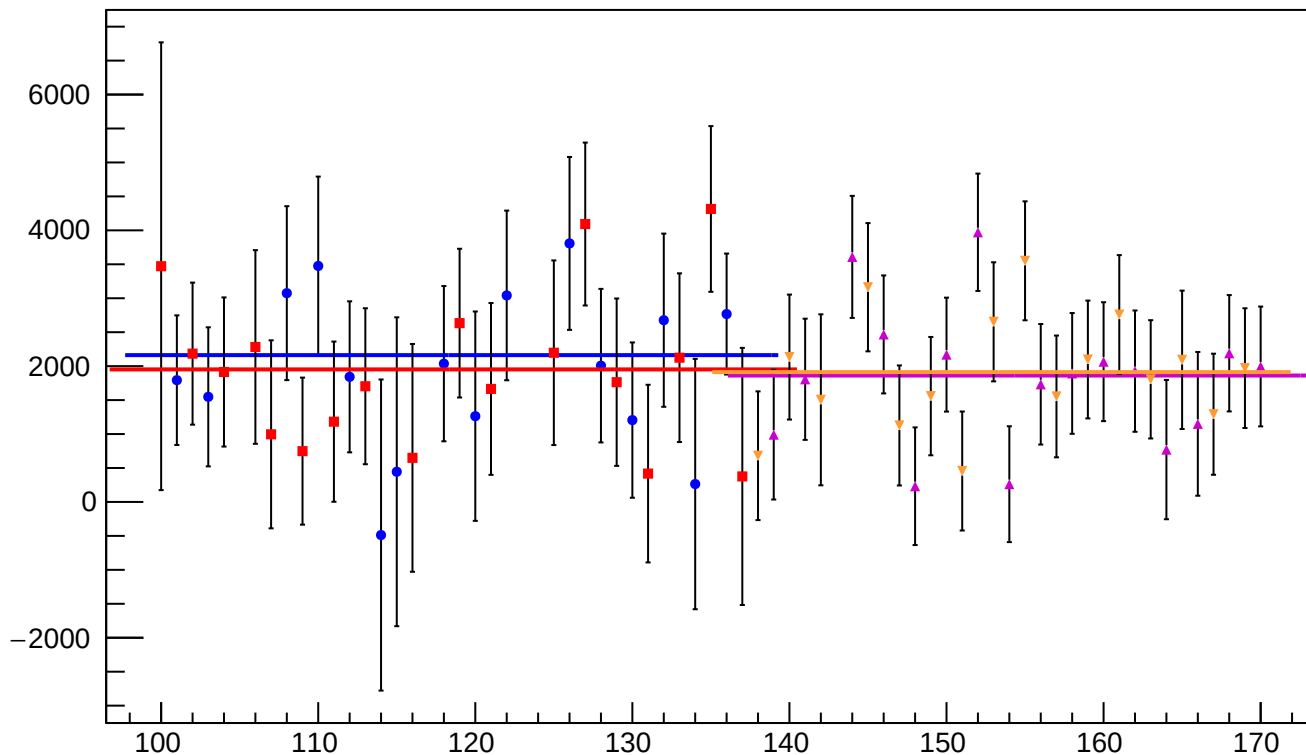


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2162.311+/-307.312

Left Out: 1912.259+/-227.927

Right Out: 1952.148+/-300.581

Left In: 1861.976+/-223.832

χ^2/NDF : 8.9/15

χ^2/NDF :13.2/15

χ^2/NDF : 12.6/17

χ^2/NDF :20.1/15

Left: 1886.662+/-159.701

Right: 2054.903+/-214.883

In: 1966.078+/-180.928

Out: 1926.822+/-181.616

All: 1946.524+/-128.178

χ^2/NDF : 33.3/31

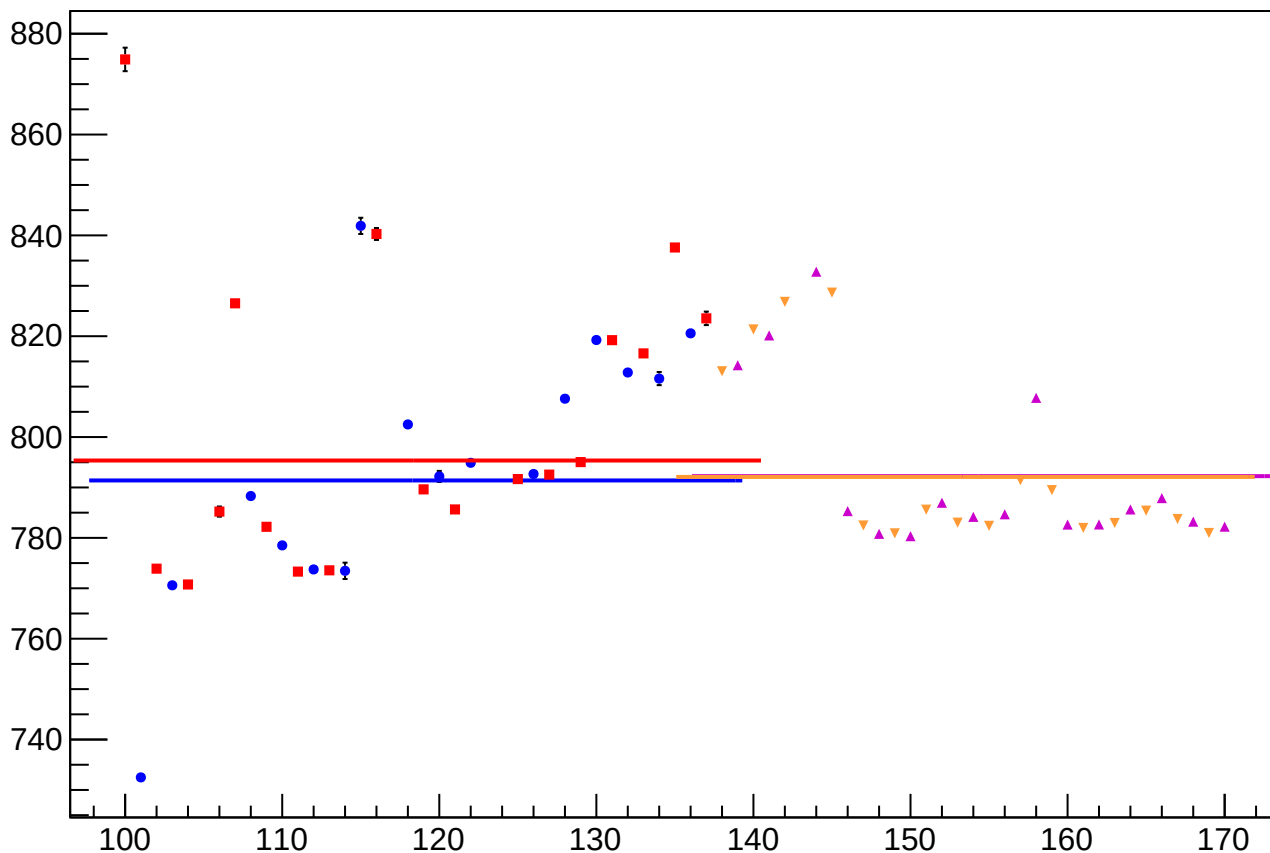
χ^2/NDF : 21.8/33

χ^2/NDF :29.6/31

χ^2/NDF :25.9/33

χ^2/NDF : 55.5/65

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 791.390 $\pm$ 0.217 χ^2 /NDF: 15008.3/15

Left Out: 792.090 $\pm$ 0.161 χ^2 /NDF: 9737.4/15

Right Out: 795.345 $\pm$ 0.213 χ^2 /NDF: 11559.8/17

Left In: 792.245 $\pm$ 0.158 χ^2 /NDF: 10043.0/15

Left: 792.169 $\pm$ 0.113 χ^2 /NDF: 19780.9/31

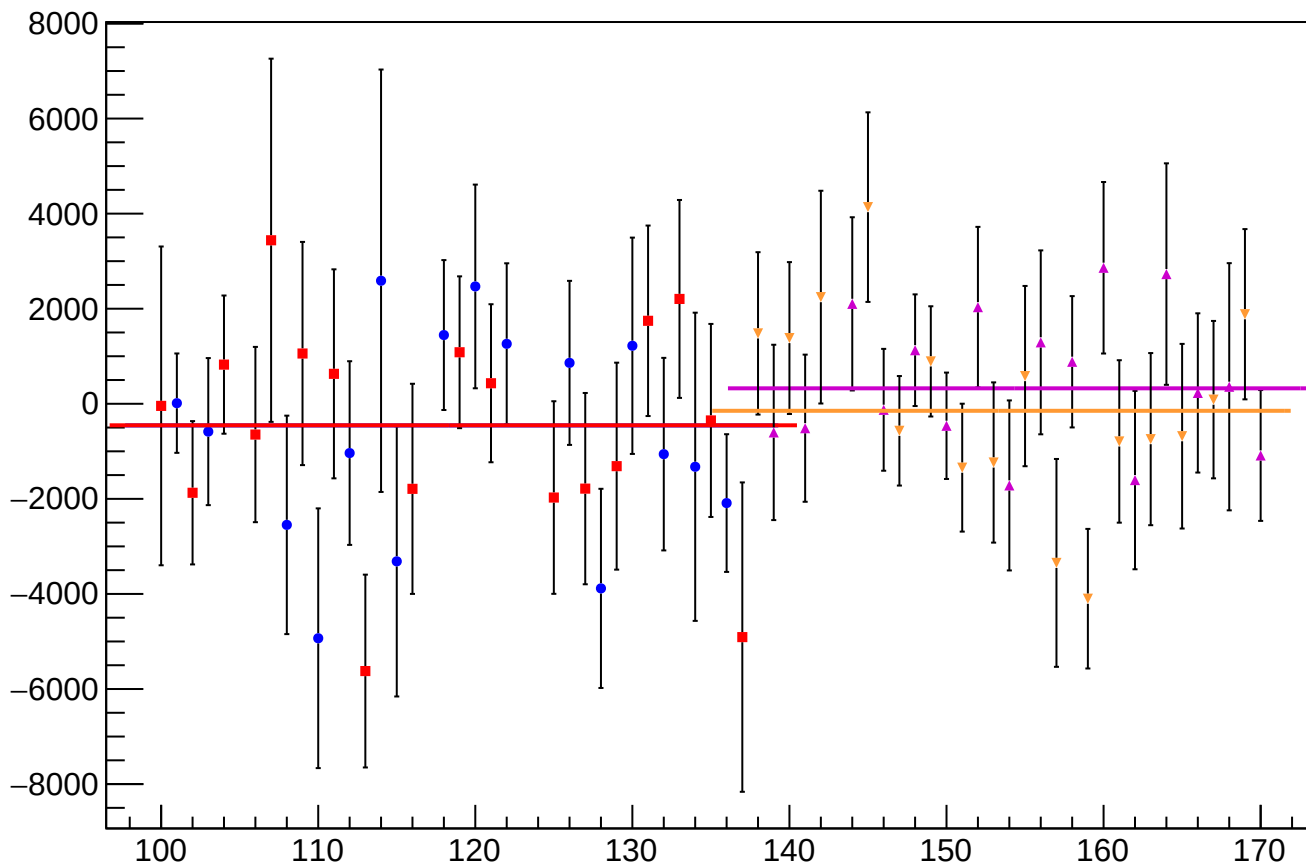
Right: 793.411 $\pm$ 0.152 χ^2 /NDF: 26737.3/33

In: 791.948 $\pm$ 0.128 χ^2 /NDF: 25061.4/31

Out: 793.278 $\pm$ 0.128 χ^2 /NDF: 21446.1/33

All: 792.611 $\pm$ 0.091 χ^2 /NDF: 46561.3/65

asym_us_avg_correction_mean vs Slug, Sign Corrected



Right In: -455.675 $\pm$ 464.232 χ^2/NDF : 14.9/15

Left Out: -147.608 $\pm$ 403.940 χ^2/NDF : 20.9/15

Right Out: -452.644 $\pm$ 472.760 χ^2/NDF : 17.3/17

Left In: 325.031 $\pm$ 395.040 χ^2/NDF : 10.5/15

Left: 93.976 $\pm$ 282.430 χ^2/NDF : 32.1/31

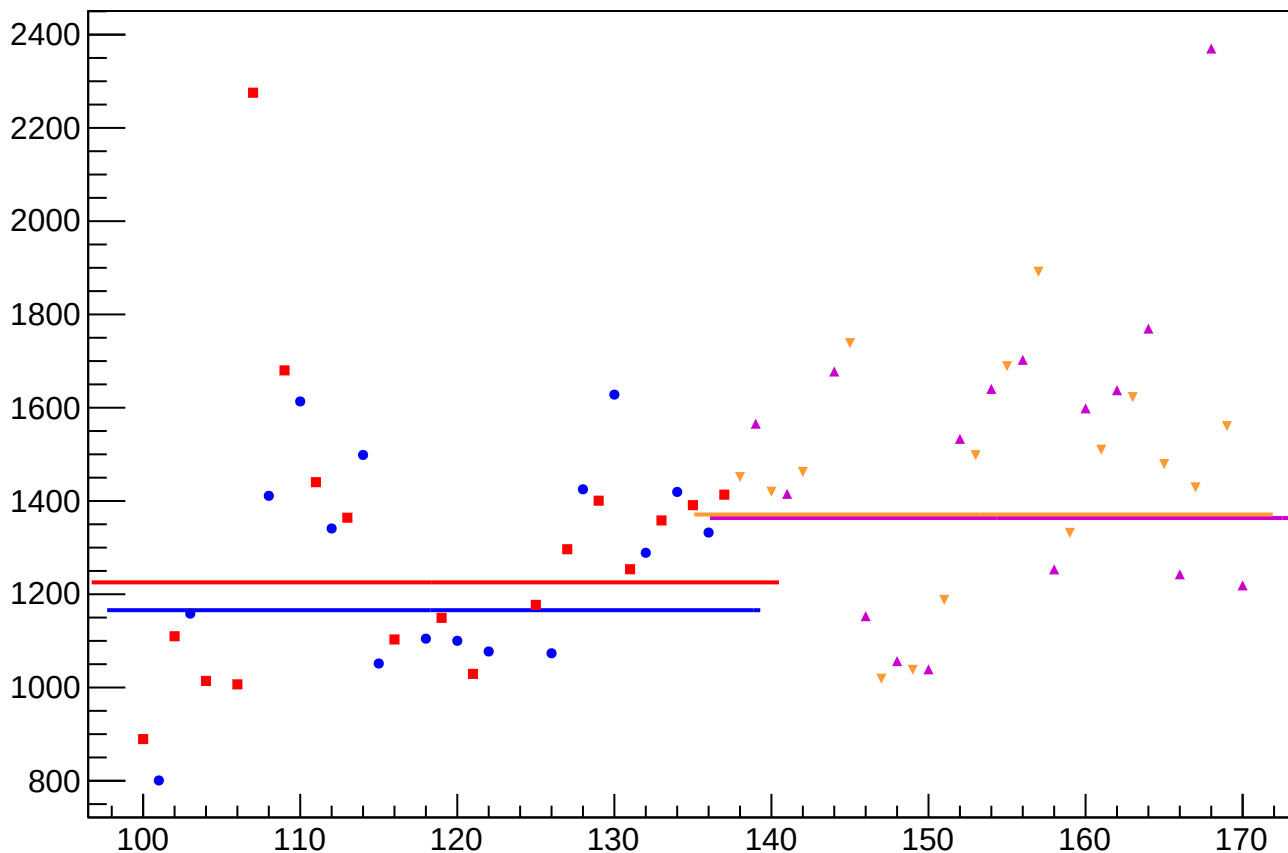
Right: -454.187 $\pm$ 331.236 χ^2/NDF : 32.2/33

In: -2.862 $\pm$ 300.855 χ^2/NDF : 27.0/31

Out: -276.328 $\pm$ 307.106 χ^2/NDF : 38.5/33

All: -136.783 $\pm$ 214.912 χ^2/NDF : 65.9/65

asym_us_avg_correction_rms vs Slug, Sign Corrected



Right In: 1165.812 $\pm$ 0.328 χ^2 /NDF: 526801.3/15

Left Out: 1371.009 $\pm$ 0.286 χ^2 /NDF: 731952.6/15

Right Out: 1225.448 $\pm$ 0.334 χ^2 /NDF: 440420.8/17

Left In: 1363.464 $\pm$ 0.279 χ^2 /NDF: 1056470.2/15

Left: 1367.153 $\pm$ 0.200 χ^2 /NDF: 1788779.5/31

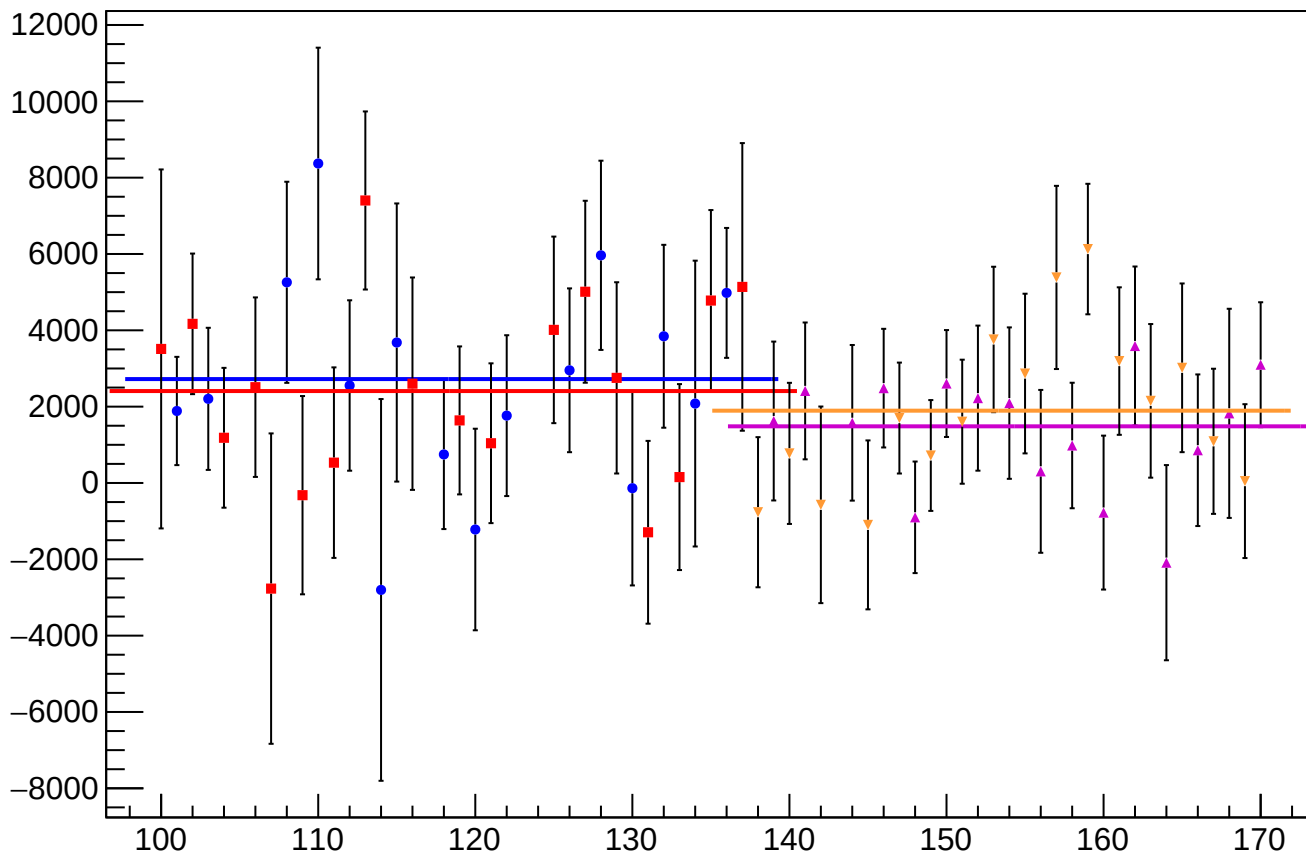
Right: 1195.087 $\pm$ 0.234 χ^2 /NDF: 983424.3/33

In: 1280.451 $\pm$ 0.213 χ^2 /NDF: 1793549.9/31

Out: 1309.585 $\pm$ 0.217 χ^2 /NDF: 1281965.5/33

All: 1294.719 $\pm$ 0.152 χ^2 /NDF: 3084700.1/65

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2722.309+/-567.154 χ^2/NDF : 14.6/15

Left Out: 1894.427+/-471.707 χ^2/NDF : 16.8/15

Right Out: 2408.446+/-568.977 χ^2/NDF : 16.3/17

Left In: 1484.199+/-462.035 χ^2/NDF : 10.0/15

Left: 1685.064+/-330.075 χ^2/NDF : 27.2/31

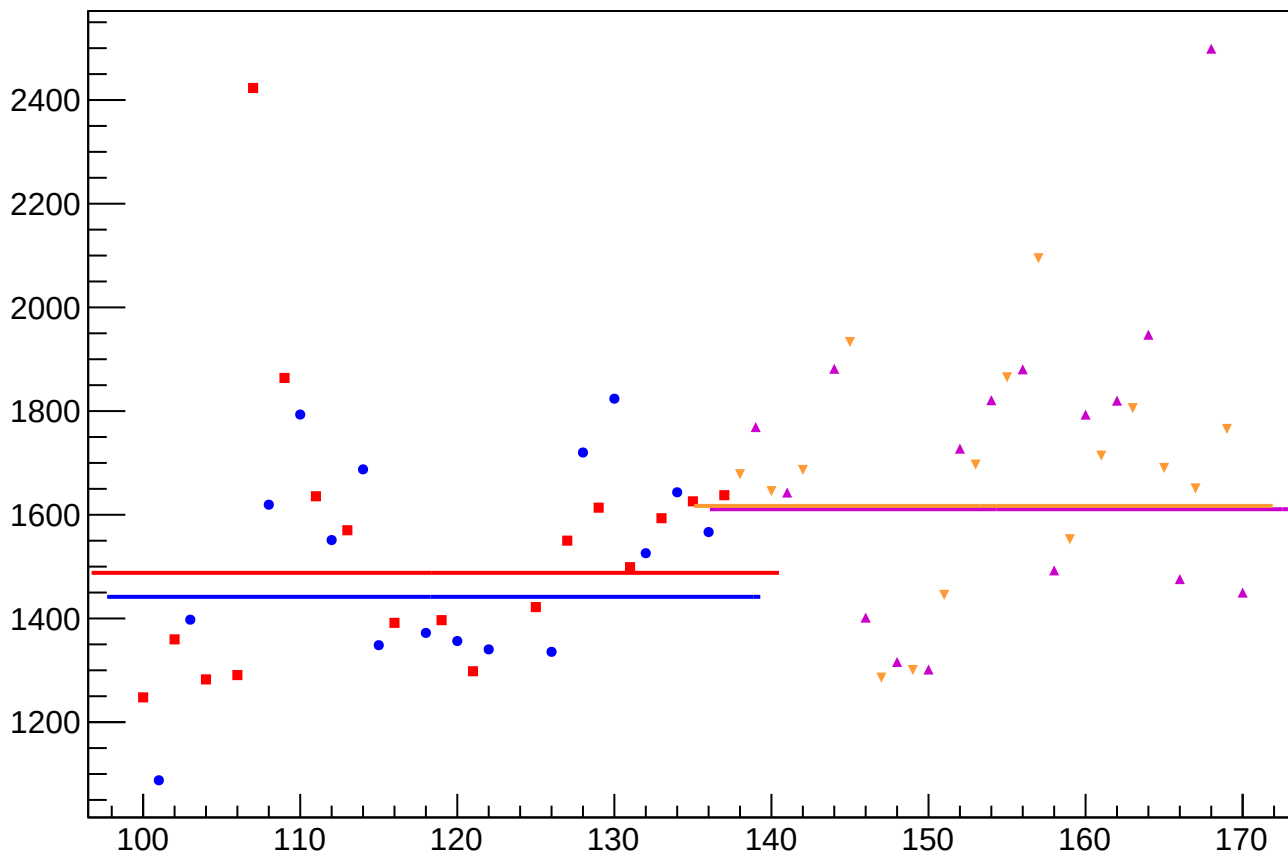
Right: 2565.881+/-401.681 χ^2/NDF : 31.0/33

In: 1978.103+/-358.214 χ^2/NDF : 27.4/31

Out: 2103.808+/-363.140 χ^2/NDF : 33.6/33

All: 2040.097+/-255.019 χ^2/NDF : 61.0/65

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1441.720+/-0.401 χ^2/NDF : 275902.8/15

Left Out: 1617.114+/-0.334 χ^2/NDF : 415867.8/15

Right Out: 1488.026+/-0.402 χ^2/NDF : 256140.4/17

Left In: 1610.719+/-0.327 χ^2/NDF : 644745.4/15

Left: 1613.850+/-0.233 χ^2/NDF : 1060800.8/31

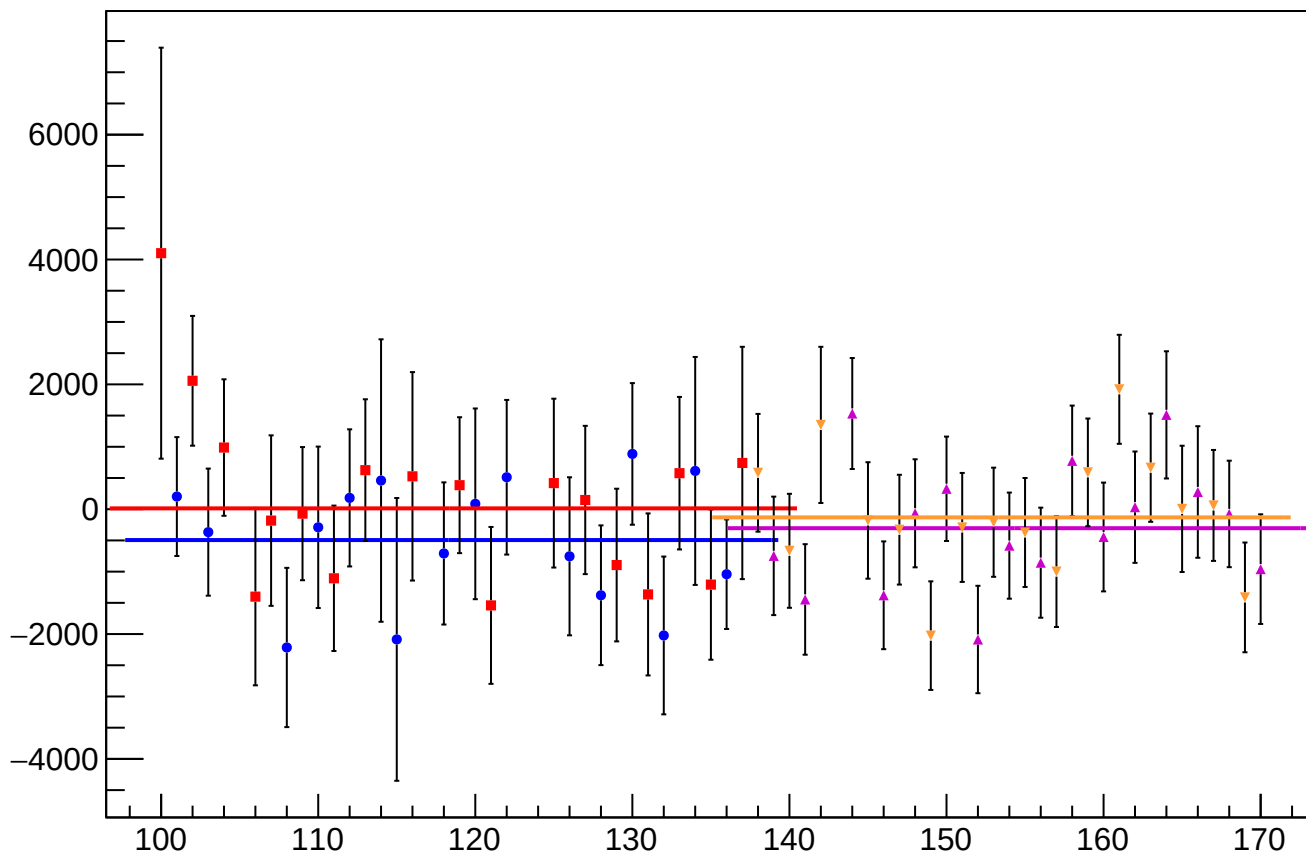
Right: 1464.799+/-0.284 χ^2/NDF : 538687.7/33

In: 1543.303+/-0.253 χ^2/NDF : 1027388.9/31

Out: 1564.531+/-0.257 χ^2/NDF : 733020.6/33

All: 1553.772+/-0.180 χ^2/NDF : 1763873.4/65

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -494.223+/-304.644 χ^2/NDF : 8.7/15

Left Out: -131.051+/-226.738 χ^2/NDF :17.4/15

Right Out: 13.512+/-297.736 χ^2/NDF : 13.4/17

Left In: -304.132+/-222.688 χ^2/NDF :18.9/15

Left: -219.151+/-158.877 χ^2/NDF : 36.6/31

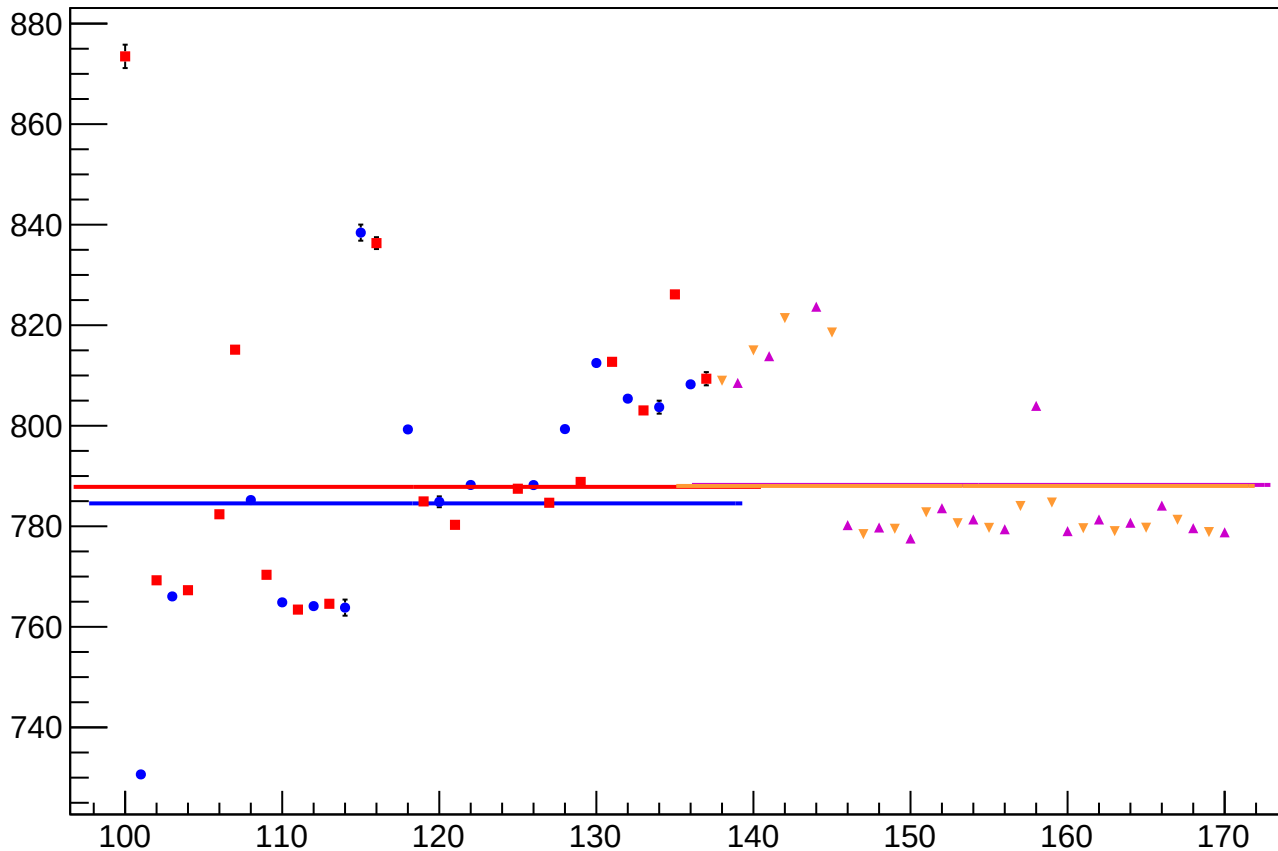
Right: -234.534+/-212.932 χ^2/NDF : 23.4/33

In: -370.331+/-179.778 χ^2/NDF :27.8/31

Out: -77.987+/-180.386 χ^2/NDF :30.9/33

All: -224.653+/-127.337 χ^2/NDF : 60.1/65

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 784.558 $\pm$ 0.215 χ^2 /NDF: 13677.7/15

Left Out: 788.028 $\pm$ 0.160 χ^2 /NDF: 8060.6/15

Right Out: 787.844 $\pm$ 0.211 χ^2 /NDF: 10909.0/17

Left In: 788.233 $\pm$ 0.157 χ^2 /NDF: 8391.7/15

Left: 788.132 $\pm$ 0.112 χ^2 /NDF: 16453.1/31

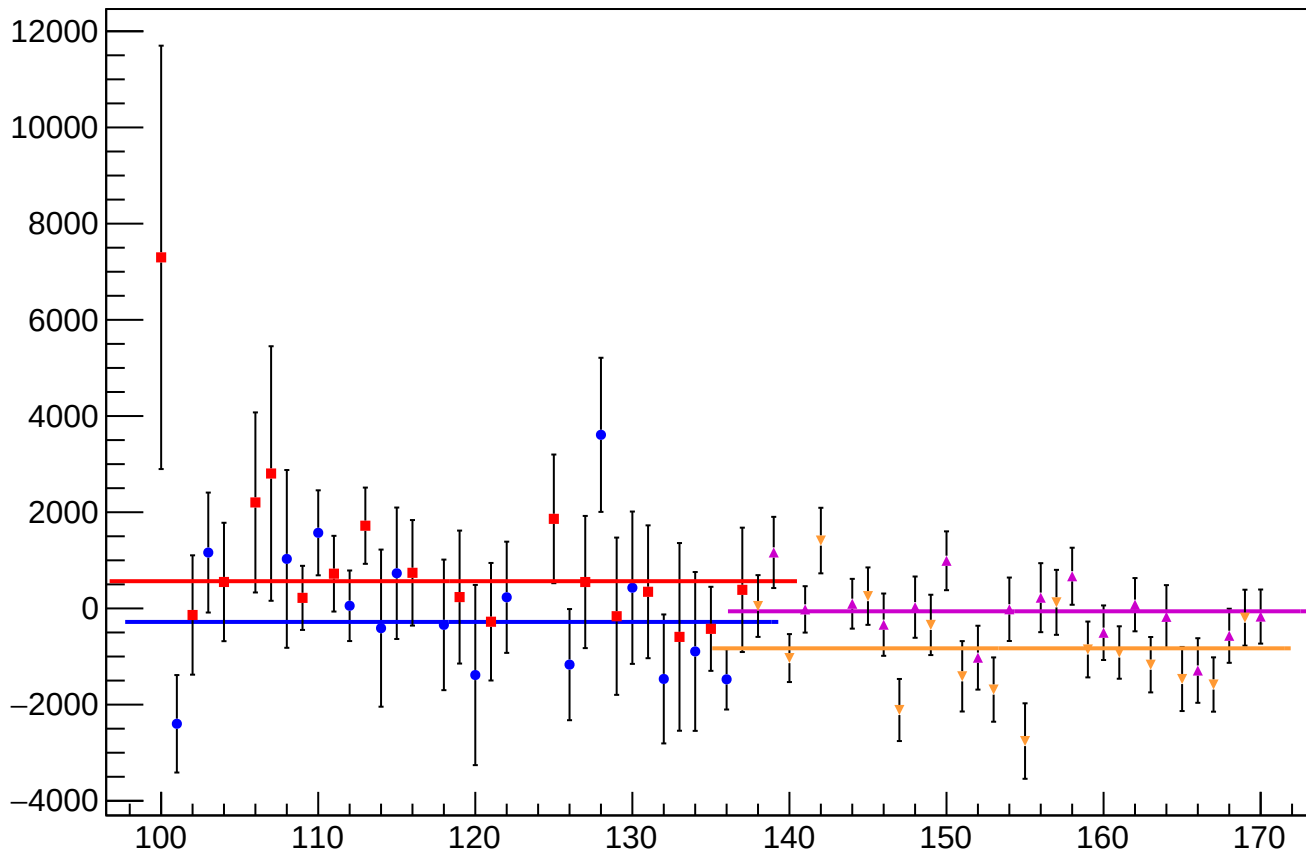
Right: 786.239 $\pm$ 0.151 χ^2 /NDF: 24705.7/33

In: 786.953 $\pm$ 0.127 χ^2 /NDF: 22259.0/31

Out: 787.961 $\pm$ 0.128 χ^2 /NDF: 18970.1/33

All: 787.455 $\pm$ 0.090 χ^2 /NDF: 41260.4/65

asym_us_dd_correction_mean vs Slug, Sign Corrected



Right In: -280.632 $\pm$ 282.501 χ^2 /NDF: 23.1/15

Left Out: -829.381 $\pm$ 154.365 χ^2 /NDF:35.3/15

Right Out: 566.224 $\pm$ 272.883 χ^2 /NDF: 9.9/17

Left In: -59.740 $\pm$ 150.848 χ^2 /NDF:14.7/15

Left: -435.694 $\pm$ 107.888 χ^2 /NDF: 62.7/31

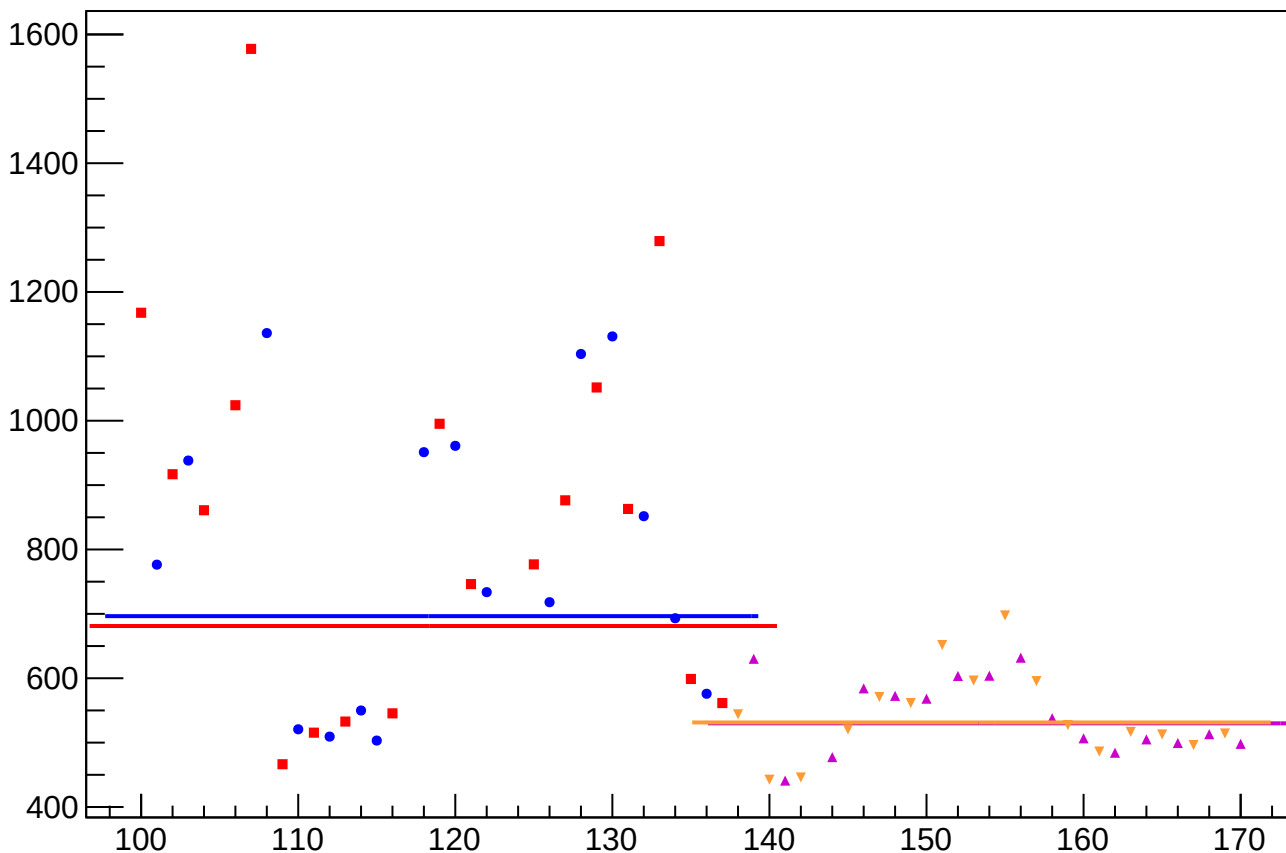
Right: 157.456 $\pm$ 196.270 χ^2 /NDF: 37.7/33

In: -108.749 $\pm$ 133.066 χ^2 /NDF:38.3/31

Out: -491.056 $\pm$ 134.358 χ^2 /NDF:65.0/33

All: -298.056 $\pm$ 94.545 χ^2 /NDF: 107.4/65

asym_us_dd_correction_rms vs Slug, Sign Corrected



Right In: 696.462 $\pm$ 0.200 χ^2 /NDF: 959490.0/15

Left Out: 531.339 $\pm$ 0.109 χ^2 /NDF: 315516.2/15

Right Out: 681.127 $\pm$ 0.193 χ^2 /NDF: 1352555.6/17

Left In: 529.960 $\pm$ 0.107 χ^2 /NDF: 278809.8/15

Left: 530.633 $\pm$ 0.076 χ^2 /NDF: 594407.6/31

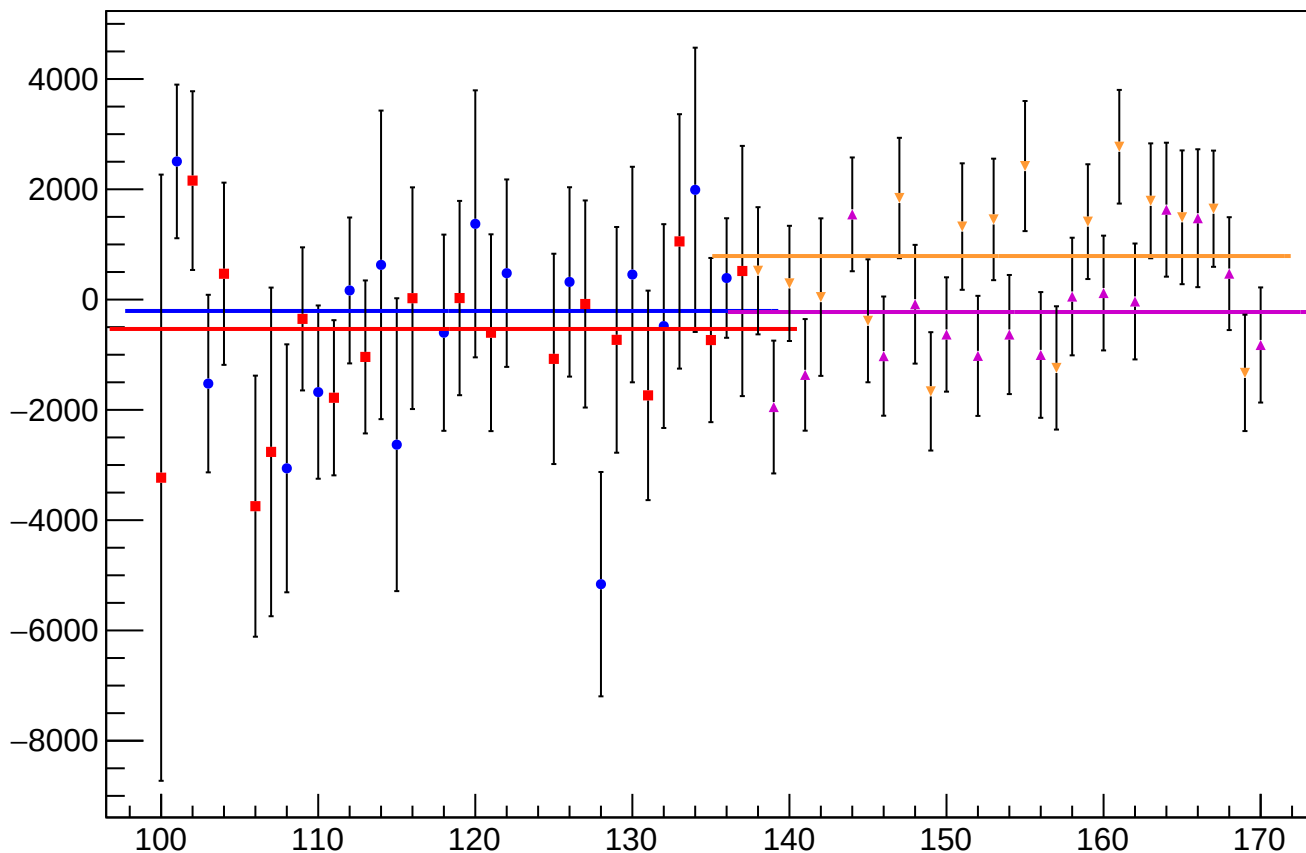
Right: 688.529 $\pm$ 0.139 χ^2 /NDF: 2315094.2/33

In: 566.901 $\pm$ 0.094 χ^2 /NDF: 1778906.4/31

Out: 567.651 $\pm$ 0.095 χ^2 /NDF: 2124589.1/33

All: 567.272 $\pm$ 0.067 χ^2 /NDF: 3903526.9/65

asym_us_dd_mean vs Slug, Sign Corrected



Right In: -206.385 ± 433.774 χ^2/NDF : 15.8/15

Left Out: 789.749 ± 276.952 χ^2/NDF : 23.6/15

Right Out: -532.837 ± 427.128 χ^2/NDF : 8.1/17

Left In: -225.358 ± 270.946 χ^2/NDF : 13.3/15

Left: 271.069 ± 193.676 χ^2/NDF : 43.8/31

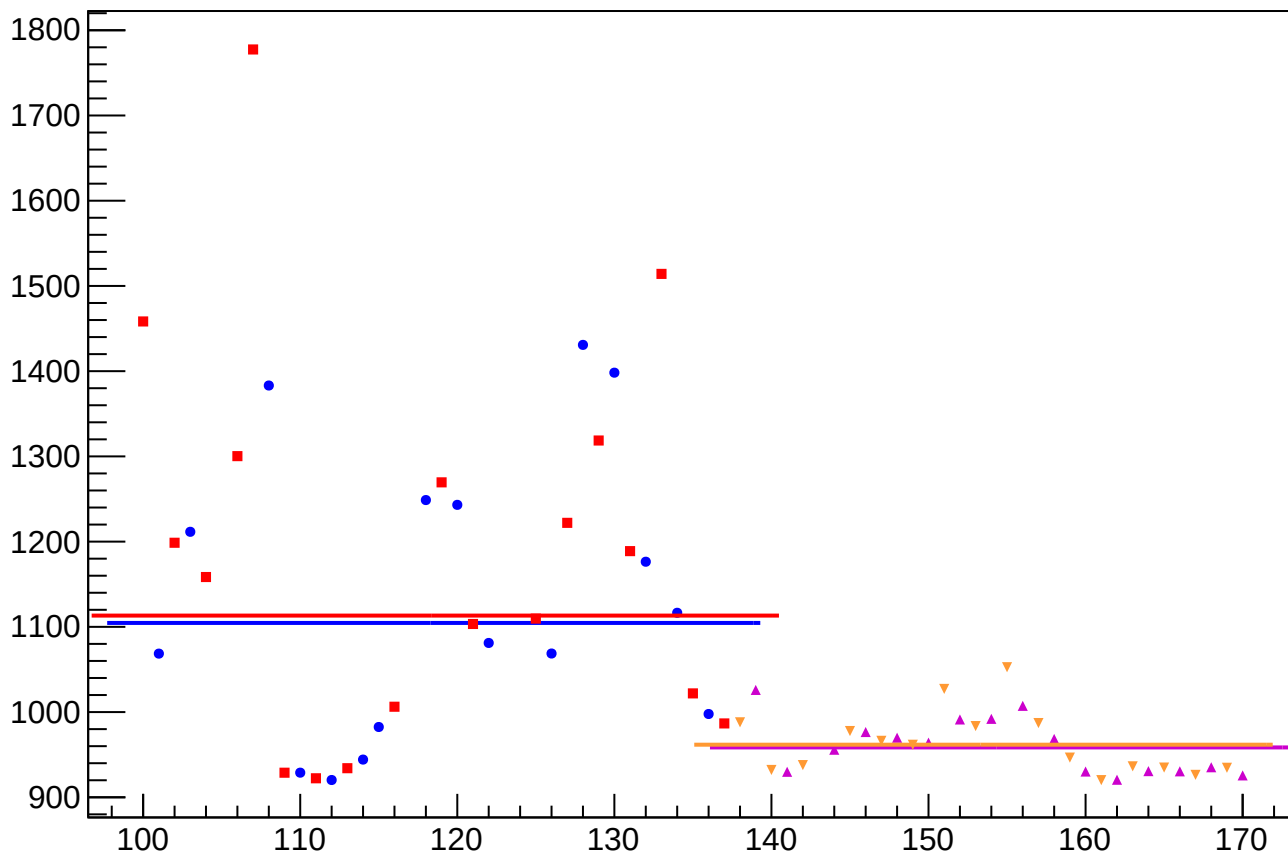
Right: -372.131 ± 304.348 χ^2/NDF : 24.2/33

In: -220.033 ± 229.801 χ^2/NDF : 29.1/31

Out: 398.279 ± 232.378 χ^2/NDF : 38.5/33

All: 85.675 ± 163.397 χ^2/NDF : 71.2/65

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1104.596 $\pm$ 0.307 χ^2 /NDF: 255488.3/15

Left Out: 961.724 $\pm$ 0.196 χ^2 /NDF:33279.1/15

Right Out: 1113.215 $\pm$ 0.302 χ^2 /NDF: 362982.2/17

Left In: 958.513 $\pm$ 0.192 χ^2 /NDF:25459.8/15

Left: 960.083 $\pm$ 0.137 χ^2 /NDF: 58876.3/31

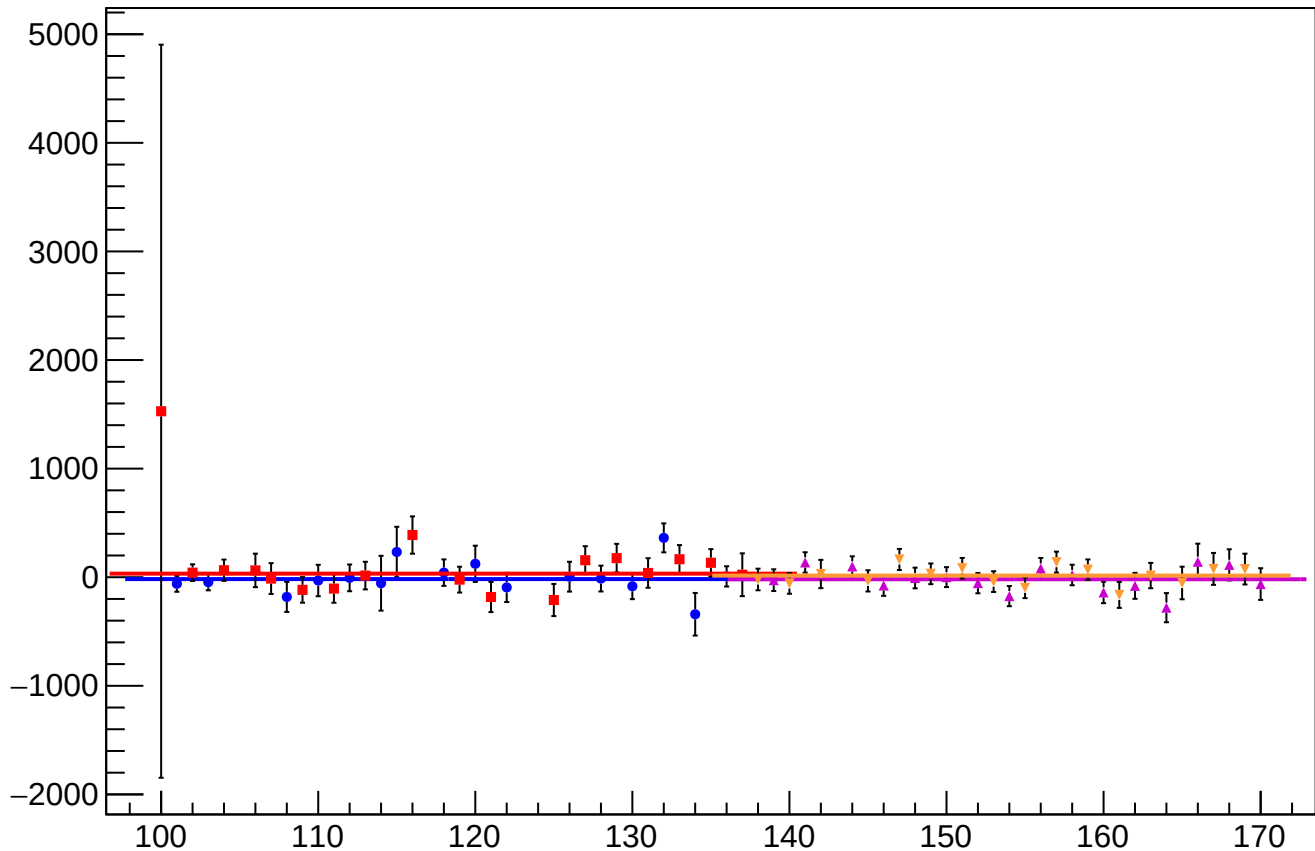
Right: 1108.972 $\pm$ 0.215 χ^2 /NDF: 618871.4/33

In: 999.512 $\pm$ 0.162 χ^2 /NDF:444118.7/31

Out: 1006.564 $\pm$ 0.164 χ^2 /NDF:573382.0/33

All: 1002.998 $\pm$ 0.116 χ^2 /NDF: 1018431.8/65

reg_asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -17.236 ± 29.988 χ^2/NDF : 15.6/15

Left Out: 15.351 ± 26.504 χ^2/NDF : 10.3/15

Right Out: 32.892 ± 30.446 χ^2/NDF : 16.5/17

Left In: -18.699 ± 26.010 χ^2/NDF : 16.4/15

Left: -1.994 ± 18.564 χ^2/NDF : 27.5/31

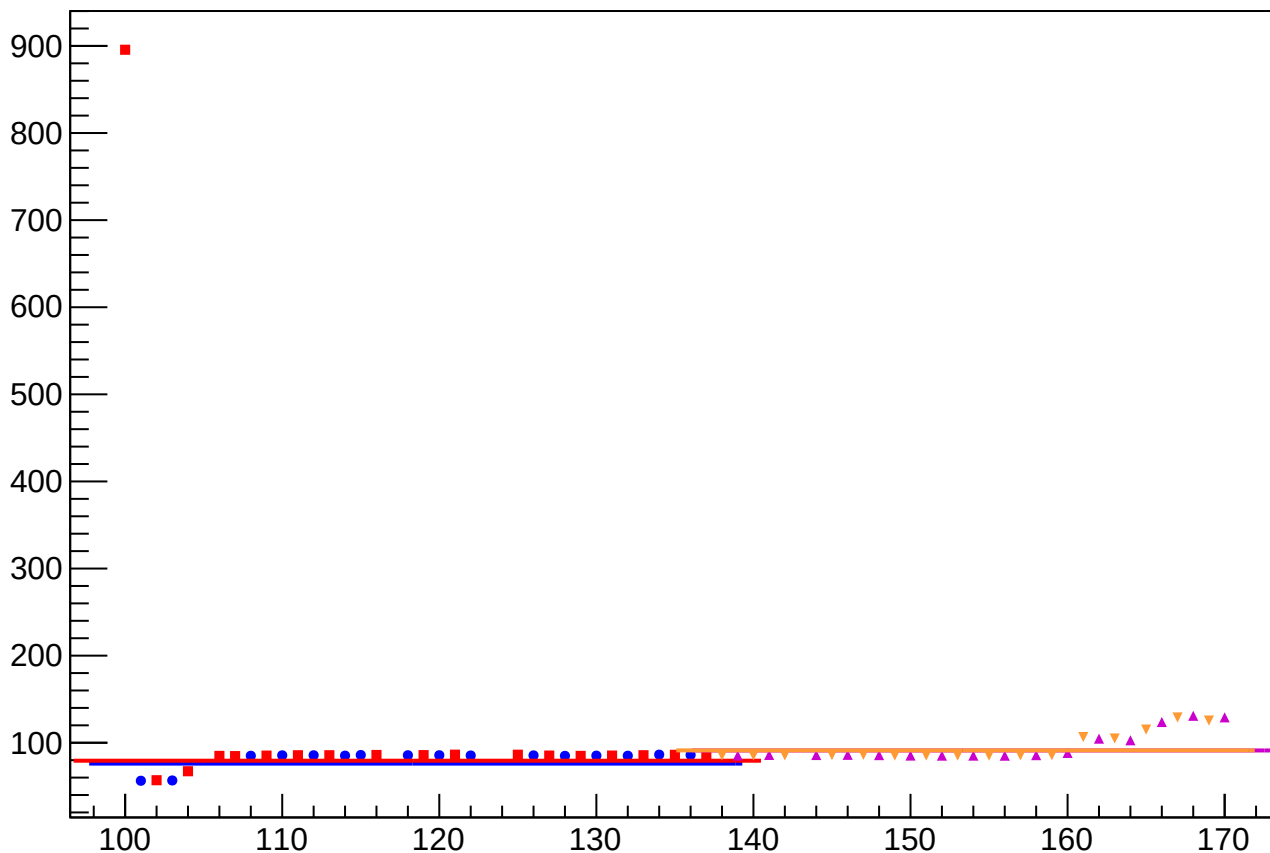
Right: 7.447 ± 21.365 χ^2/NDF : 33.5/33

In: -18.071 ± 19.649 χ^2/NDF : 32.0/31

Out: 22.912 ± 19.991 χ^2/NDF : 27.0/33

All: 2.067 ± 14.013 χ^2/NDF : 61.2/65

reg_asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.079 $\pm$ 0.021 χ^2 /NDF: 409170.8/15

Left Out: 91.246 $\pm$ 0.019 χ^2 /NDF: 435592.9/15

Right Out: 79.390 $\pm$ 0.022 χ^2 /NDF: 378526.1/17

Left In: 91.145 $\pm$ 0.018 χ^2 /NDF: 478763.2/15

Left: 91.194 $\pm$ 0.013 χ^2 /NDF: 914371.0/31

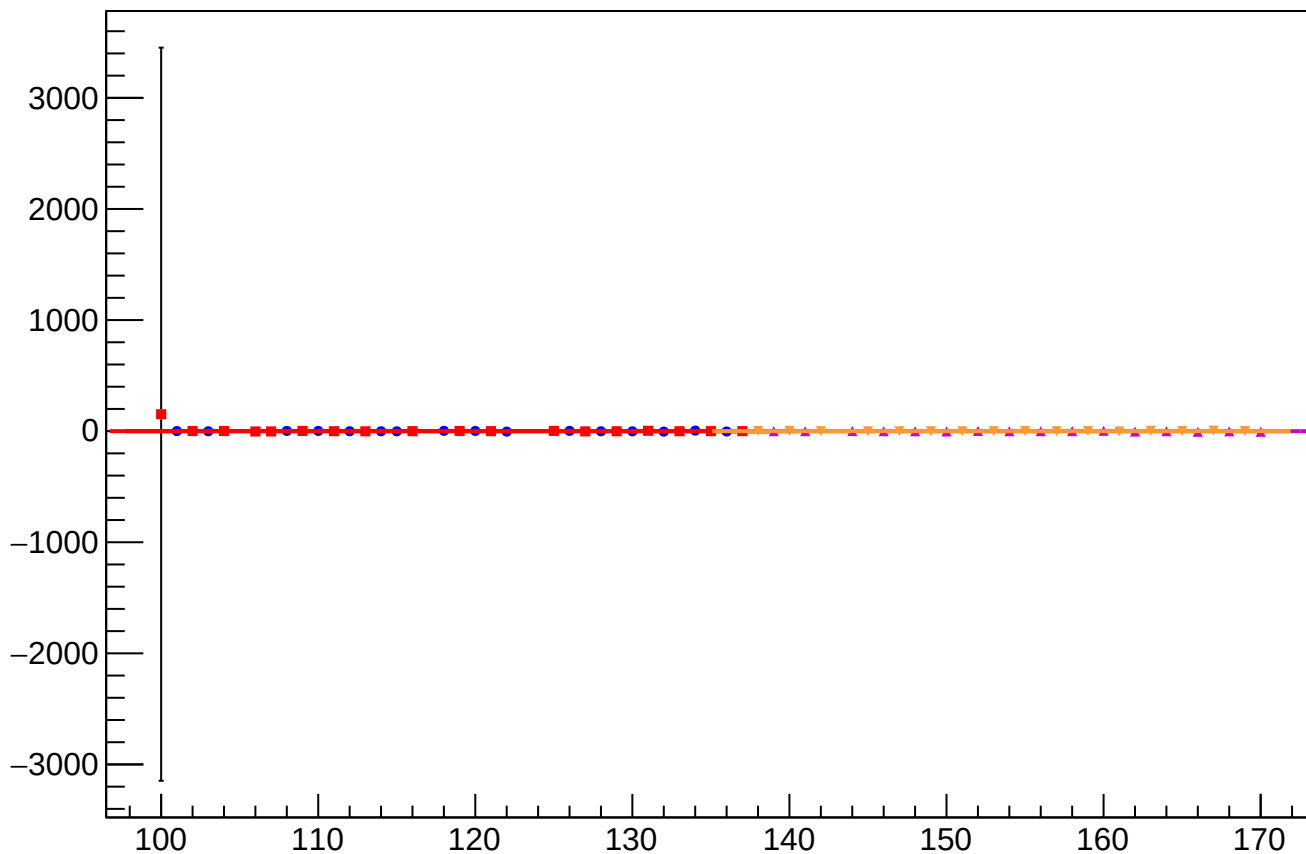
Right: 77.709 $\pm$ 0.015 χ^2 /NDF: 799700.2/33

In: 84.677 $\pm$ 0.014 χ^2 /NDF: 1176003.8/31

Out: 86.135 $\pm$ 0.014 χ^2 /NDF: 986661.9/33

All: 85.393 $\pm$ 0.010 χ^2 /NDF: 2168077.7/65

asym_ds_avg_correction_mean vs Slug, Sign Corrected



Right In: -0.281 ± 0.501 χ^2/NDF : 21.2/15

Left Out: 0.011 ± 0.453 χ^2/NDF : 12.7/15

Right Out: 0.078 ± 0.521 χ^2/NDF : 9.0/17

Left In: -0.433 ± 0.466 χ^2/NDF : 19.2/15

Left: -0.205 ± 0.325 χ^2/NDF : 32.3/31

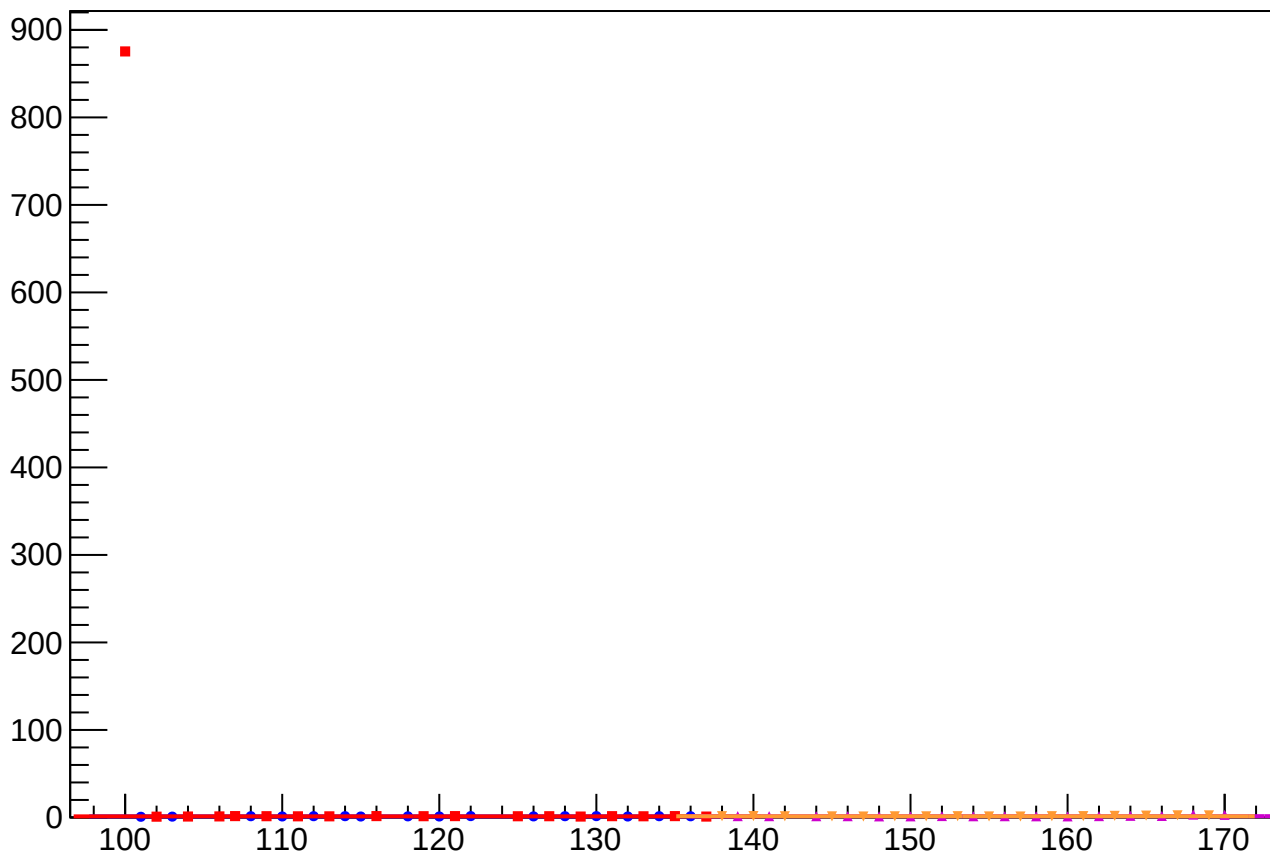
Right: -0.108 ± 0.361 χ^2/NDF : 30.4/33

In: -0.363 ± 0.341 χ^2/NDF : 40.4/31

Out: 0.040 ± 0.342 χ^2/NDF : 21.7/33

All: -0.162 ± 0.242 χ^2/NDF : 62.8/65

asym_ds_avg_correction_rms vs Slug, Sign Corrected



Right In: 1.152+/-0.000 χ^2/NDF : 514348.9/15

Left Out: 1.383+/-0.000 χ^2/NDF : 894028.8/15

Right Out: 1.247+/-0.000 χ^2/NDF : 517130.7/17

Left In: 1.475+/-0.000 χ^2/NDF : 967487.4/15

Left: 1.428+/-0.000 χ^2/NDF : 1901459.0/31

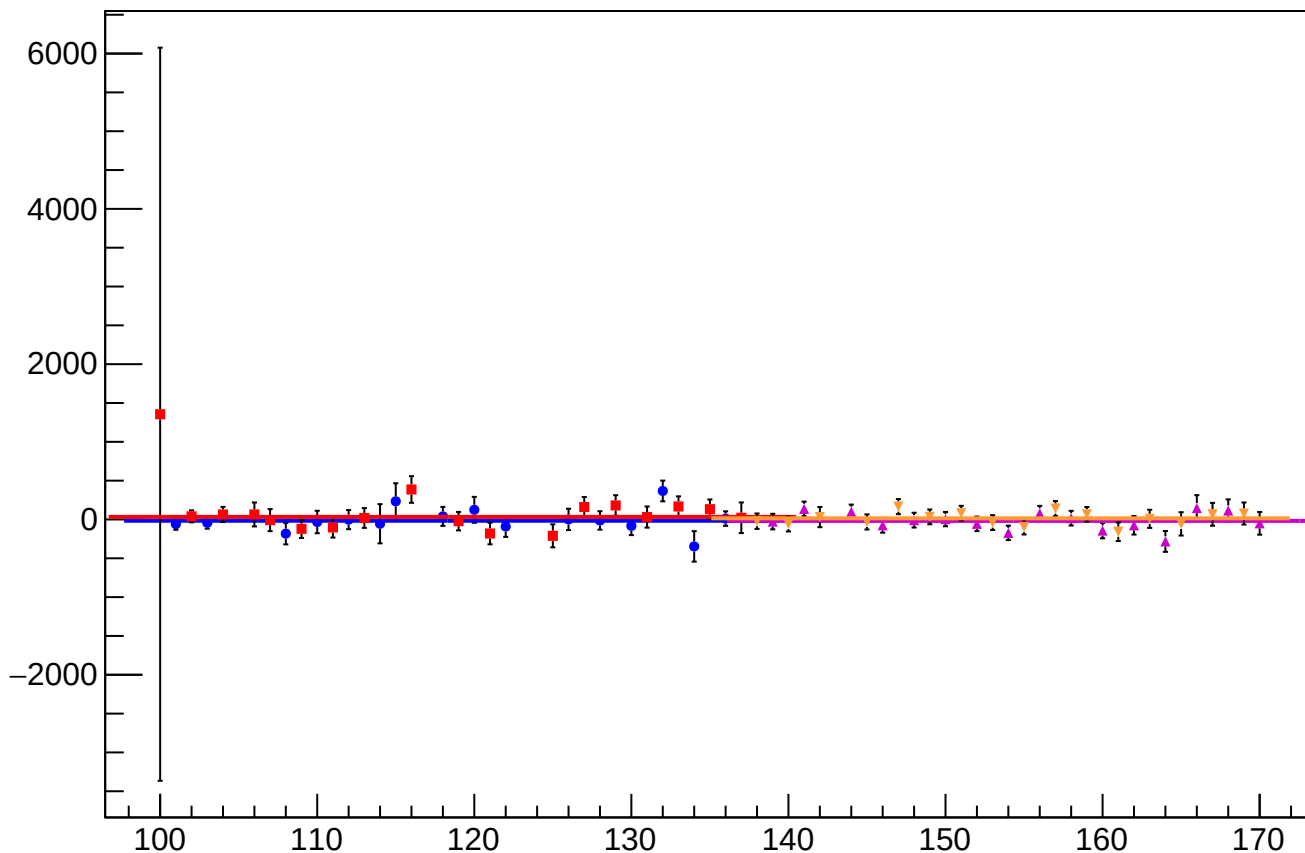
Right: 1.198+/-0.000 χ^2/NDF : 1065824.7/33

In: 1.325+/-0.000 χ^2/NDF : 1925793.4/31

Out: 1.324+/-0.000 χ^2/NDF : 1488533.9/33

All: 1.325+/-0.000 χ^2/NDF : 3414336.5/65

asym_ds_avg_mean vs Slug, Sign Corrected



Right In: -16.311 $\pm$ 29.996 χ^2 /NDF: 15.9/15

Left Out: 14.866 $\pm$ 26.512 χ^2 /NDF:10.2/15

Right Out: 33.114 $\pm$ 30.455 χ^2 /NDF: 16.5/17

Left In: -18.459 $\pm$ 26.018 χ^2 /NDF:16.4/15

Left: -2.110 $\pm$ 18.570 χ^2 /NDF: 27.4/31

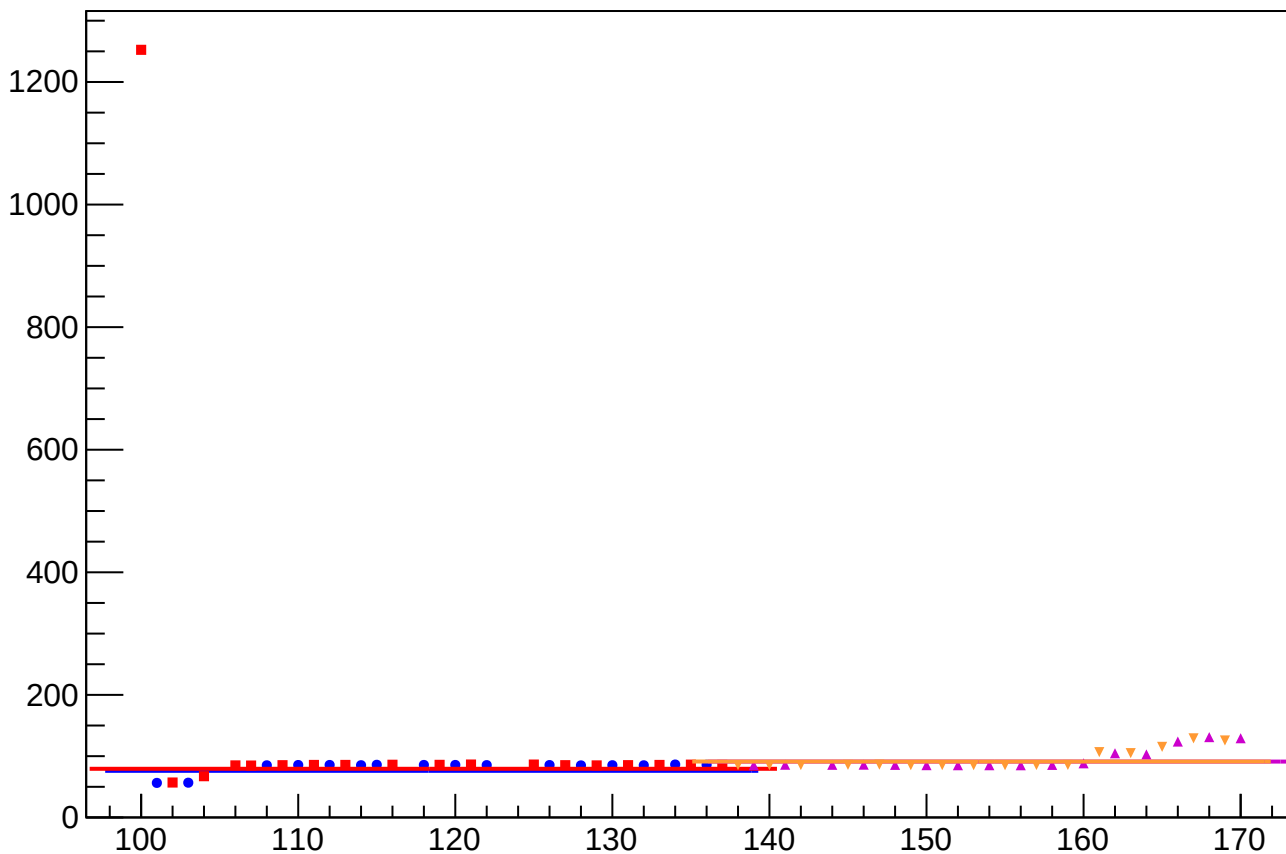
Right: 8.026 $\pm$ 21.371 χ^2 /NDF: 33.7/33

In: -17.537 $\pm$ 19.655 χ^2 /NDF:32.3/31

Out: 22.733 $\pm$ 19.996 χ^2 /NDF:27.0/33

All: 2.251 $\pm$ 14.017 χ^2 /NDF: 61.3/65

asym_ds_avg_rms vs Slug, Sign Corrected



Right In: 76.099+/-0.021 χ^2/NDF : 409200.9/15

Left Out: 91.273+/-0.019 χ^2/NDF : 436332.9/15

Right Out: 79.393+/-0.022 χ^2/NDF : 385048.8/17

Left In: 91.172+/-0.018 χ^2/NDF : 479624.5/15

Left: 91.221+/-0.013 χ^2/NDF : 915972.2/31

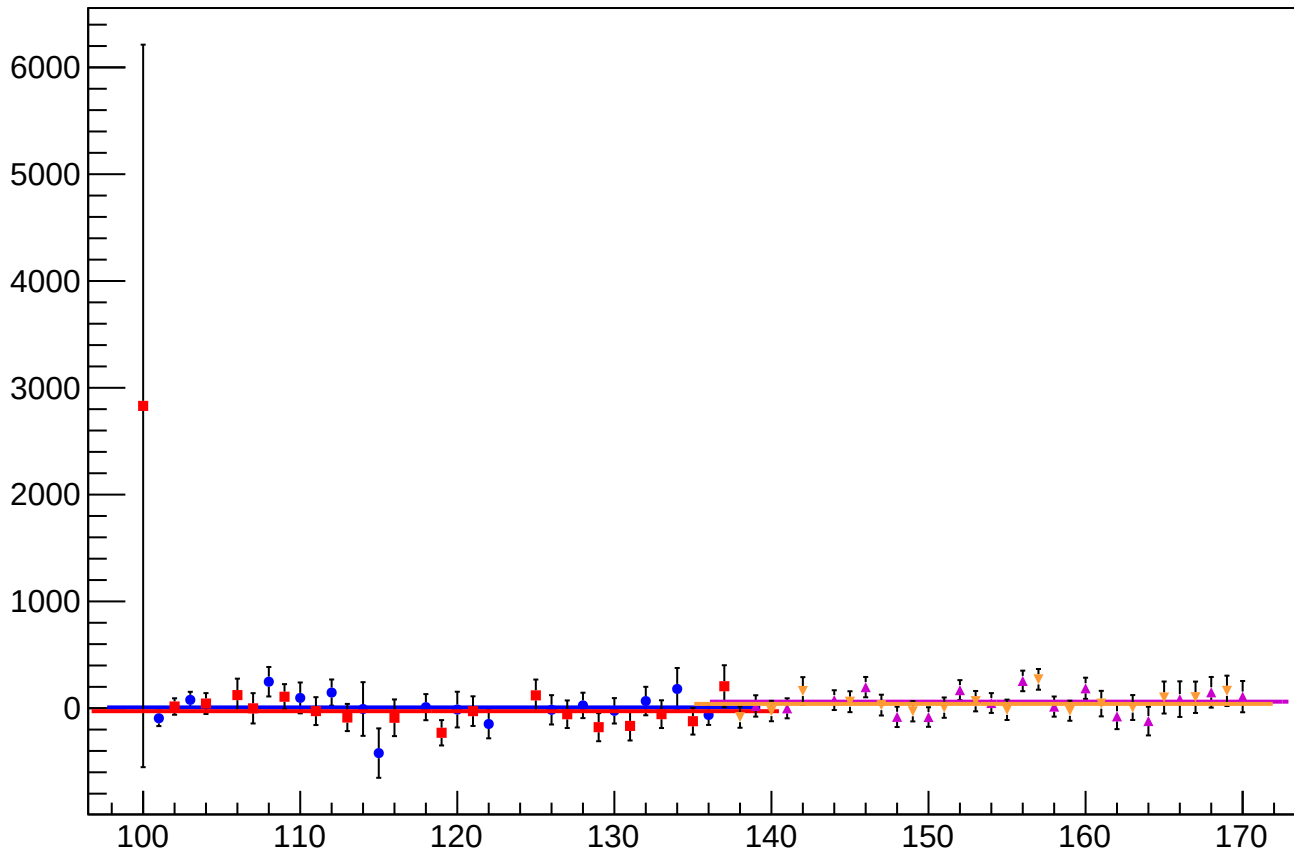
Right: 77.721+/-0.015 χ^2/NDF : 806127.4/33

In: 84.700+/-0.014 χ^2/NDF : 1177012.1/31

Out: 86.151+/-0.014 χ^2/NDF : 994503.0/33

All: 85.413+/-0.010 χ^2/NDF : 2176871.2/65

reg_asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 7.460 ± 29.969 χ^2/NDF : 13.9/15

Left Out: 40.480 ± 26.502 χ^2/NDF : 11.3/15

Right Out: -27.920 ± 30.428 χ^2/NDF : 12.5/17

Left In: 61.264 ± 26.012 χ^2/NDF : 18.3/15

Left: 51.066 ± 18.564 χ^2/NDF : 29.8/31

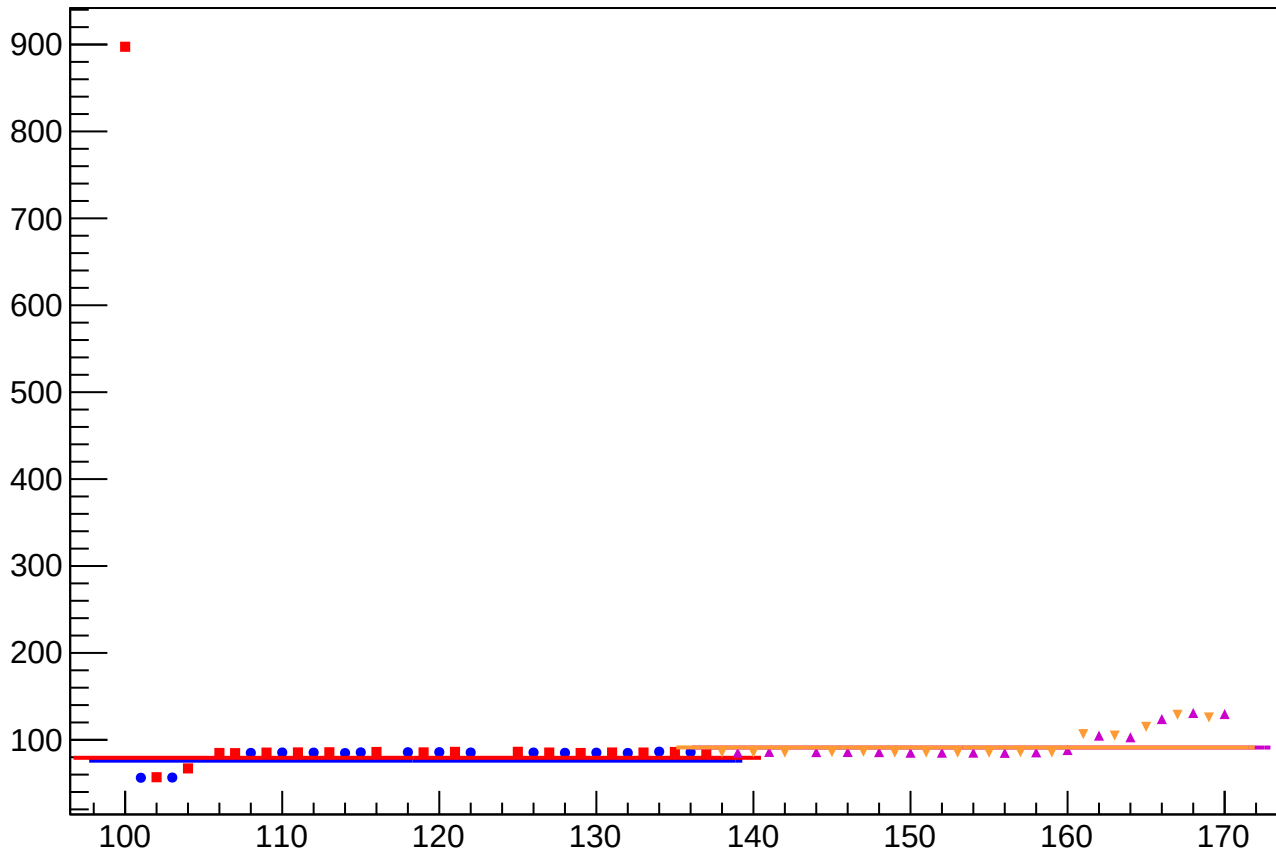
Right: -9.961 ± 21.352 χ^2/NDF : 27.1/33

In: 38.146 ± 19.644 χ^2/NDF : 34.0/31

Out: 10.974 ± 19.985 χ^2/NDF : 26.6/33

All: 24.793 ± 14.009 χ^2/NDF : 61.6/65

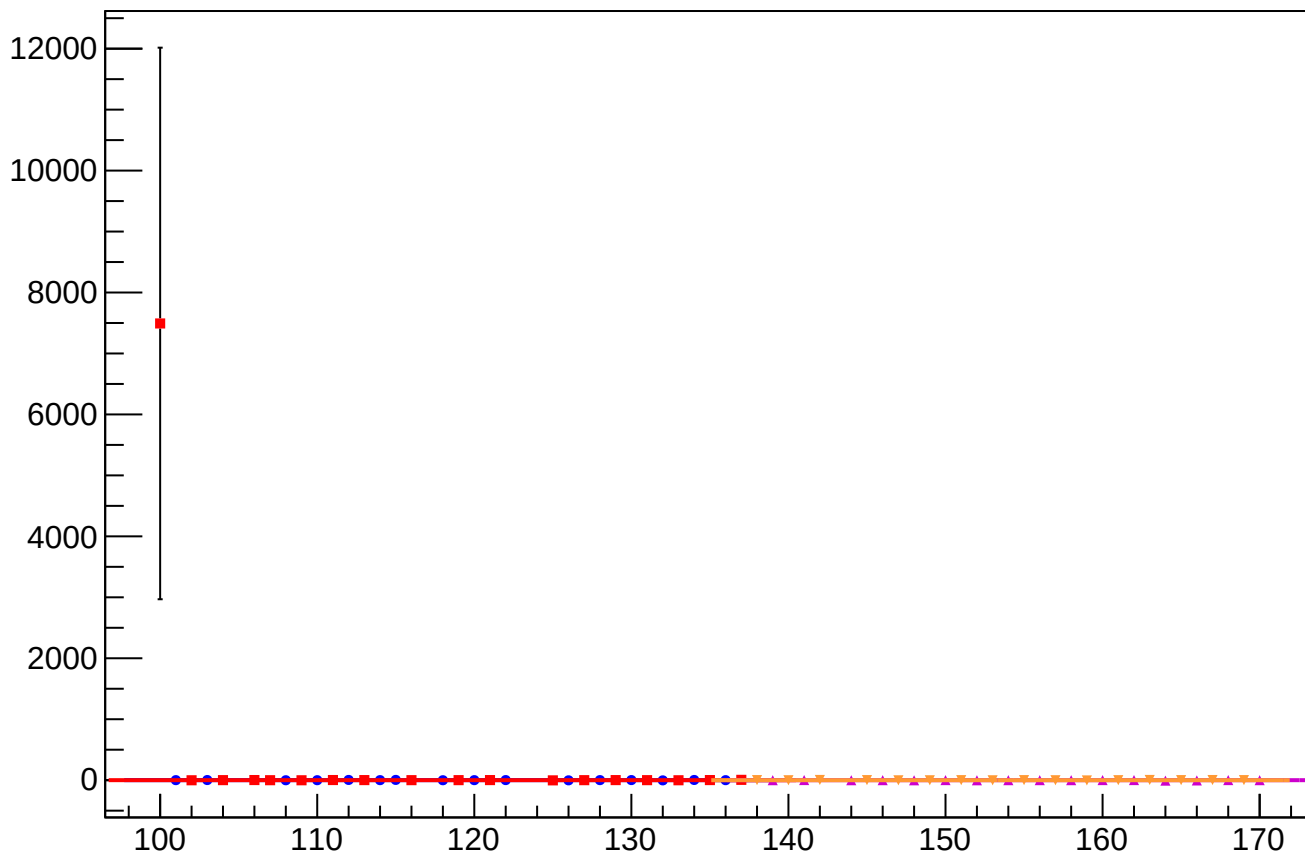
reg_asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.032 $\pm$ 0.021 χ^2 /NDF: 408917.7/15
Left Out: 91.241 $\pm$ 0.019 χ^2 /NDF: 435033.4/15
Right Out: 79.342 $\pm$ 0.022 χ^2 /NDF: 378371.9/17
Left In: 91.144 $\pm$ 0.018 χ^2 /NDF: 482465.2/15

Left: 91.192 $\pm$ 0.013 χ^2 /NDF: 917512.2/31
Right: 77.662 $\pm$ 0.015 χ^2 /NDF: 799302.8/33
In: 84.651 $\pm$ 0.014 χ^2 /NDF: 1181443.4/31
Out: 86.108 $\pm$ 0.014 χ^2 /NDF: 987340.5/33
All: 85.367 $\pm$ 0.010 χ^2 /NDF: 2174192.7/65

asym_ds_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.911 $\pm$ 0.532 χ^2 /NDF: 12.0/15

Left Out: -0.323 $\pm$ 0.466 χ^2 /NDF:16.5/15

Right Out: 0.314 $\pm$ 0.548 χ^2 /NDF: 12.6/17

Left In: 0.107 $\pm$ 0.464 χ^2 /NDF:14.8/15

Left: -0.107 $\pm$ 0.329 χ^2 /NDF: 31.7/31

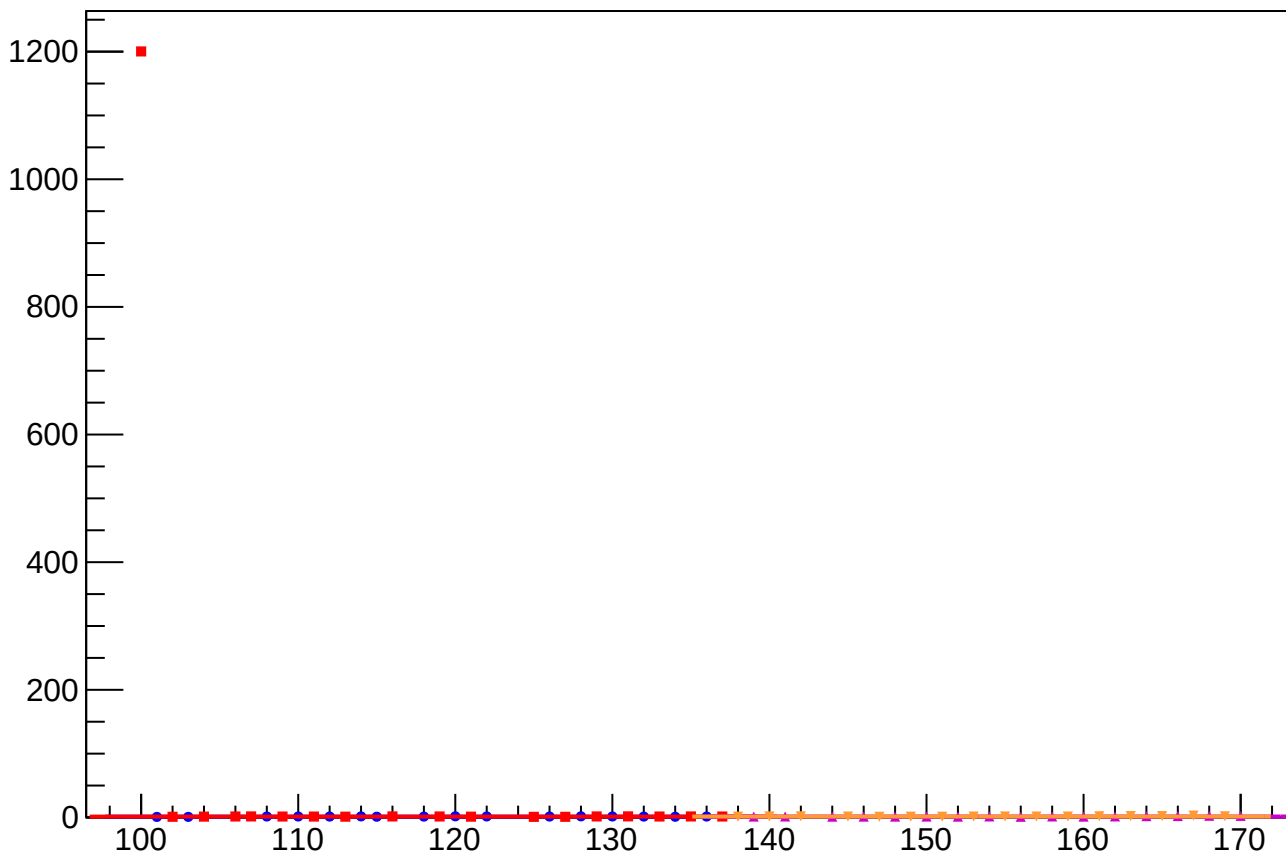
Right: 0.621 $\pm$ 0.382 χ^2 /NDF: 25.2/33

In: 0.454 $\pm$ 0.350 χ^2 /NDF:28.1/31

Out: -0.056 $\pm$ 0.355 χ^2 /NDF:29.9/33

All: 0.203 $\pm$ 0.249 χ^2 /NDF: 59.0/65

asym_ds_dd_correction_rms vs Slug, Sign Corrected



Right In: 1.238+/-0.000 χ^2/NDF : 657848.9/15

Left Out: 1.434+/-0.000 χ^2/NDF :1011683.0/15

Right Out: 1.317+/-0.000 χ^2/NDF : 521587.9/17

Left In: 1.459+/-0.000 χ^2/NDF :926384.5/15

Left: 1.447+/-0.000 χ^2/NDF : 1940838.5/31

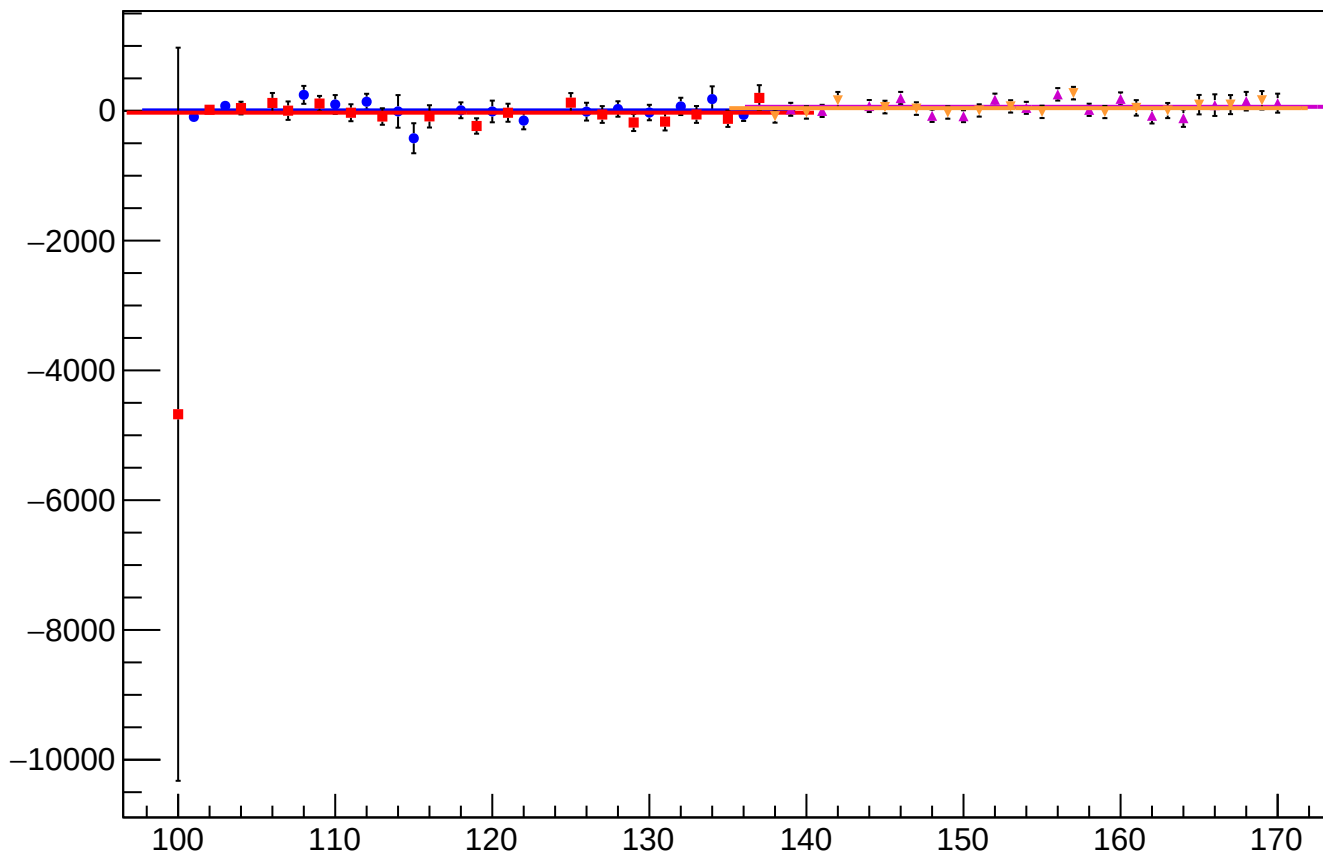
Right: 1.276+/-0.000 χ^2/NDF : 1201203.5/33

In: 1.363+/-0.000 χ^2/NDF :1780566.5/31

Out: 1.385+/-0.000 χ^2/NDF :1586083.4/33

All: 1.374+/-0.000 χ^2/NDF : 3370516.1/65

asym_ds_dd_mean vs Slug, Sign Corrected



Right In: 6.781 ± 29.977 χ^2/NDF : 13.8/15

Left Out: 41.033 ± 26.511 χ^2/NDF : 11.2/15

Right Out: -28.551 ± 30.437 χ^2/NDF : 12.7/17

Left In: 61.915 ± 26.020 χ^2/NDF : 17.9/15

Left: 51.669 ± 18.570 χ^2/NDF : 29.4/31

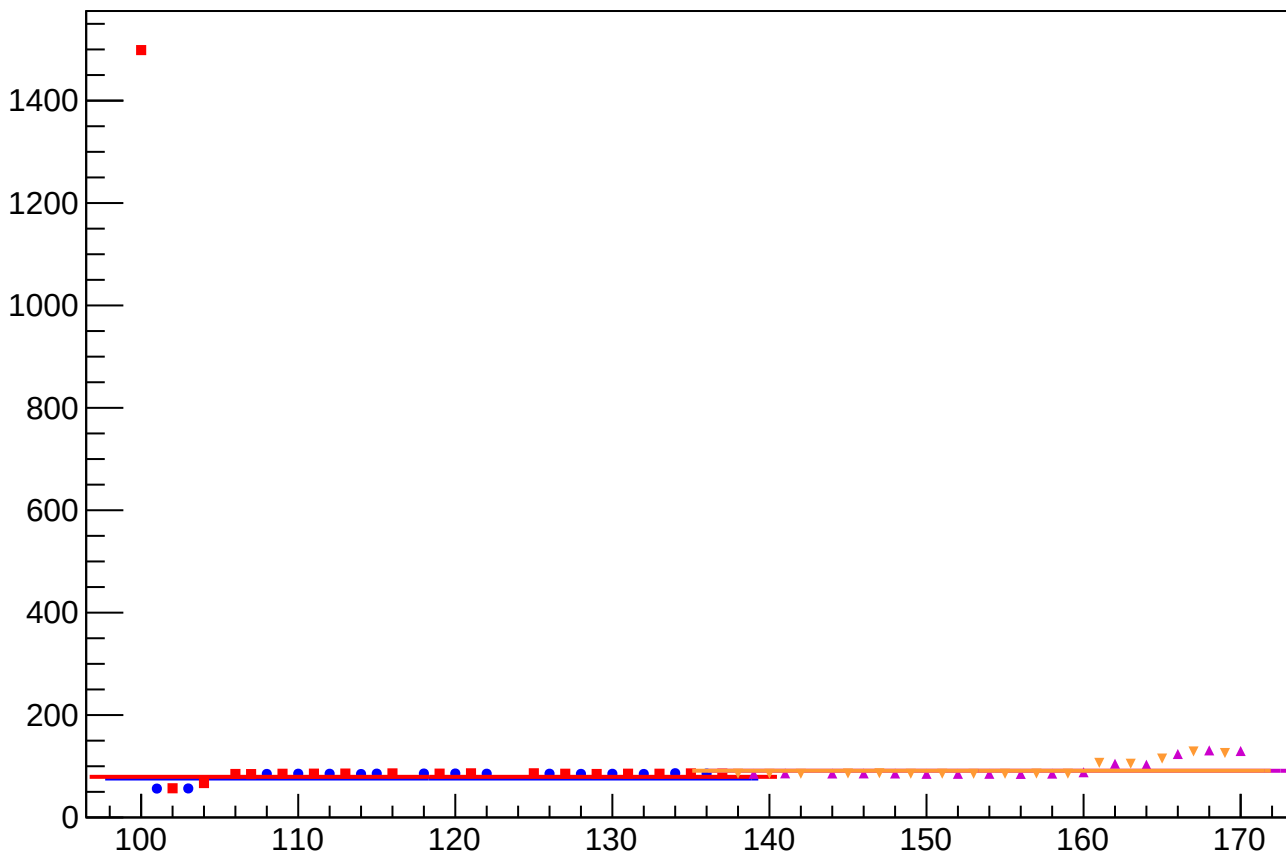
Right: -10.616 ± 21.358 χ^2/NDF : 27.2/33

In: 38.225 ± 19.650 χ^2/NDF : 33.7/31

Out: 11.016 ± 19.991 χ^2/NDF : 26.8/33

All: 24.854 ± 14.014 χ^2/NDF : 61.5/65

asym_ds_dd_rms vs Slug, Sign Corrected



Right In: 76.052+/-0.021 χ^2/NDF : 408962.1/15

Left Out: 91.268+/-0.019 χ^2/NDF : 435776.3/15

Right Out: 79.338+/-0.022 χ^2/NDF : 387631.3/17

Left In: 91.172+/-0.018 χ^2/NDF : 483269.0/15

Left: 91.219+/-0.013 χ^2/NDF : 919058.8/31

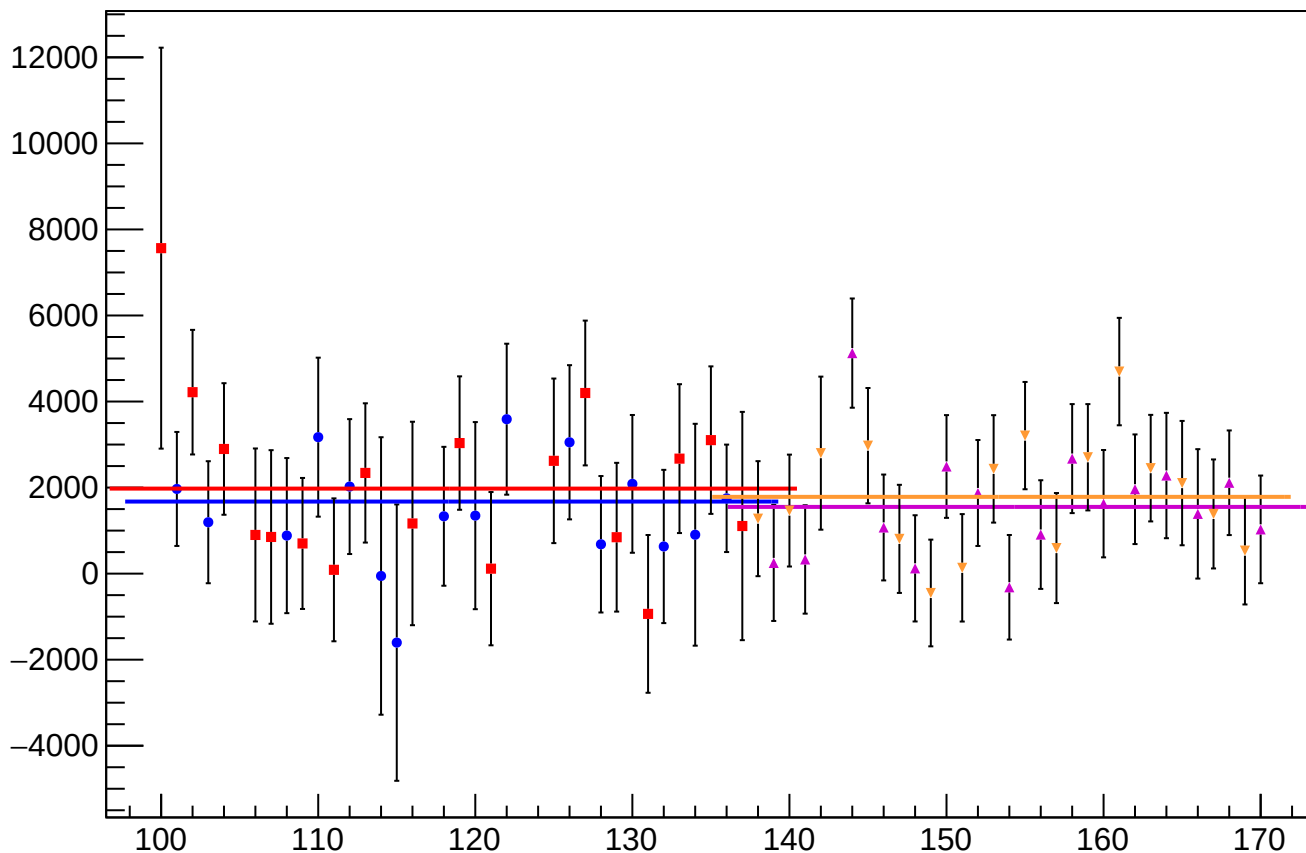
Right: 77.670+/-0.015 χ^2/NDF : 808427.1/33

In: 84.675+/-0.014 χ^2/NDF : 1182376.5/31

Out: 86.122+/-0.014 χ^2/NDF : 998118.7/33

All: 85.386+/-0.010 χ^2/NDF : 2185824.8/65

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1674.993 $\pm$ 430.597 χ^2/NDF : 5.1/15

Left Out: 1784.398 $\pm$ 323.860 χ^2/NDF : 16.8/15

Right Out: 1976.296 $\pm$ 422.405 χ^2/NDF : 14.0/17

Left In: 1550.860 $\pm$ 317.952 χ^2/NDF : 16.1/15

Left: 1665.479 $\pm$ 226.886 χ^2/NDF : 33.2/31

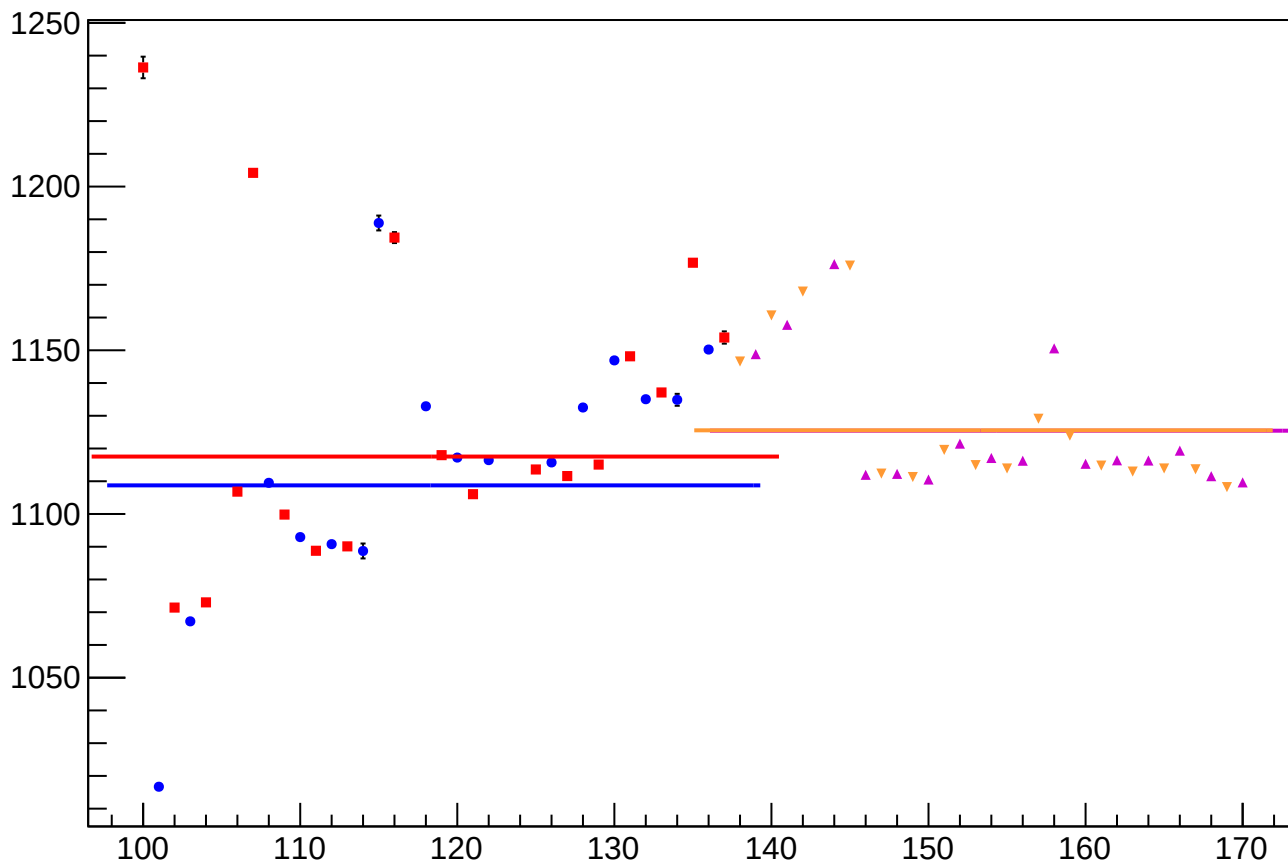
Right: 1828.538 $\pm$ 301.540 χ^2/NDF : 19.4/33

In: 1594.660 $\pm$ 255.779 χ^2/NDF : 21.3/31

Out: 1855.441 $\pm$ 257.012 χ^2/NDF : 30.9/33

All: 1724.423 $\pm$ 181.298 χ^2/NDF : 52.8/65

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1108.739 $\pm$ 0.304 χ^2 /NDF: 18080.7/15

Left Out: 1125.554 $\pm$ 0.229 χ^2 /NDF: 7821.4/15

Right Out: 1117.539 $\pm$ 0.299 χ^2 /NDF: 15515.2/17

Left In: 1125.436 $\pm$ 0.225 χ^2 /NDF: 7842.5/15

Left: 1125.494 $\pm$ 0.160 χ^2 /NDF: 15664.0/31

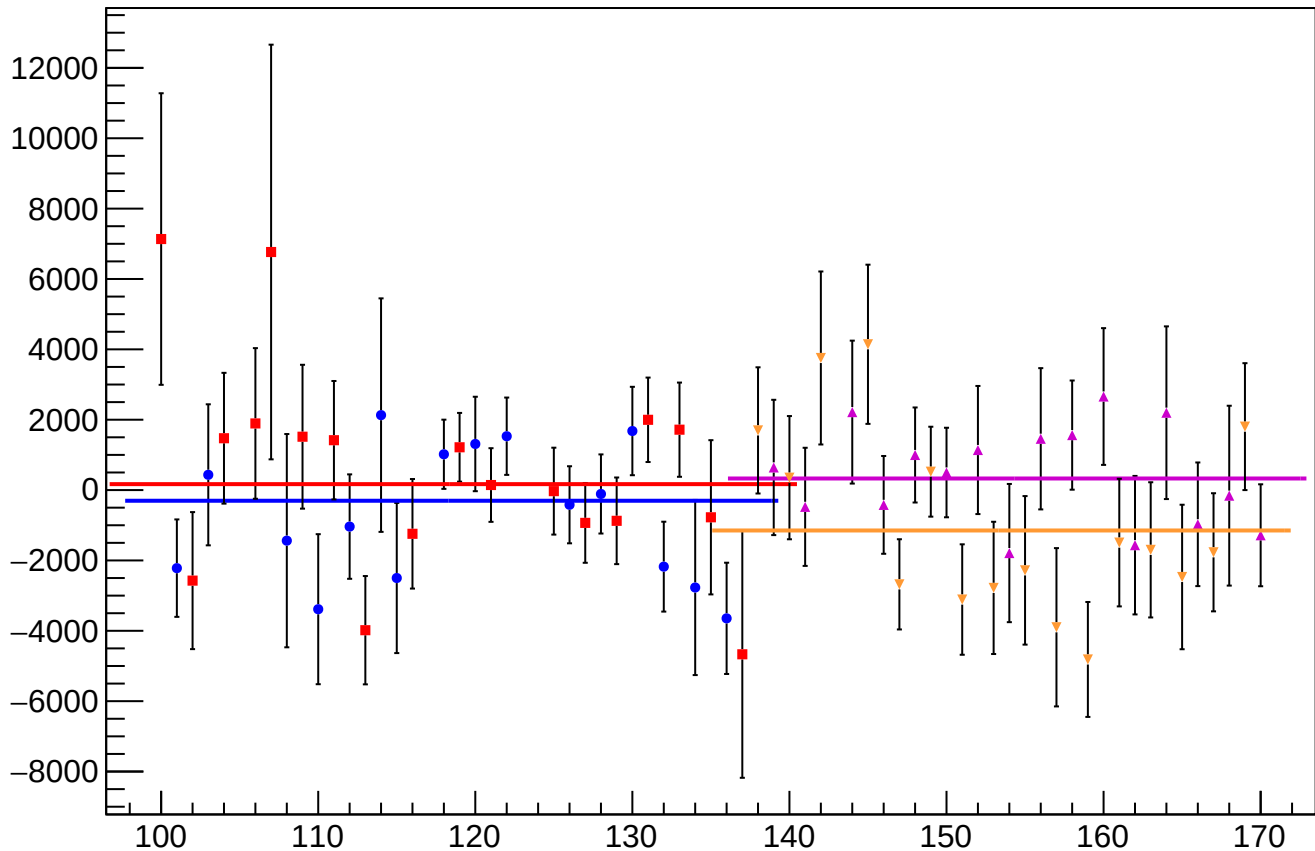
Right: 1113.224 $\pm$ 0.213 χ^2 /NDF: 34021.5/33

In: 1119.545 $\pm$ 0.181 χ^2 /NDF: 27869.2/31

Out: 1122.587 $\pm$ 0.182 χ^2 /NDF: 23790.0/33

All: 1121.058 $\pm$ 0.128 χ^2 /NDF: 51800.0/65

asym_usl_correction_mean vs Slug, Sign Corrected



Right In: -303.335 ± 360.068 χ^2/NDF : 22.3/15

Left Out: -1148.199 ± 439.435 χ^2/NDF : 28.3/15

Right Out: 168.849 ± 356.237 χ^2/NDF : 24.9/17

Left In: 329.141 ± 429.634 χ^2/NDF : 8.8/15

Left: -392.870 ± 307.204 χ^2/NDF : 42.9/31

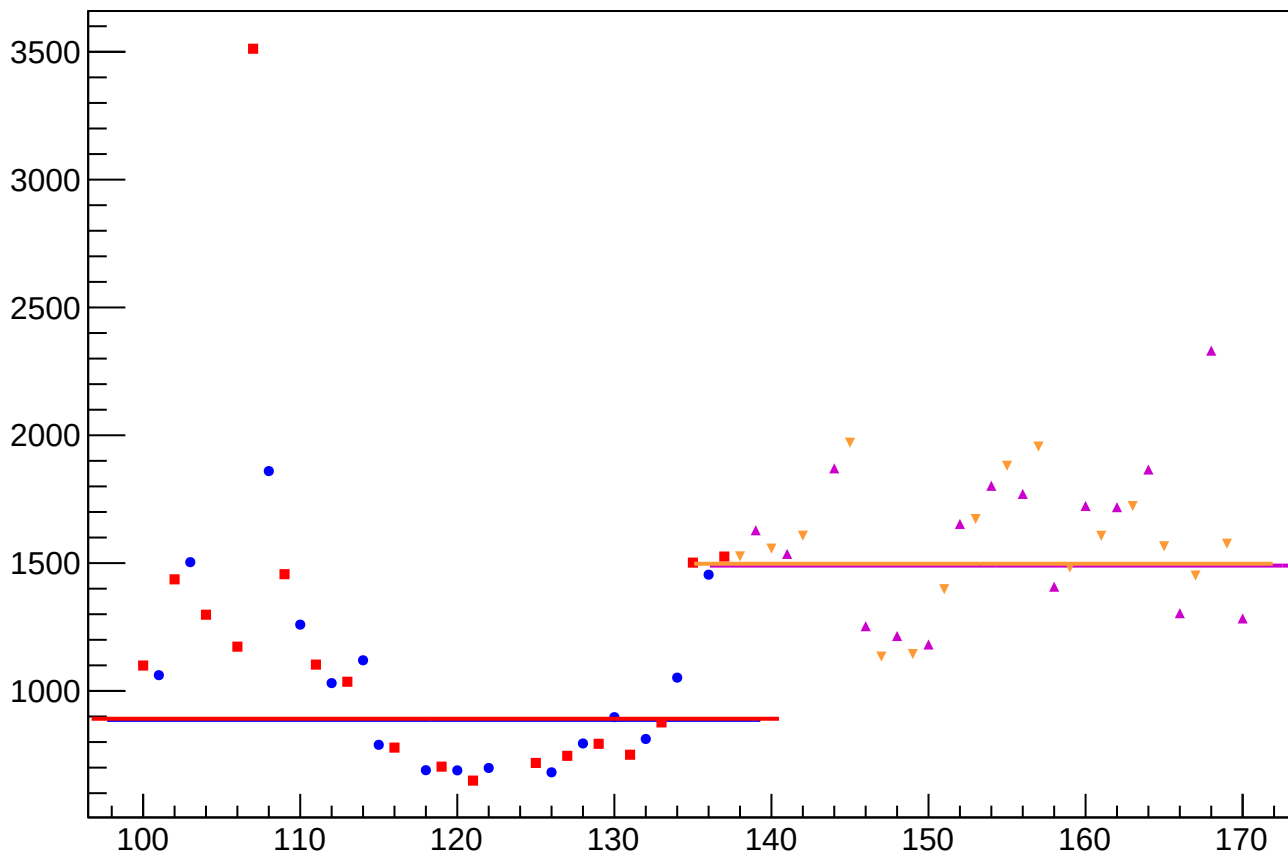
Right: -64.717 ± 253.241 χ^2/NDF : 48.0/33

In: -42.384 ± 275.967 χ^2/NDF : 32.3/31

Out: -353.449 ± 276.728 χ^2/NDF : 58.6/33

All: -197.488 ± 195.407 χ^2/NDF : 91.6/65

asym_usl_correction_rms vs Slug, Sign Corrected



Right In: 886.691 $\pm$ 0.255 χ^2/NDF : 1060864.2/15

Left Out: 1497.499 $\pm$ 0.311 χ^2/NDF : 624556.3/15

Right Out: 891.197 $\pm$ 0.252 χ^2/NDF : 1414187.9/17

Left In: 1490.267 $\pm$ 0.304 χ^2/NDF : 834347.9/15

Left: 1493.801 $\pm$ 0.217 χ^2/NDF : 1459181.2/31

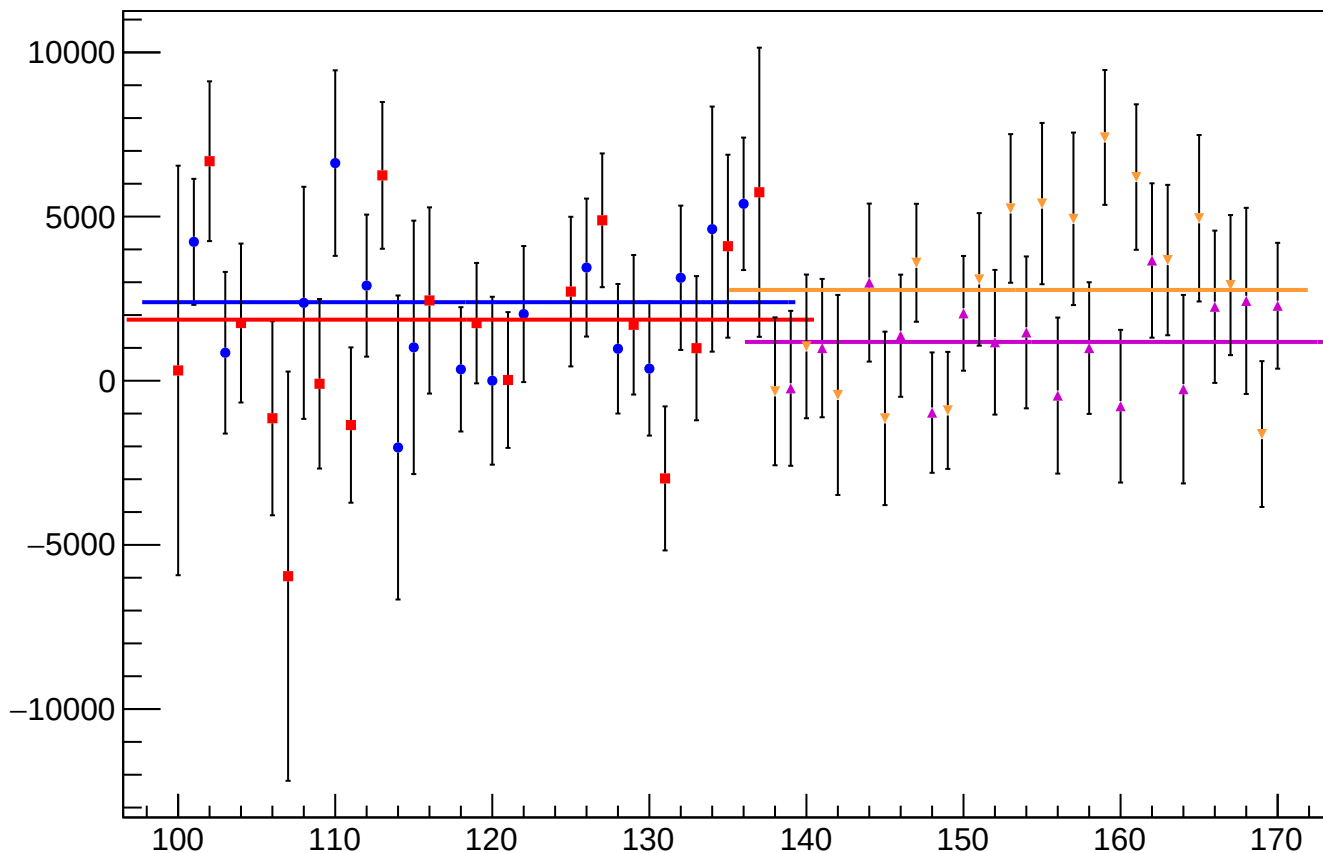
Right: 888.968 $\pm$ 0.179 χ^2/NDF : 2475210.4/33

In: 1135.718 $\pm$ 0.195 χ^2/NDF : 4213882.4/31

Out: 1131.636 $\pm$ 0.196 χ^2/NDF : 4336203.0/33

All: 1133.683 $\pm$ 0.138 χ^2/NDF : 8550303.6/65

asym_usl_mean vs Slug, Sign Corrected



Right In: 2392.385 $\pm$ 588.991 χ^2/NDF : 11.2/15

Left Out: 2765.080 $\pm$ 555.314 χ^2/NDF : 25.6/15

Right Out: 1859.867 $\pm$ 583.119 χ^2/NDF : 22.5/17

Left In: 1181.423 $\pm$ 543.928 χ^2/NDF : 5.9/15

Left: 1956.849 $\pm$ 388.578 χ^2/NDF : 35.7/31

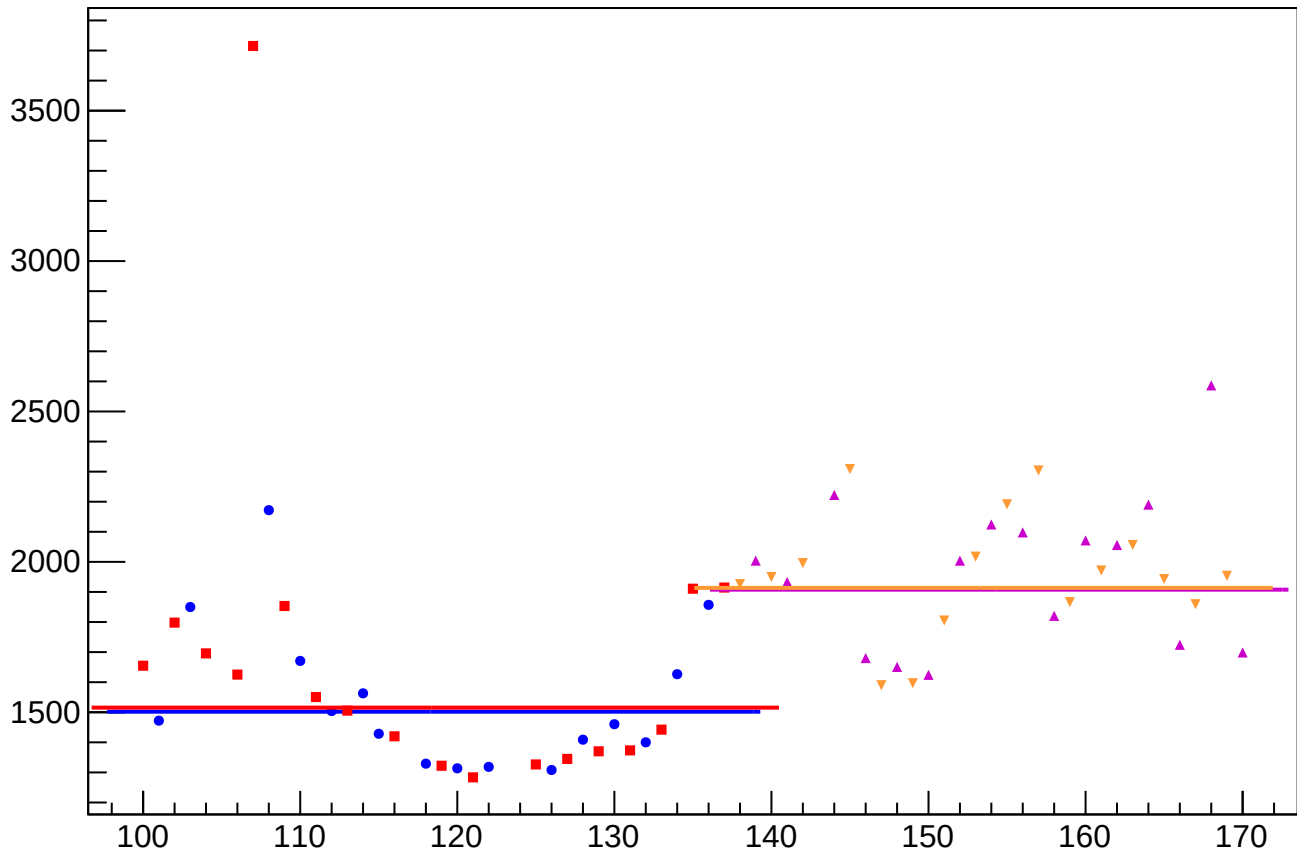
Right: 2123.458 $\pm$ 414.388 χ^2/NDF : 34.1/33

In: 1738.812 $\pm$ 399.597 χ^2/NDF : 19.3/31

Out: 2334.570 $\pm$ 402.137 χ^2/NDF : 49.4/33

All: 2034.804 $\pm$ 283.452 χ^2/NDF : 69.8/65

asym_usl_rms vs Slug, Sign Corrected



Right In: 1501.937+/-0.416 χ^2/NDF : 254549.7/15

Left Out: 1913.567+/-0.393 χ^2/NDF : 267120.6/15

Right Out: 1515.406+/-0.412 χ^2/NDF : 479759.9/17

Left In: 1907.612+/-0.385 χ^2/NDF : 385904.0/15

Left: 1910.528+/-0.275 χ^2/NDF : 653141.9/31

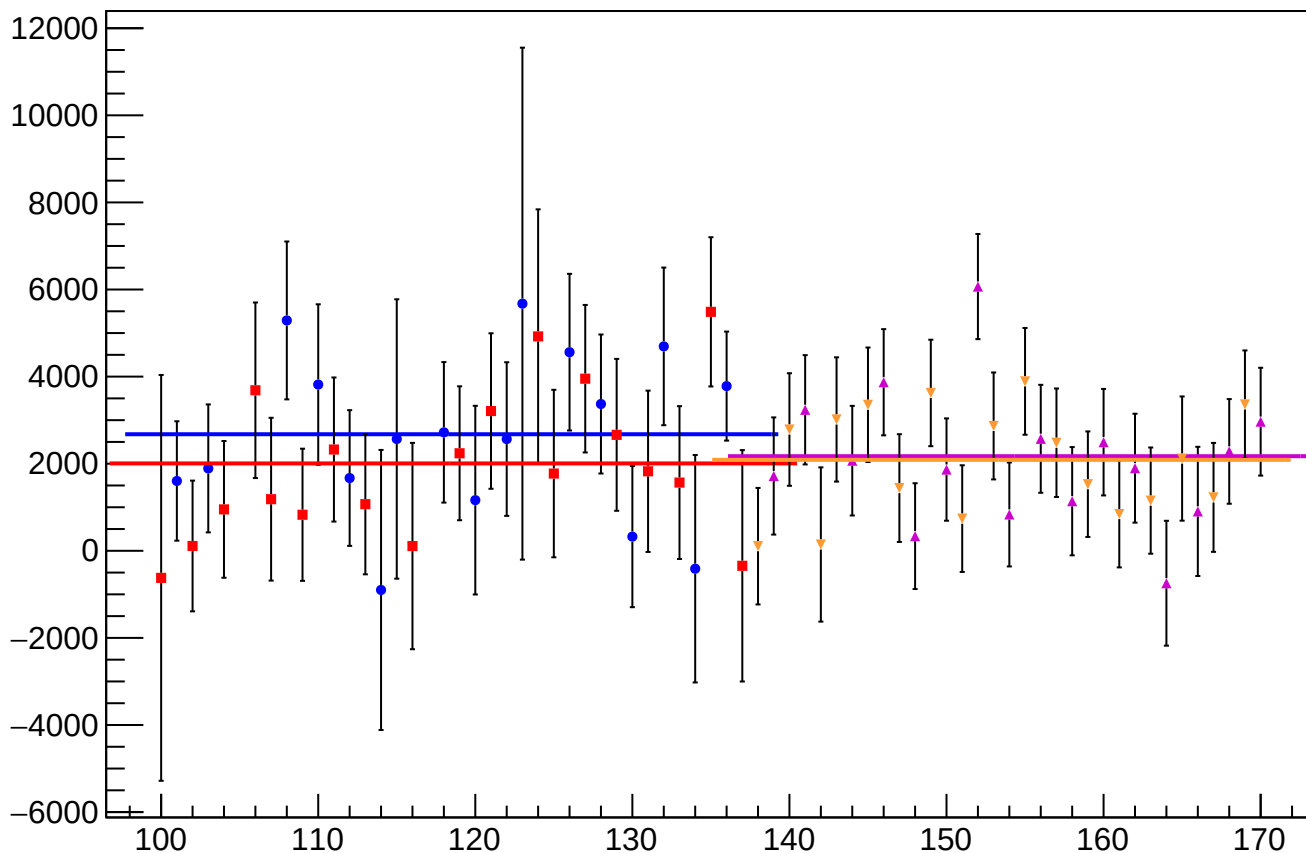
Right: 1508.739+/-0.293 χ^2/NDF : 734837.7/33

In: 1720.885+/-0.283 χ^2/NDF : 1152529.2/31

Out: 1724.205+/-0.284 χ^2/NDF : 1235876.3/33

All: 1722.535+/-0.200 χ^2/NDF : 2388474.1/65

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2676.683 $\pm$ 433.582 χ^2 /NDF: 12.6/16

Left Out: 2088.935 $\pm$ 311.430 χ^2 /NDF:14.1/16

Right Out: 2006.577 $\pm$ 419.165 χ^2 /NDF: 12.8/18

Left In: 2172.119 $\pm$ 313.505 χ^2 /NDF:23.0/15

Left: 2130.251 $\pm$ 220.944 χ^2 /NDF: 37.2/32

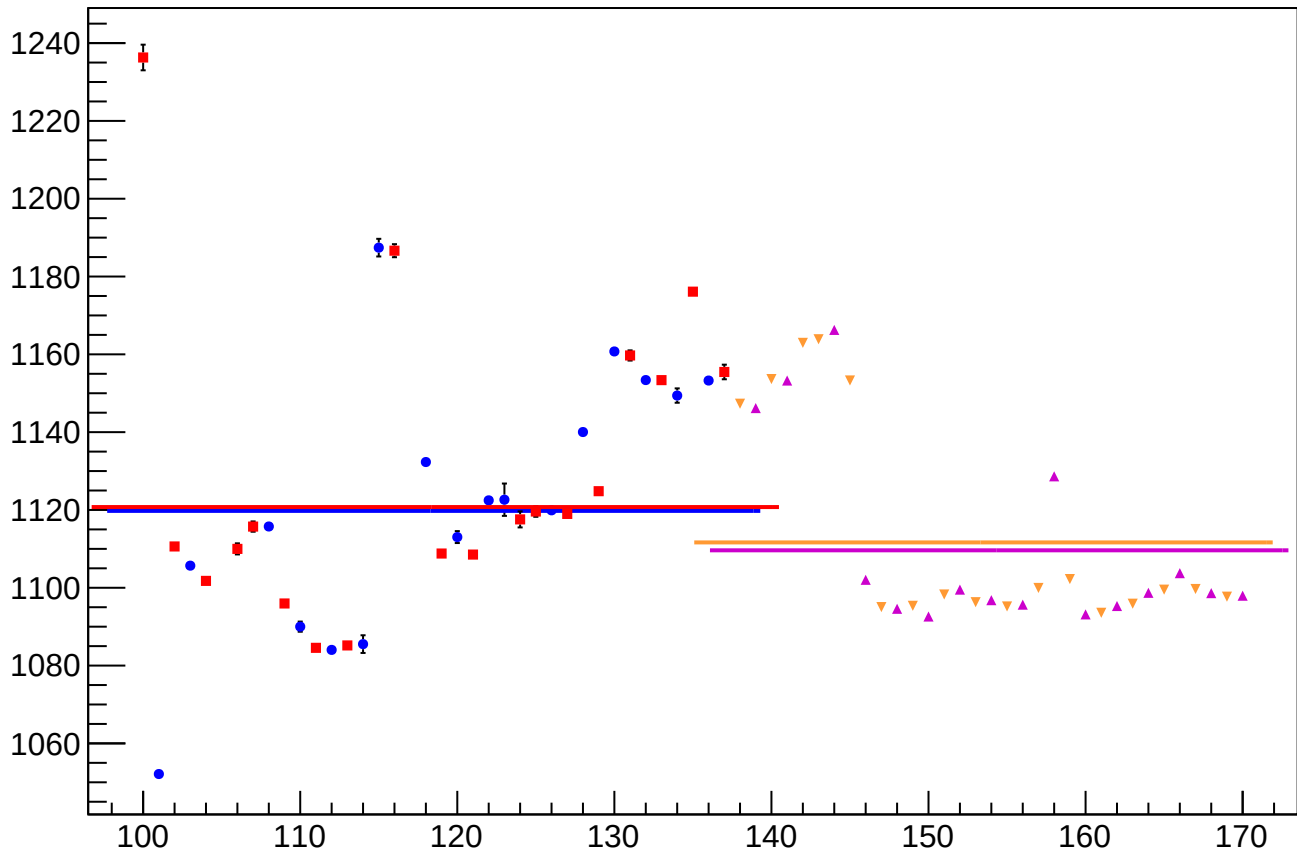
Right: 2330.304 $\pm$ 301.362 χ^2 /NDF: 26.6/35

In: 2345.346 $\pm$ 254.051 χ^2 /NDF:36.5/32

Out: 2059.642 $\pm$ 249.984 χ^2 /NDF:27.0/35

All: 2200.189 $\pm$ 178.186 χ^2 /NDF: 64.1/68

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1119.762 $\pm$ 0.307 χ^2 /NDF: 11876.8/16

Left Out: 1111.659 $\pm$ 0.220 χ^2 /NDF:13171.3/16

Right Out: 1120.746 $\pm$ 0.296 χ^2 /NDF: 9934.2/18

Left In: 1109.627 $\pm$ 0.222 χ^2 /NDF:10961.3/15

Left: 1110.650 $\pm$ 0.156 χ^2 /NDF: 24174.9/32

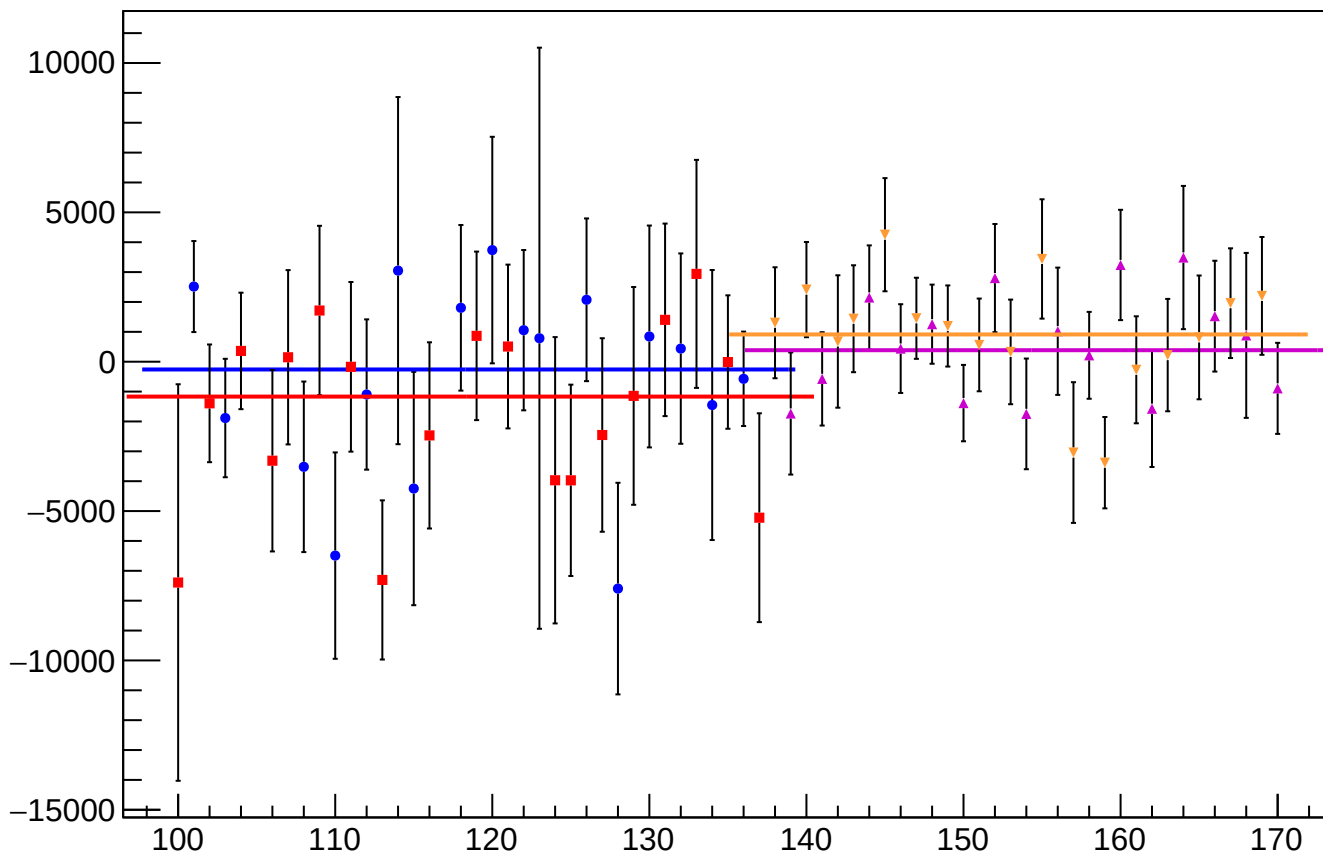
Right: 1120.271 $\pm$ 0.213 χ^2 /NDF: 21816.3/35

In: 1113.106 $\pm$ 0.180 χ^2 /NDF:23555.7/32

Out: 1114.891 $\pm$ 0.177 χ^2 /NDF:23711.1/35

All: 1114.013 $\pm$ 0.126 χ^2 /NDF: 47317.0/68

asym_usr_correction_mean vs Slug, Sign Corrected



Right In: -259.821+/-655.275 χ^2/NDF : 17.2/16

Left Out: 912.856+/-424.730 χ^2/NDF : 18.1/16

Right Out: -1167.598+/-662.428 χ^2/NDF : 14.4/18

Left In: 385.009+/-426.999 χ^2/NDF : 14.2/15

Left: 650.339+/-301.129 χ^2/NDF : 33.1/32

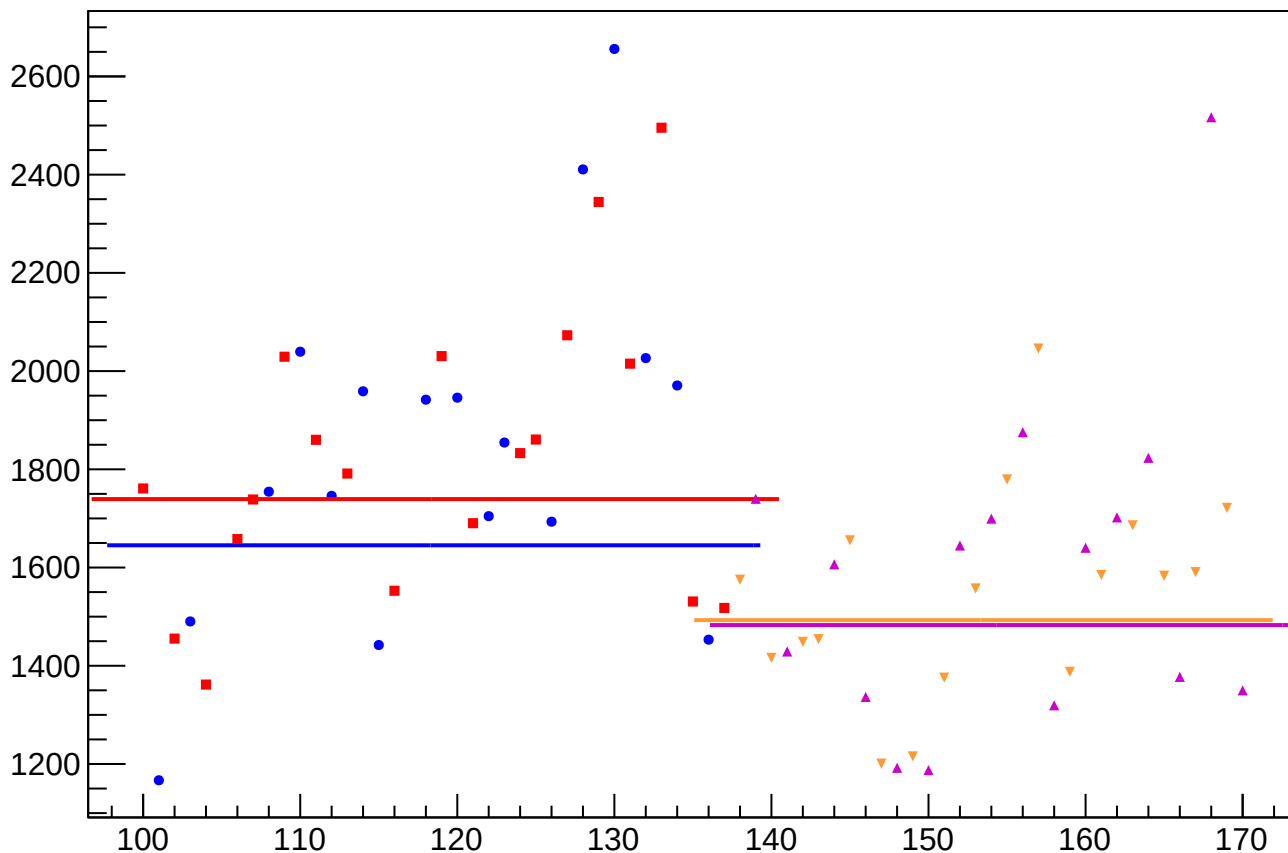
Right: -708.782+/-465.858 χ^2/NDF : 32.6/35

In: 192.810+/-357.748 χ^2/NDF : 32.1/32

Out: 306.750+/-357.548 χ^2/NDF : 39.5/35

All: 249.812+/-252.895 χ^2/NDF : 71.7/68

asym_usr_correction_rms vs Slug, Sign Corrected



Right In: 1645.307 $\pm$ 0.463 χ^2/NDF : 600915.2/16

Left Out: 1492.907 $\pm$ 0.300 χ^2/NDF : 438769.8/16

Right Out: 1739.382 $\pm$ 0.468 χ^2/NDF : 371012.9/18

Left In: 1482.887 $\pm$ 0.302 χ^2/NDF : 785350.0/15

Left: 1487.924 $\pm$ 0.213 χ^2/NDF : 1224673.3/32

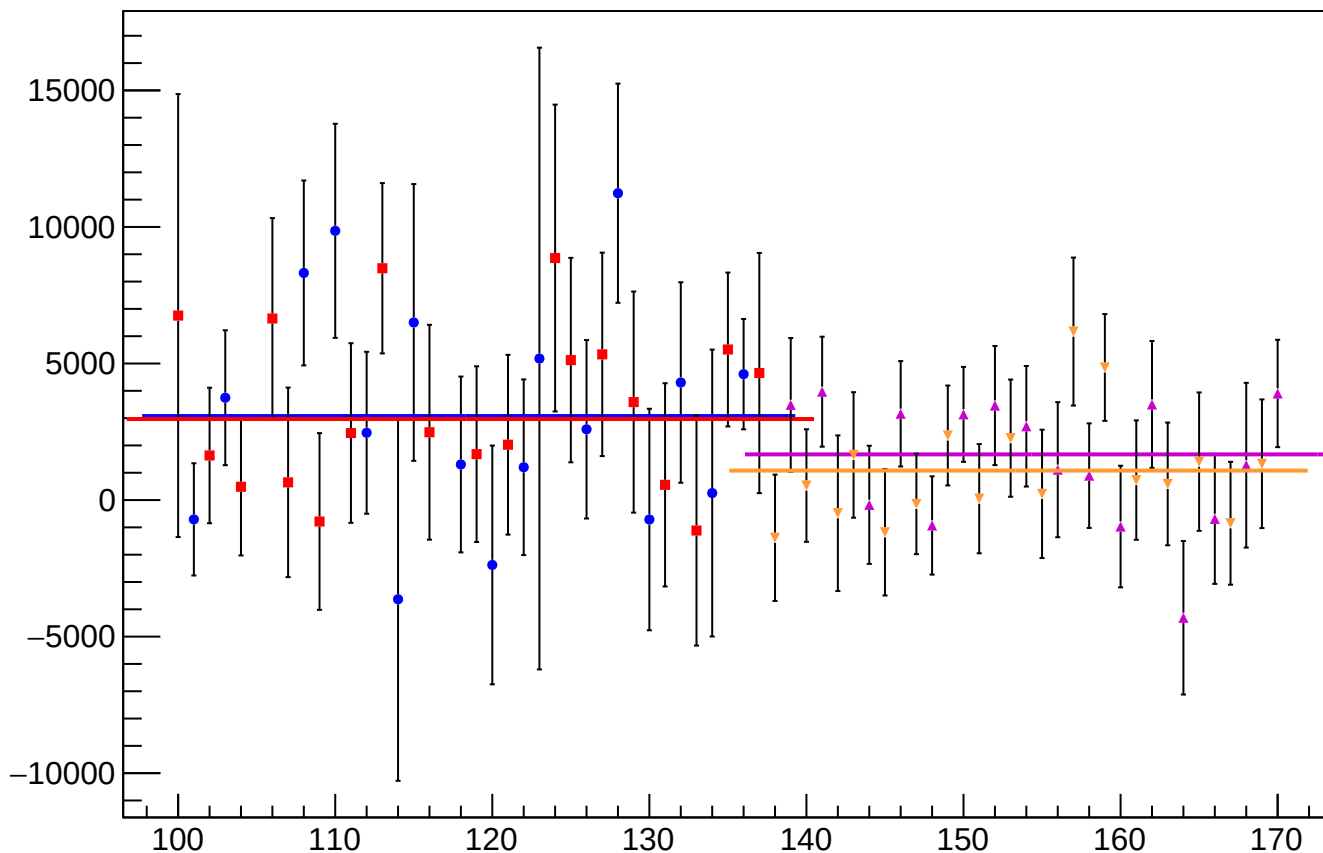
Right: 1691.833 $\pm$ 0.329 χ^2/NDF : 992315.5/35

In: 1531.298 $\pm$ 0.253 χ^2/NDF : 1472514.5/32

Out: 1564.713 $\pm$ 0.253 χ^2/NDF : 1006000.6/35

All: 1548.015 $\pm$ 0.179 χ^2/NDF : 2487244.3/68

asym_usr_mean vs Slug, Sign Corrected



Right In: 3075.401 $\pm$ 802.249 χ^2/NDF : 18.6/16

Left Out: 1079.499 $\pm$ 534.233 χ^2/NDF :12.2/16

Right Out: 2967.536 $\pm$ 795.639 χ^2/NDF : 11.9/18

Left In: 1673.024 $\pm$ 538.692 χ^2/NDF :15.9/15

Left: 1373.795 $\pm$ 379.326 χ^2/NDF : 28.8/32

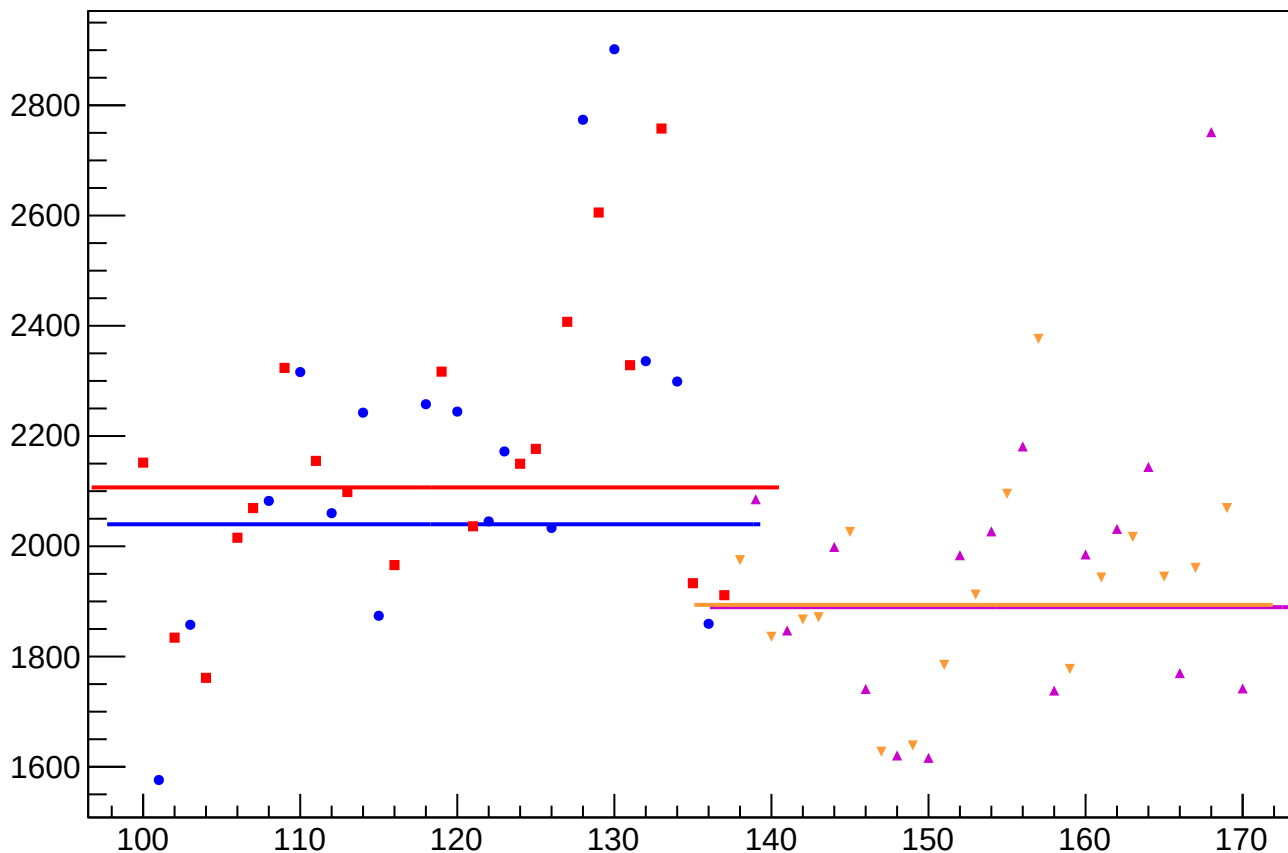
Right: 3021.022 $\pm$ 564.924 χ^2/NDF : 30.5/35

In: 2108.831 $\pm$ 447.223 χ^2/NDF :36.6/32

Out: 1666.202 $\pm$ 443.527 χ^2/NDF :28.0/35

All: 1885.680 $\pm$ 314.919 χ^2/NDF : 65.1/68

asym_usr_rms vs Slug, Sign Corrected



Right In: 2039.942 $\pm$ 0.567 χ^2/NDF : 331984.0/16

Left Out: 1893.776 $\pm$ 0.378 χ^2/NDF : 203841.3/16

Right Out: 2106.832 $\pm$ 0.563 χ^2/NDF : 195448.9/18

Left In: 1889.586 $\pm$ 0.381 χ^2/NDF : 383662.8/15

Left: 1891.698 $\pm$ 0.268 χ^2/NDF : 587565.1/32

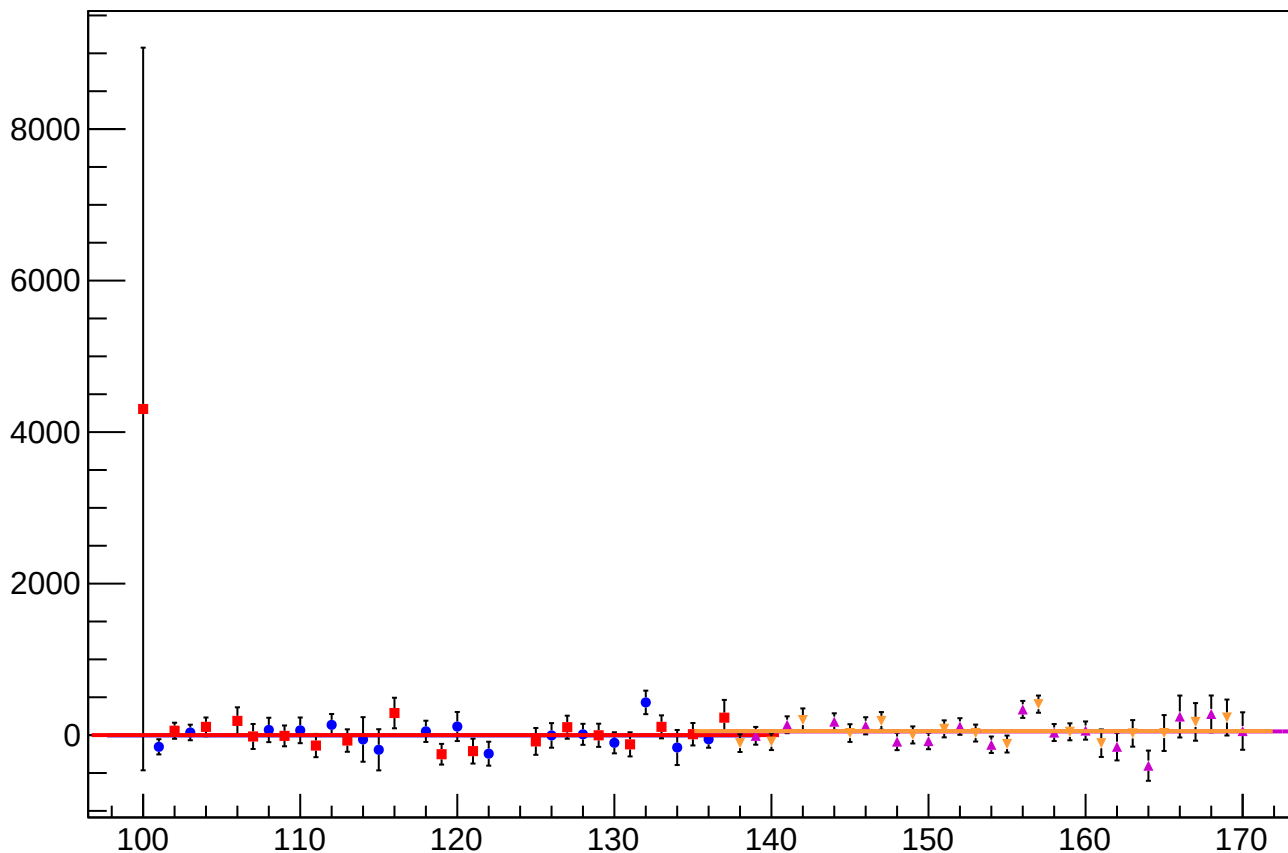
Right: 2073.664 $\pm$ 0.399 χ^2/NDF : 534442.4/35

In: 1936.311 $\pm$ 0.316 χ^2/NDF : 764066.4/32

Out: 1959.983 $\pm$ 0.314 χ^2/NDF : 498137.7/35

All: 1948.245 $\pm$ 0.223 χ^2/NDF : 1265029.0/68

reg_asym_dsl_mean vs Slug, Sign Corrected



Right In: -3.283 $\pm$ 36.714 χ^2/NDF : 16.1/15

Left Out: 53.066 $\pm$ 32.732 χ^2/NDF : 19.8/15

Right Out: 0.487 $\pm$ 36.699 χ^2/NDF : 14.0/17

Left In: 49.027 $\pm$ 31.995 χ^2/NDF : 23.0/15

Left: 51.001 $\pm$ 22.880 χ^2/NDF : 42.8/31

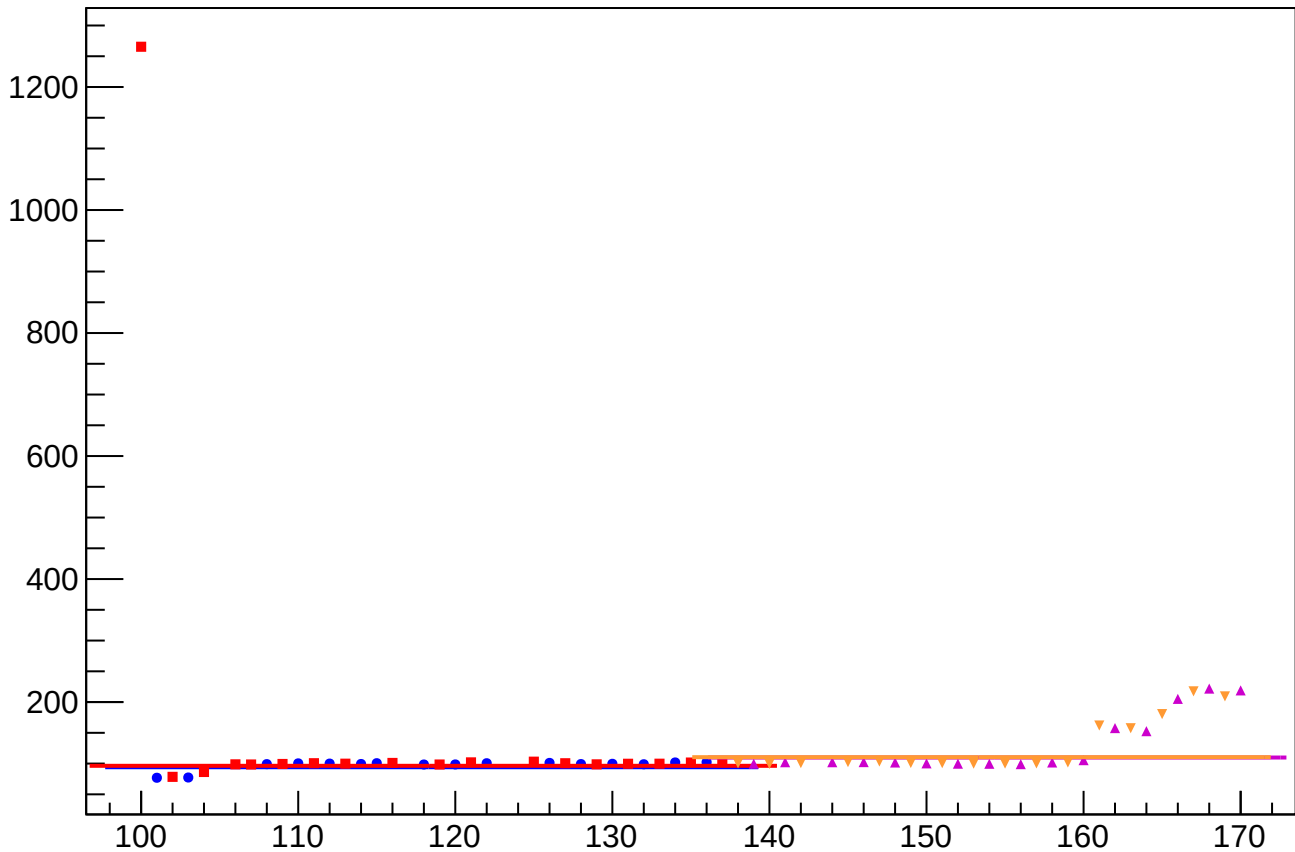
Right: -1.397 $\pm$ 25.955 χ^2/NDF : 30.1/33

In: 26.448 $\pm$ 24.121 χ^2/NDF : 40.3/31

Out: 29.771 $\pm$ 24.428 χ^2/NDF : 34.9/33

All: 28.088 $\pm$ 17.163 χ^2/NDF : 75.2/65

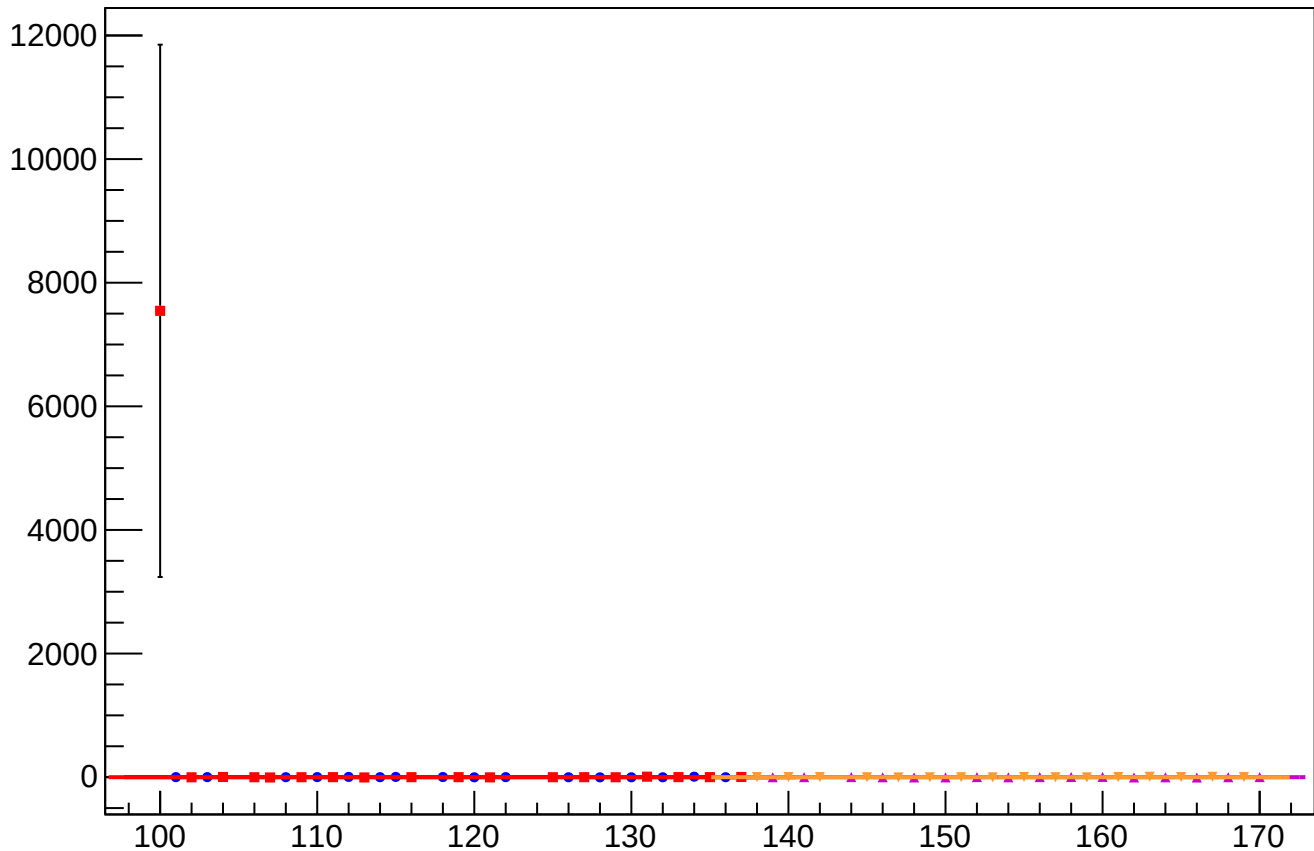
reg_asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.068 $\pm$ 0.026 χ^2 /NDF: 152285.6/15
 Left Out: 110.410 $\pm$ 0.023 χ^2 /NDF: 135117.8/15
 Right Out: 96.372 $\pm$ 0.026 χ^2 /NDF: 209228.5/17
 Left In: 109.834 $\pm$ 0.023 χ^2 /NDF: 1417327.1/15

Left: 110.116 $\pm$ 0.016 χ^2 /NDF: 2768761.8/31
 Right: 95.221 $\pm$ 0.018 χ^2 /NDF: 365453.7/33
 In: 103.029 $\pm$ 0.017 χ^2 /NDF: 1779228.1/31
 Out: 104.191 $\pm$ 0.017 χ^2 /NDF: 1723336.6/33
 All: 103.602 $\pm$ 0.012 χ^2 /NDF: 3504855.1/65

asym_dsl_correction_mean vs Slug, Sign Corrected



Right In: 0.426+/-0.616 χ^2/NDF : 9.7/15

Left Out: -0.304+/-0.573 χ^2/NDF : 20.5/15

Right Out: -0.313+/-0.643 χ^2/NDF : 22.8/17

Left In: -0.075+/-0.587 χ^2/NDF : 21.0/15

Left: -0.192+/-0.410 χ^2/NDF : 41.6/31

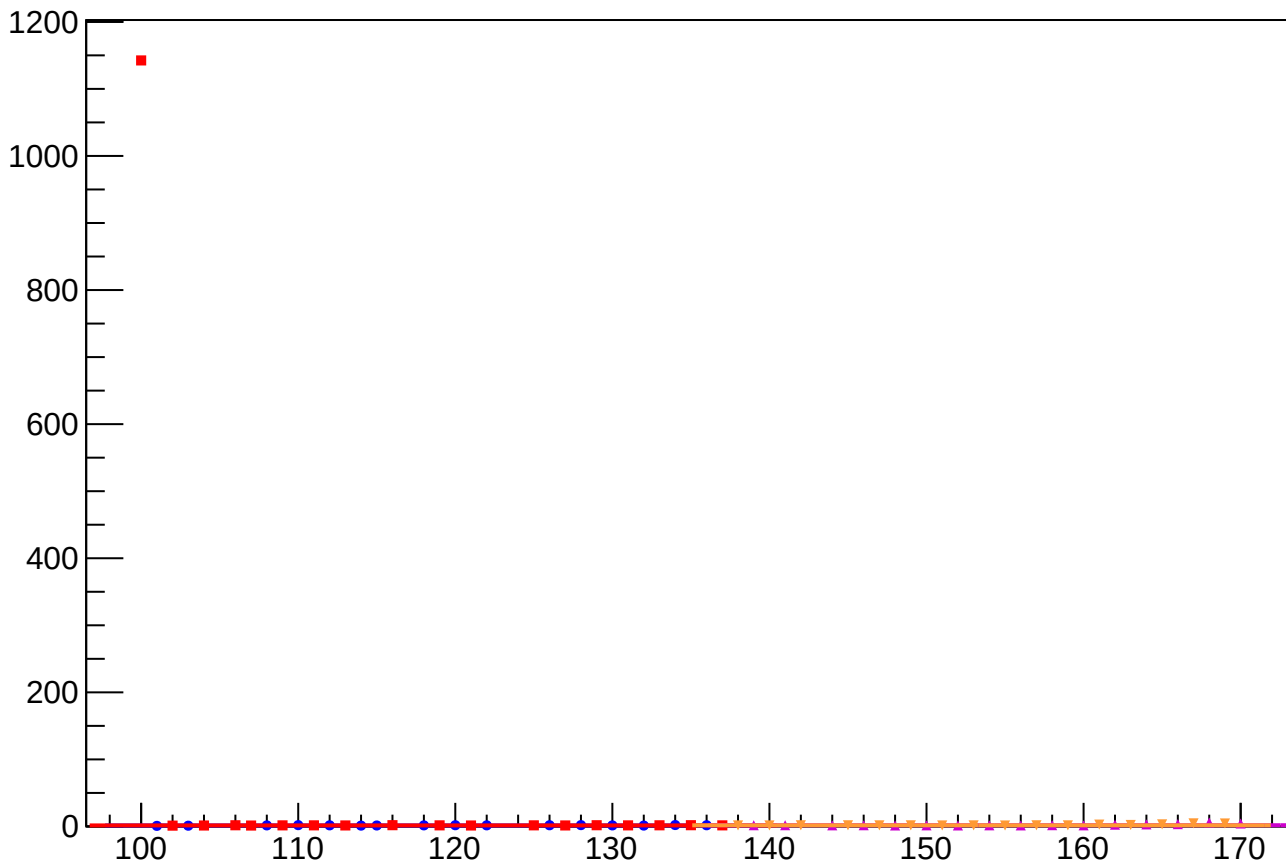
Right: 0.073+/-0.445 χ^2/NDF : 33.2/33

In: 0.164+/-0.425 χ^2/NDF : 31.1/31

Out: -0.308+/-0.428 χ^2/NDF : 43.3/33

All: -0.071+/-0.301 χ^2/NDF : 75.0/65

asym_dsl_correction_rms vs Slug, Sign Corrected



Right In: 1.420+/-0.000 χ^2/NDF : 730935.2/15

Left Out: 1.732+/-0.000 χ^2/NDF : 1462277.5/15

Right Out: 1.556+/-0.000 χ^2/NDF : 315908.9/17

Left In: 1.835+/-0.000 χ^2/NDF : 1761068.7/15

Left: 1.782+/-0.000 χ^2/NDF : 3254629.0/31

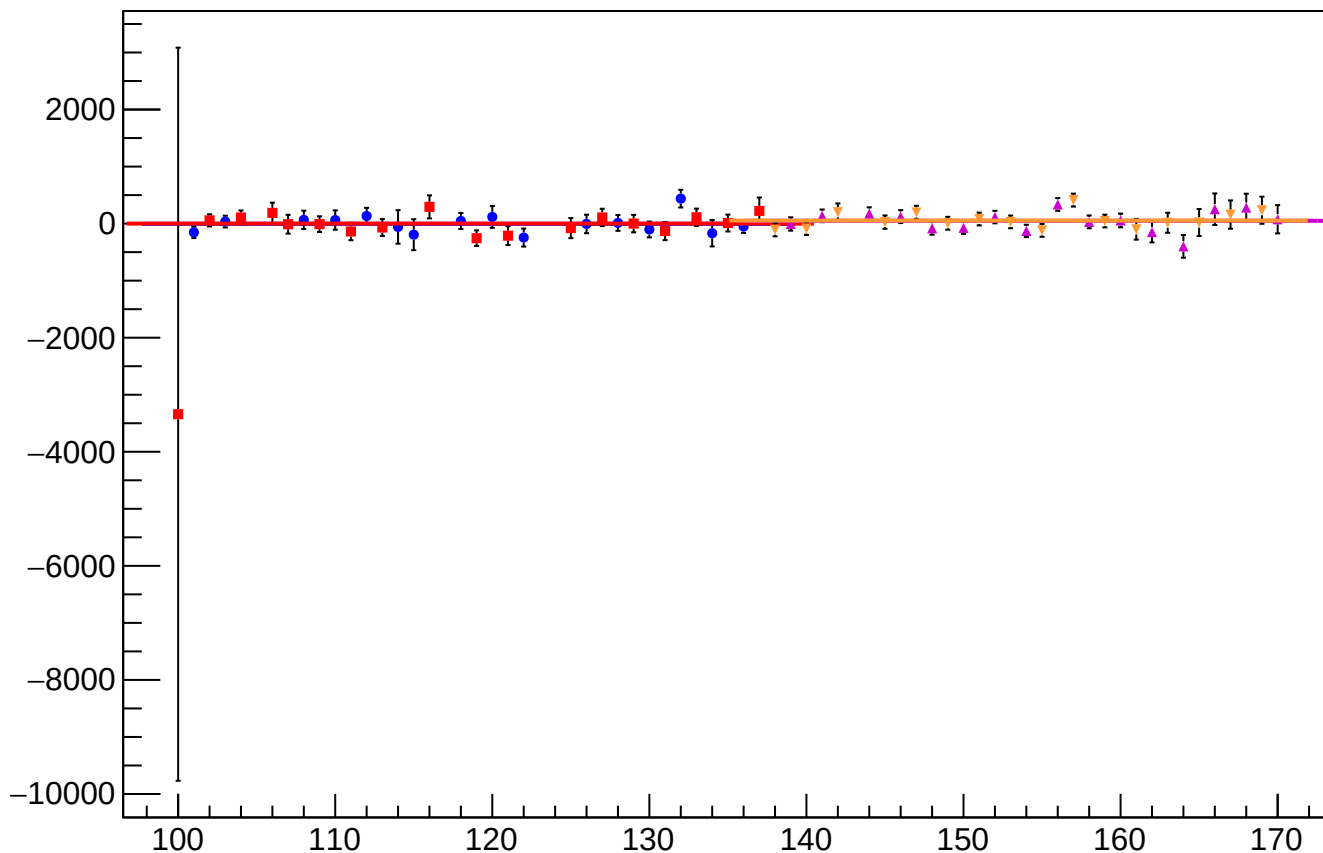
Right: 1.485+/-0.000 χ^2/NDF : 1093611.9/33

In: 1.637+/-0.000 χ^2/NDF : 2967821.0/31

Out: 1.654+/-0.000 χ^2/NDF : 1862074.9/33

All: 1.645+/-0.000 χ^2/NDF : 4831463.4/65

asym_dsl_mean vs Slug, Sign Corrected



Right In: -3.099 ± 36.723 $\chi^2/\text{NDF}: 16.3/15$

Left Out: 53.624 ± 32.742 $\chi^2/\text{NDF}: 20.1/15$

Right Out: 0.172 ± 36.709 $\chi^2/\text{NDF}: 13.5/17$

Left In: 49.350 ± 32.005 $\chi^2/\text{NDF}: 22.5/15$

Left: 51.438 ± 22.887 $\chi^2/\text{NDF}: 42.7/31$

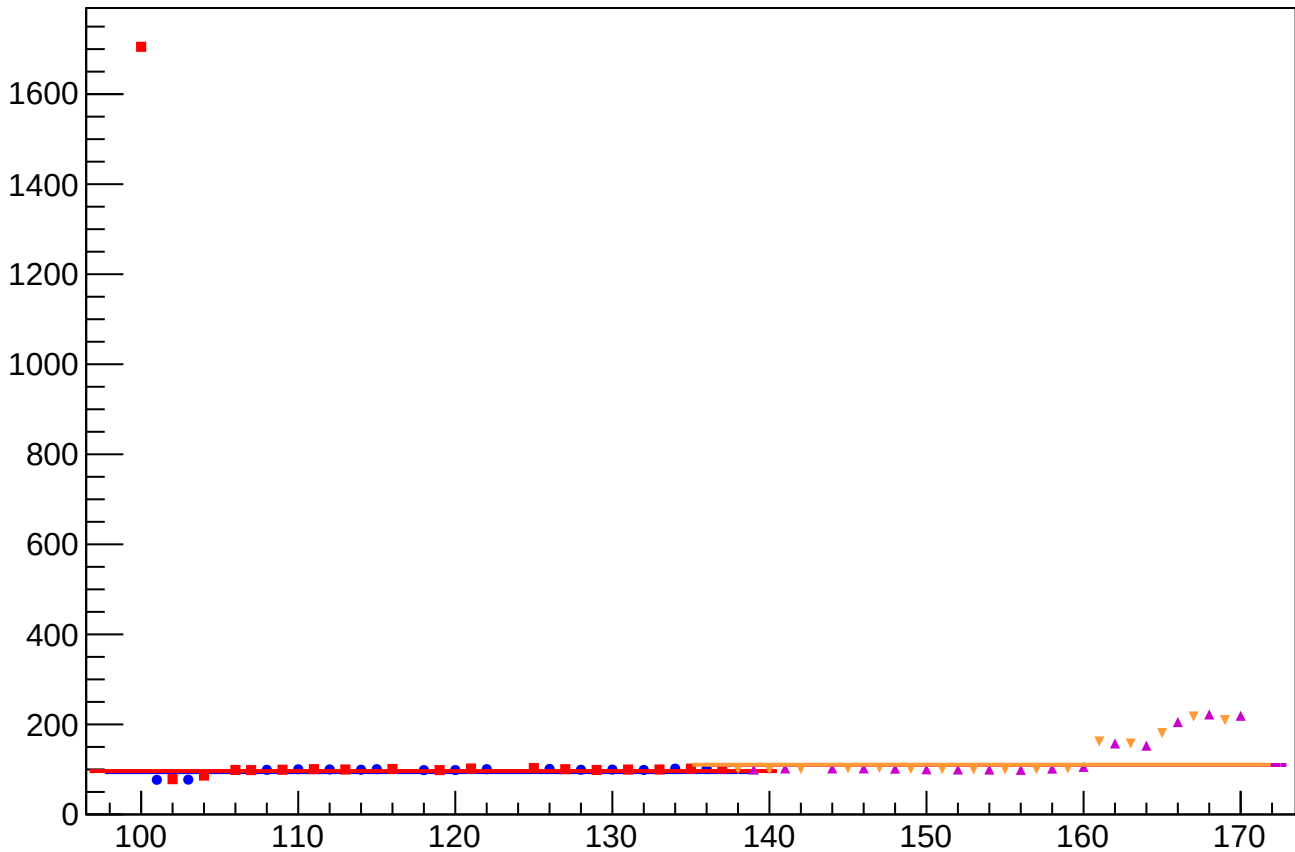
Right: -1.463 ± 25.962 $\chi^2/\text{NDF}: 29.8/33$

In: 26.709 ± 24.128 $\chi^2/\text{NDF}: 40.0/31$

Out: 29.941 ± 24.435 $\chi^2/\text{NDF}: 34.8/33$

All: 28.305 ± 17.168 $\chi^2/\text{NDF}: 74.8/65$

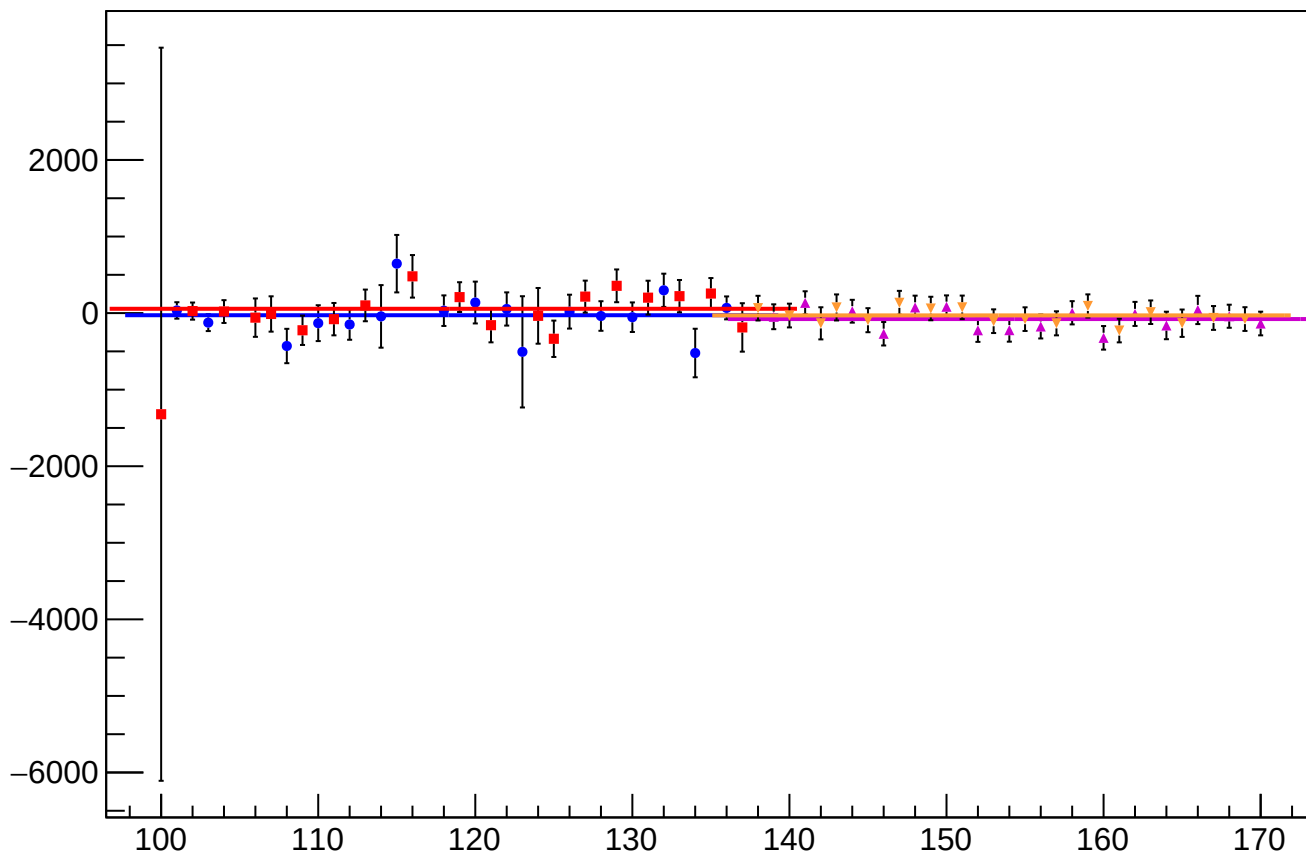
asym_dsl_rms vs Slug, Sign Corrected



Right In: 94.093+/-0.026 χ^2/NDF : 152305.3/15
 Left Out: 110.440+/-0.023 χ^2/NDF : 1352452.3/15
 Right Out: 96.381+/-0.026 χ^2/NDF : 214362.3/17
 Left In: 109.864+/-0.023 χ^2/NDF : 1418596.6/15

Left: 110.146+/-0.016 χ^2/NDF : 2771365.4/31
 Right: 95.237+/-0.018 χ^2/NDF : 370551.8/33
 In: 103.056+/-0.017 χ^2/NDF : 1780551.7/31
 Out: 104.211+/-0.017 χ^2/NDF : 1730199.8/33
 All: 103.626+/-0.012 χ^2/NDF : 3513013.4/65

reg_asym_dsr_mean vs Slug, Sign Corrected



Right In: -27.840 ± 46.777 $\chi^2/\text{NDF}: 14.3/16$

Left Out: -29.798 ± 38.623 $\chi^2/\text{NDF}: 6.7/16$

Right Out: 56.398 ± 47.708 $\chi^2/\text{NDF}: 14.9/18$

Left In: -77.827 ± 38.976 $\chi^2/\text{NDF}: 12.3/15$

Left: -53.594 ± 27.434 $\chi^2/\text{NDF}: 19.7/32$

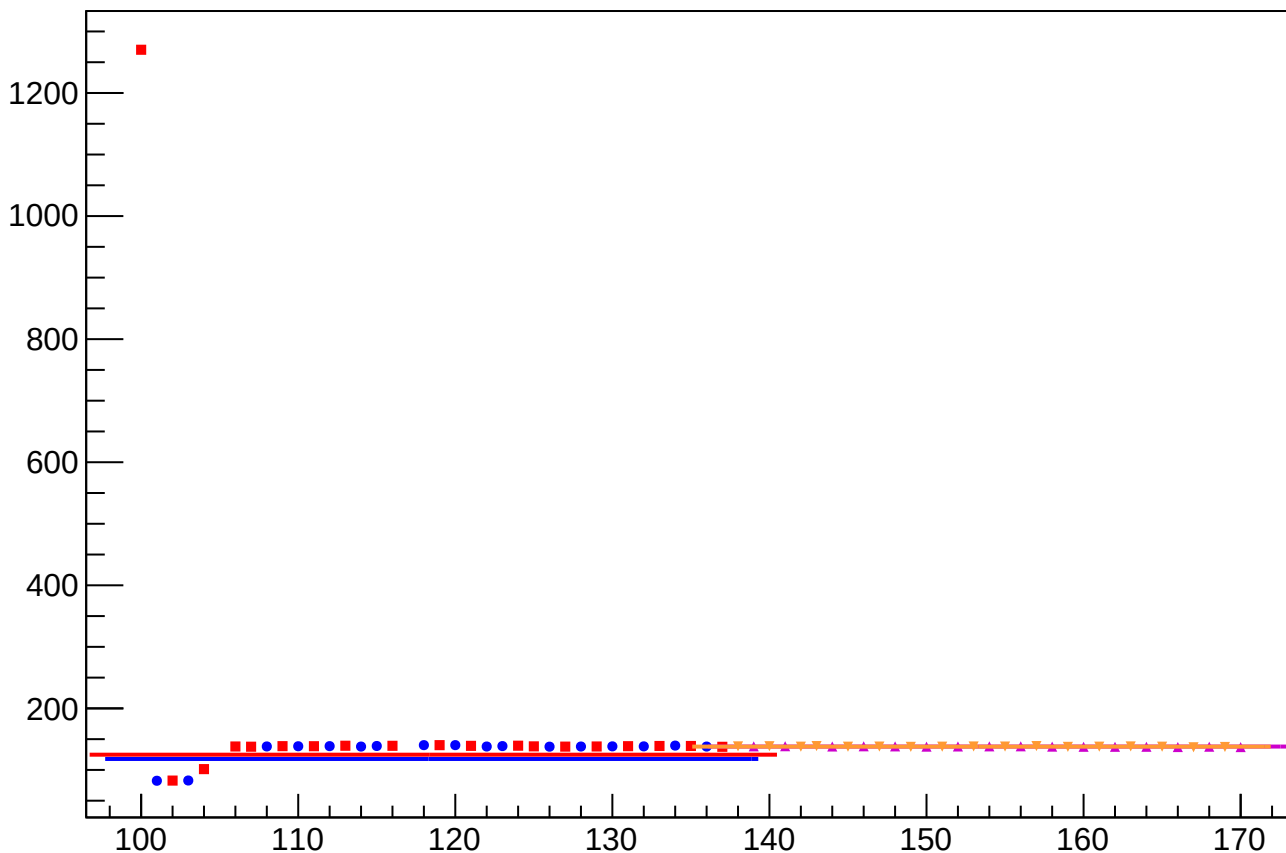
Right: 13.449 ± 33.401 $\chi^2/\text{NDF}: 30.8/35$

In: -57.343 ± 29.944 $\chi^2/\text{NDF}: 27.3/32$

Out: 4.328 ± 30.019 $\chi^2/\text{NDF}: 23.5/35$

All: -26.585 ± 21.200 $\chi^2/\text{NDF}: 52.9/68$

reg_asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.815 $\pm$ 0.033 χ^2 /NDF: 666581.7/16

Left Out: 137.899 $\pm$ 0.027 χ^2 /NDF:321.6/16

Right Out: 124.763 $\pm$ 0.034 χ^2 /NDF: 569771.6/18

Left In: 137.975 $\pm$ 0.028 χ^2 /NDF:221.3/15

Left: 137.936 $\pm$ 0.019 χ^2 /NDF: 546.7/32

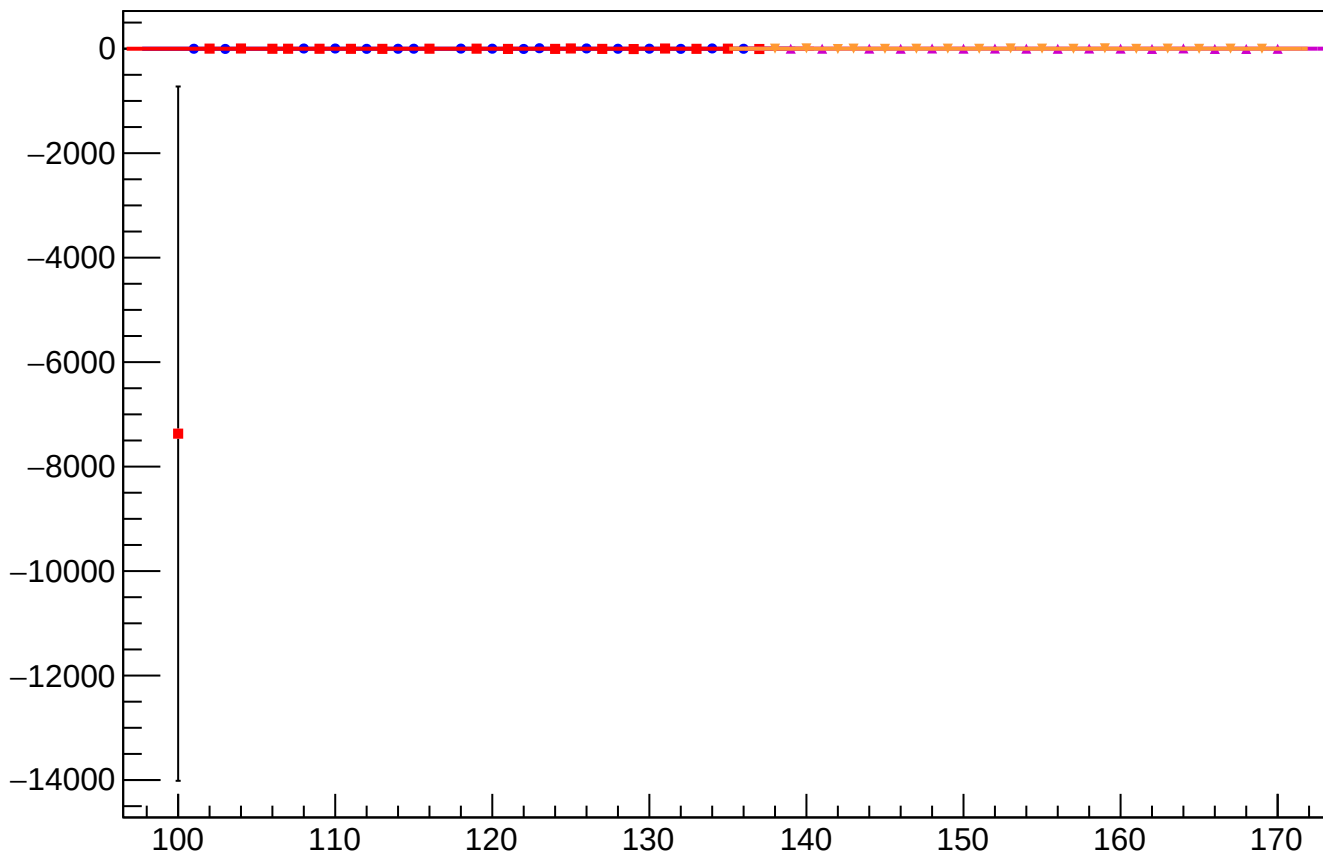
Right: 121.221 $\pm$ 0.024 χ^2 /NDF: 1257984.7/35

In: 129.714 $\pm$ 0.021 χ^2 /NDF:886061.3/32

Out: 132.698 $\pm$ 0.021 χ^2 /NDF:661681.8/35

All: 131.202 $\pm$ 0.015 χ^2 /NDF: 1557654.9/68

asym_dsr_correction_mean vs Slug, Sign Corrected



Right In: -0.695+/-0.810 χ^2/NDF : 12.7/16

Left Out: 0.409+/-0.669 χ^2/NDF :20.6/16

Right Out: -0.649+/-0.851 χ^2/NDF : 13.7/18

Left In: 0.628+/-0.677 χ^2/NDF :15.9/15

Left: 0.517+/-0.476 χ^2/NDF : 36.5/32

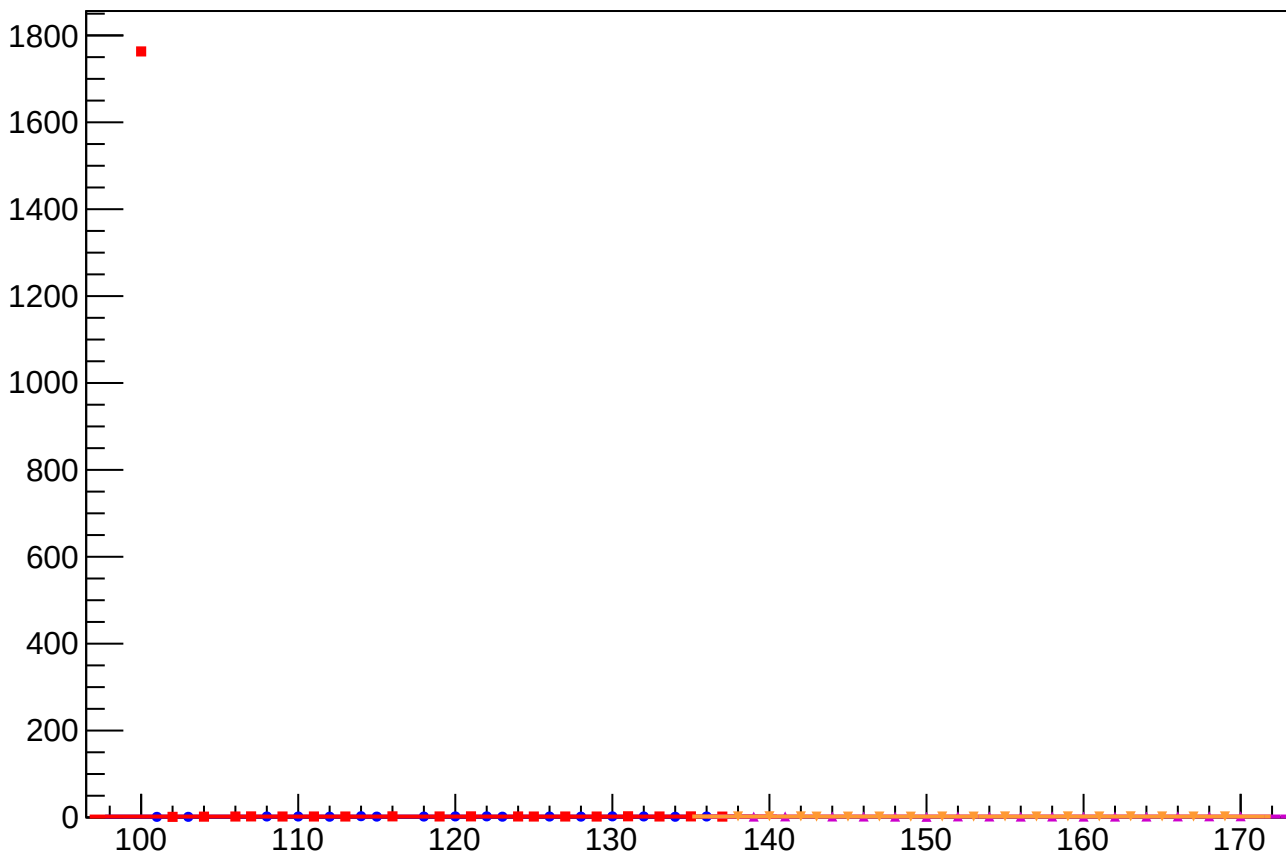
Right: -0.673+/-0.587 χ^2/NDF : 26.3/35

In: 0.083+/-0.520 χ^2/NDF :30.1/32

Out: 0.005+/-0.526 χ^2/NDF :35.2/35

All: 0.045+/-0.370 χ^2/NDF : 65.3/68

asym_dsr_correction_rms vs Slug, Sign Corrected



Right In: 1.869 $\pm$ 0.001 χ^2 /NDF: 493173.6/16

Left Out: 2.192 $\pm$ 0.000 χ^2 /NDF:224867.5/16

Right Out: 2.065 $\pm$ 0.001 χ^2 /NDF: 525497.0/18

Left In: 2.158 $\pm$ 0.000 χ^2 /NDF:440687.0/15

Left: 2.175 $\pm$ 0.000 χ^2 /NDF: 668171.4/32

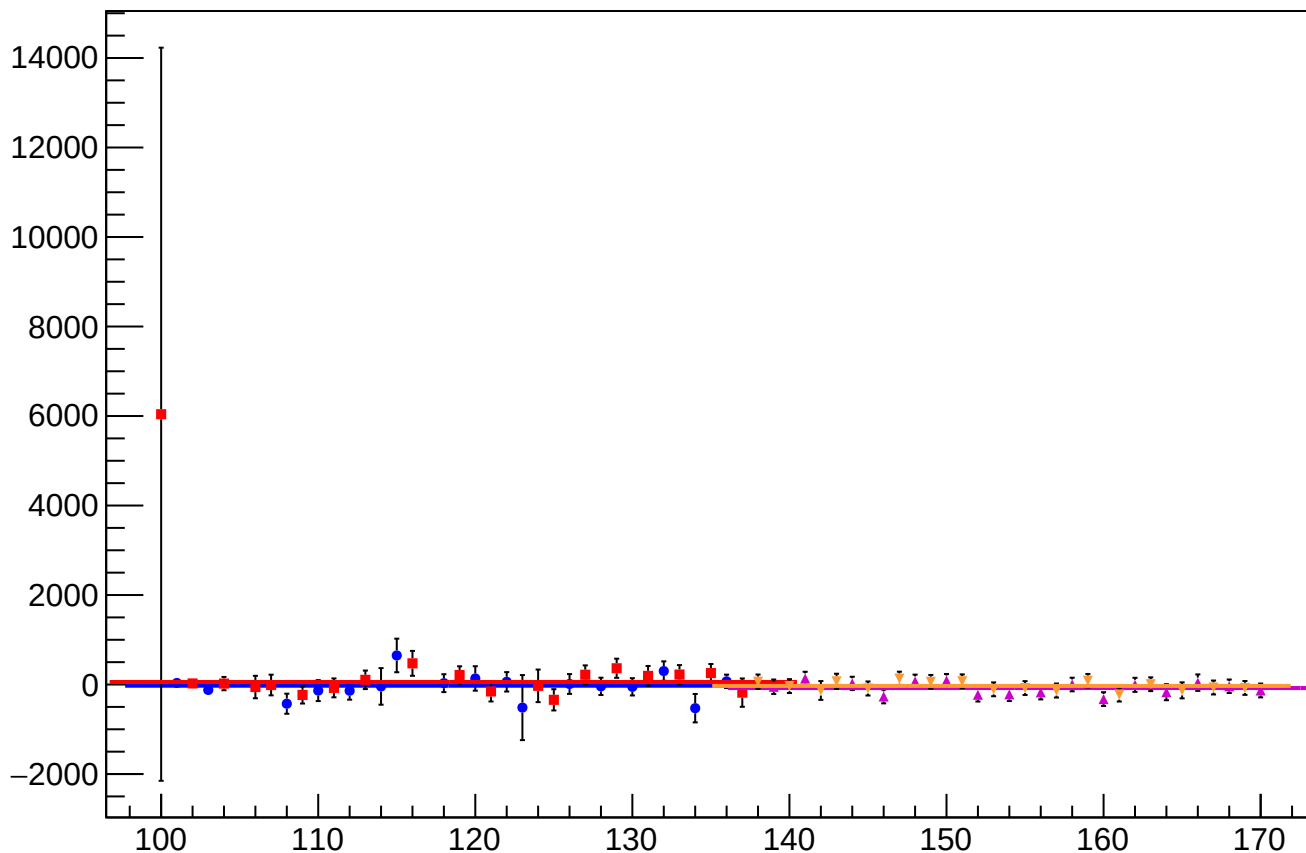
Right: 1.962 $\pm$ 0.000 χ^2 /NDF: 1074296.8/35

In: 2.039 $\pm$ 0.000 χ^2 /NDF:1083468.6/32

Out: 2.144 $\pm$ 0.000 χ^2 /NDF:778014.7/35

All: 2.091 $\pm$ 0.000 χ^2 /NDF: 1901563.3/68

asym_dsr_mean vs Slug, Sign Corrected



Right In: -26.258 $\pm$ 46.789 χ^2/NDF : 14.4/16

Left Out: -30.741 $\pm$ 38.633 χ^2/NDF : 6.4/16

Right Out: 57.268 $\pm$ 47.722 χ^2/NDF : 15.5/18

Left In: -78.024 $\pm$ 38.987 χ^2/NDF : 12.3/15

Left: -54.167 $\pm$ 27.442 χ^2/NDF : 19.5/32

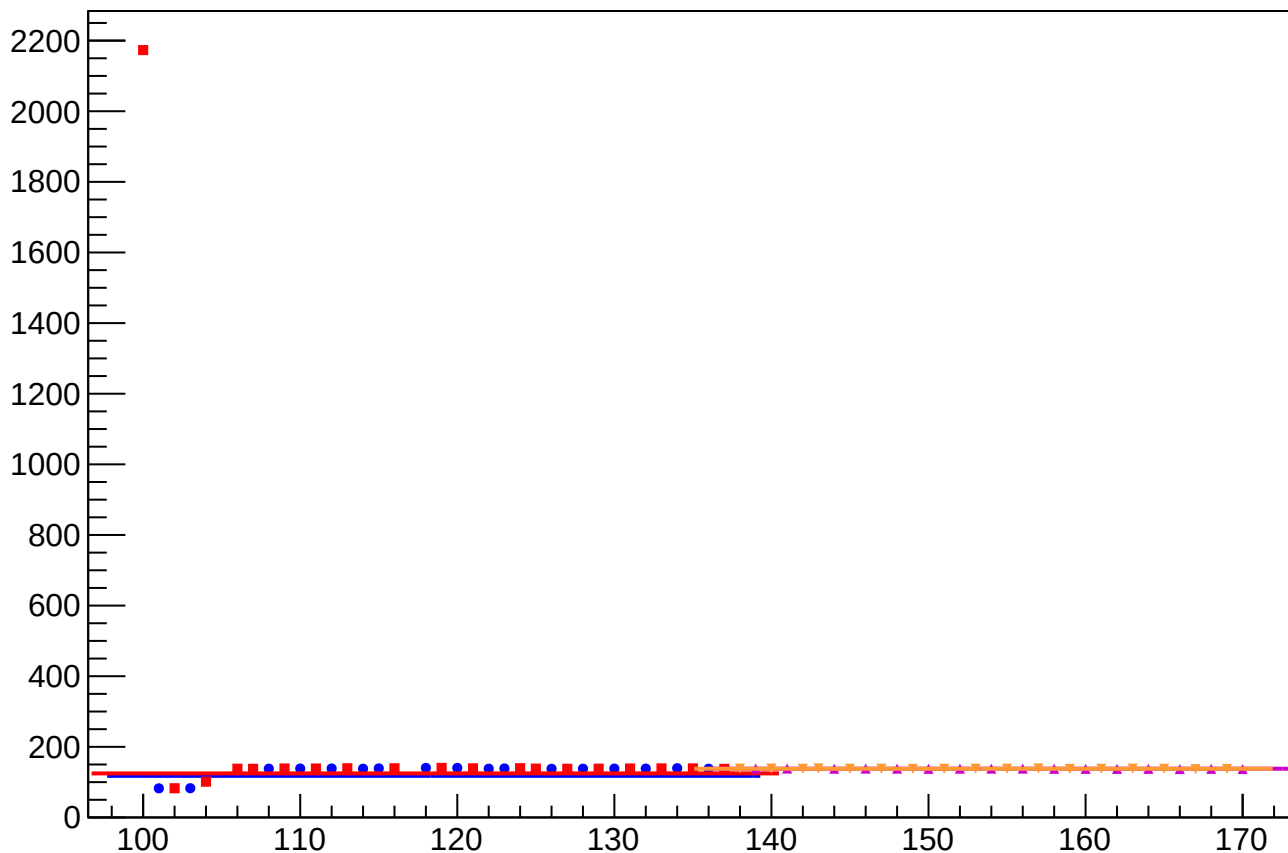
Right: 14.681 $\pm$ 33.410 χ^2/NDF : 31.4/35

In: -56.811 $\pm$ 29.952 χ^2/NDF : 27.4/32

Out: 4.101 $\pm$ 30.027 χ^2/NDF : 24.0/35

All: -26.431 $\pm$ 21.206 χ^2/NDF : 53.5/68

asym_dsr_rms vs Slug, Sign Corrected



Right In: 117.847 $\pm$ 0.033 χ^2/NDF : 666622.8/16

Left Out: 137.935 $\pm$ 0.027 χ^2/NDF : 321.1/16

Right Out: 124.752 $\pm$ 0.034 χ^2/NDF : 580350.4/18

Left In: 138.014 $\pm$ 0.028 χ^2/NDF : 217.8/15

Left: 137.974 $\pm$ 0.019 χ^2/NDF : 543.0/32

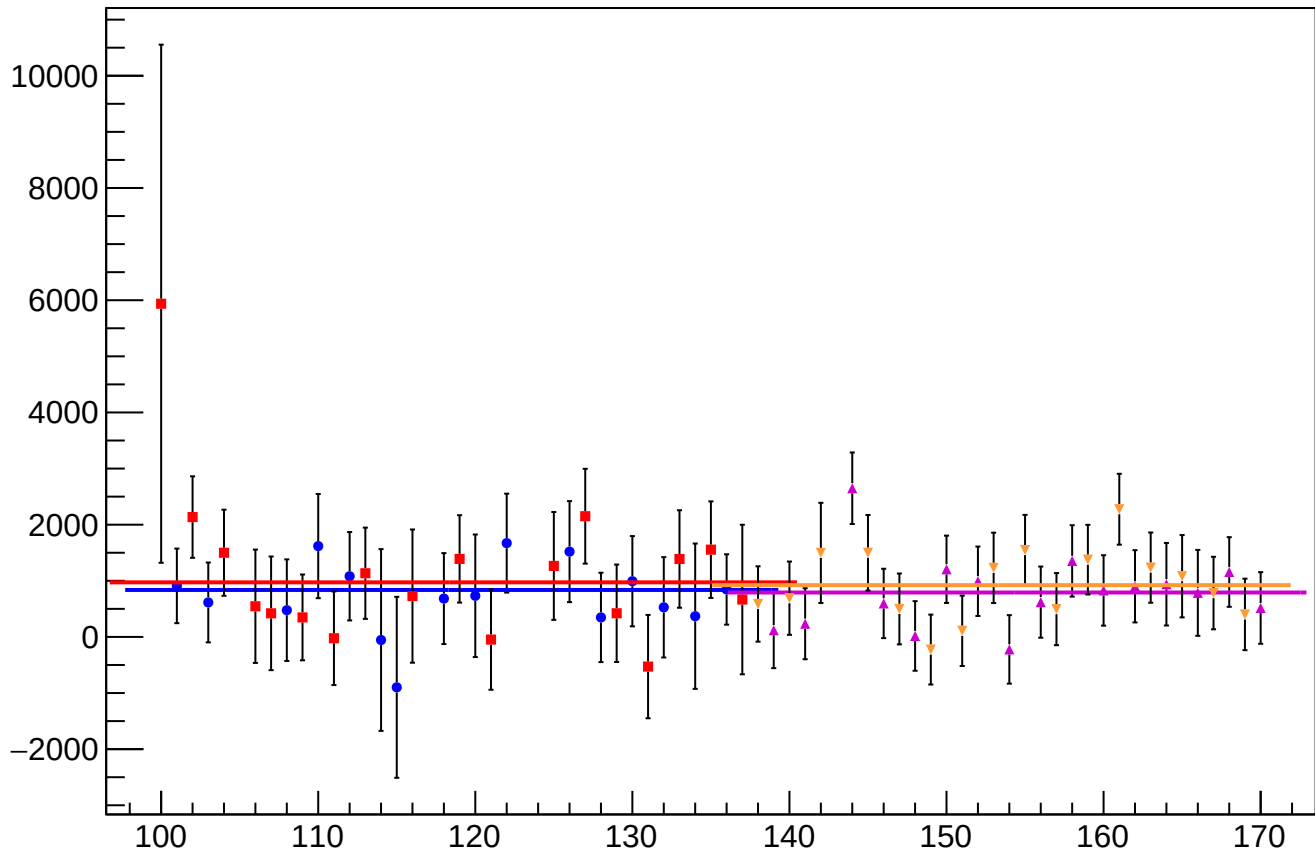
Right: 121.231 $\pm$ 0.024 χ^2/NDF : 1268326.7/35

In: 129.750 $\pm$ 0.021 χ^2/NDF : 886132.7/32

Out: 132.716 $\pm$ 0.021 χ^2/NDF : 672868.6/35

All: 131.229 $\pm$ 0.015 χ^2/NDF : 1568787.7/68

reg_asym_left_avg_mean vs Slug, Sign Corrected



Right In: 837.048 $\pm$ 216.181 χ^2 /NDF: 4.7/15

Left Out: 922.592 $\pm$ 163.183 χ^2 /NDF:14.9/15

Right Out: 972.425 $\pm$ 212.746 χ^2 /NDF: 14.3/17

Left In: 791.671 $\pm$ 160.215 χ^2 /NDF:16.7/15

Left: 855.930 $\pm$ 114.324 χ^2 /NDF: 31.9/31

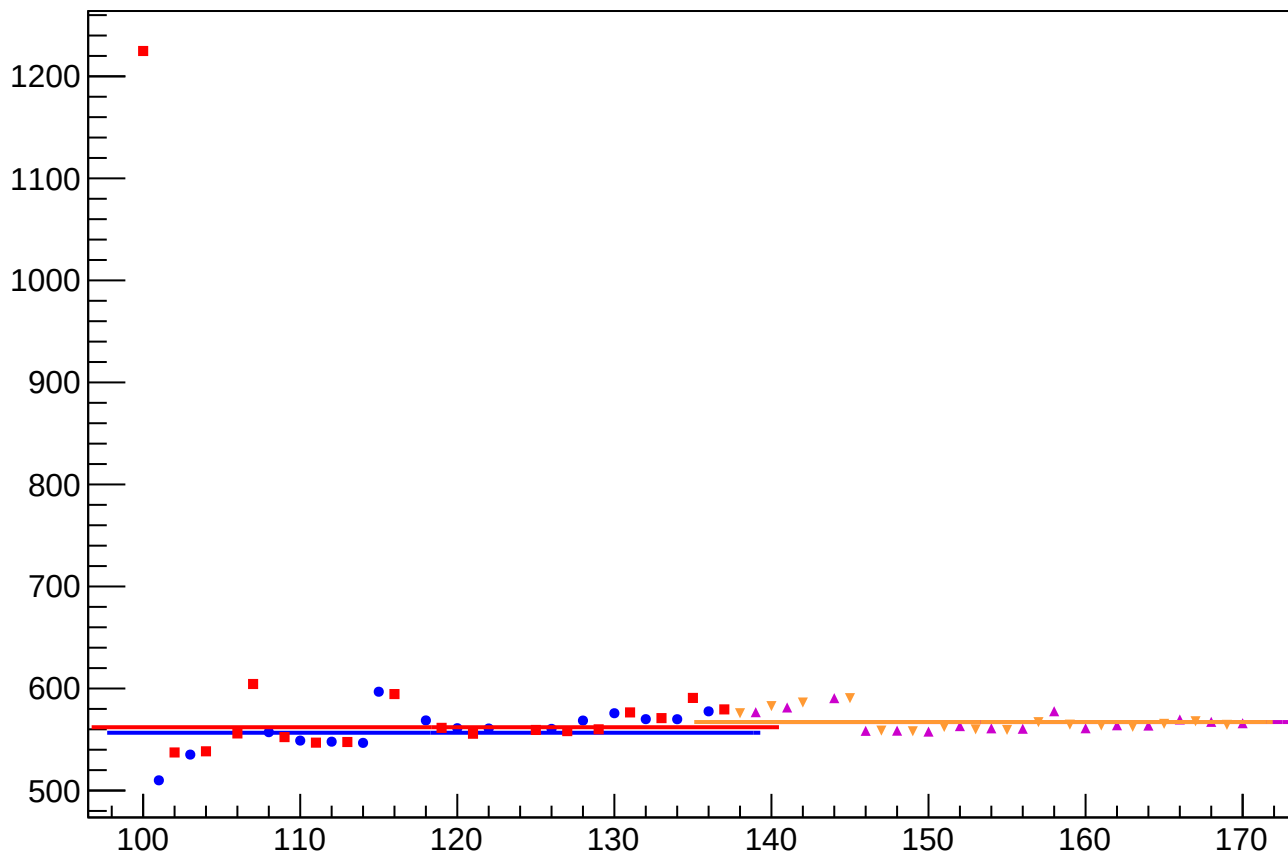
Right: 905.821 $\pm$ 151.634 χ^2 /NDF: 19.2/33

In: 807.758 $\pm$ 128.719 χ^2 /NDF:21.5/31

Out: 941.051 $\pm$ 129.480 χ^2 /NDF:29.2/33

All: 874.012 $\pm$ 91.286 χ^2 /NDF: 51.2/65

reg_asym_left_avg_rms vs Slug, Sign Corrected



Right In: 556.637 $\pm$ 0.153 χ^2 /NDF: 18391.7/15

Left Out: 567.149 $\pm$ 0.115 χ^2 /NDF: 6526.6/15

Right Out: 562.048 $\pm$ 0.150 χ^2 /NDF: 55575.3/17

Left In: 567.118 $\pm$ 0.113 χ^2 /NDF: 6736.5/15

Left: 567.133 $\pm$ 0.081 χ^2 /NDF: 13263.2/31

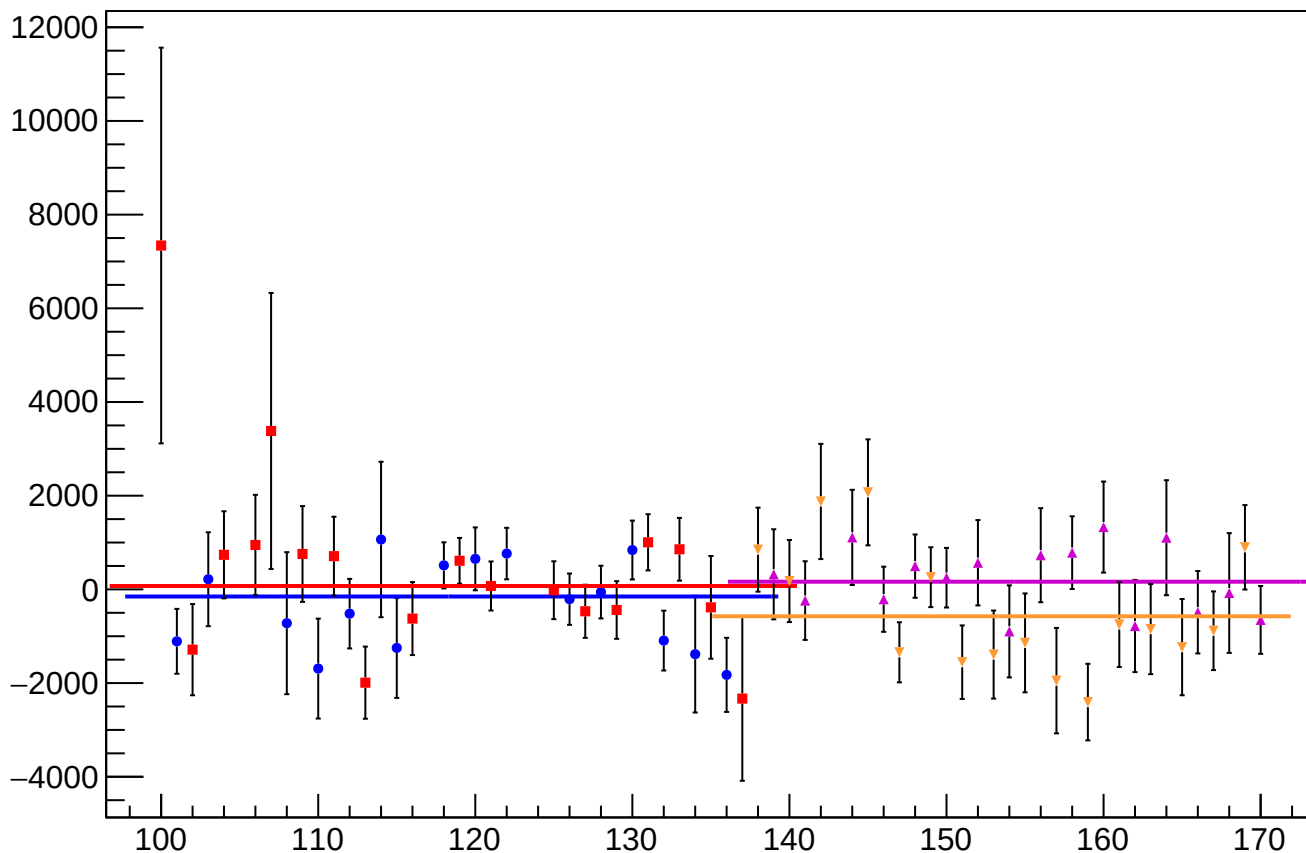
Right: 559.386 $\pm$ 0.107 χ^2 /NDF: 74603.5/33

In: 563.402 $\pm$ 0.091 χ^2 /NDF: 28162.4/31

Out: 565.259 $\pm$ 0.092 χ^2 /NDF: 62825.7/33

All: 564.325 $\pm$ 0.065 χ^2 /NDF: 91195.1/65

asym_left_avg_correction_mean vs Slug, Sign Corrected



Right In: -151.876 $\pm$ 180.078 χ^2/NDF : 22.3/15

Left Out: -574.419 $\pm$ 219.767 χ^2/NDF : 28.3/15

Right Out: 71.760 $\pm$ 178.665 χ^2/NDF : 25.0/17

Left In: 163.890 $\pm$ 214.867 χ^2/NDF : 8.8/15

Left: -196.942 $\pm$ 153.637 χ^2/NDF : 42.9/31

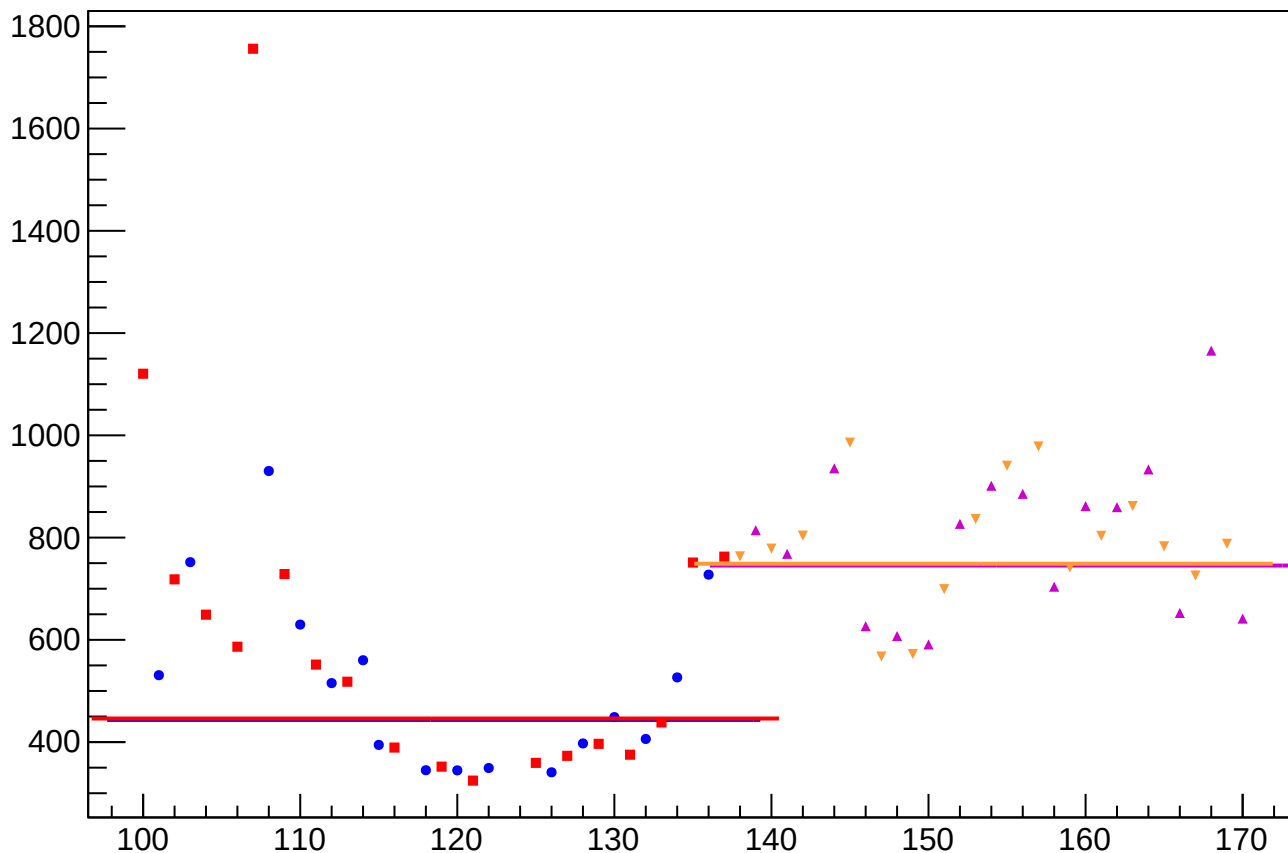
Right: -39.177 $\pm$ 126.832 χ^2/NDF : 48.1/33

In: -21.593 $\pm$ 138.016 χ^2/NDF : 32.4/31

Out: -185.373 $\pm$ 138.632 χ^2/NDF : 58.5/33

All: -103.118 $\pm$ 97.809 χ^2/NDF : 91.6/65

asym_left_avg_correction_rms vs Slug, Sign Corrected



Right In: 443.451+/-0.127 χ^2/NDF : 1060940.9/15

Left Out: 748.909+/-0.155 χ^2/NDF : 624298.1/15

Right Out: 446.147+/-0.126 χ^2/NDF : 1459986.4/17

Left In: 745.307+/-0.152 χ^2/NDF : 834235.5/15

Left: 747.067+/-0.109 χ^2/NDF : 1458808.5/31

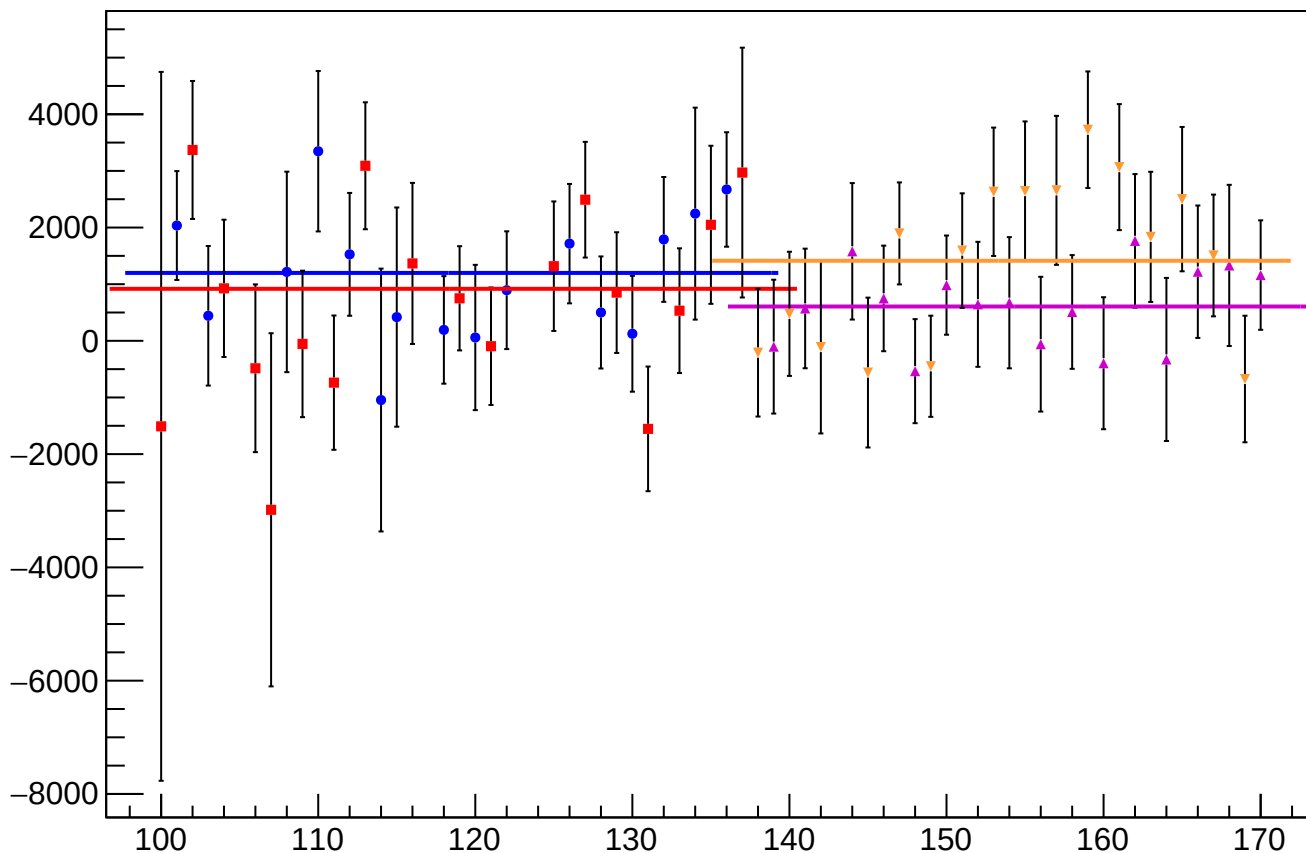
Right: 444.809+/-0.090 χ^2/NDF : 2521153.2/33

In: 567.994+/-0.098 χ^2/NDF : 4213794.2/31

Out: 566.625+/-0.098 χ^2/NDF : 4369669.3/33

All: 567.313+/-0.069 χ^2/NDF : 8583561.6/65

asym_left_avg_mean vs Slug, Sign Corrected



Right In: 1198.972 $\pm$ 295.243 χ^2 /NDF: 11.2/15

Left Out: 1413.634 $\pm$ 278.454 χ^2 /NDF:25.4/15

Right Out: 918.412 $\pm$ 293.294 χ^2 /NDF: 23.2/17

Left In: 605.923 $\pm$ 272.756 χ^2 /NDF:6.1/15

Left: 1001.429 $\pm$ 194.851 χ^2 /NDF: 35.8/31

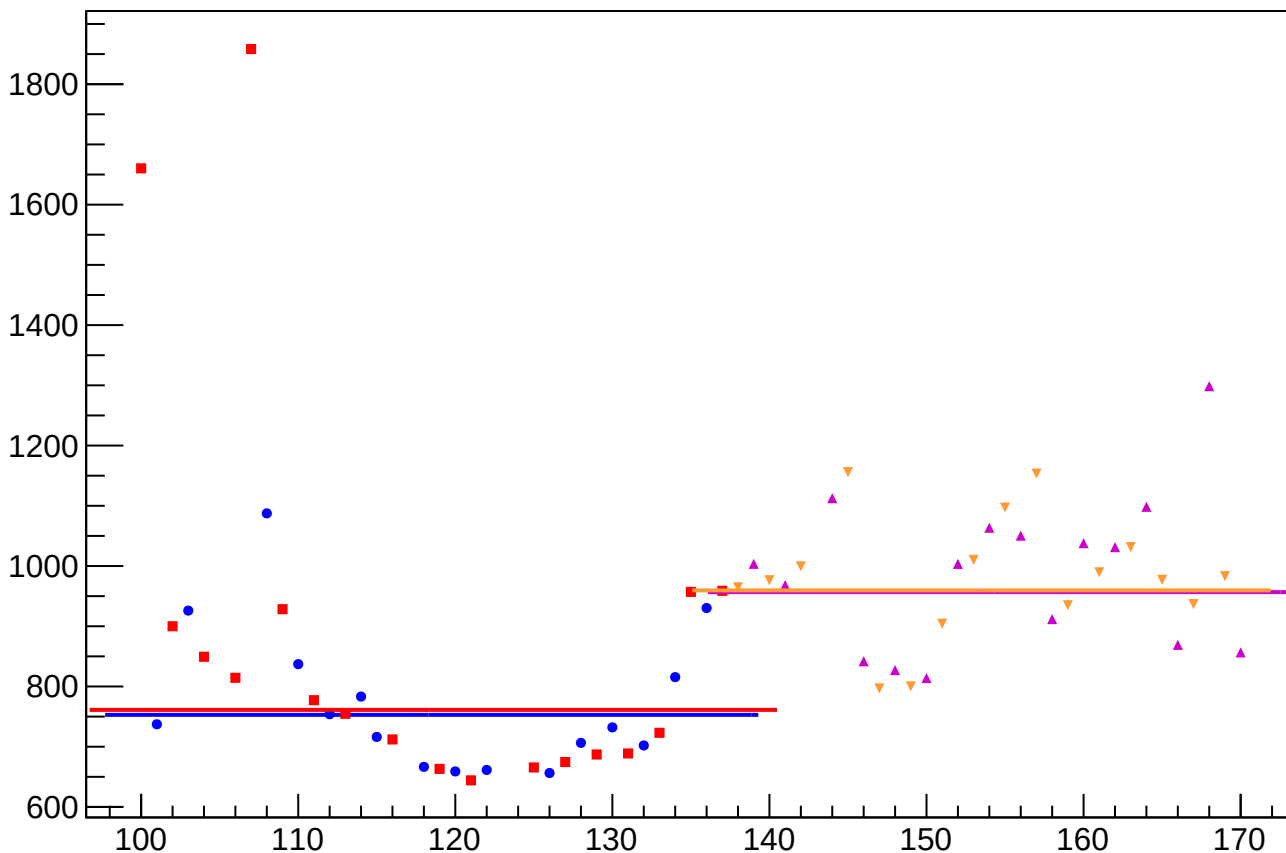
Right: 1057.763 $\pm$ 208.076 χ^2 /NDF: 34.9/33

In: 879.005 $\pm$ 200.346 χ^2 /NDF:19.5/31

Out: 1178.868 $\pm$ 201.939 χ^2 /NDF:50.1/33

All: 1027.749 $\pm$ 142.226 χ^2 /NDF: 70.7/65

asym_left_avg_rms vs Slug, Sign Corrected



Right In: 752.937+/-0.209 χ^2/NDF : 252526.4/15

Left Out: 959.586+/-0.197 χ^2/NDF : 266120.1/15

Right Out: 761.160+/-0.207 χ^2/NDF : 517136.7/17

Left In: 956.670+/-0.193 χ^2/NDF : 382430.5/15

Left: 958.098+/-0.138 χ^2/NDF : 648662.6/31

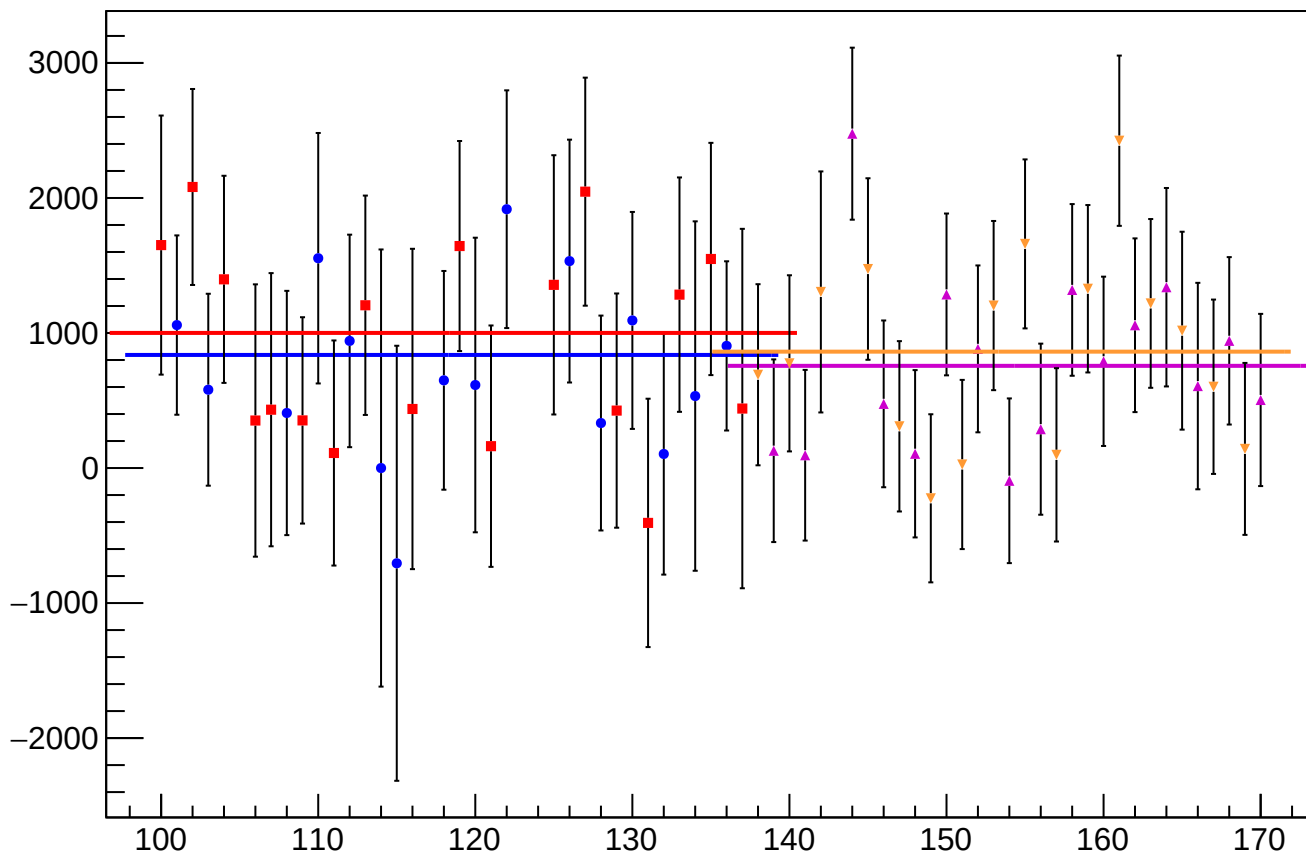
Right: 757.076+/-0.147 χ^2/NDF : 770443.9/33

In: 862.857+/-0.142 χ^2/NDF : 1148770.4/31

Out: 865.520+/-0.143 χ^2/NDF : 1264711.1/33

All: 864.178+/-0.101 χ^2/NDF : 2413656.9/65

reg_asym_left_dd_mean vs Slug, Sign Corrected



Right In: 837.557 $\pm$ 216.015 χ^2 /NDF: 5.7/15

Left Out: 861.941 $\pm$ 163.045 χ^2 /NDF:18.6/15

Right Out: 1000.617 $\pm$ 207.748 χ^2 /NDF: 12.5/17

Left In: 756.825 $\pm$ 160.083 χ^2 /NDF:15.8/15

Left: 808.420 $\pm$ 114.229 χ^2 /NDF: 34.6/31

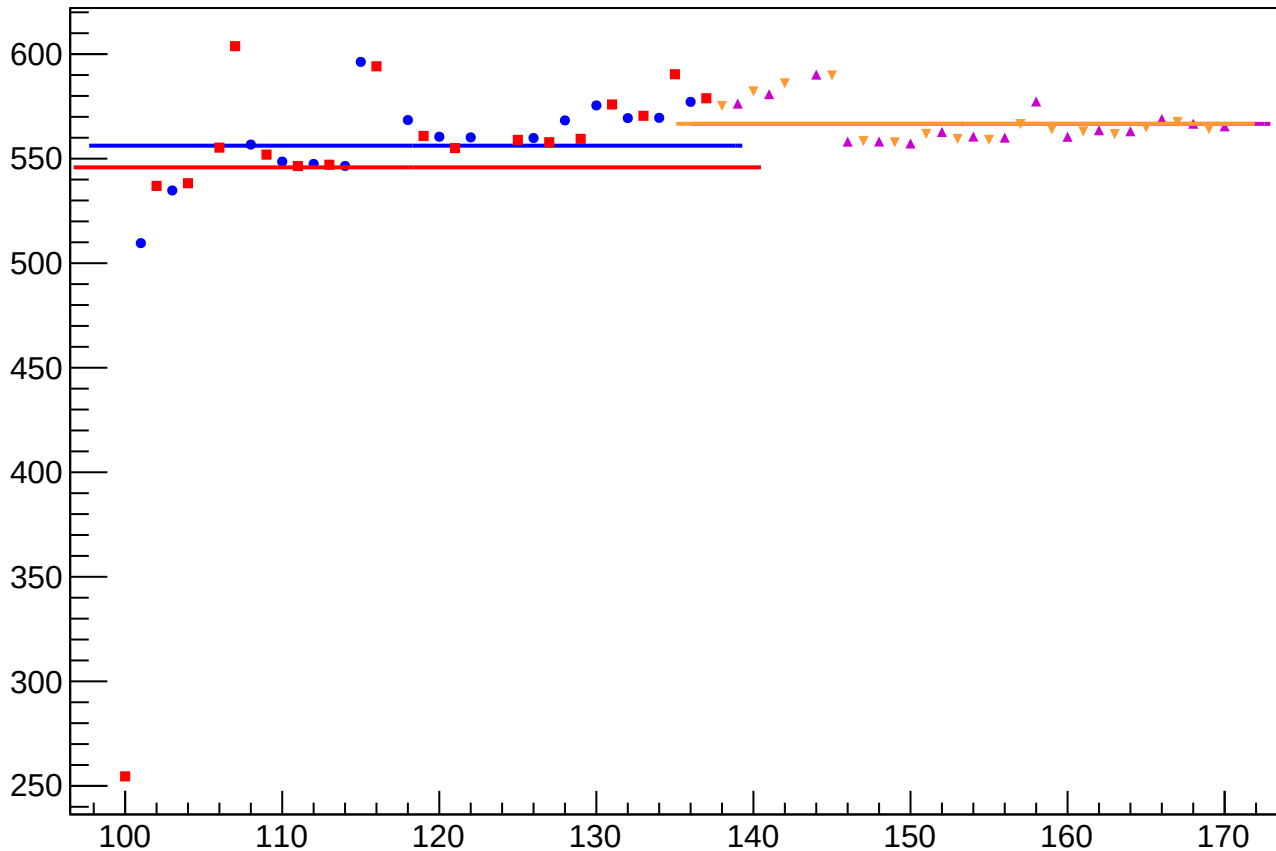
Right: 922.267 $\pm$ 149.737 χ^2 /NDF: 18.5/33

In: 785.445 $\pm$ 128.615 χ^2 /NDF:21.6/31

Out: 914.800 $\pm$ 128.261 χ^2 /NDF:31.4/33

All: 850.301 $\pm$ 90.819 χ^2 /NDF: 53.5/65

reg_asym_left_dd_rms vs Slug, Sign Corrected



Right In: 556.210 $\pm$ 0.153 χ^2 /NDF: 18417.4/15

Left Out: 566.668 $\pm$ 0.115 χ^2 /NDF: 6479.0/15

Right Out: 545.844 $\pm$ 0.147 χ^2 /NDF: 207640.3/17

Left In: 566.649 $\pm$ 0.113 χ^2 /NDF: 6766.5/15

Left: 566.658 $\pm$ 0.081 χ^2 /NDF: 13245.6/31

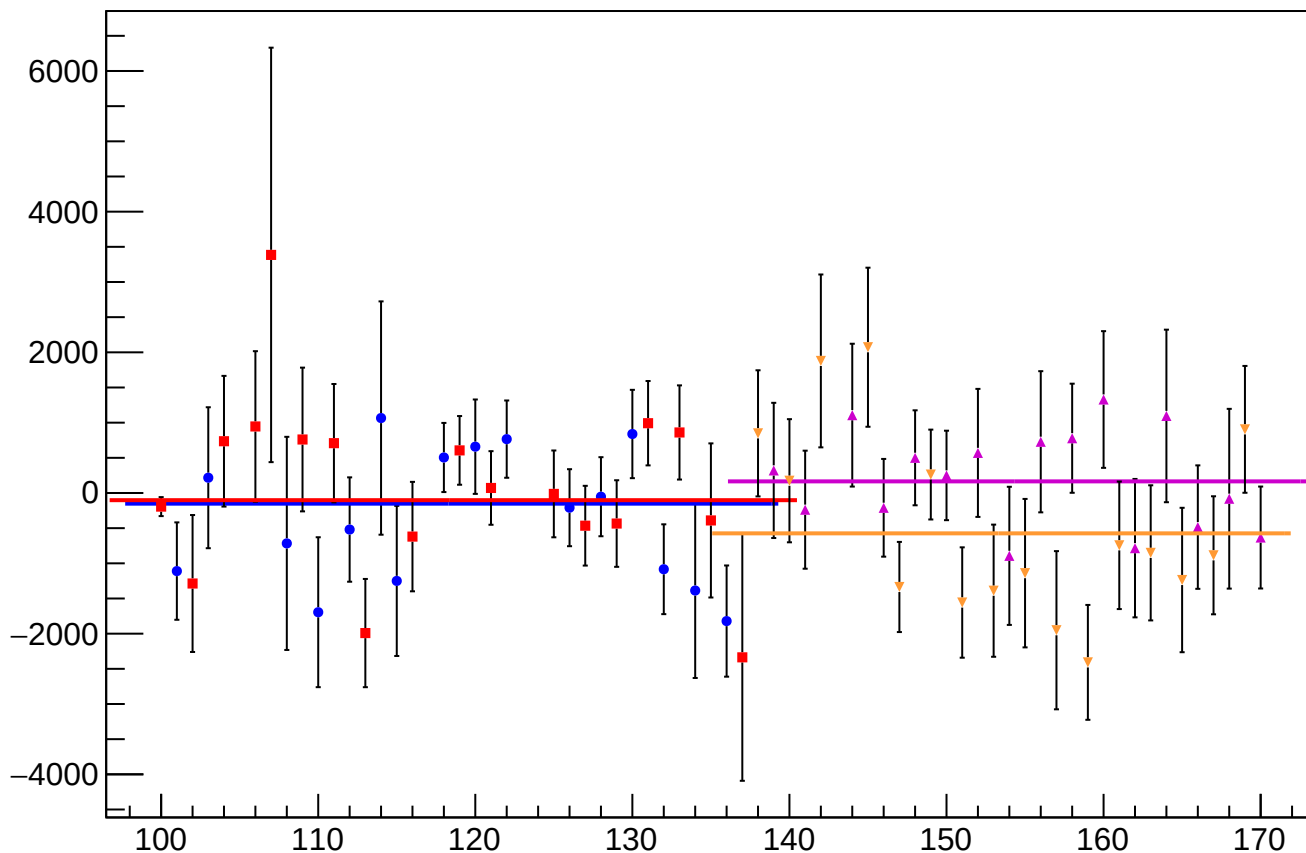
Right: 550.825 $\pm$ 0.106 χ^2 /NDF: 228450.1/33

In: 562.948 $\pm$ 0.091 χ^2 /NDF: 28198.6/31

Out: 558.731 $\pm$ 0.091 χ^2 /NDF: 226553.9/33

All: 560.834 $\pm$ 0.064 χ^2 /NDF: 255830.8/65

asym_left_dd_correction_mean vs Slug, Sign Corrected



Right In: -151.459 $\pm$ 179.991 χ^2/NDF : 22.3/15

Left Out: -573.775 $\pm$ 219.669 χ^2/NDF : 28.4/15

Right Out: -102.079 $\pm$ 107.707 χ^2/NDF : 23.2/17

Left In: 165.249 $\pm$ 214.768 χ^2/NDF : 8.7/15

Left: -195.927 $\pm$ 153.567 χ^2/NDF : 42.9/31

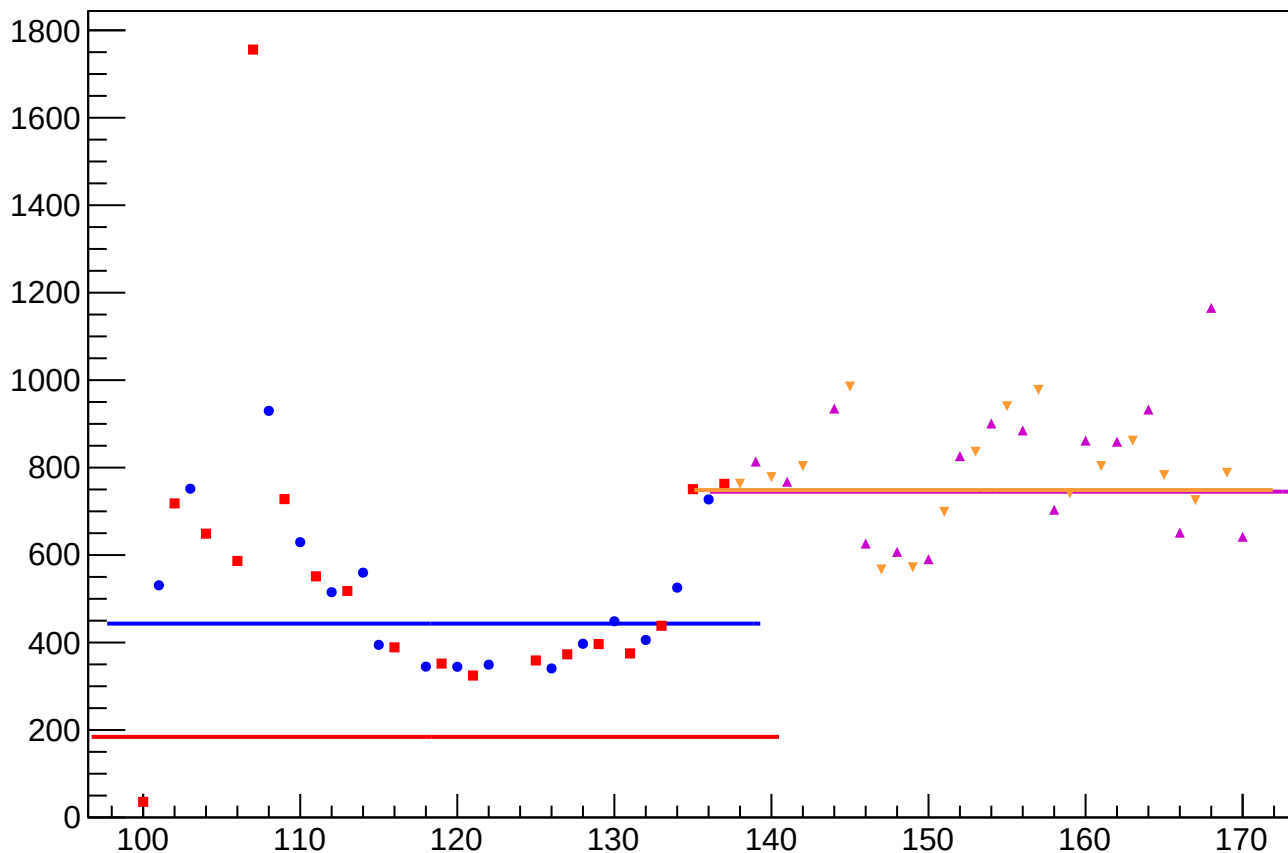
Right: -115.099 $\pm$ 92.423 χ^2/NDF : 45.6/33

In: -20.791 $\pm$ 137.951 χ^2/NDF : 32.3/31

Out: -193.501 $\pm$ 96.708 χ^2/NDF : 55.3/33

All: -136.591 $\pm$ 79.188 χ^2/NDF : 88.6/65

asym_left_dd_correction_rms vs Slug, Sign Corrected



Right In: 443.240+/-0.127 χ^2/NDF : 1060784.8/15

Left Out: 748.589+/-0.155 χ^2/NDF : 624809.8/15

Right Out: 184.215+/-0.076 χ^2/NDF : 8079776.8/17

Left In: 744.959+/-0.152 χ^2/NDF : 834467.1/15

Left: 746.733+/-0.109 χ^2/NDF : 1459556.1/31

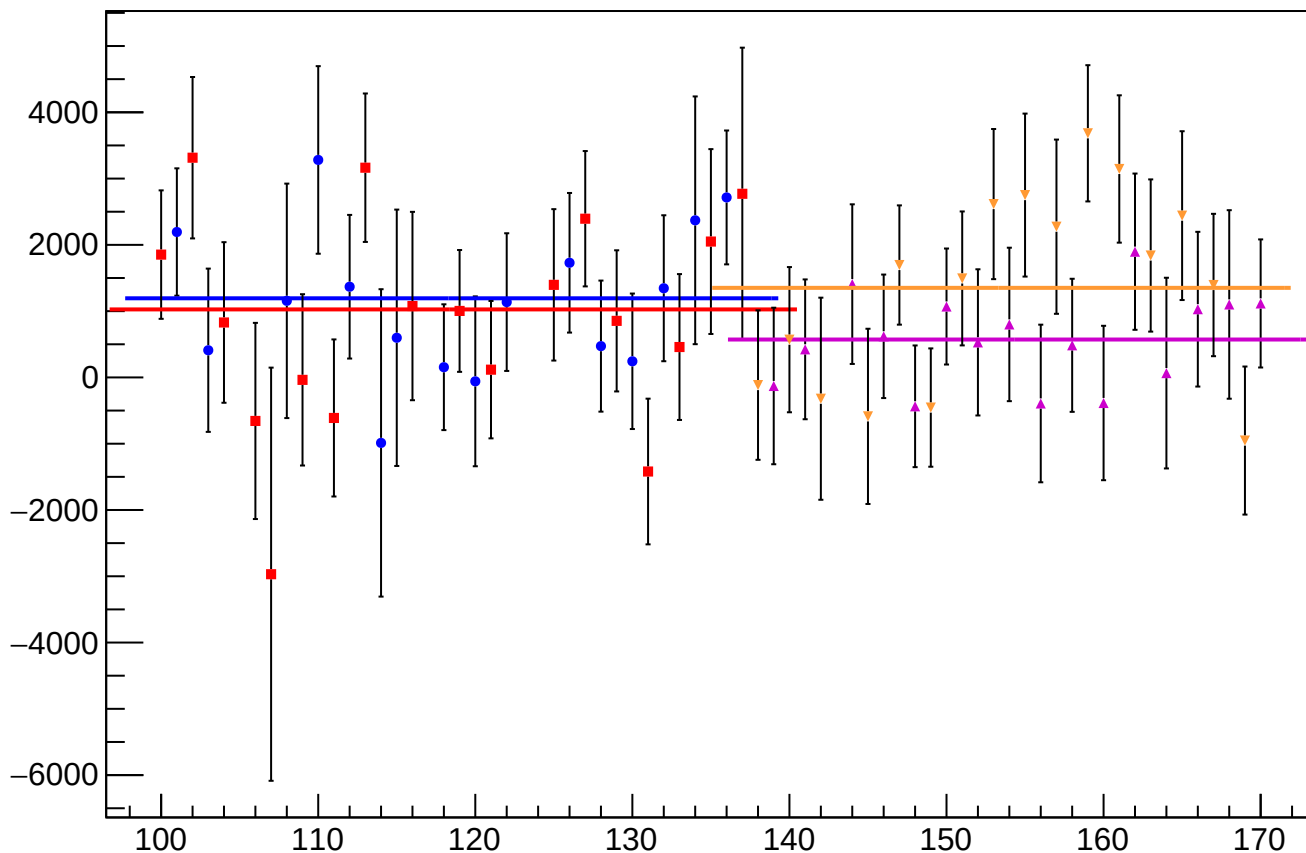
Right: 252.512+/-0.065 χ^2/NDF : 12190461.3/33

In: 567.724+/-0.098 χ^2/NDF : 4213948.2/31

Out: 293.599+/-0.068 χ^2/NDF : 19347492.6/33

All: 383.926+/-0.056 χ^2/NDF : 28856498.5/65

asym_left_dd_mean vs Slug, Sign Corrected



Right In: 1193.849 $\pm$ 295.046 χ^2 /NDF: 11.2/15

Left Out: 1351.414 $\pm$ 278.290 χ^2 /NDF:25.8/15

Right Out: 1026.130 $\pm$ 280.822 χ^2 /NDF: 22.5/17

Left In: 571.847 $\pm$ 272.594 χ^2 /NDF:5.8/15

Left: 953.571 $\pm$ 194.736 χ^2 /NDF: 35.5/31

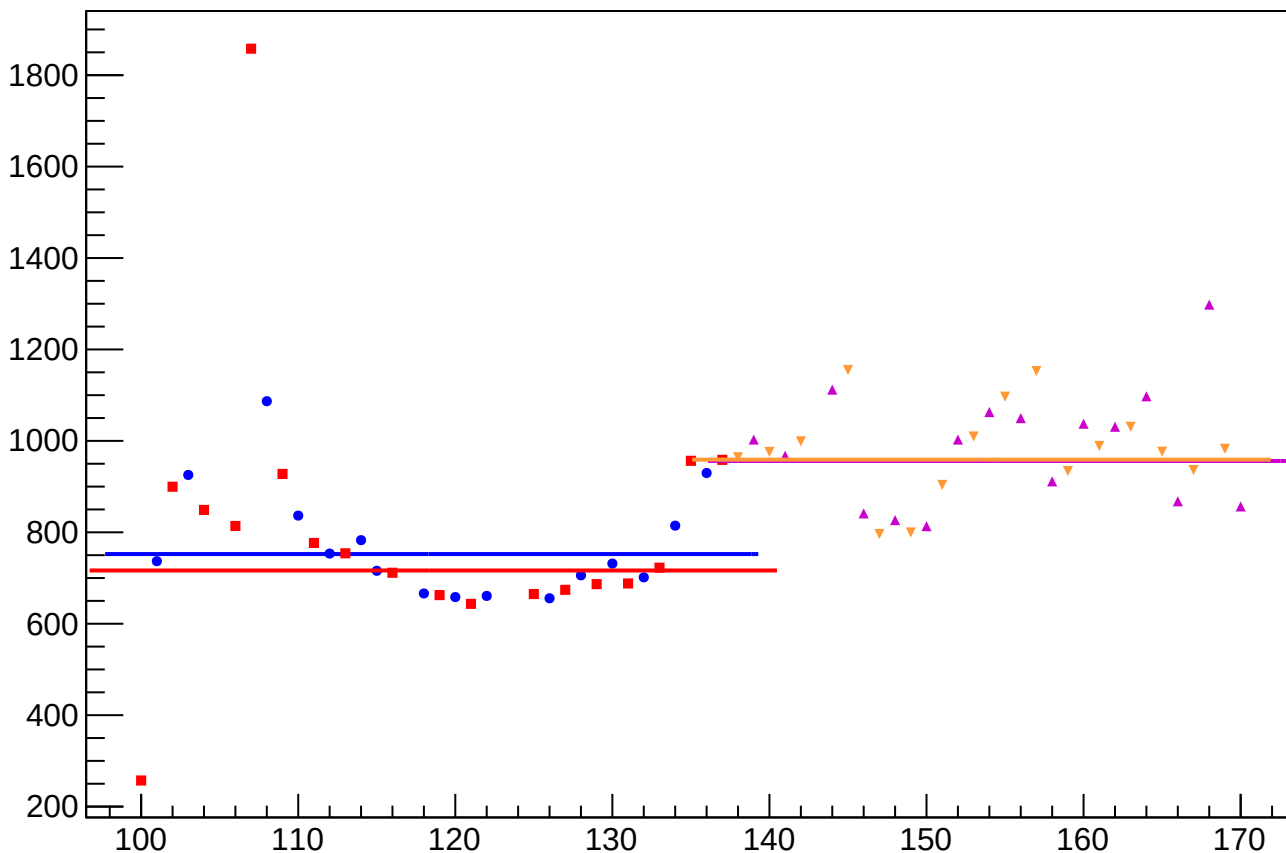
Right: 1105.849 $\pm$ 203.414 χ^2 /NDF: 33.9/33

In: 858.285 $\pm$ 200.221 χ^2 /NDF:19.3/31

Out: 1190.245 $\pm$ 197.670 χ^2 /NDF:49.0/33

All: 1026.393 $\pm$ 140.667 χ^2 /NDF: 69.7/65

asym_left_dd_rms vs Slug, Sign Corrected



Right In: 752.429+/-0.209 χ^2/NDF : 252705.1/15

Left Out: 959.029+/-0.197 χ^2/NDF : 266073.3/15

Right Out: 716.522+/-0.199 χ^2/NDF : 966934.7/17

Left In: 956.096+/-0.193 χ^2/NDF : 382686.2/15

Left: 957.532+/-0.138 χ^2/NDF : 648872.9/31

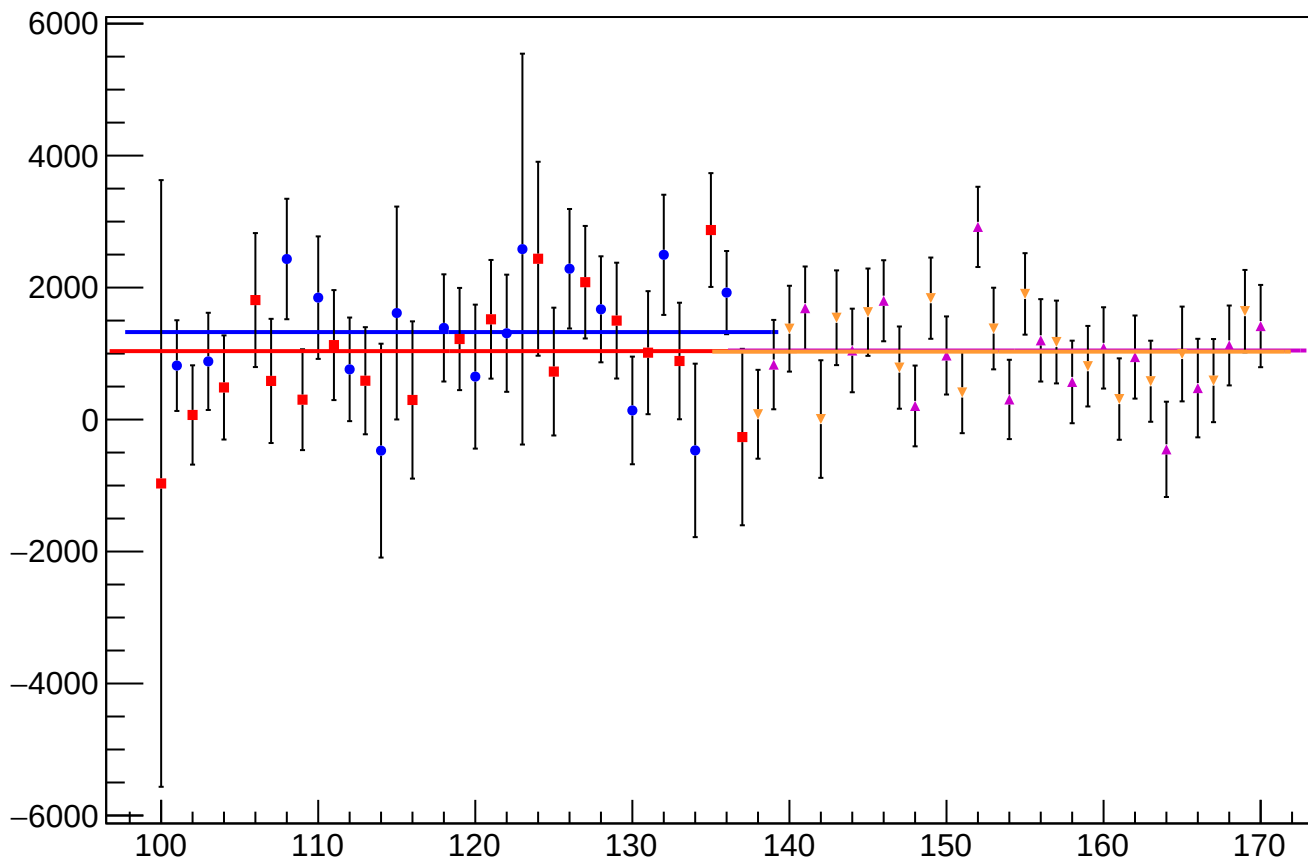
Right: 733.589+/-0.144 χ^2/NDF : 1235181.4/33

In: 862.305+/-0.142 χ^2/NDF : 1149528.3/31

Out: 838.874+/-0.140 χ^2/NDF : 1985498.7/33

All: 850.439+/-0.099 χ^2/NDF : 3148898.4/65

reg_asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1325.776 $\pm$ 218.106 χ^2 /NDF: 12.9/16

Left Out: 1029.358 $\pm$ 156.830 χ^2 /NDF:13.7/16

Right Out: 1037.028 $\pm$ 211.583 χ^2 /NDF: 13.4/18

Left In: 1046.398 $\pm$ 157.875 χ^2 /NDF:21.5/15

Left: 1037.821 $\pm$ 111.263 χ^2 /NDF: 35.1/32

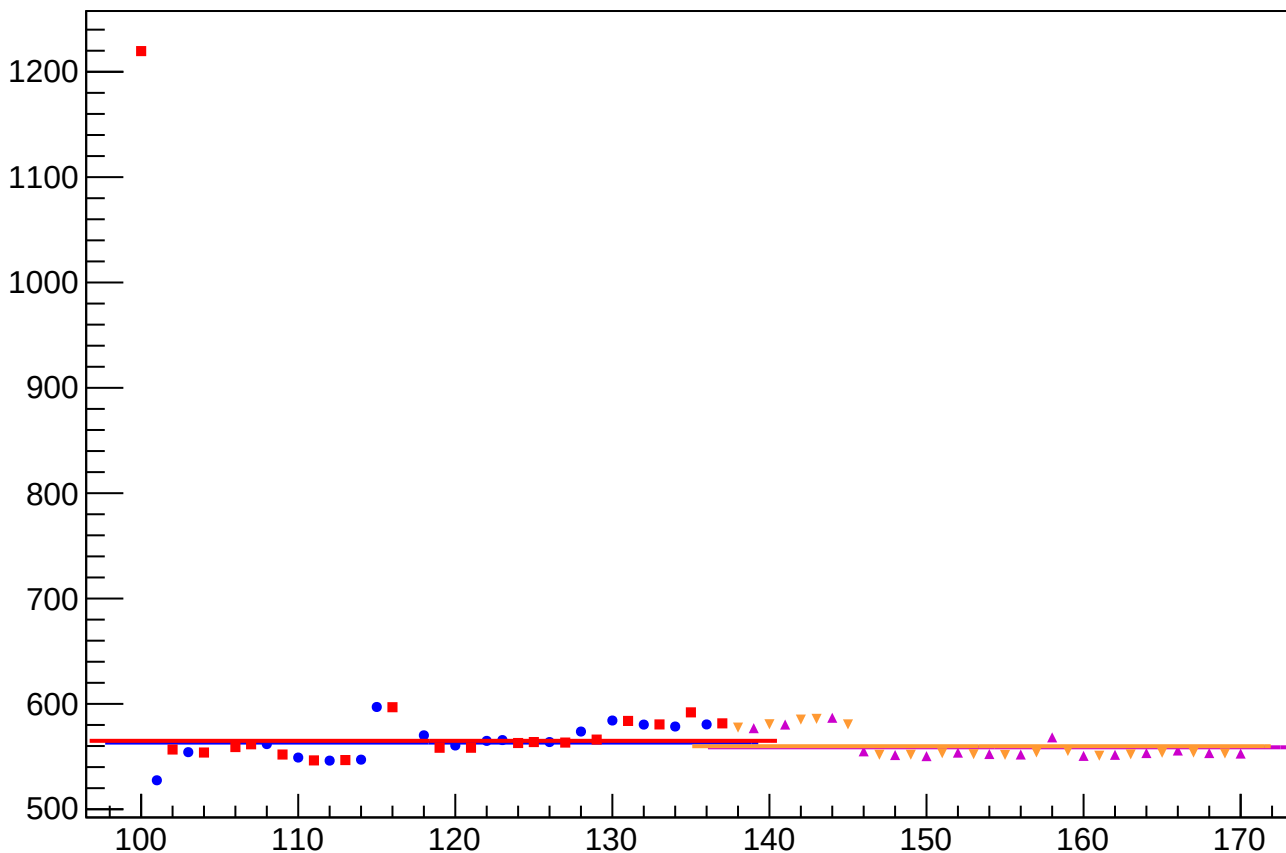
Right: 1177.020 $\pm$ 151.865 χ^2 /NDF: 27.2/35

In: 1142.452 $\pm$ 127.887 χ^2 /NDF:35.4/32

Out: 1032.077 $\pm$ 125.993 χ^2 /NDF:27.1/35

All: 1086.441 $\pm$ 89.753 χ^2 /NDF: 62.9/68

reg_asym_right_avg_rms vs Slug, Sign Corrected



Right In: 563.266 $\pm$ 0.154 χ^2 /NDF: 12520.3/16

Left Out: 559.817 $\pm$ 0.111 χ^2 /NDF:12797.7/16

Right Out: 564.944 $\pm$ 0.150 χ^2 /NDF: 49295.9/18

Left In: 558.790 $\pm$ 0.112 χ^2 /NDF:10619.1/15

Left: 559.307 $\pm$ 0.079 χ^2 /NDF: 23459.4/32

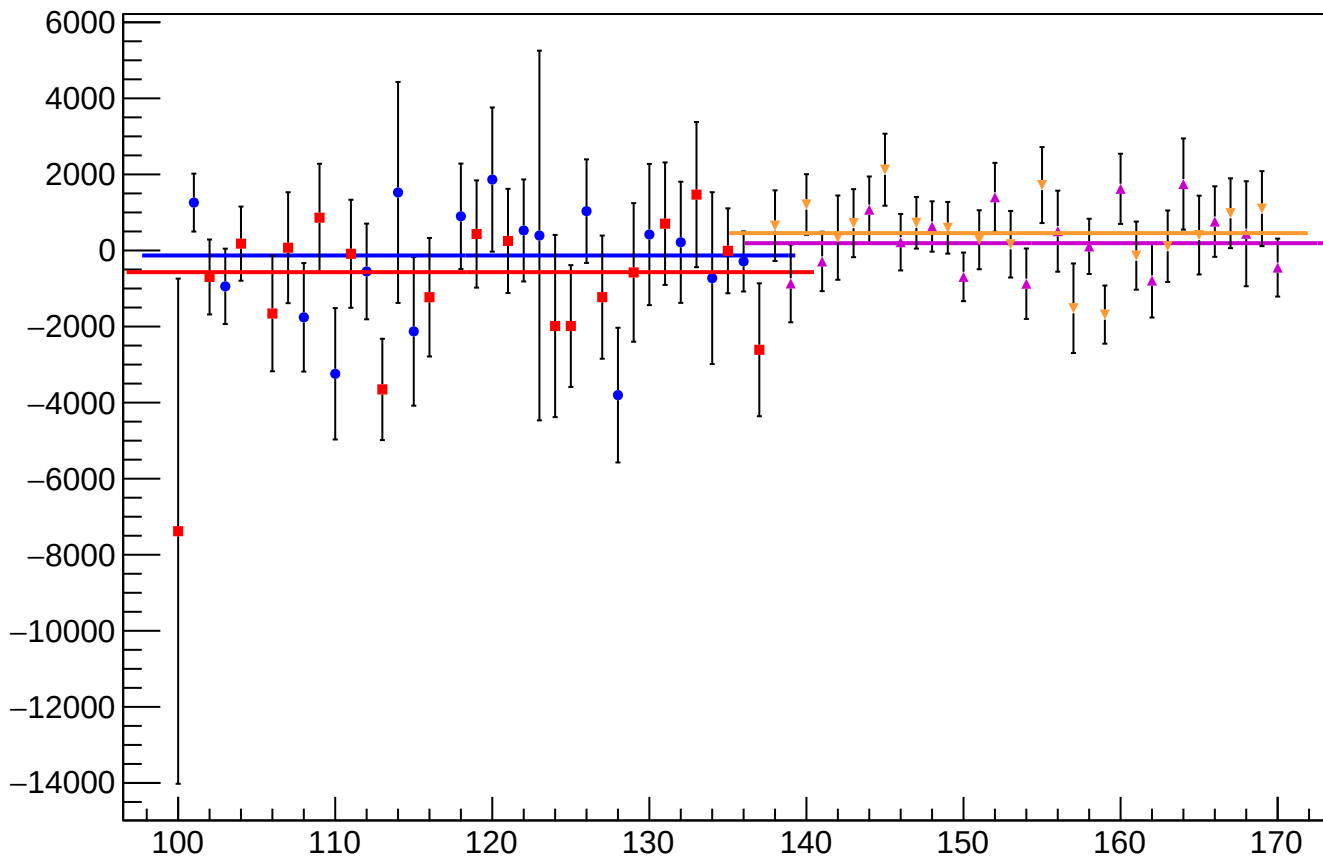
Right: 564.130 $\pm$ 0.107 χ^2 /NDF: 61877.2/35

In: 560.329 $\pm$ 0.090 χ^2 /NDF:23691.9/32

Out: 561.635 $\pm$ 0.089 χ^2 /NDF:62851.6/35

All: 560.992 $\pm$ 0.063 χ^2 /NDF: 86649.4/68

asym_right_avg_correction_mean vs Slug, Sign Corrected



Right In: -131.097+/-327.588 χ^2/NDF : 17.2/16

Left Out: 456.847+/-212.330 χ^2/NDF : 18.1/16

Right Out: -569.844+/-332.404 χ^2/NDF : 14.6/18

Left In: 191.984+/-213.449 χ^2/NDF : 14.2/15

Left: 325.112+/-150.534 χ^2/NDF : 33.1/32

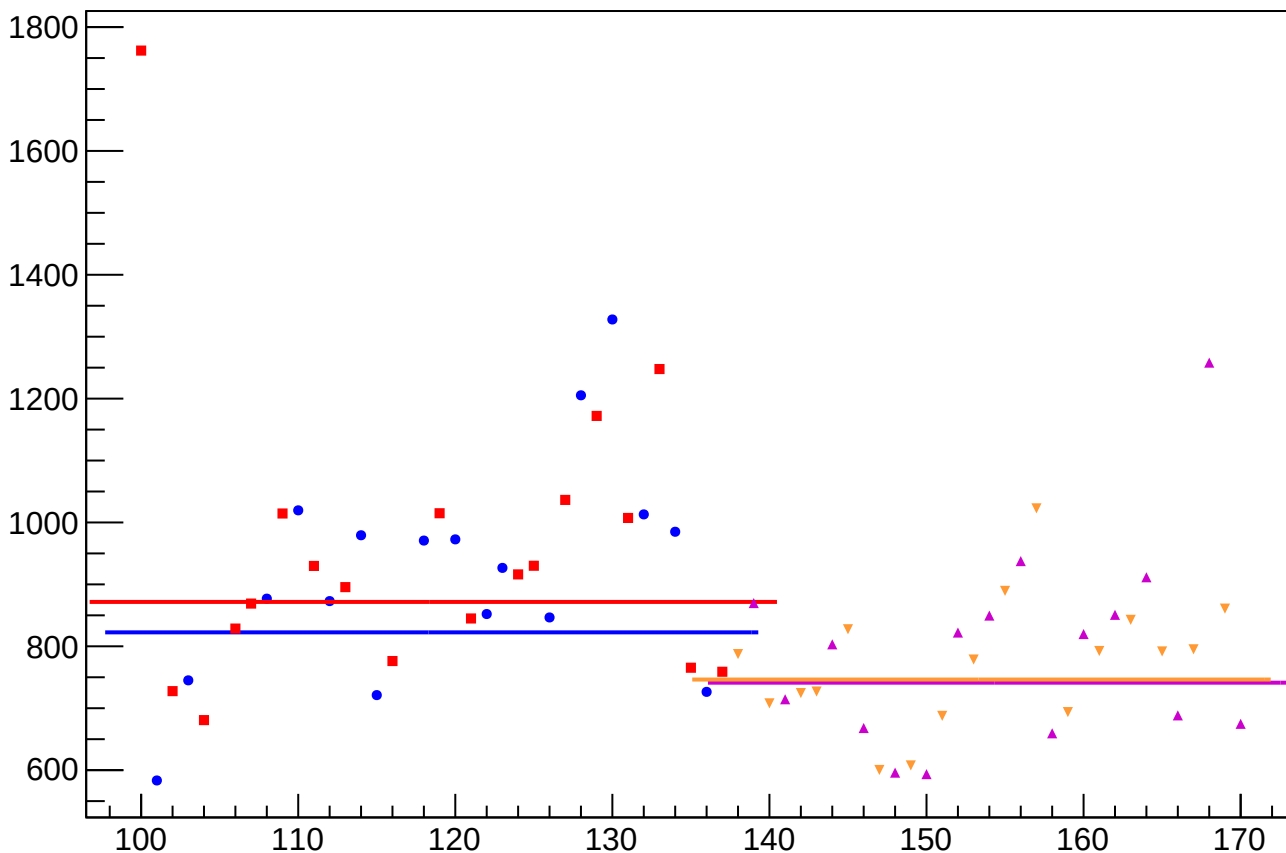
Right: -347.269+/-233.324 χ^2/NDF : 32.7/35

In: 95.697+/-178.836 χ^2/NDF : 32.1/32

Out: 159.325+/-178.939 χ^2/NDF : 39.5/35

All: 127.493+/-126.493 χ^2/NDF : 71.7/68

asym_right_avg_correction_rms vs Slug, Sign Corrected



Right In: 822.527+/-0.232 χ^2/NDF : 600956.1/16

Left Out: 746.334+/-0.150 χ^2/NDF : 438817.2/16

Right Out: 871.679+/-0.235 χ^2/NDF : 406857.8/18

Left In: 741.265+/-0.151 χ^2/NDF : 785484.1/15

Left: 743.813+/-0.106 χ^2/NDF : 1224868.2/32

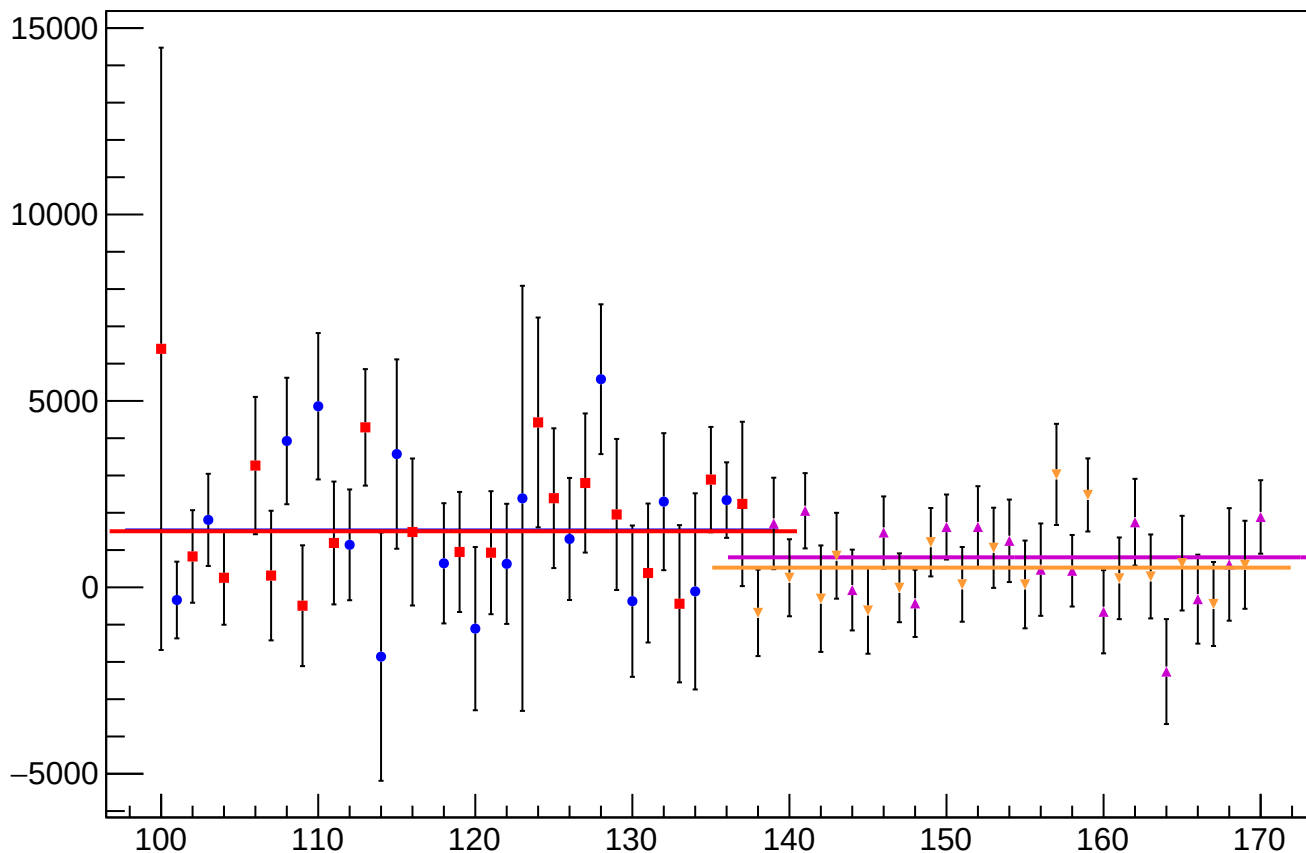
Right: 846.744+/-0.165 χ^2/NDF : 1029998.2/35

In: 765.483+/-0.126 χ^2/NDF : 1472830.3/32

Out: 782.658+/-0.127 χ^2/NDF : 1047649.9/35

All: 774.066+/-0.089 χ^2/NDF : 2529697.1/68

asym_right_avg_mean vs Slug, Sign Corrected



Right In: 1525.470 $\pm$ 401.784 χ^2/NDF : 18.2/16

Left Out: 529.038 $\pm$ 267.777 χ^2/NDF : 12.3/16

Right Out: 1504.406 $\pm$ 399.953 χ^2/NDF : 12.1/18

Left In: 805.537 $\pm$ 270.004 χ^2/NDF : 16.1/15

Left: 666.142 $\pm$ 190.130 χ^2/NDF : 28.9/32

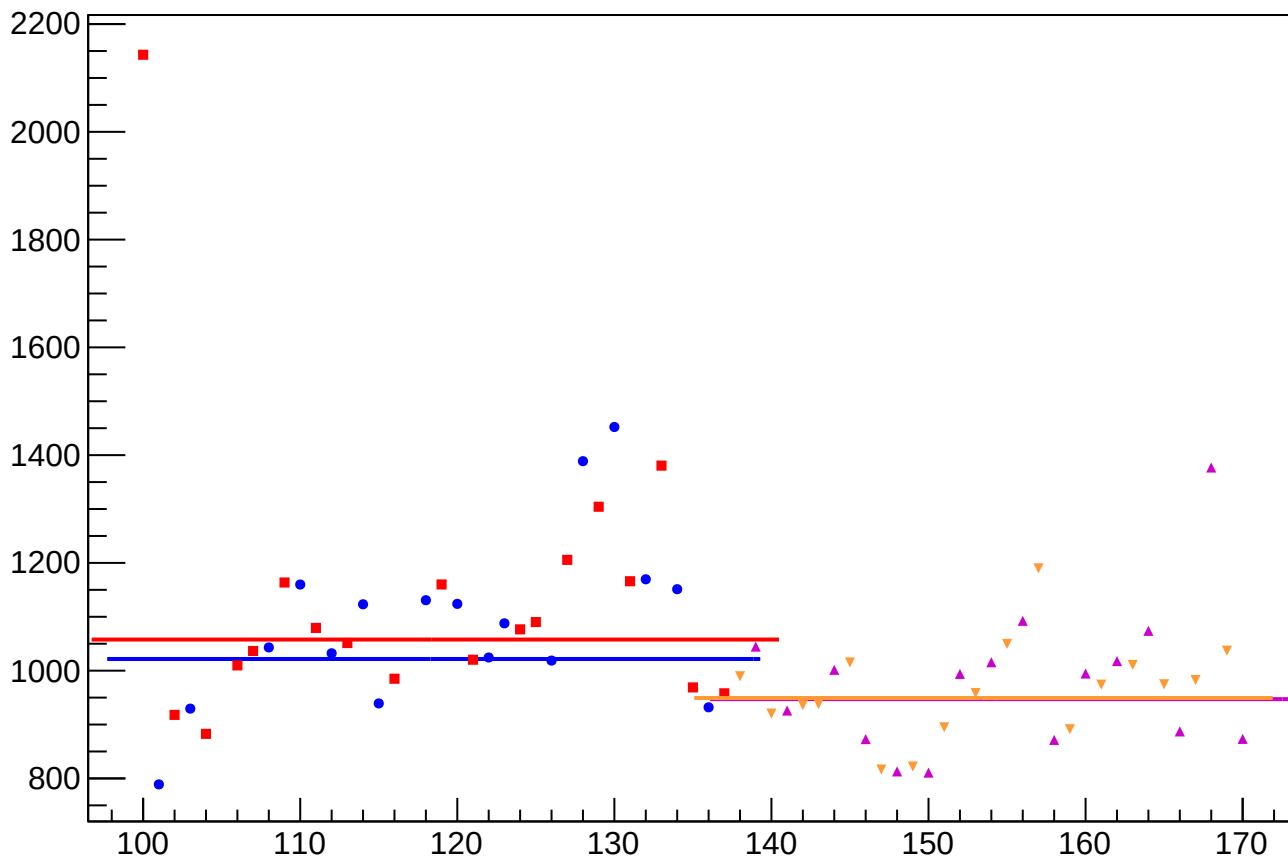
Right: 1514.890 $\pm$ 283.454 χ^2/NDF : 30.4/35

In: 1029.513 $\pm$ 224.102 χ^2/NDF : 36.5/32

Out: 830.930 $\pm$ 222.510 χ^2/NDF : 28.5/35

All: 929.513 $\pm$ 157.898 χ^2/NDF : 65.4/68

asym_right_avg_rms vs Slug, Sign Corrected



Right In: 1021.665 $\pm$ 0.284 χ^2/NDF : 331949.3/16

Left Out: 949.299 $\pm$ 0.189 χ^2/NDF : 201830.6/16

Right Out: 1057.748 $\pm$ 0.283 χ^2/NDF : 230944.1/18

Left In: 947.178 $\pm$ 0.191 χ^2/NDF : 380339.3/15

Left: 948.247 $\pm$ 0.134 χ^2/NDF : 582232.1/32

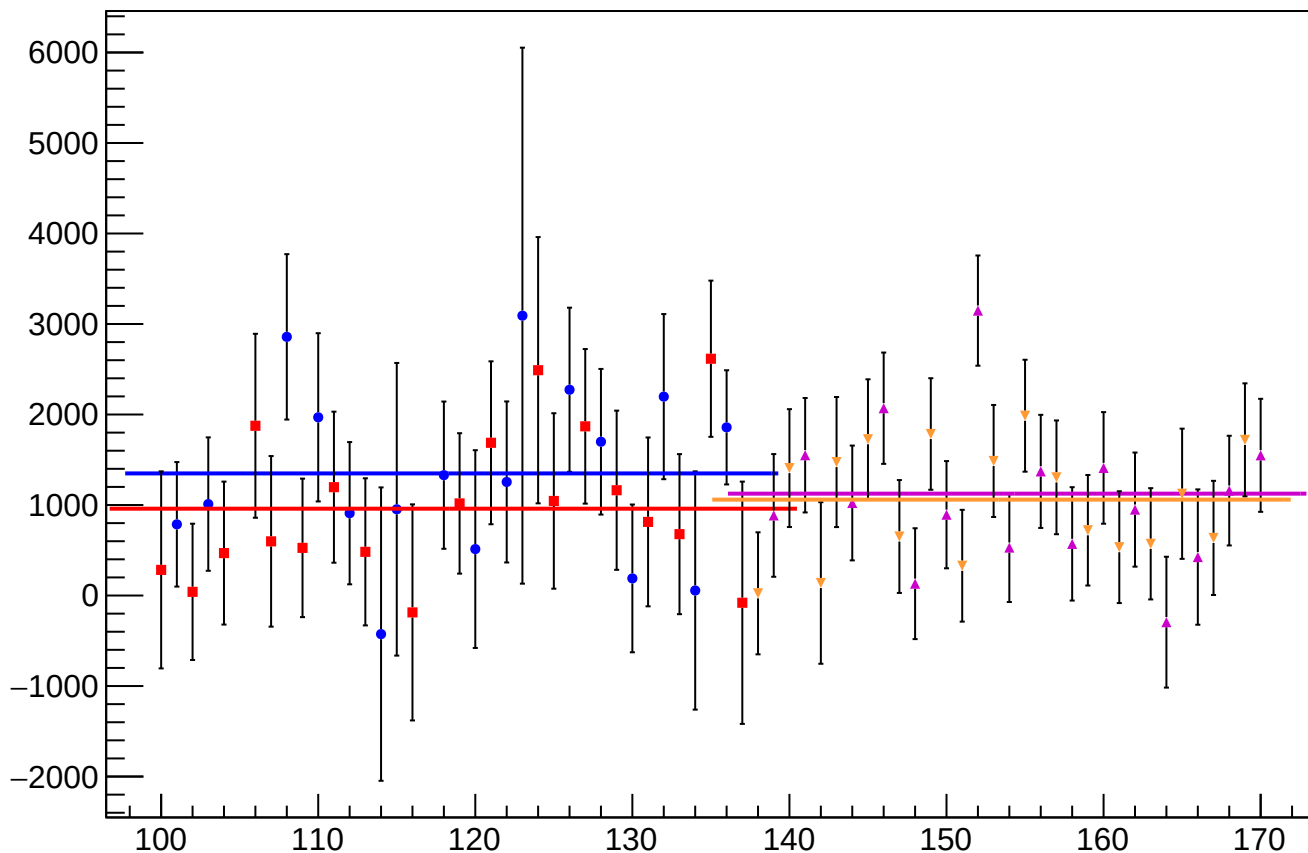
Right: 1039.788 $\pm$ 0.200 χ^2/NDF : 570995.5/35

In: 970.352 $\pm$ 0.158 χ^2/NDF : 759641.8/32

Out: 982.865 $\pm$ 0.157 χ^2/NDF : 534310.1/35

All: 976.653 $\pm$ 0.112 χ^2/NDF : 1297092.1/68

reg_asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1349.156+/-218.361 χ^2/NDF : 12.3/16

Left Out: 1059.554+/-156.992 χ^2/NDF :14.4/16

Right Out: 959.496+/-208.143 χ^2/NDF : 12.2/18

Left In: 1125.699+/-158.048 χ^2/NDF :24.2/15

Left: 1092.405+/-111.382 χ^2/NDF : 38.7/32

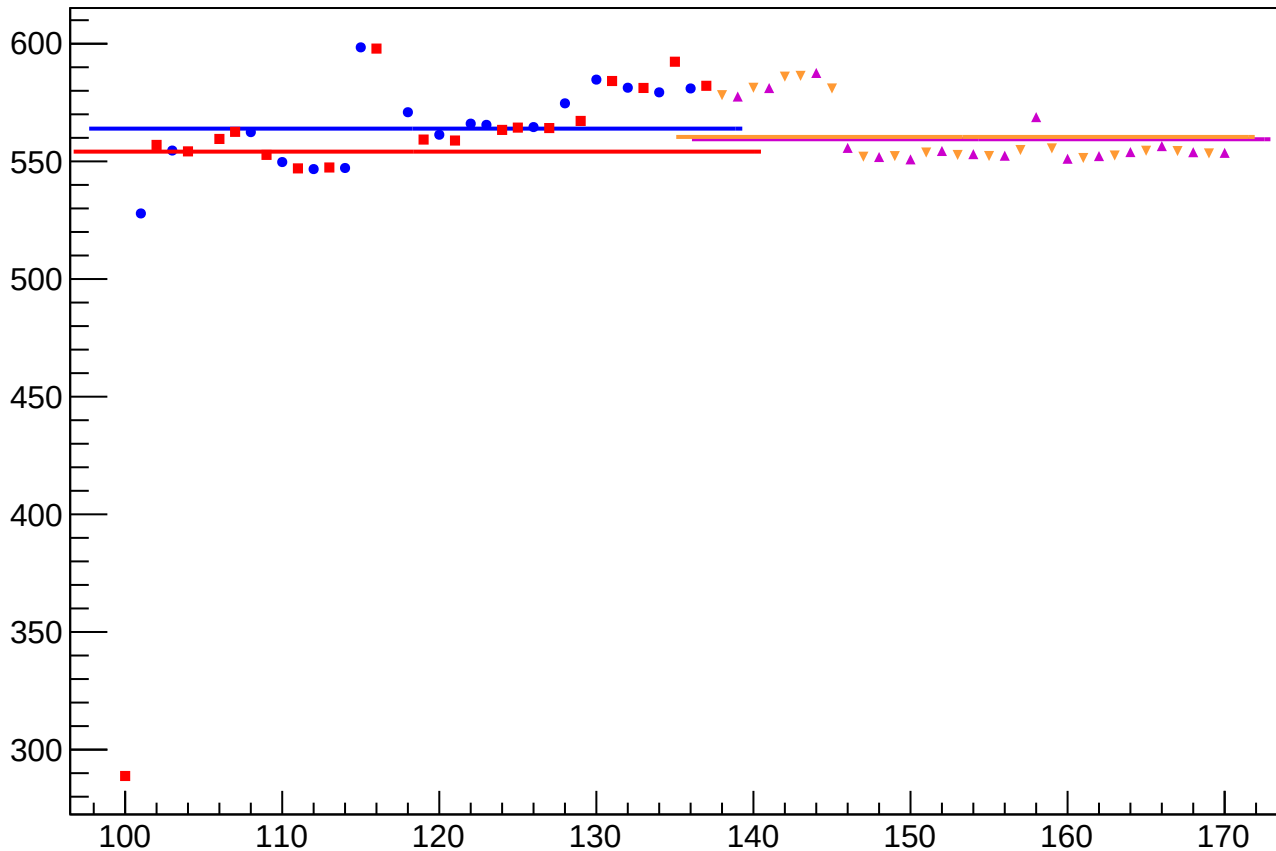
Right: 1144.995+/-150.662 χ^2/NDF : 26.2/35

In: 1202.518+/-128.031 χ^2/NDF :37.2/32

Out: 1023.272+/-125.337 χ^2/NDF :26.8/35

All: 1110.990+/-89.564 χ^2/NDF : 65.0/68

reg_asym_right_dd_rms vs Slug, Sign Corrected



Right In: 563.922 $\pm$ 0.154 χ^2 /NDF: 12663.1/16

Left Out: 560.391 $\pm$ 0.111 χ^2 /NDF:12829.7/16

Right Out: 554.145 $\pm$ 0.147 χ^2 /NDF: 131965.1/18

Left In: 559.403 $\pm$ 0.112 χ^2 /NDF:10699.6/15

Left: 559.900 $\pm$ 0.079 χ^2 /NDF: 23568.6/32

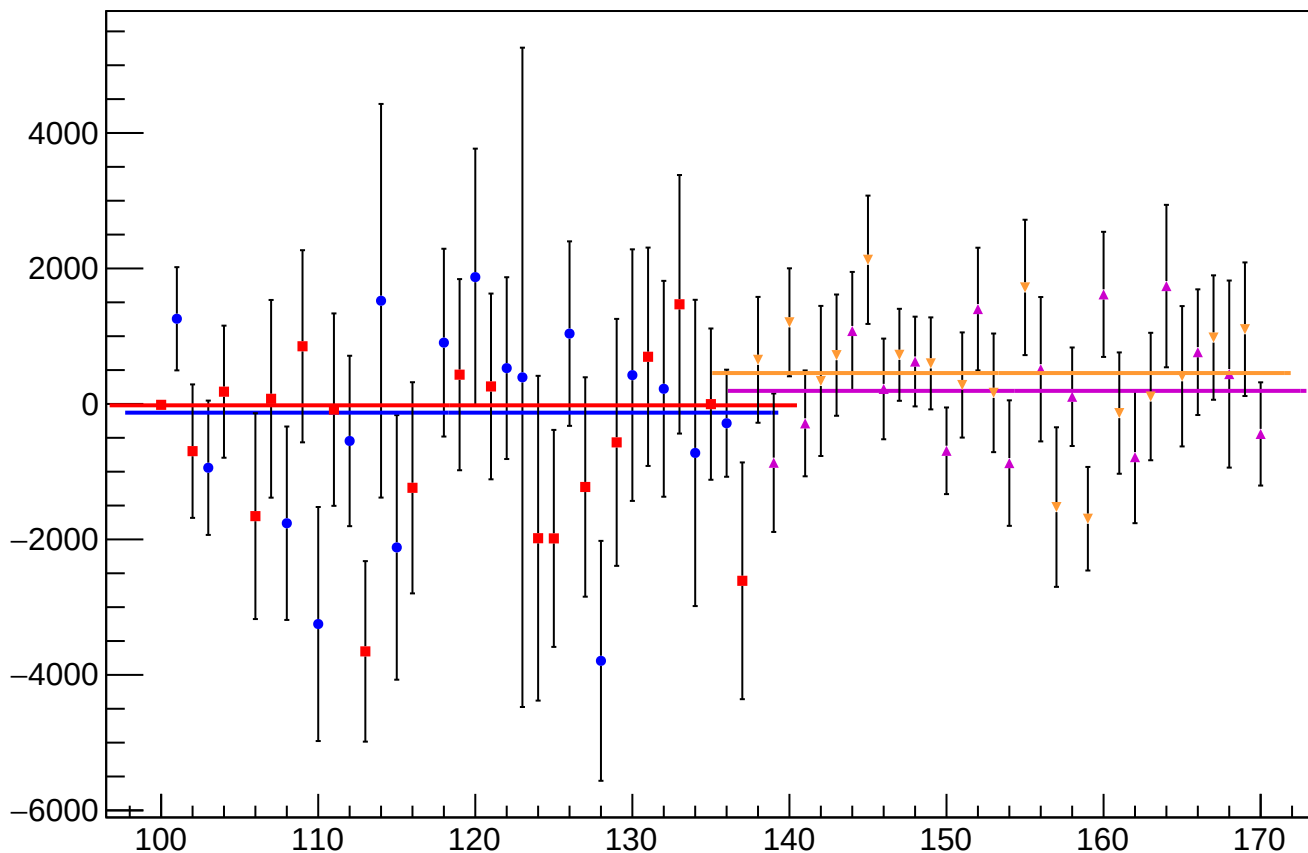
Right: 558.799 $\pm$ 0.107 χ^2 /NDF: 146729.2/35

In: 560.957 $\pm$ 0.091 χ^2 /NDF:23924.7/32

Out: 558.126 $\pm$ 0.089 χ^2 /NDF:145942.8/35

All: 559.511 $\pm$ 0.063 χ^2 /NDF: 170366.8/68

asym_right_dd_correction_mean vs Slug, Sign Corrected



Right In: -128.725 $\pm$ 327.688 χ^2/NDF : 17.2/16

Left Out: 456.003 $\pm$ 212.400 χ^2/NDF : 18.2/16

Right Out: -20.384 $\pm$ 38.954 χ^2/NDF : 16.1/18

Left In: 193.025 $\pm$ 213.550 χ^2/NDF : 14.2/15

Left: 325.224 $\pm$ 150.595 χ^2/NDF : 33.1/32

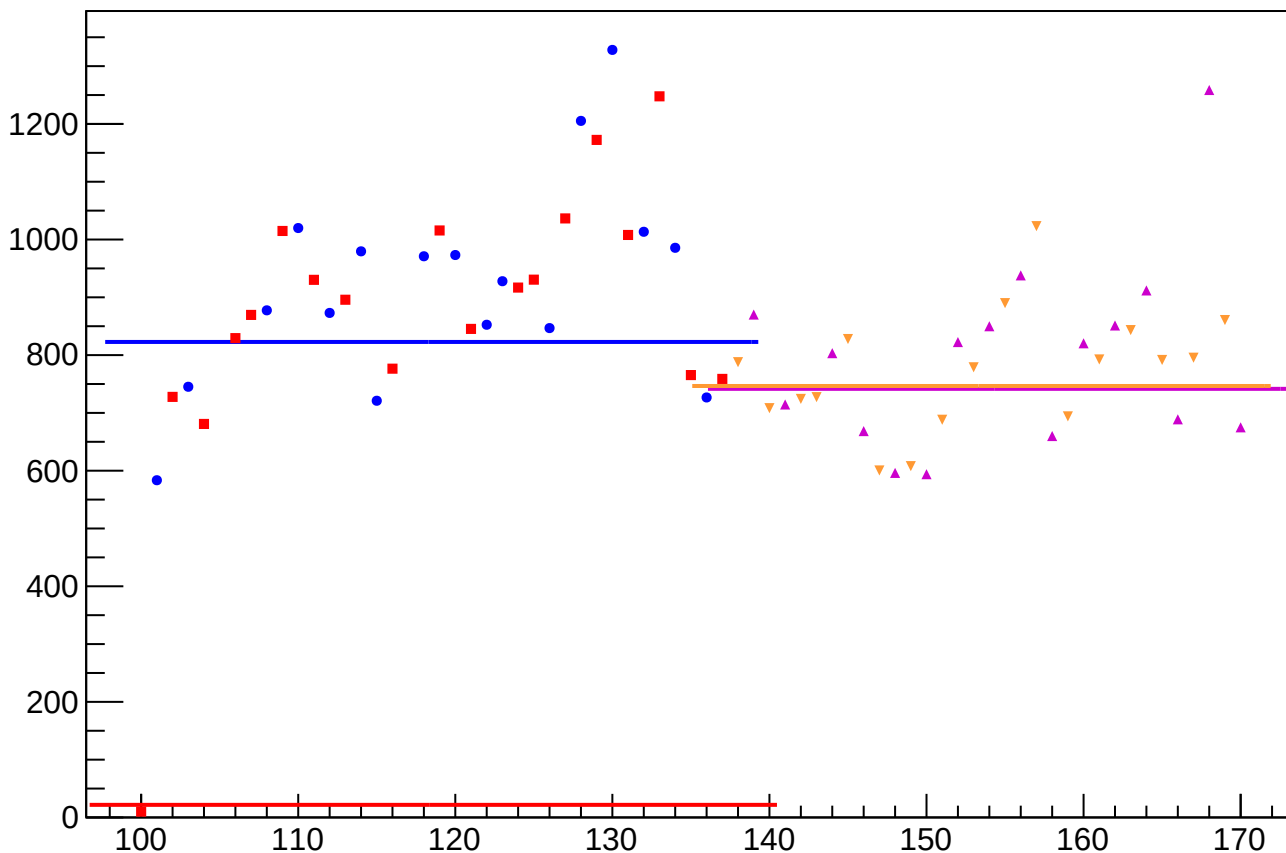
Right: -21.894 $\pm$ 38.682 χ^2/NDF : 33.4/35

In: 97.113 $\pm$ 178.912 χ^2/NDF : 32.1/32

Out: -4.882 $\pm$ 38.315 χ^2/NDF : 39.1/35

All: -0.409 $\pm$ 37.466 χ^2/NDF : 71.5/68

asym_right_dd_correction_rms vs Slug, Sign Corrected



Right In: 822.780 $\pm$ 0.232 χ^2 /NDF: 600873.9/16

Left Out: 746.573 $\pm$ 0.150 χ^2 /NDF: 438721.9/16

Right Out: 21.812 $\pm$ 0.028 χ^2 /NDF: 13523611.9/18

Left In: 741.623 $\pm$ 0.151 χ^2 /NDF: 785212.9/15

Left: 744.111 $\pm$ 0.106 χ^2 /NDF: 1224475.0/32

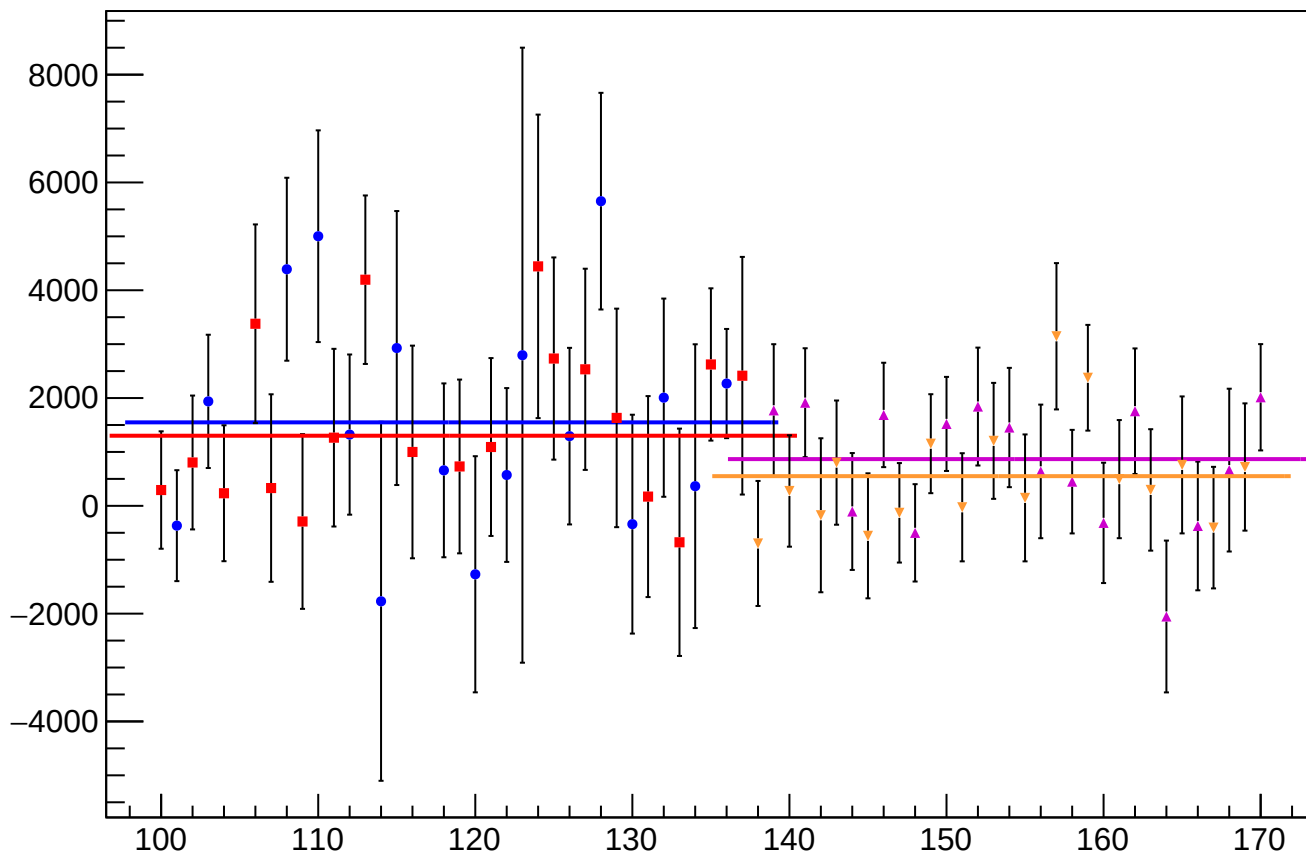
Right: 32.973 $\pm$ 0.027 χ^2 /NDF: 25907183.1/35

In: 765.815 $\pm$ 0.127 χ^2 /NDF: 1472193.9/32

Out: 45.397 $\pm$ 0.027 χ^2 /NDF: 36491307.8/35

All: 76.988 $\pm$ 0.026 χ^2 /NDF: 68969628.3/68

asym_right_dd_mean vs Slug, Sign Corrected



Right In: 1548.873 $\pm$ 402.008 χ^2 /NDF: 19.0/16

Left Out: 550.852 $\pm$ 267.927 χ^2 /NDF: 12.2/16

Right Out: 1300.945 $\pm$ 376.043 χ^2 /NDF: 12.5/18

Left In: 867.089 $\pm$ 270.192 χ^2 /NDF: 15.7/15

Left: 707.639 $\pm$ 190.249 χ^2 /NDF: 28.6/32

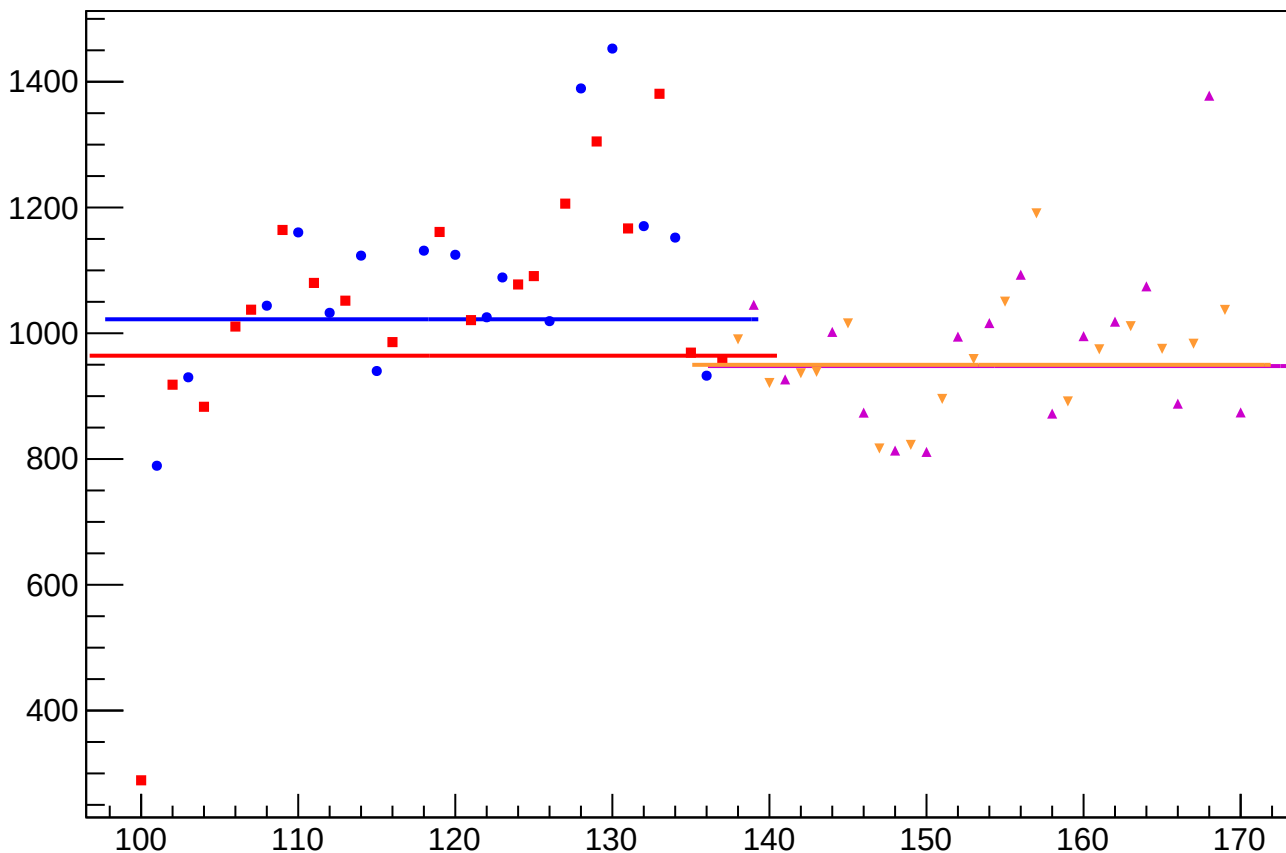
Right: 1416.645 $\pm$ 274.624 χ^2 /NDF: 31.7/35

In: 1079.236 $\pm$ 224.249 χ^2 /NDF: 36.7/32

Out: 803.417 $\pm$ 218.206 χ^2 /NDF: 27.4/35

All: 937.561 $\pm$ 156.388 χ^2 /NDF: 64.8/68

asym_right_dd_rms vs Slug, Sign Corrected



Right In: 1022.241 $\pm$ 0.284 χ^2 /NDF: 331865.9/16

Left Out: 949.823 $\pm$ 0.189 χ^2 /NDF:201881.8/16

Right Out: 964.330 $\pm$ 0.266 χ^2 /NDF: 1067281.2/18

Left In: 947.844 $\pm$ 0.191 χ^2 /NDF:380054.5/15

Left: 948.842 $\pm$ 0.135 χ^2 /NDF: 581990.4/32

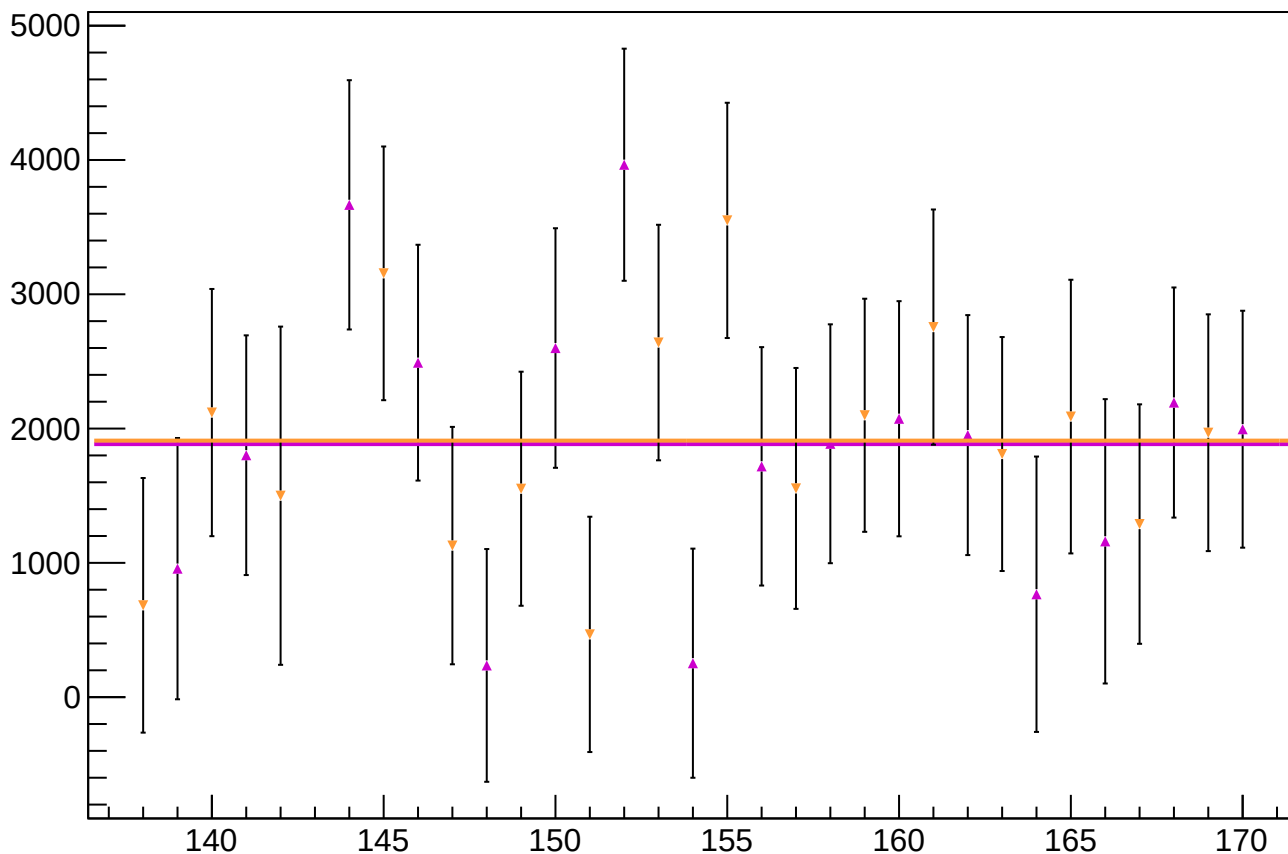
Right: 991.355 $\pm$ 0.194 χ^2 /NDF: 1421282.7/35

In: 970.993 $\pm$ 0.159 χ^2 /NDF:759104.7/32

Out: 954.708 $\pm$ 0.154 χ^2 /NDF:1271137.1/35

All: 962.628 $\pm$ 0.111 χ^2 /NDF: 2035660.1/68

cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 1910.237+/-227.937 χ^2/NDF :13.1/15

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 1884.266+/-225.576 χ^2/NDF :20.7/15

Left: 1897.116+/-160.335 χ^2/NDF : 33.8/31

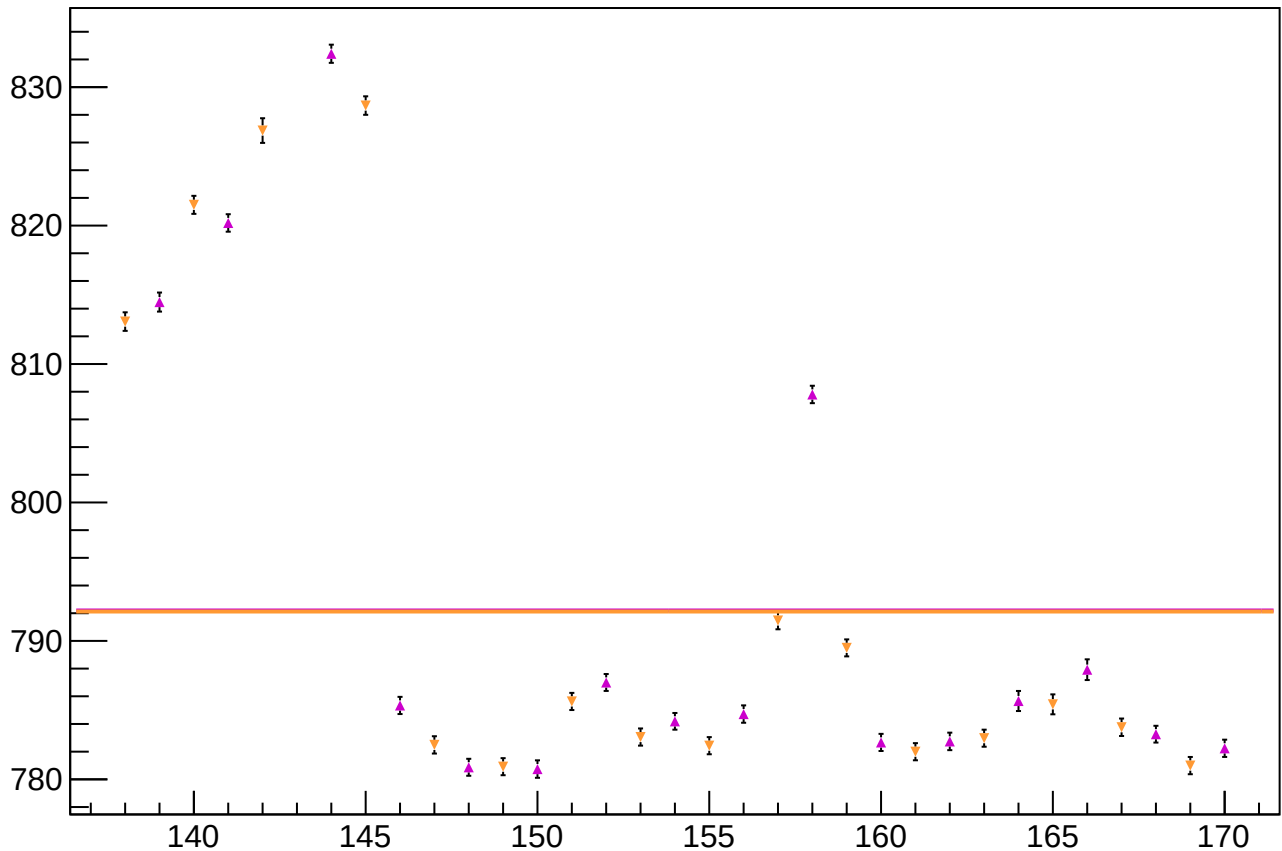
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 1884.266+/-225.576 χ^2/NDF :20.7/15

Out: 1910.237+/-227.937 χ^2/NDF :13.1/15

All: 1897.116+/-160.335 χ^2/NDF : 33.8/31

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 792.124+/-0.161 χ^2/NDF :9754.9/15

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 792.196+/-0.160 χ^2/NDF :9617.5/15

Left: 792.160+/-0.113 χ^2/NDF : 19372.6/31

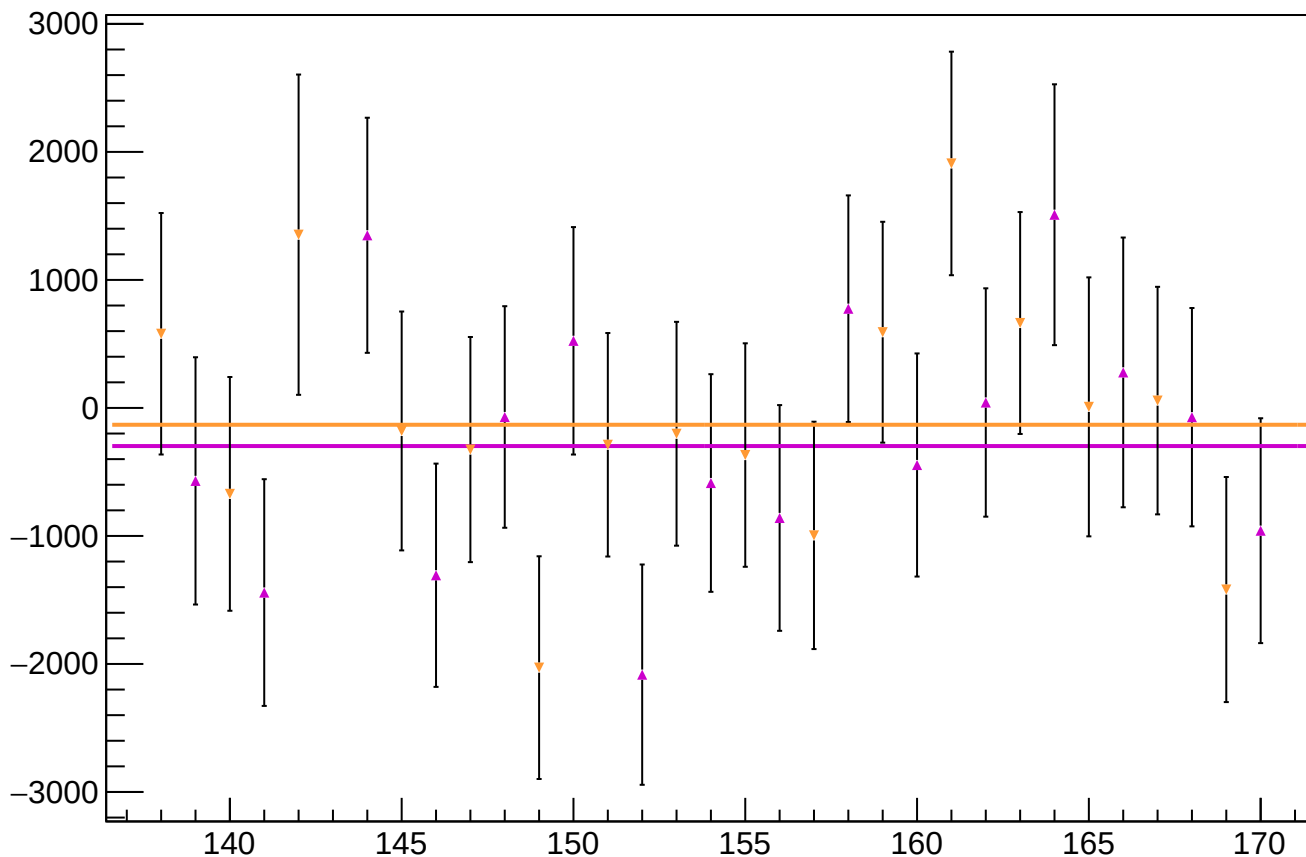
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 792.196+/-0.160 χ^2/NDF :9617.5/15

Out: 792.124+/-0.161 χ^2/NDF :9754.9/15

All: 792.160+/-0.113 χ^2/NDF : 19372.6/31

cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -131.434+/-226.744 χ^2/NDF :17.4/15

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -297.813+/-224.415 χ^2/NDF :17.8/15

Left: -215.482+/-159.502 χ^2/NDF : 35.5/31

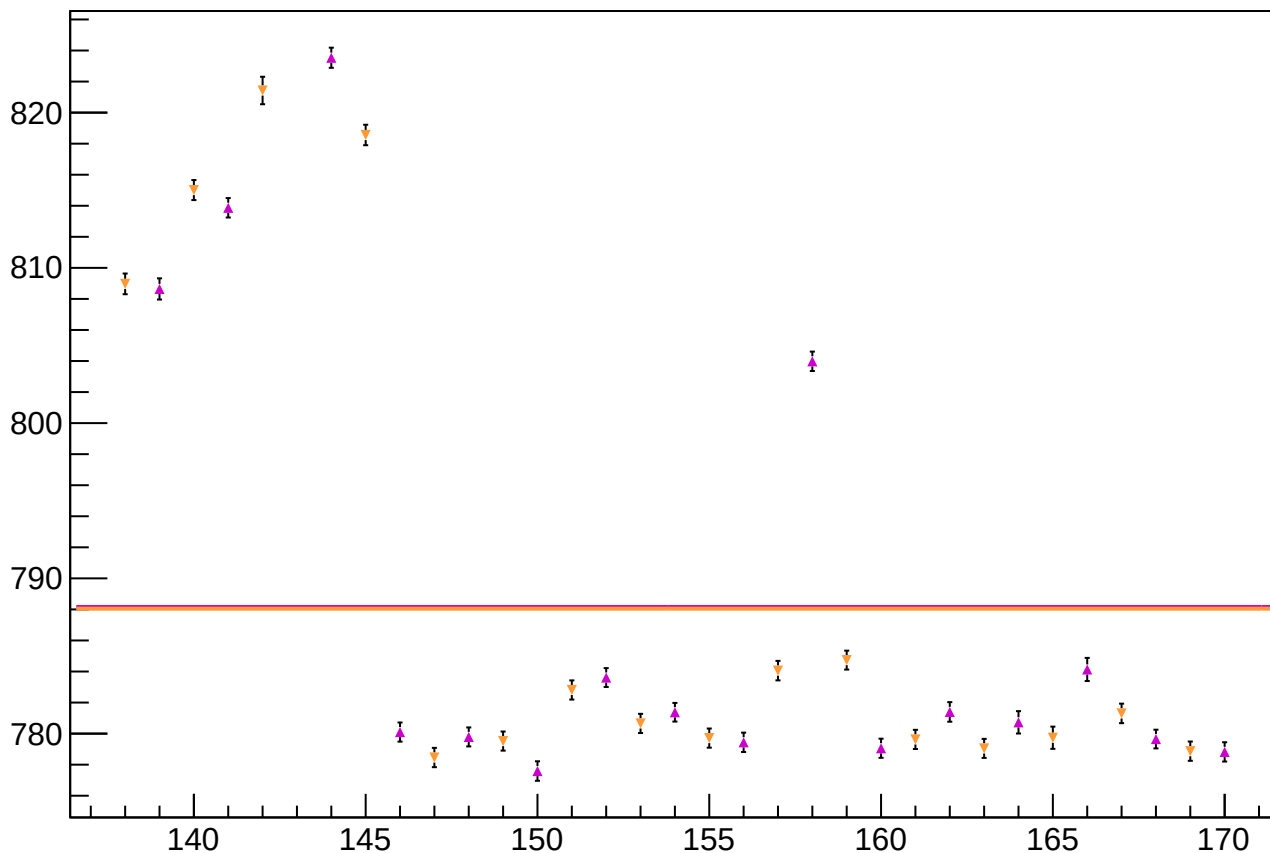
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -297.813+/-224.415 χ^2/NDF :17.8/15

Out: -131.434+/-226.744 χ^2/NDF :17.4/15

All: -215.482+/-159.502 χ^2/NDF : 35.5/31

cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 788.048+/-0.160 χ^2/NDF : 8057.7/15

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 788.154+/-0.159 χ^2/NDF : 8106.2/15

Left: 788.102+/-0.113 χ^2/NDF : 16164.1/31

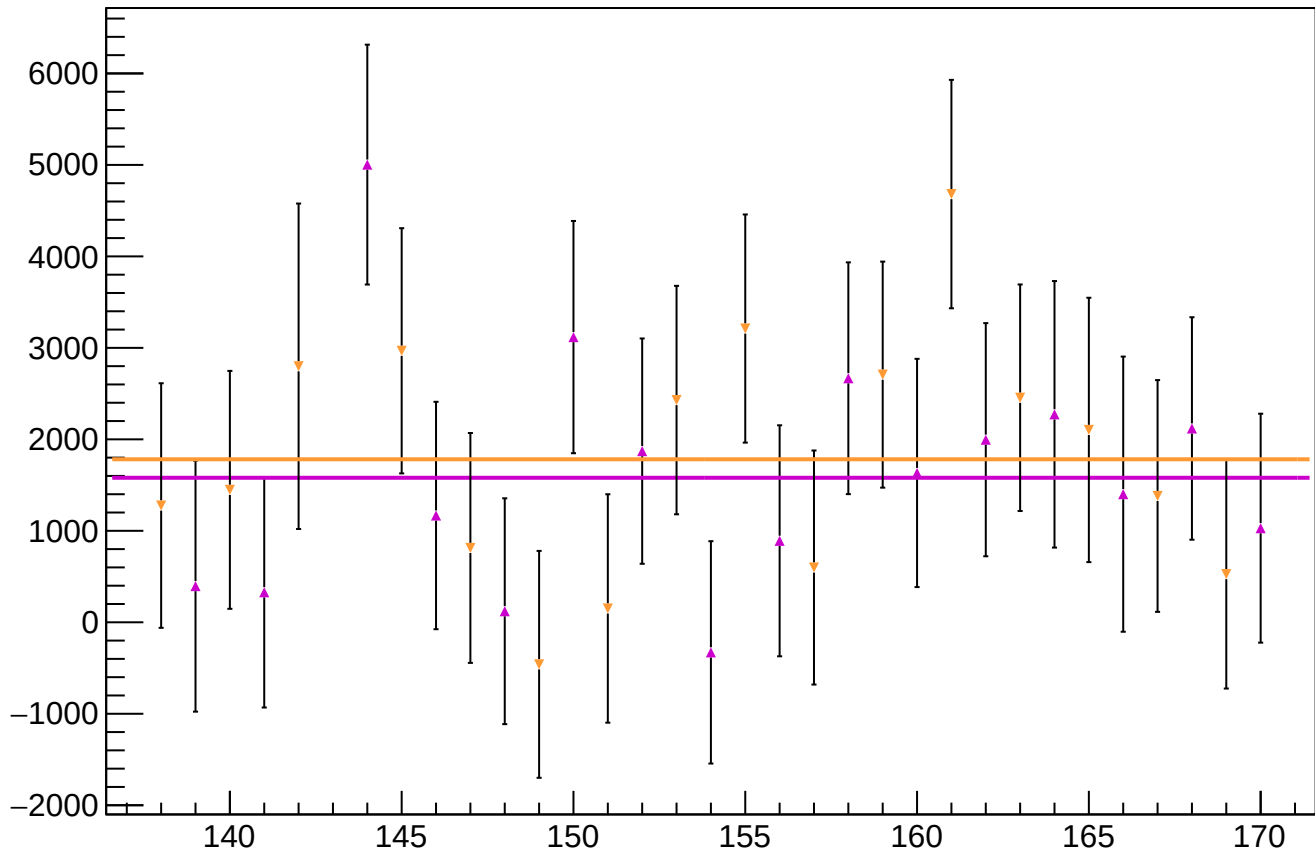
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 788.154+/-0.159 χ^2/NDF : 8106.2/15

Out: 788.048+/-0.160 χ^2/NDF : 8057.7/15

All: 788.102+/-0.113 χ^2/NDF : 16164.1/31

cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 1782.054+/-323.871 χ^2/NDF :16.7/15

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 1579.929+/-320.433 χ^2/NDF :15.8/15

Left: 1679.913+/-227.786 χ^2/NDF : 32.7/31

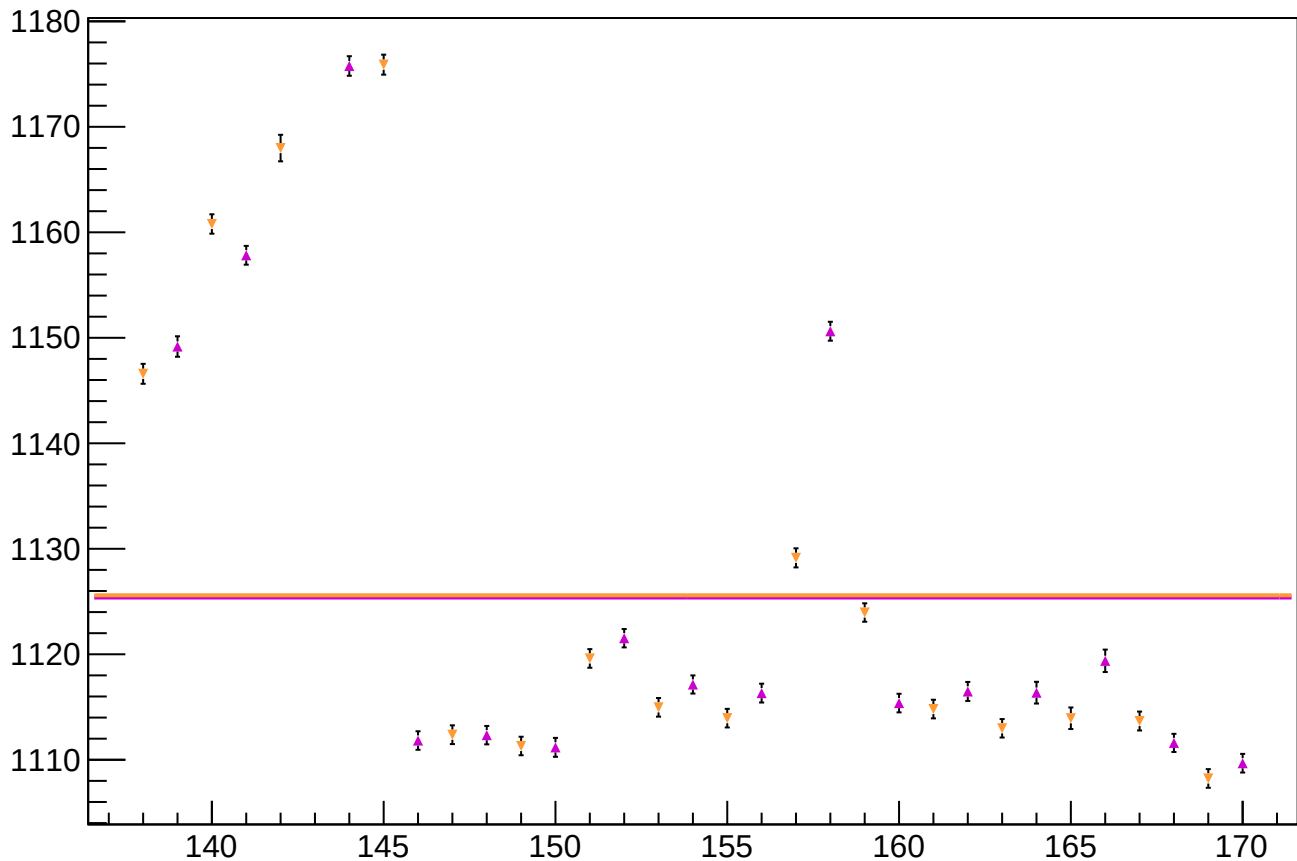
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 1579.929+/-320.433 χ^2/NDF :15.8/15

Out: 1782.054+/-323.871 χ^2/NDF :16.7/15

All: 1679.913+/-227.786 χ^2/NDF : 32.7/31

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 1125.593+/-0.229 χ^2/NDF : 7830.3/15

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 1125.381+/-0.227 χ^2/NDF : 7507.8/15

Left: 1125.486+/-0.161 χ^2/NDF : 15338.5/31

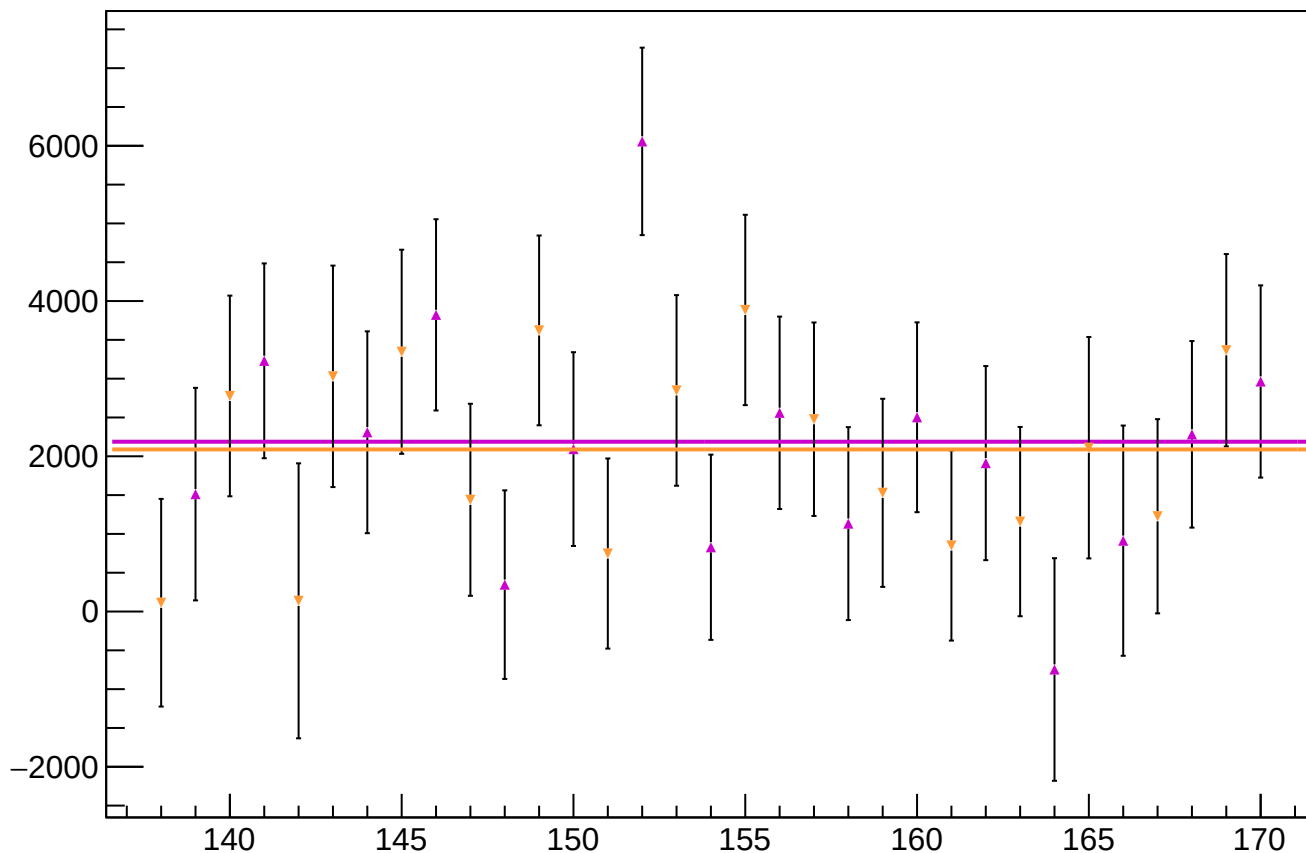
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 1125.381+/-0.227 χ^2/NDF : 7507.8/15

Out: 1125.593+/-0.229 χ^2/NDF : 7830.3/15

All: 1125.486+/-0.161 χ^2/NDF : 15338.5/31

cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 2088.154+/-311.441 χ^2/NDF :14.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 2187.704+/-315.932 χ^2/NDF :22.8/15

Left: 2137.216+/-221.793 χ^2/NDF : 36.9/32

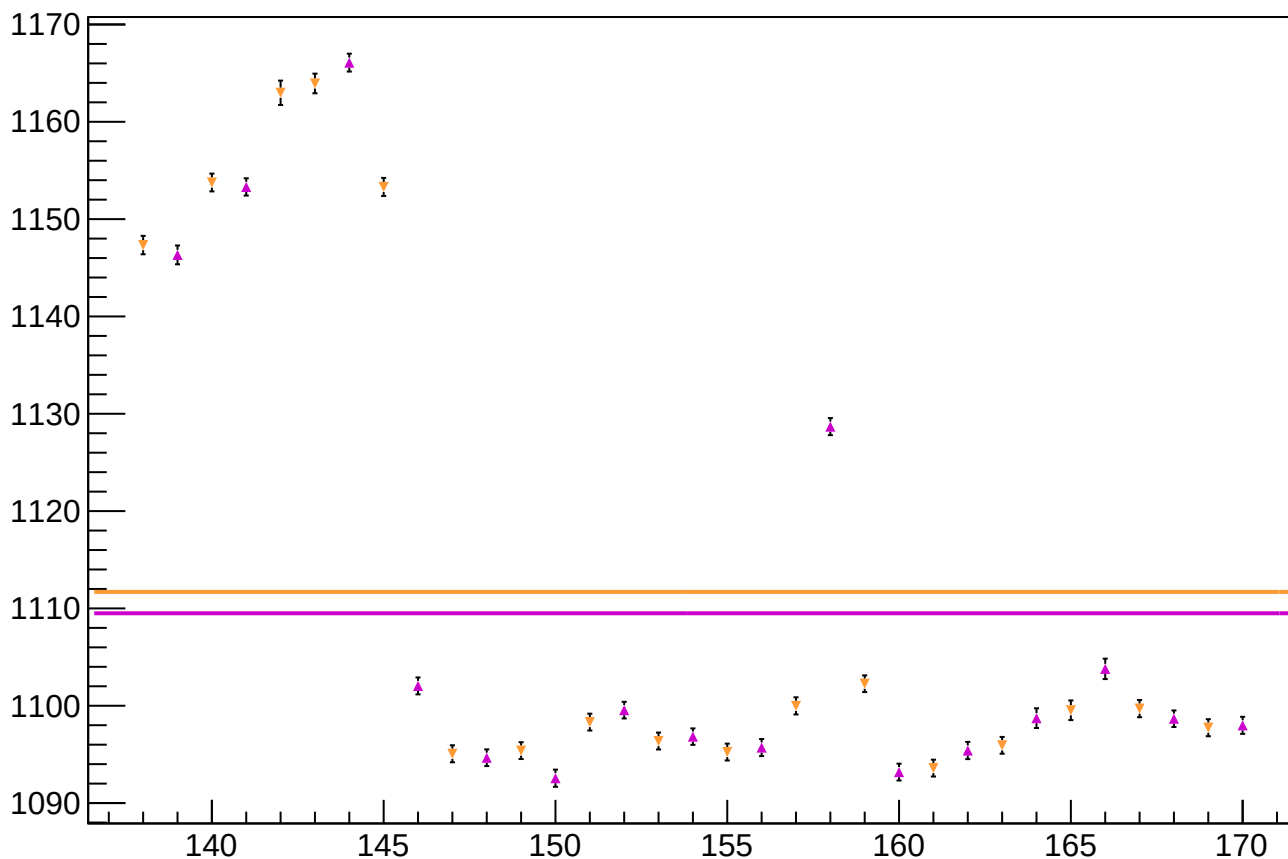
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 2187.704+/-315.932 χ^2/NDF :22.8/15

Out: 2088.154+/-311.441 χ^2/NDF :14.1/16

All: 2137.216+/-221.793 χ^2/NDF : 36.9/32

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 1111.697+/-0.220 χ^2/NDF :13178.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 1109.502+/-0.223 χ^2/NDF :10586.0/15

Left: 1110.615+/-0.157 χ^2/NDF : 23813.8/32

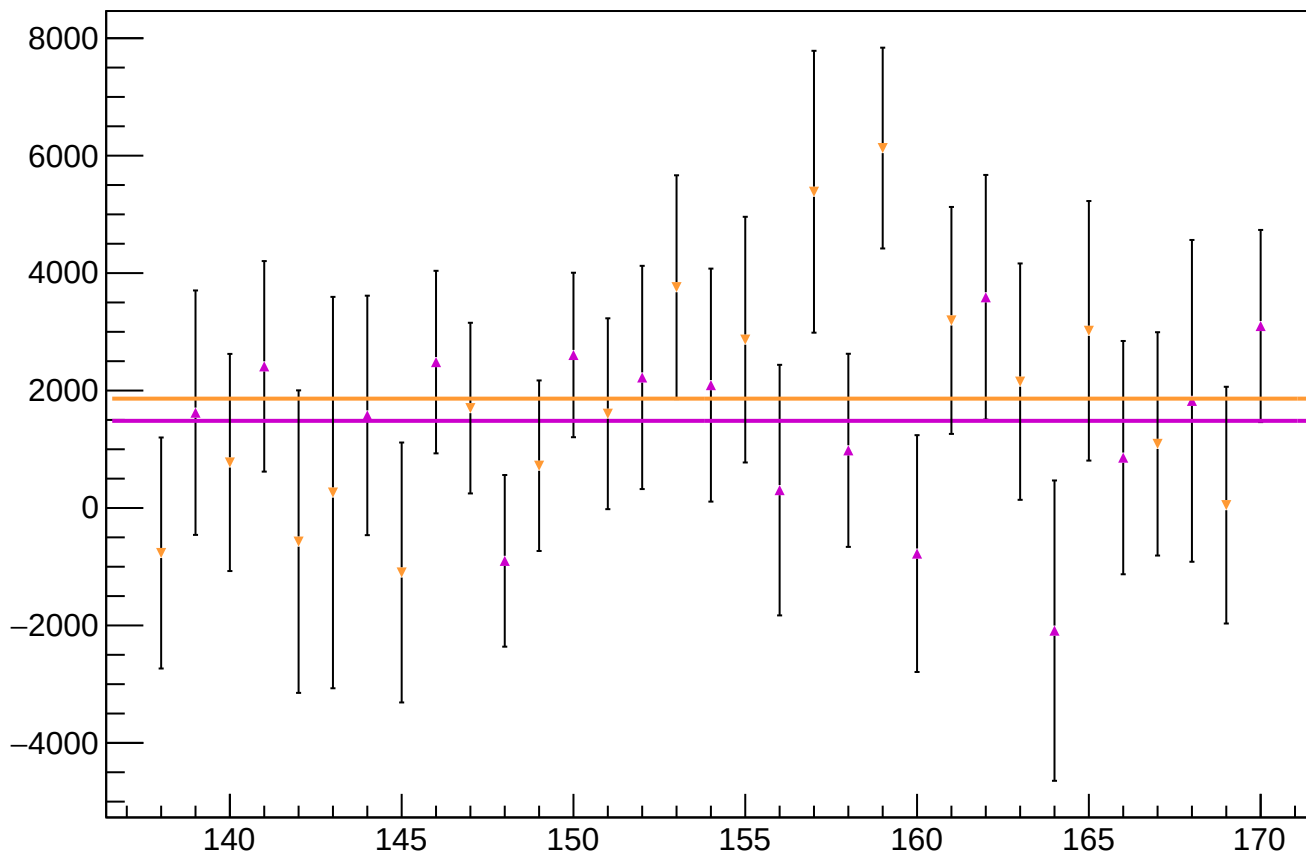
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 1109.502+/-0.223 χ^2/NDF :10586.0/15

Out: 1111.697+/-0.220 χ^2/NDF :13178.8/16

All: 1110.615+/-0.157 χ^2/NDF : 23813.8/32

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 1862.376+/-467.052 χ^2/NDF :17.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 1484.199+/-462.035 χ^2/NDF :10.0/15

Left: 1671.246+/-328.467 χ^2/NDF : 27.3/32

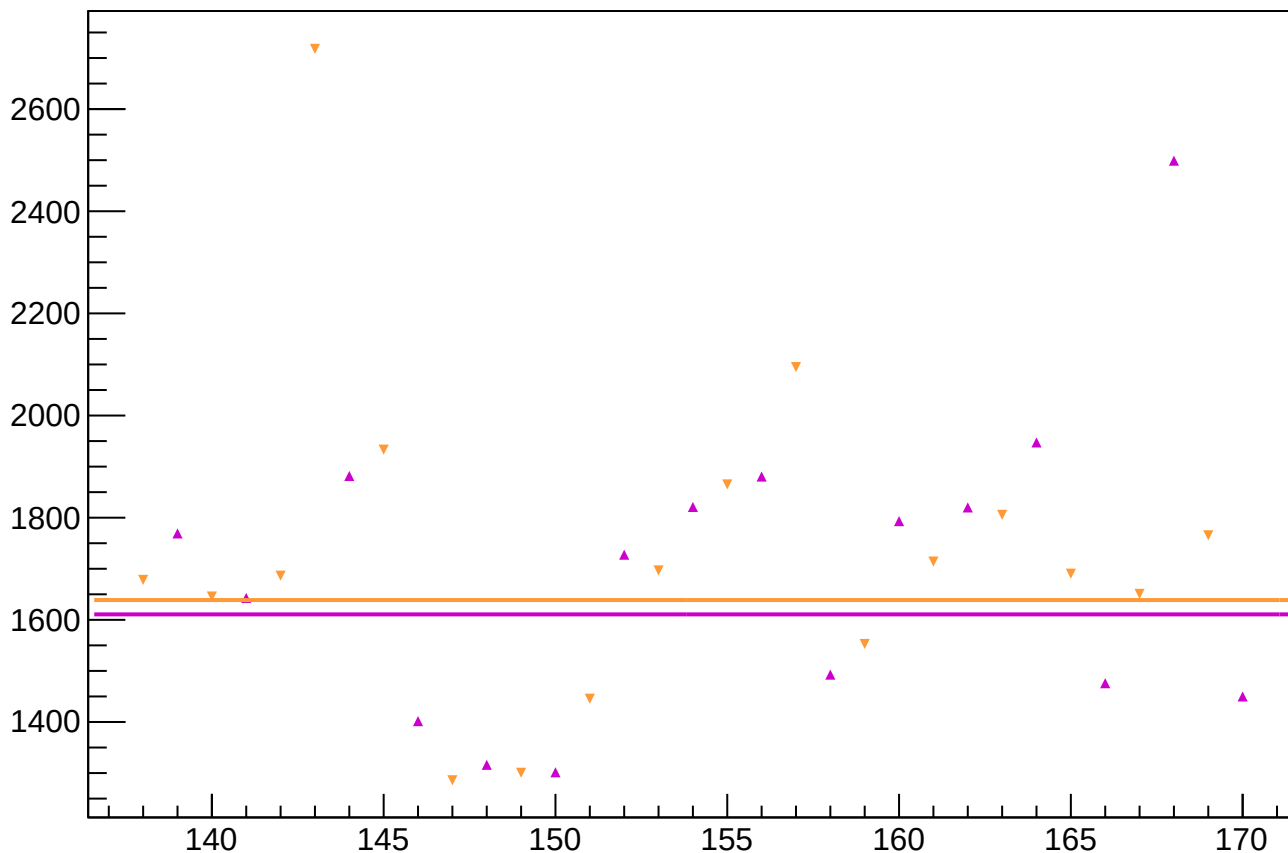
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 1484.199+/-462.035 χ^2/NDF :10.0/15

Out: 1862.376+/-467.052 χ^2/NDF :17.0/16

All: 1671.246+/-328.467 χ^2/NDF : 27.3/32

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 1638.736+/-0.330 χ^2/NDF : 629806.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 1610.719+/-0.327 χ^2/NDF : 644745.4/15

Left: 1624.576+/-0.232 χ^2/NDF : 1278188.8/32

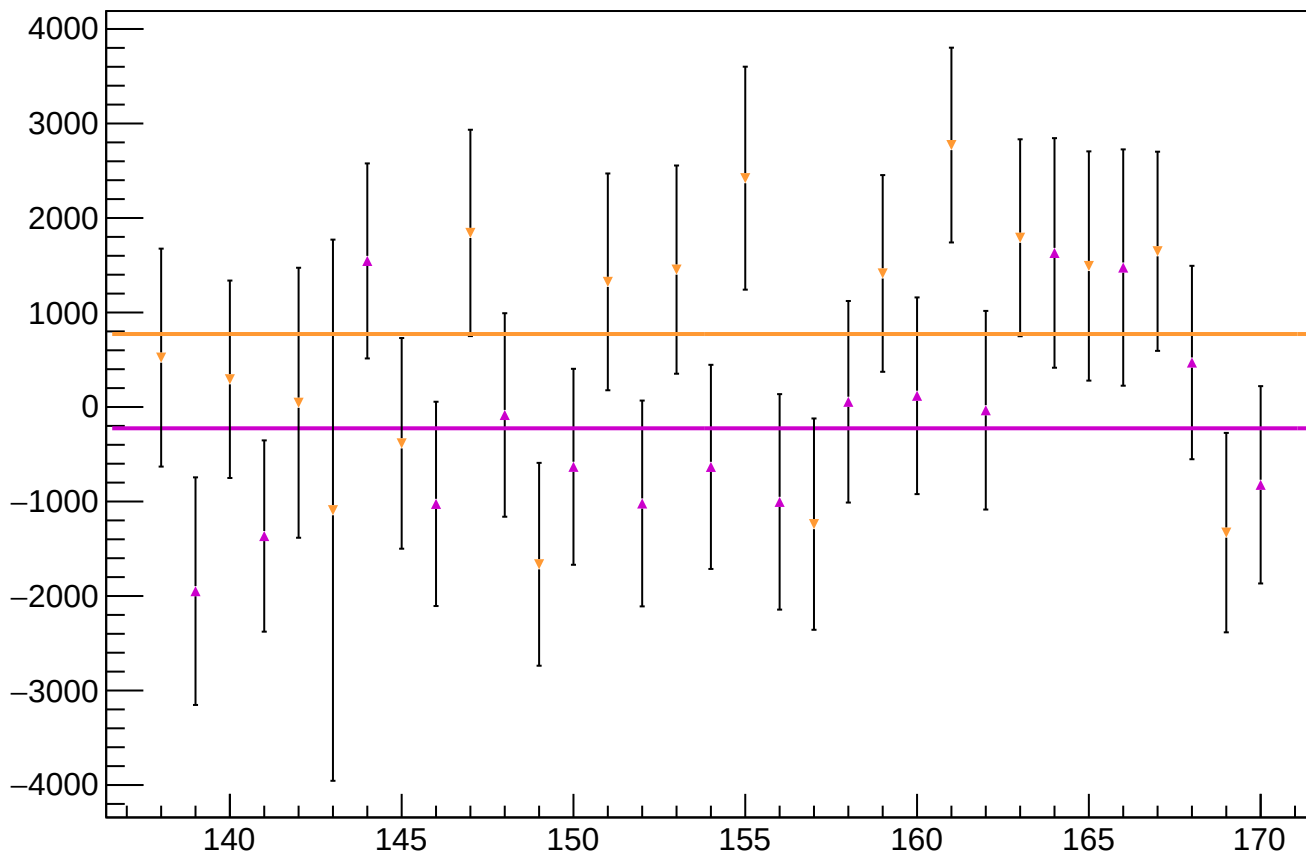
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 1610.719+/-0.327 χ^2/NDF : 644745.4/15

Out: 1638.736+/-0.330 χ^2/NDF : 629806.1/16

All: 1624.576+/-0.232 χ^2/NDF : 1278188.8/32

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 772.305+/-275.666 χ^2/NDF :24.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -225.358+/-270.946 χ^2/NDF :13.3/15

Left: 264.861+/-193.235 χ^2/NDF : 44.0/32

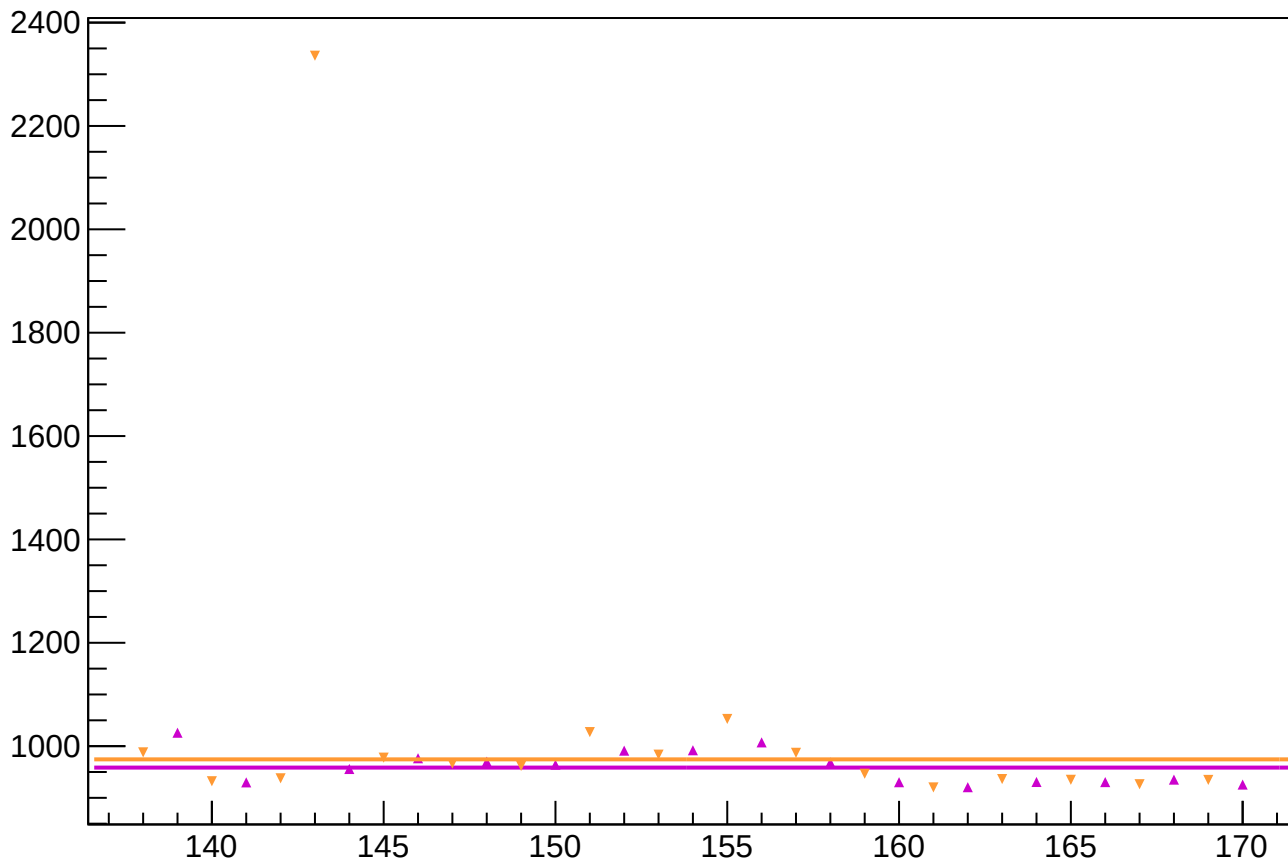
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -225.358+/-270.946 χ^2/NDF :13.3/15

Out: 772.305+/-275.666 χ^2/NDF :24.0/16

All: 264.861+/-193.235 χ^2/NDF : 44.0/32

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 974.462+/-0.195 χ^2/NDF : 489695.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 958.513+/-0.192 χ^2/NDF : 25459.8/15

Left: 966.350+/-0.137 χ^2/NDF : 518560.8/32

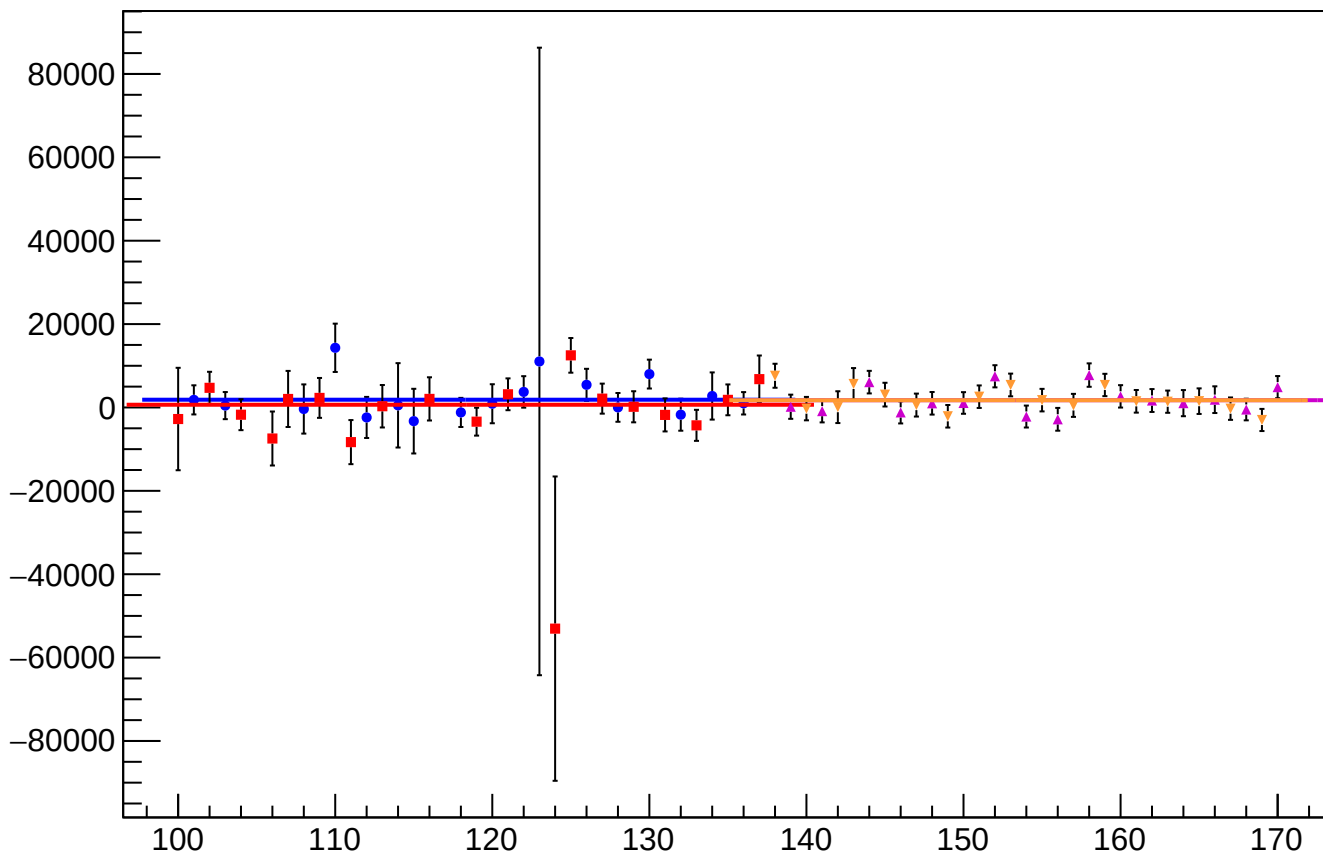
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 958.513+/-0.192 χ^2/NDF : 25459.8/15

Out: 974.462+/-0.195 χ^2/NDF : 489695.8/16

All: 966.350+/-0.137 χ^2/NDF : 518560.8/32

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1859.767+/-1013.438 χ^2/NDF : 12.5/16

