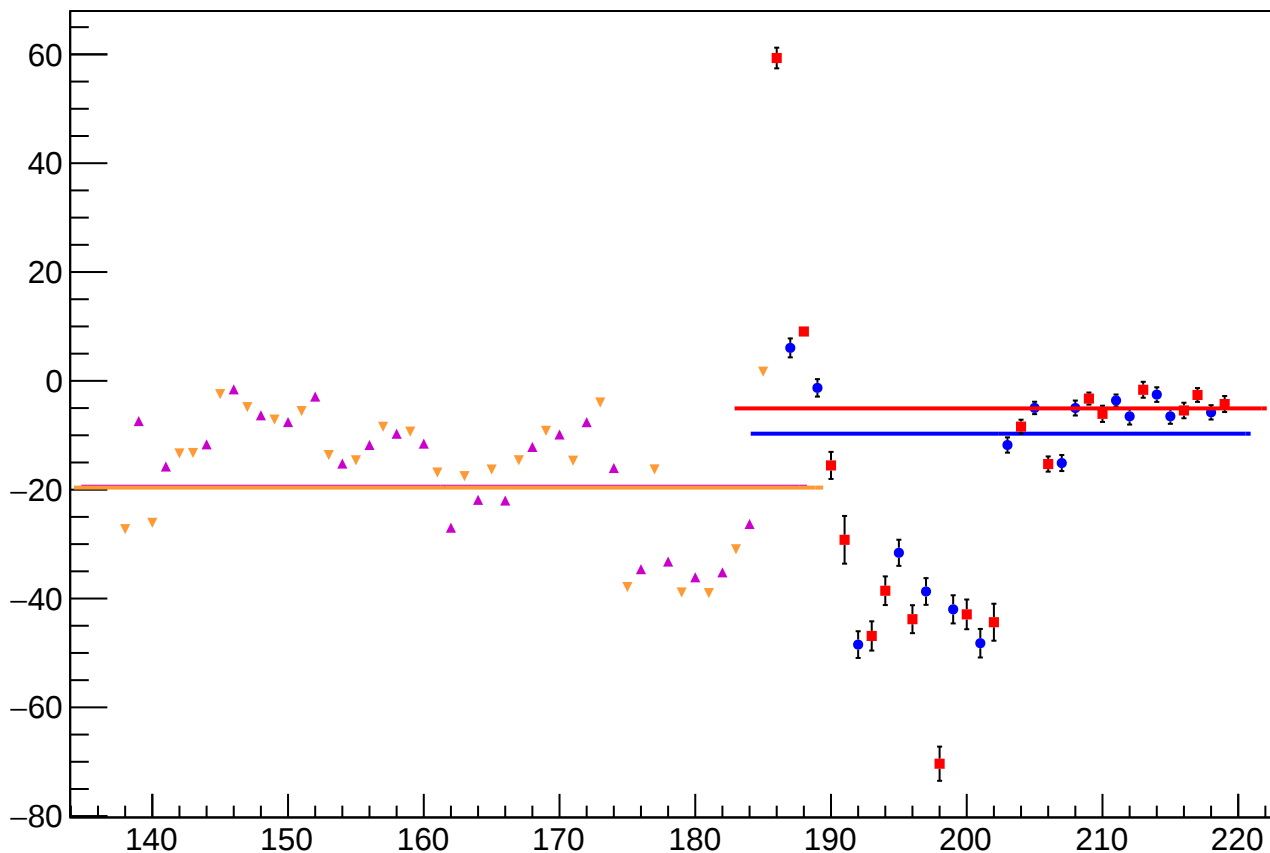
Right: 0.086 ± 0.004 χ^2/NDF : 4077.2/69

In: 0.014 ± 0.001 χ^2/NDF : 3257.7/55

Out: 0.019 ± 0.001 χ^2/NDF : 3298.3/61

All: 0.016 ± 0.001 χ^2/NDF : 6561.7/117

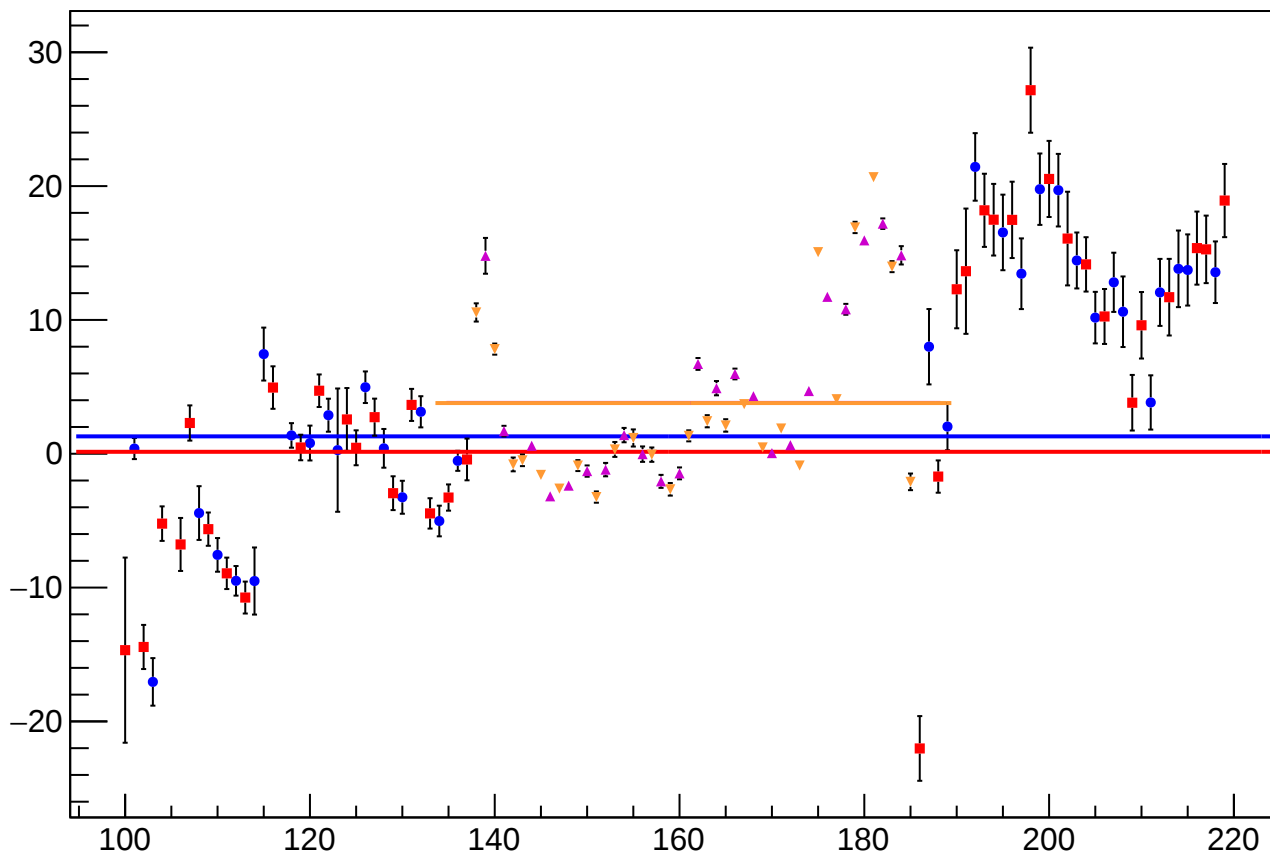
reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -9.707 ± 0.386 $\chi^2/\text{NDF}: 1074.9/15$
 Left Out: -19.612 ± 0.103 $\chi^2/\text{NDF}: 15761.3/24$
 Right Out: -5.061 ± 0.376 $\chi^2/\text{NDF}: 2935.2/17$
 Left In: -19.450 ± 0.105 $\chi^2/\text{NDF}: 12283.1/22$

Left: -19.533 ± 0.074 $\chi^2/\text{NDF}: 28045.6/47$
 Right: -7.322 ± 0.269 $\chi^2/\text{NDF}: 4084.5/33$
 In: -18.779 ± 0.101 $\chi^2/\text{NDF}: 13950.8/38$
 Out: -18.593 ± 0.100 $\chi^2/\text{NDF}: 20088.3/42$
 All: -18.684 ± 0.071 $\chi^2/\text{NDF}: 34040.8/81$

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.299 ± 0.263 $\chi^2/\text{NDF}: 757.2/32$

Left Out: 3.788 ± 0.082 $\chi^2/\text{NDF}: 7150.5/24$

Right Out: 0.146 ± 0.267 $\chi^2/\text{NDF}: 949.8/36$

Left In: 3.799 ± 0.084 $\chi^2/\text{NDF}: 5517.0/22$

Left: 3.793 ± 0.059 $\chi^2/\text{NDF}: 12667.5/47$

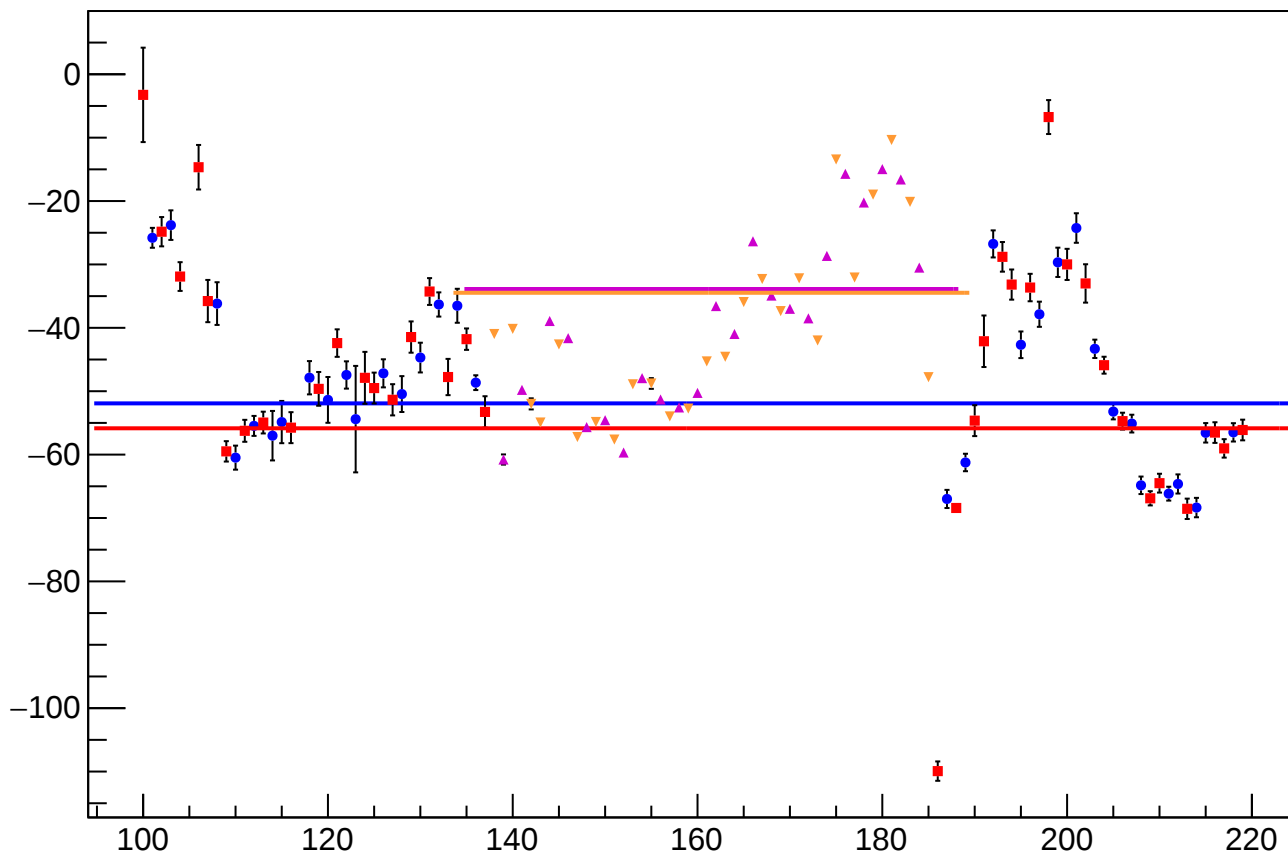
Right: 0.732 ± 0.187 $\chi^2/\text{NDF}: 1716.5/69$

In: 3.569 ± 0.080 $\chi^2/\text{NDF}: 6356.5/55$

Out: 3.473 ± 0.078 $\chi^2/\text{NDF}: 8270.6/61$

All: 3.520 ± 0.056 $\chi^2/\text{NDF}: 14627.8/117$

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -51.918 ± 0.309 χ^2/NDF : 1703.1/32

Left Out: -34.471 ± 0.104 χ^2/NDF : 20196.3/24

Right Out: -55.850 ± 0.297 χ^2/NDF : 3485.7/36

Left In: -33.875 ± 0.105 χ^2/NDF : 17638.7/22

Left: -34.177 ± 0.074 χ^2/NDF : 37851.2/47

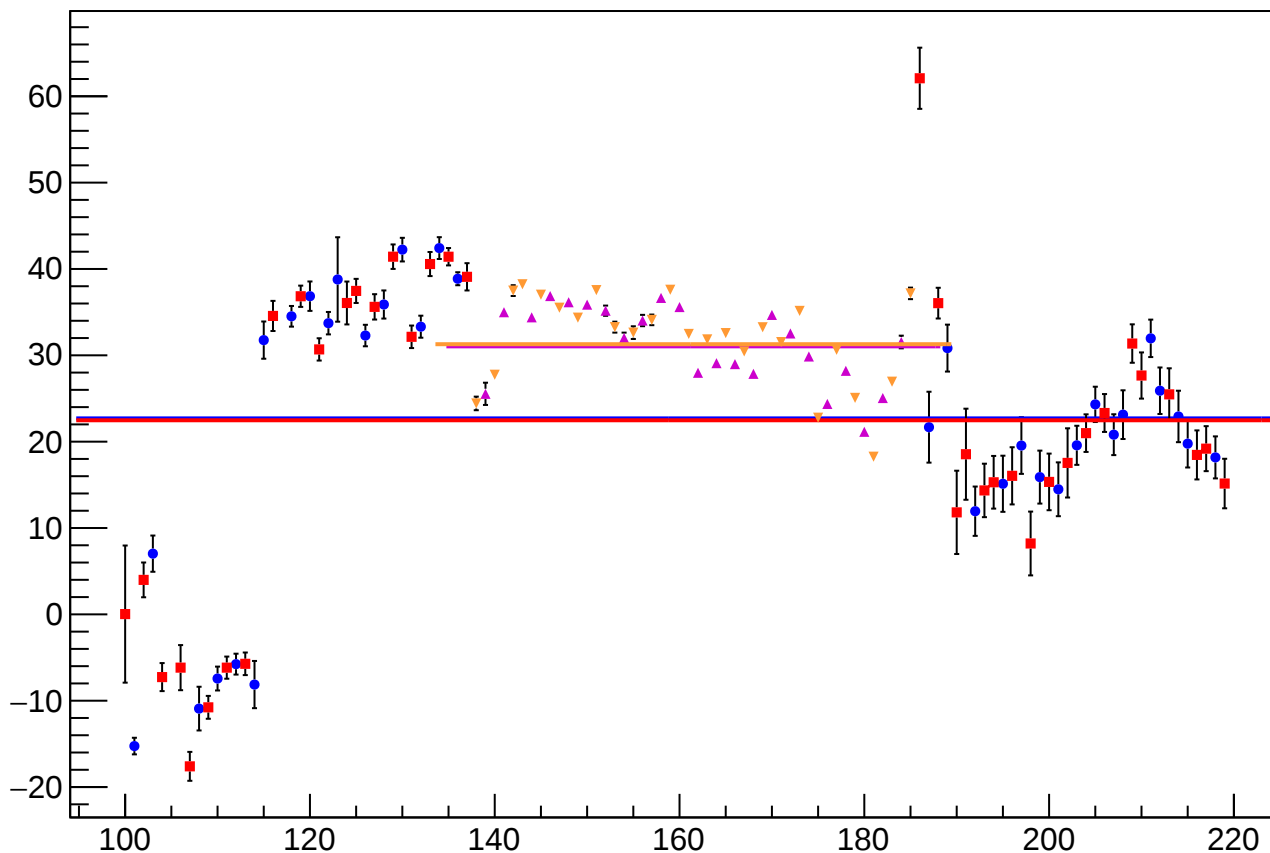
Right: -53.961 ± 0.214 χ^2/NDF : 5273.0/69

In: -35.754 ± 0.100 χ^2/NDF : 22400.7/55

Out: -36.804 ± 0.098 χ^2/NDF : 28297.5/61

All: -36.287 ± 0.070 χ^2/NDF : 50754.5/117

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.695 $\pm$ 0.295 χ^2 /NDF: 4386.5/32

Left Out: 31.286 $\pm$ 0.092 χ^2 /NDF:3345.7/24

Right Out: 22.478 $\pm$ 0.303 χ^2 /NDF: 4288.6/36

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

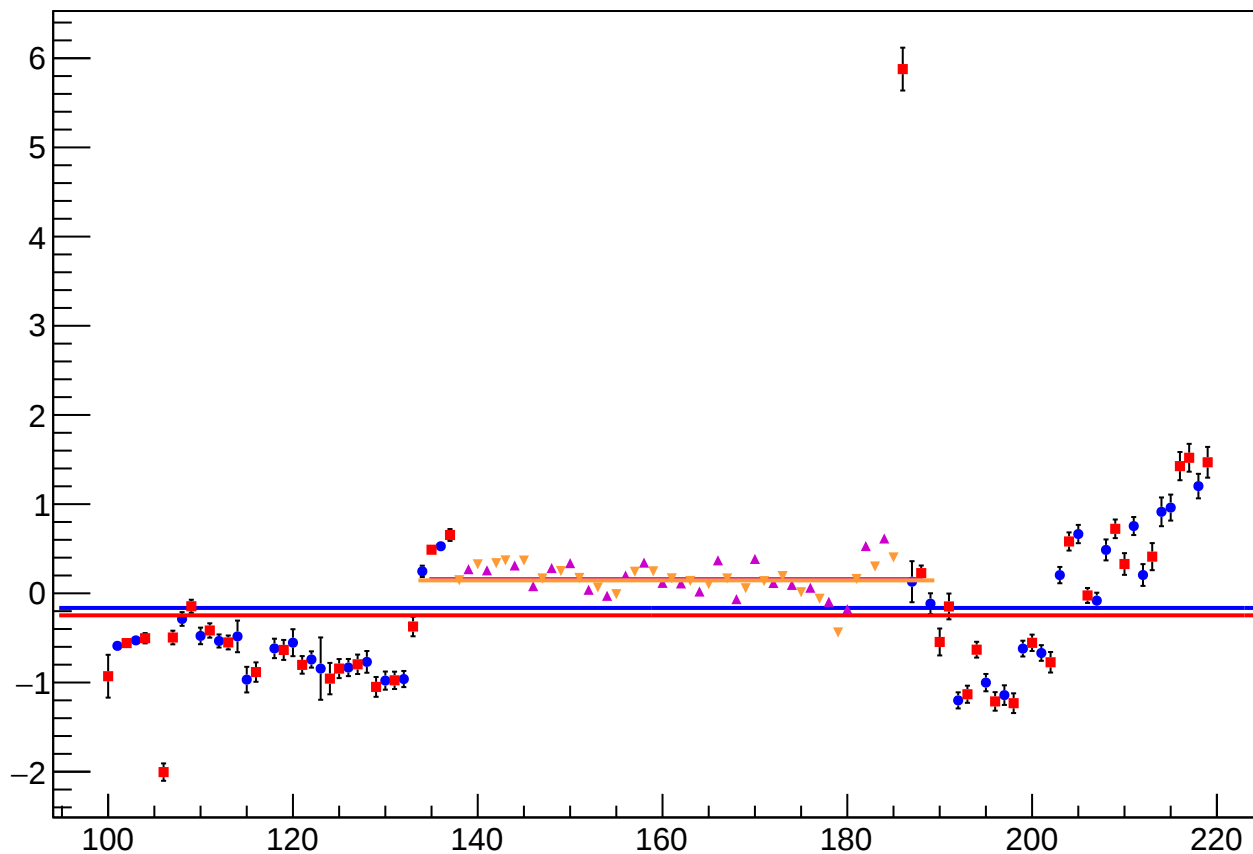
Right: 22.589 $\pm$ 0.211 χ^2 /NDF: 8675.4/69

In: 30.268 $\pm$ 0.090 χ^2 /NDF:7591.8/55

Out: 30.537 $\pm$ 0.088 χ^2 /NDF:8407.4/61

All: 30.405 $\pm$ 0.063 χ^2 /NDF: 16003.8/117

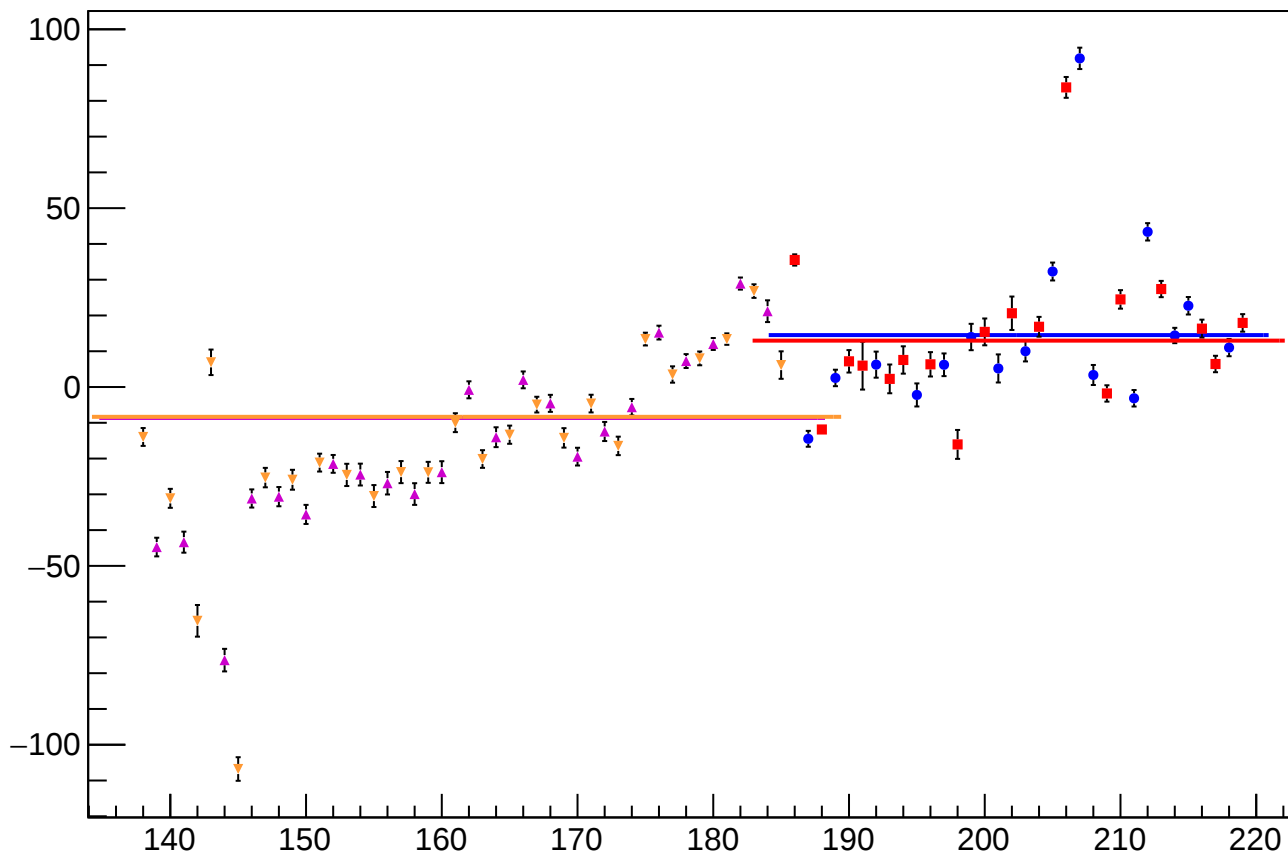
reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.164 ± 0.015 $\chi^2/\text{NDF}: 1750.3/32$
 Left Out: 0.145 ± 0.004 $\chi^2/\text{NDF}: 1579.6/24$
 Right Out: -0.247 ± 0.015 $\chi^2/\text{NDF}: 2718.8/36$
 Left In: 0.159 ± 0.004 $\chi^2/\text{NDF}: 2009.8/22$

Left: 0.152 ± 0.003 $\chi^2/\text{NDF}: 3594.3/47$
 Right: -0.205 ± 0.011 $\chi^2/\text{NDF}: 4484.5/69$
 In: 0.134 ± 0.004 $\chi^2/\text{NDF}: 4196.1/55$
 Out: 0.117 ± 0.004 $\chi^2/\text{NDF}: 4928.6/61$
 All: 0.125 ± 0.003 $\chi^2/\text{NDF}: 9133.4/117$

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 14.515 ± 0.669 $\chi^2/\text{NDF}: 1194.8/15$

Left Out: -8.332 ± 0.500 $\chi^2/\text{NDF}: 2226.2/24$

Right Out: 12.968 ± 0.590 $\chi^2/\text{NDF}: 1388.6/17$

Left In: -8.652 ± 0.507 $\chi^2/\text{NDF}: 2223.8/22$

Left: -8.490 ± 0.356 $\chi^2/\text{NDF}: 4450.2/47$

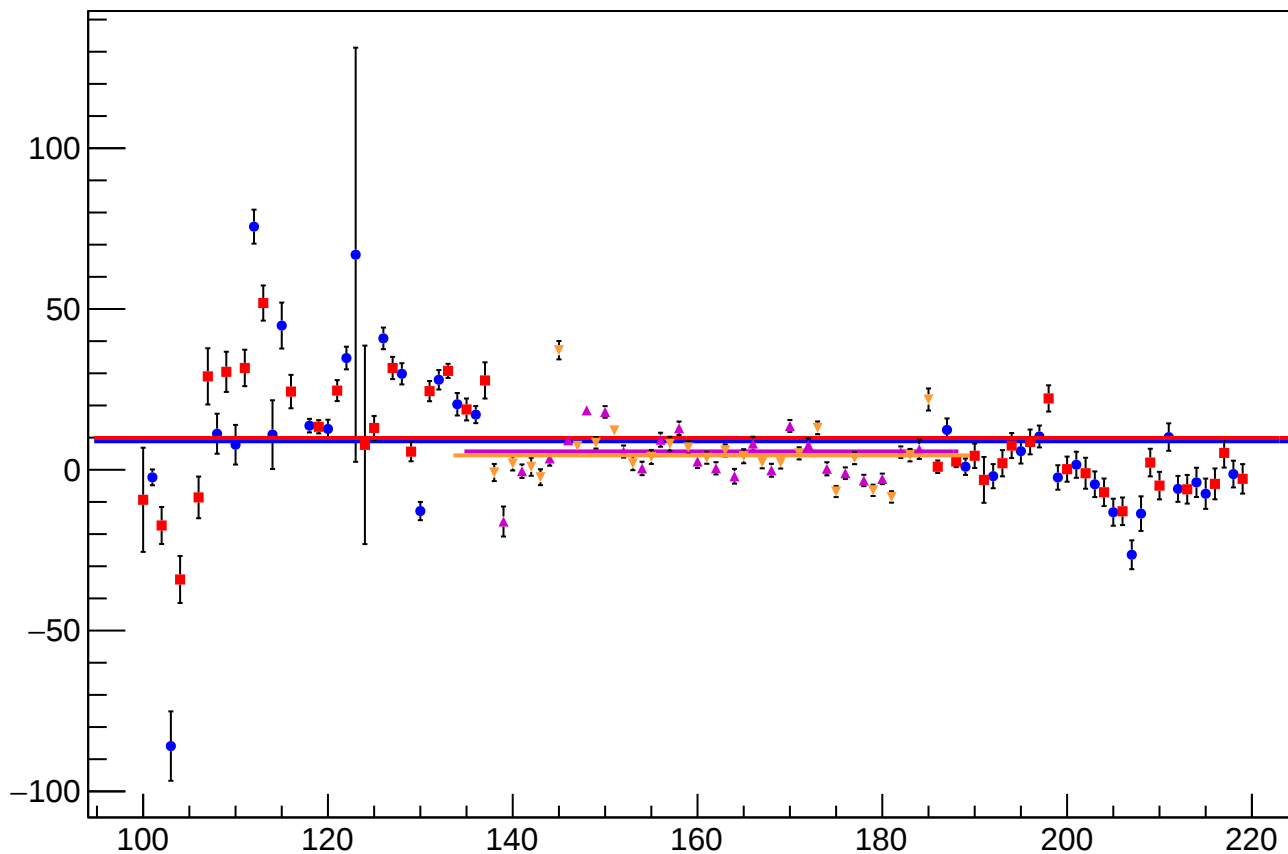
Right: 13.646 ± 0.442 $\chi^2/\text{NDF}: 2586.4/33$

In: -0.189 ± 0.404 $\chi^2/\text{NDF}: 4180.8/38$

Out: 0.563 ± 0.381 $\chi^2/\text{NDF}: 4373.9/42$

All: 0.209 ± 0.277 $\chi^2/\text{NDF}: 8556.5/81$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.867 ± 0.644 χ^2/NDF : 784.3/32

Left Out: 4.484 ± 0.392 χ^2/NDF : 371.9/24

Right Out: 9.883 ± 0.609 χ^2/NDF : 517.9/36

Left In: 5.705 ± 0.404 χ^2/NDF : 324.1/22

Left: 5.076 ± 0.281 χ^2/NDF : 700.6/47

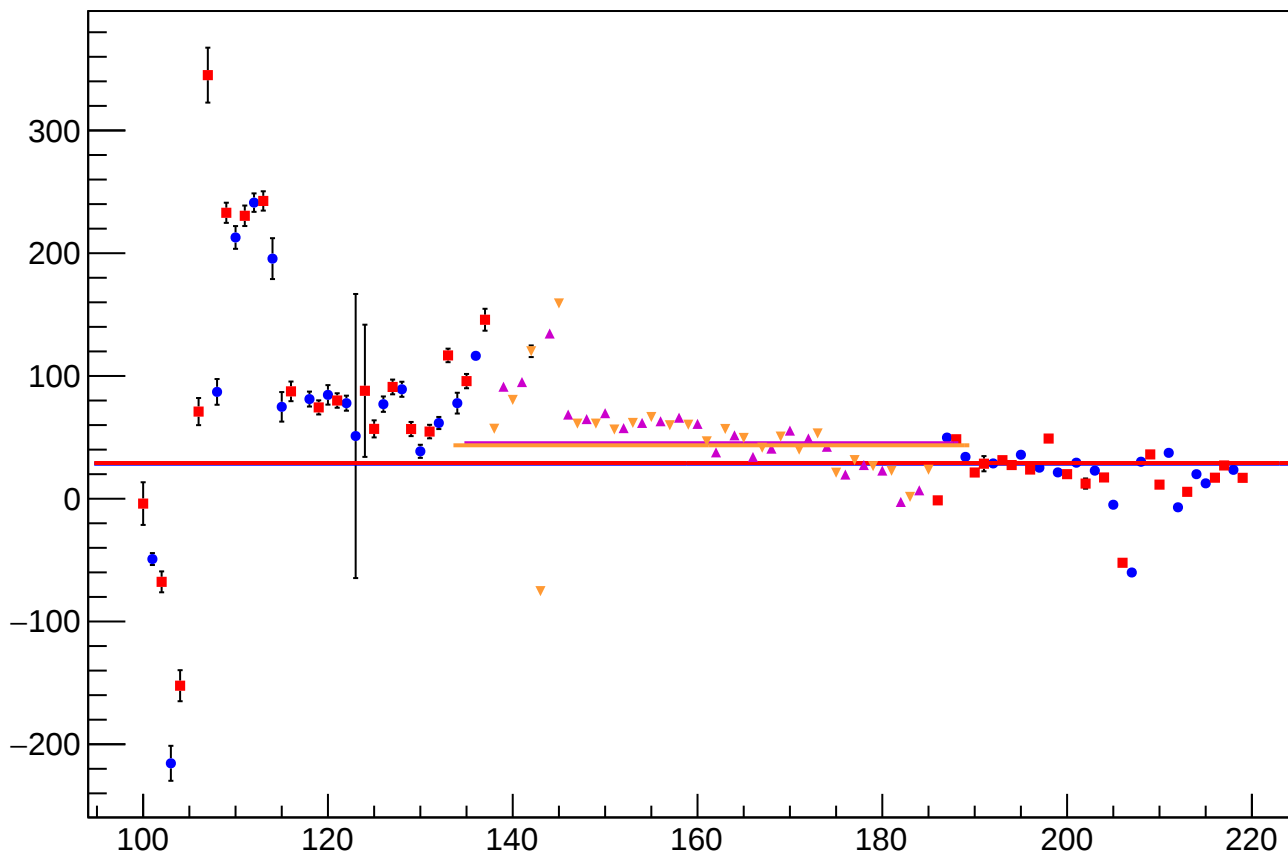
Right: 9.404 ± 0.443 χ^2/NDF : 1303.5/69

In: 6.598 ± 0.342 χ^2/NDF : 1125.7/55

Out: 6.067 ± 0.330 χ^2/NDF : 945.3/61

All: 6.322 ± 0.237 χ^2/NDF : 2072.2/117

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 28.526 $\pm$ 0.597 χ^2 /NDF: 4350.2/32

Left Out: 43.524 $\pm$ 0.498 χ^2 /NDF:3830.7/24

Right Out: 29.097 $\pm$ 0.514 χ^2 /NDF: 5487.3/36

Left In: 45.211 $\pm$ 0.504 χ^2 /NDF:3048.5/22

Left: 44.358 $\pm$ 0.354 χ^2 /NDF: 6884.8/47

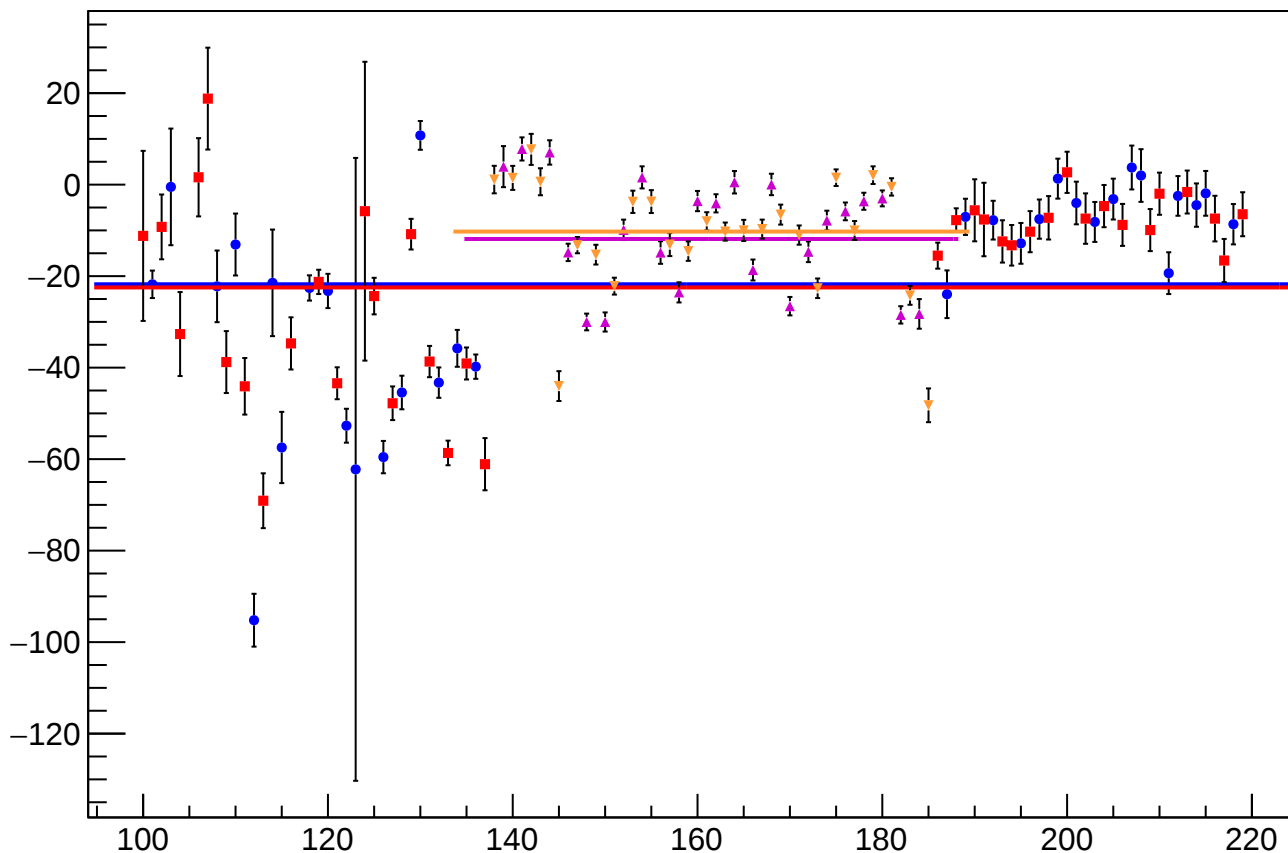
Right: 28.854 $\pm$ 0.390 χ^2 /NDF: 9837.9/69

In: 38.265 $\pm$ 0.385 χ^2 /NDF:7854.4/55

Out: 36.537 $\pm$ 0.358 χ^2 /NDF:9723.8/61

All: 37.337 $\pm$ 0.262 χ^2 /NDF: 17589.0/117

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.778 ± 0.744 $\chi^2/\text{NDF}: 833.6/32$

Left Out: -10.257 ± 0.444 $\chi^2/\text{NDF}: 552.4/24$

Right Out: -22.474 ± 0.726 $\chi^2/\text{NDF}: 683.6/36$

Left In: -11.877 ± 0.456 $\chi^2/\text{NDF}: 666.2/22$

Left: -11.046 ± 0.318 $\chi^2/\text{NDF}: 1225.1/47$

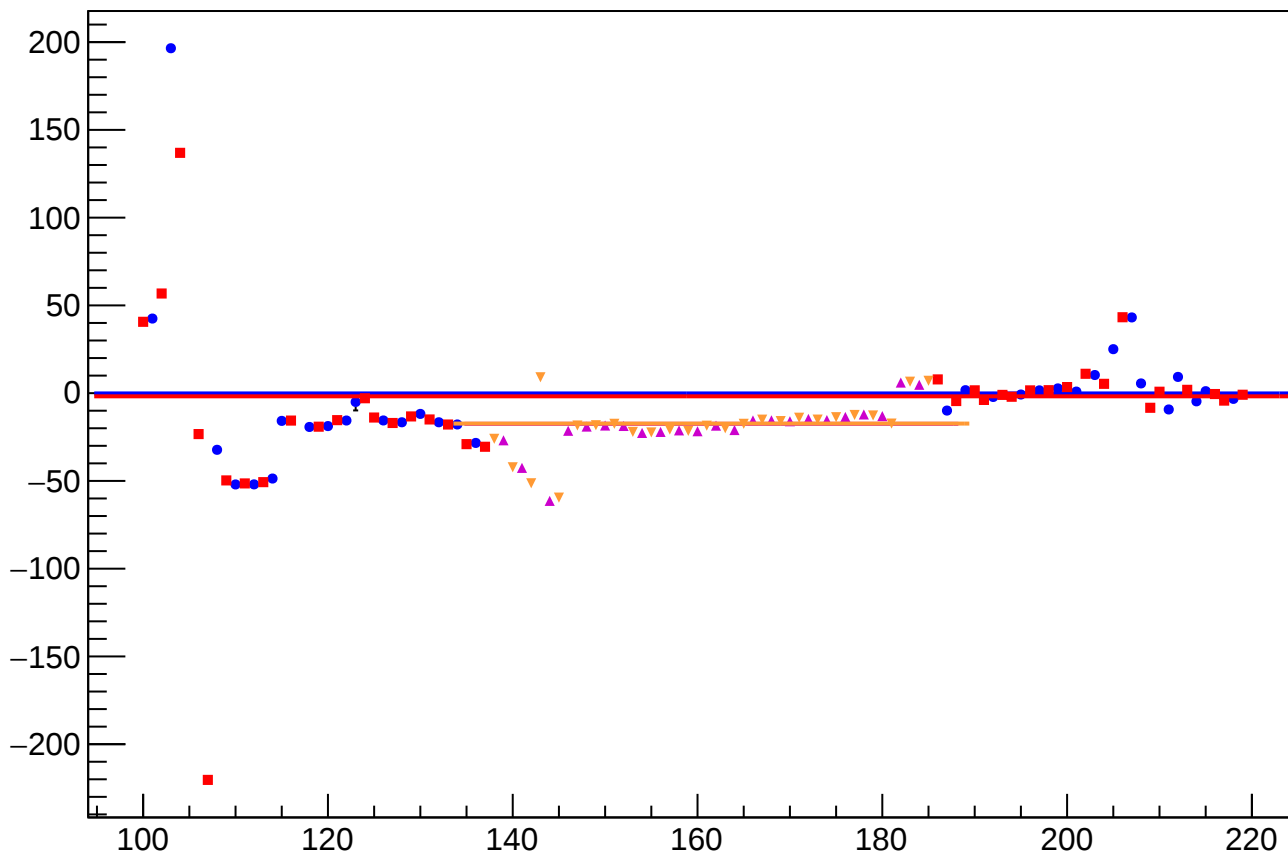
Right: -22.134 ± 0.520 $\chi^2/\text{NDF}: 1517.6/69$

In: -14.583 ± 0.389 $\chi^2/\text{NDF}: 1628.6/55$

Out: -13.585 ± 0.379 $\chi^2/\text{NDF}: 1442.0/61$

All: -14.071 ± 0.271 $\chi^2/\text{NDF}: 3074.0/117$

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.156 ± 0.035 χ^2/NDF : 678471.9/32

Left Out: -17.333 ± 0.020 χ^2/NDF : 325197.2/24

Right Out: -1.804 ± 0.034 χ^2/NDF : 672422.7/36

Left In: -17.491 ± 0.021 χ^2/NDF : 259215.8/22

Left: -17.411 ± 0.015 χ^2/NDF : 584442.6/47

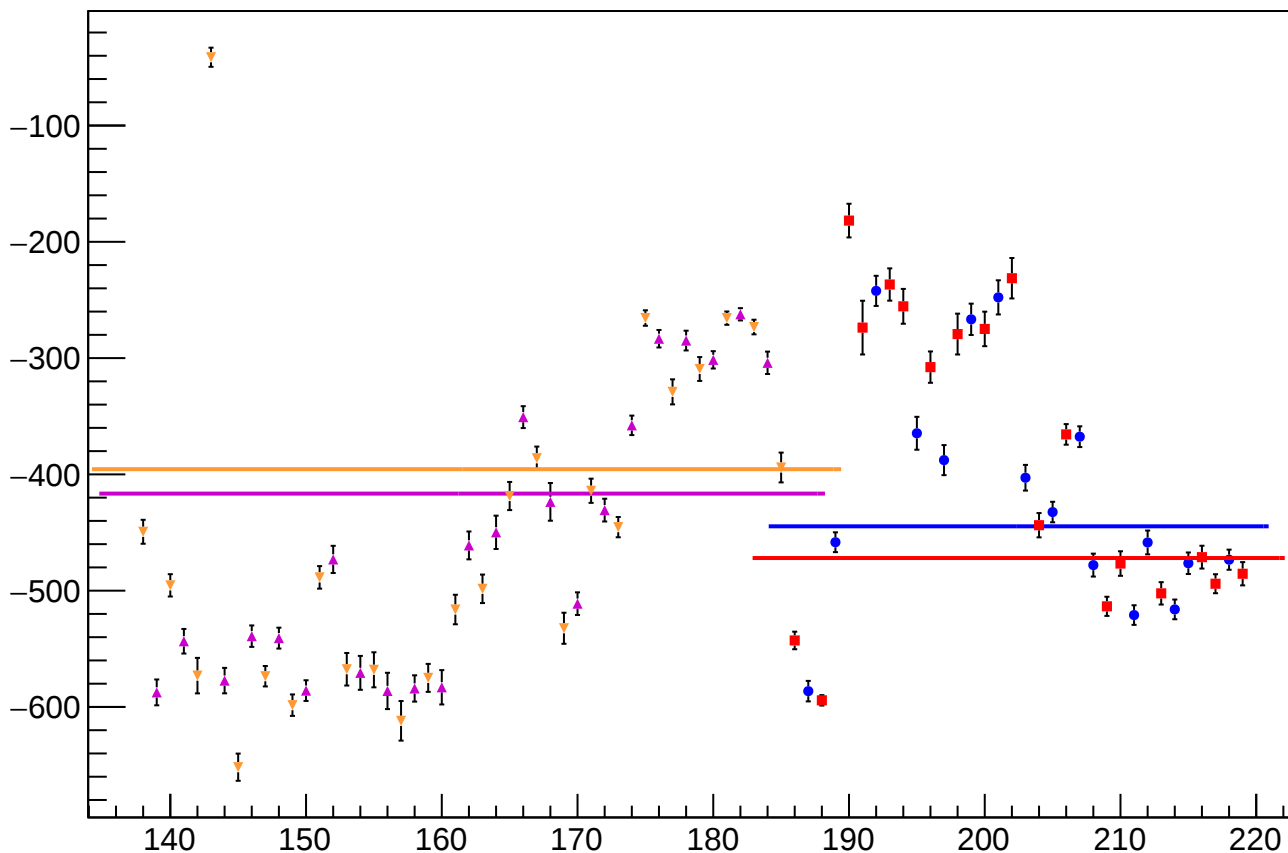
Right: -1.003 ± 0.025 χ^2/NDF : 1352020.7/69

In: -13.041 ± 0.018 χ^2/NDF : 1118135.2/55

Out: -13.263 ± 0.018 χ^2/NDF : 1149467.8/61

All: -13.154 ± 0.012 χ^2/NDF : 2267681.8/117

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -444.660 $\pm$ 2.500 χ^2/NDF : 1190.9/15

Left Out: -395.547 $\pm$ 1.953 χ^2/NDF :5946.5/24

Right Out: -471.926 $\pm$ 2.283 χ^2/NDF : 2636.0/17

Left In: -416.521 $\pm$ 2.005 χ^2/NDF :3917.0/22

Left: -405.762 $\pm$ 1.399 χ^2/NDF : 9919.7/47

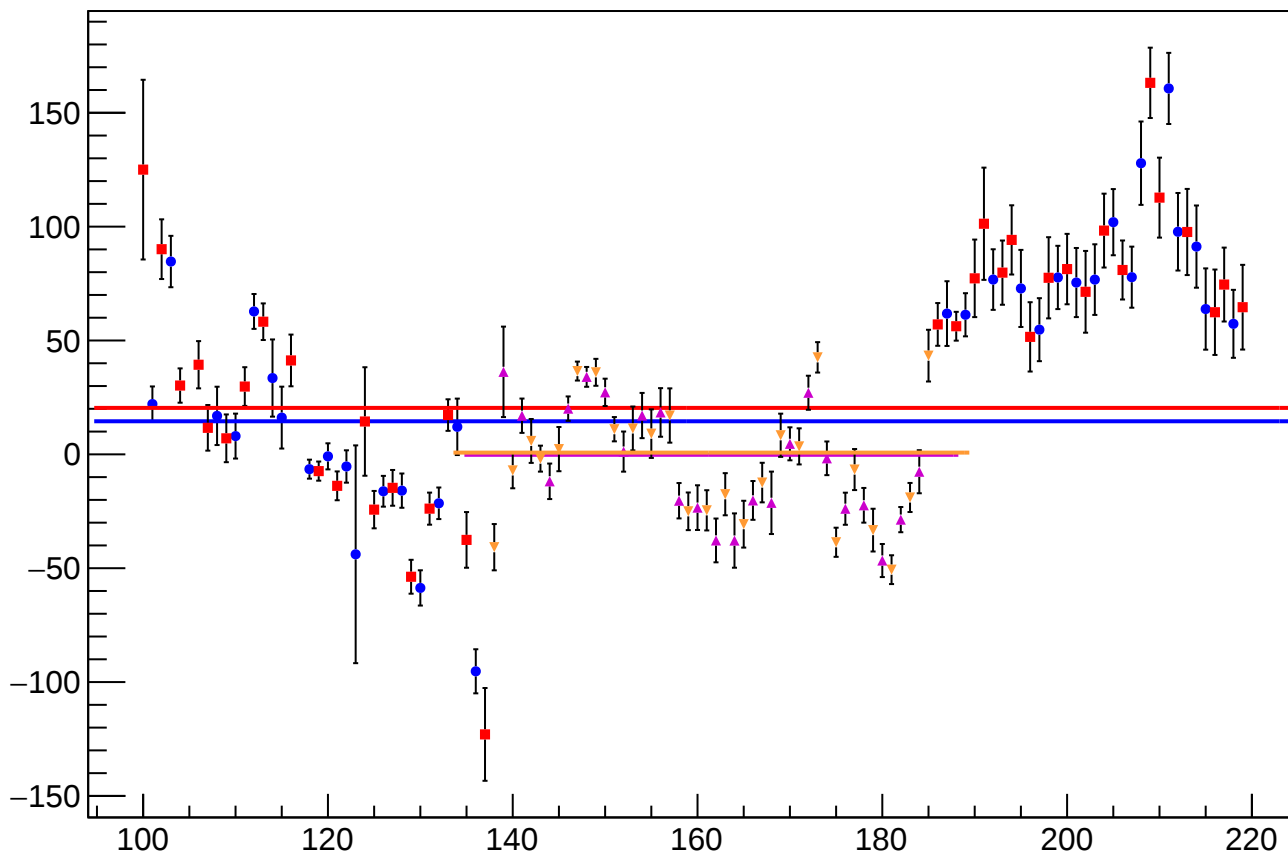
Right: -459.526 $\pm$ 1.686 χ^2/NDF : 3891.7/33

In: -427.536 $\pm$ 1.564 χ^2/NDF :5185.0/38

Out: -427.833 $\pm$ 1.484 χ^2/NDF :9228.7/42

All: -427.693 $\pm$ 1.077 χ^2/NDF : 14413.8/81

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.527 $\pm$ 1.702 χ^2 /NDF: 777.7/32

Left Out: 0.767 $\pm$ 1.503 χ^2 /NDF:350.1/24

Right Out: 20.400 $\pm$ 1.650 χ^2 /NDF: 748.2/36

Left In: -0.202 $\pm$ 1.575 χ^2 /NDF:260.8/22

Left: 0.305 $\pm$ 1.087 χ^2 /NDF: 611.1/47

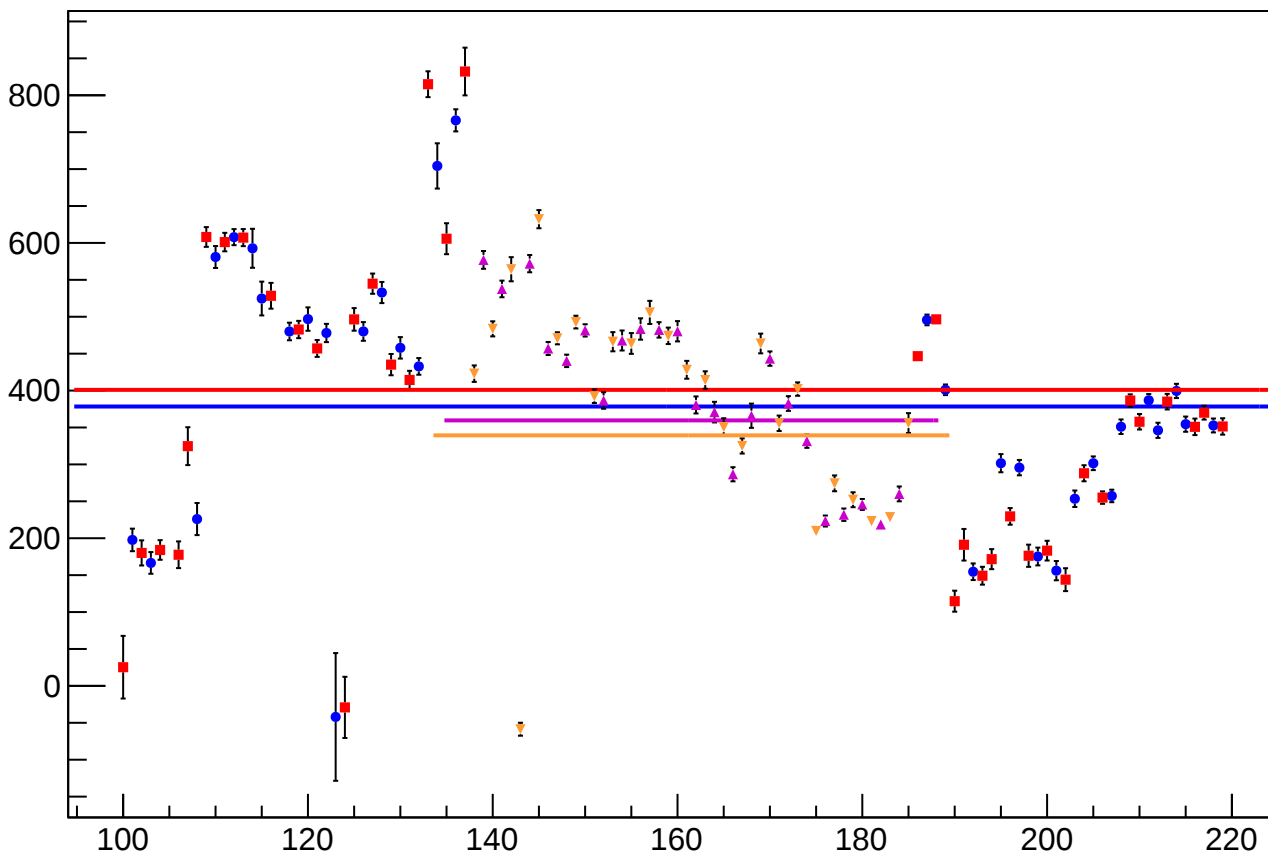
Right: 17.555 $\pm$ 1.185 χ^2 /NDF: 1532.1/69

In: 6.592 $\pm$ 1.156 χ^2 /NDF:1078.9/55

Out: 9.667 $\pm$ 1.111 χ^2 /NDF:1175.7/61

All: 8.191 $\pm$ 0.801 χ^2 /NDF: 2258.2/117

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 378.410 ± 2.009 $\chi^2/\text{NDF}: 4142.8/32$

Left Out: 339.355 ± 1.963 $\chi^2/\text{NDF}: 5502.5/24$

Right Out: 400.980 ± 1.802 $\chi^2/\text{NDF}: 6165.0/36$

Left In: 359.609 ± 2.003 $\chi^2/\text{NDF}: 3398.5/22$

Left: 349.278 ± 1.402 $\chi^2/\text{NDF}: 8953.2/47$

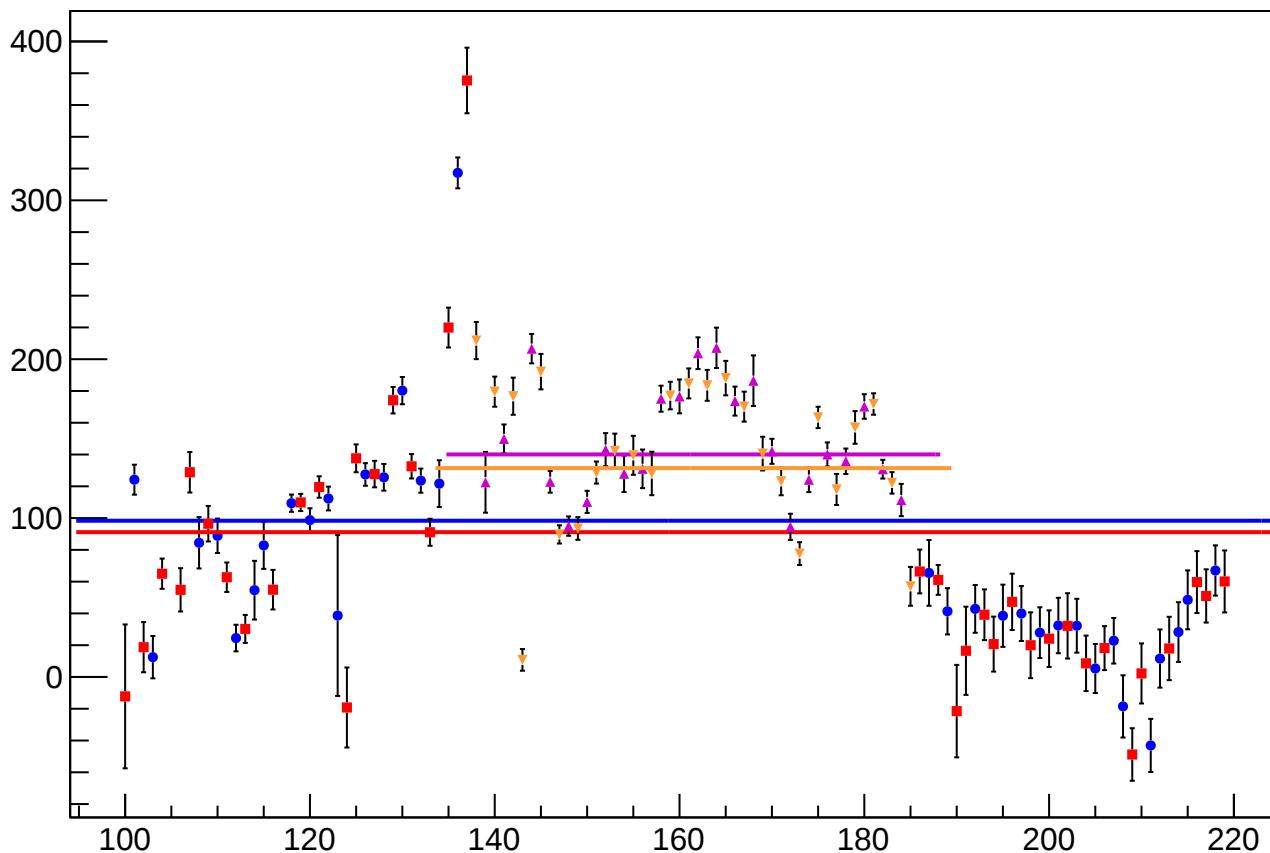
Right: 390.917 ± 1.342 $\chi^2/\text{NDF}: 10377.8/69$

In: 368.980 ± 1.418 $\chi^2/\text{NDF}: 7585.3/55$

Out: 372.789 ± 1.327 $\chi^2/\text{NDF}: 12202.4/61$

All: 371.010 ± 0.969 $\chi^2/\text{NDF}: 19791.5/117$

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 98.336 ± 1.972 $\chi^2/\text{NDF}: 1102.8/32$

Left Out: 131.464 ± 1.728 $\chi^2/\text{NDF}: 809.3/24$

Right Out: 91.156 ± 1.930 $\chi^2/\text{NDF}: 906.3/36$

Left In: 140.069 ± 1.795 $\chi^2/\text{NDF}: 316.5/22$

Left: 135.602 ± 1.245 $\chi^2/\text{NDF}: 1137.8/47$

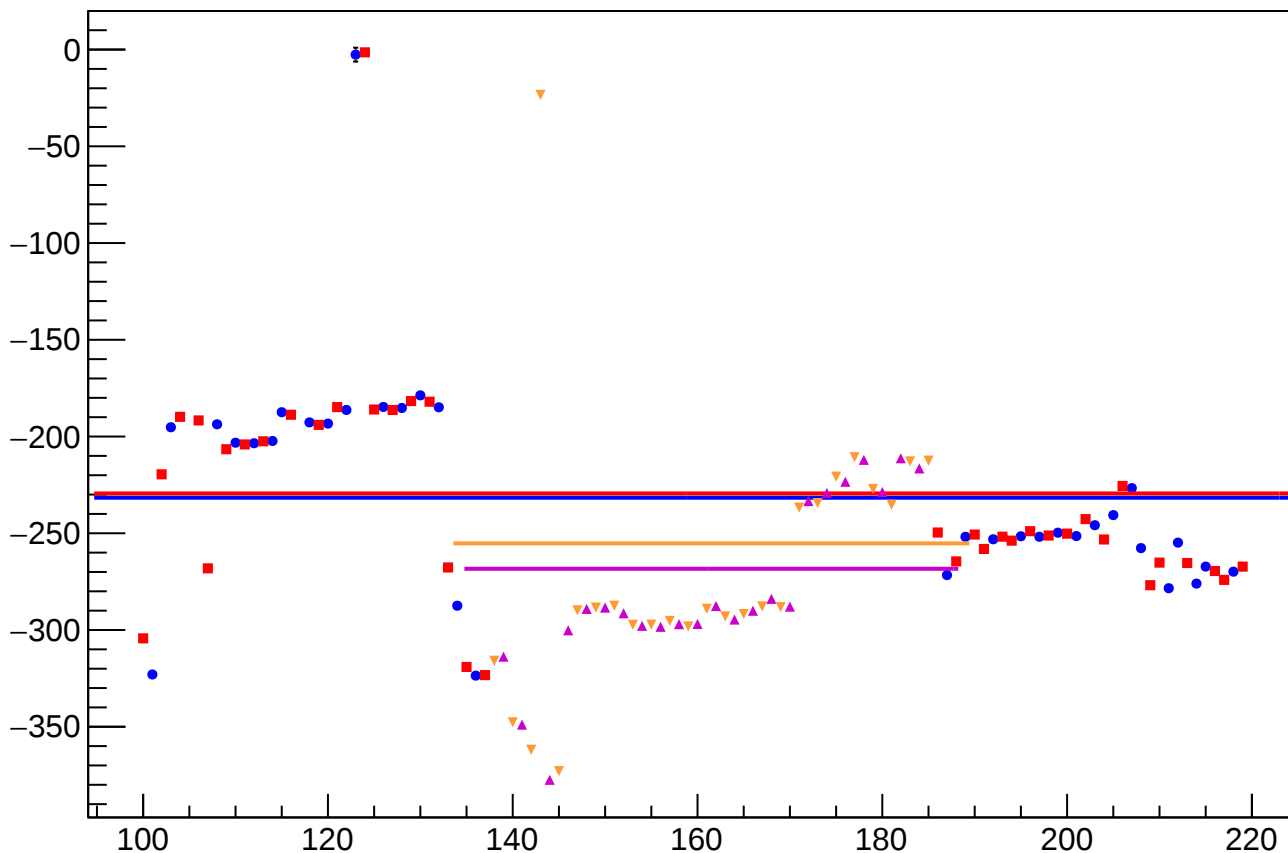
Right: 94.668 ± 1.379 $\chi^2/\text{NDF}: 2015.9/69$

In: 121.161 ± 1.328 $\chi^2/\text{NDF}: 1664.3/55$

Out: 113.533 ± 1.287 $\chi^2/\text{NDF}: 1957.8/61$

All: 117.229 ± 0.924 $\chi^2/\text{NDF}: 3639.0/117$

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -231.620+/-0.105 χ^2/NDF : 178479.4/32

Left Out: -255.232+/-0.082 χ^2/NDF : 728016.7/24

Right Out: -229.415+/-0.100 χ^2/NDF : 161045.5/36

Left In: -268.353+/-0.084 χ^2/NDF : 262479.3/22

Left: -261.661+/-0.059 χ^2/NDF : 1003051.2/47

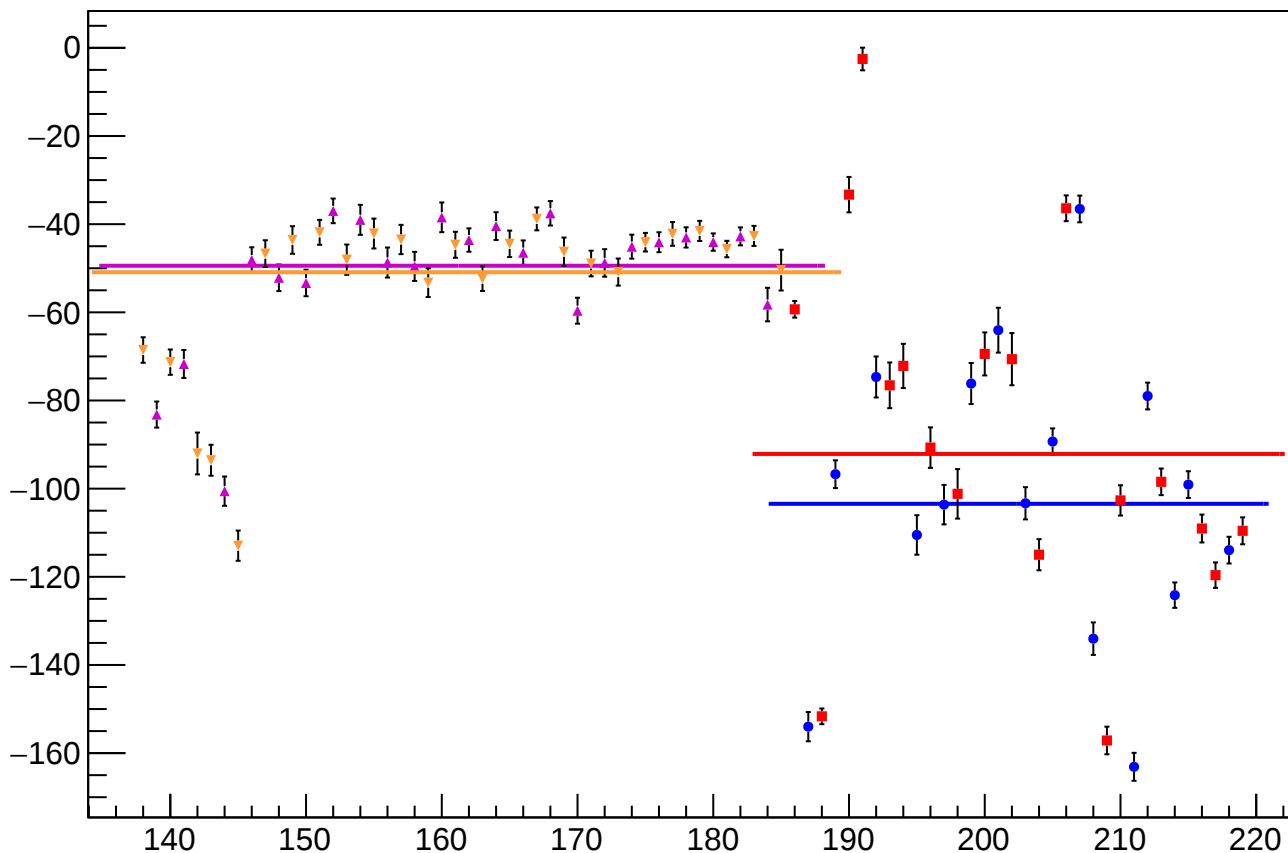
Right: -230.468+/-0.072 χ^2/NDF : 339756.9/69

In: -254.028+/-0.065 χ^2/NDF : 516205.5/55

Out: -244.860+/-0.063 χ^2/NDF : 928922.7/61

All: -249.308+/-0.045 χ^2/NDF : 1455274.5/111

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -103.439 ± 0.865 $\chi^2/\text{NDF}: 1434.6/15$

Left Out: -50.897 ± 0.573 $\chi^2/\text{NDF}: 761.1/24$

Right Out: -92.126 ± 0.734 $\chi^2/\text{NDF}: 3914.8/17$

Left In: -49.432 ± 0.584 $\chi^2/\text{NDF}: 543.4/22$

Left: -50.179 ± 0.409 $\chi^2/\text{NDF}: 1307.8/47$

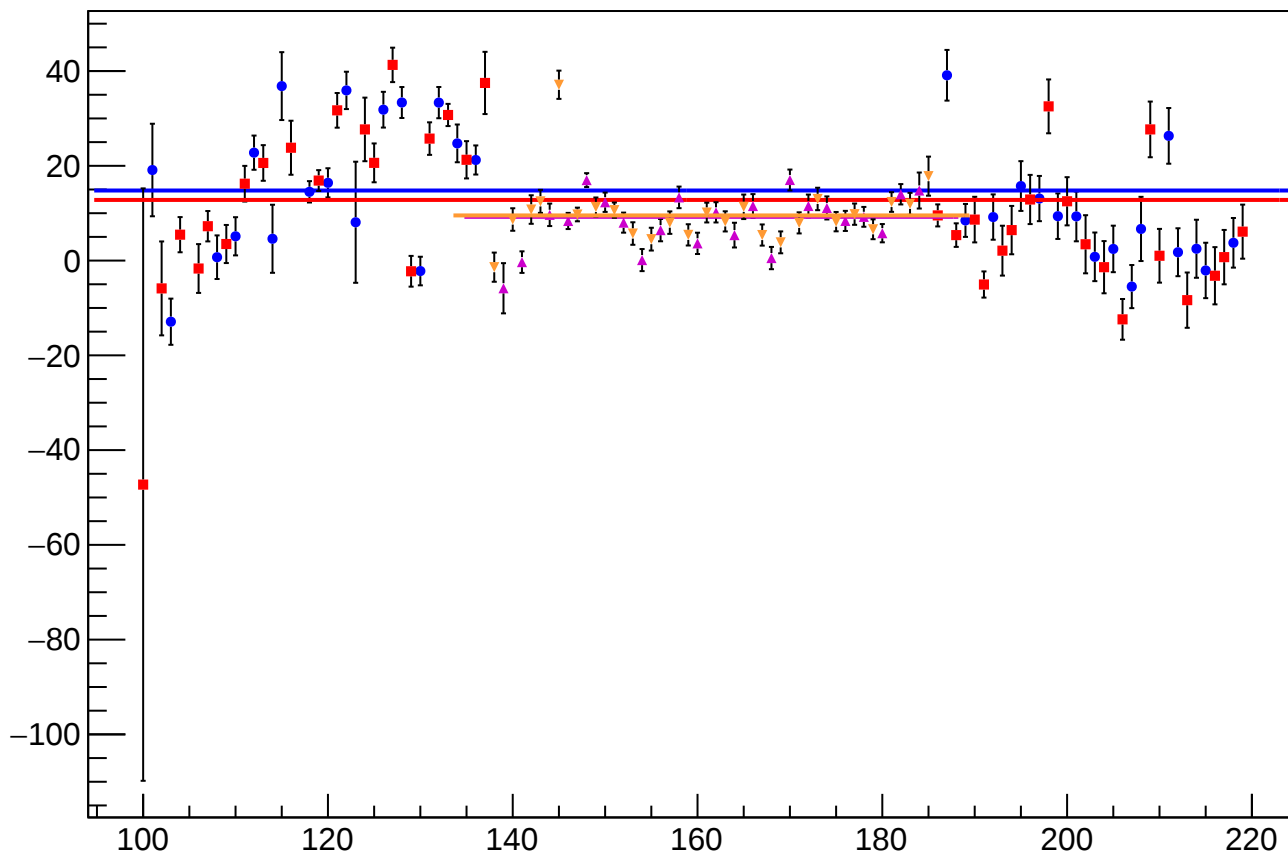
Right: -96.862 ± 0.560 $\chi^2/\text{NDF}: 5448.9/33$

In: -66.341 ± 0.484 $\chi^2/\text{NDF}: 4656.4/38$

Out: -66.505 ± 0.452 $\chi^2/\text{NDF}: 6637.5/42$

All: -66.429 ± 0.330 $\chi^2/\text{NDF}: 11294.0/81$

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.791 ± 0.742 χ^2/NDF : 310.2/32

Left Out: 9.530 ± 0.446 χ^2/NDF : 134.4/24

Right Out: 12.801 ± 0.655 χ^2/NDF : 398.0/36

Left In: 9.231 ± 0.462 χ^2/NDF : 124.0/22

Left: 9.386 ± 0.321 χ^2/NDF : 258.5/47

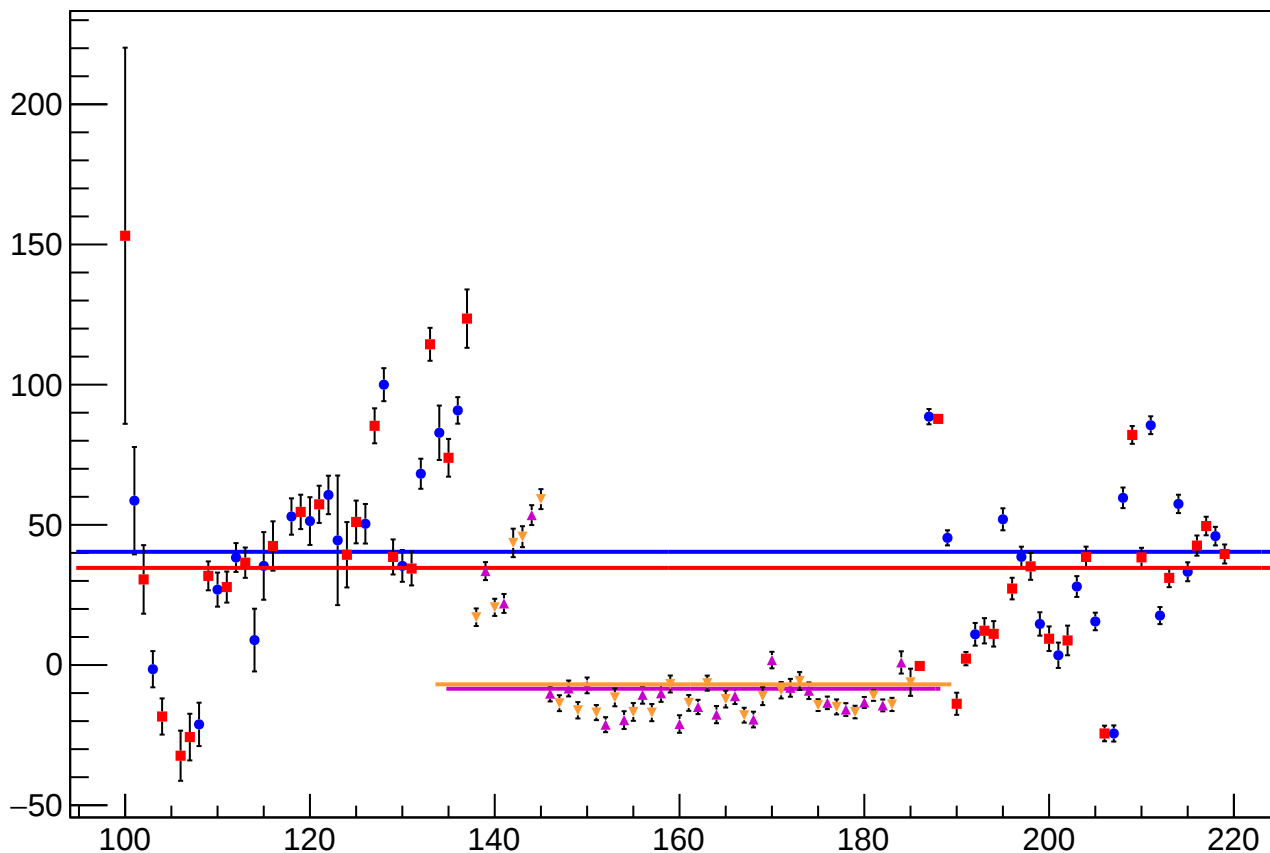
Right: 13.672 ± 0.491 χ^2/NDF : 712.3/69

In: 10.783 ± 0.392 χ^2/NDF : 474.6/55

Out: 10.567 ± 0.369 χ^2/NDF : 549.4/61

All: 10.668 ± 0.269 χ^2/NDF : 1024.2/117

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 40.384 ± 0.749 $\chi^2/\text{NDF}: 1780.7/32$

Left Out: -6.888 ± 0.571 $\chi^2/\text{NDF}: 914.2/24$

Right Out: 34.645 ± 0.622 $\chi^2/\text{NDF}: 3626.6/36$

Left In: -8.451 ± 0.580 $\chi^2/\text{NDF}: 688.9/22$

Left: -7.658 ± 0.407 $\chi^2/\text{NDF}: 1606.8/47$

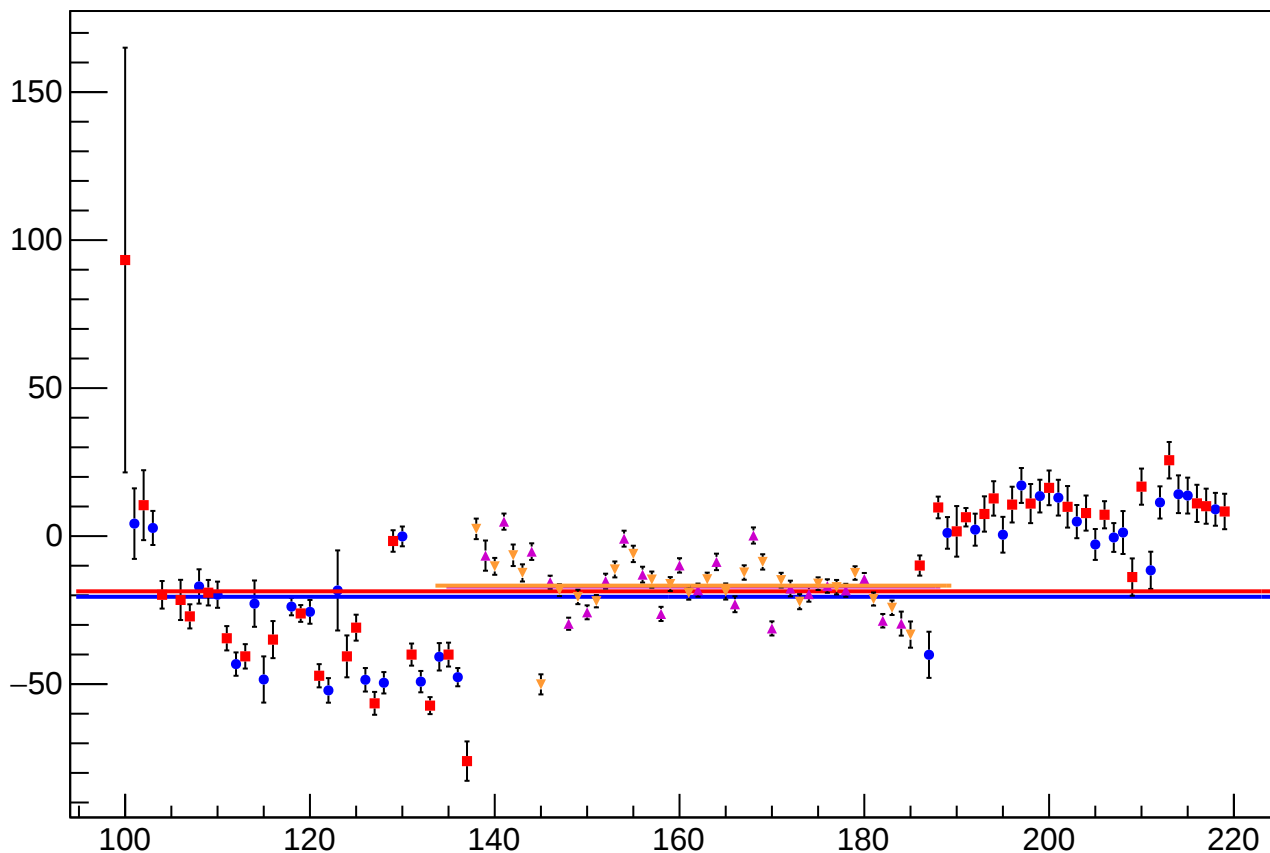
Right: 36.988 ± 0.478 $\chi^2/\text{NDF}: 5442.1/69$

In: 9.853 ± 0.458 $\chi^2/\text{NDF}: 5128.5/55$

Out: 12.104 ± 0.421 $\chi^2/\text{NDF}: 6960.3/61$

All: 11.075 ± 0.310 $\chi^2/\text{NDF}: 12101.9/117$

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -20.502 ± 0.848 χ^2/NDF : 785.2/32

Left Out: -16.733 ± 0.507 χ^2/NDF : 223.3/24

Right Out: -18.654 ± 0.770 χ^2/NDF : 1058.8/36

Left In: -17.023 ± 0.522 χ^2/NDF : 327.6/22

Left: -16.874 ± 0.364 χ^2/NDF : 551.0/47

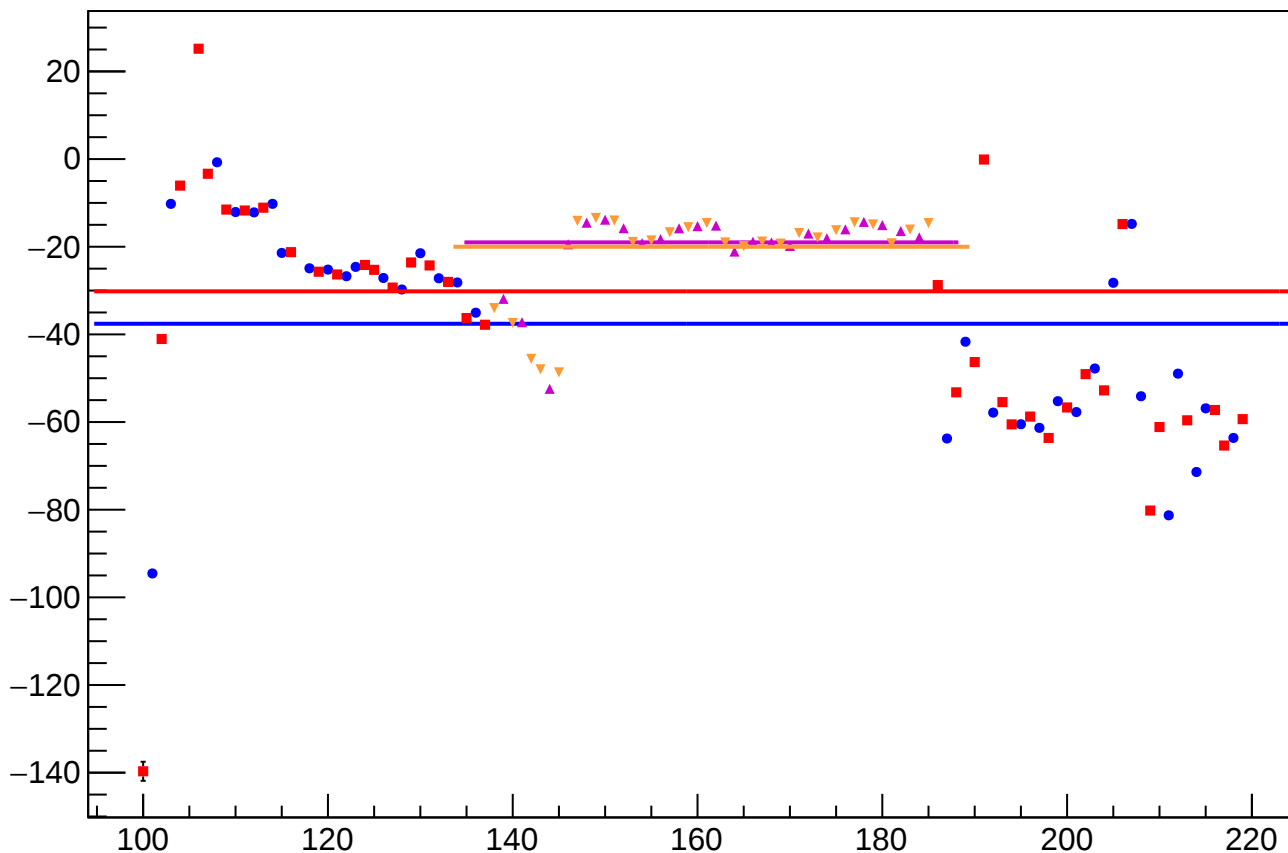
Right: -19.489 ± 0.570 χ^2/NDF : 1846.6/69

In: -17.978 ± 0.444 χ^2/NDF : 1125.0/55

Out: -17.313 ± 0.423 χ^2/NDF : 1286.4/61

All: -17.629 ± 0.307 χ^2/NDF : 2412.6/117

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -37.574+/-0.040 χ^2/NDF : 265874.1/32

Left Out: -20.006+/-0.023 χ^2/NDF :145623.8/24

Right Out: -30.179+/-0.036 χ^2/NDF : 492513.6/36

Left In: -19.007+/-0.024 χ^2/NDF :90873.3/22

Left: -19.514+/-0.017 χ^2/NDF : 237400.2/47

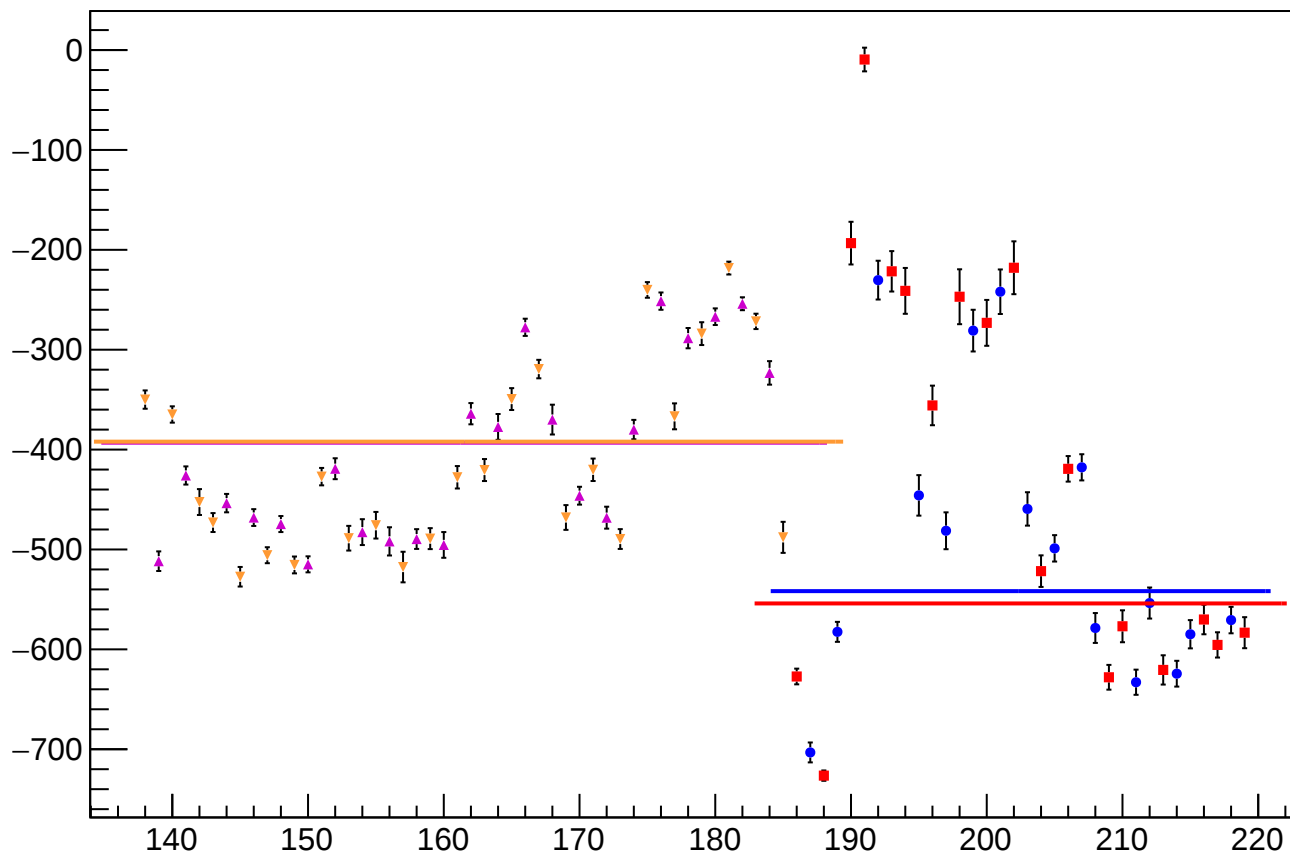
Right: -33.416+/-0.027 χ^2/NDF : 777271.7/69

In: -23.762+/-0.020 χ^2/NDF :514258.1/55

Out: -23.056+/-0.019 χ^2/NDF :695308.6/61

All: -23.393+/-0.014 χ^2/NDF : 1210191.8/117

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -541.712 ± 3.555 $\chi^2/\text{NDF}: 1144.8/15$

Left Out: -392.054 ± 1.967 $\chi^2/\text{NDF}: 2717.2/24$

Right Out: -554.037 ± 2.956 $\chi^2/\text{NDF}: 4769.8/17$

Left In: -393.113 ± 2.006 $\chi^2/\text{NDF}: 2253.3/22$

Left: -392.573 ± 1.404 $\chi^2/\text{NDF}: 4970.6/47$

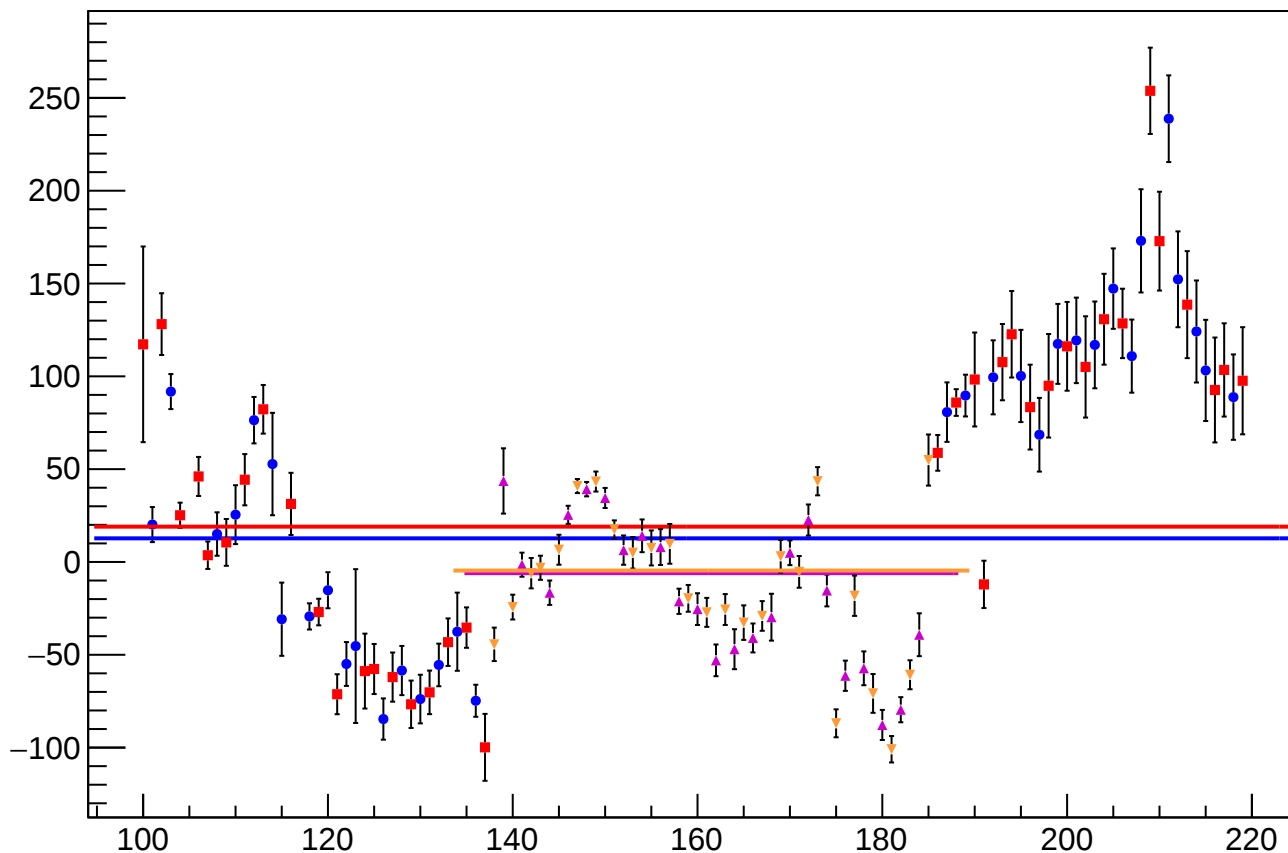
Right: -549.000 ± 2.273 $\chi^2/\text{NDF}: 5921.7/33$

In: -428.985 ± 1.747 $\chi^2/\text{NDF}: 4723.3/38$

Out: -441.756 ± 1.637 $\chi^2/\text{NDF}: 9568.7/42$

All: -435.783 ± 1.195 $\chi^2/\text{NDF}: 14320.5/81$

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.725 ± 2.473 $\chi^2/\text{NDF}: 902.8/32$

Left Out: -4.624 ± 1.462 $\chi^2/\text{NDF}: 772.9/24$

Right Out: 19.028 ± 2.193 $\chi^2/\text{NDF}: 920.5/36$

Left In: -6.019 ± 1.516 $\chi^2/\text{NDF}: 654.1/22$

Left: -5.296 ± 1.053 $\chi^2/\text{NDF}: 1427.4/47$

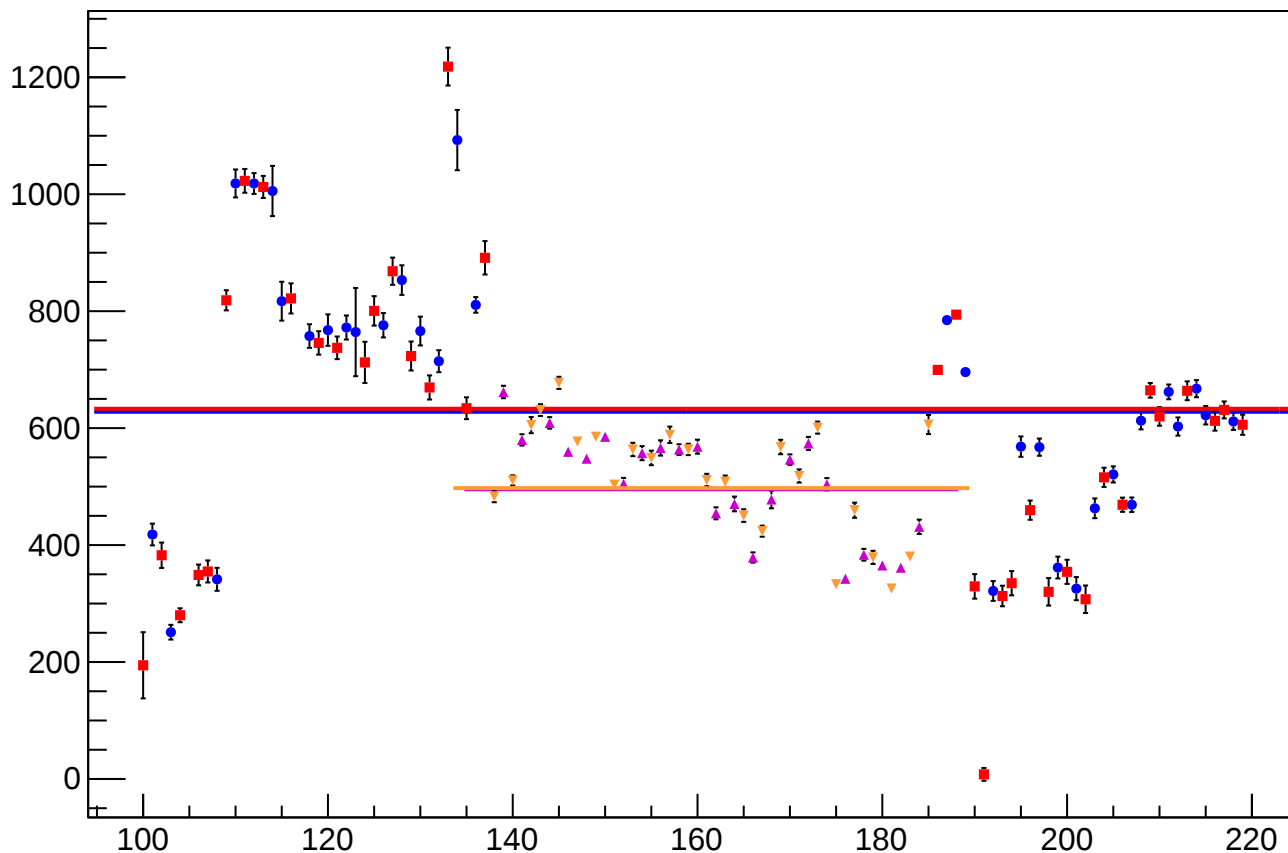
Right: 16.254 ± 1.641 $\chi^2/\text{NDF}: 1826.9/69$

In: -0.898 ± 1.293 $\chi^2/\text{NDF}: 1598.6/55$

Out: 2.656 ± 1.217 $\chi^2/\text{NDF}: 1773.9/61$

All: 0.986 ± 0.886 $\chi^2/\text{NDF}: 3376.5/117$

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 627.999+/-2.789 χ^2/NDF : 4231.7/32

Left Out: 497.381+/-1.966 χ^2/NDF : 2614.6/24

Right Out: 633.154+/-2.298 χ^2/NDF : 9636.5/36

Left In: 495.454+/-1.992 χ^2/NDF : 2253.8/22

Left: 496.430+/-1.399 χ^2/NDF : 4868.9/47

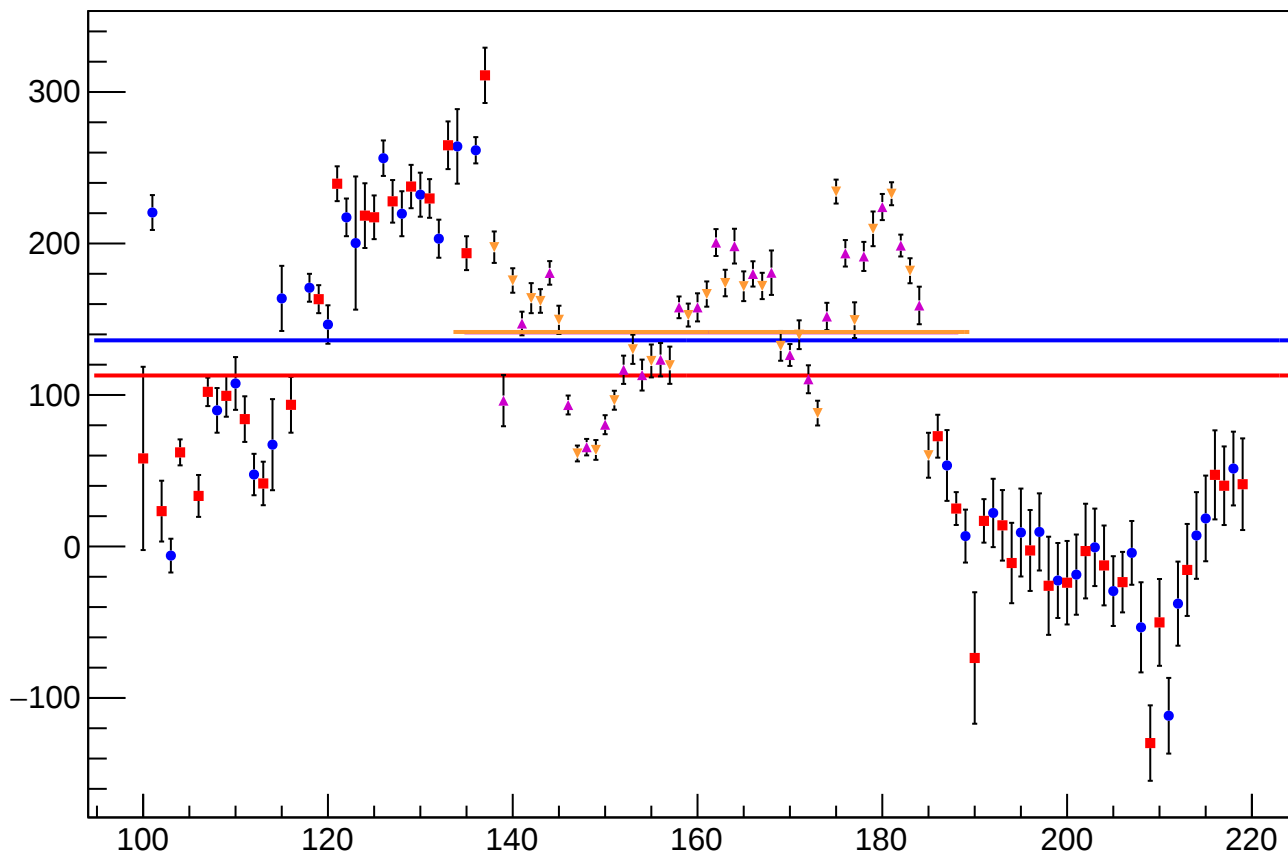
Right: 631.069+/-1.773 χ^2/NDF : 13870.2/69

In: 540.242+/-1.621 χ^2/NDF : 7981.3/55

Out: 554.754+/-1.494 χ^2/NDF : 14266.7/61

All: 548.089+/-1.099 χ^2/NDF : 22291.3/117

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 136.063 $\pm$ 2.867 χ^2 /NDF: 1347.2/32

Left Out: 141.588 $\pm$ 1.698 χ^2 /NDF:959.6/24

Right Out: 112.871 $\pm$ 2.615 χ^2 /NDF: 1322.9/36

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

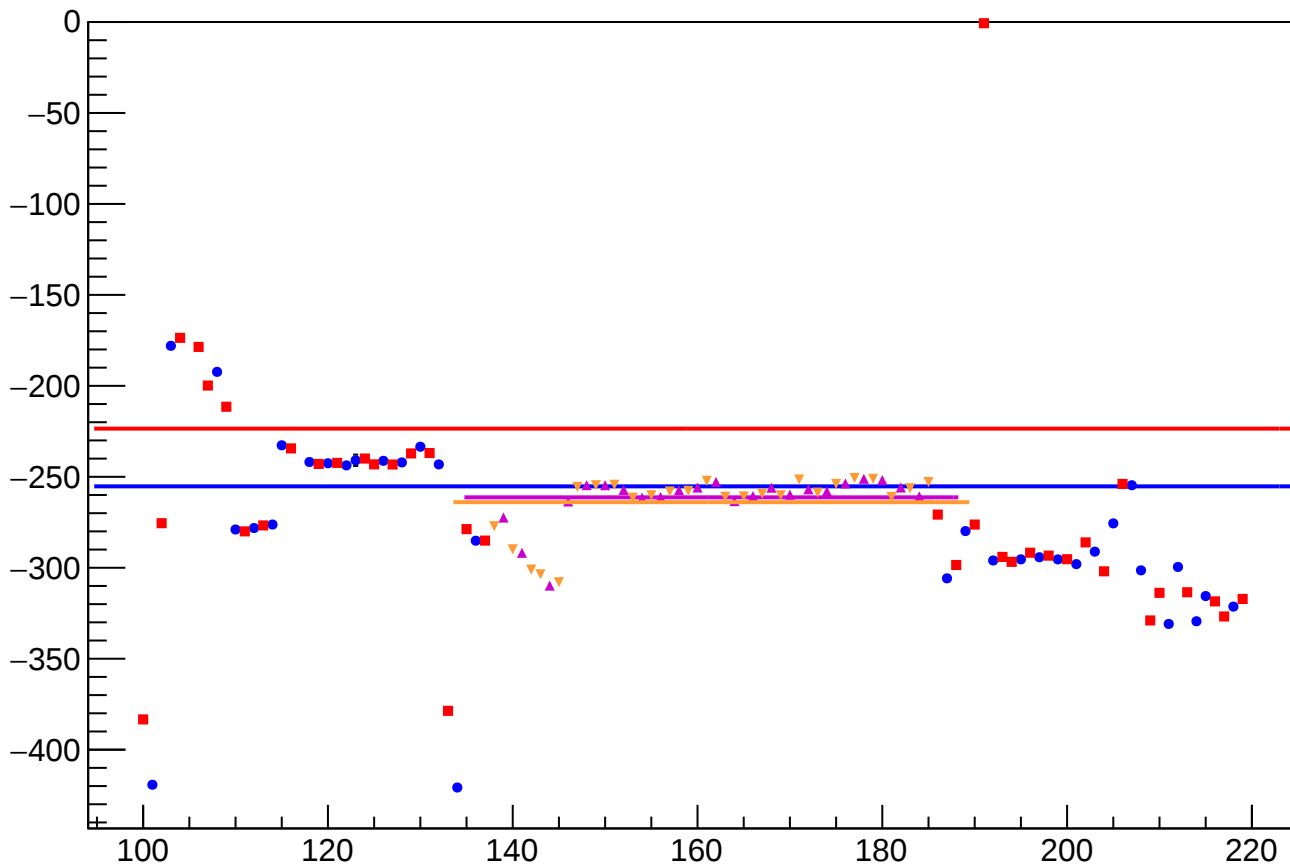
Right: 123.404 $\pm$ 1.932 χ^2 /NDF: 2705.8/69

In: 139.925 $\pm$ 1.492 χ^2 /NDF:2090.9/55

Out: 133.069 $\pm$ 1.424 χ^2 /NDF:2367.3/61

All: 136.337 $\pm$ 1.030 χ^2 /NDF: 4469.2/117

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -255.256+/-0.134 χ^2/NDF : 209212.2/32

Left Out: -263.943+/-0.081 χ^2/NDF : 39085.0/24

Right Out: -223.509+/-0.121 χ^2/NDF : 520966.7/36

Left In: -261.286+/-0.082 χ^2/NDF : 23348.4/22

Left: -262.627+/-0.058 χ^2/NDF : 62963.4/47

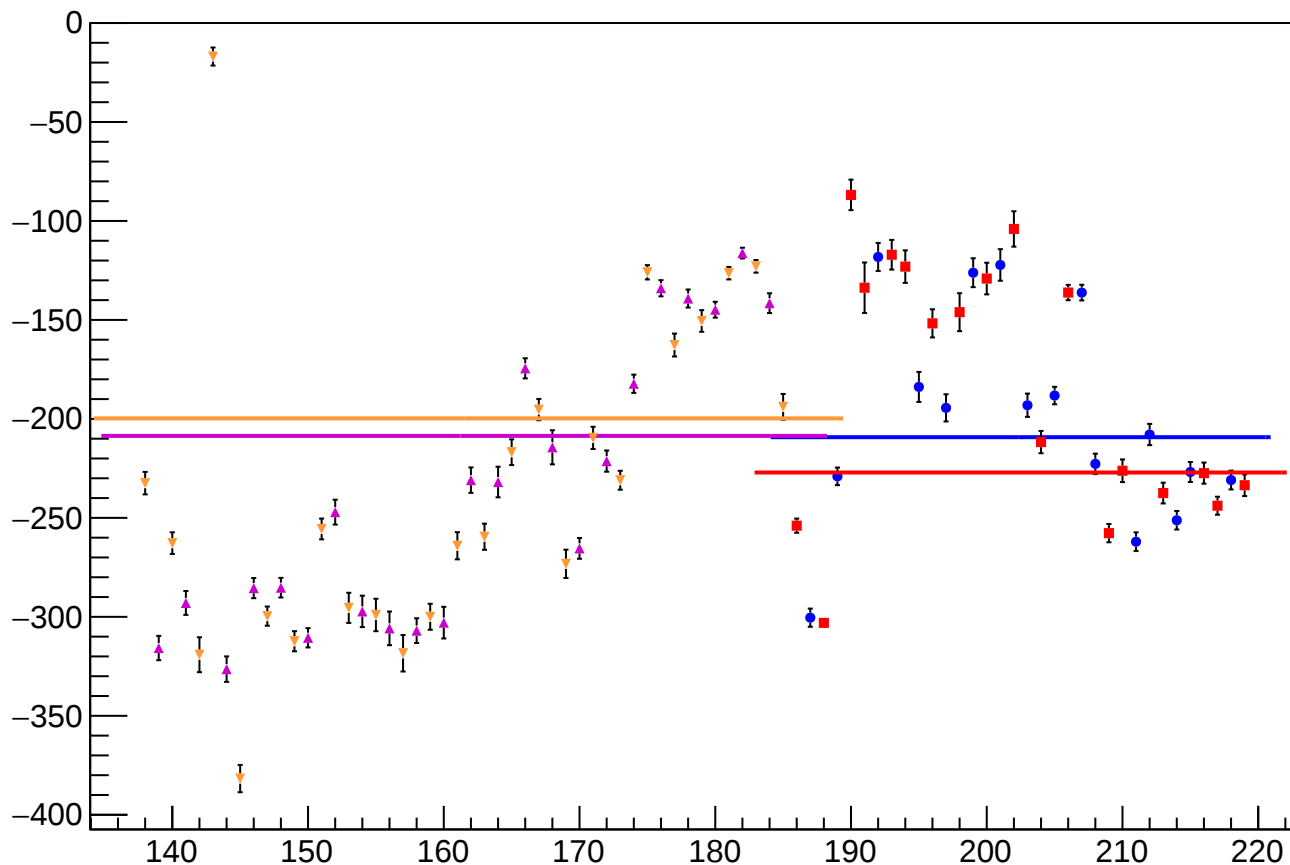
Right: -237.741+/-0.090 χ^2/NDF : 761290.1/69

In: -259.639+/-0.070 χ^2/NDF : 234039.5/55

Out: -251.308+/-0.067 χ^2/NDF : 637450.1/61

All: -255.320+/-0.049 χ^2/NDF : 878855.9/117

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -209.243 ± 1.311 $\chi^2/\text{NDF}: 1460.5/15$

Left Out: -199.741 ± 1.061 $\chi^2/\text{NDF}: 6361.5/24$

Right Out: -227.085 ± 1.197 $\chi^2/\text{NDF}: 2987.2/17$

Left In: -208.579 ± 1.082 $\chi^2/\text{NDF}: 4805.1/22$

Left: -204.073 ± 0.758 $\chi^2/\text{NDF}: 11200.6/47$

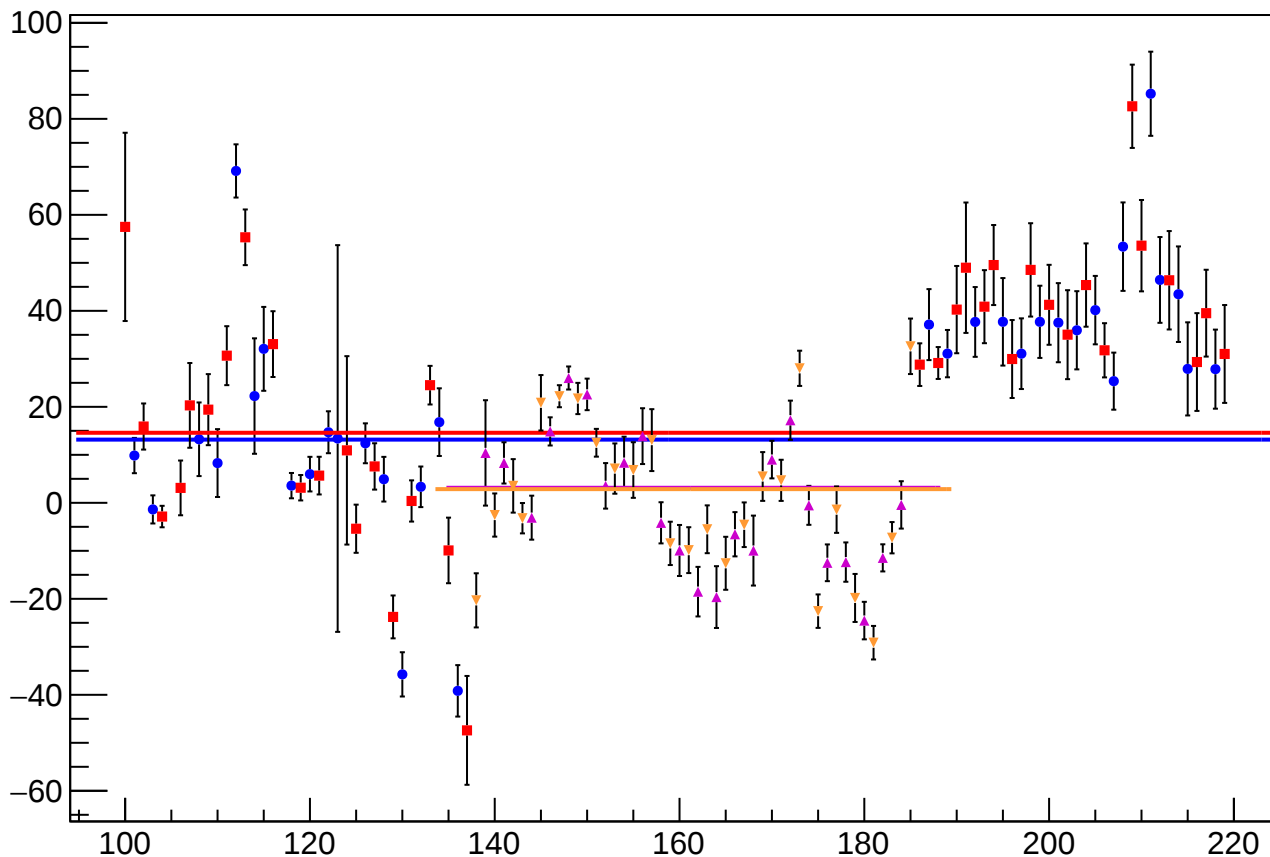
Right: -218.979 ± 0.884 $\chi^2/\text{NDF}: 4548.7/33$

In: -208.848 ± 0.835 $\chi^2/\text{NDF}: 6265.8/38$

Out: -211.779 ± 0.794 $\chi^2/\text{NDF}: 9641.0/42$

All: -210.387 ± 0.575 $\chi^2/\text{NDF}: 15913.3/81$

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.169 ± 0.957 $\chi^2/\text{NDF}: 576.5/32$

Left Out: 2.853 ± 0.820 $\chi^2/\text{NDF}: 419.8/24$

Right Out: 14.595 ± 0.903 $\chi^2/\text{NDF}: 535.7/36$

Left In: 3.136 ± 0.857 $\chi^2/\text{NDF}: 319.8/22$

Left: 2.988 ± 0.592 $\chi^2/\text{NDF}: 739.7/47$

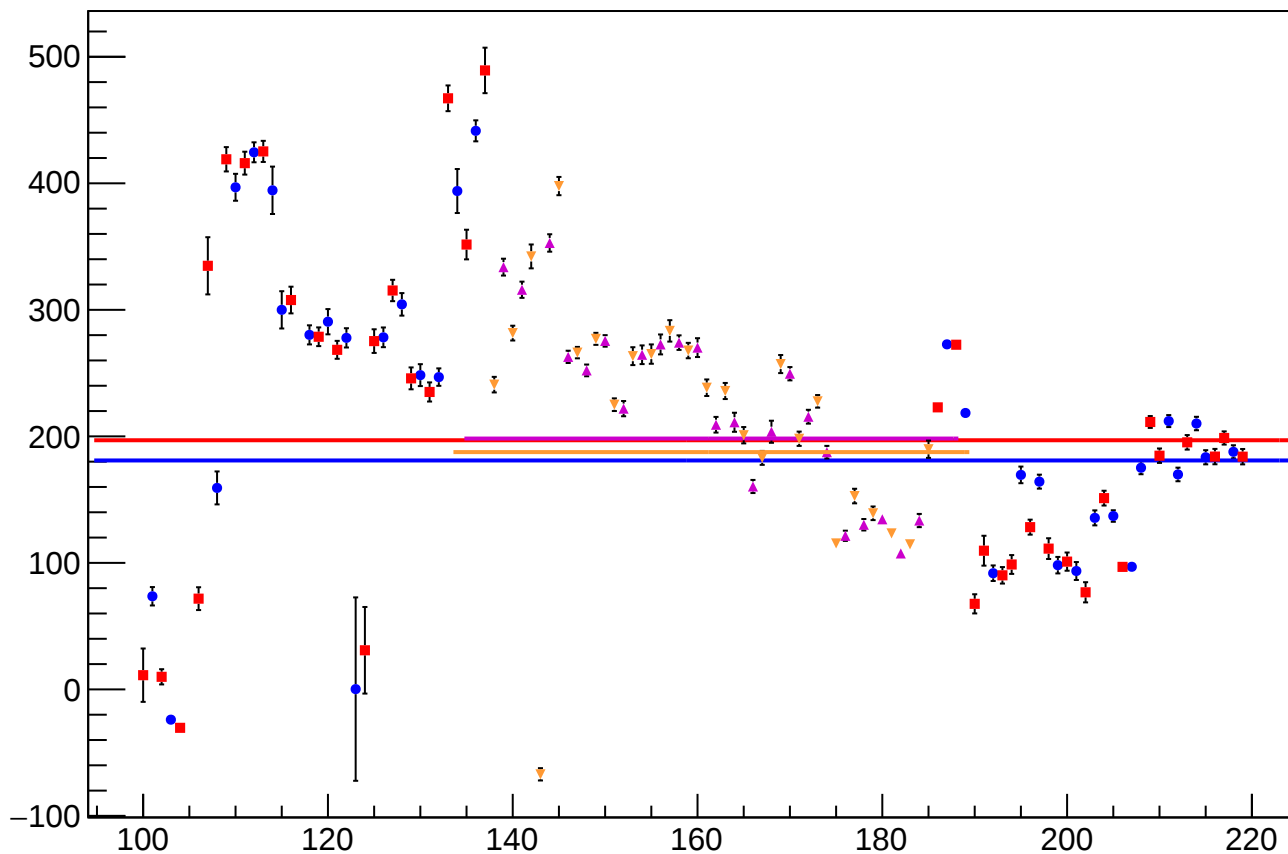
Right: 13.923 ± 0.657 $\chi^2/\text{NDF}: 1113.3/69$

In: 7.601 ± 0.638 $\chi^2/\text{NDF}: 957.3/55$

Out: 8.157 ± 0.607 $\chi^2/\text{NDF}: 1048.2/61$

All: 7.893 ± 0.440 $\chi^2/\text{NDF}: 2005.9/117$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 180.949 $\pm$ 1.060 χ^2 /NDF: 8771.9/32

Left Out: 187.565 $\pm$ 1.066 χ^2 /NDF:7082.0/24

Right Out: 196.922 $\pm$ 0.949 χ^2 /NDF: 12154.4/36

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

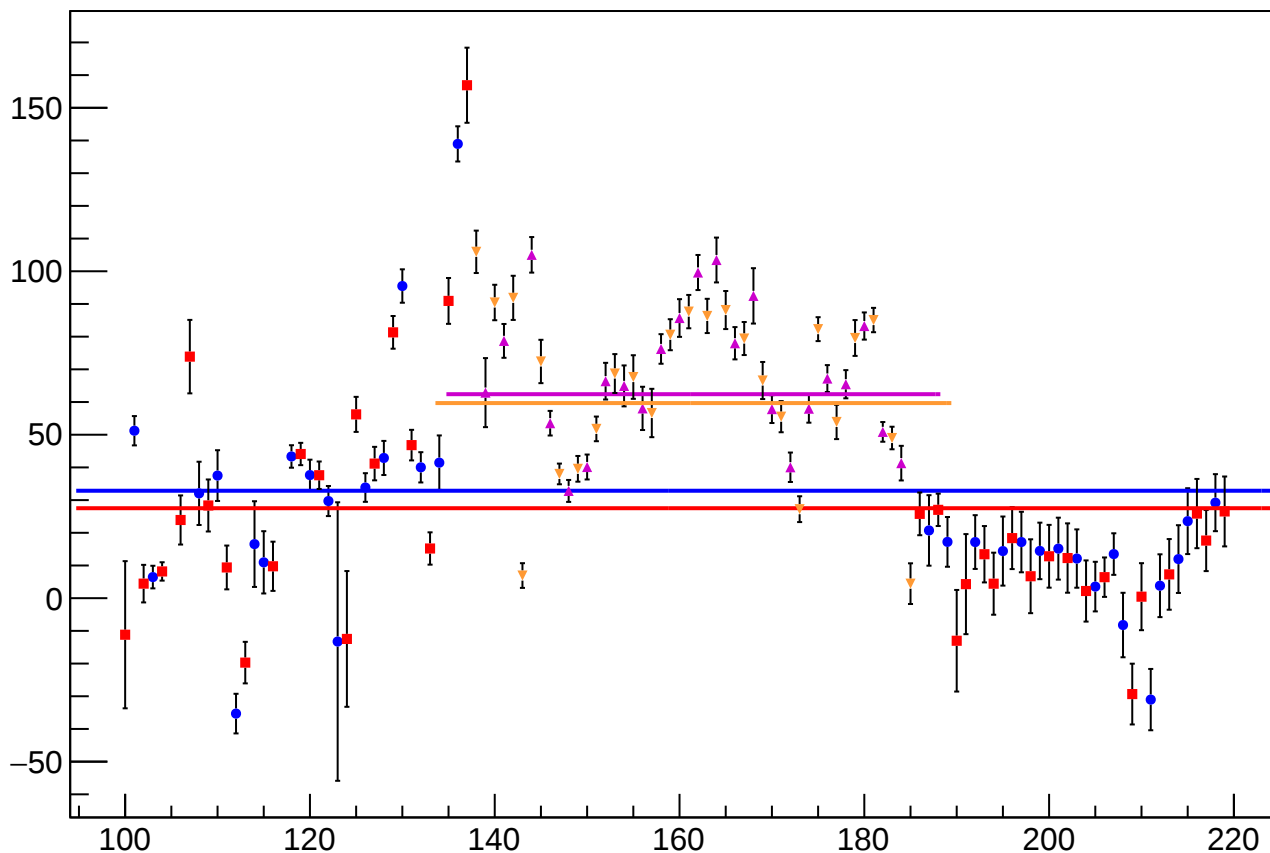
Right: 189.818 $\pm$ 0.707 χ^2 /NDF: 21052.4/69

In: 189.436 $\pm$ 0.757 χ^2 /NDF:13418.4/55

Out: 192.785 $\pm$ 0.709 χ^2 /NDF:19279.5/61

All: 191.221 $\pm$ 0.517 χ^2 /NDF: 32708.3/117

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.865 $\pm$ 1.111 χ^2/NDF : 897.3/32

Left Out: 59.682 $\pm$ 0.941 χ^2/NDF : 757.6/24

Right Out: 27.520 $\pm$ 1.071 χ^2/NDF : 663.3/36

Left In: 62.400 $\pm$ 0.974 χ^2/NDF : 406.3/22

Left: 60.993 $\pm$ 0.677 χ^2/NDF : 1167.9/47

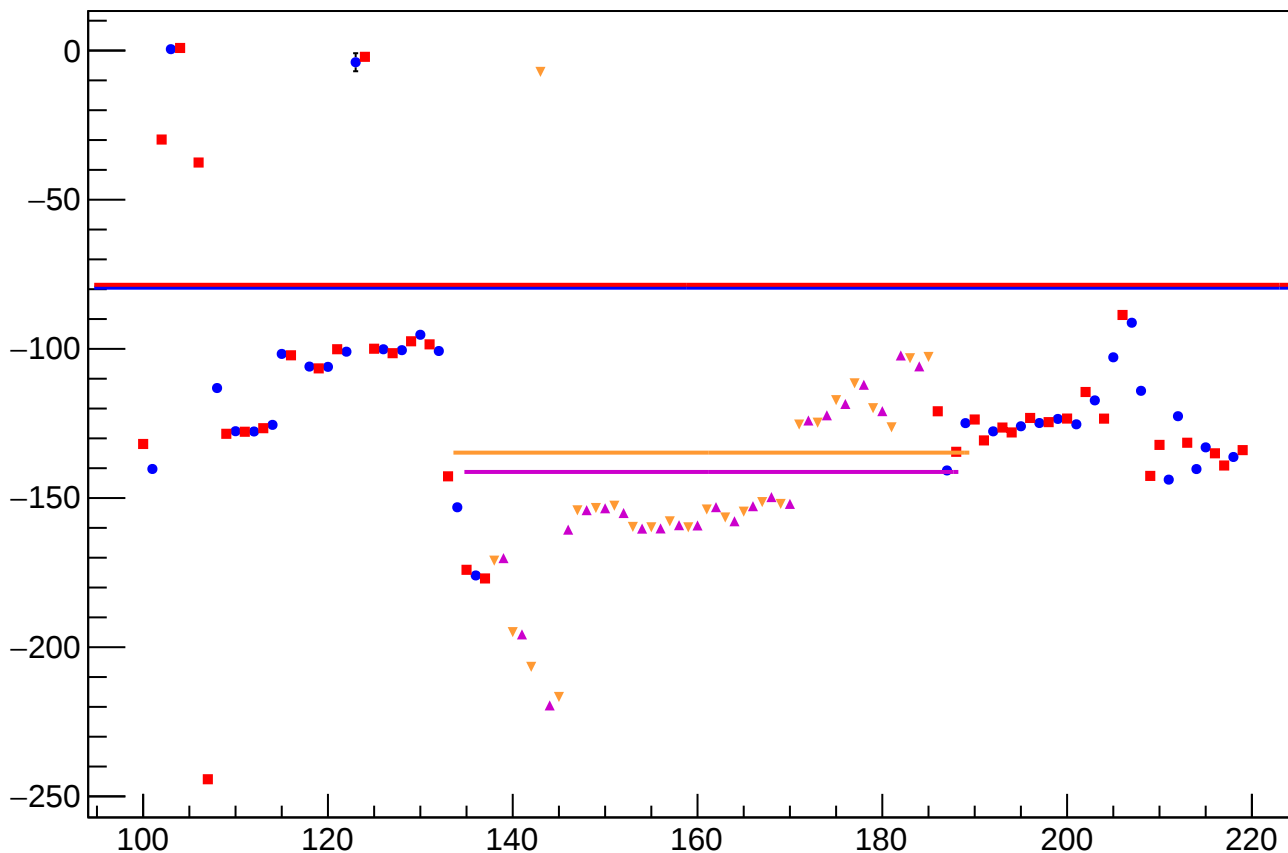
Right: 30.095 $\pm$ 0.771 χ^2/NDF : 1572.6/69

In: 49.561 $\pm$ 0.732 χ^2/NDF : 1703.2/55

Out: 45.681 $\pm$ 0.707 χ^2/NDF : 1929.8/61

All: 47.552 $\pm$ 0.509 χ^2/NDF : 3647.5/117

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -79.486 ± 0.050 $\chi^2/\text{NDF}: 1482868.5/32$

Left Out: -134.780 ± 0.045 $\chi^2/\text{NDF}: 804747.3/24$

Right Out: -78.518 ± 0.049 $\chi^2/\text{NDF}: 1471912.0/36$

Left In: -141.255 ± 0.045 $\chi^2/\text{NDF}: 347229.8/22$

Left: -137.961 ± 0.032 $\chi^2/\text{NDF}: 1162377.9/47$

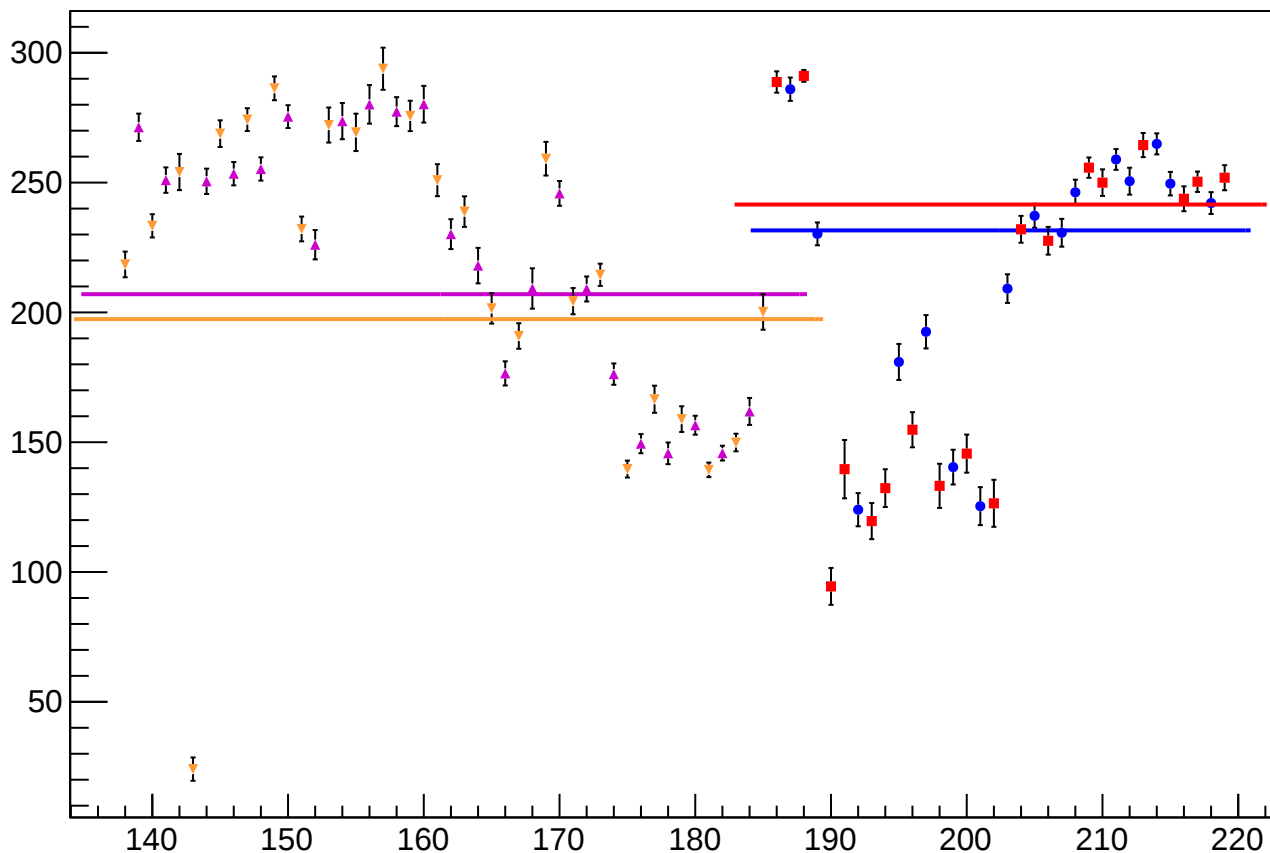
Right: -78.988 ± 0.035 $\chi^2/\text{NDF}: 2954973.7/69$

In: -113.388 ± 0.034 $\chi^2/\text{NDF}: 2669263.6/55$

Out: -109.083 ± 0.033 $\chi^2/\text{NDF}: 3006651.3/61$

All: -111.187 ± 0.023 $\chi^2/\text{NDF}: 5684330.9/111$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 231.587 ± 1.255 χ^2/NDF : 1092.8/15

Left Out: 197.408 ± 0.963 χ^2/NDF : 4384.2/24

Right Out: 241.555 ± 1.148 χ^2/NDF : 2369.1/17

Left In: 207.014 ± 0.990 χ^2/NDF : 2611.5/22

Left: 202.077 ± 0.690 χ^2/NDF : 7044.1/47

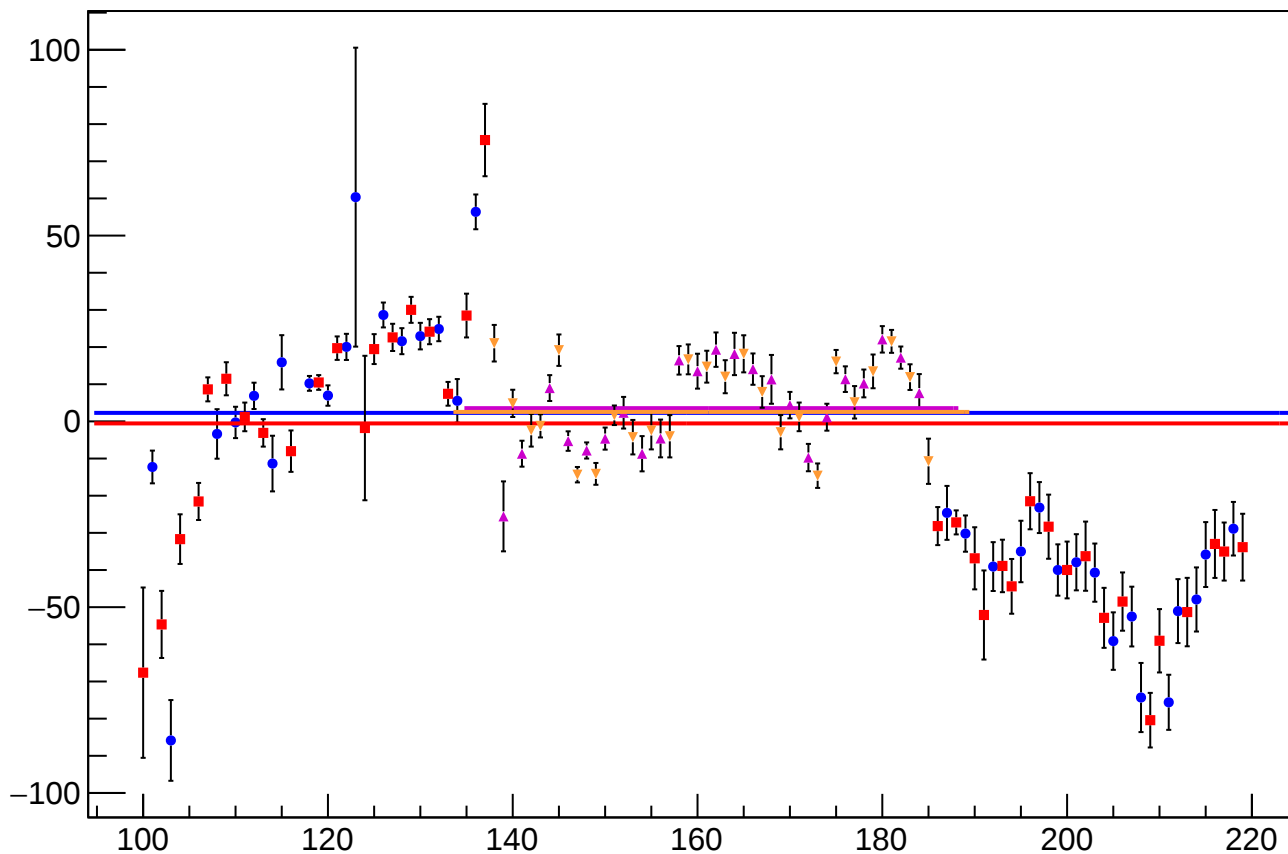
Right: 237.015 ± 0.847 χ^2/NDF : 3496.2/33

In: 216.440 ± 0.777 χ^2/NDF : 3940.6/38

Out: 215.642 ± 0.738 χ^2/NDF : 7621.5/42

All: 216.020 ± 0.535 χ^2/NDF : 11562.6/81

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.288 ± 0.836 χ^2/NDF : 1064.9/32

Left Out: 2.548 ± 0.741 χ^2/NDF : 275.4/24

Right Out: -0.548 ± 0.799 χ^2/NDF : 1039.7/36

Left In: 3.559 ± 0.774 χ^2/NDF : 192.0/22

Left: 3.031 ± 0.535 χ^2/NDF : 468.3/47

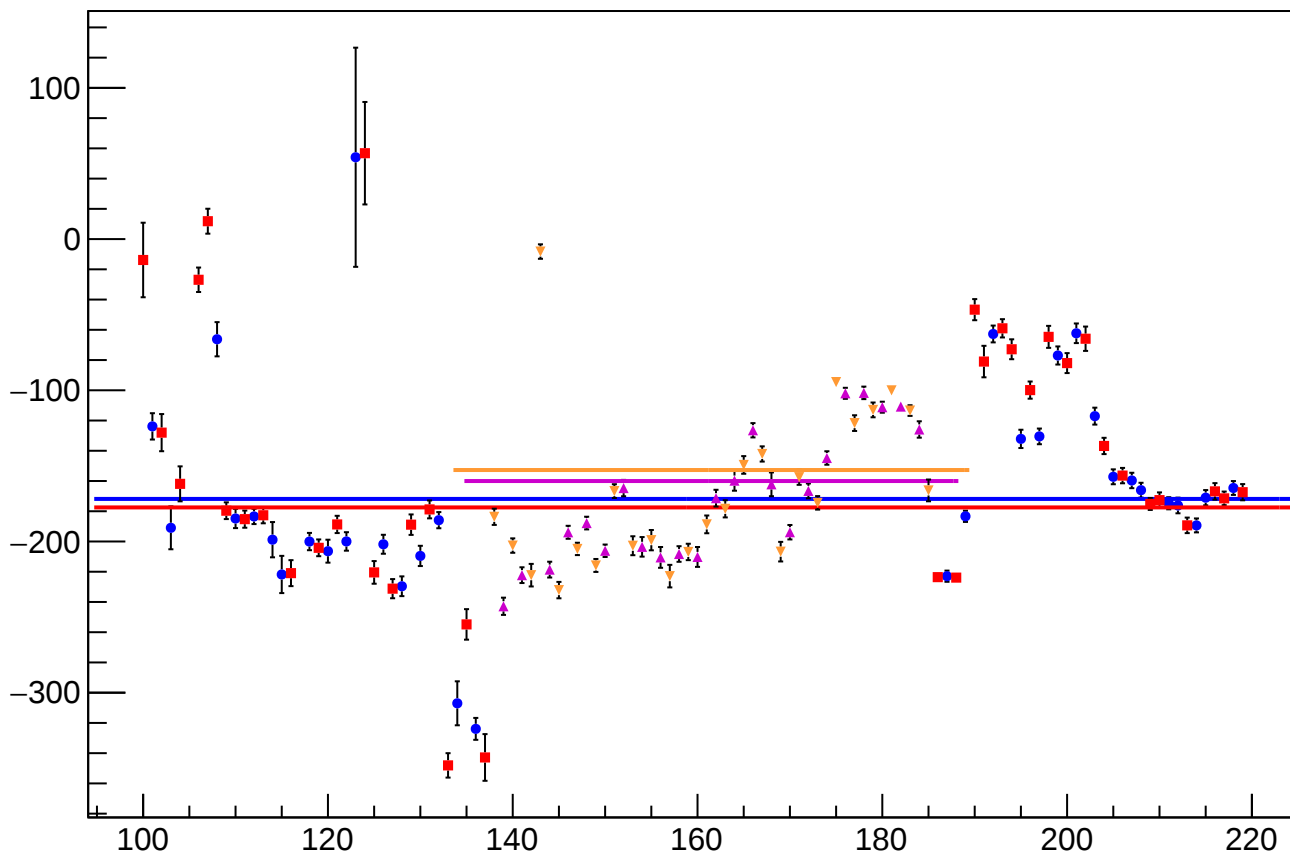
Right: 0.807 ± 0.578 χ^2/NDF : 2110.6/69

In: 2.972 ± 0.568 χ^2/NDF : 1258.1/55

Out: 1.117 ± 0.543 χ^2/NDF : 1323.2/61

All: 2.004 ± 0.393 χ^2/NDF : 2586.9/117

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.844 ± 1.005 χ^2/NDF : 2250.9/32

Left Out: -152.738 ± 0.967 χ^2/NDF : 3077.8/24

Right Out: -177.470 ± 0.900 χ^2/NDF : 4594.8/36

Left In: -160.021 ± 0.989 χ^2/NDF : 2024.4/22

Left: -156.299 ± 0.691 χ^2/NDF : 5129.9/47

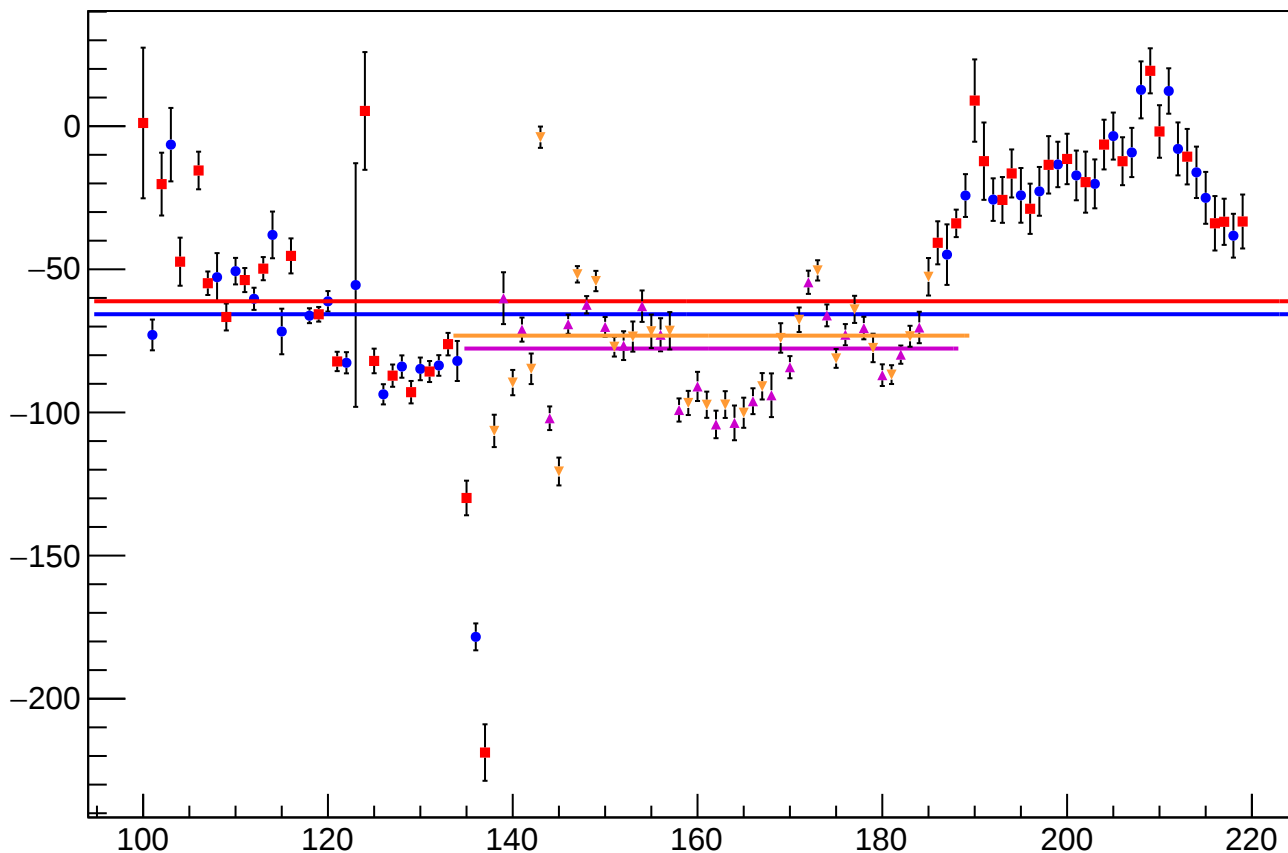
Right: -174.965 ± 0.671 χ^2/NDF : 6863.0/69

In: -165.836 ± 0.705 χ^2/NDF : 4345.6/55

Out: -165.985 ± 0.659 χ^2/NDF : 8023.0/61

All: -165.915 ± 0.481 χ^2/NDF : 12368.6/117

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -65.688 ± 0.966 $\chi^2/\text{NDF}: 1358.5/32$

Left Out: -73.165 ± 0.851 $\chi^2/\text{NDF}: 788.6/24$

Right Out: -61.159 ± 0.932 $\chi^2/\text{NDF}: 1205.5/36$

Left In: -77.678 ± 0.883 $\chi^2/\text{NDF}: 248.3/22$

Left: -75.339 ± 0.613 $\chi^2/\text{NDF}: 1050.4/47$

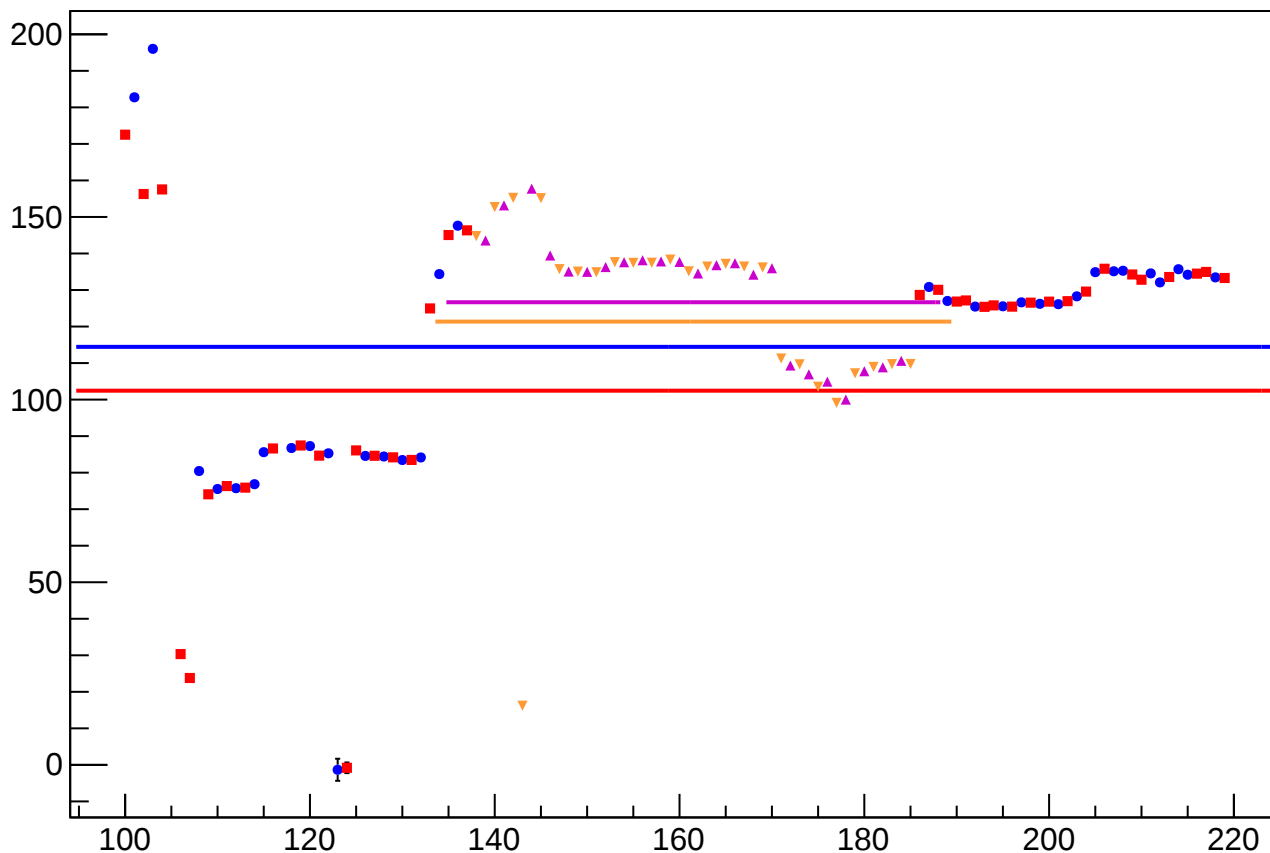
Right: -63.343 ± 0.671 $\chi^2/\text{NDF}: 2575.4/69$

In: -72.222 ± 0.652 $\chi^2/\text{NDF}: 1690.7/55$

Out: -67.707 ± 0.629 $\chi^2/\text{NDF}: 2084.6/61$

All: -69.883 ± 0.452 $\chi^2/\text{NDF}: 3800.1/117$

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 114.440 $\pm$ 0.054 χ^2 /NDF: 330156.0/32

Left Out: 121.356 $\pm$ 0.040 χ^2 /NDF:481977.3/24

Right Out: 102.440 $\pm$ 0.050 χ^2 /NDF: 610956.5/36

Left In: 126.653 $\pm$ 0.041 χ^2 /NDF:163046.1/22

Left: 123.954 $\pm$ 0.029 χ^2 /NDF: 653496.6/47

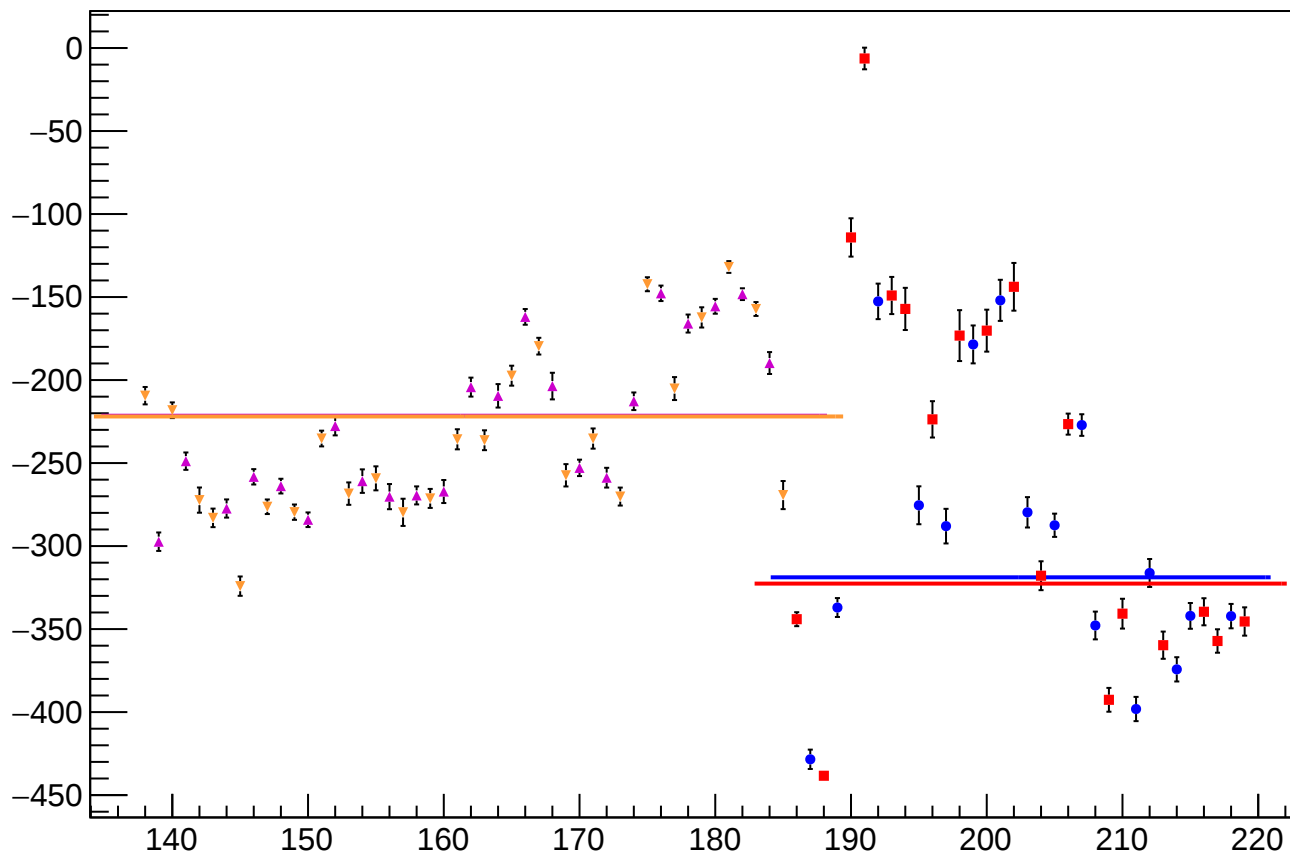
Right: 107.953 $\pm$ 0.036 χ^2 /NDF: 968093.0/69

In: 122.146 $\pm$ 0.033 χ^2 /NDF:525823.0/55

Out: 113.818 $\pm$ 0.031 χ^2 /NDF:1180709.4/61

All: 117.804 $\pm$ 0.023 χ^2 /NDF: 1740502.7/117

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -318.819 ± 1.973 $\chi^2/\text{NDF}: 1404.2/15$

Left Out: -221.934 ± 1.084 $\chi^2/\text{NDF}: 2578.4/24$

Right Out: -322.604 ± 1.649 $\chi^2/\text{NDF}: 5432.1/17$

Left In: -221.483 ± 1.102 $\chi^2/\text{NDF}: 2149.8/22$

Left: -221.712 ± 0.773 $\chi^2/\text{NDF}: 4728.2/47$

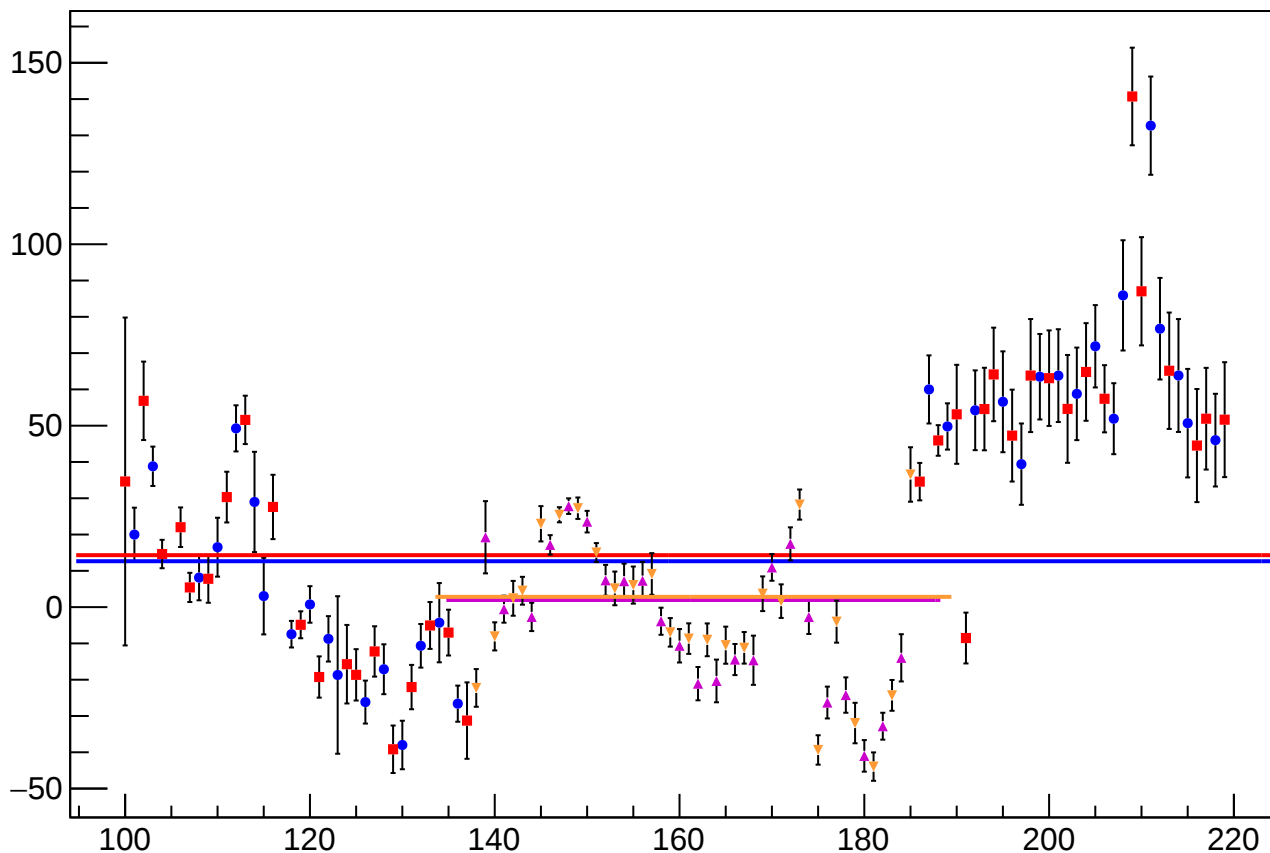
Right: -321.047 ± 1.265 $\chi^2/\text{NDF}: 6838.5/33$

In: -244.643 ± 0.962 $\chi^2/\text{NDF}: 5409.6/38$

Out: -252.316 ± 0.906 $\chi^2/\text{NDF}: 10611.3/42$

All: -248.710 ± 0.660 $\chi^2/\text{NDF}: 16054.6/81$

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.651+/-1.352 χ^2 /NDF: 636.2/32

Left Out: 2.832+/-0.807 χ^2 /NDF:686.9/24

Right Out: 14.315+/-1.189 χ^2 /NDF: 639.4/36

Left In: 1.969+/-0.835 χ^2 /NDF:589.1/22

Left: 2.415+/-0.580 χ^2 /NDF: 1276.5/47

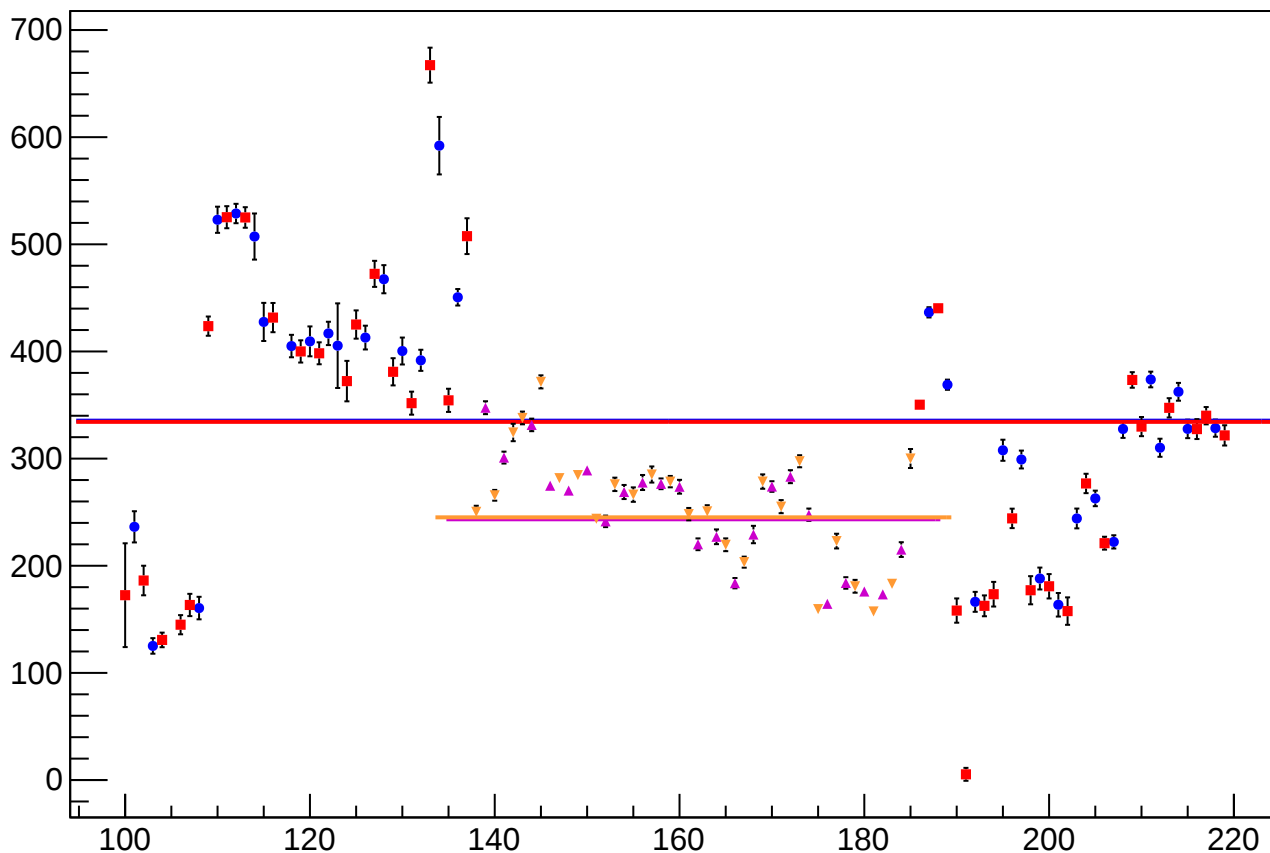
Right: 13.590+/-0.893 χ^2 /NDF: 1276.5/69