Left Out: 1733.843+/-686.867 χ^2/NDF :16.1/16

Right Out: 654.213+/-1023.772 χ^2/NDF : 22.1/18

Left In: 1741.077+/-685.614 χ^2/NDF :21.8/15

Left: 1737.467+/-485.245 χ^2/NDF : 37.8/32

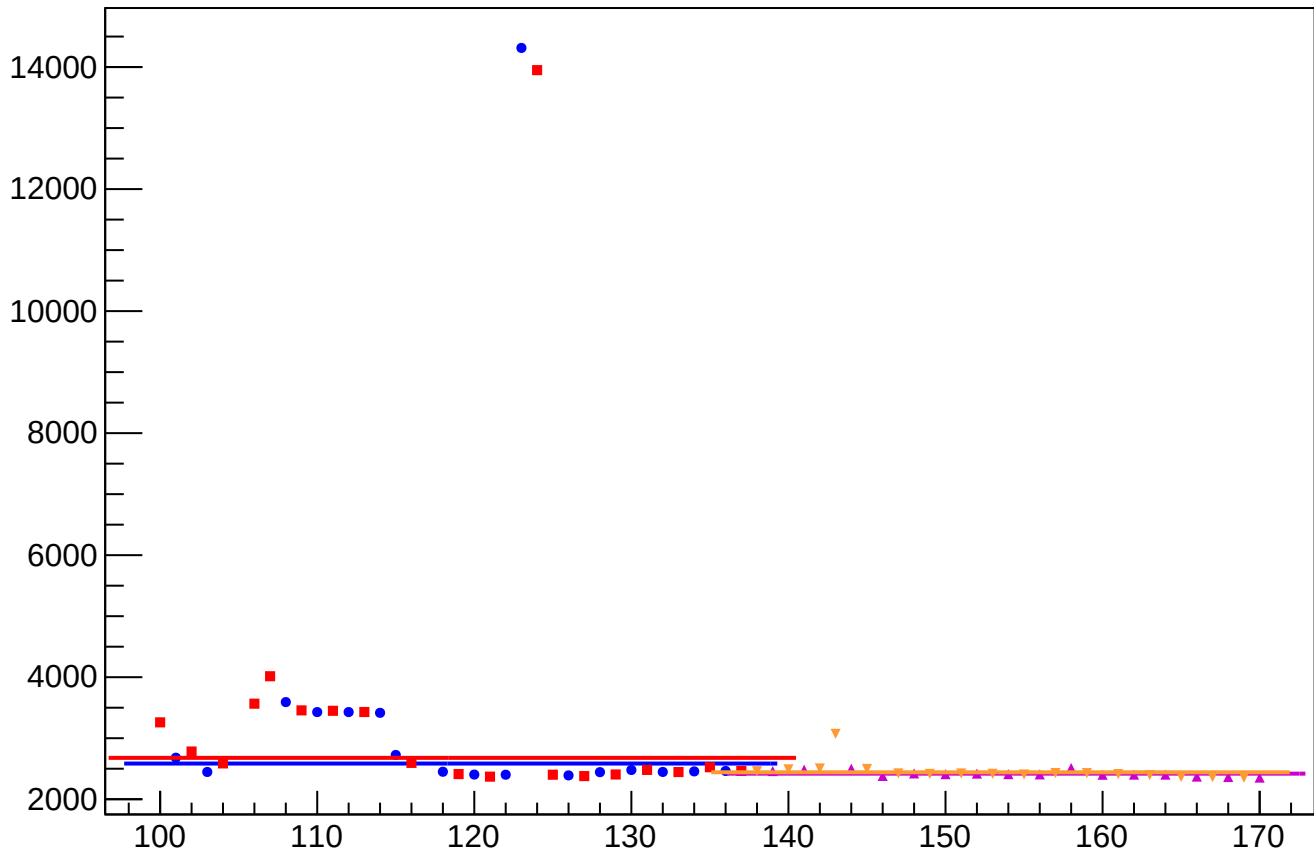
Right: 1263.106+/-720.235 χ^2/NDF : 35.3/35

In: 1778.343+/-567.869 χ^2/NDF :34.3/32

Out: 1398.718+/-570.386 χ^2/NDF :38.9/35

All: 1589.370+/-402.431 χ^2/NDF : 73.4/68

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2584.819+/-0.717 χ^2/NDF : 255710.5/16

Left Out: 2441.567+/-0.486 χ^2/NDF : 63622.4/16

Right Out: 2678.229+/-0.724 χ^2/NDF : 532096.9/18

Left In: 2419.268+/-0.485 χ^2/NDF : 8826.8/15

Left: 2430.397+/-0.343 χ^2/NDF : 73505.1/32

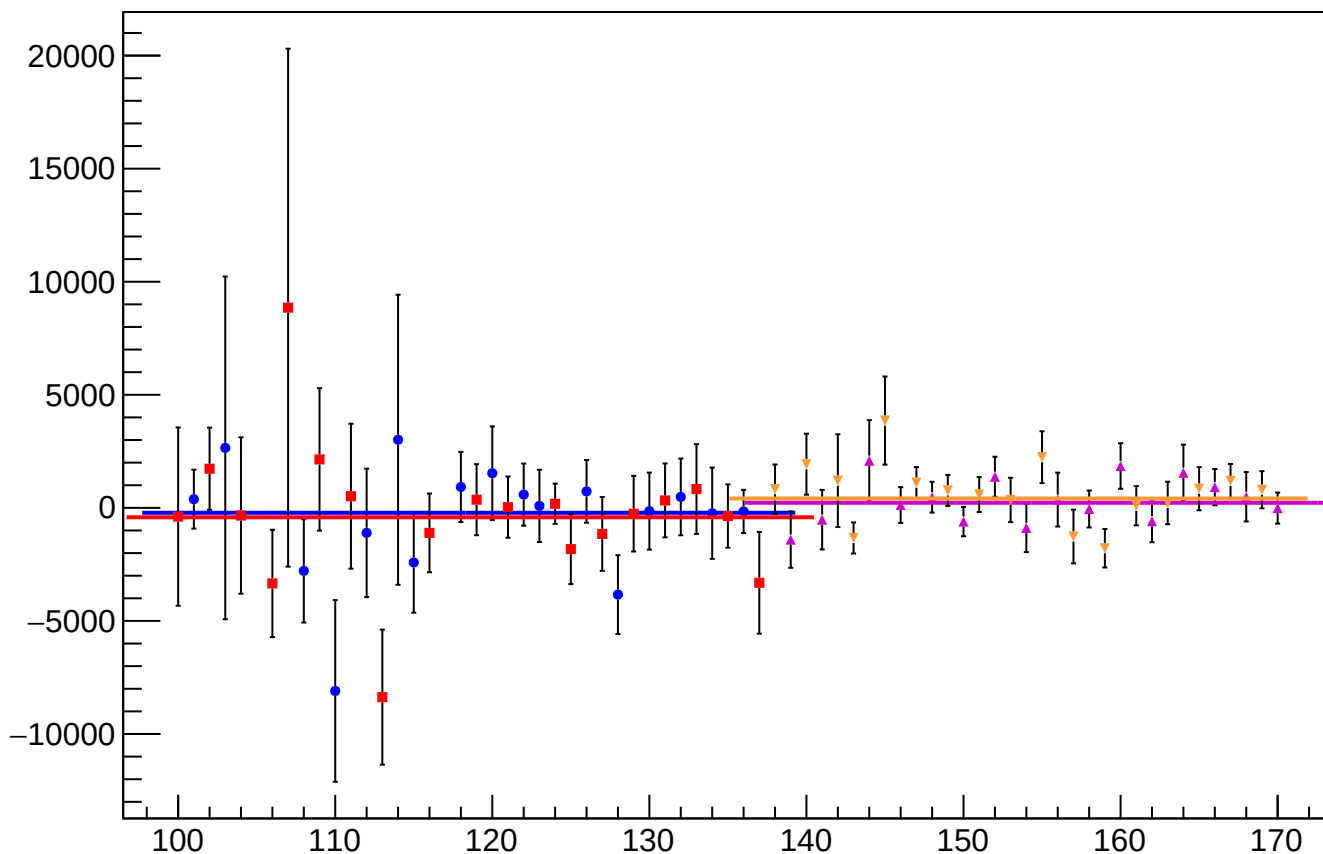
Right: 2631.050+/-0.509 χ^2/NDF : 796216.7/35

In: 2471.248+/-0.402 χ^2/NDF : 301150.0/32

Out: 2515.029+/-0.403 χ^2/NDF : 669420.0/35

All: 2493.041+/-0.285 χ^2/NDF : 976487.6/68

asym_atl1_correction_mean vs Slug, Sign Corrected



Right In: -217.017 ± 420.077 χ^2/NDF : 13.4/16

Left Out: 414.494 ± 220.130 χ^2/NDF : 25.4/16

Right Out: -417.202 ± 408.976 χ^2/NDF : 15.7/18

Left In: 225.088 ± 227.472 χ^2/NDF : 13.2/15

Left: 322.897 ± 158.188 χ^2/NDF : 39.0/32

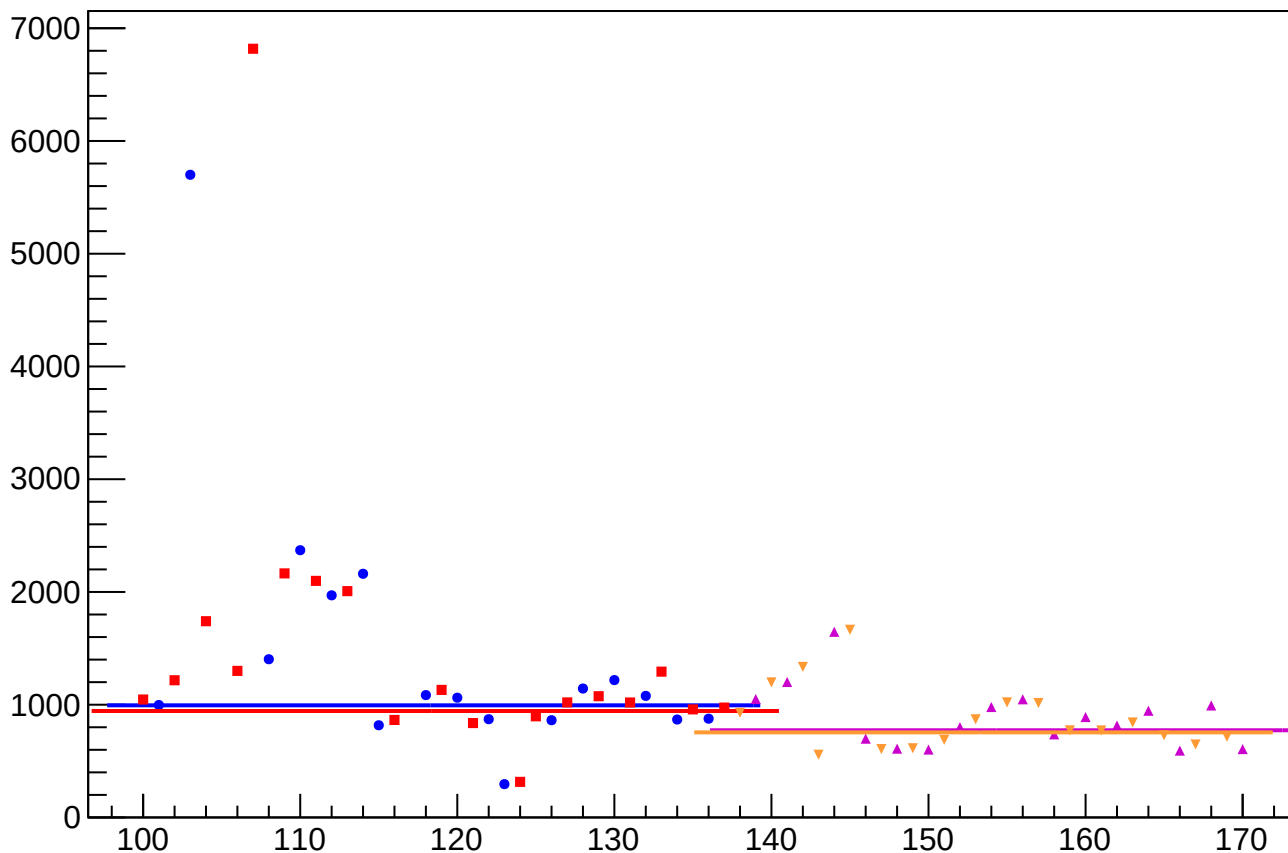
Right: -319.789 ± 293.036 χ^2/NDF : 29.2/35

In: 124.846 ± 200.029 χ^2/NDF : 27.4/32

Out: 227.668 ± 193.836 χ^2/NDF : 44.3/35

All: 177.873 ± 139.200 χ^2/NDF : 71.9/68

asym_atl1_correction_rms vs Slug, Sign Corrected



Right In: 994.541 $\pm$ 0.297 χ^2 /NDF: 1904549.2/16

Left Out: 754.652 $\pm$ 0.156 χ^2 /NDF:1519518.9/16

Right Out: 944.286 $\pm$ 0.289 χ^2 /NDF: 2666007.0/18

Left In: 773.188 $\pm$ 0.161 χ^2 /NDF:1613695.8/15

Left: 763.616 $\pm$ 0.112 χ^2 /NDF: 3140072.3/32

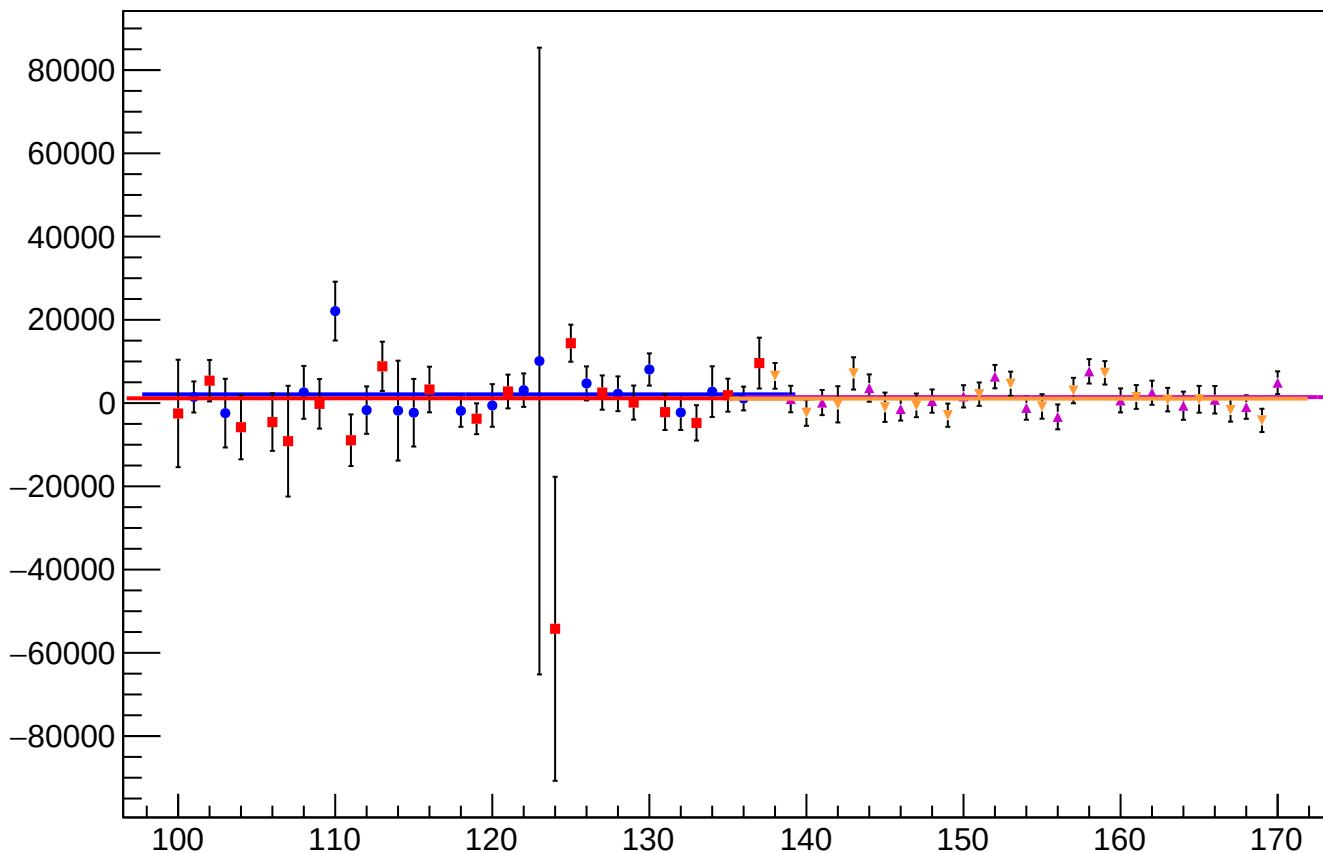
Right: 968.741 $\pm$ 0.207 χ^2 /NDF: 4585251.1/35

In: 823.377 $\pm$ 0.141 χ^2 /NDF:3947651.6/32

Out: 797.250 $\pm$ 0.137 χ^2 /NDF:4518933.5/35

All: 809.903 $\pm$ 0.098 χ^2 /NDF: 8484182.0/68

asym_atl1_mean vs Slug, Sign Corrected



Right In: 2094.050+/-1160.426 χ^2 /NDF: 14.6/16

Left Out: 1070.494+/-735.160 χ^2 /NDF:21.3/16

Right Out: 1147.788+/-1187.007 χ^2 /NDF: 25.1/18

Left In: 1432.395+/-734.829 χ^2 /NDF:15.6/15

Left: 1251.525+/-519.719 χ^2 /NDF: 37.1/32

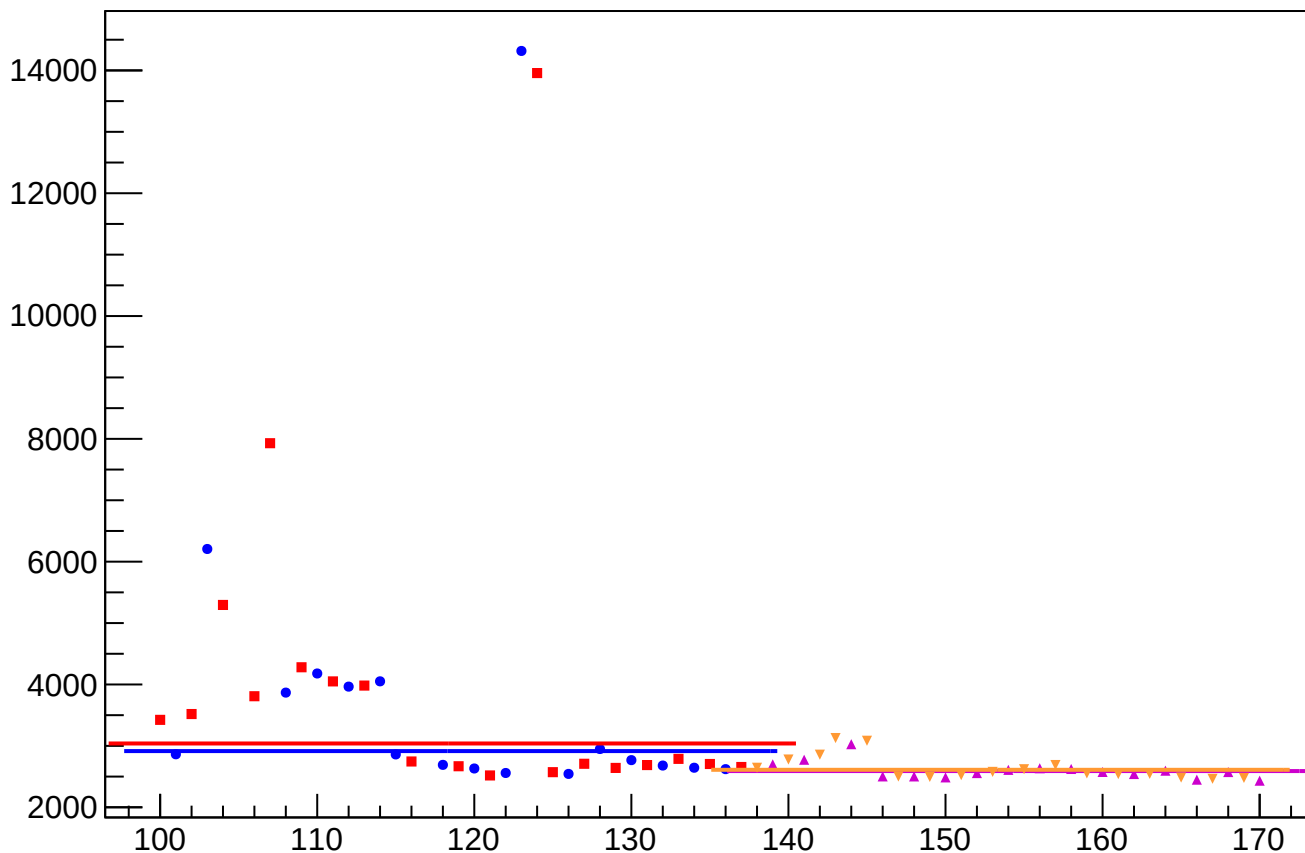
Right: 1631.633+/-829.783 χ^2 /NDF: 40.1/35

In: 1621.774+/-620.823 χ^2 /NDF:30.5/32

Out: 1091.922+/-624.999 χ^2 /NDF:46.5/35

All: 1358.624+/-440.457 χ^2 /NDF: 77.3/68

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2915.201+/-0.821 χ^2/NDF : 639136.4/16

Left Out: 2610.388+/-0.520 χ^2/NDF : 110076.9/16

Right Out: 3039.139+/-0.839 χ^2/NDF : 1011383.0/18

Left In: 2589.853+/-0.520 χ^2/NDF : 64208.0/15

Left: 2600.116+/-0.367 χ^2/NDF : 175065.5/32

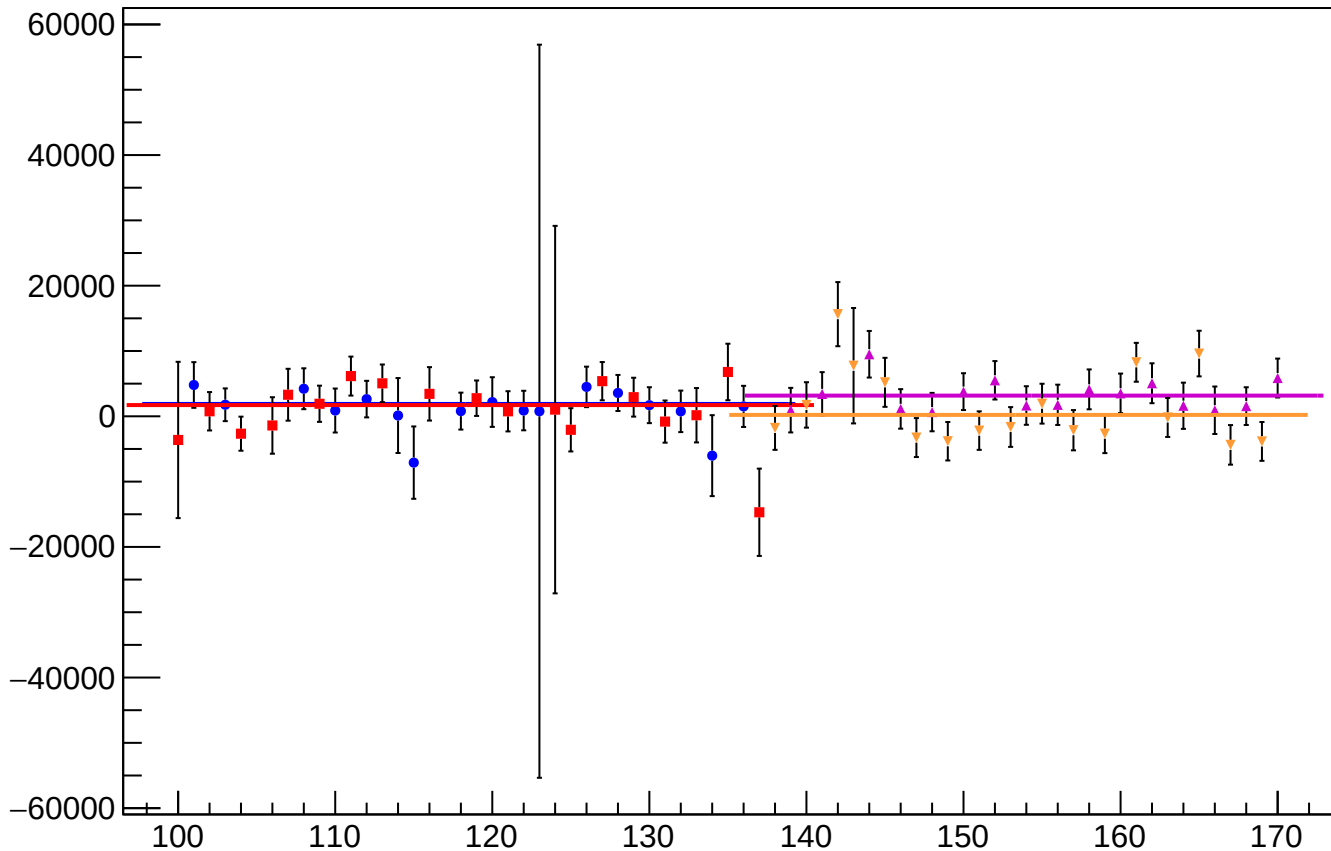
Right: 2975.767+/-0.587 χ^2/NDF : 1661668.2/35

In: 2682.975+/-0.439 χ^2/NDF : 815560.2/32

Out: 2729.254+/-0.442 χ^2/NDF : 1310054.6/35

All: 2705.959+/-0.311 χ^2/NDF : 2131134.5/68

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1889.943+/-811.431 χ^2/NDF : 7.3/16

Left Out: 214.351+/-790.094 χ^2/NDF : 37.7/16

Right Out: 1719.130+/-790.110 χ^2/NDF : 19.0/18

Left In: 3168.303+/-778.004 χ^2/NDF : 8.1/15

Left: 1714.102+/-554.357 χ^2/NDF : 52.9/32

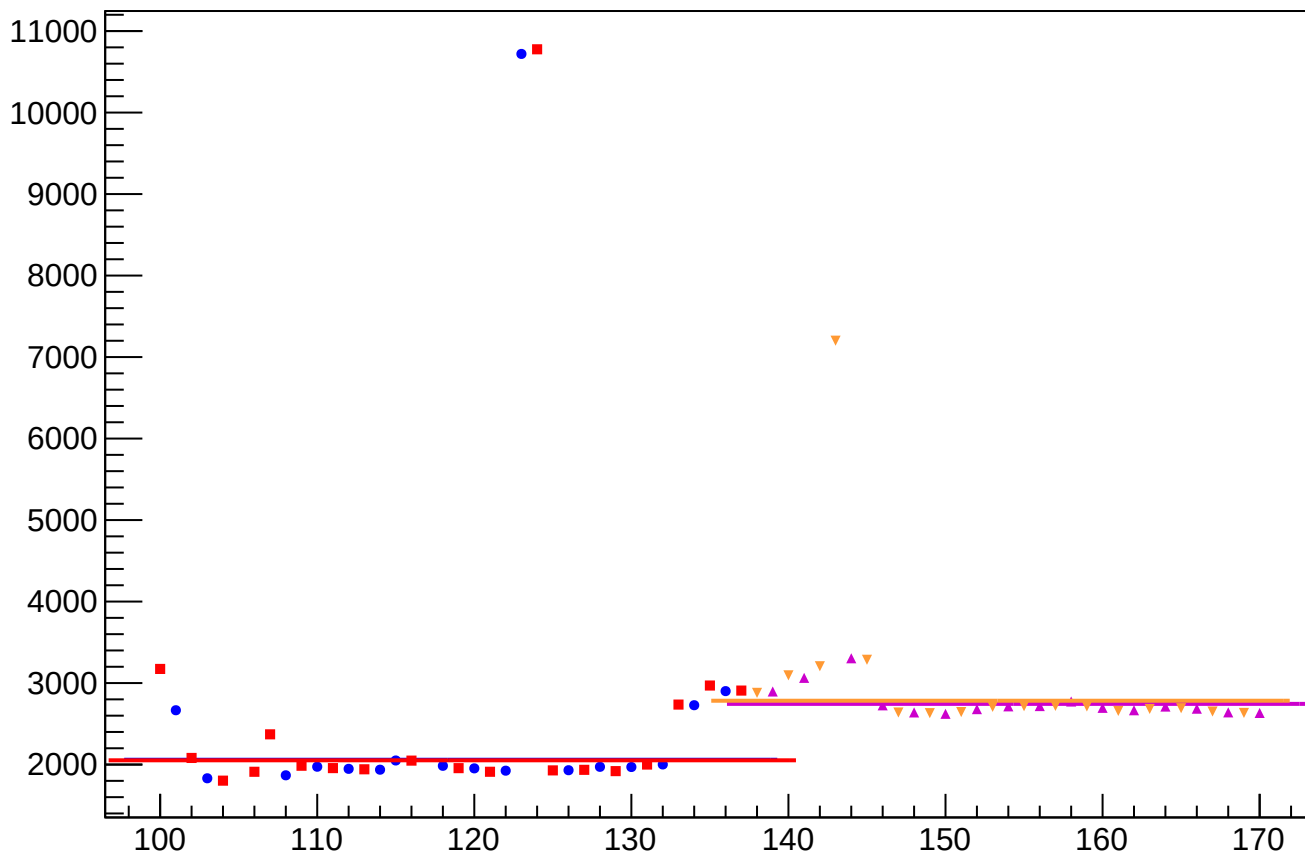
Right: 1802.263+/-566.080 χ^2/NDF : 26.2/35

In: 2555.996+/-561.577 χ^2/NDF : 16.7/32

Out: 966.726+/-558.687 χ^2/NDF : 58.5/35

All: 1757.260+/-396.069 χ^2/NDF : 79.2/68

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2058.963+/-0.574 χ^2/NDF : 318561.5/16

Left Out: 2783.184+/-0.559 χ^2/NDF : 602891.1/16

Right Out: 2052.260+/-0.559 χ^2/NDF : 443321.6/18

Left In: 2744.593+/-0.550 χ^2/NDF : 87286.8/15

Left: 2763.591+/-0.392 χ^2/NDF : 692600.4/32

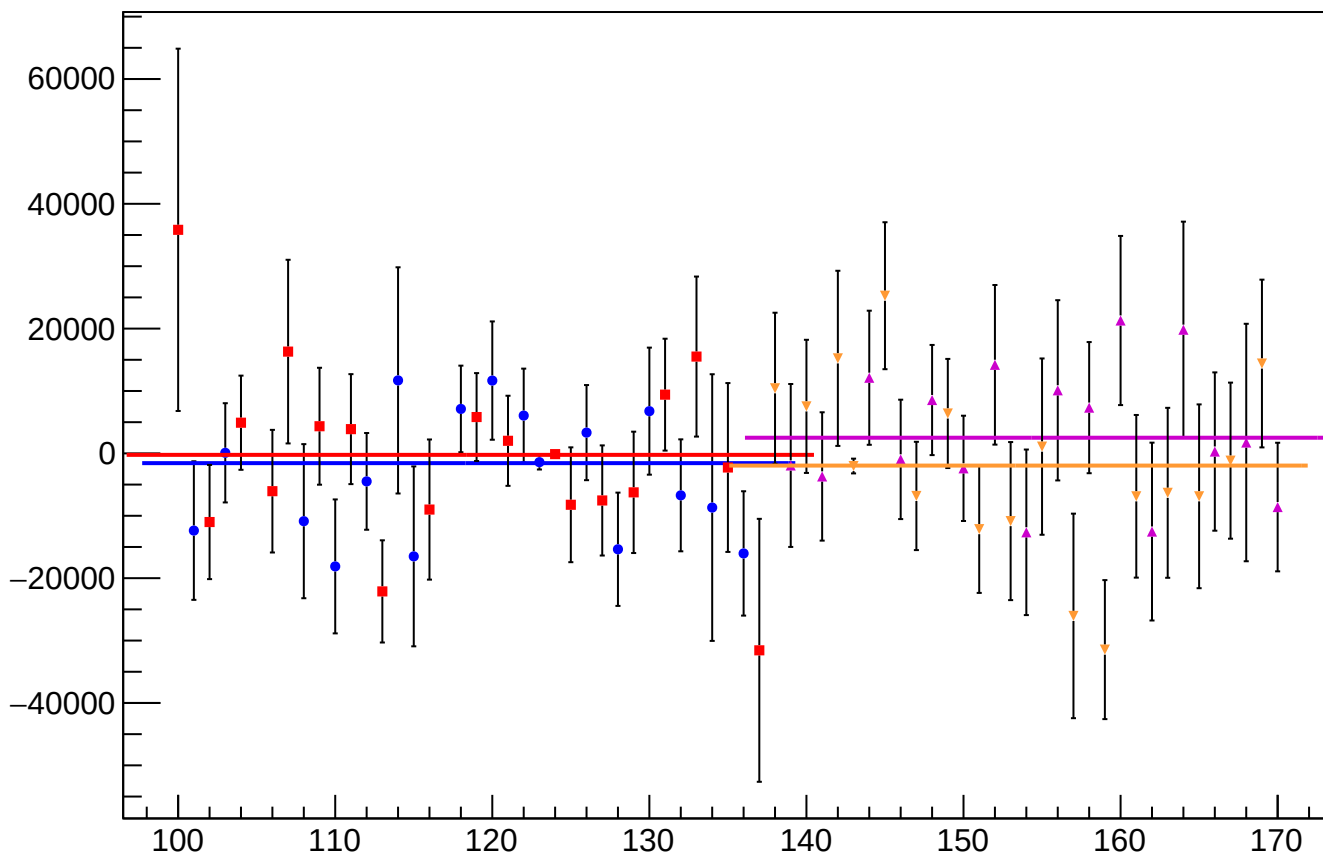
Right: 2055.522+/-0.400 χ^2/NDF : 761953.2/35

In: 2416.191+/-0.397 χ^2/NDF : 1149830.5/32

Out: 2417.727+/-0.395 χ^2/NDF : 1902029.2/35

All: 2416.963+/-0.280 χ^2/NDF : 3051867.3/68

asym_atl2_correction_mean vs Slug, Sign Corrected



Right In: -1563.218 $\pm$ 1053.946 χ^2/NDF : 16.2/16

Left Out: -1953.861 $\pm$ 1097.886 χ^2/NDF : 22.5/16

Right Out: -236.197 $\pm$ 695.167 χ^2/NDF : 20.8/18

Left In: 2508.956 $\pm$ 2892.625 χ^2/NDF : 10.1/15

Left: -1391.918 $\pm$ 1026.440 χ^2/NDF : 34.6/32

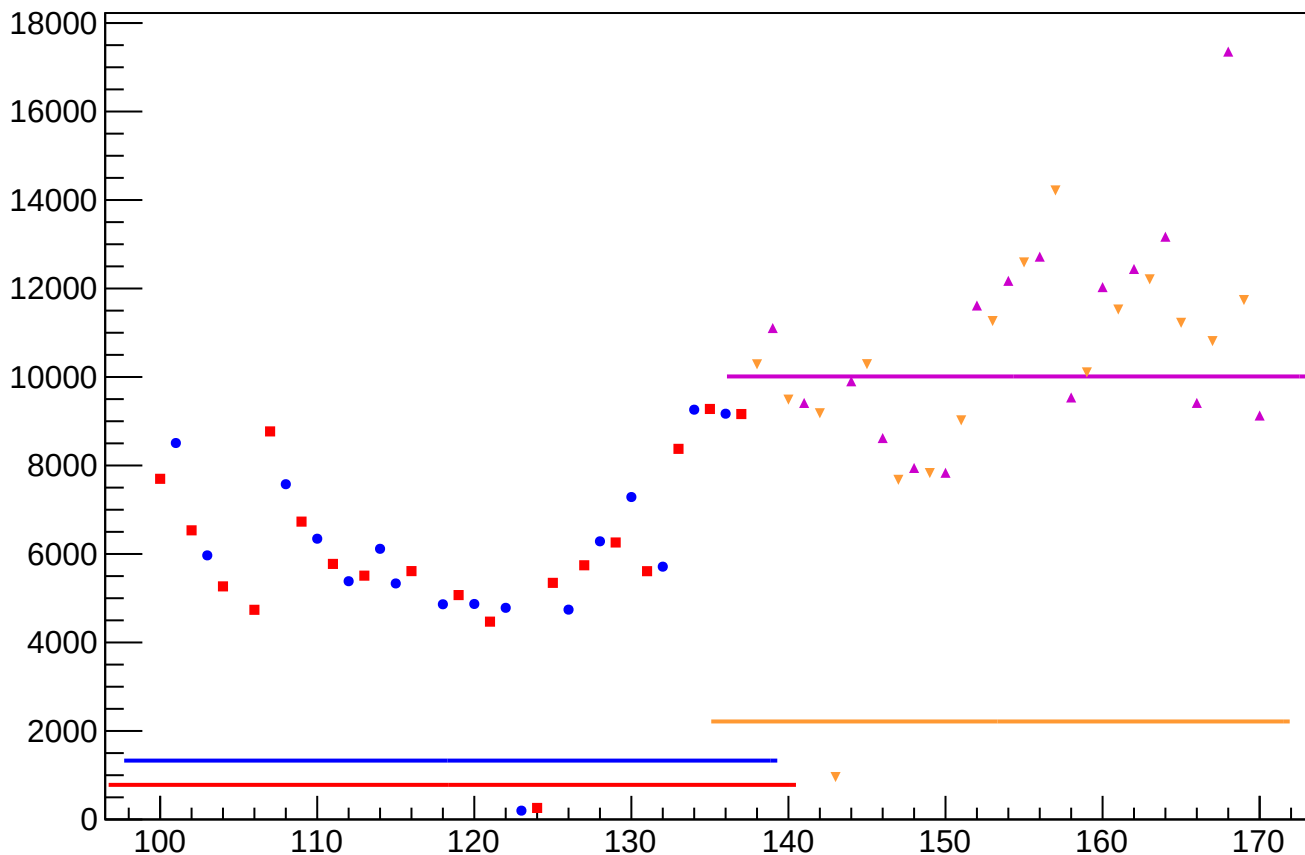
Right: -638.499 $\pm$ 580.304 χ^2/NDF : 38.1/35

In: -1085.972 $\pm$ 990.262 χ^2/NDF : 28.0/32

Out: -727.770 $\pm$ 587.329 χ^2/NDF : 45.0/35

All: -820.985 $\pm$ 505.161 χ^2/NDF : 73.1/68

asym_atl2_correction_rms vs Slug, Sign Corrected



Right In: 1330.250+/-0.745

χ^2/NDF : 10046828.9/16

Left: 3196.528+/-0.726

χ^2/NDF : 30633376.8/32

Left Out: 2214.679+/-0.776

χ^2/NDF : 16979038.9/16

Right: 948.102+/-0.410

χ^2/NDF : 21864055.1/35

Right Out: 781.848+/-0.492

χ^2/NDF : 11439893.7/18

In: 2347.758+/-0.700

χ^2/NDF : 26903430.5/32

Out: 1191.905+/-0.415

χ^2/NDF : 30850523.8/35

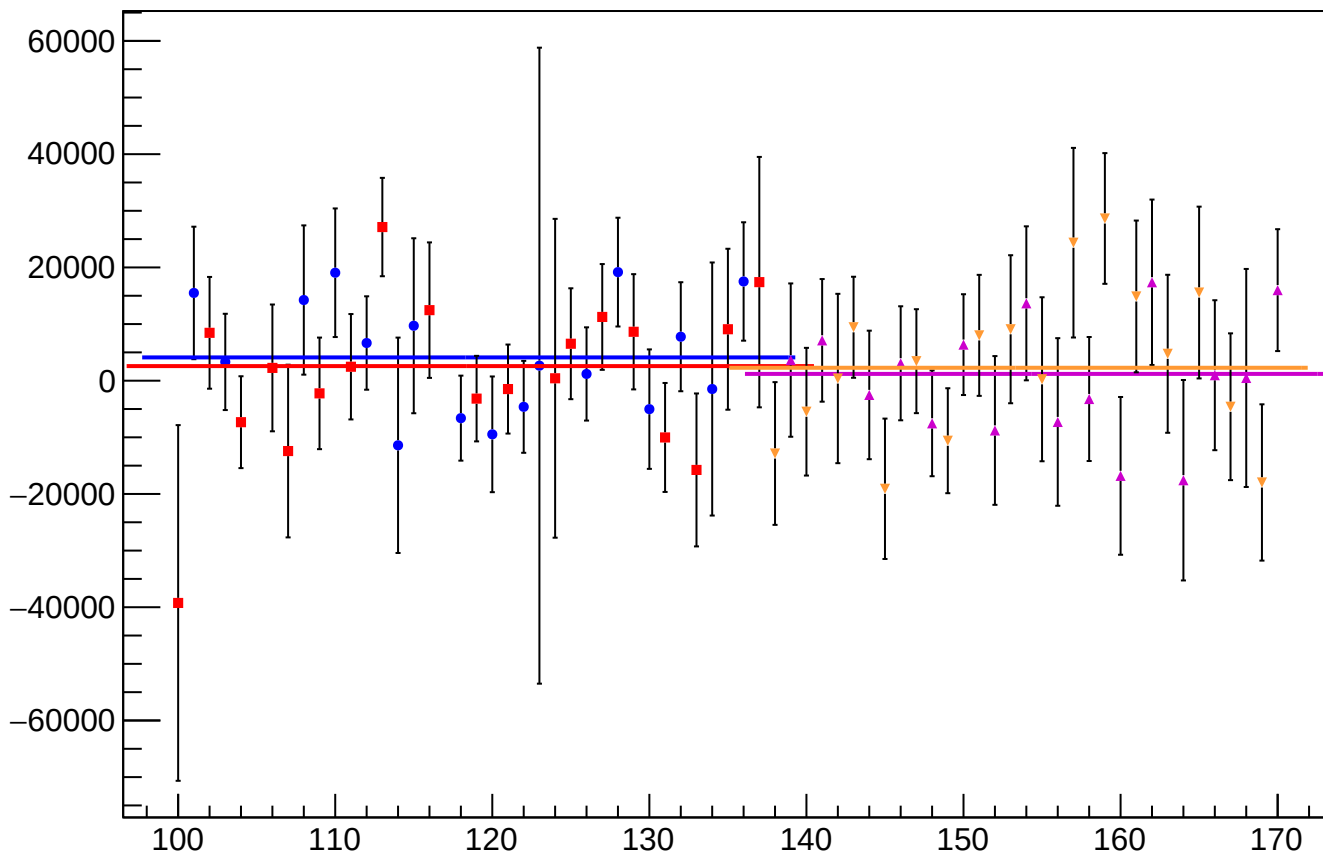
Left In: 10012.294+/-2.045

χ^2/NDF : 950871.7/15

All: 1492.694+/-0.357

χ^2/NDF : 59769679.8/6

asym_atl2_mean vs Slug, Sign Corrected



Right In: 4111.784 $\pm$ 2534.444 χ^2 /NDF: 14.3/16

Left Out: 2282.997 $\pm$ 2911.740 χ^2 /NDF:19.2/16

Right Out: 2577.719 $\pm$ 2420.480 χ^2 /NDF: 20.0/18

Left In: 1200.182 $\pm$ 3016.462 χ^2 /NDF:9.5/15

Left: 1760.711 $\pm$ 2094.955 χ^2 /NDF: 28.7/32

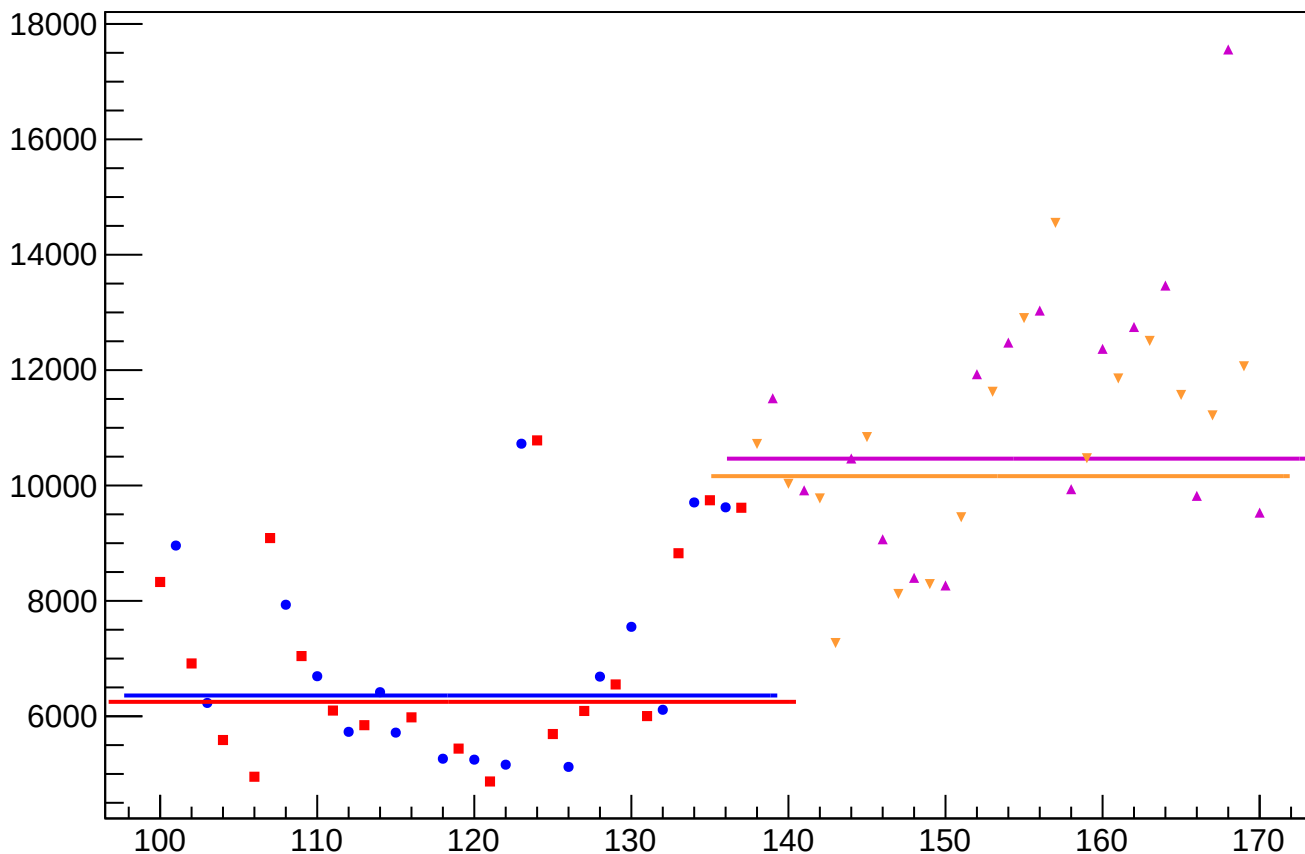
Right: 3309.487 $\pm$ 1750.441 χ^2 /NDF: 34.5/35

In: 2906.923 $\pm$ 1940.441 χ^2 /NDF:24.4/32

Out: 2457.282 $\pm$ 1861.340 χ^2 /NDF:39.1/35

All: 2672.751 $\pm$ 1343.260 χ^2 /NDF: 63.5/68

asym_atl2_rms vs Slug, Sign Corrected



Right In: 6359.928+/-1.792 χ^2/NDF : 580471.0/16

Left Out: 10162.142+/-2.059 χ^2/NDF : 803749.4/16

Right Out: 6250.049+/-1.711 χ^2/NDF : 532966.2/18

Left In: 10465.340+/-2.133 χ^2/NDF : 843968.2/15

Left: 10308.387+/-1.481 χ^2/NDF : 1658177.6/32

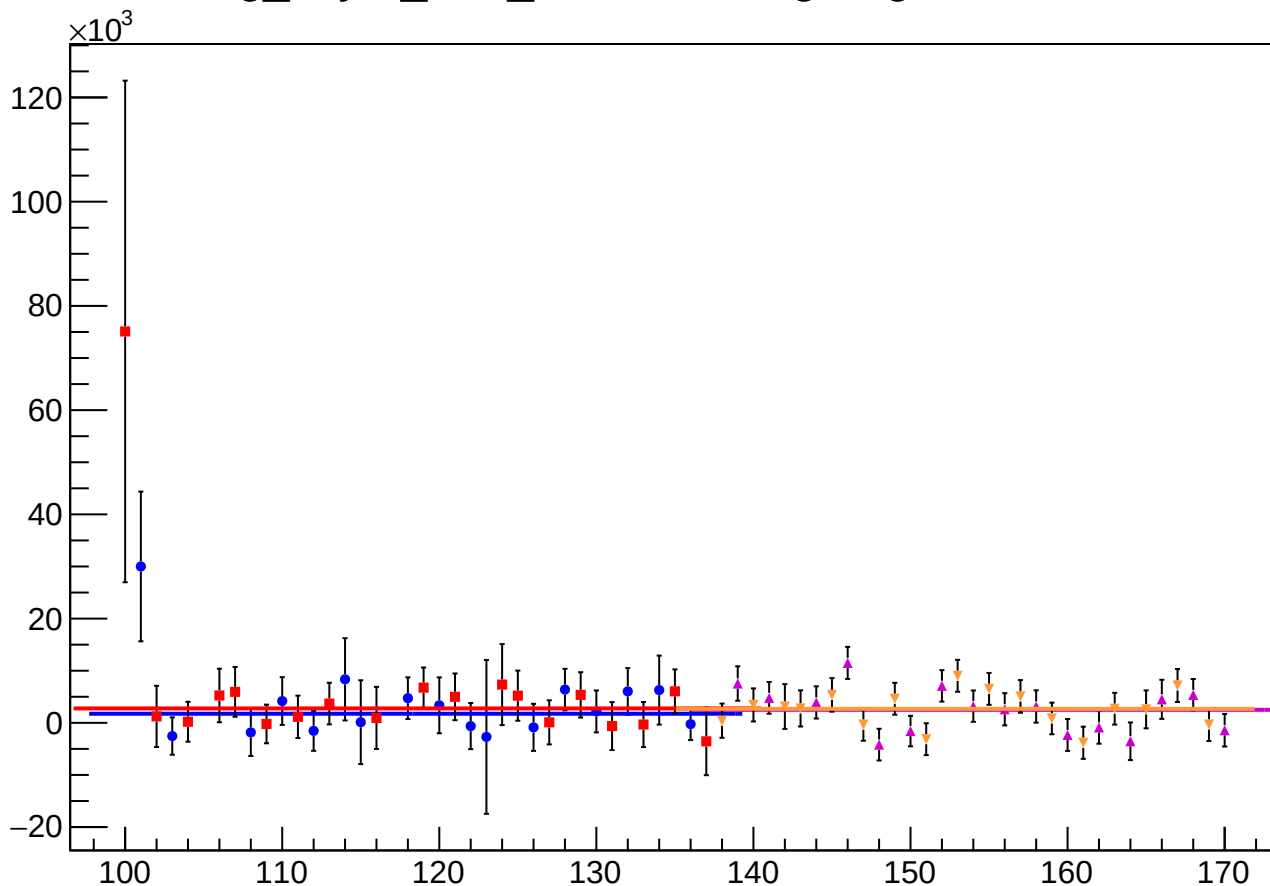
Right: 6302.460+/-1.238 χ^2/NDF : 1115403.3/35

In: 8058.795+/-1.372 χ^2/NDF : 3596064.7/32

Out: 7848.619+/-1.316 χ^2/NDF : 3471764.2/35

All: 7949.333+/-0.950 χ^2/NDF : 7080049.1/68

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 1746.001 ± 1128.522 χ^2/NDF : 12.2/16

Left Out: 2688.599 ± 777.066 χ^2/NDF : 20.4/16

Right Out: 2763.863 ± 1071.947 χ^2/NDF : 9.7/18

Left In: 2499.563 ± 783.274 χ^2/NDF : 30.1/15

Left: 2594.833 ± 551.650 χ^2/NDF : 50.5/32

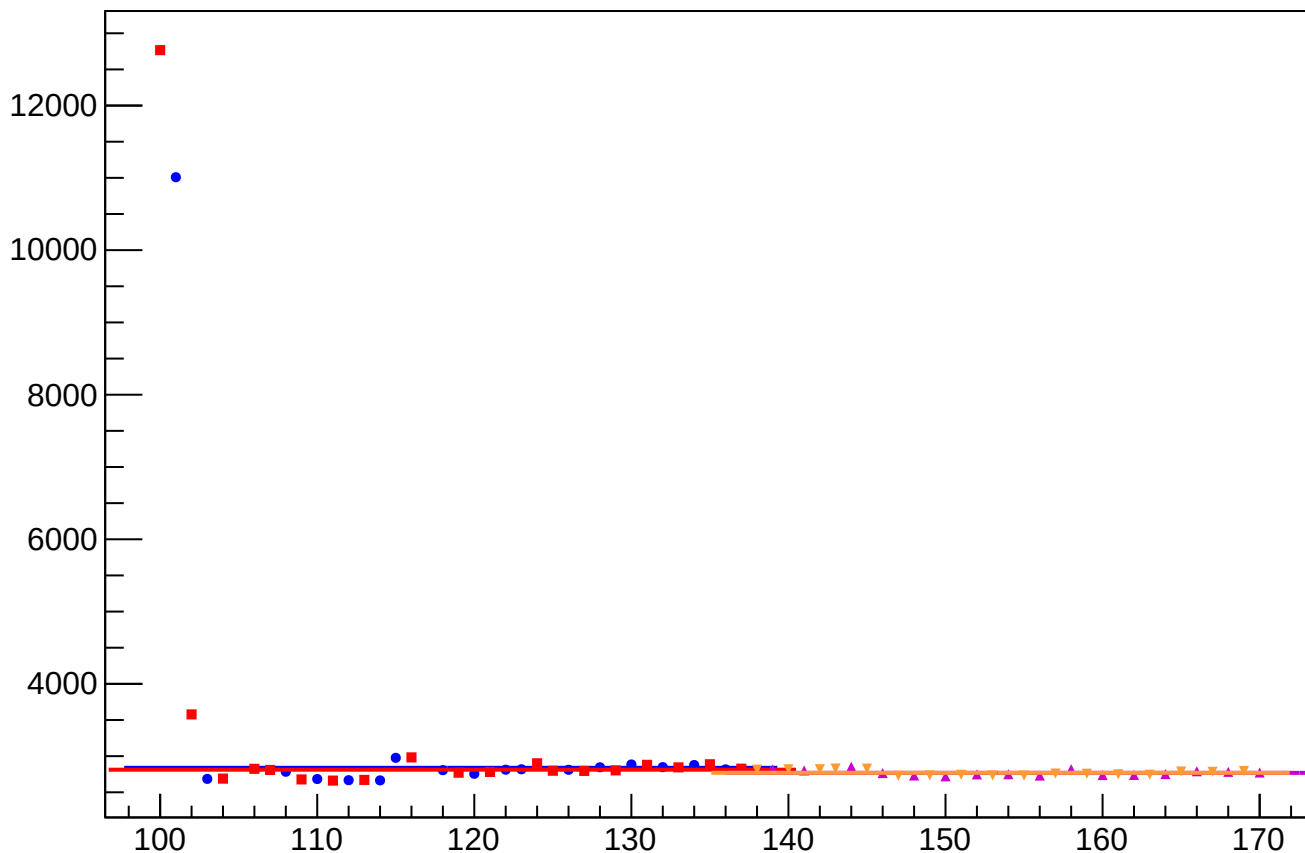
Right: 2281.084 ± 777.212 χ^2/NDF : 22.3/35

In: 2254.569 ± 643.471 χ^2/NDF : 42.6/32

Out: 2714.526 ± 629.147 χ^2/NDF : 30.1/35

All: 2489.723 ± 449.853 χ^2/NDF : 72.9/68

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2838.737+/-0.798 χ^2/NDF : 660209.3/16

Left Out: 2769.874+/-0.549 χ^2/NDF : 4218.1/16

Right Out: 2812.627+/-0.758 χ^2/NDF : 133064.0/18

Left In: 2768.924+/-0.554 χ^2/NDF : 4524.5/15

Left: 2769.403+/-0.390 χ^2/NDF : 8744.1/32

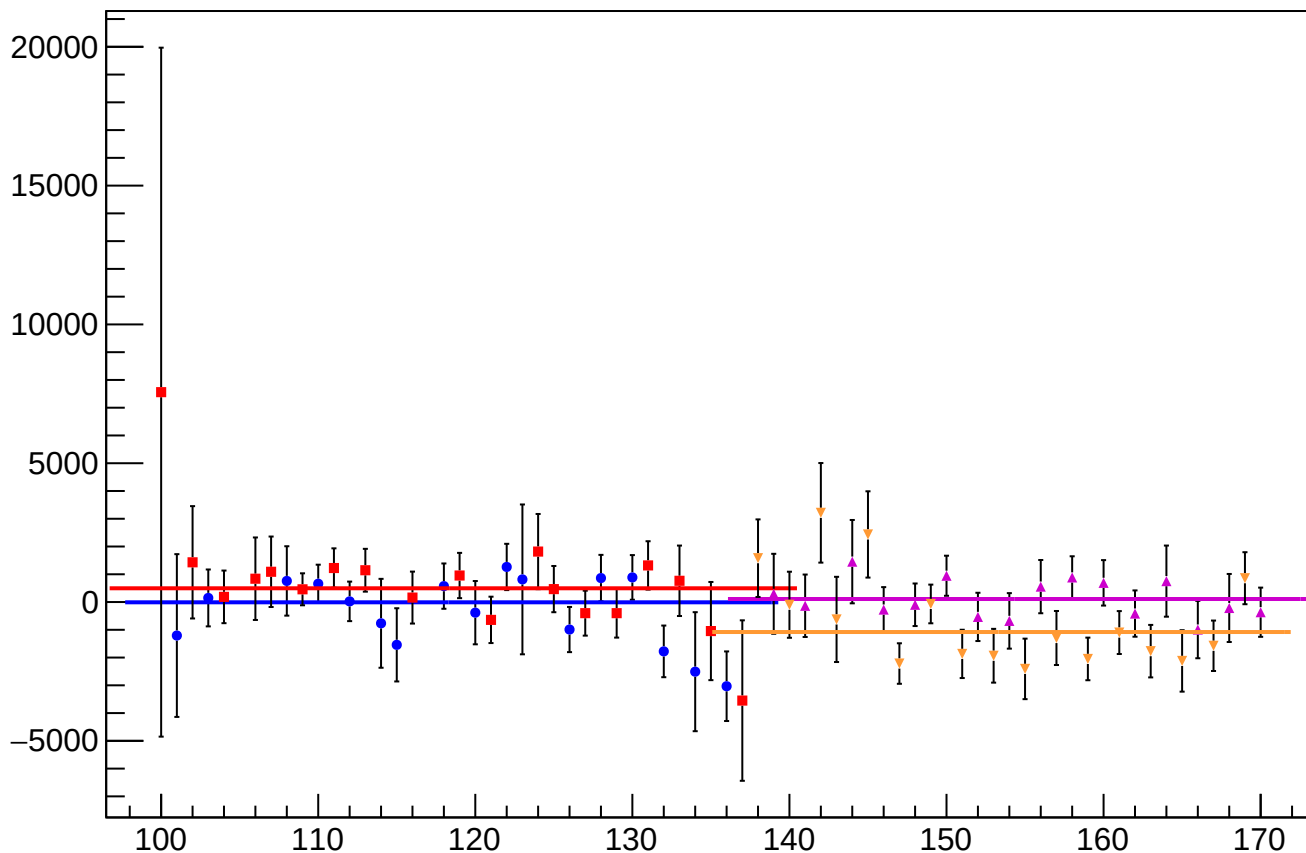
Right: 2825.011+/-0.550 χ^2/NDF : 793836.1/35

In: 2791.621+/-0.455 χ^2/NDF : 669899.3/32

Out: 2784.602+/-0.445 χ^2/NDF : 139367.6/35

All: 2788.033+/-0.318 χ^2/NDF : 809388.6/68

asym_atr1_correction_mean vs Slug, Sign Corrected



Right In: -9.845 ± 241.678 χ^2/NDF : 20.7/16

Left Out: -1080.033 ± 234.075 χ^2/NDF : 30.5/16

Right Out: 495.250 ± 221.487 χ^2/NDF : 11.9/18

Left In: 109.324 ± 233.047 χ^2/NDF : 7.6/15

Left: -482.737 ± 165.151 χ^2/NDF : 51.0/32

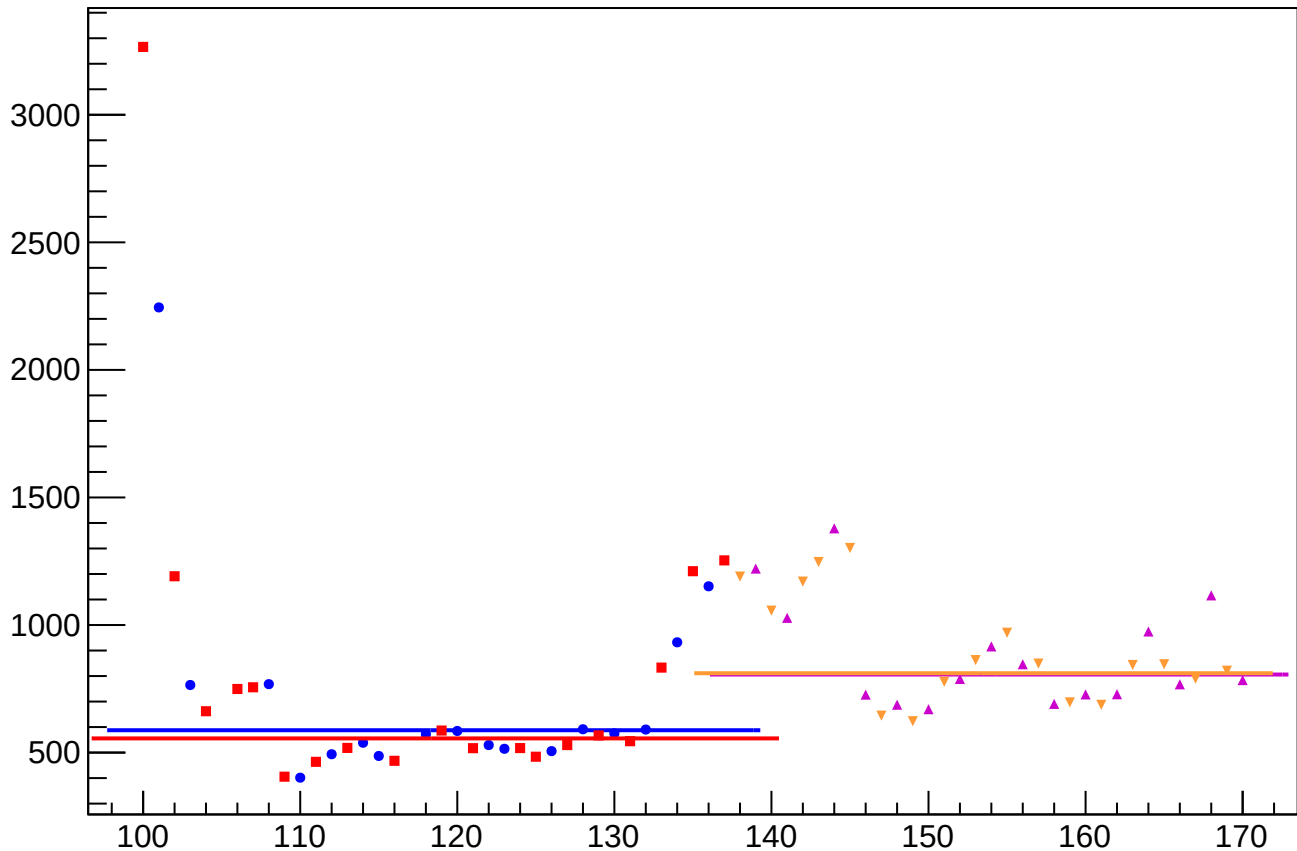
Right: 264.680 ± 163.287 χ^2/NDF : 35.0/35

In: 51.905 ± 167.758 χ^2/NDF : 28.4/32

Out: -248.896 ± 160.881 χ^2/NDF : 66.3/35

All: -104.787 ± 116.115 χ^2/NDF : 96.4/68

asym_atr1_correction_rms vs Slug, Sign Corrected



Right In: 587.596+/-0.171 χ^2/NDF : 1425769.6/16

Left Out: 811.102+/-0.166 χ^2/NDF :1078224.0/16

Right Out: 555.534+/-0.157 χ^2/NDF : 1106760.5/18

Left In: 805.902+/-0.165 χ^2/NDF :949560.4/15

Left: 808.491+/-0.117 χ^2/NDF : 2028280.0/32

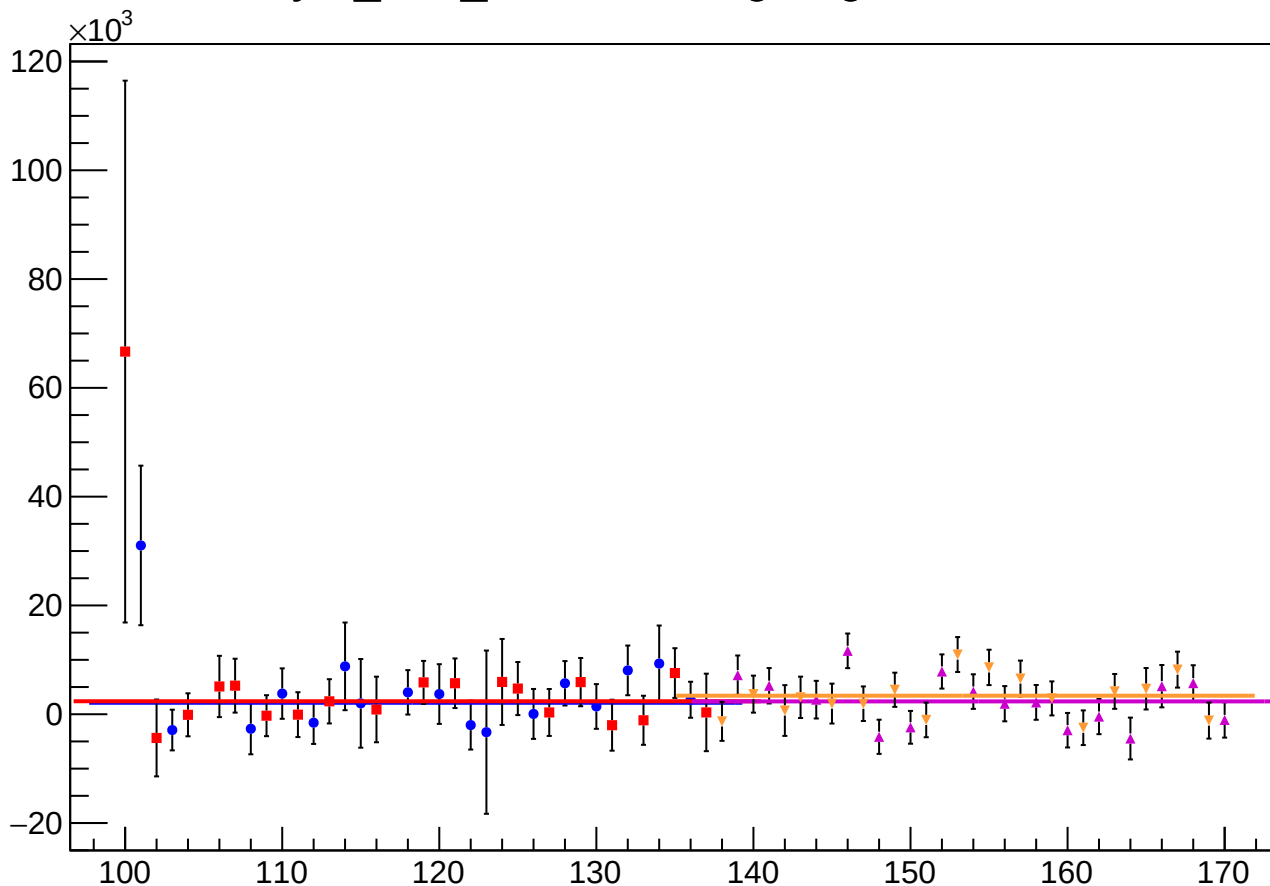
Right: 570.170+/-0.115 χ^2/NDF : 2551661.9/35

In: 700.717+/-0.119 χ^2/NDF :3220926.9/32

Out: 676.261+/-0.114 χ^2/NDF :3442883.7/35

All: 687.978+/-0.082 χ^2/NDF : 6685951.5/68

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2108.498 $\pm$ 1164.336 χ^2 /NDF: 13.5/16

Left Out: 3406.934 $\pm$ 820.329 χ^2 /NDF:21.2/16

Right Out: 2385.851 $\pm$ 1110.248 χ^2 /NDF: 9.9/18

Left In: 2358.358 $\pm$ 823.952 χ^2 /NDF:30.6/15

Left: 2884.956 $\pm$ 581.337 χ^2 /NDF: 52.6/32

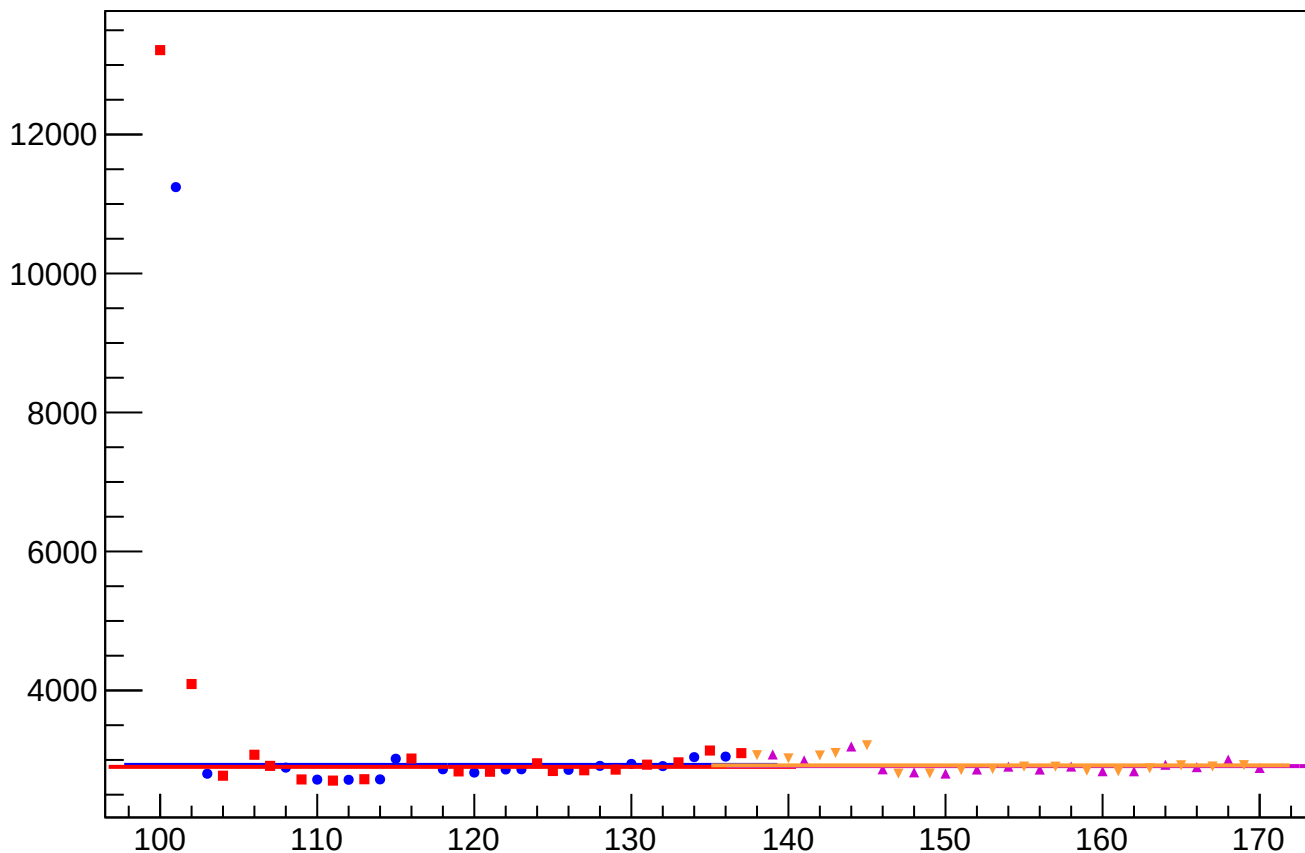
Right: 2253.766 $\pm$ 803.505 χ^2 /NDF: 23.4/35

In: 2274.985 $\pm$ 672.579 χ^2 /NDF:44.1/32

Out: 3046.348 $\pm$ 659.771 χ^2 /NDF:31.6/35

All: 2668.081 $\pm$ 470.992 χ^2 /NDF: 76.4/68

asym_atr1_rms vs Slug, Sign Corrected



Right In: 2928.700 $\pm$ 0.823 χ^2 /NDF: 662362.9/16

Left Out: 2921.965 $\pm$ 0.580 χ^2 /NDF: 33944.4/16

Right Out: 2900.472 $\pm$ 0.785 χ^2 /NDF: 169720.6/18

Left In: 2911.304 $\pm$ 0.583 χ^2 /NDF: 28421.2/15

Left: 2916.658 $\pm$ 0.411 χ^2 /NDF: 62533.7/32

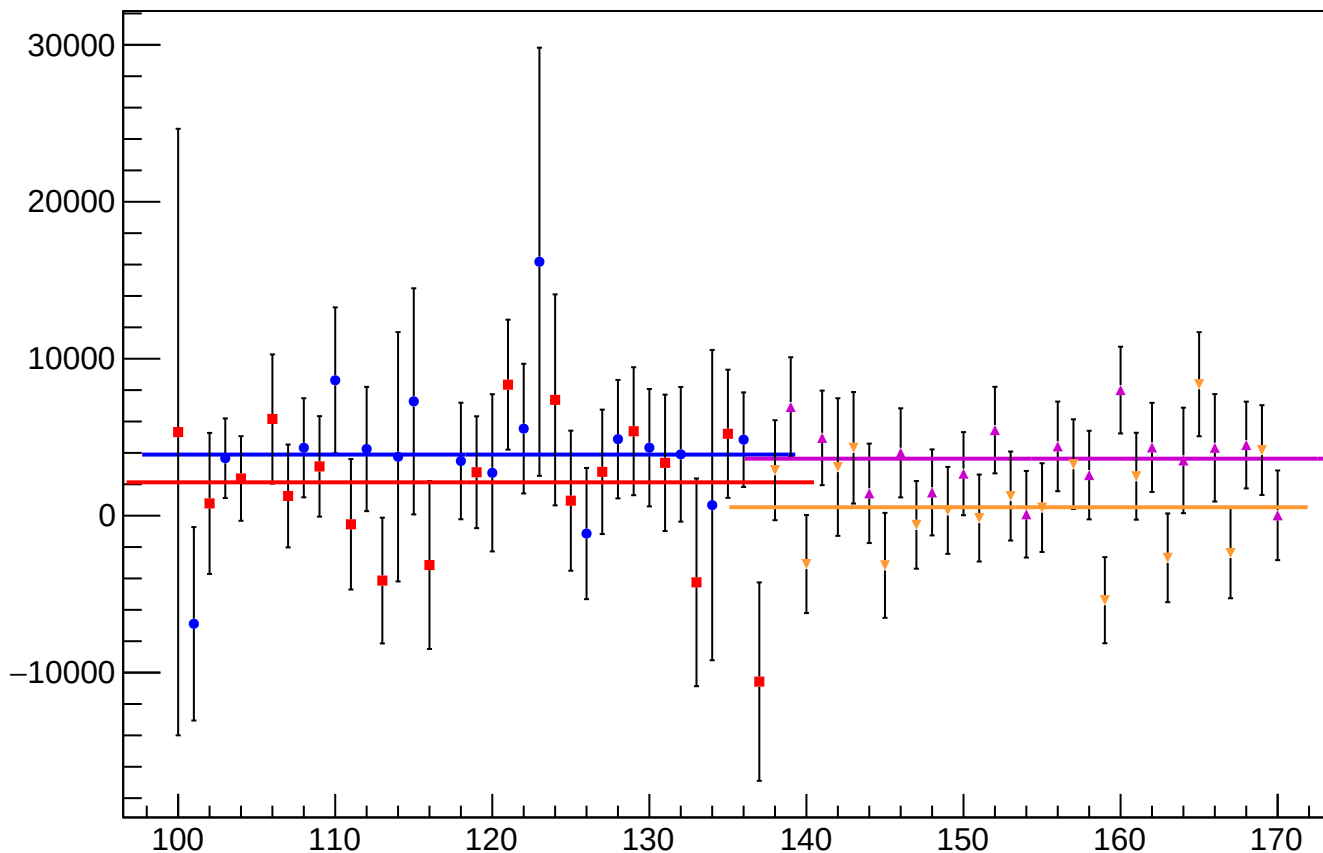
Right: 2913.915 $\pm$ 0.568 χ^2 /NDF: 832699.2/35

In: 2917.109 $\pm$ 0.476 χ^2 /NDF: 691081.6/32

Out: 2914.375 $\pm$ 0.467 χ^2 /NDF: 204149.9/35

All: 2915.716 $\pm$ 0.333 χ^2 /NDF: 895248.3/68

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 3892.504+/-1011.718 χ^2/NDF : 7.1/16

Left Out: 538.008+/-724.666 χ^2/NDF : 20.5/16

Right Out: 2124.700+/-958.418 χ^2/NDF : 14.3/18

Left In: 3630.675+/-724.998 χ^2/NDF : 9.1/15

Left: 2083.633+/-512.534 χ^2/NDF : 38.7/32

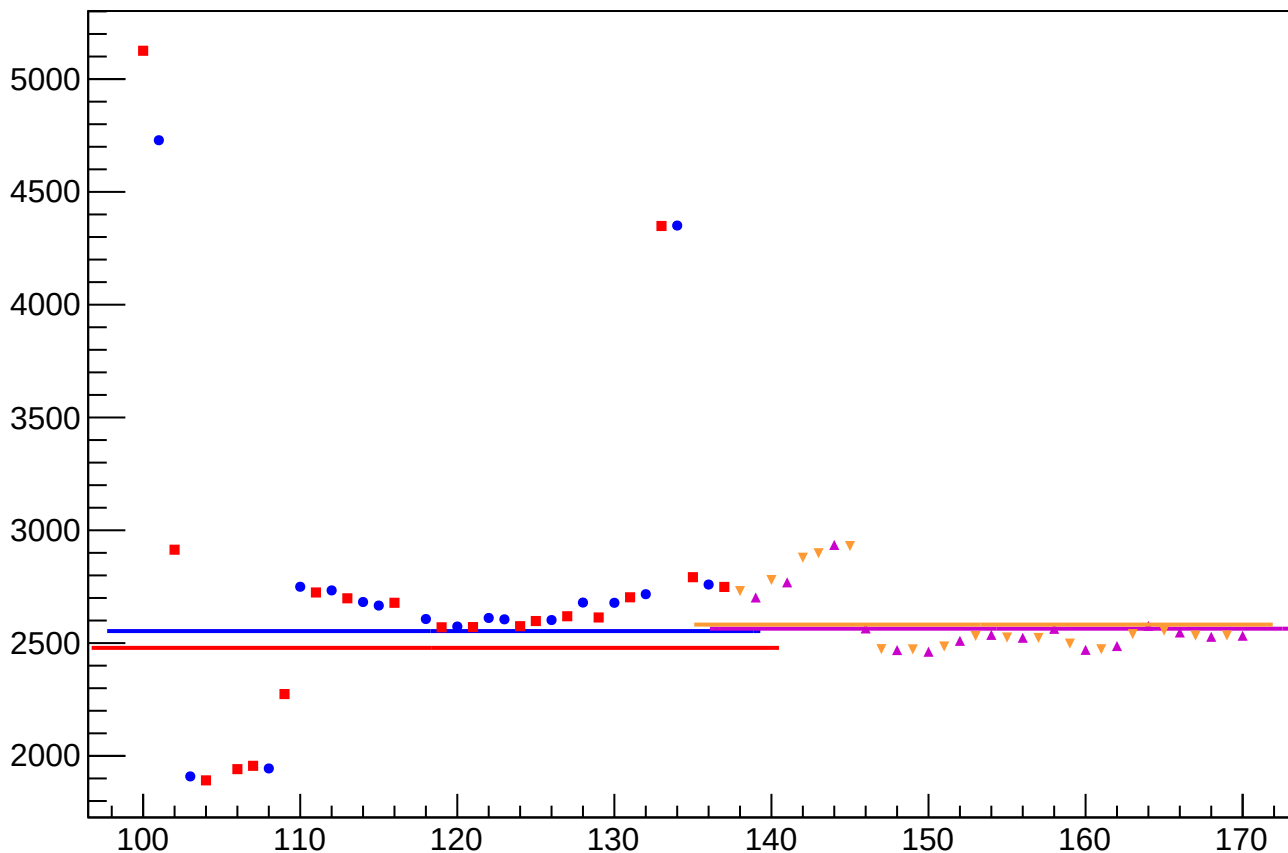
Right: 2960.811+/-695.784 χ^2/NDF : 23.1/35

In: 3719.510+/-589.309 χ^2/NDF : 16.3/32

Out: 1115.159+/-578.034 χ^2/NDF : 36.6/35

All: 2392.182+/-412.660 χ^2/NDF : 62.8/68

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2553.280+/-0.715 χ^2/NDF : 545226.9/16

Left Out: 2582.035+/-0.512 χ^2/NDF : 76664.8/16

Right Out: 2478.860+/-0.678 χ^2/NDF : 449502.6/18

Left In: 2563.861+/-0.513 χ^2/NDF : 51711.5/15

Left: 2572.952+/-0.362 χ^2/NDF : 129005.0/32

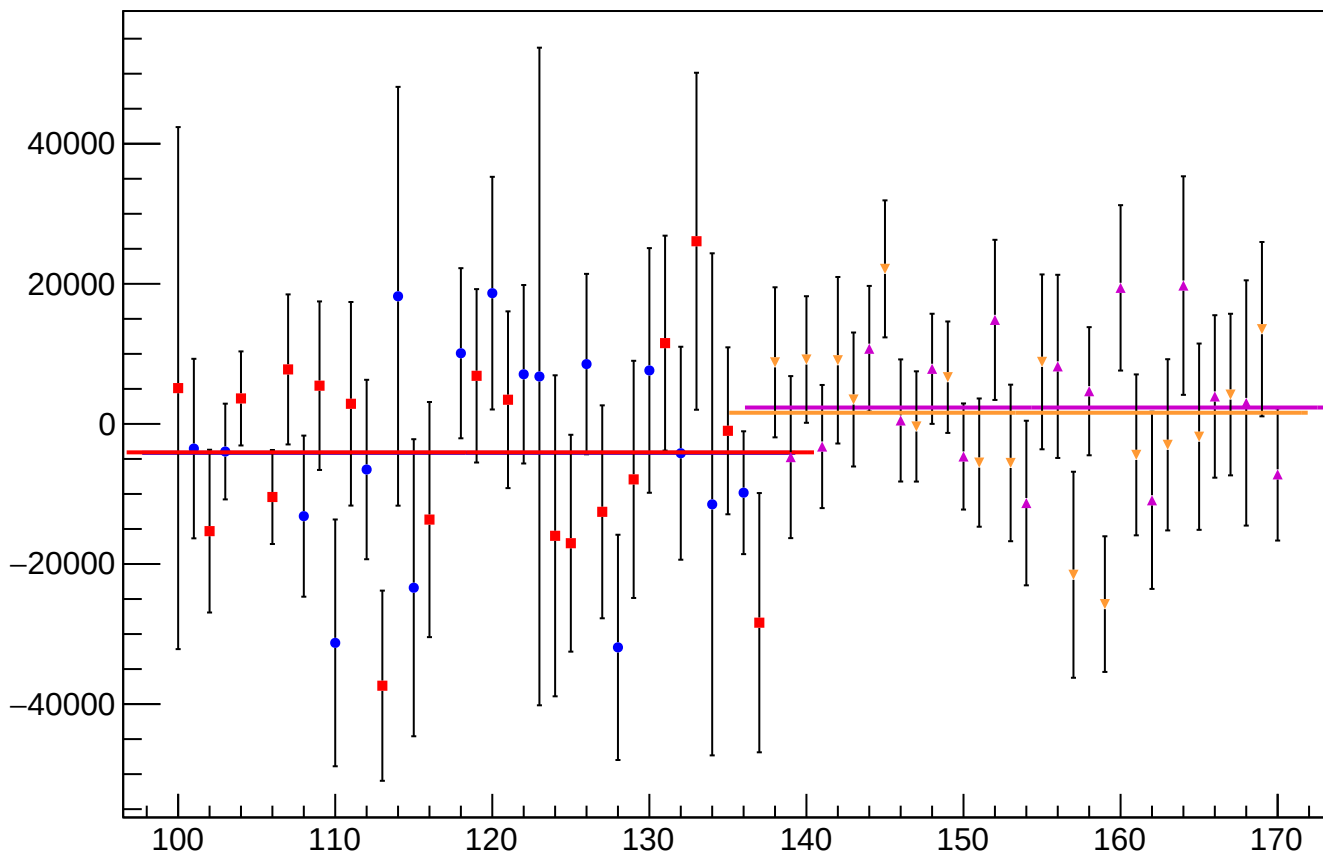
Right: 2514.058+/-0.492 χ^2/NDF : 1000433.0/35

In: 2560.271+/-0.417 χ^2/NDF : 597082.9/32

Out: 2544.505+/-0.409 χ^2/NDF : 540914.3/35

All: 2552.236+/-0.292 χ^2/NDF : 1138726.8/68

asym_atr2_correction_mean vs Slug, Sign Corrected



Right In: -4126.319 $\pm$ 3227.044 χ^2 /NDF: 13.4/16

Left Out: 1594.189 $\pm$ 2524.599 χ^2 /NDF:19.7/16

Right Out: -4060.328 $\pm$ 2834.326 χ^2 /NDF: 18.5/18

Left In: 2341.123 $\pm$ 2567.214 χ^2 /NDF:11.3/15

Left: 1961.405 $\pm$ 1800.039 χ^2 /NDF: 31.1/32

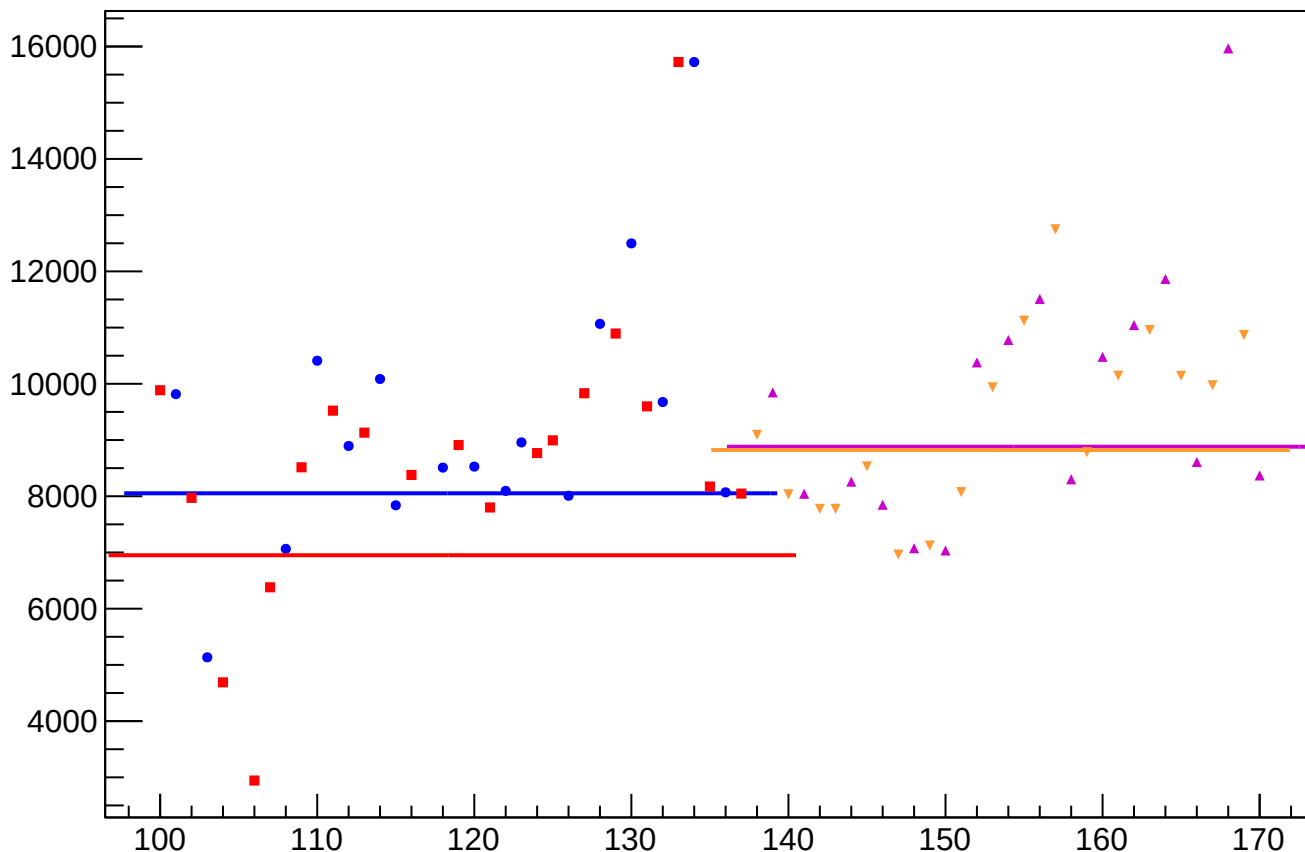
Right: -4089.066 $\pm$ 2129.557 χ^2 /NDF: 31.9/35

In: -165.537 $\pm$ 2009.029 χ^2 /NDF:27.2/32

Out: -907.347 $\pm$ 1885.191 χ^2 /NDF:40.4/35

All: -560.008 $\pm$ 1374.728 χ^2 /NDF: 67.7/68

asym_atr2_correction_rms vs Slug, Sign Corrected



Right In: 8052.552 $\pm$ 2.282 χ^2 /NDF: 790724.2/16

Left Out: 8822.643 $\pm$ 1.785 χ^2 /NDF: 685556.4/16

Right Out: 6950.943 $\pm$ 2.004 χ^2 /NDF: 1776578.9/18

Left In: 8881.243 $\pm$ 1.815 χ^2 /NDF: 972188.8/15

Left: 8851.453 $\pm$ 1.273 χ^2 /NDF: 1658274.9/32

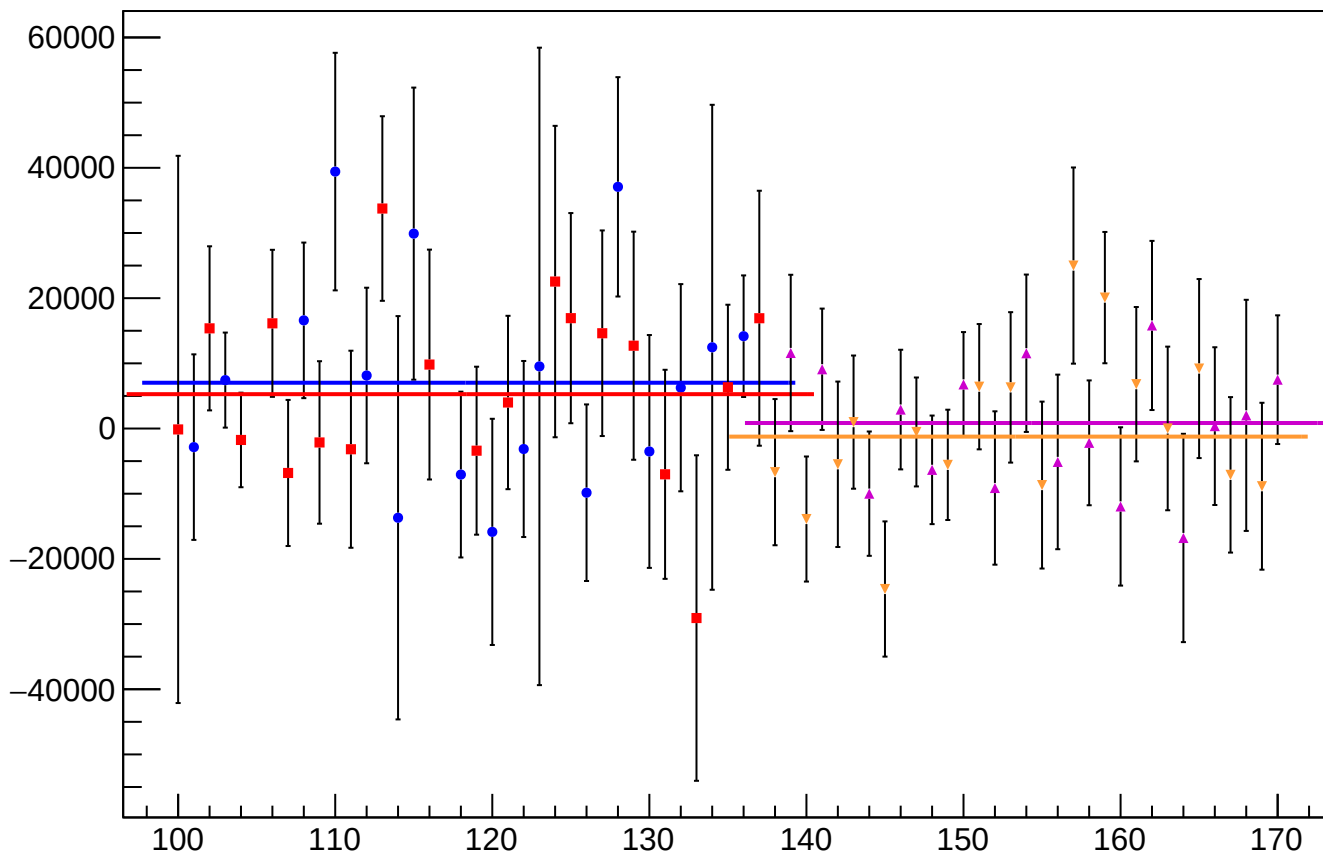
Right: 7430.673 $\pm$ 1.506 χ^2 /NDF: 2698872.2/35

In: 8560.058 $\pm$ 1.421 χ^2 /NDF: 1843683.9/32

Out: 7994.611 $\pm$ 1.333 χ^2 /NDF: 2948462.7/35

All: 8259.371 $\pm$ 0.972 χ^2 /NDF: 4876395.4/68

asym_atr2_mean vs Slug, Sign Corrected



Right In: 7025.400 $\pm$ 3409.490 χ^2/NDF : 15.0/16

Left Out: -1241.317 $\pm$ 2646.346 χ^2/NDF : 18.1/16

Right Out: 5271.793 $\pm$ 3168.195 χ^2/NDF : 13.4/18

Left In: 847.804 $\pm$ 2684.597 χ^2/NDF : 10.1/15

Left: -211.746 $\pm$ 1884.627 χ^2/NDF : 28.5/32

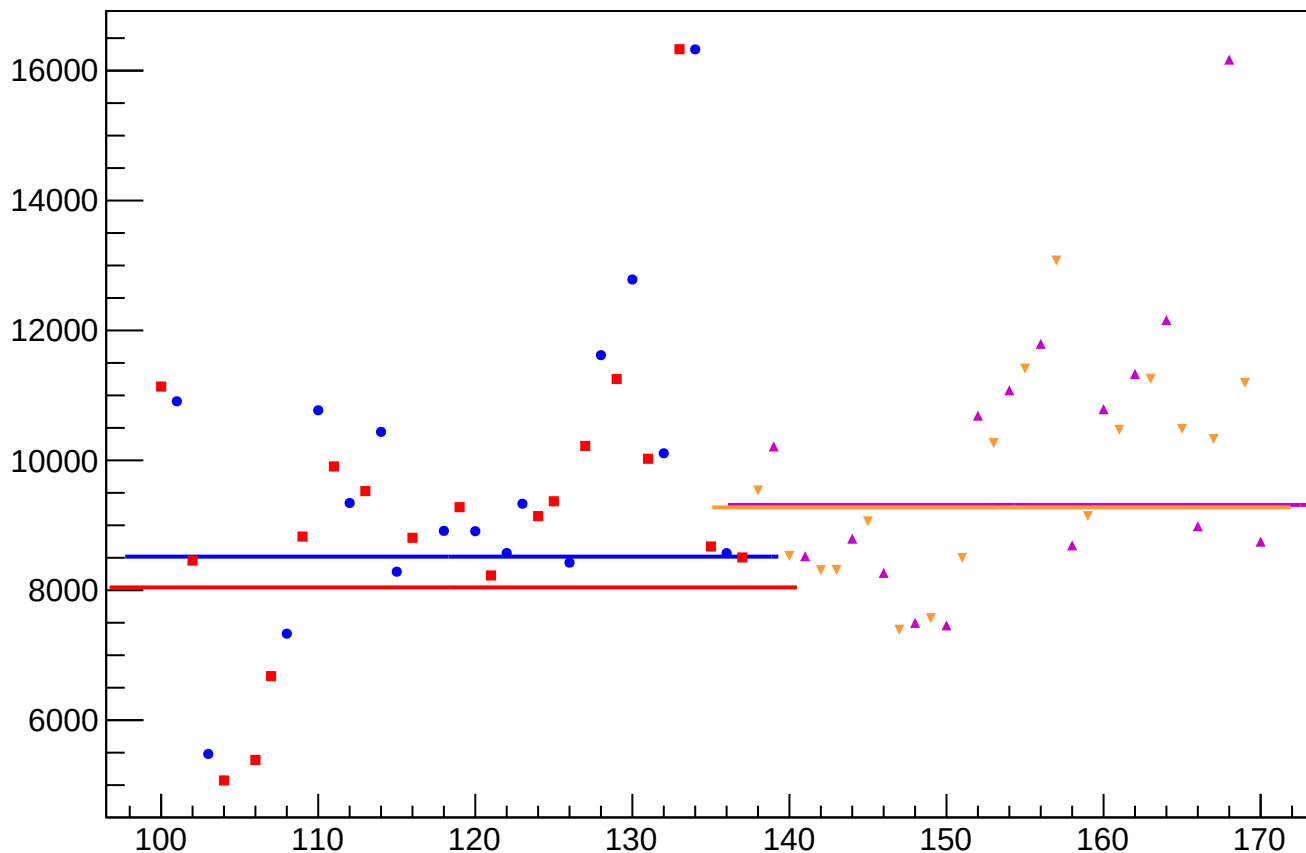
Right: 6084.354 $\pm$ 2320.872 χ^2/NDF : 28.5/35

In: 3212.028 $\pm$ 2109.230 χ^2/NDF : 27.2/32

Out: 1435.363 $\pm$ 2031.028 χ^2/NDF : 33.9/35

All: 2290.150 $\pm$ 1463.019 χ^2/NDF : 61.4/68

asym_atr2_rms vs Slug, Sign Corrected



Right In: 8517.886+/-2.411 χ^2/NDF : 763281.4/16

Left Out: 9275.726+/-1.871 χ^2/NDF : 583947.6/16

Right Out: 8043.998+/-2.240 χ^2/NDF : 952125.8/18

Left In: 9314.179+/-1.898 χ^2/NDF : 854785.6/15

Left: 9294.677+/-1.333 χ^2/NDF : 1438941.3/32

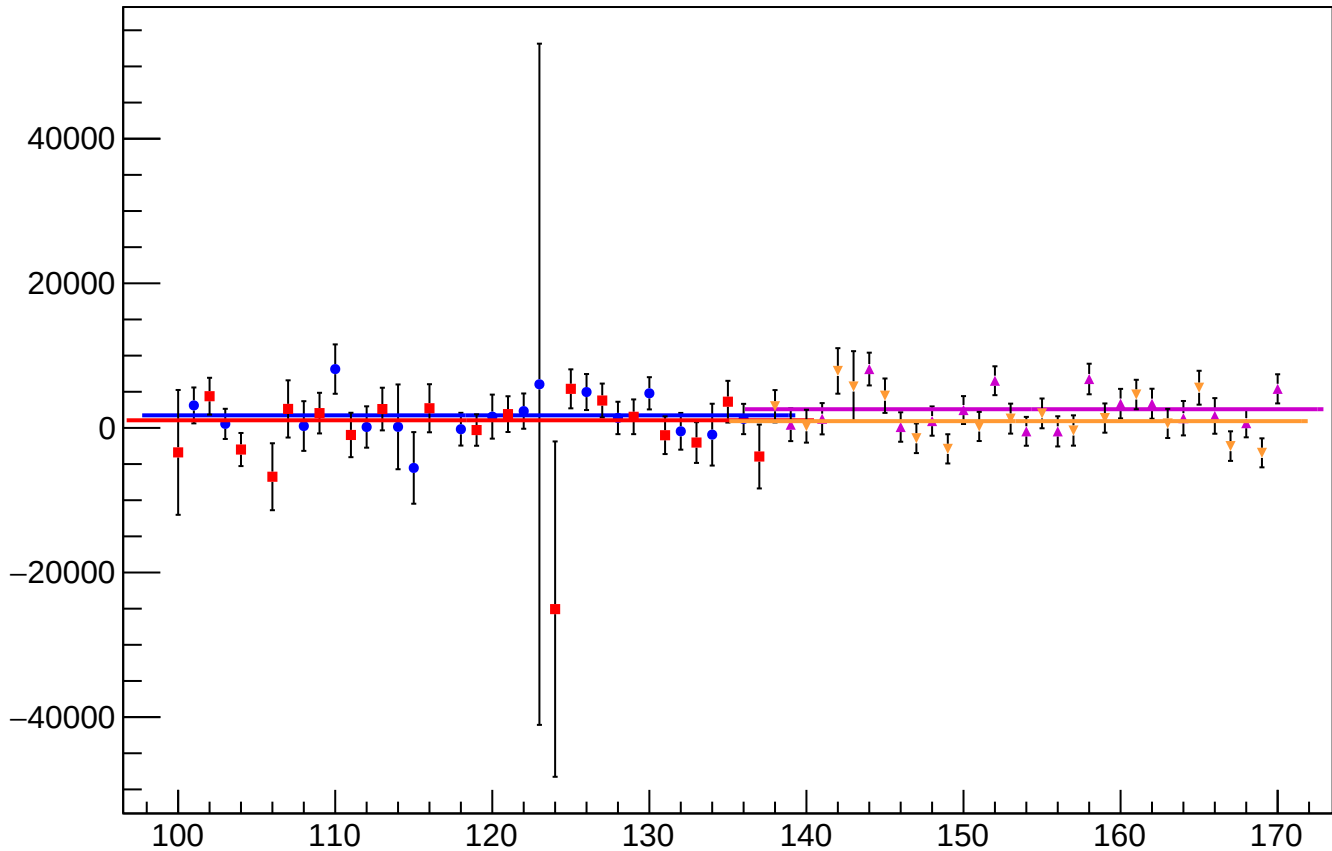
Right: 8263.573+/-1.641 χ^2/NDF : 1736141.9/35

In: 9009.430+/-1.491 χ^2/NDF : 1685409.1/32

Out: 8769.504+/-1.436 χ^2/NDF : 1714144.3/35

All: 8884.935+/-1.035 χ^2/NDF : 3412981.4/68

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1739.640 $\pm$ 670.395 χ^2 /NDF: 12.4/16

Left Out: 936.895 $\pm$ 531.582 χ^2 /NDF: 29.6/16

Right Out: 1055.584 $\pm$ 670.984 χ^2 /NDF: 18.9/18

Left In: 2585.959 $\pm$ 524.805 χ^2 /NDF: 25.3/15

Left: 1772.006 $\pm$ 373.466 χ^2 /NDF: 59.7/32

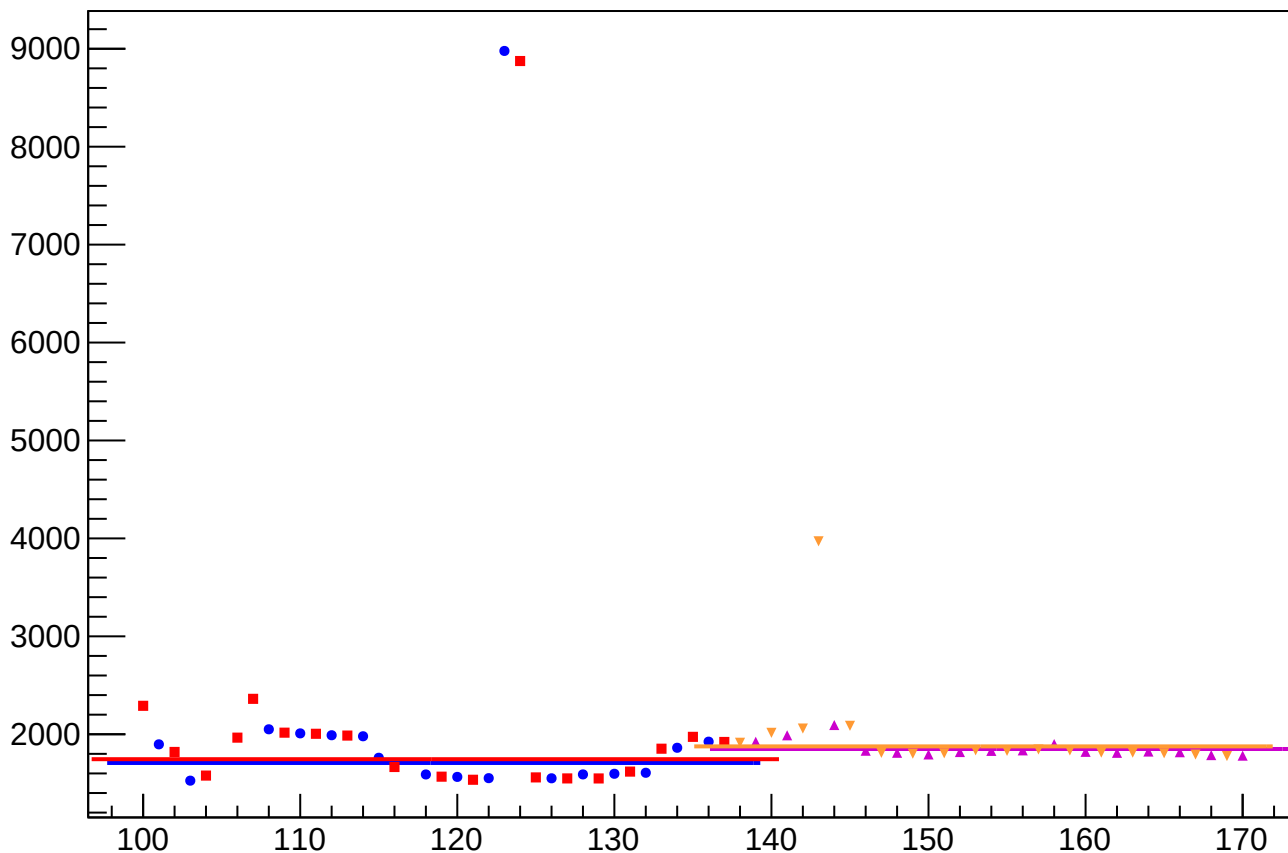
Right: 1397.913 $\pm$ 474.249 χ^2 /NDF: 31.8/35

In: 2264.385 $\pm$ 413.242 χ^2 /NDF: 38.7/32

Out: 982.663 $\pm$ 416.668 χ^2 /NDF: 48.4/35

All: 1628.815 $\pm$ 293.410 χ^2 /NDF: 91.9/68

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1706.867+/-0.474 χ^2/NDF : 197555.1/16

Left Out: 1876.187+/-0.376 χ^2/NDF : 421698.3/16

Right Out: 1745.434+/-0.472 χ^2/NDF : 399811.9/18

Left In: 1849.575+/-0.371 χ^2/NDF : 44256.8/15

Left: 1862.710+/-0.264 χ^2/NDF : 468493.5/32

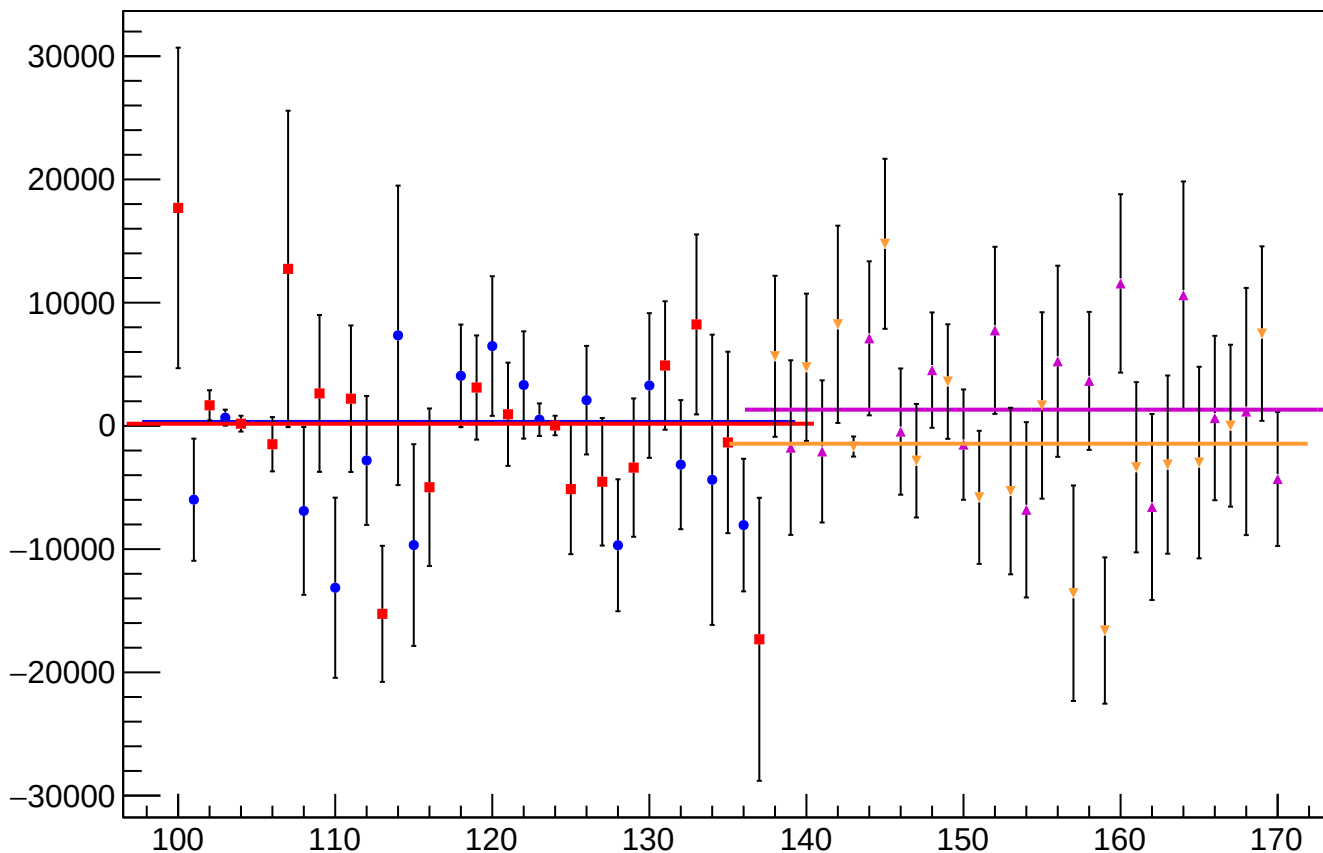
Right: 1726.220+/-0.335 χ^2/NDF : 600688.4/35

In: 1795.350+/-0.292 χ^2/NDF : 298004.5/32

Out: 1825.489+/-0.294 χ^2/NDF : 868426.8/35

All: 1810.322+/-0.207 χ^2/NDF : 1171715.8/68

asym_atl_avg_correction_mean vs Slug, Sign Corrected



Right In: 320.899+/-540.384 χ^2/NDF : 18.0/16

Left Out: -1445.149+/-724.902 χ^2/NDF :22.0/16

Right Out: 176.640+/-433.552 χ^2/NDF : 20.8/18

Left In: 1317.691+/-1554.343 χ^2/NDF :10.2/15

Left: -951.578+/-656.968 χ^2/NDF : 34.8/32

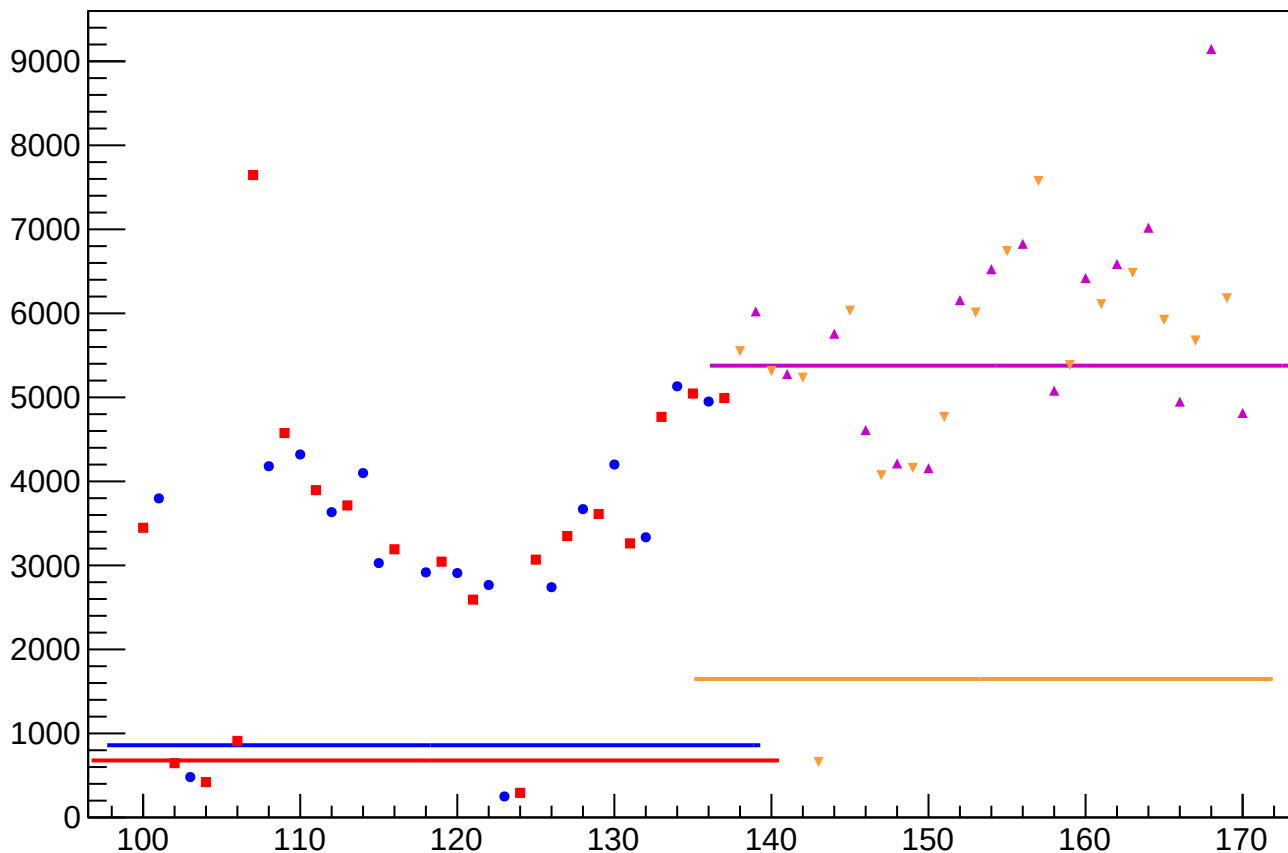
Right: 233.134+/-338.167 χ^2/NDF : 38.8/35

In: 428.387+/-510.417 χ^2/NDF :28.6/32

Out: -250.640+/-372.082 χ^2/NDF :46.4/35

All: -15.014+/-300.672 χ^2/NDF : 76.2/68

asym_atl_avg_correction_rms vs Slug, Sign Corrected



Right In: 859.557 $\pm$ 0.382 χ^2 /NDF: 8143264.5/16

Left Out: 1648.149 $\pm$ 0.513 χ^2 /NDF: 14775422.5/16

Right Out: 678.603 $\pm$ 0.307 χ^2 /NDF: 8384814.2/18

Left In: 5377.592 $\pm$ 1.099 χ^2 /NDF: 964088.4/15

Left: 2314.401 $\pm$ 0.465 χ^2 /NDF: 25196525.2/32

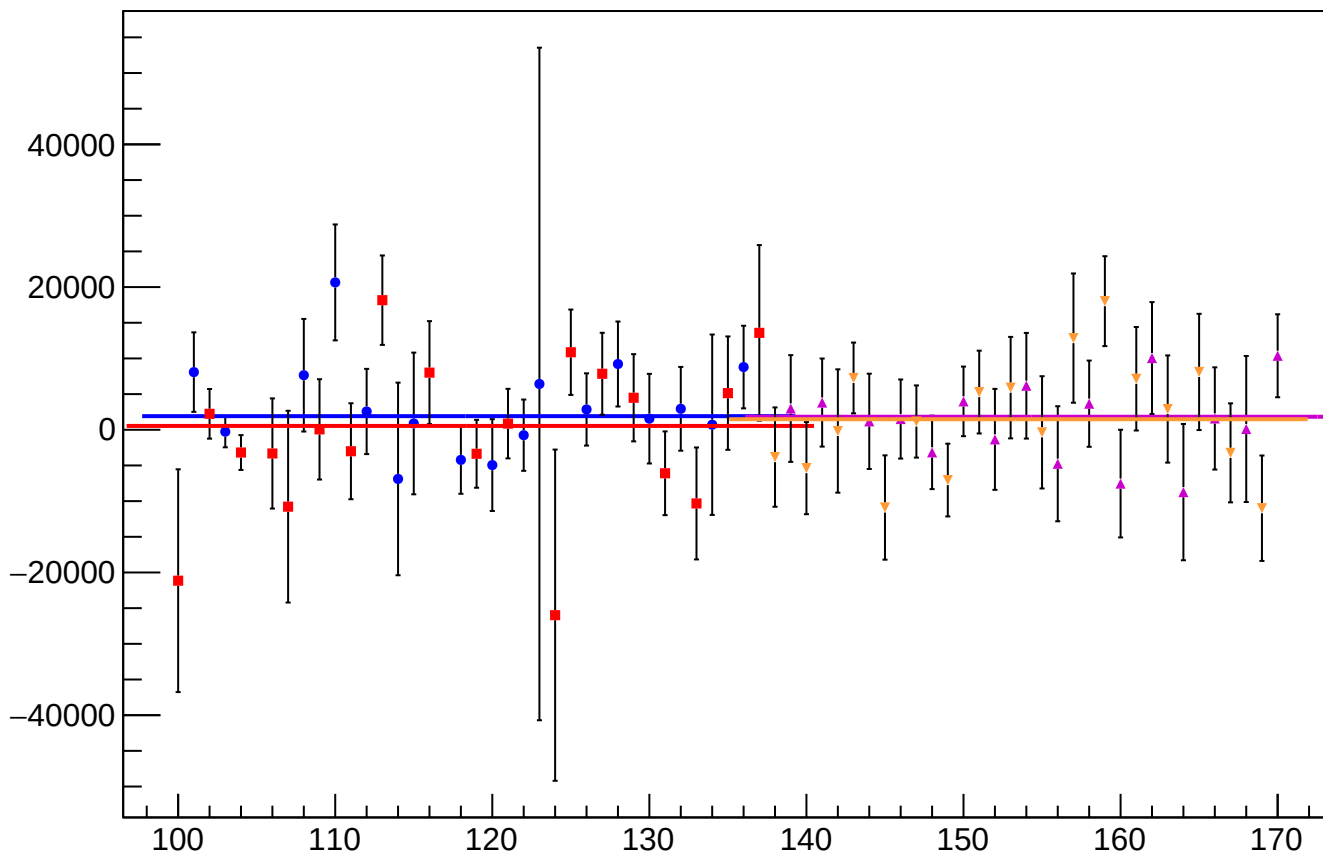
Right: 749.467 $\pm$ 0.239 χ^2 /NDF: 16664518.8/35

In: 1346.755 $\pm$ 0.361 χ^2 /NDF: 24183166.3/32

Out: 934.042 $\pm$ 0.263 χ^2 /NDF: 25795376.0/35

All: 1077.256 $\pm$ 0.213 χ^2 /NDF: 50832403.1/6

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1909.348+/-1310.219 χ^2/NDF : 14.6/16

Left Out: 1479.748+/-1603.728 χ^2/NDF : 22.7/16

Right Out: 539.549+/-1285.817 χ^2/NDF : 26.4/18

Left In: 1825.900+/-1659.108 χ^2/NDF : 8.6/15

Left: 1646.951+/-1153.088 χ^2/NDF : 31.4/32

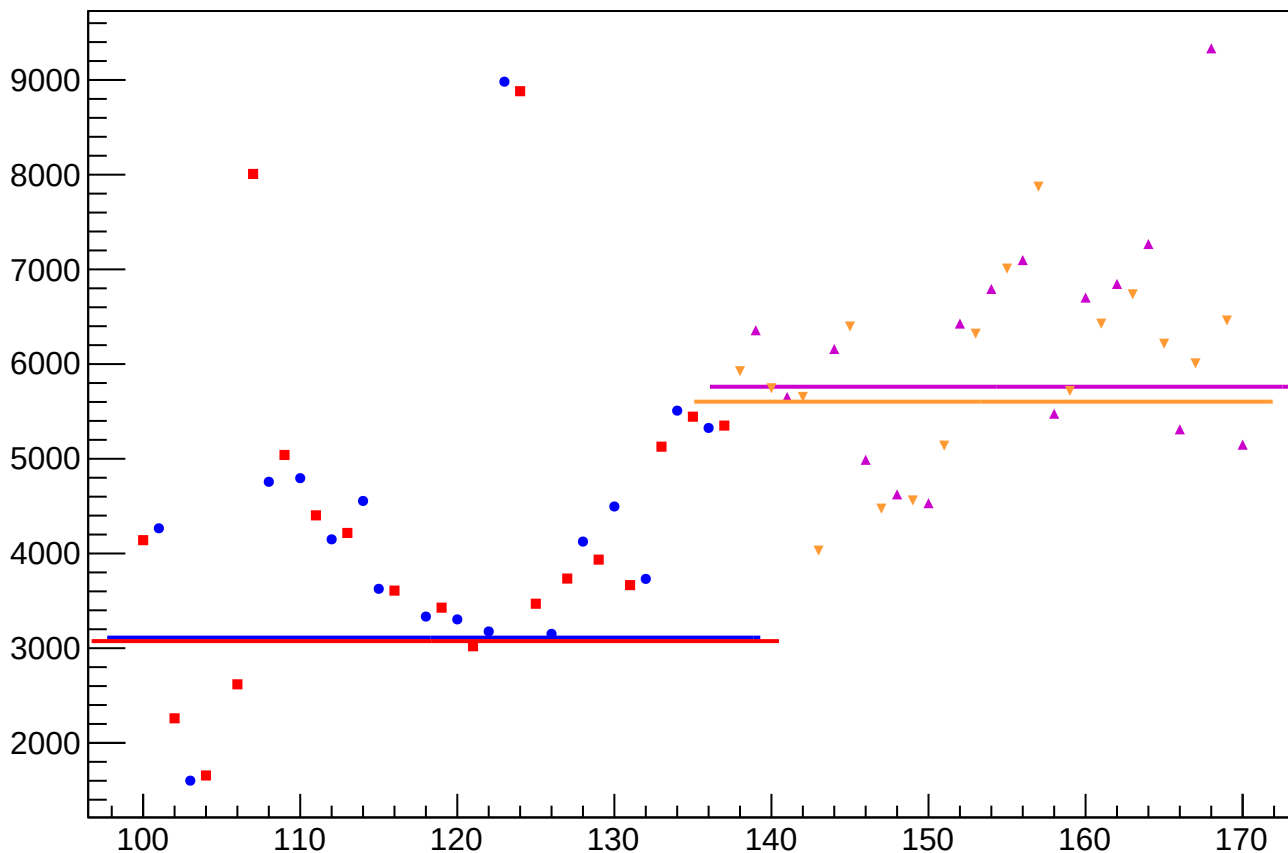
Right: 1211.574+/-917.716 χ^2/NDF : 41.6/35

In: 1877.295+/-1028.249 χ^2/NDF : 23.2/32

Out: 907.444+/-1003.189 χ^2/NDF : 49.3/35

All: 1380.407+/-718.058 χ^2/NDF : 73.0/68

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3111.825+/-0.926 χ^2/NDF : 1879558.6/16

Left Out: 5603.278+/-1.134 χ^2/NDF : 752890.6/16

Right Out: 3074.771+/-0.896 χ^2/NDF : 2005627.6/18

Left In: 5760.767+/-1.173 χ^2/NDF : 792967.9/15

Left: 5679.350+/-0.815 χ^2/NDF : 1555174.9/32

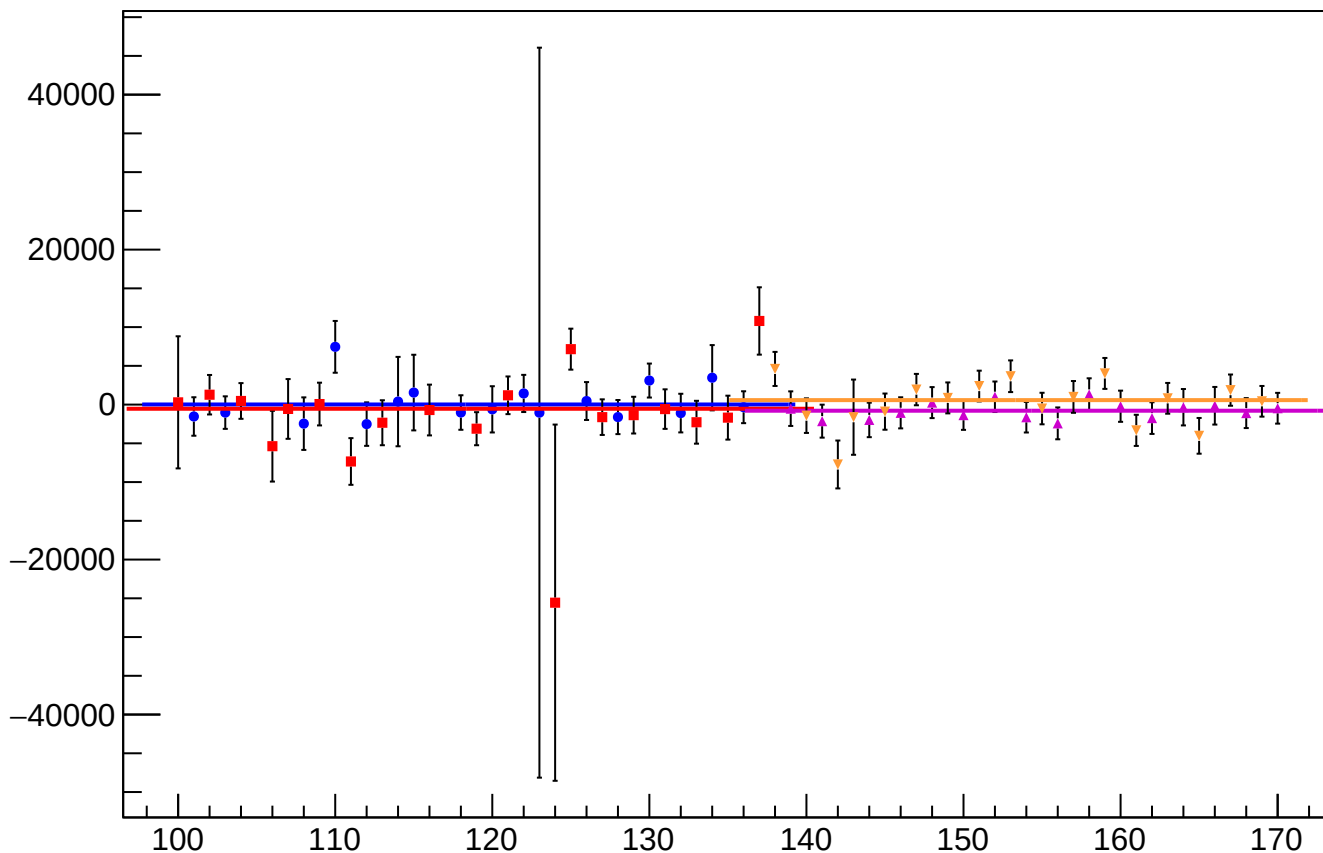
Right: 3092.680+/-0.644 χ^2/NDF : 3886012.7/35

In: 4129.284+/-0.727 χ^2/NDF : 5812573.6/32

Out: 4046.665+/-0.703 χ^2/NDF : 5819164.9/35

All: 4086.587+/-0.505 χ^2/NDF : 11638411.3/6

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 14.118 ± 661.101 χ^2/NDF : 11.1/16

Left Out: 577.327 ± 523.676 χ^2/NDF : 27.1/16

Right Out: -537.476 ± 661.143 χ^2/NDF : 26.7/18

Left In: -790.148 ± 517.115 χ^2/NDF : 4.2/15

Left: -115.030 ± 367.953 χ^2/NDF : 34.7/32

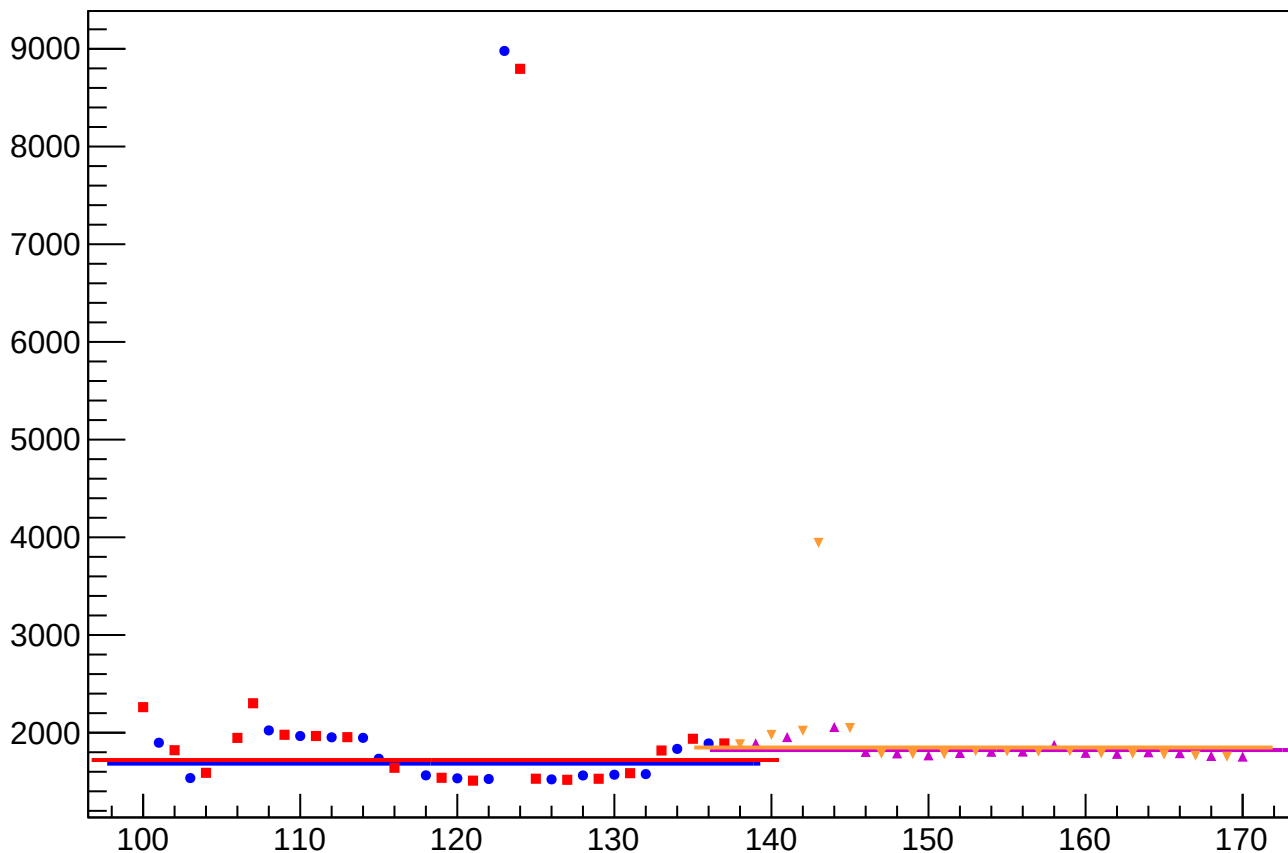
Right: -261.662 ± 467.484 χ^2/NDF : 38.1/35

In: -484.856 ± 407.311 χ^2/NDF : 16.2/32

Out: 147.551 ± 410.504 χ^2/NDF : 55.5/35

All: -171.121 ± 289.135 χ^2/NDF : 72.9/68

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1683.259+/-0.467 χ^2/NDF : 195893.7/16

Left Out: 1848.218+/-0.370 χ^2/NDF : 423468.4/16

Right Out: 1720.379+/-0.465 χ^2/NDF : 396099.9/18

Left In: 1822.496+/-0.366 χ^2/NDF : 42368.0/15

Left: 1835.195+/-0.260 χ^2/NDF : 468279.4/32

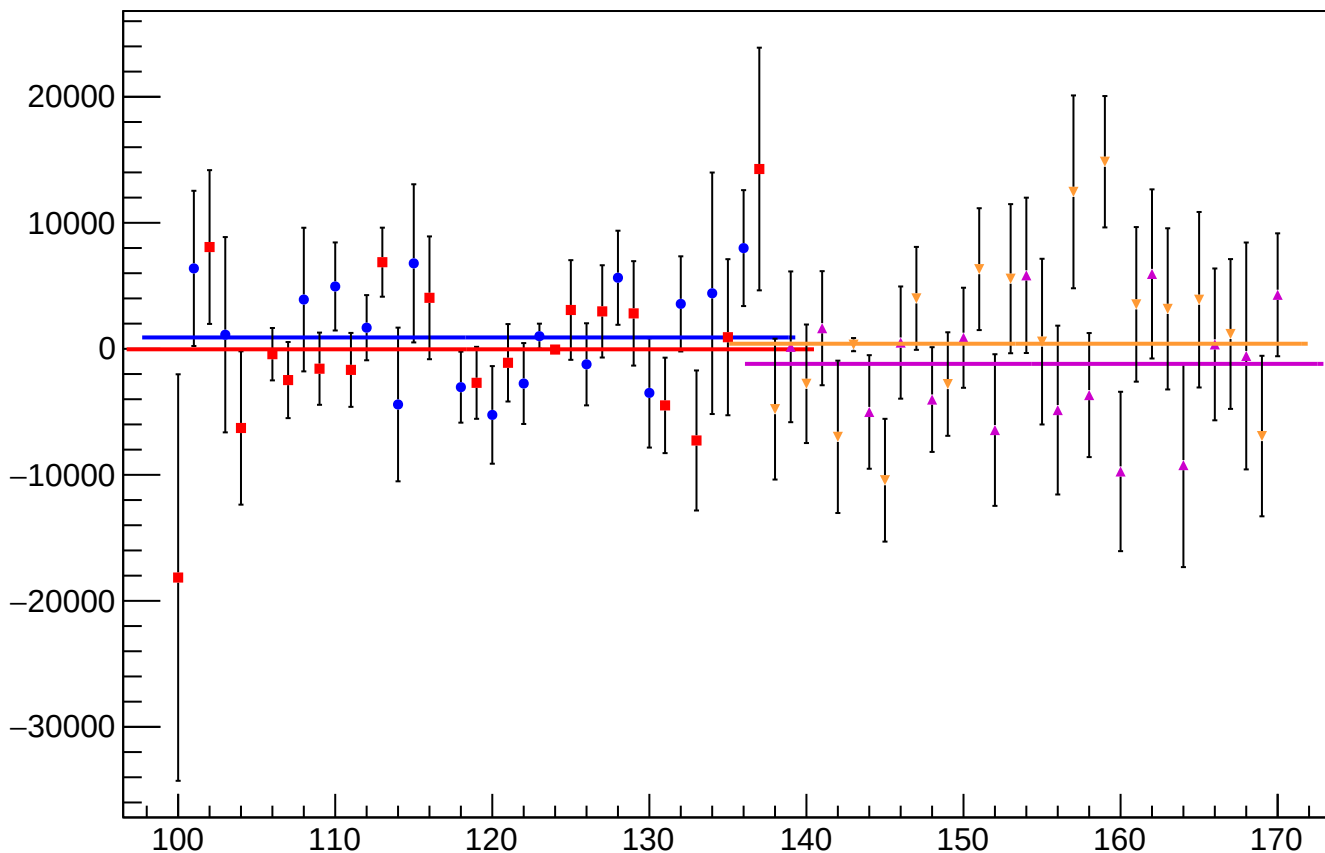
Right: 1701.898+/-0.330 χ^2/NDF : 595159.7/35

In: 1769.643+/-0.288 χ^2/NDF : 293302.3/32

Out: 1798.671+/-0.290 χ^2/NDF : 865762.3/35

All: 1784.068+/-0.204 χ^2/NDF : 1164112.6/68

asym_atl_dd_correction_mean vs Slug, Sign Corrected



Right In: 903.344+/-705.564 χ^2/NDF : 16.0/16

Left Out: 404.654+/-487.827 χ^2/NDF : 23.6/16

Right Out: -38.143+/-357.176 χ^2/NDF : 20.5/18

Left In: -1193.684+/-1336.735 χ^2/NDF : 9.9/15

Left: 216.805+/-458.264 χ^2/NDF : 34.8/32

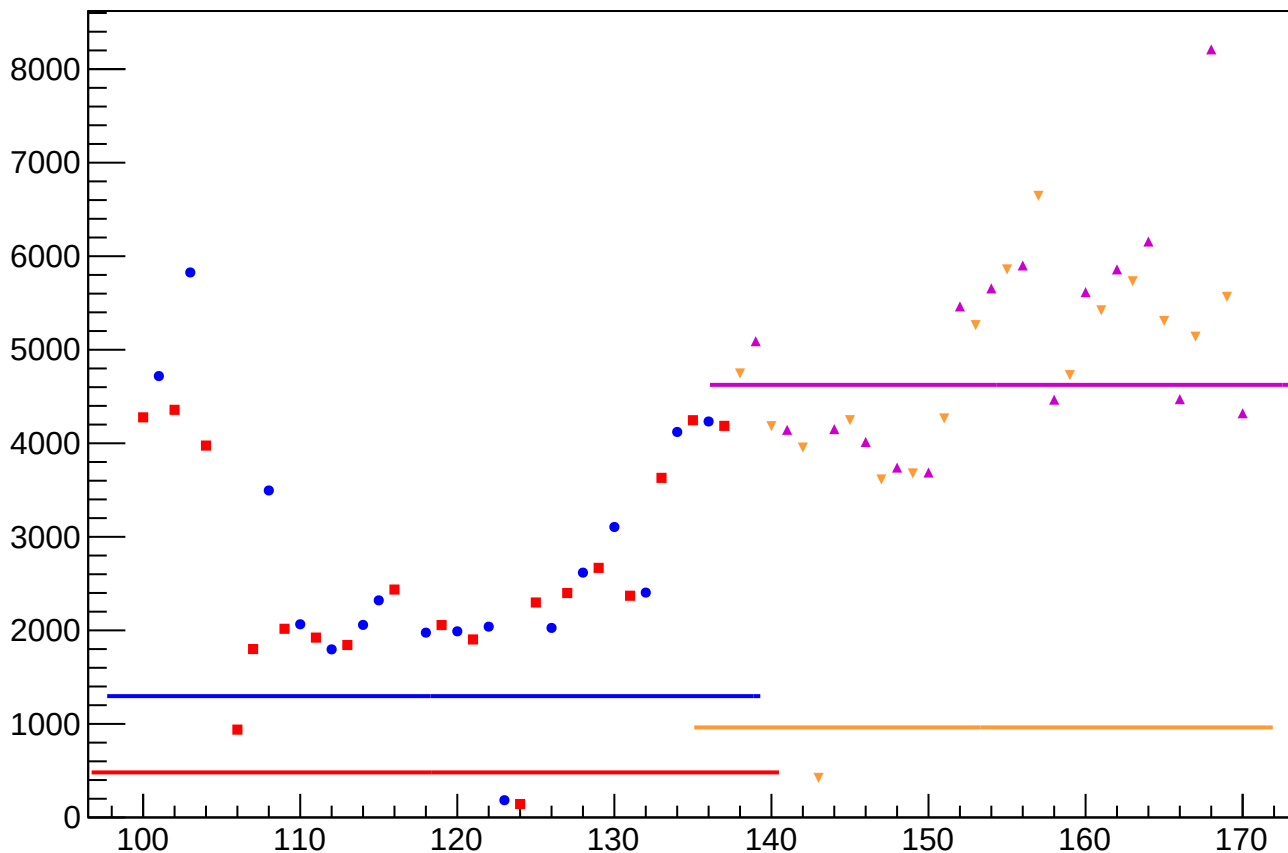
Right: 153.912+/-318.670 χ^2/NDF : 37.9/35

In: 446.412+/-623.978 χ^2/NDF : 27.9/32

Out: 116.391+/-288.187 χ^2/NDF : 44.7/35

All: 174.412+/-261.631 χ^2/NDF : 72.7/68

asym_atl_dd_correction_rms vs Slug, Sign Corrected



Right In: 1297.005+/-0.499 χ^2/NDF : 6509608.5/16

Left Out: 962.538+/-0.345 χ^2/NDF : 17328253.9/16

Right Out: 481.577+/-0.253 χ^2/NDF : 10144170.1/18

Left In: 4624.685+/-0.945 χ^2/NDF : 980650.8/15

Left: 1392.942+/-0.324 χ^2/NDF : 31555726.4/32

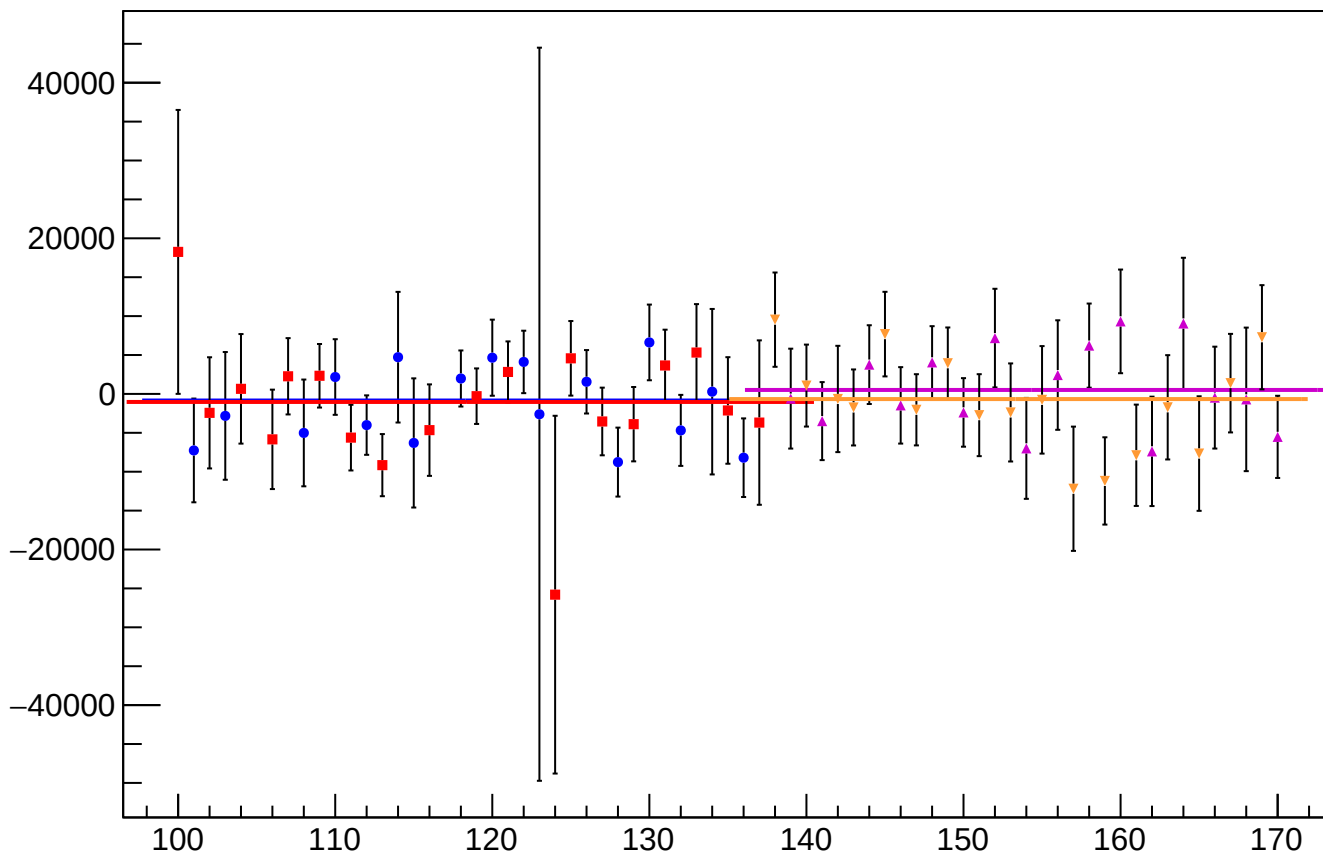
Right: 647.917+/-0.225 χ^2/NDF : 18780181.6/35

In: 2022.089+/-0.441 χ^2/NDF : 17183911.6/32

Out: 649.430+/-0.204 χ^2/NDF : 28738042.3/35

All: 890.755+/-0.185 χ^2/NDF : 53899064.9/68

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -849.372 ± 1261.026 $\chi^2/\text{NDF}: 15.4/16$

Left Out: -663.460 ± 1419.022 $\chi^2/\text{NDF}: 16.0/16$

Right Out: -1033.205 ± 1190.714 $\chi^2/\text{NDF}: 15.0/18$

Left In: 508.690 ± 1454.042 $\chi^2/\text{NDF}: 11.3/15$

Left: -91.670 ± 1015.555 $\chi^2/\text{NDF}: 27.5/32$

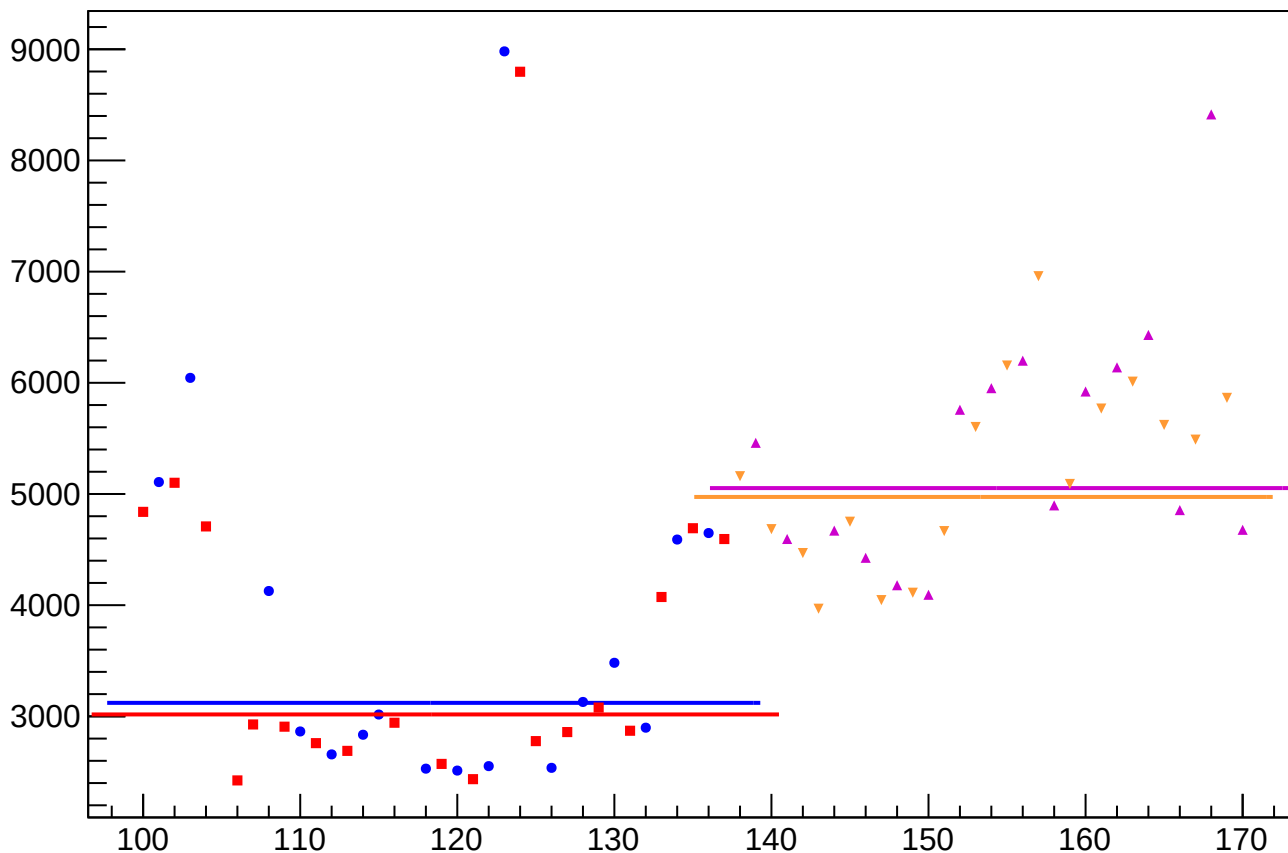
Right: -946.556 ± 865.752 $\chi^2/\text{NDF}: 30.4/35$

In: -266.401 ± 952.666 $\chi^2/\text{NDF}: 27.2/32$

Out: -880.433 ± 912.135 $\chi^2/\text{NDF}: 31.0/35$

All: -586.756 ± 658.840 $\chi^2/\text{NDF}: 58.4/68$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3121.417+/-0.892 χ^2/NDF : 945708.1/16

Left Out: 4973.380+/-1.003 χ^2/NDF : 610921.9/16

Right Out: 3017.215+/-0.831 χ^2/NDF : 791997.9/18

Left In: 5053.077+/-1.028 χ^2/NDF : 764212.5/15

Left: 5012.258+/-0.718 χ^2/NDF : 1378211.9/32

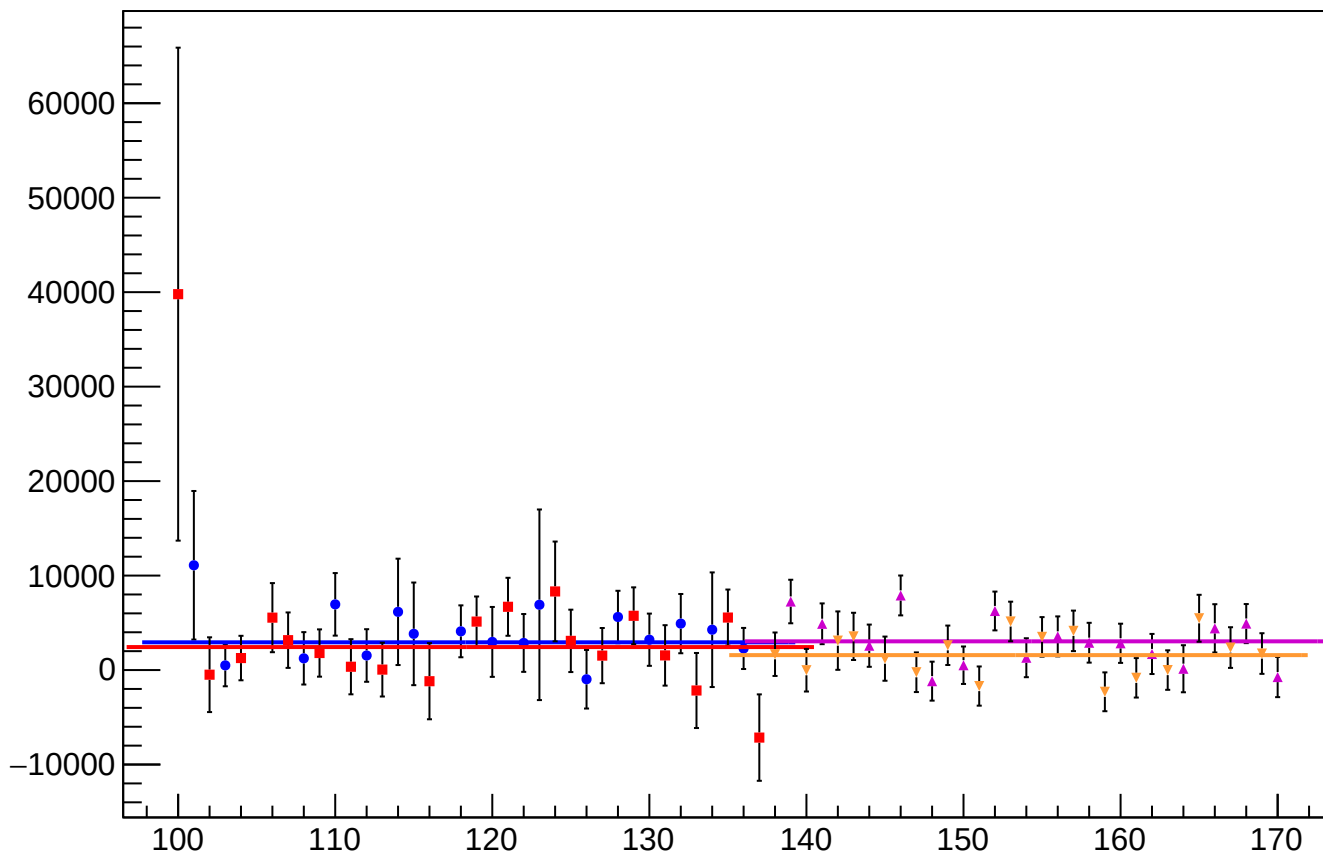
Right: 3065.680+/-0.608 χ^2/NDF : 1745010.6/35

In: 3950.610+/-0.674 χ^2/NDF : 3724446.2/32

Out: 3813.612+/-0.640 χ^2/NDF : 3656269.4/35

All: 3878.630+/-0.464 χ^2/NDF : 7402446.4/68

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 2935.827+/-775.365 χ^2/NDF : 8.2/16

Left Out: 1580.652+/-535.700 χ^2/NDF : 18.1/16

Right Out: 2432.756+/-740.416 χ^2/NDF : 18.2/18

Left In: 3039.248+/-537.456 χ^2/NDF : 24.5/15

Left: 2307.563+/-379.417 χ^2/NDF : 46.3/32

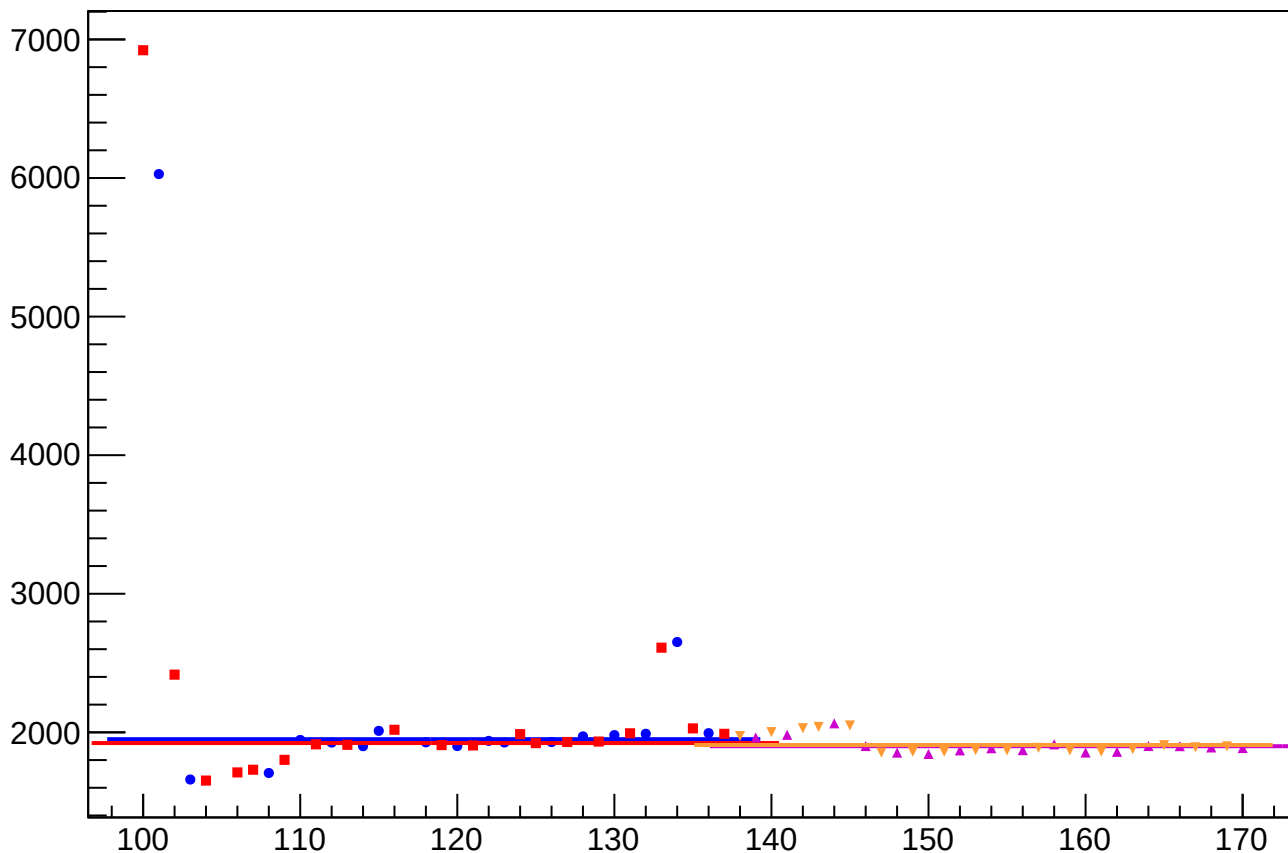
Right: 2672.699+/-535.482 χ^2/NDF : 26.5/35

In: 3005.683+/-441.715 χ^2/NDF : 32.7/32

Out: 1873.438+/-434.015 χ^2/NDF : 37.2/35

All: 2429.606+/-309.581 χ^2/NDF : 73.2/68

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1950.615+/-0.548 χ^2/NDF : 617332.2/16

Left Out: 1908.605+/-0.379 χ^2/NDF : 28158.8/16

Right Out: 1922.752+/-0.522 χ^2/NDF : 217400.0/18

Left In: 1899.939+/-0.380 χ^2/NDF : 20670.6/15

Left: 1904.286+/-0.268 χ^2/NDF : 49090.2/32

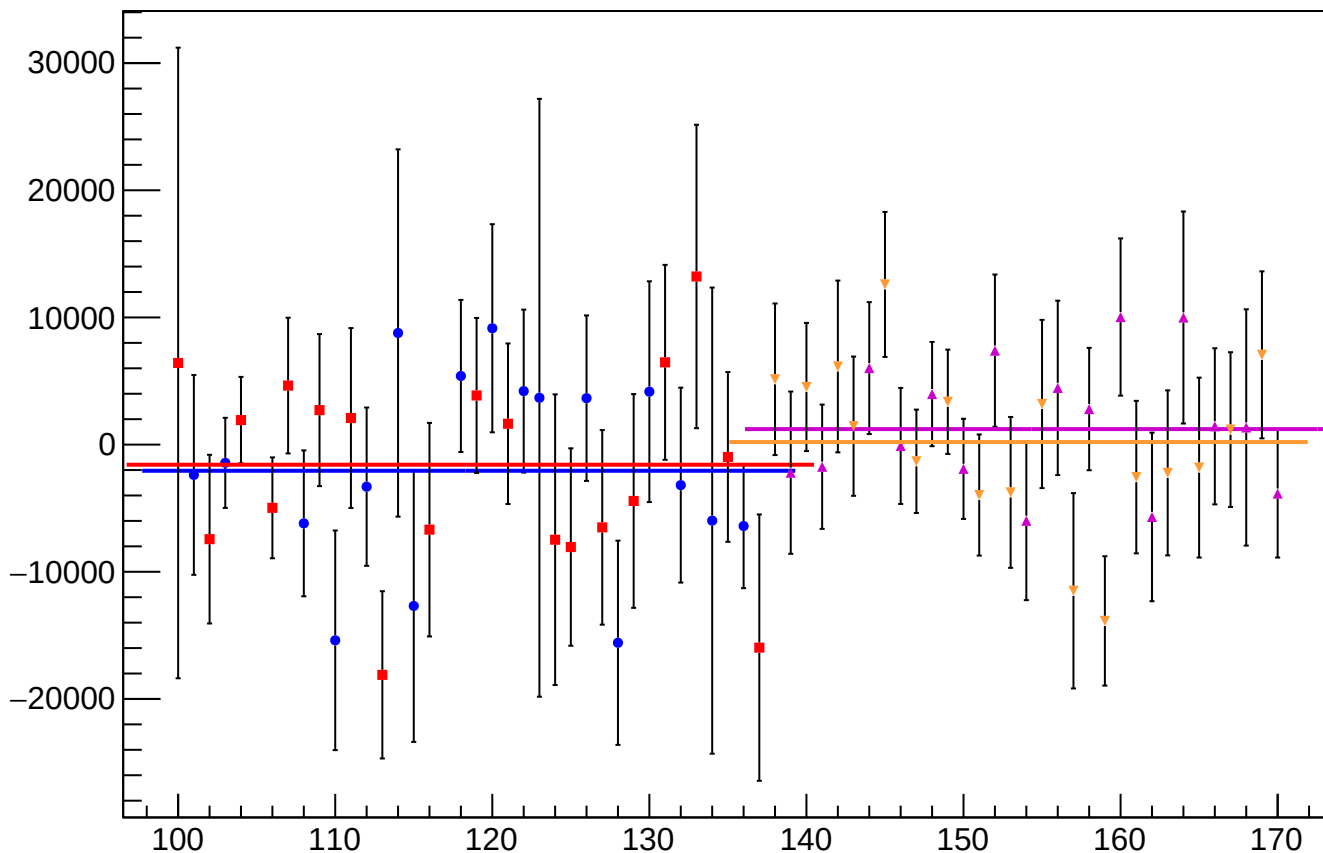
Right: 1936.009+/-0.378 χ^2/NDF : 836086.0/35

In: 1916.385+/-0.312 χ^2/NDF : 643773.4/32

Out: 1913.481+/-0.307 χ^2/NDF : 246039.5/35

All: 1914.906+/-0.219 χ^2/NDF : 889856.9/68

asym_atr_avg_correction_mean vs Slug, Sign Corrected



Right In: -2056.876+/-1661.079 χ^2/NDF : 14.0/16

Left Out: 202.884+/-1352.884 χ^2/NDF : 20.6/16

Right Out: -1580.717+/-1477.405 χ^2/NDF : 18.6/18

Left In: 1220.230+/-1367.729 χ^2/NDF : 10.6/15

Left: 706.006+/-961.839 χ^2/NDF : 31.6/32

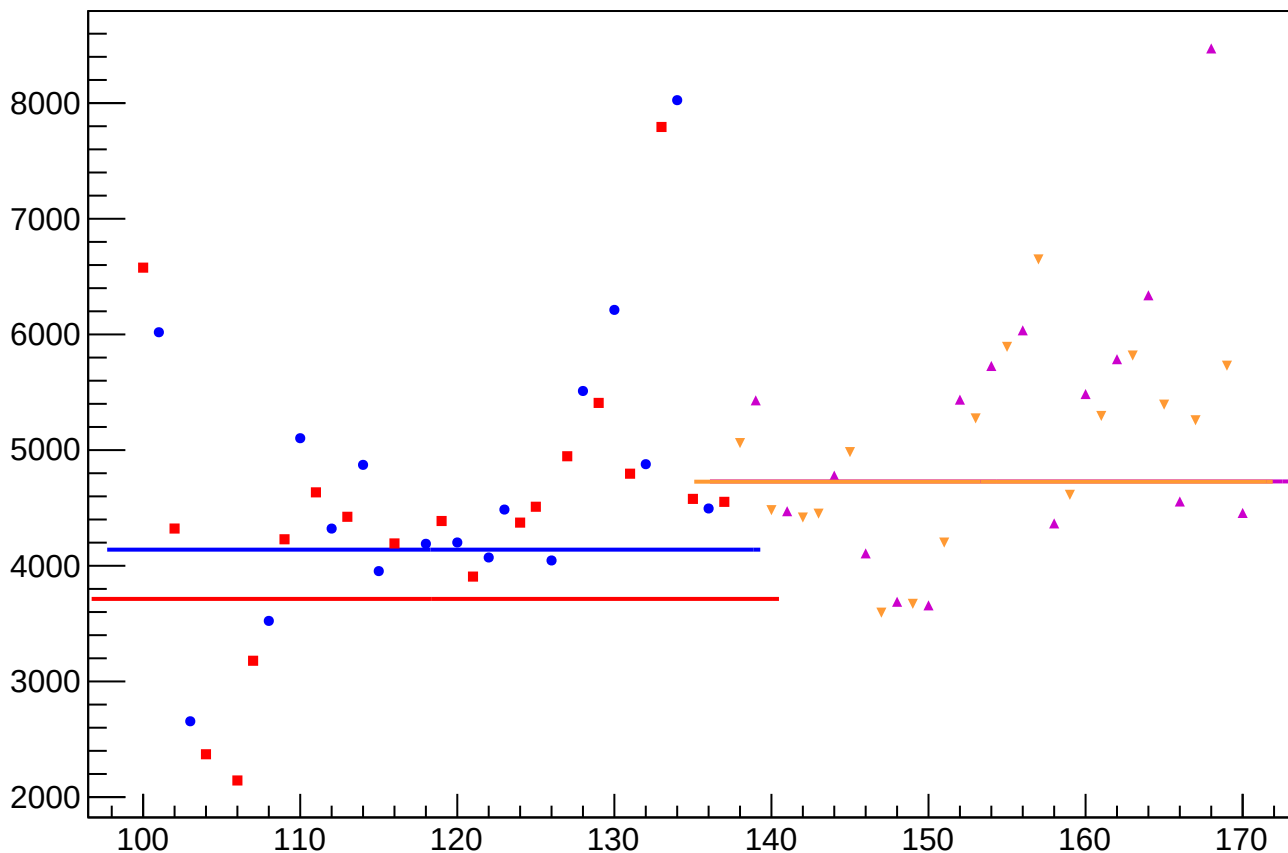
Right: -1791.026+/-1103.932 χ^2/NDF : 32.6/35

In: -103.875+/-1055.859 χ^2/NDF : 26.9/32

Out: -610.597+/-997.756 χ^2/NDF : 40.0/35

All: -371.561+/-725.191 χ^2/NDF : 67.1/68

asym_atr_avg_correction_rms vs Slug, Sign Corrected



Right In: 4139.394+/-1.175 χ^2/NDF : 813550.8/16

Left Out: 4726.992+/-0.957 χ^2/NDF : 696120.1/16

Right Out: 3713.526+/-1.045 χ^2/NDF : 1275828.5/18

Left In: 4729.091+/-0.967 χ^2/NDF : 994154.1/15

Left: 4728.030+/-0.680 χ^2/NDF : 1690276.6/32

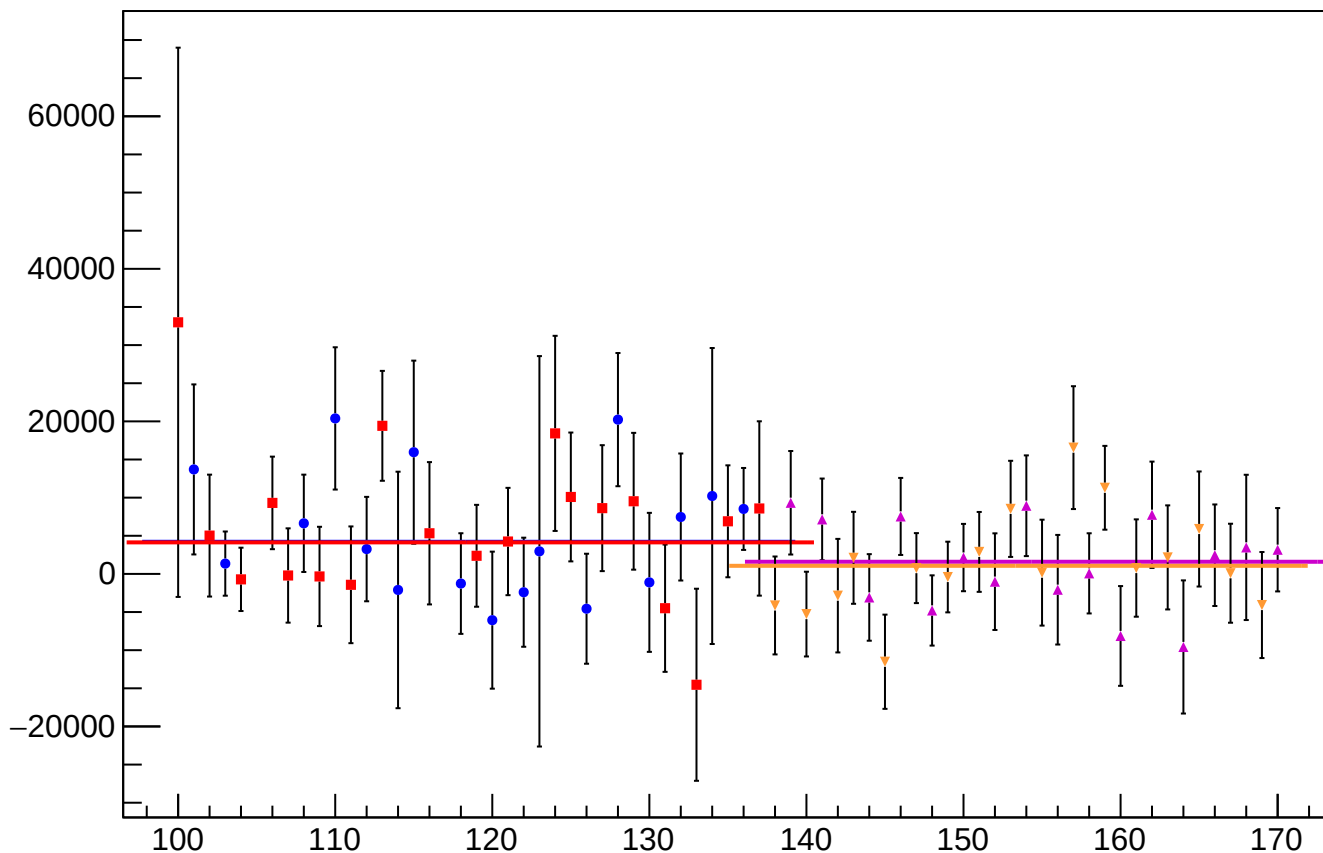
Right: 3901.622+/-0.781 χ^2/NDF : 2162777.5/35

In: 4490.826+/-0.747 χ^2/NDF : 1957922.0/32

Out: 4264.761+/-0.706 χ^2/NDF : 2483839.1/35

All: 4371.402+/-0.513 χ^2/NDF : 4490193.9/68

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 4211.844+/-1871.304 χ^2/NDF : 14.4/16

Left Out: 1061.935+/-1472.036 χ^2/NDF : 16.2/16

Right Out: 4133.660+/-1725.341 χ^2/NDF : 14.8/18

Left In: 1592.694+/-1485.873 χ^2/NDF : 12.9/15

Left: 1324.832+/-1045.744 χ^2/NDF : 29.2/32

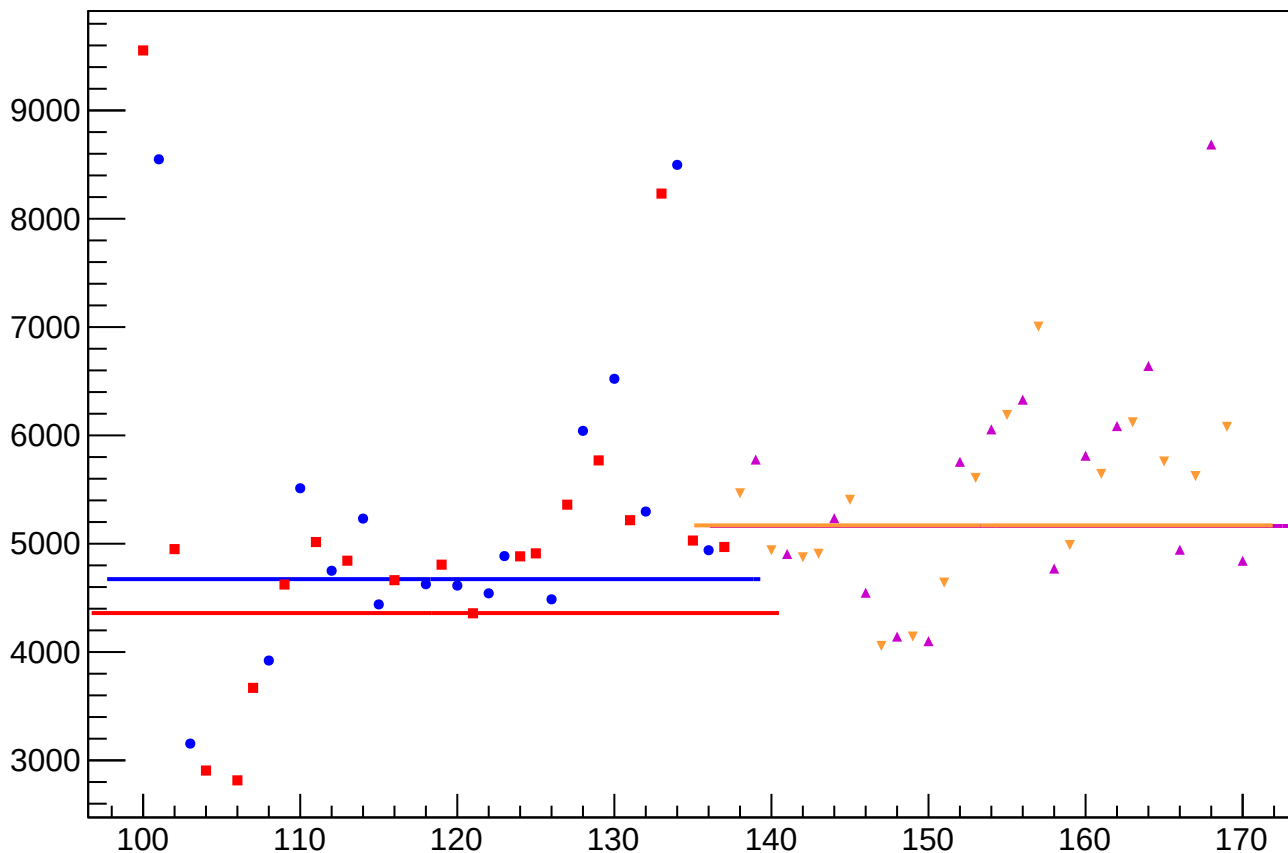
Right: 4169.584+/-1268.468 χ^2/NDF : 29.2/35

In: 2605.481+/-1163.652 χ^2/NDF : 28.5/32

Out: 2355.965+/-1119.840 χ^2/NDF : 32.9/35

All: 2475.937+/-806.891 χ^2/NDF : 61.4/68

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 4673.046 $\pm$ 1.323 χ^2/NDF : 777321.1/16

Left Out: 5169.200 $\pm$ 1.041 χ^2/NDF : 518728.3/16

Right Out: 4359.833 $\pm$ 1.213 χ^2/NDF : 832191.0/18

Left In: 5163.651 $\pm$ 1.051 χ^2/NDF : 777913.6/15

Left: 5166.451 $\pm$ 0.739 χ^2/NDF : 1296655.9/32

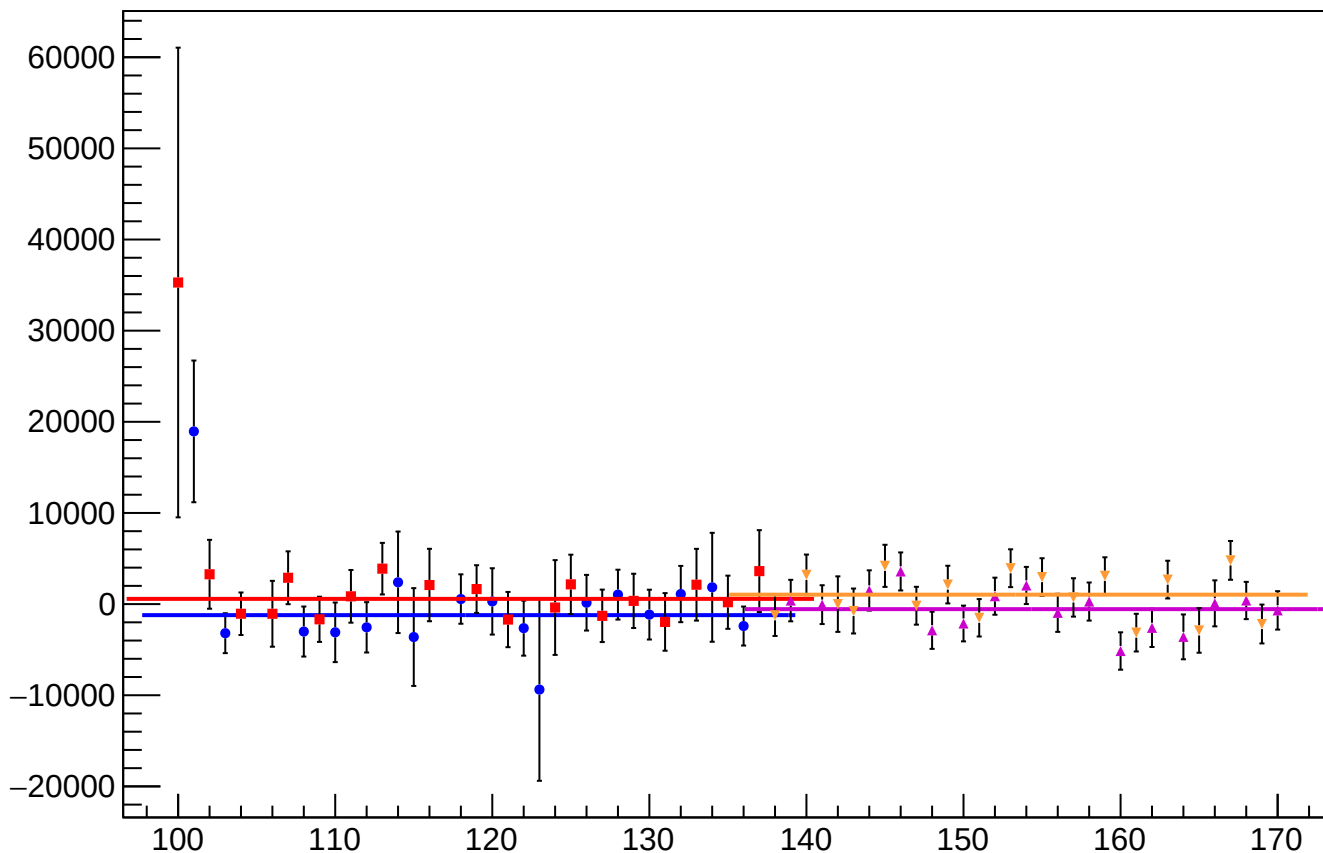
Right: 4502.849 $\pm$ 0.894 χ^2/NDF : 1639958.3/35

In: 4973.941 $\pm$ 0.823 χ^2/NDF : 1639546.7/32

Out: 4825.949 $\pm$ 0.790 χ^2/NDF : 1607338.2/35

All: 4896.926 $\pm$ 0.570 χ^2/NDF : 3263719.3/68

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1211.176+/-765.294 χ^2/NDF : 12.7/16

Left Out: 1034.480+/-529.519 χ^2/NDF : 23.2/16

Right Out: 573.457+/-730.668 χ^2/NDF : 8.7/18

Left In: -554.088+/-531.521 χ^2/NDF : 17.0/15

Left: 243.194+/-375.132 χ^2/NDF : 44.7/32

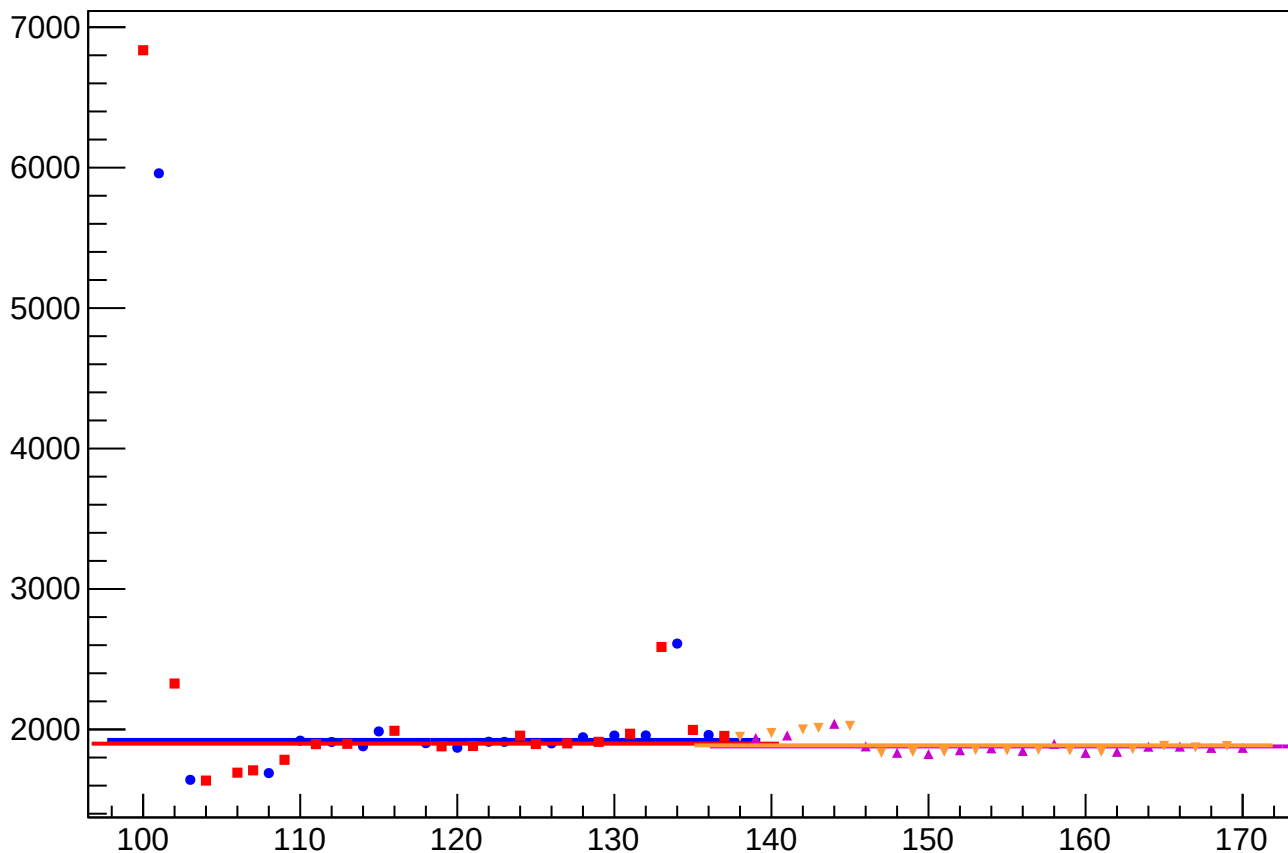
Right: -277.573+/-528.478 χ^2/NDF : 24.2/35

In: -767.908+/-436.558 χ^2/NDF : 30.2/32

Out: 875.728+/-428.764 χ^2/NDF : 32.1/35

All: 68.712+/-305.900 χ^2/NDF : 69.5/68

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1925.320+/-0.541 χ^2/NDF : 615863.6/16

Left Out: 1886.667+/-0.374 χ^2/NDF : 26591.8/16

Right Out: 1898.854+/-0.515 χ^2/NDF : 210875.1/18

Left In: 1878.985+/-0.376 χ^2/NDF : 20087.1/15

Left: 1882.840+/-0.265 χ^2/NDF : 46888.6/32

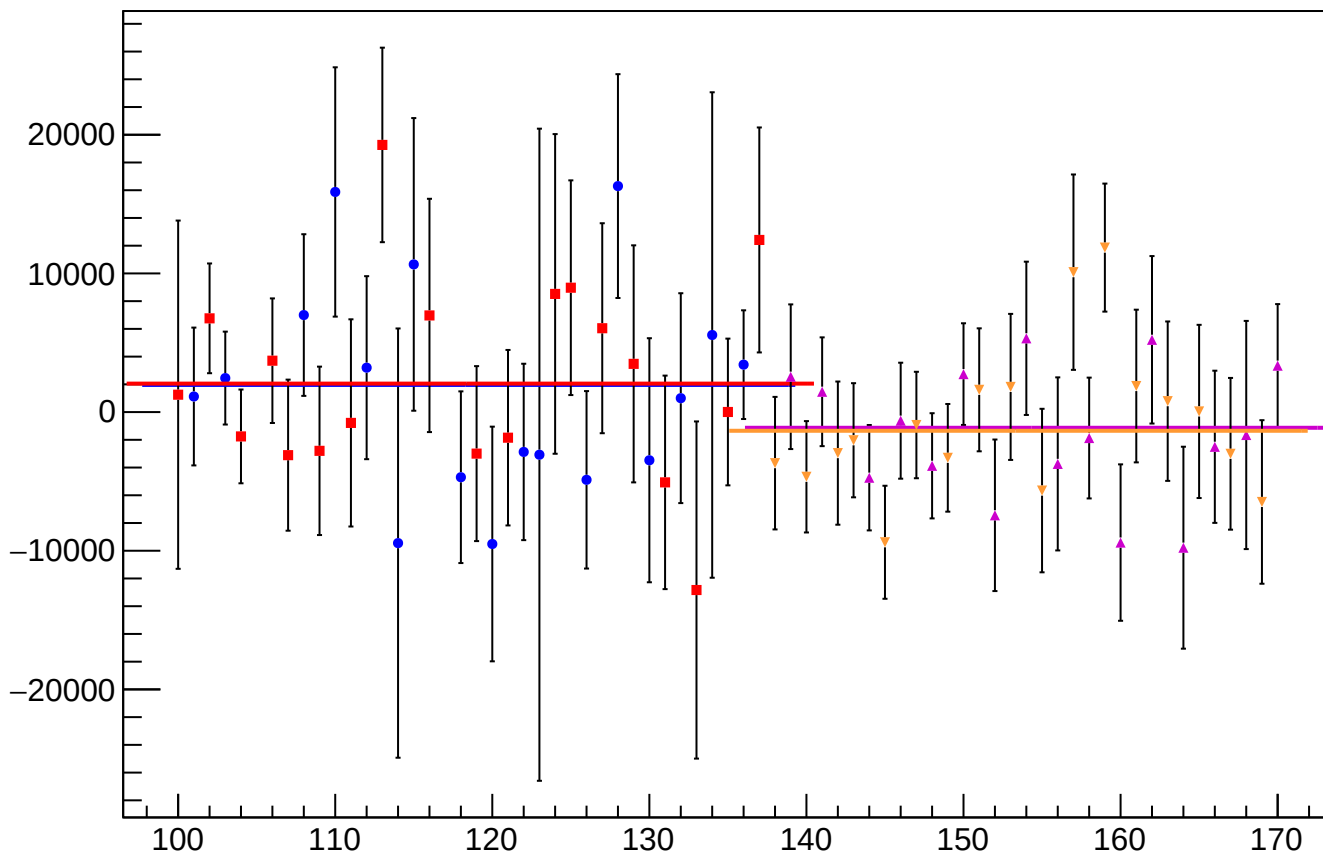
Right: 1911.445+/-0.373 χ^2/NDF : 827992.7/35

In: 1894.063+/-0.309 χ^2/NDF : 640896.6/32

Out: 1890.876+/-0.303 χ^2/NDF : 237832.7/35

All: 1892.439+/-0.216 χ^2/NDF : 878783.6/68

asym_atr_dd_correction_mean vs Slug, Sign Corrected



Right In: 1959.060 $\pm$ 1556.840 χ^2 /NDF: 12.9/16

Left Out: -1347.976 $\pm$ 1169.995 χ^2 /NDF:18.7/16

Right Out: 2052.842 $\pm$ 1413.641 χ^2 /NDF: 17.4/18

Left In: -1132.297 $\pm$ 1201.220 χ^2 /NDF:12.1/15

Left: -1242.976 $\pm$ 838.133 χ^2 /NDF: 30.9/32

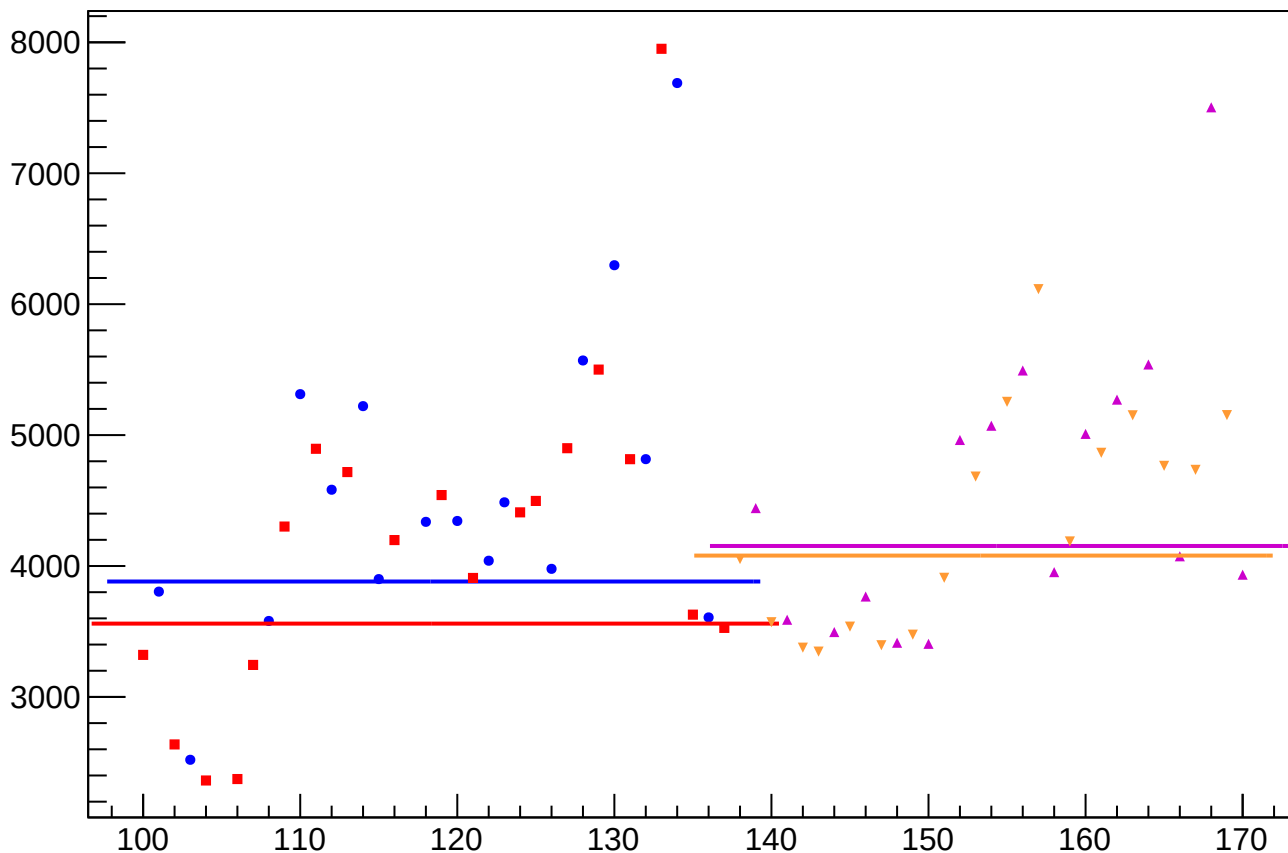
Right: 2010.461 $\pm$ 1046.568 χ^2 /NDF: 30.4/35

In: 21.305 $\pm$ 951.037 χ^2 /NDF:27.6/32

Out: 34.551 $\pm$ 901.331 χ^2 /NDF:39.6/35

All: 28.283 $\pm$ 654.204 χ^2 /NDF: 67.2/68

asym_atr_dd_correction_rms vs Slug, Sign Corrected



Right In: 3881.577 $\pm$ 1.101 χ^2 /NDF: 817466.6/16

Left Out: 4079.664 $\pm$ 0.827 χ^2 /NDF: 785935.5/16

Right Out: 3560.054 $\pm$ 1.000 χ^2 /NDF: 1241523.0/18

Left In: 4153.052 $\pm$ 0.849 χ^2 /NDF: 1002955.5/15

Left: 4115.392 $\pm$ 0.593 χ^2 /NDF: 1792721.9/32

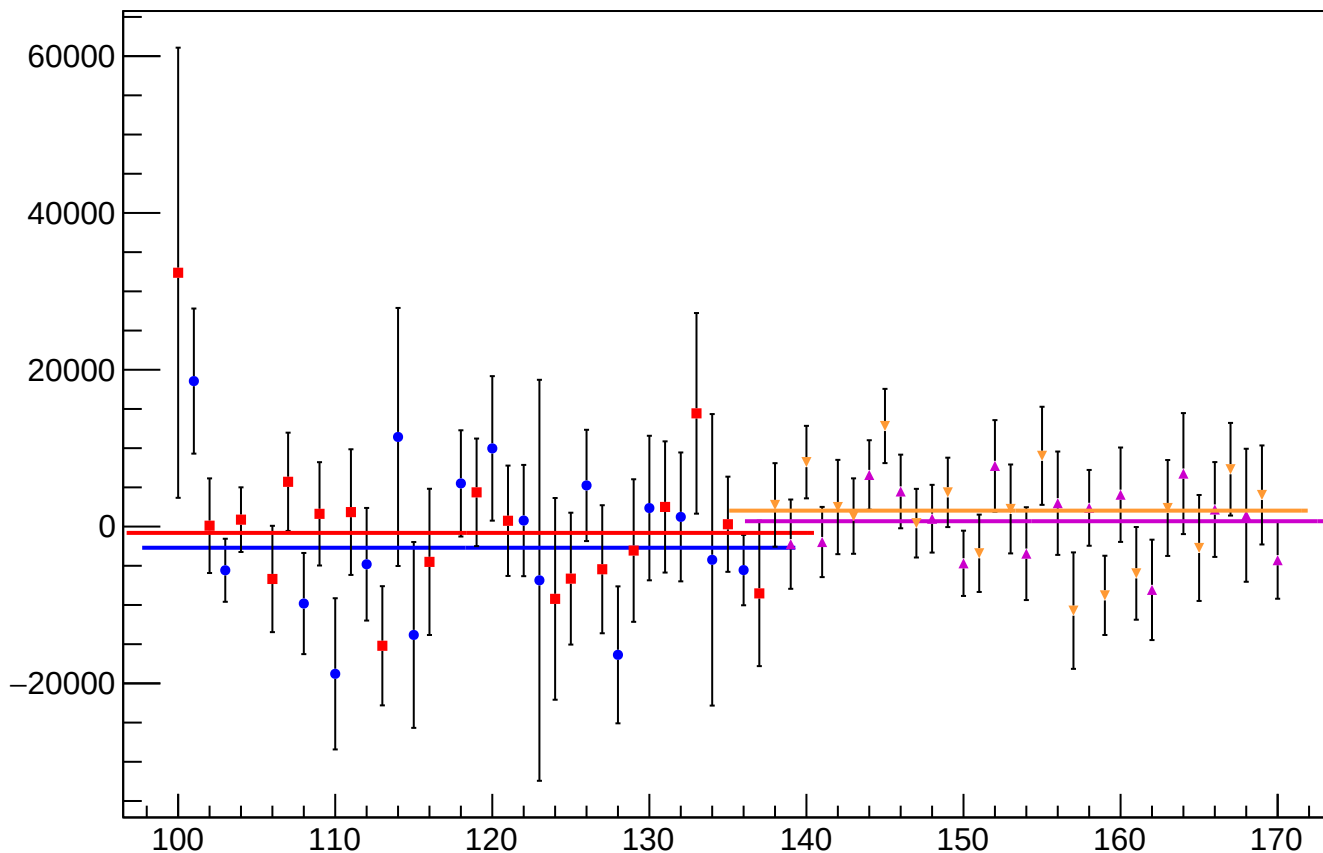
Right: 3705.352 $\pm$ 0.740 χ^2 /NDF: 2105744.2/35

In: 4051.746 $\pm$ 0.672 χ^2 /NDF: 1858542.0/32

Out: 3868.428 $\pm$ 0.637 χ^2 /NDF: 2187822.8/35

All: 3955.171 $\pm$ 0.463 χ^2 /NDF: 4085512.2/68

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -2700.702 $\pm$ 1809.055 χ^2/NDF : 19.8/16

Left Out: 2032.495 $\pm$ 1305.584 χ^2/NDF : 20.7/16

Right Out: -805.951 $\pm$ 1690.353 χ^2/NDF : 11.6/18

Left In: 682.957 $\pm$ 1332.284 χ^2/NDF : 10.8/15

Left: 1371.384 $\pm$ 932.484 χ^2/NDF : 32.0/32

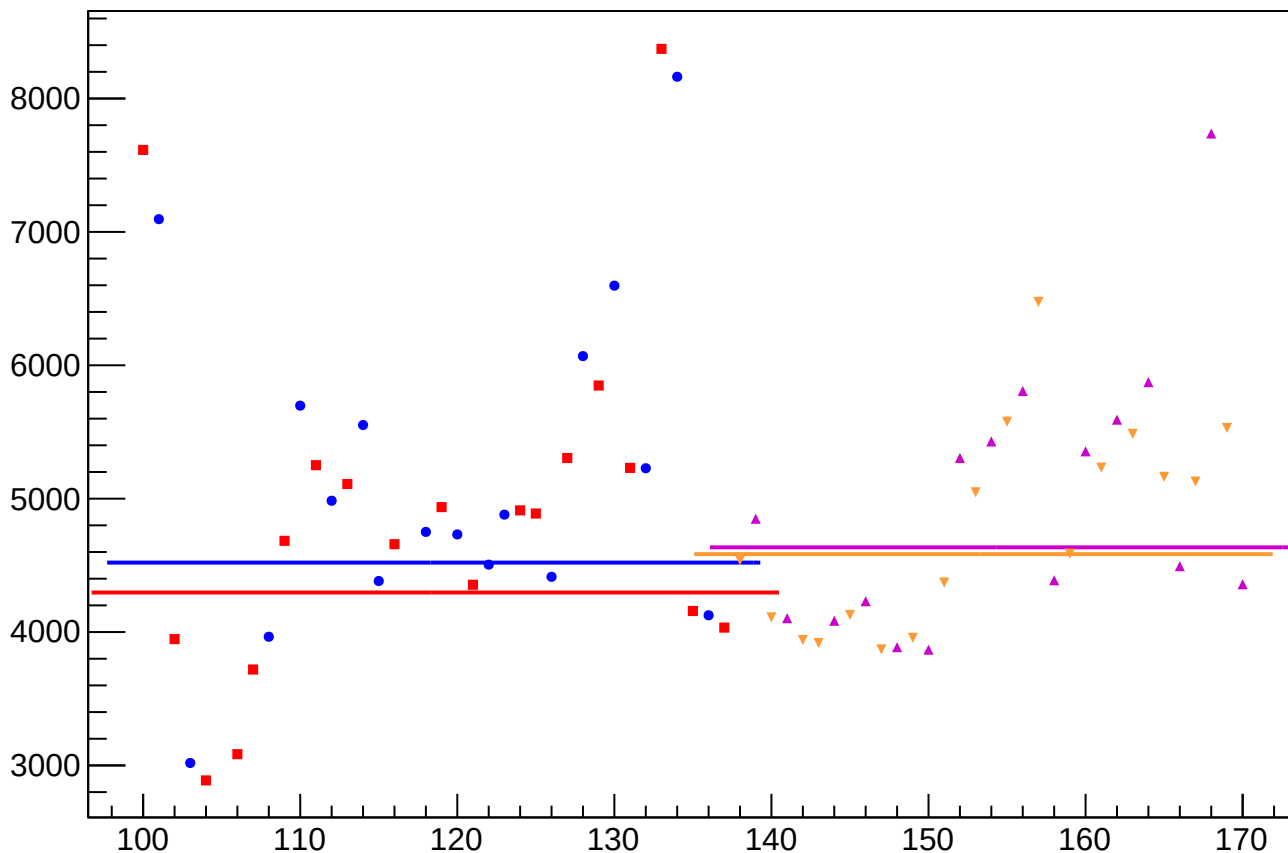
Right: -1689.130 $\pm$ 1235.094 χ^2/NDF : 31.9/35

In: -506.887 $\pm$ 1072.763 χ^2/NDF : 32.8/32

Out: 971.899 $\pm$ 1033.266 χ^2/NDF : 34.0/35

All: 260.229 $\pm$ 744.201 χ^2/NDF : 67.8/68

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4520.685+/-1.279 χ^2/NDF : 770887.4/16

Left Out: 4584.246+/-0.923 χ^2/NDF : 535665.1/16

Right Out: 4296.527+/-1.189 χ^2/NDF : 771785.2/18

Left In: 4635.047+/-0.942 χ^2/NDF : 735249.0/15

Left: 4609.132+/-0.659 χ^2/NDF : 1272397.4/32

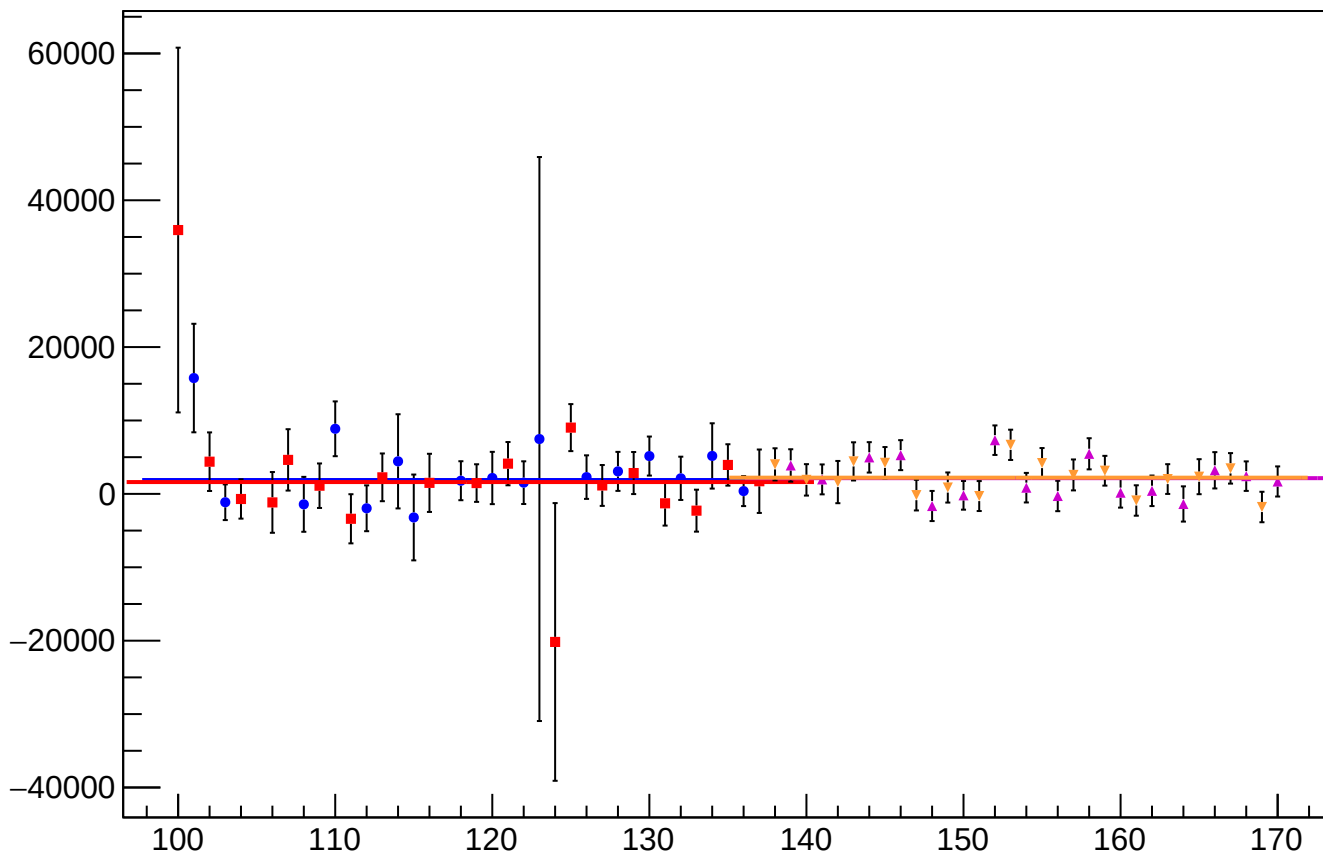
Right: 4400.391+/-0.871 χ^2/NDF : 1559151.4/35

In: 4594.832+/-0.759 χ^2/NDF : 1511318.5/32

Out: 4475.989+/-0.729 χ^2/NDF : 1343997.0/35

All: 4533.059+/-0.526 χ^2/NDF : 2868073.9/68

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 1887.915+/-783.827 χ^2/NDF : 14.7/16

Left Out: 2208.279+/-521.493 χ^2/NDF : 17.8/16

Right Out: 1610.310+/-765.843 χ^2/NDF : 17.5/18

Left In: 2141.664+/-522.671 χ^2/NDF : 24.6/15

Left: 2175.047+/-369.167 χ^2/NDF : 42.4/32

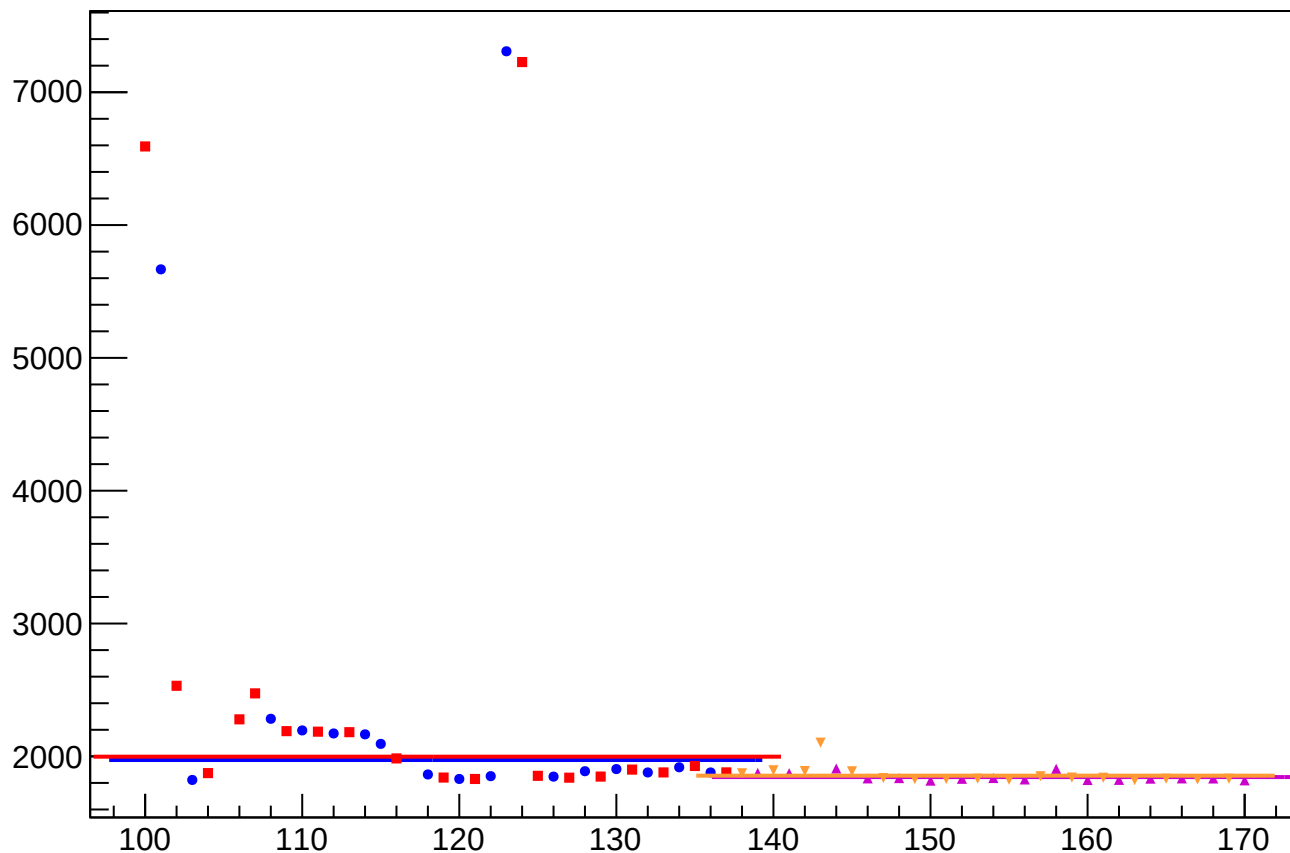
Right: 1745.891+/-547.780 χ^2/NDF : 32.2/35

In: 2063.563+/-434.858 χ^2/NDF : 39.3/32

Out: 2018.848+/-431.048 χ^2/NDF : 35.7/35

All: 2041.009+/-306.135 χ^2/NDF : 75.1/68

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1972.484+/-0.554 χ^2/NDF : 600869.6/16

Left Out: 1854.513+/-0.369 χ^2/NDF : 22876.6/16

Right Out: 1997.647+/-0.542 χ^2/NDF : 355572.5/18

Left In: 1844.037+/-0.370 χ^2/NDF : 6016.8/15

Left: 1849.287+/-0.261 χ^2/NDF : 29296.1/32

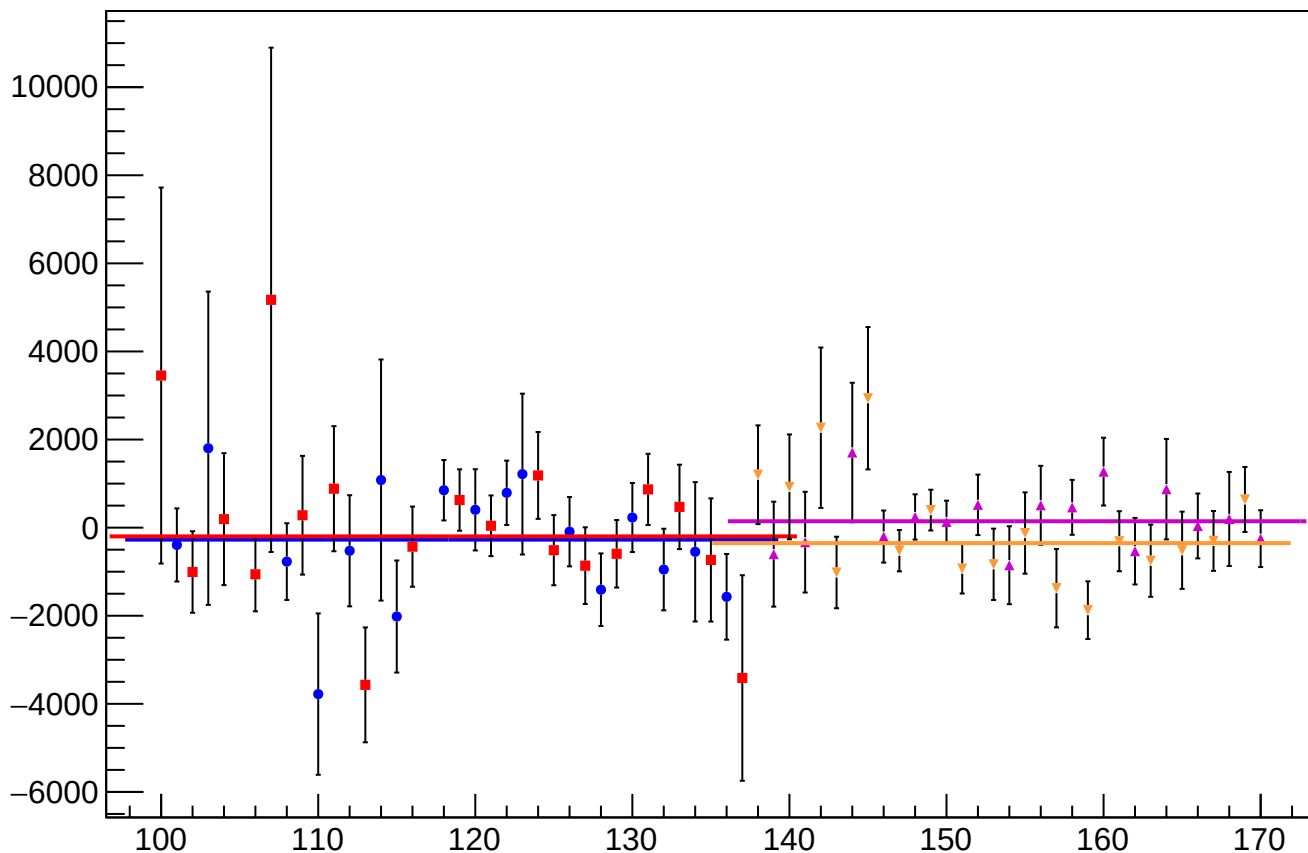
Right: 1985.358+/-0.387 χ^2/NDF : 957496.6/35

In: 1883.572+/-0.307 χ^2/NDF : 644063.5/32

Out: 1899.857+/-0.305 χ^2/NDF : 426179.0/35

All: 1891.786+/-0.216 χ^2/NDF : 1071657.3/68

asym_at1_avg_correction_mean vs Slug, Sign Corrected



Right In: -271.773 ± 240.214 χ^2/NDF : 17.2/16

Left Out: -351.341 ± 178.777 χ^2/NDF : 23.0/16

Right Out: -198.424 ± 229.035 χ^2/NDF : 19.7/18

Left In: 145.088 ± 184.467 χ^2/NDF : 7.7/15

Left: -110.901 ± 128.379 χ^2/NDF : 34.4/32

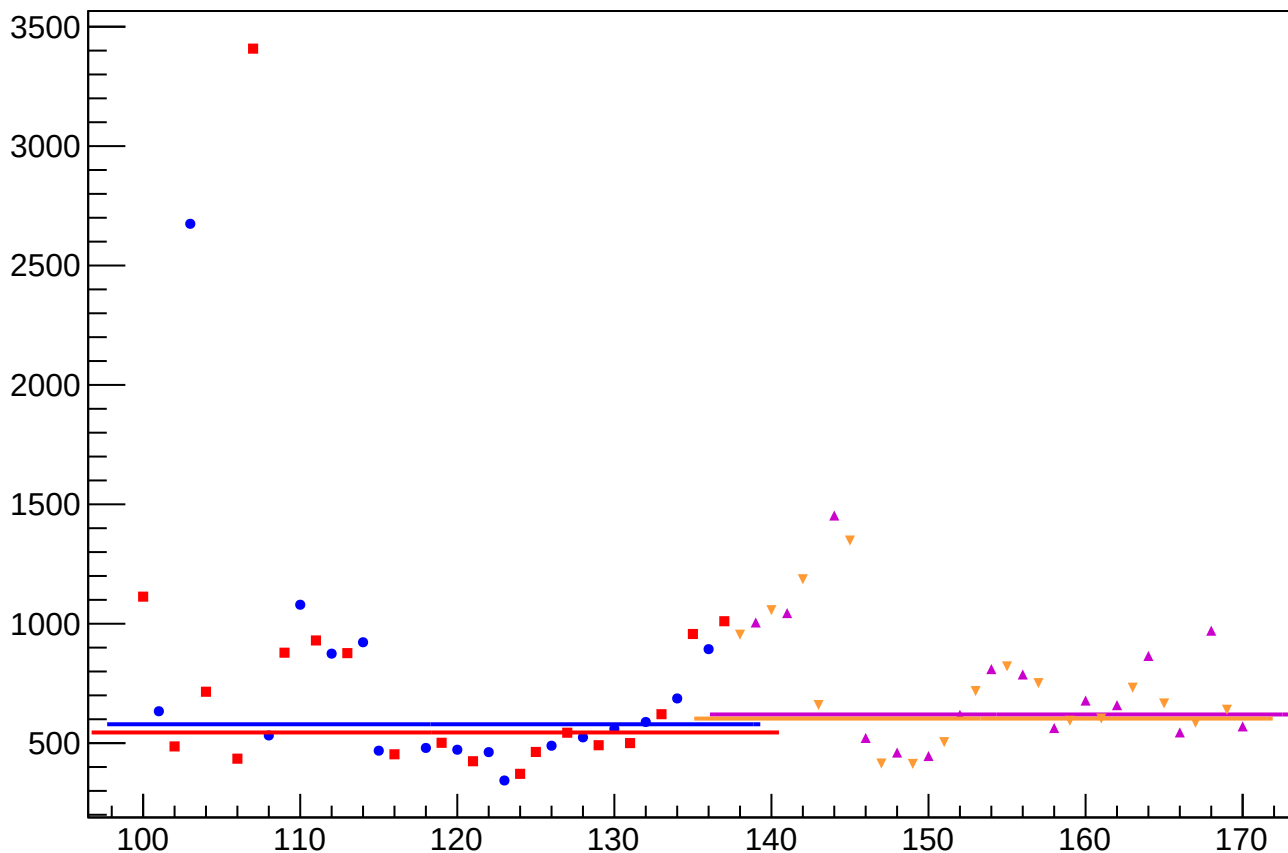
Right: -233.352 ± 165.764 χ^2/NDF : 37.0/35

In: -9.548 ± 146.305 χ^2/NDF : 26.8/32

Out: -293.446 ± 140.927 χ^2/NDF : 43.0/35

All: -156.810 ± 101.498 χ^2/NDF : 71.7/68

asym_at1_avg_correction_rms vs Slug, Sign Corrected



Right In: 579.010+/-0.170 χ^2/NDF : 1422148.6/16

Left Out: 602.835+/-0.126 χ^2/NDF : 2122800.8/16

Right Out: 544.674+/-0.162 χ^2/NDF : 1457799.9/18

Left In: 619.998+/-0.130 χ^2/NDF : 2084715.2/15

Left: 611.148+/-0.091 χ^2/NDF : 4216443.2/32

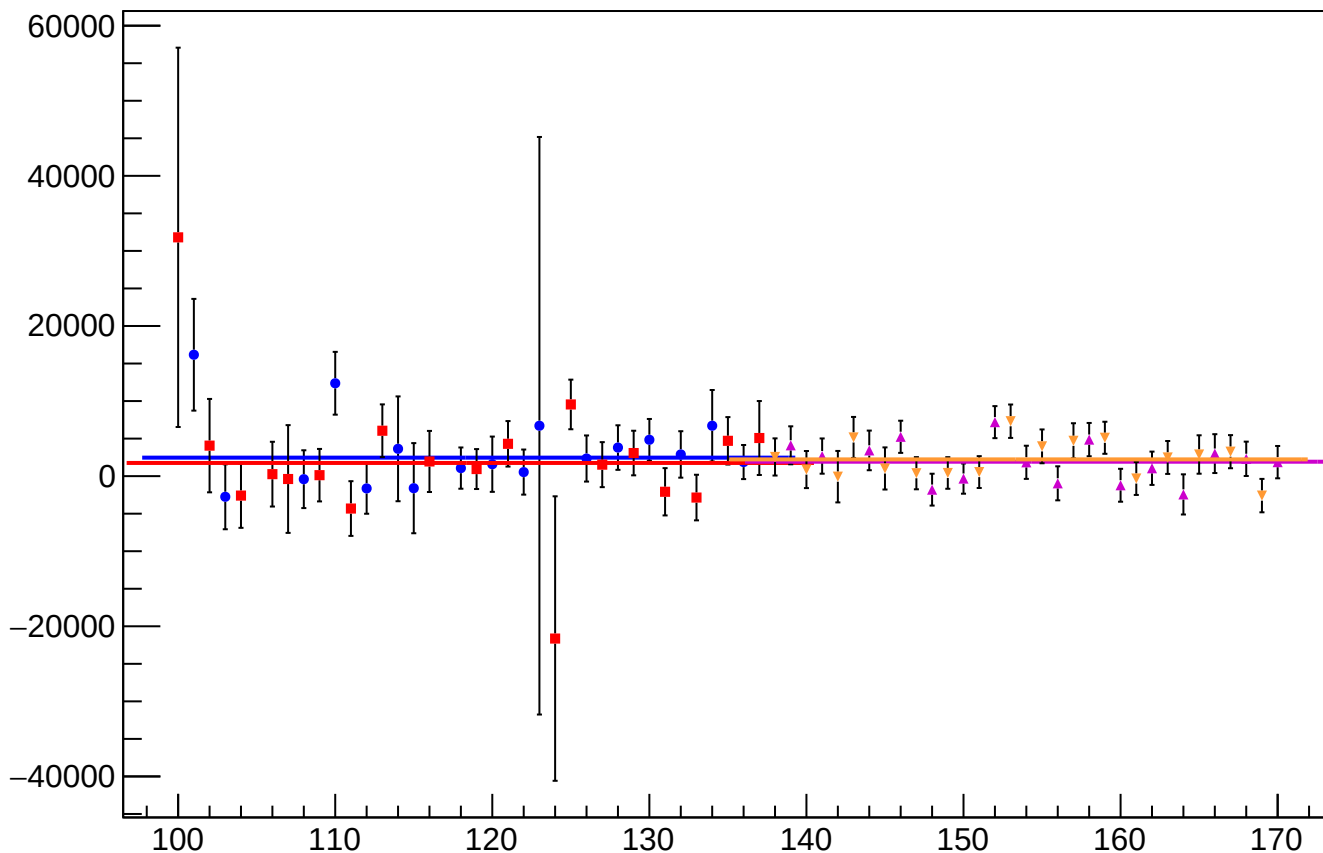
Right: 561.024+/-0.117 χ^2/NDF : 2901353.8/35

In: 604.793+/-0.103 χ^2/NDF : 3543491.8/32

Out: 580.815+/-0.100 χ^2/NDF : 3660743.4/35

All: 592.355+/-0.072 χ^2/NDF : 7232101.2/68

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2464.076+/-863.197 χ^2/NDF : 15.5/16

Left Out: 2231.242+/-566.355 χ^2/NDF : 19.3/16

Right Out: 1756.788+/-853.292 χ^2/NDF : 20.5/18

Left In: 1921.280+/-568.129 χ^2/NDF : 22.4/15

Left: 2076.746+/-401.099 χ^2/NDF : 41.9/32

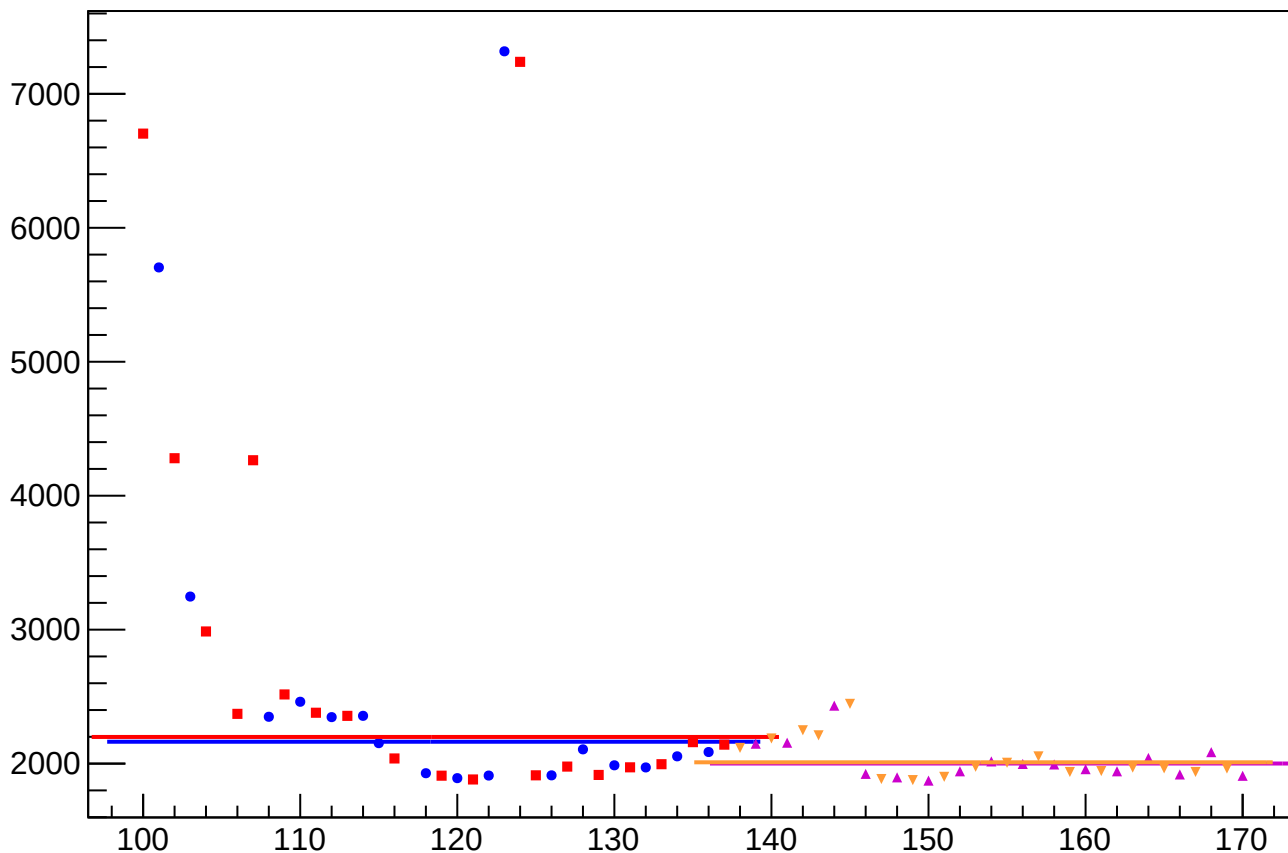
Right: 2106.351+/-606.840 χ^2/NDF : 36.4/35

In: 2085.342+/-474.565 χ^2/NDF : 38.2/32

Out: 2086.147+/-471.875 χ^2/NDF : 40.0/35

All: 2085.747+/-334.613 χ^2/NDF : 78.3/68

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2163.303 ± 0.610 $\chi^2/\text{NDF}: 709584.4/16$

Left Out: 2009.746 ± 0.400 $\chi^2/\text{NDF}: 112676.7/16$

Right Out: 2199.003 ± 0.603 $\chi^2/\text{NDF}: 803297.2/18$

Left In: 2000.712 ± 0.402 $\chi^2/\text{NDF}: 97094.6/15$

Left: 2005.243 ± 0.284 $\chi^2/\text{NDF}: 210025.0/32$

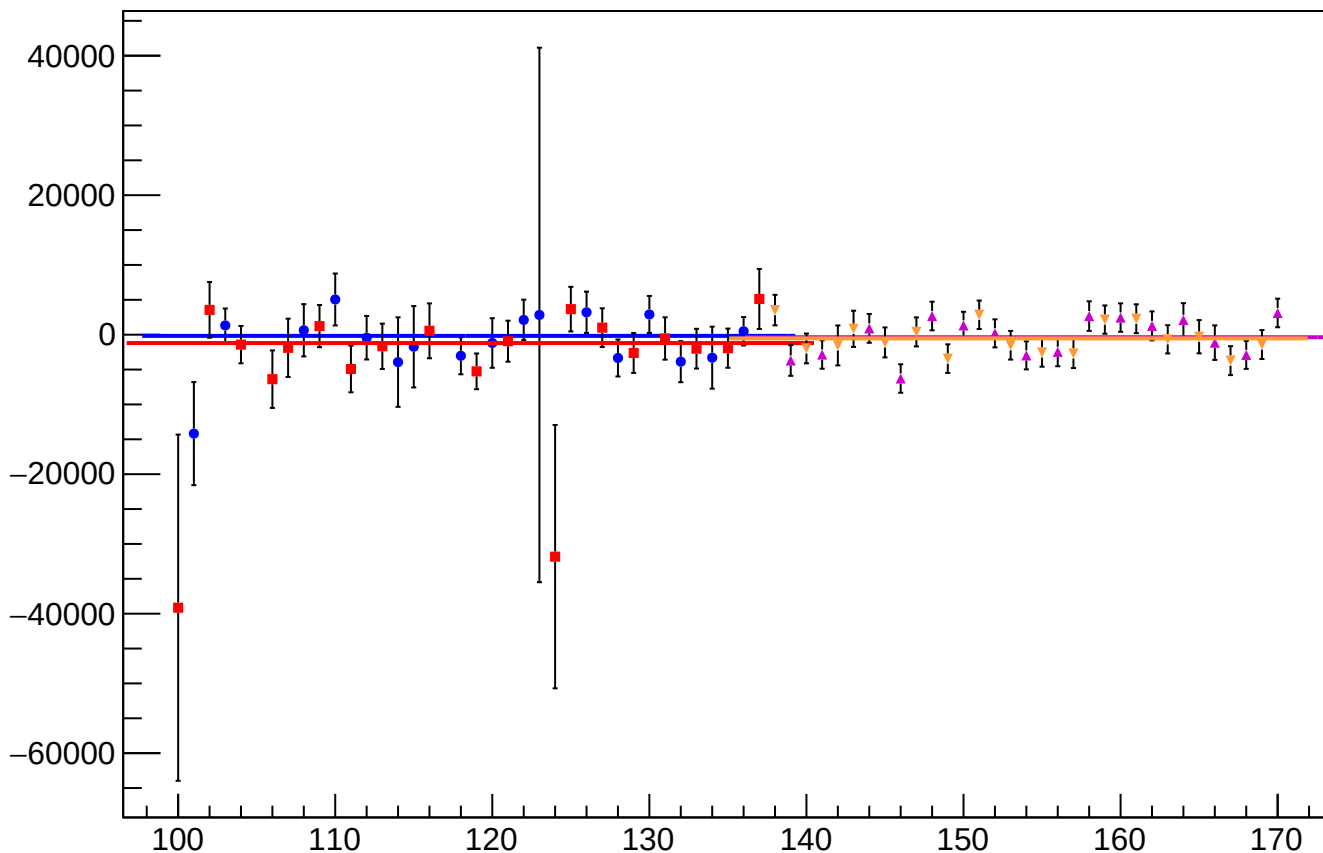
Right: 2181.359 ± 0.429 $\chi^2/\text{NDF}: 1514611.9/35$

In: 2049.856 ± 0.336 $\chi^2/\text{NDF}: 856189.9/32$

Out: 2067.624 ± 0.334 $\chi^2/\text{NDF}: 984272.8/35$

All: 2058.790 ± 0.237 $\chi^2/\text{NDF}: 1841872.5/68$

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -170.351+/-782.384 χ^2/NDF : 14.5/16

Left Out: -531.007+/-520.533 χ^2/NDF :17.8/16

Right Out: -1197.543+/-764.254 χ^2/NDF : 18.2/18

Left In: -365.016+/-521.953 χ^2/NDF :28.5/15

Left: -448.238+/-368.574 χ^2/NDF : 46.3/32

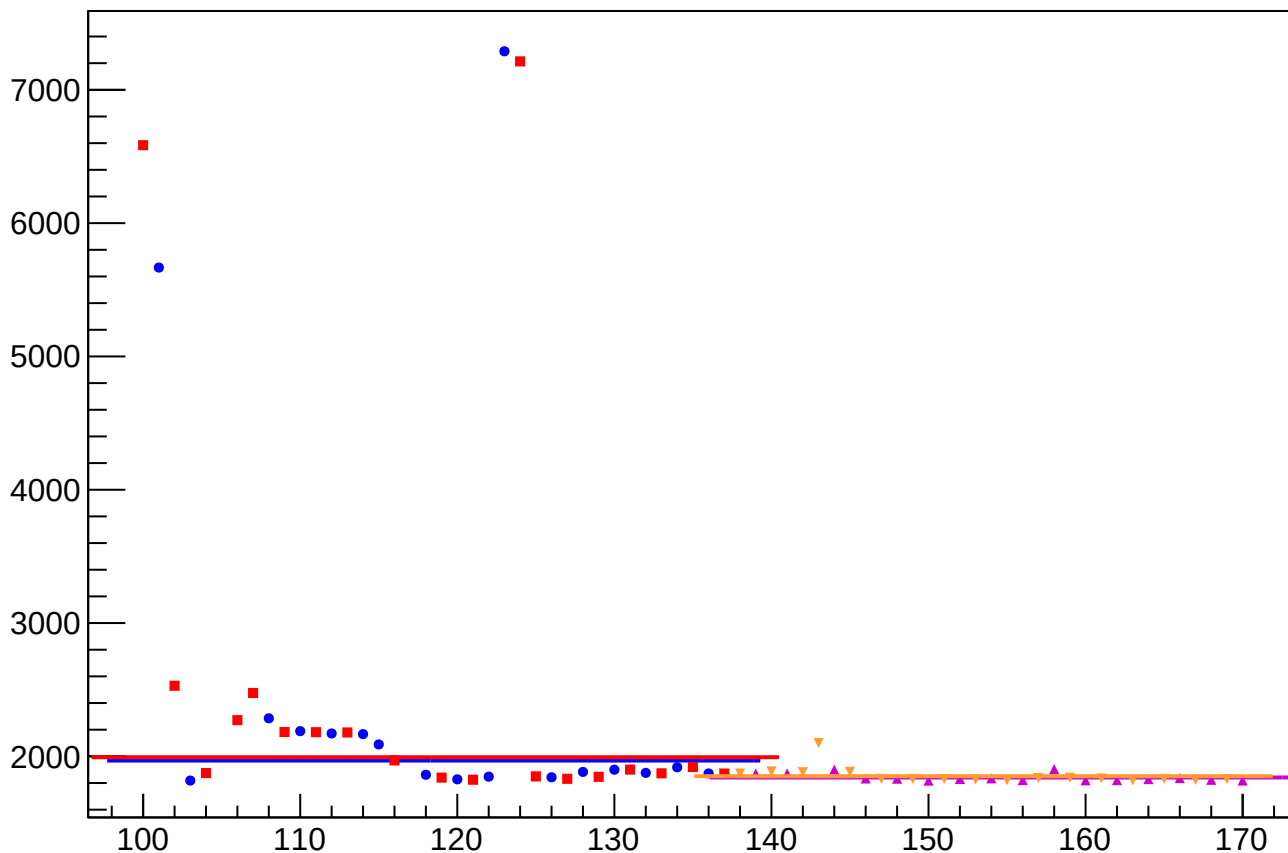
Right: -695.987+/-546.706 χ^2/NDF : 33.6/35

In: -305.061+/-434.198 χ^2/NDF :43.1/32

Out: -742.227+/-430.223 χ^2/NDF :36.5/35

All: -525.655+/-305.609 χ^2/NDF : 80.1/68

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1968.632 $\pm$ 0.553 χ^2 /NDF: 602972.8/16

Left Out: 1851.138 $\pm$ 0.368 χ^2 /NDF: 22490.4/16

Right Out: 1993.422 $\pm$ 0.540 χ^2 /NDF: 356172.4/18

Left In: 1841.514 $\pm$ 0.369 χ^2 /NDF: 5681.1/15

Left: 1846.339 $\pm$ 0.261 χ^2 /NDF: 28512.4/32

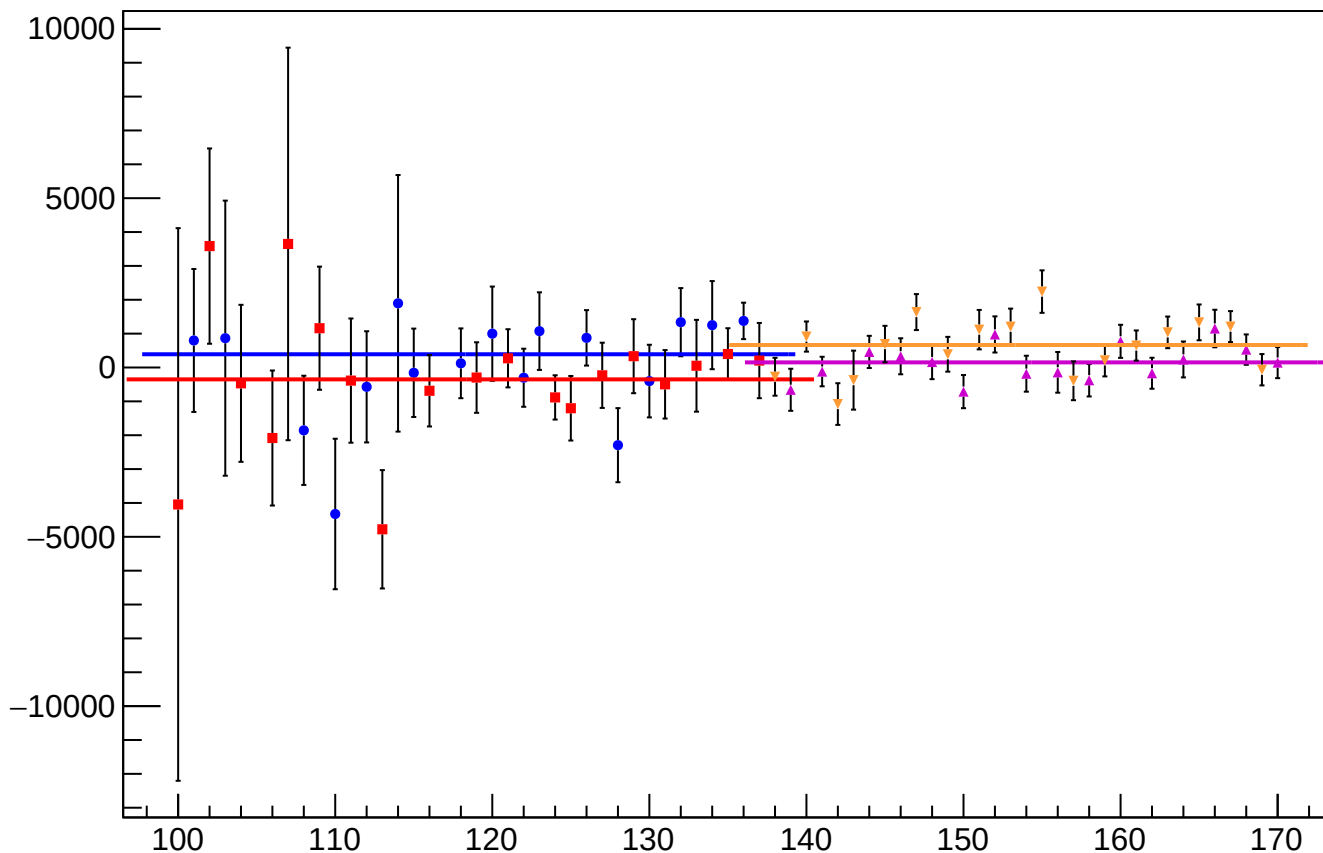
Right: 1981.318 $\pm$ 0.387 χ^2 /NDF: 960172.6/35

In: 1880.665 $\pm$ 0.307 χ^2 /NDF: 645189.7/32

Out: 1896.226 $\pm$ 0.304 χ^2 /NDF: 426016.8/35

All: 1888.517 $\pm$ 0.216 χ^2 /NDF: 1072502.8/68

asym_at1_dd_correction_mean vs Slug, Sign Corrected



Right In: 390.923+/-270.128 χ^2/NDF : 20.0/16

Left Out: 664.217+/-126.866 χ^2/NDF :34.6/16

Right Out: -350.642+/-266.097 χ^2/NDF : 14.2/18

Left In: 151.003+/-125.418 χ^2/NDF :16.1/15

Left: 404.666+/-89.191 χ^2/NDF : 59.0/32

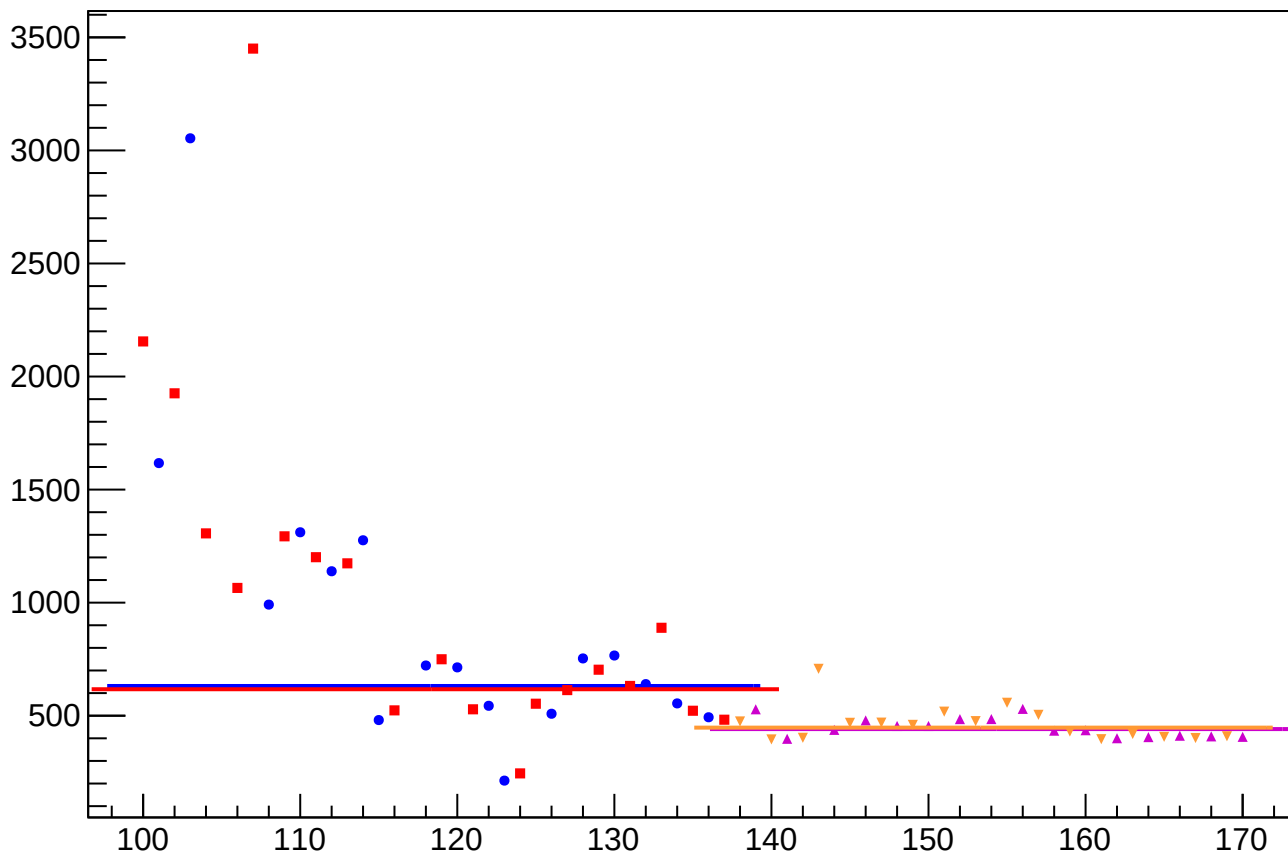
Right: 14.566+/-189.568 χ^2/NDF : 38.1/35

In: 193.550+/-113.755 χ^2/NDF :36.8/32

Out: 476.258+/-114.516 χ^2/NDF :60.7/35

All: 333.961+/-80.705 χ^2/NDF : 100.5/68

asym_at1_dd_correction_rms vs Slug, Sign Corrected



Right In: 631.430 $\pm$ 0.191 χ^2 /NDF: 2260692.7/16

Left Out: 447.259 $\pm$ 0.090 χ^2 /NDF: 427240.6/16

Right Out: 617.035 $\pm$ 0.188 χ^2 /NDF: 2802149.9/18

Left In: 440.873 $\pm$ 0.089 χ^2 /NDF: 196766.6/15

Left: 444.029 $\pm$ 0.063 χ^2 /NDF: 626570.5/32

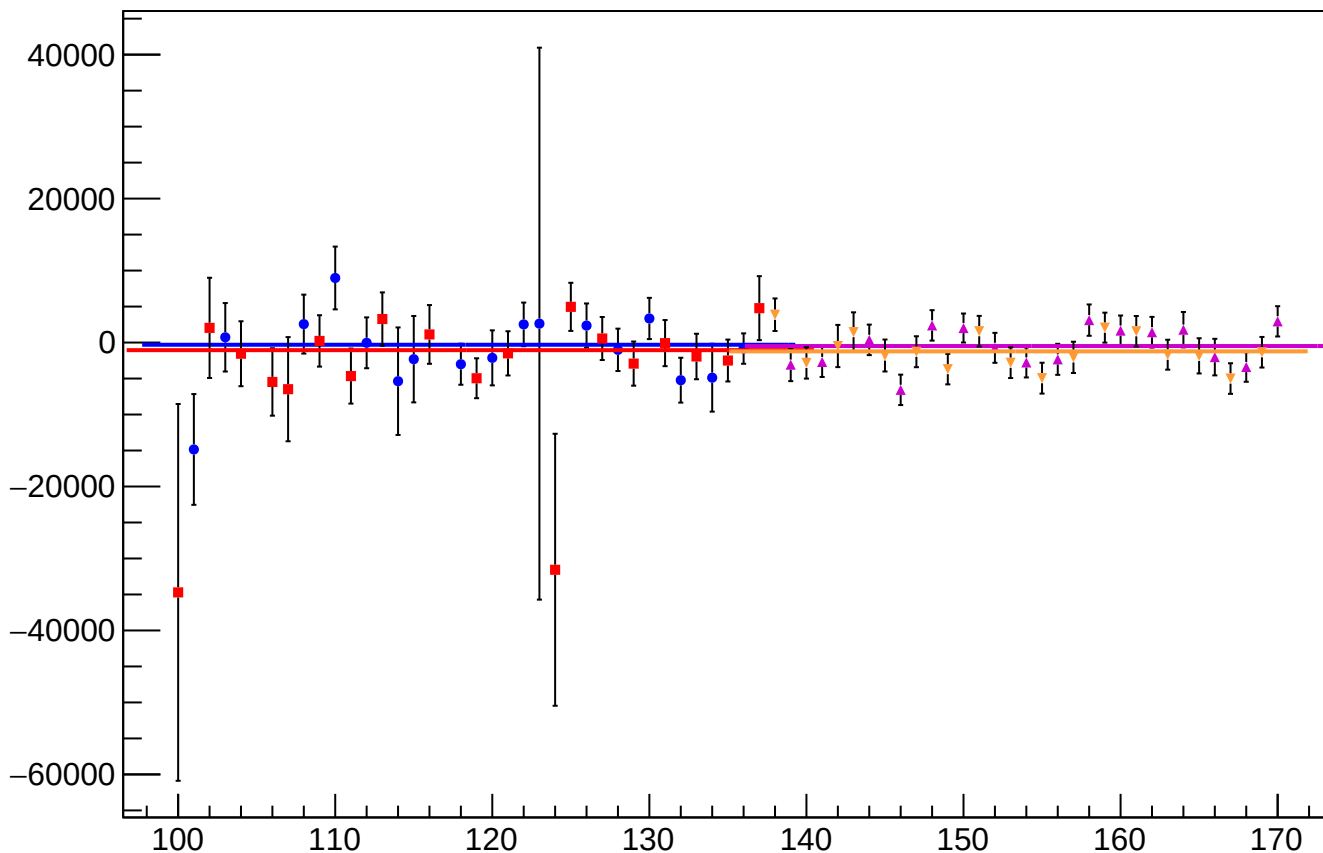
Right: 624.124 $\pm$ 0.134 χ^2 /NDF: 5065724.7/35

In: 474.666 $\pm$ 0.080 χ^2 /NDF: 3276225.7/32

Out: 478.703 $\pm$ 0.081 χ^2 /NDF: 3892754.9/35

All: 476.671 $\pm$ 0.057 χ^2 /NDF: 7170231.7/68

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -305.713 ± 871.922 χ^2/NDF : 17.2/16

Left Out: -1221.855 ± 537.406 χ^2/NDF : 21.0/16

Right Out: -1056.856 ± 867.445 χ^2/NDF : 16.6/18

Left In: -485.031 ± 537.809 χ^2/NDF : 26.7/15

Left: -853.720 ± 380.146 χ^2/NDF : 48.6/32

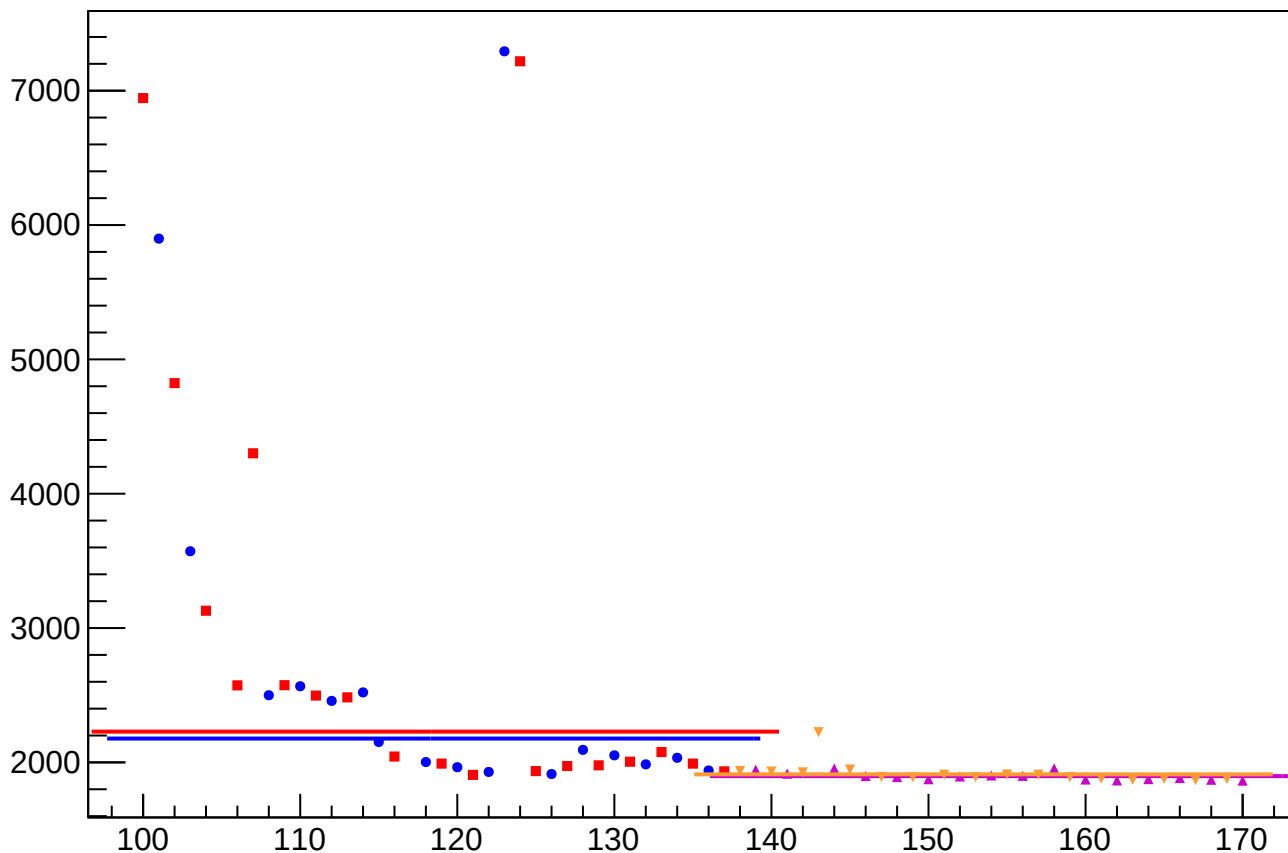
Right: -683.218 ± 614.953 χ^2/NDF : 34.2/35

In: -435.611 ± 457.739 χ^2/NDF : 43.9/32

Out: -1176.091 ± 456.840 χ^2/NDF : 37.7/35

All: -806.579 ± 323.352 χ^2/NDF : 82.8/68

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2177.446 $\pm$ 0.617 χ^2 /NDF: 802836.7/16

Left Out: 1911.049 $\pm$ 0.380 χ^2 /NDF:30781.5/16

Right Out: 2229.014 $\pm$ 0.613 χ^2 /NDF: 895809.1/18

Left In: 1897.618 $\pm$ 0.380 χ^2 /NDF:5981.3/15

Left: 1904.338 $\pm$ 0.269 χ^2 /NDF: 37386.9/32

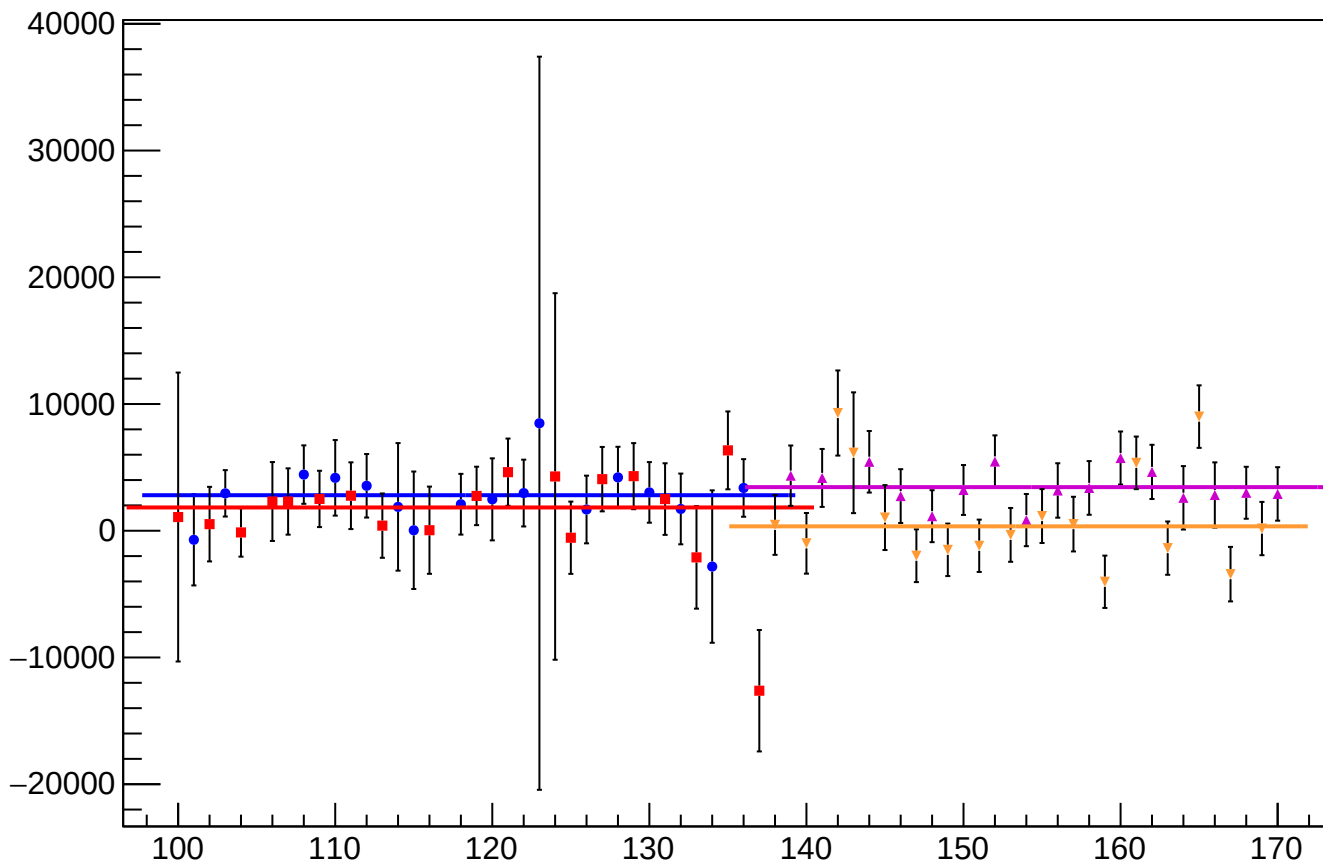
Right: 2203.363 $\pm$ 0.435 χ^2 /NDF: 1702161.6/35

In: 1974.739 $\pm$ 0.324 χ^2 /NDF:958041.3/32

Out: 1999.240 $\pm$ 0.323 χ^2 /NDF:1120781.2/35

All: 1987.013 $\pm$ 0.229 χ^2 /NDF: 2081693.3/68

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 2803.917 $\pm$ 678.548 χ^2/NDF : 3.9/16

Left Out: 347.304 $\pm$ 550.942 χ^2/NDF : 38.2/16

Right Out: 1837.168 $\pm$ 655.307 χ^2/NDF : 18.0/18

Left In: 3441.771 $\pm$ 543.403 χ^2/NDF : 6.7/15

Left: 1915.854 $\pm$ 386.882 χ^2/NDF : 60.9/32

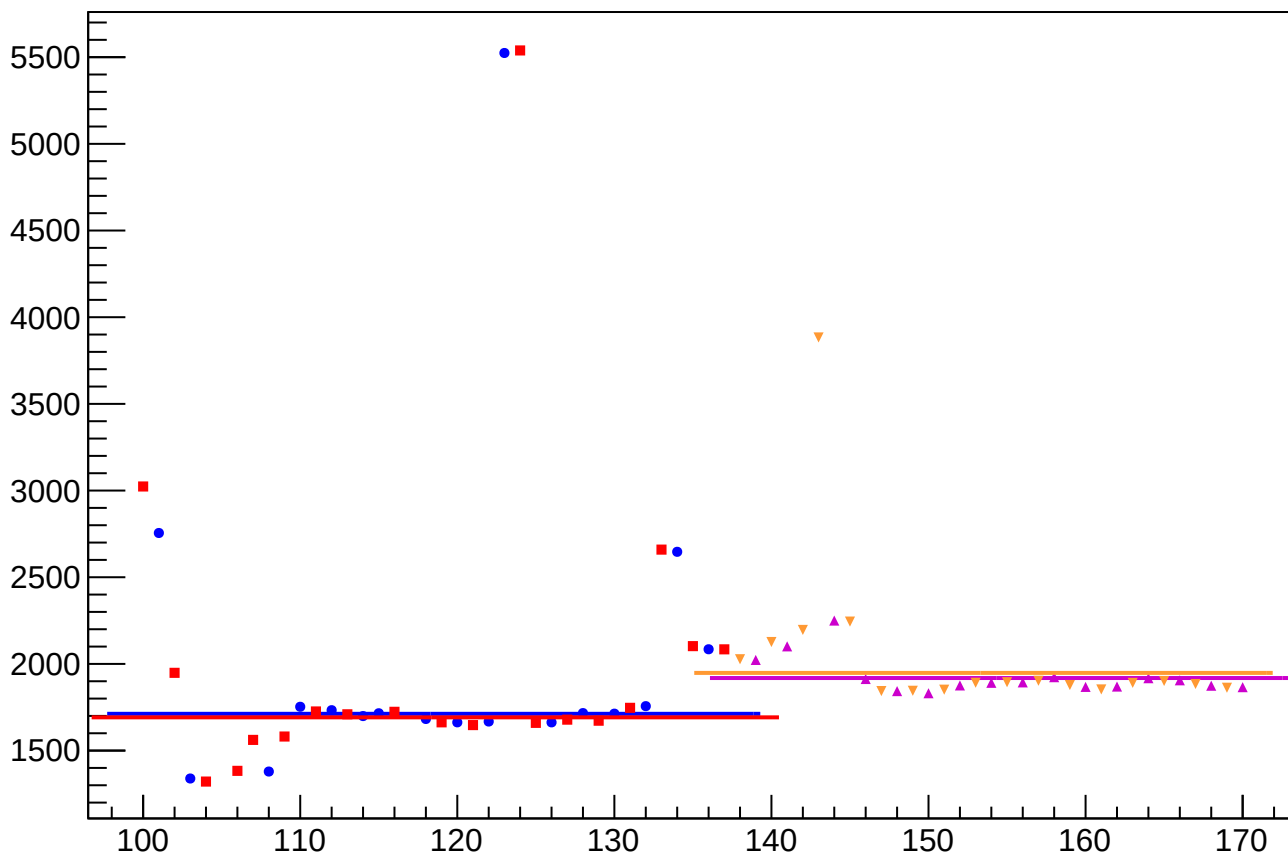
Right: 2303.702 $\pm$ 471.374 χ^2/NDF : 23.0/35

In: 3192.537 $\pm$ 424.154 χ^2/NDF : 11.1/32

Out: 964.291 $\pm$ 421.705 χ^2/NDF : 59.3/35

All: 2071.962 $\pm$ 299.053 χ^2/NDF : 84.3/68

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1712.154+/-0.480 χ^2/NDF : 432478.4/16

Left Out: 1948.165+/-0.390 χ^2/NDF : 412533.2/16

Right Out: 1691.747+/-0.463 χ^2/NDF : 454922.1/18

Left In: 1918.558+/-0.384 χ^2/NDF : 66542.1/15

Left: 1933.158+/-0.274 χ^2/NDF : 482002.9/32

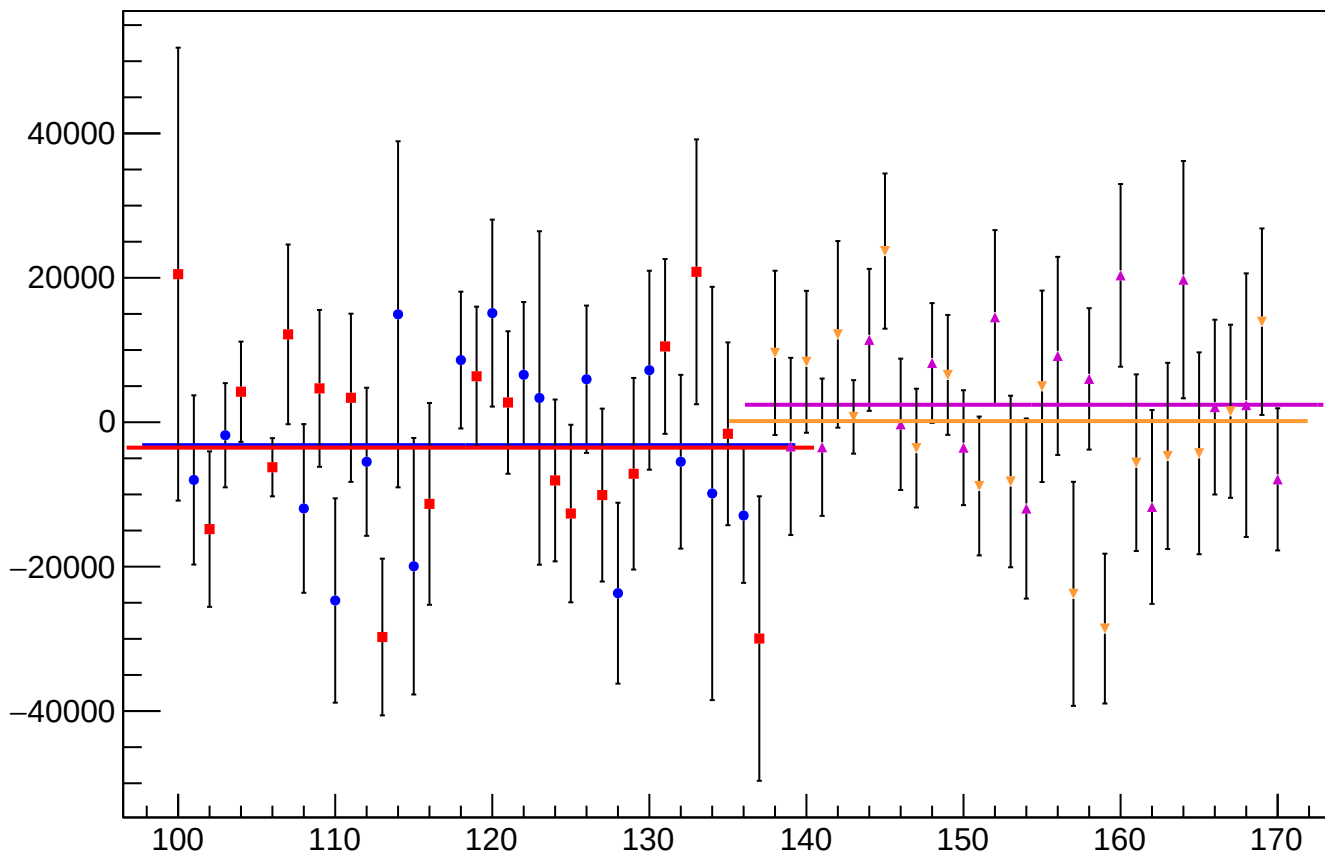
Right: 1701.595+/-0.333 χ^2/NDF : 888336.5/35

In: 1837.908+/-0.300 χ^2/NDF : 611768.9/32

Out: 1841.975+/-0.298 χ^2/NDF : 1046866.5/35

All: 1839.953+/-0.211 χ^2/NDF : 1658727.9/68

asym_at2_avg_correction_mean vs Slug, Sign Corrected



Right In: -3173.245 $\pm$ 2851.982 χ^2 /NDF: 14.4/16

Left Out: 158.961 $\pm$ 2436.790 χ^2 /NDF:21.0/16

Right Out: -3520.105 $\pm$ 2266.532 χ^2 /NDF: 19.5/18

Left In: 2418.051 $\pm$ 2720.034 χ^2 /NDF:10.6/15

Left: 1164.796 $\pm$ 1814.976 χ^2 /NDF: 32.0/32

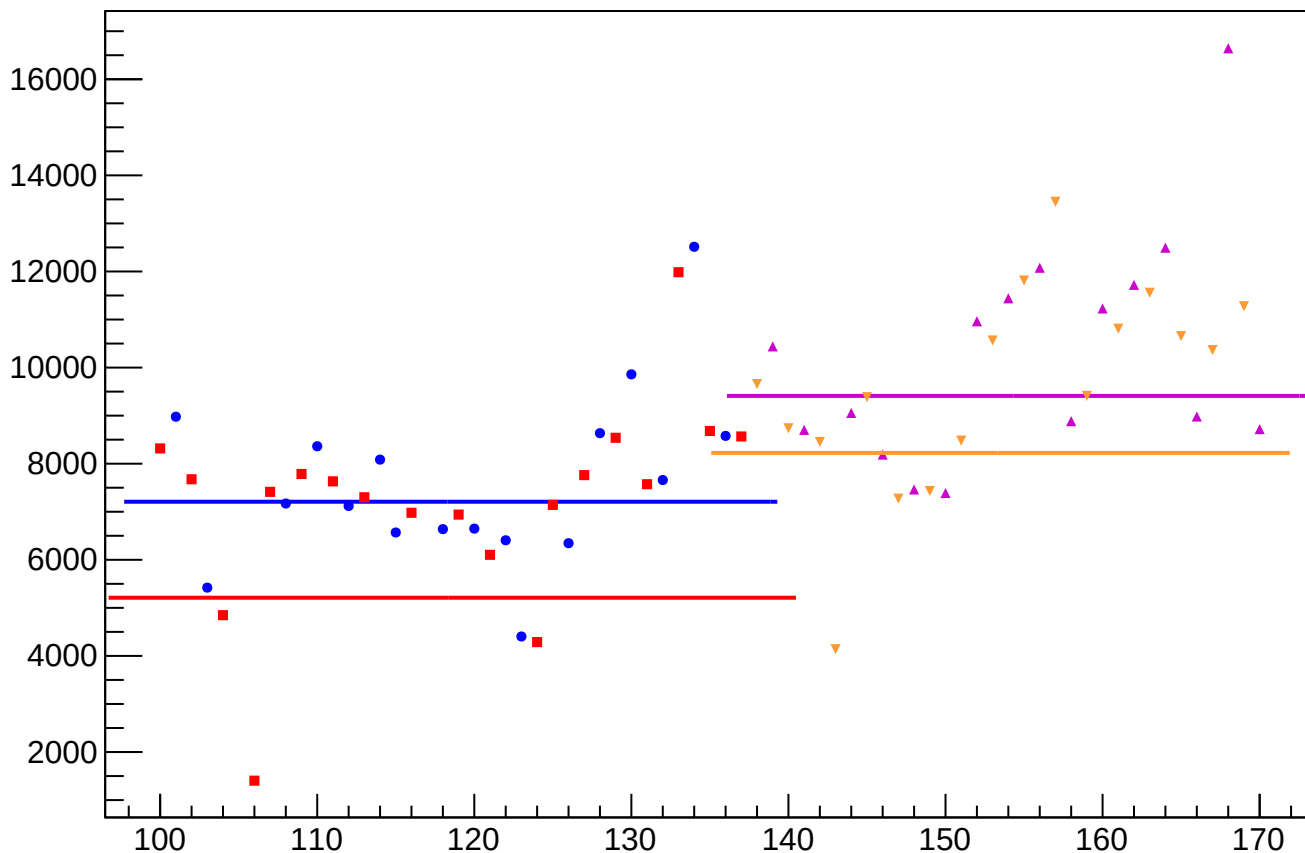
Right: -3385.836 $\pm$ 1774.424 χ^2 /NDF: 33.9/35

In: -245.267 $\pm$ 1968.348 χ^2 /NDF:27.0/32

Out: -1813.578 $\pm$ 1659.609 χ^2 /NDF:41.8/35

All: -1161.926 $\pm$ 1268.802 χ^2 /NDF: 69.1/68

asym_at2_avg_correction_rms vs Slug, Sign Corrected



Right In: 7208.567 $\pm$ 2.017 χ^2 /NDF: 469302.0/16

Left Out: 8224.886 $\pm$ 1.723 χ^2 /NDF: 2330630.2/16

Right Out: 5211.187 $\pm$ 1.603 χ^2 /NDF: 3196870.2/18

Left In: 9411.056 $\pm$ 1.923 χ^2 /NDF: 967958.7/15

Left: 8753.015 $\pm$ 1.283 χ^2 /NDF: 3509588.0/32

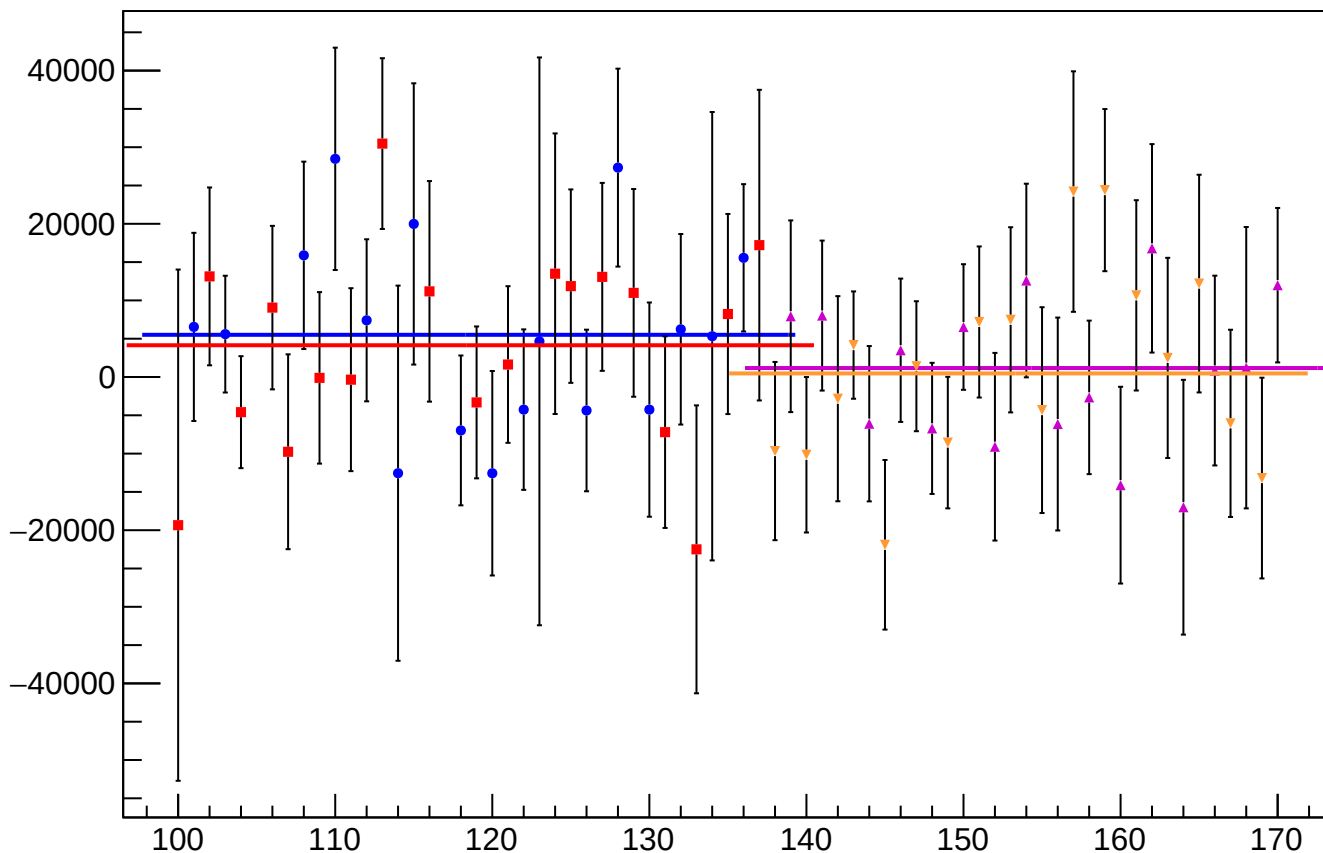
Right: 5984.369 $\pm$ 1.255 χ^2 /NDF: 4267414.1/35

In: 8361.938 $\pm$ 1.392 χ^2 /NDF: 2061885.3/32

Out: 6609.085 $\pm$ 1.174 χ^2 /NDF: 7167643.8/35

All: 7337.416 $\pm$ 0.897 χ^2 /NDF: 10156557.1/6

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 5509.395+/-2971.033 χ^2/NDF : 14.1/16

Left Out: 468.318+/-2634.060 χ^2/NDF : 18.5/16

Right Out: 4146.067+/-2790.212 χ^2/NDF : 15.4/18

Left In: 1171.055+/-2784.747 χ^2/NDF : 9.7/15

Left: 800.159+/-1913.617 χ^2/NDF : 28.2/32

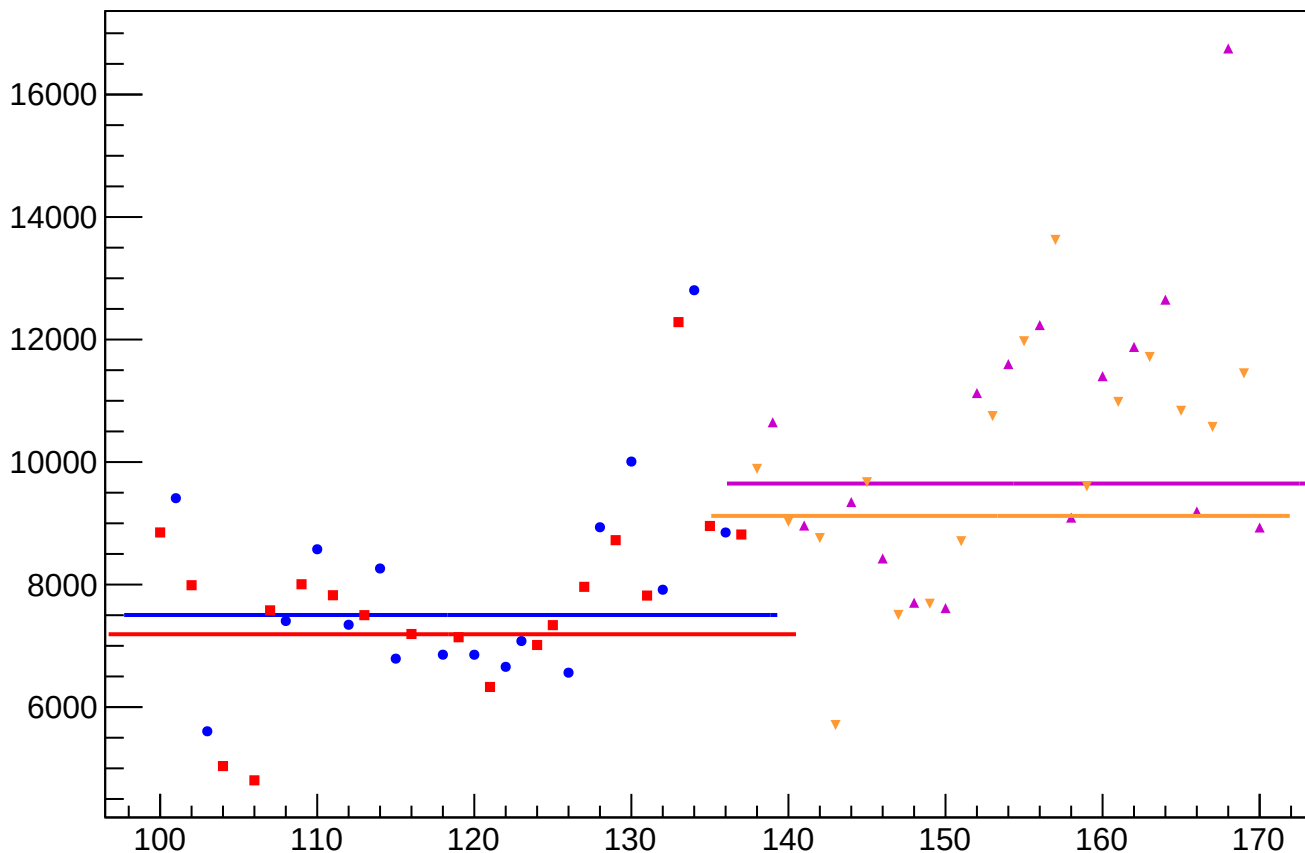
Right: 4784.984+/-2033.900 χ^2/NDF : 29.6/35

In: 3199.961+/-2031.780 χ^2/NDF : 24.9/32

Out: 2201.406+/-1915.387 χ^2/NDF : 34.8/35

All: 2671.264+/-1393.715 χ^2/NDF : 59.8/68

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 7503.667 $\pm$ 2.101 χ^2 /NDF: 427313.5/16

Left Out: 9121.303 $\pm$ 1.863 χ^2 /NDF: 1161538.3/16

Right Out: 7189.231 $\pm$ 1.973 χ^2 /NDF: 557703.4/18

Left In: 9649.283 $\pm$ 1.969 χ^2 /NDF: 904964.0/15

Left: 9370.622 $\pm$ 1.353 χ^2 /NDF: 2104447.1/32

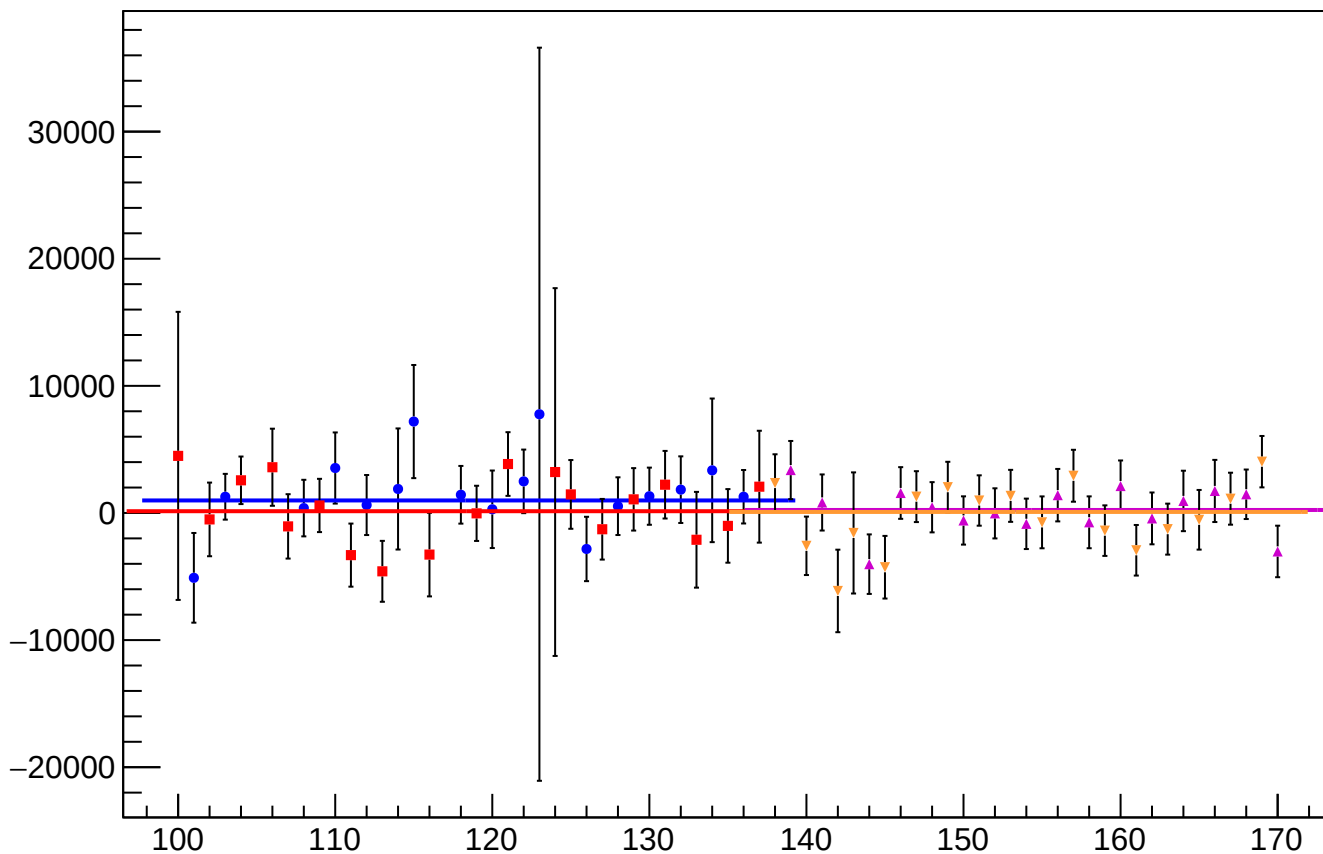
Right: 7336.574 $\pm$ 1.438 χ^2 /NDF: 996921.9/35

In: 8645.818 $\pm$ 1.437 χ^2 /NDF: 1887558.4/32

Out: 8210.717 $\pm$ 1.354 χ^2 /NDF: 2226375.9/35

All: 8415.438 $\pm$ 0.985 χ^2 /NDF: 4162499.0/68

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 985.452 ± 644.630 χ^2/NDF : 9.1/16

Left Out: 81.819 ± 528.346 χ^2/NDF : 20.7/16

Right Out: 138.627 ± 623.555 χ^2/NDF : 14.7/18

Left In: 235.855 ± 521.256 χ^2/NDF : 11.2/15

Left: 159.877 ± 371.065 χ^2/NDF : 32.0/32

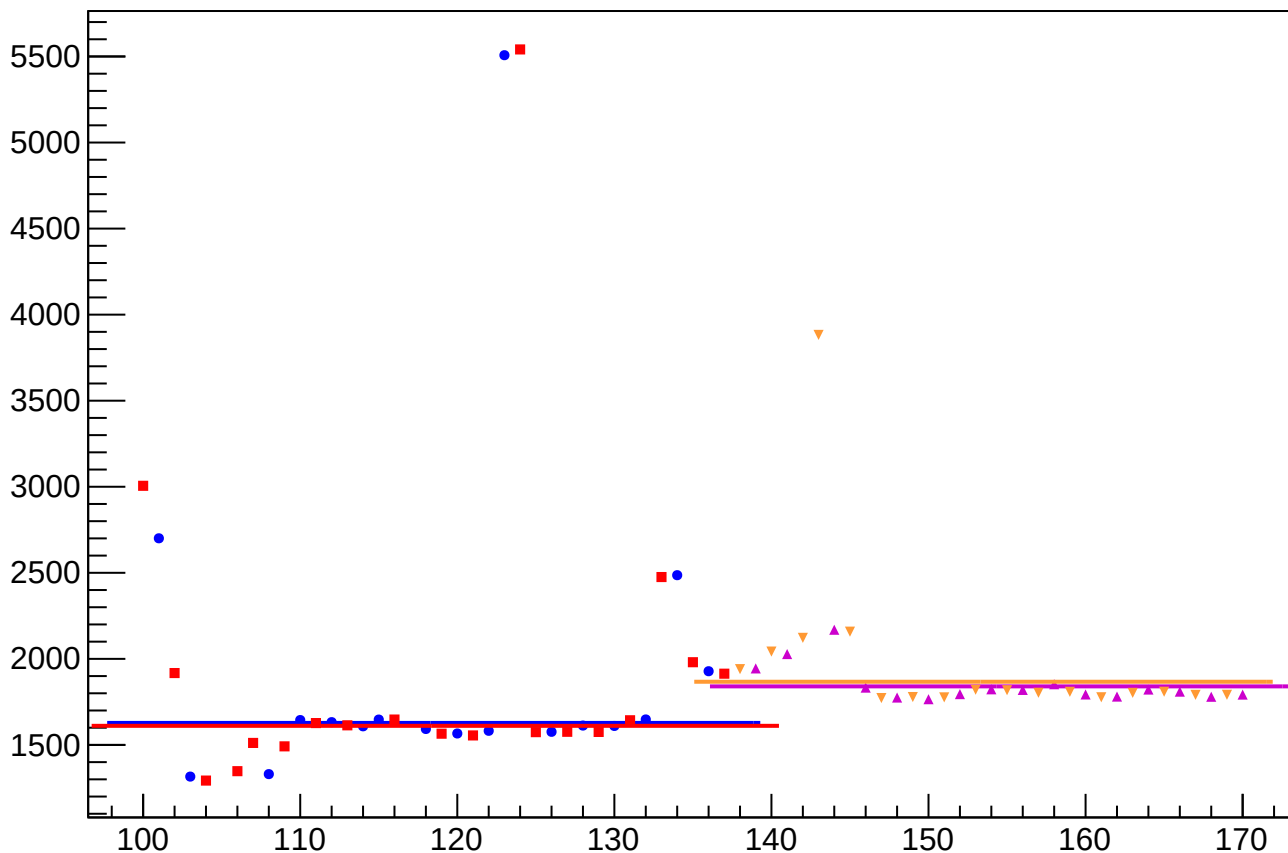
Right: 547.971 ± 448.185 χ^2/NDF : 24.6/35

In: 532.209 ± 405.324 χ^2/NDF : 21.1/32

Out: 105.560 ± 403.101 χ^2/NDF : 35.4/35

All: 317.712 ± 285.818 χ^2/NDF : 57.0/68

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1627.836 $\pm$ 0.456 χ^2 /NDF: 407106.6/16

Left Out: 1867.077 $\pm$ 0.374 χ^2 /NDF: 443365.7/16

Right Out: 1610.948 $\pm$ 0.441 χ^2 /NDF: 433960.8/18

Left In: 1840.164 $\pm$ 0.369 χ^2 /NDF: 71108.0/15

Left: 1853.439 $\pm$ 0.262 χ^2 /NDF: 517103.4/32

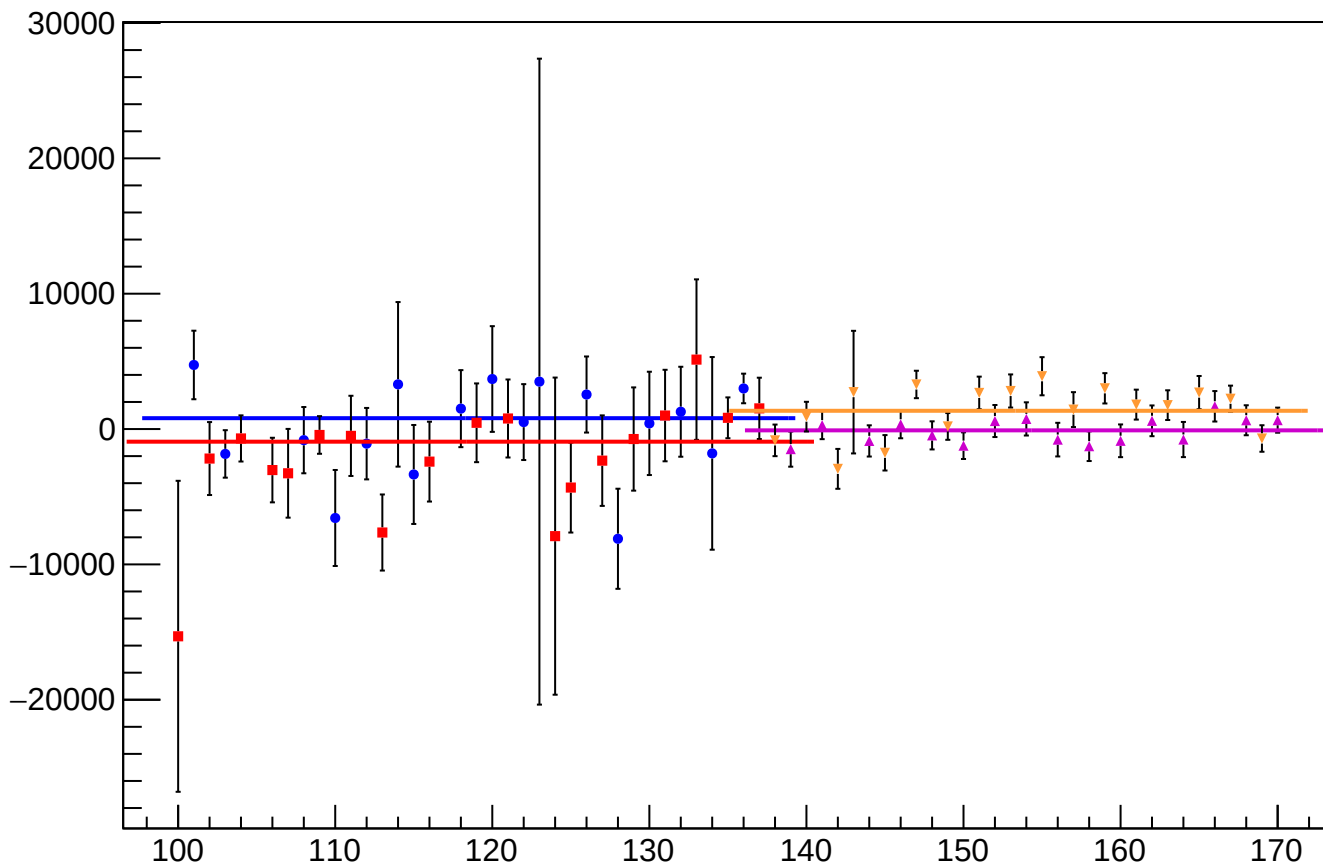
Right: 1619.112 $\pm$ 0.317 χ^2 /NDF: 841776.5/35

In: 1756.220 $\pm$ 0.287 χ^2 /NDF: 609412.4/32

Out: 1760.039 $\pm$ 0.285 χ^2 /NDF: 1073748.5/35

All: 1758.140 $\pm$ 0.202 χ^2 /NDF: 1683250.1/68

asym_at2_dd_correction_mean vs Slug, Sign Corrected



Right In: 803.048 $\pm$ 631.676 χ^2/NDF : 22.4/16

Left Out: 1348.893 $\pm$ 284.686 χ^2/NDF : 37.8/16

Right Out: -933.645 $\pm$ 589.727 χ^2/NDF : 15.3/18

Left In: -96.816 $\pm$ 278.812 χ^2/NDF : 10.3/15

Left: 610.970 $\pm$ 199.194 χ^2/NDF : 61.2/32

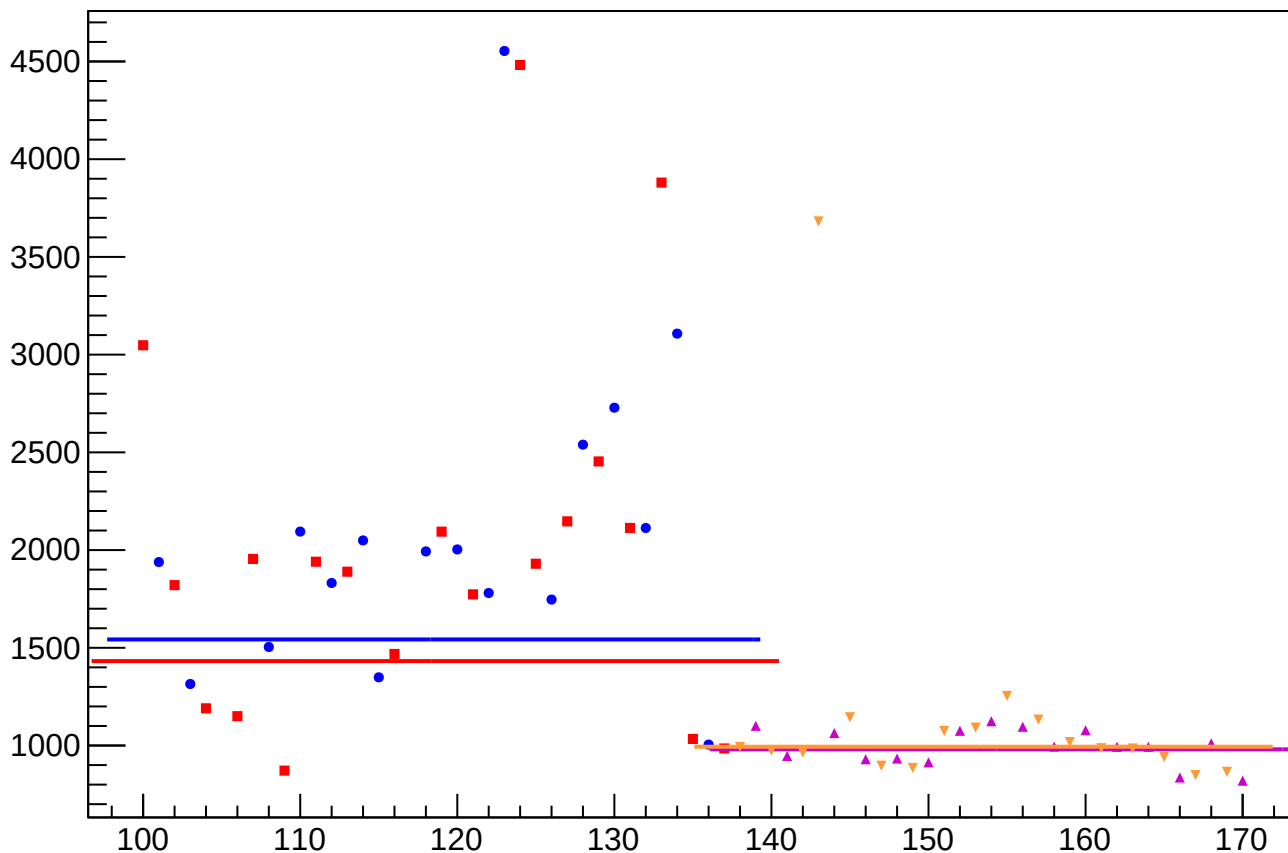
Right: -124.875 $\pm$ 431.067 χ^2/NDF : 41.7/35

In: 49.910 $\pm$ 255.070 χ^2/NDF : 34.4/32

Out: 917.502 $\pm$ 256.376 χ^2/NDF : 65.2/35

All: 481.491 $\pm$ 180.822 χ^2/NDF : 105.4/68

asym_at2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1542.705+/-0.447 χ^2/NDF : 1287946.3/16

Left Out: 993.865+/-0.201 χ^2/NDF : 971650.2/16

Right Out: 1432.013+/-0.417 χ^2/NDF : 1823809.4/18

Left In: 980.627+/-0.197 χ^2/NDF : 213589.7/15

Left: 987.108+/-0.141 χ^2/NDF : 1187447.0/32

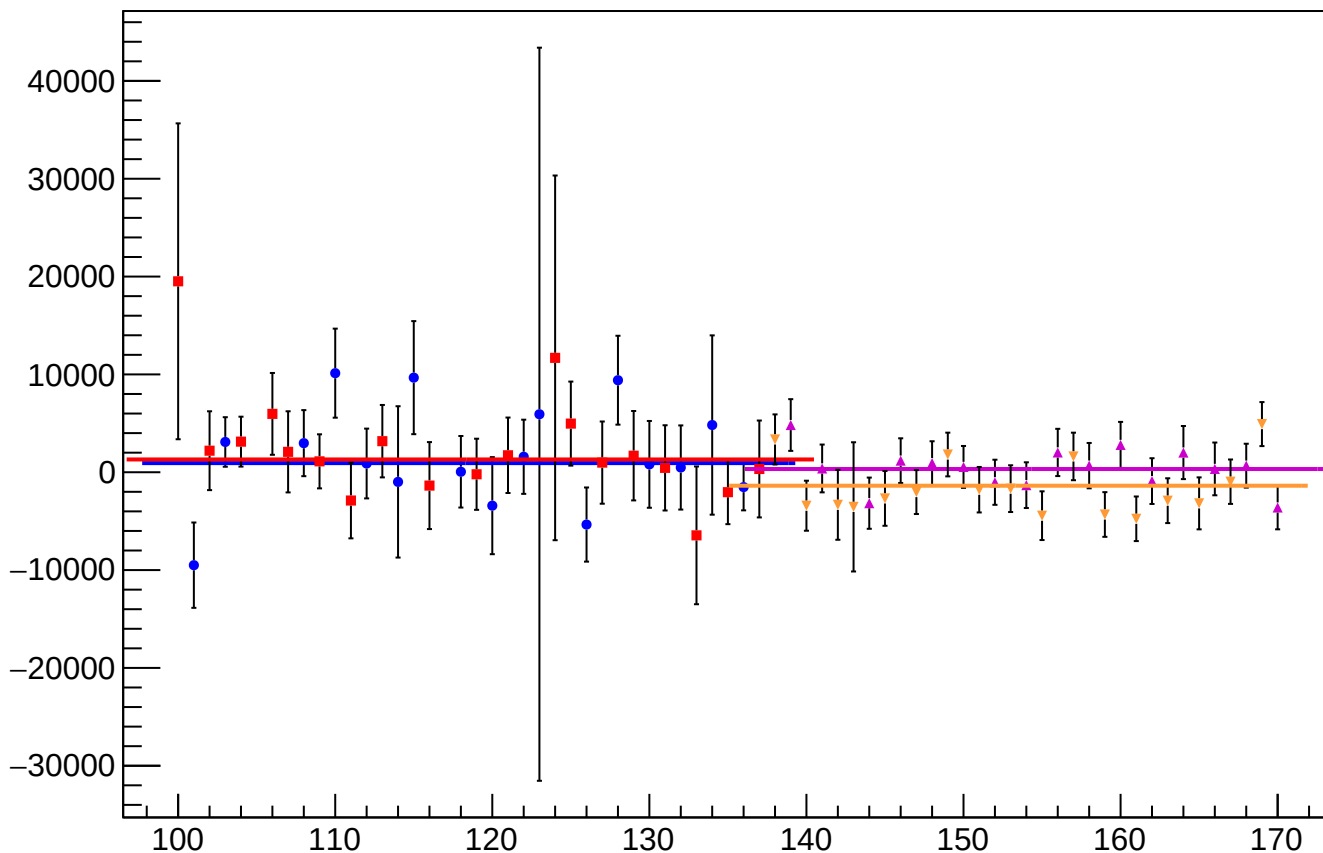
Right: 1483.562+/-0.305 χ^2/NDF : 3144570.0/35

In: 1072.276+/-0.180 χ^2/NDF : 2826888.5/32

Out: 1076.673+/-0.181 χ^2/NDF : 3690811.3/35

All: 1074.464+/-0.128 χ^2/NDF : 6517995.3/68

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 932.818 ± 967.941 χ^2/NDF : 21.6/16

Left Out: -1377.218 ± 604.903 χ^2/NDF : 22.5/16

Right Out: 1307.802 ± 925.415 χ^2/NDF : 8.5/18

Left In: 329.798 ± 594.187 χ^2/NDF : 11.1/15

Left: -508.457 ± 423.892 χ^2/NDF : 37.7/32

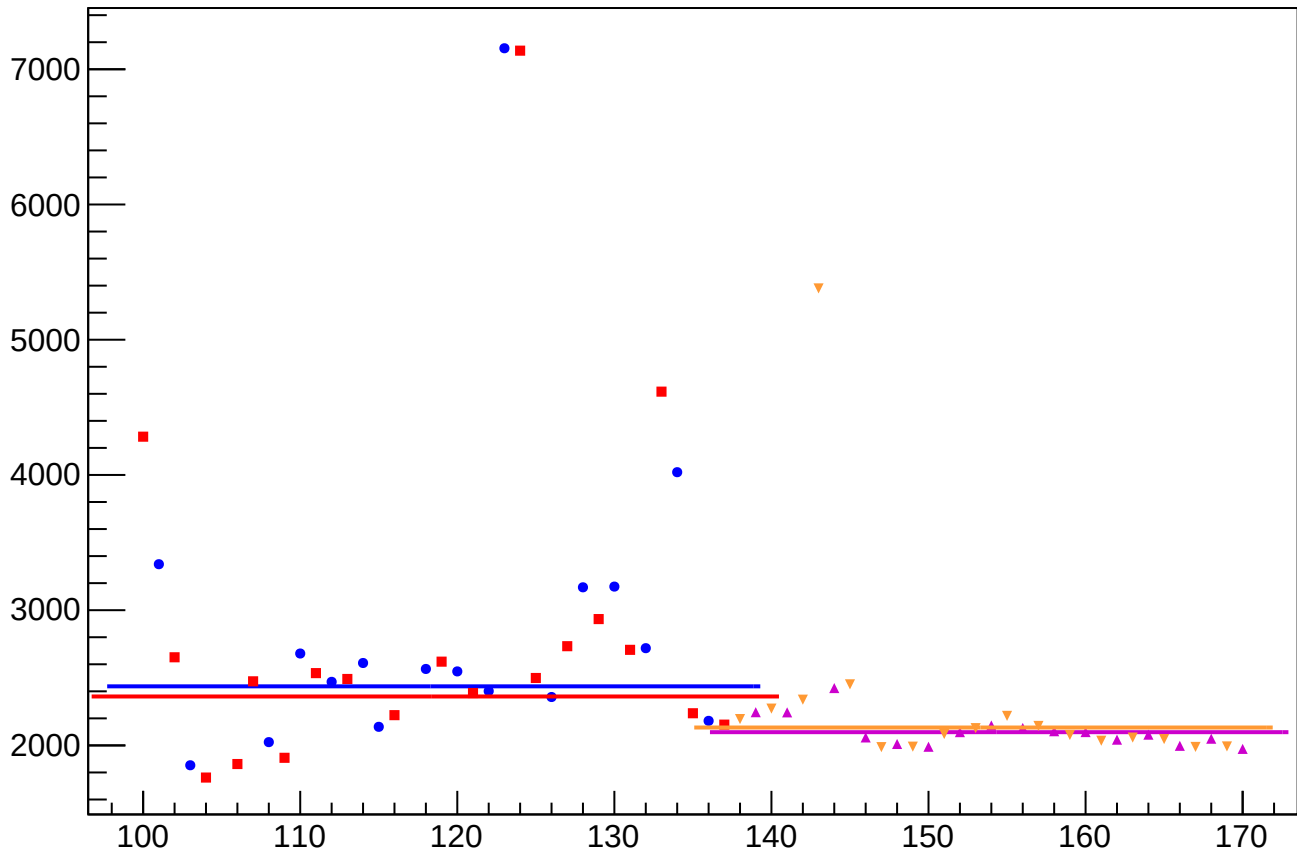
Right: 1128.728 ± 668.896 χ^2/NDF : 30.2/35

In: 494.842 ± 506.387 χ^2/NDF : 33.0/32

Out: -573.432 ± 506.329 χ^2/NDF : 36.9/35

All: -39.356 ± 358.049 χ^2/NDF : 72.1/68

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2436.855 ± 0.684 $\chi^2/\text{NDF}: 469030.2/16$

Left Out: 2132.401 ± 0.428 $\chi^2/\text{NDF}: 567889.1/16$

Right Out: 2361.880 ± 0.654 $\chi^2/\text{NDF}: 655847.5/18$

Left In: 2097.949 ± 0.420 $\chi^2/\text{NDF}: 65507.4/15$

Left: 2114.867 ± 0.300 $\chi^2/\text{NDF}: 636698.3/32$

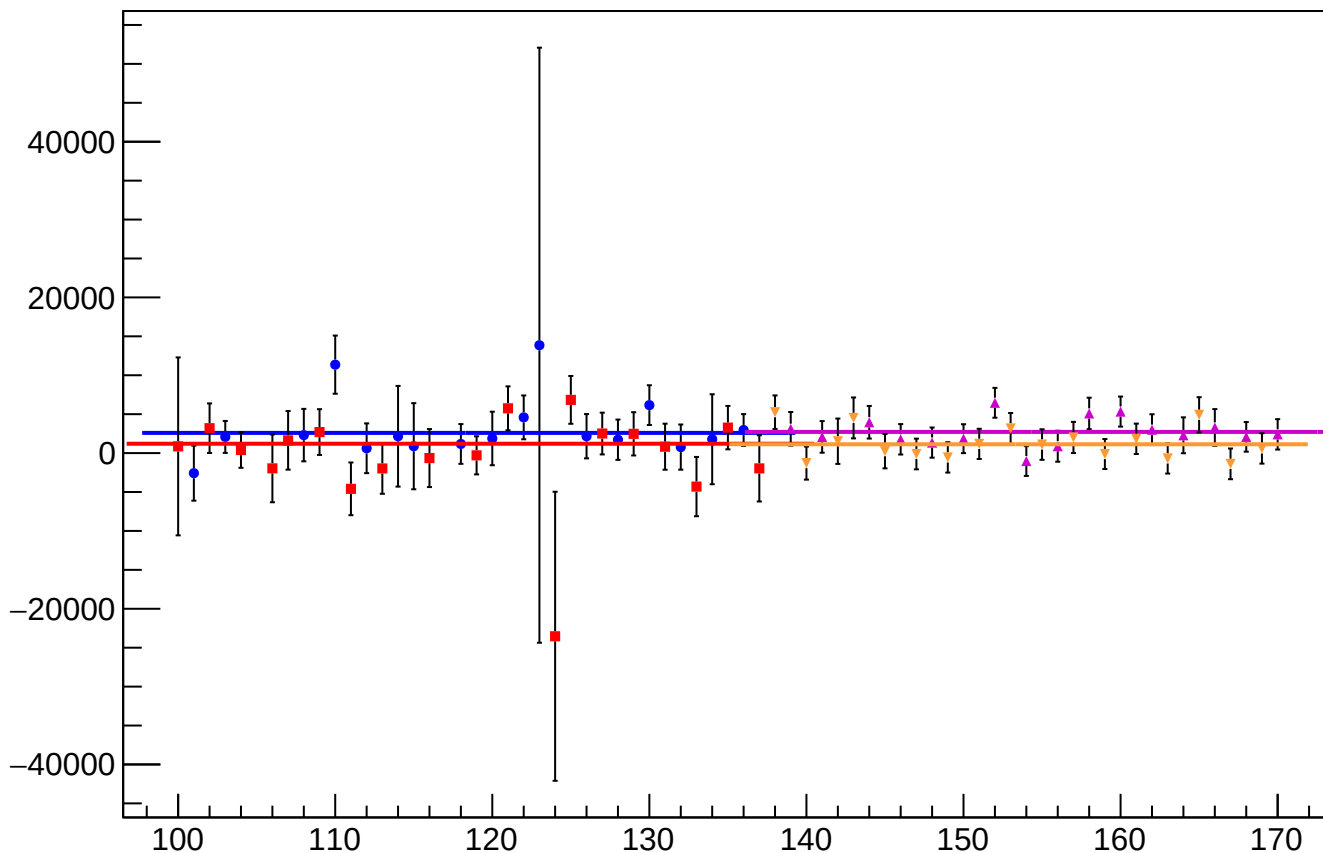
Right: 2397.684 ± 0.473 $\chi^2/\text{NDF}: 1131146.9/35$

In: 2190.706 ± 0.358 $\chi^2/\text{NDF}: 712616.1/32$

Out: 2201.098 ± 0.358 $\chi^2/\text{NDF}: 1309903.6/35$

All: 2195.903 ± 0.253 $\chi^2/\text{NDF}: 2022940.9/68$

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2594.684 $\pm$ 743.000 χ^2 /NDF: 11.7/16

Left Out: 1133.484 $\pm$ 502.139 χ^2 /NDF:15.1/16

Right Out: 1202.548 $\pm$ 739.618 χ^2 /NDF: 17.2/18

Left In: 2720.580 $\pm$ 501.484 χ^2 /NDF:13.4/15

Left: 1928.069 $\pm$ 354.834 χ^2 /NDF: 33.5/32

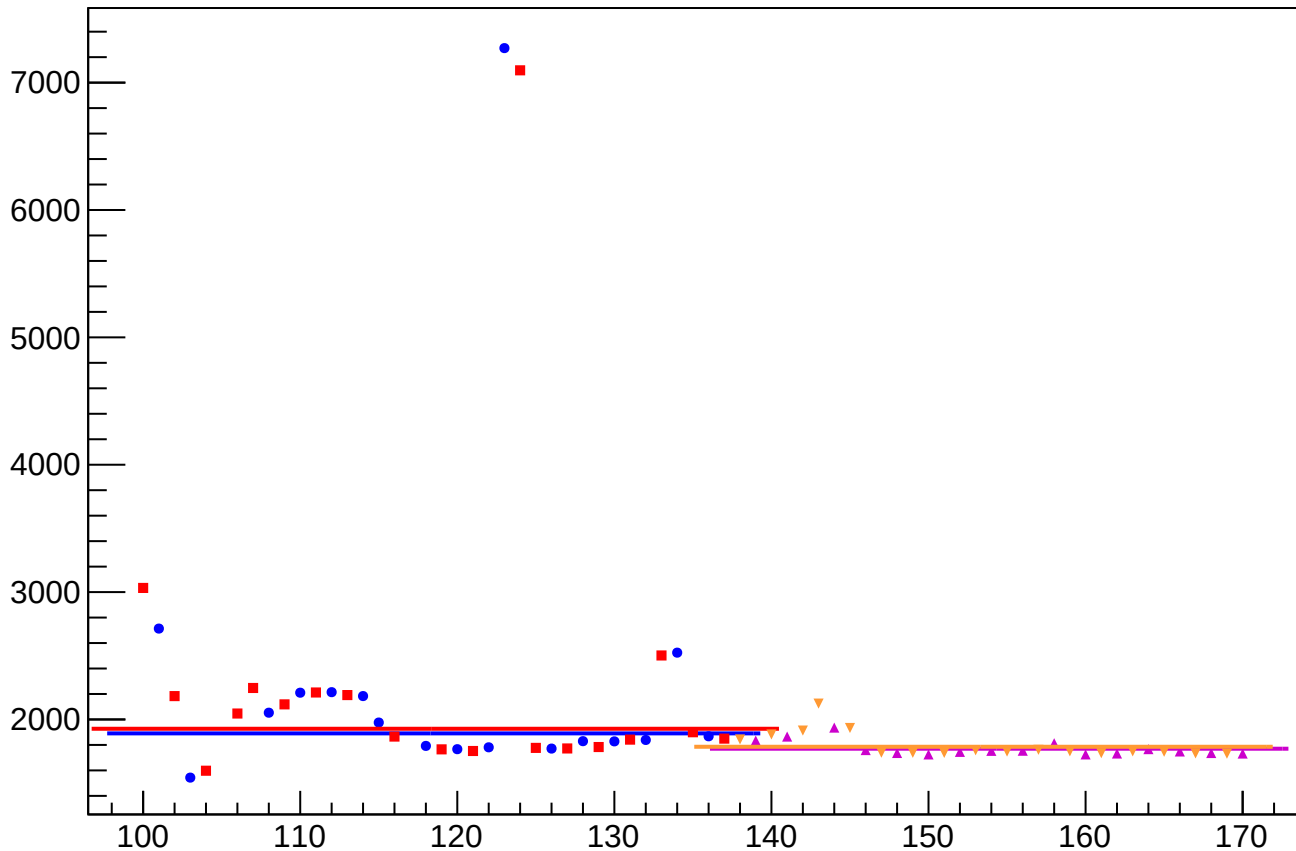
Right: 1895.439 $\pm$ 524.180 χ^2 /NDF: 30.7/35

In: 2681.178 $\pm$ 415.665 χ^2 /NDF:25.1/32

Out: 1155.274 $\pm$ 415.441 χ^2 /NDF:32.3/35

All: 1917.816 $\pm$ 293.840 χ^2 /NDF: 64.2/68

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1890.721 ± 0.525 $\chi^2/\text{NDF}: 288944.9/16$

Left Out: 1785.639 ± 0.355 $\chi^2/\text{NDF}: 62894.2/16$

Right Out: 1926.949 ± 0.522 $\chi^2/\text{NDF}: 362254.5/18$

Left In: 1770.296 ± 0.355 $\chi^2/\text{NDF}: 25402.1/15$

Left: 1777.958 ± 0.251 $\chi^2/\text{NDF}: 89231.1/32$

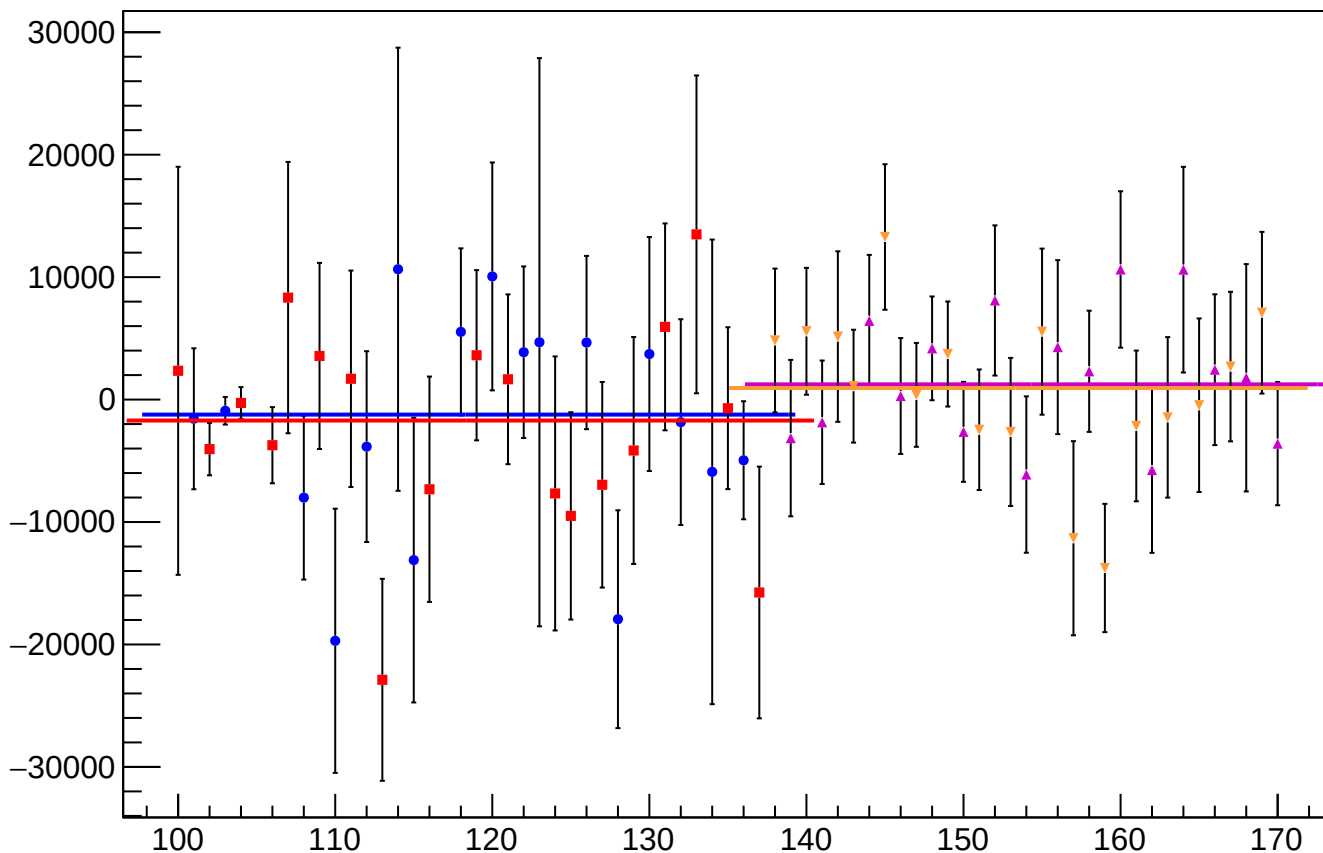
Right: 1908.946 ± 0.370 $\chi^2/\text{NDF}: 653591.4/35$

In: 1807.986 ± 0.294 $\chi^2/\text{NDF}: 350442.9/32$

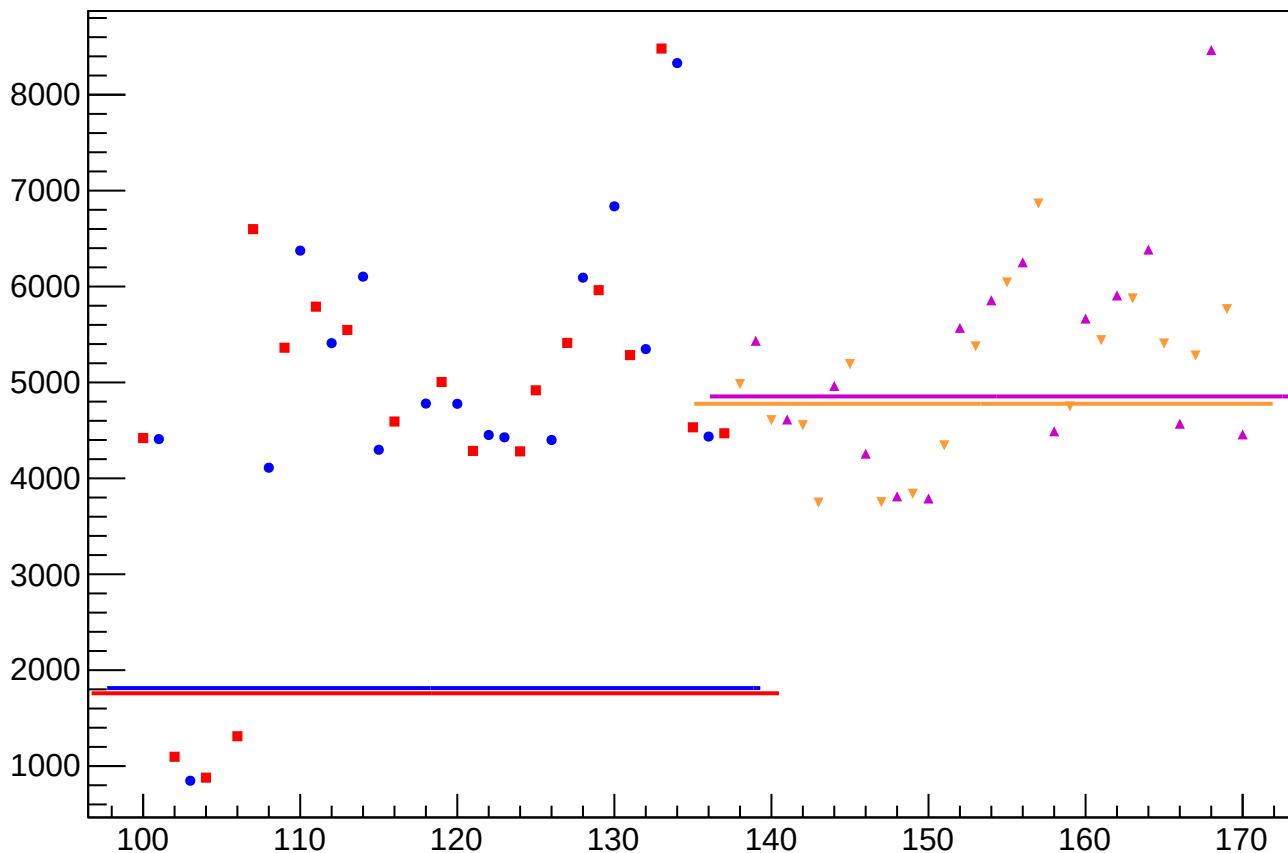
Out: 1830.319 ± 0.294 $\chi^2/\text{NDF}: 475229.1/35$

All: 1819.164 ± 0.208 $\chi^2/\text{NDF}: 828561.6/68$

asym_atl1r2_avg_correction_mean vs Slug, Sign Corrected



asym_atl1r2_avg_correction_rms vs Slug, Sign Corrected



Right In: 1813.195+/-0.696 χ^2/NDF : 6449038.4/16

Left Out: 4777.681+/-0.967 χ^2/NDF : 725808.4/16

Right Out: 1759.135+/-0.666 χ^2/NDF : 6313068.7/18

Left In: 4853.981+/-0.992 χ^2/NDF : 941869.0/15

Left: 4814.887+/-0.692 χ^2/NDF : 1670710.8/32

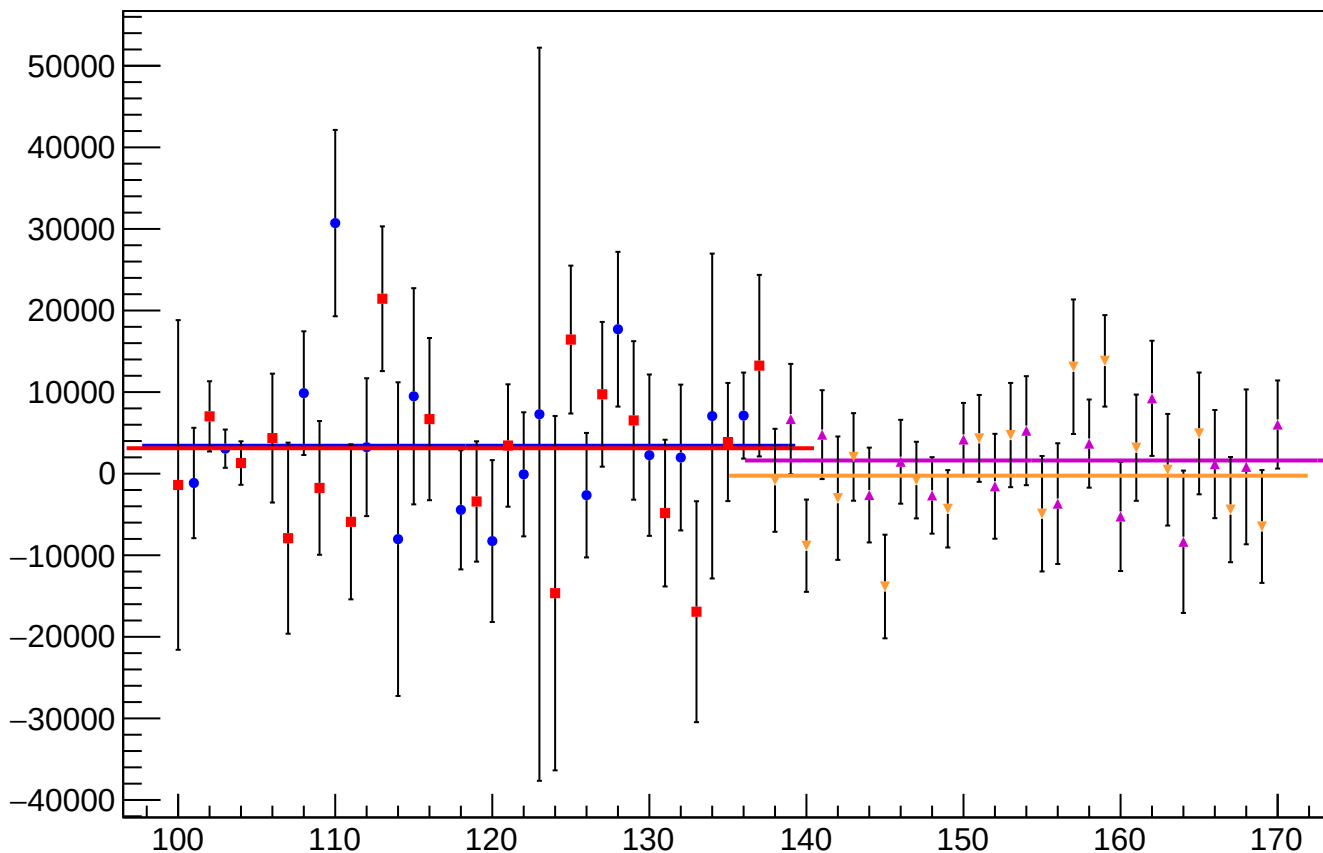
Right: 1784.958+/-0.481 χ^2/NDF : 12765256.3/35

In: 2817.188+/-0.570 χ^2/NDF : 13689216.4/32

Out: 2729.361+/-0.548 χ^2/NDF : 13645603.8/35

All: 2771.598+/-0.395 χ^2/NDF : 27347152.2/66

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 3421.264+/-1606.678 χ^2/NDF : 13.7/16

Left Out: -245.981+/-1478.960 χ^2/NDF : 20.6/16

Right Out: 3117.857+/-1605.930 χ^2/NDF : 16.0/18

Left In: 1617.149+/-1505.858 χ^2/NDF : 8.0/15

Left: 668.795+/-1055.164 χ^2/NDF : 29.4/32

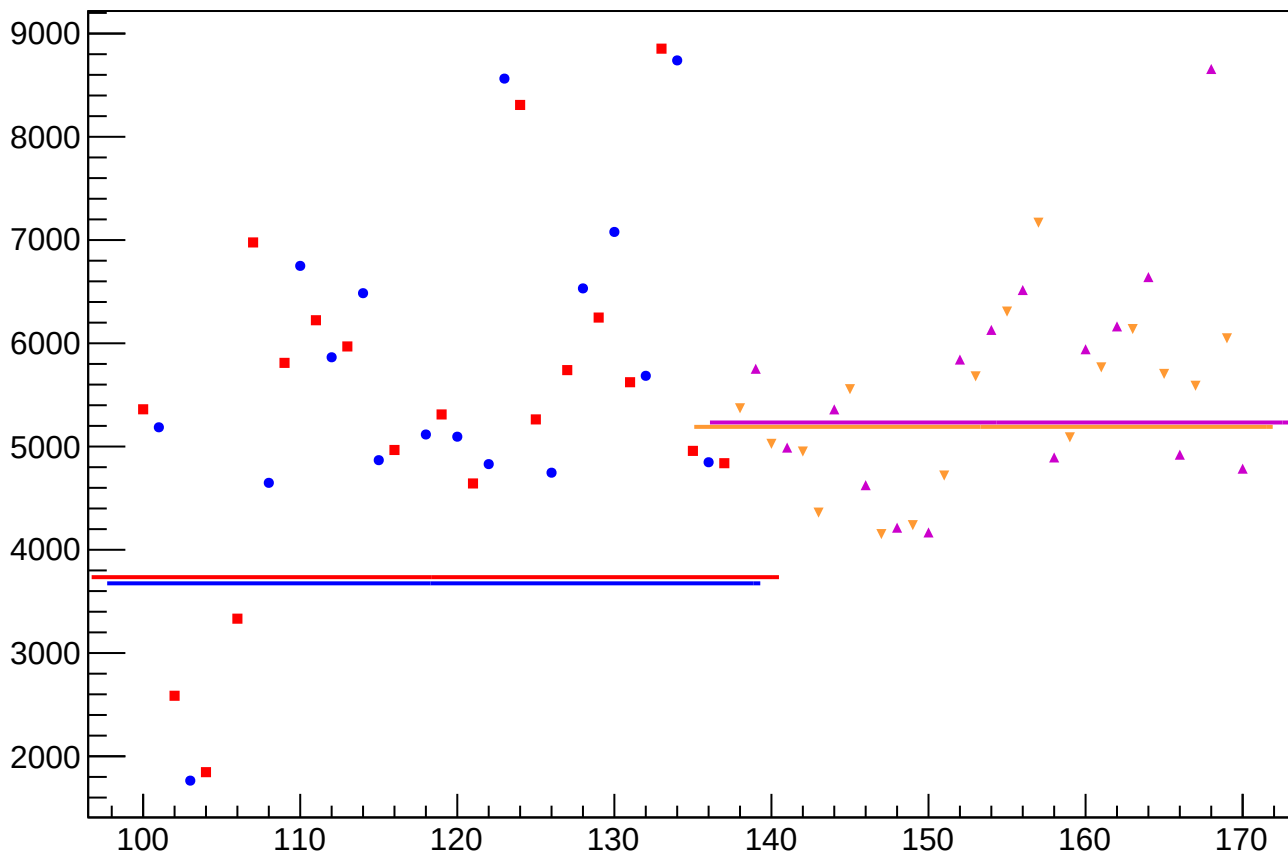
Right: 3269.490+/-1135.828 χ^2/NDF : 29.7/35

In: 2460.830+/-1098.717 χ^2/NDF : 22.4/32

Out: 1297.721+/-1087.905 χ^2/NDF : 39.0/35

All: 1873.524+/-773.059 χ^2/NDF : 62.0/68

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 3675.003 $\pm$ 1.136 χ^2 /NDF: 2775085.7/16

Left Out: 5190.579 $\pm$ 1.046 χ^2 /NDF: 532897.7/16

Right Out: 3734.796 $\pm$ 1.128 χ^2 /NDF: 2693929.0/18

Left In: 5232.980 $\pm$ 1.065 χ^2 /NDF: 761505.9/15

Left: 5211.397 $\pm$ 0.746 χ^2 /NDF: 1295210.8/32

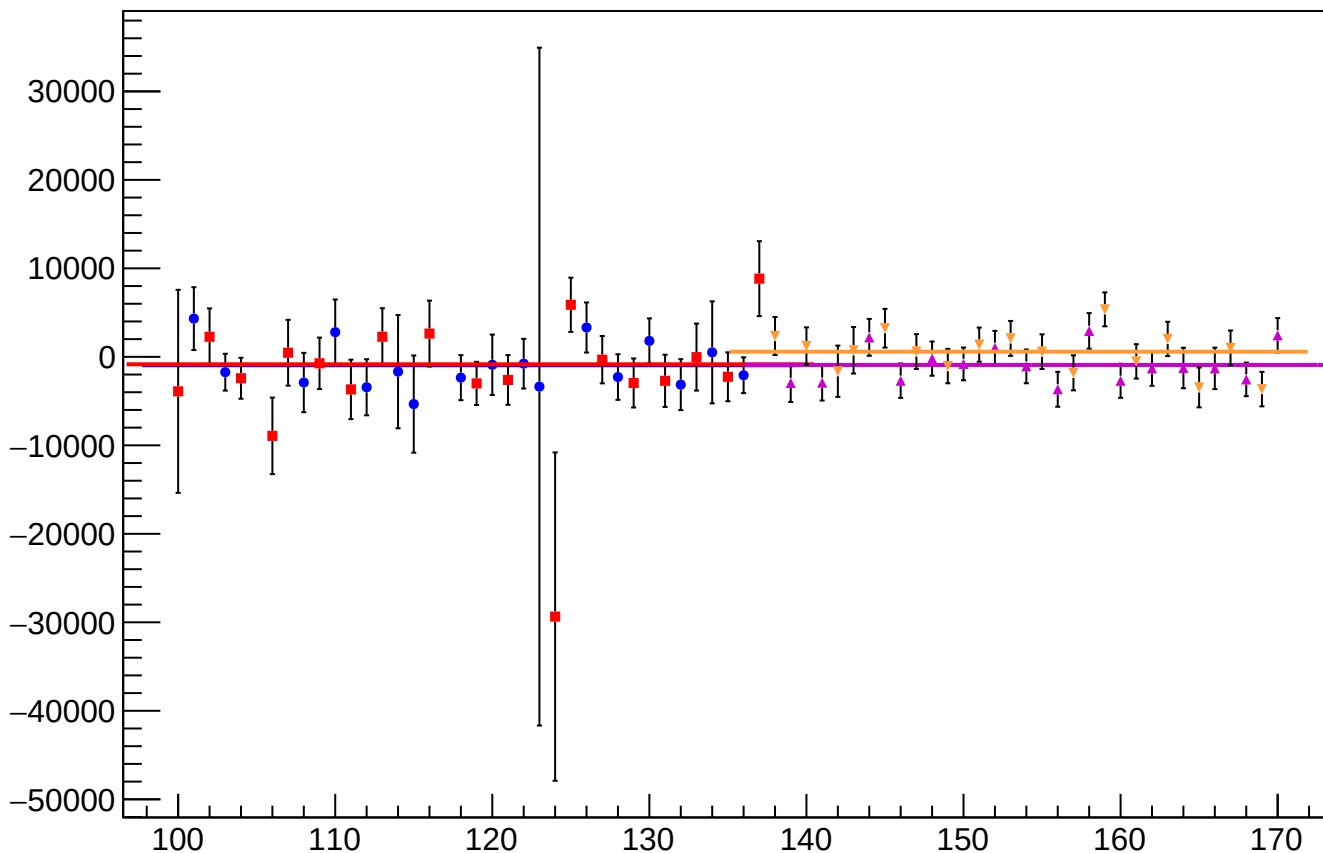
Right: 3705.112 $\pm$ 0.800 χ^2 /NDF: 5470409.5/35

In: 4504.404 $\pm$ 0.777 χ^2 /NDF: 4537738.3/32

Out: 4517.685 $\pm$ 0.767 χ^2 /NDF: 4122523.0/35

All: 4511.130 $\pm$ 0.546 χ^2 /NDF: 8660409.3/68

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -951.377 ± 740.668 χ^2/NDF : 10.0/16

Left Out: 582.815 ± 500.108 χ^2/NDF : 20.8/16

Right Out: -843.515 ± 737.527 χ^2/NDF : 22.5/18

Left In: -918.701 ± 499.399 χ^2/NDF : 16.4/15

Left: -169.008 ± 353.379 χ^2/NDF : 41.7/32

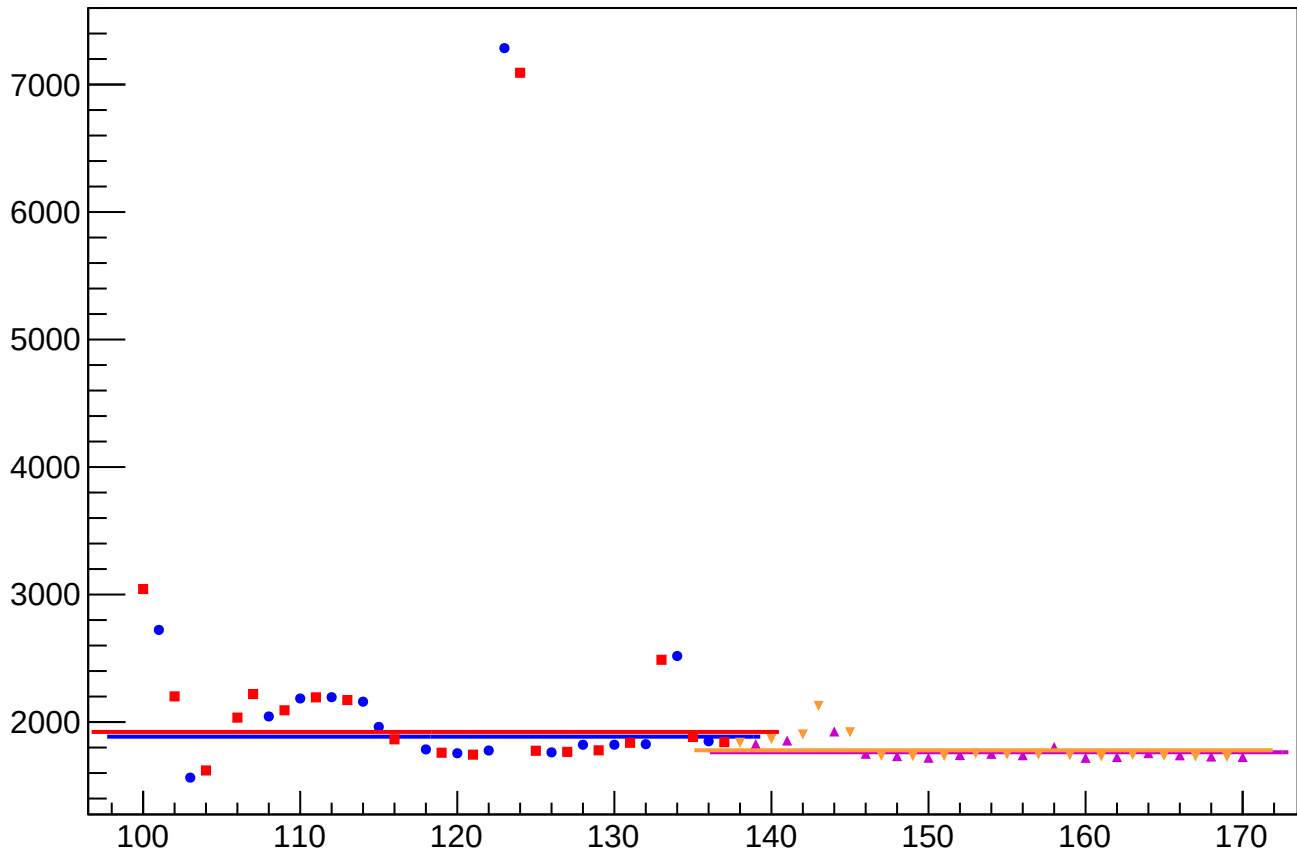
Right: -897.217 ± 522.617 χ^2/NDF : 32.5/35

In: -928.914 ± 414.069 χ^2/NDF : 26.4/32

Out: 133.555 ± 413.920 χ^2/NDF : 45.9/35

All: -397.488 ± 292.738 χ^2/NDF : 75.5/68

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1885.360+/-0.524 χ^2/NDF : 280429.0/16

Left Out: 1778.465+/-0.354 χ^2/NDF : 62955.4/16

Right Out: 1922.538+/-0.521 χ^2/NDF : 351512.1/18

Left In: 1762.967+/-0.353 χ^2/NDF : 24650.2/15

Left: 1770.705+/-0.250 χ^2/NDF : 88567.3/32

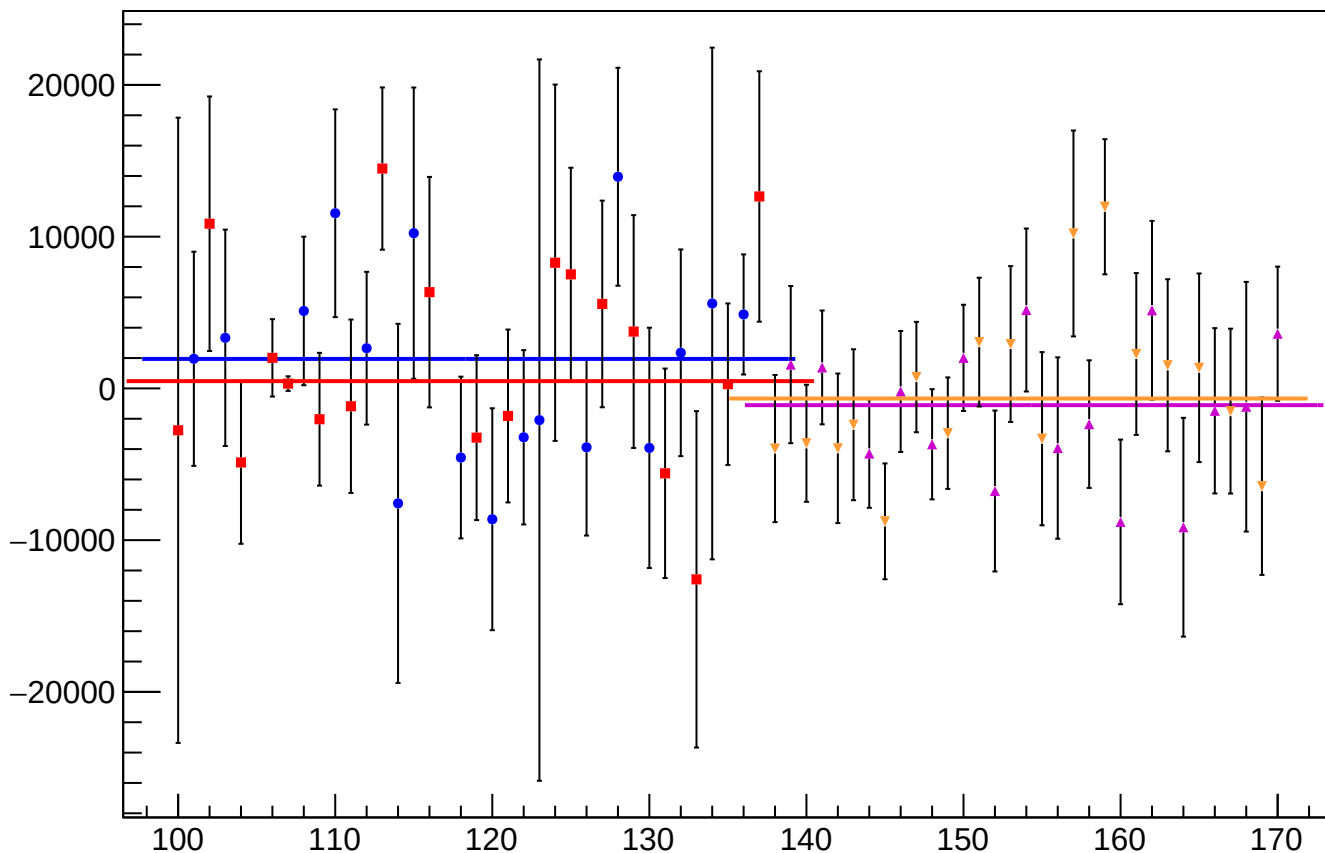
Right: 1904.057+/-0.369 χ^2/NDF : 634475.3/35

In: 1801.219+/-0.293 χ^2/NDF : 342623.7/32

Out: 1823.942+/-0.293 χ^2/NDF : 466860.8/35

All: 1812.590+/-0.207 χ^2/NDF : 812498.5/68

asym_atl1r2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1943.178+/-1581.060 χ^2/NDF : 13.2/16

Left Out: -665.637+/-1146.047 χ^2/NDF : 20.3/16

Right Out: 478.828+/-453.684 χ^2/NDF : 18.1/18

Left In: -1103.390+/-1159.908 χ^2/NDF : 11.2/15

Left: -881.882+/-815.234 χ^2/NDF : 31.6/32

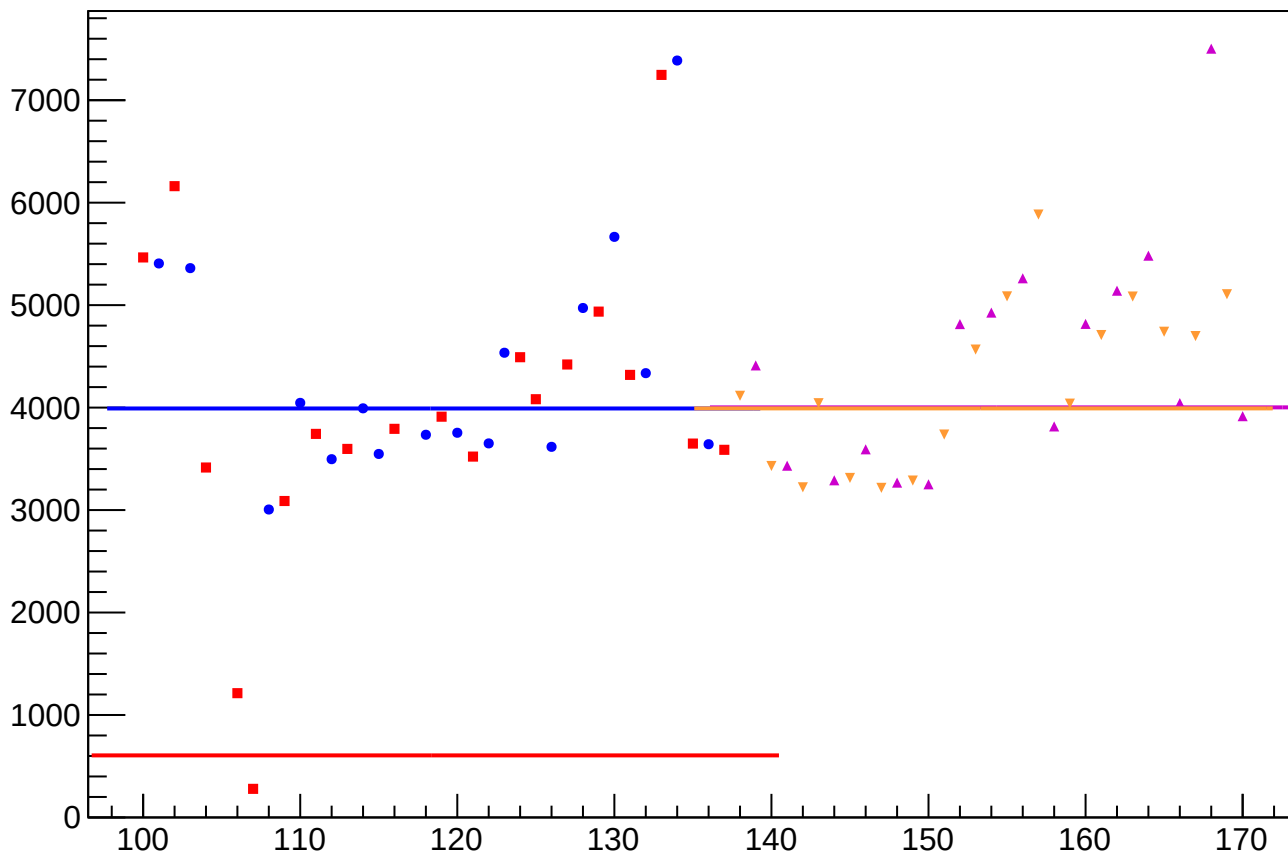
Right: 590.230+/-436.086 χ^2/NDF : 32.0/35

In: -37.417+/-935.225 χ^2/NDF : 26.8/32

Out: 323.775+/-421.834 χ^2/NDF : 39.2/35

All: 262.715+/-384.528 χ^2/NDF : 66.1/68

asym_atl1r2_dd_correction_rms vs Slug, Sign Corrected



Right In: 3991.416 $\pm$ 1.118 χ^2/NDF : 510782.7/16

Left Out: 3992.187 $\pm$ 0.810 χ^2/NDF : 827547.3/16

Right Out: 605.731 $\pm$ 0.321 χ^2/NDF : 10246585.0/18

Left In: 4002.184 $\pm$ 0.820 χ^2/NDF : 1098944.5/15

Left: 3997.125 $\pm$ 0.576 χ^2/NDF : 1926567.0/32

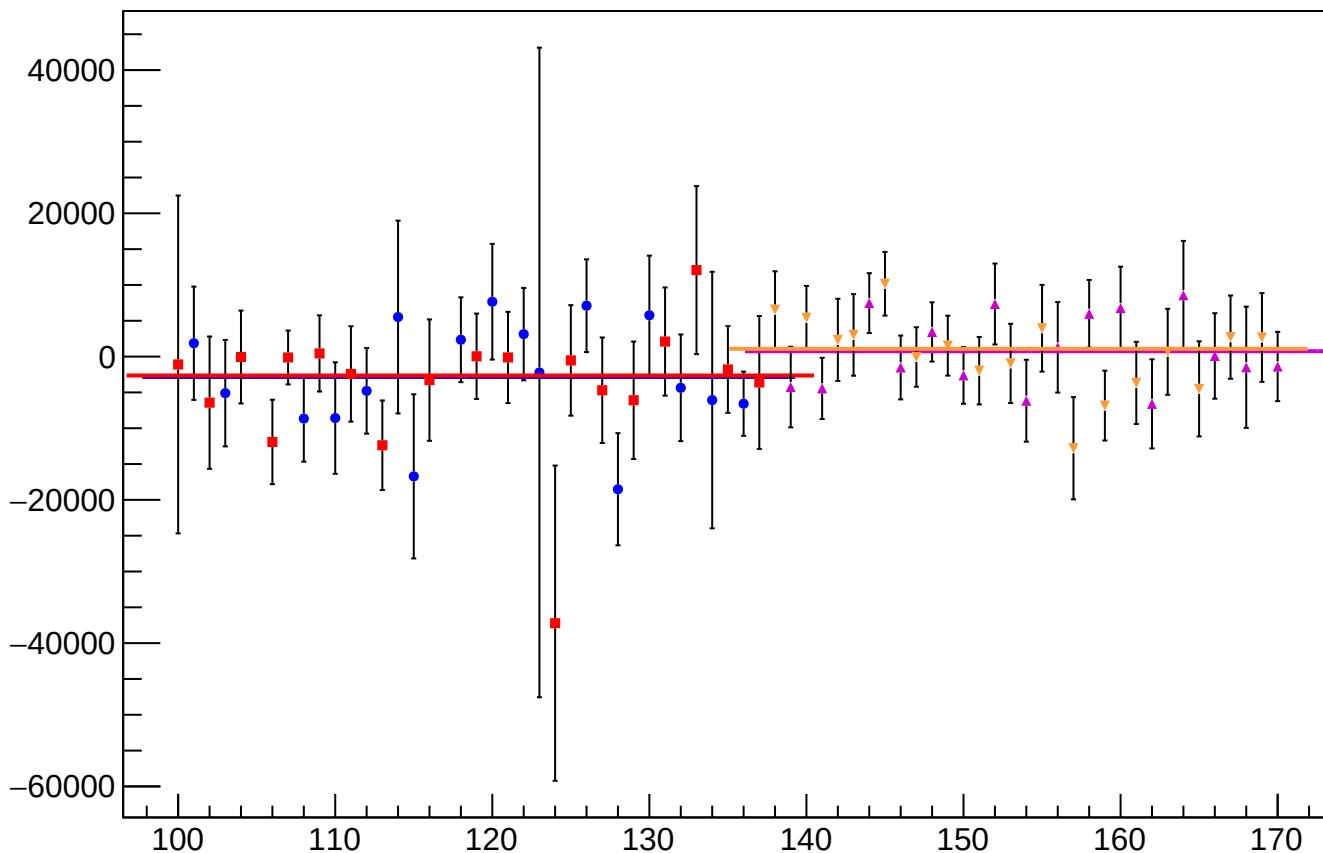
Right: 863.300 $\pm$ 0.308 χ^2/NDF : 19230863.1/35

In: 3998.417 $\pm$ 0.661 χ^2/NDF : 1609787.5/32

Out: 1064.530 $\pm$ 0.298 χ^2/NDF : 26171123.2/35

All: 1560.513 $\pm$ 0.272 χ^2/NDF : 44136182.4/6

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -2839.599+/-1786.019 χ^2/NDF : 15.4/16

Left Out: 1085.604+/-1274.362 χ^2/NDF : 15.2/16

Right Out: -2637.071+/-1575.105 χ^2/NDF : 11.2/18

Left In: 749.893+/-1284.416 χ^2/NDF : 14.1/15

Left: 919.068+/-904.644 χ^2/NDF : 29.3/32

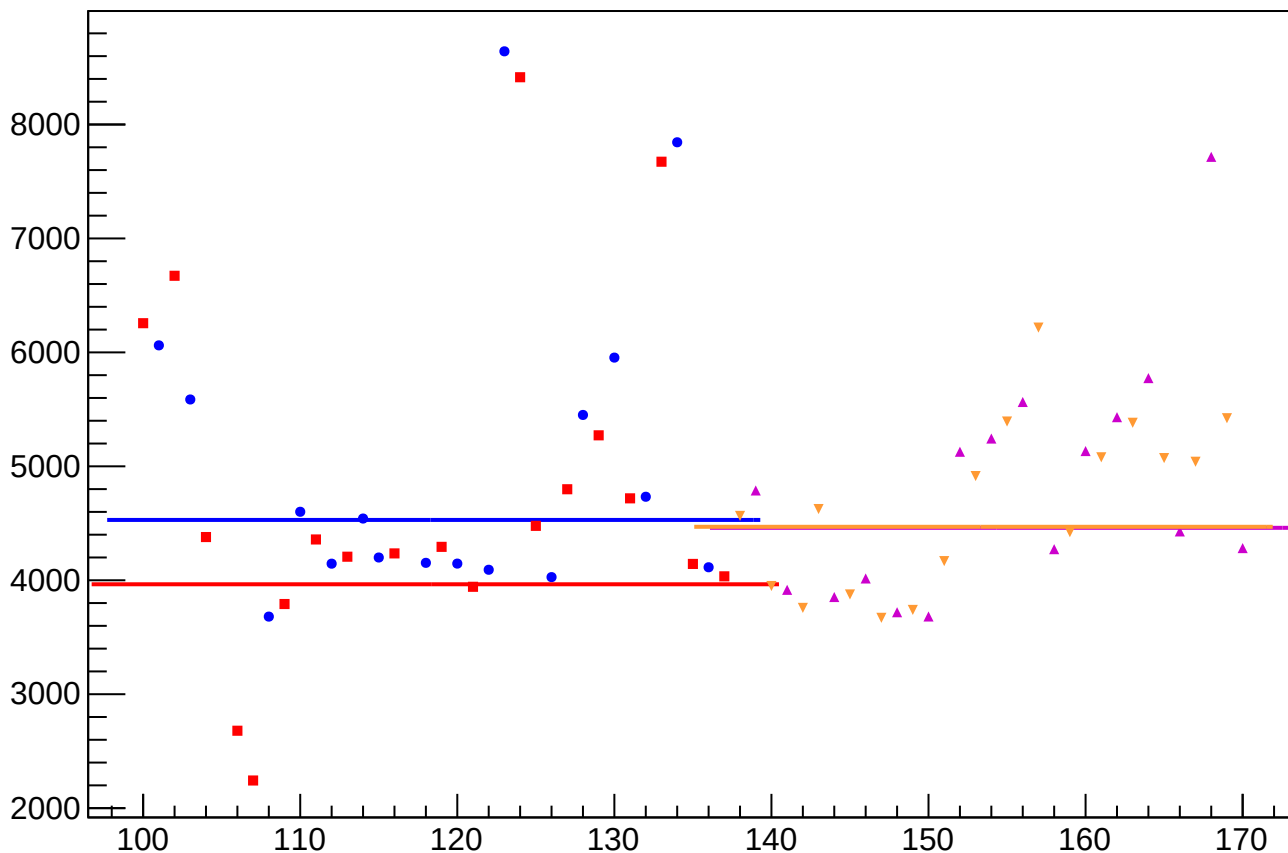
Right: -2725.676+/-1181.334 χ^2/NDF : 26.6/35

In: -473.697+/-1042.768 χ^2/NDF : 32.2/32

Out: -387.157+/-990.714 χ^2/NDF : 29.7/35

All: -428.214+/-718.238 χ^2/NDF : 62.0/68

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 4529.462 $\pm$ 1.263 χ^2/NDF : 389326.2/16

Left Out: 4469.296 $\pm$ 0.901 χ^2/NDF : 570871.0/16

Right Out: 3964.829 $\pm$ 1.107 χ^2/NDF : 1140409.6/18

Left In: 4460.269 $\pm$ 0.908 χ^2/NDF : 807468.5/15

Left: 4464.818 $\pm$ 0.640 χ^2/NDF : 1378389.3/32

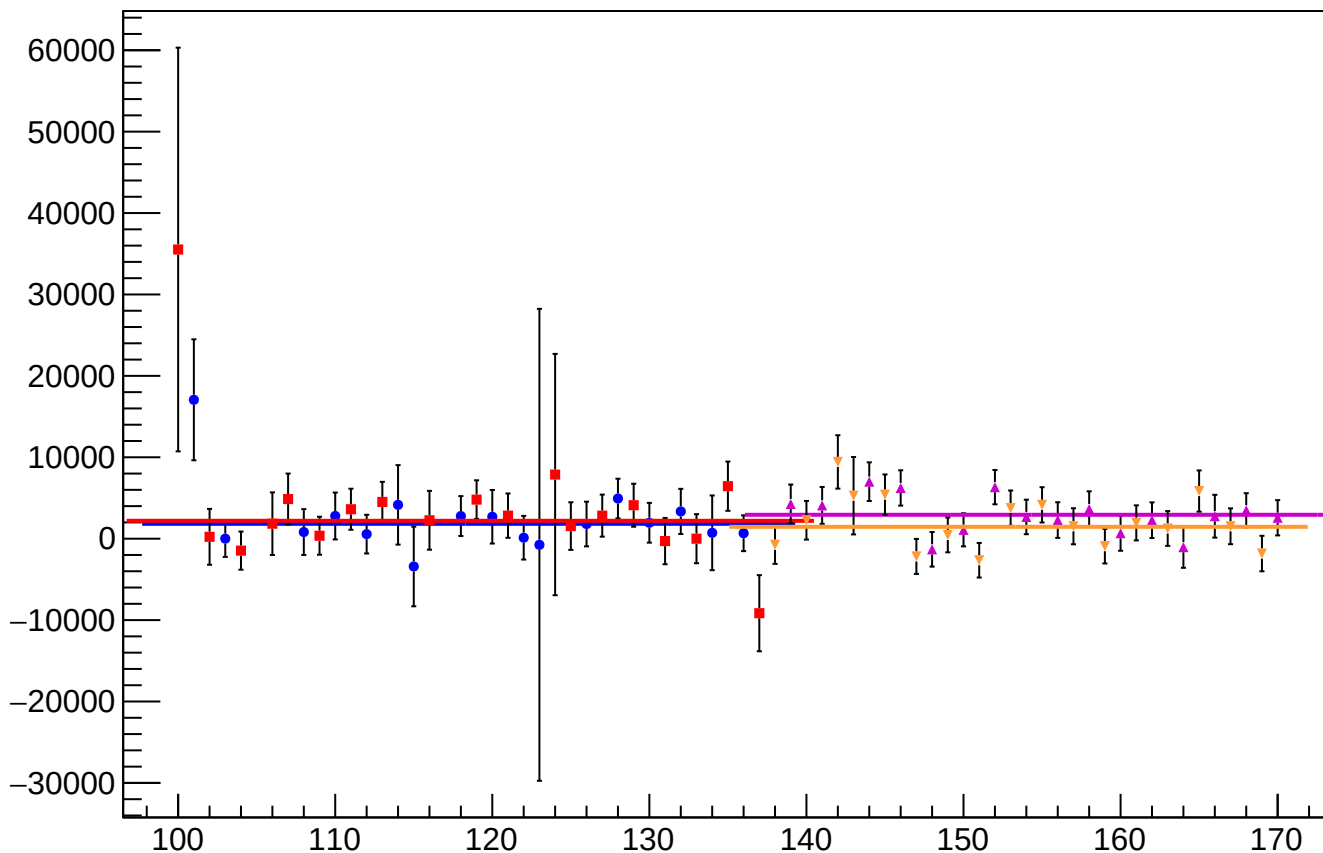
Right: 4210.073 $\pm$ 0.832 χ^2/NDF : 1642804.6/35

In: 4483.856 $\pm$ 0.737 χ^2/NDF : 1198773.2/32

Out: 4268.171 $\pm$ 0.699 χ^2/NDF : 1836232.8/35

All: 4370.222 $\pm$ 0.507 χ^2/NDF : 3080085.8/68

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1830.102 $\pm$ 711.335 χ^2 /NDF: 9.7/16

Left Out: 1459.421 $\pm$ 561.242 χ^2 /NDF:26.2/16

Right Out: 2198.063 $\pm$ 684.205 χ^2 /NDF: 18.3/18

Left In: 2935.014 $\pm$ 554.462 χ^2 /NDF:17.2/15

Left: 2206.184 $\pm$ 394.439 χ^2 /NDF: 46.8/32

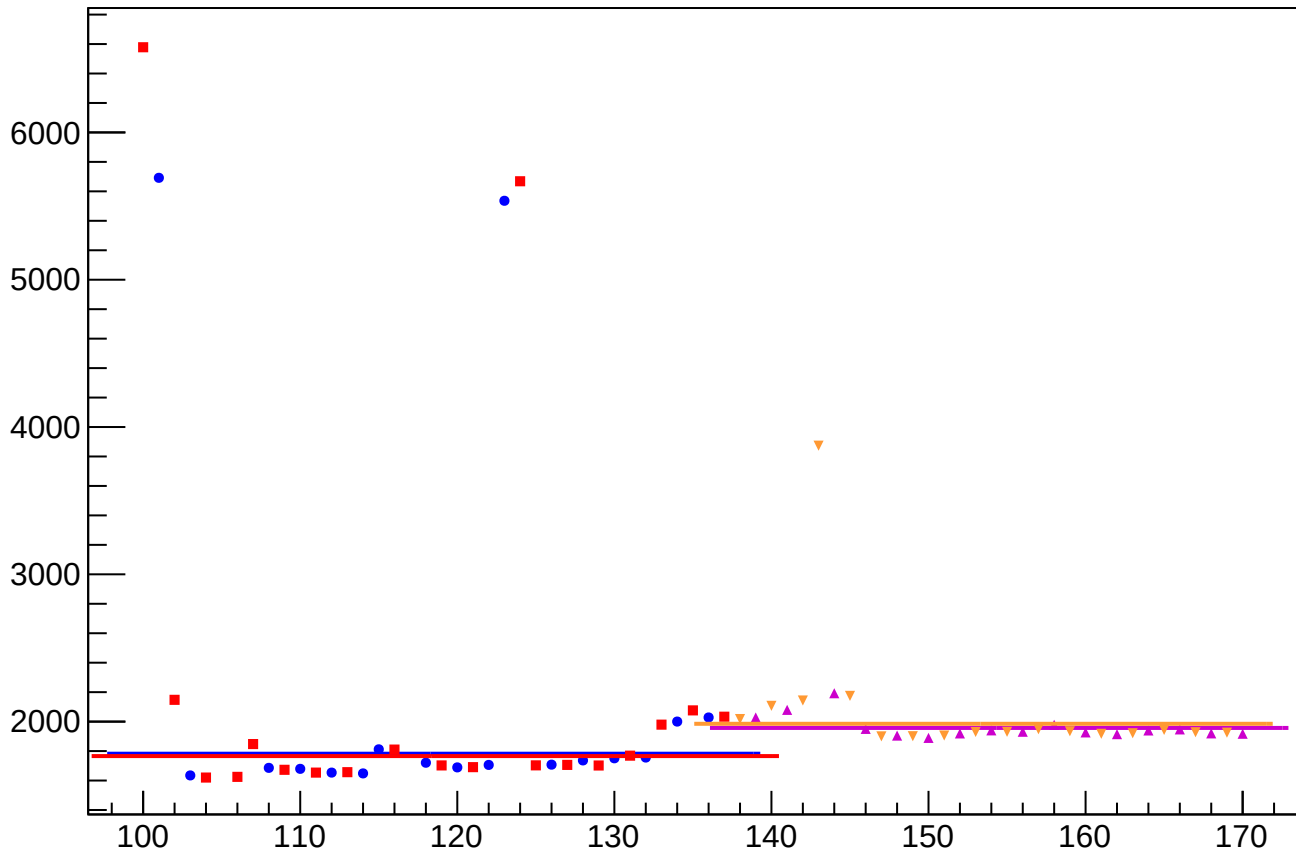
Right: 2021.233 $\pm$ 493.118 χ^2 /NDF: 28.2/35

In: 2517.420 $\pm$ 437.308 χ^2 /NDF:28.3/32

Out: 1756.520 $\pm$ 433.930 χ^2 /NDF:45.2/35

All: 2134.020 $\pm$ 308.022 χ^2 /NDF: 75.1/68

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1782.137+/-0.503 χ^2/NDF : 645188.8/16

Left Out: 1985.232+/-0.397 χ^2/NDF : 358169.6/16

Right Out: 1765.967+/-0.480 χ^2/NDF : 306798.2/18

Left In: 1957.082+/-0.392 χ^2/NDF : 34543.4/15

Left: 1970.986+/-0.279 χ^2/NDF : 395259.2/32

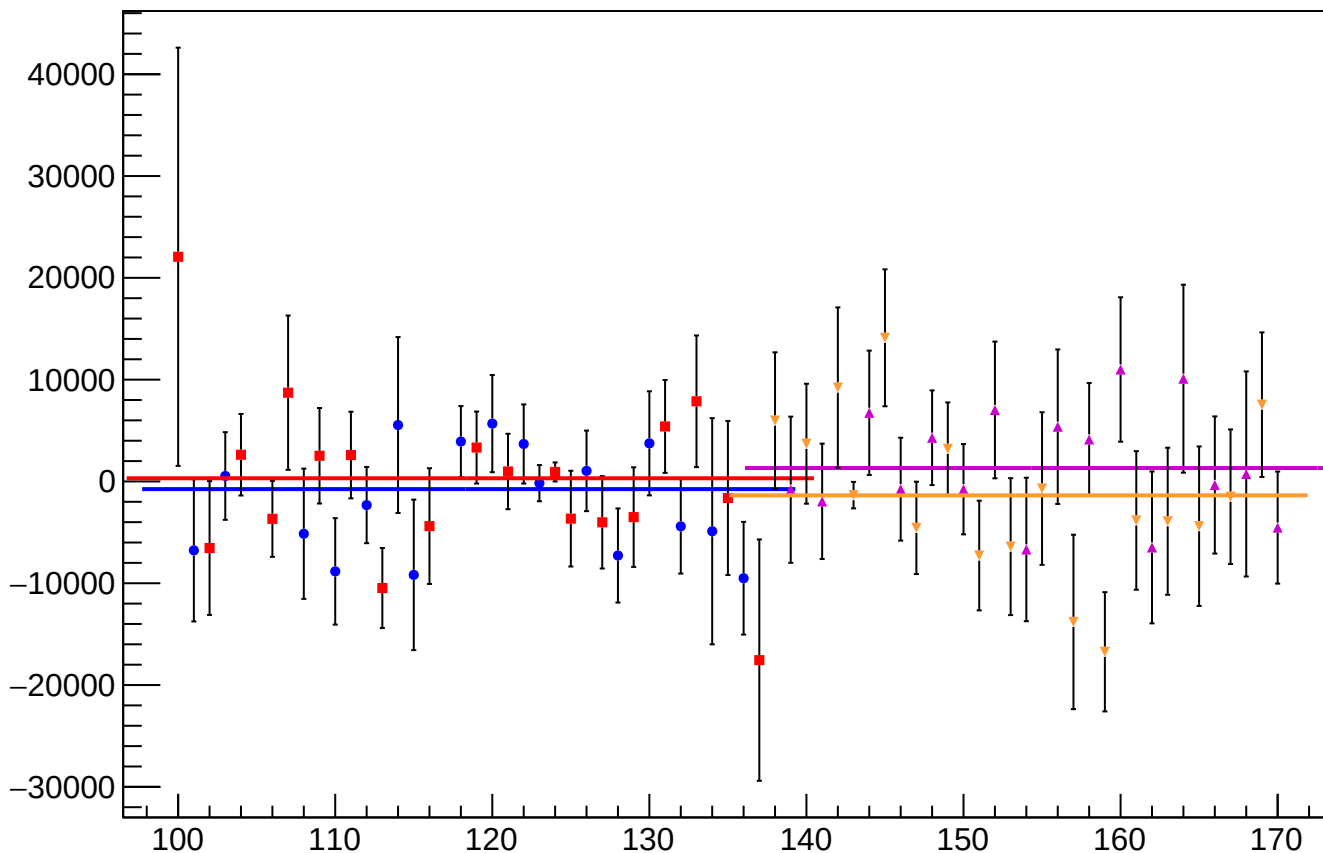
Right: 1773.682+/-0.347 χ^2/NDF : 952527.4/35

In: 1890.962+/-0.309 χ^2/NDF : 754983.6/32

Out: 1896.313+/-0.306 χ^2/NDF : 788759.9/35

All: 1893.666+/-0.217 χ^2/NDF : 1543894.8/68

asym_atr1l2_avg_correction_mean vs Slug, Sign Corrected



Right In: -753.428 ± 1008.523 $\chi^2/\text{NDF}: 16.9/16$

Left Out: -1364.169 ± 1002.229 $\chi^2/\text{NDF}: 23.3/16$

Right Out: 311.405 ± 725.132 $\chi^2/\text{NDF}: 22.0/18$

Left In: 1317.392 ± 1542.332 $\chi^2/\text{NDF}: 9.6/15$

Left: -568.033 ± 840.384 $\chi^2/\text{NDF}: 35.0/32$

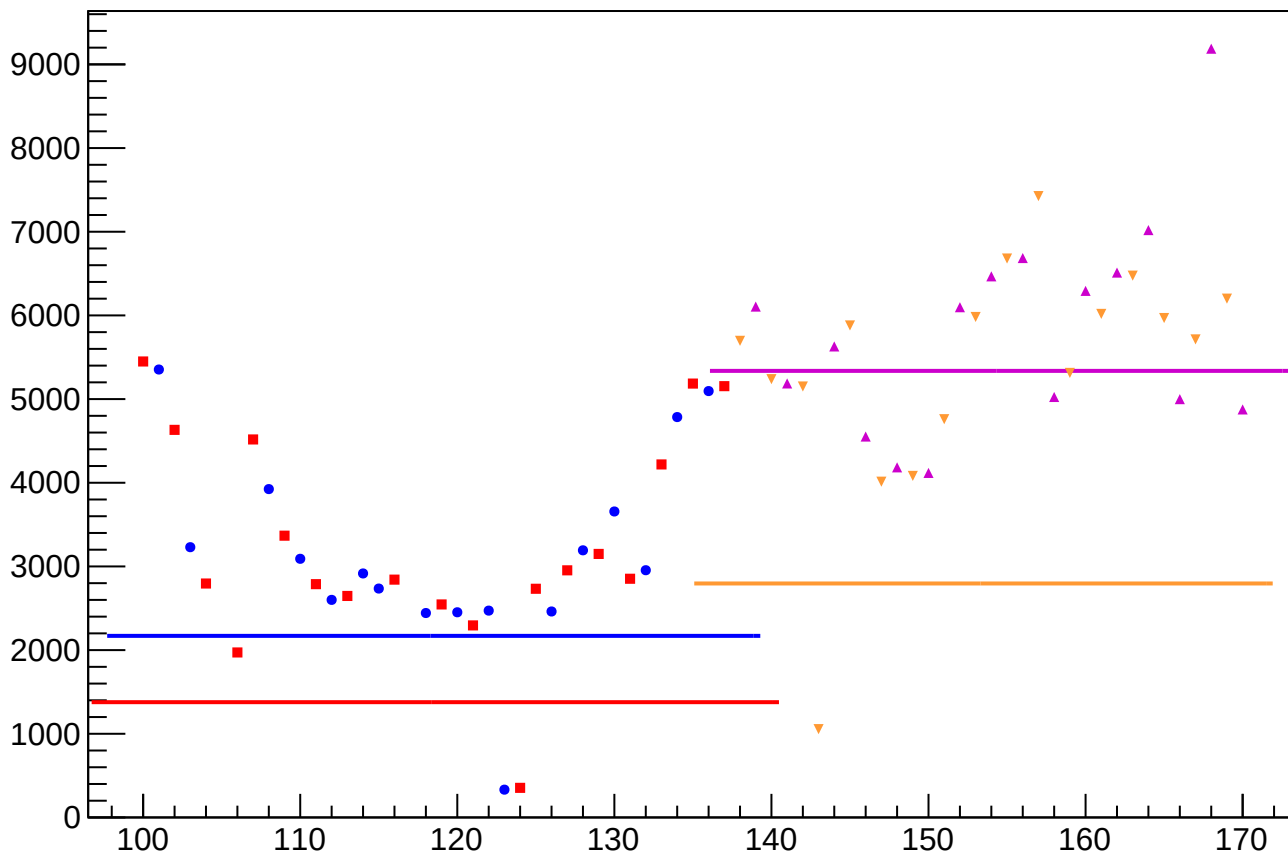
Right: -51.479 ± 588.747 $\chi^2/\text{NDF}: 39.7/35$

In: -133.190 ± 844.084 $\chi^2/\text{NDF}: 27.8/32$

Out: -264.336 ± 587.487 $\chi^2/\text{NDF}: 47.1/35$

All: -221.538 ± 482.192 $\chi^2/\text{NDF}: 75.0/68$

asym_atr1l2_avg_correction_rms vs Slug, Sign Corrected



Right In: 2170.242 $\pm$ 0.713 χ^2 /NDF: 3973725.5/16

Left Out: 2796.320 $\pm$ 0.709 χ^2 /NDF: 9560427.3/16

Right Out: 1377.716 $\pm$ 0.513 χ^2 /NDF: 6847297.6/18

Left In: 5337.075 $\pm$ 1.091 χ^2 /NDF: 961491.2/15

Left: 3550.652 $\pm$ 0.594 χ^2 /NDF: 14338031.4/32

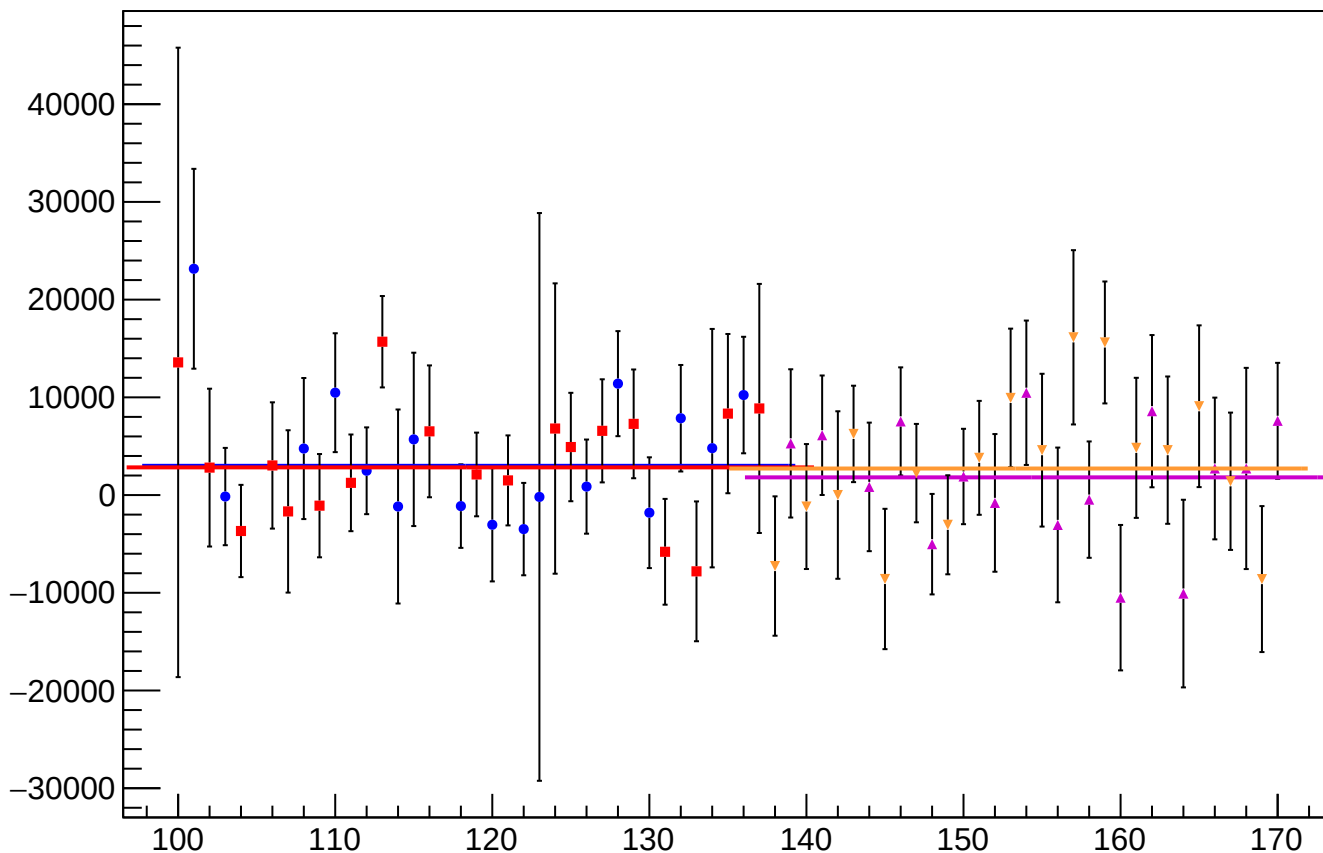
Right: 1647.801 $\pm$ 0.416 χ^2 /NDF: 11635181.2/35

In: 3118.750 $\pm$ 0.597 χ^2 /NDF: 10841638.4/32

Out: 1865.160 $\pm$ 0.415 χ^2 /NDF: 19037880.0/35

All: 2274.254 $\pm$ 0.341 χ^2 /NDF: 32851262.8/6

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2992.806 $\pm$ 1447.211 χ^2 /NDF: 15.7/16

Left Out: 2716.724 $\pm$ 1600.465 χ^2 /NDF:17.5/16

Right Out: 2833.408 $\pm$ 1379.110 χ^2 /NDF: 17.7/18

Left In: 1811.918 $\pm$ 1656.109 χ^2 /NDF:11.6/15

Left: 2279.777 $\pm$ 1150.869 χ^2 /NDF: 29.2/32

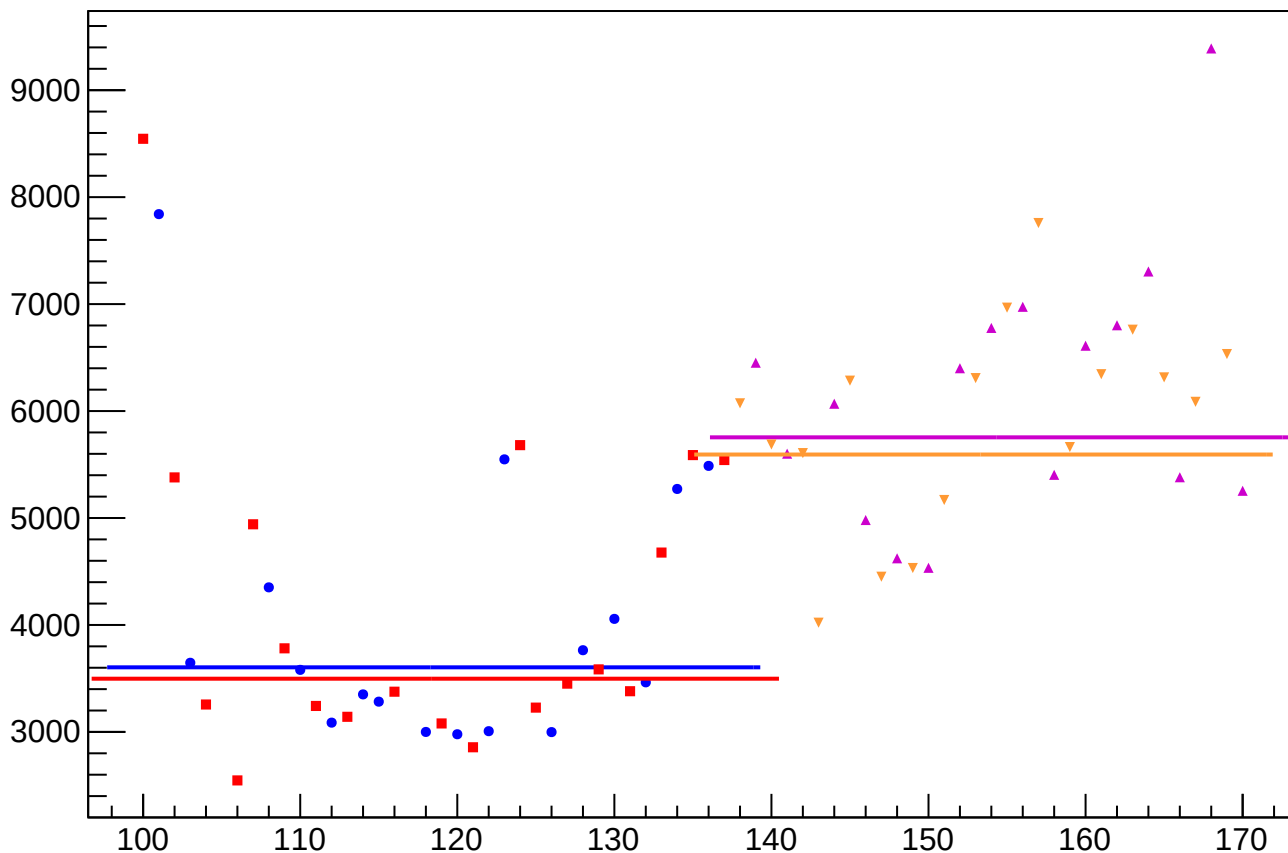
Right: 2909.269 $\pm$ 998.385 χ^2 /NDF: 33.4/35

In: 2481.495 $\pm$ 1089.751 χ^2 /NDF:27.6/32

Out: 2783.687 $\pm$ 1044.746 χ^2 /NDF:35.2/35

All: 2638.960 $\pm$ 754.156 χ^2 /NDF: 62.8/68

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 3603.930+/-1.023 χ^2/NDF : 784674.5/16

Left Out: 5593.577+/-1.132 χ^2/NDF : 759022.4/16

Right Out: 3497.586+/-0.962 χ^2/NDF : 661898.6/18

Left In: 5754.235+/-1.171 χ^2/NDF : 776872.5/15

Left: 5671.162+/-0.814 χ^2/NDF : 1545627.2/32

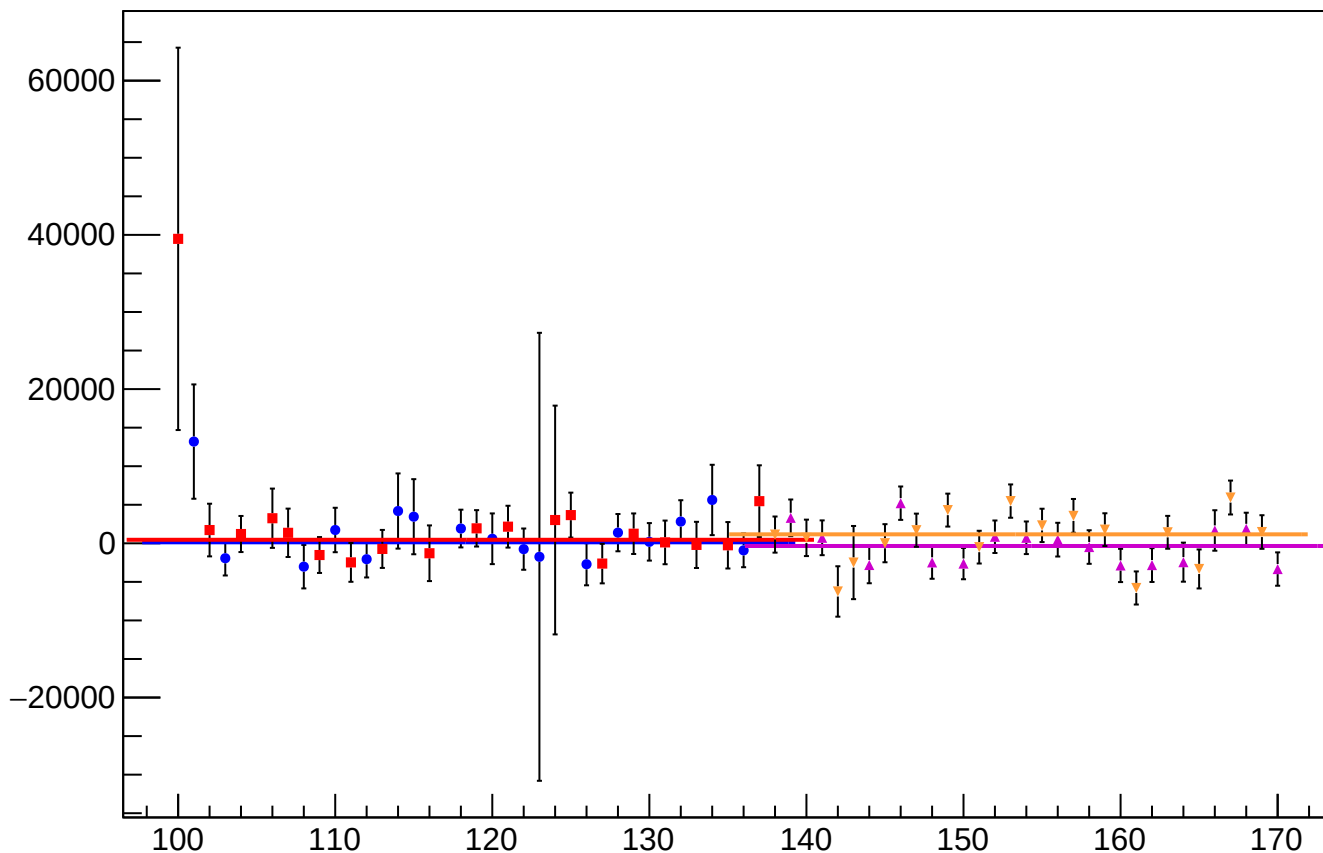
Right: 3547.455+/-0.701 χ^2/NDF : 1452308.2/35

In: 4534.982+/-0.771 χ^2/NDF : 3473364.0/32

Out: 4376.407+/-0.733 χ^2/NDF : 3412870.2/35

All: 4451.714+/-0.531 χ^2/NDF : 6908472.1/68

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 130.913+/-709.207 χ^2/NDF : 12.2/16

Left Out: 1166.300+/-560.006 χ^2/NDF :32.8/16

Right Out: 459.034+/-681.841 χ^2/NDF : 10.7/18

Left In: -345.387+/-553.497 χ^2/NDF :20.2/15

Left: 401.620+/-393.663 χ^2/NDF : 56.6/32

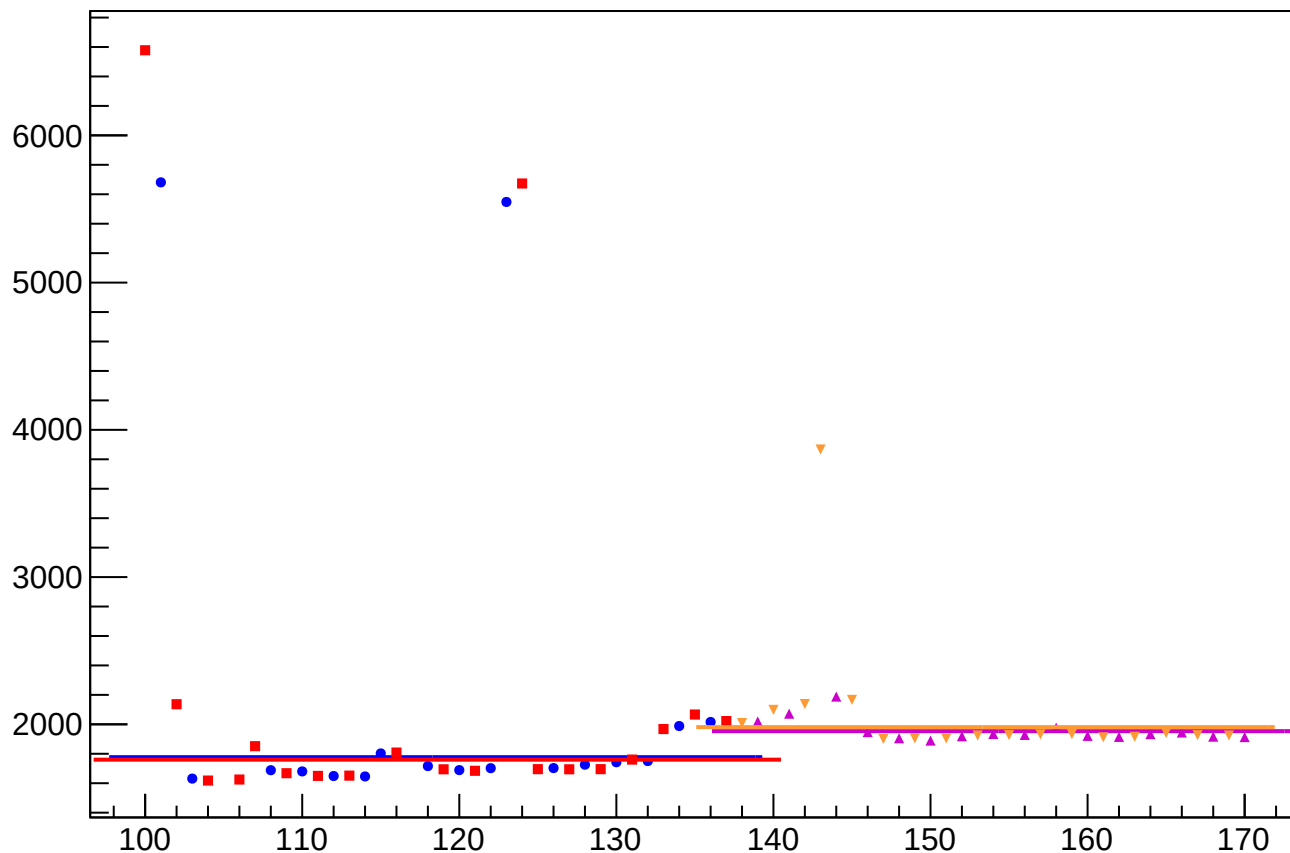
Right: 301.426+/-491.524 χ^2/NDF : 23.0/35

In: -165.092+/-436.339 χ^2/NDF :32.6/32

Out: 881.394+/-432.756 χ^2/NDF :44.1/35

All: 362.467+/-307.264 χ^2/NDF : 79.7/68

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1776.879+/-0.501 χ^2 /NDF: 643576.8/16

Left Out: 1980.999+/-0.396 χ^2 /NDF: 356496.2/16

Right Out: 1759.990+/-0.479 χ^2 /NDF: 306154.6/18

Left In: 1953.736+/-0.391 χ^2 /NDF: 33493.0/15

Left: 1967.208+/-0.278 χ^2 /NDF: 392387.0/32

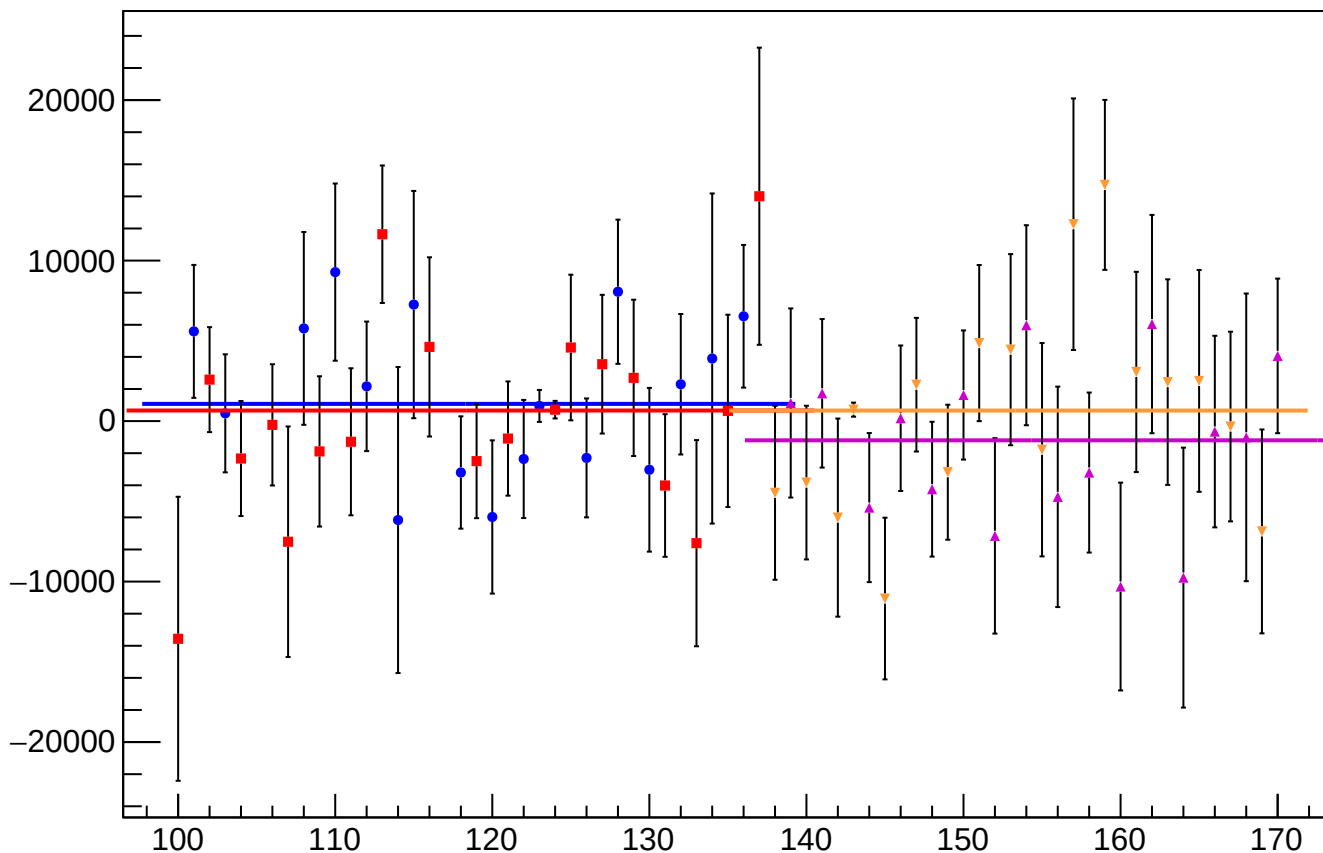
Right: 1768.045+/-0.346 χ^2 /NDF: 950324.7/35

In: 1886.790+/-0.309 χ^2 /NDF: 754364.0/32

Out: 1891.244+/-0.305 χ^2 /NDF: 789157.3/35

All: 1889.041+/-0.217 χ^2 /NDF: 1543626.7/68

asym_atr1l2_dd_correction_mean vs Slug, Sign Corrected



Right In: 1072.194+/-752.280 χ^2/NDF : 15.6/16

Left Out: 657.536+/-418.189 χ^2/NDF : 21.6/16

Right Out: 658.759+/-488.034 χ^2/NDF : 19.8/18

Left In: -1198.389+/-1351.468 χ^2/NDF : 10.6/15

Left: 495.361+/-399.500 χ^2/NDF : 34.0/32

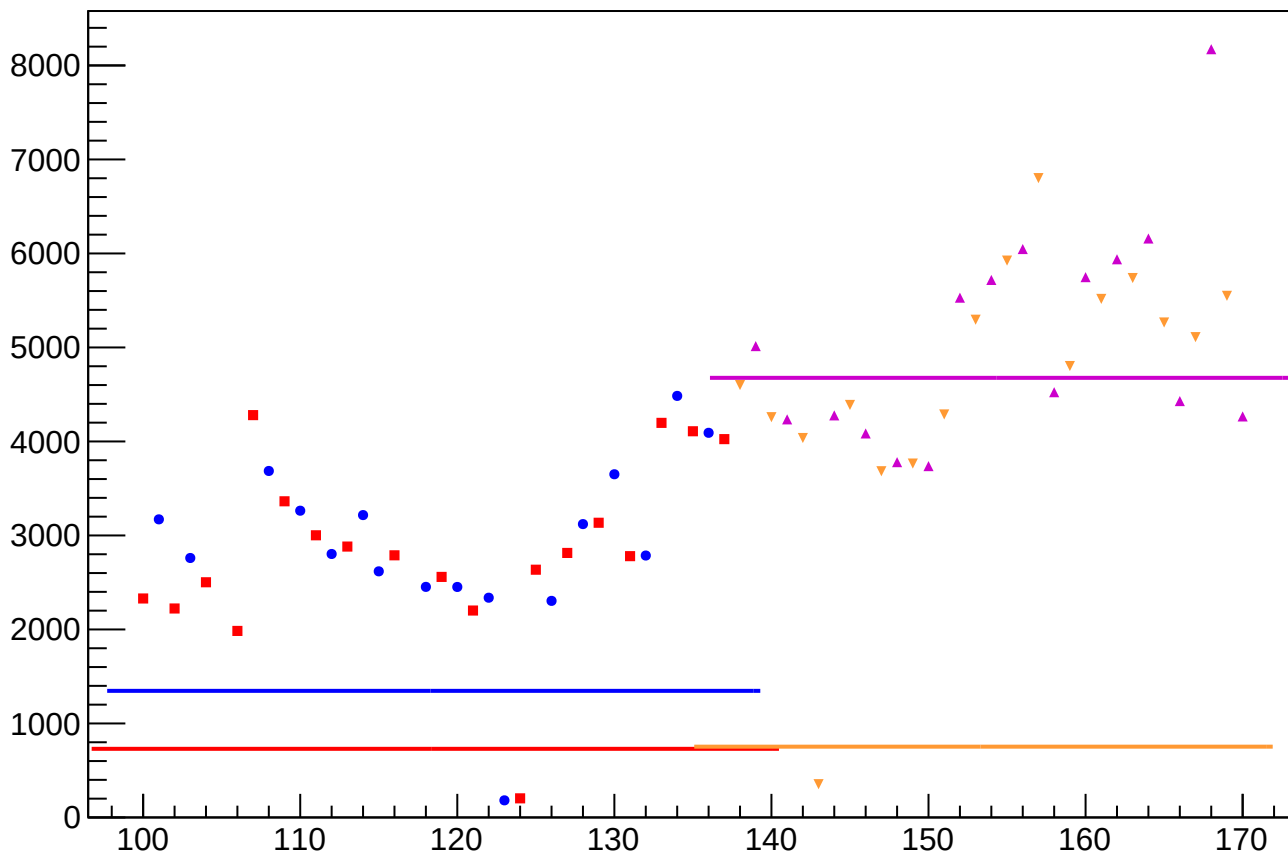
Right: 781.219+/-409.424 χ^2/NDF : 35.6/35

In: 535.083+/-657.308 χ^2/NDF : 28.3/32

Out: 658.053+/-317.553 χ^2/NDF : 41.4/35

All: 634.784+/-285.933 χ^2/NDF : 69.8/68

asym_atr1l2_dd_correction_rms vs Slug, Sign Corrected



Right In: 1346.836 $\pm$ 0.532 χ^2 /NDF: 6839112.6/16

Left Out: 753.112 $\pm$ 0.296 χ^2 /NDF: 18606944.4/16

Right Out: 730.119 $\pm$ 0.345 χ^2 /NDF: 9503127.2/18

Left In: 4676.714 $\pm$ 0.956 χ^2 /NDF: 963300.2/15

Left: 1095.965 $\pm$ 0.282 χ^2 /NDF: 34954529.1/32

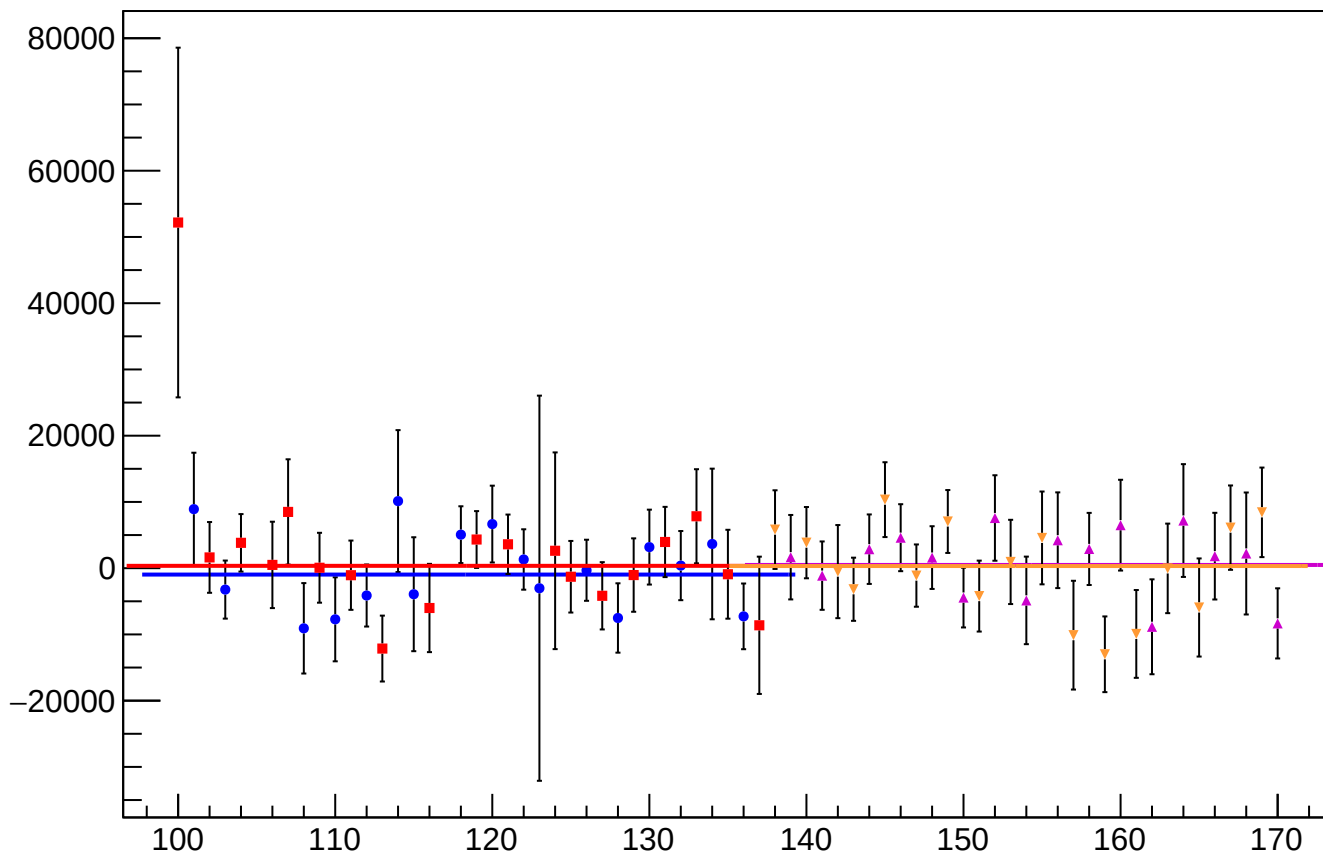
Right: 912.792 $\pm$ 0.290 χ^2 /NDF: 17288237.9/35

In: 2134.526 $\pm$ 0.465 χ^2 /NDF: 17071873.7/32

Out: 743.377 $\pm$ 0.225 χ^2 /NDF: 28112631.4/35

All: 1006.625 $\pm$ 0.202 χ^2 /NDF: 52447834.9/6

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -964.151 ± 1395.626 $\chi^2/\text{NDF}: 13.7/16$

Left Out: 323.283 ± 1438.866 $\chi^2/\text{NDF}: 20.6/16$

Right Out: 354.646 ± 1329.760 $\chi^2/\text{NDF}: 17.6/18$

Left In: 487.100 ± 1479.833 $\chi^2/\text{NDF}: 10.5/15$

Left: 402.892 ± 1031.611 $\chi^2/\text{NDF}: 31.1/32$

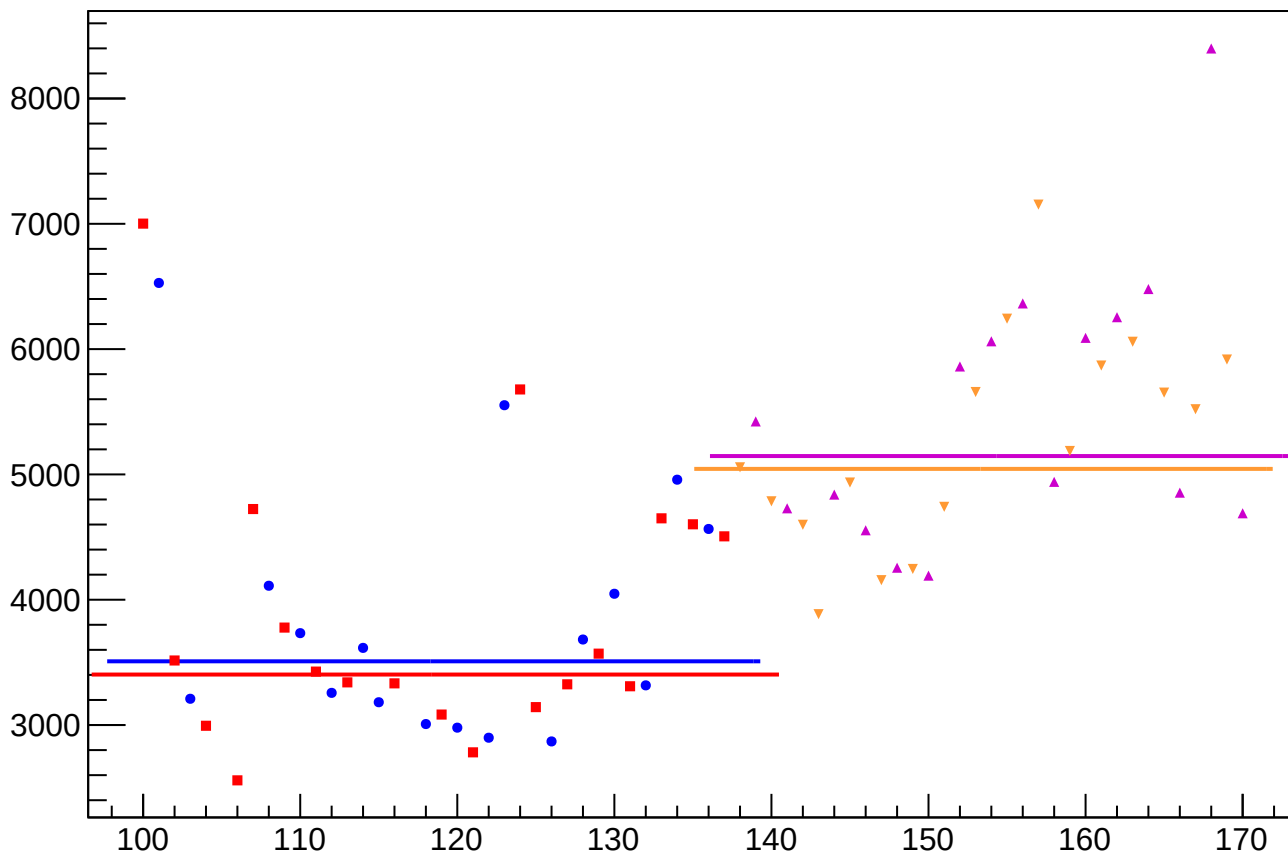
Right: -272.899 ± 962.726 $\chi^2/\text{NDF}: 31.8/35$

In: -280.989 ± 1015.321 $\chi^2/\text{NDF}: 24.8/32$

Out: 340.199 ± 976.579 $\chi^2/\text{NDF}: 38.2/35$

All: 41.682 ± 703.844 $\chi^2/\text{NDF}: 63.2/68$

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3508.483+/-0.987 χ^2/NDF : 562197.7/16

Left Out: 5044.169+/-1.017 χ^2/NDF : 610619.9/16

Right Out: 3402.883+/-0.928 χ^2/NDF : 428556.1/18

Left In: 5146.570+/-1.046 χ^2/NDF : 737396.5/15

Left: 5093.933+/-0.729 χ^2/NDF : 1352939.2/32

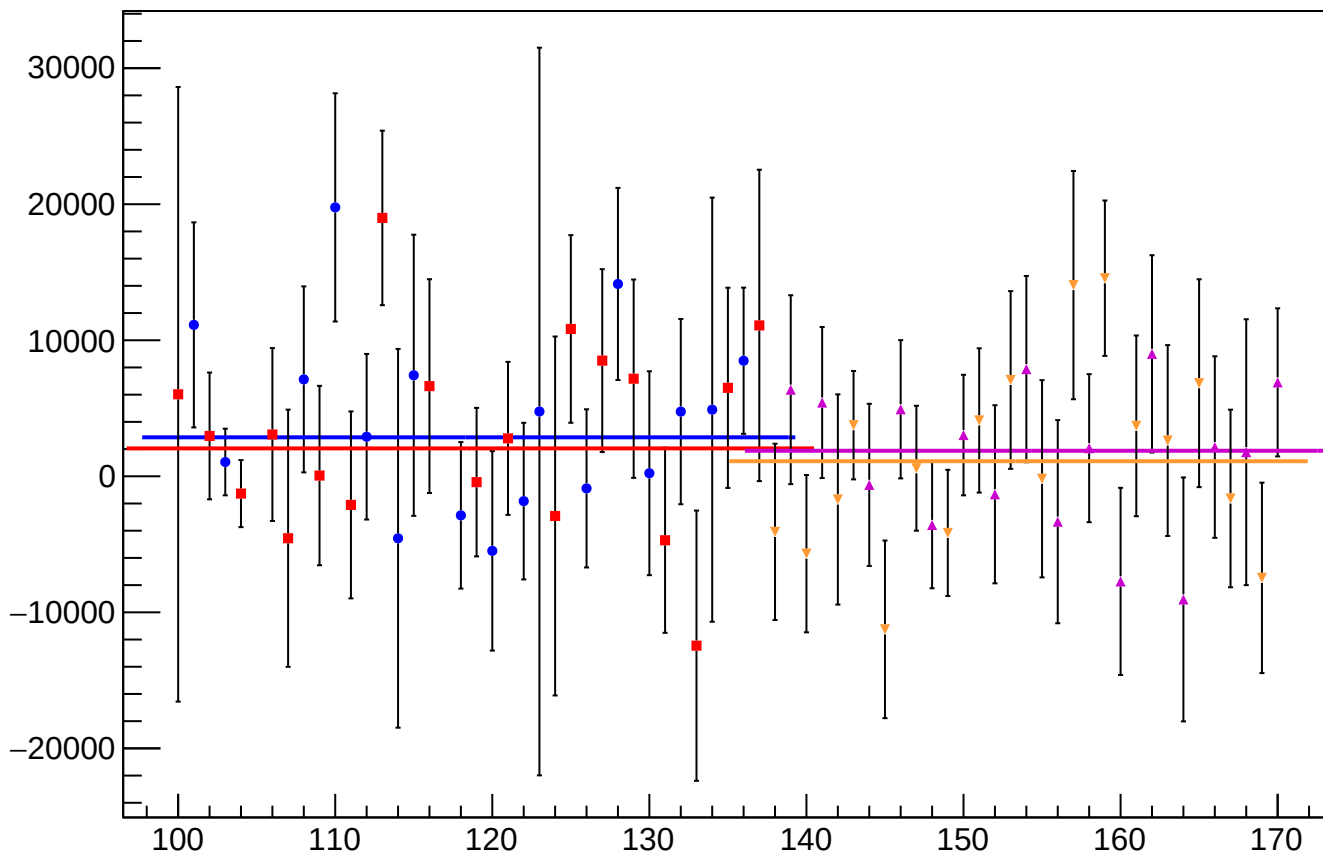
Right: 3452.447+/-0.676 χ^2/NDF : 996829.8/35

In: 4279.592+/-0.718 χ^2/NDF : 2596623.8/32

Out: 4148.333+/-0.686 χ^2/NDF : 2459547.7/35

All: 4210.948+/-0.496 χ^2/NDF : 5073652.4/68

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2864.770+/-1452.658 χ^2/NDF : 14.1/16

Left Out: 1108.910+/-1446.904 χ^2/NDF : 19.0/16

Right Out: 2051.211+/-1381.577 χ^2/NDF : 17.7/18

Left In: 1876.893+/-1519.975 χ^2/NDF : 9.6/15

Left: 1473.998+/-1047.996 χ^2/NDF : 28.7/32

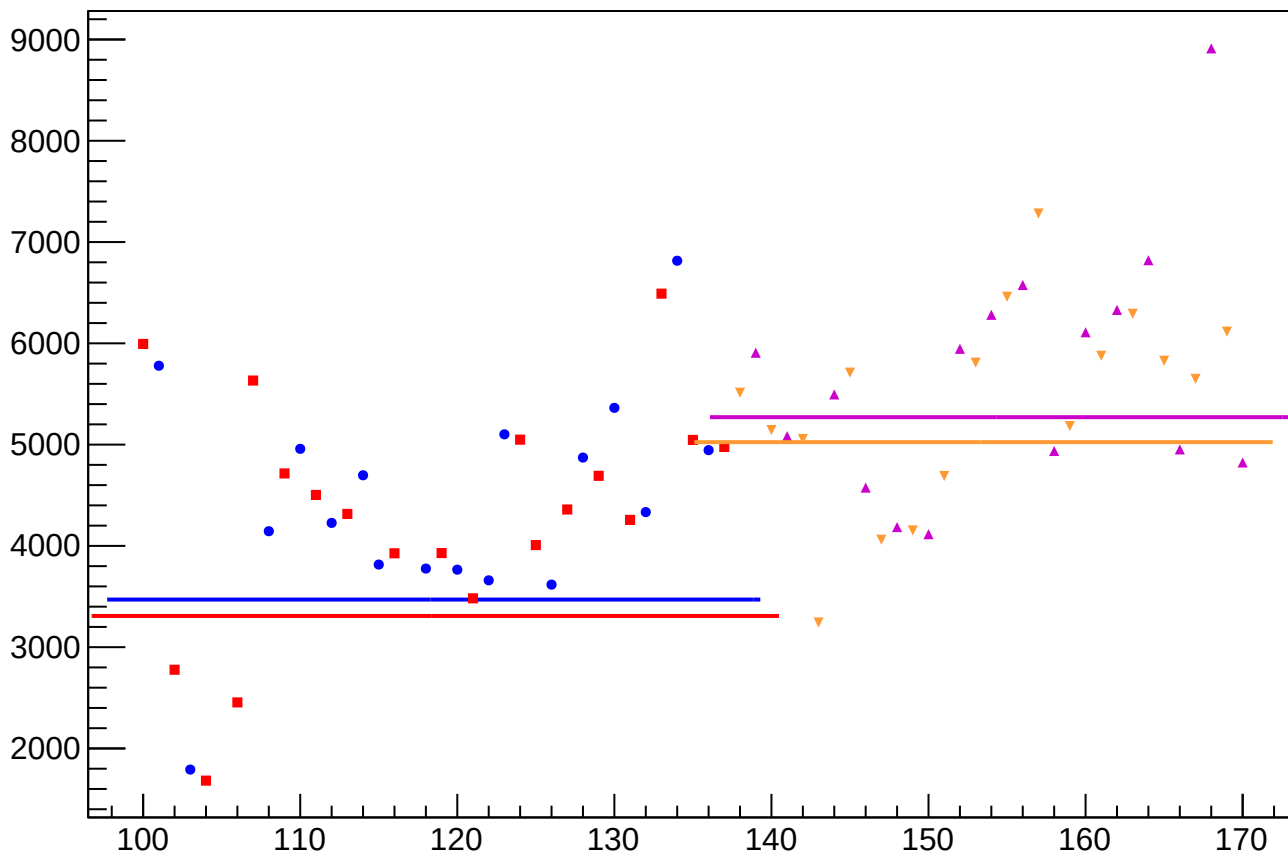
Right: 2437.600+/-1001.108 χ^2/NDF : 31.9/35

In: 2393.191+/-1050.176 χ^2/NDF : 23.8/32

Out: 1601.813+/-999.219 χ^2/NDF : 36.9/35

All: 1977.837+/-723.899 χ^2/NDF : 61.1/68

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3470.042 $\pm$ 1.027 χ^2 /NDF: 1760860.6/16

Left Out: 5024.393 $\pm$ 1.023 χ^2 /NDF:1041421.7/16

Right Out: 3308.243 $\pm$ 0.968 χ^2 /NDF: 1910782.0/18

Left In: 5270.945 $\pm$ 1.075 χ^2 /NDF:865426.6/15

Left: 5141.600 $\pm$ 0.741 χ^2 /NDF: 1934454.9/32

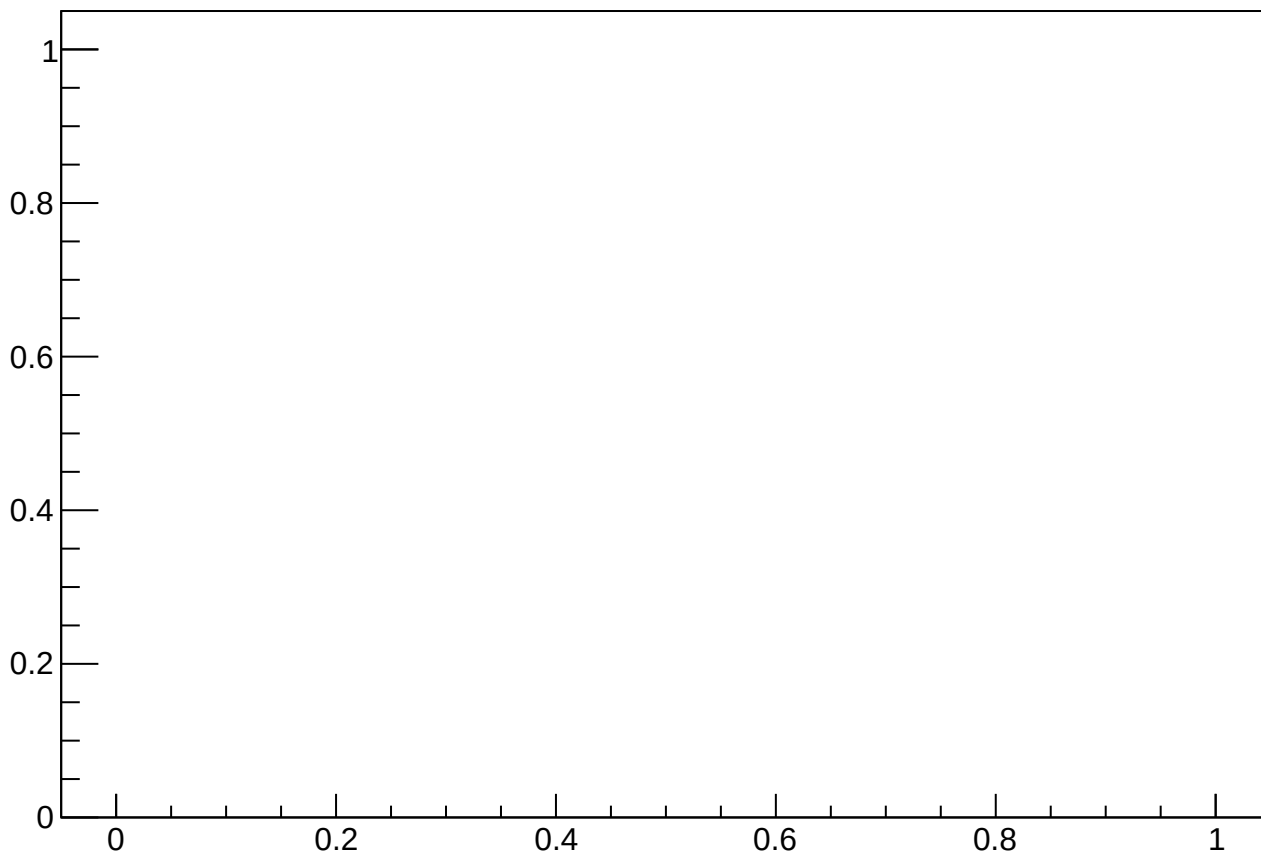
Right: 3384.349 $\pm$ 0.704 χ^2 /NDF: 3684784.1/35

In: 4329.710 $\pm$ 0.743 χ^2 /NDF:4093676.7/32

Out: 4118.847 $\pm$ 0.703 χ^2 /NDF:4436827.4/35

All: 4218.533 $\pm$ 0.511 χ^2 /NDF: 8573017.8/68

asym_atl_avg_atr_avg_avg_correction_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

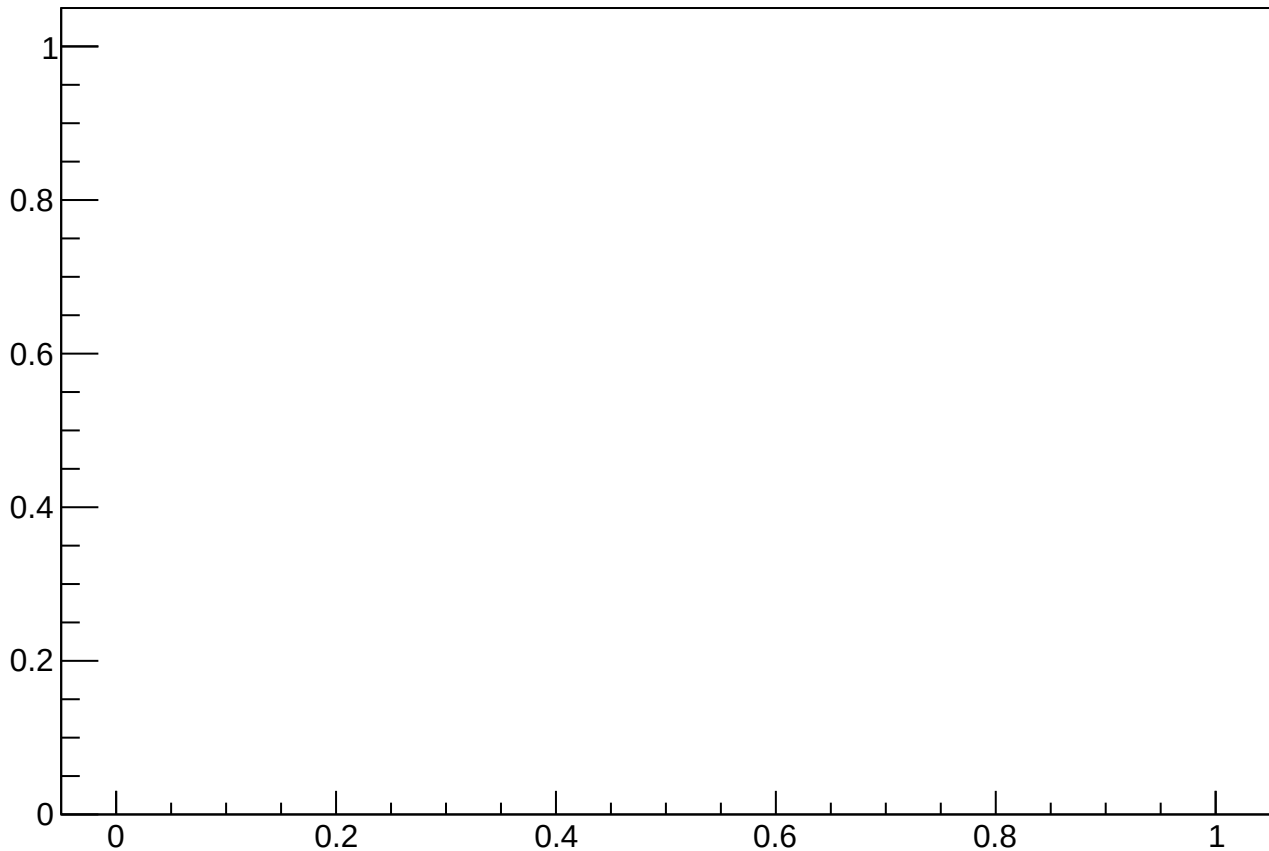
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

asym_atl_avg_atr_avg_avg_correction_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

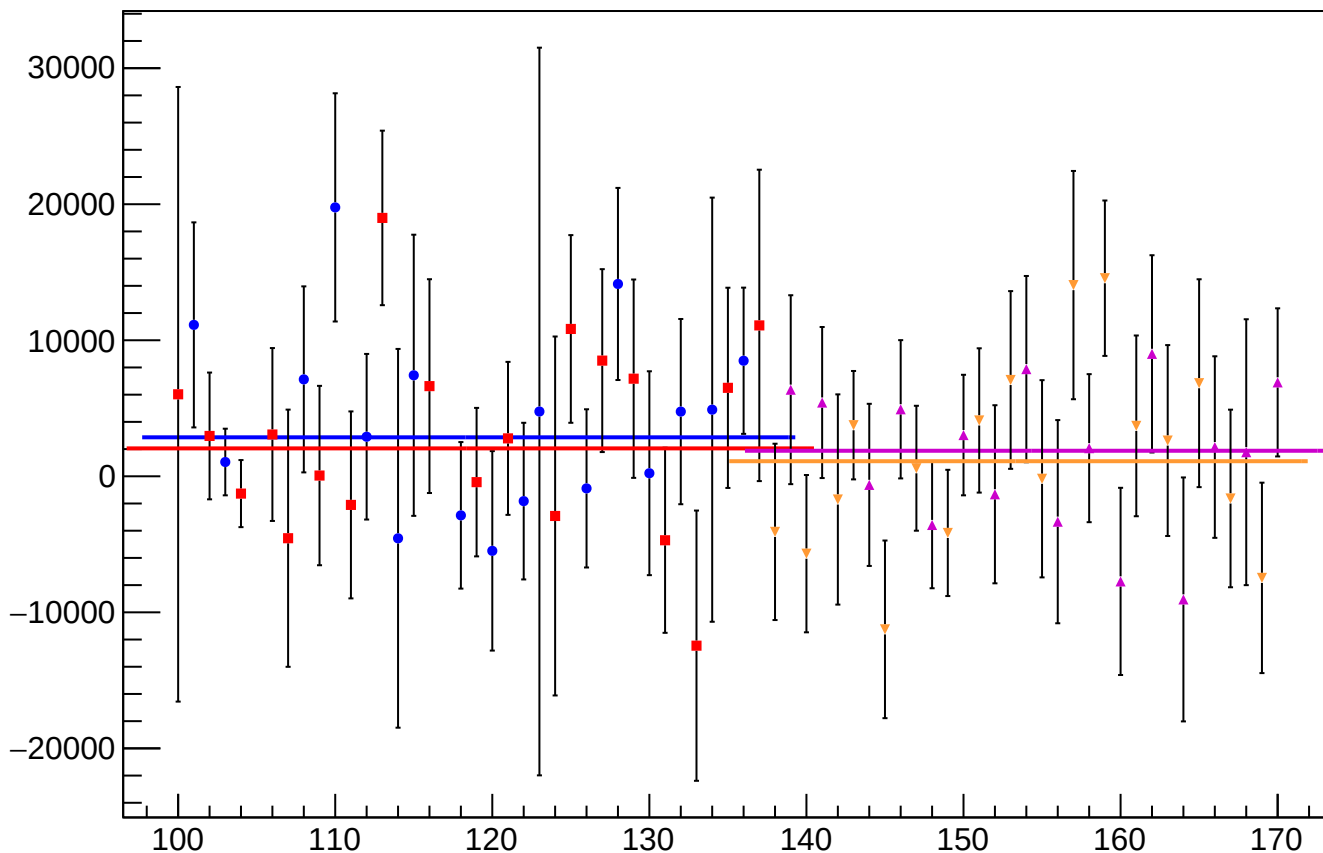
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

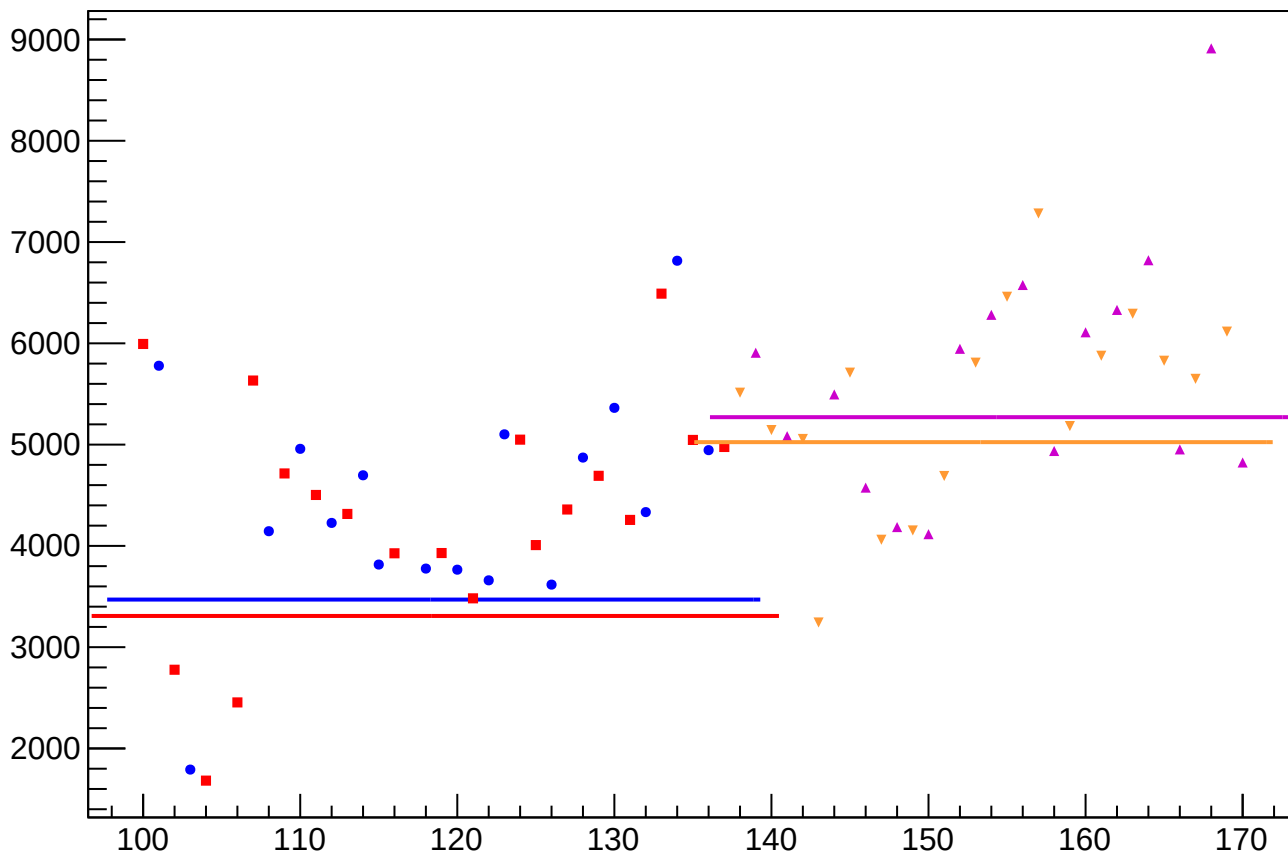
asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2864.770+/-1452.658 χ^2/NDF : 14.1/16
 Left Out: 1108.910+/-1446.904 χ^2/NDF : 19.0/16
 Right Out: 2051.211+/-1381.577 χ^2/NDF : 17.7/18
 Left In: 1876.893+/-1519.975 χ^2/NDF : 9.6/15

Left: 1473.998+/-1047.996 χ^2/NDF : 28.7/32
 Right: 2437.600+/-1001.108 χ^2/NDF : 31.9/35
 In: 2393.191+/-1050.176 χ^2/NDF : 23.8/32
 Out: 1601.813+/-999.219 χ^2/NDF : 36.9/35
 All: 1977.837+/-723.899 χ^2/NDF : 61.1/68

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3470.042 $\pm$ 1.027 χ^2 /NDF: 1760860.6/16

Left Out: 5024.393 $\pm$ 1.023 χ^2 /NDF:1041421.7/16

Right Out: 3308.243 $\pm$ 0.968 χ^2 /NDF: 1910782.0/18

Left In: 5270.945 $\pm$ 1.075 χ^2 /NDF:865426.6/15

Left: 5141.600 $\pm$ 0.741 χ^2 /NDF: 1934454.9/32

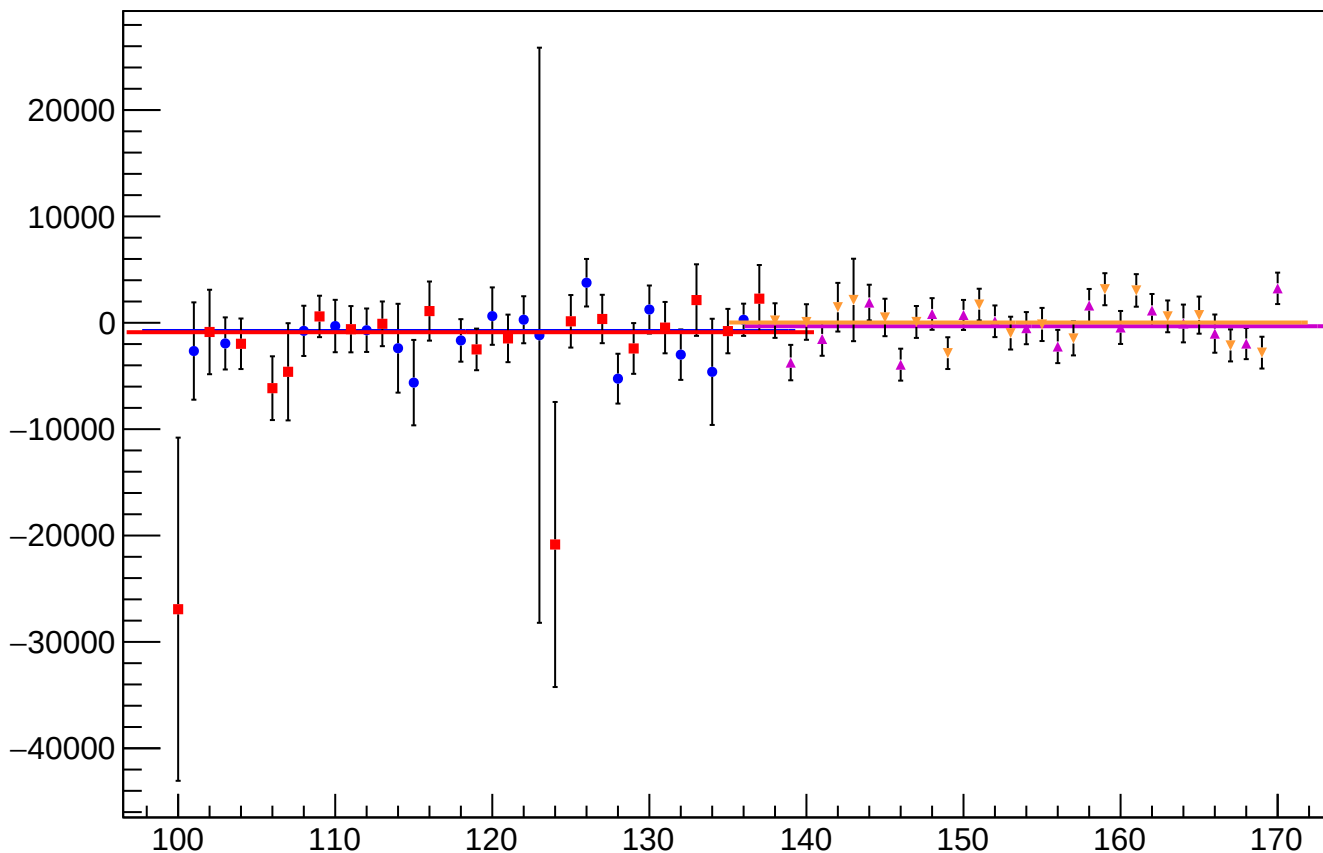
Right: 3384.349 $\pm$ 0.704 χ^2 /NDF: 3684784.1/35

In: 4329.710 $\pm$ 0.743 χ^2 /NDF:4093676.7/32

Out: 4118.847 $\pm$ 0.703 χ^2 /NDF:4436827.4/35

All: 4218.533 $\pm$ 0.511 χ^2 /NDF: 8573017.8/68

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -771.153+/-603.689 χ^2/NDF : 13.3/16

Left Out: 26.815+/-394.693 χ^2/NDF :21.2/16

Right Out: -885.145+/-595.053 χ^2/NDF : 13.5/18

Left In: -323.918+/-388.958 χ^2/NDF :24.8/15

Left: -151.118+/-277.040 χ^2/NDF : 46.5/32

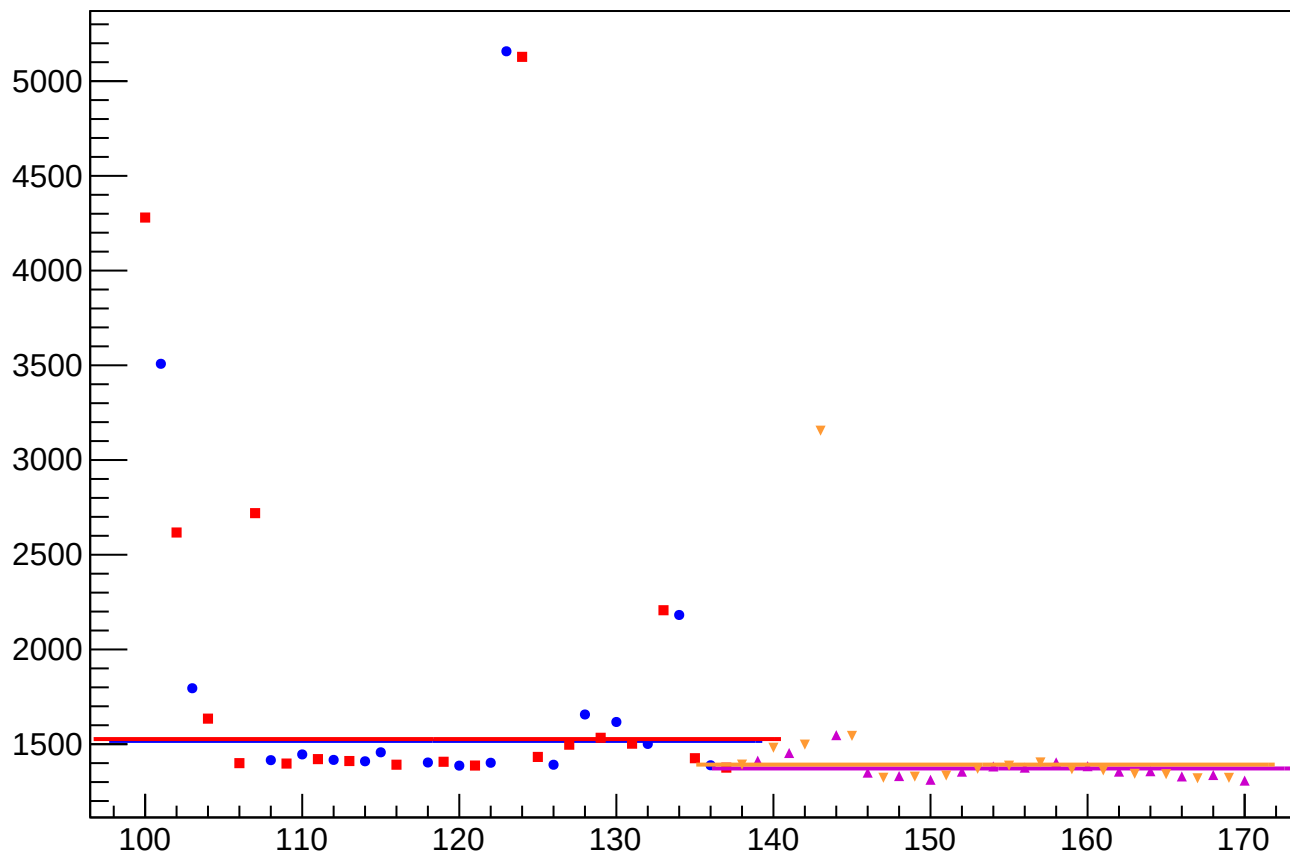
Right: -828.970+/-423.787 χ^2/NDF : 26.8/35

In: -455.113+/-326.968 χ^2/NDF :38.5/32

Out: -251.819+/-328.916 χ^2/NDF :36.4/35

All: -354.070+/-231.887 χ^2/NDF : 75.1/68

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1517.334+/-0.427 χ^2/NDF : 536662.7/16

Left Out: 1392.208+/-0.279 χ^2/NDF : 464008.5/16

Right Out: 1527.005+/-0.421 χ^2/NDF : 631684.2/18

Left In: 1371.793+/-0.275 χ^2/NDF : 41711.5/15

Left: 1381.851+/-0.196 χ^2/NDF : 508434.6/32

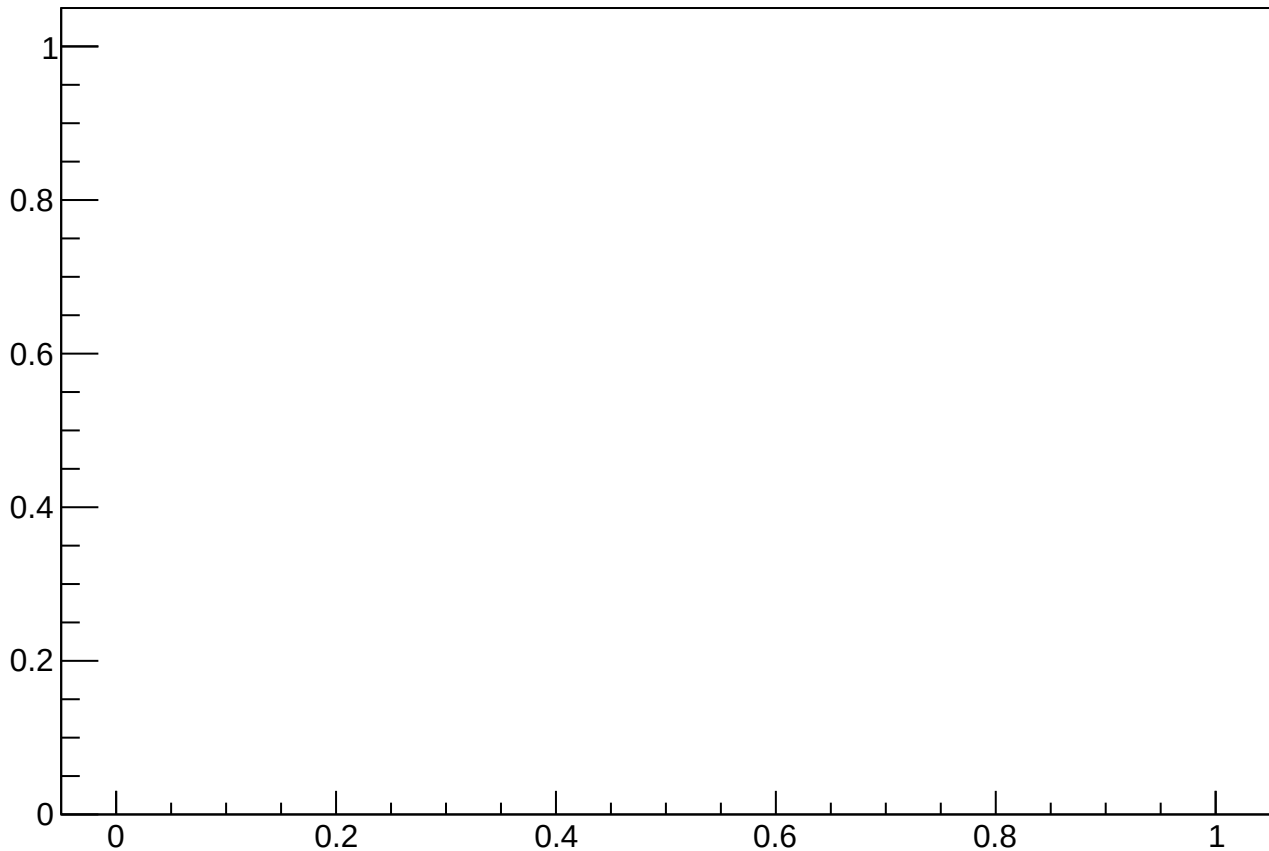
Right: 1522.239+/-0.300 χ^2/NDF : 1168607.3/35

In: 1414.487+/-0.231 χ^2/NDF : 660519.3/32

Out: 1433.394+/-0.233 χ^2/NDF : 1166967.1/35

All: 1423.884+/-0.164 χ^2/NDF : 1830810.0/68

asym_atl_avg_atr_avg_dd_correction_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

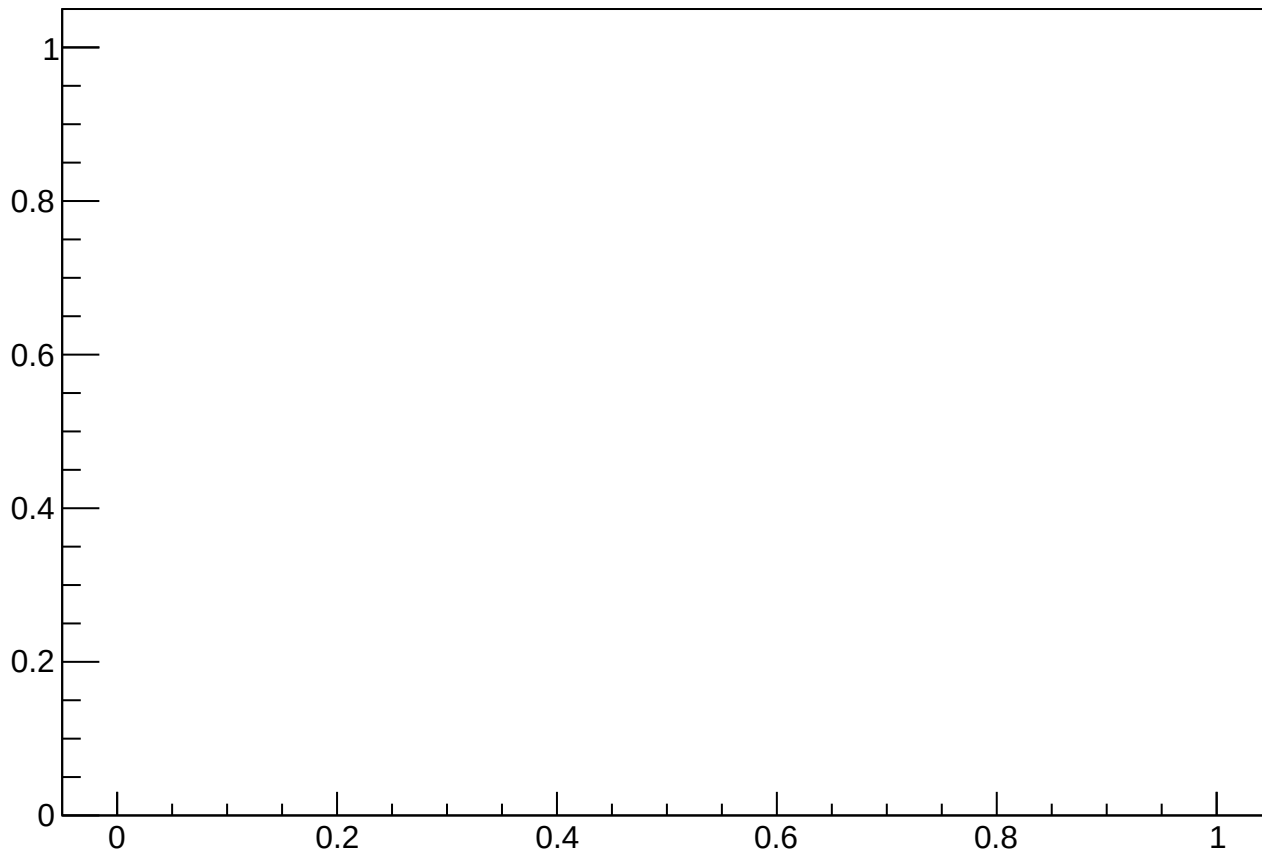
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

asym_atl_avg_atr_avg_dd_correction_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

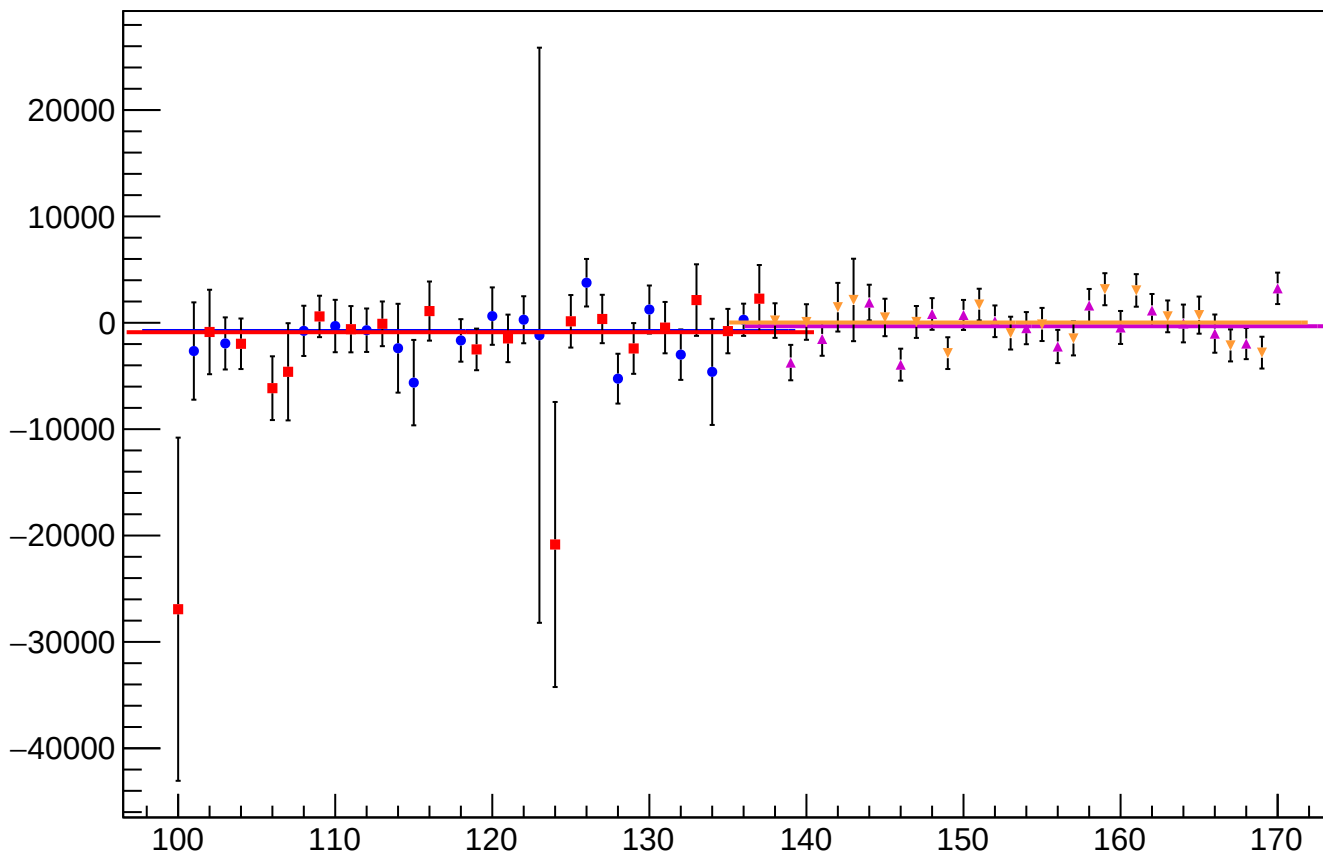
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -771.153+/-603.689 χ^2/NDF : 13.3/16

Left Out: 26.815+/-394.693 χ^2/NDF :21.2/16

Right Out: -885.145+/-595.053 χ^2/NDF : 13.5/18

Left In: -323.918+/-388.958 χ^2/NDF :24.8/15

Left: -151.118+/-277.040 χ^2/NDF : 46.5/32

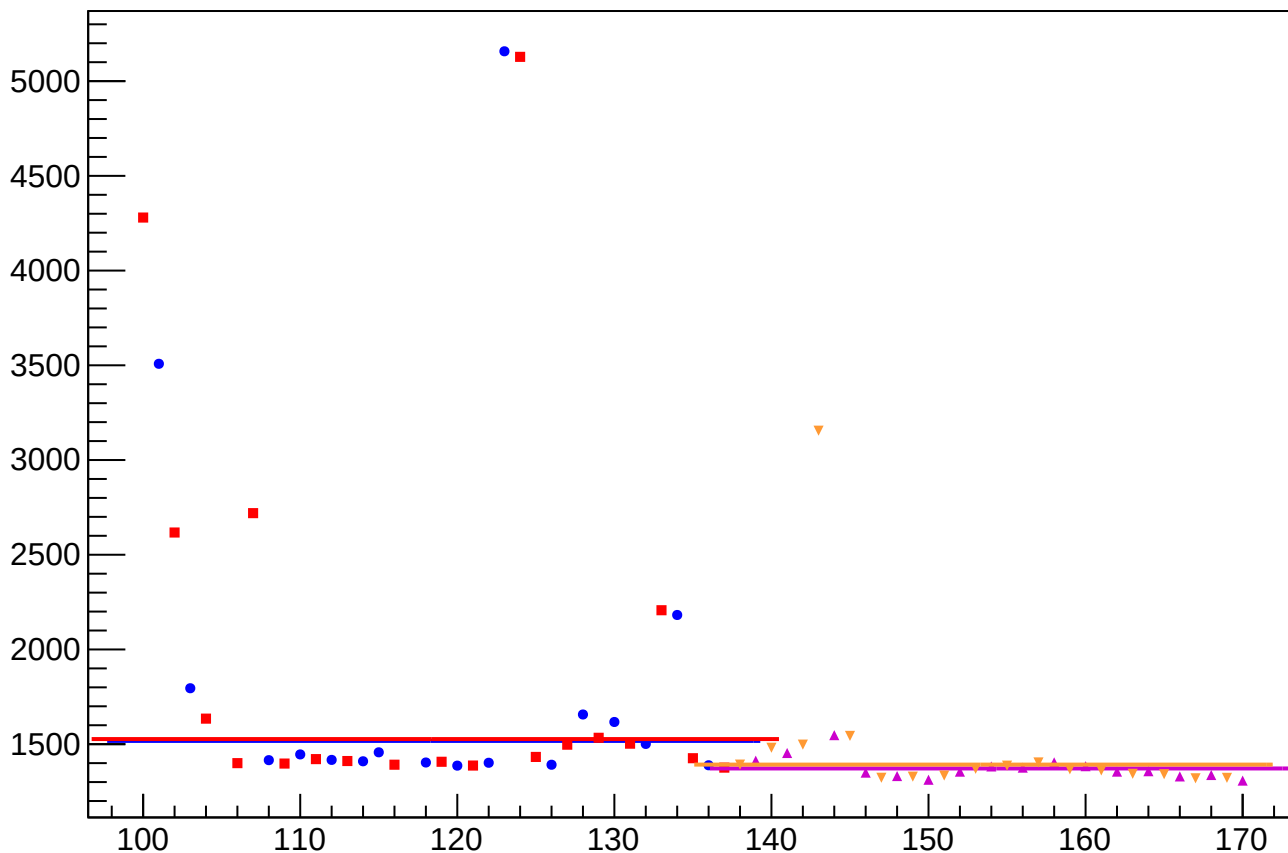
Right: -828.970+/-423.787 χ^2/NDF : 26.8/35

In: -455.113+/-326.968 χ^2/NDF :38.5/32

Out: -251.819+/-328.916 χ^2/NDF :36.4/35

All: -354.070+/-231.887 χ^2/NDF : 75.1/68

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1517.334+/-0.427 χ^2/NDF : 536662.7/16

Left Out: 1392.208+/-0.279 χ^2/NDF : 464008.5/16

Right Out: 1527.005+/-0.421 χ^2/NDF : 631684.2/18

Left In: 1371.793+/-0.275 χ^2/NDF : 41711.5/15

Left: 1381.851+/-0.196 χ^2/NDF : 508434.6/32

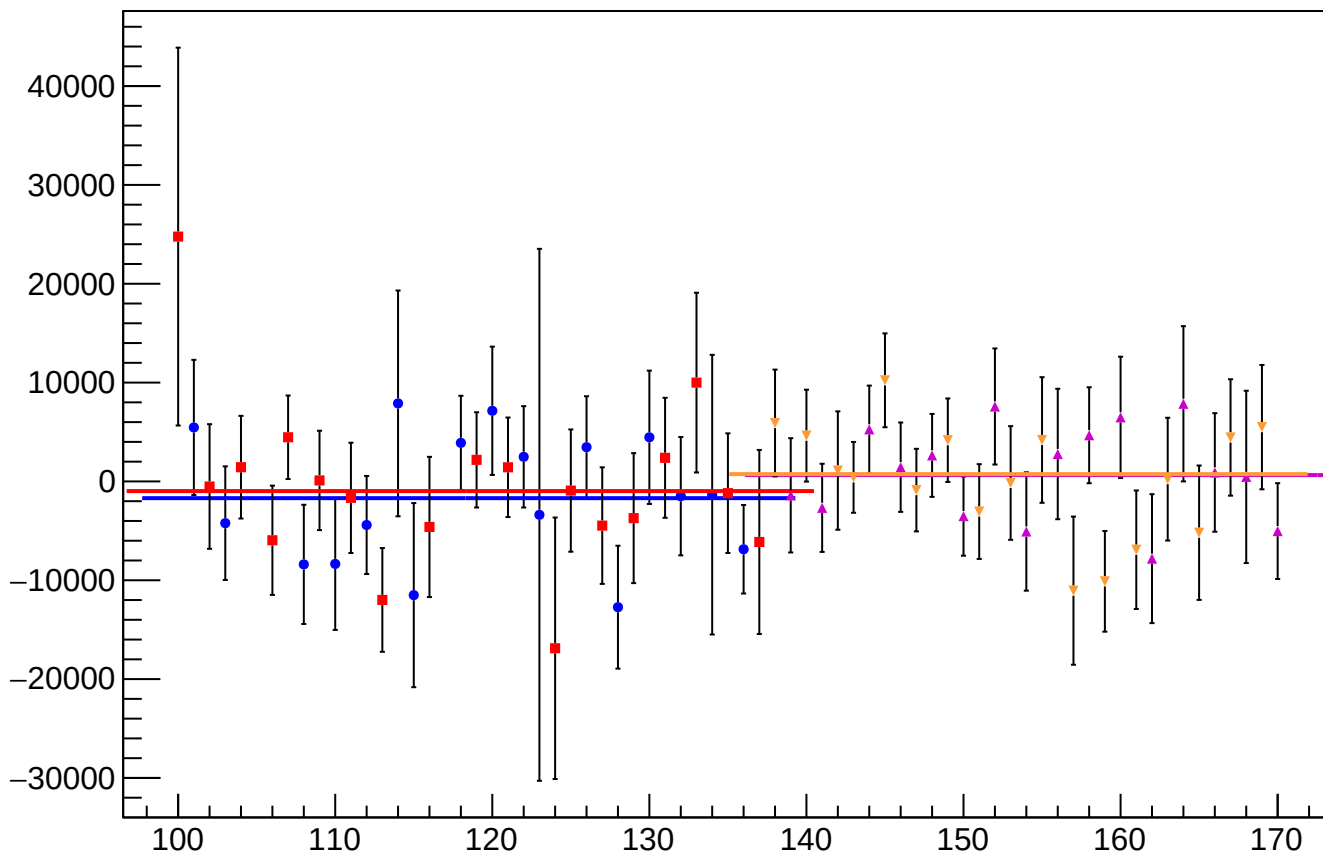
Right: 1522.239+/-0.300 χ^2/NDF : 1168607.3/35

In: 1414.487+/-0.231 χ^2/NDF : 660519.3/32

Out: 1433.394+/-0.233 χ^2/NDF : 1166967.1/35

All: 1423.884+/-0.164 χ^2/NDF : 1830810.0/68

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1692.604 ± 1512.935 $\chi^2/\text{NDF}: 15.8/16$

Left Out: 739.243 ± 1261.457 $\chi^2/\text{NDF}: 17.8/16$

Right Out: -977.899 ± 1378.874 $\chi^2/\text{NDF}: 13.9/18$

Left In: 642.185 ± 1322.972 $\chi^2/\text{NDF}: 11.0/15$

Left: 693.023 ± 912.958 $\chi^2/\text{NDF}: 28.8/32$

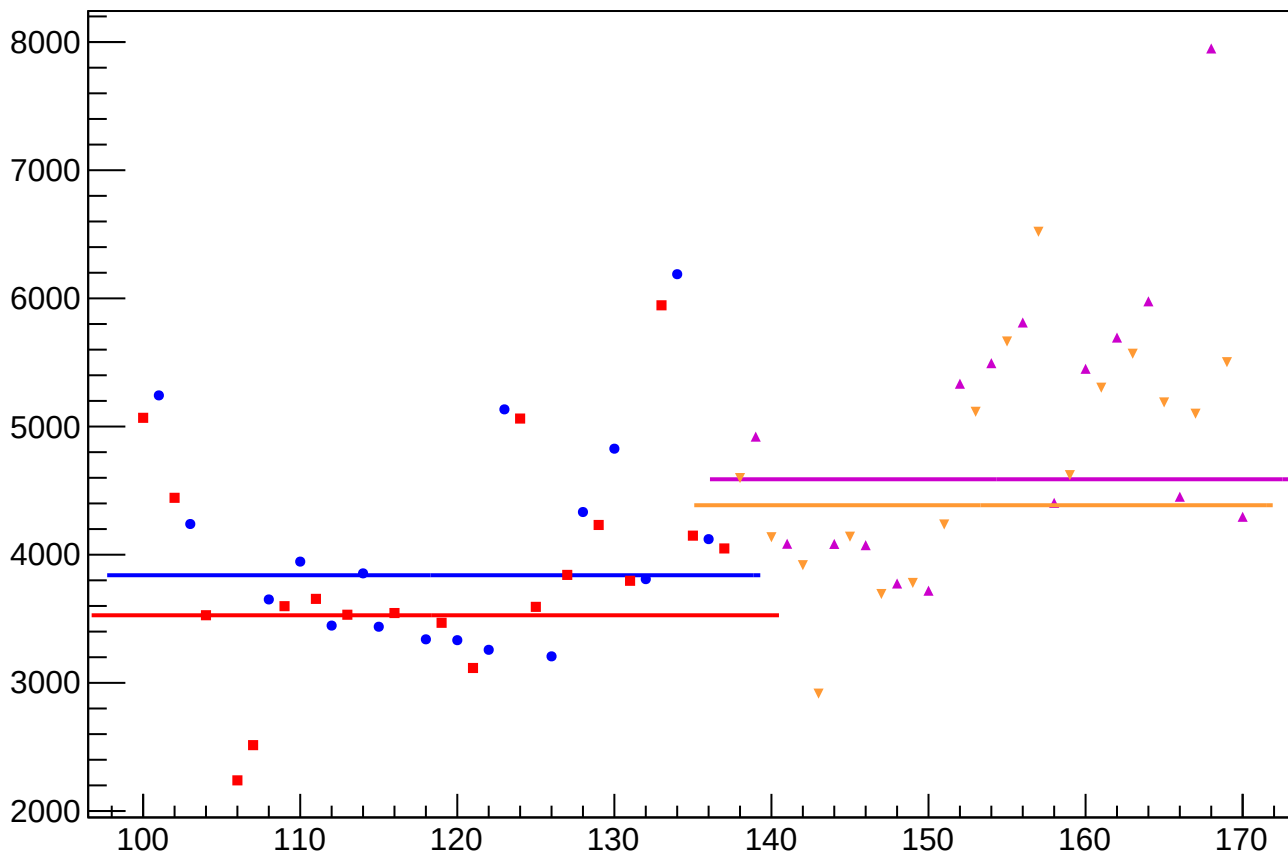
Right: -1302.190 ± 1019.117 $\chi^2/\text{NDF}: 29.9/35$

In: -369.512 ± 995.914 $\chi^2/\text{NDF}: 28.2/32$

Out: -43.116 ± 930.732 $\chi^2/\text{NDF}: 32.5/35$

All: -195.284 ± 680.004 $\chi^2/\text{NDF}: 60.8/68$

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3839.751+/-1.070 χ^2/NDF : 325959.2/16

Left Out: 4386.010+/-0.892 χ^2/NDF : 980150.7/16

Right Out: 3527.320+/-0.966 χ^2/NDF : 554785.4/18

Left In: 4588.570+/-0.935 χ^2/NDF : 868189.0/15

Left: 4482.471+/-0.646 χ^2/NDF : 1872897.9/32

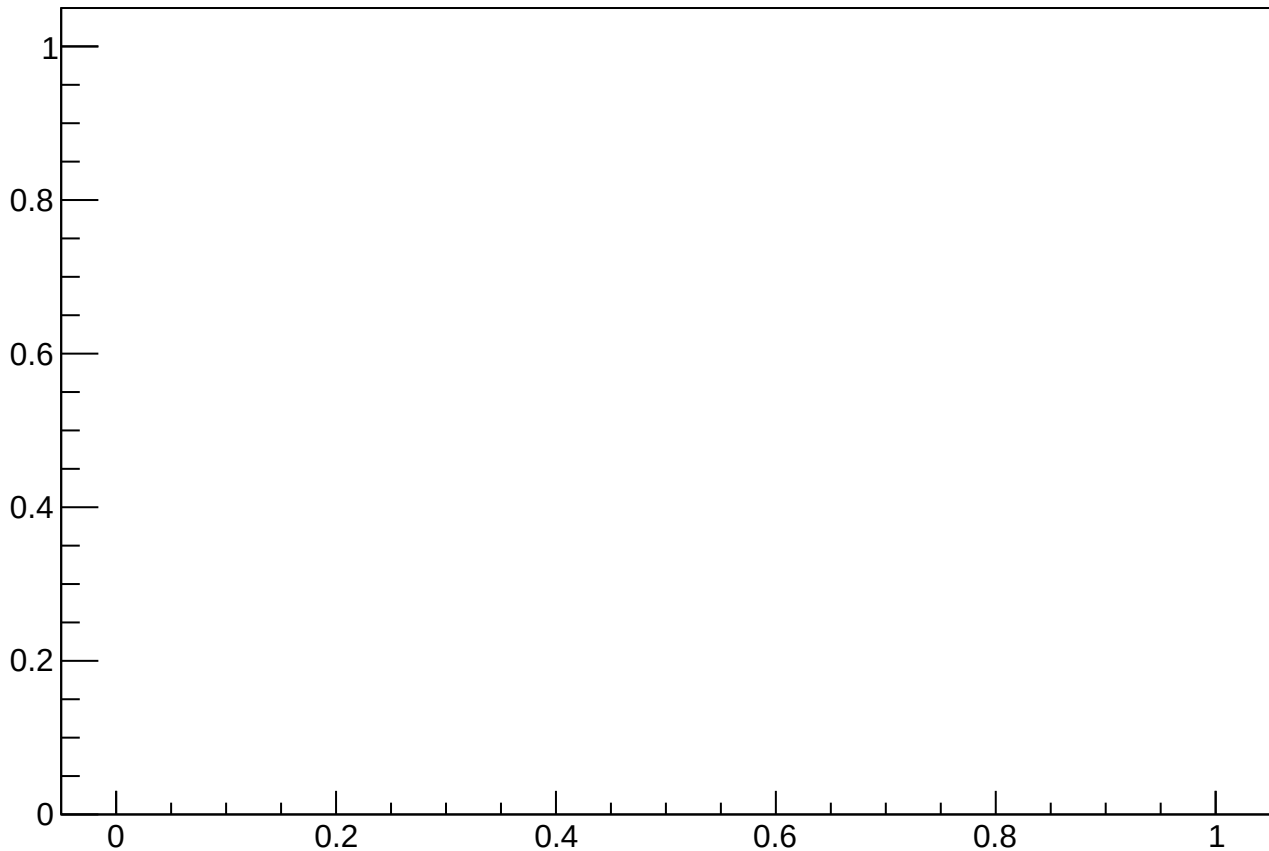
Right: 3667.674+/-0.717 χ^2/NDF : 927722.2/35

In: 4264.086+/-0.704 χ^2/NDF : 1471798.7/32

Out: 3990.883+/-0.655 χ^2/NDF : 1961375.5/35

All: 4117.686+/-0.480 χ^2/NDF : 3513828.0/68

asym_atl_dd_atr_dd_avg_correction_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

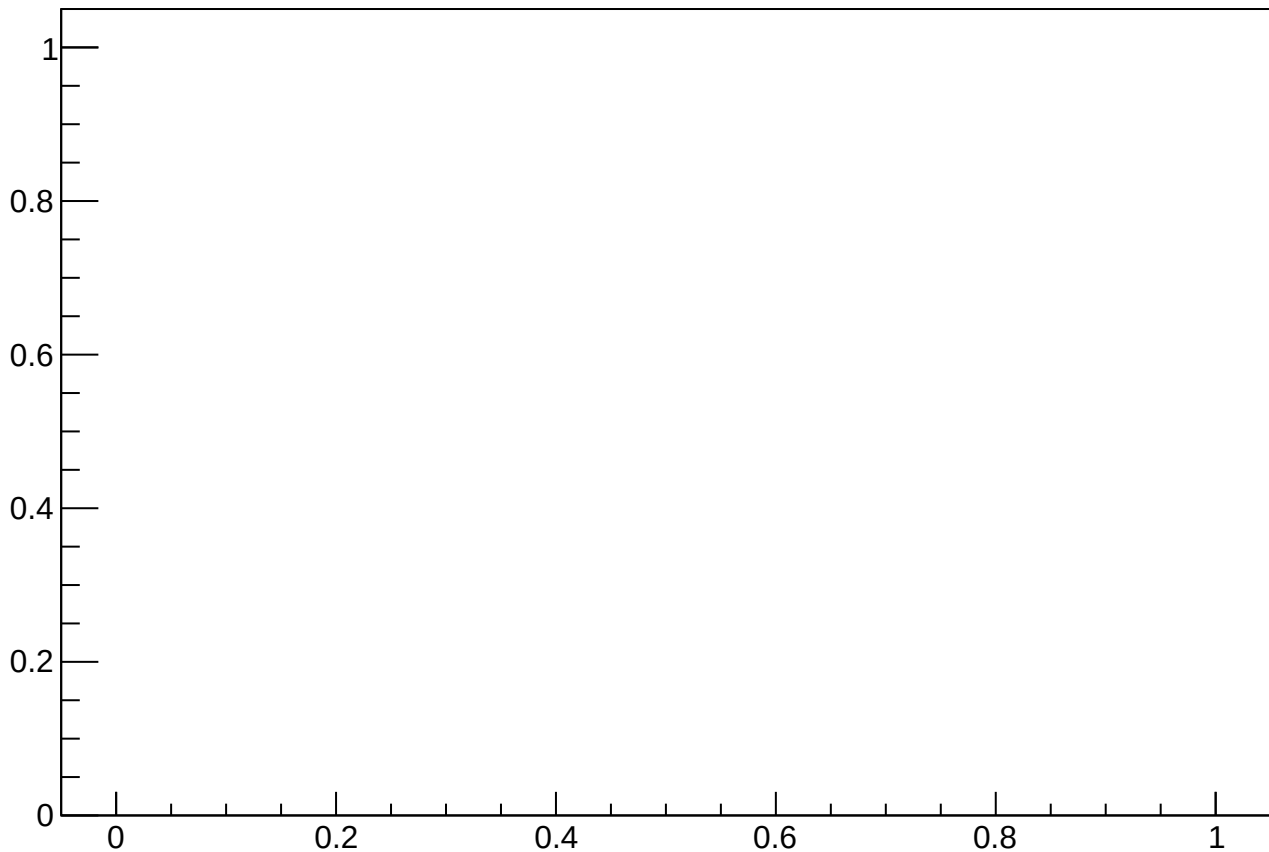
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

asym_atl_dd_atr_dd_avg_correction_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

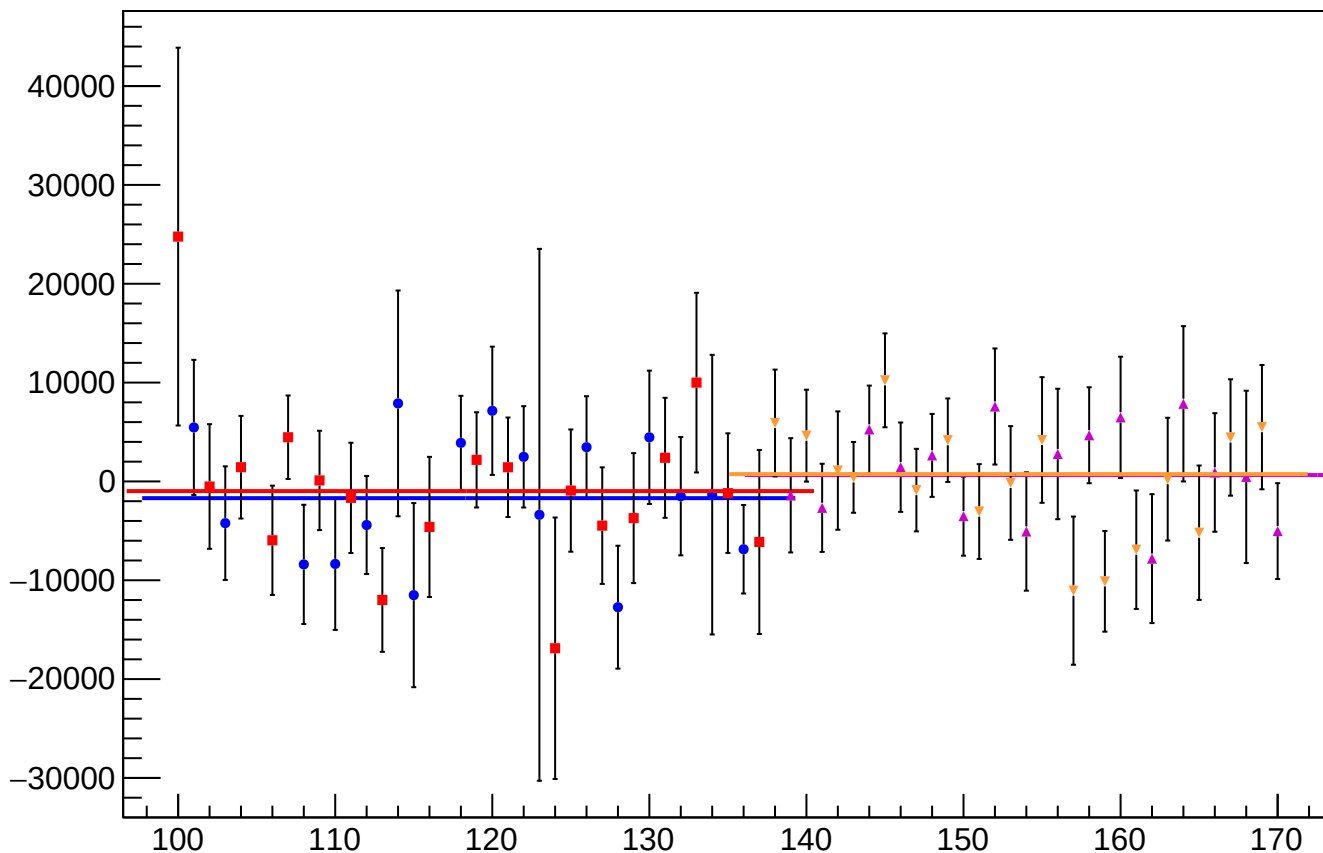
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1692.604 ± 1512.935 $\chi^2/\text{NDF}: 15.8/16$

Left Out: 739.243 ± 1261.457 $\chi^2/\text{NDF}: 17.8/16$

Right Out: -977.899 ± 1378.874 $\chi^2/\text{NDF}: 13.9/18$

Left In: 642.185 ± 1322.972 $\chi^2/\text{NDF}: 11.0/15$

Left: 693.023 ± 912.958 $\chi^2/\text{NDF}: 28.8/32$

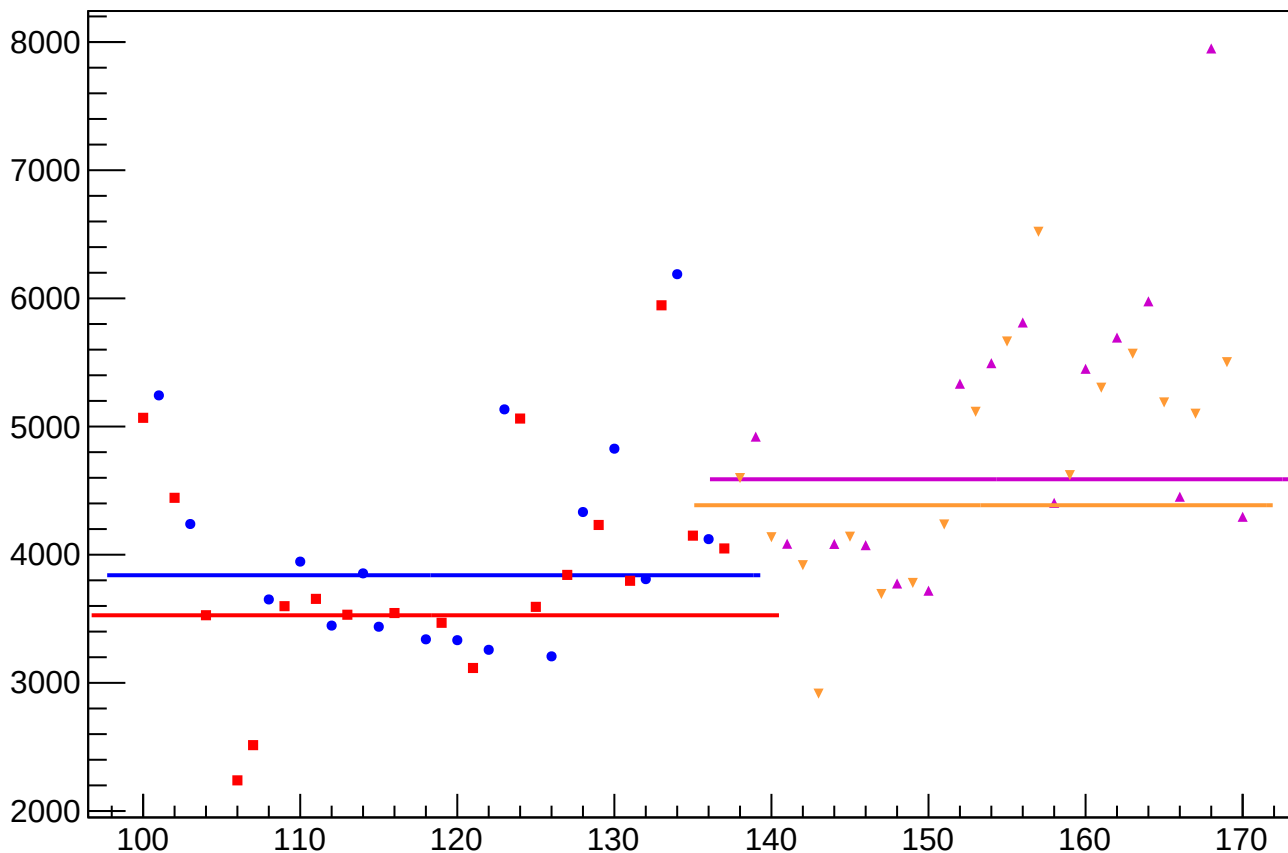
Right: -1302.190 ± 1019.117 $\chi^2/\text{NDF}: 29.9/35$

In: -369.512 ± 995.914 $\chi^2/\text{NDF}: 28.2/32$

Out: -43.116 ± 930.732 $\chi^2/\text{NDF}: 32.5/35$

All: -195.284 ± 680.004 $\chi^2/\text{NDF}: 60.8/68$

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3839.751+/-1.070 χ^2/NDF : 325959.2/16

Left Out: 4386.010+/-0.892 χ^2/NDF : 980150.7/16

Right Out: 3527.320+/-0.966 χ^2/NDF : 554785.4/18

Left In: 4588.570+/-0.935 χ^2/NDF : 868189.0/15

Left: 4482.471+/-0.646 χ^2/NDF : 1872897.9/32

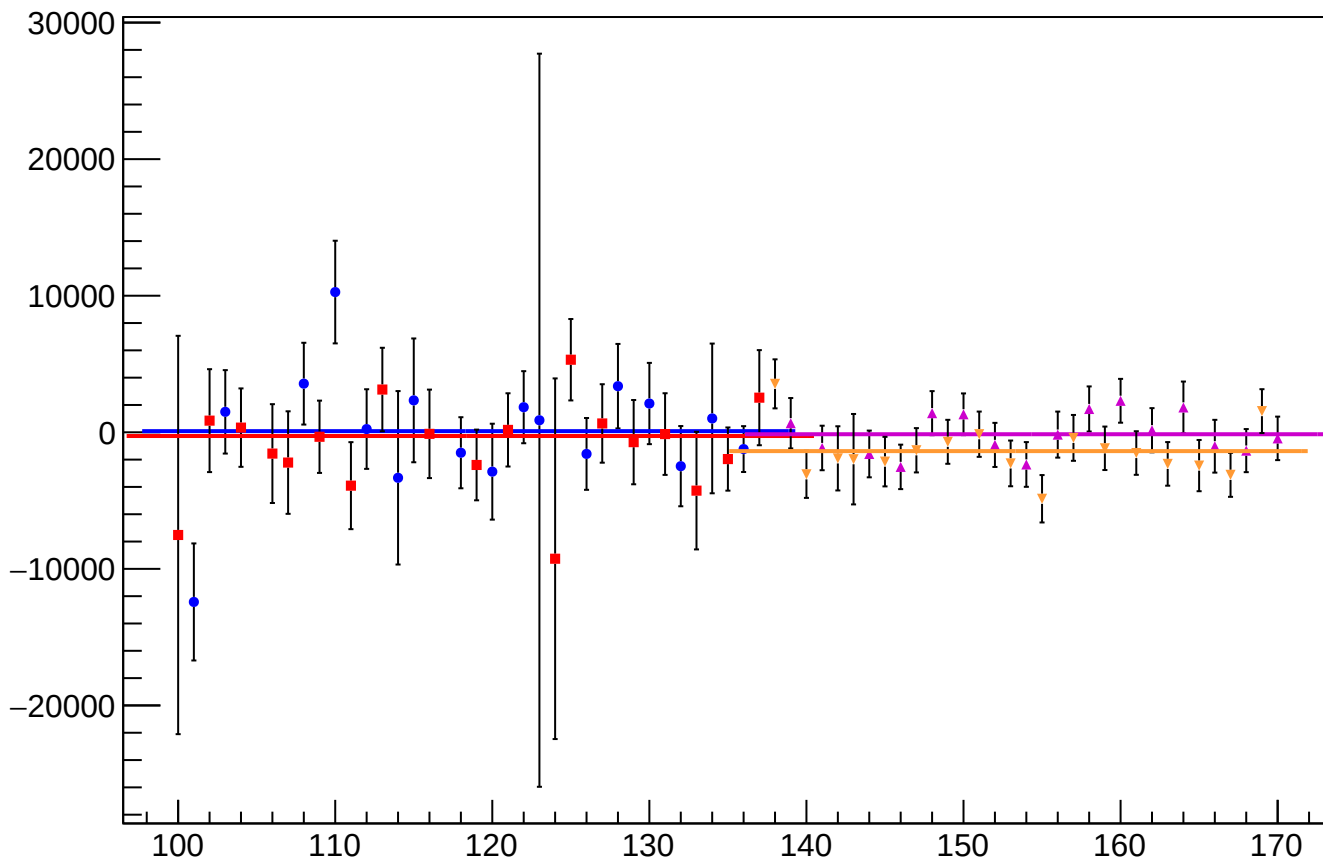
Right: 3667.674+/-0.717 χ^2/NDF : 927722.2/35

In: 4264.086+/-0.704 χ^2/NDF : 1471798.7/32

Out: 3990.883+/-0.655 χ^2/NDF : 1961375.5/35

All: 4117.686+/-0.480 χ^2/NDF : 3513828.0/68

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 83.860+/-750.549 χ^2/NDF : 22.9/16

Left Out: -1378.061+/-421.335 χ^2/NDF :19.3/16

Right Out: -272.707+/-734.115 χ^2/NDF : 10.2/18

Left In: -142.147+/-415.548 χ^2/NDF :12.8/15

Left: -751.558+/-295.861 χ^2/NDF : 36.5/32

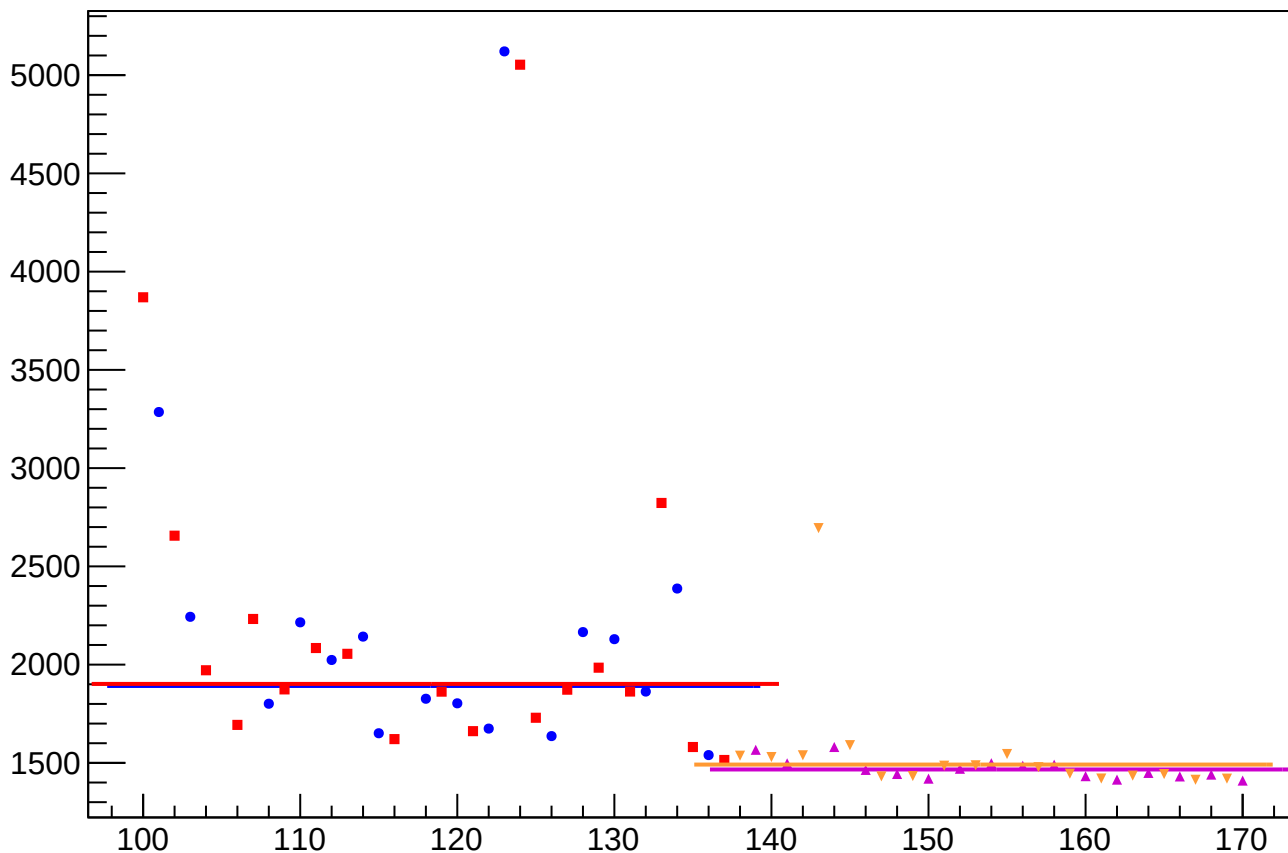
Right: -98.370+/-524.811 χ^2/NDF : 33.2/35

In: -89.122+/-363.546 χ^2/NDF :35.8/32

Out: -1104.174+/-365.426 χ^2/NDF :31.2/35

All: -594.031+/-257.728 χ^2/NDF : 70.9/68

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1891.492 $\pm$ 0.531 χ^2 /NDF: 464497.5/16

Left Out: 1491.376 $\pm$ 0.298 χ^2 /NDF: 298668.1/16

Right Out: 1901.797 $\pm$ 0.519 χ^2 /NDF: 460687.3/18

Left In: 1466.394 $\pm$ 0.294 χ^2 /NDF: 26176.3/15

Left: 1478.712 $\pm$ 0.209 χ^2 /NDF: 328408.6/32

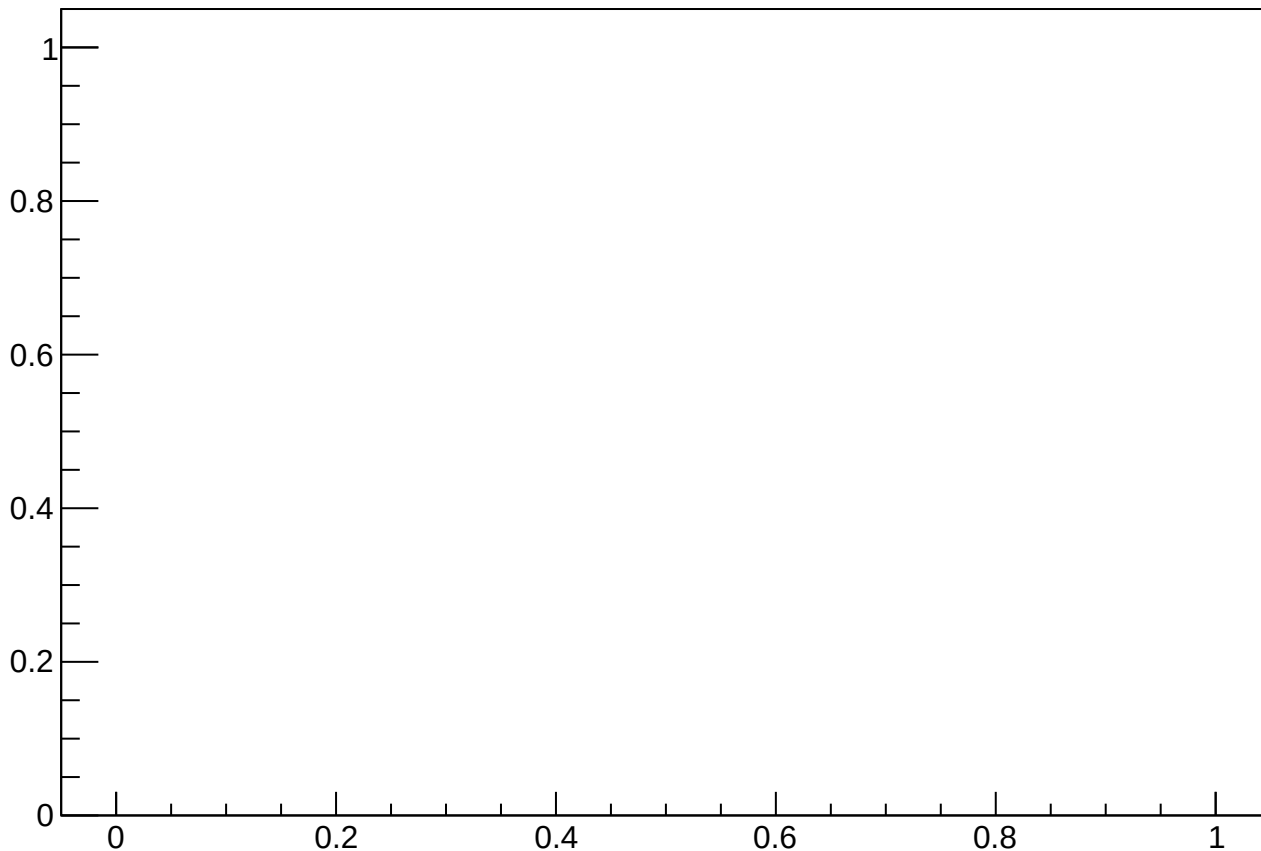
Right: 1896.759 $\pm$ 0.371 χ^2 /NDF: 925377.5/35

In: 1566.131 $\pm$ 0.257 χ^2 /NDF: 981730.9/32

Out: 1593.073 $\pm$ 0.258 χ^2 /NDF: 1229590.2/35

All: 1579.533 $\pm$ 0.182 χ^2 /NDF: 2216785.1/68

asym_atl_dd_atr_dd_dd_correction_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

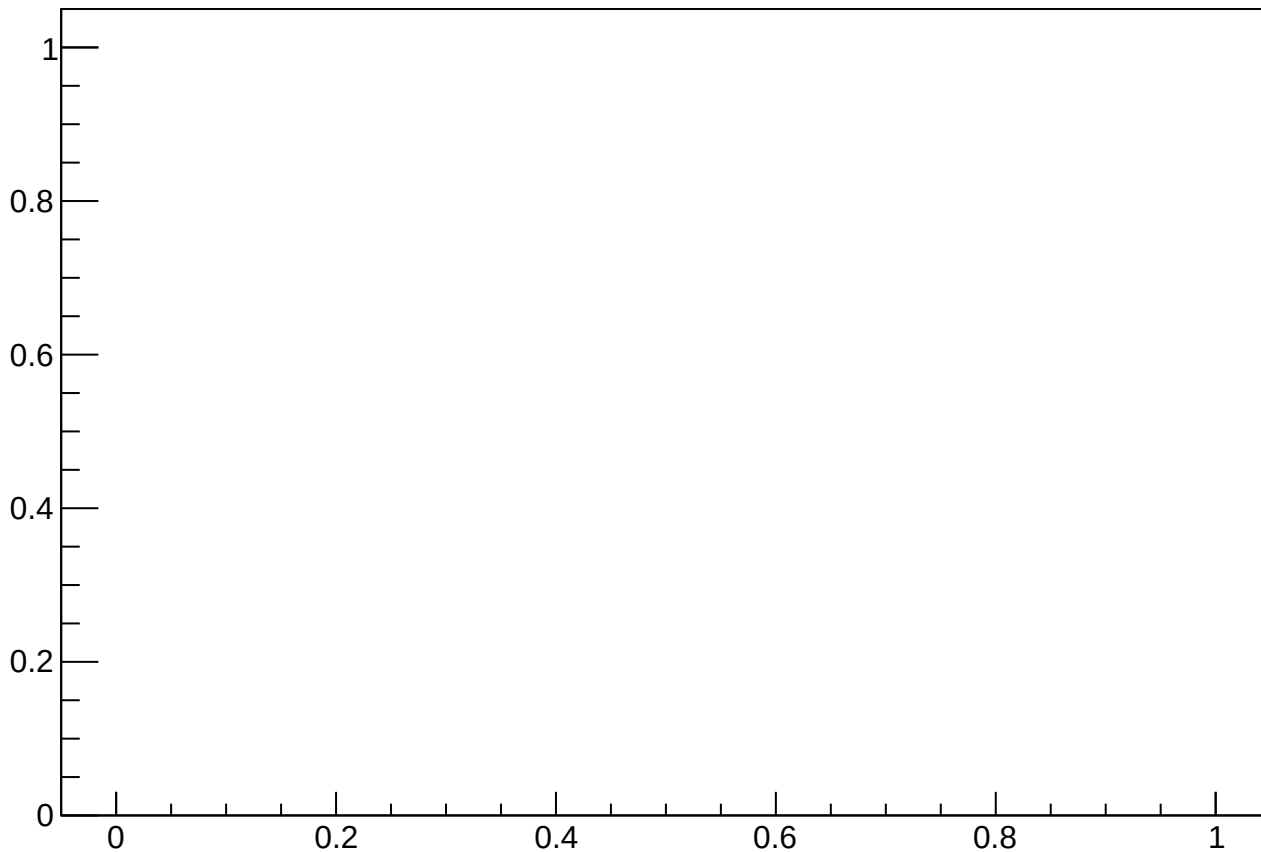
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

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

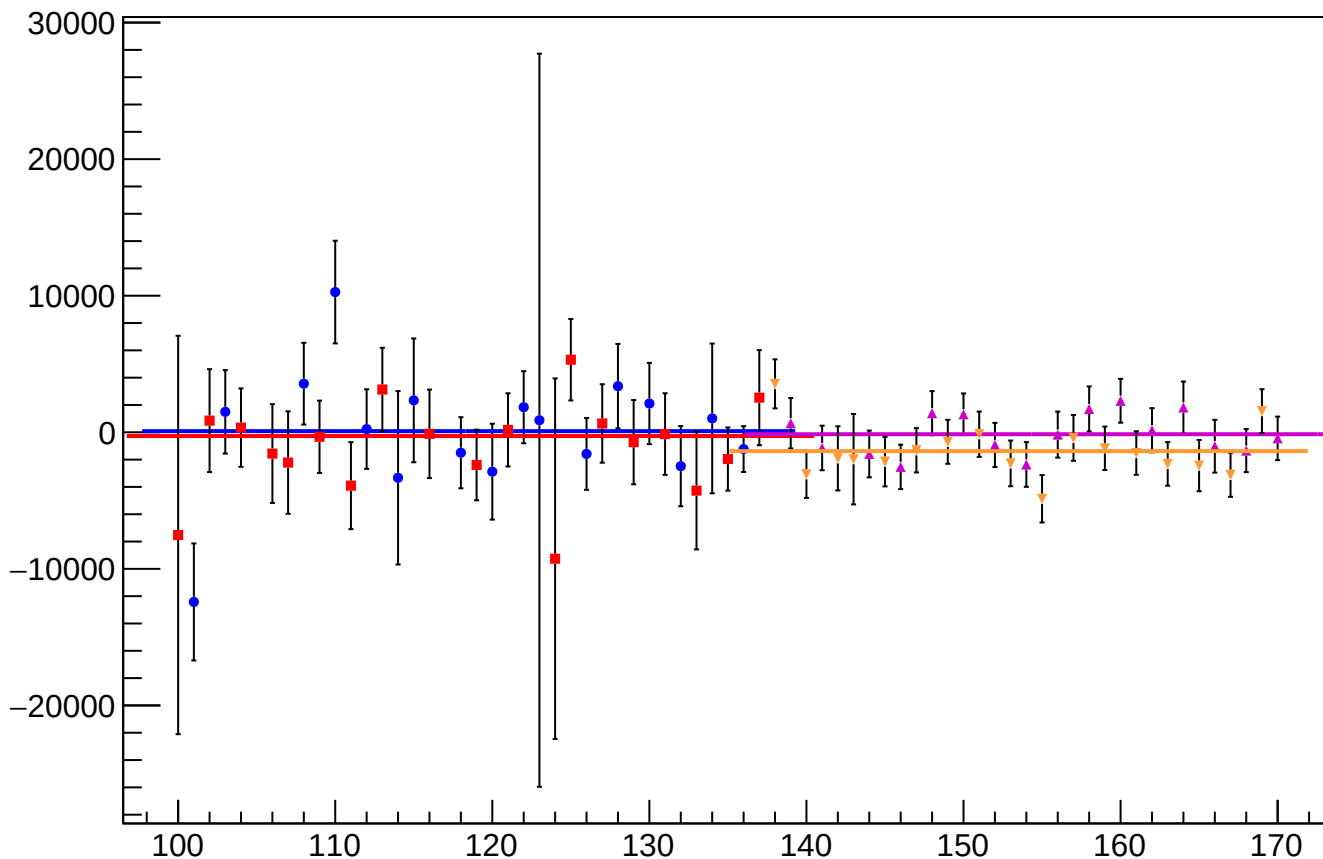
asym_atl_dd_atr_dd_dd_correction_rms vs Slug, Sign Corrected



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

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 83.860 ± 750.549 $\chi^2/\text{NDF}: 22.9/16$

Left Out: -1378.061 ± 421.335 $\chi^2/\text{NDF}: 19.3/16$

Right Out: -272.707 ± 734.115 $\chi^2/\text{NDF}: 10.2/18$

Left In: -142.147 ± 415.548 $\chi^2/\text{NDF}: 12.8/15$

Left: -751.558 ± 295.861 $\chi^2/\text{NDF}: 36.5/32$

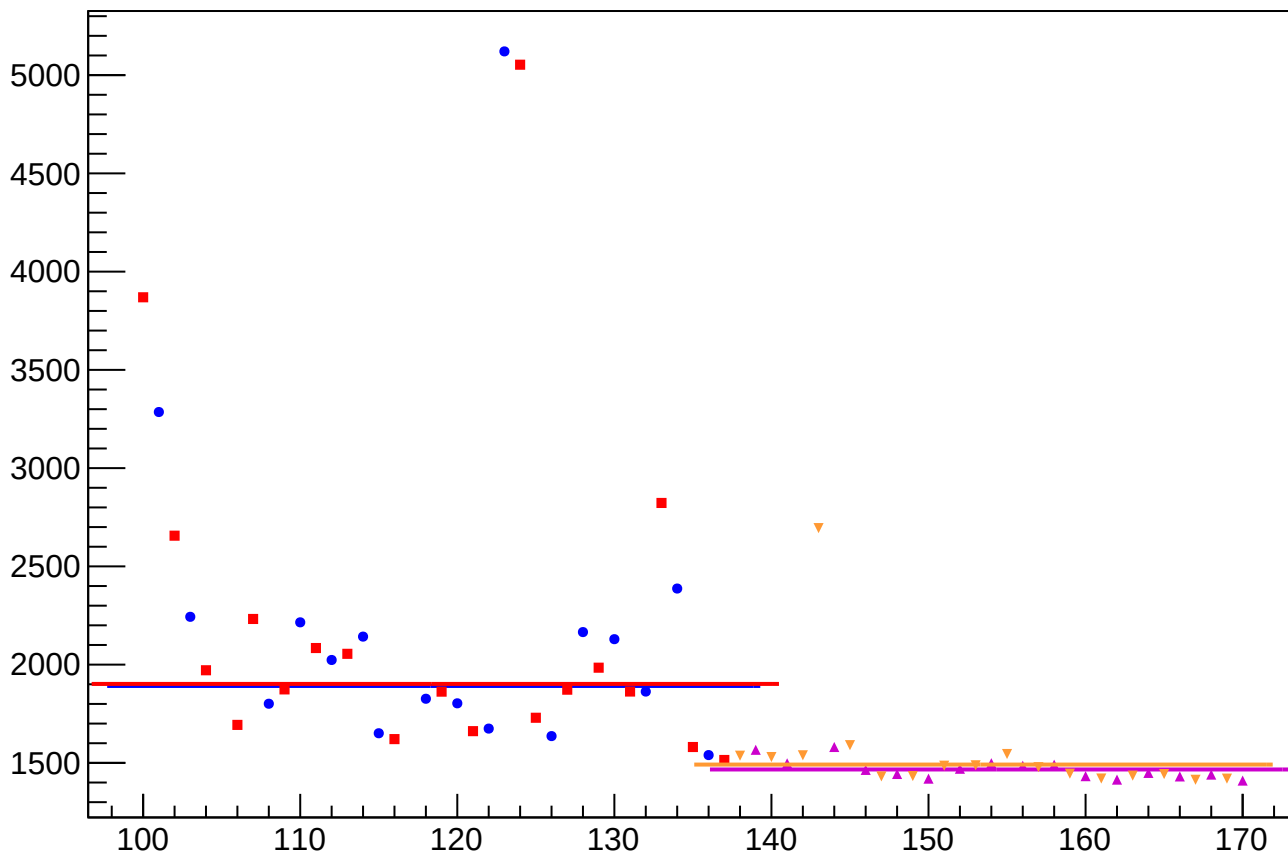
Right: -98.370 ± 524.811 $\chi^2/\text{NDF}: 33.2/35$

In: -89.122 ± 363.546 $\chi^2/\text{NDF}: 35.8/32$

Out: -1104.174 ± 365.426 $\chi^2/\text{NDF}: 31.2/35$

All: -594.031 ± 257.728 $\chi^2/\text{NDF}: 70.9/68$

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1891.492 $\pm$ 0.531 χ^2 /NDF: 464497.5/16

Left Out: 1491.376 $\pm$ 0.298 χ^2 /NDF: 298668.1/16

Right Out: 1901.797 $\pm$ 0.519 χ^2 /NDF: 460687.3/18

Left In: 1466.394 $\pm$ 0.294 χ^2 /NDF: 26176.3/15

Left: 1478.712 $\pm$ 0.209 χ^2 /NDF: 328408.6/32

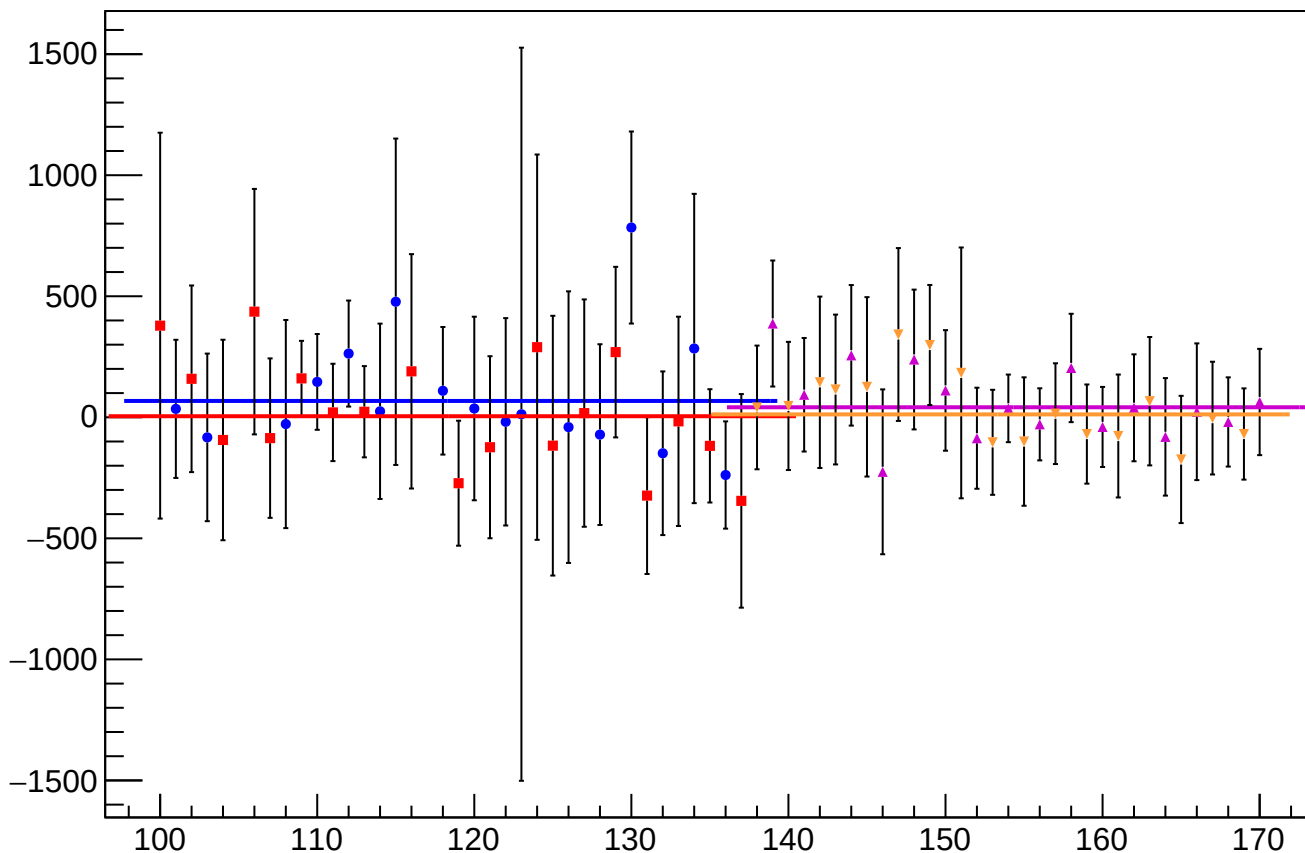
Right: 1896.759 $\pm$ 0.371 χ^2 /NDF: 925377.5/35

In: 1566.131 $\pm$ 0.257 χ^2 /NDF: 981730.9/32

Out: 1593.073 $\pm$ 0.258 χ^2 /NDF: 1229590.2/35

All: 1579.533 $\pm$ 0.182 χ^2 /NDF: 2216785.1/68

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 67.542 $\pm$ 79.608 χ^2 /NDF: 7.5/16

Left Out: 12.006 $\pm$ 62.462 χ^2 /NDF:4.1/16

Right Out: 4.423 $\pm$ 70.009 χ^2 /NDF: 6.4/18

Left In: 41.468 $\pm$ 52.880 χ^2 /NDF:5.3/15

Left: 29.168 $\pm$ 40.359 χ^2 /NDF: 9.5/32

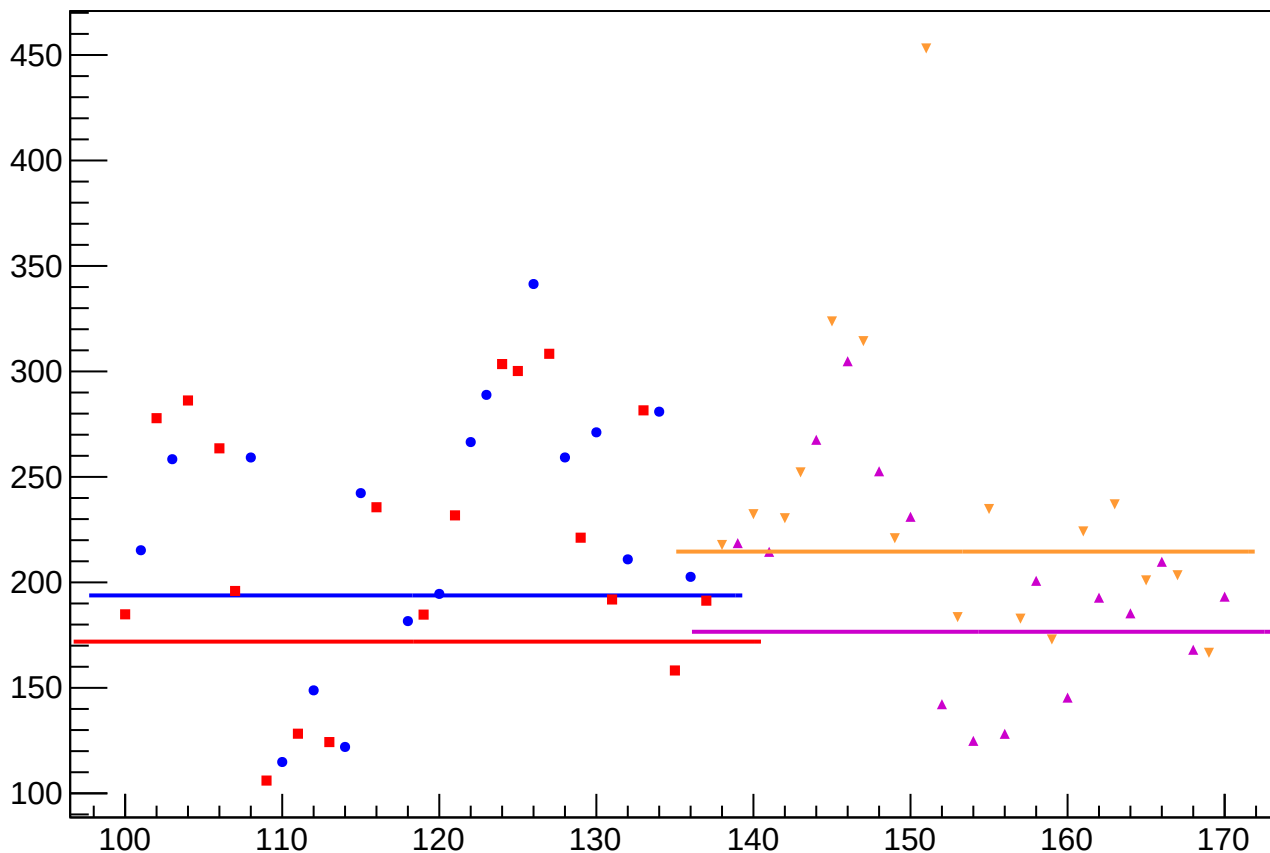
Right: 31.949 $\pm$ 52.572 χ^2 /NDF: 14.2/35

In: 49.451 $\pm$ 44.048 χ^2 /NDF:12.9/32

Out: 8.645 $\pm$ 46.608 χ^2 /NDF:10.5/35

All: 30.199 $\pm$ 32.013 χ^2 /NDF: 23.8/68

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.815 $\pm$ 0.056 χ^2 /NDF: 1010325.5/16

Left Out: 214.596 $\pm$ 0.044 χ^2 /NDF:1136250.4/16

Right Out: 171.920 $\pm$ 0.050 χ^2 /NDF: 1577076.0/18

Left In: 176.587 $\pm$ 0.037 χ^2 /NDF:1509863.7/15

Left: 192.456 $\pm$ 0.029 χ^2 /NDF: 3077510.4/32

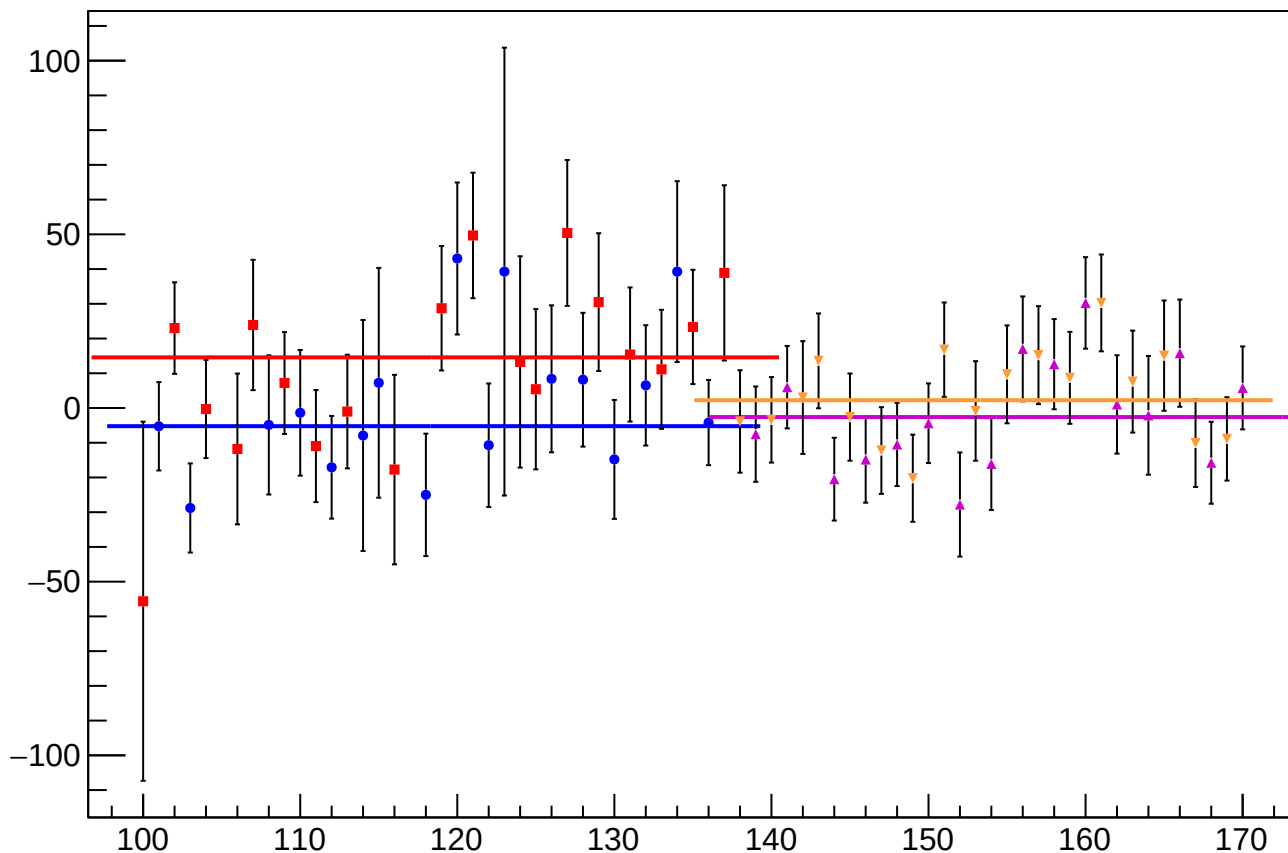
Right: 181.469 $\pm$ 0.037 χ^2 /NDF: 2672713.5/35

In: 181.862 $\pm$ 0.031 χ^2 /NDF:2585180.3/32

Out: 195.682 $\pm$ 0.033 χ^2 /NDF:3127121.3/35

All: 188.382 $\pm$ 0.023 χ^2 /NDF: 5805188.5/68

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.231 ± 4.356 χ^2/NDF : 15.5/16

Left Out: 2.252 ± 3.289 χ^2/NDF : 15.0/16

Right Out: 14.579 ± 4.265 χ^2/NDF : 19.5/18

Left In: -2.611 ± 3.270 χ^2/NDF : 20.7/15

Left: -0.193 ± 2.319 χ^2/NDF : 36.8/32

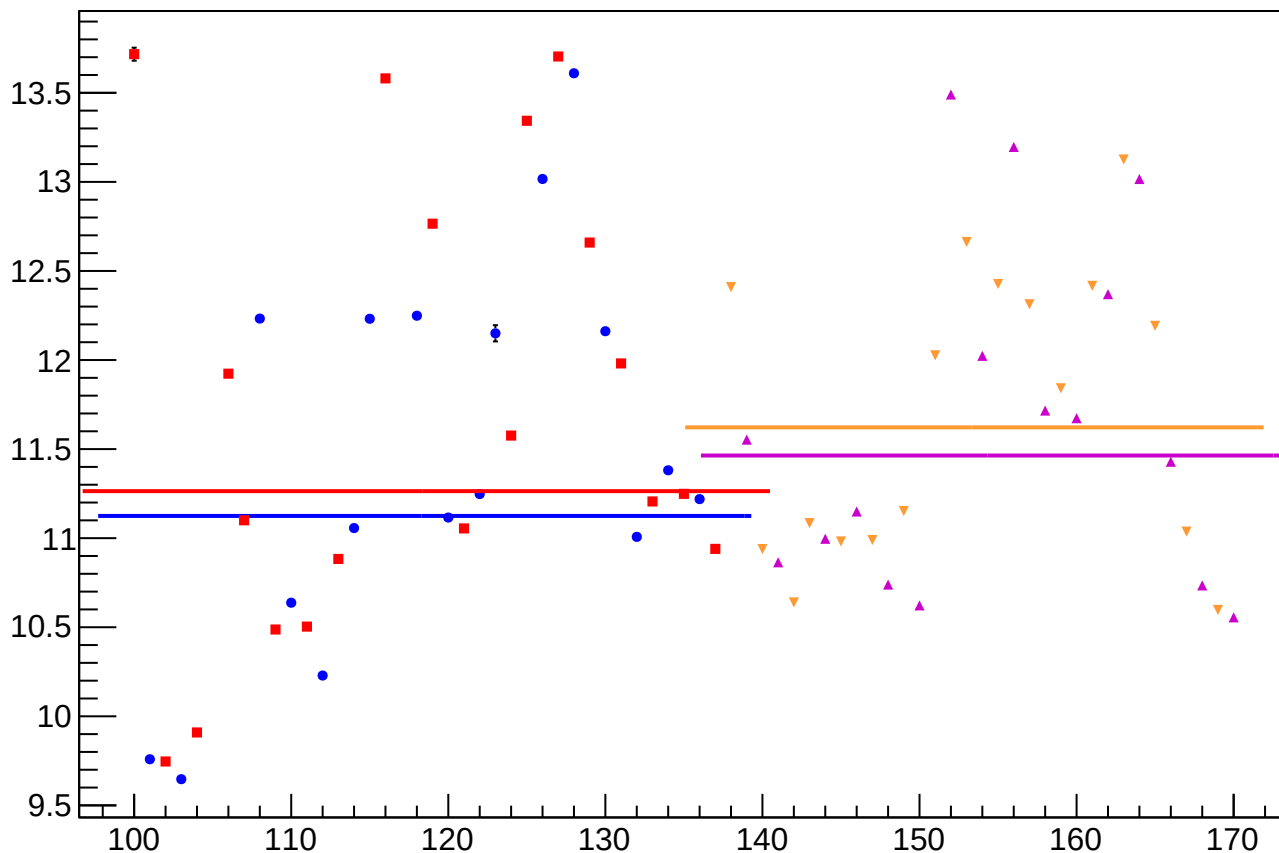
Right: 4.883 ± 3.047 χ^2/NDF : 45.6/35

In: -3.555 ± 2.615 χ^2/NDF : 36.4/32

Out: 6.848 ± 2.604 χ^2/NDF : 39.7/35

All: 1.668 ± 1.845 χ^2/NDF : 84.1/68

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.125 $\pm$ 0.003 χ^2 /NDF: 132520.1/16

Left Out: 11.622 $\pm$ 0.002 χ^2 /NDF:108540.8/16

Right Out: 11.264 $\pm$ 0.003 χ^2 /NDF: 147733.2/18

Left In: 11.464 $\pm$ 0.002 χ^2 /NDF:139196.9/15

Left: 11.543 $\pm$ 0.002 χ^2 /NDF: 250059.1/32

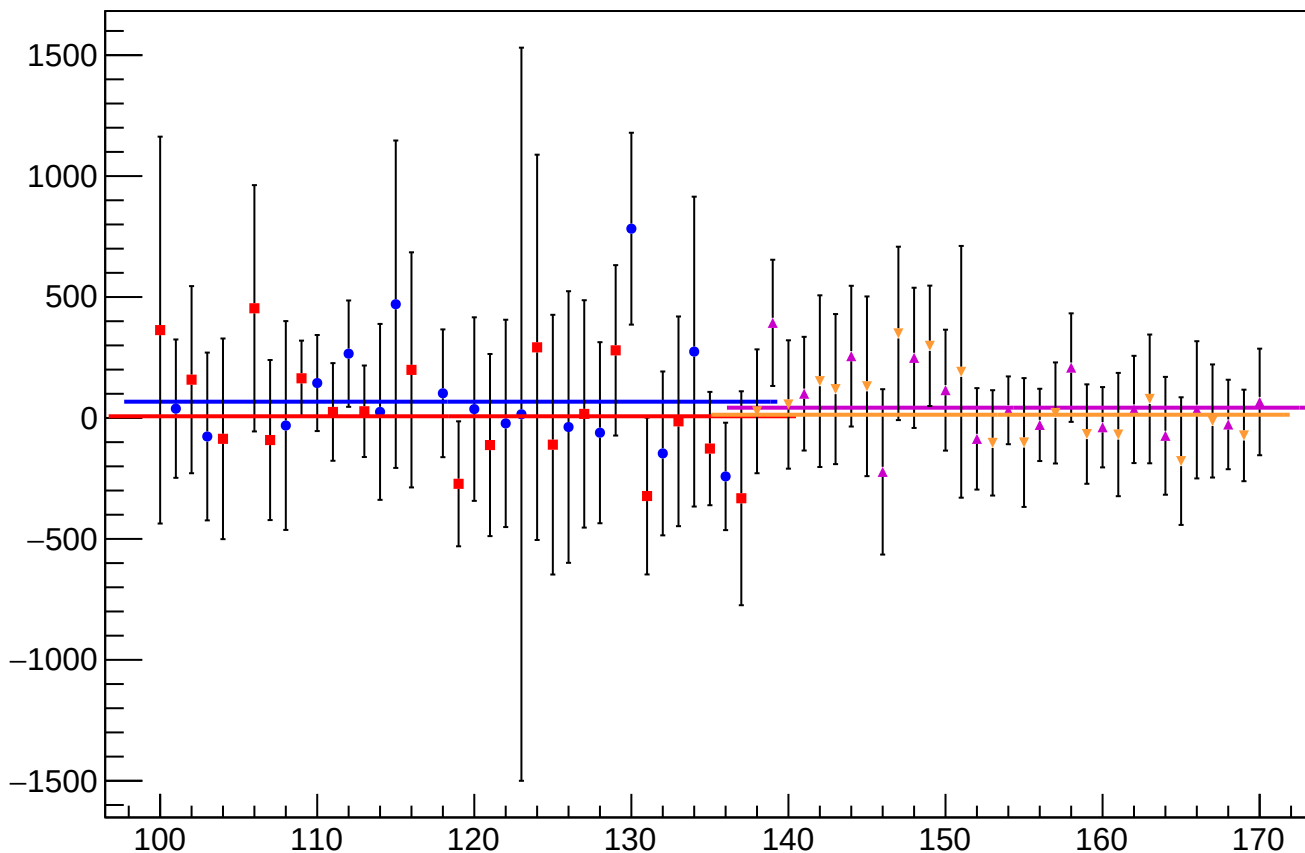
Right: 11.196 $\pm$ 0.002 χ^2 /NDF: 281295.0/35

In: 11.342 $\pm$ 0.002 χ^2 /NDF:279470.8/32

Out: 11.488 $\pm$ 0.002 χ^2 /NDF:265113.0/35

All: 11.415 $\pm$ 0.001 χ^2 /NDF: 547746.6/68

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 67.305+/-79.817 χ^2/NDF : 7.5/16

Left Out: 13.371+/-62.680 χ^2/NDF : 4.2/16

Right Out: 7.039+/-70.212 χ^2/NDF : 6.4/18

Left In: 42.502+/-53.063 χ^2/NDF : 5.4/15

Left: 30.341+/-40.499 χ^2/NDF : 9.7/32

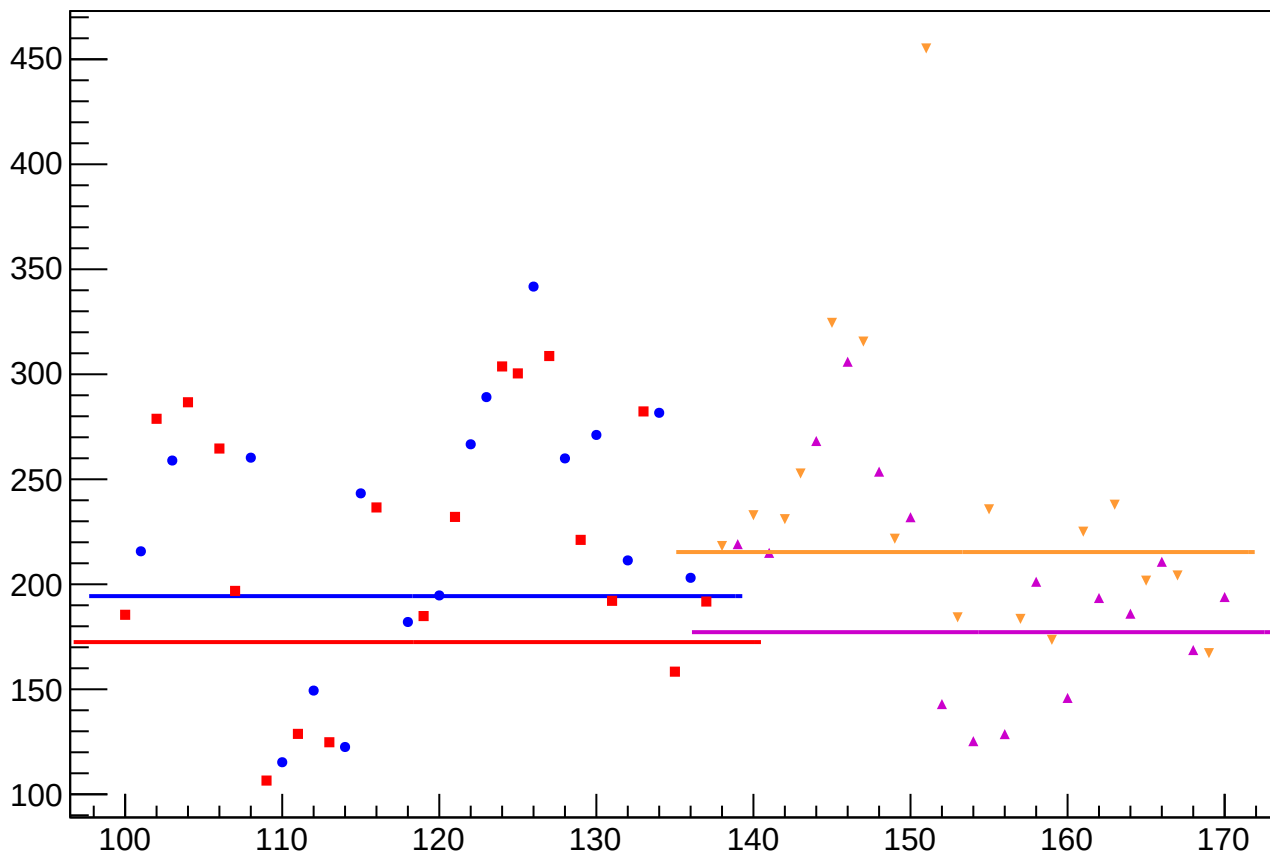
Right: 33.329+/-52.718 χ^2/NDF : 14.2/35

In: 50.104+/-44.189 χ^2/NDF : 12.9/32

Out: 10.562+/-46.759 χ^2/NDF : 10.7/35

All: 31.450+/-32.116 χ^2/NDF : 24.0/68

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.365+/-0.056 χ^2/NDF : 1005234.4/16

Left Out: 215.350+/-0.044 χ^2/NDF : 1135312.8/16

Right Out: 172.471+/-0.050 χ^2/NDF : 1569648.4/18

Left In: 177.202+/-0.038 χ^2/NDF : 1507954.6/15

Left: 193.128+/-0.029 χ^2/NDF : 3074810.7/32

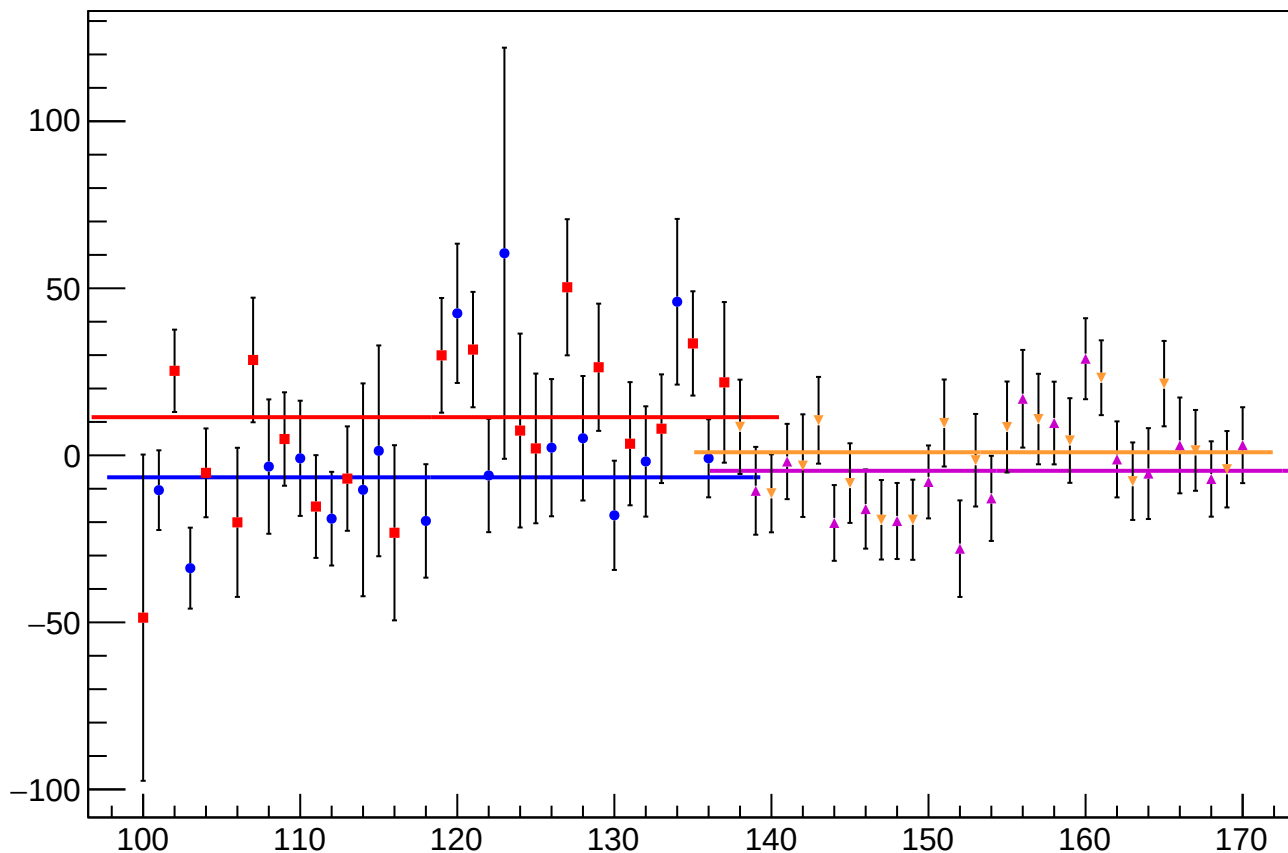
Right: 182.022+/-0.037 χ^2/NDF : 2659717.0/35

In: 182.463+/-0.031 χ^2/NDF : 2577321.3/32

Out: 196.333+/-0.033 χ^2/NDF : 3120054.7/35

All: 189.006+/-0.023 χ^2/NDF : 5790341.9/68

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.575 ± 4.157 $\chi^2/\text{NDF}: 19.3/16$

Left Out: 0.922 ± 3.046 $\chi^2/\text{NDF}: 17.1/16$

Right Out: 11.423 ± 4.080 $\chi^2/\text{NDF}: 23.0/18$

Left In: -4.630 ± 3.054 $\chi^2/\text{NDF}: 20.0/15$

Left: -1.847 ± 2.157 $\chi^2/\text{NDF}: 38.7/32$

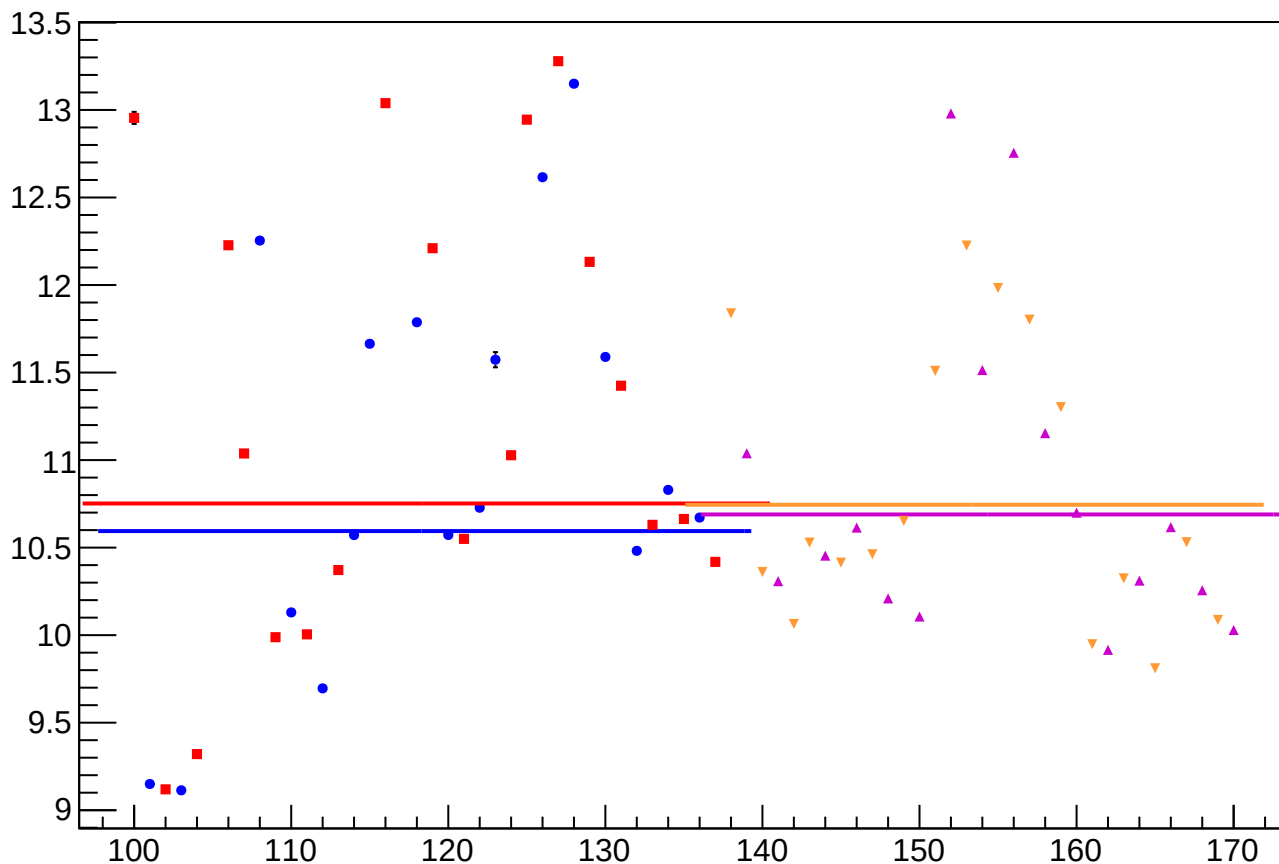
Right: 2.593 ± 2.912 $\chi^2/\text{NDF}: 51.8/35$

In: -5.312 ± 2.461 $\chi^2/\text{NDF}: 39.5/32$

Out: 4.680 ± 2.441 $\chi^2/\text{NDF}: 44.3/35$

All: -0.274 ± 1.733 $\chi^2/\text{NDF}: 92.1/68$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.594 $\pm$ 0.003 χ^2 /NDF: 160059.2/16

Left Out: 10.745 $\pm$ 0.002 χ^2 /NDF:114468.2/16

Right Out: 10.752 $\pm$ 0.003 χ^2 /NDF: 177173.0/18

Left In: 10.689 $\pm$ 0.002 χ^2 /NDF:135788.3/15

Left: 10.717 $\pm$ 0.002 χ^2 /NDF: 250585.8/32

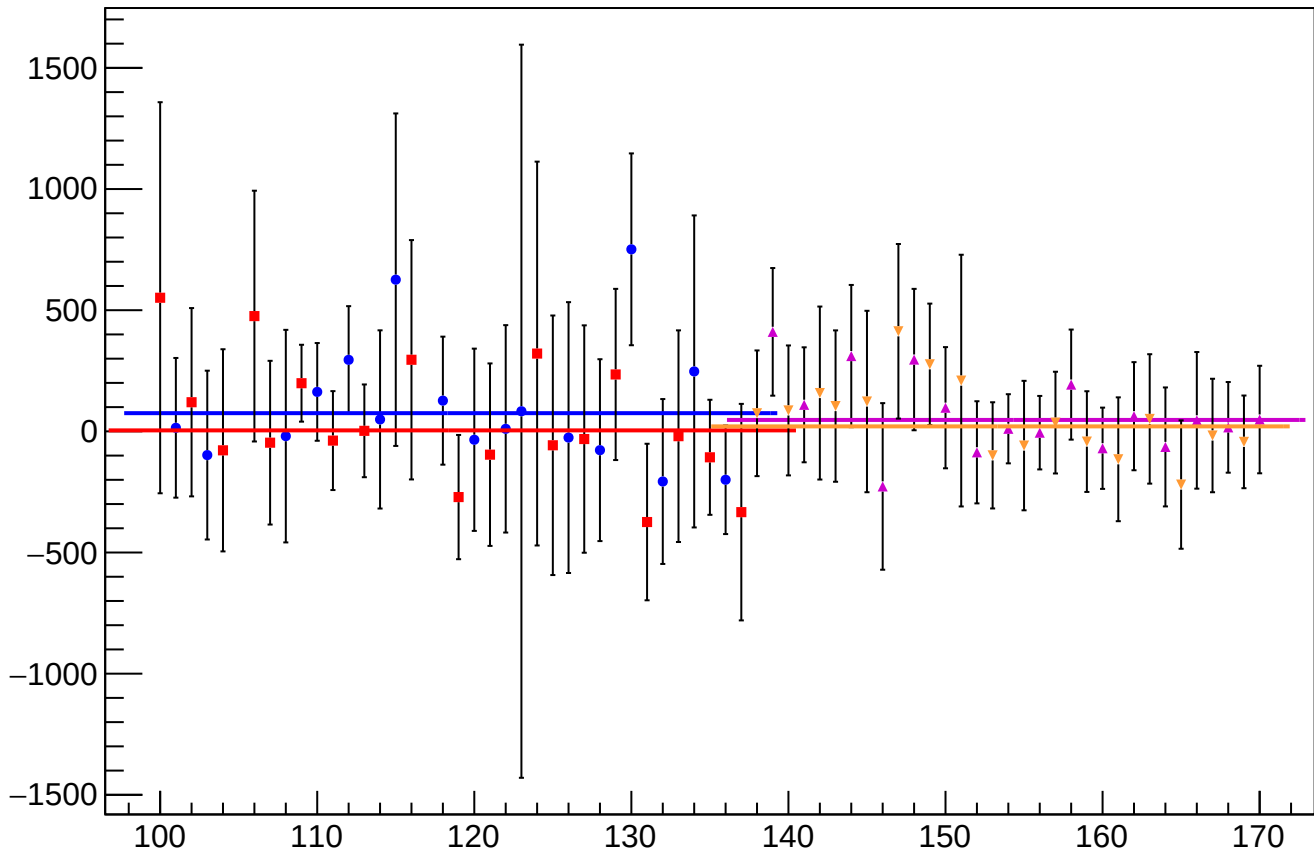
Right: 10.675 $\pm$ 0.002 χ^2 /NDF: 338695.4/35

In: 10.656 $\pm$ 0.002 χ^2 /NDF:296524.5/32

Out: 10.747 $\pm$ 0.002 χ^2 /NDF:291645.2/35

All: 10.702 $\pm$ 0.001 χ^2 /NDF: 589555.1/68

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 75.086 $\pm$ 80.352 χ^2 /NDF: 7.7/16

Left Out: 20.514 $\pm$ 63.093 χ^2 /NDF: 4.5/16

Right Out: 3.999 $\pm$ 70.883 χ^2 /NDF: 7.3/18

Left In: 47.150 $\pm$ 53.591 χ^2 /NDF: 5.9/15

Left: 35.987 $\pm$ 40.845 χ^2 /NDF: 10.5/32

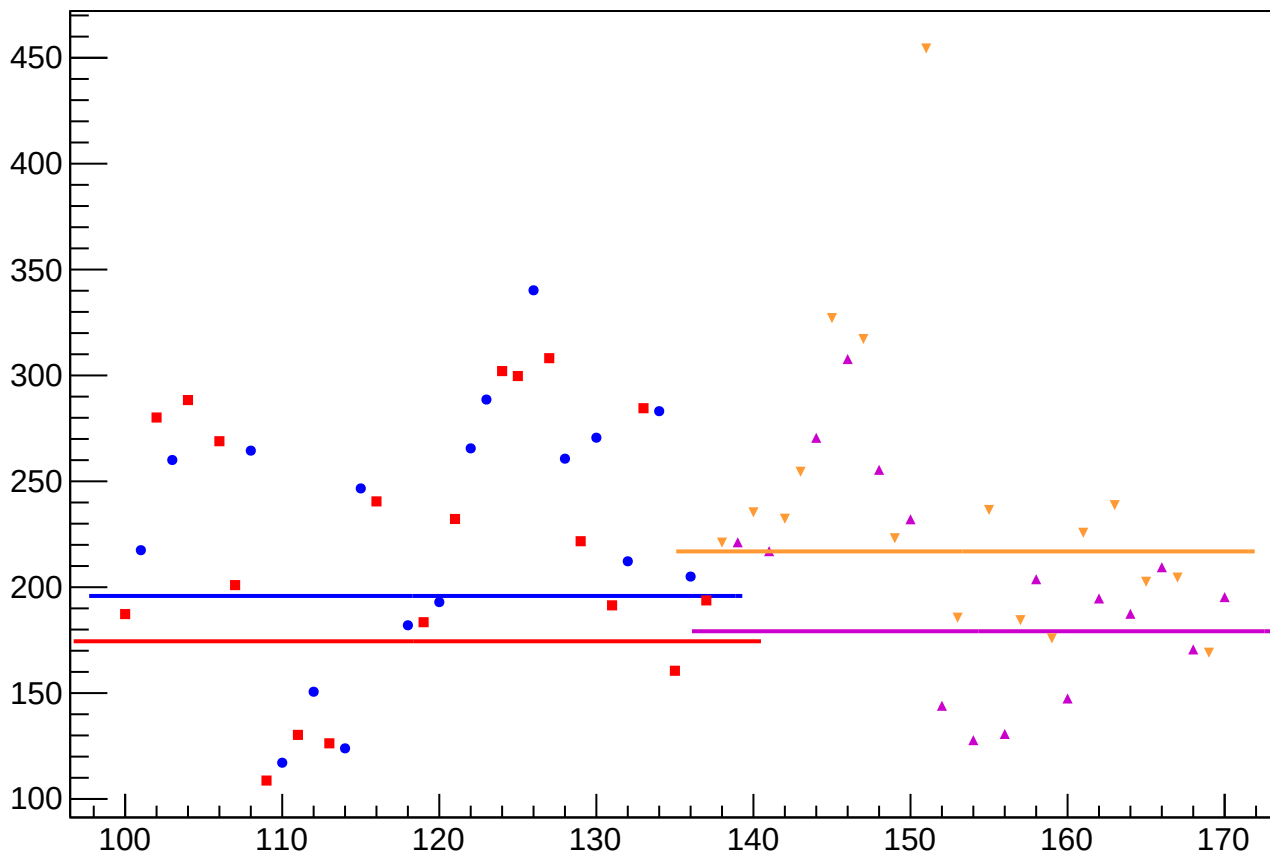
Right: 35.109 $\pm$ 53.156 χ^2 /NDF: 15.5/35

In: 55.751 $\pm$ 44.584 χ^2 /NDF: 13.7/32

Out: 13.213 $\pm$ 47.128 χ^2 /NDF: 11.9/35

All: 35.661 $\pm$ 32.388 χ^2 /NDF: 26.0/68

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.869 $\pm$ 0.057 χ^2 /NDF: 979247.4/16

Left Out: 216.907 $\pm$ 0.045 χ^2 /NDF: 1120293.4/16

Right Out: 174.465 $\pm$ 0.050 χ^2 /NDF: 1528778.5/18

Left In: 179.205 $\pm$ 0.038 χ^2 /NDF: 1465939.5/15

Left: 195.006 $\pm$ 0.029 χ^2 /NDF: 3001093.3/32

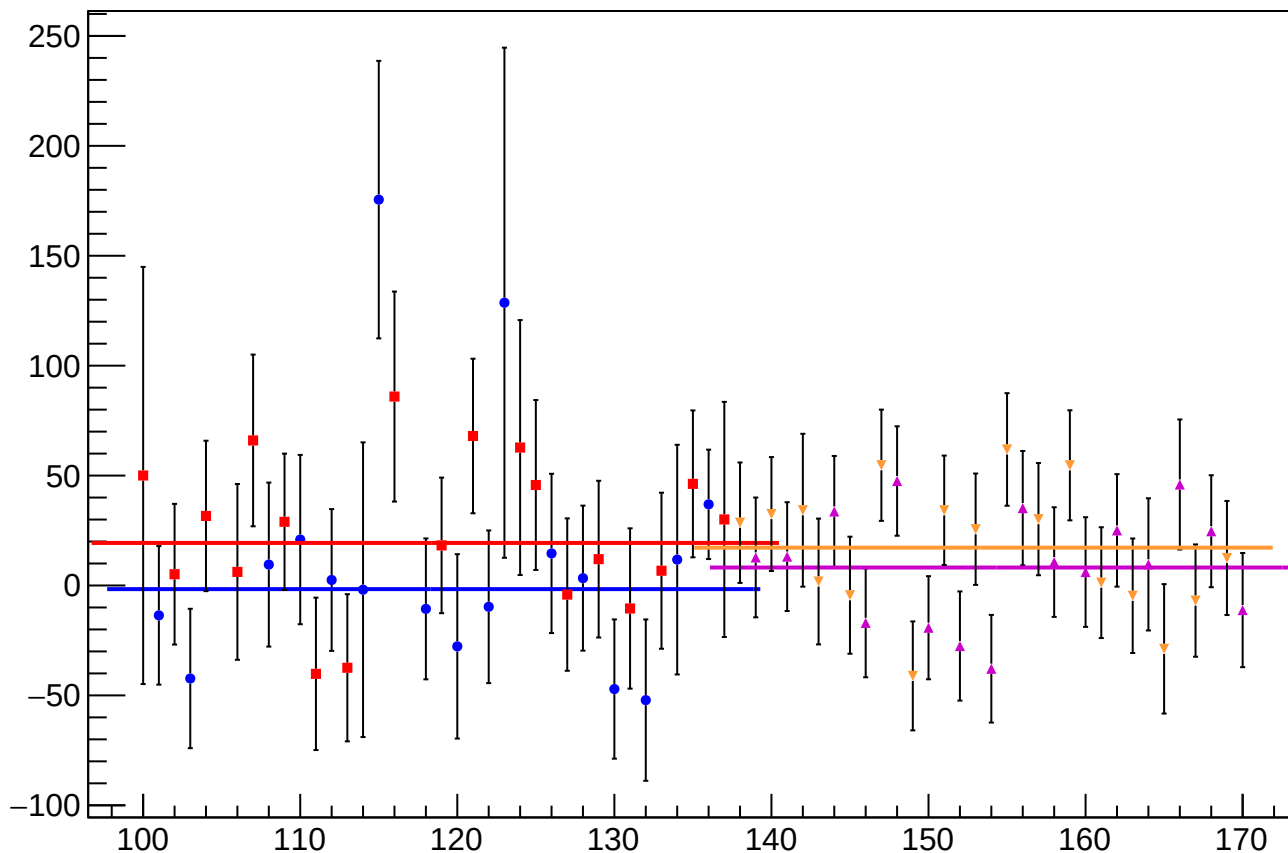
Right: 183.832 $\pm$ 0.038 χ^2 /NDF: 2587830.9/35

In: 184.335 $\pm$ 0.032 χ^2 /NDF: 2504723.0/32

Out: 198.146 $\pm$ 0.033 χ^2 /NDF: 3049134.8/35

All: 190.858 $\pm$ 0.023 χ^2 /NDF: 5644488.6/68

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.654 ± 8.881 χ^2/NDF : 18.5/16

Left Out: 17.217 ± 6.386 χ^2/NDF : 20.0/16

Right Out: 19.357 ± 8.556 χ^2/NDF : 14.8/18

Left In: 8.174 ± 6.403 χ^2/NDF : 15.7/15

Left: 12.707 ± 4.522 χ^2/NDF : 36.8/32

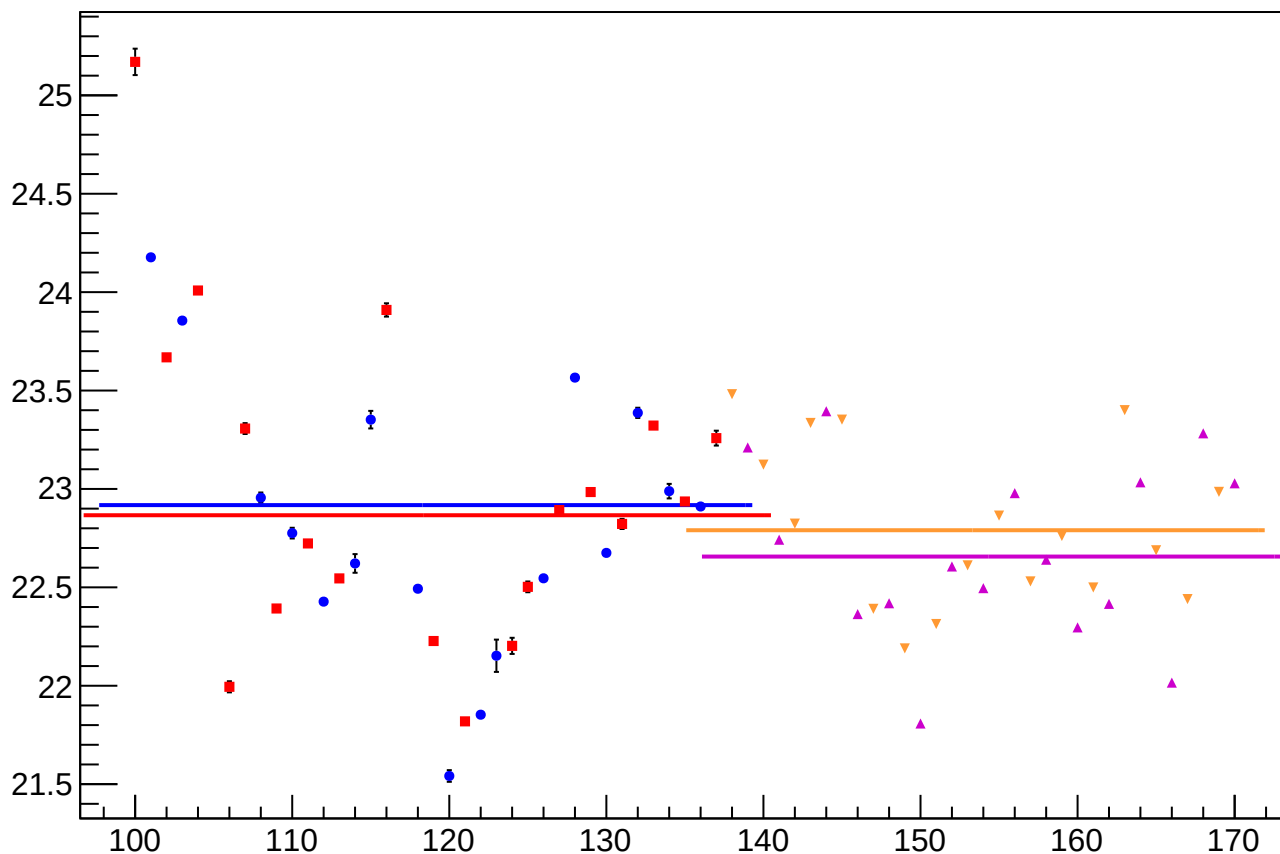
Right: 9.244 ± 6.162 χ^2/NDF : 36.2/35

In: 4.813 ± 5.194 χ^2/NDF : 35.1/32

Out: 17.983 ± 5.118 χ^2/NDF : 34.8/35

All: 11.495 ± 3.645 χ^2/NDF : 73.2/68

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.918 $\pm$ 0.006 χ^2 /NDF: 11472.2/16

Left Out: 22.790 $\pm$ 0.005 χ^2 /NDF: 7831.9/16

Right Out: 22.866 $\pm$ 0.006 χ^2 /NDF: 11052.6/18

Left In: 22.656 $\pm$ 0.005 χ^2 /NDF: 9503.8/15

Left: 22.723 $\pm$ 0.003 χ^2 /NDF: 17773.6/32

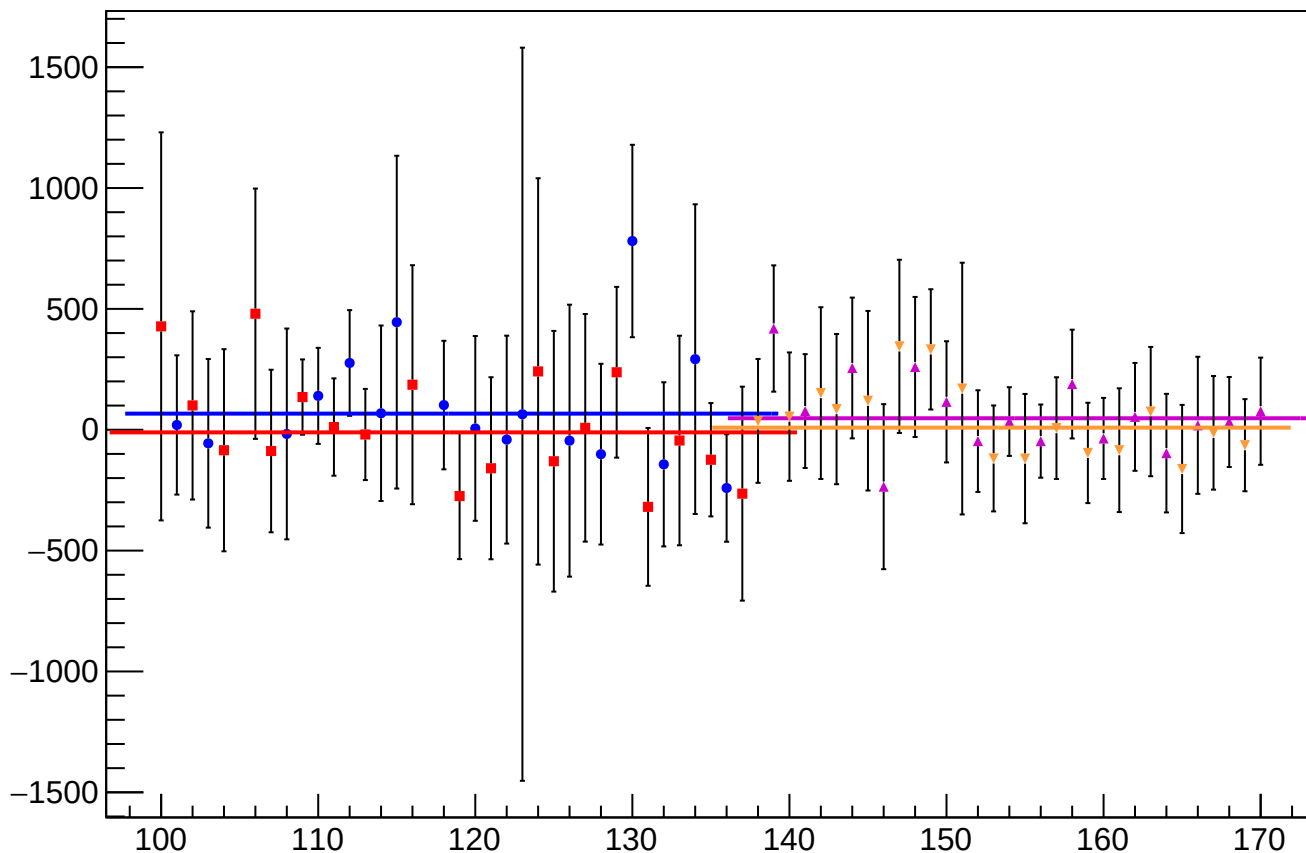
Right: 22.891 $\pm$ 0.004 χ^2 /NDF: 22559.6/35

In: 22.746 $\pm$ 0.004 χ^2 /NDF: 22116.5/32

Out: 22.817 $\pm$ 0.004 χ^2 /NDF: 18986.3/35

All: 22.782 $\pm$ 0.003 χ^2 /NDF: 41295.9/68

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 66.701 $\pm$ 79.995 χ^2 /NDF: 7.5/16

Left Out: 8.795 $\pm$ 62.962 χ^2 /NDF:4.6/16

Right Out: -10.870 $\pm$ 70.386 χ^2 /NDF: 5.7/18

Left In: 47.517 $\pm$ 53.438 χ^2 /NDF:5.5/15

Left: 31.303 $\pm$ 40.742 χ^2 /NDF: 10.3/32

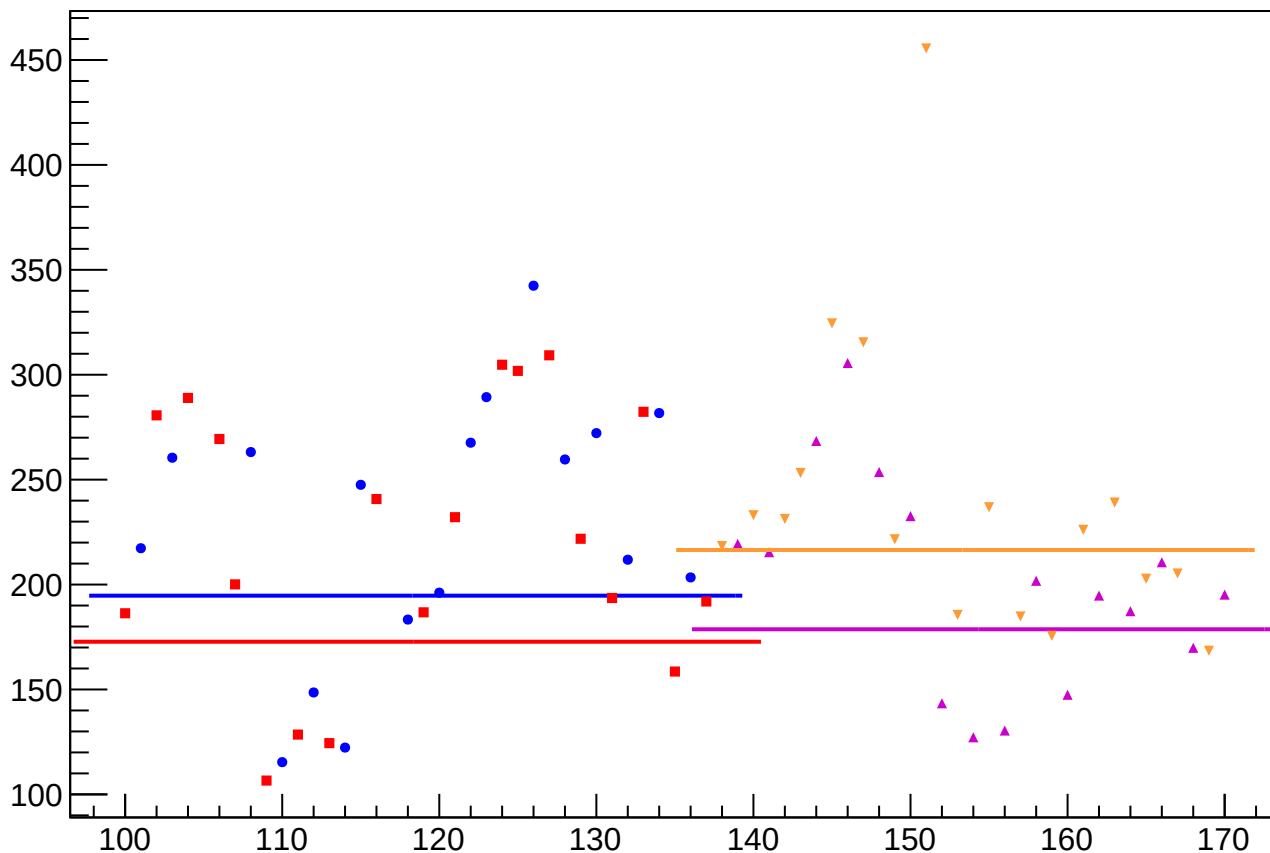
Right: 22.979 $\pm$ 52.843 χ^2 /NDF: 13.8/35

In: 53.436 $\pm$ 44.435 χ^2 /NDF:13.0/32

Out: 0.054 $\pm$ 46.927 χ^2 /NDF:10.3/35

All: 28.200 $\pm$ 32.265 χ^2 /NDF: 24.1/68

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.703+/-0.057 χ^2/NDF : 1019872.4/16

Left Out: 216.469+/-0.045 χ^2/NDF :1111553.9/16

Right Out: 172.753+/-0.050 χ^2/NDF : 1596944.9/18

Left In: 178.691+/-0.038 χ^2/NDF :1455824.5/15

Left: 194.510+/-0.029 χ^2/NDF : 2985915.7/32

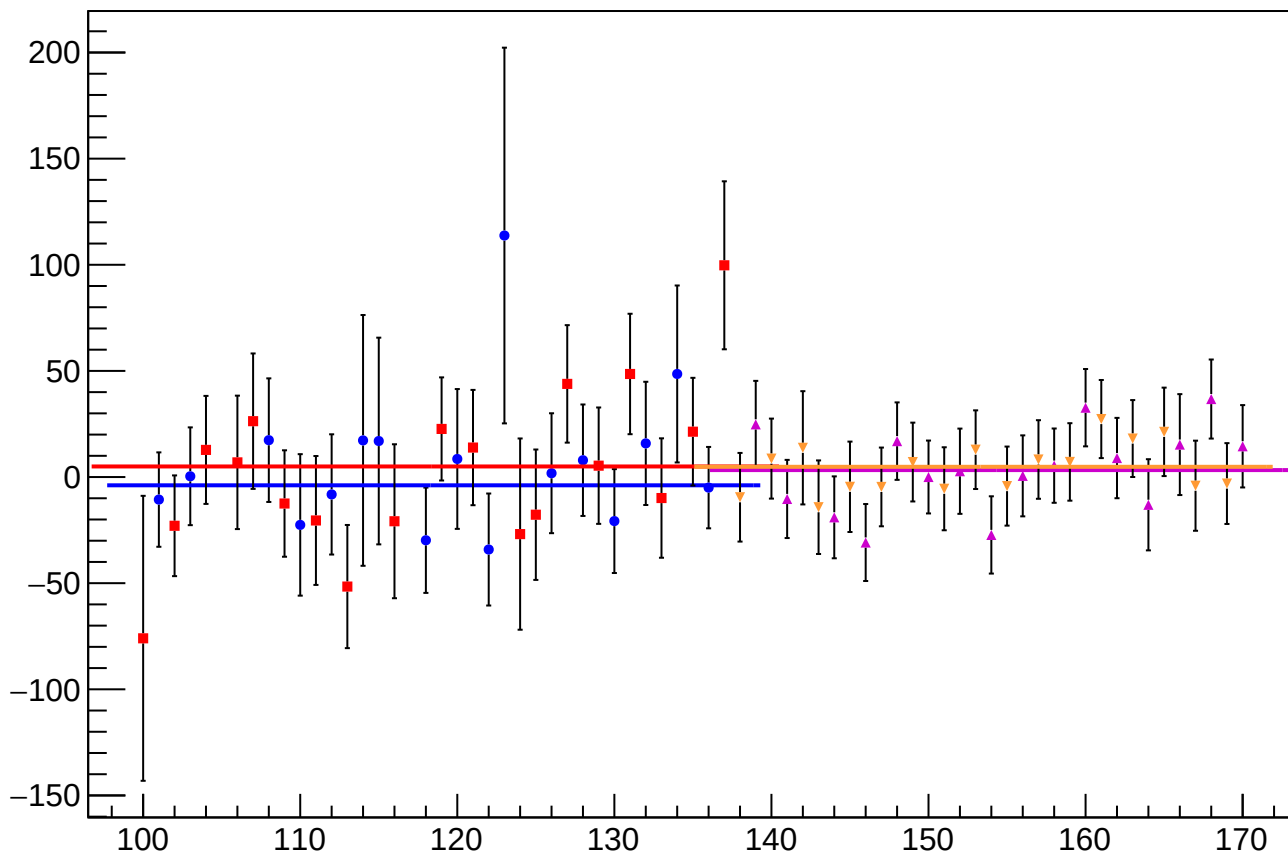
Right: 182.331+/-0.037 χ^2/NDF : 2701685.9/35

In: 183.632+/-0.031 χ^2/NDF :2531100.2/32

Out: 197.038+/-0.033 χ^2/NDF :3137062.3/35

All: 189.969+/-0.023 χ^2/NDF : 5754223.3/68

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.894 ± 6.915 χ^2/NDF : 8.4/16

Left Out: 4.826 ± 4.757 χ^2/NDF : 5.6/16

Right Out: 4.985 ± 6.727 χ^2/NDF : 21.3/18

Left In: 3.276 ± 4.754 χ^2/NDF : 17.1/15

Left: 4.050 ± 3.362 χ^2/NDF : 22.7/32

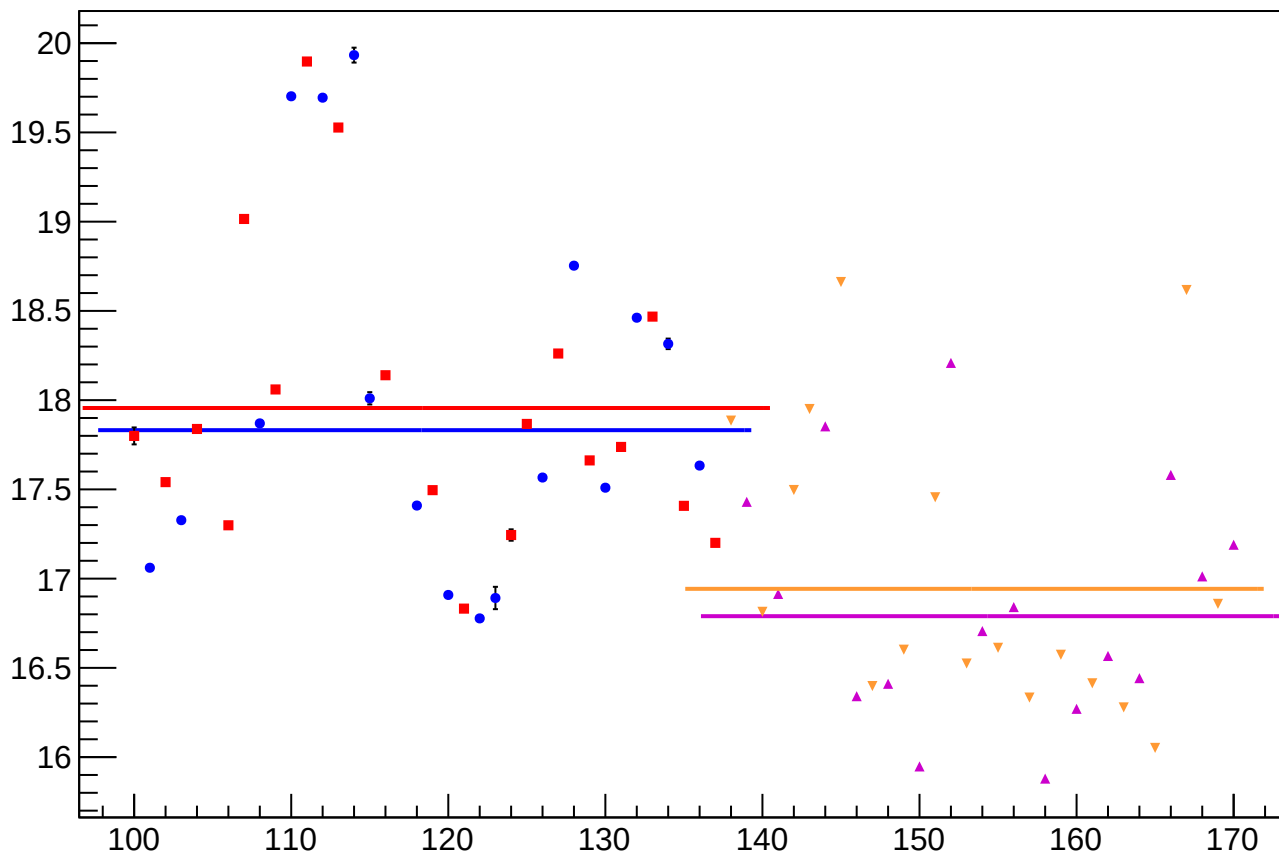
Right: 0.668 ± 4.822 χ^2/NDF : 30.6/35

In: 0.975 ± 3.917 χ^2/NDF : 26.2/32

Out: 4.879 ± 3.884 χ^2/NDF : 26.9/35

All: 2.944 ± 2.758 χ^2/NDF : 53.6/68

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.832 $\pm$ 0.005 χ^2 /NDF: 30863.4/16

Left Out: 16.943 $\pm$ 0.003 χ^2 /NDF: 51143.2/16

Right Out: 17.956 $\pm$ 0.005 χ^2 /NDF: 25448.9/18

Left In: 16.790 $\pm$ 0.003 χ^2 /NDF: 36247.6/15

Left: 16.866 $\pm$ 0.002 χ^2 /NDF: 88428.4/32

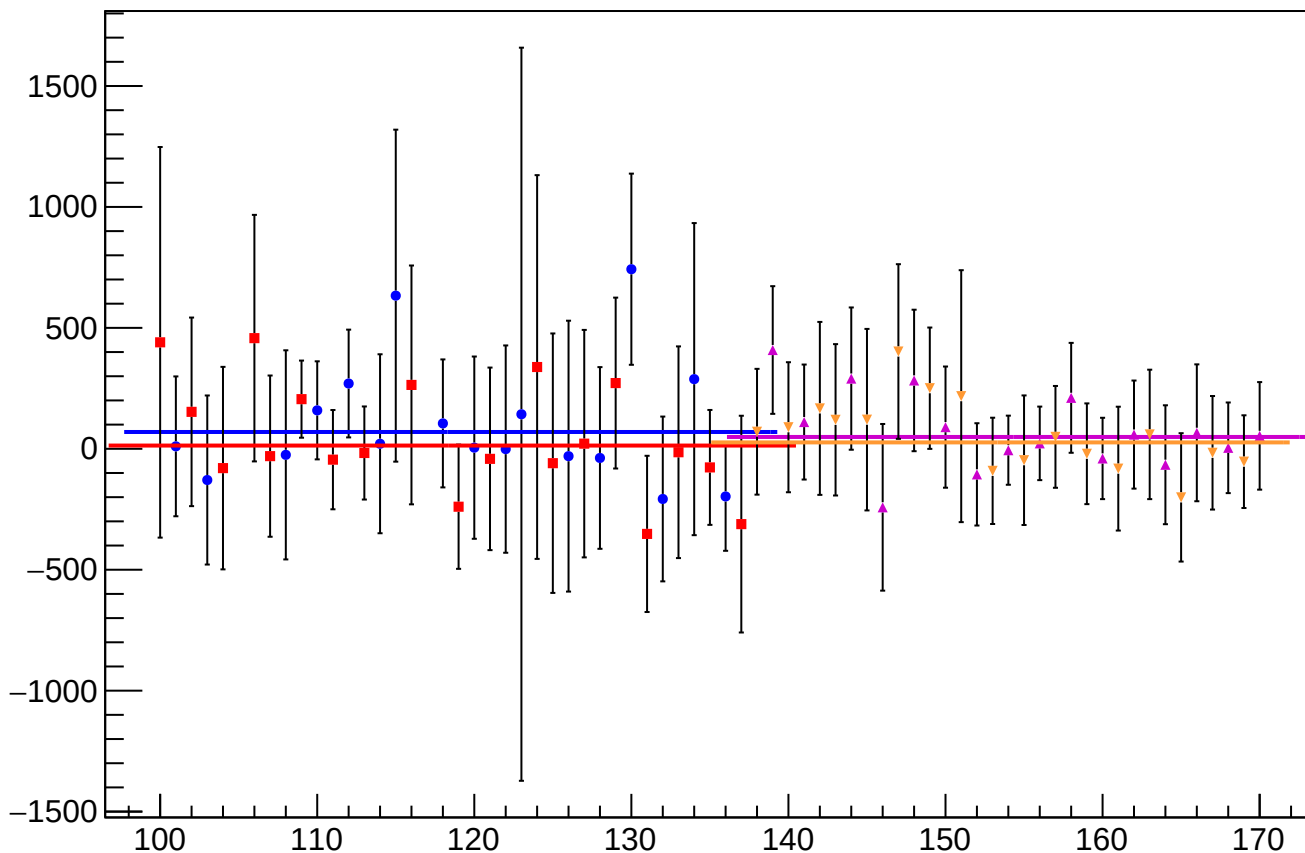
Right: 17.896 $\pm$ 0.003 χ^2 /NDF: 56643.8/35

In: 17.124 $\pm$ 0.003 χ^2 /NDF: 97956.3/32

Out: 17.281 $\pm$ 0.003 χ^2 /NDF: 106838.8/35

All: 17.203 $\pm$ 0.002 χ^2 /NDF: 206404.2/68

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 69.511+/-80.550 χ^2/NDF : 7.4/16

Left Out: 26.411+/-63.234 χ^2/NDF : 4.0/16

Right Out: 13.410+/-71.041 χ^2/NDF : 6.7/18

Left In: 48.956+/-53.700 χ^2/NDF : 5.8/15

Left: 39.510+/-40.932 χ^2/NDF : 9.8/32

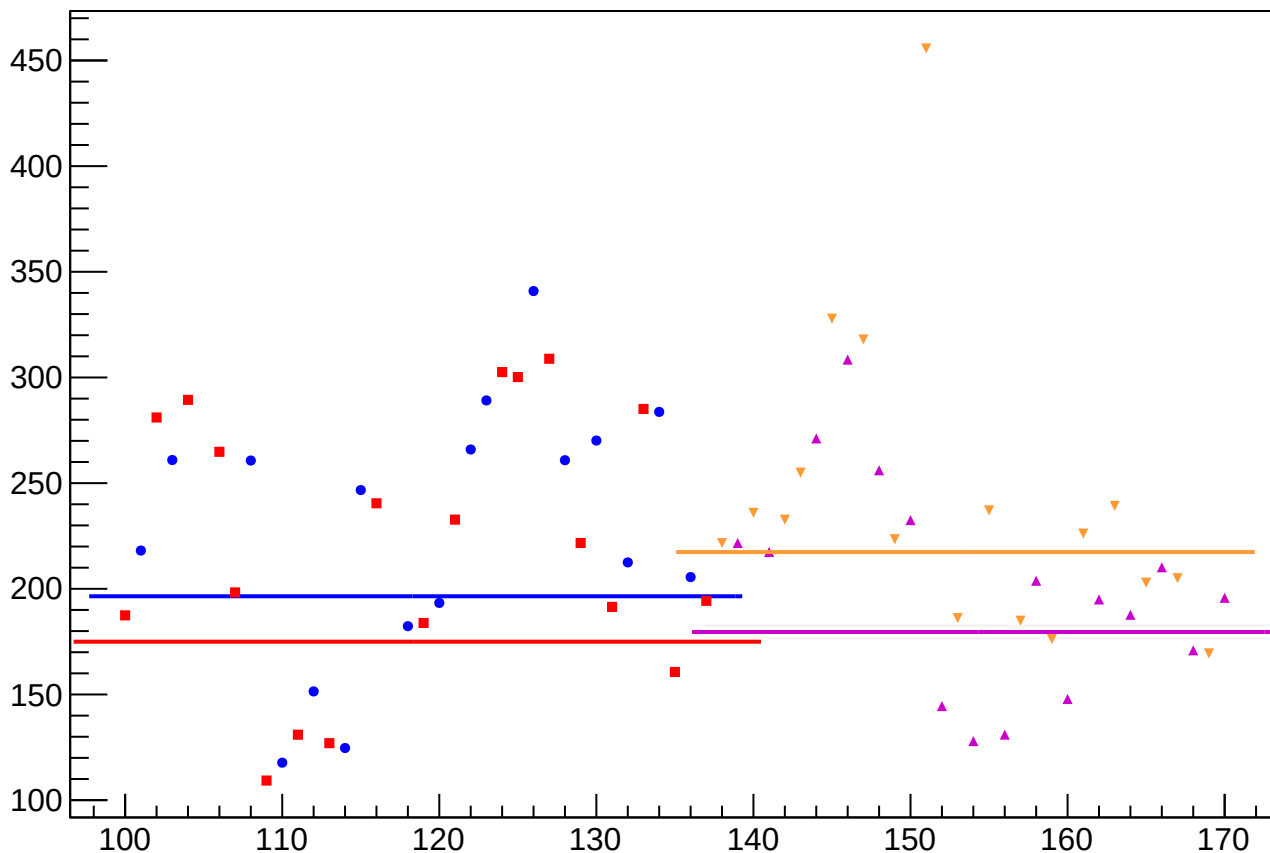
Right: 37.955+/-53.280 χ^2/NDF : 14.4/35

In: 55.280+/-44.681 χ^2/NDF : 13.2/32

Out: 20.664+/-47.233 χ^2/NDF : 10.7/35

All: 38.933+/-32.459 χ^2/NDF : 24.2/68

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.470 $\pm$ 0.057 χ^2 /NDF: 964281.5/16

Left Out: 217.388 $\pm$ 0.045 χ^2 /NDF:1120467.9/16

Right Out: 174.981 $\pm$ 0.050 χ^2 /NDF: 1511102.3/18

Left In: 179.569 $\pm$ 0.038 χ^2 /NDF:1465726.9/15

Left: 195.415 $\pm$ 0.029 χ^2 /NDF: 3001852.7/32

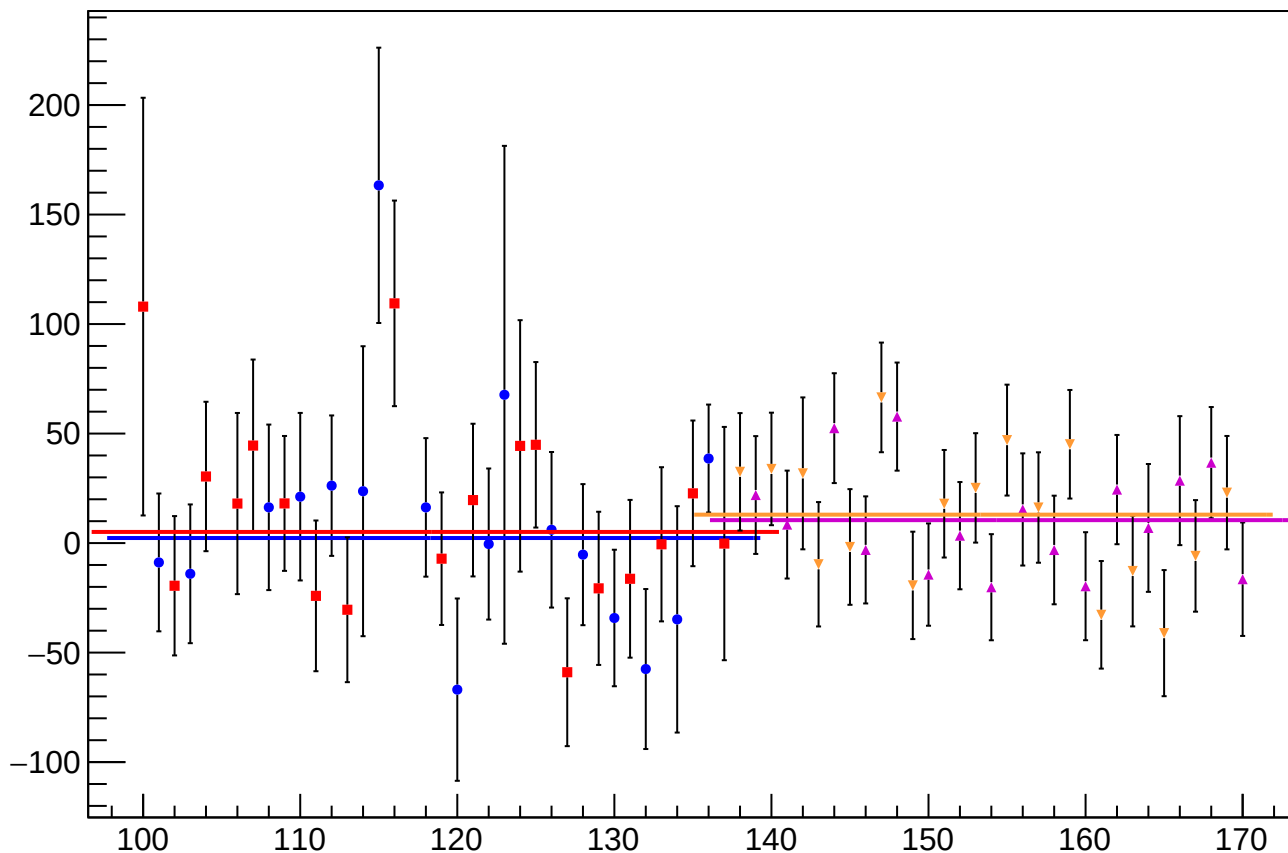
Right: 184.383 $\pm$ 0.038 χ^2 /NDF: 2555448.8/35

In: 184.769 $\pm$ 0.032 χ^2 /NDF:2490970.4/32

Out: 198.642 $\pm$ 0.033 χ^2 /NDF:3029198.2/35

All: 191.321 $\pm$ 0.023 χ^2 /NDF: 5611223.3/68

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.307 ± 8.805 $\chi^2/\text{NDF}: 18.1/16$

Left Out: 12.978 ± 6.305 $\chi^2/\text{NDF}: 21.3/16$

Right Out: 5.089 ± 8.479 $\chi^2/\text{NDF}: 17.1/18$

Left In: 10.468 ± 6.336 $\chi^2/\text{NDF}: 14.5/15$

Left: 11.729 ± 4.469 $\chi^2/\text{NDF}: 35.8/32$

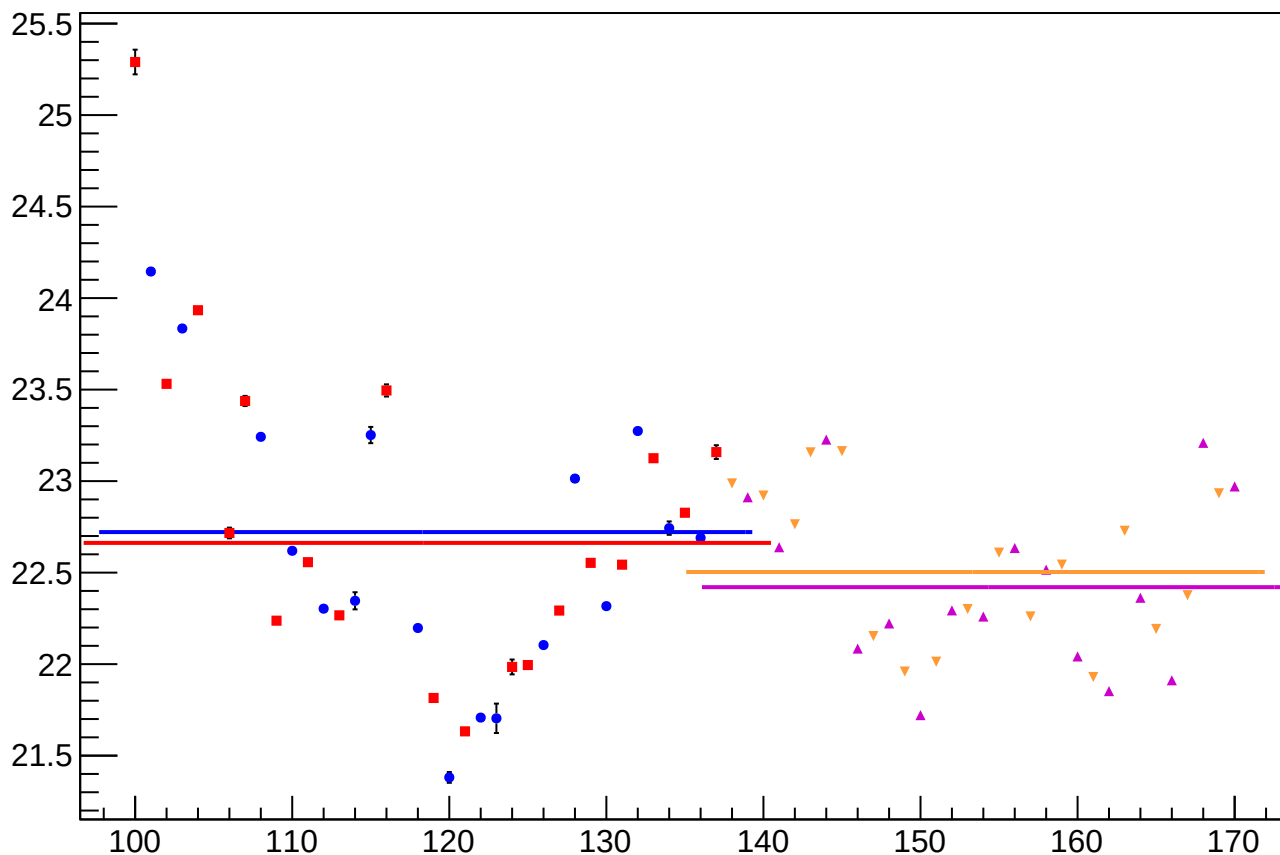
Right: 3.750 ± 6.108 $\chi^2/\text{NDF}: 35.3/35$

In: 7.684 ± 5.143 $\chi^2/\text{NDF}: 33.1/32$

Out: 10.169 ± 5.060 $\chi^2/\text{NDF}: 39.0/35$

All: 8.947 ± 3.607 $\chi^2/\text{NDF}: 72.2/68$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.722 $\pm$ 0.006 χ^2 /NDF: 13580.6/16

Left Out: 22.503 $\pm$ 0.004 χ^2 /NDF:8218.2/16

Right Out: 22.662 $\pm$ 0.006 χ^2 /NDF: 12955.6/18

Left In: 22.421 $\pm$ 0.004 χ^2 /NDF:10444.5/15

Left: 22.462 $\pm$ 0.003 χ^2 /NDF: 18834.5/32

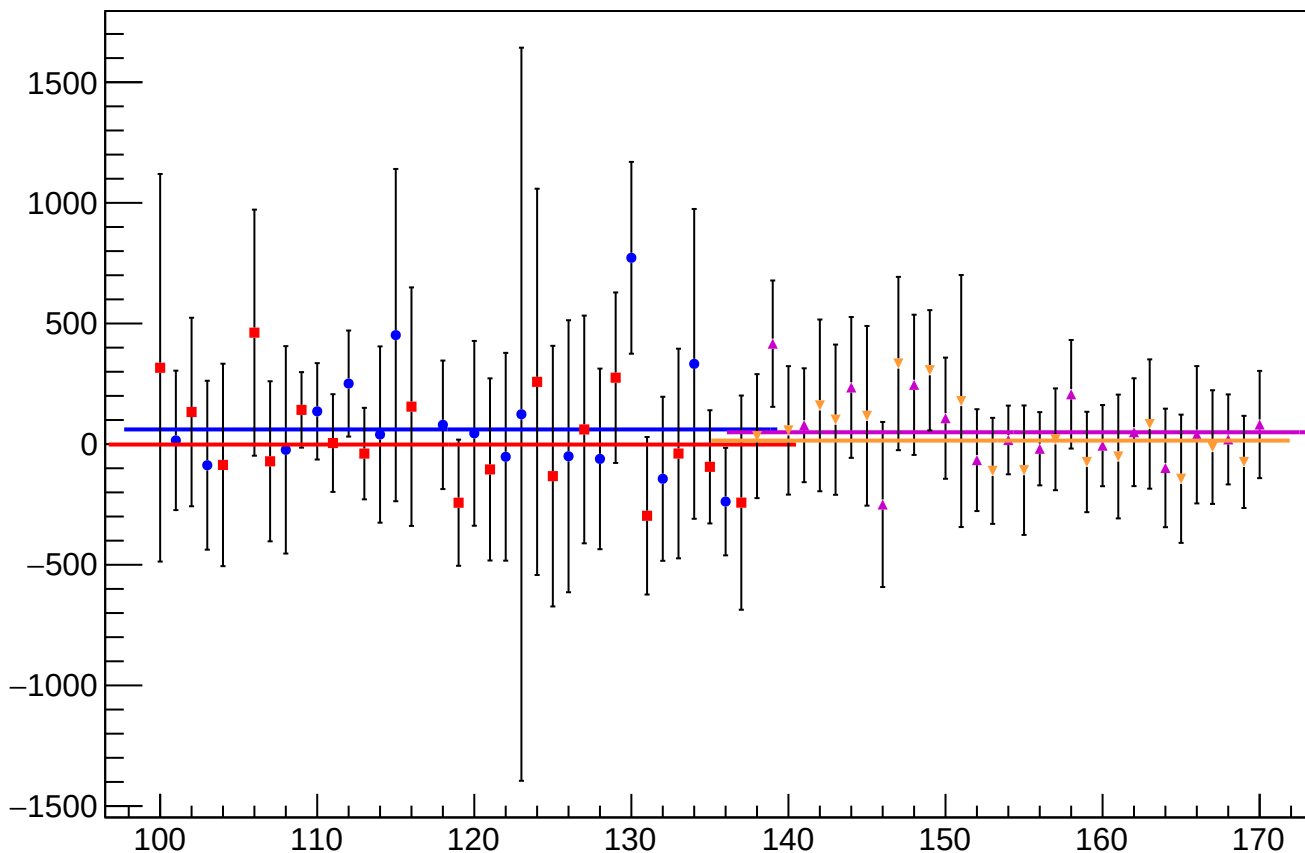
Right: 22.691 $\pm$ 0.004 χ^2 /NDF: 26582.8/35

In: 22.523 $\pm$ 0.004 χ^2 /NDF:25564.1/32

Out: 22.560 $\pm$ 0.004 χ^2 /NDF:21626.5/35

All: 22.542 $\pm$ 0.003 χ^2 /NDF: 47242.7/68

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 60.960 $\pm$ 80.197 χ^2 /NDF: 7.2/16

Left Out: 14.762 $\pm$ 63.102 χ^2 /NDF:4.0/16

Right Out: -1.647 $\pm$ 70.549 χ^2 /NDF: 5.2/18

Left In: 49.254 $\pm$ 53.546 χ^2 /NDF:5.2/15

Left: 34.815 $\pm$ 40.828 χ^2 /NDF: 9.4/32

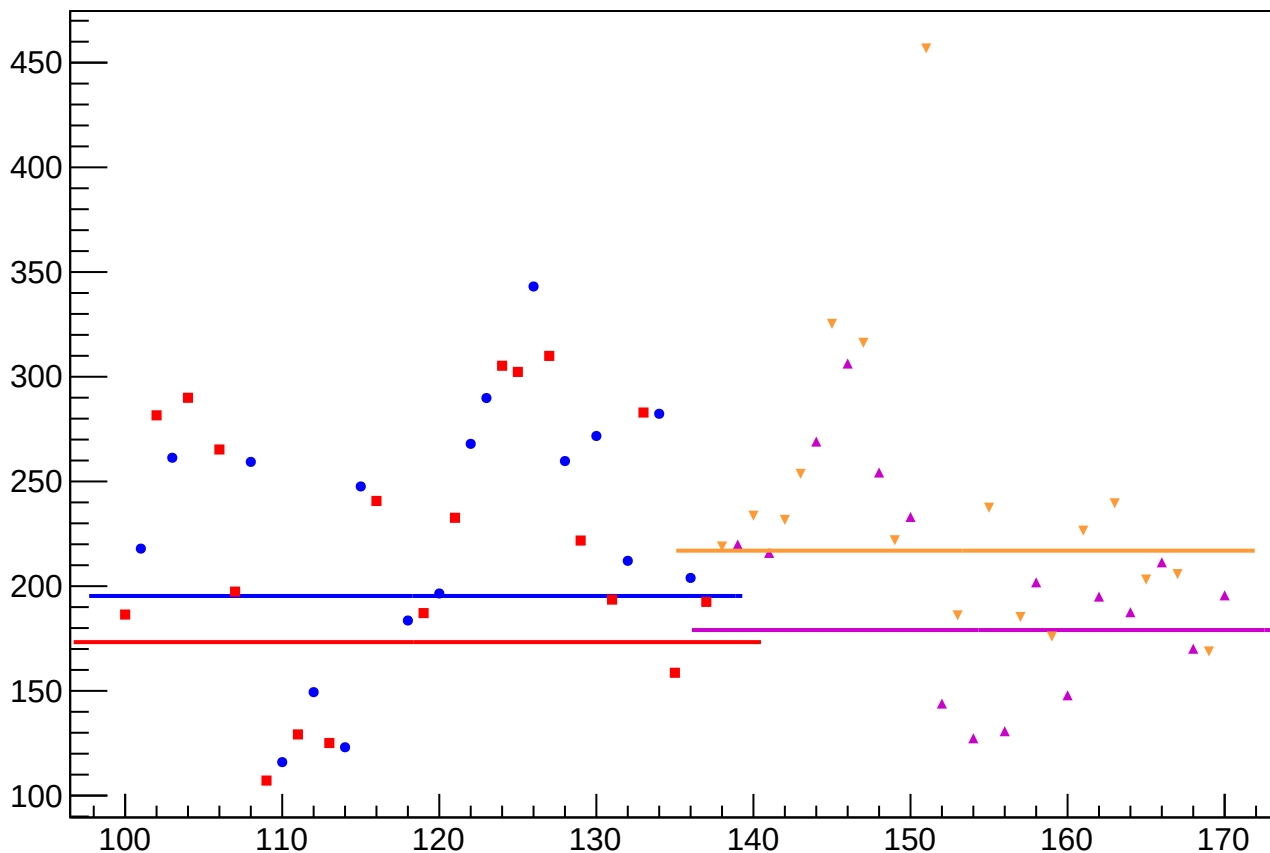
Right: 25.666 $\pm$ 52.970 χ^2 /NDF: 12.7/35

In: 52.863 $\pm$ 44.532 χ^2 /NDF:12.5/32

Out: 7.469 $\pm$ 47.033 χ^2 /NDF:9.2/35

All: 31.405 $\pm$ 32.337 χ^2 /NDF: 22.2/68

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.316+/-0.057 χ^2/NDF : 1004211.5/16

Left Out: 216.949+/-0.045 χ^2/NDF :1111742.5/16

Right Out: 173.285+/-0.050 χ^2/NDF : 1578382.8/18

Left In: 179.053+/-0.038 χ^2/NDF :1455707.5/15

Left: 194.917+/-0.029 χ^2/NDF : 2986801.3/32

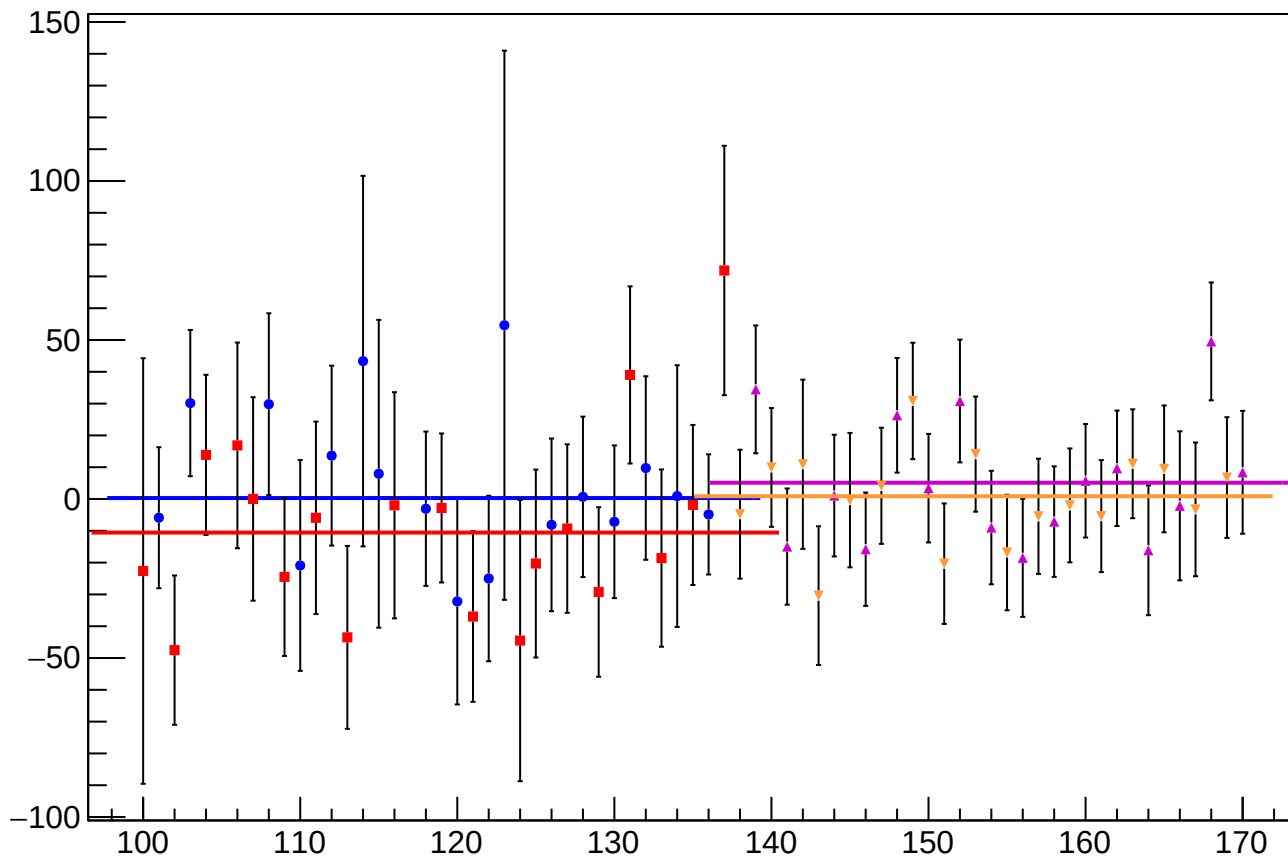
Right: 182.896+/-0.037 χ^2/NDF : 2667678.3/35

In: 184.067+/-0.031 χ^2/NDF :2516804.0/32

Out: 197.542+/-0.033 χ^2/NDF :3115730.6/35

All: 190.437+/-0.023 χ^2/NDF : 5719093.8/68

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.305 ± 6.812 $\chi^2/\text{NDF}: 6.8/16$

Left Out: 0.875 ± 4.649 $\chi^2/\text{NDF}: 8.9/16$

Right Out: -10.553 ± 6.628 $\chi^2/\text{NDF}: 16.0/18$

Left In: 5.125 ± 4.668 $\chi^2/\text{NDF}: 17.7/15$

Left: 2.991 ± 3.294 $\chi^2/\text{NDF}: 27.0/32$

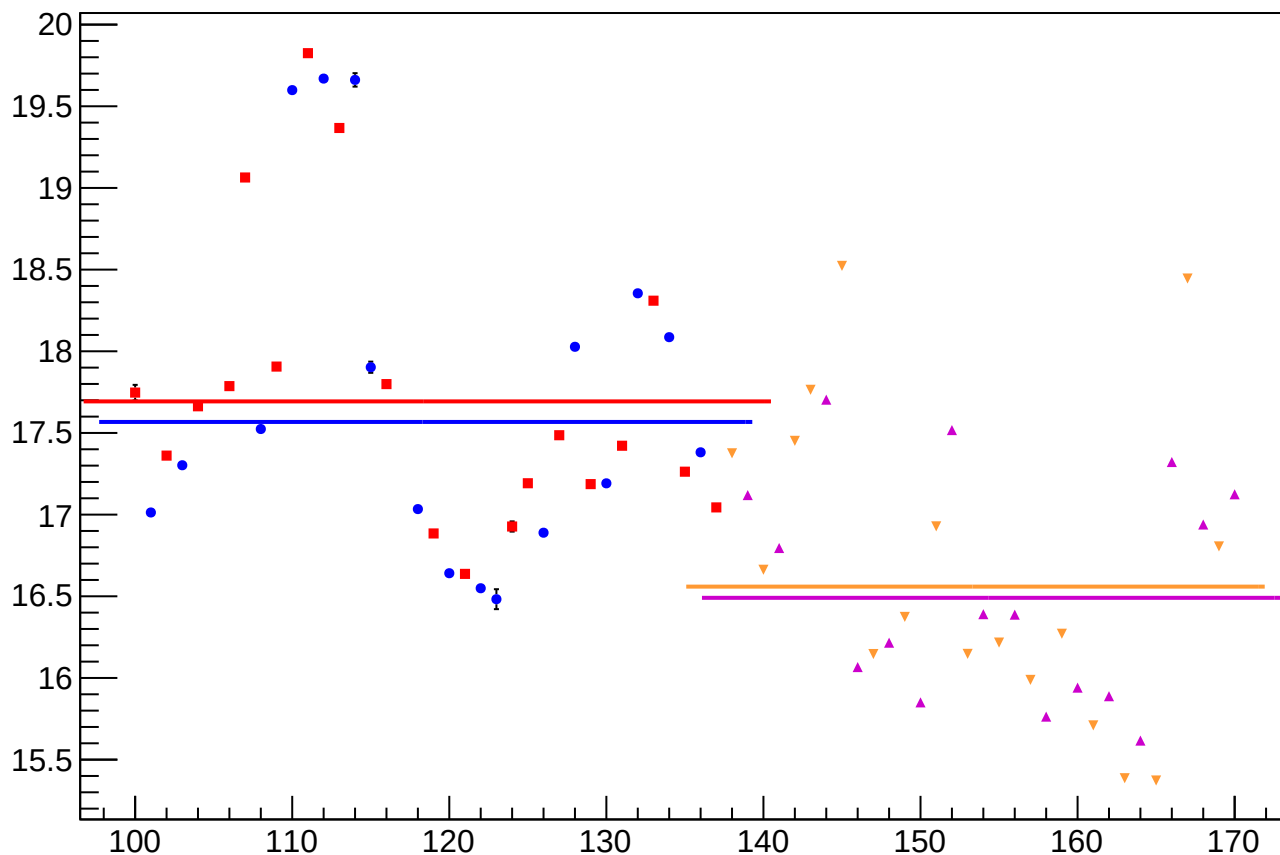
Right: -5.273 ± 4.751 $\chi^2/\text{NDF}: 24.1/35$

In: 3.585 ± 3.851 $\chi^2/\text{NDF}: 24.8/32$

Out: -2.894 ± 3.806 $\chi^2/\text{NDF}: 26.9/35$

All: 0.308 ± 2.707 $\chi^2/\text{NDF}: 53.2/68$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.567 $\pm$ 0.005 χ^2 /NDF: 33145.0/16

Left Out: 16.559 $\pm$ 0.003 χ^2 /NDF: 72713.2/16

Right Out: 17.693 $\pm$ 0.005 χ^2 /NDF: 30767.1/18

Left In: 16.491 $\pm$ 0.003 χ^2 /NDF: 37881.4/15

Left: 16.525 $\pm$ 0.002 χ^2 /NDF: 110811.4/32

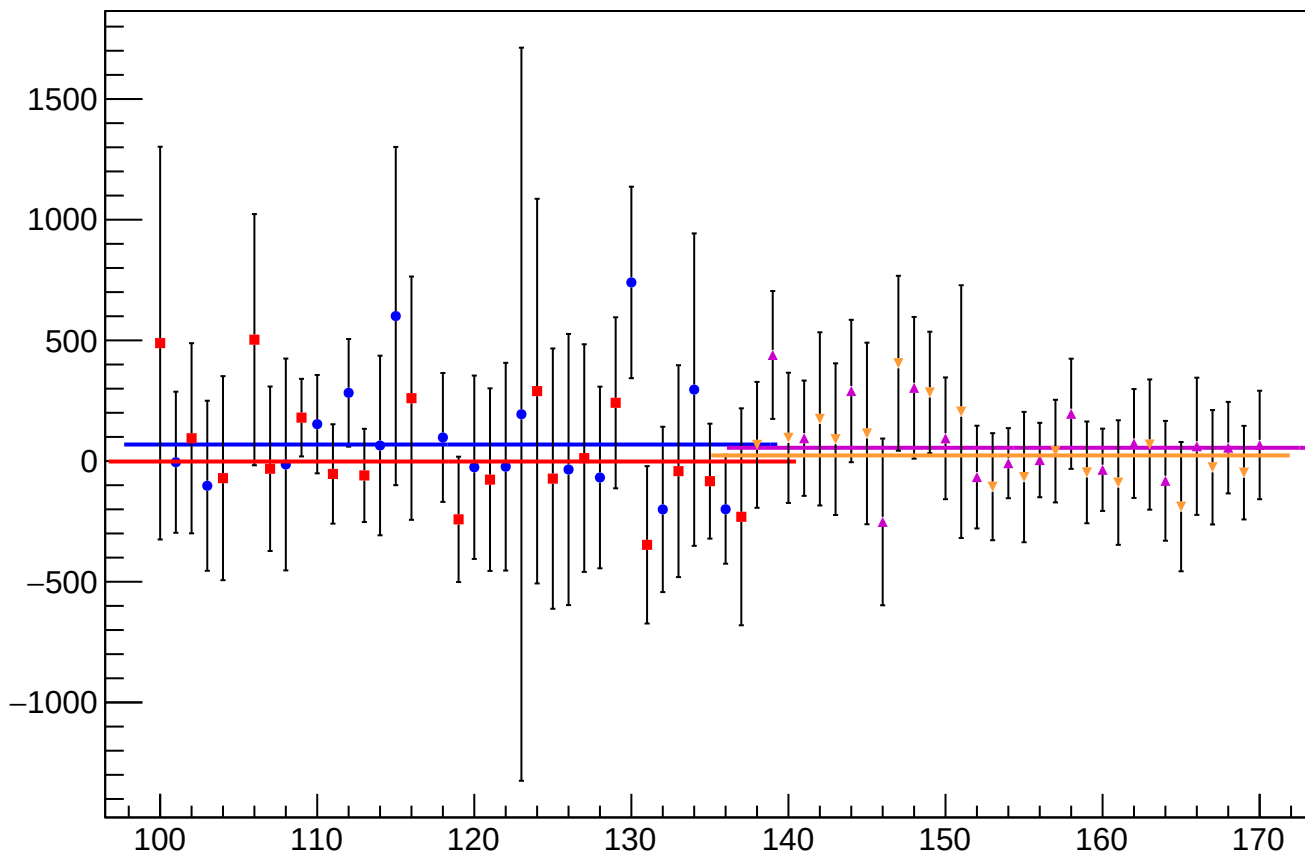
Right: 17.632 $\pm$ 0.003 χ^2 /NDF: 64262.5/35

In: 16.835 $\pm$ 0.003 χ^2 /NDF: 105028.1/32

Out: 16.933 $\pm$ 0.003 χ^2 /NDF: 142716.6/35

All: 16.885 $\pm$ 0.002 χ^2 /NDF: 248407.3/68

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 68.553+/-81.018 χ^2/NDF : 7.3/16

Left Out: 23.344+/-63.723 χ^2/NDF : 4.3/16

Right Out: -1.831+/-71.538 χ^2/NDF : 6.1/18

Left In: 54.989+/-54.229 χ^2/NDF : 5.9/15

Left: 41.697+/-41.299 χ^2/NDF : 10.3/32

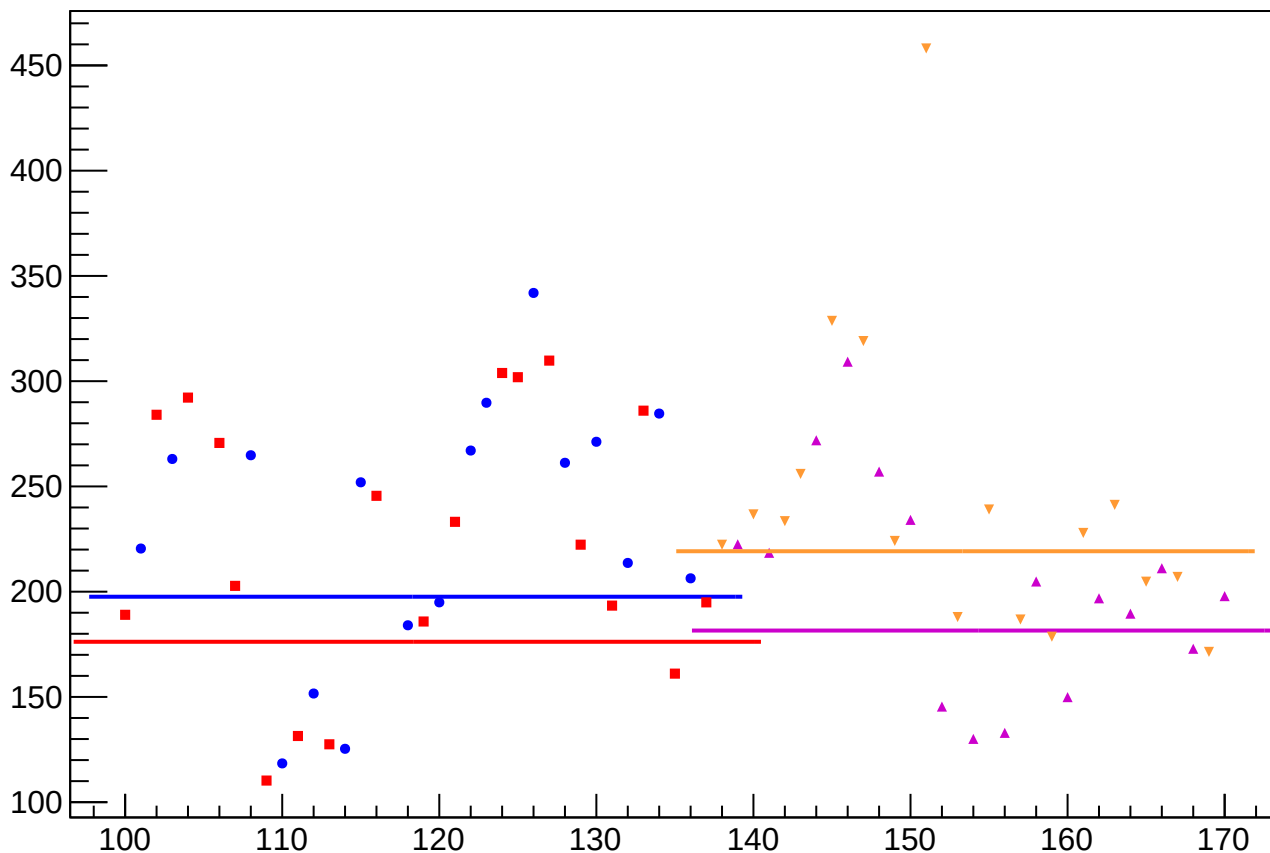
Right: 29.004+/-53.625 χ^2/NDF : 13.9/35

In: 59.186+/-45.065 χ^2/NDF : 13.2/32

Out: 12.206+/-47.583 χ^2/NDF : 10.5/35

All: 36.972+/-32.720 χ^2/NDF : 24.2/68

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.603 $\pm$ 0.057 χ^2 /NDF: 968827.8/16

Left Out: 219.213 $\pm$ 0.045 χ^2 /NDF:1096906.2/16

Right Out: 176.201 $\pm$ 0.051 χ^2 /NDF: 1519832.7/18

Left In: 181.537 $\pm$ 0.038 χ^2 /NDF:1421234.9/15

Left: 197.362 $\pm$ 0.029 χ^2 /NDF: 2923618.8/32

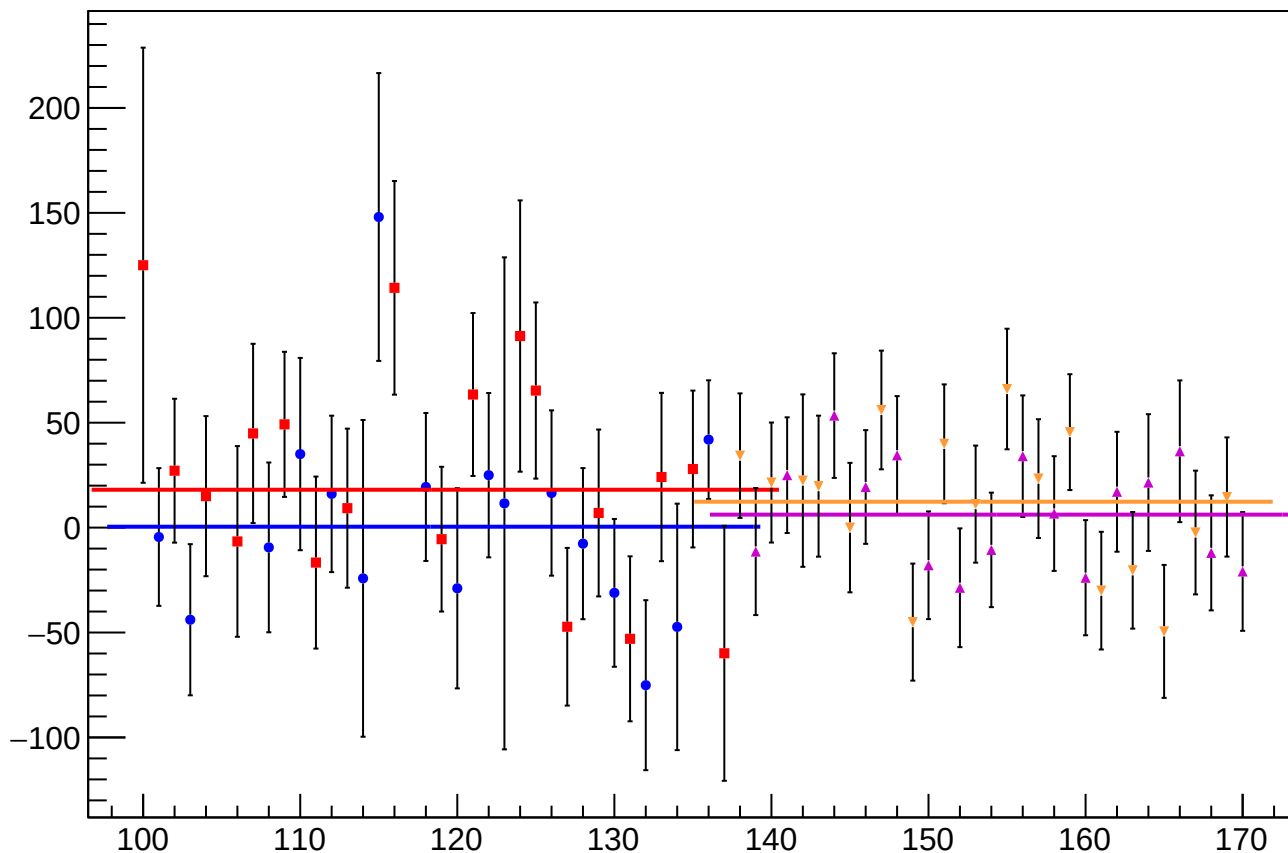
Right: 185.577 $\pm$ 0.038 χ^2 /NDF: 2567082.7/35

In: 186.508 $\pm$ 0.032 χ^2 /NDF:2444376.8/32

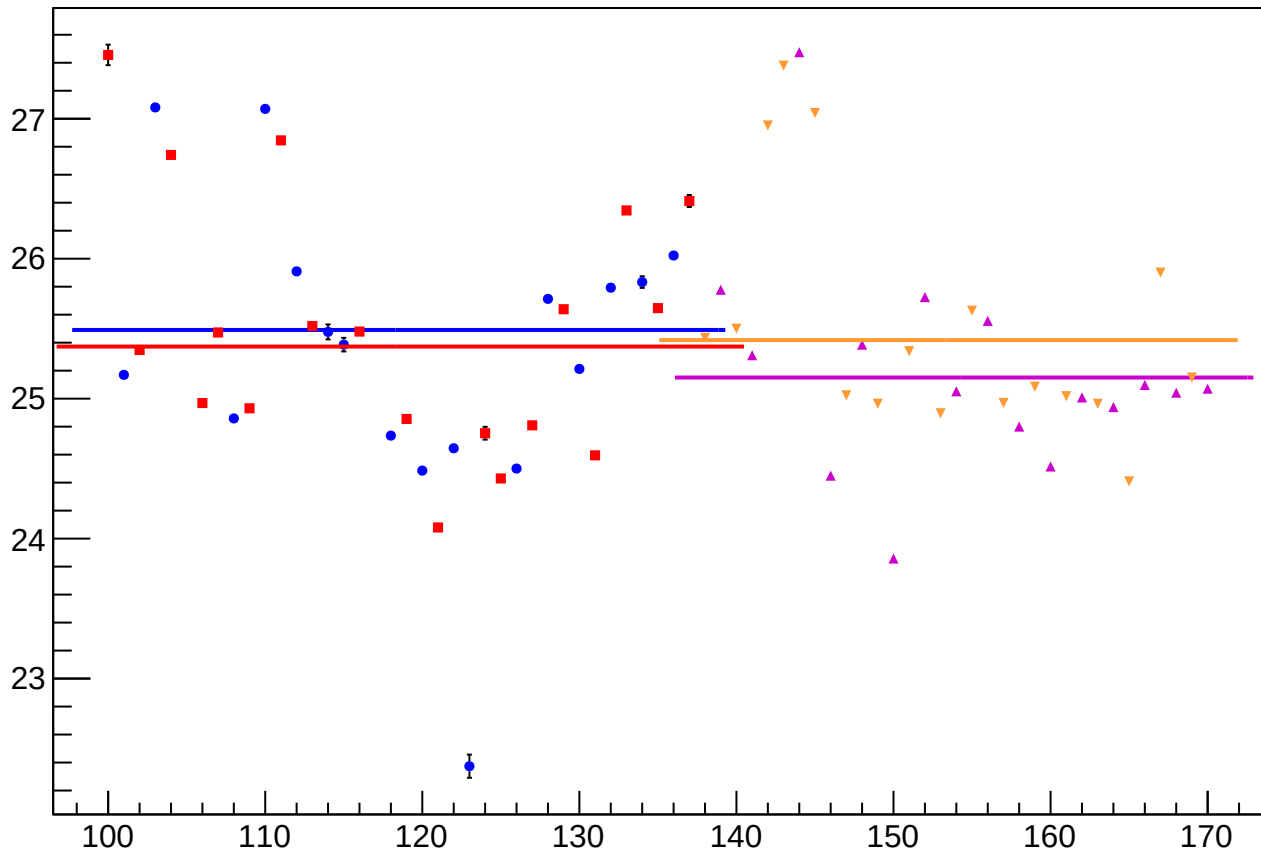
Out: 200.184 $\pm$ 0.034 χ^2 /NDF:3019863.7/35

All: 192.975 $\pm$ 0.023 χ^2 /NDF: 5551329.3/68

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.491 $\pm$ 0.007 χ^2 /NDF: 13713.0/16

Left Out: 25.418 $\pm$ 0.005 χ^2 /NDF:21375.1/16

Right Out: 25.372 $\pm$ 0.007 χ^2 /NDF: 13550.5/18

Left In: 25.151 $\pm$ 0.005 χ^2 /NDF:22563.7/15

Left: 25.284 $\pm$ 0.004 χ^2 /NDF: 45347.3/32

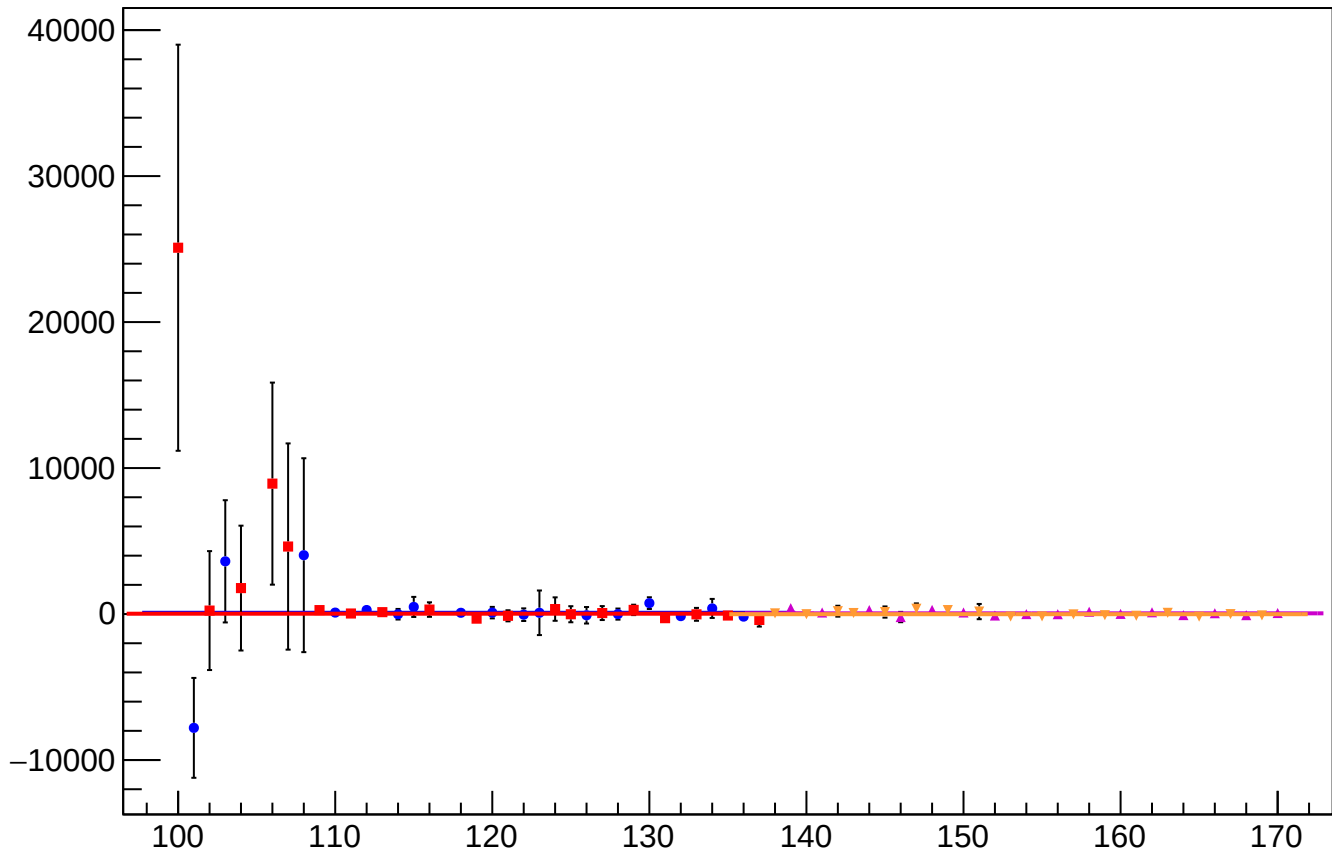
Right: 25.429 $\pm$ 0.005 χ^2 /NDF: 27413.4/35

In: 25.267 $\pm$ 0.004 χ^2 /NDF:37835.0/32

Out: 25.402 $\pm$ 0.004 χ^2 /NDF:34955.6/35

All: 25.335 $\pm$ 0.003 χ^2 /NDF: 73341.5/68

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 86.558 $\pm$ 88.423 χ^2 /NDF: 12.5/16

Left Out: -10.061 $\pm$ 64.132 χ^2 /NDF: 4.7/16

Right Out: 23.352 $\pm$ 80.948 χ^2 /NDF: 11.9/18

Left In: 49.392 $\pm$ 54.847 χ^2 /NDF: 5.5/15

Left: 24.277 $\pm$ 41.683 χ^2 /NDF: 10.6/32

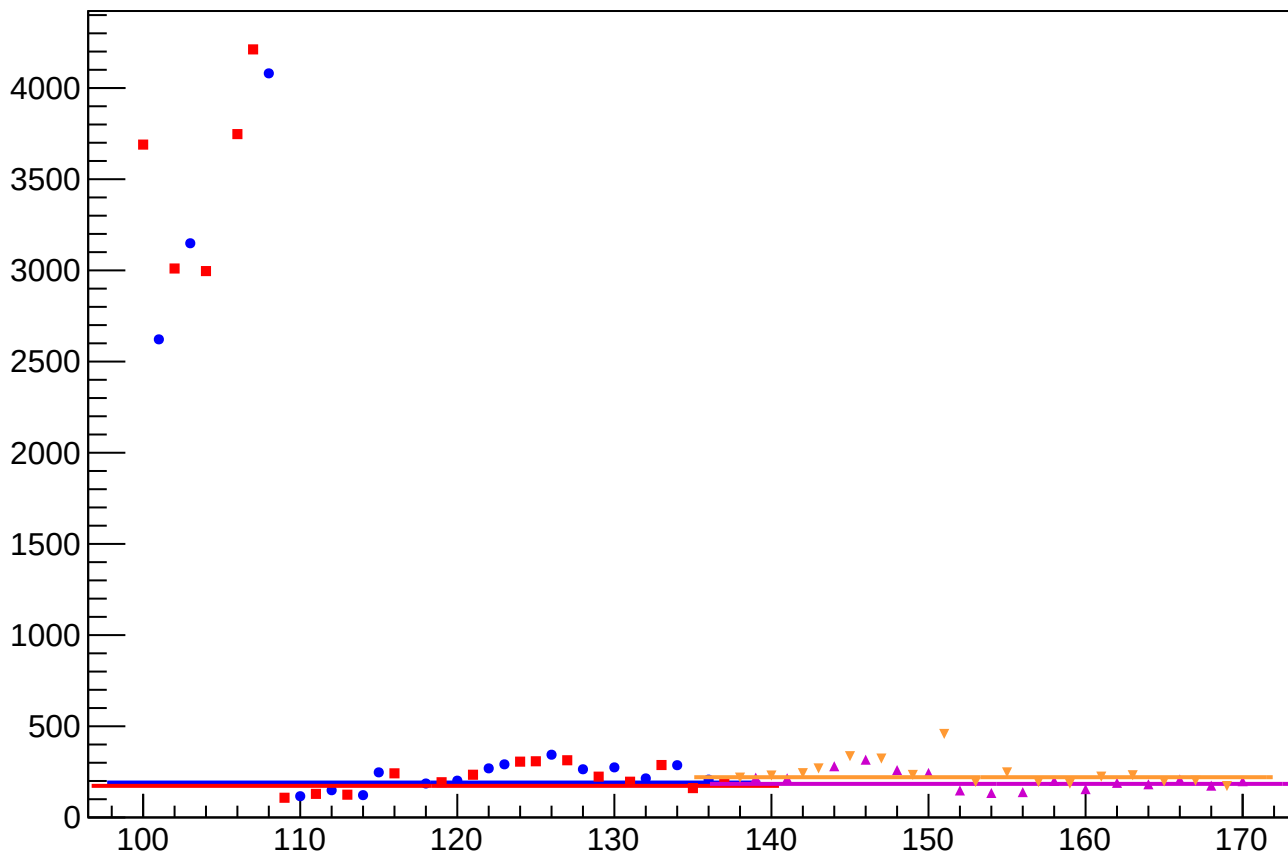
Right: 52.171 $\pm$ 59.707 χ^2 /NDF: 24.7/35

In: 59.719 $\pm$ 46.609 χ^2 /NDF: 18.1/32

Out: 2.824 $\pm$ 50.268 χ^2 /NDF: 16.7/35

All: 33.417 $\pm$ 34.178 χ^2 /NDF: 35.5/68

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.478+/-0.063 χ^2/NDF : 3573154.3/16

Left Out: 220.747+/-0.045 χ^2/NDF : 1094656.2/16

Right Out: 173.297+/-0.057 χ^2/NDF : 4207424.0/18

Left In: 184.104+/-0.039 χ^2/NDF : 1313313.1/15

Left: 199.583+/-0.029 χ^2/NDF : 2785084.7/32

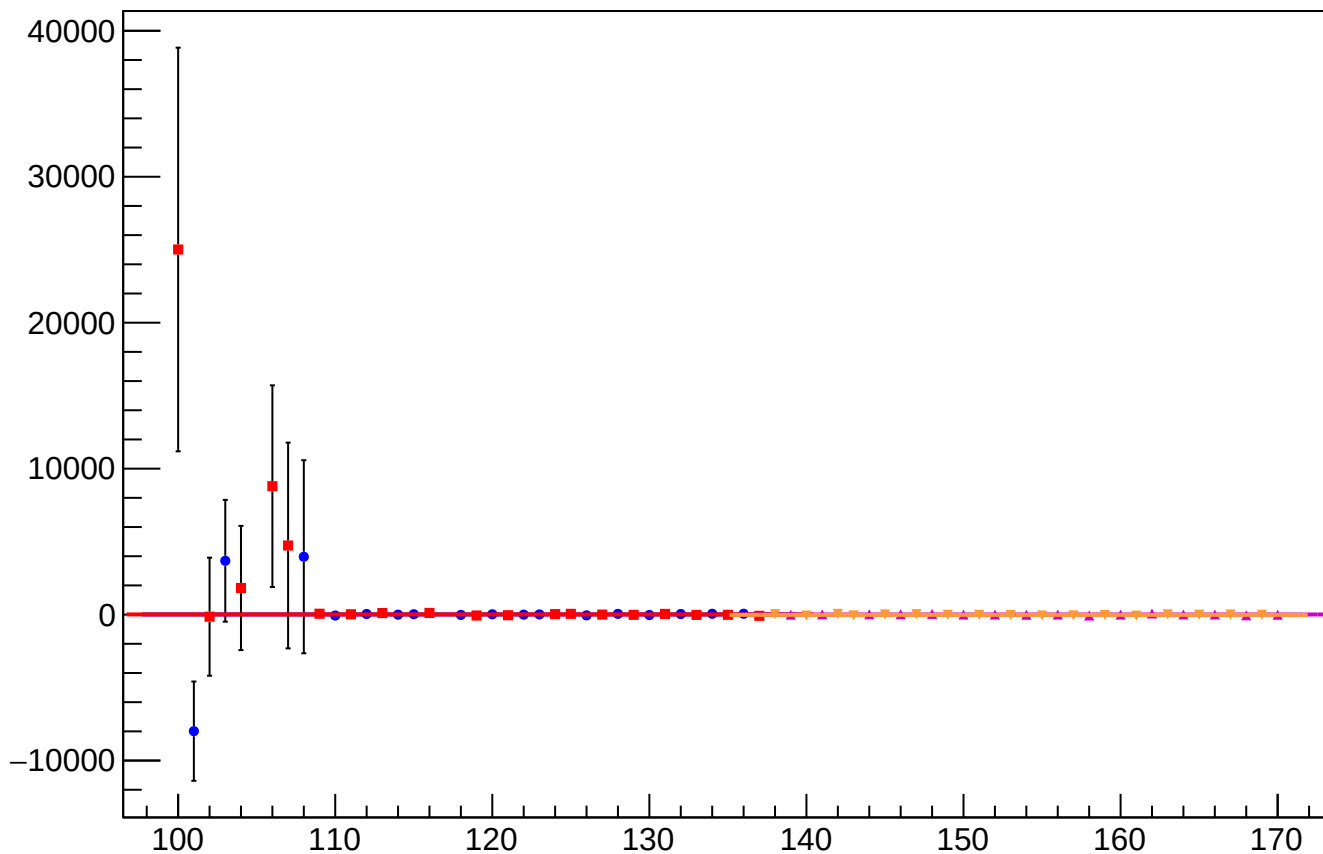
Right: 181.587+/-0.042 χ^2/NDF : 7826577.3/35

In: 186.153+/-0.033 χ^2/NDF : 4896512.7/32

Out: 202.449+/-0.036 χ^2/NDF : 5724277.9/35

All: 193.687+/-0.024 χ^2/NDF : 10733823.6/68

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.286+/-12.282 χ^2/NDF : 18.4/16

Left Out: -16.999+/-8.135 χ^2/NDF :16.7/16

Right Out: 12.668+/-12.232 χ^2/NDF : 24.8/18

Left In: 7.806+/-8.184 χ^2/NDF :17.4/15

Left: -4.670+/-5.770 χ^2/NDF : 38.7/32

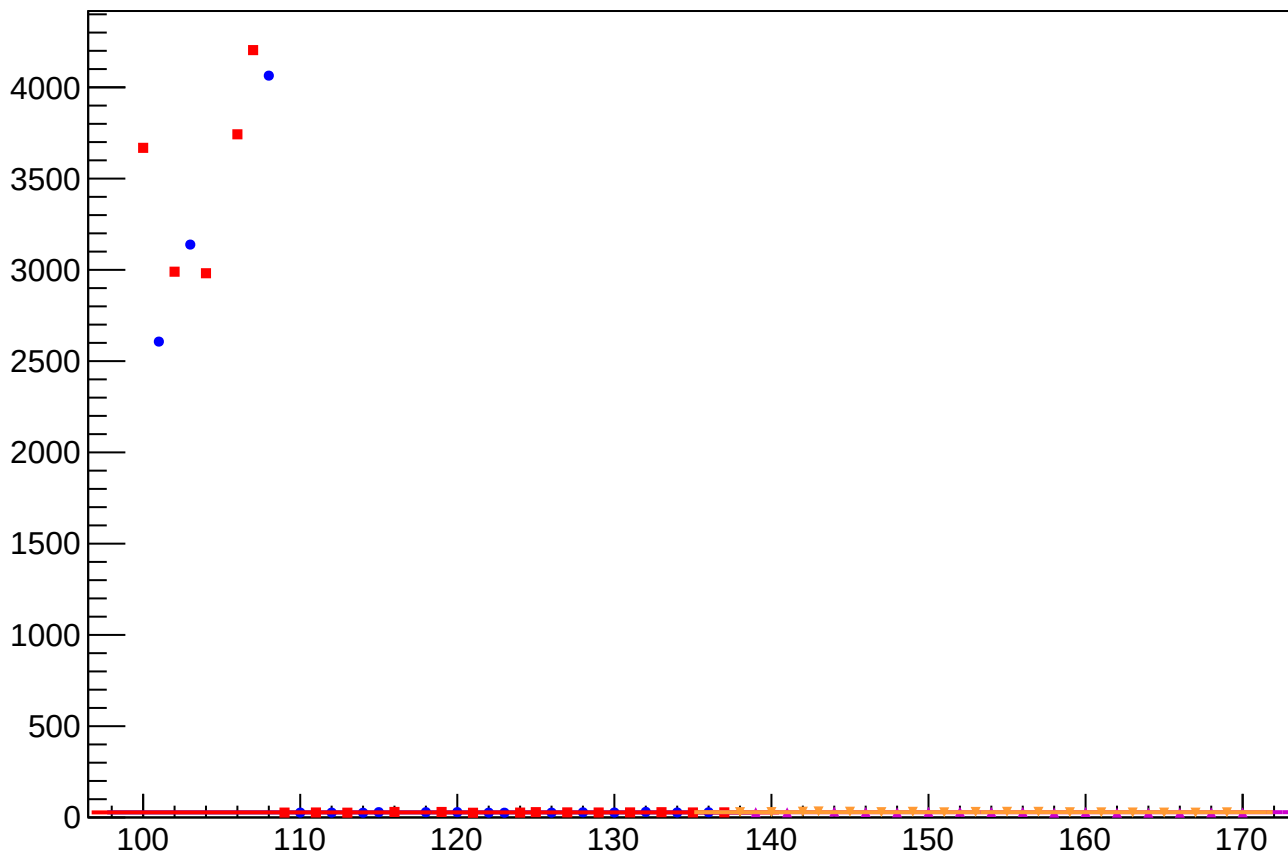
Right: 11.482+/-8.667 χ^2/NDF : 43.2/35

In: 8.569+/-6.811 χ^2/NDF :35.8/32

Out: -7.901+/-6.774 χ^2/NDF :45.6/35

All: 0.289+/-4.803 χ^2/NDF : 84.3/68

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.855+/-0.009 χ^2/NDF : 3027666.8/16

Left Out: 28.946+/-0.006 χ^2/NDF : 94396.3/16

Right Out: 27.695+/-0.009 χ^2/NDF : 3476852.9/18

Left In: 28.851+/-0.006 χ^2/NDF : 110795.4/15

Left: 28.899+/-0.004 χ^2/NDF : 205328.6/32

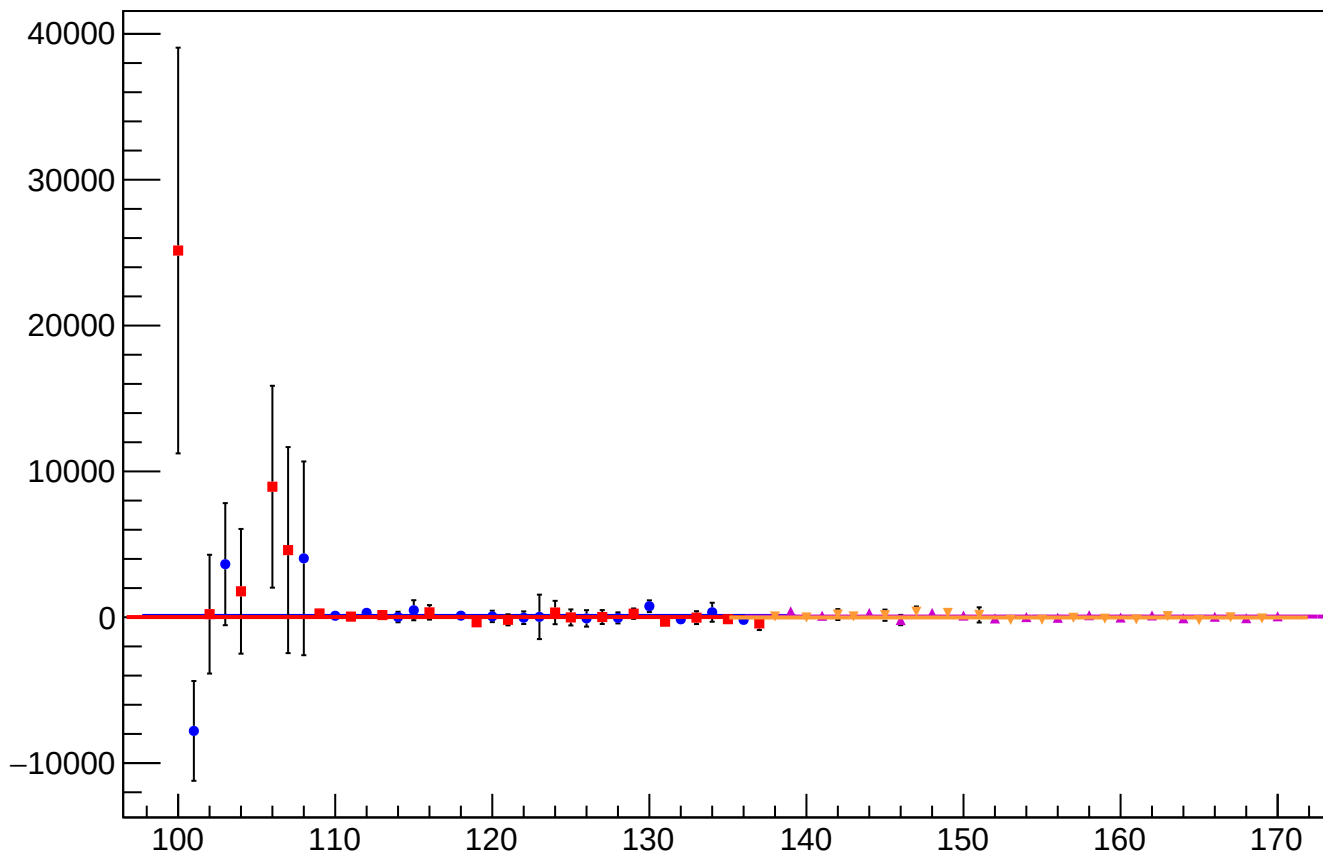
Right: 27.774+/-0.006 χ^2/NDF : 6504689.9/35

In: 28.544+/-0.005 χ^2/NDF : 3147569.6/32

Out: 28.562+/-0.005 χ^2/NDF : 3585761.6/35

All: 28.553+/-0.003 χ^2/NDF : 6733338.2/68

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 90.773+/-88.149 χ^2/NDF : 12.8/16

Left Out: -16.216+/-63.993 χ^2/NDF : 5.3/16

Right Out: 13.341+/-80.686 χ^2/NDF : 12.7/18

Left In: 47.763+/-54.740 χ^2/NDF : 5.6/15

Left: 20.729+/-41.598 χ^2/NDF : 11.4/32

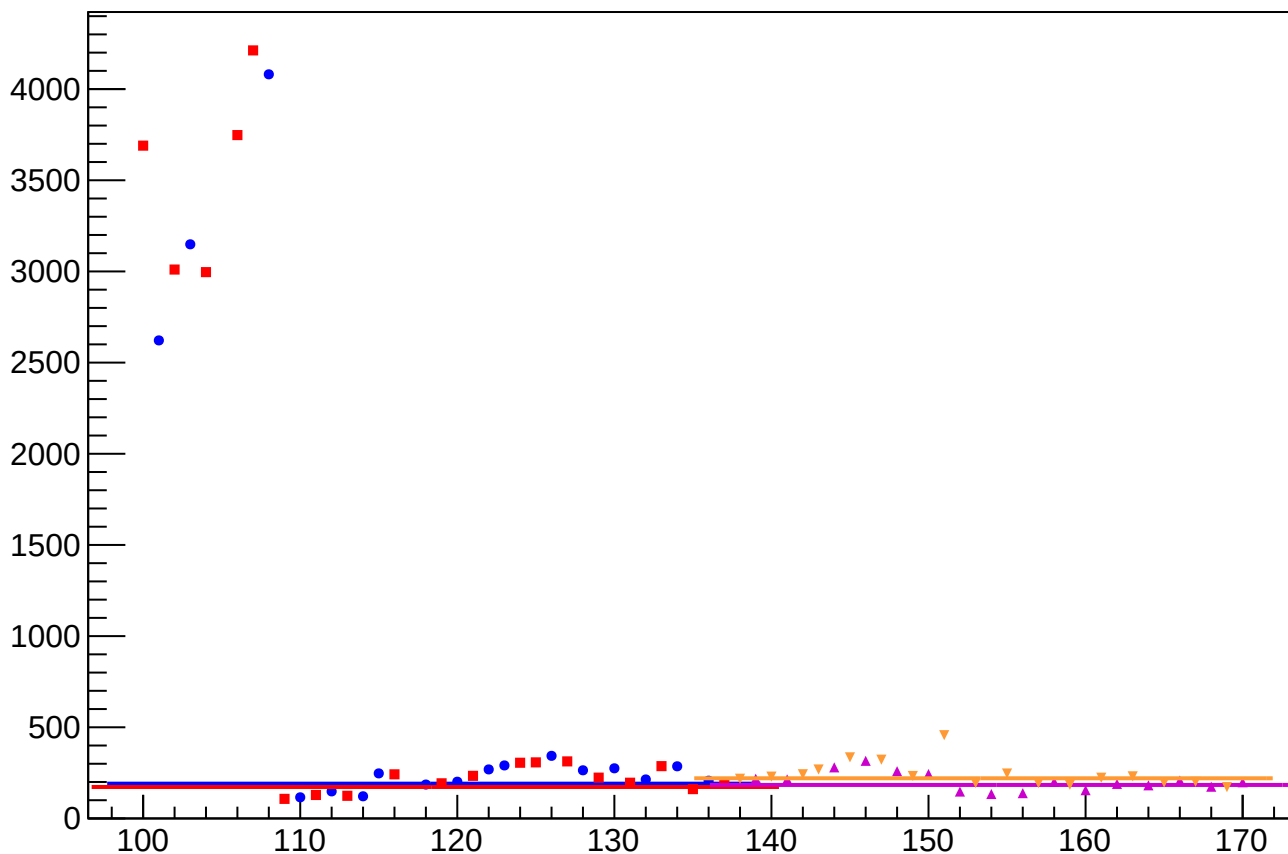
Right: 48.642+/-59.518 χ^2/NDF : 25.9/35

In: 59.733+/-46.503 χ^2/NDF : 18.5/32

Out: -4.803+/-50.138 χ^2/NDF : 18.1/35

All: 29.889+/-34.095 χ^2/NDF : 37.5/68

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 190.770+/-0.062 χ^2/NDF : 3585034.0/16

Left Out: 220.273+/-0.045 χ^2/NDF :1094328.7/16

Right Out: 172.629+/-0.057 χ^2/NDF : 4218625.1/18

Left In: 183.747+/-0.039 χ^2/NDF :1313044.3/15

Left: 199.181+/-0.029 χ^2/NDF : 2783630.4/32

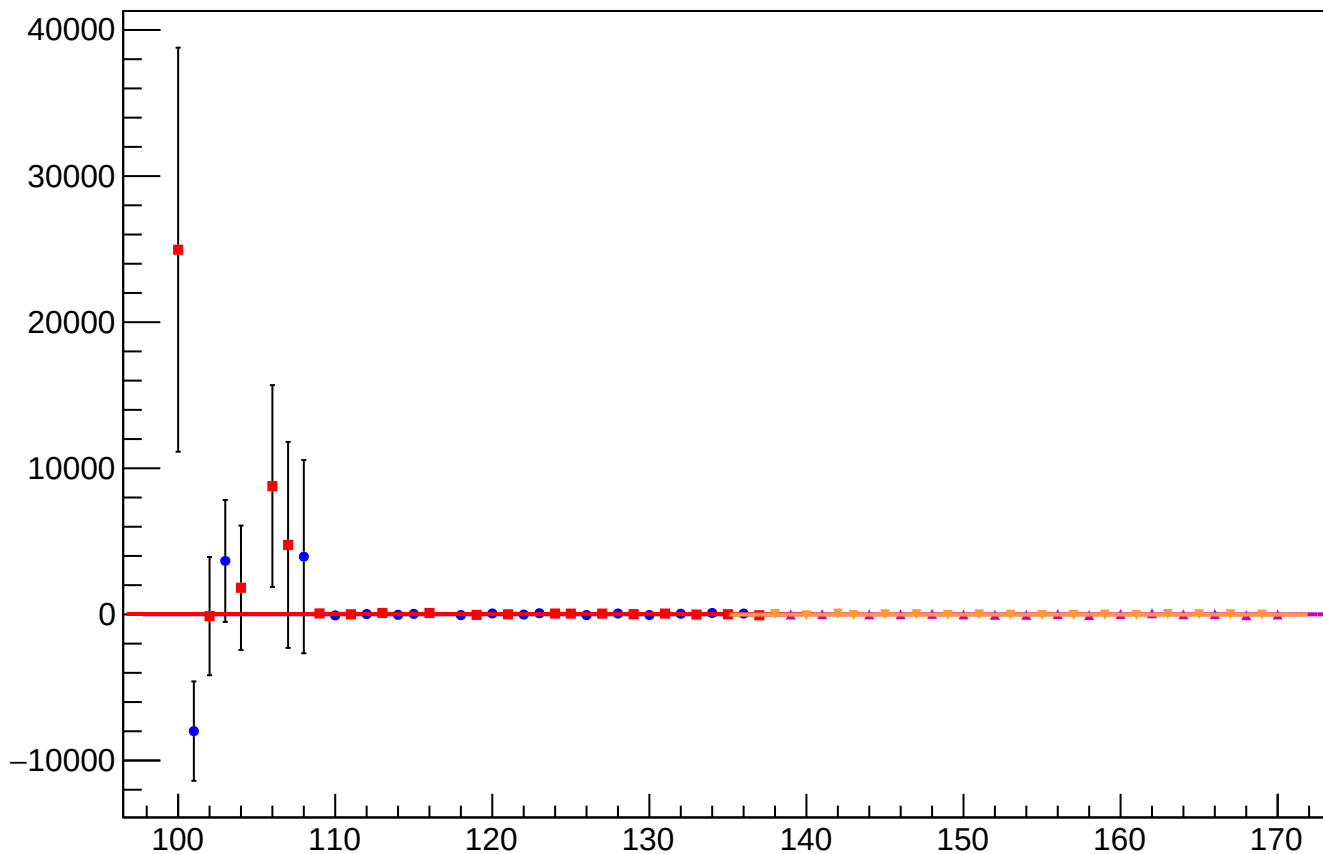
Right: 180.899+/-0.042 χ^2/NDF : 7849745.6/35

In: 185.702+/-0.033 χ^2/NDF :4907238.0/32

Out: 201.876+/-0.035 χ^2/NDF :5741027.1/35

All: 193.182+/-0.024 χ^2/NDF : 10760154.1/68

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.600 $\pm$ 12.368 χ^2 /NDF: 23.2/16

Left Out: -12.466 $\pm$ 8.194 χ^2 /NDF:11.4/16

Right Out: 29.397 $\pm$ 12.333 χ^2 /NDF: 16.8/18

Left In: 6.689 $\pm$ 8.233 χ^2 /NDF:17.4/15

Left: -2.933 $\pm$ 5.808 χ^2 /NDF: 31.6/32

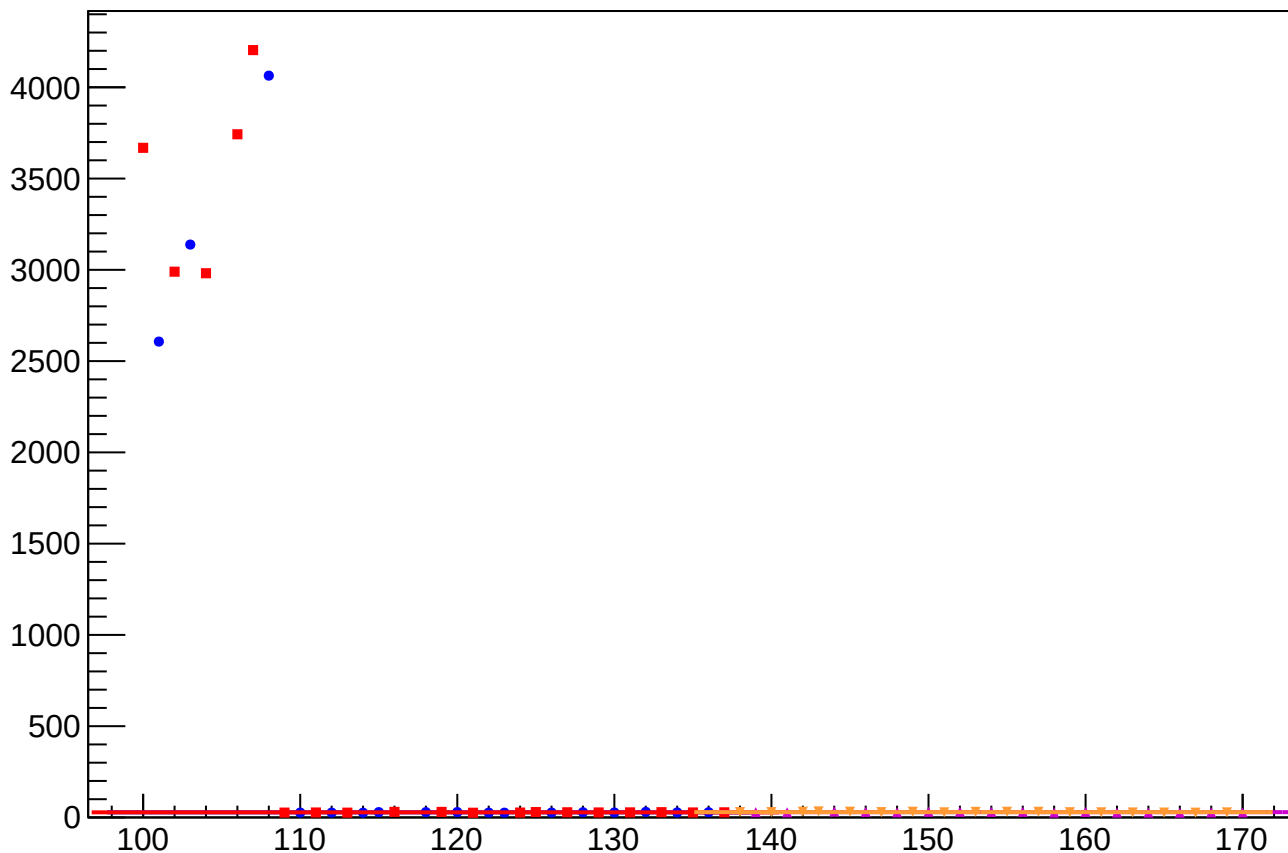
Right: 19.027 $\pm$ 8.733 χ^2 /NDF: 41.4/35

In: 7.276 $\pm$ 6.853 χ^2 /NDF:40.6/32

Out: 0.354 $\pm$ 6.825 χ^2 /NDF:36.2/35

All: 3.801 $\pm$ 4.836 χ^2 /NDF: 77.4/68

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 28.044+/-0.009 χ^2/NDF : 3027898.7/16

Left Out: 29.151+/-0.006 χ^2/NDF :99380.5/16

Right Out: 27.918+/-0.009 χ^2/NDF : 3479690.8/18

Left In: 29.024+/-0.006 χ^2/NDF :111798.5/15

Left: 29.088+/-0.004 χ^2/NDF : 211416.6/32

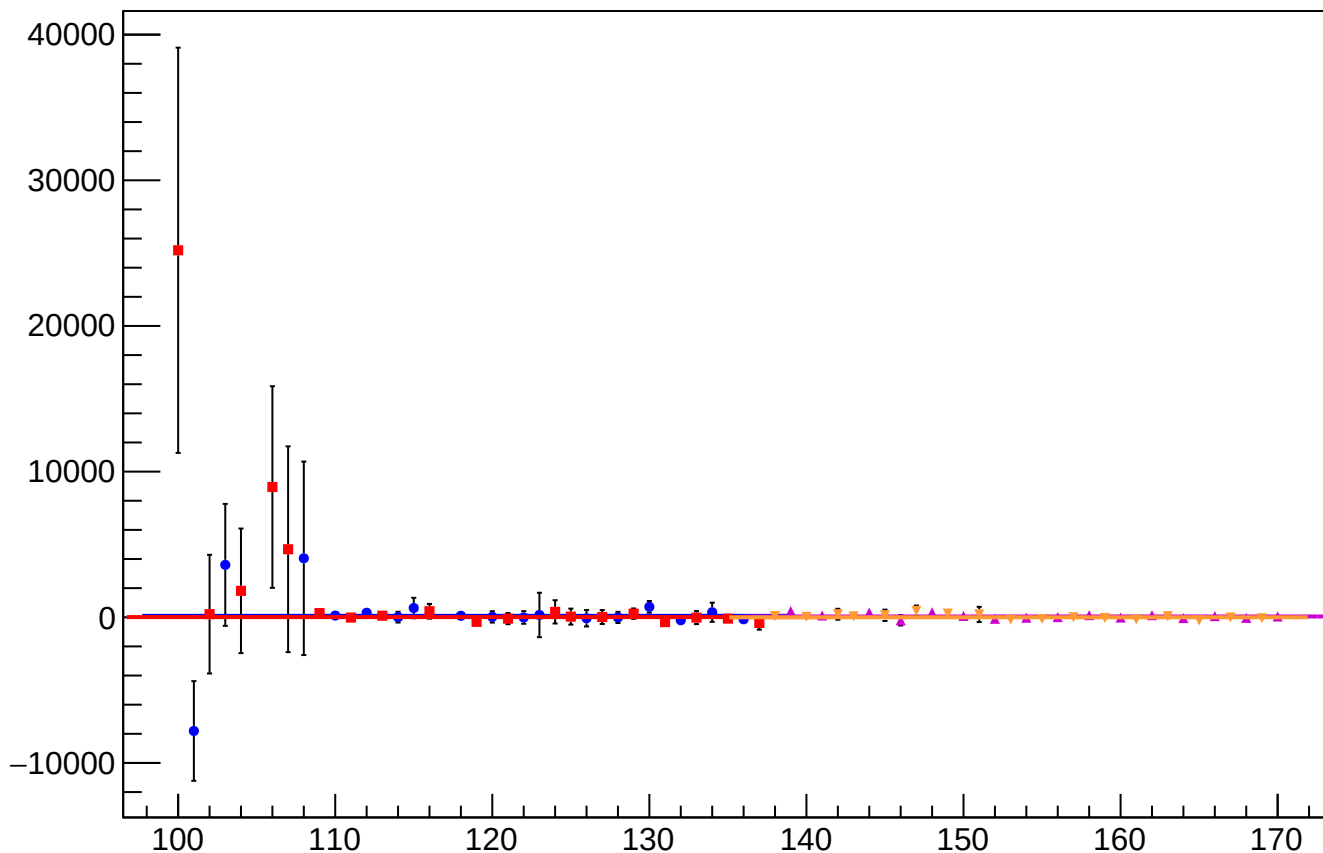
Right: 27.981+/-0.006 χ^2/NDF : 6507693.6/35

In: 28.723+/-0.005 χ^2/NDF :3148404.6/32

Out: 28.773+/-0.005 χ^2/NDF :3592936.7/35

All: 28.748+/-0.003 χ^2/NDF : 6741394.7/68

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 98.142+/-89.203 χ^2/NDF : 12.5/16

Left Out: -2.249+/-64.739 χ^2/NDF : 5.0/16

Right Out: 11.728+/-81.772 χ^2/NDF : 12.3/18

Left In: 55.584+/-55.513 χ^2/NDF : 6.1/15

Left: 31.079+/-42.141 χ^2/NDF : 11.6/32

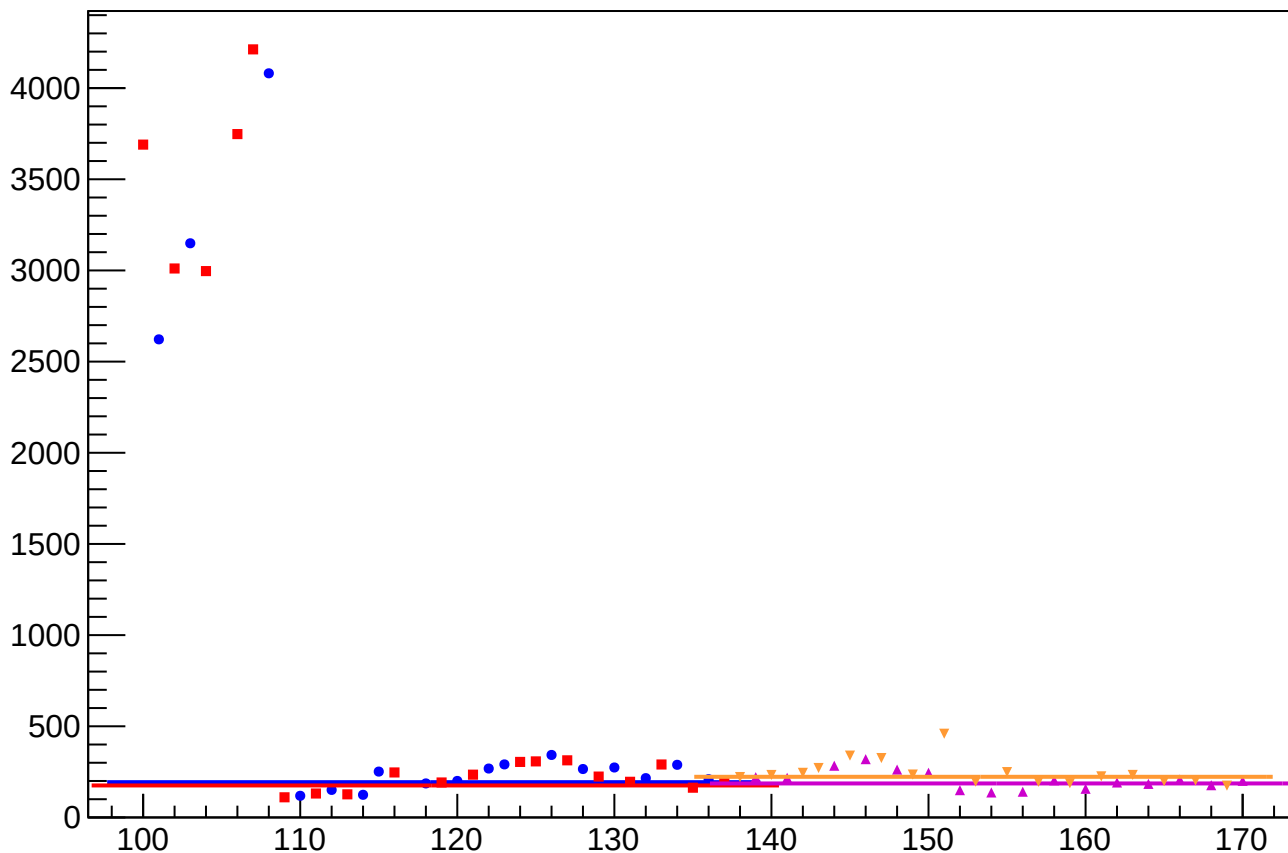
Right: 51.186+/-60.278 χ^2/NDF : 25.3/35

In: 67.465+/-47.131 χ^2/NDF : 18.8/32

Out: 3.136+/-50.758 χ^2/NDF : 17.3/35

All: 37.680+/-34.538 χ^2/NDF : 37.0/68

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.516 $\pm$ 0.063 χ^2 /NDF: 3536947.8/16

Left Out: 222.951 $\pm$ 0.046 χ^2 /NDF:1082777.0/16

Right Out: 175.509 $\pm$ 0.058 χ^2 /NDF: 4165575.9/18

Left In: 186.521 $\pm$ 0.039 χ^2 /NDF:1283871.1/15

Left: 201.957 $\pm$ 0.030 χ^2 /NDF: 2731610.5/32

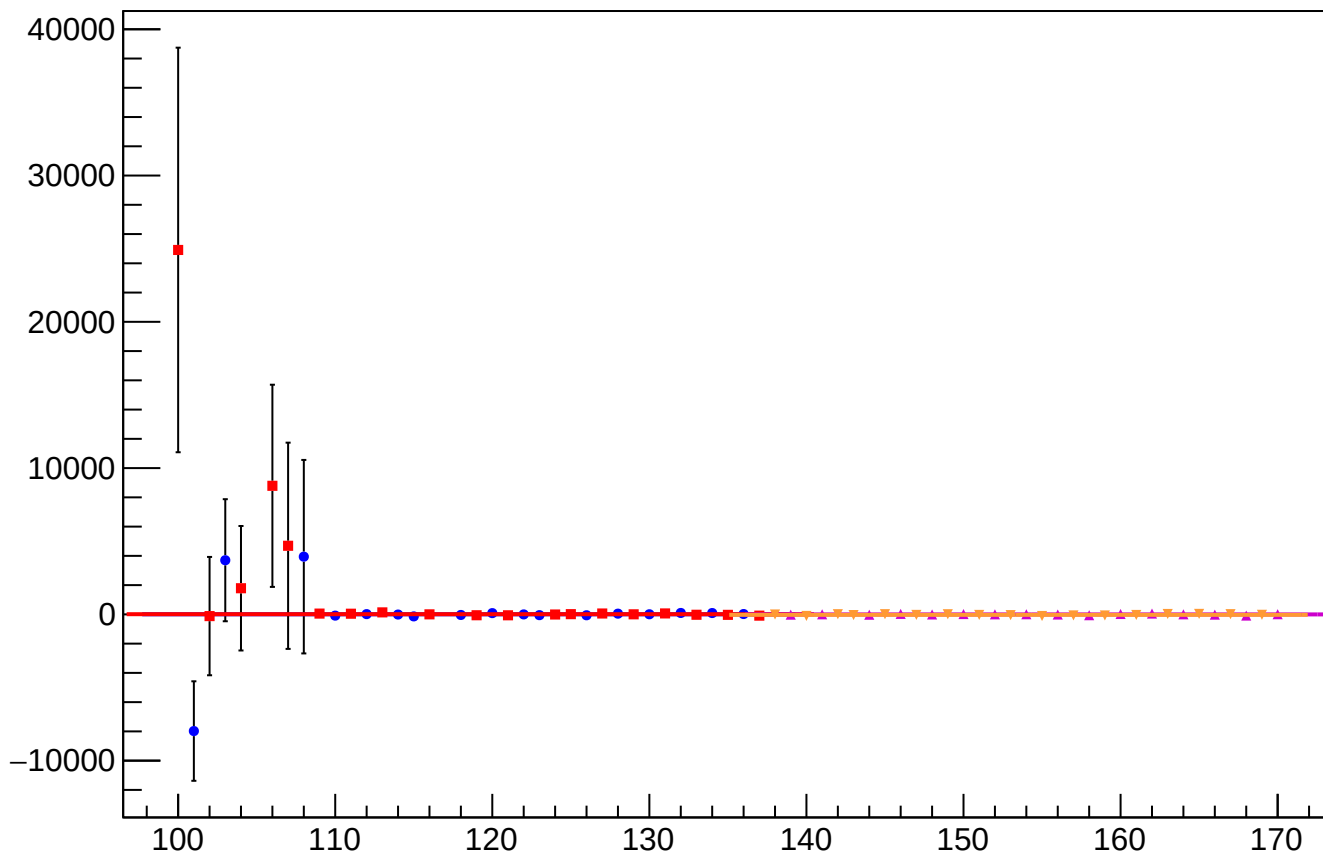
Right: 183.732 $\pm$ 0.043 χ^2 /NDF: 7746808.4/35

In: 188.474 $\pm$ 0.033 χ^2 /NDF:4829686.0/32

Out: 204.672 $\pm$ 0.036 χ^2 /NDF:5662160.7/35

All: 195.973 $\pm$ 0.024 χ^2 /NDF: 10601226.5/68

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.565 $\pm$ 15.052 χ^2 /NDF: 20.4/16

Left Out: -31.114 $\pm$ 9.738 χ^2 /NDF:19.4/16

Right Out: 12.158 $\pm$ 14.952 χ^2 /NDF: 21.9/18

Left In: -2.450 $\pm$ 9.818 χ^2 /NDF:11.8/15

Left: -16.900 $\pm$ 6.914 χ^2 /NDF: 35.6/32

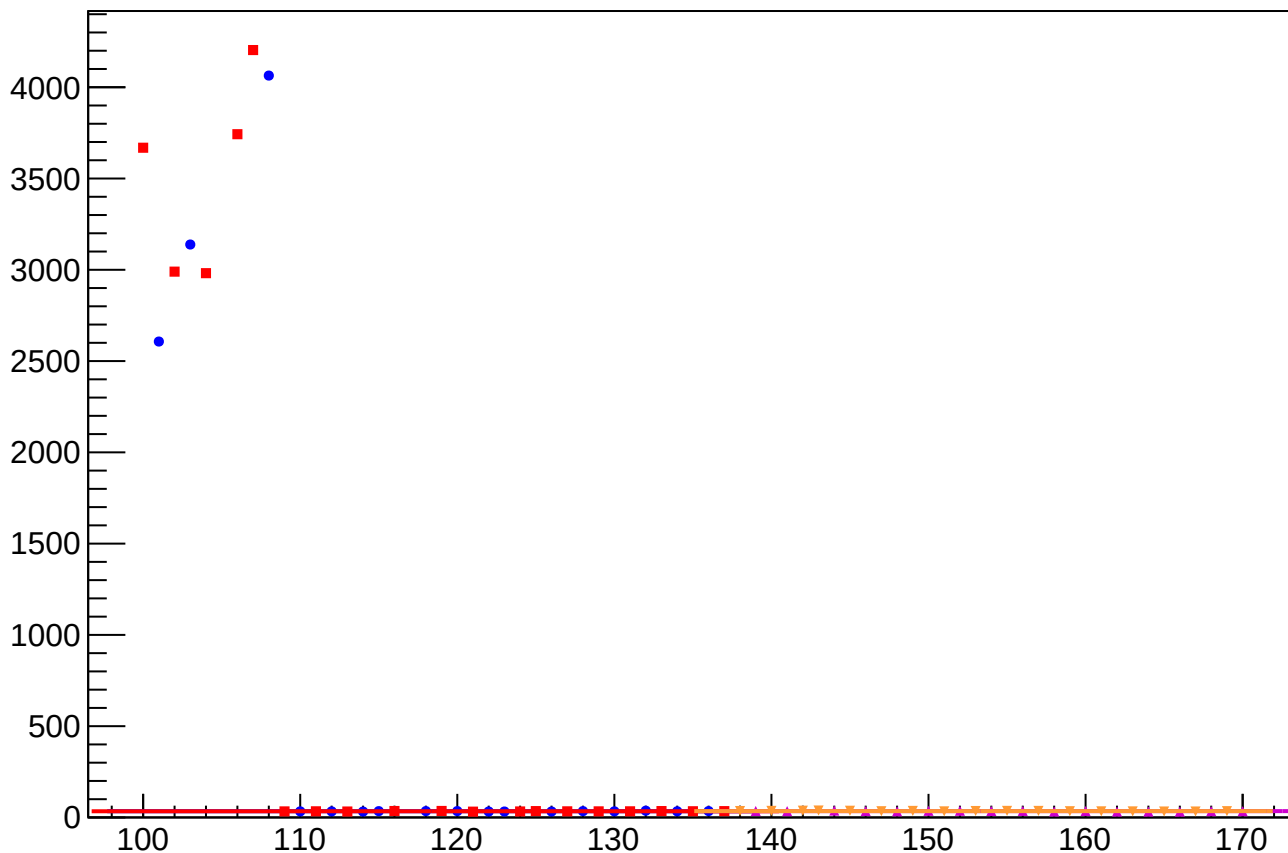
Right: 8.883 $\pm$ 10.608 χ^2 /NDF: 42.5/35

In: -0.058 $\pm$ 8.223 χ^2 /NDF:32.5/32

Out: -18.226 $\pm$ 8.160 χ^2 /NDF:47.3/35

All: -9.212 $\pm$ 5.792 χ^2 /NDF: 82.2/68

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 34.168 $\pm$ 0.011 χ^2 /NDF: 3006512.8/16

Left Out: 34.706 $\pm$ 0.007 χ^2 /NDF:46874.8/16

Right Out: 33.913 $\pm$ 0.011 χ^2 /NDF: 3451912.6/18

Left In: 34.683 $\pm$ 0.007 χ^2 /NDF:51761.0/15

Left: 34.694 $\pm$ 0.005 χ^2 /NDF: 98641.3/32

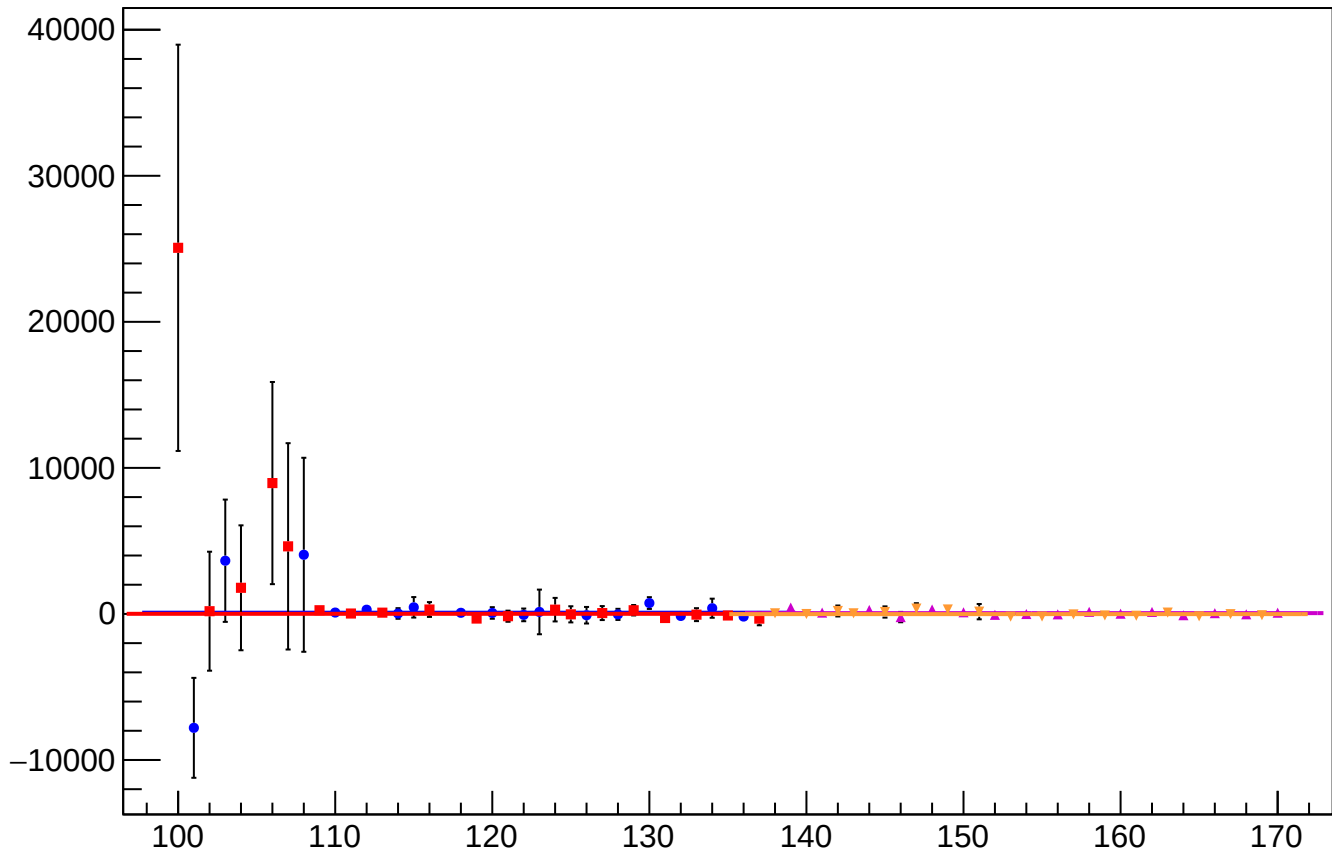
Right: 34.039 $\pm$ 0.008 χ^2 /NDF: 6458714.0/35

In: 34.529 $\pm$ 0.006 χ^2 /NDF:3059918.4/32

Out: 34.470 $\pm$ 0.006 χ^2 /NDF:3502738.9/35

All: 34.499 $\pm$ 0.004 χ^2 /NDF: 6562709.9/68

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 84.504+/-88.746 χ^2/NDF : 12.5/16

Left Out: -12.896+/-64.611 χ^2/NDF : 5.1/16

Right Out: 8.565+/-81.257 χ^2/NDF : 11.1/18

Left In: 55.657+/-55.365 χ^2/NDF : 5.5/15

Left: 26.632+/-42.041 χ^2/NDF : 11.3/32

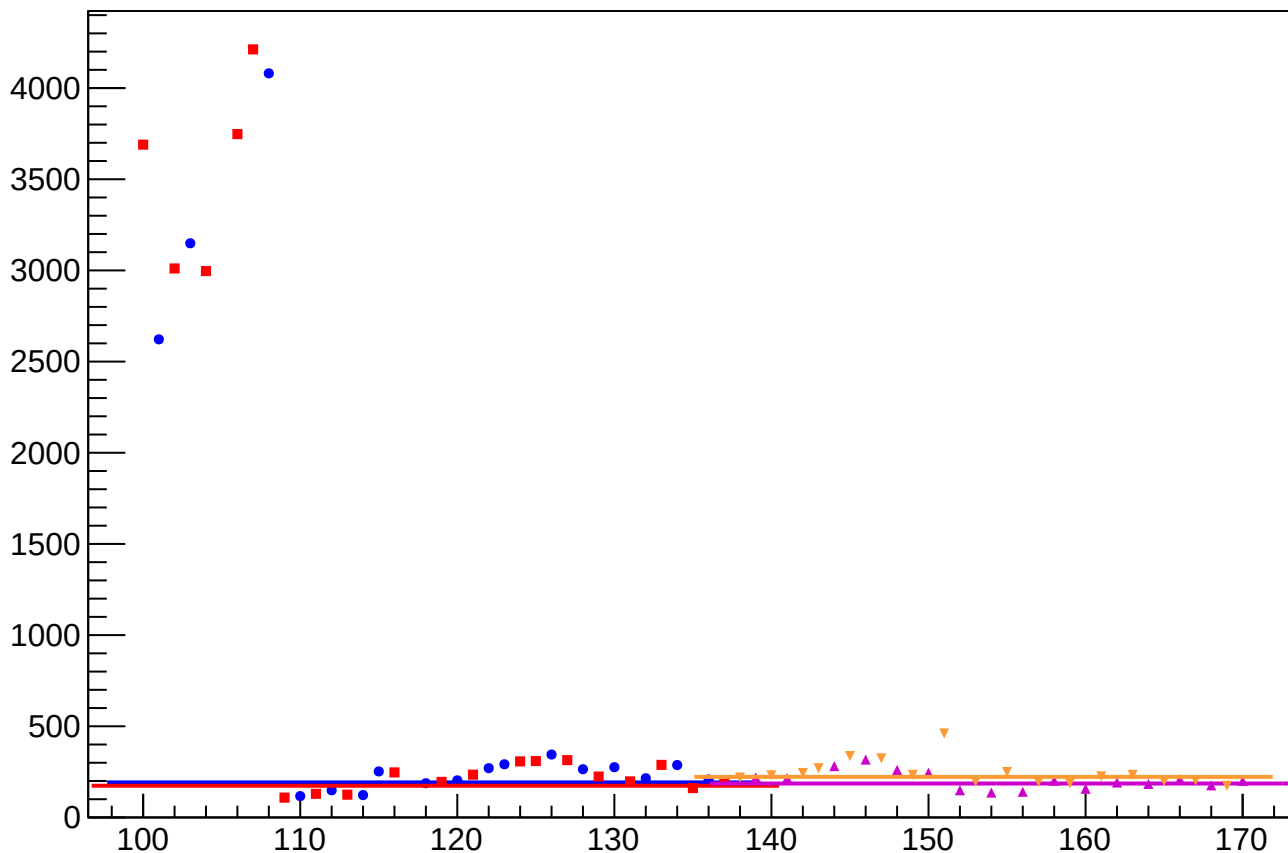
Right: 43.196+/-59.931 χ^2/NDF : 24.0/35

In: 63.739+/-46.974 χ^2/NDF : 18.2/32

Out: -4.583+/-50.572 χ^2/NDF : 16.2/35

All: 32.095+/-34.417 χ^2/NDF : 35.4/68

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.177+/-0.063 χ^2/NDF : 3574617.3/16

Left Out: 222.527+/-0.046 χ^2/NDF :1073743.1/16

Right Out: 173.961+/-0.057 χ^2/NDF : 4211616.2/18

Left In: 186.035+/-0.039 χ^2/NDF :1271718.1/15

Left: 201.485+/-0.030 χ^2/NDF : 2713341.8/32

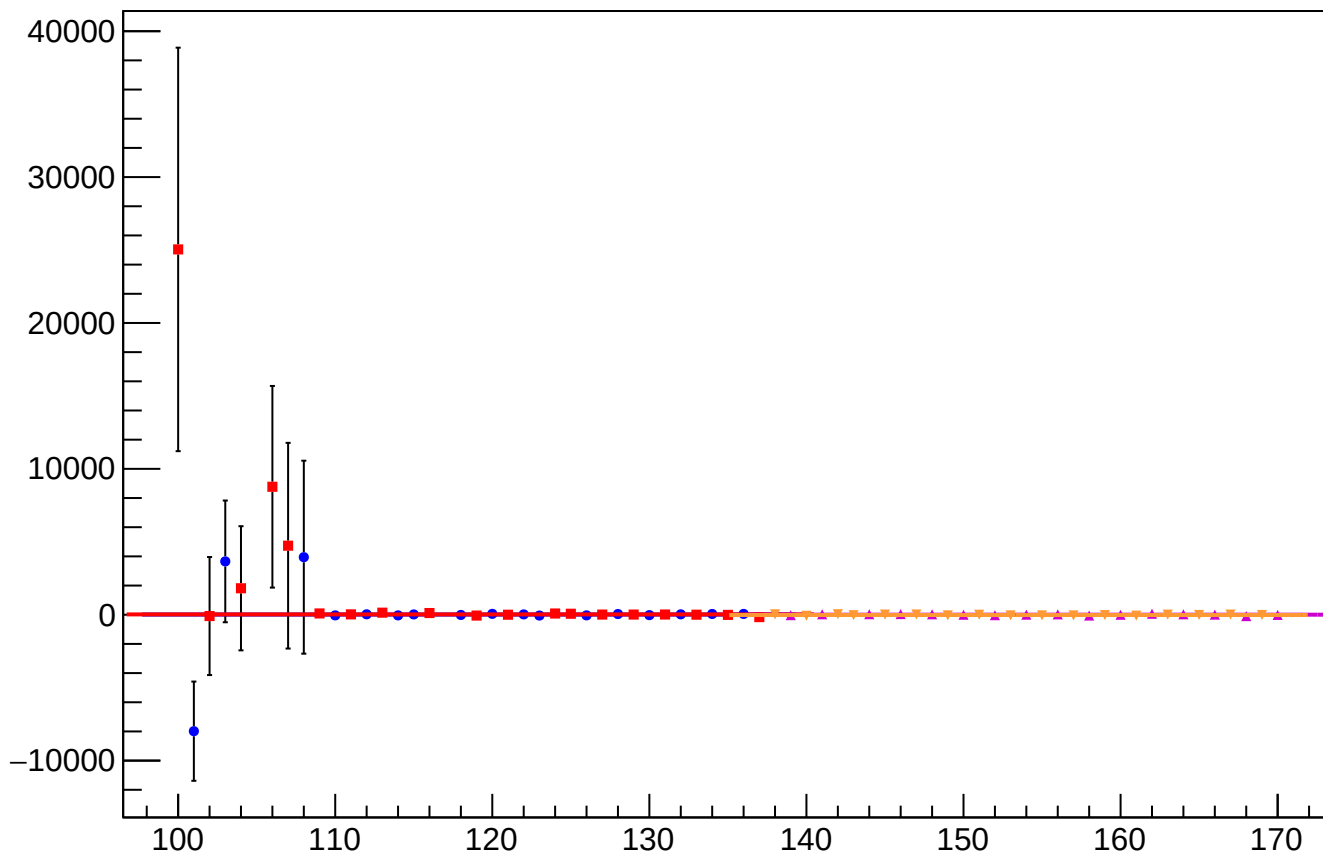
Right: 182.268+/-0.042 χ^2/NDF : 7832071.5/35

In: 187.755+/-0.033 χ^2/NDF :4853231.6/32

Out: 203.715+/-0.036 χ^2/NDF :5723080.9/35

All: 195.147+/-0.024 χ^2/NDF : 10683240.3/68

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 12.751+/-13.723 χ^2/NDF : 14.6/16

Left Out: -19.612+/-8.832 χ^2/NDF :12.0/16

Right Out: 22.618+/-13.660 χ^2/NDF : 28.0/18

Left In: 3.038+/-8.884 χ^2/NDF :21.5/15

Left: -8.353+/-6.263 χ^2/NDF : 36.8/32

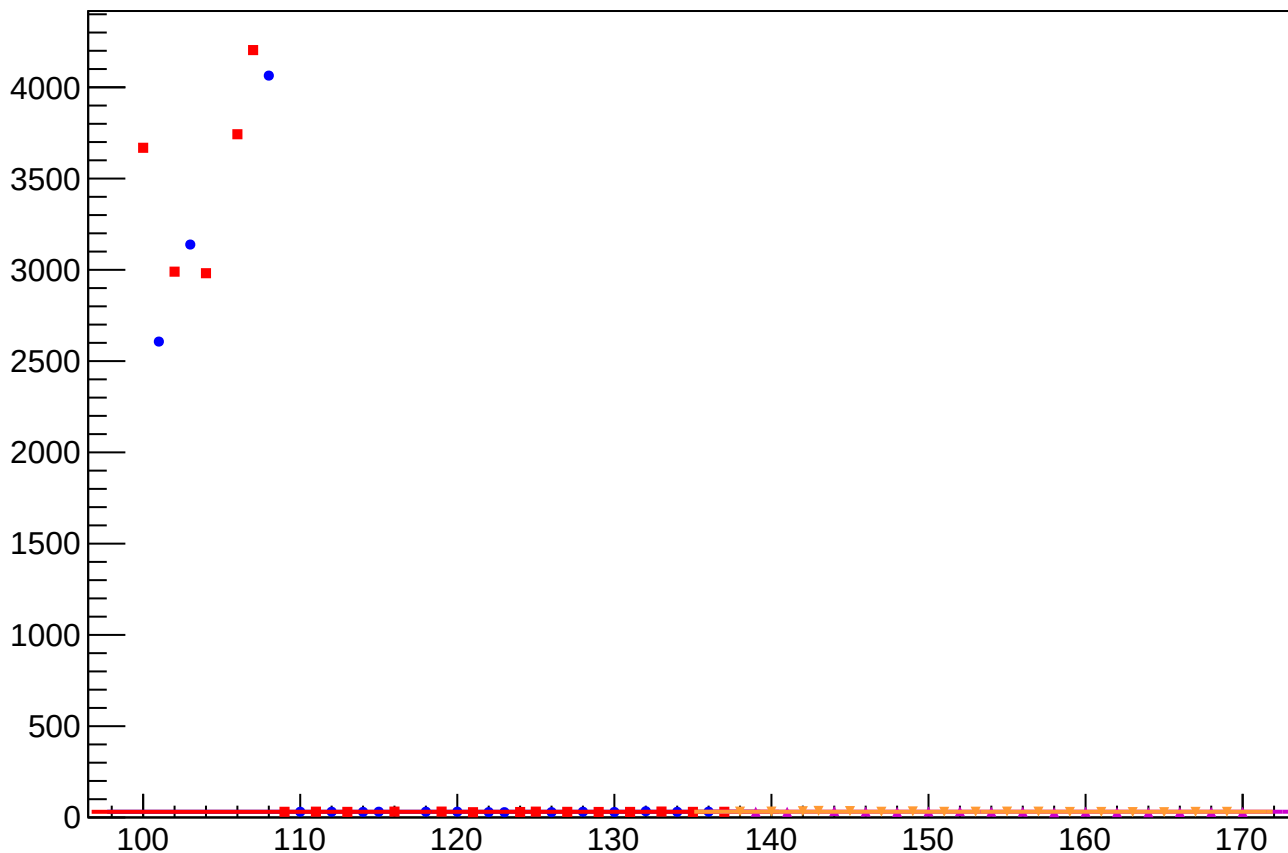
Right: 17.707+/-9.681 χ^2/NDF : 42.9/35

In: 5.906+/-7.458 χ^2/NDF :36.5/32

Out: -7.163+/-7.417 χ^2/NDF :46.7/35

All: -0.664+/-5.259 χ^2/NDF : 84.8/68

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 31.153+/-0.010 χ^2/NDF : 3014515.0/16

Left Out: 31.443+/-0.006 χ^2/NDF : 73282.6/16

Right Out: 30.963+/-0.010 χ^2/NDF : 3458924.5/18

Left In: 31.336+/-0.006 χ^2/NDF : 81160.4/15

Left: 31.390+/-0.004 χ^2/NDF : 154589.3/32

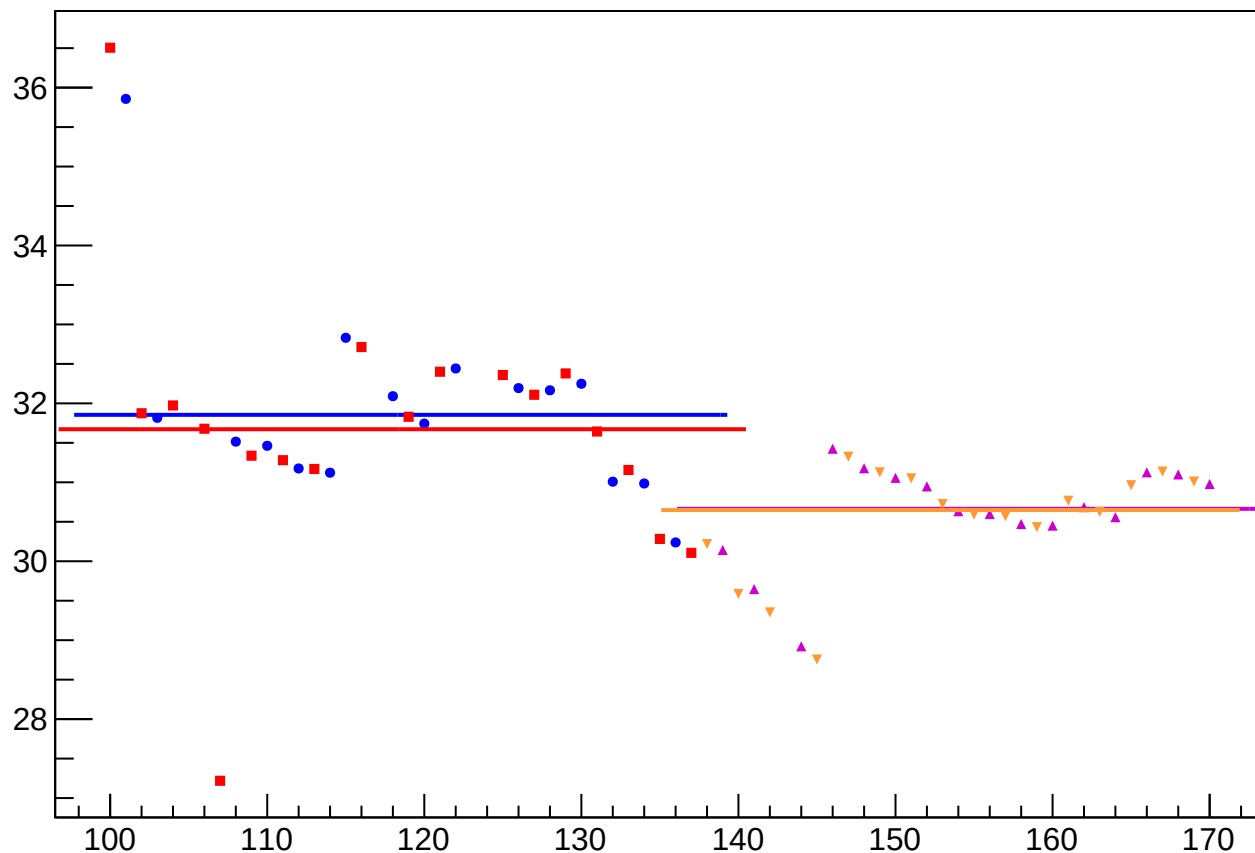
Right: 31.057+/-0.007 χ^2/NDF : 6473633.0/35

In: 31.282+/-0.005 χ^2/NDF : 3095925.9/32

Out: 31.301+/-0.005 χ^2/NDF : 3533952.4/35

All: 31.292+/-0.004 χ^2/NDF : 6629885.2/68

yield_usl_mean vs Slug, Sign Corrected



Right In: 31.855+/-0.000

χ^2/NDF : 1570522165.5/15

Left Out: 30.649+/-0.000

χ^2/NDF : 669287994.1/15

Right Out: 31.672+/-0.000

χ^2/NDF : 917899841.8/17

Left In: 30.664+/-0.000

χ^2/NDF : 631247164.3/15

Left: 30.656+/-0.000

χ^2/NDF : 1300753275.9/31

Right: 31.765+/-0.000

χ^2/NDF : 2508641774.0/33

In: 31.144+/-0.000

χ^2/NDF : 3253345680.6/31

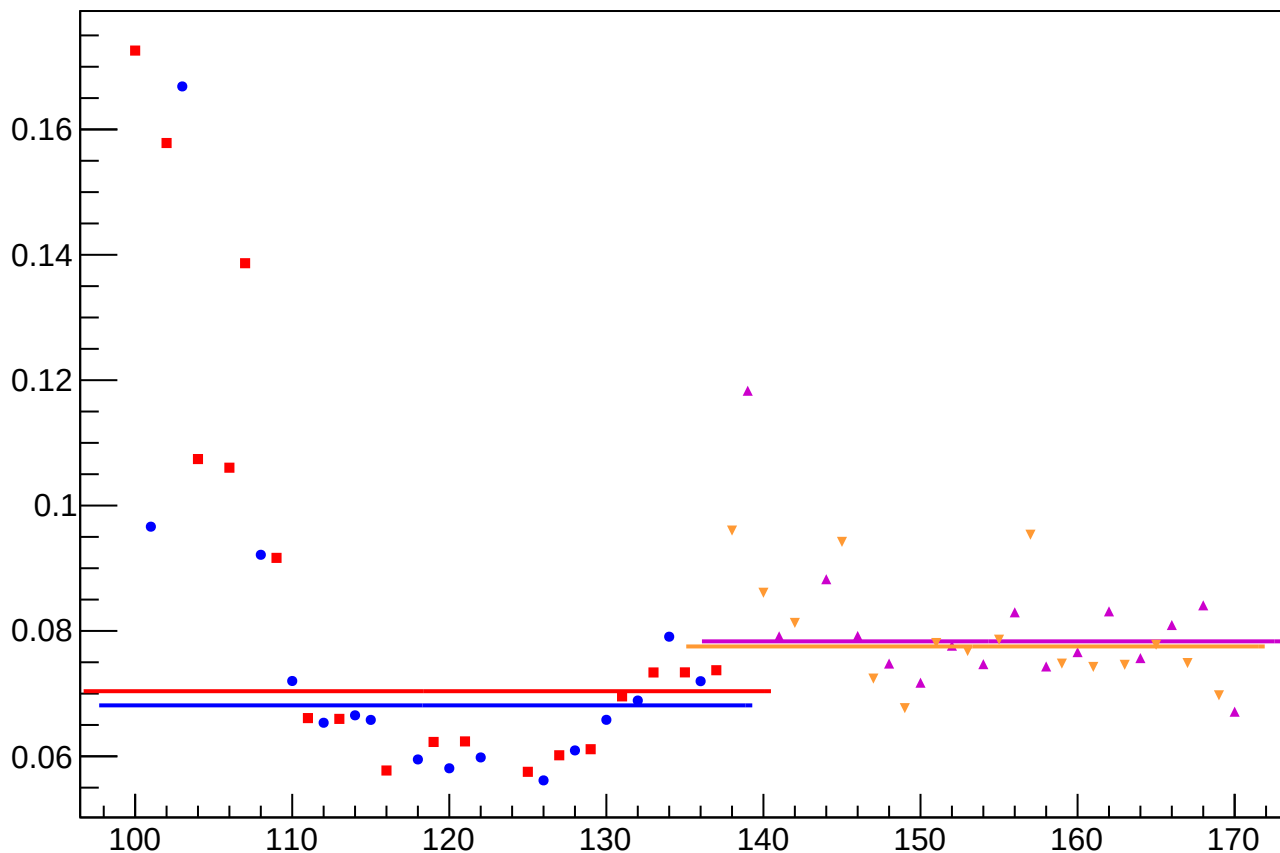
Out: 31.056+/-0.000

χ^2/NDF : 2340183963.9/33

All: 31.101+/-0.000

χ^2/NDF : 5605318101.2/66

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.000 χ^2 /NDF: 629767.4/15

Left Out: 0.078 $\pm$ 0.000 χ^2 /NDF:220000.7/15

Right Out: 0.070 $\pm$ 0.000 χ^2 /NDF: 841320.1/17

Left In: 0.078 $\pm$ 0.000 χ^2 /NDF:264667.9/15

Left: 0.078 $\pm$ 0.000 χ^2 /NDF: 485875.3/31

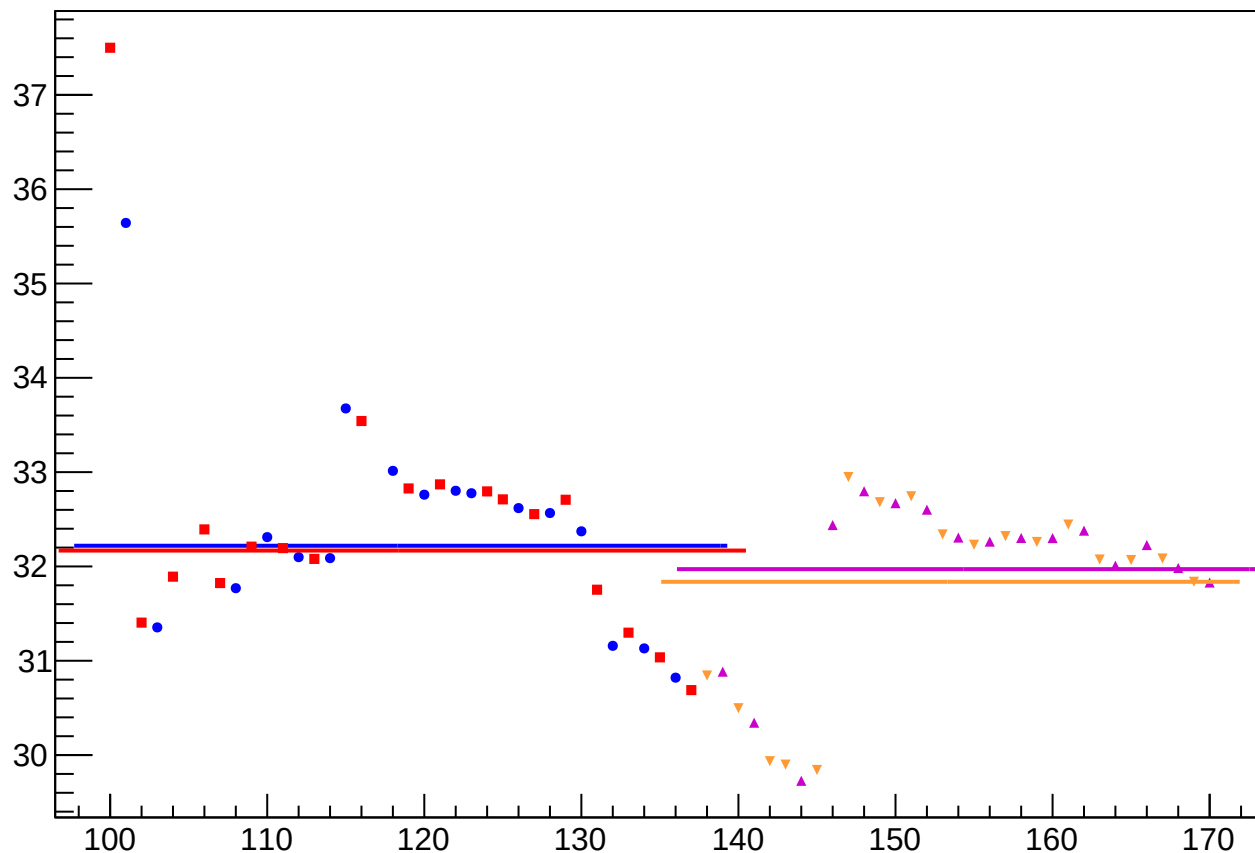
Right: 0.069 $\pm$ 0.000 χ^2 /NDF: 1477315.9/33

In: 0.074 $\pm$ 0.000 χ^2 /NDF:1049205.4/31

Out: 0.075 $\pm$ 0.000 χ^2 /NDF:1134520.1/33

All: 0.074 $\pm$ 0.000 χ^2 /NDF: 2184379.7/65

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.220+/-0.000 χ^2/NDF : 1013864543.3/16

Left Out: 31.837+/-0.000 χ^2/NDF : 1825870238.0/16

Right Out: 32.168+/-0.000 χ^2/NDF : 442298310.3/18

Left In: 31.971+/-0.000 χ^2/NDF : 1403020177.7/15

Left: 31.904+/-0.000 χ^2/NDF : 3245839394.8/32

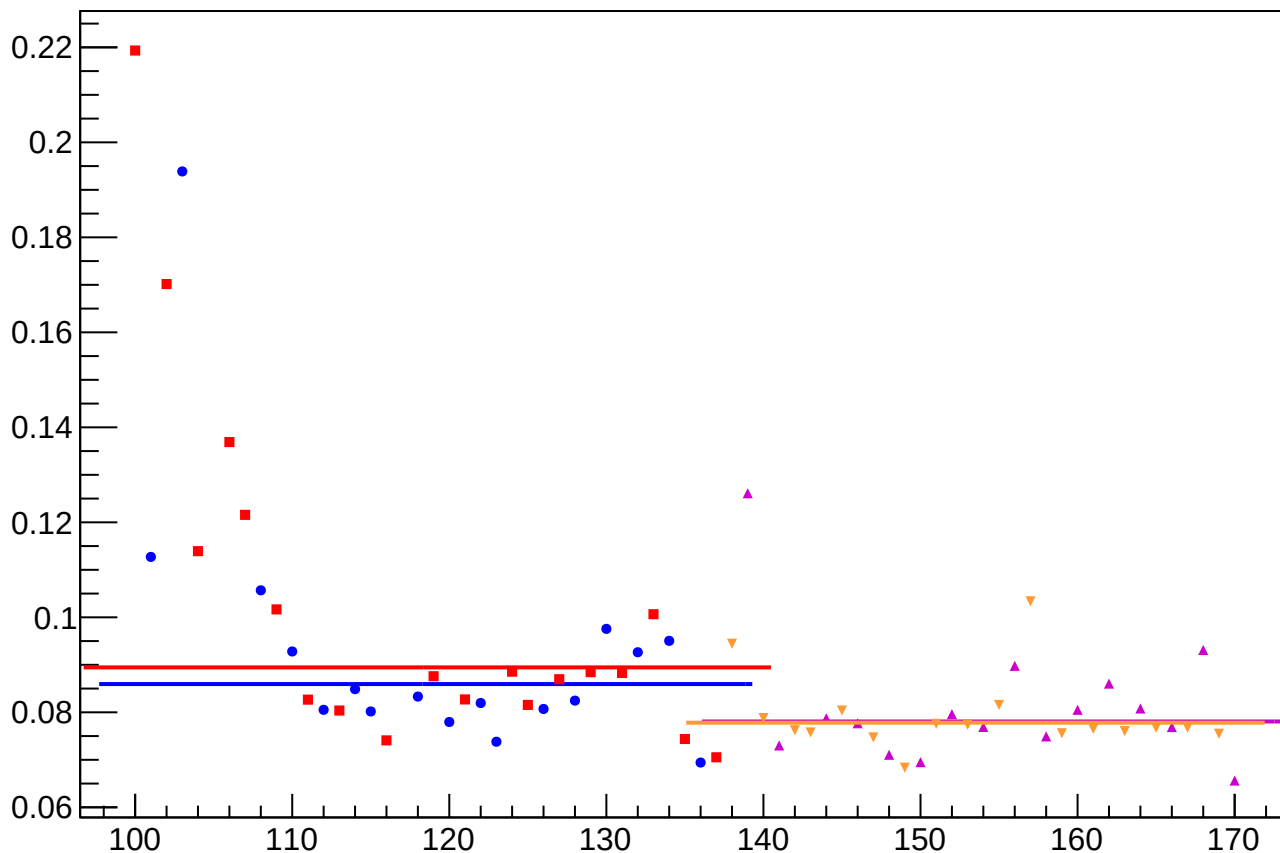
Right: 32.194+/-0.000 χ^2/NDF : 1457173552.7/35

In: 32.045+/-0.000 χ^2/NDF : 2450928370.0/32

Out: 31.933+/-0.000 χ^2/NDF : 2328112124.1/35

All: 31.988+/-0.000 χ^2/NDF : 4795760488.7/6

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.086 $\pm$ 0.000 χ^2 /NDF: 553280.3/16

Left Out: 0.078 $\pm$ 0.000 χ^2 /NDF:162068.8/16

Right Out: 0.089 $\pm$ 0.000 χ^2 /NDF: 539869.9/18

Left In: 0.078 $\pm$ 0.000 χ^2 /NDF:388234.3/15

Left: 0.078 $\pm$ 0.000 χ^2 /NDF: 550425.9/32

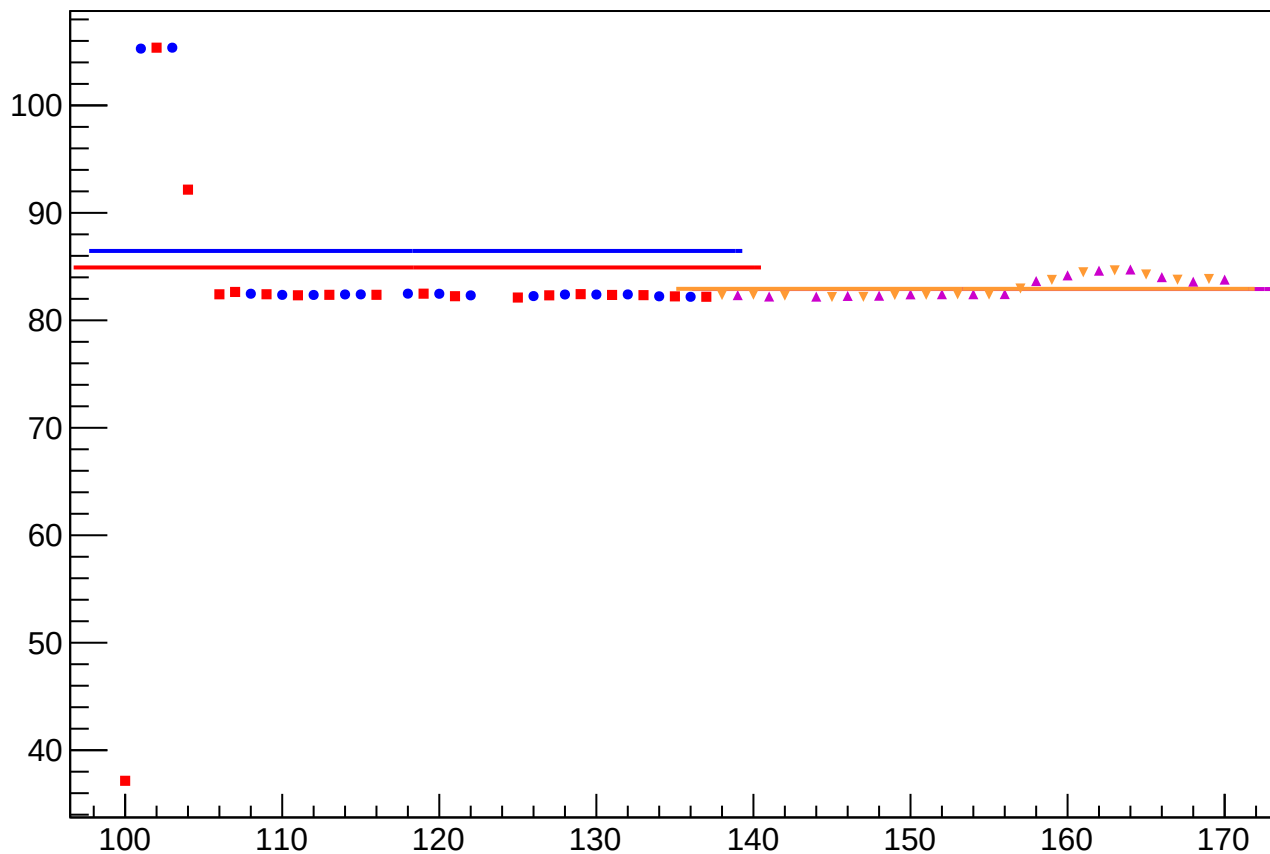
Right: 0.088 $\pm$ 0.000 χ^2 /NDF: 1102728.3/35

In: 0.080 $\pm$ 0.000 χ^2 /NDF:1010098.8/32

Out: 0.081 $\pm$ 0.000 χ^2 /NDF:850212.6/35

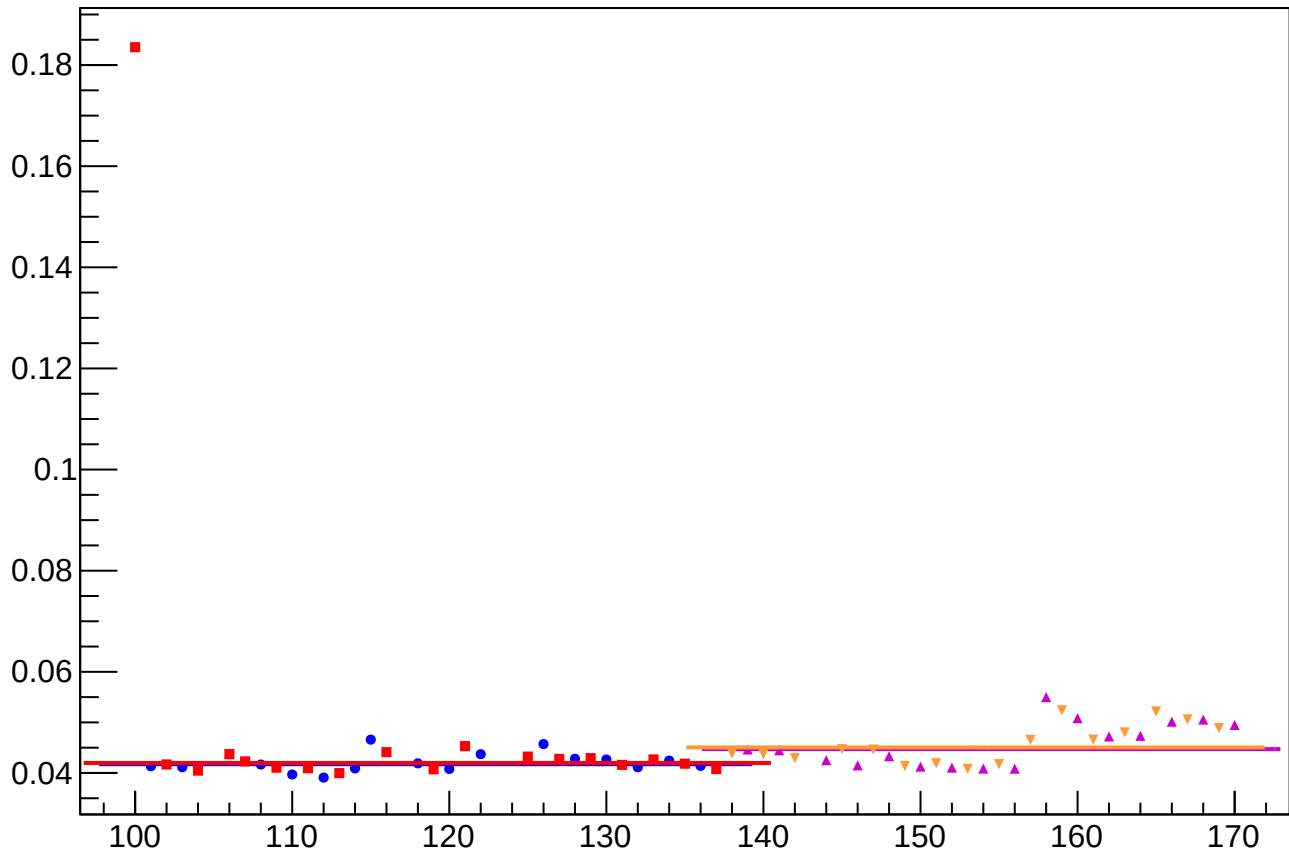
All: 0.081 $\pm$ 0.000 χ^2 /NDF: 1861884.4/68

yield_dsl_mean vs Slug, Sign Corrected



Right In: 86.457+/-0.000	χ^2/NDF : 291421048436.2/15	Left: 82.921+/-0.000	χ^2/NDF : 8637079703.1/31
Left Out: 82.931+/-0.000	χ^2/NDF : 4201448887.4/15	Right: 85.675+/-0.000	χ^2/NDF : 468146833571.9/33
Right Out: 84.920+/-0.000	χ^2/NDF : 172195187677.7/17	In: 84.268+/-0.000	χ^2/NDF : 325103815219.8/31
Left In: 82.911+/-0.000	χ^2/NDF : 4434484524.7/15	Out: 83.735+/-0.000	χ^2/NDF : 185598967192.7/33
		All: 84.004+/-0.000	χ^2/NDF : 512088601273.0

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.042 $\pm$ 0.000 χ^2 /NDF: 18887.0/15

Left Out: 0.045 $\pm$ 0.000 χ^2 /NDF:141098.3/15

Right Out: 0.042 $\pm$ 0.000 χ^2 /NDF: 96869.3/17

Left In: 0.045 $\pm$ 0.000 χ^2 /NDF:203456.4/15

Left: 0.045 $\pm$ 0.000 χ^2 /NDF: 345236.4/31

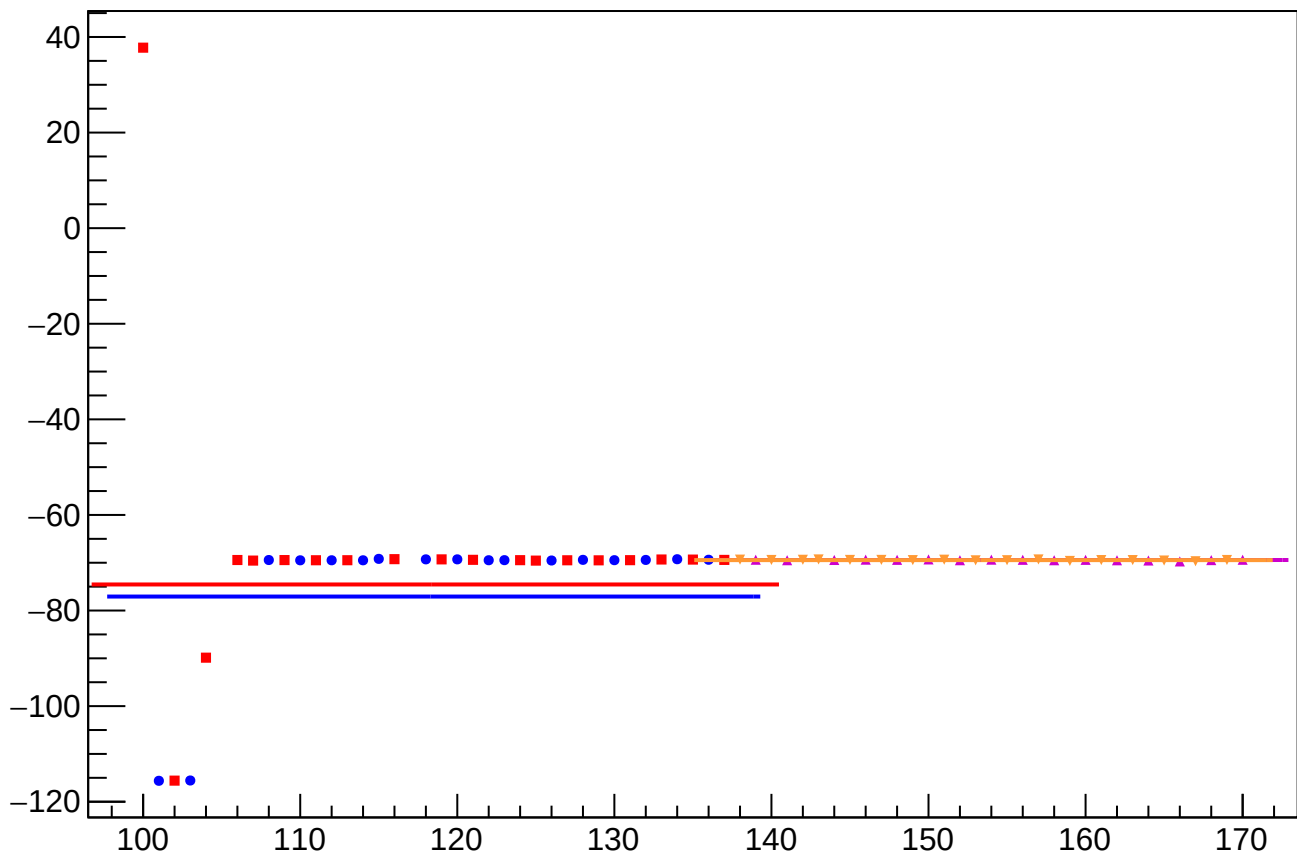
Right: 0.042 $\pm$ 0.000 χ^2 /NDF: 116001.6/33

In: 0.044 $\pm$ 0.000 χ^2 /NDF:263956.0/31

Out: 0.044 $\pm$ 0.000 χ^2 /NDF:282023.5/33

All: 0.044 $\pm$ 0.000 χ^2 /NDF: 546541.4/65

yield_dsr_mean vs Slug, Sign Corrected



Right In: -77.074+/-0.000 χ^2/NDF : 565391865606.1/16

Left Out: -69.450+/-0.000 χ^2/NDF : 39320204.7/16

Right Out: -74.547+/-0.000 χ^2/NDF : 371890102737.4/18

Left In: -69.428+/-0.000 χ^2/NDF : 31664318.6/15

Left: -69.439+/-0.000 χ^2/NDF : 71990898.5/32

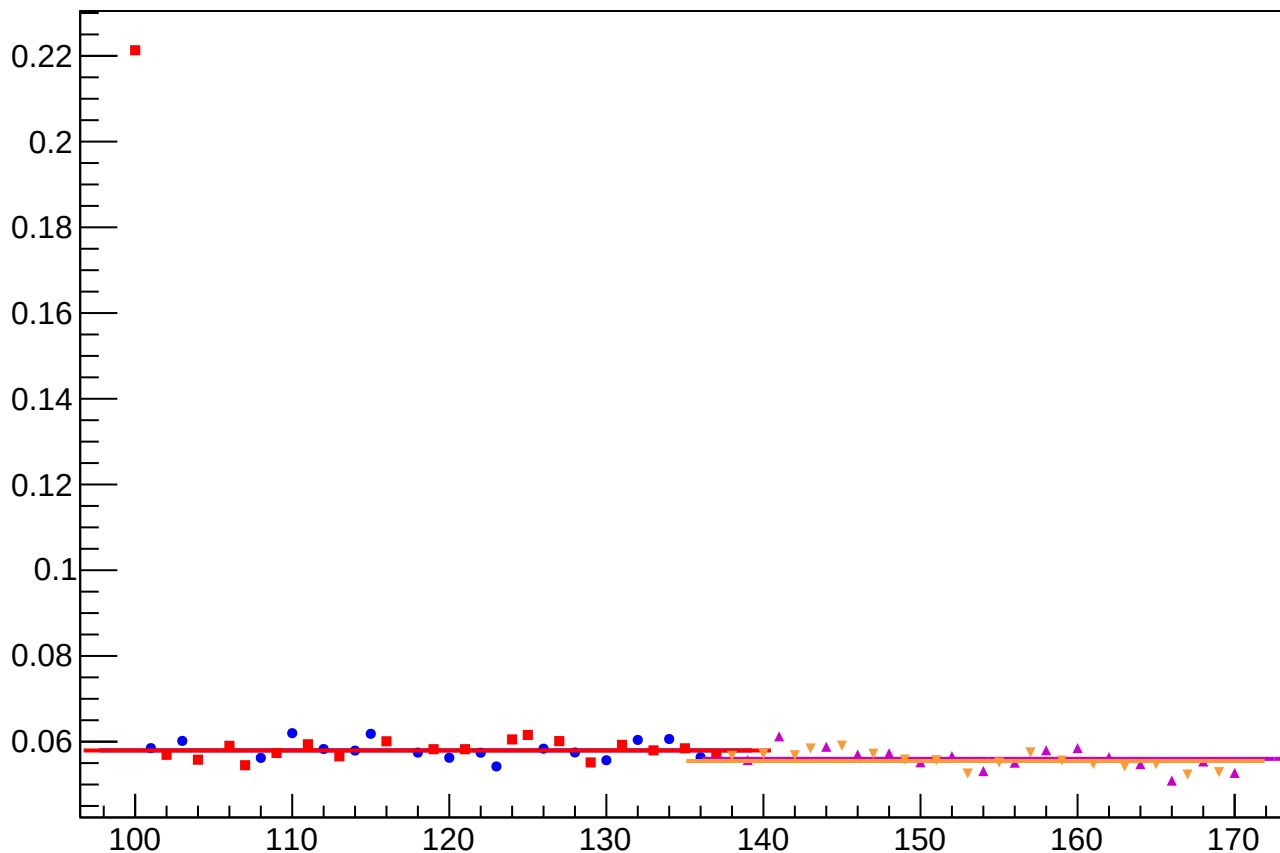
Right: -75.769+/-0.000 χ^2/NDF : 943595296169.5/32