In: 4.916+/-0.710 χ^2 /NDF:1270.5/55

Out: 6.455+/-0.668 χ^2 /NDF:1390.2/61

All: 5.733+/-0.487 χ^2 /NDF: 2663.2/117

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 335.418+/-1.546 χ^2/NDF : 4486.2/32

Left Out: 245.179+/-1.082 χ^2/NDF : 2597.4/24

Right Out: 334.309+/-1.275 χ^2/NDF : 10102.4/36

Left In: 243.366+/-1.094 χ^2/NDF : 2236.7/22

Left: 244.282+/-0.769 χ^2/NDF : 4835.5/47

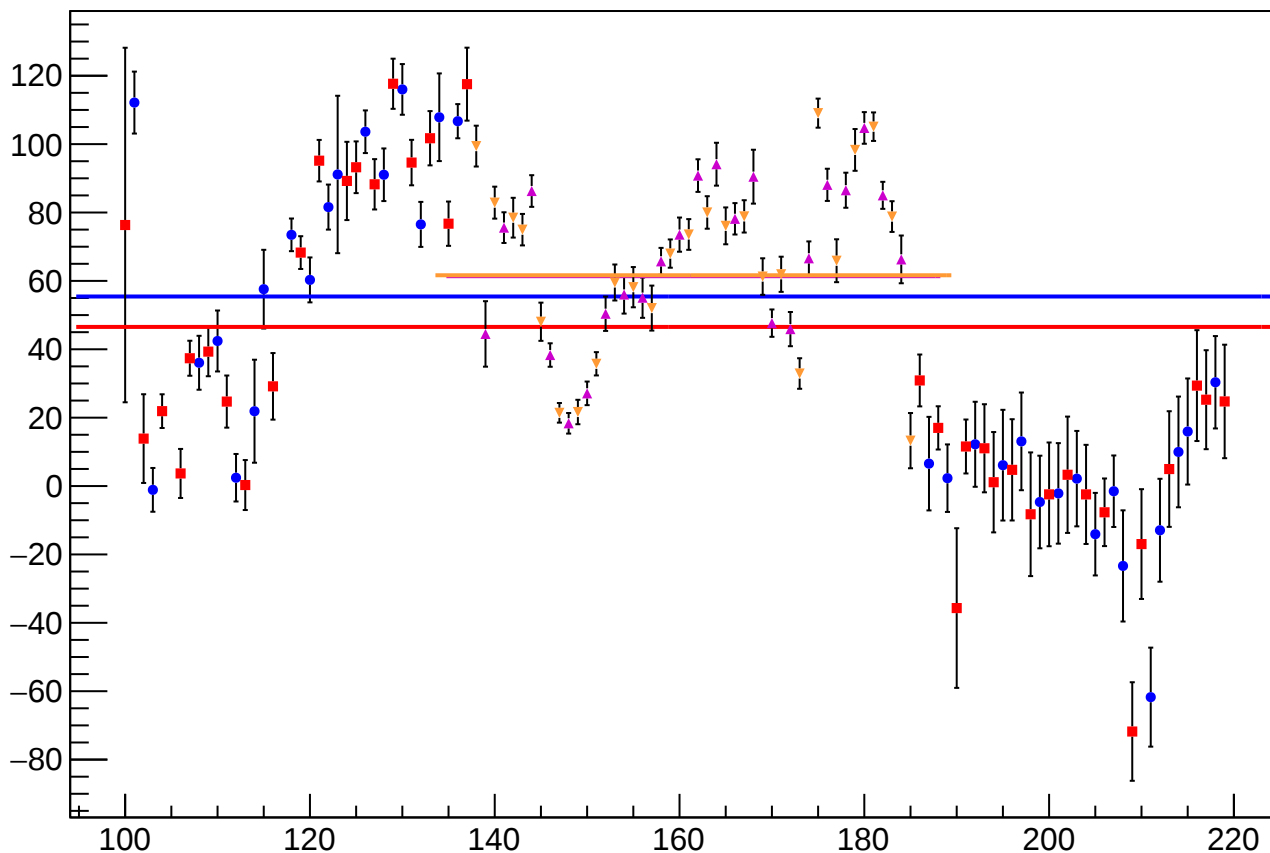
Right: 334.757+/-0.983 χ^2/NDF : 14588.9/69

In: 274.072+/-0.893 χ^2/NDF : 9086.2/55

Out: 282.512+/-0.825 χ^2/NDF : 15541.9/61

All: 278.625+/-0.606 χ^2/NDF : 24676.3/117

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 55.439 $\pm$ 1.565 χ^2 /NDF: 813.4/32

Left Out: 61.647 $\pm$ 0.936 χ^2 /NDF:871.5/24

Right Out: 46.541 $\pm$ 1.413 χ^2 /NDF: 797.4/36

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

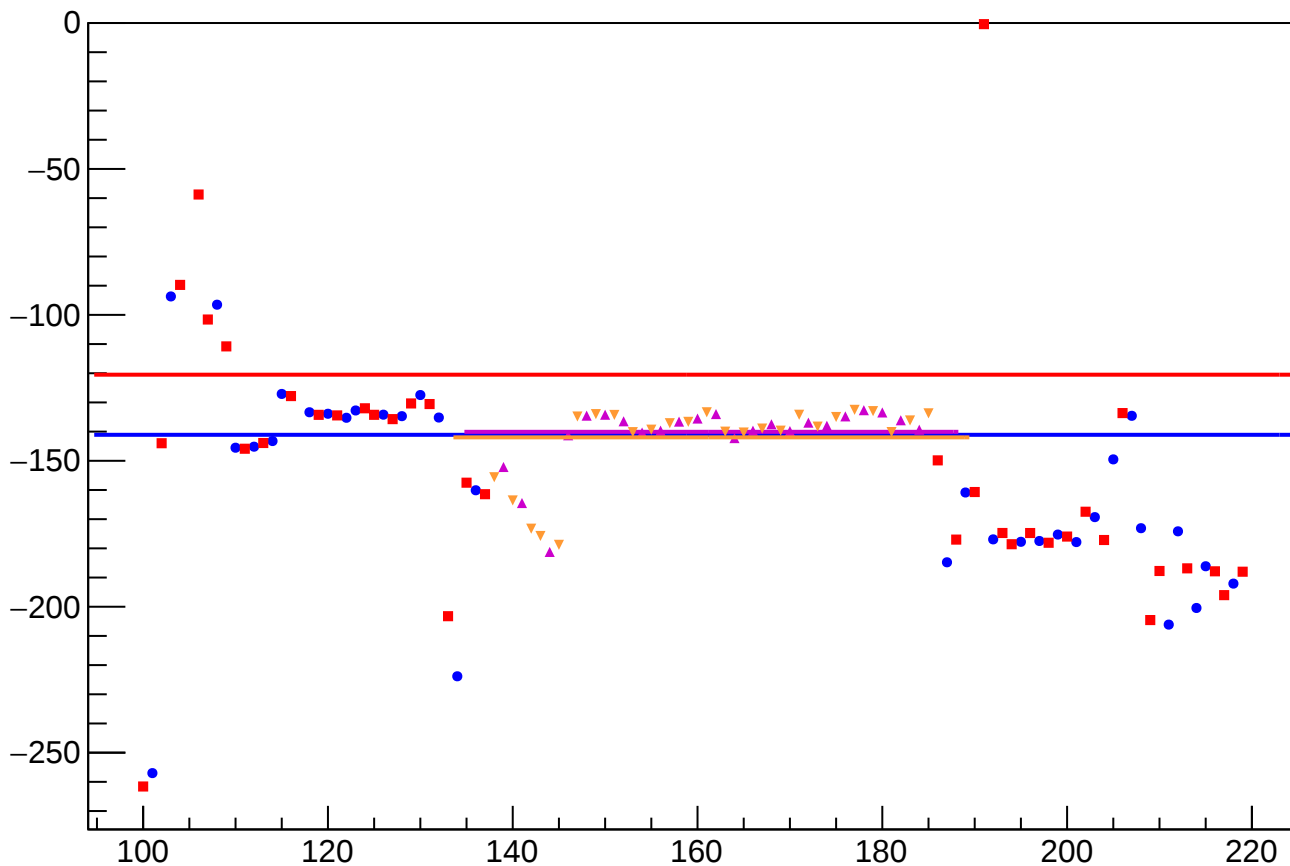
Right: 50.538 $\pm$ 1.049 χ^2 /NDF: 1628.7/69

In: 59.750 $\pm$ 0.819 χ^2 /NDF:1523.6/55

Out: 57.041 $\pm$ 0.781 χ^2 /NDF:1748.4/61

All: 58.330 $\pm$ 0.565 χ^2 /NDF: 3277.7/117

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -141.093+/-0.074 χ^2/NDF : 260698.9/32

Left Out: -141.969+/-0.045 χ^2/NDF : 80252.6/24

Right Out: -120.496+/-0.066 χ^2/NDF : 658464.4/36

Left In: -140.068+/-0.045 χ^2/NDF : 48030.7/22

Left: -141.025+/-0.032 χ^2/NDF : 129181.1/47

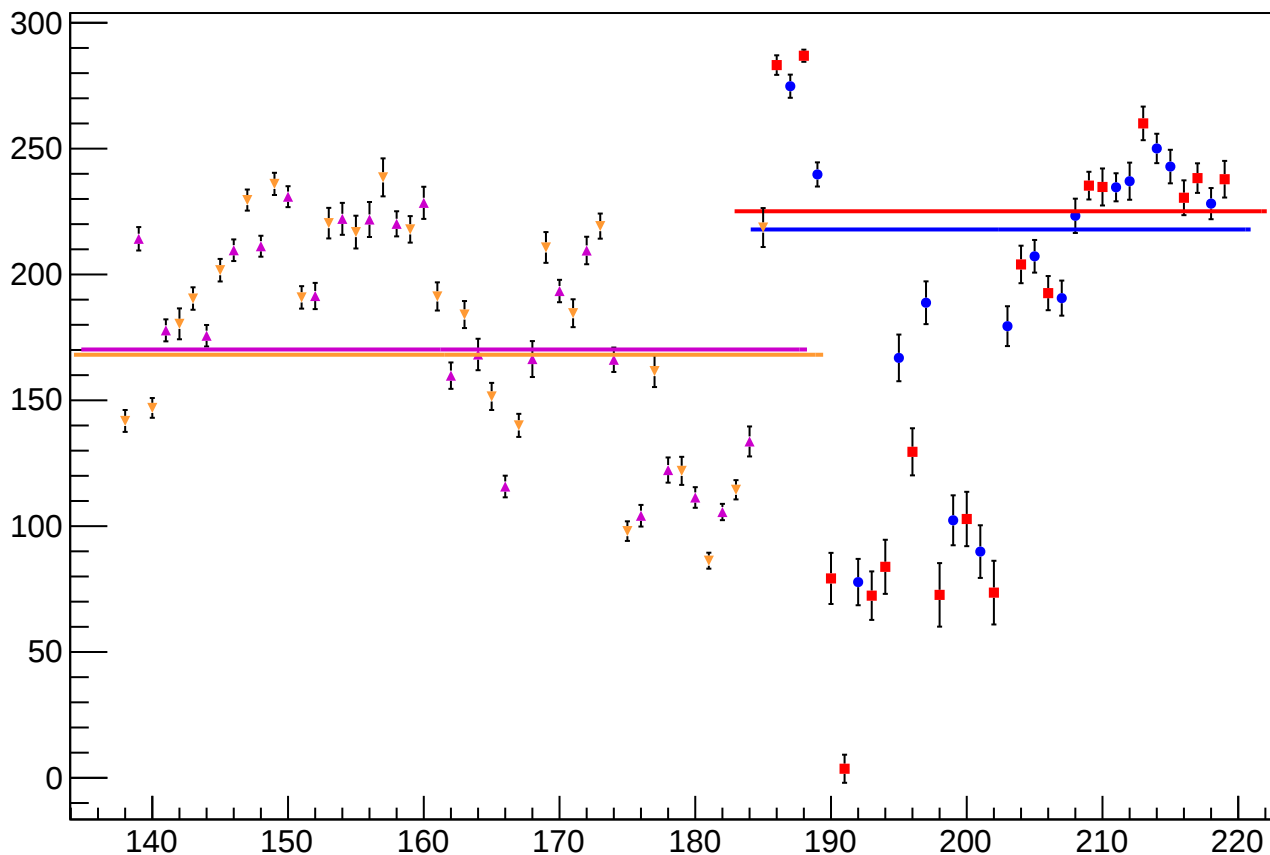
Right: -129.615+/-0.049 χ^2/NDF : 962134.7/69

In: -140.344+/-0.038 χ^2/NDF : 308869.0/55

Out: -135.232+/-0.037 χ^2/NDF : 811112.4/61

All: -137.690+/-0.027 χ^2/NDF : 1129144.1/111

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 217.879+/-1.672 χ^2/NDF : 837.9/15

Left Out: 168.106+/-0.970 χ^2/NDF :2468.8/24

Right Out: 225.114+/-1.394 χ^2/NDF : 3678.3/17

Left In: 170.198+/-0.995 χ^2/NDF :2024.5/22

Left: 169.125+/-0.695 χ^2/NDF : 4495.5/47

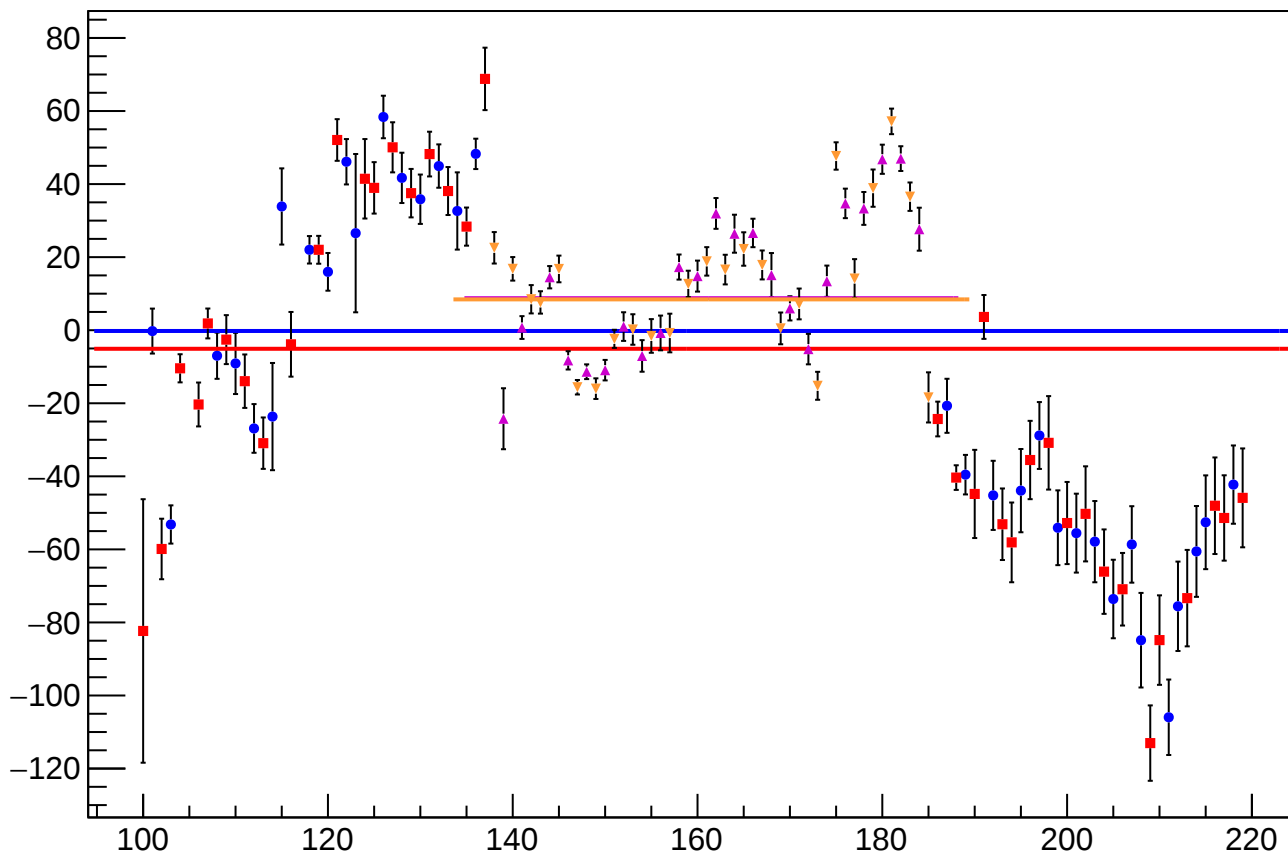
Right: 222.147+/-1.071 χ^2/NDF : 4527.2/33

In: 182.671+/-0.855 χ^2/NDF :3462.6/38

Out: 186.705+/-0.796 χ^2/NDF :7273.4/42

All: 184.832+/-0.583 χ^2/NDF : 10747.9/81

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.211 ± 1.277 χ^2/NDF : 1113.8/32

Left Out: 8.436 ± 0.728 χ^2/NDF : 752.0/24

Right Out: -5.086 ± 1.126 χ^2/NDF : 1138.1/36

Left In: 8.769 ± 0.758 χ^2/NDF : 626.8/22

Left: 8.596 ± 0.525 χ^2/NDF : 1379.0/47

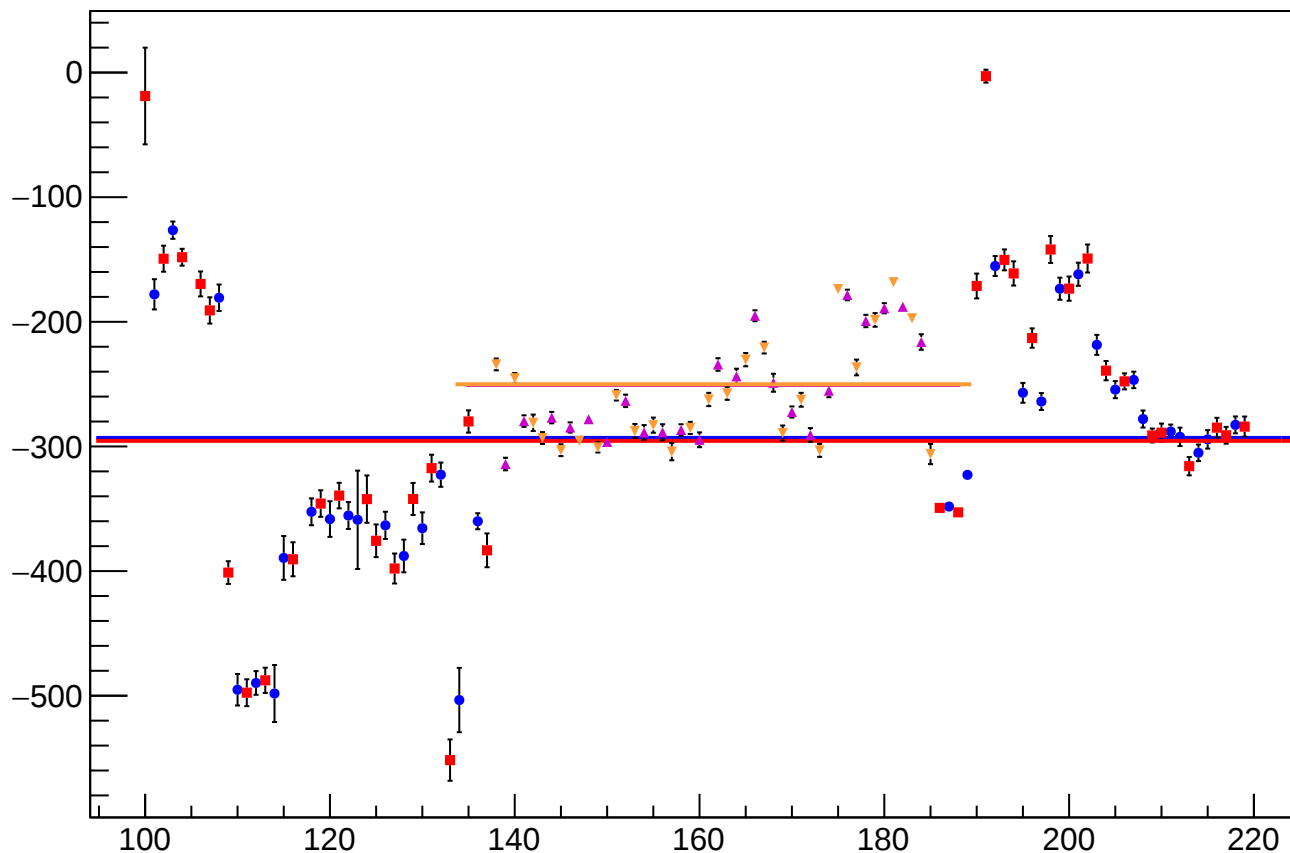
Right: -2.954 ± 0.845 χ^2/NDF : 2260.0/69

In: 6.428 ± 0.652 χ^2/NDF : 1777.1/55

Out: 4.449 ± 0.611 χ^2/NDF : 1991.8/61

All: 5.375 ± 0.446 χ^2/NDF : 3773.9/117

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -293.150+/-1.356 χ^2/NDF : 3137.6/32

Left Out: -250.119+/-0.972 χ^2/NDF : 2246.9/24

Right Out: -295.500+/-1.113 χ^2/NDF : 8123.3/36

Left In: -250.628+/-0.990 χ^2/NDF : 1937.1/22

Left: -250.369+/-0.694 χ^2/NDF : 4184.2/47

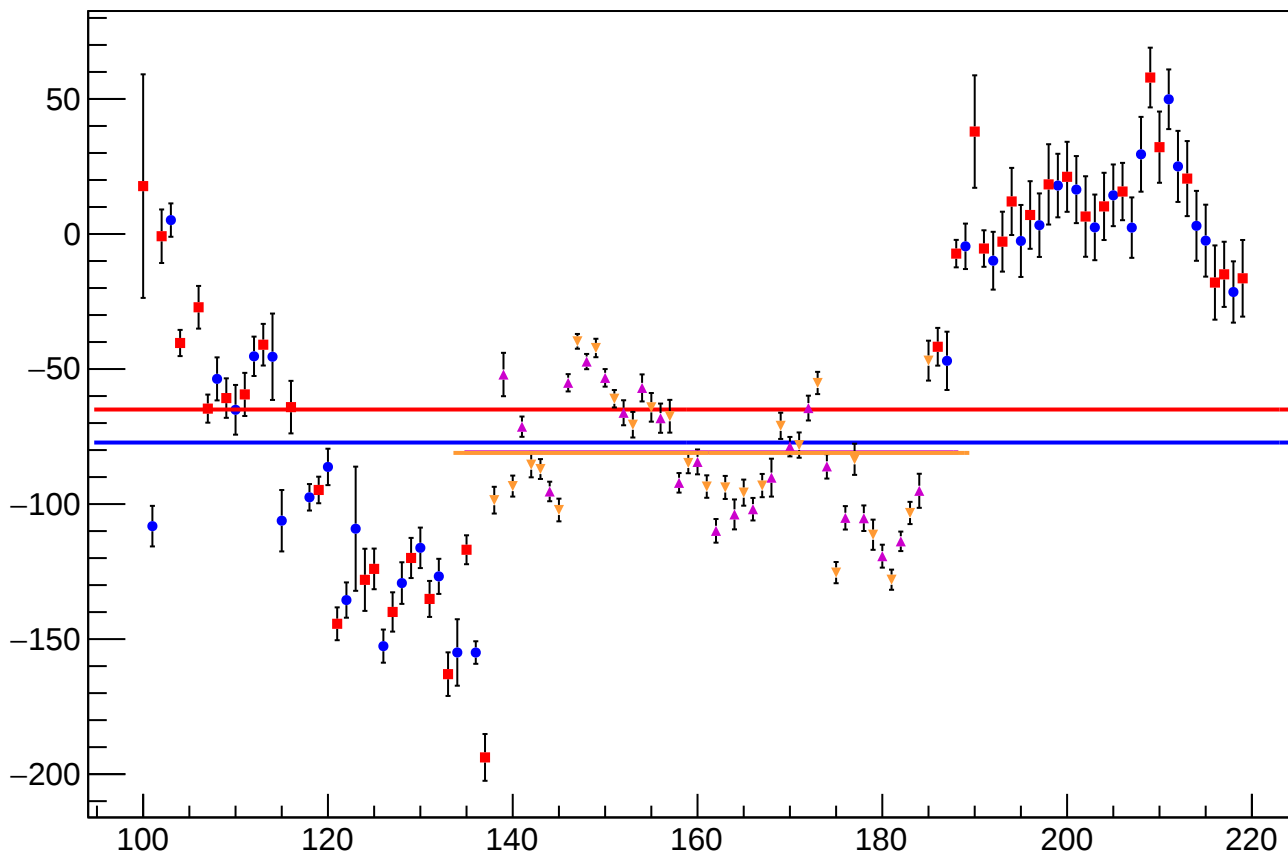
Right: -294.554+/-0.860 χ^2/NDF : 11262.7/69

In: -265.415+/-0.800 χ^2/NDF : 5715.7/55

Out: -269.762+/-0.732 χ^2/NDF : 11313.1/61

All: -267.780+/-0.540 χ^2/NDF : 17044.9/117

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -77.217 ± 1.476 $\chi^2/\text{NDF}: 1830.5/32$

Left Out: -81.057 ± 0.843 $\chi^2/\text{NDF}: 913.0/24$

Right Out: -64.989 ± 1.342 $\chi^2/\text{NDF}: 1931.9/36$

Left In: -80.834 ± 0.872 $\chi^2/\text{NDF}: 693.1/22$

Left: -80.949 ± 0.606 $\chi^2/\text{NDF}: 1606.2/47$

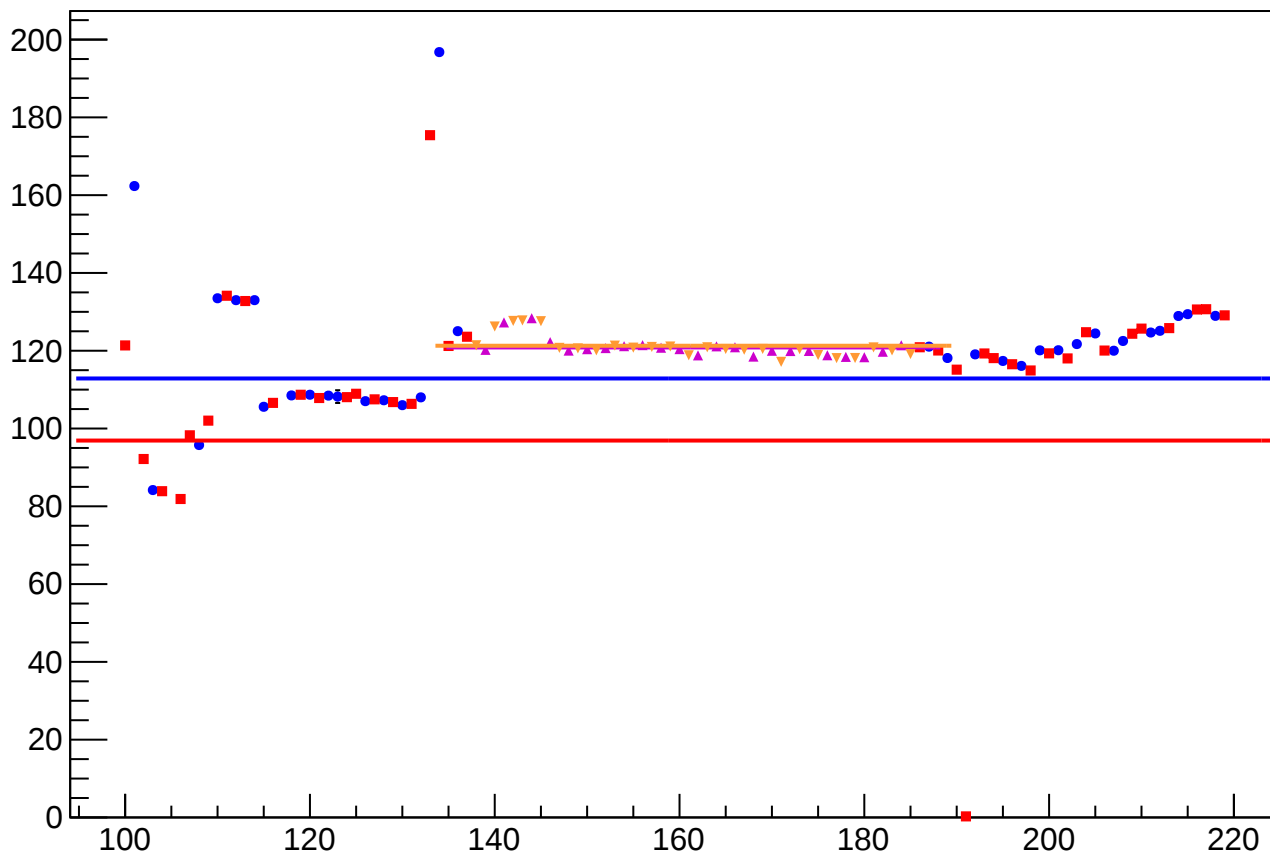
Right: -70.520 ± 0.993 $\chi^2/\text{NDF}: 3800.0/69$

In: -79.898 ± 0.751 $\chi^2/\text{NDF}: 2528.1/55$

Out: -76.509 ± 0.714 $\chi^2/\text{NDF}: 2947.7/61$

All: -78.118 ± 0.517 $\chi^2/\text{NDF}: 5486.5/117$

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 112.867 $\pm$ 0.068 χ^2 /NDF: 81767.5/32

Left Out: 121.283 $\pm$ 0.040 χ^2 /NDF: 4939.3/24

Right Out: 96.906 $\pm$ 0.061 χ^2 /NDF: 376441.4/36

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

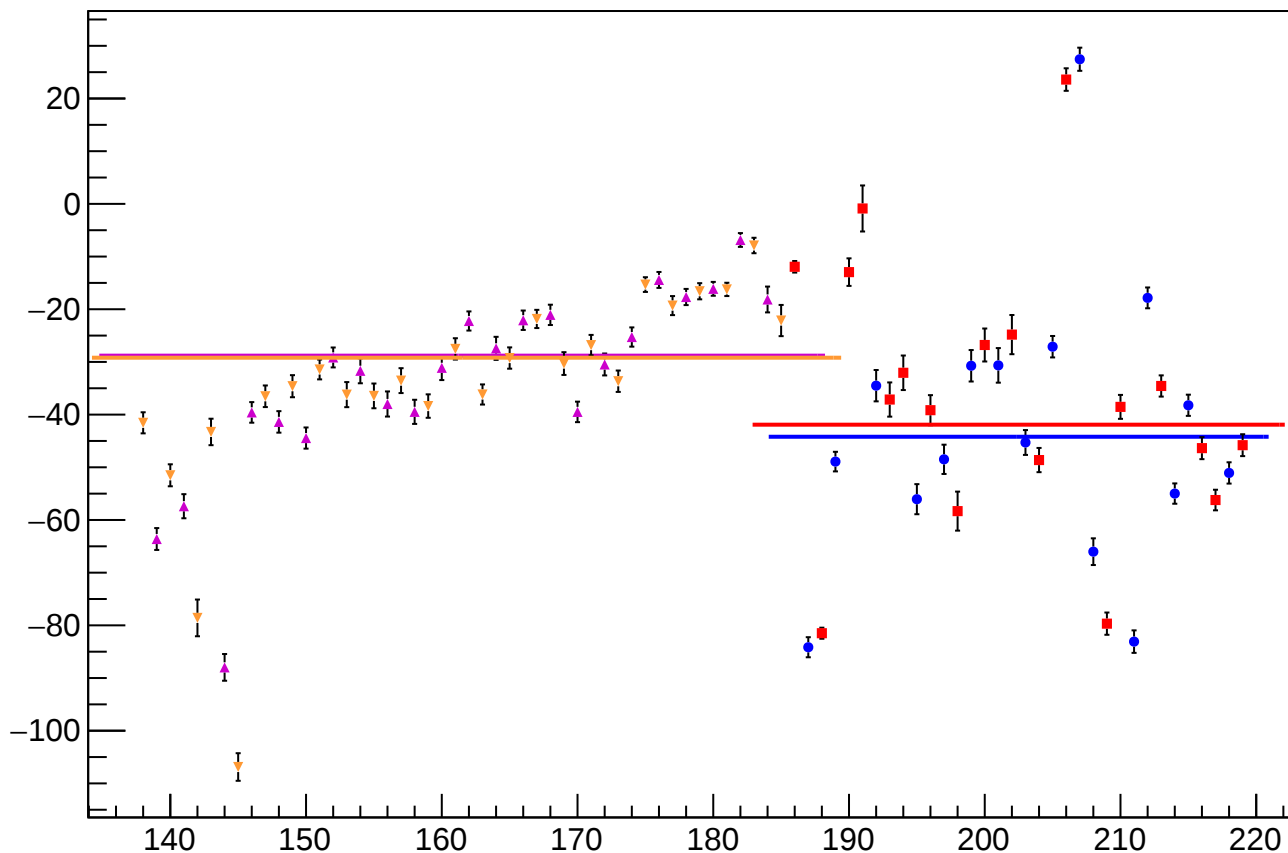
Right: 103.963 $\pm$ 0.045 χ^2 /NDF: 488596.3/69

In: 118.757 $\pm$ 0.035 χ^2 /NDF: 95180.8/55

Out: 113.907 $\pm$ 0.033 χ^2 /NDF: 493187.9/61

All: 116.227 $\pm$ 0.024 χ^2 /NDF: 598403.4/117

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -44.202 ± 0.563 χ^2/NDF : 2283.6/15

Left Out: -29.199 ± 0.389 χ^2/NDF : 1881.5/24

Right Out: -41.912 ± 0.483 χ^2/NDF : 3799.6/17

Left In: -28.810 ± 0.395 χ^2/NDF : 1763.8/22

Left: -29.008 ± 0.277 χ^2/NDF : 3645.8/47

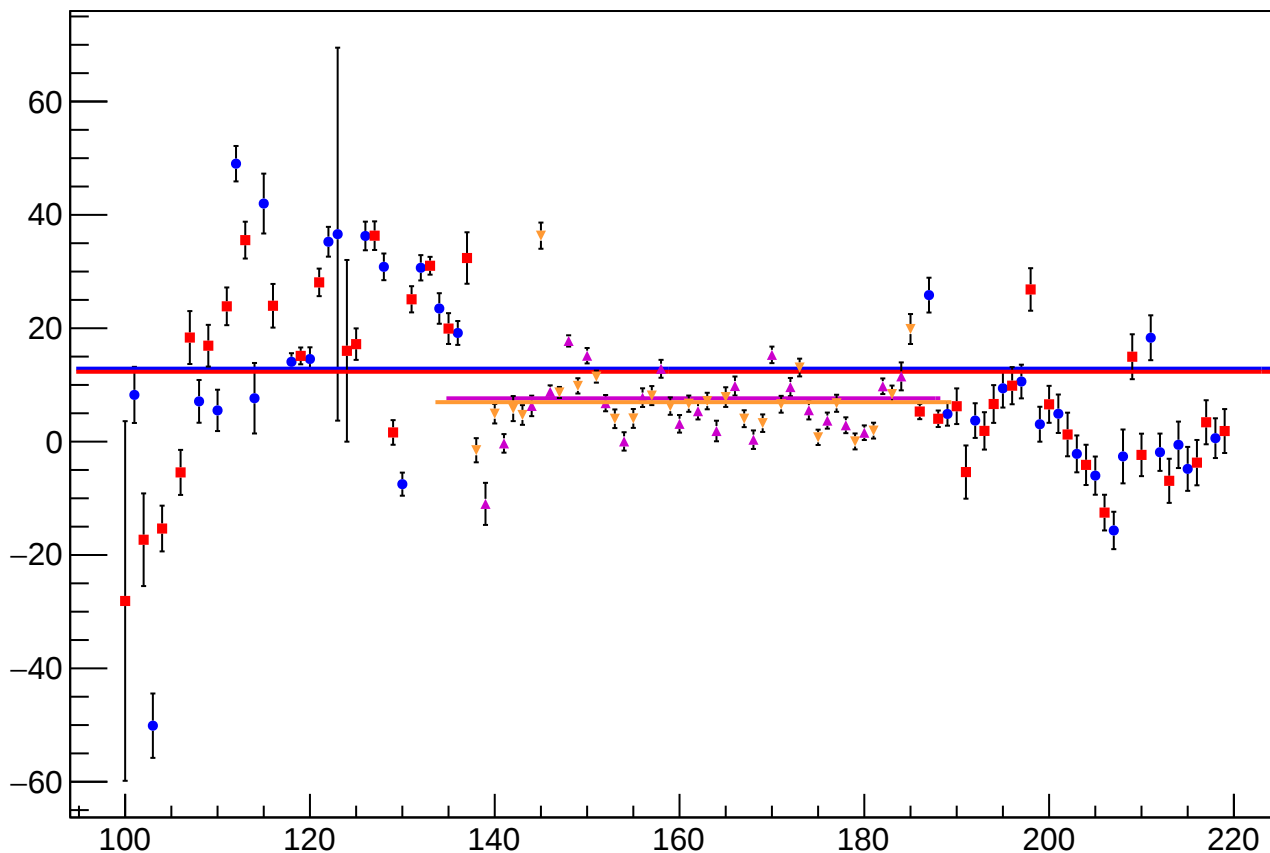
Right: -42.882 ± 0.367 χ^2/NDF : 6092.8/33

In: -33.893 ± 0.324 χ^2/NDF : 4548.1/38

Out: -34.195 ± 0.303 χ^2/NDF : 6101.8/42

All: -34.054 ± 0.221 χ^2/NDF : 10650.3/81

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.872 $\pm$ 0.509 χ^2/NDF : 965.0/32

Left Out: 6.960 $\pm$ 0.303 χ^2/NDF :321.3/24

Right Out: 12.326 $\pm$ 0.463 χ^2/NDF : 790.3/36

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

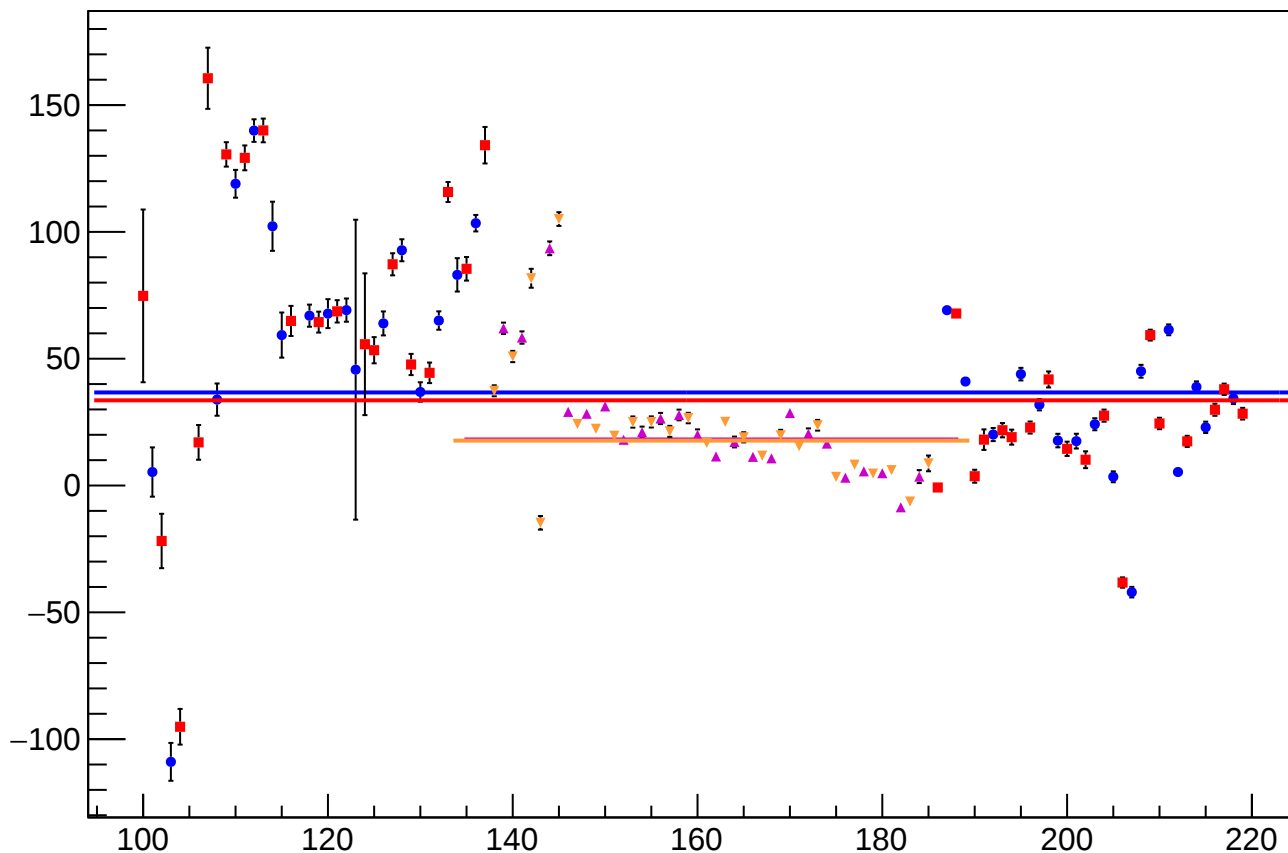
Right: 12.573 $\pm$ 0.342 χ^2/NDF : 1755.9/69

In: 9.078 $\pm$ 0.267 χ^2/NDF :1379.3/55

Out: 8.570 $\pm$ 0.253 χ^2/NDF :1205.7/61

All: 8.811 $\pm$ 0.184 χ^2/NDF : 2587.0/117

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 36.695 $\pm$ 0.494 χ^2 /NDF: 4775.5/32

Left Out: 17.705 $\pm$ 0.387 χ^2 /NDF:2432.2/24

Right Out: 33.593 $\pm$ 0.411 χ^2 /NDF: 7836.9/36

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

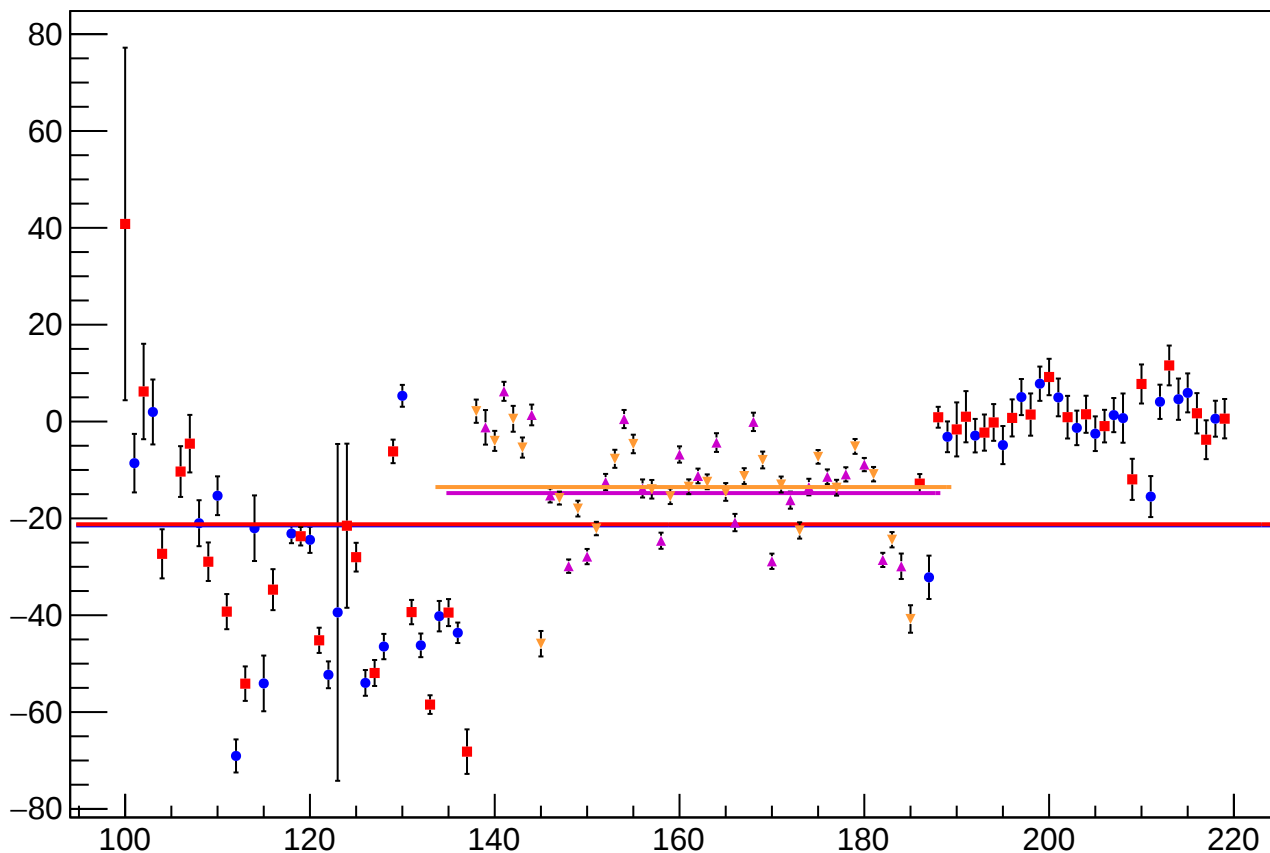
Right: 34.862 $\pm$ 0.316 χ^2 /NDF: 12635.7/69

In: 25.328 $\pm$ 0.307 χ^2 /NDF:7978.6/55

Out: 25.171 $\pm$ 0.282 χ^2 /NDF:11060.1/61

All: 25.243 $\pm$ 0.208 χ^2 /NDF: 19038.9/117

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -21.444 ± 0.586 $\chi^2/\text{NDF}: 1545.9/32$

Left Out: -13.531 ± 0.344 $\chi^2/\text{NDF}: 572.8/24$

Right Out: -21.216 ± 0.553 $\chi^2/\text{NDF}: 1611.9/36$

Left In: -14.778 ± 0.354 $\chi^2/\text{NDF}: 838.0/22$

Left: -14.136 ± 0.247 $\chi^2/\text{NDF}: 1417.2/47$

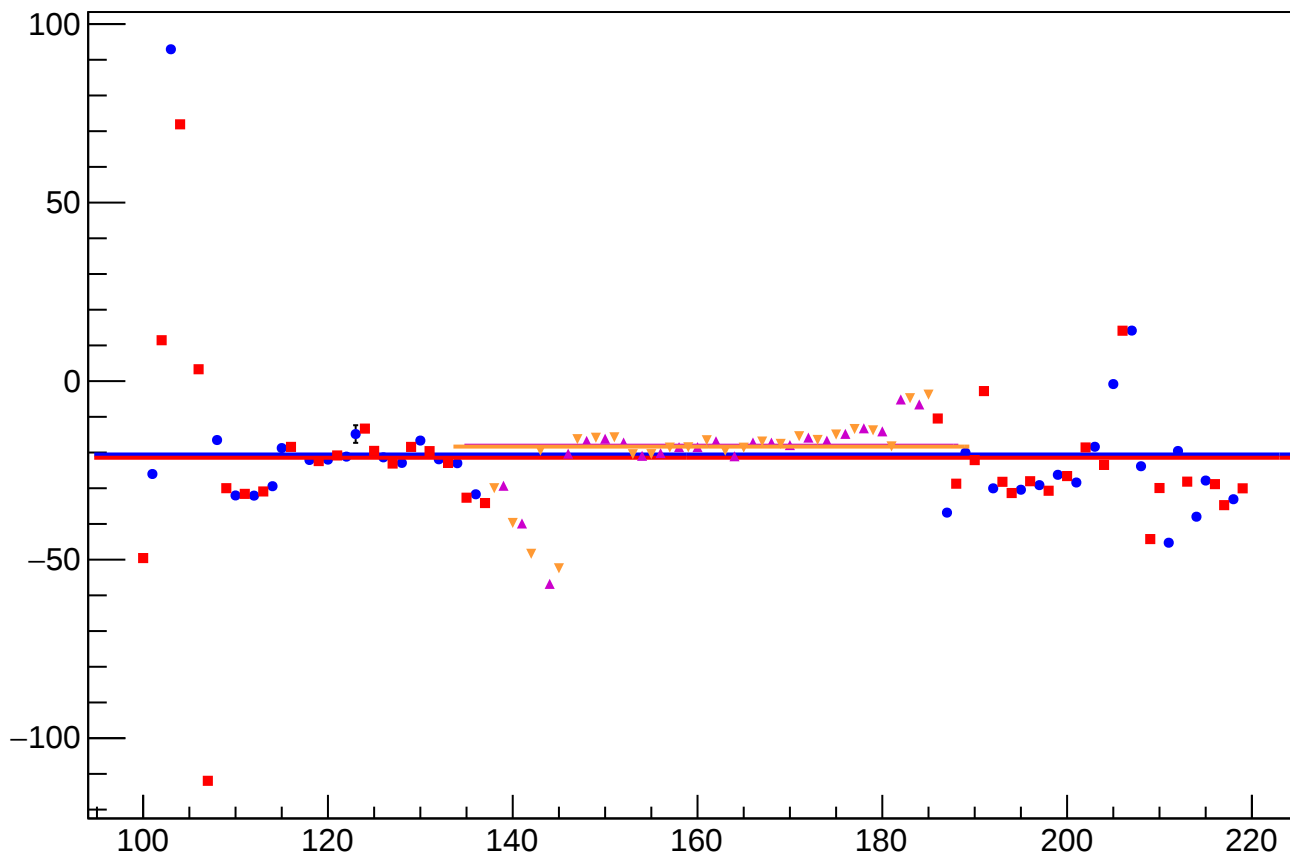
Right: -21.323 ± 0.402 $\chi^2/\text{NDF}: 3157.9/69$

In: -16.561 ± 0.303 $\chi^2/\text{NDF}: 2478.7/55$

Out: -15.678 ± 0.292 $\chi^2/\text{NDF}: 2324.2/61$

All: -16.103 ± 0.210 $\chi^2/\text{NDF}: 4807.2/117$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.546 $\pm$ 0.028 χ^2/NDF : 623044.4/32

Left Out: -18.334 $\pm$ 0.016 χ^2/NDF : 284152.1/24

Right Out: -21.457 $\pm$ 0.027 χ^2/NDF : 584818.5/36

Left In: -18.083 $\pm$ 0.016 χ^2/NDF : 241949.5/22

Left: -18.211 $\pm$ 0.011 χ^2/NDF : 526224.9/47

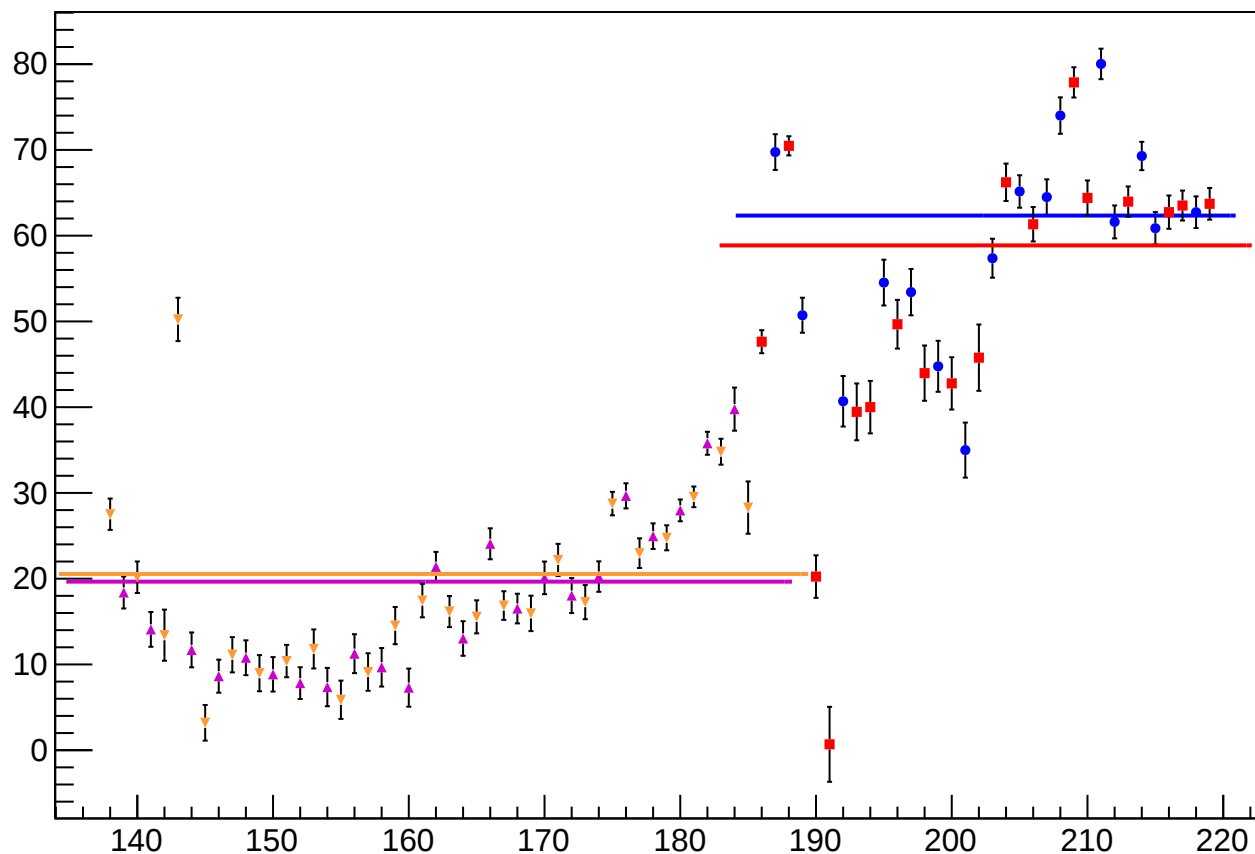
Right: -21.019 $\pm$ 0.019 χ^2/NDF : 1208408.3/69

In: -18.691 $\pm$ 0.014 χ^2/NDF : 870773.1/55

Out: -19.133 $\pm$ 0.014 χ^2/NDF : 878908.2/61

All: -18.916 $\pm$ 0.010 χ^2/NDF : 1750193.4/117

reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 62.343 $\pm$ 0.532 χ^2 /NDF: 381.5/15

Left Out: 20.550 $\pm$ 0.373 χ^2 /NDF: 626.4/24

Right Out: 58.865 $\pm$ 0.477 χ^2 /NDF: 903.7/17

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

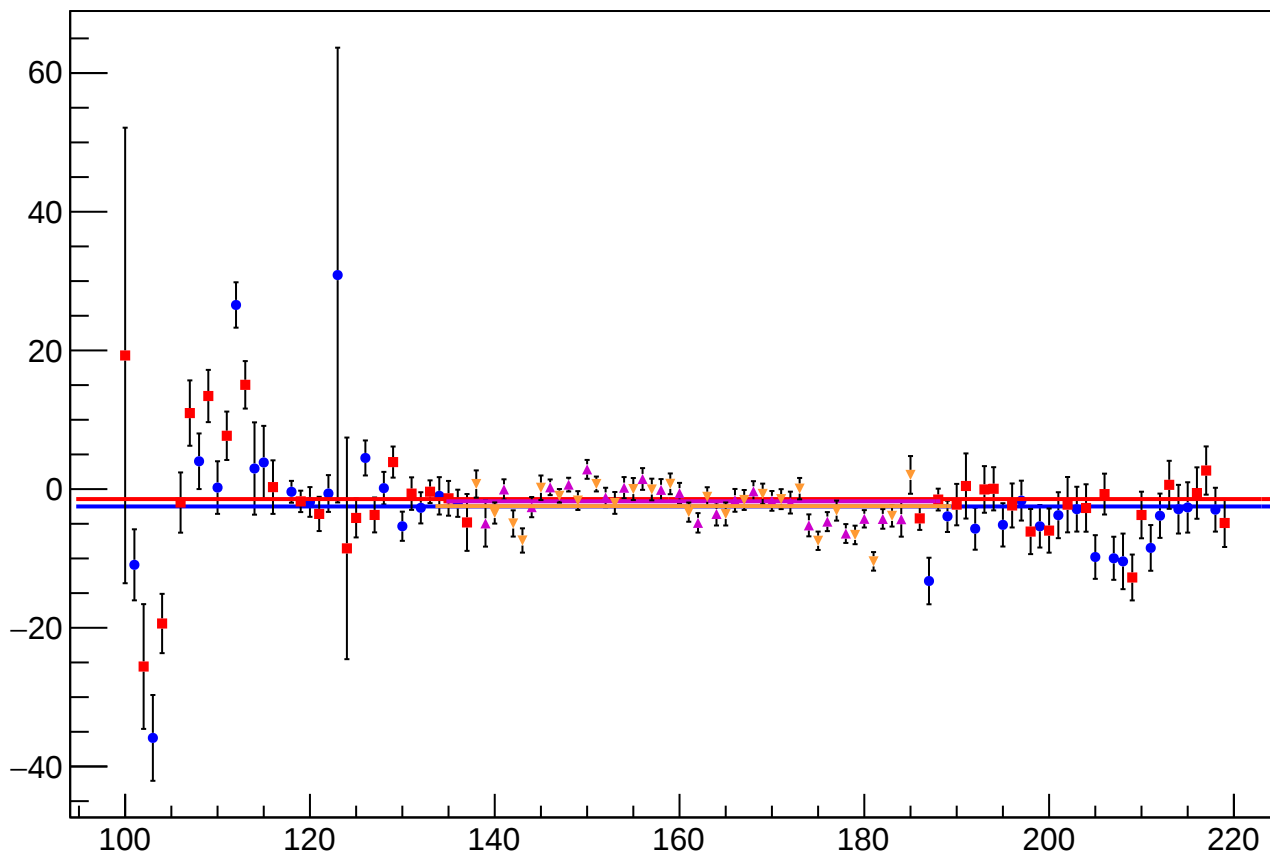
Right: 60.415 $\pm$ 0.355 χ^2 /NDF: 1308.9/33

In: 34.087 $\pm$ 0.309 χ^2 /NDF: 5210.4/38

Out: 35.082 $\pm$ 0.294 χ^2 /NDF: 5530.8/42

All: 34.610 $\pm$ 0.213 χ^2 /NDF: 10746.6/81

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.502 ± 0.507 χ^2/NDF : 162.7/32

Left Out: -2.455 ± 0.292 χ^2/NDF : 106.0/24

Right Out: -1.437 ± 0.472 χ^2/NDF : 110.4/36

Left In: -1.758 ± 0.302 χ^2/NDF : 67.4/22

Left: -2.118 ± 0.210 χ^2/NDF : 176.1/47

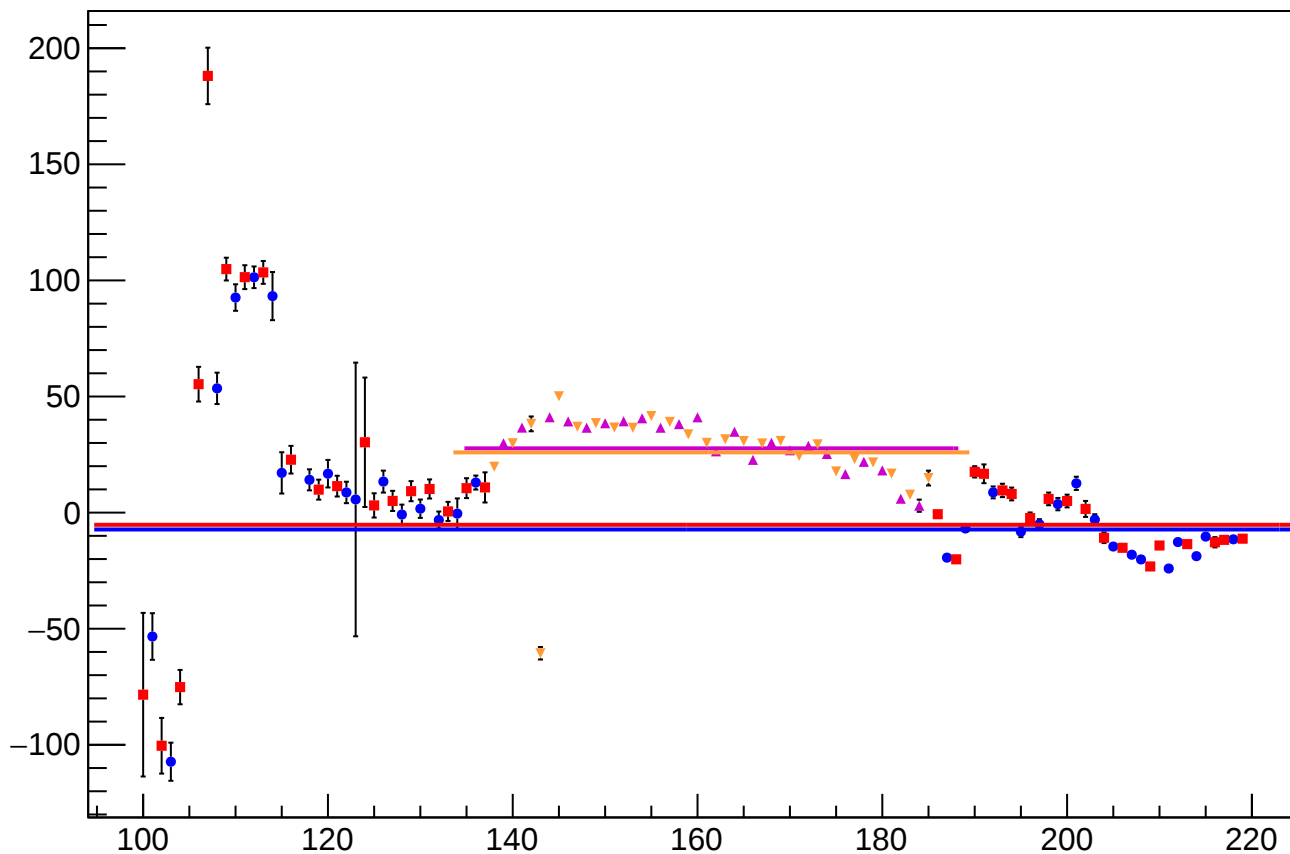
Right: -1.932 ± 0.345 χ^2/NDF : 275.4/69

In: -1.953 ± 0.259 χ^2/NDF : 231.7/55

Out: -2.173 ± 0.248 χ^2/NDF : 219.7/61

All: -2.068 ± 0.179 χ^2/NDF : 451.8/117

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -7.265 ± 0.478 χ^2/NDF : 1705.9/32

Left Out: 25.938 ± 0.372 χ^2/NDF : 1711.6/24

Right Out: -5.243 ± 0.418 χ^2/NDF : 2696.2/36

Left In: 27.677 ± 0.378 χ^2/NDF : 803.9/22

Left: 26.794 ± 0.265 χ^2/NDF : 2526.2/47

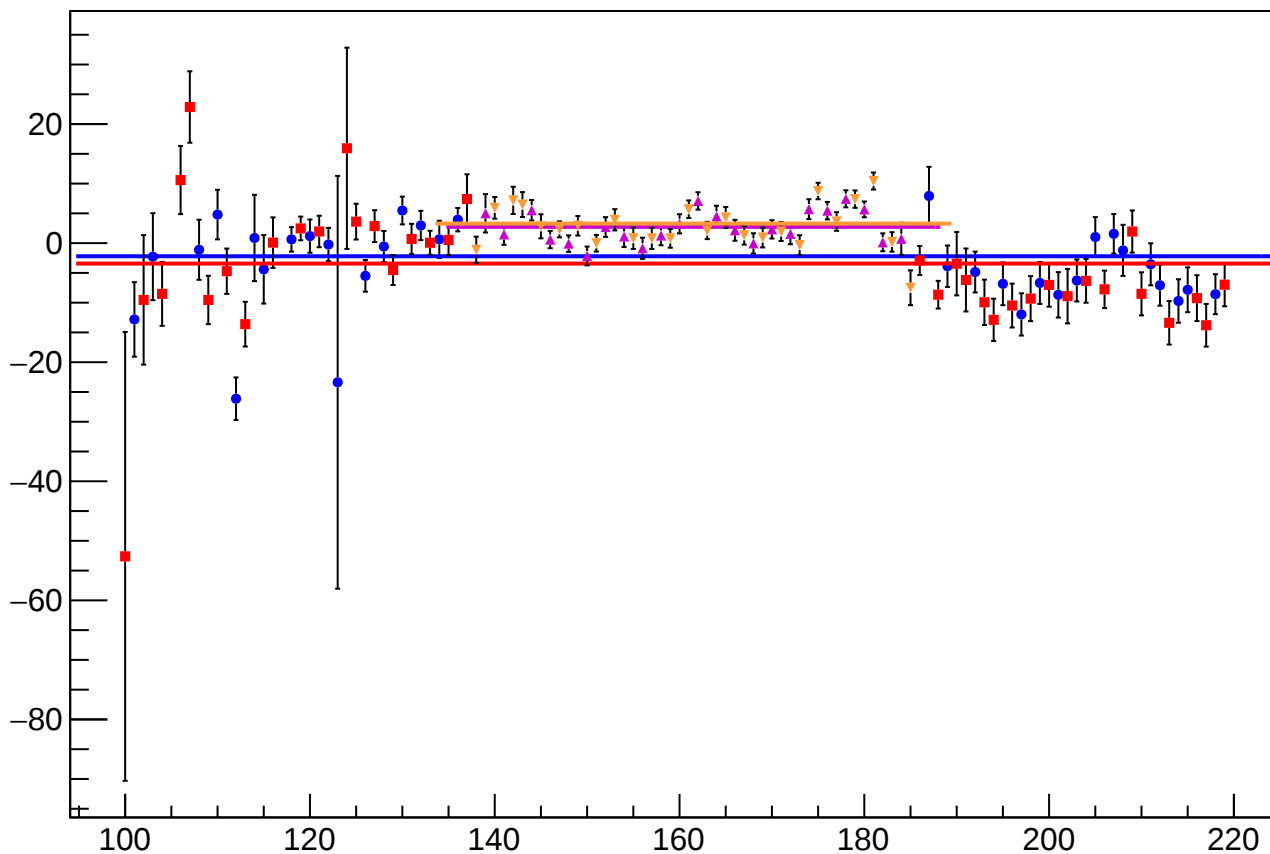
Right: -6.119 ± 0.315 χ^2/NDF : 4412.2/69

In: 14.221 ± 0.297 χ^2/NDF : 5796.6/55

Out: 12.138 ± 0.278 χ^2/NDF : 7511.7/61

All: 13.112 ± 0.203 χ^2/NDF : 13334.6/117

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -2.207 ± 0.578 χ^2/NDF : 117.6/32

Left Out: 3.283 ± 0.331 χ^2/NDF : 102.3/24

Right Out: -3.431 ± 0.555 χ^2/NDF : 128.5/36

Left In: 2.738 ± 0.341 χ^2/NDF : 64.5/22

Left: 3.018 ± 0.238 χ^2/NDF : 168.1/47

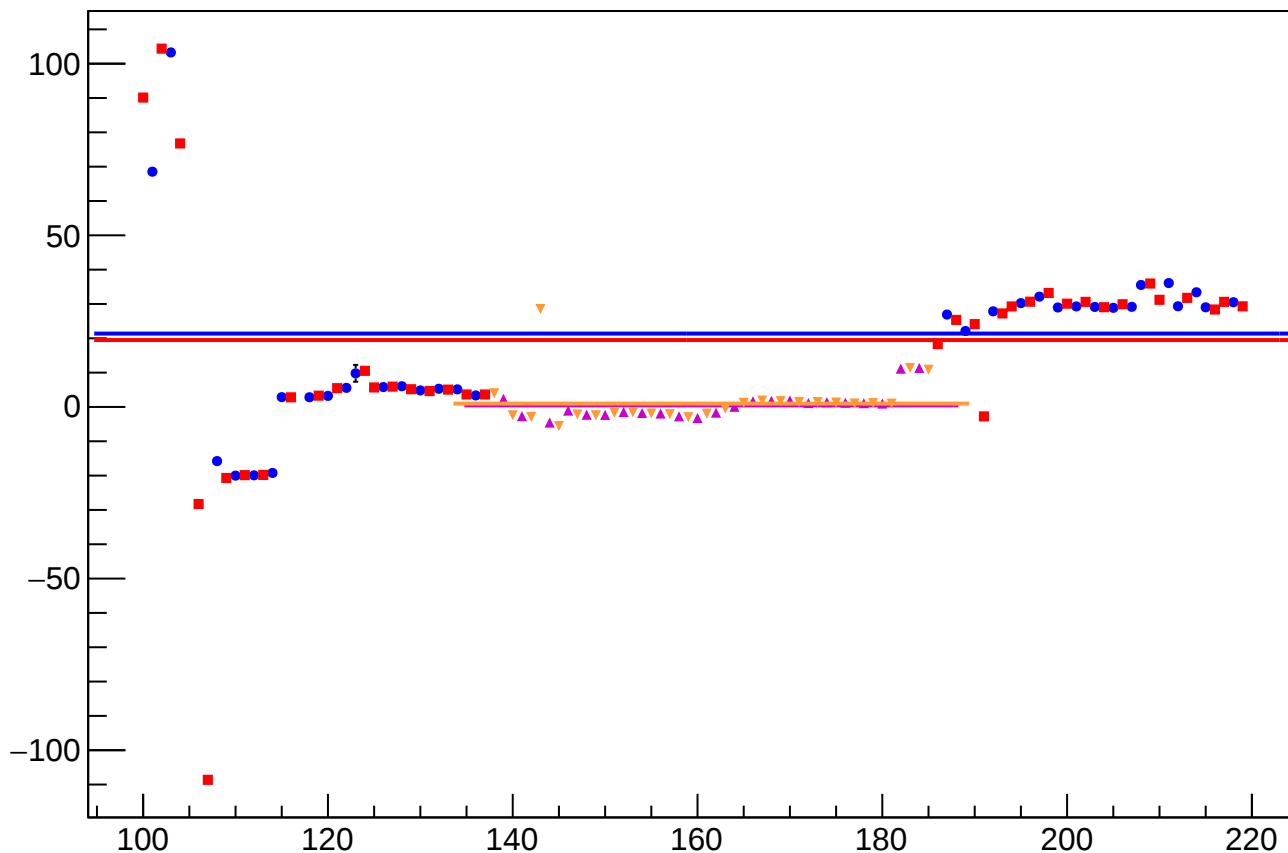
Right: -2.844 ± 0.400 χ^2/NDF : 248.4/69

In: 1.460 ± 0.294 χ^2/NDF : 236.3/55

Out: 1.520 ± 0.285 χ^2/NDF : 338.6/61

All: 1.491 ± 0.204 χ^2/NDF : 574.9/117

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 21.376+/-0.027 χ^2/NDF : 516465.0/32

Left Out: 0.979+/-0.015 χ^2/NDF : 117391.3/24

Right Out: 19.491+/-0.027 χ^2/NDF : 751955.1/36

Left In: 0.451+/-0.015 χ^2/NDF : 50699.8/22

Left: 0.719+/-0.011 χ^2/NDF : 168685.3/47

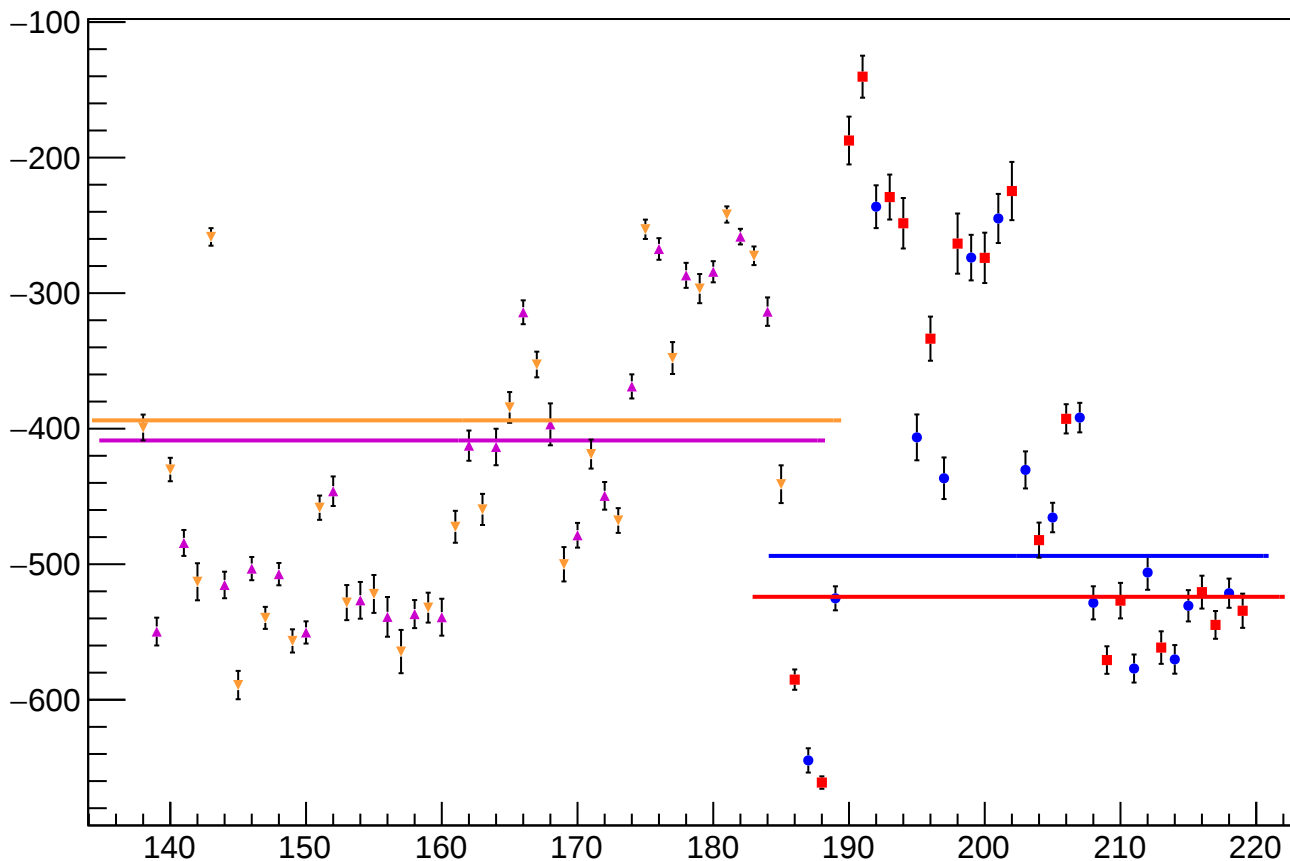
Right: 20.405+/-0.019 χ^2/NDF : 1270861.3/69

In: 5.497+/-0.013 χ^2/NDF : 1010530.5/55

Out: 5.541+/-0.013 χ^2/NDF : 1235312.1/61

All: 5.519+/-0.009 χ^2/NDF : 2245848.1/117

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -493.865+/-2.975 χ^2/NDF : 1221.2/15

Left Out: -393.871+/-1.897 χ^2/NDF : 3772.8/24

Right Out: -524.047+/-2.586 χ^2/NDF : 3313.5/17

Left In: -408.696+/-1.979 χ^2/NDF : 3062.9/22

Left: -400.970+/-1.369 χ^2/NDF : 6864.9/47

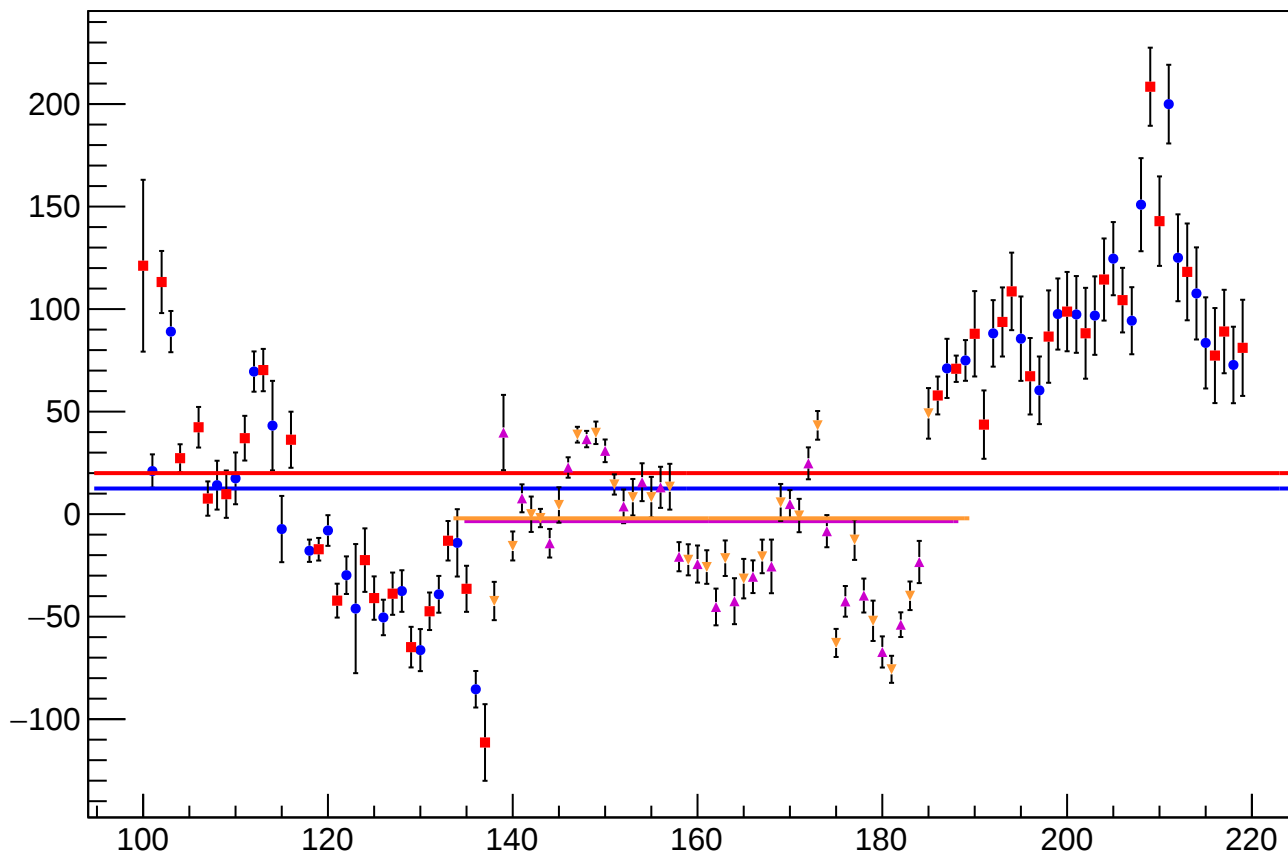
Right: -511.056+/-1.951 χ^2/NDF : 4593.3/33