In: -71.969+/-0.000 χ^2/NDF : 640184616550.2/32

Out: -71.179+/-0.000 χ^2/NDF : 406987032635.9/35

All: -71.565+/-0.000 χ^2/NDF : 104900799346

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.058+/-0.000 χ^2/NDF : 12275.6/16

Left Out: 0.055+/-0.000 χ^2/NDF : 29363.9/16

Right Out: 0.058+/-0.000 χ^2/NDF : 86466.5/18

Left In: 0.056+/-0.000 χ^2/NDF : 44771.7/15

Left: 0.056+/-0.000 χ^2/NDF : 75108.7/32

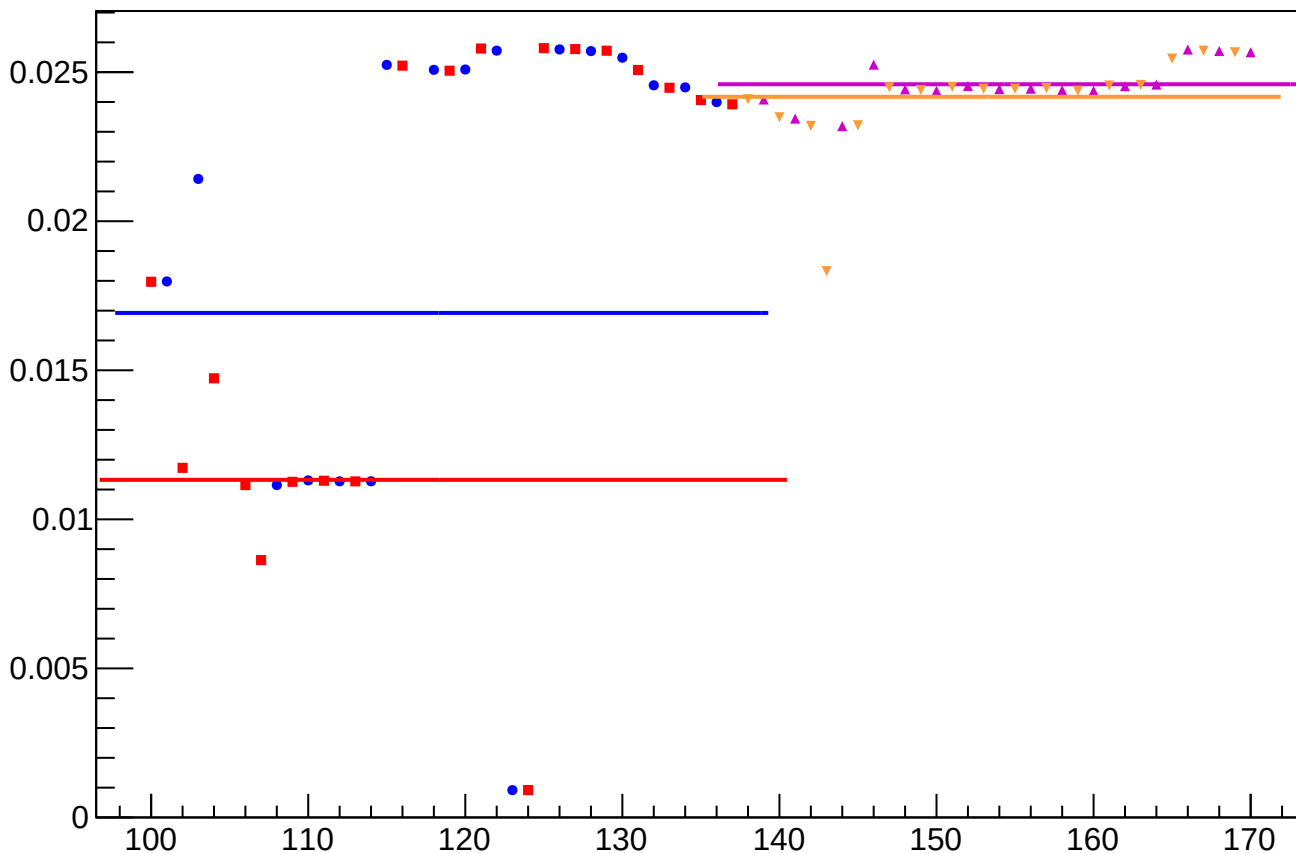
Right: 0.058+/-0.000 χ^2/NDF : 98743.9/35

In: 0.057+/-0.000 χ^2/NDF : 67091.6/32

Out: 0.056+/-0.000 χ^2/NDF : 132039.3/35

All: 0.056+/-0.000 χ^2/NDF : 199757.5/68

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.000

χ^2/NDF : 126447785006.7/16

Left: 0.024+/-0.000

χ^2/NDF : 7631373816.7/32

Left Out: 0.024+/-0.000

χ^2/NDF : 6301745752.6/16

Right: 0.014+/-0.000

χ^2/NDF : 392122680736.2/35

Right Out: 0.011+/-0.000

χ^2/NDF : 234754769754.2/18

In: 0.021+/-0.000

χ^2/NDF : 186030463624.4/32

Out: 0.018+/-0.000

χ^2/NDF : 442231158544.1/35

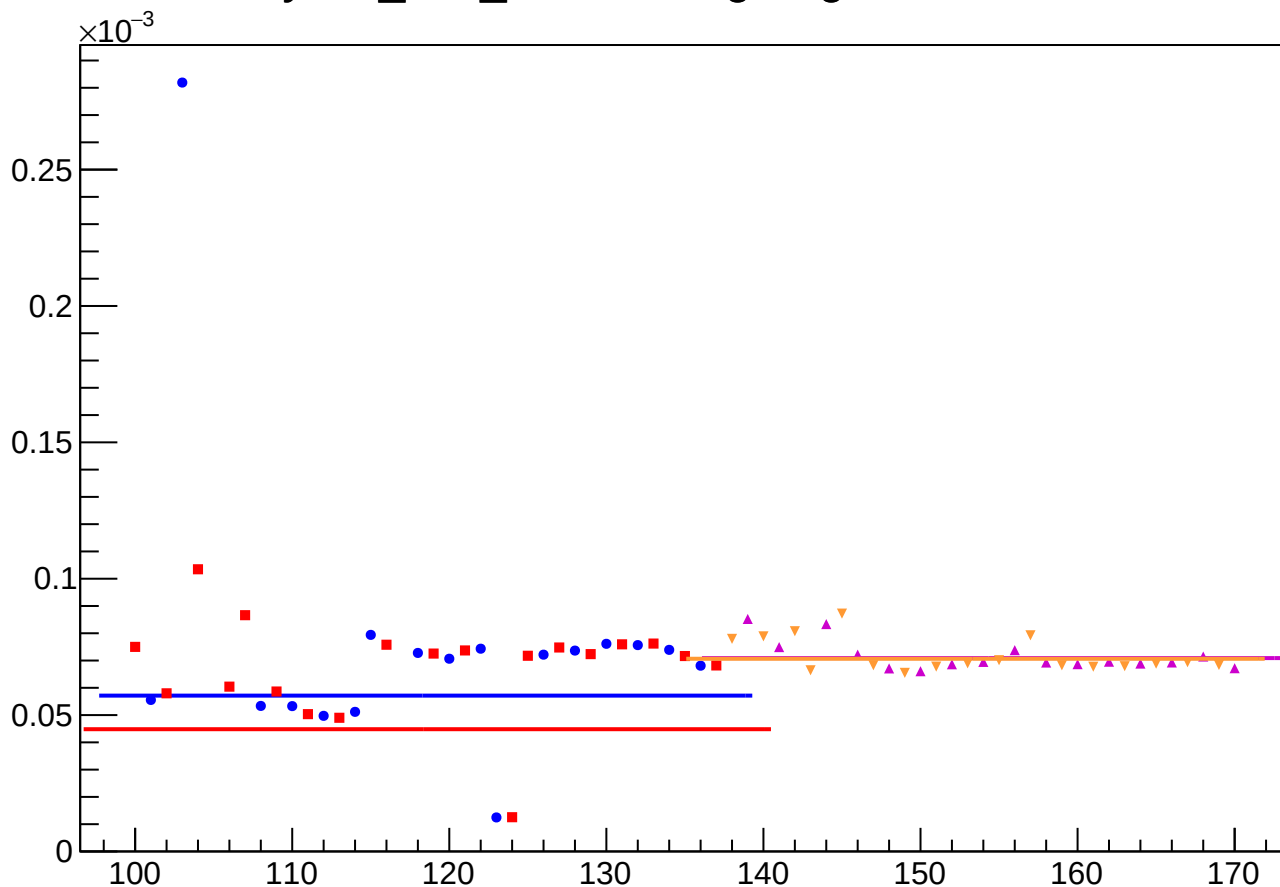
Left In: 0.025+/-0.000

χ^2/NDF : 1111977029.8/15

All: 0.020+/-0.000

χ^2/NDF : 657335294012.9

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2000446.9/16

Left Out: 0.000+/-0.000 χ^2/NDF :142838.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3592224.4/18

Left In: 0.000+/-0.000 χ^2/NDF :111162.0/15

Left: 0.000+/-0.000 χ^2/NDF : 254142.4/32

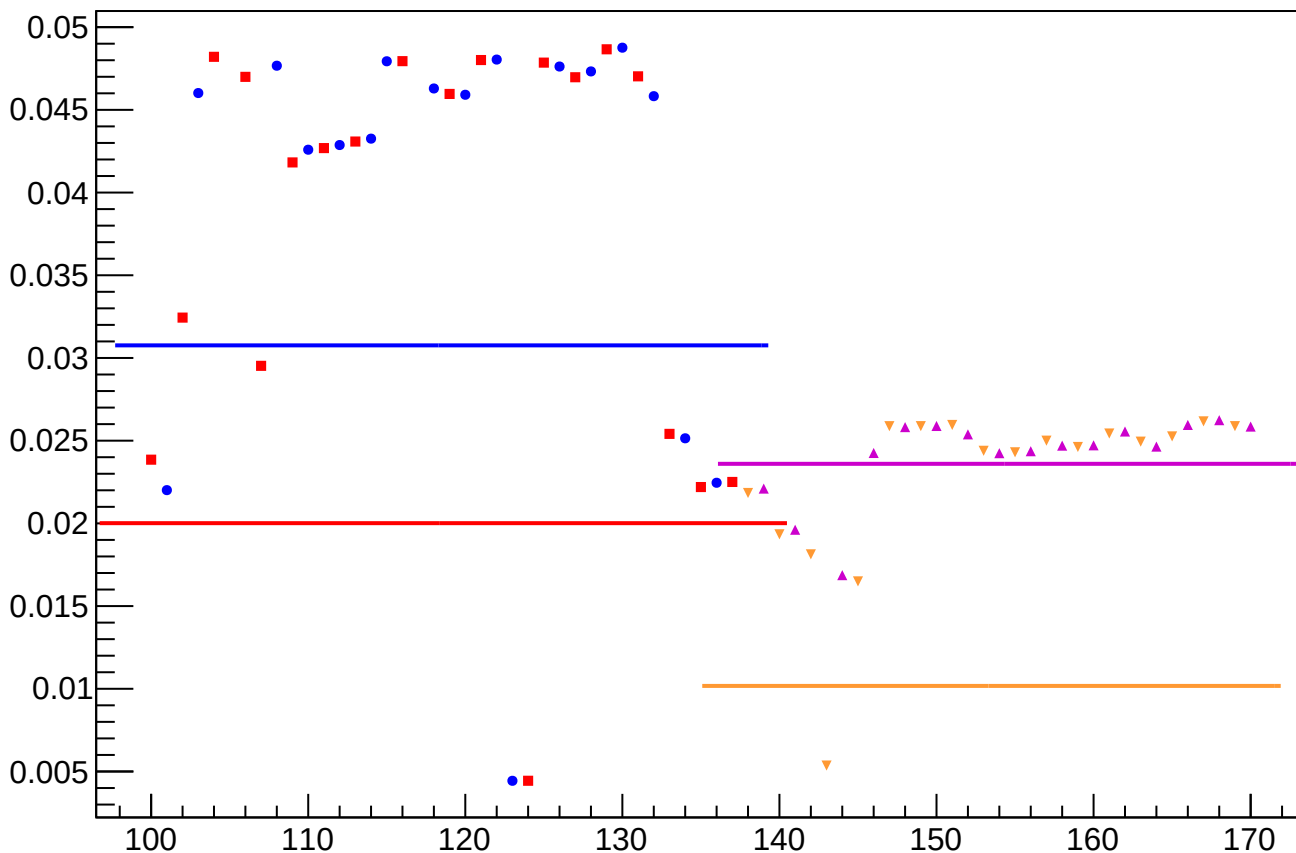
Right: 0.000+/-0.000 χ^2/NDF : 5891779.4/35

In: 0.000+/-0.000 χ^2/NDF :2487812.5/32

Out: 0.000+/-0.000 χ^2/NDF :5361267.4/35

All: 0.000+/-0.000 χ^2/NDF : 8088769.8/68

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.031+/-0.000

χ^2/NDF : 21174738549.0/16

Left: 0.013+/-0.000

χ^2/NDF : 50814382040.6/32

Left Out: 0.010+/-0.000

χ^2/NDF : 31631812708.8/16

Right: 0.024+/-0.000

χ^2/NDF : 66286425044.9/35

Right Out: 0.020+/-0.000

χ^2/NDF : 40011334157.0/18

In: 0.026+/-0.000

χ^2/NDF : 24678583047.0/32

Out: 0.012+/-0.000

χ^2/NDF : 80750723097.6/35

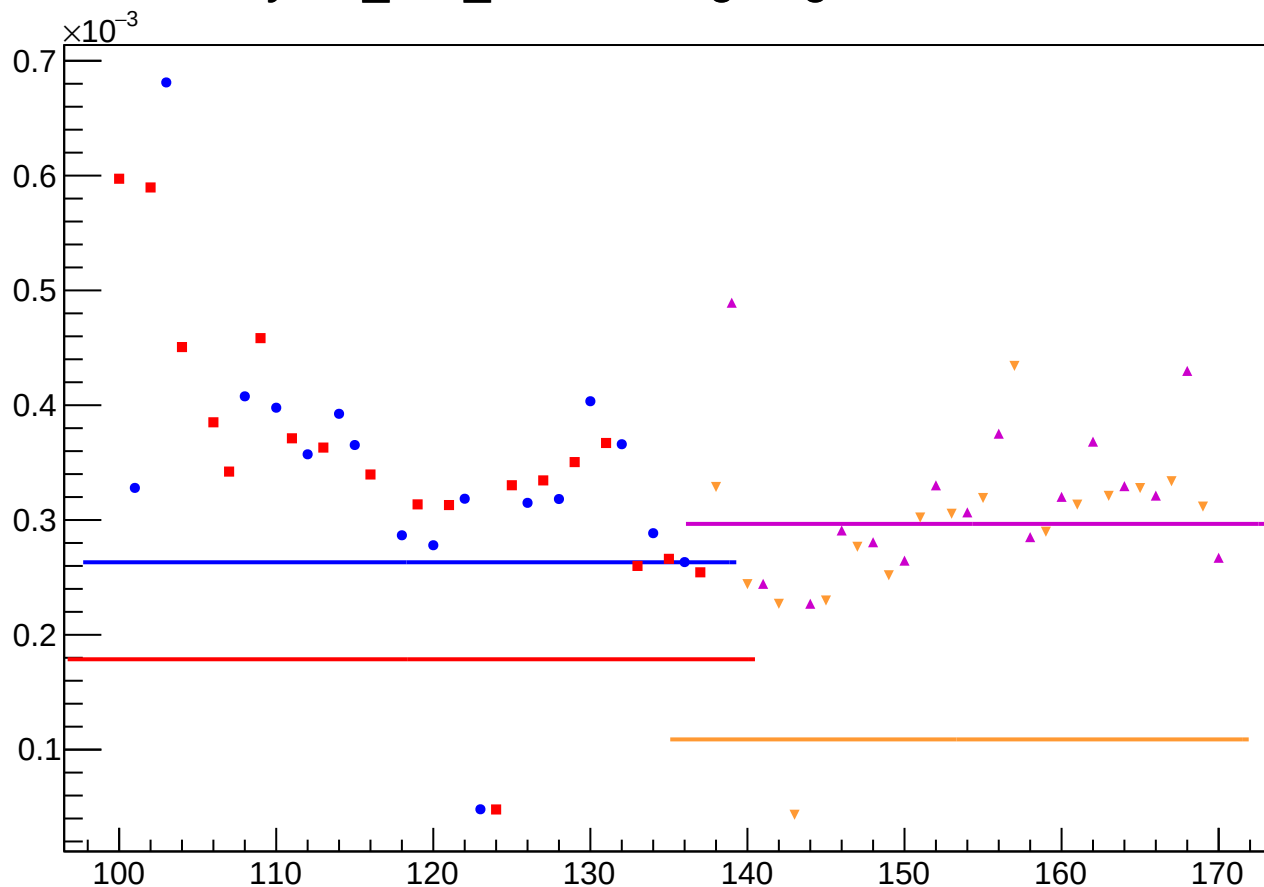
Left In: 0.024+/-0.000

χ^2/NDF : 1176385773.5/15

All: 0.016+/-0.000

χ^2/NDF : 134645644039.4

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2401048.9/16

Left Out: 0.000+/-0.000 χ^2/NDF : 11718999.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 5341022.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 786418.1/15

Left: 0.000+/-0.000 χ^2/NDF : 19544946.4/32

Right: 0.000+/-0.000 χ^2/NDF : 8372315.9/35

In: 0.000+/-0.000 χ^2/NDF : 3288954.8/32

Out: 0.000+/-0.000 χ^2/NDF : 17976603.7/35

All: 0.000+/-0.000 χ^2/NDF : 29024921.3/68

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000

χ^2/NDF : 97152184939.3/16

Left: 0.039 $\pm$ 0.000

χ^2/NDF : 789706391.6/32

Left Out: 0.039 $\pm$ 0.000

χ^2/NDF : 416794826.7/16

Right: 0.032 $\pm$ 0.000

χ^2/NDF : 145974720907.4/35

Right Out: 0.035 $\pm$ 0.000

χ^2/NDF : 120398584718.5/32

In: 0.035 $\pm$ 0.000

χ^2/NDF : 48829057879.0/35

Out: 0.037 $\pm$ 0.000

χ^2/NDF : 48829057879.0/35

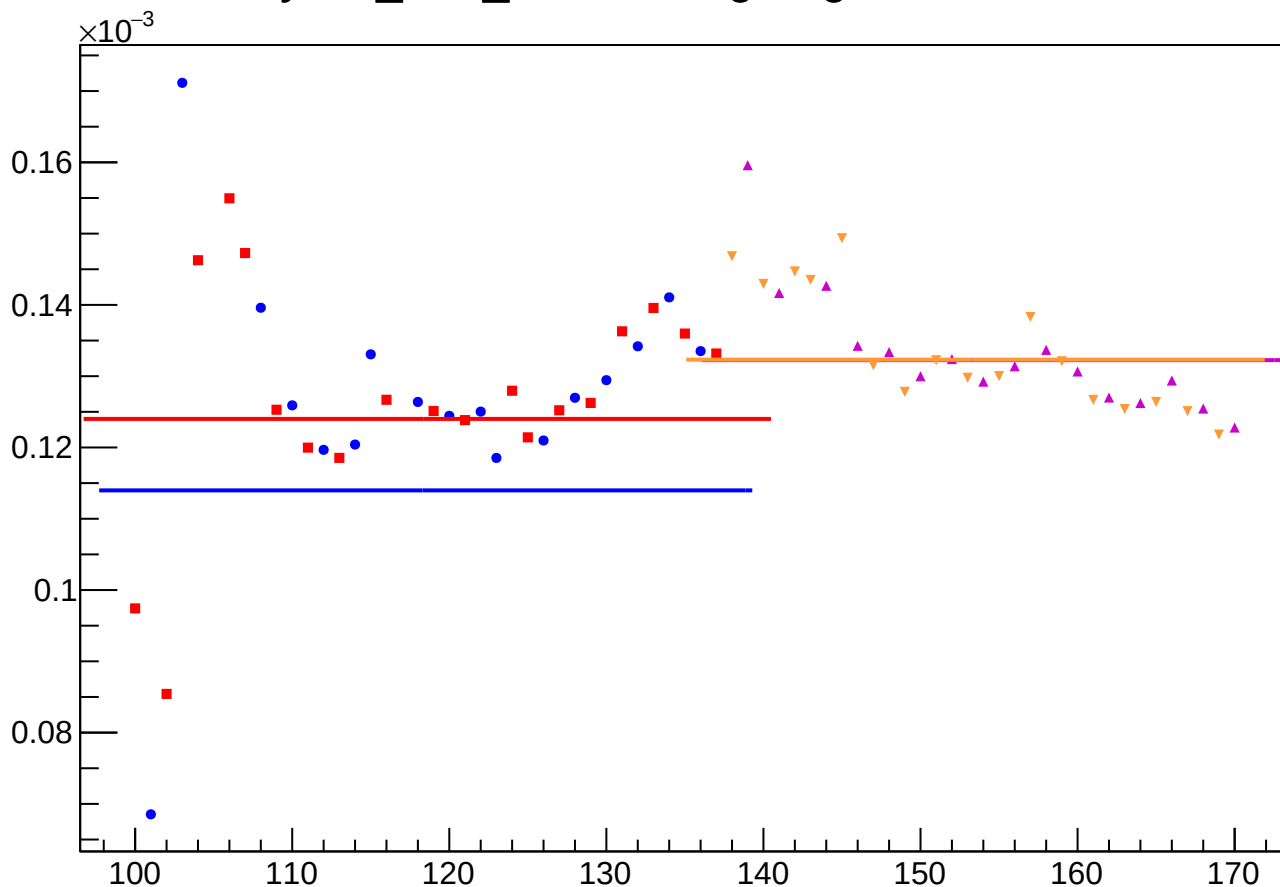
Left In: 0.039 $\pm$ 0.000

χ^2/NDF : 372558614.0/15

All: 0.036 $\pm$ 0.000

χ^2/NDF : 171557716553.8

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 794542.9/16

Left Out: 0.000+/-0.000 χ^2/NDF : 87943.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 245154.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 79994.4/15

Left: 0.000+/-0.000 χ^2/NDF : 167941.5/32

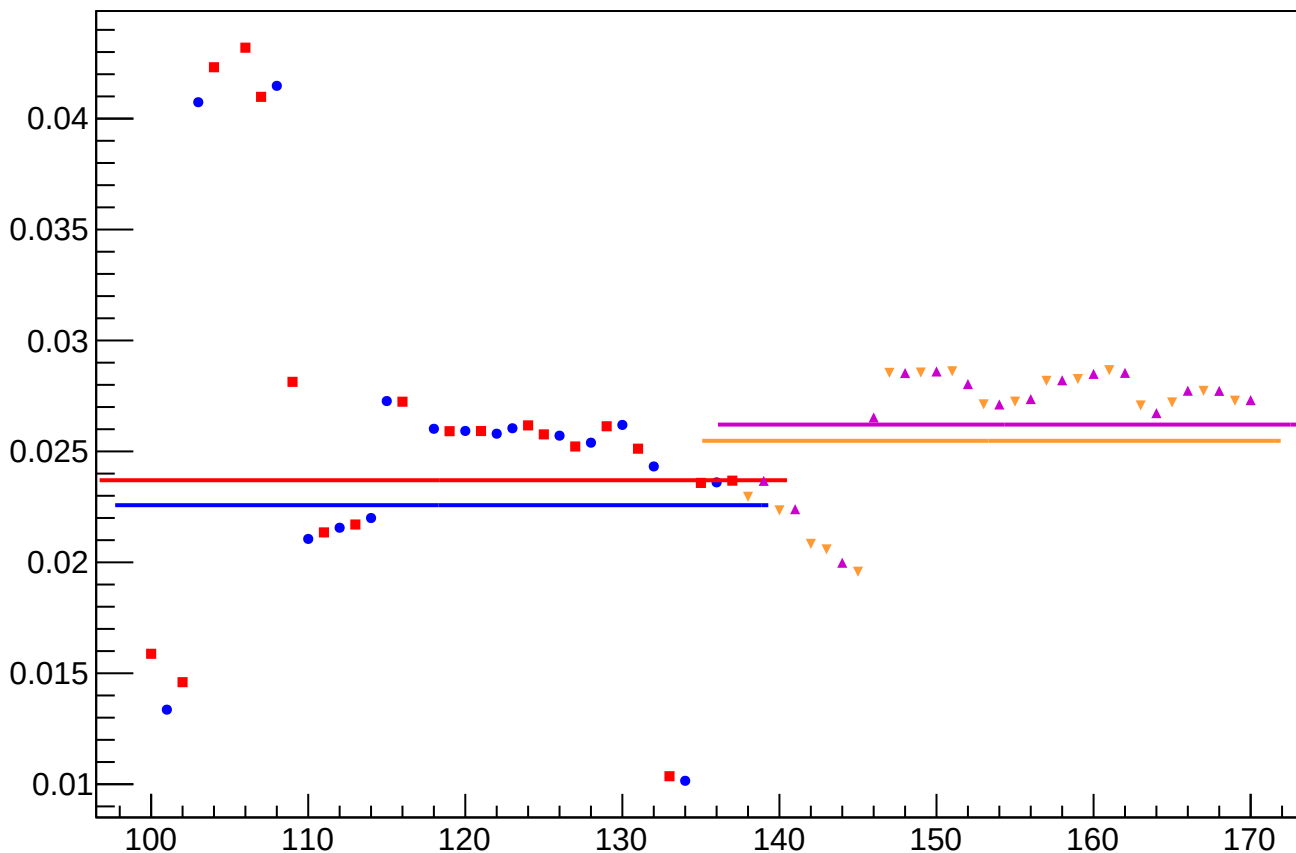
Right: 0.000+/-0.000 χ^2/NDF : 1085105.2/35

In: 0.000+/-0.000 χ^2/NDF : 1062544.9/32

Out: 0.000+/-0.000 χ^2/NDF : 370197.5/35

All: 0.000+/-0.000 χ^2/NDF : 1453955.1/68

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 4247774712.9/16

Left Out: 0.025+/-0.000 χ^2/NDF : 1674085329.8/16

Right Out: 0.024+/-0.000 χ^2/NDF : 5651397656.1/18

Left In: 0.026+/-0.000 χ^2/NDF : 1145645392.8/15

Left: 0.026+/-0.000 χ^2/NDF : 2856935417.5/32

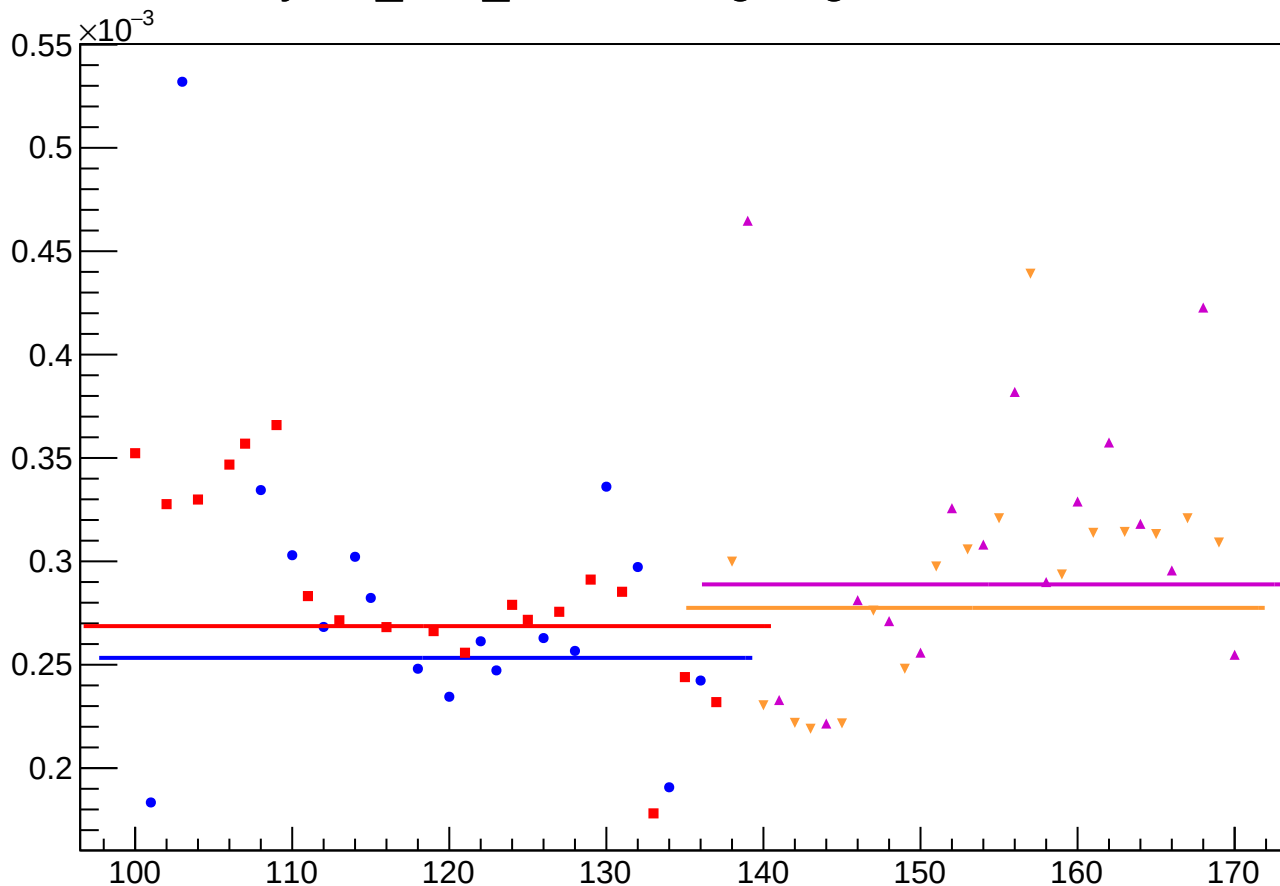
Right: 0.023+/-0.000 χ^2/NDF : 9954563356.3/35

In: 0.025+/-0.000 χ^2/NDF : 6104104644.5/32

Out: 0.025+/-0.000 χ^2/NDF : 7494662206.8/35

All: 0.025+/-0.000 χ^2/NDF : 13599356308.7/6

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 629159.2/16

Left Out: 0.000+/-0.000 χ^2/NDF :604039.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 428329.0/18

Left In: 0.000+/-0.000 χ^2/NDF :841631.4/15

Left: 0.000+/-0.000 χ^2/NDF : 1463571.2/32

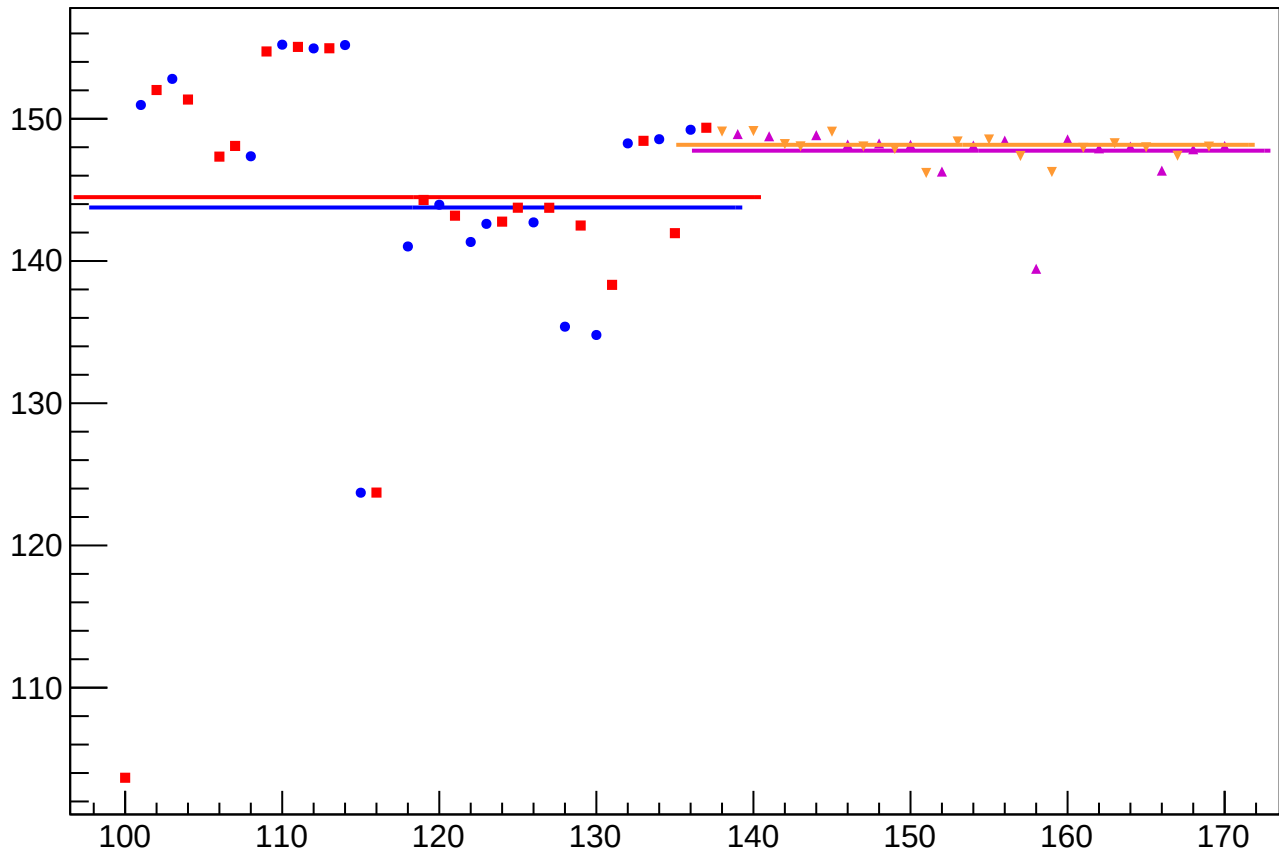
Right: 0.000+/-0.000 χ^2/NDF : 1078147.4/35

In: 0.000+/-0.000 χ^2/NDF :1606801.2/32

Out: 0.000+/-0.000 χ^2/NDF :1040726.1/35

All: 0.000+/-0.000 χ^2/NDF : 2647549.9/68

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 143.763+/-0.000 χ^2/NDF : 3534699505.1/16

Left Out: 148.170+/-0.000 χ^2/NDF : 52457549.5/16

Right Out: 144.490+/-0.000 χ^2/NDF : 4182548232.5/18

Left In: 147.757+/-0.000 χ^2/NDF : 325567373.3/15

Left: 147.969+/-0.000 χ^2/NDF : 384191559.7/32

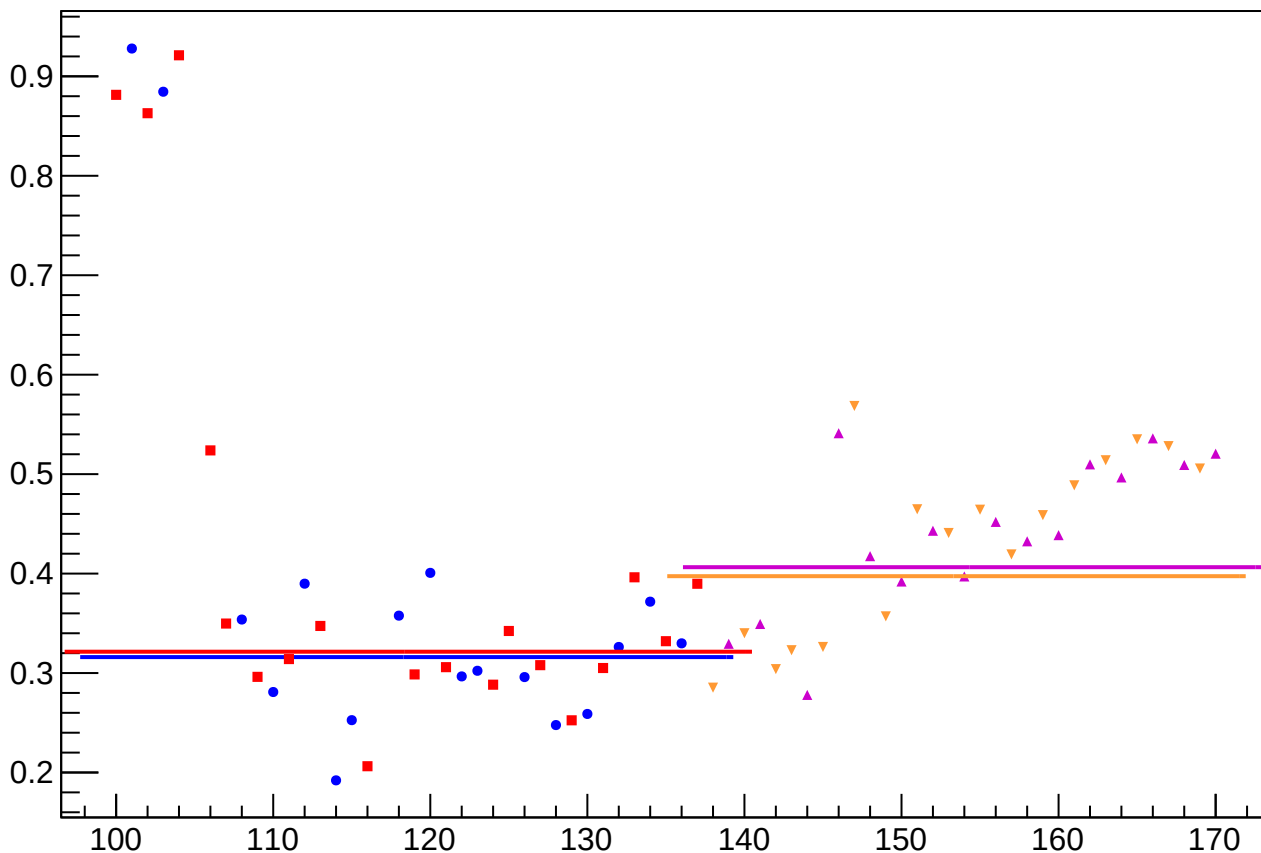
Right: 144.130+/-0.000 χ^2/NDF : 7732099987.4/35

In: 145.995+/-0.000 χ^2/NDF : 4356026866.6/32

Out: 146.575+/-0.000 χ^2/NDF : 4669832046.0/35

All: 146.290+/-0.000 χ^2/NDF : 9047452847.3

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.316+/-0.000 χ^2/NDF : 1265921.5/16

Left Out: 0.397+/-0.000 χ^2/NDF : 1118082.8/16

Right Out: 0.321+/-0.000 χ^2/NDF : 1219073.9/18

Left In: 0.406+/-0.000 χ^2/NDF : 920643.0/15

Left: 0.402+/-0.000 χ^2/NDF : 2044630.4/32

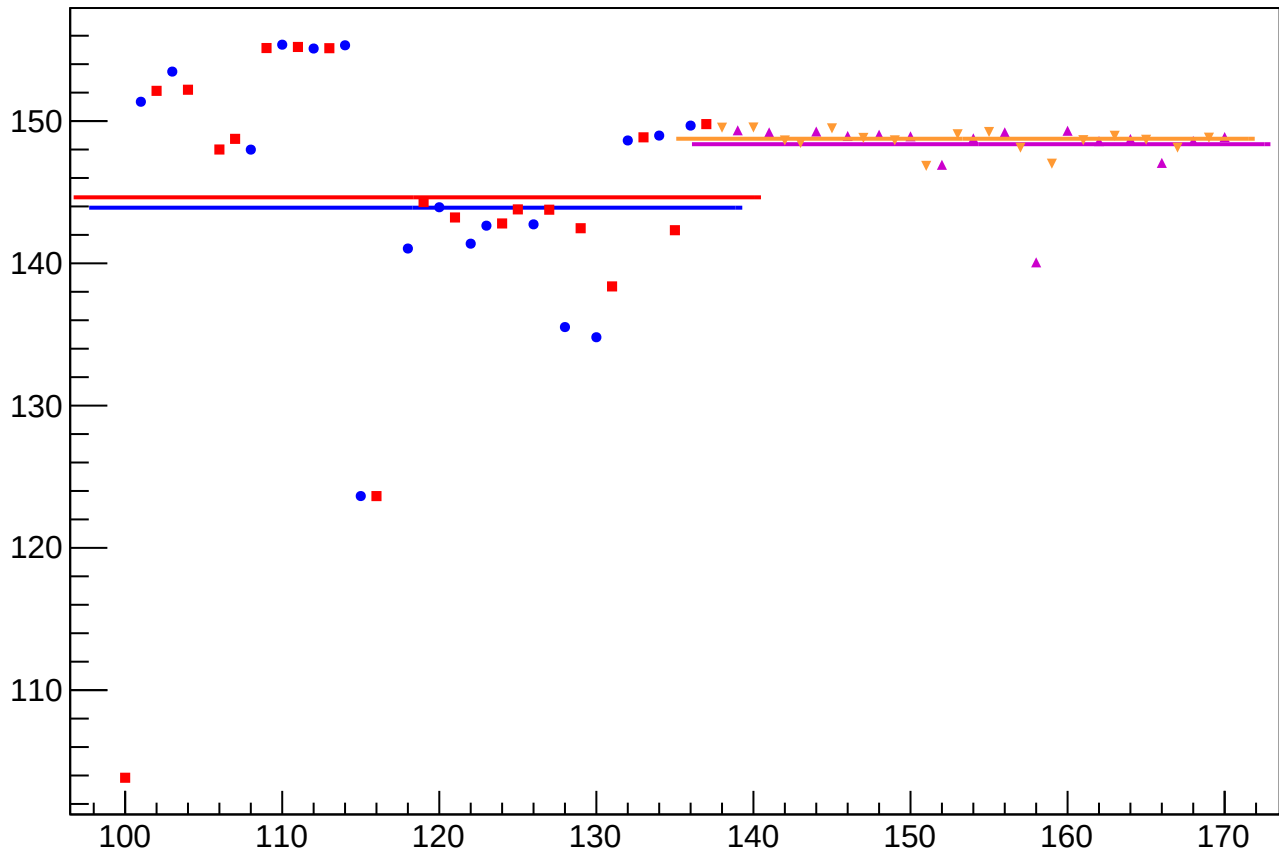
Right: 0.319+/-0.000 χ^2/NDF : 2486648.0/35

In: 0.367+/-0.000 χ^2/NDF : 2694524.0/32

Out: 0.364+/-0.000 χ^2/NDF : 2707434.5/35

All: 0.365+/-0.000 χ^2/NDF : 5402512.7/68

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 143.912 $\pm$ 0.000 χ^2 /NDF: 3587769790.2/16

Left Out: 148.758 $\pm$ 0.000 χ^2 /NDF: 40904914.0/16

Right Out: 144.640 $\pm$ 0.000 χ^2 /NDF: 4209610240.4/18

Left In: 148.374 $\pm$ 0.000 χ^2 /NDF: 314840600.9/15

Left: 148.571 $\pm$ 0.000 χ^2 /NDF: 360959560.1/32

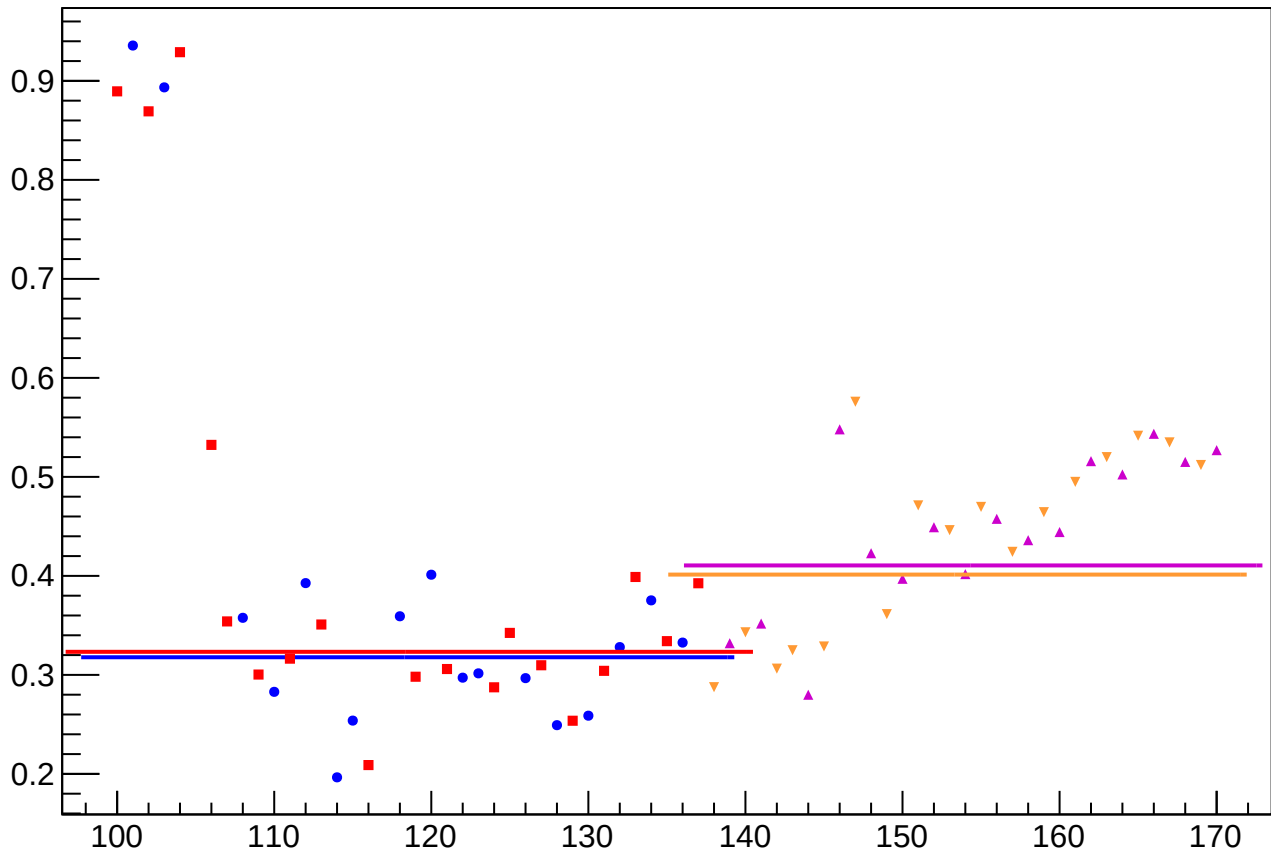
Right: 144.280 $\pm$ 0.000 χ^2 /NDF: 7812104995.9/35

In: 146.395 $\pm$ 0.000 χ^2 /NDF: 4511790992.2/32

Out: 146.964 $\pm$ 0.000 χ^2 /NDF: 4786504093.4/35

All: 146.685 $\pm$ 0.000 χ^2 /NDF: 9318752987.4

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.318+/-0.000 χ^2/NDF : 1268257.9/16

Left Out: 0.401+/-0.000 χ^2/NDF :1138705.9/16

Right Out: 0.323+/-0.000 χ^2/NDF : 1222241.9/18

Left In: 0.411+/-0.000 χ^2/NDF :939183.8/15

Left: 0.406+/-0.000 χ^2/NDF : 2083930.0/32

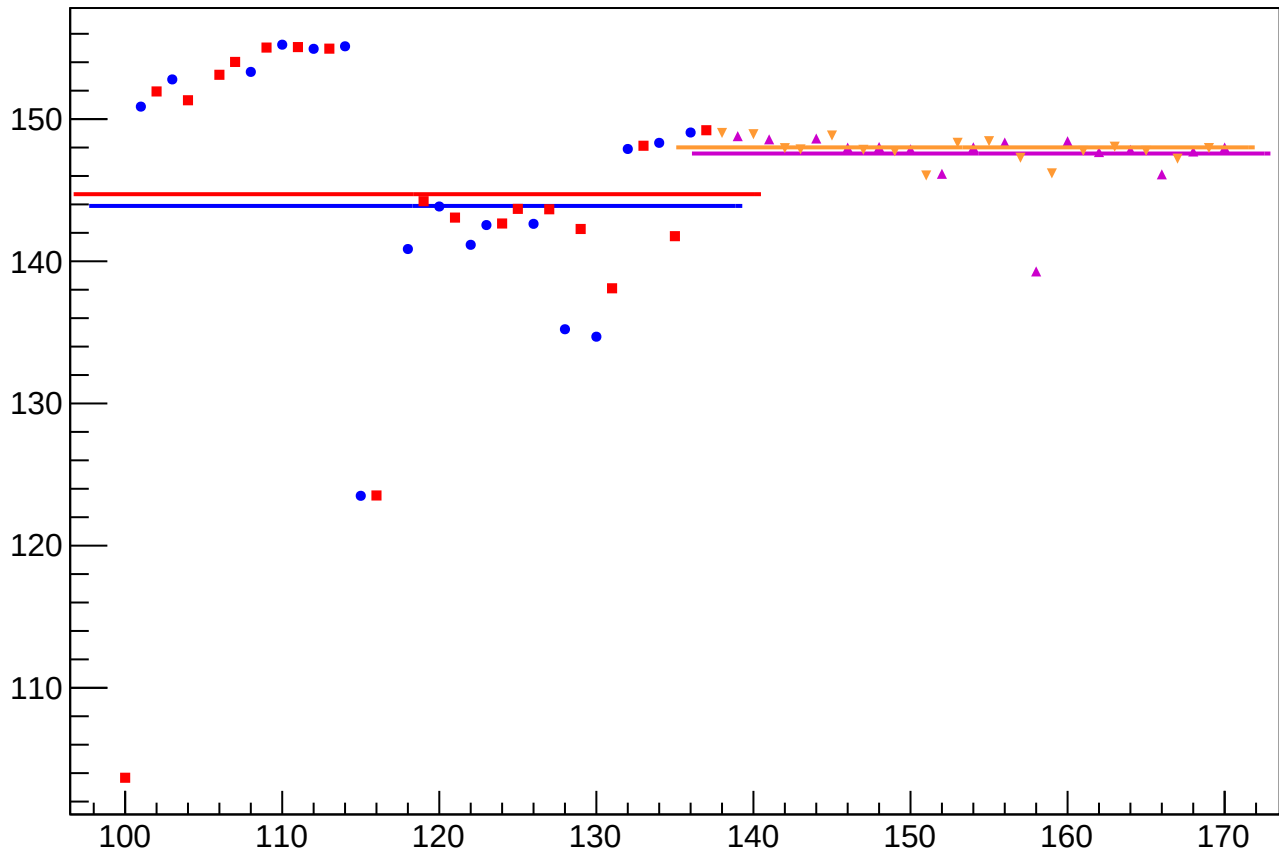
Right: 0.321+/-0.000 χ^2/NDF : 2492180.0/35

In: 0.369+/-0.000 χ^2/NDF :2733786.8/32

Out: 0.367+/-0.000 χ^2/NDF :2745612.7/35

All: 0.368+/-0.000 χ^2/NDF : 5479948.3/68

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 143.893 $\pm$ 0.000 χ^2 /NDF: 3752655677.2/16

Left Out: 148.012 $\pm$ 0.000 χ^2 /NDF: 50898464.9/16

Right Out: 144.719 $\pm$ 0.000 χ^2 /NDF: 4473225884.5/18

Left In: 147.579 $\pm$ 0.000 χ^2 /NDF: 324623189.5/15

Left: 147.801 $\pm$ 0.000 χ^2 /NDF: 382229673.7/32

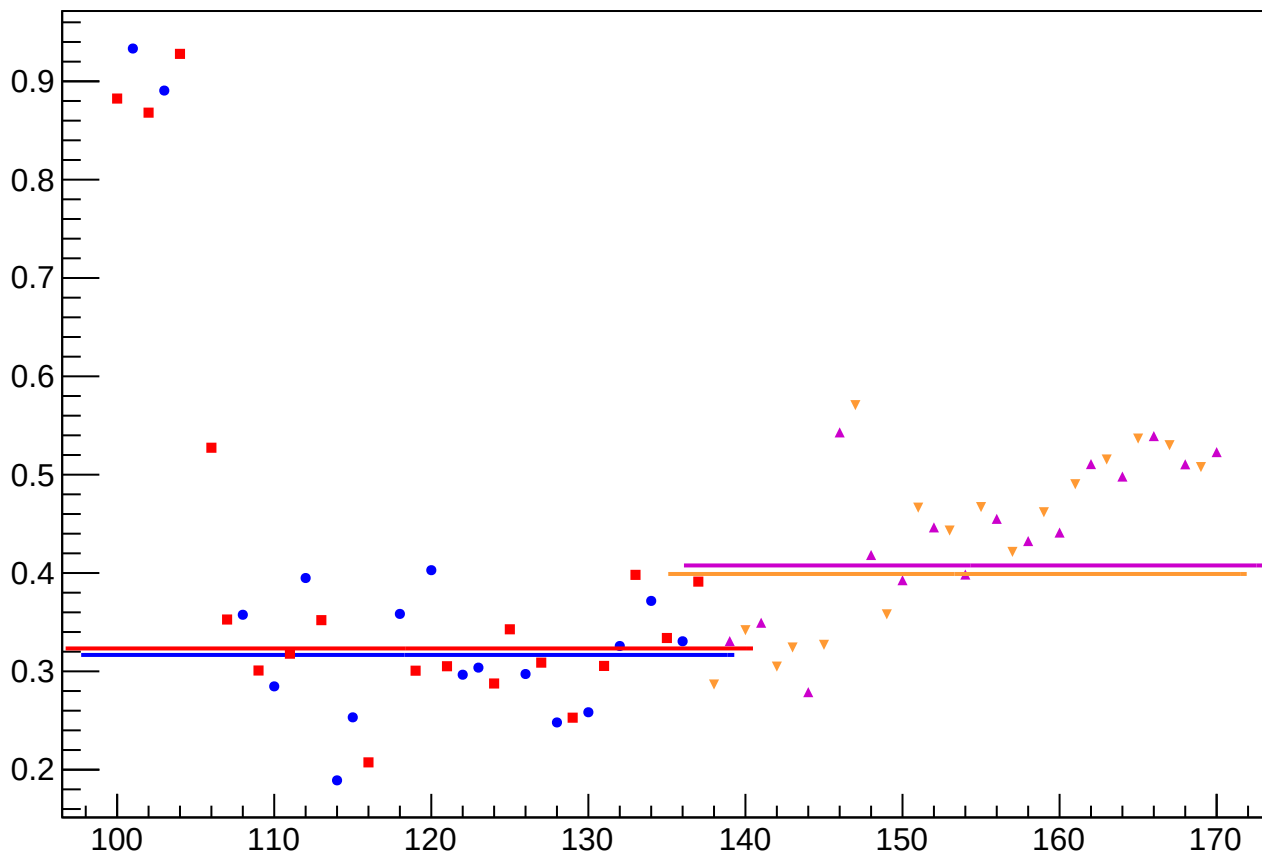
Right: 144.309 $\pm$ 0.000 χ^2 /NDF: 8244852440.8/35

In: 145.953 $\pm$ 0.000 χ^2 /NDF: 4496833765.0/32

Out: 146.587 $\pm$ 0.000 χ^2 /NDF: 4868748944.3/35

All: 146.275 $\pm$ 0.000 χ^2 /NDF: 9391173901.1

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.317+/-0.000 χ^2/NDF : 1280358.6/16

Left Out: 0.399+/-0.000 χ^2/NDF : 1118997.2/16

Right Out: 0.323+/-0.000 χ^2/NDF : 1222784.7/18

Left In: 0.408+/-0.000 χ^2/NDF : 925583.4/15

Left: 0.403+/-0.000 χ^2/NDF : 2049961.0/32

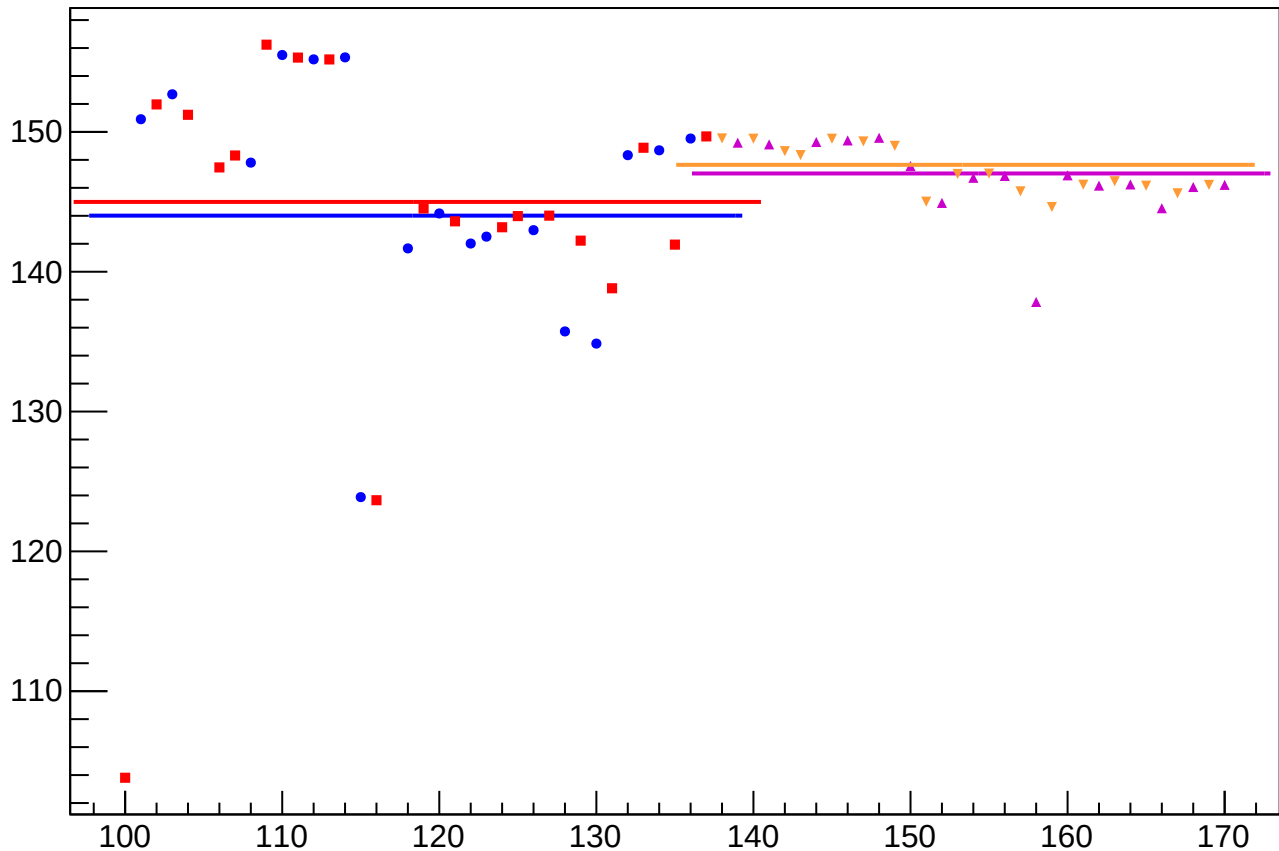
Right: 0.320+/-0.000 χ^2/NDF : 2505560.8/35

In: 0.368+/-0.000 χ^2/NDF : 2717340.9/32

Out: 0.366+/-0.000 χ^2/NDF : 2706427.7/35

All: 0.367+/-0.000 χ^2/NDF : 5423980.7/68

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.012 ± 0.000 $\chi^2/\text{NDF}: 3241696920.3/16$

Left Out: 147.646 ± 0.000 $\chi^2/\text{NDF}: 196314086.0/16$

Right Out: 144.994 ± 0.000 $\chi^2/\text{NDF}: 3852381452.1/18$

Left In: 147.029 ± 0.000 $\chi^2/\text{NDF}: 505064251.7/15$

Left: 147.345 ± 0.000 $\chi^2/\text{NDF}: 714126616.6/32$

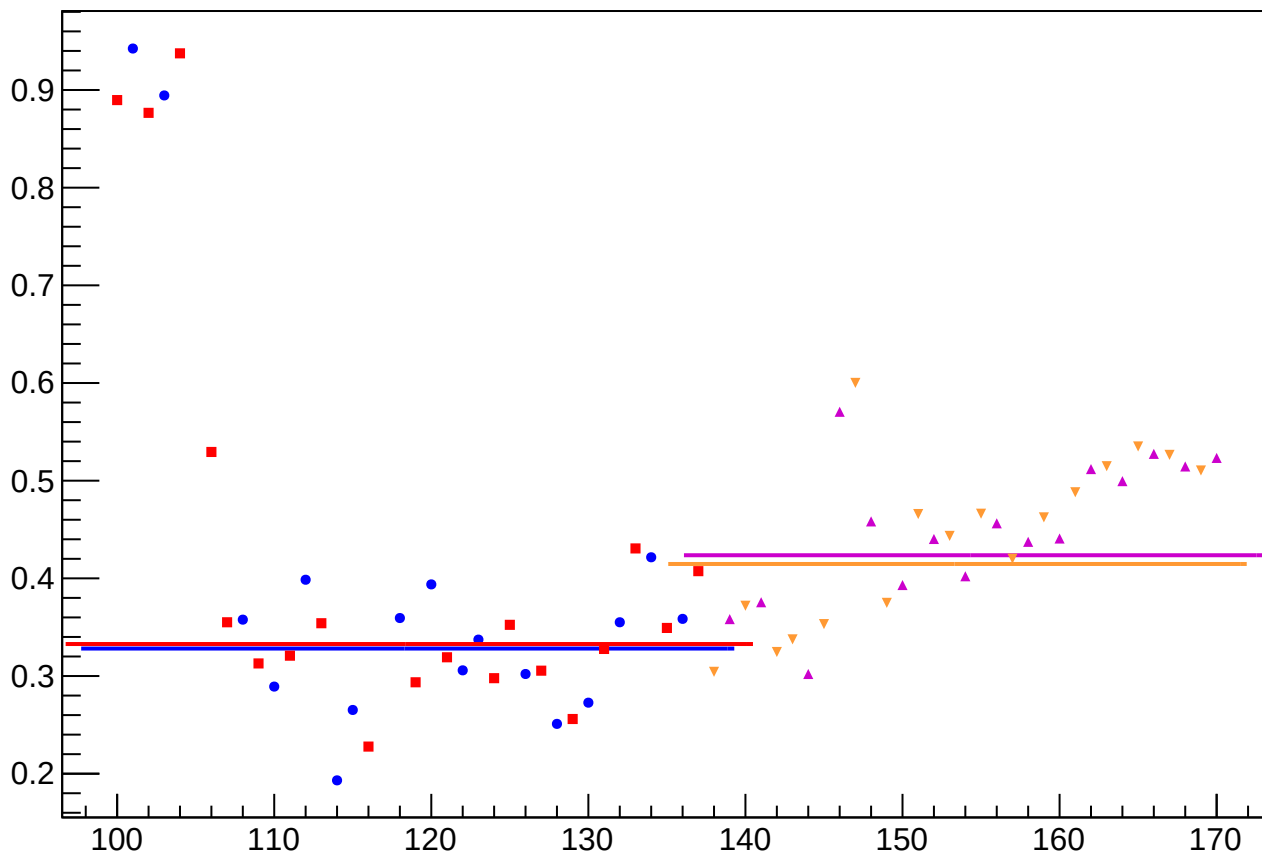
Right: 144.510 ± 0.000 $\chi^2/\text{NDF}: 7119138597.7/35$

In: 145.702 ± 0.000 $\chi^2/\text{NDF}: 4008338241.4/32$

Out: 146.491 ± 0.000 $\chi^2/\text{NDF}: 4258511662.3/35$

All: 146.104 ± 0.000 $\chi^2/\text{NDF}: 8303885757.7$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.328 $\pm$ 0.000 χ^2 /NDF: 1265892.9/16

Left Out: 0.415 $\pm$ 0.000 χ^2 /NDF: 870580.3/16

Right Out: 0.333 $\pm$ 0.000 χ^2 /NDF: 1185129.6/18

Left In: 0.424 $\pm$ 0.000 χ^2 /NDF: 700193.7/15

Left: 0.419 $\pm$ 0.000 χ^2 /NDF: 1576131.6/32

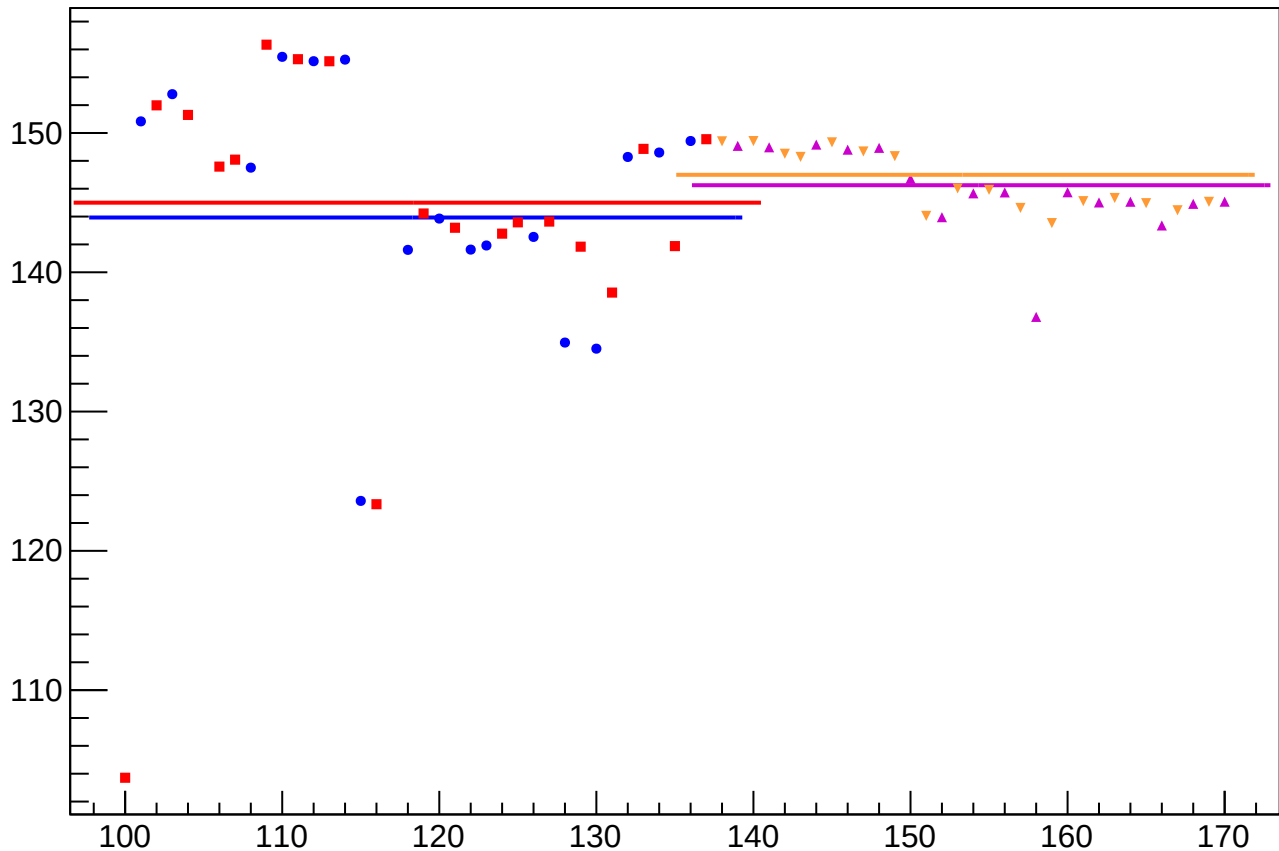
Right: 0.330 $\pm$ 0.000 χ^2 /NDF: 2452140.8/35

In: 0.382 $\pm$ 0.000 χ^2 /NDF: 2490861.7/32

Out: 0.379 $\pm$ 0.000 χ^2 /NDF: 2456175.4/35

All: 0.380 $\pm$ 0.000 χ^2 /NDF: 4947849.3/68

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 143.932 $\pm$ 0.000 χ^2/NDF : 3383012861.2/16

Left Out: 146.998 $\pm$ 0.000 χ^2/NDF :302902770.0/16

Right Out: 144.998 $\pm$ 0.000 χ^2/NDF : 3932958476.0/18

Left In: 146.251 $\pm$ 0.000 χ^2/NDF :625372659.3/15

Left: 146.633 $\pm$ 0.000 χ^2/NDF : 946875108.7/32

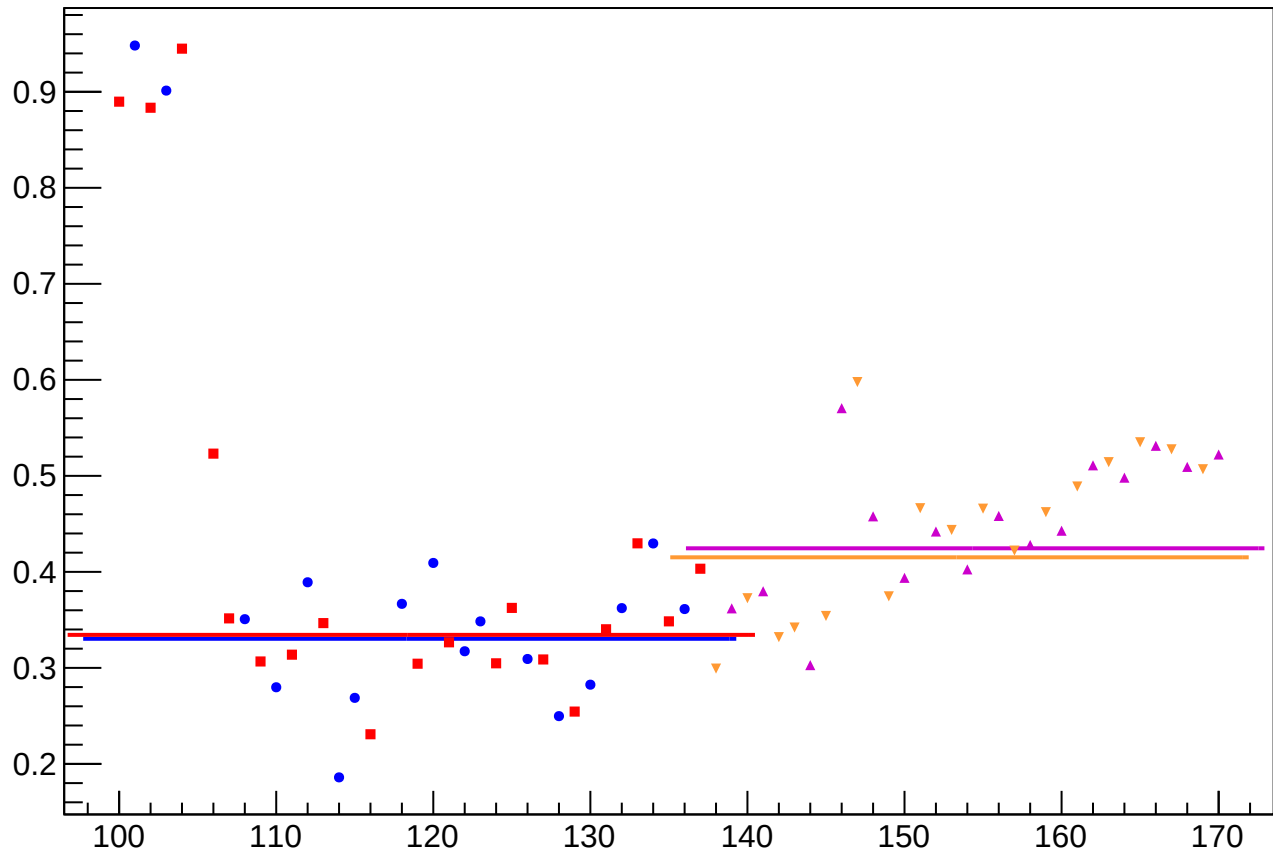
Right: 144.474 $\pm$ 0.000 χ^2/NDF : 7345100324.4/35

In: 145.238 $\pm$ 0.000 χ^2/NDF :4161102836.6/32

Out: 146.131 $\pm$ 0.000 χ^2/NDF :4354210681.0/35

All: 145.694 $\pm$ 0.000 χ^2/NDF : 8562341481.2

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.330 $\pm$ 0.000 χ^2/NDF : 1283955.7/16

Left Out: 0.415 $\pm$ 0.000 χ^2/NDF : 865206.7/16

Right Out: 0.334 $\pm$ 0.000 χ^2/NDF : 1174012.0/18

Left In: 0.425 $\pm$ 0.000 χ^2/NDF : 676603.0/15

Left: 0.420 $\pm$ 0.000 χ^2/NDF : 1547685.9/32

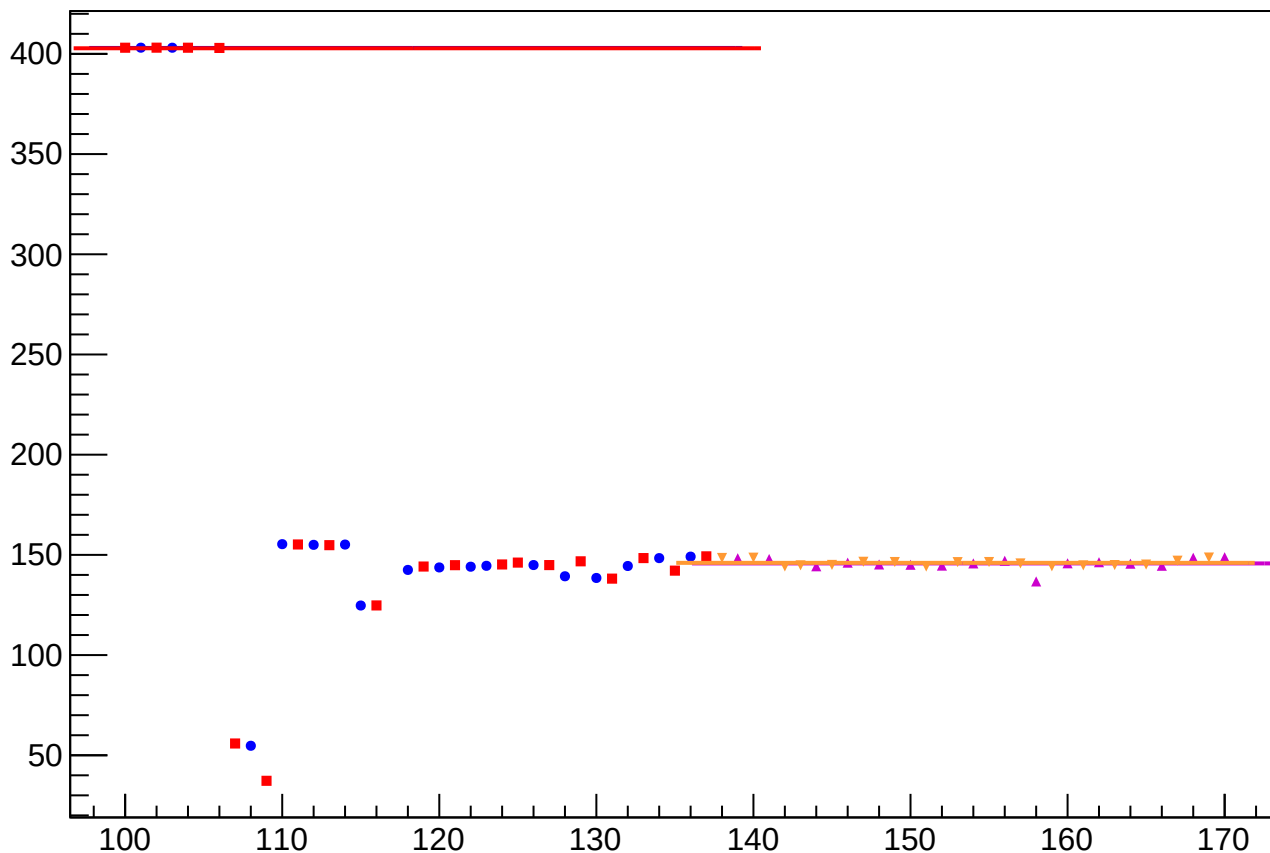
Right: 0.332 $\pm$ 0.000 χ^2/NDF : 2458819.5/35

In: 0.383 $\pm$ 0.000 χ^2/NDF : 2465160.0/32

Out: 0.380 $\pm$ 0.000 χ^2/NDF : 2425106.9/35

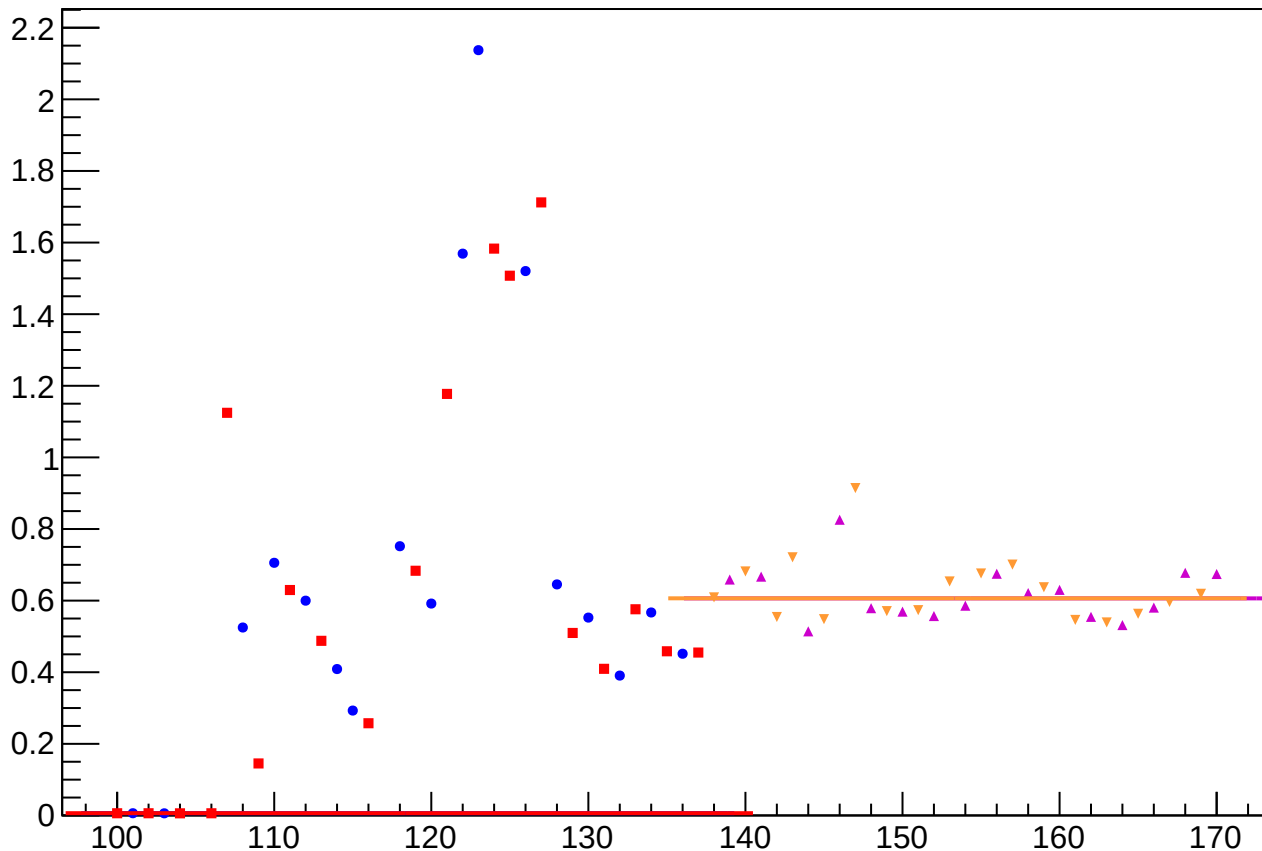
All: 0.382 $\pm$ 0.000 χ^2/NDF : 4891502.1/68

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.958+/-0.000	χ^2/NDF : 1094364588383.4/16	Left: 145.879+/-0.000	χ^2/NDF : 226156696.1/32
Left Out: 146.021+/-0.000	χ^2/NDF : 59865854.1/16	Right: 402.873+/-0.000	χ^2/NDF : 4196818264482.1/16
Right Out: 402.799+/-0.000	χ^2/NDF : 3102036567767.5/18	In: 402.750+/-0.000	χ^2/NDF : 2758259185533.6/32
Left In: 145.735+/-0.000	χ^2/NDF : 165252271.5/15	Out: 402.614+/-0.000	χ^2/NDF : 4772712020450.3/32
		All: 402.678+/-0.000	χ^2/NDF : 753127588527.1/16

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 9079322.7/16

Left Out: 0.606+/-0.000 χ^2/NDF : 255854.1/16

Right Out: 0.006+/-0.000 χ^2/NDF : 9193355.5/18

Left In: 0.606+/-0.000 χ^2/NDF : 226071.4/15

Left: 0.606+/-0.000 χ^2/NDF : 481926.3/32

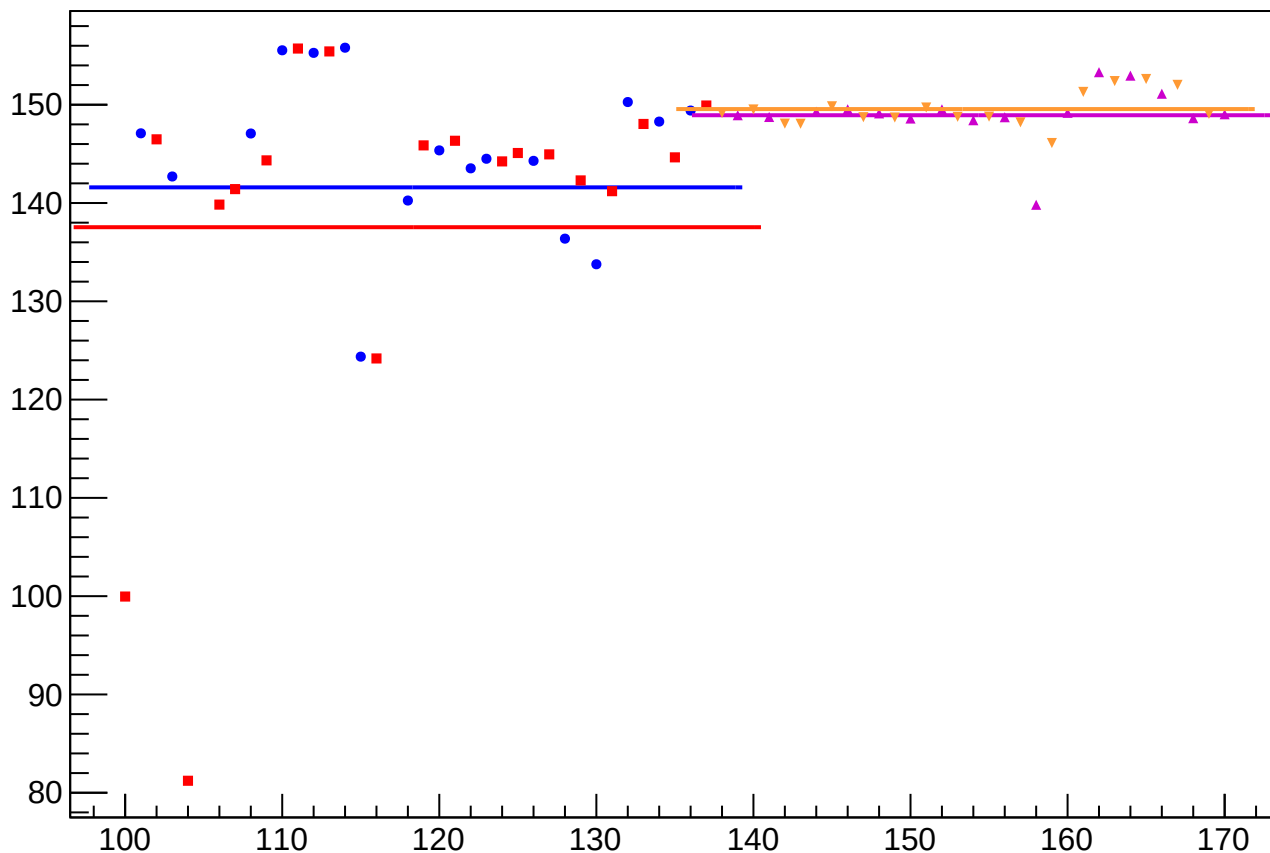
Right: 0.006+/-0.000 χ^2/NDF : 18272681.8/35

In: 0.007+/-0.000 χ^2/NDF : 27405028.4/32

Out: 0.007+/-0.000 χ^2/NDF : 27698362.4/35

All: 0.007+/-0.000 χ^2/NDF : 55103523.9/68

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 141.593 $\pm$ 0.000 χ^2 /NDF: 980101868.2/16

Left Out: 149.558 $\pm$ 0.000 χ^2 /NDF: 119792498.9/16

Right Out: 137.539 $\pm$ 0.000 χ^2 /NDF: 1316096307.7/18

Left In: 148.931 $\pm$ 0.000 χ^2 /NDF: 363120794.8/15

Left: 149.256 $\pm$ 0.000 χ^2 /NDF: 490329851.7/32

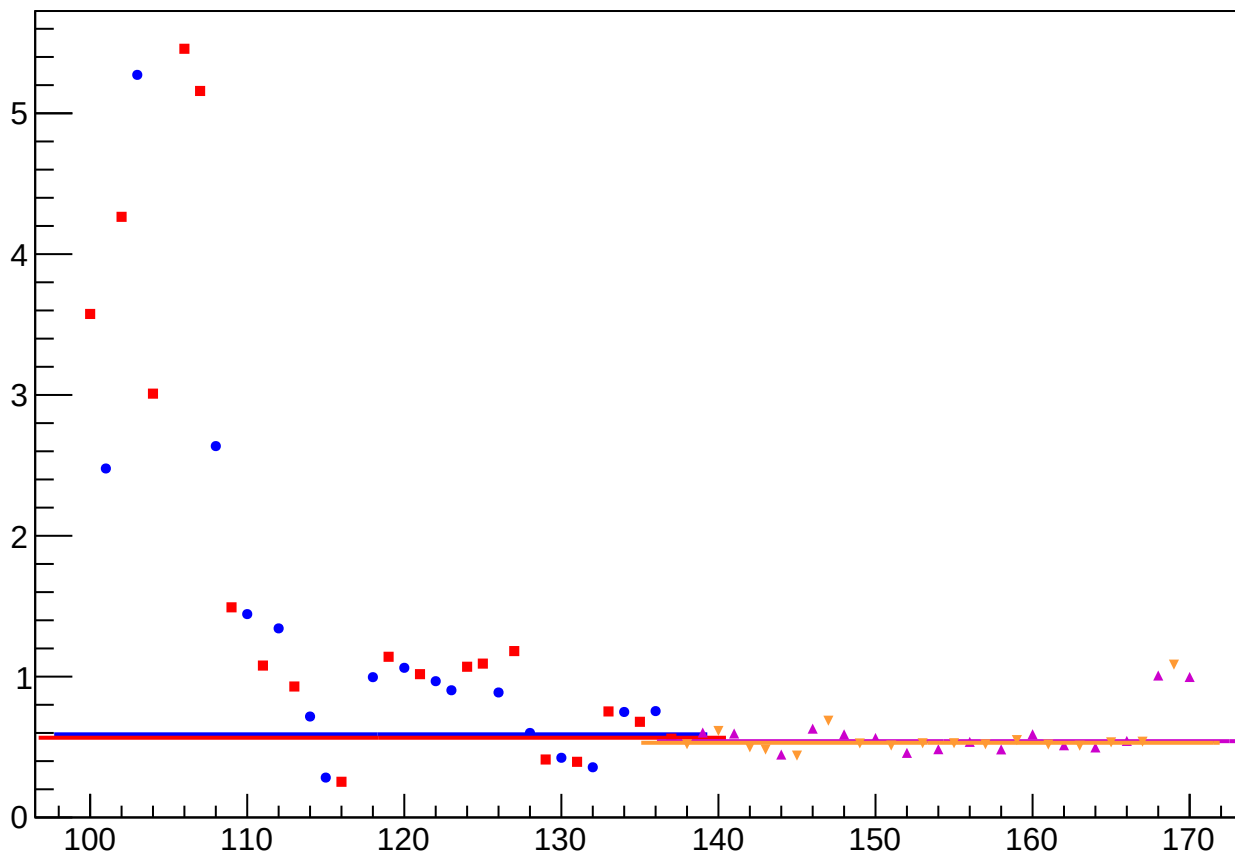
Right: 139.514 $\pm$ 0.000 χ^2 /NDF: 2381261600.7/35

In: 147.339 $\pm$ 0.000 χ^2 /NDF: 1768884063.1/32

Out: 146.995 $\pm$ 0.000 χ^2 /NDF: 2643090391.4/35

All: 147.161 $\pm$ 0.000 χ^2 /NDF: 4414831723.2

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.590 $\pm$ 0.000 χ^2 /NDF: 3491995.1/16

Left Out: 0.530 $\pm$ 0.000 χ^2 /NDF: 527175.9/16

Right Out: 0.566 $\pm$ 0.000 χ^2 /NDF: 4683596.4/18

Left In: 0.542 $\pm$ 0.000 χ^2 /NDF: 830198.5/15

Left: 0.536 $\pm$ 0.000 χ^2 /NDF: 1362311.1/32

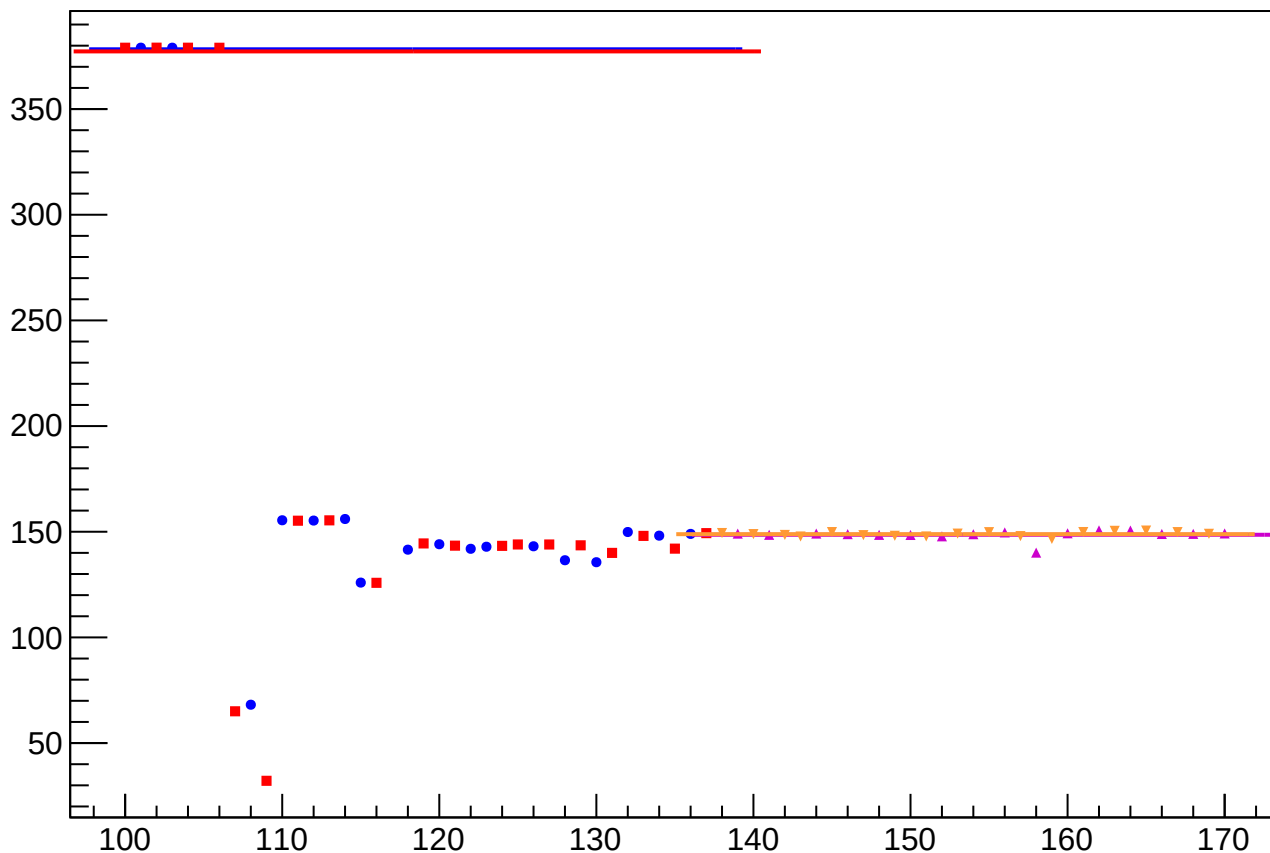
Right: 0.578 $\pm$ 0.000 χ^2 /NDF: 8181648.0/35

In: 0.552 $\pm$ 0.000 χ^2 /NDF: 4359504.8/32

Out: 0.538 $\pm$ 0.000 χ^2 /NDF: 5232226.6/35

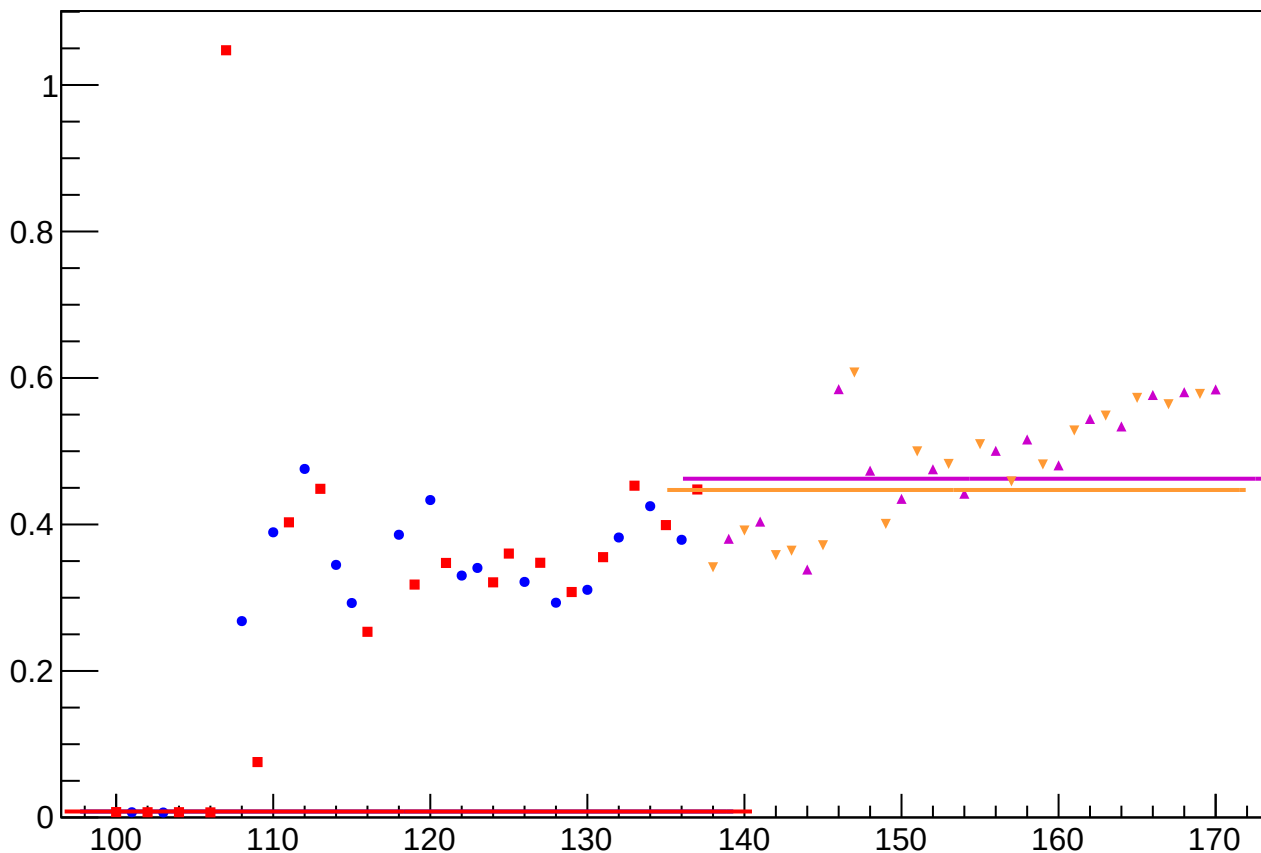
All: 0.545 $\pm$ 0.000 χ^2 /NDF: 9601615.2/68

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 378.283 +/- 0.000 χ^2/NDF : 2508313421453.8/16
 Left Out: 148.846 +/- 0.000 χ^2/NDF : 59999986.1/16
 Right Out: 377.287 +/- 0.000 χ^2/NDF : 8286303106836.4/18
 Left In: 148.566 +/- 0.000 χ^2/NDF : 234725527.8/15
 All: 376.834 +/- 0.000 χ^2/NDF : 167963164713

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 9806719.4/16

Left Out: 0.447 $\pm$ 0.000 χ^2 /NDF:818844.1/16

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 9522827.2/18

Left In: 0.462 $\pm$ 0.000 χ^2 /NDF:666167.1/15

Left: 0.454 $\pm$ 0.000 χ^2 /NDF: 1498529.1/32

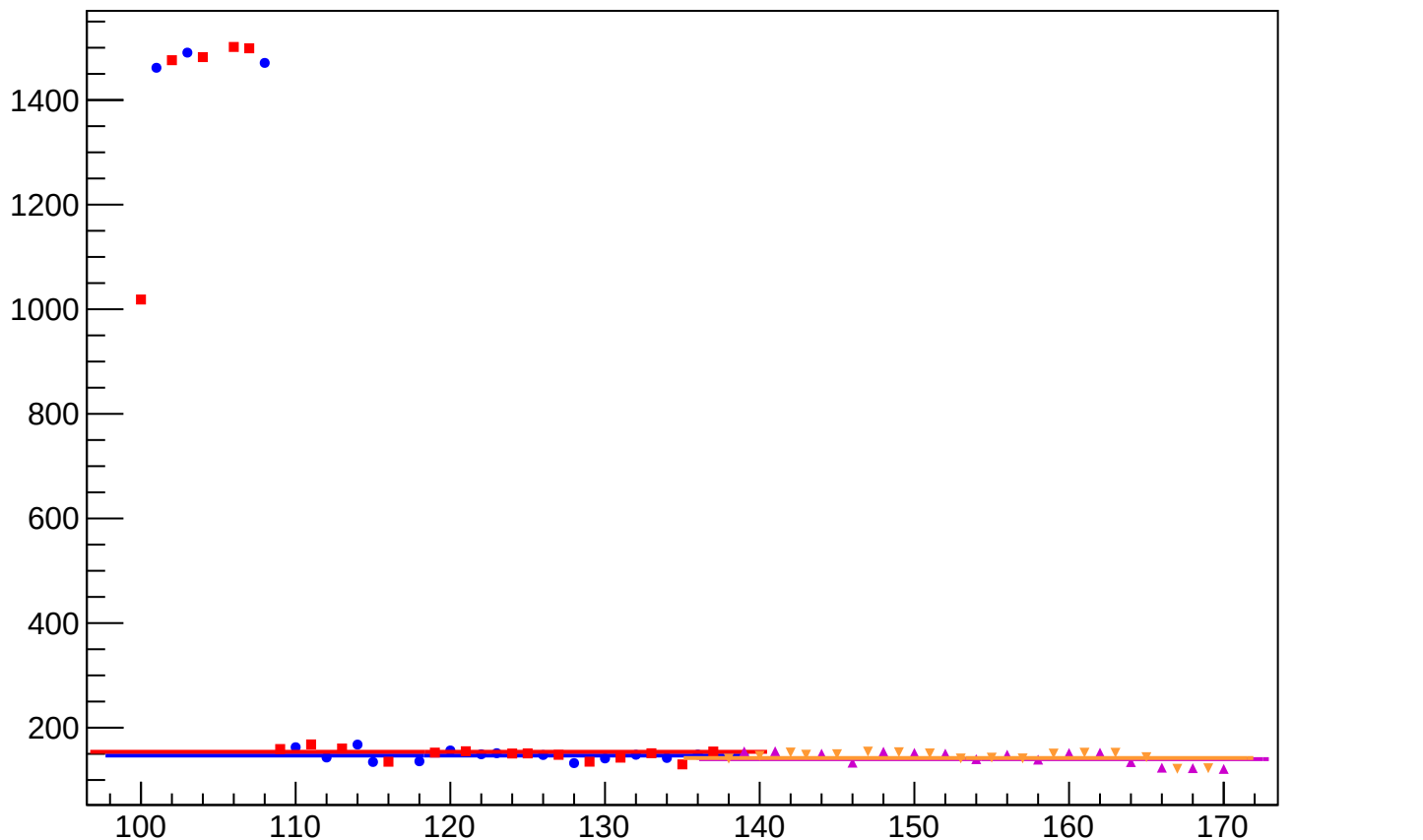
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 19329555.6/35

In: 0.010 $\pm$ 0.000 χ^2 /NDF:33181938.8/32

Out: 0.010 $\pm$ 0.000 χ^2 /NDF:33176624.7/35

All: 0.010 $\pm$ 0.000 χ^2 /NDF: 66358836.8/68

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 146.819 $\pm$ 0.000

χ^2 /NDF: 24360774977.7/16

Left: 140.954 $\pm$ 0.000

χ^2 /NDF: 4304161822.8/32

Right: 150.348 $\pm$ 0.000

χ^2 /NDF: 58231390734.2/35

Left Out: 142.009 $\pm$ 0.000

χ^2 /NDF: 1866679144.1/16

In: 141.746 $\pm$ 0.000

χ^2 /NDF: 26952611279.0/32

Right Out: 153.901 $\pm$ 0.000

χ^2 /NDF: 33737565970.8/18

Out: 145.174 $\pm$ 0.000

χ^2 /NDF: 36153029982.1/35

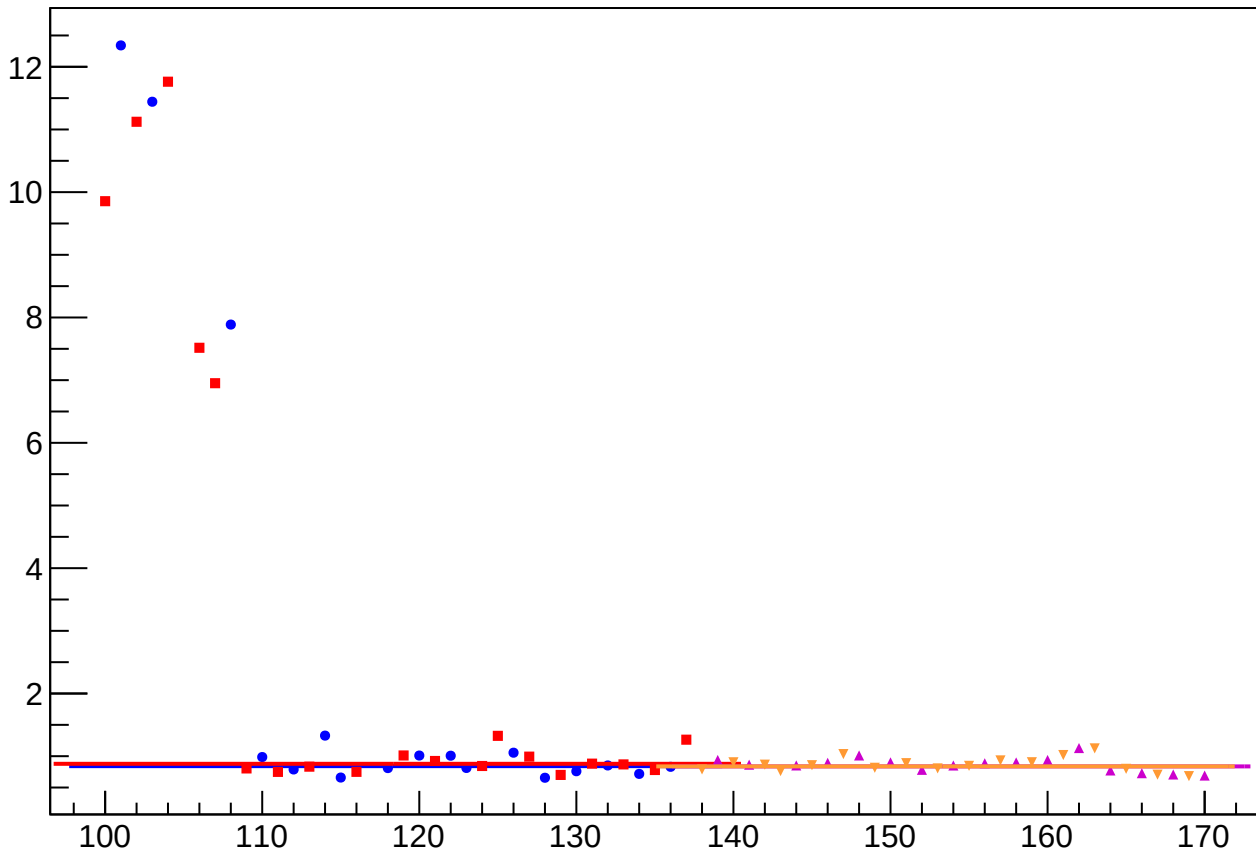
Left In: 139.906 $\pm$ 0.000

χ^2 /NDF: 2405136484.9/15

All: 143.455 $\pm$ 0.000

χ^2 /NDF: 63222717072.0/160

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.841+/-0.000 χ^2/NDF : 2662395.1/16

Left Out: 0.837+/-0.000 χ^2/NDF : 362016.5/16

Right Out: 0.878+/-0.000 χ^2/NDF : 2814626.6/18

Left In: 0.837+/-0.000 χ^2/NDF : 343000.9/15

Left: 0.837+/-0.000 χ^2/NDF : 705019.0/32

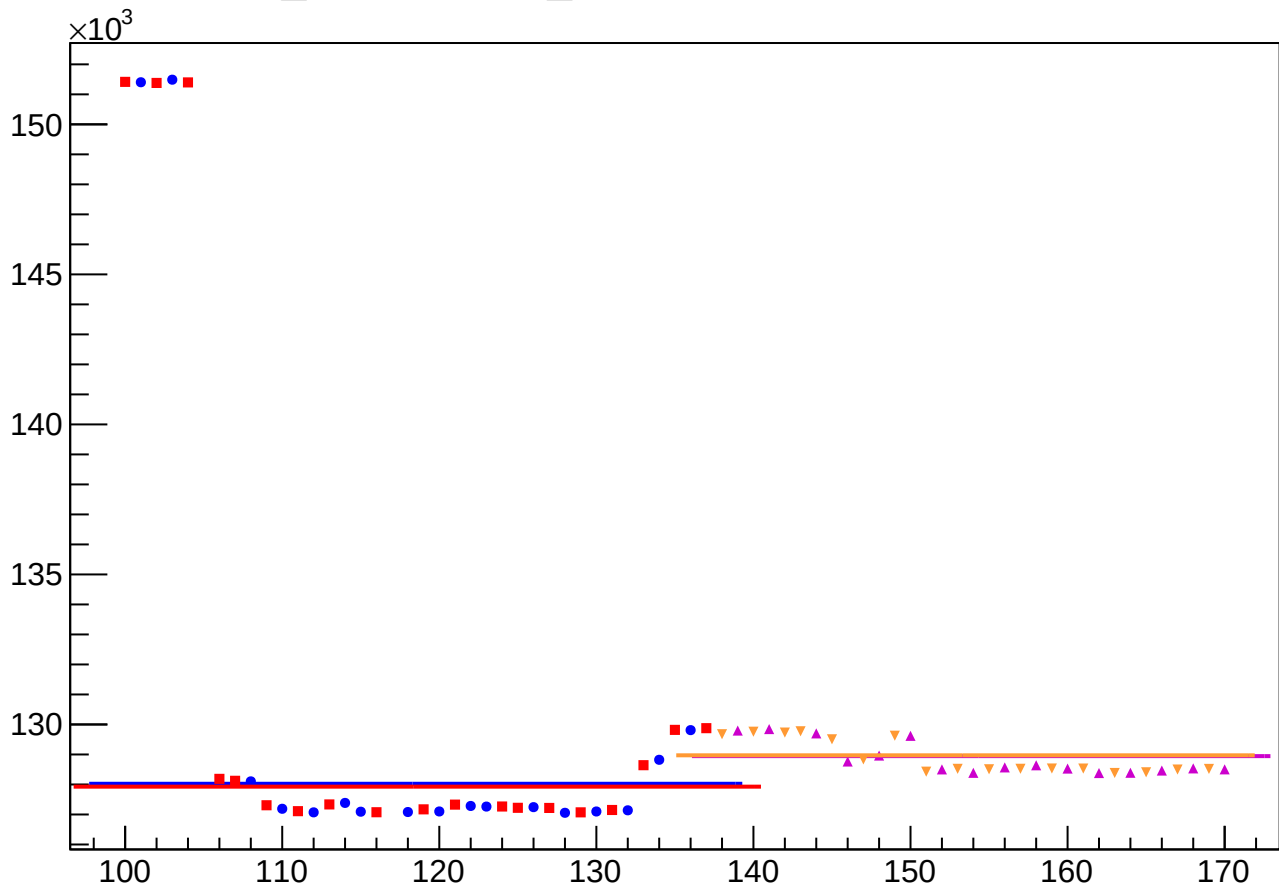
Right: 0.860+/-0.000 χ^2/NDF : 5484331.4/35

In: 0.838+/-0.000 χ^2/NDF : 3005526.9/32

Out: 0.848+/-0.000 χ^2/NDF : 3189614.1/35

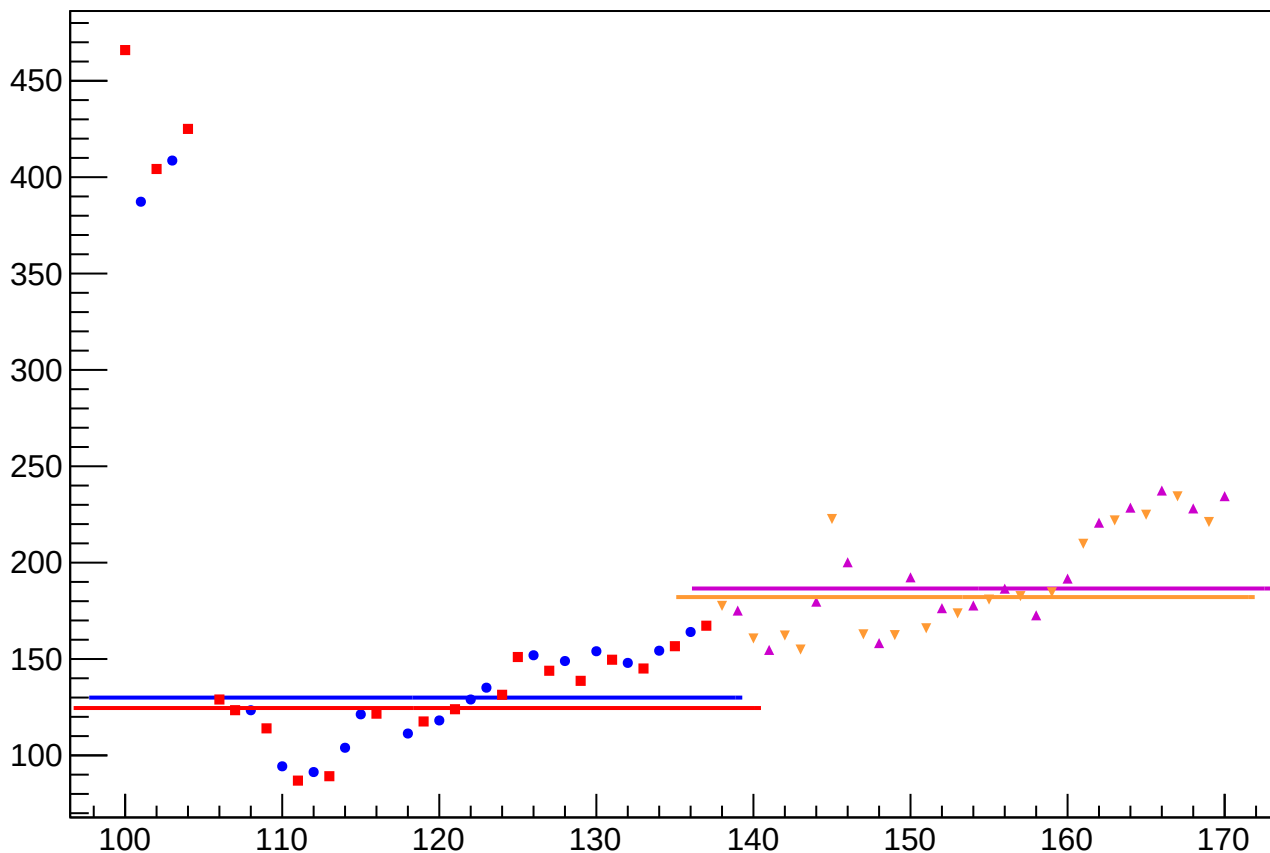
All: 0.843+/-0.000 χ^2/NDF : 6197182.1/68

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 128023.527 $\pm$ 0.055 χ^2 /NDF: 4316540586.9/16
 Left Out: 128972.100 $\pm$ 0.052 χ^2 /NDF: 121805763.3/16
 Right Out: 127927.471 $\pm$ 0.050 χ^2 /NDF: 3767047216.9/18
 Left In: 128945.014 $\pm$ 0.053 χ^2 /NDF: 110408599.5/15
 Left: 128958.985 $\pm$ 0.037 χ^2 /NDF: 232346687.6/32
 Right: 127971.691 $\pm$ 0.037 χ^2 /NDF: 8085261759.1/32
 In: 128493.314 $\pm$ 0.038 χ^2 /NDF: 4572490121.5/32
 Out: 128435.063 $\pm$ 0.036 χ^2 /NDF: 4097821065.6/32
 All: 128462.570 $\pm$ 0.026 χ^2 /NDF: 867153945.0/64

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.980 $\pm$ 0.039 χ^2 /NDF: 1485519.5/16

Left Out: 182.131 $\pm$ 0.037 χ^2 /NDF: 443595.7/16

Right Out: 124.566 $\pm$ 0.036 χ^2 /NDF: 1531273.9/18

Left In: 186.582 $\pm$ 0.038 χ^2 /NDF: 408145.5/15

Left: 184.286 $\pm$ 0.026 χ^2 /NDF: 858888.8/32

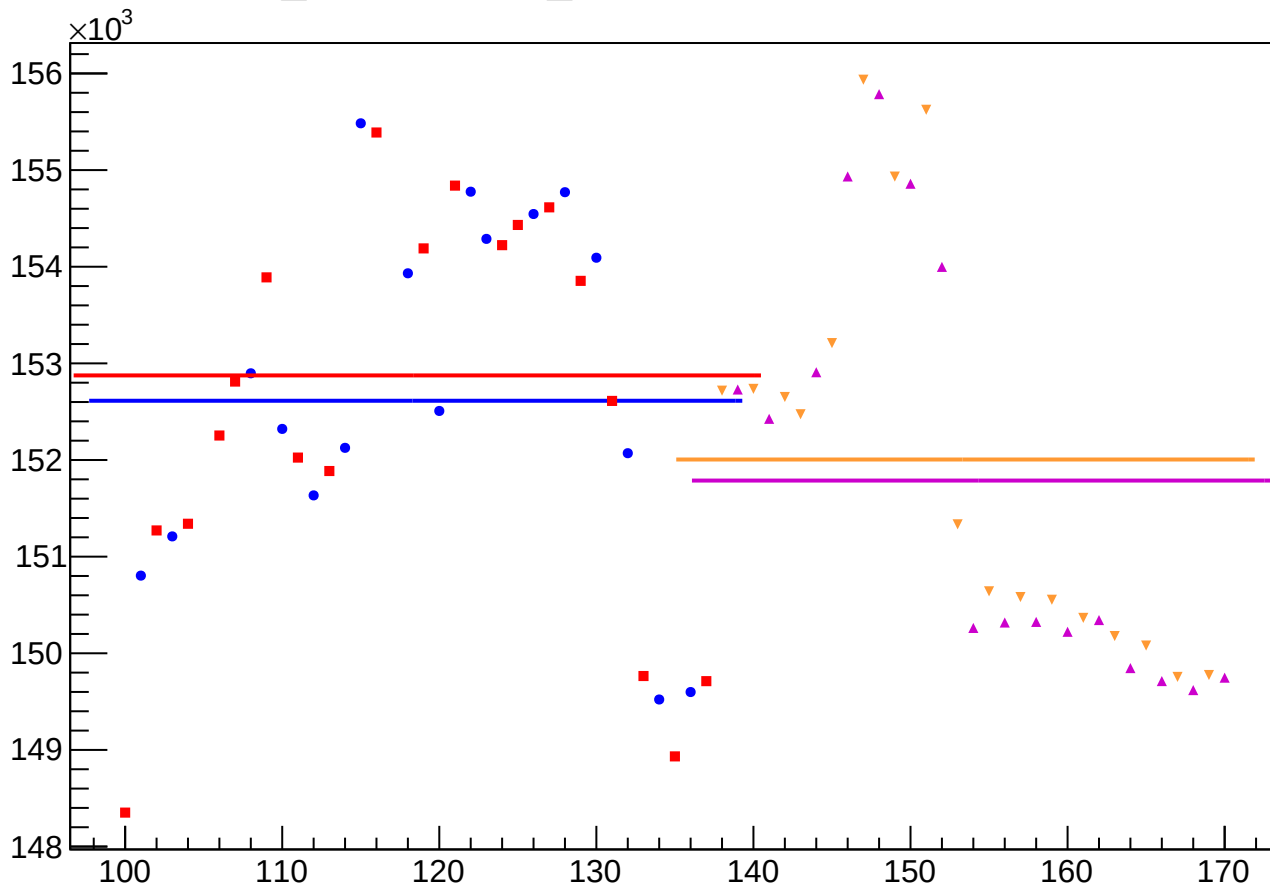
Right: 127.058 $\pm$ 0.026 χ^2 /NDF: 3027426.7/35

In: 158.836 $\pm$ 0.027 χ^2 /NDF: 2991940.2/32

Out: 152.537 $\pm$ 0.026 χ^2 /NDF: 3243976.3/35

All: 155.512 $\pm$ 0.019 χ^2 /NDF: 6264643.8/68

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152613.122 $\pm$ 0.072 χ^2 /NDF: 623356098.4/16

Left Out: 152005.223 $\pm$ 0.056 χ^2 /NDF: 1085604068.7/16

Right Out: 152875.313 $\pm$ 0.066 χ^2 /NDF: 716358700.9/18

Left In: 151787.355 $\pm$ 0.058 χ^2 /NDF: 1156486433.9/15

Left: 151898.226 $\pm$ 0.040 χ^2 /NDF: 2249394407.4/3

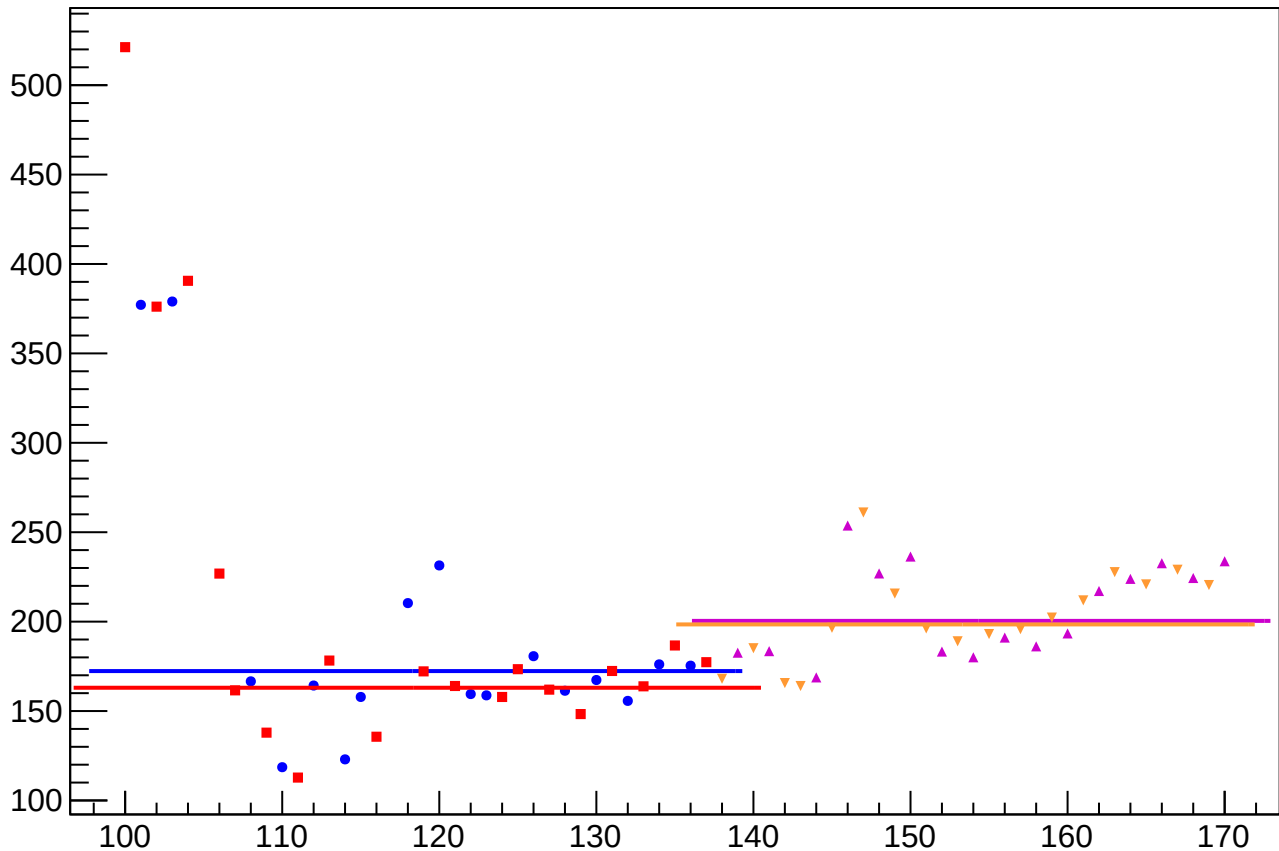
Right: 152755.689 $\pm$ 0.049 χ^2 /NDF: 1346872378.3/3

In: 152107.531 $\pm$ 0.045 χ^2 /NDF: 1859786513.3/32

Out: 152371.890 $\pm$ 0.043 χ^2 /NDF: 1901922684.6/3

All: 152245.797 $\pm$ 0.031 χ^2 /NDF: 377976049

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 172.351+/-0.051 χ^2/NDF : 921911.1/16

Left Out: 198.443+/-0.040 χ^2/NDF : 338210.2/16

Right Out: 163.029+/-0.047 χ^2/NDF : 1032736.0/18

Left In: 200.417+/-0.041 χ^2/NDF : 361878.4/15

Left: 199.412+/-0.028 χ^2/NDF : 701287.3/32

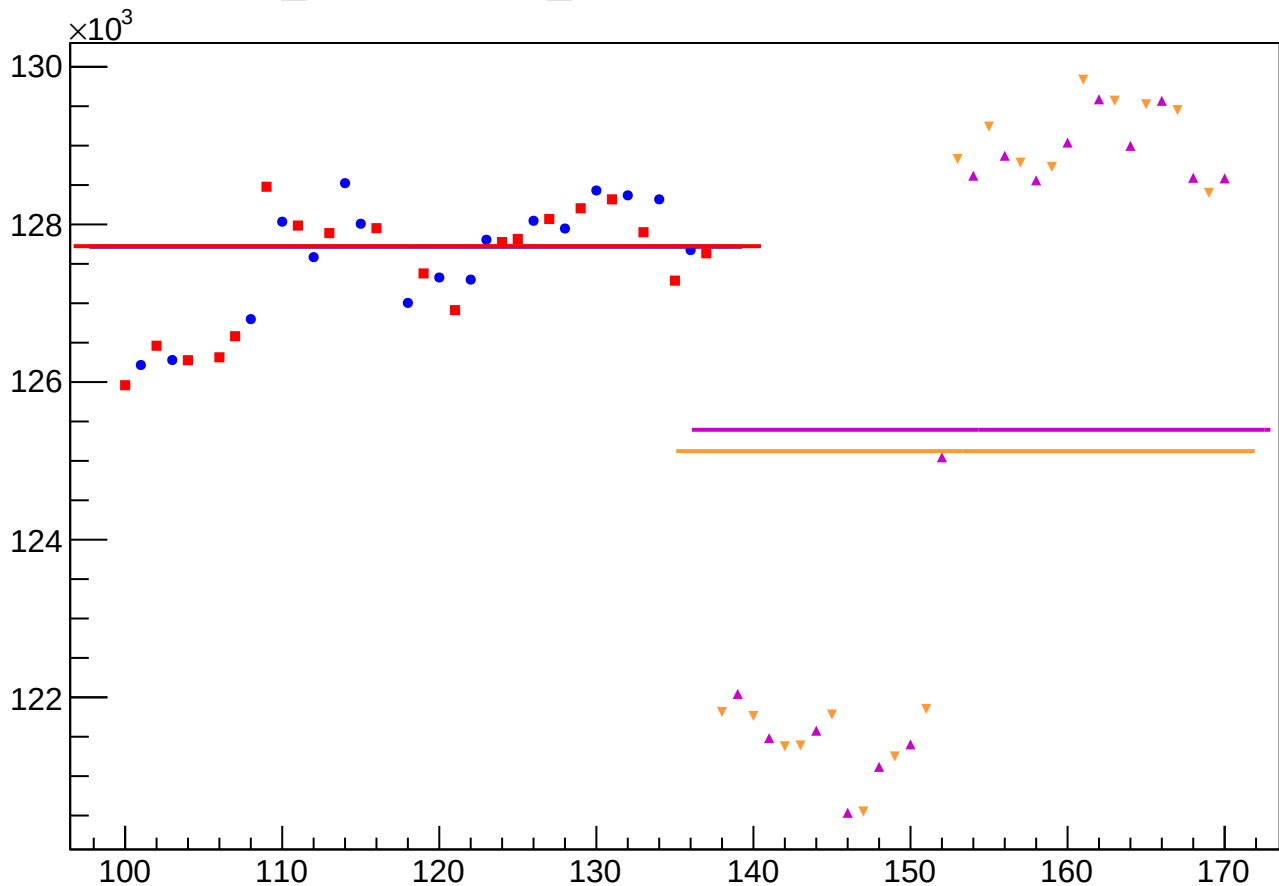
Right: 167.282+/-0.035 χ^2/NDF : 1972741.3/35

In: 189.535+/-0.032 χ^2/NDF : 1468483.2/32

Out: 183.519+/-0.030 χ^2/NDF : 1702132.1/35

All: 186.389+/-0.022 χ^2/NDF : 3189308.1/68

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127717.888 $\pm$ 0.058 χ^2 /NDF: 95177660.2/16

Left Out: 125123.941 $\pm$ 0.050 χ^2 /NDF: 5739760162.4/16

Right Out: 127724.519 $\pm$ 0.055 χ^2 /NDF: 112550604.4/18

Left In: 125394.684 $\pm$ 0.050 χ^2 /NDF: 5150936624.0/15

Left: 125260.429 $\pm$ 0.035 χ^2 /NDF: 10905453870.6

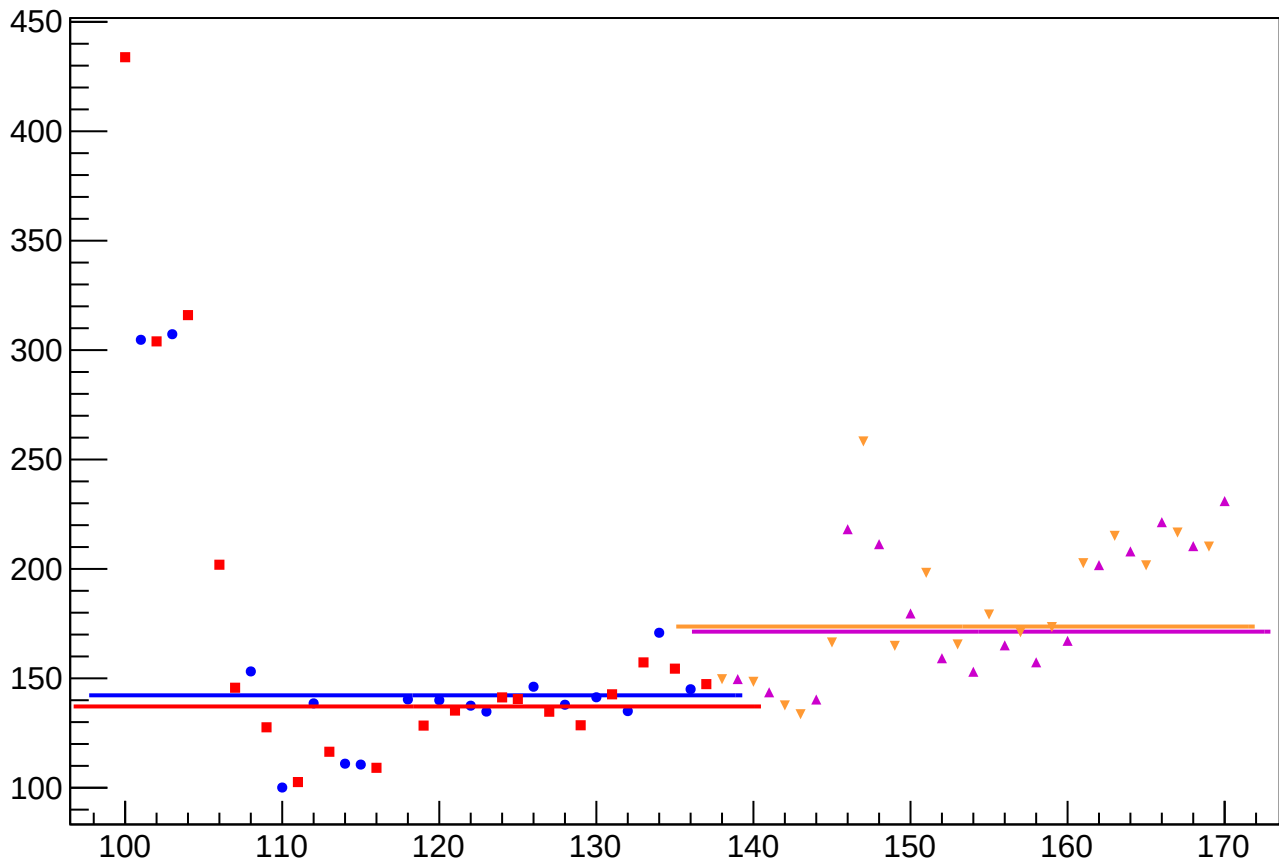
Right: 127721.424 $\pm$ 0.040 χ^2 /NDF: 207735167.4/3

In: 126371.152 $\pm$ 0.038 χ^2 /NDF: 6167121283.4/32

Out: 126312.987 $\pm$ 0.037 χ^2 /NDF: 7087172991.7/3

All: 126341.353 $\pm$ 0.026 χ^2 /NDF: 132555082

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 142.240+/-0.041 χ^2/NDF : 836415.1/16

Left Out: 173.677+/-0.035 χ^2/NDF : 675825.2/16

Right Out: 137.151+/-0.039 χ^2/NDF : 957730.8/18

Left In: 171.336+/-0.035 χ^2/NDF : 641655.9/15

Left: 172.497+/-0.025 χ^2/NDF : 1319687.9/32

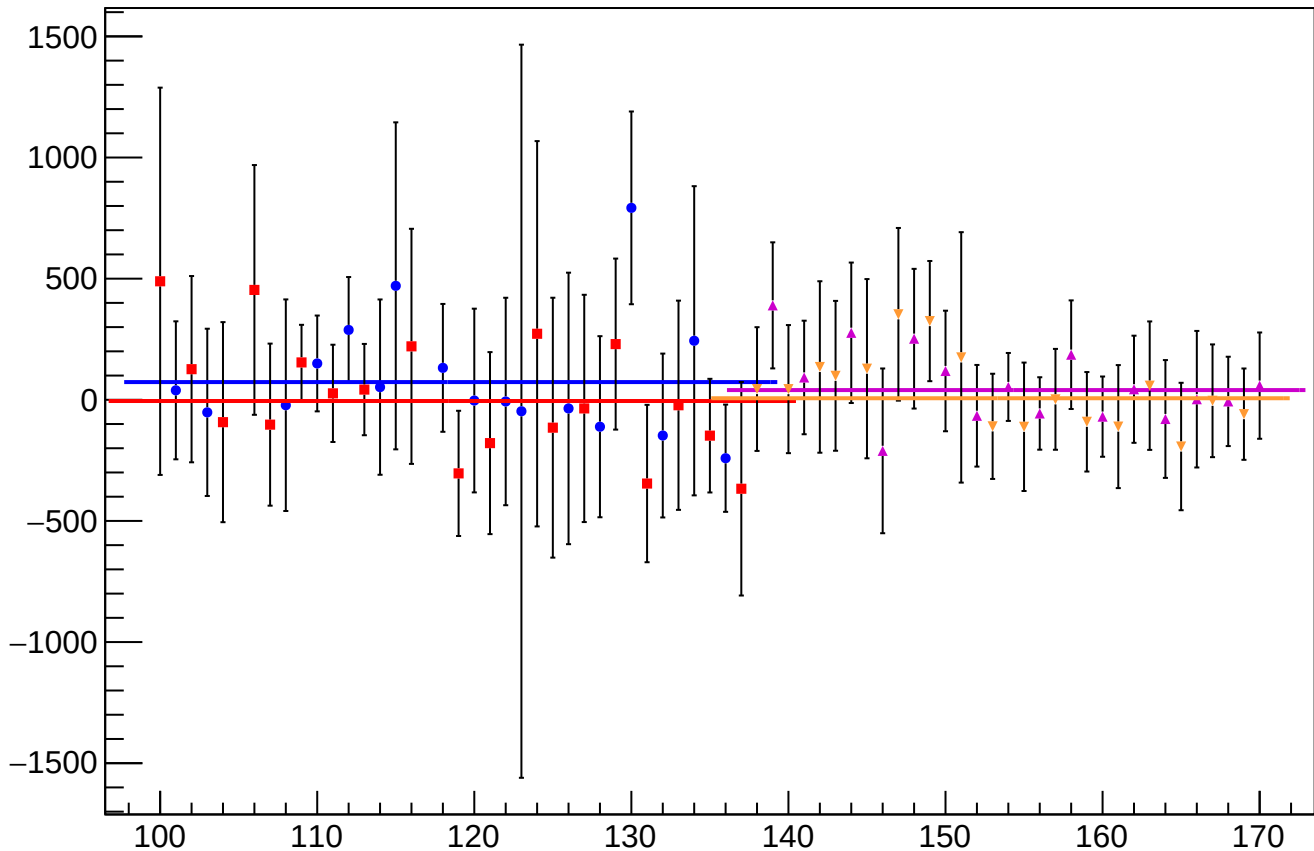
Right: 139.526+/-0.028 χ^2/NDF : 1802277.5/35

In: 159.107+/-0.027 χ^2/NDF : 1766999.0/32

Out: 156.977+/-0.026 χ^2/NDF : 2120769.7/35

All: 158.016+/-0.019 χ^2/NDF : 3891024.9/68

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 73.109+/-79.604 χ^2/NDF : 7.9/16

Left Out: 6.393+/-62.461 χ^2/NDF : 4.7/16

Right Out: -5.021+/-70.098 χ^2/NDF : 7.1/18

Left In: 40.103+/-52.962 χ^2/NDF : 5.6/15

Left: 26.004+/-40.395 χ^2/NDF : 10.5/32

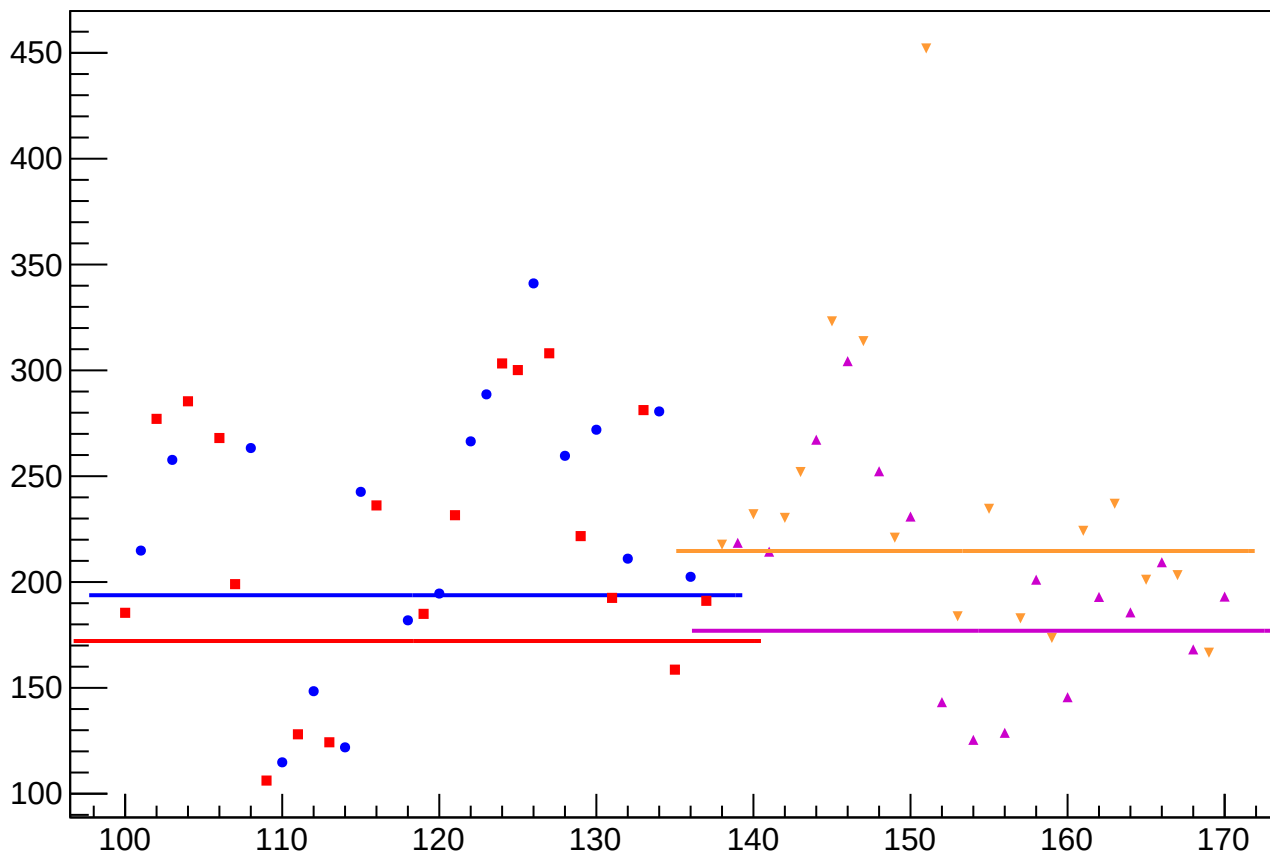
Right: 29.103+/-52.608 χ^2/NDF : 15.5/35

In: 50.230+/-44.094 χ^2/NDF : 13.6/32

Out: 1.341+/-46.634 χ^2/NDF : 11.8/35

All: 27.153+/-32.040 χ^2/NDF : 26.0/68

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.773+/-0.056 χ^2/NDF : 1017081.7/16

Left Out: 214.665+/-0.044 χ^2/NDF : 1127634.5/16

Right Out: 172.142+/-0.050 χ^2/NDF : 1580035.1/18

Left In: 176.979+/-0.037 χ^2/NDF : 1486593.9/15

Left: 192.741+/-0.029 χ^2/NDF : 3037773.9/32

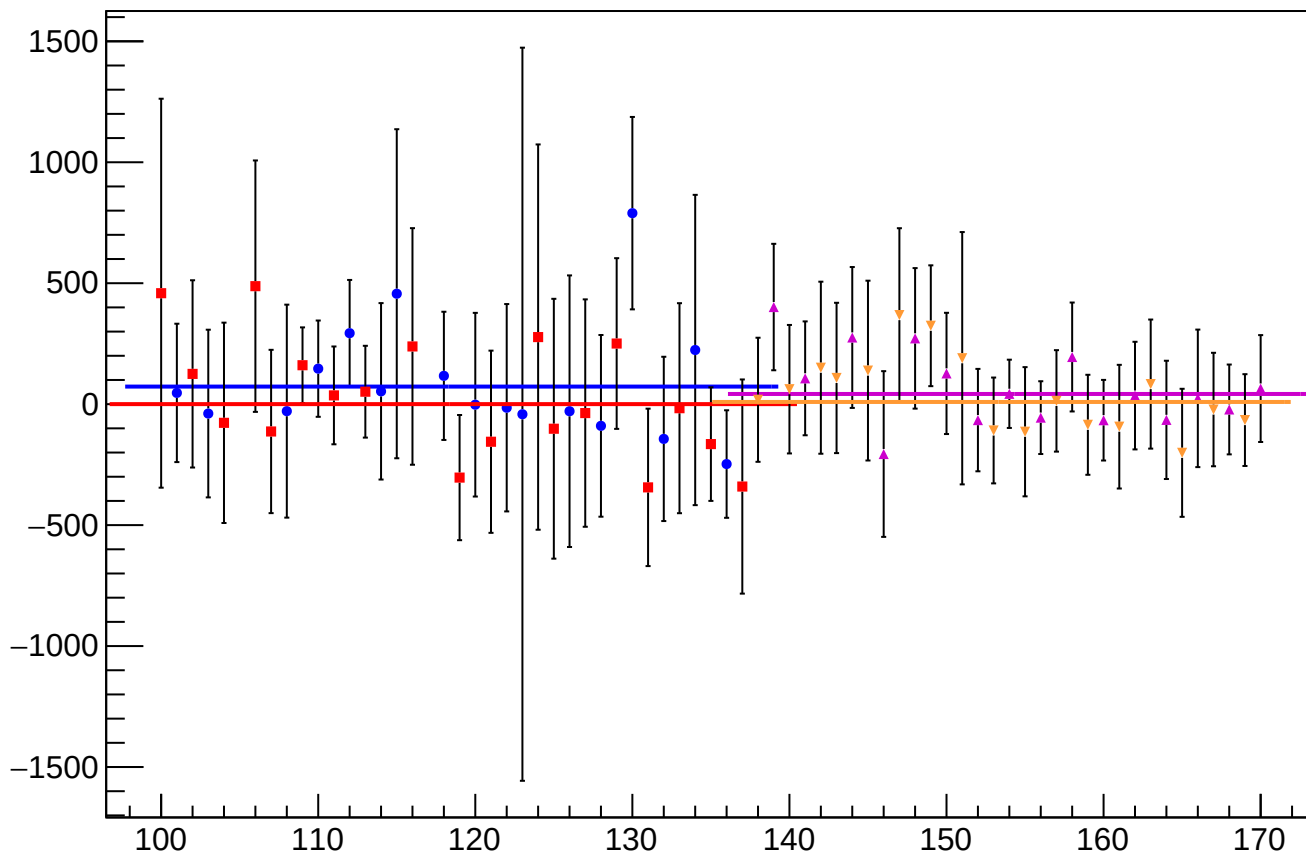
Right: 181.589+/-0.037 χ^2/NDF : 2680292.0/35

In: 182.132+/-0.031 χ^2/NDF : 2565375.4/32

Out: 195.845+/-0.033 χ^2/NDF : 3117916.0/35

All: 188.605+/-0.023 χ^2/NDF : 5774602.6/68

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 72.675+/-79.992 χ^2/NDF : 7.8/16

Left Out: 9.099+/-62.870 χ^2/NDF : 4.9/16

Right Out: 0.181+/-70.467 χ^2/NDF : 7.3/18

Left In: 42.133+/-53.293 χ^2/NDF : 5.8/15

Left: 28.321+/-40.653 χ^2/NDF : 10.8/32

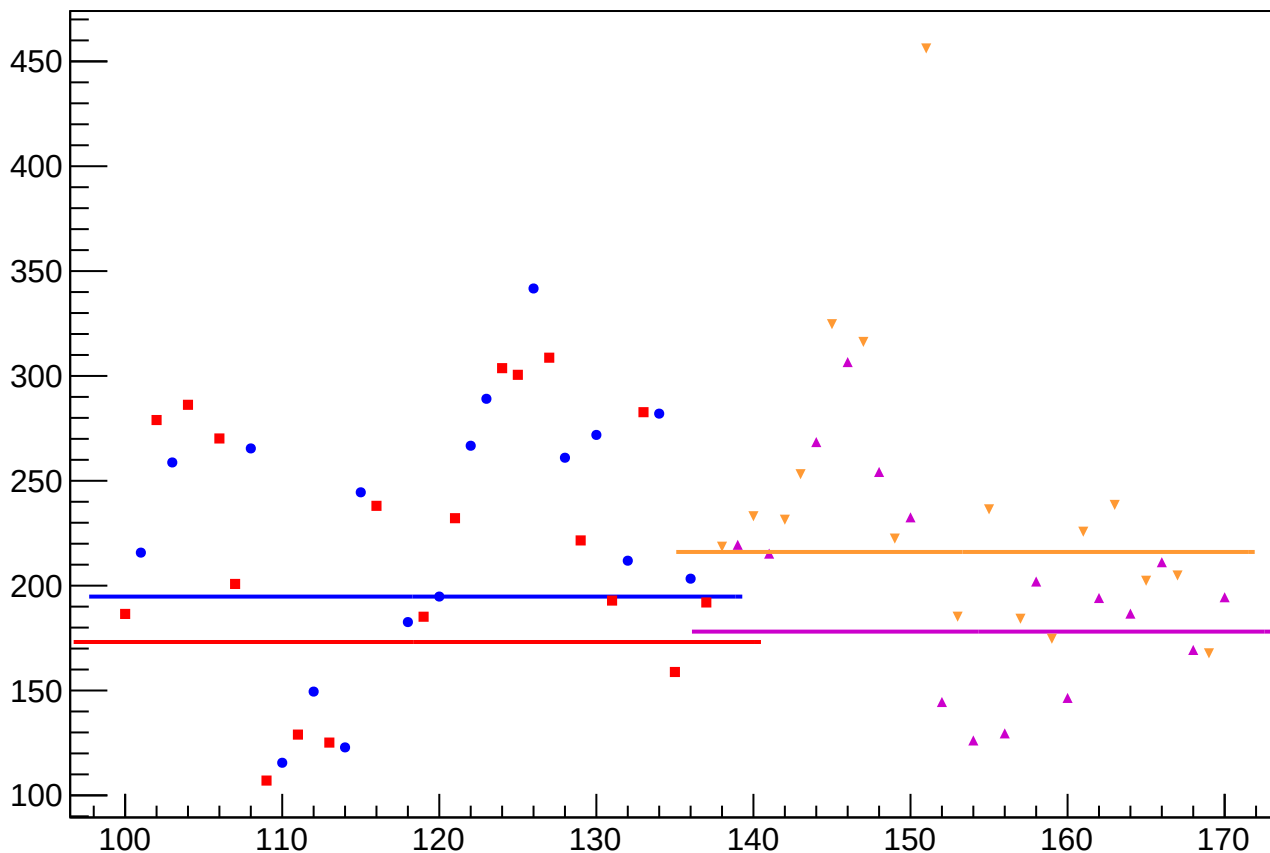
Right: 31.857+/-52.876 χ^2/NDF : 15.5/35

In: 51.522+/-44.351 χ^2/NDF : 13.6/32

Out: 5.147+/-46.912 χ^2/NDF : 12.2/35

All: 29.635+/-32.229 χ^2/NDF : 26.3/68

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.782 $\pm$ 0.057 χ^2 /NDF: 1008292.8/16

Left Out: 216.066 $\pm$ 0.044 χ^2 /NDF:1126626.3/16

Right Out: 173.131 $\pm$ 0.050 χ^2 /NDF: 1567556.0/18

Left In: 178.084 $\pm$ 0.038 χ^2 /NDF:1485285.3/15

Left: 193.965 $\pm$ 0.029 χ^2 /NDF: 3036664.1/32

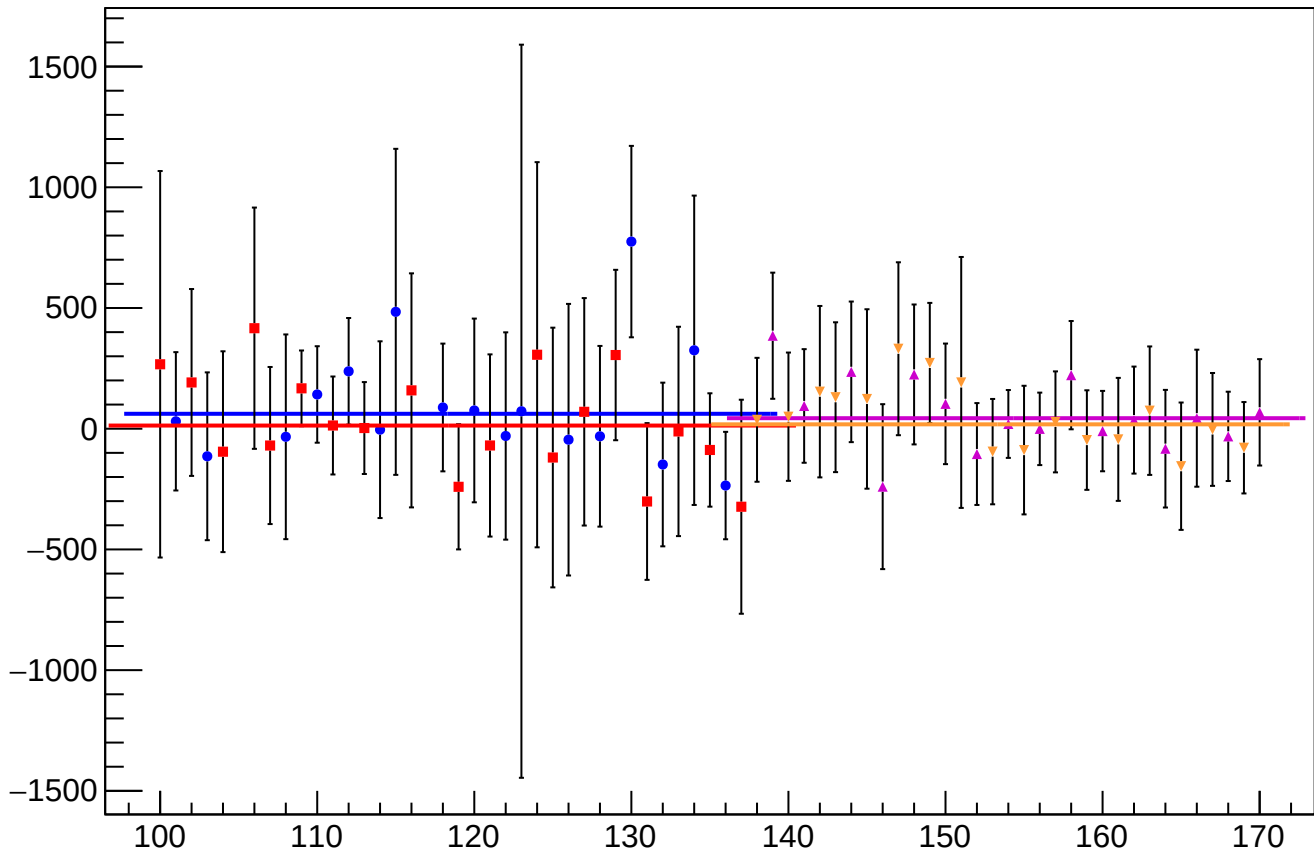
Right: 182.592 $\pm$ 0.037 χ^2 /NDF: 2658346.9/35

In: 183.217 $\pm$ 0.031 χ^2 /NDF:2553937.4/32

Out: 197.037 $\pm$ 0.033 χ^2 /NDF:3107584.8/35

All: 189.740 $\pm$ 0.023 χ^2 /NDF: 5753166.8/68

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 61.814 $\pm$ 79.986 χ^2 /NDF: 7.3/16

Left Out: 18.155 $\pm$ 62.724 χ^2 /NDF: 3.6/16

Right Out: 13.101 $\pm$ 70.391 χ^2 /NDF: 5.8/18

Left In: 43.559 $\pm$ 53.156 χ^2 /NDF: 5.1/15

Left: 32.940 $\pm$ 40.553 χ^2 /NDF: 8.9/32

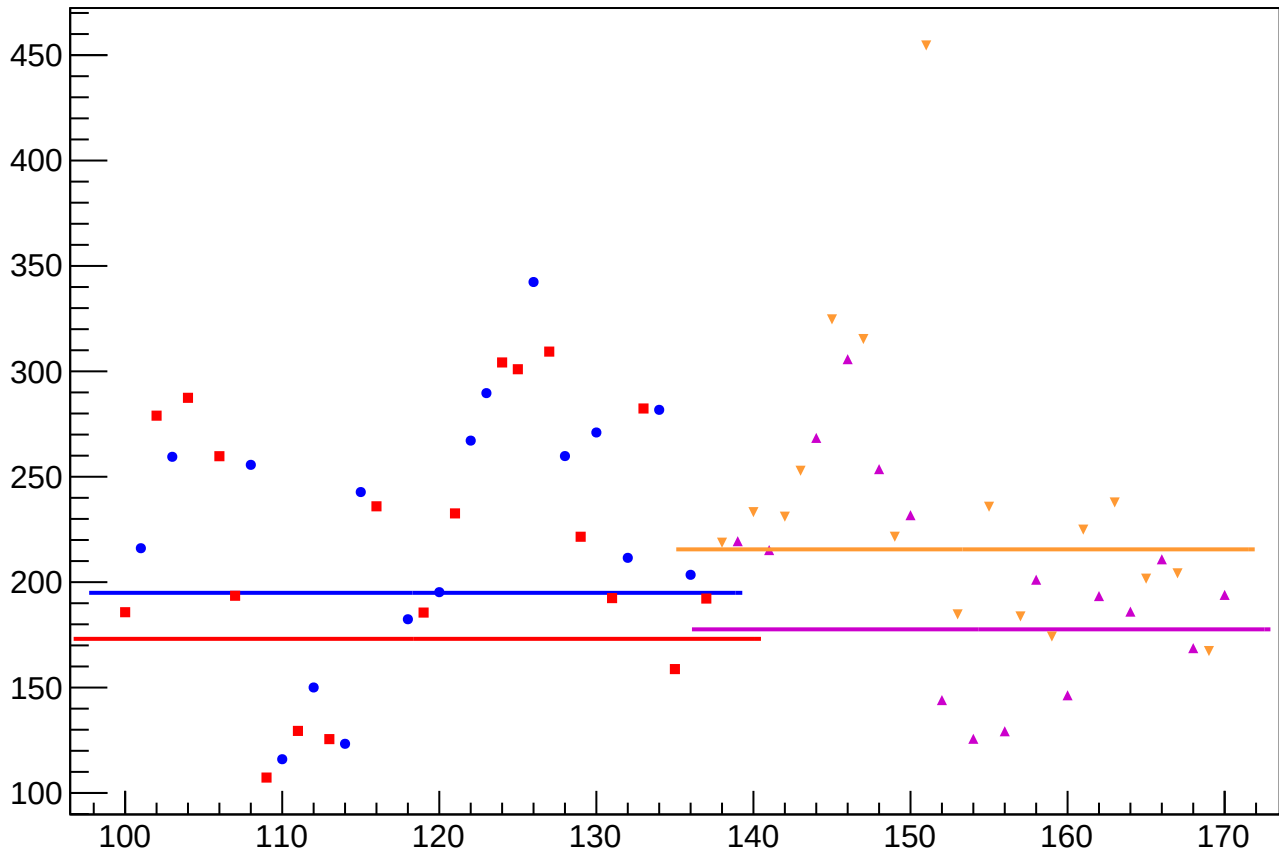
Right: 34.362 $\pm$ 52.842 χ^2 /NDF: 13.2/35

In: 49.151 $\pm$ 44.272 χ^2 /NDF: 12.4/32

Out: 15.918 $\pm$ 46.829 χ^2 /NDF: 9.4/35

All: 33.467 $\pm$ 32.171 χ^2 /NDF: 22.1/68

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.939 $\pm$ 0.057 χ^2 /NDF: 986629.1/16

Left Out: 215.556 $\pm$ 0.044 χ^2 /NDF:1128689.8/16

Right Out: 173.109 $\pm$ 0.050 χ^2 /NDF: 1544723.9/18

Left In: 177.615 $\pm$ 0.038 χ^2 /NDF:1489103.6/15

Left: 193.474 $\pm$ 0.029 χ^2 /NDF: 3043703.7/32

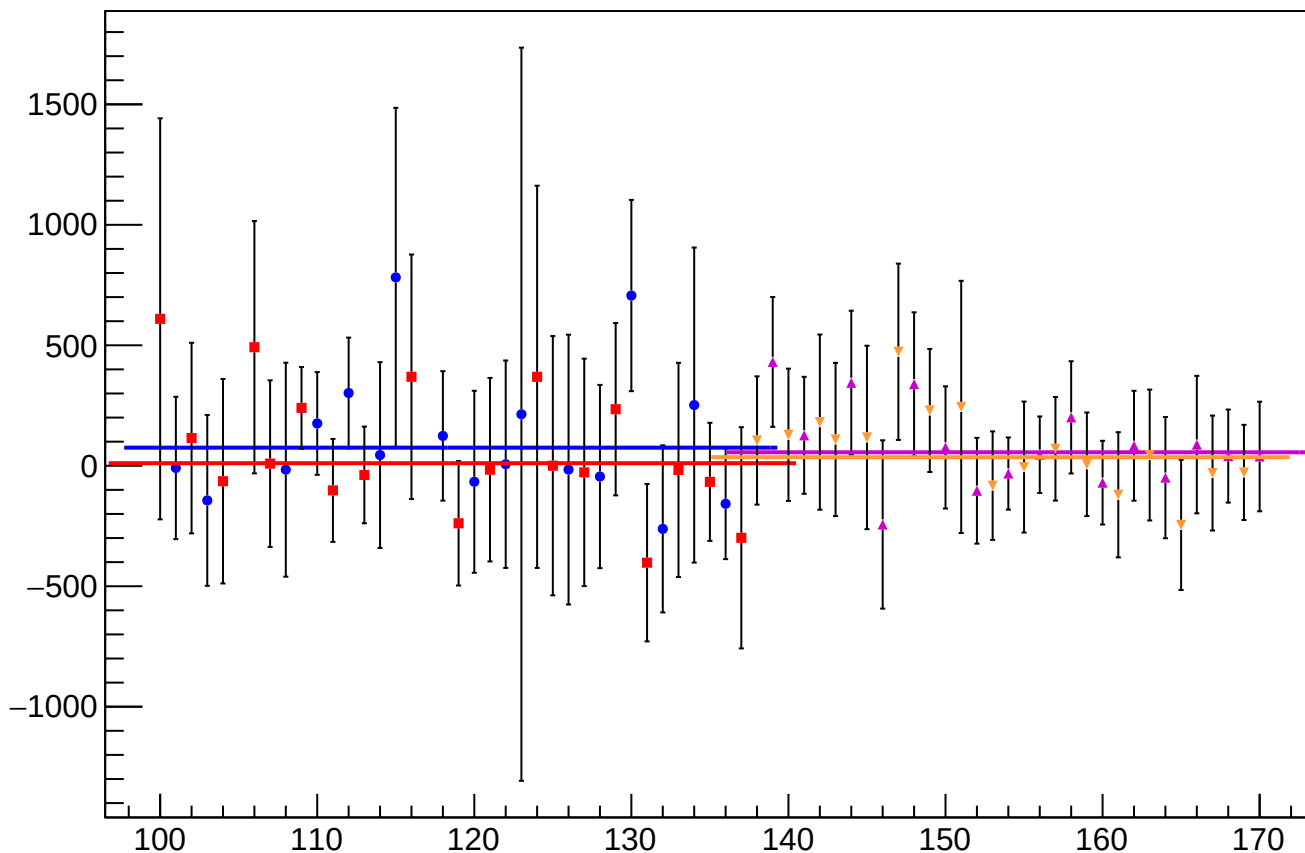
Right: 182.637 $\pm$ 0.037 χ^2 /NDF: 2615306.2/35

In: 182.922 $\pm$ 0.031 χ^2 /NDF:2540812.5/32

Out: 196.769 $\pm$ 0.033 χ^2 /NDF:3078798.9/35

All: 189.457 $\pm$ 0.023 χ^2 /NDF: 5711952.7/68

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 75.207 $\pm$ 82.504 χ^2 /NDF: 7.6/16

Left Out: 35.731 $\pm$ 64.546 χ^2 /NDF:4.6/16

Right Out: 10.674 $\pm$ 73.338 χ^2 /NDF: 7.8/18

Left In: 55.910 $\pm$ 55.297 χ^2 /NDF:6.6/15

Left: 47.369 $\pm$ 41.993 χ^2 /NDF: 11.2/32

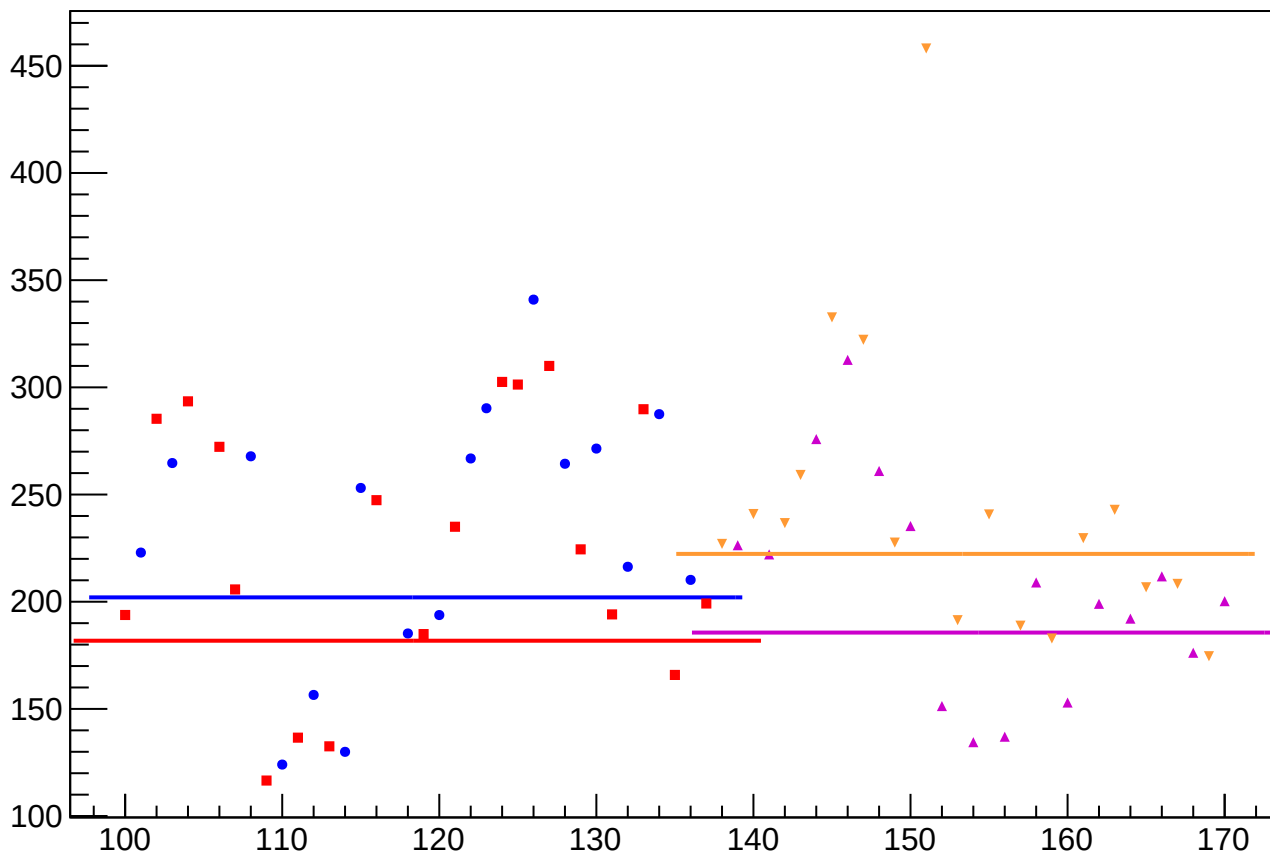
Right: 39.157 $\pm$ 54.813 χ^2 /NDF: 15.8/35

In: 61.891 $\pm$ 45.934 χ^2 /NDF:14.3/32

Out: 24.794 $\pm$ 48.453 χ^2 /NDF:12.5/35

All: 44.332 $\pm$ 33.335 χ^2 /NDF: 27.1/68

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 202.029 $\pm$ 0.058 χ^2 /NDF: 881608.7/16

Left Out: 222.311 $\pm$ 0.046 χ^2 /NDF:1069798.1/16

Right Out: 181.811 $\pm$ 0.052 χ^2 /NDF: 1377537.2/18

Left In: 185.611 $\pm$ 0.039 χ^2 /NDF:1341477.3/15

Left: 201.145 $\pm$ 0.030 χ^2 /NDF: 2784168.3/32

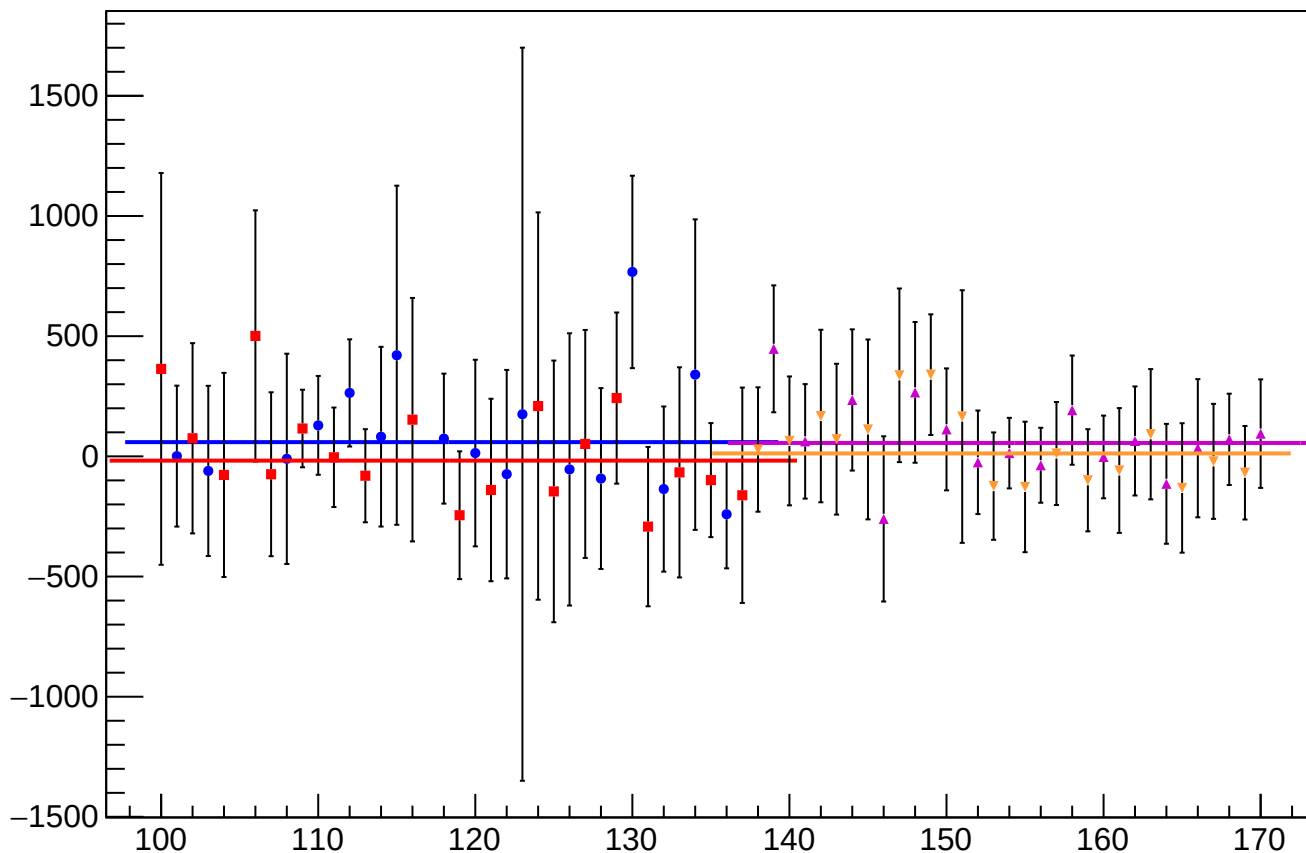
Right: 190.735 $\pm$ 0.039 χ^2 /NDF: 2326235.8/35

In: 190.700 $\pm$ 0.032 χ^2 /NDF:2277737.0/32

Out: 204.633 $\pm$ 0.034 χ^2 /NDF:2791026.0/35

All: 197.295 $\pm$ 0.024 χ^2 /NDF: 5155861.2/68

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 59.175 $\pm$ 81.417 χ^2 /NDF: 7.1/16

Left Out: 12.187 $\pm$ 63.921 χ^2 /NDF:4.5/16

Right Out: -17.727 $\pm$ 71.900 χ^2 /NDF: 4.7/18

Left In: 55.683 $\pm$ 54.515 χ^2 /NDF:5.5/15

Left: 37.367 $\pm$ 41.479 χ^2 /NDF: 10.3/32

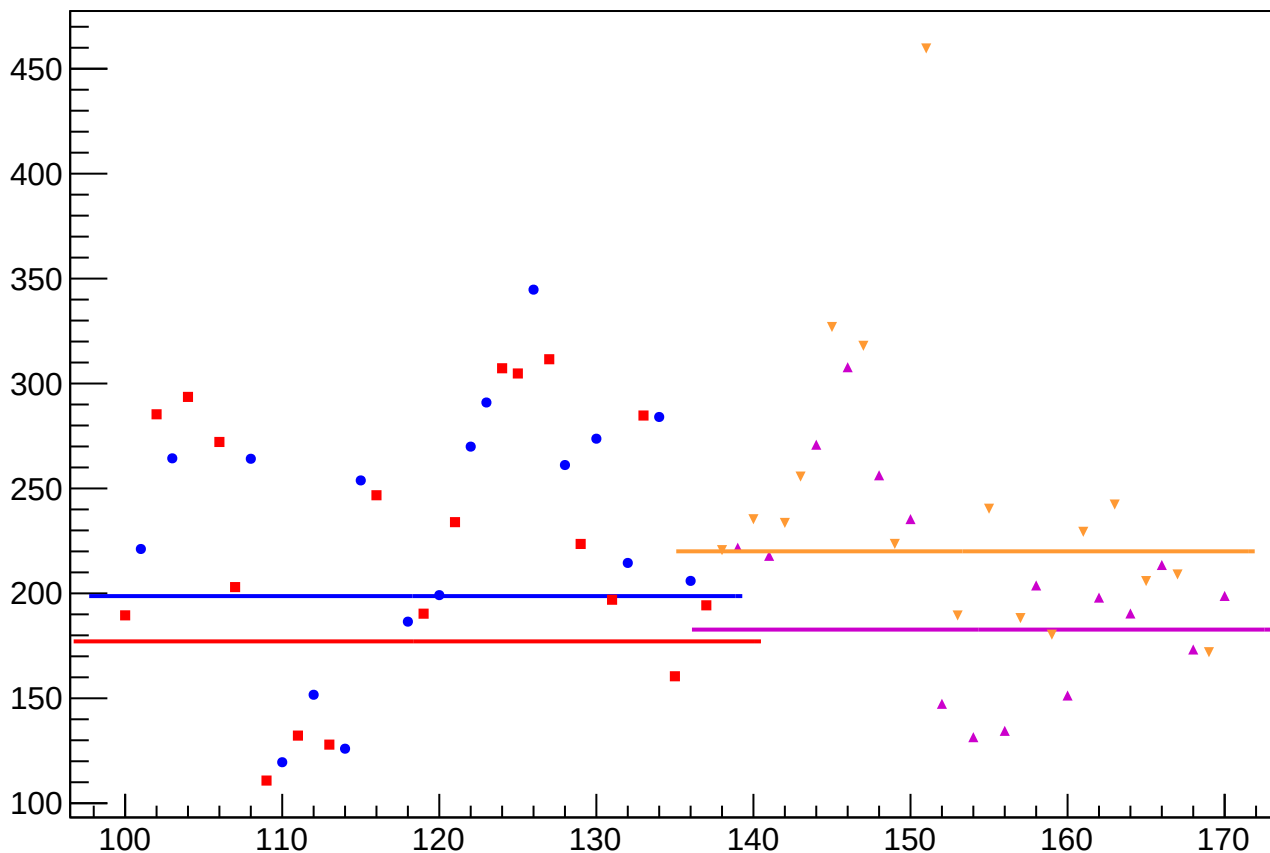
Right: 15.968 $\pm$ 53.893 χ^2 /NDF: 12.3/35

In: 56.764 $\pm$ 45.298 χ^2 /NDF:12.7/32

Out: -1.019 $\pm$ 47.772 χ^2 /NDF:9.2/35

All: 29.407 $\pm$ 32.870 χ^2 /NDF: 22.7/68

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.704+/-0.058 χ^2/NDF : 963394.4/16

Left Out: 220.035+/-0.045 χ^2/NDF :1072330.0/16

Right Out: 177.125+/-0.051 χ^2/NDF : 1524889.9/18

Left In: 182.738+/-0.039 χ^2/NDF :1366409.8/15

Left: 198.443+/-0.029 χ^2/NDF : 2832934.2/32

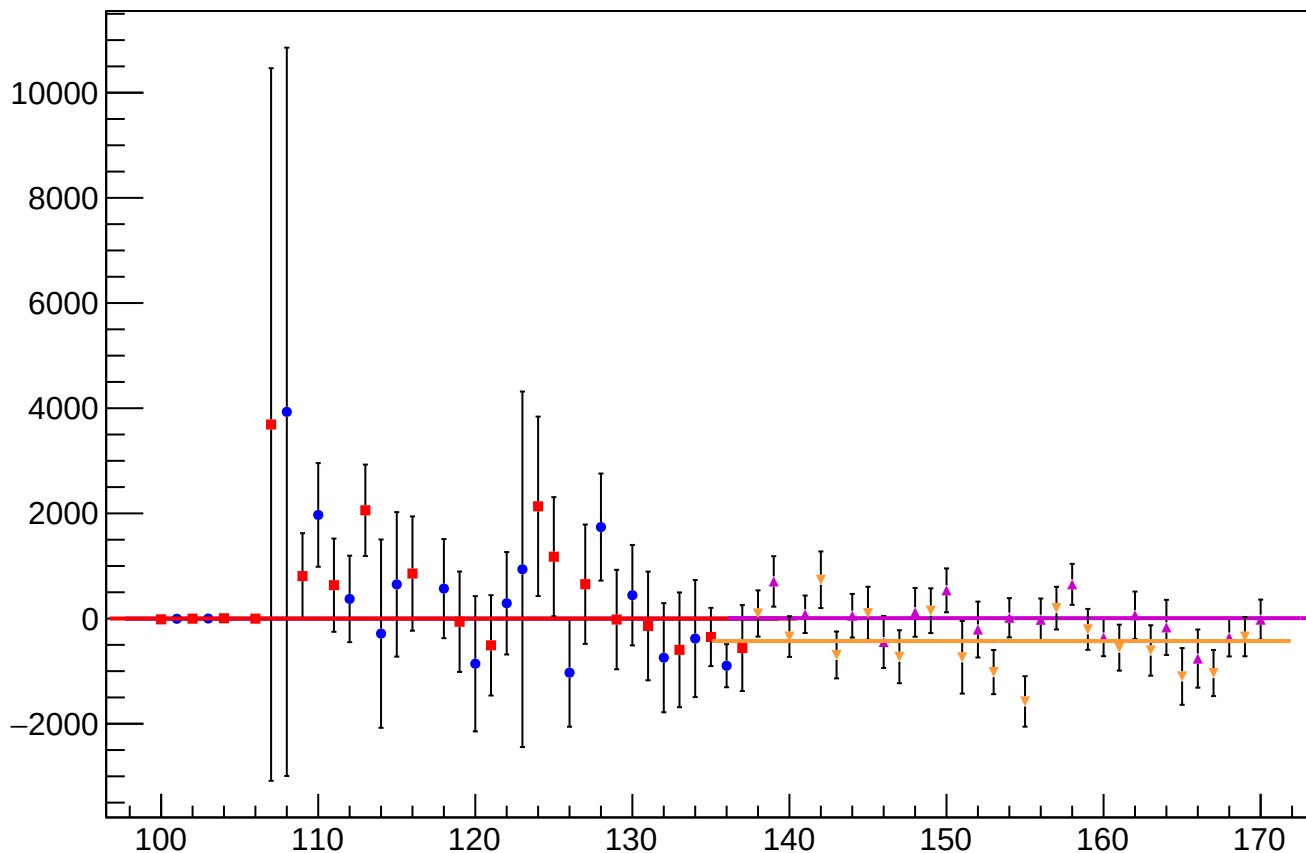
Right: 186.580+/-0.038 χ^2/NDF : 2567217.8/35

In: 187.680+/-0.032 χ^2/NDF :2382903.6/32

Out: 201.092+/-0.034 χ^2/NDF :2995102.2/35

All: 194.030+/-0.023 χ^2/NDF : 5461012.9/68

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.529 ± 2.251 χ^2/NDF : 16.6/16

Left Out: -426.916 ± 109.124 χ^2/NDF : 24.2/16

Right Out: 0.731 ± 2.111 χ^2/NDF : 18.4/18

Left In: 8.104 ± 105.189 χ^2/NDF : 11.8/15

Left: -201.423 ± 75.733 χ^2/NDF : 44.2/32

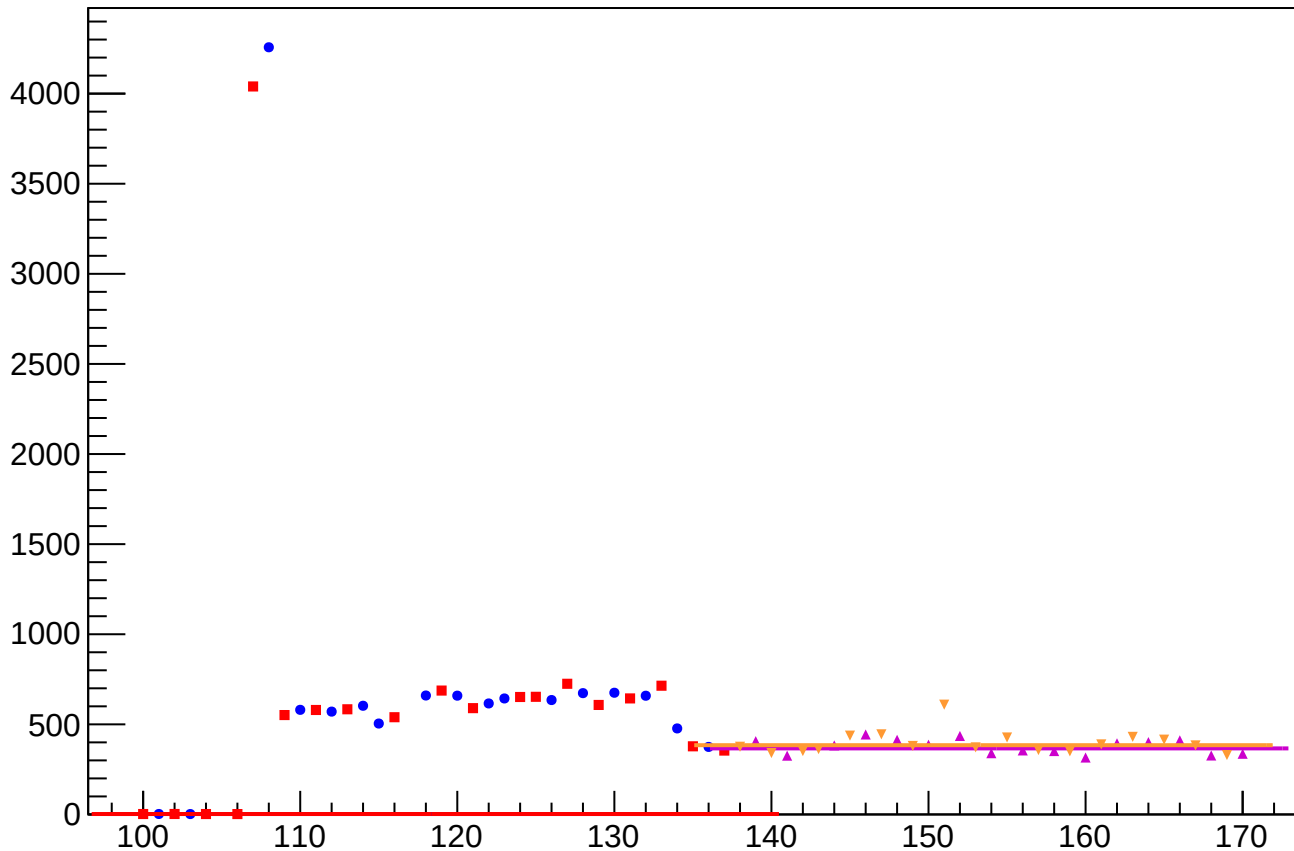
Right: -0.326 ± 1.540 χ^2/NDF : 35.6/35

In: -1.525 ± 2.251 χ^2/NDF : 28.4/32

Out: 0.572 ± 2.111 χ^2/NDF : 57.9/35

All: -0.409 ± 1.540 χ^2/NDF : 86.8/68

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.456+/-0.002 χ^2/NDF : 10706347.4/16

Left Out: 384.343+/-0.077 χ^2/NDF :411693.3/16

Right Out: 2.437+/-0.001 χ^2/NDF : 11140185.1/18

Left In: 366.527+/-0.074 χ^2/NDF :272690.4/15

Left: 375.108+/-0.054 χ^2/NDF : 712019.5/32

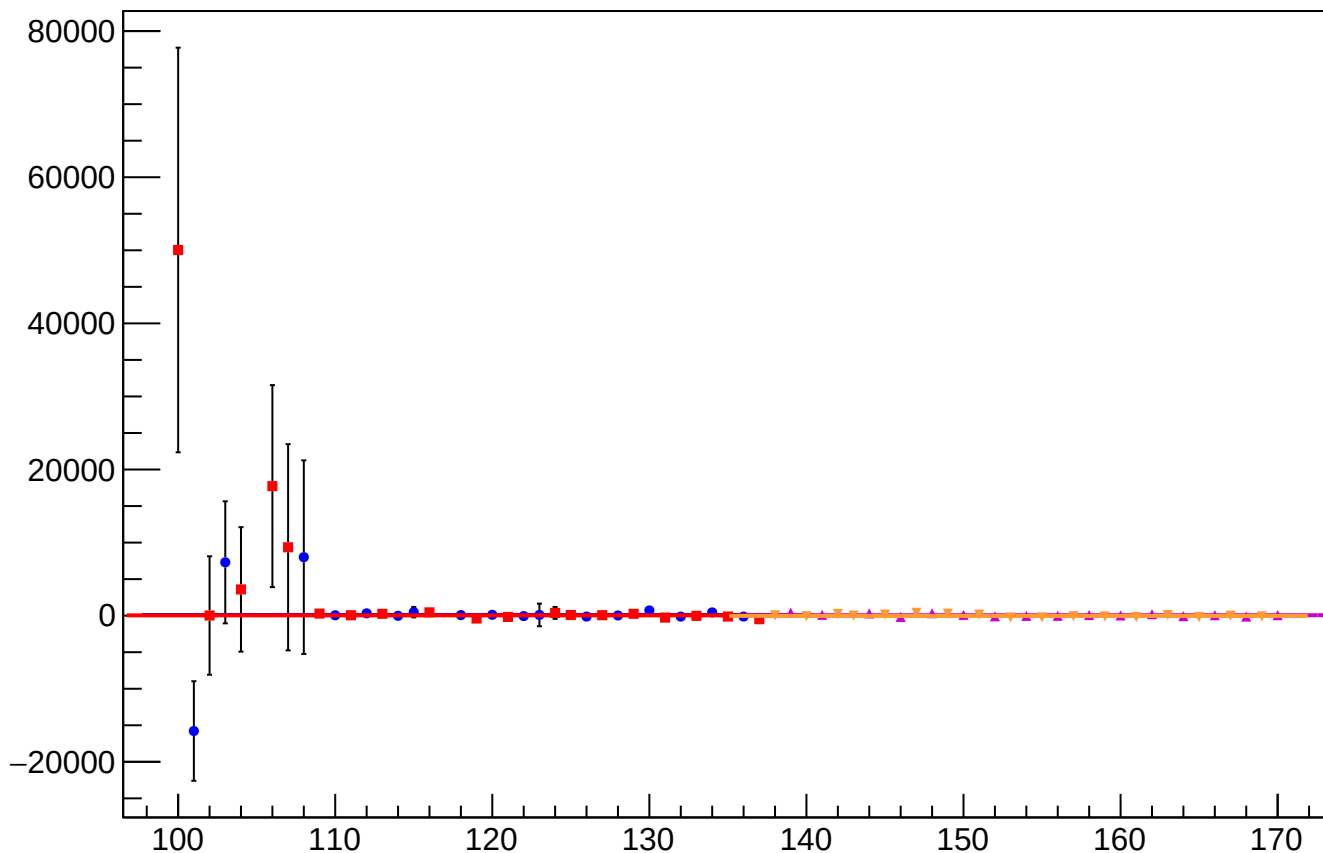
Right: 2.446+/-0.001 χ^2/NDF : 21846612.0/35

In: 2.623+/-0.002 χ^2/NDF :34926492.0/32

Out: 2.580+/-0.001 χ^2/NDF :36039424.6/35

All: 2.600+/-0.001 χ^2/NDF : 70966310.2/68

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 95.353+/-91.708 χ^2/NDF : 12.0/16

Left Out: -36.168+/-66.461 χ^2/NDF : 5.9/16

Right Out: 42.617+/-84.547 χ^2/NDF : 14.0/18

Left In: 58.443+/-57.845 χ^2/NDF : 6.2/15

Left: 17.664+/-43.633 χ^2/NDF : 13.3/32

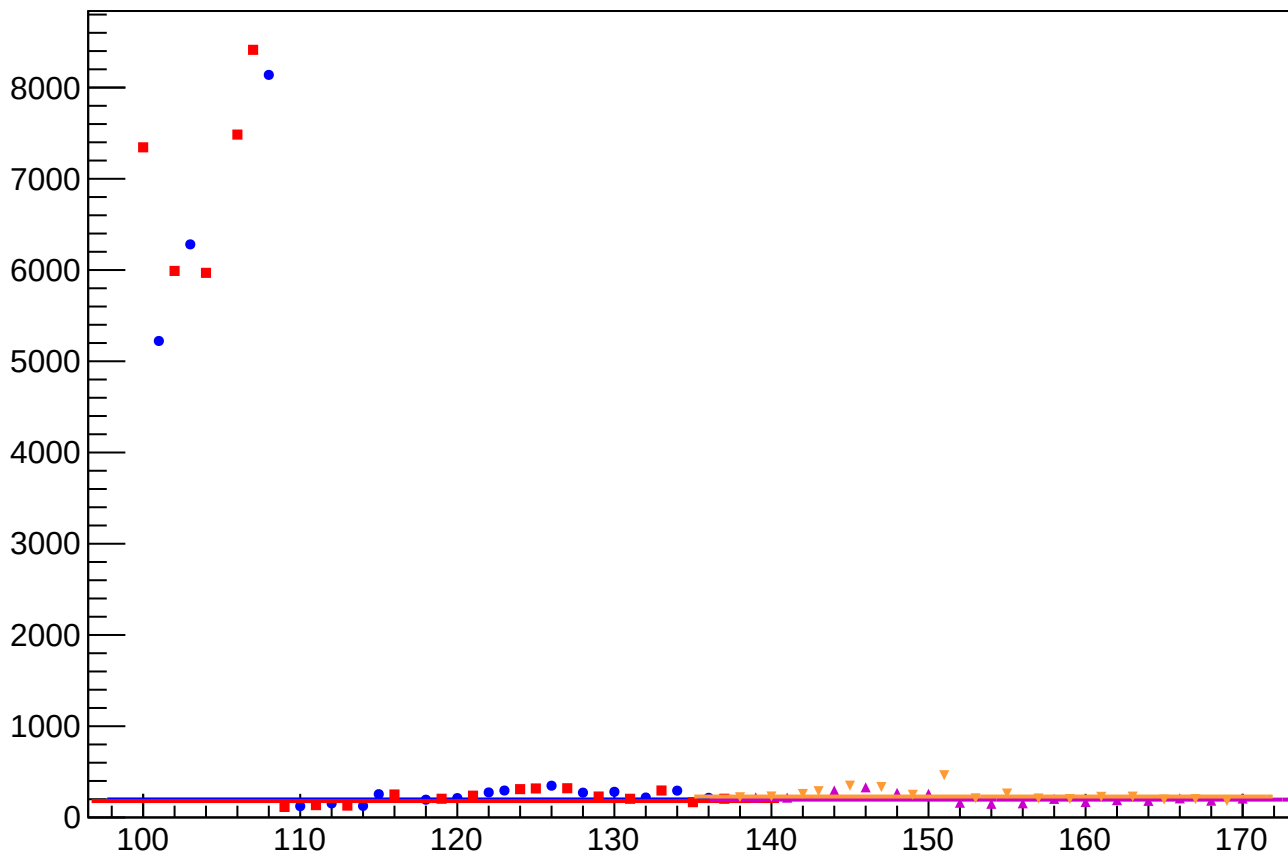
Right: 66.846+/-62.161 χ^2/NDF : 26.2/35

In: 68.948+/-48.925 χ^2/NDF : 18.3/32

Out: -6.077+/-52.250 χ^2/NDF : 20.5/35

All: 33.898+/-35.713 χ^2/NDF : 39.9/68

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.422+/-0.065 χ^2/NDF : 3695848.3/16

Left Out: 229.236+/-0.047 χ^2/NDF :1057002.5/16

Right Out: 179.983+/-0.060 χ^2/NDF : 4321404.4/18

Left In: 195.466+/-0.041 χ^2/NDF :1076697.0/15

Left: 210.021+/-0.031 χ^2/NDF : 2427499.3/32

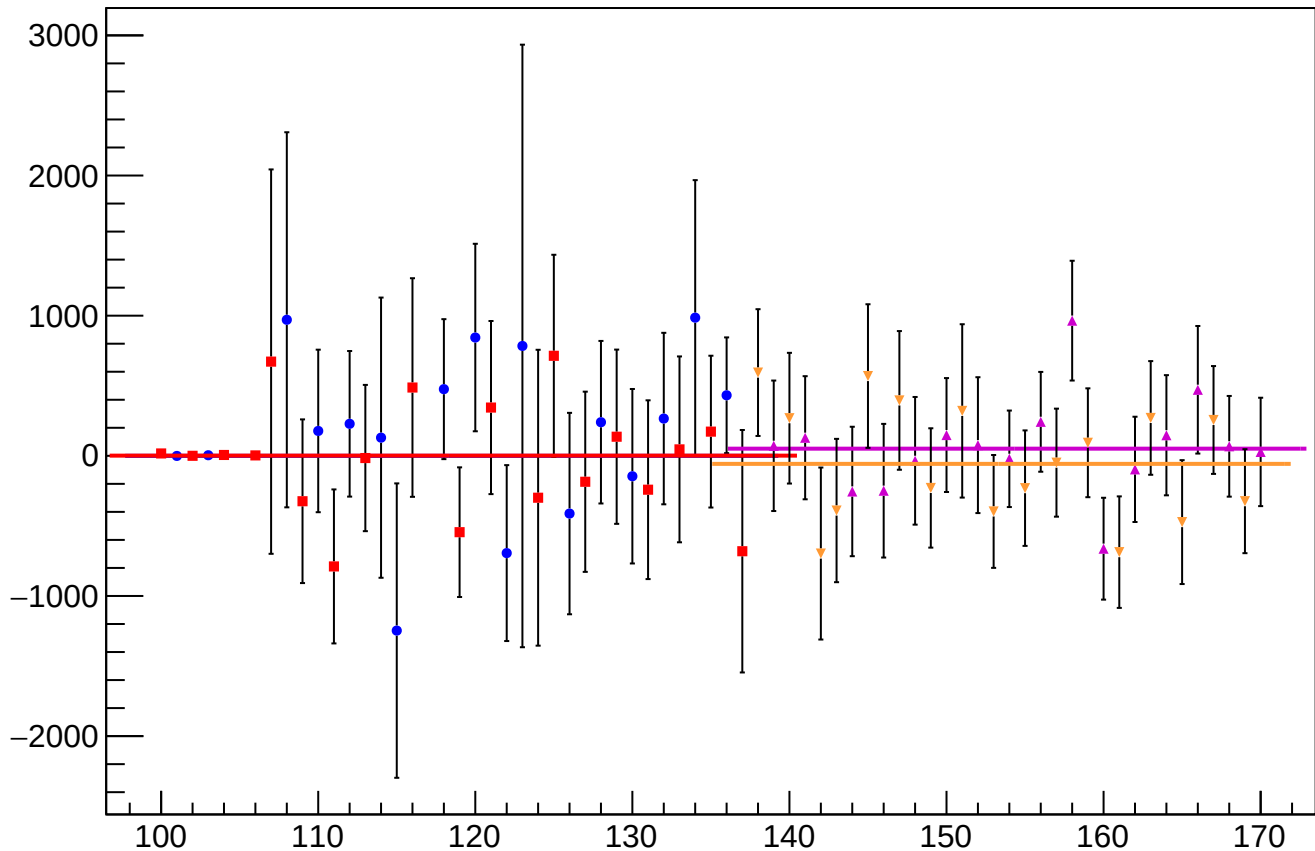
Right: 187.995+/-0.044 χ^2/NDF : 8056346.9/35

In: 196.023+/-0.035 χ^2/NDF :4773196.3/32

Out: 210.425+/-0.037 χ^2/NDF :5797914.1/35

All: 202.751+/-0.025 χ^2/NDF : 10652072.8/68

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.139 ± 1.737 χ^2/NDF : 9.8/16

Left Out: -57.434 ± 106.029 χ^2/NDF : 13.2/16

Right Out: 1.324 ± 1.623 χ^2/NDF : 9.5/18

Left In: 51.048 ± 102.500 χ^2/NDF : 10.8/15

Left: -1.358 ± 73.695 χ^2/NDF : 24.5/32

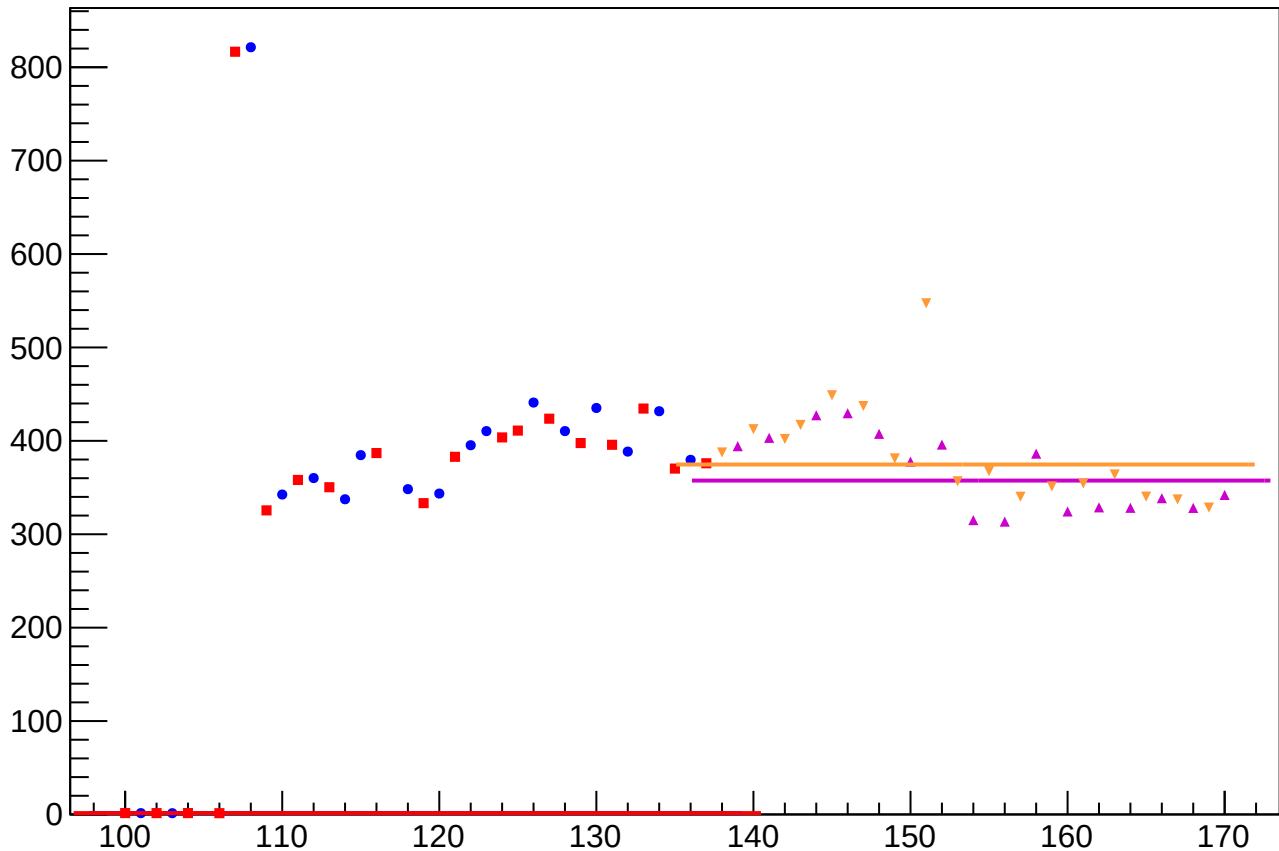
Right: 0.642 ± 1.186 χ^2/NDF : 19.7/35

In: -0.124 ± 1.736 χ^2/NDF : 20.8/32

Out: 1.310 ± 1.622 χ^2/NDF : 23.0/35

All: 0.641 ± 1.185 χ^2/NDF : 44.2/68

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.452 $\pm$ 0.001 χ^2 /NDF: 10815892.9/16

Left Out: 374.661 $\pm$ 0.075 χ^2 /NDF: 359030.4/16

Right Out: 1.451 $\pm$ 0.001 χ^2 /NDF: 10873552.2/18

Left In: 357.478 $\pm$ 0.072 χ^2 /NDF: 294770.2/15

Left: 365.779 $\pm$ 0.052 χ^2 /NDF: 680952.5/32

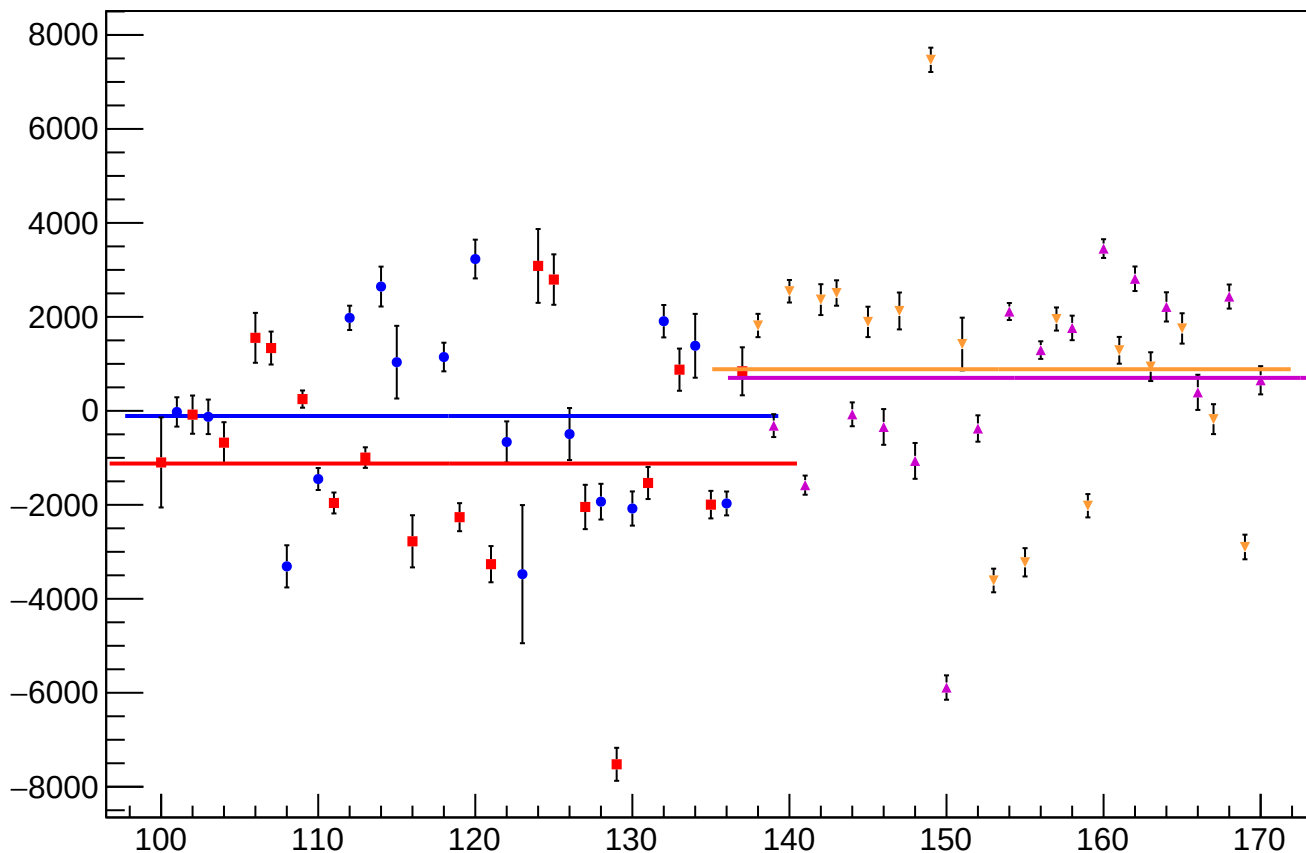
Right: 1.452 $\pm$ 0.001 χ^2 /NDF: 21689445.7/35

In: 1.554 $\pm$ 0.001 χ^2 /NDF: 35233054.0/32

Out: 1.538 $\pm$ 0.001 χ^2 /NDF: 36005869.7/35

All: 1.546 $\pm$ 0.001 χ^2 /NDF: 71239014.0/68

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -109.225 $\pm$ 87.961 χ^2 /NDF: 428.3/16

Left Out: 886.050 $\pm$ 69.448 χ^2 /NDF:1677.2/16

Right Out: -1121.203 $\pm$ 78.396 χ^2 /NDF: 670.1/18

Left In: 701.724 $\pm$ 62.602 χ^2 /NDF:1254.5/15

Left: 784.357 $\pm$ 46.499 χ^2 /NDF: 2935.6/32

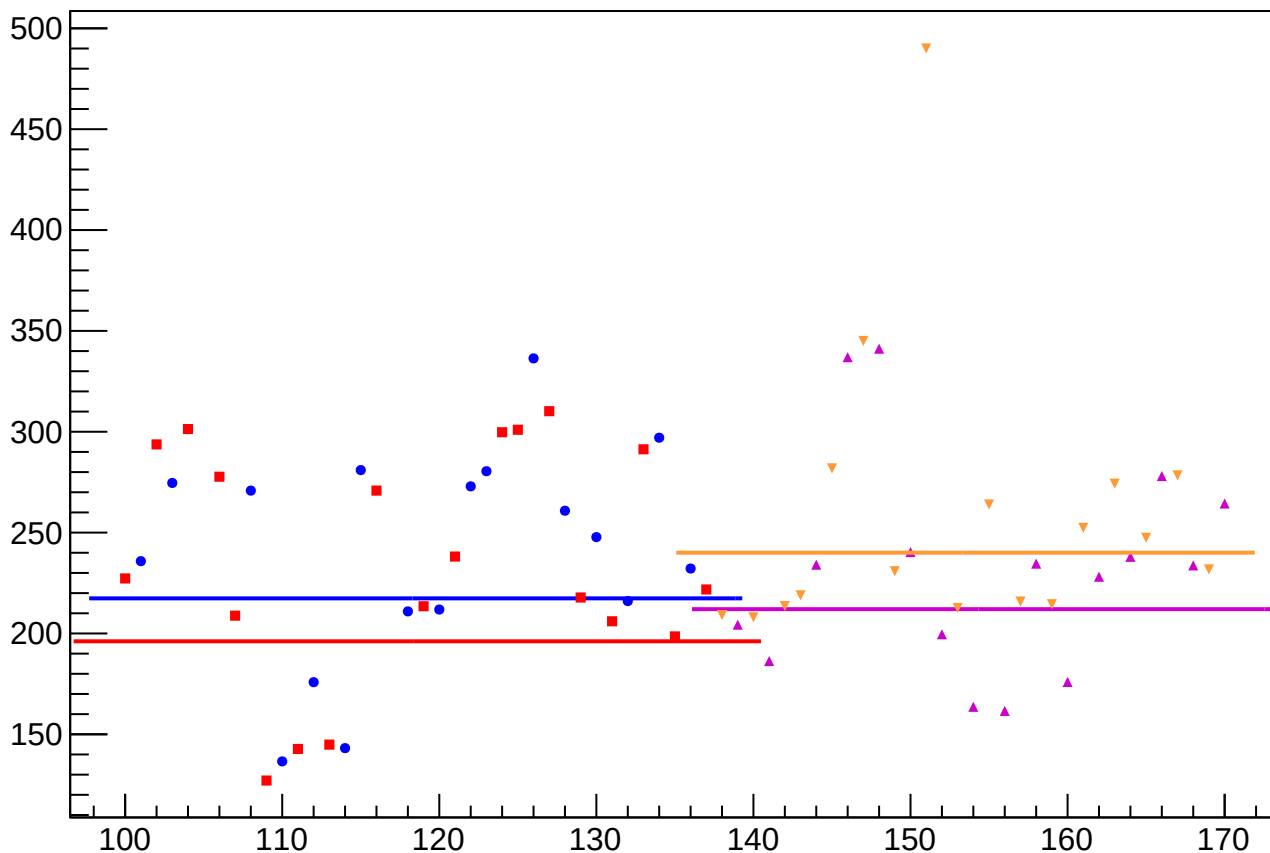
Right: -673.210 $\pm$ 58.525 χ^2 /NDF: 1172.2/35

In: 429.067 $\pm$ 51.004 χ^2 /NDF:1739.3/32

Out: 3.472 $\pm$ 51.984 χ^2 /NDF:2714.6/35

All: 220.320 $\pm$ 36.407 χ^2 /NDF: 4488.0/68

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 217.403 ± 0.062 $\chi^2/\text{NDF}: 652632.9/16$

Left Out: 240.056 ± 0.049 $\chi^2/\text{NDF}: 805782.0/16$

Right Out: 196.112 ± 0.055 $\chi^2/\text{NDF}: 1190862.3/18$

Left In: 212.044 ± 0.044 $\chi^2/\text{NDF}: 1049569.0/15$

Left: 224.602 ± 0.033 $\chi^2/\text{NDF}: 2034866.3/32$

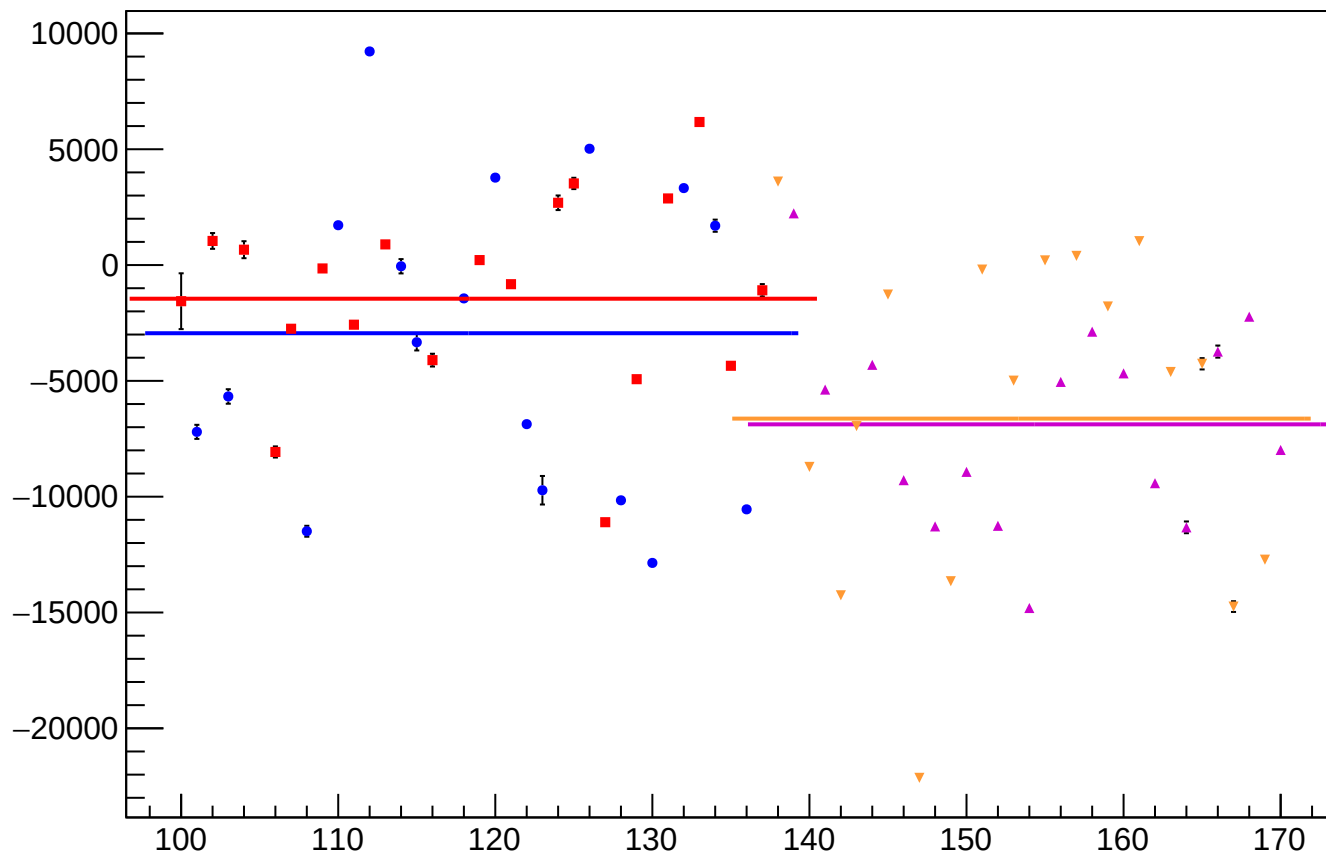
Right: 205.537 ± 0.041 $\chi^2/\text{NDF}: 1908796.2/35$

In: 213.846 ± 0.036 $\chi^2/\text{NDF}: 1707129.2/32$

Out: 220.734 ± 0.037 $\chi^2/\text{NDF}: 2348739.3/35$

All: 217.224 ± 0.026 $\chi^2/\text{NDF}: 4073761.2/68$

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2943.123+/-48.612 χ^2/NDF : 20909.8/16

Left Out: -6629.486+/-38.910 χ^2/NDF : 36370.8/16

Right Out: -1453.116+/-46.404 χ^2/NDF : 7996.0/18

Left In: -6877.047+/-39.679 χ^2/NDF : 11944.8/15

Left: -6750.844+/-27.782 χ^2/NDF : 48335.5/32

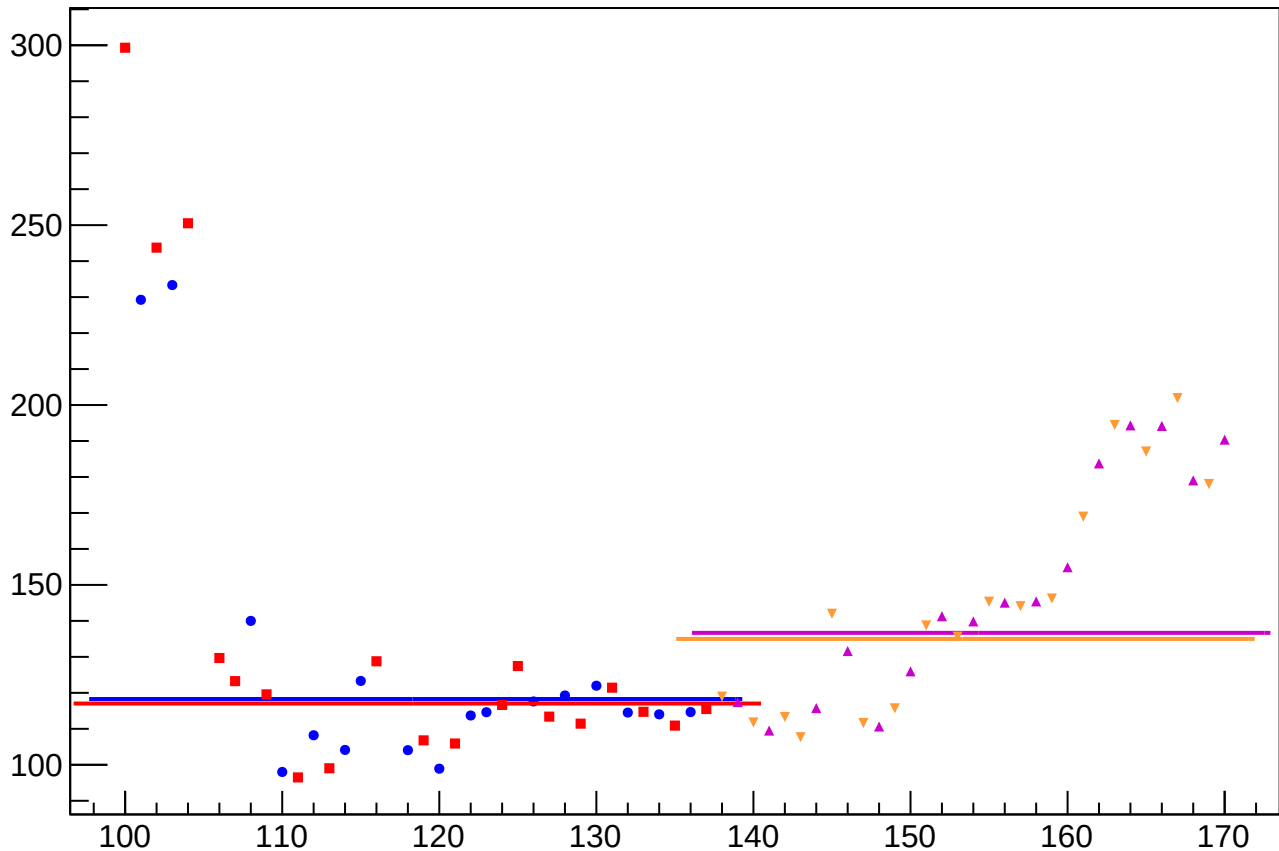
Right: -2163.502+/-33.566 χ^2/NDF : 29397.3/35

In: -5304.059+/-30.739 χ^2/NDF : 36784.9/32

Out: -4492.465+/-29.816 χ^2/NDF : 51673.2/35

All: -4885.883+/-21.402 χ^2/NDF : 88817.2/68

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 118.286+/-0.034 χ^2/NDF : 636918.0/16

Left Out: 134.991+/-0.028 χ^2/NDF : 906517.3/16

Right Out: 117.031+/-0.033 χ^2/NDF : 690861.5/18

Left In: 136.680+/-0.028 χ^2/NDF : 845408.3/15

Left: 135.819+/-0.020 χ^2/NDF : 1753771.8/32

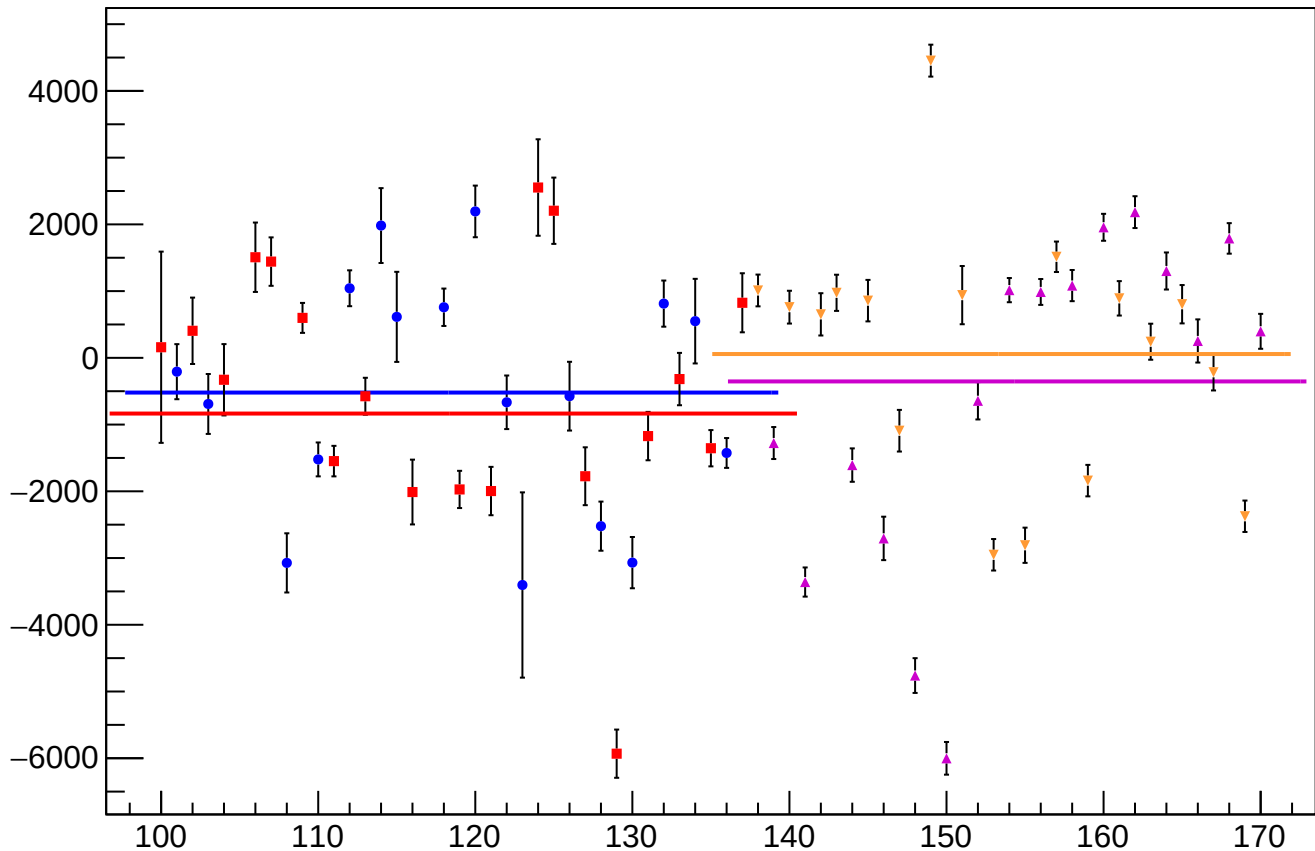
Right: 117.629+/-0.024 χ^2/NDF : 1328476.0/35

In: 129.325+/-0.022 χ^2/NDF : 1654183.2/32

Out: 127.577+/-0.021 χ^2/NDF : 1773291.1/35

All: 128.424+/-0.015 χ^2/NDF : 3430806.9/68

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -520.267 $\pm$ 89.241 χ^2/NDF : 288.1/16

Left Out: 57.170 $\pm$ 64.159 χ^2/NDF :912.2/16

Right Out: -834.834 $\pm$ 82.273 χ^2/NDF : 434.7/18

Left In: -353.490 $\pm$ 59.592 χ^2/NDF :1622.0/15

Left: -163.295 $\pm$ 43.663 χ^2/NDF : 2556.2/32

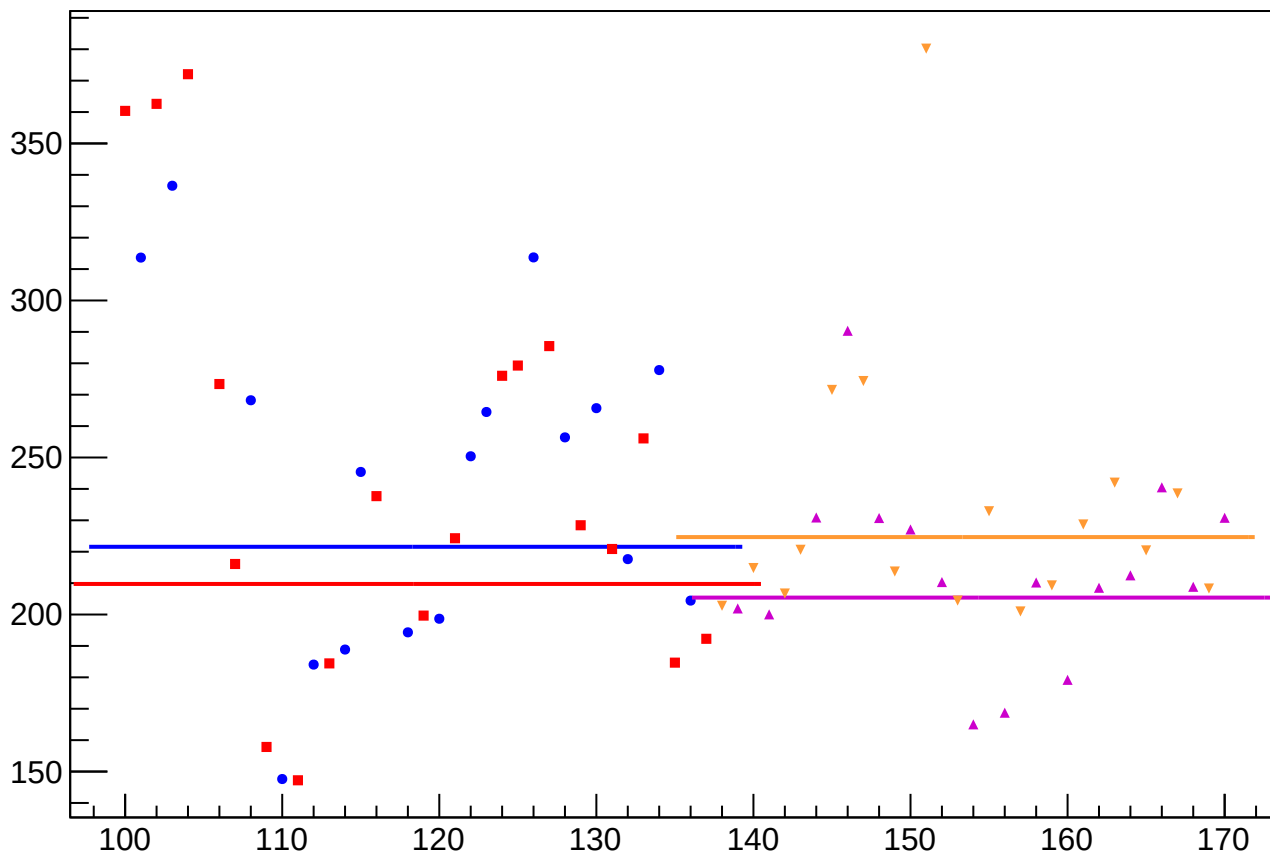
Right: -690.308 $\pm$ 60.489 χ^2/NDF : 729.5/35

In: -404.922 $\pm$ 49.558 χ^2/NDF :1912.5/32

Out: -280.149 $\pm$ 50.594 χ^2/NDF :1420.0/35

All: -343.826 $\pm$ 35.403 χ^2/NDF : 3335.6/68

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 221.570 $\pm$ 0.063 χ^2 /NDF: 644941.4/16

Left Out: 224.659 $\pm$ 0.045 χ^2 /NDF: 452155.3/16

Right Out: 209.736 $\pm$ 0.058 χ^2 /NDF: 883922.1/18

Left In: 205.390 $\pm$ 0.042 χ^2 /NDF: 443422.0/15

Left: 214.314 $\pm$ 0.031 χ^2 /NDF: 992429.5/32

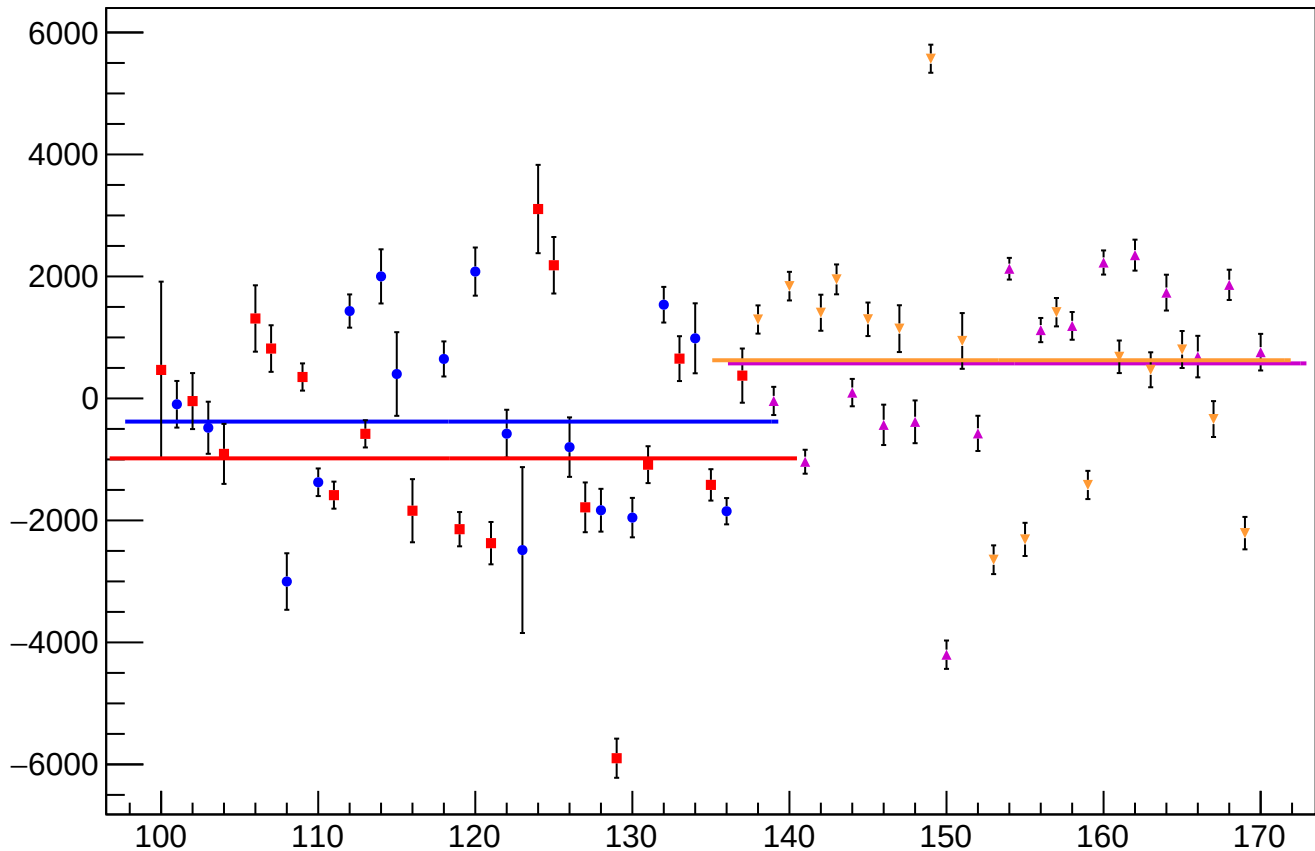
Right: 215.173 $\pm$ 0.043 χ^2 /NDF: 1547873.9/35

In: 210.379 $\pm$ 0.035 χ^2 /NDF: 1133833.5/32

Out: 219.016 $\pm$ 0.036 χ^2 /NDF: 1376994.4/35

All: 214.608 $\pm$ 0.025 χ^2 /NDF: 2540568.4/68

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -379.647 $\pm$ 84.260 χ^2/NDF : 317.2/16

Left Out: 625.793 $\pm$ 64.536 χ^2/NDF :1064.4/16

Right Out: -982.539 $\pm$ 77.724 χ^2/NDF : 476.3/18

Left In: 574.609 $\pm$ 60.053 χ^2/NDF :785.9/15

Left: 598.362 $\pm$ 43.964 χ^2/NDF : 1850.6/32

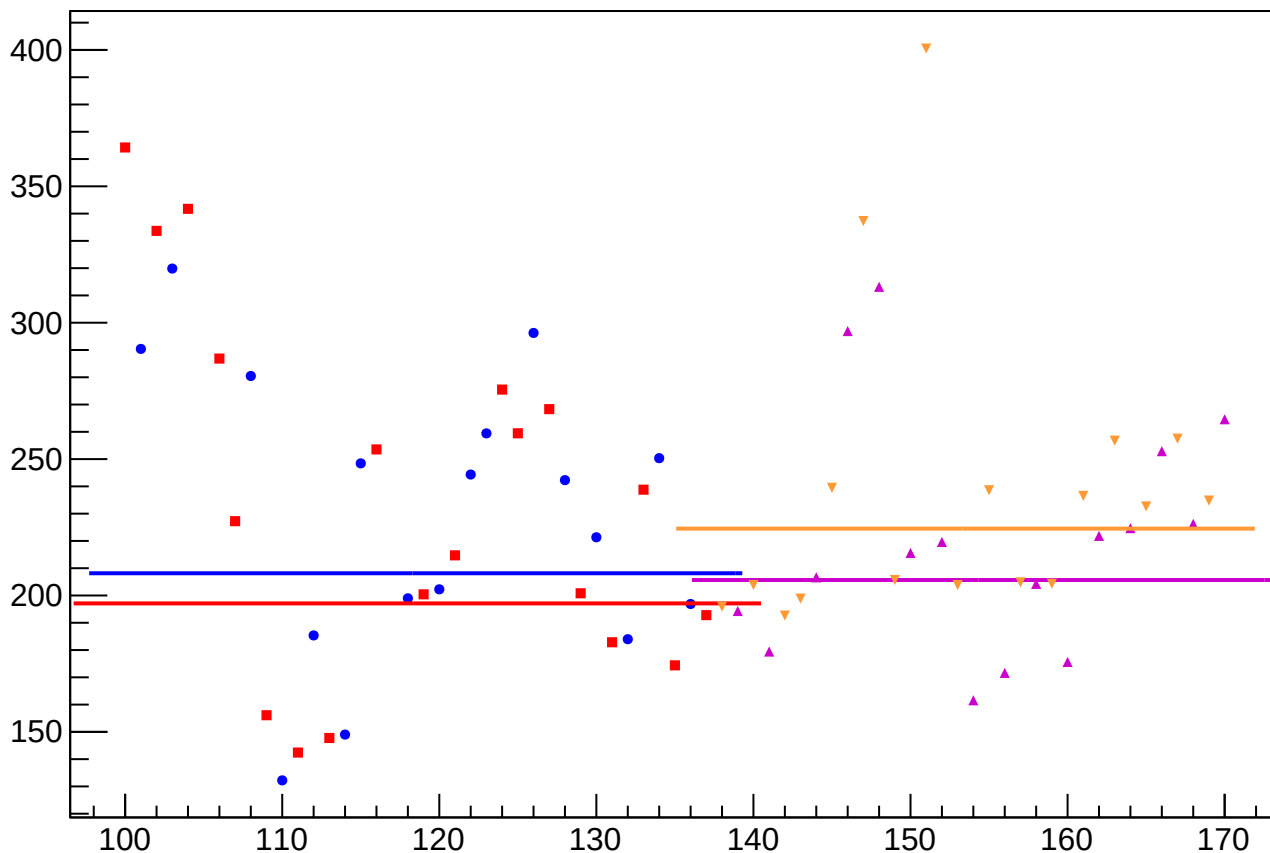
Right: -705.376 $\pm$ 57.130 χ^2/NDF : 821.1/35

In: 253.162 $\pm$ 48.904 χ^2/NDF :1188.1/32

Out: -30.541 $\pm$ 49.652 χ^2/NDF :1794.1/35

All: 113.463 $\pm$ 34.842 χ^2/NDF : 2998.8/68

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 208.151+/-0.060 χ^2/NDF : 699084.2/16

Left Out: 224.523+/-0.046 χ^2/NDF : 688957.6/16

Right Out: 197.103+/-0.055 χ^2/NDF : 926467.5/18

Left In: 205.673+/-0.042 χ^2/NDF : 762997.9/15

Left: 214.421+/-0.031 χ^2/NDF : 1543397.3/32

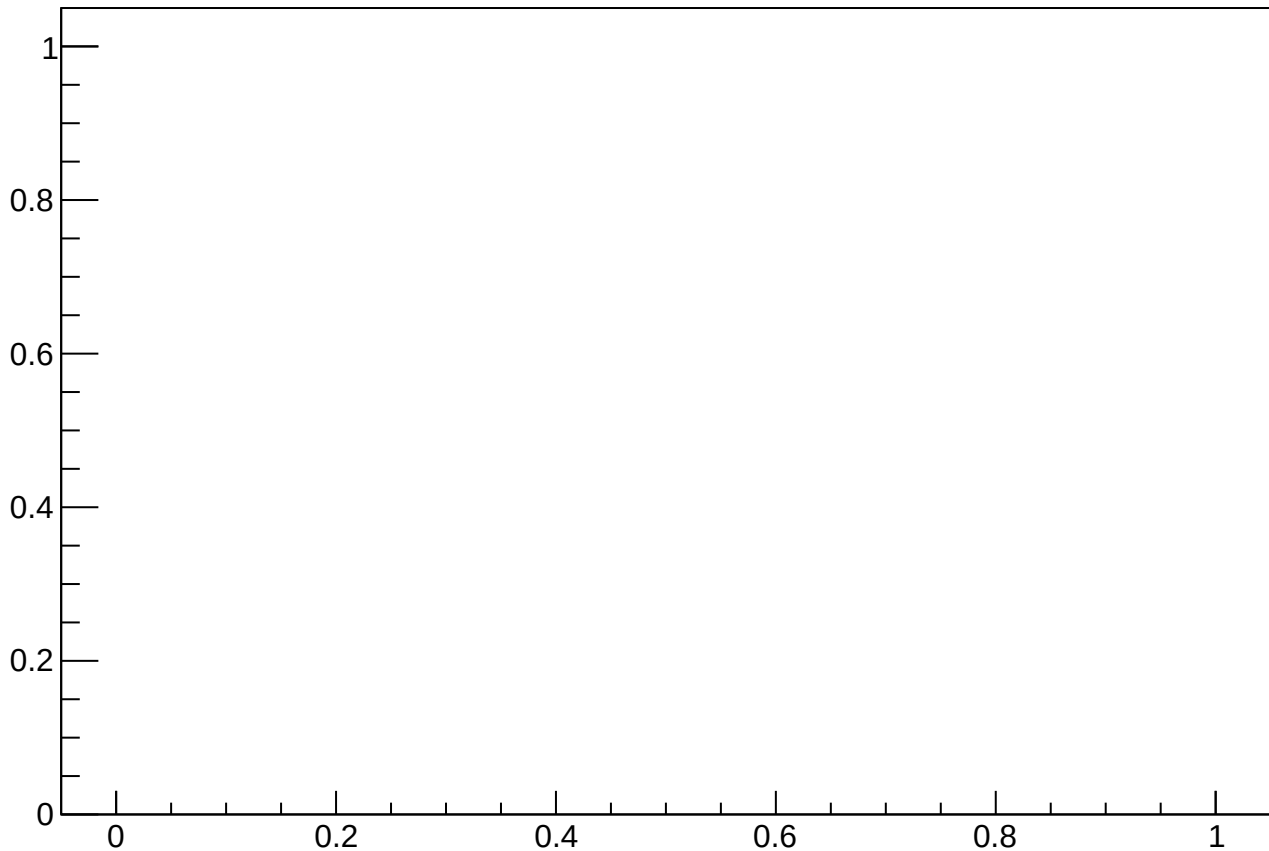
Right: 202.182+/-0.040 χ^2/NDF : 1644129.7/35

In: 206.508+/-0.035 χ^2/NDF : 1463228.8/32

Out: 213.333+/-0.035 χ^2/NDF : 1762765.9/35

All: 209.869+/-0.025 χ^2/NDF : 3245177.7/68

bcm_an_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

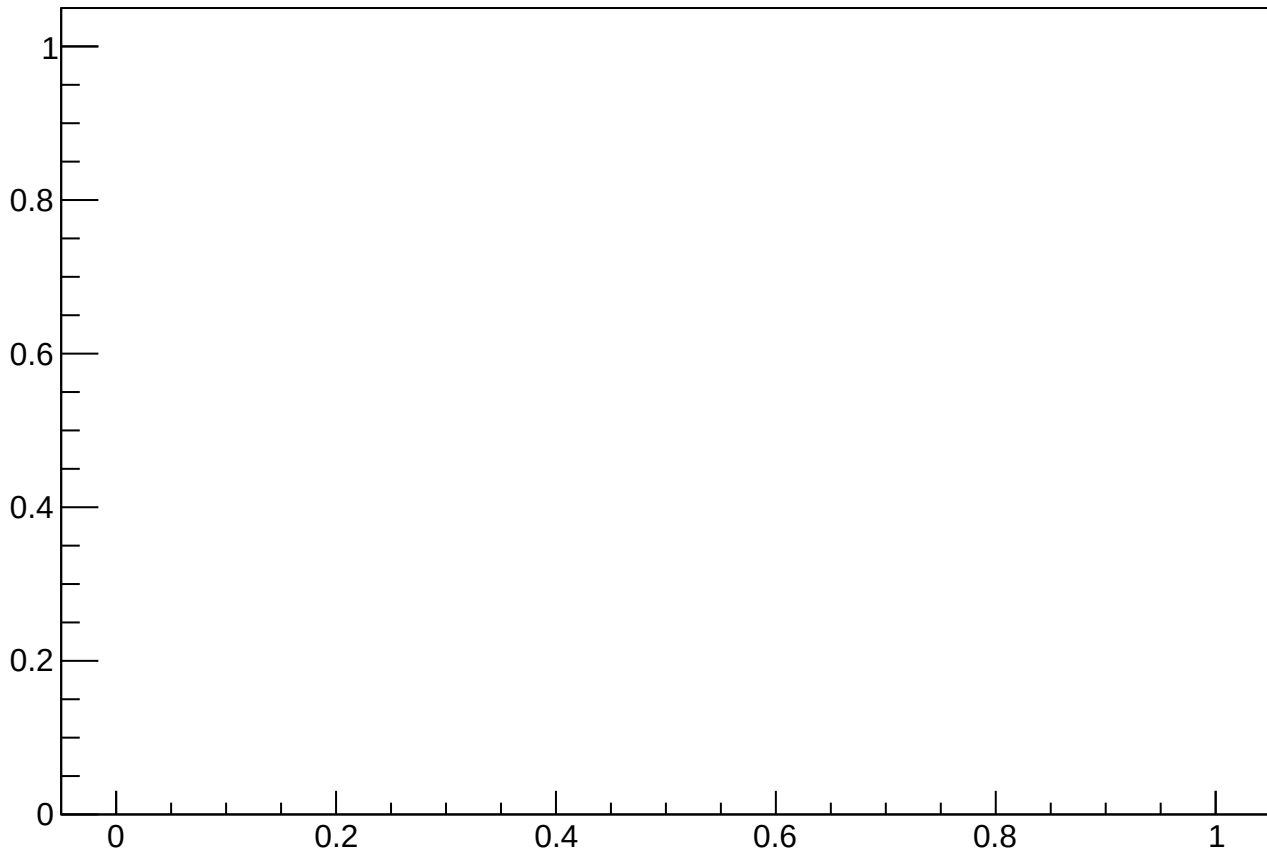
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:0.0/0

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

bcm_an_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

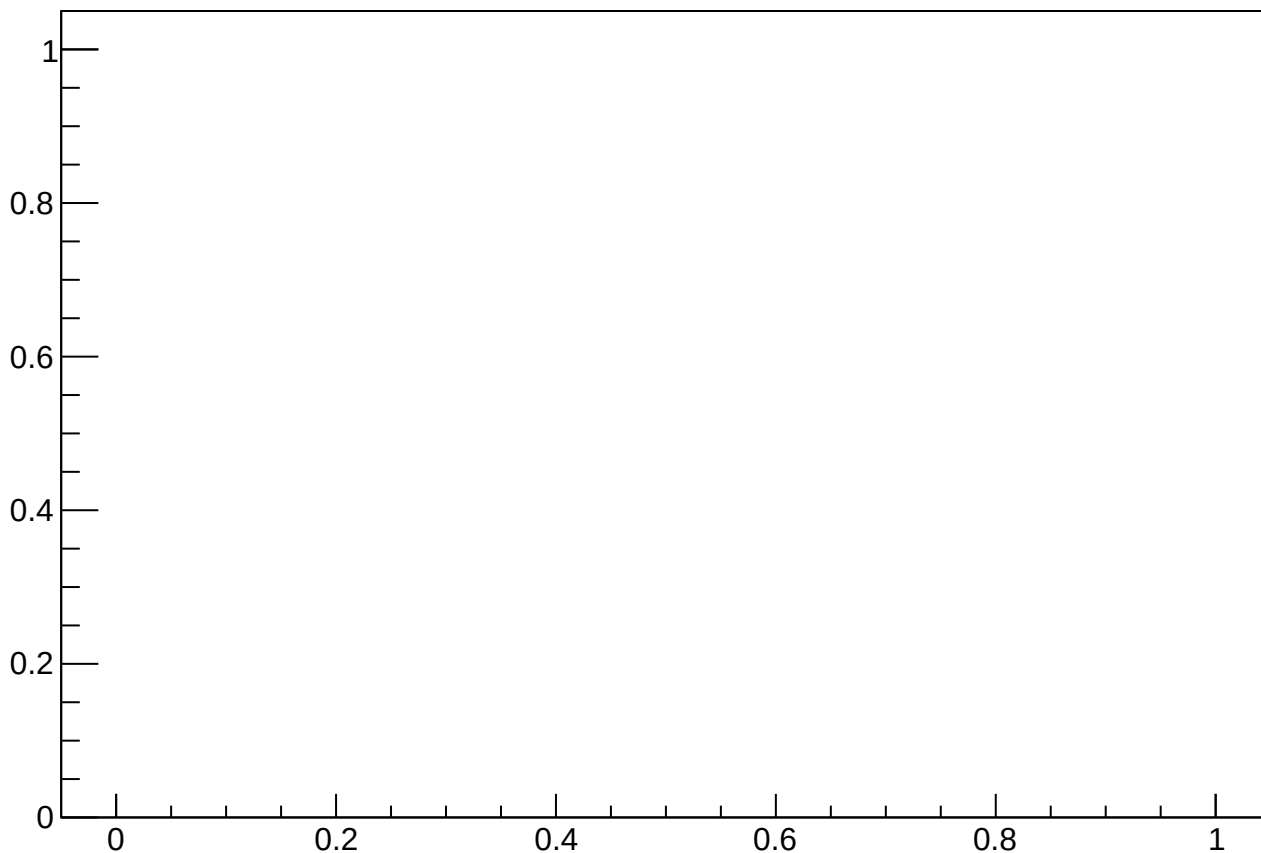
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

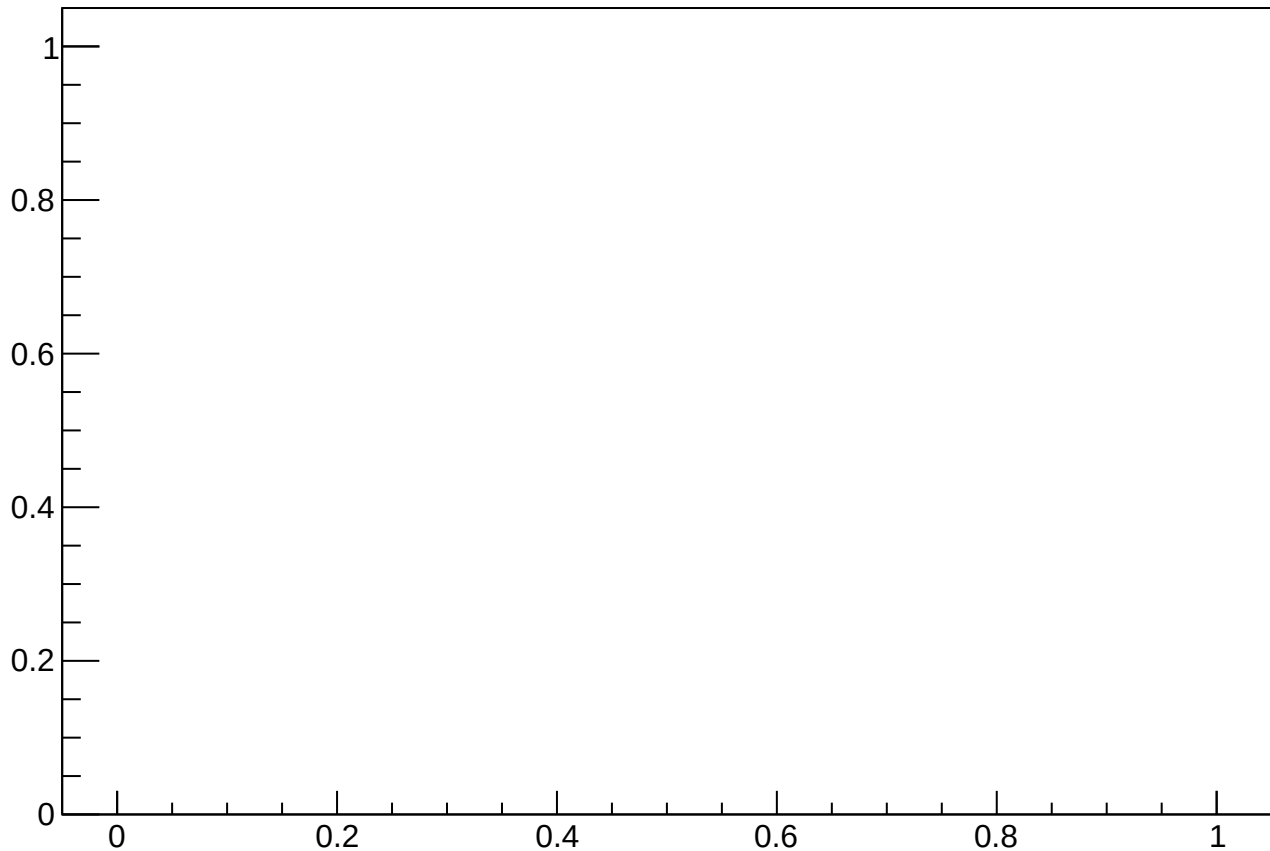
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

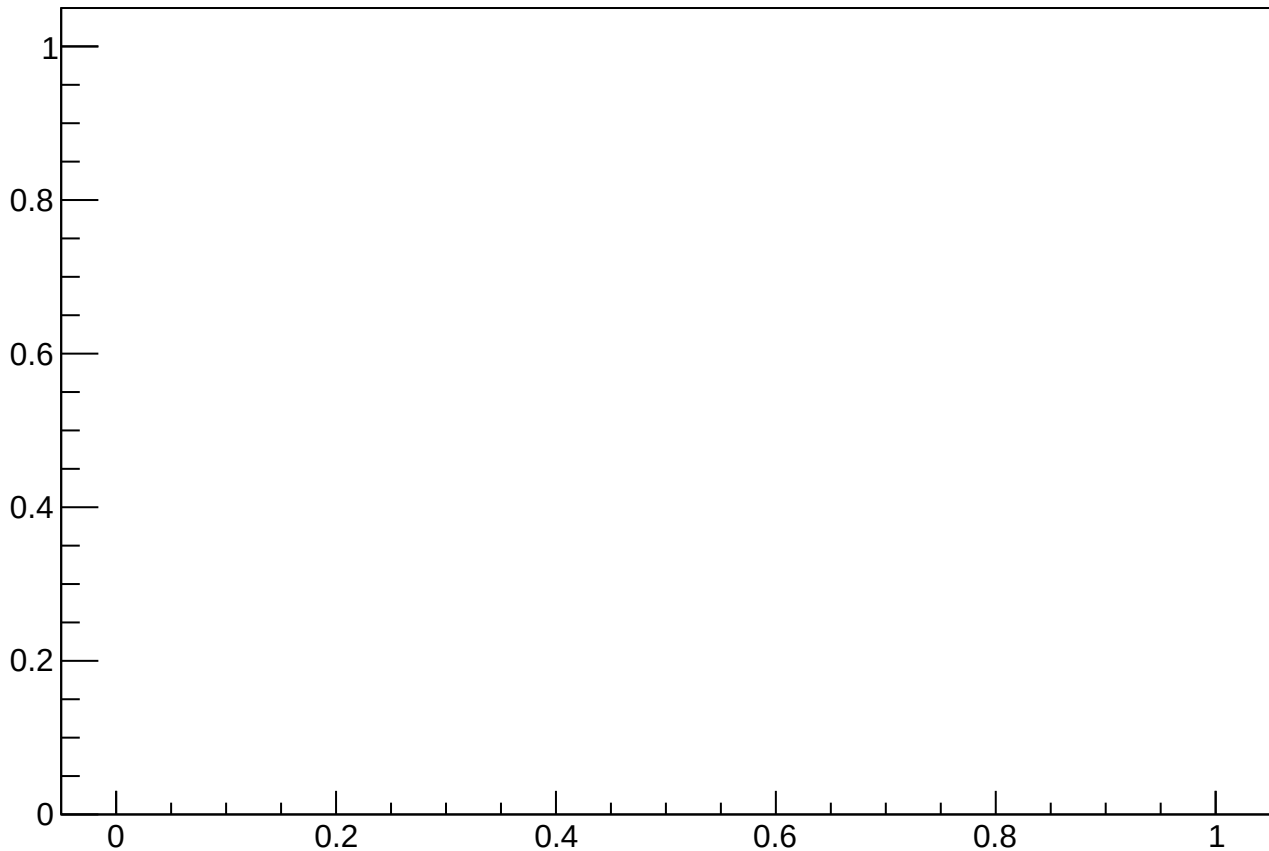
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

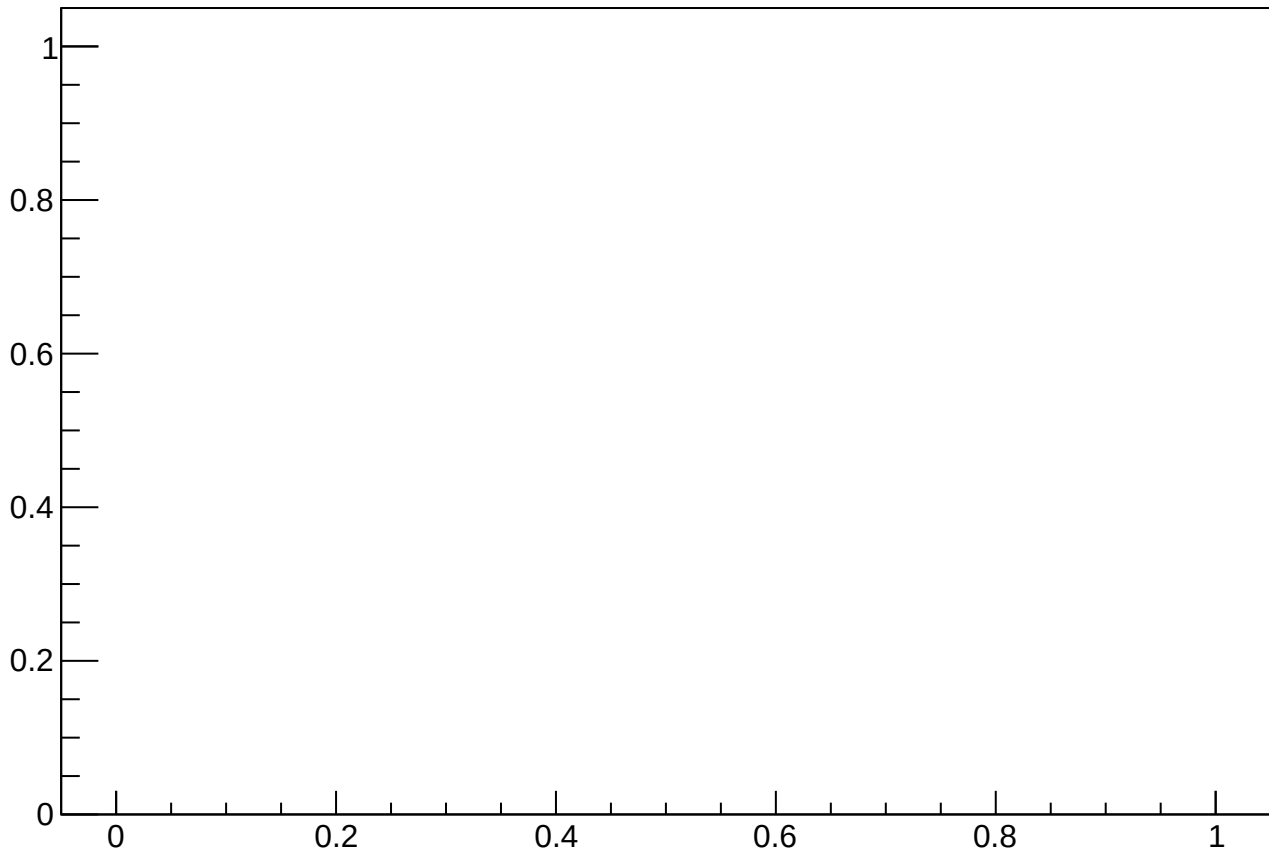
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_us_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

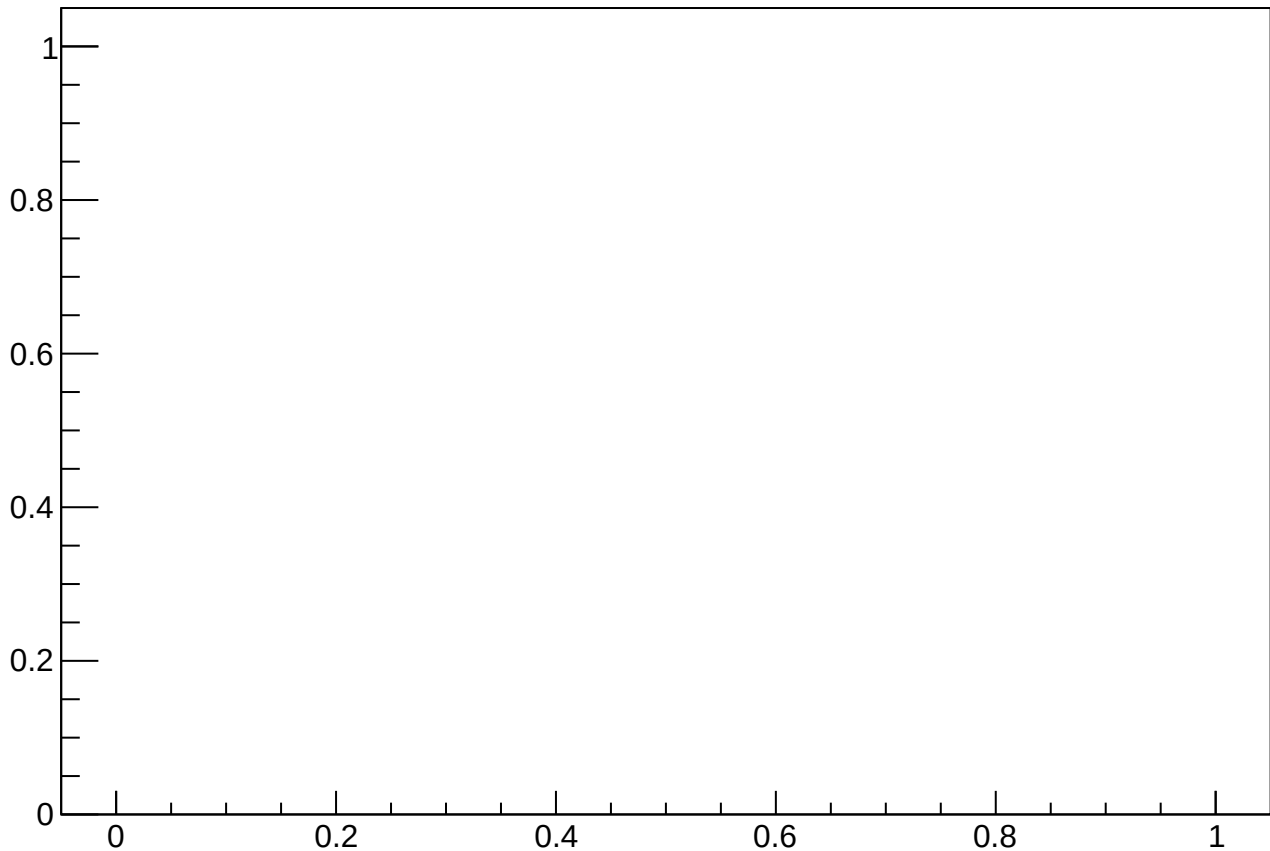
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

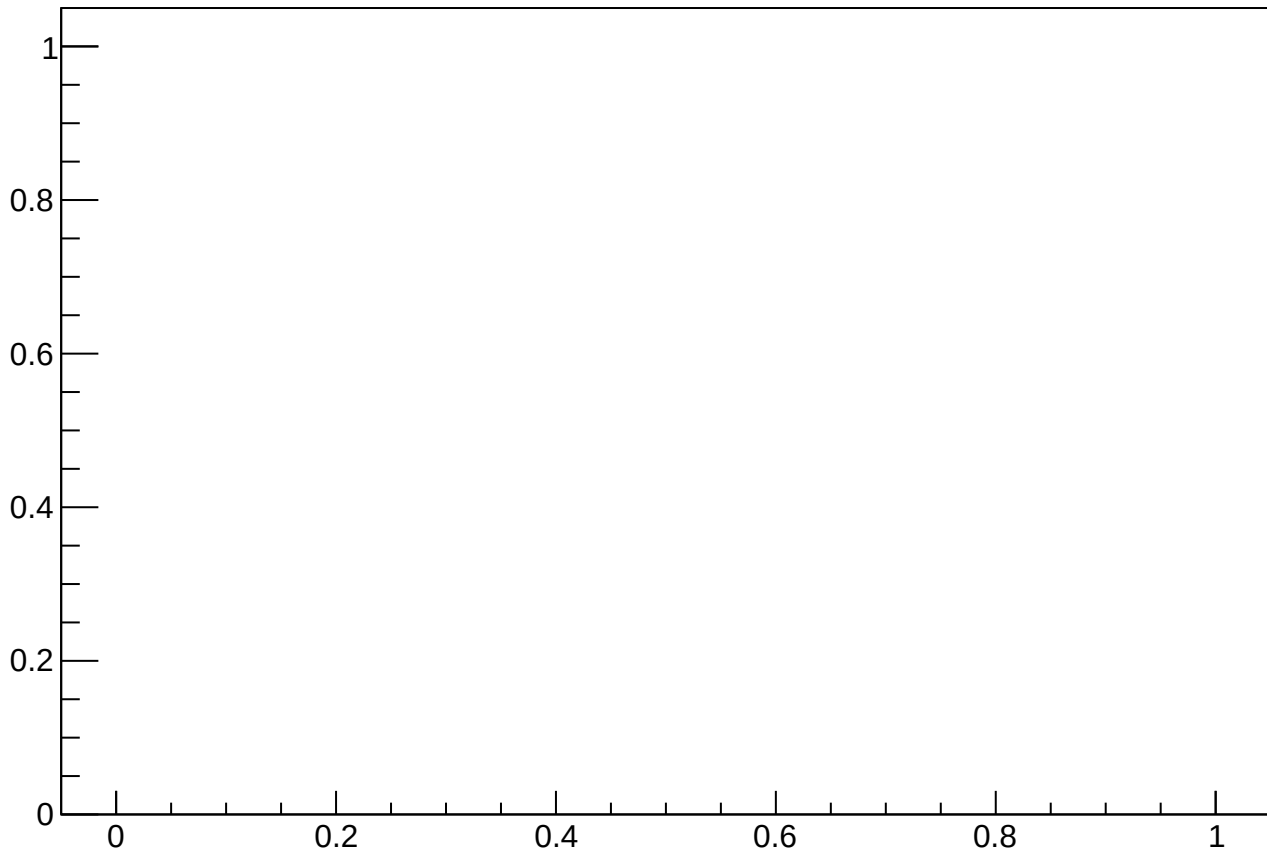
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: 0.000+/-0.000 χ^2/NDF : 0.0/0

bcm_dg_ds_ds_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

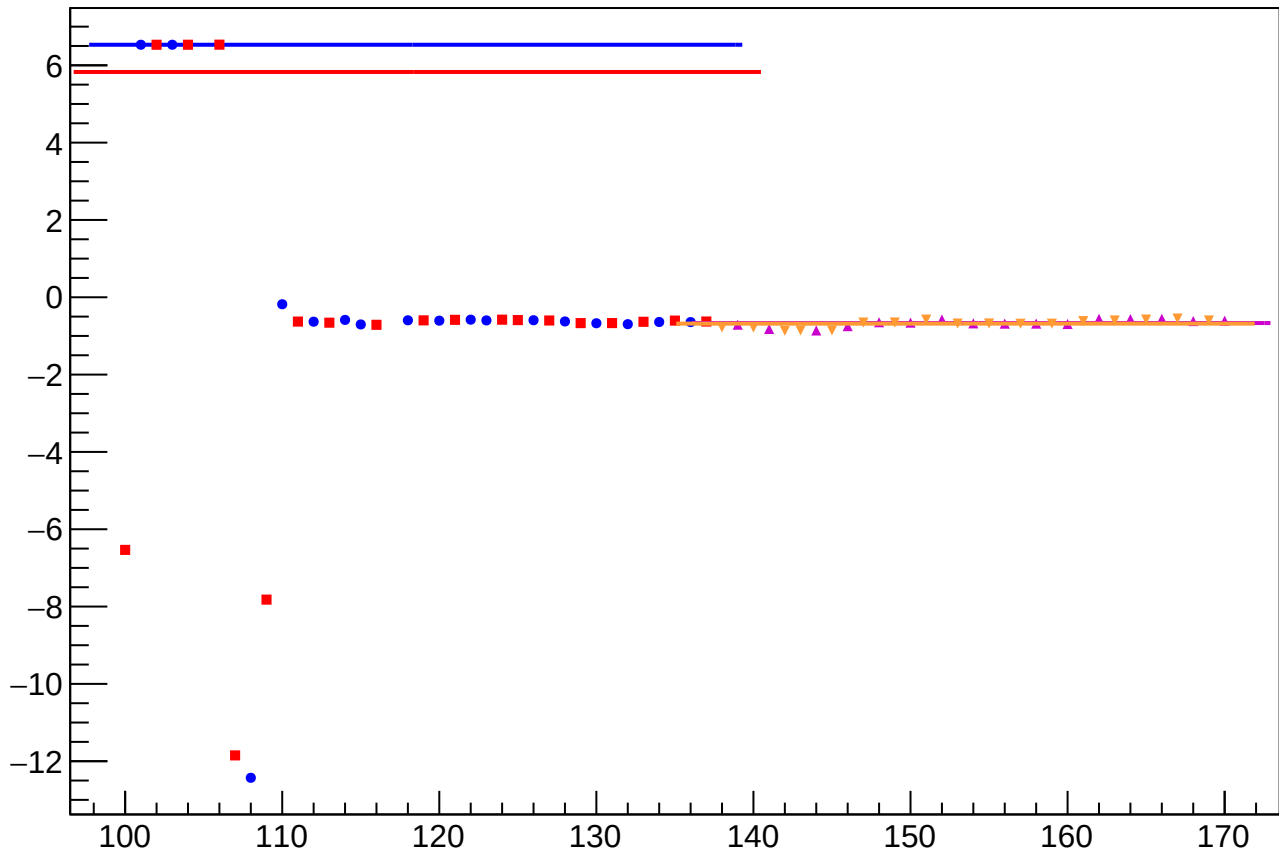
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

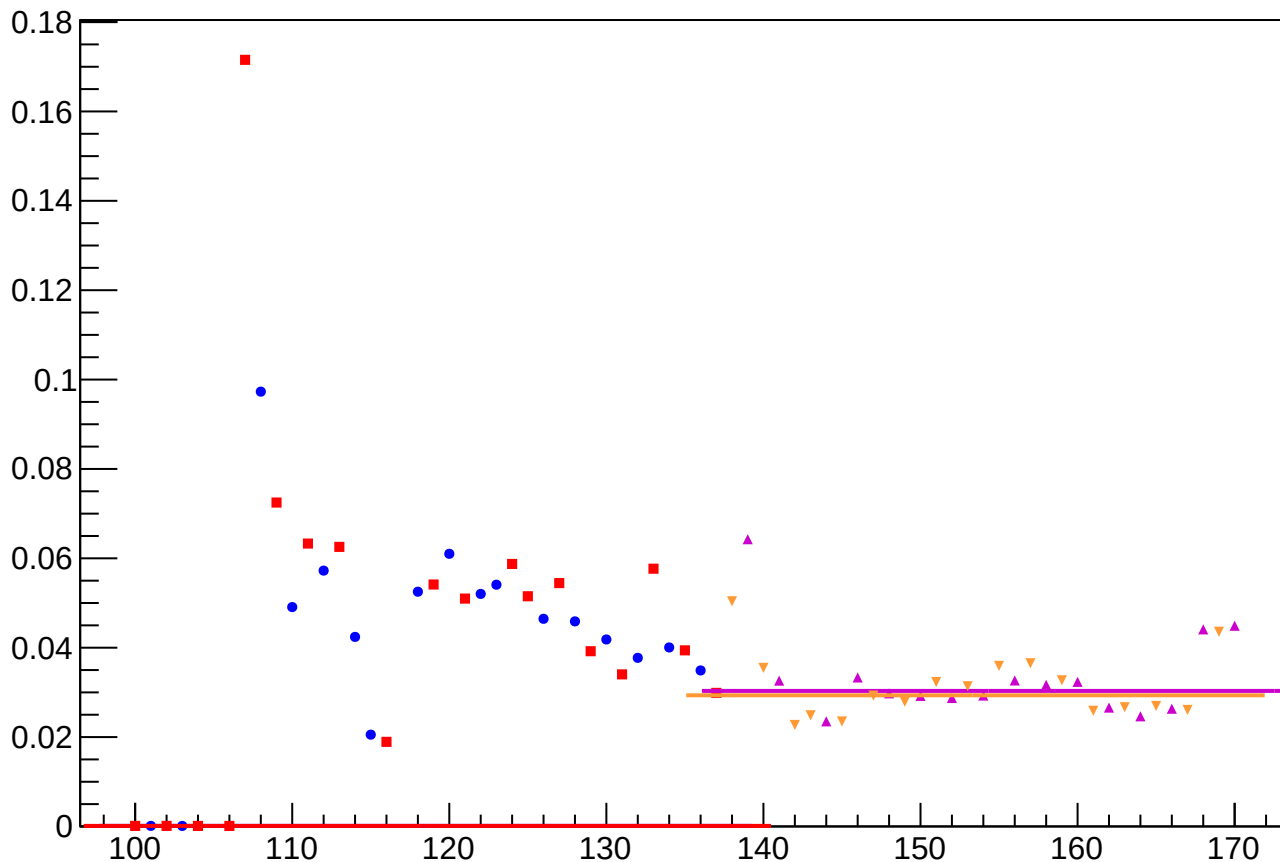
All: 0.000+/-0.000 χ^2/NDF : 0.0/0

yield_cav4bX_mean vs Slug, Sign Corrected



Left: -0.674 +/- 0.000 χ^2/NDF : 224055885.0/32
 Right: 6.155 +/- 0.000 χ^2/NDF : 776094576922584.5
 In: 6.531 +/- 0.000 χ^2/NDF : 683870872644.8/32
 Out: 5.827 +/- 0.000 χ^2/NDF : 756455521170829.6/32
 All: 6.154 +/- 0.000 χ^2/NDF : 77713752677116

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8888070.2/16

Left Out: 0.029+/-0.000 χ^2/NDF : 724284.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 9349631.9/18

Left In: 0.030+/-0.000 χ^2/NDF : 905598.5/15

Left: 0.030+/-0.000 χ^2/NDF : 1640691.9/32

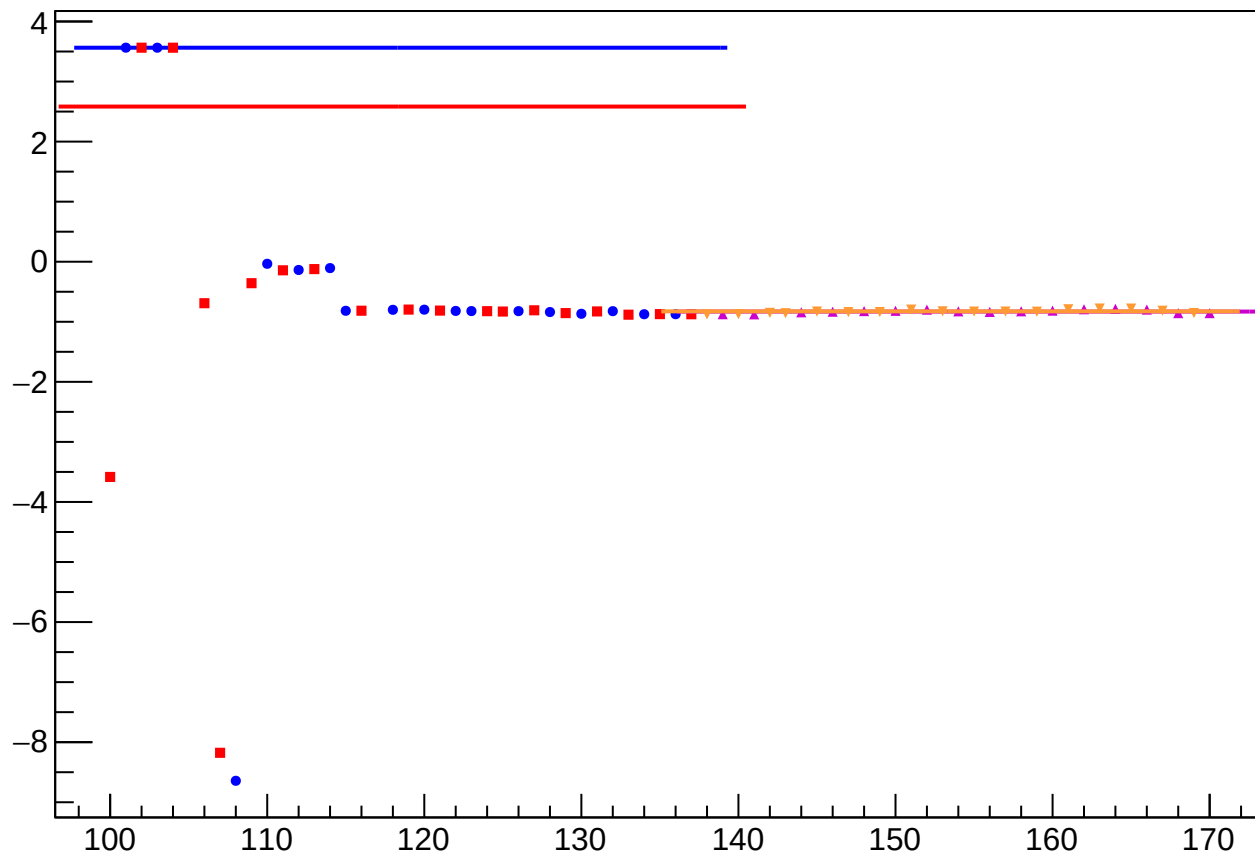
Right: 0.000+/-0.000 χ^2/NDF : 18237948.0/35

In: 0.000+/-0.000 χ^2/NDF : 29395716.4/32

Out: 0.000+/-0.000 χ^2/NDF : 29919225.0/35

All: 0.000+/-0.000 χ^2/NDF : 59315310.3/68

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 481634392464.0/16

Left Out: -0.827+/-0.000 χ^2/NDF : 132383642.7/16

Right Out: 2.583+/-0.000 χ^2/NDF : 1253502070019187.0/18

Left In: -0.830+/-0.000 χ^2/NDF : 117587265.8/15

Left: -0.828+/-0.000 χ^2/NDF : 250747792.5/32

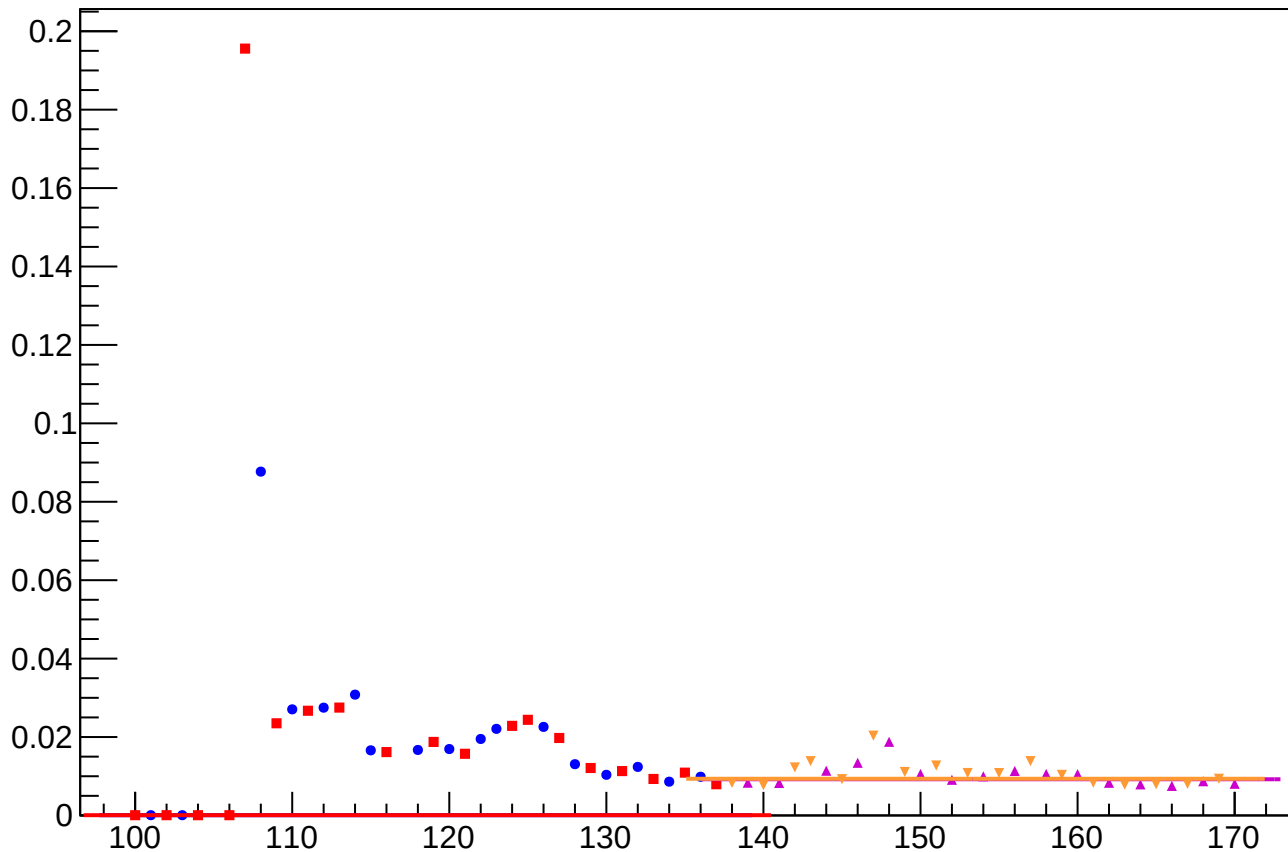
Right: 3.040+/-0.000 χ^2/NDF : 1382254685120485.1

In: 3.561+/-0.000 χ^2/NDF : 2765718104767.1/32

Out: 2.582+/-0.000 χ^2/NDF : 1254843771144262.2

All: 3.039+/-0.000 χ^2/NDF : 13857527440437.1

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9724059.3/16

Left Out: 0.009+/-0.000 χ^2/NDF :1061659.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 9861757.0/18

Left In: 0.009+/-0.000 χ^2/NDF :790115.4/15

Left: 0.009+/-0.000 χ^2/NDF : 1853587.6/32

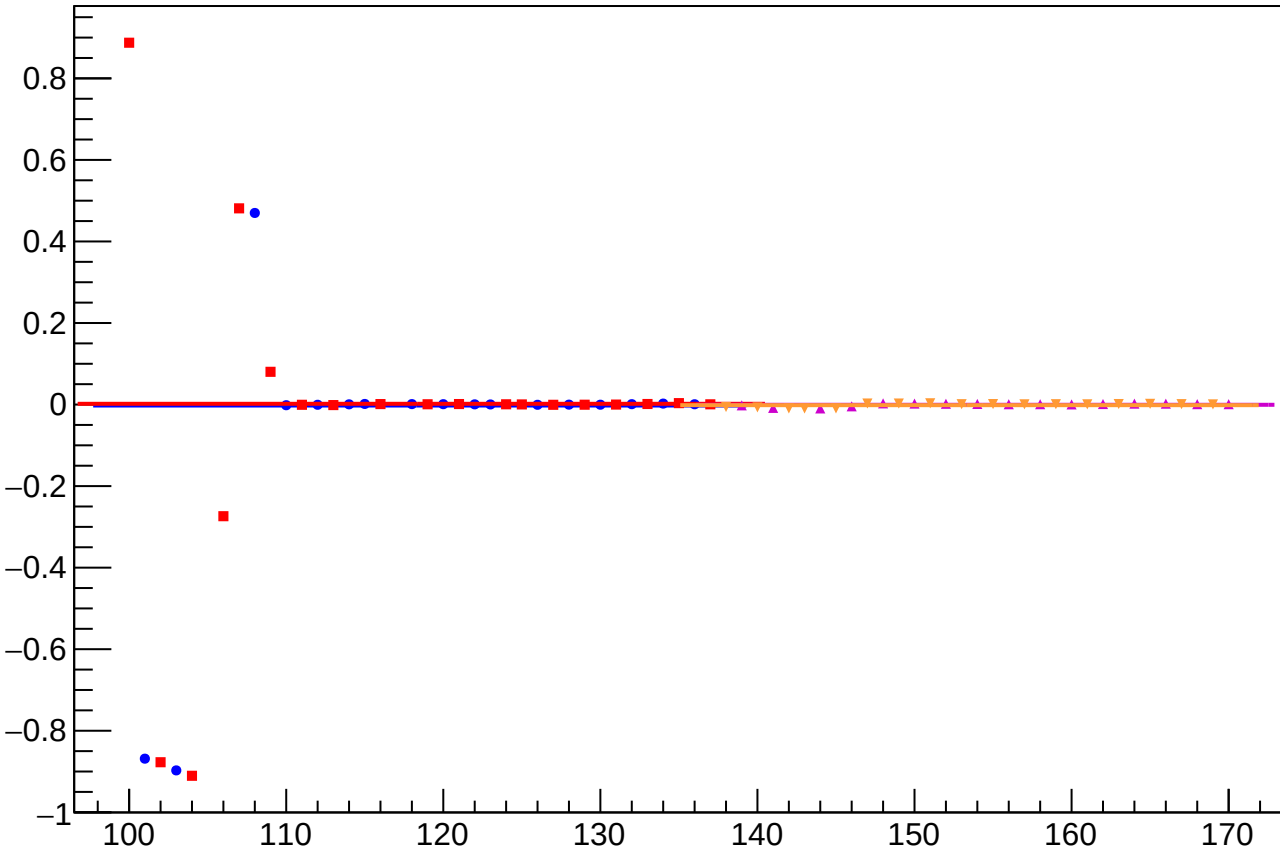
Right: 0.000+/-0.000 χ^2/NDF : 19586090.4/35

In: 0.000+/-0.000 χ^2/NDF :30386125.4/32

Out: 0.000+/-0.000 χ^2/NDF :30835376.0/35

All: 0.000+/-0.000 χ^2/NDF : 61222188.7/68

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9794863405.3/16

Left Out: -0.002+/-0.000 χ^2/NDF :93220628.8/16

Right Out: 0.002+/-0.000 χ^2/NDF : 3041319824.4/18

Left In: -0.001+/-0.000 χ^2/NDF :67345316.0/15

Left: -0.001 ± 0.000 $\chi^2/\text{NDF}: 162411676.6/32$

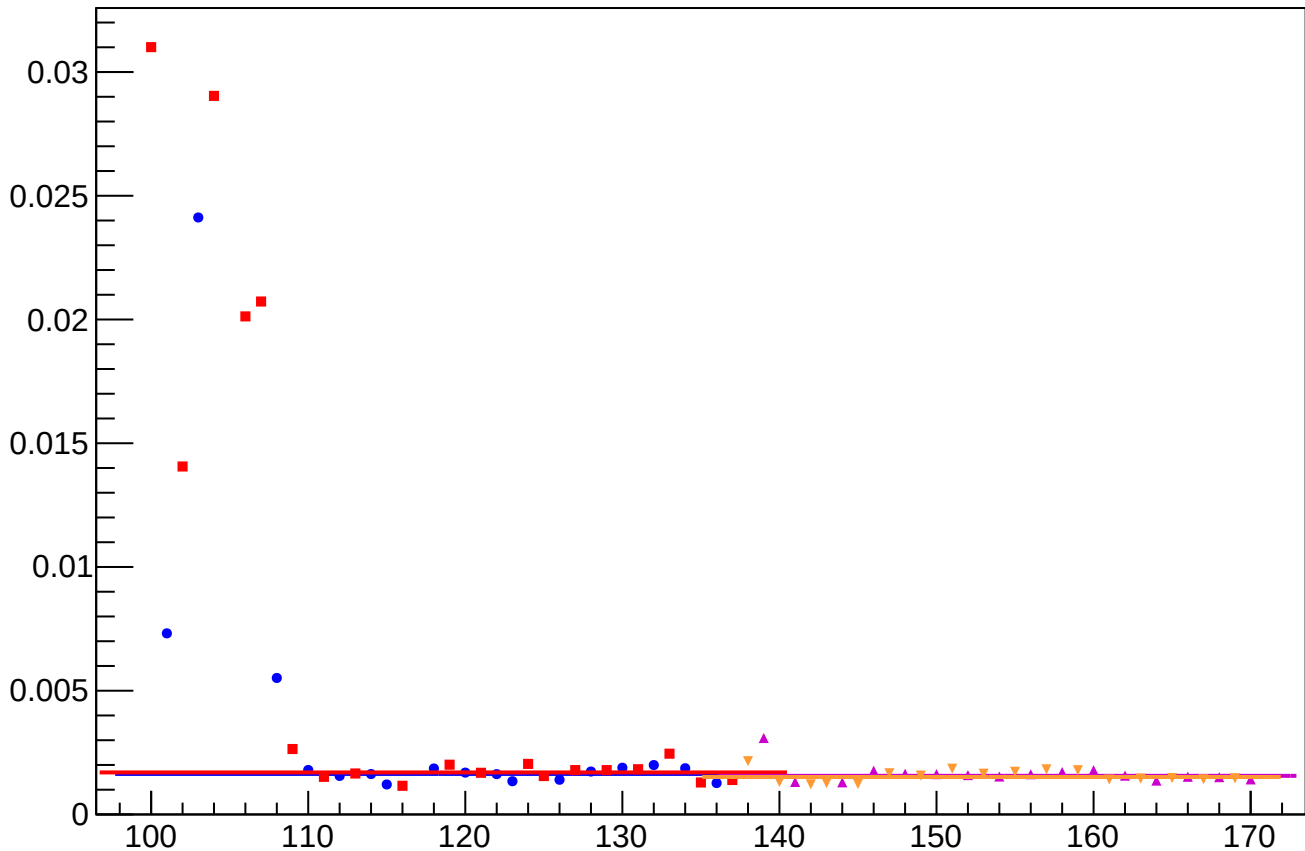
Right: -0.000+/-0.000 χ^2/NDF : 12850350896.6/35

In: -0.001+/-0.000 χ^2/NDF :9865929998.4/32

Out: -0.001+/-0.000 χ^2/NDF :3147482533.5/35

All: -0.001 ± 0.000 χ^2/NDF : 13014009586.0/

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1916349.1/16

Left Out: 0.002+/-0.000 χ^2/NDF : 428889.1/16

Right Out: 0.002+/-0.000 χ^2/NDF : 3023899.0/18

Left In: 0.002+/-0.000 χ^2/NDF : 539796.7/15

Left: 0.002+/-0.000 χ^2/NDF : 977956.8/32

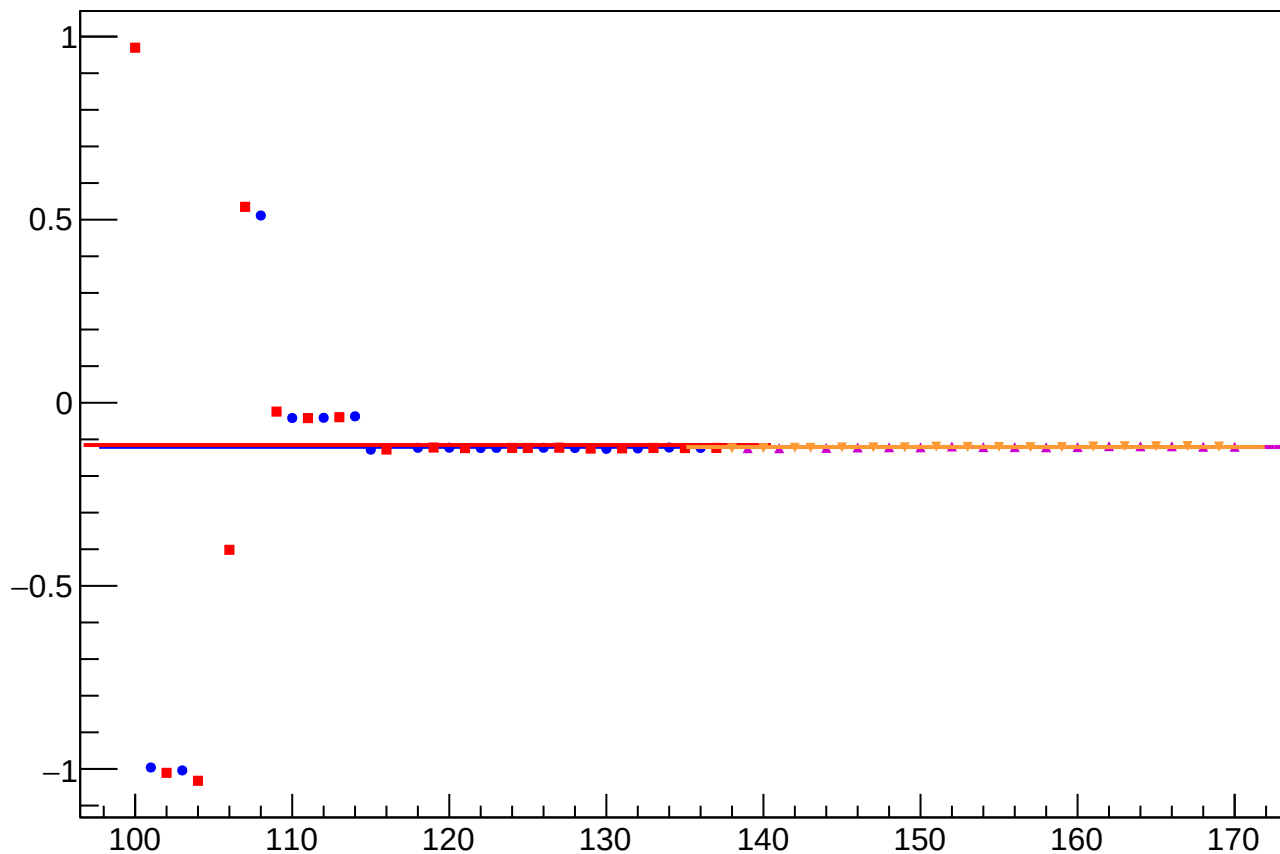
Right: 0.002+/-0.000 χ^2/NDF : 4945998.5/35

In: 0.002+/-0.000 χ^2/NDF : 2470376.5/32

Out: 0.002+/-0.000 χ^2/NDF : 3530072.9/35

All: 0.002+/-0.000 χ^2/NDF : 6003080.2/68

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.120+/-0.000 χ^2/NDF : 3932144335.2/16

Left Out: -0.121+/-0.000 χ^2/NDF : 32120441.9/16

Right Out: -0.115+/-0.000 χ^2/NDF : 2456843337.8/18

Left In: -0.121+/-0.000 χ^2/NDF : 28632825.7/15

Left: -0.121+/-0.000 χ^2/NDF : 60753461.7/32

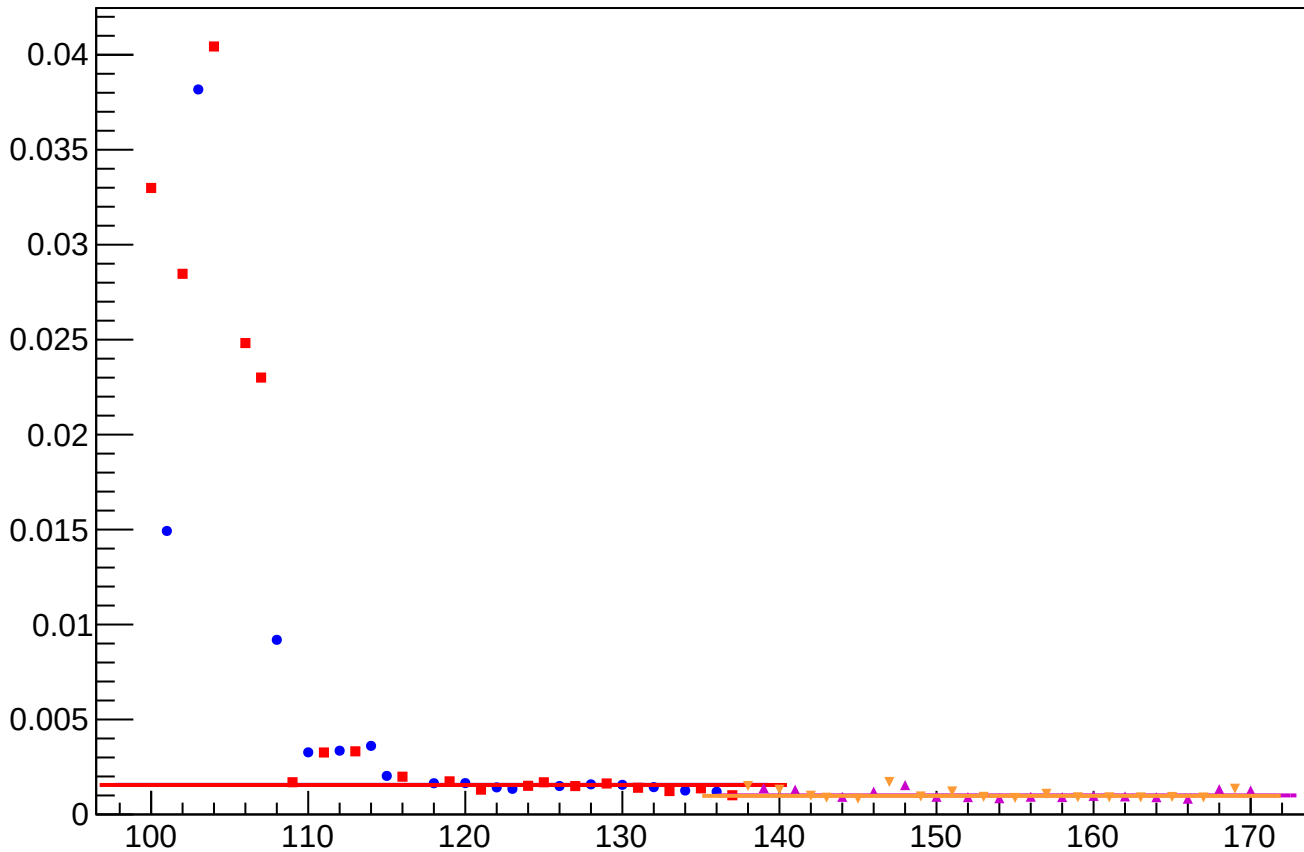
Right: -0.118+/-0.000 χ^2/NDF : 6411653427.4/35

In: -0.121+/-0.000 χ^2/NDF : 3961215381.2/32

Out: -0.120+/-0.000 χ^2/NDF : 2537047632.3/35

All: -0.120+/-0.000 χ^2/NDF : 6501254002.0/6

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 2901093.3/16

Left Out: 0.001 $\pm$ 0.000 χ^2 /NDF:840906.8/16

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 3539455.6/18

Left In: 0.001 $\pm$ 0.000 χ^2 /NDF:731586.4/15

Left: 0.001 $\pm$ 0.000 χ^2 /NDF: 1578654.0/32

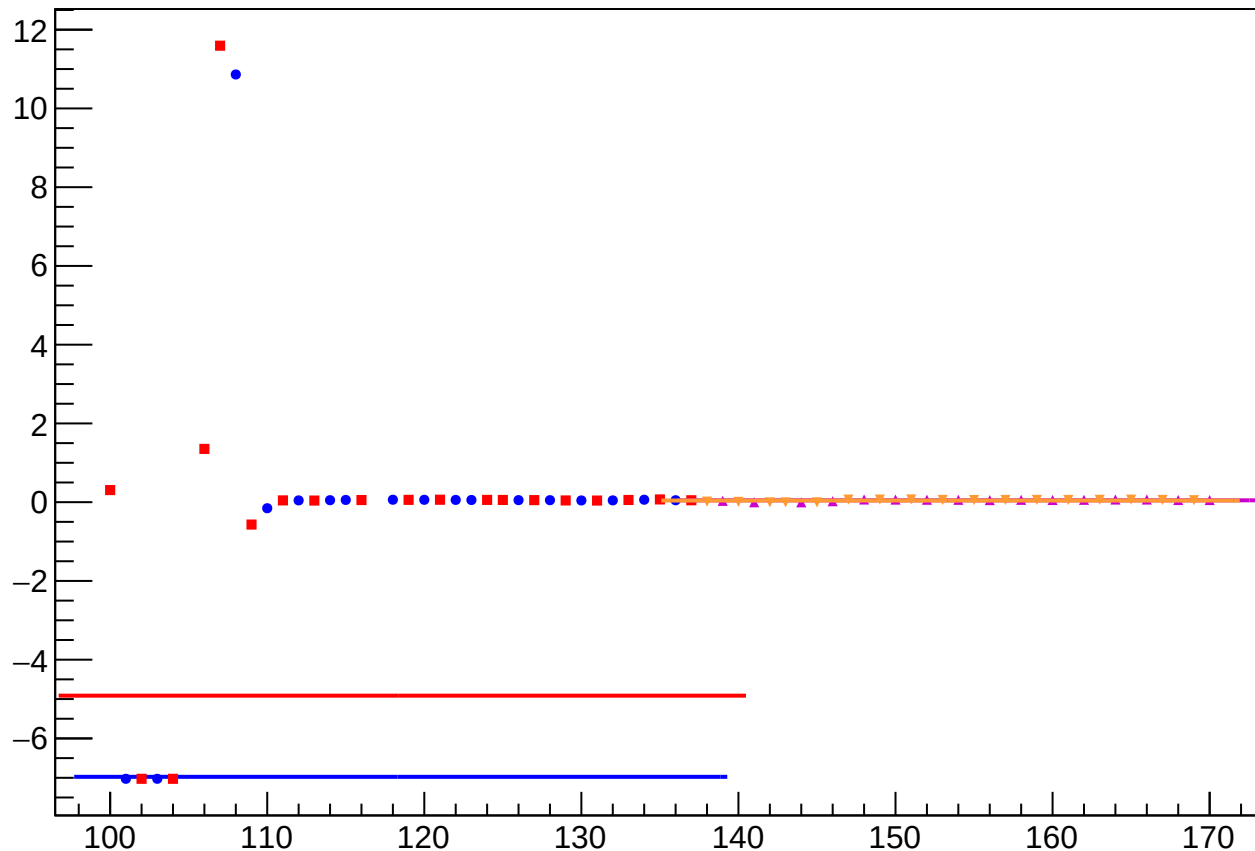
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 6440590.7/35

In: 0.001 $\pm$ 0.000 χ^2 /NDF:4623008.1/32

Out: 0.001 $\pm$ 0.000 χ^2 /NDF:5452443.9/35

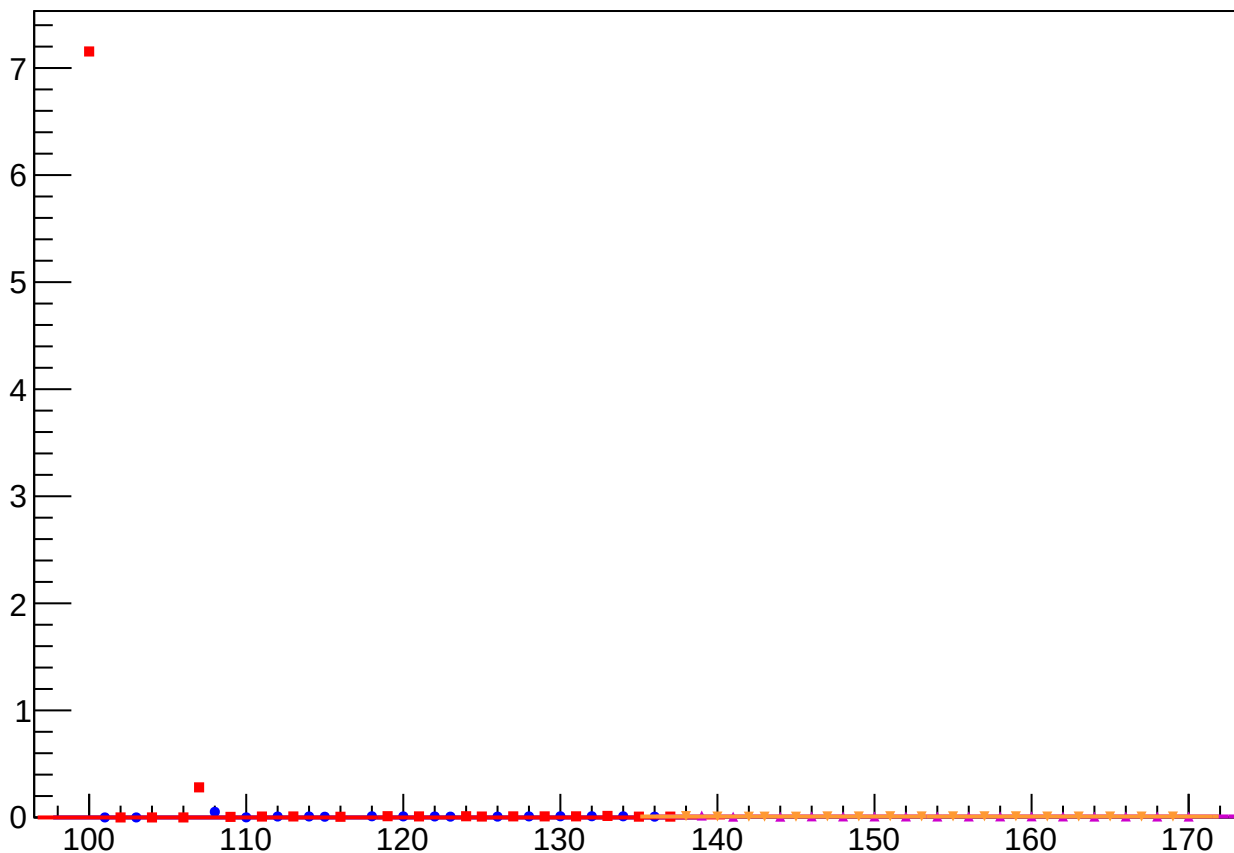
All: 0.001 $\pm$ 0.000 χ^2 /NDF: 10083377.0/68

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8749579700722.8/16
 Left Out: 0.042+/-0.000 χ^2/NDF : 94671858.5/16
 Right Out: -4.914+/-0.000 χ^2/NDF : 365358092730279.9/18
 Left In: 0.047+/-0.000 χ^2/NDF : 74630319.3/15
 Left: 0.045+/-0.000 χ^2/NDF : 170826418.2/32
 Right: -5.900+/-0.000 χ^2/NDF : 430307691650468.6
 In: -6.942+/-0.000 χ^2/NDF : 14581854985837.9/32
 Out: -4.891+/-0.000 χ^2/NDF : 368463788094368.3
 All: -5.872+/-0.000 χ^2/NDF : 4389549747096

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8242728.7/16

Left Out: 0.009+/-0.000 χ^2/NDF : 422225.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 8775982.6/18

Left In: 0.009+/-0.000 χ^2/NDF : 531135.3/15

Left: 0.009+/-0.000 χ^2/NDF : 963106.1/32

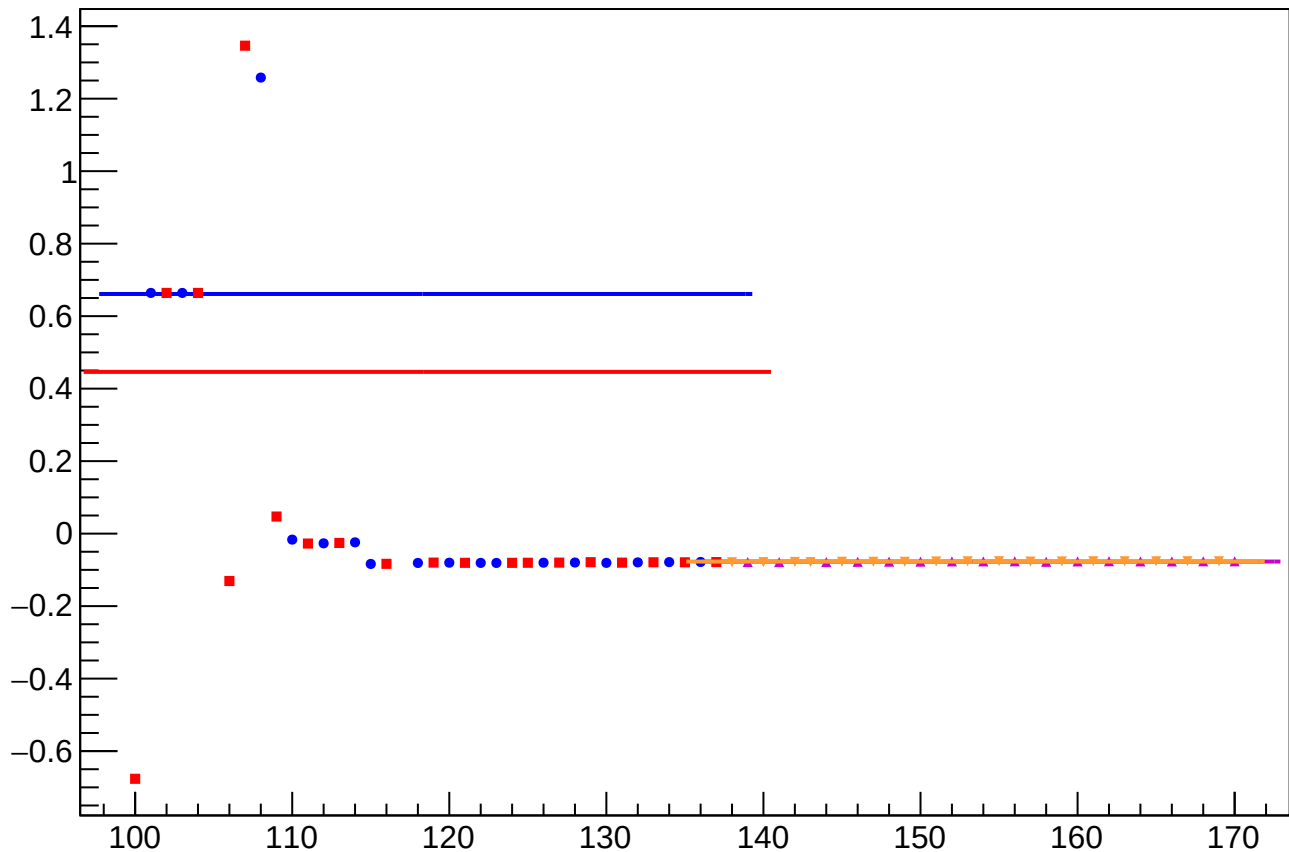
Right: 0.000+/-0.000 χ^2/NDF : 17018999.2/35

In: 0.000+/-0.000 χ^2/NDF : 28091486.3/32

Out: 0.000+/-0.000 χ^2/NDF : 28597165.2/35

All: 0.000+/-0.000 χ^2/NDF : 56689427.0/68

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000

χ^2/NDF : 5607525081216.0/16

Left: -0.077+/-0.000

χ^2/NDF : 55685670.5/32

Left Out: -0.077+/-0.000

χ^2/NDF : 32218405.3/16

Right: 0.549+/-0.000

χ^2/NDF : 473947475230218.3

Right Out: 0.446+/-0.000

χ^2/NDF : 405416924315199.0/18

In: 0.651+/-0.000

χ^2/NDF : 25540051920152.3/32

Out: 0.439+/-0.000

χ^2/NDF : 415558862176380.3/32

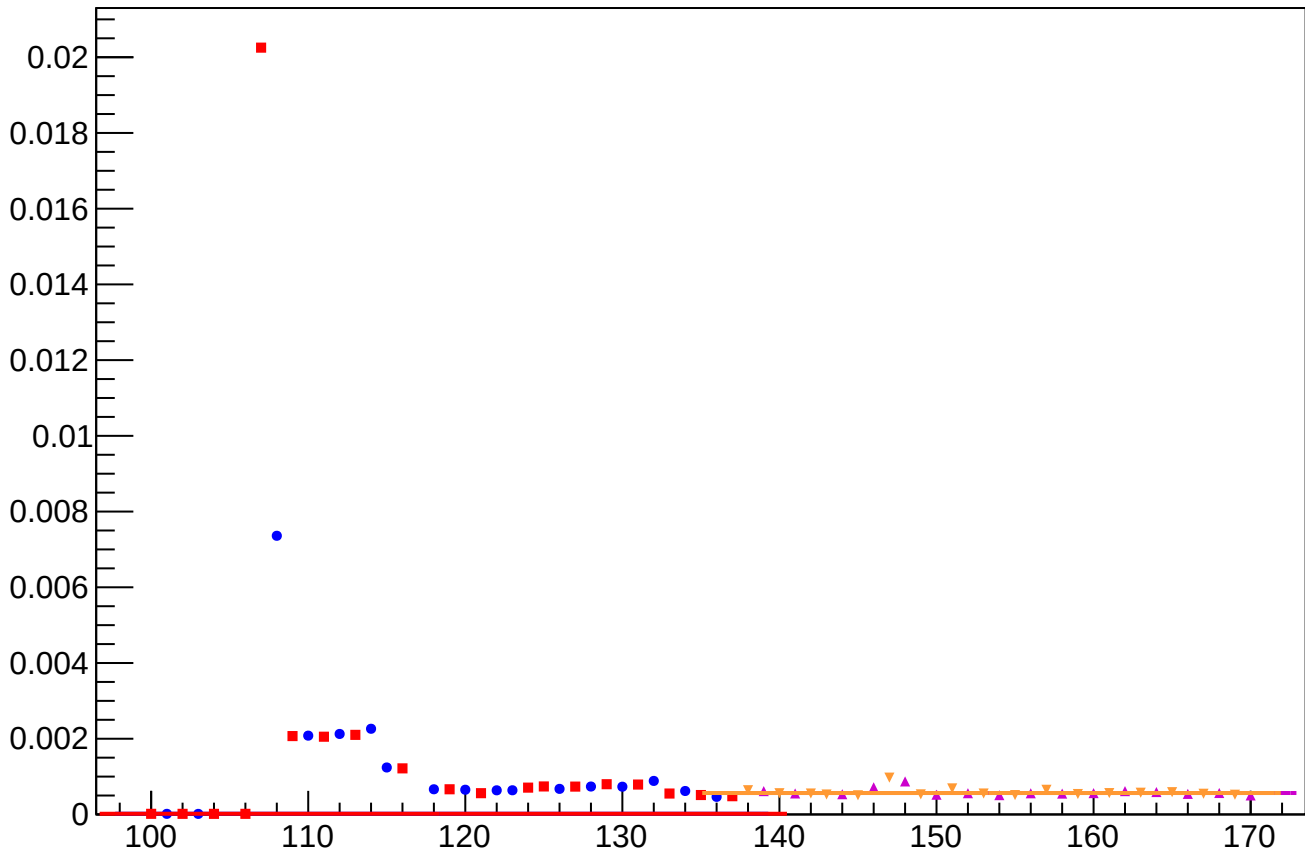
Left In: -0.077+/-0.000

χ^2/NDF : 23463511.6/15

All: 0.540+/-0.000

χ^2/NDF : 50278578114736.0

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9874012.7/16

Left Out: 0.001+/-0.000 χ^2/NDF : 423458.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 9480848.1/18

Left In: 0.001+/-0.000 χ^2/NDF : 343444.9/15

Left: 0.001+/-0.000 χ^2/NDF : 766905.3/32

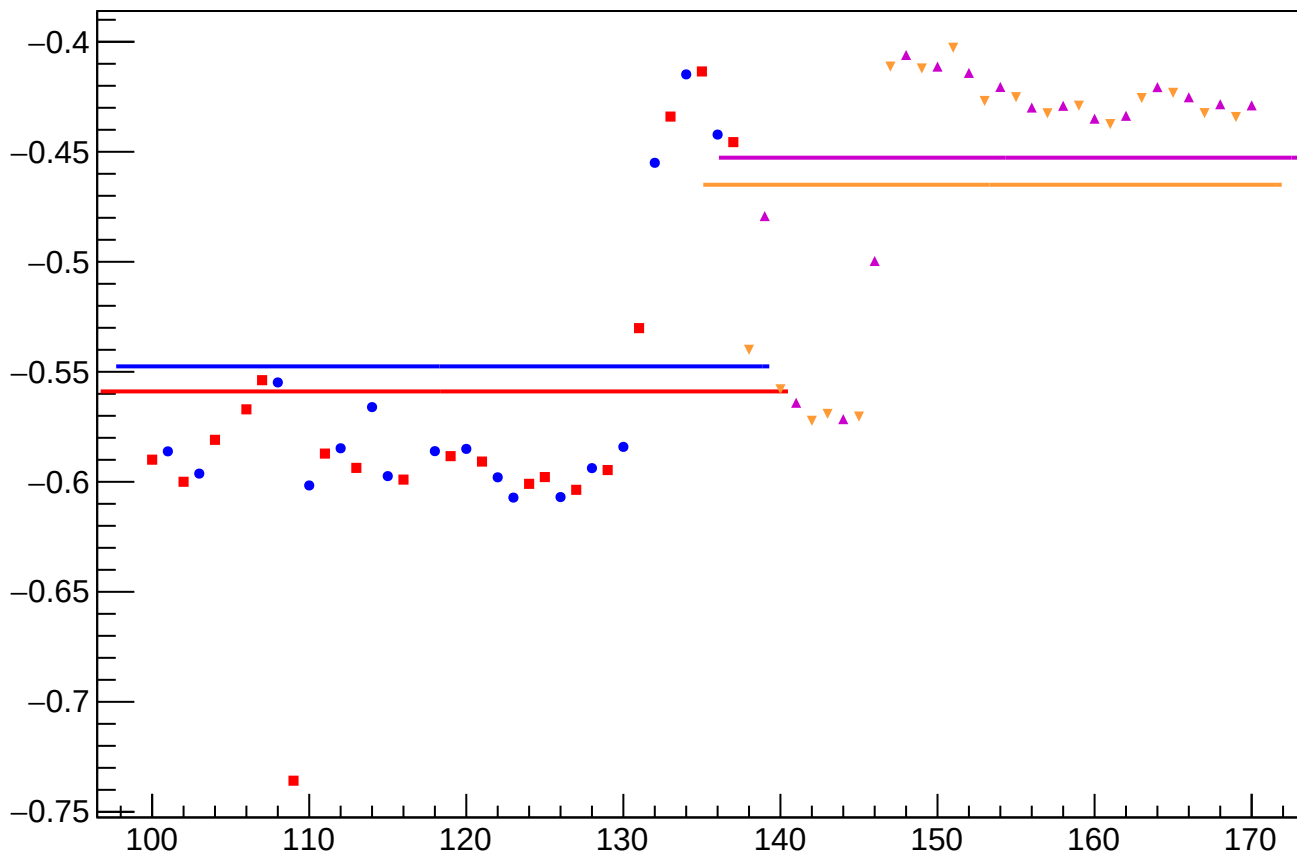
Right: 0.000+/-0.000 χ^2/NDF : 19354868.6/35

In: 0.000+/-0.000 χ^2/NDF : 32190861.2/32

Out: 0.000+/-0.000 χ^2/NDF : 32138434.2/35

All: 0.000+/-0.000 χ^2/NDF : 64330400.1/68

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.548+/-0.000 χ^2/NDF : 48545285.9/16

Left Out: -0.465+/-0.000 χ^2/NDF : 104146388.1/16

Right Out: -0.559+/-0.000 χ^2/NDF : 65330923.3/18

Left In: -0.453+/-0.000 χ^2/NDF : 75112108.5/15

Left: -0.459+/-0.000 χ^2/NDF : 181159057.9/32

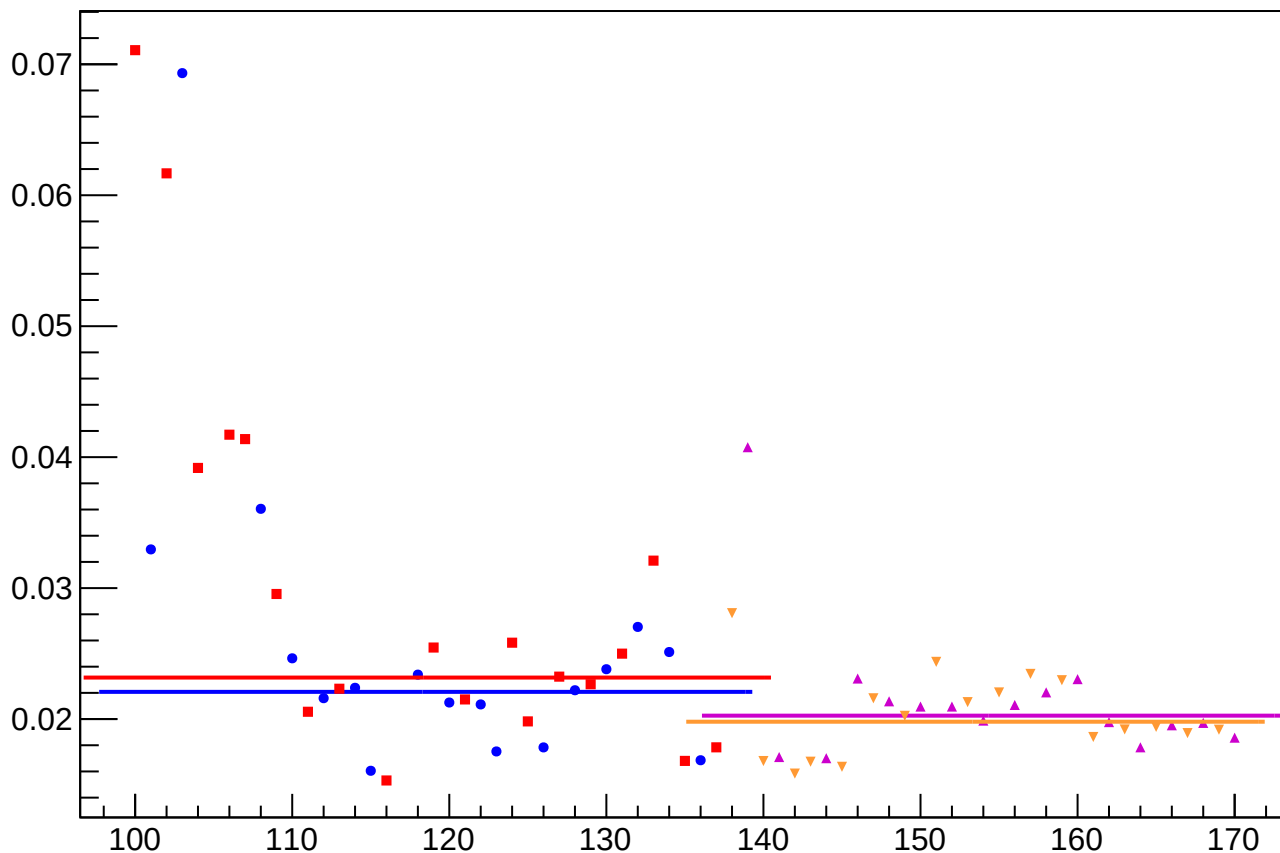
Right: -0.553+/-0.000 χ^2/NDF : 114532950.1/35

In: -0.481+/-0.000 χ^2/NDF : 189105674.3/32

Out: -0.491+/-0.000 χ^2/NDF : 232660848.9/35

All: -0.486+/-0.000 χ^2/NDF : 423599535.7/68

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 954779.5/16

Left Out: 0.020+/-0.000 χ^2/NDF :397969.3/16

Right Out: 0.023+/-0.000 χ^2/NDF : 1156758.3/18

Left In: 0.020+/-0.000 χ^2/NDF :538919.3/15

Left: 0.020+/-0.000 χ^2/NDF : 942273.8/32

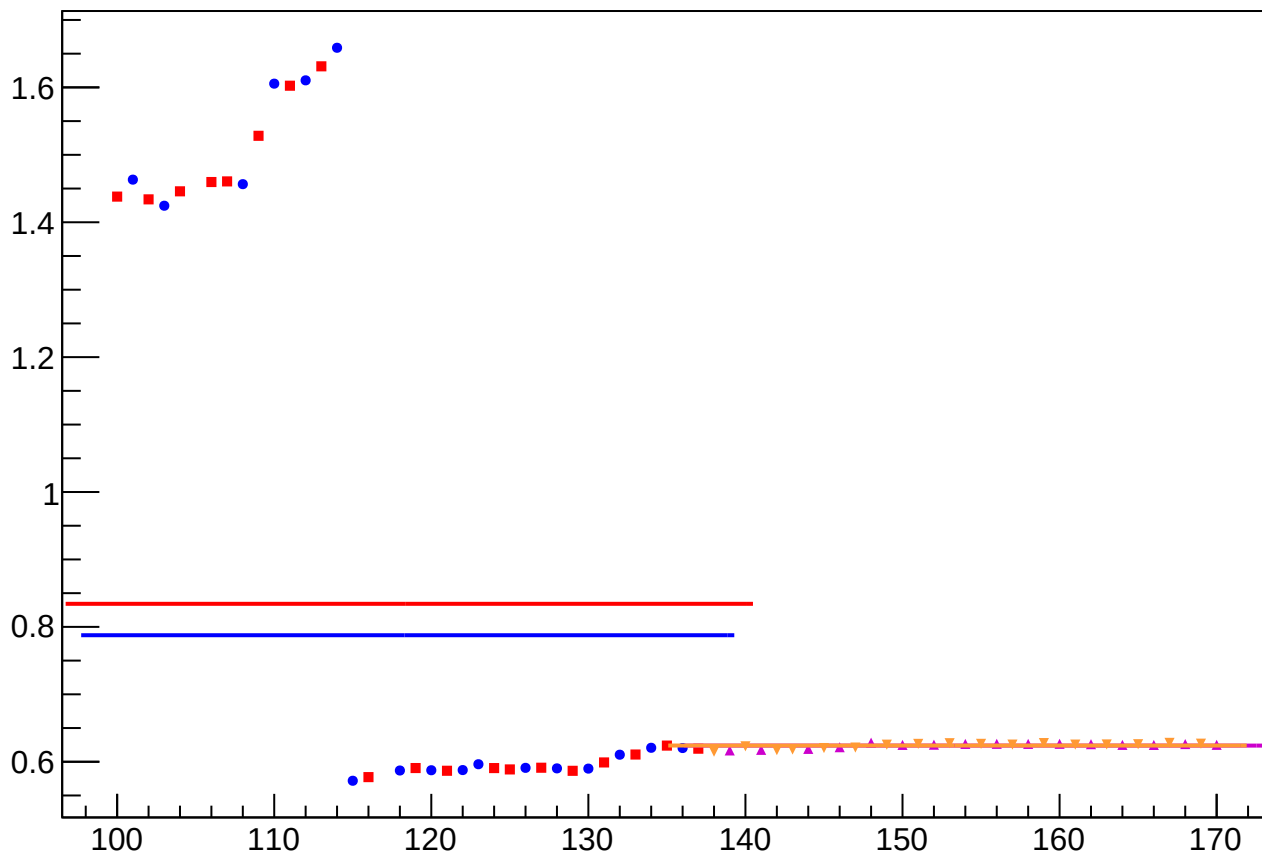
Right: 0.023+/-0.000 χ^2/NDF : 2123609.7/35

In: 0.021+/-0.000 χ^2/NDF :1541719.1/32

Out: 0.021+/-0.000 χ^2/NDF :1717522.7/35

All: 0.021+/-0.000 χ^2/NDF : 3259398.8/68

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.788+/-0.000 χ^2/NDF : 3581400502.4/16

Left Out: 0.624+/-0.000 χ^2/NDF : 1181129.6/16

Right Out: 0.834+/-0.000 χ^2/NDF : 4152115639.4/18

Left In: 0.624+/-0.000 χ^2/NDF : 915502.0/15

Left: 0.624+/-0.000 χ^2/NDF : 2097097.9/32

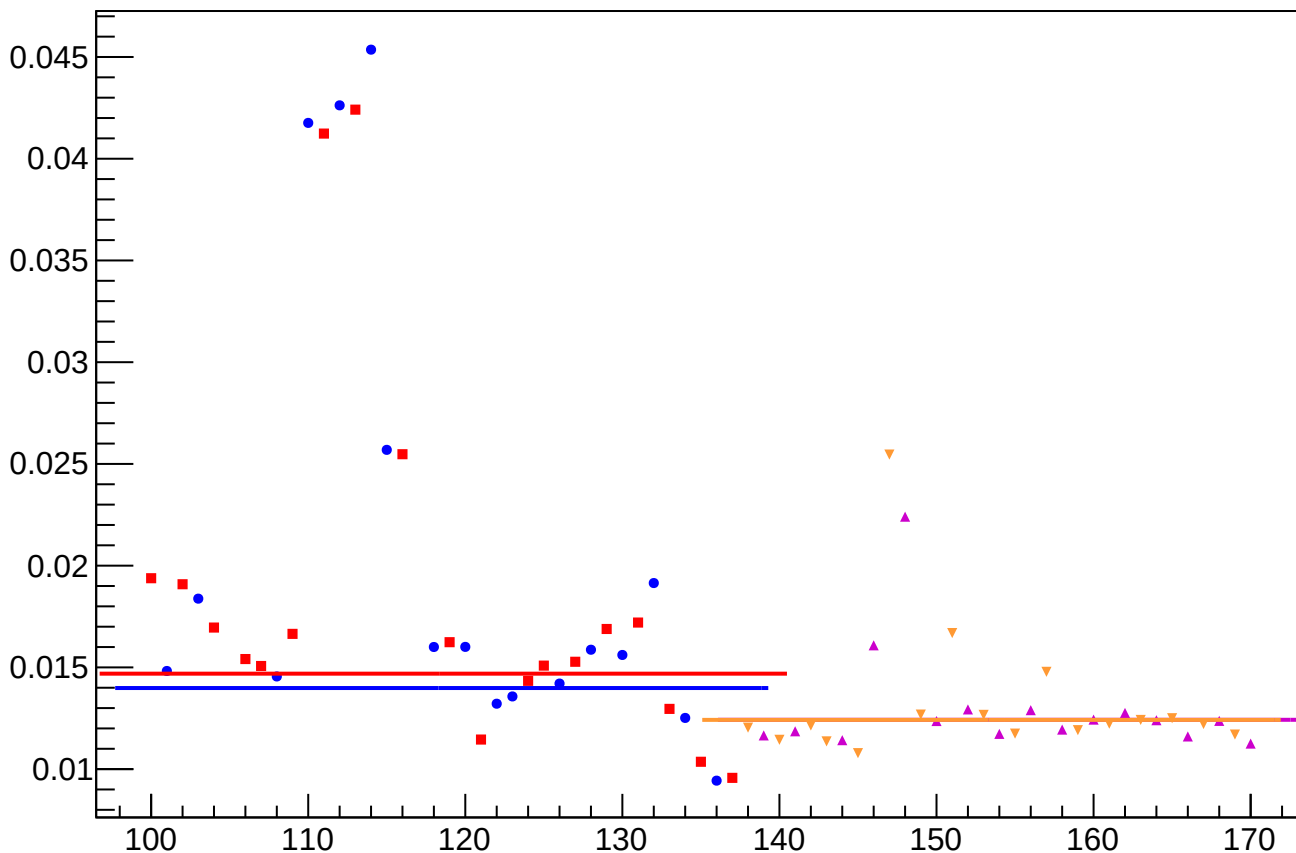
Right: 0.811+/-0.000 χ^2/NDF : 7764167044.9/35

In: 0.668+/-0.000 χ^2/NDF : 4143841179.4/32

Out: 0.679+/-0.000 χ^2/NDF : 5059159431.2/35

All: 0.674+/-0.000 χ^2/NDF : 9209512372.3/68

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1398505.7/16

Left Out: 0.012+/-0.000 χ^2/NDF :595526.8/16

Right Out: 0.015+/-0.000 χ^2/NDF : 1258511.3/18

Left In: 0.012+/-0.000 χ^2/NDF :435977.7/15

Left: 0.012+/-0.000 χ^2/NDF : 1031505.6/32

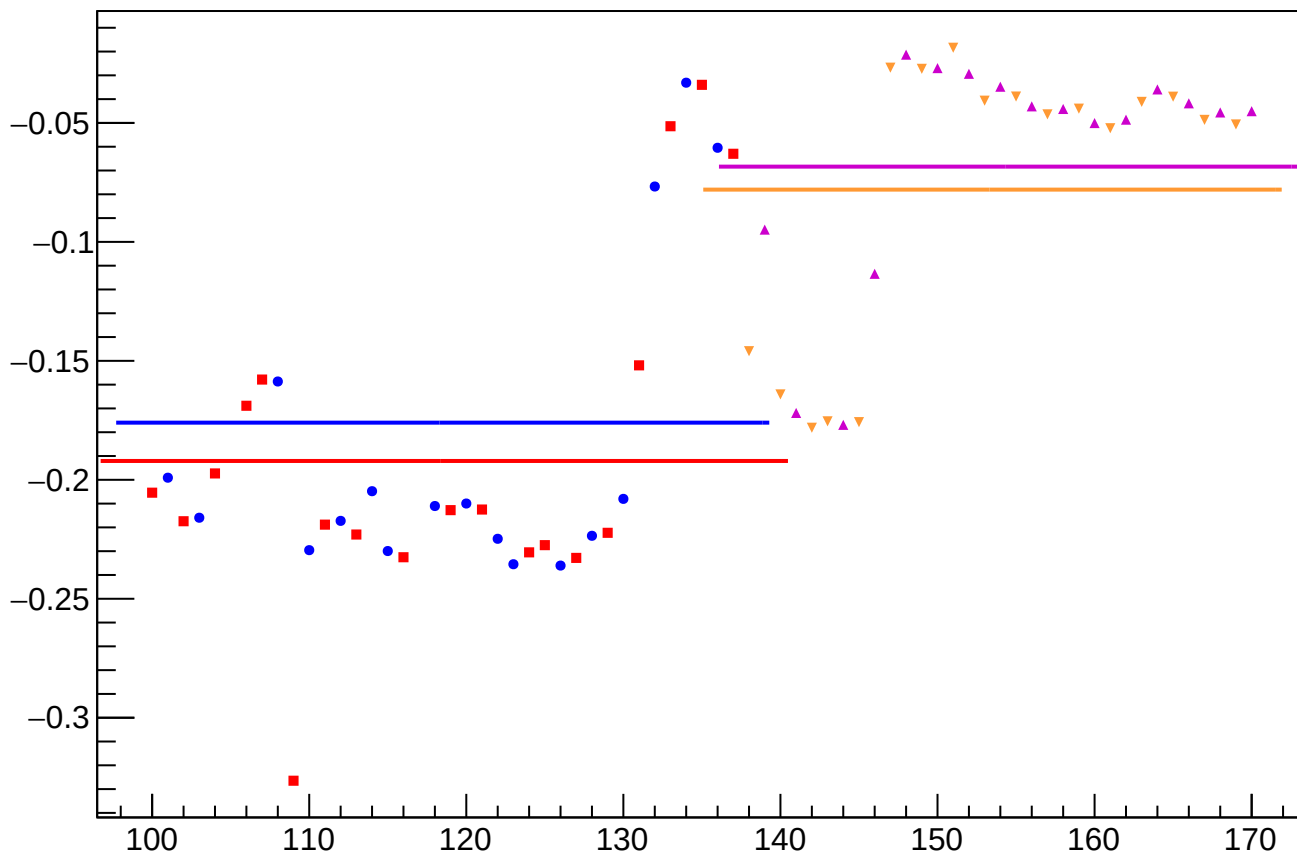
Right: 0.014+/-0.000 χ^2/NDF : 2671110.0/35

In: 0.013+/-0.000 χ^2/NDF :1936699.1/32

Out: 0.013+/-0.000 χ^2/NDF :2065693.6/35

All: 0.013+/-0.000 χ^2/NDF : 4005495.4/68

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.176+/-0.000 χ^2/NDF : 70121069.1/16

Left Out: -0.078+/-0.000 χ^2/NDF : 99263014.3/16

Right Out: -0.192+/-0.000 χ^2/NDF : 83253954.4/18

Left In: -0.068+/-0.000 χ^2/NDF : 75493045.7/15

Left: -0.073+/-0.000 χ^2/NDF : 176013112.5/32

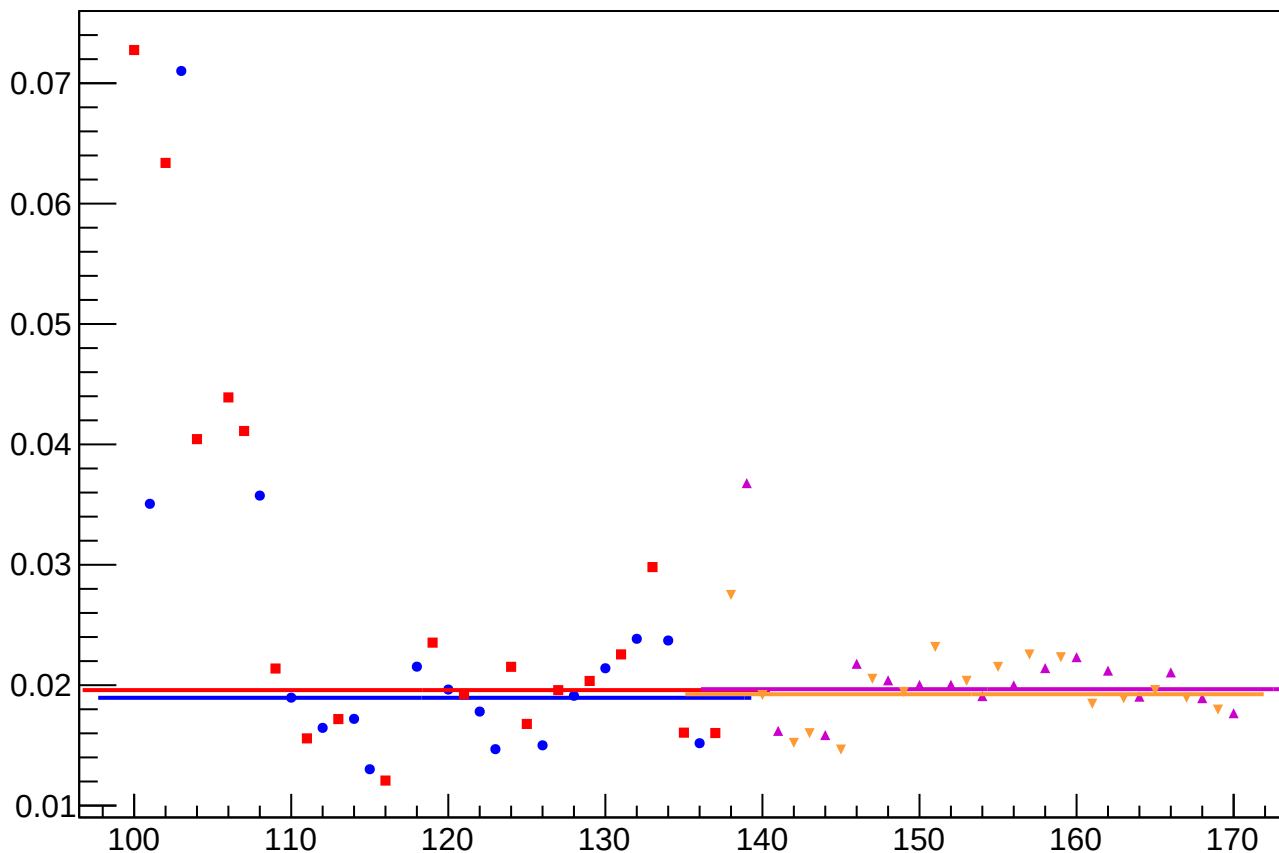
Right: -0.184+/-0.000 χ^2/NDF : 155143425.4/35

In: -0.105+/-0.000 χ^2/NDF : 250235938.7/32

Out: -0.115+/-0.000 χ^2/NDF : 300513054.0/35

All: -0.110+/-0.000 χ^2/NDF : 552802882.8/68

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1203275.7/16

Left Out: 0.019+/-0.000 χ^2/NDF : 425329.1/16

Right Out: 0.020+/-0.000 χ^2/NDF : 1455327.3/18

Left In: 0.020+/-0.000 χ^2/NDF : 515475.1/15

Left: 0.019+/-0.000 χ^2/NDF : 945557.0/32

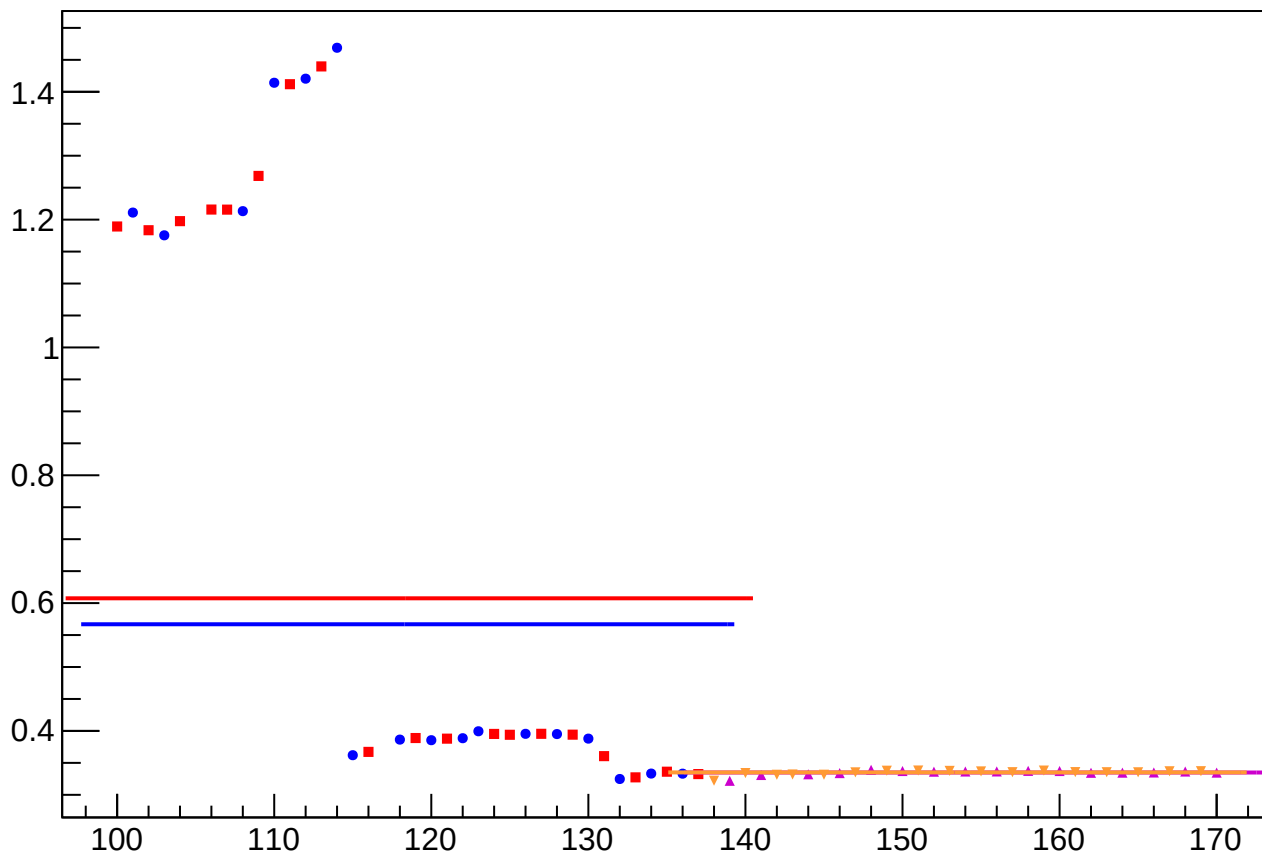
Right: 0.019+/-0.000 χ^2/NDF : 2664188.0/35

In: 0.019+/-0.000 χ^2/NDF : 1728024.2/32

Out: 0.019+/-0.000 χ^2/NDF : 1882799.1/35

All: 0.019+/-0.000 χ^2/NDF : 3610973.4/68

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.567 $\pm$ 0.000 χ^2 /NDF: 5016913731.3/16

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1123874.4/16

Right Out: 0.607 $\pm$ 0.000 χ^2 /NDF: 5505226431.3/18

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1168867.8/15

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2294074.4/32

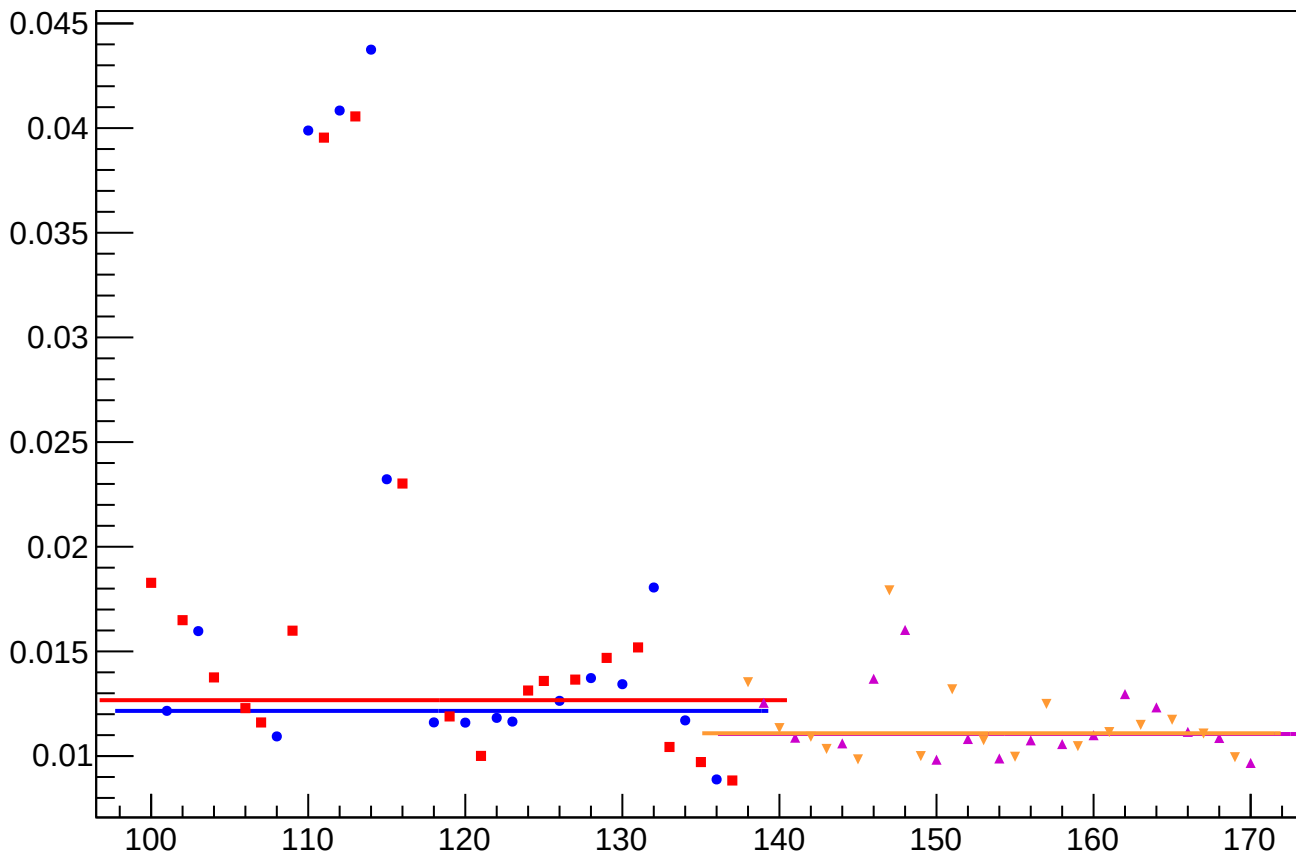
Right: 0.587 $\pm$ 0.000 χ^2 /NDF: 10552855690.4/35

In: 0.400 $\pm$ 0.000 χ^2 /NDF:6485580905.4/32

Out: 0.409 $\pm$ 0.000 χ^2 /NDF:7484983628.5/35

All: 0.405 $\pm$ 0.000 χ^2 /NDF: 13976509490.0/6

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 1307948.2/16

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 421307.8/16

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 1267219.4/18

Left In: 0.011 $\pm$ 0.000 χ^2/NDF : 357636.1/15

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 779066.9/32

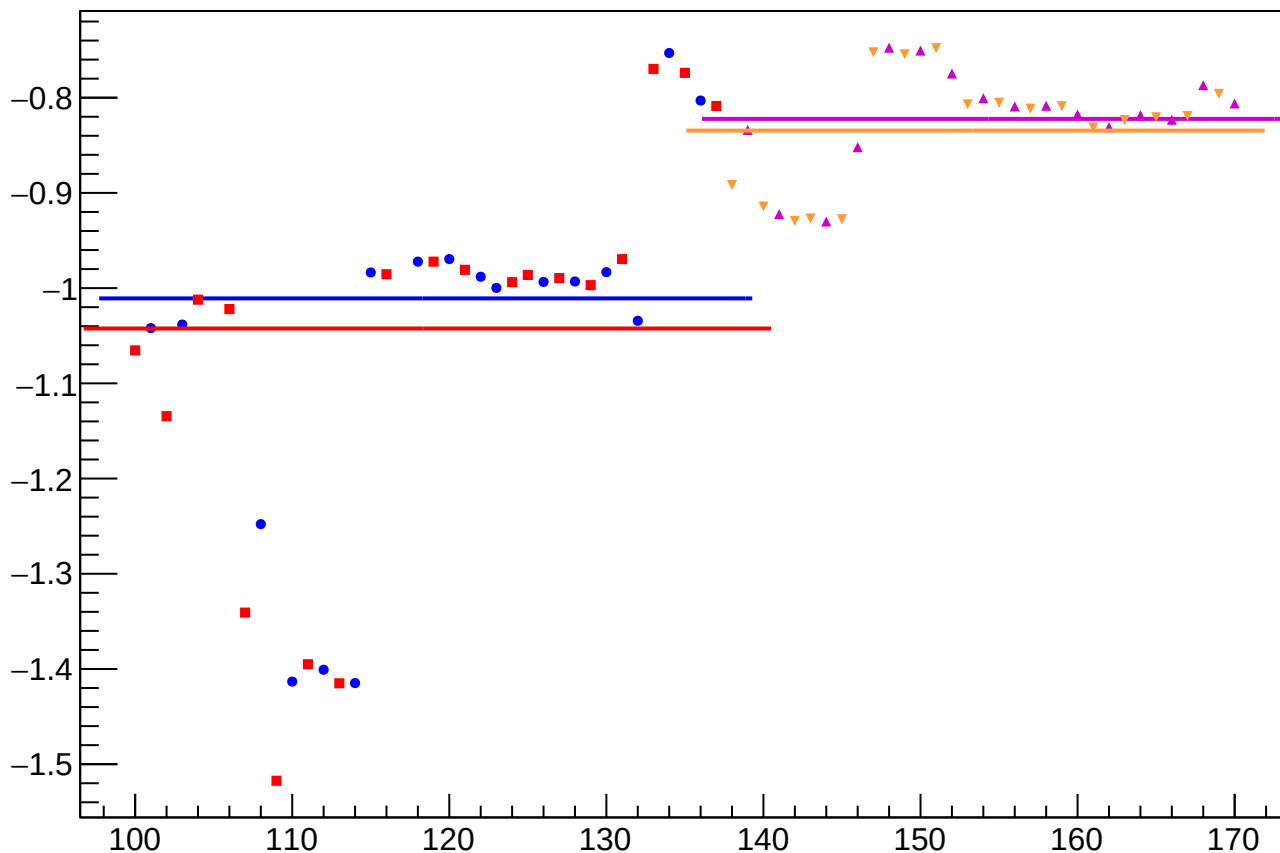
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 2584926.4/35

In: 0.011 $\pm$ 0.000 χ^2/NDF : 1732083.4/32

Out: 0.012 $\pm$ 0.000 χ^2/NDF : 1821727.0/35

All: 0.011 $\pm$ 0.000 χ^2/NDF : 3557123.5/68

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.011+/-0.000 χ^2/NDF : 387140230.3/16

Left Out: -0.835+/-0.000 χ^2/NDF : 96577670.7/16

Right Out: -1.042+/-0.000 χ^2/NDF : 528958824.5/18

Left In: -0.822+/-0.000 χ^2/NDF : 73593016.2/15

Left: -0.829+/-0.000 χ^2/NDF : 172159389.6/32

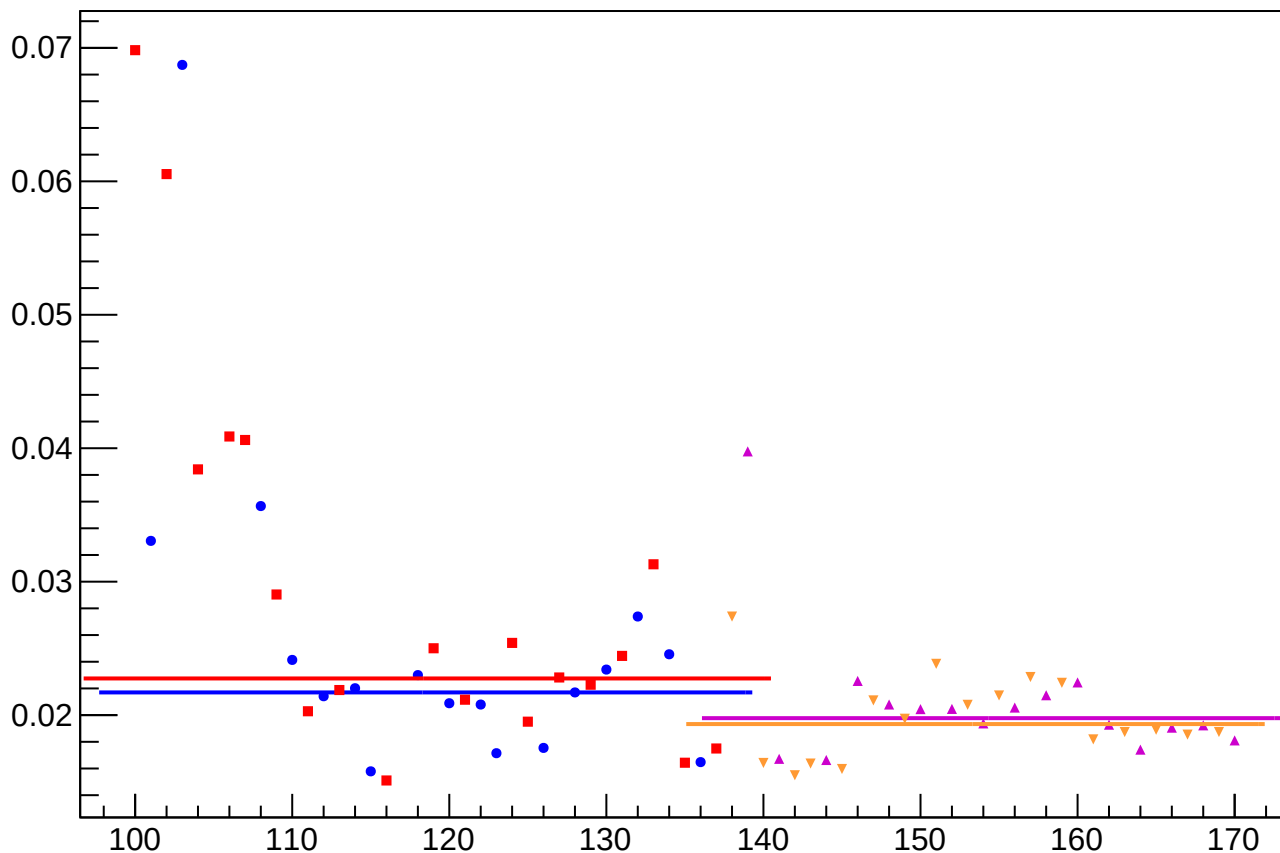
Right: -1.026+/-0.000 χ^2/NDF : 921337924.7/35

In: -0.878+/-0.000 χ^2/NDF : 729155404.9/32

Out: -0.892+/-0.000 χ^2/NDF : 947040097.0/35

All: -0.885+/-0.000 χ^2/NDF : 1679834572.9/6

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 979293.5/16

Left Out: 0.019+/-0.000 χ^2/NDF : 395800.6/16

Right Out: 0.023+/-0.000 χ^2/NDF : 1152332.6/18

Left In: 0.020+/-0.000 χ^2/NDF : 536244.9/15

Left: 0.020+/-0.000 χ^2/NDF : 937220.3/32

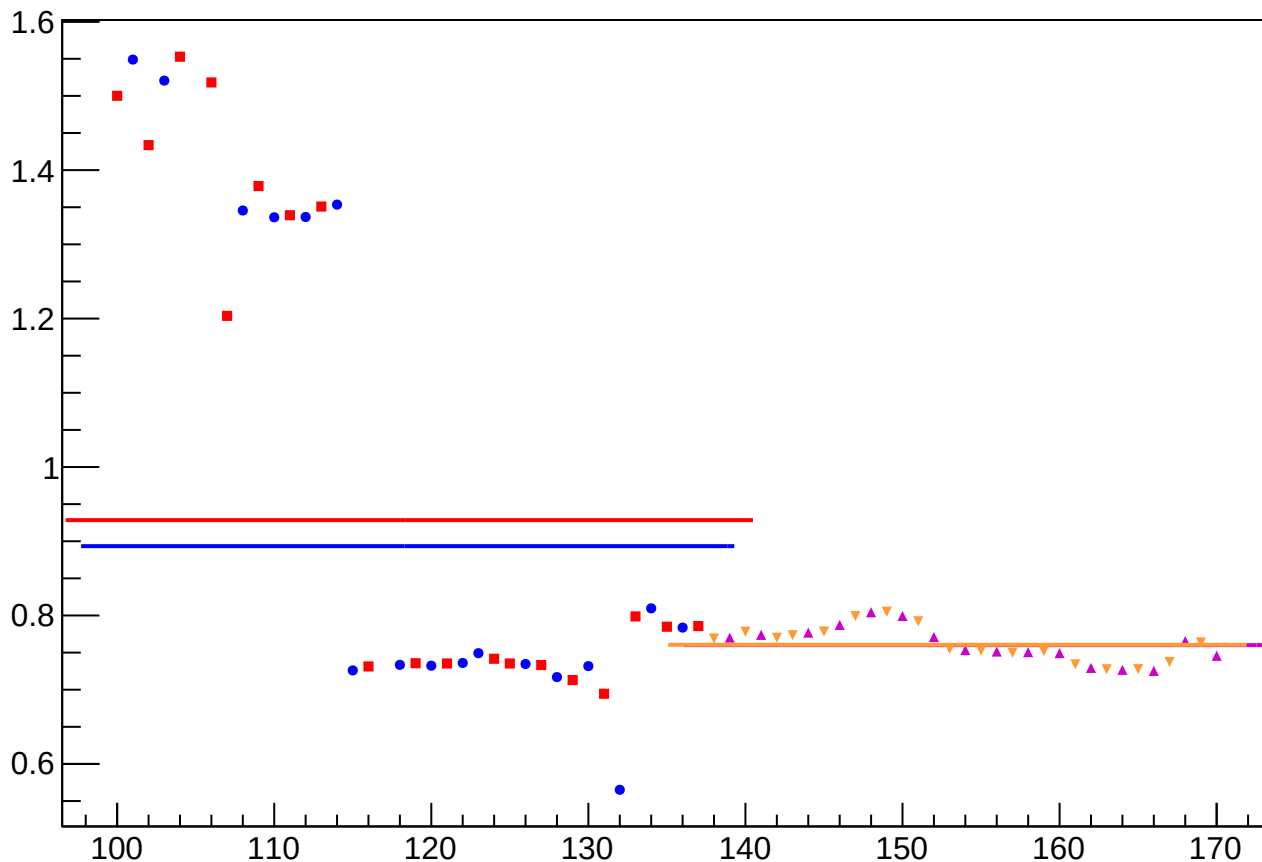
Right: 0.022+/-0.000 χ^2/NDF : 2143091.8/35

In: 0.020+/-0.000 χ^2/NDF : 1571706.5/32

Out: 0.020+/-0.000 χ^2/NDF : 1721941.7/35

All: 0.020+/-0.000 χ^2/NDF : 3293828.2/68

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.893 $\pm$ 0.000 χ^2/NDF : 2408017556.1/16

Left Out: 0.761 $\pm$ 0.000 χ^2/NDF :36504750.3/16

Right Out: 0.928 $\pm$ 0.000 χ^2/NDF : 2435640156.0/18

Left In: 0.760 $\pm$ 0.000 χ^2/NDF :33992764.2/15

Left: 0.760 $\pm$ 0.000 χ^2/NDF : 70506119.0/32

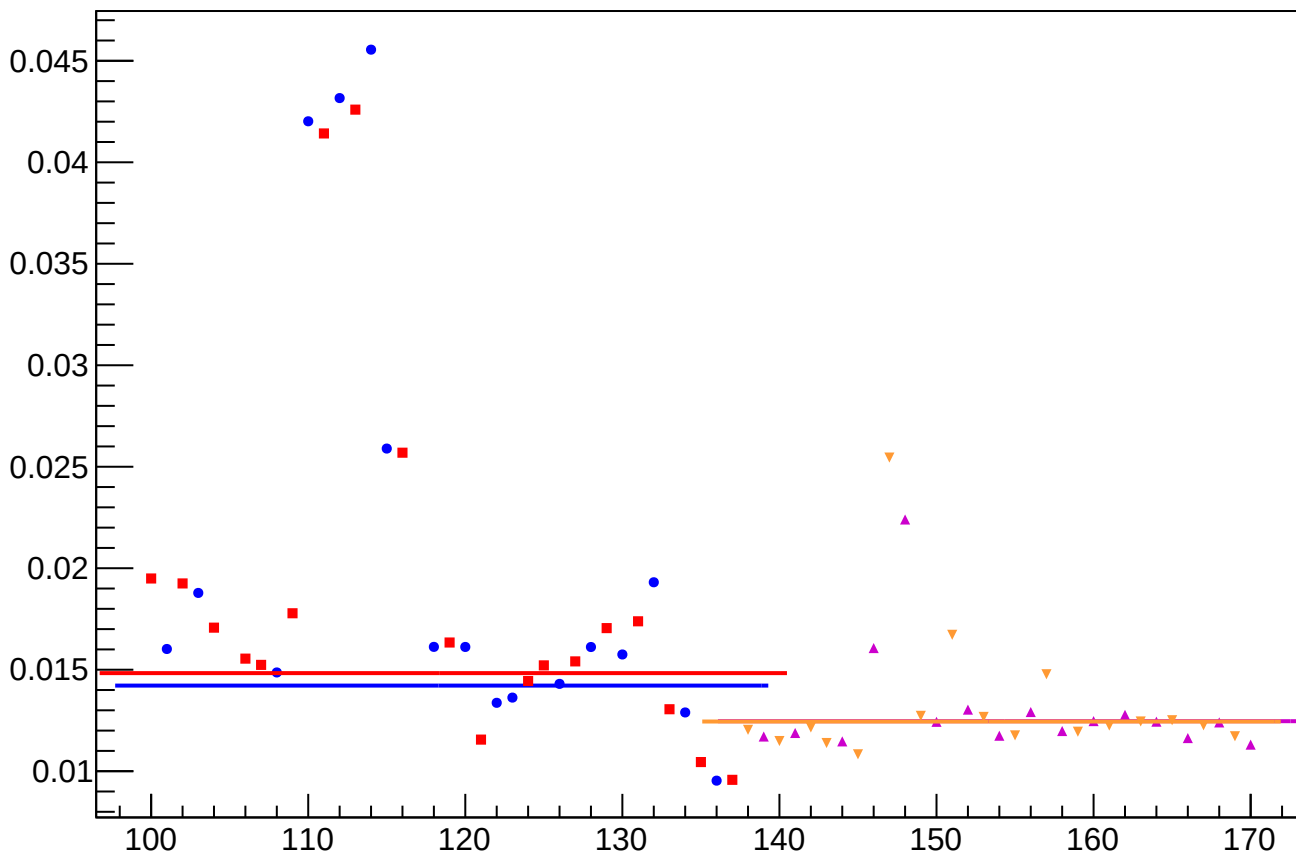
Right: 0.911 $\pm$ 0.000 χ^2/NDF : 4860512064.2/35