In: -434.828+/-1.648 χ^2/NDF : 4852.3/38

Out: -439.422+/-1.530 χ^2/NDF : 8734.0/42

All: -437.295+/-1.121 χ^2/NDF : 13590.5/81

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.497 ± 2.063 $\chi^2/\text{NDF}: 879.4/32$

Left Out: -2.037 ± 1.424 $\chi^2/\text{NDF}: 563.8/24$

Right Out: 20.000 ± 1.915 $\chi^2/\text{NDF}: 866.6/36$

Left In: -3.420 ± 1.520 $\chi^2/\text{NDF}: 451.0/22$

Left: -2.683 ± 1.039 $\chi^2/\text{NDF}: 1015.2/47$

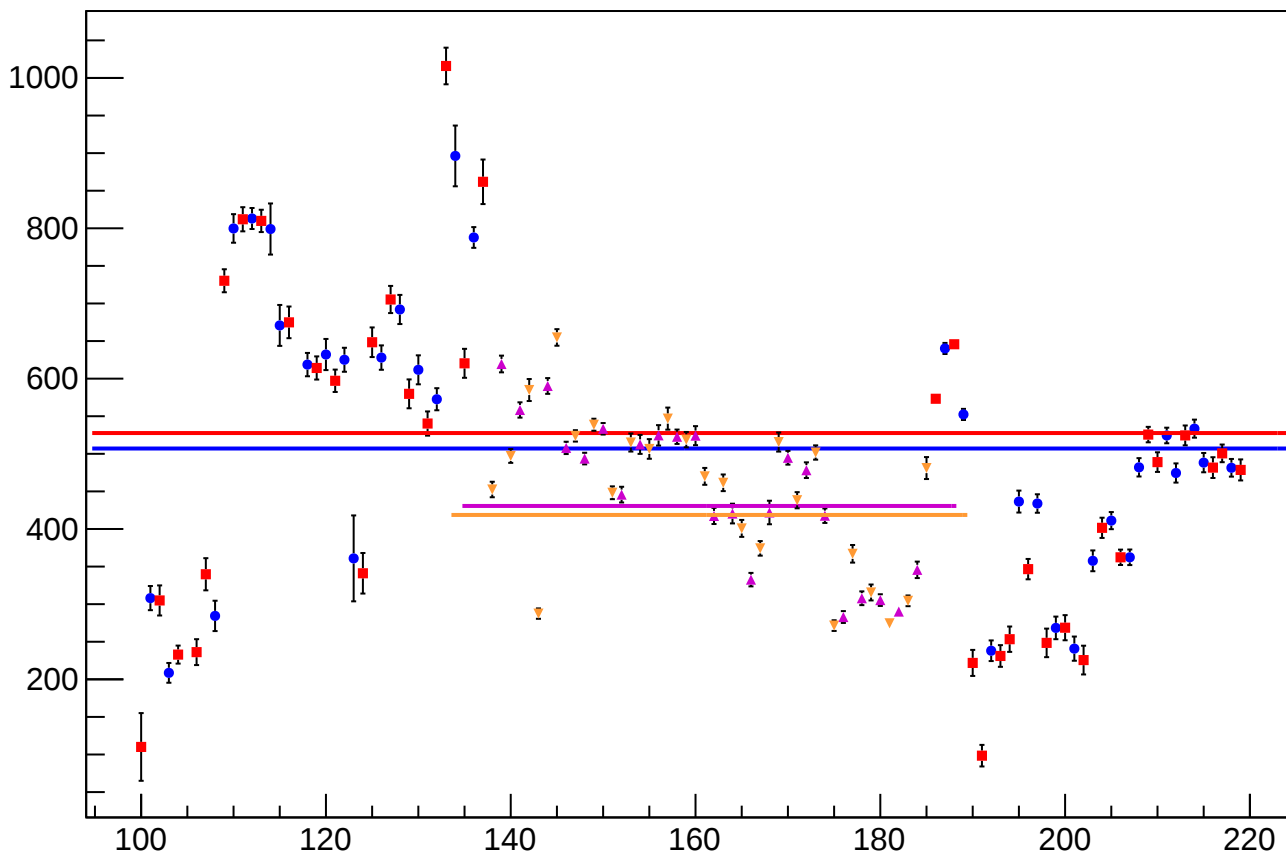
Right: 16.527 ± 1.404 $\chi^2/\text{NDF}: 1753.2/69$

In: 2.180 ± 1.224 $\chi^2/\text{NDF}: 1369.0/55$

Out: 5.808 ± 1.143 $\chi^2/\text{NDF}: 1515.7/61$

All: 4.118 ± 0.835 $\chi^2/\text{NDF}: 2889.3/117$

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 507.051 $\pm$ 2.365 χ^2 /NDF: 4209.4/32

Left Out: 418.680 $\pm$ 1.905 χ^2 /NDF:3296.5/24

Right Out: 527.637 $\pm$ 2.023 χ^2 /NDF: 7118.8/36

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

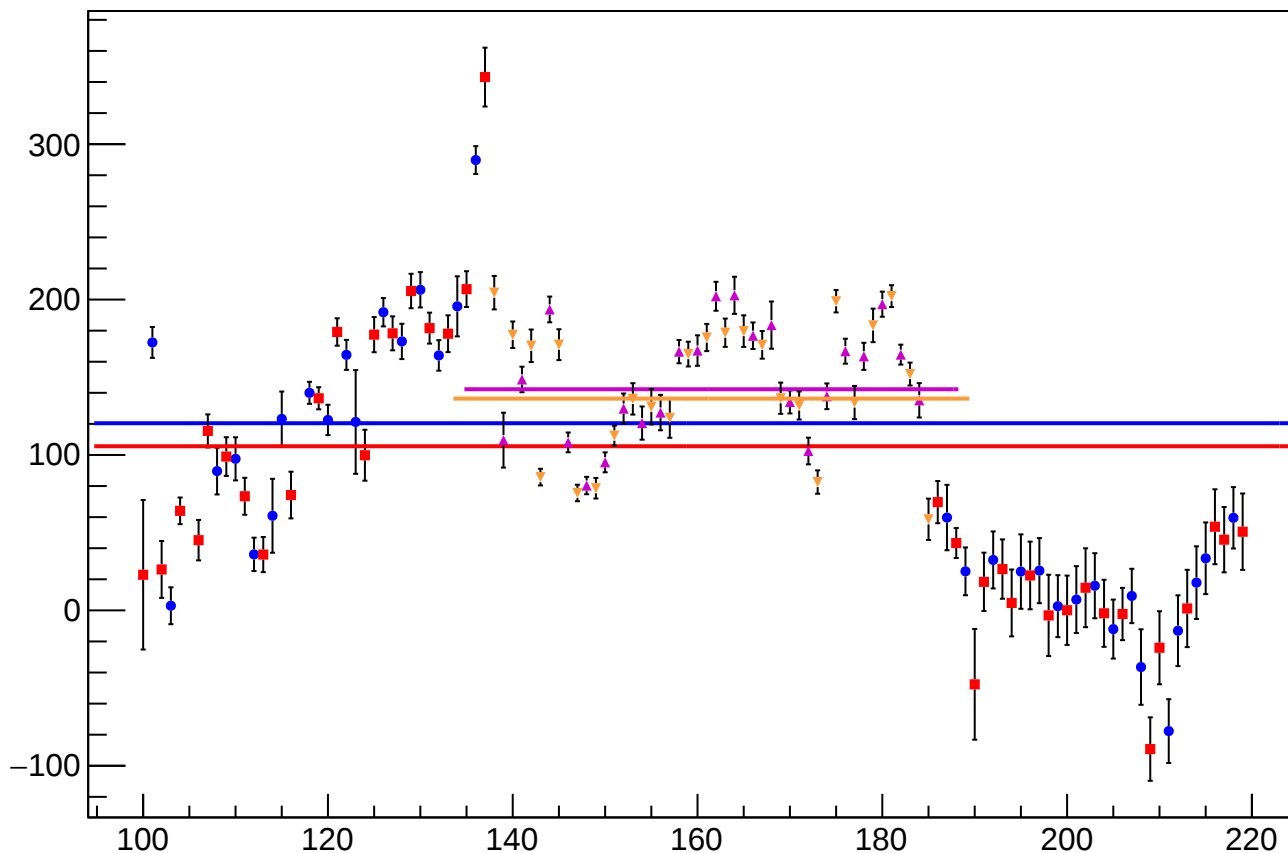
Right: 518.937 $\pm$ 1.537 χ^2 /NDF: 11371.9/69

In: 461.960 $\pm$ 1.514 χ^2 /NDF:7676.1/55

Out: 469.888 $\pm$ 1.387 χ^2 /NDF:11953.0/61

All: 466.271 $\pm$ 1.023 χ^2 /NDF: 19644.0/117

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 120.428 $\pm$ 2.395 χ^2 /NDF: 1257.1/32

Left Out: 136.258 $\pm$ 1.651 χ^2 /NDF: 758.3/24

Right Out: 105.616 $\pm$ 2.266 χ^2 /NDF: 1119.7/36

Left In: 142.296 $\pm$ 1.745 χ^2 /NDF: 459.8/22

Left: 139.111 $\pm$ 1.199 χ^2 /NDF: 1224.4/47

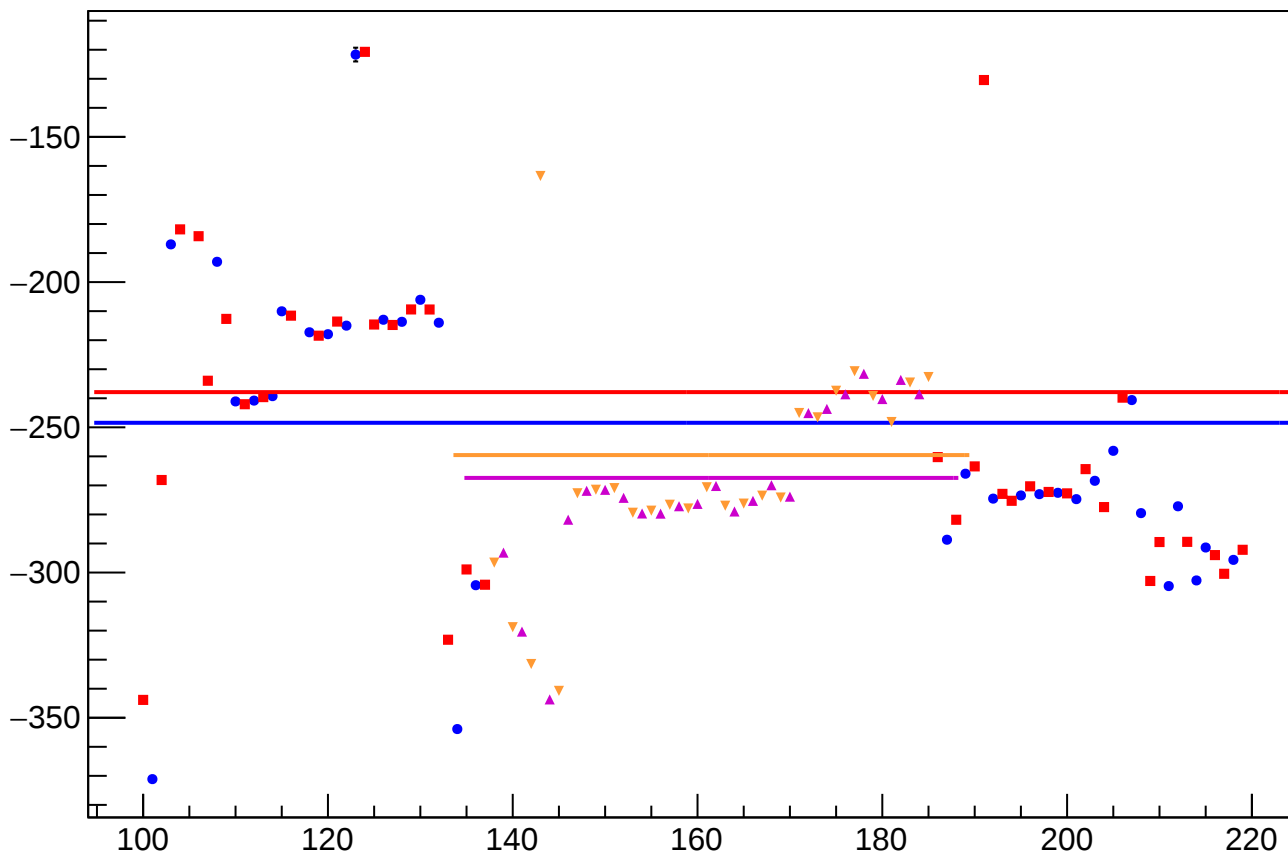
Right: 112.614 $\pm$ 1.646 χ^2 /NDF: 2397.0/69

In: 134.713 $\pm$ 1.410 χ^2 /NDF: 1771.3/55

Out: 125.634 $\pm$ 1.334 χ^2 /NDF: 1997.5/61

All: 129.923 $\pm$ 0.969 χ^2 /NDF: 3790.6/117

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -248.439+/-0.119 χ^2 /NDF: 174405.0/32

Left Out: -259.557+/-0.079 χ^2 /NDF:238235.2/24

Right Out: -237.880+/-0.111 χ^2 /NDF: 189121.1/36

Left In: -267.417+/-0.082 χ^2 /NDF:98035.5/22

Left: -263.361+/-0.057 χ^2 /NDF: 341051.4/47

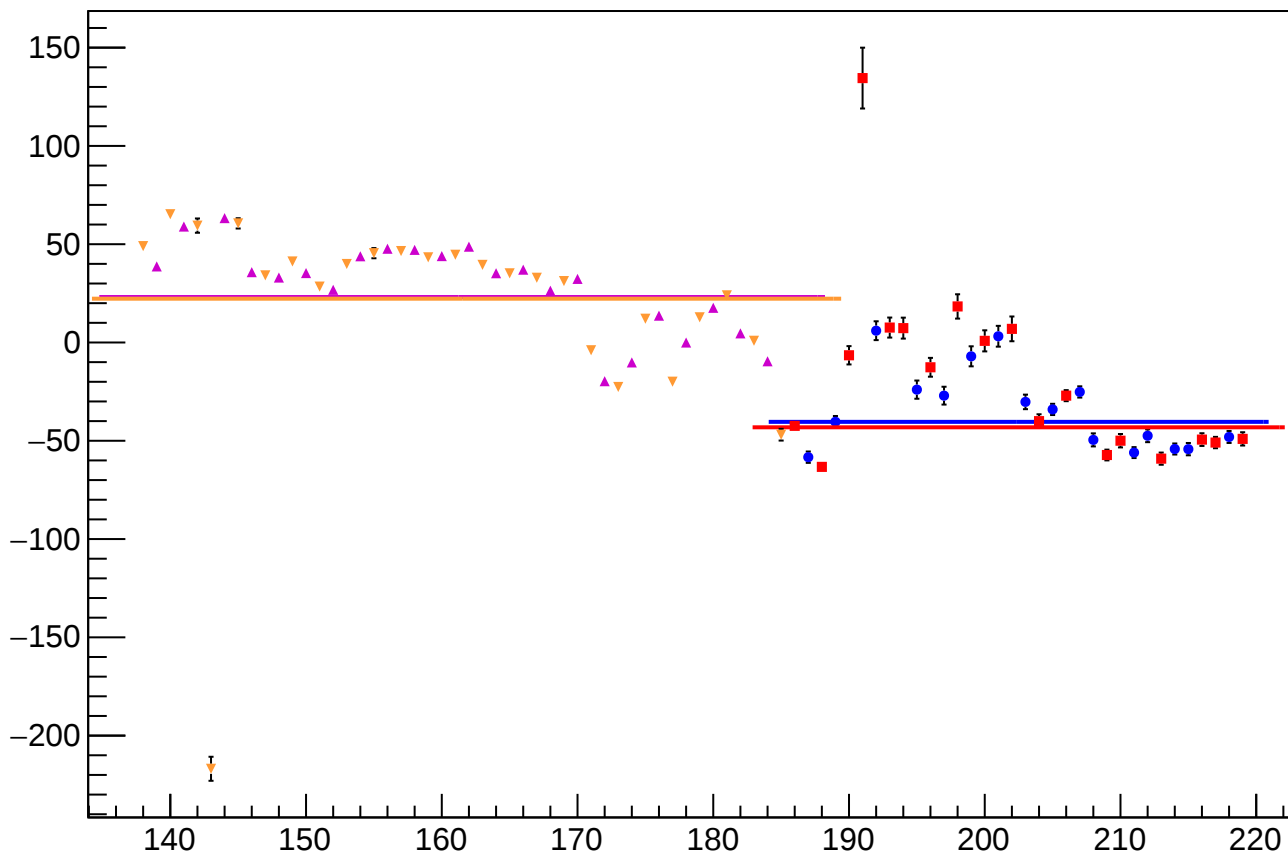
Right: -242.794+/-0.081 χ^2 /NDF: 367721.5/69

In: -261.354+/-0.067 χ^2 /NDF:289691.9/55

Out: -252.276+/-0.064 χ^2 /NDF:452586.6/61

All: -256.614+/-0.047 χ^2 /NDF: 751756.7/117

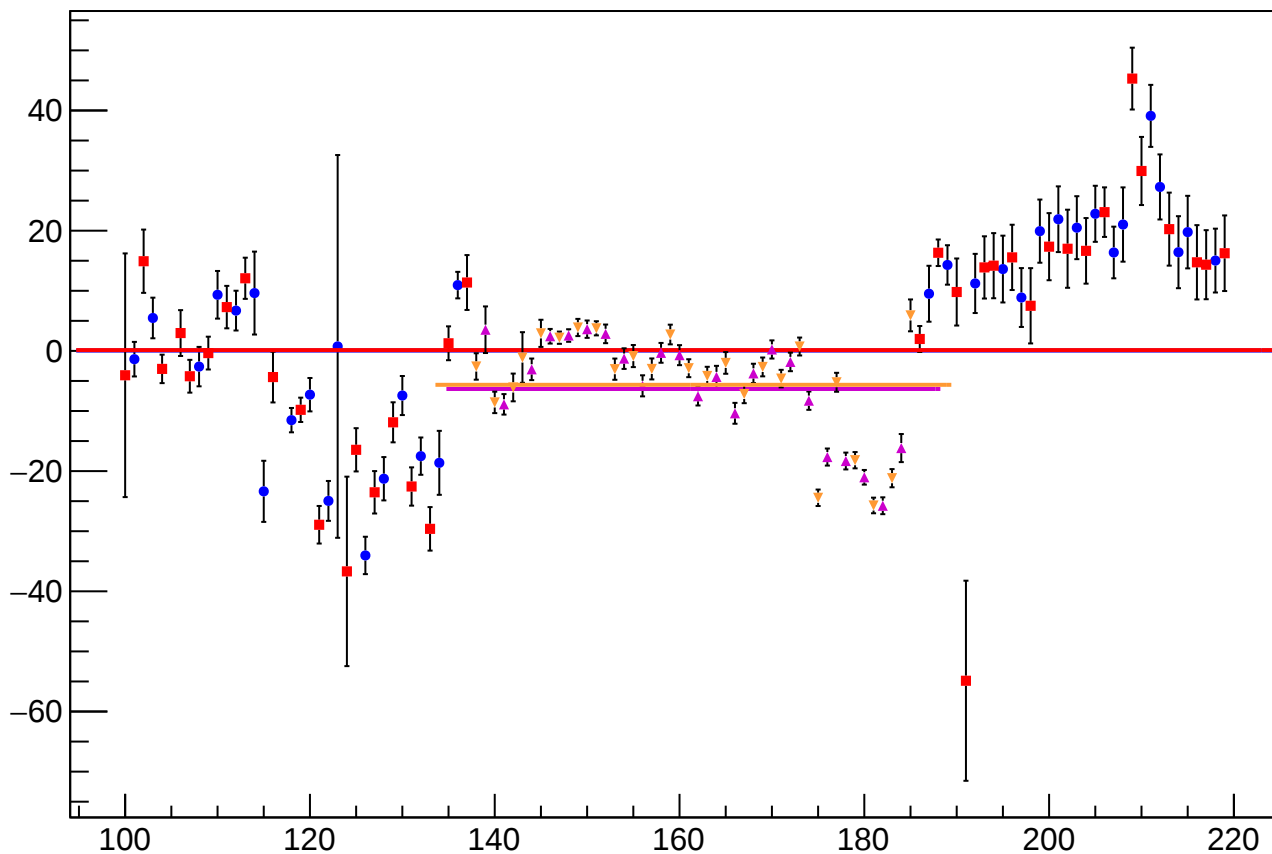
reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -40.378 ± 0.841 $\chi^2/\text{NDF}: 398.7/15$
 Left Out: 22.279 ± 0.399 $\chi^2/\text{NDF}: 5171.0/24$
 Right Out: -43.153 ± 0.740 $\chi^2/\text{NDF}: 923.4/17$
 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: -41.942 ± 0.556 $\chi^2/\text{NDF}: 1328.2/33$
 In: 11.347 ± 0.362 $\chi^2/\text{NDF}: 7789.5/38$
 Out: 7.555 ± 0.351 $\chi^2/\text{NDF}: 12153.4/42$
 All: 9.391 ± 0.252 $\chi^2/\text{NDF}: 19999.4/81$

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.059 ± 0.667 $\chi^2/\text{NDF}: 603.0/32$

Left Out: -5.642 ± 0.316 $\chi^2/\text{NDF}: 893.7/24$

Right Out: 0.132 ± 0.616 $\chi^2/\text{NDF}: 632.0/36$

Left In: -6.337 ± 0.321 $\chi^2/\text{NDF}: 783.0/22$

Left: -5.983 ± 0.225 $\chi^2/\text{NDF}: 1679.1/47$

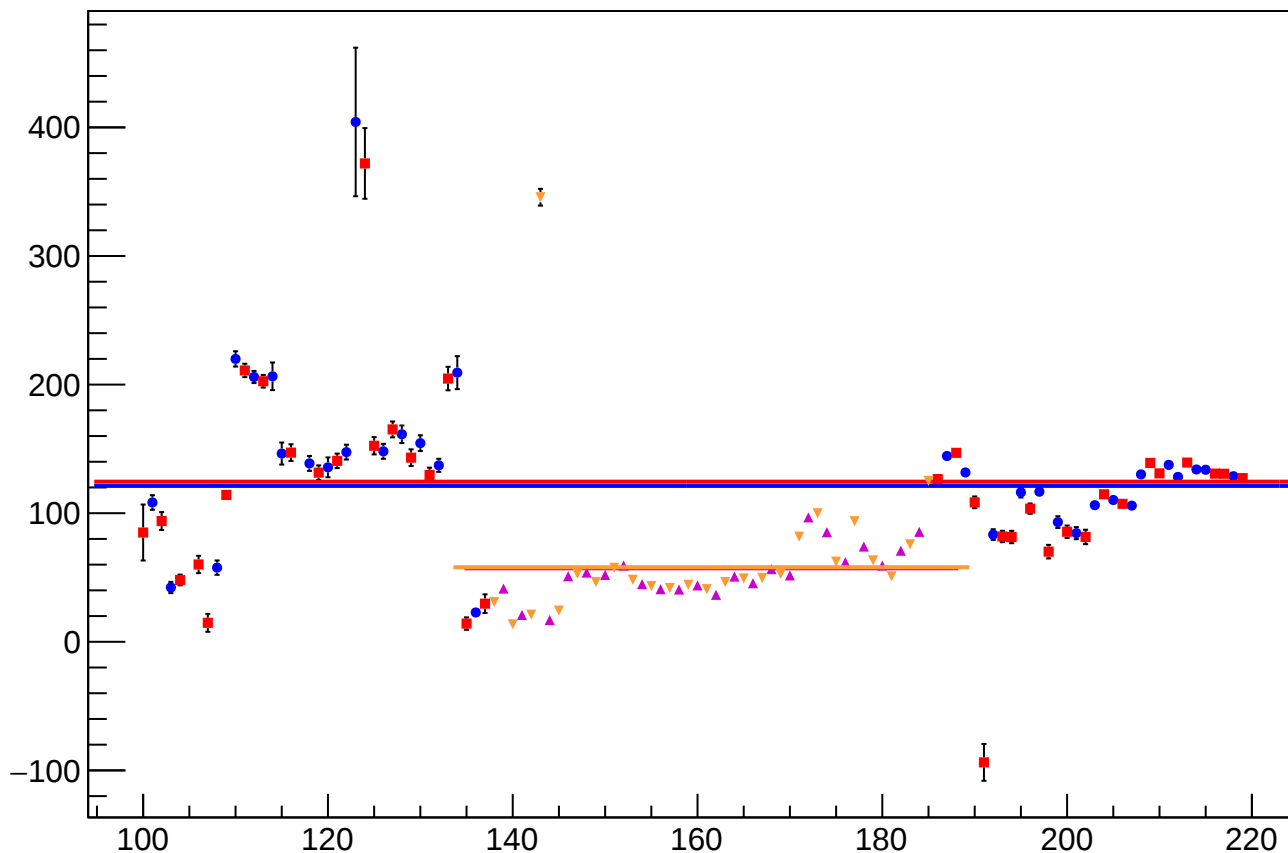
Right: 0.098 ± 0.452 $\chi^2/\text{NDF}: 1235.0/69$

In: -5.132 ± 0.289 $\chi^2/\text{NDF}: 1460.7/55$

Out: -4.442 ± 0.281 $\chi^2/\text{NDF}: 1595.3/61$

All: -4.777 ± 0.202 $\chi^2/\text{NDF}: 3058.9/117$

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 121.237 $\pm$ 0.703 χ^2 /NDF: 2607.7/32

Left Out: 57.990 $\pm$ 0.398 χ^2 /NDF:4635.7/24

Right Out: 124.520 $\pm$ 0.603 χ^2 /NDF: 3279.8/36

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

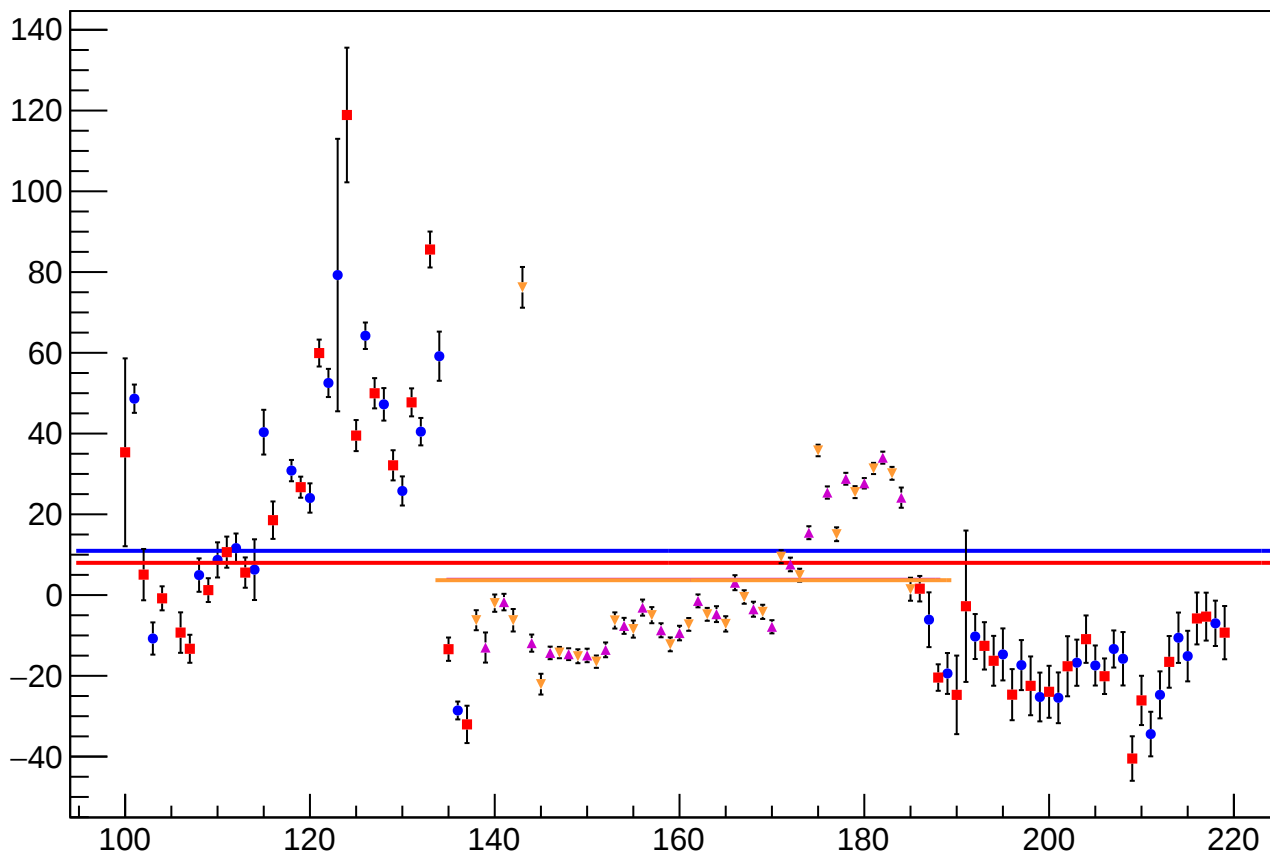
Right: 123.130 $\pm$ 0.457 χ^2 /NDF: 5900.0/69

In: 72.790 $\pm$ 0.347 χ^2 /NDF:10695.1/55

Out: 78.195 $\pm$ 0.332 χ^2 /NDF:16404.2/61

All: 75.614 $\pm$ 0.240 χ^2 /NDF: 27225.8/117

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.957 ± 0.763 $\chi^2/\text{NDF}: 1619.4/32$

Left Out: 3.684 ± 0.357 $\chi^2/\text{NDF}: 2541.7/24$

Right Out: 7.981 ± 0.725 $\chi^2/\text{NDF}: 1599.1/36$

Left In: 3.786 ± 0.362 $\chi^2/\text{NDF}: 2198.8/22$

Left: 3.734 ± 0.254 $\chi^2/\text{NDF}: 4740.5/47$

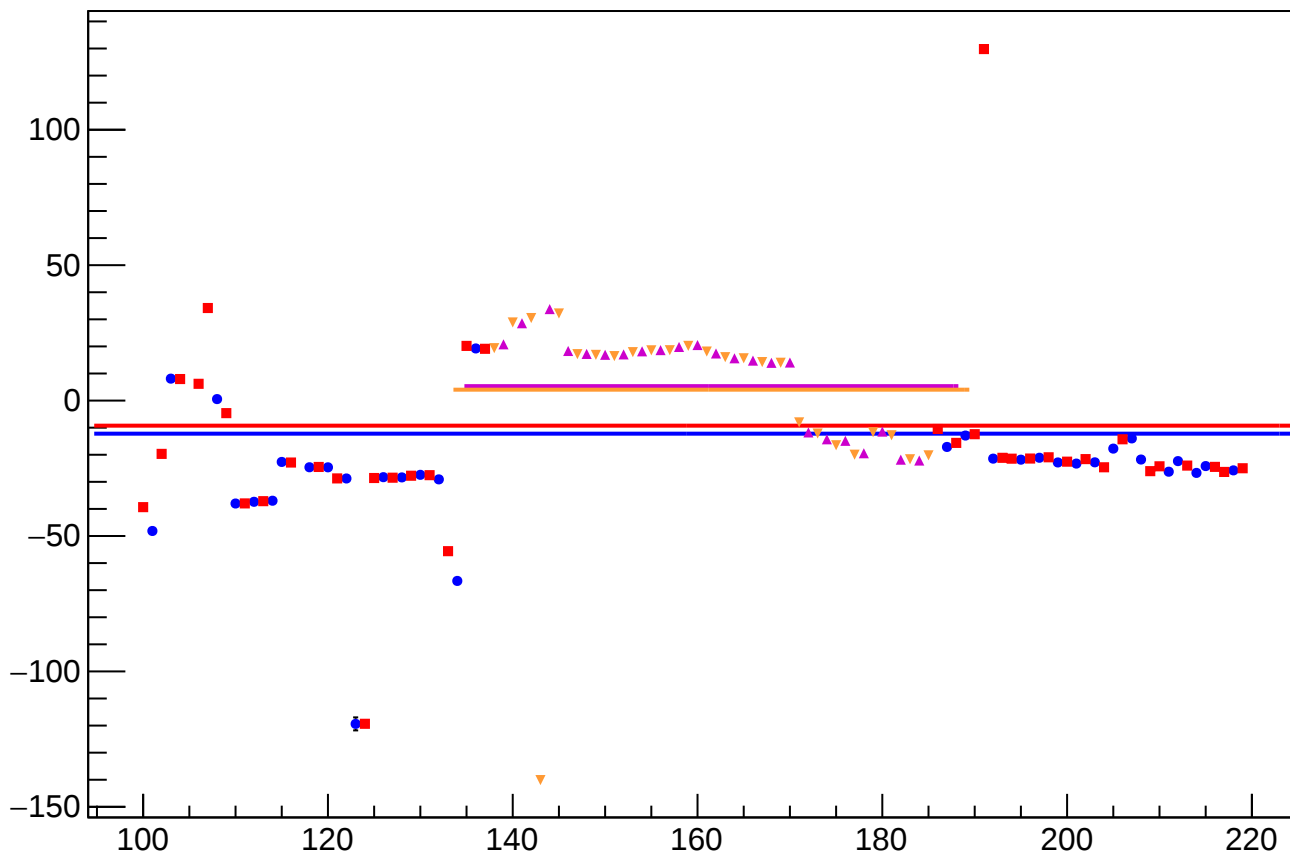
Right: 9.393 ± 0.526 $\chi^2/\text{NDF}: 3226.5/69$

In: 5.101 ± 0.327 $\chi^2/\text{NDF}: 3890.3/55$

Out: 4.522 ± 0.320 $\chi^2/\text{NDF}: 4169.0/61$

All: 4.805 ± 0.229 $\chi^2/\text{NDF}: 8060.9/117$

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -12.215 ± 0.036 χ^2/NDF : 308854.5/32

Left Out: 4.026 ± 0.016 χ^2/NDF : 1383143.9/24

Right Out: -9.259 ± 0.035 χ^2/NDF : 403282.2/36

Left In: 5.335 ± 0.016 χ^2/NDF : 1077818.8/22

Left: 4.678 ± 0.012 χ^2/NDF : 2464153.9/47

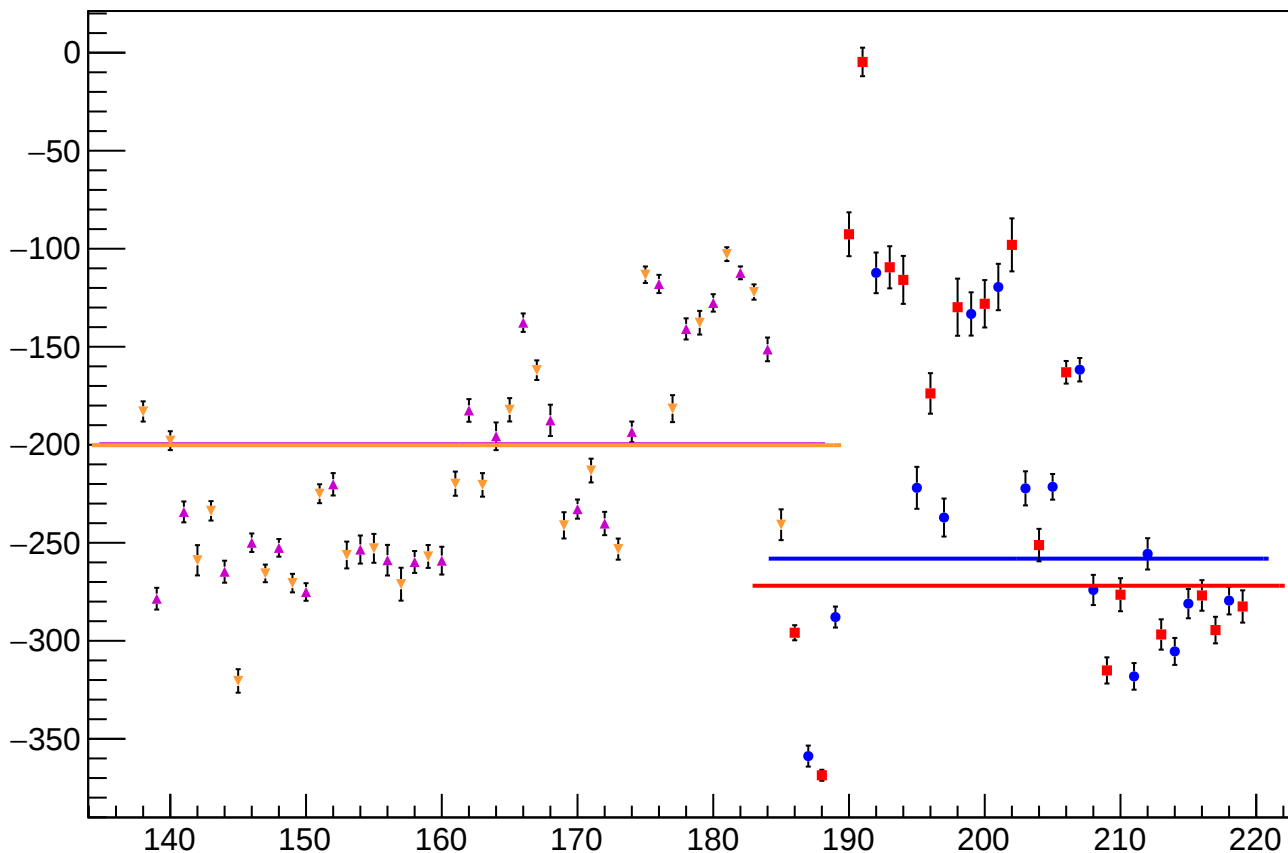
Right: -10.703 ± 0.025 χ^2/NDF : 715632.2/69

In: 2.278 ± 0.015 χ^2/NDF : 1585586.9/55

Out: 1.638 ± 0.015 χ^2/NDF : 1904906.9/61

All: 1.955 ± 0.011 χ^2/NDF : 3491420.9/117

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -258.086+/-1.851 χ^2 /NDF: 1320.1/15

Left Out: -200.228+/-1.078 χ^2 /NDF:3225.0/24

Right Out: -271.908+/-1.556 χ^2 /NDF: 4136.0/17

Left In: -199.739+/-1.097 χ^2 /NDF:2968.0/22

Left: -199.988+/-0.769 χ^2 /NDF: 6193.2/47

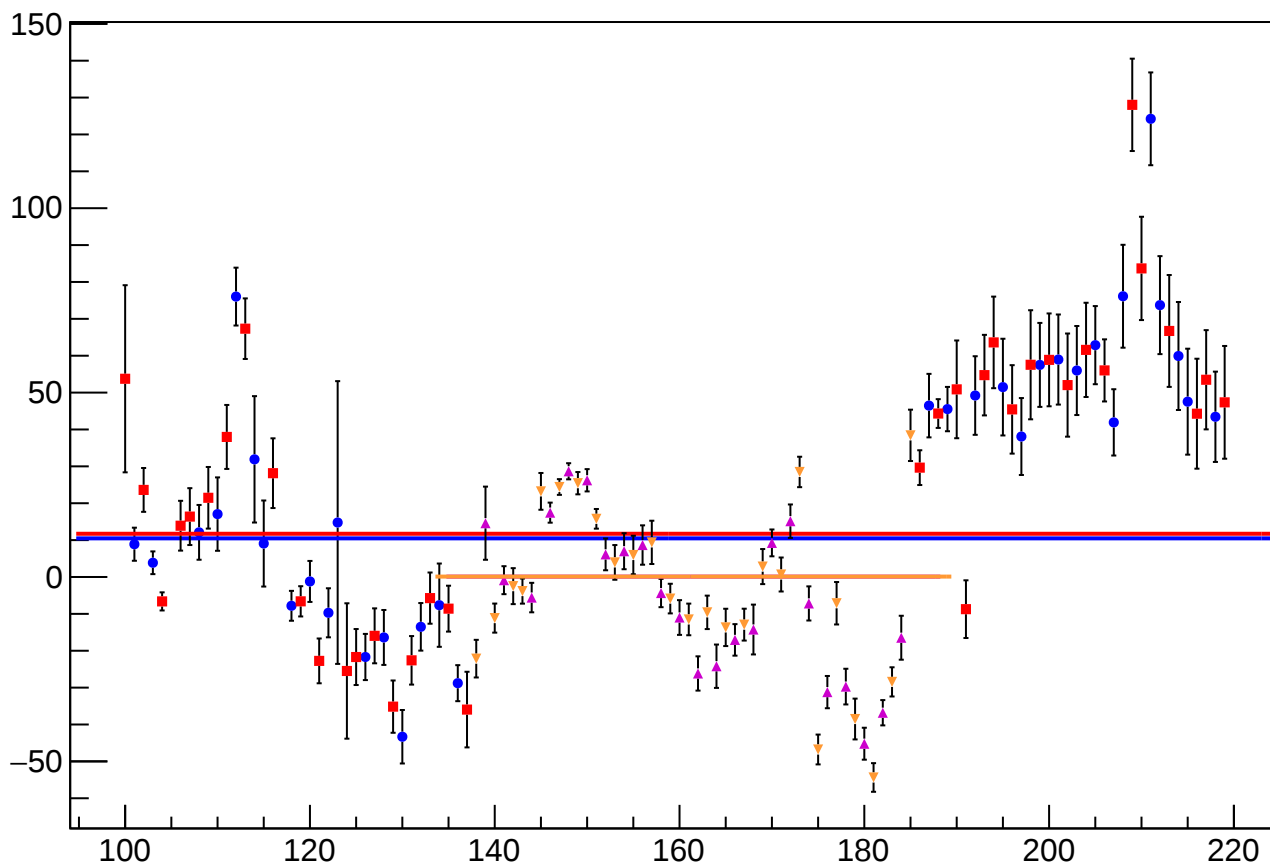
Right: -266.187+/-1.191 χ^2 /NDF: 5488.8/33

In: -214.911+/-0.944 χ^2 /NDF:5023.2/38

Out: -223.473+/-0.886 χ^2 /NDF:8795.3/42

All: -219.463+/-0.646 χ^2 /NDF: 13862.2/81

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.473 ± 1.287 $\chi^2/\text{NDF}: 603.3/32$

Left Out: 0.109 ± 0.807 $\chi^2/\text{NDF}: 831.2/24$

Right Out: 11.722 ± 1.168 $\chi^2/\text{NDF}: 682.6/36$

Left In: 0.097 ± 0.838 $\chi^2/\text{NDF}: 715.5/22$

Left: 0.103 ± 0.581 $\chi^2/\text{NDF}: 1546.7/47$

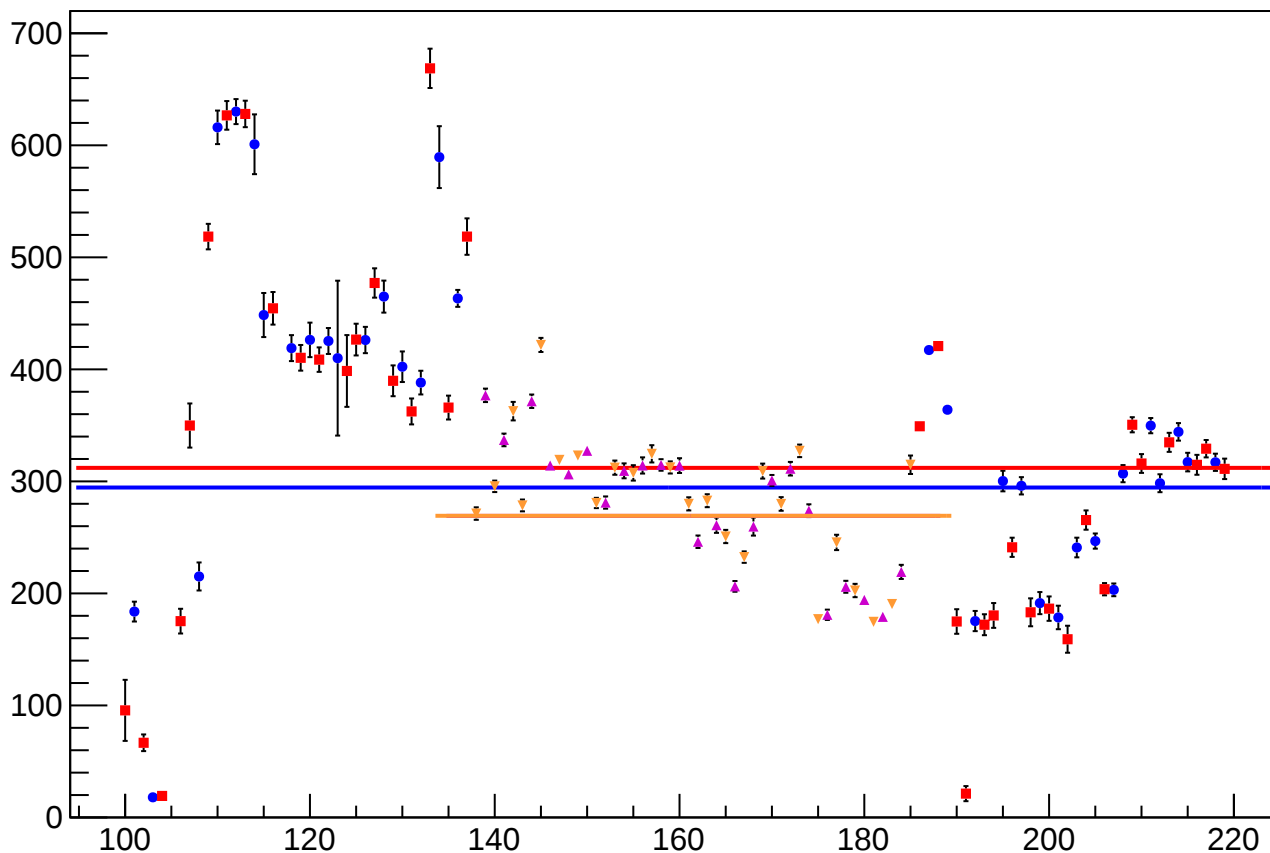
Right: 11.157 ± 0.865 $\chi^2/\text{NDF}: 1286.5/69$

In: 3.187 ± 0.702 $\chi^2/\text{NDF}: 1364.4/55$

Out: 3.862 ± 0.664 $\chi^2/\text{NDF}: 1580.8/61$

All: 3.543 ± 0.482 $\chi^2/\text{NDF}: 2945.7/117$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 294.523+/-1.427 χ^2 /NDF: 9654.0/32

Left Out: 269.278+/-1.078 χ^2 /NDF:3146.7/24

Right Out: 312.067+/-1.203 χ^2 /NDF: 14408.7/36

Left In: 269.191+/-1.091 χ^2 /NDF:3170.2/22

Left: 269.235+/-0.767 χ^2 /NDF: 6316.9/47

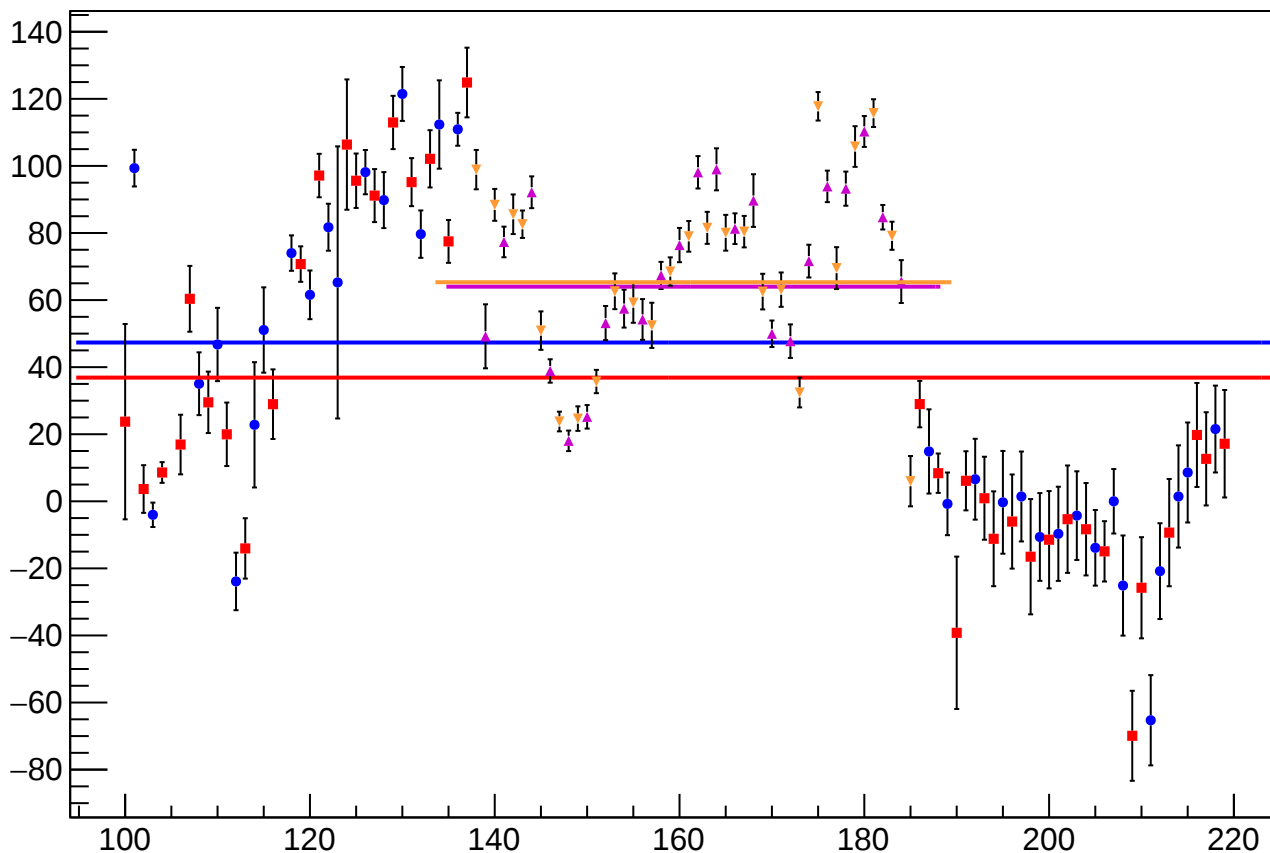
Right: 304.774+/-0.920 χ^2 /NDF: 24151.0/69

In: 278.534+/-0.866 χ^2 /NDF:13023.1/55

Out: 288.319+/-0.803 χ^2 /NDF:18257.0/61

All: 283.799+/-0.589 χ^2 /NDF: 31348.8/117

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.345 ± 1.496 $\chi^2/\text{NDF}: 1106.7/32$

Left Out: 65.323 ± 0.935 $\chi^2/\text{NDF}: 1007.1/24$

Right Out: 36.883 ± 1.403 $\chi^2/\text{NDF}: 965.6/36$

Left In: 63.999 ± 0.963 $\chi^2/\text{NDF}: 799.5/22$

Left: 64.681 ± 0.671 $\chi^2/\text{NDF}: 1807.5/47$

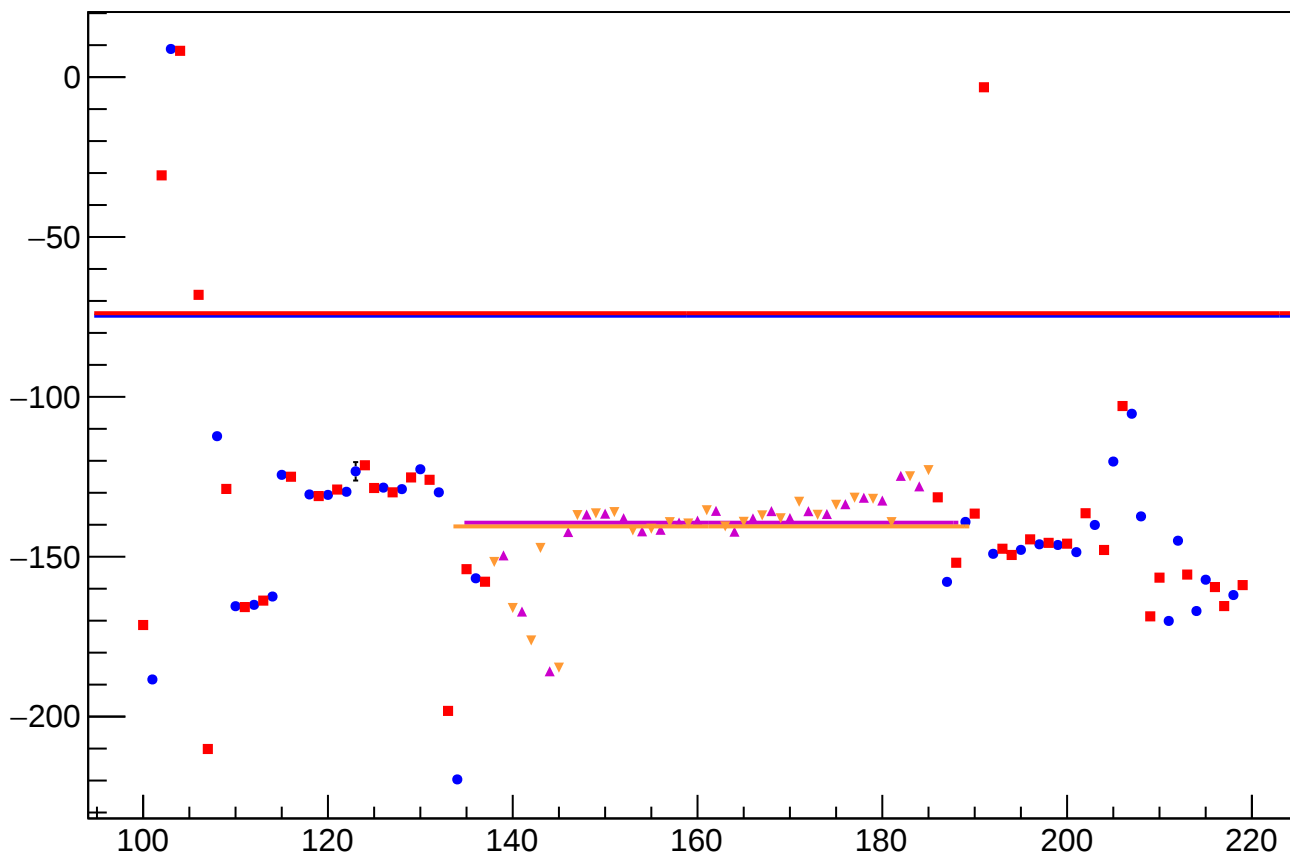
Right: 41.779 ± 1.023 $\chi^2/\text{NDF}: 2098.3/69$

In: 59.120 ± 0.810 $\chi^2/\text{NDF}: 1993.8/55$

Out: 56.580 ± 0.778 $\chi^2/\text{NDF}: 2257.3/61$

All: 57.800 ± 0.561 $\chi^2/\text{NDF}: 4256.2/117$

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -74.618 ± 0.061 $\chi^2/\text{NDF}: 1623744.6/32$

Left Out: -140.519 ± 0.045 $\chi^2/\text{NDF}: 77489.0/24$

Right Out: -73.836 ± 0.060 $\chi^2/\text{NDF}: 1465971.0/36$

Left In: -139.360 ± 0.045 $\chi^2/\text{NDF}: 62449.0/22$

Left: -139.945 ± 0.032 $\chi^2/\text{NDF}: 140272.6/47$

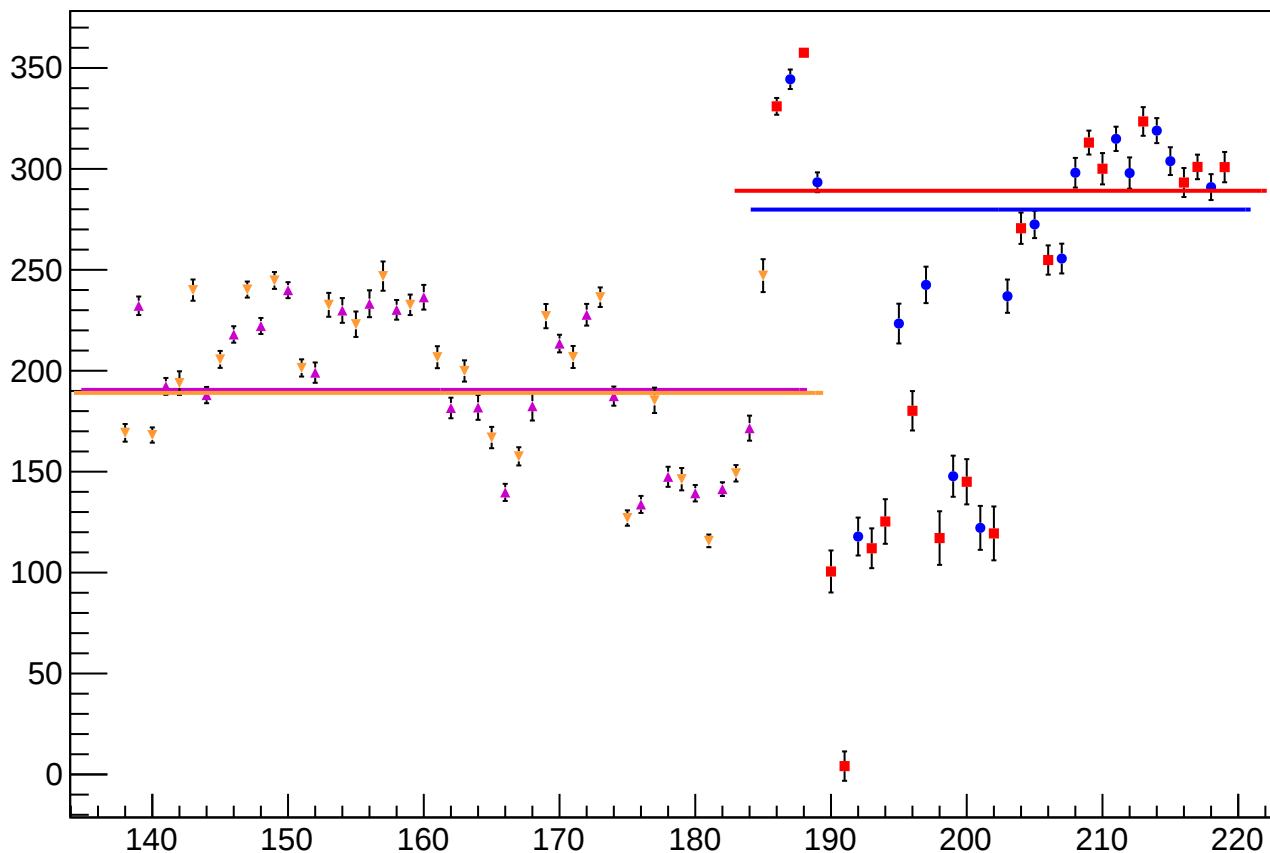
Right: -74.217 ± 0.043 $\chi^2/\text{NDF}: 3089798.9/69$

In: -116.688 ± 0.036 $\chi^2/\text{NDF}: 2410730.5/55$

Out: -116.700 ± 0.036 $\chi^2/\text{NDF}: 2343609.4/61$

All: -116.694 ± 0.025 $\chi^2/\text{NDF}: 4754339.9/111$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 279.851 $\pm$ 1.754 χ^2 /NDF: 1050.6/15

Left Out: 189.030 $\pm$ 0.956 χ^2 /NDF:1980.9/24

Right Out: 289.162 $\pm$ 1.477 χ^2 /NDF: 3947.6/17

Left In: 190.506 $\pm$ 0.975 χ^2 /NDF:1412.7/22

Left: 189.753 $\pm$ 0.683 χ^2 /NDF: 3394.8/47

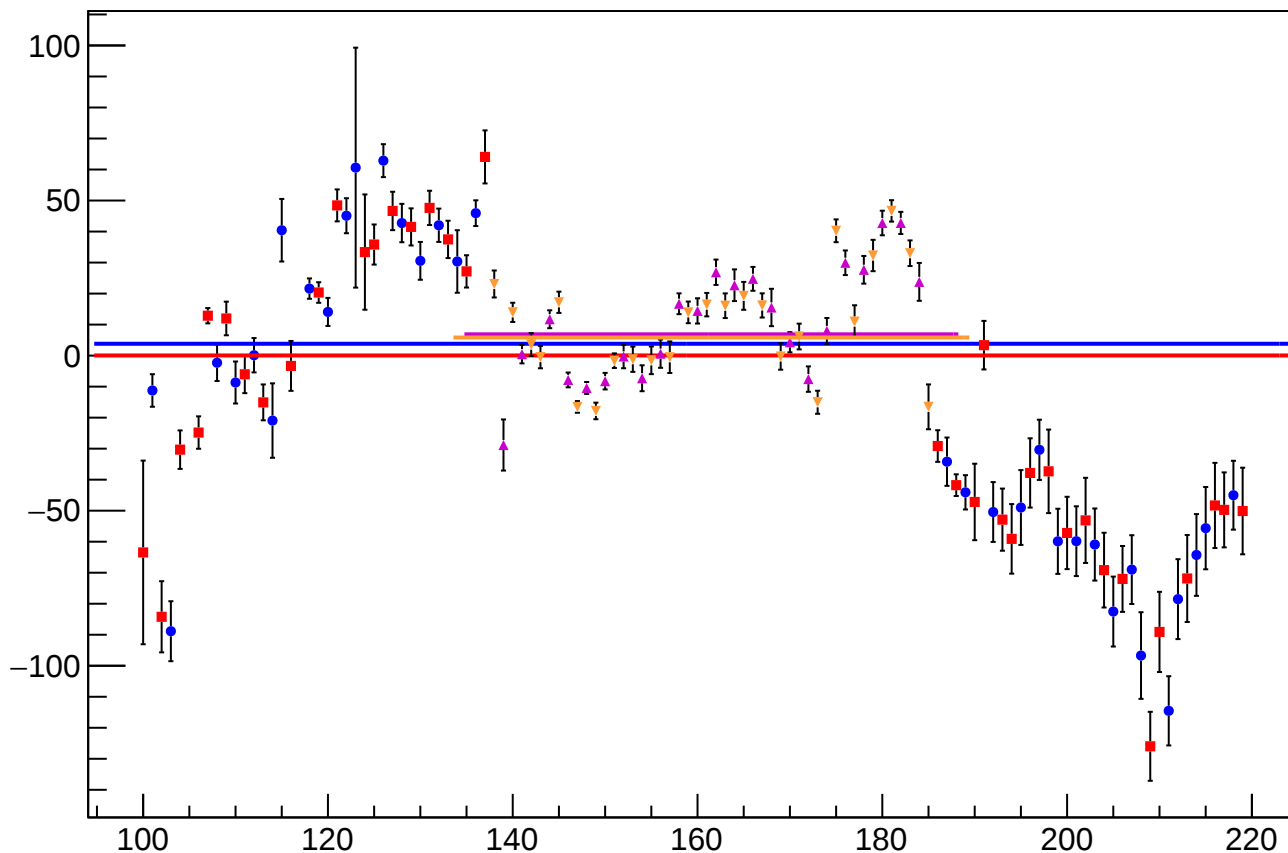
Right: 285.298 $\pm$ 1.130 χ^2 /NDF: 5014.7/33

In: 211.597 $\pm$ 0.852 χ^2 /NDF:4445.3/38

Out: 218.581 $\pm$ 0.803 χ^2 /NDF:9167.0/42

All: 215.298 $\pm$ 0.584 χ^2 /NDF: 13647.8/81

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.820 ± 1.223 $\chi^2/\text{NDF}: 1190.4/32$

Left Out: 5.834 ± 0.712 $\chi^2/\text{NDF}: 652.2/24$

Right Out: 0.054 ± 1.053 $\chi^2/\text{NDF}: 1233.0/36$

Left In: 6.862 ± 0.736 $\chi^2/\text{NDF}: 522.7/22$

Left: 6.331 ± 0.512 $\chi^2/\text{NDF}: 1176.0/47$

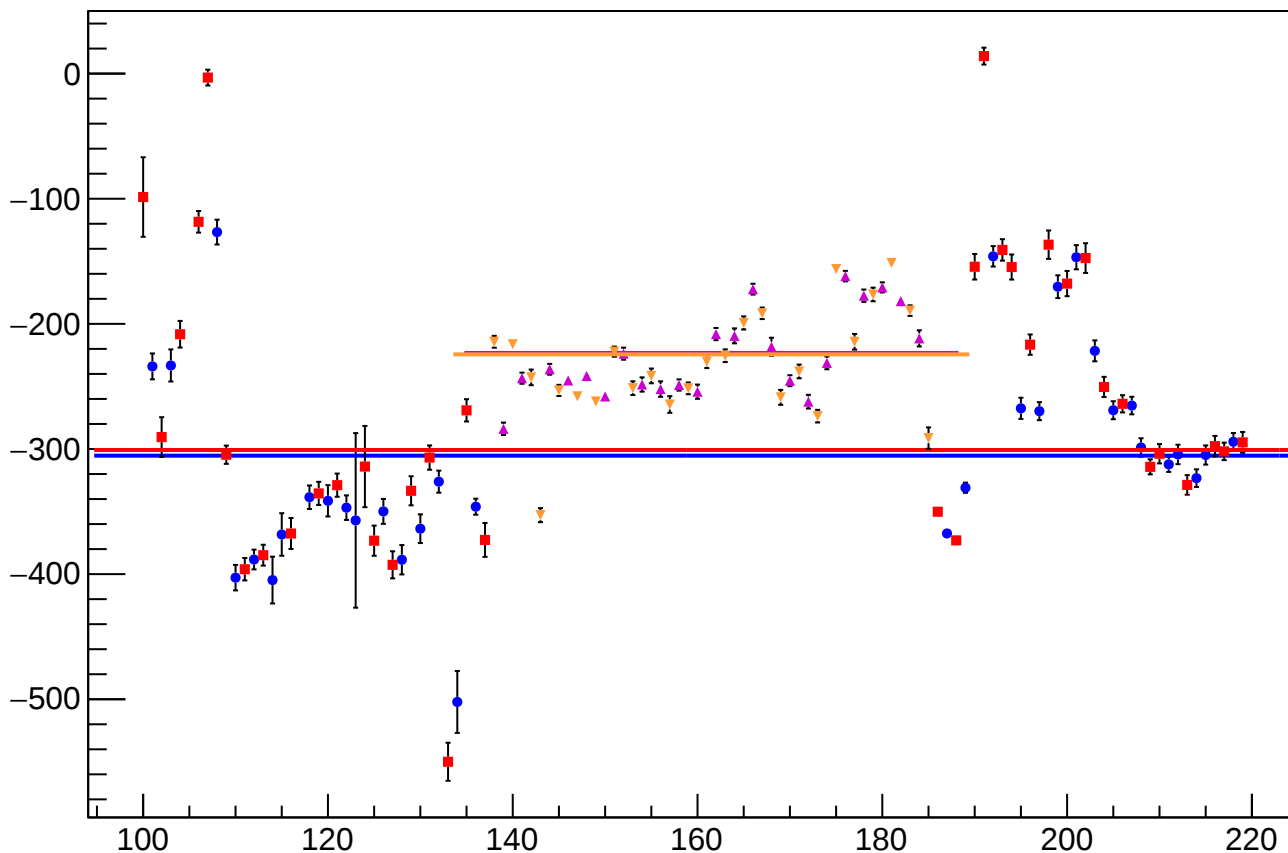
Right: 1.657 ± 0.798 $\chi^2/\text{NDF}: 2428.8/69$

In: 6.053 ± 0.631 $\chi^2/\text{NDF}: 1717.7/55$

Out: 4.019 ± 0.590 $\chi^2/\text{NDF}: 1905.9/61$

All: 4.969 ± 0.431 $\chi^2/\text{NDF}: 3629.1/117$

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -305.327 ± 1.389 χ^2/NDF : 2259.6/32

Left Out: -224.364 ± 0.956 χ^2/NDF : 2103.2/24

Right Out: -300.791 ± 1.143 χ^2/NDF : 8678.3/36

Left In: -223.223 ± 0.969 χ^2/NDF : 1269.3/22

Left: -223.801 ± 0.681 χ^2/NDF : 3373.2/47

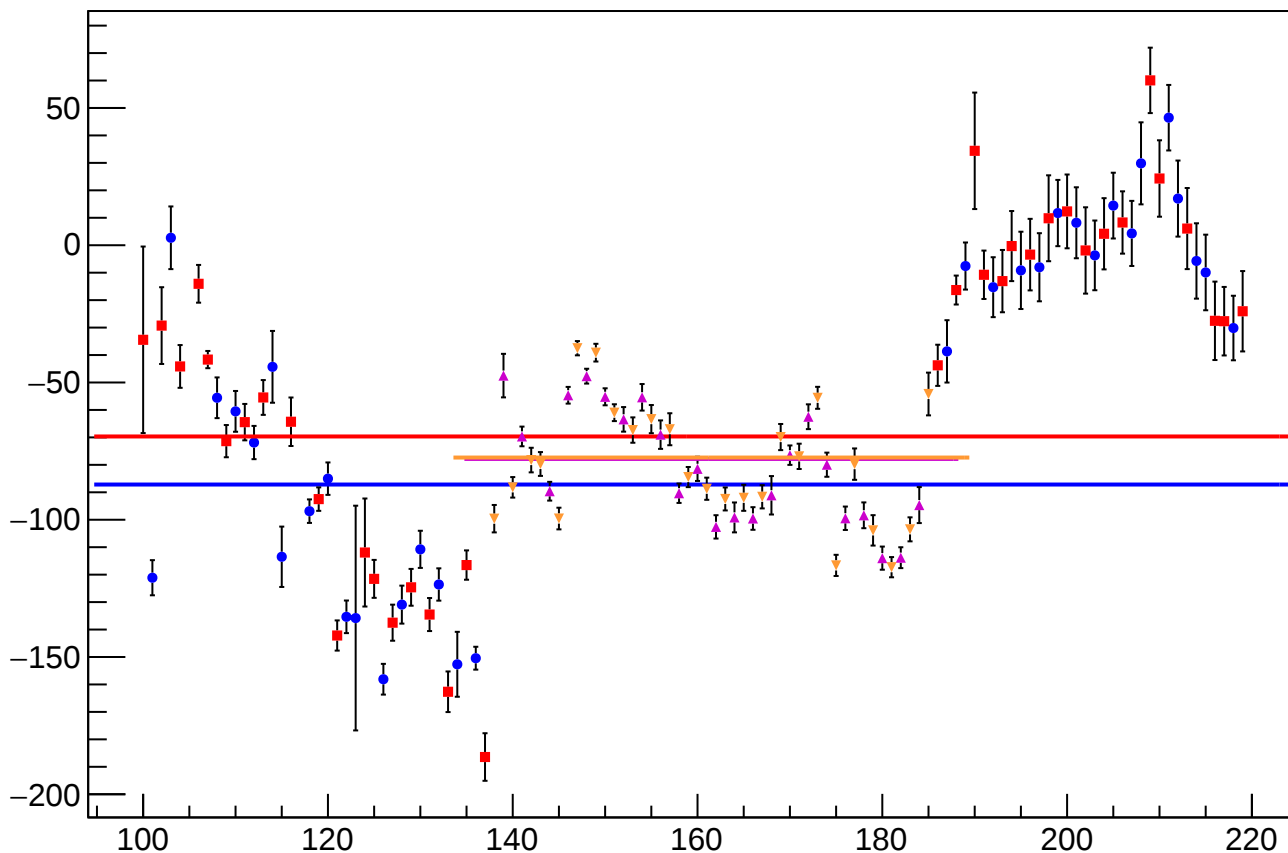
Right: -302.623 ± 0.883 χ^2/NDF : 10944.2/69

In: -250.101 ± 0.795 χ^2/NDF : 5878.2/55

Out: -255.811 ± 0.733 χ^2/NDF : 13411.2/61

All: -253.185 ± 0.539 χ^2/NDF : 19317.3/117

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -87.173 ± 1.415 $\chi^2/\text{NDF}: 1577.7/32$

Left Out: -77.343 ± 0.827 $\chi^2/\text{NDF}: 846.2/24$

Right Out: -69.663 ± 1.255 $\chi^2/\text{NDF}: 1785.8/36$

Left In: -77.838 ± 0.849 $\chi^2/\text{NDF}: 622.8/22$

Left: -77.584 ± 0.592 $\chi^2/\text{NDF}: 1469.2/47$

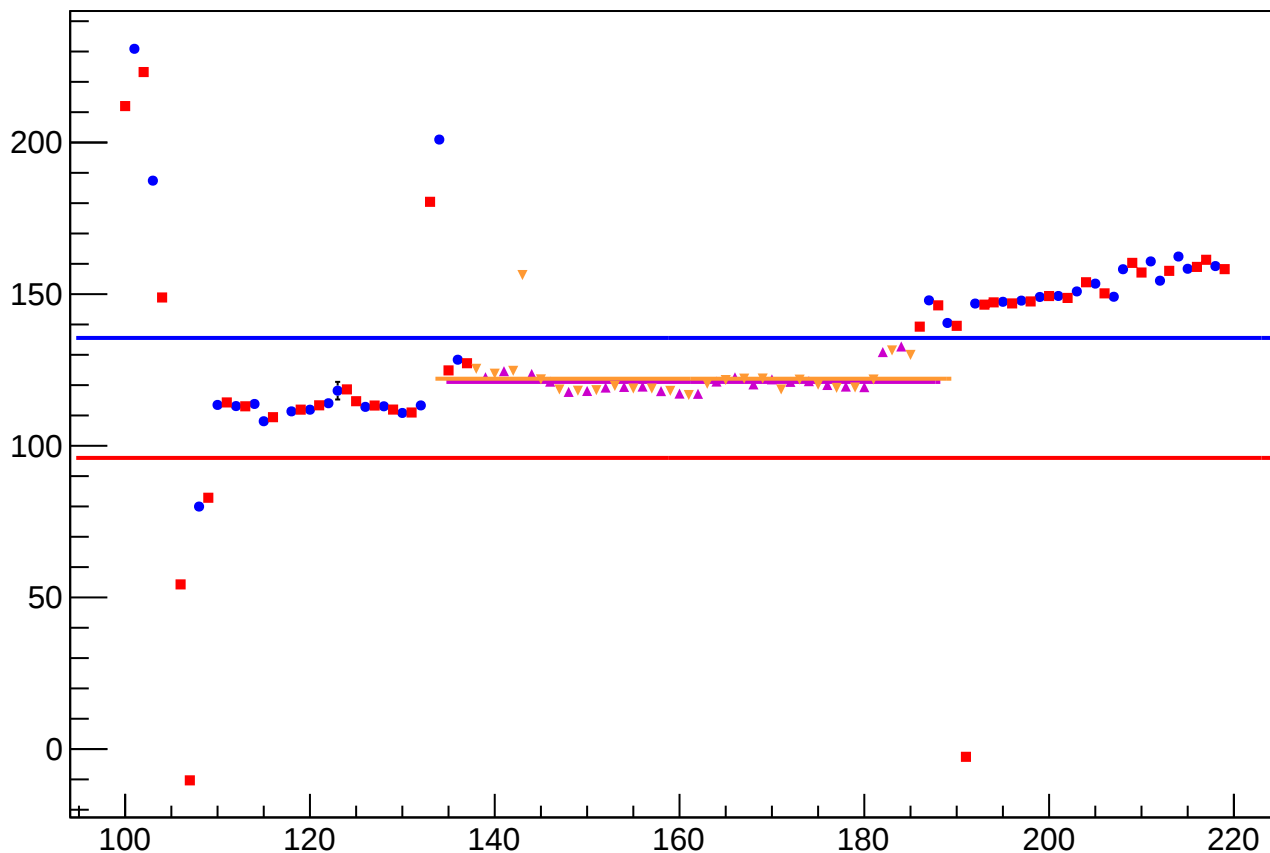
Right: -77.373 ± 0.939 $\chi^2/\text{NDF}: 3449.2/69$

In: -80.307 ± 0.728 $\chi^2/\text{NDF}: 2232.5/55$

Out: -75.021 ± 0.690 $\chi^2/\text{NDF}: 2658.2/61$

All: -77.524 ± 0.501 $\chi^2/\text{NDF}: 4918.4/117$

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 135.563+/-0.072 χ^2/NDF : 213056.0/32

Left Out: 122.119+/-0.039 χ^2/NDF :30480.7/24

Right Out: 96.004+/-0.061 χ^2/NDF : 1180432.9/36

Left In: 121.055+/-0.040 χ^2/NDF :7931.6/22

Left: 121.591+/-0.028 χ^2/NDF : 38773.7/47

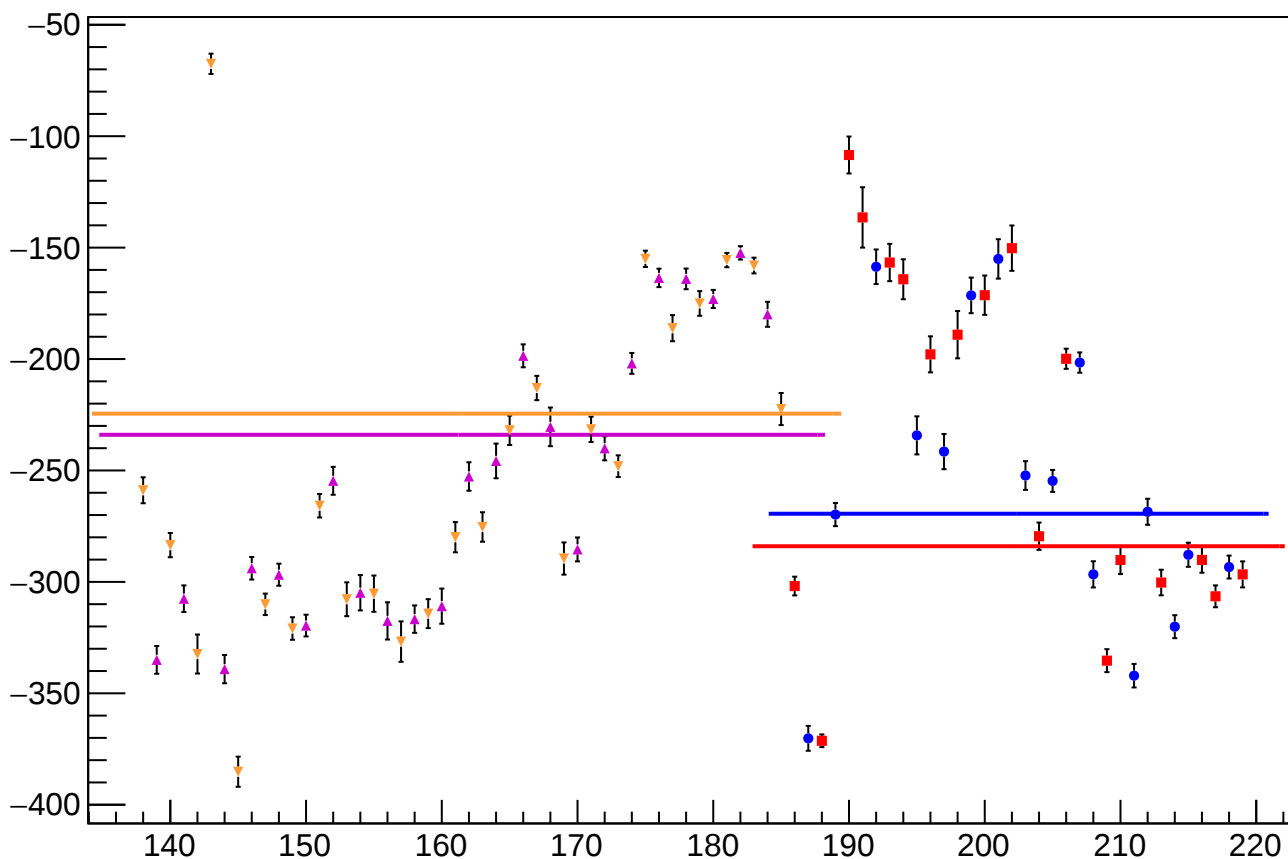
Right: 112.587+/-0.046 χ^2/NDF : 1570153.9/69

In: 124.462+/-0.035 χ^2/NDF :252292.8/55

Out: 114.417+/-0.033 χ^2/NDF :1340404.4/61

All: 119.193+/-0.024 χ^2/NDF : 1636506.4/117

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -269.417 ± 1.472 $\chi^2/\text{NDF}: 1455.7/15$

Left Out: -224.501 ± 1.079 $\chi^2/\text{NDF}: 4870.6/24$

Right Out: -284.002 ± 1.358 $\chi^2/\text{NDF}: 2944.1/17$

Left In: -233.988 ± 1.109 $\chi^2/\text{NDF}: 3538.4/22$

Left: -229.116 ± 0.773 $\chi^2/\text{NDF}: 8446.6/47$

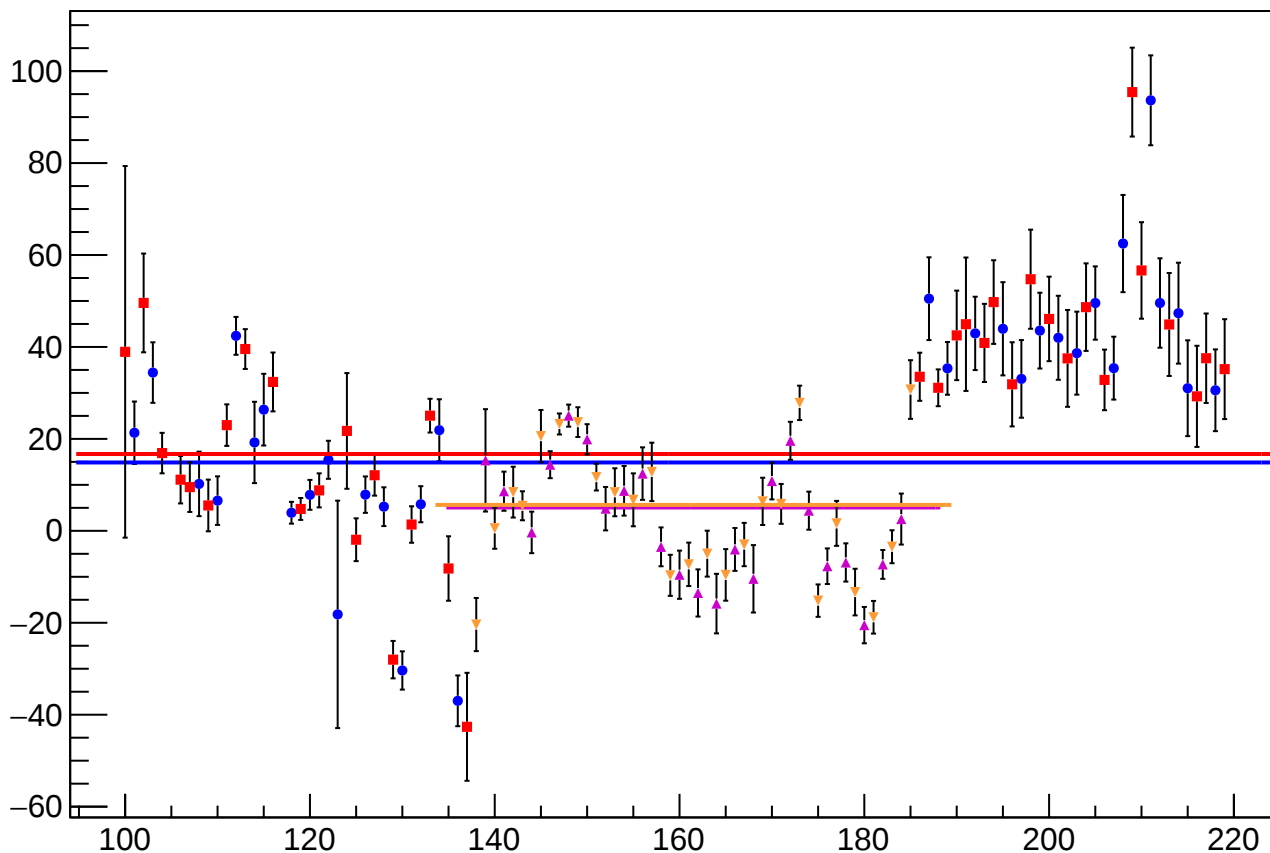
Right: -277.300 ± 0.998 $\chi^2/\text{NDF}: 4452.8/33$

In: -246.806 ± 0.886 $\chi^2/\text{NDF}: 5363.6/38$

Out: -247.539 ± 0.845 $\chi^2/\text{NDF}: 8991.9/42$

All: -247.190 ± 0.611 $\chi^2/\text{NDF}: 14355.9/81$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 14.871+/-0.982 χ^2/NDF : 530.2/32

Left Out: 5.638+/-0.828 χ^2/NDF : 313.6/24

Right Out: 16.711+/-0.937 χ^2/NDF : 476.2/36

Left In: 5.077+/-0.869 χ^2/NDF : 239.7/22

Left: 5.371+/-0.599 χ^2/NDF : 553.6/47

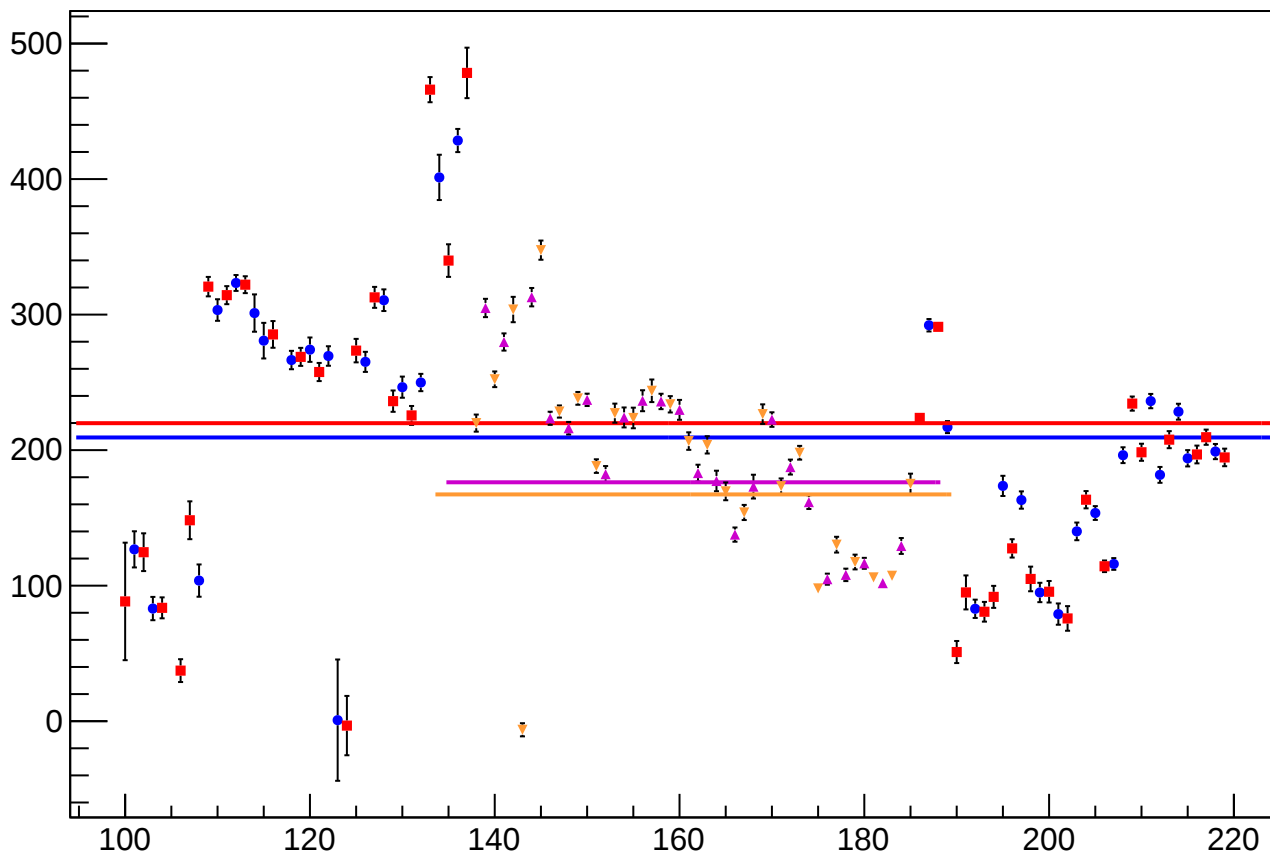
Right: 15.834+/-0.678 χ^2/NDF : 1008.2/69

In: 9.379+/-0.651 χ^2/NDF : 825.6/55

Out: 10.494+/-0.620 χ^2/NDF : 868.3/61

All: 9.963+/-0.449 χ^2/NDF : 1695.4/117

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 209.345 $\pm$ 1.174 χ^2 /NDF: 4264.4/32

Left Out: 167.327 $\pm$ 1.082 χ^2 /NDF:4454.5/24

Right Out: 219.889 $\pm$ 1.057 χ^2 /NDF: 6629.3/36

Left In: 176.272 $\pm$ 1.106 χ^2 /NDF:3169.5/22

Left: 171.704 $\pm$ 0.774 χ^2 /NDF: 7657.4/47

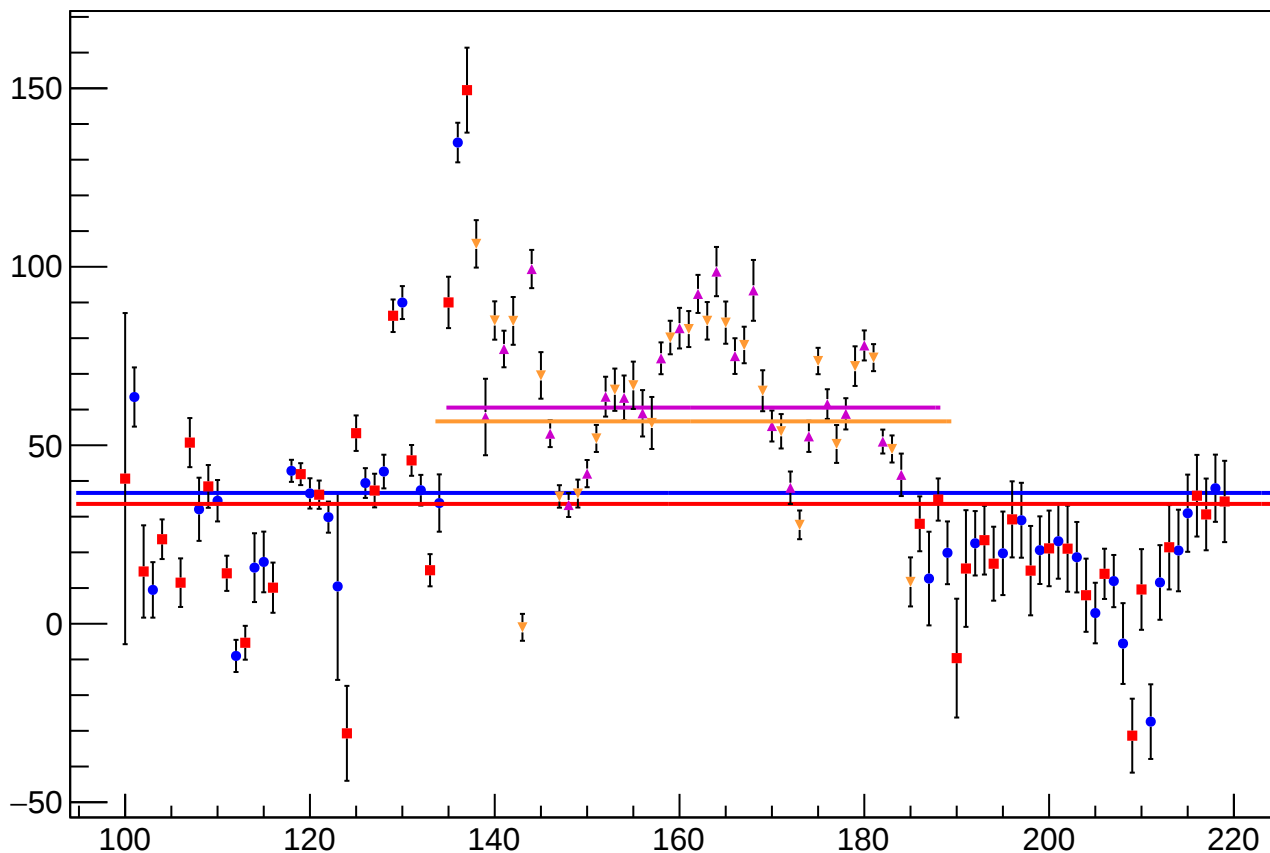
Right: 215.169 $\pm$ 0.786 χ^2 /NDF: 10938.2/69

In: 191.812 $\pm$ 0.805 χ^2 /NDF:7854.3/55

Out: 194.228 $\pm$ 0.756 χ^2 /NDF:12290.5/61

All: 193.095 $\pm$ 0.551 χ^2 /NDF: 20149.5/117

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 36.648 $\pm$ 1.134 χ^2/NDF : 698.9/32

Left Out: 56.695 $\pm$ 0.952 χ^2/NDF :690.4/24

Right Out: 33.572 $\pm$ 1.093 χ^2/NDF : 555.6/36

Left In: 60.555 $\pm$ 0.990 χ^2/NDF :335.6/22

Left: 58.548 $\pm$ 0.686 χ^2/NDF : 1034.0/47

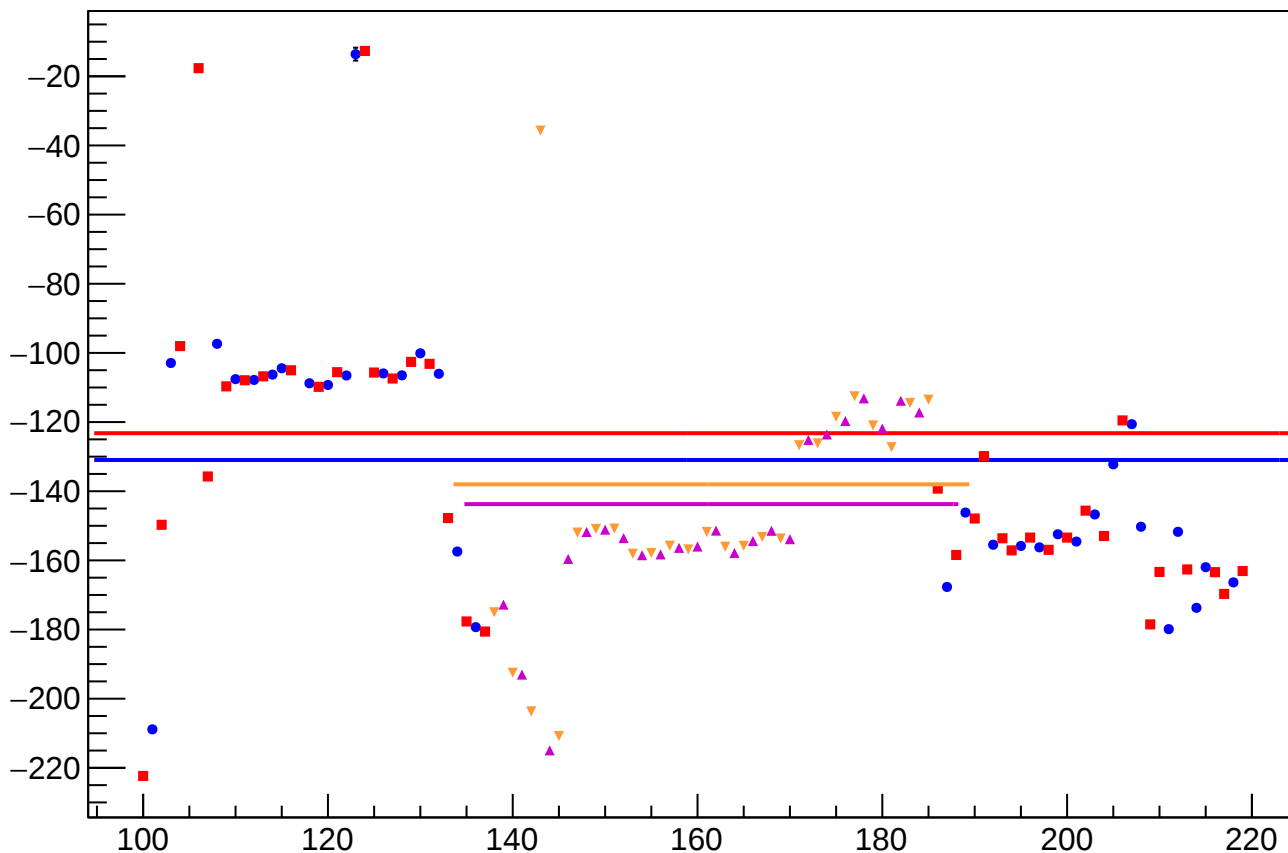
Right: 35.054 $\pm$ 0.787 χ^2/NDF : 1258.4/69

In: 50.213 $\pm$ 0.746 χ^2/NDF :1286.7/55

Out: 46.724 $\pm$ 0.718 χ^2/NDF :1500.6/61

All: 48.402 $\pm$ 0.517 χ^2/NDF : 2798.7/117

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -130.959 ± 0.060 $\chi^2/\text{NDF}: 233872.5/32$

Left Out: -138.008 ± 0.045 $\chi^2/\text{NDF}: 565767.2/24$

Right Out: -123.217 ± 0.057 $\chi^2/\text{NDF}: 494161.9/36$

Left In: -143.735 ± 0.046 $\chi^2/\text{NDF}: 258408.3/22$

Left: -140.811 ± 0.032 $\chi^2/\text{NDF}: 832055.2/47$

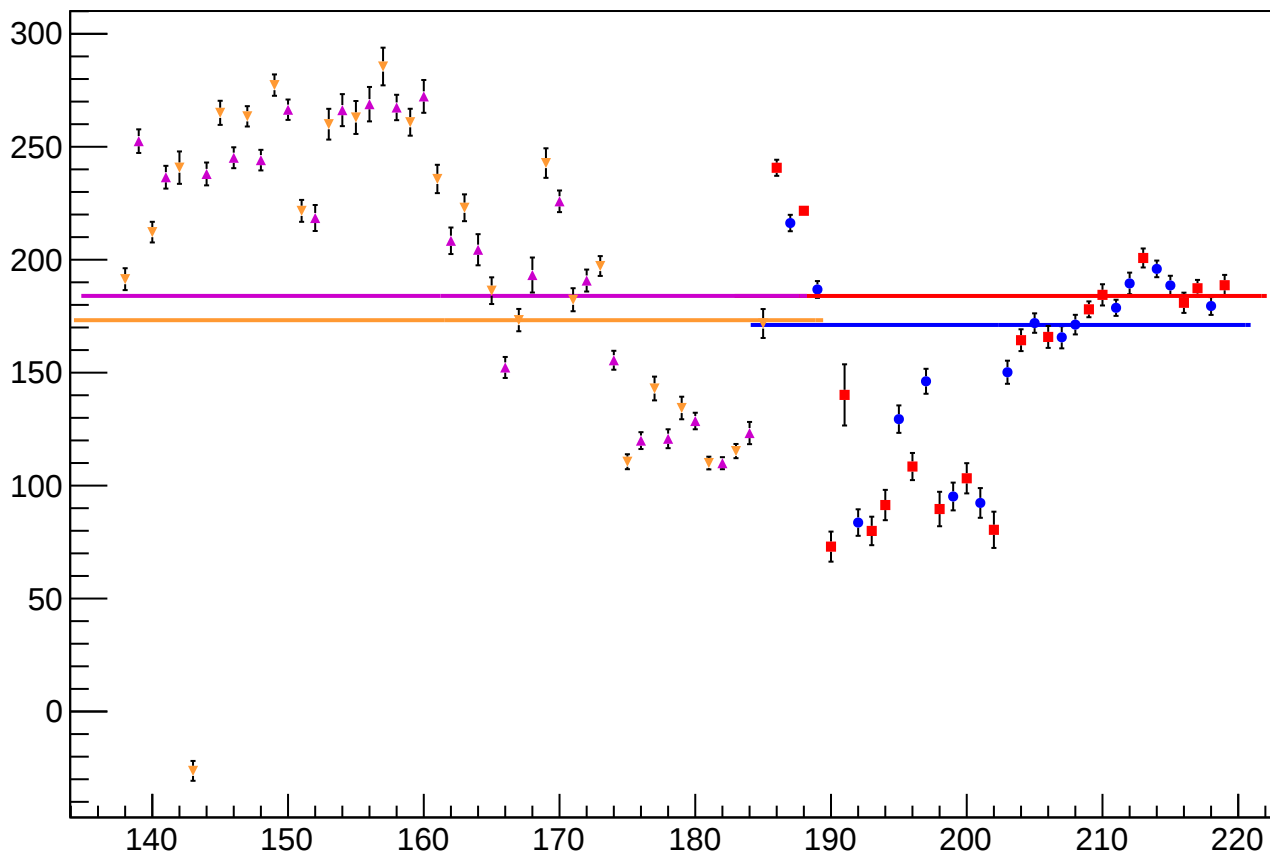
Right: -126.863 ± 0.041 $\chi^2/\text{NDF}: 736720.8/69$

In: -139.034 ± 0.037 $\chi^2/\text{NDF}: 520541.2/55$

Out: -132.310 ± 0.035 $\chi^2/\text{NDF}: 1101315.7/61$

All: -135.554 ± 0.025 $\chi^2/\text{NDF}: 1639280.1/111$

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 171.123+/-1.126 χ^2/NDF : 862.0/15

Left Out: 173.229+/-0.966 χ^2/NDF : 5846.0/24

Right Out: 183.962+/-1.018 χ^2/NDF : 2088.9/17

Left In: 183.984+/-0.991 χ^2/NDF : 3613.7/22

Left: 178.467+/-0.692 χ^2/NDF : 9520.1/47

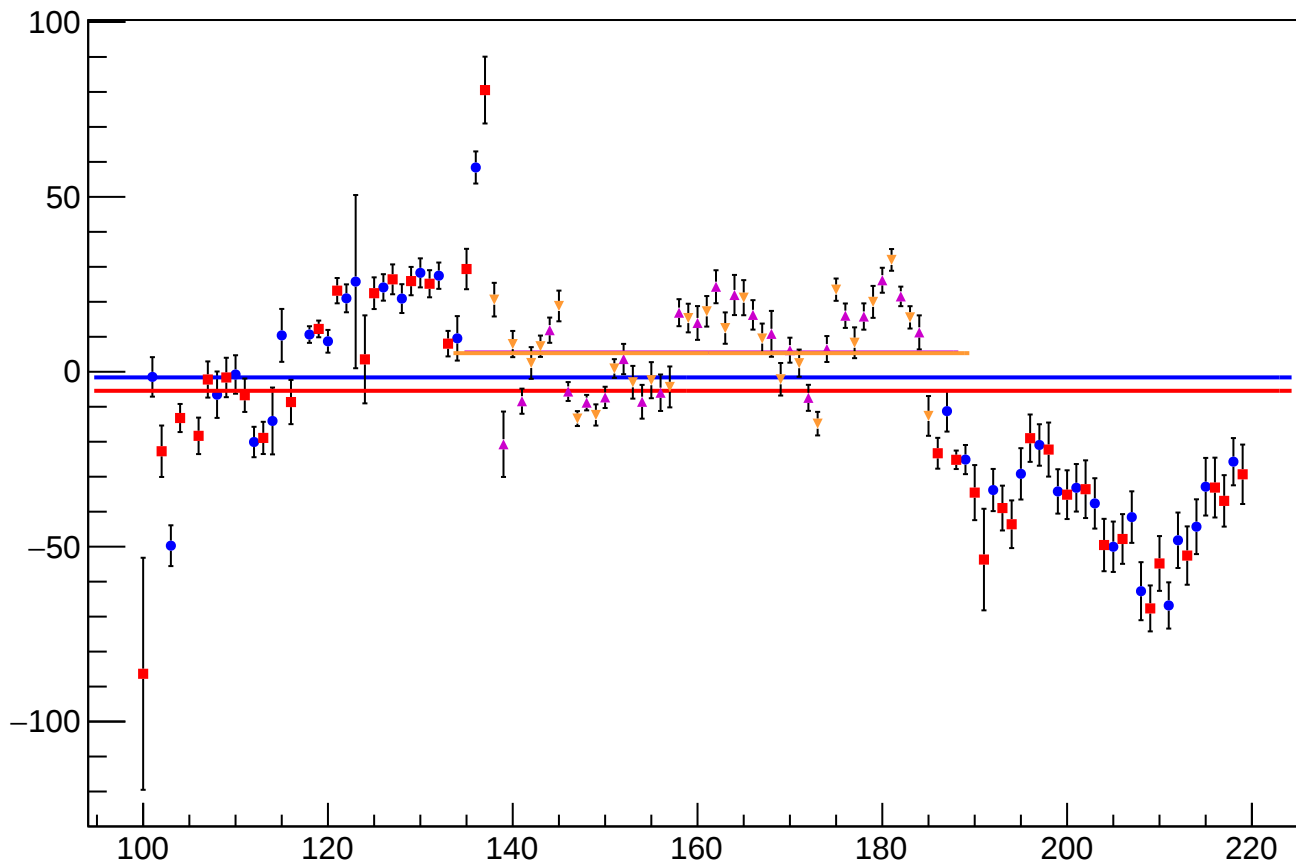
Right: 178.187+/-0.755 χ^2/NDF : 3022.5/33

In: 178.371+/-0.744 χ^2/NDF : 4549.2/38

Out: 178.311+/-0.701 χ^2/NDF : 7993.4/42

All: 178.339+/-0.510 χ^2/NDF : 12542.6/81

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.609 ± 0.900 χ^2/NDF : 1000.7/32

Left Out: 5.321 ± 0.747 χ^2/NDF : 345.5/24

Right Out: -5.443 ± 0.851 χ^2/NDF : 958.4/36

Left In: 5.527 ± 0.781 χ^2/NDF : 256.3/22

Left: 5.420 ± 0.540 χ^2/NDF : 601.9/47

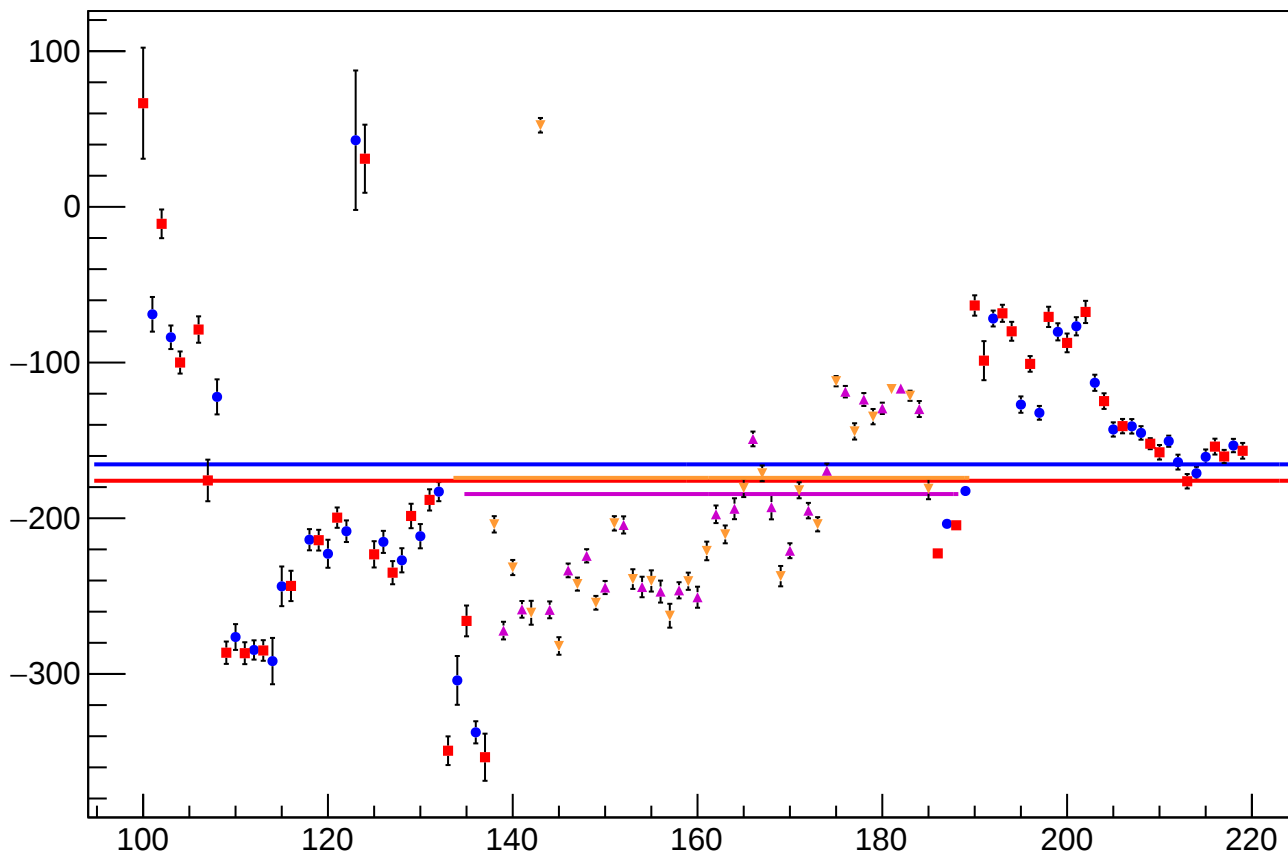
Right: -3.634 ± 0.618 χ^2/NDF : 1968.8/69

In: 2.461 ± 0.590 χ^2/NDF : 1292.9/55

Out: 0.633 ± 0.561 χ^2/NDF : 1394.3/61

All: 1.502 ± 0.407 χ^2/NDF : 2692.3/117

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -165.387 ± 0.950 χ^2/NDF : 3151.3/32

Left Out: -174.061 ± 0.971 χ^2/NDF : 5443.3/24

Right Out: -175.918 ± 0.836 χ^2/NDF : 5034.7/36

Left In: -184.456 ± 0.991 χ^2/NDF : 3051.6/22

Left: -179.154 ± 0.693 χ^2/NDF : 8551.0/47

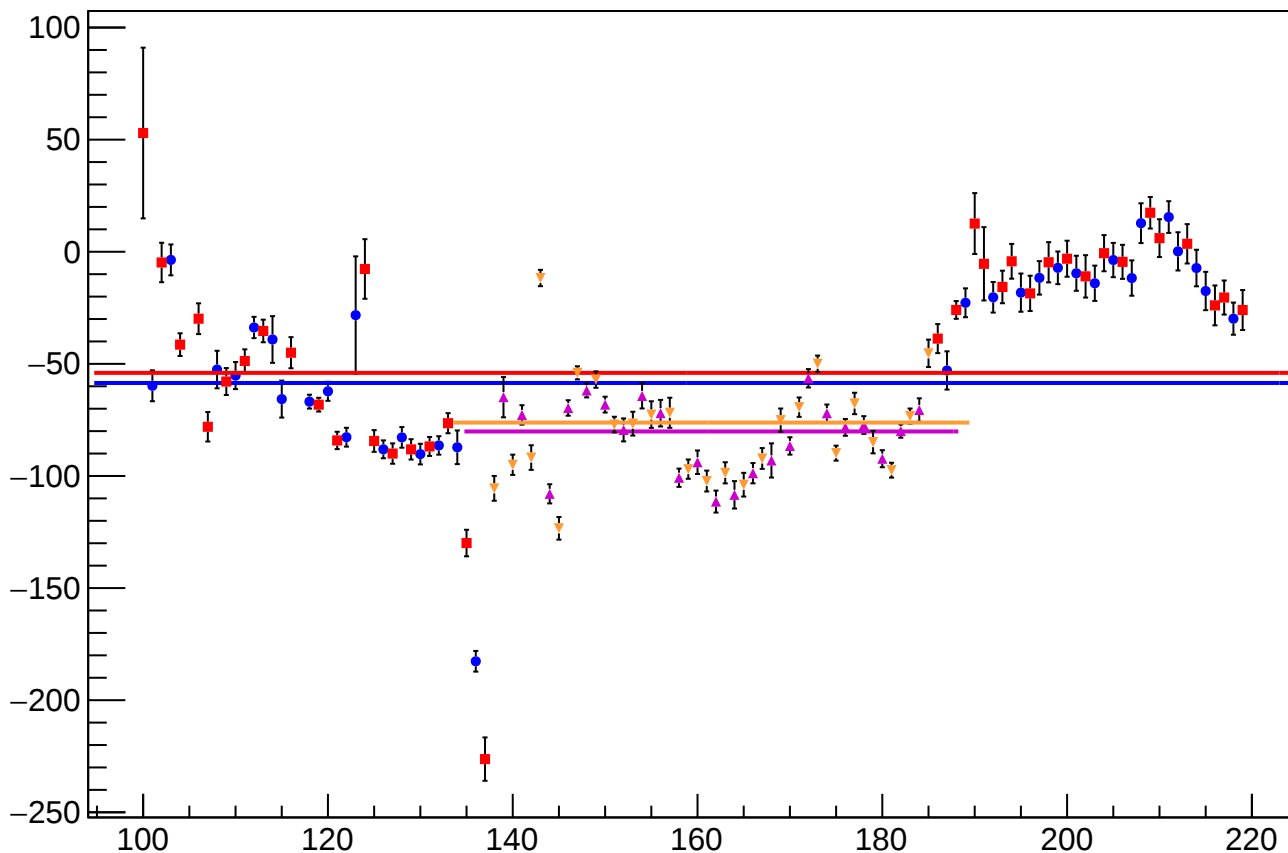
Right: -171.319 ± 0.628 χ^2/NDF : 8255.2/69

In: -174.522 ± 0.686 χ^2/NDF : 6396.0/55

Out: -175.127 ± 0.634 χ^2/NDF : 10480.0/61

All: -174.848 ± 0.465 χ^2/NDF : 16876.4/117

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -58.523 ± 1.042 $\chi^2/\text{NDF}: 1685.1/32$

Left Out: -76.182 ± 0.857 $\chi^2/\text{NDF}: 801.0/24$

Right Out: -54.020 ± 1.003 $\chi^2/\text{NDF}: 1500.6/36$

Left In: -80.149 ± 0.889 $\chi^2/\text{NDF}: 283.3/22$

Left: -78.094 ± 0.617 $\chi^2/\text{NDF}: 1094.6/47$

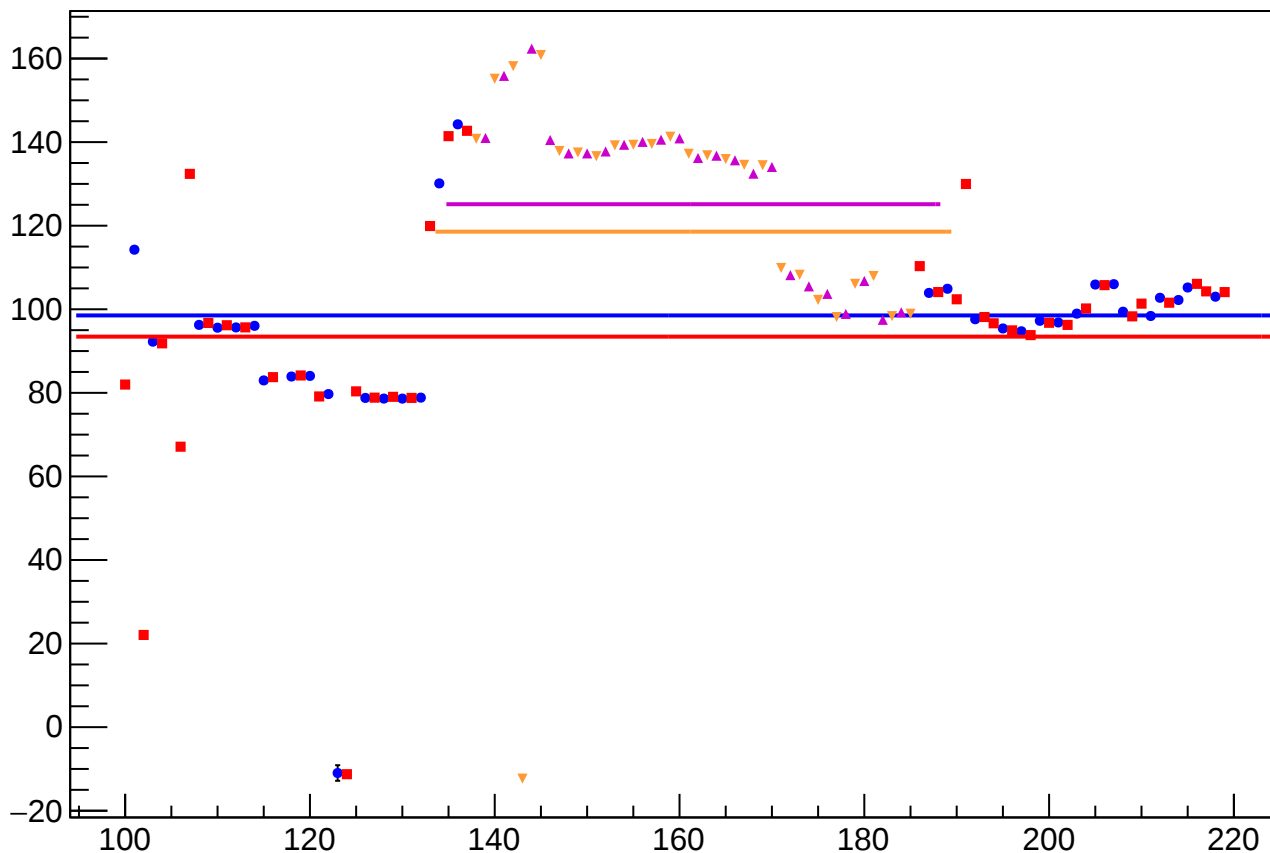
Right: -56.186 ± 0.722 $\chi^2/\text{NDF}: 3195.4/69$

In: -71.036 ± 0.676 $\chi^2/\text{NDF}: 2217.7/55$

Out: -66.822 ± 0.652 $\chi^2/\text{NDF}: 2583.9/61$

All: -68.851 ± 0.469 $\chi^2/\text{NDF}: 4821.7/117$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.525+/-0.052 χ^2/NDF : 96655.5/32

Left Out: 118.569+/-0.040 χ^2/NDF : 728689.7/24

Right Out: 93.452+/-0.049 χ^2/NDF : 245951.5/36

Left In: 125.139+/-0.041 χ^2/NDF : 220927.1/22

Left: 121.790+/-0.029 χ^2/NDF : 962526.8/47

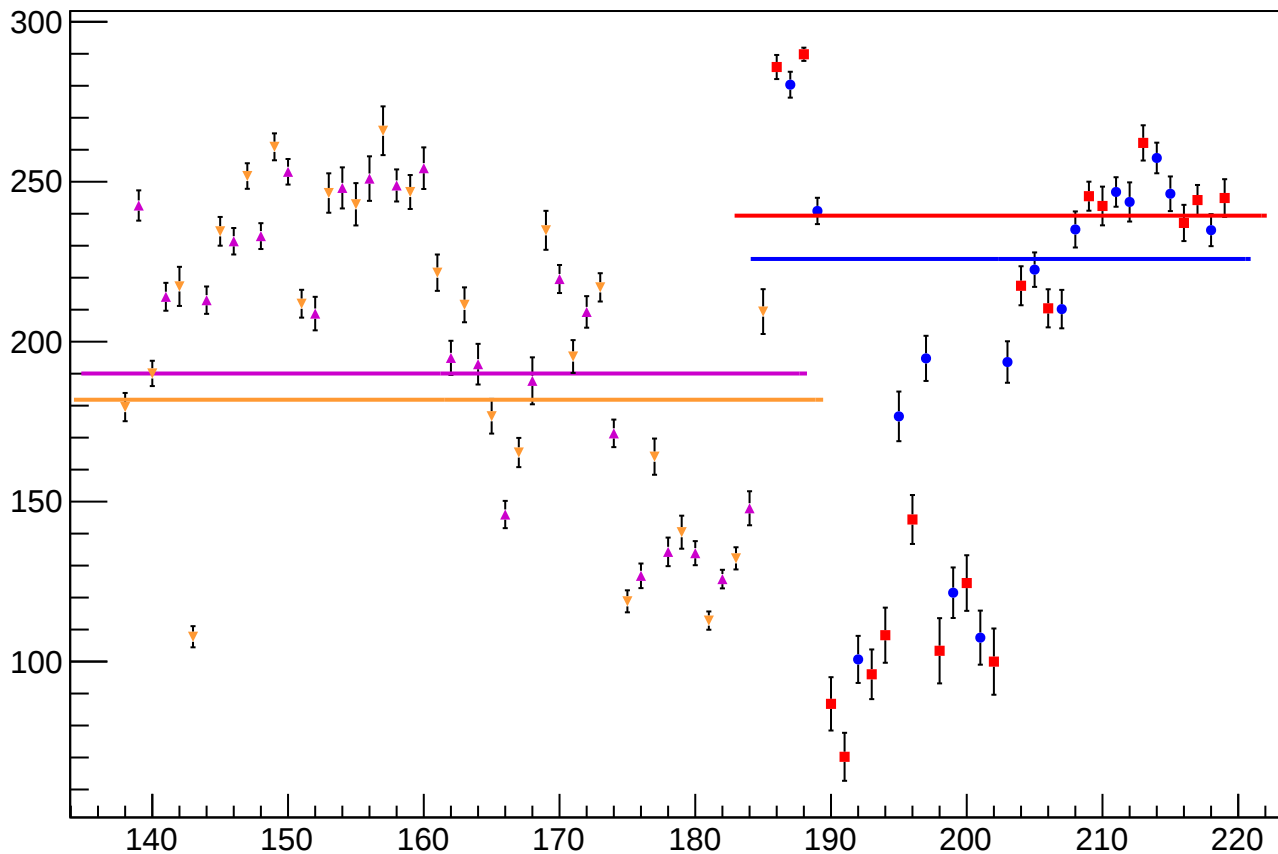
Right: 95.840+/-0.036 χ^2/NDF : 347558.0/69

In: 114.961+/-0.032 χ^2/NDF : 476526.5/55

Out: 108.491+/-0.031 χ^2/NDF : 1129019.7/61

All: 111.613+/-0.023 χ^2/NDF : 1626124.2/117

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 225.857 $\pm$ 1.395 χ^2 /NDF: 1038.6/15

Left Out: 181.850 $\pm$ 0.913 χ^2 /NDF:3303.4/24

Right Out: 239.396 $\pm$ 1.209 χ^2 /NDF: 2909.5/17

Left In: 190.048 $\pm$ 0.953 χ^2 /NDF:2438.4/22

Left: 185.775 $\pm$ 0.659 χ^2 /NDF: 5780.3/47

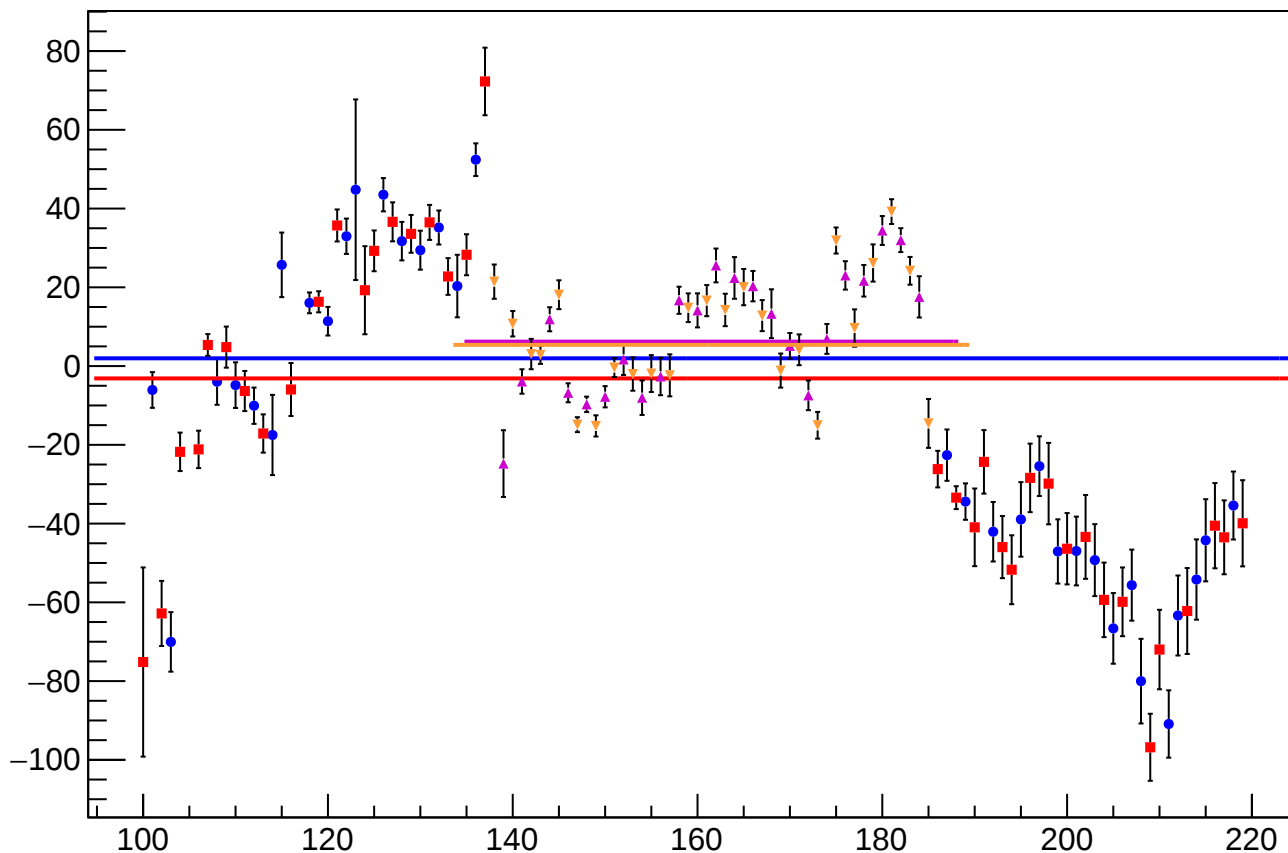
Right: 233.590 $\pm$ 0.913 χ^2 /NDF: 4001.9/33

In: 201.443 $\pm$ 0.787 χ^2 /NDF:3926.3/38

Out: 202.769 $\pm$ 0.729 χ^2 /NDF:7655.8/42

All: 202.156 $\pm$ 0.535 χ^2 /NDF: 11583.7/81

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.969 ± 1.011 $\chi^2/\text{NDF}: 1204.2/32$

Left Out: 5.394 ± 0.688 $\chi^2/\text{NDF}: 526.5/24$

Right Out: -3.131 ± 0.914 $\chi^2/\text{NDF}: 1228.4/36$

Left In: 6.206 ± 0.732 $\chi^2/\text{NDF}: 407.5/22$

Left: 5.775 ± 0.501 $\chi^2/\text{NDF}: 934.7/47$

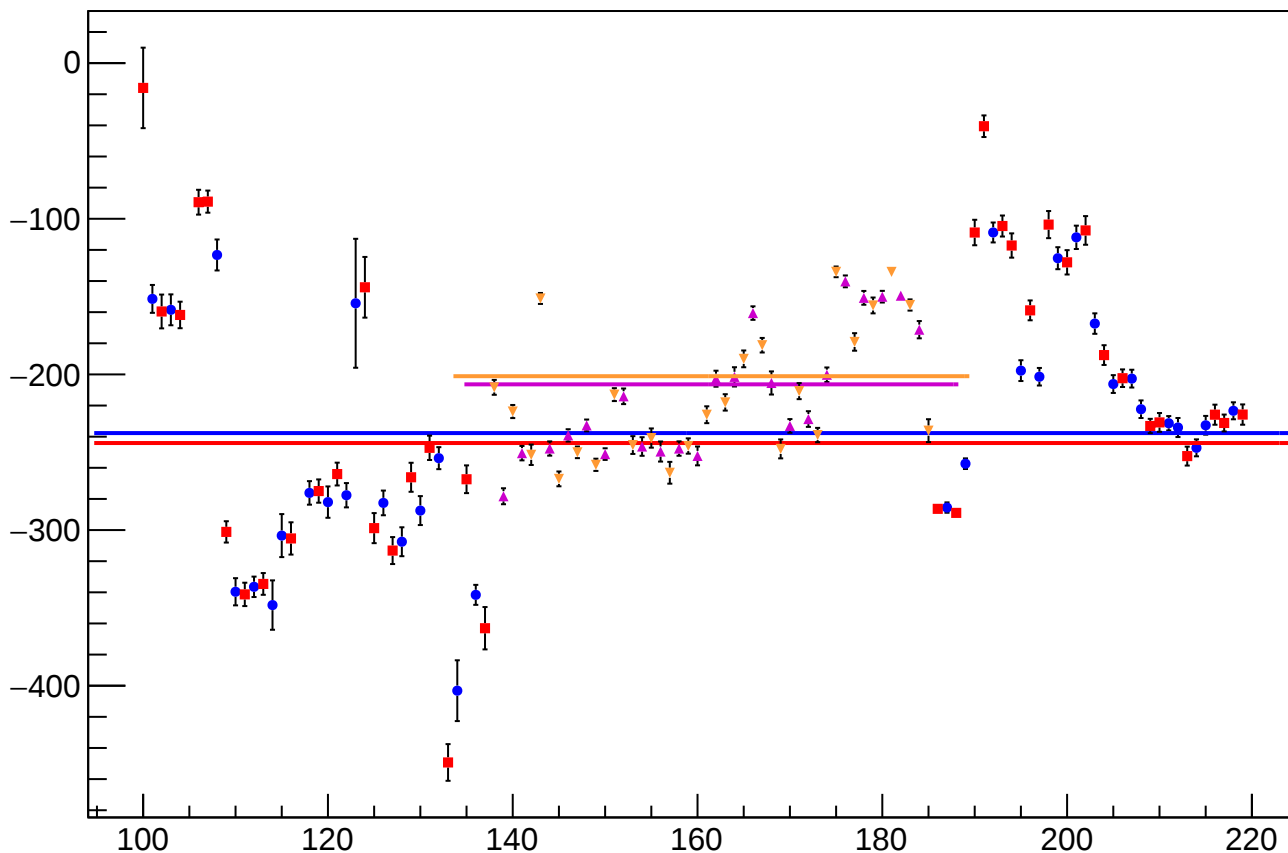
Right: -0.838 ± 0.678 $\chi^2/\text{NDF}: 2446.7/69$

In: 4.750 ± 0.593 $\chi^2/\text{NDF}: 1623.3/55$

Out: 2.309 ± 0.550 $\chi^2/\text{NDF}: 1810.5/61$

All: 3.438 ± 0.403 $\chi^2/\text{NDF}: 3442.9/117$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -237.688 ± 1.129 $\chi^2/\text{NDF}: 2714.2/32$

Left Out: -201.144 ± 0.918 $\chi^2/\text{NDF}: 2488.8/24$

Right Out: -244.081 ± 0.955 $\chi^2/\text{NDF}: 5859.9/36$

Left In: -206.379 ± 0.950 $\chi^2/\text{NDF}: 2111.6/22$

Left: -203.672 ± 0.660 $\chi^2/\text{NDF}: 4616.1/47$

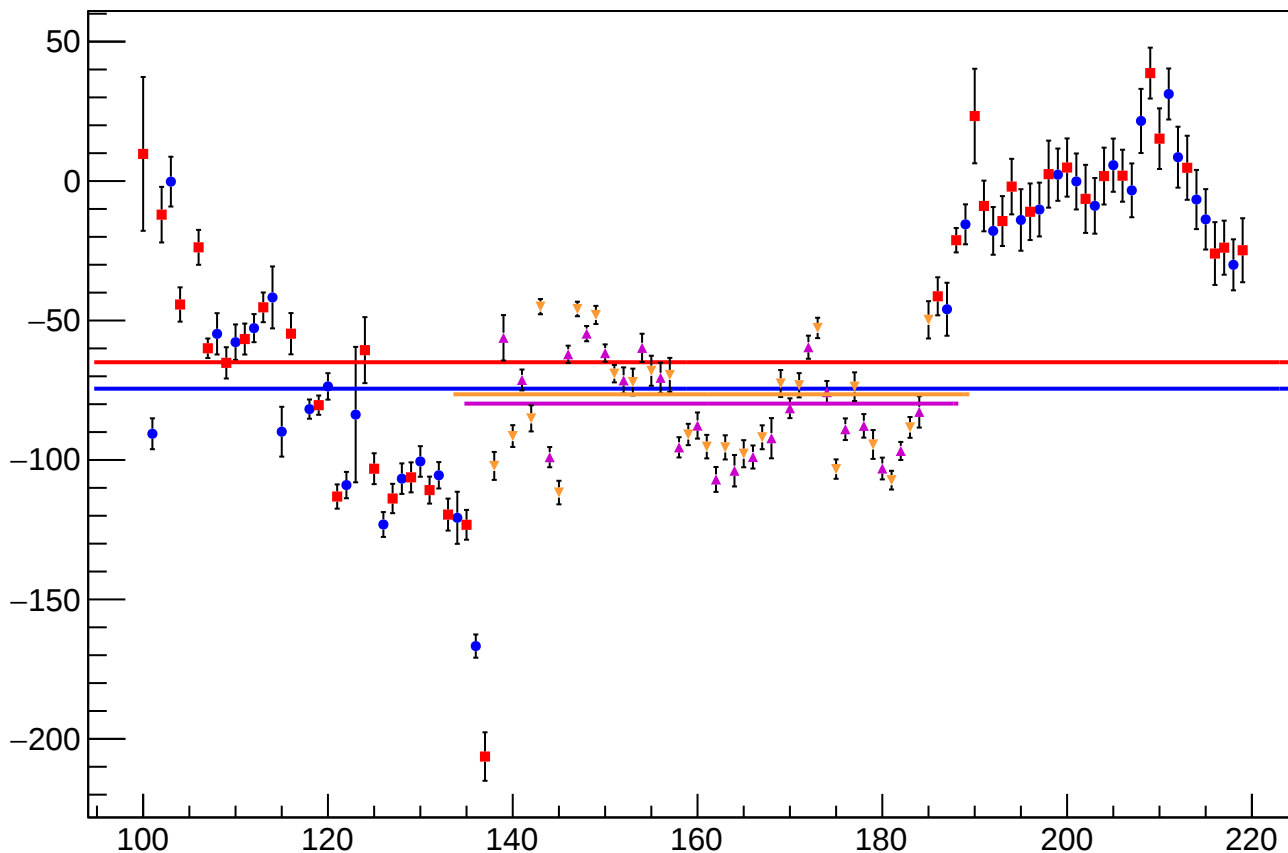
Right: -241.415 ± 0.729 $\chi^2/\text{NDF}: 8592.8/69$

In: -219.352 ± 0.727 $\chi^2/\text{NDF}: 5276.2/55$

Out: -221.765 ± 0.662 $\chi^2/\text{NDF}: 9399.7/61$

All: -220.672 ± 0.489 $\chi^2/\text{NDF}: 14682.0/117$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -74.442 ± 1.172 χ^2/NDF : 1756.7/32

Left Out: -76.460 ± 0.797 χ^2/NDF : 781.3/24

Right Out: -64.957 ± 1.084 χ^2/NDF : 1744.0/36

Left In: -79.792 ± 0.840 χ^2/NDF : 412.3/22

Left: -78.038 ± 0.578 χ^2/NDF : 1201.9/47

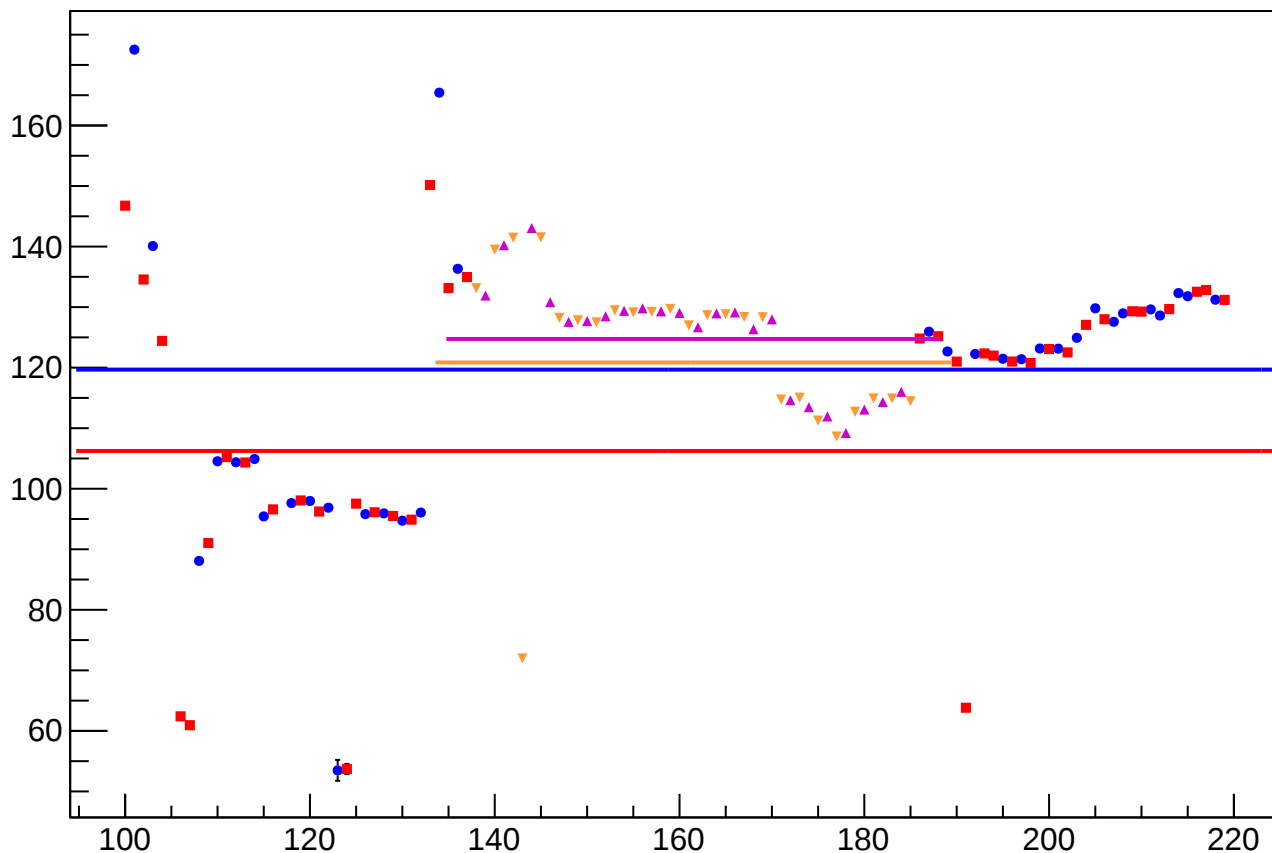
Right: -69.328 ± 0.796 χ^2/NDF : 3536.0/69

In: -77.978 ± 0.683 χ^2/NDF : 2182.7/55

Out: -72.425 ± 0.642 χ^2/NDF : 2598.4/61

All: -75.031 ± 0.468 χ^2/NDF : 4816.3/117

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 119.677 $\pm$ 0.060 χ^2 /NDF: 112392.9/32

Left Out: 120.855 $\pm$ 0.038 χ^2 /NDF:182759.1/24

Right Out: 106.238 $\pm$ 0.053 χ^2 /NDF: 255320.8/36

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

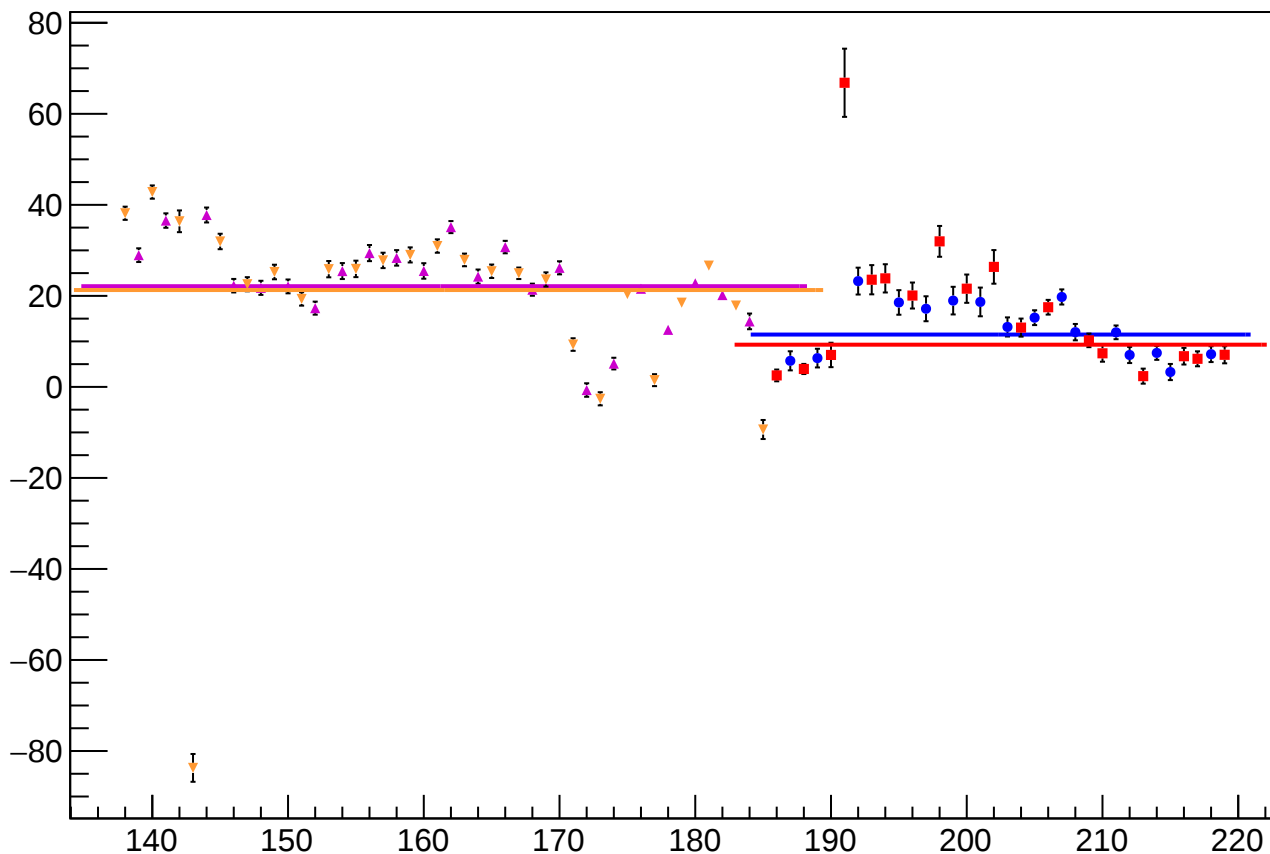
Right: 112.149 $\pm$ 0.040 χ^2 /NDF: 395501.4/69

In: 123.233 $\pm$ 0.033 χ^2 /NDF:168635.6/55

Out: 115.940 $\pm$ 0.031 χ^2 /NDF:487692.6/61

All: 119.370 $\pm$ 0.023 χ^2 /NDF: 682356.5/117

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 11.501 $\pm$ 0.490 χ^2 /NDF: 123.8/15

Left Out: 21.282 $\pm$ 0.282 χ^2 /NDF:2600.5/24

Right Out: 9.276 $\pm$ 0.454 χ^2 /NDF: 303.3/17

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

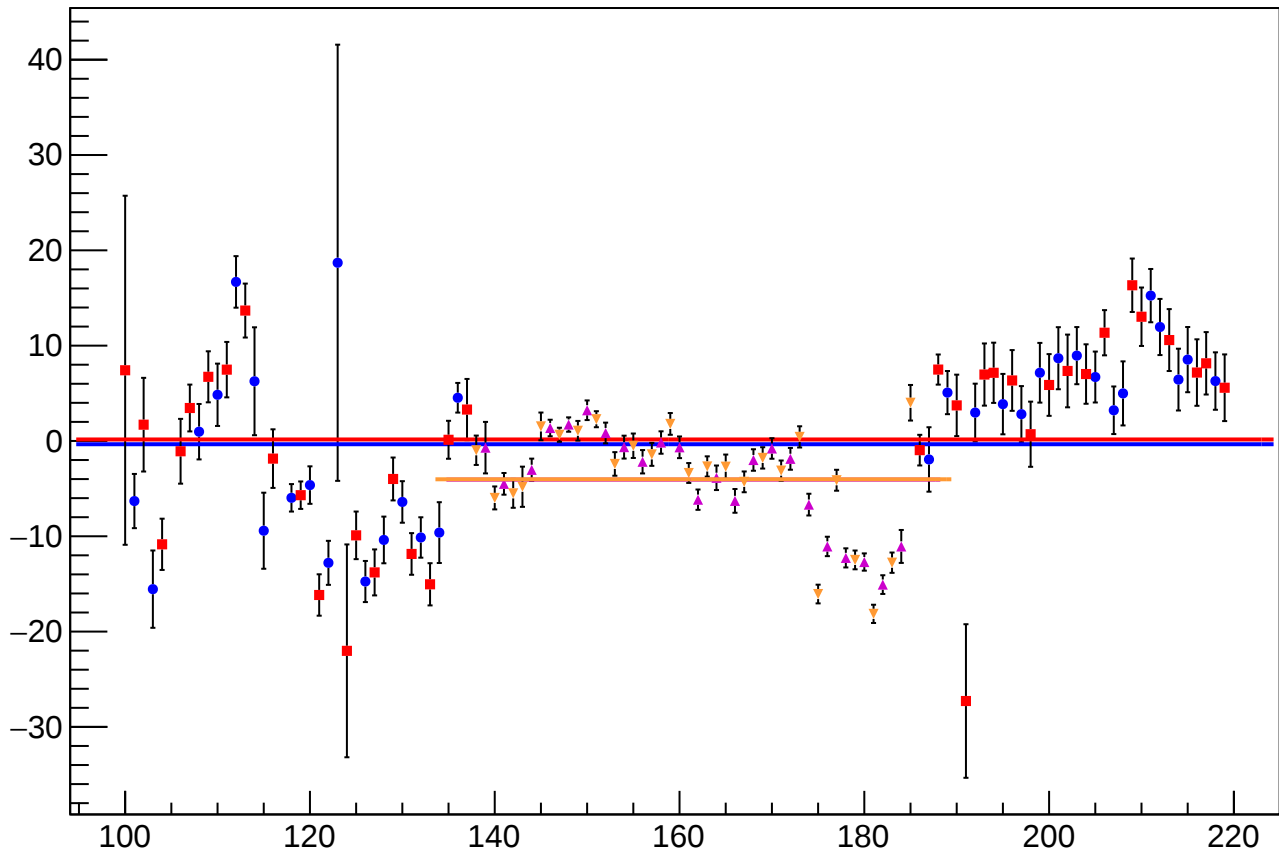
Right: 10.305 $\pm$ 0.333 χ^2 /NDF: 438.1/33

In: 19.432 $\pm$ 0.247 χ^2 /NDF:1375.4/38

Out: 17.936 $\pm$ 0.240 χ^2 /NDF:3407.3/42

All: 18.663 $\pm$ 0.172 χ^2 /NDF: 4801.6/81

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.344 ± 0.460 $\chi^2/\text{NDF}: 334.9/32$

Left Out: -4.022 ± 0.223 $\chi^2/\text{NDF}: 734.1/24$

Right Out: 0.157 ± 0.437 $\chi^2/\text{NDF}: 418.1/36$

Left In: -4.059 ± 0.228 $\chi^2/\text{NDF}: 577.2/22$

Left: -4.040 ± 0.159 $\chi^2/\text{NDF}: 1311.4/47$

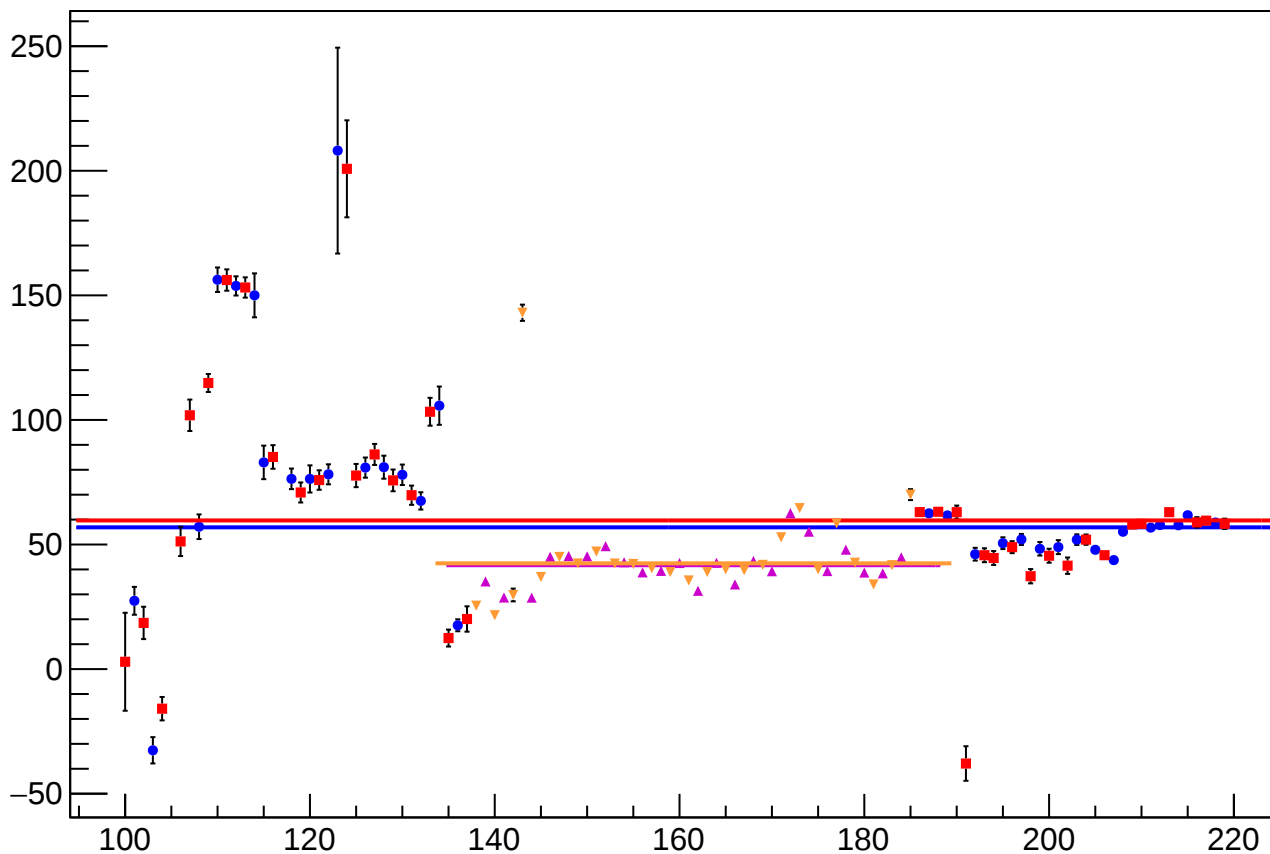
Right: -0.081 ± 0.317 $\chi^2/\text{NDF}: 753.6/69$

In: -3.327 ± 0.204 $\chi^2/\text{NDF}: 964.4/55$

Out: -3.159 ± 0.199 $\chi^2/\text{NDF}: 1224.7/61$

All: -3.240 ± 0.142 $\chi^2/\text{NDF}: 2189.4/117$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 56.898 $\pm$ 0.439 χ^2 /NDF: 2143.4/32

Left Out: 42.452 $\pm$ 0.282 χ^2 /NDF:2016.0/24

Right Out: 59.675 $\pm$ 0.395 χ^2 /NDF: 2633.4/36

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

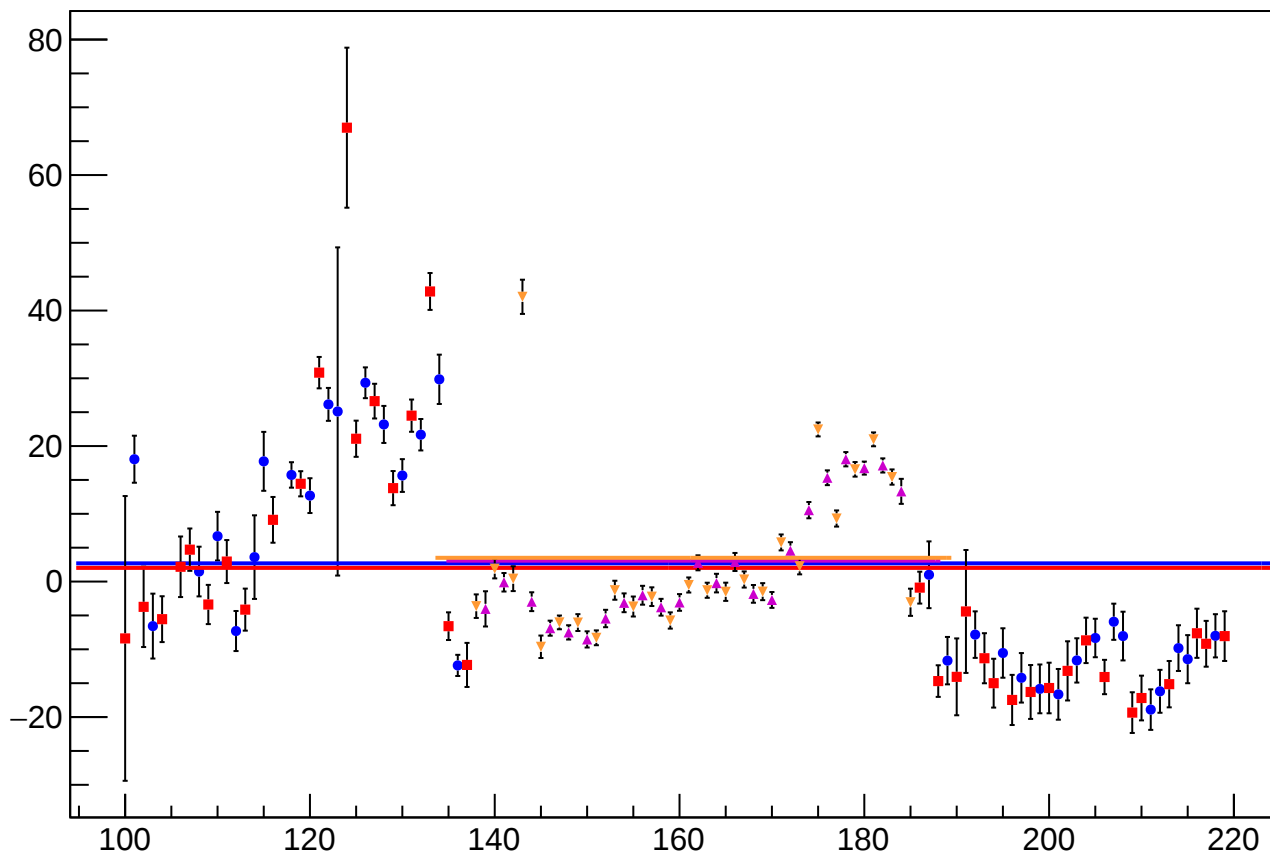
Right: 58.430 $\pm$ 0.294 χ^2 /NDF: 4799.0/69

In: 46.190 $\pm$ 0.238 χ^2 /NDF:3620.1/55

Out: 48.261 $\pm$ 0.230 χ^2 /NDF:5908.0/61

All: 47.265 $\pm$ 0.165 χ^2 /NDF: 9567.3/117

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.687 ± 0.522 χ^2/NDF : 939.9/32

Left Out: 3.505 ± 0.252 χ^2/NDF : 1691.3/24

Right Out: 2.020 ± 0.510 χ^2/NDF : 1130.5/36

Left In: 3.081 ± 0.257 χ^2/NDF : 1265.7/22

Left: 3.297 ± 0.180 χ^2/NDF : 2958.4/47

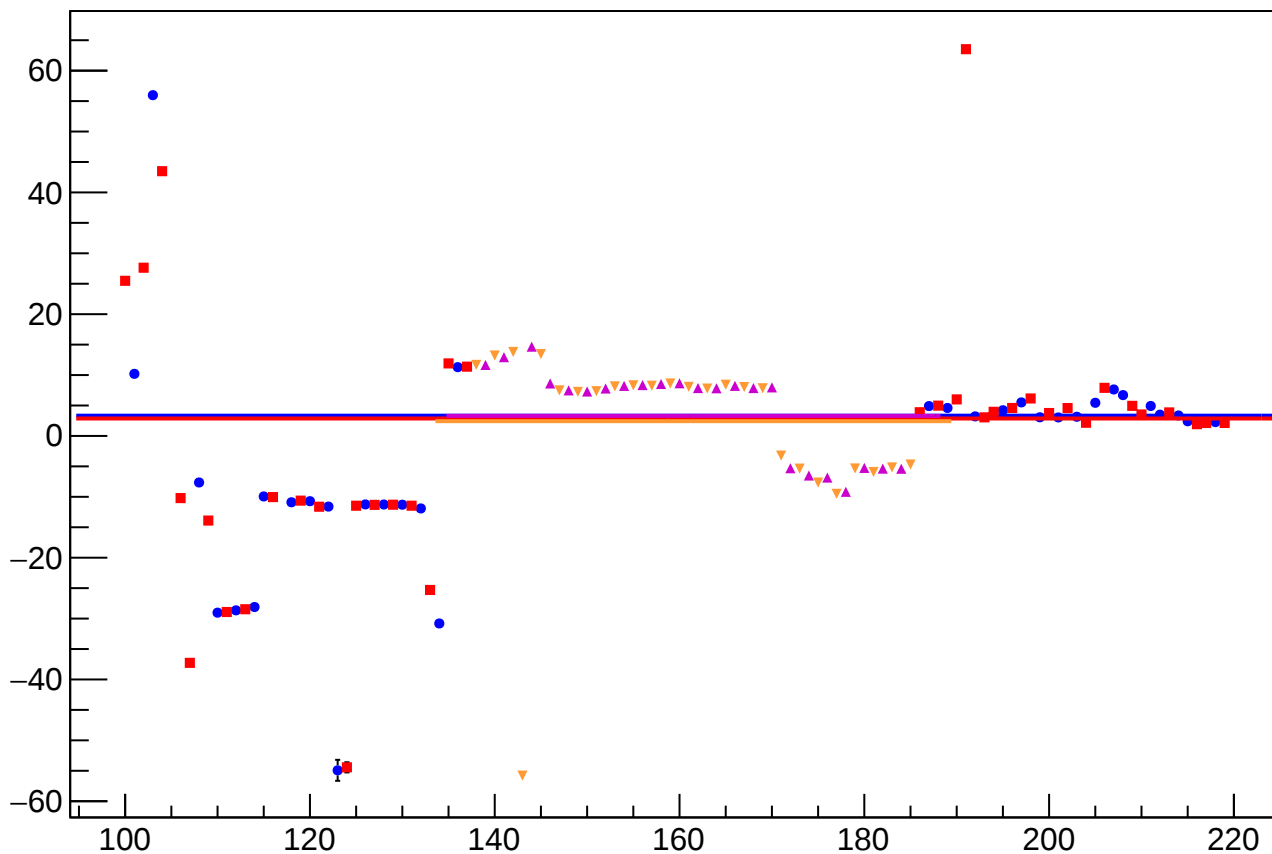
Right: 2.345 ± 0.365 χ^2/NDF : 2071.2/69