In: 0.795 $\pm$ 0.000 χ^2/NDF :2803727555.5/32

Out: 0.804 $\pm$ 0.000 χ^2/NDF :3040333725.2/35

All: 0.800 $\pm$ 0.000 χ^2/NDF : 5848110377.6/68

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1409594.2/16

Left Out: 0.012+/-0.000 χ^2/NDF : 590938.3/16

Right Out: 0.015+/-0.000 χ^2/NDF : 1269559.2/18

Left In: 0.012+/-0.000 χ^2/NDF : 431126.6/15

Left: 0.012+/-0.000 χ^2/NDF : 1022084.7/32

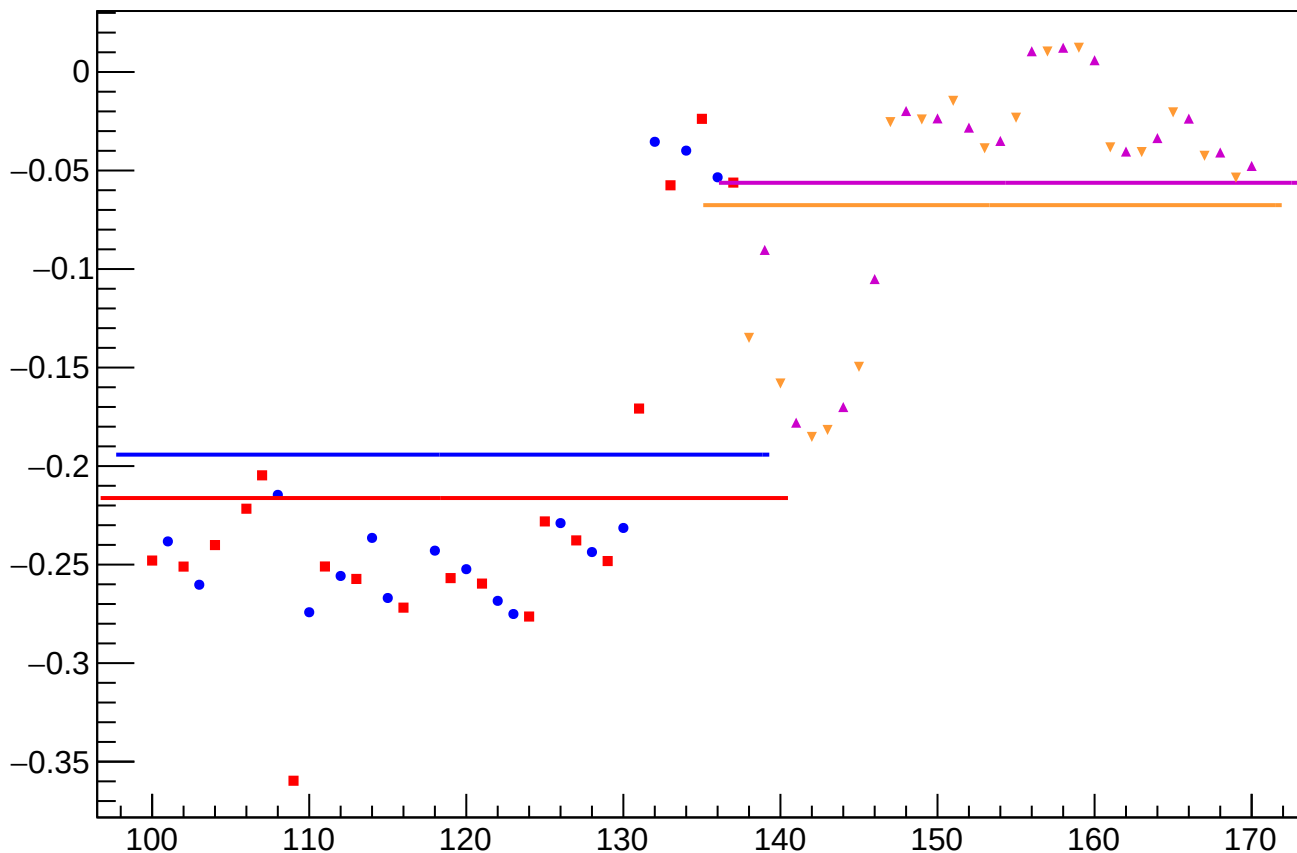
Right: 0.015+/-0.000 χ^2/NDF : 2689500.8/35

In: 0.013+/-0.000 χ^2/NDF : 1965896.0/32

Out: 0.013+/-0.000 χ^2/NDF : 2089567.2/35

All: 0.013+/-0.000 χ^2/NDF : 4057484.3/68

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.194 ± 0.000 χ^2/NDF : 108425823.4/16

Left Out: -0.068 ± 0.000 χ^2/NDF : 114994694.8/16

Right Out: -0.216 ± 0.000 χ^2/NDF : 111036295.0/18

Left In: -0.056 ± 0.000 χ^2/NDF : 97454047.3/15

Left: -0.062 ± 0.000 χ^2/NDF : 214184985.8/32

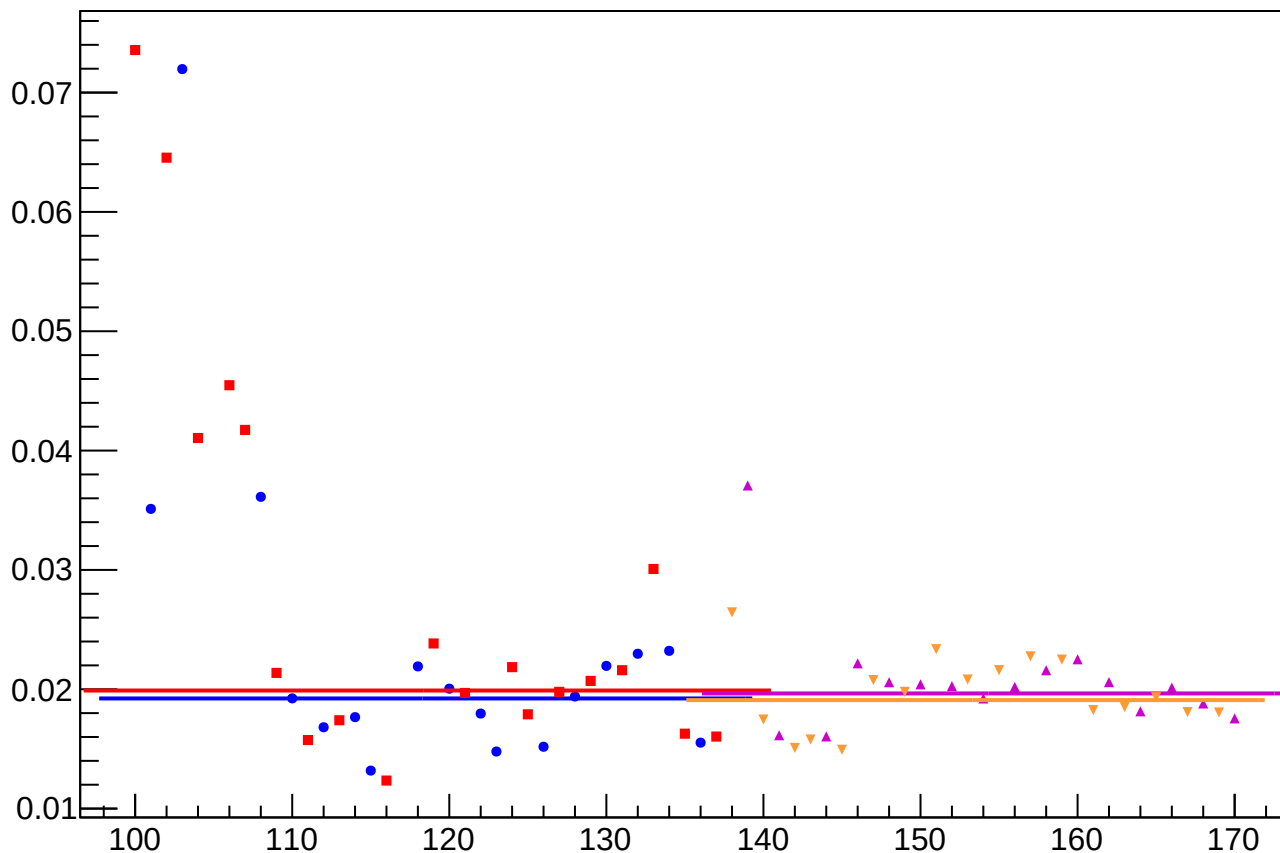
Right: -0.205 ± 0.000 χ^2/NDF : 222671892.3/35

In: -0.103 ± 0.000 χ^2/NDF : 374500896.6/32

Out: -0.115 ± 0.000 χ^2/NDF : 422740517.2/35

All: -0.109 ± 0.000 χ^2/NDF : 800139816.0/68

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1174577.3/16

Left Out: 0.019+/-0.000 χ^2/NDF : 430708.6/16

Right Out: 0.020+/-0.000 χ^2/NDF : 1444442.2/18

Left In: 0.020+/-0.000 χ^2/NDF : 526575.5/15

Left: 0.019+/-0.000 χ^2/NDF : 965722.9/32

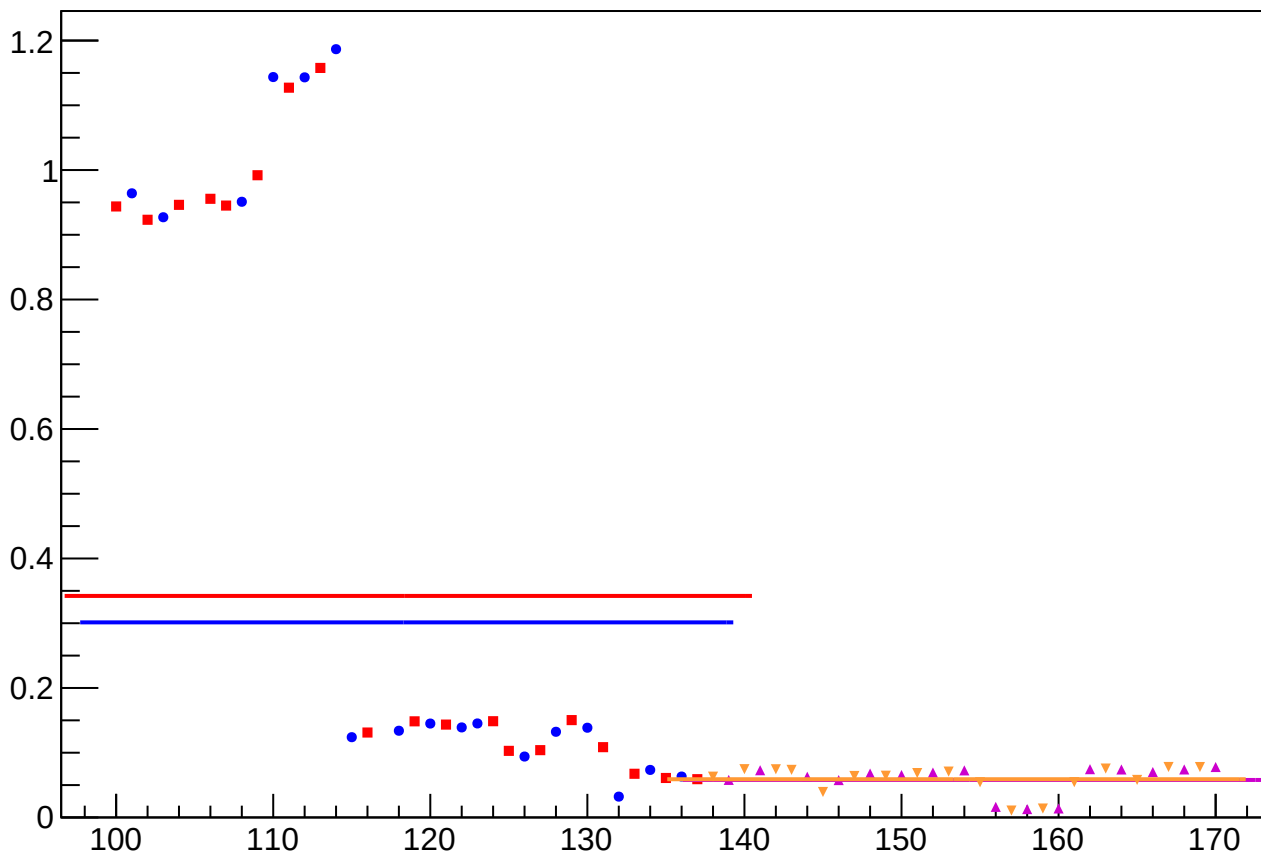
Right: 0.020+/-0.000 χ^2/NDF : 2624881.7/35

In: 0.020+/-0.000 χ^2/NDF : 1704291.7/32

Out: 0.019+/-0.000 χ^2/NDF : 1886651.5/35

All: 0.019+/-0.000 χ^2/NDF : 3591975.6/68

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.301+/-0.000 χ^2/NDF : 5154791073.8/16

Left Out: 0.059+/-0.000 χ^2/NDF : 43471606.2/16

Right Out: 0.342+/-0.000 χ^2/NDF : 5442717599.3/18

Left In: 0.058+/-0.000 χ^2/NDF : 54807583.3/15

Left: 0.058+/-0.000 χ^2/NDF : 98342639.5/32

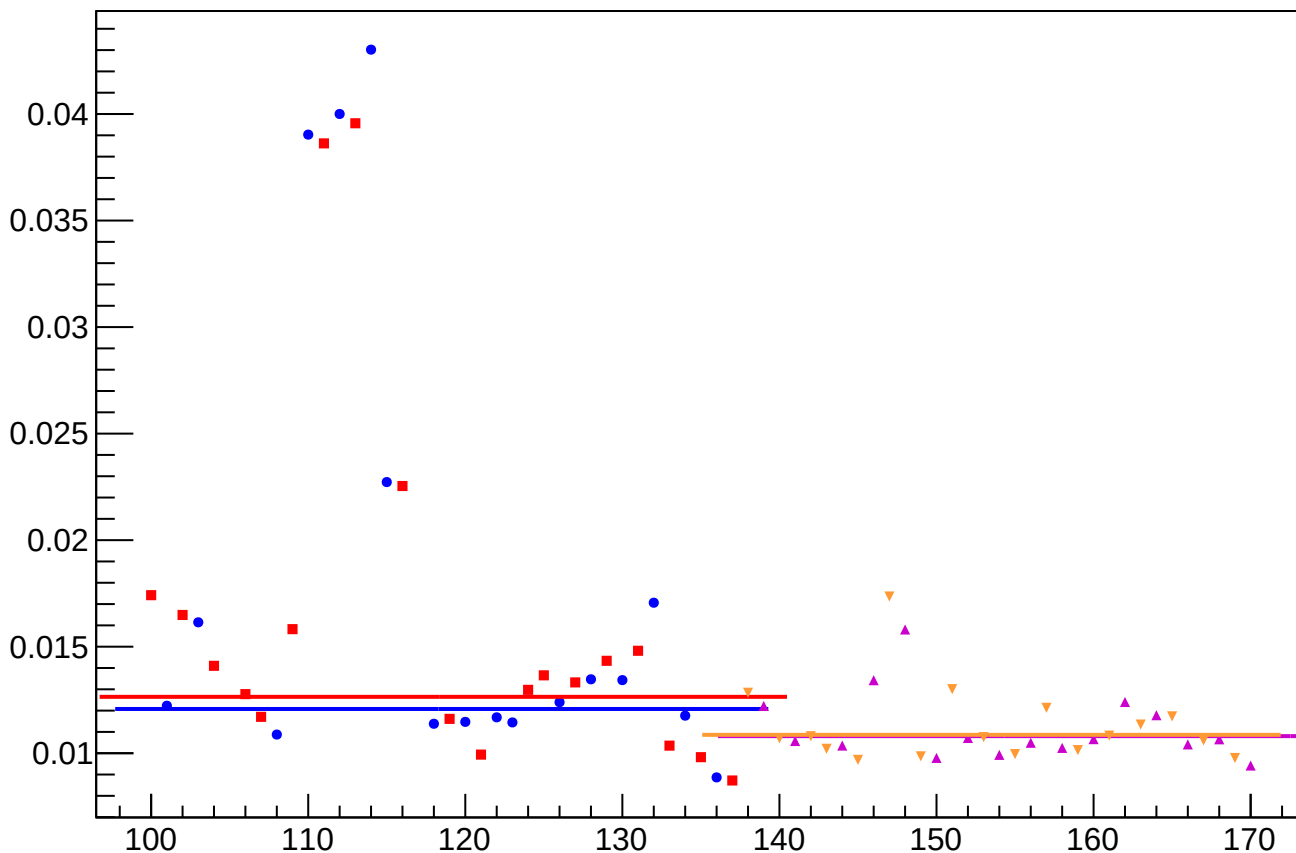
Right: 0.321+/-0.000 χ^2/NDF : 10628899850.1/35

In: 0.125+/-0.000 χ^2/NDF : 6862823379.0/32

Out: 0.134+/-0.000 χ^2/NDF : 7655178959.9/35

All: 0.129+/-0.000 χ^2/NDF : 14524118110.2/66

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1280342.2/16

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:392825.6/16

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1236084.9/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:339338.2/15

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 732539.5/32

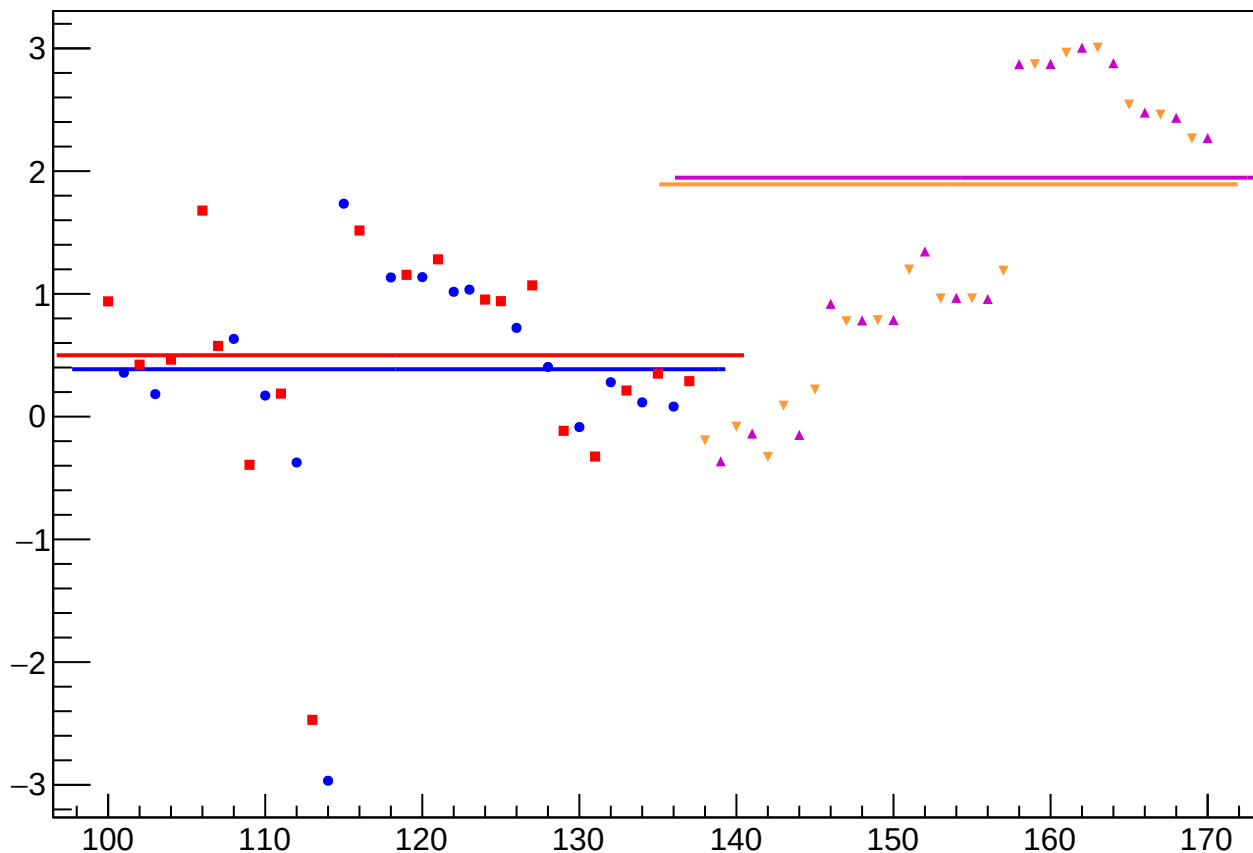
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2528646.1/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1710324.9/32

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1801075.1/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3516107.2/68

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.386+/-0.000 χ^2/NDF : 246380221.7/16

Left Out: 1.892+/-0.000 χ^2/NDF : 26768076057.4/16

Right Out: 0.500+/-0.000 χ^2/NDF : 983386658.7/18

Left In: 1.947+/-0.000 χ^2/NDF : 28105225477.4/15

Left: 1.921+/-0.000 χ^2/NDF : 54921517668.3/32

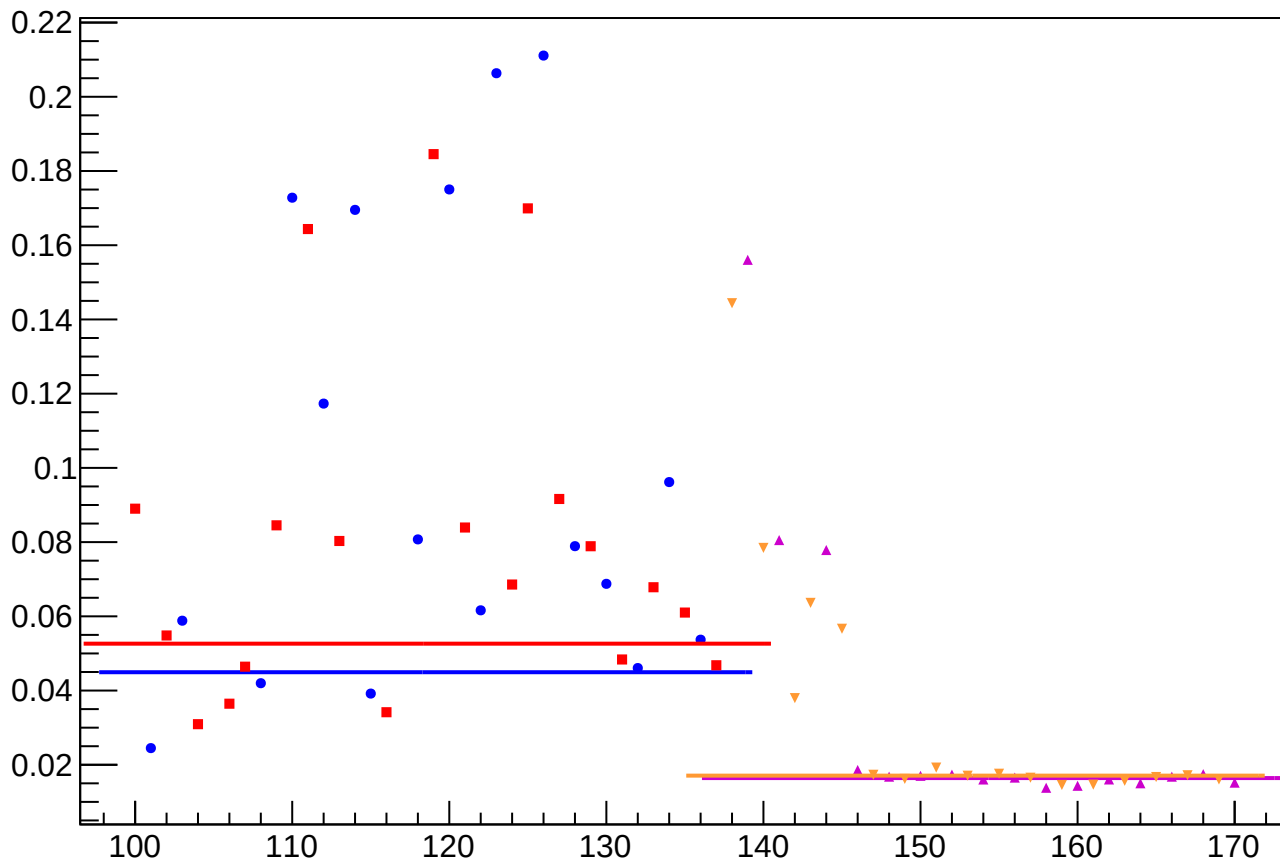
Right: 0.439+/-0.000 χ^2/NDF : 1240216918.3/35

In: 1.870+/-0.000 χ^2/NDF : 32399019918.6/32

Out: 1.829+/-0.000 χ^2/NDF : 30503852778.1/35

All: 1.851+/-0.000 χ^2/NDF : 62932693412.7/66

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.045+/-0.000 χ^2/NDF : 2788348.6/16

Left Out: 0.017+/-0.000 χ^2/NDF :2739757.7/16

Right Out: 0.053+/-0.000 χ^2/NDF : 2191752.0/18

Left In: 0.016+/-0.000 χ^2/NDF :2416699.9/15

Left: 0.017+/-0.000 χ^2/NDF : 5170499.4/32

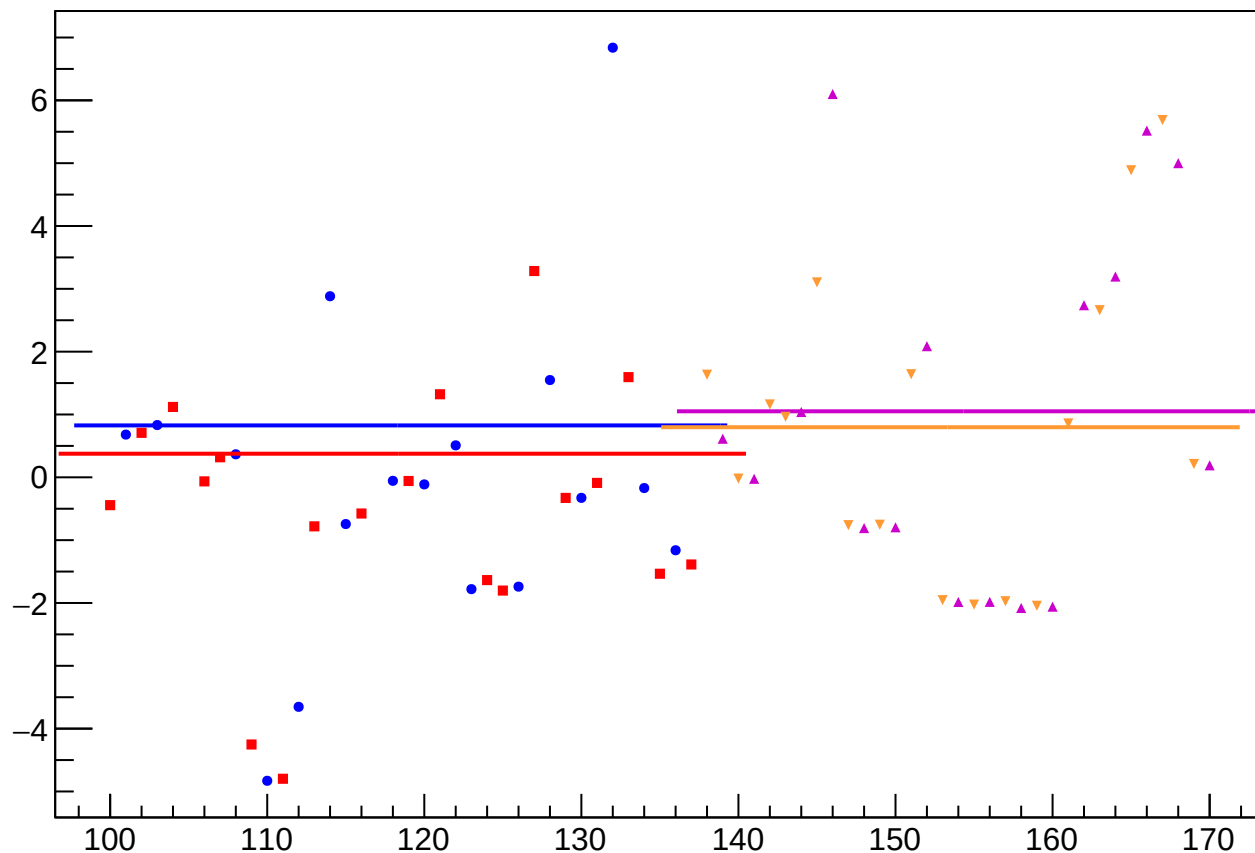
Right: 0.048+/-0.000 χ^2/NDF : 5075265.3/35

In: 0.018+/-0.000 χ^2/NDF :7909042.9/32

Out: 0.019+/-0.000 χ^2/NDF :8523395.2/35

All: 0.018+/-0.000 χ^2/NDF : 16459331.3/68

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.826 $\pm$ 0.000

χ^2/NDF : 10945455664.9/16

Left: 0.929 $\pm$ 0.000 χ^2/NDF : 843797445289.2/32

Right: 0.614 $\pm$ 0.000 χ^2/NDF : 16267855103.5/35

Left Out: 0.797 $\pm$ 0.000

χ^2/NDF : 363203820375.8/16

In: 1.036 $\pm$ 0.000 χ^2/NDF : 490040255498.9/32

Right Out: 0.376 $\pm$ 0.000

χ^2/NDF : 4947158634.2/18

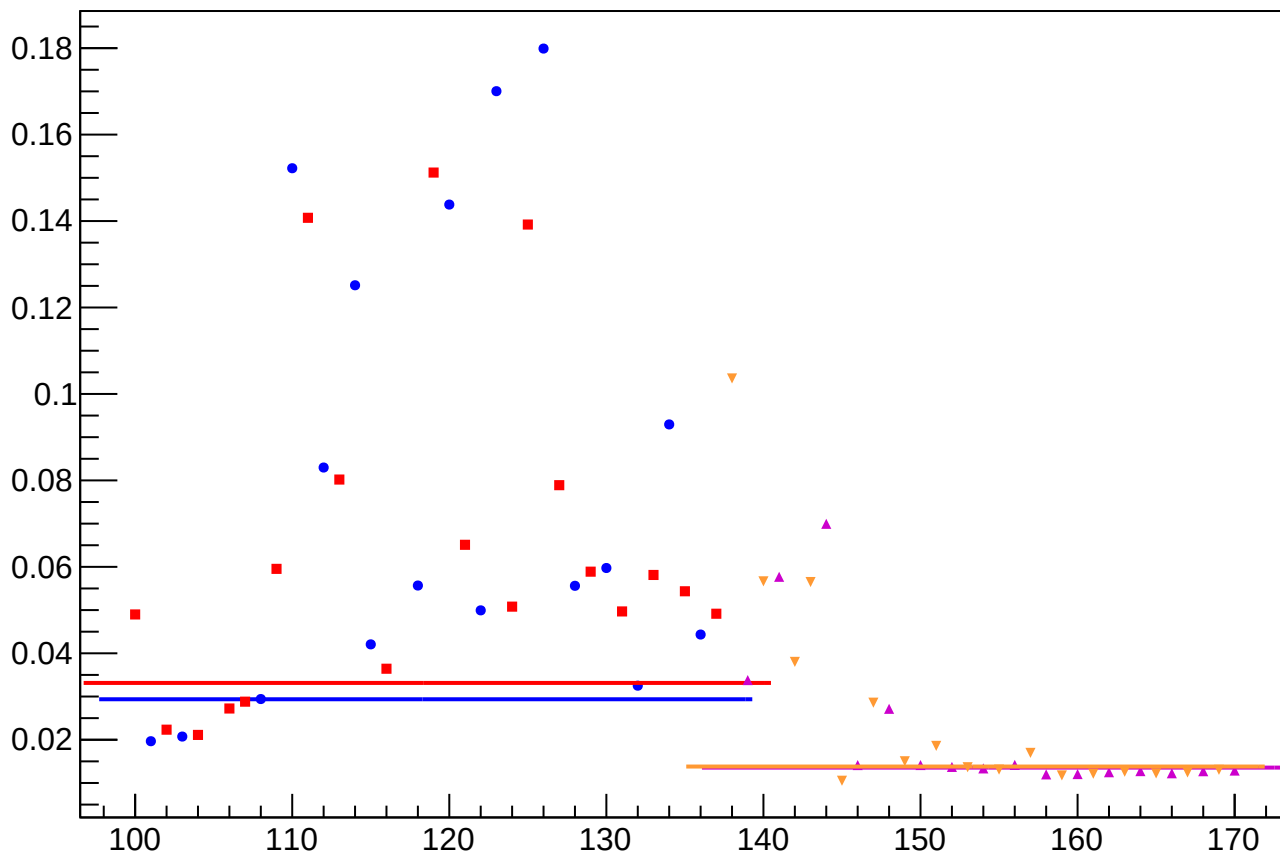
Out: 0.770 $\pm$ 0.000 χ^2/NDF : 368731670404.8/35

Left In: 1.051 $\pm$ 0.000

χ^2/NDF : 478909682520.4/15

All: 0.908 $\pm$ 0.000 χ^2/NDF : 860751696351.0

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 2987169.5/16

Left Out: 0.014+/-0.000 χ^2/NDF :2841340.0/16

Right Out: 0.033+/-0.000 χ^2/NDF : 3099105.0/18

Left In: 0.014+/-0.000 χ^2/NDF :1894773.4/15

Left: 0.014+/-0.000 χ^2/NDF : 4739330.4/32

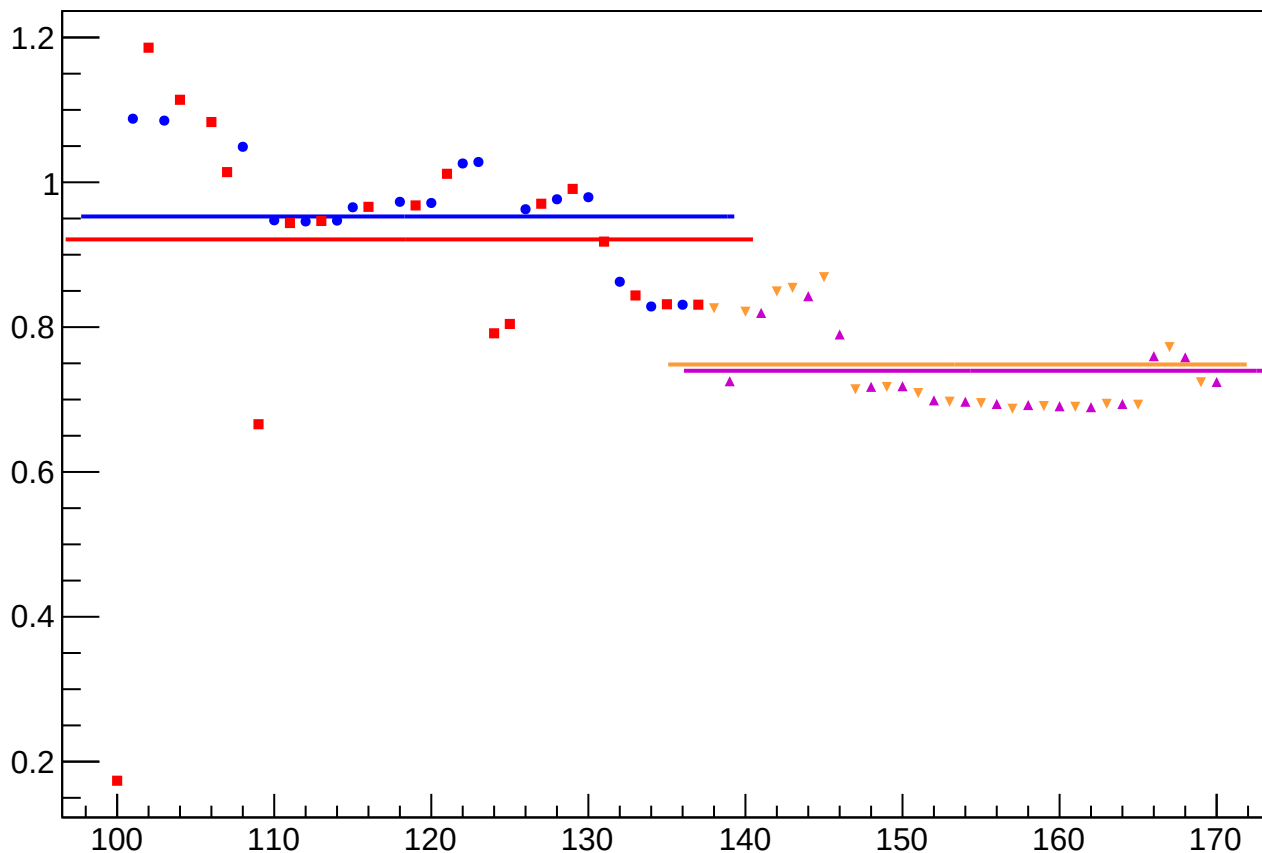
Right: 0.031+/-0.000 χ^2/NDF : 6139085.6/35

In: 0.015+/-0.000 χ^2/NDF :6716361.1/32

Out: 0.015+/-0.000 χ^2/NDF :8385024.4/35

All: 0.015+/-0.000 χ^2/NDF : 15111985.2/68

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.953 $\pm$ 0.000 χ^2 /NDF: 175750243.6/16

Left Out: 0.748 $\pm$ 0.000 χ^2 /NDF:262863346.1/16

Right Out: 0.921 $\pm$ 0.000 χ^2 /NDF: 374151585.5/18

Left In: 0.740 $\pm$ 0.000 χ^2 /NDF:157814928.8/15

Left: 0.744 $\pm$ 0.000 χ^2 /NDF: 422919393.6/32

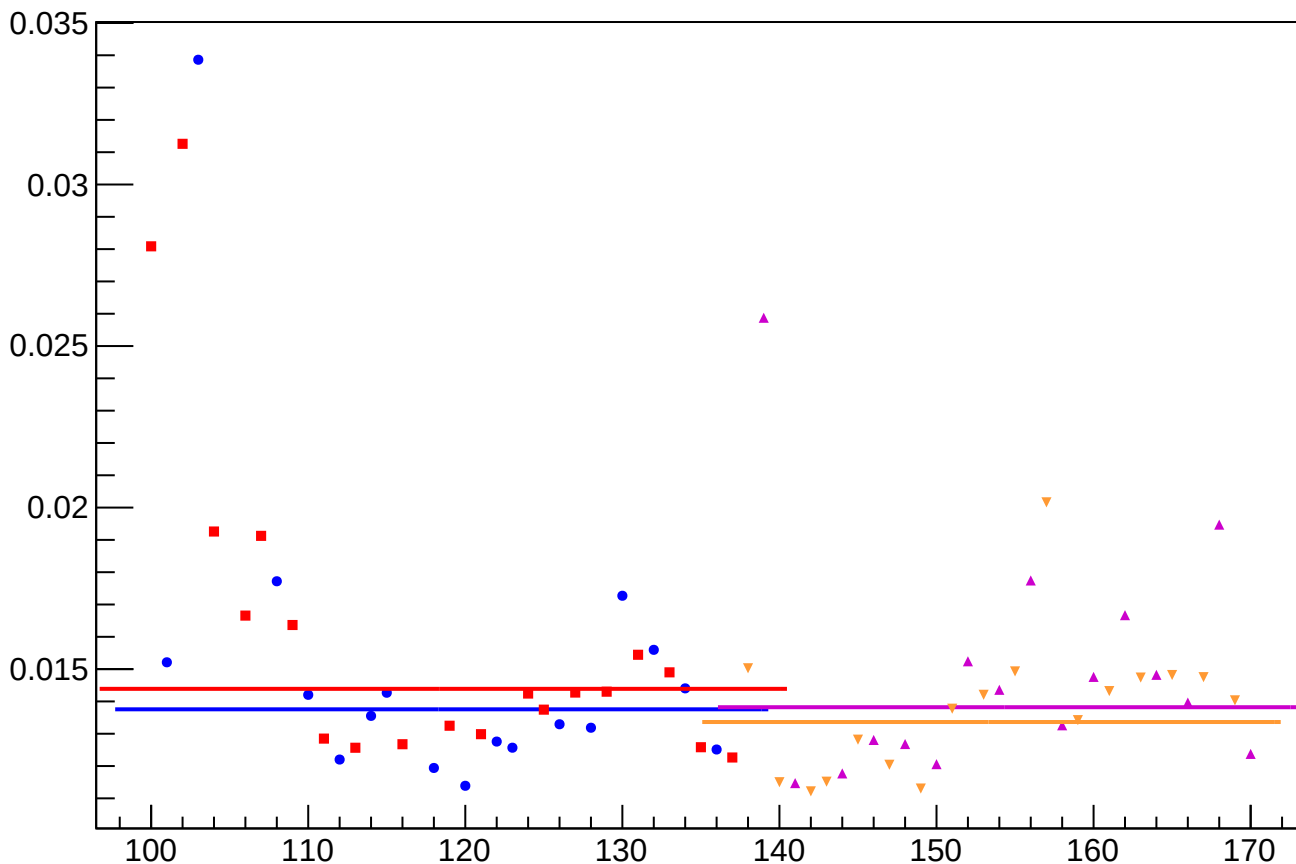
Right: 0.937 $\pm$ 0.000 χ^2 /NDF: 564889848.1/35

In: 0.813 $\pm$ 0.000 χ^2 /NDF:1237112808.2/32

Out: 0.804 $\pm$ 0.000 χ^2 /NDF:1230031076.7/35

All: 0.809 $\pm$ 0.000 χ^2 /NDF: 2470978013.8/68

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 538469.4/16

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:373294.1/16

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 503813.0/18

Left In: 0.014 $\pm$ 0.000 χ^2 /NDF:750732.4/15

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 1136512.5/32

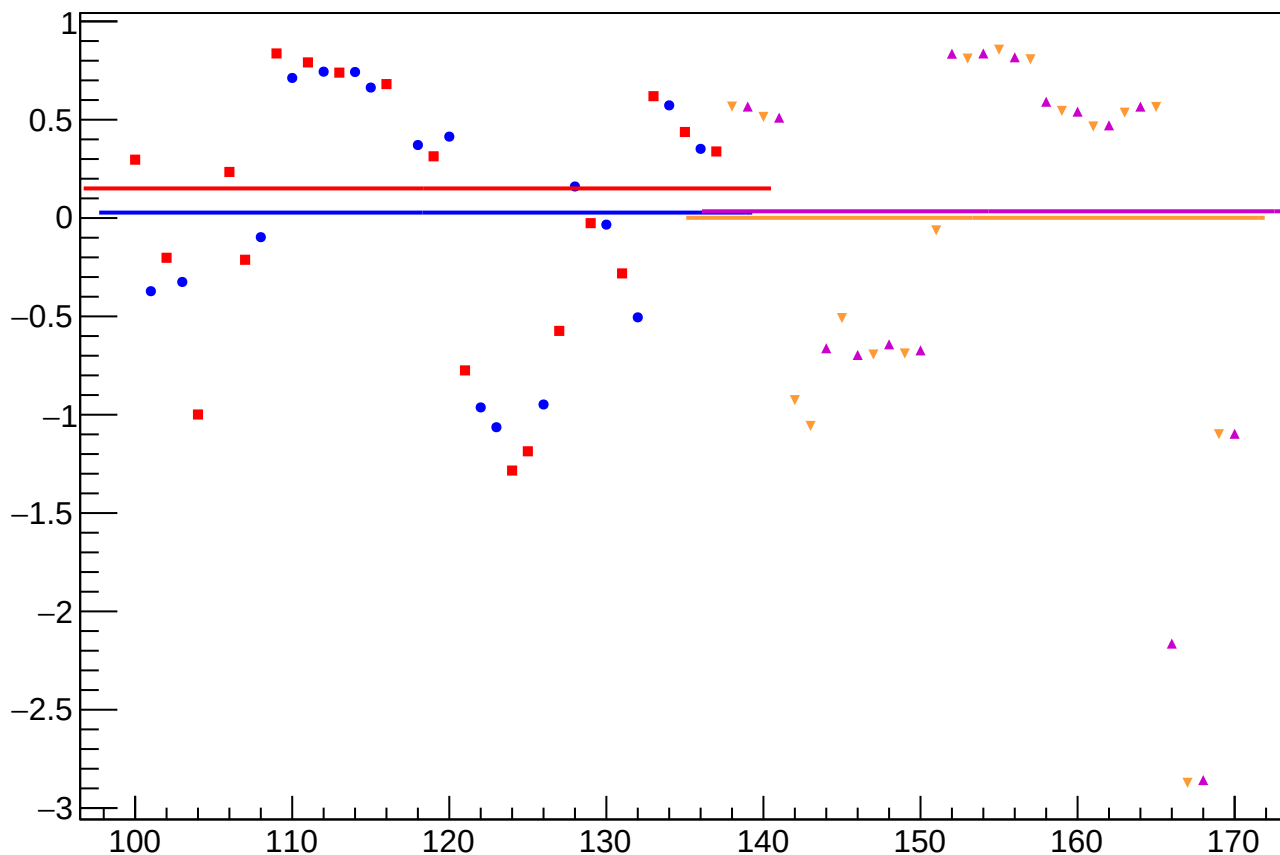
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 1054284.2/35

In: 0.014 $\pm$ 0.000 χ^2 /NDF:1289371.1/32

Out: 0.014 $\pm$ 0.000 χ^2 /NDF:919012.0/35

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 2209354.7/68

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.000

χ^2/NDF : 6276955529.7/16

Left: 0.018+/-0.000

χ^2/NDF : 145426563714.9/32

Left Out: 0.001+/-0.000

χ^2/NDF : 67393808175.7/16

Right: 0.095+/-0.000

χ^2/NDF : 19125643372.9/35

Right Out: 0.151+/-0.000

χ^2/NDF : 12653743155.9/18

In: 0.033+/-0.000

χ^2/NDF : 84267992009.5/32

Out: 0.041+/-0.000

χ^2/NDF : 80512906535.6/35

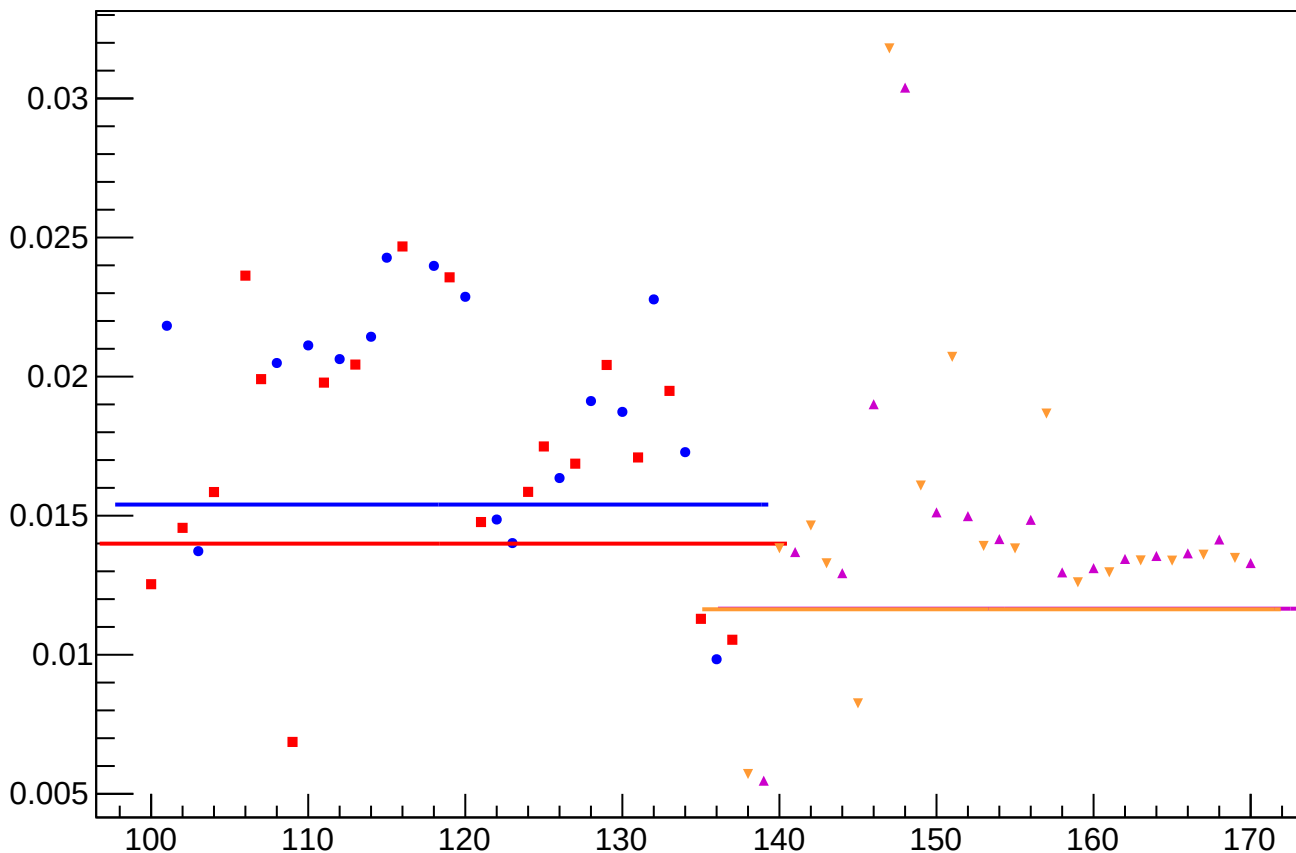
Left In: 0.034+/-0.000

χ^2/NDF : 77990237246.4/15

All: 0.037+/-0.000

χ^2/NDF : 164784693028.4

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1141655.8/16

Left Out: 0.012+/-0.000 χ^2/NDF : 2974284.4/16

Right Out: 0.014+/-0.000 χ^2/NDF : 1561550.9/18

Left In: 0.012+/-0.000 χ^2/NDF : 3033003.9/15

Left: 0.012+/-0.000 χ^2/NDF : 6007323.2/32

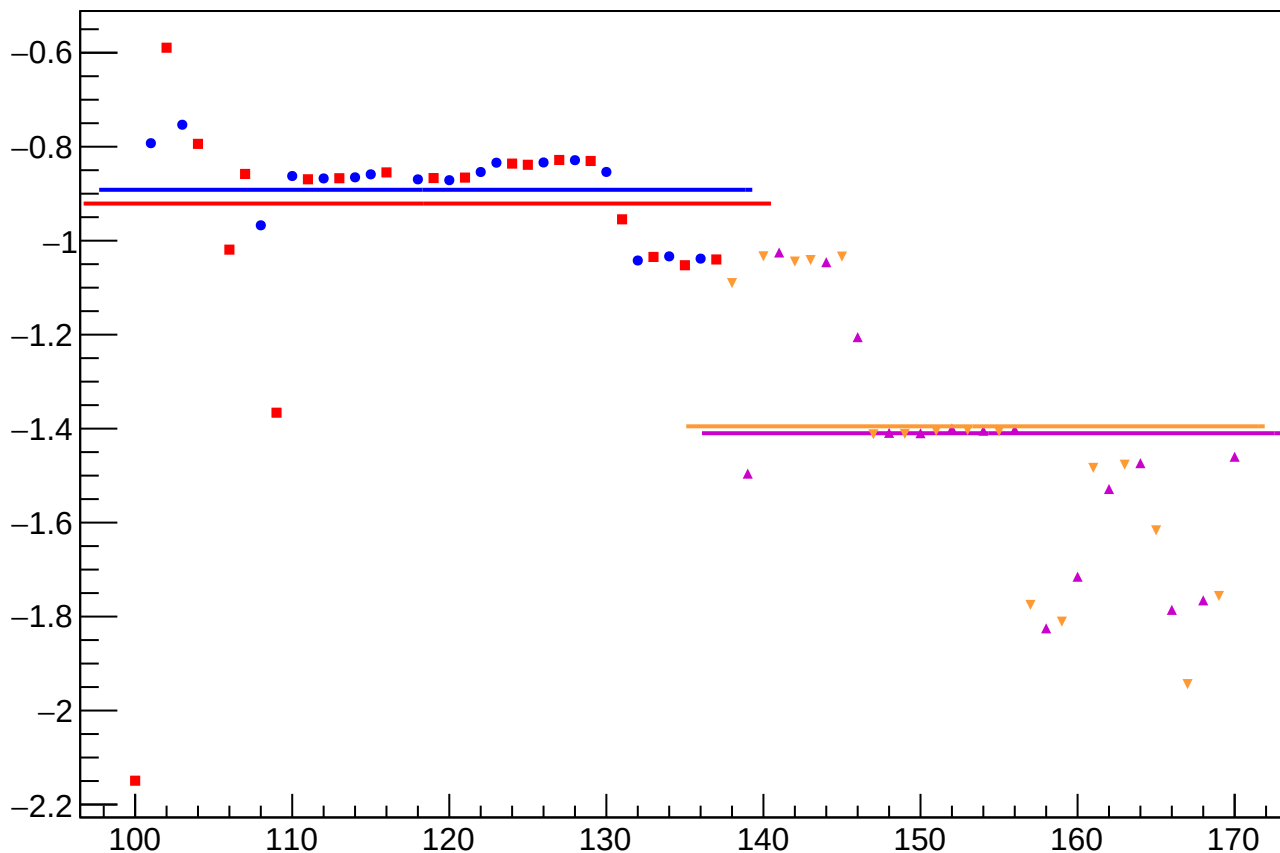
Right: 0.015+/-0.000 χ^2/NDF : 2754233.9/35

In: 0.013+/-0.000 χ^2/NDF : 4681368.6/32

Out: 0.012+/-0.000 χ^2/NDF : 4768274.5/35

All: 0.012+/-0.000 χ^2/NDF : 9456849.2/68

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.892 ± 0.000 $\chi^2/\text{NDF}: 39793337.2/16$

Left Out: -1.395 ± 0.000 $\chi^2/\text{NDF}: 711462115.6/16$

Right Out: -0.921 ± 0.000 $\chi^2/\text{NDF}: 131159330.1/18$

Left In: -1.410 ± 0.000 $\chi^2/\text{NDF}: 511150351.5/15$

Left: -1.402 ± 0.000 $\chi^2/\text{NDF}: 1223576678.9/32$

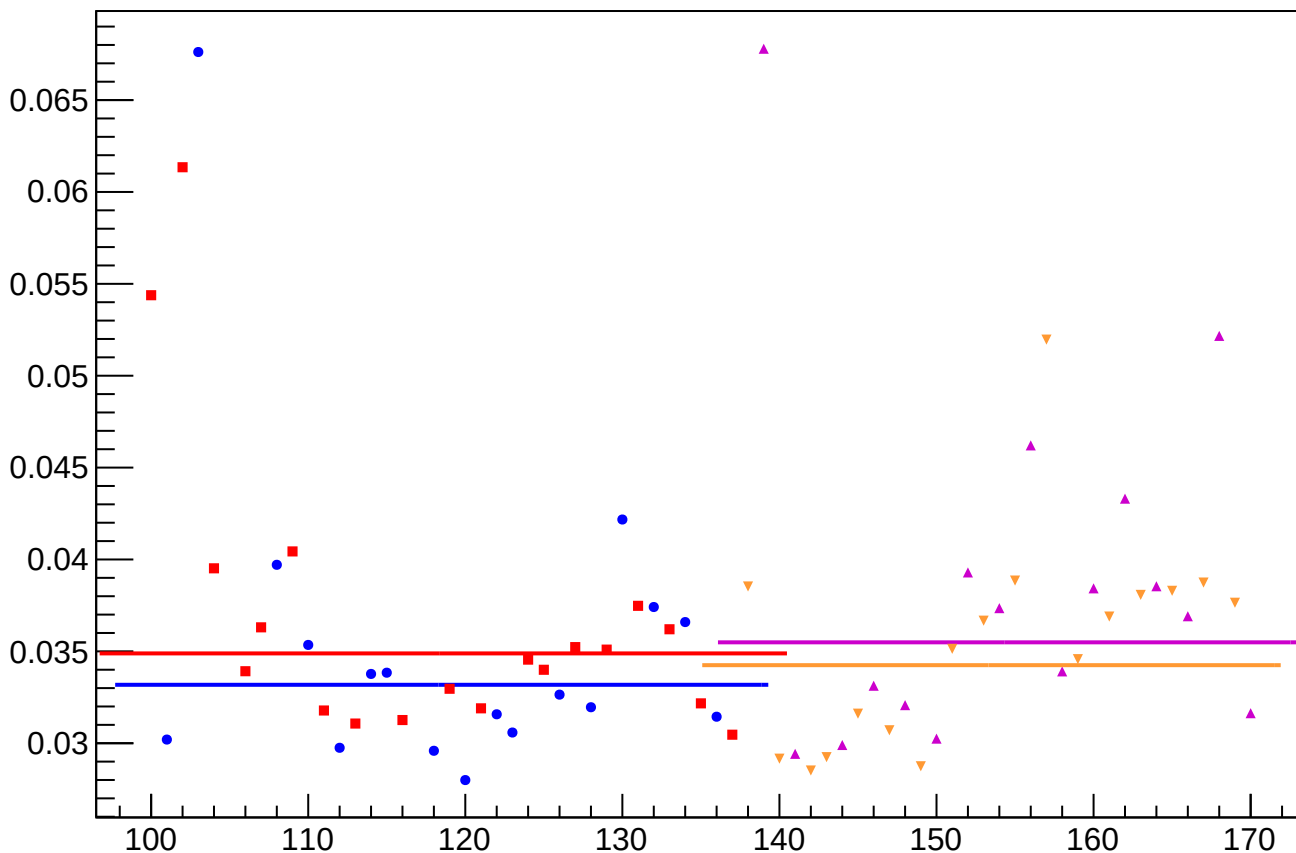
Right: -0.906 ± 0.000 $\chi^2/\text{NDF}: 173170801.3/35$

In: -1.213 ± 0.000 $\chi^2/\text{NDF}: 1430262016.8/32$

Out: -1.228 ± 0.000 $\chi^2/\text{NDF}: 1577859347.1/35$

All: -1.221 ± 0.000 $\chi^2/\text{NDF}: 3009682863.1/6$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.033 $\pm$ 0.000 χ^2/NDF : 400106.0/16

Left Out: 0.034 $\pm$ 0.000 χ^2/NDF : 422578.7/16

Right Out: 0.035 $\pm$ 0.000 χ^2/NDF : 275013.9/18

Left In: 0.035 $\pm$ 0.000 χ^2/NDF : 835888.7/15

Left: 0.035 $\pm$ 0.000 χ^2/NDF : 1272278.8/32

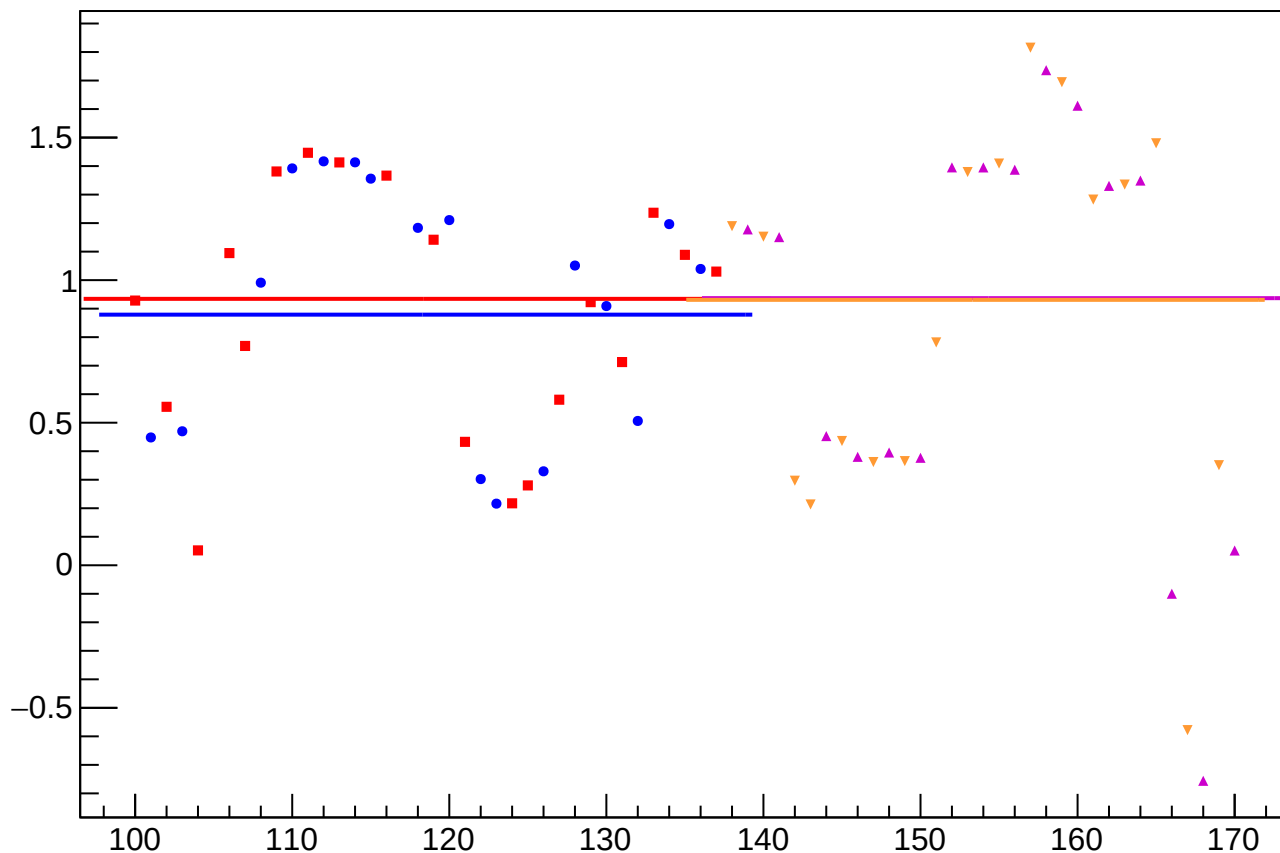
Right: 0.034 $\pm$ 0.000 χ^2/NDF : 690186.6/35

In: 0.035 $\pm$ 0.000 χ^2/NDF : 1270981.4/32

Out: 0.034 $\pm$ 0.000 χ^2/NDF : 700272.9/35

All: 0.035 $\pm$ 0.000 χ^2/NDF : 1971530.5/68

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.879 $\pm$ 0.000 χ^2/NDF : 6371602566.2/16

Left Out: 0.931 $\pm$ 0.000 χ^2/NDF : 56220671816.9/16

Right Out: 0.934 $\pm$ 0.000 χ^2/NDF : 9827120184.9/18

Left In: 0.937 $\pm$ 0.000 χ^2/NDF : 65097285417.3/15

Left: 0.934 $\pm$ 0.000 χ^2/NDF : 121320536342.6/32

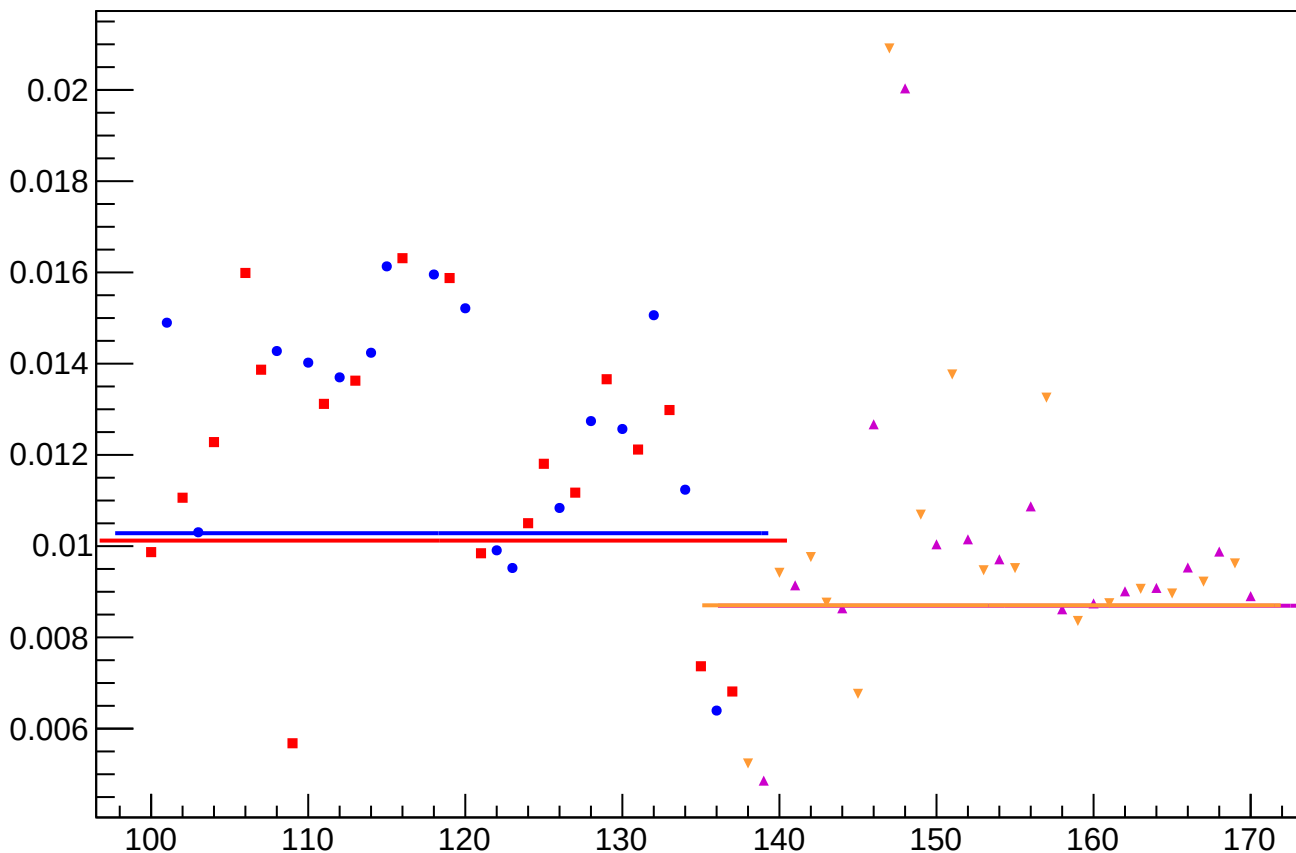
Right: 0.908 $\pm$ 0.000 χ^2/NDF : 16282606826.3/35

In: 0.922 $\pm$ 0.000 χ^2/NDF : 71598390827.2/32

Out: 0.932 $\pm$ 0.000 χ^2/NDF : 66048293522.3/35

All: 0.927 $\pm$ 0.000 χ^2/NDF : 137657342328.4

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1207460.1/16

Left Out: 0.009+/-0.000 χ^2/NDF :1680000.3/16

Right Out: 0.010+/-0.000 χ^2/NDF : 1176642.1/18

Left In: 0.009+/-0.000 χ^2/NDF :1653785.7/15

Left: 0.009+/-0.000 χ^2/NDF : 3333798.3/32

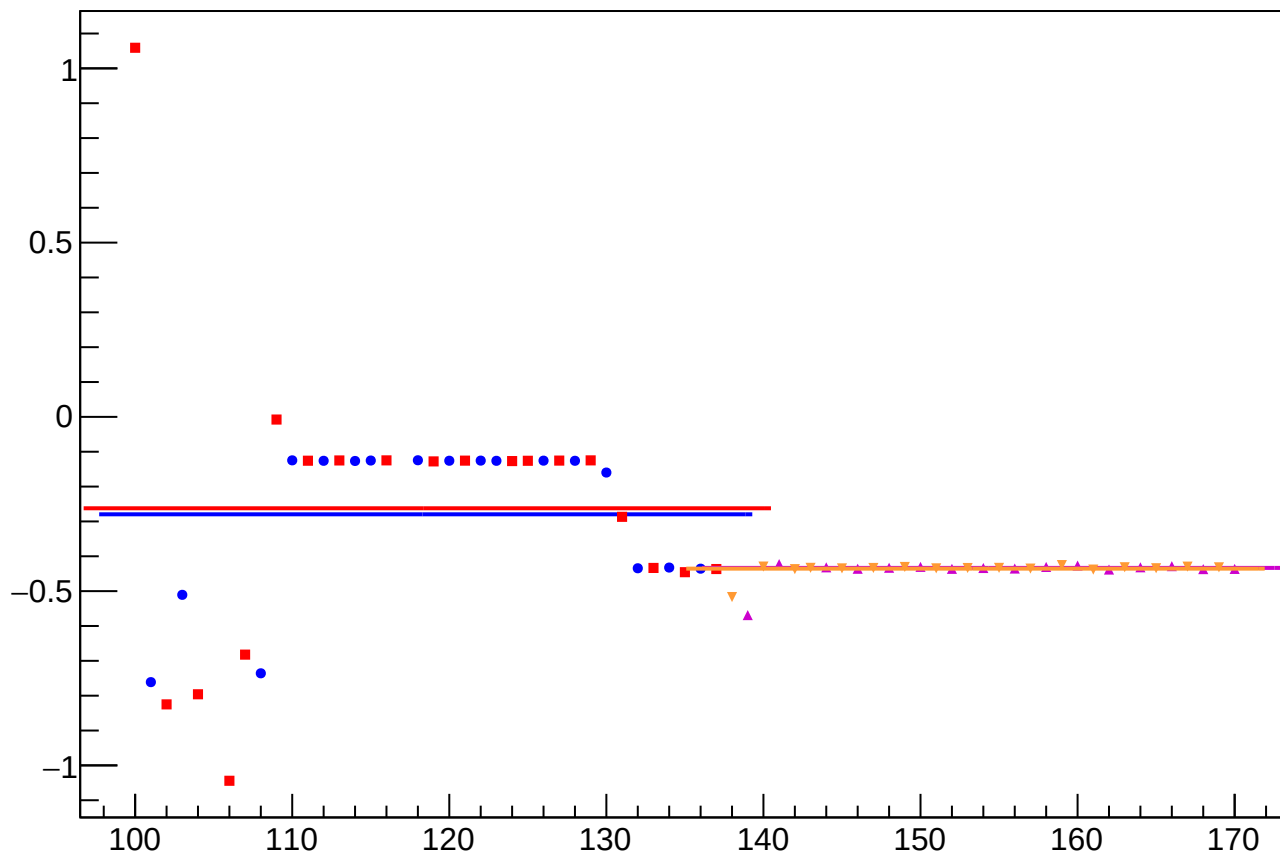
Right: 0.010+/-0.000 χ^2/NDF : 2385530.8/35

In: 0.009+/-0.000 χ^2/NDF :3057007.0/32

Out: 0.009+/-0.000 χ^2/NDF :3022388.3/35

All: 0.009+/-0.000 χ^2/NDF : 6079444.8/68

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.280+/-0.000 χ^2/NDF : 929210245.5/16

Left Out: -0.435+/-0.000 χ^2/NDF : 25981436.4/16

Right Out: -0.262+/-0.000 χ^2/NDF : 1006263824.6/18

Left In: -0.433+/-0.000 χ^2/NDF : 19793468.0/15

Left: -0.434+/-0.000 χ^2/NDF : 46010314.6/32

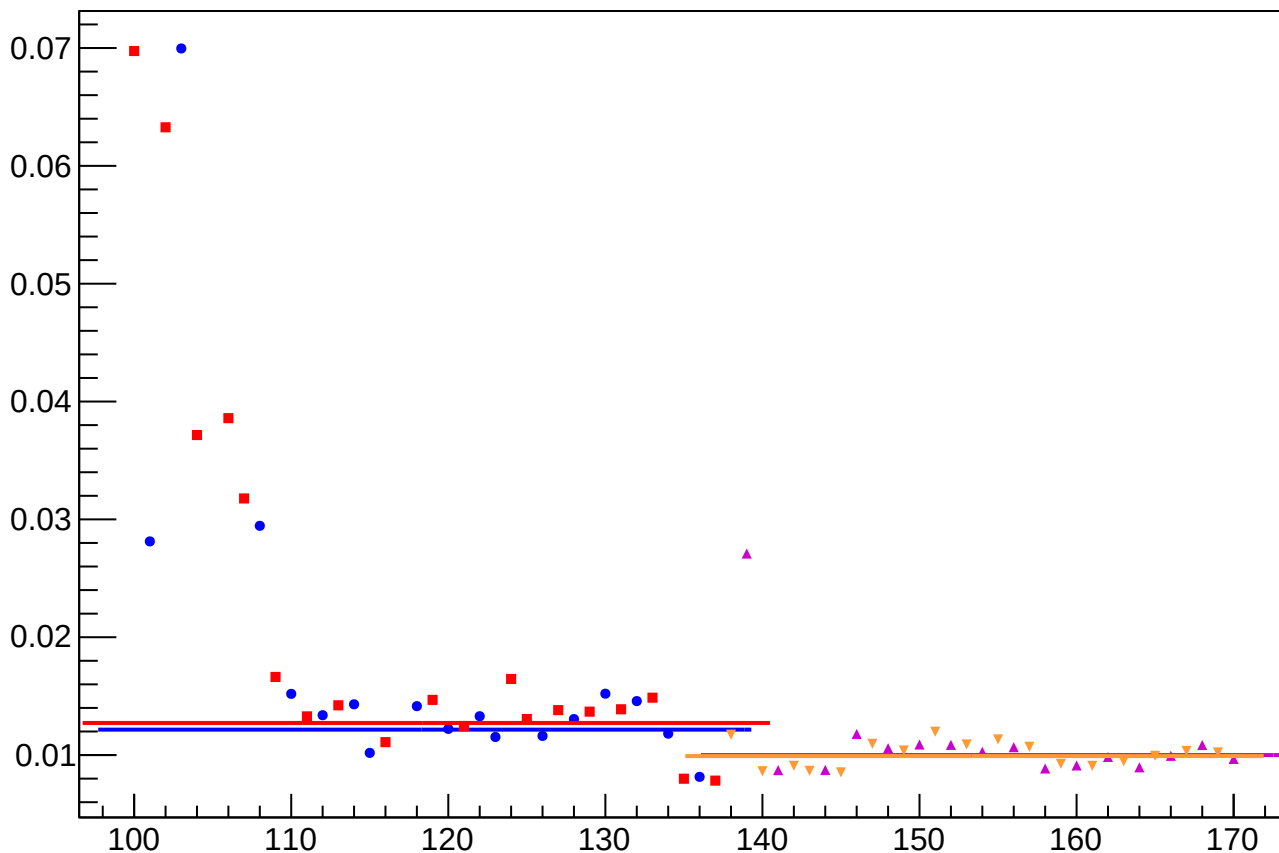
Right: -0.271+/-0.000 χ^2/NDF : 1940066892.0/35

In: -0.398+/-0.000 χ^2/NDF : 1520631989.4/32

Out: -0.398+/-0.000 χ^2/NDF : 1733815930.2/35

All: -0.398+/-0.000 χ^2/NDF : 3254455309.8/6

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1722777.4/16

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:229789.0/16

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1967397.9/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:742096.5/15

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 972657.0/32

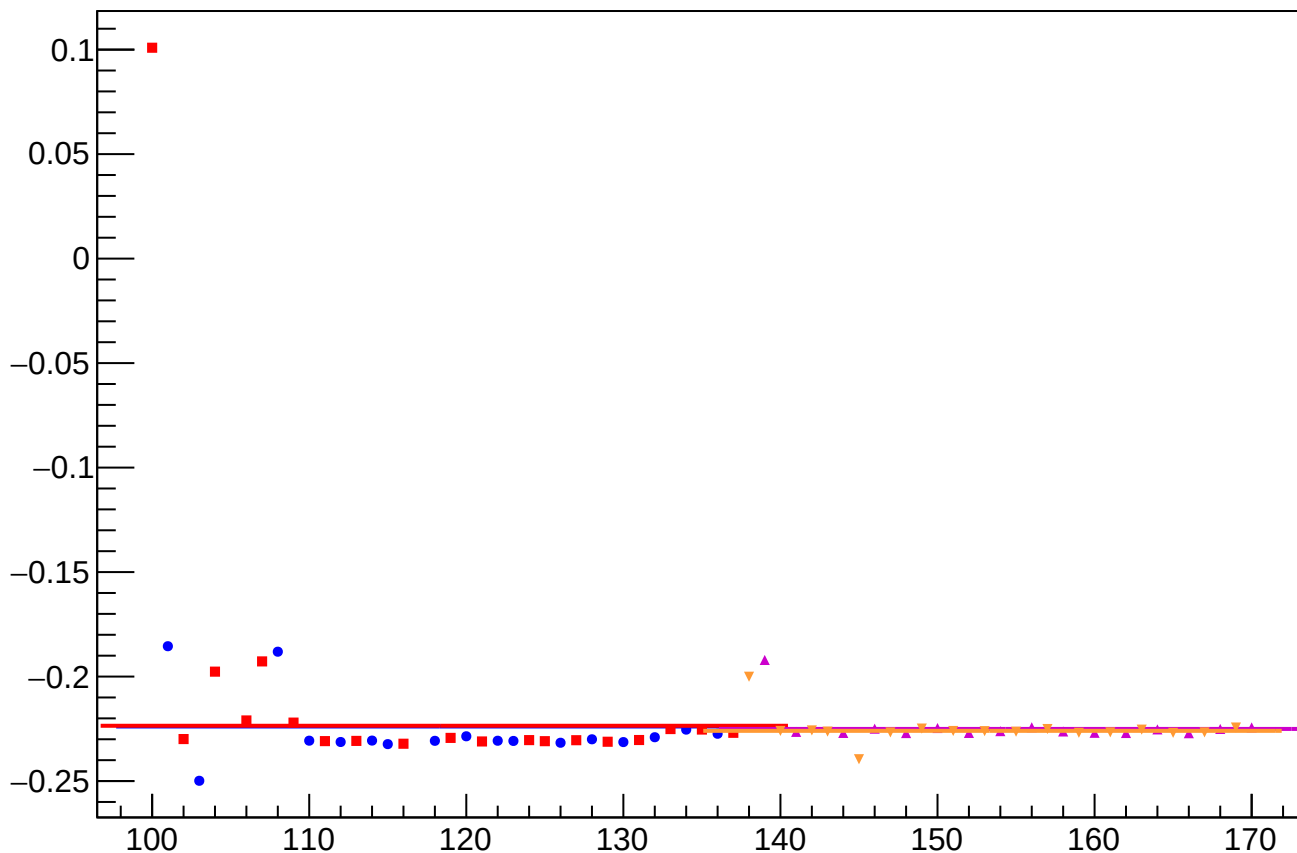
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3700041.2/35

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2690204.3/32

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2566942.3/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5257212.7/68

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.224 ± 0.000 χ^2/NDF : 74600073.9/16

Left Out: -0.226 ± 0.000 χ^2/NDF : 20687574.1/16

Right Out: -0.224 ± 0.000 χ^2/NDF : 168124199.3/18

Left In: -0.225 ± 0.000 χ^2/NDF : 12854420.6/15

Left: -0.226 ± 0.000 χ^2/NDF : 33725744.8/32

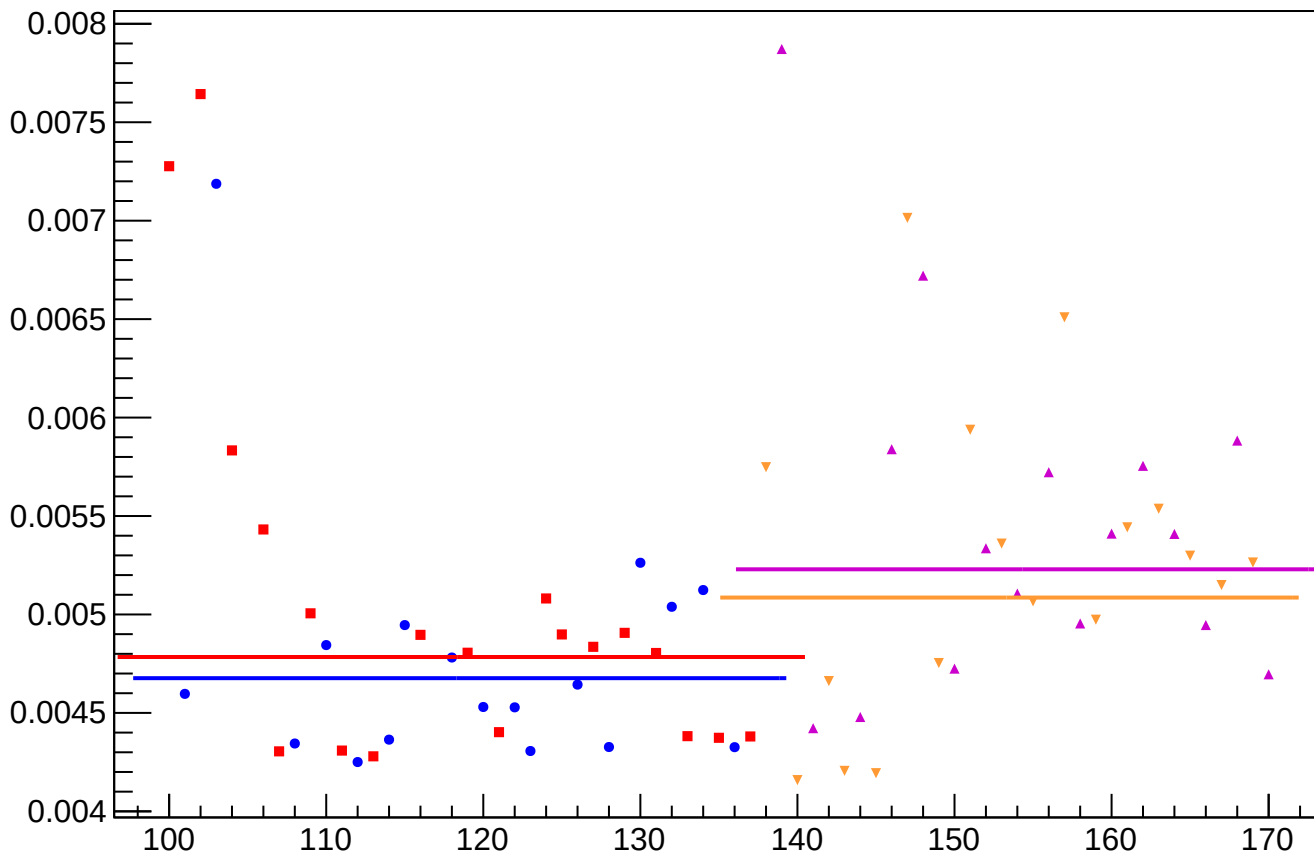
Right: -0.224 ± 0.000 χ^2/NDF : 242740169.2/35

In: -0.225 ± 0.000 χ^2/NDF : 87683981.7/32

Out: -0.225 ± 0.000 χ^2/NDF : 189828855.0/35

All: -0.225 ± 0.000 χ^2/NDF : 277584898.4/68

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 180780.8/16

Left Out: 0.005+/-0.000 χ^2/NDF : 451217.3/16

Right Out: 0.005+/-0.000 χ^2/NDF : 248269.2/18

Left In: 0.005+/-0.000 χ^2/NDF : 436042.2/15

Left: 0.005+/-0.000 χ^2/NDF : 896322.8/32

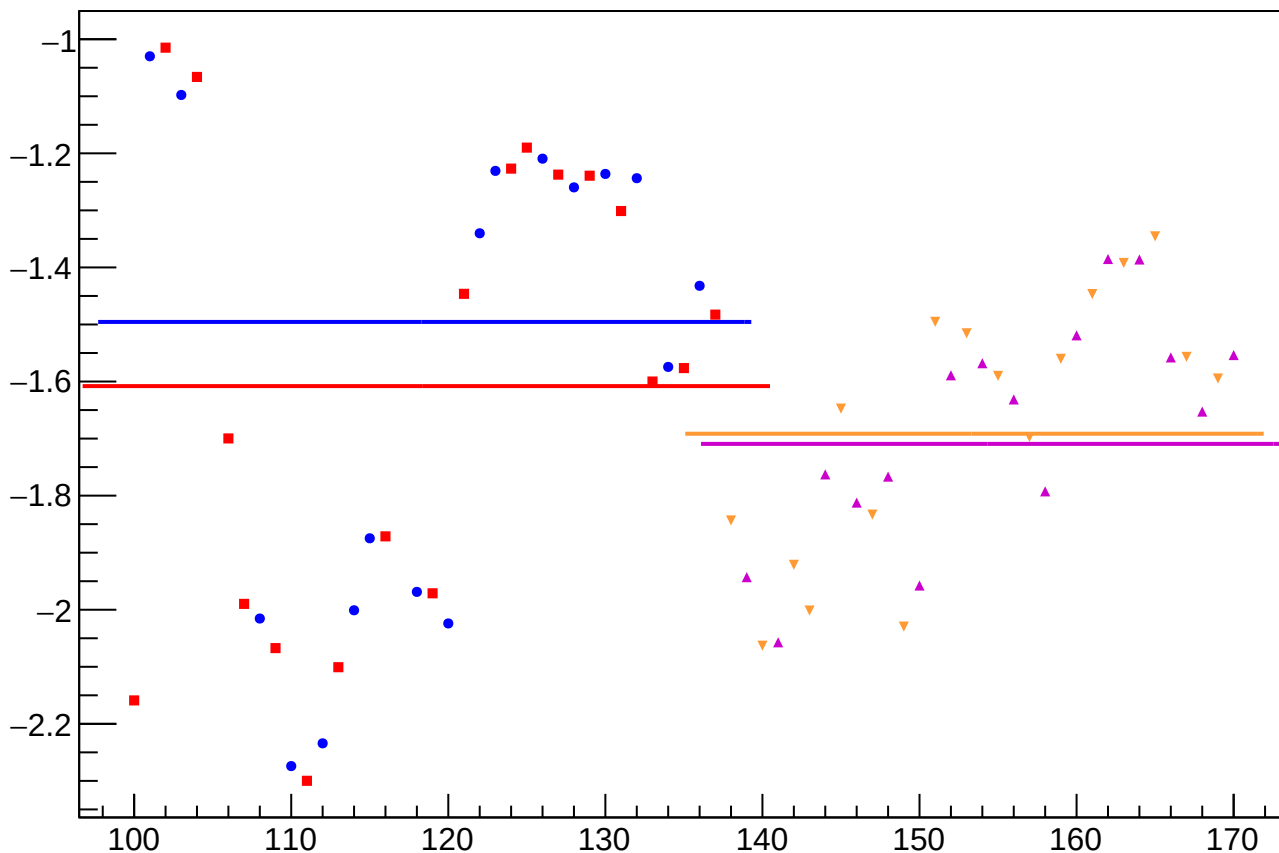
Right: 0.005+/-0.000 χ^2/NDF : 432242.2/35

In: 0.005+/-0.000 χ^2/NDF : 718794.0/32

Out: 0.005+/-0.000 χ^2/NDF : 730999.0/35

All: 0.005+/-0.000 χ^2/NDF : 1451088.4/68

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.496+/-0.000 χ^2/NDF : 22506050663.3/16

Left Out: -1.691+/-0.000 χ^2/NDF : 15728346496.6/16

Right Out: -1.608+/-0.000 χ^2/NDF : 27852841950.3/18

Left In: -1.709+/-0.000 χ^2/NDF : 11416199938.6/15

Left: -1.700+/-0.000 χ^2/NDF : 27193205939.8/32

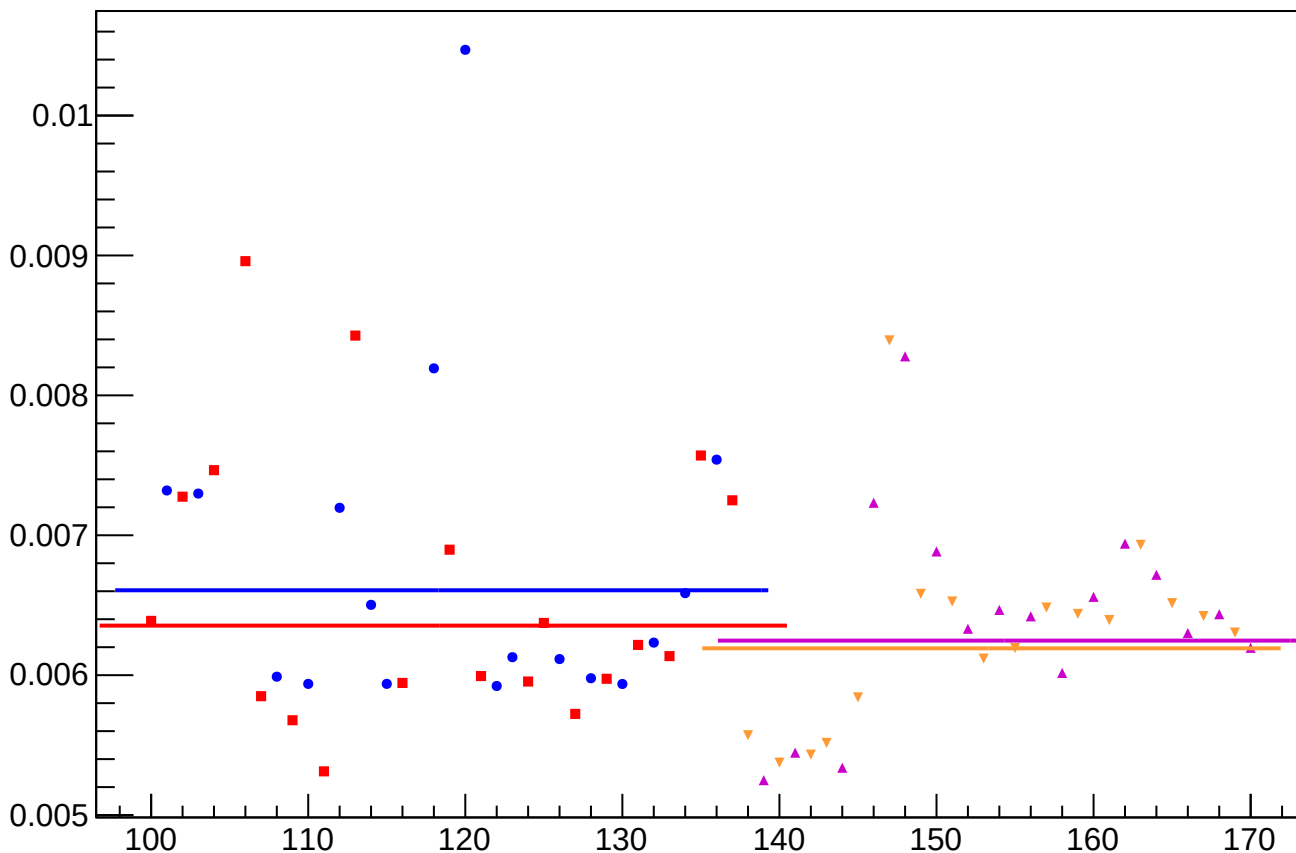
Right: -1.556+/-0.000 χ^2/NDF : 51308404748.0/35

In: -1.642+/-0.000 χ^2/NDF : 38260769823.6/32

Out: -1.663+/-0.000 χ^2/NDF : 44326996365.2/35

All: -1.653+/-0.000 χ^2/NDF : 82689829908.8/70

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 201323.2/16

Left Out: 0.006+/-0.000 χ^2/NDF :228937.9/16

Right Out: 0.006+/-0.000 χ^2/NDF : 227287.9/18

Left In: 0.006+/-0.000 χ^2/NDF :291083.9/15

Left: 0.006+/-0.000 χ^2/NDF : 520951.4/32

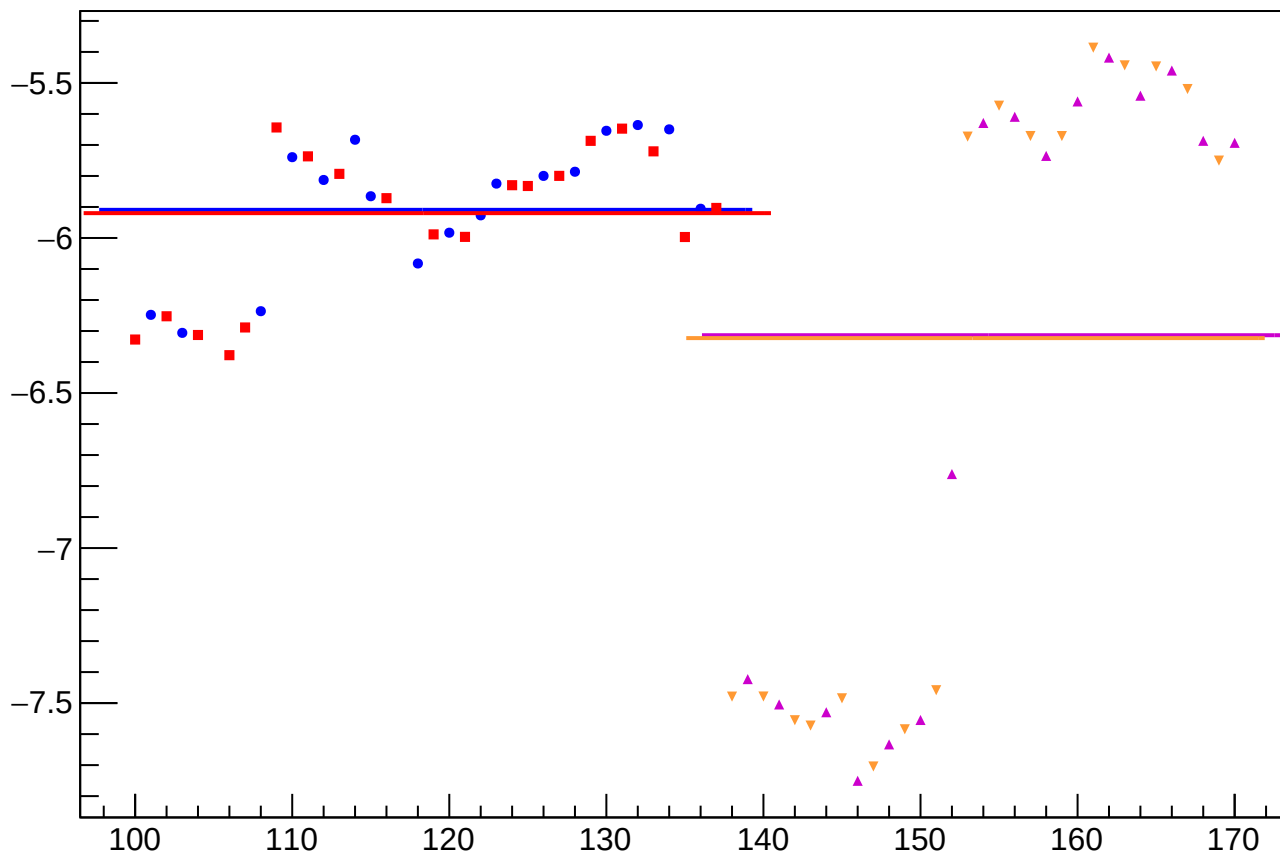
Right: 0.006+/-0.000 χ^2/NDF : 438183.3/35

In: 0.006+/-0.000 χ^2/NDF :516977.4/32

Out: 0.006+/-0.000 χ^2/NDF :461867.9/35

All: 0.006+/-0.000 χ^2/NDF : 984695.0/68

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.909+/-0.000 χ^2/NDF : 11125163629.1/16

Left Out: -6.323+/-0.000 χ^2/NDF : 163571777263.7/16

Right Out: -5.920+/-0.000 χ^2/NDF : 12785272526.6/18

Left In: -6.314+/-0.000 χ^2/NDF : 139347990683.4/15

Left: -6.318+/-0.000 χ^2/NDF : 302927298847.5/32

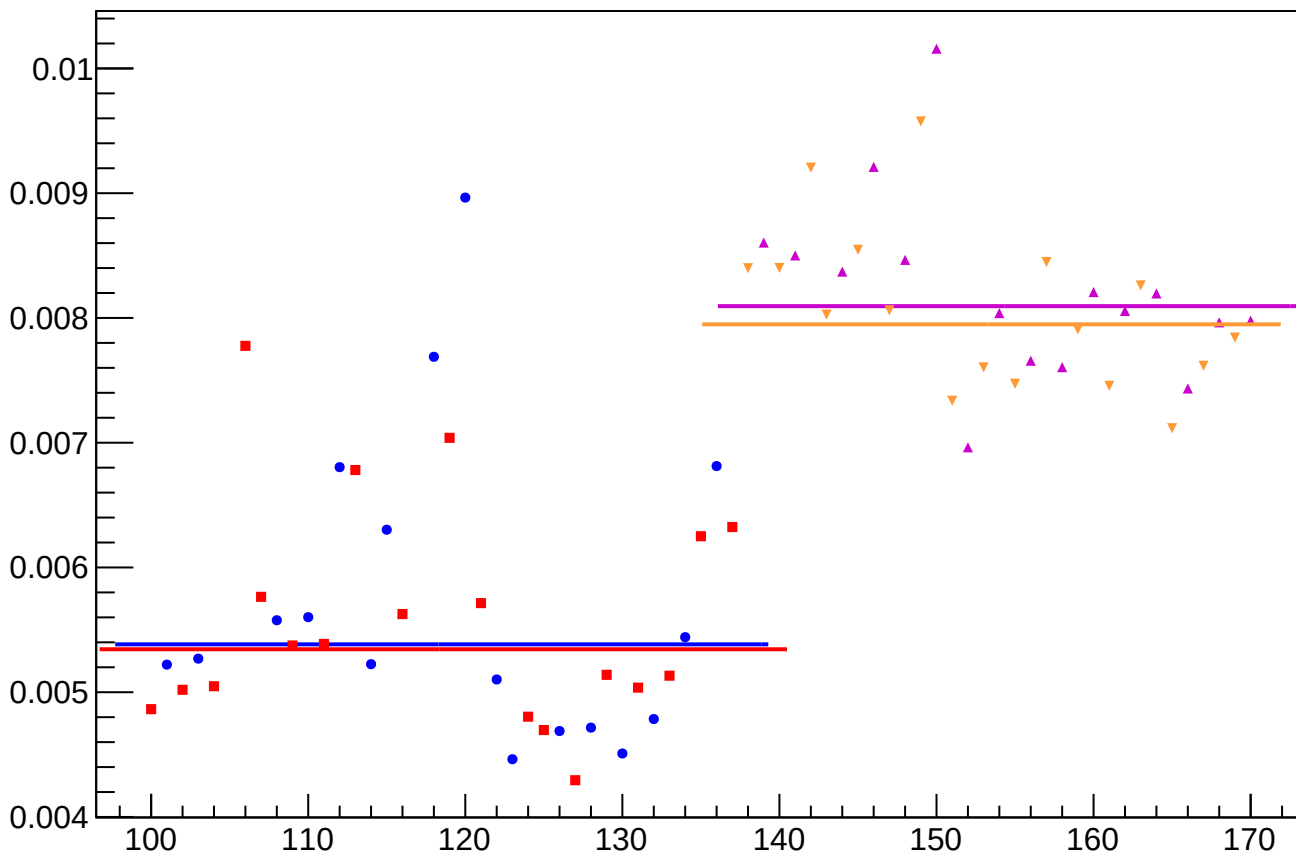
Right: -5.915+/-0.000 χ^2/NDF : 23922455242.5/35

In: -6.095+/-0.000 χ^2/NDF : 165620837390.6/32

Out: -6.098+/-0.000 χ^2/NDF : 192370991062.4/35

All: -6.096+/-0.000 χ^2/NDF : 357994390387.6

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 347627.8/16

Left Out: 0.008+/-0.000 χ^2/NDF :116126.8/16

Right Out: 0.005+/-0.000 χ^2/NDF : 244700.0/18

Left In: 0.008+/-0.000 χ^2/NDF :150319.8/15

Left: 0.008+/-0.000 χ^2/NDF : 270143.2/32

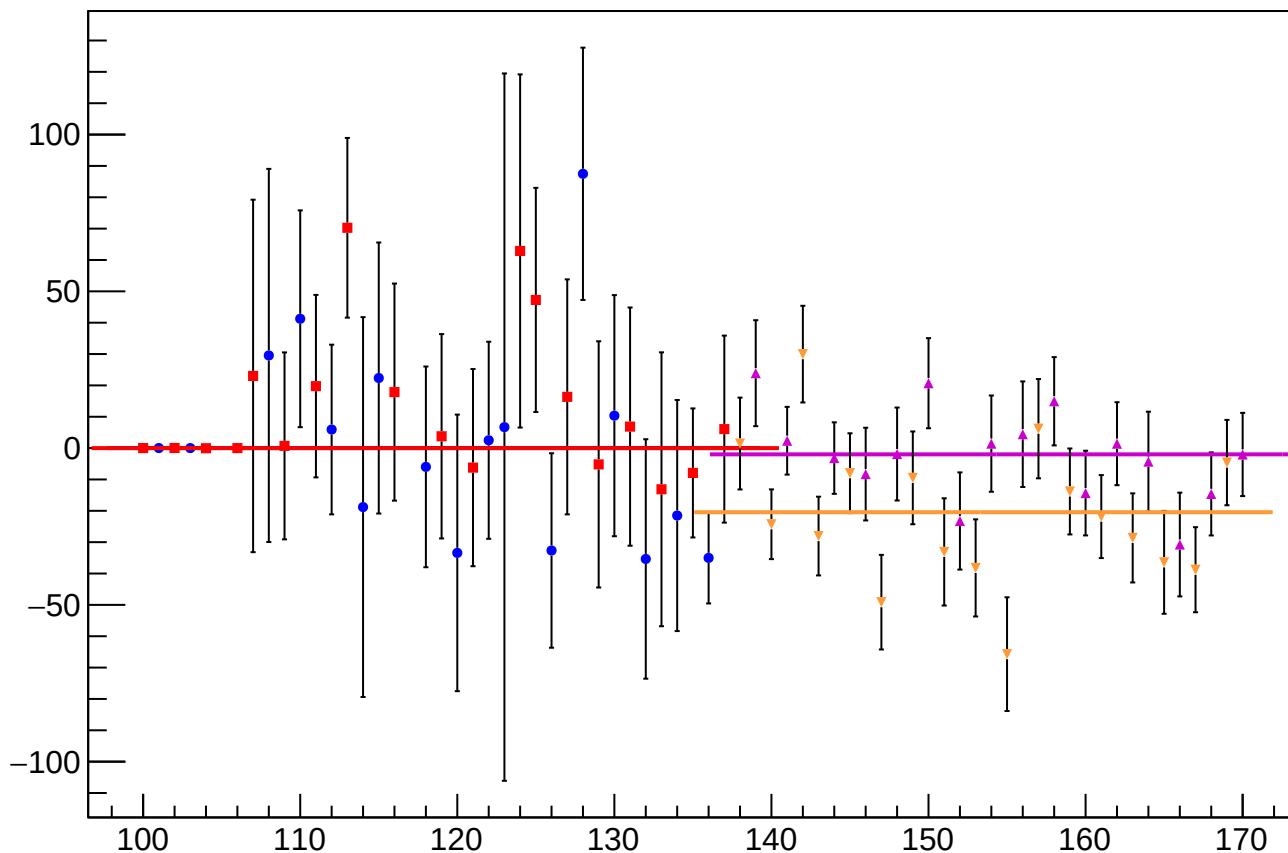
Right: 0.005+/-0.000 χ^2/NDF : 592657.5/35

In: 0.007+/-0.000 χ^2/NDF :1859782.0/32

Out: 0.006+/-0.000 χ^2/NDF :1698622.5/35

All: 0.007+/-0.000 χ^2/NDF : 3564875.6/68

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013+/-0.017 χ^2/NDF : 15.8/16

Left Out: -20.444+/-3.459 χ^2/NDF : 34.2/16

Right Out: -0.003+/-0.016 χ^2/NDF : 15.3/18

Left In: -1.993+/-3.516 χ^2/NDF : 13.6/15

Left: -11.370+/-2.466 χ^2/NDF : 61.7/32

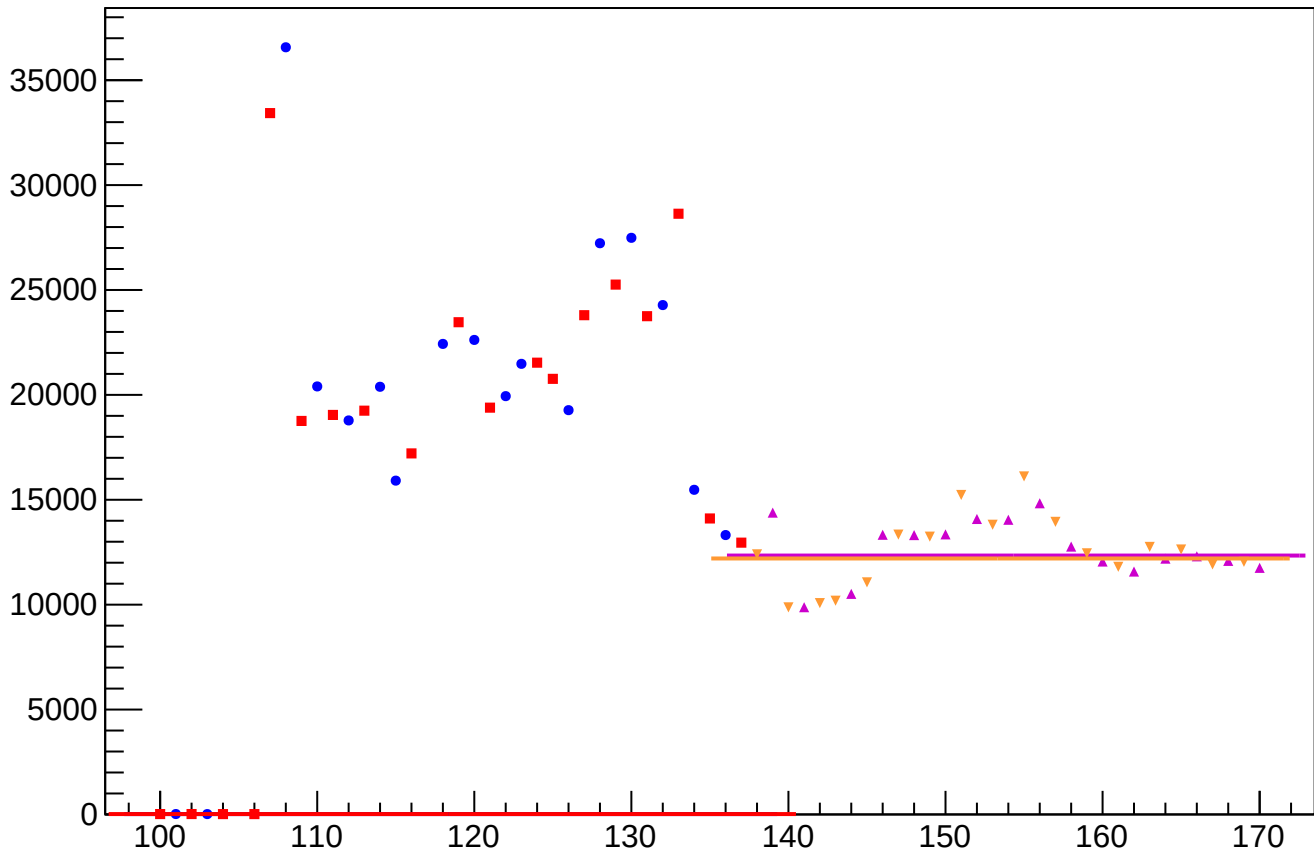
Right: 0.004+/-0.012 χ^2/NDF : 31.6/35

In: 0.013+/-0.017 χ^2/NDF : 29.7/32

Out: -0.004+/-0.016 χ^2/NDF : 84.4/35

All: 0.004+/-0.012 χ^2/NDF : 114.6/68

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.641 $\pm$ 0.012 χ^2 /NDF: 10841561.4/16

Left Out: 12201.434 $\pm$ 2.446 χ^2 /NDF:424435.3/16

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11103320.8/18

Left In: 12340.742 $\pm$ 2.487 χ^2 /NDF:319909.1/15

Left: 12269.945 $\pm$ 1.744 χ^2 /NDF: 745939.6/32

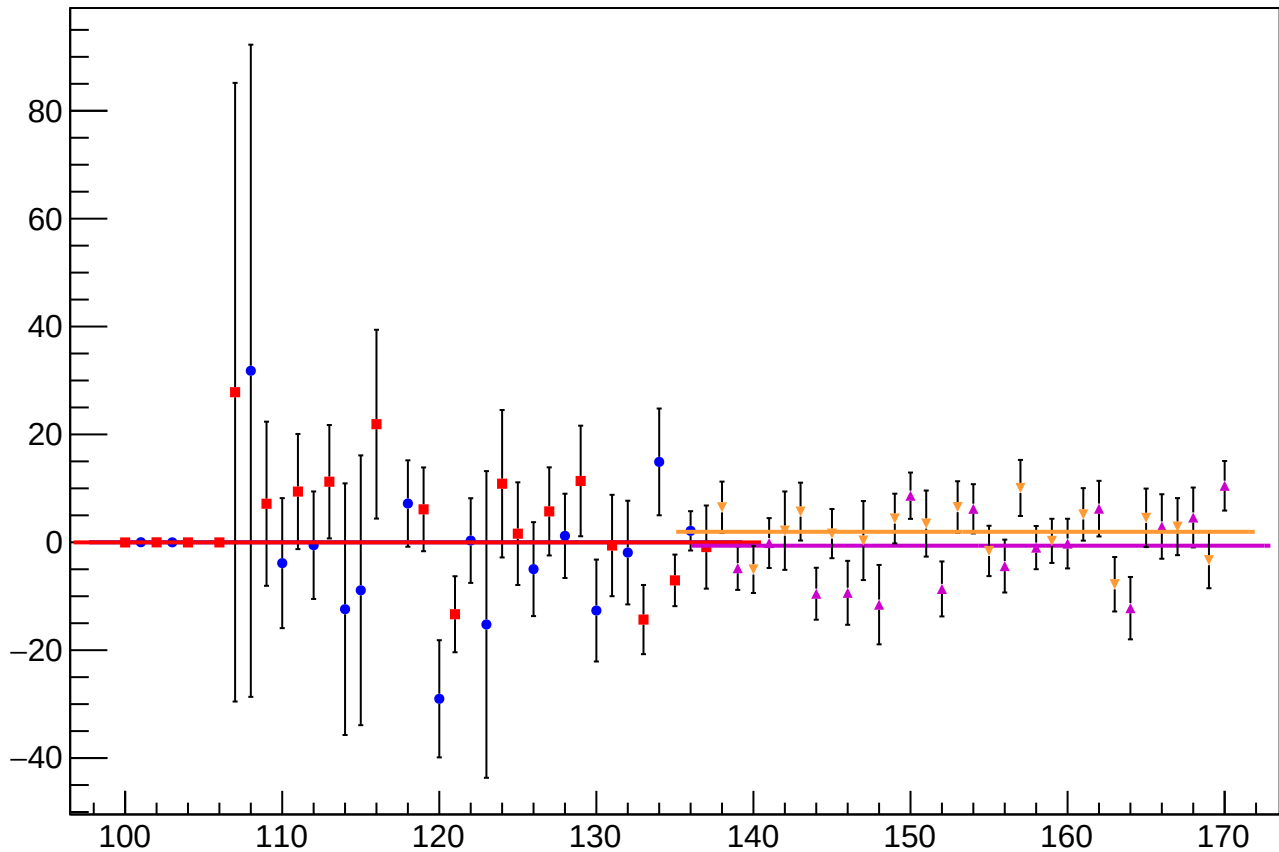
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 21945270.7/35

In: 18.940 $\pm$ 0.012 χ^2 /NDF:35718347.4/32

Out: 18.574 $\pm$ 0.011 χ^2 /NDF:36335114.1/35

All: 18.743 $\pm$ 0.008 χ^2 /NDF: 72053940.6/68

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 14.9/16

Left Out: 1.947 ± 1.226 χ^2/NDF : 13.9/16

Right Out: -0.014 ± 0.009 χ^2/NDF : 18.4/18

Left In: -0.629 ± 1.226 χ^2/NDF : 31.7/15

Left: 0.658 ± 0.867 χ^2/NDF : 47.8/32

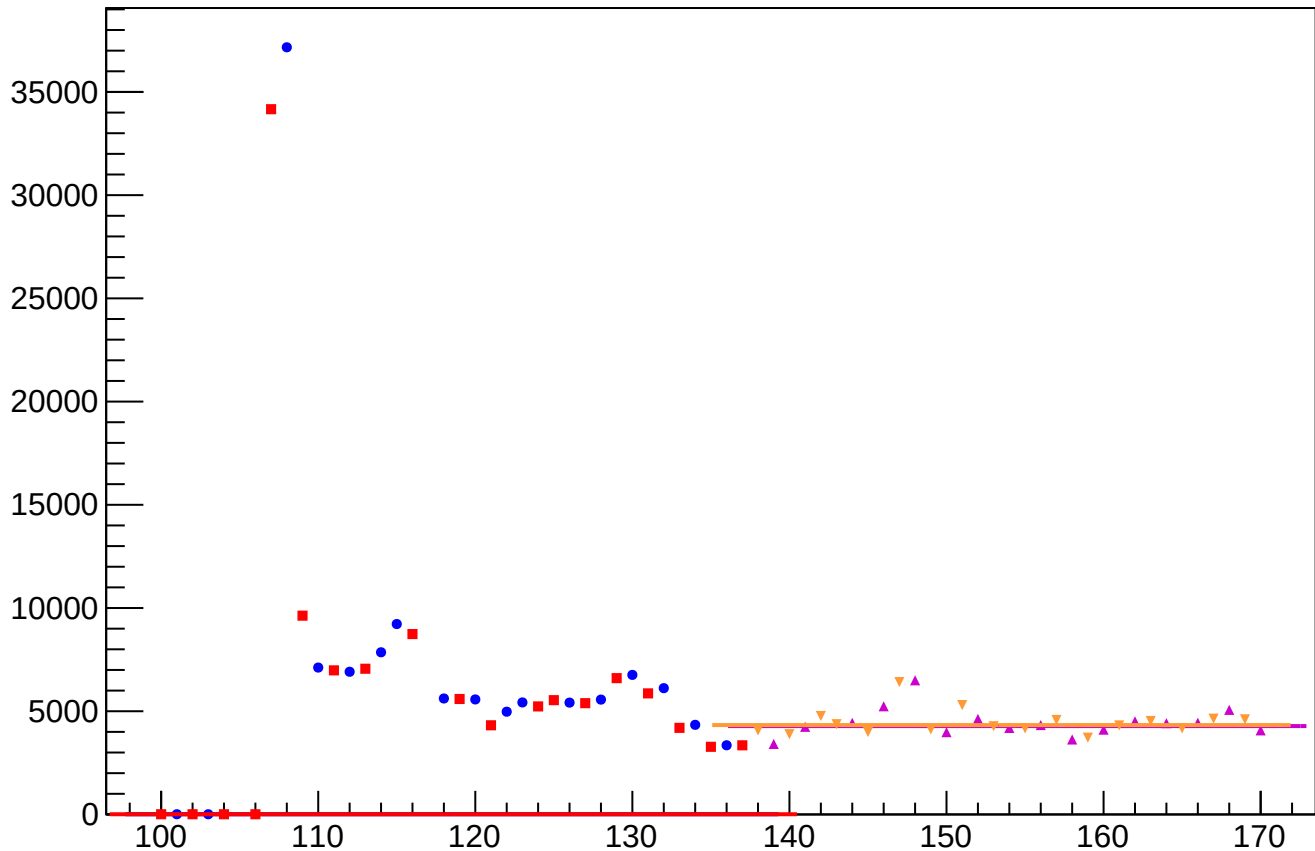
Right: -0.007 ± 0.006 χ^2/NDF : 34.7/35

In: 0.001 ± 0.009 χ^2/NDF : 46.9/32

Out: -0.014 ± 0.009 χ^2/NDF : 34.9/35

All: -0.007 ± 0.006 χ^2/NDF : 83.1/68

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.938 ± 0.007 χ^2/NDF : 10973577.1/16

Left Out: 4329.447 ± 0.867 χ^2/NDF : 329374.4/16

Right Out: 9.854 ± 0.006 χ^2/NDF : 11152667.7/18

Left In: 4280.356 ± 0.867 χ^2/NDF : 454263.1/15

Left: 4304.885 ± 0.613 χ^2/NDF : 785240.7/32

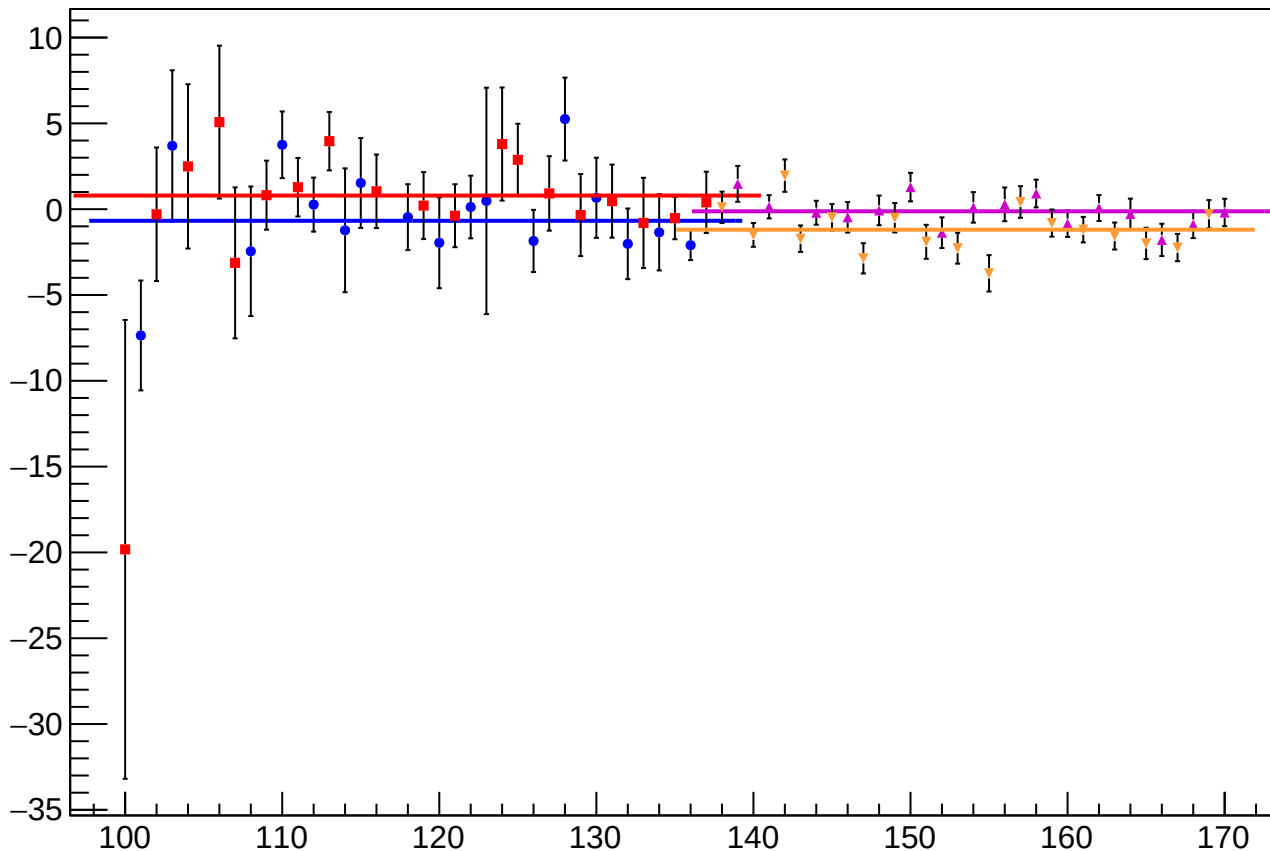
Right: 9.894 ± 0.004 χ^2/NDF : 22126332.7/35

In: 10.179 ± 0.007 χ^2/NDF : 35705594.6/32

Out: 10.069 ± 0.006 χ^2/NDF : 36289450.2/35

All: 10.121 ± 0.004 χ^2/NDF : 71995195.4/68

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.677 ± 0.484 χ^2/NDF : 22.3/16

Left Out: -1.197 ± 0.204 χ^2/NDF : 33.9/16

Right Out: 0.795 ± 0.501 χ^2/NDF : 12.0/18

Left In: -0.123 ± 0.207 χ^2/NDF : 14.4/15

Left: -0.669 ± 0.146 χ^2/NDF : 61.9/32

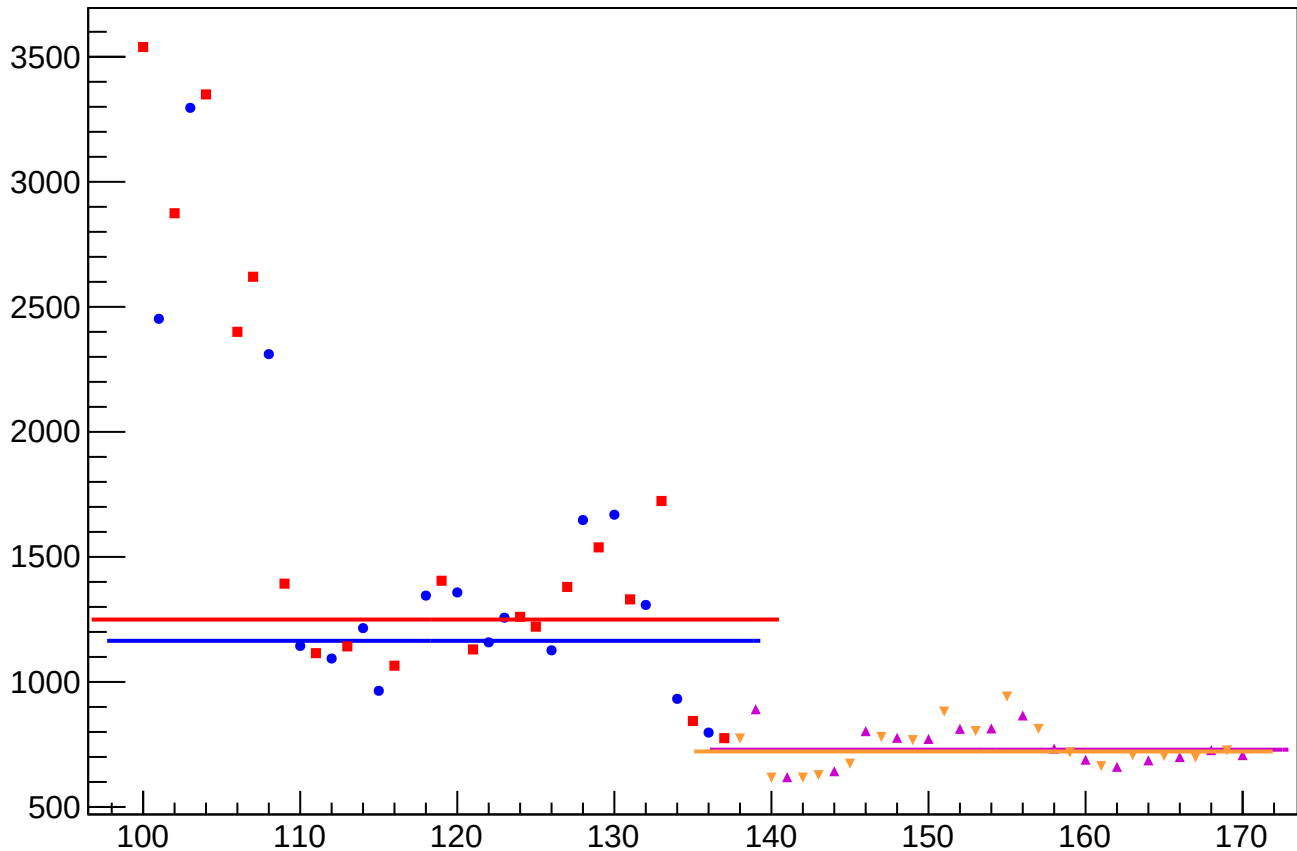
Right: 0.033 ± 0.348 χ^2/NDF : 38.7/35

In: -0.209 ± 0.191 χ^2/NDF : 37.8/32

Out: -0.913 ± 0.189 χ^2/NDF : 59.4/35

All: -0.564 ± 0.134 χ^2/NDF : 104.1/68

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1164.459 $\pm$ 0.342 χ^2 /NDF: 1584212.9/16

Left Out: 721.900 $\pm$ 0.144 χ^2 /NDF: 318026.0/16

Right Out: 1249.596 $\pm$ 0.354 χ^2 /NDF: 1650133.1/18

Left In: 729.155 $\pm$ 0.147 χ^2 /NDF: 260428.1/15

Left: 725.469 $\pm$ 0.103 χ^2 /NDF: 579696.7/32

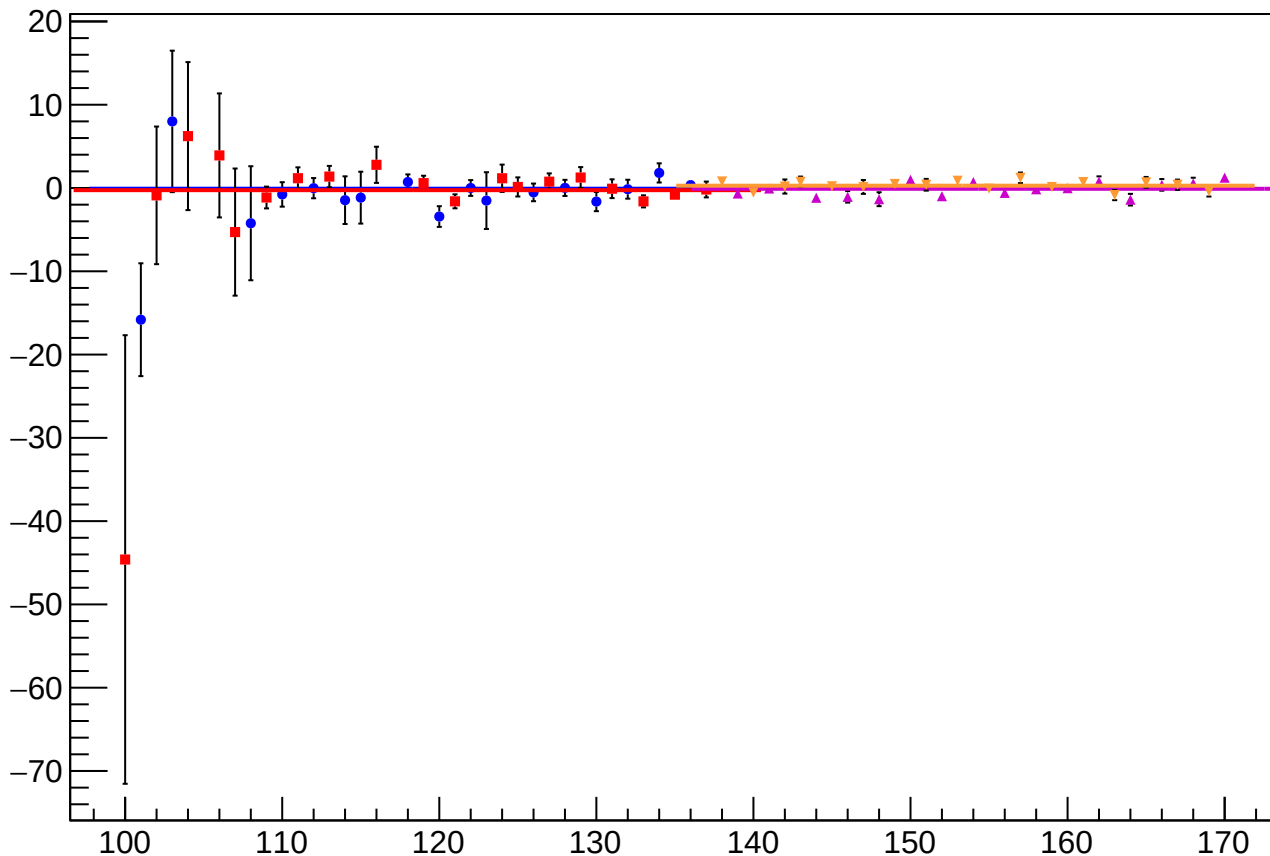
Right: 1205.546 $\pm$ 0.246 χ^2 /NDF: 3264193.7/35

In: 796.685 $\pm$ 0.135 χ^2 /NDF: 3210692.0/32

Out: 796.968 $\pm$ 0.134 χ^2 /NDF: 3869127.3/35

All: 796.828 $\pm$ 0.095 χ^2 /NDF: 7079821.6/68

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.086 ± 0.270 χ^2/NDF : 21.1/16

Left Out: 0.278 ± 0.147 χ^2/NDF : 13.4/16

Right Out: -0.259 ± 0.264 χ^2/NDF : 20.4/18

Left In: -0.094 ± 0.147 χ^2/NDF : 31.4/15

Left: 0.093 ± 0.104 χ^2/NDF : 48.0/32

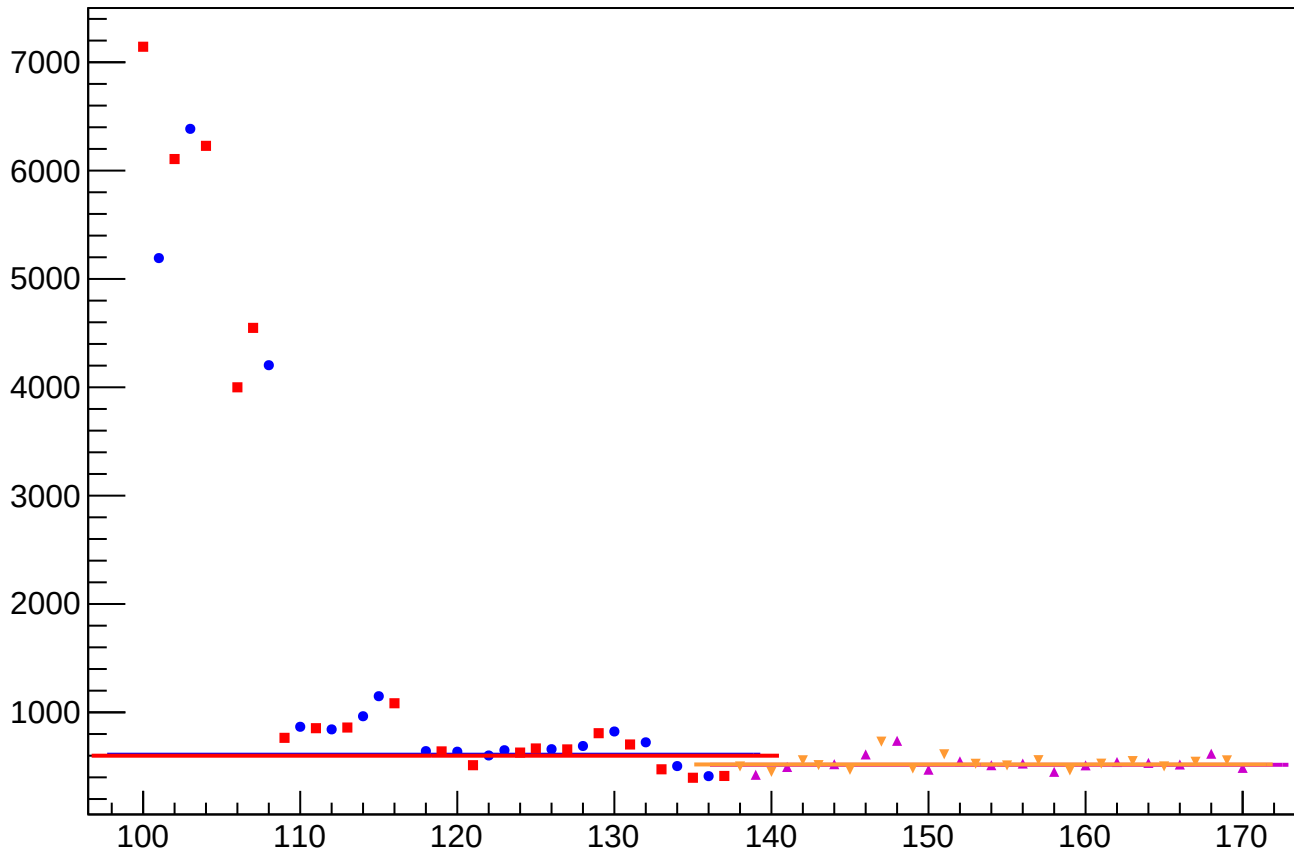
Right: -0.174 ± 0.189 χ^2/NDF : 41.7/35

In: -0.092 ± 0.129 χ^2/NDF : 52.5/32

Out: 0.151 ± 0.128 χ^2/NDF : 37.0/35

All: 0.031 ± 0.091 χ^2/NDF : 91.2/68

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 609.016 $\pm$ 0.191 χ^2 /NDF: 3139231.5/16

Left Out: 519.095 $\pm$ 0.104 χ^2 /NDF: 282134.5/16

Right Out: 599.910 $\pm$ 0.187 χ^2 /NDF: 3547599.8/18

Left In: 515.873 $\pm$ 0.104 χ^2 /NDF: 362382.3/15

Left: 517.490 $\pm$ 0.074 χ^2 /NDF: 644996.5/32

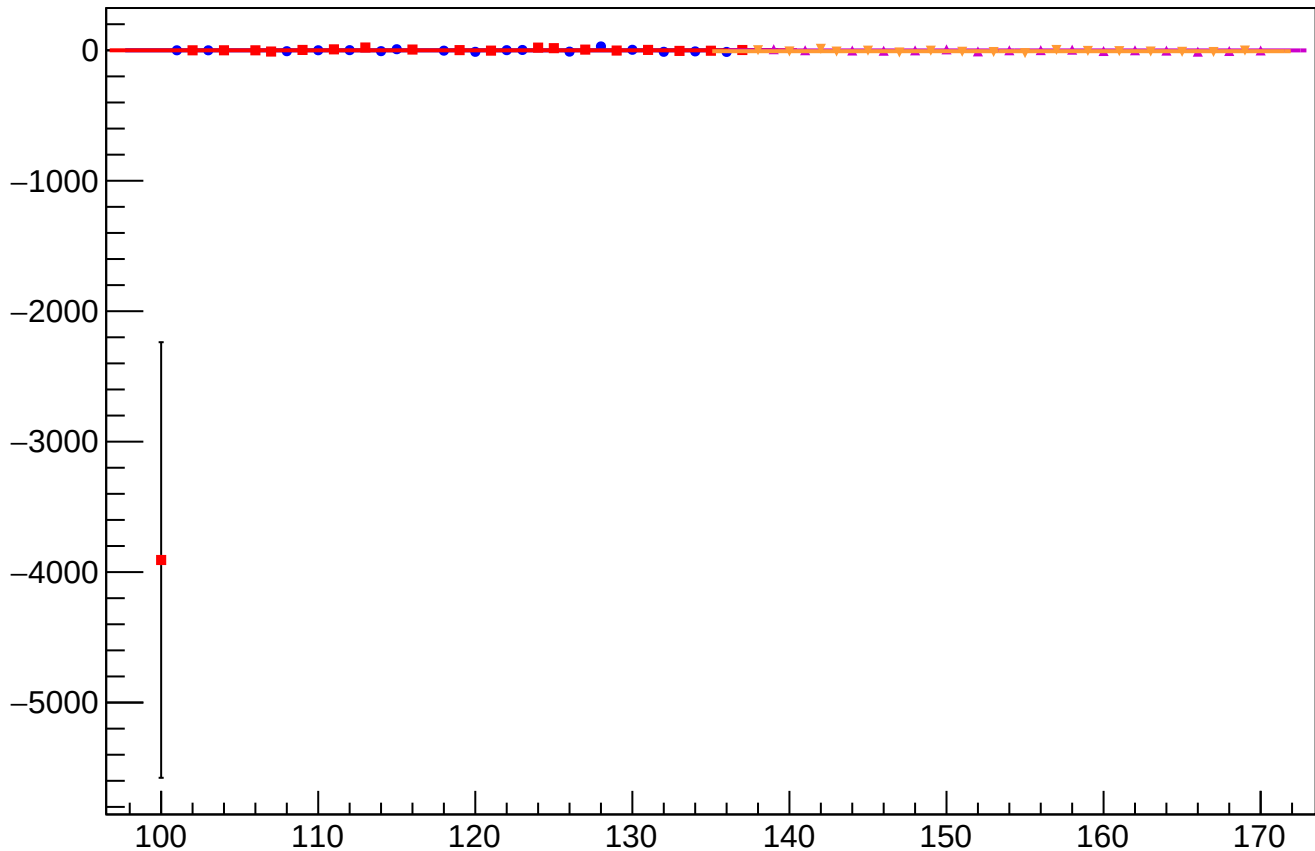
Right: 604.364 $\pm$ 0.134 χ^2 /NDF: 6687992.0/35

In: 537.238 $\pm$ 0.091 χ^2 /NDF: 3684823.2/32

Out: 538.152 $\pm$ 0.091 χ^2 /NDF: 3972589.9/35

All: 537.699 $\pm$ 0.064 χ^2 /NDF: 7657463.4/68

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 15.3/16

Left Out: -6.926 ± 1.190 χ^2/NDF : 33.9/16

Right Out: 0.027 ± 0.020 χ^2/NDF : 17.3/18

Left In: -0.718 ± 1.210 χ^2/NDF : 14.0/15

Left: -3.875 ± 0.848 χ^2/NDF : 61.3/32

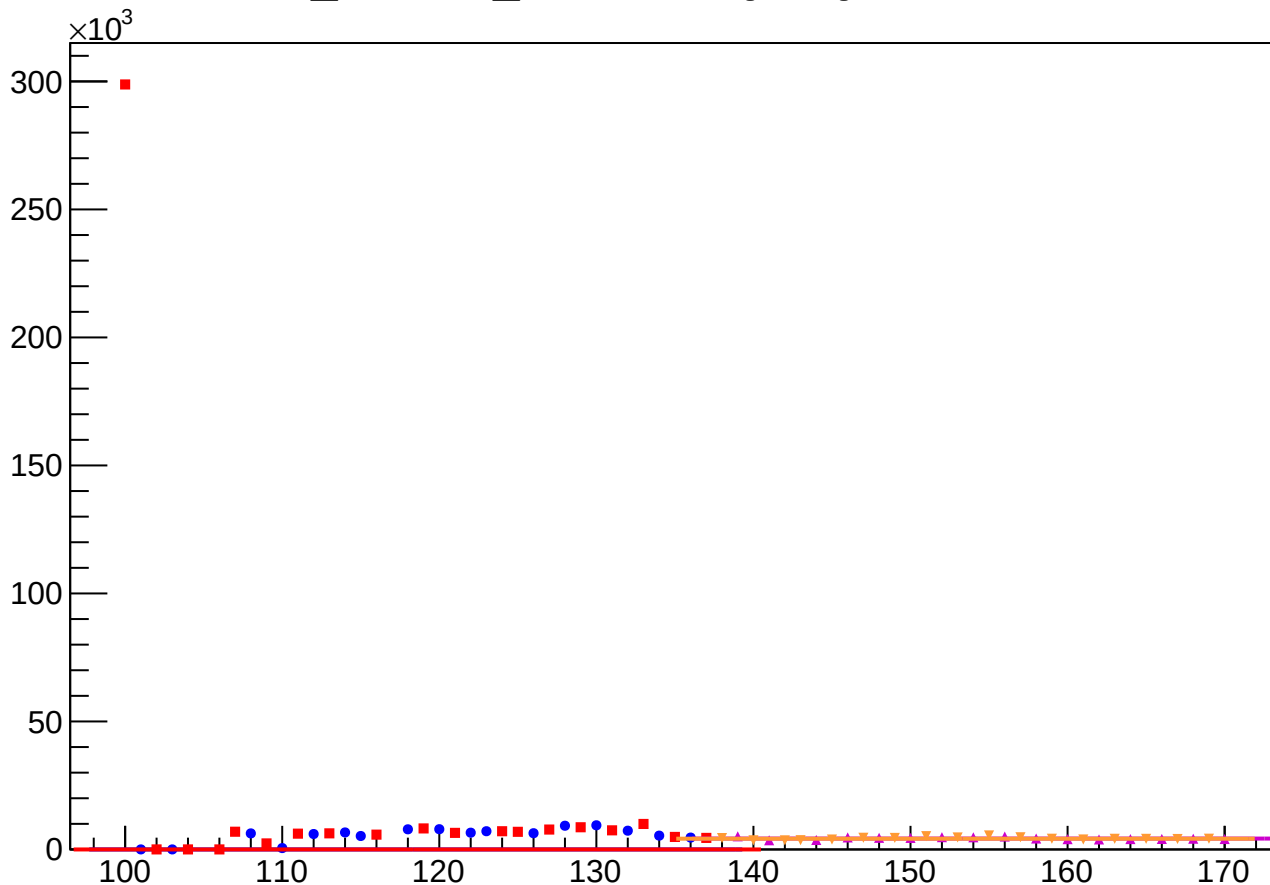
Right: 0.004 ± 0.014 χ^2/NDF : 35.4/35

In: -0.022 ± 0.021 χ^2/NDF : 29.6/32

Out: 0.025 ± 0.020 χ^2/NDF : 85.3/35

All: 0.003 ± 0.014 χ^2/NDF : 117.6/68

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.337 $\pm$ 0.015 χ^2 /NDF: 10359409.4/16

Left Out: 4204.749 $\pm$ 0.841 χ^2 /NDF: 335472.7/16

Right Out: 17.268 $\pm$ 0.014 χ^2 /NDF: 10813350.8/18

Left In: 4251.969 $\pm$ 0.856 χ^2 /NDF: 265249.2/15

Left: 4227.959 $\pm$ 0.600 χ^2 /NDF: 602270.9/32

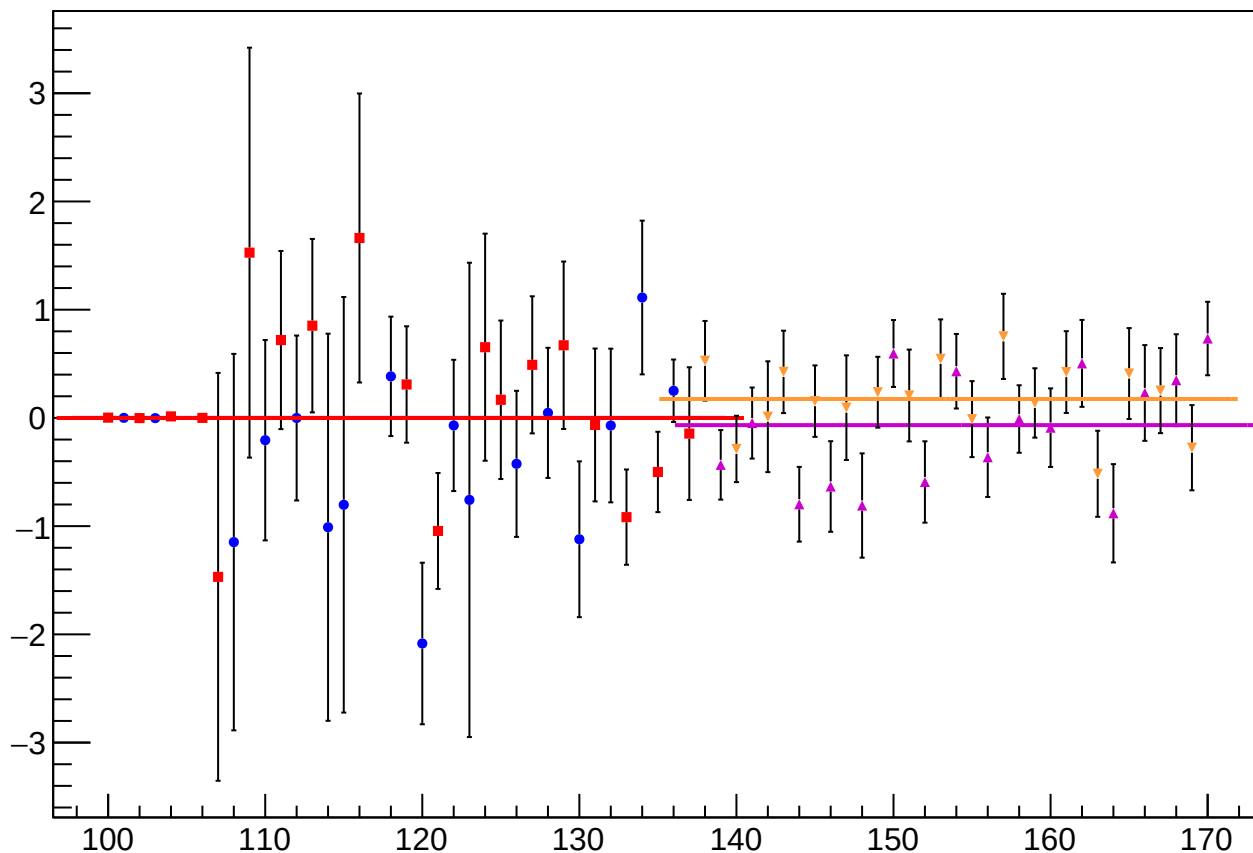
Right: 17.301 $\pm$ 0.010 χ^2 /NDF: 21172771.7/35

In: 18.587 $\pm$ 0.015 χ^2 /NDF: 35117885.3/32

Out: 18.425 $\pm$ 0.014 χ^2 /NDF: 35925355.2/35

All: 18.502 $\pm$ 0.010 χ^2 /NDF: 71043304.4/68

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 χ^2/NDF : 15.6/16

Left Out: 0.175 ± 0.091 χ^2/NDF : 12.4/16

Right Out: -0.001 ± 0.002 χ^2/NDF : 17.8/18

Left In: -0.067 ± 0.092 χ^2/NDF : 31.5/15

Left: 0.055 ± 0.065 χ^2/NDF : 47.4/32

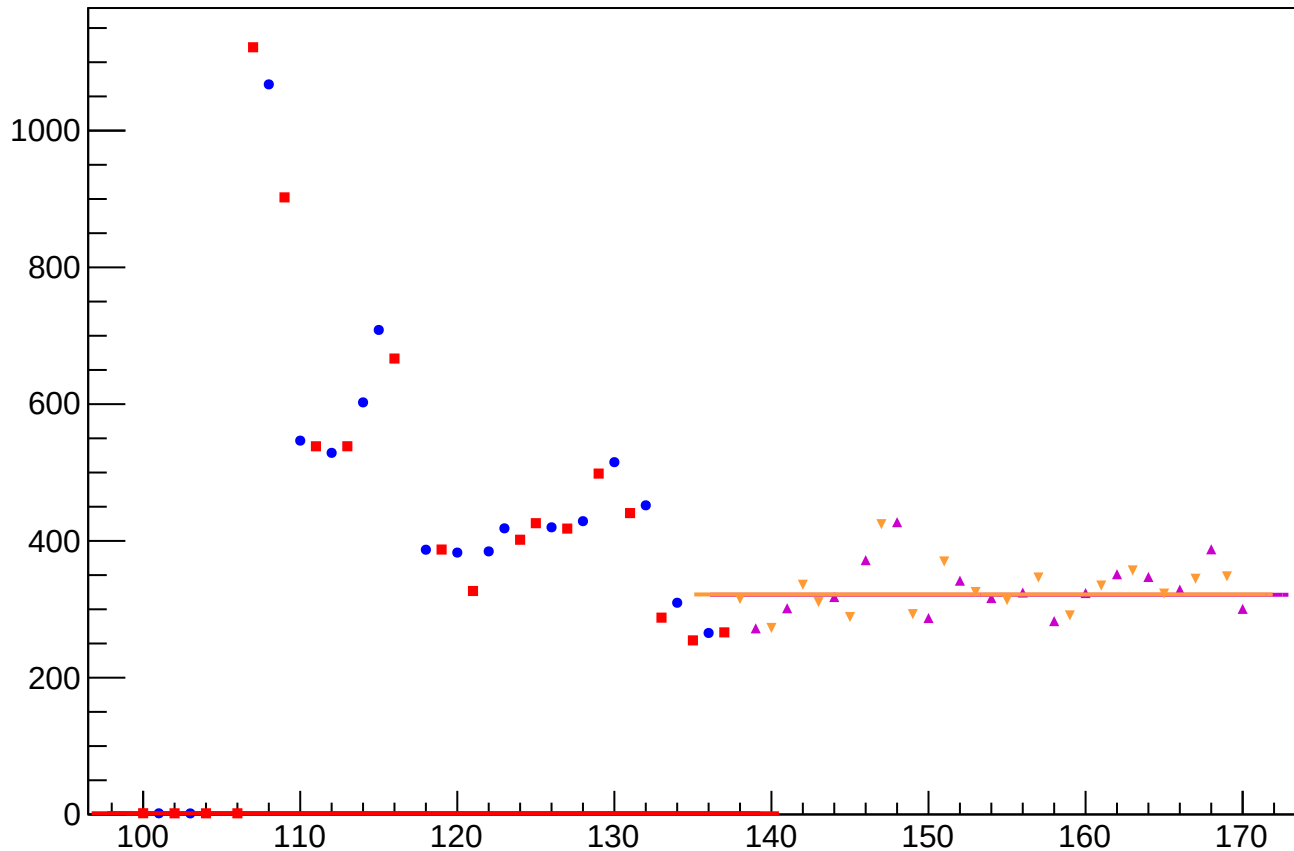
Right: -0.000 ± 0.001 χ^2/NDF : 33.6/35

In: 0.000 ± 0.002 χ^2/NDF : 47.7/32

Out: -0.001 ± 0.002 χ^2/NDF : 33.9/35

All: -0.000 ± 0.001 χ^2/NDF : 81.7/68

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.698 $\pm$ 0.001 χ^2 /NDF: 10911617.0/16

Left Out: 321.728 $\pm$ 0.064 χ^2 /NDF: 268030.8/16

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 10736674.8/18

Left In: 321.251 $\pm$ 0.065 χ^2 /NDF: 316588.8/15

Left: 321.491 $\pm$ 0.046 χ^2 /NDF: 584646.7/32

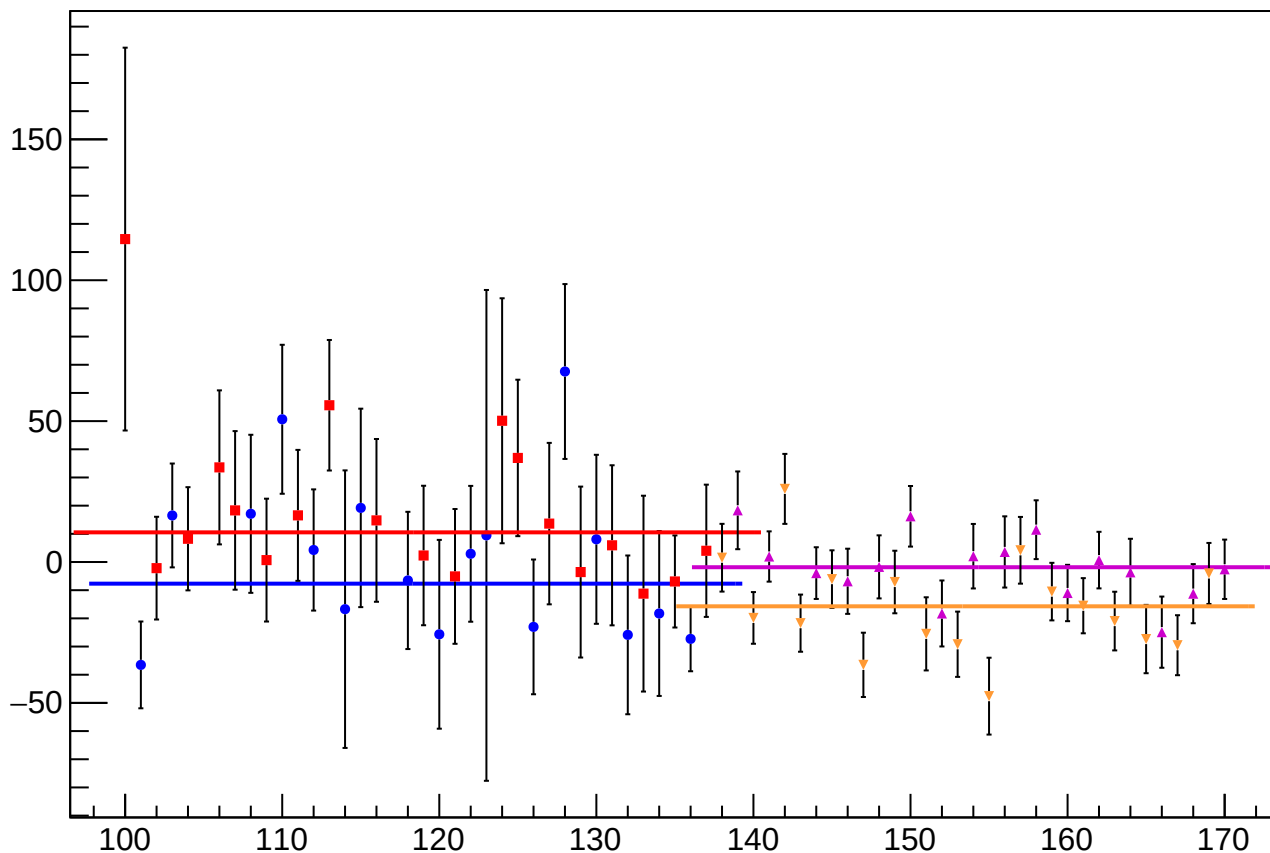
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 21648518.8/35

In: 1.854 $\pm$ 0.001 χ^2 /NDF: 35517605.2/32

Out: 1.874 $\pm$ 0.001 χ^2 /NDF: 35738525.9/35

All: 1.864 $\pm$ 0.001 χ^2 /NDF: 71256225.8/68

diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -7.683 ± 5.627 $\chi^2/\text{NDF}: 22.4/16$

Left Out: -15.721 ± 2.676 $\chi^2/\text{NDF}: 33.2/16$

Right Out: 10.524 ± 5.682 $\chi^2/\text{NDF}: 11.9/18$

Left In: -1.850 ± 2.716 $\chi^2/\text{NDF}: 14.3/15$

Left: -8.890 ± 1.906 $\chi^2/\text{NDF}: 60.7/32$

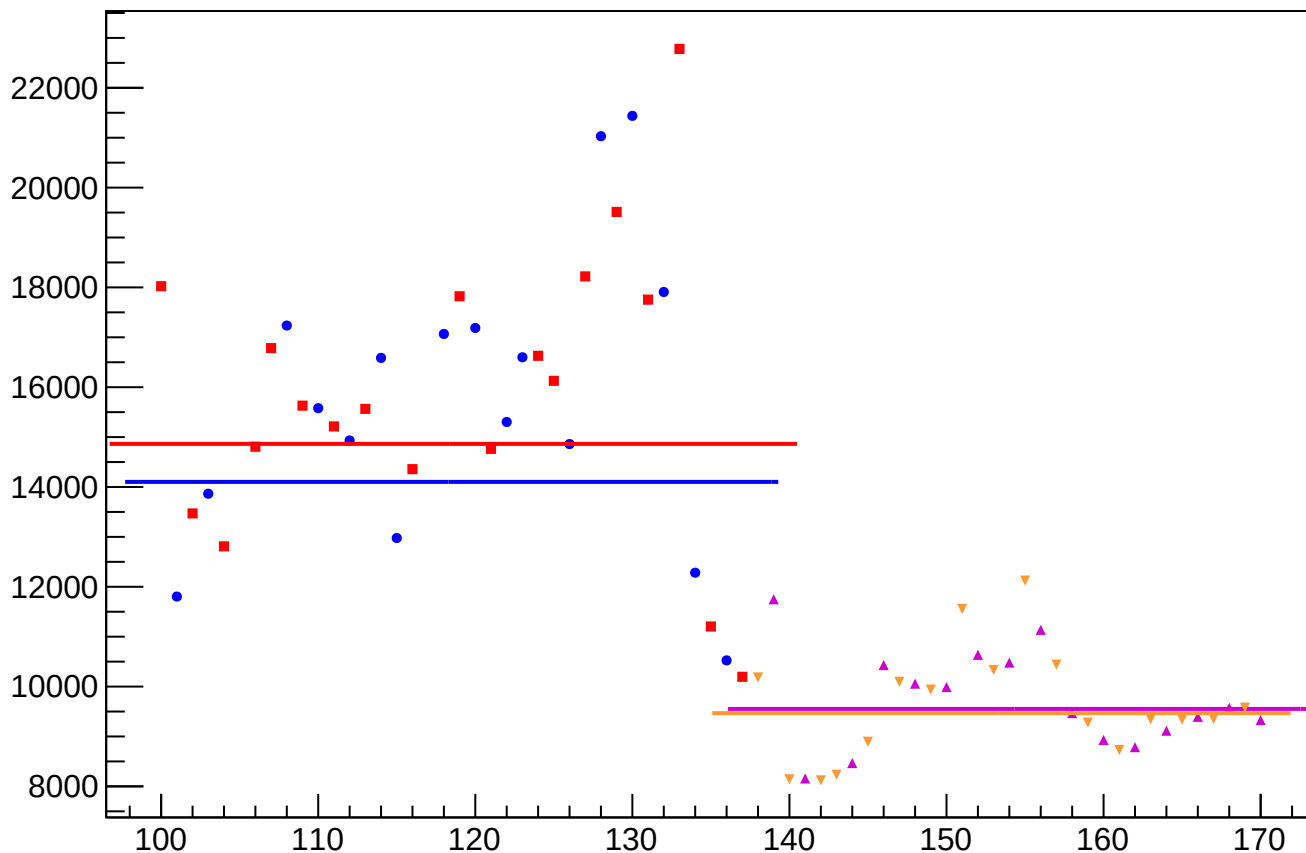
Right: 1.332 ± 3.998 $\chi^2/\text{NDF}: 39.4/35$

In: -2.952 ± 2.446 $\chi^2/\text{NDF}: 37.6/32$

Out: -10.958 ± 2.421 $\chi^2/\text{NDF}: 62.5/35$

All: -6.997 ± 1.721 $\chi^2/\text{NDF}: 105.5/68$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 14102.522 $\pm$ 3.979 χ^2 /NDF: 598934.8/16

Left Out: 9468.006 $\pm$ 1.892 χ^2 /NDF: 283155.4/16

Right Out: 14864.163 $\pm$ 4.018 χ^2 /NDF: 470280.3/18

Left In: 9552.405 $\pm$ 1.921 χ^2 /NDF: 231737.3/15

Left: 9509.567 $\pm$ 1.348 χ^2 /NDF: 515872.6/32

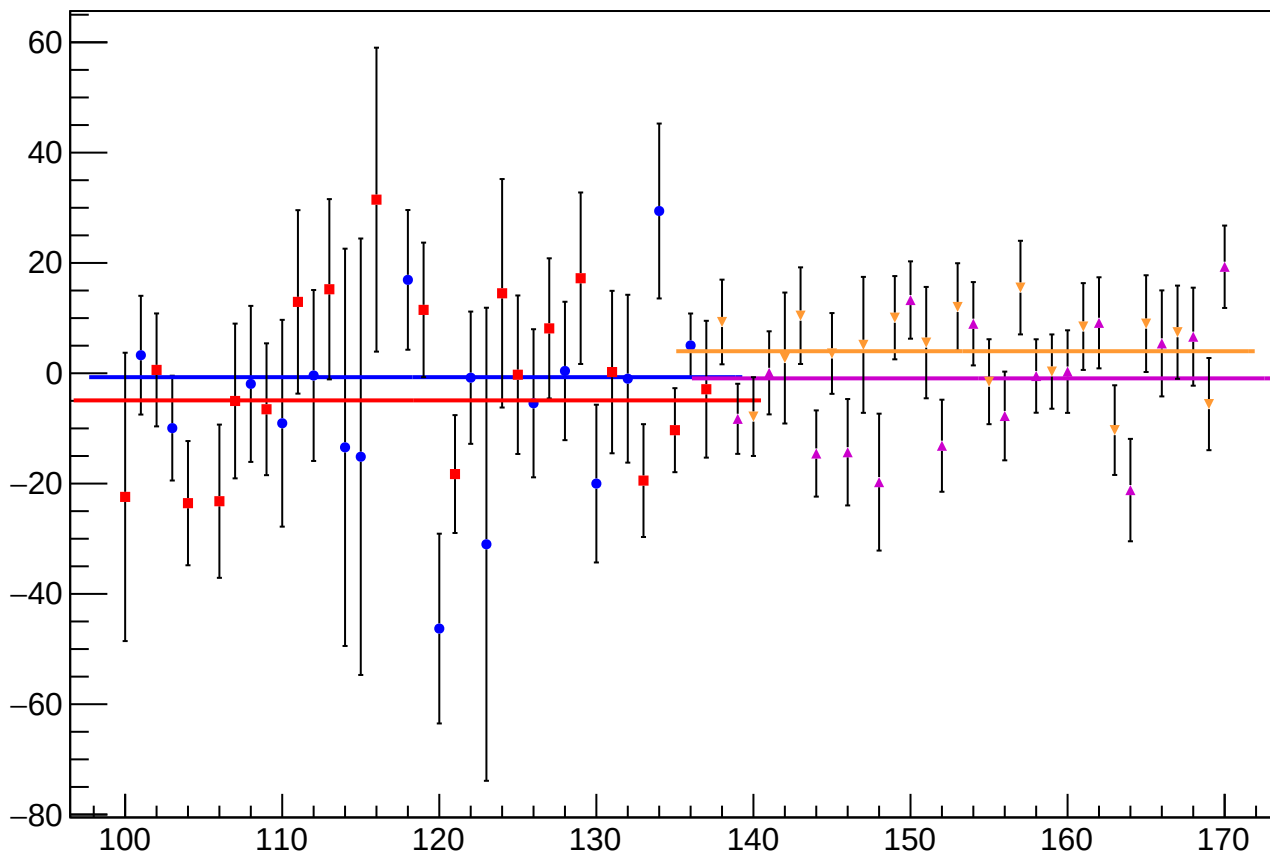
Right: 14479.636 $\pm$ 2.827 χ^2 /NDF: 1087356.3/35

In: 10412.289 $\pm$ 1.730 χ^2 /NDF: 1891194.9/32

Out: 10447.294 $\pm$ 1.712 χ^2 /NDF: 2229784.8/35

All: 10429.976 $\pm$ 1.217 χ^2 /NDF: 4121186.7/66

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -0.708 ± 3.084 χ^2/NDF : 17.6/16

Left Out: 3.995 ± 1.998 χ^2/NDF : 13.4/16

Right Out: -4.918 ± 2.940 χ^2/NDF : 19.8/18

Left In: -0.926 ± 1.993 χ^2/NDF : 32.1/15

Left: 1.529 ± 1.411 χ^2/NDF : 48.5/32

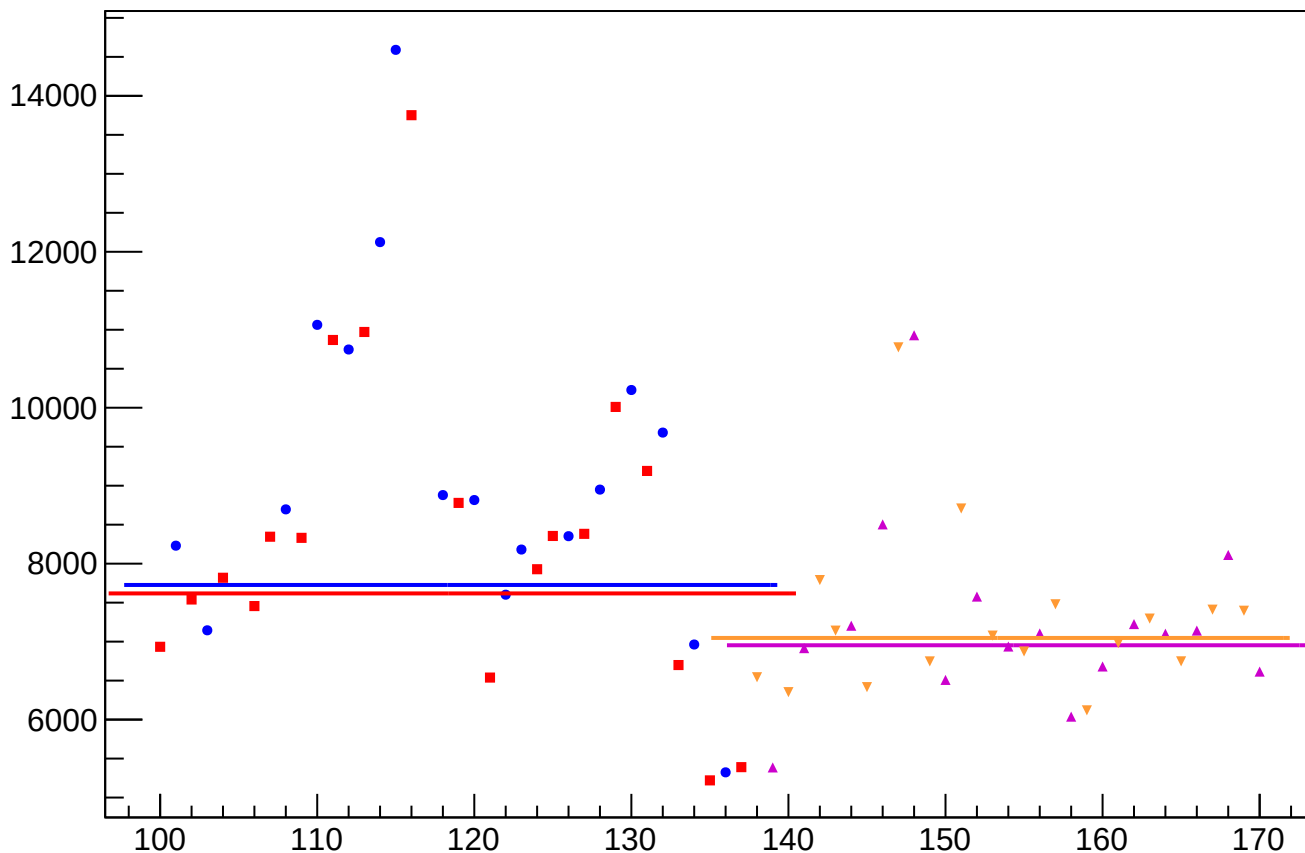
Right: -2.914 ± 2.128 χ^2/NDF : 38.3/35

In: -0.862 ± 1.674 χ^2/NDF : 49.6/32

Out: 1.180 ± 1.652 χ^2/NDF : 39.4/35

All: 0.172 ± 1.176 χ^2/NDF : 89.8/68

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7726.745 $\pm$ 2.180 χ^2 /NDF: 742512.8/16

Left Out: 7047.163 $\pm$ 1.413 χ^2 /NDF:346477.3/16

Right Out: 7618.206 $\pm$ 2.079 χ^2 /NDF: 675125.4/18

Left In: 6953.293 $\pm$ 1.409 χ^2 /NDF:482647.7/15

Left: 7000.117 $\pm$ 0.998 χ^2 /NDF: 831338.5/32

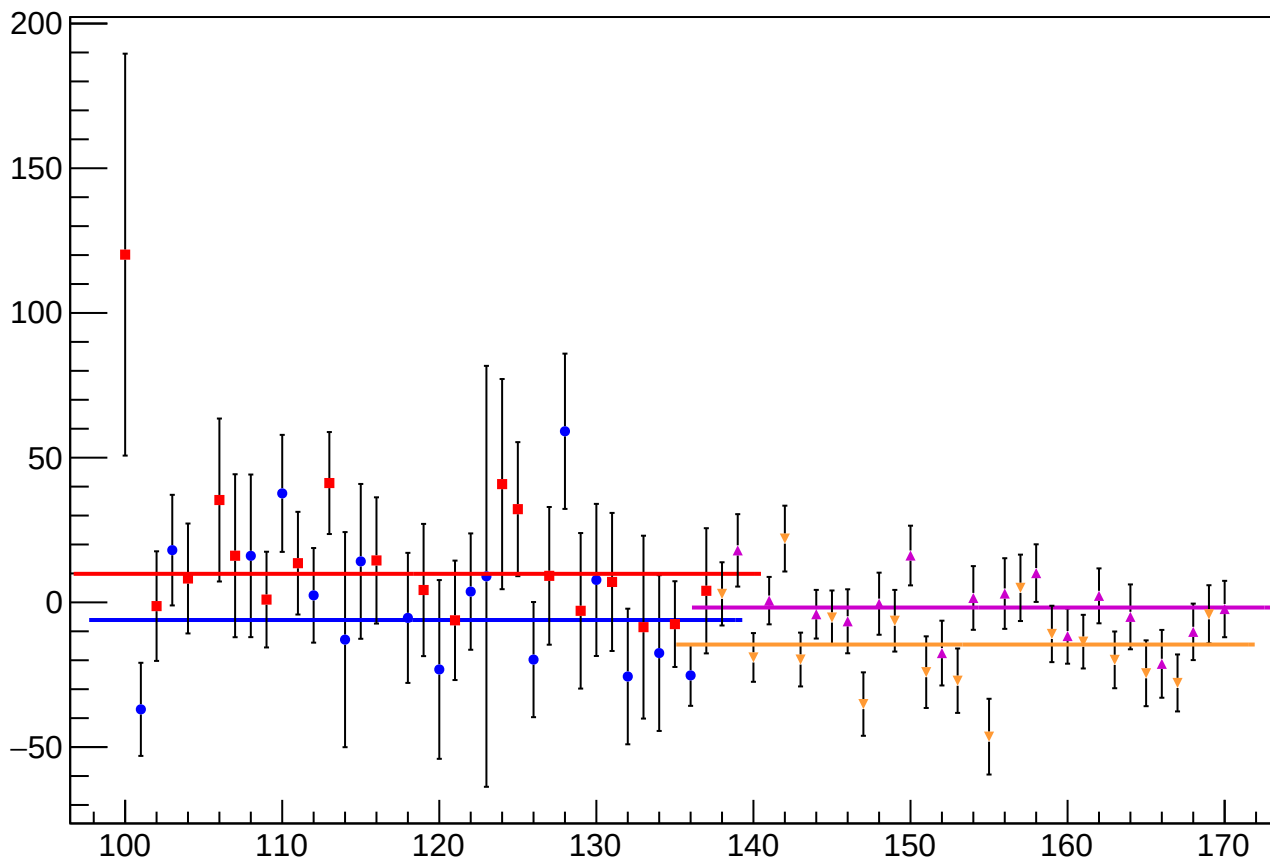
Right: 7669.883 $\pm$ 1.504 χ^2 /NDF: 1418936.4/35

In: 7181.175 $\pm$ 1.184 χ^2 /NDF:1313921.7/32

Out: 7227.562 $\pm$ 1.168 χ^2 /NDF:1073235.0/35

All: 7204.669 $\pm$ 0.831 χ^2 /NDF: 2387934.8/68

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -6.092 ± 5.034 χ^2/NDF : 22.9/16

Left Out: -14.566 ± 2.508 χ^2/NDF : 33.4/16

Right Out: 9.864 ± 5.004 χ^2/NDF : 11.6/18

Left In: -1.781 ± 2.555 χ^2/NDF : 14.4/15

Left: -8.293 ± 1.790 χ^2/NDF : 60.6/32

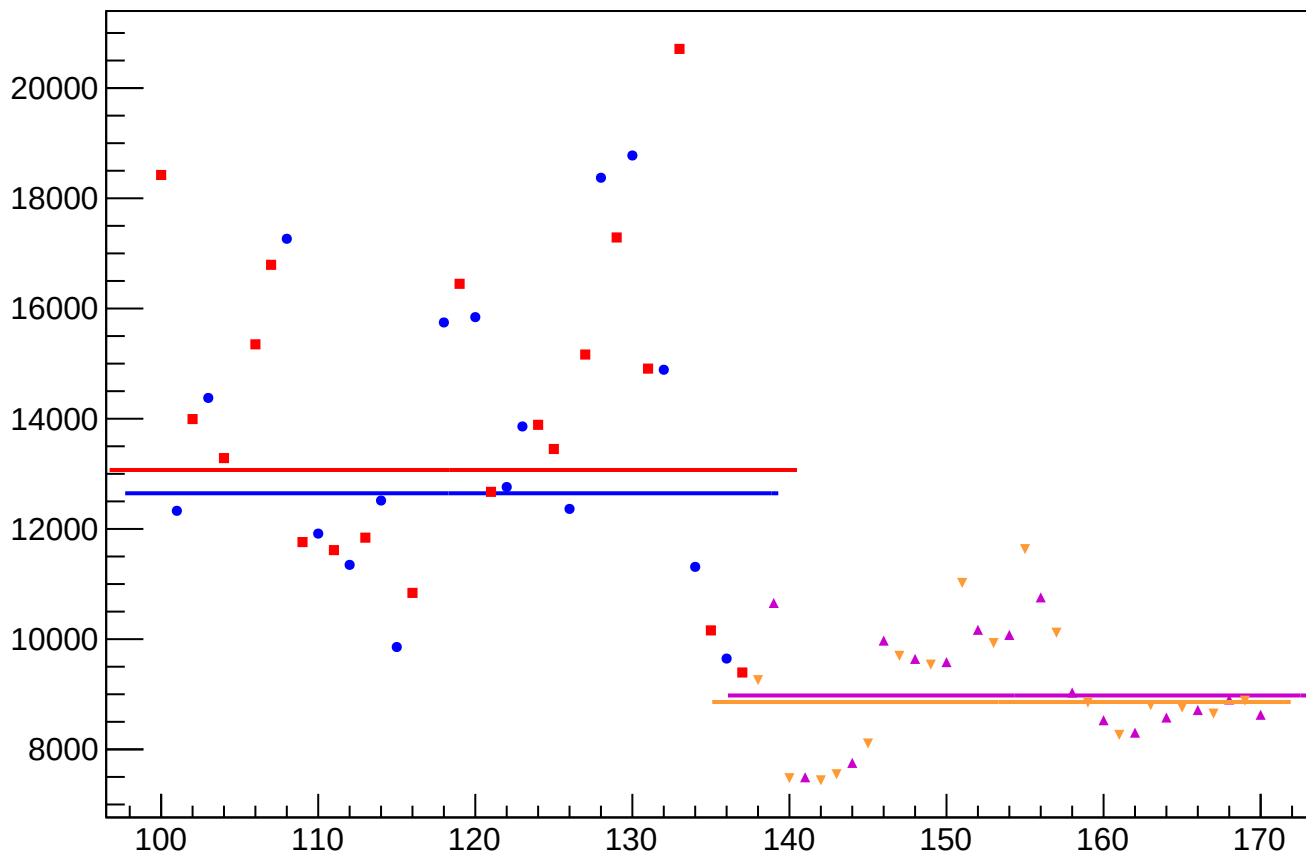
Right: 1.934 ± 3.549 χ^2/NDF : 39.6/35

In: -2.664 ± 2.279 χ^2/NDF : 37.8/32

Out: -9.661 ± 2.242 χ^2/NDF : 64.1/35

All: -6.219 ± 1.598 χ^2/NDF : 106.8/68

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12647.257 $\pm$ 3.559 χ^2/NDF : 554320.4/16

Left Out: 8859.757 $\pm$ 1.773 χ^2/NDF :363107.0/16

Right Out: 13069.930 $\pm$ 3.538 χ^2/NDF : 496271.7/18

Left In: 8978.107 $\pm$ 1.807 χ^2/NDF :280797.3/15

Left: 8917.822 $\pm$ 1.266 χ^2/NDF : 646089.4/32

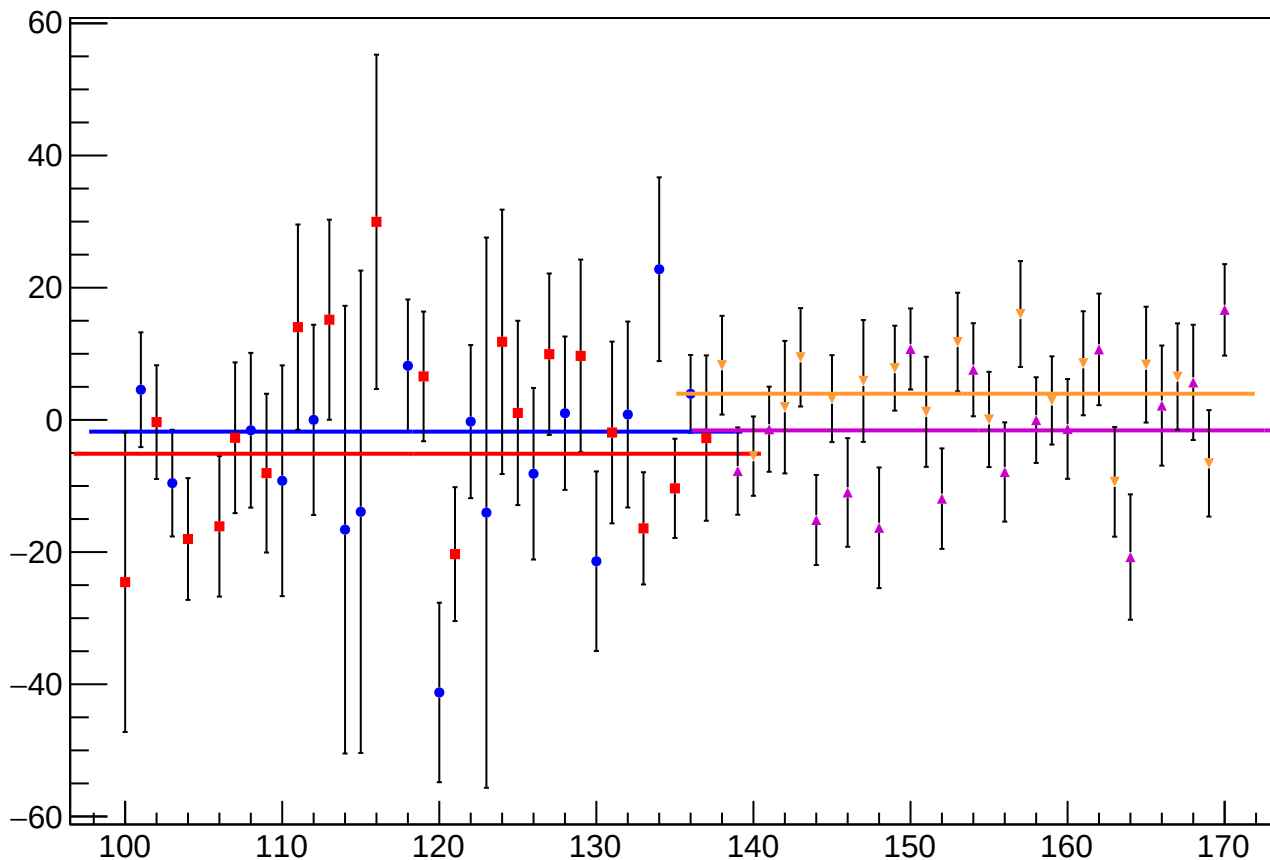
Right: 12859.864 $\pm$ 2.509 χ^2/NDF : 1057685.3/35

In: 9729.965 $\pm$ 1.611 χ^2/NDF :1680011.4/32

Out: 9705.133 $\pm$ 1.585 χ^2/NDF :1991094.6/35

All: 9717.348 $\pm$ 1.130 χ^2/NDF : 3671226.6/68

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: -1.777 $\pm$ 2.806 χ^2/NDF : 18.0/16

Left Out: 3.961 $\pm$ 1.835 χ^2/NDF :12.6/16

Right Out: -5.122 $\pm$ 2.642 χ^2/NDF : 18.9/18

Left In: -1.588 $\pm$ 1.857 χ^2/NDF :31.1/15

Left: 1.220 $\pm$ 1.305 χ^2/NDF : 48.2/32

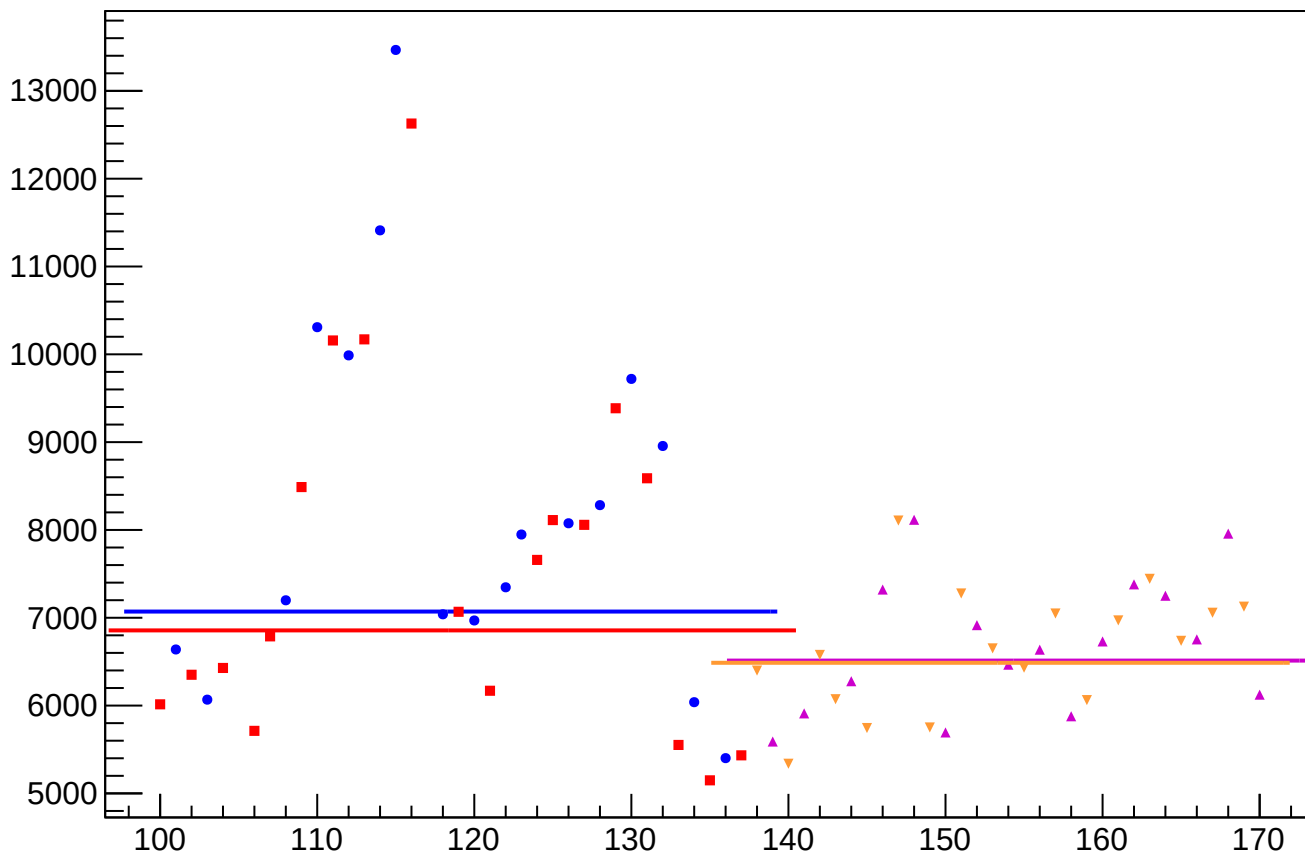
Right: -3.550 $\pm$ 1.923 χ^2/NDF : 37.6/35

In: -1.646 $\pm$ 1.549 χ^2/NDF :49.1/32

Out: 1.005 $\pm$ 1.507 χ^2/NDF :39.5/35

All: -0.284 $\pm$ 1.080 χ^2/NDF : 90.0/68

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 7070.672 $\pm$ 1.984 χ^2/NDF : 601692.5/16

Left Out: 6487.310 $\pm$ 1.298 χ^2/NDF : 288865.1/16

Right Out: 6856.136 $\pm$ 1.868 χ^2/NDF : 682220.3/18

Left In: 6512.344 $\pm$ 1.313 χ^2/NDF : 298656.9/15

Left: 6499.677 $\pm$ 0.923 χ^2/NDF : 587705.9/32

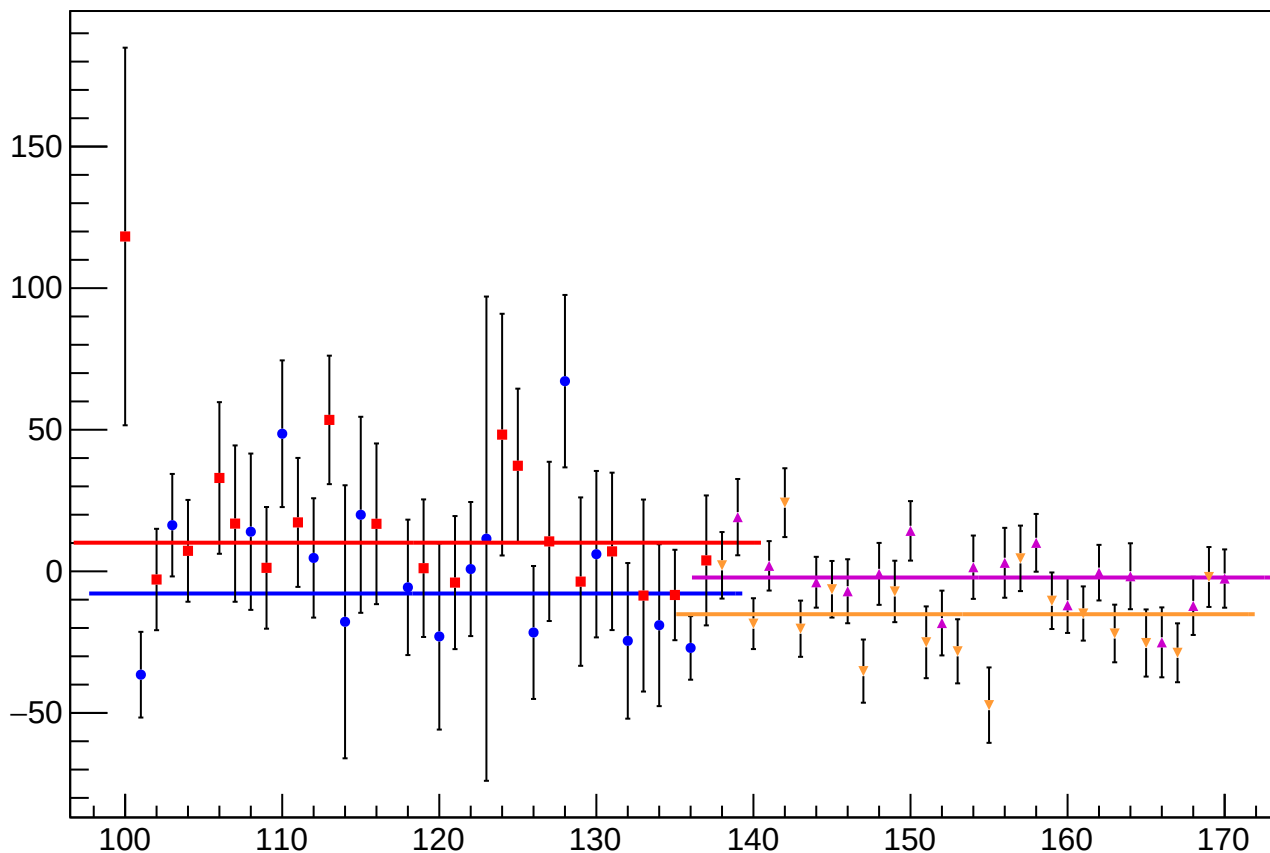
Right: 6956.947 $\pm$ 1.360 χ^2/NDF : 1290110.2/35

In: 6682.424 $\pm$ 1.095 χ^2/NDF : 955411.8/32

Out: 6607.341 $\pm$ 1.066 χ^2/NDF : 997380.1/35

All: 6643.861 $\pm$ 0.764 χ^2/NDF : 1955206.2/68

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -7.825 ± 5.516 $\chi^2/\text{NDF}: 22.3/16$

Left Out: -15.139 ± 2.616 $\chi^2/\text{NDF}: 33.0/16$

Right Out: 10.117 ± 5.571 $\chi^2/\text{NDF}: 12.2/18$

Left In: -2.177 ± 2.655 $\chi^2/\text{NDF}: 14.6/15$

Left: -8.755 ± 1.863 $\chi^2/\text{NDF}: 59.6/32$

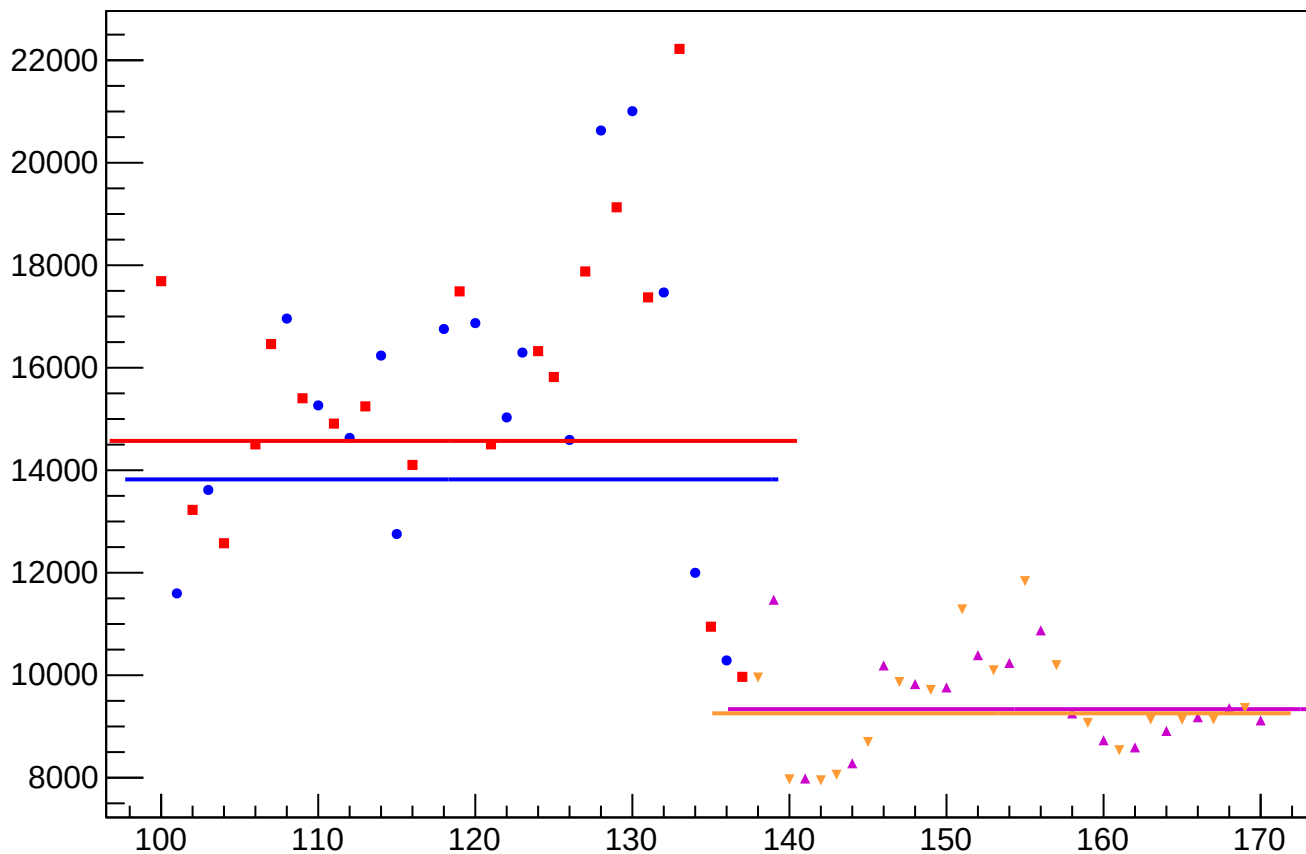
Right: 1.056 ± 3.920 $\chi^2/\text{NDF}: 39.7/35$

In: -3.239 ± 2.392 $\chi^2/\text{NDF}: 37.7/32$

Out: -10.578 ± 2.368 $\chi^2/\text{NDF}: 62.0/35$

All: -6.947 ± 1.683 $\chi^2/\text{NDF}: 104.4/68$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13821.195 $\pm$ 3.900 χ^2 /NDF: 602672.4/16

Left Out: 9256.444 $\pm$ 1.849 χ^2 /NDF: 279932.3/16

Right Out: 14572.437 $\pm$ 3.939 χ^2 /NDF: 472468.2/18

Left In: 9337.795 $\pm$ 1.877 χ^2 /NDF: 228979.9/15

Left: 9296.508 $\pm$ 1.318 χ^2 /NDF: 509865.0/32

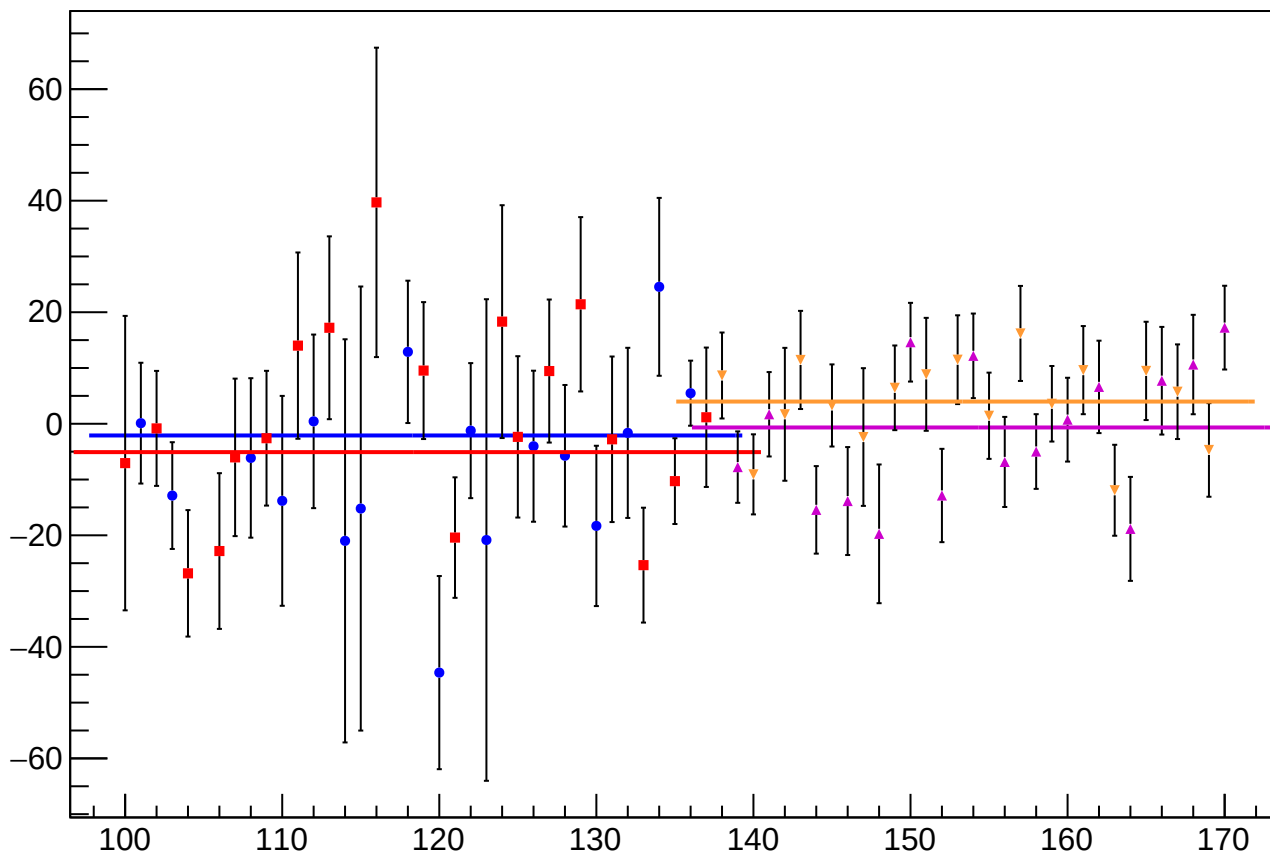
Right: 14193.062 $\pm$ 2.772 χ^2 /NDF: 1093505.5/35

In: 10181.232 $\pm$ 1.692 χ^2 /NDF: 1904466.0/32

Out: 10216.510 $\pm$ 1.674 χ^2 /NDF: 2244517.8/35

All: 10199.055 $\pm$ 1.190 χ^2 /NDF: 4149203.5/68

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -2.098 ± 3.106 $\chi^2/\text{NDF}: 15.6/16$

Left Out: 3.983 ± 2.006 $\chi^2/\text{NDF}: 13.9/16$

Right Out: -5.085 ± 2.962 $\chi^2/\text{NDF}: 24.8/18$

Left In: -0.664 ± 2.002 $\chi^2/\text{NDF}: 32.4/15$

Left: 1.654 ± 1.417 $\chi^2/\text{NDF}: 49.0/32$

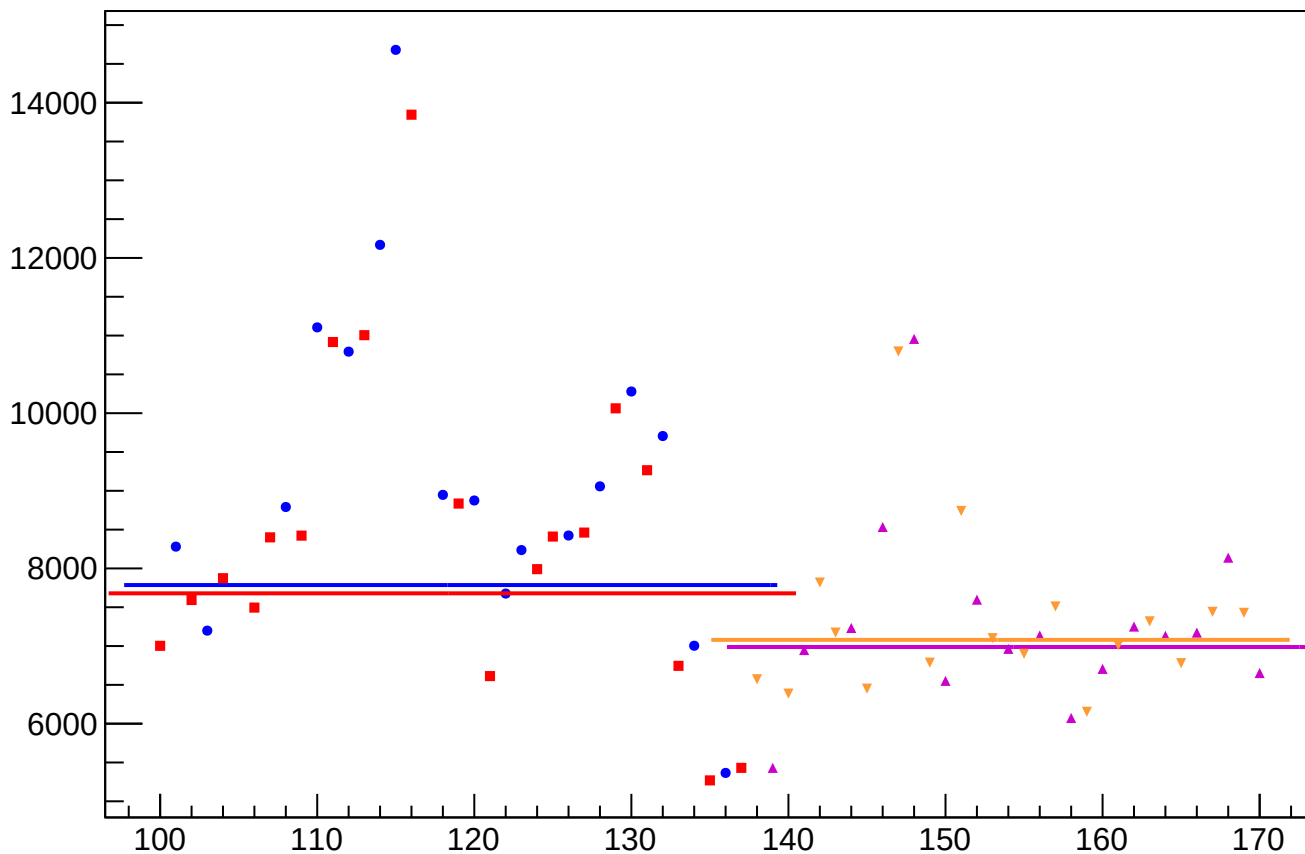
Right: -3.662 ± 2.144 $\chi^2/\text{NDF}: 40.9/35$

In: -1.085 ± 1.683 $\chi^2/\text{NDF}: 48.2/32$

Out: 1.131 ± 1.661 $\chi^2/\text{NDF}: 45.1/35$

All: 0.037 ± 1.182 $\chi^2/\text{NDF}: 94.2/68$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7785.931 $\pm$ 2.197 χ^2 /NDF: 738101.9/16

Left Out: 7079.649 $\pm$ 1.419 χ^2 /NDF:342560.8/16

Right Out: 7679.182 $\pm$ 2.095 χ^2 /NDF: 668736.8/18

Left In: 6987.722 $\pm$ 1.416 χ^2 /NDF:474601.6/15

Left: 7033.589 $\pm$ 1.002 χ^2 /NDF: 819265.9/32

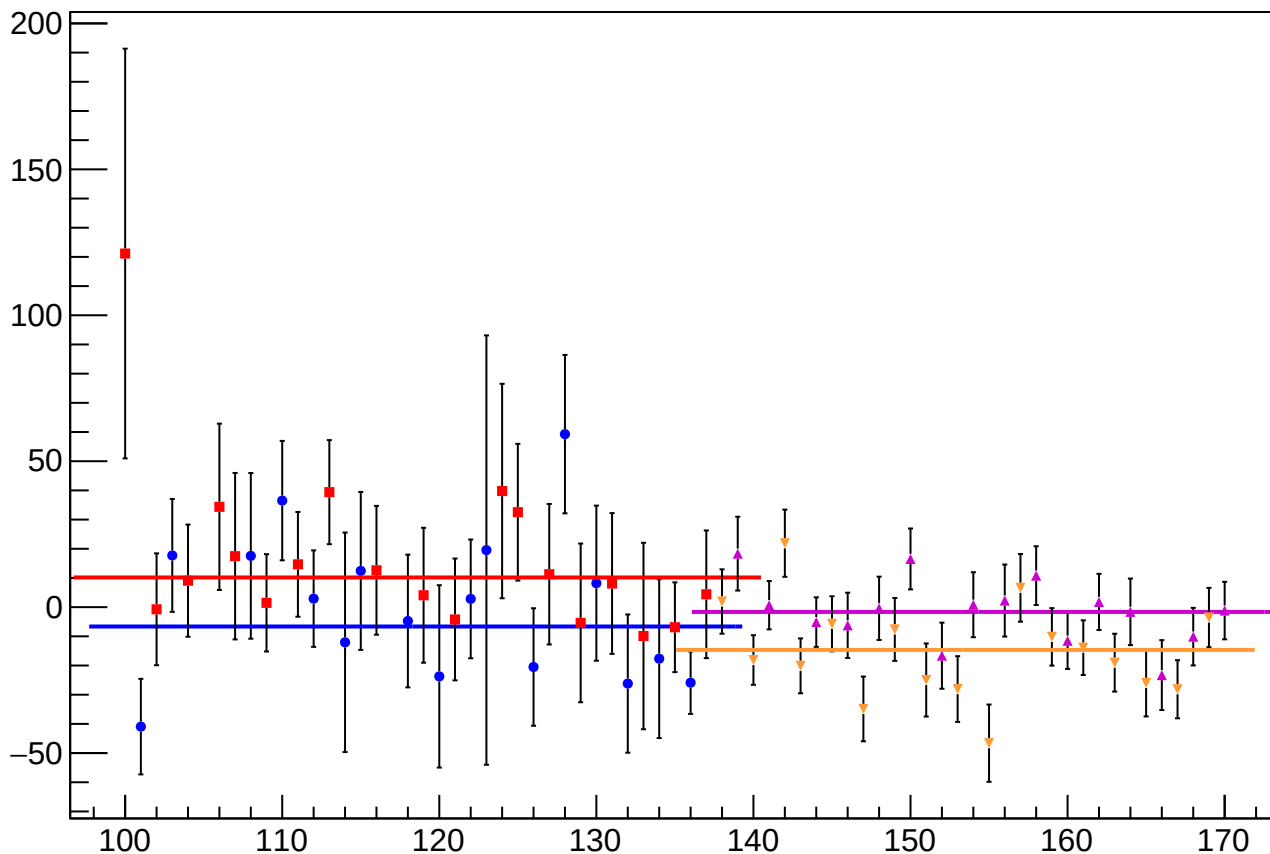
Right: 7730.020 $\pm$ 1.516 χ^2 /NDF: 1408075.7/35

In: 7221.997 $\pm$ 1.190 χ^2 /NDF:1305994.4/32

Out: 7268.205 $\pm$ 1.175 χ^2 /NDF:1067458.1/35

All: 7245.401 $\pm$ 0.836 χ^2 /NDF: 2374216.2/68

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -6.634 $\pm$ 5.101 χ^2/NDF : 23.4/16

Left Out: -14.656 $\pm$ 2.535 χ^2/NDF : 33.2/16

Right Out: 10.172 $\pm$ 5.075 χ^2/NDF : 10.8/18

Left In: -1.639 $\pm$ 2.587 χ^2/NDF : 14.6/15

Left: -8.278 $\pm$ 1.811 χ^2/NDF : 60.7/32

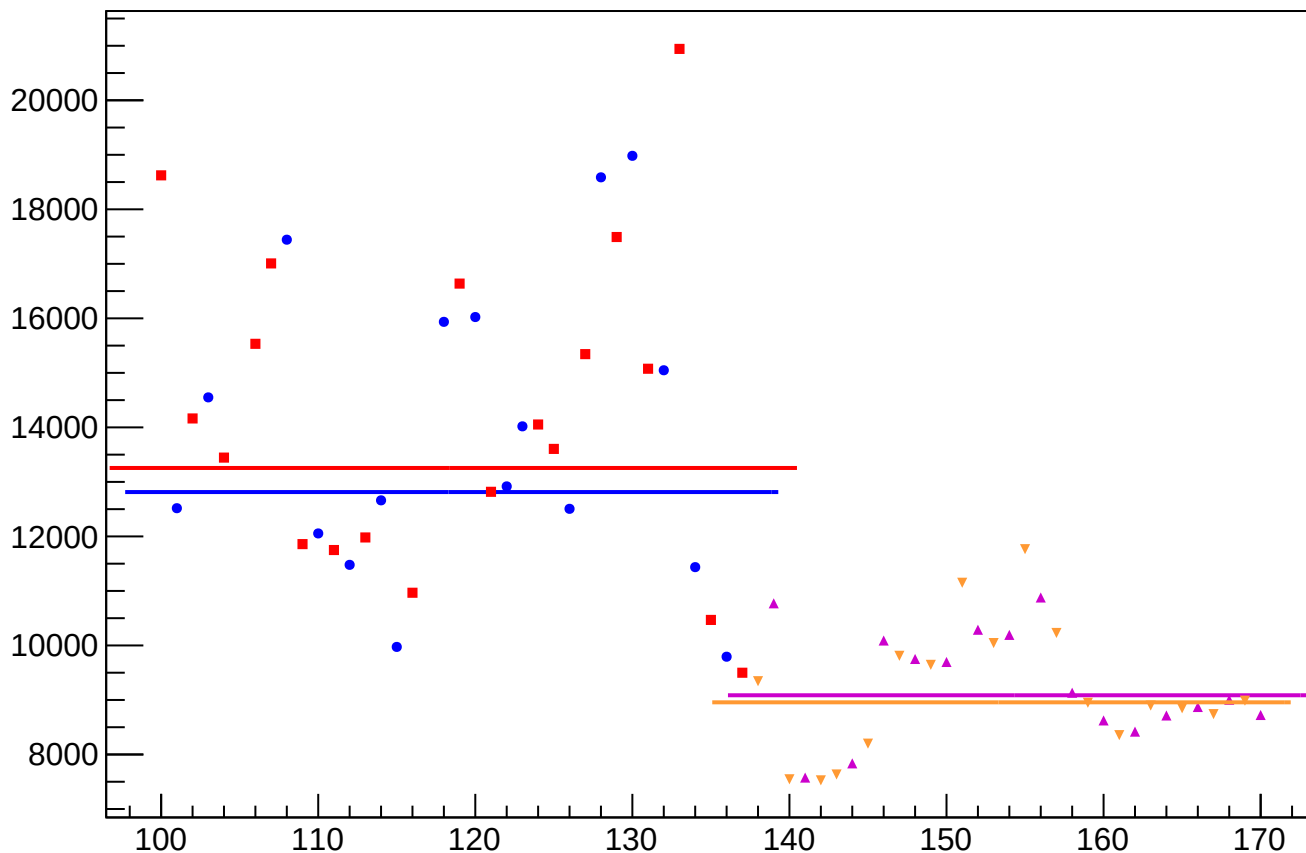
Right: 1.813 $\pm$ 3.598 χ^2/NDF : 39.7/35

In: -2.661 $\pm$ 2.307 χ^2/NDF : 38.7/32

Out: -9.696 $\pm$ 2.268 χ^2/NDF : 63.1/35

All: -6.239 $\pm$ 1.617 χ^2/NDF : 106.6/68

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12813.726+/-3.607 χ^2/NDF : 548127.6/16

Left Out: 8956.647+/-1.793 χ^2/NDF : 364720.4/16

Right Out: 13255.535+/-3.588 χ^2/NDF : 484287.4/18

Left In: 9086.217+/-1.829 χ^2/NDF : 280156.6/15

Left: 9020.133+/-1.280 χ^2/NDF : 647436.0/32

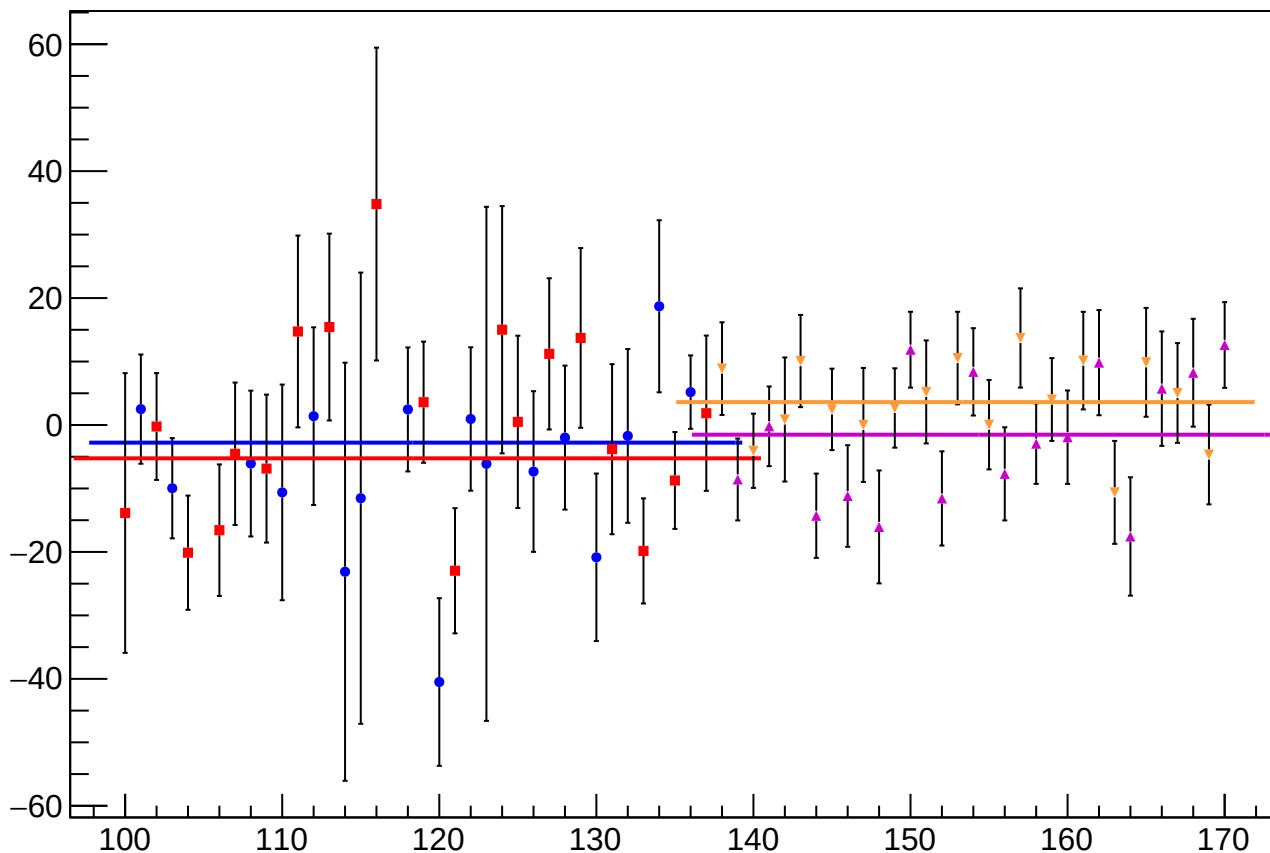
Right: 13035.784+/-2.544 χ^2/NDF : 1039954.9/35

In: 9848.661+/-1.631 χ^2/NDF : 1677691.3/32

Out: 9815.390+/-1.604 χ^2/NDF : 1997500.2/35

All: 9831.742+/-1.144 χ^2/NDF : 3675403.0/68

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -2.778 $\pm$ 2.747 χ^2/NDF : 17.0/16

Left Out: 3.608 $\pm$ 1.791 χ^2/NDF : 11.7/16

Right Out: -5.252 $\pm$ 2.590 χ^2/NDF : 23.5/18

Left In: -1.526 $\pm$ 1.815 χ^2/NDF : 29.9/15

Left: 1.075 $\pm$ 1.275 χ^2/NDF : 45.7/32

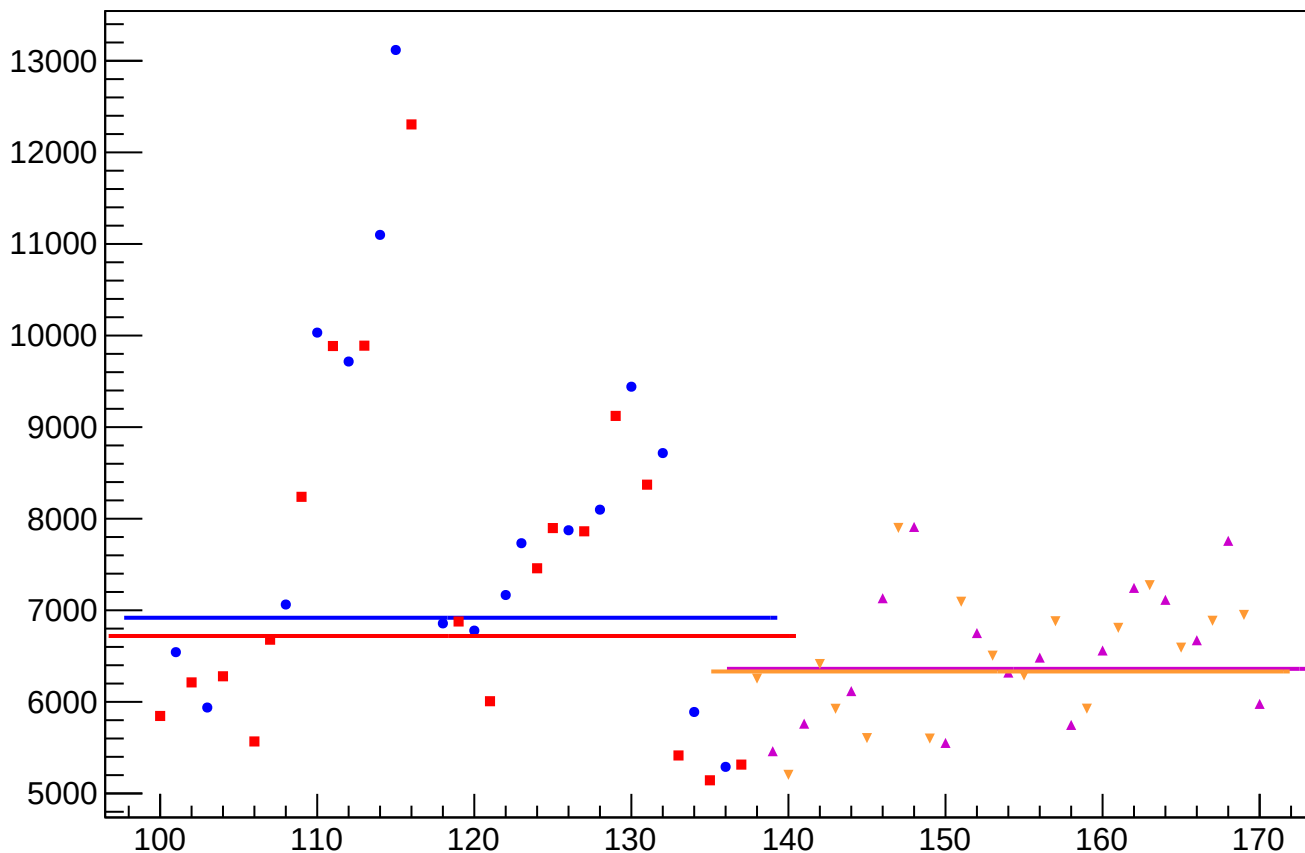
Right: -4.088 $\pm$ 1.884 χ^2/NDF : 41.0/35

In: -1.906 $\pm$ 1.514 χ^2/NDF : 47.1/32

Out: 0.741 $\pm$ 1.473 χ^2/NDF : 43.1/35

All: -0.546 $\pm$ 1.056 χ^2/NDF : 91.8/68

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6918.554 ± 1.943 $\chi^2/\text{NDF}: 587976.6/16$

Left Out: 6331.917 ± 1.266 $\chi^2/\text{NDF}: 290287.1/16$

Right Out: 6719.404 ± 1.831 $\chi^2/\text{NDF}: 653831.7/18$

Left In: 6360.682 ± 1.283 $\chi^2/\text{NDF}: 300661.3/15$

Left: 6346.111 ± 0.901 $\chi^2/\text{NDF}: 591203.0/32$

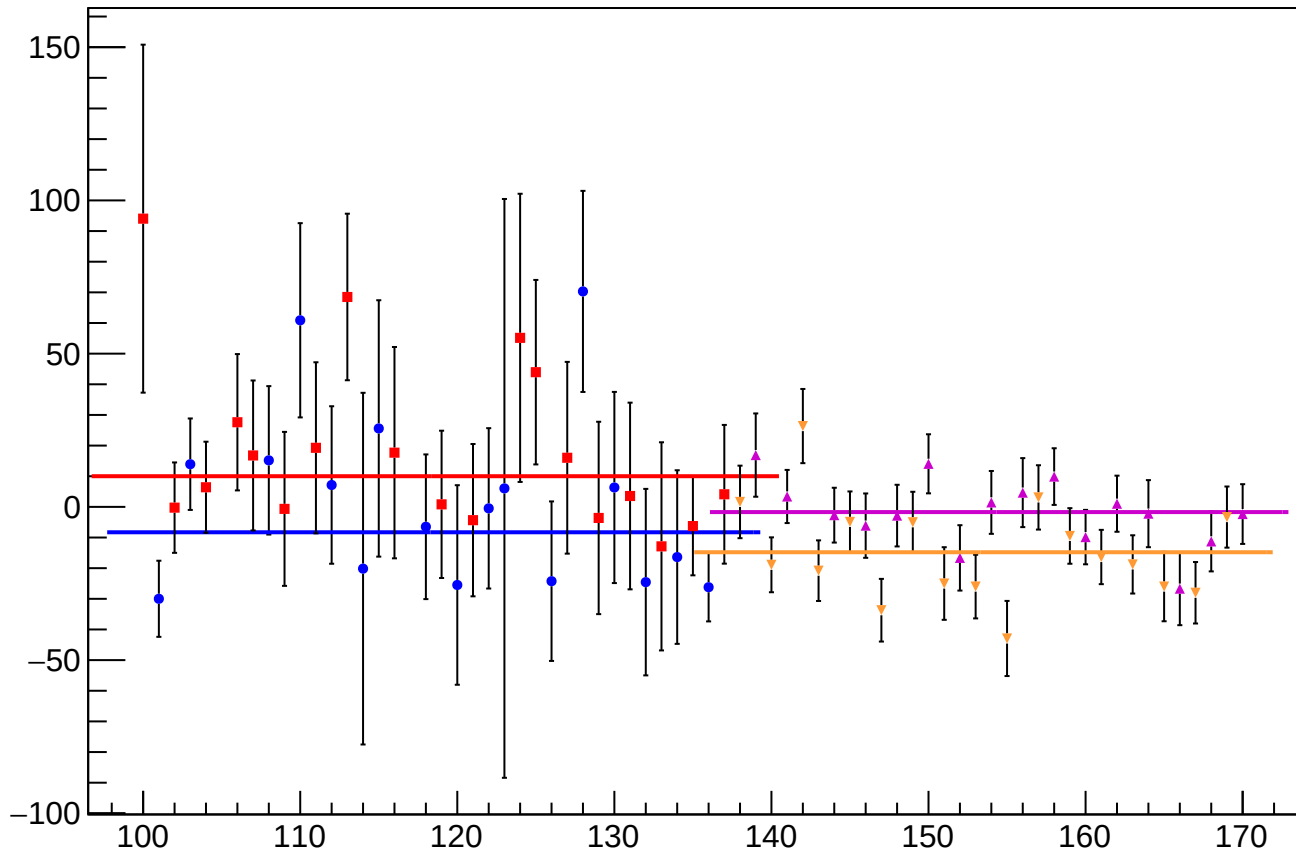
Right: 6813.106 ± 1.332 $\chi^2/\text{NDF}: 1247373.6/35$

In: 6530.165 ± 1.071 $\chi^2/\text{NDF}: 946059.2/32$

Out: 6457.299 ± 1.042 $\chi^2/\text{NDF}: 974408.0/35$

All: 6492.730 ± 0.747 $\chi^2/\text{NDF}: 1922846.6/68$

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -8.286 $\pm$ 5.410 χ^2/NDF : 21.7/16

Left Out: -14.801 $\pm$ 2.482 χ^2/NDF : 34.1/16

Right Out: 10.007 $\pm$ 5.513 χ^2/NDF : 12.9/18

Left In: -1.697 $\pm$ 2.501 χ^2/NDF : 15.3/15

Left: -8.301 $\pm$ 1.762 χ^2/NDF : 63.3/32

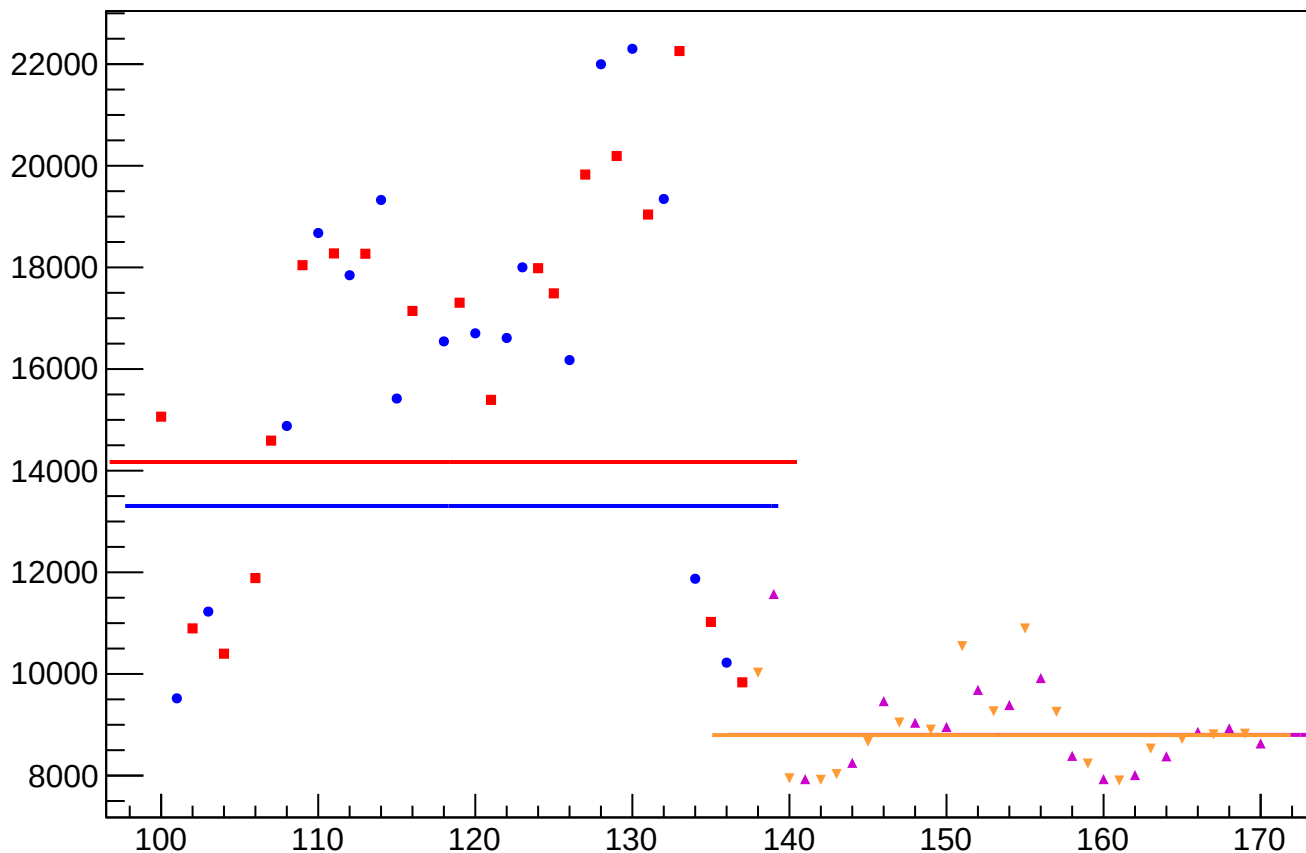
Right: 0.688 $\pm$ 3.861 χ^2/NDF : 40.2/35

In: -2.857 $\pm$ 2.270 χ^2/NDF : 38.3/32

Out: -10.621 $\pm$ 2.263 χ^2/NDF : 63.9/35

All: -6.752 $\pm$ 1.603 χ^2/NDF : 108.0/68

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 13305.410 $\pm$ 3.826 χ^2 /NDF: 1044091.1/16

Left Out: 8797.255 $\pm$ 1.755 χ^2 /NDF:203681.1/16

Right Out: 14170.668 $\pm$ 3.898 χ^2 /NDF: 930612.1/18

Left In: 8800.971 $\pm$ 1.769 χ^2 /NDF:202787.2/15

Left: 8799.098 $\pm$ 1.246 χ^2 /NDF: 406470.5/32

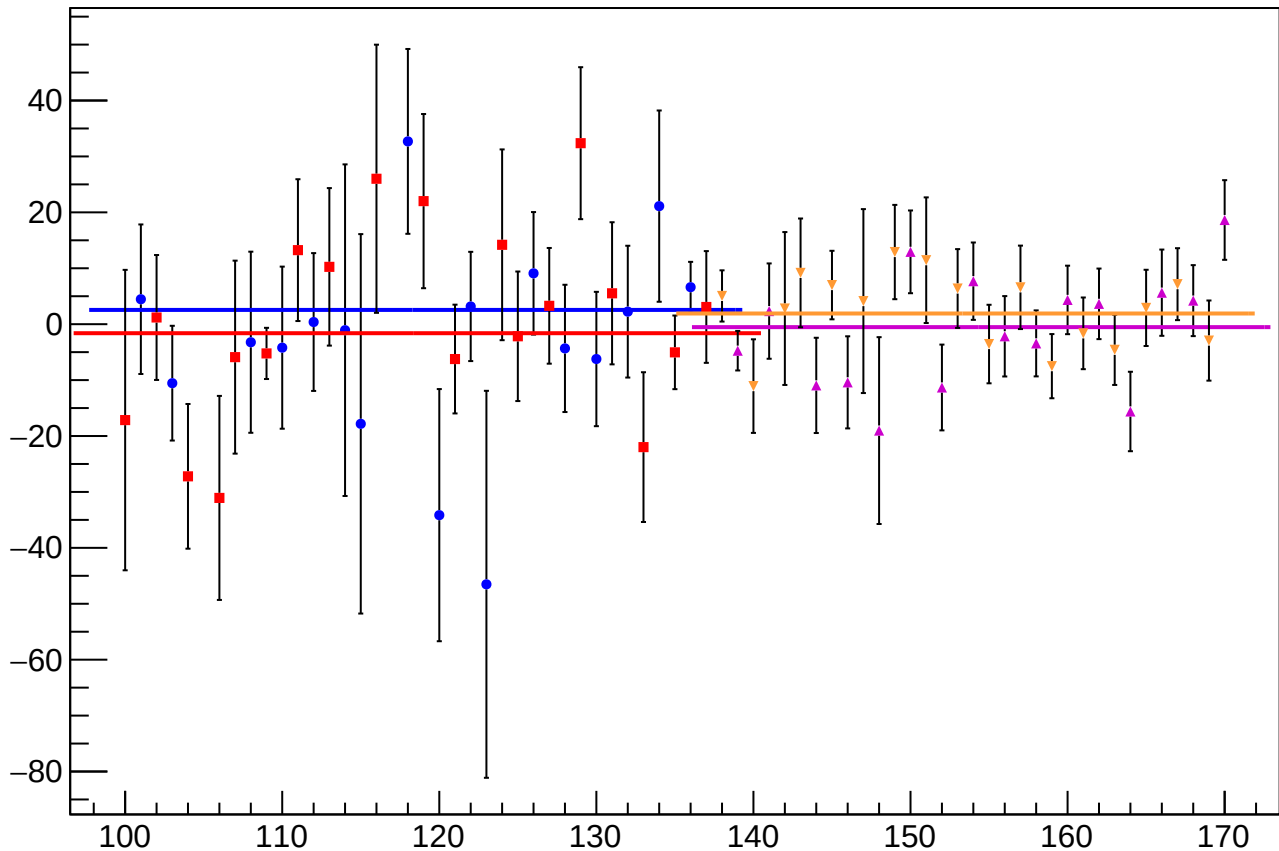
Right: 13729.884 $\pm$ 2.730 χ^2 /NDF: 1999799.5/35

In: 9594.322 $\pm$ 1.605 χ^2 /NDF:2389113.2/32

Out: 9702.608 $\pm$ 1.600 χ^2 /NDF:2714117.8/35

All: 9648.645 $\pm$ 1.133 χ^2 /NDF: 5105513.2/68

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.551 ± 2.757 $\chi^2/\text{NDF}: 13.6/16$

Left Out: 1.911 ± 1.731 $\chi^2/\text{NDF}: 13.2/16$

Right Out: -1.613 ± 2.442 $\chi^2/\text{NDF}: 24.0/18$

Left In: -0.528 ± 1.660 $\chi^2/\text{NDF}: 26.7/15$

Left: 0.640 ± 1.198 $\chi^2/\text{NDF}: 40.9/32$

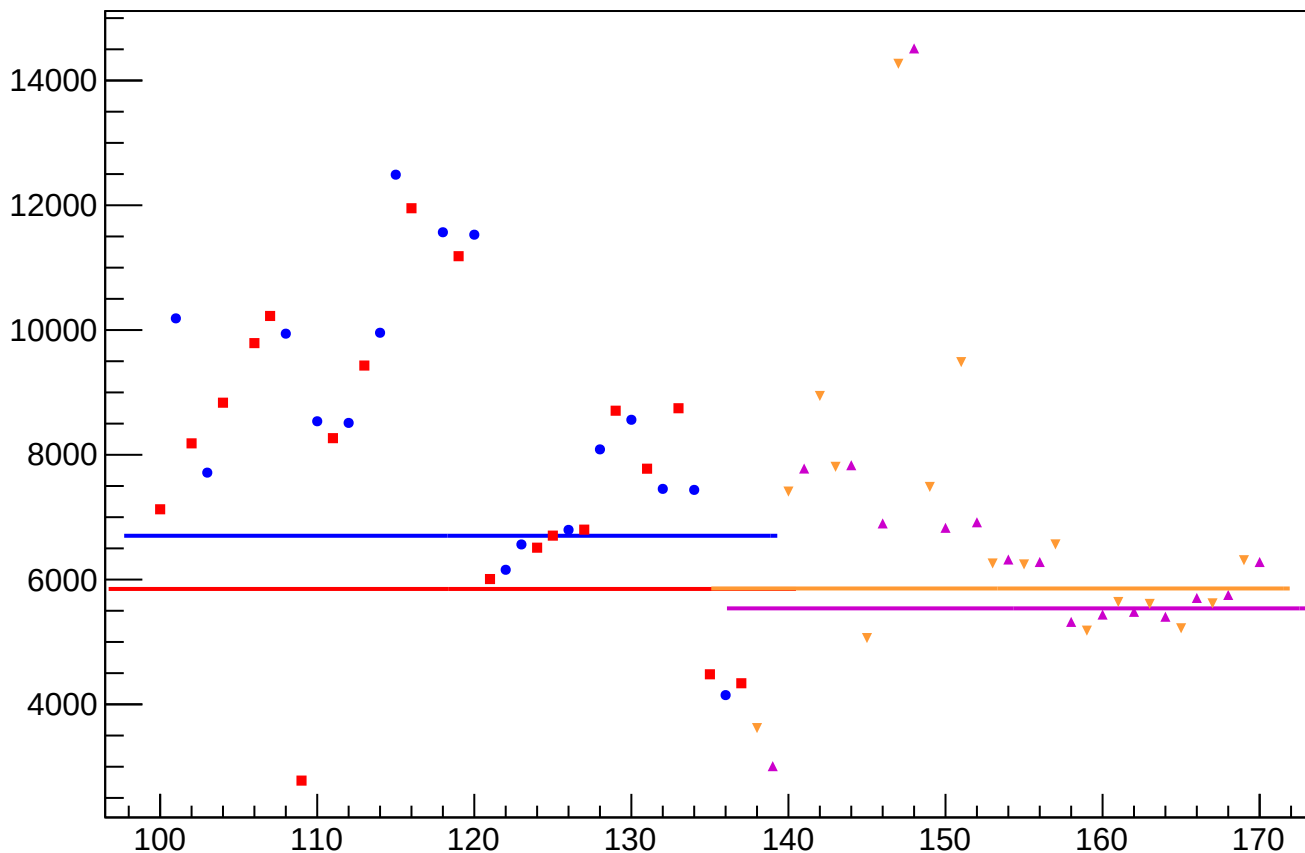
Right: 0.218 ± 1.828 $\chi^2/\text{NDF}: 38.9/35$

In: 0.291 ± 1.422 $\chi^2/\text{NDF}: 41.2/32$

Out: 0.733 ± 1.412 $\chi^2/\text{NDF}: 38.6/35$

All: 0.513 ± 1.002 $\chi^2/\text{NDF}: 79.9/68$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6702.245+/-1.949 χ^2/NDF : 1389956.8/16

Left Out: 5857.261+/-1.224 χ^2/NDF : 1660317.0/16

Right Out: 5849.606+/-1.727 χ^2/NDF : 2278464.5/18

Left In: 5538.358+/-1.173 χ^2/NDF : 2141596.5/15

Left: 5691.098+/-0.847 χ^2/NDF : 3837285.1/32

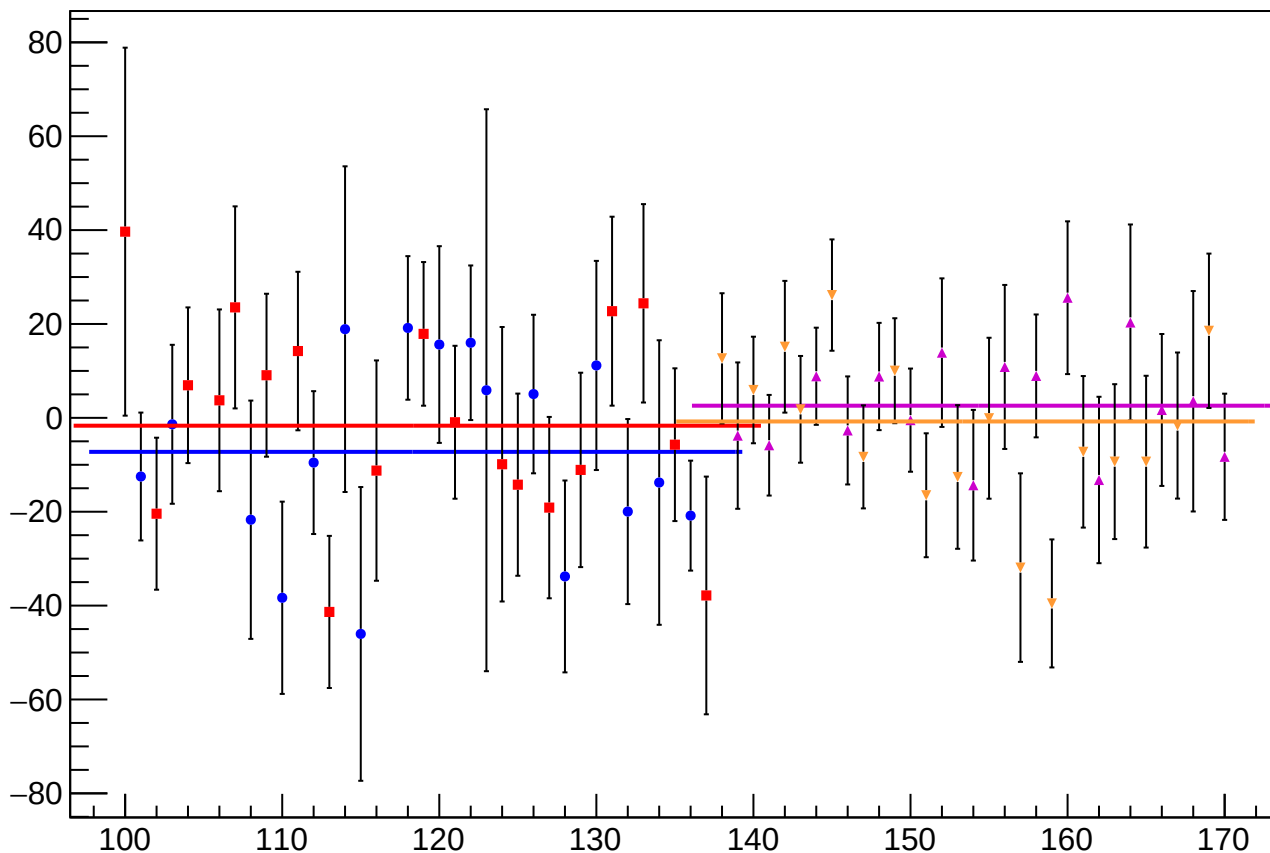
Right: 6224.538+/-1.293 χ^2/NDF : 3775609.7/35

In: 5847.948+/-1.005 χ^2/NDF : 3793215.4/32

Out: 5854.702+/-0.999 χ^2/NDF : 3938794.6/35

All: 5851.348+/-0.708 χ^2/NDF : 7732032.7/68

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -7.245 ± 4.547 χ^2/NDF : 15.9/16

Left Out: -0.768 ± 3.356 χ^2/NDF : 23.7/16

Right Out: -1.671 ± 4.373 χ^2/NDF : 19.9/18

Left In: 2.590 ± 3.470 χ^2/NDF : 8.0/15

Left: 0.855 ± 2.413 χ^2/NDF : 32.2/32

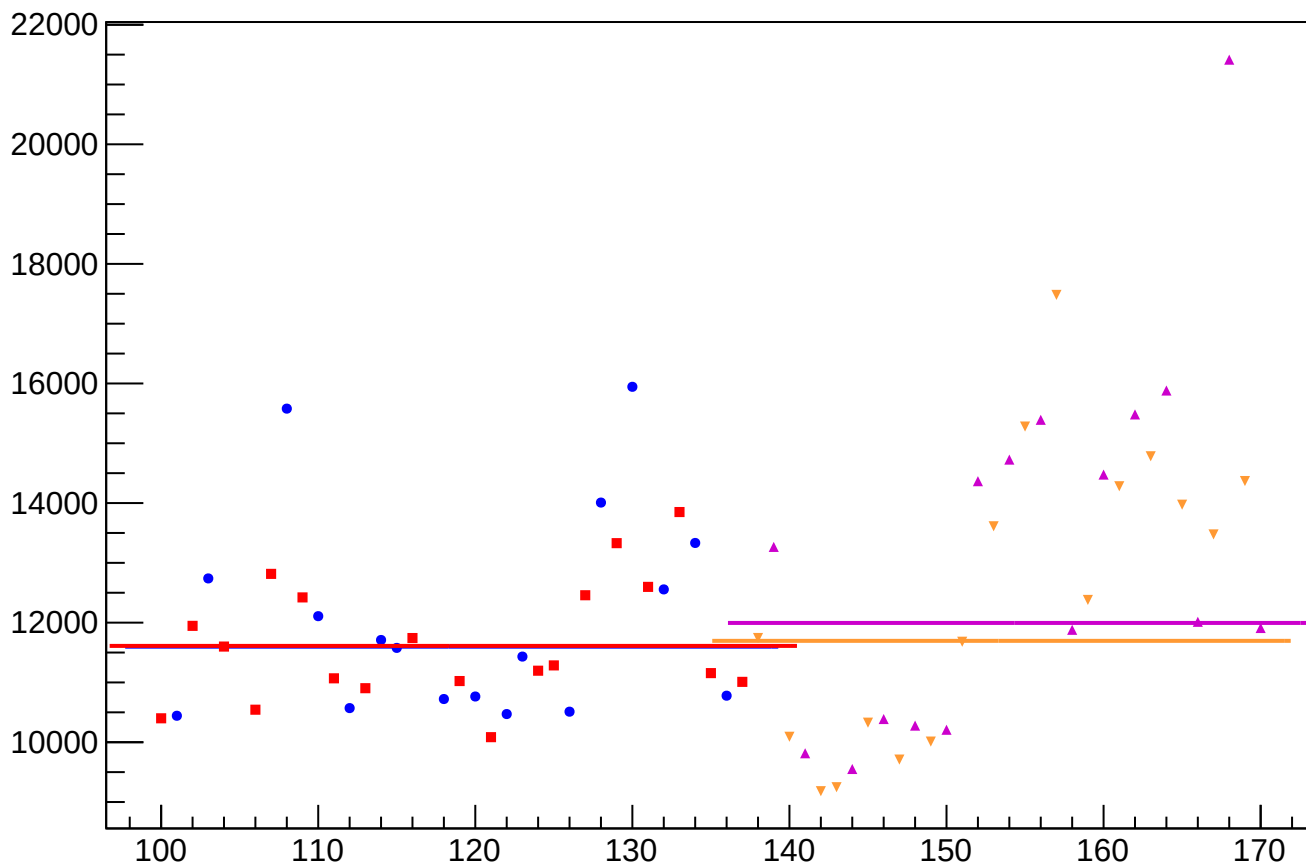
Right: -4.349 ± 3.152 χ^2/NDF : 36.6/35

In: -1.031 ± 2.759 χ^2/NDF : 26.9/32

Out: -1.103 ± 2.663 χ^2/NDF : 43.6/35

All: -1.068 ± 1.916 χ^2/NDF : 70.5/68

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11598.751+/-3.215 χ^2/NDF : 235423.8/16

Left Out: 11695.629+/-2.373 χ^2/NDF : 855348.5/16

Right Out: 11610.941+/-3.092 χ^2/NDF : 94447.0/18

Left In: 11995.086+/-2.454 χ^2/NDF : 1038058.2/15

Left: 11840.356+/-1.706 χ^2/NDF : 1901101.4/32

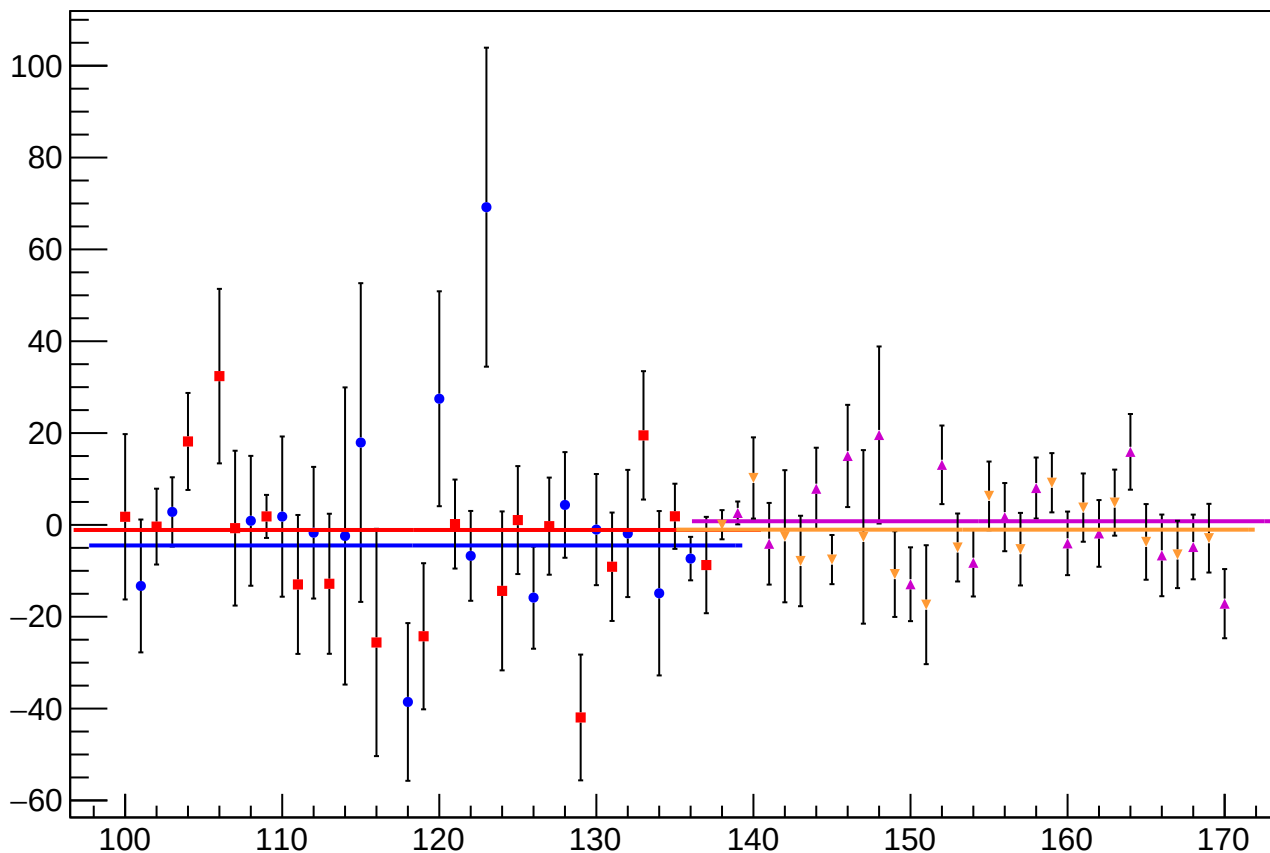
Right: 11605.084+/-2.229 χ^2/NDF : 329878.2/35

In: 11849.196+/-1.951 χ^2/NDF : 1283084.1/32

Out: 11664.236+/-1.883 χ^2/NDF : 950267.5/35

All: 11753.436+/-1.355 χ^2/NDF : 2238006.4/6

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -4.476 $\pm$ 2.782 χ^2/NDF : 14.8/16

Left Out: -1.038 $\pm$ 1.698 χ^2/NDF : 12.2/16

Right Out: -1.105 $\pm$ 2.429 χ^2/NDF : 24.0/18

Left In: 0.798 $\pm$ 1.600 χ^2/NDF : 22.7/15

Left: -0.066 $\pm$ 1.165 χ^2/NDF : 35.5/32

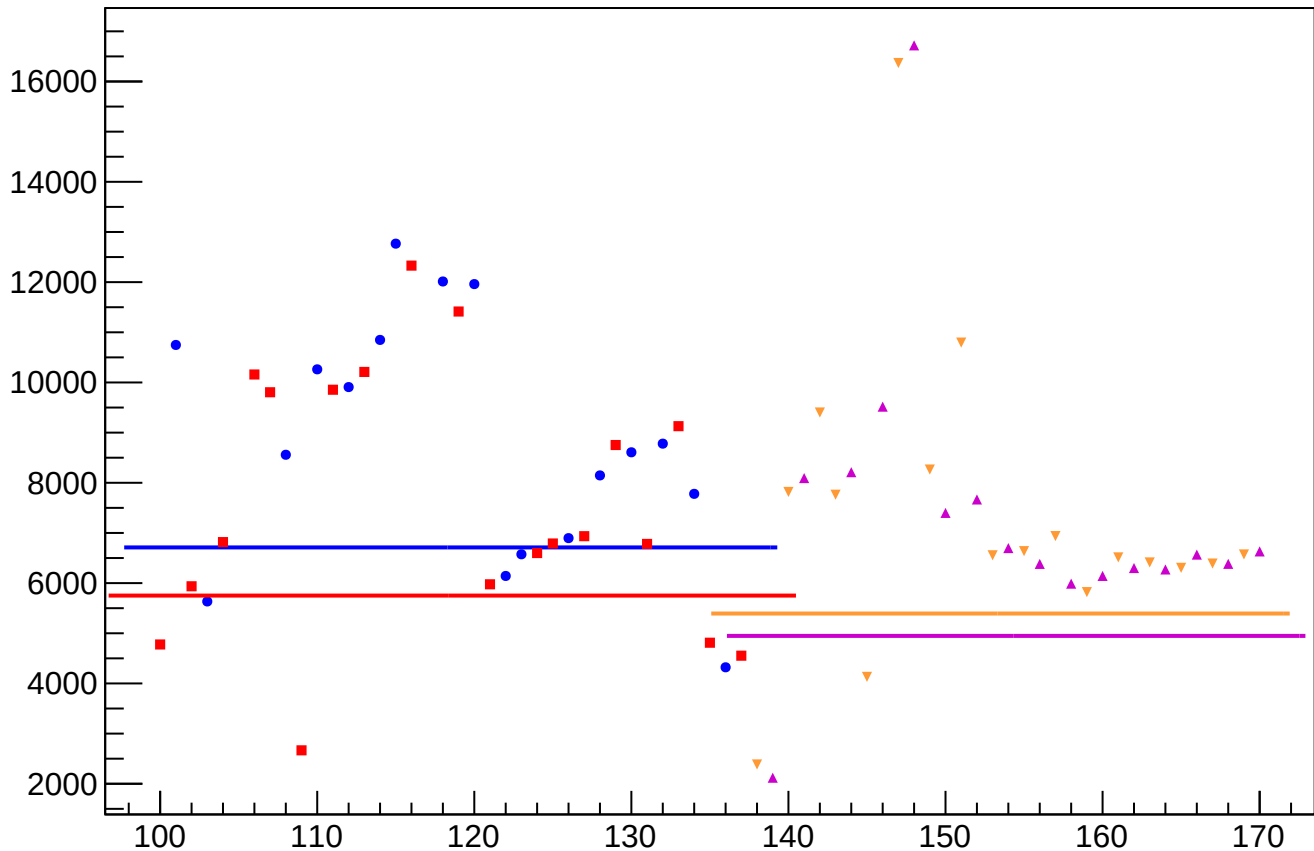
Right: -2.563 $\pm$ 1.830 χ^2/NDF : 39.7/35

In: -0.513 $\pm$ 1.387 χ^2/NDF : 40.3/32

Out: -1.060 $\pm$ 1.392 χ^2/NDF : 36.3/35

All: -0.786 $\pm$ 0.982 χ^2/NDF : 76.6/68

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6711.550 ± 1.967 $\chi^2/\text{NDF}: 1446972.0/16$

Left Out: 5393.640 ± 1.201 $\chi^2/\text{NDF}: 3923291.6/16$

Right Out: 5751.505 ± 1.718 $\chi^2/\text{NDF}: 2165110.0/18$

Left In: 4947.708 ± 1.132 $\chi^2/\text{NDF}: 5232148.3/15$

Left: 5157.500 ± 0.823 $\chi^2/\text{NDF}: 9228504.0/32$

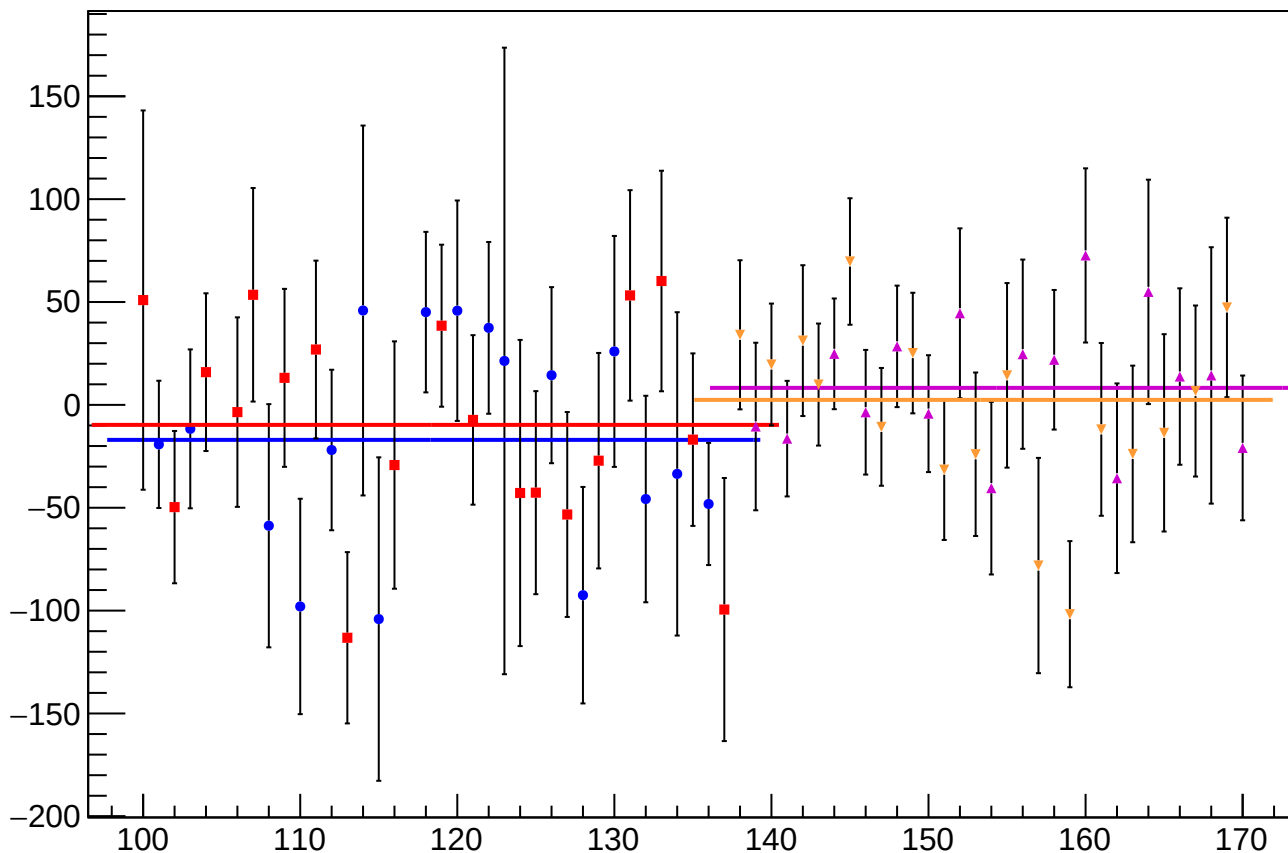
Right: 6166.836 ± 1.294 $\chi^2/\text{NDF}: 3747249.5/35$

In: 5386.302 ± 0.981 $\chi^2/\text{NDF}: 7283303.5/32$

Out: 5511.096 ± 0.984 $\chi^2/\text{NDF}: 6117566.3/35$

All: 5448.499 ± 0.695 $\chi^2/\text{NDF}: 13408938.1/6$

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -17.010 ± 11.287 χ^2/NDF : 15.0/16

Left Out: 2.443 ± 8.764 χ^2/NDF : 21.5/16

Right Out: -9.719 ± 10.891 χ^2/NDF : 19.1/18

Left In: 8.274 ± 9.055 χ^2/NDF : 9.3/15

Left: 5.264 ± 6.298 χ^2/NDF : 31.0/32

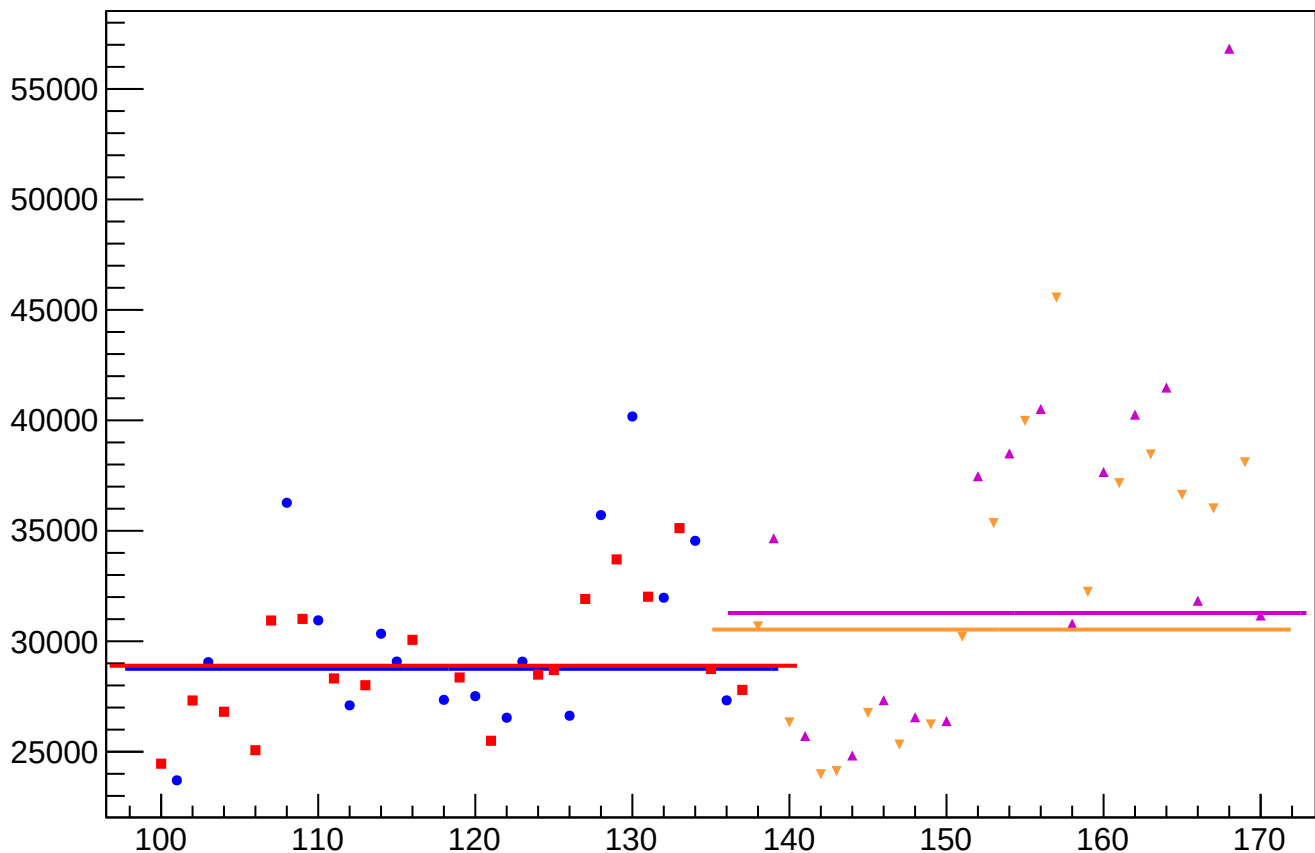
Right: -13.234 ± 7.837 χ^2/NDF : 34.3/35

In: -1.626 ± 7.063 χ^2/NDF : 27.3/32

Out: -2.338 ± 6.828 χ^2/NDF : 41.3/35

All: -1.994 ± 4.909 χ^2/NDF : 68.6/68

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28753.787 ± 7.981 χ^2/NDF : 249215.1/16

Left Out: 30529.211 ± 6.197 χ^2/NDF : 869835.2/16

Right Out: 28892.154 ± 7.701 χ^2/NDF : 111241.2/18

Left In: 31280.065 ± 6.403 χ^2/NDF : 1064643.7/15

Left: 30892.411 ± 4.453 χ^2/NDF : 1941579.2/32

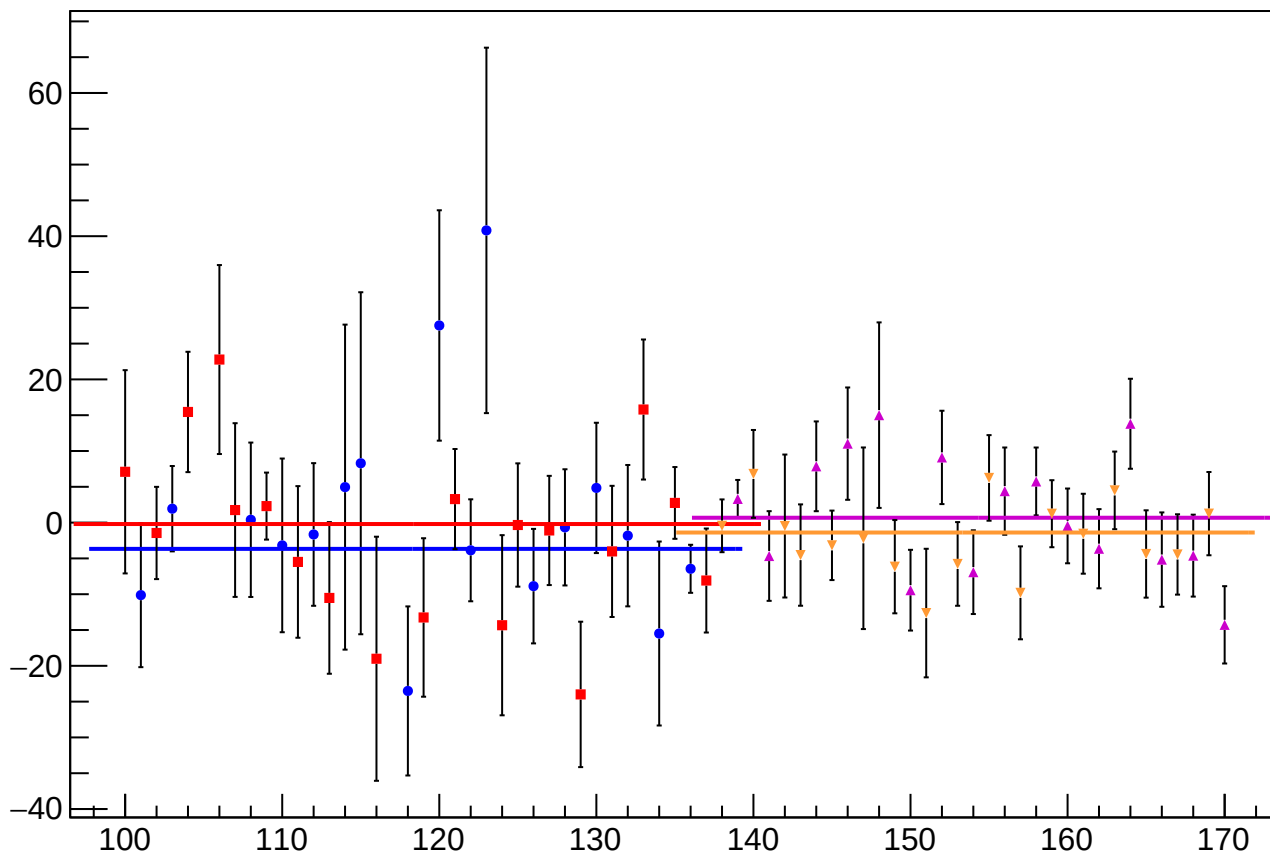
Right: 28825.443 ± 5.542 χ^2/NDF : 360612.0/35

In: 30290.867 ± 4.994 χ^2/NDF : 1374818.6/32

Out: 29885.723 ± 4.828 χ^2/NDF : 1008503.5/35

All: 30081.446 ± 3.471 χ^2/NDF : 2386723.8/6

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -3.668 ± 2.010 $\chi^2/\text{NDF}: 14.5/16$

Left Out: -1.386 ± 1.420 $\chi^2/\text{NDF}: 10.4/16$

Right Out: -0.199 ± 1.893 $\chi^2/\text{NDF}: 22.3/18$

Left In: 0.679 ± 1.343 $\chi^2/\text{NDF}: 28.4/15$

Left: -0.296 ± 0.976 $\chi^2/\text{NDF}: 40.0/32$

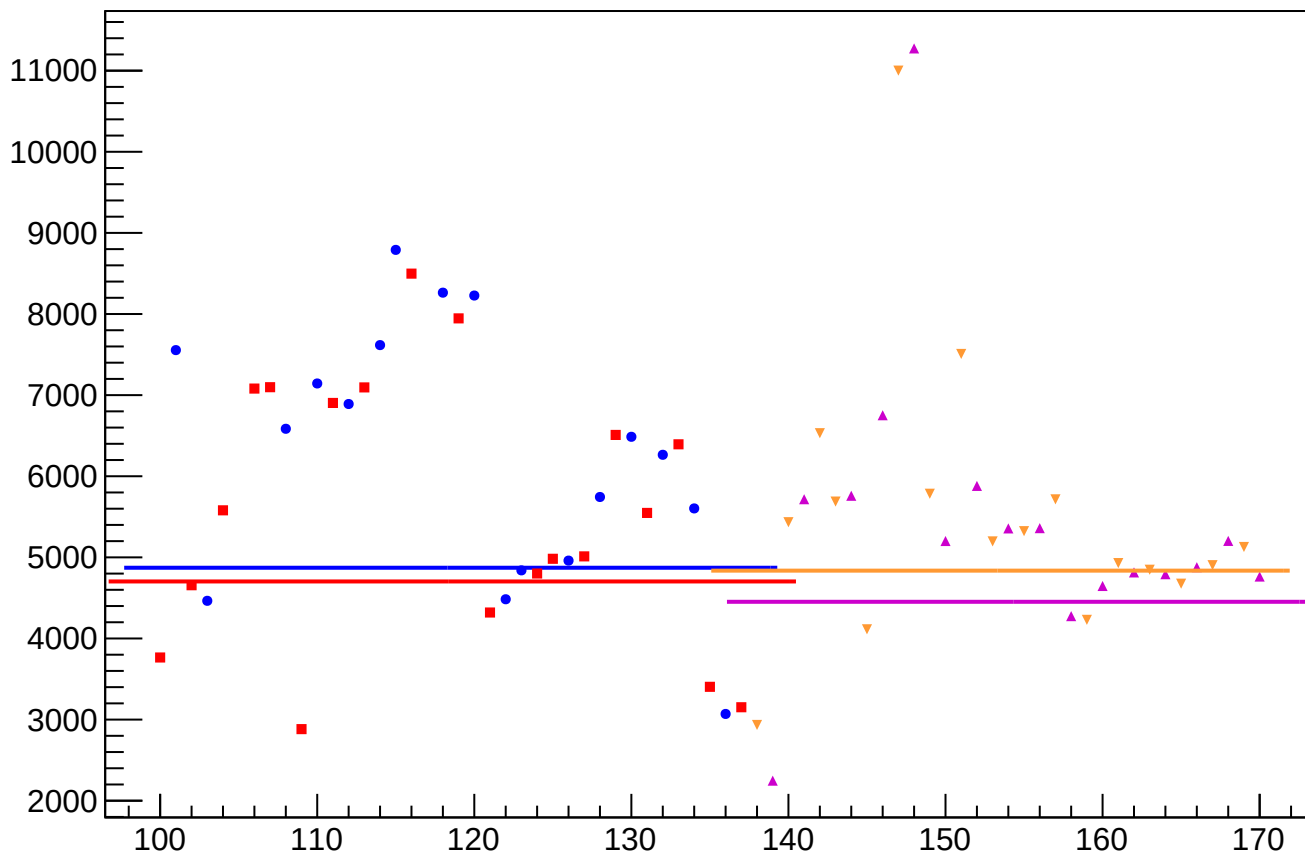
Right: -1.830 ± 1.378 $\chi^2/\text{NDF}: 38.4/35$

In: -0.663 ± 1.117 $\chi^2/\text{NDF}: 46.2/32$

Out: -0.958 ± 1.136 $\chi^2/\text{NDF}: 33.0/35$

All: -0.808 ± 0.796 $\chi^2/\text{NDF}: 79.2/68$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4872.105 ± 1.421 $\chi^2/\text{NDF}: 1405253.2/16$

Left Out: 4836.344 ± 1.004 $\chi^2/\text{NDF}: 1473611.4/16$

Right Out: 4702.994 ± 1.338 $\chi^2/\text{NDF}: 1312720.8/18$

Left In: 4452.214 ± 0.950 $\chi^2/\text{NDF}: 2576956.9/15$

Left: 4633.608 ± 0.690 $\chi^2/\text{NDF}: 4127816.7/32$

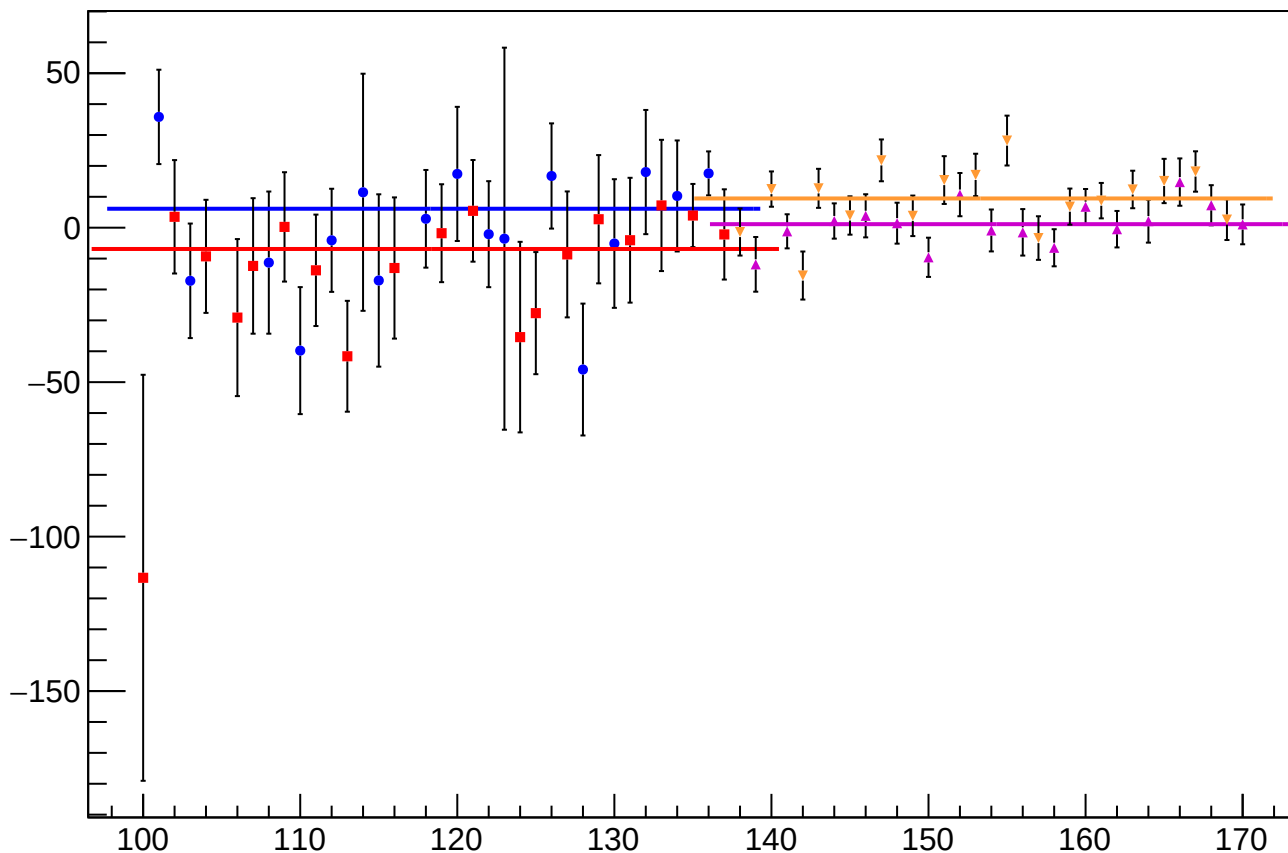
Right: 4782.480 ± 0.974 $\chi^2/\text{NDF}: 2725478.8/35$

In: 4581.851 ± 0.790 $\chi^2/\text{NDF}: 4042556.8/32$

Out: 4788.319 ± 0.803 $\chi^2/\text{NDF}: 2792684.6/35$

All: 4683.332 ± 0.563 $\chi^2/\text{NDF}: 6868844.9/68$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.133 $\pm$ 4.080 χ^2 /NDF: 22.2/16

Left Out: 9.460 $\pm$ 1.609 χ^2 /NDF:32.2/16

Right Out: -6.892 $\pm$ 4.224 χ^2 /NDF: 12.5/18

Left In: 1.139 $\pm$ 1.630 χ^2 /NDF:14.2/15

Left: 5.354 $\pm$ 1.145 χ^2 /NDF: 59.6/32

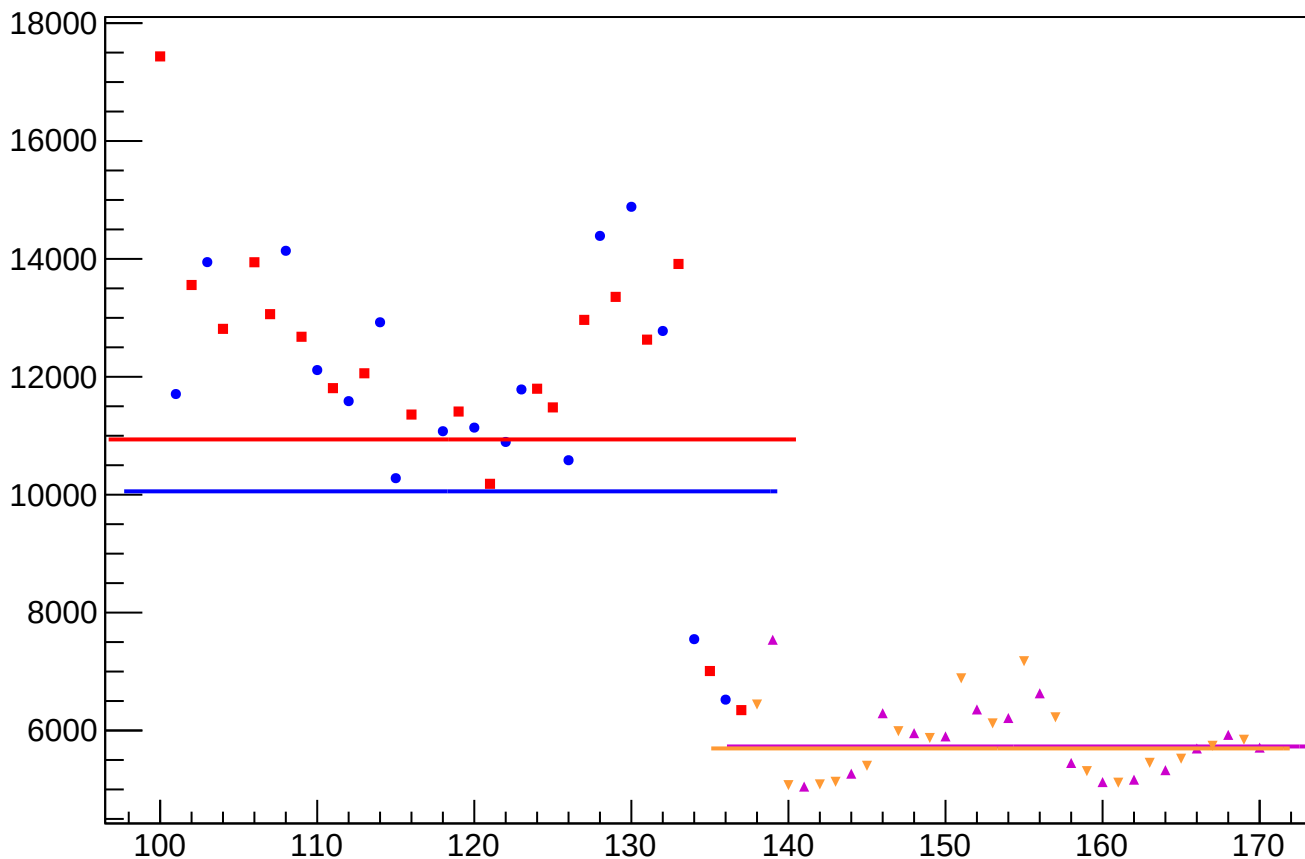
Right: -0.153 $\pm$ 2.935 χ^2 /NDF: 39.6/35

In: 1.826 $\pm$ 1.514 χ^2 /NDF:37.7/32

Out: 7.389 $\pm$ 1.503 χ^2 /NDF:57.7/35

All: 4.626 $\pm$ 1.067 χ^2 /NDF: 102.2/68

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 10056.991 $\pm$ 2.885 χ^2 /NDF: 1002872.6/16

Left Out: 5695.663 $\pm$ 1.137 χ^2 /NDF:248976.8/16

Right Out: 10937.573 $\pm$ 2.987 χ^2 /NDF: 762909.5/18

Left In: 5729.019 $\pm$ 1.152 χ^2 /NDF:252176.4/15

Left: 5712.122 $\pm$ 0.810 χ^2 /NDF: 501577.6/32

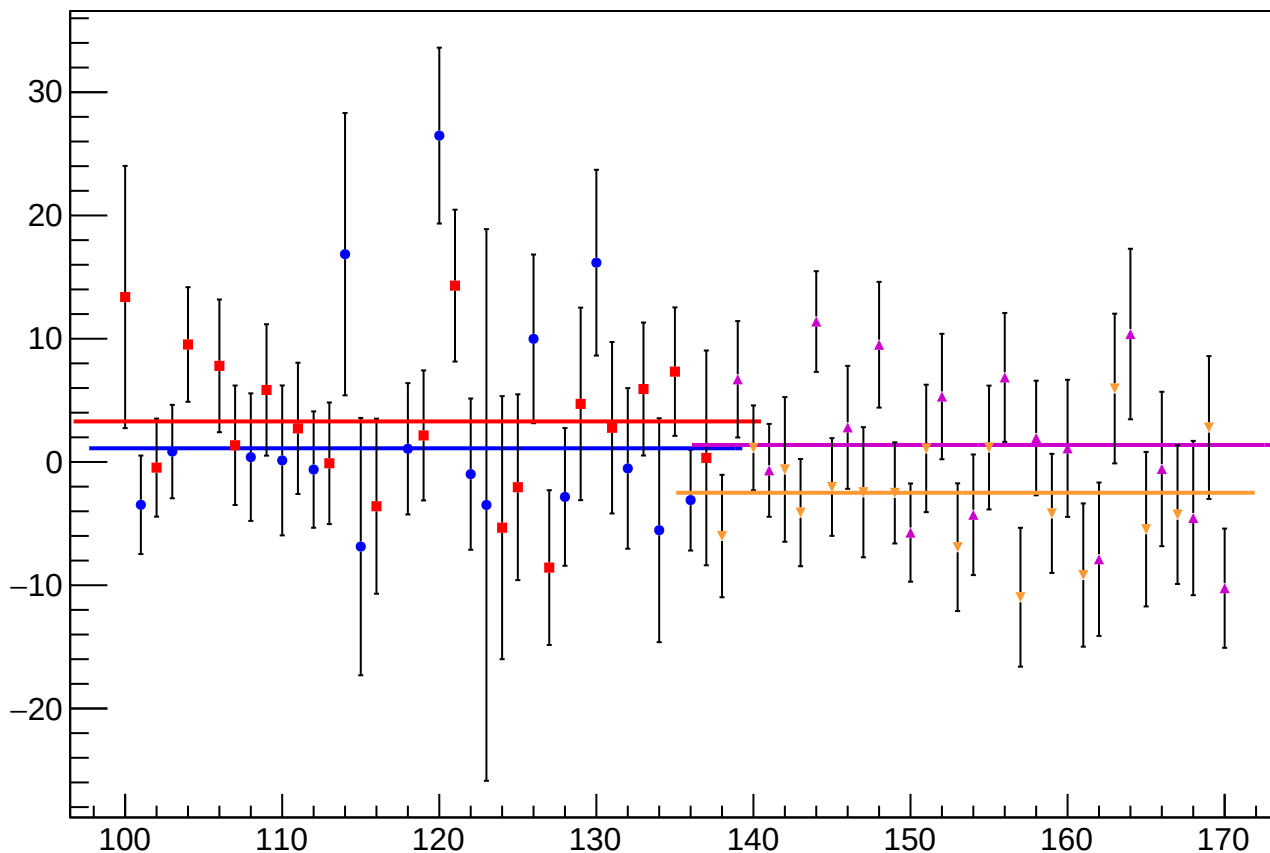
Right: 10481.996 $\pm$ 2.075 χ^2 /NDF: 1810742.6/35

In: 6324.590 $\pm$ 1.070 χ^2 /NDF:3195667.9/32

Out: 6359.504 $\pm$ 1.063 χ^2 /NDF:3701383.8/35

All: 6342.166 $\pm$ 0.754 χ^2 /NDF: 6897587.5/68

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 1.112 ± 1.403 $\chi^2/\text{NDF}: 24.6/16$

Left Out: -2.496 ± 1.197 $\chi^2/\text{NDF}: 10.4/16$

Right Out: 3.290 ± 1.334 $\chi^2/\text{NDF}: 15.1/18$

Left In: 1.380 ± 1.237 $\chi^2/\text{NDF}: 27.1/15$

Left: -0.623 ± 0.860 $\chi^2/\text{NDF}: 42.6/32$

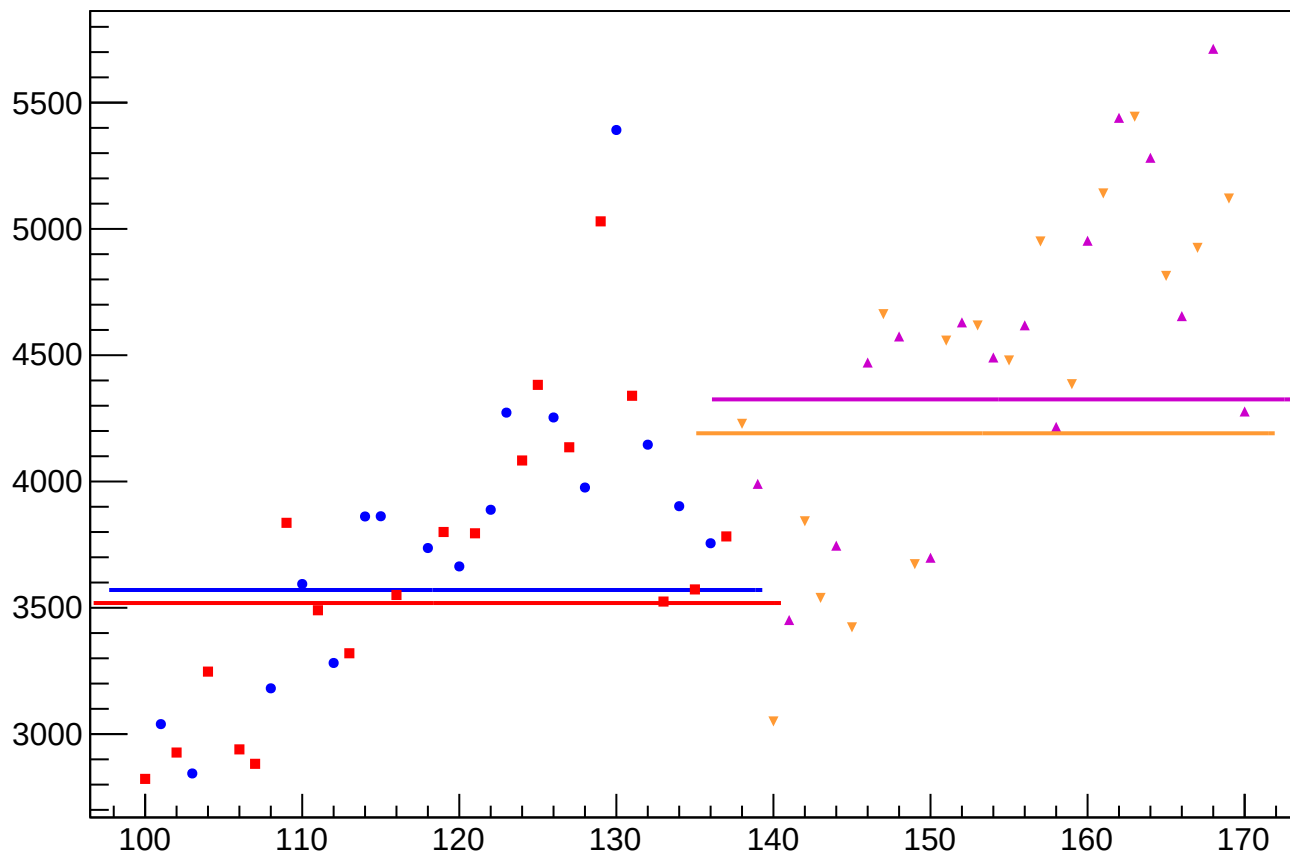
Right: 2.256 ± 0.967 $\chi^2/\text{NDF}: 40.9/35$

In: 1.263 ± 0.928 $\chi^2/\text{NDF}: 51.8/32$

Out: 0.086 ± 0.891 $\chi^2/\text{NDF}: 35.9/35$

All: 0.650 ± 0.643 $\chi^2/\text{NDF}: 88.5/68$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3570.481 $\pm$ 0.992 χ^2 /NDF: 309699.2/16

Left Out: 4190.917 $\pm$ 0.846 χ^2 /NDF: 708483.2/16

Right Out: 3518.886 $\pm$ 0.943 χ^2 /NDF: 293392.5/18

Left In: 4325.057 $\pm$ 0.875 χ^2 /NDF: 462691.2/15

Left: 4255.755 $\pm$ 0.608 χ^2 /NDF: 1183315.0/32

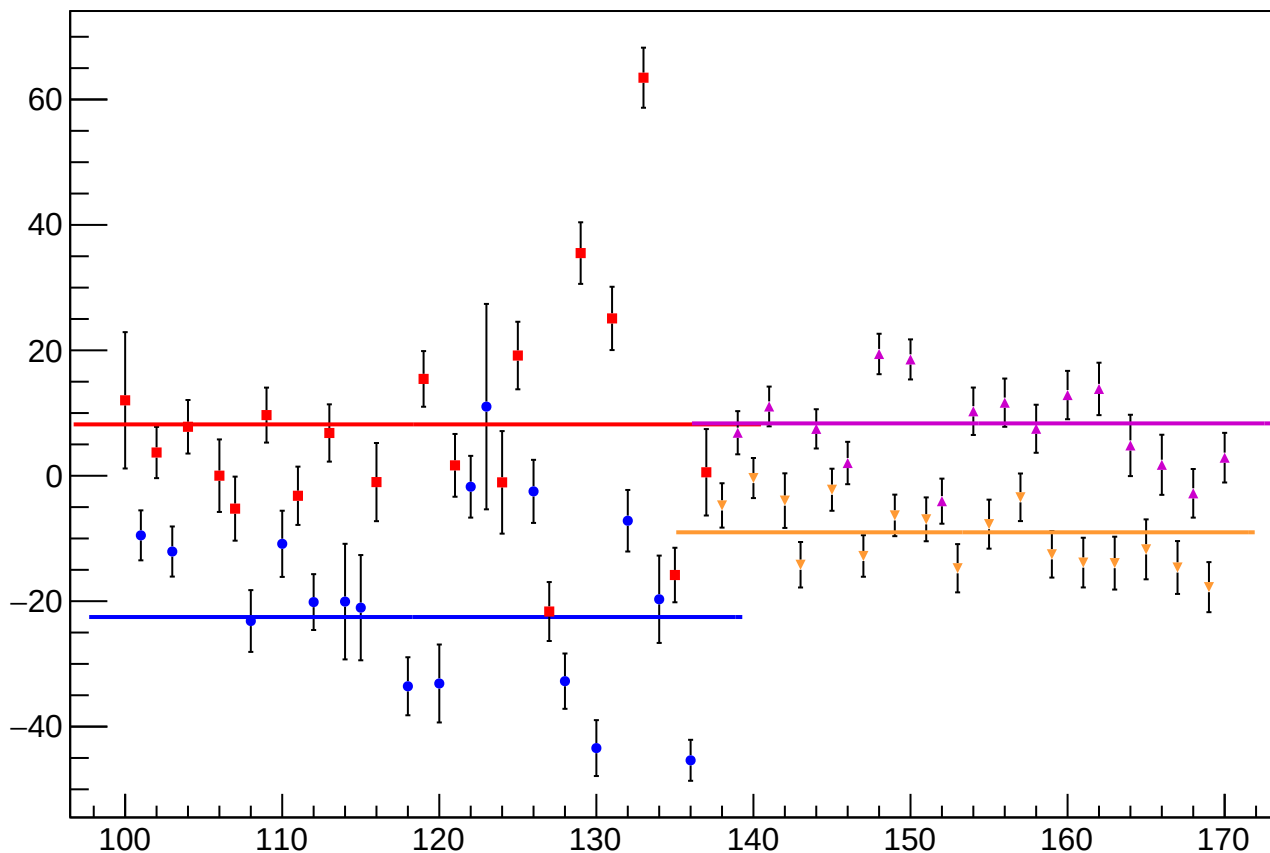
Right: 3543.379 $\pm$ 0.683 χ^2 /NDF: 604512.8/35

In: 3994.836 $\pm$ 0.656 χ^2 /NDF: 1097817.1/32

Out: 3891.079 $\pm$ 0.630 χ^2 /NDF: 1283151.4/35

All: 3940.835 $\pm$ 0.454 χ^2 /NDF: 2393980.4/68

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.526 ± 1.201 $\chi^2/\text{NDF}: 155.5/16$

Left Out: -9.016 ± 0.906 $\chi^2/\text{NDF}: 33.7/16$

Right Out: 8.192 ± 1.157 $\chi^2/\text{NDF}: 275.8/18$

Left In: 8.350 ± 0.916 $\chi^2/\text{NDF}: 55.1/15$

Left: -0.428 ± 0.644 $\chi^2/\text{NDF}: 270.4/32$

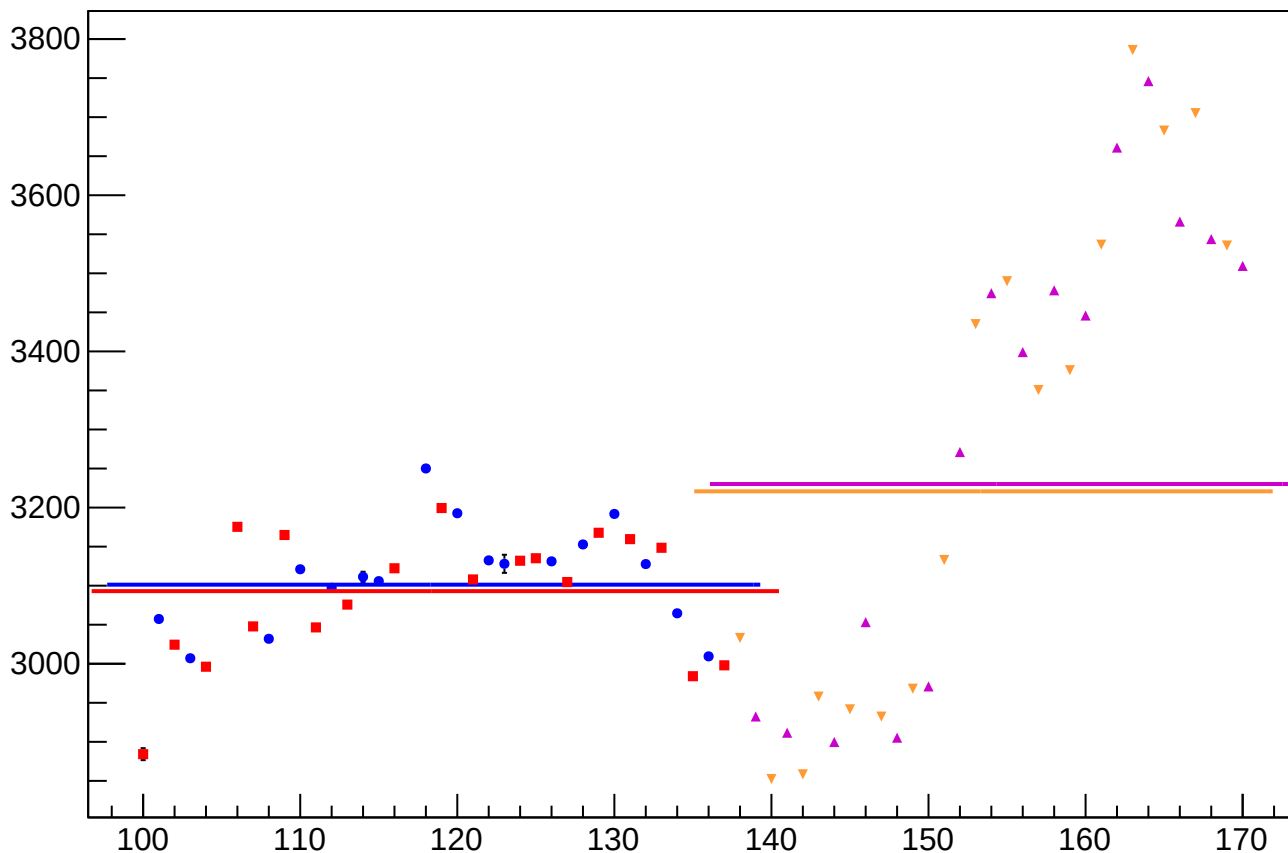
Right: -6.598 ± 0.833 $\chi^2/\text{NDF}: 770.8/35$

In: -3.015 ± 0.728 $\chi^2/\text{NDF}: 628.6/32$

Out: -2.472 ± 0.713 $\chi^2/\text{NDF}: 446.7/35$

All: -2.738 ± 0.510 $\chi^2/\text{NDF}: 1075.5/68$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3101.270+/-0.849 χ^2/NDF : 7233.8/16

Left Out: 3220.818+/-0.641 χ^2/NDF : 226252.1/16

Right Out: 3092.993+/-0.818 χ^2/NDF : 7766.0/18

Left In: 3230.174+/-0.648 χ^2/NDF : 199917.2/15

Left: 3225.444+/-0.456 χ^2/NDF : 426274.7/32

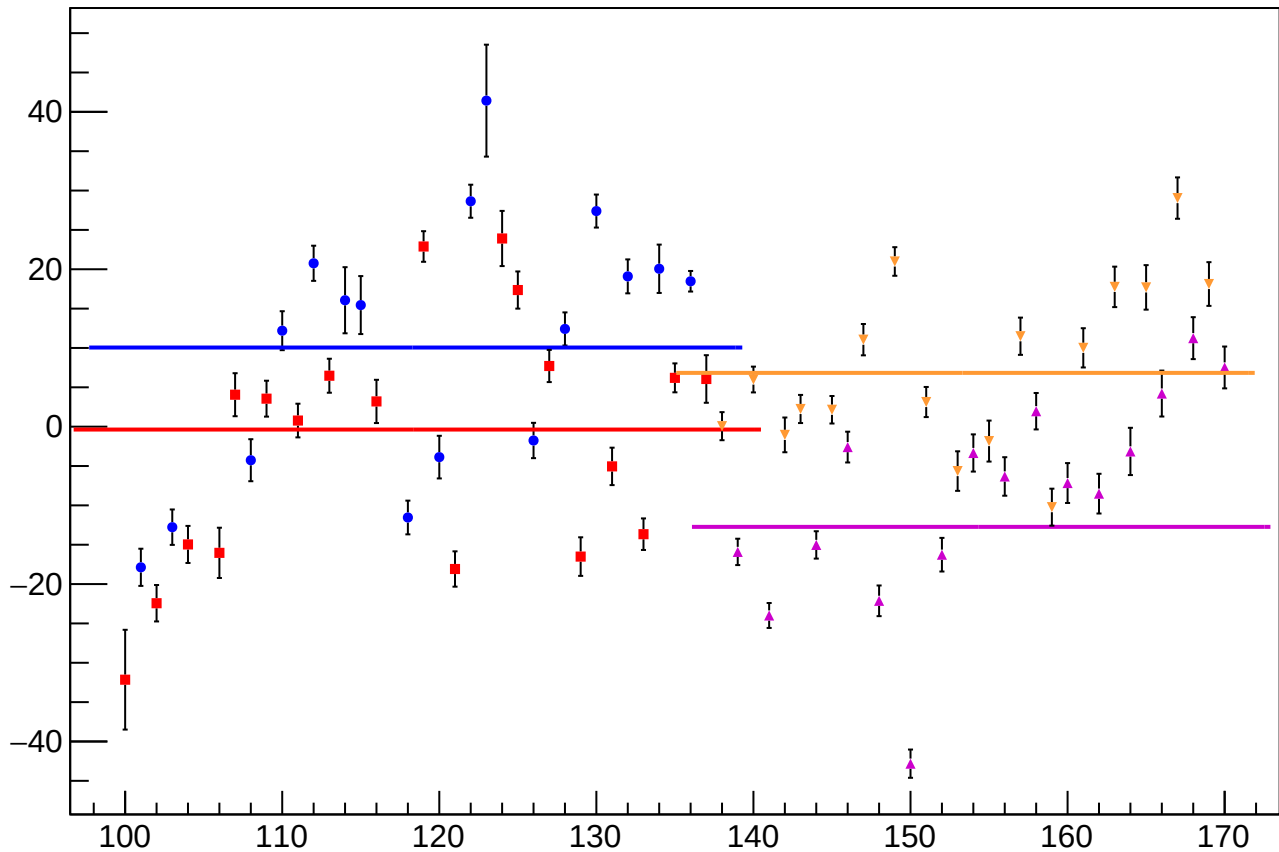
Right: 3096.979+/-0.589 χ^2/NDF : 15049.1/35

In: 3182.725+/-0.515 χ^2/NDF : 221721.1/32

Out: 3172.208+/-0.504 χ^2/NDF : 249148.9/35

All: 3177.358+/-0.360 χ^2/NDF : 471082.8/68

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 10.055 ± 0.562 $\chi^2/\text{NDF}: 692.2/16$

Left Out: 6.834 ± 0.517 $\chi^2/\text{NDF}: 324.9/16$

Right Out: -0.367 ± 0.547 $\chi^2/\text{NDF}: 629.8/18$

Left In: -12.731 ± 0.535 $\chi^2/\text{NDF}: 643.0/15$

Left: -2.621 ± 0.372 $\chi^2/\text{NDF}: 1659.4/32$

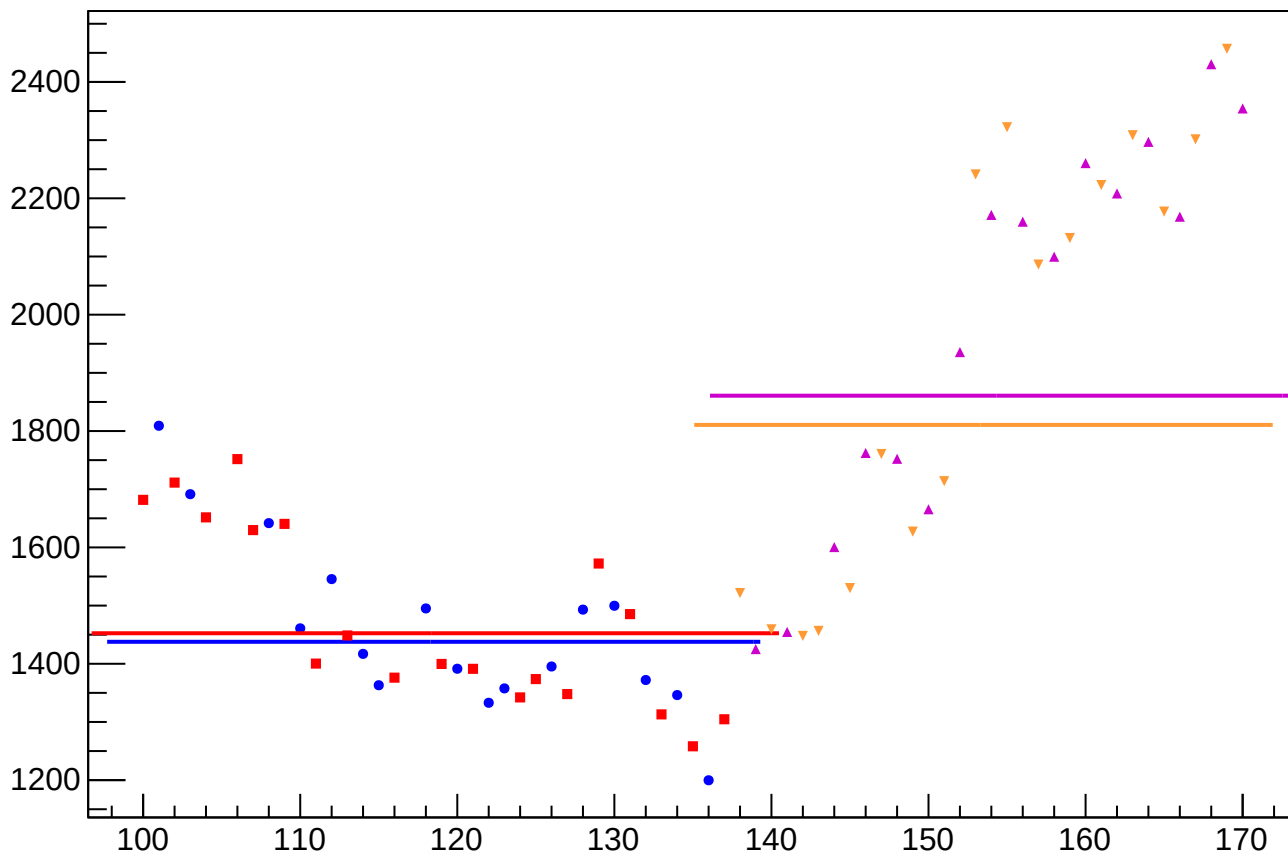
Right: 4.707 ± 0.392 $\chi^2/\text{NDF}: 1498.8/35$

In: -1.895 ± 0.387 $\chi^2/\text{NDF}: 2198.5/32$

Out: 3.435 ± 0.376 $\chi^2/\text{NDF}: 1046.2/35$

All: 0.850 ± 0.270 $\chi^2/\text{NDF}: 3342.2/68$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1437.776 $\pm$ 0.397 χ^2 /NDF: 173216.2/16

Left Out: 1810.543 $\pm$ 0.366 χ^2 /NDF: 897055.8/16

Right Out: 1452.469 $\pm$ 0.387 χ^2 /NDF: 138605.8/18

Left In: 1860.765 $\pm$ 0.378 χ^2 /NDF: 747087.2/15

Left: 1834.813 $\pm$ 0.263 χ^2 /NDF: 1653256.4/32

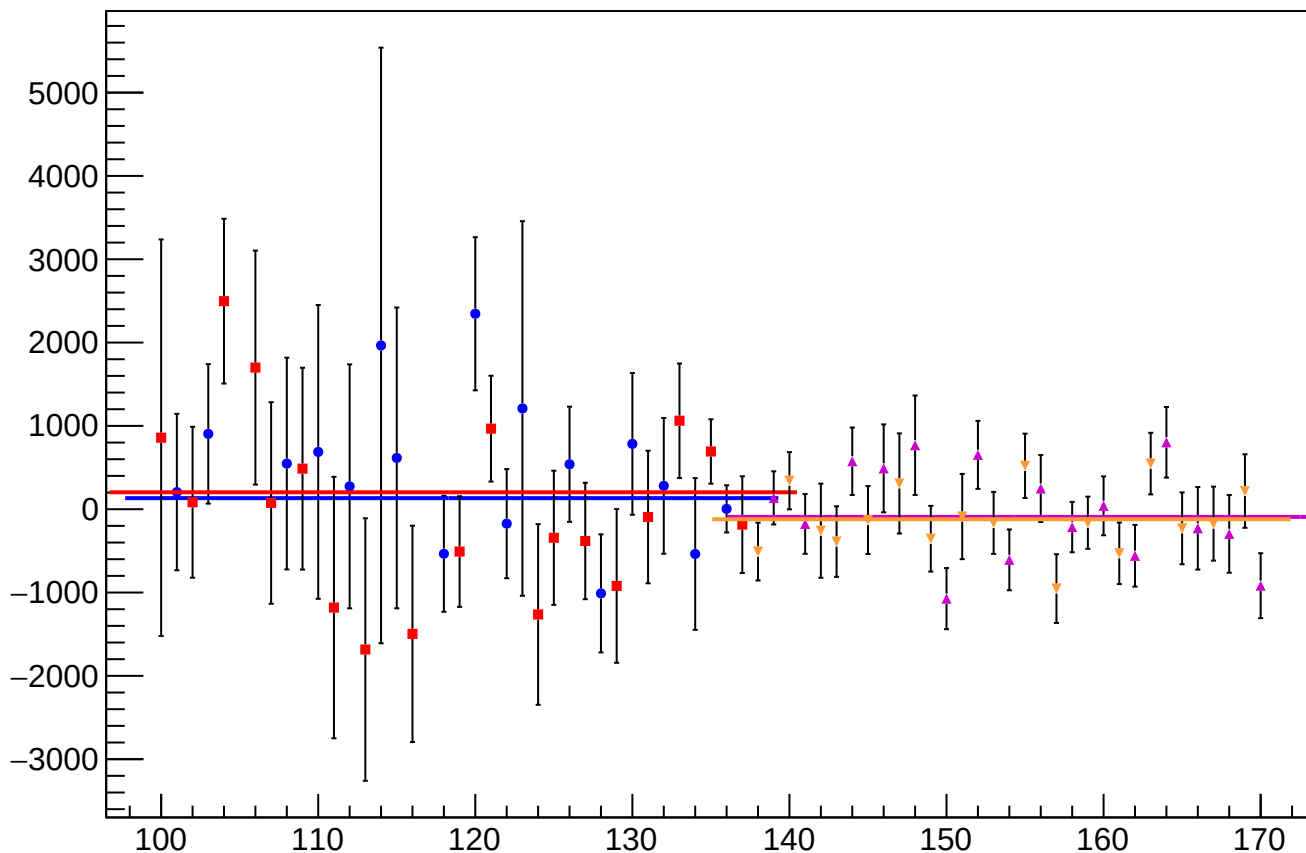
Right: 1445.316 $\pm$ 0.277 χ^2 /NDF: 312524.3/35

In: 1659.613 $\pm$ 0.274 χ^2 /NDF: 1515232.2/32

Out: 1641.533 $\pm$ 0.266 χ^2 /NDF: 1488135.2/35

All: 1650.300 $\pm$ 0.191 χ^2 /NDF: 3005612.2/68

asym_sam1_mean vs Slug, Sign Corrected



Right In: 132.921+/-180.271 χ^2/NDF : 12.9/16

Left Out: -120.732+/-97.680 χ^2/NDF :16.4/16

Right Out: 203.062+/-184.353 χ^2/NDF : 21.4/18

Left In: -92.558+/-97.885 χ^2/NDF :30.9/15

Left: -106.675+/-69.142 χ^2/NDF : 47.4/32

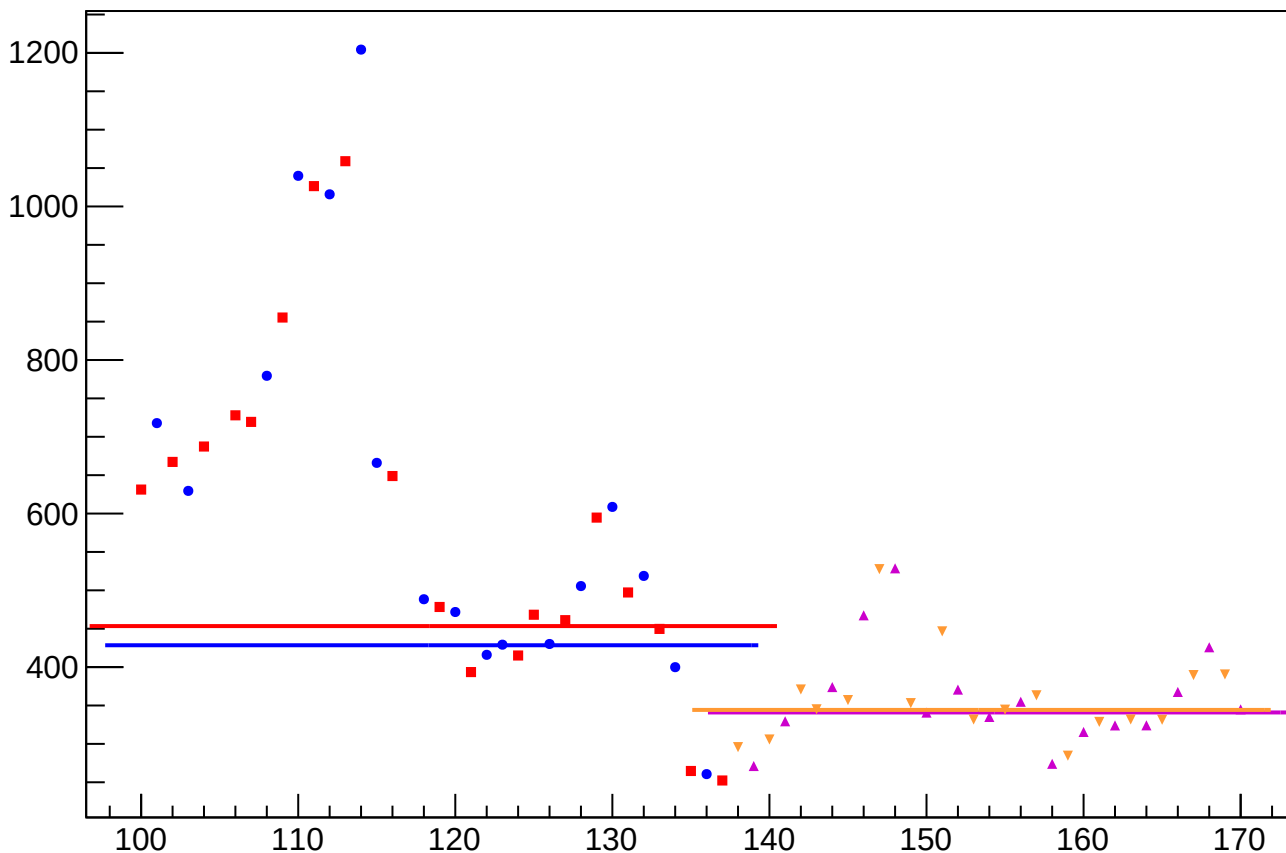
Right: 167.206+/-128.890 χ^2/NDF : 34.4/35

In: -41.216+/-86.022 χ^2/NDF :45.0/32

Out: -49.756+/-86.312 χ^2/NDF :40.3/35

All: -45.471+/-60.929 χ^2/NDF : 85.3/68

asym_sam1_rms vs Slug, Sign Corrected



Right In: 428.460+/-0.127 χ^2/NDF : 2011453.8/16

Left Out: 344.238+/-0.069 χ^2/NDF : 467250.0/16

Right Out: 453.435+/-0.130 χ^2/NDF : 2029813.8/18

Left In: 340.936+/-0.069 χ^2/NDF : 625801.6/15

Left: 342.591+/-0.049 χ^2/NDF : 1094191.8/32

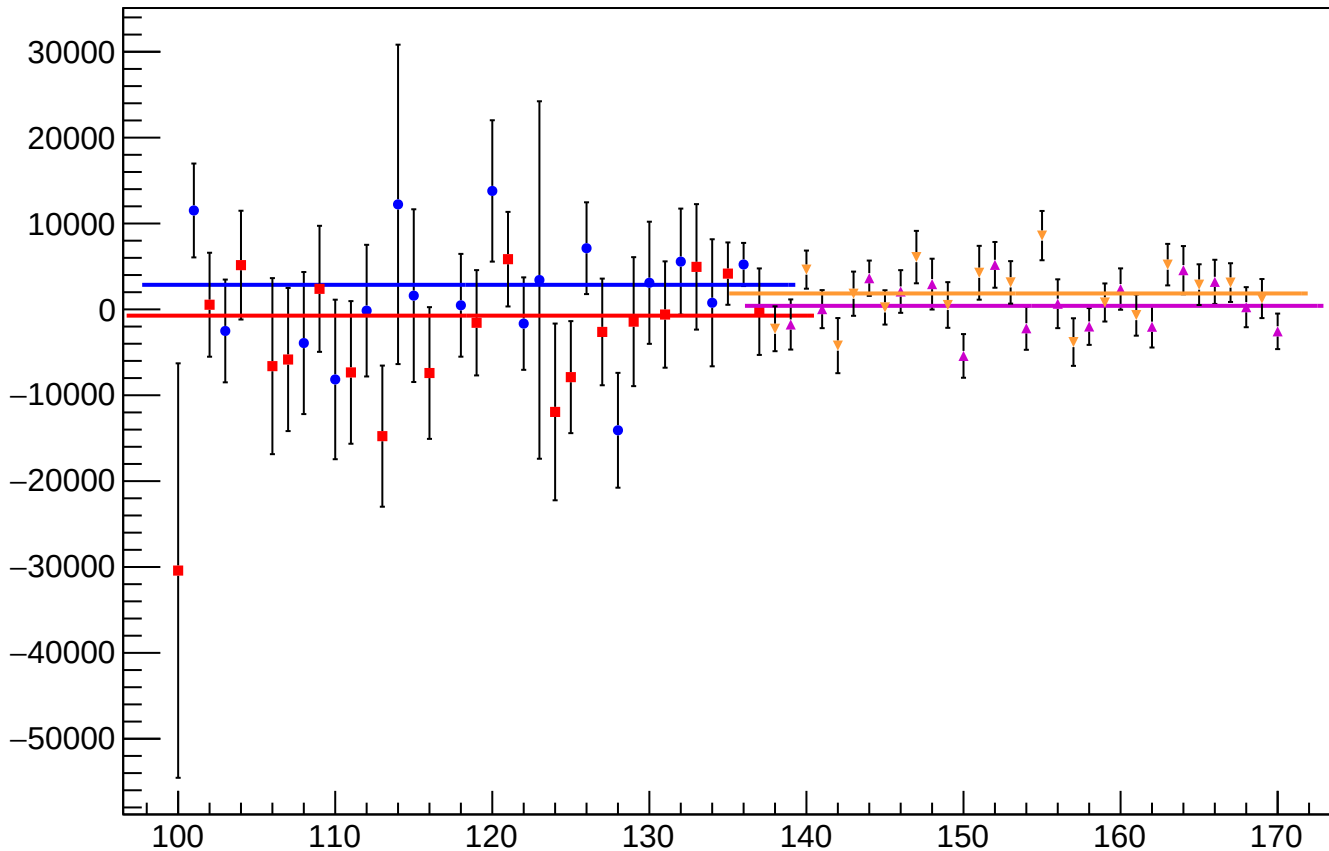
Right: 440.668+/-0.091 χ^2/NDF : 4060031.3/35

In: 360.866+/-0.061 χ^2/NDF : 3001353.8/32

Out: 368.174+/-0.061 χ^2/NDF : 3044949.1/35

All: 364.508+/-0.043 χ^2/NDF : 6053497.7/68

asym_sam2_mean vs Slug, Sign Corrected



Right In: 2859.622+/-1447.884 χ^2/NDF : 16.7/16

Left Out: 1853.750+/-605.313 χ^2/NDF : 24.8/16

Right Out: -729.571+/-1509.224 χ^2/NDF : 14.0/18

Left In: 412.234+/-612.098 χ^2/NDF : 22.1/15

Left: 1141.025+/-430.400 χ^2/NDF : 49.8/32

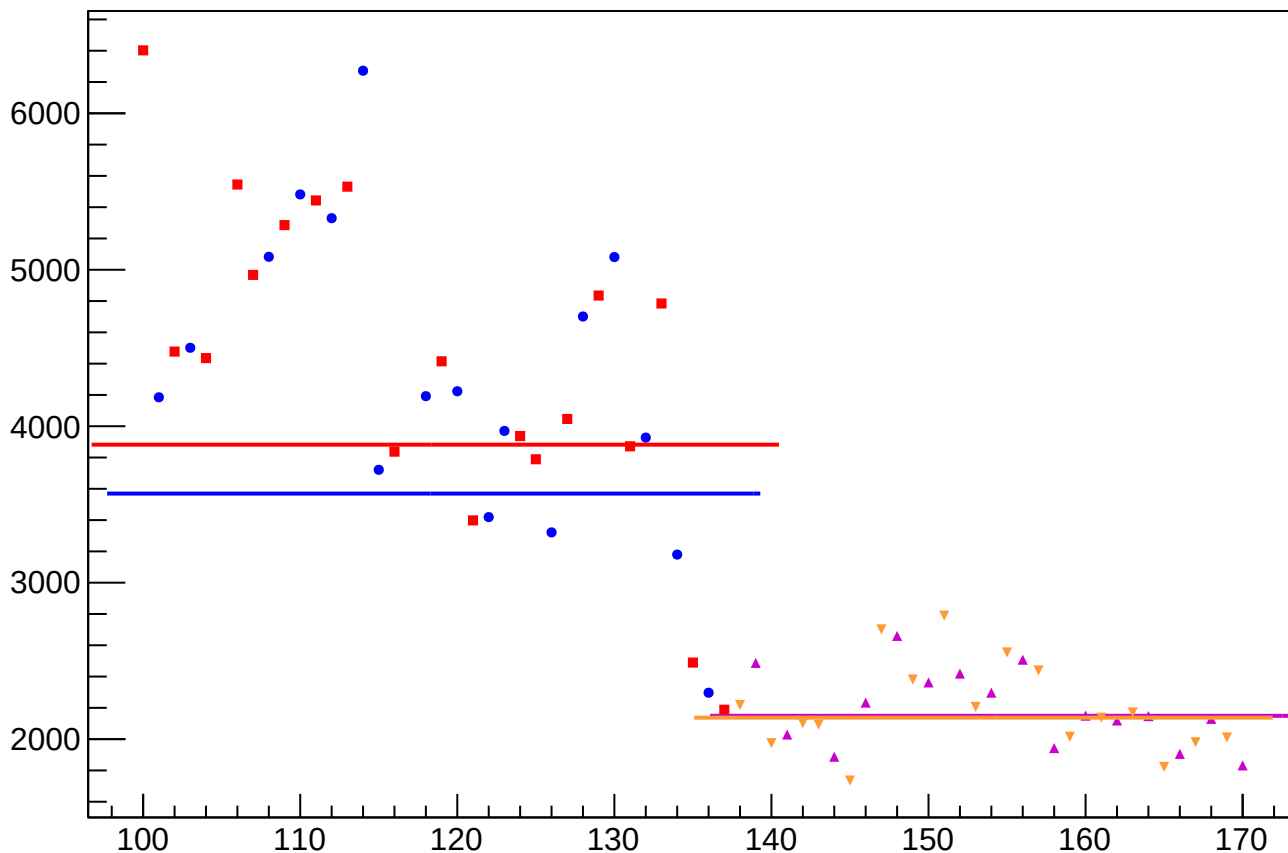
Right: 1139.446+/-1044.821 χ^2/NDF : 33.6/35

In: 783.313+/-563.787 χ^2/NDF : 41.2/32

Out: 1495.777+/-561.810 χ^2/NDF : 41.3/35

All: 1140.796+/-397.957 χ^2/NDF : 83.4/68

asym_sam2_rms vs Slug, Sign Corrected



Right In: 3569.631 ± 1.024 $\chi^2/\text{NDF}: 1087935.4/16$

Left Out: 2137.256 ± 0.428 $\chi^2/\text{NDF}: 391172.2/16$

Right Out: 3882.169 ± 1.067 $\chi^2/\text{NDF}: 983087.5/18$

Left In: 2149.058 ± 0.433 $\chi^2/\text{NDF}: 284232.8/15$

Left: 2143.091 ± 0.304 $\chi^2/\text{NDF}: 675781.0/32$

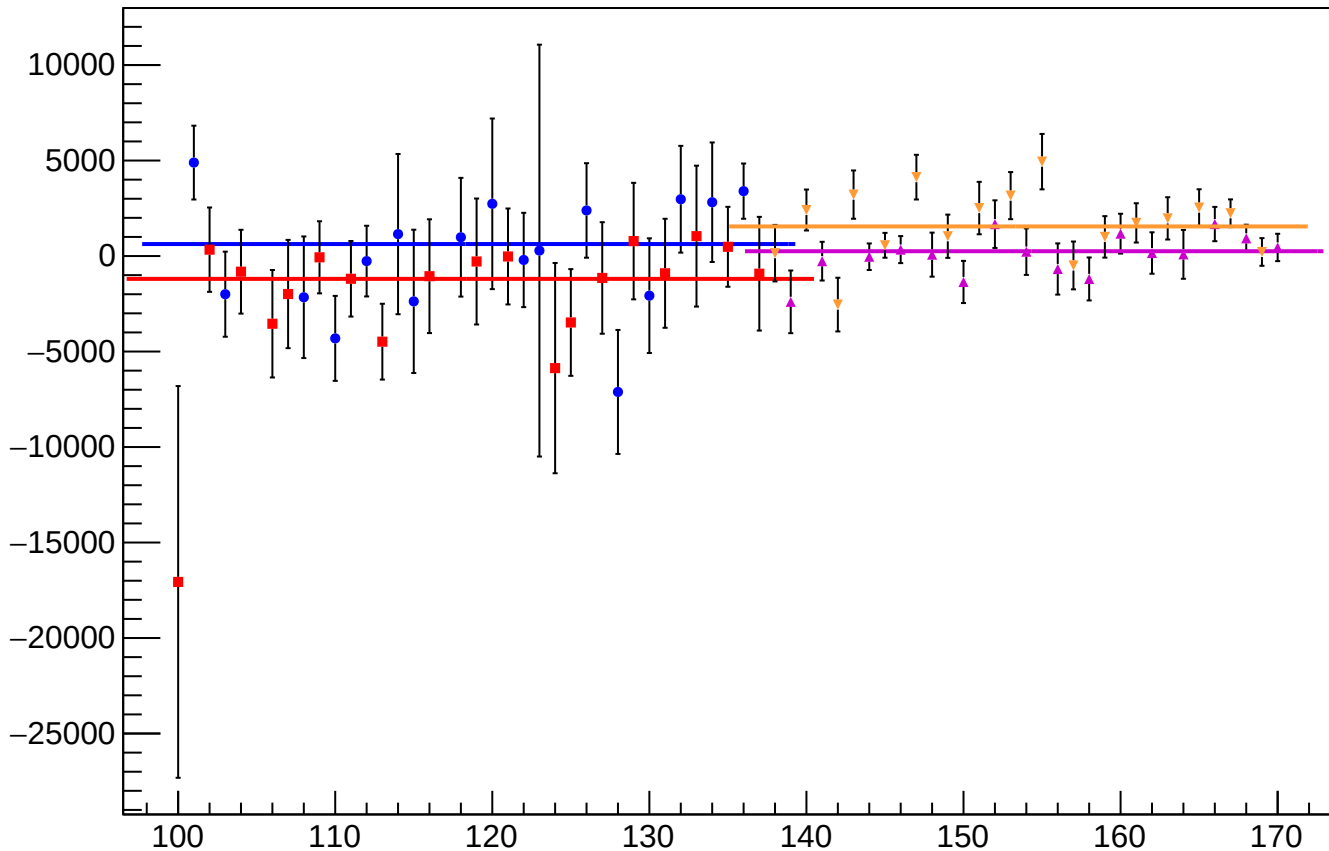
Right: 3719.420 ± 0.739 $\chi^2/\text{NDF}: 2115685.3/35$

In: 2364.449 ± 0.399 $\chi^2/\text{NDF}: 3005517.8/32$

Out: 2379.050 ± 0.397 $\chi^2/\text{NDF}: 3677236.6/35$

All: 2371.775 ± 0.281 $\chi^2/\text{NDF}: 6683427.5/68$

asym_sam3_mean vs Slug, Sign Corrected



Right In: 627.655+/-620.929 χ^2/NDF : 25.1/16

Left Out: 1550.264+/-248.974 χ^2/NDF : 35.3/16

Right Out: -1195.385+/-603.058 χ^2/NDF : 9.9/18

Left In: 252.553+/-241.198 χ^2/NDF : 12.9/15

Left: 880.826+/-173.236 χ^2/NDF : 62.2/32

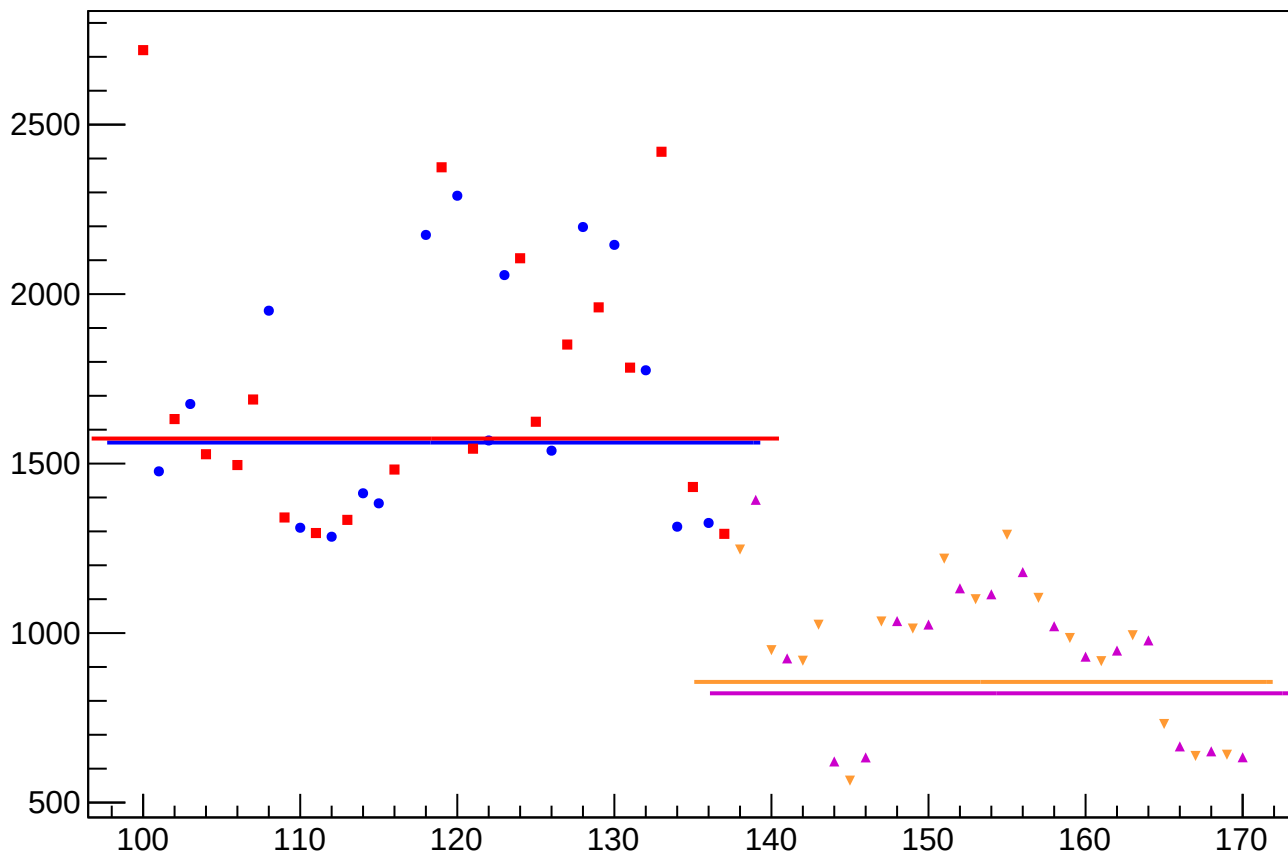
Right: -310.478+/-432.606 χ^2/NDF : 39.4/35

In: 301.732+/-224.831 χ^2/NDF : 38.3/32

Out: 1150.427+/-230.133 χ^2/NDF : 62.9/35

All: 716.191+/-160.821 χ^2/NDF : 108.2/68

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1562.101 ± 0.439 $\chi^2/\text{NDF}: 482088.3/16$

Left Out: 855.918 ± 0.176 $\chi^2/\text{NDF}: 1613306.8/16$

Right Out: 1573.906 ± 0.426 $\chi^2/\text{NDF}: 463991.4/18$

Left In: 822.321 ± 0.171 $\chi^2/\text{NDF}: 1544912.6/15$

Left: 838.587 ± 0.122 $\chi^2/\text{NDF}: 3177005.7/32$

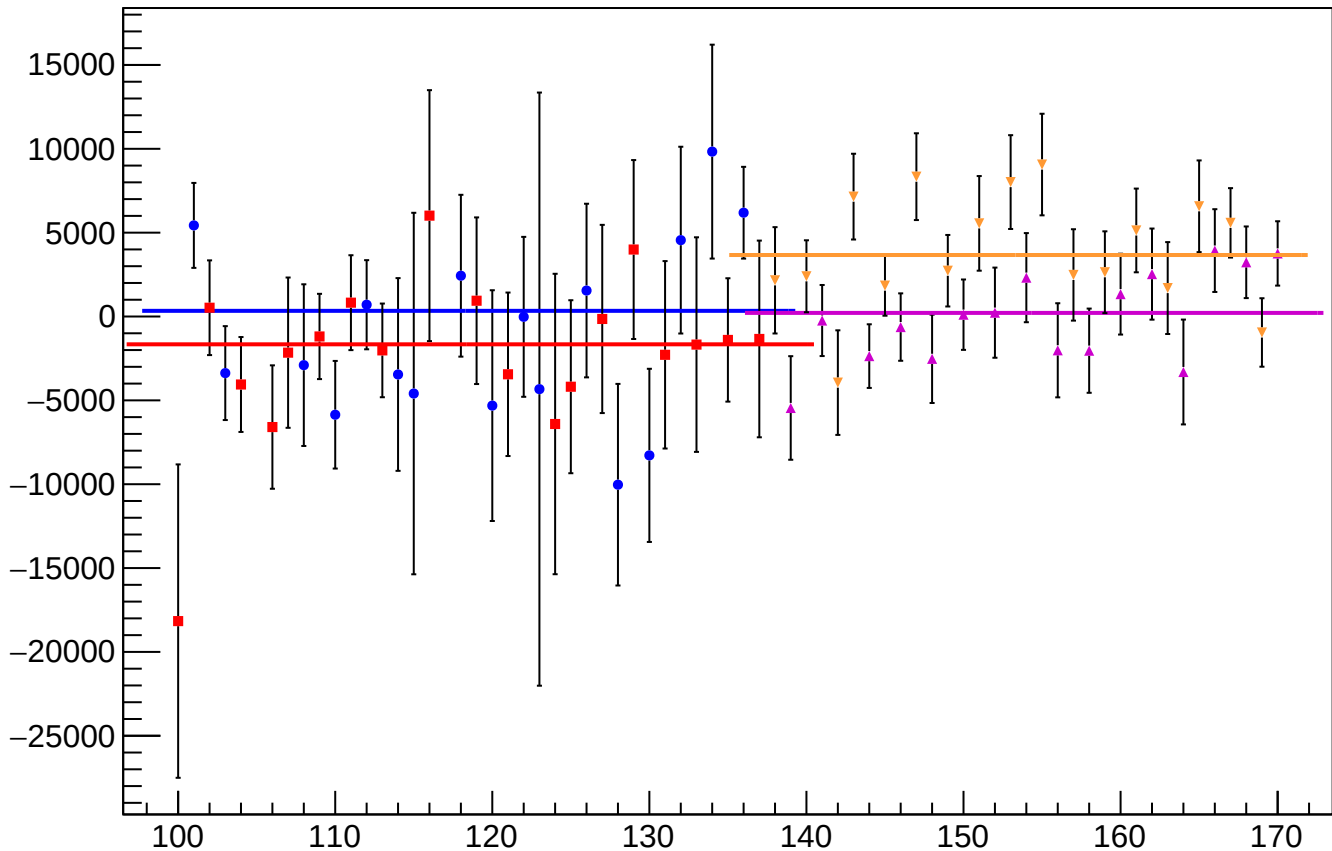
Right: 1568.176 ± 0.306 $\chi^2/\text{NDF}: 946451.6/35$

In: 919.312 ± 0.159 $\chi^2/\text{NDF}: 4493704.4/32$

Out: 960.475 ± 0.163 $\chi^2/\text{NDF}: 4499415.6/35$

All: 939.414 ± 0.114 $\chi^2/\text{NDF}: 9025859.3/68$

asym_sam4_mean vs Slug, Sign Corrected



Right In: 338.117 ± 995.842 χ^2/NDF : 24.8/16

Left Out: 3667.110 ± 595.696 χ^2/NDF : 27.2/16

Right Out: -1658.069 ± 924.453 χ^2/NDF : 10.3/18

Left In: 215.162 ± 591.853 χ^2/NDF : 18.5/15

Left: 1929.964 ± 419.855 χ^2/NDF : 62.6/32

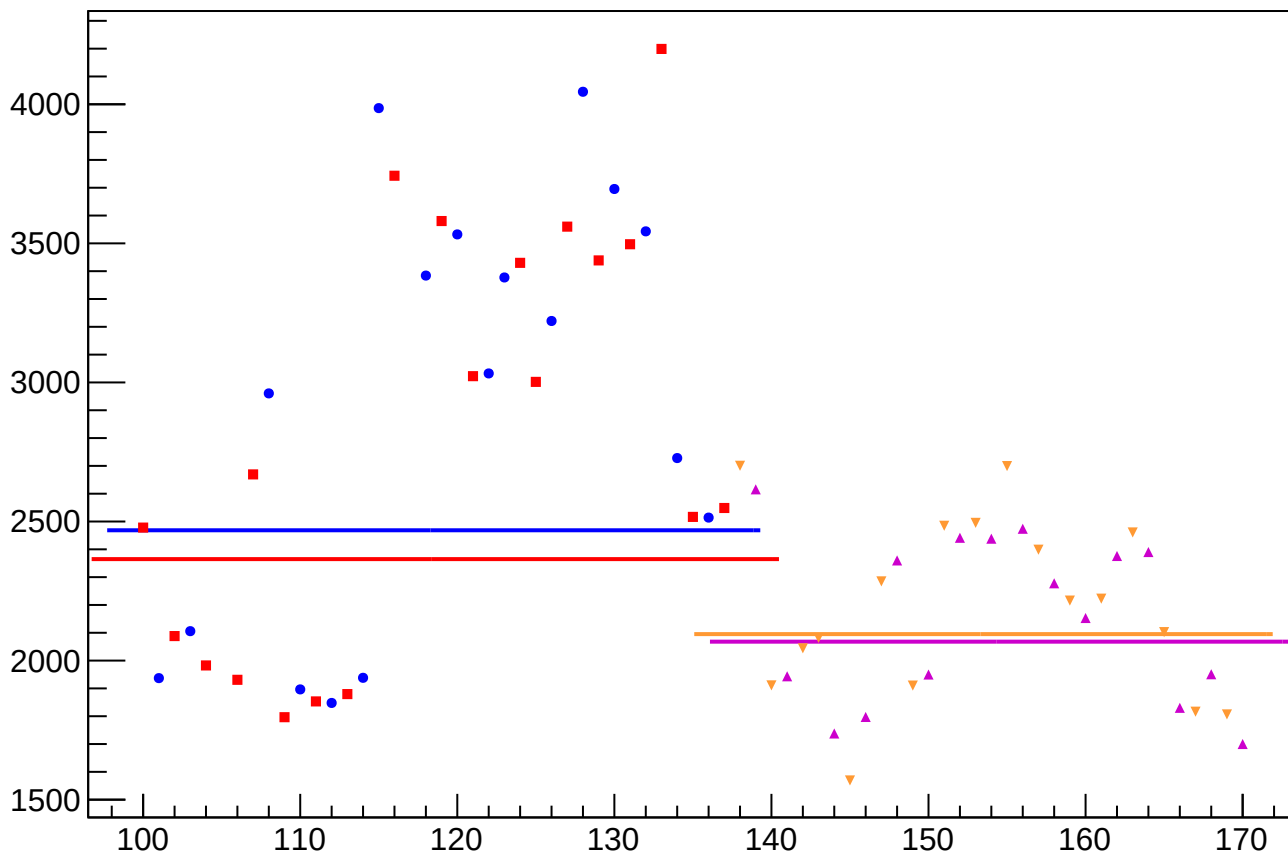
Right: -734.084 ± 677.520 χ^2/NDF : 37.2/35

In: 247.256 ± 508.779 χ^2/NDF : 43.3/32

Out: 2104.719 ± 500.740 χ^2/NDF : 61.0/35

All: 1190.778 ± 356.885 χ^2/NDF : 111.0/68

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2468.489+/-0.704 χ^2/NDF : 896153.6/16

Left Out: 2095.204+/-0.421 χ^2/NDF : 591199.9/16

Right Out: 2364.833+/-0.654 χ^2/NDF : 1025161.0/18

Left In: 2068.042+/-0.419 χ^2/NDF : 478417.6/15

Left: 2081.535+/-0.297 χ^2/NDF : 1071710.1/32

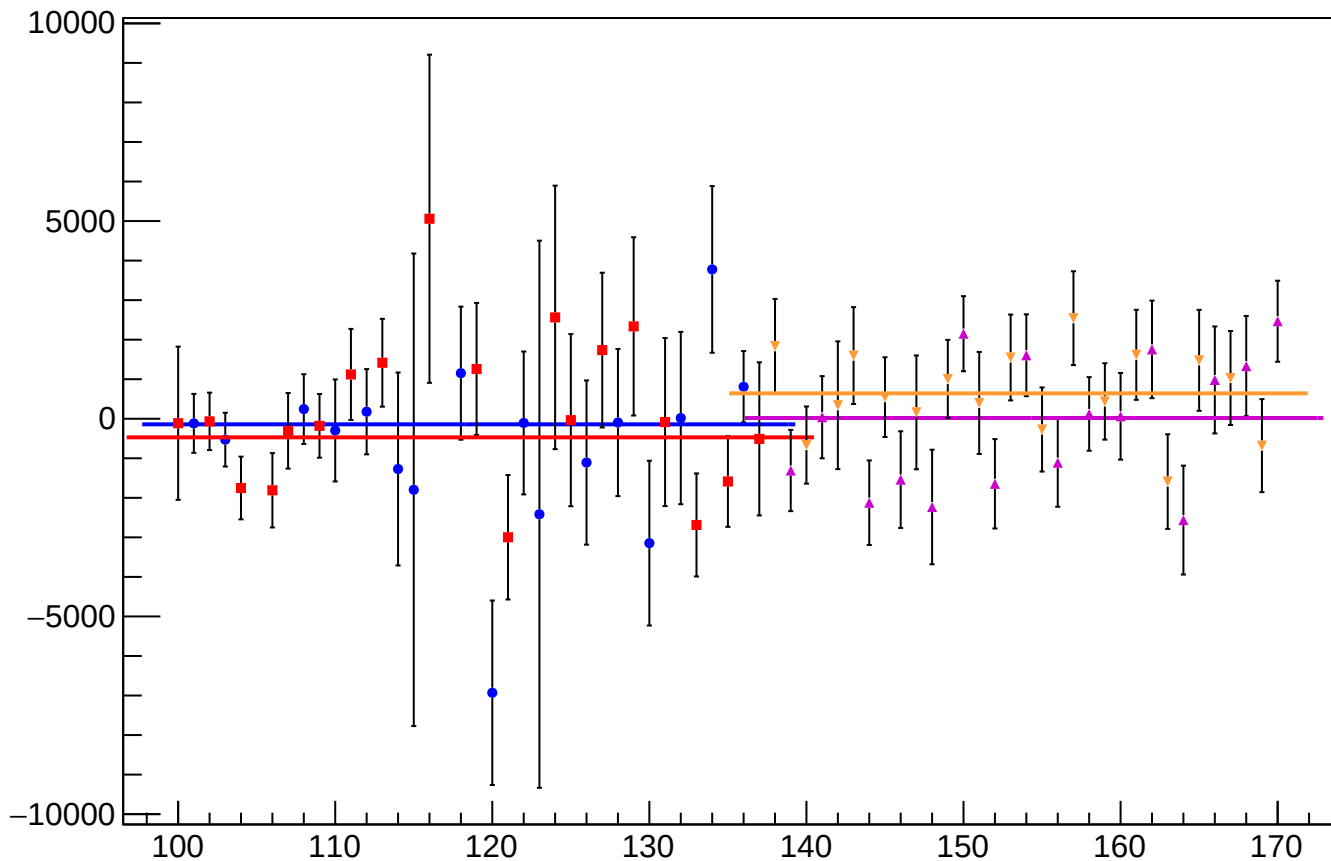
Right: 2412.813+/-0.479 χ^2/NDF : 1932953.4/35

In: 2172.568+/-0.360 χ^2/NDF : 1613556.0/32

Out: 2174.313+/-0.354 χ^2/NDF : 1736578.5/35

All: 2173.454+/-0.252 χ^2/NDF : 3350146.5/68

asym_sam5_mean vs Slug, Sign Corrected



Right In: -141.213+/-313.319 χ^2/NDF : 16.9/16

Left Out: 642.287+/-278.242 χ^2/NDF :13.8/16

Right Out: -470.143+/-282.892 χ^2/NDF : 22.9/18

Left In: 19.586+/-279.320 χ^2/NDF :33.1/15

Left: 332.140+/-197.127 χ^2/NDF : 49.4/32

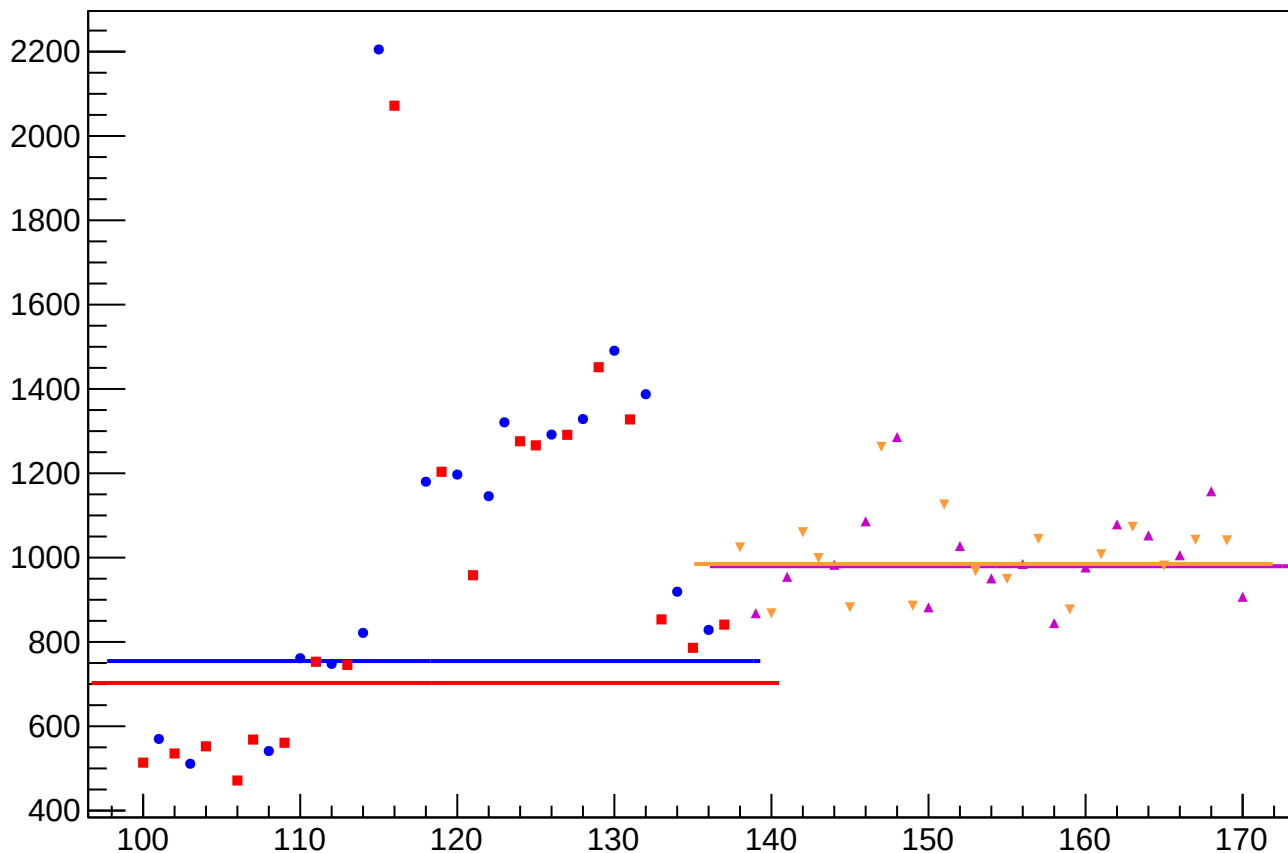
Right: -322.421+/-209.970 χ^2/NDF : 40.5/35

In: -51.619+/-208.497 χ^2/NDF :50.2/32

Out: 95.291+/-198.370 χ^2/NDF :44.6/35

All: 25.490+/-143.716 χ^2/NDF : 95.0/68

asym_sam5_rms vs Slug, Sign Corrected



Right In: 754.684+/-0.222 χ^2/NDF : 1690621.2/16

Left Out: 984.763+/-0.197 χ^2/NDF : 228401.4/16

Right Out: 702.721+/-0.200 χ^2/NDF : 1691602.9/18

Left In: 979.576+/-0.198 χ^2/NDF : 266296.3/15

Left: 982.179+/-0.139 χ^2/NDF : 495043.8/32

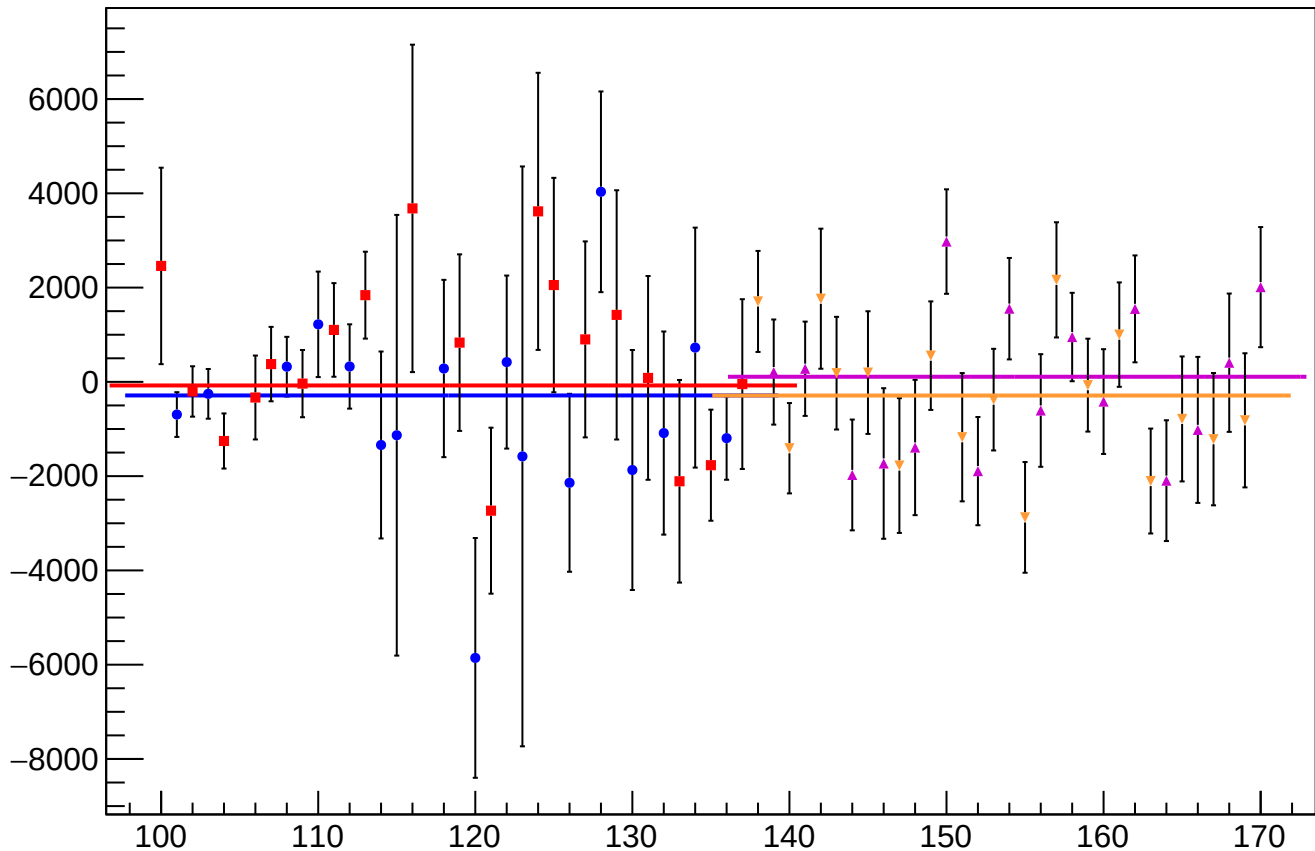
Right: 726.058+/-0.148 χ^2/NDF : 3412528.8/35

In: 879.989+/-0.147 χ^2/NDF : 2531035.6/32

Out: 846.079+/-0.140 χ^2/NDF : 2930471.3/35

All: 862.191+/-0.102 χ^2/NDF : 5489274.4/68

asym_sam6_mean vs Slug, Sign Corrected



Right In: -288.037 ± 250.436 χ^2/NDF : 16.2/16

Left Out: -289.815 ± 289.087 χ^2/NDF : 22.8/16

Right Out: -76.119 ± 246.083 χ^2/NDF : 21.4/18

Left In: 108.496 ± 296.547 χ^2/NDF : 25.9/15

Left: -95.732 ± 207.002 χ^2/NDF : 49.6/32

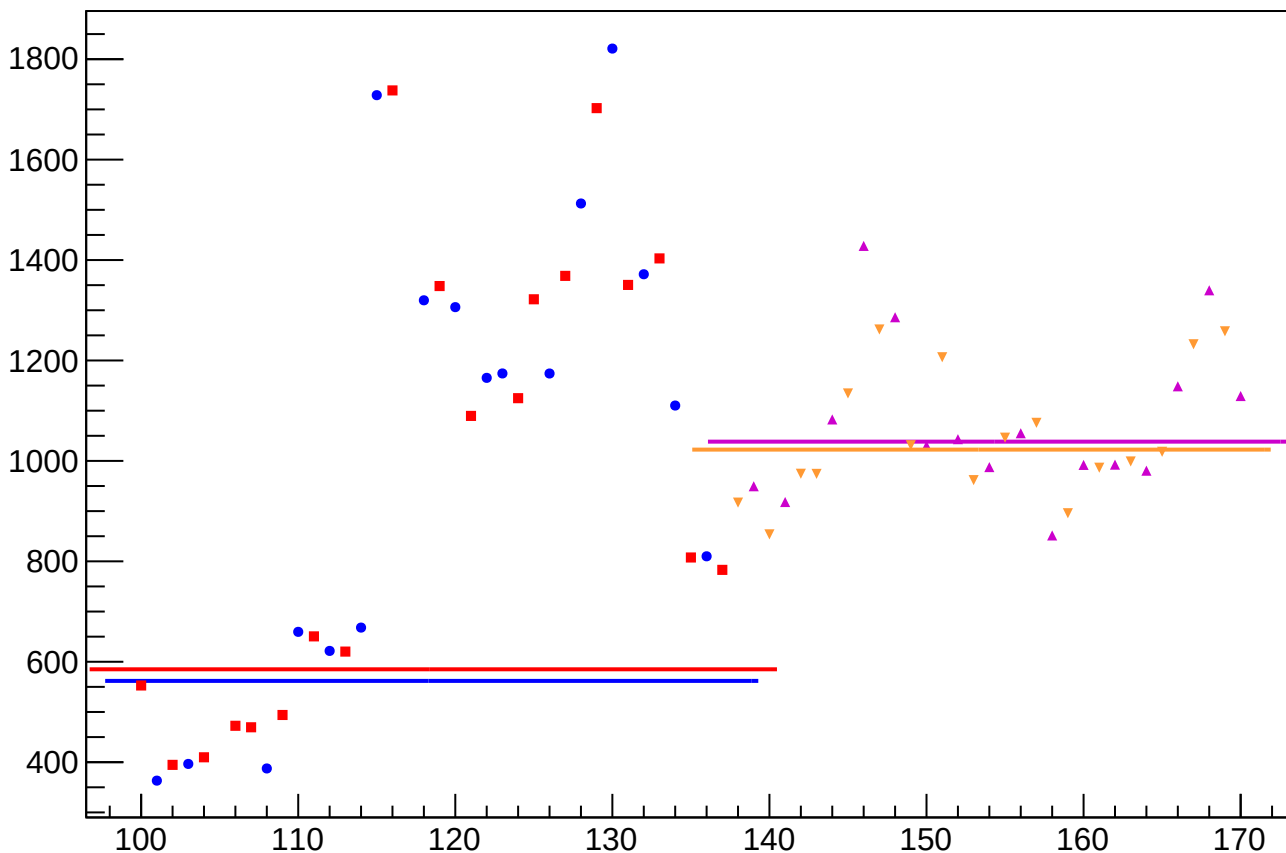
Right: -180.221 ± 175.526 χ^2/NDF : 37.9/35

In: -122.963 ± 191.334 χ^2/NDF : 43.1/32

Out: -165.905 ± 187.386 χ^2/NDF : 44.4/35

All: -144.882 ± 133.876 χ^2/NDF : 87.6/68

asym_sam6_rms vs Slug, Sign Corrected



Right In: 561.894 $\pm$ 0.177 χ^2 /NDF: 3216651.3/16

Left Out: 1022.490 $\pm$ 0.204 χ^2 /NDF:340862.3/16

Right Out: 584.993 $\pm$ 0.174 χ^2 /NDF: 2824449.5/18

Left In: 1038.358 $\pm$ 0.210 χ^2 /NDF:422928.2/15

Left: 1030.222 $\pm$ 0.146 χ^2 /NDF: 766726.6/32

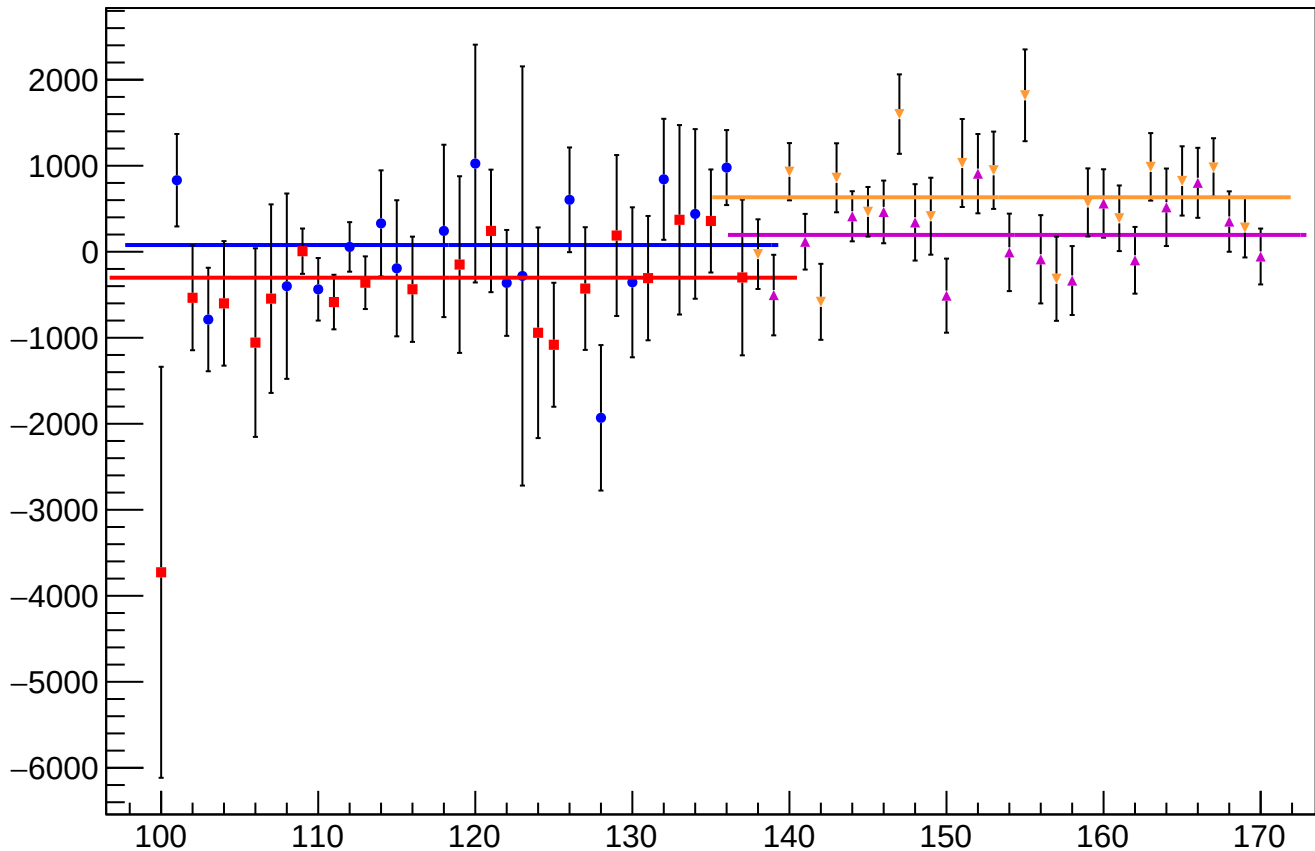
Right: 573.646 $\pm$ 0.124 χ^2 /NDF: 6049757.3/35

In: 760.243 $\pm$ 0.135 χ^2 /NDF:6653265.5/32

Out: 768.811 $\pm$ 0.133 χ^2 /NDF:5821327.7/35

All: 764.616 $\pm$ 0.095 χ^2 /NDF: 12476640.6/68

asym_sam7_mean vs Slug, Sign Corrected



Right In: 78.184 ± 142.869 $\chi^2/\text{NDF}: 19.8/16$

Left Out: 633.186 ± 96.438 $\chi^2/\text{NDF}: 29.6/16$

Right Out: -301.651 ± 129.650 $\chi^2/\text{NDF}: 9.1/18$

Left In: 195.734 ± 97.556 $\chi^2/\text{NDF}: 15.8/15$

Left: 416.982 ± 68.584 $\chi^2/\text{NDF}: 55.6/32$

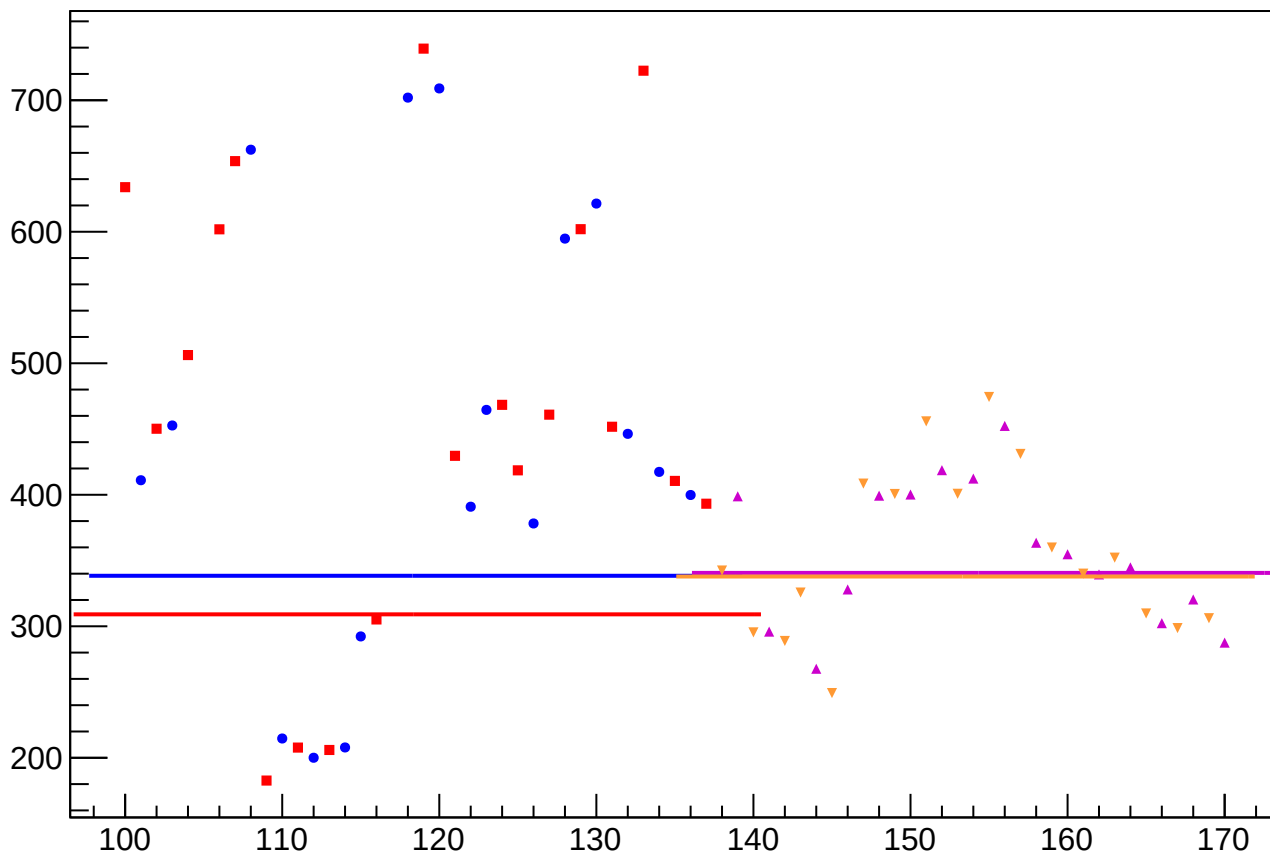
Right: -130.116 ± 96.010 $\chi^2/\text{NDF}: 32.7/35$

In: 158.354 ± 80.566 $\chi^2/\text{NDF}: 36.0/32$

Out: 300.192 ± 77.379 $\chi^2/\text{NDF}: 72.2/35$

All: 232.134 ± 55.808 $\chi^2/\text{NDF}: 109.8/68$

asym_sam7_rms vs Slug, Sign Corrected



Right In: 338.408 $\pm$ 0.101 χ^2 /NDF: 2009287.1/16

Left Out: 337.845 $\pm$ 0.068 χ^2 /NDF: 745447.4/16

Right Out: 309.081 $\pm$ 0.092 χ^2 /NDF: 2733465.5/18

Left In: 340.594 $\pm$ 0.069 χ^2 /NDF: 559715.6/15

Left: 339.204 $\pm$ 0.048 χ^2 /NDF: 1305965.8/32

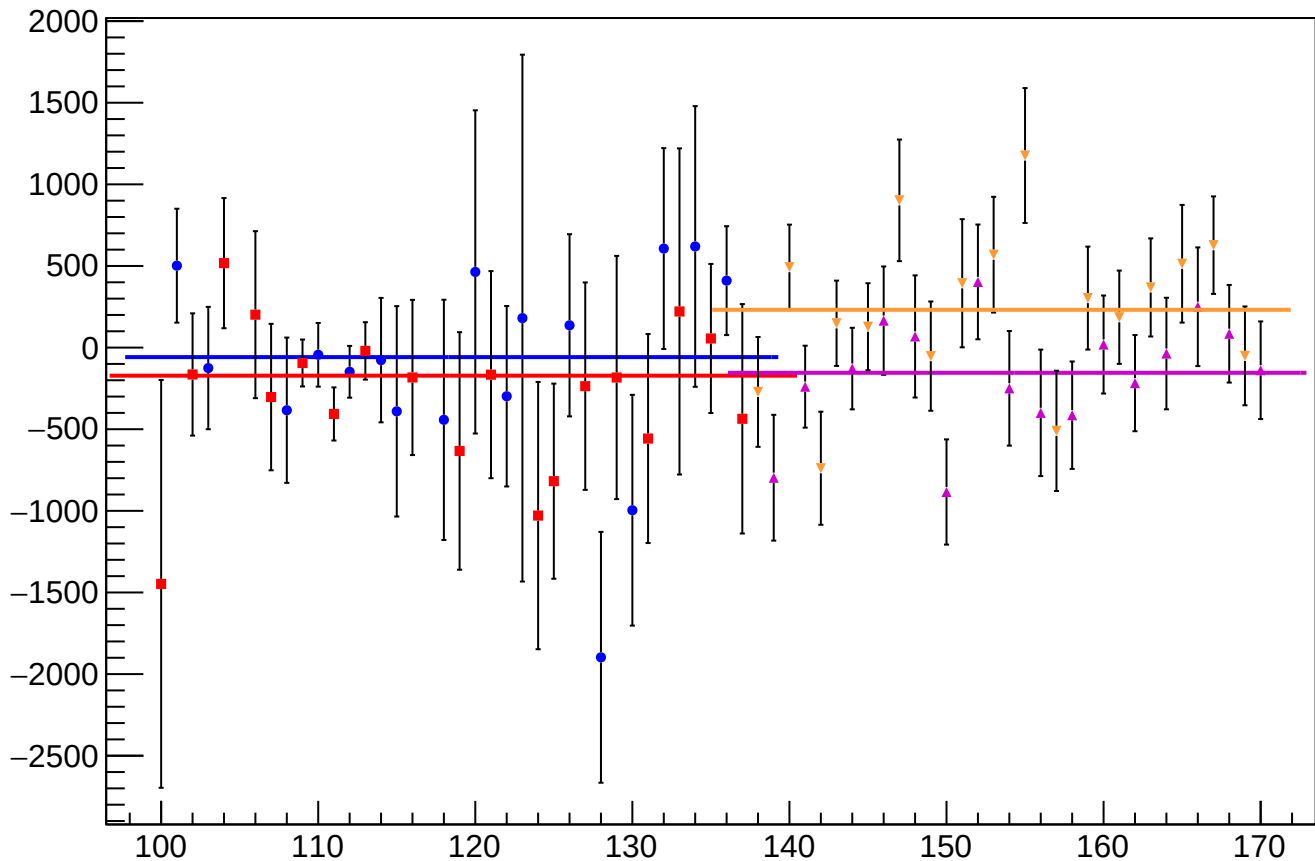
Right: 322.325 $\pm$ 0.068 χ^2 /NDF: 4788966.2/35

In: 339.899 $\pm$ 0.057 χ^2 /NDF: 2569322.0/32

Out: 327.599 $\pm$ 0.055 χ^2 /NDF: 3542291.6/35

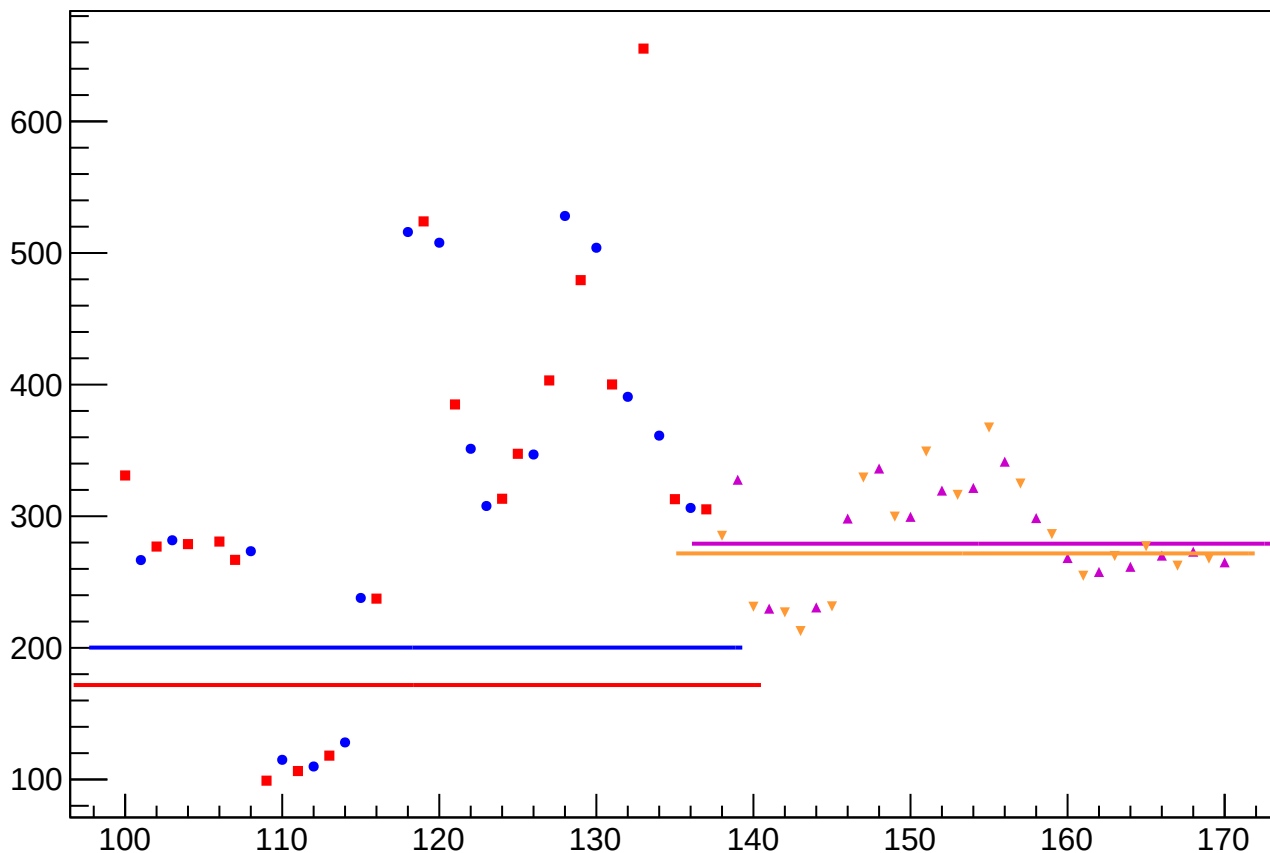
All: 333.501 $\pm$ 0.039 χ^2 /NDF: 6135858.9/68

asym_sam8_mean vs Slug, Sign Corrected



Left: 44.508 ± 55.435 $\chi^2/\text{NDF}: 56.6/32$
 Right: -124.276 ± 58.606 $\chi^2/\text{NDF}: 28.1/35$
 In: -112.408 ± 59.778 $\chi^2/\text{NDF}: 31.8/32$
 Out: 28.975 ± 54.496 $\chi^2/\text{NDF}: 54.2/35$
 All: -35.195 ± 40.273 $\chi^2/\text{NDF}: 89.1/68$

asym_sam8_rms vs Slug, Sign Corrected



Right In: 200.209+/-0.064 χ^2/NDF : 3387197.7/16

Left Out: 271.753+/-0.055 χ^2/NDF :566715.3/16

Right Out: 171.757+/-0.054 χ^2/NDF : 4093922.6/18

Left In: 279.145+/-0.056 χ^2/NDF :384855.2/15

Left: 275.335+/-0.039 χ^2/NDF : 960451.3/32

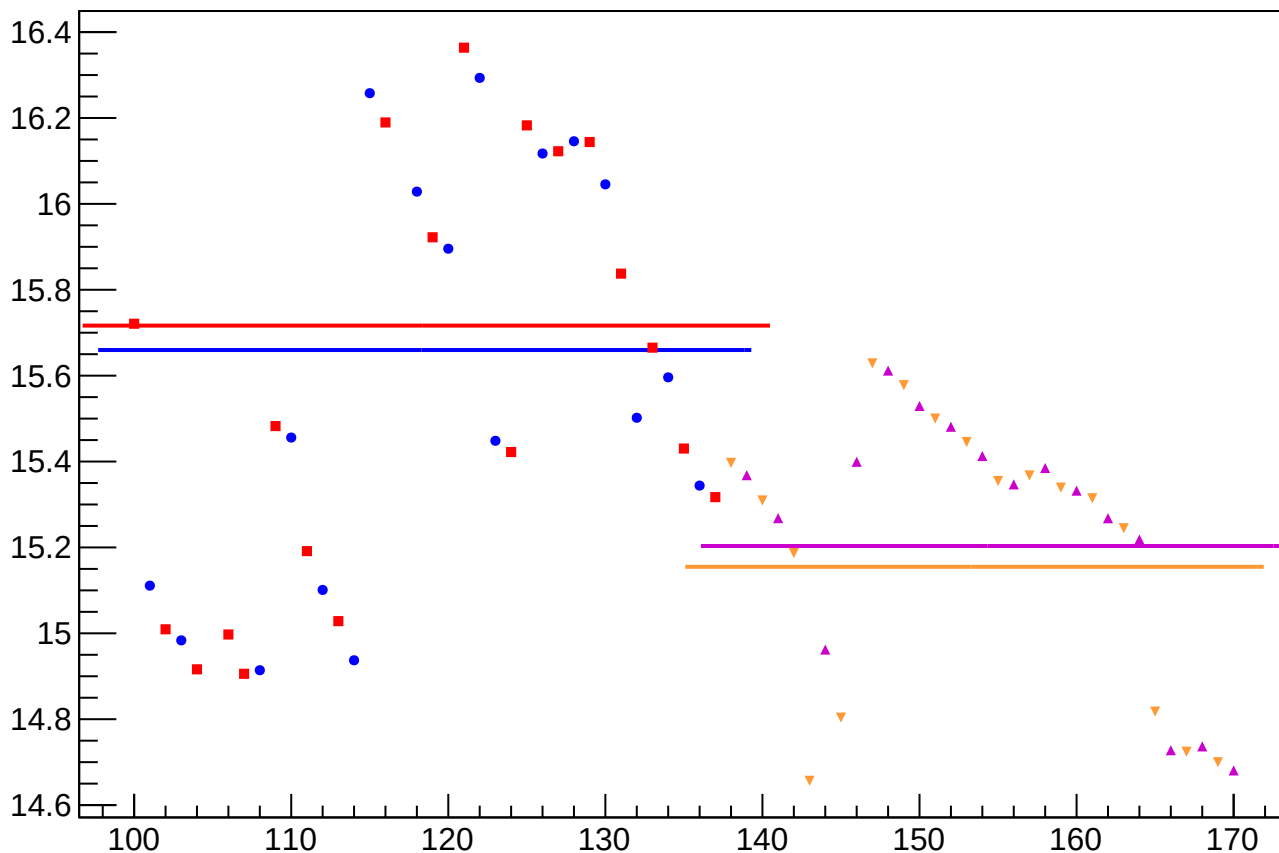
Right: 183.693+/-0.041 χ^2/NDF : 7595909.3/35

In: 244.693+/-0.042 χ^2/NDF :4629802.6/32

Out: 221.561+/-0.039 χ^2/NDF :6344078.3/35

All: 232.060+/-0.028 χ^2/NDF : 11137431.6/68

yield_sam1_mean vs Slug, Sign Corrected



Right In: 15.660 $\pm$ 0.000 χ^2 /NDF: 5782644553.5/16

Left Out: 15.155 $\pm$ 0.000 χ^2 /NDF: 10616982421.3/16

Right Out: 15.717 $\pm$ 0.000 χ^2 /NDF: 5461829475.3/18

Left In: 15.203 $\pm$ 0.000 χ^2 /NDF: 8272540797.6/15

Left: 15.179 $\pm$ 0.000 χ^2 /NDF: 19010756965.6/32

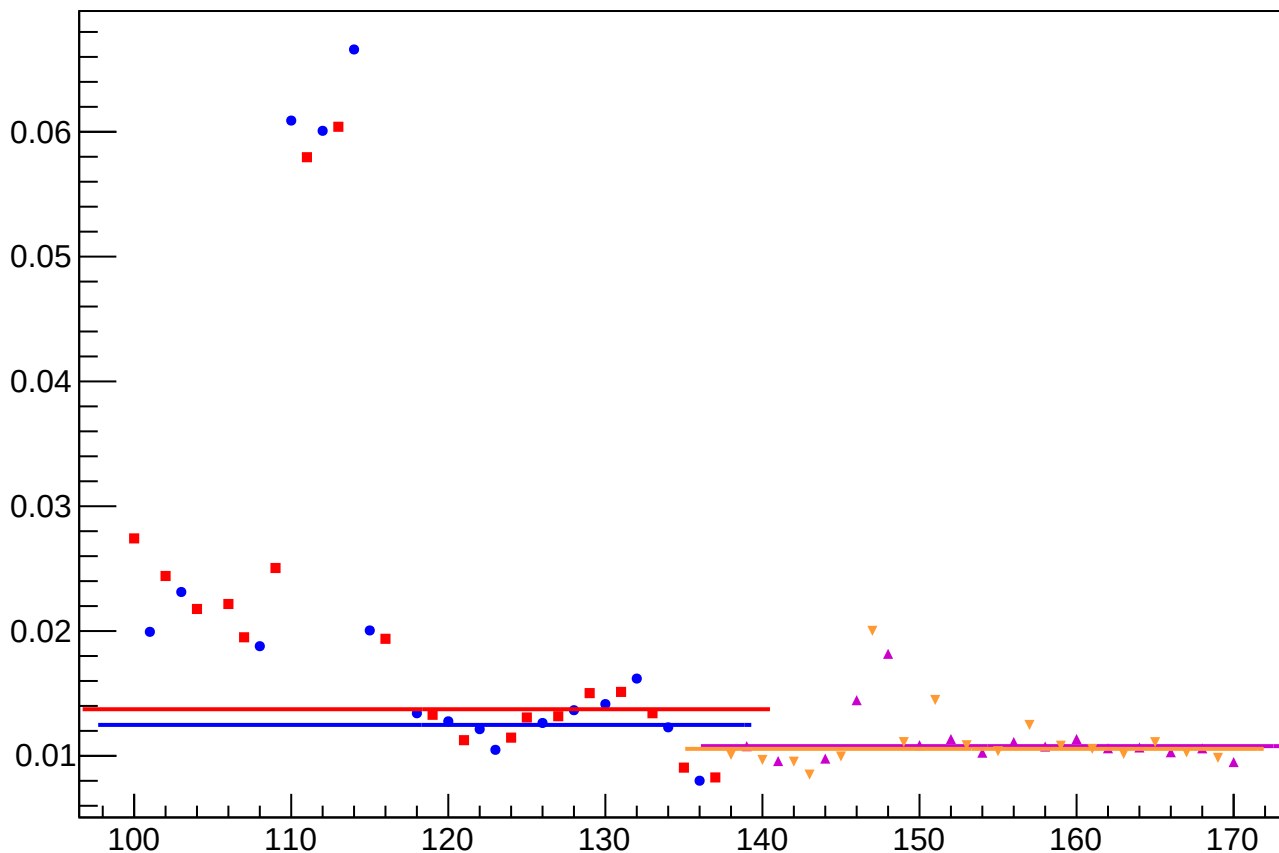
Right: 15.686 $\pm$ 0.000 χ^2 /NDF: 11294352327.9/35

In: 15.316 $\pm$ 0.000 χ^2 /NDF: 19247141514.4/32

Out: 15.275 $\pm$ 0.000 χ^2 /NDF: 23234778772.2/35

All: 15.296 $\pm$ 0.000 χ^2 /NDF: 42594043104.0

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2152911.4/16

Left Out: 0.011+/-0.000 χ^2/NDF :599649.3/16

Right Out: 0.014+/-0.000 χ^2/NDF : 2077569.4/18

Left In: 0.011+/-0.000 χ^2/NDF :433917.8/15

Left: 0.011+/-0.000 χ^2/NDF : 1038445.8/32

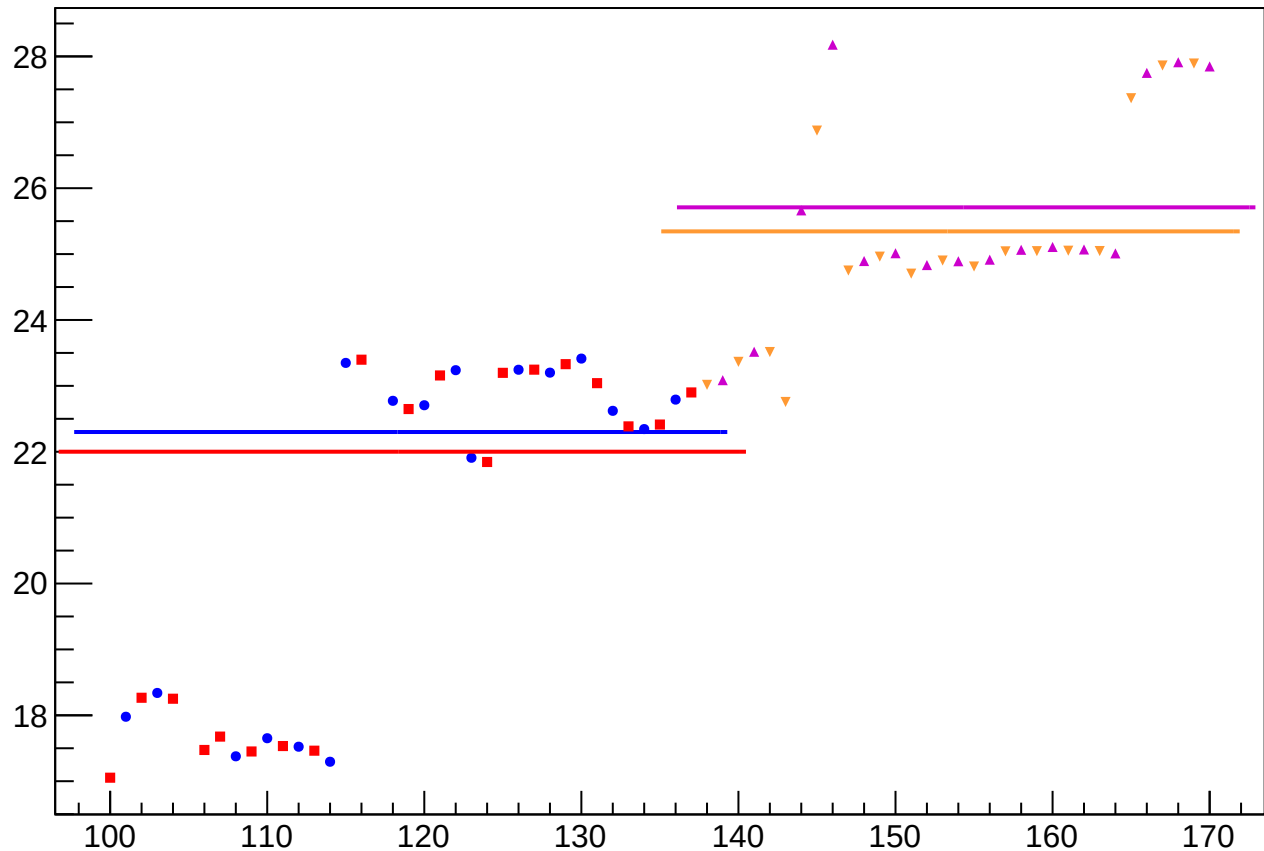
Right: 0.013+/-0.000 χ^2/NDF : 4279107.1/35

In: 0.011+/-0.000 χ^2/NDF :2731096.6/32

Out: 0.011+/-0.000 χ^2/NDF :3134264.9/35

All: 0.011+/-0.000 χ^2/NDF : 5865602.7/68

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.300 $\pm$ 0.000 χ^2/NDF : 938398636.8/16

Left Out: 25.345 $\pm$ 0.000 χ^2/NDF : 2283141154.8/16

Right Out: 22.001 $\pm$ 0.000 χ^2/NDF : 1066041325.5/18

Left In: 25.709 $\pm$ 0.000 χ^2/NDF : 1809963987.0/15

Left: 25.522 $\pm$ 0.000 χ^2/NDF : 4148649869.7/32

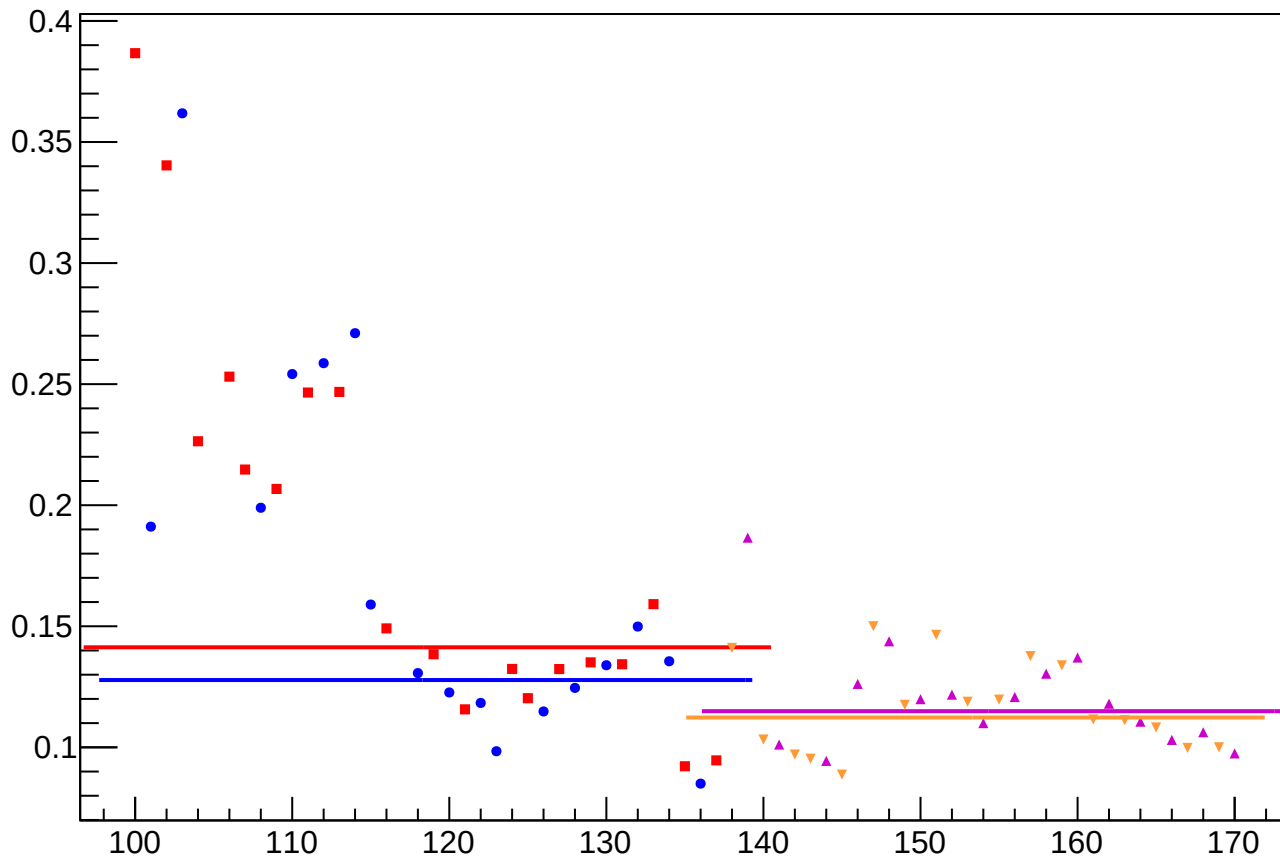
Right: 22.159 $\pm$ 0.000 χ^2/NDF : 2017477949.3/35

In: 24.769 $\pm$ 0.000 χ^2/NDF : 5356173506.1/32

Out: 24.531 $\pm$ 0.000 χ^2/NDF : 5682280427.5/35

All: 24.650 $\pm$ 0.000 χ^2/NDF : 11070512356.4

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.128 $\pm$ 0.000 χ^2 /NDF: 1492109.7/16

Left Out: 0.112 $\pm$ 0.000 χ^2 /NDF:511429.0/16

Right Out: 0.141 $\pm$ 0.000 χ^2 /NDF: 1449275.1/18

Left In: 0.115 $\pm$ 0.000 χ^2 /NDF:517366.5/15

Left: 0.114 $\pm$ 0.000 χ^2 /NDF: 1034530.6/32

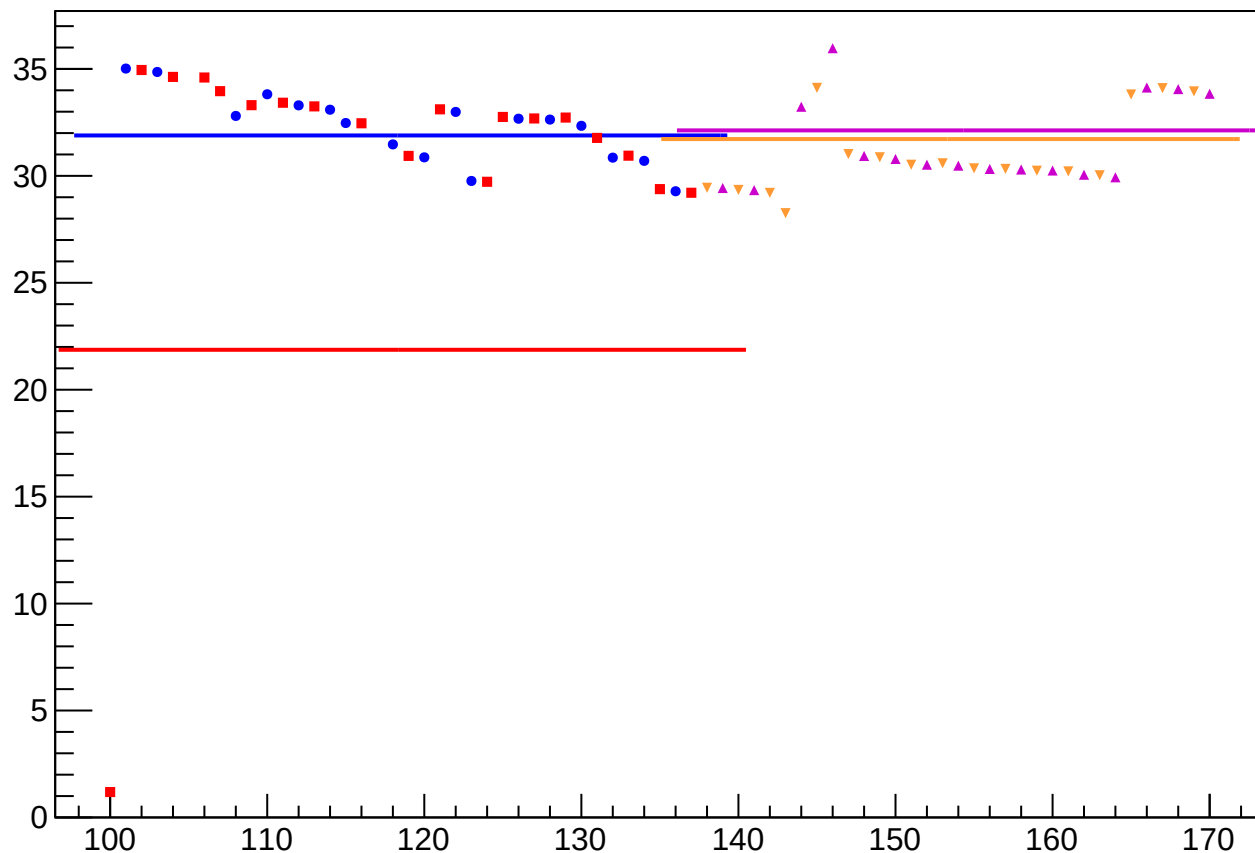
Right: 0.134 $\pm$ 0.000 χ^2 /NDF: 2994732.7/35

In: 0.118 $\pm$ 0.000 χ^2 /NDF:2083617.8/32

Out: 0.119 $\pm$ 0.000 χ^2 /NDF:2311637.0/35

All: 0.119 $\pm$ 0.000 χ^2 /NDF: 4396151.2/68

yield_sam3_mean vs Slug, Sign Corrected



Right In: 31.889+/-0.000

χ^2/NDF : 1930403776.3/16

Left: 31.925+/-0.000

χ^2/NDF : 20163775163.5/32

Left Out: 31.721+/-0.000

χ^2/NDF : 9667885402.7/16

Right: 25.887+/-0.000

χ^2/NDF : 274879927198.7/35

Right Out: 21.867+/-0.000

χ^2/NDF : 230068750081.7/18

In: 32.073+/-0.000

χ^2/NDF : 12257404100.9/32

Out: 28.704+/-0.000

χ^2/NDF : 311438148764.2/35

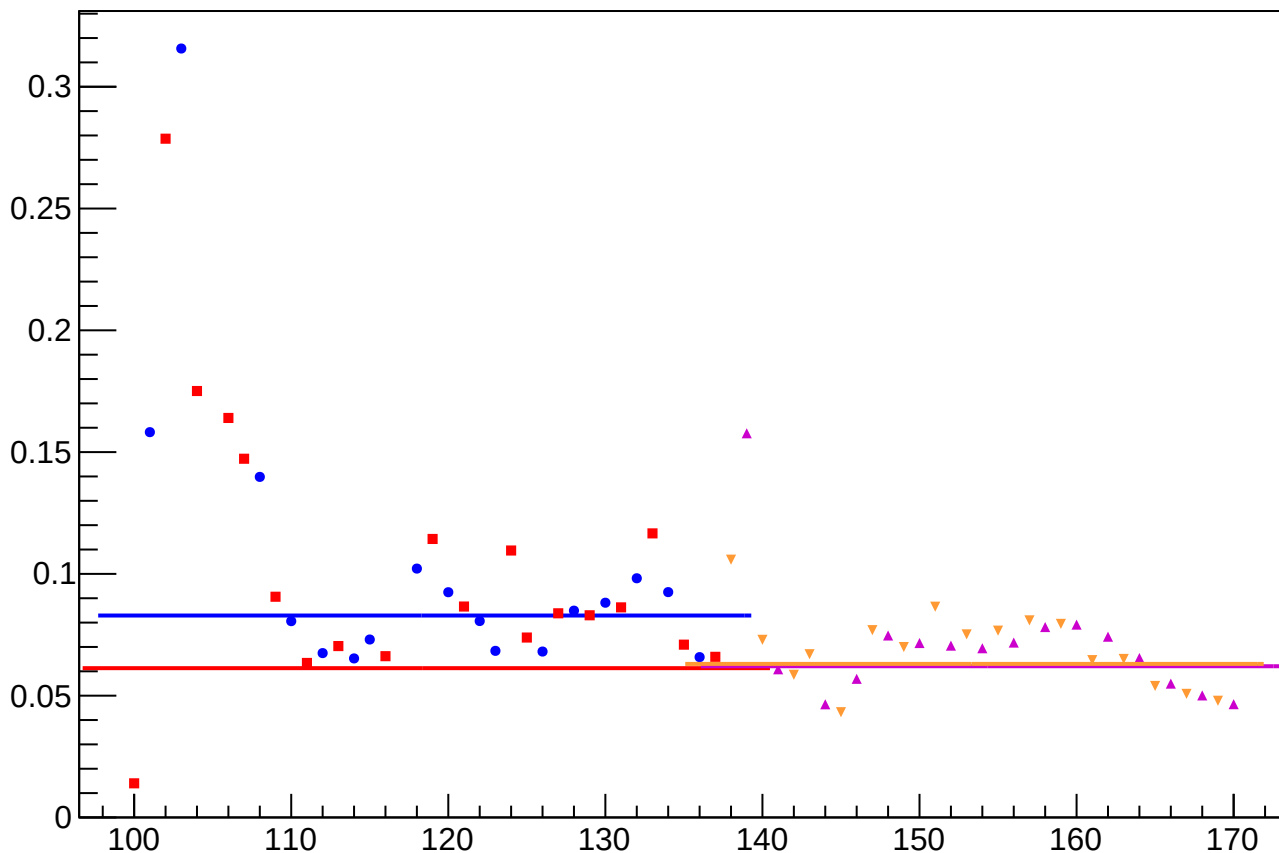
Left In: 32.126+/-0.000

χ^2/NDF : 10295996429.6/15

All: 30.309+/-0.000

χ^2/NDF : 342492595247.0

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.083+/-0.000 χ^2/NDF : 1164452.3/16

Left Out: 0.063+/-0.000 χ^2/NDF :1025990.1/16

Right Out: 0.061+/-0.000 χ^2/NDF : 3603853.3/18

Left In: 0.062+/-0.000 χ^2/NDF :1184477.6/15

Left: 0.063+/-0.000 χ^2/NDF : 2212691.5/32

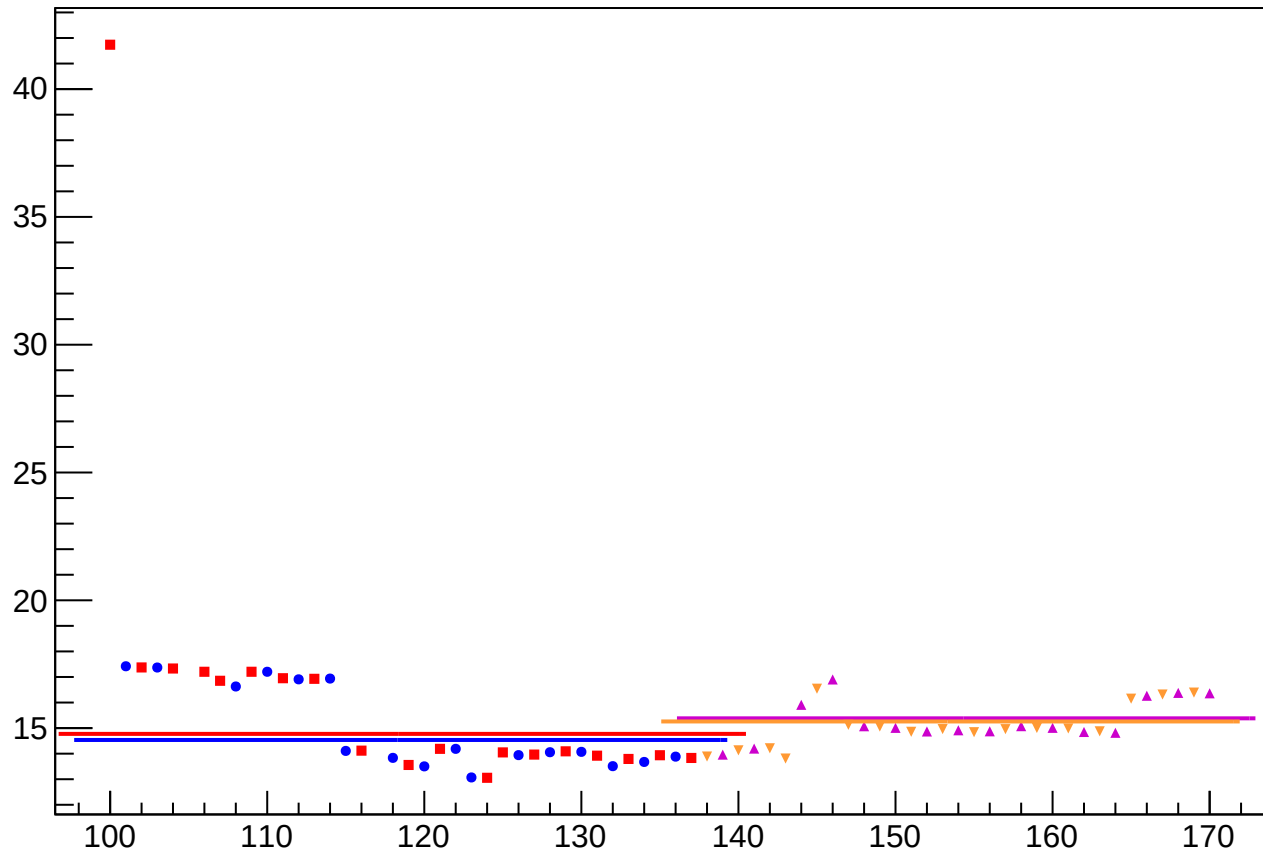
Right: 0.070+/-0.000 χ^2/NDF : 5167150.6/35

In: 0.067+/-0.000 χ^2/NDF :2827728.4/32

Out: 0.063+/-0.000 χ^2/NDF :4634352.8/35

All: 0.065+/-0.000 χ^2/NDF : 7522515.1/68

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.536+/-0.000 χ^2/NDF : 1470499792.7/16

Left Out: 15.260+/-0.000 χ^2/NDF : 1731080311.8/16

Right Out: 14.774+/-0.000 χ^2/NDF : 1886755709.2/18

Left In: 15.382+/-0.000 χ^2/NDF : 1430214333.4/15

Left: 15.320+/-0.000 χ^2/NDF : 3179454858.1/32

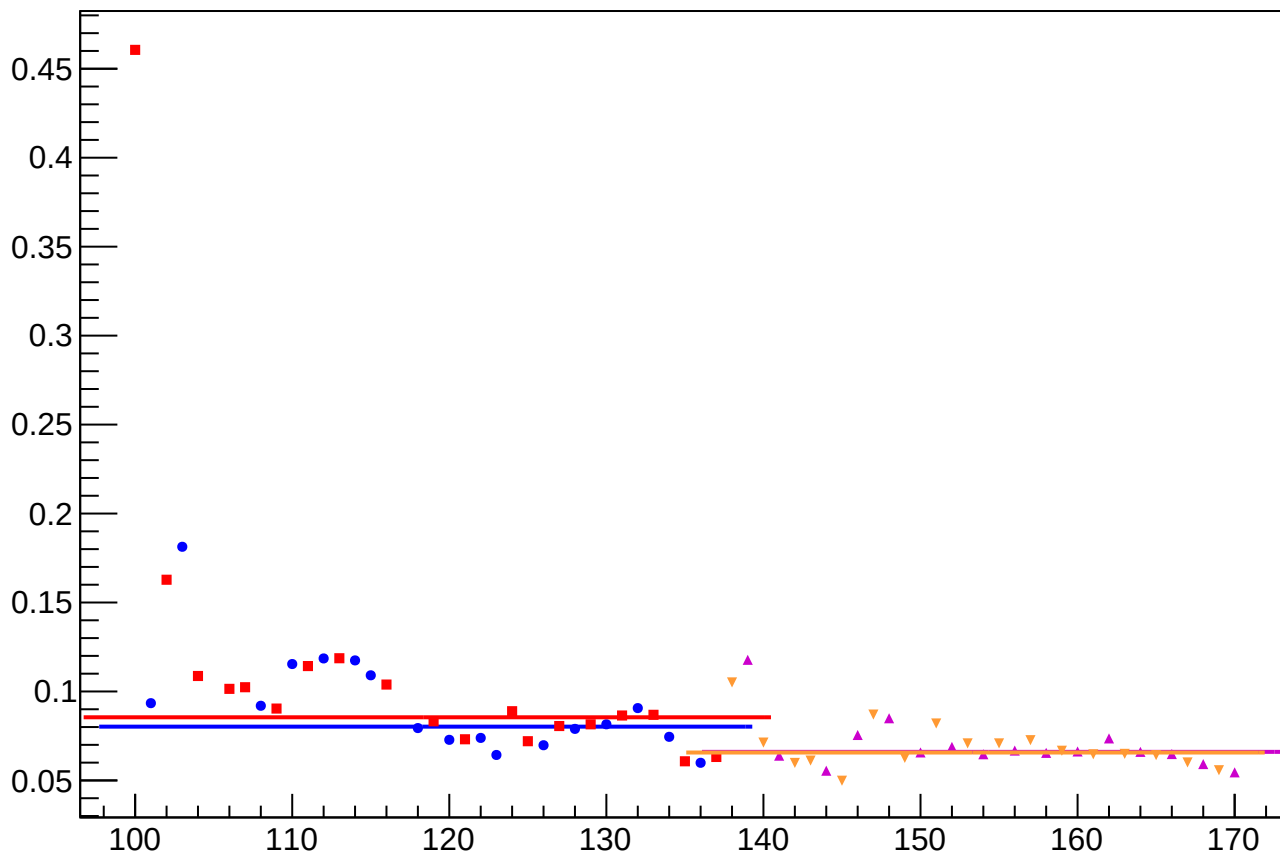
Right: 14.651+/-0.000 χ^2/NDF : 3380785876.4/35

In: 15.160+/-0.000 χ^2/NDF : 3353924063.8/32

Out: 15.140+/-0.000 χ^2/NDF : 3761113928.4/35

All: 15.150+/-0.000 χ^2/NDF : 7115673743.0/6

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.080 $\pm$ 0.000 χ^2 /NDF: 778734.5/16

Left Out: 0.066 $\pm$ 0.000 χ^2 /NDF:545883.1/16

Right Out: 0.085 $\pm$ 0.000 χ^2 /NDF: 738043.0/18

Left In: 0.066 $\pm$ 0.000 χ^2 /NDF:513901.5/15

Left: 0.066 $\pm$ 0.000 χ^2 /NDF: 1060116.9/32

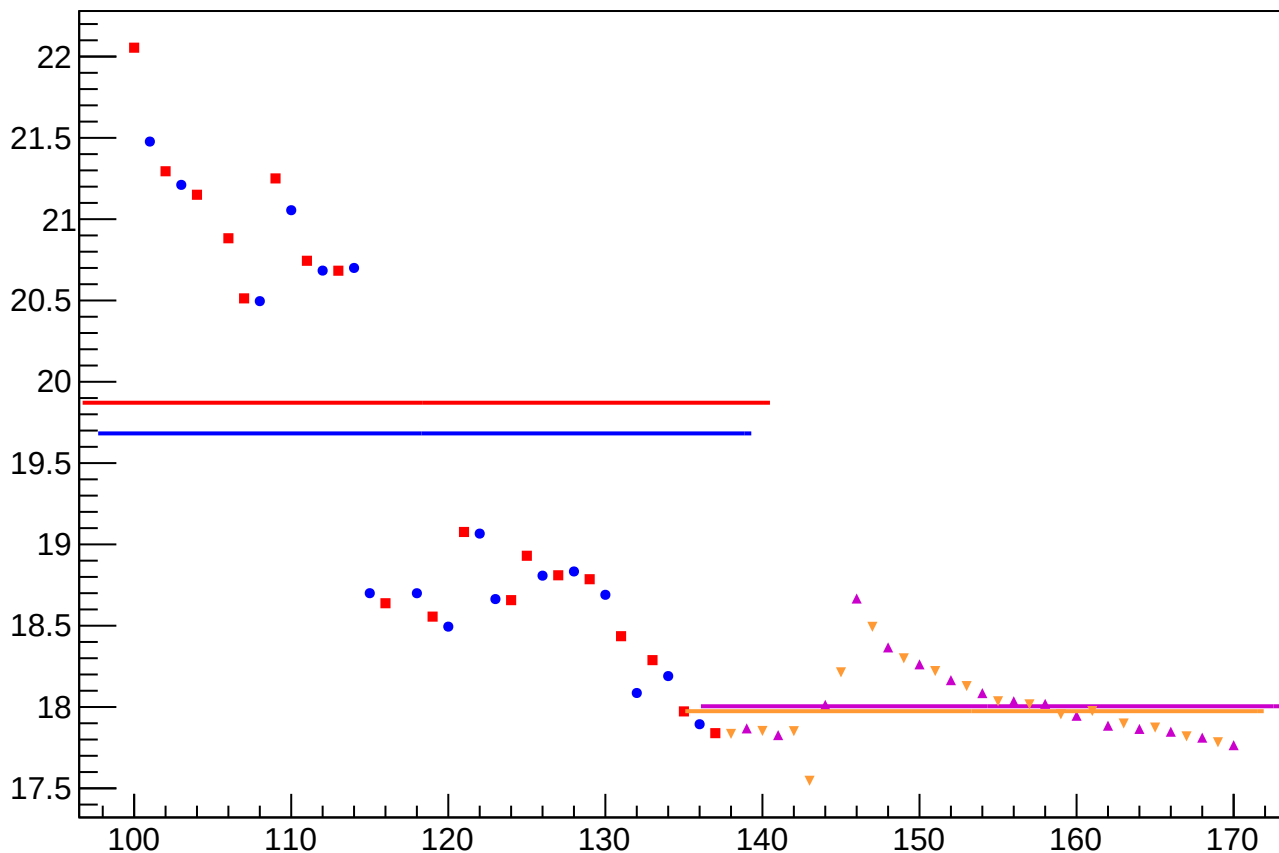
Right: 0.083 $\pm$ 0.000 χ^2 /NDF: 1539722.7/35

In: 0.070 $\pm$ 0.000 χ^2 /NDF:1546755.4/32

Out: 0.071 $\pm$ 0.000 χ^2 /NDF:1759150.3/35

All: 0.070 $\pm$ 0.000 χ^2 /NDF: 3307921.5/68

yield_sam5_mean vs Slug, Sign Corrected



Right In: 19.683+/-0.000 χ^2/NDF : 12276801857.2/16

Left Out: 17.974+/-0.000 χ^2/NDF : 498551256.4/16

Right Out: 19.871+/-0.000 χ^2/NDF : 11324266794.7/18

Left In: 18.005+/-0.000 χ^2/NDF : 519720817.9/15

Left: 17.989+/-0.000 χ^2/NDF : 1023906665.5/32

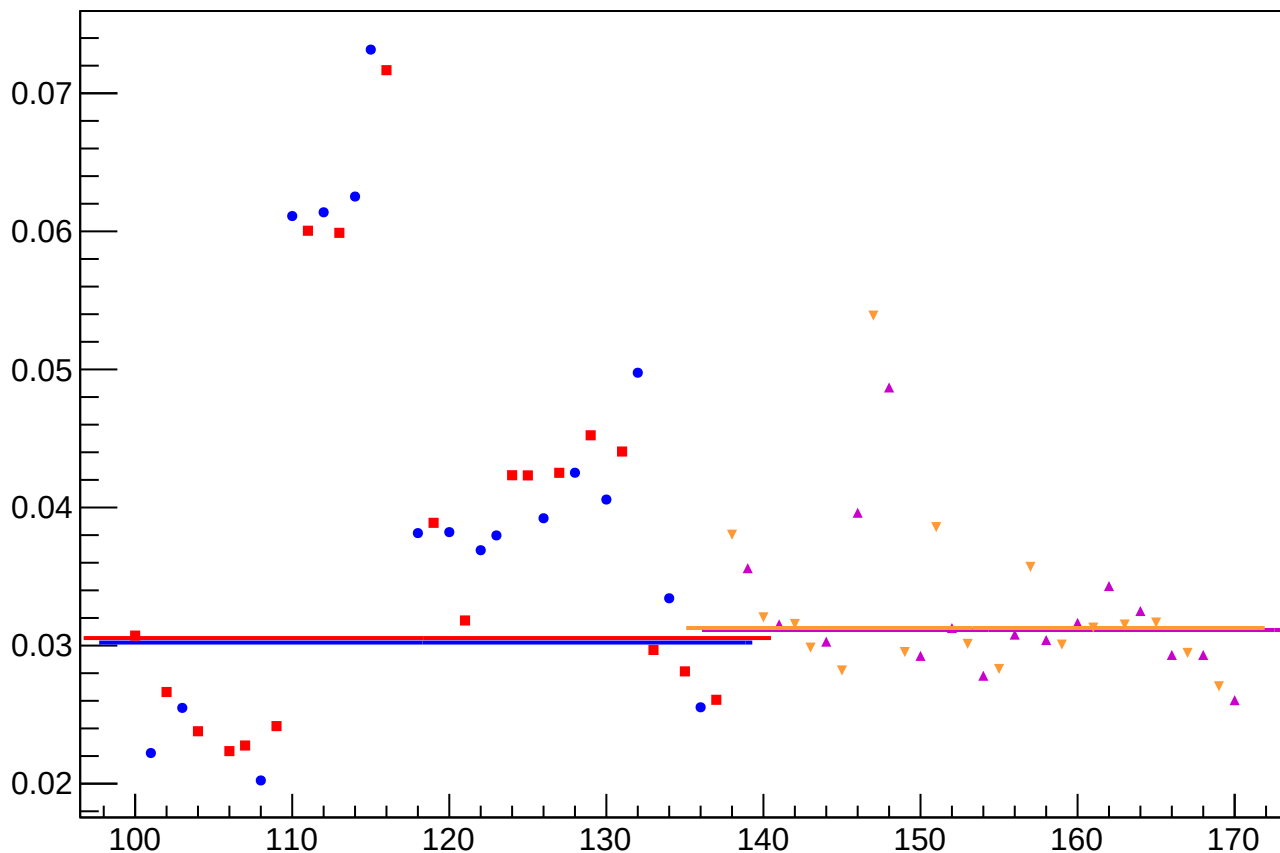
Right: 17.778+/-0.000 χ^2/NDF : 23711776447.8/35

In: 18.564+/-0.000 χ^2/NDF : 24266828024.2/32

Out: 18.620+/-0.000 χ^2/NDF : 26827689173.0/35

All: 18.593+/-0.000 χ^2/NDF : 51123219452.7

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 1324518.2/16

Left Out: 0.031+/-0.000 χ^2/NDF : 475577.4/16

Right Out: 0.031+/-0.000 χ^2/NDF : 1189734.1/18

Left In: 0.031+/-0.000 χ^2/NDF : 406661.2/15

Left: 0.031+/-0.000 χ^2/NDF : 882488.4/32

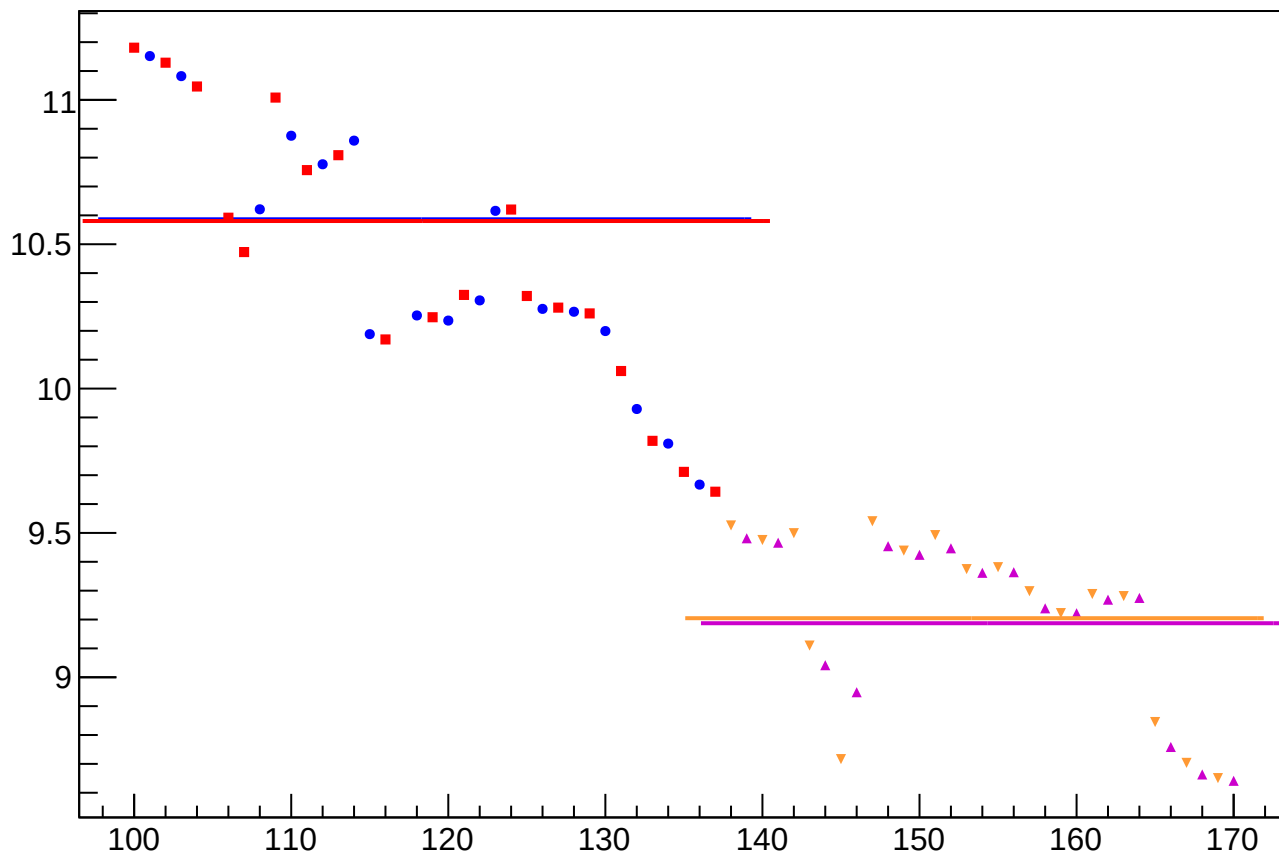
Right: 0.030+/-0.000 χ^2/NDF : 2514909.2/35

In: 0.031+/-0.000 χ^2/NDF : 1737923.6/32

Out: 0.031+/-0.000 χ^2/NDF : 1669726.7/35

All: 0.031+/-0.000 χ^2/NDF : 3408378.6/68

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.586+/-0.000 χ^2/NDF : 7420104563.4/16

Left Out: 9.205+/-0.000 χ^2/NDF : 2708613144.1/16

Right Out: 10.580+/-0.000 χ^2/NDF : 5763852721.2/18

Left In: 9.187+/-0.000 χ^2/NDF : 2313228463.6/15

Left: 9.196+/-0.000 χ^2/NDF : 5026288241.2/32

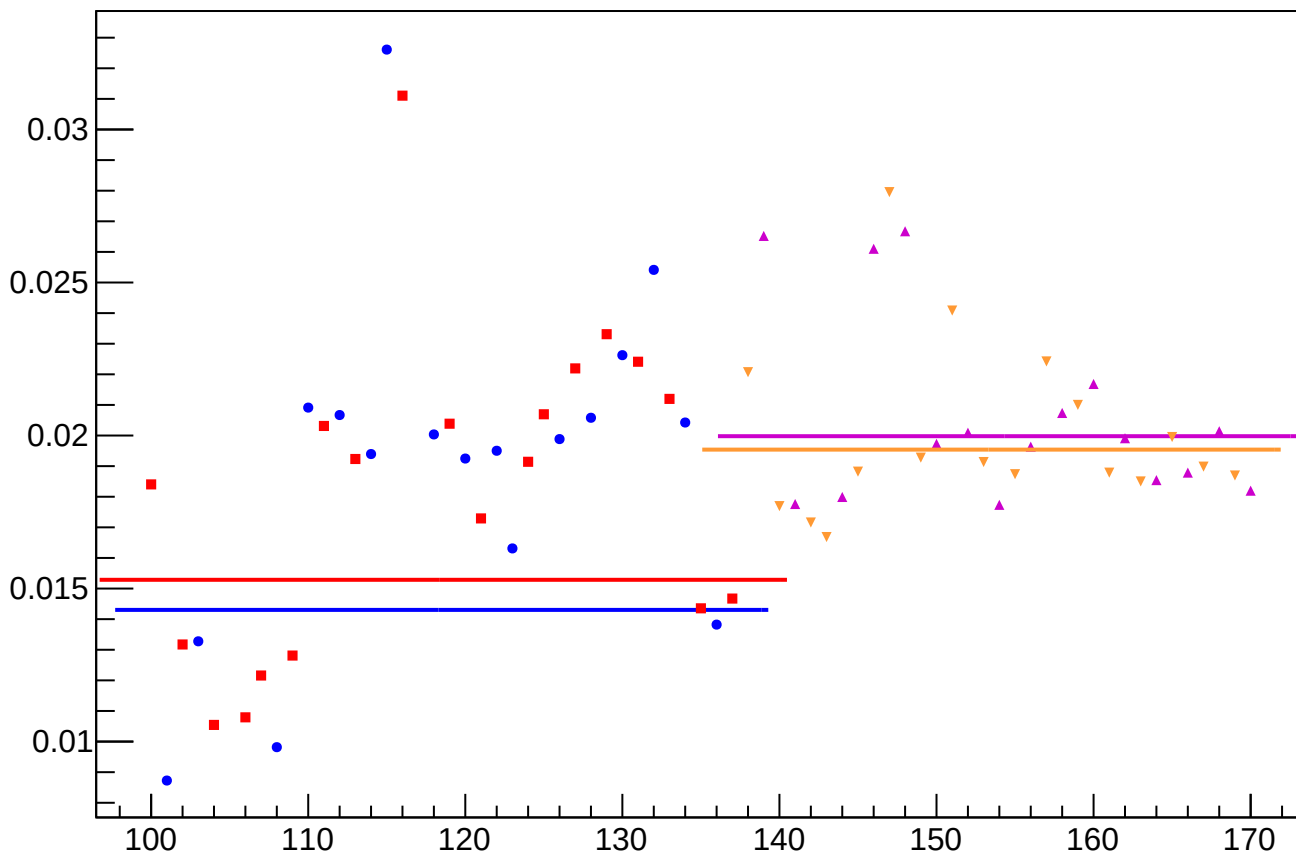
Right: 10.583+/-0.000 χ^2/NDF : 13184410027.5/35

In: 9.856+/-0.000 χ^2/NDF : 36353973170.3/32

Out: 9.831+/-0.000 χ^2/NDF : 34510458764.5/35

All: 9.843+/-0.000 χ^2/NDF : 70880567490.1/68

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1408012.0/16

Left Out: 0.020 $\pm$ 0.000 χ^2 /NDF:319123.7/16

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 989017.0/18

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF:366778.5/15

Left: 0.020 $\pm$ 0.000 χ^2 /NDF: 691538.7/32

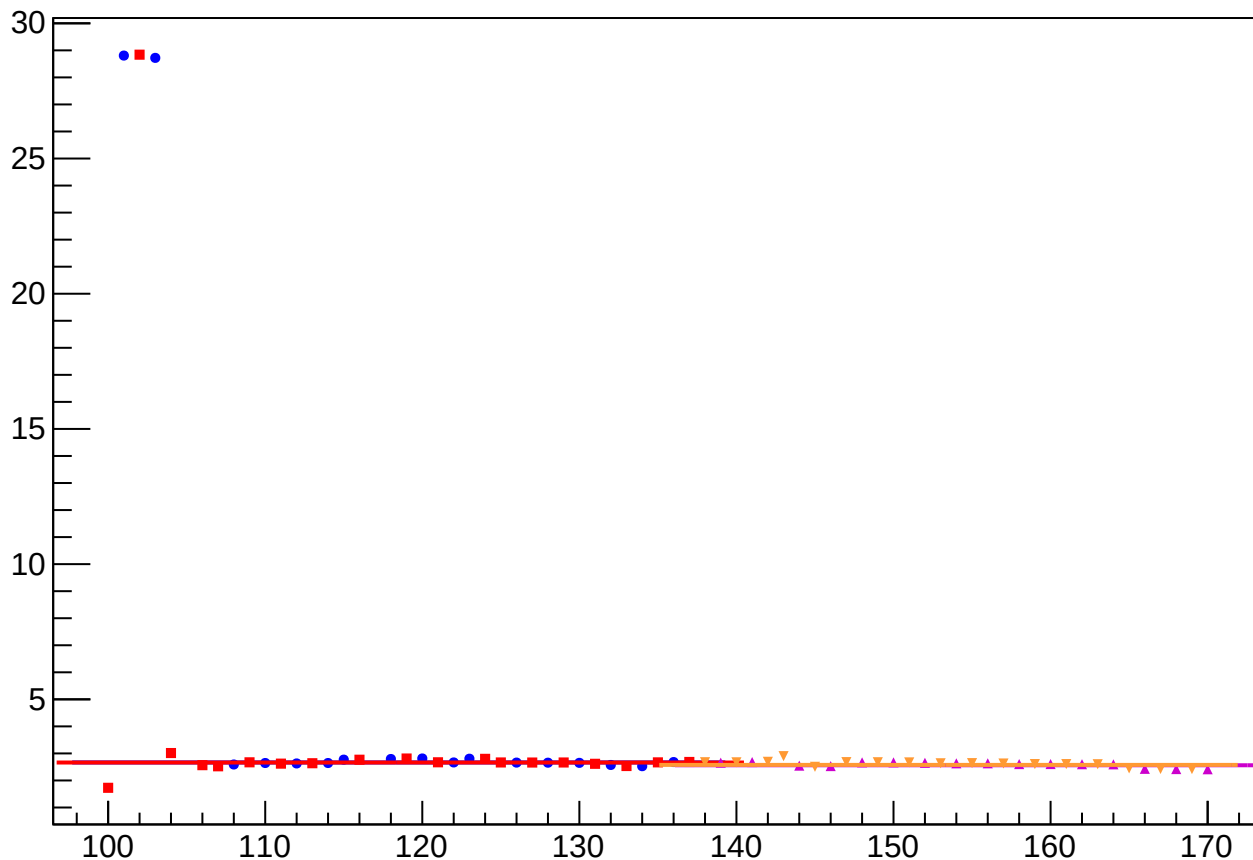
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 2421831.8/35

In: 0.017 $\pm$ 0.000 χ^2 /NDF:2650931.9/32

Out: 0.018 $\pm$ 0.000 χ^2 /NDF:1805983.2/35

All: 0.017 $\pm$ 0.000 χ^2 /NDF: 4463085.3/68

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.666+/-0.000 χ^2/NDF : 163167327359.4/16

Left Out: 2.576+/-0.000 χ^2/NDF : 30519070806.8/16

Right Out: 2.664+/-0.000 χ^2/NDF : 70398125461.7/18

Left In: 2.562+/-0.000 χ^2/NDF : 20921808297.4/15

Left: 2.569+/-0.000 χ^2/NDF : 51646167690.0/32

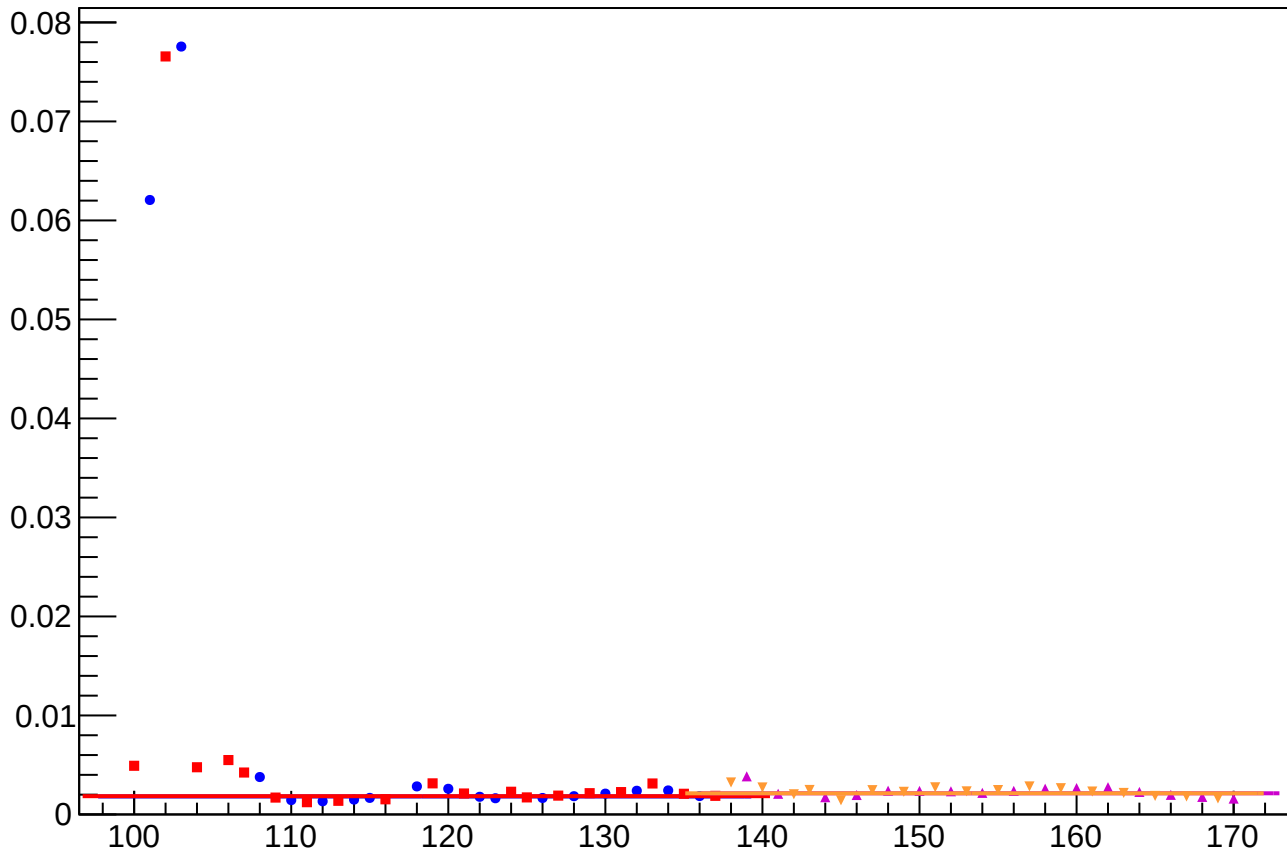
Right: 2.665+/-0.000 χ^2/NDF : 233569925265.6/35

In: 2.602+/-0.000 χ^2/NDF : 193133044252.5/32

Out: 2.610+/-0.000 χ^2/NDF : 107593835266.3/35

All: 2.606+/-0.000 χ^2/NDF : 300851372499.3

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2661372.0/16

Left Out: 0.002+/-0.000 χ^2/NDF : 980289.7/16

Right Out: 0.002+/-0.000 χ^2/NDF : 2331228.4/18

Left In: 0.002+/-0.000 χ^2/NDF : 799895.7/15

Left: 0.002+/-0.000 χ^2/NDF : 1780204.9/32

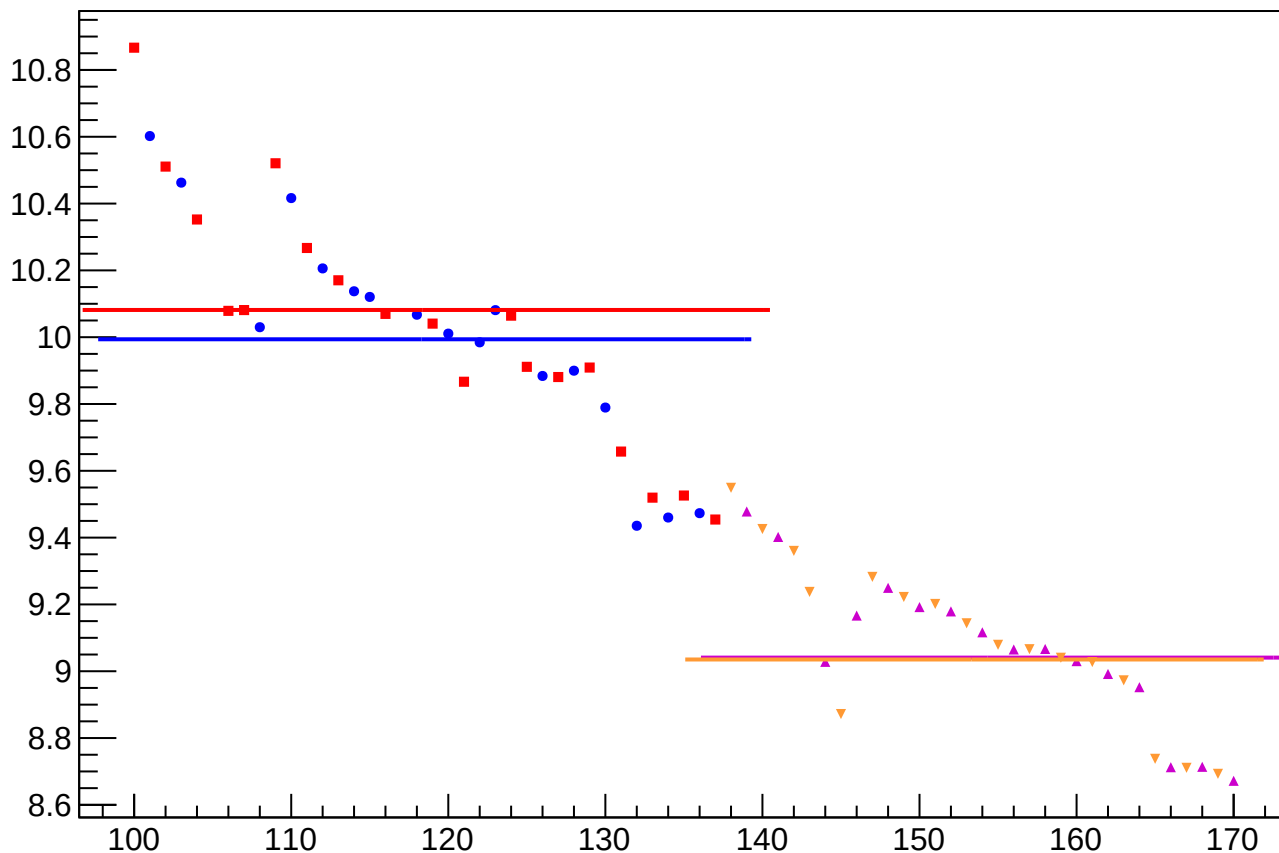
Right: 0.002+/-0.000 χ^2/NDF : 4993749.3/35

In: 0.002+/-0.000 χ^2/NDF : 3633582.1/32

Out: 0.002+/-0.000 χ^2/NDF : 3456223.0/35

All: 0.002+/-0.000 χ^2/NDF : 7089950.1/68

yield_sam8_mean vs Slug, Sign Corrected



Right In: 9.994+/-0.000 χ^2/NDF : 18815741664.6/16

Left Out: 9.035+/-0.000 χ^2/NDF : 13215484603.5/16

Right Out: 10.082+/-0.000 χ^2/NDF : 15502695798.7/18

Left In: 9.041+/-0.000 χ^2/NDF : 11688840502.8/15

Left: 9.038+/-0.000 χ^2/NDF : 24908499592.6/32

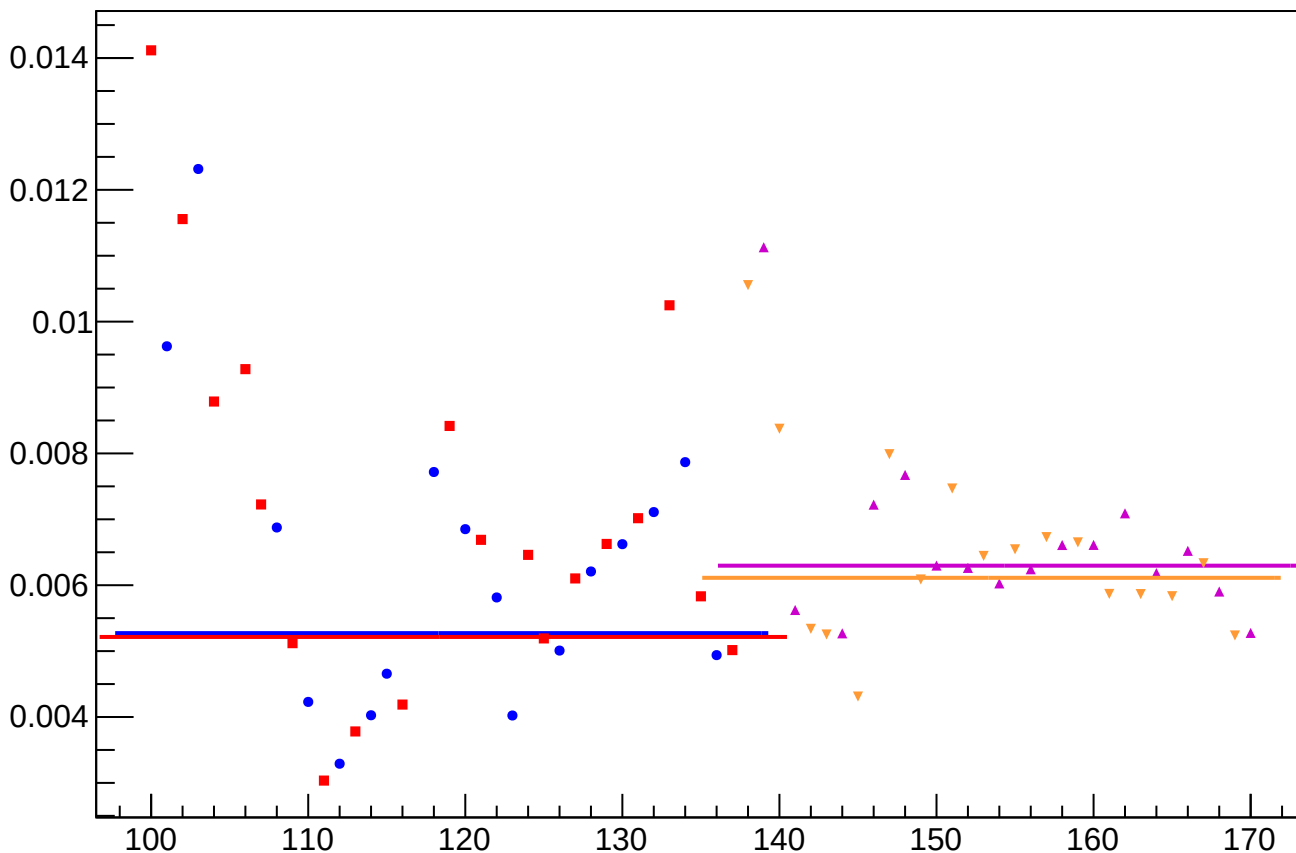
Right: 10.039+/-0.000 χ^2/NDF : 35036056098.5/35

In: 9.436+/-0.000 χ^2/NDF : 12654565572.7/32

Out: 9.469+/-0.000 χ^2/NDF : 151898841298.9/35

All: 9.453+/-0.000 χ^2/NDF : 278683180684.7

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1245563.1/16

Left Out: 0.006+/-0.000 χ^2/NDF : 725432.0/16

Right Out: 0.005+/-0.000 χ^2/NDF : 1657948.7/18

Left In: 0.006+/-0.000 χ^2/NDF : 470398.5/15

Left: 0.006+/-0.000 χ^2/NDF : 1204738.9/32

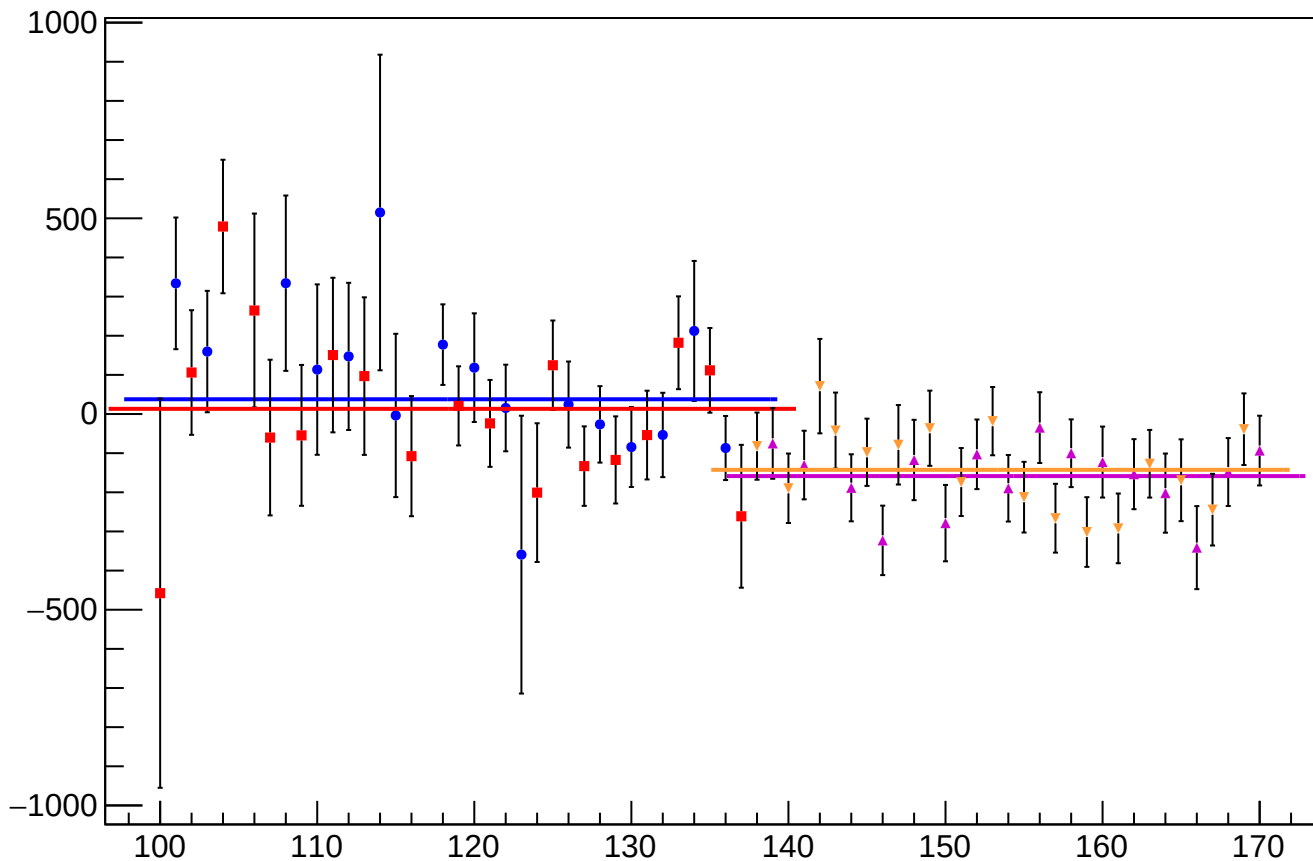
Right: 0.005+/-0.000 χ^2/NDF : 2904141.2/35

In: 0.006+/-0.000 χ^2/NDF : 1937535.2/32

Out: 0.006+/-0.000 χ^2/NDF : 2564635.2/35

All: 0.006+/-0.000 χ^2/NDF : 4509919.5/68

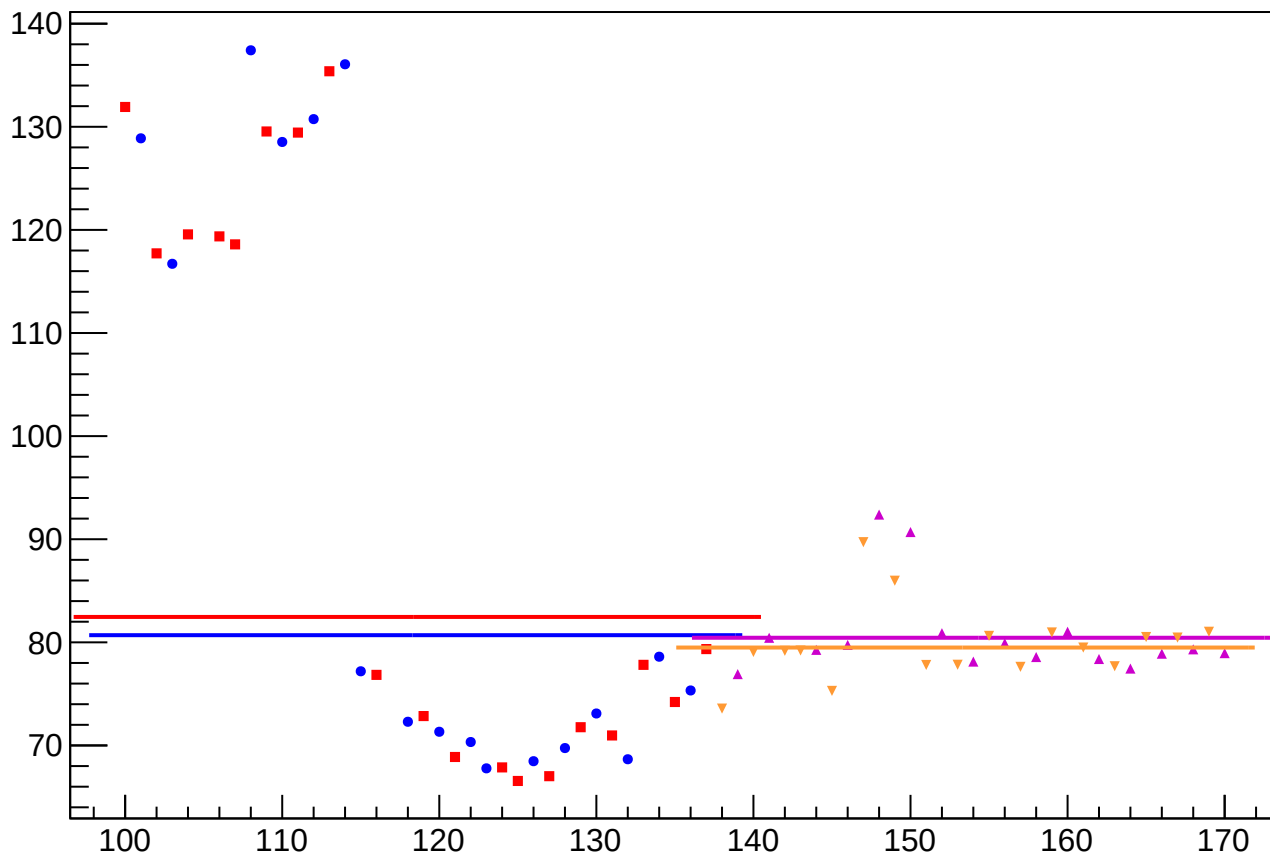
reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: 37.694 ± 32.253 $\chi^2/\text{NDF}: 16.7/16$
 Left Out: -142.566 ± 22.298 $\chi^2/\text{NDF}: 20.3/16$
 Right Out: 13.278 ± 32.066 $\chi^2/\text{NDF}: 22.7/18$
 Left In: -158.570 ± 22.769 $\chi^2/\text{NDF}: 12.9/15$

Left: -150.401 ± 15.931 $\chi^2/\text{NDF}: 33.4/32$
 Right: 25.415 ± 22.740 $\chi^2/\text{NDF}: 39.7/35$
 In: -93.293 ± 18.601 $\chi^2/\text{NDF}: 54.3/32$
 Out: -91.770 ± 18.307 $\chi^2/\text{NDF}: 58.9/35$
 All: -92.519 ± 13.048 $\chi^2/\text{NDF}: 113.2/68$

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.694+/-0.023 χ^2/NDF : 814026.4/16

Left Out: 79.496+/-0.016 χ^2/NDF : 48874.6/16

Right Out: 82.464+/-0.023 χ^2/NDF : 914878.0/18

Left In: 80.444+/-0.016 χ^2/NDF : 59450.1/15

Left: 79.960+/-0.011 χ^2/NDF : 110094.8/32

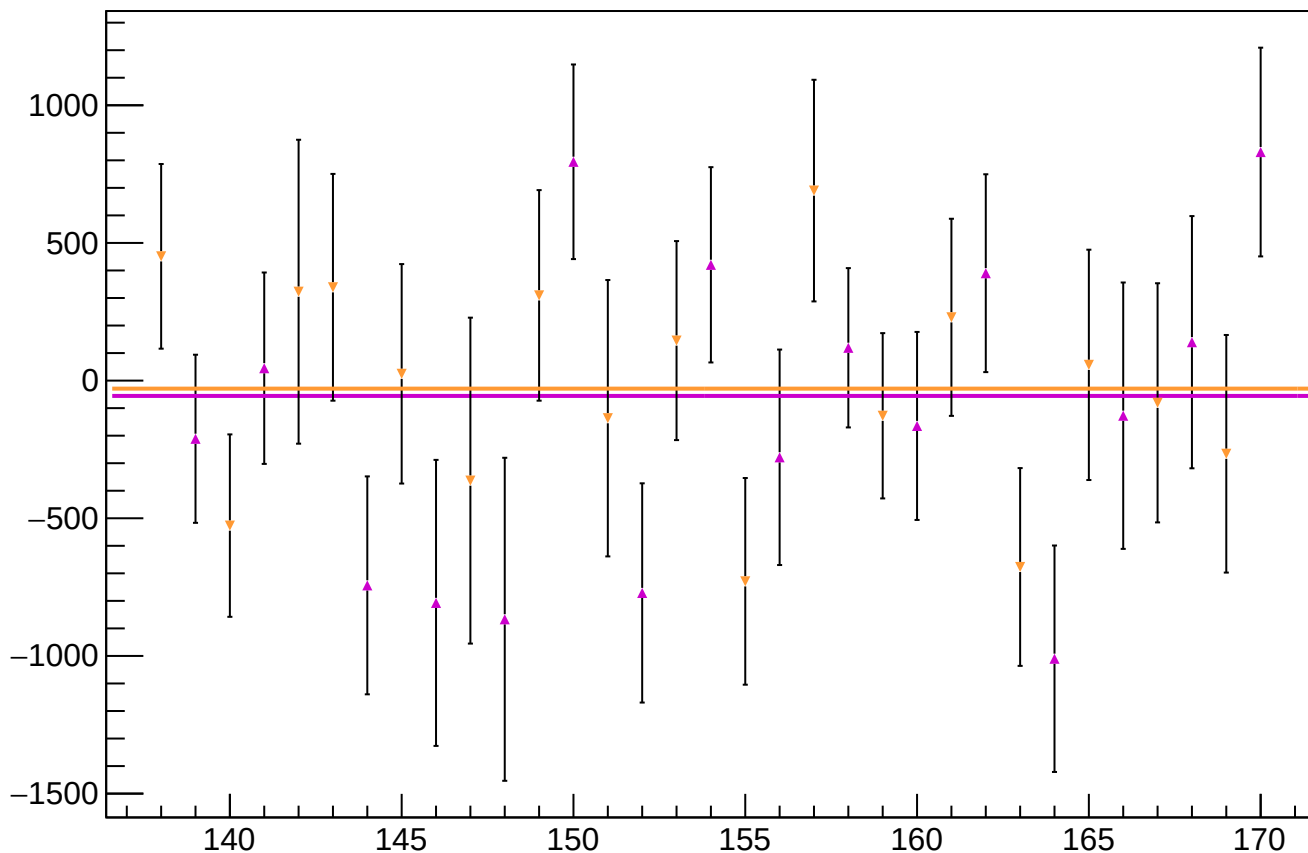
Right: 81.584+/-0.016 χ^2/NDF : 1731931.3/35

In: 80.527+/-0.013 χ^2/NDF : 873556.8/32

Out: 80.463+/-0.013 χ^2/NDF : 975299.6/35

All: 80.495+/-0.009 χ^2/NDF : 1848868.5/68

asym_sam1_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -29.141+/-94.867 χ^2/NDF :17.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -55.626+/-94.922 χ^2/NDF :31.6/15

Left: -42.376+/-67.101 χ^2/NDF : 49.4/32

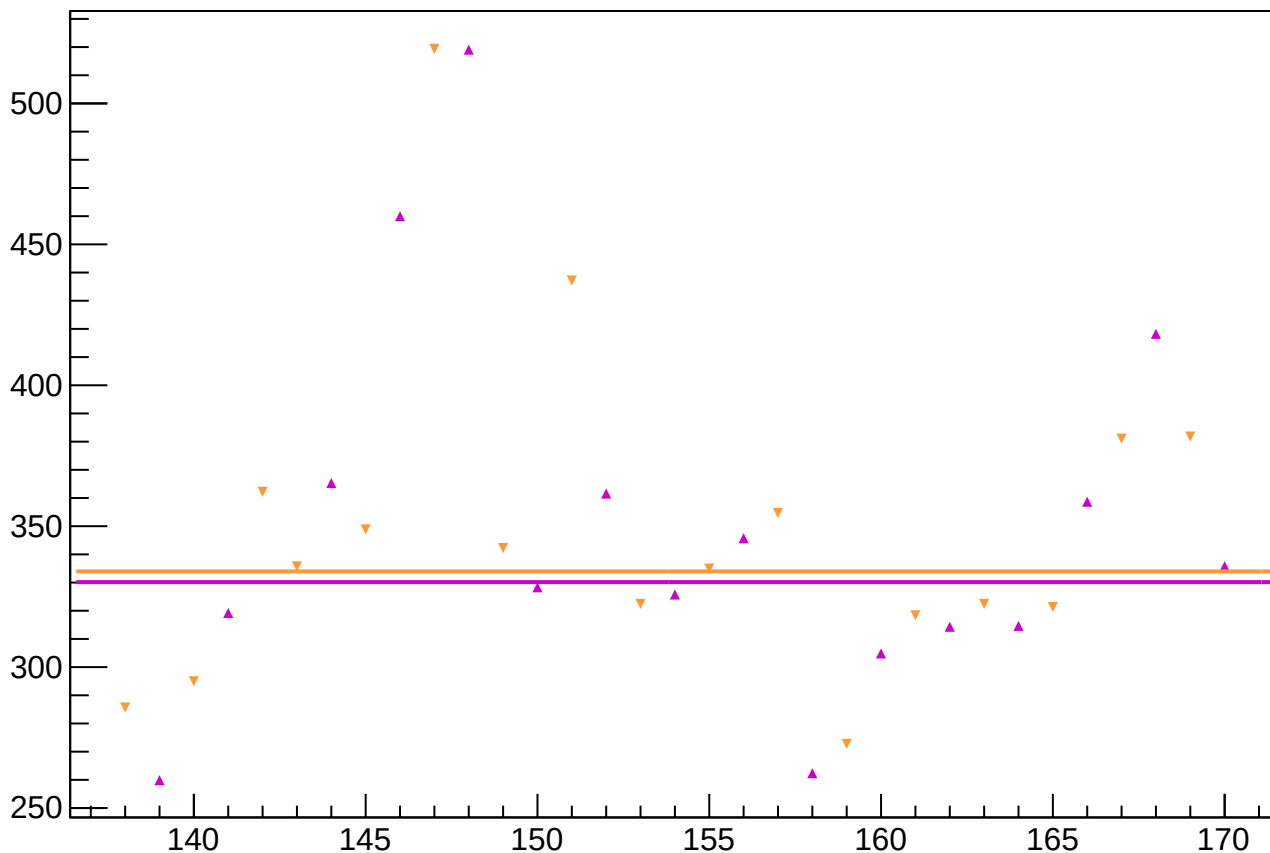
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -55.626+/-94.922 χ^2/NDF :31.6/15

Out: -29.141+/-94.867 χ^2/NDF :17.8/16

All: -42.376+/-67.101 χ^2/NDF : 49.4/32

asym_sam1_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Left Out: 333.955+/-0.067 χ^2 /NDF:505326.9/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Left In: 330.162+/-0.067 χ^2 /NDF:681140.4/15

Left: 332.059+/-0.047 χ^2 /NDF: 1188064.9/32

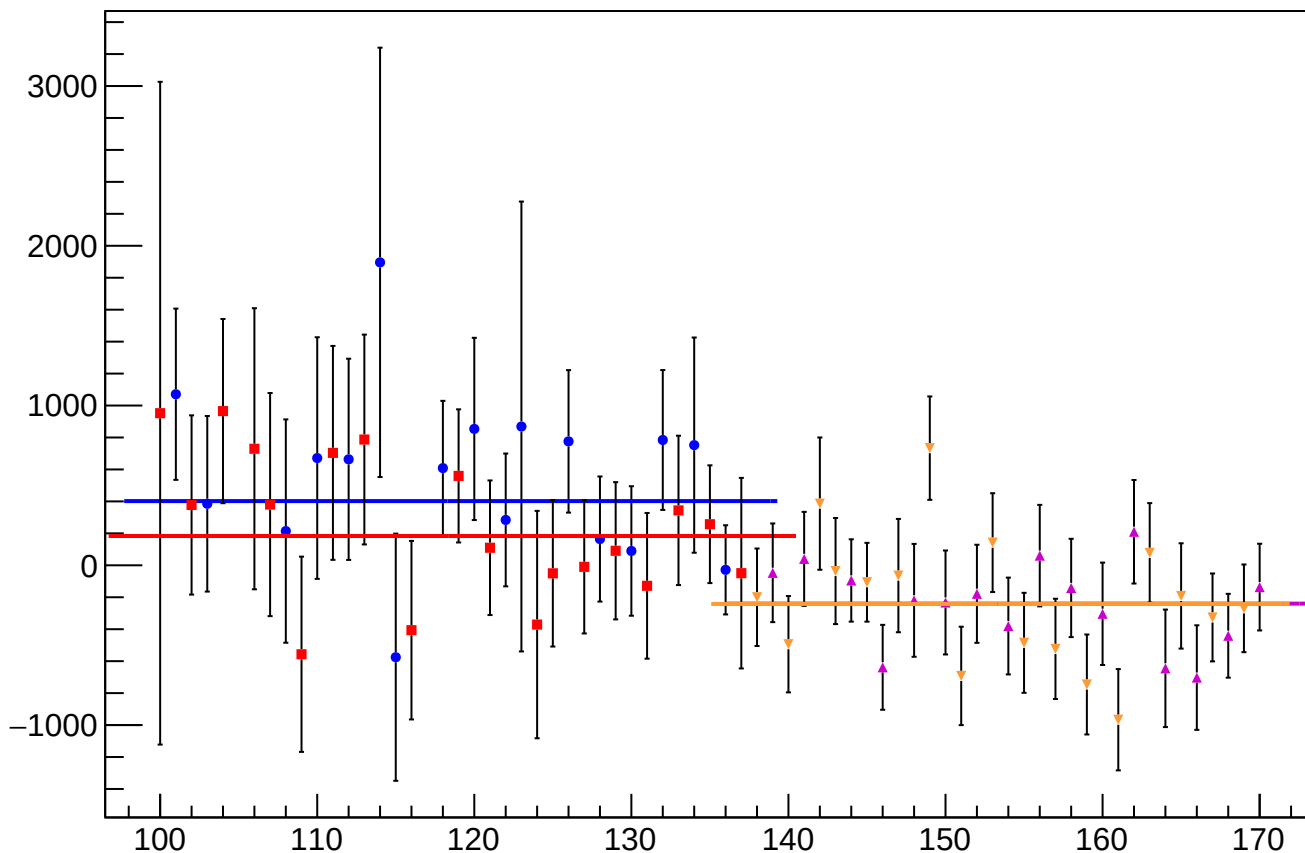
Right: 0.000+/-0.000 χ^2 /NDF: 0.0/0

In: 330.162+/-0.067 χ^2 /NDF:681140.4/15

Out: 333.955+/-0.067 χ^2 /NDF:505326.9/16

All: 332.059+/-0.047 χ^2 /NDF: 1188064.9/32

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 401.871 $\pm$ 121.048 χ^2 /NDF: 10.9/16

Left Out: -241.868 $\pm$ 74.927 χ^2 /NDF:27.1/16

Right Out: 183.481 $\pm$ 120.338 χ^2 /NDF: 9.3/18

Left In: -239.891 $\pm$ 75.638 χ^2 /NDF:11.0/15

Left: -240.888 $\pm$ 53.231 χ^2 /NDF: 38.2/32

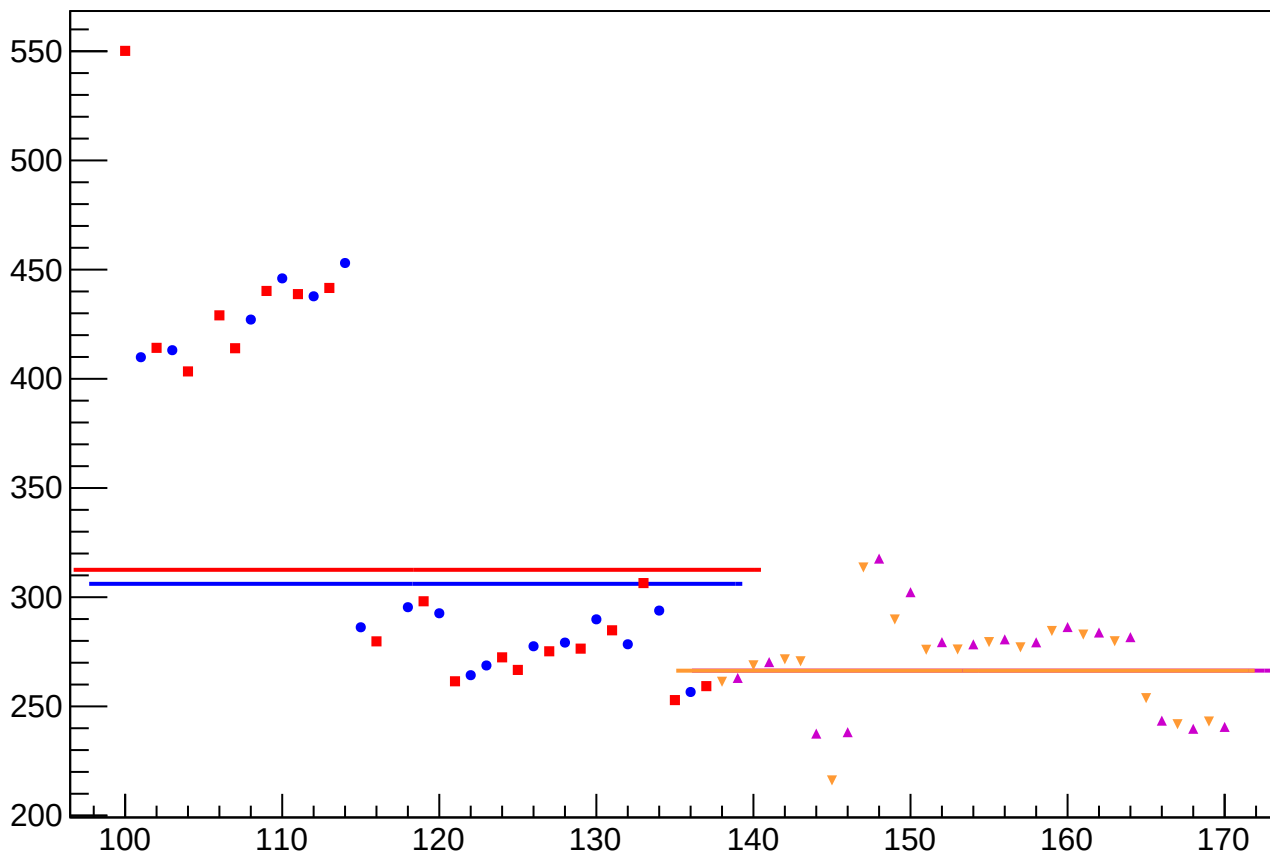
Right: 292.034 $\pm$ 85.342 χ^2 /NDF: 21.9/35

In: -59.678 $\pm$ 64.145 χ^2 /NDF:42.1/32

Out: -123.038 $\pm$ 63.605 χ^2 /NDF:45.5/35

All: -91.626 $\pm$ 45.165 χ^2 /NDF: 88.1/68

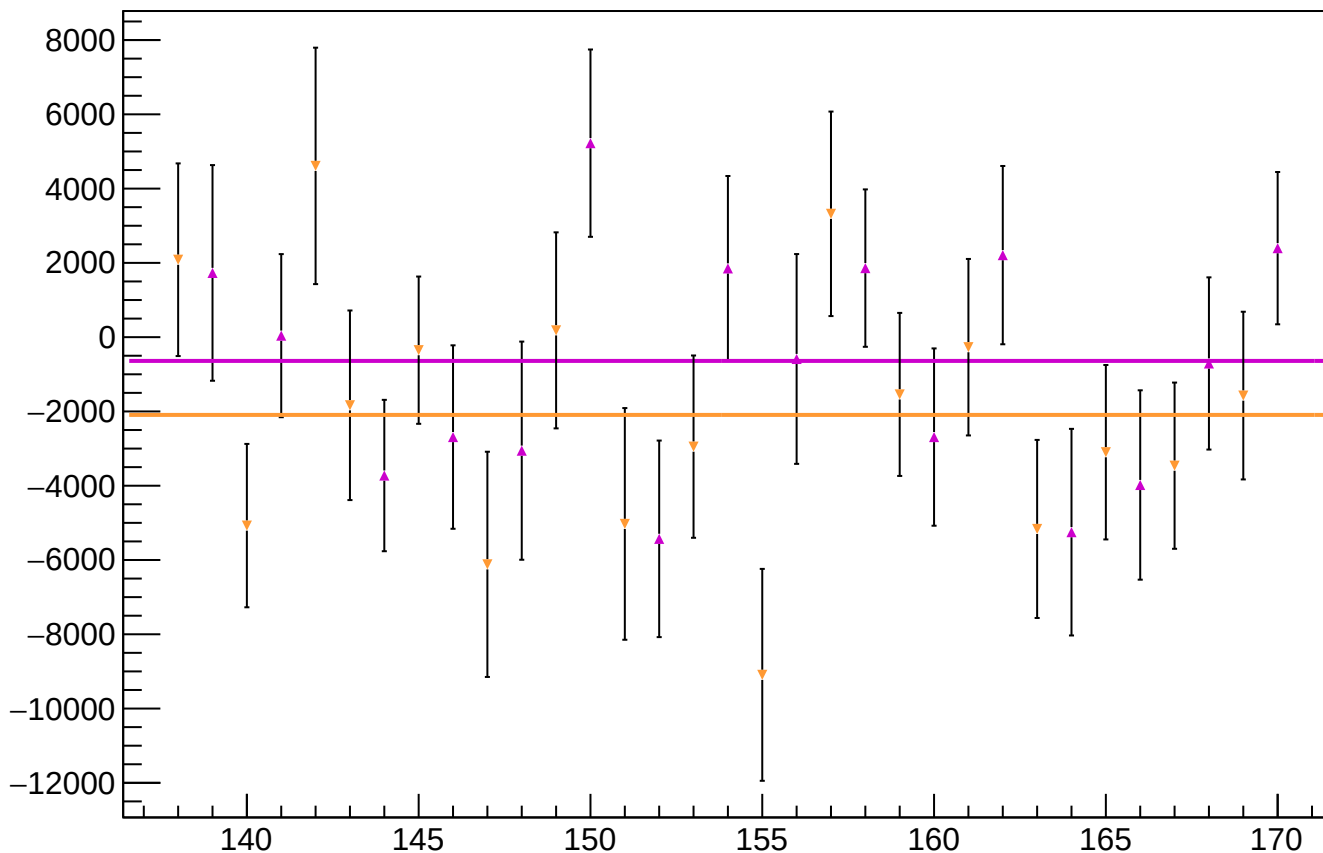
reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 306.123 ± 0.086 $\chi^2/\text{NDF}: 508435.8/16$
 Left Out: 266.359 ± 0.053 $\chi^2/\text{NDF}: 189172.8/16$
 Right Out: 312.543 ± 0.085 $\chi^2/\text{NDF}: 625769.8/18$
 Left In: 266.378 ± 0.053 $\chi^2/\text{NDF}: 194520.4/15$

Left: 266.369 ± 0.038 $\chi^2/\text{NDF}: 383693.3/32$
 Right: 309.352 ± 0.060 $\chi^2/\text{NDF}: 1137034.2/35$
 In: 277.539 ± 0.045 $\chi^2/\text{NDF}: 858026.1/32$
 Out: 279.261 ± 0.045 $\chi^2/\text{NDF}: 1027224.0/35$
 All: 278.408 ± 0.032 $\chi^2/\text{NDF}: 1885976.9/68$

asym_sam2_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -2093.406+/-600.443 χ^2/NDF :26.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -639.573+/-607.195 χ^2/NDF :24.3/15

Left: -1374.617+/-426.945 χ^2/NDF : 53.2/32

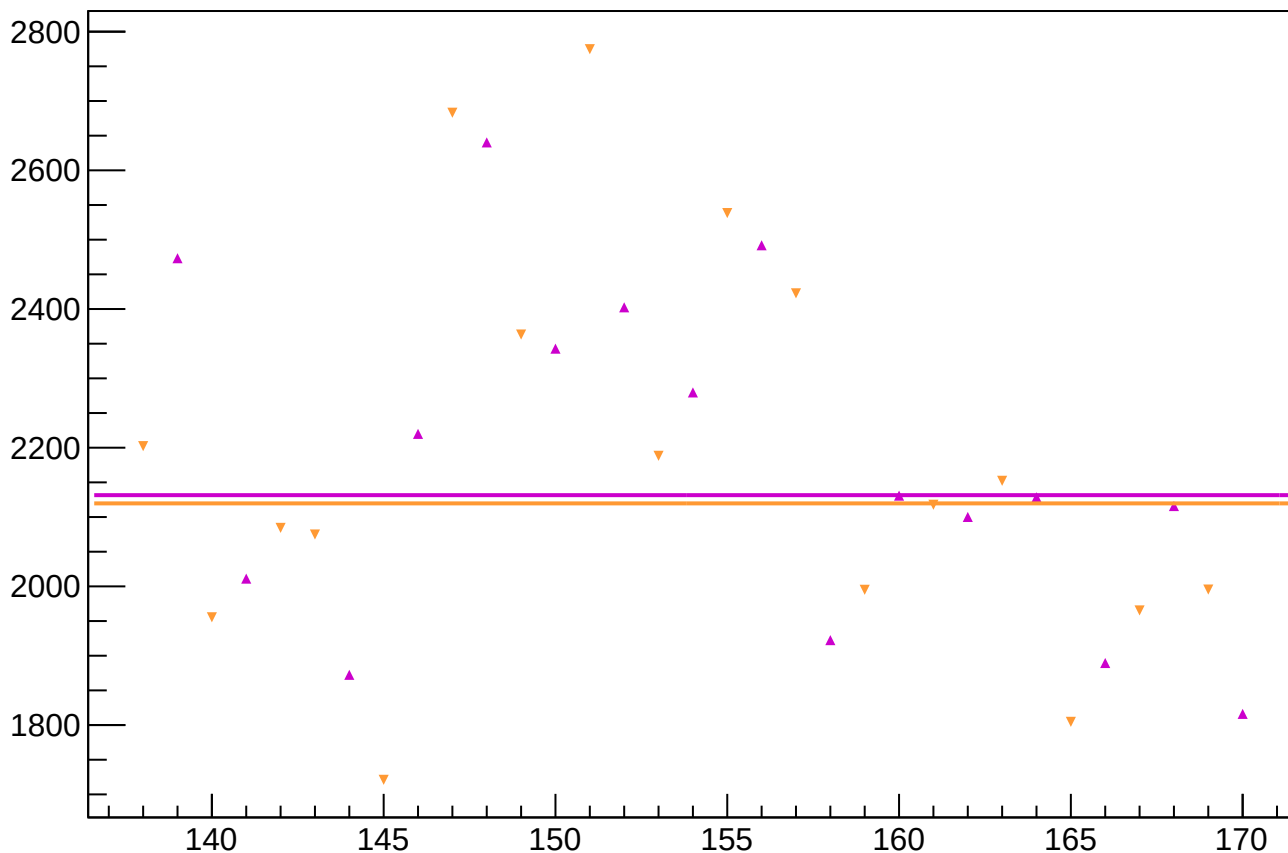
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -639.573+/-607.195 χ^2/NDF :24.3/15

Out: -2093.406+/-600.443 χ^2/NDF :26.0/16

All: -1374.617+/-426.945 χ^2/NDF : 53.2/32

asym_sam2_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 2119.681+/-0.425 χ^2/NDF :396404.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 2131.557+/-0.429 χ^2/NDF :288519.8/15

Left: 2125.553+/-0.302 χ^2/NDF : 685311.5/32

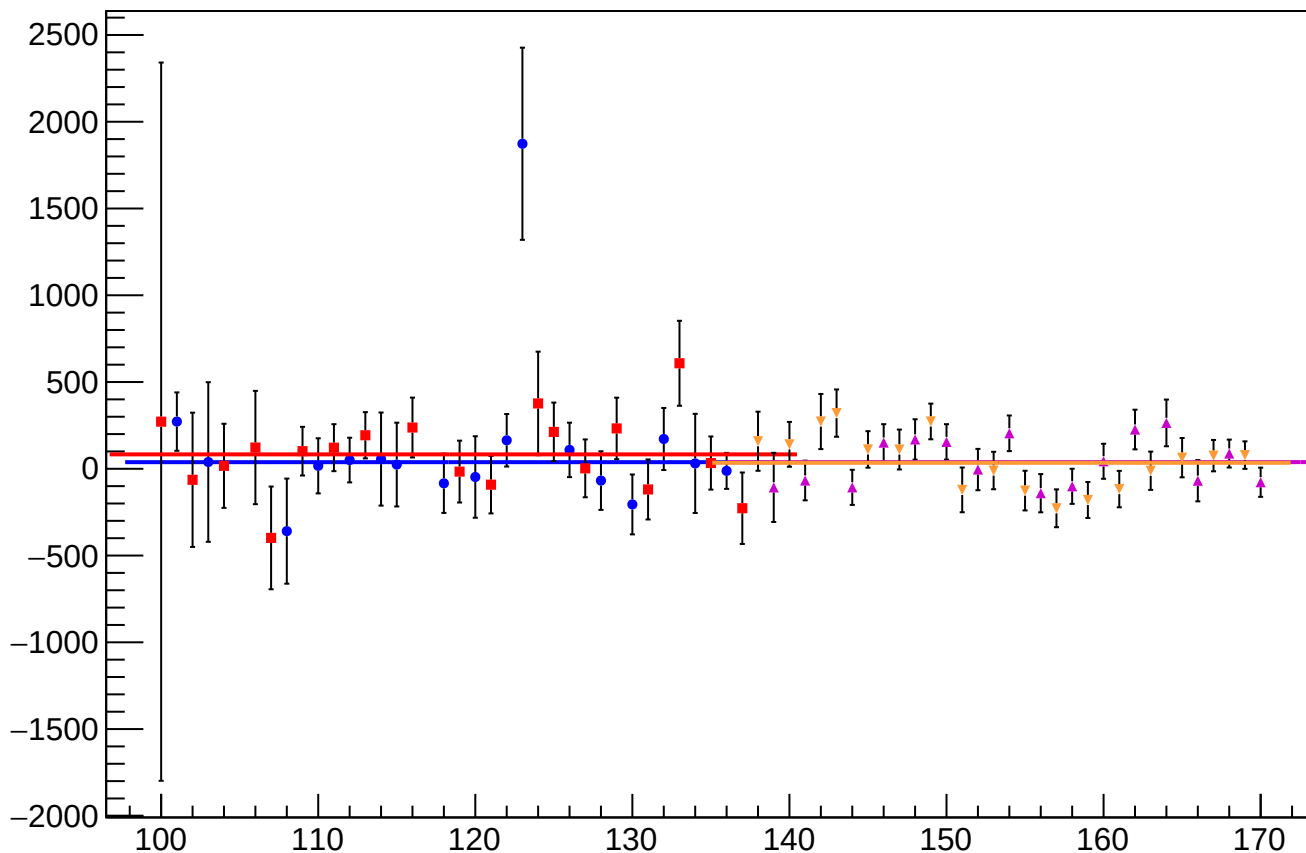
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 2131.557+/-0.429 χ^2/NDF :288519.8/15

Out: 2119.681+/-0.425 χ^2/NDF :396404.9/16

All: 2125.553+/-0.302 χ^2/NDF : 685311.5/32

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 38.126 $\pm$ 43.548 χ^2/NDF : 19.4/16

Left Out: 34.689 $\pm$ 26.917 χ^2/NDF :30.7/16

Right Out: 83.101 $\pm$ 43.098 χ^2/NDF : 16.7/18

Left In: 38.483 $\pm$ 26.725 χ^2/NDF :23.0/15

Left: 36.600 $\pm$ 18.965 χ^2/NDF : 53.8/32

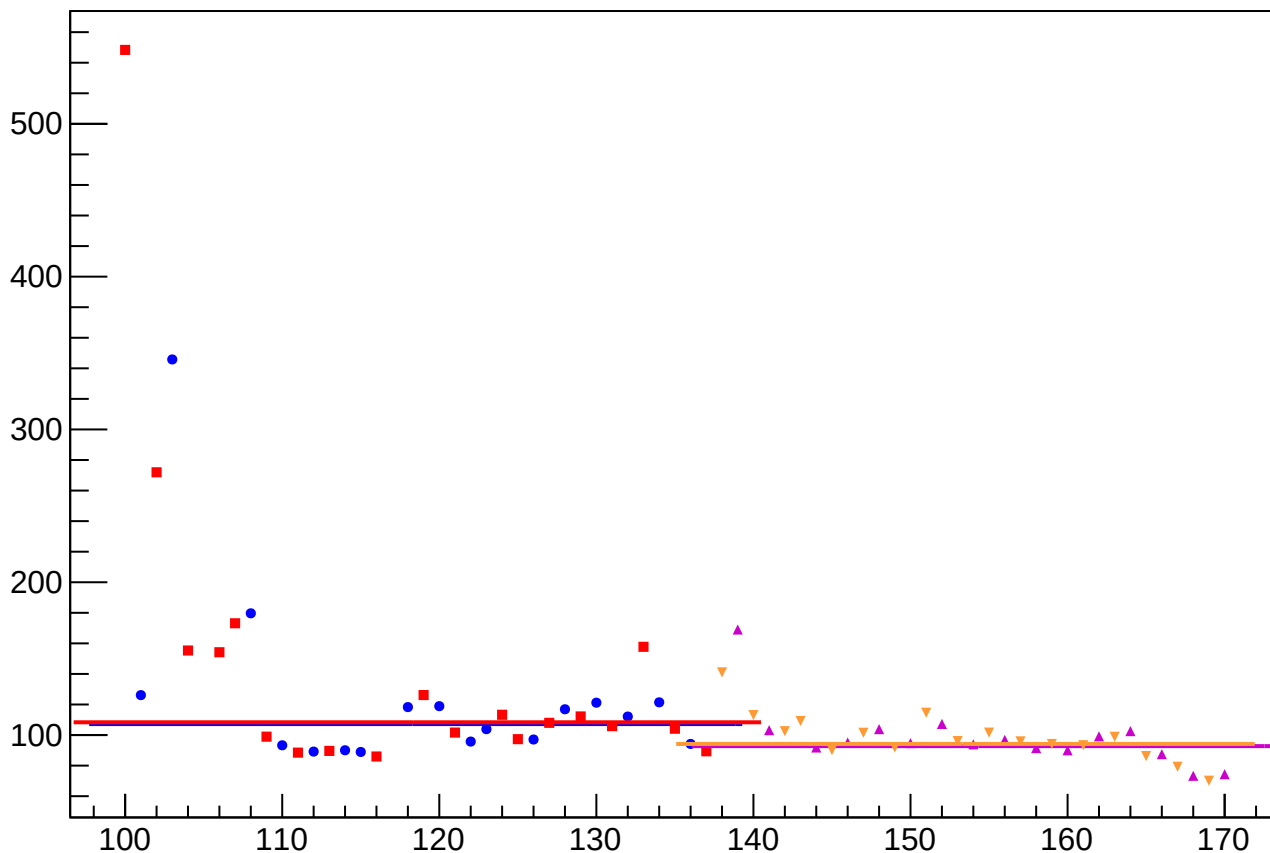
Right: 60.847 $\pm$ 30.633 χ^2/NDF : 36.7/35

In: 38.385 $\pm$ 22.778 χ^2/NDF :42.4/32

Out: 48.274 $\pm$ 22.830 χ^2/NDF :48.3/35

All: 43.318 $\pm$ 16.125 χ^2/NDF : 90.9/68

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 107.189 $\pm$ 0.031 χ^2 /NDF: 843115.1/16

Left Out: 94.176 $\pm$ 0.019 χ^2 /NDF: 548011.6/16

Right Out: 108.359 $\pm$ 0.030 χ^2 /NDF: 917287.7/18

Left In: 92.758 $\pm$ 0.019 χ^2 /NDF: 597641.3/15

Left: 93.462 $\pm$ 0.013 χ^2 /NDF: 1148445.1/32

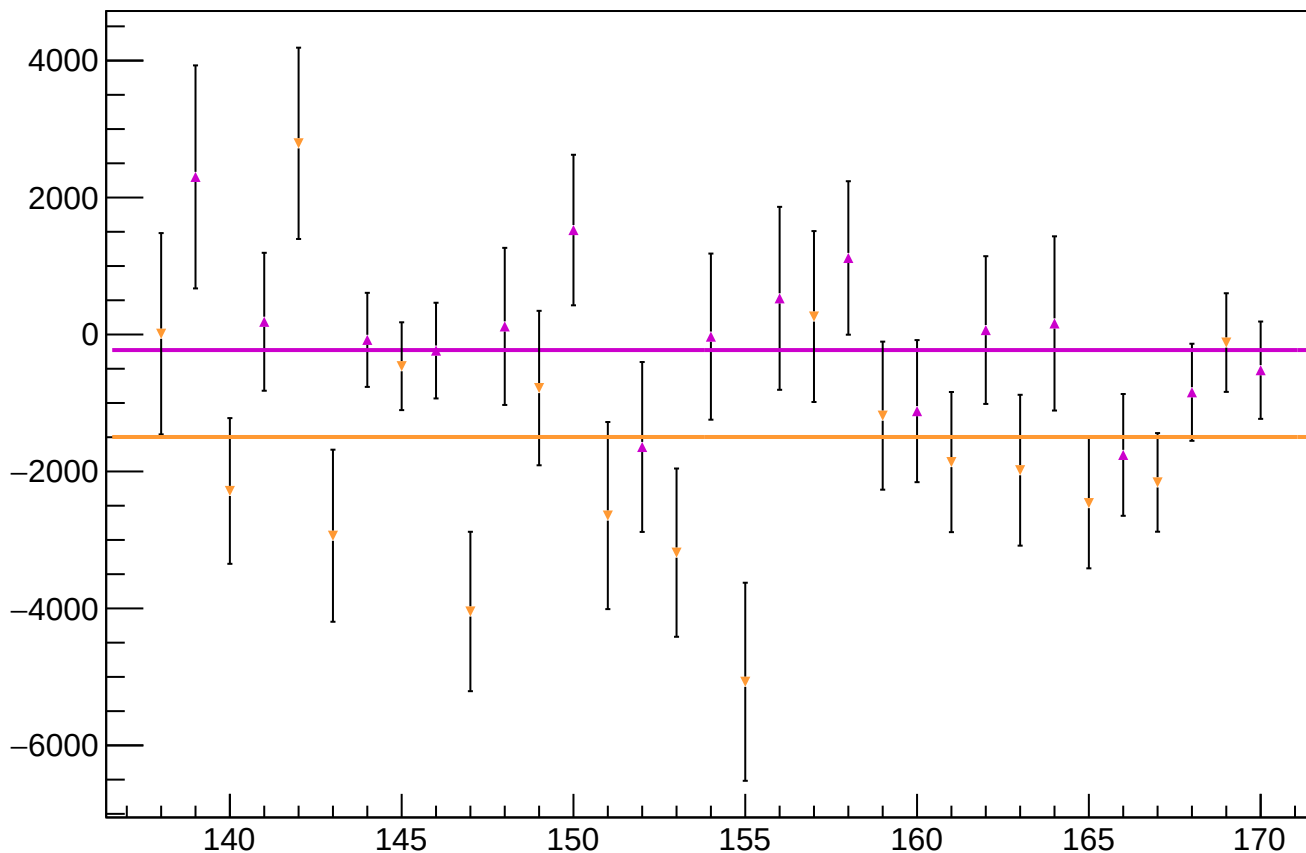
Right: 107.780 $\pm$ 0.022 χ^2 /NDF: 1761132.0/35

In: 96.706 $\pm$ 0.016 χ^2 /NDF: 1600287.0/32

Out: 98.156 $\pm$ 0.016 χ^2 /NDF: 1621121.0/35

All: 97.429 $\pm$ 0.011 χ^2 /NDF: 3225446.5/68

asym_sam3_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -1496.551+/-247.226 χ^2/NDF :36.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -227.259+/-239.409 χ^2/NDF :13.1/15

Left: -841.523+/-171.985 χ^2/NDF : 63.5/32

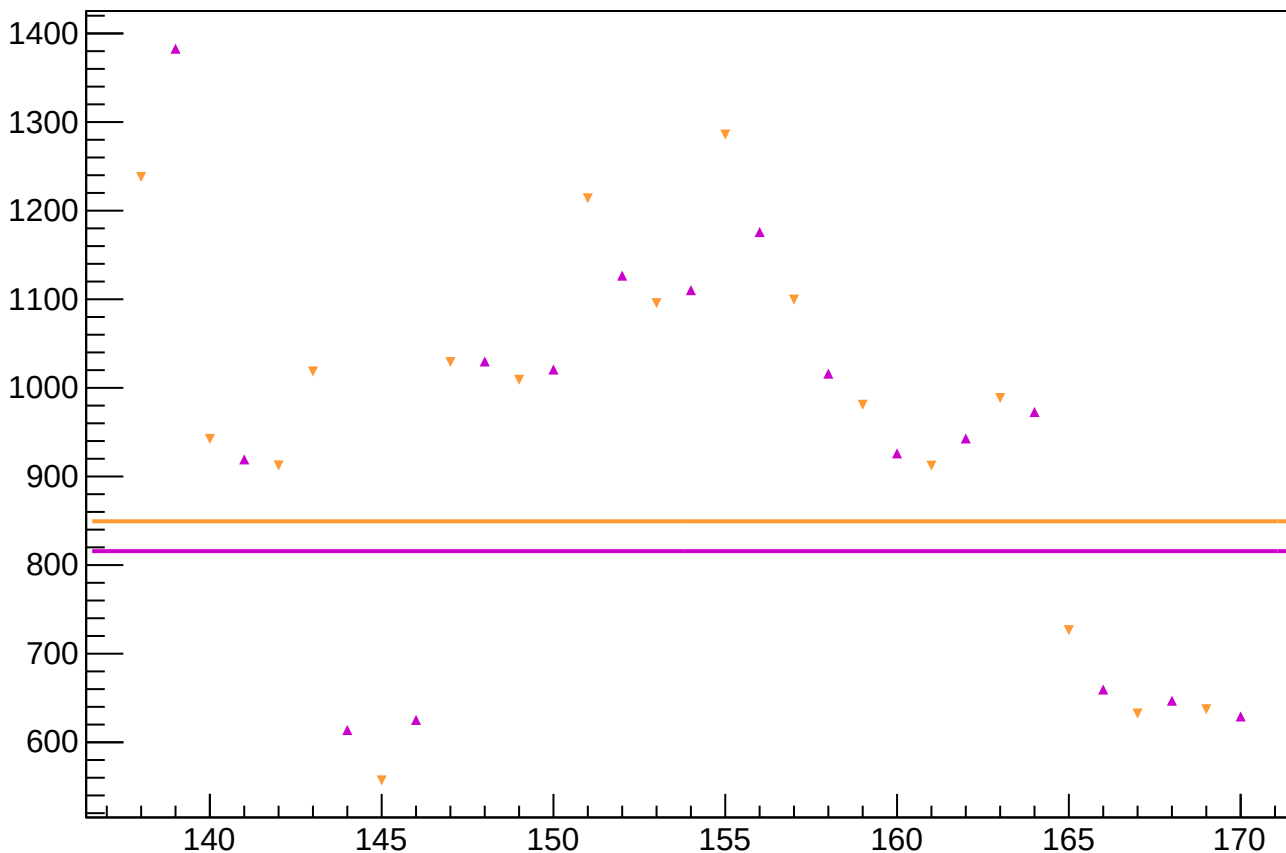
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -227.259+/-239.409 χ^2/NDF :13.1/15

Out: -1496.551+/-247.226 χ^2/NDF :36.8/16

All: -841.523+/-171.985 χ^2/NDF : 63.5/32

asym_sam3_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 849.426+/-0.175 χ^2/NDF :1641968.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 815.738+/-0.169 χ^2/NDF :1571127.5/15

Left: 832.041+/-0.122 χ^2/NDF : 3232260.1/32

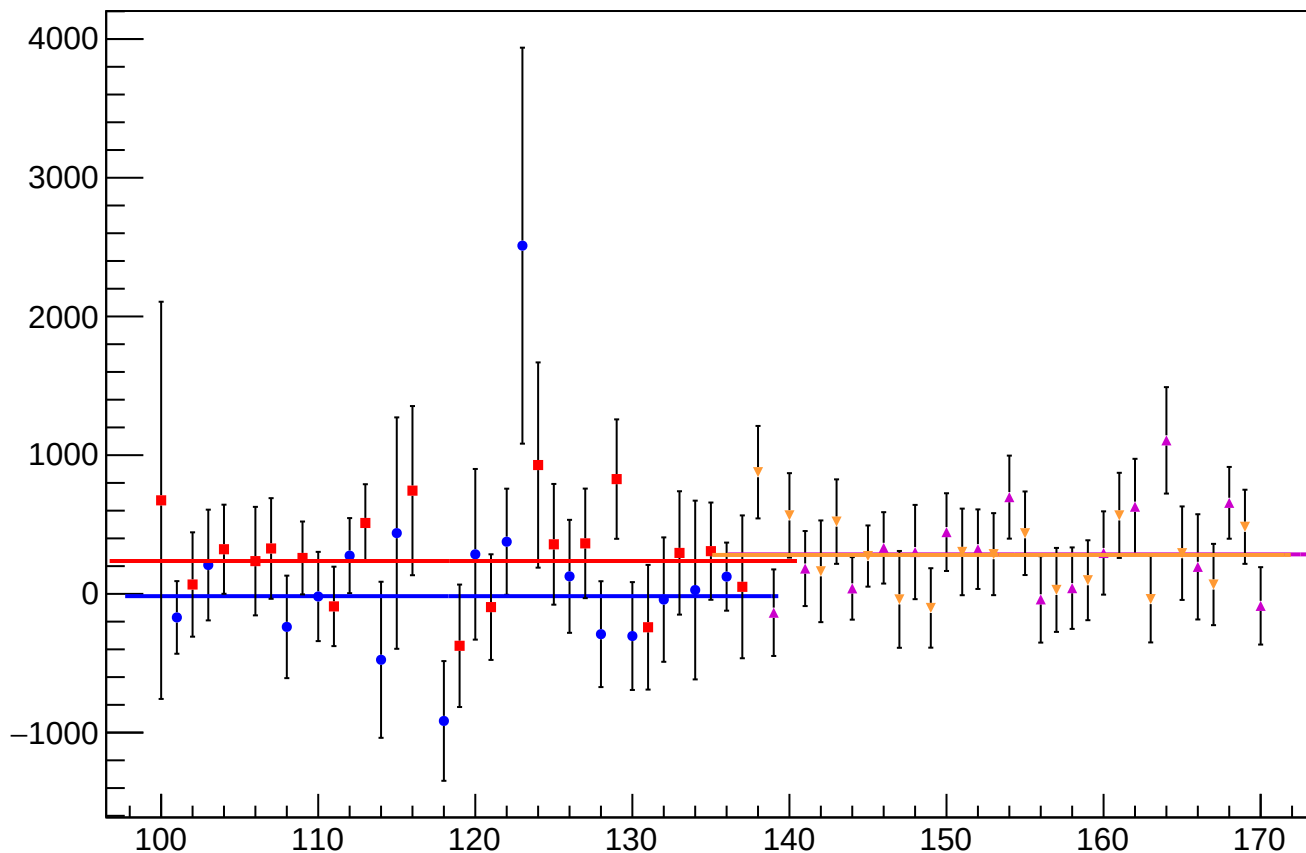
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 815.738+/-0.169 χ^2/NDF :1571127.5/15

Out: 849.426+/-0.175 χ^2/NDF :1641968.5/16

All: 832.041+/-0.122 χ^2/NDF : 3232260.1/32

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -16.459 ± 93.285 χ^2/NDF : 13.4/16

Left Out: 280.855 ± 72.553 χ^2/NDF : 11.8/16

Right Out: 236.984 ± 88.937 χ^2/NDF : 10.3/18

Left In: 284.773 ± 73.260 χ^2/NDF : 16.7/15

Left: 282.795 ± 51.551 χ^2/NDF : 28.5/32

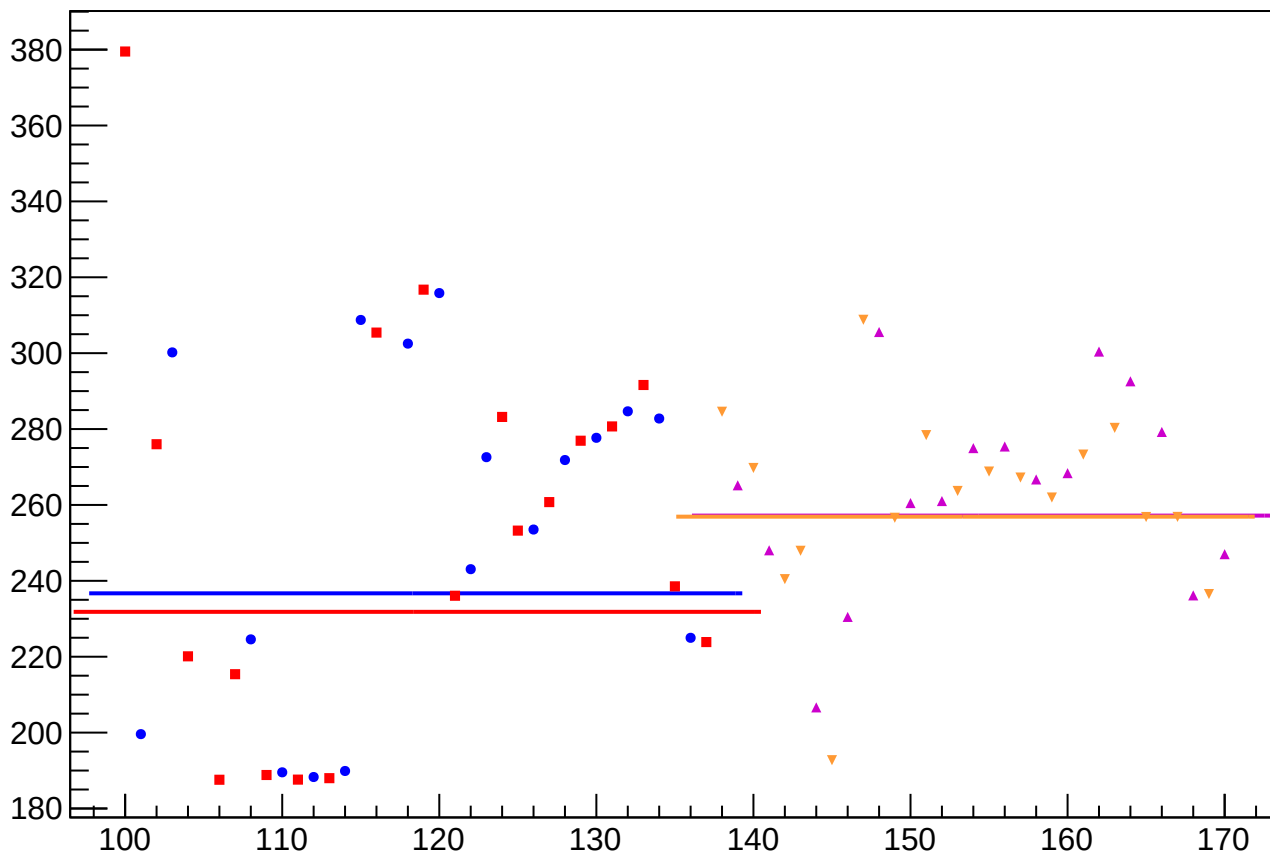
Right: 116.305 ± 64.370 χ^2/NDF : 27.6/35

In: 169.859 ± 57.616 χ^2/NDF : 36.6/32

Out: 263.325 ± 56.219 χ^2/NDF : 22.3/35

All: 217.739 ± 40.238 χ^2/NDF : 60.2/68

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 236.706 $\pm$ 0.066 χ^2 /NDF: 390344.9/16

Left Out: 256.912 $\pm$ 0.051 χ^2 /NDF: 281733.2/16

Right Out: 231.828 $\pm$ 0.063 χ^2 /NDF: 443276.3/18

Left In: 257.191 $\pm$ 0.052 χ^2 /NDF: 256603.9/15

Left: 257.050 $\pm$ 0.036 χ^2 /NDF: 538351.8/32

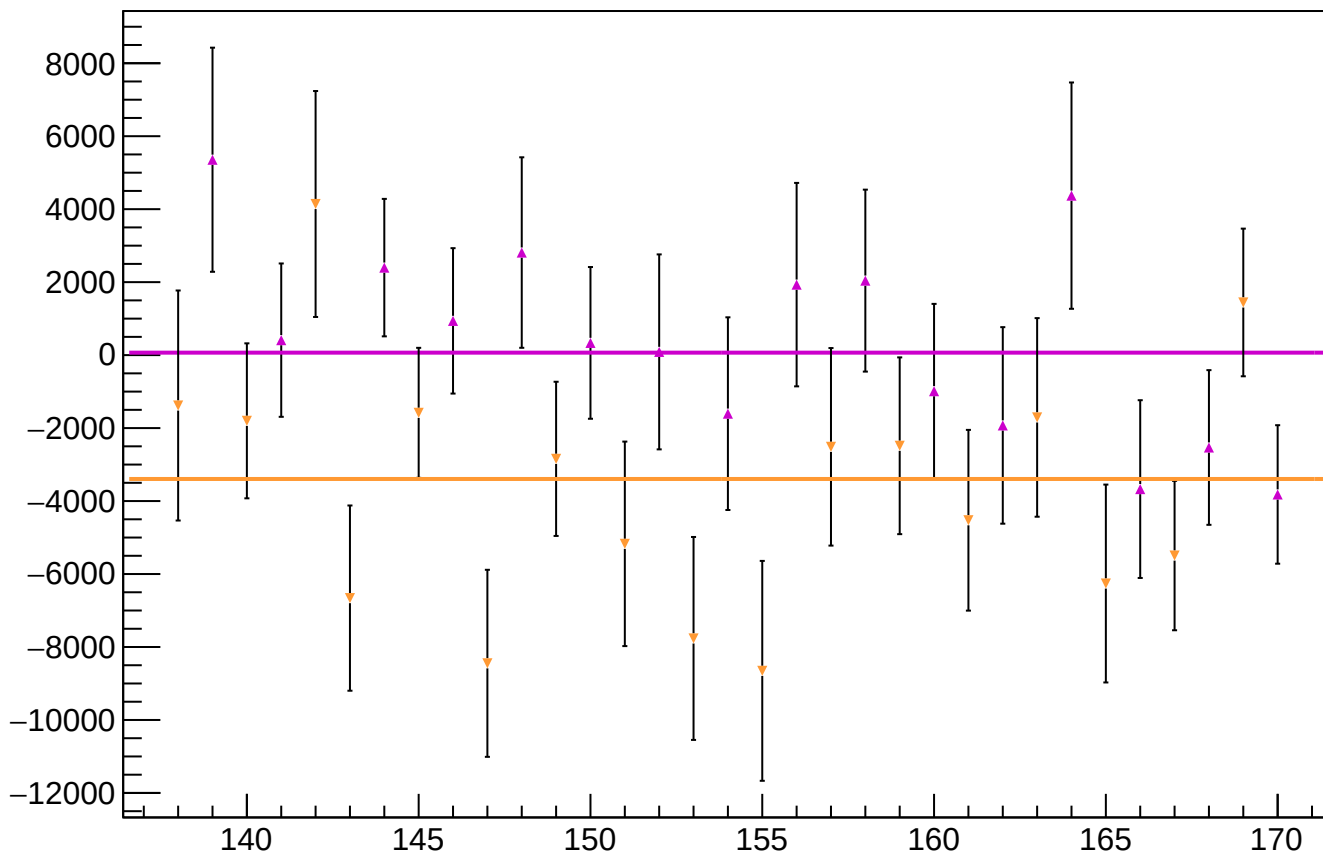
Right: 234.151 $\pm$ 0.046 χ^2 /NDF: 836486.0/35

In: 249.376 $\pm$ 0.041 χ^2 /NDF: 706599.3/32

Out: 246.889 $\pm$ 0.040 χ^2 /NDF: 820529.8/35

All: 248.102 $\pm$ 0.028 χ^2 /NDF: 1529038.5/68

asym_sam4_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -3394.712+/-590.971 χ^2/NDF : 28.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 67.404+/-587.003 χ^2/NDF : 18.0/15

Left: -1651.992+/-416.470 χ^2/NDF : 63.5/32

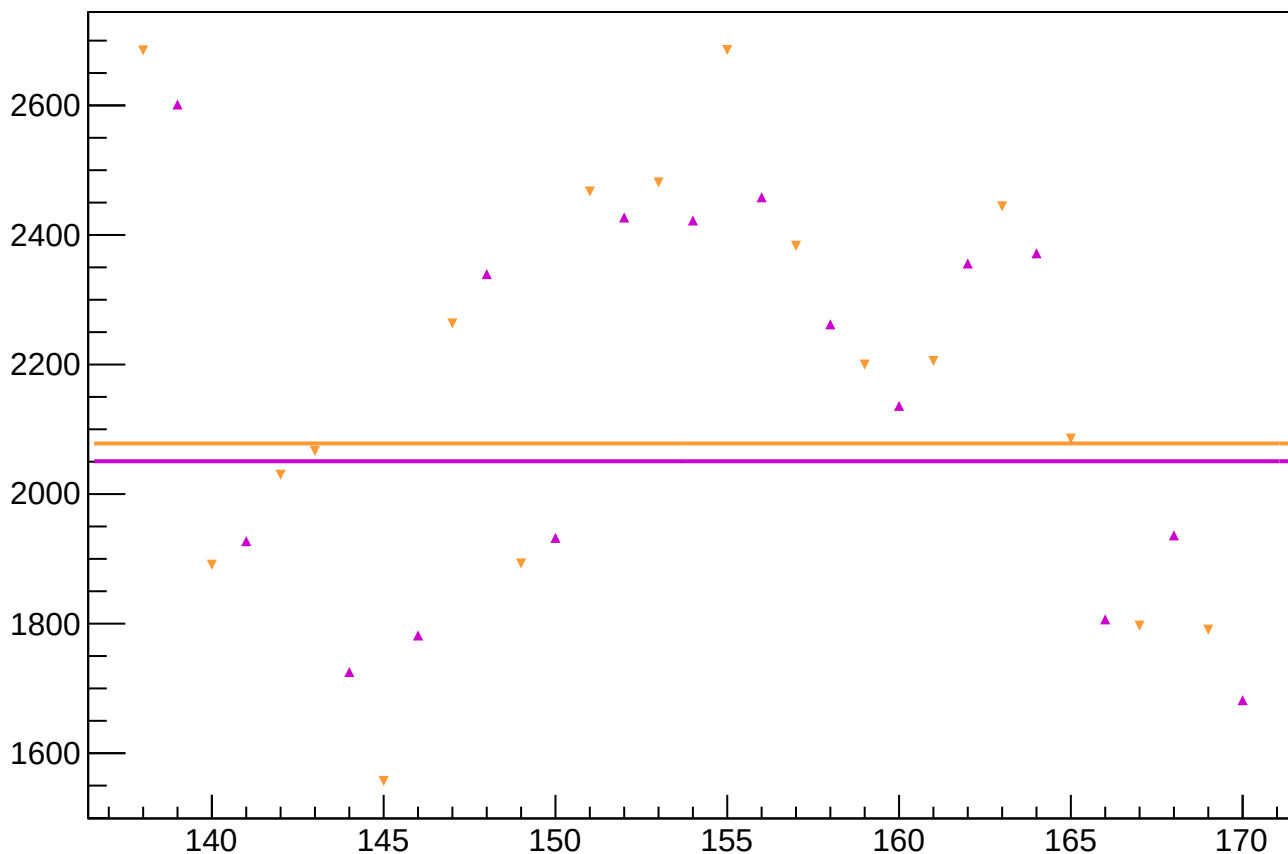
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 67.404+/-587.003 χ^2/NDF : 18.0/15

Out: -3394.712+/-590.971 χ^2/NDF : 28.2/16

All: -1651.992+/-416.470 χ^2/NDF : 63.5/32

asym_sam4_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 2078.161+/-0.418 χ^2/NDF : 598838.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 2050.707+/-0.415 χ^2/NDF : 485755.1/15

Left: 2064.341+/-0.294 χ^2/NDF : 1086766.0/32

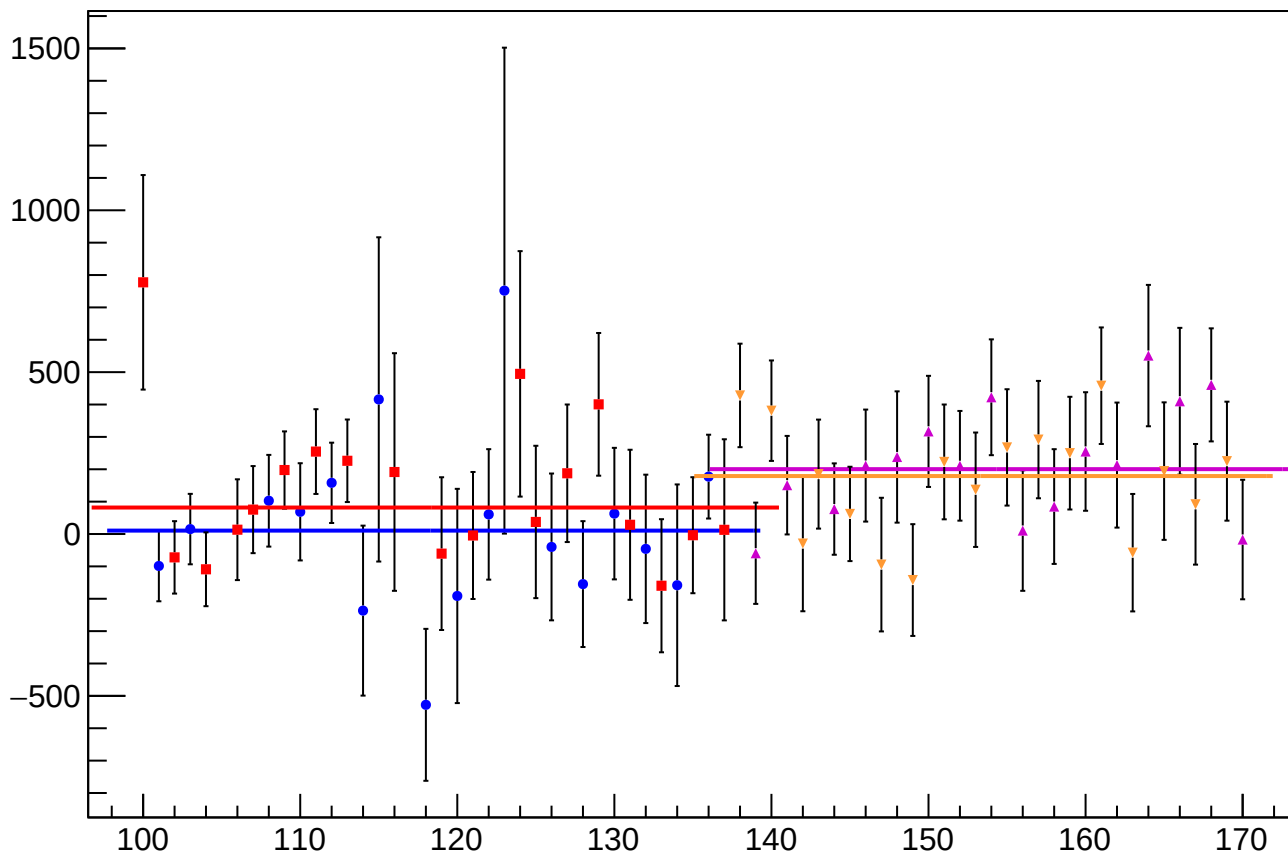
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 2050.707+/-0.415 χ^2/NDF : 485755.1/15

Out: 2078.161+/-0.418 χ^2/NDF : 598838.4/16

All: 2064.341+/-0.294 χ^2/NDF : 1086766.0/32

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 10.530+/-42.294 χ^2/NDF : 14.1/16

Left Out: 179.068+/-42.914 χ^2/NDF :16.3/16

Right Out: 81.802+/-38.985 χ^2/NDF : 19.2/18

Left In: 200.369+/-44.197 χ^2/NDF :14.3/15

Left: 189.404+/-30.788 χ^2/NDF : 30.7/32

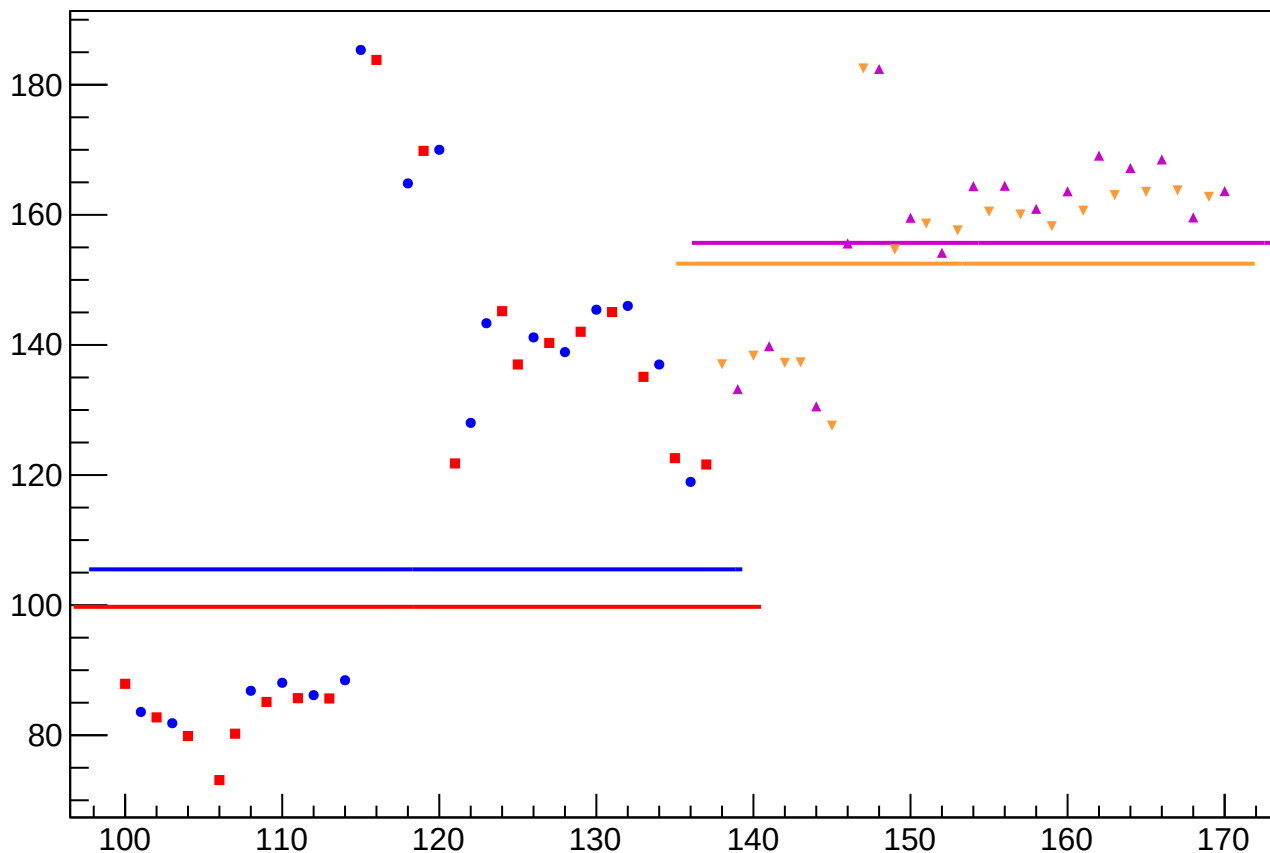
Right: 49.063+/-28.665 χ^2/NDF : 34.8/35

In: 101.275+/-30.557 χ^2/NDF :38.0/32

Out: 125.779+/-28.856 χ^2/NDF :38.3/35

All: 114.228+/-20.980 χ^2/NDF : 76.6/68

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 105.503+/-0.030 χ^2/NDF : 869022.6/16

Left Out: 152.495+/-0.030 χ^2/NDF : 206790.6/16

Right Out: 99.744+/-0.028 χ^2/NDF : 1000097.3/18

Left In: 155.697+/-0.031 χ^2/NDF : 203482.2/15

Left: 154.049+/-0.022 χ^2/NDF : 415675.8/32

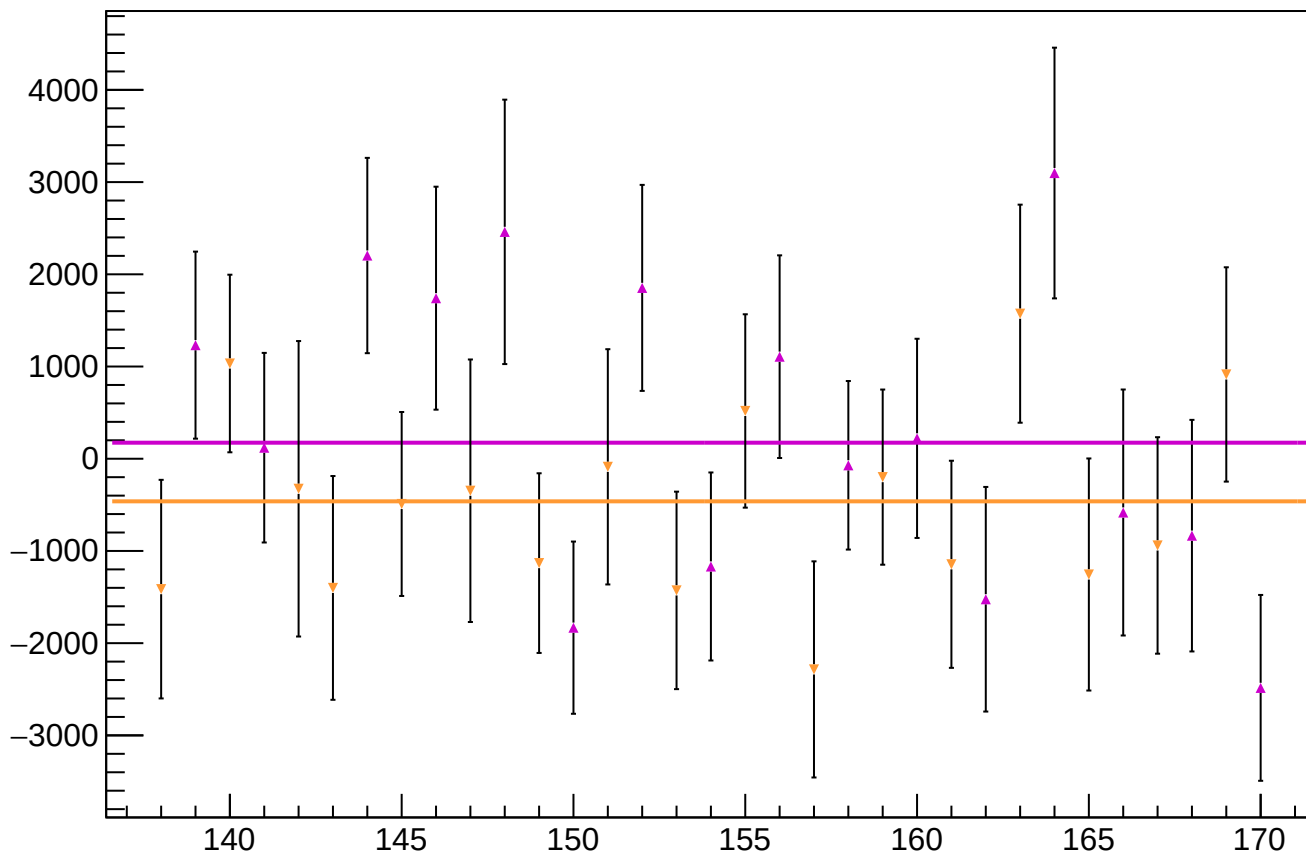
Right: 102.389+/-0.020 χ^2/NDF : 1889165.6/35

In: 129.496+/-0.022 χ^2/NDF : 2419016.0/32

Out: 123.595+/-0.020 χ^2/NDF : 2862526.4/35

All: 126.376+/-0.015 χ^2/NDF : 5320975.9/68

asym_sam5_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -461.986+/-274.718 χ^2/NDF :13.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 173.906+/-275.555 χ^2/NDF :32.9/15

Left: -145.008+/-194.550 χ^2/NDF : 49.3/32

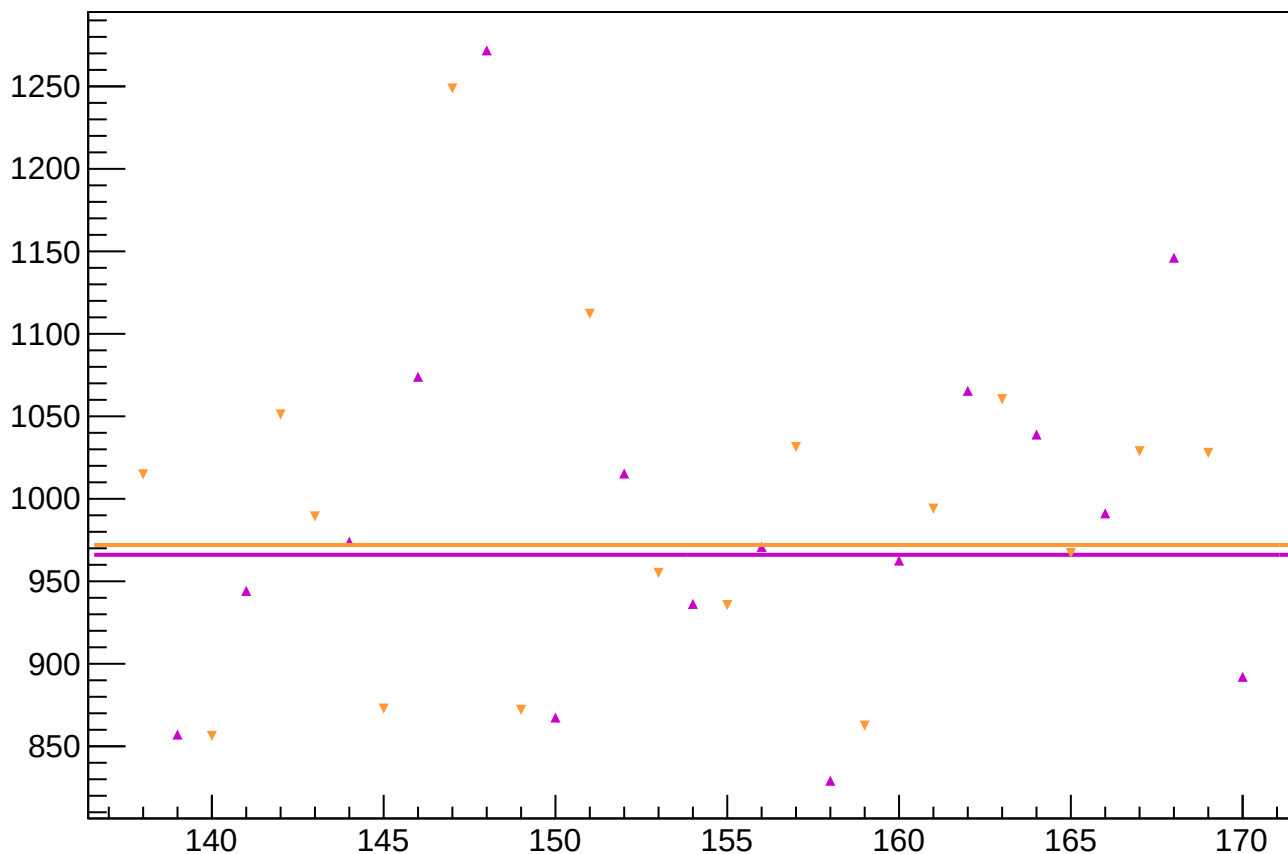
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 173.906+/-275.555 χ^2/NDF :32.9/15

Out: -461.986+/-274.718 χ^2/NDF :13.7/16

All: -145.008+/-194.550 χ^2/NDF : 49.3/32

asym_sam5_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 972.033+/-0.194 χ^2/NDF :233227.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 966.057+/-0.195 χ^2/NDF :275576.6/15

Left: 969.054+/-0.138 χ^2/NDF : 509276.1/32

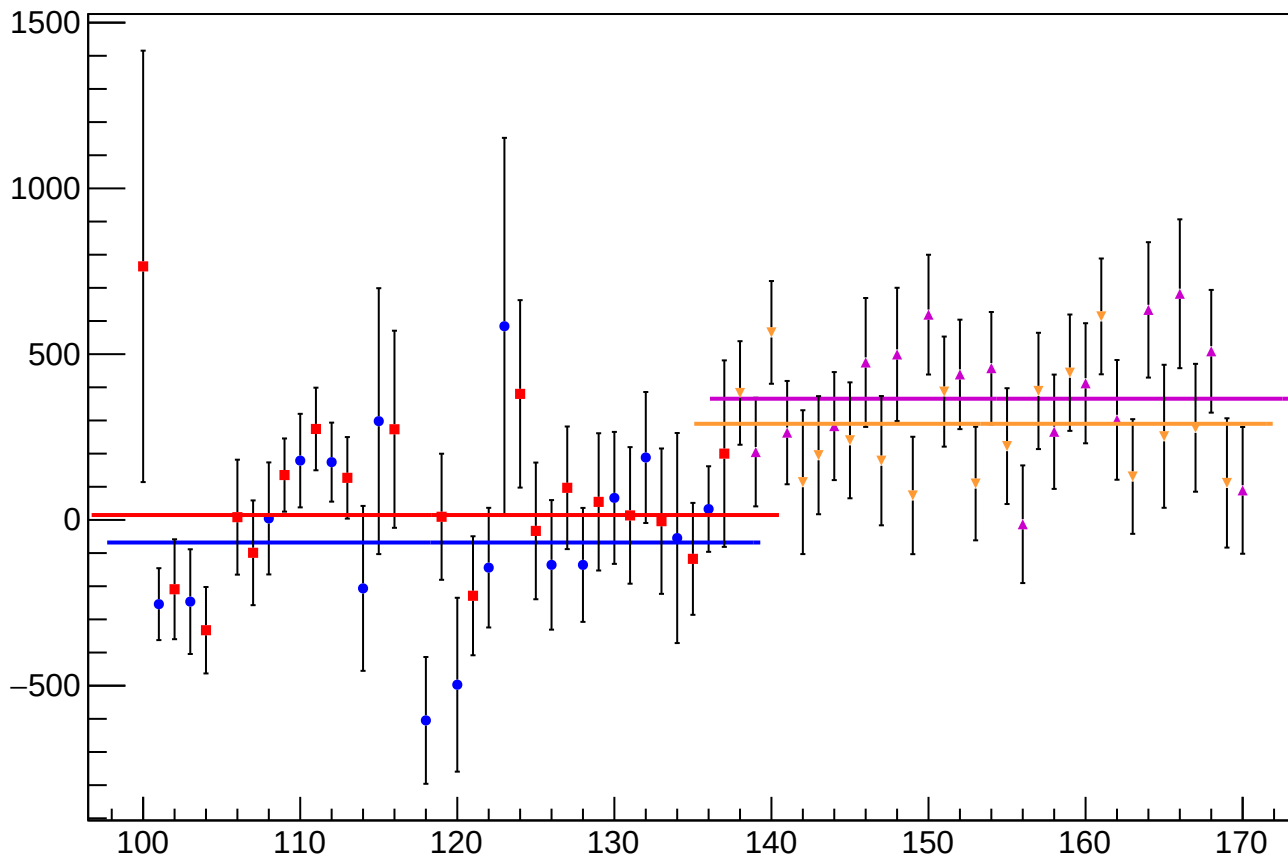
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 966.057+/-0.195 χ^2/NDF :275576.6/15

Out: 972.033+/-0.194 χ^2/NDF :233227.9/16

All: 969.054+/-0.138 χ^2/NDF : 509276.1/32

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -68.111 ± 42.265 χ^2/NDF : 27.8/16

Left Out: 289.967 ± 43.220 χ^2/NDF : 14.2/16

Right Out: 14.800 ± 39.467 χ^2/NDF : 23.1/18

Left In: 365.578 ± 44.879 χ^2/NDF : 16.4/15

Left: 326.350 ± 31.131 χ^2/NDF : 32.0/32

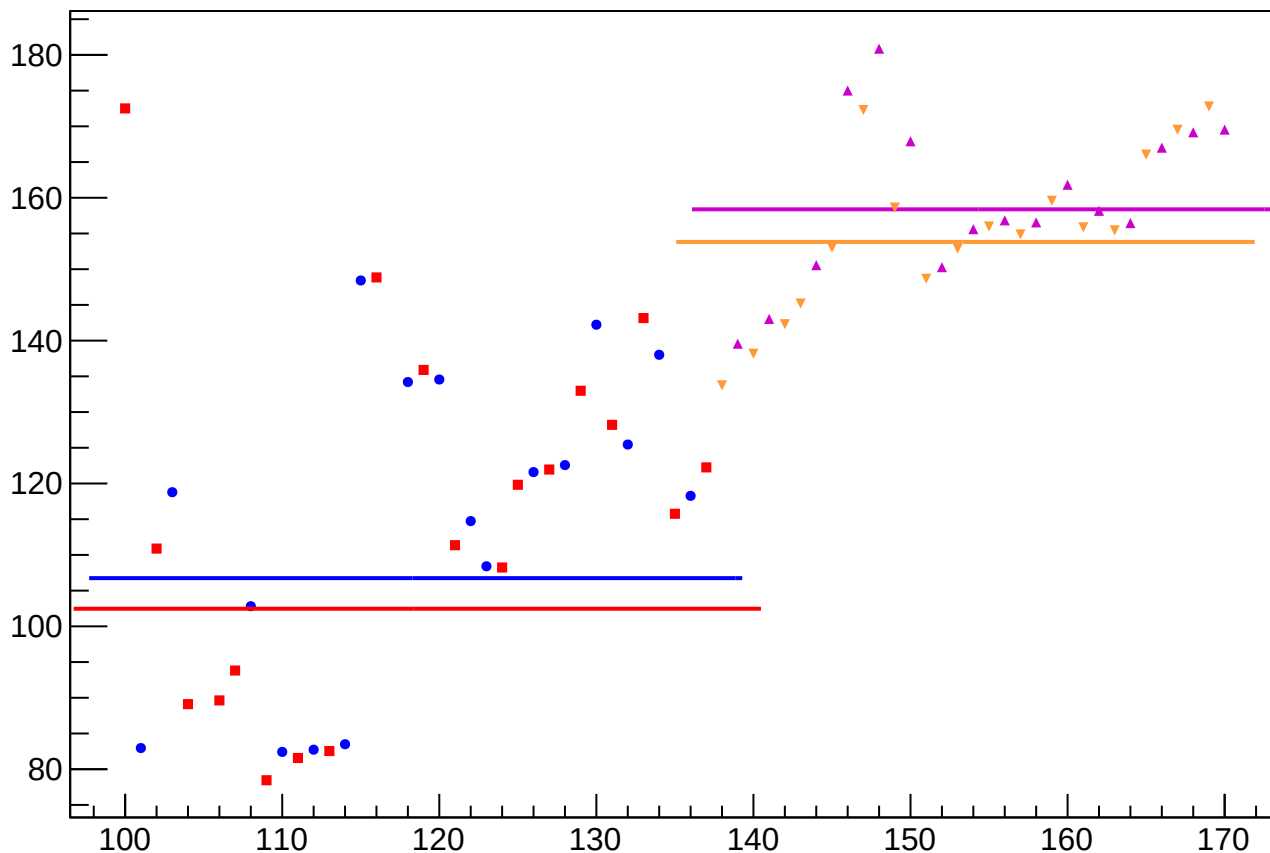
Right: -23.820 ± 28.846 χ^2/NDF : 53.0/35

In: 135.740 ± 30.768 χ^2/NDF : 93.7/32

Out: 139.917 ± 29.144 χ^2/NDF : 59.4/35

All: 137.942 ± 21.159 χ^2/NDF : 153.1/68

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 106.749 $\pm$ 0.030 χ^2 /NDF: 501742.8/16

Left Out: 153.817 $\pm$ 0.031 χ^2 /NDF:126834.4/16

Right Out: 102.467 $\pm$ 0.028 χ^2 /NDF: 589344.0/18

Left In: 158.382 $\pm$ 0.032 χ^2 /NDF:118782.6/15

Left: 156.014 $\pm$ 0.022 χ^2 /NDF: 256356.8/32

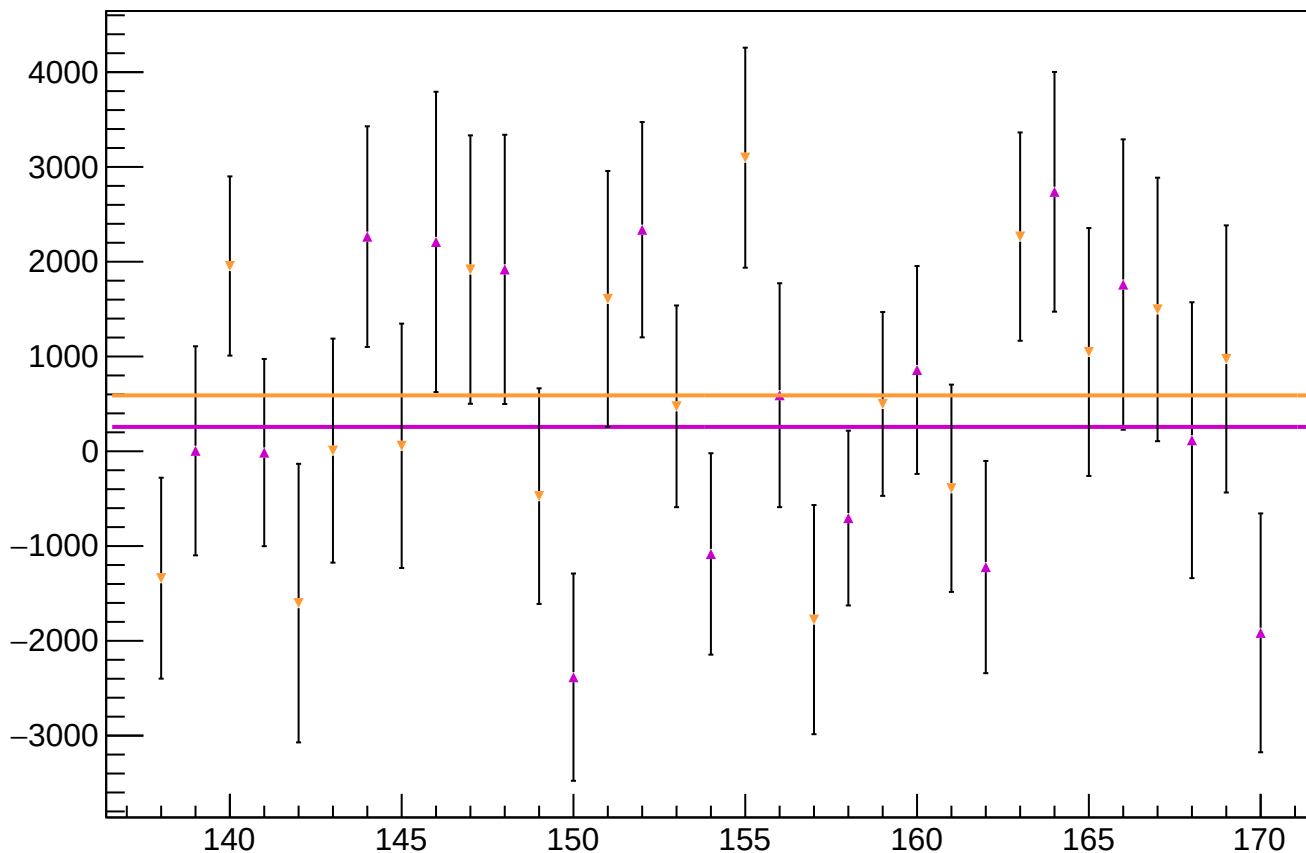
Right: 104.462 $\pm$ 0.020 χ^2 /NDF: 1102055.3/35

In: 131.019 $\pm$ 0.022 χ^2 /NDF:2023494.3/32

Out: 125.815 $\pm$ 0.021 χ^2 /NDF:2255625.0/35

All: 128.276 $\pm$ 0.015 χ^2 /NDF: 4309269.9/68

asym_sam6_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 589.728+/-285.687 χ^2/NDF :22.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 257.110+/-292.957 χ^2/NDF :27.8/15

Left: 427.597+/-204.533 χ^2/NDF : 51.1/32

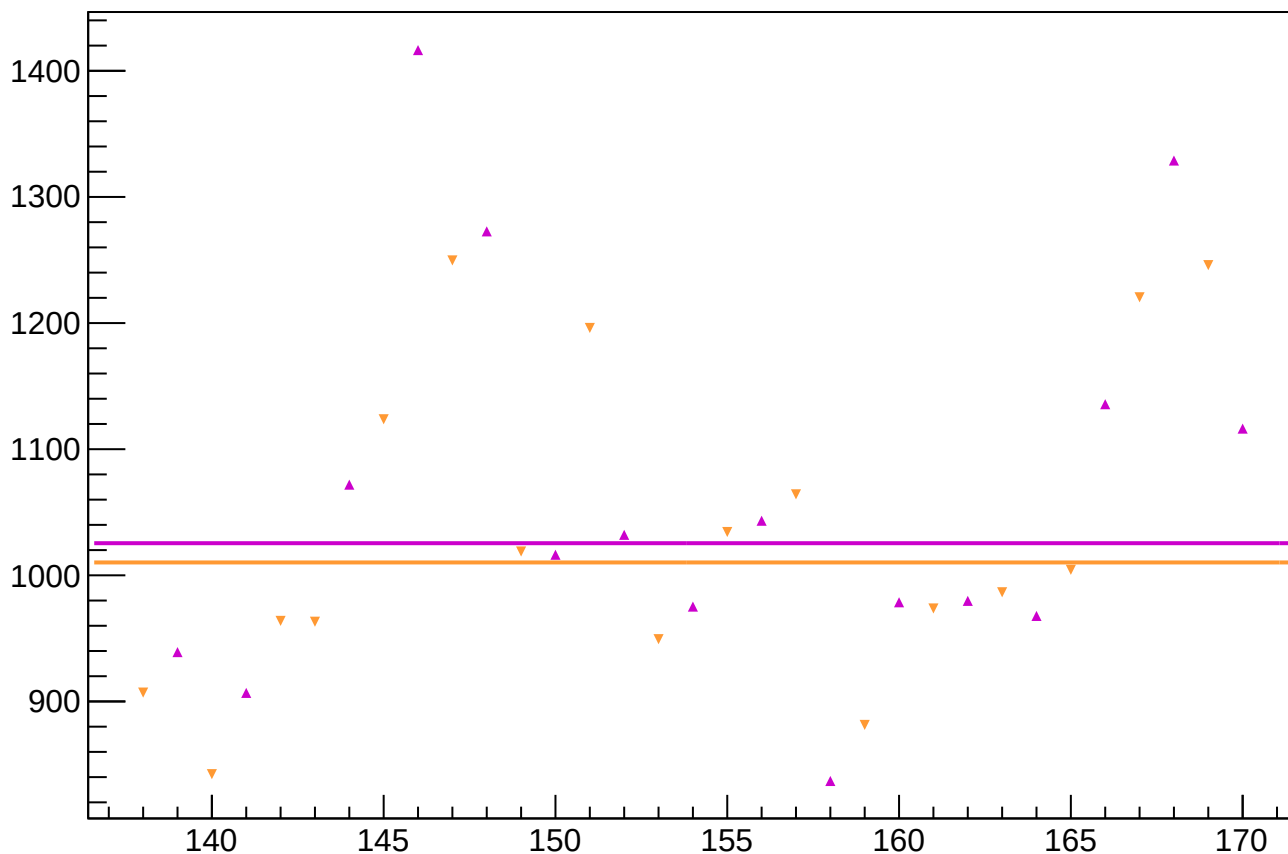
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 257.110+/-292.957 χ^2/NDF :27.8/15

Out: 589.728+/-285.687 χ^2/NDF :22.6/16

All: 427.597+/-204.533 χ^2/NDF : 51.1/32

asym_sam6_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 1010.204+/-0.202 χ^2/NDF : 349521.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 1025.469+/-0.207 χ^2/NDF : 434264.8/15

Left: 1017.645+/-0.145 χ^2/NDF : 786569.8/32

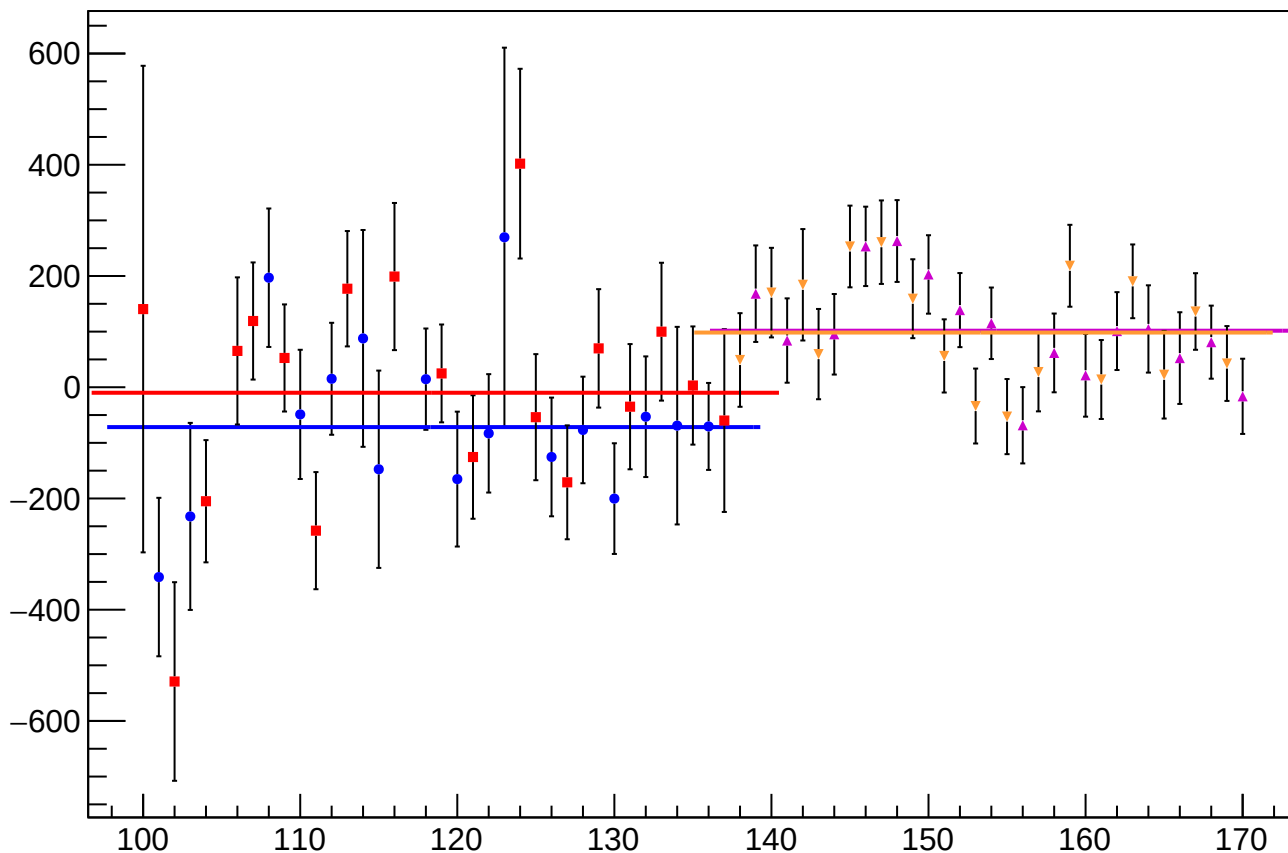
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 1025.469+/-0.207 χ^2/NDF : 434264.8/15

Out: 1010.204+/-0.202 χ^2/NDF : 349521.5/16

All: 1017.645+/-0.145 χ^2/NDF : 786569.8/32

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -71.669 ± 28.358 $\chi^2/\text{NDF}: 15.2/16$

Left Out: 98.332 ± 17.727 $\chi^2/\text{NDF}: 30.1/16$

Right Out: -9.917 ± 26.816 $\chi^2/\text{NDF}: 36.5/18$

Left In: 101.636 ± 17.950 $\chi^2/\text{NDF}: 23.5/15$

Left: 99.964 ± 12.613 $\chi^2/\text{NDF}: 53.7/32$

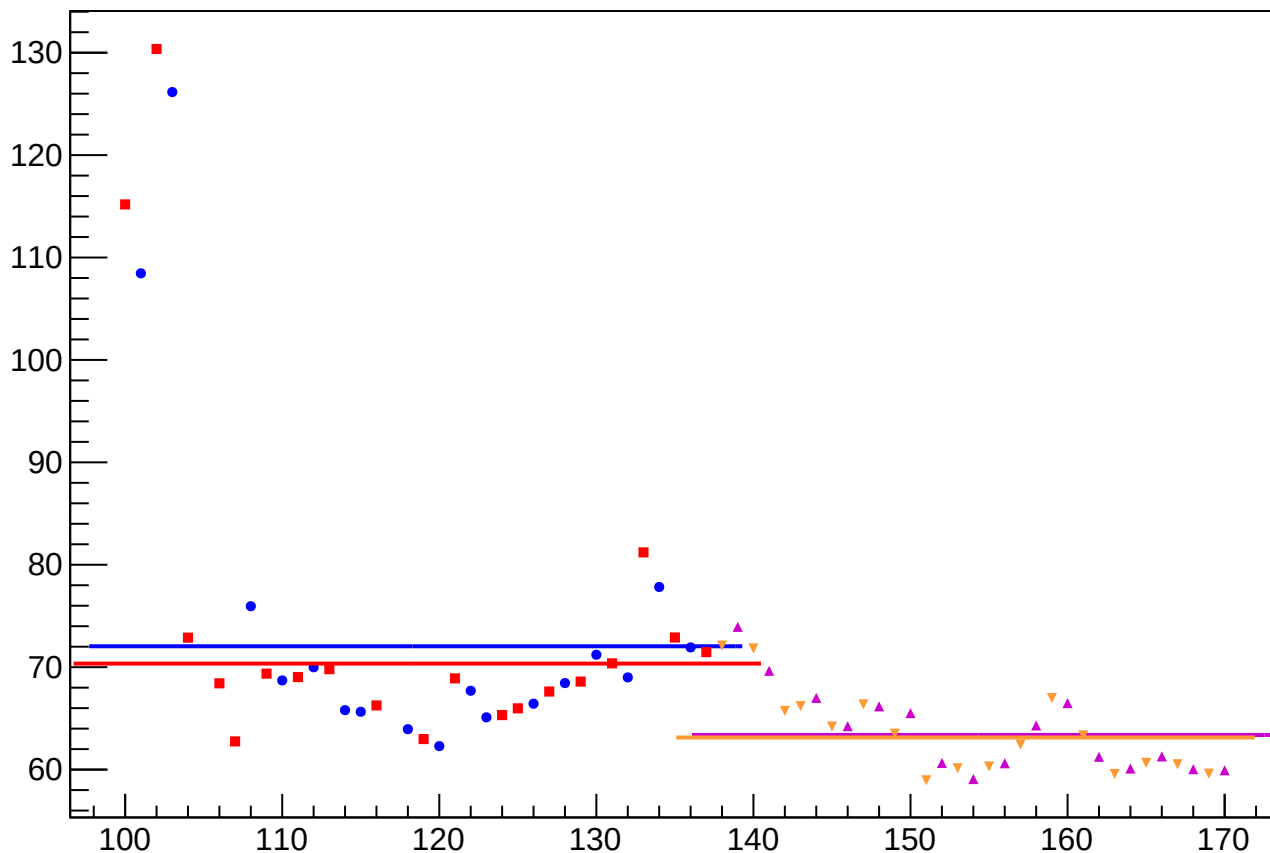
Right: -39.068 ± 19.484 $\chi^2/\text{NDF}: 54.2/35$

In: 52.064 ± 15.167 $\chi^2/\text{NDF}: 65.4/32$

Out: 65.413 ± 14.788 $\chi^2/\text{NDF}: 77.9/35$

All: 58.908 ± 10.588 $\chi^2/\text{NDF}: 143.8/68$

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 72.042 $\pm$ 0.020 χ^2 /NDF: 391971.7/16

Left Out: 63.133 $\pm$ 0.013 χ^2 /NDF: 91770.2/16

Right Out: 70.351 $\pm$ 0.019 χ^2 /NDF: 299005.5/18

Left In: 63.380 $\pm$ 0.013 χ^2 /NDF: 89672.1/15

Left: 63.255 $\pm$ 0.009 χ^2 /NDF: 181633.4/32

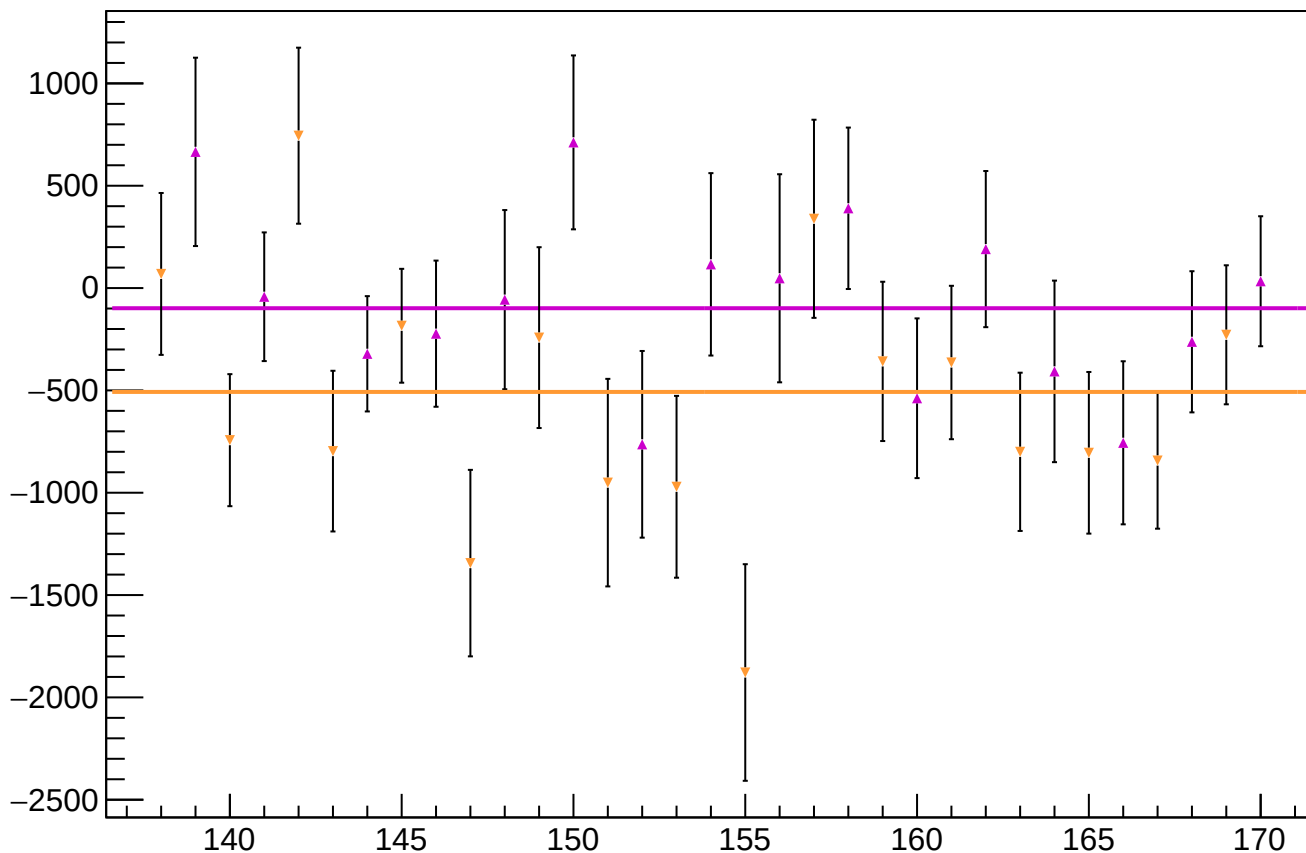
Right: 71.149 $\pm$ 0.014 χ^2 /NDF: 694733.5/35

In: 65.858 $\pm$ 0.011 χ^2 /NDF: 614884.3/32

Out: 65.328 $\pm$ 0.010 χ^2 /NDF: 491603.4/35

All: 65.586 $\pm$ 0.007 χ^2 /NDF: 1107737.5/68

asym_sam7_correction_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

Left Out: -507.461 ± 94.460 $\chi^2/\text{NDF}: 31.5/16$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

Left In: -98.496 ± 95.637 $\chi^2/\text{NDF}: 16.6/15$

Left: -305.511 ± 67.206 $\chi^2/\text{NDF}: 57.4/32$

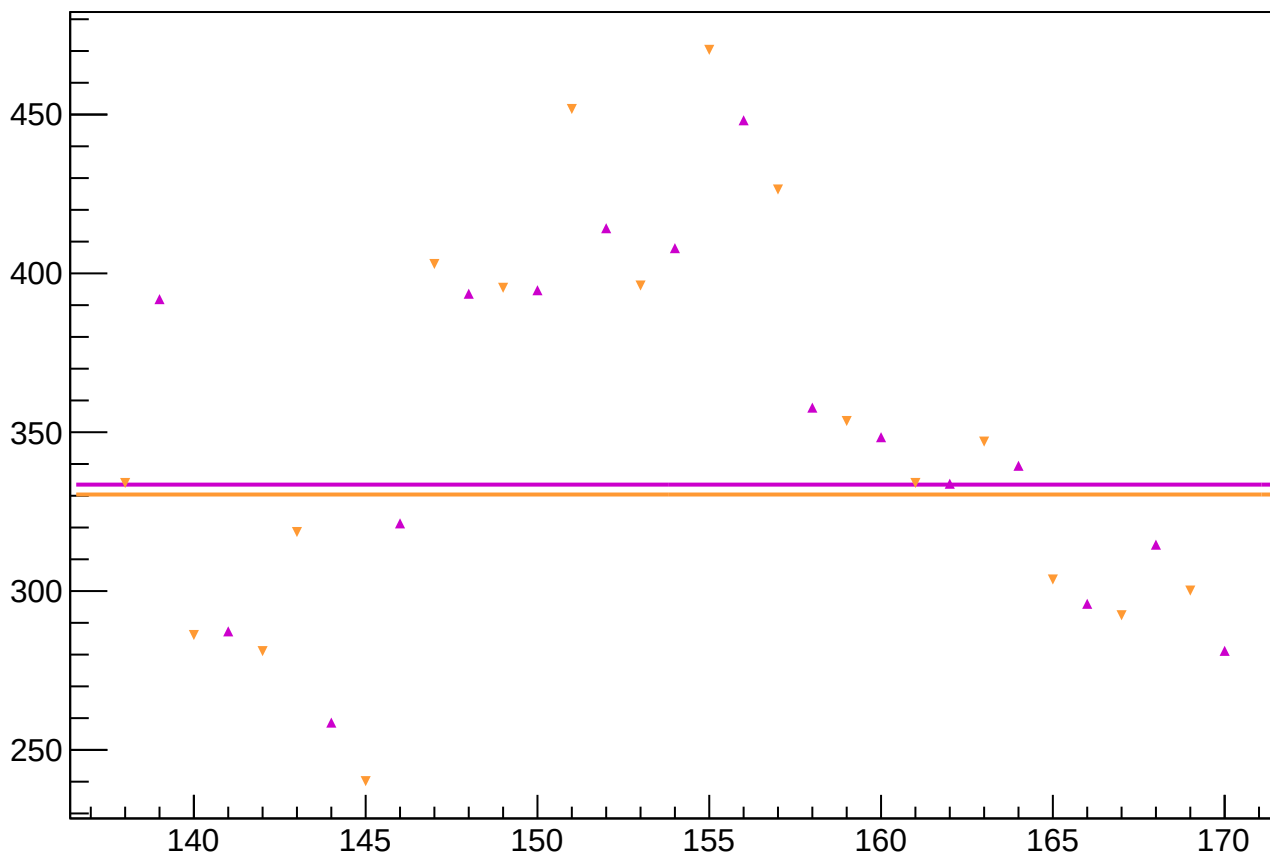
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

In: -98.496 ± 95.637 $\chi^2/\text{NDF}: 16.6/15$

Out: -507.461 ± 94.460 $\chi^2/\text{NDF}: 31.5/16$

All: -305.511 ± 67.206 $\chi^2/\text{NDF}: 57.4/32$

asym_sam7_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 330.393+/-0.067 χ^2/NDF : 809527.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 333.508+/-0.068 χ^2/NDF : 607396.2/15

Left: 331.931+/-0.048 χ^2/NDF : 1417997.9/32

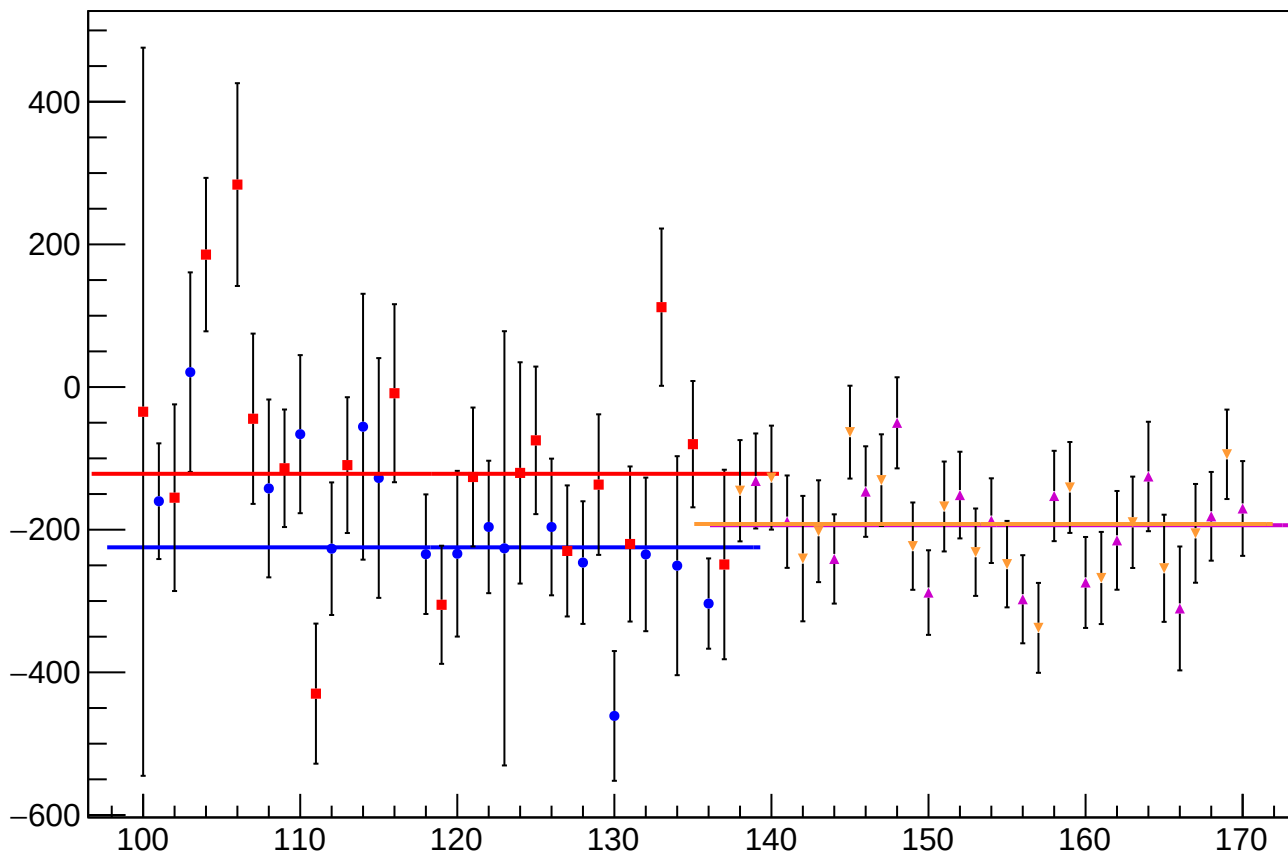
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 333.508+/-0.068 χ^2/NDF : 607396.2/15

Out: 330.393+/-0.067 χ^2/NDF : 809527.6/16

All: 331.931+/-0.048 χ^2/NDF : 1417997.9/32

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -224.727 $\pm$ 24.880 χ^2 /NDF: 16.0/16

Left Out: -192.000 $\pm$ 16.077 χ^2 /NDF:18.6/16

Right Out: -121.633 $\pm$ 24.599 χ^2 /NDF: 40.5/18

Left In: -193.729 $\pm$ 16.212 χ^2 /NDF:17.8/15

Left: -192.858 $\pm$ 11.416 χ^2 /NDF: 36.3/32

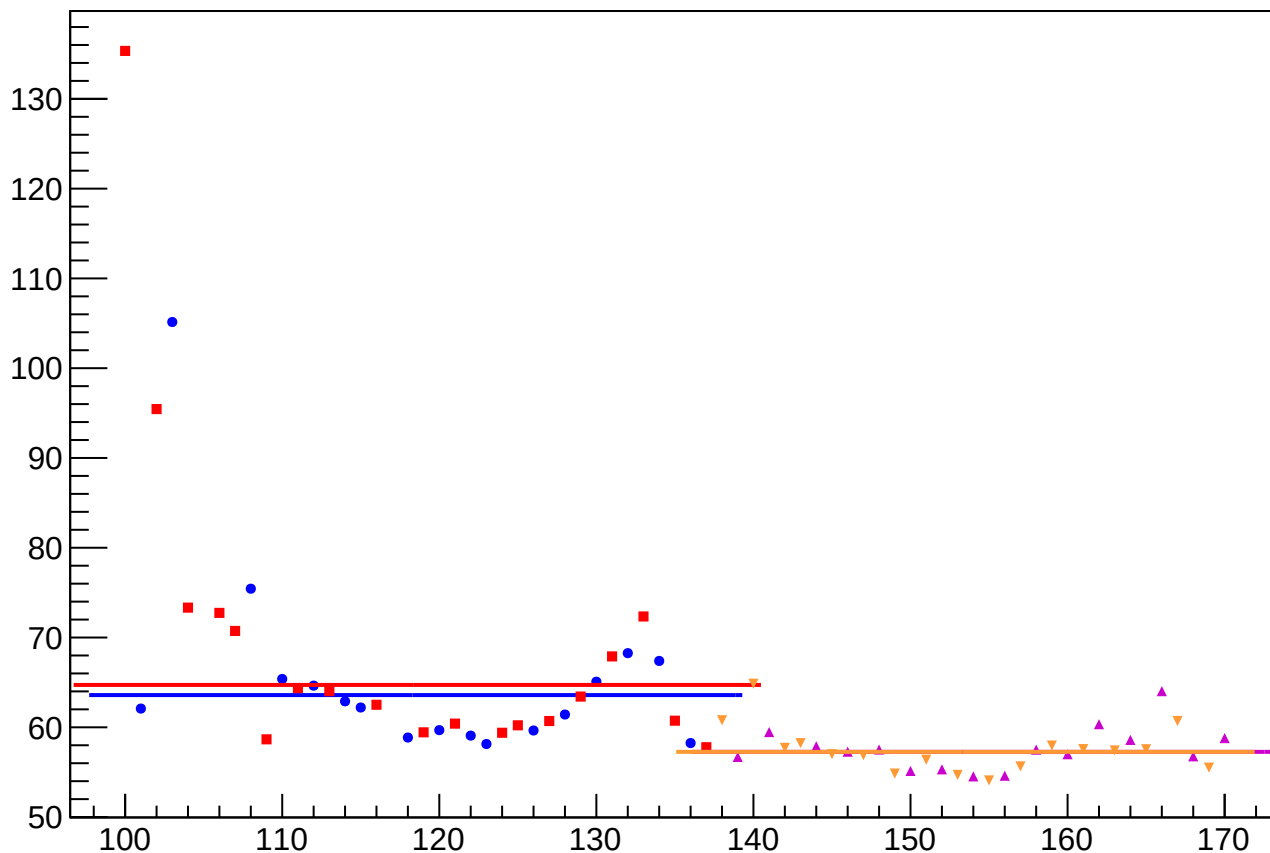
Right: -172.594 $\pm$ 17.493 χ^2 /NDF: 65.1/35

In: -202.968 $\pm$ 13.583 χ^2 /NDF:34.8/32

Out: -170.940 $\pm$ 13.458 χ^2 /NDF:64.8/35

All: -186.805 $\pm$ 9.560 χ^2 /NDF: 102.4/68

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 63.589+/-0.018 χ^2/NDF : 234601.0/16

Left Out: 57.267+/-0.011 χ^2/NDF : 47783.8/16

Right Out: 64.720+/-0.017 χ^2/NDF : 227506.4/18

Left In: 57.266+/-0.011 χ^2/NDF : 33190.4/15

Left: 57.267+/-0.008 χ^2/NDF : 80974.3/32

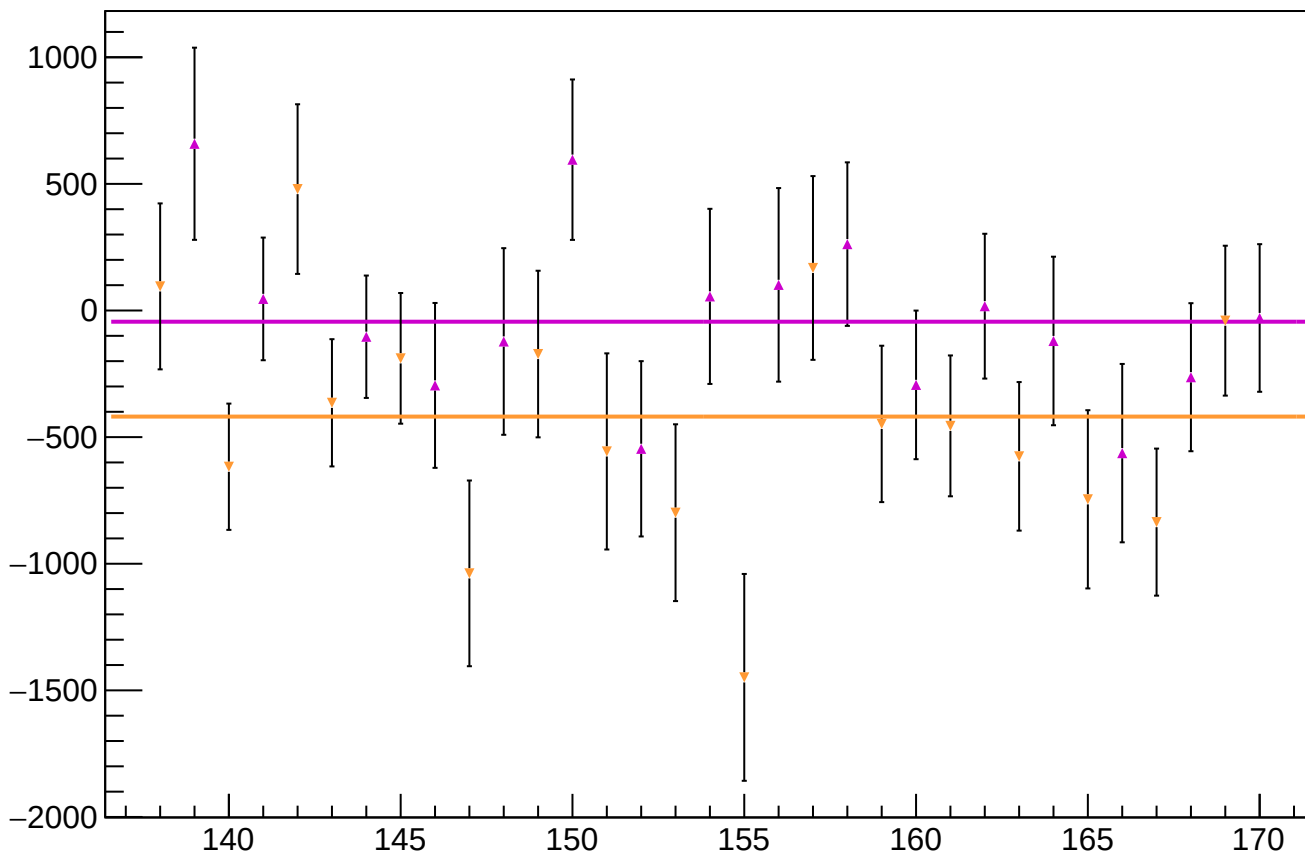
Right: 64.161+/-0.012 χ^2/NDF : 464197.3/35

In: 59.151+/-0.010 χ^2/NDF : 358464.2/32

Out: 59.498+/-0.010 χ^2/NDF : 403919.7/35

All: 59.326+/-0.007 χ^2/NDF : 763044.2/68

asym_sam8_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -418.909+/-75.225 χ^2/NDF :29.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -44.238+/-77.746 χ^2/NDF :15.1/15

Left: -237.747+/-54.061 χ^2/NDF : 56.8/32

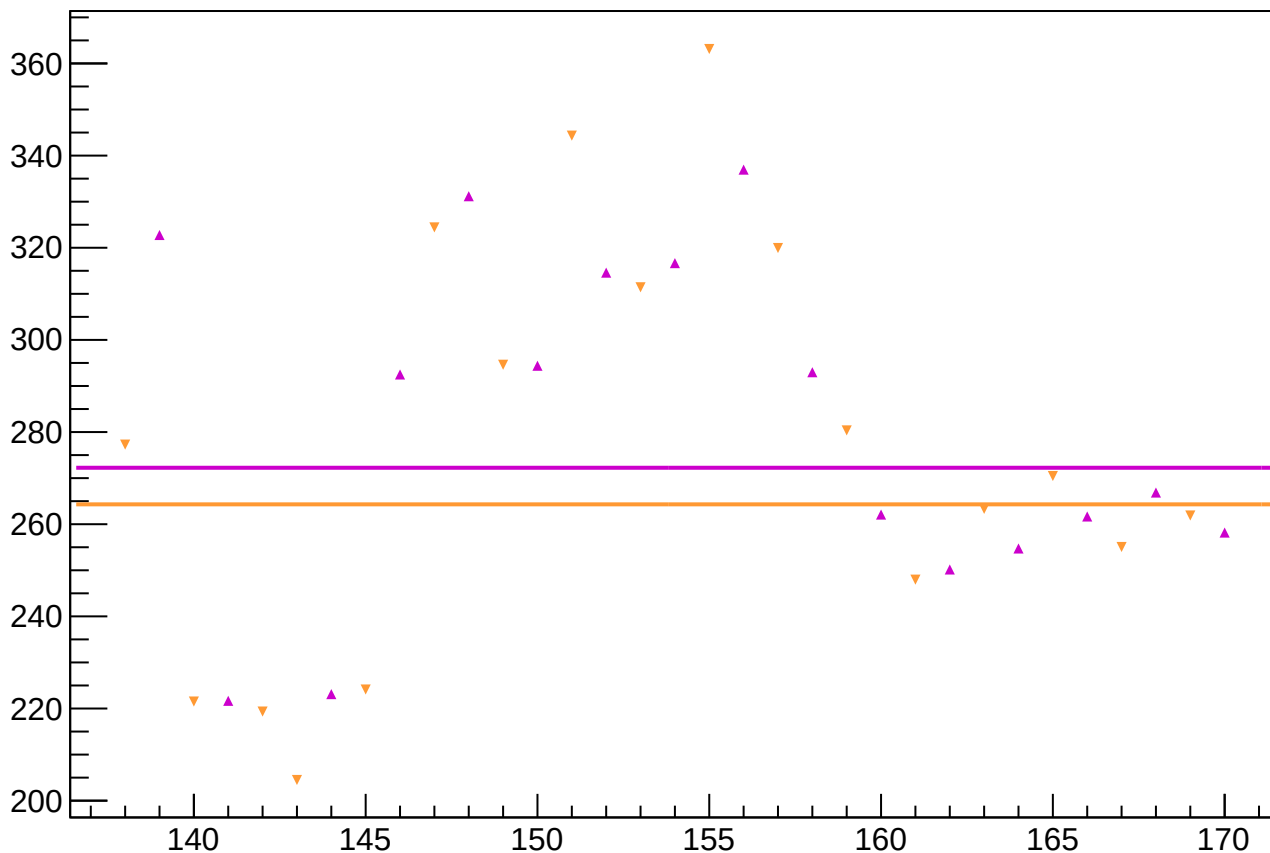
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -44.238+/-77.746 χ^2/NDF :15.1/15

Out: -418.909+/-75.225 χ^2/NDF :29.7/16

All: -237.747+/-54.061 χ^2/NDF : 56.8/32

asym_sam8_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 264.311+/-0.053 χ^2/NDF :631778.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 272.252+/-0.055 χ^2/NDF :429471.0/15

Left: 268.150+/-0.038 χ^2/NDF : 1072025.1/32

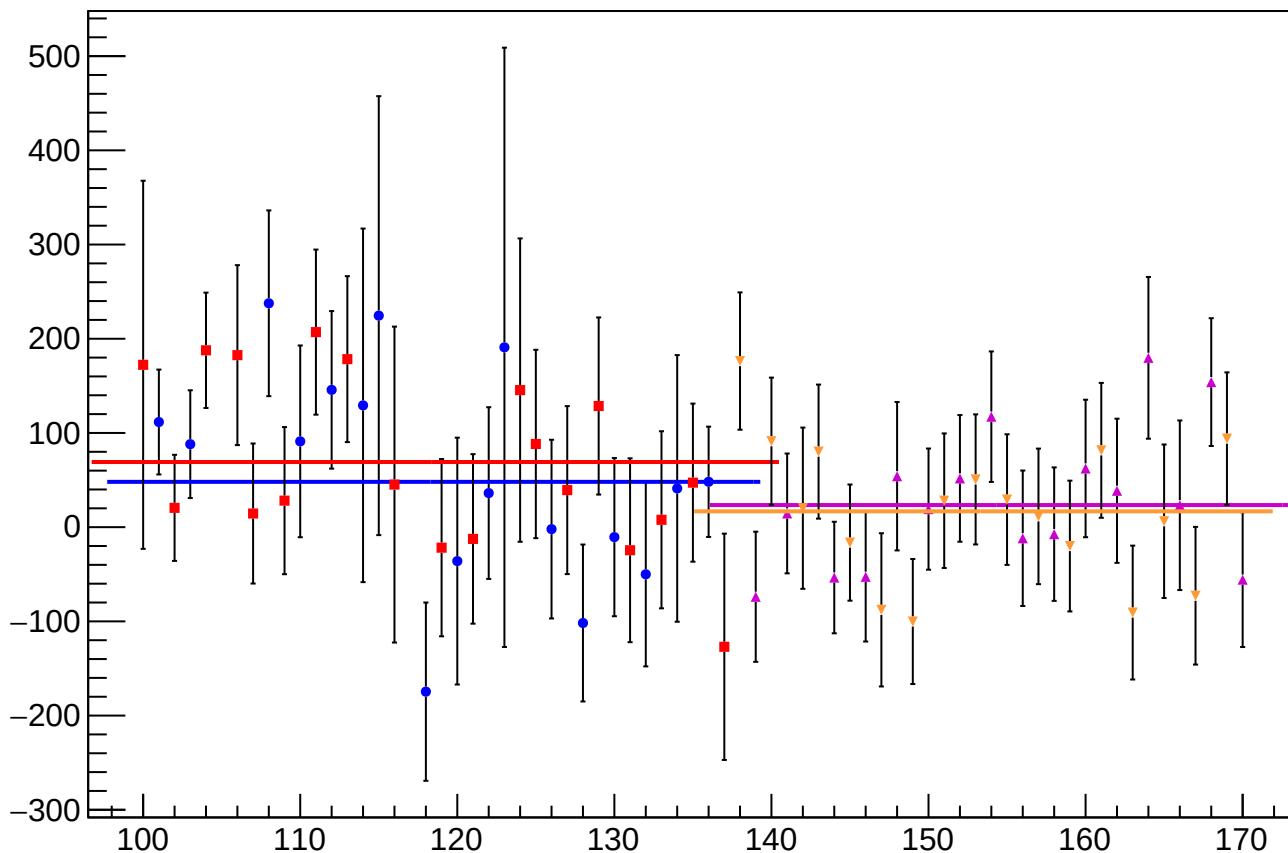
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 272.252+/-0.055 χ^2/NDF :429471.0/15

Out: 264.311+/-0.053 χ^2/NDF :631778.6/16

All: 268.150+/-0.038 χ^2/NDF : 1072025.1/32

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 48.109+/-21.510 χ^2/NDF : 19.0/16

Left Out: 16.825+/-17.327 χ^2/NDF : 18.3/16

Right Out: 69.156+/-20.407 χ^2/NDF : 17.7/18

Left In: 23.473+/-17.651 χ^2/NDF : 16.1/15

Left: 20.088+/-12.365 χ^2/NDF : 34.4/32

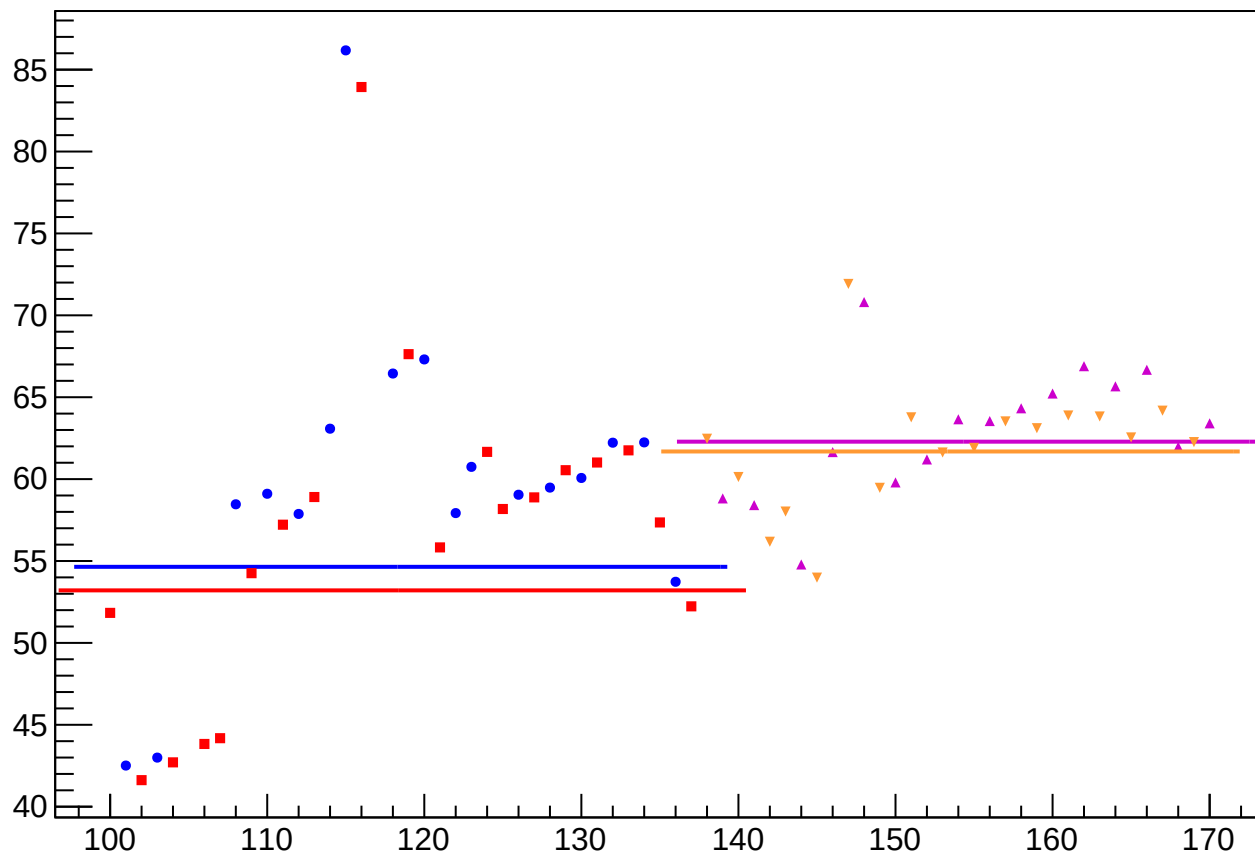
Right: 59.186+/-14.805 χ^2/NDF : 37.1/35

In: 33.386+/-13.645 χ^2/NDF : 35.8/32

Out: 38.748+/-13.208 χ^2/NDF : 39.7/35

All: 36.154+/-9.490 χ^2/NDF : 75.7/68

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 54.645 $\pm$ 0.015 χ^2 /NDF: 319300.2/16

Left Out: 61.687 $\pm$ 0.012 χ^2 /NDF: 90230.9/16

Right Out: 53.207 $\pm$ 0.014 χ^2 /NDF: 386295.2/18

Left In: 62.286 $\pm$ 0.012 χ^2 /NDF: 93578.7/15

Left: 61.981 $\pm$ 0.009 χ^2 /NDF: 184981.8/32

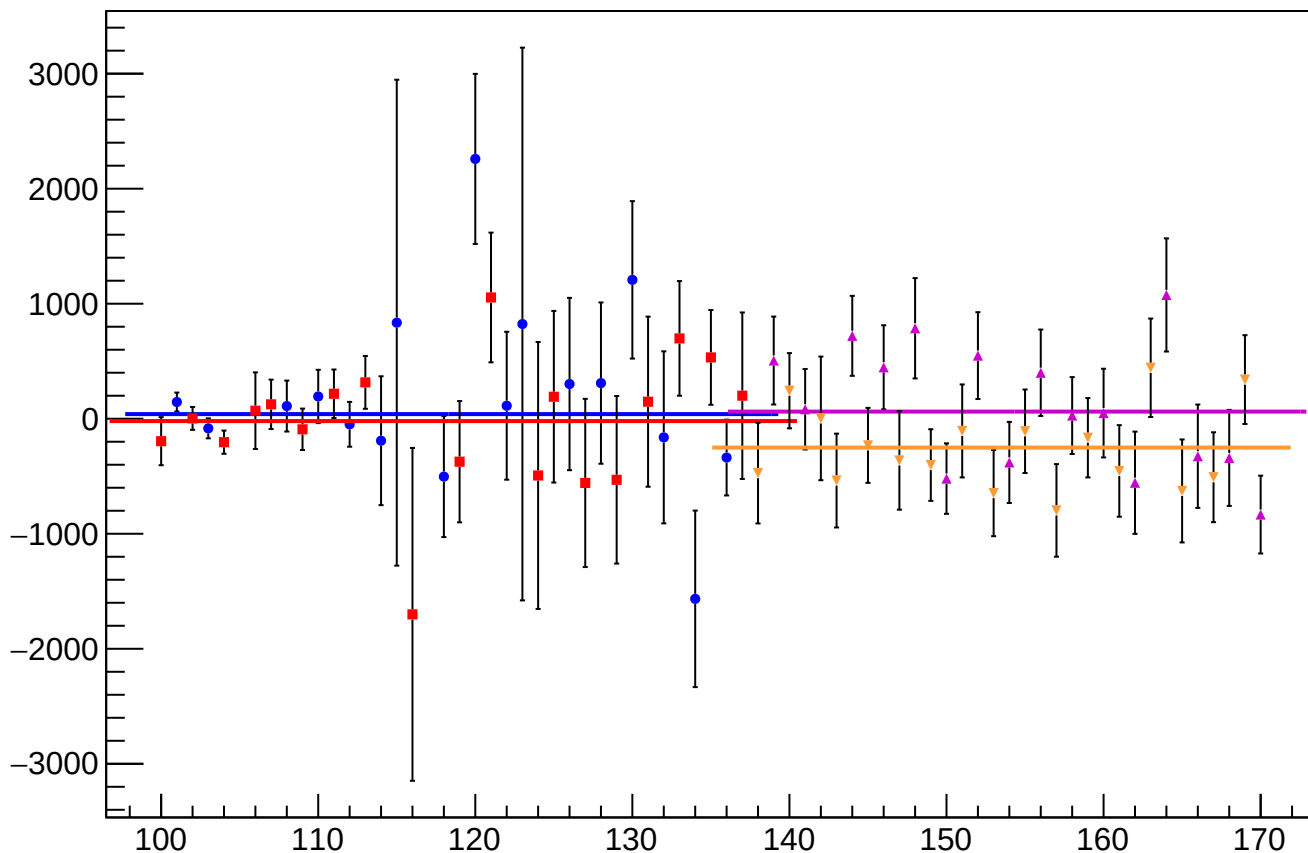
Right: 53.888 $\pm$ 0.010 χ^2 /NDF: 710299.5/35

In: 59.211 $\pm$ 0.010 χ^2 /NDF: 563714.5/32

Out: 58.135 $\pm$ 0.009 χ^2 /NDF: 677230.7/35

All: 58.656 $\pm$ 0.007 χ^2 /NDF: 1247373.6/68

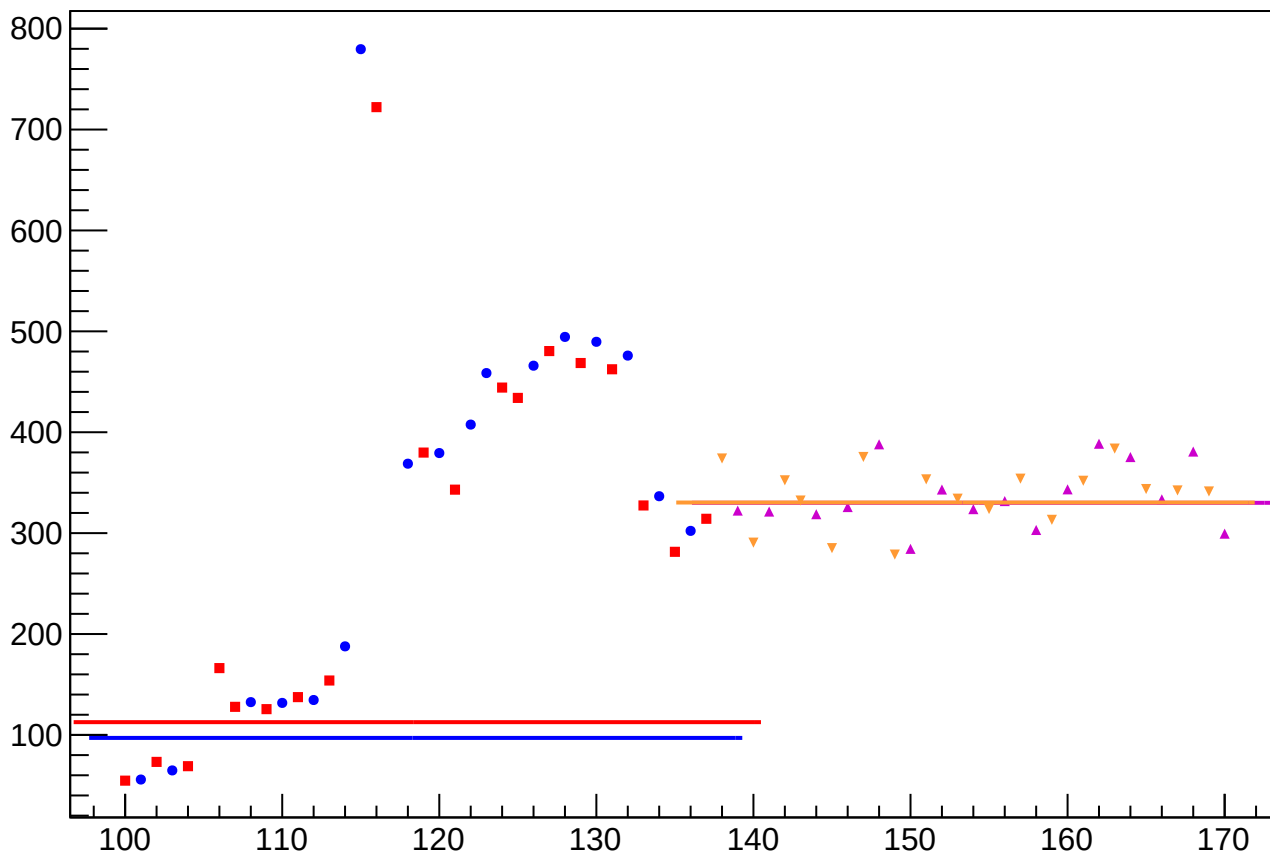
asym_sam_15_avg_correction_mean vs Slug, Sign Corrected



Right In: 40.207 $\pm$ 51.542 χ^2 /NDF: 23.9/16
 Left Out: -250.701 $\pm$ 93.392 χ^2 /NDF:13.2/16
 Right Out: -20.232 $\pm$ 53.274 χ^2 /NDF: 18.9/18
 Left In: 62.078 $\pm$ 94.013 χ^2 /NDF:31.3/15

Left: -95.349 $\pm$ 66.256 χ^2 /NDF: 50.2/32
 Right: 10.986 $\pm$ 37.043 χ^2 /NDF: 43.4/35
 In: 45.262 $\pm$ 45.196 χ^2 /NDF:55.3/32
 Out: -76.815 $\pm$ 46.275 χ^2 /NDF:36.7/35
 All: -14.337 $\pm$ 32.333 χ^2 /NDF: 95.6/68

asym_sam_15_avg_correction_rms vs Slug, Sign Corrected



Right In: 97.039+/-0.036 χ^2/NDF : 5819709.2/16

Left Out: 330.344+/-0.066 χ^2/NDF : 229984.0/16

Right Out: 112.653+/-0.038 χ^2/NDF : 5036306.5/18

Left In: 330.045+/-0.066 χ^2/NDF : 200404.4/15

Left: 330.195+/-0.047 χ^2/NDF : 430398.6/32

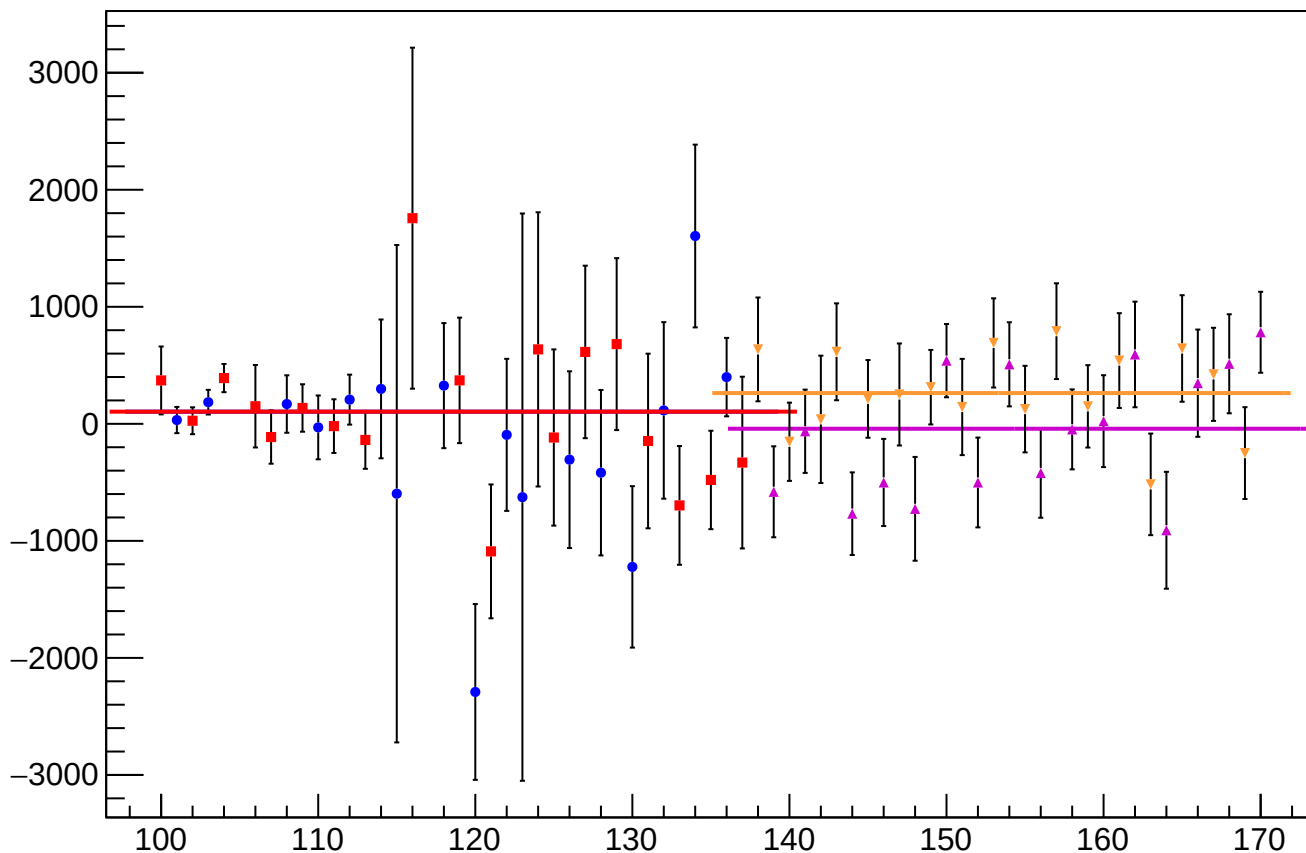
Right: 104.588+/-0.026 χ^2/NDF : 10944761.2/35

In: 150.888+/-0.032 χ^2/NDF : 15466192.8/32

Out: 166.099+/-0.033 χ^2/NDF : 13465034.4/35

All: 158.314+/-0.023 χ^2/NDF : 29041818.8/68

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 104.001 $\pm$ 63.156 χ^2 /NDF: 21.3/16

Left Out: 263.034 $\pm$ 95.061 χ^2 /NDF:12.7/16

Right Out: 104.140 $\pm$ 60.857 χ^2 /NDF: 21.3/18

Left In: -41.883 $\pm$ 95.734 χ^2 /NDF:31.4/15

Left: 111.651 $\pm$ 67.455 χ^2 /NDF: 49.3/32

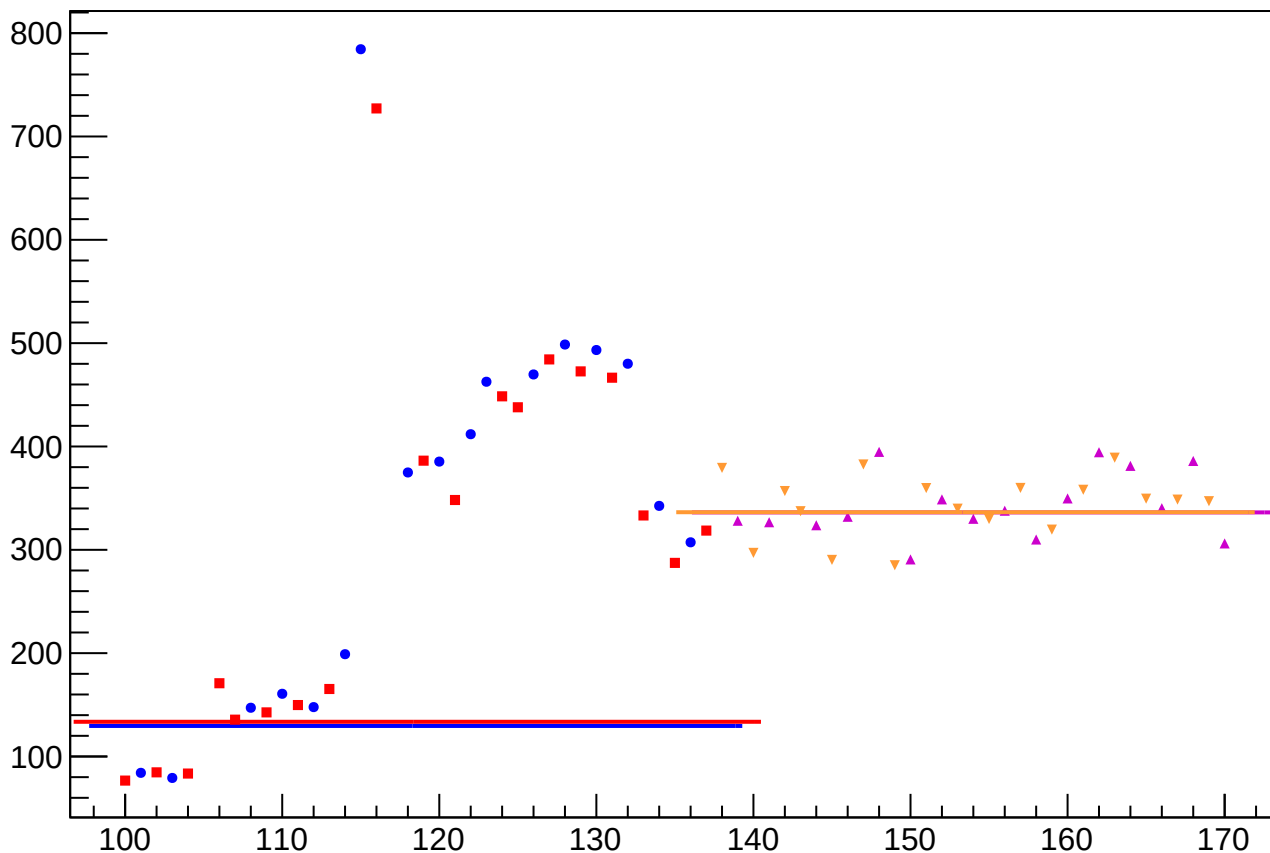
Right: 104.073 $\pm$ 43.823 χ^2 /NDF: 42.6/35

In: 59.763 $\pm$ 52.718 χ^2 /NDF:54.3/32

Out: 150.330 $\pm$ 51.254 χ^2 /NDF:36.0/35

All: 106.322 $\pm$ 36.749 χ^2 /NDF: 91.9/68

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 129.552 $\pm$ 0.045 χ^2 /NDF: 4772450.4/16

Left Out: 336.389 $\pm$ 0.067 χ^2 /NDF:221164.0/16

Right Out: 133.593 $\pm$ 0.043 χ^2 /NDF: 4366252.1/18

Left In: 336.214 $\pm$ 0.068 χ^2 /NDF:191658.8/15

Left: 336.302 $\pm$ 0.048 χ^2 /NDF: 412826.2/32

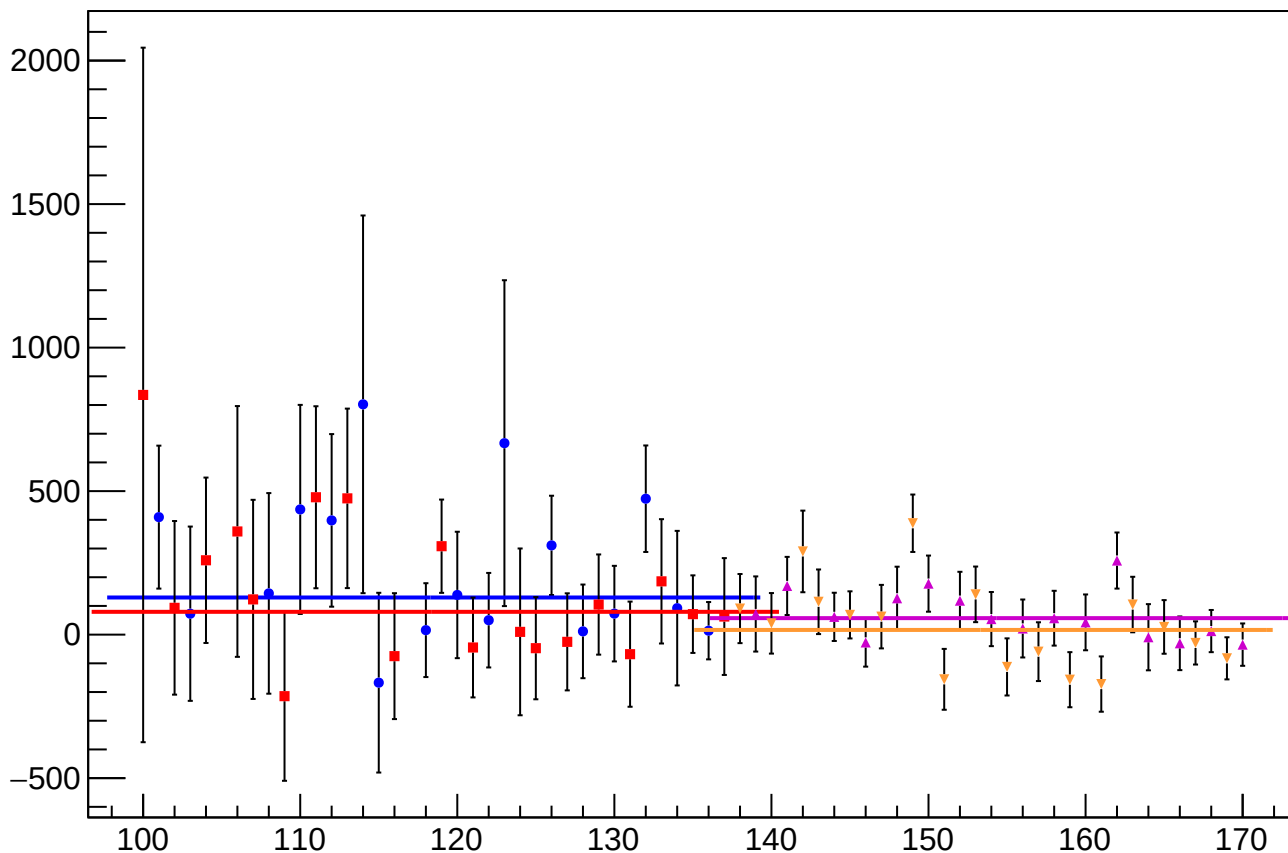
Right: 131.647 $\pm$ 0.031 χ^2 /NDF: 9142947.8/35

In: 192.220 $\pm$ 0.037 χ^2 /NDF:11457965.6/32

Out: 192.546 $\pm$ 0.036 χ^2 /NDF:11043593.9/35

All: 192.387 $\pm$ 0.026 χ^2 /NDF: 22501598.8/68

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 129.398 $\pm$ 49.122 χ^2 /NDF: 12.9/16

Left Out: 16.348 $\pm$ 23.508 χ^2 /NDF:35.9/16

Right Out: 79.483 $\pm$ 49.886 χ^2 /NDF: 10.2/18

Left In: 57.478 $\pm$ 23.483 χ^2 /NDF:12.0/15

Left: 36.935 $\pm$ 16.614 χ^2 /NDF: 49.5/32

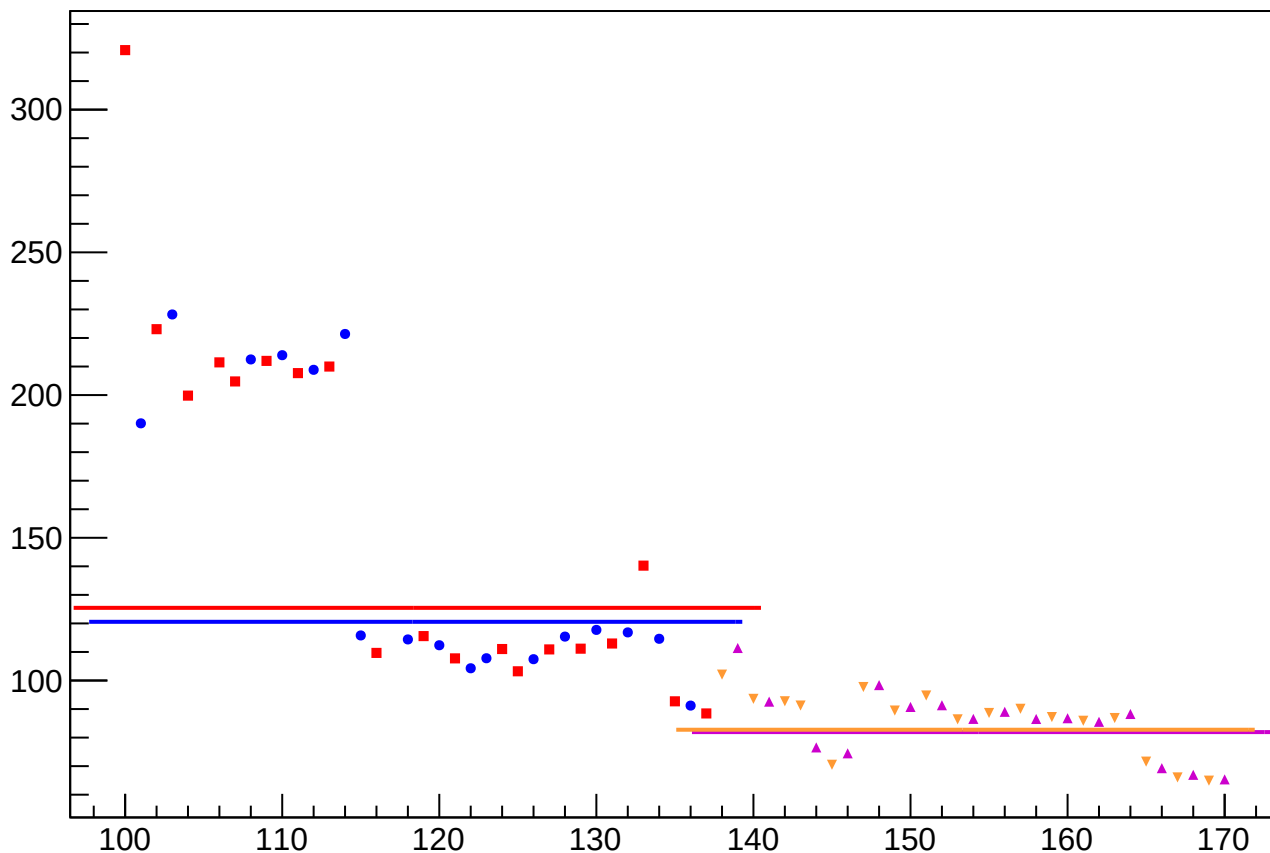
Right: 104.826 $\pm$ 35.001 χ^2 /NDF: 23.7/35

In: 70.857 $\pm$ 21.186 χ^2 /NDF:26.7/32

Out: 27.821 $\pm$ 21.265 χ^2 /NDF:47.4/35

All: 49.418 $\pm$ 15.009 χ^2 /NDF: 76.2/68

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 120.565 $\pm$ 0.035 χ^2 /NDF: 1112076.4/16

Left Out: 82.755 $\pm$ 0.017 χ^2 /NDF: 485237.4/16

Right Out: 125.458 $\pm$ 0.035 χ^2 /NDF: 1333754.6/18

Left In: 81.929 $\pm$ 0.017 χ^2 /NDF: 479152.7/15

Left: 82.341 $\pm$ 0.012 χ^2 /NDF: 965626.4/32

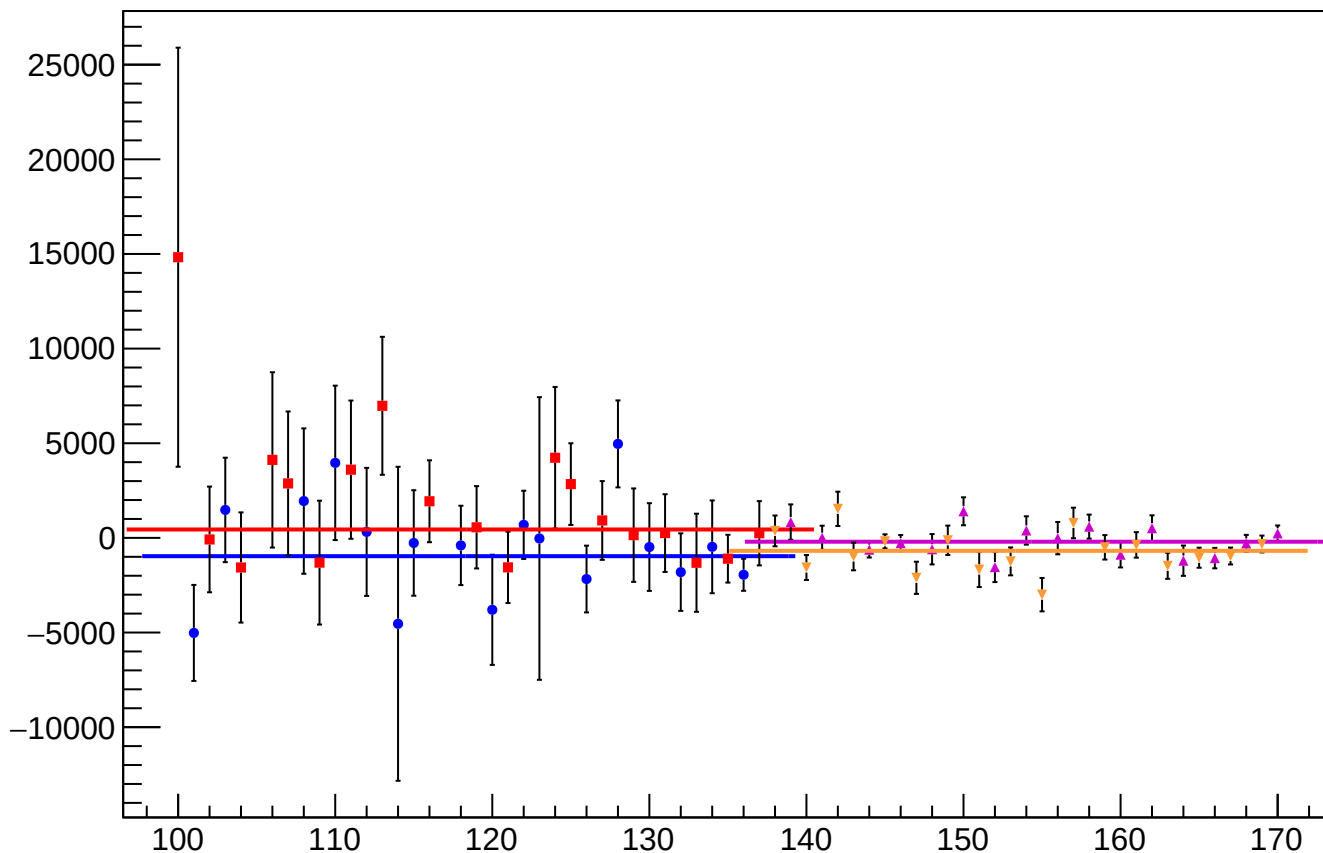
Right: 122.974 $\pm$ 0.025 χ^2 /NDF: 2455600.4/35

In: 89.116 $\pm$ 0.015 χ^2 /NDF: 2598370.1/32

Out: 90.514 $\pm$ 0.015 χ^2 /NDF: 3018250.7/35

All: 89.813 $\pm$ 0.011 χ^2 /NDF: 5620962.1/68

asym_sam_26_avg_correction_mean vs Slug, Sign Corrected



Right In: -966.587+/-512.340 χ^2/NDF : 16.4/16

Left Out: -683.927+/-151.815 χ^2/NDF : 29.8/16

Right Out: 444.406+/-545.370 χ^2/NDF : 13.4/18

Left In: -202.477+/-148.500 χ^2/NDF : 19.9/15

Left: -437.889+/-106.158 χ^2/NDF : 54.9/32

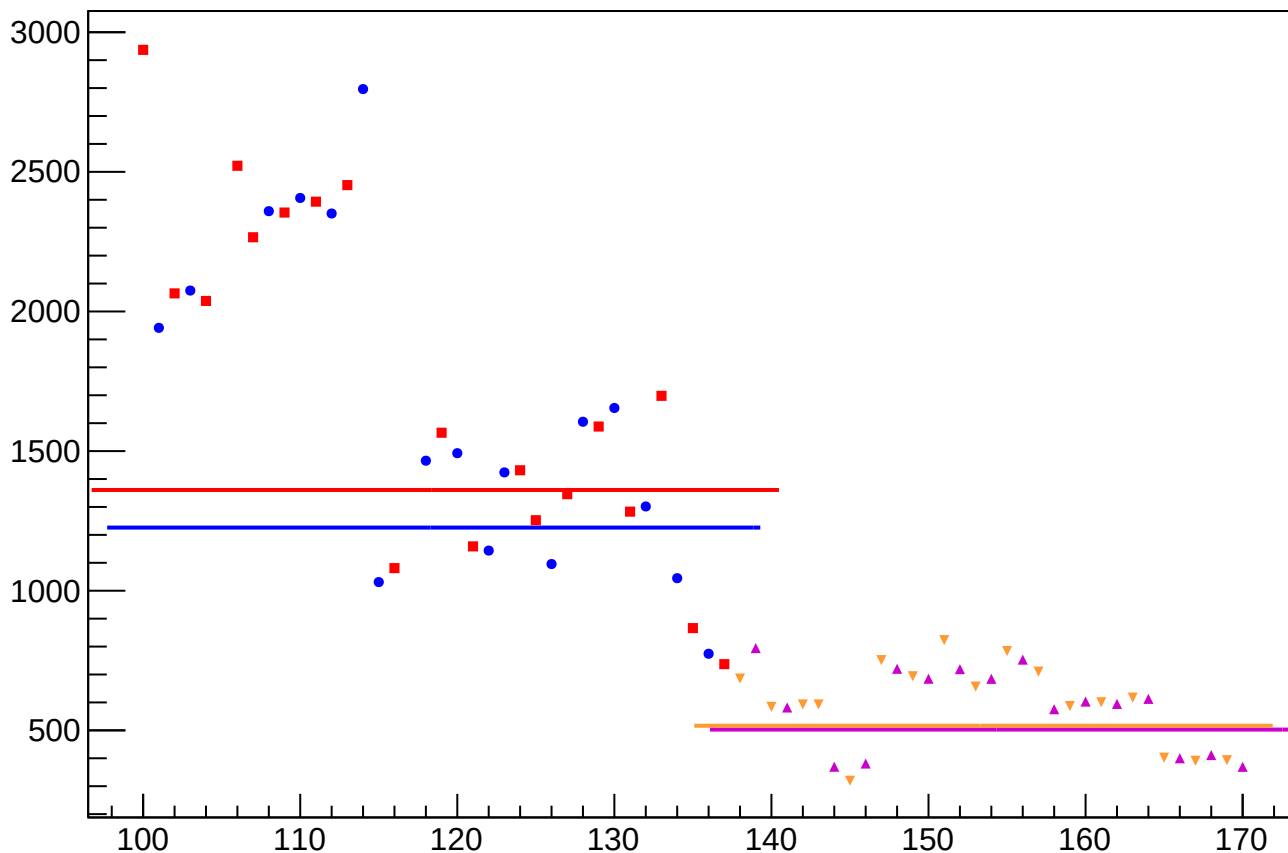
Right: -305.110+/-373.410 χ^2/NDF : 33.3/35

In: -261.696+/-142.630 χ^2/NDF : 38.3/32

Out: -602.781+/-146.254 χ^2/NDF : 47.2/35

All: -427.960+/-102.112 χ^2/NDF : 88.3/68

asym_sam_26_avg_correction_rms vs Slug, Sign Corrected



Right In: 1226.135 $\pm$ 0.362 χ^2 /NDF: 1756323.1/16

Left Out: 516.498 $\pm$ 0.107 χ^2 /NDF:2057840.0/16

Right Out: 1360.770 $\pm$ 0.386 χ^2 /NDF: 1749074.9/18

Left In: 502.780 $\pm$ 0.105 χ^2 /NDF:1800460.1/15

Left: 509.487 $\pm$ 0.075 χ^2 /NDF: 3866645.7/32

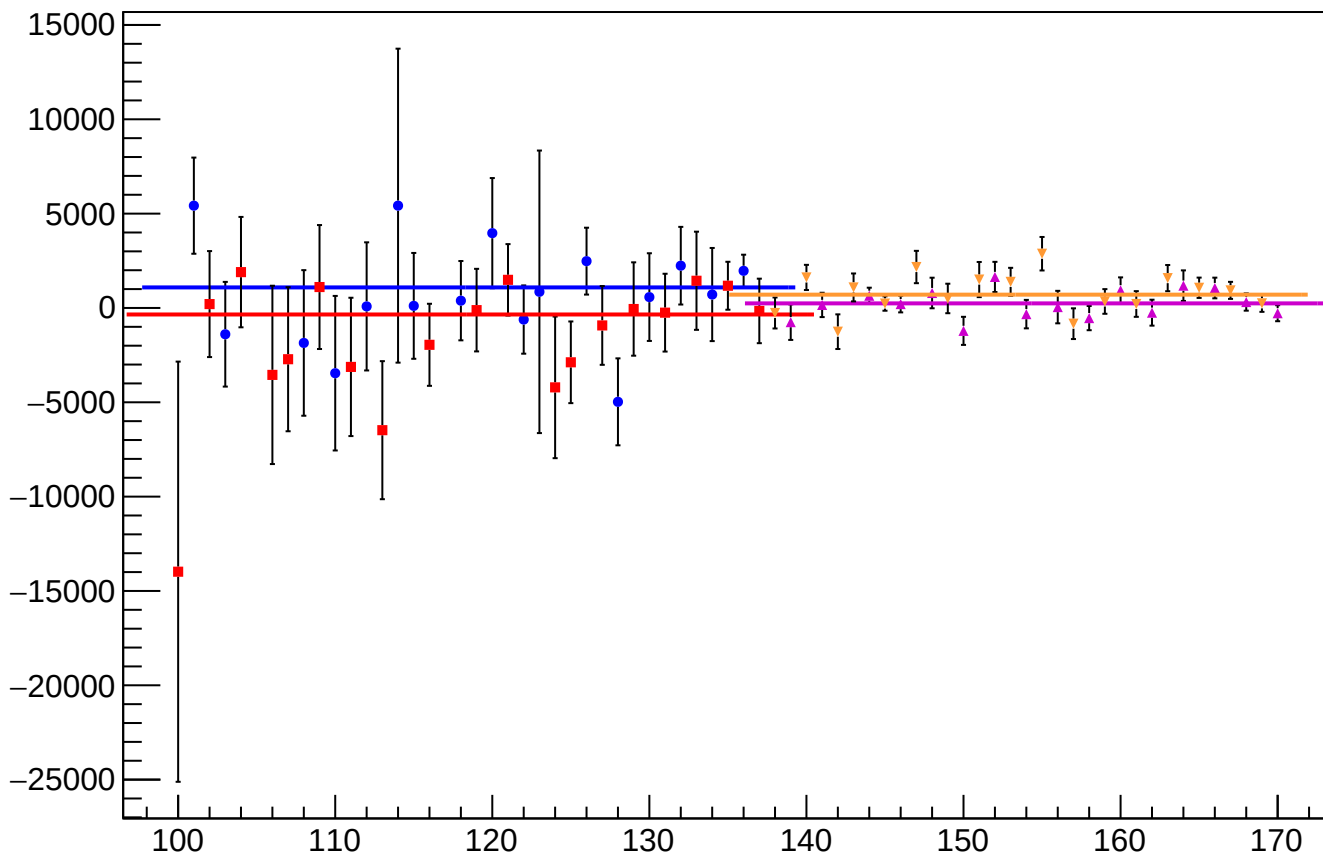
Right: 1289.252 $\pm$ 0.264 χ^2 /NDF: 3570145.2/35

In: 558.840 $\pm$ 0.101 χ^2 /NDF:7234537.6/32

Out: 577.215 $\pm$ 0.103 χ^2 /NDF:8255262.7/35

All: 567.797 $\pm$ 0.072 χ^2 /NDF: 15505981.8/68

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1089.066 $\pm$ 515.272 χ^2 /NDF: 16.9/16

Left Out: 705.283 $\pm$ 153.949 χ^2 /NDF: 27.9/16

Right Out: -345.640 $\pm$ 548.191 χ^2 /NDF: 12.5/18

Left In: 242.950 $\pm$ 150.652 χ^2 /NDF: 18.1/15

Left: 469.112 $\pm$ 107.674 χ^2 /NDF: 50.7/32

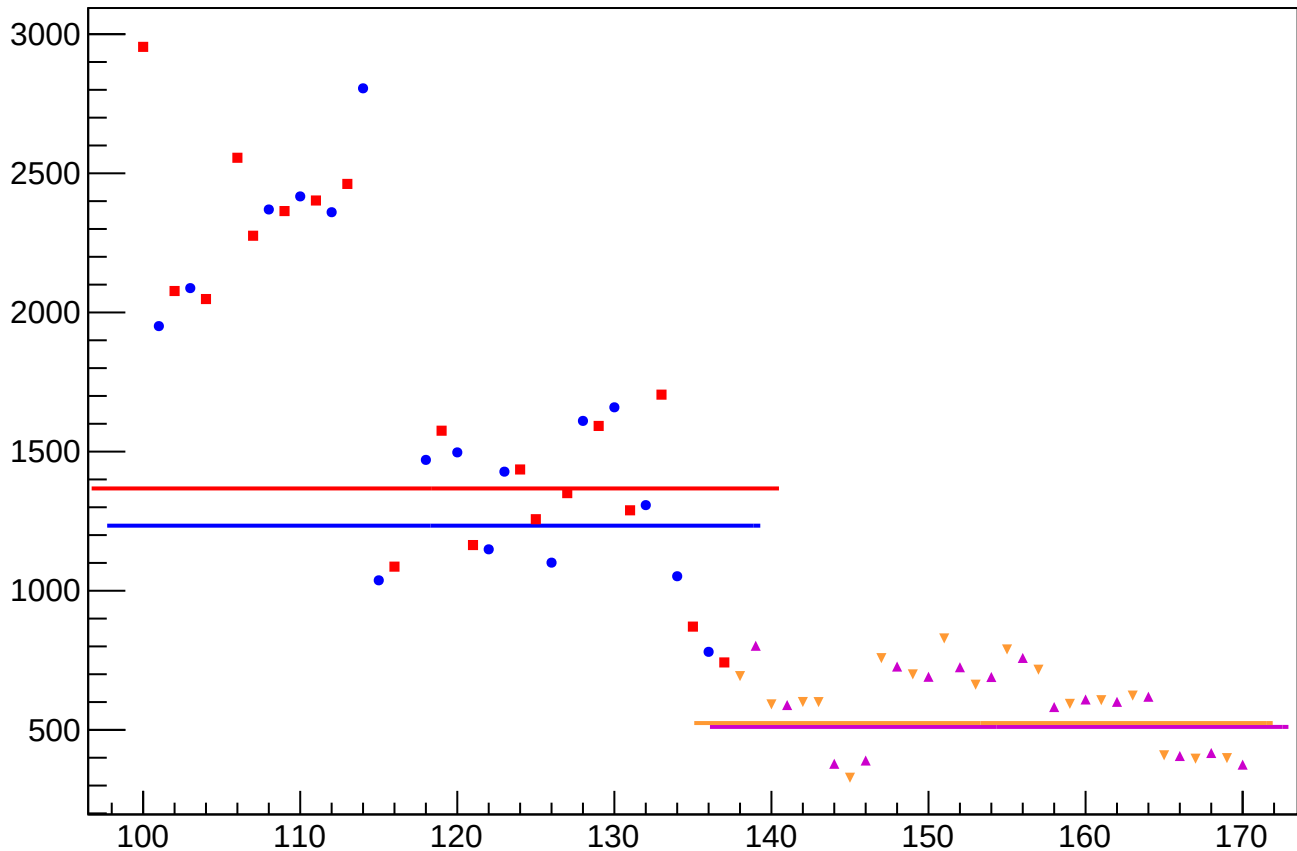
Right: 416.082 $\pm$ 375.451 χ^2 /NDF: 33.1/35

In: 309.582 $\pm$ 144.598 χ^2 /NDF: 37.6/32

Out: 628.460 $\pm$ 148.215 χ^2 /NDF: 43.8/35

All: 465.082 $\pm$ 103.502 χ^2 /NDF: 83.8/68

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1233.863 $\pm$ 0.364 χ^2/NDF : 1744048.5/16

Left Out: 524.568 $\pm$ 0.109 χ^2/NDF : 1990071.8/16

Right Out: 1367.609 $\pm$ 0.388 χ^2/NDF : 1744594.4/18

Left In: 510.738 $\pm$ 0.107 χ^2/NDF : 1745459.8/15

Left: 517.503 $\pm$ 0.076 χ^2/NDF : 3743777.2/32

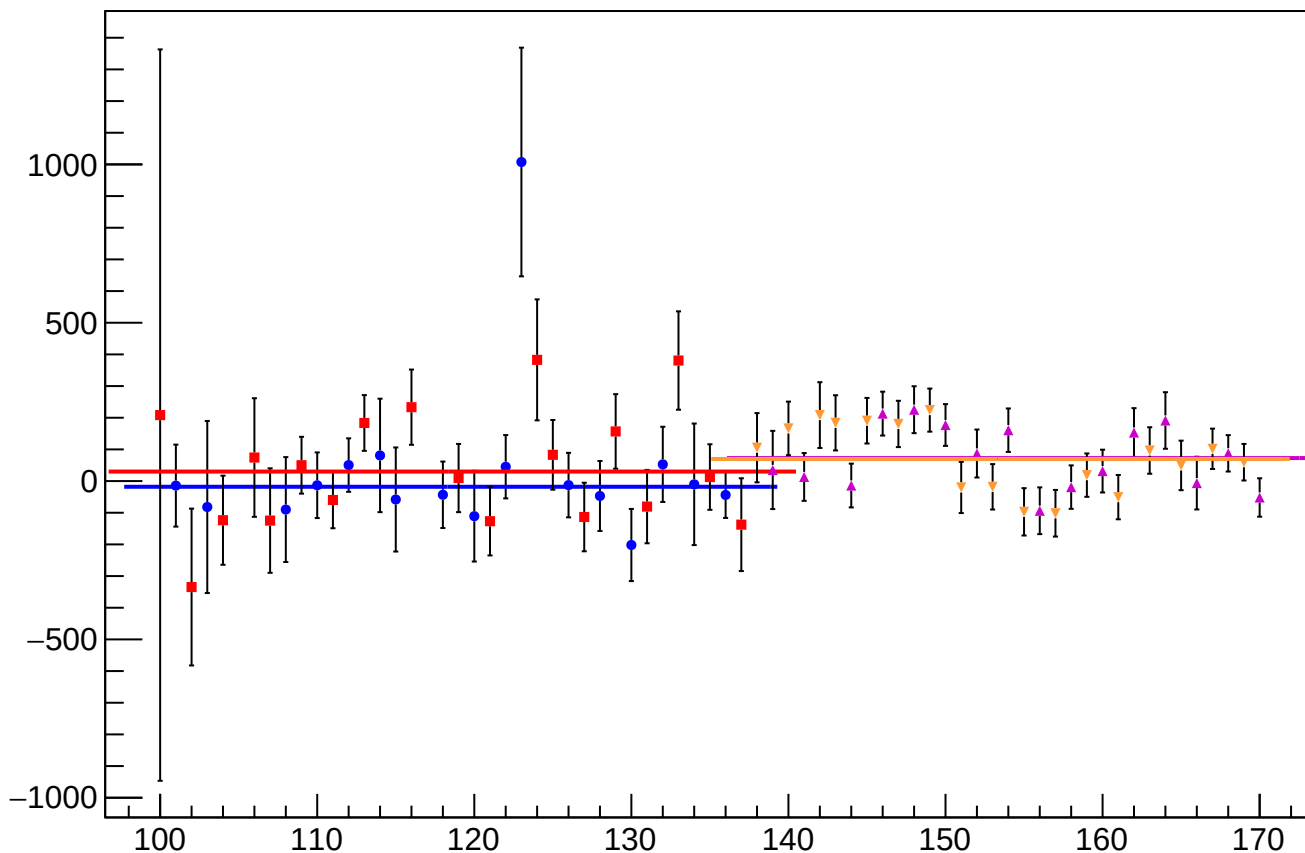
Right: 1296.600 $\pm$ 0.265 χ^2/NDF : 3551849.9/35

In: 567.684 $\pm$ 0.102 χ^2/NDF : 7118290.9/32

Out: 586.195 $\pm$ 0.105 χ^2/NDF : 8118920.8/35

All: 576.711 $\pm$ 0.073 χ^2/NDF : 15253195.3/68

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -17.972 ± 28.848 χ^2/NDF : 13.4/16

Left Out: 69.886 ± 18.056 χ^2/NDF : 32.3/16

Right Out: 30.070 ± 27.976 χ^2/NDF : 27.4/18

Left In: 72.651 ± 18.003 χ^2/NDF : 30.1/15

Left: 71.273 ± 12.749 χ^2/NDF : 62.4/32

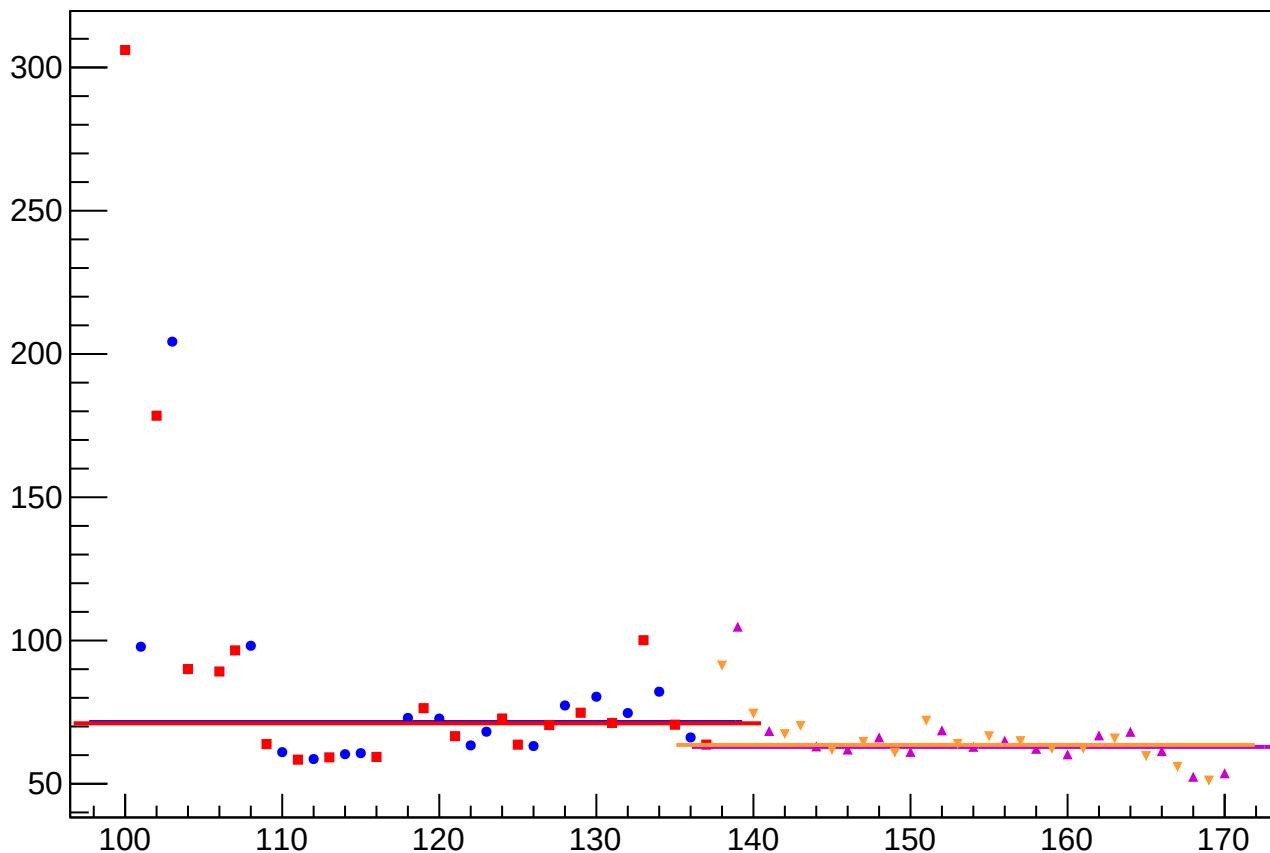
Right: 6.786 ± 20.083 χ^2/NDF : 42.2/35

In: 47.249 ± 15.273 χ^2/NDF : 50.6/32

Out: 58.178 ± 15.171 χ^2/NDF : 61.1/35

All: 52.751 ± 10.763 χ^2/NDF : 112.0/68

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 71.536 $\pm$ 0.020 χ^2 /NDF: 758961.6/16

Left Out: 63.572 $\pm$ 0.013 χ^2 /NDF: 336928.3/16

Right Out: 71.115 $\pm$ 0.020 χ^2 /NDF: 765159.2/18

Left In: 62.874 $\pm$ 0.013 χ^2 /NDF: 389099.4/15

Left: 63.222 $\pm$ 0.009 χ^2 /NDF: 727529.7/32

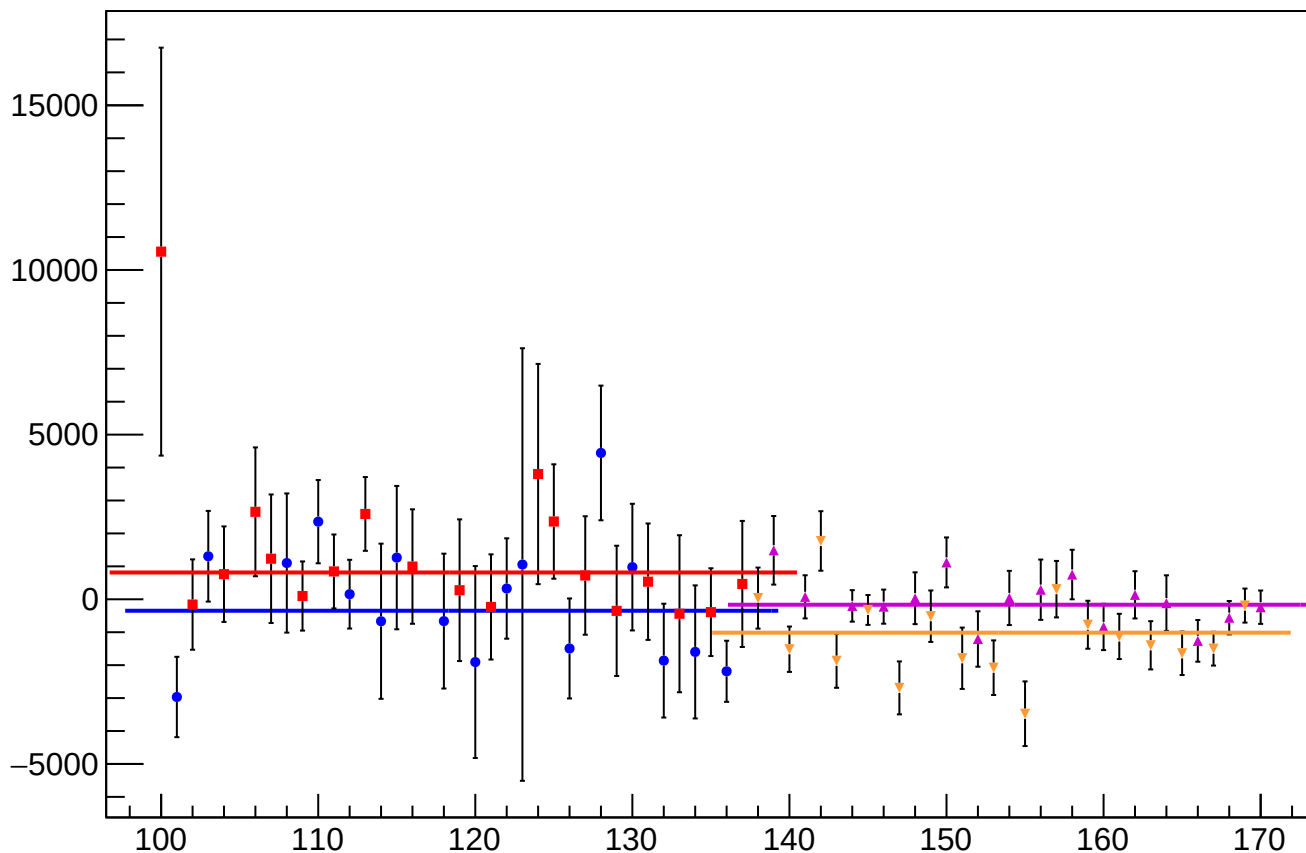
Right: 71.319 $\pm$ 0.014 χ^2 /NDF: 1524340.2/35

In: 65.302 $\pm$ 0.011 χ^2 /NDF: 1277843.9/32

Out: 65.790 $\pm$ 0.011 χ^2 /NDF: 1204716.9/35

All: 65.548 $\pm$ 0.008 χ^2 /NDF: 2483591.1/68

asym_sam_37_avg_correction_mean vs Slug, Sign Corrected



Right In: -347.939 ± 381.994 χ^2/NDF : 24.1/16

Left Out: -1013.918 ± 169.640 χ^2/NDF : 35.2/16

Right Out: 814.154 ± 369.807 χ^2/NDF : 10.5/18

Left In: -165.347 ± 166.215 χ^2/NDF : 13.7/15

Left: -580.980 ± 118.724 χ^2/NDF : 61.6/32

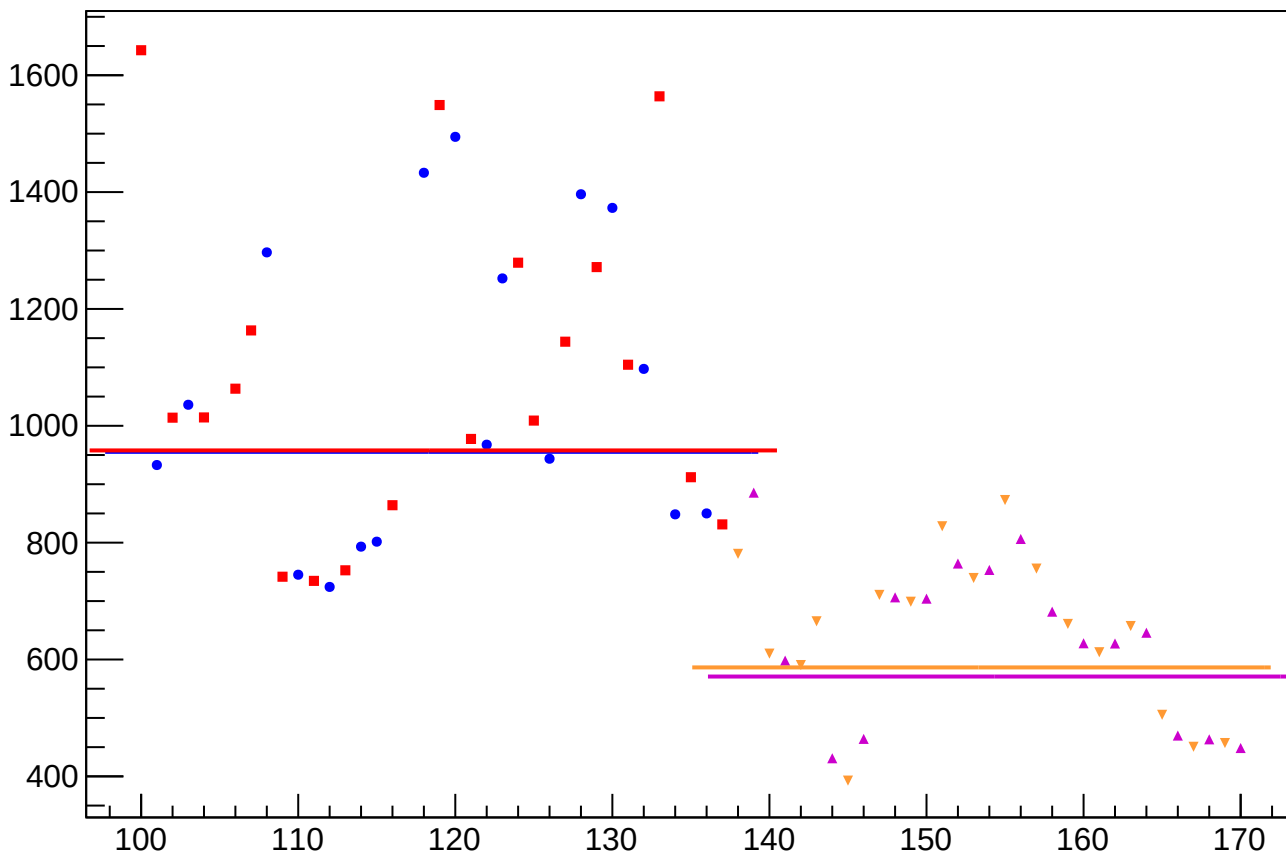
Right: 251.940 ± 265.697 χ^2/NDF : 39.3/35

In: -194.414 ± 152.412 χ^2/NDF : 37.9/32

Out: -696.114 ± 154.191 χ^2/NDF : 65.9/35

All: -442.354 ± 108.395 χ^2/NDF : 109.2/68

asym_sam_37_avg_correction_rms vs Slug, Sign Corrected



Right In: 955.425+/-0.270 χ^2/NDF : 646512.4/16

Left Out: 586.467+/-0.120 χ^2/NDF : 1352976.0/16

Right Out: 957.849+/-0.261 χ^2/NDF : 693081.8/18

Left In: 570.856+/-0.118 χ^2/NDF : 1241483.2/15

Left: 578.502+/-0.084 χ^2/NDF : 2603100.4/32

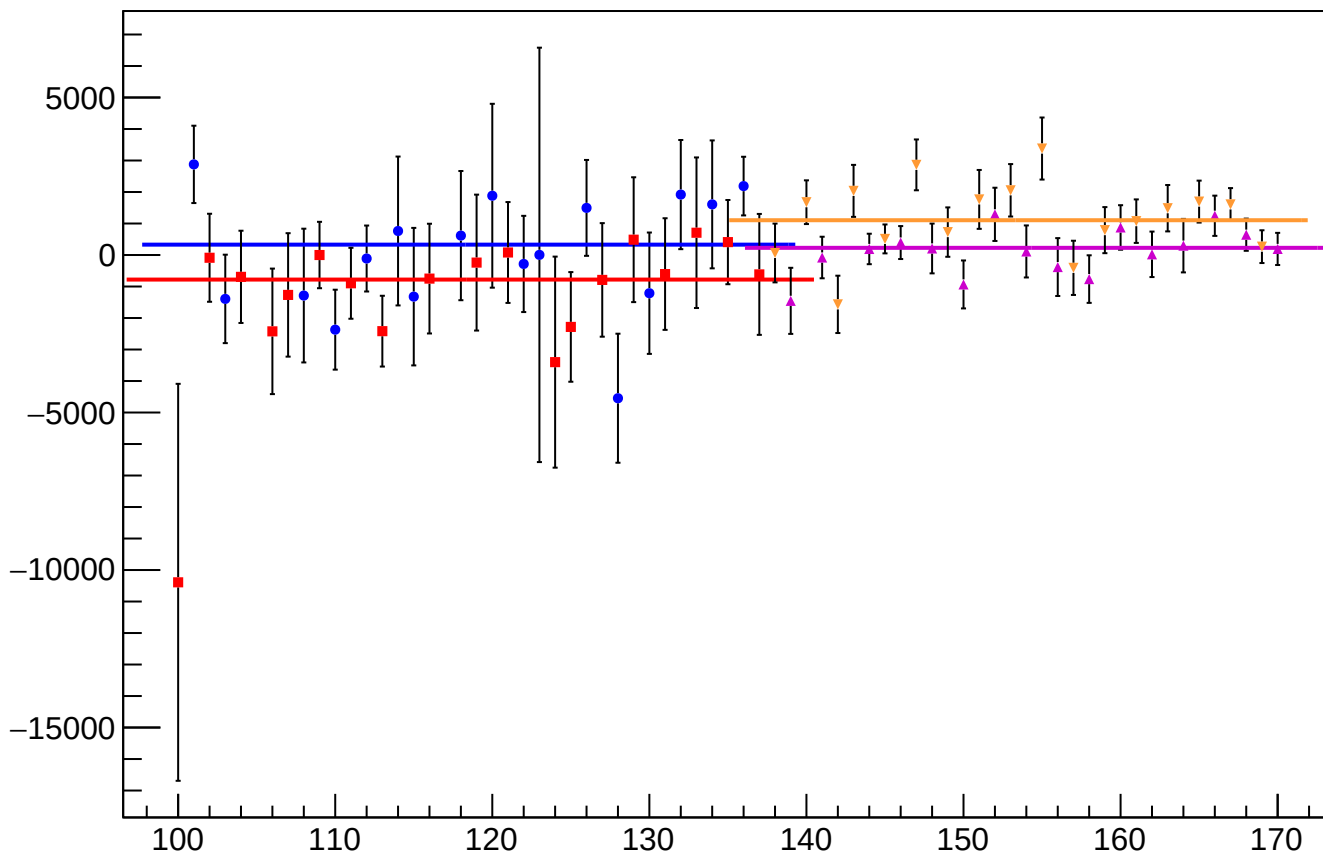
Right: 956.676+/-0.188 χ^2/NDF : 1339635.8/35

In: 632.077+/-0.108 χ^2/NDF : 3592365.8/32

Out: 651.030+/-0.109 χ^2/NDF : 3712466.7/35

All: 641.443+/-0.077 χ^2/NDF : 7320117.8/68

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 329.164+/-383.728 χ^2/NDF : 24.3/16

Left Out: 1104.349+/-170.785 χ^2/NDF :33.5/16

Right Out: -779.623+/-371.673 χ^2/NDF : 9.3/18

Left In: 227.744+/-167.361 χ^2/NDF :13.1/15

Left: 657.172+/-119.534 χ^2/NDF : 60.1/32

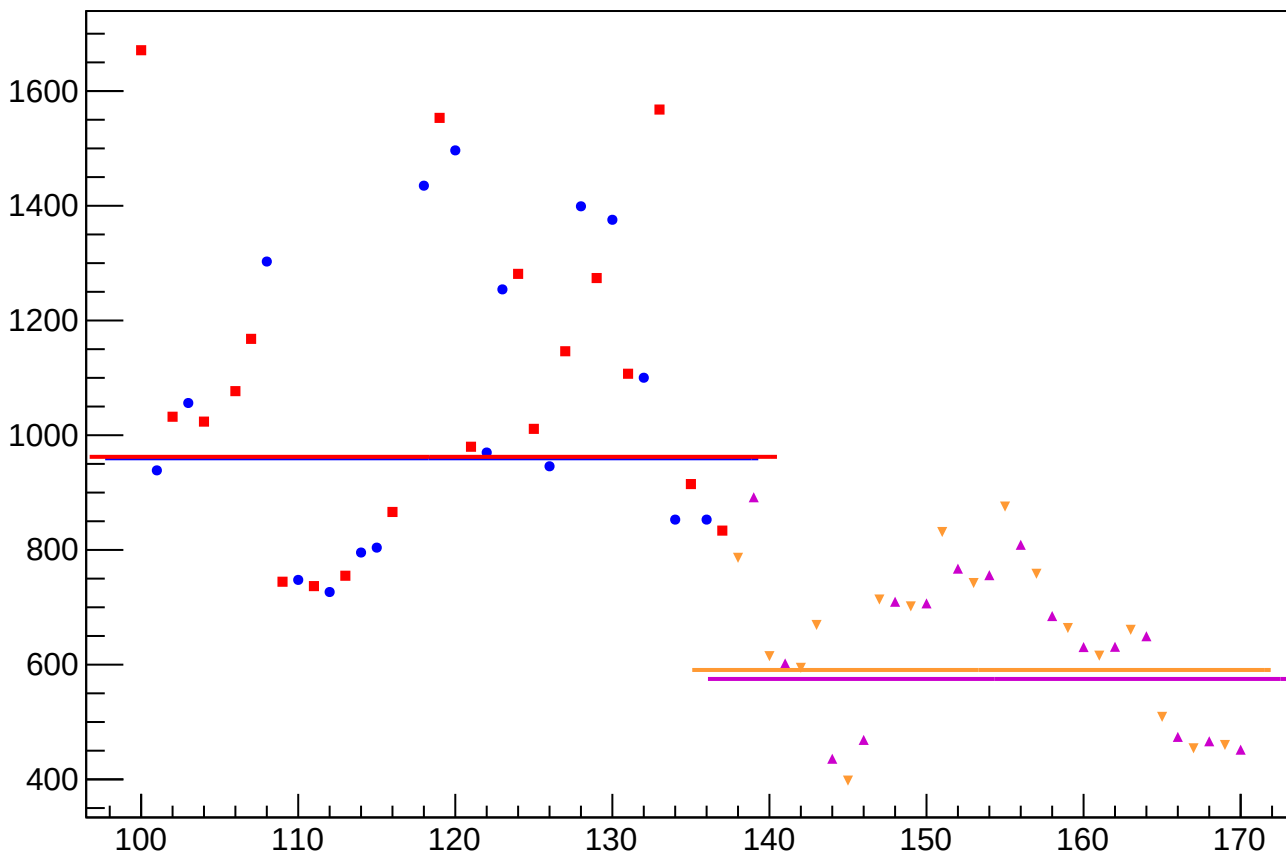
Right: -242.920+/-266.973 χ^2/NDF : 37.9/35

In: 243.953+/-153.405 χ^2/NDF :37.5/32

Out: 775.909+/-155.186 χ^2/NDF :64.0/35

All: 506.862+/-109.098 χ^2/NDF : 107.4/68

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 959.770 $\pm$ 0.271 χ^2 /NDF: 646727.9/16

Left Out: 590.738 $\pm$ 0.121 χ^2 /NDF:1326850.4/16

Right Out: 962.314 $\pm$ 0.263 χ^2 /NDF: 695757.2/18

Left In: 575.070 $\pm$ 0.118 χ^2 /NDF:1220121.4/15

Left: 582.746 $\pm$ 0.085 χ^2 /NDF: 2555558.1/32

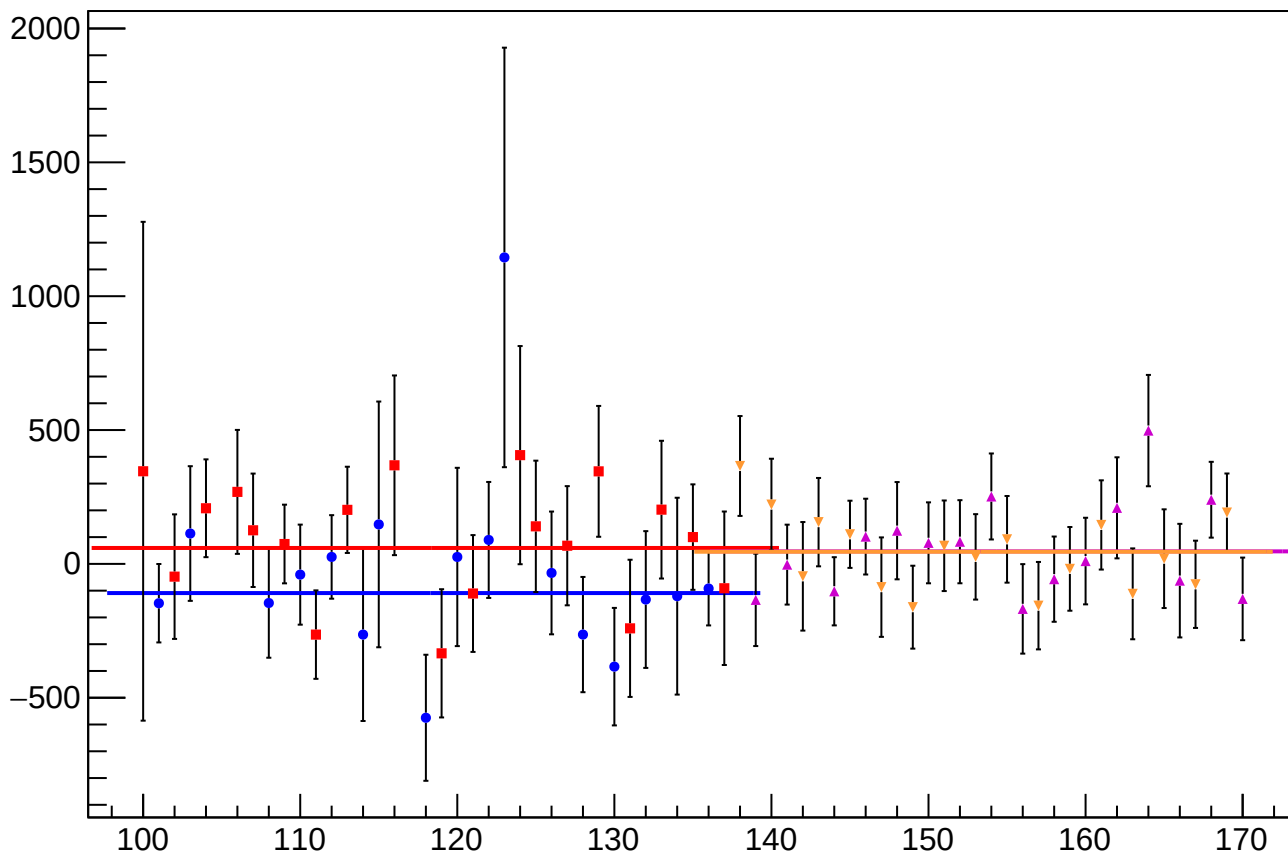
Right: 961.083 $\pm$ 0.189 χ^2 /NDF: 1342530.4/35

In: 636.553 $\pm$ 0.108 χ^2 /NDF:3555729.9/32

Out: 655.516 $\pm$ 0.110 χ^2 /NDF:3673078.3/35

All: 645.925 $\pm$ 0.077 χ^2 /NDF: 7243911.8/68

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -108.977 ± 52.923 $\chi^2/\text{NDF}: 12.0/16$

Left Out: 45.412 ± 39.728 $\chi^2/\text{NDF}: 11.8/16$

Right Out: 59.475 ± 50.822 $\chi^2/\text{NDF}: 14.9/18$

Left In: 46.775 ± 40.064 $\chi^2/\text{NDF}: 15.7/15$

Left: 46.088 ± 28.210 $\chi^2/\text{NDF}: 27.5/32$

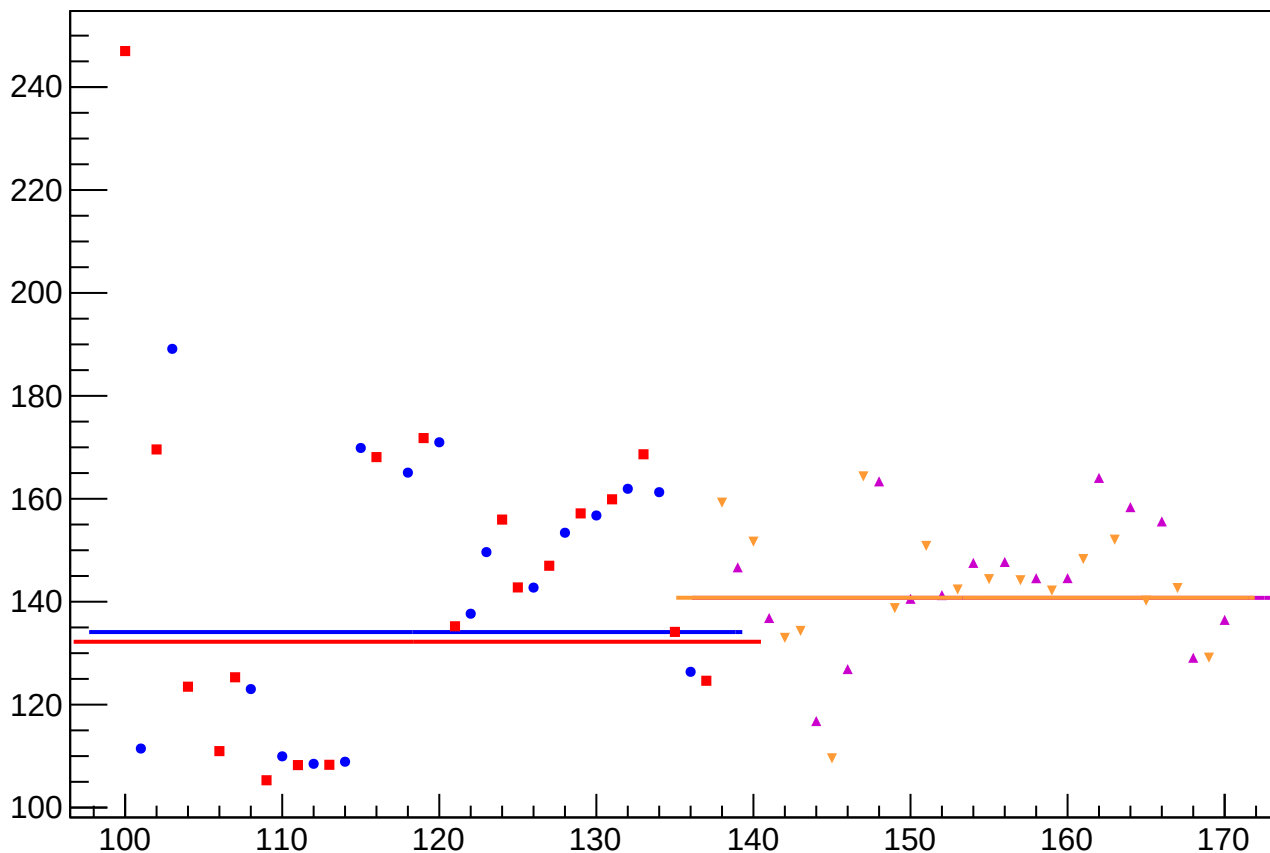
Right: -21.341 ± 36.657 $\chi^2/\text{NDF}: 32.2/35$

In: -9.966 ± 31.943 $\chi^2/\text{NDF}: 33.2/32$

Out: 50.746 ± 31.299 $\chi^2/\text{NDF}: 26.8/35$

All: 21.008 ± 22.356 $\chi^2/\text{NDF}: 61.8/68$

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 134.103 $\pm$ 0.037 χ^2 /NDF: 402581.2/16

Left Out: 140.773 $\pm$ 0.028 χ^2 /NDF:225205.5/16

Right Out: 132.219 $\pm$ 0.036 χ^2 /NDF: 441738.5/18

Left In: 140.750 $\pm$ 0.028 χ^2 /NDF:203626.6/15

Left: 140.762 $\pm$ 0.020 χ^2 /NDF: 428832.5/32

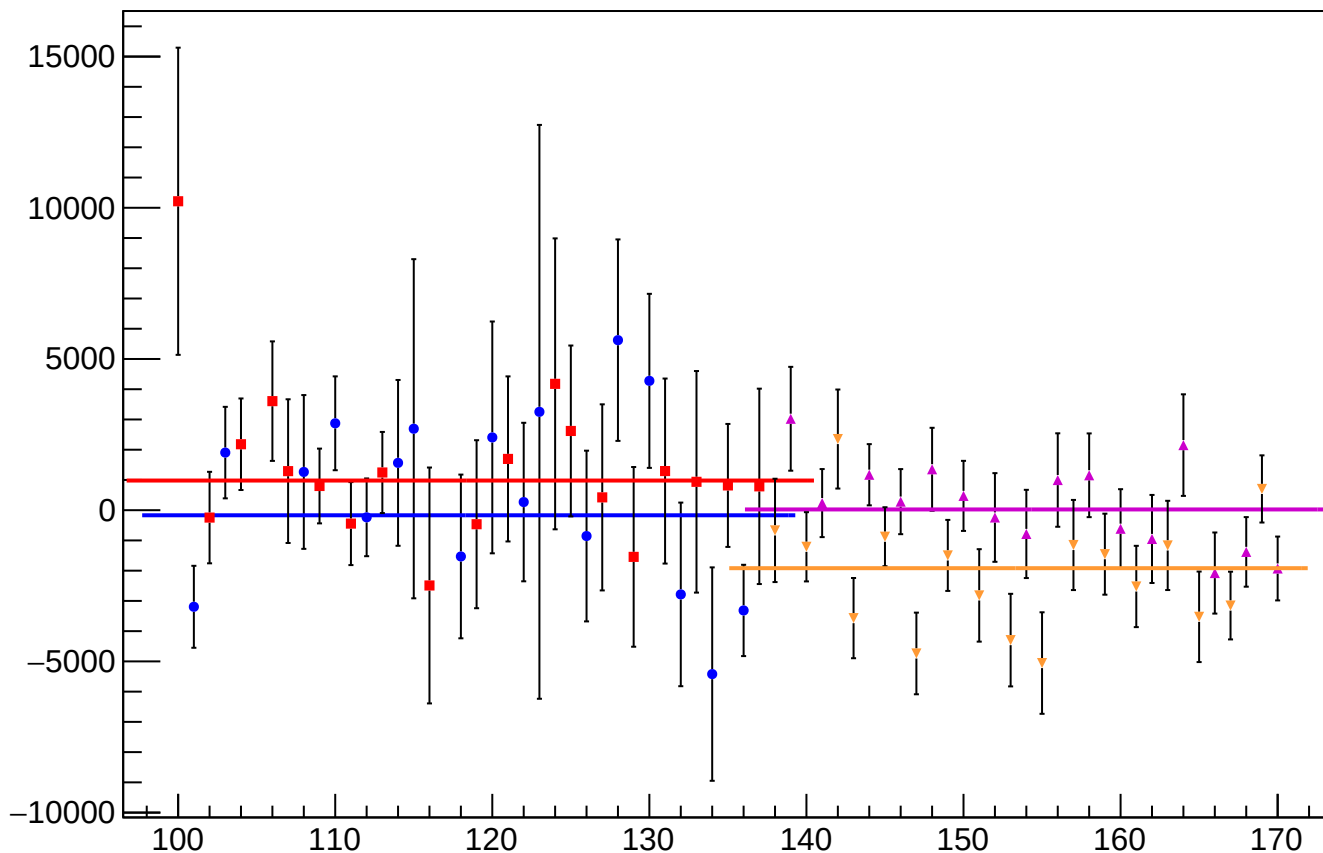
Right: 133.123 $\pm$ 0.026 χ^2 /NDF: 845638.9/35

In: 138.329 $\pm$ 0.023 χ^2 /NDF:626263.0/32

Out: 137.528 $\pm$ 0.022 χ^2 /NDF:702112.2/35

All: 137.920 $\pm$ 0.016 χ^2 /NDF: 1329015.7/68

asym_sam_48_avg_correction_mean vs Slug, Sign Corrected



Right In: -168.237 $\pm$ 523.672 χ^2 /NDF: 25.3/16

Left Out: -1917.708 $\pm$ 321.776 χ^2 /NDF:29.9/16

Right Out: 980.517 $\pm$ 480.968 χ^2 /NDF: 10.2/18

Left In: 24.514 $\pm$ 320.403 χ^2 /NDF:16.6/15

Left: -942.445 $\pm$ 227.043 χ^2 /NDF: 64.8/32

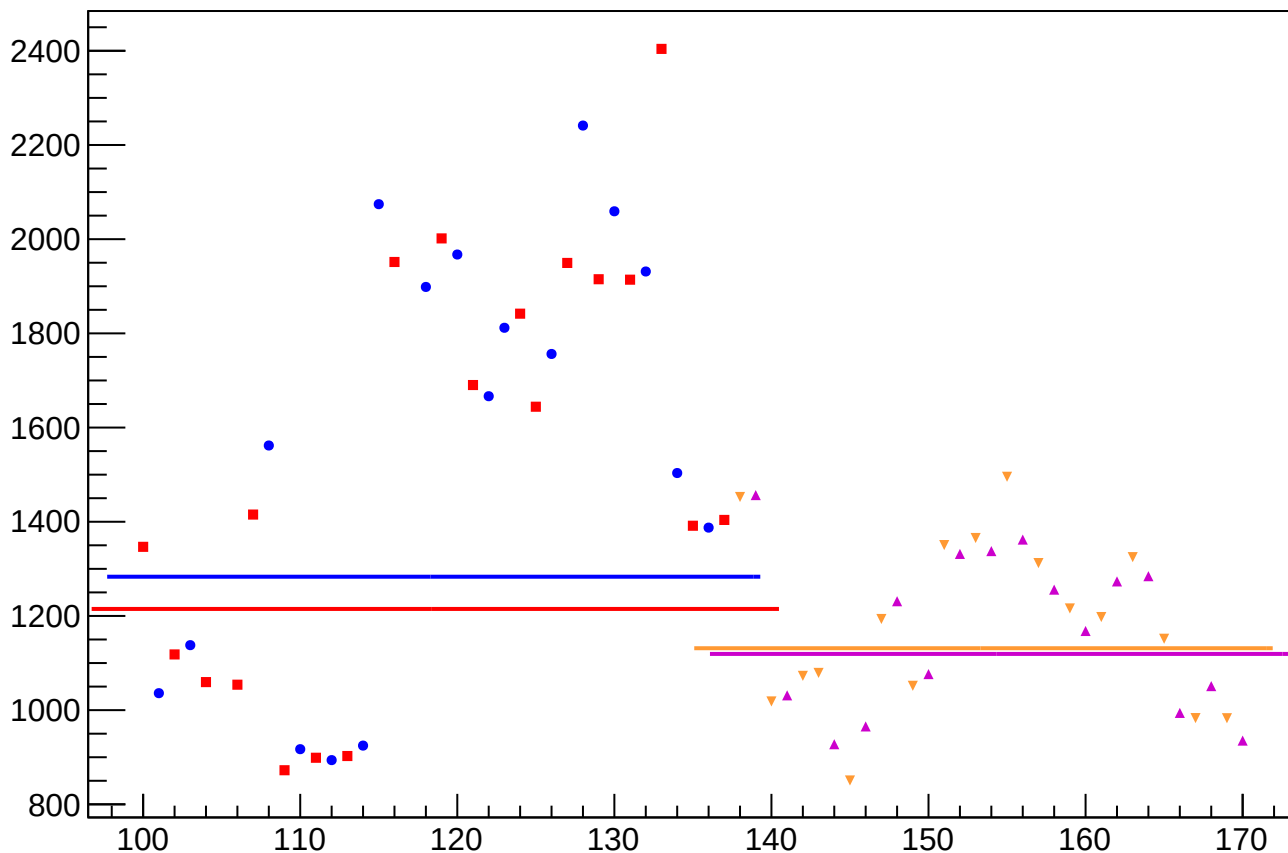
Right: 454.882 $\pm$ 354.232 χ^2 /NDF: 38.1/35

In: -27.988 $\pm$ 273.306 χ^2 /NDF:42.0/32

Out: -1021.594 $\pm$ 267.443 χ^2 /NDF:65.2/35

All: -535.562 $\pm$ 191.150 χ^2 /NDF: 114.0/68

asym_sam_48_avg_correction_rms vs Slug, Sign Corrected



Right In: 1283.318+/-0.370 χ^2/NDF : 1169431.5/16

Left Out: 1131.445+/-0.228 χ^2/NDF : 605062.6/16

Right Out: 1214.883+/-0.340 χ^2/NDF : 1360860.3/18

Left In: 1119.368+/-0.227 χ^2/NDF : 503469.4/15

Left: 1125.381+/-0.161 χ^2/NDF : 1109946.7/32

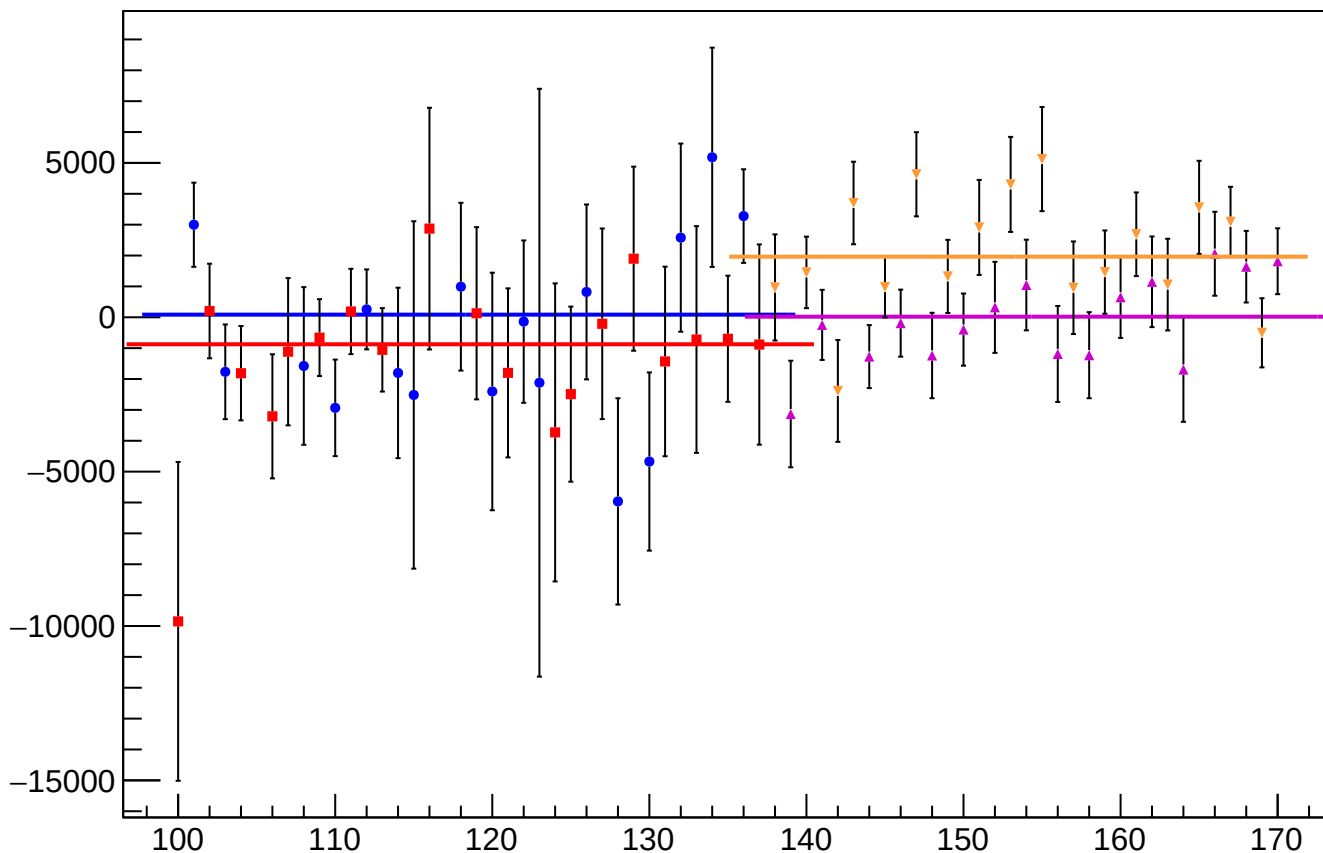
Right: 1246.197+/-0.250 χ^2/NDF : 2548819.1/35

In: 1164.025+/-0.193 χ^2/NDF : 1815538.6/32

Out: 1157.244+/-0.189 χ^2/NDF : 2007502.0/35

All: 1160.561+/-0.135 χ^2/NDF : 3823669.7/68

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 85.077+/-527.082 χ^2/NDF : 24.7/16

Left Out: 1962.908+/-324.407 χ^2/NDF : 28.7/16

Right Out: -874.592+/-484.647 χ^2/NDF : 8.7/18

Left In: 19.210+/-323.083 χ^2/NDF : 16.8/15

Left: 987.085+/-228.921 χ^2/NDF : 63.5/32

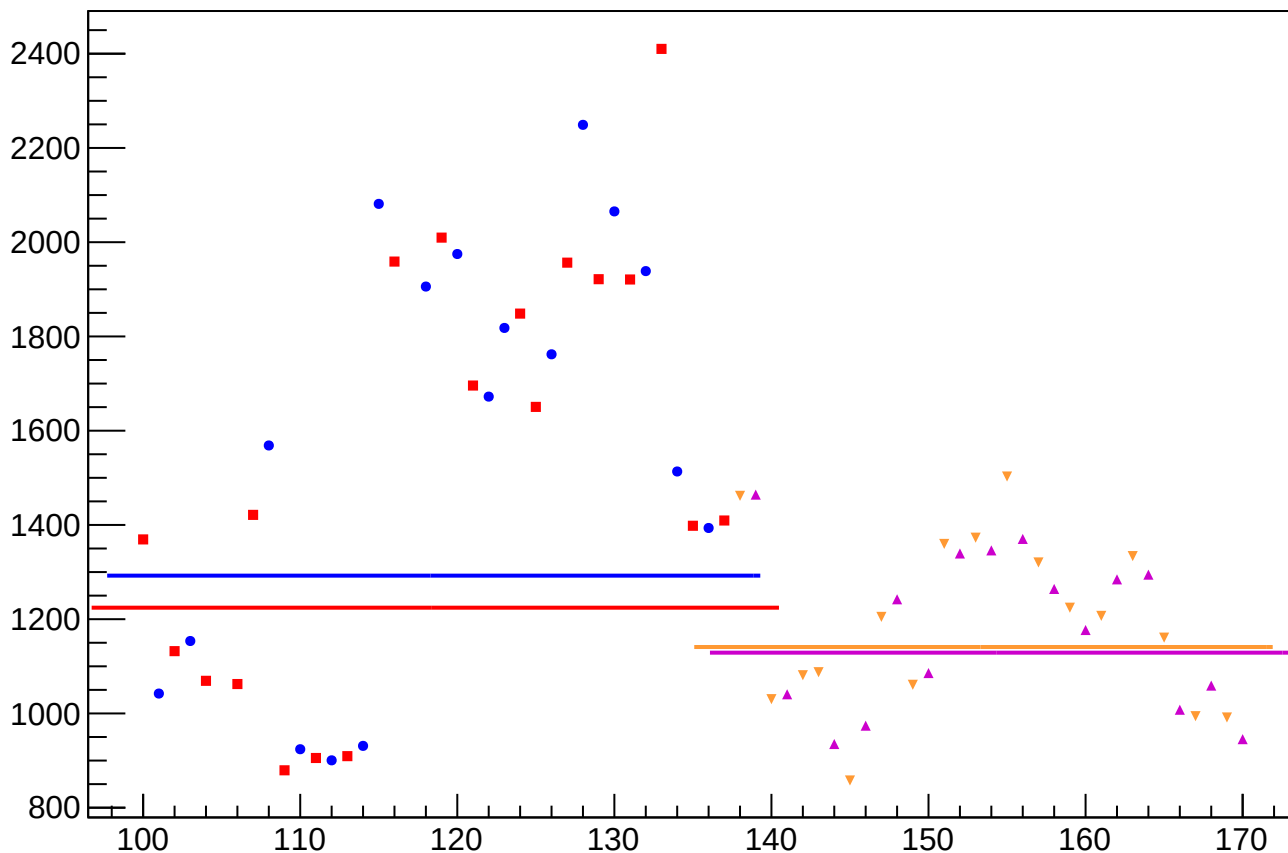
Right: -434.939+/-356.757 χ^2/NDF : 35.2/35

In: 37.199+/-275.454 χ^2/NDF : 41.5/32

Out: 1084.933+/-269.587 χ^2/NDF : 61.1/35

All: 572.343+/-192.667 χ^2/NDF : 110.0/68

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1292.426 $\pm$ 0.373 χ^2/NDF : 1156576.0/16

Left Out: 1140.966 $\pm$ 0.229 χ^2/NDF : 595624.7/16

Right Out: 1224.429 $\pm$ 0.343 χ^2/NDF : 1345748.2/18

Left In: 1128.969 $\pm$ 0.228 χ^2/NDF : 494796.2/15

Left: 1134.943 $\pm$ 0.162 χ^2/NDF : 1091794.2/32

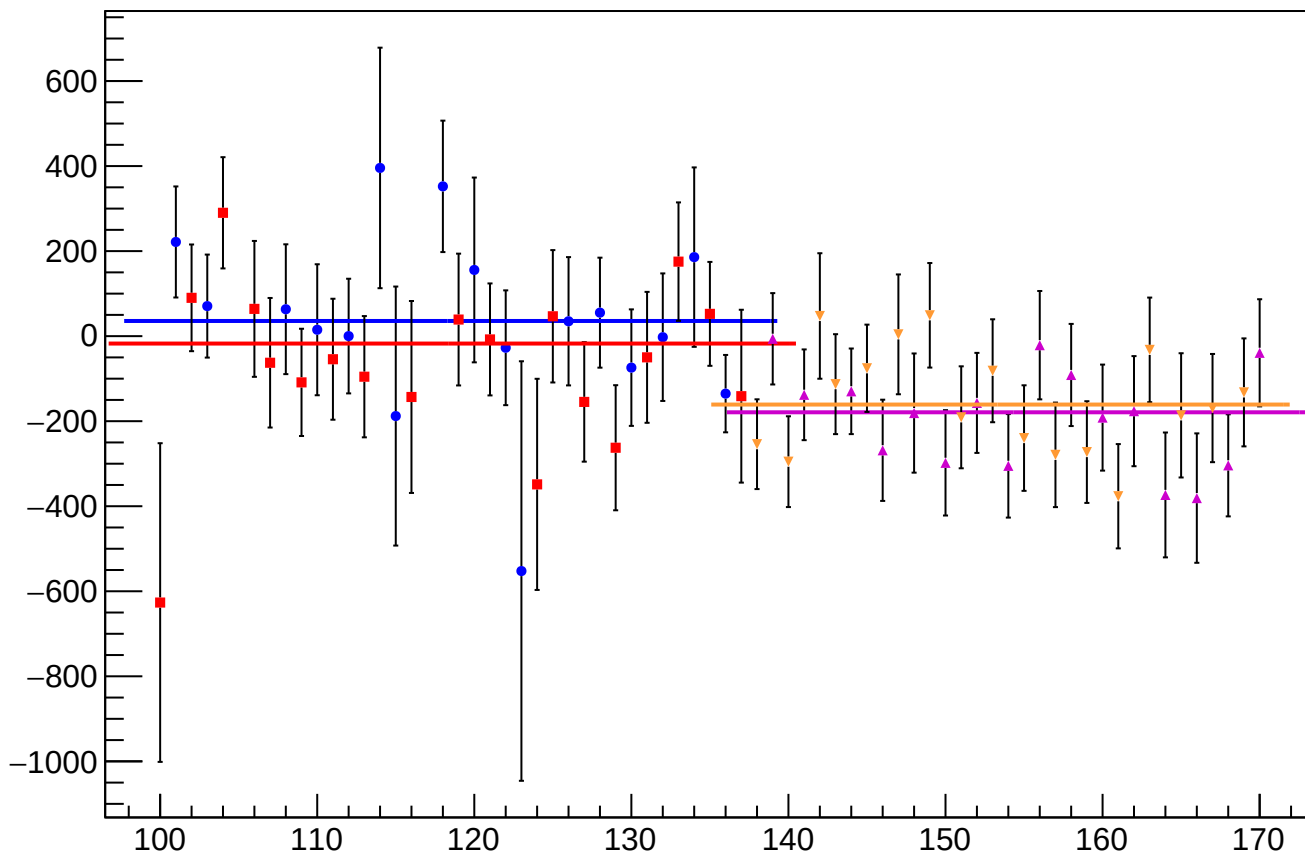
Right: 1255.580 $\pm$ 0.252 χ^2/NDF : 2520360.3/35

In: 1173.611 $\pm$ 0.195 χ^2/NDF : 1791184.6/32

Out: 1166.791 $\pm$ 0.191 χ^2/NDF : 1982335.0/35

All: 1170.128 $\pm$ 0.136 χ^2/NDF : 3774145.7/68

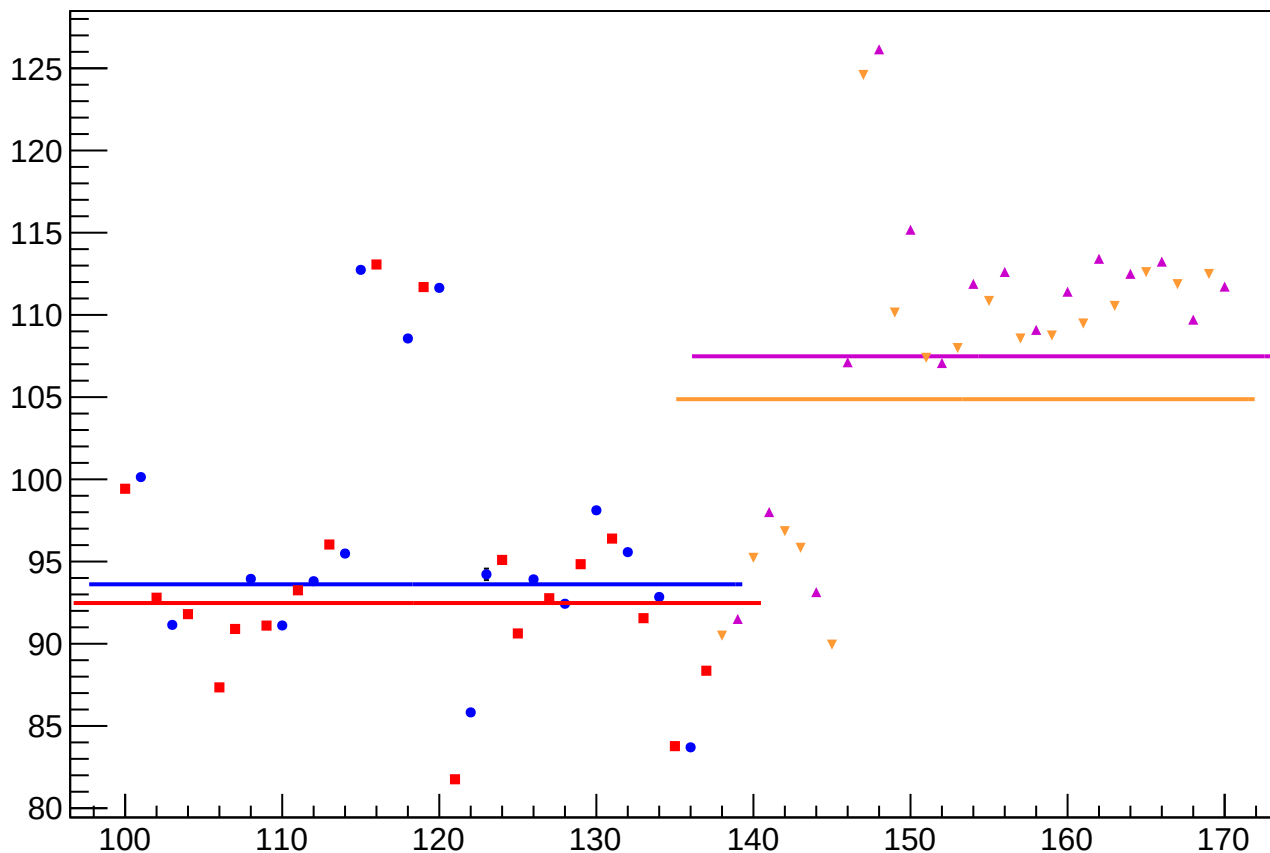
reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 35.679 ± 36.350 $\chi^2/\text{NDF}: 15.3/16$
 Left Out: -160.872 ± 29.499 $\chi^2/\text{NDF}: 16.5/16$
 Right Out: -17.418 ± 34.691 $\chi^2/\text{NDF}: 18.9/18$
 Left In: -179.086 ± 30.480 $\chi^2/\text{NDF}: 13.5/15$

Left: -169.681 ± 21.198 $\chi^2/\text{NDF}: 30.1/32$
 Right: 7.891 ± 25.096 $\chi^2/\text{NDF}: 35.3/35$
 In: -90.422 ± 23.356 $\chi^2/\text{NDF}: 49.3/32$
 Out: -100.672 ± 22.473 $\chi^2/\text{NDF}: 45.3/35$
 All: -95.745 ± 16.194 $\chi^2/\text{NDF}: 94.7/68$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 93.616+/-0.026 χ^2/NDF : 79928.5/16

Left Out: 104.875+/-0.021 χ^2/NDF : 192978.6/16

Right Out: 92.477+/-0.025 χ^2/NDF : 78591.0/18

Left In: 107.483+/-0.022 χ^2/NDF : 164389.9/15

Left: 106.137+/-0.015 χ^2/NDF : 364927.9/32

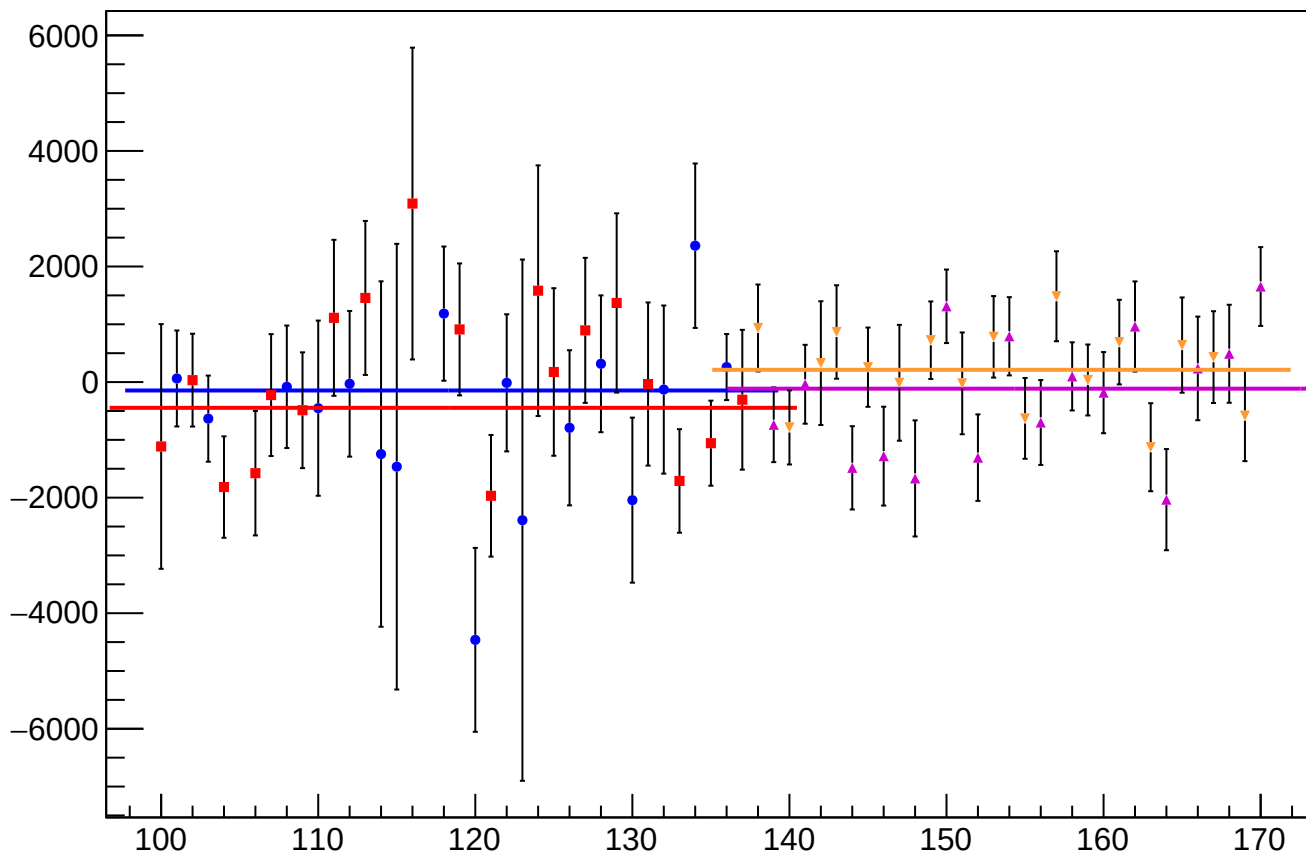
Right: 93.020+/-0.018 χ^2/NDF : 159546.8/35

In: 101.758+/-0.017 χ^2/NDF : 415220.6/32

Out: 99.672+/-0.016 χ^2/NDF : 419822.9/35

All: 100.675+/-0.011 χ^2/NDF : 843325.6/68

asym_sam_15_dd_correction_mean vs Slug, Sign Corrected



Right In: -145.464 $\pm$ 276.629 χ^2 /NDF: 15.5/16

Left Out: 212.429 $\pm$ 183.054 χ^2 /NDF:14.5/16

Right Out: -445.575 $\pm$ 260.276 χ^2 /NDF: 19.0/18

Left In: -114.196 $\pm$ 183.358 χ^2 /NDF:33.0/15

Left: 49.387 $\pm$ 129.546 χ^2 /NDF: 49.1/32

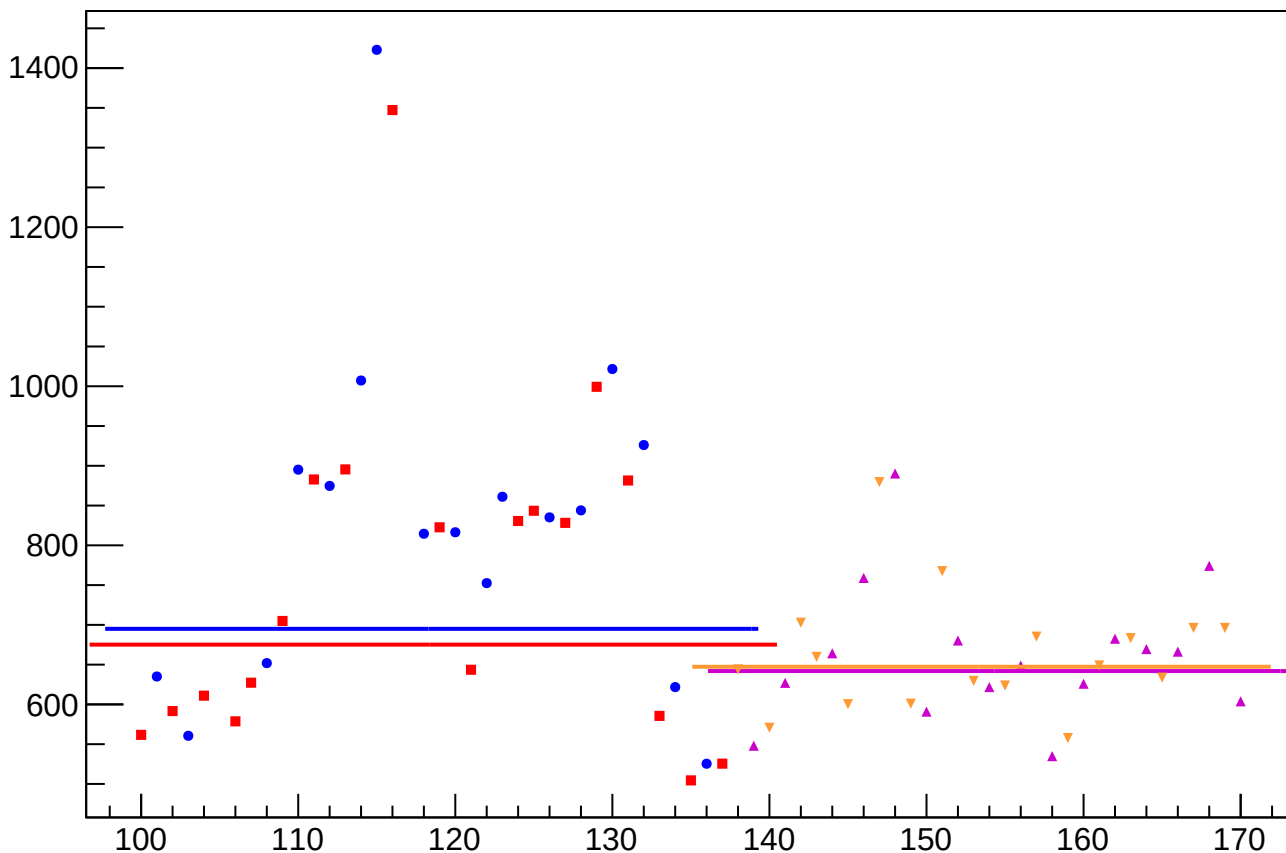
Right: -304.652 $\pm$ 189.560 χ^2 /NDF: 35.1/35

In: -123.740 $\pm$ 152.833 χ^2 /NDF:48.5/32

Out: -5.334 $\pm$ 149.731 χ^2 /NDF:37.7/35

All: -63.323 $\pm$ 106.956 χ^2 /NDF: 86.5/68

asym_sam_15_dd_correction_rms vs Slug, Sign Corrected



Right In: 695.014 $\pm$ 0.196 χ^2 /NDF: 677713.0/16

Left Out: 647.339 $\pm$ 0.129 χ^2 /NDF: 269133.2/16

Right Out: 675.151 $\pm$ 0.184 χ^2 /NDF: 676394.1/18

Left In: 641.918 $\pm$ 0.130 χ^2 /NDF: 355462.5/15

Left: 644.633 $\pm$ 0.092 χ^2 /NDF: 625471.3/32

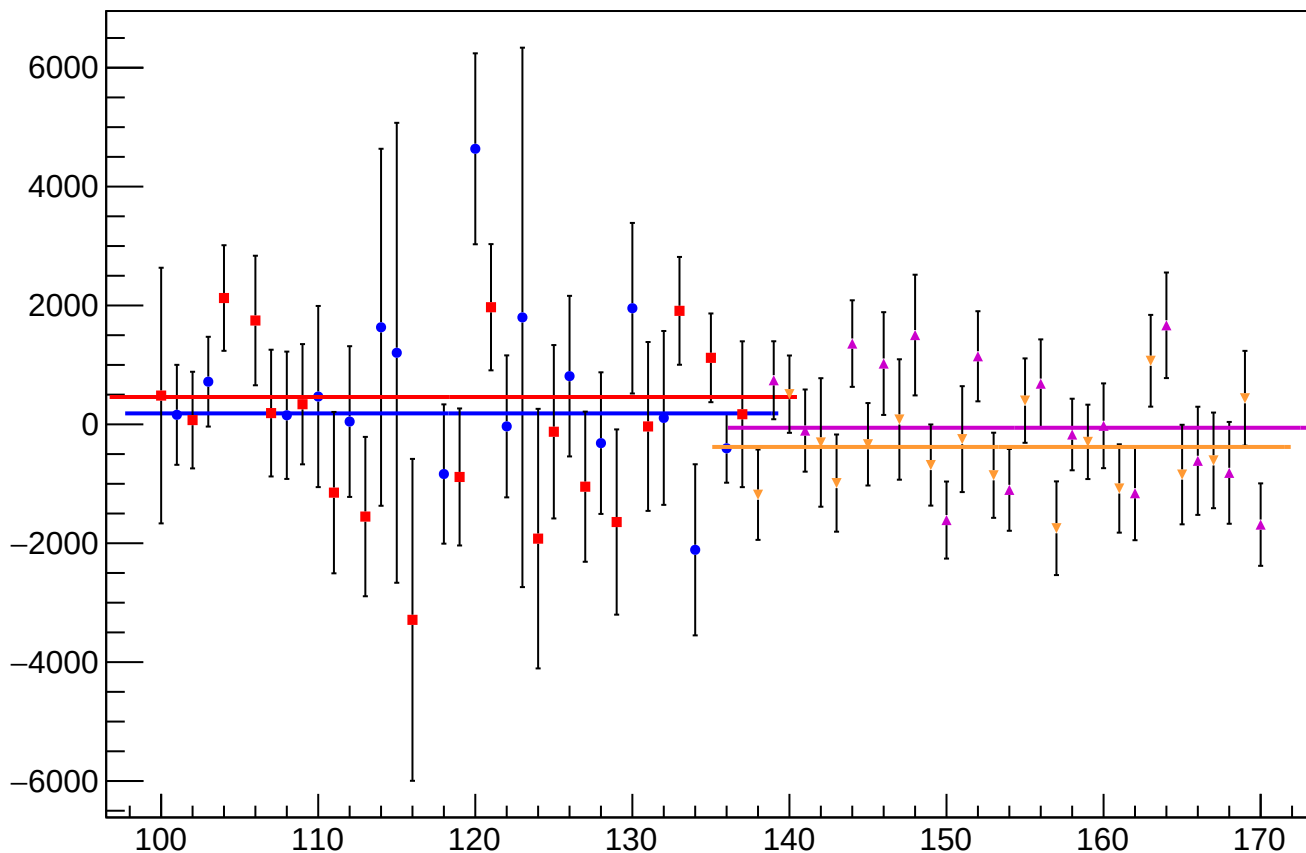
Right: 684.478 $\pm$ 0.134 χ^2 /NDF: 1359576.7/35

In: 658.125 $\pm$ 0.108 χ^2 /NDF: 1084367.1/32

Out: 656.543 $\pm$ 0.106 χ^2 /NDF: 960806.3/35

All: 657.318 $\pm$ 0.076 χ^2 /NDF: 2045282.7/68

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 184.518 ± 279.390 χ^2/NDF : 14.9/16

Left Out: -379.989 ± 185.572 χ^2/NDF : 14.5/16

Right Out: 460.174 ± 262.960 χ^2/NDF : 22.3/18

Left In: -57.313 ± 186.056 χ^2/NDF : 33.2/15

Left: -219.072 ± 131.390 χ^2/NDF : 49.2/32

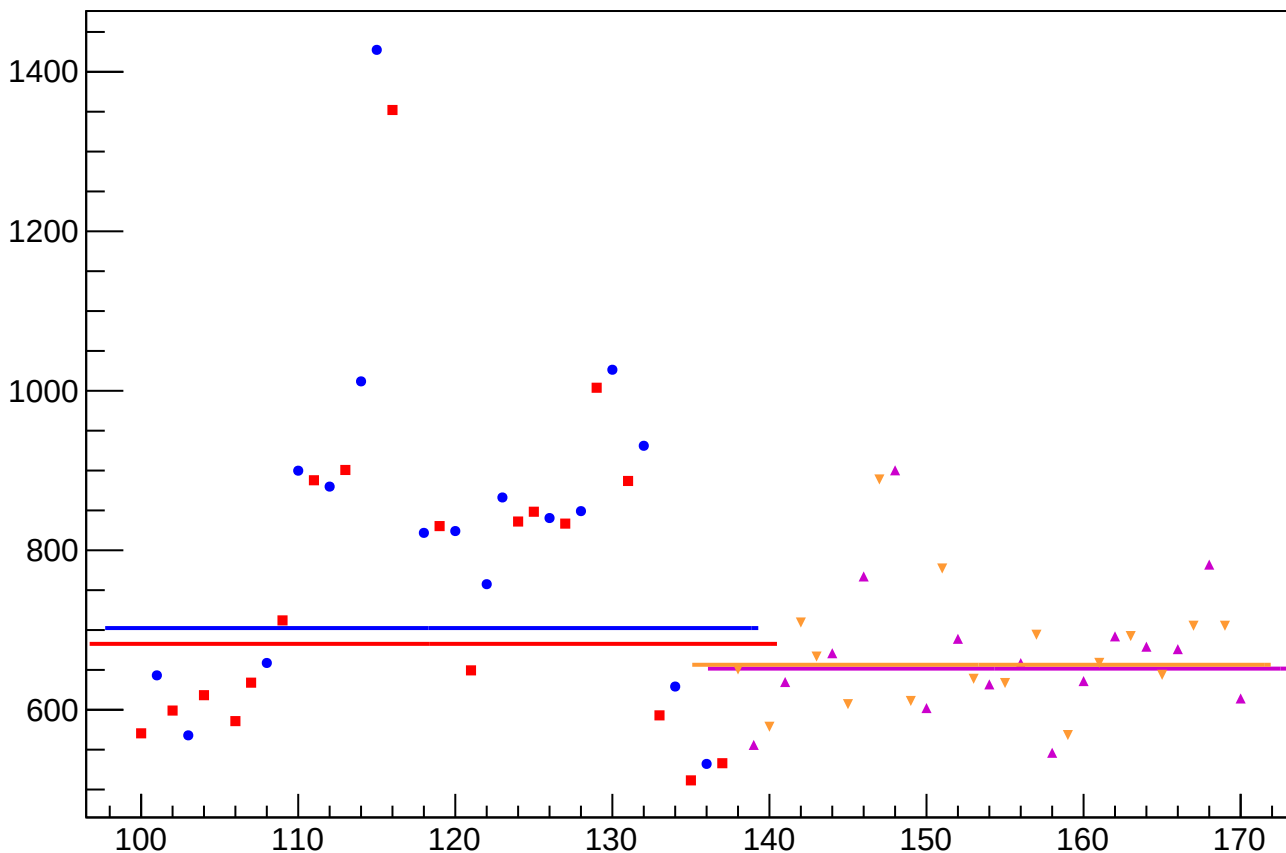
Right: 330.689 ± 191.486 χ^2/NDF : 37.7/35

In: 16.983 ± 154.860 χ^2/NDF : 48.6/32

Out: -100.676 ± 151.619 χ^2/NDF : 43.6/35

All: -43.091 ± 108.338 χ^2/NDF : 92.5/68

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 702.469 $\pm$ 0.198 χ^2 /NDF: 660525.4/16

Left Out: 656.450 $\pm$ 0.131 χ^2 /NDF: 262101.2/16

Right Out: 682.662 $\pm$ 0.186 χ^2 /NDF: 659521.7/18

Left In: 651.627 $\pm$ 0.132 χ^2 /NDF: 342412.7/15

Left: 654.045 $\pm$ 0.093 χ^2 /NDF: 605187.6/32

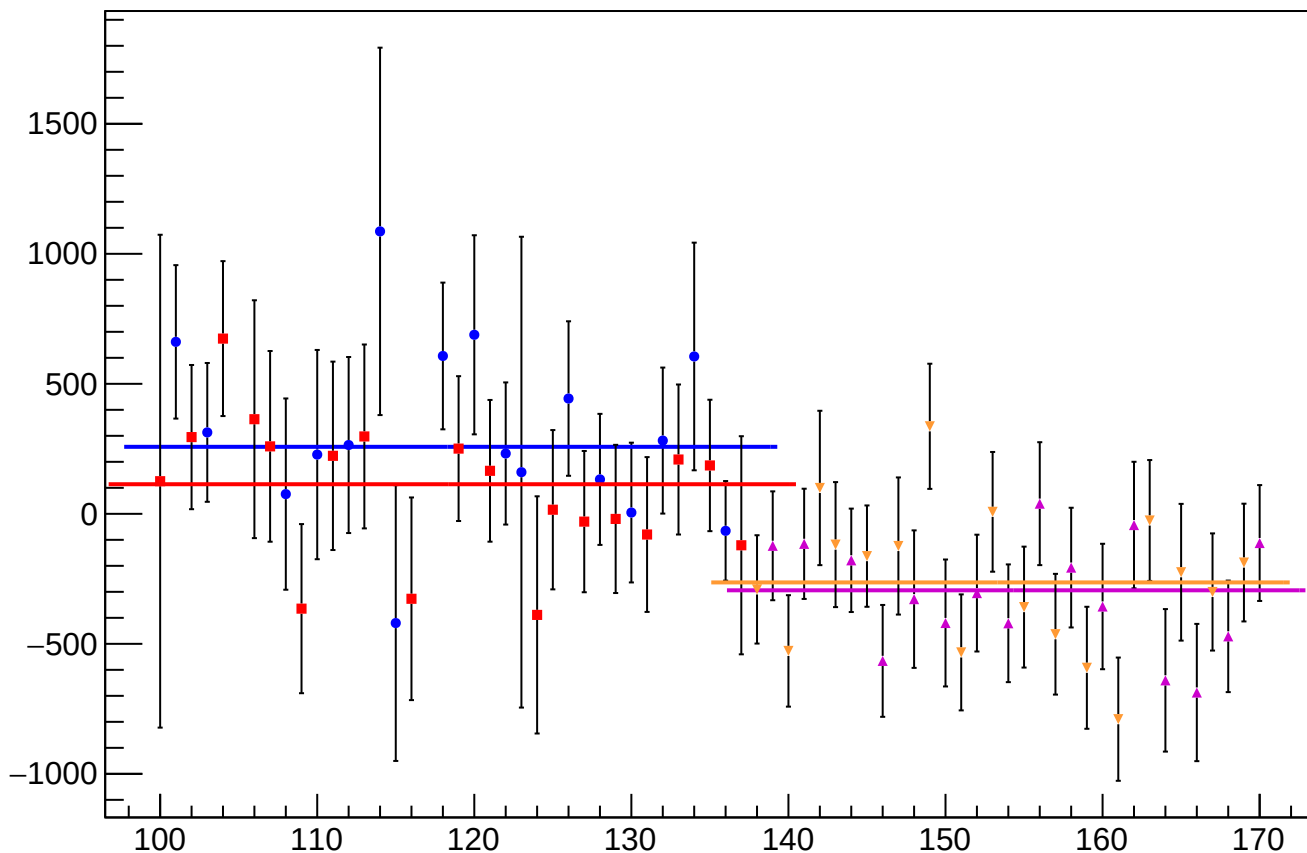
Right: 691.966 $\pm$ 0.135 χ^2 /NDF: 1325377.5/35

In: 667.247 $\pm$ 0.110 χ^2 /NDF: 1048820.1/32

Out: 665.164 $\pm$ 0.107 χ^2 /NDF: 934888.2/35

All: 666.184 $\pm$ 0.077 χ^2 /NDF: 1983893.0/68

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 257.721 $\pm$ 75.931 χ^2 /NDF: 13.0/16

Left Out: -263.802 $\pm$ 56.291 χ^2 /NDF:22.0/16

Right Out: 113.851 $\pm$ 74.211 χ^2 /NDF: 11.2/18

Left In: -294.134 $\pm$ 57.471 χ^2 /NDF:12.3/15

Left: -278.654 $\pm$ 40.215 χ^2 /NDF: 34.5/32

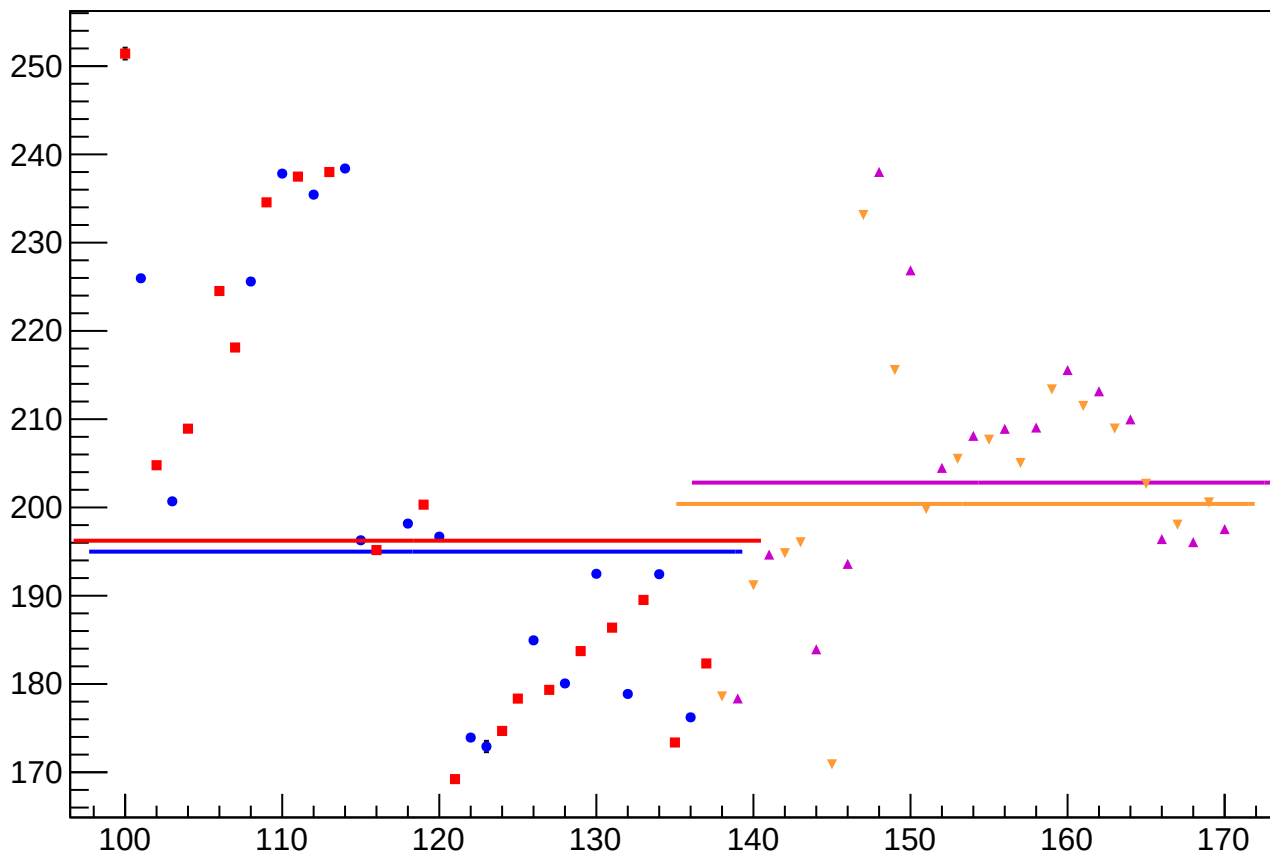
Right: 184.138 $\pm$ 53.073 χ^2 /NDF: 26.1/35

In: -93.136 $\pm$ 45.825 χ^2 /NDF:58.9/32

Out: -125.874 $\pm$ 44.849 χ^2 /NDF:49.7/35

All: -109.858 $\pm$ 32.052 χ^2 /NDF: 108.9/68

reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 194.994 ± 0.054 χ^2/NDF : 144271.1/16

Left Out: 200.402 ± 0.040 χ^2/NDF : 128919.3/16

Right Out: 196.235 ± 0.052 χ^2/NDF : 173491.6/18

Left In: 202.814 ± 0.041 χ^2/NDF : 125615.2/15

Left: 201.583 ± 0.028 χ^2/NDF : 256333.4/32

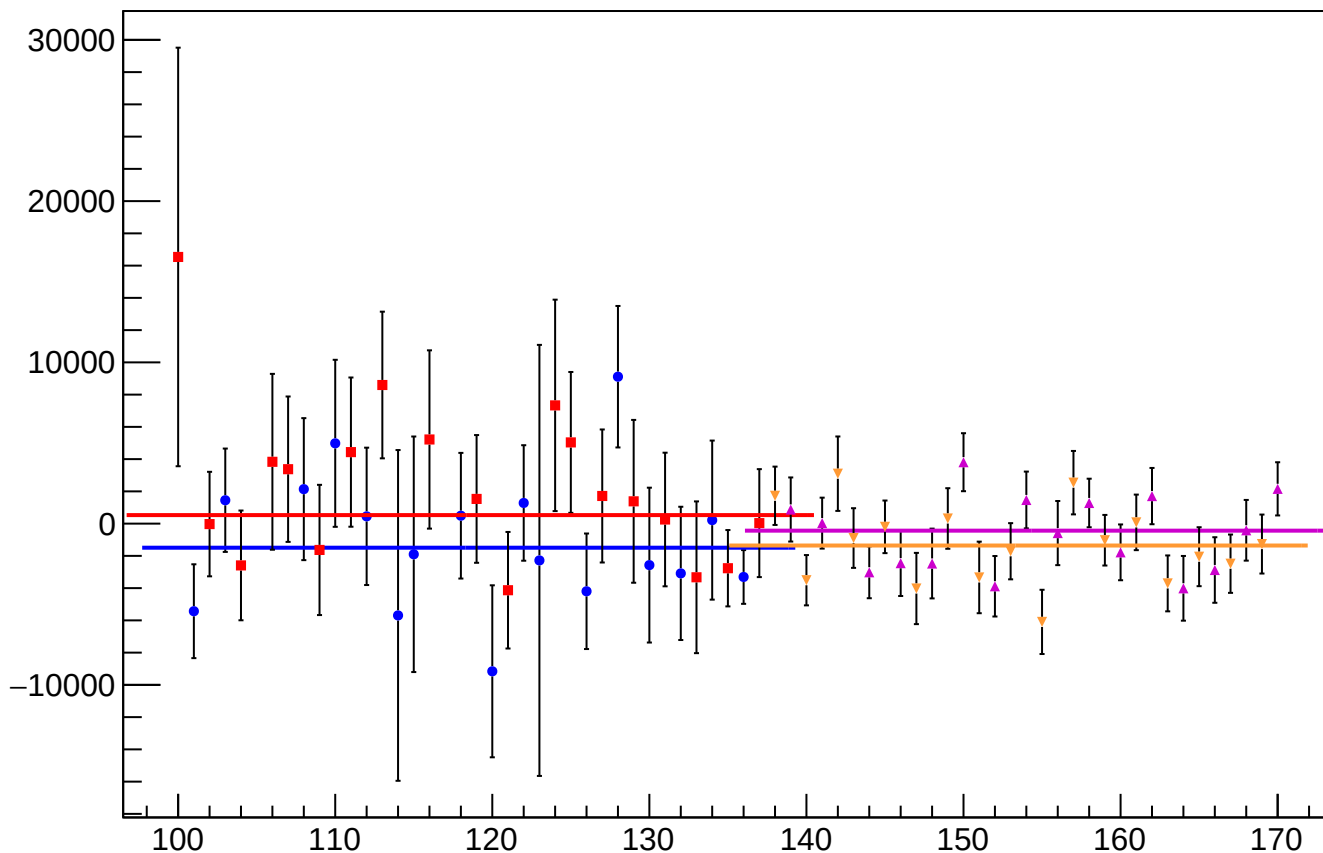
Right: 195.629 ± 0.038 χ^2/NDF : 318035.8/35

In: 199.966 ± 0.032 χ^2/NDF : 283373.0/32

Out: 198.880 ± 0.032 χ^2/NDF : 306413.1/35

All: 199.411 ± 0.023 χ^2/NDF : 590360.1/68

asym_sam_26_dd_correction_mean vs Slug, Sign Corrected



Right In: -1493.280+/-910.834 χ^2/NDF : 16.1/16

Left Out: -1357.673+/-443.487 χ^2/NDF : 24.9/16

Right Out: 528.758+/-934.718 χ^2/NDF : 14.6/18

Left In: -435.938+/-451.394 χ^2/NDF : 25.6/15

Left: -904.949+/-316.351 χ^2/NDF : 52.6/32

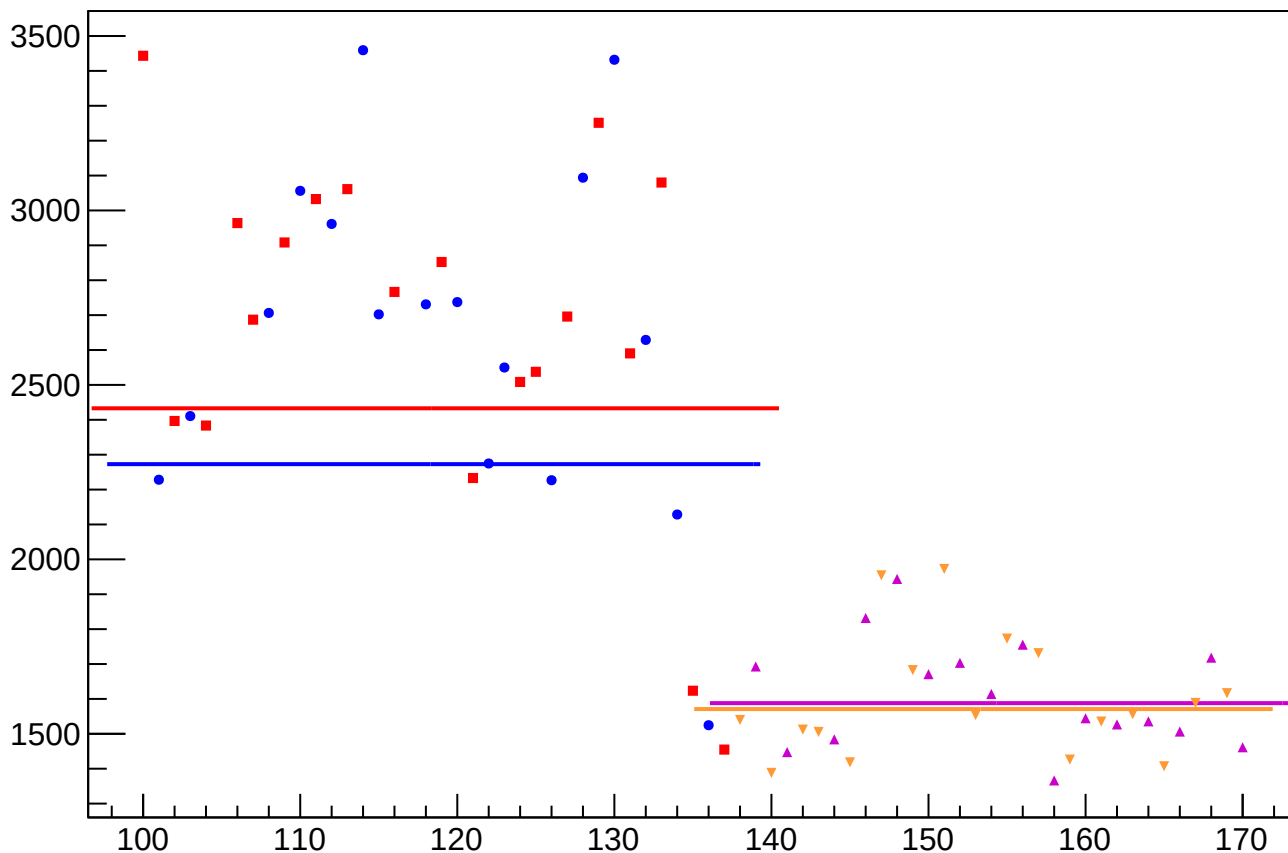
Right: -508.424+/-652.337 χ^2/NDF : 33.2/35

In: -644.421+/-404.451 χ^2/NDF : 42.8/32

Out: -1011.043+/-400.676 χ^2/NDF : 42.9/35

All: -829.451+/-284.646 χ^2/NDF : 86.1/68

asym_sam_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 2272.883+/-0.644 χ^2/NDF : 805650.3/16

Left Out: 1570.935+/-0.314 χ^2/NDF : 251732.2/16

Right Out: 2432.950+/-0.661 χ^2/NDF : 680783.9/18

Left In: 1587.911+/-0.319 χ^2/NDF : 211988.8/15

Left: 1579.273+/-0.224 χ^2/NDF : 465160.3/32

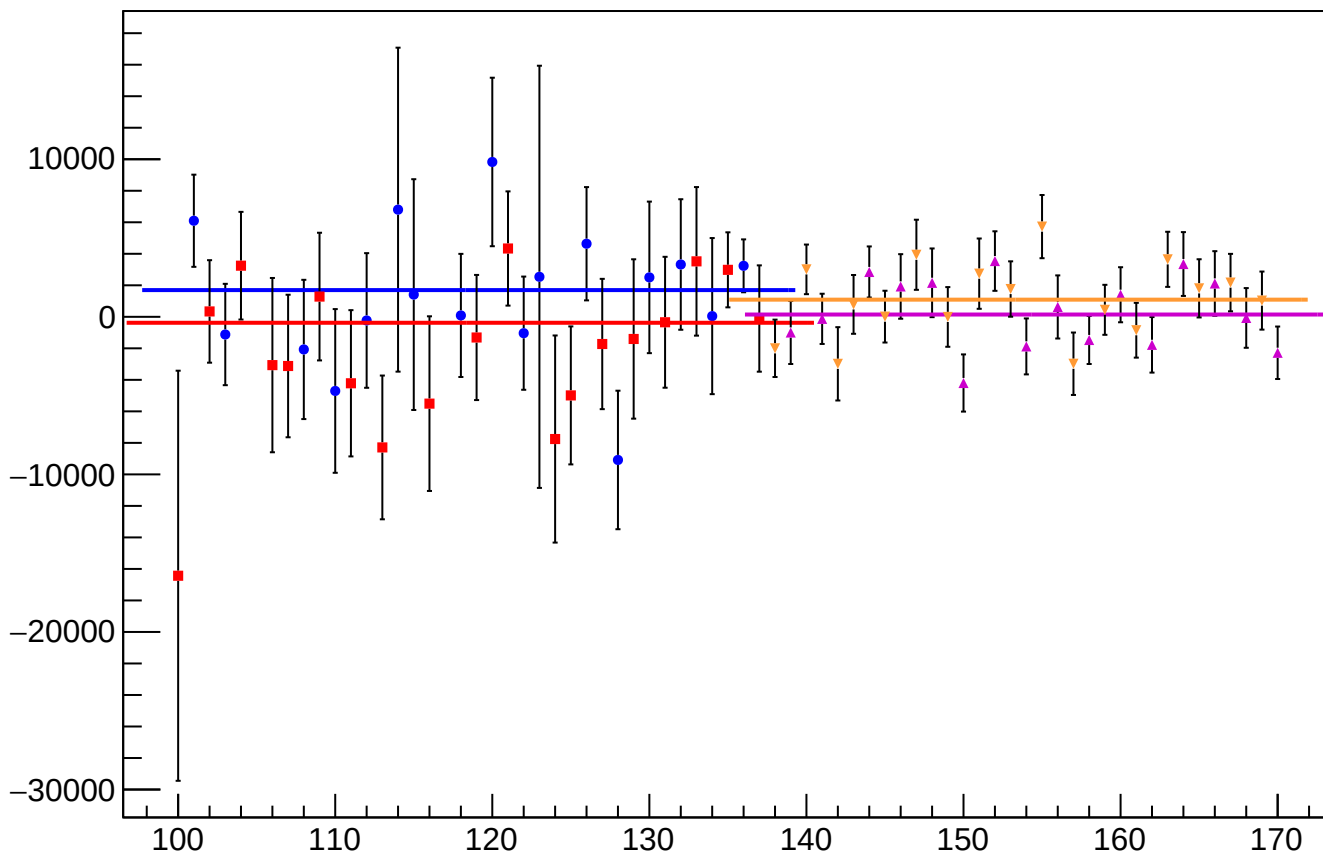
Right: 2350.846+/-0.461 χ^2/NDF : 1516518.2/35

In: 1722.971+/-0.286 χ^2/NDF : 1925706.4/32

Out: 1729.329+/-0.283 χ^2/NDF : 2320941.3/35

All: 1726.180+/-0.201 χ^2/NDF : 4246897.2/68

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 1695.956 $\pm$ 914.855 χ^2/NDF : 16.6/16

Left Out: 1089.140 $\pm$ 447.233 χ^2/NDF : 24.2/16

Right Out: -377.629 $\pm$ 938.528 χ^2/NDF : 15.0/18

Left In: 145.582 $\pm$ 455.241 χ^2/NDF : 23.5/15

Left: 625.733 $\pm$ 319.035 χ^2/NDF : 49.8/32

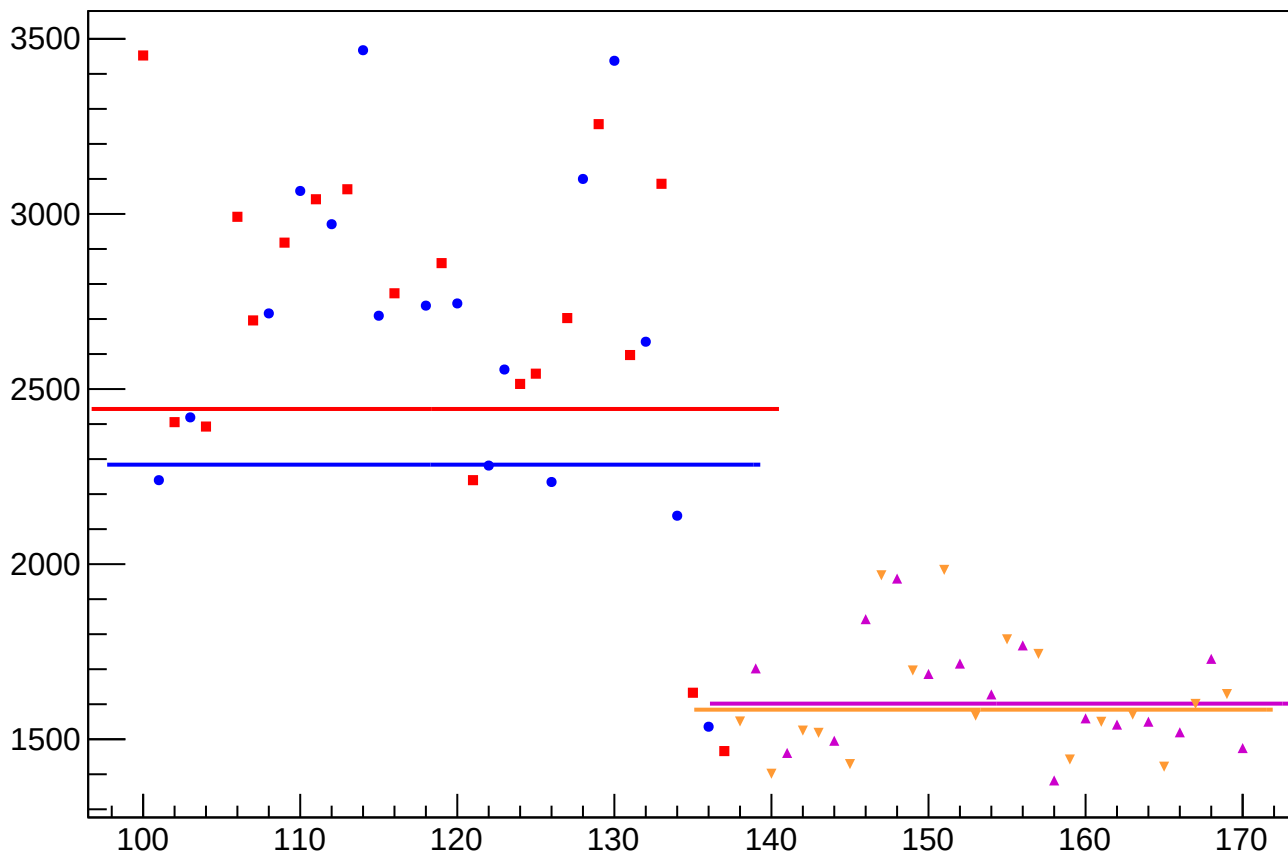
Right: 685.645 $\pm$ 655.109 χ^2/NDF : 34.1/35