In: 3.005 ± 0.231 χ^2/NDF : 2206.1/55

Out: 3.213 ± 0.226 χ^2/NDF : 2828.6/61

All: 3.111 ± 0.161 χ^2/NDF : 5035.0/117

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 3.330 $\pm$ 0.025 χ^2 /NDF: 362458.9/32

Left Out: 2.425 $\pm$ 0.012 χ^2 /NDF: 616382.5/24

Right Out: 2.865 $\pm$ 0.024 χ^2 /NDF: 434578.6/36

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

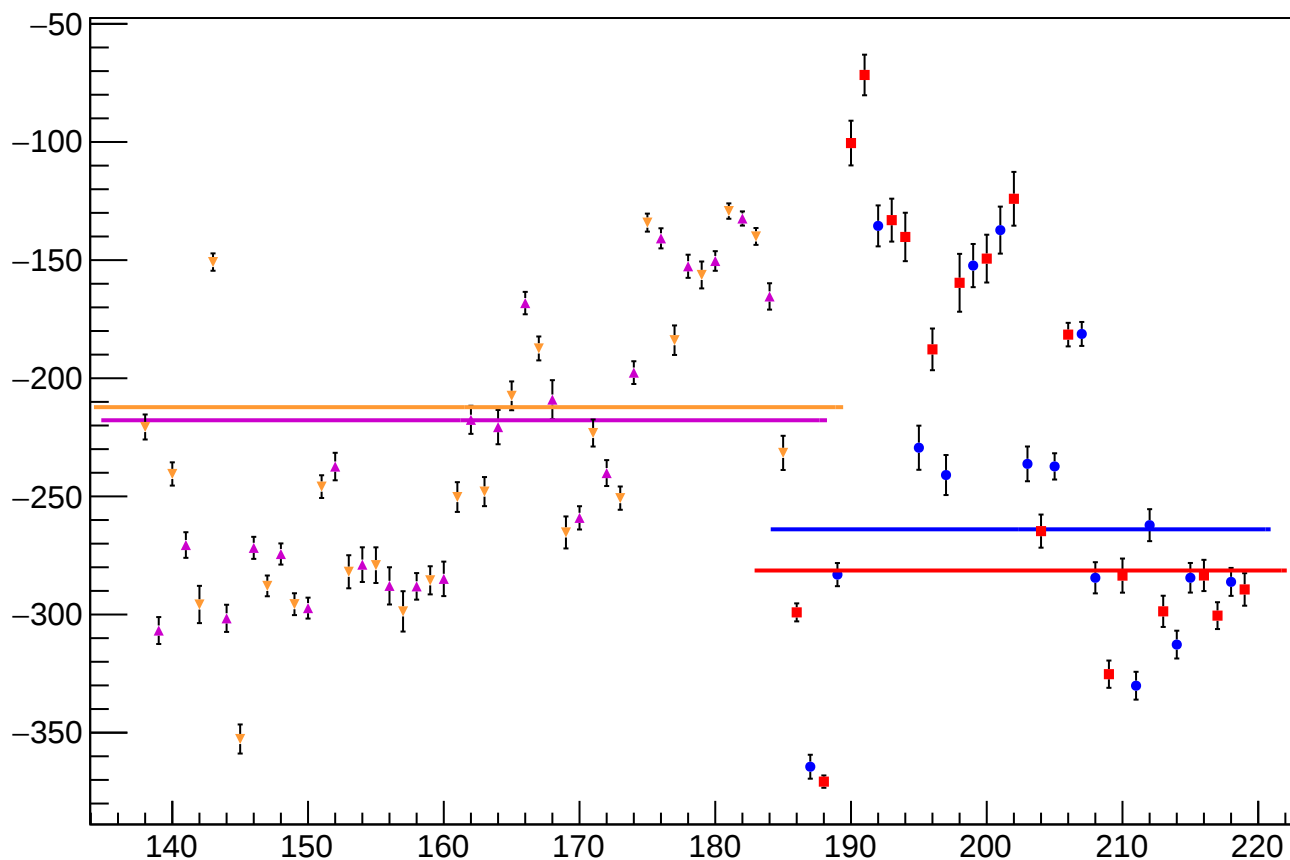
Right: 3.094 $\pm$ 0.017 χ^2 /NDF: 797219.0/69

In: 3.299 $\pm$ 0.011 χ^2 /NDF: 766784.6/55

Out: 2.507 $\pm$ 0.010 χ^2 /NDF: 1051228.6/61

All: 2.899 $\pm$ 0.007 χ^2 /NDF: 1820871.9/117

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -263.938+/-1.606 χ^2/NDF : 1493.8/15

Left Out: -212.231+/-1.029 χ^2/NDF : 3875.4/24

Right Out: -281.366+/-1.405 χ^2/NDF : 3666.4/17

Left In: -217.779+/-1.067 χ^2/NDF : 3448.9/22

Left: -214.906+/-0.741 χ^2/NDF : 7338.3/47

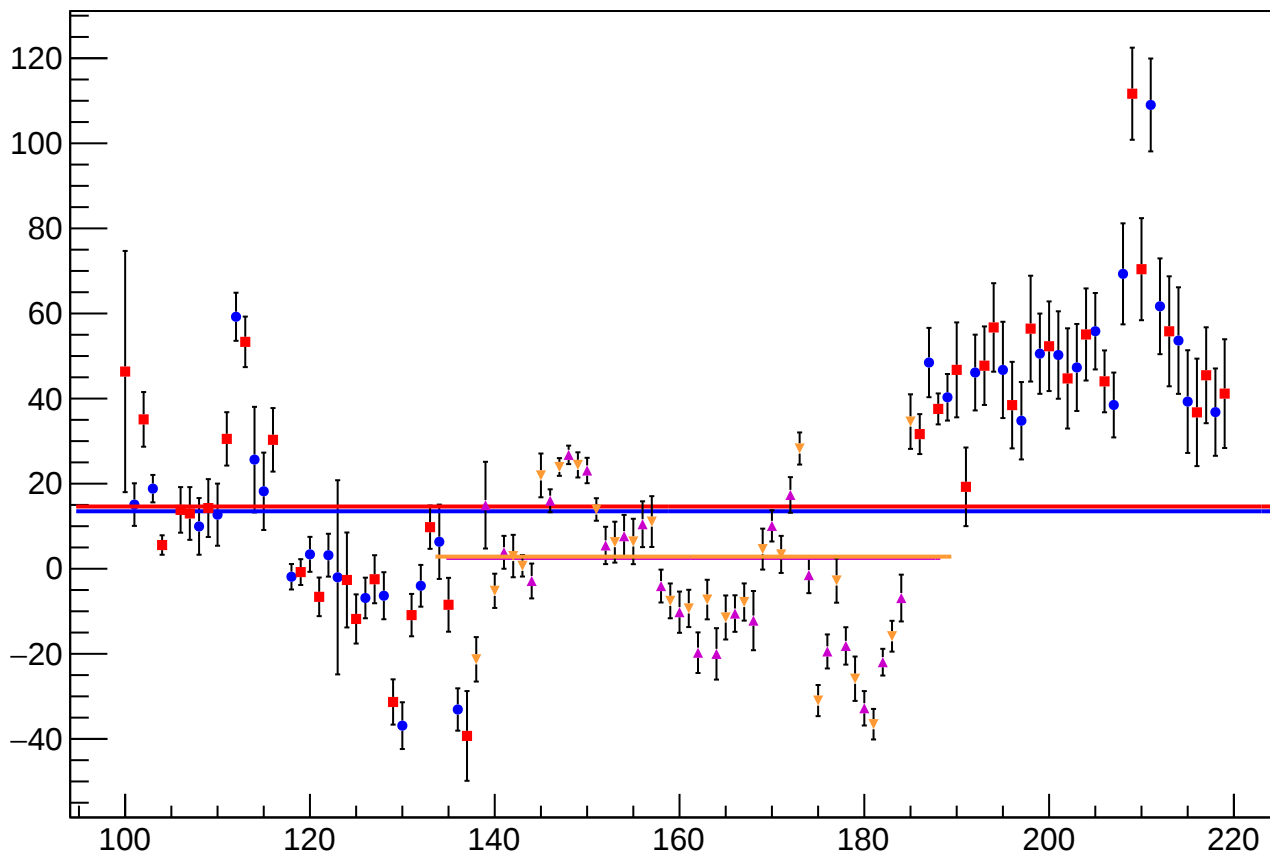
Right: -273.809+/-1.057 χ^2/NDF : 5226.9/33

In: -231.913+/-0.889 χ^2/NDF : 5516.0/38

Out: -236.378+/-0.830 χ^2/NDF : 9117.2/42

All: -234.297+/-0.607 χ^2/NDF : 14646.6/81

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.507 $\pm$ 1.097 χ^2 /NDF: 602.2/32

Left Out: 2.848 $\pm$ 0.775 χ^2 /NDF: 582.1/24

Right Out: 14.631 $\pm$ 0.996 χ^2 /NDF: 585.9/36

Left In: 2.540 $\pm$ 0.822 χ^2 /NDF: 473.6/22

Left: 2.703 $\pm$ 0.564 χ^2 /NDF: 1055.8/47

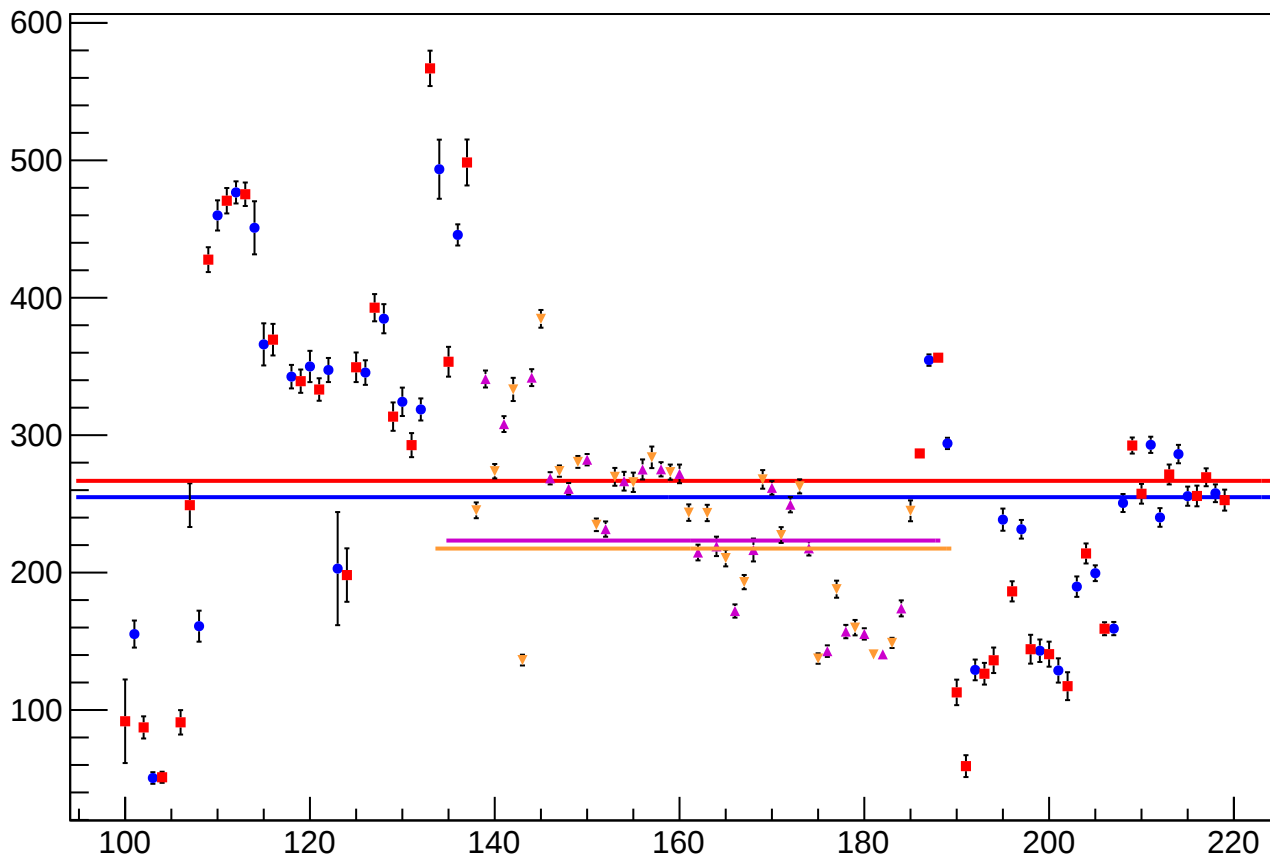
Right: 14.123 $\pm$ 0.737 χ^2 /NDF: 1188.7/69

In: 6.488 $\pm$ 0.658 χ^2 /NDF: 1139.8/55

Out: 7.290 $\pm$ 0.611 χ^2 /NDF: 1255.3/61

All: 6.918 $\pm$ 0.448 χ^2 /NDF: 2395.9/117

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 254.885 $\pm$ 1.253 χ^2 /NDF: 7141.0/32

Left Out: 217.484 $\pm$ 1.032 χ^2 /NDF: 3769.5/24

Right Out: 266.753 $\pm$ 1.079 χ^2 /NDF: 11058.0/36

Left In: 223.309 $\pm$ 1.062 χ^2 /NDF: 3378.0/22

Left: 220.314 $\pm$ 0.740 χ^2 /NDF: 7163.0/47

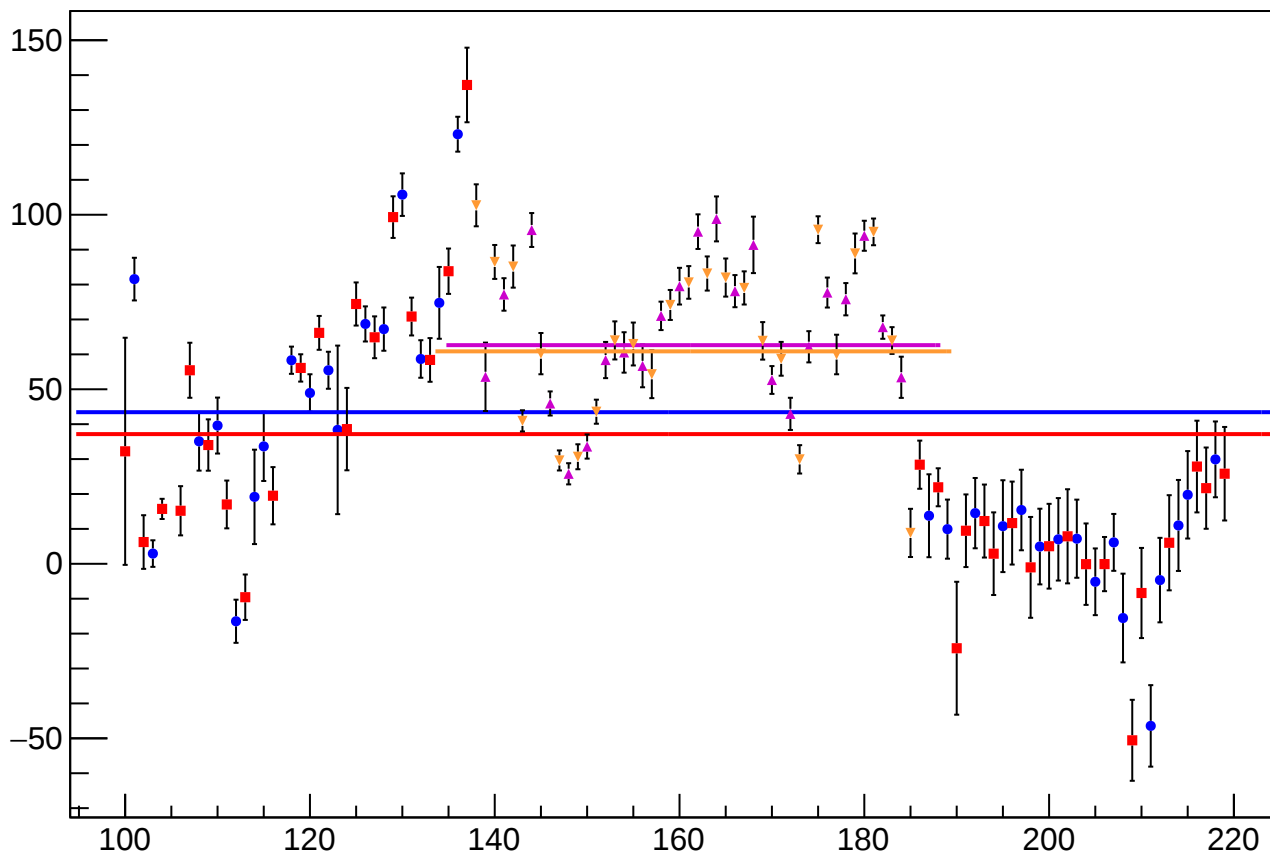
Right: 261.703 $\pm$ 0.817 χ^2 /NDF: 18250.5/69

In: 236.506 $\pm$ 0.810 χ^2 /NDF: 10888.5/55

Out: 241.040 $\pm$ 0.746 χ^2 /NDF: 15916.5/61

All: 238.960 $\pm$ 0.549 χ^2 /NDF: 26822.0/117

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.435 $\pm$ 1.273 χ^2 /NDF: 917.7/32

Left Out: 60.863 $\pm$ 0.897 χ^2 /NDF: 731.6/24

Right Out: 37.155 $\pm$ 1.187 χ^2 /NDF: 741.8/36

Left In: 62.640 $\pm$ 0.943 χ^2 /NDF: 515.4/22

Left: 61.707 $\pm$ 0.650 χ^2 /NDF: 1248.9/47

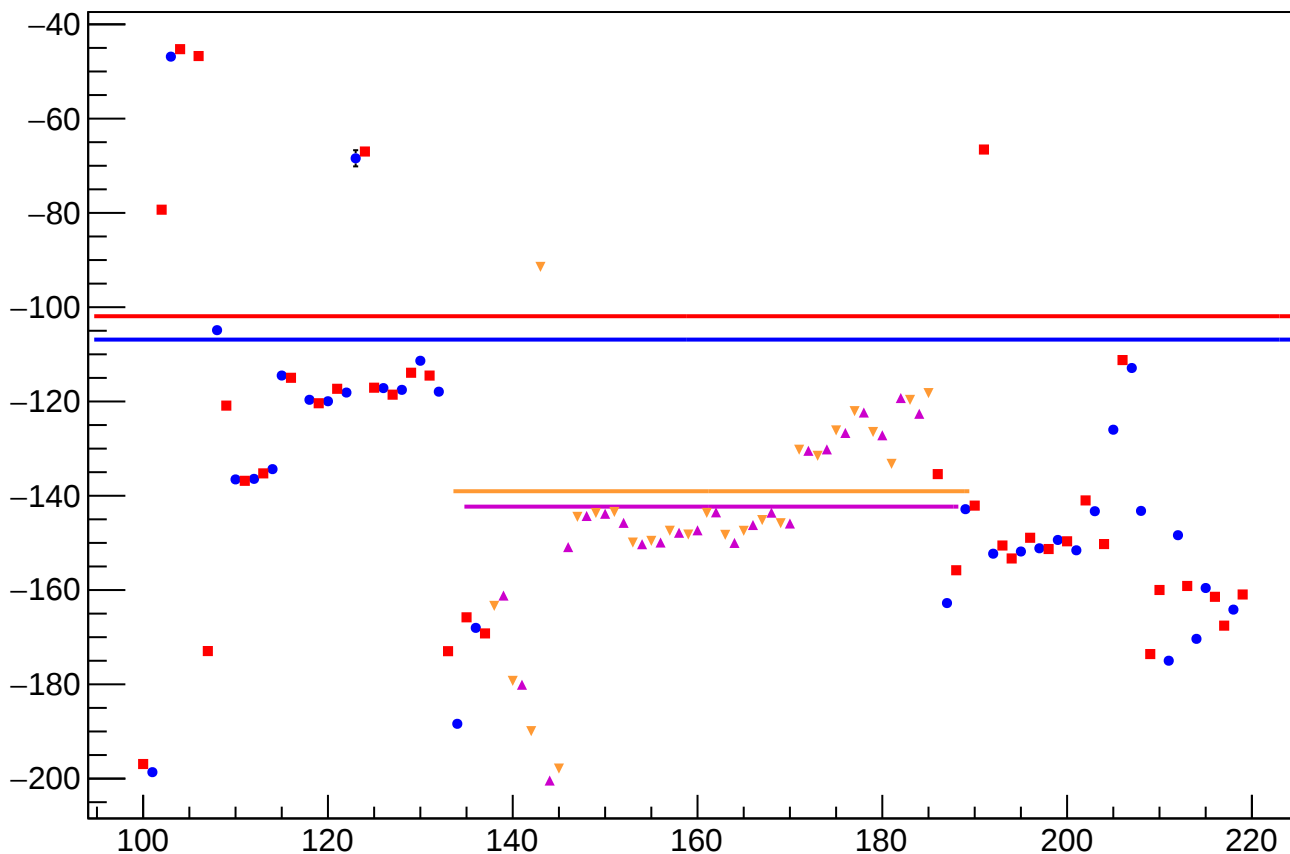
Right: 40.074 $\pm$ 0.868 χ^2 /NDF: 1672.5/69

In: 55.841 $\pm$ 0.758 χ^2 /NDF: 1580.0/55

Out: 52.247 $\pm$ 0.715 χ^2 /NDF: 1727.5/61

All: 53.941 $\pm$ 0.520 χ^2 /NDF: 3319.4/117

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -106.874+/-0.057 χ^2/NDF : 745818.6/32

Left Out: -139.040+/-0.043 χ^2/NDF : 258113.4/24

Right Out: -101.915+/-0.054 χ^2/NDF : 785773.0/36

Left In: -142.305+/-0.044 χ^2/NDF : 143351.8/22

Left: -140.627+/-0.031 χ^2/NDF : 404285.9/47

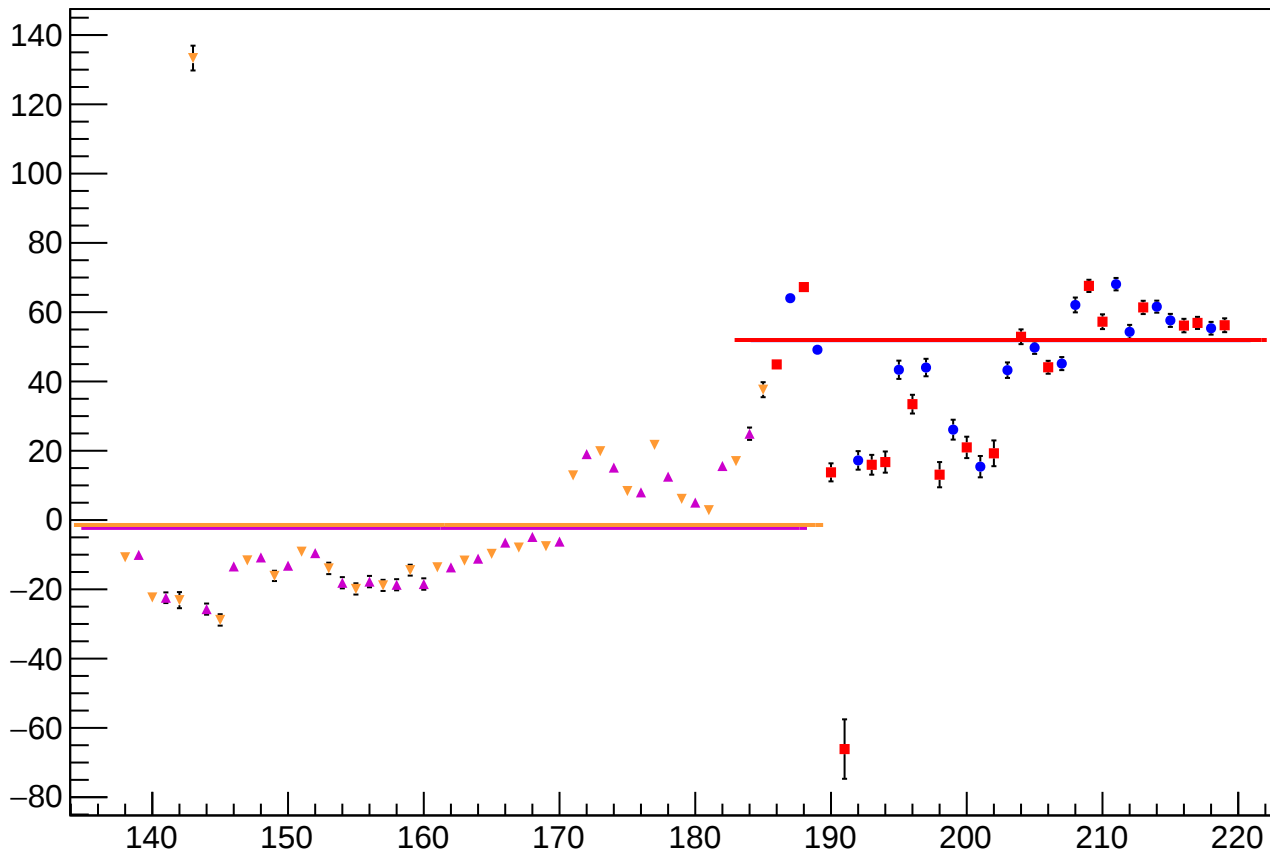
Right: -104.259+/-0.039 χ^2/NDF : 1535574.6/69

In: -129.061+/-0.035 χ^2/NDF : 1130701.0/55

Out: -124.695+/-0.034 χ^2/NDF : 1333676.0/61

All: -126.795+/-0.024 χ^2/NDF : 2472510.1/111

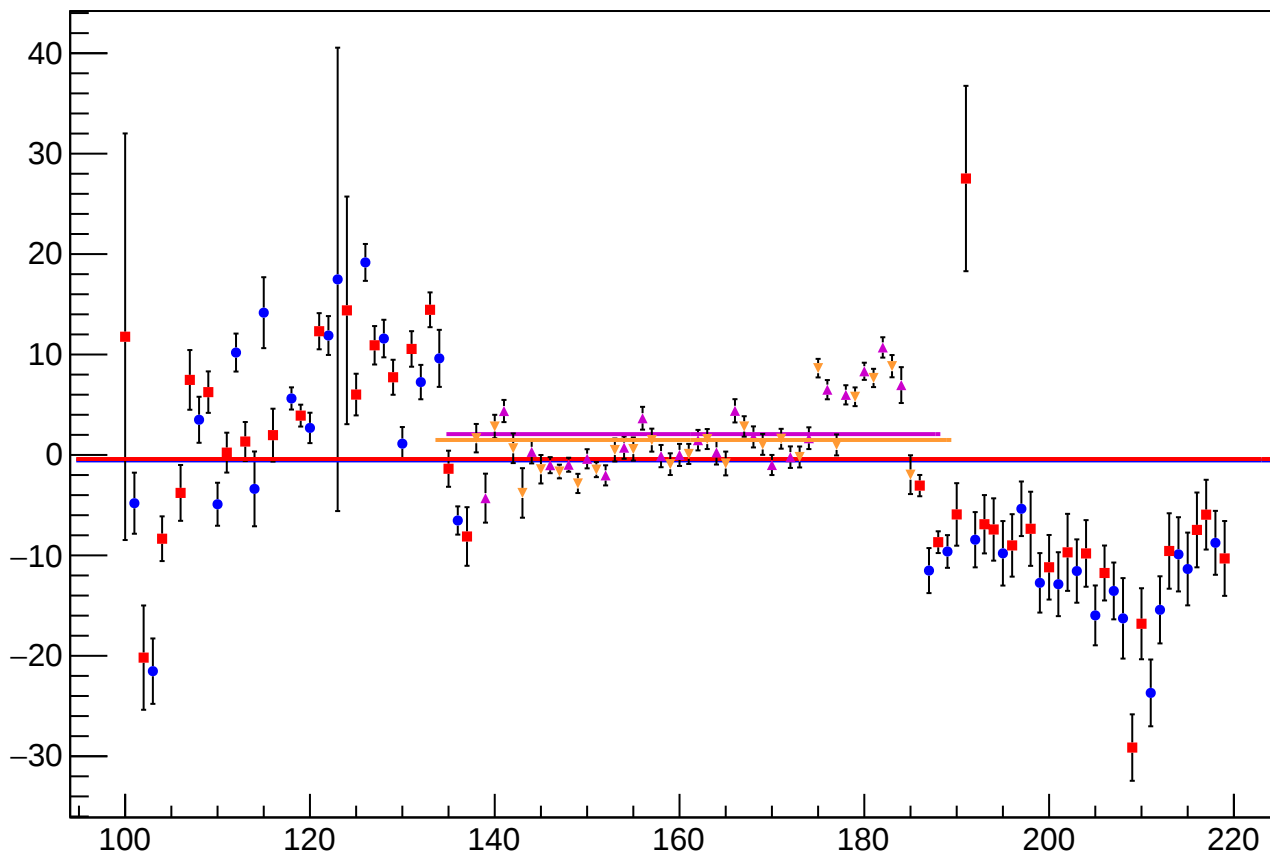
reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 51.929 $\pm$ 0.492 χ^2 /NDF: 667.2/15
 Left Out: -1.427 $\pm$ 0.268 χ^2 /NDF:4339.0/24
 Right Out: 51.969 $\pm$ 0.410 χ^2 /NDF: 1635.0/17
 Left In: -2.270 $\pm$ 0.271 χ^2 /NDF:2521.6/22

Left: -1.844 $\pm$ 0.190 χ^2 /NDF: 6865.5/47
 Right: 51.952 $\pm$ 0.315 χ^2 /NDF: 2302.1/33
 In: 10.316 $\pm$ 0.237 χ^2 /NDF:12495.5/38
 Out: 14.522 $\pm$ 0.224 χ^2 /NDF:17863.6/42
 All: 12.539 $\pm$ 0.163 χ^2 /NDF: 30525.2/81

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.545 ± 0.393 χ^2/NDF : 660.9/32

Left Out: 1.491 ± 0.210 χ^2/NDF : 259.1/24

Right Out: -0.404 ± 0.363 χ^2/NDF : 557.8/36

Left In: 2.075 ± 0.215 χ^2/NDF : 274.6/22

Left: 1.776 ± 0.150 χ^2/NDF : 537.4/47

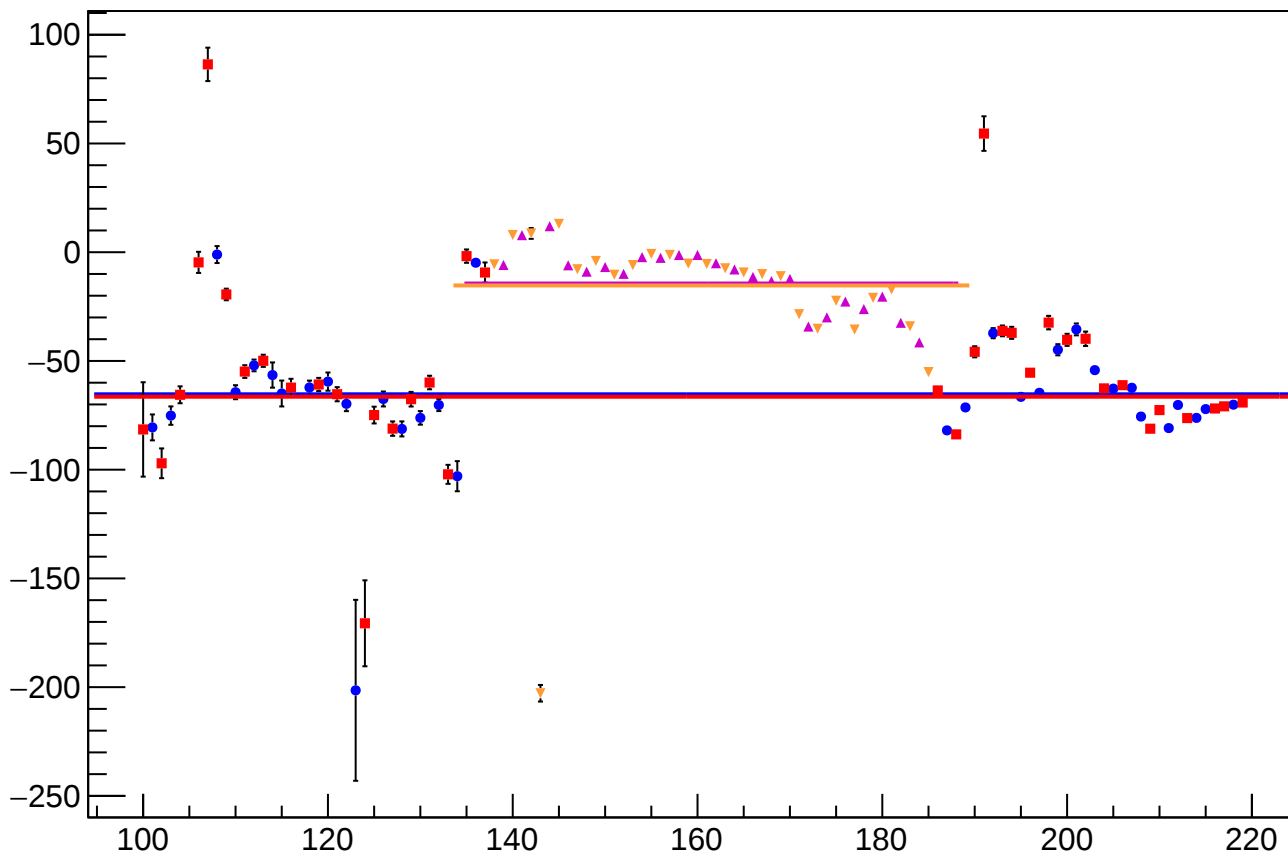
Right: -0.469 ± 0.267 χ^2/NDF : 1218.8/69

In: 1.470 ± 0.189 χ^2/NDF : 969.6/55

Out: 1.015 ± 0.182 χ^2/NDF : 837.3/61

All: 1.234 ± 0.131 χ^2/NDF : 1809.9/117

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.334 ± 0.410 χ^2/NDF : 1915.8/32

Left Out: -15.279 ± 0.267 χ^2/NDF : 4820.1/24

Right Out: -66.444 ± 0.334 χ^2/NDF : 3433.7/36

Left In: -14.406 ± 0.269 χ^2/NDF : 2032.4/22

Left: -14.846 ± 0.189 χ^2/NDF : 6857.8/47

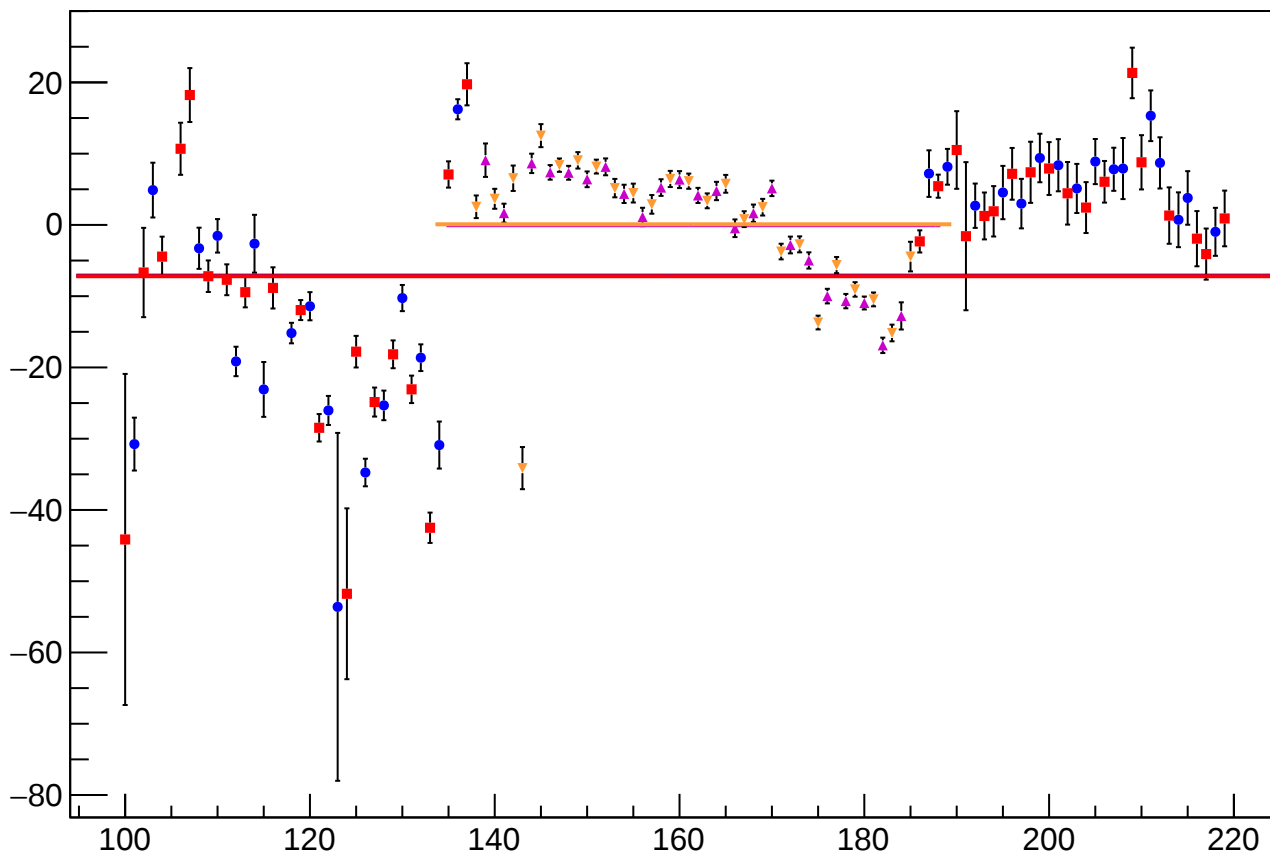
Right: -66.000 ± 0.259 χ^2/NDF : 5353.9/69

In: -29.763 ± 0.225 χ^2/NDF : 14747.7/55

Out: -35.182 ± 0.209 χ^2/NDF : 22560.6/61

All: -32.677 ± 0.153 χ^2/NDF : 37620.6/117

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -7.117 ± 0.454 χ^2/NDF : 1159.0/32

Left Out: 0.087 ± 0.238 χ^2/NDF : 1172.3/24

Right Out: -7.201 ± 0.433 χ^2/NDF : 1104.5/36

Left In: -0.044 ± 0.243 χ^2/NDF : 1028.2/22

Left: 0.023 ± 0.170 χ^2/NDF : 2200.6/47

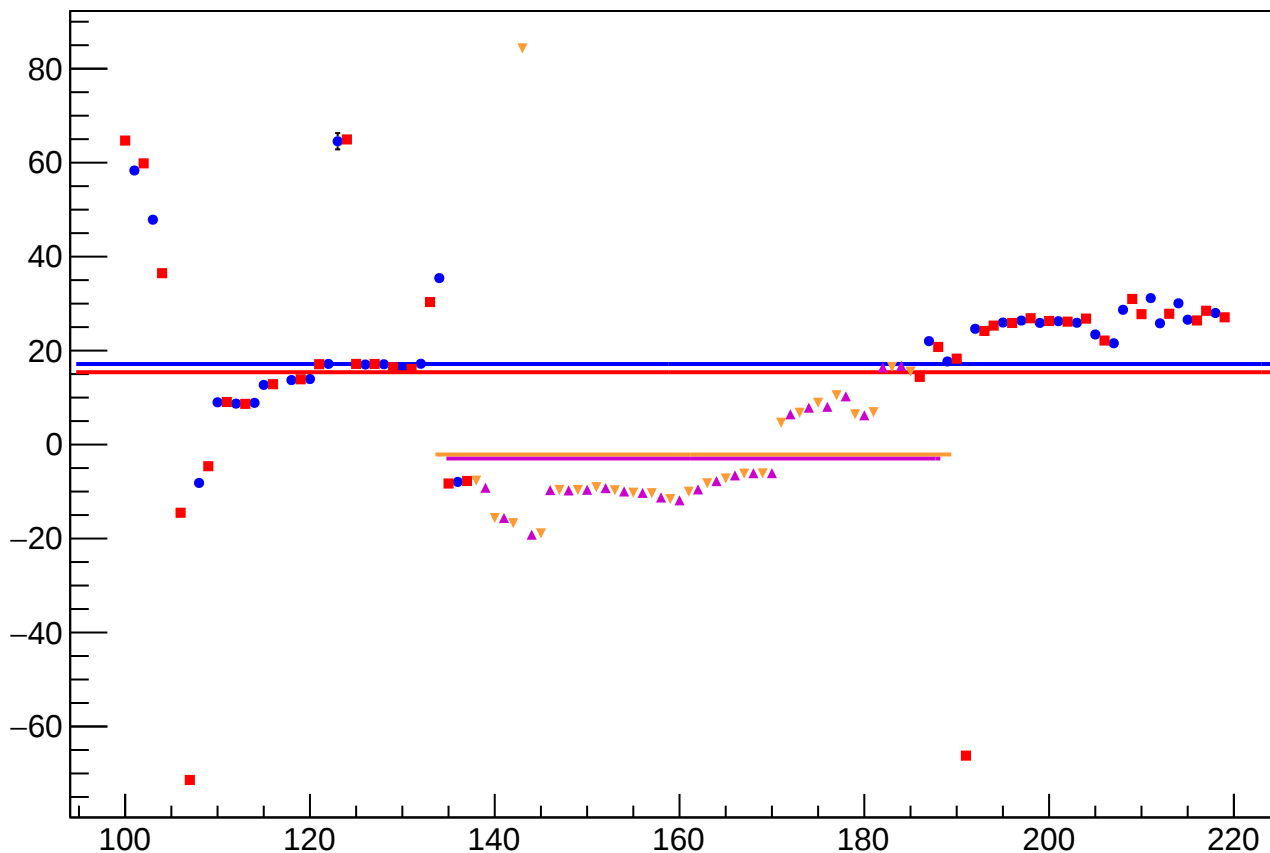
Right: -7.161 ± 0.313 χ^2/NDF : 2263.5/69

In: -1.622 ± 0.214 χ^2/NDF : 2376.1/55

Out: -1.606 ± 0.209 χ^2/NDF : 2494.2/61

All: -1.614 ± 0.150 χ^2/NDF : 4870.3/117

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 17.144+/-0.023 χ^2/NDF : 495895.0/32

Left Out: -2.105+/-0.011 χ^2/NDF : 1093120.2/24

Right Out: 15.402+/-0.022 χ^2/NDF : 776652.2/36

Left In: -2.959+/-0.011 χ^2/NDF : 763000.9/22

Left: -2.529+/-0.008 χ^2/NDF : 1859155.7/47

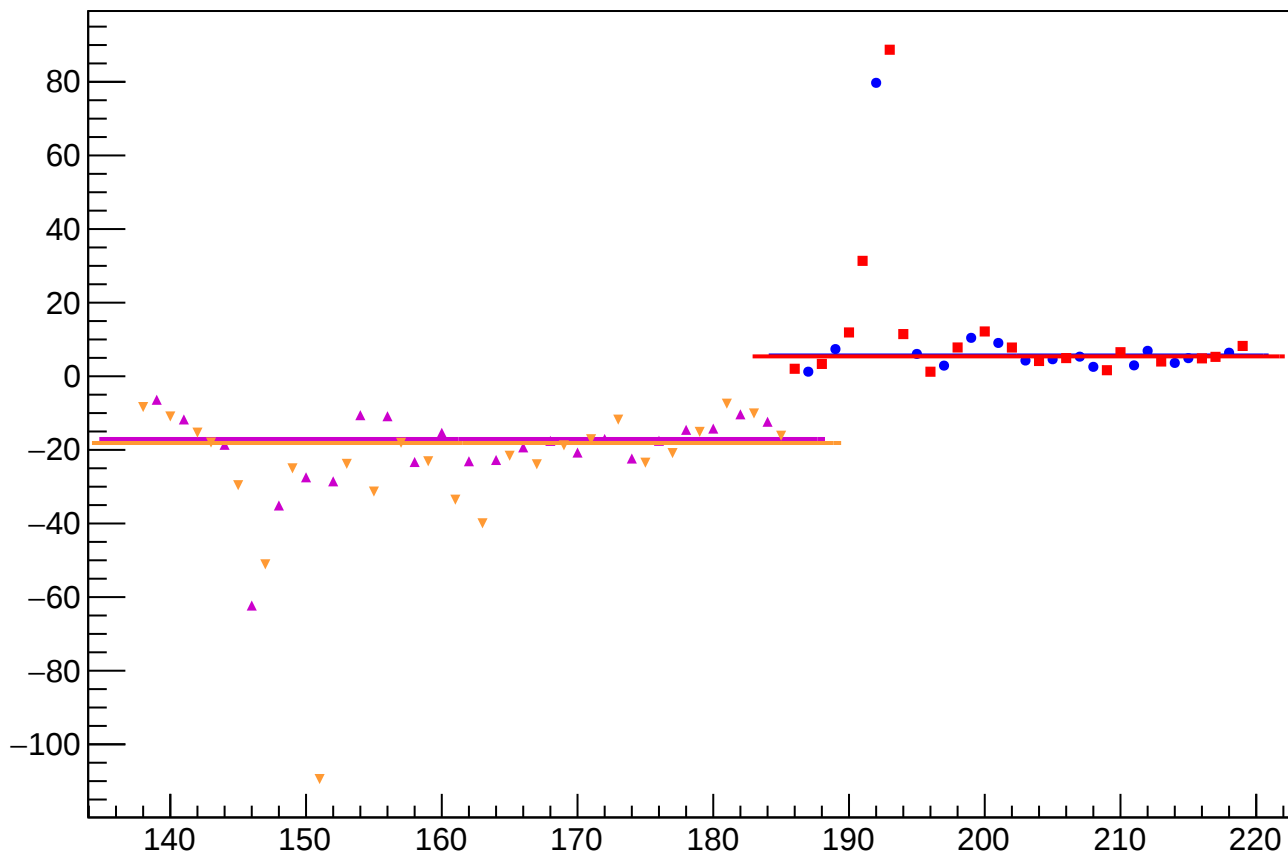
Right: 16.257+/-0.016 χ^2/NDF : 1275594.5/69

In: 0.912+/-0.010 χ^2/NDF : 1901860.3/55

Out: 1.331+/-0.010 χ^2/NDF : 2374003.5/61

All: 1.123+/-0.007 χ^2/NDF : 4276769.6/117

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.653 ± 0.047 $\chi^2/\text{NDF}: 26486.8/15$

Left Out: -18.128 ± 0.039 $\chi^2/\text{NDF}: 88551.6/24$

Right Out: 5.403 ± 0.045 $\chi^2/\text{NDF}: 27114.4/17$

Left In: -17.038 ± 0.038 $\chi^2/\text{NDF}: 44141.1/22$

Left: -17.572 ± 0.027 $\chi^2/\text{NDF}: 133092.4/47$

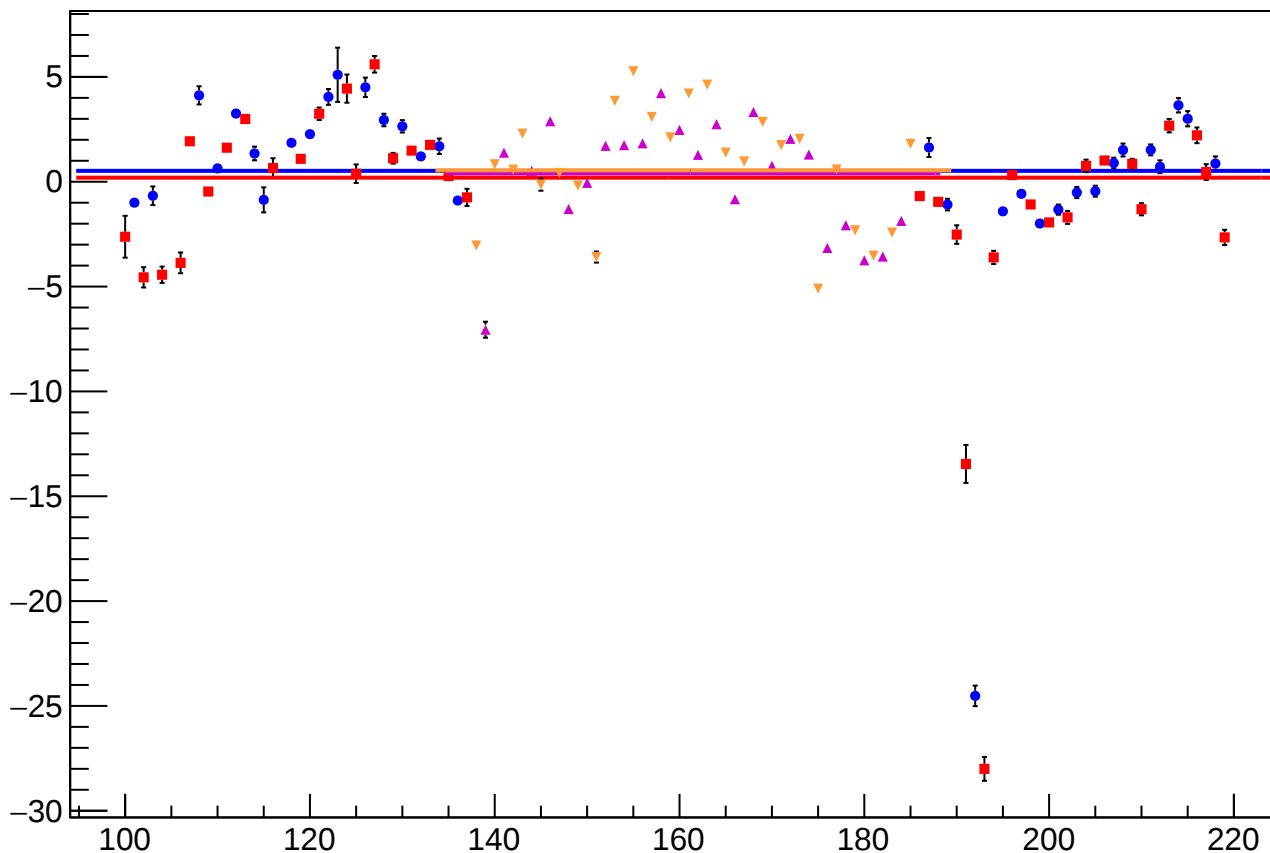
Right: 5.523 ± 0.033 $\chi^2/\text{NDF}: 53615.9/33$

In: -8.032 ± 0.030 $\chi^2/\text{NDF}: 211024.5/38$

Out: -8.105 ± 0.029 $\chi^2/\text{NDF}: 271427.2/42$

All: -8.068 ± 0.021 $\chi^2/\text{NDF}: 482454.8/81$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.520 ± 0.046 χ^2/NDF : 3995.4/32

Left Out: 0.543 ± 0.032 χ^2/NDF : 7085.3/24

Right Out: 0.194 ± 0.043 χ^2/NDF : 4450.6/36

Left In: 0.397 ± 0.031 χ^2/NDF : 6235.6/22

Left: 0.466 ± 0.022 χ^2/NDF : 13331.6/47

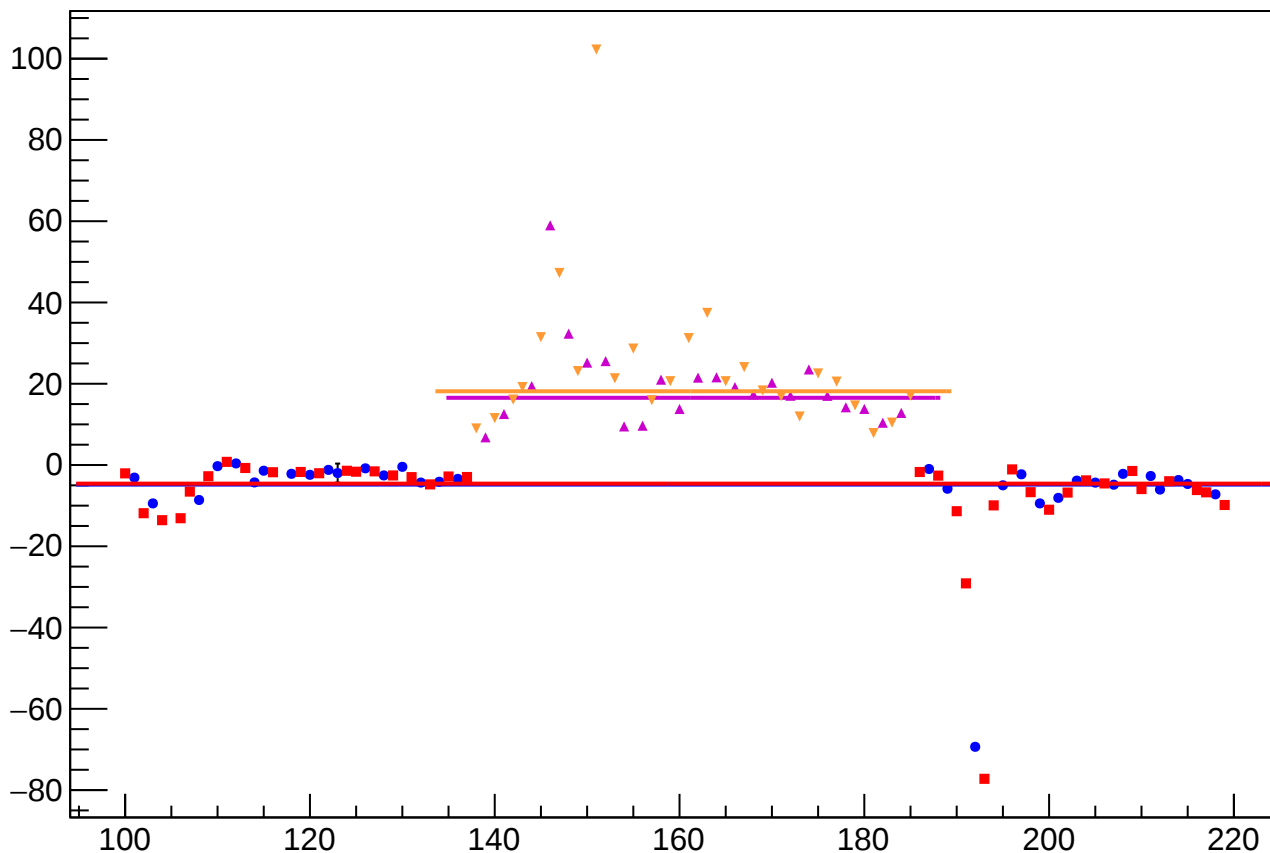
Right: 0.348 ± 0.031 χ^2/NDF : 8472.7/69

In: 0.435 ± 0.025 χ^2/NDF : 10235.9/55

Out: 0.418 ± 0.026 χ^2/NDF : 11577.5/61

All: 0.427 ± 0.018 χ^2/NDF : 21813.6/117

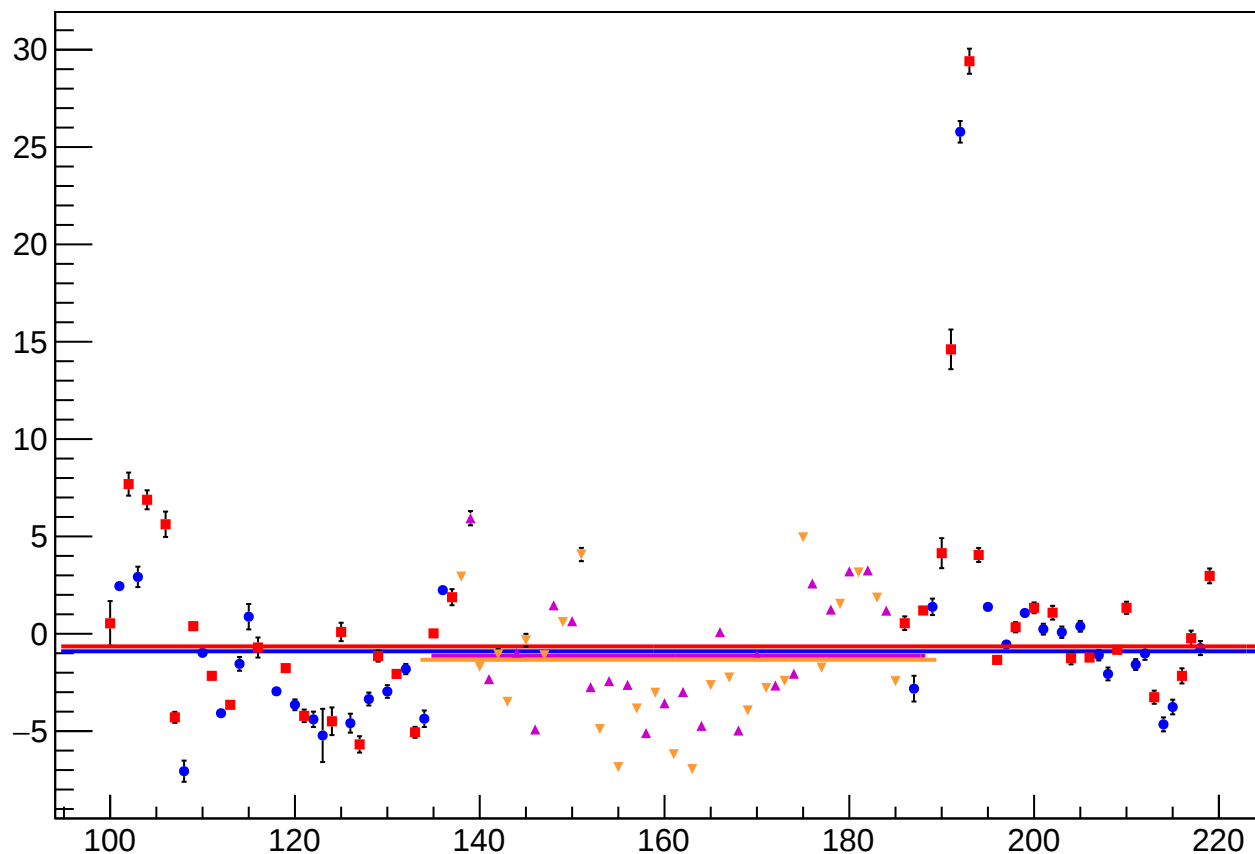
reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.812 ± 0.042 $\chi^2/\text{NDF}: 27400.6/32$
 Left Out: 18.150 ± 0.039 $\chi^2/\text{NDF}: 77847.8/24$
 Right Out: -4.582 ± 0.039 $\chi^2/\text{NDF}: 29038.1/36$
 Left In: 16.543 ± 0.038 $\chi^2/\text{NDF}: 40855.0/22$

Left: 17.318 ± 0.027 $\chi^2/\text{NDF}: 119577.9/47$
 Right: -4.689 ± 0.029 $\chi^2/\text{NDF}: 56455.0/69$
 In: 6.977 ± 0.028 $\chi^2/\text{NDF}: 211545.5/55$
 Out: 6.730 ± 0.028 $\chi^2/\text{NDF}: 276739.5/61$
 All: 6.851 ± 0.020 $\chi^2/\text{NDF}: 488324.4/117$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.900 ± 0.052 $\chi^2/\text{NDF}: 4115.1/32$

Left Out: -1.338 ± 0.036 $\chi^2/\text{NDF}: 7943.1/24$

Right Out: -0.648 ± 0.050 $\chi^2/\text{NDF}: 4683.2/36$

Left In: -1.129 ± 0.034 $\chi^2/\text{NDF}: 6740.3/22$

Left: -1.228 ± 0.025 $\chi^2/\text{NDF}: 14701.0/47$

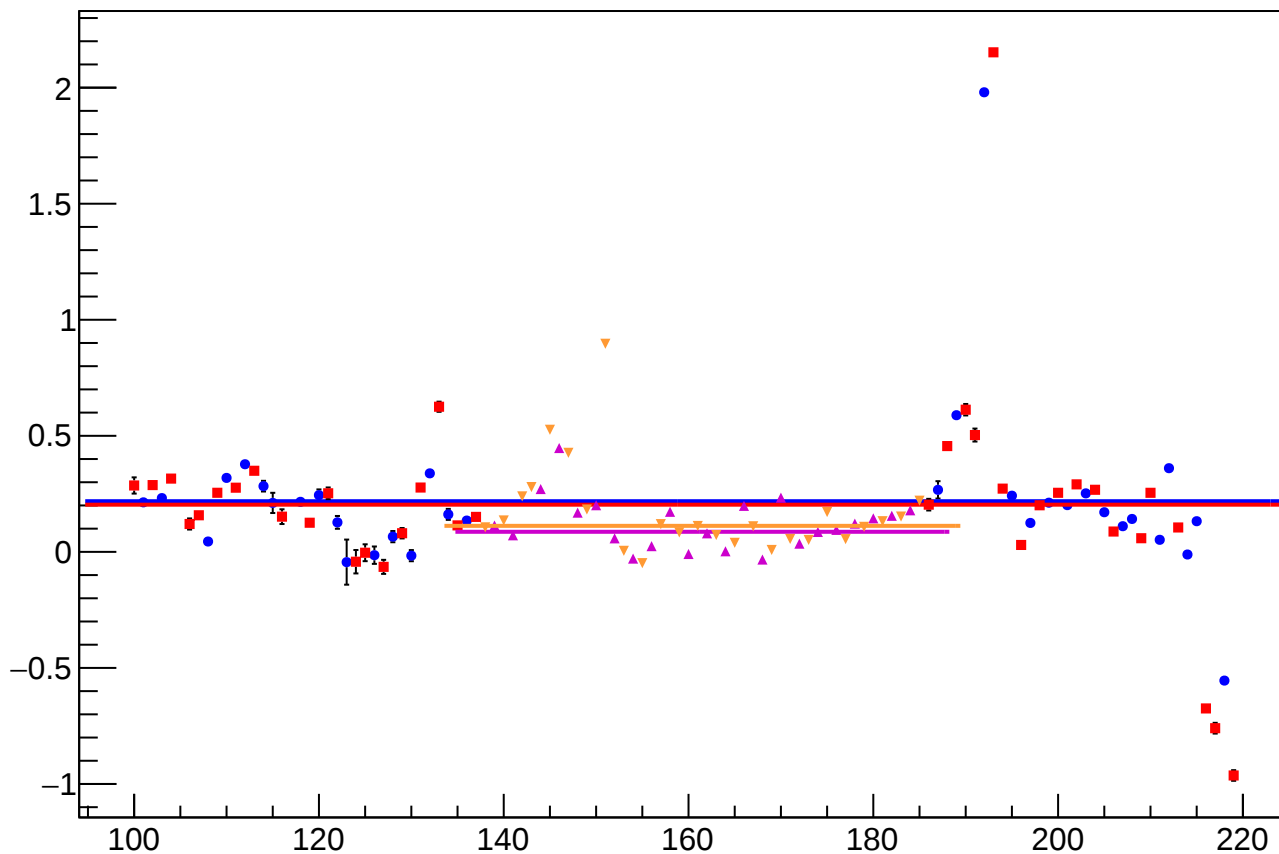
Right: -0.768 ± 0.036 $\chi^2/\text{NDF}: 8810.5/69$

In: -1.061 ± 0.029 $\chi^2/\text{NDF}: 10868.8/55$

Out: -1.102 ± 0.029 $\chi^2/\text{NDF}: 12752.3/61$

All: -1.081 ± 0.020 $\chi^2/\text{NDF}: 23622.1/117$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.218 $\pm$ 0.002 χ^2 /NDF: 13347.3/32

Left Out: 0.112 $\pm$ 0.002 χ^2 /NDF:4503.9/24

Right Out: 0.203 $\pm$ 0.002 χ^2 /NDF: 18310.7/36

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

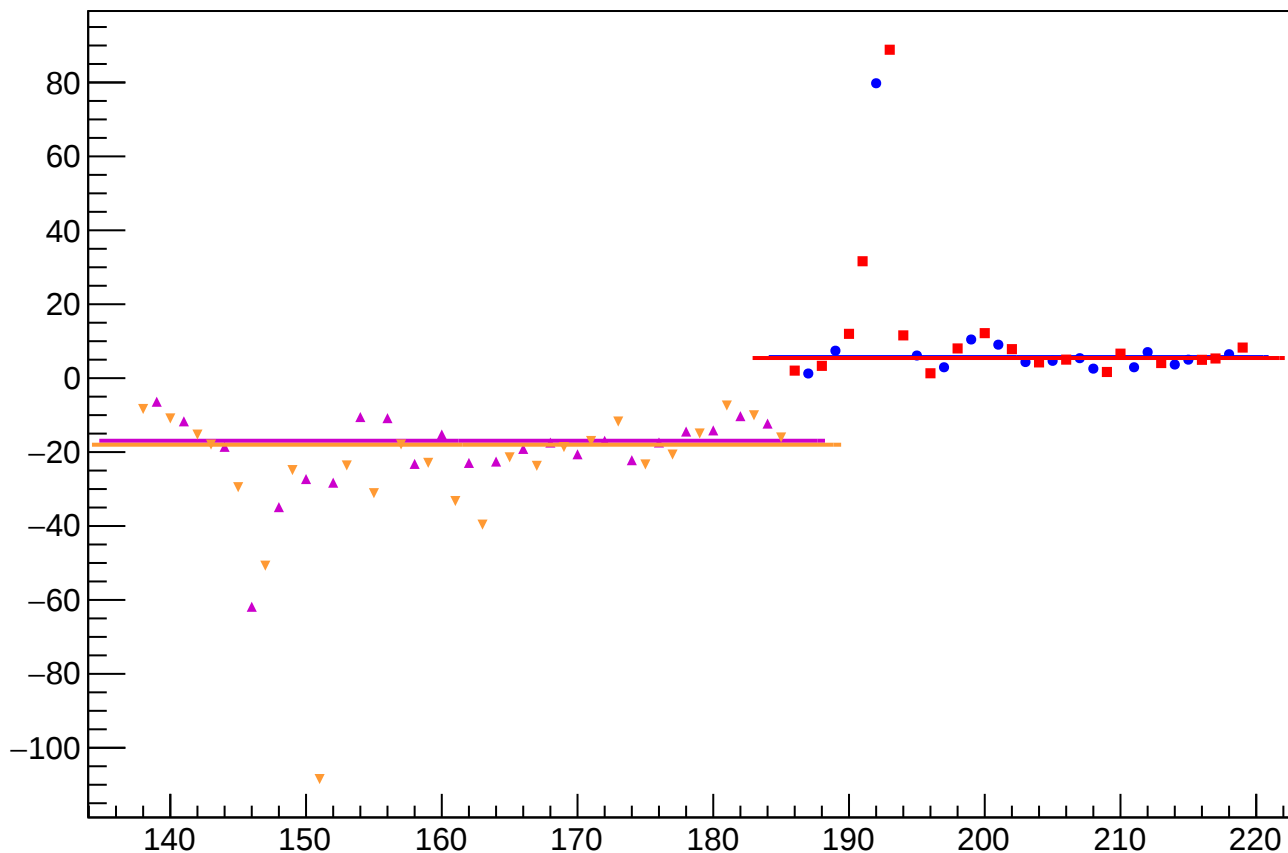
Right: 0.211 $\pm$ 0.002 χ^2 /NDF: 31679.0/69

In: 0.125 $\pm$ 0.001 χ^2 /NDF:19257.0/55

Out: 0.142 $\pm$ 0.001 χ^2 /NDF:23885.4/61

All: 0.133 $\pm$ 0.001 χ^2 /NDF: 43231.8/117

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.703 $\pm$ 0.047 χ^2 /NDF: 26702.2/15

Left Out: -18.005 $\pm$ 0.039 χ^2 /NDF: 88391.0/24

Right Out: 5.449 $\pm$ 0.045 χ^2 /NDF: 27470.4/17

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

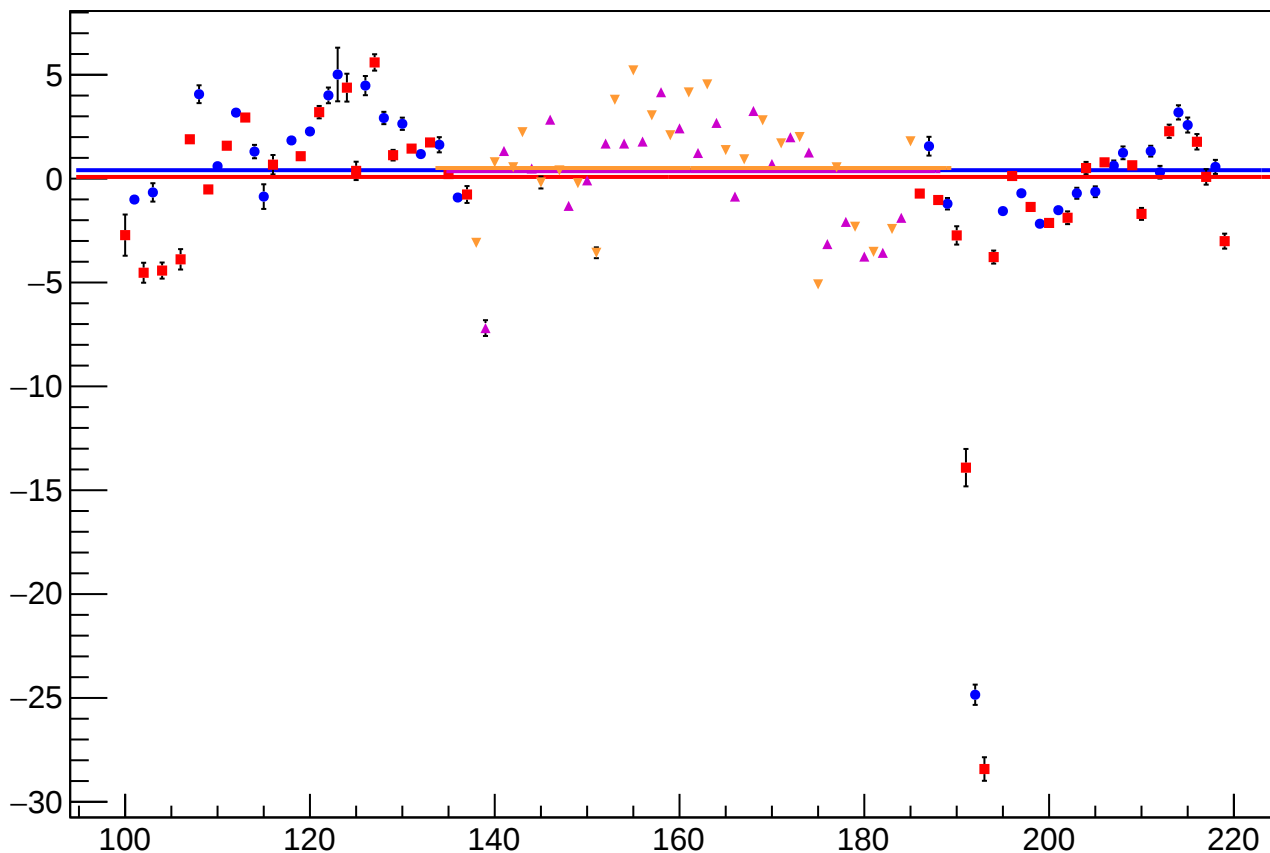
Right: 5.571 $\pm$ 0.032 χ^2 /NDF: 54188.0/33

In: -7.976 $\pm$ 0.029 χ^2 /NDF: 211926.9/38

Out: -8.026 $\pm$ 0.029 χ^2 /NDF: 272604.7/42

All: -8.001 $\pm$ 0.021 χ^2 /NDF: 484533.1/81

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.407 ± 0.045 $\chi^2/\text{NDF}: 4090.7/32$

Left Out: 0.511 ± 0.032 $\chi^2/\text{NDF}: 7070.4/24$

Right Out: 0.081 ± 0.043 $\chi^2/\text{NDF}: 4609.1/36$

Left In: 0.360 ± 0.031 $\chi^2/\text{NDF}: 6221.1/22$

Left: 0.432 ± 0.022 $\chi^2/\text{NDF}: 13303.2/47$

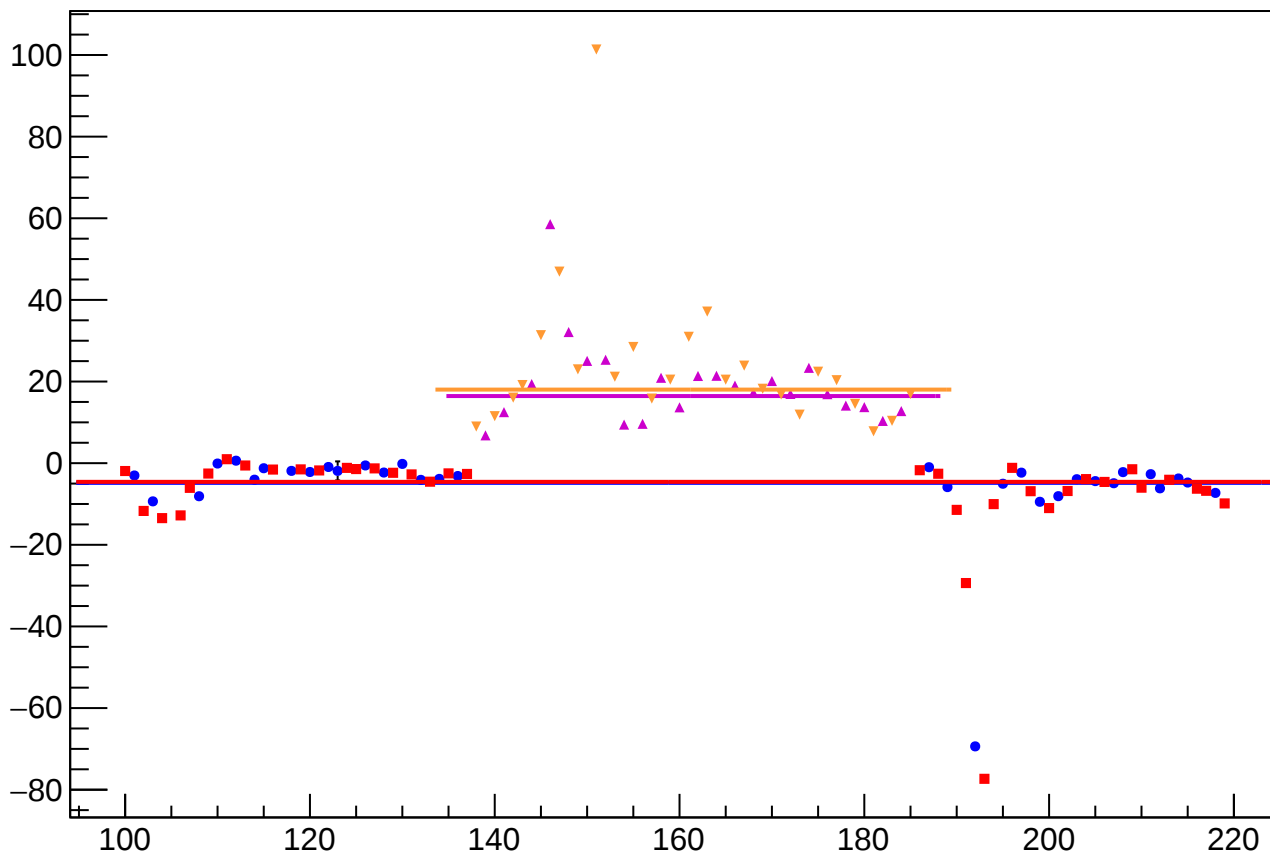
Right: 0.236 ± 0.031 $\chi^2/\text{NDF}: 8726.8/69$

In: 0.374 ± 0.025 $\chi^2/\text{NDF}: 10312.6/55$

Out: 0.358 ± 0.026 $\chi^2/\text{NDF}: 11743.5/61$

All: 0.366 ± 0.018 $\chi^2/\text{NDF}: 22056.2/117$

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.818 ± 0.042 $\chi^2/\text{NDF}: 27728.1/32$

Left Out: 18.027 ± 0.039 $\chi^2/\text{NDF}: 77718.1/24$

Right Out: -4.575 ± 0.039 $\chi^2/\text{NDF}: 29534.9/36$

Left In: 16.443 ± 0.038 $\chi^2/\text{NDF}: 40780.6/22$

Left: 17.207 ± 0.027 $\chi^2/\text{NDF}: 119360.0/47$

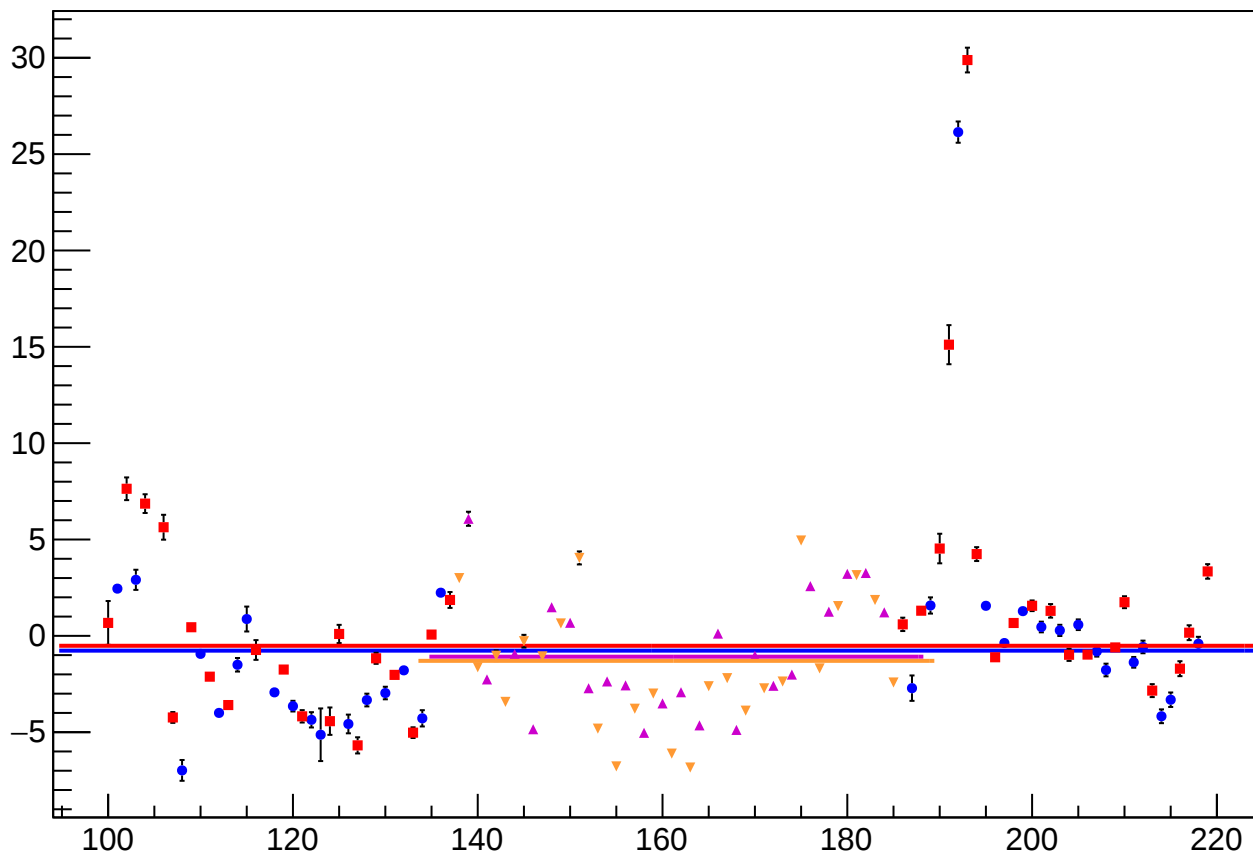
Right: -4.687 ± 0.028 $\chi^2/\text{NDF}: 57281.3/69$