In: 453.286 $\pm$ 407.569 χ^2/NDF : 42.4/32

Out: 817.707 $\pm$ 403.736 χ^2/NDF : 41.1/35

All: 637.218 $\pm$ 286.830 χ^2/NDF : 83.9/68

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2284.104 $\pm$ 0.647 χ^2 /NDF: 793993.4/16

Left Out: 1584.477 $\pm$ 0.316 χ^2 /NDF: 246937.1/16

Right Out: 2443.124 $\pm$ 0.664 χ^2 /NDF: 672899.9/18

Left In: 1601.703 $\pm$ 0.322 χ^2 /NDF: 206666.4/15

Left: 1592.937 $\pm$ 0.226 χ^2 /NDF: 455060.7/32

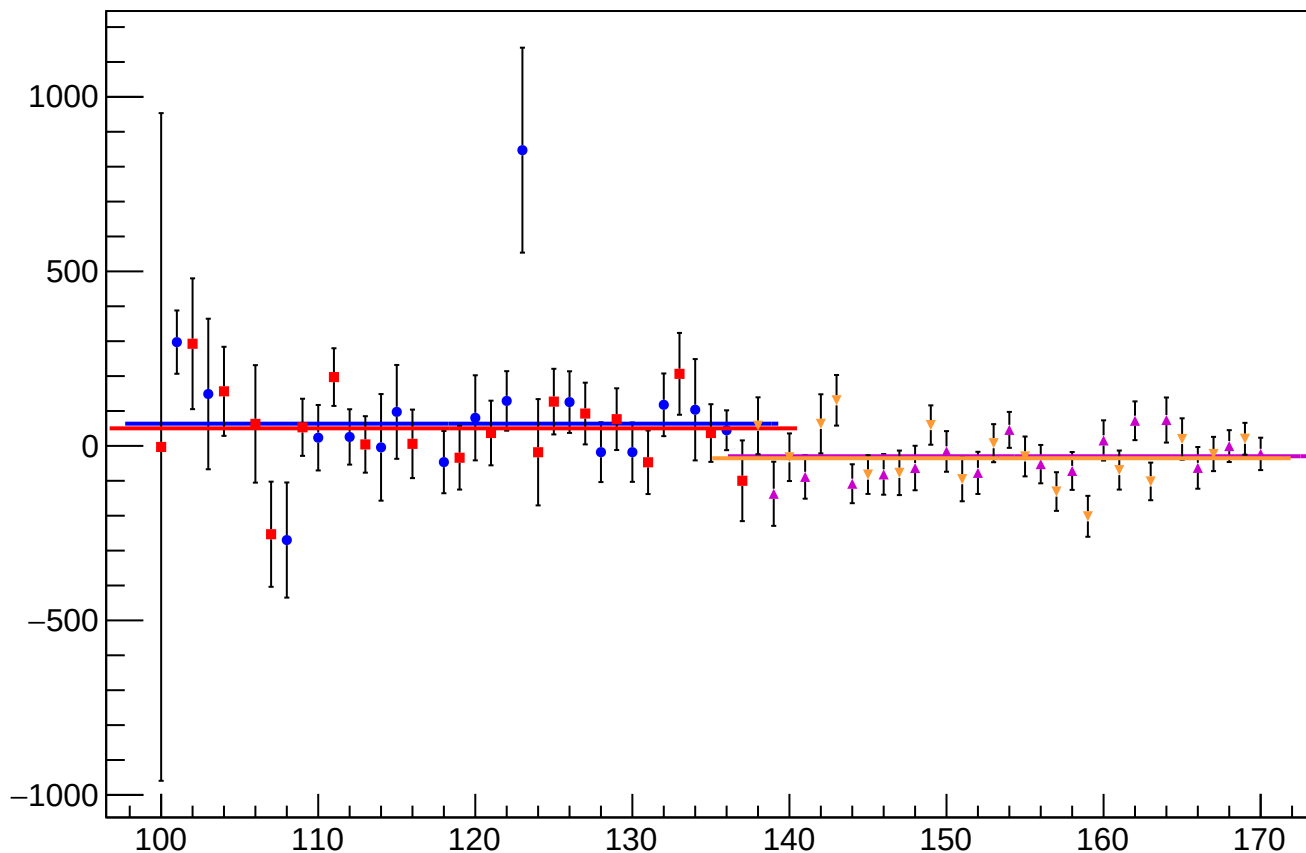
Right: 2361.583 $\pm$ 0.463 χ^2 /NDF: 1496334.9/35

In: 1737.139 $\pm$ 0.288 χ^2 /NDF: 1892575.0/32

Out: 1743.374 $\pm$ 0.285 χ^2 /NDF: 2284084.5/35

All: 1740.286 $\pm$ 0.203 χ^2 /NDF: 4176895.8/68

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 63.666 $\pm$ 23.743 χ^2 /NDF: 23.7/16

Left Out: -35.398 $\pm$ 14.236 χ^2 /NDF:28.8/16

Right Out: 50.278 $\pm$ 23.661 χ^2 /NDF: 16.8/18

Left In: -29.648 $\pm$ 14.227 χ^2 /NDF:16.2/15

Left: -32.521 $\pm$ 10.063 χ^2 /NDF: 45.0/32

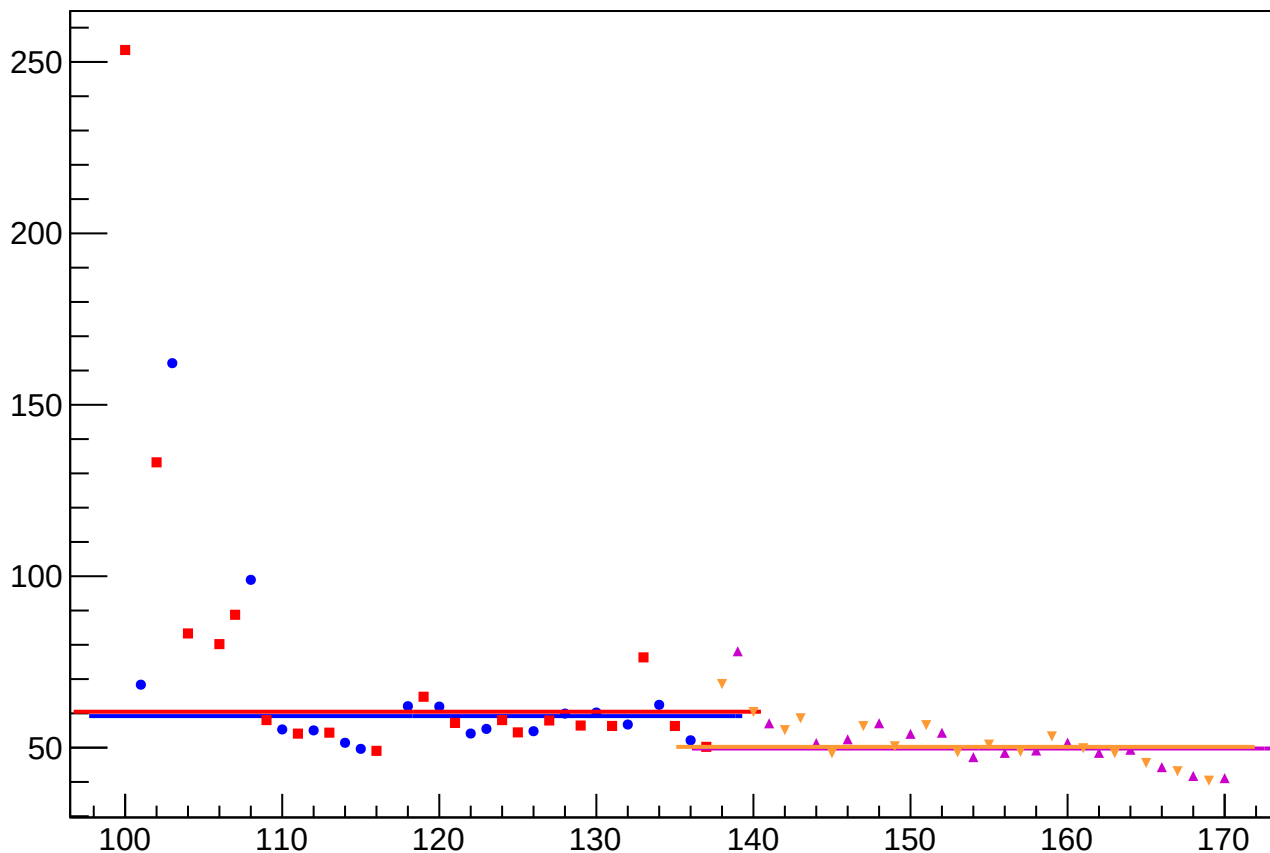
Right: 56.949 $\pm$ 16.760 χ^2 /NDF: 40.6/35

In: -4.995 $\pm$ 12.204 χ^2 /NDF:51.2/32

Out: -12.625 $\pm$ 12.199 χ^2 /NDF:55.2/35

All: -8.812 $\pm$ 8.627 χ^2 /NDF: 106.6/68

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 59.200 $\pm$ 0.017 χ^2 /NDF: 665472.4/16

Left Out: 50.231 $\pm$ 0.010 χ^2 /NDF: 378309.0/16

Right Out: 60.483 $\pm$ 0.017 χ^2 /NDF: 680059.5/18

Left In: 49.749 $\pm$ 0.010 χ^2 /NDF: 429373.1/15

Left: 49.990 $\pm$ 0.007 χ^2 /NDF: 808829.1/32

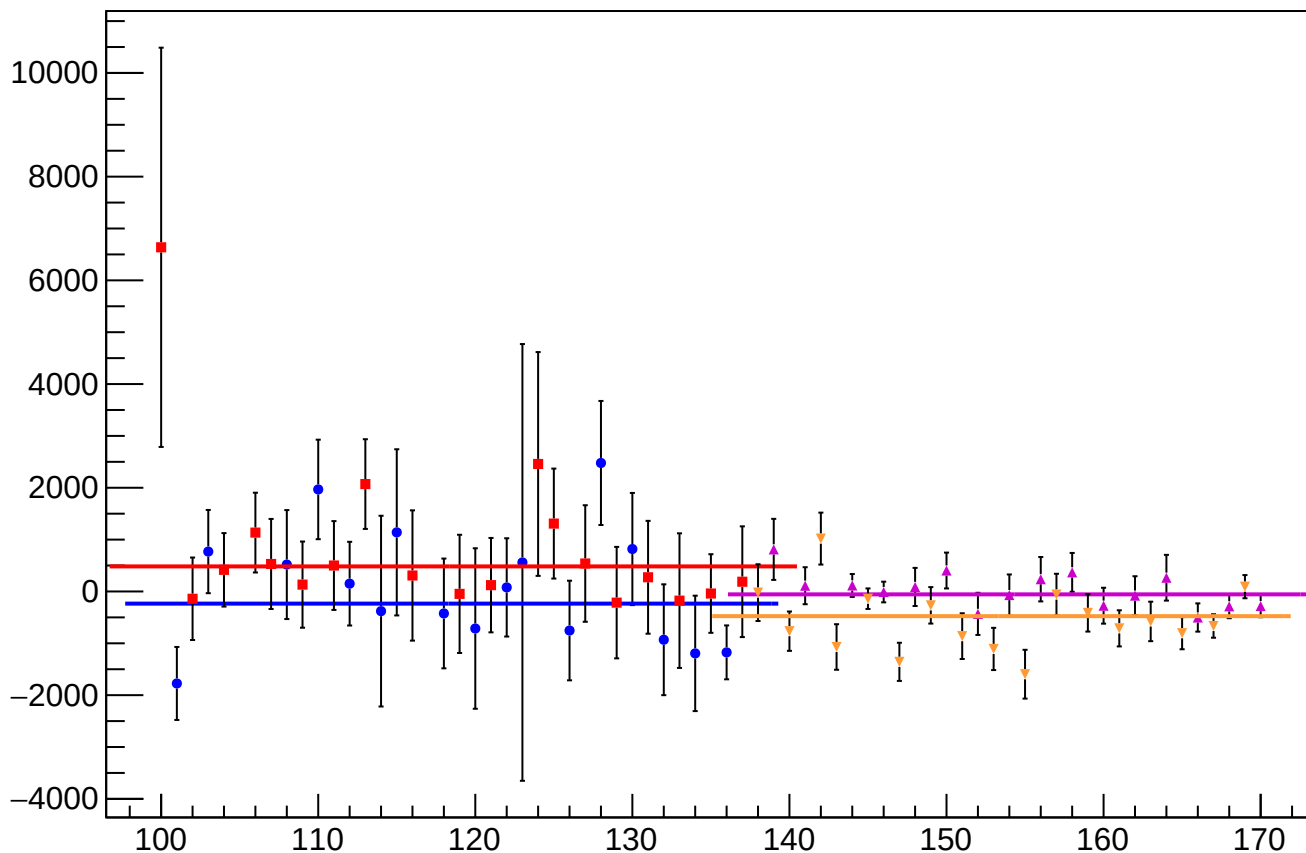
Right: 59.844 $\pm$ 0.012 χ^2 /NDF: 1348461.0/35

In: 52.246 $\pm$ 0.009 χ^2 /NDF: 1328033.3/32

Out: 52.956 $\pm$ 0.009 χ^2 /NDF: 1334034.7/35

All: 52.601 $\pm$ 0.006 χ^2 /NDF: 2665454.0/68

asym_sam_37_dd_correction_mean vs Slug, Sign Corrected



Right In: -234.492 $\pm$ 233.880 χ^2 /NDF: 24.2/16

Left Out: -476.354 $\pm$ 80.260 χ^2 /NDF:39.8/16

Right Out: 483.305 $\pm$ 222.314 χ^2 /NDF: 10.6/18

Left In: -55.977 $\pm$ 76.267 χ^2 /NDF:13.3/15

Left: -255.448 $\pm$ 55.287 χ^2 /NDF: 67.5/32

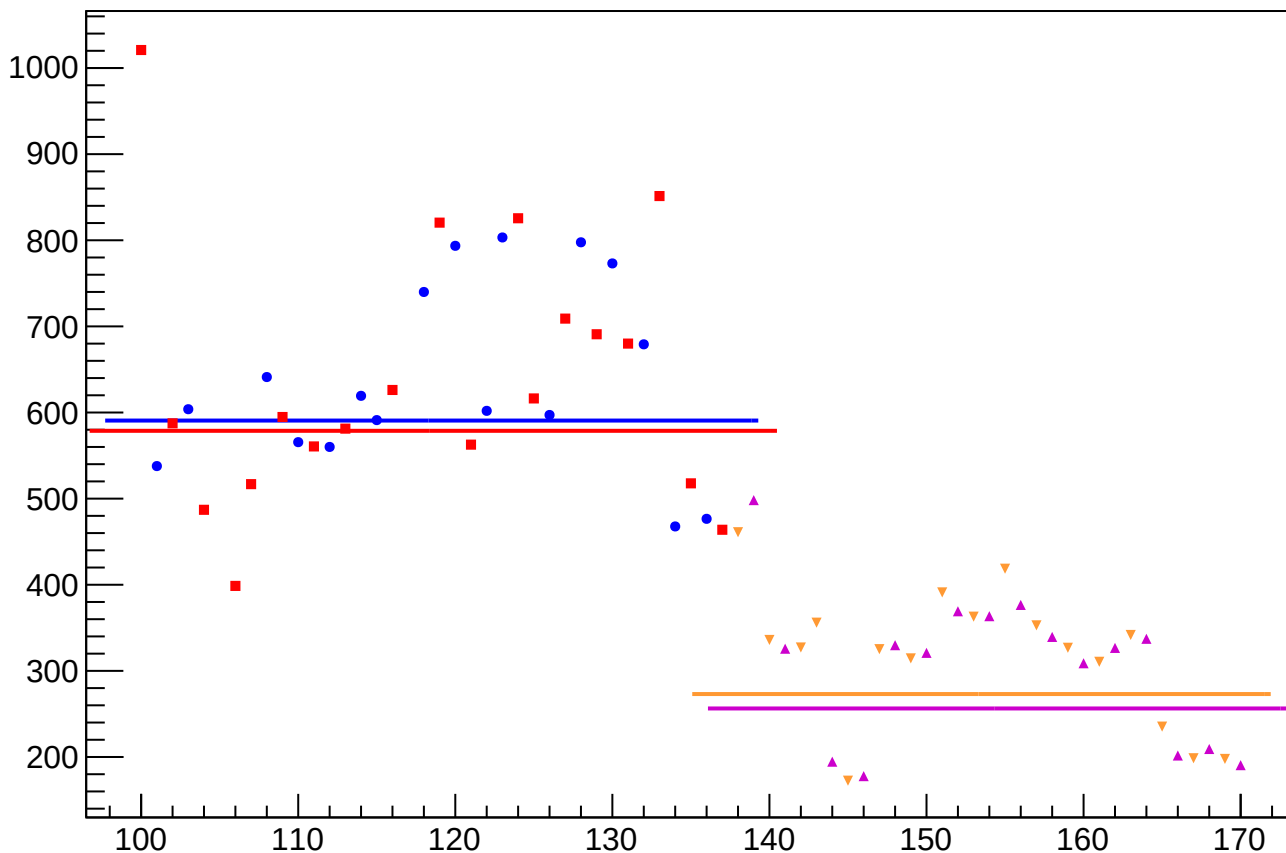
Right: 142.594 $\pm$ 161.133 χ^2 /NDF: 39.7/35

In: -73.136 $\pm$ 72.509 χ^2 /NDF:38.0/32

Out: -365.697 $\pm$ 75.491 χ^2 /NDF:66.8/35

All: -213.524 $\pm$ 52.294 χ^2 /NDF: 112.7/68

asym_sam_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 590.659 ± 0.165 χ^2/NDF : 352080.1/16

Left Out: 273.090 ± 0.057 χ^2/NDF : 2087738.2/16

Right Out: 578.753 ± 0.157 χ^2/NDF : 493962.7/18

Left In: 256.342 ± 0.054 χ^2/NDF : 2122438.5/15

Left: 264.289 ± 0.039 χ^2/NDF : 4255943.7/32

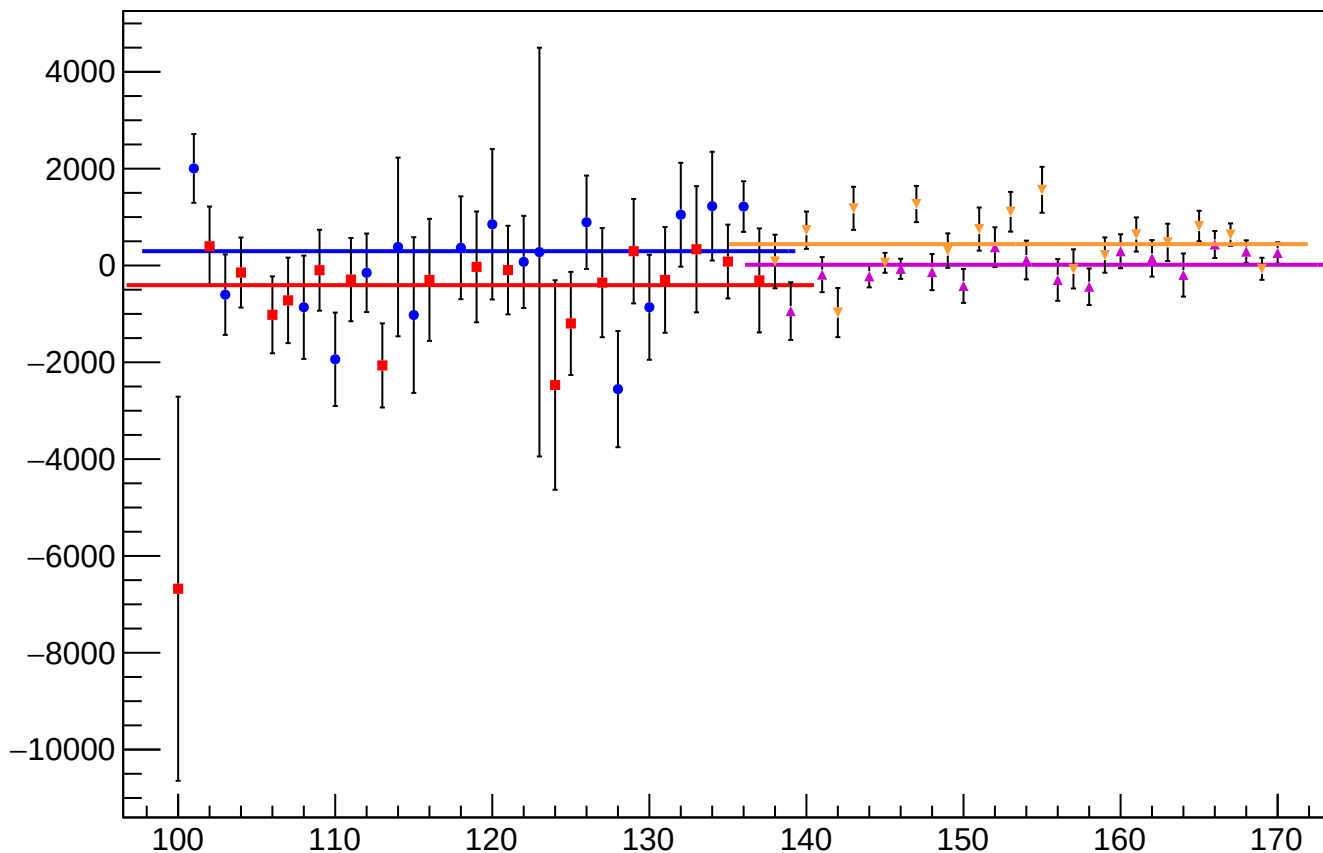
Right: 584.404 ± 0.114 χ^2/NDF : 848765.8/35

In: 288.475 ± 0.051 χ^2/NDF : 6168324.7/32

Out: 308.336 ± 0.053 χ^2/NDF : 5926523.1/35

All: 298.006 ± 0.037 χ^2/NDF : 12166848.5/68

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 295.401 $\pm$ 235.860 χ^2 /NDF: 26.1/16

Left Out: 440.926 $\pm$ 81.830 χ^2 /NDF:38.2/16

Right Out: -406.158 $\pm$ 224.855 χ^2 /NDF: 11.0/18

Left In: 15.363 $\pm$ 78.005 χ^2 /NDF:14.5/15

Left: 217.966 $\pm$ 56.462 χ^2 /NDF: 66.9/32

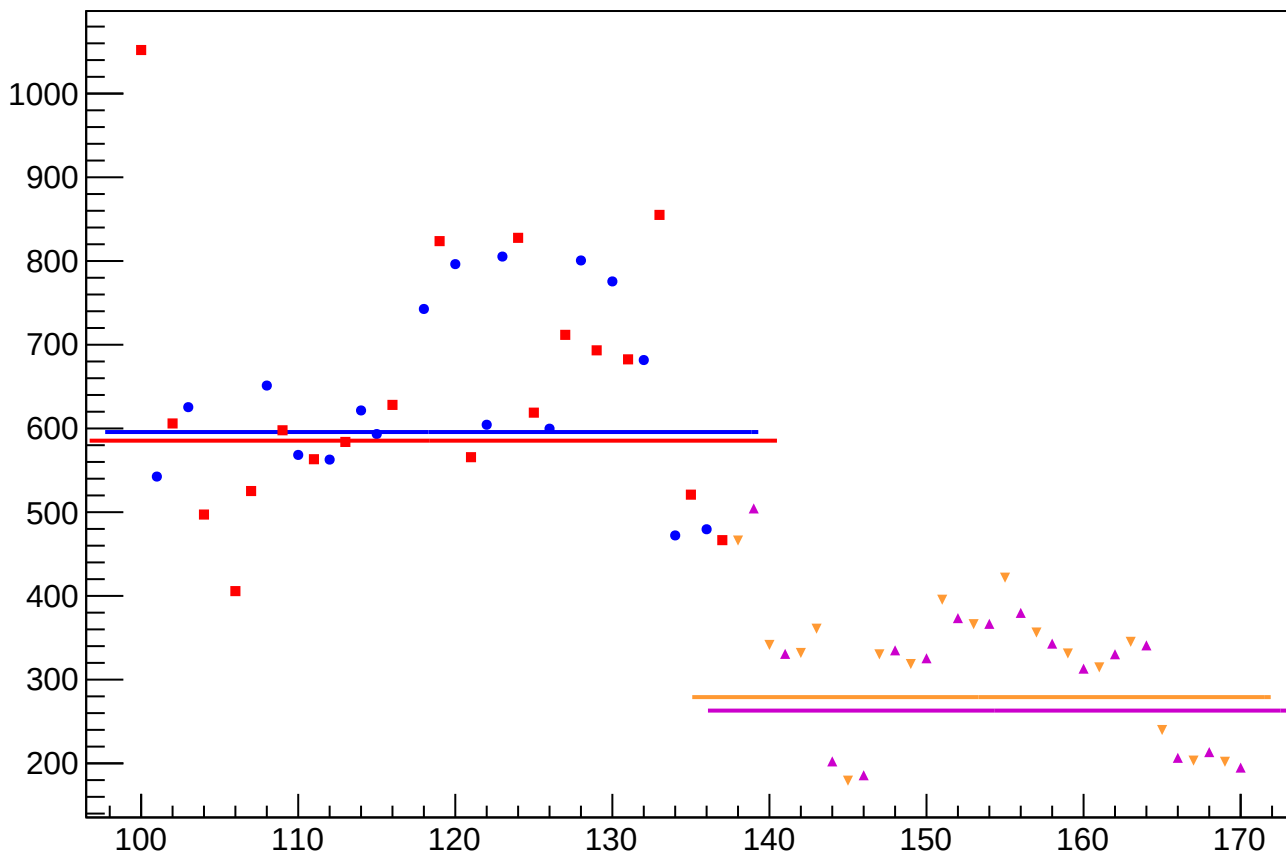
Right: -72.128 $\pm$ 162.748 χ^2 /NDF: 41.7/35

In: 42.973 $\pm$ 74.060 χ^2 /NDF:41.8/32

Out: 341.859 $\pm$ 76.896 χ^2 /NDF:61.7/35

All: 186.802 $\pm$ 53.343 χ^2 /NDF: 111.4/68

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 595.734 $\pm$ 0.167 χ^2 /NDF: 350058.2/16

Left Out: 279.119 $\pm$ 0.058 χ^2 /NDF:1977212.6/16

Right Out: 585.421 $\pm$ 0.159 χ^2 /NDF: 474472.3/18

Left In: 263.015 $\pm$ 0.055 χ^2 /NDF:1994085.5/15

Left: 270.682 $\pm$ 0.040 χ^2 /NDF: 4011880.0/32

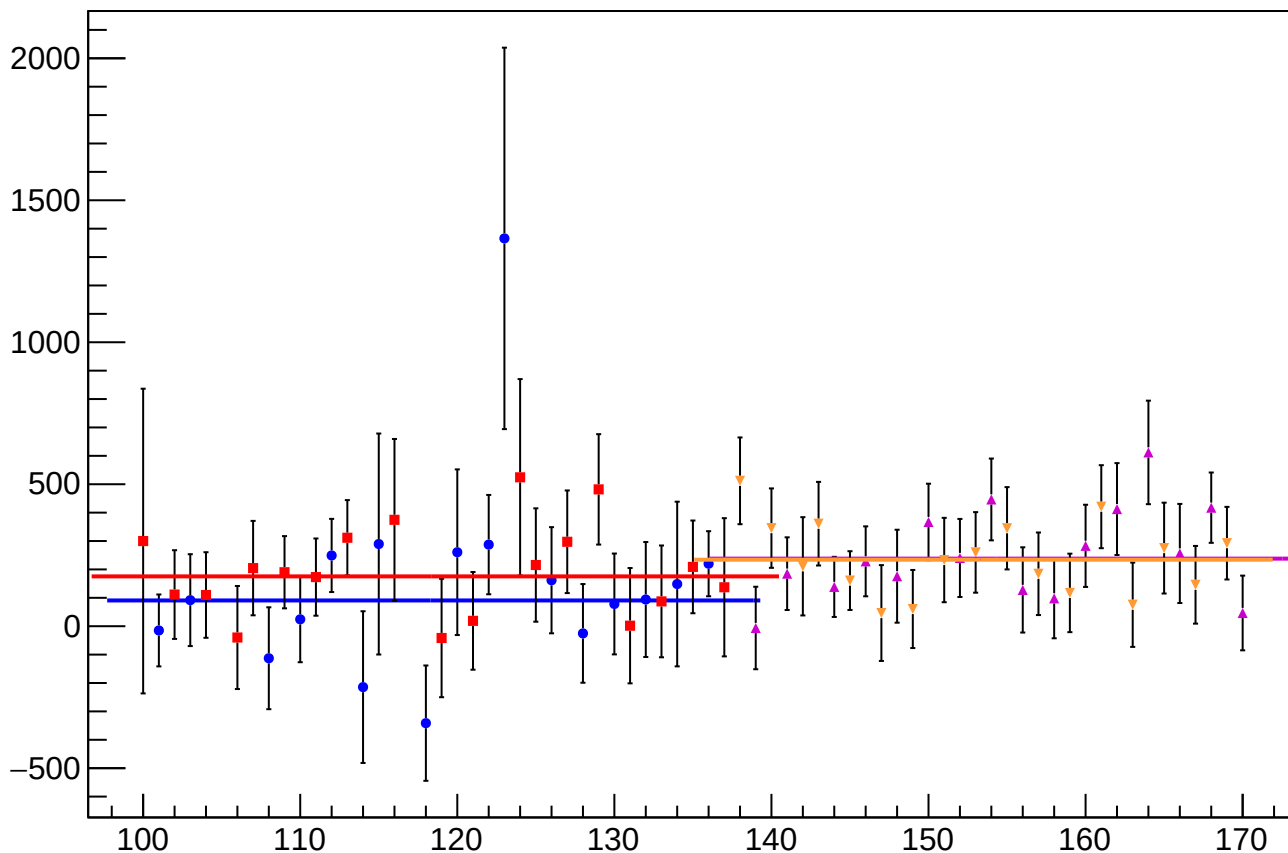
Right: 590.331 $\pm$ 0.115 χ^2 /NDF: 826533.5/35

In: 295.819 $\pm$ 0.052 χ^2 /NDF:5931664.1/32

Out: 314.941 $\pm$ 0.054 χ^2 /NDF:5728948.8/35

All: 305.021 $\pm$ 0.038 χ^2 /NDF: 11724774.3/68

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 90.711+/-43.312 χ^2/NDF : 16.9/16

Left Out: 234.249+/-34.442 χ^2/NDF :12.9/16

Right Out: 175.485+/-41.101 χ^2/NDF : 10.3/18

Left In: 237.992+/-34.840 χ^2/NDF :18.3/15

Left: 236.099+/-24.494 χ^2/NDF : 31.2/32

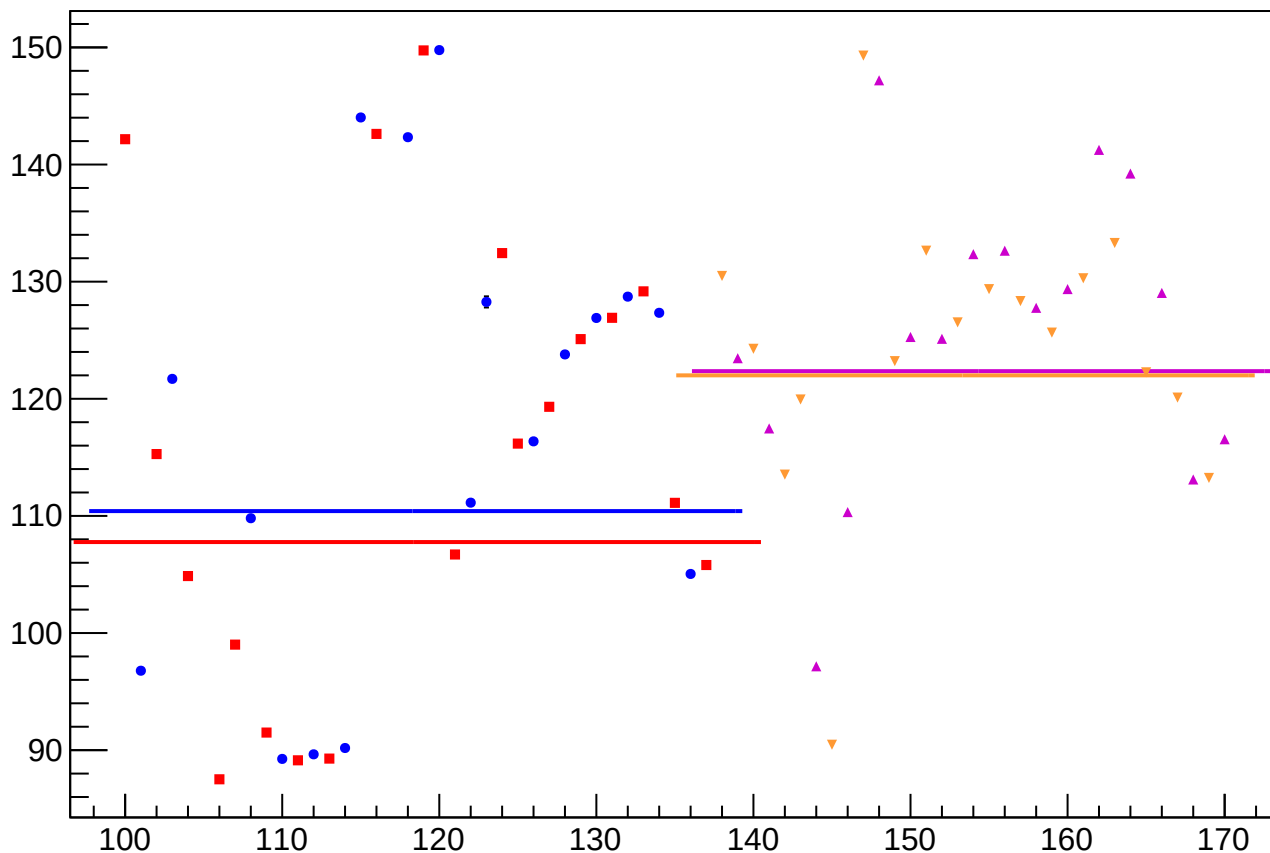
Right: 135.317+/-29.814 χ^2/NDF : 29.2/35

In: 180.132+/-27.147 χ^2/NDF :42.2/32

Out: 210.007+/-26.398 χ^2/NDF :24.5/35

All: 195.487+/-18.926 χ^2/NDF : 67.3/68

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 110.411 $\pm$ 0.031 χ^2 /NDF: 296425.4/16

Left Out: 122.001 $\pm$ 0.024 χ^2 /NDF: 300695.1/16

Right Out: 107.768 $\pm$ 0.029 χ^2 /NDF: 344441.4/18

Left In: 122.359 $\pm$ 0.025 χ^2 /NDF: 272236.8/15

Left: 122.178 $\pm$ 0.017 χ^2 /NDF: 573039.2/32

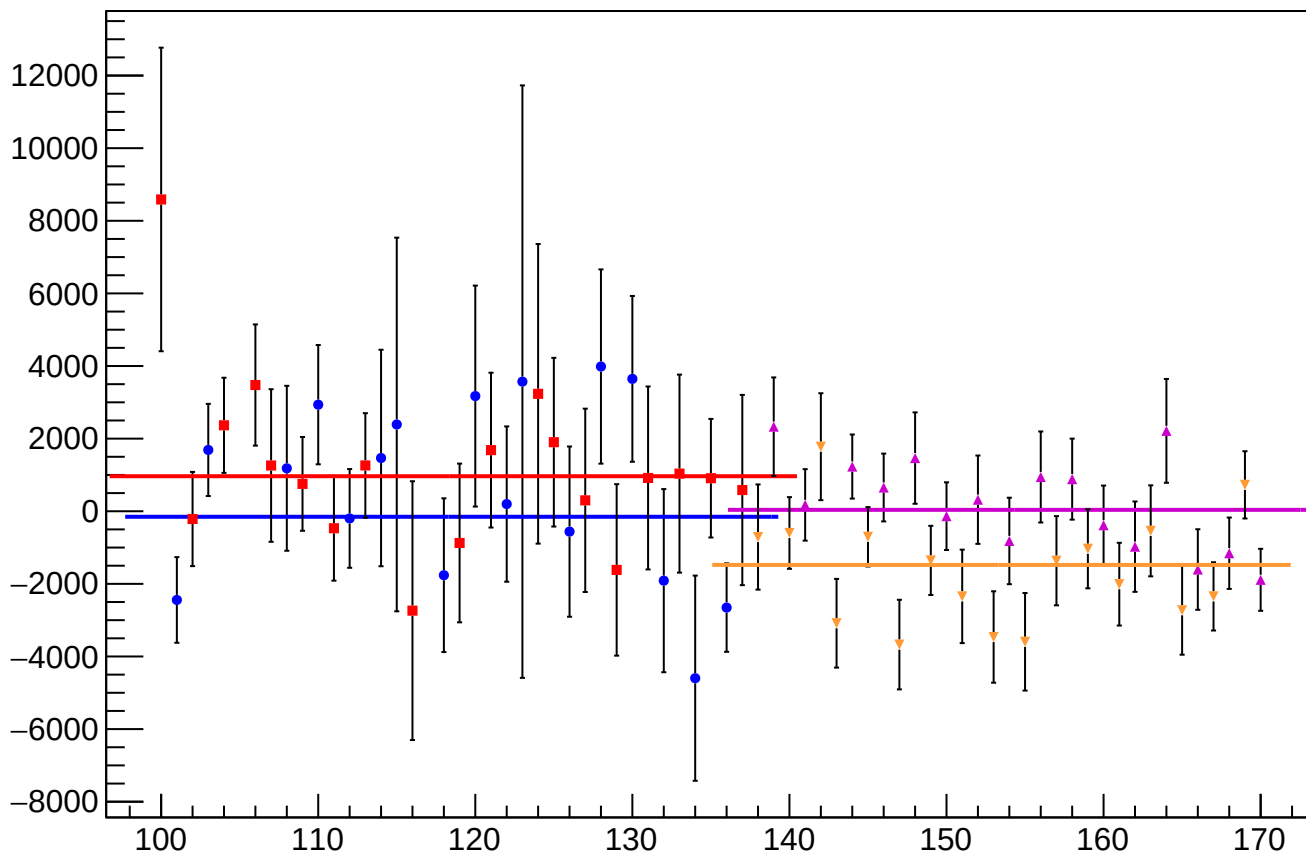
Right: 109.020 $\pm$ 0.021 χ^2 /NDF: 644787.1/35

In: 117.666 $\pm$ 0.019 χ^2 /NDF: 661066.3/32

Out: 116.129 $\pm$ 0.019 χ^2 /NDF: 786031.4/35

All: 116.876 $\pm$ 0.013 χ^2 /NDF: 1450390.3/68

asym_sam_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -152.403+/-464.753 χ^2/NDF : 24.7/16

Left Out: -1478.503+/-271.622 χ^2/NDF :25.7/16

Right Out: 964.716+/-435.111 χ^2/NDF : 12.3/18

Left In: 38.575+/-269.191 χ^2/NDF :20.0/15

Left: -713.143+/-191.201 χ^2/NDF : 61.5/32

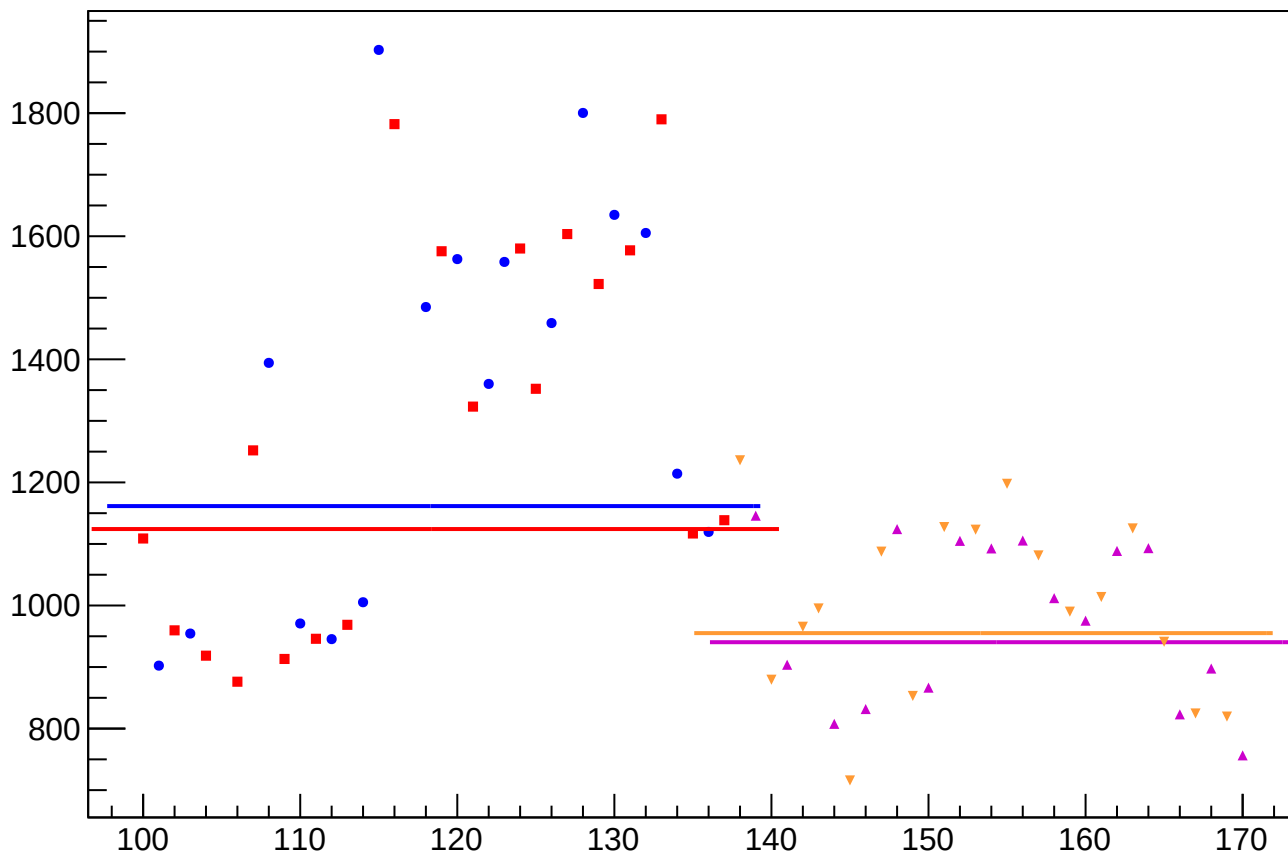
Right: 442.914+/-317.632 χ^2/NDF : 40.0/35

In: -9.400+/-232.938 χ^2/NDF :44.8/32

Out: -793.375+/-230.412 χ^2/NDF :60.7/35

All: -405.661+/-163.812 χ^2/NDF : 111.2/68

asym_sam_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 1161.530 $\pm$ 0.329 χ^2/NDF : 695906.9/16

Left Out: 955.124 $\pm$ 0.192 χ^2/NDF : 590361.9/16

Right Out: 1124.235 $\pm$ 0.308 χ^2/NDF : 767790.0/18

Left In: 940.364 $\pm$ 0.190 χ^2/NDF : 460679.9/15

Left: 947.678 $\pm$ 0.135 χ^2/NDF : 1054021.3/32

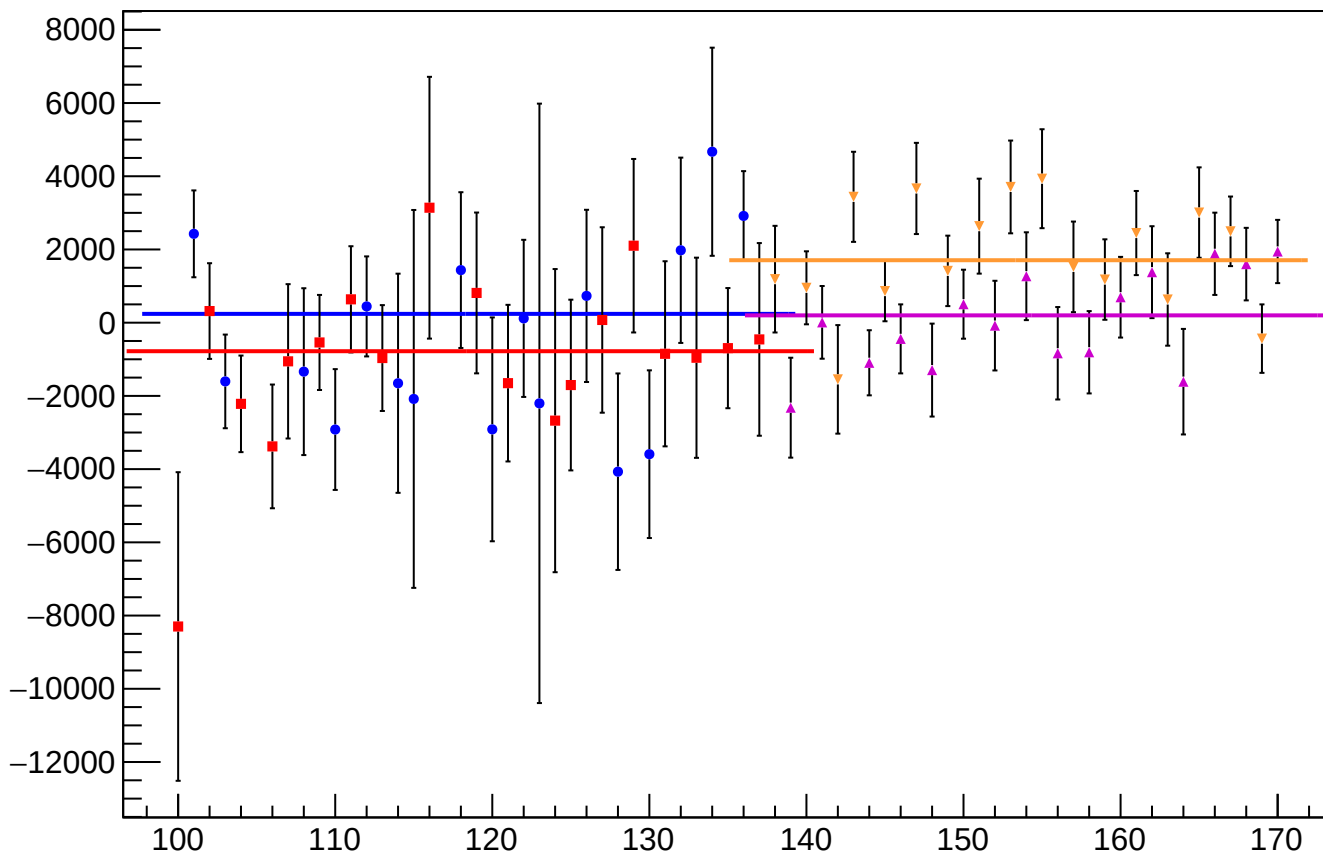
Right: 1141.655 $\pm$ 0.225 χ^2/NDF : 1470560.5/35

In: 995.923 $\pm$ 0.165 χ^2/NDF : 1495730.7/32

Out: 1002.546 $\pm$ 0.163 χ^2/NDF : 1575545.8/35

All: 999.271 $\pm$ 0.116 χ^2/NDF : 3072093.8/68

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 240.732 $\pm$ 467.036 χ^2 /NDF: 24.8/16

Left Out: 1706.178 $\pm$ 273.922 χ^2 /NDF:25.3/16

Right Out: -779.192 $\pm$ 437.487 χ^2 /NDF: 12.3/18

Left In: 199.864 $\pm$ 271.569 χ^2 /NDF:20.8/15

Left: 946.522 $\pm$ 192.855 χ^2 /NDF: 61.4/32

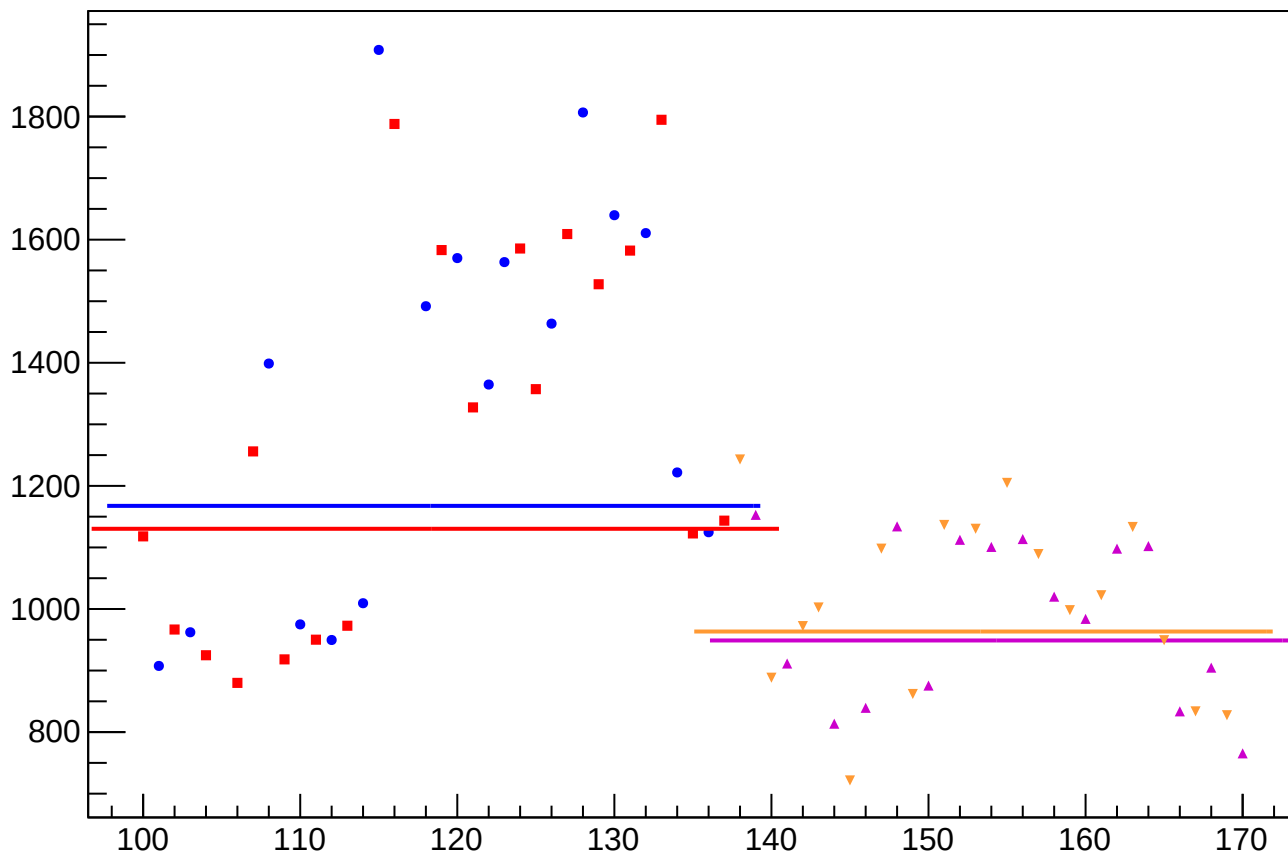
Right: -302.513 $\pm$ 319.286 χ^2 /NDF: 39.7/35

In: 210.190 $\pm$ 234.765 χ^2 /NDF:45.7/32

Out: 1006.231 $\pm$ 232.168 χ^2 /NDF:60.8/35

All: 612.638 $\pm$ 165.078 χ^2 /NDF: 112.3/68

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1167.539 +/- 0.330 χ^2/NDF : 690485.6/16

Left Out: 963.417 +/- 0.194 χ^2/NDF : 583157.6/16

Right Out: 1130.301 +/- 0.309 χ^2/NDF : 761503.6/18

Left In: 948.867 +/- 0.192 χ^2/NDF : 453418.9/15

Left: 956.079 +/- 0.136 χ^2/NDF : 1039422.2/32

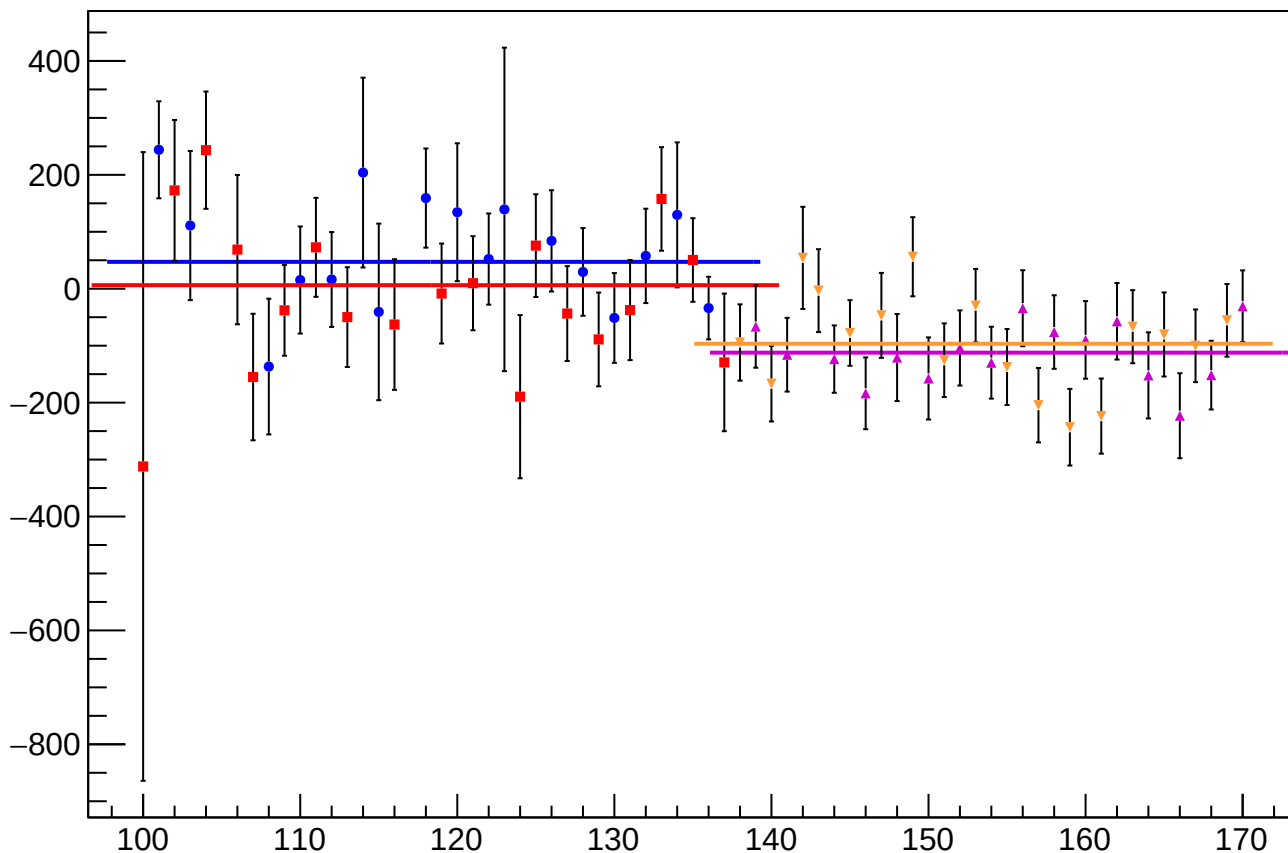
Right: 1147.705 +/- 0.226 χ^2/NDF : 1458761.3/35

In: 1004.120 +/- 0.166 χ^2/NDF : 1471563.2/32

Out: 1010.416 +/- 0.164 χ^2/NDF : 1553725.2/35

All: 1007.303 +/- 0.117 χ^2/NDF : 3026015.4/68

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 47.220 $\pm$ 22.565 χ^2 /NDF: 16.1/16

Left Out: -96.608 $\pm$ 16.314 χ^2 /NDF:24.5/16

Right Out: 6.246 $\pm$ 22.128 χ^2 /NDF: 20.3/18

Left In: -112.223 $\pm$ 16.680 χ^2 /NDF:9.3/15

Left: -104.242 $\pm$ 11.663 χ^2 /NDF: 34.2/32

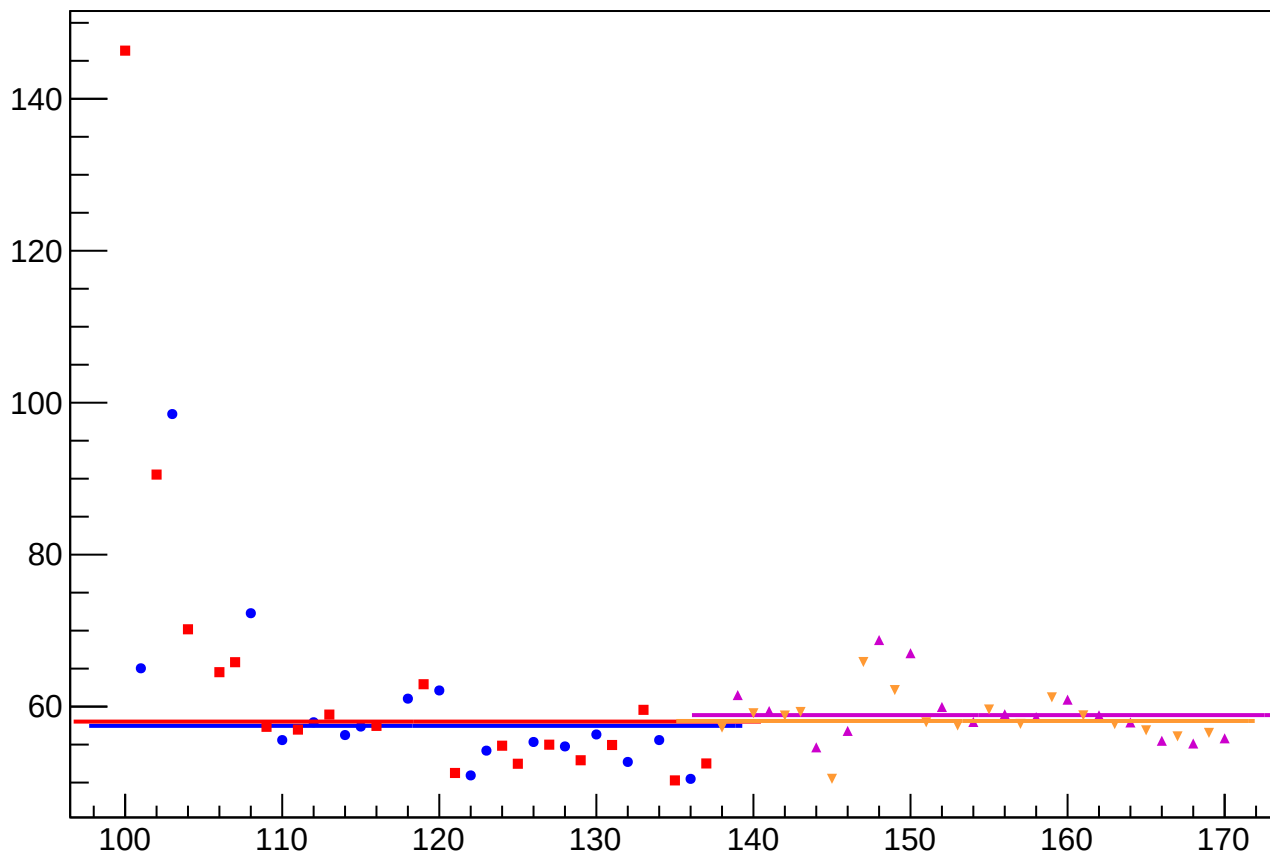
Right: 26.333 $\pm$ 15.799 χ^2 /NDF: 38.1/35

In: -55.885 $\pm$ 13.413 χ^2 /NDF:57.7/32

Out: -60.388 $\pm$ 13.131 χ^2 /NDF:58.8/35

All: -58.185 $\pm$ 9.383 χ^2 /NDF: 116.5/68

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 57.465 $\pm$ 0.016 χ^2 /NDF: 307156.4/16

Left Out: 58.108 $\pm$ 0.012 χ^2 /NDF: 74533.1/16

Right Out: 58.027 $\pm$ 0.016 χ^2 /NDF: 300788.2/18

Left In: 58.880 $\pm$ 0.012 χ^2 /NDF: 93760.2/15

Left: 58.485 $\pm$ 0.008 χ^2 /NDF: 170483.9/32

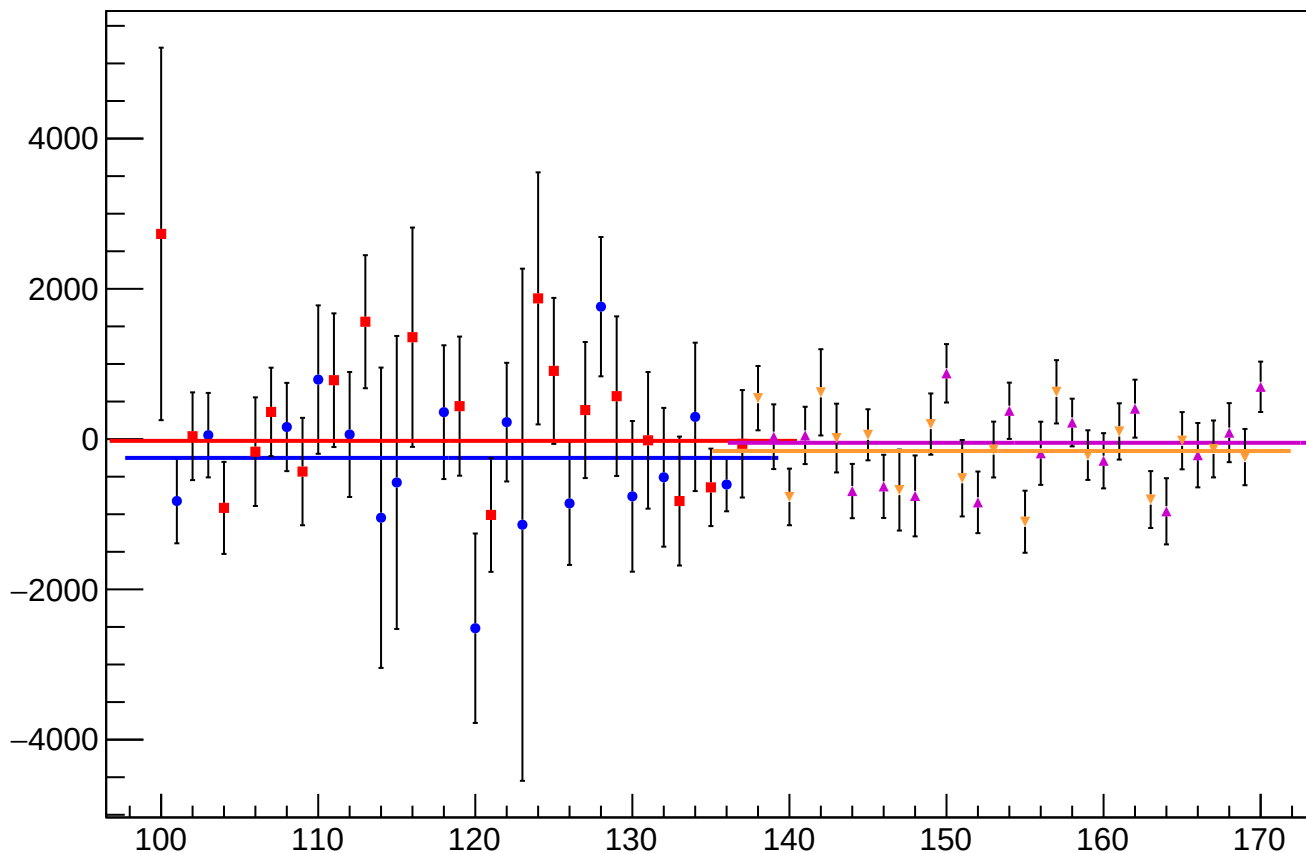
Right: 57.752 $\pm$ 0.011 χ^2 /NDF: 608576.3/35

In: 58.380 $\pm$ 0.009 χ^2 /NDF: 405999.5/32

Out: 58.079 $\pm$ 0.009 χ^2 /NDF: 375338.5/35

All: 58.227 $\pm$ 0.007 χ^2 /NDF: 781851.4/68

asym_sam_13_57_dd_correction_mean vs Slug, Sign Corrected



Right In: -250.140+/-184.092 χ^2/NDF : 14.3/16

Left Out: -158.094+/-97.441 χ^2/NDF : 22.2/16

Right Out: -23.314+/-181.834 χ^2/NDF : 16.1/18

Left In: -49.175+/-97.879 χ^2/NDF : 29.7/15

Left: -103.878+/-69.056 χ^2/NDF : 52.6/32

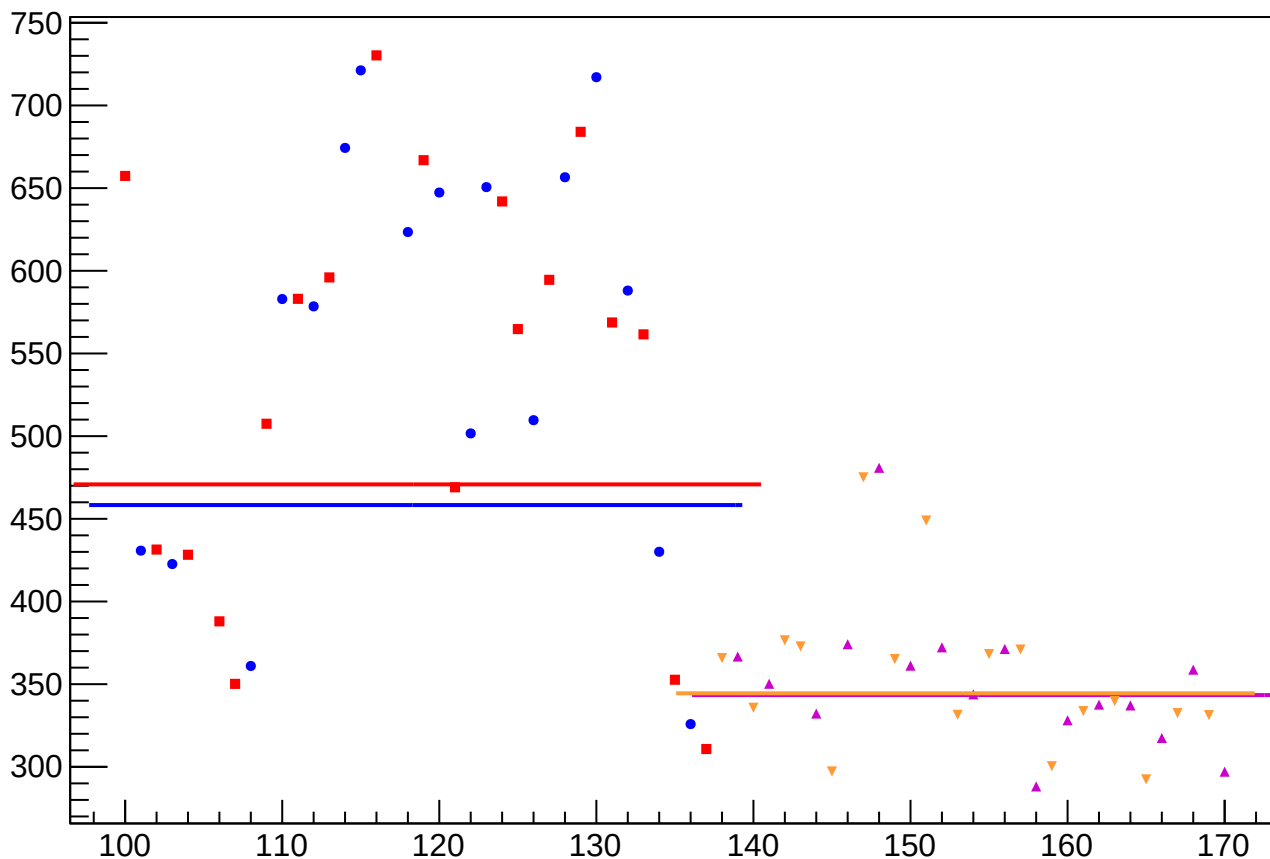
Right: -135.327+/-129.367 χ^2/NDF : 31.1/35

In: -93.465+/-86.423 χ^2/NDF : 44.9/32

Out: -128.024+/-85.887 χ^2/NDF : 38.7/35

All: -110.852+/-60.920 χ^2/NDF : 83.7/68

asym_sam_13_57_dd_correction_rms vs Slug, Sign Corrected



Right In: 458.324 $\pm$ 0.130 χ^2/NDF : 877201.7/16

Left Out: 344.482 $\pm$ 0.069 χ^2/NDF :362150.8/16

Right Out: 470.827 $\pm$ 0.129 χ^2/NDF : 778635.2/18

Left In: 343.409 $\pm$ 0.069 χ^2/NDF :285780.1/15

Left: 343.948 $\pm$ 0.049 χ^2/NDF : 648051.8/32

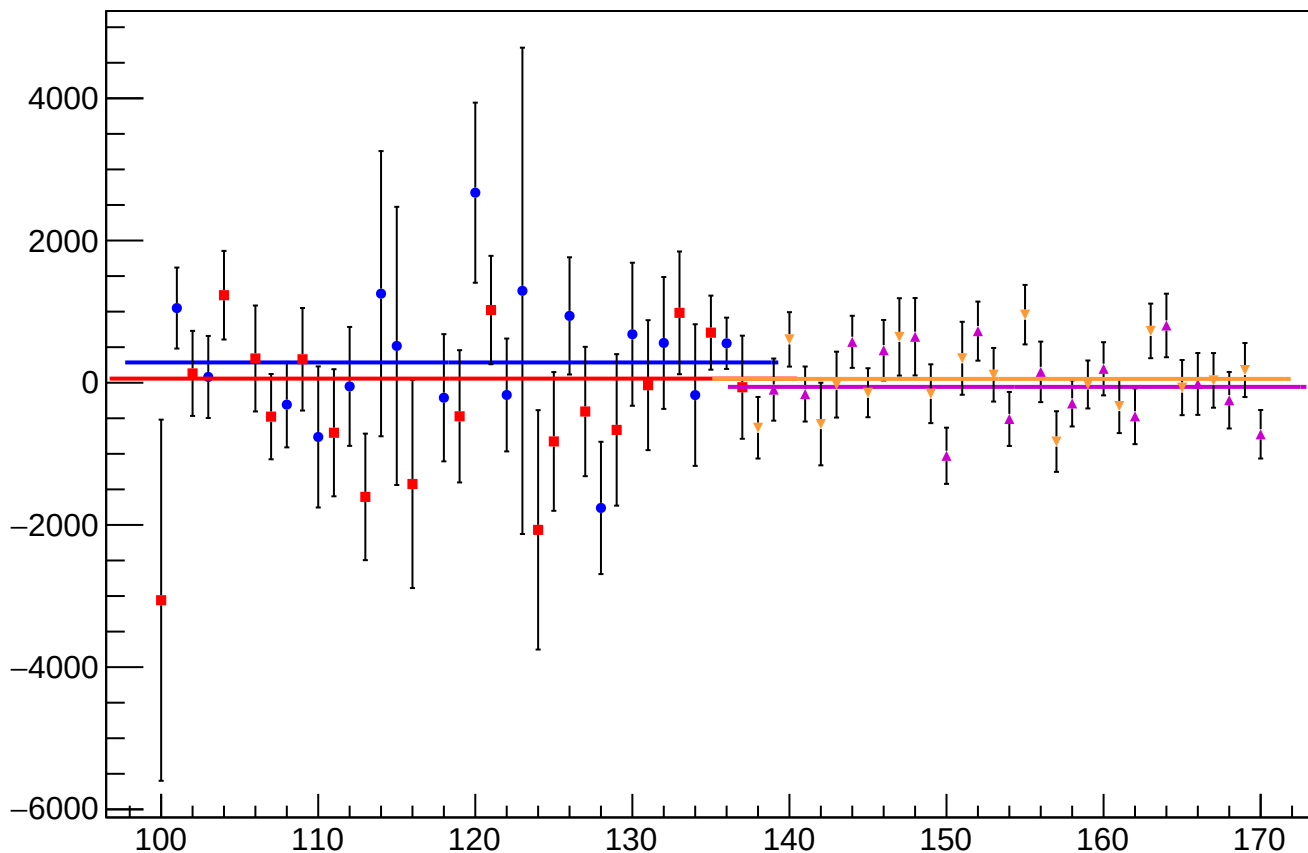
Right: 464.653 $\pm$ 0.091 χ^2/NDF : 1660506.8/35

In: 368.735 $\pm$ 0.061 χ^2/NDF :1770552.3/32

Out: 372.670 $\pm$ 0.061 χ^2/NDF :1890957.5/35

All: 370.714 $\pm$ 0.043 χ^2/NDF : 3663595.9/68

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 285.349 ± 186.262 $\chi^2/\text{NDF}: 15.2/16$

Left Out: 53.934 ± 98.874 $\chi^2/\text{NDF}: 21.2/16$

Right Out: 58.001 ± 184.074 $\chi^2/\text{NDF}: 19.2/18$

Left In: -58.306 ± 99.355 $\chi^2/\text{NDF}: 27.3/15$

Left: -1.914 ± 70.084 $\chi^2/\text{NDF}: 49.2/32$

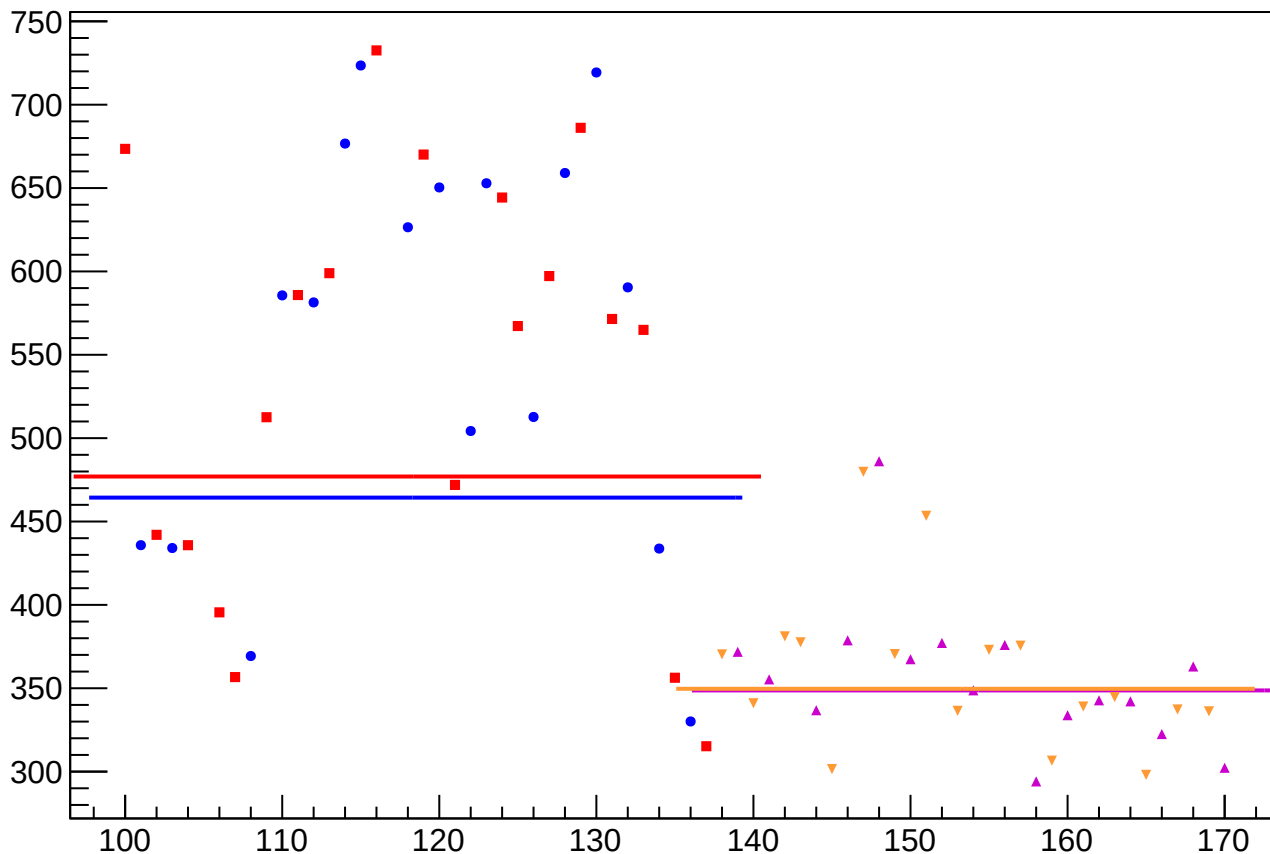
Right: 170.332 ± 130.927 $\chi^2/\text{NDF}: 35.1/35$

In: 17.815 ± 87.663 $\chi^2/\text{NDF}: 45.2/32$

Out: 54.844 ± 87.103 $\chi^2/\text{NDF}: 40.4/35$

All: 36.448 ± 61.788 $\chi^2/\text{NDF}: 85.7/68$

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 464.341 ± 0.132 $\chi^2/\text{NDF}: 845900.9/16$

Left Out: 349.672 ± 0.070 $\chi^2/\text{NDF}: 349512.5/16$

Right Out: 476.989 ± 0.130 $\chi^2/\text{NDF}: 749331.1/18$

Left In: 348.693 ± 0.070 $\chi^2/\text{NDF}: 275567.2/15$

Left: 349.185 ± 0.050 $\chi^2/\text{NDF}: 625177.2/32$

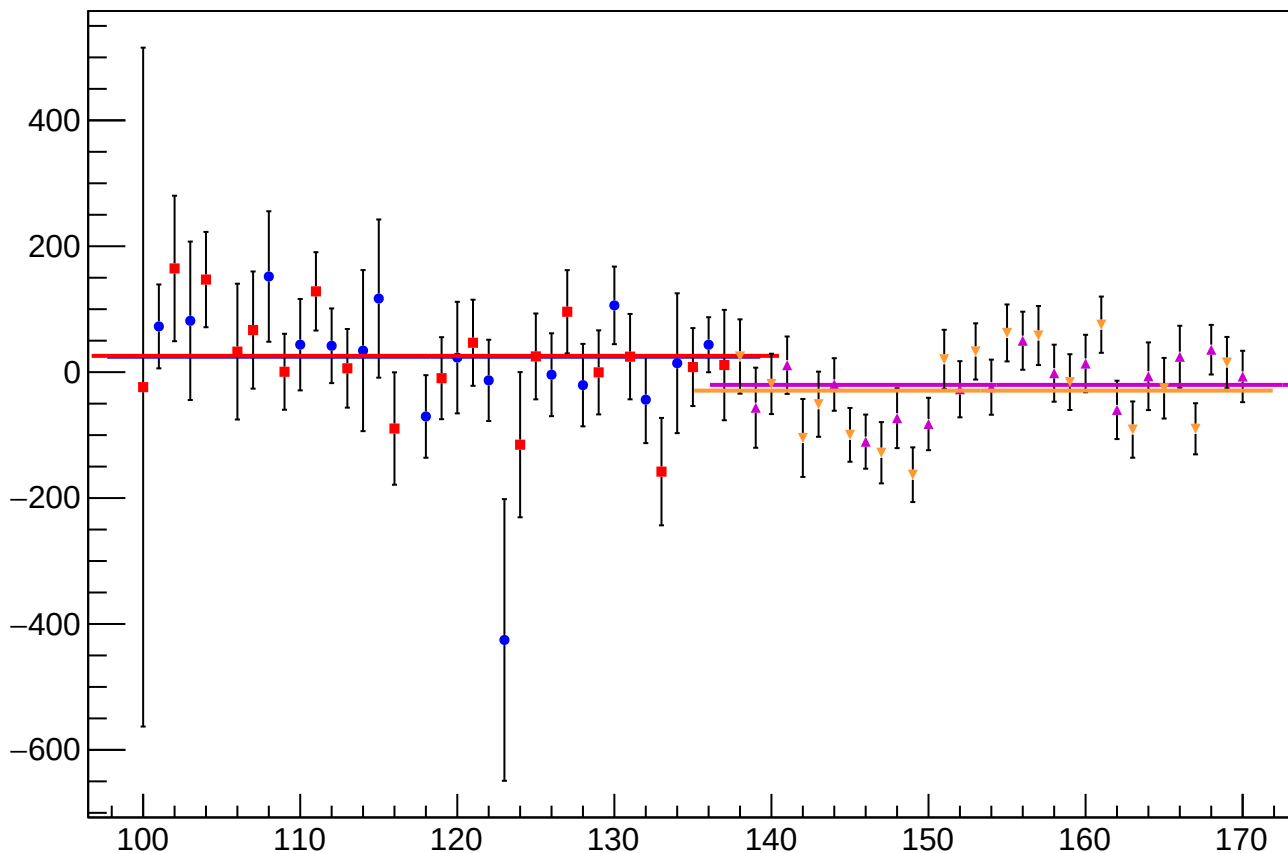
Right: 470.740 ± 0.093 $\chi^2/\text{NDF}: 1599897.5/35$

In: 374.310 ± 0.062 $\chi^2/\text{NDF}: 1721687.4/32$

Out: 378.181 ± 0.062 $\chi^2/\text{NDF}: 1841394.2/35$

All: 376.258 ± 0.044 $\chi^2/\text{NDF}: 3565043.7/68$

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 24.584 $\pm$ 17.839 χ^2 /NDF: 13.0/16

Left Out: -29.302 $\pm$ 11.244 χ^2 /NDF:40.4/16

Right Out: 25.884 $\pm$ 17.386 χ^2 /NDF: 16.8/18

Left In: -20.194 $\pm$ 11.328 χ^2 /NDF:15.5/15

Left: -24.782 $\pm$ 7.980 χ^2 /NDF: 56.2/32

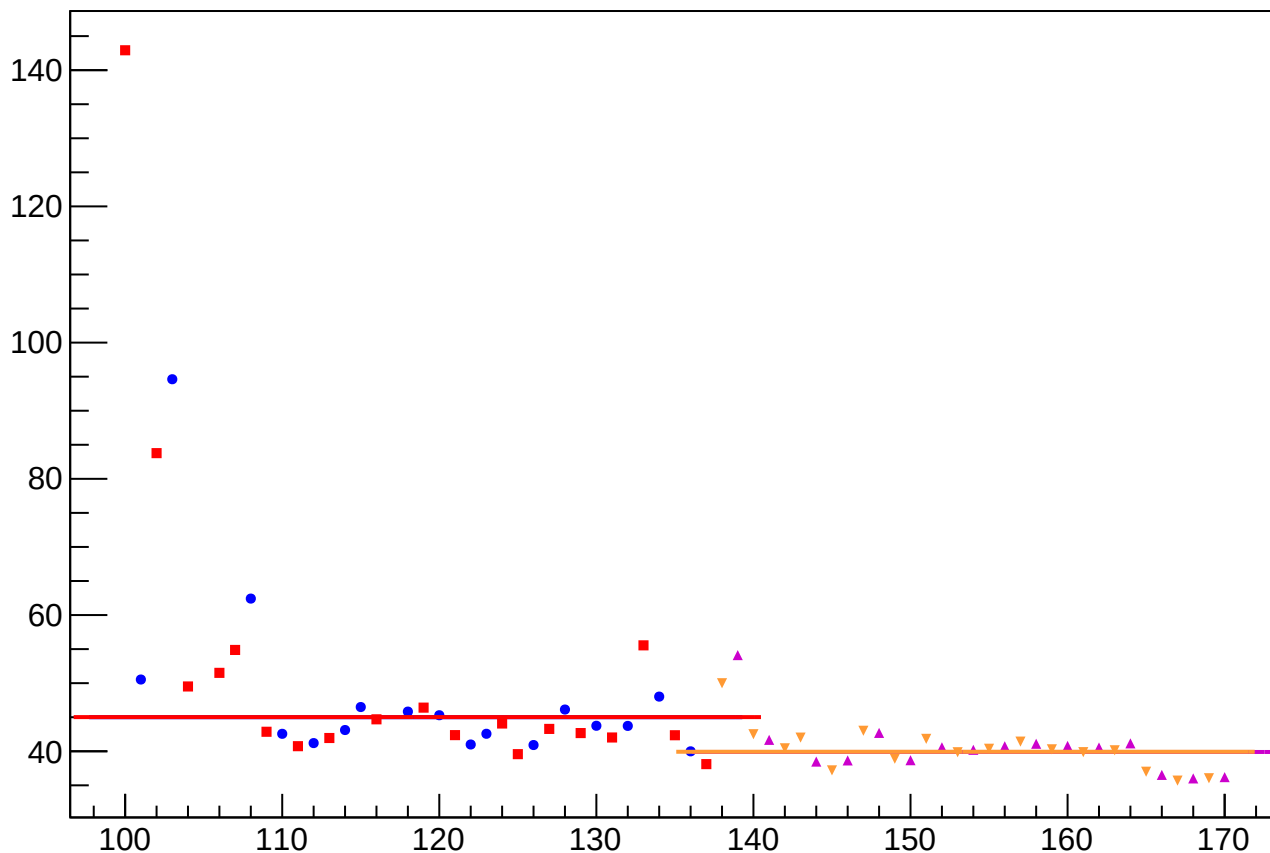
Right: 25.251 $\pm$ 12.451 χ^2 /NDF: 29.8/35

In: -7.326 $\pm$ 9.563 χ^2 /NDF:33.0/32

Out: -13.028 $\pm$ 9.442 χ^2 /NDF:64.3/35

All: -10.213 $\pm$ 6.719 χ^2 /NDF: 97.4/68

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 45.001 $\pm$ 0.013 χ^2 /NDF: 438352.8/16

Left Out: 39.928 $\pm$ 0.008 χ^2 /NDF:137676.0/16

Right Out: 45.017 $\pm$ 0.012 χ^2 /NDF: 415509.0/18

Left In: 39.897 $\pm$ 0.008 χ^2 /NDF:165628.5/15

Left: 39.912 $\pm$ 0.006 χ^2 /NDF: 303311.9/32

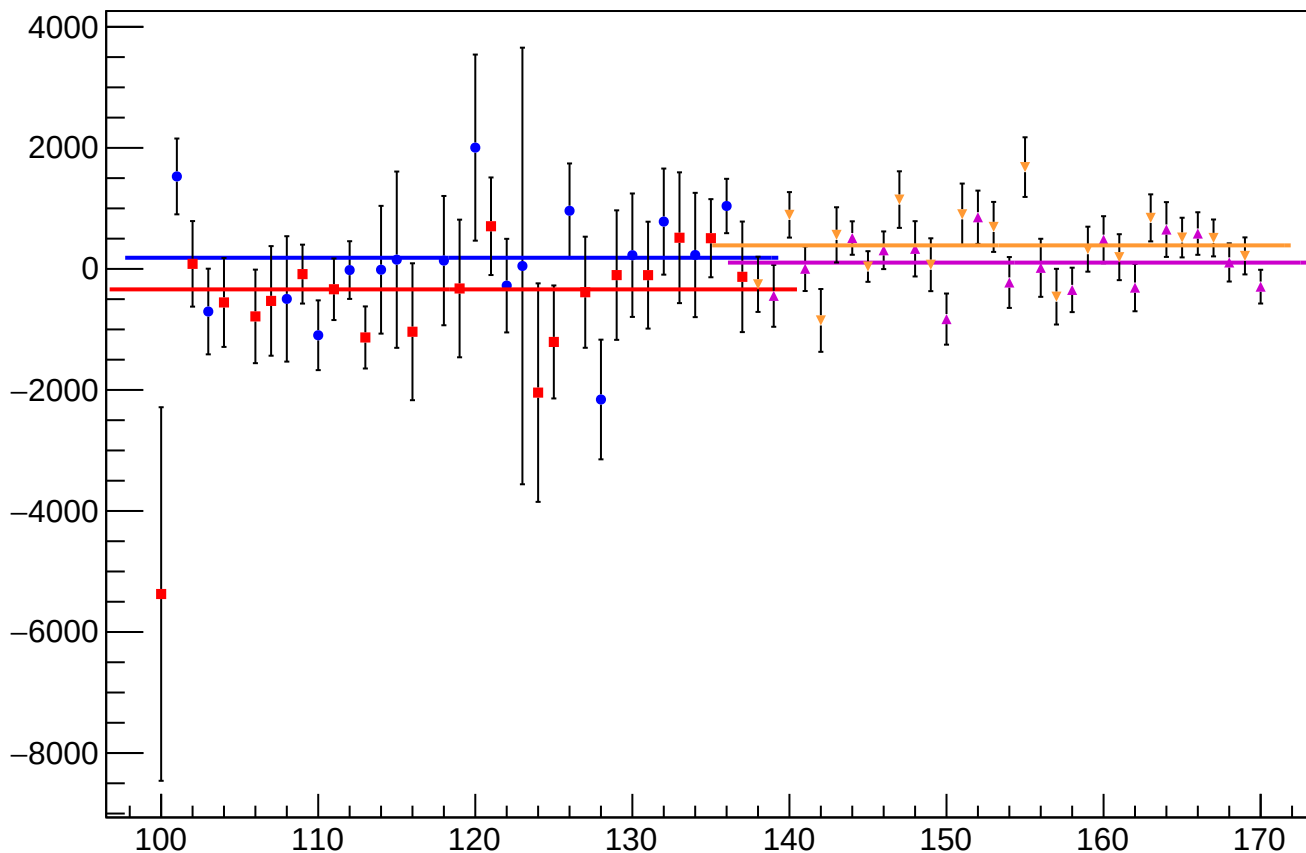
Right: 45.009 $\pm$ 0.009 χ^2 /NDF: 853862.6/35

In: 41.364 $\pm$ 0.007 χ^2 /NDF:720665.2/32

Out: 41.429 $\pm$ 0.007 χ^2 /NDF:674025.1/35

All: 41.397 $\pm$ 0.005 χ^2 /NDF: 1394736.7/68

asym_sam_15_37_dd_correction_mean vs Slug, Sign Corrected



Right In: 184.184 $\pm$ 188.558 χ^2 /NDF: 24.2/16

Left Out: 388.890 $\pm$ 92.864 χ^2 /NDF:28.9/16

Right Out: -338.329 $\pm$ 179.381 χ^2 /NDF: 12.5/18

Left In: 103.964 $\pm$ 92.603 χ^2 /NDF:21.4/15

Left: 246.026 $\pm$ 65.572 χ^2 /NDF: 55.0/32

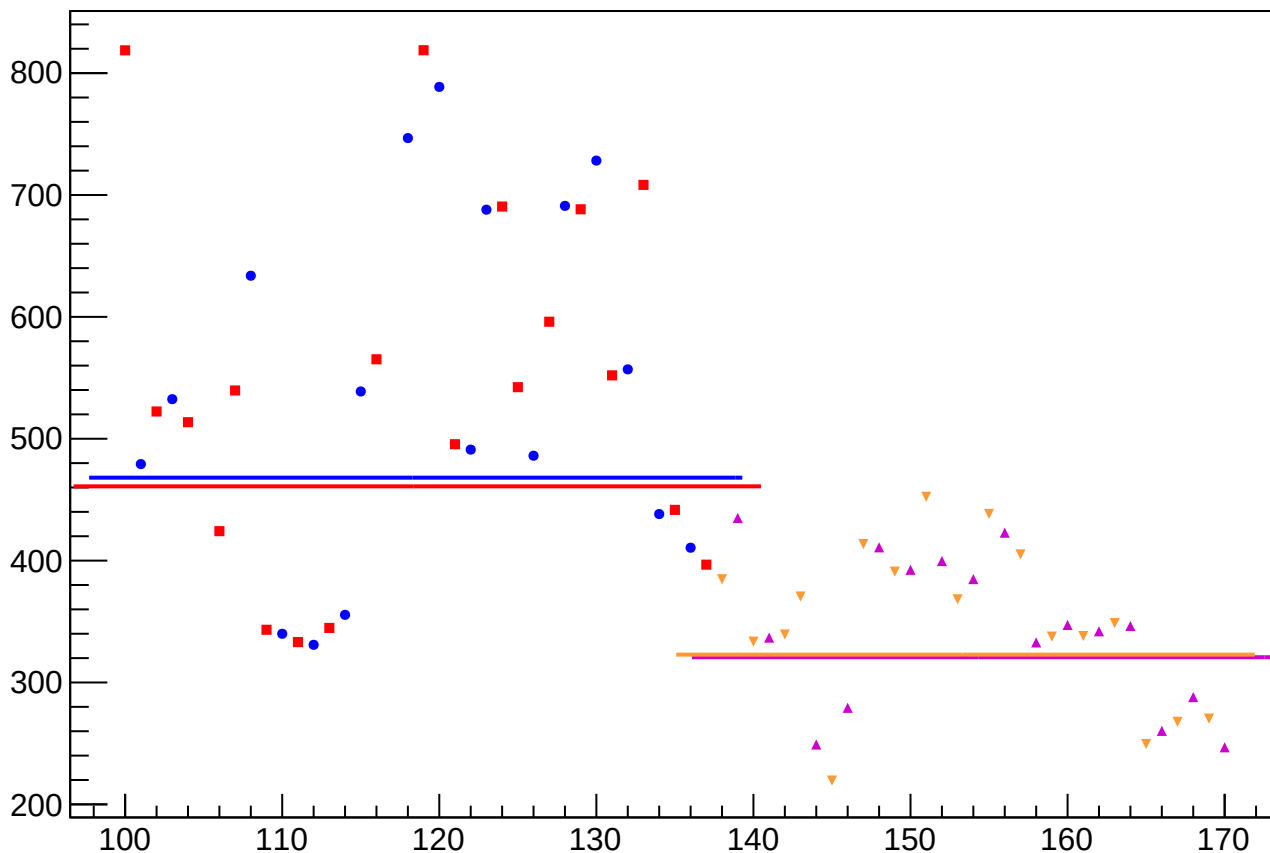
Right: -90.096 $\pm$ 129.965 χ^2 /NDF: 40.7/35

In: 119.552 $\pm$ 83.120 χ^2 /NDF:45.8/32

Out: 235.186 $\pm$ 82.468 χ^2 /NDF:54.3/35

All: 177.824 $\pm$ 58.543 χ^2 /NDF: 101.0/68

asym_sam_15_37_dd_correction_rms vs Slug, Sign Corrected



Right In: 468.071+/-0.133 χ^2/NDF : 880319.3/16

Left Out: 322.869+/-0.066 χ^2/NDF : 1086987.6/16

Right Out: 460.939+/-0.127 χ^2/NDF : 955028.5/18

Left In: 320.723+/-0.065 χ^2/NDF : 855638.3/15

Left: 321.793+/-0.046 χ^2/NDF : 1943161.3/32

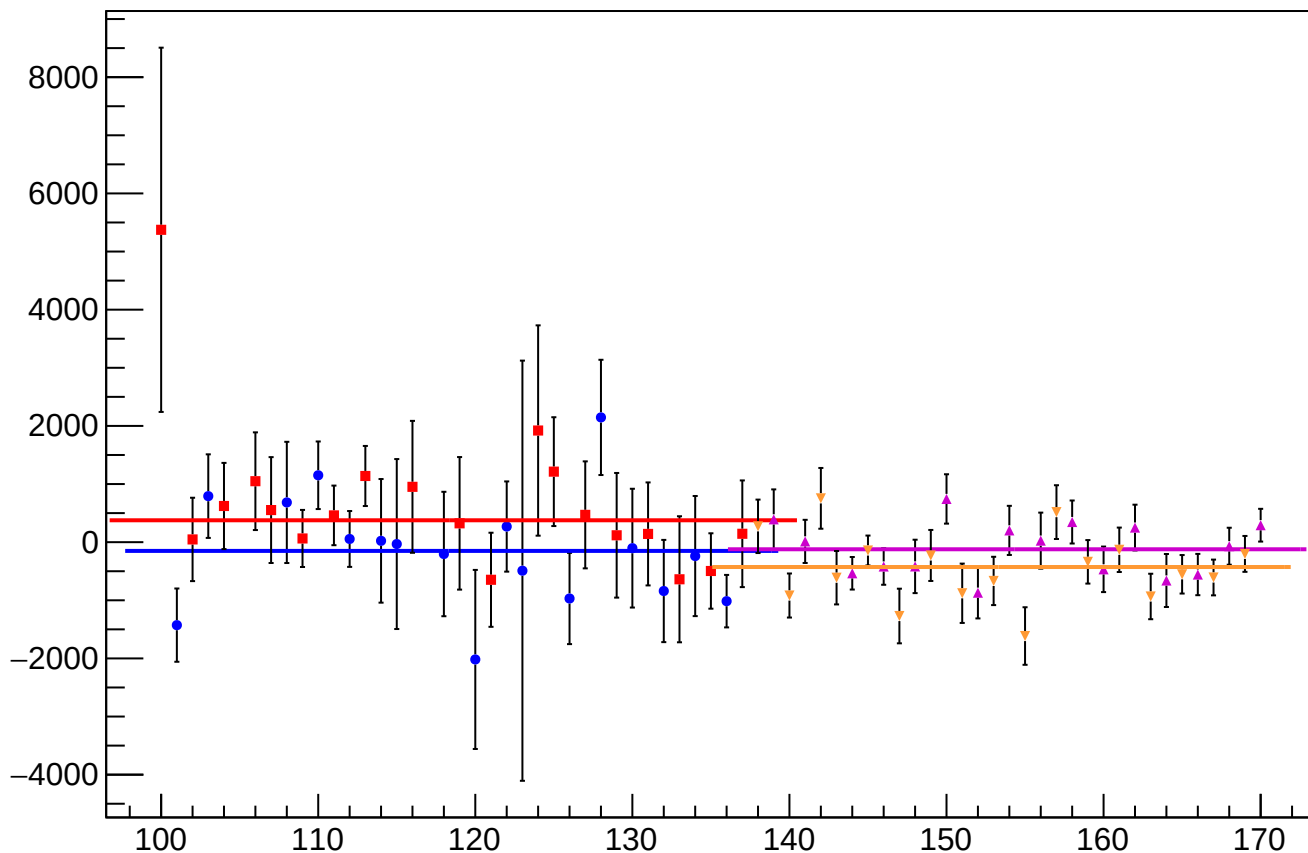
Right: 464.328+/-0.092 χ^2/NDF : 1836849.7/35

In: 349.356+/-0.059 χ^2/NDF : 2719949.3/32

Out: 352.051+/-0.058 χ^2/NDF : 2976468.4/35

All: 350.714+/-0.041 χ^2/NDF : 5697477.2/68

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -150.305 $\pm$ 189.729 χ^2 /NDF: 24.2/16

Left Out: -427.462 $\pm$ 93.635 χ^2 /NDF:28.3/16

Right Out: 376.554 $\pm$ 181.258 χ^2 /NDF: 12.4/18

Left In: -122.202 $\pm$ 93.372 χ^2 /NDF:20.7/15

Left: -274.402 $\pm$ 66.117 χ^2 /NDF: 54.3/32

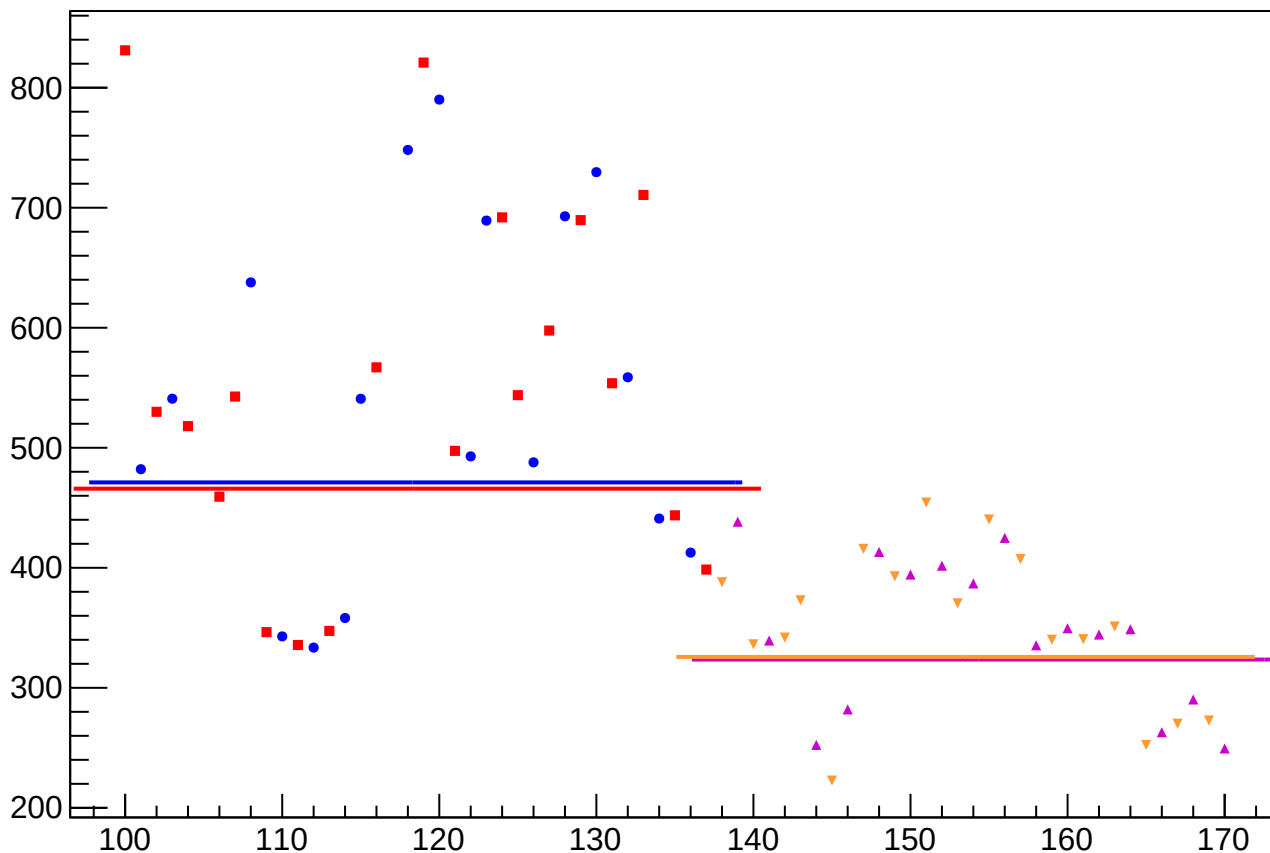
Right: 125.150 $\pm$ 131.061 χ^2 /NDF: 40.7/35

In: -127.681 $\pm$ 83.776 χ^2 /NDF:44.9/32

Out: -258.097 $\pm$ 83.191 χ^2 /NDF:56.3/35

All: -193.347 $\pm$ 59.031 χ^2 /NDF: 102.4/68

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 471.156+/-0.134 χ^2/NDF : 871832.5/16

Left Out: 325.755+/-0.066 χ^2/NDF :1059280.9/16

Right Out: 465.935+/-0.128 χ^2/NDF : 940521.6/18

Left In: 323.550+/-0.066 χ^2/NDF :835560.6/15

Left: 324.649+/-0.047 χ^2/NDF : 1895397.8/32

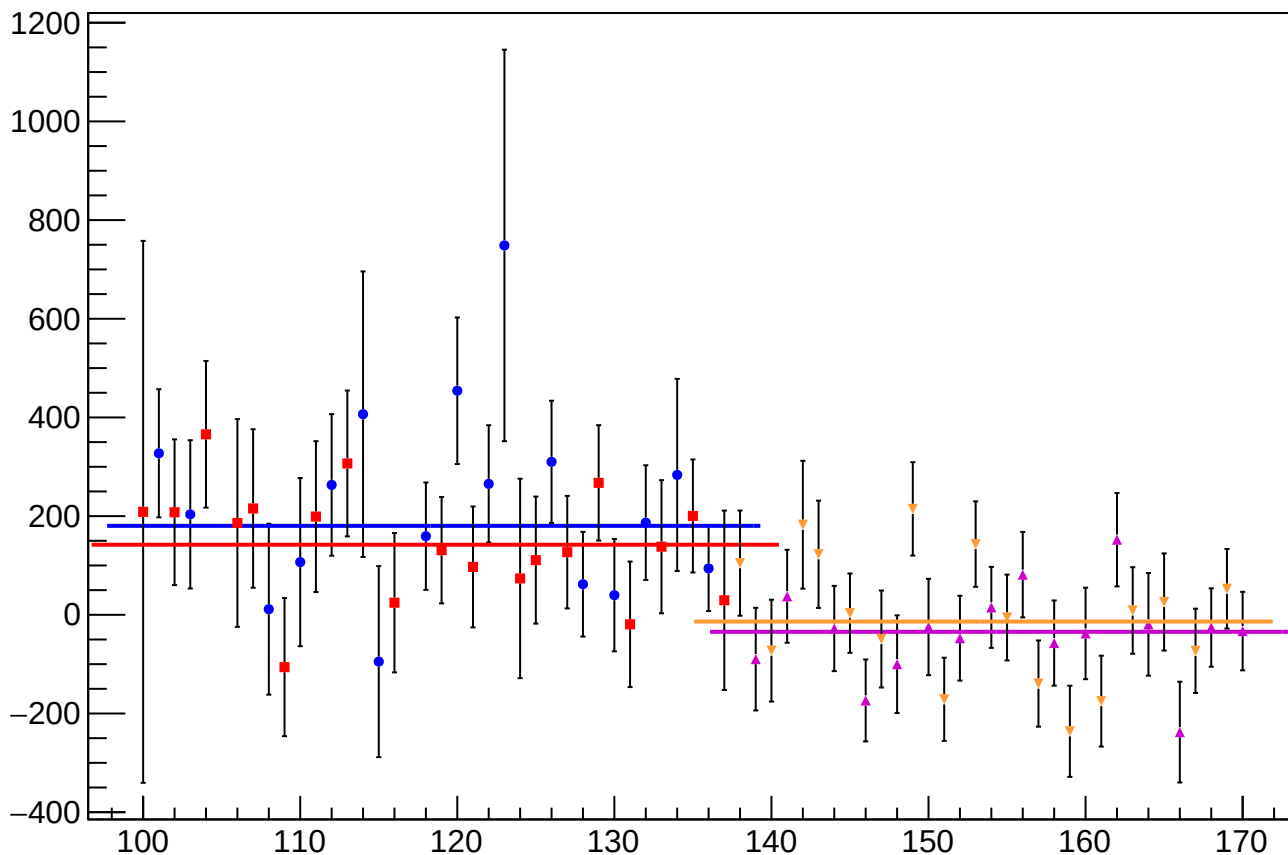
Right: 468.427+/-0.093 χ^2/NDF : 1813145.9/35

In: 352.329+/-0.059 χ^2/NDF :2681895.5/32

Out: 355.284+/-0.059 χ^2/NDF :2944041.8/35

All: 353.817+/-0.042 χ^2/NDF : 5627190.0/68

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 180.326 ± 32.769 $\chi^2/\text{NDF}: 16.6/16$

Left Out: -13.658 ± 22.401 $\chi^2/\text{NDF}: 30.5/16$

Right Out: 142.040 ± 32.338 $\chi^2/\text{NDF}: 11.7/18$

Left In: -34.421 ± 22.500 $\chi^2/\text{NDF}: 14.3/15$

Left: -23.994 ± 15.875 $\chi^2/\text{NDF}: 45.2/32$

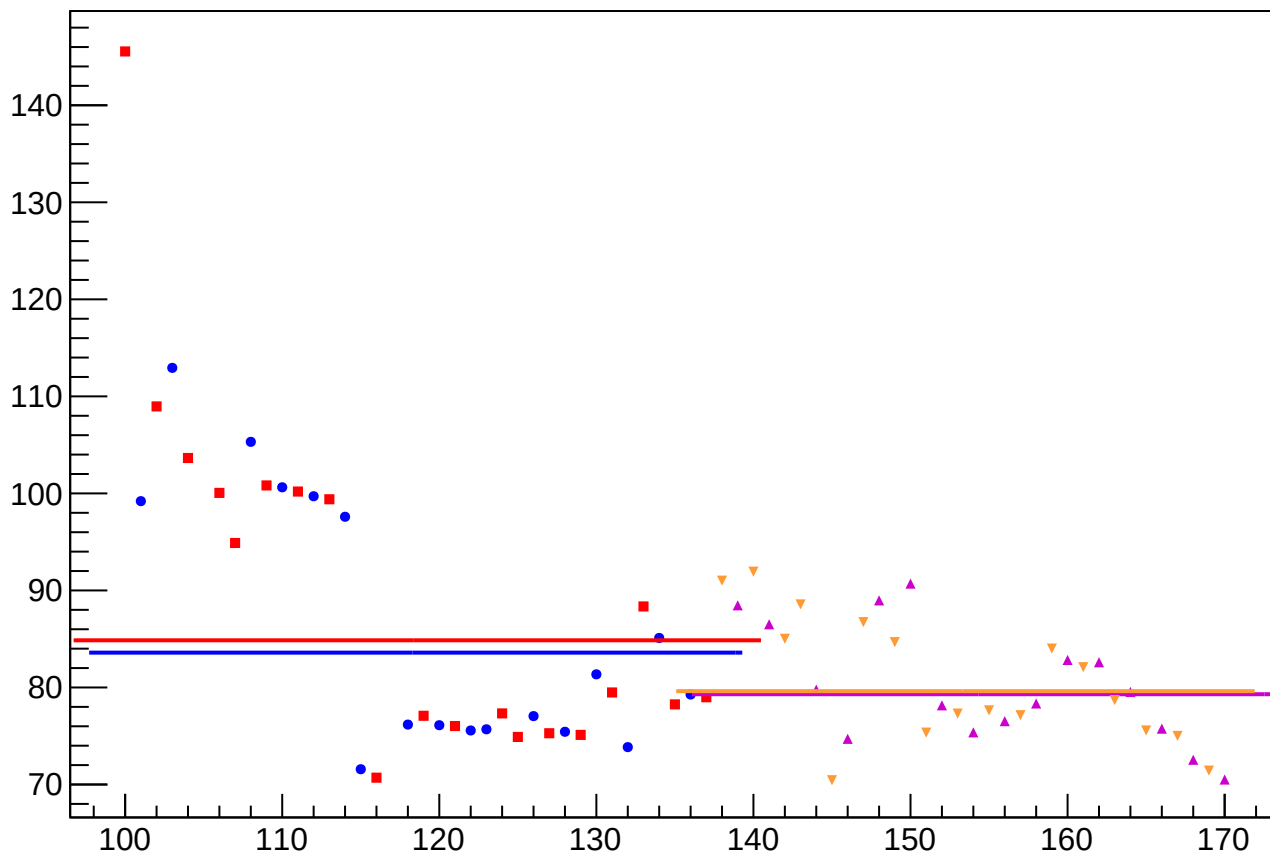
Right: 160.930 ± 23.017 $\chi^2/\text{NDF}: 28.9/35$

In: 34.384 ± 18.549 $\chi^2/\text{NDF}: 60.0/32$

Out: 36.828 ± 18.414 $\chi^2/\text{NDF}: 57.9/35$

All: 35.615 ± 13.068 $\chi^2/\text{NDF}: 117.9/68$

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 83.591 $\pm$ 0.023 χ^2 /NDF: 255921.7/16

Left Out: 79.619 $\pm$ 0.016 χ^2 /NDF:155803.4/16

Right Out: 84.861 $\pm$ 0.023 χ^2 /NDF: 290606.5/18

Left In: 79.305 $\pm$ 0.016 χ^2 /NDF:133621.0/15

Left: 79.463 $\pm$ 0.011 χ^2 /NDF: 289619.9/32

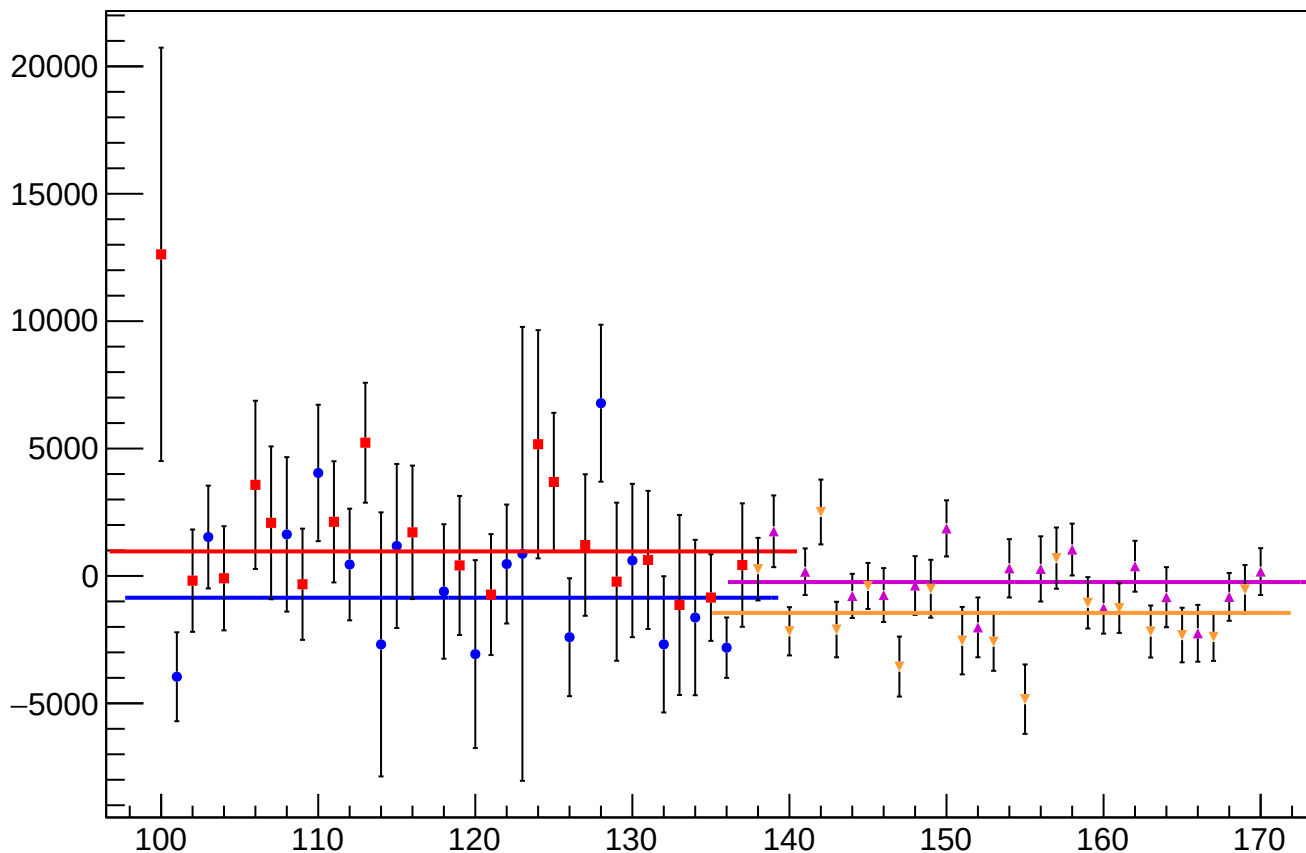
Right: 84.234 $\pm$ 0.016 χ^2 /NDF: 548050.9/35

In: 80.678 $\pm$ 0.013 χ^2 /NDF:412792.2/32

Out: 81.319 $\pm$ 0.013 χ^2 /NDF:481925.9/35

All: 81.001 $\pm$ 0.009 χ^2 /NDF: 895919.3/68

asym_sam_24_68_dd_correction_mean vs Slug, Sign Corrected



Right In: -855.308 $\pm$ 583.290 χ^2 /NDF: 20.3/16

Left Out: -1450.590 $\pm$ 261.580 χ^2 /NDF:32.2/16

Right Out: 962.932 $\pm$ 589.071 χ^2 /NDF: 11.5/18

Left In: -239.361 $\pm$ 263.494 χ^2 /NDF:16.3/15

Left: -849.390 $\pm$ 185.638 χ^2 /NDF: 59.1/32

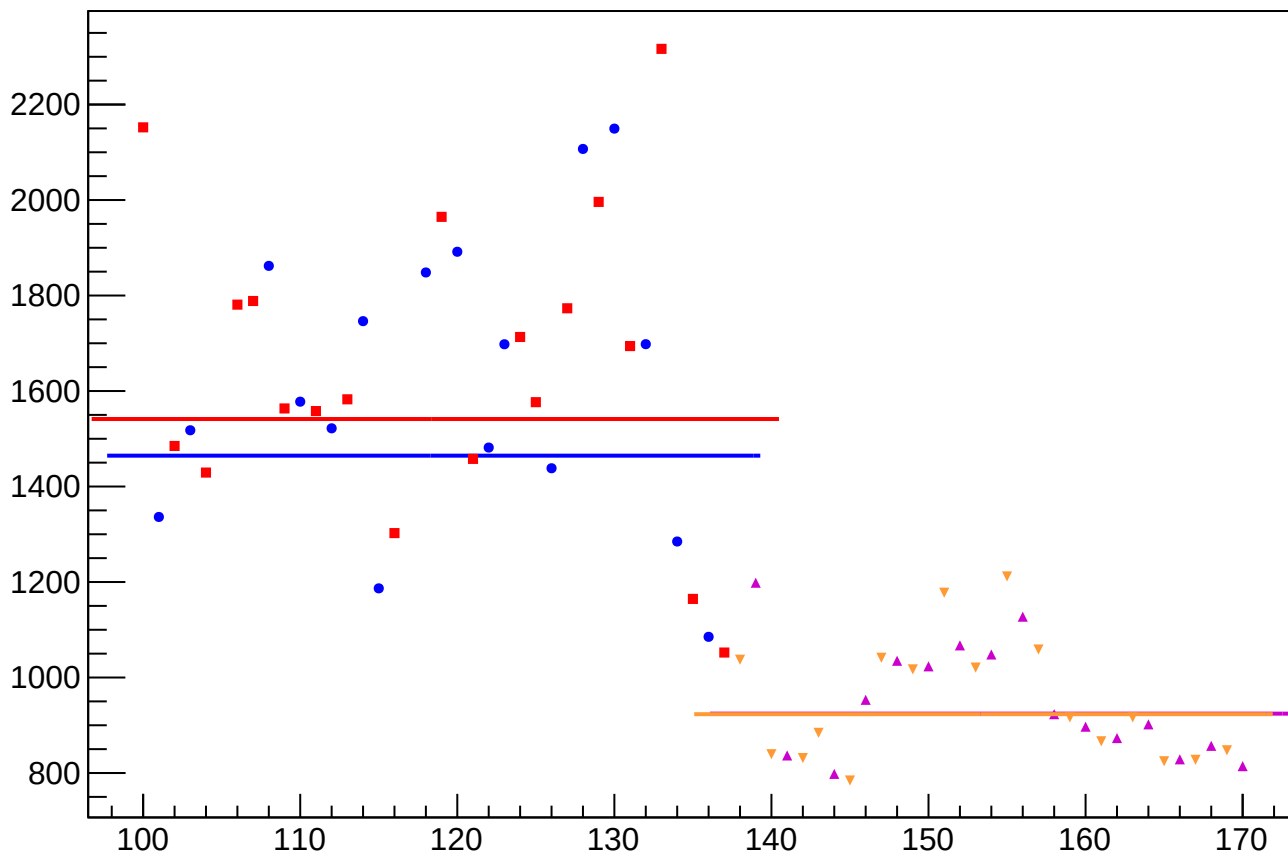
Right: 44.847 $\pm$ 414.477 χ^2 /NDF: 36.6/35

In: -343.752 $\pm$ 240.129 χ^2 /NDF:37.5/32

Out: -1053.066 $\pm$ 239.069 χ^2 /NDF:57.7/35

All: -699.978 $\pm$ 169.421 χ^2 /NDF: 99.6/68

asym_sam_24_68_dd_correction_rms vs Slug, Sign Corrected



Right In: 1464.636 $\pm$ 0.412 χ^2 /NDF: 560863.4/16

Left Out: 923.198 $\pm$ 0.185 χ^2 /NDF: 387413.1/16

Right Out: 1541.388 $\pm$ 0.417 χ^2 /NDF: 453710.5/18

Left In: 924.355 $\pm$ 0.186 χ^2 /NDF: 337270.3/15

Left: 923.772 $\pm$ 0.131 χ^2 /NDF: 724702.8/32

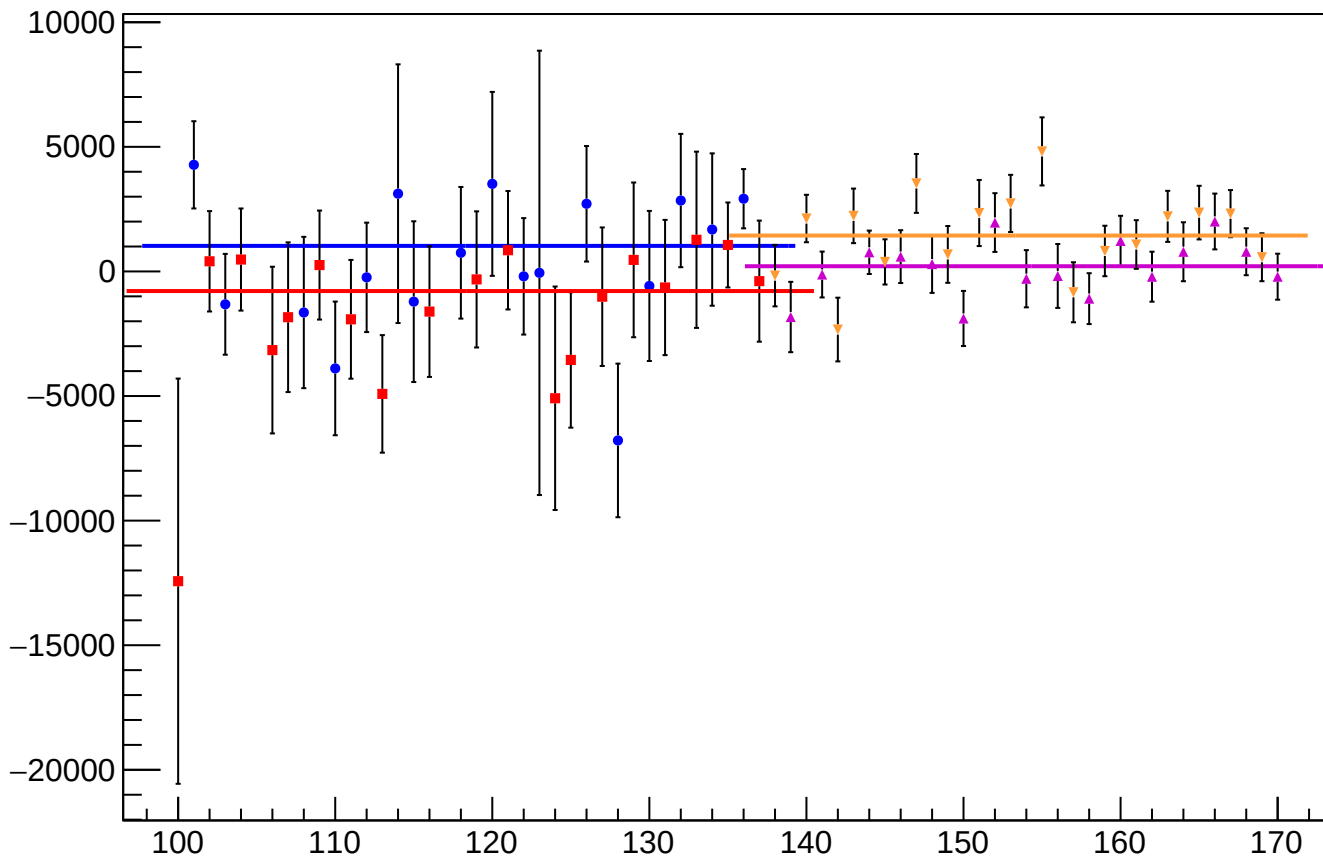
Right: 1502.634 $\pm$ 0.293 χ^2 /NDF: 1031717.7/35

In: 1015.922 $\pm$ 0.170 χ^2 /NDF: 2323246.4/32

Out: 1025.018 $\pm$ 0.169 χ^2 /NDF: 2680954.1/35

All: 1020.490 $\pm$ 0.120 χ^2 /NDF: 5005641.6/68

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1025.527 $\pm$ 584.500 χ^2/NDF : 20.9/16

Left Out: 1439.869 $\pm$ 262.634 χ^2/NDF : 31.3/16

Right Out: -787.007 $\pm$ 590.388 χ^2/NDF : 11.2/18

Left In: 208.735 $\pm$ 264.528 χ^2/NDF : 15.1/15

Left: 828.726 $\pm$ 186.376 χ^2/NDF : 57.2/32

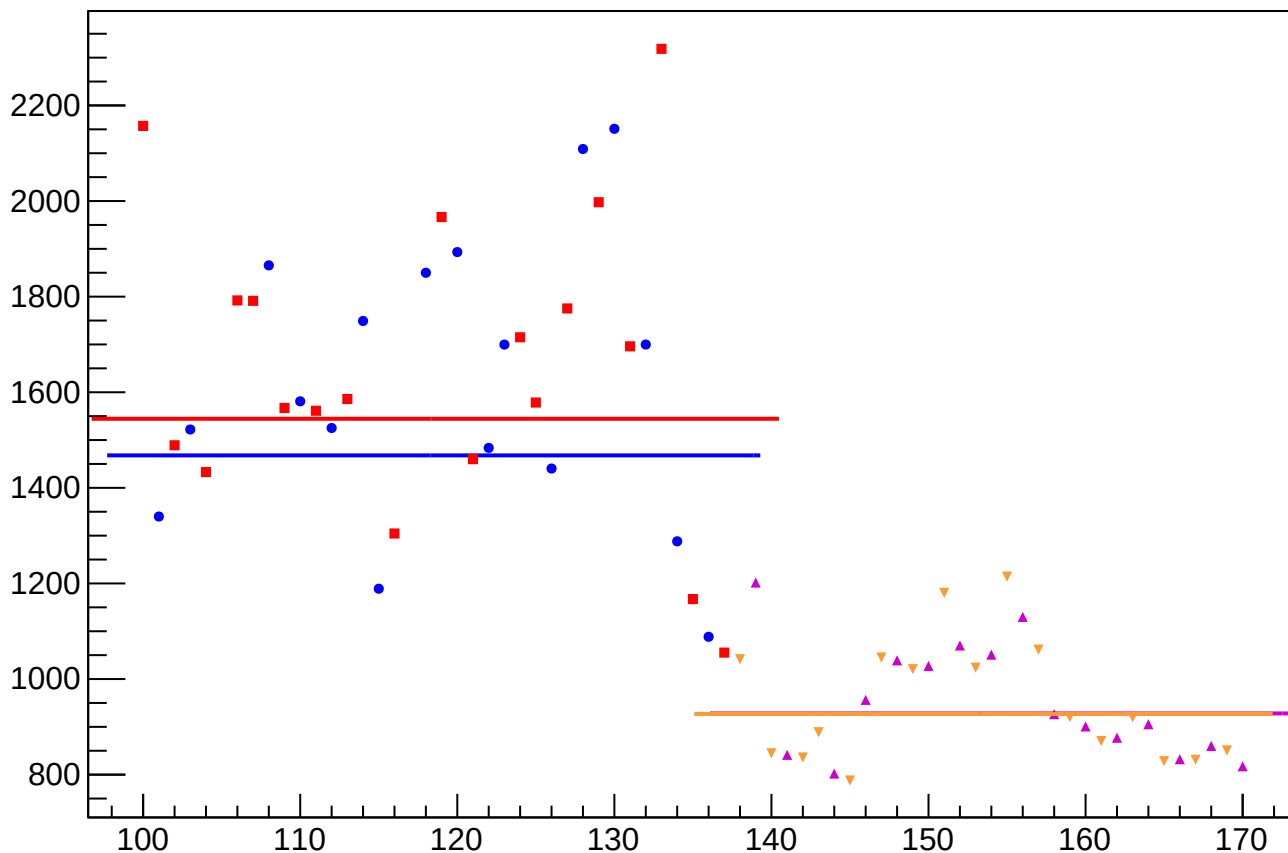
Right: 128.343 $\pm$ 415.370 χ^2/NDF : 36.9/35

In: 347.591 $\pm$ 240.996 χ^2/NDF : 37.6/32

Out: 1071.990 $\pm$ 239.962 χ^2/NDF : 54.3/35

All: 711.348 $\pm$ 170.043 χ^2/NDF : 96.5/68

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1467.905 $\pm$ 0.413 χ^2 /NDF: 557458.9/16

Left Out: 927.042 $\pm$ 0.186 χ^2 /NDF: 382927.2/16

Right Out: 1544.513 $\pm$ 0.417 χ^2 /NDF: 451805.9/18

Left In: 928.081 $\pm$ 0.187 χ^2 /NDF: 333488.3/15

Left: 927.558 $\pm$ 0.132 χ^2 /NDF: 716431.0/32

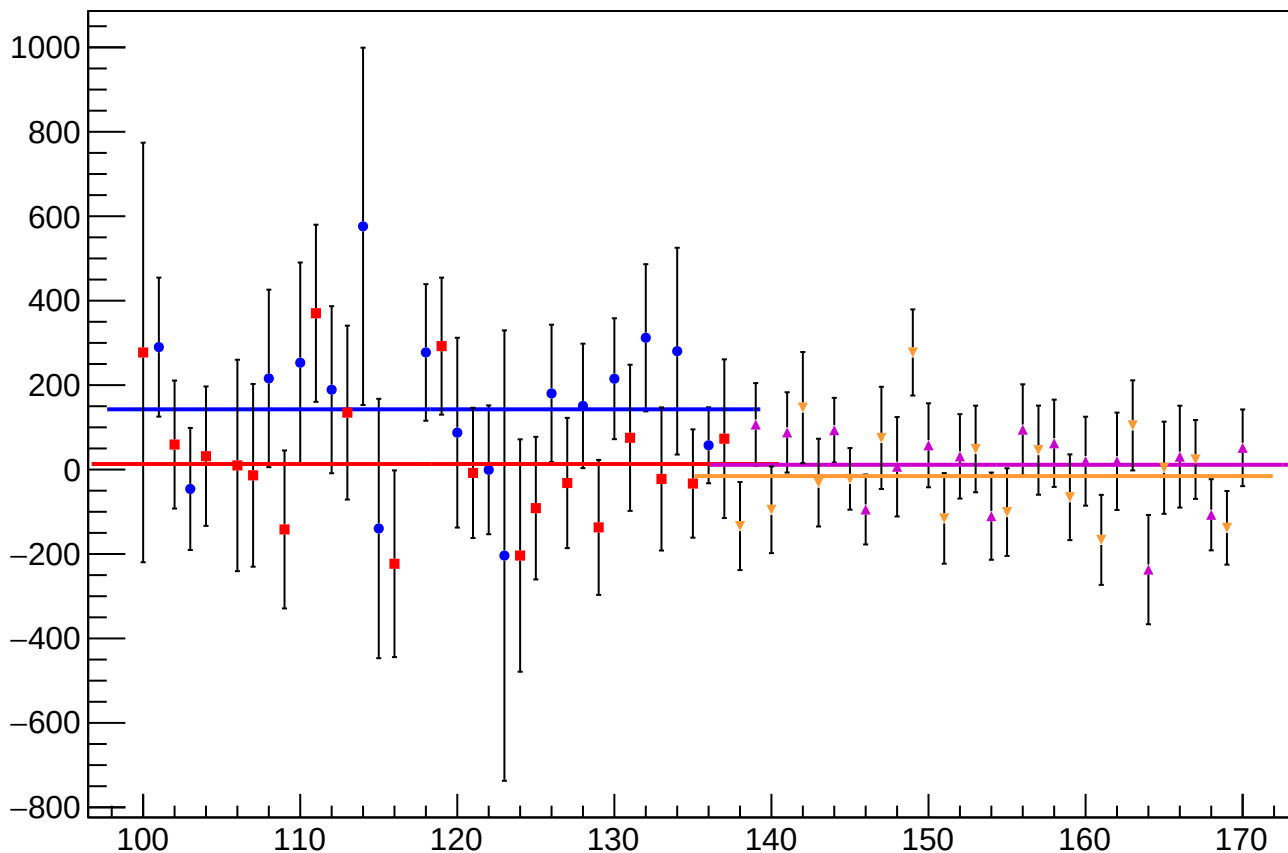
Right: 1505.825 $\pm$ 0.294 χ^2 /NDF: 1026270.9/35

In: 1019.852 $\pm$ 0.170 χ^2 /NDF: 2306883.6/32

Out: 1029.048 $\pm$ 0.170 χ^2 /NDF: 2661028.5/35

All: 1024.470 $\pm$ 0.120 χ^2 /NDF: 4969374.7/68

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 142.683 $\pm$ 41.625 χ^2 /NDF: 9.3/16

Left Out: -15.460 $\pm$ 24.570 χ^2 /NDF:20.2/16

Right Out: 13.177 $\pm$ 41.396 χ^2 /NDF: 10.8/18

Left In: 11.307 $\pm$ 24.742 χ^2 /NDF:12.7/15

Left: -2.170 $\pm$ 17.434 χ^2 /NDF: 33.6/32

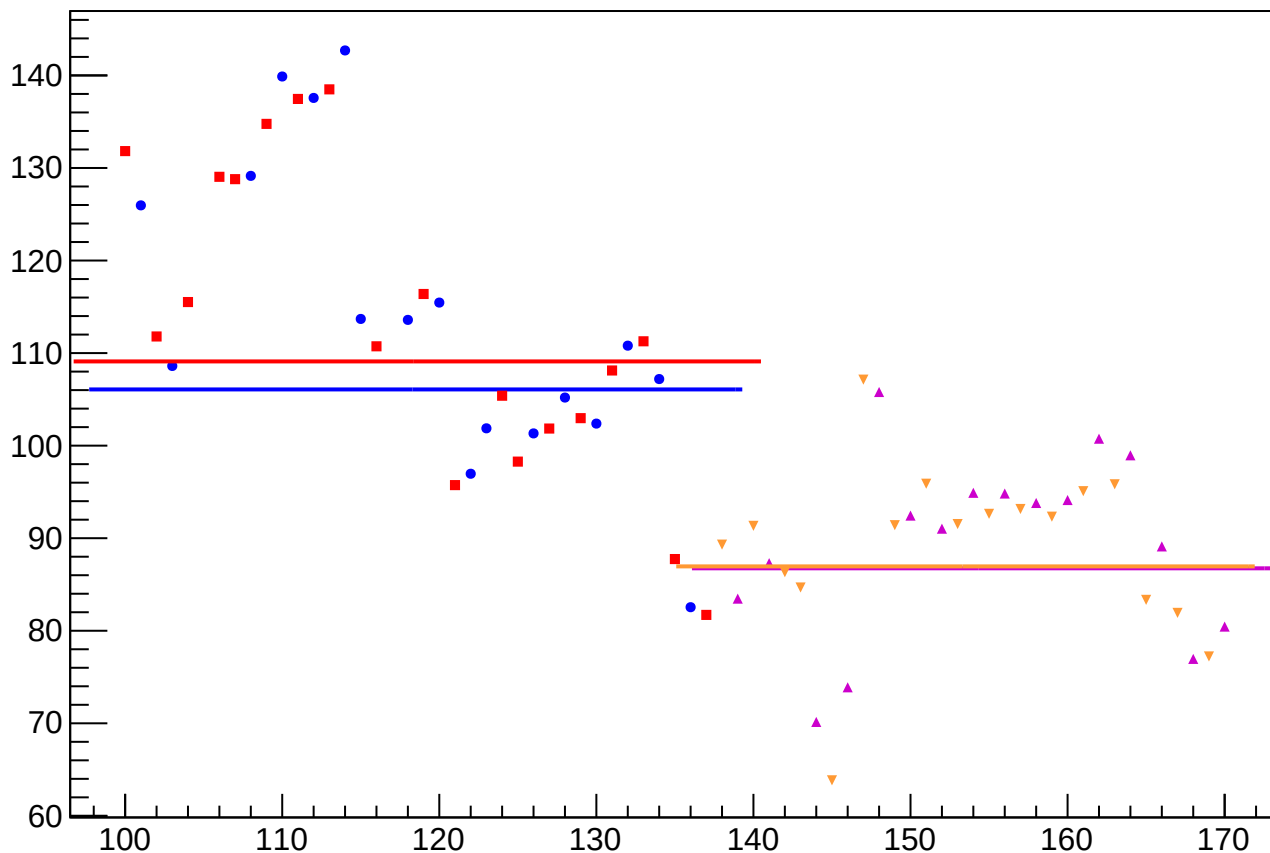
Right: 77.572 $\pm$ 29.352 χ^2 /NDF: 25.0/35

In: 45.606 $\pm$ 21.269 χ^2 /NDF:29.4/32

Out: -7.999 $\pm$ 21.128 χ^2 /NDF:31.4/35

All: 18.626 $\pm$ 14.989 χ^2 /NDF: 64.0/68

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 106.074 $\pm$ 0.029 χ^2 /NDF: 317907.9/16

Left Out: 86.954 $\pm$ 0.017 χ^2 /NDF:360247.0/16

Right Out: 109.100 $\pm$ 0.029 χ^2 /NDF: 285394.8/18

Left In: 86.745 $\pm$ 0.017 χ^2 /NDF:334422.2/15

Left: 86.851 $\pm$ 0.012 χ^2 /NDF: 694741.0/32

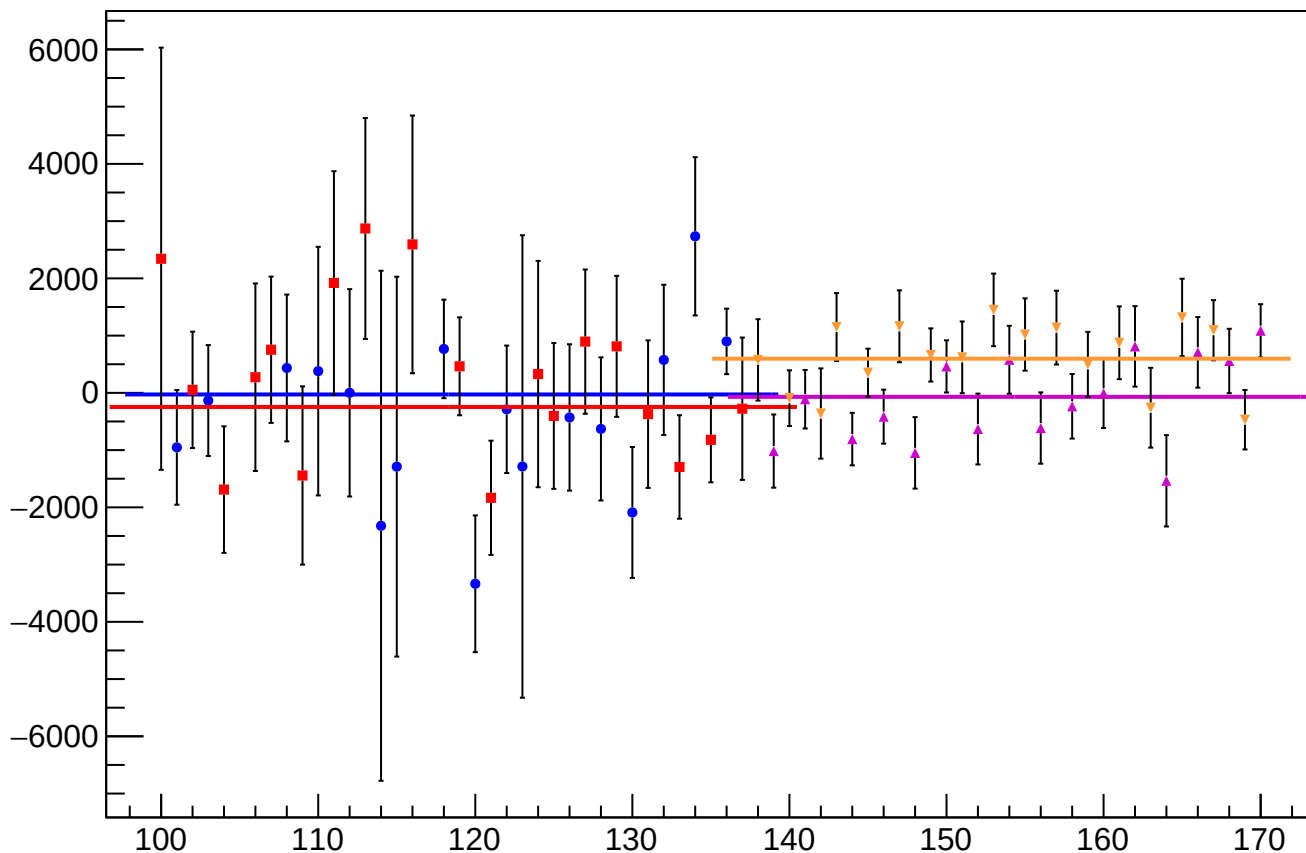
Right: 107.595 $\pm$ 0.021 χ^2 /NDF: 608619.1/35

In: 91.792 $\pm$ 0.015 χ^2 /NDF:970970.2/32

Out: 92.724 $\pm$ 0.015 χ^2 /NDF:1068932.5/35

All: 92.261 $\pm$ 0.011 χ^2 /NDF: 2041835.4/68

asym_sam_26_48_dd_correction_mean vs Slug, Sign Corrected



Right In: -27.969 $\pm$ 283.741 χ^2/NDF : 20.5/16

Left Out: 597.350 $\pm$ 140.537 χ^2/NDF :16.5/16

Right Out: -246.386 $\pm$ 279.451 χ^2/NDF : 15.9/18

Left In: -69.829 $\pm$ 140.249 χ^2/NDF :26.0/15

Left: 263.075 $\pm$ 99.273 χ^2/NDF : 53.8/32

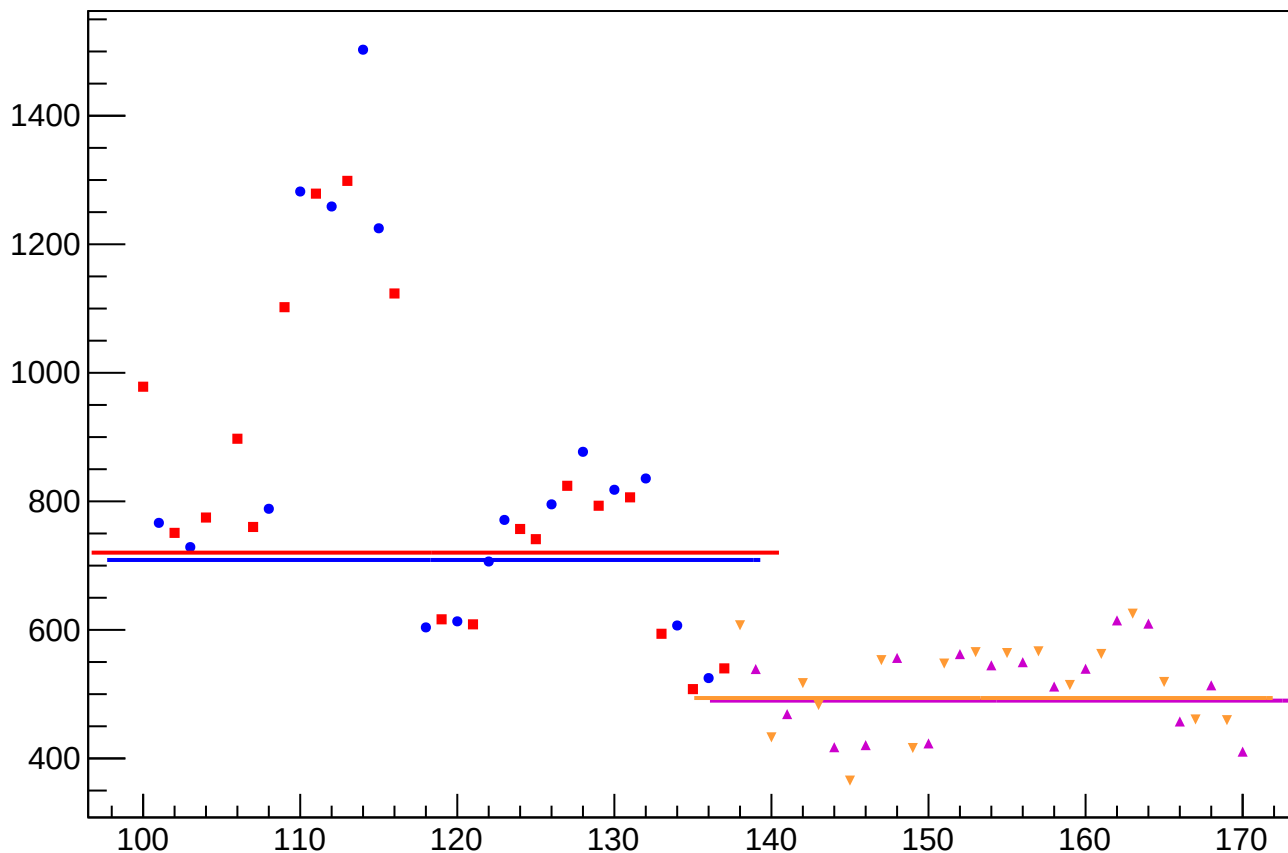
Right: -138.842 $\pm$ 199.101 χ^2/NDF : 36.7/35

In: -61.610 $\pm$ 125.729 χ^2/NDF :46.6/32

Out: 427.033 $\pm$ 125.554 χ^2/NDF :39.6/35

All: 183.051 $\pm$ 88.842 χ^2/NDF : 93.7/68

asym_sam_26_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 708.784 $\pm$ 0.201 χ^2 /NDF: 793538.1/16

Left Out: 493.981 $\pm$ 0.099 χ^2 /NDF: 553114.8/16

Right Out: 720.201 $\pm$ 0.198 χ^2 /NDF: 899934.4/18

Left In: 489.927 $\pm$ 0.099 χ^2 /NDF: 428943.1/15

Left: 491.950 $\pm$ 0.070 χ^2 /NDF: 982891.5/32

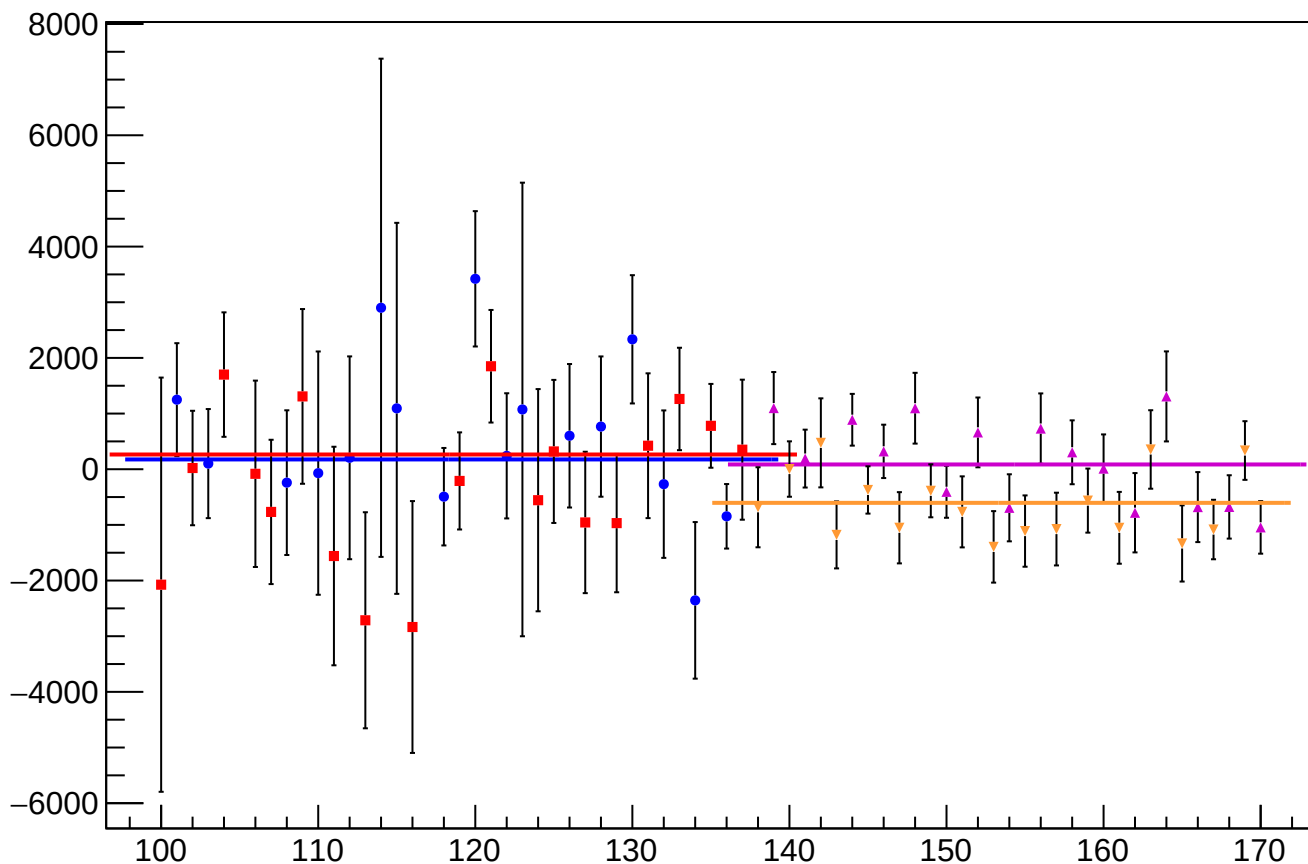
Right: 714.580 $\pm$ 0.141 χ^2 /NDF: 1695116.1/35

In: 532.899 $\pm$ 0.089 χ^2 /NDF: 2178736.4/32

Out: 539.646 $\pm$ 0.089 χ^2 /NDF: 2499117.9/35

All: 536.277 $\pm$ 0.063 χ^2 /NDF: 4680737.8/68

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 175.854 ± 287.218 χ^2/NDF : 19.7/16

Left Out: -603.925 ± 142.830 χ^2/NDF : 15.4/16

Right Out: 264.622 ± 283.074 χ^2/NDF : 14.8/18

Left In: 85.553 ± 142.555 χ^2/NDF : 25.8/15

Left: -258.520 ± 100.899 χ^2/NDF : 52.9/32

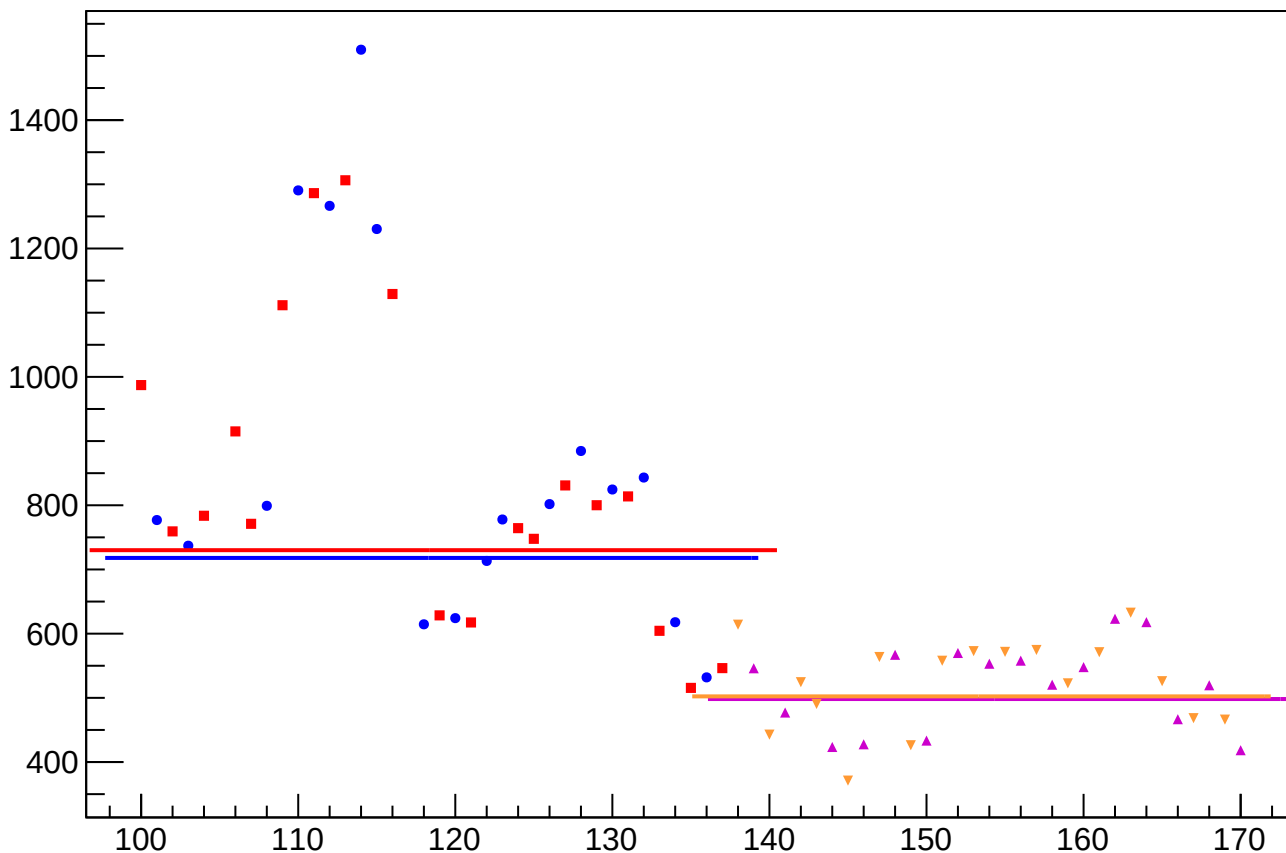
Right: 220.883 ± 201.613 χ^2/NDF : 34.6/35

In: 103.401 ± 127.692 χ^2/NDF : 45.7/32

Out: -427.674 ± 127.518 χ^2/NDF : 37.7/35

All: -162.499 ± 90.230 χ^2/NDF : 92.0/68

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 717.973 $\pm$ 0.203 χ^2 /NDF: 778580.1/16

Left Out: 502.284 $\pm$ 0.101 χ^2 /NDF: 540075.8/16

Right Out: 730.040 $\pm$ 0.200 χ^2 /NDF: 881842.0/18

Left In: 498.160 $\pm$ 0.101 χ^2 /NDF: 418231.0/15

Left: 500.218 $\pm$ 0.071 χ^2 /NDF: 959141.9/32

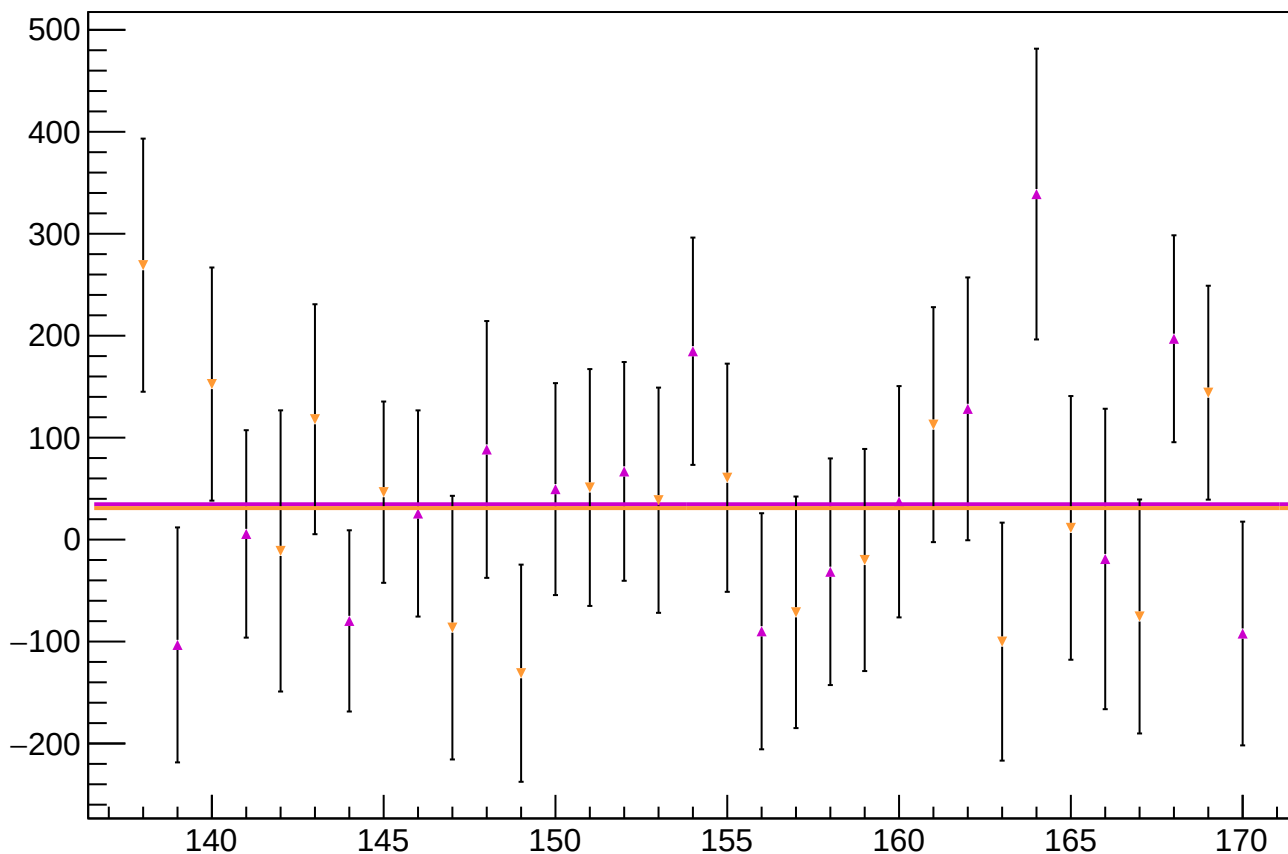
Right: 724.094 $\pm$ 0.143 χ^2 /NDF: 1662212.8/35

In: 541.607 $\pm$ 0.090 χ^2 /NDF: 2136698.2/32

Out: 548.502 $\pm$ 0.090 χ^2 /NDF: 2453892.4/35

All: 545.059 $\pm$ 0.064 χ^2 /NDF: 4593510.2/68

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 30.891 $\pm$ 27.524 χ^2 /NDF:13.6/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 34.649 $\pm$ 27.864 χ^2 /NDF:15.9/15

Left: 32.747 $\pm$ 19.582 χ^2 /NDF: 29.5/32

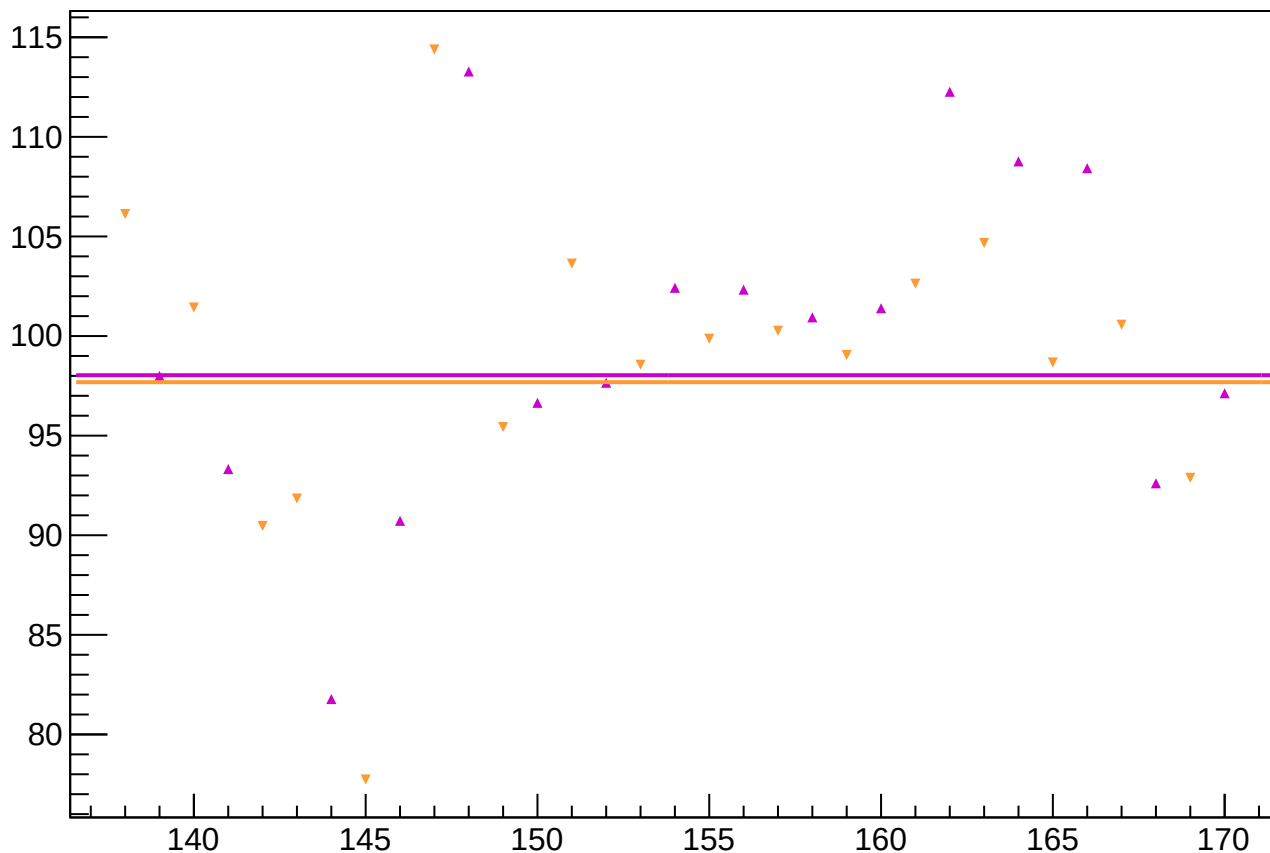
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 34.649 $\pm$ 27.864 χ^2 /NDF:15.9/15

Out: 30.891 $\pm$ 27.524 χ^2 /NDF:13.6/16

All: 32.747 $\pm$ 19.582 χ^2 /NDF: 29.5/32

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Left Out: 97.685+/-0.019 χ^2 /NDF:181075.0/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Left In: 98.035+/-0.020 χ^2 /NDF:171804.8/15

Left: 97.858+/-0.014 χ^2 /NDF: 353039.4/32

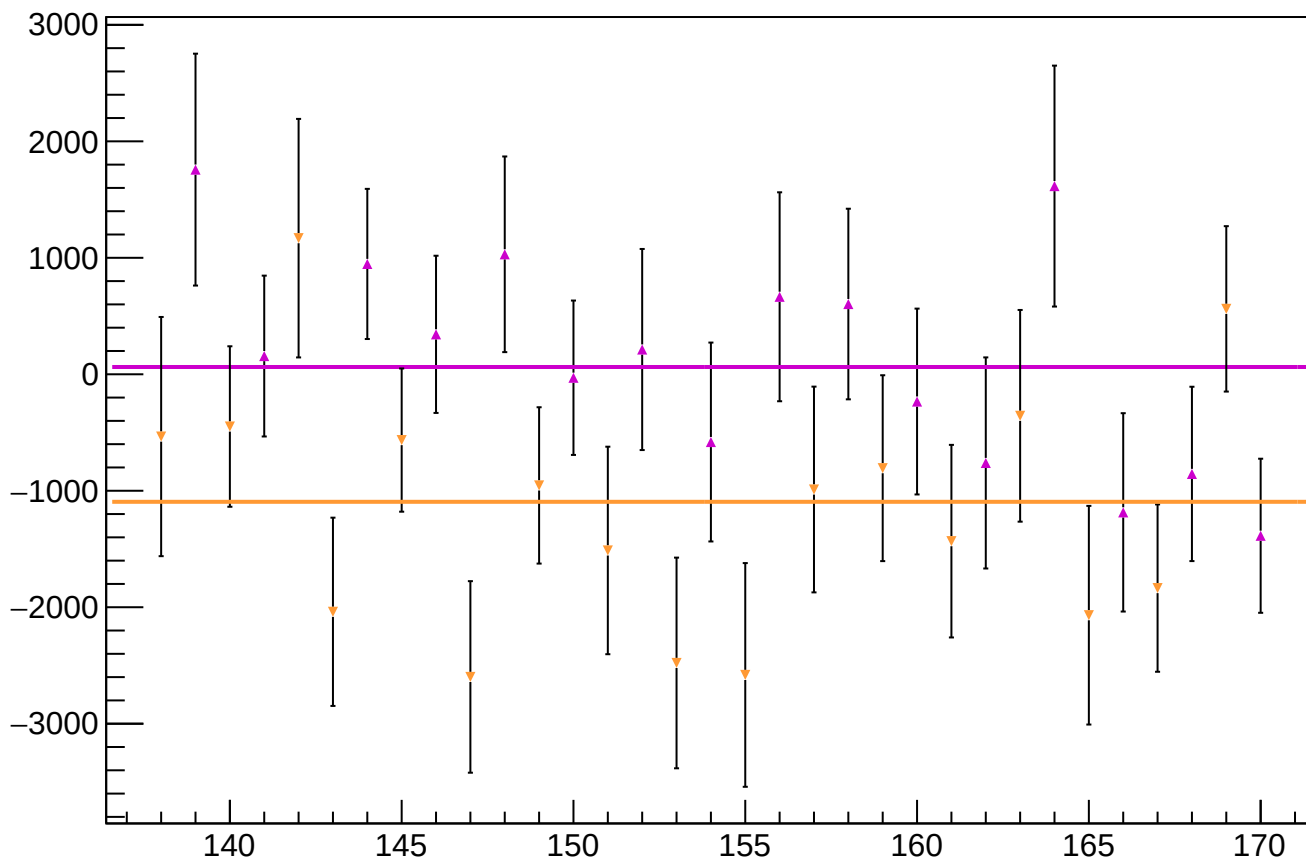
Right: 0.000+/-0.000 χ^2 /NDF: 0.0/0

In: 98.035+/-0.020 χ^2 /NDF:171804.8/15

Out: 97.685+/-0.019 χ^2 /NDF:181075.0/16

All: 97.858+/-0.014 χ^2 /NDF: 353039.4/32

asym_sam_1548_avg_correction_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: -1094.837 $\pm$ 195.984 χ^2 /NDF:25.1/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 62.526 $\pm$ 196.009 χ^2 /NDF:19.5/15

Left: -516.229 $\pm$ 138.590 χ^2 /NDF: 62.0/32

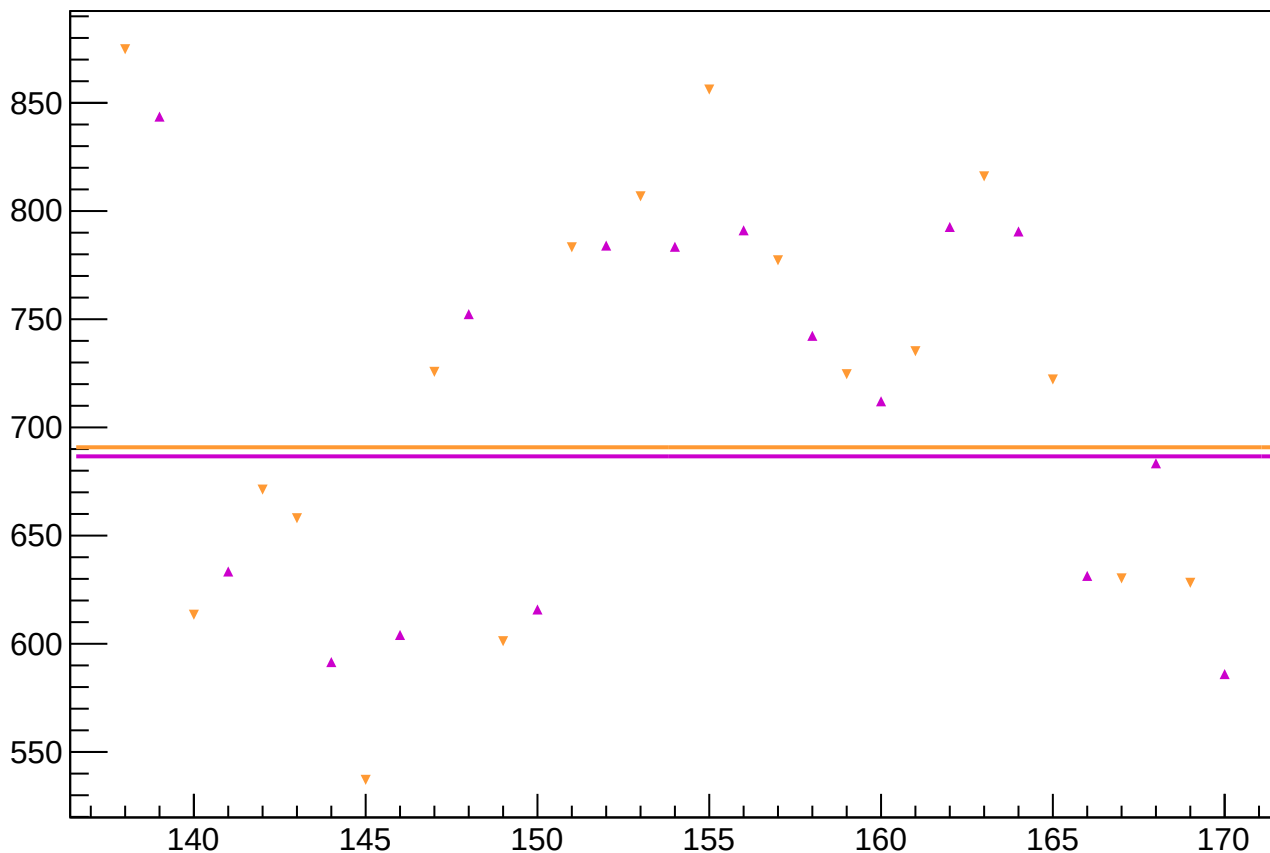
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 62.526 $\pm$ 196.009 χ^2 /NDF:19.5/15

Out: -1094.837 $\pm$ 195.984 χ^2 /NDF:25.1/16

All: -516.229 $\pm$ 138.590 χ^2 /NDF: 62.0/32

asym_sam_1548_avg_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 690.823+/-0.139 χ^2/NDF : 469964.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 686.623+/-0.139 χ^2/NDF : 362132.5/15

Left: 688.723+/-0.098 χ^2/NDF : 832556.1/32

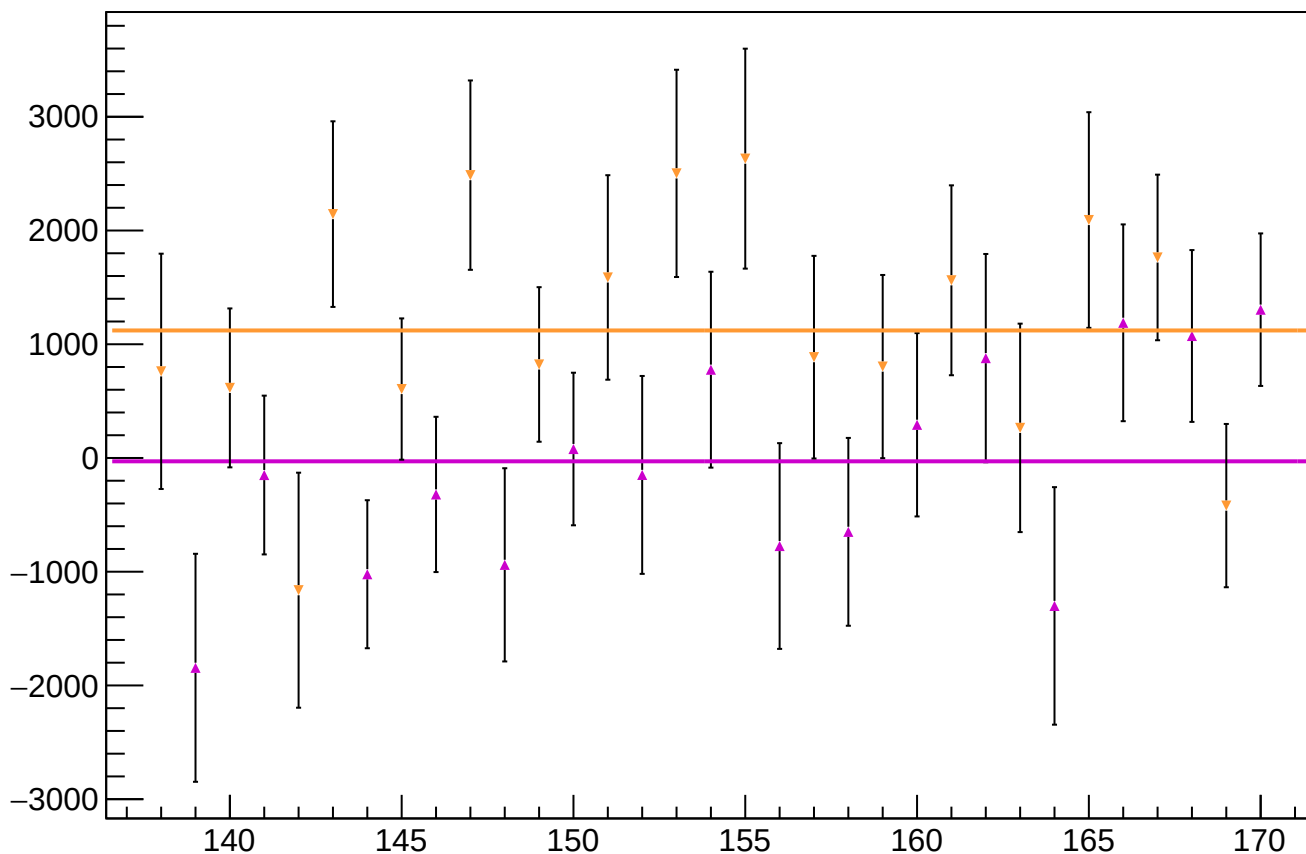
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 686.623+/-0.139 χ^2/NDF : 362132.5/15

Out: 690.823+/-0.139 χ^2/NDF : 469964.5/16

All: 688.723+/-0.098 χ^2/NDF : 832556.1/32

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 1121.283+/-198.032 χ^2/NDF :23.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -29.352+/-198.097 χ^2/NDF :19.8/15

Left: 546.154+/-140.053 χ^2/NDF : 60.2/32

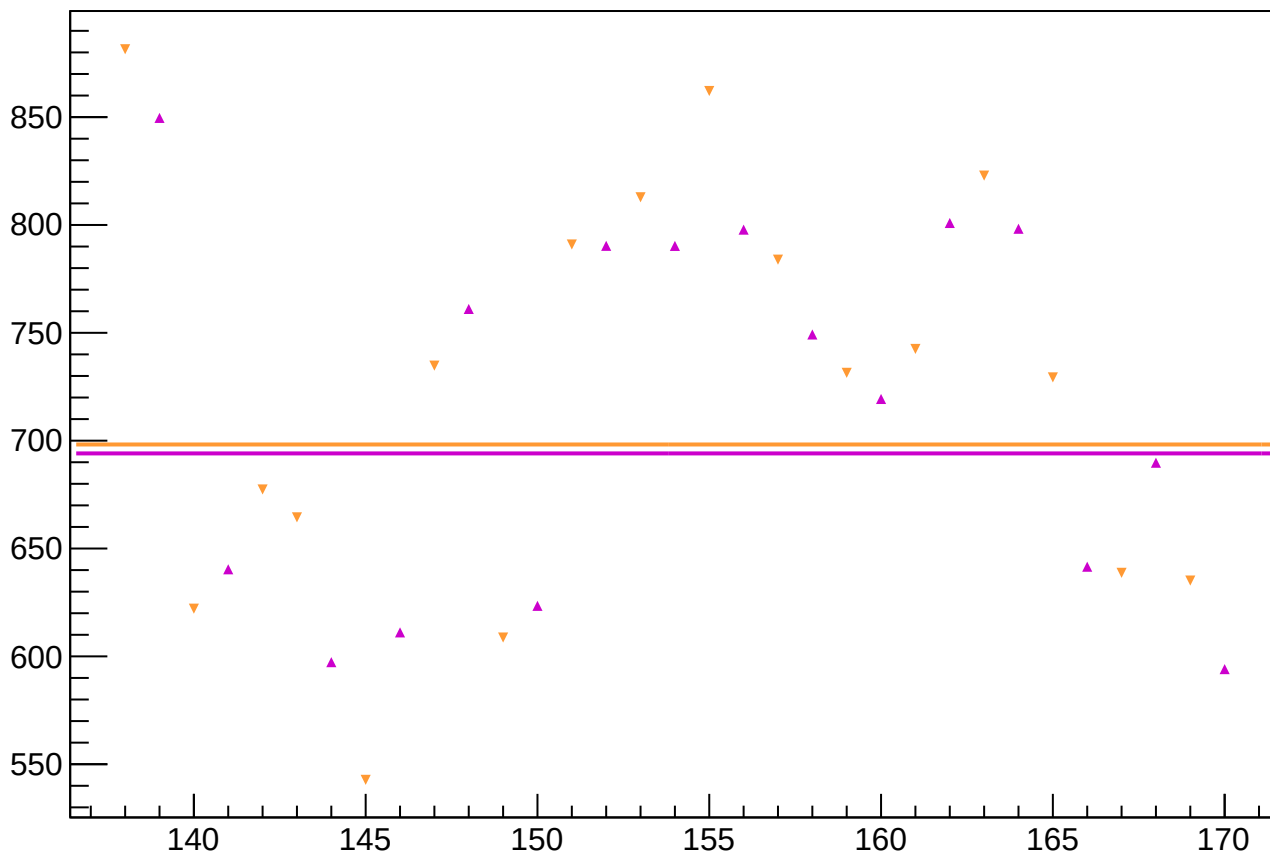
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -29.352+/-198.097 χ^2/NDF :19.8/15

Out: 1121.283+/-198.032 χ^2/NDF :23.5/16

All: 546.154+/-140.053 χ^2/NDF : 60.2/32

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 698.233+/-0.140 χ^2/NDF : 460440.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 694.094+/-0.140 χ^2/NDF : 354067.3/15

Left: 696.164+/-0.099 χ^2/NDF : 814943.9/32

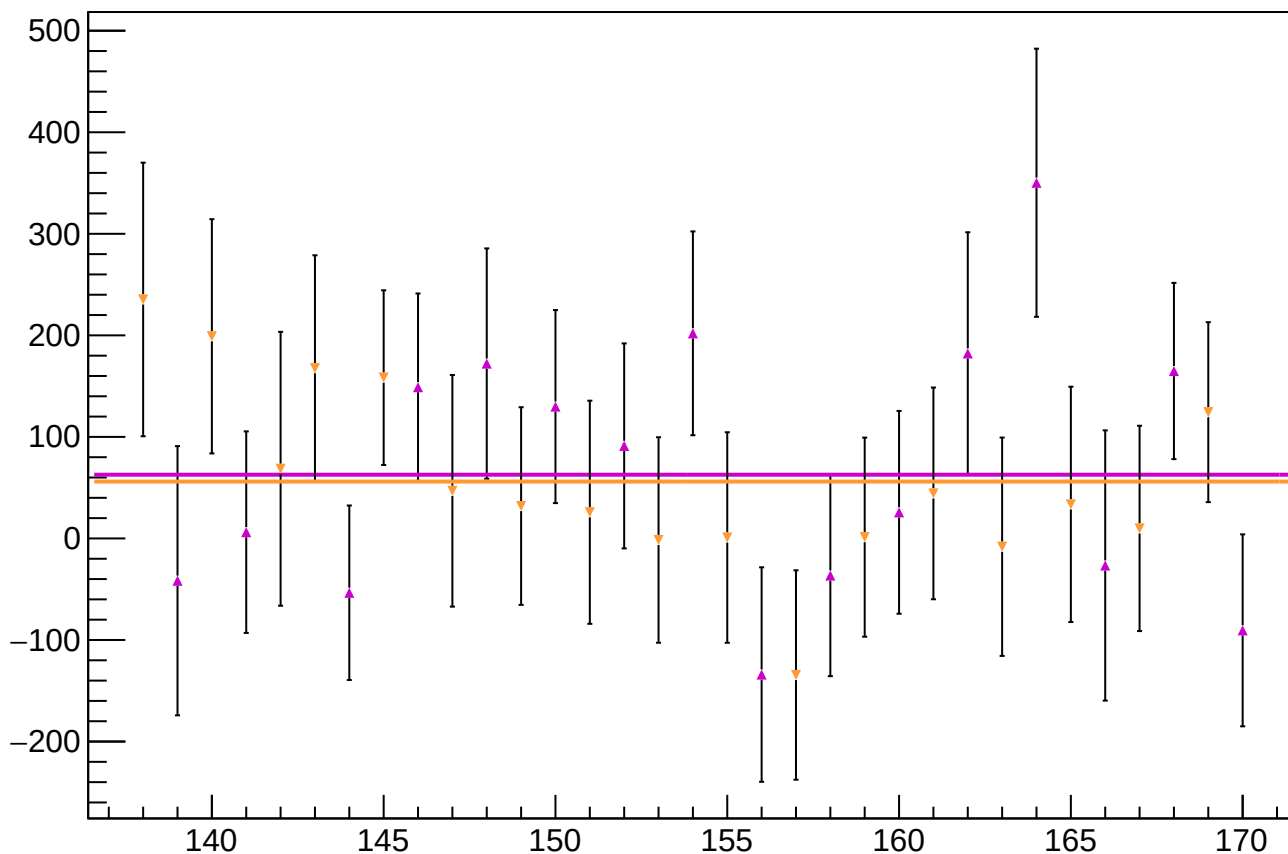
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 694.094+/-0.140 χ^2/NDF : 354067.3/15

Out: 698.233+/-0.140 χ^2/NDF : 460440.0/16

All: 696.164+/-0.099 χ^2/NDF : 814943.9/32

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 56.005 $\pm$ 25.536 χ^2 /NDF:11.4/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 62.778 $\pm$ 25.669 χ^2 /NDF:21.9/15

Left: 59.374 $\pm$ 18.103 χ^2 /NDF: 33.4/32

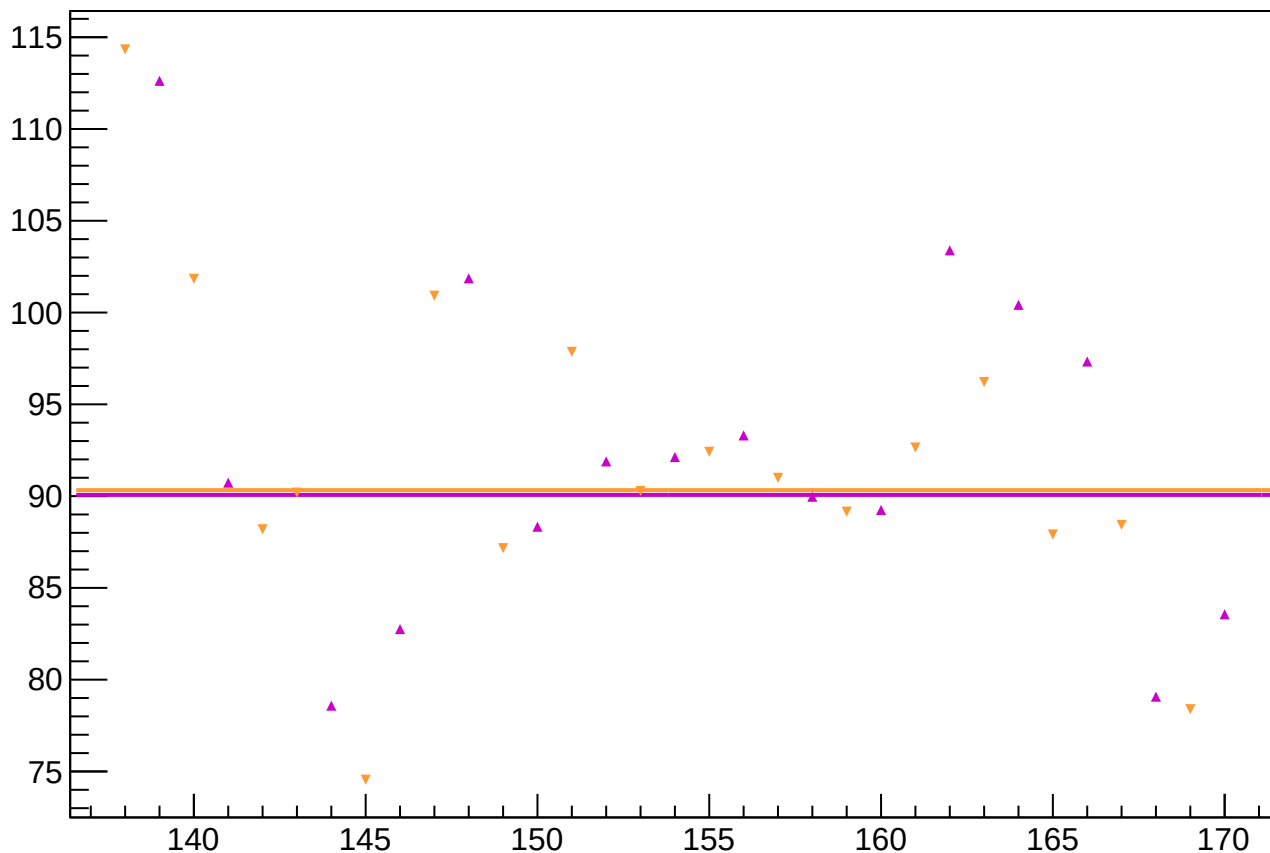
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 62.778 $\pm$ 25.669 χ^2 /NDF:21.9/15

Out: 56.005 $\pm$ 25.536 χ^2 /NDF:11.4/16

All: 59.374 $\pm$ 18.103 χ^2 /NDF: 33.4/32

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 90.326+/-0.018 χ^2/NDF :226030.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 90.066+/-0.018 χ^2/NDF :216868.2/15

Left: 90.197+/-0.013 χ^2/NDF : 443001.8/32

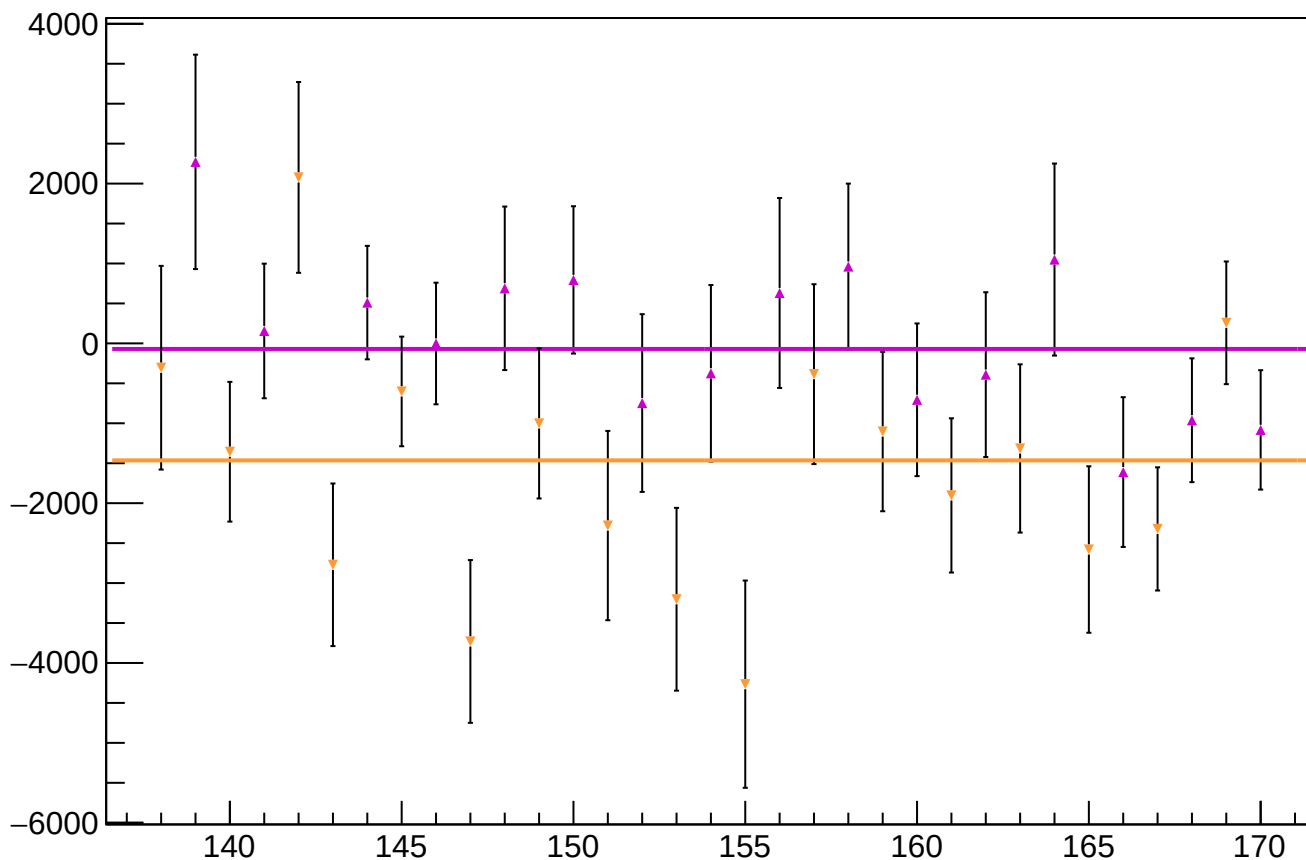
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 90.066+/-0.018 χ^2/NDF :216868.2/15

Out: 90.326+/-0.018 χ^2/NDF :226030.2/16

All: 90.197+/-0.013 χ^2/NDF : 443001.8/32

asym_sam_3748_avg_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -1464.129+/-236.009 χ^2/NDF :34.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -69.511+/-233.178 χ^2/NDF :14.3/15

Left: -758.407+/-165.874 χ^2/NDF : 66.2/32

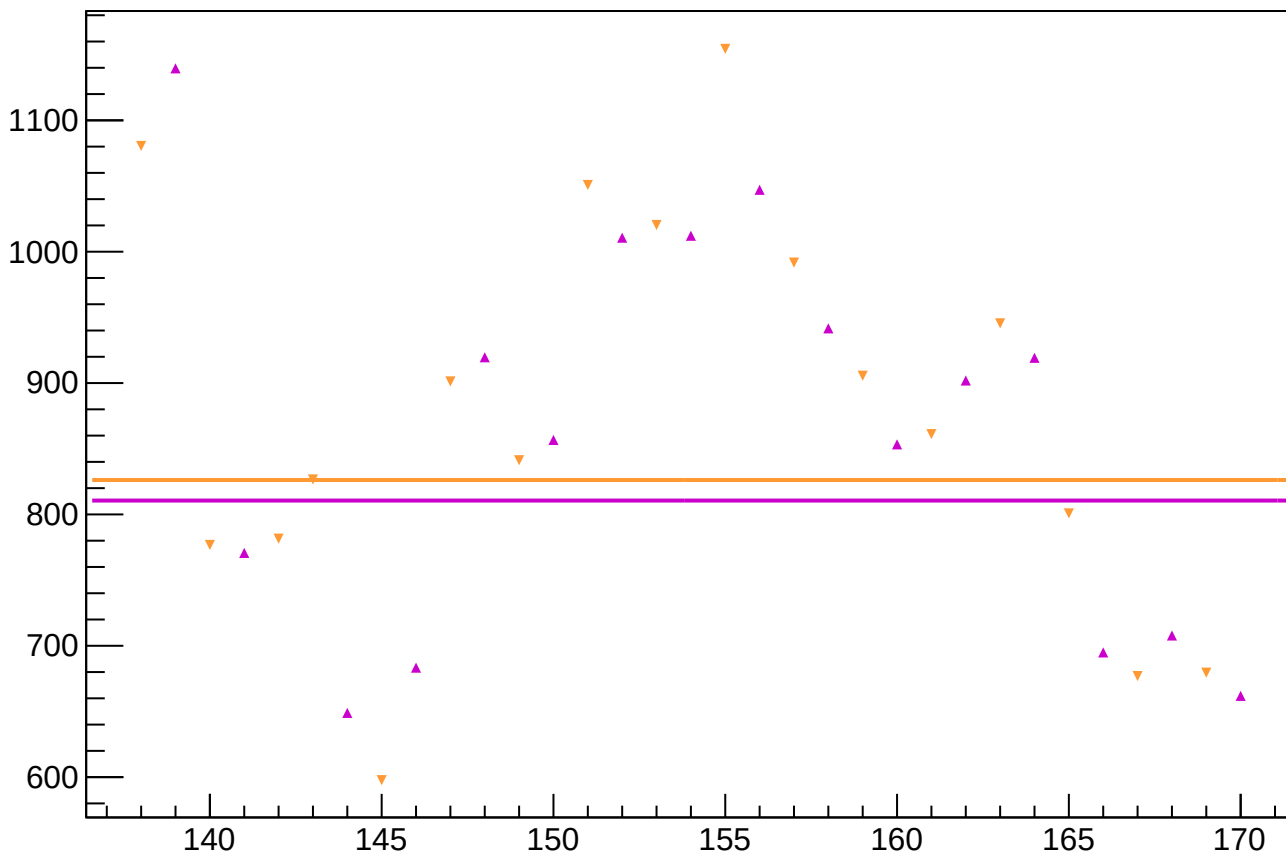
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -69.511+/-233.178 χ^2/NDF :14.3/15

Out: -1464.129+/-236.009 χ^2/NDF :34.2/16

All: -758.407+/-165.874 χ^2/NDF : 66.2/32

asym_sam_3748_avg_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 826.216+/-0.167 χ^2/NDF : 812944.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 810.557+/-0.165 χ^2/NDF : 735249.7/15

Left: 818.292+/-0.117 χ^2/NDF : 1552650.0/32

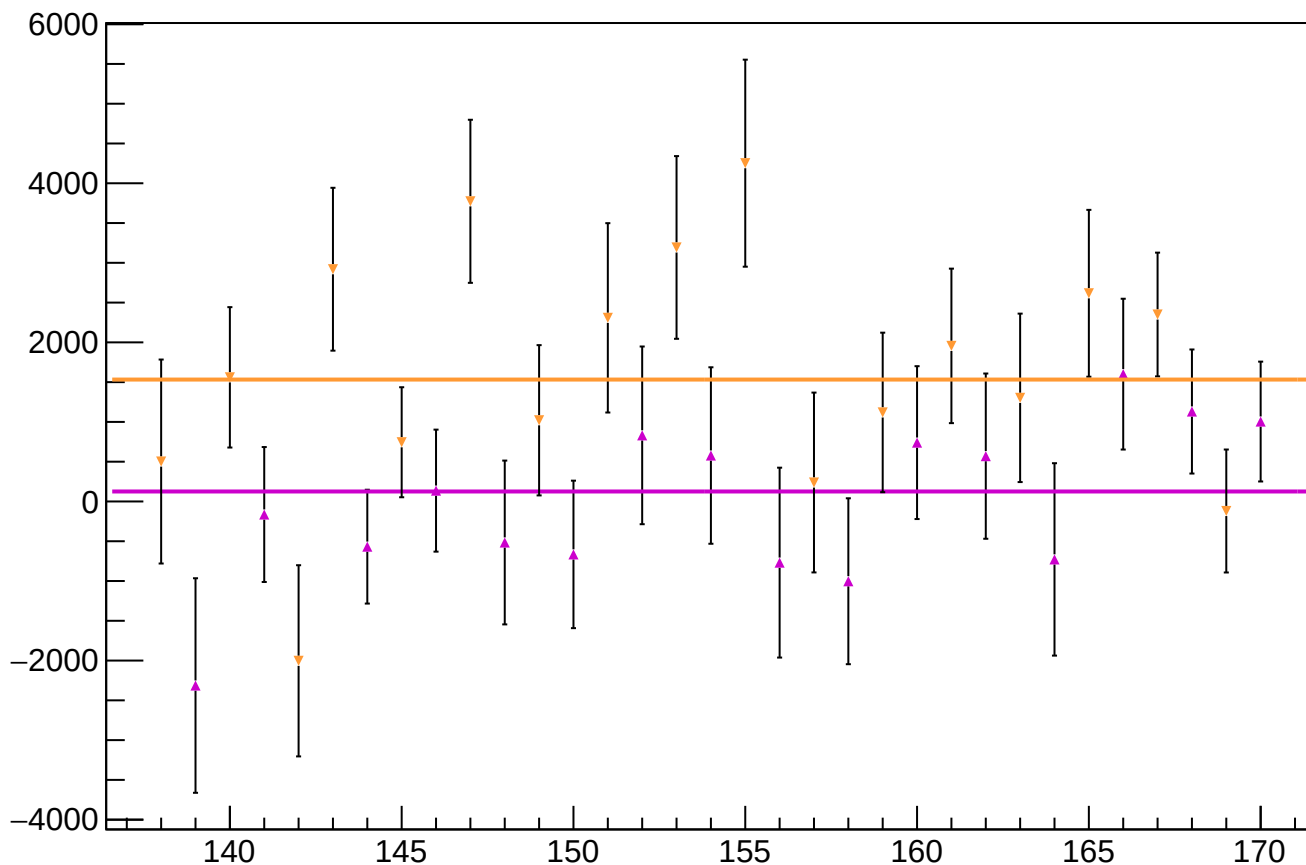
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 810.557+/-0.165 χ^2/NDF : 735249.7/15

Out: 826.216+/-0.167 χ^2/NDF : 812944.7/16

All: 818.292+/-0.117 χ^2/NDF : 1552650.0/32

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 1532.429 $\pm$ 237.524 χ^2 /NDF:32.9/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 125.506 $\pm$ 234.722 χ^2 /NDF:14.3/15

Left: 820.620 $\pm$ 166.955 χ^2 /NDF: 64.9/32

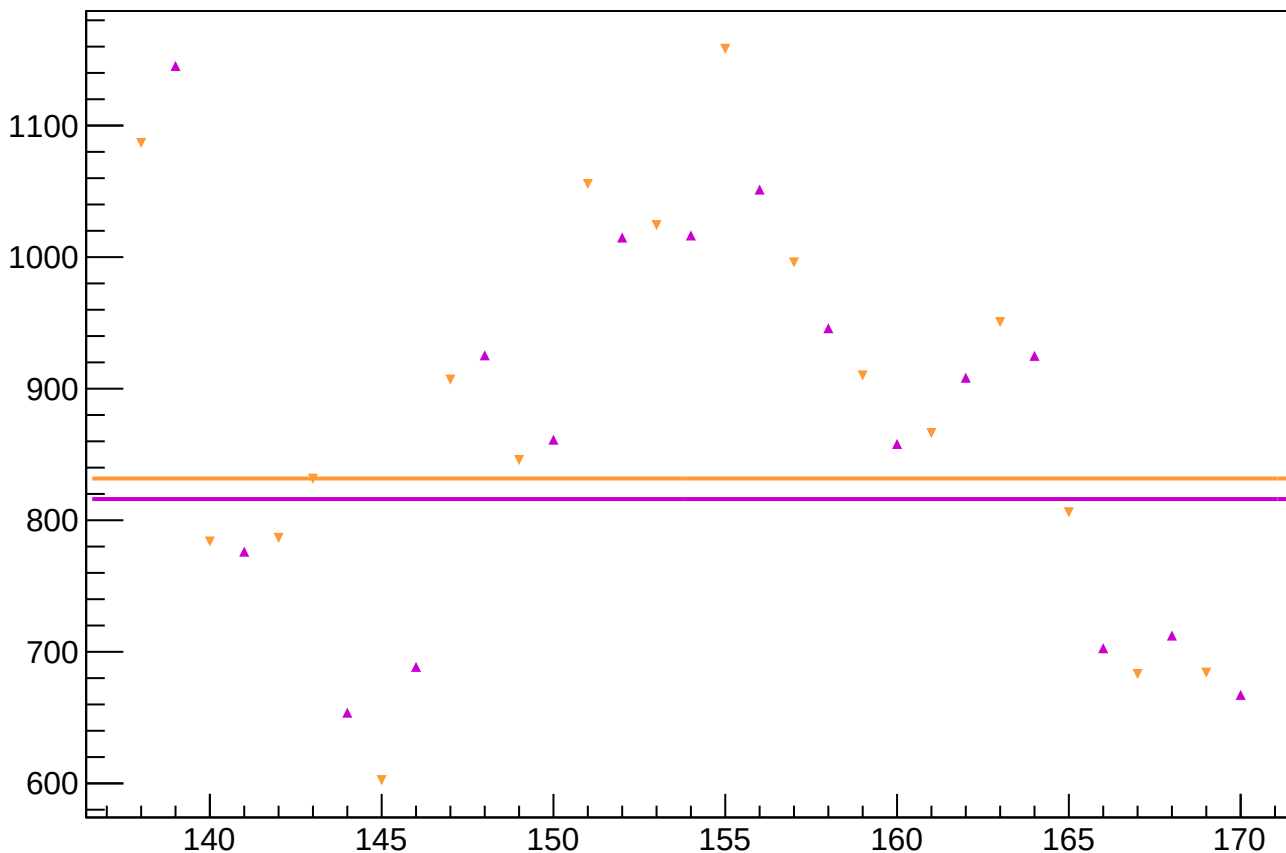
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 125.506 $\pm$ 234.722 χ^2 /NDF:14.3/15

Out: 1532.429 $\pm$ 237.524 χ^2 /NDF:32.9/16

All: 820.620 $\pm$ 166.955 χ^2 /NDF: 64.9/32

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 831.728+/-0.168 χ^2/NDF : 801236.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 816.120+/-0.166 χ^2/NDF : 724338.6/15

Left: 823.832+/-0.118 χ^2/NDF : 1529944.3/32

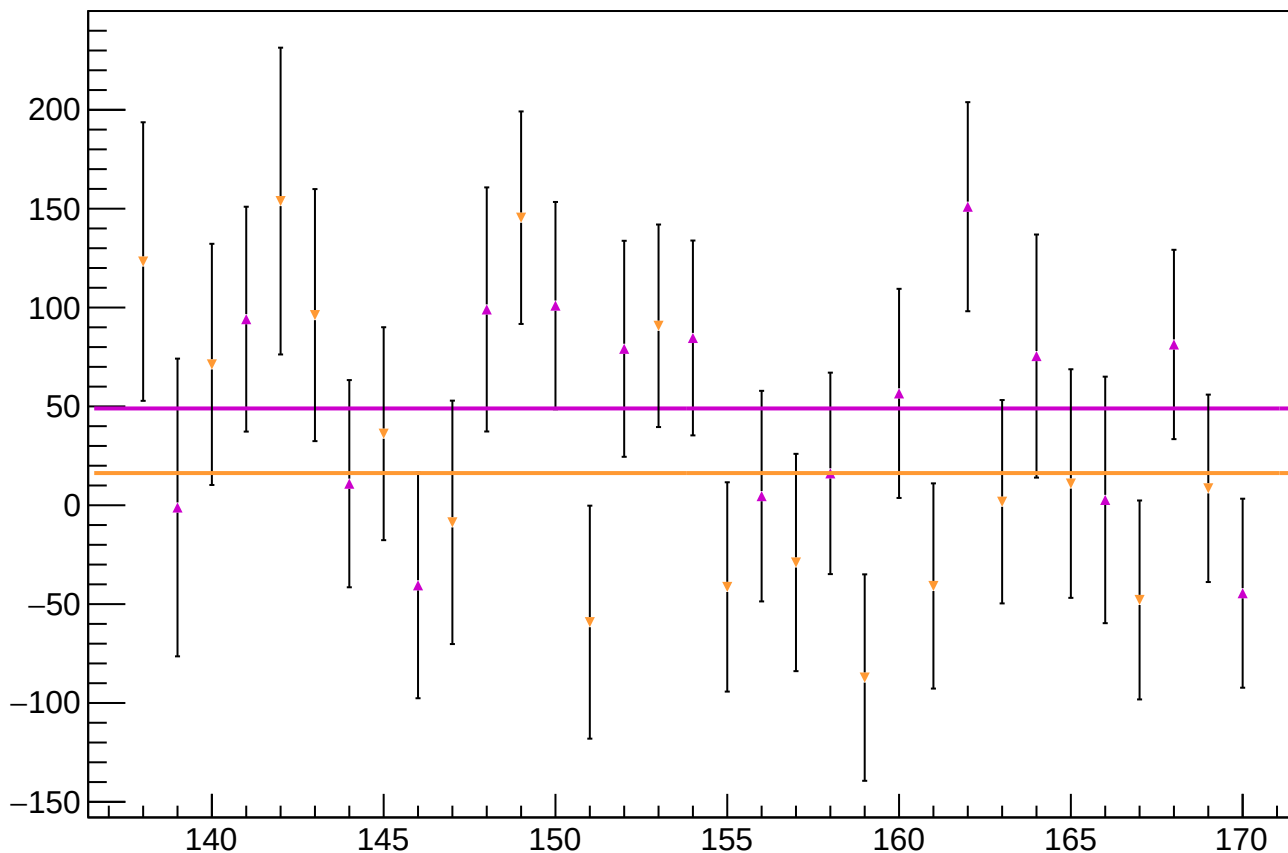
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 816.120+/-0.166 χ^2/NDF : 724338.6/15

Out: 831.728+/-0.168 χ^2/NDF : 801236.3/16

All: 823.832+/-0.118 χ^2/NDF : 1529944.3/32

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 16.282 $\pm$ 13.545 χ^2 /NDF:26.4/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 48.960 $\pm$ 13.635 χ^2 /NDF:16.4/15

Left: 32.512 $\pm$ 9.609 χ^2 /NDF: 45.7/32

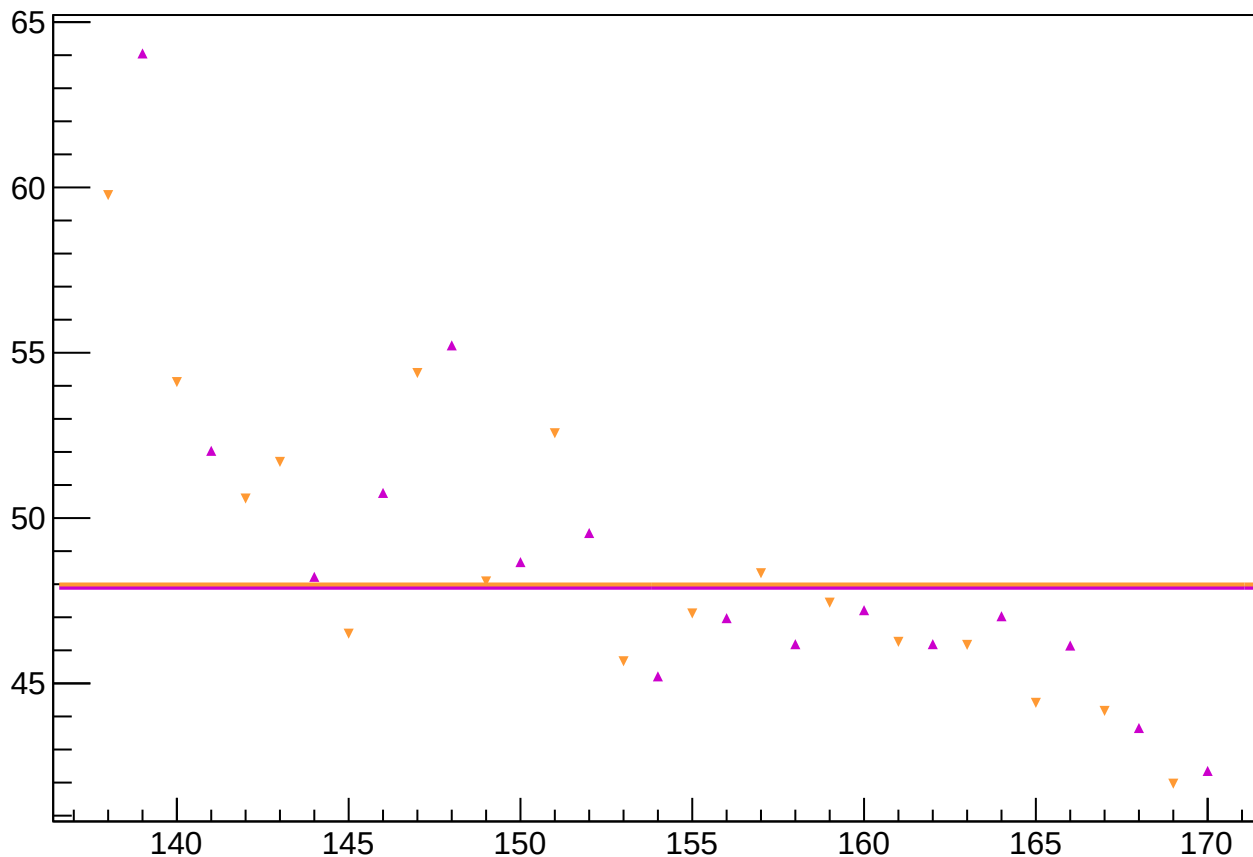
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 48.960 $\pm$ 13.635 χ^2 /NDF:16.4/15

Out: 16.282 $\pm$ 13.545 χ^2 /NDF:26.4/16

All: 32.512 $\pm$ 9.609 χ^2 /NDF: 45.7/32

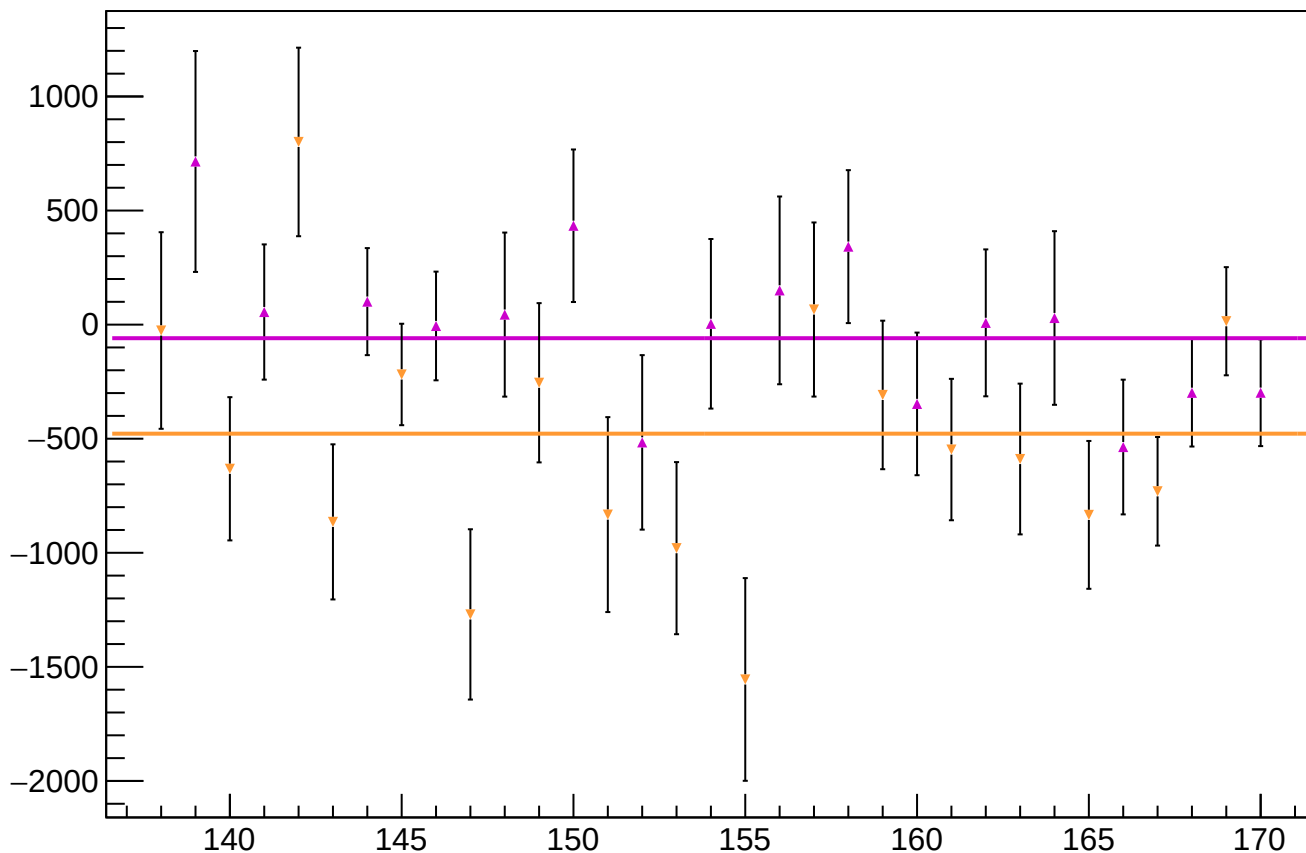
reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 47.991 $\pm$ 0.010 χ^2 /NDF:181486.9/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 47.893 $\pm$ 0.010 χ^2 /NDF:194047.8/15

Left: 47.943 $\pm$ 0.007 χ^2 /NDF: 375587.0/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 47.893 $\pm$ 0.010 χ^2 /NDF:194047.8/15
 Out: 47.991 $\pm$ 0.010 χ^2 /NDF:181486.9/16
 All: 47.943 $\pm$ 0.007 χ^2 /NDF: 375587.0/32

asym_sam_1526_avg_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -477.906+/-78.059 χ^2/NDF :36.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -59.464+/-76.351 χ^2/NDF :14.3/15

Left: -264.056+/-54.582 χ^2/NDF : 64.9/32

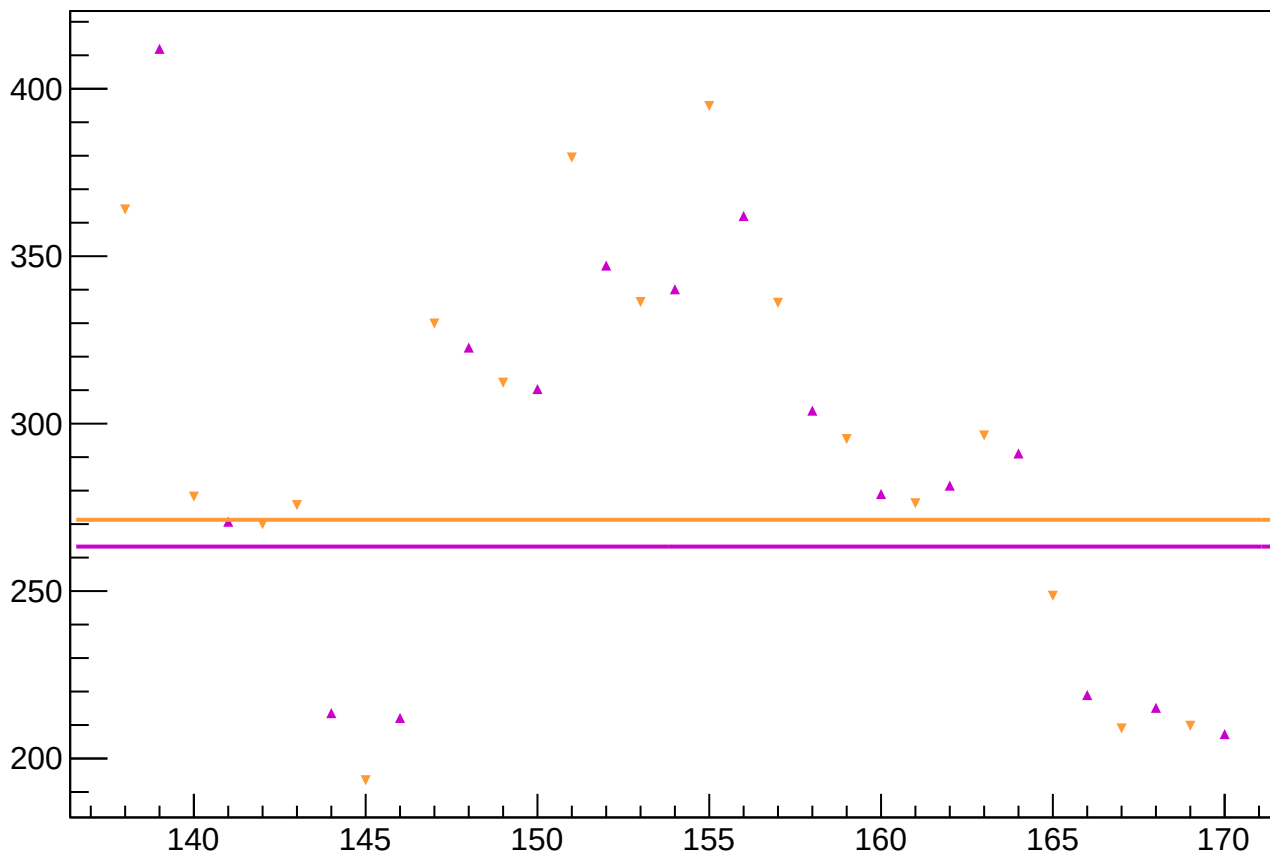
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -59.464+/-76.351 χ^2/NDF :14.3/15

Out: -477.906+/-78.059 χ^2/NDF :36.0/16

All: -264.056+/-54.582 χ^2/NDF : 64.9/32

asym_sam_1526_avg_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 271.295+/-0.055 χ^2/NDF :1120325.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 263.286+/-0.054 χ^2/NDF :1057652.9/15

Left: 267.202+/-0.039 χ^2/NDF : 2188736.3/32

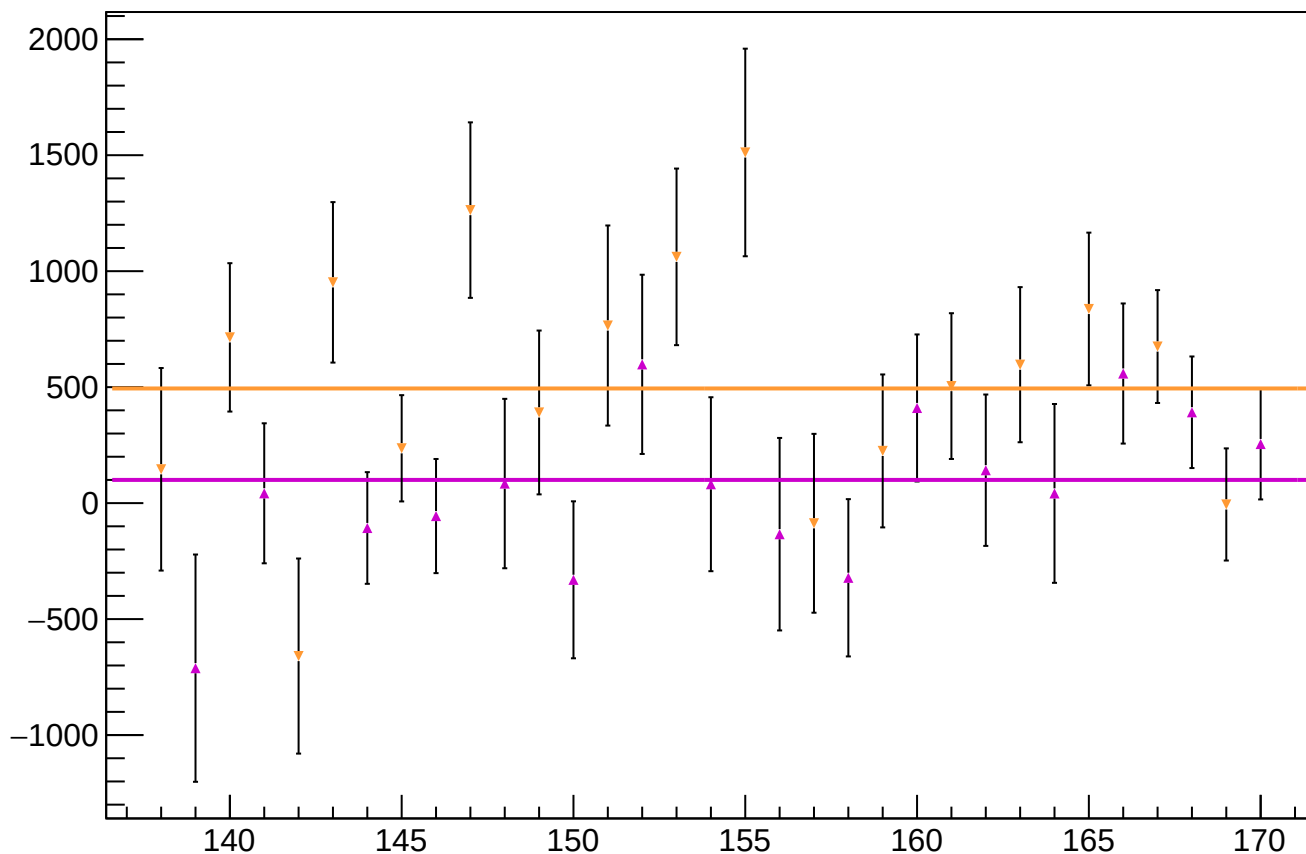
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 263.286+/-0.054 χ^2/NDF :1057652.9/15

Out: 271.295+/-0.055 χ^2/NDF :1120325.0/16

All: 267.202+/-0.039 χ^2/NDF : 2188736.3/32

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 494.295+/-79.409 χ^2/NDF :32.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 100.050+/-77.781 χ^2/NDF :14.3/15

Left: 293.090+/-55.566 χ^2/NDF : 59.5/32

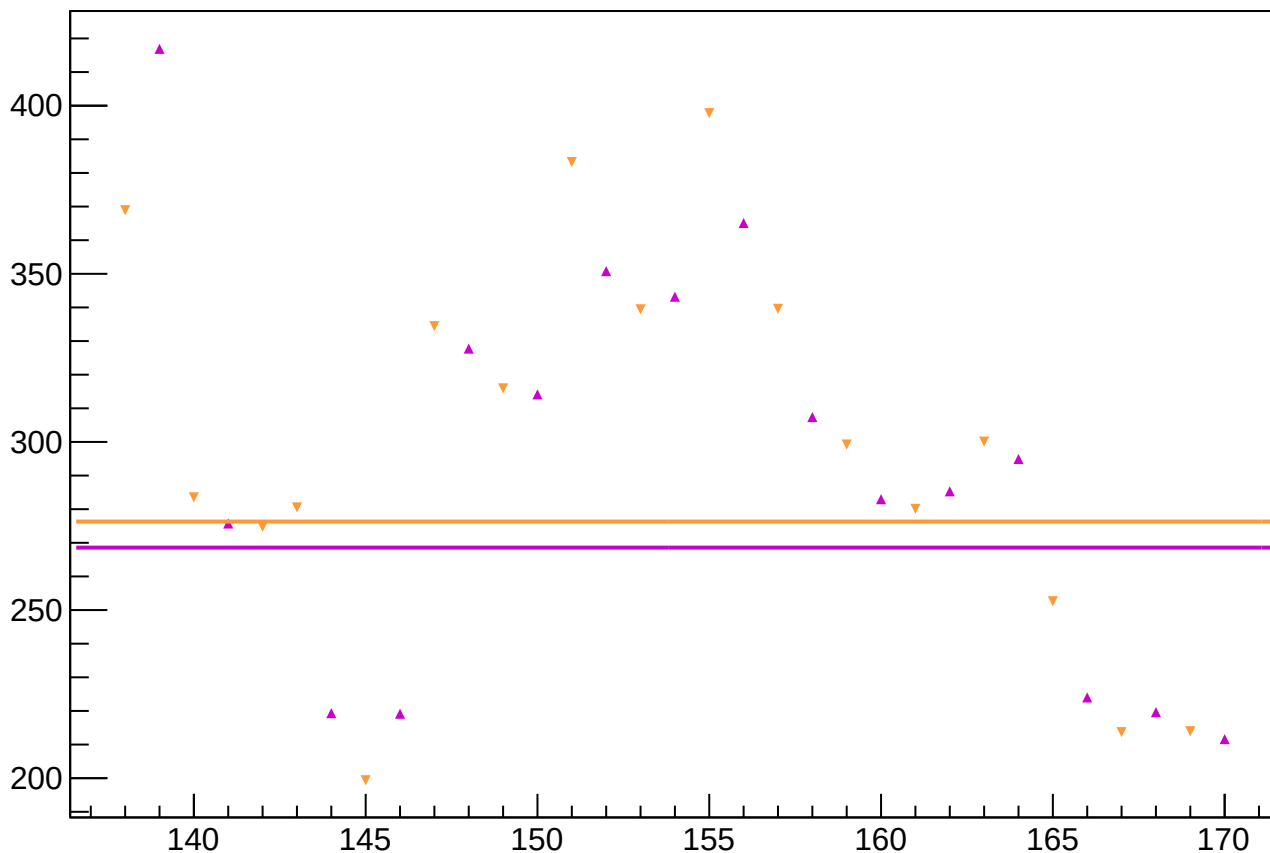
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 100.050+/-77.781 χ^2/NDF :14.3/15

Out: 494.295+/-79.409 χ^2/NDF :32.6/16

All: 293.090+/-55.566 χ^2/NDF : 59.5/32

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 276.318+/-0.056 χ^2/NDF :1064294.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 268.567+/-0.055 χ^2/NDF :1000491.6/15

Left: 272.363+/-0.039 χ^2/NDF : 2074510.3/32

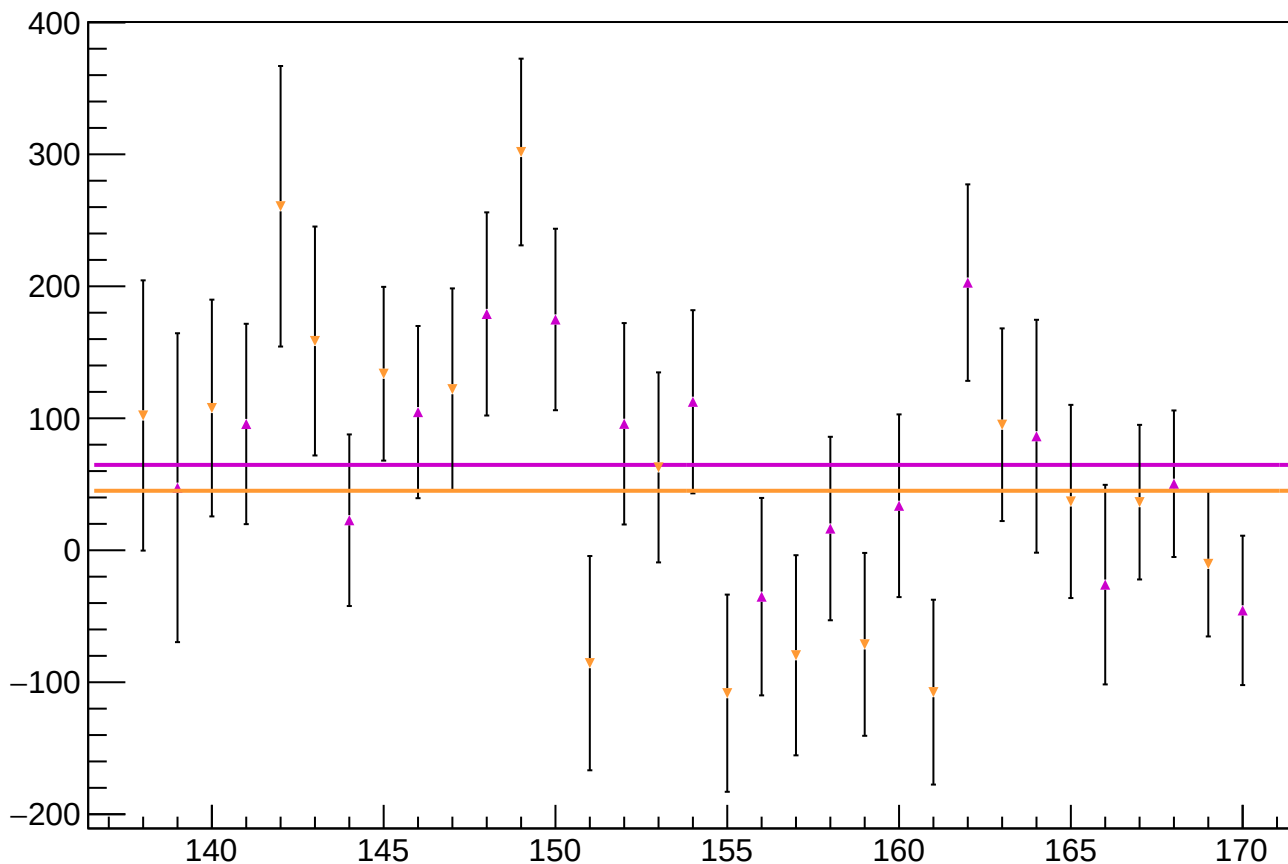
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 268.567+/-0.055 χ^2/NDF :1000491.6/15

Out: 276.318+/-0.056 χ^2/NDF :1064294.5/16

All: 272.363+/-0.039 χ^2/NDF : 2074510.3/32

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 45.079 $\pm$ 17.749 χ^2 /NDF:41.4/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 64.688 $\pm$ 17.697 χ^2 /NDF:17.7/15

Left: 54.912 $\pm$ 12.532 χ^2 /NDF: 59.7/32

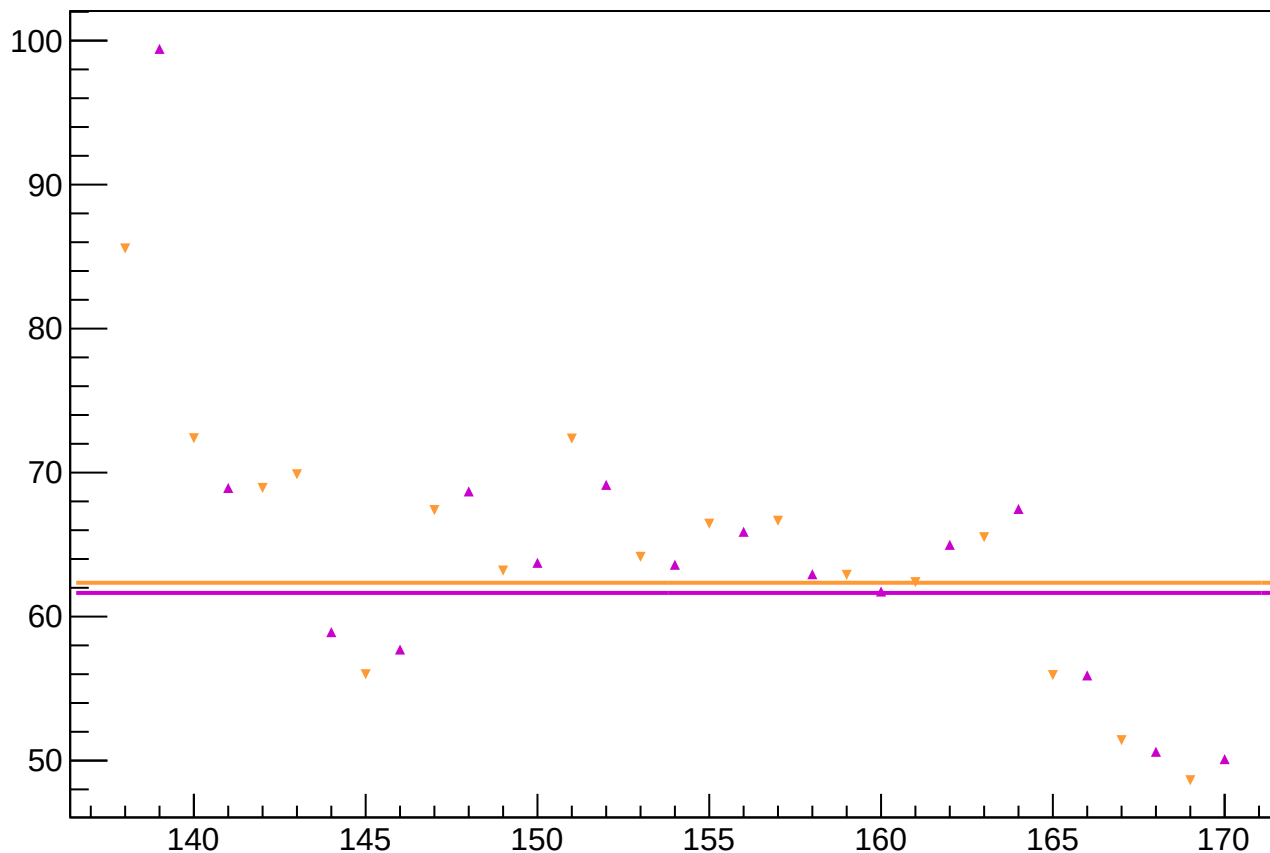
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 64.688 $\pm$ 17.697 χ^2 /NDF:17.7/15

Out: 45.079 $\pm$ 17.749 χ^2 /NDF:41.4/16

All: 54.912 $\pm$ 12.532 χ^2 /NDF: 59.7/32

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 62.350+/-0.013 χ^2/NDF :440658.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 61.645+/-0.013 χ^2/NDF :470822.4/15

Left: 61.996+/-0.009 χ^2/NDF : 913067.0/32

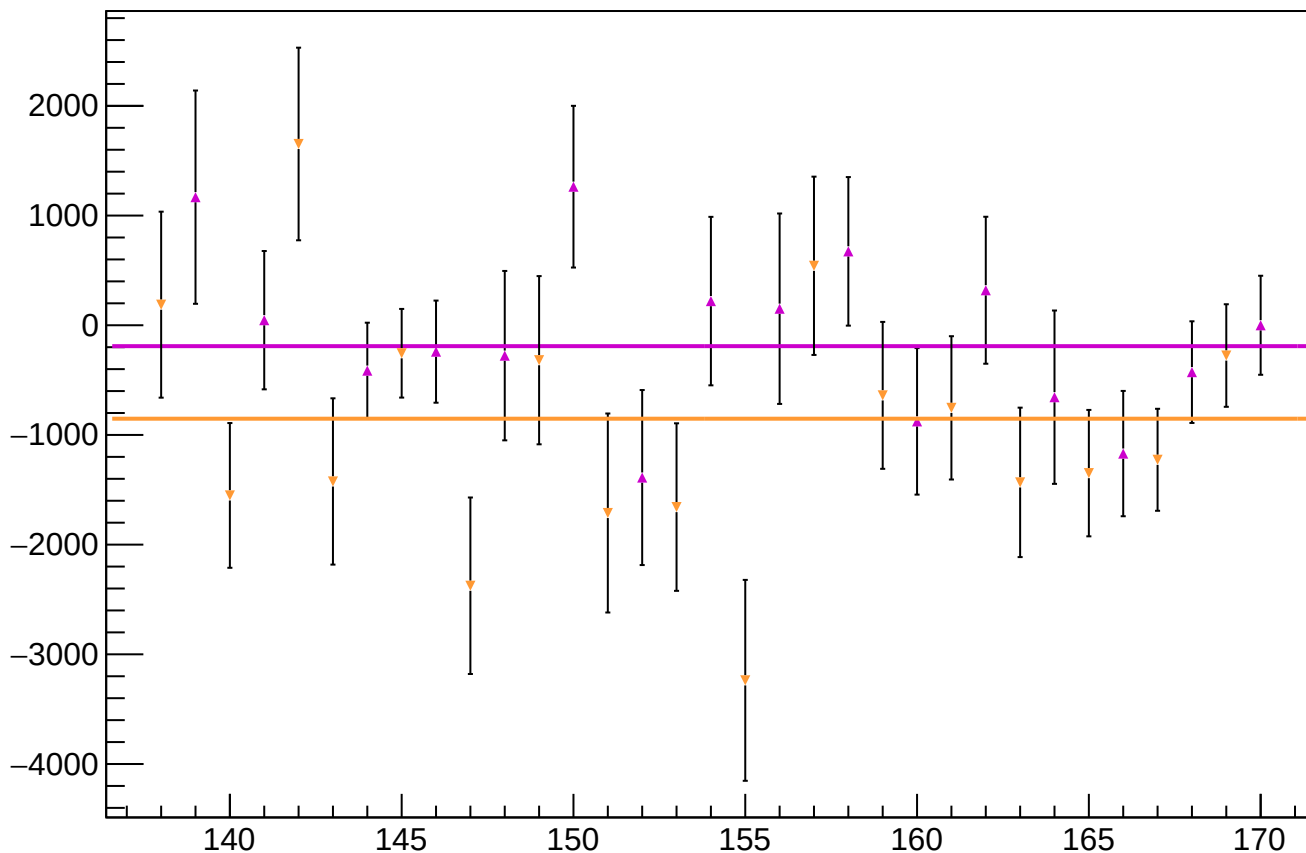
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 61.645+/-0.013 χ^2/NDF :470822.4/15

Out: 62.350+/-0.013 χ^2/NDF :440658.9/16

All: 61.996+/-0.009 χ^2/NDF : 913067.0/32

asym_sam_3726_avg_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -851.919+/-156.807 χ^2/NDF :33.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -190.576+/-153.546 χ^2/NDF :15.9/15

Left: -514.300+/-109.708 χ^2/NDF : 58.1/32

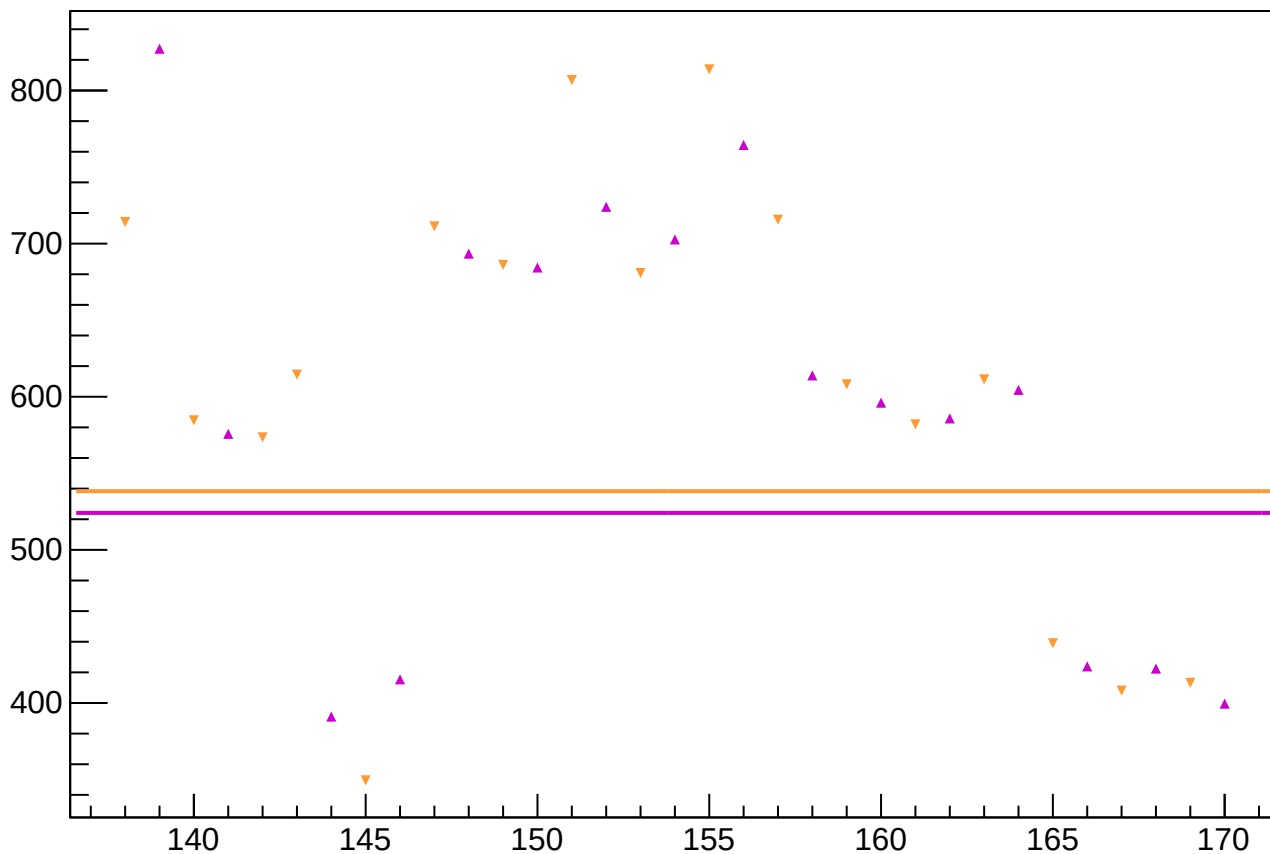
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -190.576+/-153.546 χ^2/NDF :15.9/15

Out: -851.919+/-156.807 χ^2/NDF :33.1/16

All: -514.300+/-109.708 χ^2/NDF : 58.1/32

asym_sam_3726_avg_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 538.319+/-0.111 χ^2/NDF :1656896.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 524.121+/-0.109 χ^2/NDF :1486070.5/15

Left: 531.071+/-0.078 χ^2/NDF : 3151337.6/32

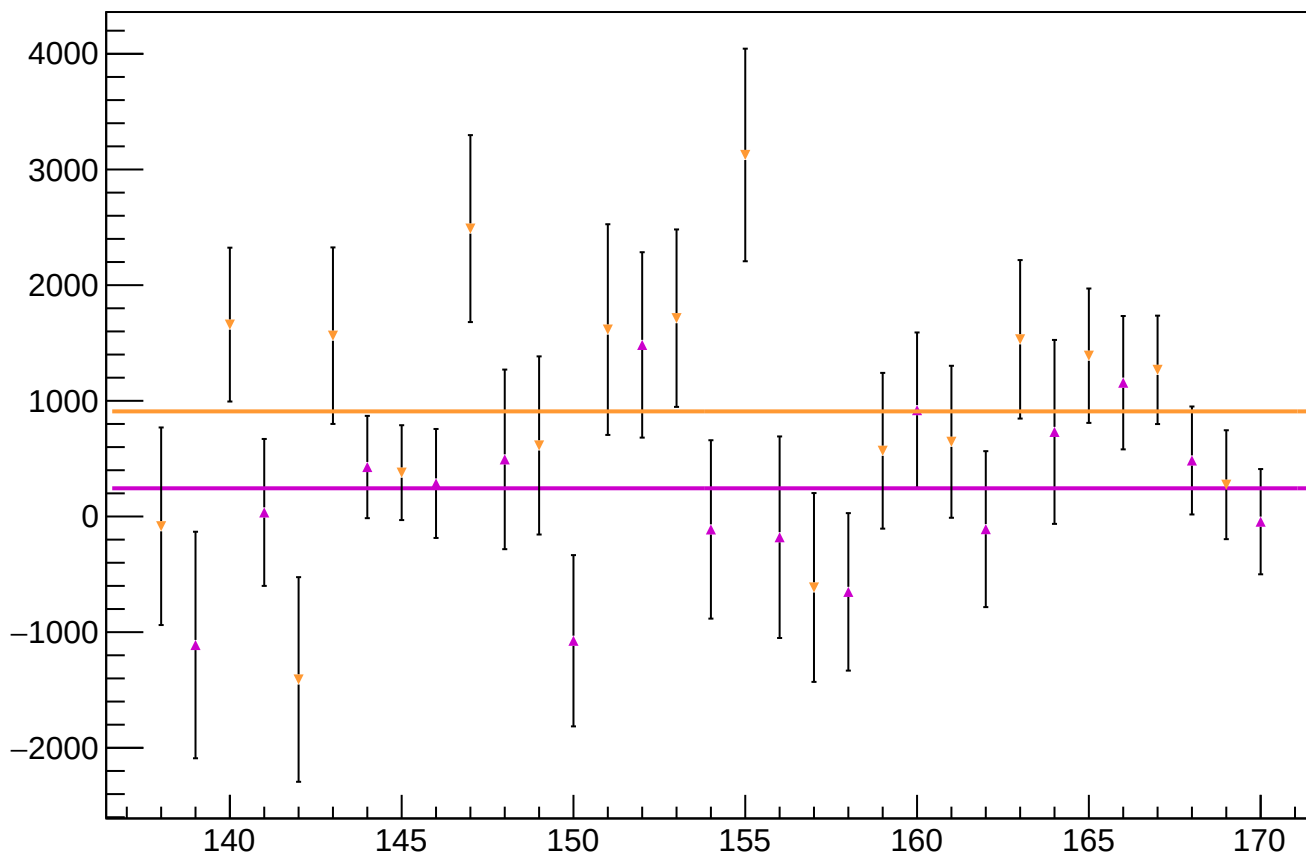
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 524.121+/-0.109 χ^2/NDF :1486070.5/15

Out: 538.319+/-0.111 χ^2/NDF :1656896.5/16

All: 531.071+/-0.078 χ^2/NDF : 3151337.6/32

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 908.743+/-157.988 χ^2/NDF :31.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 243.801+/-154.736 χ^2/NDF :14.9/15

Left: 569.357+/-110.547 χ^2/NDF : 55.1/32

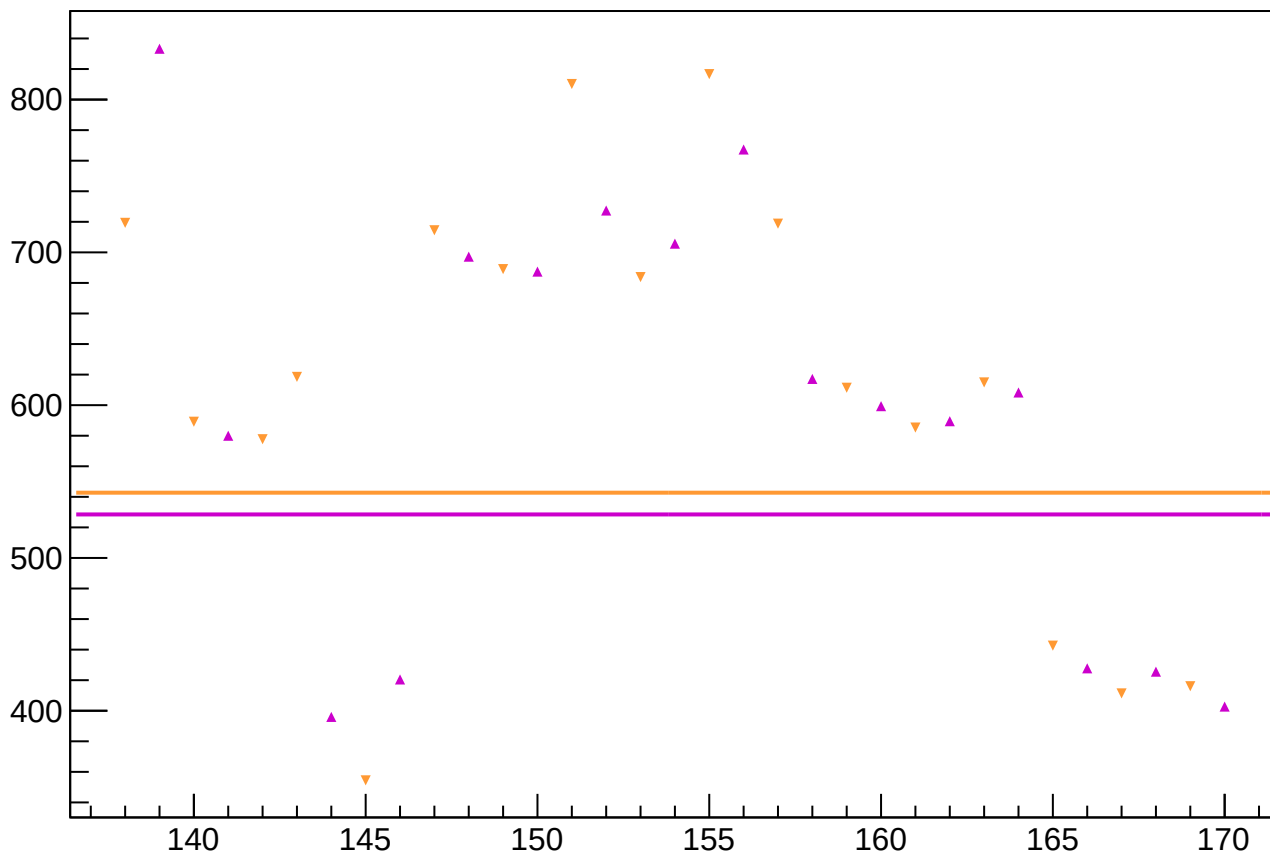
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 243.801+/-154.736 χ^2/NDF :14.9/15

Out: 908.743+/-157.988 χ^2/NDF :31.2/16

All: 569.357+/-110.547 χ^2/NDF : 55.1/32

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 542.721+/-0.112 χ^2/NDF :1626068.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 528.482+/-0.109 χ^2/NDF :1461006.2/15

Left: 535.453+/-0.078 χ^2/NDF : 3095366.2/32

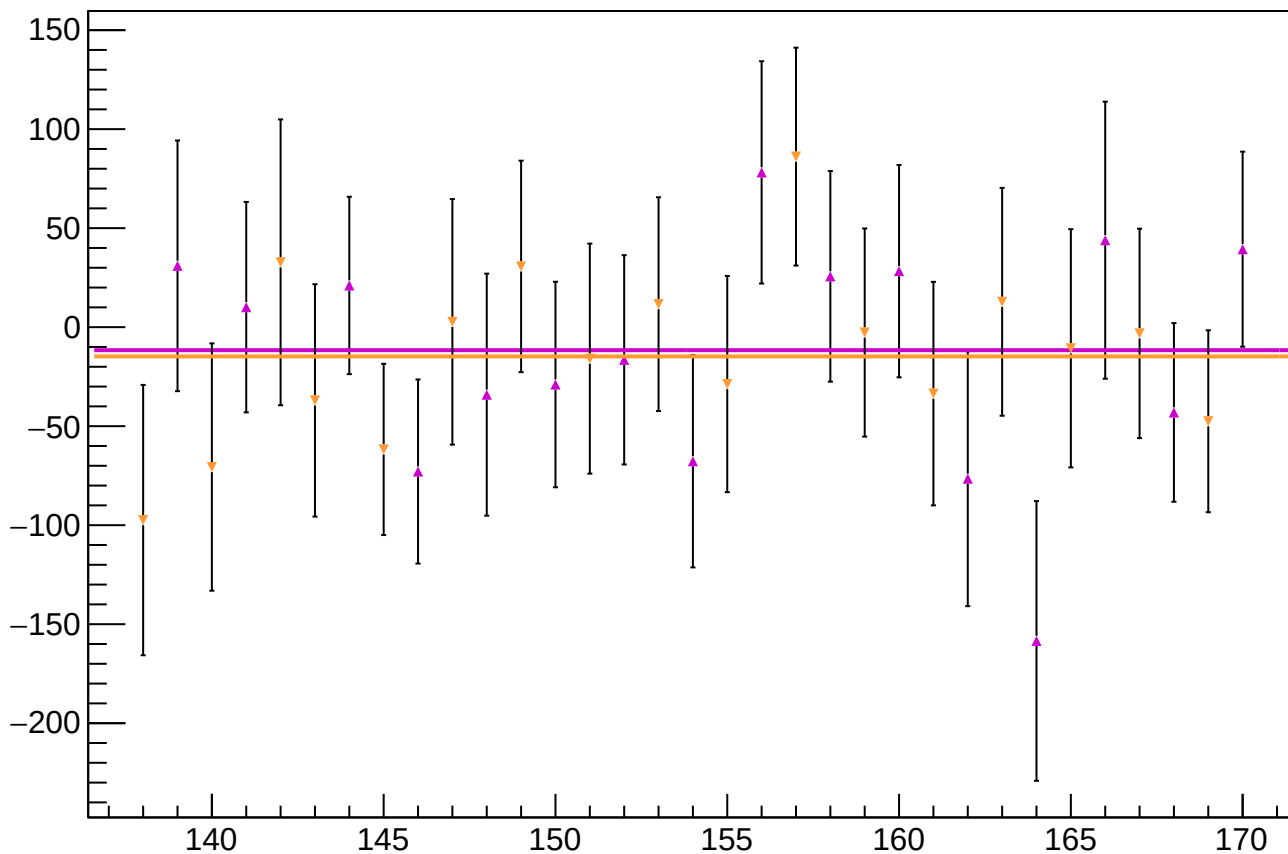
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 528.482+/-0.109 χ^2/NDF :1461006.2/15

Out: 542.721+/-0.112 χ^2/NDF :1626068.1/16

All: 535.453+/-0.078 χ^2/NDF : 3095366.2/32

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -14.783+/-13.496 χ^2/NDF : 9.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -11.634+/-13.511 χ^2/NDF : 15.4/15

Left: -13.210+/-9.548 χ^2/NDF : 24.8/32

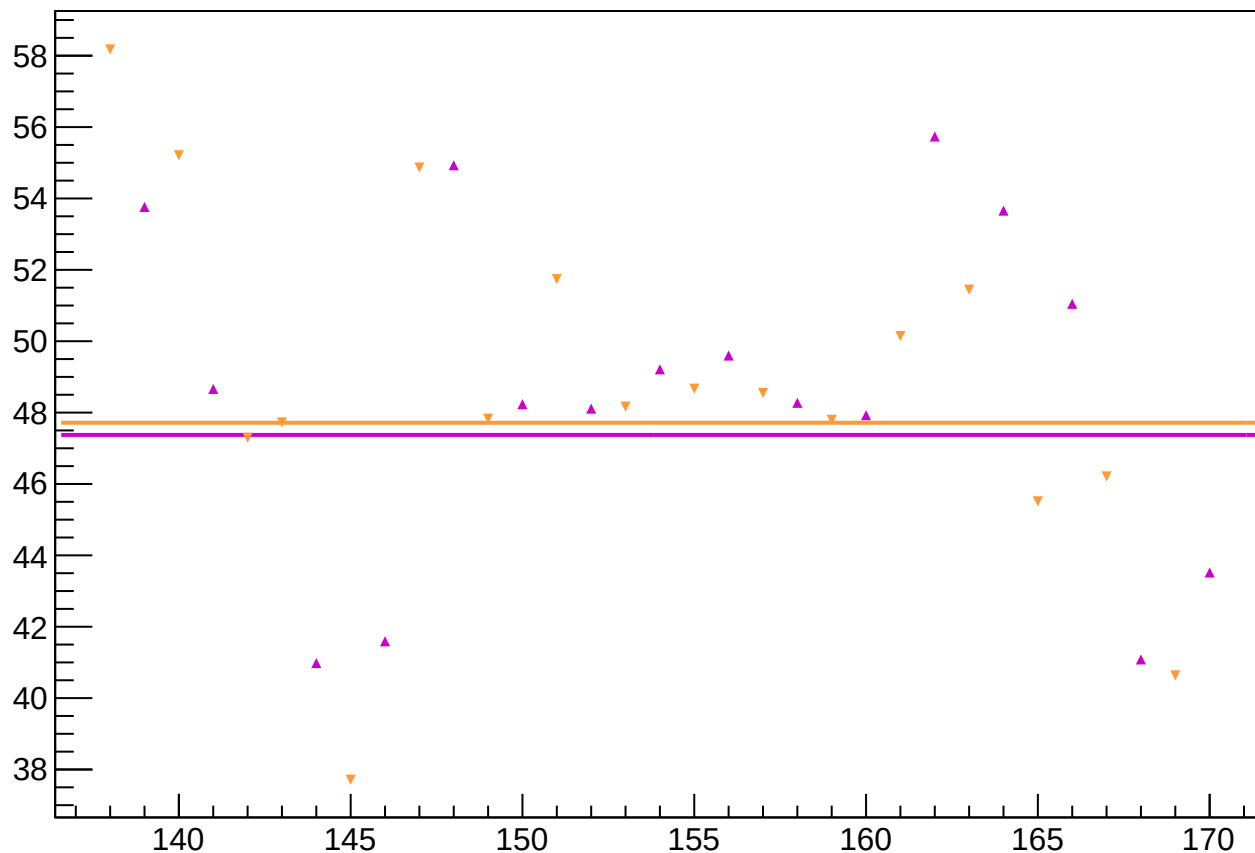
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -11.634+/-13.511 χ^2/NDF : 15.4/15

Out: -14.783+/-13.496 χ^2/NDF : 9.4/16

All: -13.210+/-9.548 χ^2/NDF : 24.8/32

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 47.716+/-0.010 χ^2/NDF :284170.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 47.375+/-0.010 χ^2/NDF :237228.4/15

Left: 47.546+/-0.007 χ^2/NDF : 522039.4/32

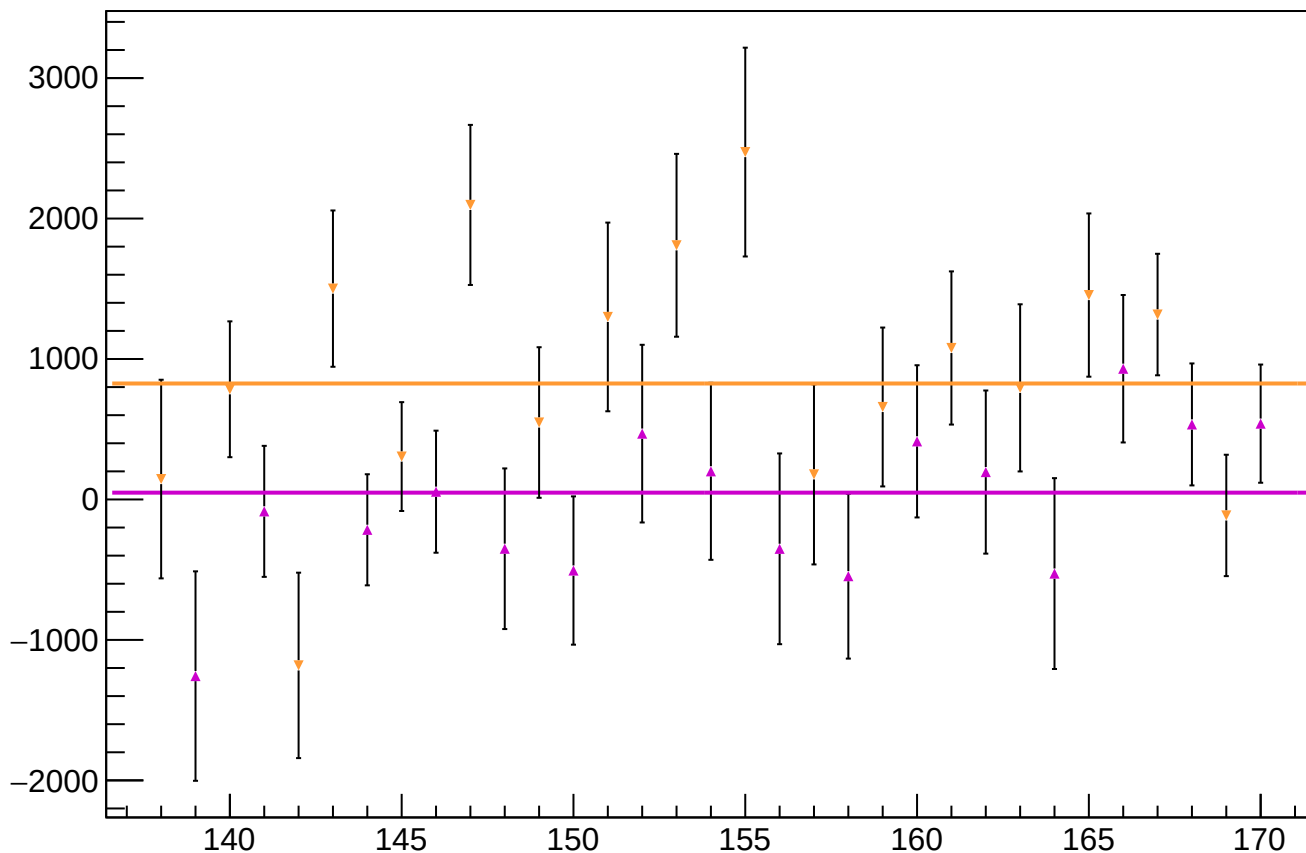
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 47.375+/-0.010 χ^2/NDF :237228.4/15

Out: 47.716+/-0.010 χ^2/NDF :284170.6/16

All: 47.546+/-0.007 χ^2/NDF : 522039.4/32

asym_sam_15_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 825.566+/-132.667 χ^2/NDF :34.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 48.396+/-131.373 χ^2/NDF :13.7/15

Left: 433.173+/-93.349 χ^2/NDF : 66.0/32

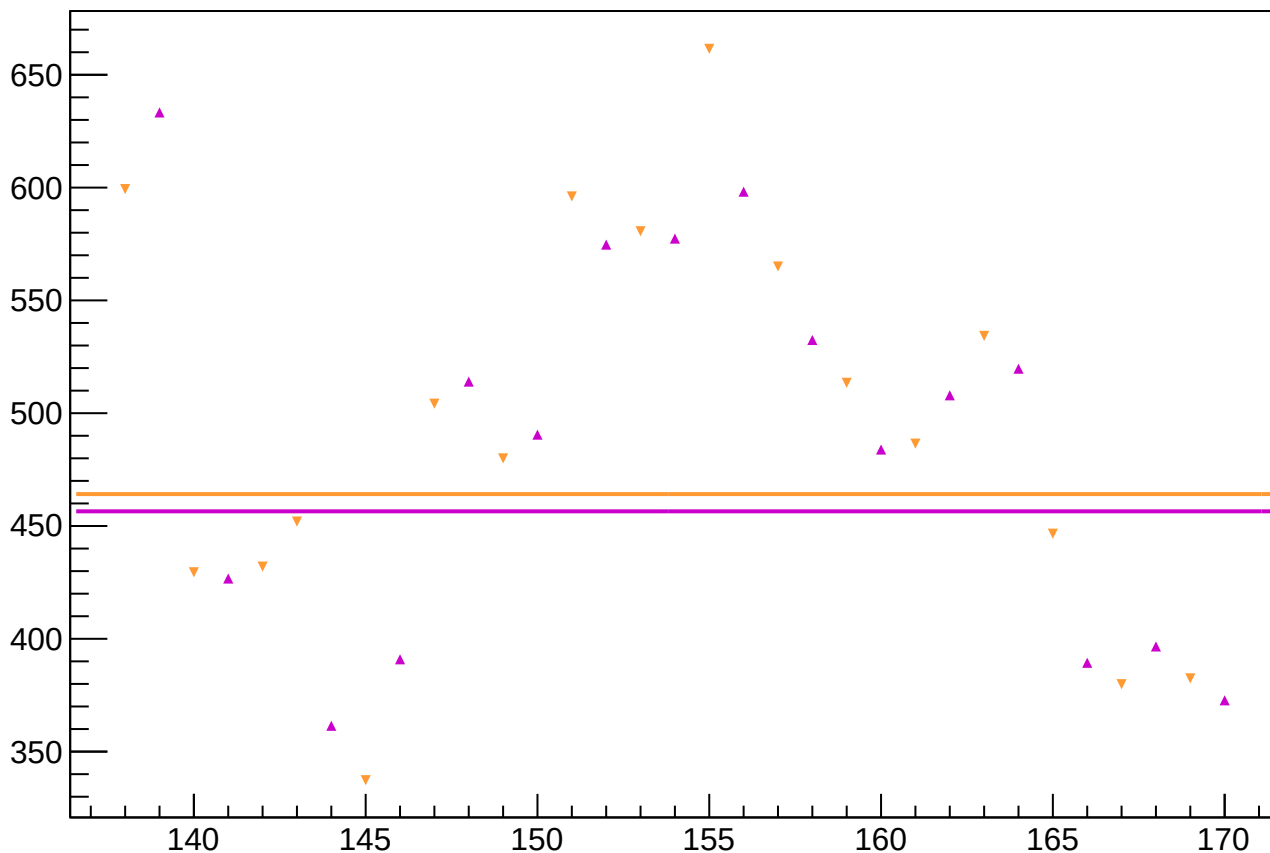
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 48.396+/-131.373 χ^2/NDF :13.7/15

Out: 825.566+/-132.667 χ^2/NDF :34.9/16

All: 433.173+/-93.349 χ^2/NDF : 66.0/32

asym_sam_15_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 464.153+/-0.094 χ^2/NDF : 842212.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 456.503+/-0.093 χ^2/NDF : 762420.4/15

Left: 460.291+/-0.066 χ^2/NDF : 1607990.2/32

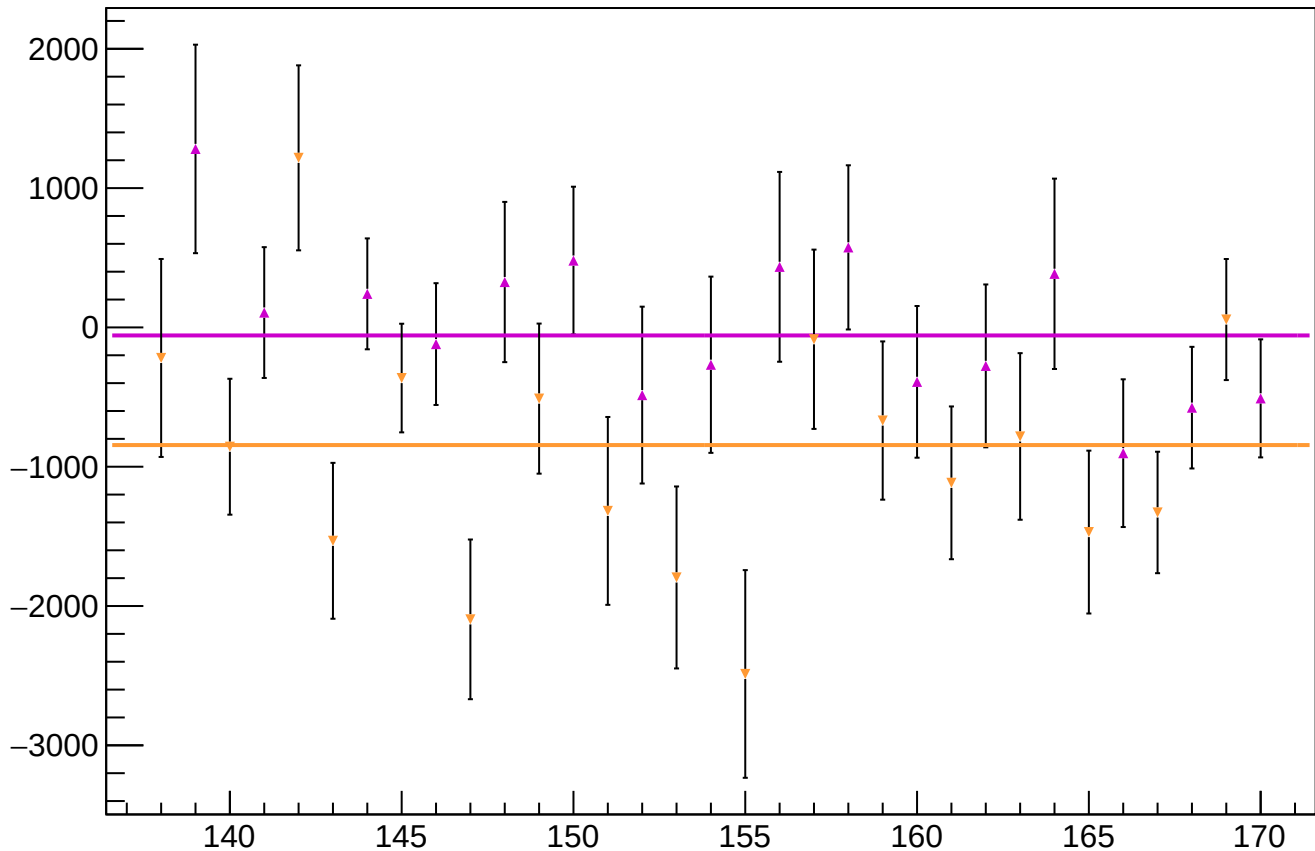
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 456.503+/-0.093 χ^2/NDF : 762420.4/15

Out: 464.153+/-0.094 χ^2/NDF : 842212.0/16

All: 460.291+/-0.066 χ^2/NDF : 1607990.2/32

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -844.595+/-133.424 χ^2/NDF :34.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -57.650+/-132.139 χ^2/NDF :13.6/15

Left: -447.317+/-93.888 χ^2/NDF : 65.7/32

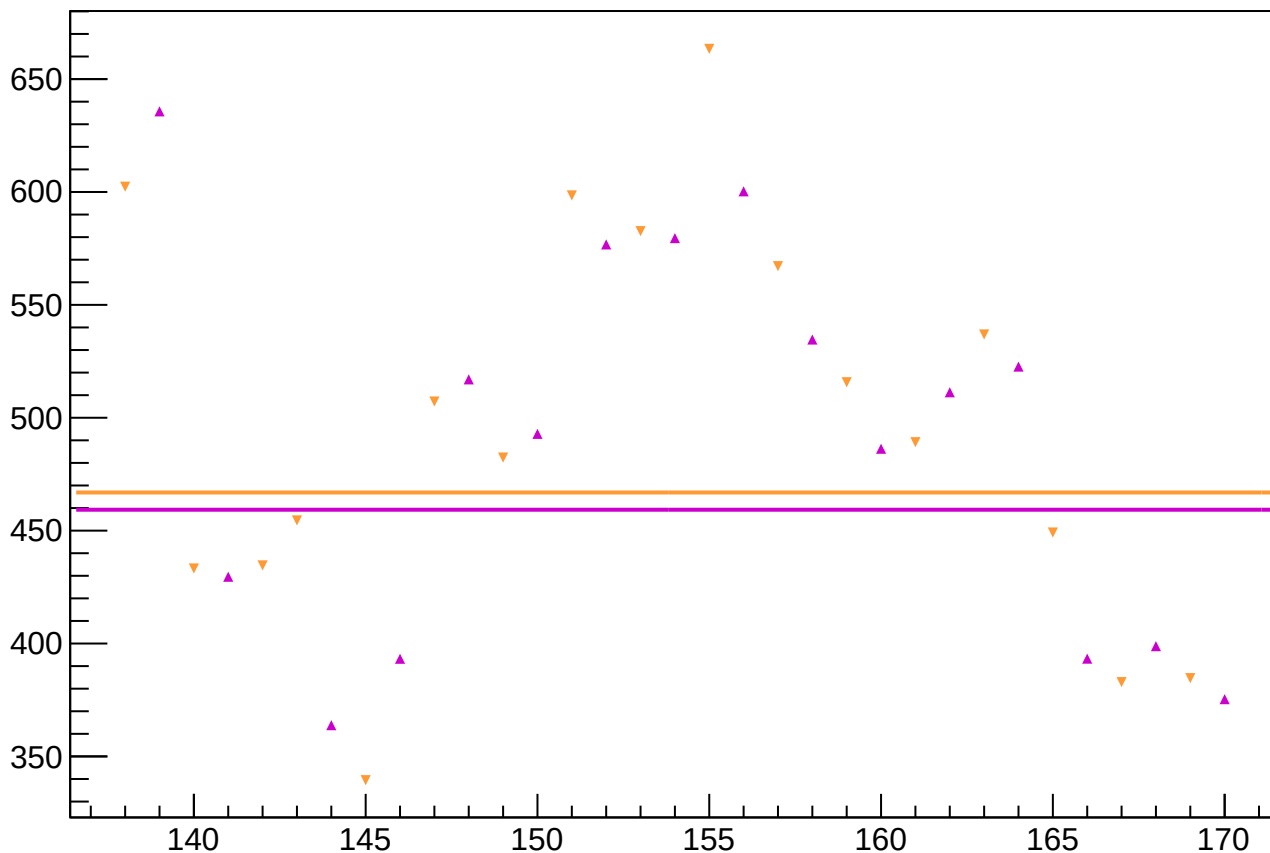
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -57.650+/-132.139 χ^2/NDF :13.6/15

Out: -844.595+/-133.424 χ^2/NDF :34.5/16

All: -447.317+/-93.888 χ^2/NDF : 65.7/32

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 466.904+/-0.094 χ^2/NDF : 832651.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 459.265+/-0.093 χ^2/NDF : 752875.3/15

Left: 463.047+/-0.066 χ^2/NDF : 1588837.2/32

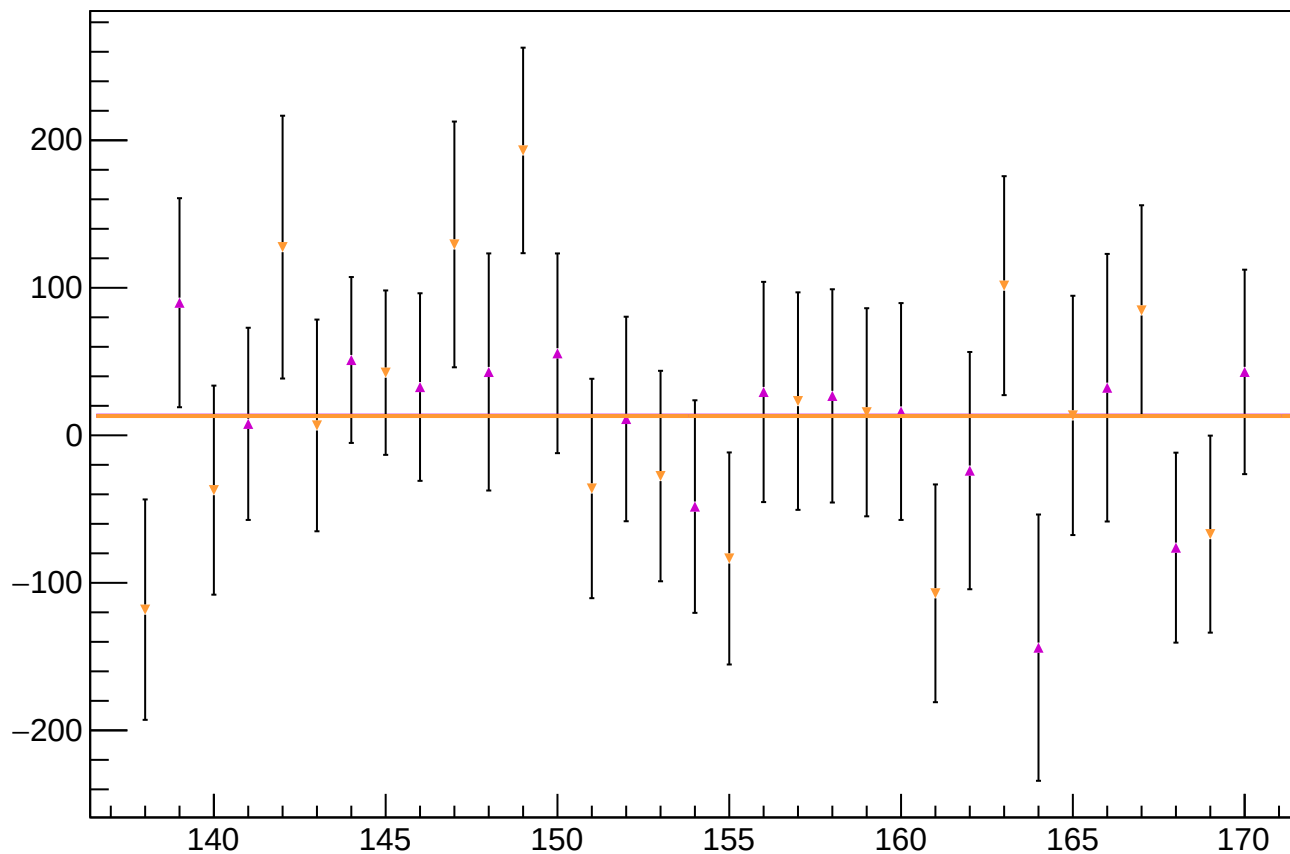
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 459.265+/-0.093 χ^2/NDF : 752875.3/15

Out: 466.904+/-0.094 χ^2/NDF : 832651.6/16

All: 463.047+/-0.066 χ^2/NDF : 1588837.2/32

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 13.079 $\pm$ 17.501 χ^2 /NDF:23.3/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 13.314 $\pm$ 17.743 χ^2 /NDF:8.5/15

Left: 13.195 $\pm$ 12.460 χ^2 /NDF: 31.7/32

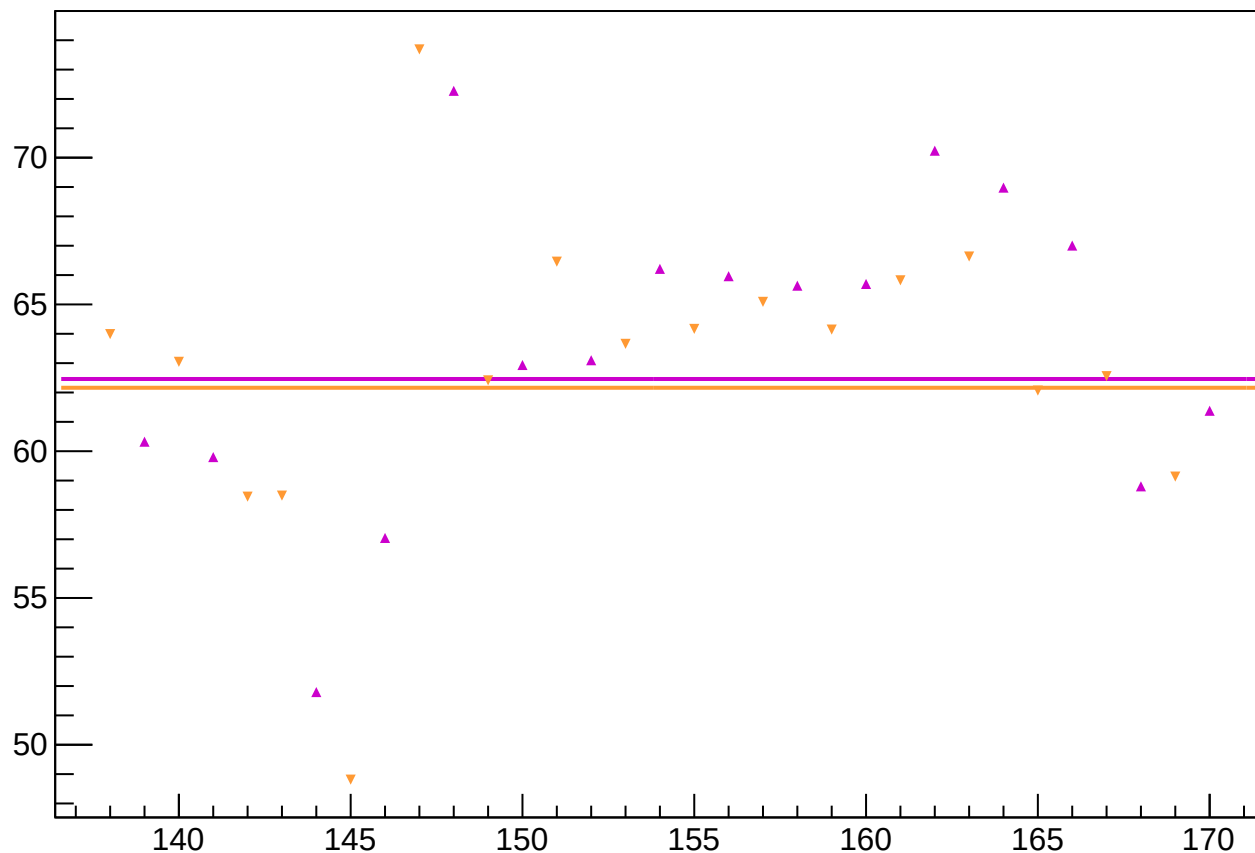
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 13.314 $\pm$ 17.743 χ^2 /NDF:8.5/15

Out: 13.079 $\pm$ 17.501 χ^2 /NDF:23.3/16

All: 13.195 $\pm$ 12.460 χ^2 /NDF: 31.7/32

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 62.162+/-0.012 χ^2/NDF :193513.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 62.460+/-0.013 χ^2/NDF :180395.8/15

Left: 62.309+/-0.009 χ^2/NDF : 374196.2/32

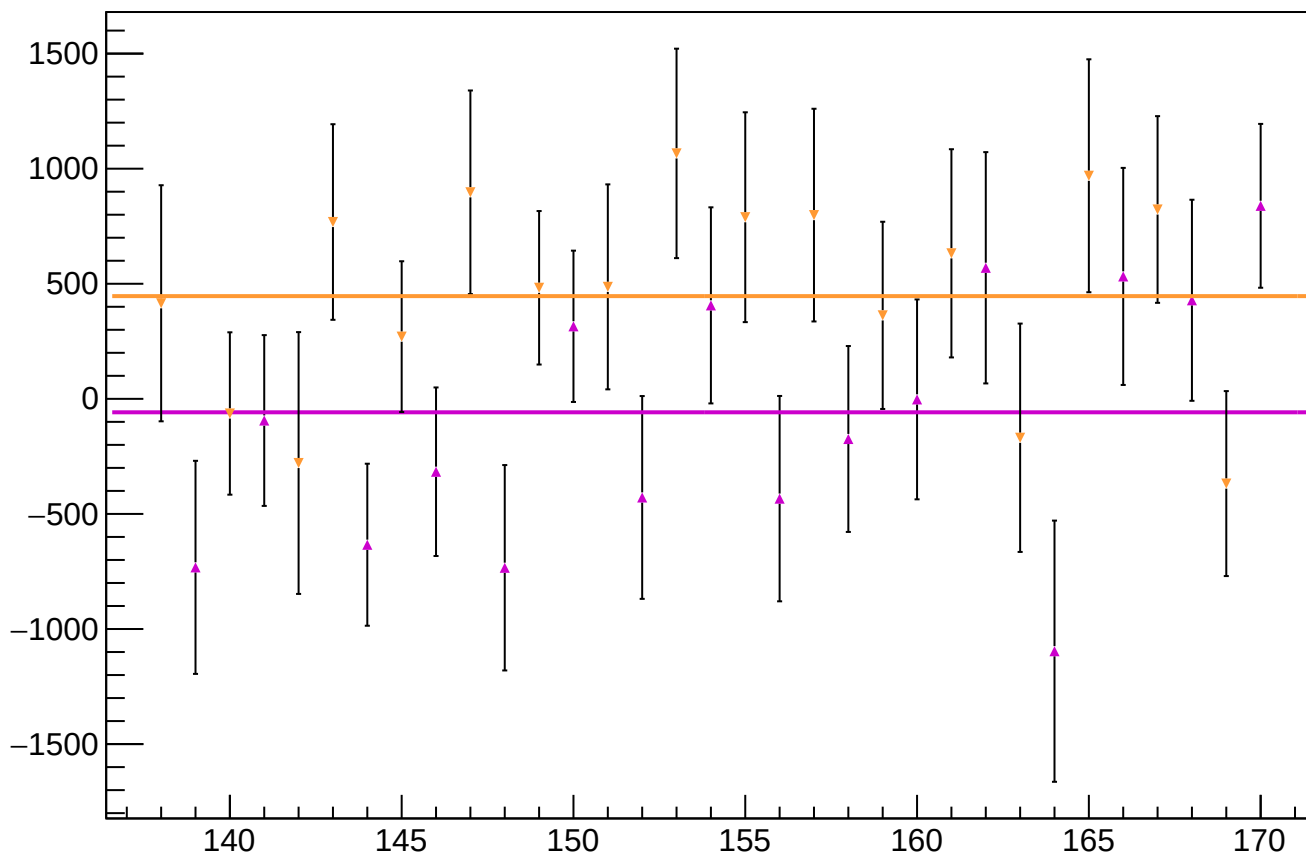
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 62.460+/-0.013 χ^2/NDF :180395.8/15

Out: 62.162+/-0.012 χ^2/NDF :193513.4/16

All: 62.309+/-0.009 χ^2/NDF : 374196.2/32

asym_sam_37_48_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 446.322+/-102.903 χ^2/NDF :16.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -58.471+/-103.386 χ^2/NDF :25.6/15

Left: 195.109+/-72.933 χ^2/NDF : 54.1/32

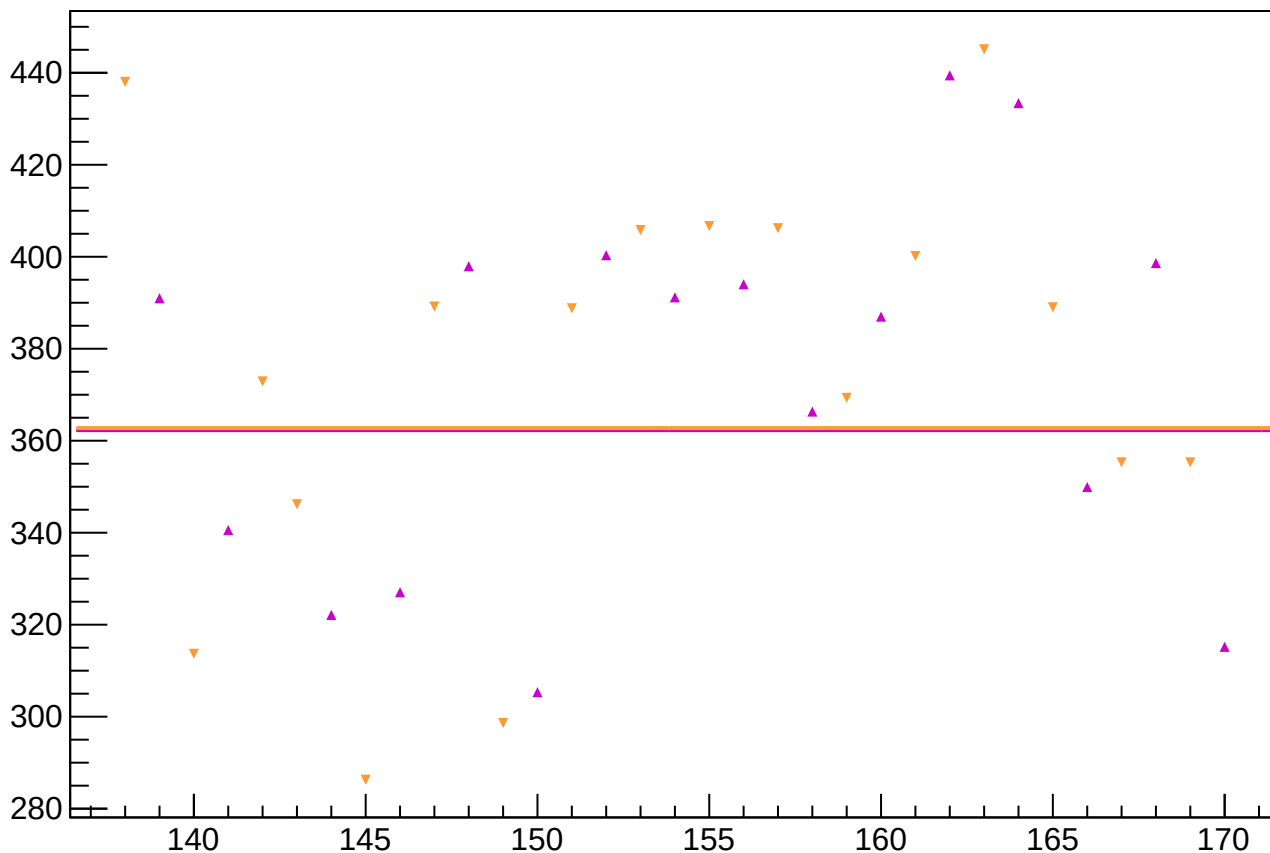
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -58.471+/-103.386 χ^2/NDF :25.6/15

Out: 446.322+/-102.903 χ^2/NDF :16.4/16

All: 195.109+/-72.933 χ^2/NDF : 54.1/32

asym_sam_37_48_dd_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 362.749+/-0.073 χ^2/NDF :412624.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 362.305+/-0.073 χ^2/NDF :301607.8/15

Left: 362.528+/-0.052 χ^2/NDF : 714250.6/32

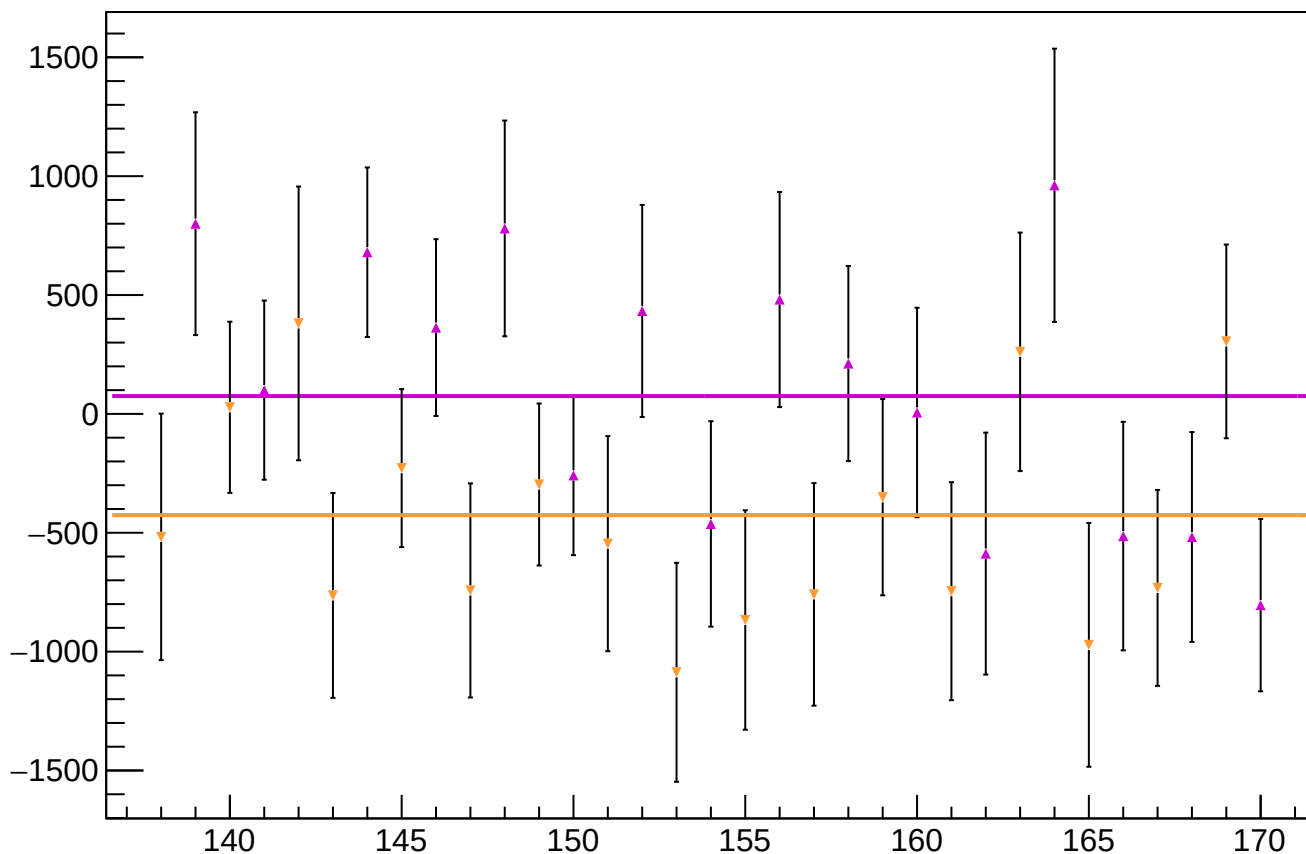
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 362.305+/-0.073 χ^2/NDF :301607.8/15

Out: 362.749+/-0.073 χ^2/NDF :412624.3/16

All: 362.528+/-0.052 χ^2/NDF : 714250.6/32

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: -425.899 $\pm$ 104.483 χ^2 /NDF:16.0/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 74.919 $\pm$ 104.985 χ^2 /NDF:25.7/15

Left: -176.692 $\pm$ 74.058 χ^2 /NDF: 53.1/32

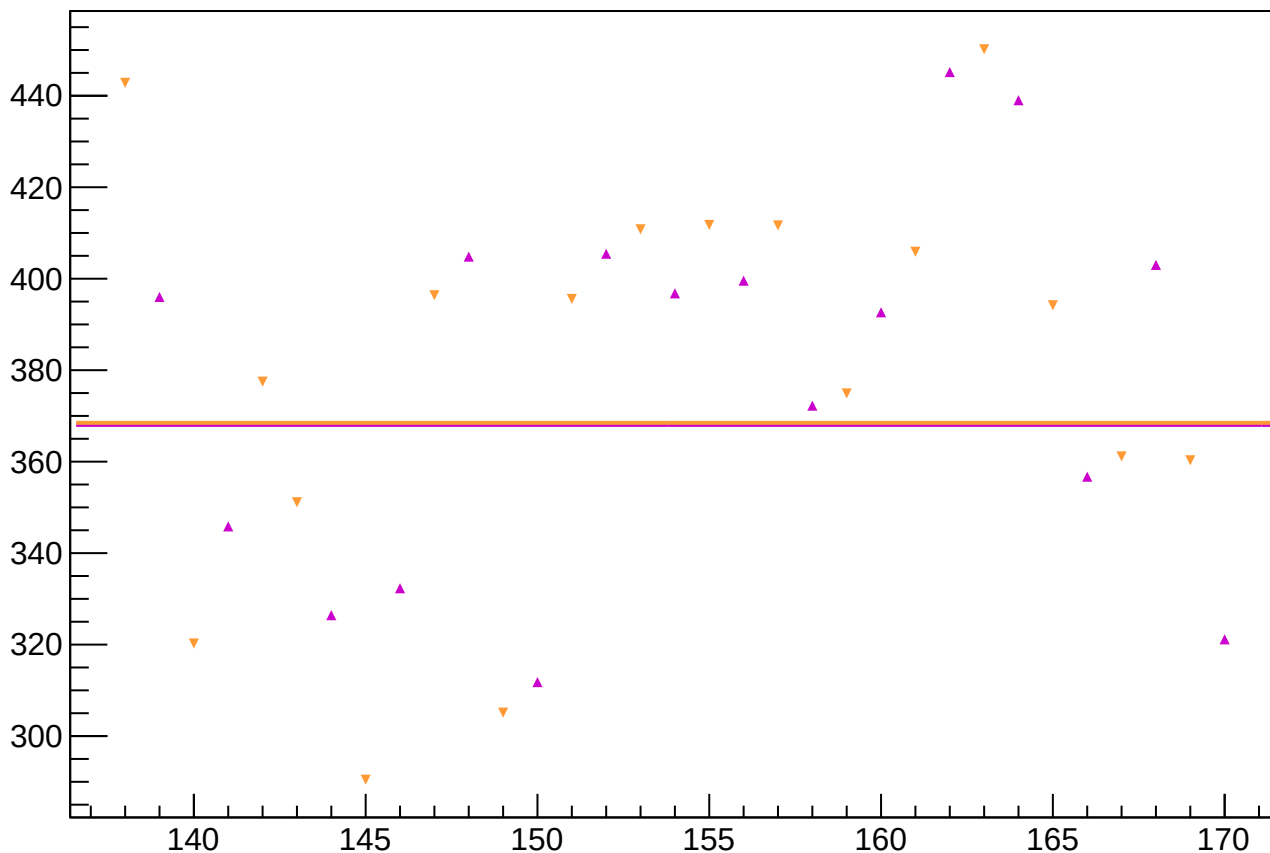
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 74.919 $\pm$ 104.985 χ^2 /NDF:25.7/15

Out: -425.899 $\pm$ 104.483 χ^2 /NDF:16.0/16

All: -176.692 $\pm$ 74.058 χ^2 /NDF: 53.1/32

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 368.491+/-0.074 χ^2/NDF : 399778.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 368.036+/-0.074 χ^2/NDF : 291644.4/15

Left: 368.265+/-0.052 χ^2/NDF : 691441.3/32

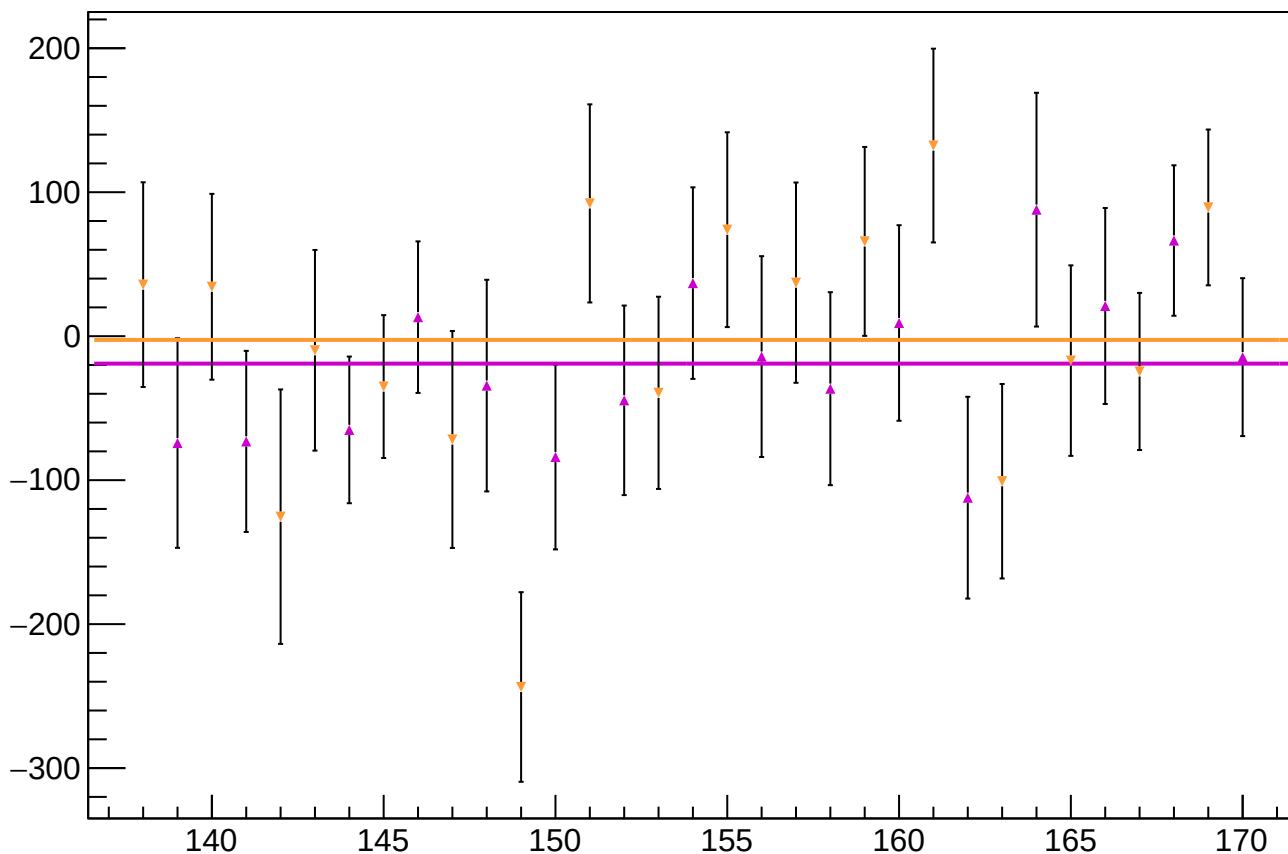
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 368.036+/-0.074 χ^2/NDF : 291644.4/15

Out: 368.491+/-0.074 χ^2/NDF : 399778.0/16

All: 368.265+/-0.052 χ^2/NDF : 691441.3/32

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -2.584+/-15.764 χ^2/NDF :31.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -19.060+/-15.835 χ^2/NDF :11.2/15

Left: -10.785+/-11.172 χ^2/NDF : 43.1/32

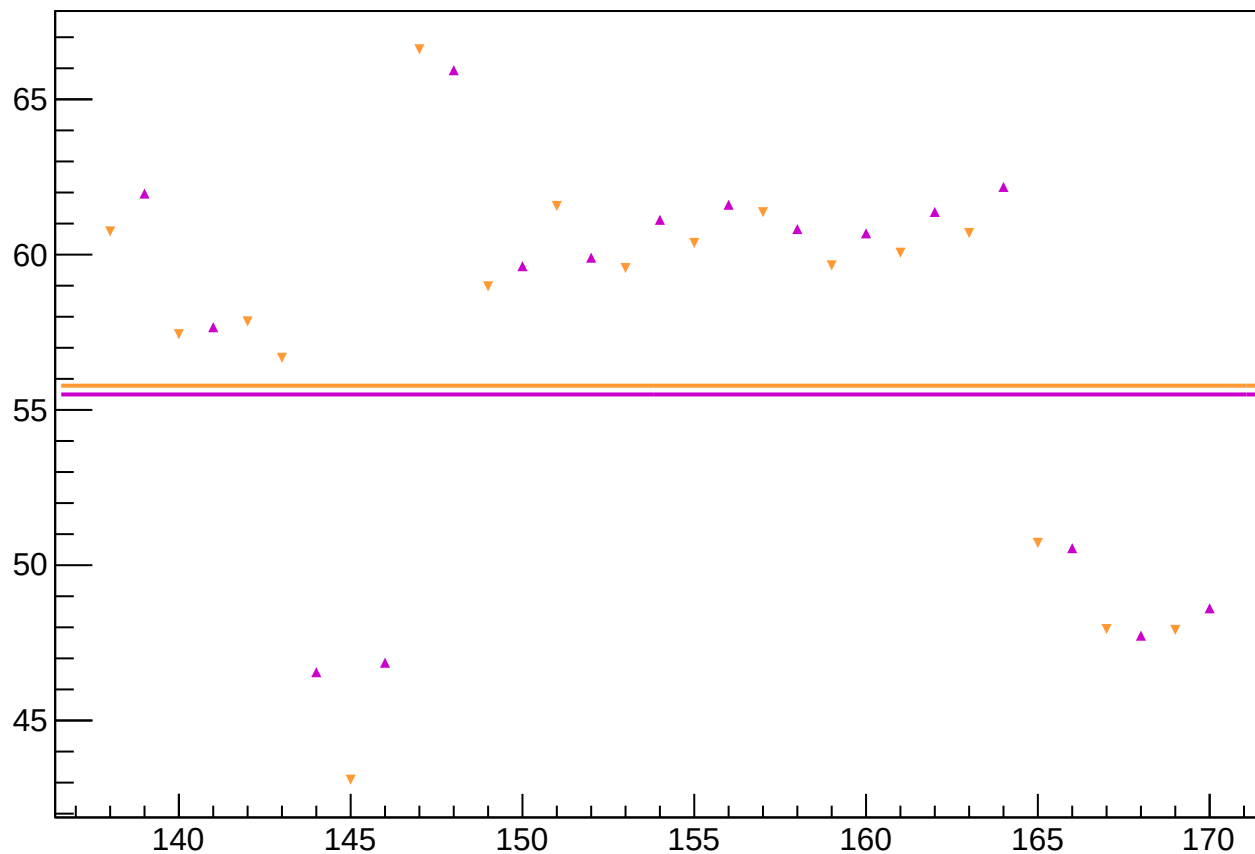
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -19.060+/-15.835 χ^2/NDF :11.2/15

Out: -2.584+/-15.764 χ^2/NDF :31.4/16

All: -10.785+/-11.172 χ^2/NDF : 43.1/32

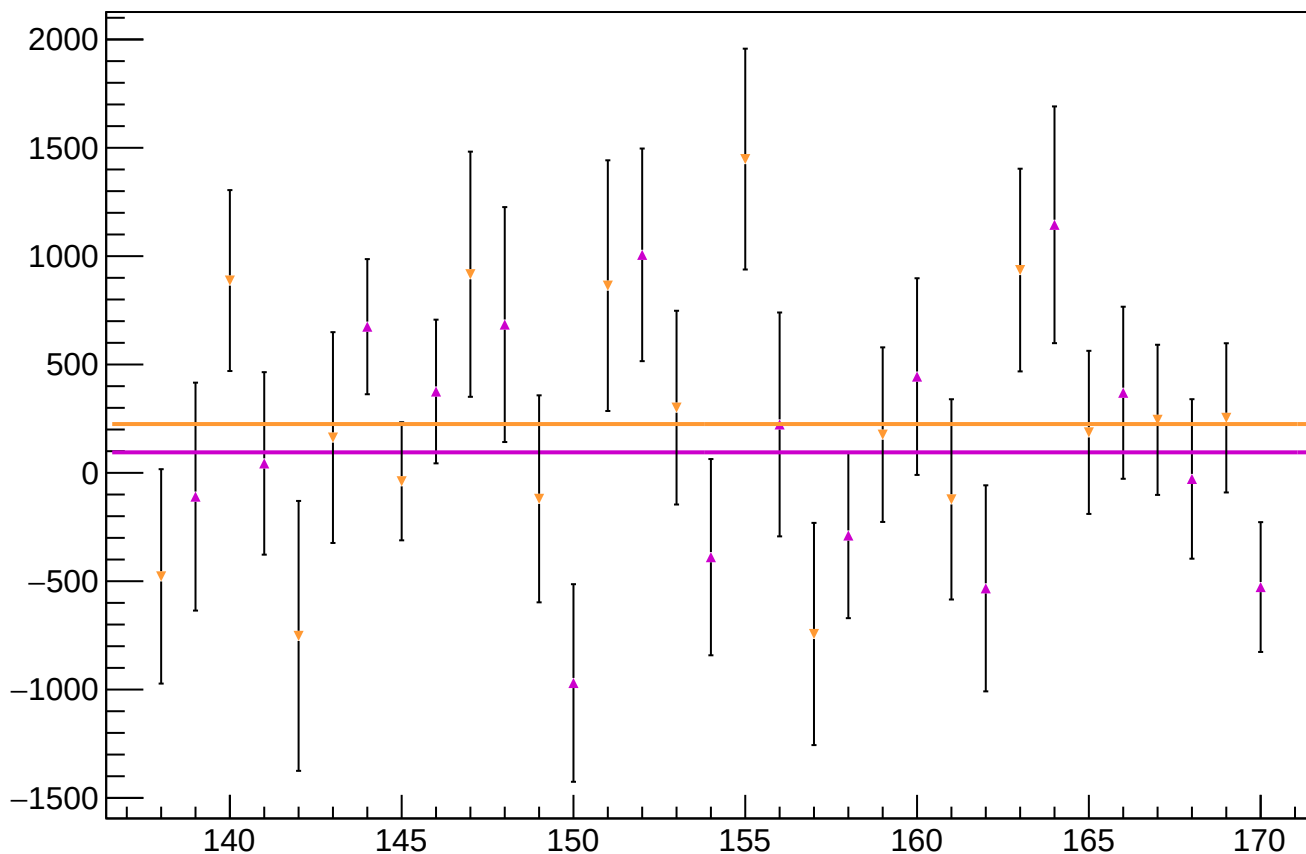
reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 55.781+/-0.011 χ^2/NDF :352911.5/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 55.498+/-0.011 χ^2/NDF :359137.5/15

Left: 55.640+/-0.008 χ^2/NDF : 712369.5/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 55.498+/-0.011 χ^2/NDF :359137.5/15
 Out: 55.781+/-0.011 χ^2/NDF :352911.5/16
 All: 55.640+/-0.008 χ^2/NDF : 712369.5/32

asym_sam_15_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 225.212+/-103.977 χ^2/NDF :23.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 94.670+/-103.136 χ^2/NDF :27.6/15

Left: 159.412+/-73.224 χ^2/NDF : 51.8/32

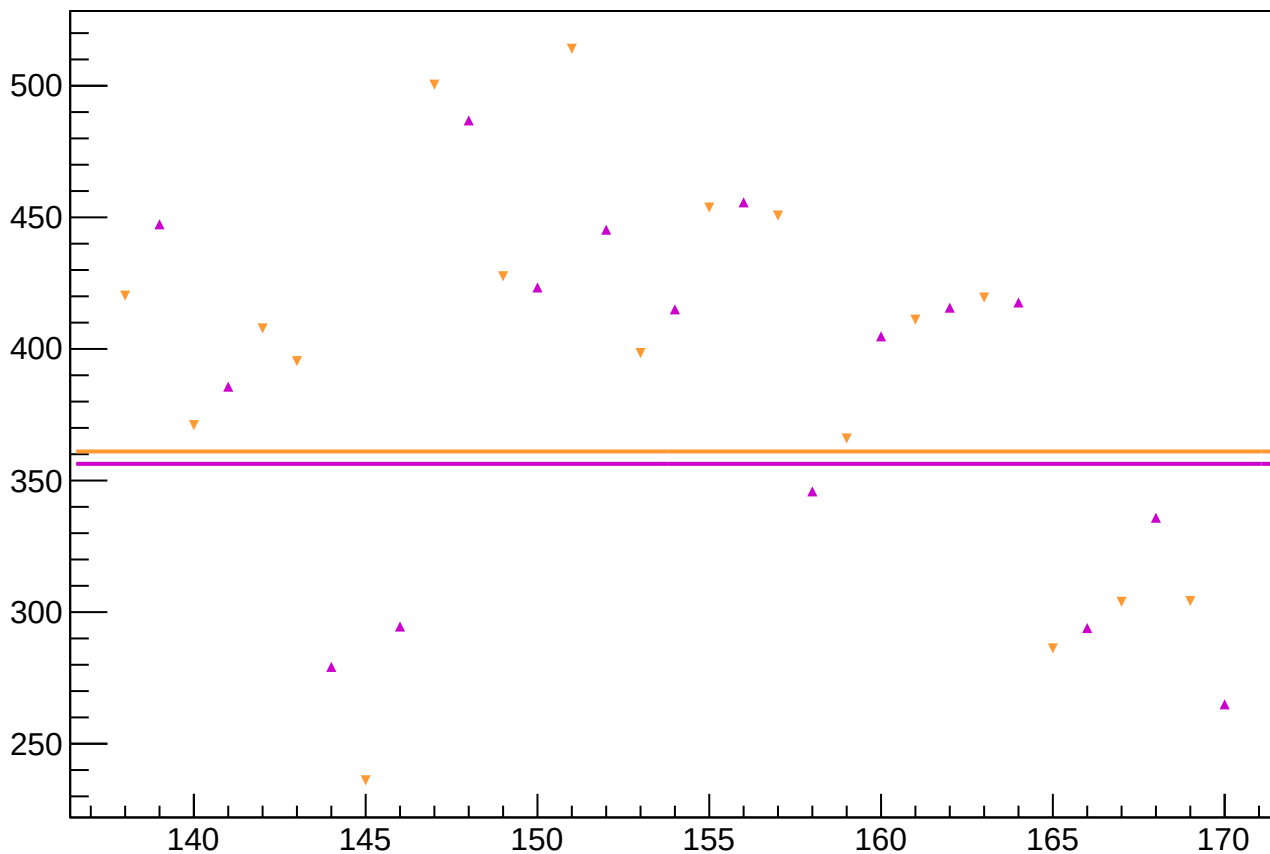
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 94.670+/-103.136 χ^2/NDF :27.6/15

Out: 225.212+/-103.977 χ^2/NDF :23.5/16

All: 159.412+/-73.224 χ^2/NDF : 51.8/32

asym_sam_15_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 361.054+/-0.074 χ^2/NDF :1155971.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 356.343+/-0.073 χ^2/NDF :916459.9/15

Left: 358.680+/-0.052 χ^2/NDF : 2074501.8/32

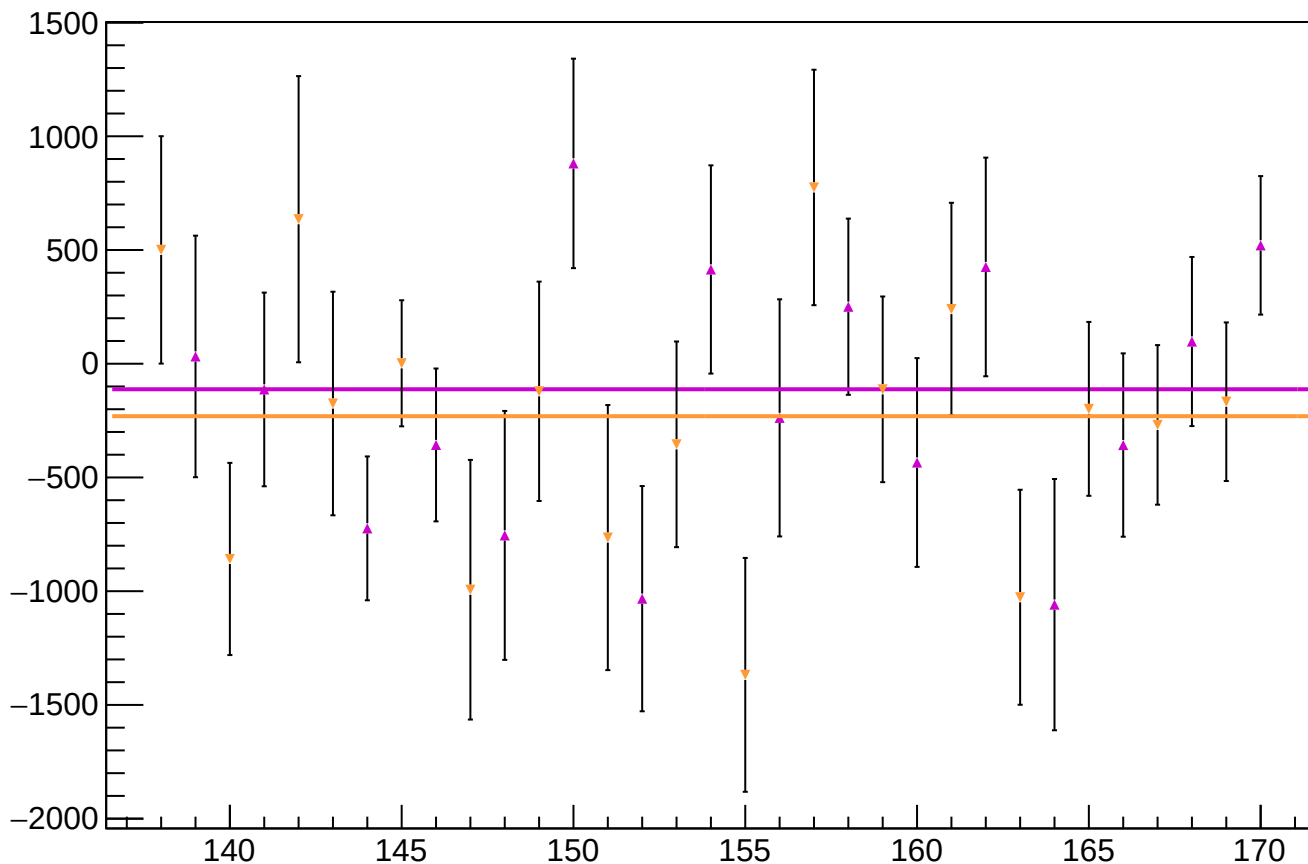
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 356.343+/-0.073 χ^2/NDF :916459.9/15

Out: 361.054+/-0.074 χ^2/NDF :1155971.8/16

All: 358.680+/-0.052 χ^2/NDF : 2074501.8/32

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -230.691+/-105.242 χ^2/NDF :22.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -112.245+/-104.425 χ^2/NDF :25.8/15

Left: -171.007+/-74.127 χ^2/NDF : 48.8/32

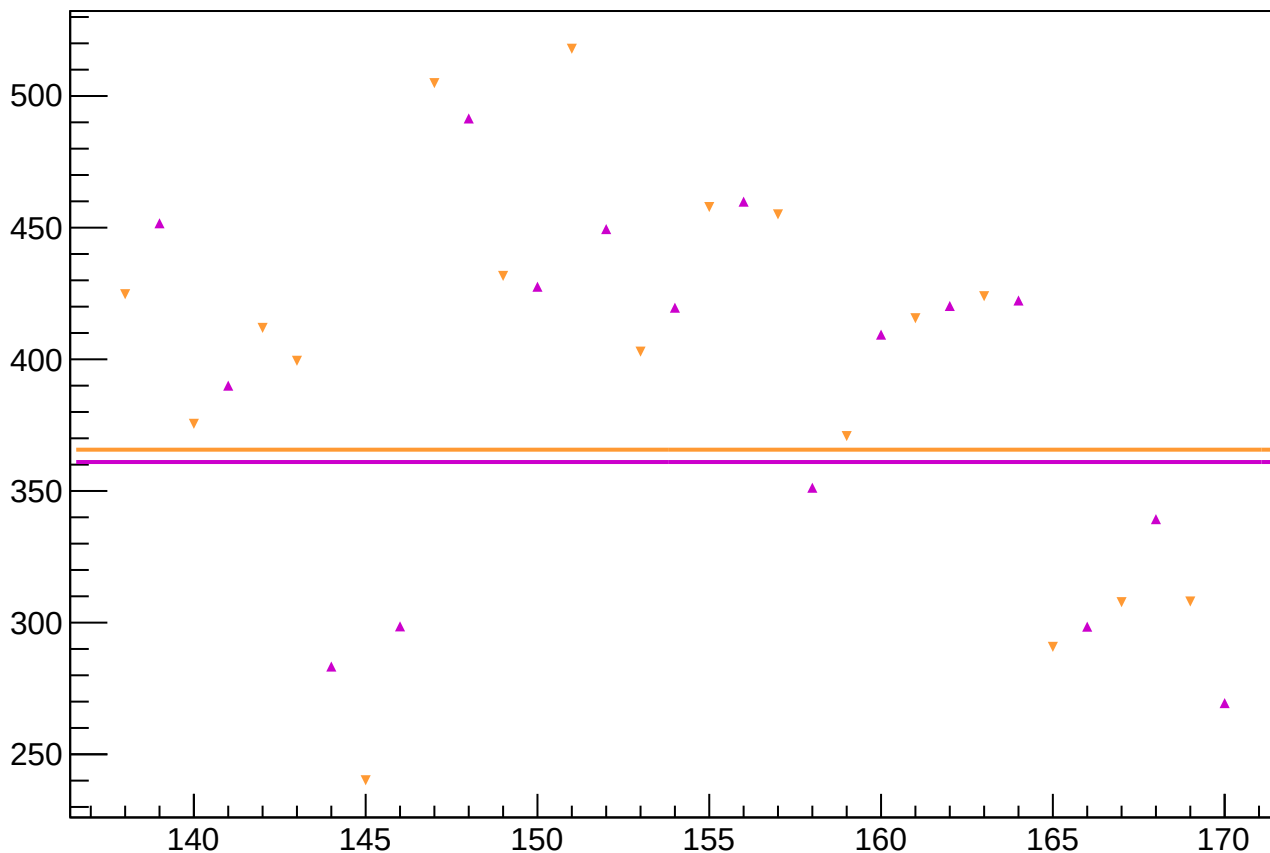
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -112.245+/-104.425 χ^2/NDF :25.8/15

Out: -230.691+/-105.242 χ^2/NDF :22.4/16

All: -171.007+/-74.127 χ^2/NDF : 48.8/32

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 365.684+/-0.074 χ^2/NDF :1129775.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 360.994+/-0.074 χ^2/NDF :895668.6/15

Left: 363.321+/-0.052 χ^2/NDF : 2027445.8/32

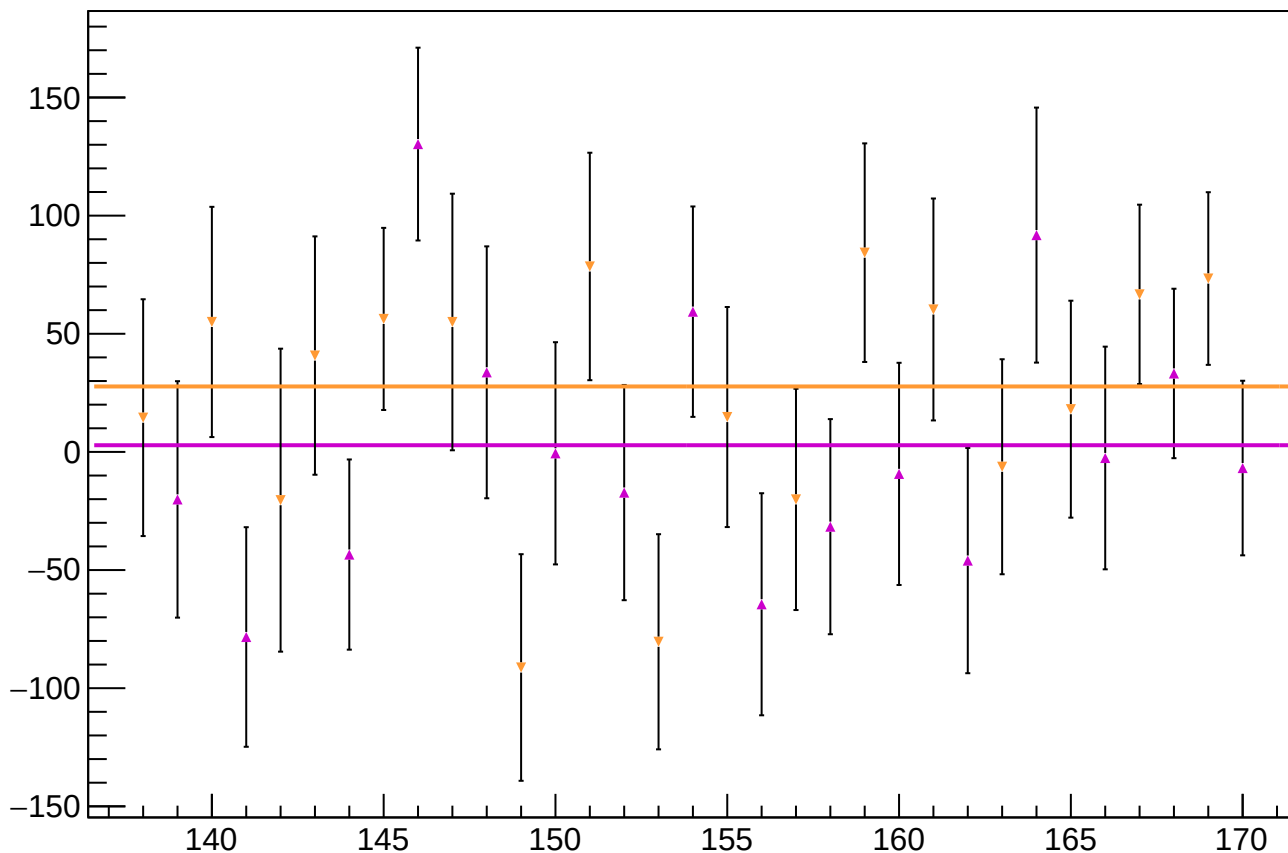
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 360.994+/-0.074 χ^2/NDF :895668.6/15

Out: 365.684+/-0.074 χ^2/NDF :1129775.4/16

All: 363.321+/-0.052 χ^2/NDF : 2027445.8/32

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 27.701 $\pm$ 11.141 χ^2 /NDF:21.0/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 2.829 $\pm$ 11.178 χ^2 /NDF:23.7/15

Left: 15.306 $\pm$ 7.891 χ^2 /NDF: 47.3/32

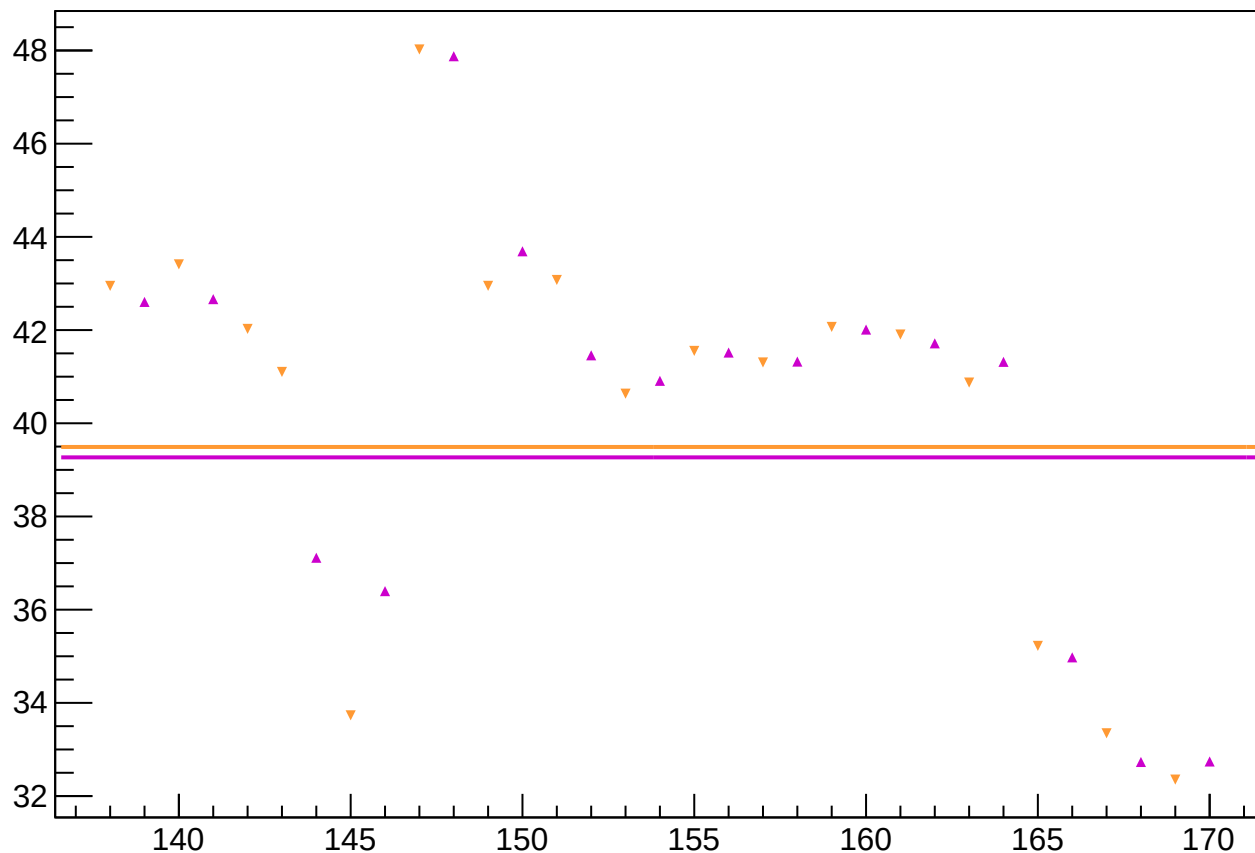
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 2.829 $\pm$ 11.178 χ^2 /NDF:23.7/15

Out: 27.701 $\pm$ 11.141 χ^2 /NDF:21.0/16

All: 15.306 $\pm$ 7.891 χ^2 /NDF: 47.3/32

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 39.492+/-0.008 χ^2/NDF :310665.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 39.268+/-0.008 χ^2/NDF :281465.1/15

Left: 39.380+/-0.006 χ^2/NDF : 592530.7/32

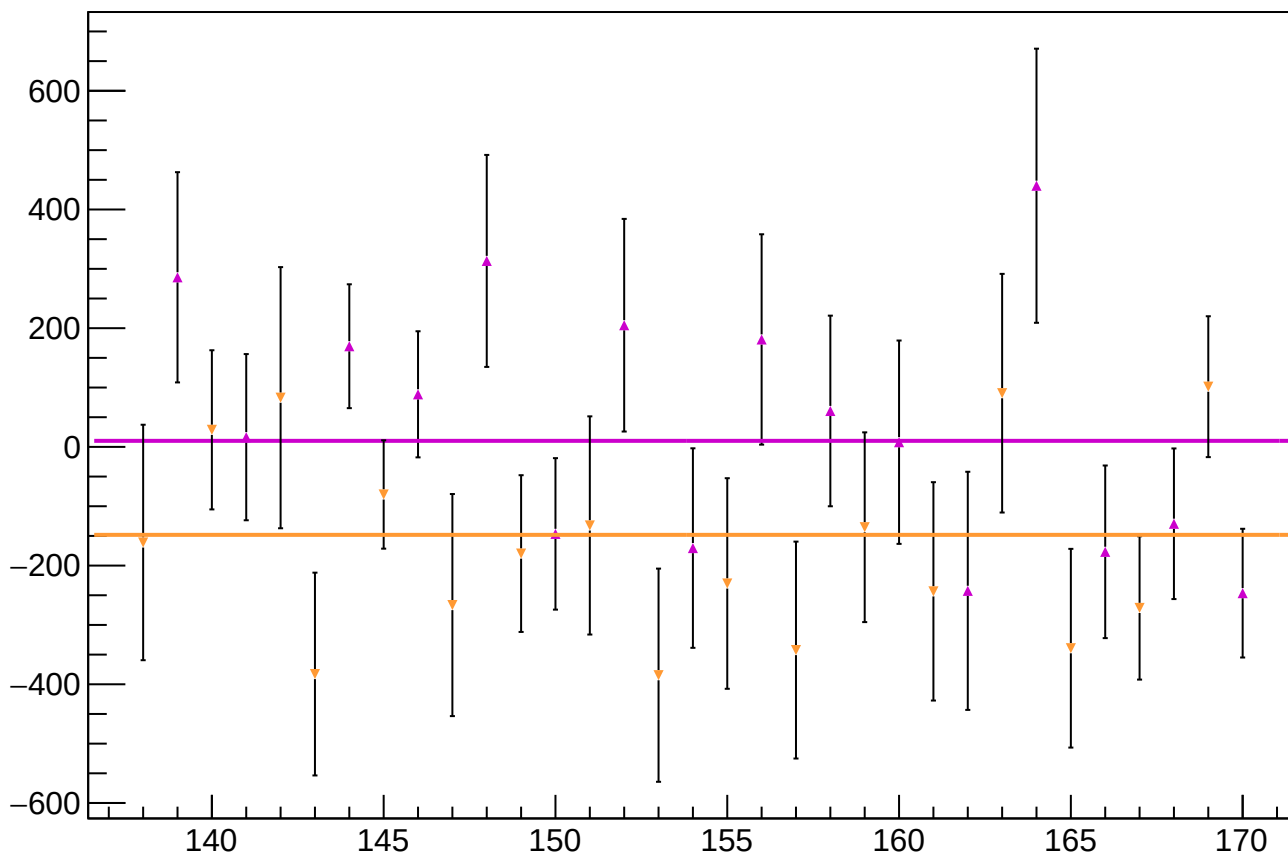
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 39.268+/-0.008 χ^2/NDF :281465.1/15

Out: 39.492+/-0.008 χ^2/NDF :310665.1/16

All: 39.380+/-0.006 χ^2/NDF : 592530.7/32

asym_sam_37_26_dd_correction_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -148.213+/-36.941 χ^2/NDF :17.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 10.183+/-36.148 χ^2/NDF :26.6/15

Left: -67.296+/-25.836 χ^2/NDF : 53.2/32

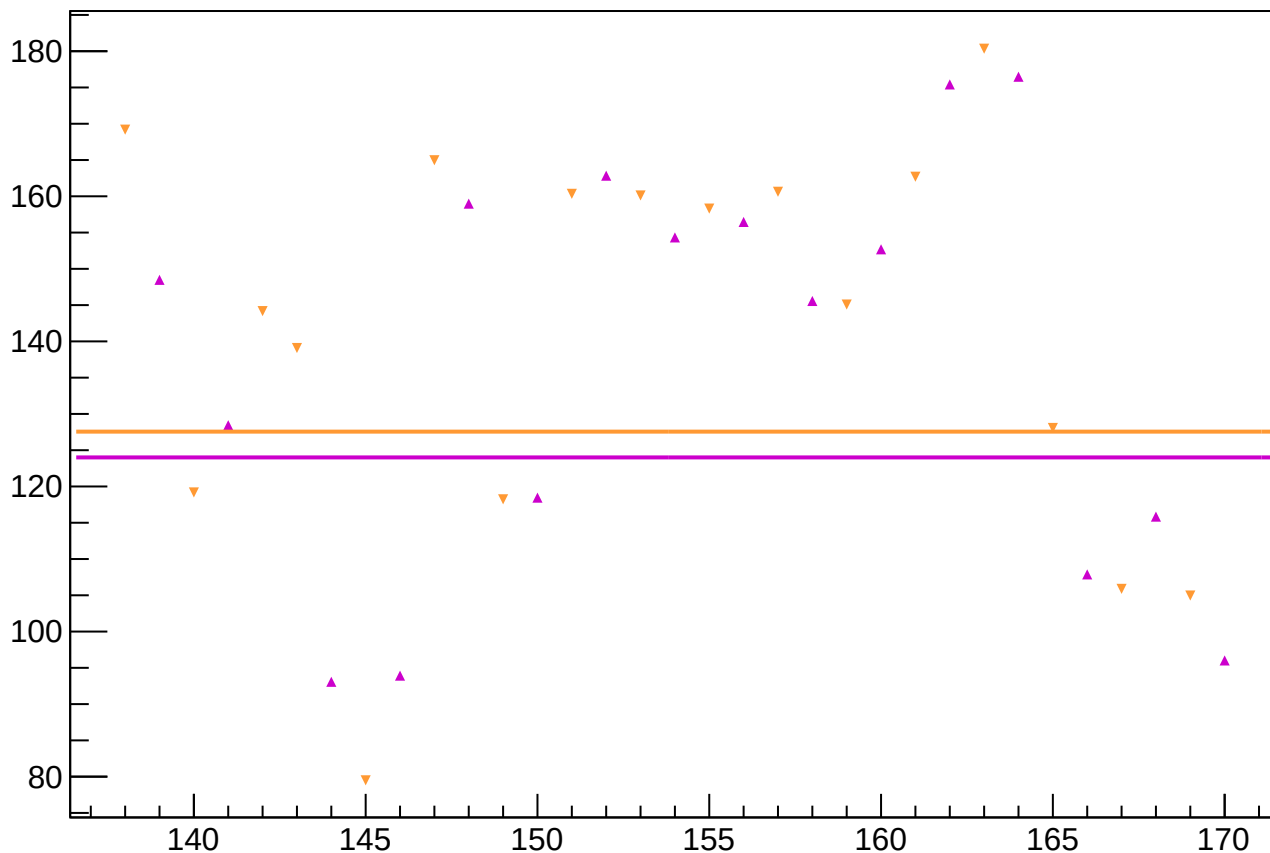
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 10.183+/-36.148 χ^2/NDF :26.6/15

Out: -148.213+/-36.941 χ^2/NDF :17.3/16

All: -67.296+/-25.836 χ^2/NDF : 53.2/32

asym_sam_37_26_dd_correction_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 127.561+/-0.026 χ^2/NDF :1387251.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 124.006+/-0.026 χ^2/NDF :1175745.5/15

Left: 125.745+/-0.018 χ^2/NDF : 2572459.4/32

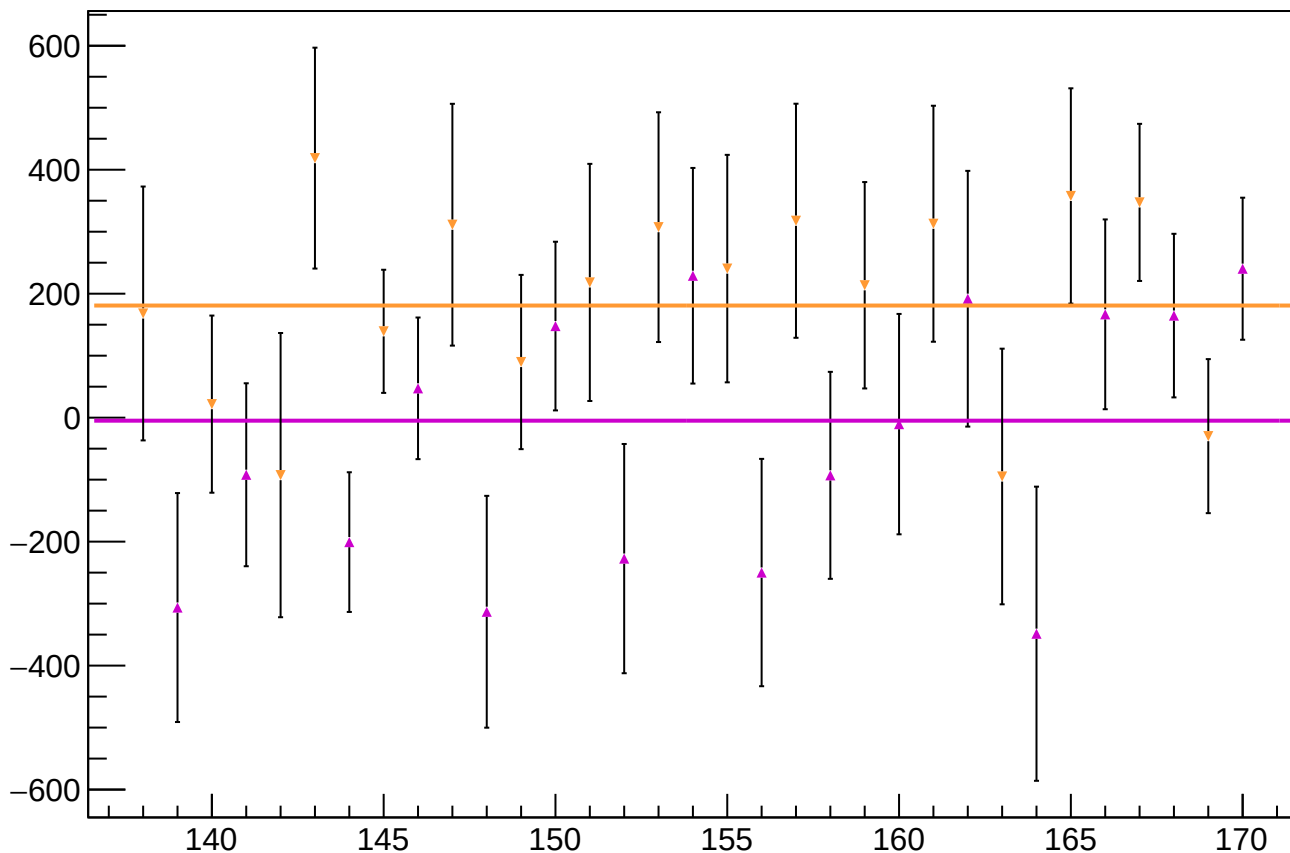
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 124.006+/-0.026 χ^2/NDF :1175745.5/15

Out: 127.561+/-0.026 χ^2/NDF :1387251.7/16

All: 125.745+/-0.018 χ^2/NDF : 2572459.4/32

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 180.899+/-38.832 χ^2/NDF :14.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -4.871+/-38.062 χ^2/NDF :26.0/15

Left: 86.154+/-27.182 χ^2/NDF : 52.3/32

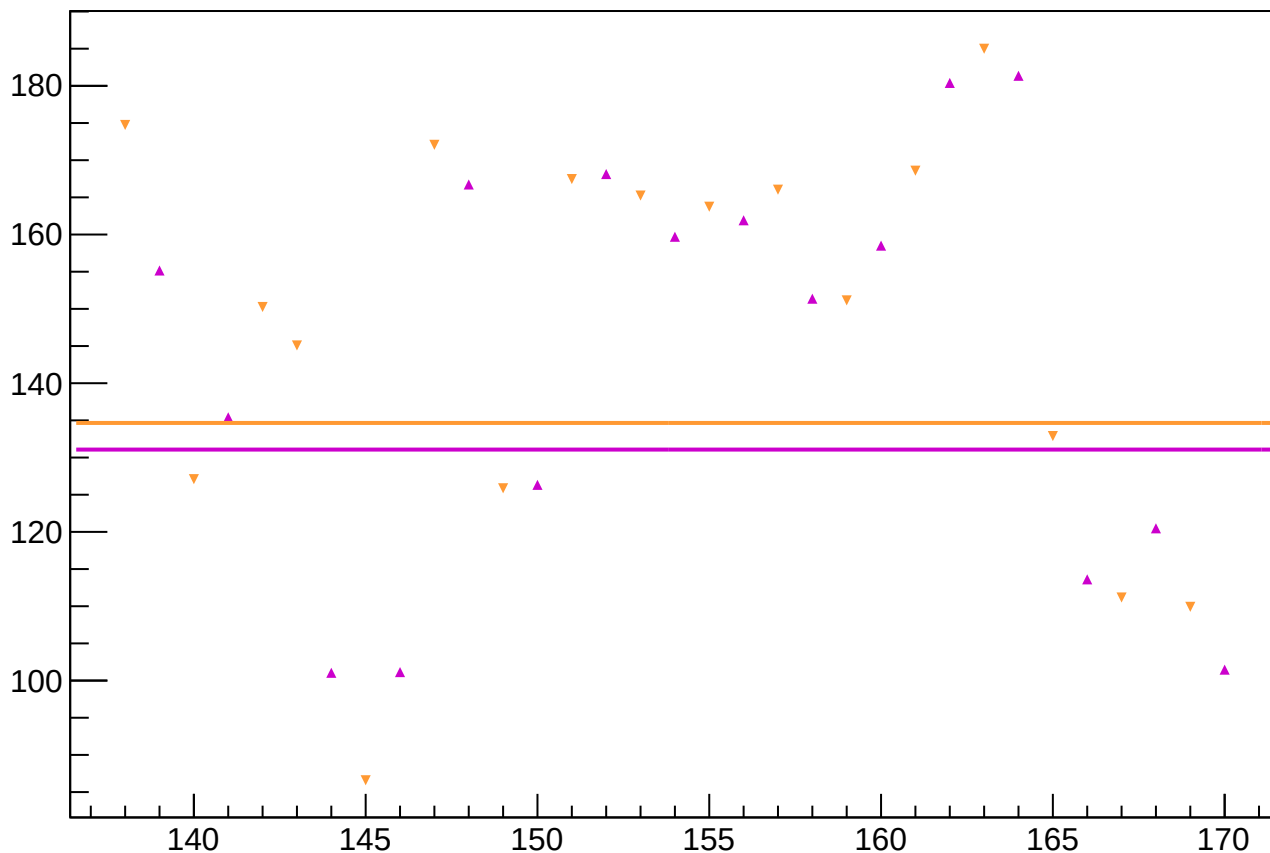
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -4.871+/-38.062 χ^2/NDF :26.0/15

Out: 180.899+/-38.832 χ^2/NDF :14.6/16

All: 86.154+/-27.182 χ^2/NDF : 52.3/32

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

Left Out: 134.656 $\pm$ 0.027 χ^2/NDF :1217340.3/16

Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

Left In: 131.073 $\pm$ 0.027 χ^2/NDF :1035024.6/15

Left: 132.828 $\pm$ 0.019 χ^2/NDF : 2261049.1/32

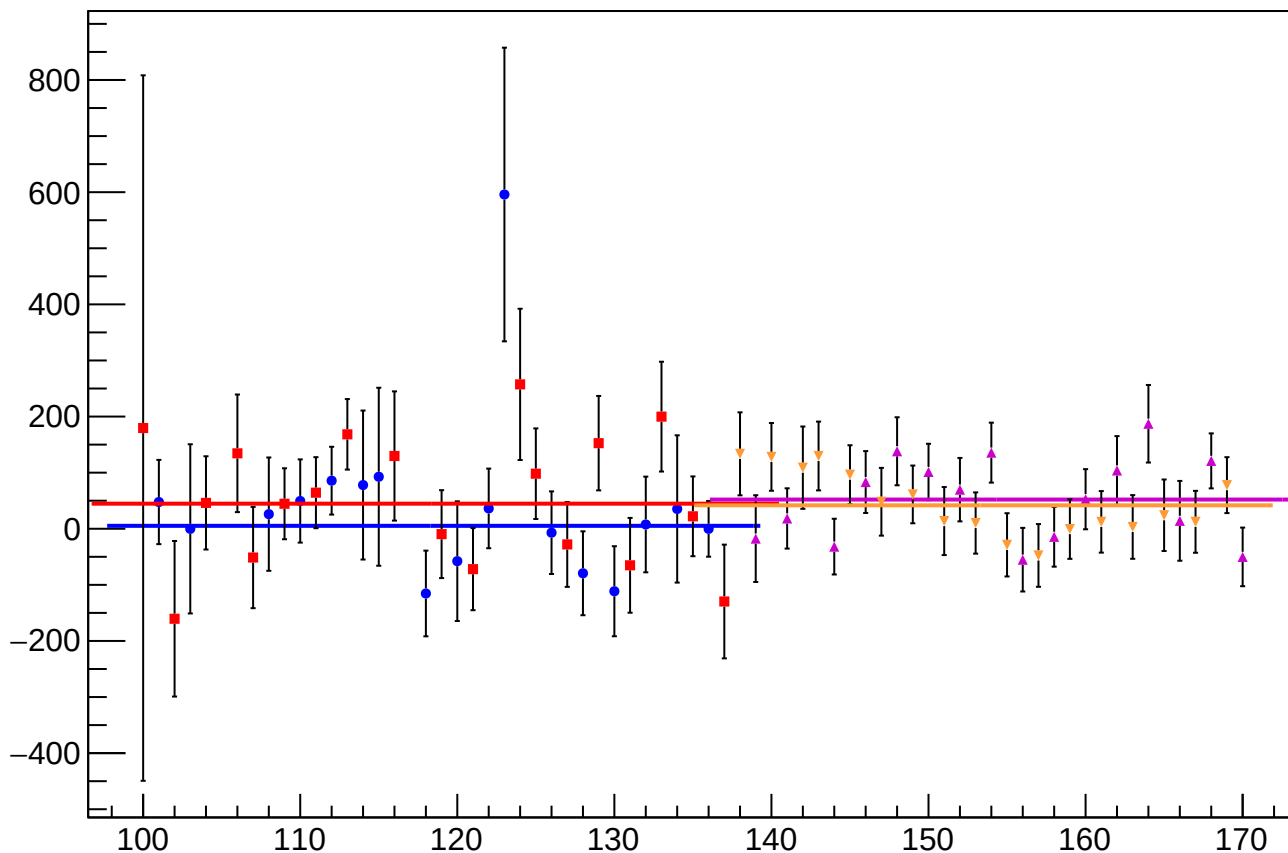
Right: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

In: 131.073 $\pm$ 0.027 χ^2/NDF :1035024.6/15

Out: 134.656 $\pm$ 0.027 χ^2/NDF :1217340.3/16

All: 132.828 $\pm$ 0.019 χ^2/NDF : 2261049.1/32

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 5.220 ± 20.150 χ^2/NDF : 14.7/16

Left Out: 41.777 ± 13.945 χ^2/NDF : 14.7/16

Right Out: 44.715 ± 19.410 χ^2/NDF : 24.4/18

Left In: 52.058 ± 14.076 χ^2/NDF : 25.7/15

Left: 46.870 ± 9.907 χ^2/NDF : 40.6/32

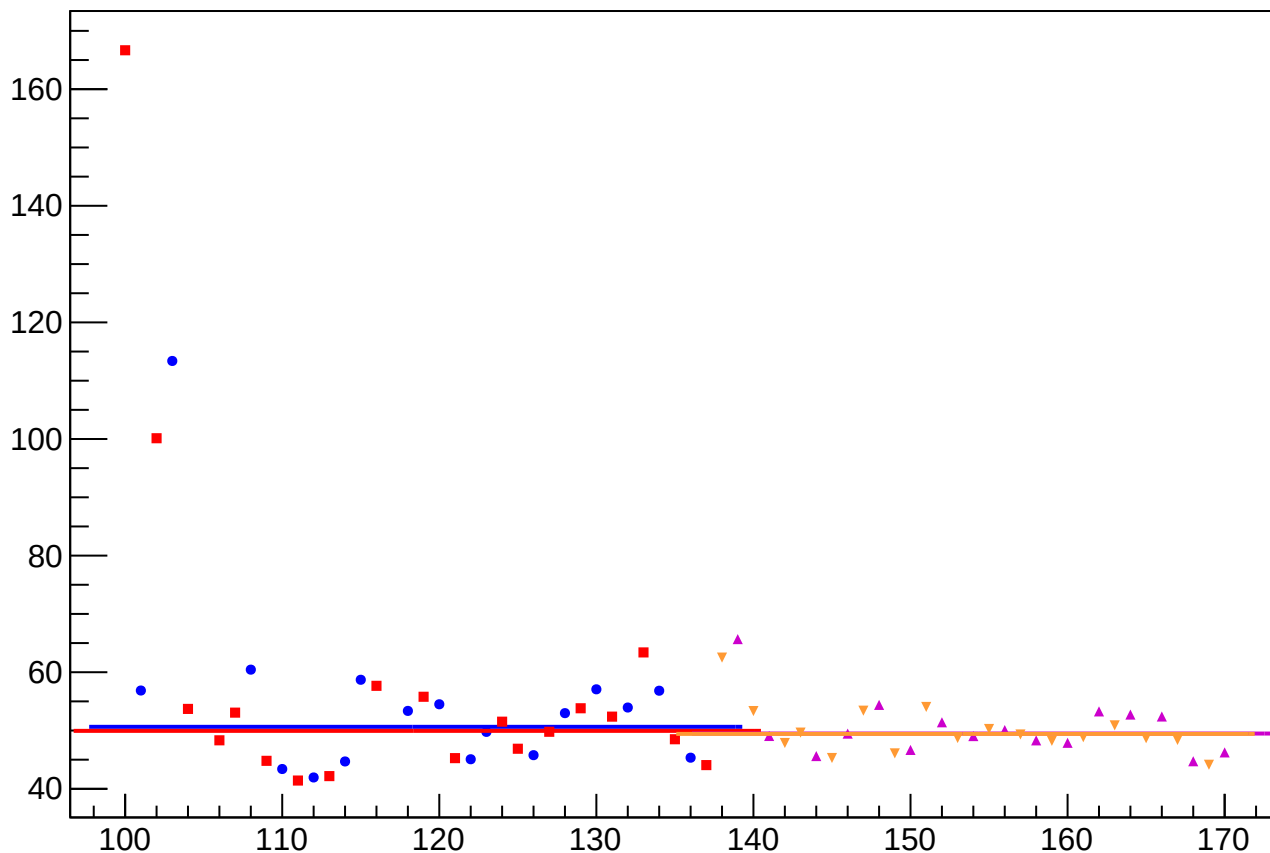
Right: 25.706 ± 13.979 χ^2/NDF : 41.1/35

In: 36.698 ± 11.539 χ^2/NDF : 44.0/32

Out: 42.777 ± 11.326 χ^2/NDF : 39.1/35

All: 39.794 ± 8.083 χ^2/NDF : 83.2/68

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 50.635 $\pm$ 0.014 χ^2 /NDF: 519687.1/16

Left Out: 49.423 $\pm$ 0.010 χ^2 /NDF: 140015.3/16

Right Out: 49.943 $\pm$ 0.014 χ^2 /NDF: 500488.8/18

Left In: 49.483 $\pm$ 0.010 χ^2 /NDF: 166757.8/15

Left: 49.453 $\pm$ 0.007 χ^2 /NDF: 306791.5/32

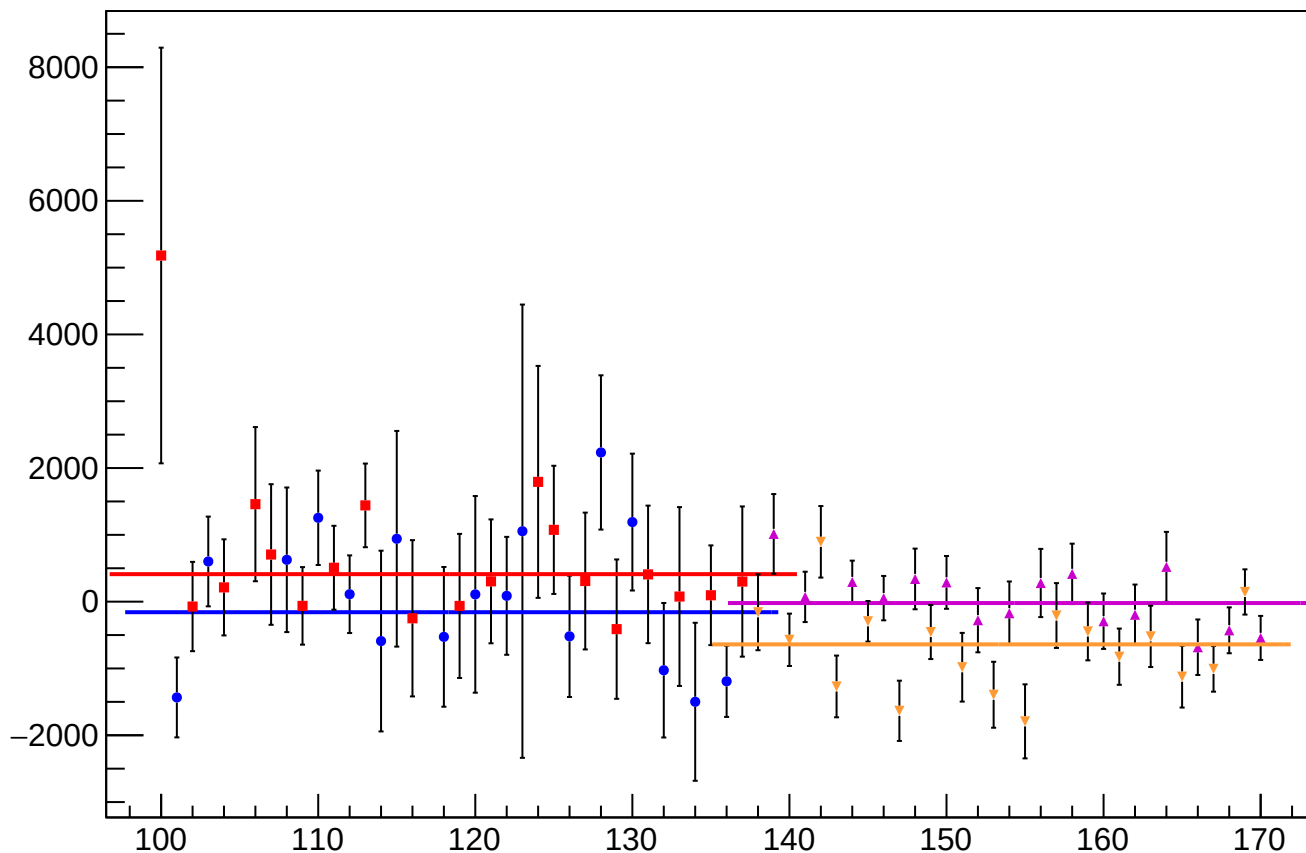
Right: 50.276 $\pm$ 0.010 χ^2 /NDF: 1021399.4/35

In: 49.861 $\pm$ 0.008 χ^2 /NDF: 690837.8/32

Out: 49.600 $\pm$ 0.008 χ^2 /NDF: 641450.9/35

All: 49.728 $\pm$ 0.006 χ^2 /NDF: 1332809.2/68

asym_sam_1357_avg_correction_mean vs Slug, Sign Corrected



Right In: -158.001+/-210.181 χ^2/NDF : 23.5/16

Left Out: -639.346+/-103.852 χ^2/NDF :33.1/16

Right Out: 411.611+/-203.633 χ^2/NDF : 9.8/18

Left In: -20.762+/-102.422 χ^2/NDF :15.1/15

Left: -325.767+/-72.924 χ^2/NDF : 66.3/32

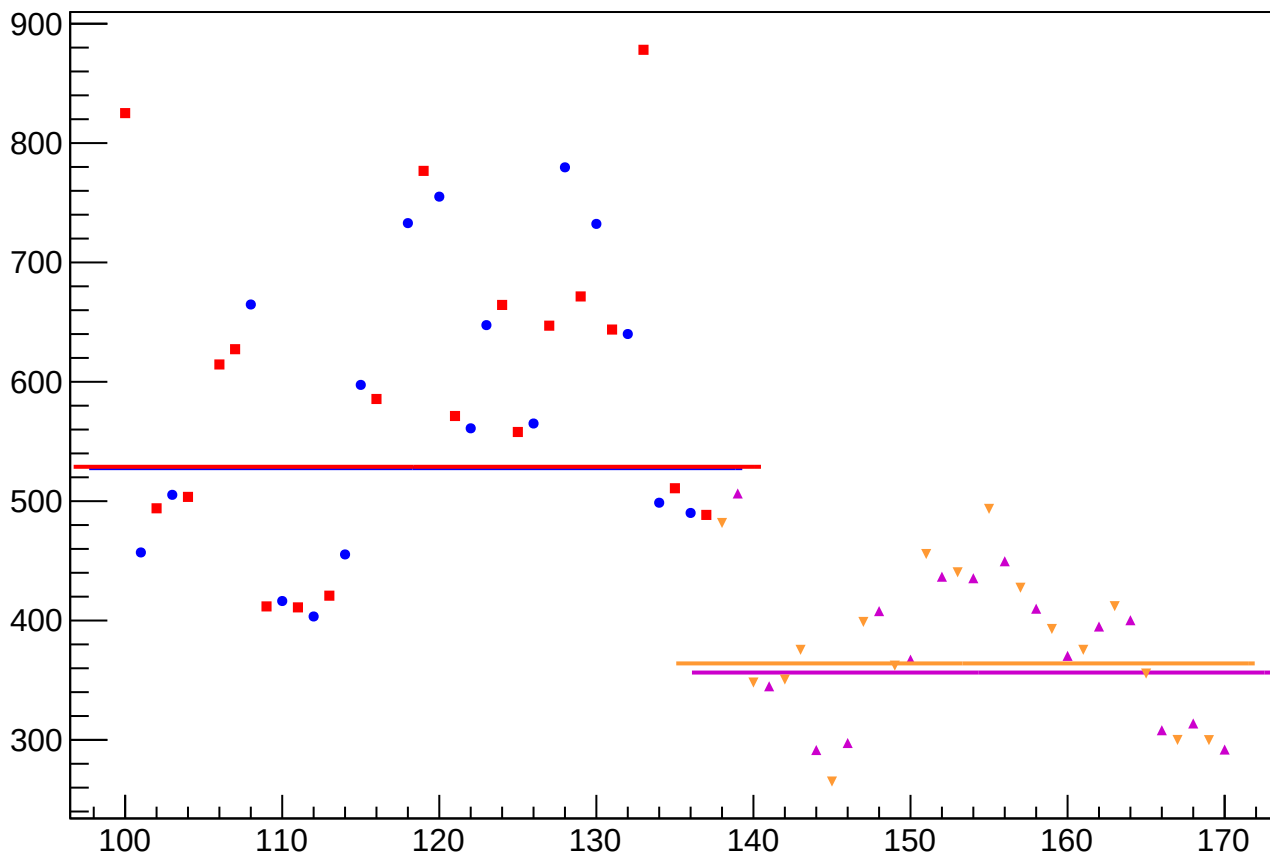
Right: 135.816+/-146.251 χ^2/NDF : 37.0/35