In: 6.943 ± 0.028 $\chi^2/\text{NDF}: 212063.8/55$

Out: 6.679 ± 0.027 $\chi^2/\text{NDF}: 277442.7/61$

All: 6.809 ± 0.020 $\chi^2/\text{NDF}: 489552.1/117$

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

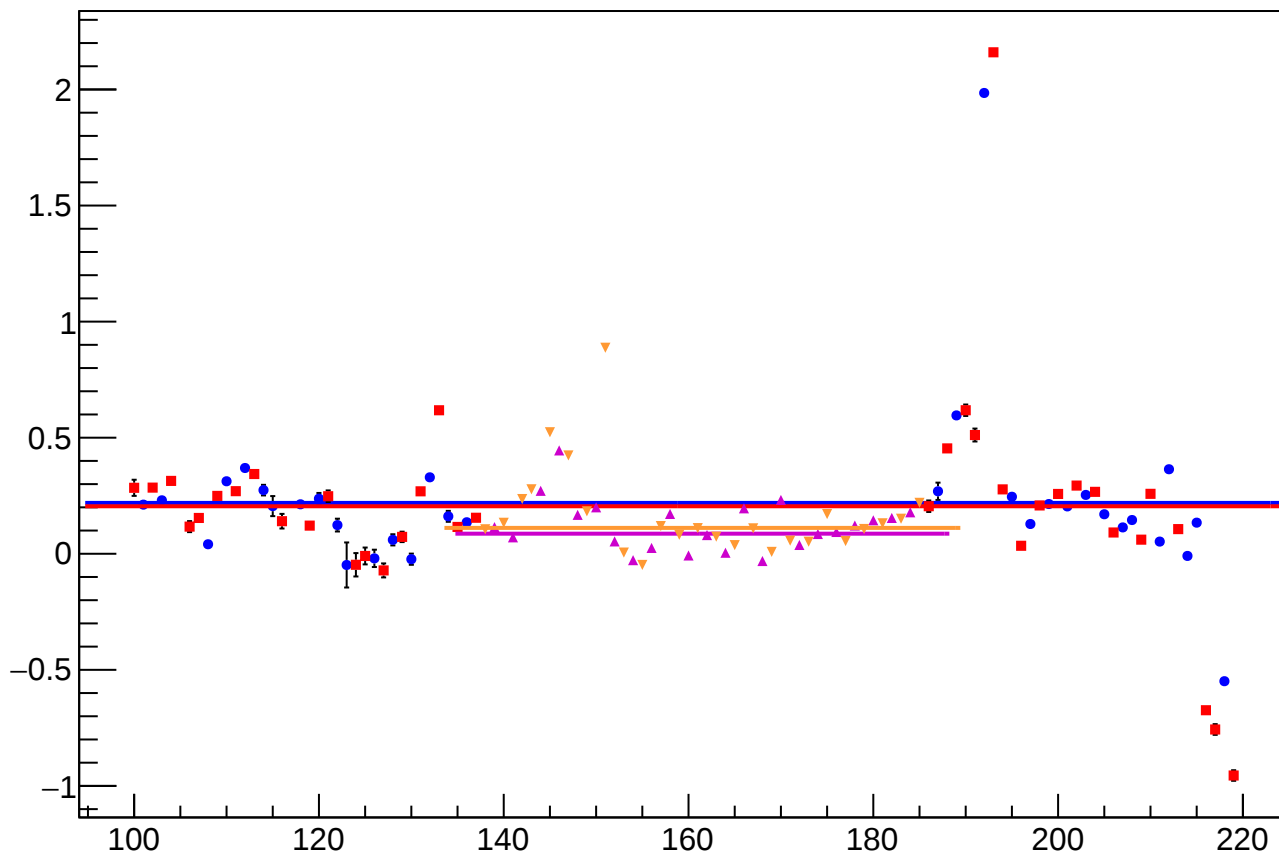


Right In: -0.768 ± 0.052 χ^2/NDF : 4187.2/32
 Left Out: -1.297 ± 0.036 χ^2/NDF : 7925.1/24
 Right Out: -0.515 ± 0.050 χ^2/NDF : 4844.7/36
 Left In: -1.082 ± 0.034 χ^2/NDF : 6724.1/22

Left: -1.184 ± 0.025 χ^2/NDF : 14668.4/47
 Right: -0.635 ± 0.036 χ^2/NDF : 9044.3/69
 In: -0.988 ± 0.028 χ^2/NDF : 10936.9/55
 Out: -1.030 ± 0.029 χ^2/NDF : 12933.9/61

All: -1.009 ± 0.020 χ^2/NDF : 23871.8/117

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.219 $\pm$ 0.002 χ^2 /NDF: 13467.5/32

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4496.0/24

Right Out: 0.205 $\pm$ 0.002 χ^2 /NDF: 18459.9/36

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

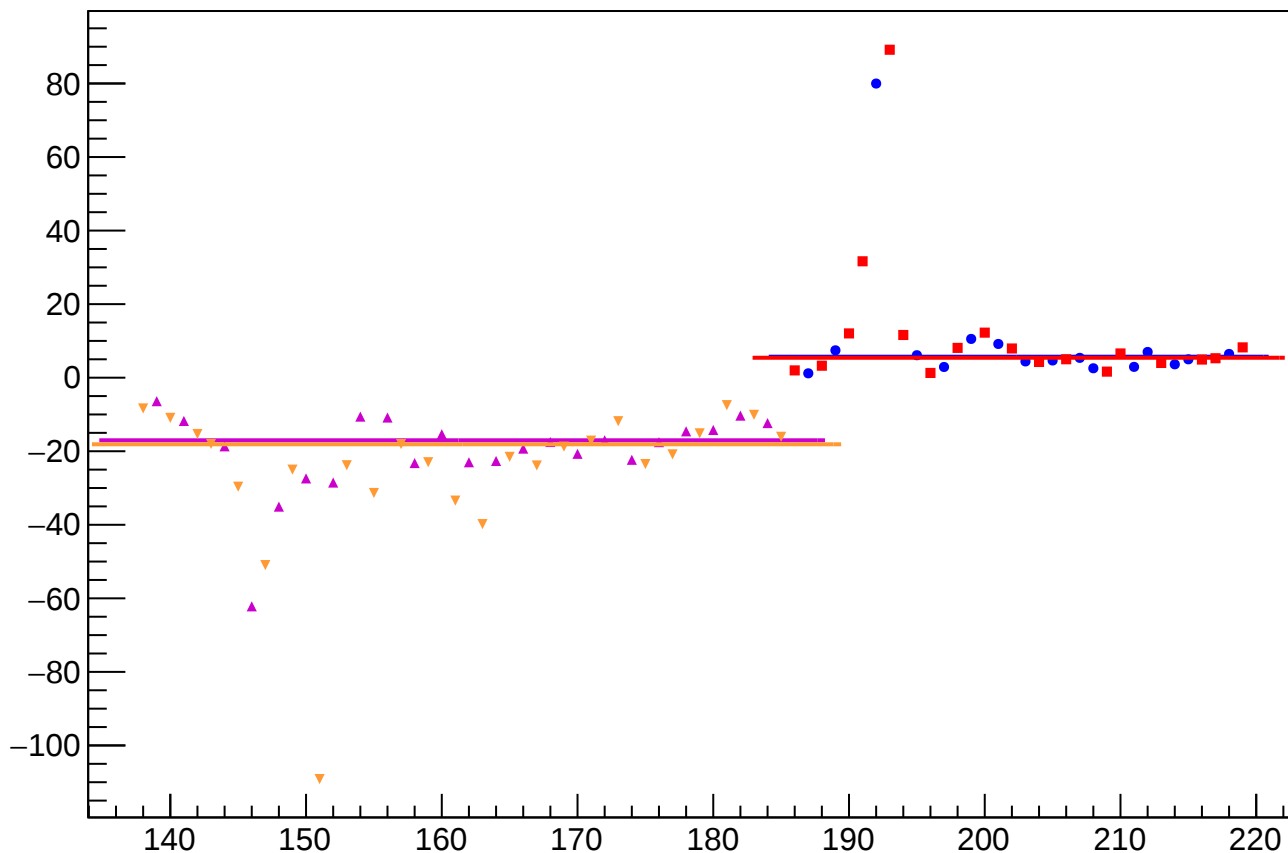
Right: 0.212 $\pm$ 0.002 χ^2 /NDF: 31947.4/69

In: 0.125 $\pm$ 0.001 χ^2 /NDF:19398.0/55

Out: 0.142 $\pm$ 0.001 χ^2 /NDF:24084.9/61

All: 0.133 $\pm$ 0.001 χ^2 /NDF: 43570.4/117

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.704 ± 0.047 χ^2/NDF : 26696.3/15

Left Out: -18.112 ± 0.039 χ^2/NDF : 88529.7/24

Right Out: 5.423 ± 0.045 χ^2/NDF : 27487.5/17

Left In: -17.024 ± 0.038 χ^2/NDF : 44141.8/22

Left: -17.557 ± 0.027 χ^2/NDF : 133072.9/47

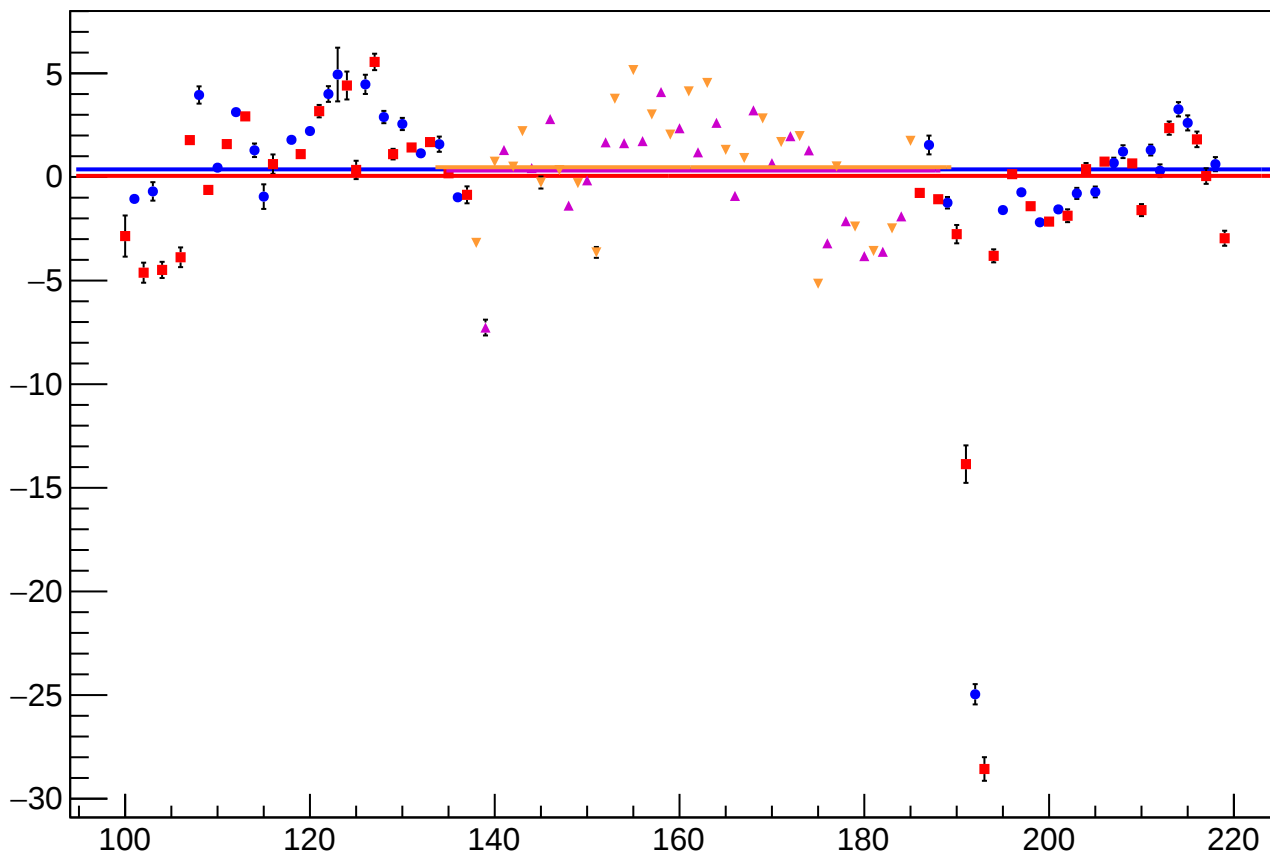
Right: 5.557 ± 0.033 χ^2/NDF : 54202.3/33

In: -8.062 ± 0.030 χ^2/NDF : 211523.6/38

Out: -8.107 ± 0.029 χ^2/NDF : 272377.8/42

All: -8.085 ± 0.021 χ^2/NDF : 483902.6/81

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.366 $\pm$ 0.046 χ^2 /NDF: 4086.3/32

Left Out: 0.469 $\pm$ 0.032 χ^2 /NDF:7093.0/24

Right Out: 0.052 $\pm$ 0.043 χ^2 /NDF: 4597.2/36

Left In: 0.311 $\pm$ 0.031 χ^2 /NDF:6183.1/22

Left: 0.386 $\pm$ 0.022 χ^2 /NDF: 13288.8/47

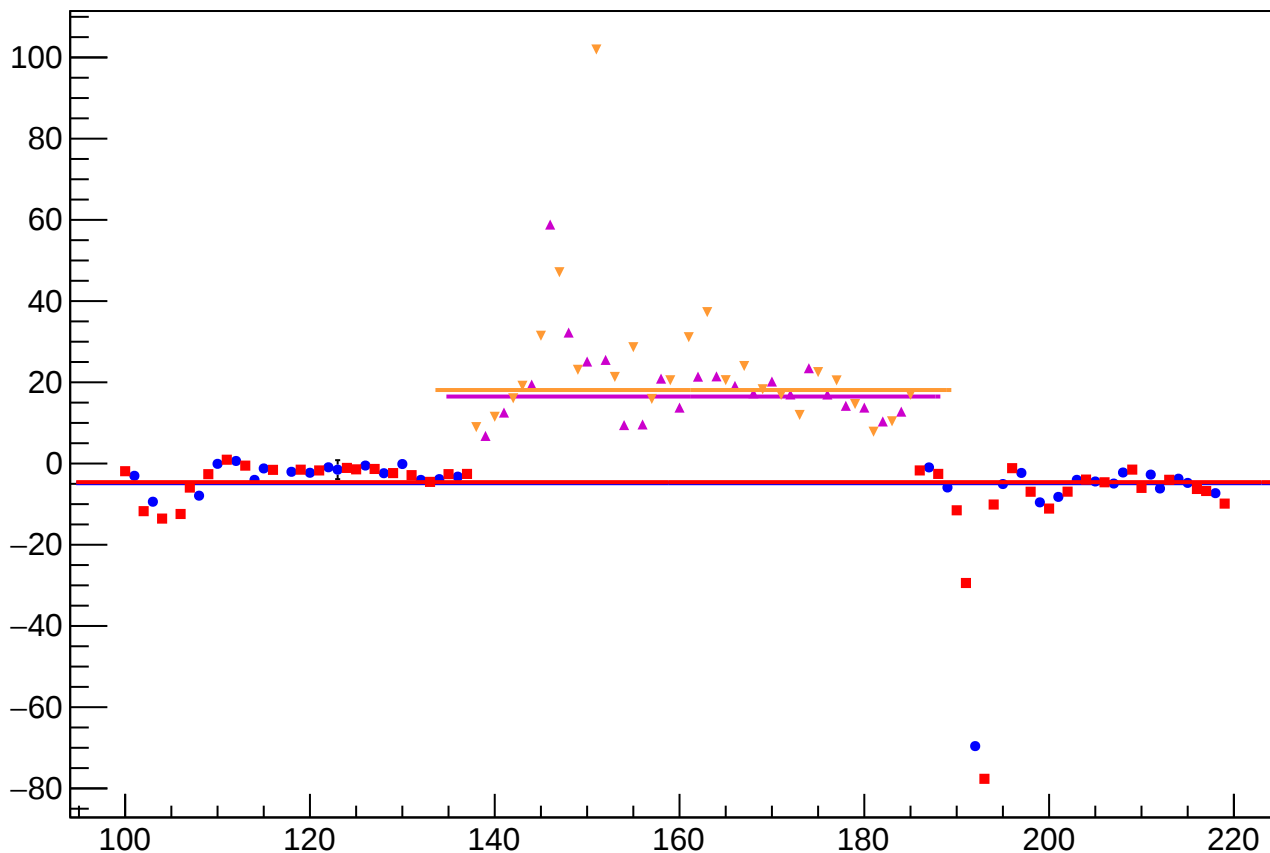
Right: 0.200 $\pm$ 0.031 χ^2 /NDF: 8708.3/69

In: 0.328 $\pm$ 0.025 χ^2 /NDF:10270.4/55

Out: 0.320 $\pm$ 0.026 χ^2 /NDF:11749.9/61

All: 0.324 $\pm$ 0.018 χ^2 /NDF: 22020.3/117

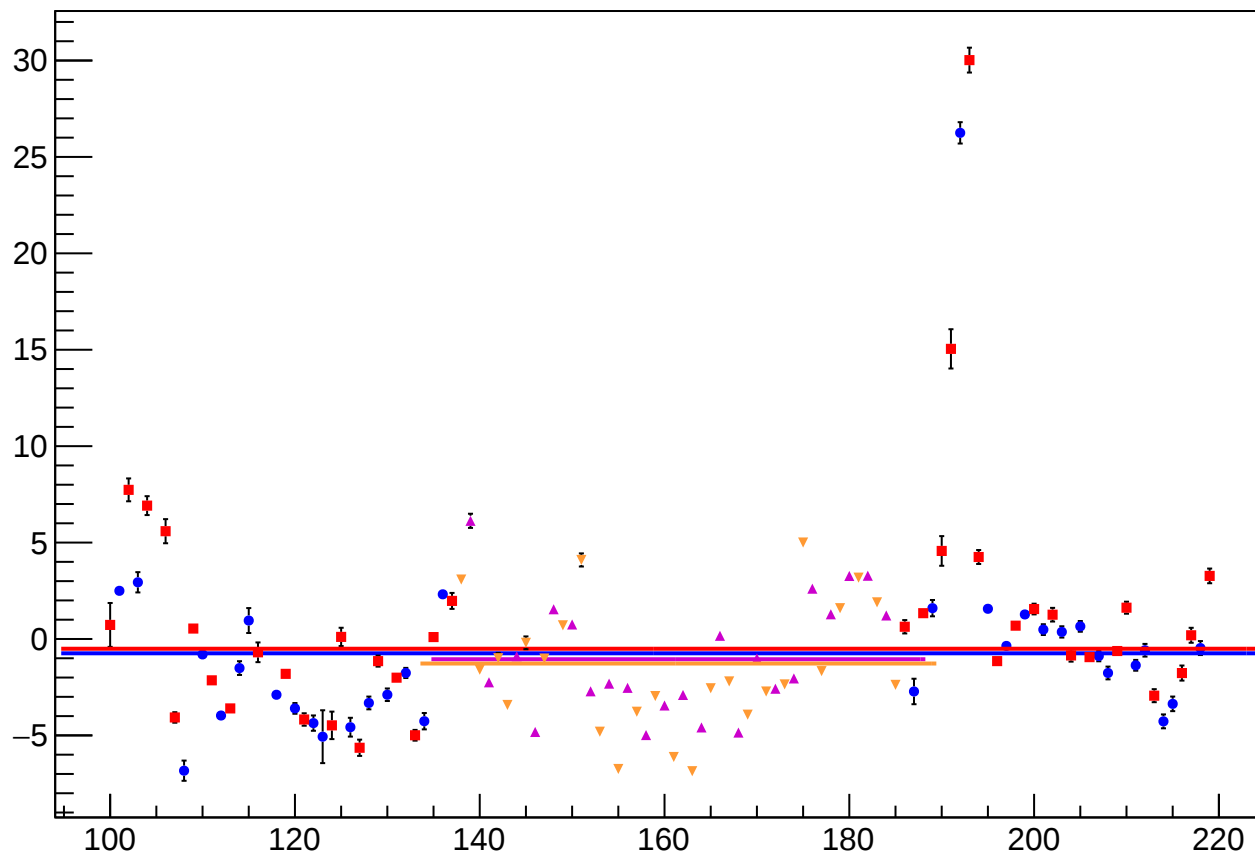
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.847 ± 0.042 $\chi^2/\text{NDF}: 27718.5/32$
 Left Out: 18.101 ± 0.039 $\chi^2/\text{NDF}: 77839.7/24$
 Right Out: -4.581 ± 0.039 $\chi^2/\text{NDF}: 29531.4/36$
 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: -4.704 ± 0.029 $\chi^2/\text{NDF}: 57271.4/69$
 In: 6.989 ± 0.028 $\chi^2/\text{NDF}: 211693.2/55$
 Out: 6.714 ± 0.028 $\chi^2/\text{NDF}: 277291.0/61$
 All: 6.849 ± 0.020 $\chi^2/\text{NDF}: 489033.3/117$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

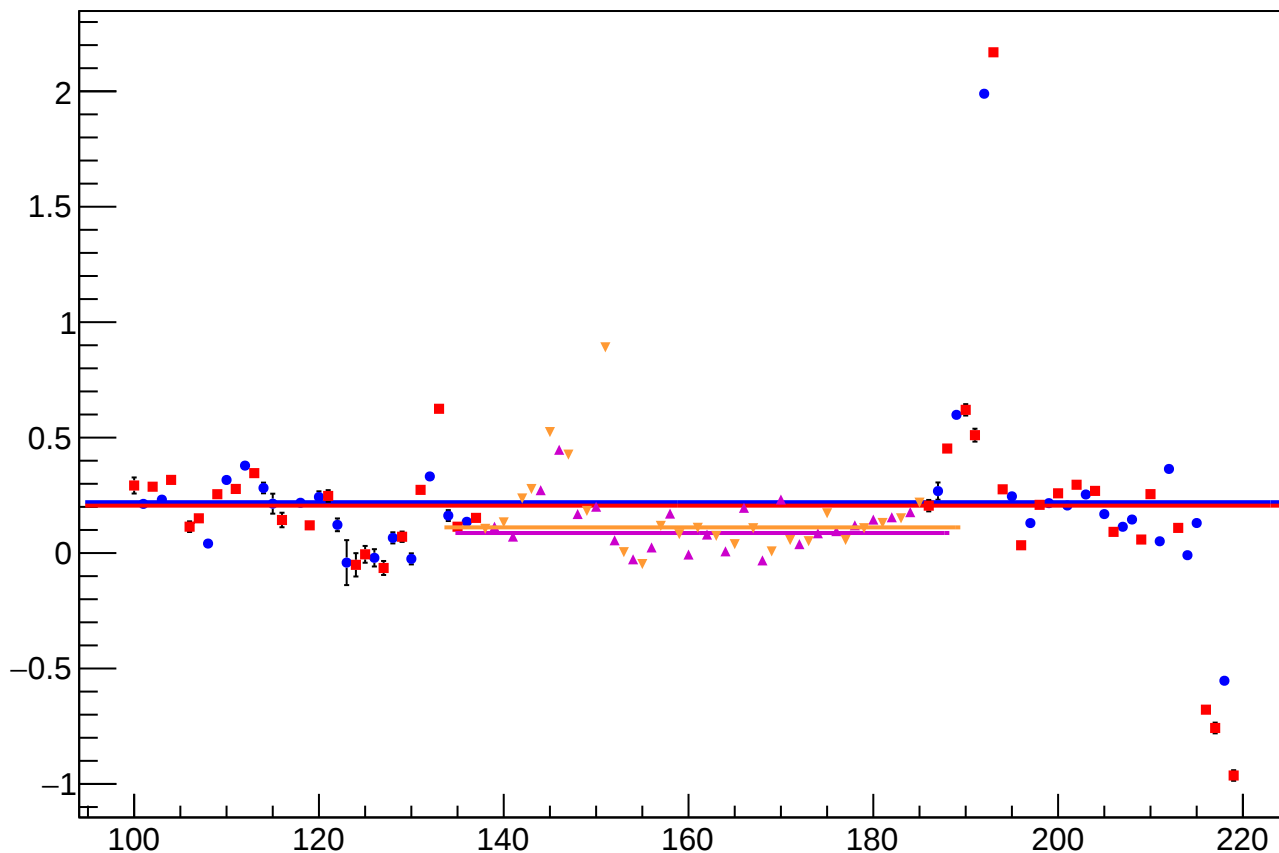


Right In: -0.742 ± 0.052 χ^2/NDF : 4187.1/32
 Left Out: -1.273 ± 0.036 χ^2/NDF : 7951.6/24
 Right Out: -0.506 ± 0.050 χ^2/NDF : 4833.3/36
 Left In: -1.050 ± 0.034 χ^2/NDF : 6673.4/22

Left: -1.156 ± 0.025 χ^2/NDF : 14645.3/47
 Right: -0.618 ± 0.036 χ^2/NDF : 9031.1/69
 In: -0.959 ± 0.029 χ^2/NDF : 10884.8/55
 Out: -1.012 ± 0.029 χ^2/NDF : 12941.2/61

All: -0.985 ± 0.020 χ^2/NDF : 23827.7/117

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.220 $\pm$ 0.002 χ^2 /NDF: 13461.2/32

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:4474.5/24

Right Out: 0.205 $\pm$ 0.002 χ^2 /NDF: 18455.5/36

Left In: 0.087 $\pm$ 0.001 χ^2 /NDF:3598.5/22

Left: 0.098 $\pm$ 0.001 χ^2 /NDF: 8197.1/47

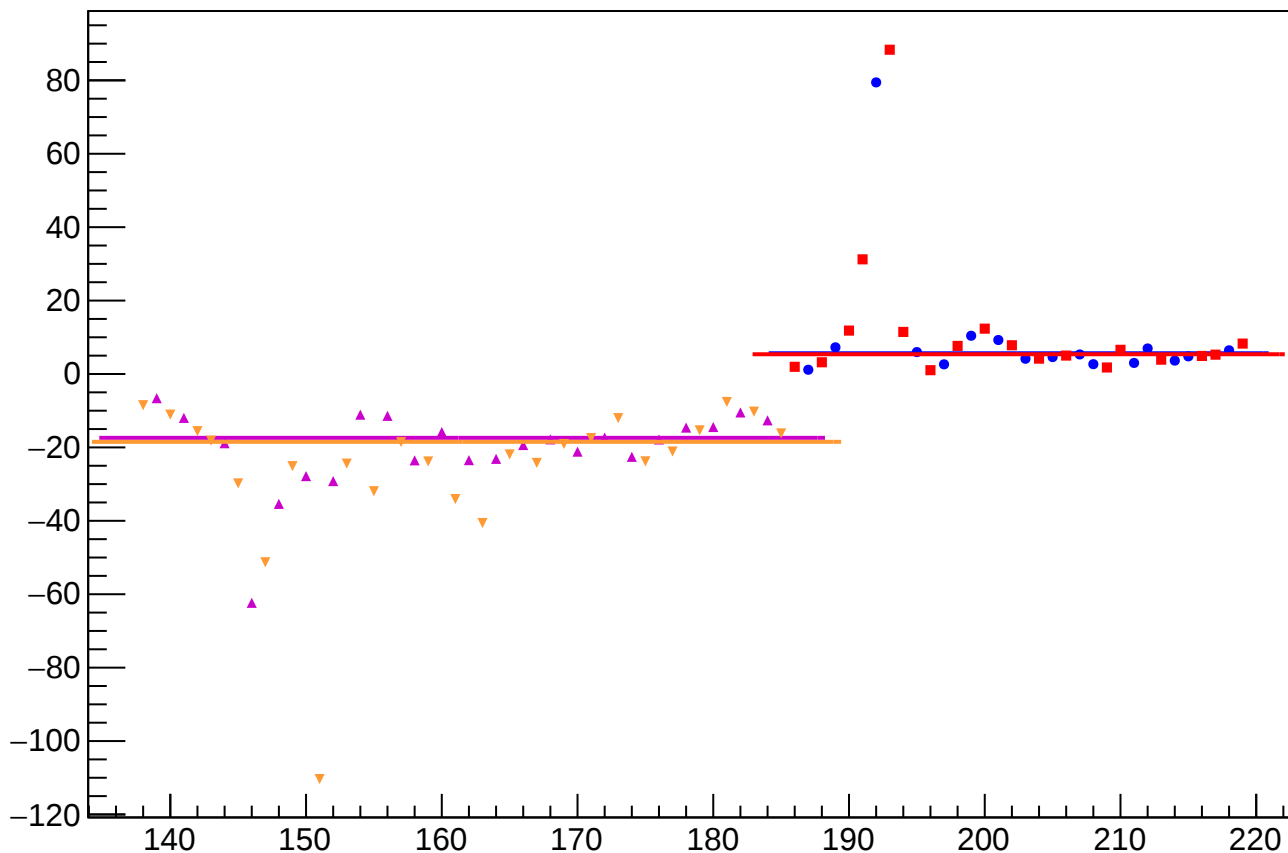
Right: 0.213 $\pm$ 0.002 χ^2 /NDF: 31937.9/69

In: 0.126 $\pm$ 0.001 χ^2 /NDF:19371.1/55

Out: 0.142 $\pm$ 0.001 χ^2 /NDF:24071.8/61

All: 0.134 $\pm$ 0.001 χ^2 /NDF: 43526.2/117

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.645 ± 0.047 χ^2/NDF : 26219.9/15

Left Out: -18.479 ± 0.040 χ^2/NDF : 87883.4/24

Right Out: 5.379 ± 0.045 χ^2/NDF : 26914.2/17

Left In: -17.393 ± 0.039 χ^2/NDF : 43178.9/22

Left: -17.926 ± 0.028 χ^2/NDF : 131443.9/47

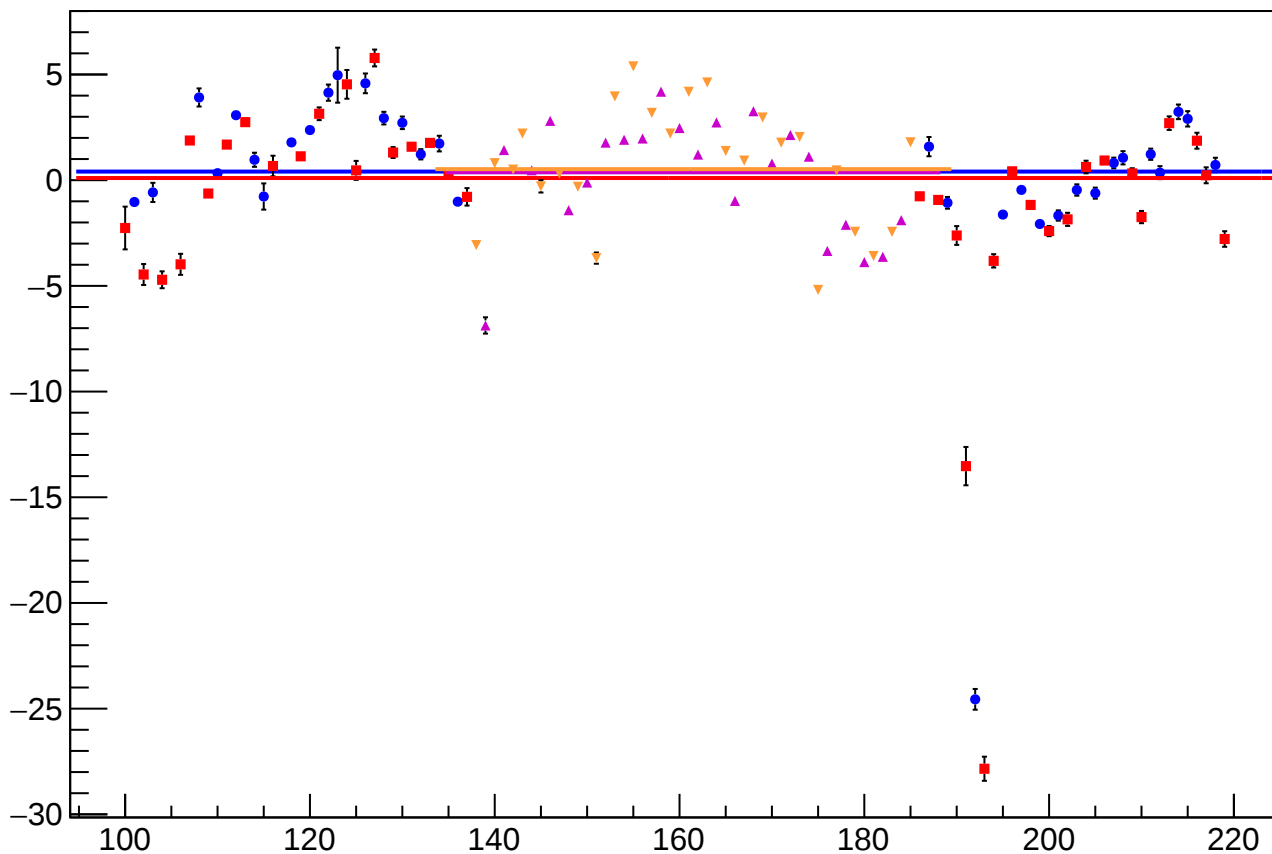
Right: 5.506 ± 0.033 χ^2/NDF : 53150.6/33

In: -8.102 ± 0.030 χ^2/NDF : 210422.5/38

Out: -8.125 ± 0.030 χ^2/NDF : 271526.8/42

All: -8.114 ± 0.021 χ^2/NDF : 481949.6/81

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.407 $\pm$ 0.046 χ^2 /NDF: 3954.9/32

Left Out: 0.522 $\pm$ 0.033 χ^2 /NDF:7055.1/24

Right Out: 0.102 $\pm$ 0.044 χ^2 /NDF: 4450.0/36

Left In: 0.371 $\pm$ 0.031 χ^2 /NDF:6217.4/22

Left: 0.443 $\pm$ 0.023 χ^2 /NDF: 13283.4/47

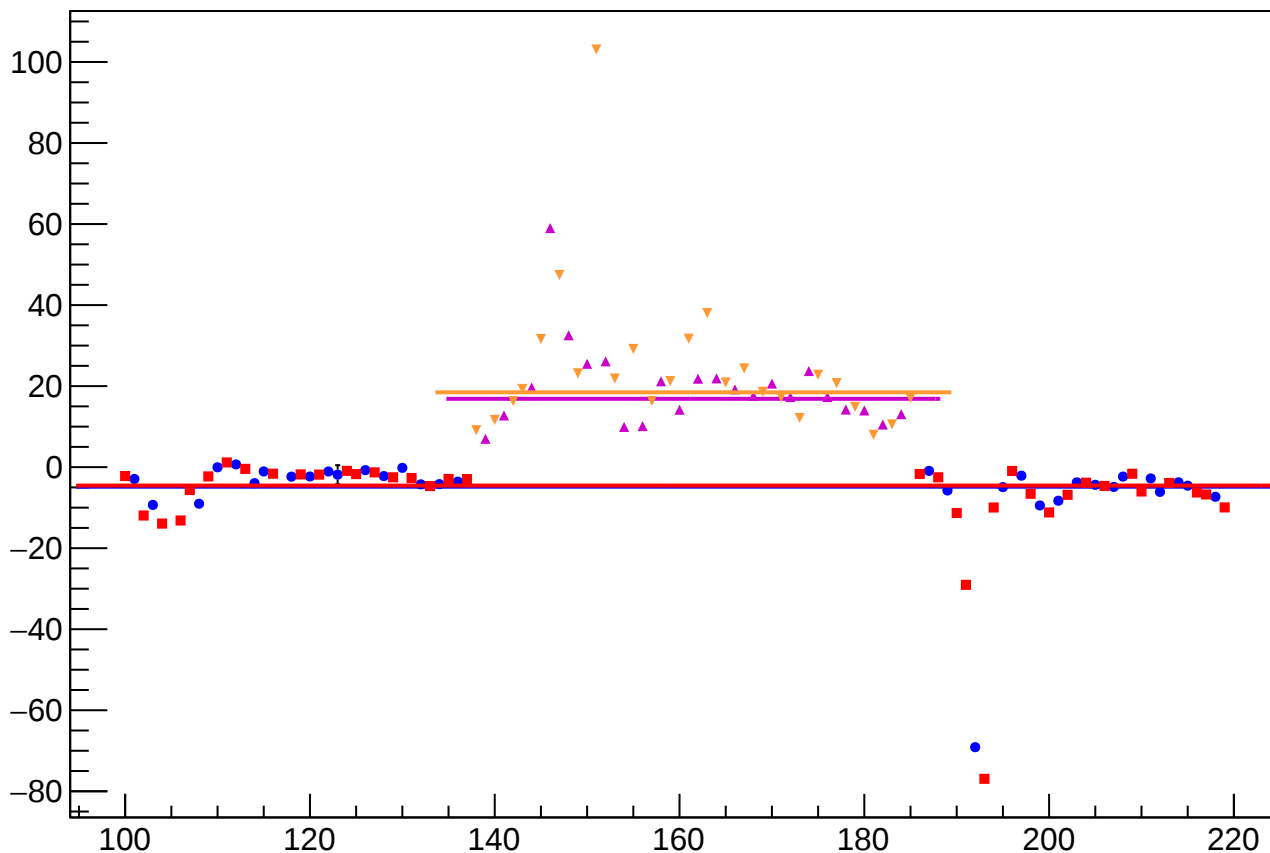
Right: 0.246 $\pm$ 0.032 χ^2 /NDF: 8427.8/69

In: 0.383 $\pm$ 0.026 χ^2 /NDF:10172.7/55

Out: 0.370 $\pm$ 0.026 χ^2 /NDF:11563.6/61

All: 0.376 $\pm$ 0.018 χ^2 /NDF: 21736.4/117

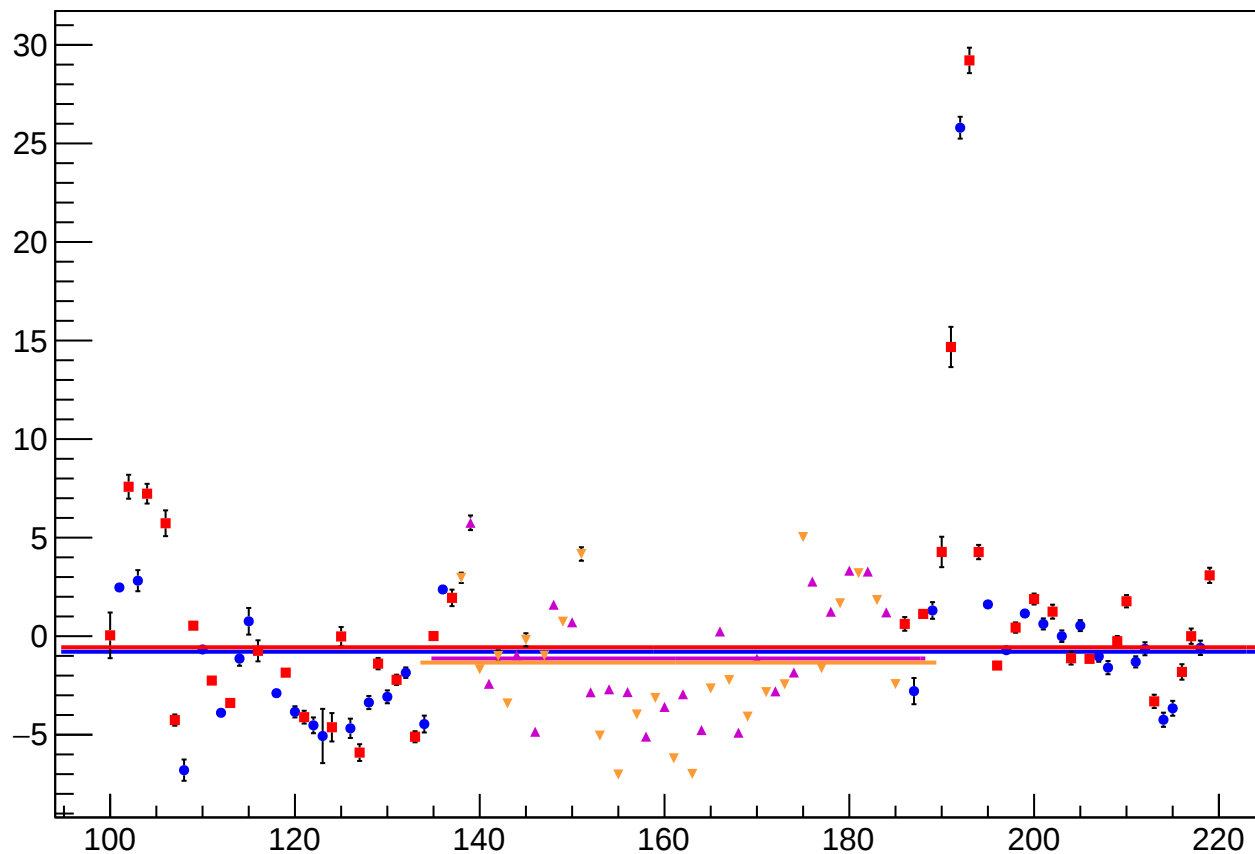
reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.823 ± 0.042 $\chi^2/\text{NDF}: 27210.0/32$
 Left Out: 18.467 ± 0.040 $\chi^2/\text{NDF}: 77226.7/24$
 Right Out: -4.547 ± 0.039 $\chi^2/\text{NDF}: 28983.1/36$
 Left In: 16.867 ± 0.039 $\chi^2/\text{NDF}: 39779.0/22$

Left: 17.640 ± 0.028 $\chi^2/\text{NDF}: 117837.8/47$
 Right: -4.674 ± 0.029 $\chi^2/\text{NDF}: 56216.0/69$
 In: 7.024 ± 0.029 $\chi^2/\text{NDF}: 210529.8/55$
 Out: 6.732 ± 0.028 $\chi^2/\text{NDF}: 275984.5/61$
 All: 6.875 ± 0.020 $\chi^2/\text{NDF}: 486567.8/117$

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

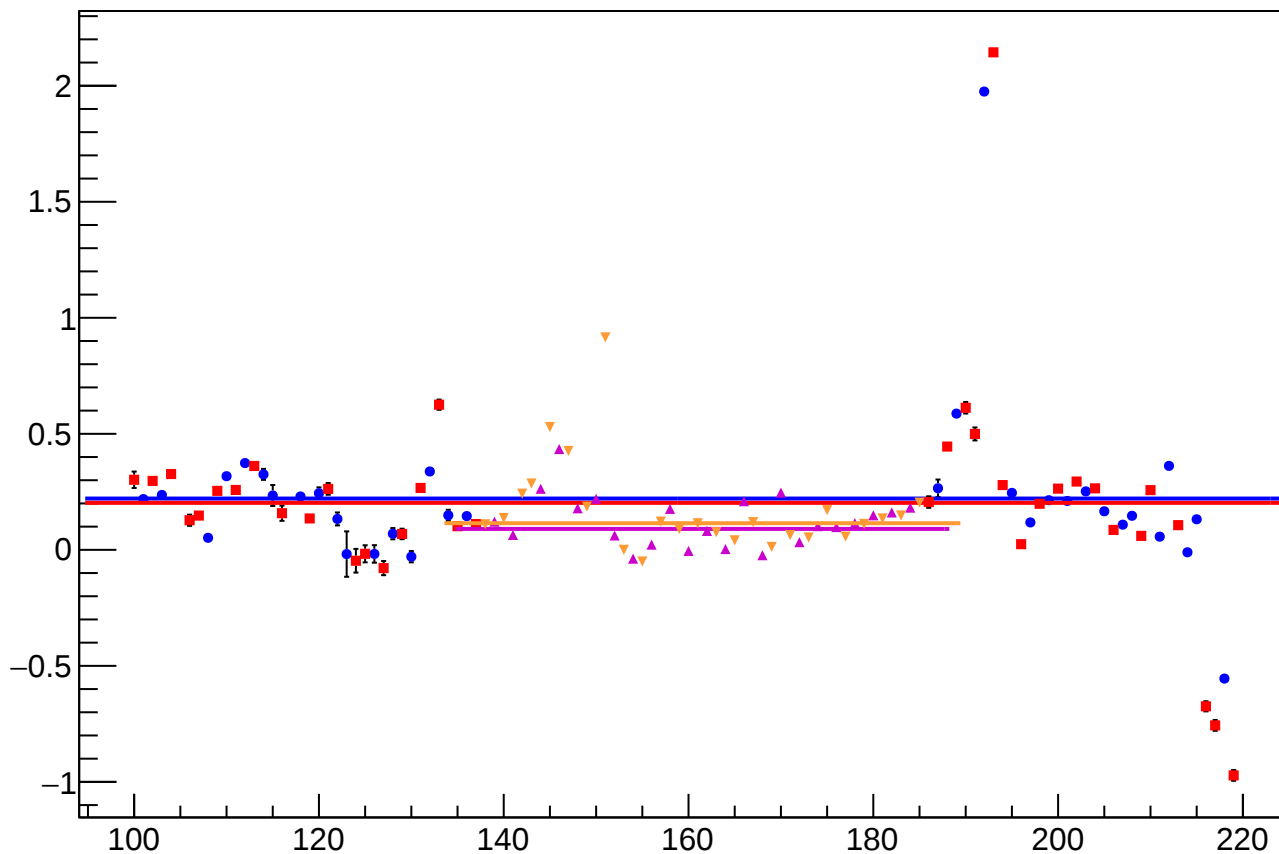


Right In: -0.789 ± 0.053 $\chi^2/\text{NDF}: 4071.7/32$
 Left Out: -1.340 ± 0.037 $\chi^2/\text{NDF}: 7907.4/24$
 Right Out: -0.563 ± 0.050 $\chi^2/\text{NDF}: 4694.8/36$
 Left In: -1.132 ± 0.035 $\chi^2/\text{NDF}: 6708.5/22$

Left: -1.231 ± 0.025 $\chi^2/\text{NDF}: 14632.9/47$
 Right: -0.671 ± 0.037 $\chi^2/\text{NDF}: 8776.0/69$
 In: -1.028 ± 0.029 $\chi^2/\text{NDF}: 10809.4/55$
 Out: -1.072 ± 0.030 $\chi^2/\text{NDF}: 12757.6/61$

All: -1.050 ± 0.021 $\chi^2/\text{NDF}: 23568.1/117$

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.221 $\pm$ 0.002 χ^2 /NDF: 13198.3/32

Left Out: 0.115 $\pm$ 0.002 χ^2 /NDF:4431.9/24

Right Out: 0.203 $\pm$ 0.002 χ^2 /NDF: 18199.5/36

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

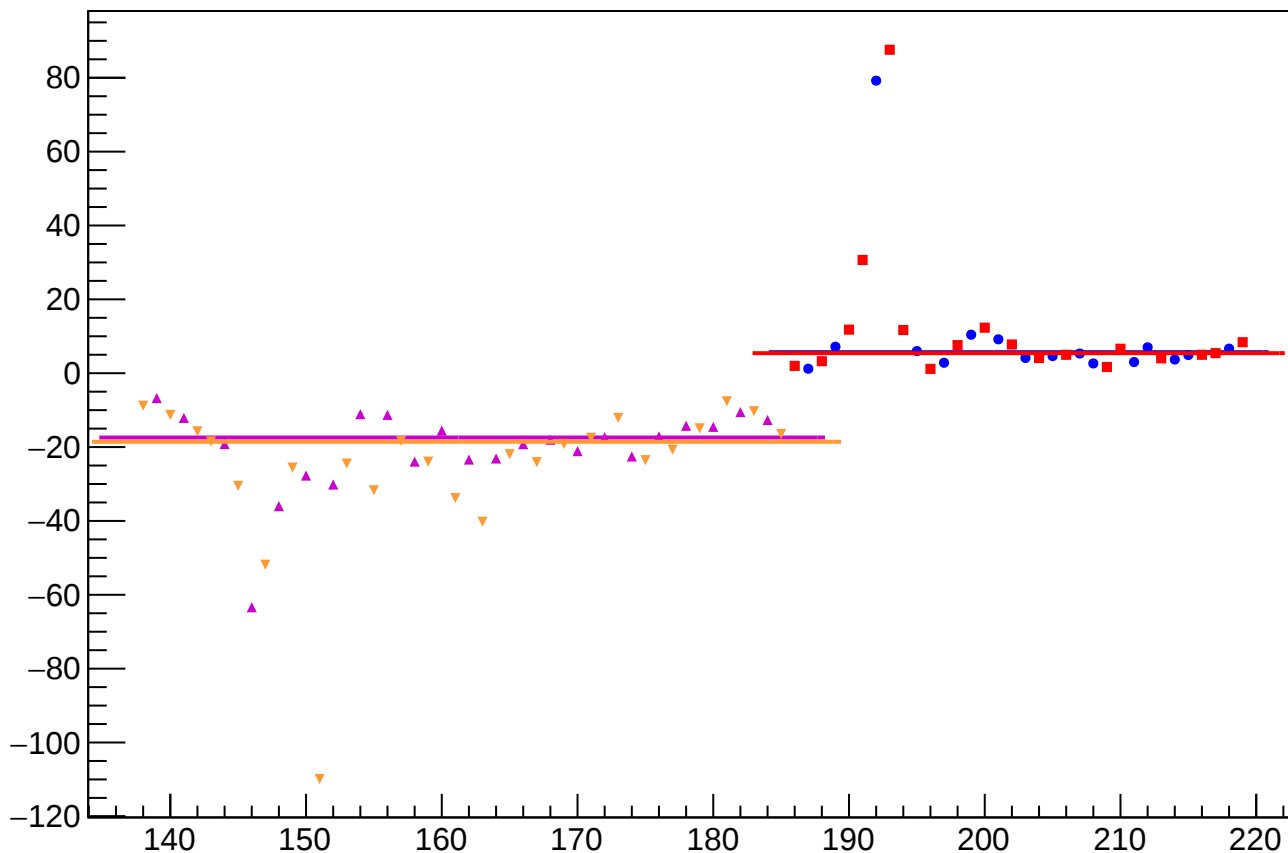
Right: 0.212 $\pm$ 0.002 χ^2 /NDF: 31429.4/69

In: 0.129 $\pm$ 0.001 χ^2 /NDF:19034.0/55

Out: 0.144 $\pm$ 0.001 χ^2 /NDF:23596.4/61

All: 0.136 $\pm$ 0.001 χ^2 /NDF: 42696.3/117

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 5.688 $\pm$ 0.048 χ^2 /NDF: 25728.1/15

Left Out: -18.566 $\pm$ 0.040 χ^2 /NDF: 86389.6/24

Right Out: 5.429 $\pm$ 0.046 χ^2 /NDF: 26287.2/17

Left In: -17.414 $\pm$ 0.039 χ^2 /NDF: 43504.1/22

Left: -17.979 $\pm$ 0.028 χ^2 /NDF: 130314.7/47

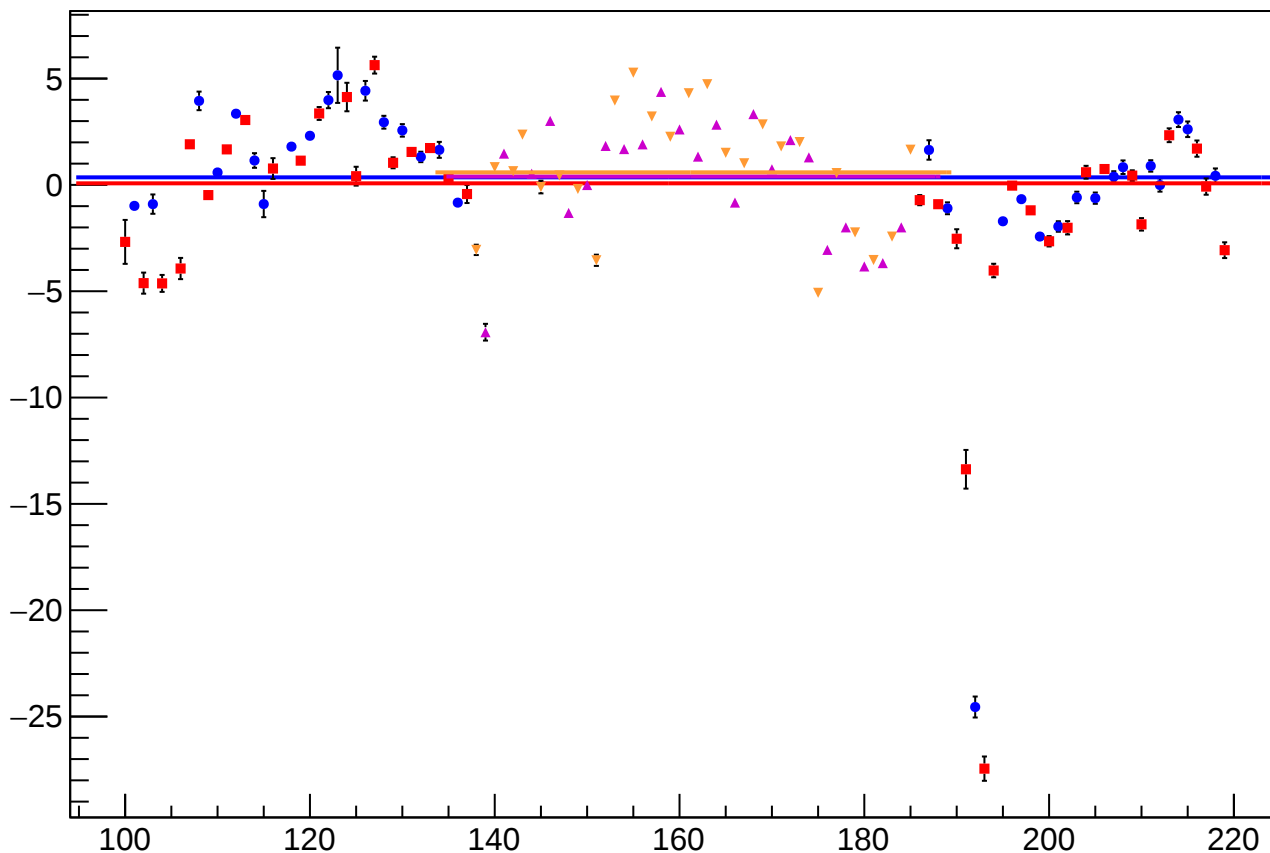
Right: 5.553 $\pm$ 0.033 χ^2 /NDF: 52030.5/33

In: -8.128 $\pm$ 0.030 χ^2 /NDF: 208117.2/38

Out: -8.181 $\pm$ 0.030 χ^2 /NDF: 267675.9/42

All: -8.154 $\pm$ 0.021 χ^2 /NDF: 475794.6/81

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.355 ± 0.047 $\chi^2/\text{NDF}: 3969.6/32$

Left Out: 0.591 ± 0.033 $\chi^2/\text{NDF}: 6796.5/24$

Right Out: 0.074 ± 0.044 $\chi^2/\text{NDF}: 4397.1/36$

Left In: 0.394 ± 0.032 $\chi^2/\text{NDF}: 6059.8/22$

Left: 0.488 ± 0.023 $\chi^2/\text{NDF}: 12874.6/47$

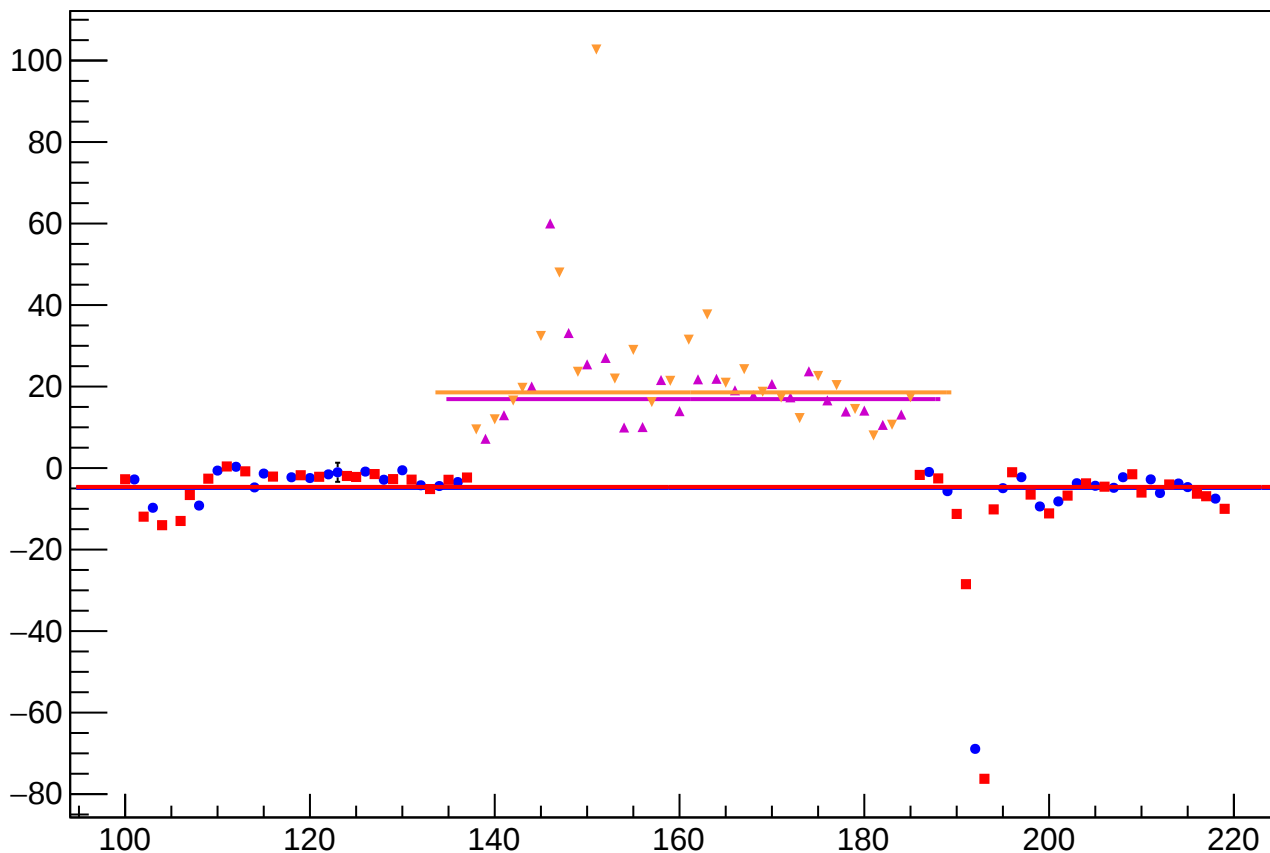
Right: 0.207 ± 0.032 $\chi^2/\text{NDF}: 8385.8/69$

In: 0.382 ± 0.026 $\chi^2/\text{NDF}: 10029.9/55$

Out: 0.405 ± 0.027 $\chi^2/\text{NDF}: 11280.4/61$

All: 0.393 ± 0.019 $\chi^2/\text{NDF}: 21310.7/117$

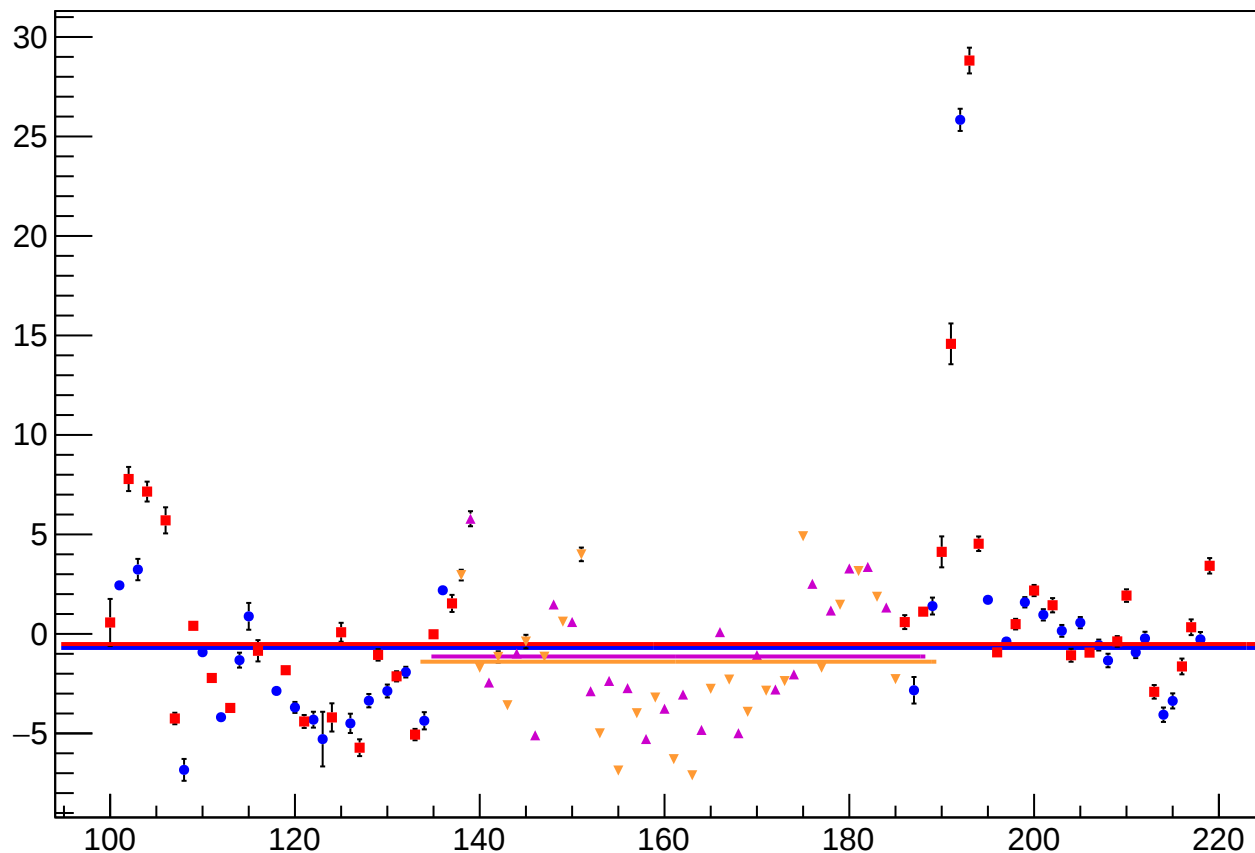
reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -4.871 ± 0.043 $\chi^2/\text{NDF}: 26557.5/32$
 Left Out: 18.573 ± 0.040 $\chi^2/\text{NDF}: 76029.9/24$
 Right Out: -4.621 ± 0.040 $\chi^2/\text{NDF}: 28114.2/36$
 Left In: 16.919 ± 0.039 $\chi^2/\text{NDF}: 40154.5/22$

Left: 17.718 ± 0.028 $\chi^2/\text{NDF}: 117057.3/47$
 Right: -4.737 ± 0.029 $\chi^2/\text{NDF}: 54690.0/69$
 In: 7.065 ± 0.029 $\chi^2/\text{NDF}: 208546.4/55$
 Out: 6.798 ± 0.028 $\chi^2/\text{NDF}: 272639.6/61$
 All: 6.929 ± 0.020 $\chi^2/\text{NDF}: 481230.1/117$

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.705 ± 0.054 $\chi^2/\text{NDF}: 4047.4/32$

Left Out: -1.396 ± 0.037 $\chi^2/\text{NDF}: 7651.5/24$

Right Out: -0.510 ± 0.051 $\chi^2/\text{NDF}: 4634.0/36$

Left In: -1.135 ± 0.035 $\chi^2/\text{NDF}: 6597.7/22$

Left: -1.259 ± 0.025 $\chi^2/\text{NDF}: 14275.6/47$

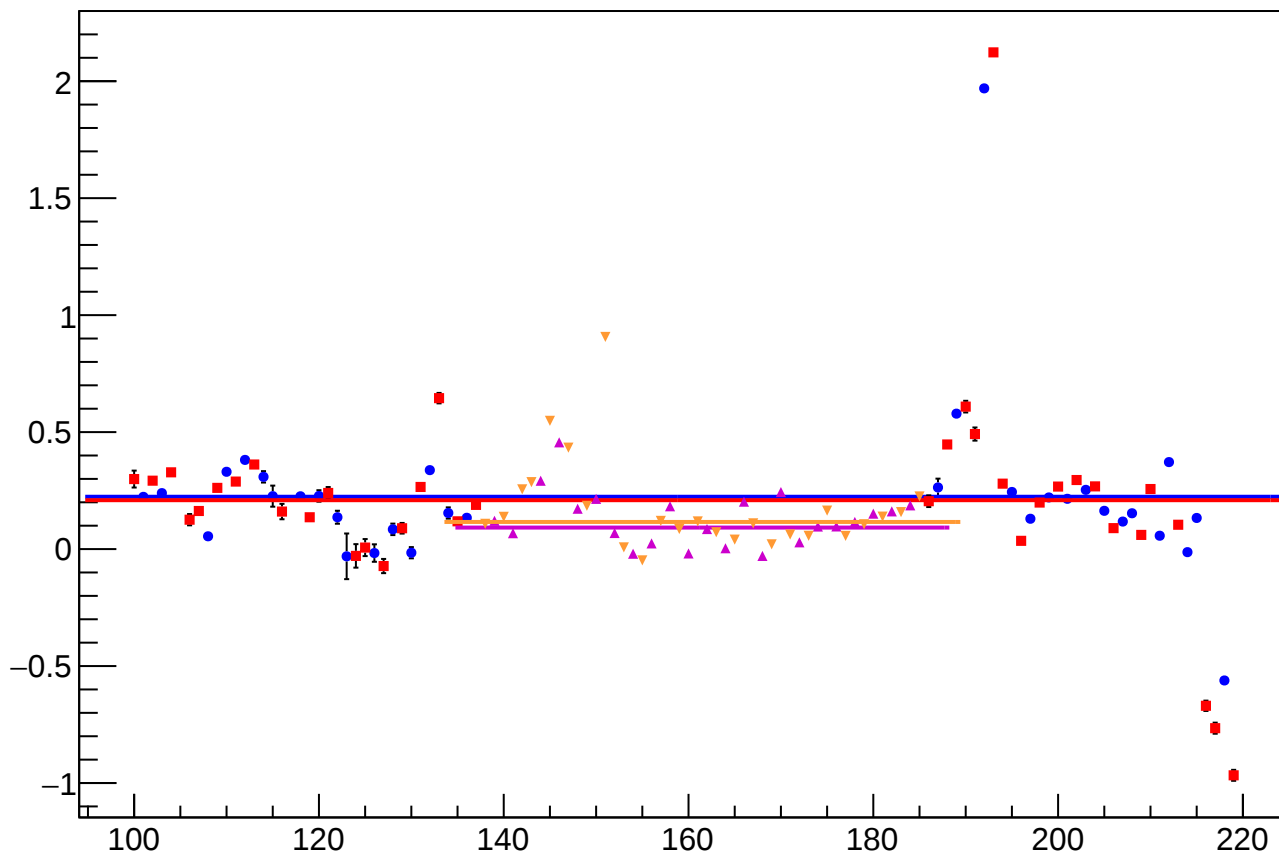
Right: -0.603 ± 0.037 $\chi^2/\text{NDF}: 8688.5/69$

In: -1.005 ± 0.029 $\chi^2/\text{NDF}: 10690.0/55$

Out: -1.093 ± 0.030 $\chi^2/\text{NDF}: 12483.1/61$

All: -1.048 ± 0.021 $\chi^2/\text{NDF}: 23177.4/117$

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.224 $\pm$ 0.002 χ^2 /NDF: 12939.5/32

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:4463.0/24

Right Out: 0.209 $\pm$ 0.002 χ^2 /NDF: 17640.3/36

Left In: 0.092 $\pm$ 0.002 χ^2 /NDF:3631.4/22

Left: 0.103 $\pm$ 0.001 χ^2 /NDF: 8207.3/47

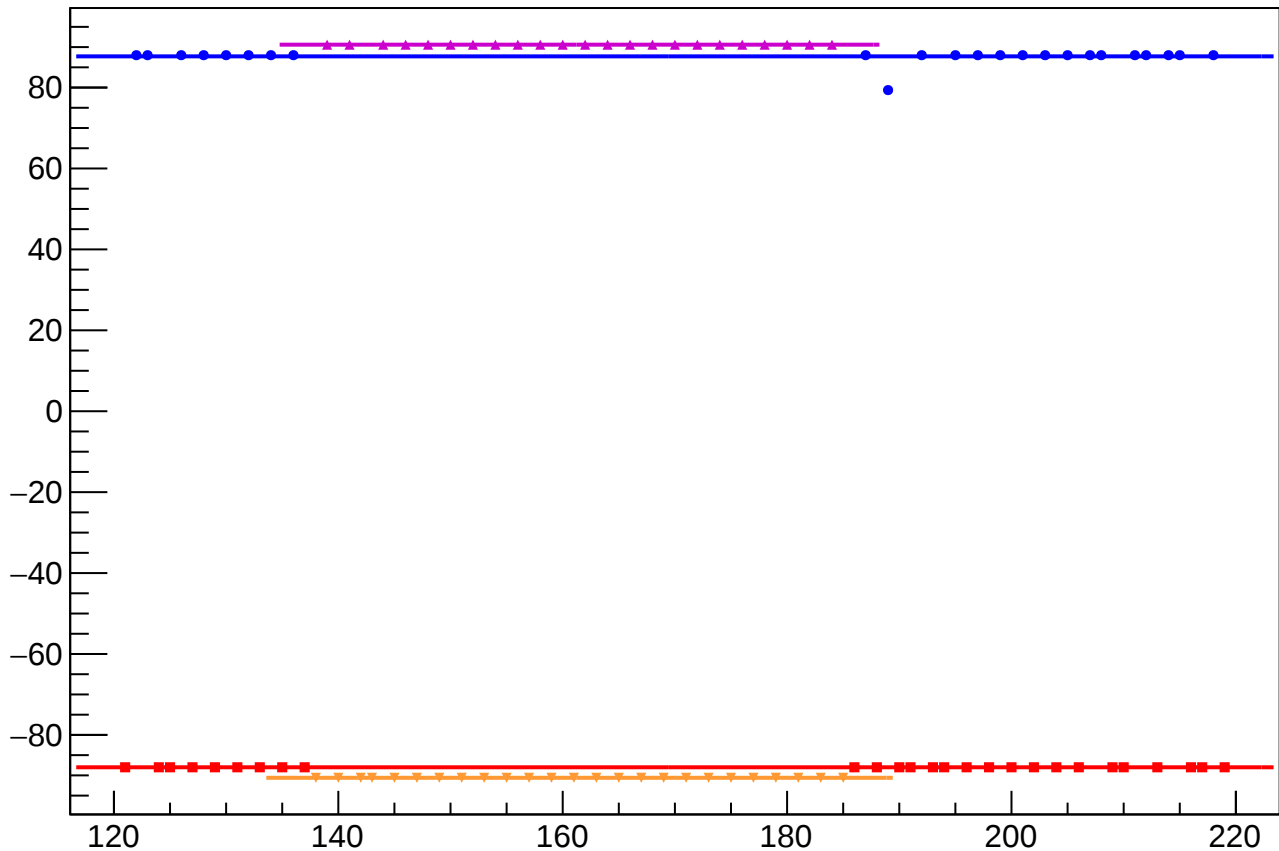
Right: 0.216 $\pm$ 0.002 χ^2 /NDF: 30599.2/69

In: 0.131 $\pm$ 0.001 χ^2 /NDF:18711.6/55

Out: 0.147 $\pm$ 0.001 χ^2 /NDF:23159.9/61

All: 0.139 $\pm$ 0.001 χ^2 /NDF: 41943.6/117

VWienAngle_mean vs Slug, Sign Corrected



Right In: 87.712+/-0.000

χ^2/NDF : 3669102942616927009374861573226496.0/23

Left Out: -90.599+/-0.000

χ^2/NDF : 6053403.0/24

Right Out: -88.001+/-0.000

χ^2/NDF : 1624472.9/26

Left In: 90.599+/-0.000

χ^2/NDF : 5932436.0/22

Left: -2.410+/-0.000 χ^2/NDF : 30521213250005045

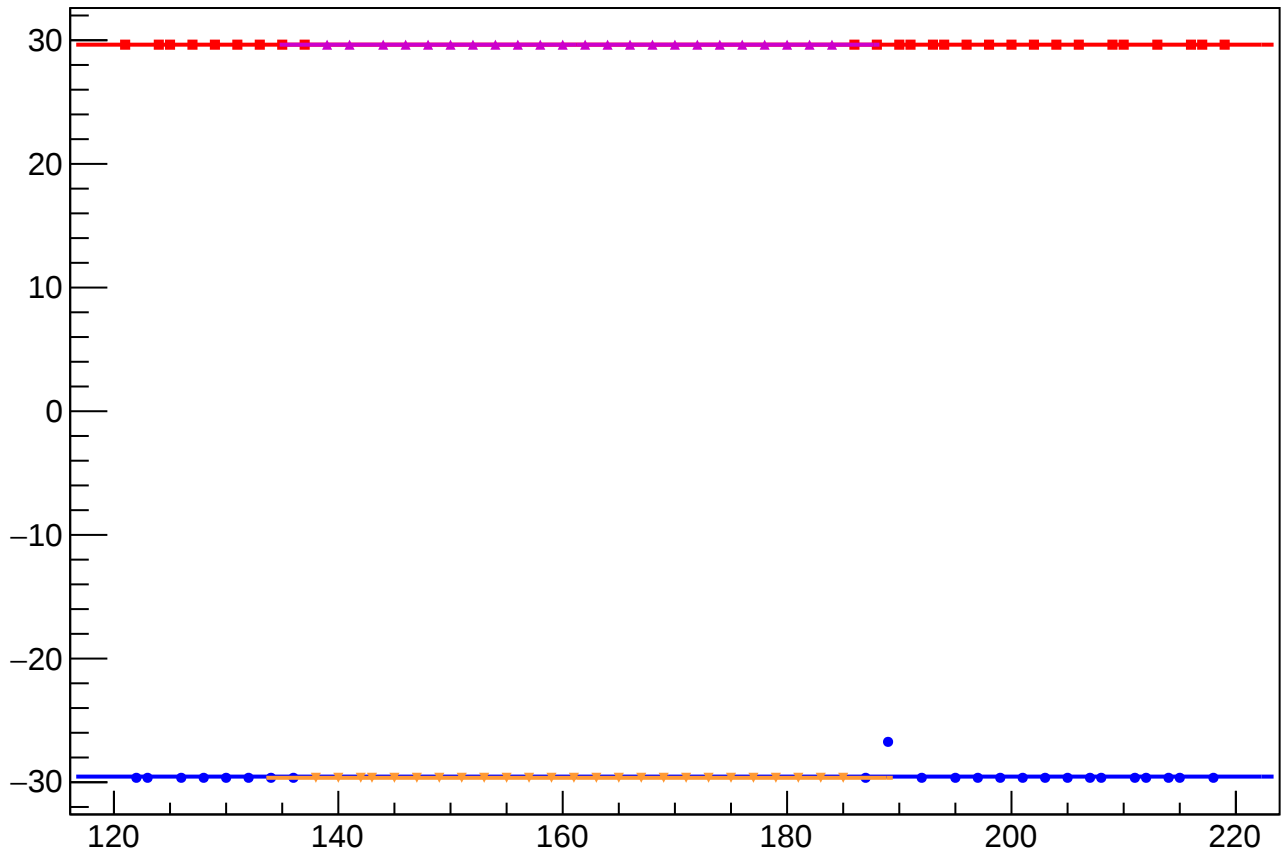
Right: -2.309+/-0.000 χ^2/NDF : 2411007874569195

In: 89.280+/-0.000 χ^2/NDF : 105682340691991880

Out: -89.414+/-0.000 χ^2/NDF : 5881263651454965

All: -2.364+/-0.000 χ^2/NDF : 5463130943369

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.543 +/- 0.000

Left Out: -29.641 +/- 0.000

Right Out: 29.641 +/- 0.000

Left In: 29.641 +/- 0.000

χ^2/NDF : 416259938374711473294676745781248.0/23

χ^2/NDF : 654199.2/24

χ^2/NDF : 1635920.8/26

χ^2/NDF : 511825.6/22

Left: -0.789 +/- 0.000

Right: 0.778 +/- 0.000

In: 2.595 +/- 0.000

Out: -2.609 +/- 0.000

All: -0.074 +/- 0.000

χ^2/NDF : 32668496095314519

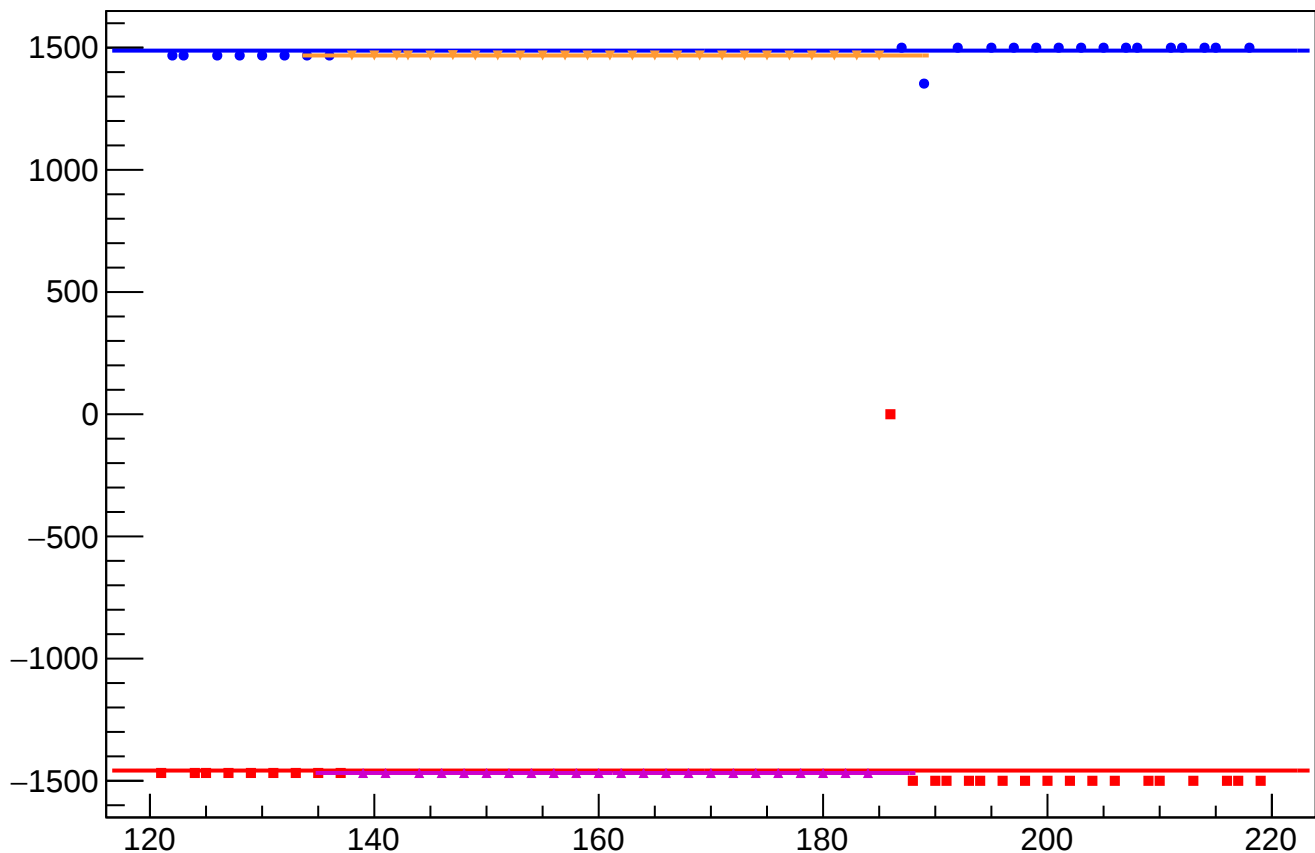
χ^2/NDF : 27352898105751804

χ^2/NDF : 2899218264426791904

χ^2/NDF : 30607711855983623

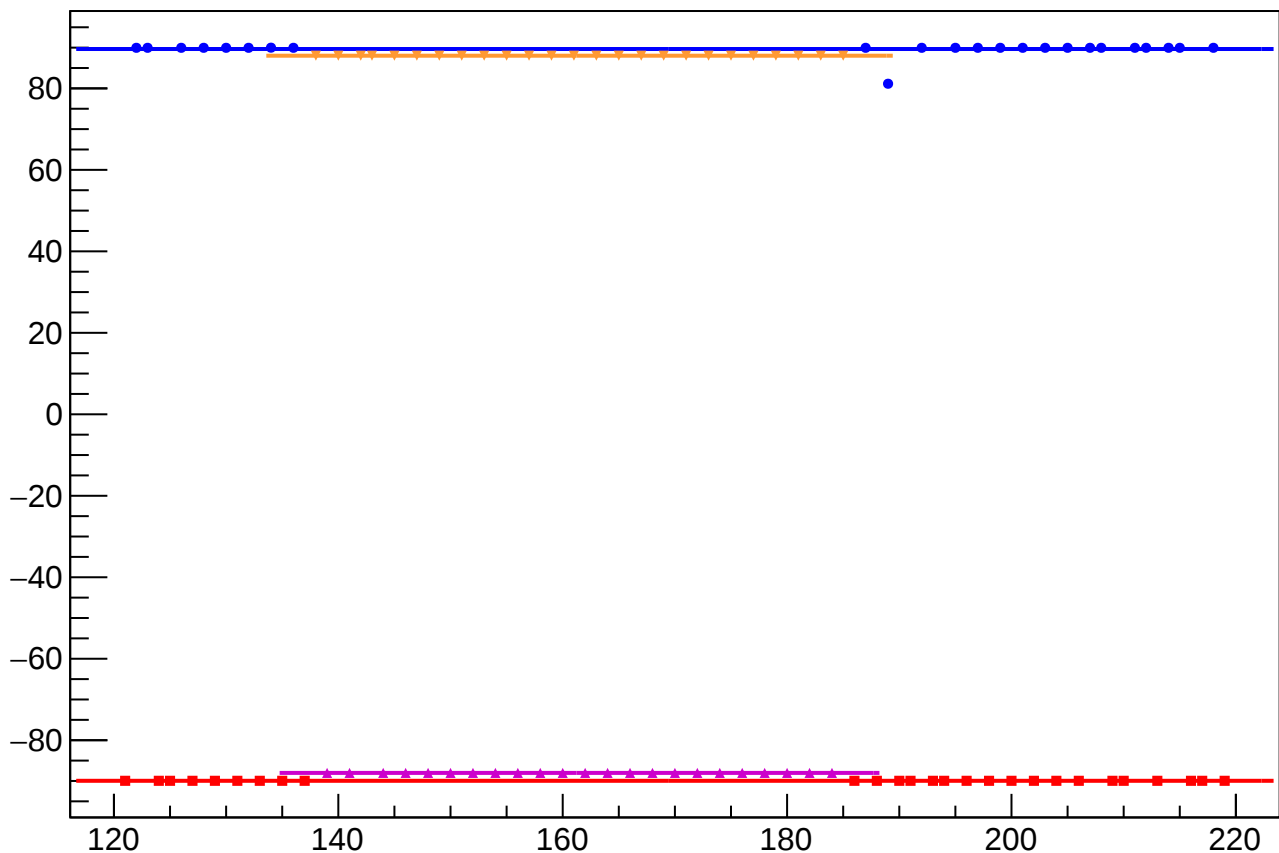
χ^2/NDF : 6006306865814

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1487.957+/-0.000 χ^2/NDF : 1229479811525084622300428342472474624.0/23
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127960980922965975039069502046208.0/24
 Right Out: -1458.058+/-0.000 χ^2/NDF : 83007557534286417755834562519731535872.0/26
 Left In: -1467.994+/-0.000 χ^2/NDF : 145848702340275035310993178624.0/22
 All: 11.500+/-0.000 χ^2/NDF : 1488018807305

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.665+/-0.000

χ^2/NDF : 3834676034784134828435102259740672.0/23

Left: 2.342+/-0.000 χ^2/NDF : 288085769312401978

Right: -2.360+/-0.000 χ^2/NDF : 2519536523733628

Left Out: 88.021+/-0.000

χ^2/NDF : 5326388.8/24

Right Out: -89.959+/-0.000

χ^2/NDF : 4758913.9/26

In: -6.824+/-0.000 χ^2/NDF : 261321040036057406

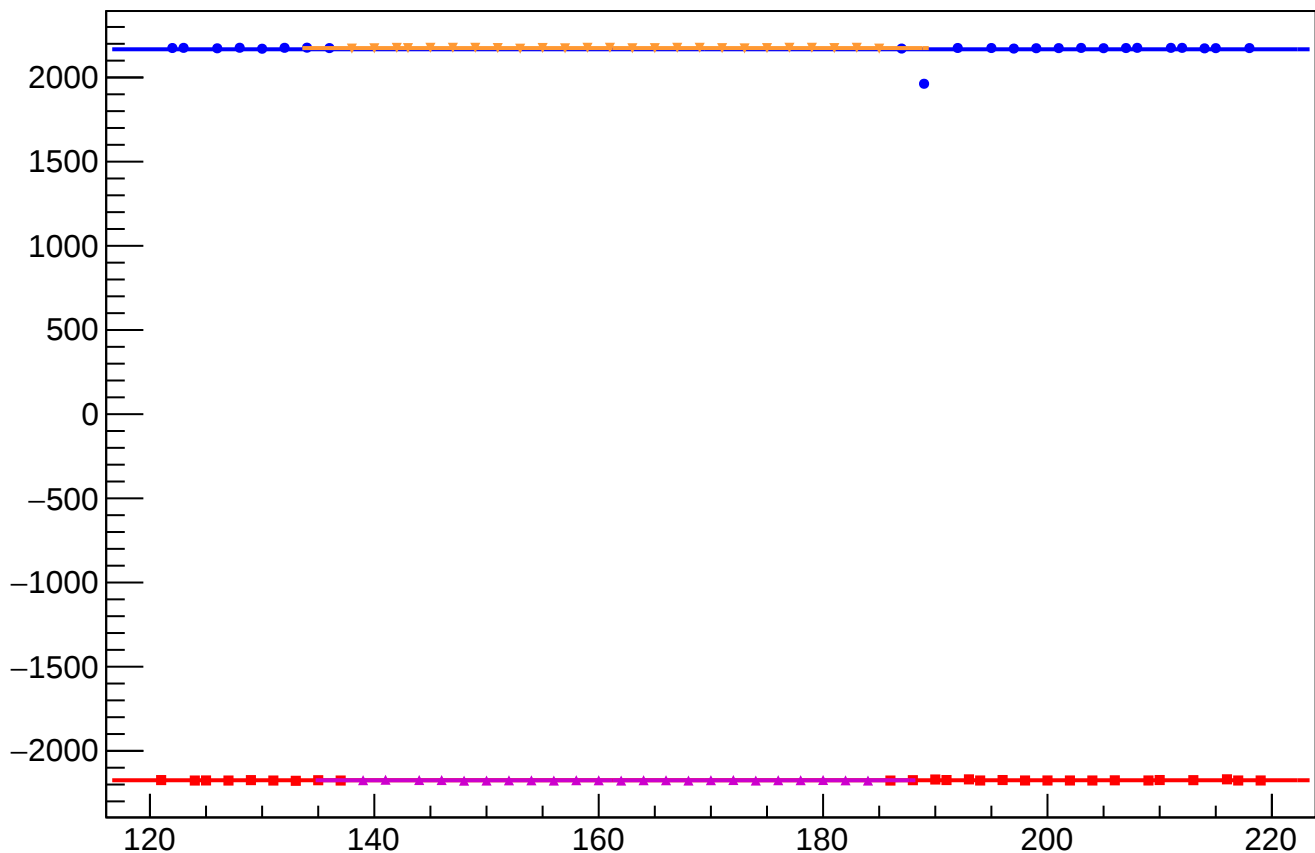
Out: 6.863+/-0.000 χ^2/NDF : 275890200353072769

Left In: -88.021+/-0.000

χ^2/NDF : 6084099.2/22

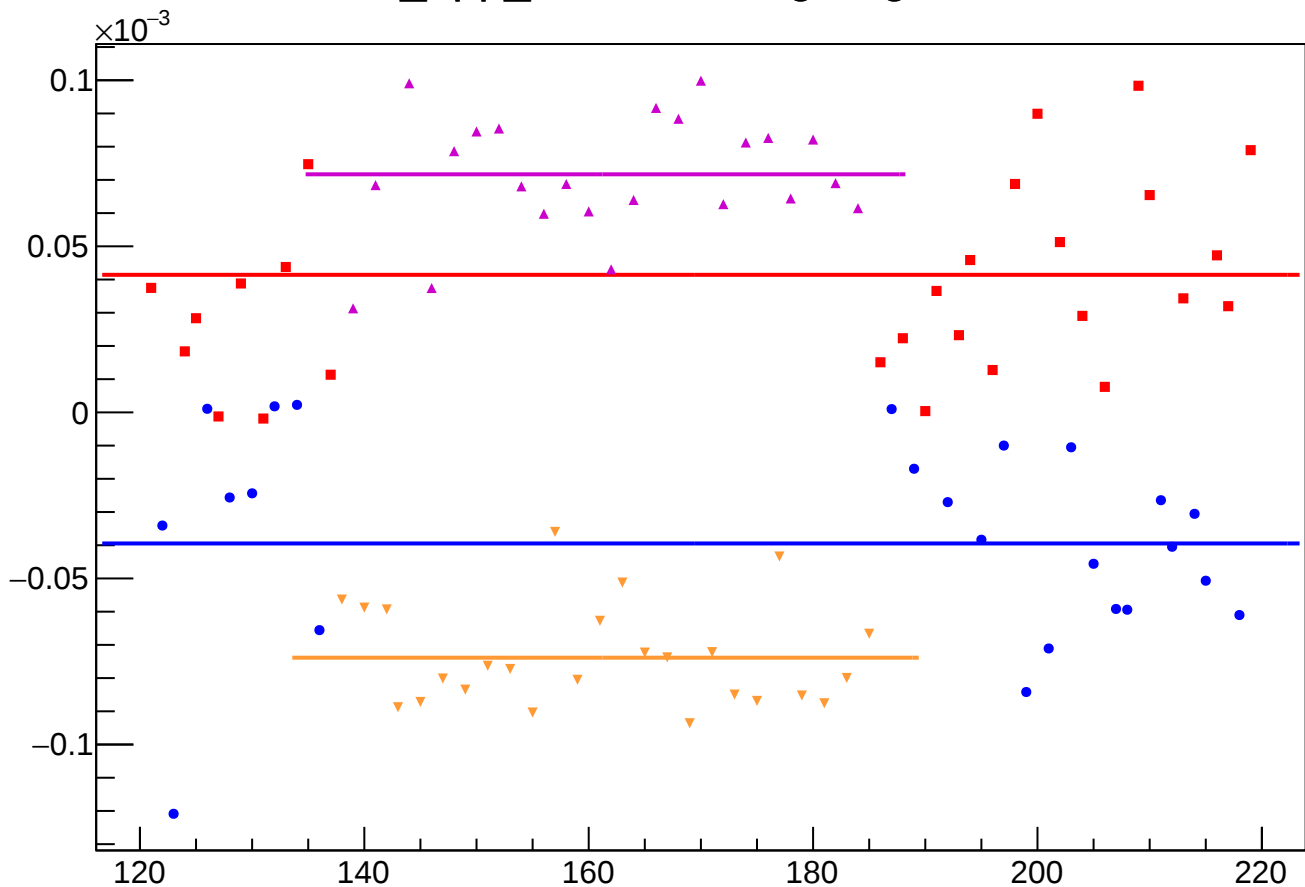
All: 0.195+/-0.000 χ^2/NDF : 54041497262748

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2167.395+/-0.000 χ^2/NDF : 2215640241400770666077011645281861632.0/23
 Left Out: 2174.622+/-0.000 χ^2/NDF : 5110578135476093110874911595823104.0/24
 Right Out: -2174.538+/-0.000 χ^2/NDF : 7287483634271028865642845219848192.0/26
 Left In: -2174.539+/-0.000 χ^2/NDF : 3400742562425168967494665391570944.0/22
 All: 5.421+/-0.000 χ^2/NDF : 32327575173538

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 869106677147903952158720.0/23

Left Out: -0.000+/-0.000

χ^2/NDF : 450400934180541069000704.0/24

Right Out: 0.000+/-0.000

χ^2/NDF : 1247090835950715807989760.0/26

Left In: 0.000+/-0.000

χ^2/NDF : 562166279020739416817664.0/22

Left: -0.000+/-0.000

χ^2/NDF : 20702696564433151

Right: 0.000+/-0.000

χ^2/NDF : 72235850225478885

In: 0.000+/-0.000

χ^2/NDF : 116543157214158786

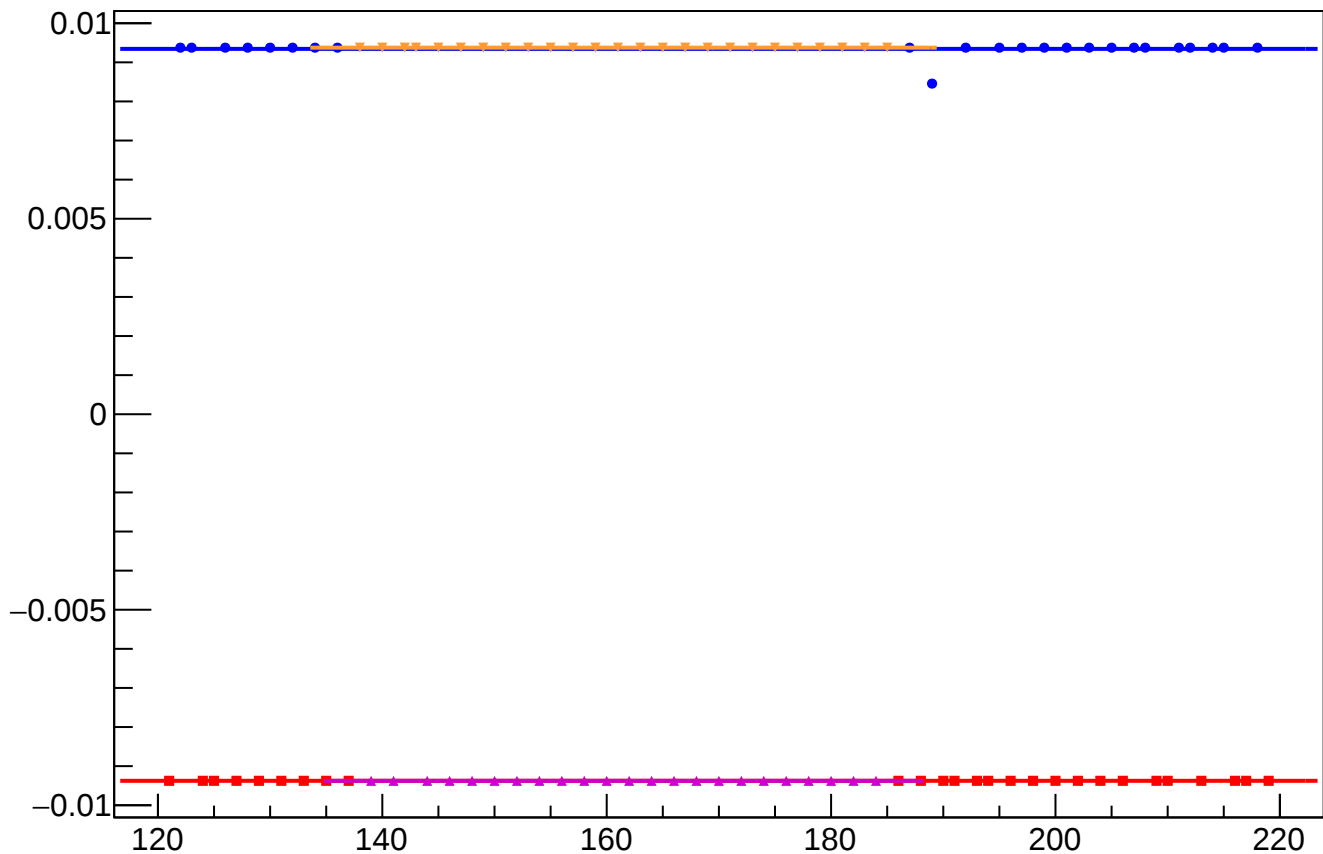
Out: -0.000+/-0.000

χ^2/NDF : 13270700524442328

All: -0.000+/-0.000

χ^2/NDF : 2796869878717

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41641864361393116124545024.0/23

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

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 : 2736332680147051

In: -0.001+/-0.000

χ^2/NDF : 290032363413880477

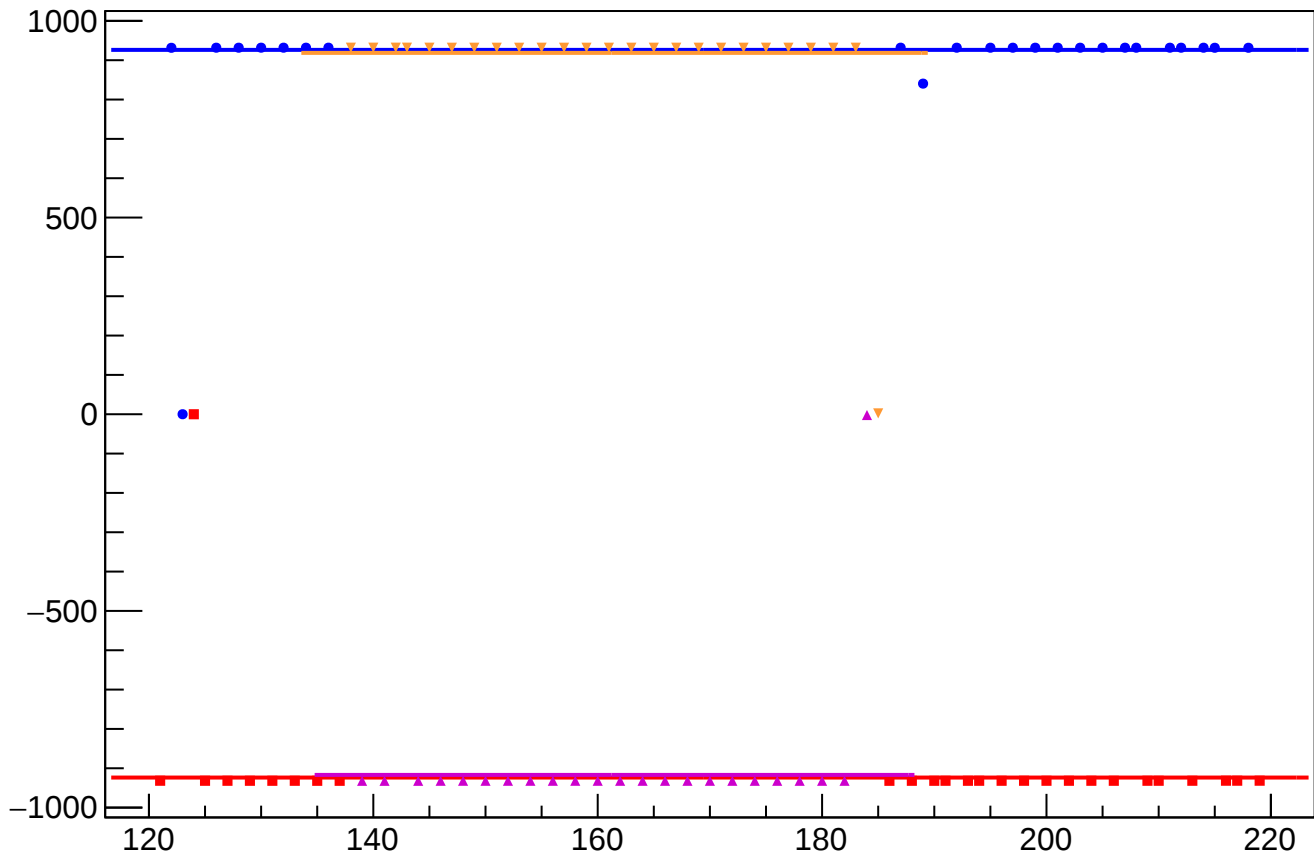
Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

All: 0.000+/-0.000

χ^2/NDF : 60085968588693

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 926.267+/-0.000

χ^2/NDF : 3851330283291702233035832041081405440.0/23

Left: 25.295+/-0.000 χ^2/NDF : 31796385721824018

Right: -21.469+/-0.000 χ^2/NDF : 268778773686546

Left Out: 918.645+/-0.000

χ^2/NDF : 23003498704056084939752432521336324096.0/24

In: -74.619+/-0.000 χ^2/NDF : 28399819674750976

Right Out: -923.623+/-0.000

χ^2/NDF : 12047653448681008205248449089676247040.0/26

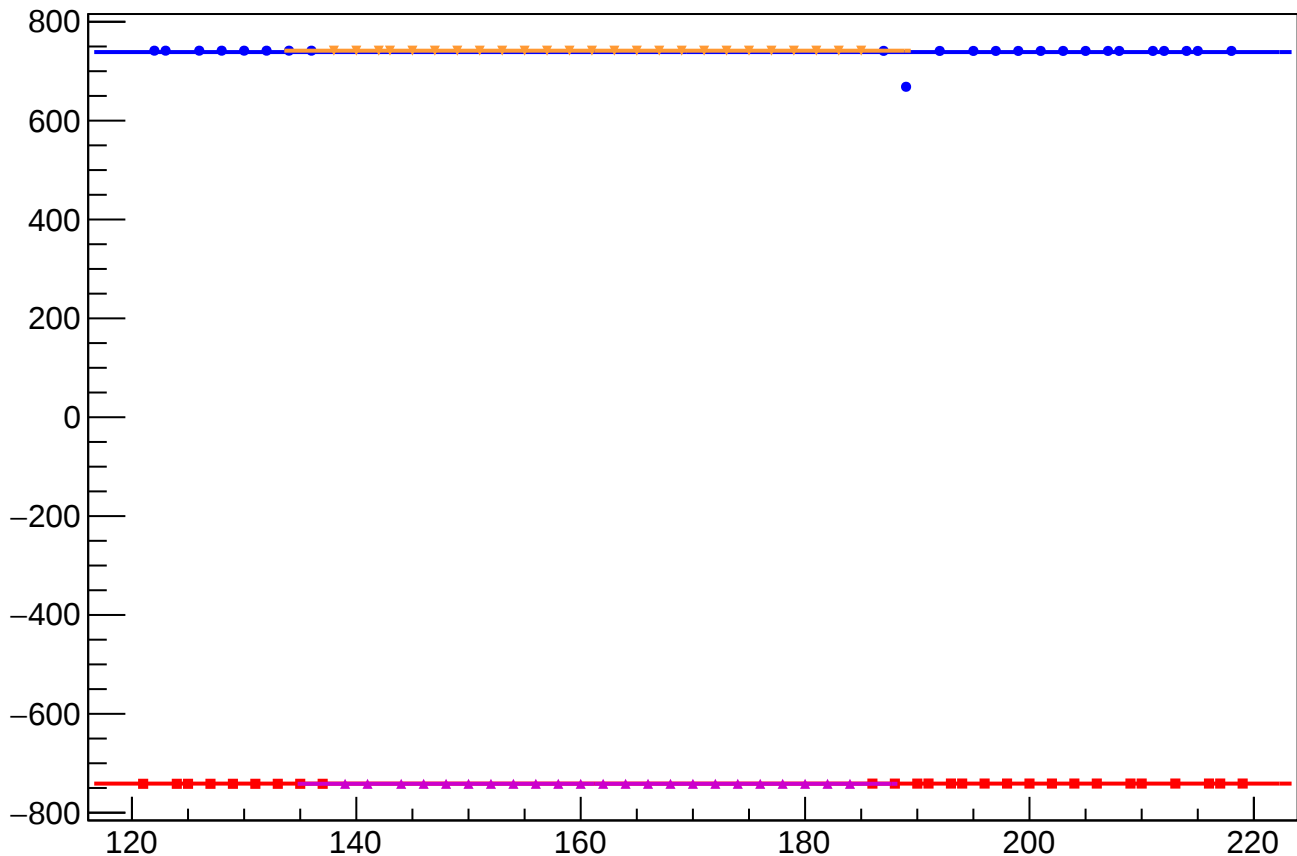
Out: 78.579+/-0.000 χ^2/NDF : 29910168846332206

Left In: -916.890+/-0.000

χ^2/NDF : 24667894917476231250286944388888133632.0/22

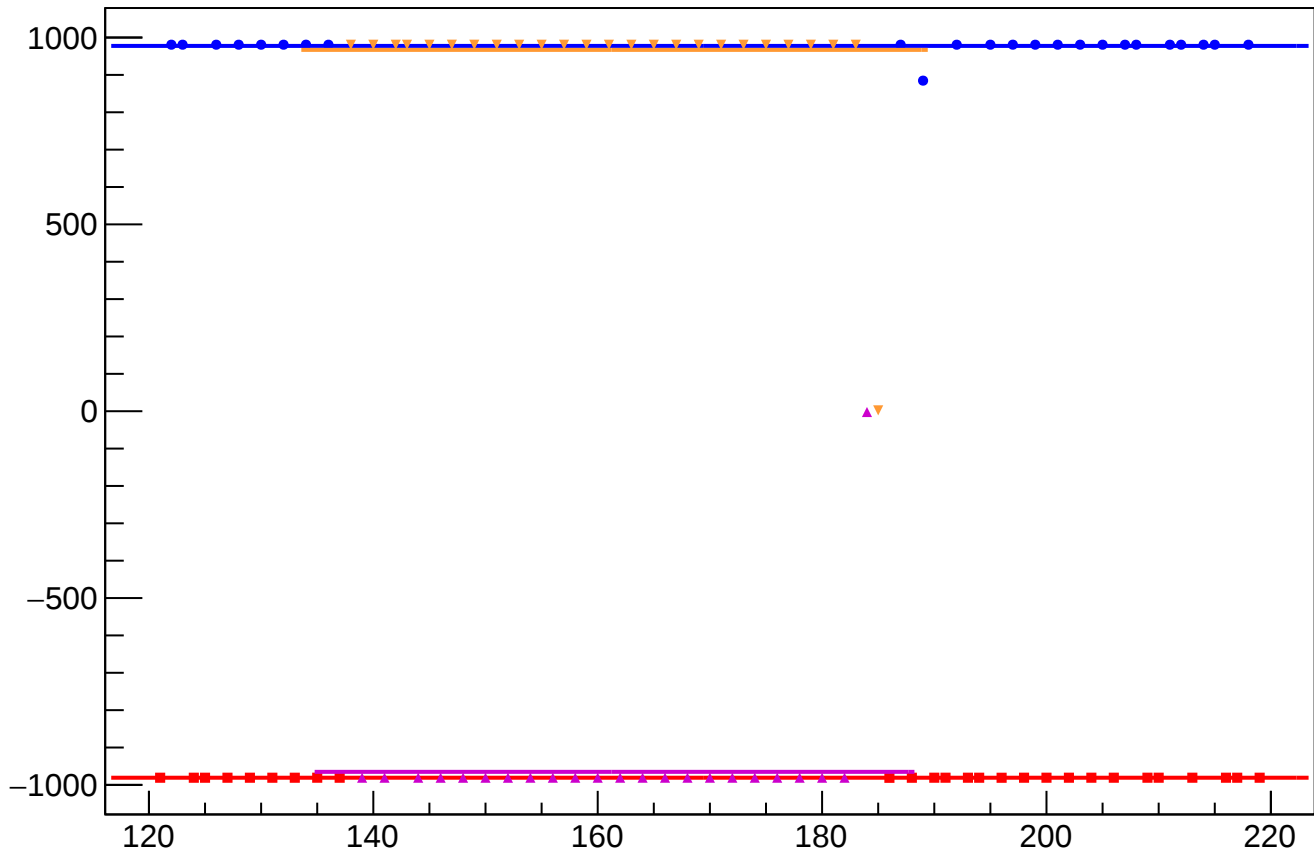
All: 3.949+/-0.000 χ^2/NDF : 58711407474205

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 738.712+/-0.000	χ^2/NDF : 260178321843173425327284063169413120.0/23	Left: 19.729+/-0.000	χ^2/NDF : 20445098666994125
Left Out: 741.513+/-0.000	χ^2/NDF : 244782737401533731539808944128.0/24	Right: -19.446+/-0.000	χ^2/NDF : 171012759417790
Right Out: -741.140+/-0.000	χ^2/NDF : 62390899526182309743103892783104.0/26	In: -65.092+/-0.000	χ^2/NDF : 18135298389101829
Left In: -741.512+/-0.000	χ^2/NDF : 215375309108434607405602439168.0/22	Out: 65.430+/-0.000	χ^2/NDF : 19145763386983709
	All: 1.847+/-0.000		χ^2/NDF : 37572441090463

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.590+/-0.000 χ^2/NDF : 455881646625906518826364840290811904.0/23

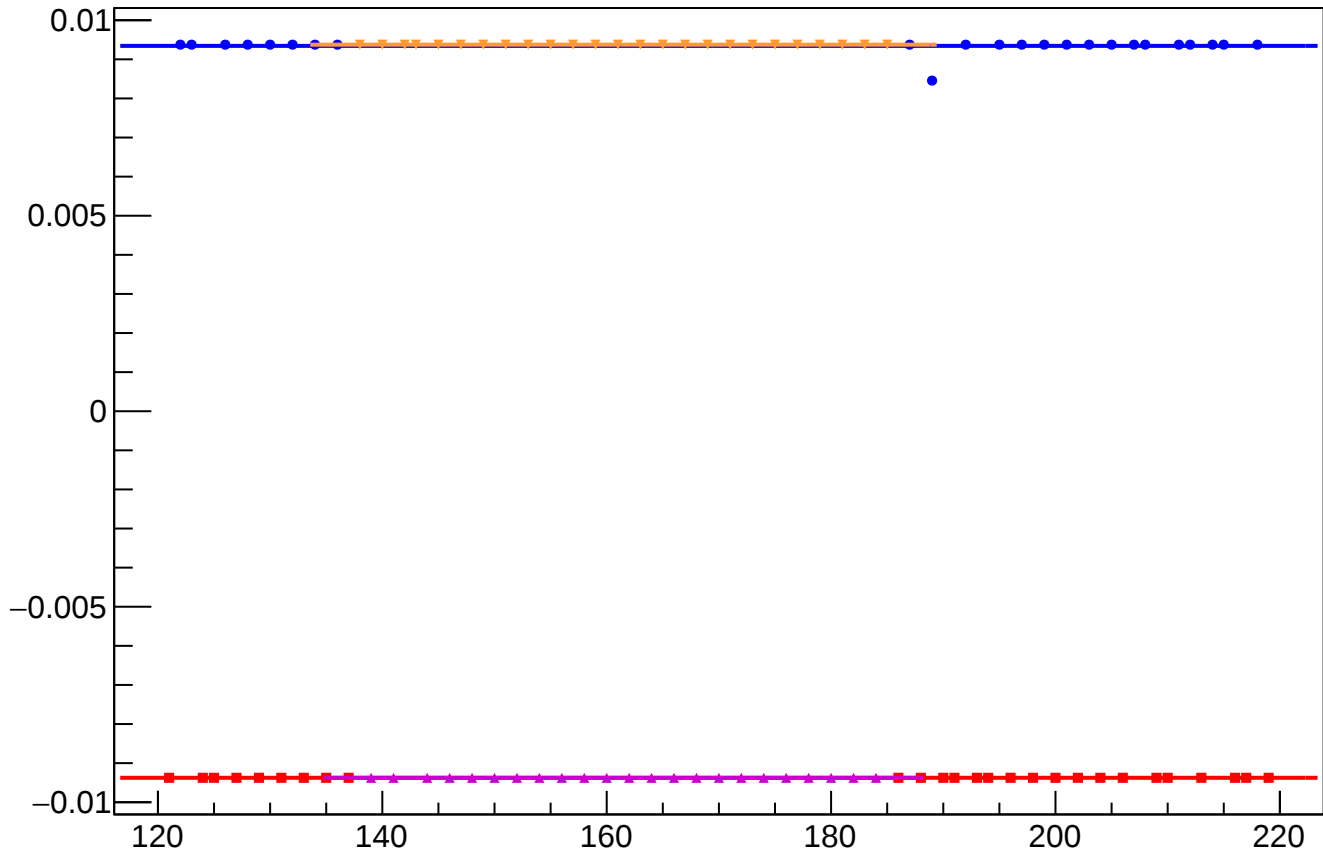
Left Out: 966.936+/-0.000 χ^2/NDF : 25485578616543458629432284645183979520.0/24

Right Out: -980.816+/-0.000 χ^2/NDF : 3536932158628458017817819611136.0/26

Left In: -965.102+/-0.000 χ^2/NDF : 27330319430012441419356351914146004992.0/22

All: 2.718+/-0.000 χ^2/NDF : 65224314799936

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41641864361393116124545024.0/23

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

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 : 2736332680147051

In: -0.001+/-0.000

χ^2/NDF : 290032363413880477

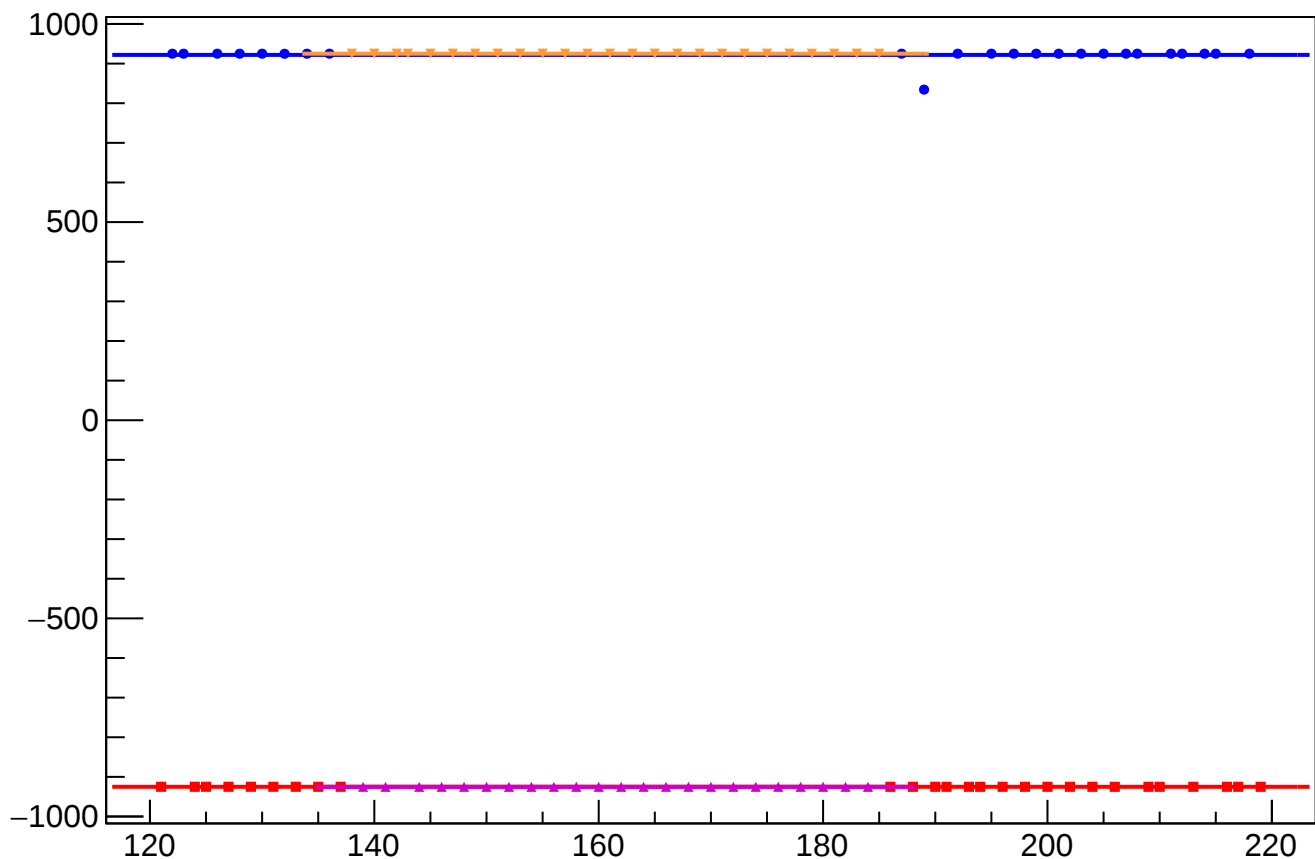
Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

All: 0.000+/-0.000

χ^2/NDF : 60085968588693

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 921.961+/-0.000

χ^2/NDF : 405098833259804168923136303290122240.0/23

Left Out: 924.983+/-0.000

χ^2/NDF : 1041831865443970524066476982272.0/24

Right Out: -925.000+/-0.000

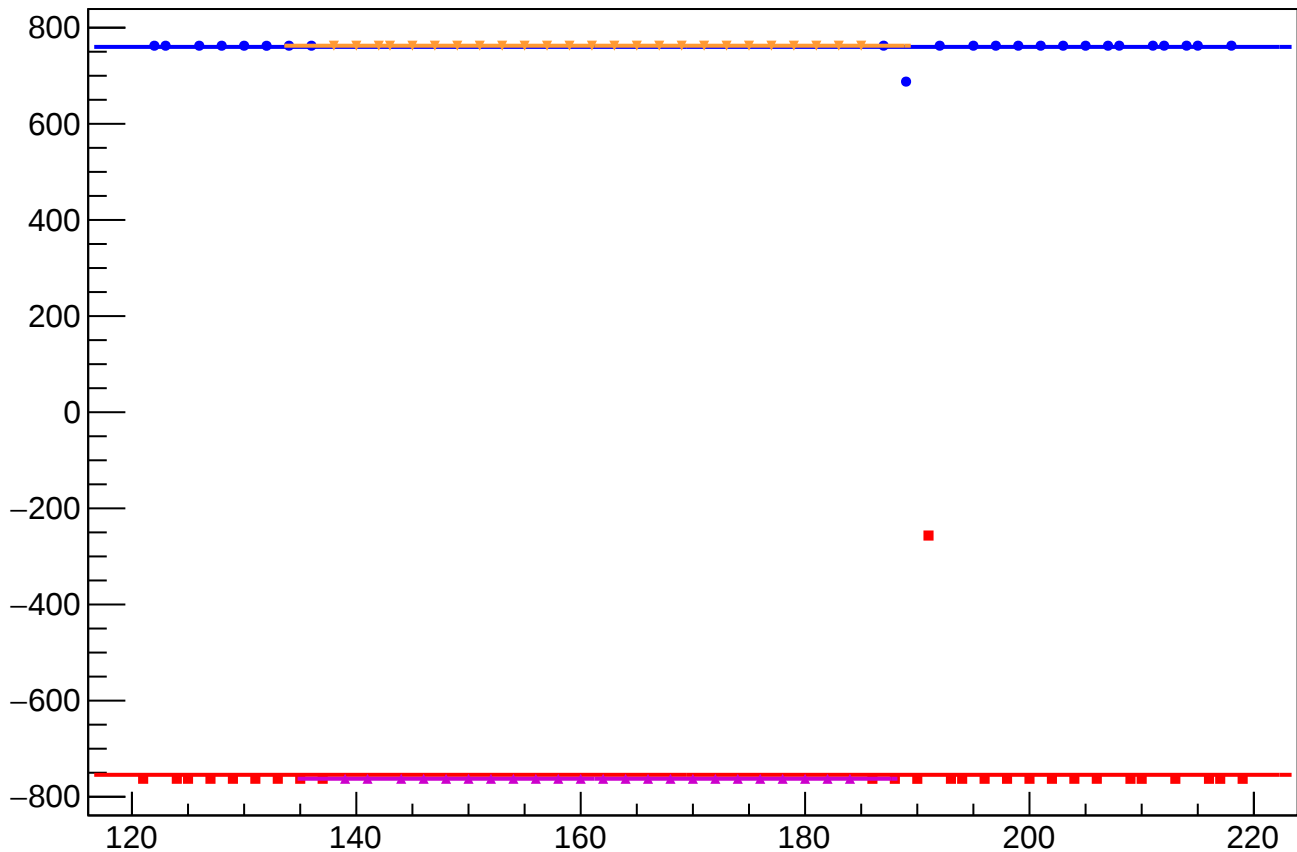
χ^2/NDF : 946095739731195692794521845760.0/26

Left In: -924.983+/-0.000

χ^2/NDF : 888539224321534960792212865024.0/22

All: 2.296+/-0.000 χ^2/NDF : 58493052025409

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 760.031+/-0.000

χ^2/NDF : 275213314399571259631382656666566656.0/23

Left Out: 762.518+/-0.000

χ^2/NDF : 731741258759628909874415403008.0/24

Right Out: -754.326+/-0.000

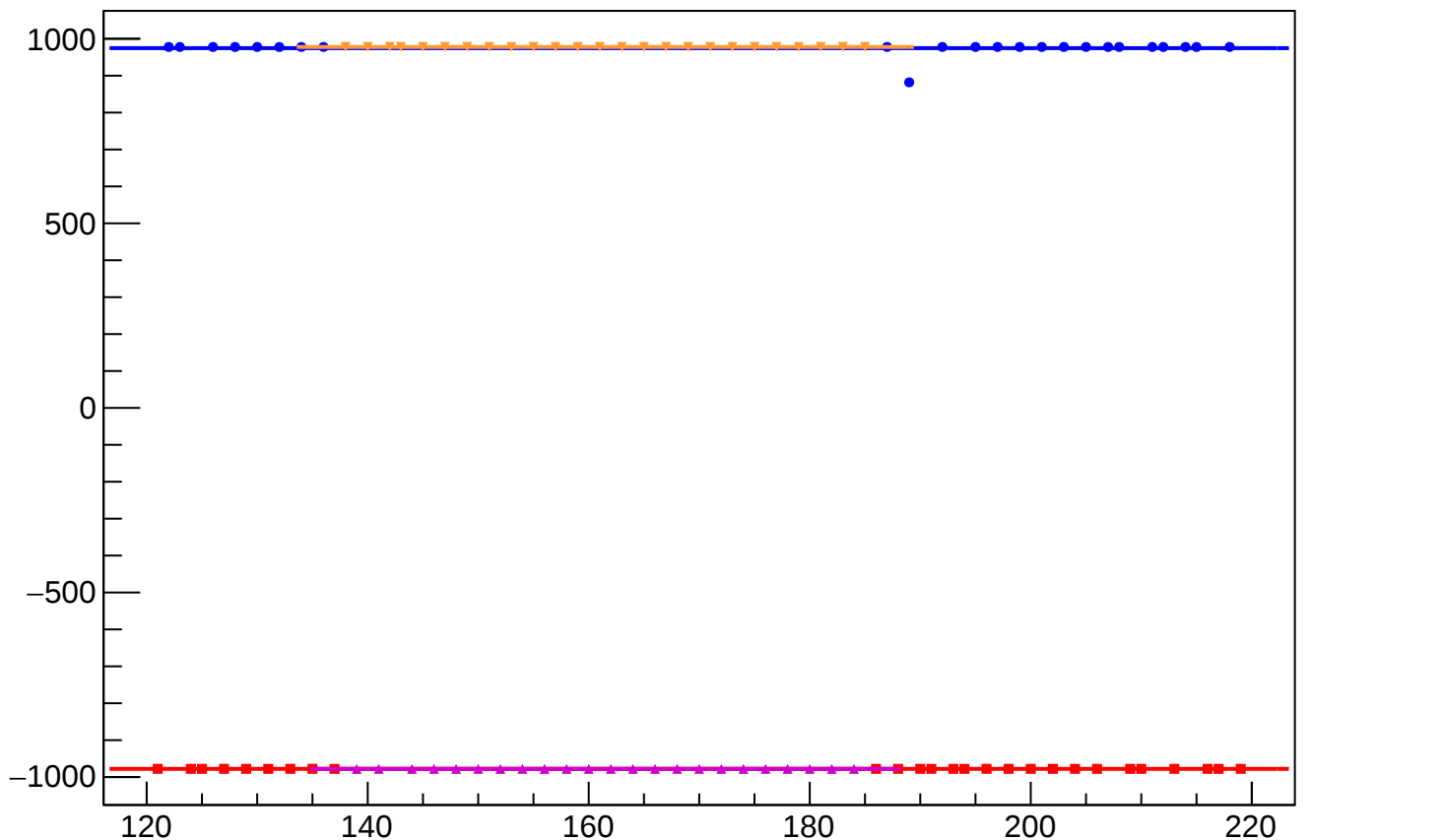
χ^2/NDF : 6548638176054627650031123488097435648.0/26

Left In: -762.519+/-0.000

χ^2/NDF : 629058355419214408155297480704.0/22

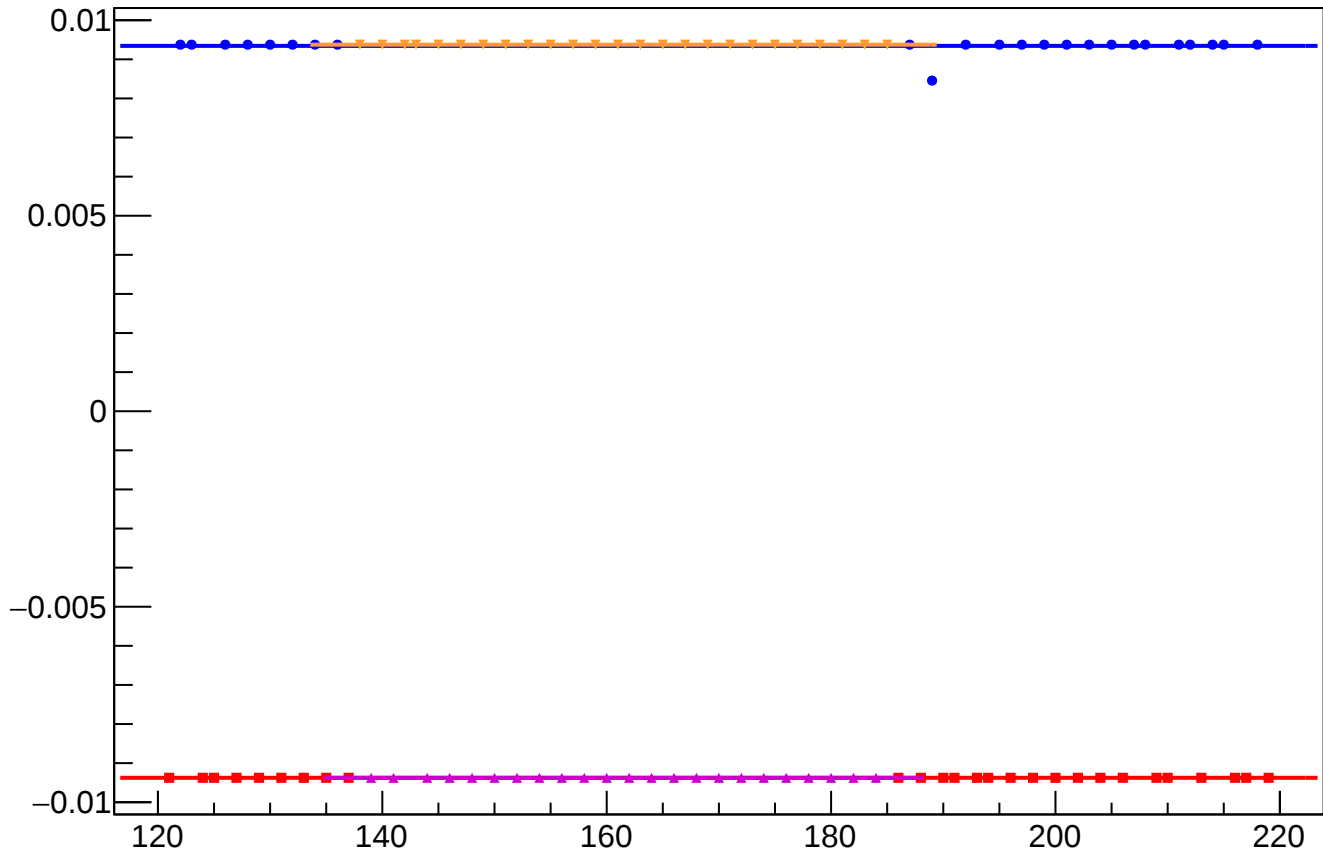
All: 3.812+/-0.000 χ^2/NDF : 39615605758745

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 974.553+/-0.000 χ^2/NDF : 452782586601889418243500065788264448.0/23
 Left Out: 977.738+/-0.000 χ^2/NDF : 1154150409979077132991401558016.0/24
 Right Out: -977.758+/-0.000 χ^2/NDF : 1860431267044362431091676545024.0/26
 Left In: -977.735+/-0.000 χ^2/NDF : 976503887937607318263199432704.0/22
 All: 2.429+/-0.000 χ^2/NDF : 65355671550663

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41641864361393116124545024.0/23

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

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 : 2736332680147051

In: -0.001+/-0.000

χ^2/NDF : 290032363413880477

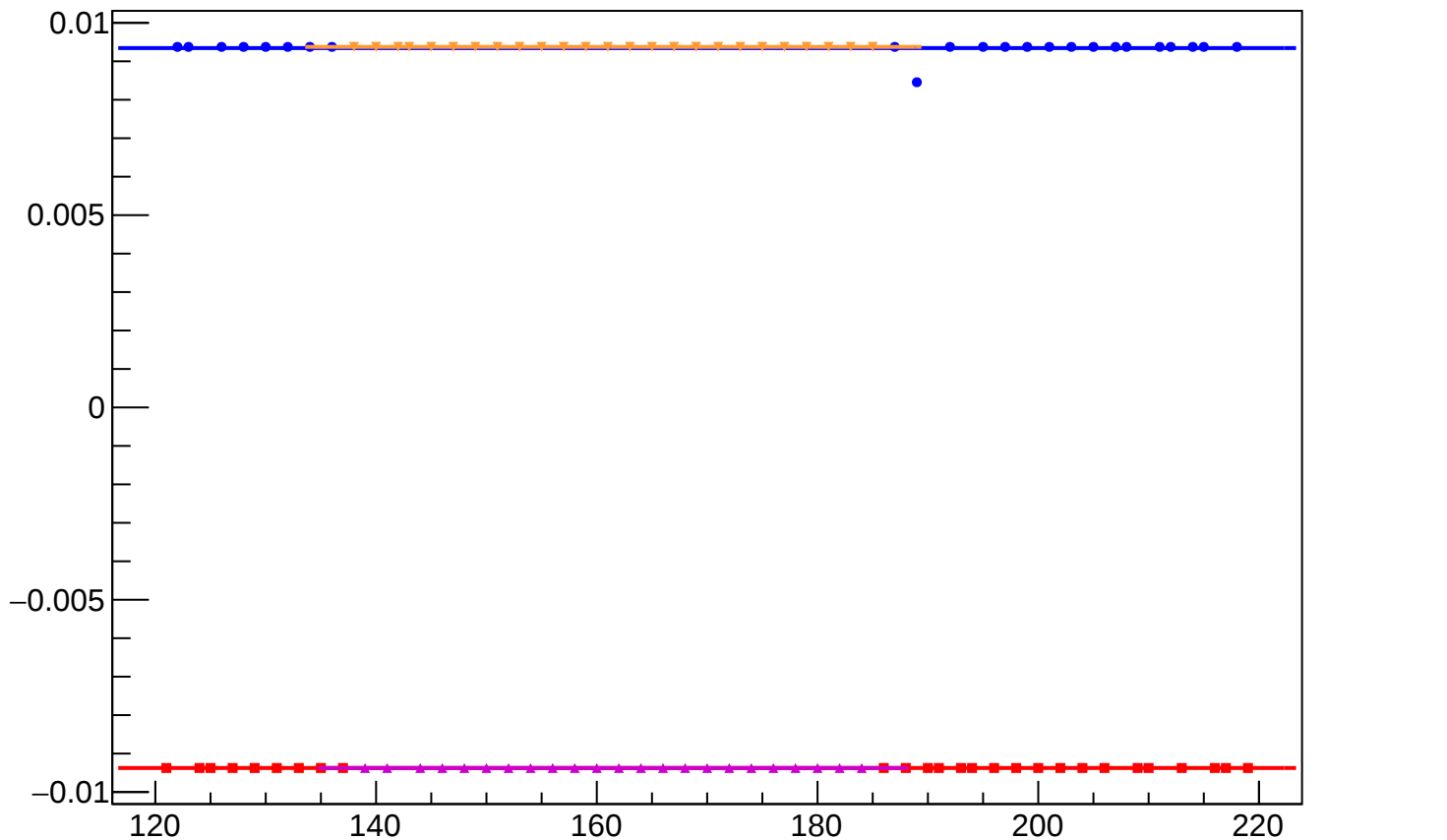
Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

All: 0.000+/-0.000

χ^2/NDF : 60085968588693

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 41641864361393116124545024.0/23

Left Out: 0.009+/-0.000

χ^2/NDF : 0.1/24

Right Out: -0.009+/-0.000

χ^2/NDF : 0.1/26

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 : 2736332680147051

In: -0.001+/-0.000

χ^2/NDF : 290032363413880477

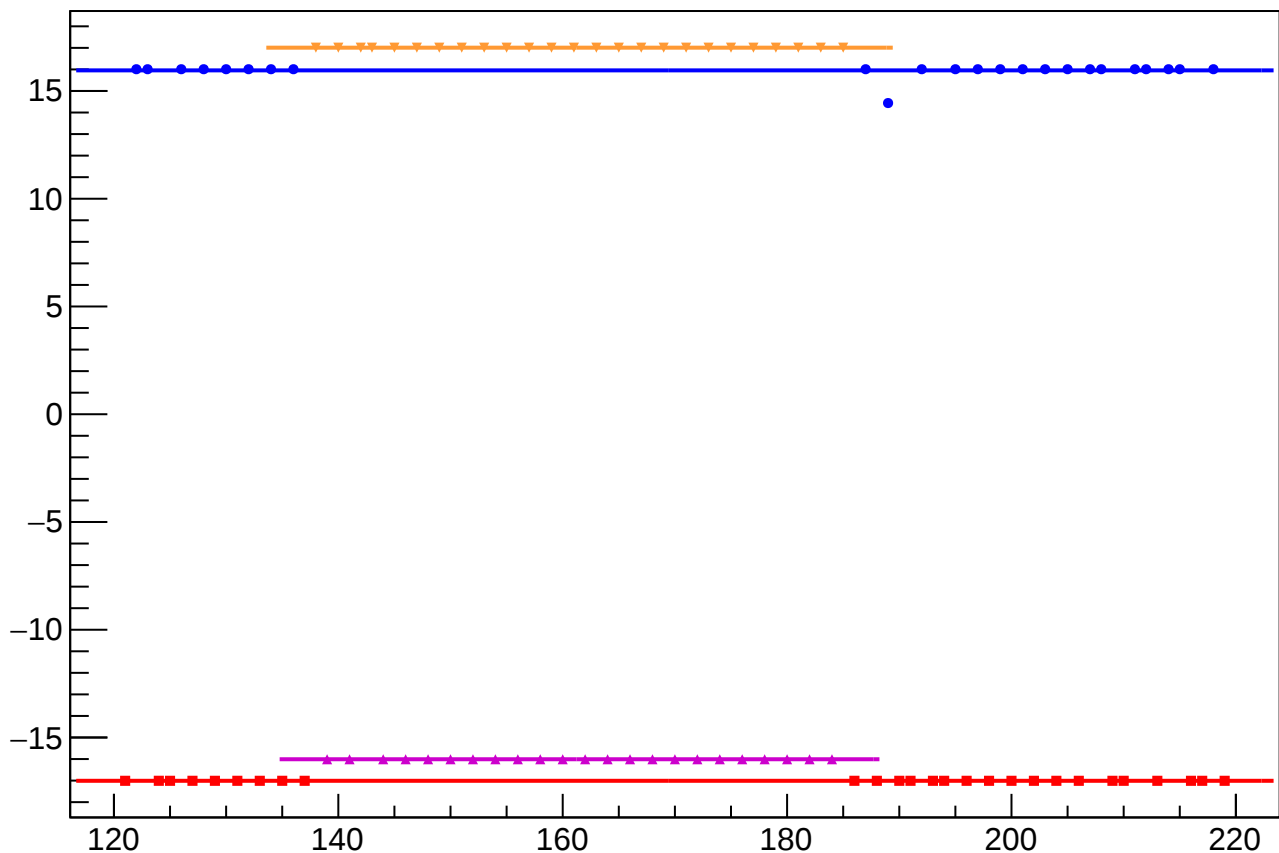
Out: 0.001+/-0.000

χ^2/NDF : 306193814974365545

All: 0.000+/-0.000

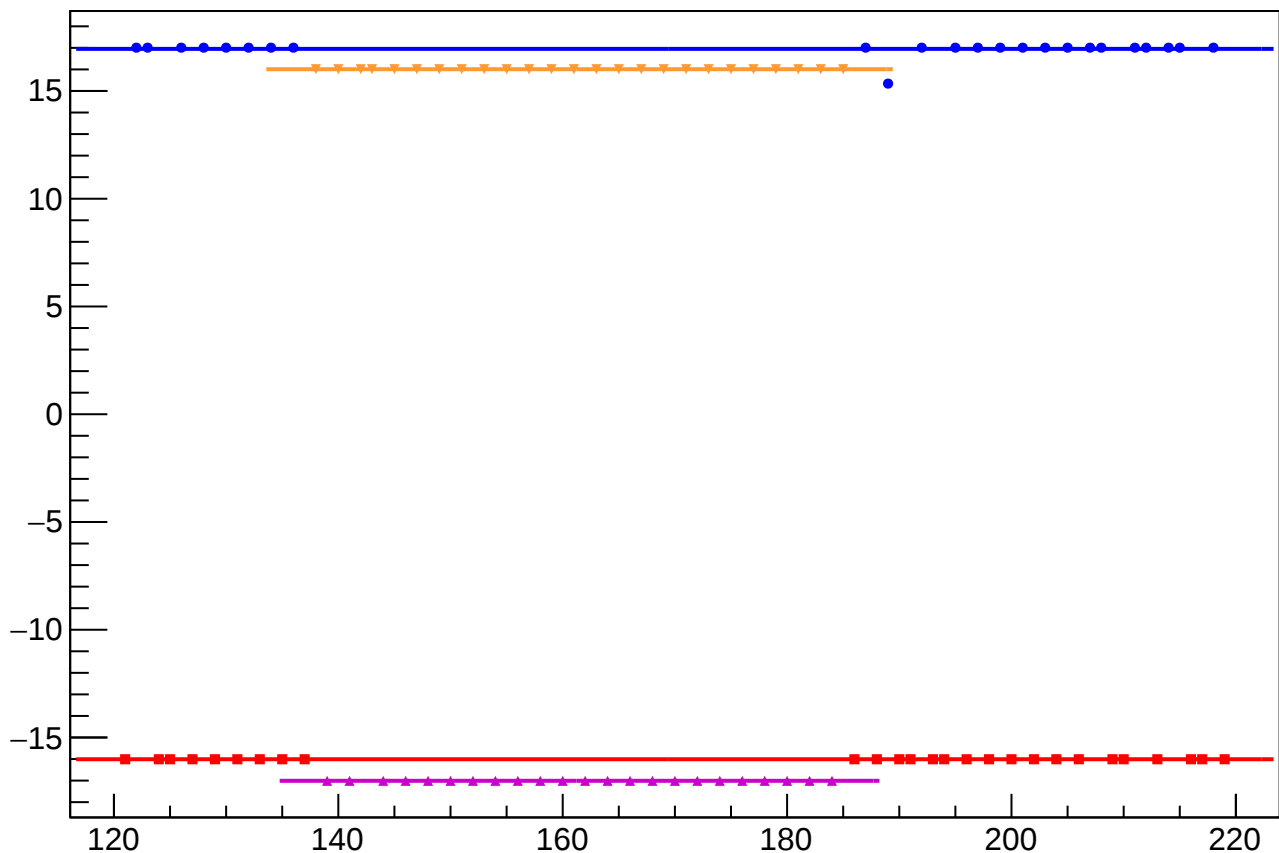
χ^2/NDF : 60085968588693

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



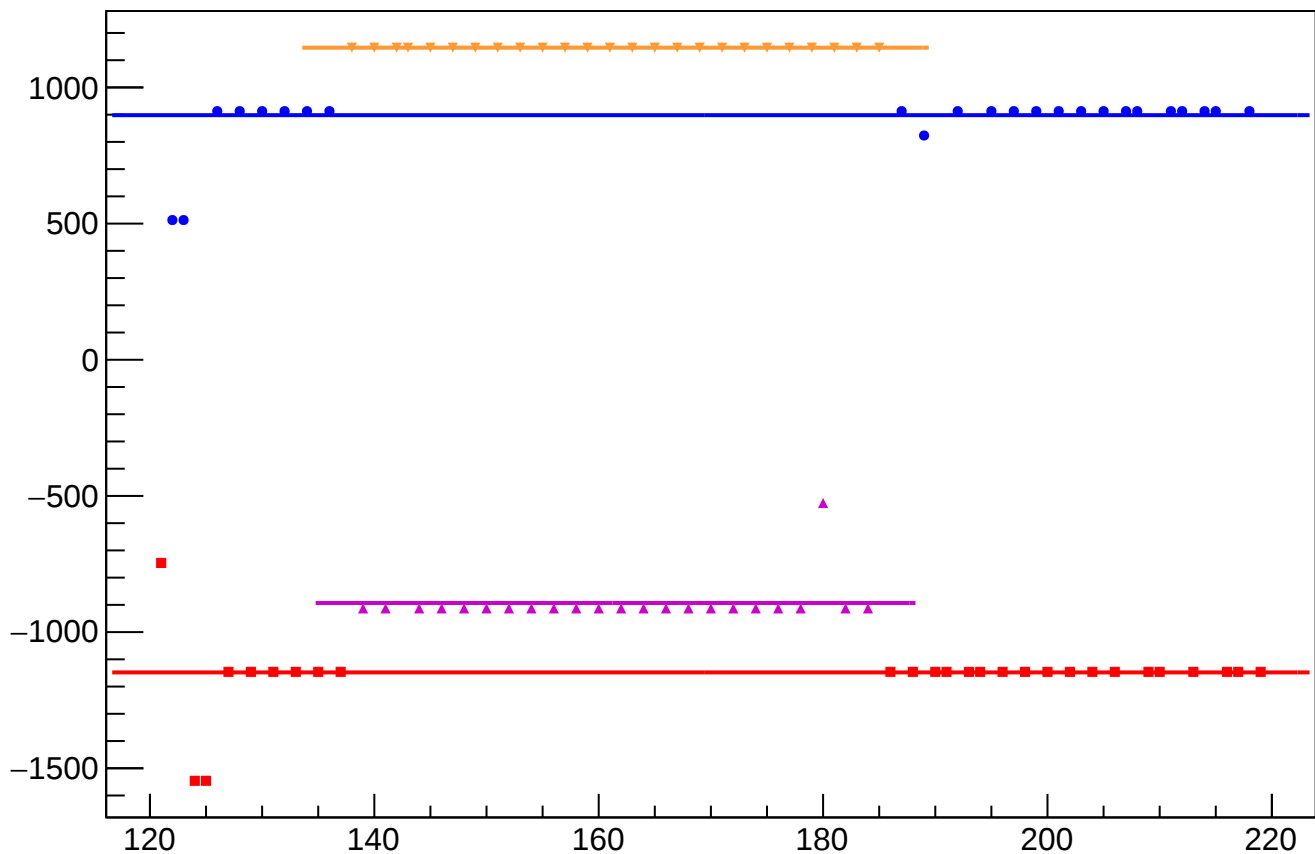
Right In: 15.956 $\pm$ 0.000 χ^2 /NDF: 121358758616927150227191851122688.0/23
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26284444608576238643052544.0/24
 Right Out: -17.009 $\pm$ 0.000 χ^2 /NDF: 18464155514781331791806464.0/26
 Left In: -16.009 $\pm$ 0.000 χ^2 /NDF: 127973174512756677672960.0/22
 All: 0.029 $\pm$ 0.000 χ^2 /NDF: 17849483419990.0/27

IGL1I00OD16_16_mean vs Slug, Sign Corrected



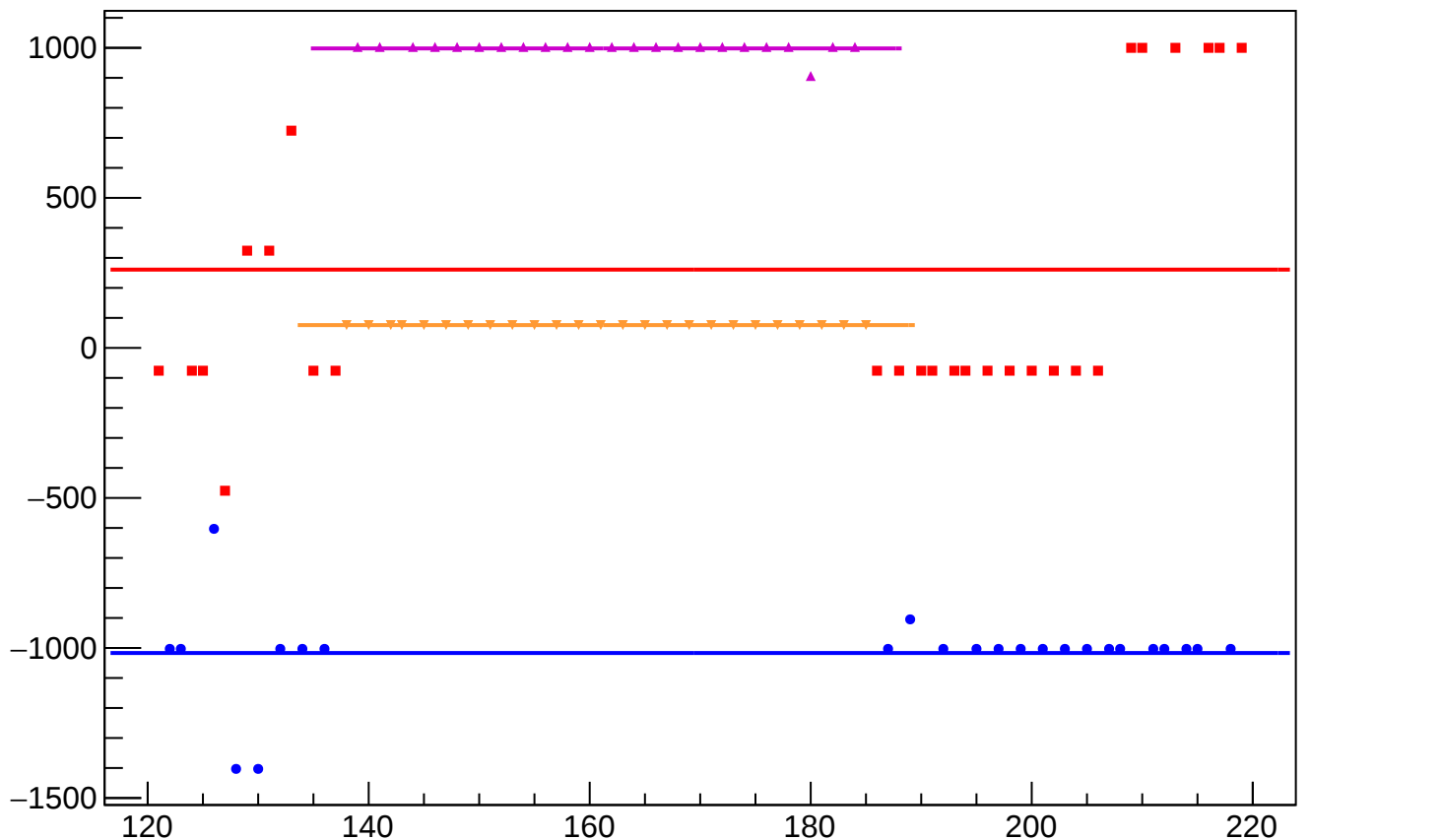
Right In: 16.954 $\pm$ 0.000	χ^2 /NDF: 137075695921218250795102840553472.0/23	Left: 0.042 $\pm$ 0.000	χ^2 /NDF: 99431233770062905
Left Out: 16.009 $\pm$ 0.000	χ^2 /NDF: 89740.8/24	Right: 0.066 $\pm$ 0.000	χ^2 /NDF: 84849300357835026
Right Out: -16.009 $\pm$ 0.000	χ^2 /NDF: 253331.6/26	In: -1.277 $\pm$ 0.000	χ^2 /NDF: 943742051203973062
Left In: -17.009 $\pm$ 0.000	χ^2 /NDF: 115033472633445654986752.0/22	Out: 1.308 $\pm$ 0.000	χ^2 /NDF: 887748238812174353
		All: 0.053 $\pm$ 0.000	χ^2 /NDF: 18428062722934

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 898.187+/-0.000 χ^2/NDF : 7274552111485240646110453975784357888.0/23
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8041760976861450519237885952.0/24
 Right Out: -1148.009+/-0.000 χ^2/NDF : 13754271185883278485733122331782414336.0/26
 Left In: -893.116+/-0.000 χ^2/NDF : 13219826761707982974212661987208331264.0/22
 All: 14.946+/-0.000 χ^2/NDF : 7325225605434

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1016.758 $\pm$ 0.000

χ^2/NDF : 23403855953255130577088451999122325504.0/23

Left Out: 76.011 $\pm$ 0.000

χ^2/NDF : 11003263624957134120836661248.0/24

Right Out: 260.938 $\pm$ 0.000

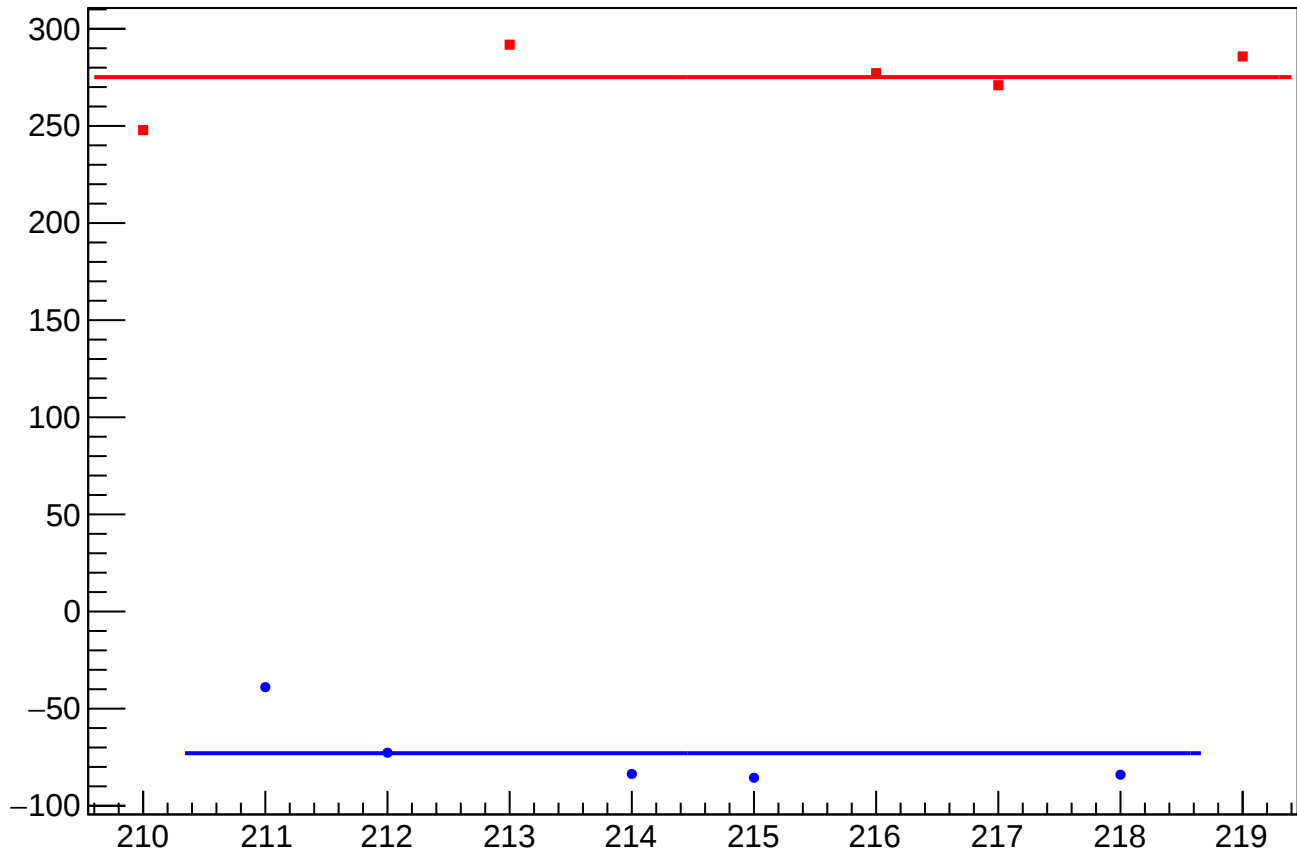
χ^2/NDF : 393215478595281931183613211087833399296.0/26

Left In: 998.020 $\pm$ 0.000

χ^2/NDF : 826231736084035689068445378231140352.0/22

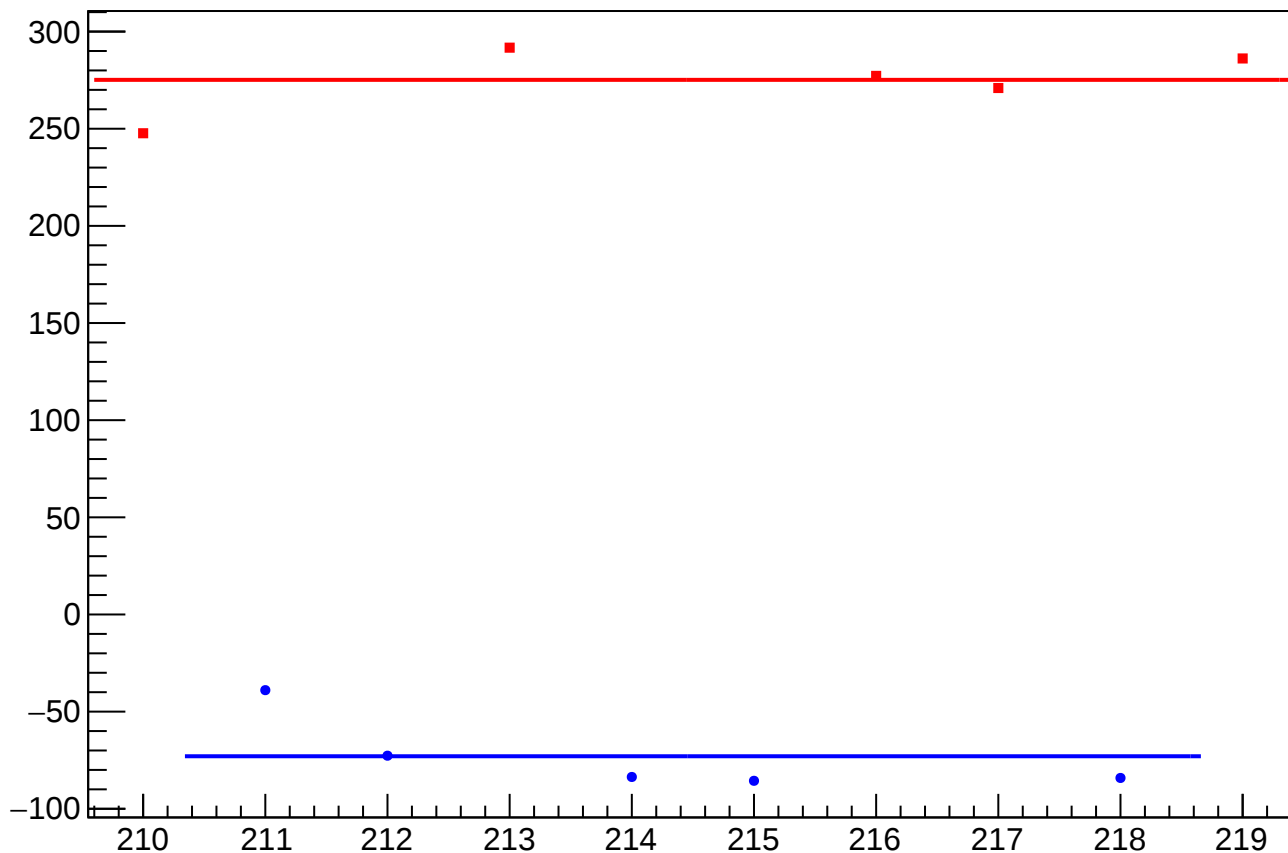
All: 119.897 $\pm$ 0.000 χ^2/NDF : 381842059222

RTPPITA1CNT_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
Right: 100.861+/-0.000 χ^2/NDF : 233150547196279
Right In: -72.945+/-0.000 χ^2/NDF : 119284685234098125759576533062647808.0/4
Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
Right Out: 275.123+/-0.000 χ^2/NDF : 86164430592231083349779893945630720.0/4
Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
All: 100.861+/-0.000 χ^2/NDF : 233150547196279

RTPPITA2CNT_mean vs Slug, Sign Corrected



Right In: -72.969 ± 0.000 $\chi^2/\text{NDF}: 119488906189493343156944358768377856.0/4$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Right Out: 275.151 ± 0.000 $\chi^2/\text{NDF}: 87316479018886398499496763095777280.0/4$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 All: 100.863 ± 0.000 $\chi^2/\text{NDF}: 233233291579458$