In: -47.098+/-92.072 χ^2/NDF :38.9/32

Out: -422.419+/-92.515 χ^2/NDF :64.1/35

All: -233.857+/-65.261 χ^2/NDF : 111.3/68

asym_sam_1357_avg_correction_rms vs Slug, Sign Corrected



Right In: 527.663 $\pm$ 0.149 χ^2 /NDF: 557423.6/16

Left Out: 364.073 $\pm$ 0.073 χ^2 /NDF: 745532.8/16

Right Out: 528.806 $\pm$ 0.144 χ^2 /NDF: 623364.6/18

Left In: 356.418 $\pm$ 0.072 χ^2 /NDF: 672907.0/15

Left: 360.193 $\pm$ 0.052 χ^2 /NDF: 1423948.6/32

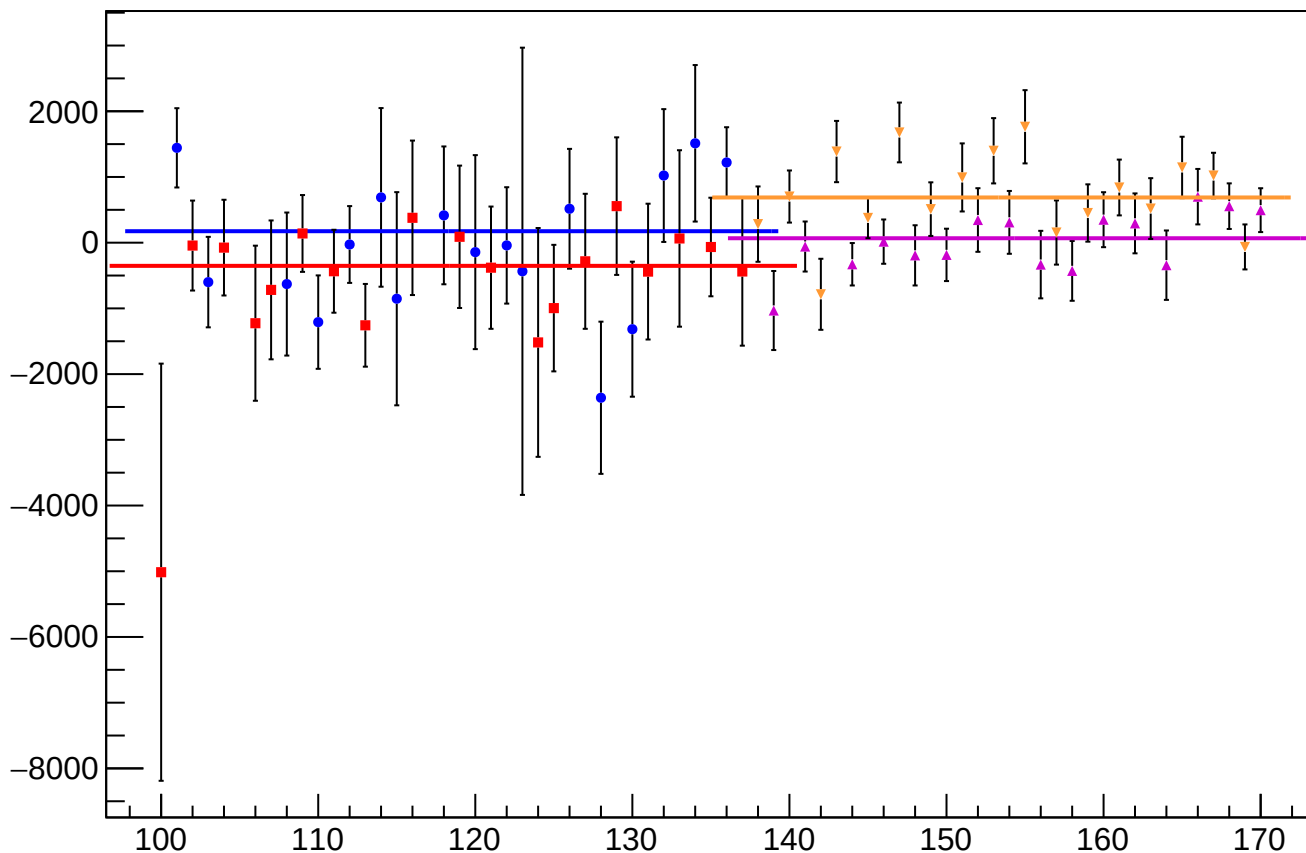
Right: 528.253 $\pm$ 0.103 χ^2 /NDF: 1180818.7/35

In: 389.279 $\pm$ 0.065 χ^2 /NDF: 2303197.9/32

Out: 398.076 $\pm$ 0.065 χ^2 /NDF: 2407599.0/35

All: 393.656 $\pm$ 0.046 χ^2 /NDF: 4719880.1/68

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 174.605 $\pm$ 211.662 χ^2 /NDF: 23.7/16

Left Out: 687.994 $\pm$ 104.881 χ^2 /NDF:30.7/16

Right Out: -352.570 $\pm$ 205.204 χ^2 /NDF: 8.4/18

Left In: 67.545 $\pm$ 103.477 χ^2 /NDF:15.3/15

Left: 373.589 $\pm$ 73.661 χ^2 /NDF: 63.7/32

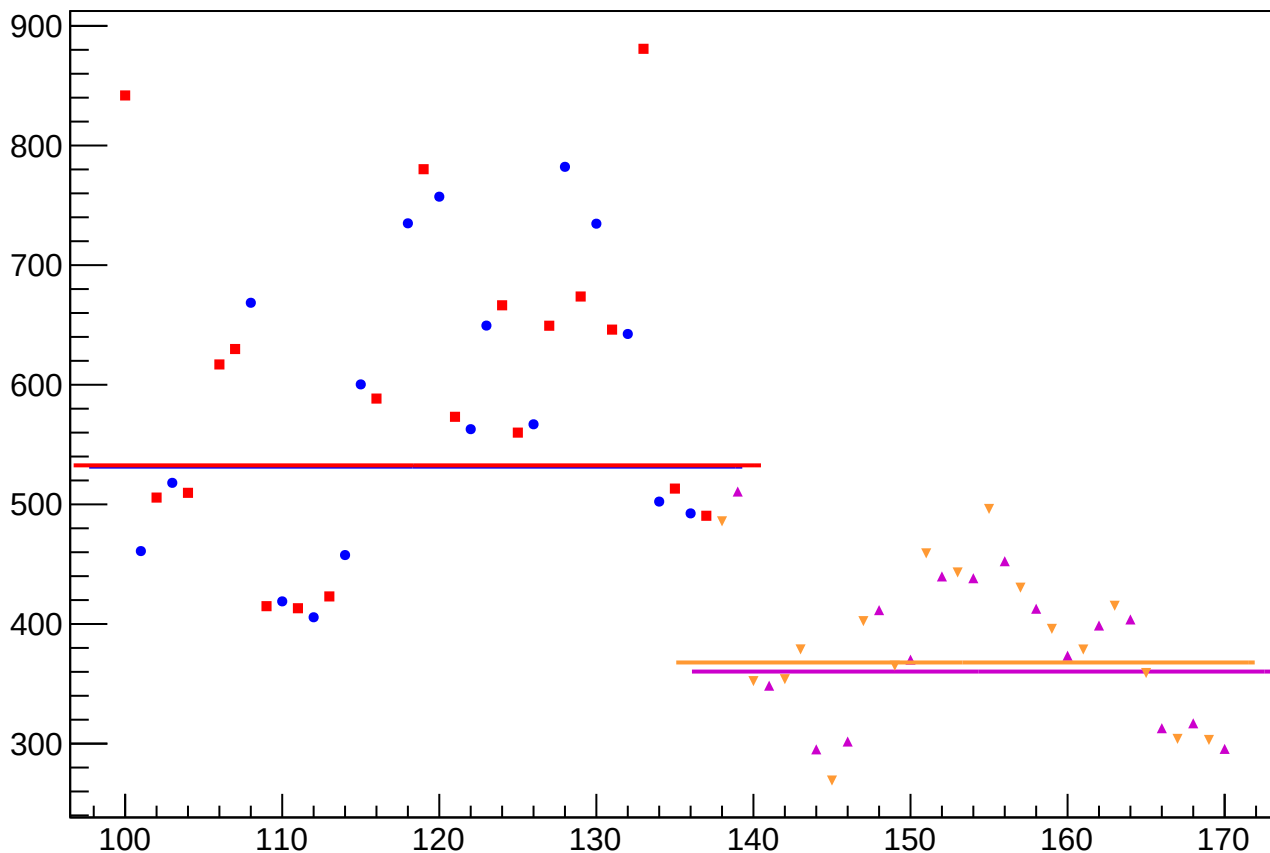
Right: -97.148 $\pm$ 147.331 χ^2 /NDF: 35.3/35

In: 88.197 $\pm$ 92.962 χ^2 /NDF:39.2/32

Out: 472.469 $\pm$ 93.390 χ^2 /NDF:59.5/35

All: 279.452 $\pm$ 65.885 χ^2 /NDF: 107.2/68

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 531.554 $\pm$ 0.150 χ^2 /NDF: 550087.6/16

Left Out: 367.841 $\pm$ 0.074 χ^2 /NDF: 724287.9/16

Right Out: 532.620 $\pm$ 0.145 χ^2 /NDF: 615746.2/18

Left In: 360.240 $\pm$ 0.073 χ^2 /NDF: 654447.4/15

Left: 363.989 $\pm$ 0.052 χ^2 /NDF: 1384058.2/32

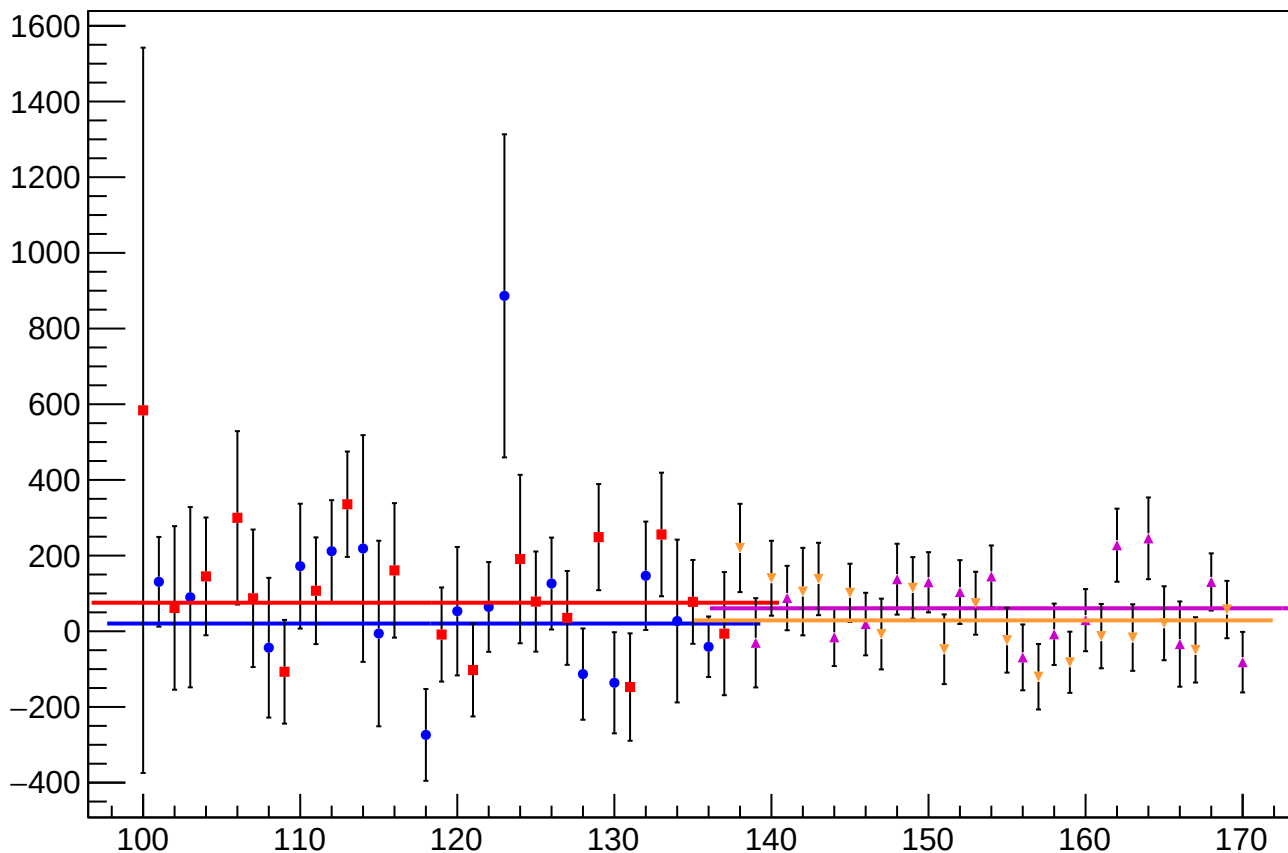
Right: 532.104 $\pm$ 0.104 χ^2 /NDF: 1165860.0/35

In: 393.286 $\pm$ 0.066 χ^2 /NDF: 2261979.2/32

Out: 401.971 $\pm$ 0.066 χ^2 /NDF: 2362553.3/35

All: 397.609 $\pm$ 0.047 χ^2 /NDF: 4633219.3/68

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 20.441 $\pm$ 34.583 χ^2 /NDF: 19.3/16

Left Out: 28.767 $\pm$ 21.517 χ^2 /NDF:15.5/16

Right Out: 75.454 $\pm$ 34.698 χ^2 /NDF: 15.4/18

Left In: 60.790 $\pm$ 21.685 χ^2 /NDF:18.4/15

Left: 44.654 $\pm$ 15.274 χ^2 /NDF: 35.0/32

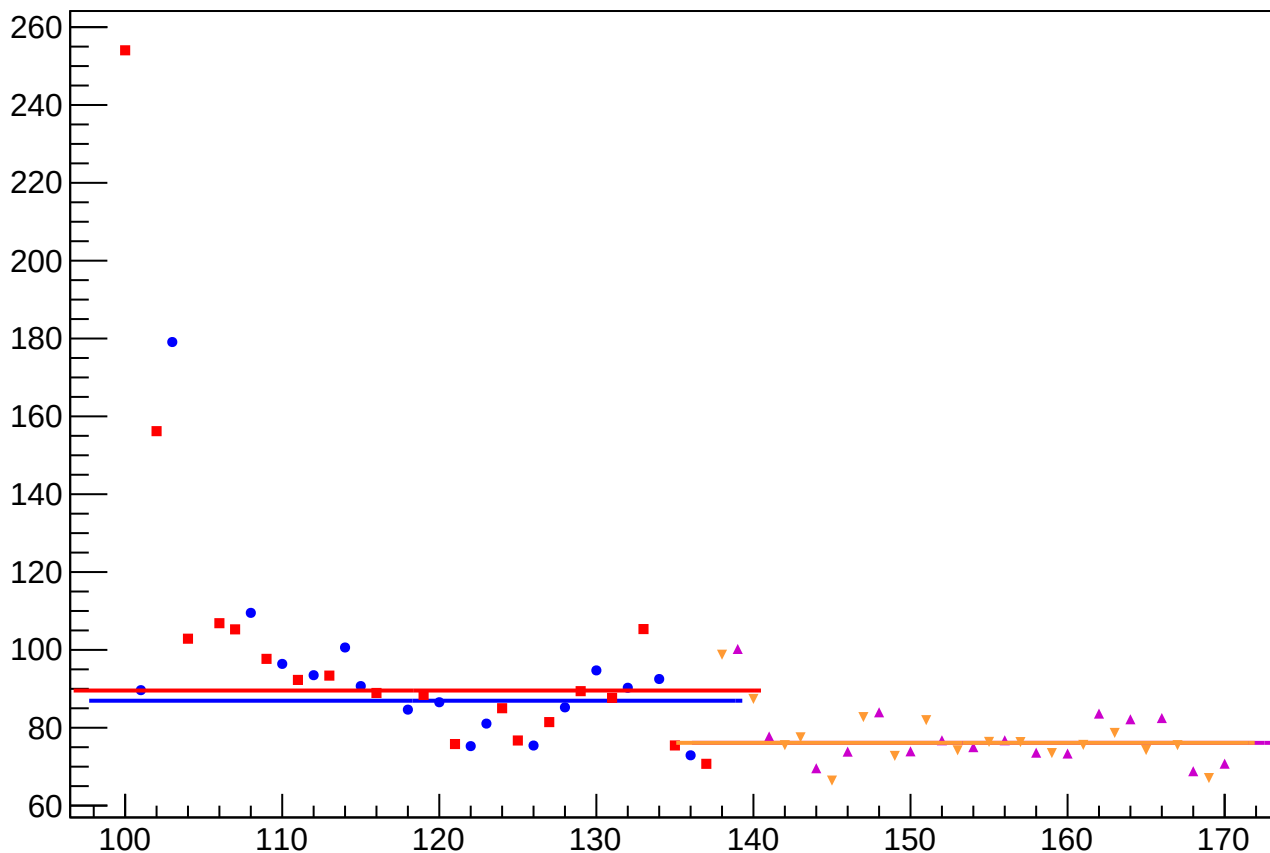
Right: 47.856 $\pm$ 24.495 χ^2 /NDF: 35.9/35

In: 49.403 $\pm$ 18.372 χ^2 /NDF:38.7/32

Out: 41.734 $\pm$ 18.286 χ^2 /NDF:32.2/35

All: 45.550 $\pm$ 12.960 χ^2 /NDF: 71.0/68

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 86.943+/-0.024 χ^2/NDF : 455809.4/16

Left Out: 76.123+/-0.015 χ^2/NDF : 189287.3/16

Right Out: 89.561+/-0.025 χ^2/NDF : 431229.7/18

Left In: 76.116+/-0.015 χ^2/NDF : 173276.8/15

Left: 76.120+/-0.011 χ^2/NDF : 362564.2/32

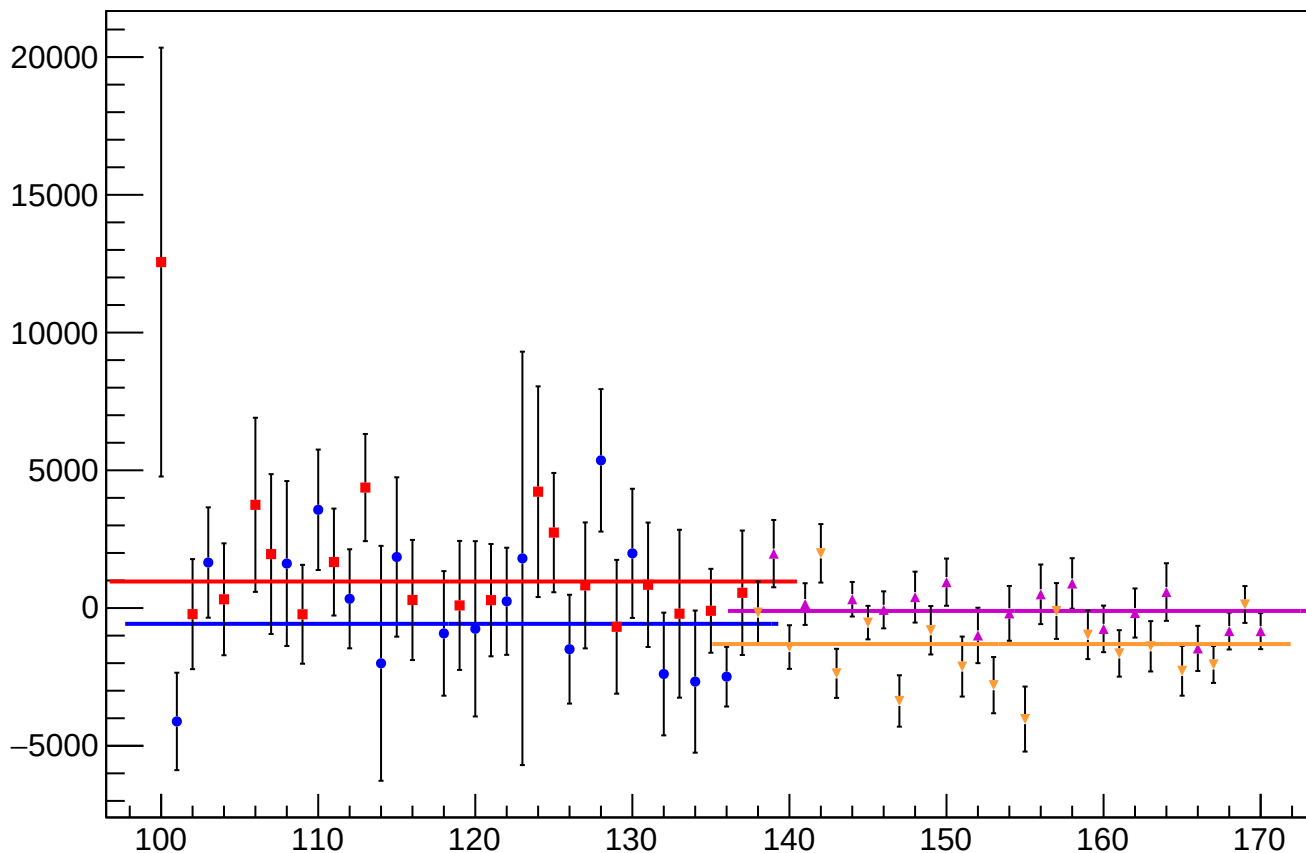
Right: 88.247+/-0.017 χ^2/NDF : 892752.0/35

In: 79.172+/-0.013 χ^2/NDF : 769770.0/32

Out: 79.855+/-0.013 χ^2/NDF : 837167.7/35

All: 79.515+/-0.009 χ^2/NDF : 1608328.4/68

asym_sam_2468_avg_correction_mean vs Slug, Sign Corrected



Right In: -572.342+/-517.020 χ^2/NDF : 21.9/16

Left Out: -1306.664+/-209.705 χ^2/NDF : 35.7/16

Right Out: 963.846+/-514.621 χ^2/NDF : 10.1/18

Left In: -105.089+/-206.818 χ^2/NDF : 13.8/15

Left: -697.547+/-147.253 χ^2/NDF : 66.1/32

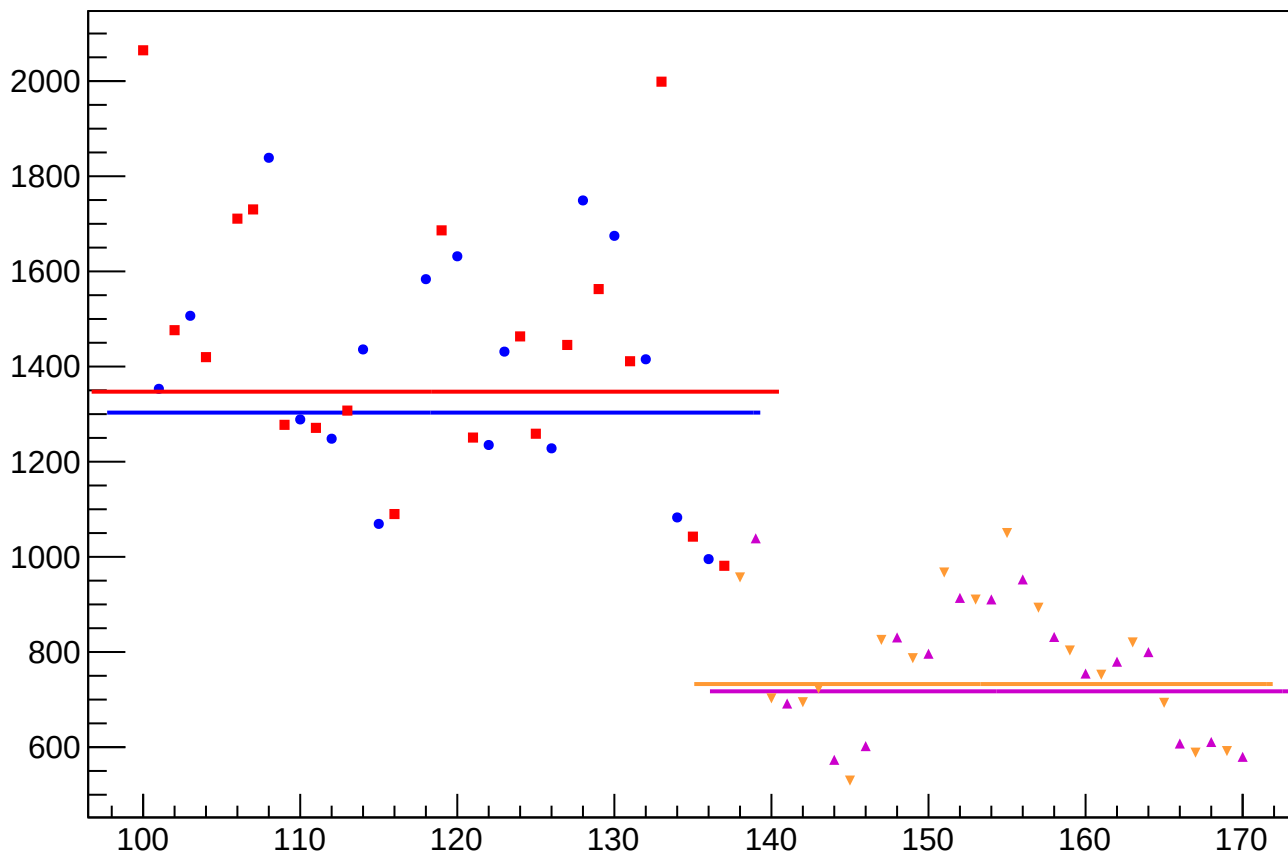
Right: 199.325+/-364.737 χ^2/NDF : 36.4/35

In: -169.543+/-192.024 χ^2/NDF : 36.3/32

Out: -983.331+/-194.201 χ^2/NDF : 62.5/35

All: -571.851+/-136.545 χ^2/NDF : 107.7/68

asym_sam_2468_avg_correction_rms vs Slug, Sign Corrected



Right In: 1303.201+/-0.366 χ^2/NDF : 451961.9/16

Left Out: 732.659+/-0.148 χ^2/NDF : 899532.0/16

Right Out: 1347.177+/-0.364 χ^2/NDF : 420774.0/18

Left In: 717.379+/-0.146 χ^2/NDF : 830296.8/15

Left: 724.913+/-0.104 χ^2/NDF : 1735211.6/32

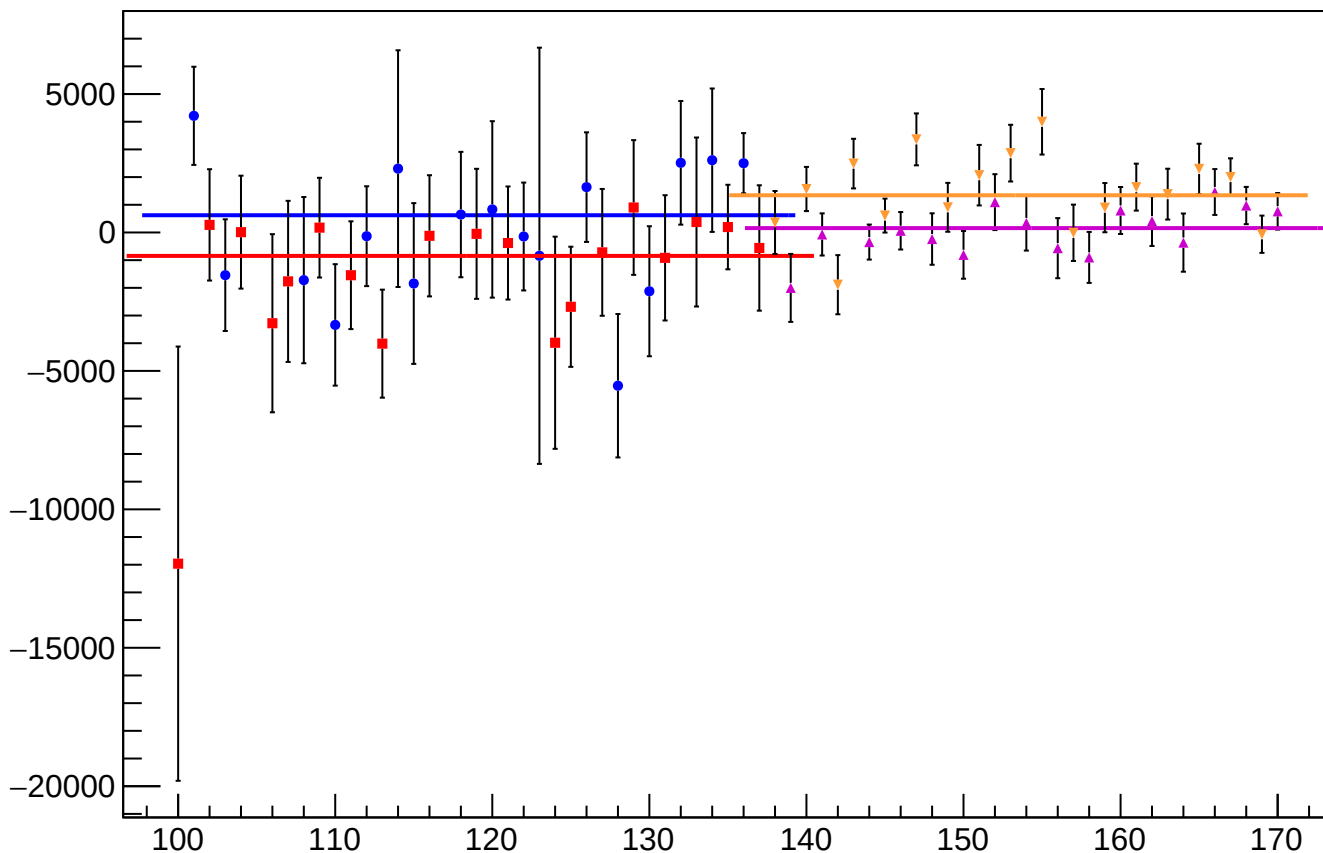
Right: 1325.291+/-0.258 χ^2/NDF : 880004.2/35

In: 798.189+/-0.136 χ^2/NDF : 3495772.8/32

Out: 820.170+/-0.137 χ^2/NDF : 3766020.1/35

All: 809.055+/-0.097 χ^2/NDF : 7274748.7/68

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 622.411+/-518.496 χ^2/NDF : 22.0/16

Left Out: 1343.798+/-210.954 χ^2/NDF :34.2/16

Right Out: -846.021+/-516.325 χ^2/NDF : 9.1/18

Left In: 157.783+/-208.107 χ^2/NDF :13.6/15

Left: 742.733+/-148.150 χ^2/NDF : 63.8/32

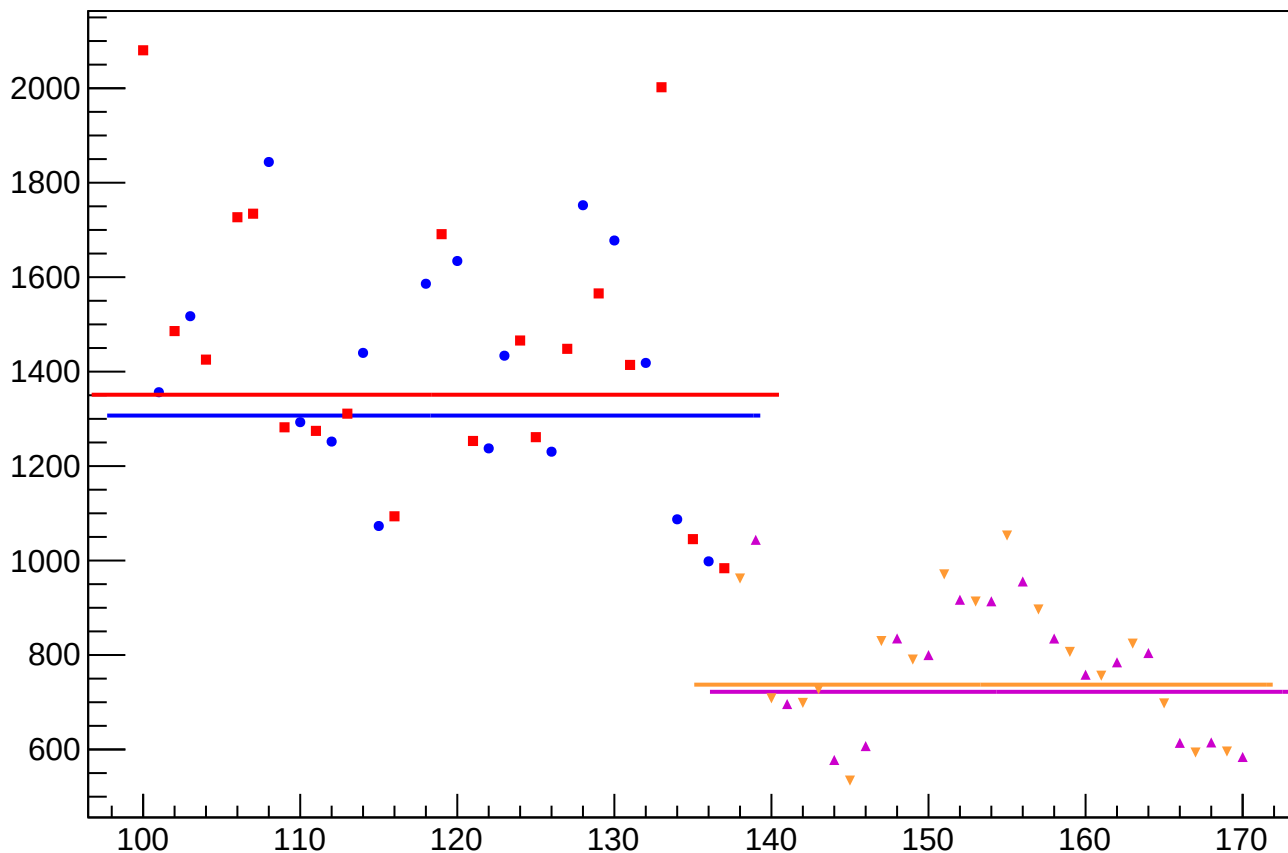
Right: -114.886+/-365.862 χ^2/NDF : 35.1/35

In: 222.248+/-193.131 χ^2/NDF :36.3/32

Out: 1030.546+/-195.283 χ^2/NDF :58.7/35

All: 621.918+/-137.319 χ^2/NDF : 103.6/68

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1306.980+/-0.367 χ^2/NDF : 451191.7/16

Left Out: 737.241+/-0.149 χ^2/NDF : 885158.4/16

Right Out: 1351.096+/-0.365 χ^2/NDF : 421804.6/18

Left In: 722.072+/-0.147 χ^2/NDF : 816279.6/15

Left: 729.554+/-0.105 χ^2/NDF : 1706678.9/32

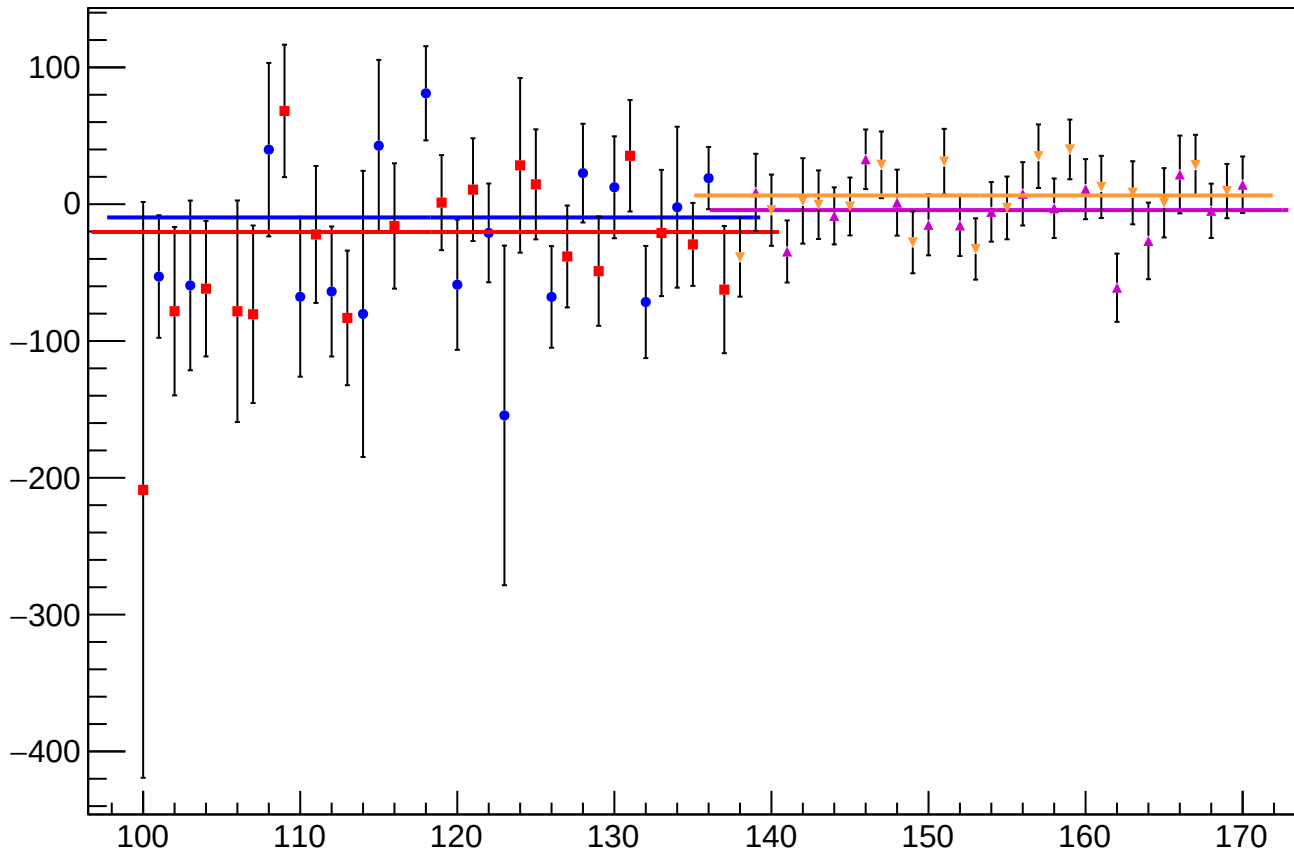
Right: 1329.131+/-0.259 χ^2/NDF : 880266.0/35

In: 803.225+/-0.137 χ^2/NDF : 3459503.9/32

Out: 825.053+/-0.138 χ^2/NDF : 3729506.5/35

All: 814.018+/-0.097 χ^2/NDF : 7201642.6/68

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -9.669 ± 10.408 χ^2/NDF : 22.6/16

Left Out: 6.386 ± 5.706 χ^2/NDF : 15.4/16

Right Out: -20.335 ± 10.444 χ^2/NDF : 14.7/18

Left In: -4.313 ± 5.725 χ^2/NDF : 13.7/15

Left: 1.055 ± 4.041 χ^2/NDF : 30.8/32

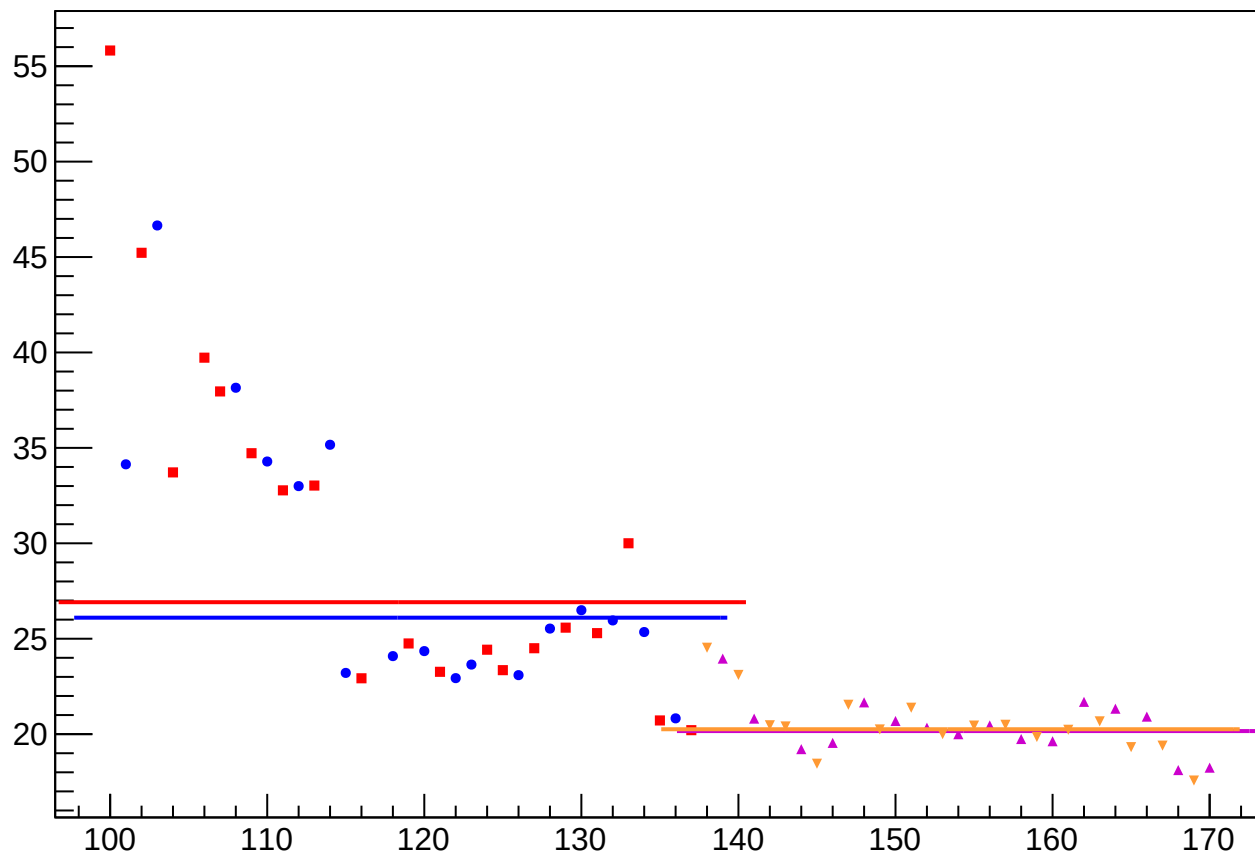
Right: -14.983 ± 7.372 χ^2/NDF : 37.7/35

In: -5.557 ± 5.016 χ^2/NDF : 36.5/32

Out: 0.244 ± 5.007 χ^2/NDF : 35.0/35

All: -2.651 ± 3.544 χ^2/NDF : 72.2/68

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.103 ± 0.007 χ^2/NDF : 604038.5/16

Left Out: 20.257 ± 0.004 χ^2/NDF : 137090.2/16

Right Out: 26.914 ± 0.007 χ^2/NDF : 678970.2/18

Left In: 20.161 ± 0.004 χ^2/NDF : 105996.4/15

Left: 20.209 ± 0.003 χ^2/NDF : 243367.6/32

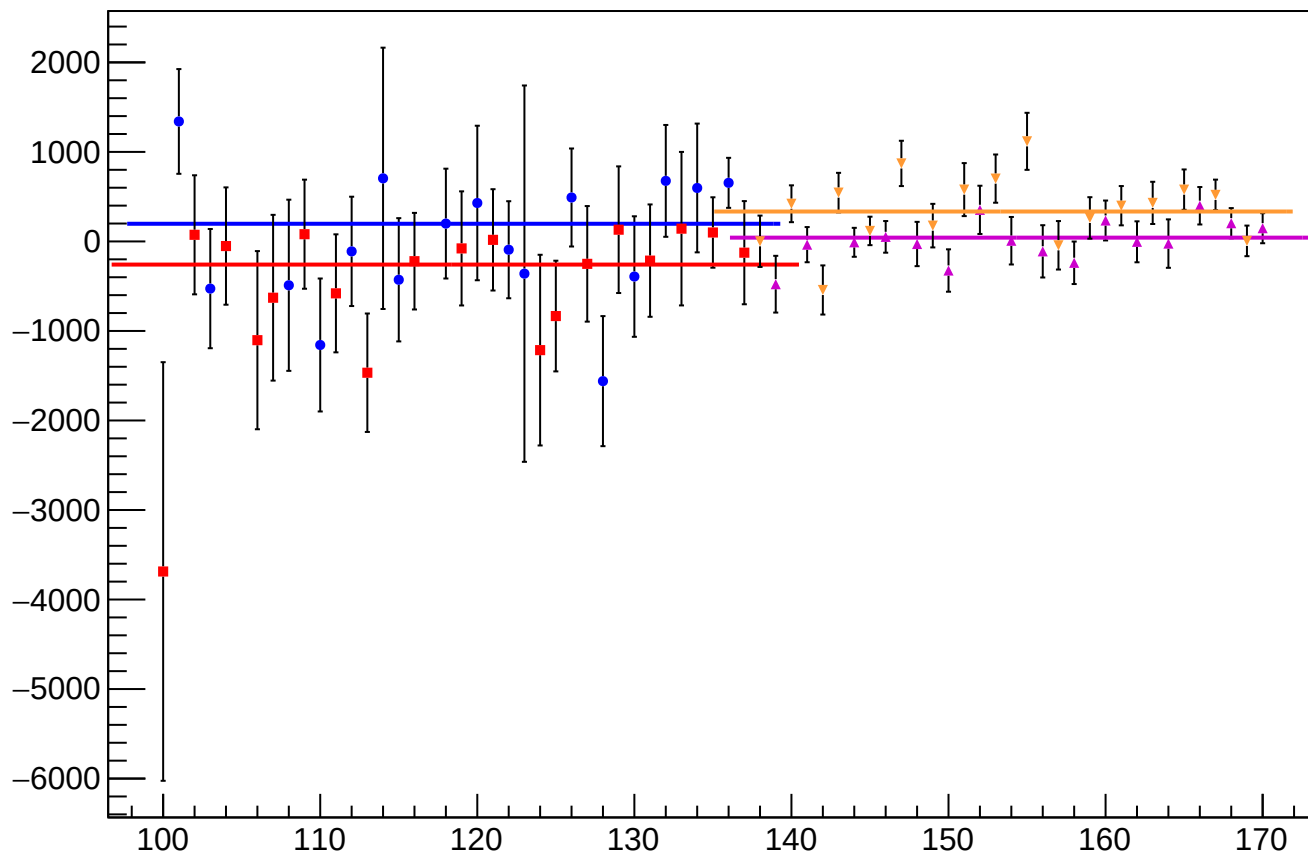
Right: 26.507 ± 0.005 χ^2/NDF : 1289062.8/35

In: 21.541 ± 0.004 χ^2/NDF : 1210451.5/32

Out: 21.787 ± 0.004 χ^2/NDF : 1441911.5/35

All: 21.664 ± 0.003 χ^2/NDF : 2654766.9/68

asym_sam_1357_2468_dd_correction_mean vs Slug, Sign Corrected



Right In: 197.327 $\pm$ 147.883 χ^2 /NDF: 21.0/16

Left Out: 334.180 $\pm$ 54.553 χ^2 /NDF:36.4/16

Right Out: -258.537 $\pm$ 149.867 χ^2 /NDF: 10.7/18

Left In: 42.265 $\pm$ 53.910 χ^2 /NDF:13.5/15

Left: 186.492 $\pm$ 38.345 χ^2 /NDF: 64.4/32

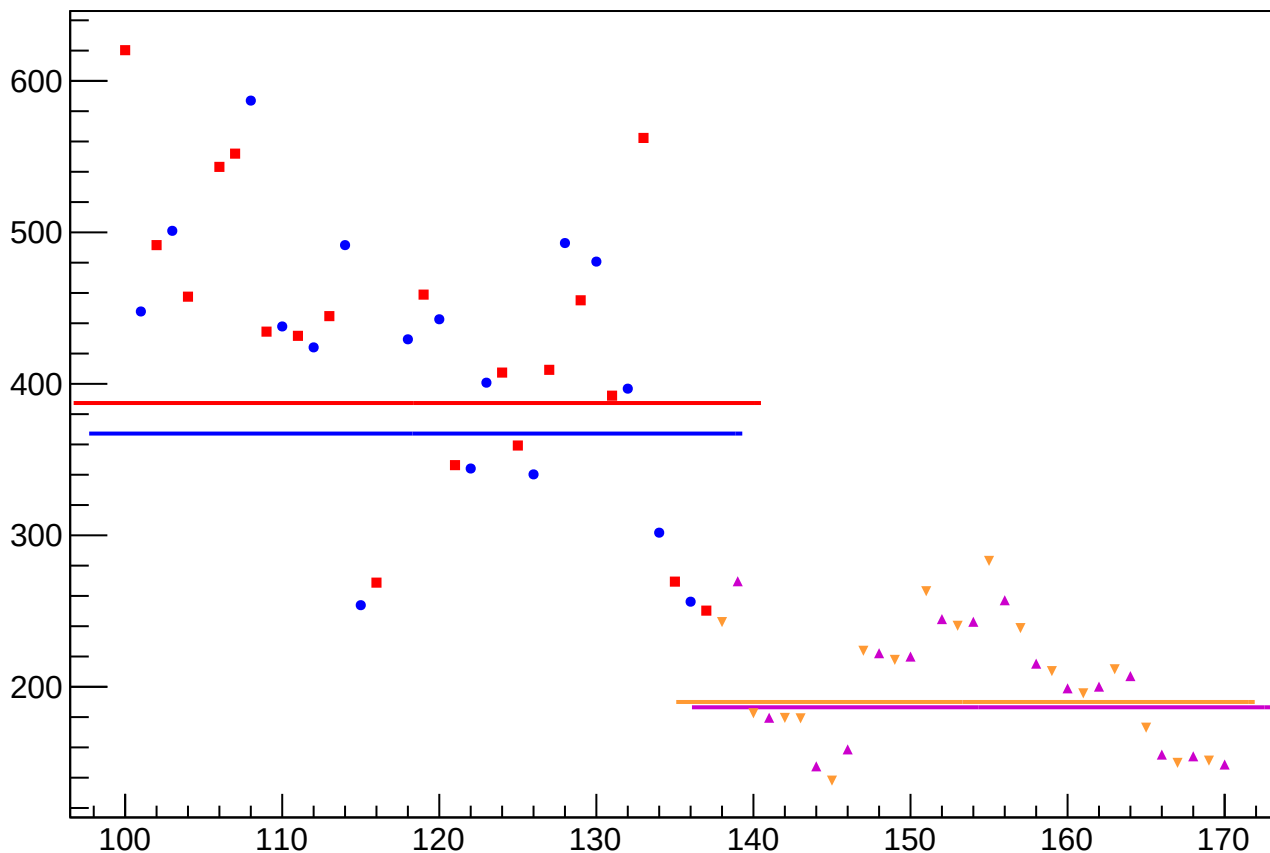
Right: -27.568 $\pm$ 105.264 χ^2 /NDF: 36.3/35

In: 60.454 $\pm$ 50.649 χ^2 /NDF:35.4/32

Out: 264.833 $\pm$ 51.262 χ^2 /NDF:60.8/35

All: 161.415 $\pm$ 36.029 χ^2 /NDF: 104.3/68

asym_sam_1357_2468_dd_correction_rms vs Slug, Sign Corrected



Right In: 367.180+/-0.105 χ^2/NDF : 827148.2/16

Left Out: 189.983+/-0.039 χ^2/NDF :1039490.7/16

Right Out: 387.344+/-0.106 χ^2/NDF : 774562.4/18

Left In: 186.474+/-0.038 χ^2/NDF :962528.6/15

Left: 188.208+/-0.027 χ^2/NDF : 2006206.1/32

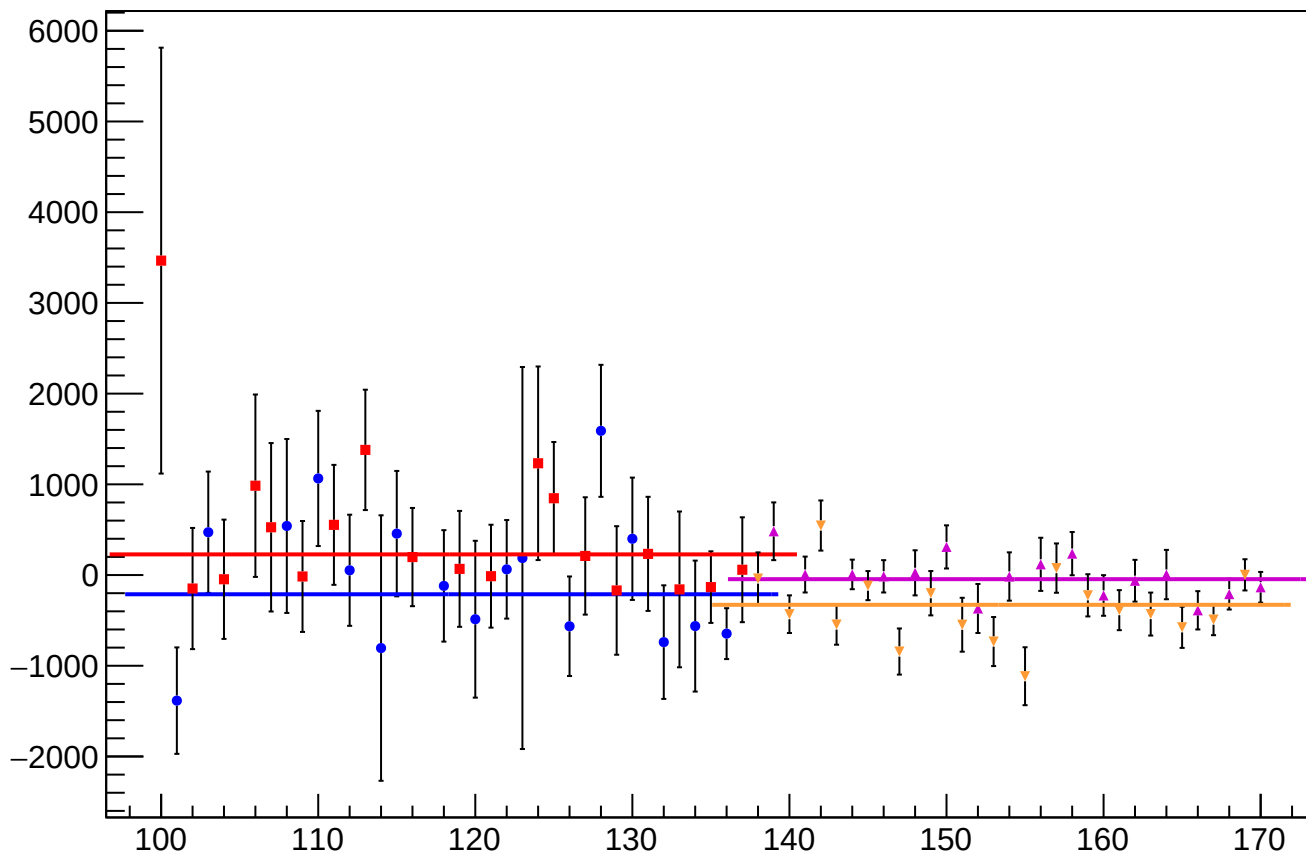
Right: 377.128+/-0.074 χ^2/NDF : 1620053.1/35

In: 207.672+/-0.036 χ^2/NDF :4425698.9/32

Out: 213.074+/-0.036 χ^2/NDF :4876718.7/35

All: 210.340+/-0.025 χ^2/NDF : 9313659.4/68

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Left: -185.175+/-38.588 χ^2/NDF : 62.0/32

Right: 5.040+/-105.575 χ^2/NDF : 35.4/35

In: -65.094+/-50.953 χ^2/NDF :35.1/32

Out: -262.770+/-51.562 χ^2/NDF :57.8/35

All: -162.759+/-36.243 χ^2/NDF : 100.3/68

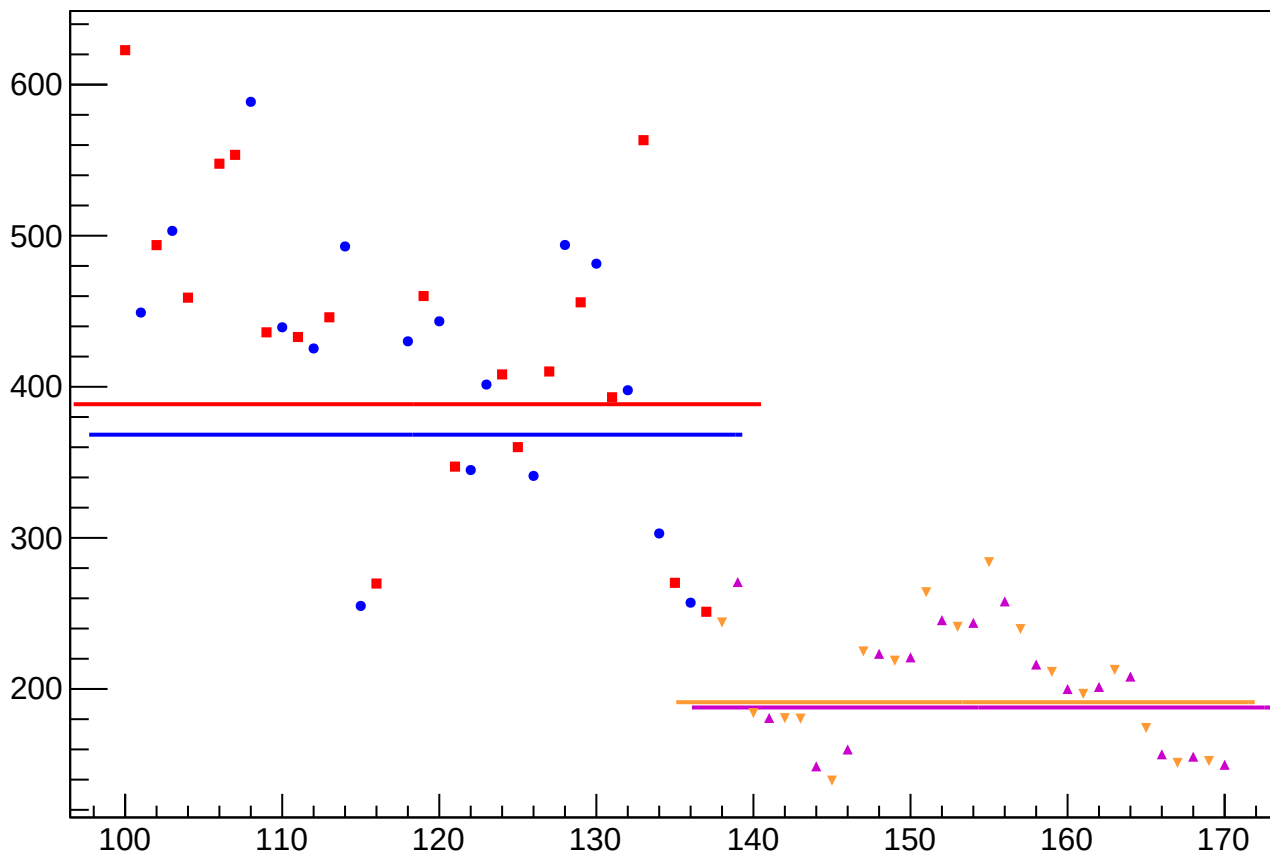
Right In: -211.859+/-148.316 χ^2/NDF : 21.0/16

Left Out: -328.193+/-54.892 χ^2/NDF :35.7/16

Right Out: 227.831+/-150.317 χ^2/NDF : 10.1/18

Left In: -45.454+/-54.256 χ^2/NDF :13.0/15

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 368.302+/-0.105 χ^2/NDF : 824619.2/16

Left Out: 191.242+/-0.039 χ^2/NDF :1021953.9/16

Right Out: 388.472+/-0.106 χ^2/NDF : 774717.2/18

Left In: 187.744+/-0.038 χ^2/NDF :945499.8/15

Left: 189.473+/-0.027 χ^2/NDF : 1971560.2/32

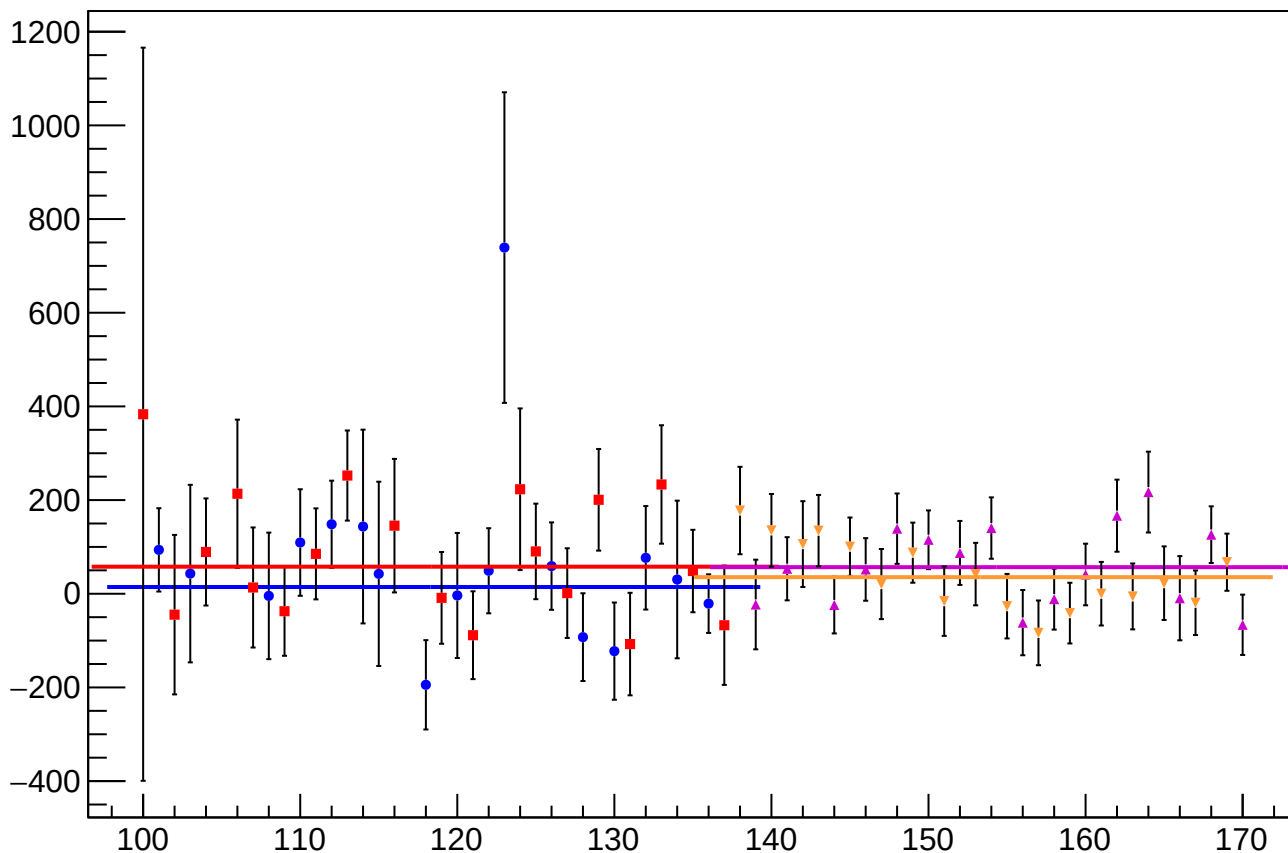
Right: 378.252+/-0.075 χ^2/NDF : 1617584.5/35

In: 209.055+/-0.036 χ^2/NDF :4384327.7/32

Out: 214.448+/-0.036 χ^2/NDF :4834754.6/35

All: 211.719+/-0.026 χ^2/NDF : 9230155.4/68

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 14.385 $\pm$ 26.334 χ^2 /NDF: 17.7/16

Left Out: 35.448 $\pm$ 17.211 χ^2 /NDF:15.3/16

Right Out: 57.795 $\pm$ 26.121 χ^2 /NDF: 18.4/18

Left In: 56.765 $\pm$ 17.361 χ^2 /NDF:21.4/15

Left: 46.014 $\pm$ 12.223 χ^2 /NDF: 37.4/32

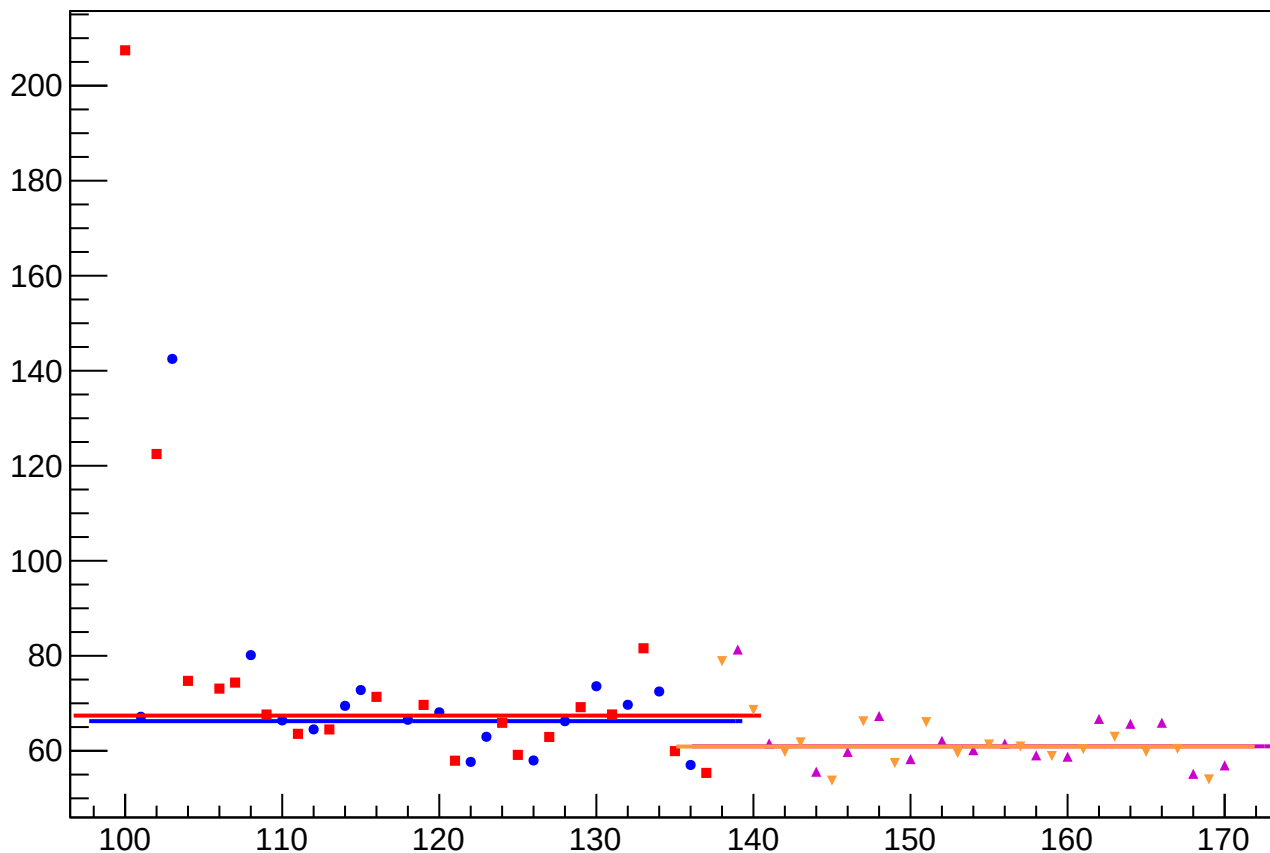
Right: 36.266 $\pm$ 18.545 χ^2 /NDF: 37.5/35

In: 43.926 $\pm$ 14.494 χ^2 /NDF:40.9/32

Out: 42.213 $\pm$ 14.372 χ^2 /NDF:34.2/35

All: 43.062 $\pm$ 10.205 χ^2 /NDF: 75.1/68

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 66.247 $\pm$ 0.019 χ^2 /NDF: 440944.2/16

Left Out: 60.902 $\pm$ 0.012 χ^2 /NDF:177282.4/16

Right Out: 67.415 $\pm$ 0.018 χ^2 /NDF: 393608.5/18

Left In: 60.948 $\pm$ 0.012 χ^2 /NDF:179388.7/15

Left: 60.925 $\pm$ 0.009 χ^2 /NDF: 356678.3/32

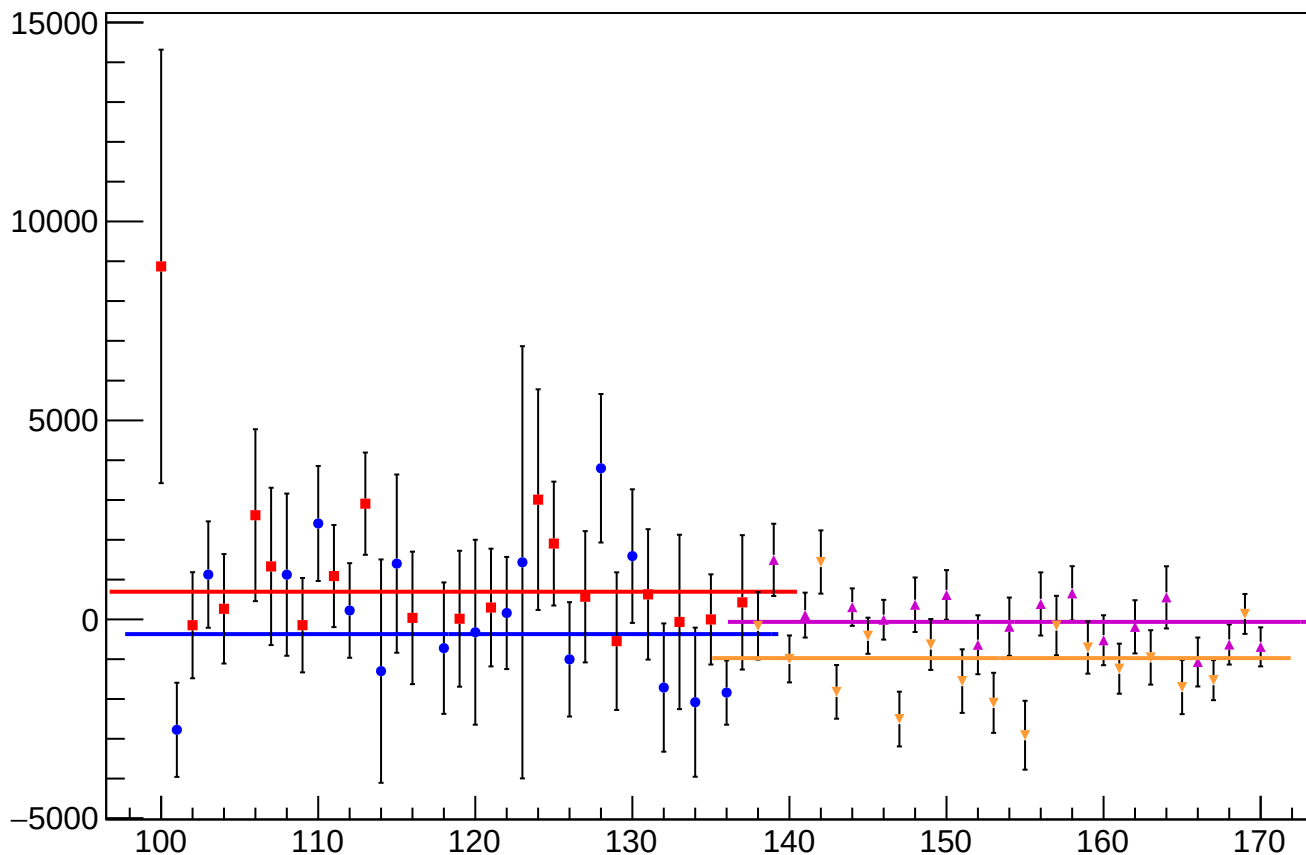
Right: 66.836 $\pm$ 0.013 χ^2 /NDF: 836536.0/35

In: 62.554 $\pm$ 0.010 χ^2 /NDF:676778.7/32

Out: 62.873 $\pm$ 0.010 χ^2 /NDF:657607.3/35

All: 62.715 $\pm$ 0.007 χ^2 /NDF: 1334876.8/68

asym_sam_12345678_avg_correction_mean vs Slug, Sign Corrected



Right In: -369.546 ± 366.432 $\chi^2/\text{NDF}: 22.3/16$

Left Out: -972.828 ± 156.229 $\chi^2/\text{NDF}: 35.1/16$

Right Out: 695.425 ± 361.887 $\chi^2/\text{NDF}: 9.9/18$

Left In: -62.535 ± 154.047 $\chi^2/\text{NDF}: 14.1/15$

Left: -511.279 ± 109.691 $\chi^2/\text{NDF}: 66.4/32$

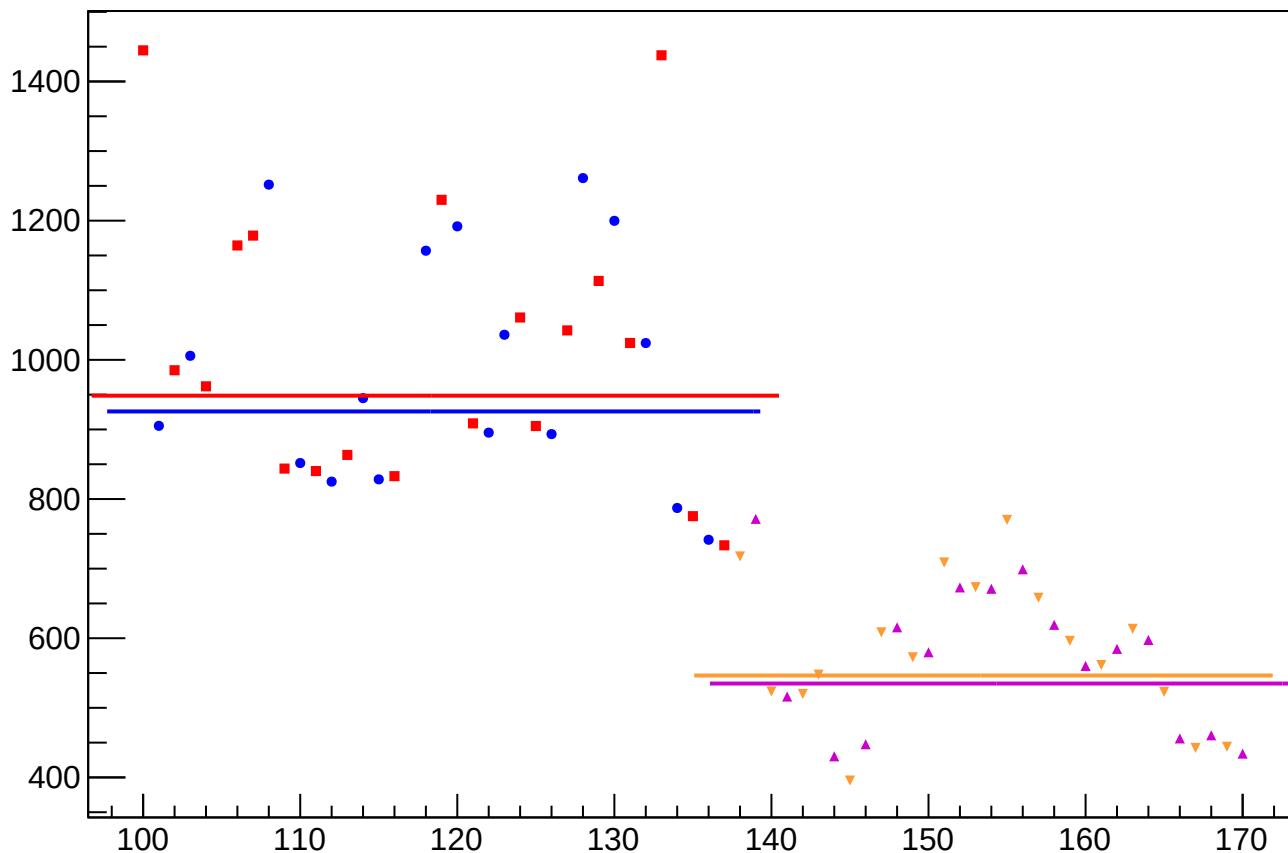
Right: 169.586 ± 257.485 $\chi^2/\text{NDF}: 36.5/35$

In: -108.645 ± 142.008 $\chi^2/\text{NDF}: 37.0/32$

Out: -710.756 ± 143.434 $\chi^2/\text{NDF}: 62.9/35$

All: -406.693 ± 100.915 $\chi^2/\text{NDF}: 108.8/68$

asym_sam_12345678_avg_correction_rms vs Slug, Sign Corrected



Right In: 925.885+/-0.259 χ^2/NDF : 391084.5/16

Left Out: 546.461+/-0.110 χ^2/NDF : 848192.0/16

Right Out: 948.553+/-0.256 χ^2/NDF : 381931.9/18

Left In: 534.911+/-0.109 χ^2/NDF : 778633.0/15

Left: 540.605+/-0.078 χ^2/NDF : 1632367.7/32

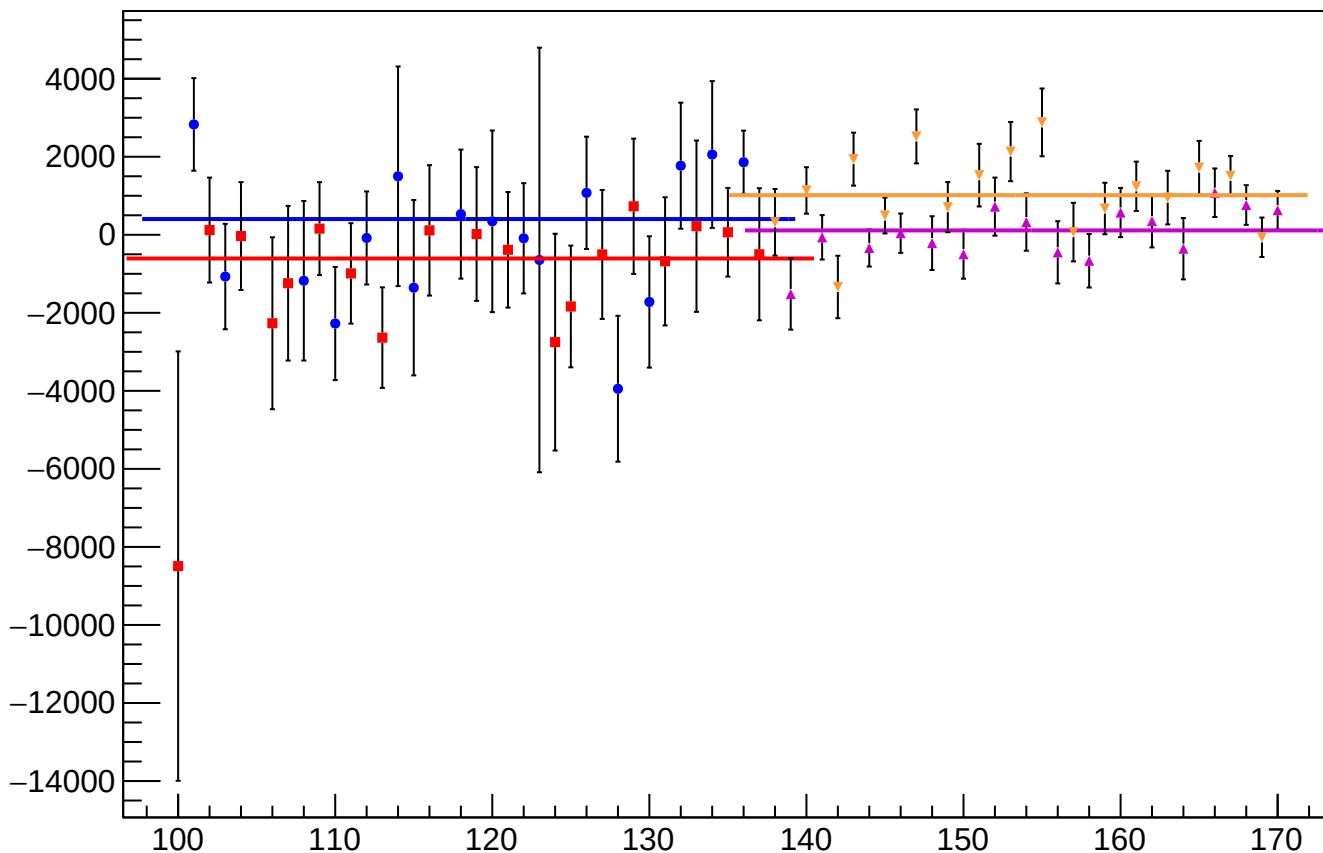
Right: 937.360+/-0.182 χ^2/NDF : 776890.8/35

In: 593.631+/-0.100 χ^2/NDF : 3104621.0/32

Out: 609.627+/-0.101 χ^2/NDF : 3311316.5/35

All: 601.549+/-0.071 χ^2/NDF : 6428498.7/68

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 403.591+/-367.686 χ^2/NDF : 22.4/16

Left Out: 1015.851+/-157.293 χ^2/NDF :33.2/16

Right Out: -607.276+/-363.327 χ^2/NDF : 8.8/18

Left In: 112.245+/-155.143 χ^2/NDF :14.1/15

Left: 557.833+/-110.455 χ^2/NDF : 64.0/32

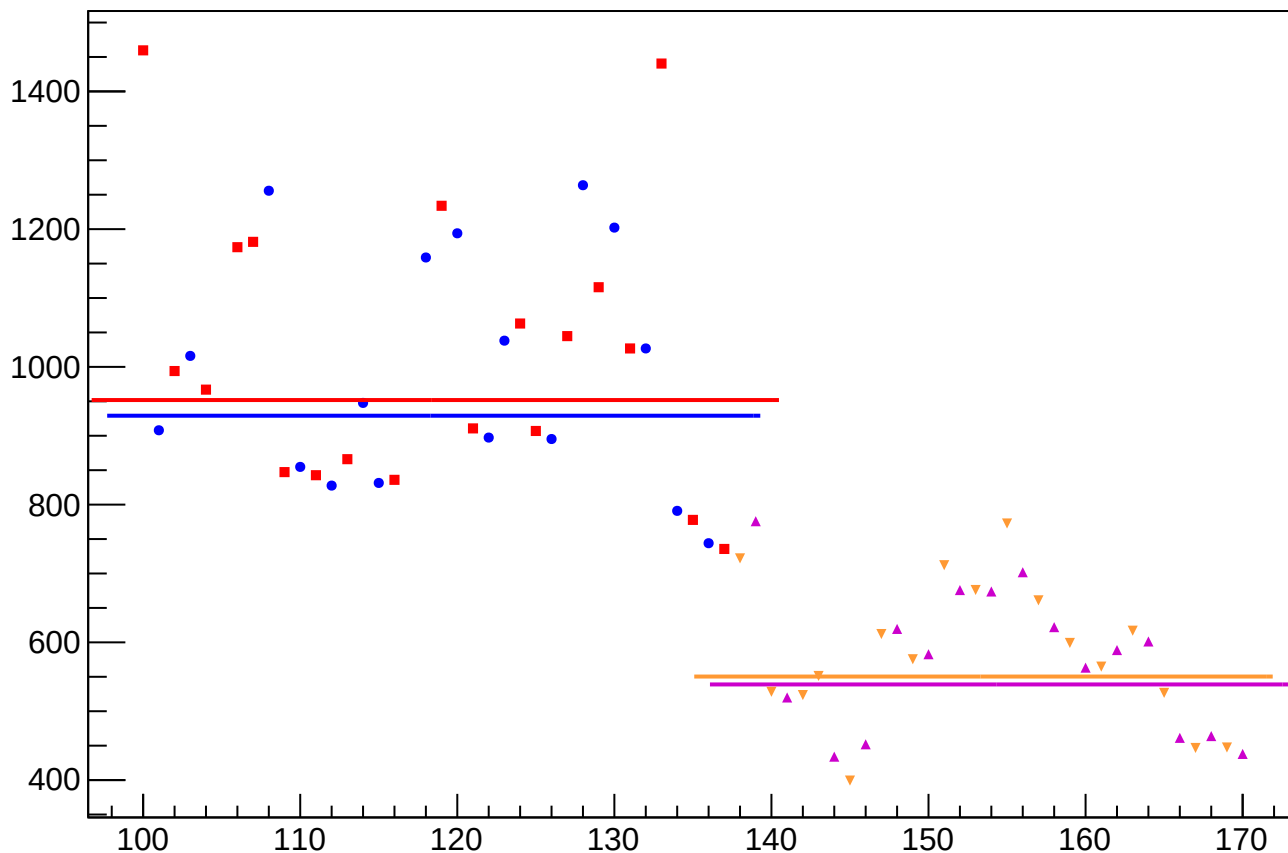
Right: -107.869+/-258.438 χ^2/NDF : 35.1/35

In: 156.277+/-142.940 χ^2/NDF :37.0/32

Out: 759.657+/-144.346 χ^2/NDF :58.9/35

All: 455.013+/-101.567 χ^2/NDF : 104.7/68

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 929.096 $\pm$ 0.260 χ^2 /NDF: 390292.1/16

Left Out: 550.358 $\pm$ 0.111 χ^2 /NDF: 832367.7/16

Right Out: 951.847 $\pm$ 0.257 χ^2 /NDF: 382219.3/18

Left In: 538.896 $\pm$ 0.110 χ^2 /NDF: 763703.1/15

Left: 544.548 $\pm$ 0.078 χ^2 /NDF: 1601454.5/32

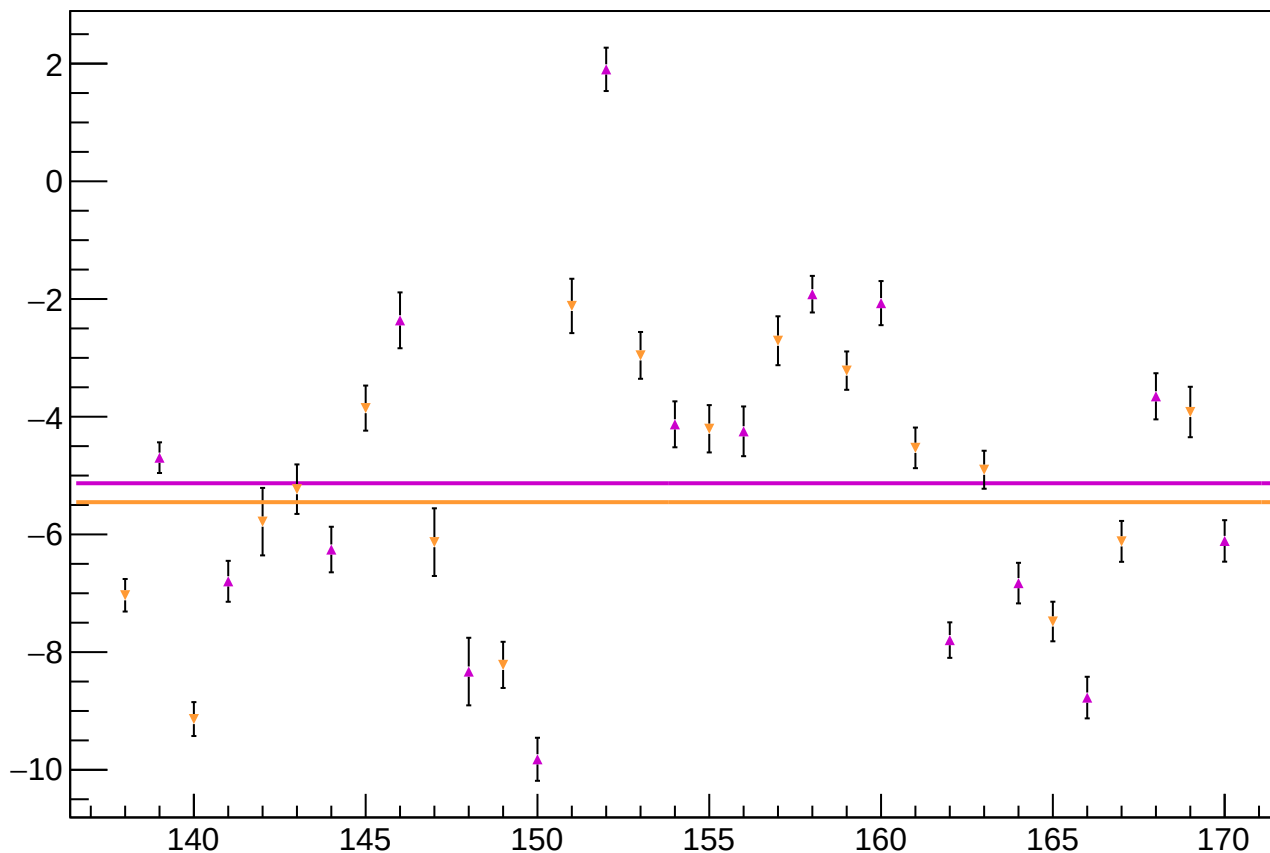
Right: 940.607 $\pm$ 0.183 χ^2 /NDF: 776385.5/35

In: 597.867 $\pm$ 0.101 χ^2 /NDF: 3066018.4/32

Out: 613.729 $\pm$ 0.102 χ^2 /NDF: 3271303.1/35

All: 605.720 $\pm$ 0.072 χ^2 /NDF: 6349515.1/68

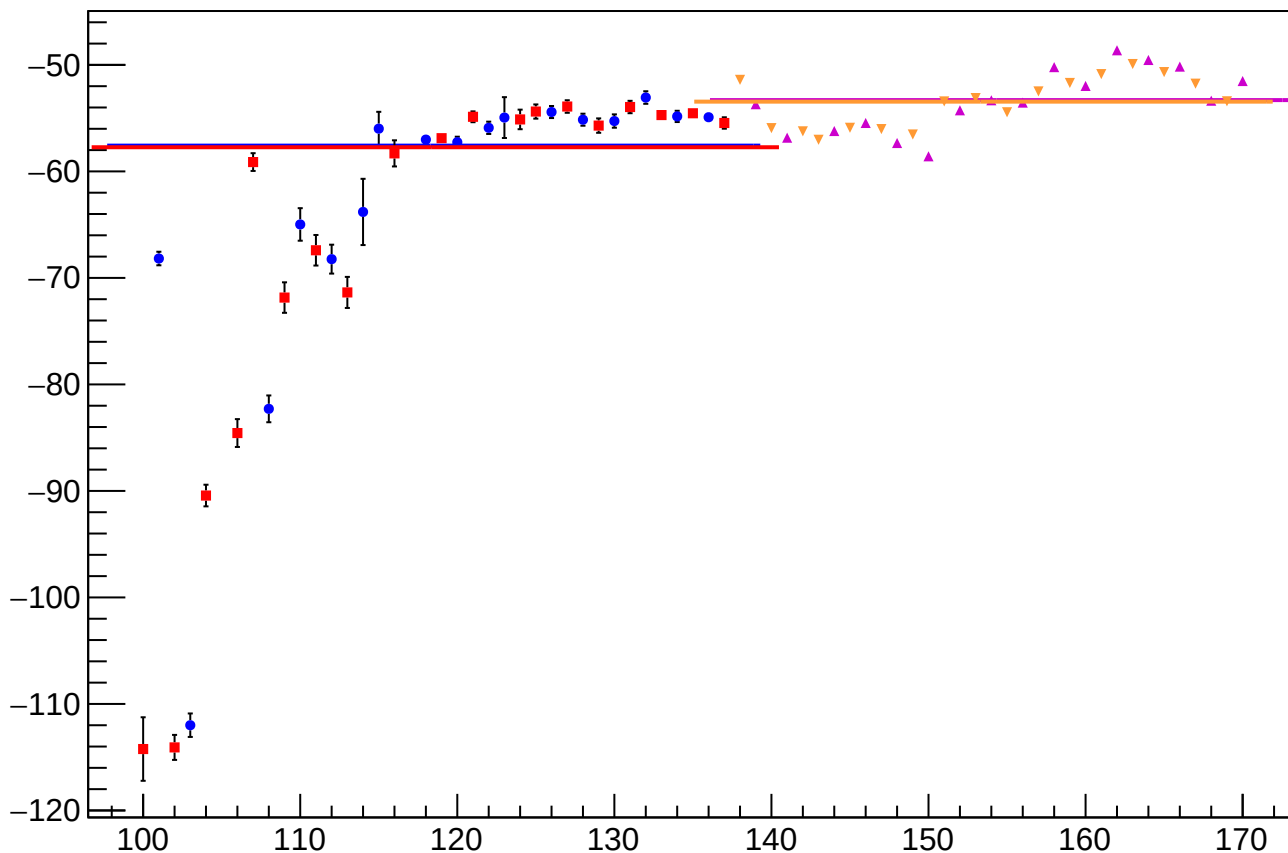
reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -5.452+/-0.090 χ^2/NDF :520.0/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -5.131+/-0.090 χ^2/NDF :1043.0/15

Left: -5.291+/-0.064 χ^2/NDF : 1569.4/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -5.131+/-0.090 χ^2/NDF :1043.0/15
 Out: -5.452+/-0.090 χ^2/NDF :520.0/16
 All: -5.291+/-0.064 χ^2/NDF : 1569.4/32

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -57.581 ± 0.143 χ^2/NDF : 3455.5/16

Left Out: -53.450 ± 0.067 χ^2/NDF : 1168.2/16

Right Out: -57.732 ± 0.143 χ^2/NDF : 4698.5/18

Left In: -53.306 ± 0.069 χ^2/NDF : 1930.0/15

Left: -53.380 ± 0.048 χ^2/NDF : 3100.4/32

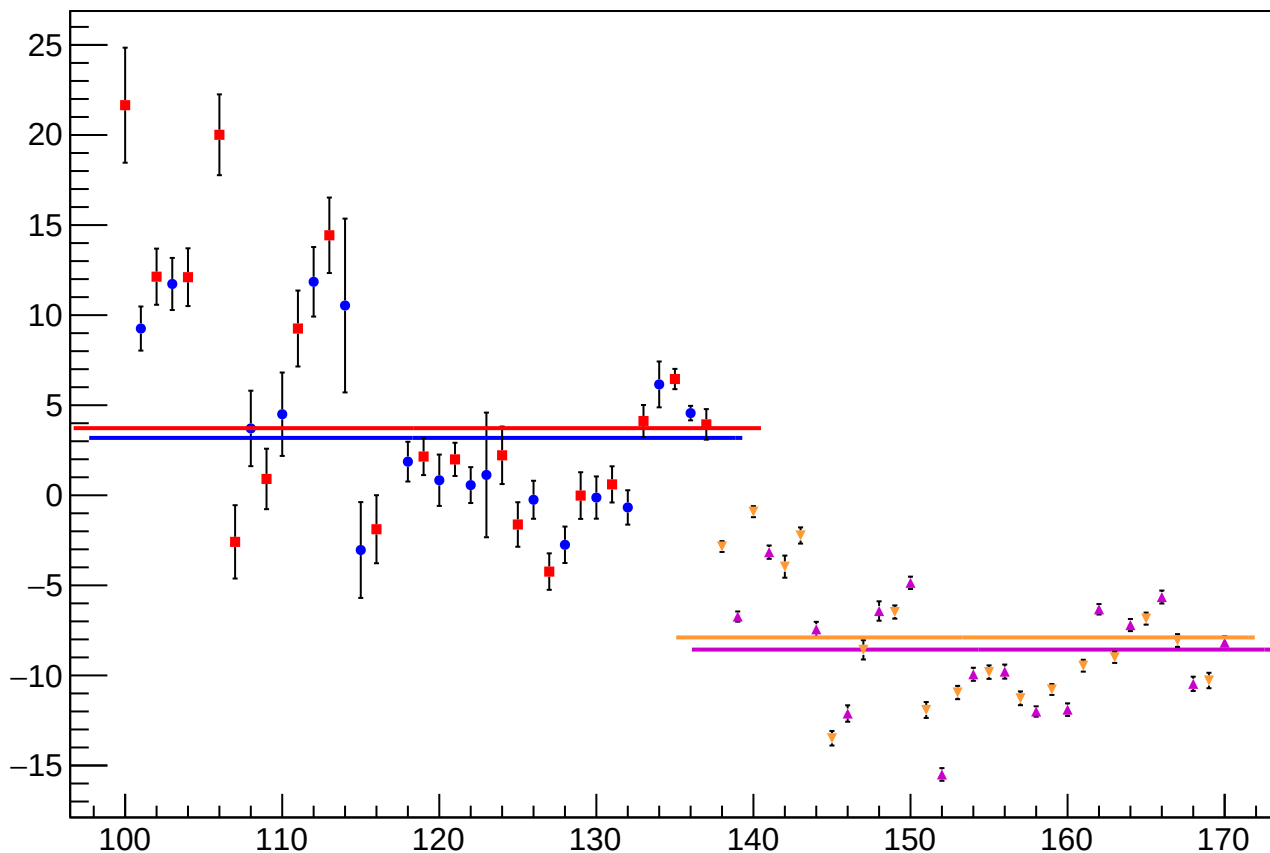
Right: -57.657 ± 0.101 χ^2/NDF : 8154.5/35

In: -54.113 ± 0.062 χ^2/NDF : 6110.0/32

Out: -54.229 ± 0.061 χ^2/NDF : 6600.6/35

All: -54.172 ± 0.044 χ^2/NDF : 12712.4/68

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 3.185 $\pm$ 0.259 χ^2 /NDF: 185.8/16

Left Out: -7.891 $\pm$ 0.089 χ^2 /NDF:1631.8/16

Right Out: 3.726 $\pm$ 0.268 χ^2 /NDF: 324.1/18

Left In: -8.566 $\pm$ 0.088 χ^2 /NDF:1268.6/15

Left: -8.232 $\pm$ 0.063 χ^2 /NDF: 2929.3/32

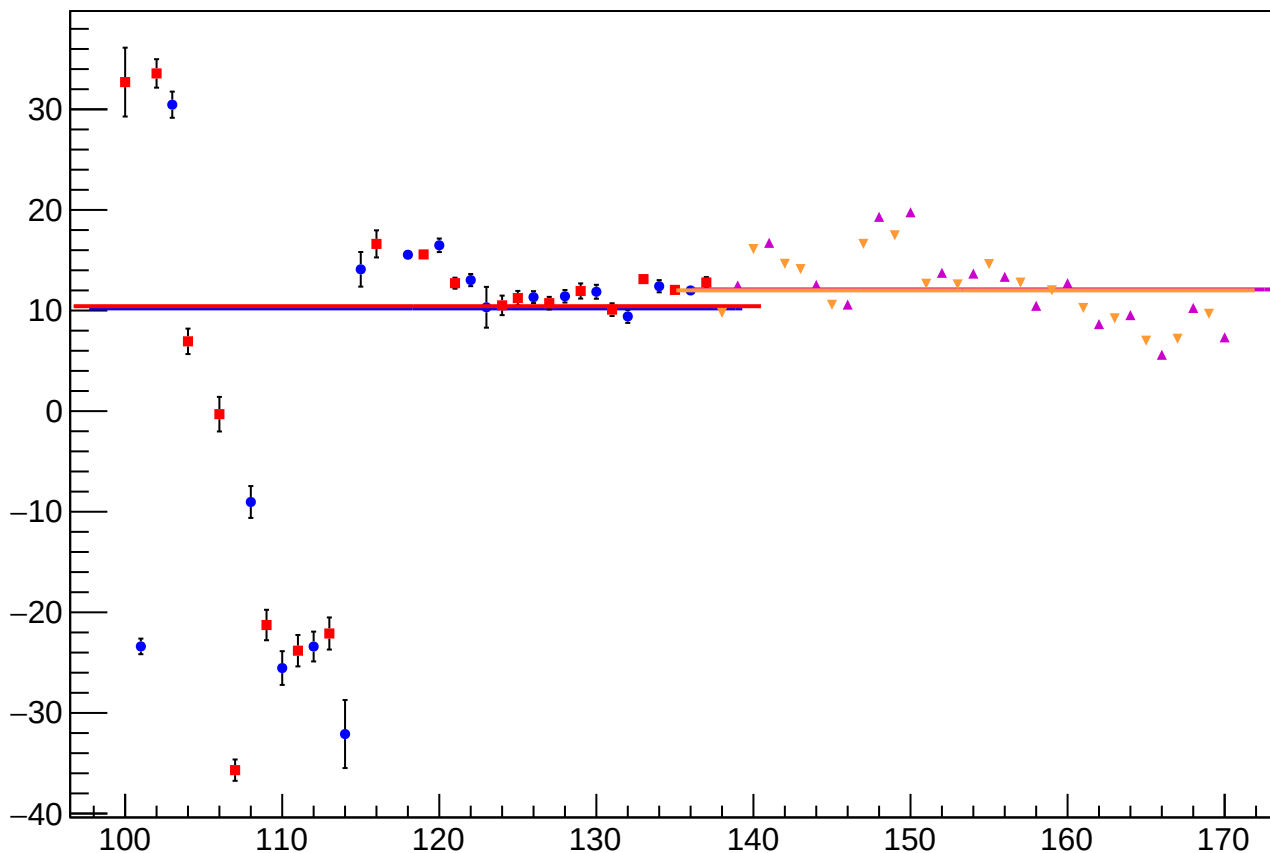
Right: 3.447 $\pm$ 0.186 χ^2 /NDF: 512.0/35

In: -7.339 $\pm$ 0.084 χ^2 /NDF:3298.0/32

Out: -6.728 $\pm$ 0.085 χ^2 /NDF:3652.7/35

All: -7.037 $\pm$ 0.060 χ^2 /NDF: 6977.0/68

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.215 $\pm$ 0.158 χ^2 /NDF: 3692.6/16

Left Out: 12.006 $\pm$ 0.077 χ^2 /NDF:1558.1/16

Right Out: 10.430 $\pm$ 0.160 χ^2 /NDF: 3826.9/18

Left In: 12.097 $\pm$ 0.078 χ^2 /NDF:2336.7/15

Left: 12.051 $\pm$ 0.054 χ^2 /NDF: 3895.5/32

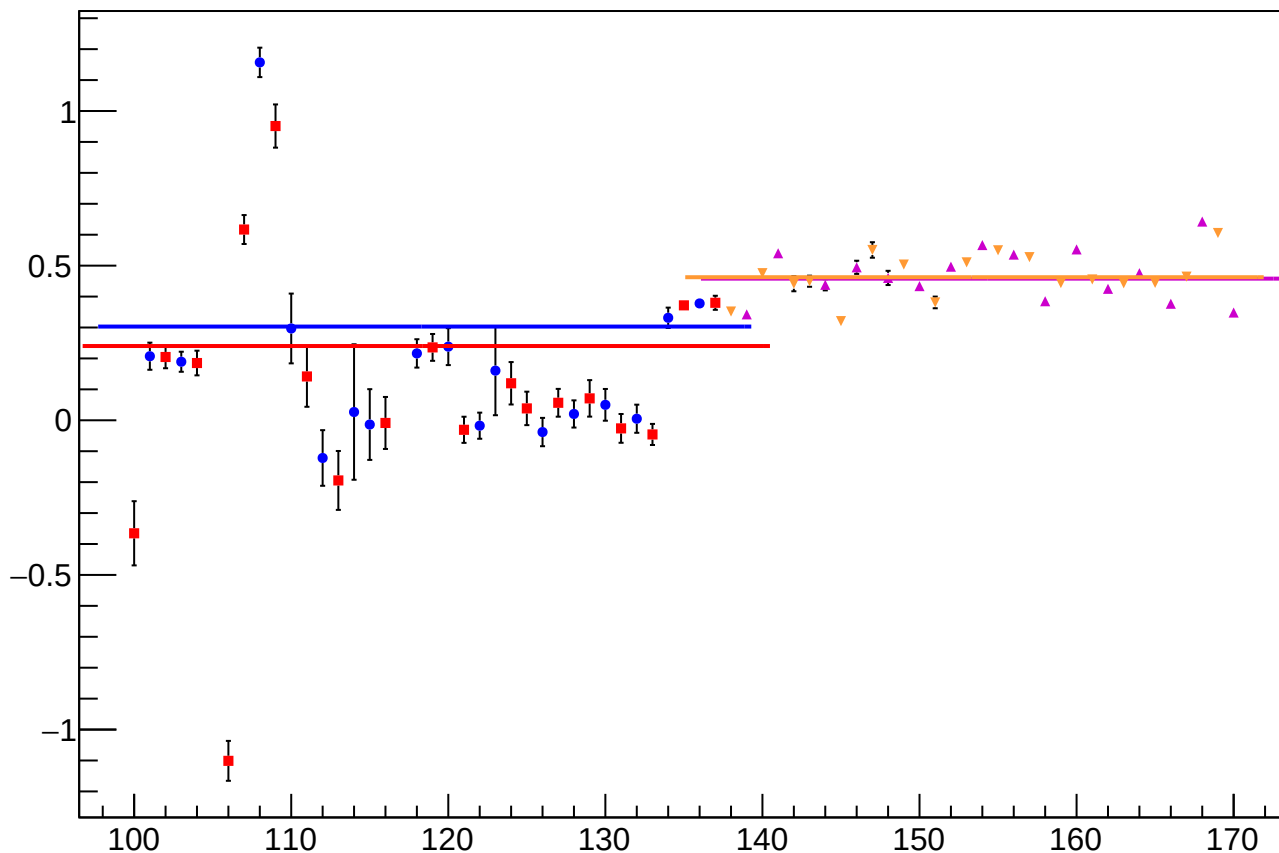
Right: 10.321 $\pm$ 0.112 χ^2 /NDF: 7520.5/35

In: 11.732 $\pm$ 0.070 χ^2 /NDF:6143.5/32

Out: 11.712 $\pm$ 0.069 χ^2 /NDF:5464.0/35

All: 11.722 $\pm$ 0.049 χ^2 /NDF: 11607.5/68

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.303 $\pm$ 0.008 χ^2 /NDF: 646.3/16

Left Out: 0.463 $\pm$ 0.003 χ^2 /NDF:385.6/16

Right Out: 0.240 $\pm$ 0.009 χ^2 /NDF: 984.4/18

Left In: 0.458 $\pm$ 0.003 χ^2 /NDF:655.0/15

Left: 0.460 $\pm$ 0.002 χ^2 /NDF: 1041.4/32

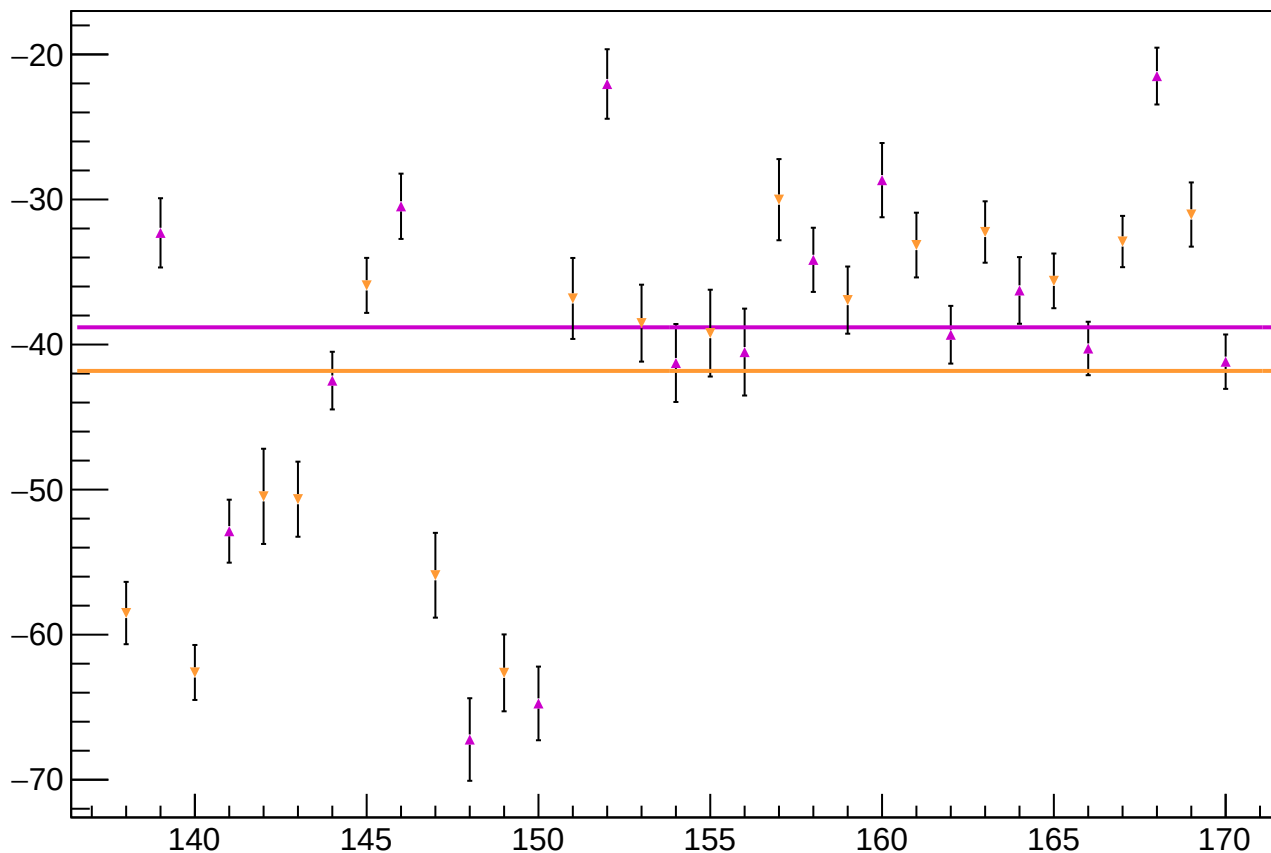
Right: 0.273 $\pm$ 0.006 χ^2 /NDF: 1658.9/35

In: 0.435 $\pm$ 0.003 χ^2 /NDF:1605.0/32

Out: 0.431 $\pm$ 0.003 χ^2 /NDF:1954.6/35

All: 0.433 $\pm$ 0.002 χ^2 /NDF: 3560.5/68

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: -41.818 $\pm$ 0.559 χ^2 /NDF:417.2/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: -38.812 $\pm$ 0.561 χ^2 /NDF:422.5/15

Left: -40.320 $\pm$ 0.396 χ^2 /NDF: 854.1/32

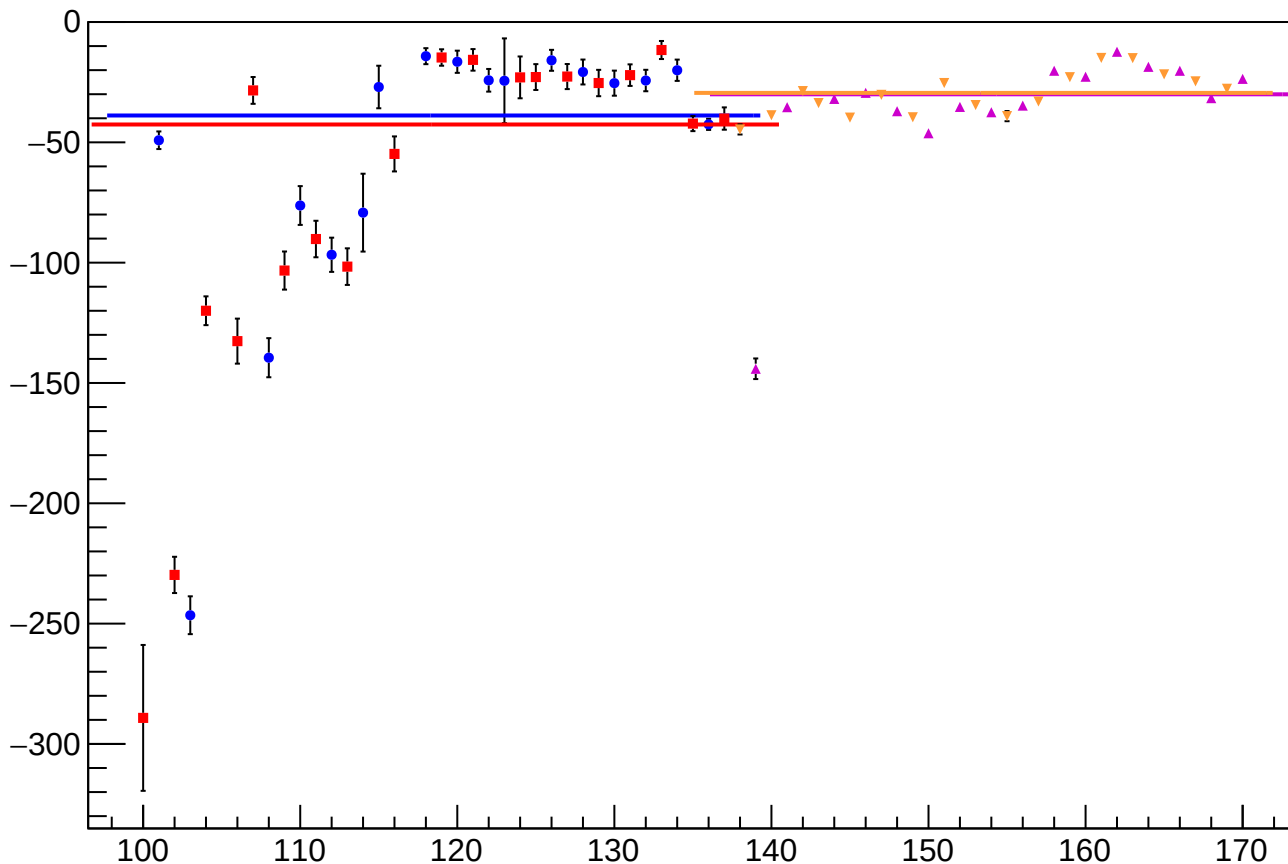
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: -38.812 $\pm$ 0.561 χ^2 /NDF:422.5/15

Out: -41.818 $\pm$ 0.559 χ^2 /NDF:417.2/16

All: -40.320 $\pm$ 0.396 χ^2 /NDF: 854.1/32

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -38.844 ± 1.148 $\chi^2/\text{NDF}: 1121.9/16$

Left Out: -29.453 ± 0.406 $\chi^2/\text{NDF}: 431.2/16$

Right Out: -42.586 ± 1.210 $\chi^2/\text{NDF}: 1345.7/18$

Left In: -30.043 ± 0.412 $\chi^2/\text{NDF}: 1145.4/15$

Left: -29.744 ± 0.289 $\chi^2/\text{NDF}: 1577.6/32$

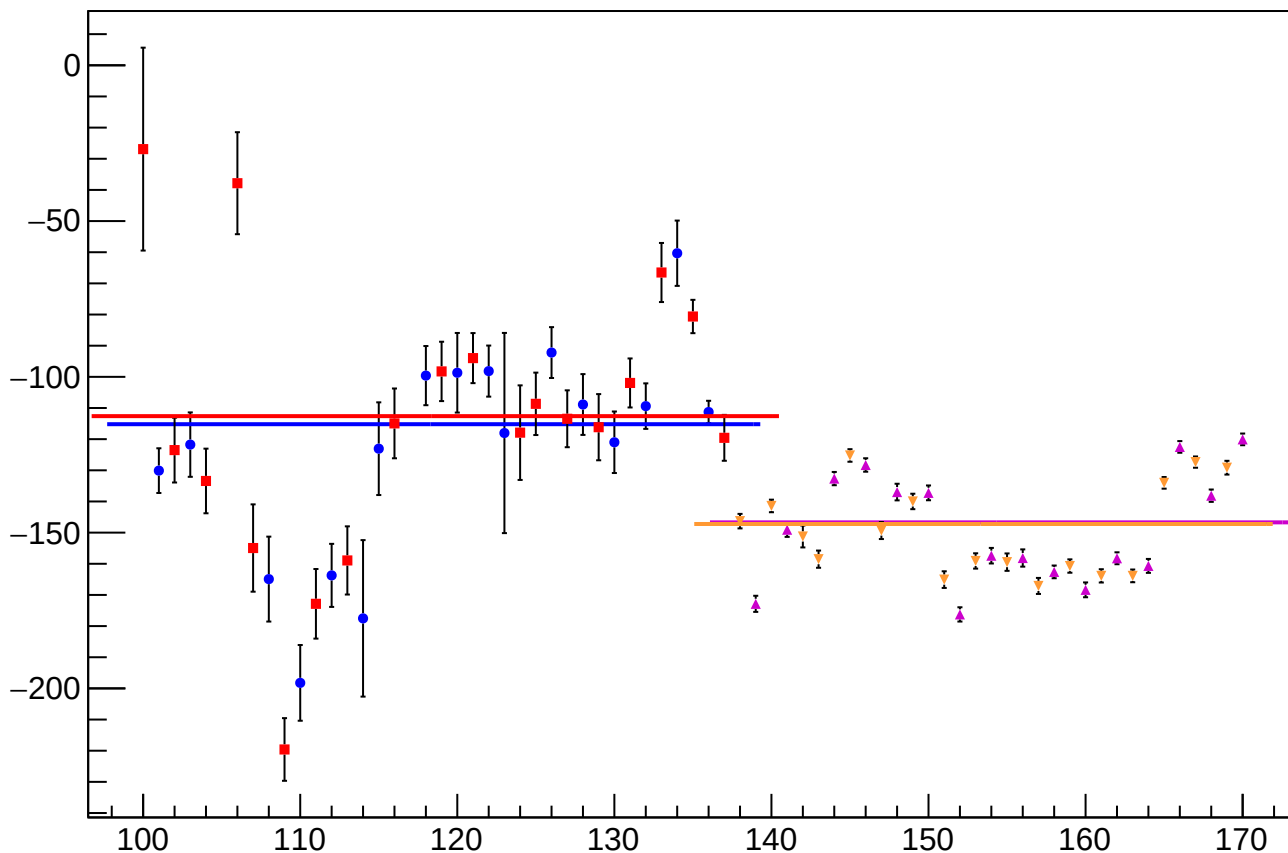
Right: -40.617 ± 0.833 $\chi^2/\text{NDF}: 2472.6/35$

In: -31.048 ± 0.388 $\chi^2/\text{NDF}: 2319.3/32$

Out: -30.784 ± 0.385 $\chi^2/\text{NDF}: 1882.7/35$

All: -30.915 ± 0.273 $\chi^2/\text{NDF}: 4202.3/68$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -115.199 ± 2.081 $\chi^2/\text{NDF}: 140.8/16$

Left Out: -147.229 ± 0.556 $\chi^2/\text{NDF}: 705.1/16$

Right Out: -112.611 ± 2.209 $\chi^2/\text{NDF}: 272.4/18$

Left In: -146.706 ± 0.552 $\chi^2/\text{NDF}: 1055.9/15$

Left: -146.966 ± 0.392 $\chi^2/\text{NDF}: 1761.5/32$

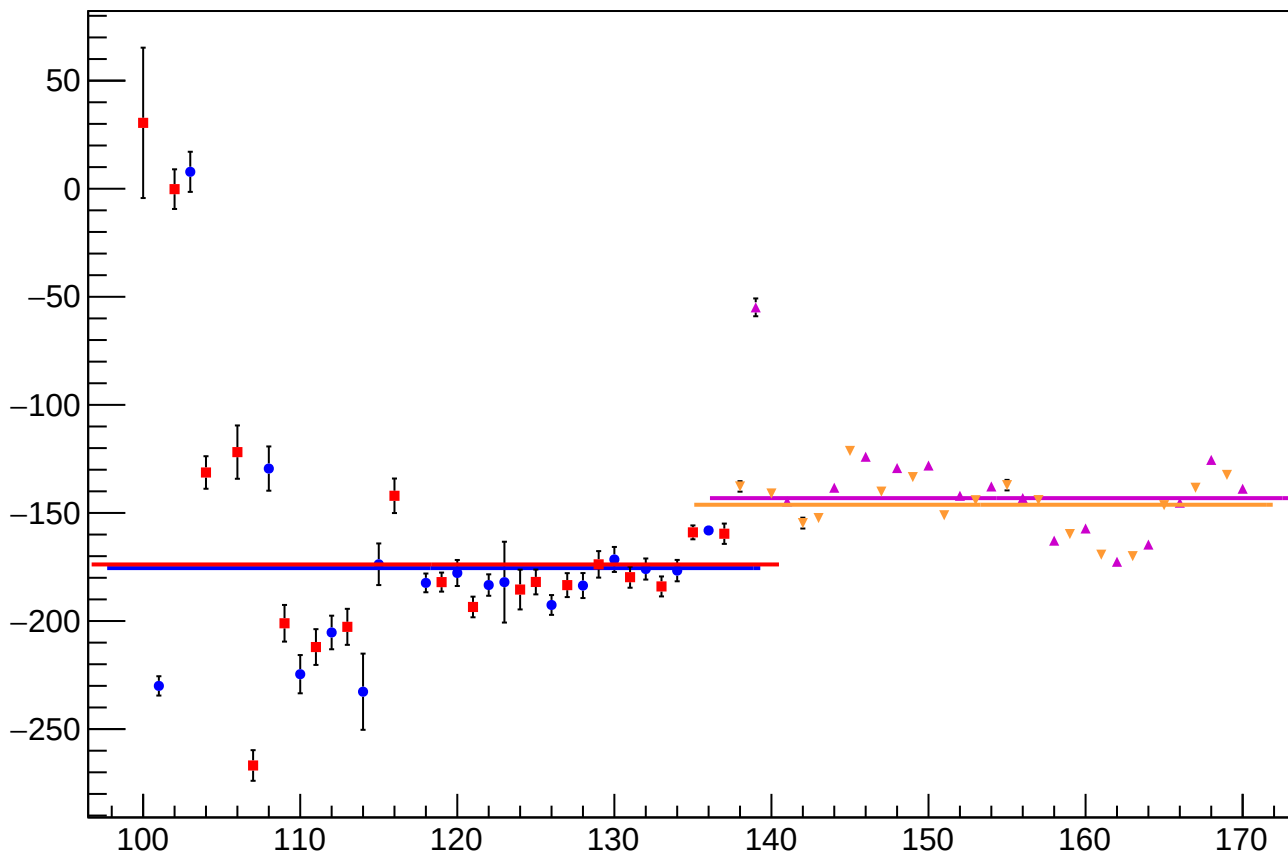
Right: -113.982 ± 1.515 $\chi^2/\text{NDF}: 413.9/35$

In: -144.636 ± 0.534 $\chi^2/\text{NDF}: 1410.8/32$

Out: -145.171 ± 0.539 $\chi^2/\text{NDF}: 1208.4/35$

All: -144.901 ± 0.379 $\chi^2/\text{NDF}: 2619.7/68$

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -175.521 ± 1.277 $\chi^2/\text{NDF}: 692.3/16$

Left Out: -146.207 ± 0.467 $\chi^2/\text{NDF}: 848.0/16$

Right Out: -173.830 ± 1.357 $\chi^2/\text{NDF}: 737.9/18$

Left In: -143.149 ± 0.472 $\chi^2/\text{NDF}: 1434.8/15$

Left: -144.693 ± 0.332 $\chi^2/\text{NDF}: 2304.0/32$

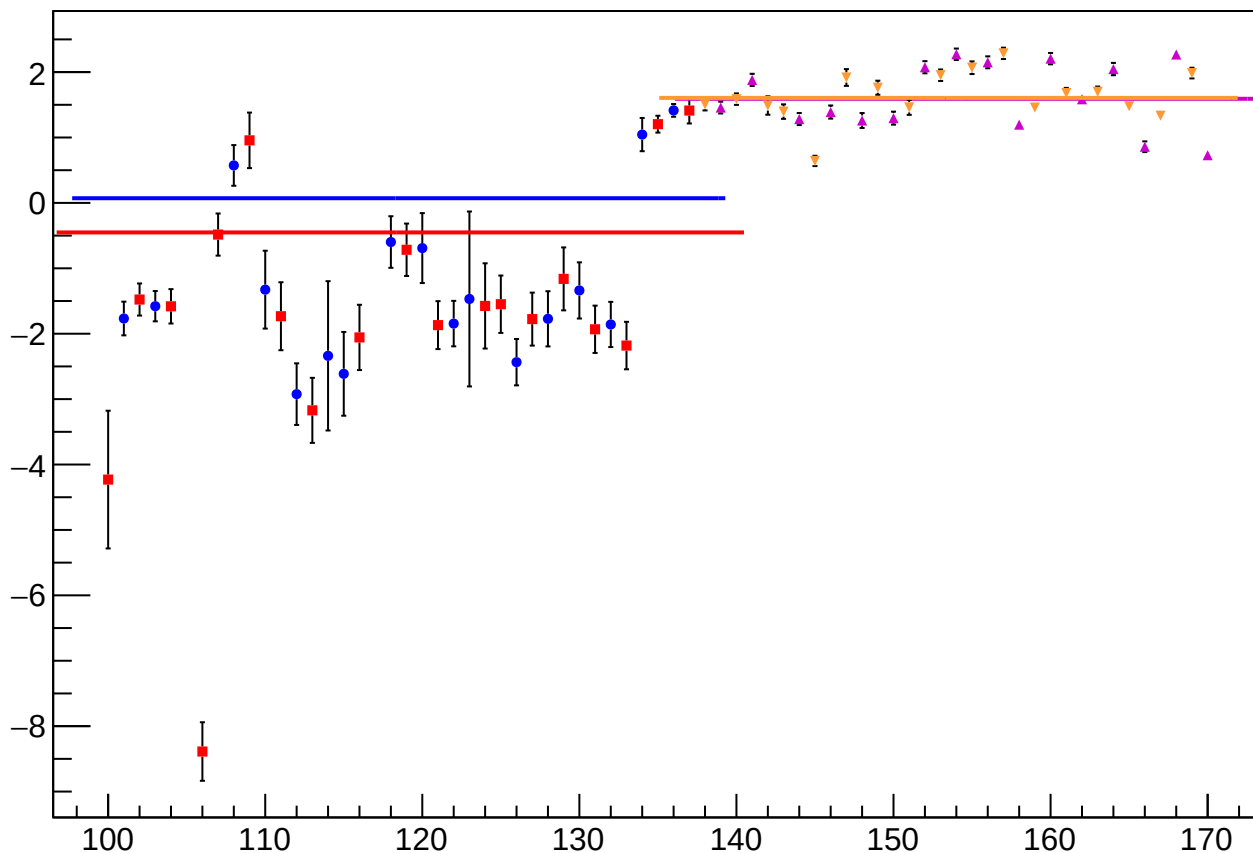
Right: -174.726 ± 0.930 $\chi^2/\text{NDF}: 1431.0/35$

In: -147.039 ± 0.443 $\chi^2/\text{NDF}: 2692.4/32$

Out: -149.137 ± 0.442 $\chi^2/\text{NDF}: 1956.6/35$

All: -148.090 ± 0.313 $\chi^2/\text{NDF}: 4660.2/68$

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.072 $\pm$ 0.067 χ^2 /NDF: 525.2/16

Left Out: 1.606 $\pm$ 0.022 χ^2 /NDF:307.1/16

Right Out: -0.451 $\pm$ 0.071 χ^2 /NDF: 751.3/18

Left In: 1.592 $\pm$ 0.022 χ^2 /NDF:590.2/15

Left: 1.599 $\pm$ 0.015 χ^2 /NDF: 897.5/32

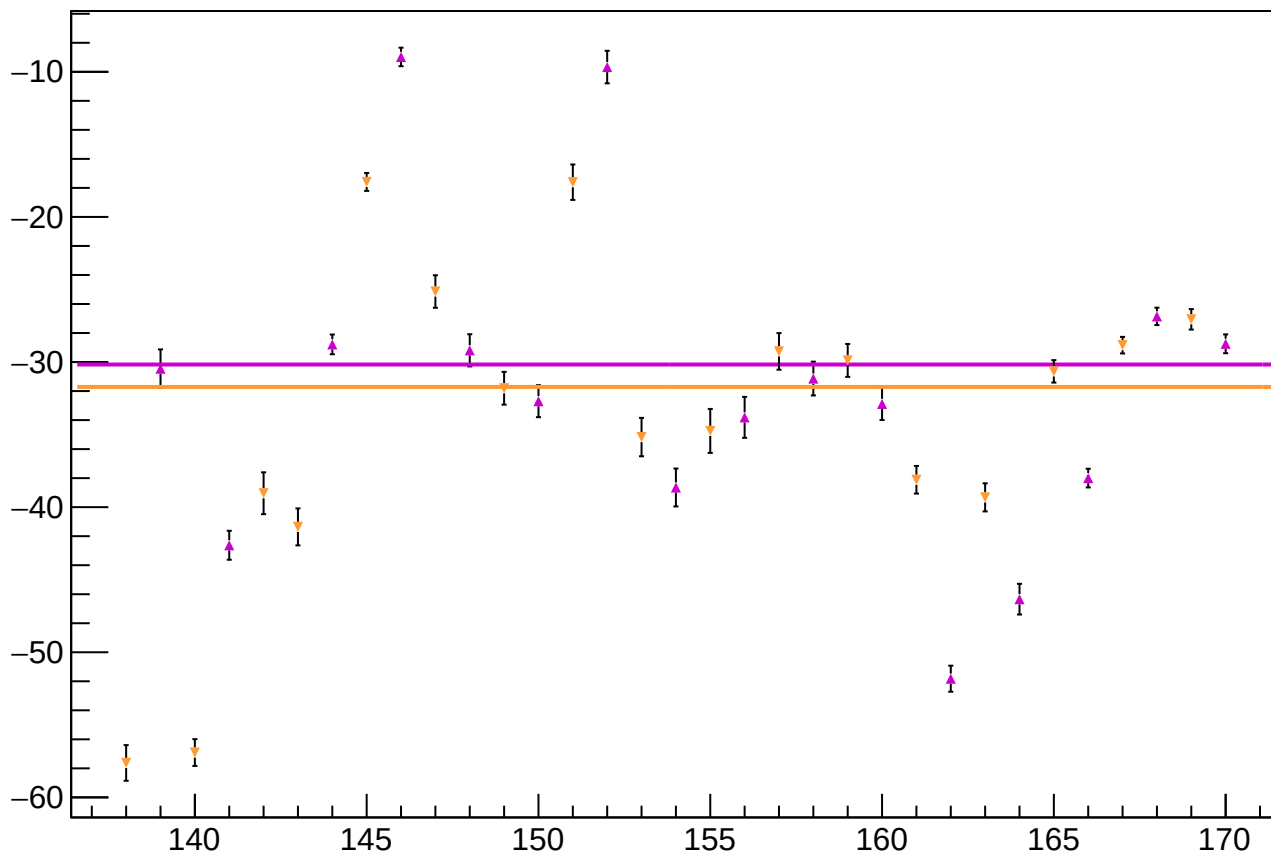
Right: -0.174 $\pm$ 0.049 χ^2 /NDF: 1305.0/35

In: 1.449 $\pm$ 0.021 χ^2 /NDF:1579.9/32

Out: 1.430 $\pm$ 0.021 χ^2 /NDF:1819.0/35

All: 1.440 $\pm$ 0.015 χ^2 /NDF: 3399.3/68

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

Left Out: -31.716 $\pm$ 0.229 χ^2/NDF :2160.2/16

Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

Left In: -30.170 $\pm$ 0.218 χ^2/NDF :2656.6/15

Left: -30.908 $\pm$ 0.158 χ^2/NDF : 4840.7/32

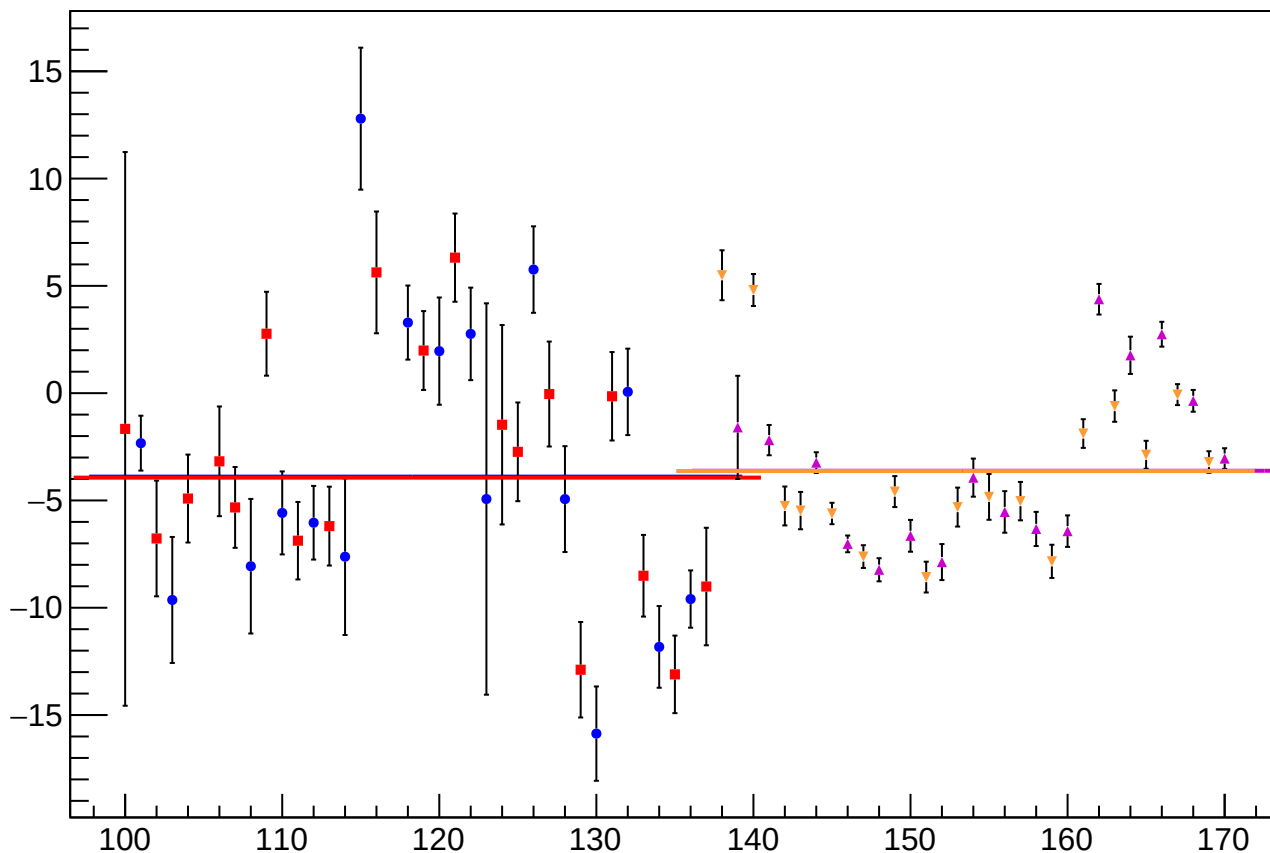
Right: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

In: -30.170 $\pm$ 0.218 χ^2/NDF :2656.6/15

Out: -31.716 $\pm$ 0.229 χ^2/NDF :2160.2/16

All: -30.908 $\pm$ 0.158 χ^2/NDF : 4840.7/32

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.890 ± 0.498 $\chi^2/\text{NDF}: 160.5/16$

Left Out: -3.630 ± 0.166 $\chi^2/\text{NDF}: 434.5/16$

Right Out: -3.937 ± 0.507 $\chi^2/\text{NDF}: 122.2/18$

Left In: -3.617 ± 0.158 $\chi^2/\text{NDF}: 554.8/15$

Left: -3.623 ± 0.115 $\chi^2/\text{NDF}: 989.2/32$

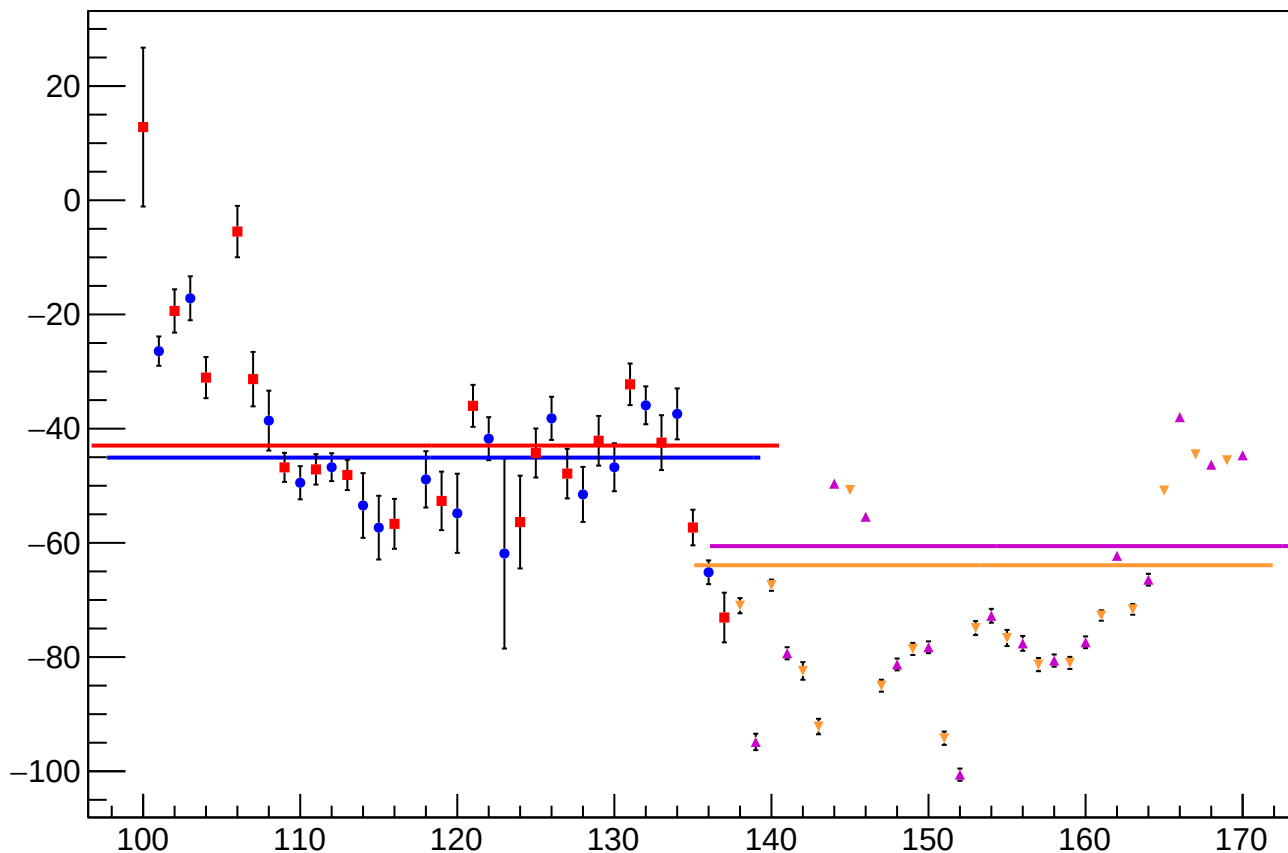
Right: -3.913 ± 0.355 $\chi^2/\text{NDF}: 282.6/35$

In: -3.642 ± 0.151 $\chi^2/\text{NDF}: 715.5/32$

Out: -3.660 ± 0.158 $\chi^2/\text{NDF}: 556.9/35$

All: -3.651 ± 0.109 $\chi^2/\text{NDF}: 1272.5/68$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -45.070 ± 0.883 $\chi^2/\text{NDF}: 229.7/16$

Left Out: -63.917 ± 0.228 $\chi^2/\text{NDF}: 5177.4/16$

Right Out: -42.959 ± 0.878 $\chi^2/\text{NDF}: 248.3/18$

Left In: -60.568 ± 0.216 $\chi^2/\text{NDF}: 6522.8/15$

Left: -62.153 ± 0.157 $\chi^2/\text{NDF}: 11813.8/32$

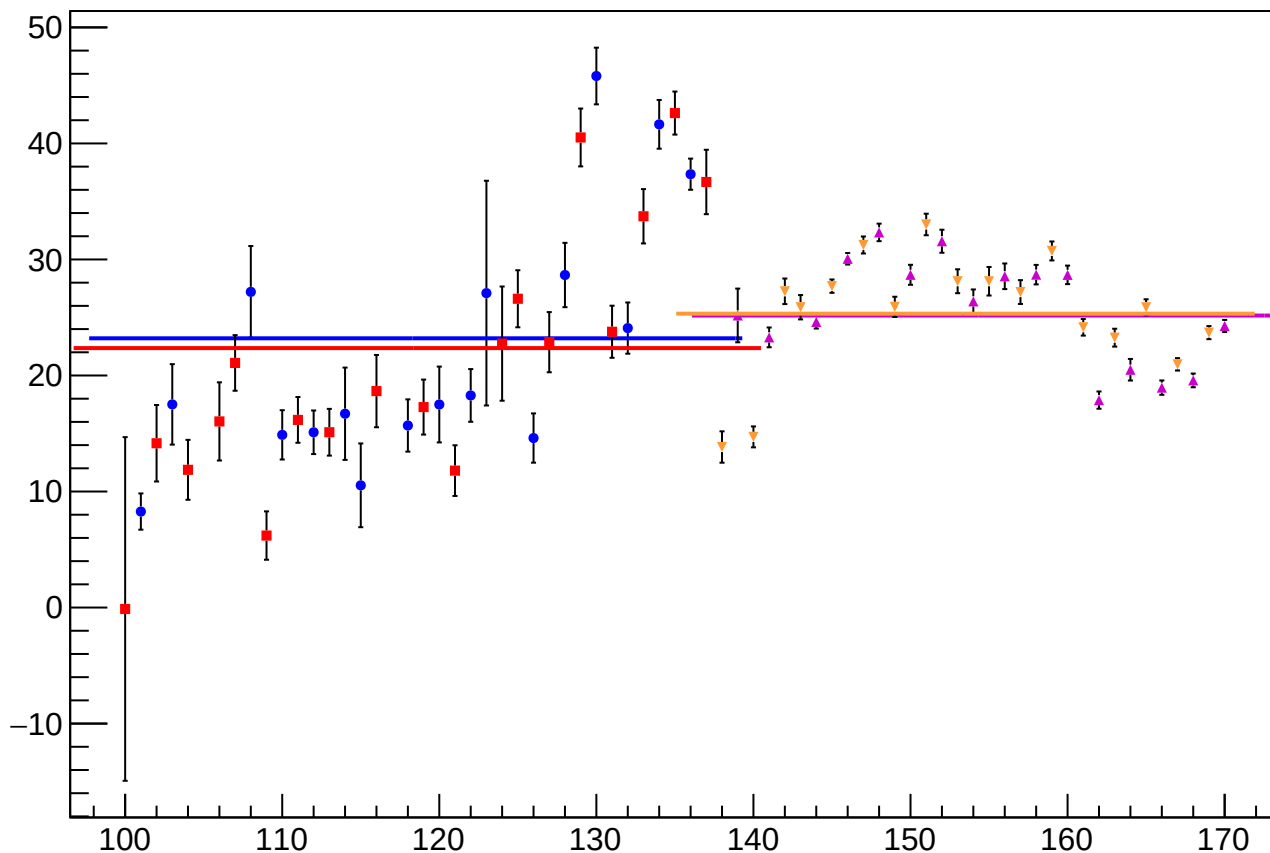
Right: -44.008 ± 0.623 $\chi^2/\text{NDF}: 480.9/35$

In: -59.692 ± 0.210 $\chi^2/\text{NDF}: 7042.9/32$

Out: -62.592 ± 0.221 $\chi^2/\text{NDF}: 5959.6/35$

All: -61.070 ± 0.152 $\chi^2/\text{NDF}: 13093.1/68$

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 23.205 $\pm$ 0.559 χ^2 /NDF: 457.3/16

Left Out: 25.328 $\pm$ 0.191 χ^2 /NDF: 510.5/16

Right Out: 22.361 $\pm$ 0.573 χ^2 /NDF: 366.9/18

Left In: 25.166 $\pm$ 0.184 χ^2 /NDF: 613.6/15

Left: 25.244 $\pm$ 0.133 χ^2 /NDF: 1124.5/32

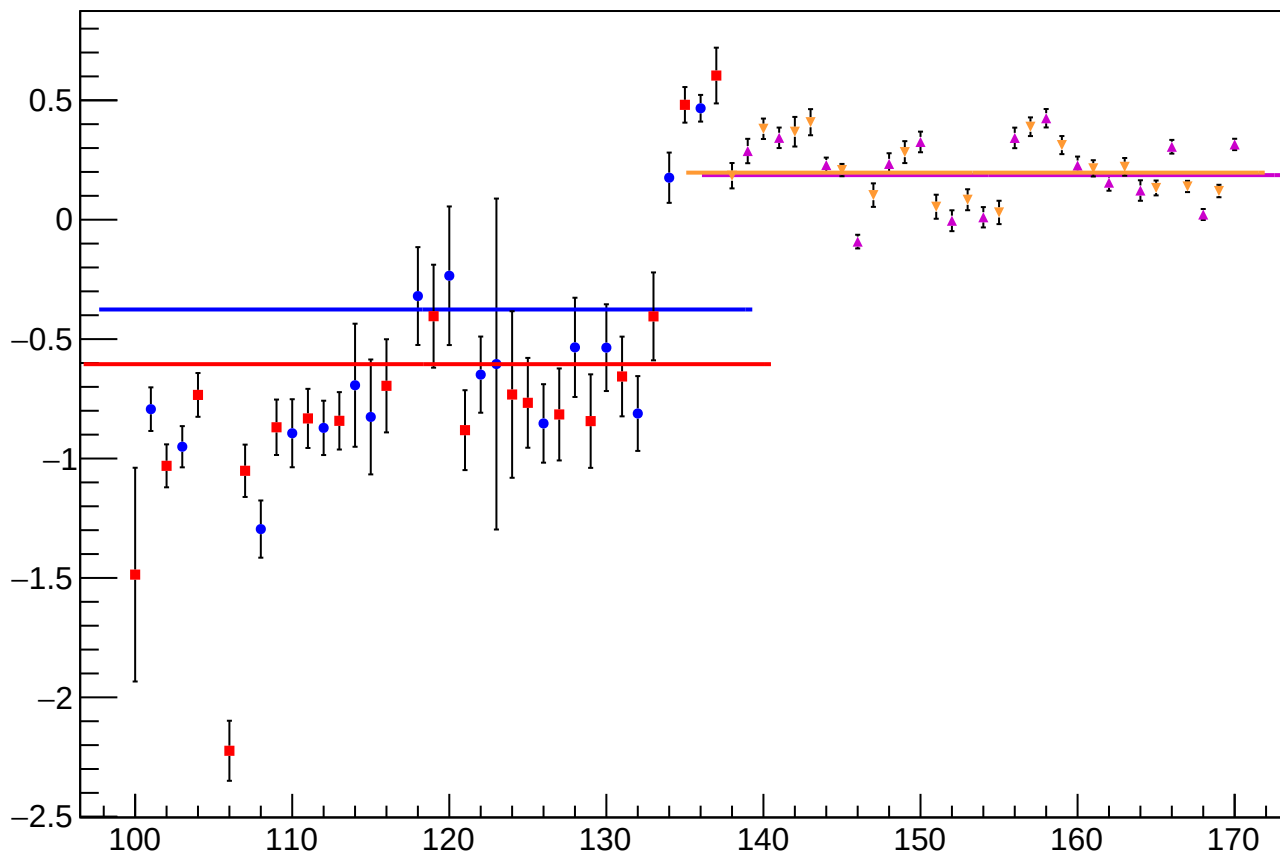
Right: 22.793 $\pm$ 0.400 χ^2 /NDF: 825.2/35

In: 24.974 $\pm$ 0.175 χ^2 /NDF: 1082.0/32

Out: 25.030 $\pm$ 0.182 χ^2 /NDF: 901.6/35

All: 25.001 $\pm$ 0.126 χ^2 /NDF: 1983.6/68

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.376 ± 0.030 $\chi^2/\text{NDF}: 437.3/16$

Left Out: 0.197 ± 0.009 $\chi^2/\text{NDF}: 127.8/16$

Right Out: -0.605 ± 0.030 $\chi^2/\text{NDF}: 551.1/18$

Left In: 0.187 ± 0.009 $\chi^2/\text{NDF}: 314.0/15$

Left: 0.192 ± 0.006 $\chi^2/\text{NDF}: 442.5/32$

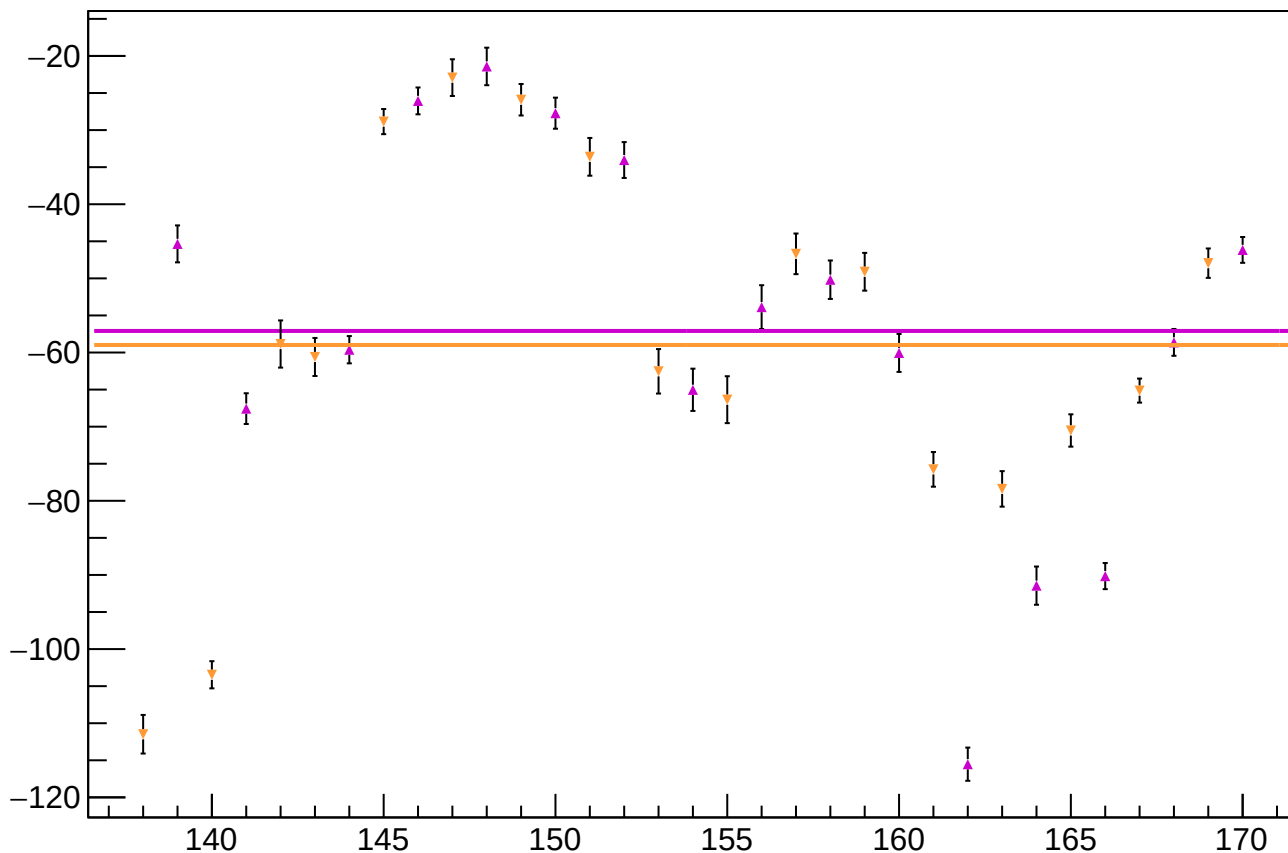
Right: -0.490 ± 0.021 $\chi^2/\text{NDF}: 1017.2/35$

In: 0.144 ± 0.008 $\chi^2/\text{NDF}: 1073.7/32$

Out: 0.132 ± 0.009 $\chi^2/\text{NDF}: 1326.2/35$

All: 0.138 ± 0.006 $\chi^2/\text{NDF}: 2400.9/68$

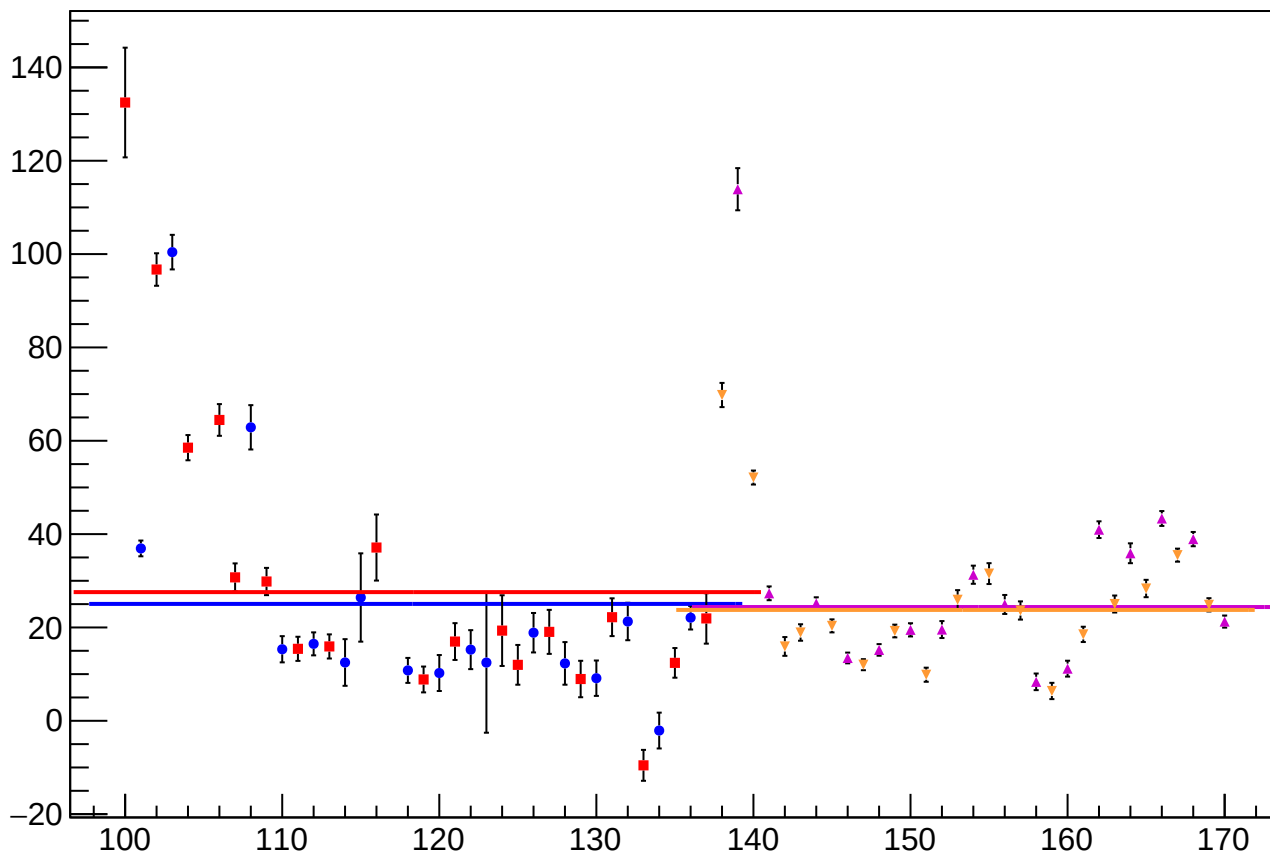
reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -58.982 ± 0.552 $\chi^2/\text{NDF}: 2098.1/16$
 Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -57.091 ± 0.543 $\chi^2/\text{NDF}: 2097.6/15$

Left: -58.021 ± 0.387 $\chi^2/\text{NDF}: 4201.6/32$
 Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 In: -57.091 ± 0.543 $\chi^2/\text{NDF}: 2097.6/15$
 Out: -58.982 ± 0.552 $\chi^2/\text{NDF}: 2098.1/16$
 All: -58.021 ± 0.387 $\chi^2/\text{NDF}: 4201.6/32$

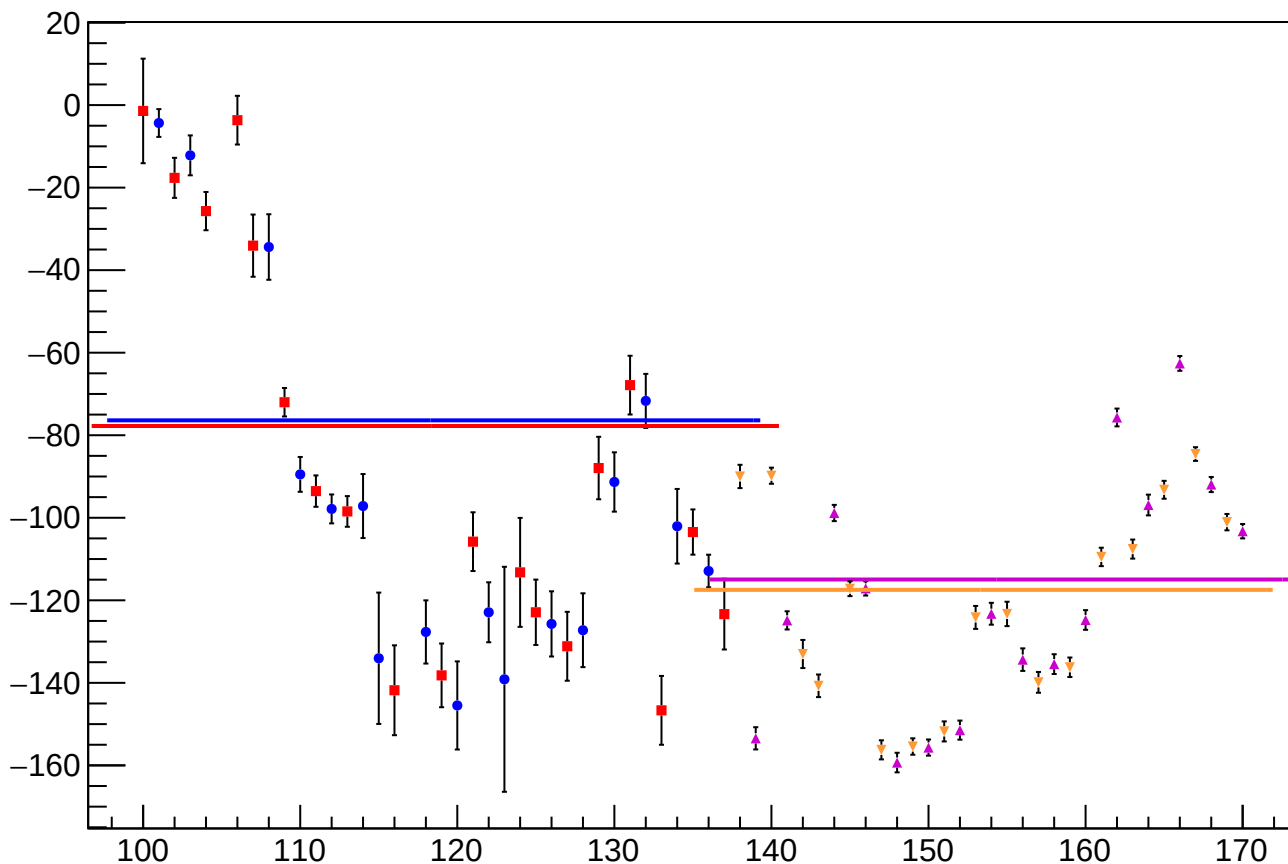
reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 25.045 $\pm$ 0.806 χ^2 /NDF: 686.4/16
 Left Out: 23.758 $\pm$ 0.397 χ^2 /NDF:1095.7/16
 Right Out: 27.573 $\pm$ 0.810 χ^2 /NDF: 1012.8/18
 Left In: 24.377 $\pm$ 0.395 χ^2 /NDF:1067.6/15

Left: 24.068 $\pm$ 0.280 χ^2 /NDF: 2164.5/32
 Right: 26.303 $\pm$ 0.571 χ^2 /NDF: 1704.1/35
 In: 24.506 $\pm$ 0.355 χ^2 /NDF:1754.6/32
 Out: 24.496 $\pm$ 0.356 χ^2 /NDF:2126.4/35
 All: 24.501 $\pm$ 0.251 χ^2 /NDF: 3881.0/68

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -76.392 ± 1.416 $\chi^2/\text{NDF}: 1031.9/16$

Left Out: -117.468 ± 0.548 $\chi^2/\text{NDF}: 2002.7/16$

Right Out: -77.761 ± 1.353 $\chi^2/\text{NDF}: 872.7/18$

Left In: -114.957 ± 0.535 $\chi^2/\text{NDF}: 2910.7/15$

Left: -116.182 ± 0.383 $\chi^2/\text{NDF}: 4924.2/32$

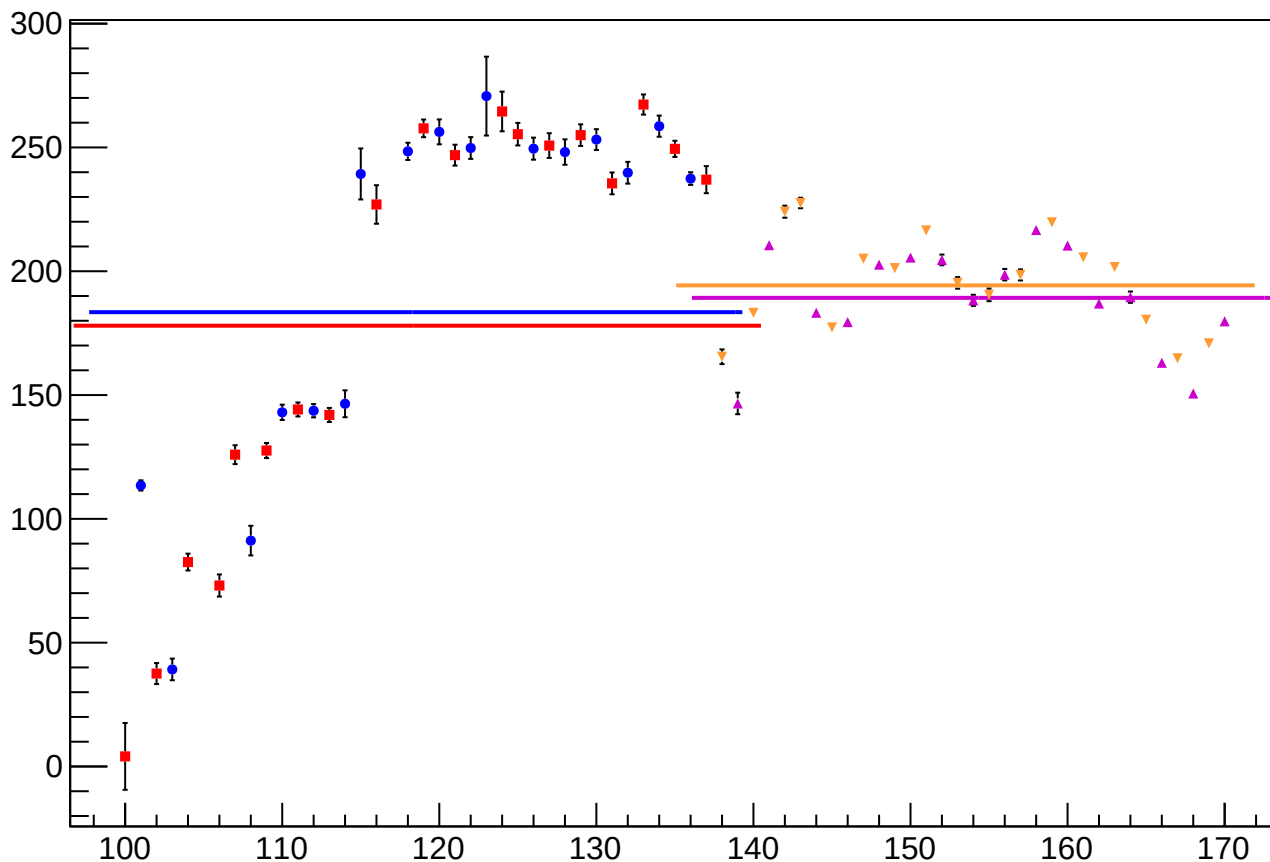
Right: -77.108 ± 0.978 $\chi^2/\text{NDF}: 1905.1/35$

In: -110.142 ± 0.500 $\chi^2/\text{NDF}: 4591.6/32$

Out: -111.866 ± 0.508 $\chi^2/\text{NDF}: 3615.3/35$

All: -110.991 ± 0.357 $\chi^2/\text{NDF}: 8212.8/68$

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 183.478+/-0.919 χ^2/NDF : 5331.4/16

Left Out: 194.301+/-0.460 χ^2/NDF :1724.8/16

Right Out: 178.011+/-0.924 χ^2/NDF : 6345.7/18

Left In: 189.254+/-0.457 χ^2/NDF :1624.6/15

Left: 191.758+/-0.324 χ^2/NDF : 3410.0/32

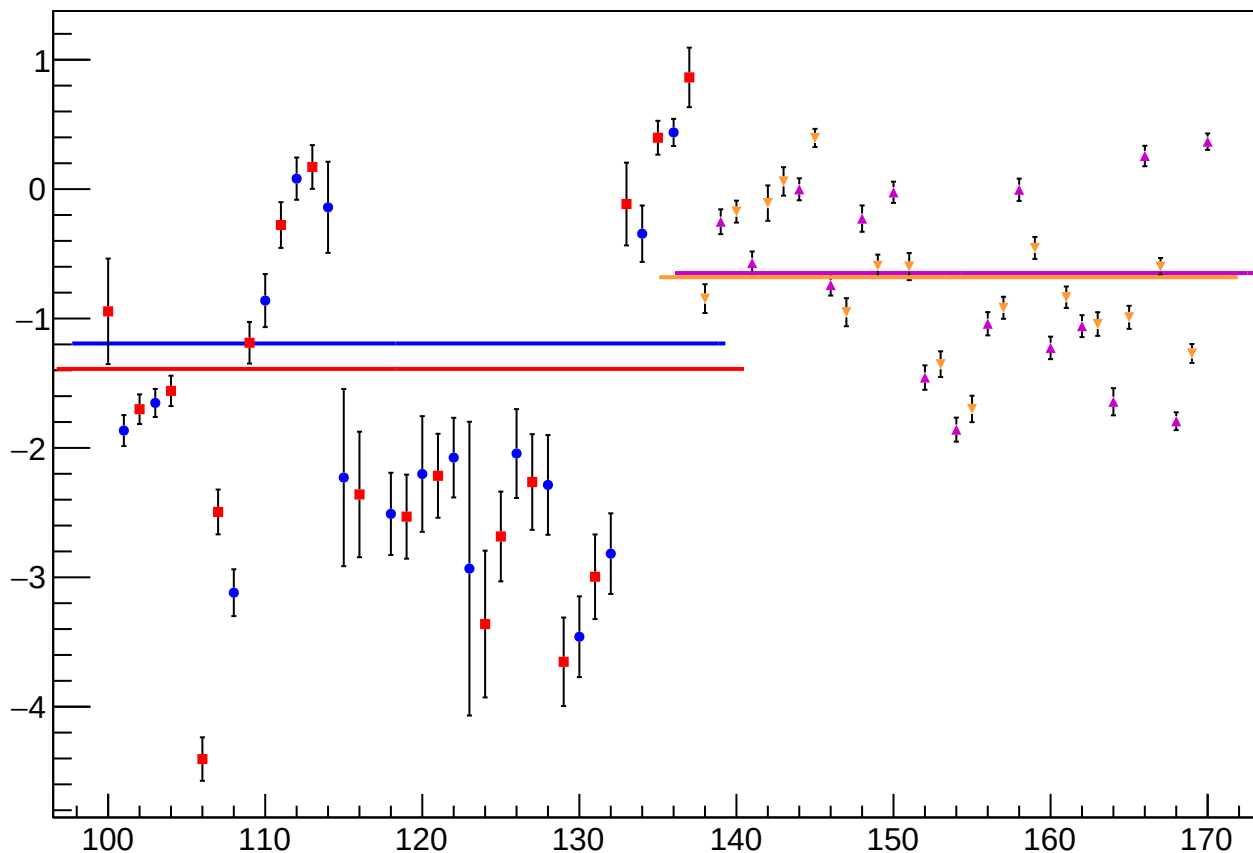
Right: 180.761+/-0.651 χ^2/NDF : 11694.8/35

In: 188.110+/-0.409 χ^2/NDF :6987.7/32

Out: 191.064+/-0.412 χ^2/NDF :8319.6/35

All: 189.576+/-0.290 χ^2/NDF : 15333.3/68

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.193 ± 0.048 χ^2/NDF : 621.7/16

Left Out: -0.681 ± 0.022 χ^2/NDF : 600.7/16

Right Out: -1.390 ± 0.046 χ^2/NDF : 920.6/18

Left In: -0.649 ± 0.021 χ^2/NDF : 1290.5/15

Left: -0.664 ± 0.015 χ^2/NDF : 1892.3/32

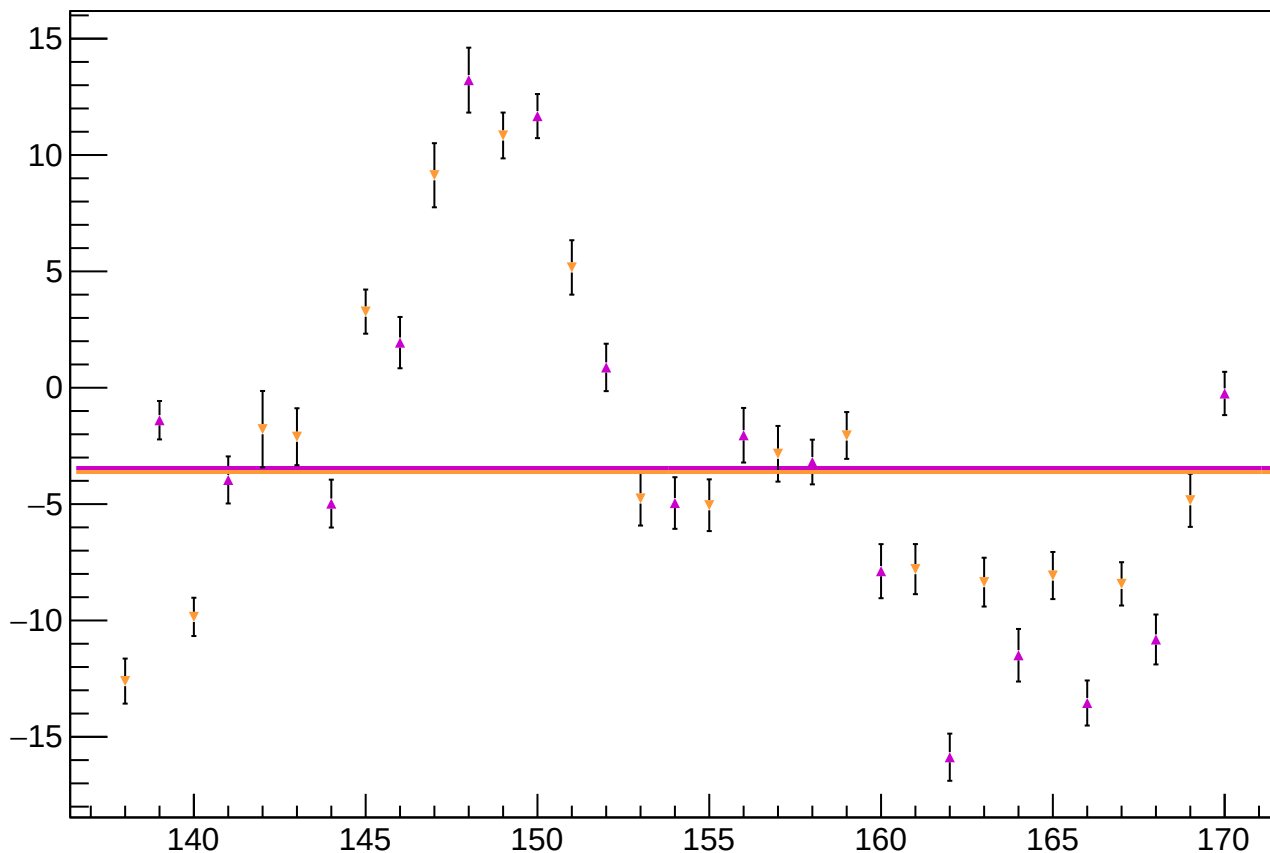
Right: -1.296 ± 0.033 χ^2/NDF : 1551.0/35

In: -0.736 ± 0.019 χ^2/NDF : 2019.2/32

Out: -0.810 ± 0.020 χ^2/NDF : 1716.9/35

All: -0.773 ± 0.014 χ^2/NDF : 3743.2/68

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: -3.619 $\pm$ 0.259 χ^2 /NDF:645.1/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: -3.449 $\pm$ 0.258 χ^2 /NDF:835.1/15

Left: -3.534 $\pm$ 0.183 χ^2 /NDF: 1480.4/32

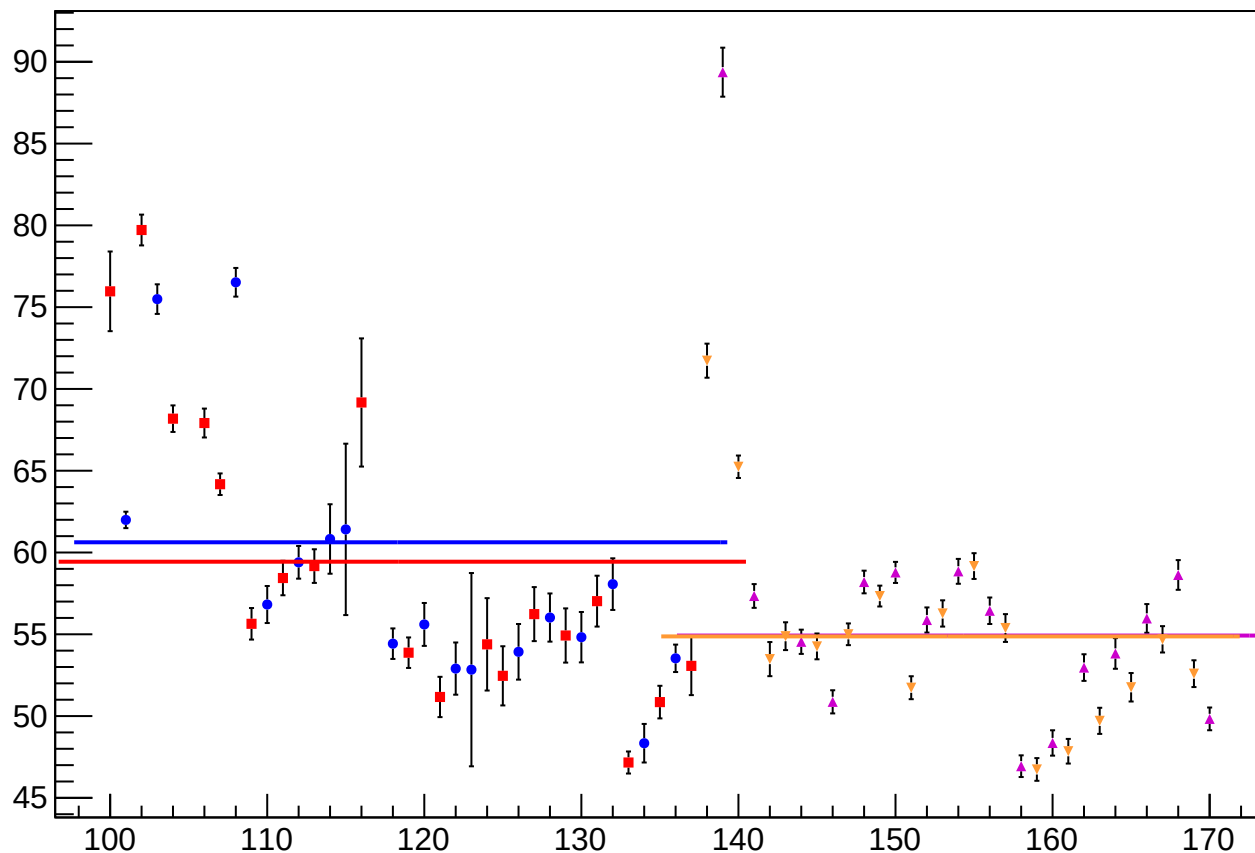
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: -3.449 $\pm$ 0.258 χ^2 /NDF:835.1/15

Out: -3.619 $\pm$ 0.259 χ^2 /NDF:645.1/16

All: -3.534 $\pm$ 0.183 χ^2 /NDF: 1480.4/32

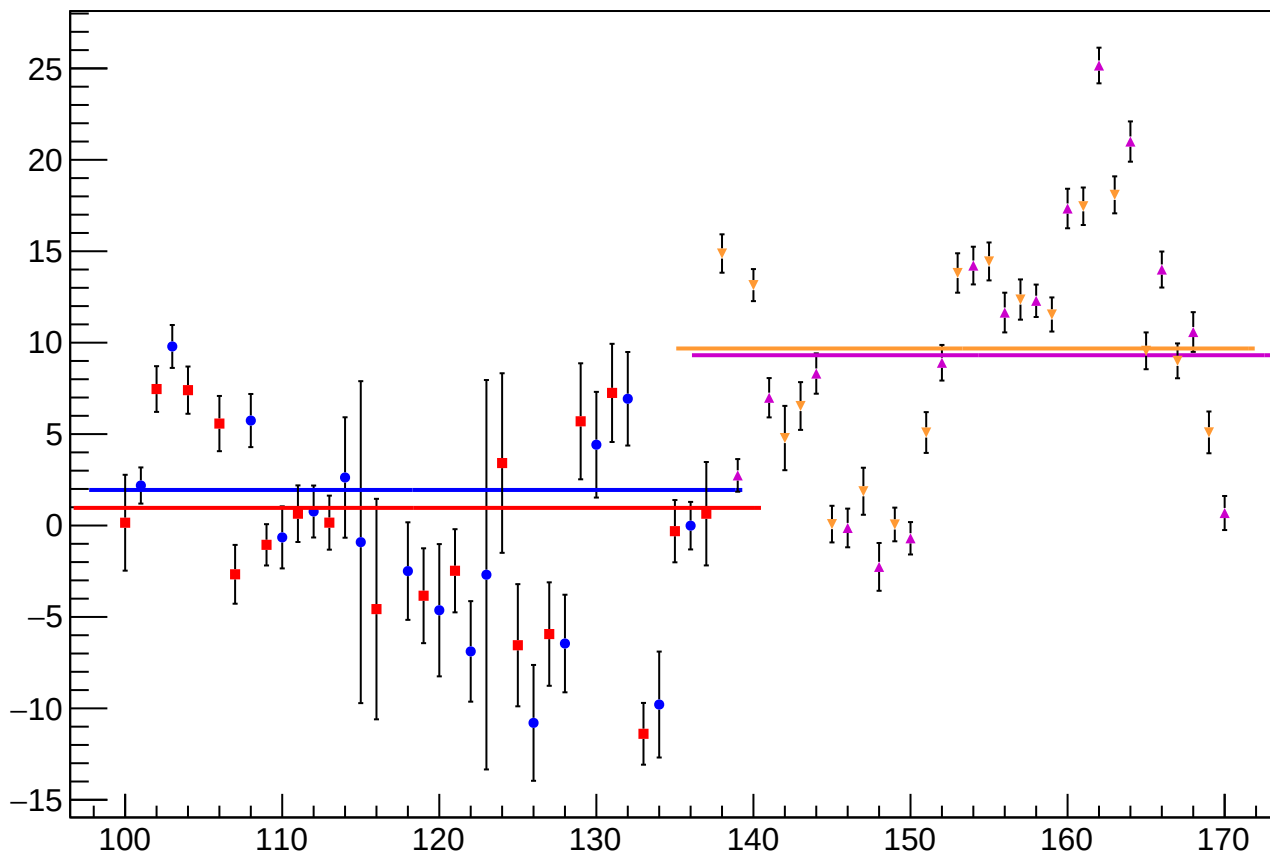
reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 60.625 ± 0.263 $\chi^2/\text{NDF}: 924.6/16$
 Left Out: 54.871 ± 0.189 $\chi^2/\text{NDF}: 847.6/16$
 Right Out: 59.438 ± 0.248 $\chi^2/\text{NDF}: 1323.4/18$
 Left In: 54.922 ± 0.193 $\chi^2/\text{NDF}: 958.4/15$

Left: 54.896 ± 0.135 $\chi^2/\text{NDF}: 1806.1/32$
 Right: 59.996 ± 0.180 $\chi^2/\text{NDF}: 2258.7/35$
 In: 56.921 ± 0.156 $\chi^2/\text{NDF}: 2188.3/32$
 Out: 56.549 ± 0.150 $\chi^2/\text{NDF}: 2385.8/35$
 All: 56.729 ± 0.108 $\chi^2/\text{NDF}: 4577.1/68$

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 1.945 $\pm$ 0.459 χ^2 /NDF: 120.6/16

Left Out: 9.682 $\pm$ 0.256 χ^2 /NDF:497.5/16

Right Out: 0.964 $\pm$ 0.424 χ^2 /NDF: 149.5/18

Left In: 9.313 $\pm$ 0.253 χ^2 /NDF:925.5/15

Left: 9.496 $\pm$ 0.180 χ^2 /NDF: 1424.1/32

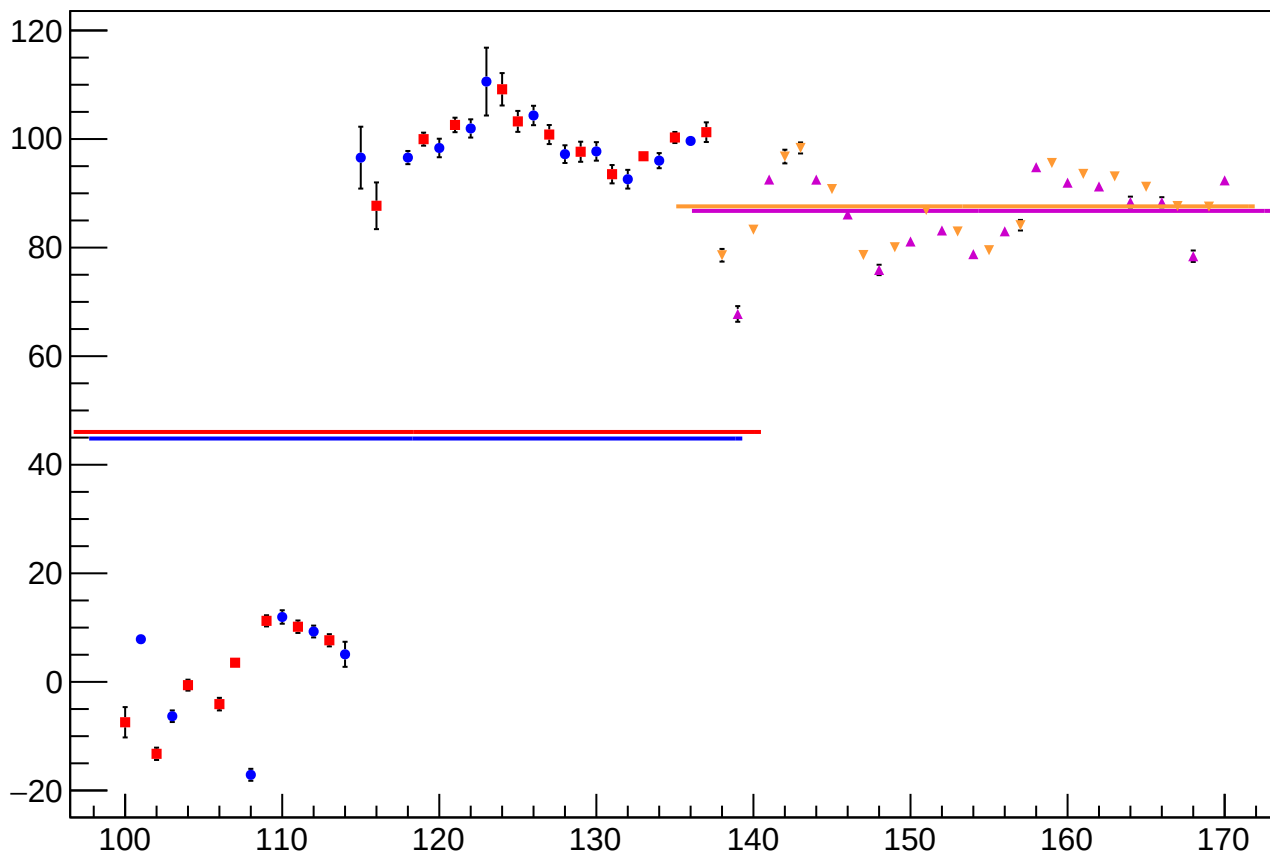
Right: 1.416 $\pm$ 0.312 χ^2 /NDF: 272.6/35

In: 7.591 $\pm$ 0.222 χ^2 /NDF:1243.8/32

Out: 7.355 $\pm$ 0.219 χ^2 /NDF:956.4/35

All: 7.472 $\pm$ 0.156 χ^2 /NDF: 2200.7/68

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 44.829 ± 0.305 $\chi^2/\text{NDF}: 24763.1/16$

Left Out: 87.597 ± 0.217 $\chi^2/\text{NDF}: 811.3/16$

Right Out: 46.040 ± 0.289 $\chi^2/\text{NDF}: 28263.4/18$

Left In: 86.762 ± 0.220 $\chi^2/\text{NDF}: 885.9/15$

Left: 87.185 ± 0.155 $\chi^2/\text{NDF}: 1704.5/32$

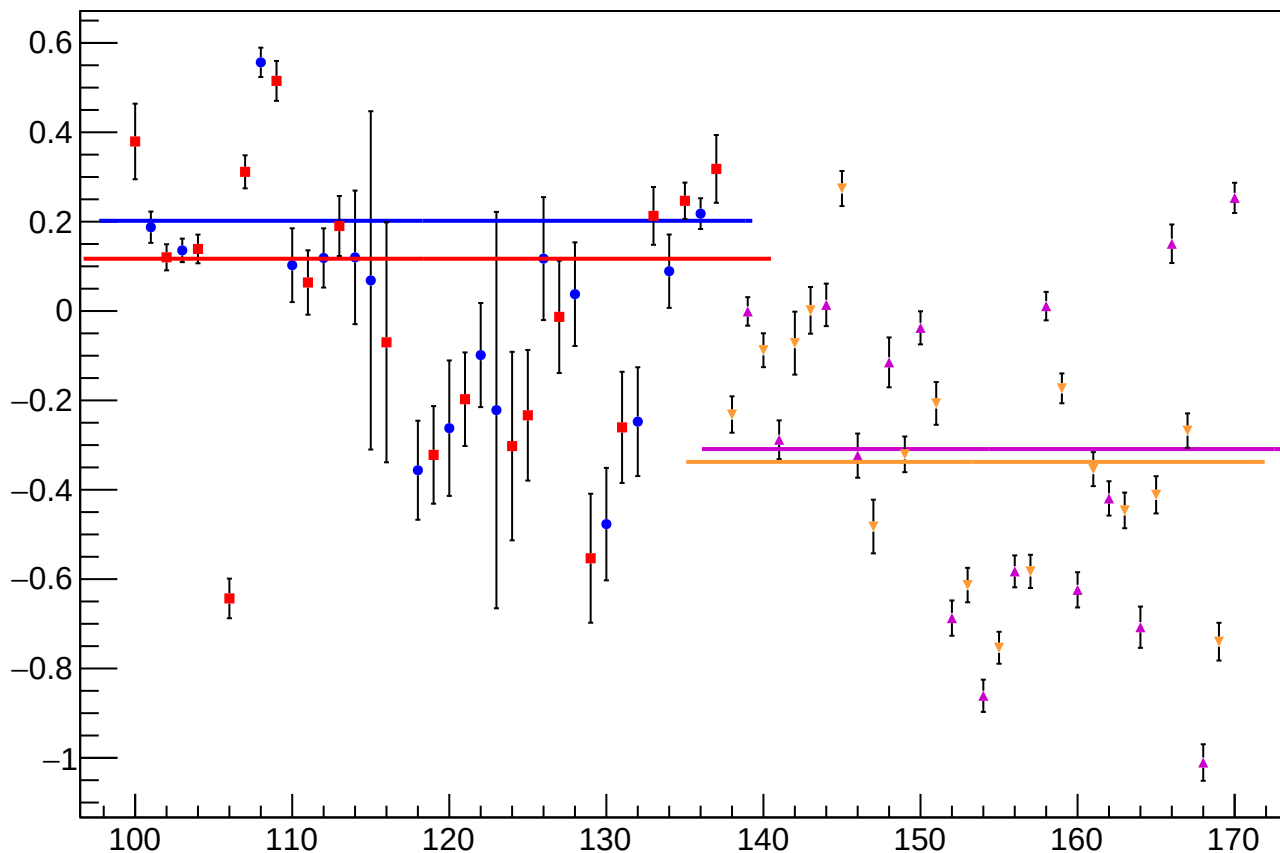
Right: 45.465 ± 0.210 $\chi^2/\text{NDF}: 53034.8/35$

In: 72.394 ± 0.178 $\chi^2/\text{NDF}: 38102.4/32$

Out: 72.631 ± 0.174 $\chi^2/\text{NDF}: 42262.2/35$

All: 72.515 ± 0.124 $\chi^2/\text{NDF}: 80365.6/68$

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.202 ± 0.014 χ^2/NDF : 216.0/16

Left Out: -0.338 ± 0.010 χ^2/NDF : 722.2/16

Right Out: 0.117 ± 0.013 χ^2/NDF : 499.6/18

Left In: -0.309 ± 0.010 χ^2/NDF : 1520.9/15

Left: -0.323 ± 0.007 χ^2/NDF : 2247.3/32

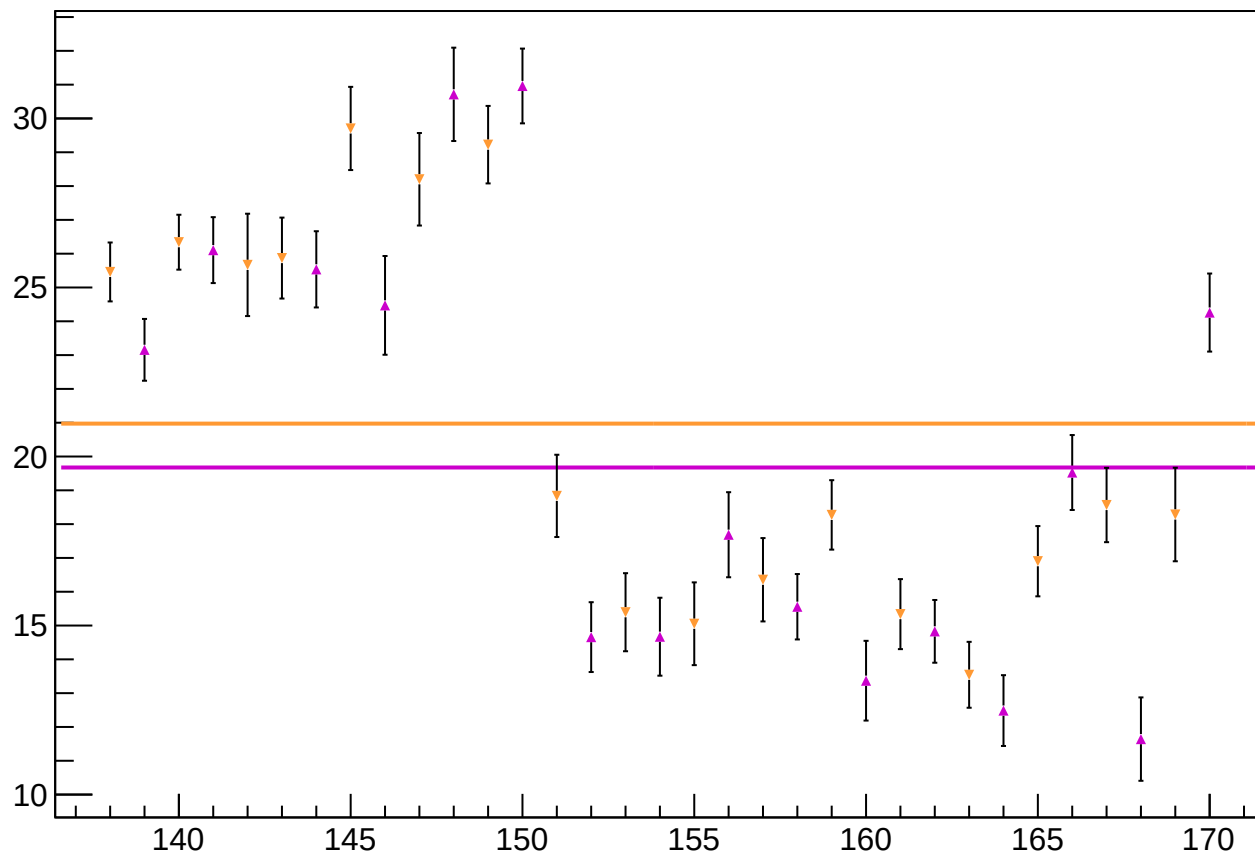
Right: 0.156 ± 0.010 χ^2/NDF : 735.2/35

In: -0.142 ± 0.008 χ^2/NDF : 2625.5/32

Out: -0.170 ± 0.008 χ^2/NDF : 1989.9/35

All: -0.156 ± 0.006 χ^2/NDF : 4621.7/68

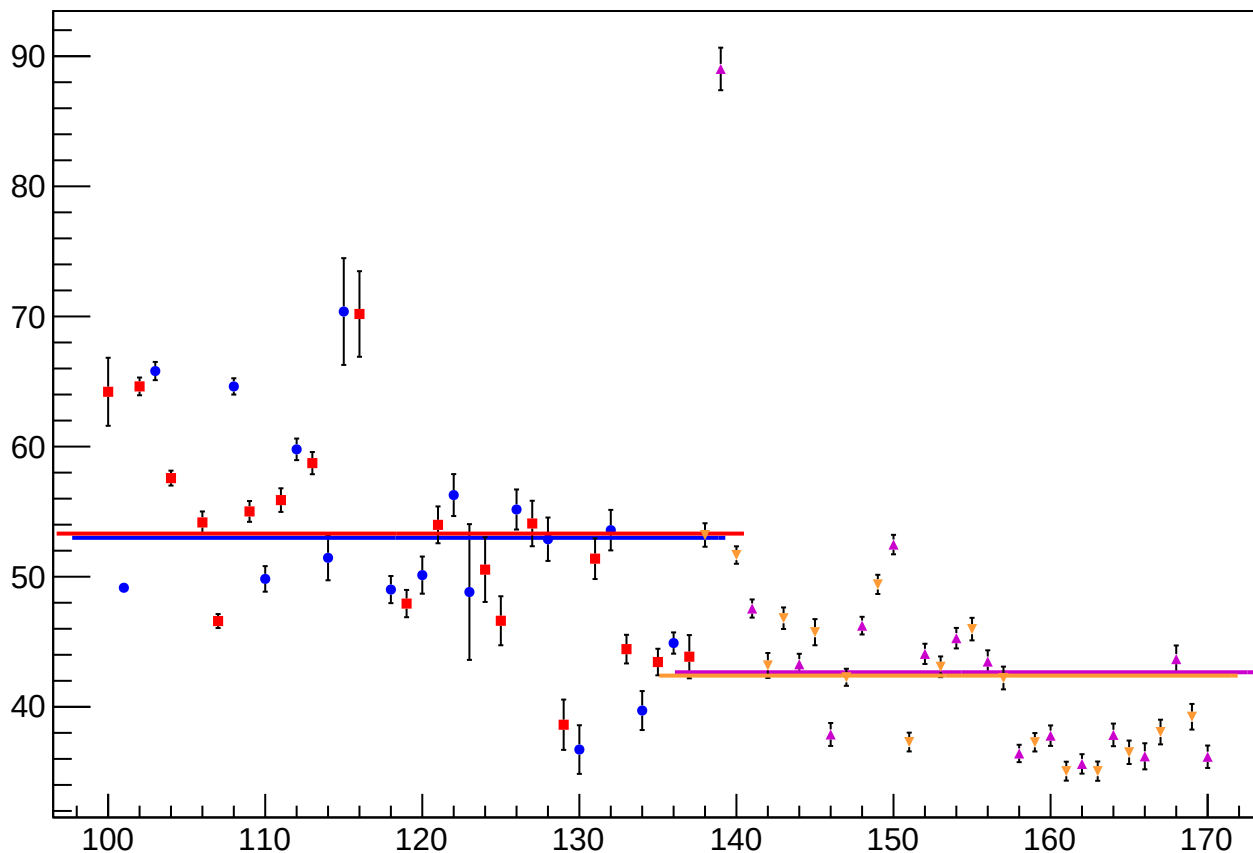
reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 20.973 $\pm$ 0.268 χ^2 /NDF:409.0/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 19.675 $\pm$ 0.275 χ^2 /NDF:488.2/15

Left: 20.339 $\pm$ 0.192 χ^2 /NDF: 908.6/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 19.675 $\pm$ 0.275 χ^2 /NDF:488.2/15
 Out: 20.973 $\pm$ 0.268 χ^2 /NDF:409.0/16
 All: 20.339 $\pm$ 0.192 χ^2 /NDF: 908.6/32

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 52.989 $\pm$ 0.211 χ^2 /NDF: 1198.0/16

Left Out: 42.400 $\pm$ 0.195 χ^2 /NDF:858.9/16

Right Out: 53.315 $\pm$ 0.227 χ^2 /NDF: 875.6/18

Left In: 42.658 $\pm$ 0.204 χ^2 /NDF:1443.5/15

Left: 42.523 $\pm$ 0.141 χ^2 /NDF: 2303.3/32

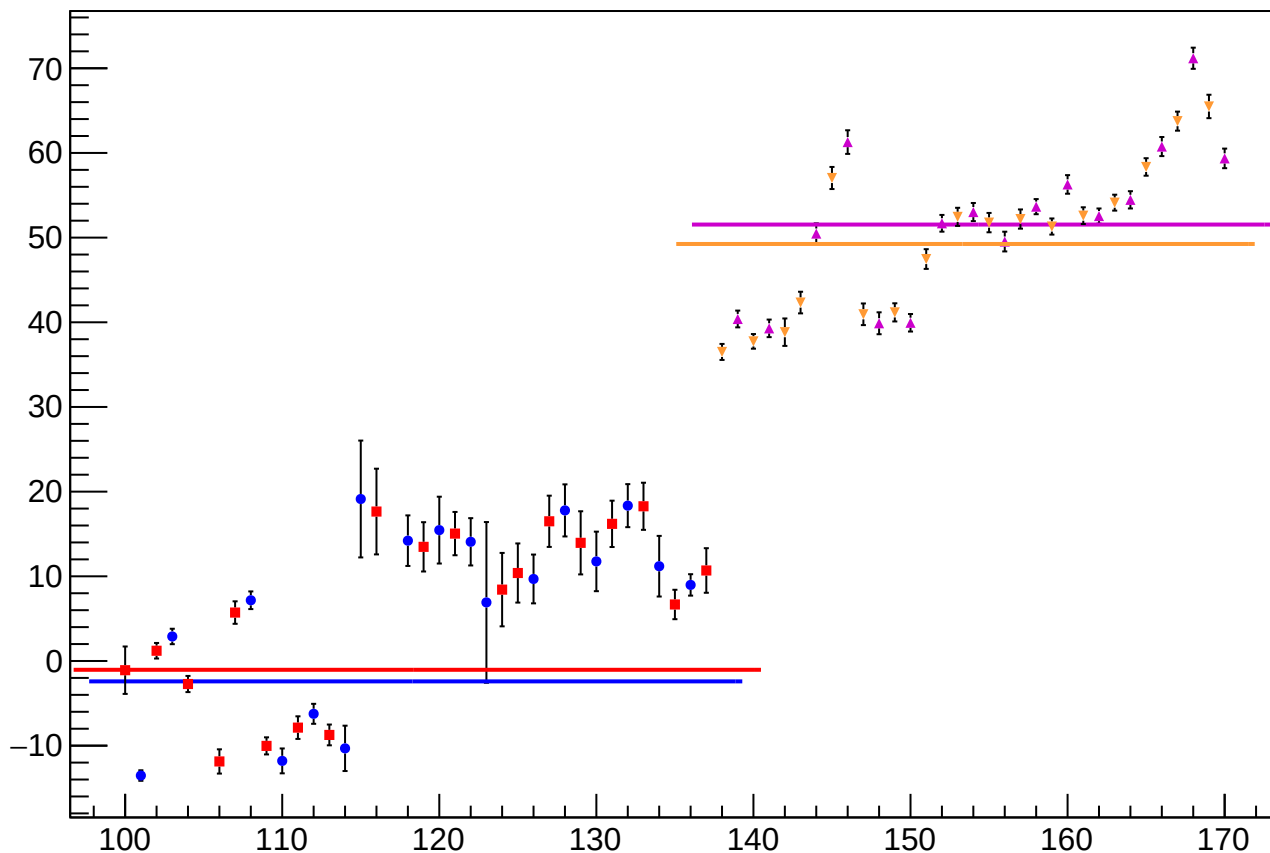
Right: 53.140 $\pm$ 0.154 χ^2 /NDF: 2074.7/35

In: 47.649 $\pm$ 0.147 χ^2 /NDF:3882.0/32

Out: 47.033 $\pm$ 0.148 χ^2 /NDF:3068.2/35

All: 47.344 $\pm$ 0.104 χ^2 /NDF: 6958.9/68

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.409 ± 0.364 χ^2/NDF : 834.6/16

Left Out: 49.248 ± 0.266 χ^2/NDF : 1011.9/16

Right Out: -1.040 ± 0.377 χ^2/NDF : 507.5/18

Left In: 51.542 ± 0.269 χ^2/NDF : 921.3/15

Left: 50.379 ± 0.189 χ^2/NDF : 1970.0/32

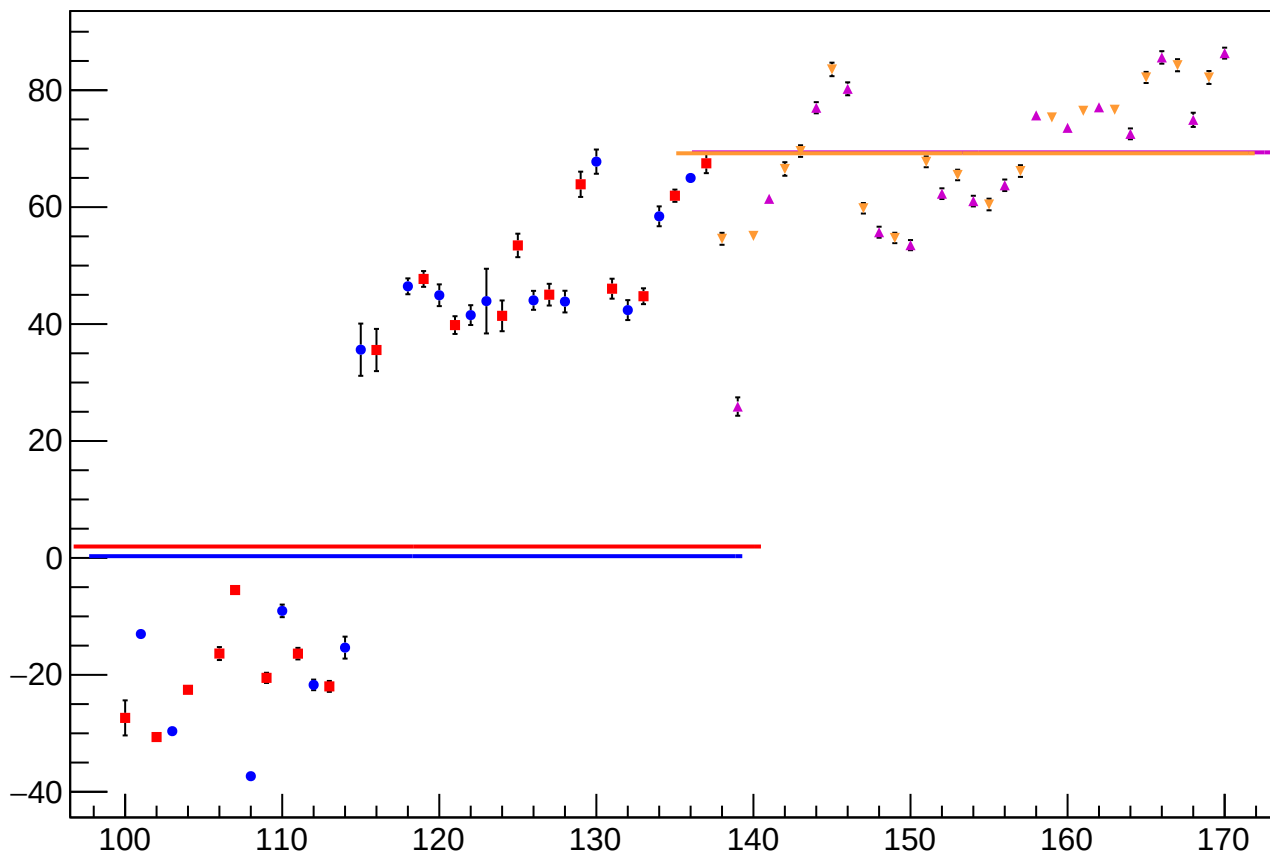
Right: -1.748 ± 0.262 χ^2/NDF : 1349.0/35

In: 32.478 ± 0.217 χ^2/NDF : 15936.8/32

Out: 32.573 ± 0.217 χ^2/NDF : 13408.7/35

All: 32.526 ± 0.153 χ^2/NDF : 29345.6/68

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.300+/-0.247 χ^2/NDF : 18259.2/16

Left Out: 69.208+/-0.224 χ^2/NDF :1931.8/16

Right Out: 1.952+/-0.267 χ^2/NDF : 15450.6/18

Left In: 69.368+/-0.232 χ^2/NDF :2530.5/15

Left: 69.285+/-0.161 χ^2/NDF : 4462.6/32

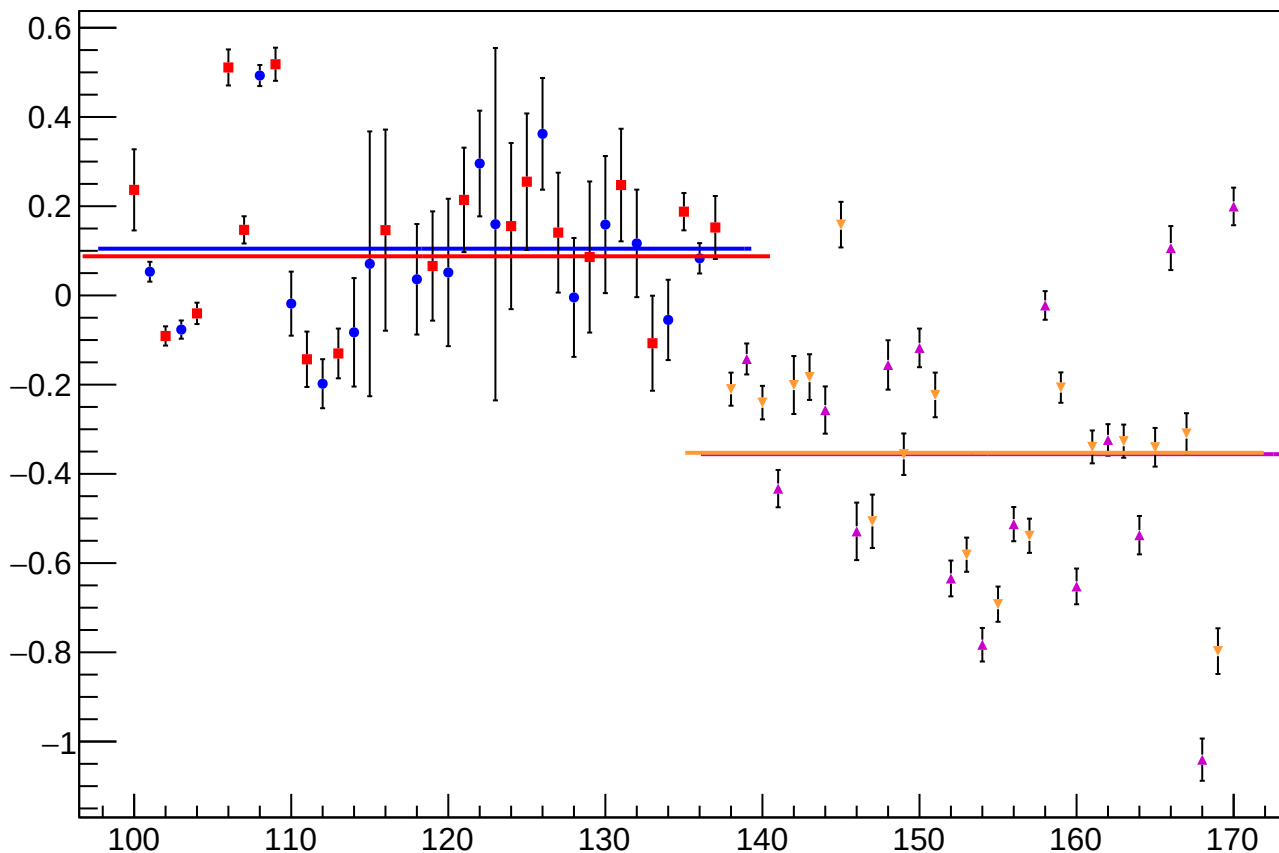
Right: 1.065+/-0.181 χ^2/NDF : 33730.4/35

In: 37.017+/-0.169 χ^2/NDF :62216.0/32

Out: 41.330+/-0.172 χ^2/NDF :54635.4/35

All: 39.144+/-0.121 χ^2/NDF : 117171.4/68

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.105 ± 0.011 $\chi^2/\text{NDF}: 400.8/16$

Left Out: -0.353 ± 0.010 $\chi^2/\text{NDF}: 381.9/16$

Right Out: 0.088 ± 0.011 $\chi^2/\text{NDF}: 390.9/18$

Left In: -0.356 ± 0.010 $\chi^2/\text{NDF}: 941.1/15$

Left: -0.354 ± 0.007 $\chi^2/\text{NDF}: 1323.0/32$

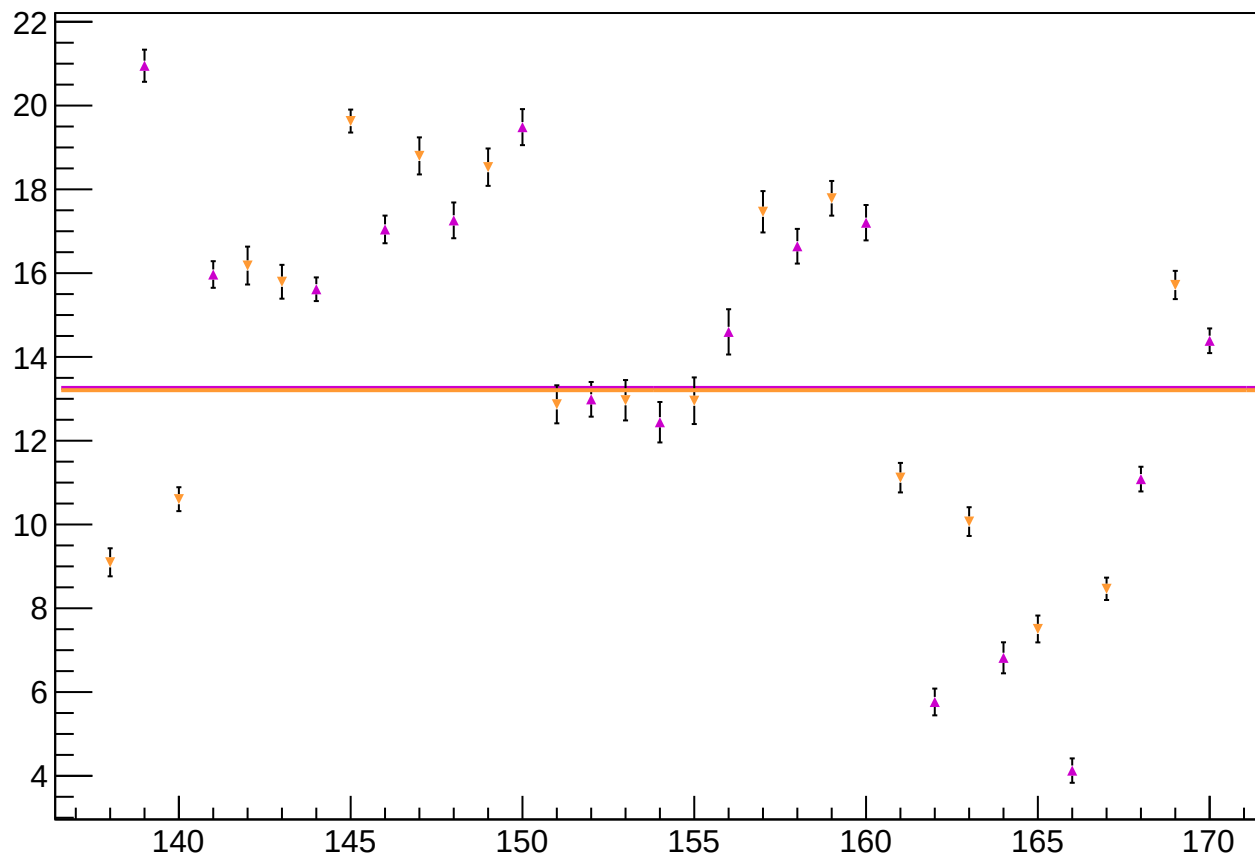
Right: 0.096 ± 0.008 $\chi^2/\text{NDF}: 792.8/35$

In: -0.139 ± 0.008 $\chi^2/\text{NDF}: 2263.1/32$

Out: -0.146 ± 0.008 $\chi^2/\text{NDF}: 1620.8/35$

All: -0.142 ± 0.005 $\chi^2/\text{NDF}: 3884.3/68$

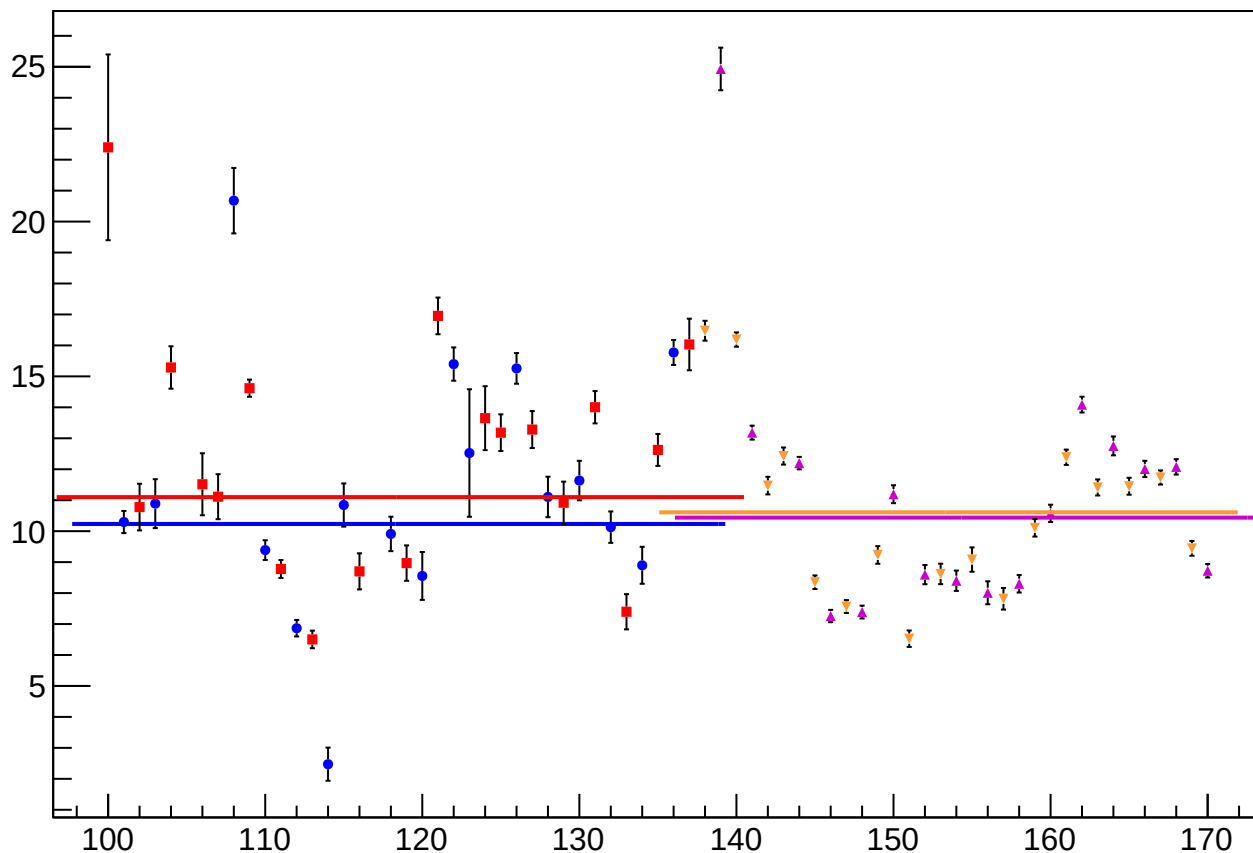
reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 13.206 $\pm$ 0.089 χ^2 /NDF:2173.6/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 13.260 $\pm$ 0.089 χ^2 /NDF:3042.2/15

Left: 13.233 $\pm$ 0.063 χ^2 /NDF: 5216.0/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 13.260 $\pm$ 0.089 χ^2 /NDF:3042.2/15
 Out: 13.206 $\pm$ 0.089 χ^2 /NDF:2173.6/16
 All: 13.233 $\pm$ 0.063 χ^2 /NDF: 5216.0/32

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.232+/-0.119 χ^2/NDF : 876.7/16

Left Out: 10.609+/-0.064 χ^2/NDF :1780.0/16

Right Out: 11.100+/-0.116 χ^2/NDF : 817.8/18

Left In: 10.437+/-0.065 χ^2/NDF :1723.9/15

Left: 10.524+/-0.046 χ^2/NDF : 3507.5/32

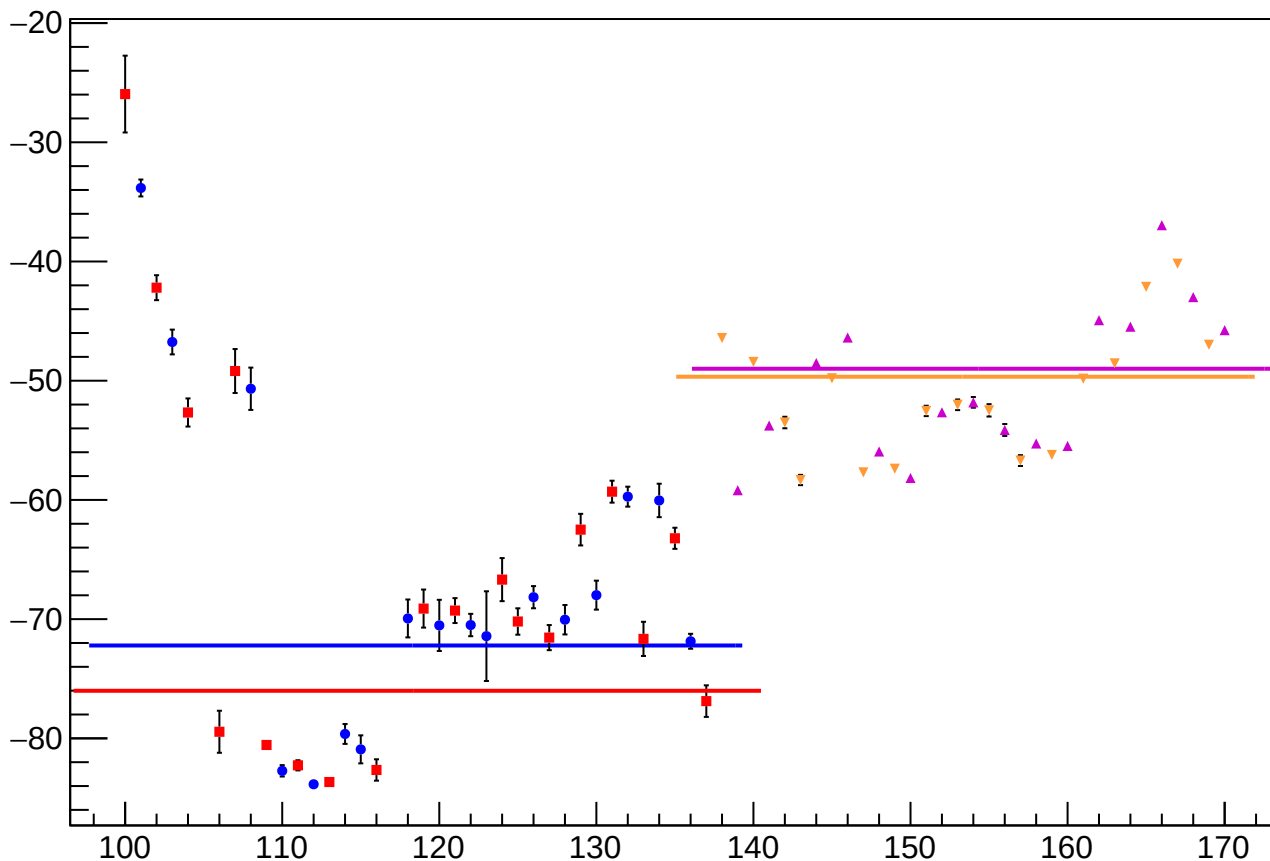
Right: 10.677+/-0.083 χ^2/NDF : 1721.6/35

In: 10.390+/-0.057 χ^2/NDF :2602.9/32

Out: 10.724+/-0.056 χ^2/NDF :2611.5/35

All: 10.560+/-0.040 χ^2/NDF : 5231.7/68

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -72.211 ± 0.198 χ^2/NDF : 5566.2/16

Left Out: -49.666 ± 0.089 χ^2/NDF : 3756.1/16

Right Out: -76.009 ± 0.181 χ^2/NDF : 3463.3/18

Left In: -48.996 ± 0.088 χ^2/NDF : 4908.4/15

Left: -49.328 ± 0.063 χ^2/NDF : 8693.2/32

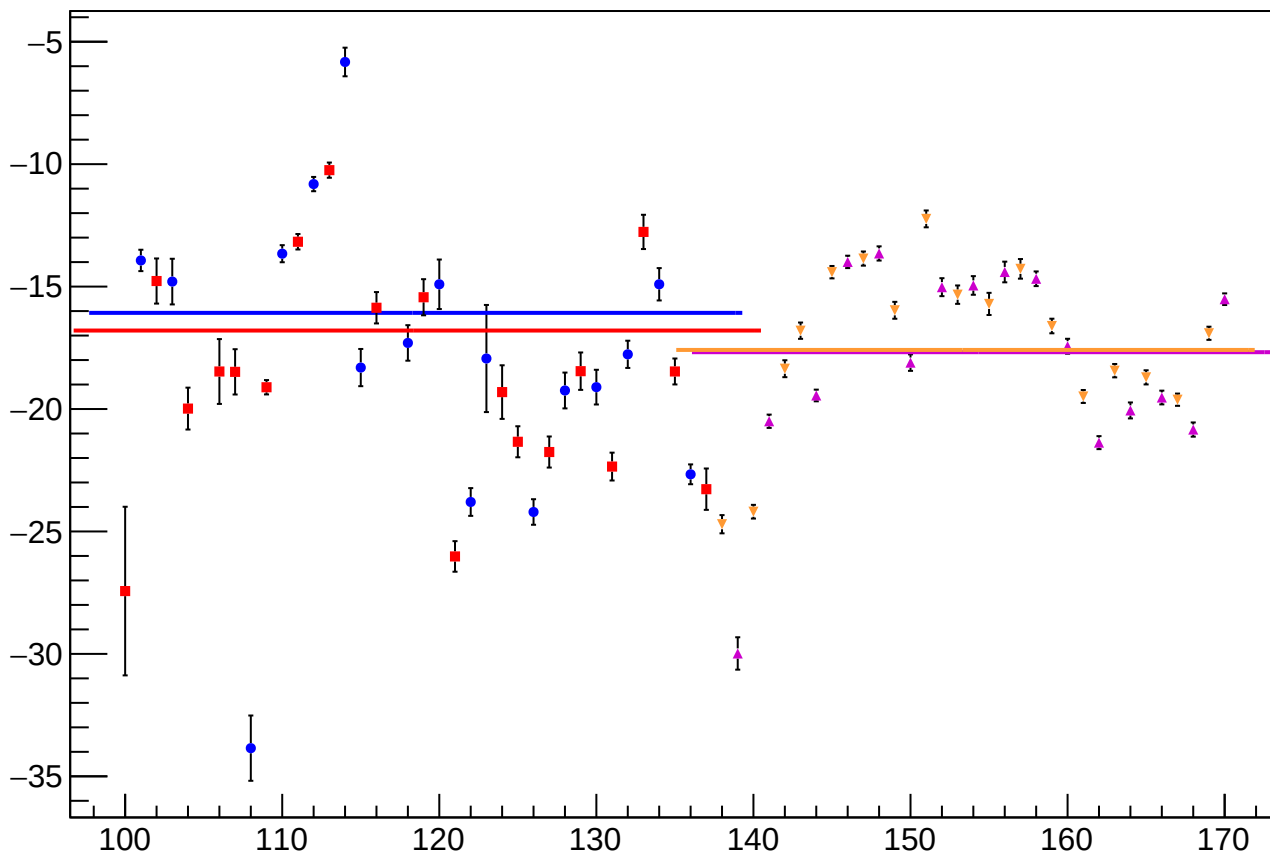
Right: -74.280 ± 0.134 χ^2/NDF : 9230.0/35

In: -52.831 ± 0.080 χ^2/NDF : 21951.6/32

Out: -54.771 ± 0.080 χ^2/NDF : 24299.9/35

All: -53.811 ± 0.057 χ^2/NDF : 46544.8/68

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.073 $\pm$ 0.133 χ^2 /NDF: 1640.5/16

Left Out: -17.587 $\pm$ 0.074 χ^2 /NDF:1801.1/16

Right Out: -16.795 $\pm$ 0.128 χ^2 /NDF: 1216.0/18

Left In: -17.679 $\pm$ 0.075 χ^2 /NDF:1671.1/15

Left: -17.633 $\pm$ 0.053 χ^2 /NDF: 3472.9/32

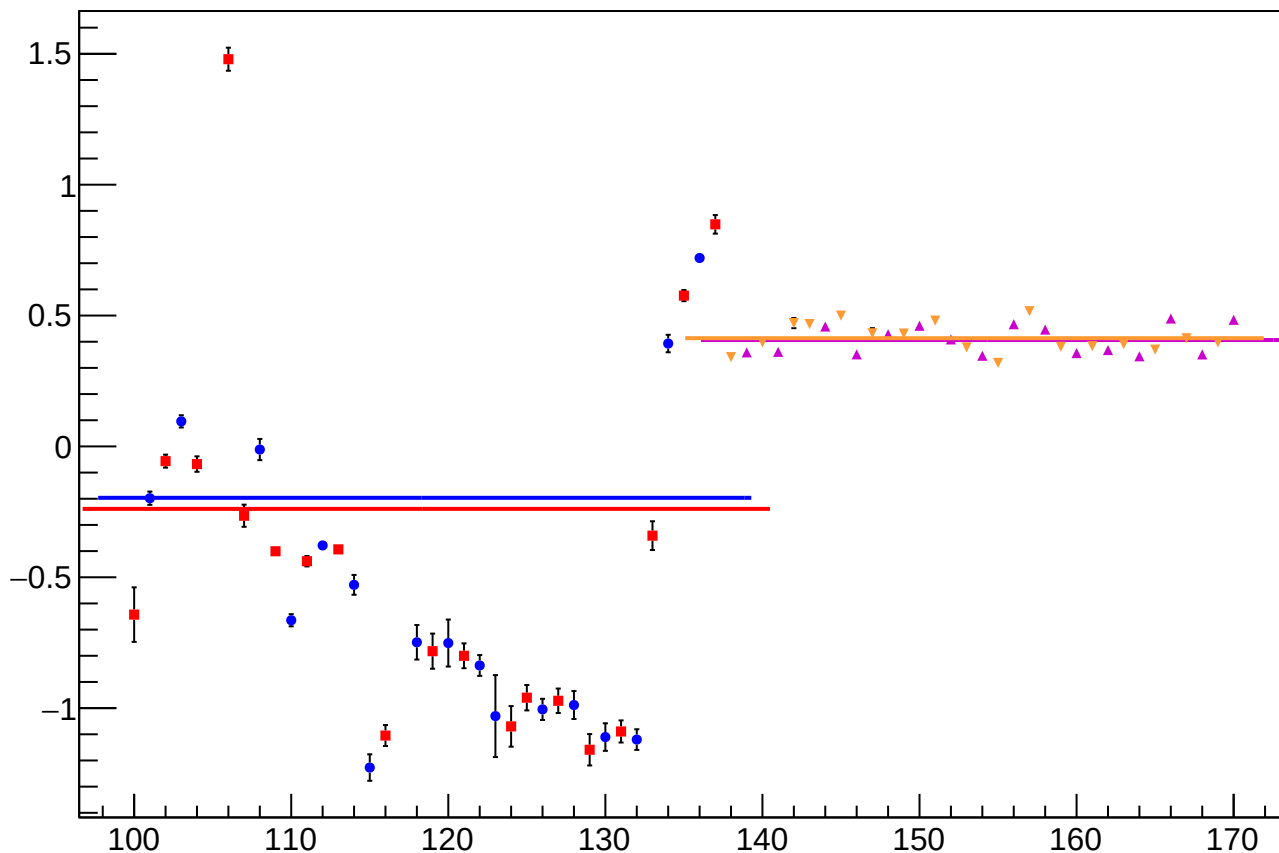
Right: -16.446 $\pm$ 0.092 χ^2 /NDF: 2871.9/35

In: -17.289 $\pm$ 0.065 χ^2 /NDF:3422.8/32

Out: -17.387 $\pm$ 0.064 χ^2 /NDF:3045.7/35

All: -17.339 $\pm$ 0.046 χ^2 /NDF: 6469.6/68

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.196 ± 0.008 χ^2/NDF : 6323.5/16

Left Out: 0.414 ± 0.003 χ^2/NDF : 221.8/16

Right Out: -0.239 ± 0.007 χ^2/NDF : 6188.6/18

Left In: 0.406 ± 0.003 χ^2/NDF : 253.1/15

Left: 0.410 ± 0.002 χ^2/NDF : 477.0/32

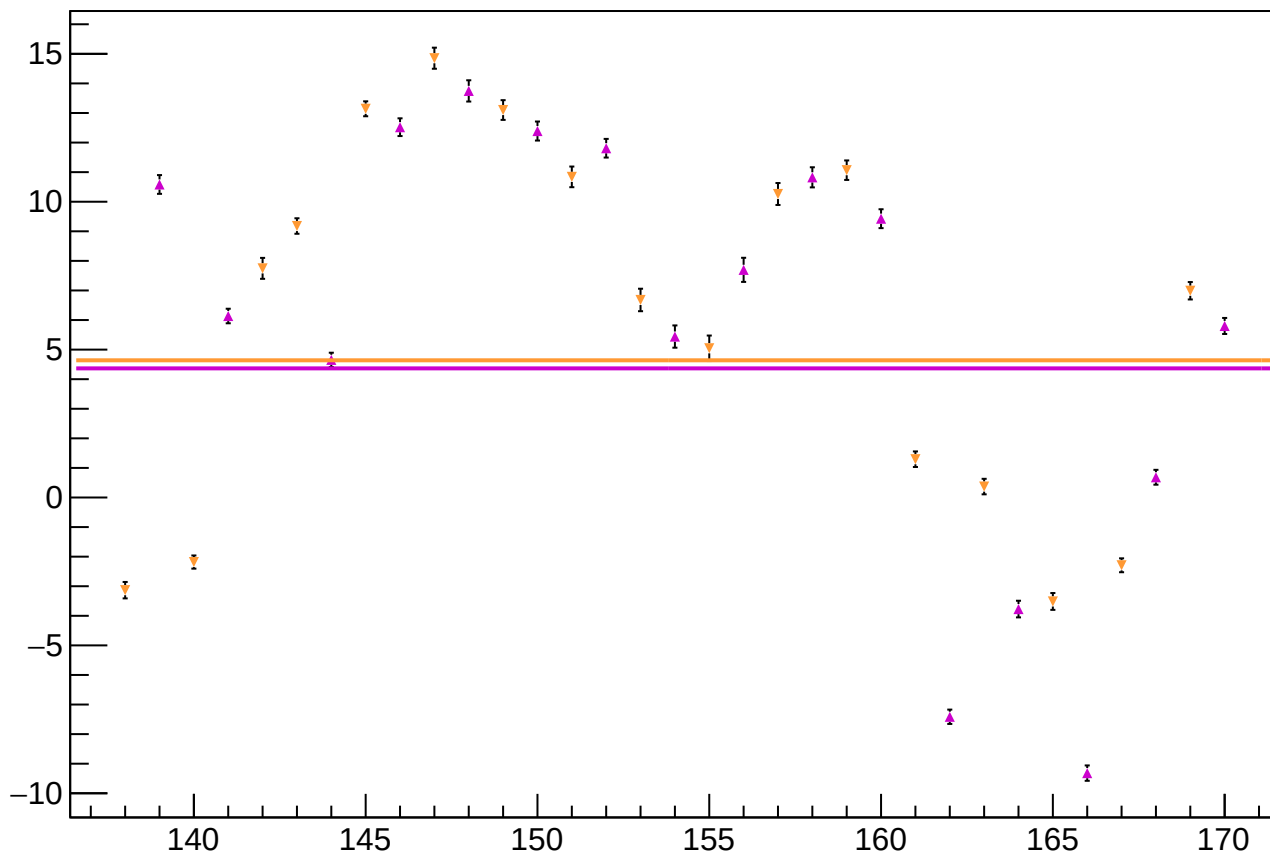
Right: -0.219 ± 0.005 χ^2/NDF : 12528.7/35

In: 0.301 ± 0.003 χ^2/NDF : 11841.5/32

Out: 0.288 ± 0.003 χ^2/NDF : 13080.7/35

All: 0.295 ± 0.002 χ^2/NDF : 24929.9/68

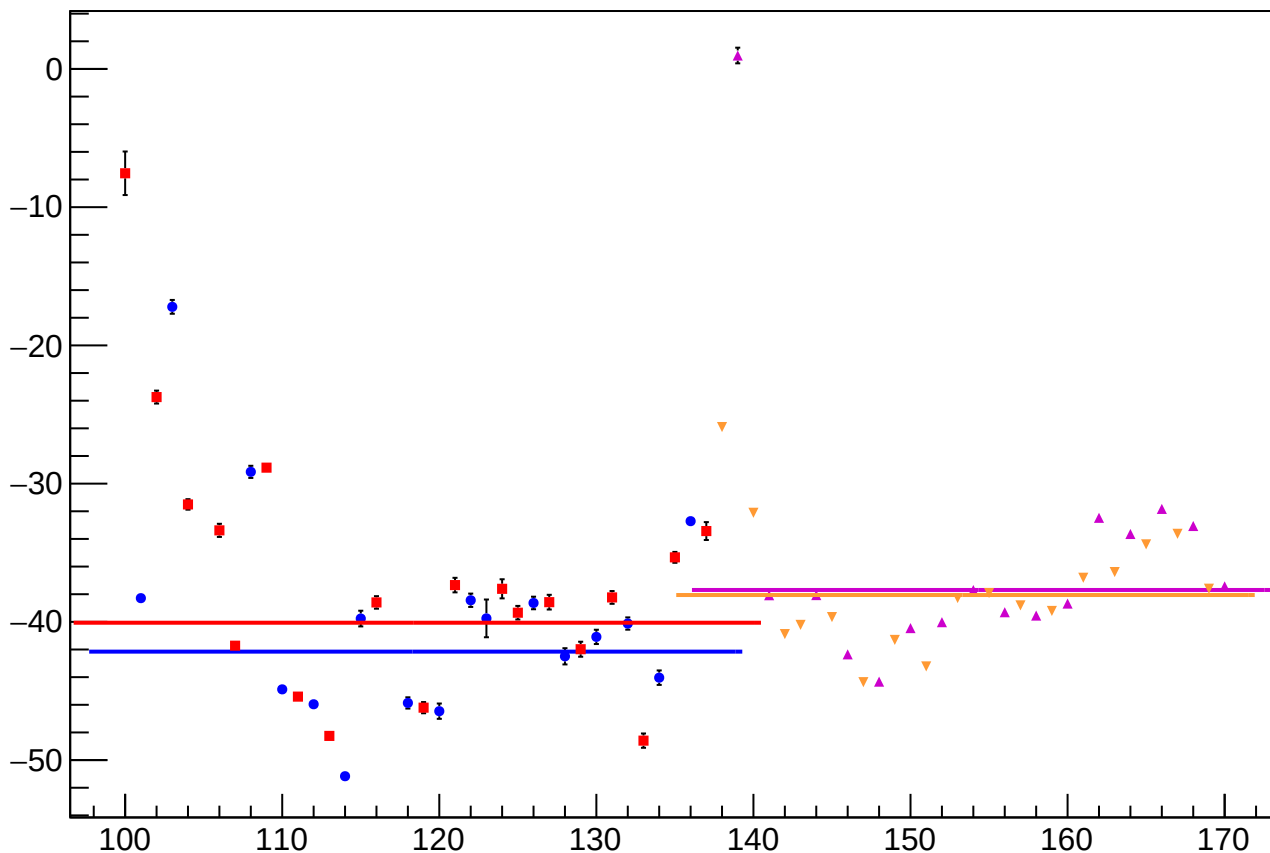
reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 4.638+/-0.071 χ^2/NDF : 7837.2/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 4.365+/-0.073 χ^2/NDF : 9938.7/15

Left: 4.505+/-0.051 χ^2/NDF : 17783.1/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 4.365+/-0.073 χ^2/NDF : 9938.7/15
 Out: 4.638+/-0.071 χ^2/NDF : 7837.2/16
 All: 4.505+/-0.051 χ^2/NDF : 17783.1/32

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -42.153 ± 0.078 χ^2/NDF : 6557.8/16

Left Out: -38.058 ± 0.052 χ^2/NDF : 6583.2/16

Right Out: -40.062 ± 0.073 χ^2/NDF : 11322.2/18

Left In: -37.693 ± 0.054 χ^2/NDF : 9214.1/15

Left: -37.883 ± 0.037 χ^2/NDF : 15821.5/32

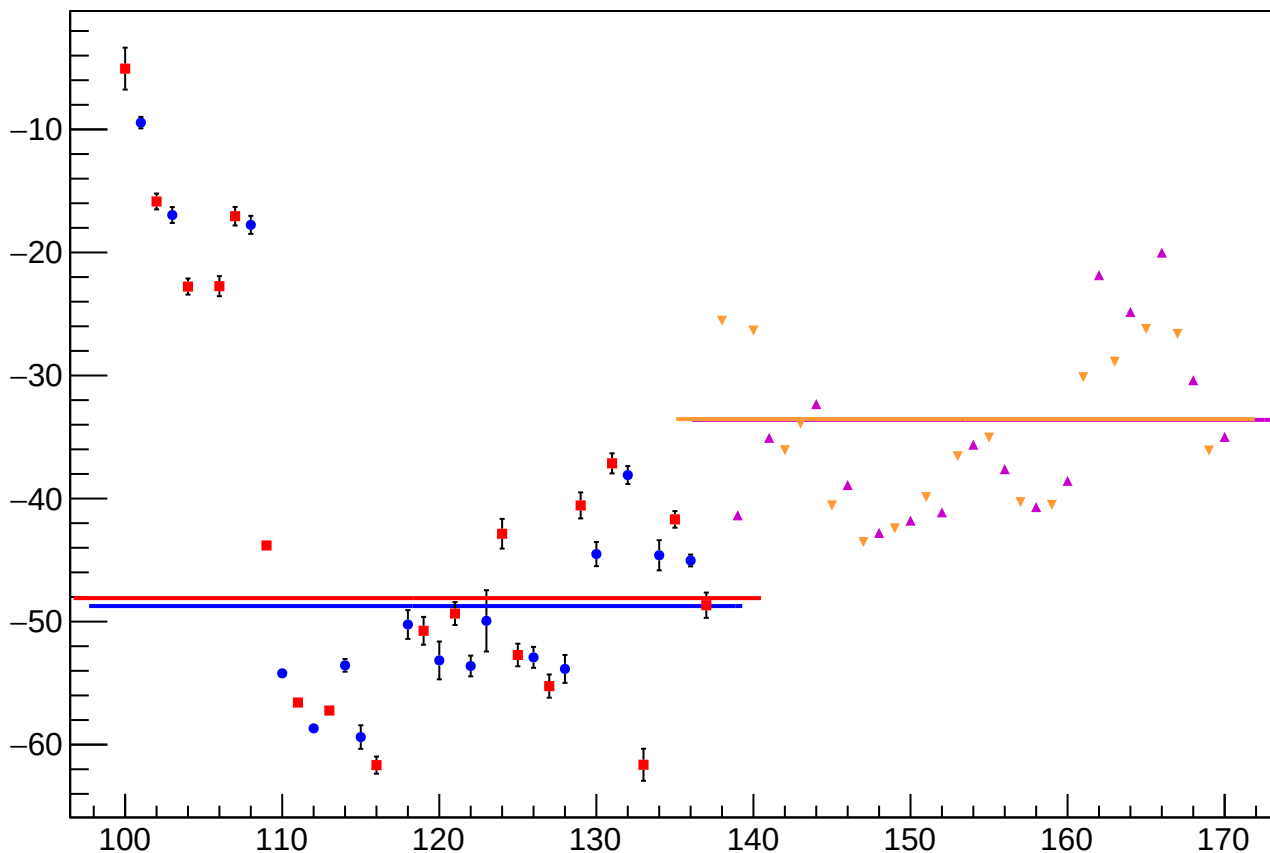
Right: -41.035 ± 0.053 χ^2/NDF : 18264.1/35

In: -39.122 ± 0.044 χ^2/NDF : 17993.0/32

Out: -38.727 ± 0.042 χ^2/NDF : 18410.6/35

All: -38.915 ± 0.030 χ^2/NDF : 36445.6/68

reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -48.737 ± 0.125 $\chi^2/\text{NDF}: 14658.1/16$

Left Out: -33.540 ± 0.071 $\chi^2/\text{NDF}: 7526.0/16$

Right Out: -48.092 ± 0.107 $\chi^2/\text{NDF}: 11733.2/18$

Left In: -33.604 ± 0.072 $\chi^2/\text{NDF}: 10328.8/15$

Left: -33.572 ± 0.051 $\chi^2/\text{NDF}: 17855.2/32$

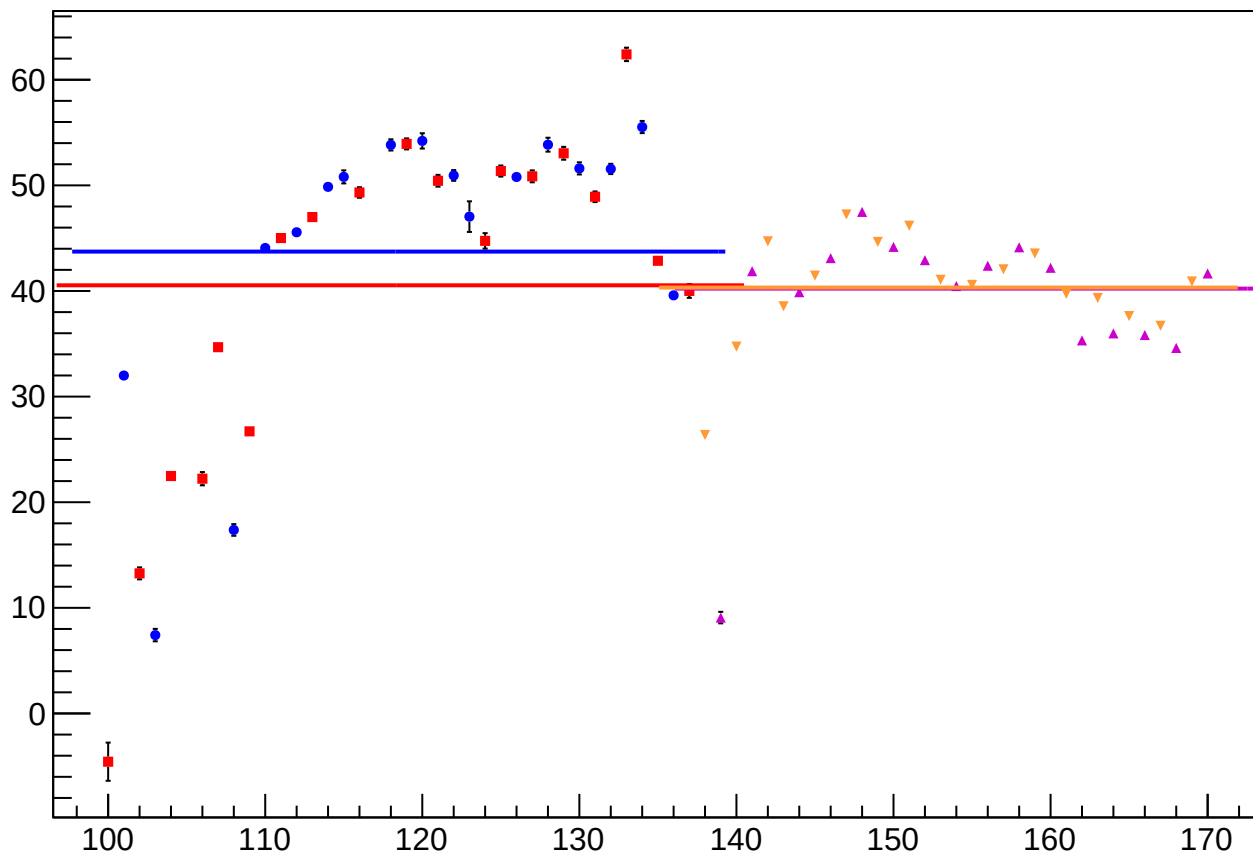
Right: -48.367 ± 0.081 $\chi^2/\text{NDF}: 26406.8/35$

In: -37.398 ± 0.062 $\chi^2/\text{NDF}: 36045.6/32$

Out: -37.997 ± 0.059 $\chi^2/\text{NDF}: 32033.8/35$

All: -37.712 ± 0.043 $\chi^2/\text{NDF}: 68127.7/68$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 43.731 $\pm$ 0.087 χ^2 /NDF: 10567.7/16

Left Out: 40.325 $\pm$ 0.060 χ^2 /NDF: 5308.2/16

Right Out: 40.537 $\pm$ 0.080 χ^2 /NDF: 17601.3/18

Left In: 40.225 $\pm$ 0.062 χ^2 /NDF: 6817.0/15

Left: 40.277 $\pm$ 0.043 χ^2 /NDF: 12126.6/32

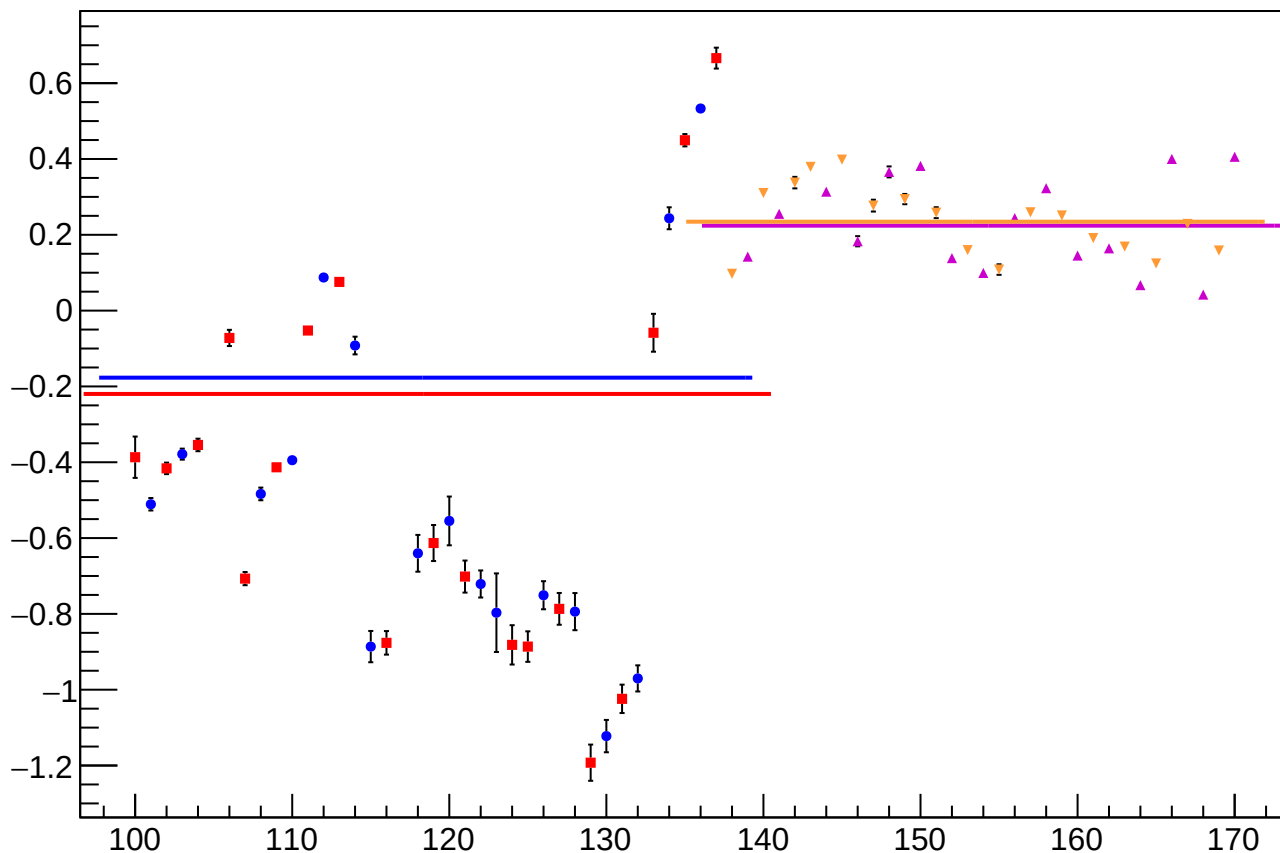
Right: 42.007 $\pm$ 0.059 χ^2 /NDF: 28898.9/35

In: 41.397 $\pm$ 0.050 χ^2 /NDF: 18469.4/32

Out: 40.401 $\pm$ 0.048 χ^2 /NDF: 22914.1/35

All: 40.875 $\pm$ 0.035 χ^2 /NDF: 41590.1/68

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.177 ± 0.005 χ^2/NDF : 7364.7/16

Left Out: 0.235 ± 0.003 χ^2/NDF : 994.4/16

Right Out: -0.220 ± 0.004 χ^2/NDF : 7430.4/18

Left In: 0.224 ± 0.003 χ^2/NDF : 1812.9/15

Left: 0.229 ± 0.002 χ^2/NDF : 2814.2/32

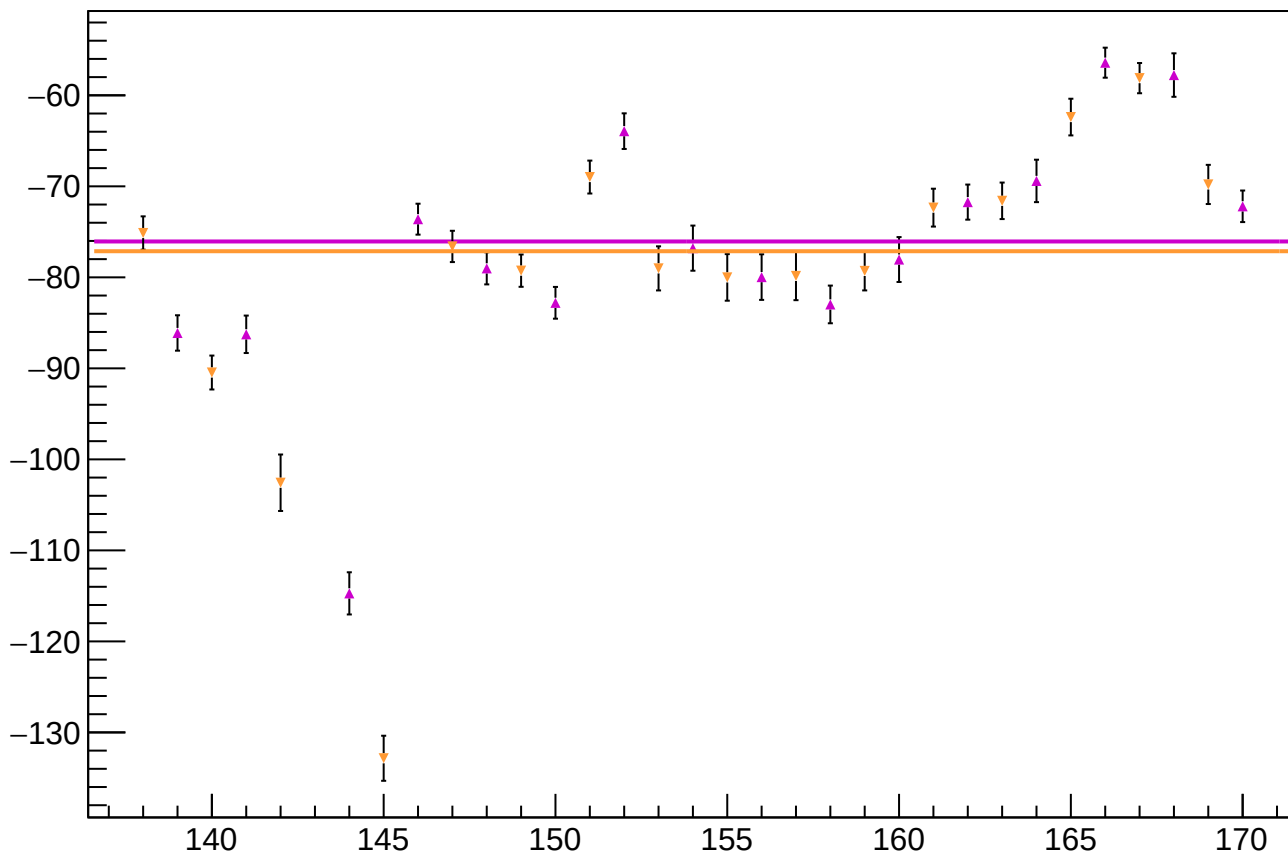
Right: -0.201 ± 0.003 χ^2/NDF : 14839.1/35

In: 0.122 ± 0.002 χ^2/NDF : 14284.9/32

Out: 0.099 ± 0.002 χ^2/NDF : 16244.8/35

All: 0.110 ± 0.002 χ^2/NDF : 30574.4/68

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



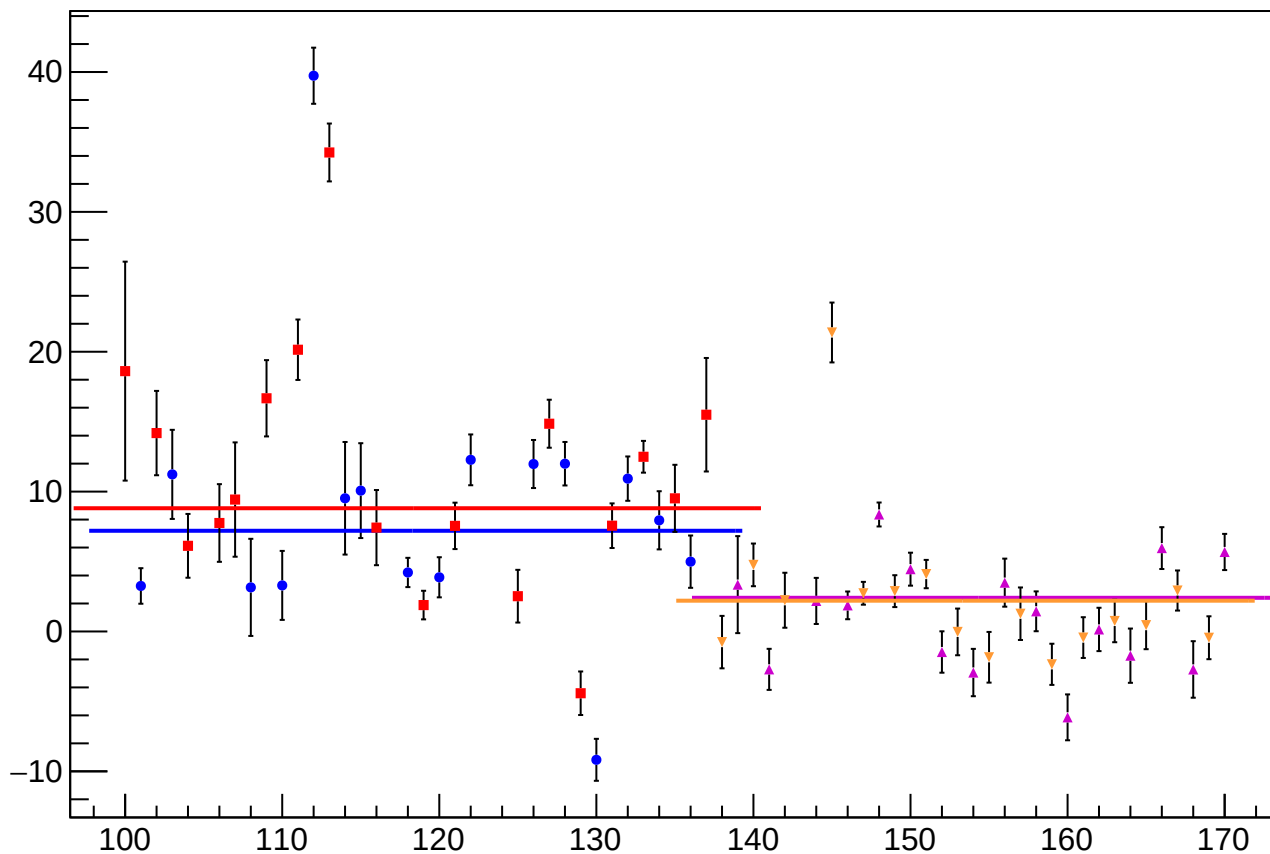
Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -77.130+/-0.513 χ^2/NDF :861.0/15
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -76.058+/-0.500 χ^2/NDF :620.6/15

Left: -76.581+/-0.358 χ^2/NDF : 1483.8/31
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -76.058+/-0.500 χ^2/NDF :620.6/15
 Out: -77.130+/-0.513 χ^2/NDF :861.0/15

All: -76.581+/-0.358 χ^2/NDF : 1483.8/31

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.199 ± 0.440 $\chi^2/\text{NDF}: 443.8/15$

Left Out: 2.200 ± 0.353 $\chi^2/\text{NDF}: 115.0/15$

Right Out: 8.810 ± 0.448 $\chi^2/\text{NDF}: 349.7/17$

Left In: 2.407 ± 0.354 $\chi^2/\text{NDF}: 134.0/15$

Left: 2.304 ± 0.250 $\chi^2/\text{NDF}: 249.1/31$

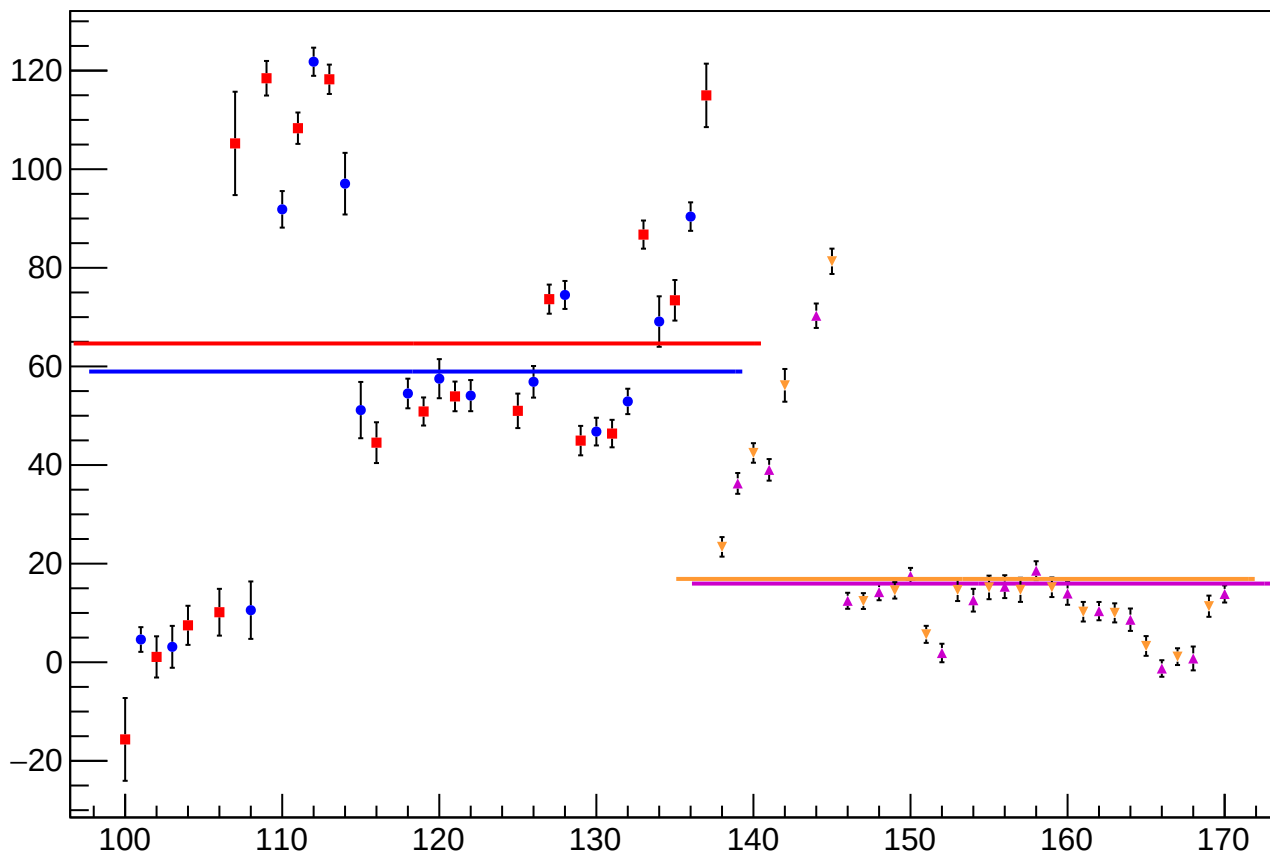
Right: 7.990 ± 0.314 $\chi^2/\text{NDF}: 800.1/33$

In: 4.290 ± 0.276 $\chi^2/\text{NDF}: 649.9/31$

Out: 4.738 ± 0.277 $\chi^2/\text{NDF}: 598.9/33$

All: 4.512 ± 0.195 $\chi^2/\text{NDF}: 1250.1/65$

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 58.962 $\pm$ 0.837 χ^2 /NDF: 1496.5/15

Left Out: 16.902 $\pm$ 0.502 χ^2 /NDF:1162.9/15

Right Out: 64.655 $\pm$ 0.840 χ^2 /NDF: 1721.8/17

Left In: 15.957 $\pm$ 0.489 χ^2 /NDF:917.8/15

Left: 16.417 $\pm$ 0.350 χ^2 /NDF: 2082.5/31

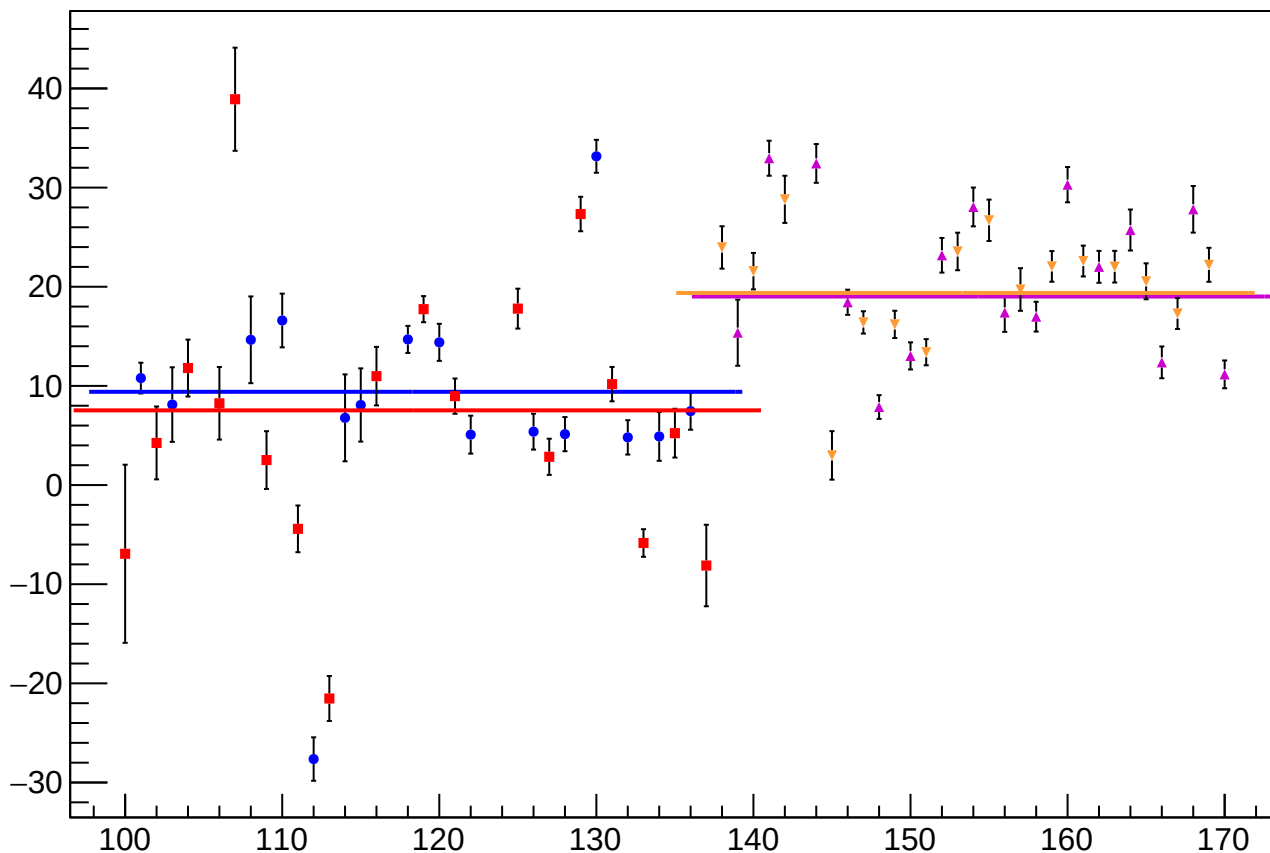
Right: 61.798 $\pm$ 0.593 χ^2 /NDF: 3241.4/33

In: 26.905 $\pm$ 0.422 χ^2 /NDF:4382.4/31

Out: 29.482 $\pm$ 0.431 χ^2 /NDF:5265.0/33

All: 28.167 $\pm$ 0.302 χ^2 /NDF: 9665.6/65

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 9.405 ± 0.507 $\chi^2/\text{NDF}: 549.5/15$

Left Out: 19.377 ± 0.417 $\chi^2/\text{NDF}: 131.7/15$

Right Out: 7.533 ± 0.515 $\chi^2/\text{NDF}: 569.8/17$

Left In: 19.015 ± 0.414 $\chi^2/\text{NDF}: 363.0/15$

Left: 19.195 ± 0.294 $\chi^2/\text{NDF}: 495.1/31$

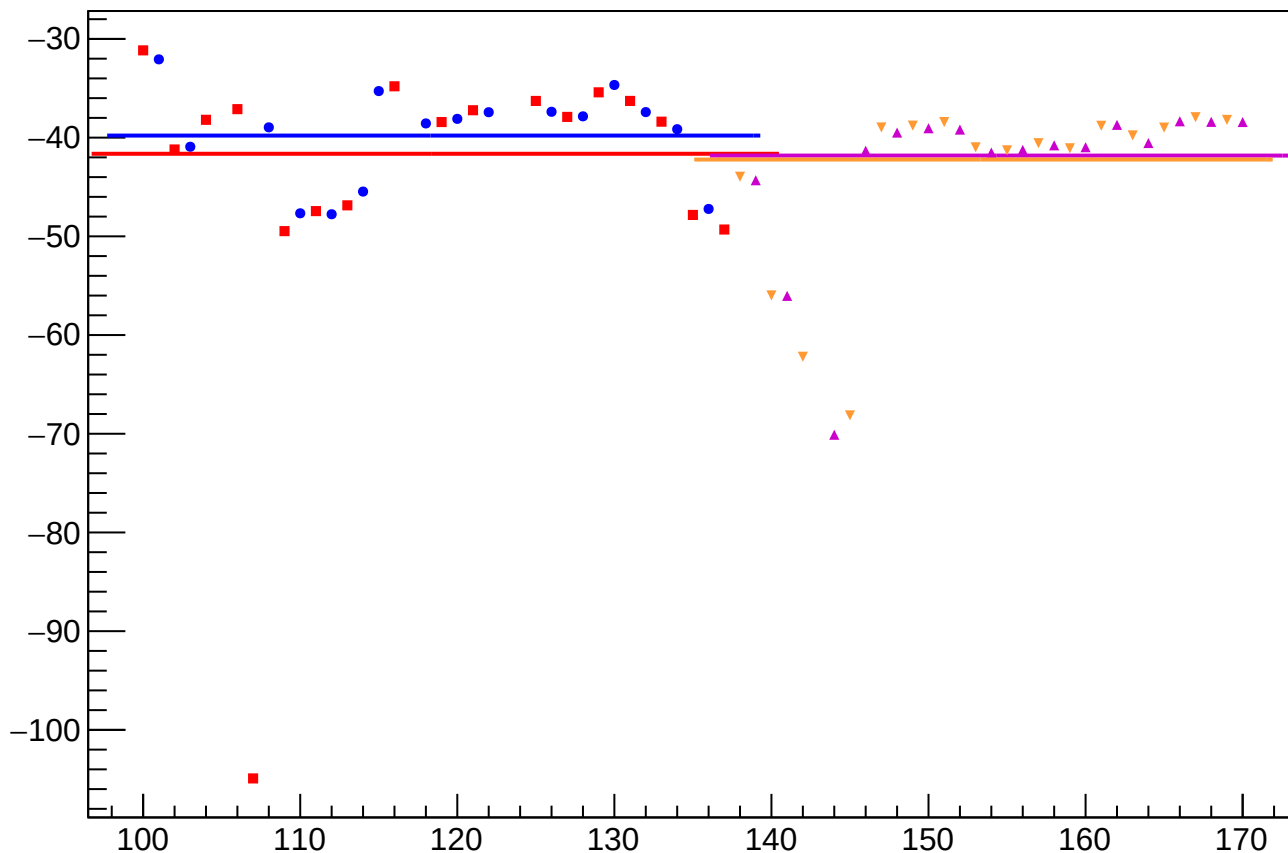
Right: 8.484 ± 0.361 $\chi^2/\text{NDF}: 1126.0/33$

In: 15.168 ± 0.321 $\chi^2/\text{NDF}: 1128.2/31$

Out: 14.689 ± 0.324 $\chi^2/\text{NDF}: 1021.3/33$

All: 14.931 ± 0.228 $\chi^2/\text{NDF}: 2150.6/65$

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -39.791 ± 0.031 χ^2/NDF : 26138.6/15

Left Out: -42.221 ± 0.020 χ^2/NDF : 131896.9/15

Right Out: -41.635 ± 0.031 χ^2/NDF : 94393.1/17

Left In: -41.818 ± 0.019 χ^2/NDF : 107361.9/15

Left: -42.013 ± 0.014 χ^2/NDF : 239468.9/31

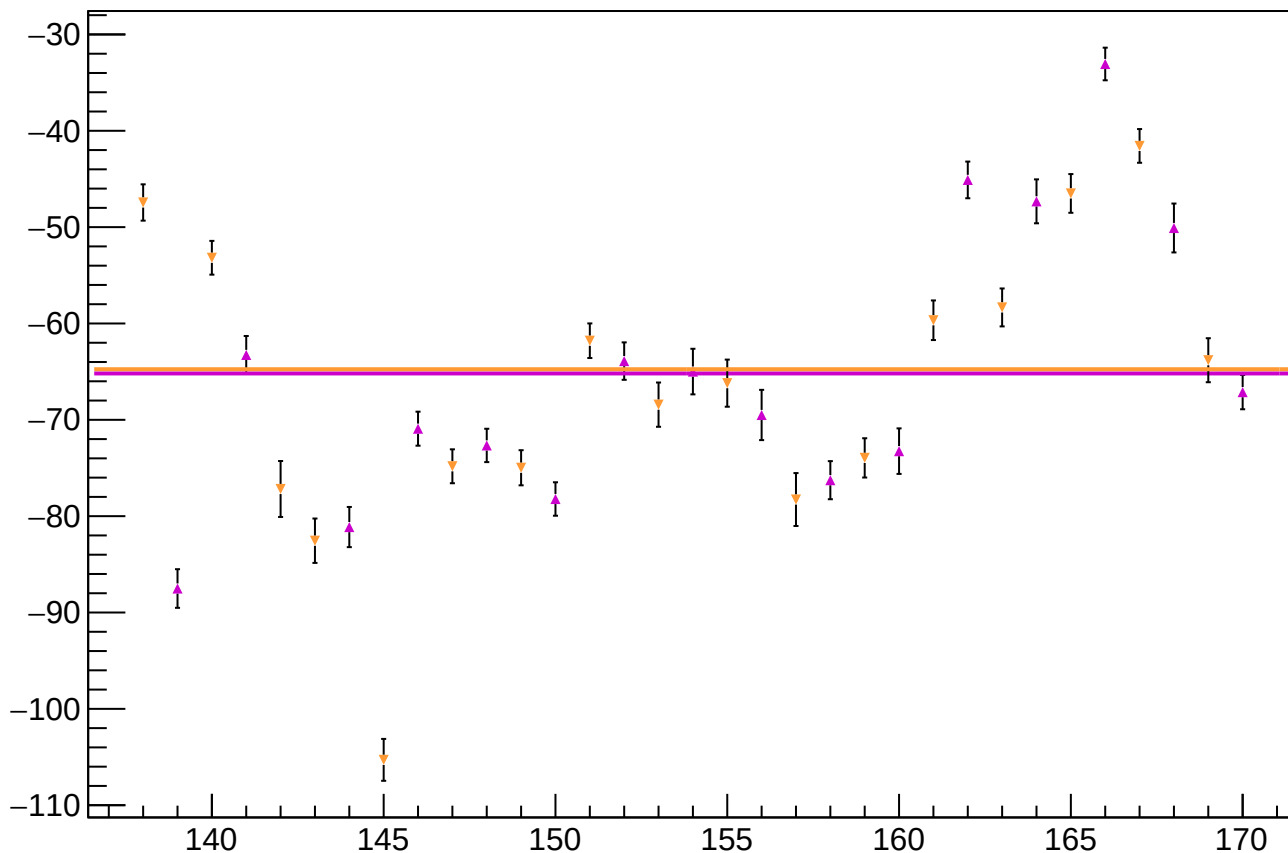
Right: -40.714 ± 0.022 χ^2/NDF : 122277.1/33

In: -41.256 ± 0.016 χ^2/NDF : 136546.5/31

Out: -42.051 ± 0.017 χ^2/NDF : 226539.5/33

All: -41.644 ± 0.012 χ^2/NDF : 364226.6/65

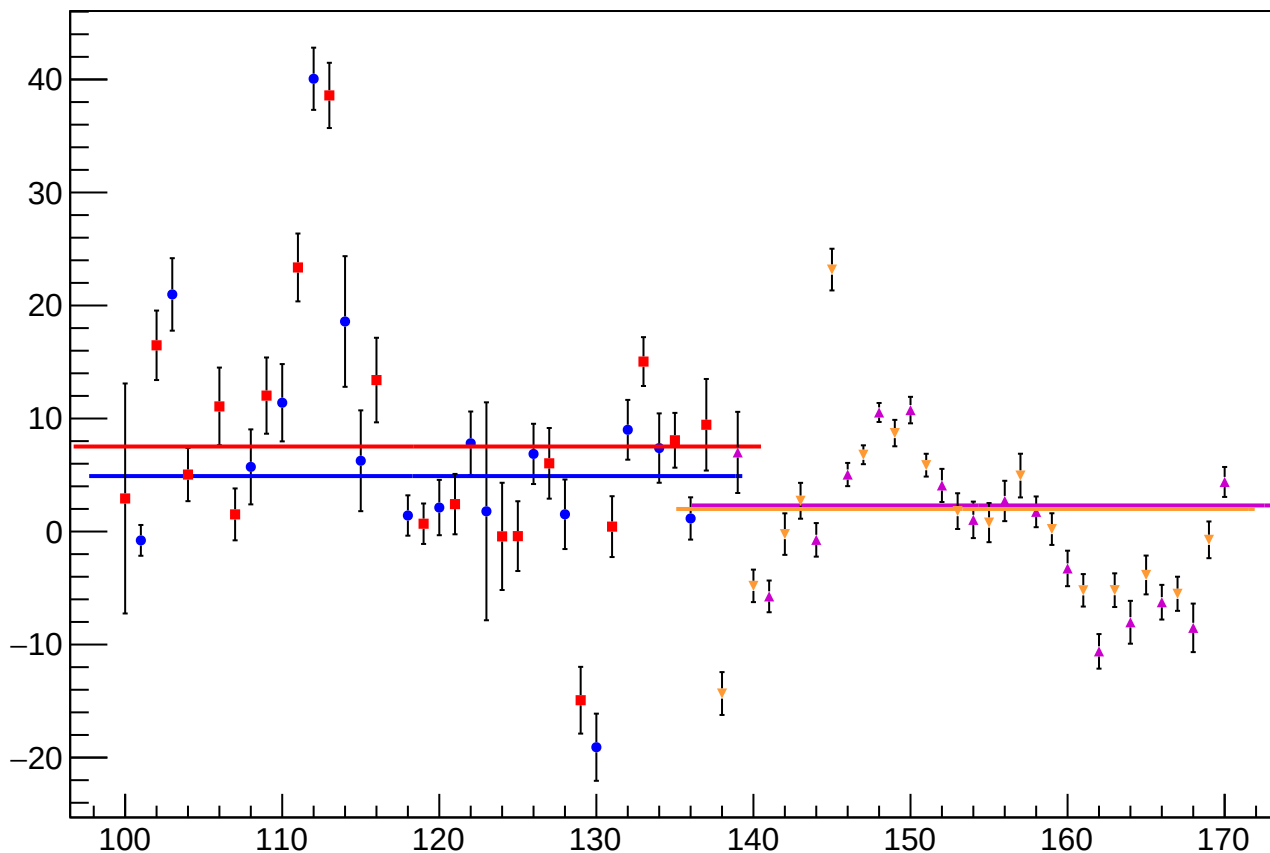
reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -64.749+/-0.497 χ^2/NDF :943.2/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -65.186+/-0.498 χ^2/NDF :884.4/15

Left: -64.967+/-0.352 χ^2/NDF : 1828.0/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -65.186+/-0.498 χ^2/NDF :884.4/15
 Out: -64.749+/-0.497 χ^2/NDF :943.2/16
 All: -64.967+/-0.352 χ^2/NDF : 1828.0/32

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.907 $\pm$ 0.628 χ^2 /NDF: 295.4/16

Left Out: 1.997 $\pm$ 0.343 χ^2 /NDF:402.8/16

Right Out: 7.523 $\pm$ 0.651 χ^2 /NDF: 270.6/18

Left In: 2.307 $\pm$ 0.350 χ^2 /NDF:368.6/15

Left: 2.149 $\pm$ 0.245 χ^2 /NDF: 771.9/32

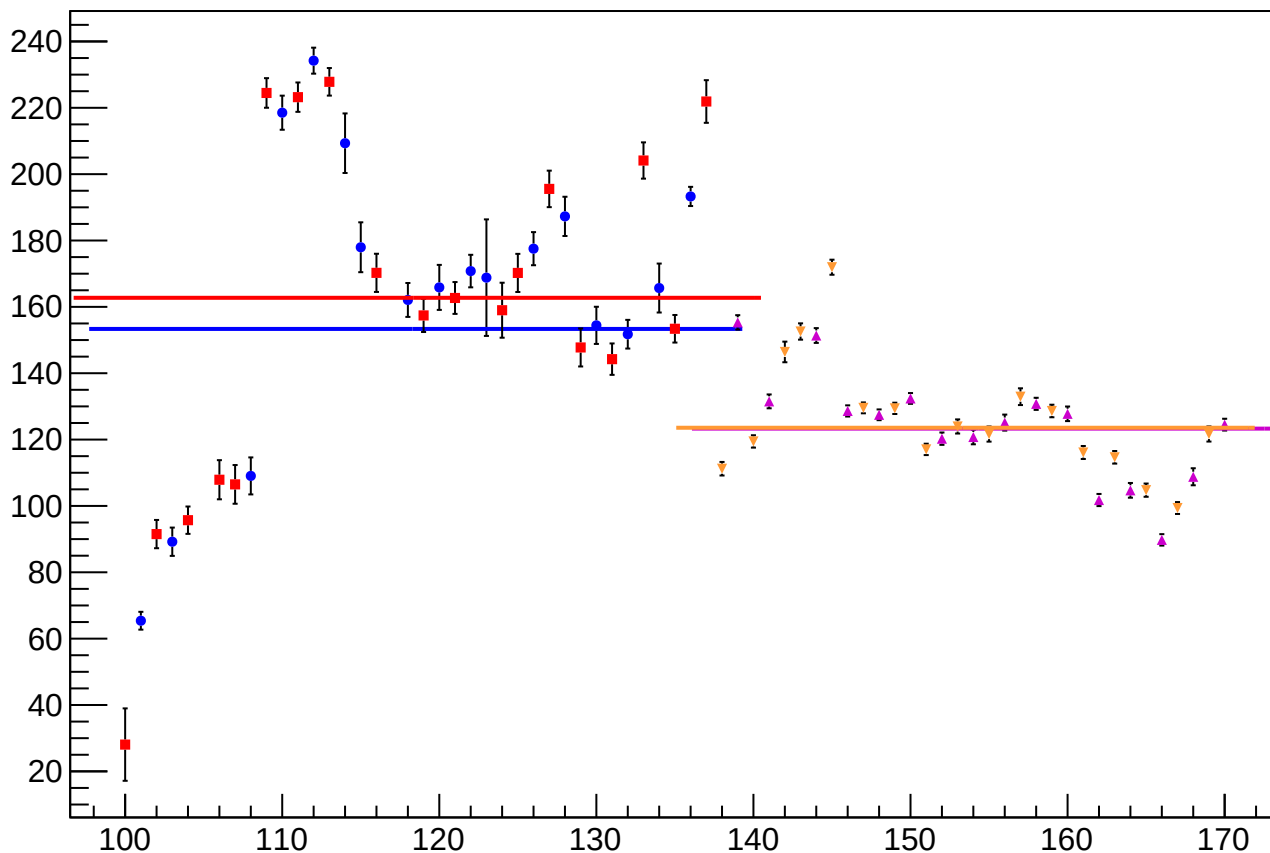
Right: 6.168 $\pm$ 0.452 χ^2 /NDF: 574.4/35

In: 2.924 $\pm$ 0.306 χ^2 /NDF:677.2/32

Out: 3.199 $\pm$ 0.303 χ^2 /NDF:729.9/35

All: 3.063 $\pm$ 0.215 χ^2 /NDF: 1407.4/68

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 153.350 $\pm$ 1.150 χ^2 /NDF: 2268.3/16

Left Out: 123.566 $\pm$ 0.489 χ^2 /NDF:1058.6/16

Right Out: 162.734 $\pm$ 1.177 χ^2 /NDF: 1708.8/18

Left In: 123.302 $\pm$ 0.486 χ^2 /NDF:1083.2/15

Left: 123.433 $\pm$ 0.345 χ^2 /NDF: 2141.9/32

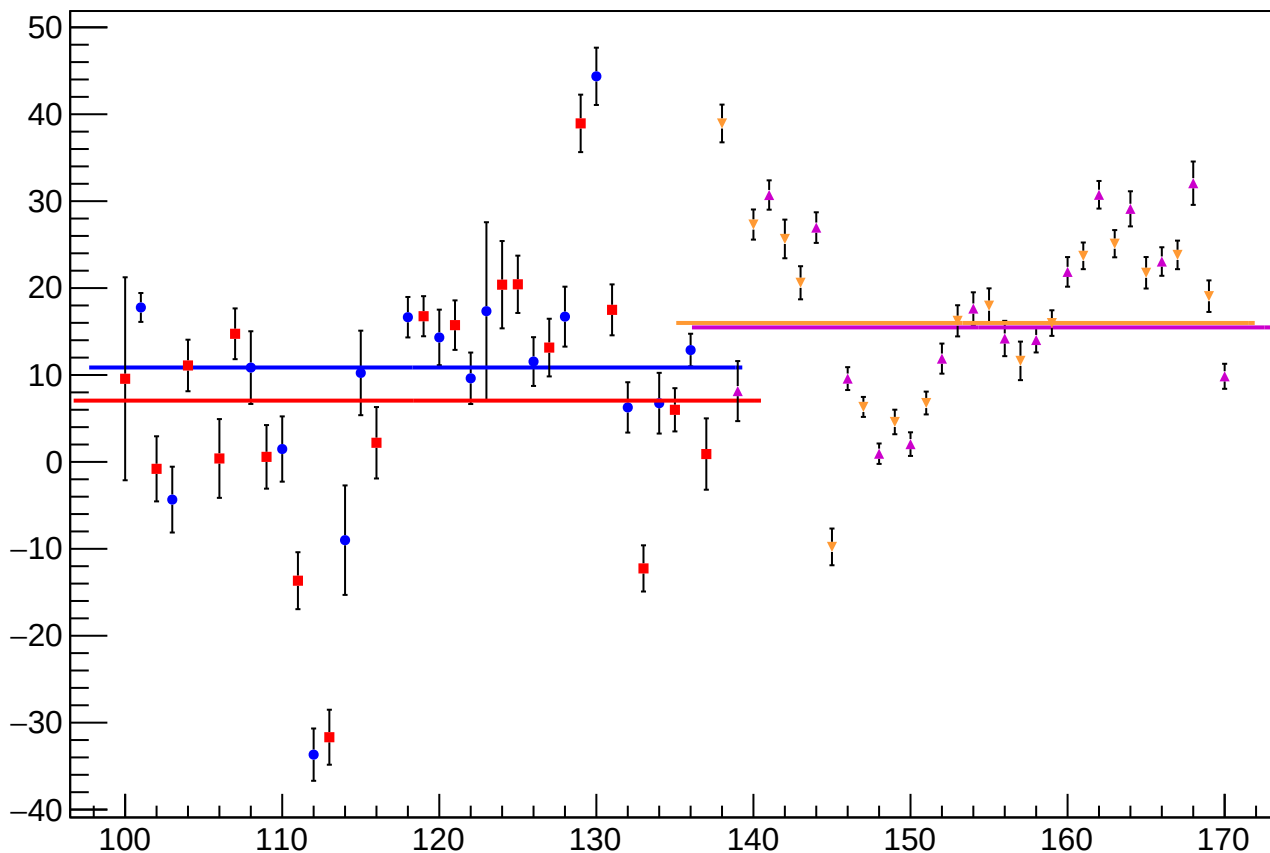
Right: 157.935 $\pm$ 0.823 χ^2 /NDF: 4009.6/35

In: 127.857 $\pm$ 0.448 χ^2 /NDF:3930.5/32

Out: 129.330 $\pm$ 0.451 χ^2 /NDF:3712.0/35

All: 128.587 $\pm$ 0.318 χ^2 /NDF: 7647.8/68

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.864 $\pm$ 0.719 χ^2 /NDF: 387.9/16

Left Out: 15.988 $\pm$ 0.404 χ^2 /NDF:612.7/16

Right Out: 7.052 $\pm$ 0.748 χ^2 /NDF: 424.7/18

Left In: 15.474 $\pm$ 0.410 χ^2 /NDF:638.8/15

Left: 15.735 $\pm$ 0.288 χ^2 /NDF: 1252.3/32

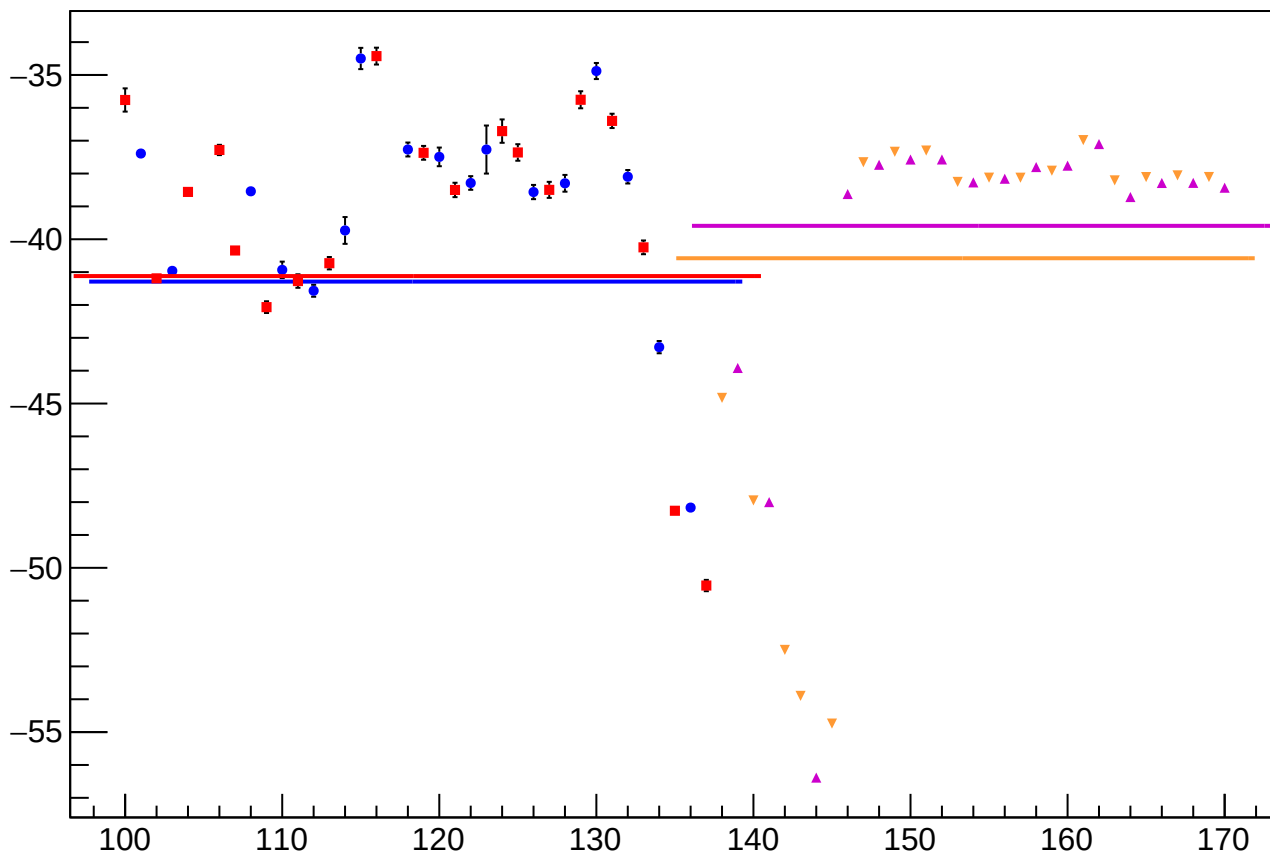
Right: 9.031 $\pm$ 0.518 χ^2 /NDF: 826.1/35

In: 14.344 $\pm$ 0.356 χ^2 /NDF:1057.7/32

Out: 13.967 $\pm$ 0.355 χ^2 /NDF:1148.0/35

All: 14.155 $\pm$ 0.252 χ^2 /NDF: 2206.3/68

reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.289 $\pm$ 0.039 χ^2 /NDF: 12509.1/16

Left Out: -40.578 $\pm$ 0.019 χ^2 /NDF: 79127.4/16

Right Out: -41.120 $\pm$ 0.039 χ^2 /NDF: 12110.6/18

Left In: -39.592 $\pm$ 0.019 χ^2 /NDF: 49127.2/15

Left: -40.080 $\pm$ 0.014 χ^2 /NDF: 129556.9/32

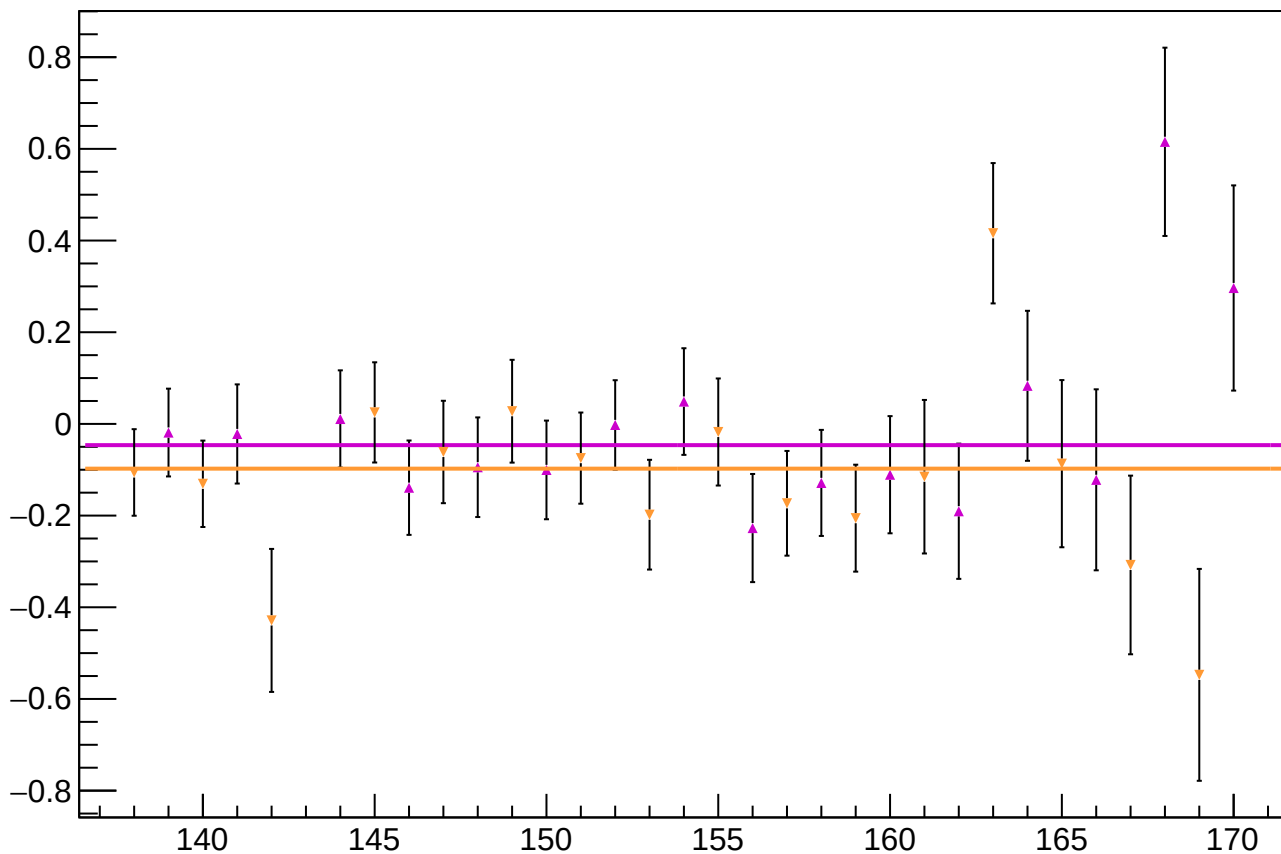
Right: -41.205 $\pm$ 0.027 χ^2 /NDF: 24629.1/35

In: -39.929 $\pm$ 0.017 χ^2 /NDF: 63184.5/32

Out: -40.687 $\pm$ 0.017 χ^2 /NDF: 91395.1/35

All: -40.305 $\pm$ 0.012 χ^2 /NDF: 155542.4/68

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: -0.098 $\pm$ 0.031 χ^2 /NDF: 26.0/15

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: -0.046 $\pm$ 0.030 χ^2 /NDF: 20.1/15

Left: -0.072 $\pm$ 0.022 χ^2 /NDF: 47.5/31

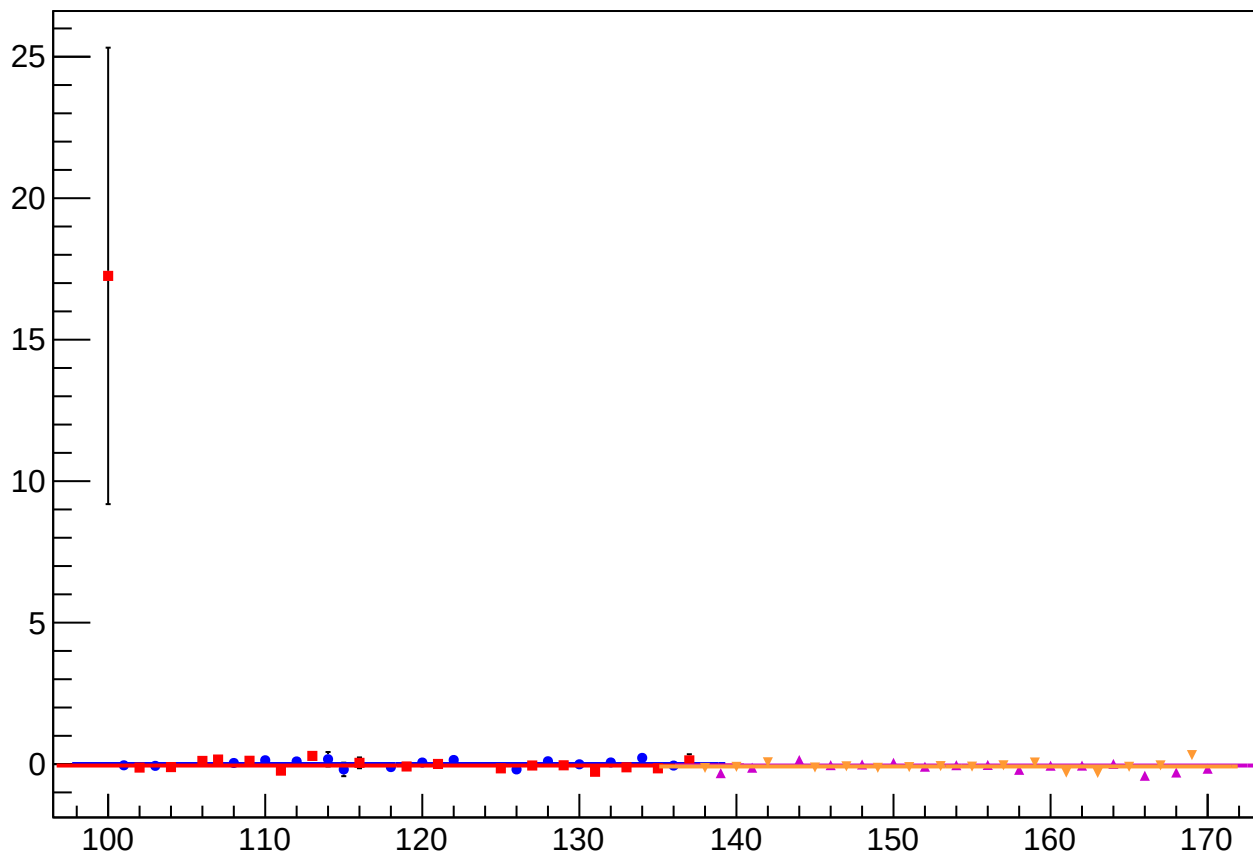
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: -0.046 $\pm$ 0.030 χ^2 /NDF: 20.1/15

Out: -0.098 $\pm$ 0.031 χ^2 /NDF: 26.0/15

All: -0.072 $\pm$ 0.022 χ^2 /NDF: 47.5/31

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.003 ± 0.029 χ^2/NDF : 12.4/15

Left Out: -0.083 ± 0.021 χ^2/NDF : 19.7/15

Right Out: -0.050 ± 0.029 χ^2/NDF : 25.6/17

Left In: -0.050 ± 0.021 χ^2/NDF : 23.0/15

Left: -0.066 ± 0.015 χ^2/NDF : 43.9/31

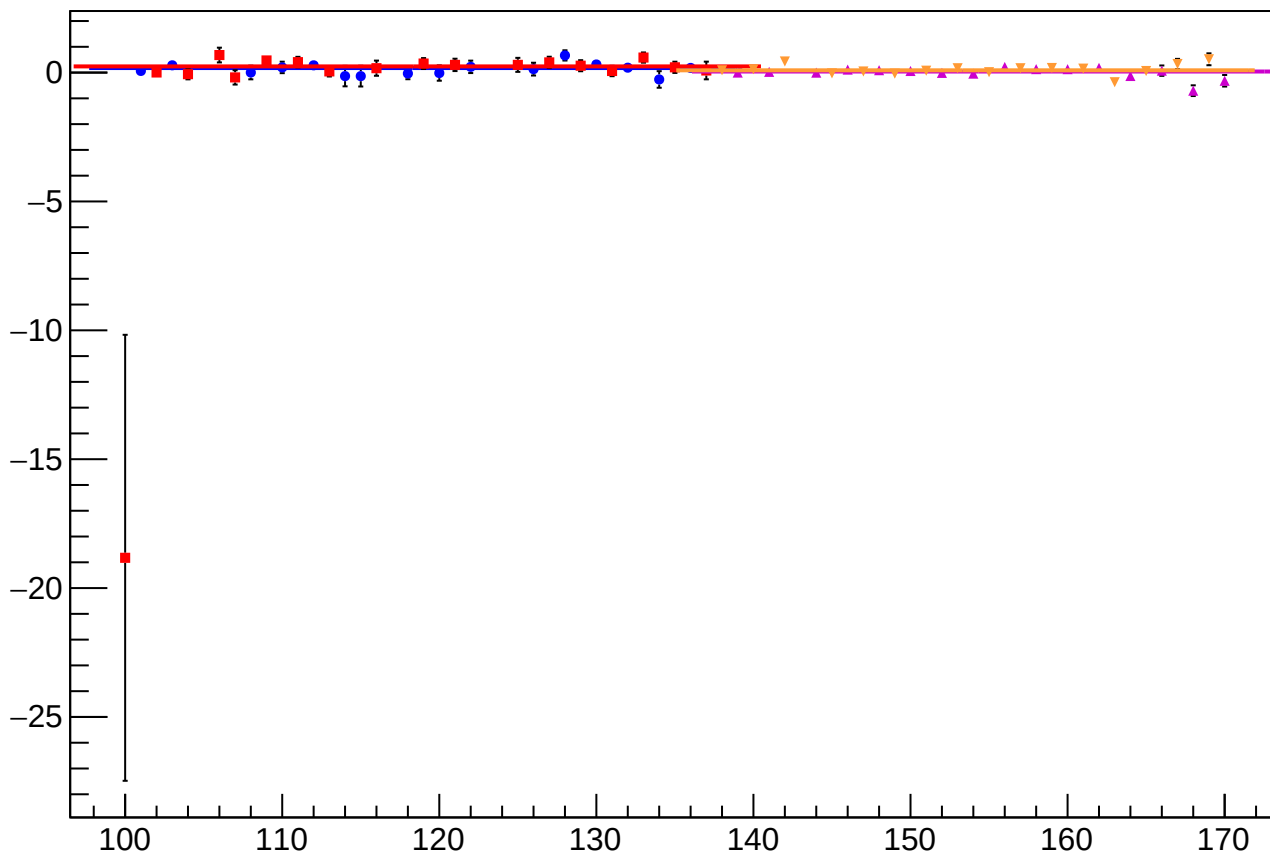
Right: -0.023 ± 0.020 χ^2/NDF : 39.7/33

In: -0.031 ± 0.017 χ^2/NDF : 37.6/31

Out: -0.072 ± 0.017 χ^2/NDF : 46.1/33

All: -0.051 ± 0.012 χ^2/NDF : 86.6/65

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.176+/-0.053 χ^2/NDF : 13.0/15

Left Out: 0.088+/-0.030 χ^2/NDF : 24.4/15

Right Out: 0.240+/-0.054 χ^2/NDF : 21.6/17

Left In: 0.041+/-0.030 χ^2/NDF : 23.6/15

Left: 0.064+/-0.021 χ^2/NDF : 49.2/31

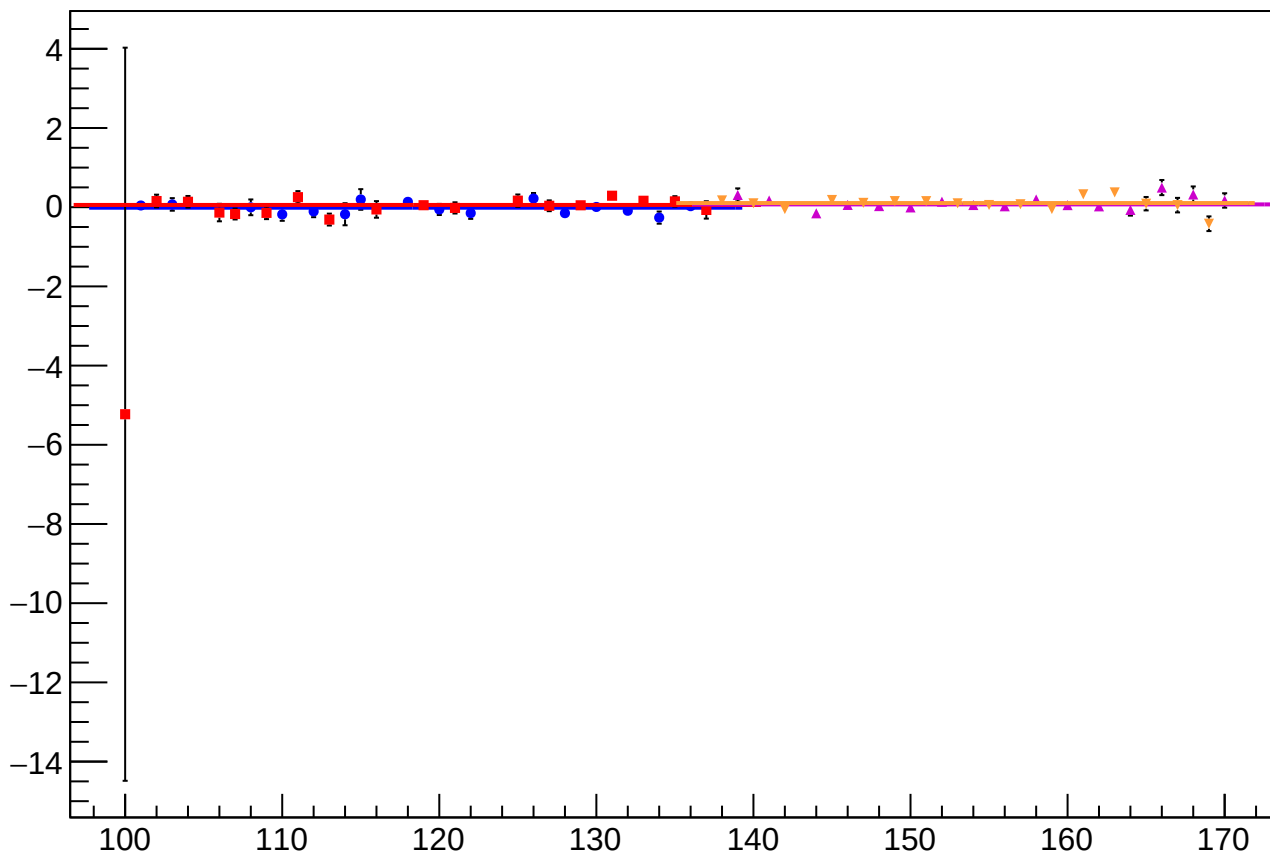
Right: 0.207+/-0.038 χ^2/NDF : 35.3/33

In: 0.073+/-0.026 χ^2/NDF : 41.6/31

Out: 0.124+/-0.026 χ^2/NDF : 52.0/33

All: 0.098+/-0.018 χ^2/NDF : 95.5/65

reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.013 ± 0.033 χ^2/NDF : 13.6/15

Left Out: 0.105 ± 0.025 χ^2/NDF : 22.7/15

Right Out: 0.057 ± 0.034 χ^2/NDF : 20.3/17

Left In: 0.070 ± 0.025 χ^2/NDF : 21.6/15

Left: 0.087 ± 0.018 χ^2/NDF : 45.2/31

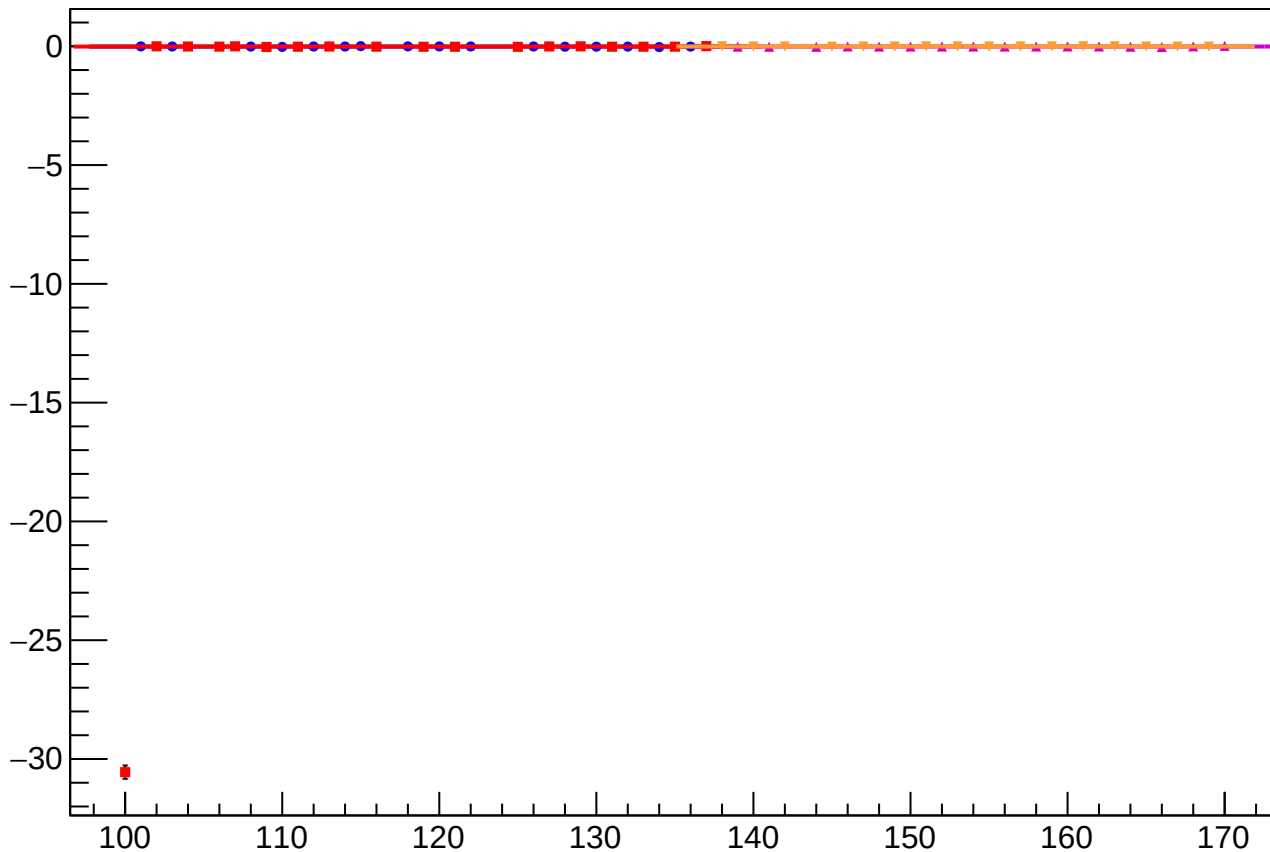
Right: 0.021 ± 0.024 χ^2/NDF : 36.2/33

In: 0.040 ± 0.020 χ^2/NDF : 39.4/31

Out: 0.088 ± 0.020 χ^2/NDF : 44.3/33

All: 0.063 ± 0.014 χ^2/NDF : 86.5/65

reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.012 $\pm$ 0.002 χ^2 /NDF: 12.8/15

Left Out: -0.008 $\pm$ 0.001 χ^2 /NDF:13.5/15

Right Out: -0.012 $\pm$ 0.002 χ^2 /NDF: 11891.4/17

Left In: -0.010 $\pm$ 0.001 χ^2 /NDF:28.8/15

Left: -0.009 $\pm$ 0.001 χ^2 /NDF: 43.4/31

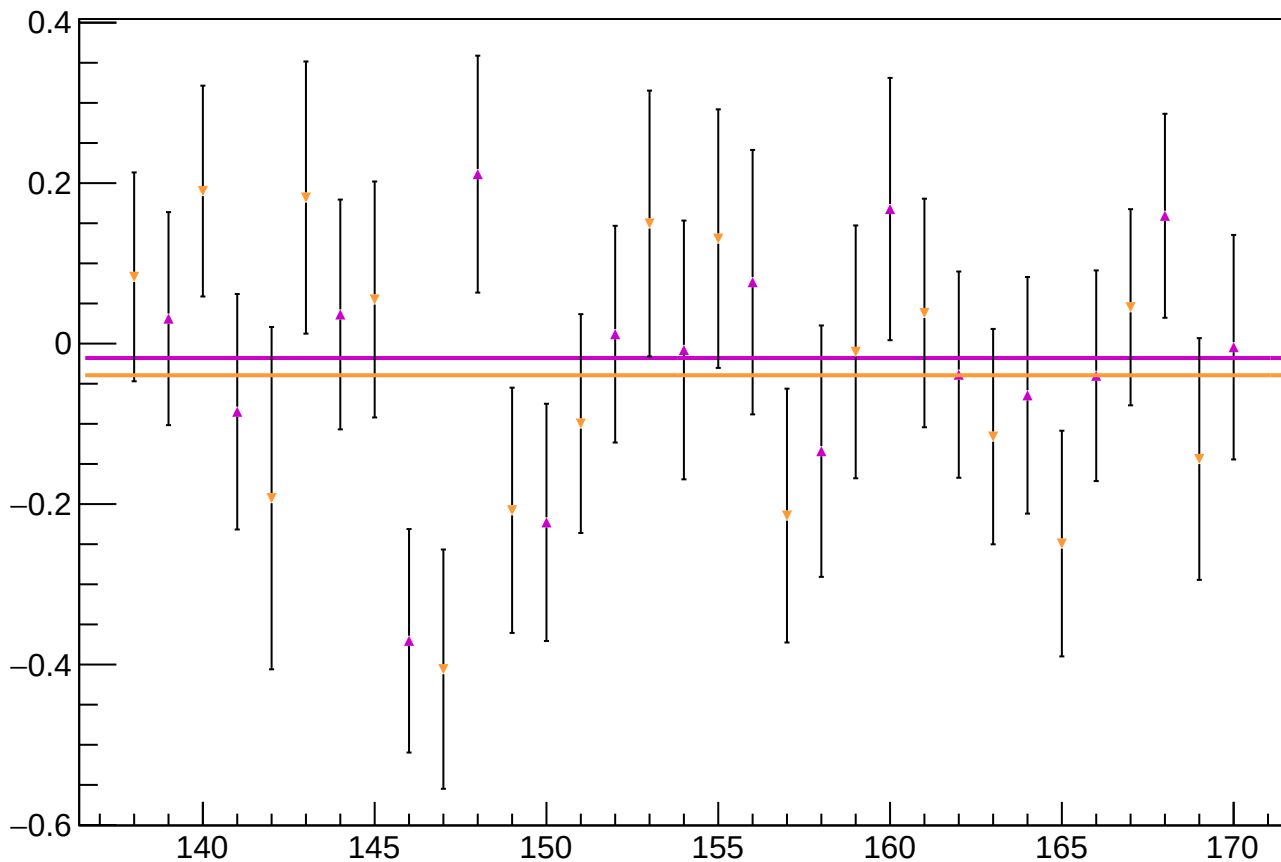
Right: -0.012 $\pm$ 0.001 χ^2 /NDF: 11904.1/33

In: -0.011 $\pm$ 0.001 χ^2 /NDF:42.3/31

Out: -0.010 $\pm$ 0.001 χ^2 /NDF:11907.7/33

All: -0.010 $\pm$ 0.001 χ^2 /NDF: 11950.6/65

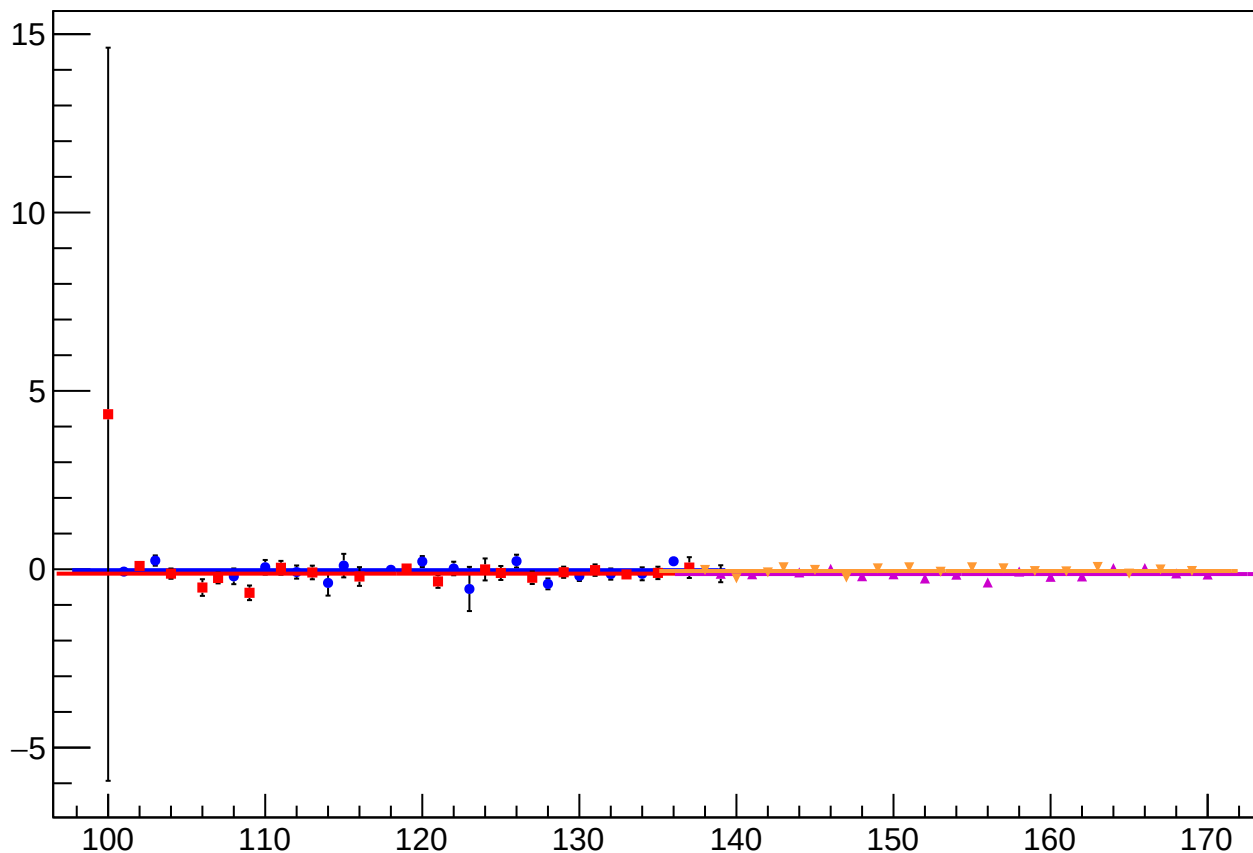
reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: -0.039 $\pm$ 0.036 χ^2 /NDF:21.5/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: -0.018 $\pm$ 0.036 χ^2 /NDF:15.6/15

Left: -0.029 $\pm$ 0.025 χ^2 /NDF: 37.2/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: -0.018 $\pm$ 0.036 χ^2 /NDF:15.6/15
 Out: -0.039 $\pm$ 0.036 χ^2 /NDF:21.5/16
 All: -0.029 $\pm$ 0.025 χ^2 /NDF: 37.2/32

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.026 ± 0.037 χ^2/NDF : 22.7/16

Left Out: -0.050 ± 0.025 χ^2/NDF : 16.5/16

Right Out: -0.124 ± 0.039 χ^2/NDF : 18.3/18

Left In: -0.135 ± 0.026 χ^2/NDF : 15.1/15

Left: -0.092 ± 0.018 χ^2/NDF : 37.1/32

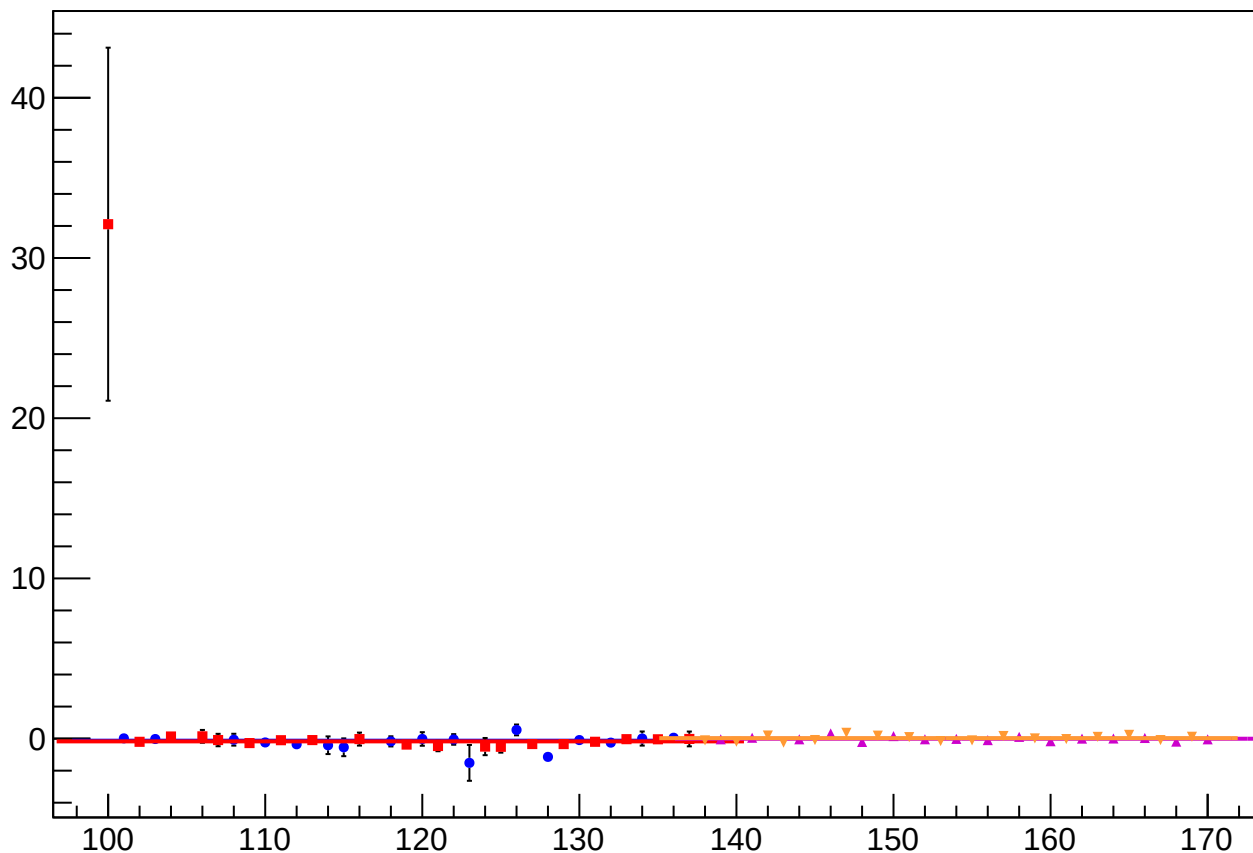
Right: -0.072 ± 0.027 χ^2/NDF : 44.3/35

In: -0.099 ± 0.021 χ^2/NDF : 43.7/32

Out: -0.072 ± 0.021 χ^2/NDF : 37.3/35

All: -0.085 ± 0.015 χ^2/NDF : 81.8/68

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.129 ± 0.067 $\chi^2/\text{NDF}: 23.1/16$

Left Out: 0.029 ± 0.035 $\chi^2/\text{NDF}: 21.3/16$

Right Out: -0.172 ± 0.071 $\chi^2/\text{NDF}: 14.9/18$

Left In: -0.007 ± 0.035 $\chi^2/\text{NDF}: 14.2/15$

Left: 0.011 ± 0.025 $\chi^2/\text{NDF}: 36.0/32$

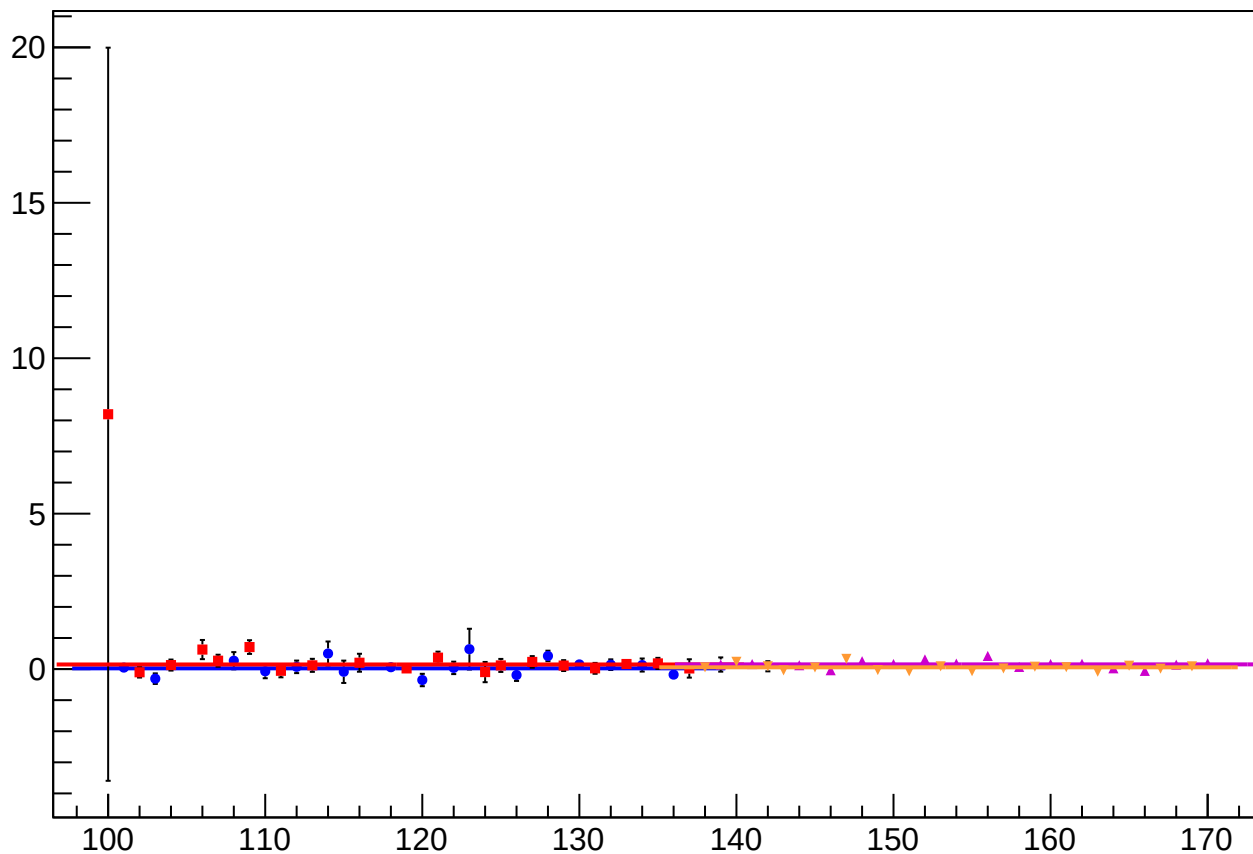
Right: -0.150 ± 0.049 $\chi^2/\text{NDF}: 38.2/35$

In: -0.033 ± 0.031 $\chi^2/\text{NDF}: 39.9/32$

Out: -0.011 ± 0.032 $\chi^2/\text{NDF}: 42.6/35$

All: -0.022 ± 0.022 $\chi^2/\text{NDF}: 82.8/68$

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.023+/-0.043 χ^2/NDF : 21.3/16

Left Out: 0.057+/-0.030 χ^2/NDF :15.5/16

Right Out: 0.148+/-0.045 χ^2/NDF : 16.6/18

Left In: 0.151+/-0.030 χ^2/NDF :14.8/15

Left: 0.103+/-0.021 χ^2/NDF : 35.4/32

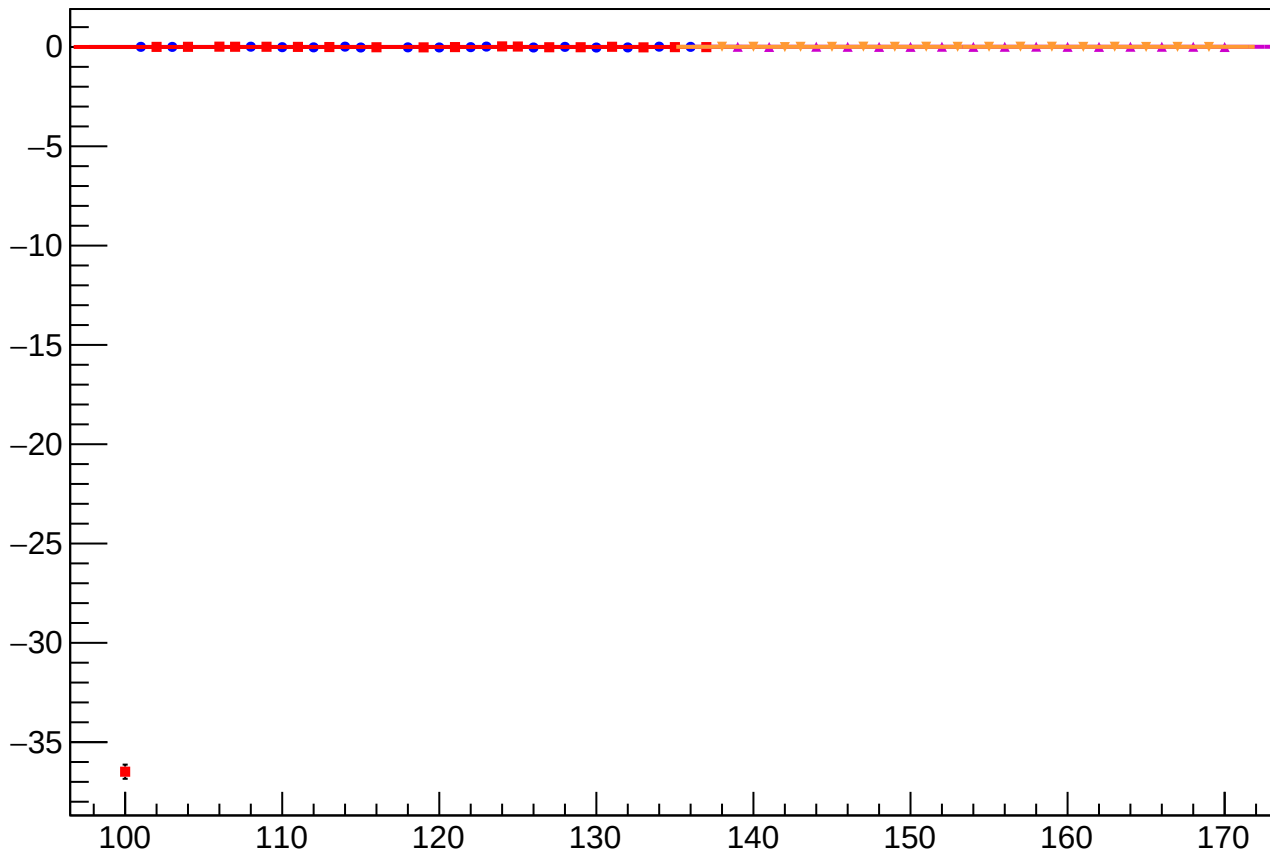
Right: 0.082+/-0.031 χ^2/NDF : 41.9/35

In: 0.108+/-0.025 χ^2/NDF :42.2/32

Out: 0.084+/-0.025 χ^2/NDF :35.0/35

All: 0.096+/-0.017 χ^2/NDF : 77.6/68

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002 χ^2 /NDF: 30.6/16

Left Out: 0.009 $\pm$ 0.001 χ^2 /NDF:11.4/16

Right Out: 0.001 $\pm$ 0.002 χ^2 /NDF: 10449.1/18

Left In: 0.010 $\pm$ 0.001 χ^2 /NDF:9.5/15

Left: 0.010 $\pm$ 0.001 χ^2 /NDF: 21.5/32

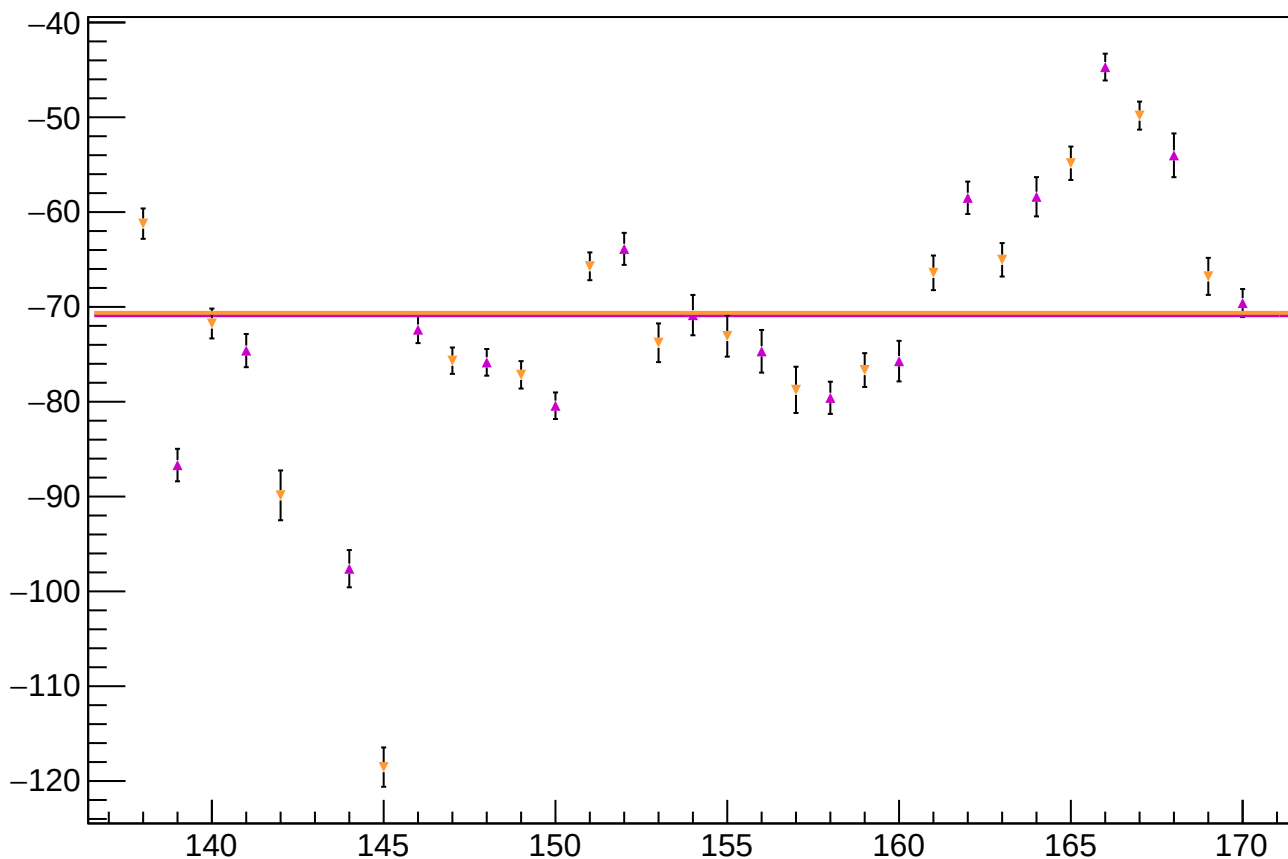
Right: 0.001 $\pm$ 0.002 χ^2 /NDF: 10479.7/35

In: 0.008 $\pm$ 0.001 χ^2 /NDF:52.1/32

Out: 0.007 $\pm$ 0.001 χ^2 /NDF:10469.8/35

All: 0.007 $\pm$ 0.001 χ^2 /NDF: 10522.3/68

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -70.625+/-0.437 χ^2/NDF :990.4/15

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -70.876+/-0.427 χ^2/NDF :872.5/15

Left: -70.754+/-0.305 χ^2/NDF : 1863.2/31

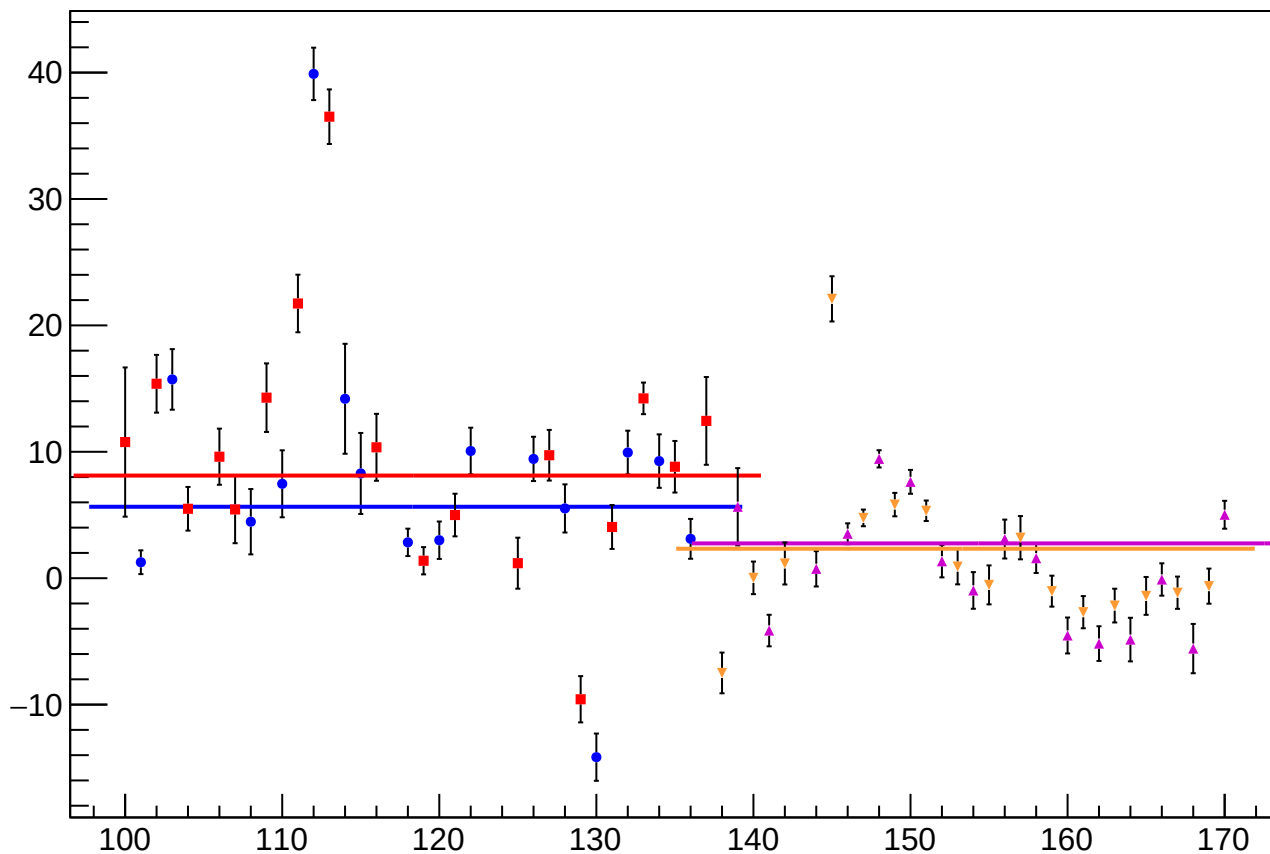
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -70.876+/-0.427 χ^2/NDF :872.5/15

Out: -70.625+/-0.437 χ^2/NDF :990.4/15

All: -70.754+/-0.305 χ^2/NDF : 1863.2/31

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.651 ± 0.429 χ^2/NDF : 461.9/15

Left Out: 2.332 ± 0.297 χ^2/NDF : 262.0/15

Right Out: 8.119 ± 0.453 χ^2/NDF : 407.9/17

Left In: 2.755 ± 0.297 χ^2/NDF : 272.5/15

Left: 2.543 ± 0.210 χ^2/NDF : 535.5/31

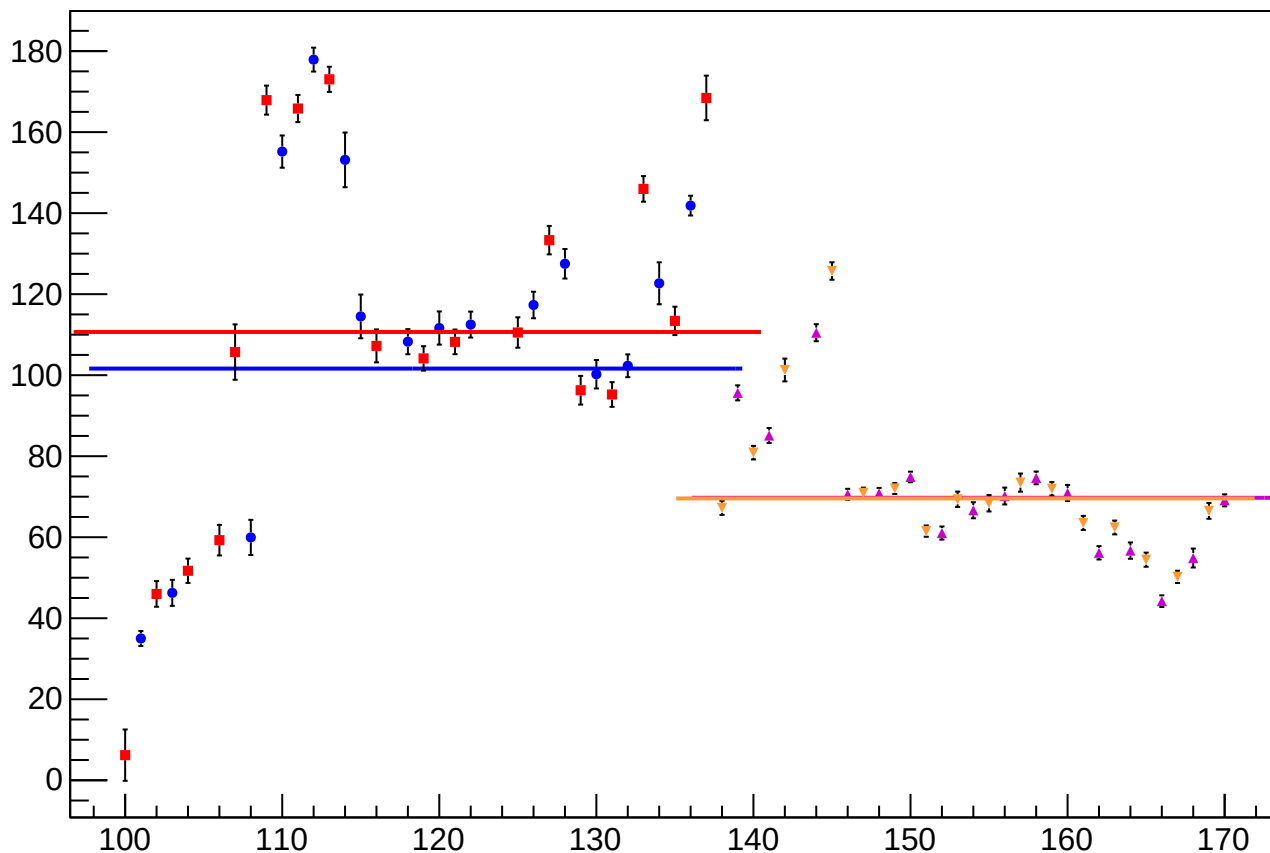
Right: 6.819 ± 0.311 χ^2/NDF : 885.4/33

In: 3.695 ± 0.244 χ^2/NDF : 765.1/31

Out: 4.073 ± 0.248 χ^2/NDF : 784.2/33

All: 3.881 ± 0.174 χ^2/NDF : 1550.6/65

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 101.630 $\pm$ 0.812 χ^2 /NDF: 2980.2/15

Left Out: 69.578 $\pm$ 0.428 χ^2 /NDF:1167.7/15

Right Out: 110.669 $\pm$ 0.836 χ^2 /NDF: 2514.0/17

Left In: 69.731 $\pm$ 0.416 χ^2 /NDF:1162.1/15

Left: 69.657 $\pm$ 0.298 χ^2 /NDF: 2329.8/31

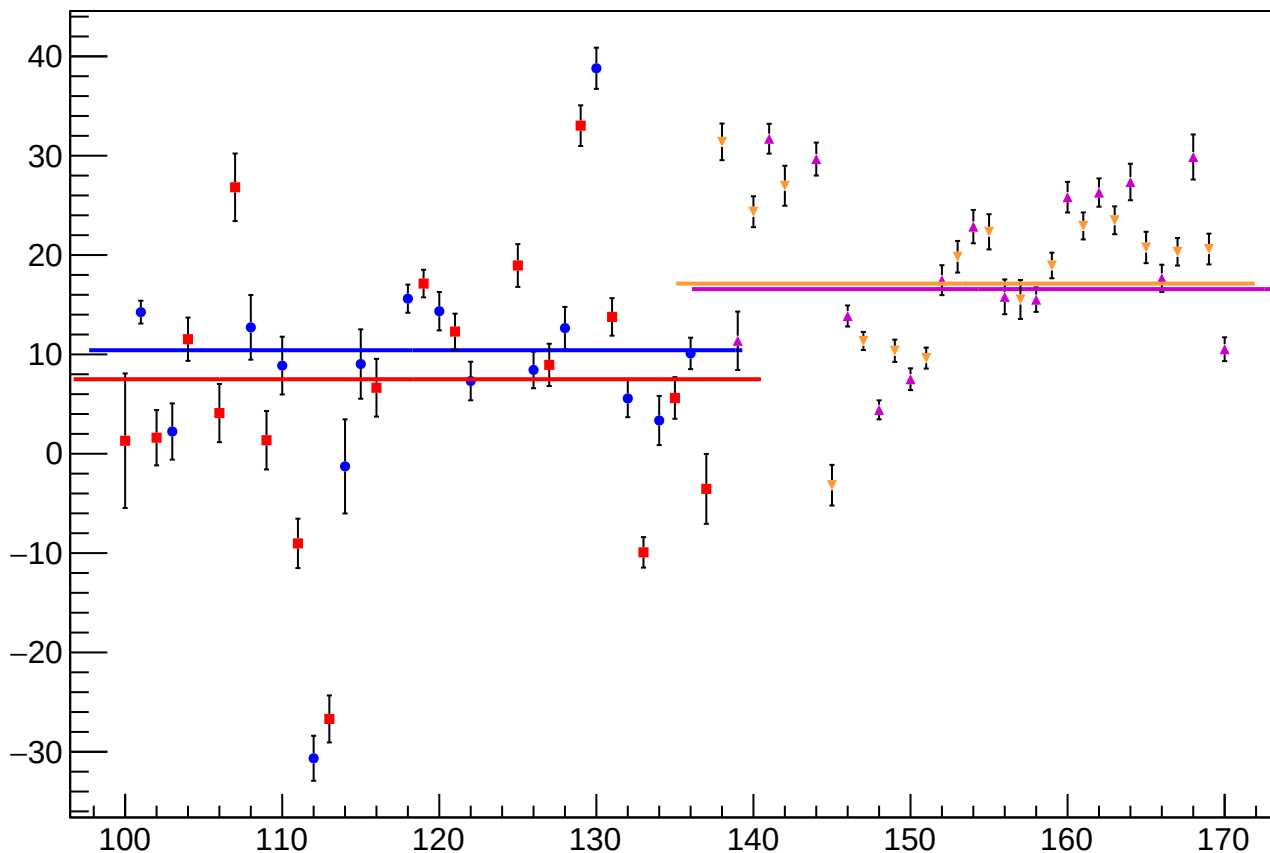
Right: 106.018 $\pm$ 0.583 χ^2 /NDF: 5554.3/33

In: 76.370 $\pm$ 0.370 χ^2 /NDF:5364.2/31

Out: 78.097 $\pm$ 0.381 χ^2 /NDF:5596.3/33

All: 77.210 $\pm$ 0.266 χ^2 /NDF: 10971.0/65

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.420+/-0.497 χ^2/NDF : 579.7/15

Left Out: 17.129+/-0.352 χ^2/NDF : 399.7/15

Right Out: 7.502+/-0.523 χ^2/NDF : 689.4/17

Left In: 16.575+/-0.350 χ^2/NDF : 597.1/15

Left: 16.850+/-0.248 χ^2/NDF : 998.1/31

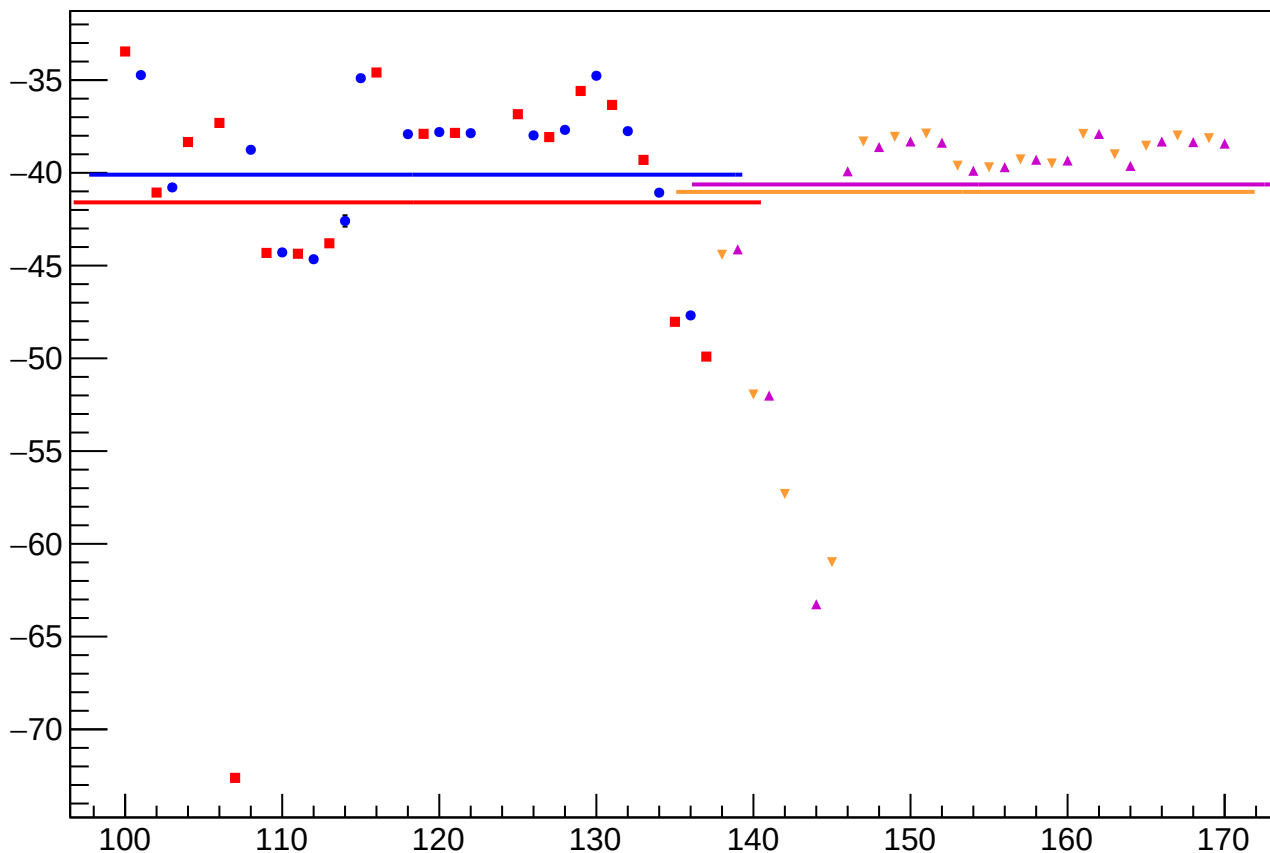
Right: 9.035+/-0.360 χ^2/NDF : 1285.5/33

In: 14.536+/-0.286 χ^2/NDF : 1279.3/31

Out: 14.127+/-0.292 χ^2/NDF : 1322.1/33

All: 14.336+/-0.204 χ^2/NDF : 2602.4/65

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.098+/-0.028 χ^2/NDF : 25073.4/15

Left Out: -41.026+/-0.017 χ^2/NDF :117798.4/15

Right Out: -41.592+/-0.029 χ^2/NDF : 61677.7/17

Left In: -40.626+/-0.017 χ^2/NDF :97015.9/15

Left: -40.819+/-0.012 χ^2/NDF : 215098.6/31

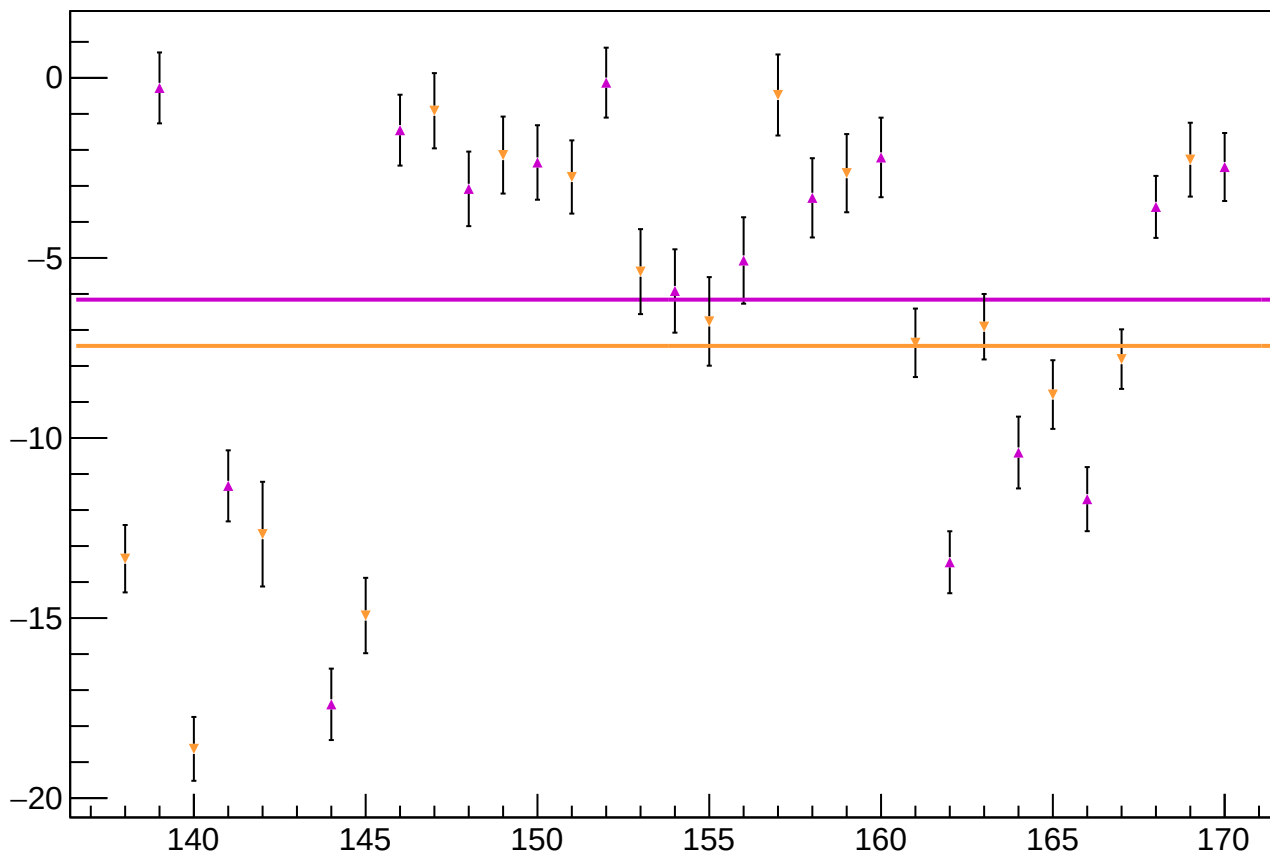
Right: -40.838+/-0.020 χ^2/NDF : 88129.3/33

In: -40.492+/-0.014 χ^2/NDF :122348.1/31

Out: -41.175+/-0.015 χ^2/NDF :179764.8/33

All: -40.824+/-0.010 χ^2/NDF : 303228.6/65

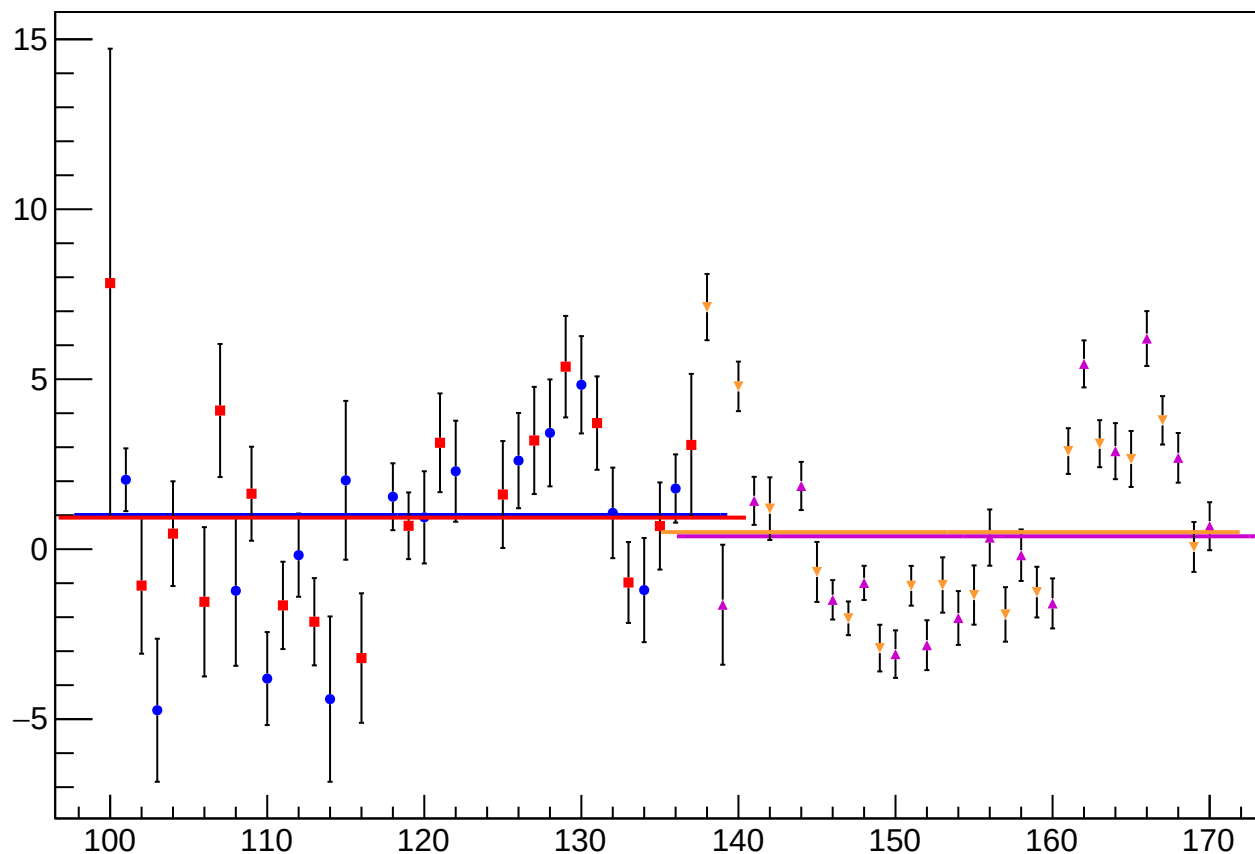
reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: -7.442 $\pm$ 0.255 χ^2 /NDF:437.4/15
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: -6.158 $\pm$ 0.248 χ^2 /NDF:448.4/15

Left: -6.784 $\pm$ 0.178 χ^2 /NDF: 898.8/31
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: -6.158 $\pm$ 0.248 χ^2 /NDF:448.4/15
 Out: -7.442 $\pm$ 0.255 χ^2 /NDF:437.4/15
 All: -6.784 $\pm$ 0.178 χ^2 /NDF: 898.8/31

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.006 ± 0.342 χ^2/NDF : 42.7/15

Left Out: 0.503 ± 0.182 χ^2/NDF : 219.3/15

Right Out: 0.929 ± 0.353 χ^2/NDF : 41.9/17

Left In: 0.379 ± 0.180 χ^2/NDF : 211.3/15

Left: 0.440 ± 0.128 χ^2/NDF : 430.9/31

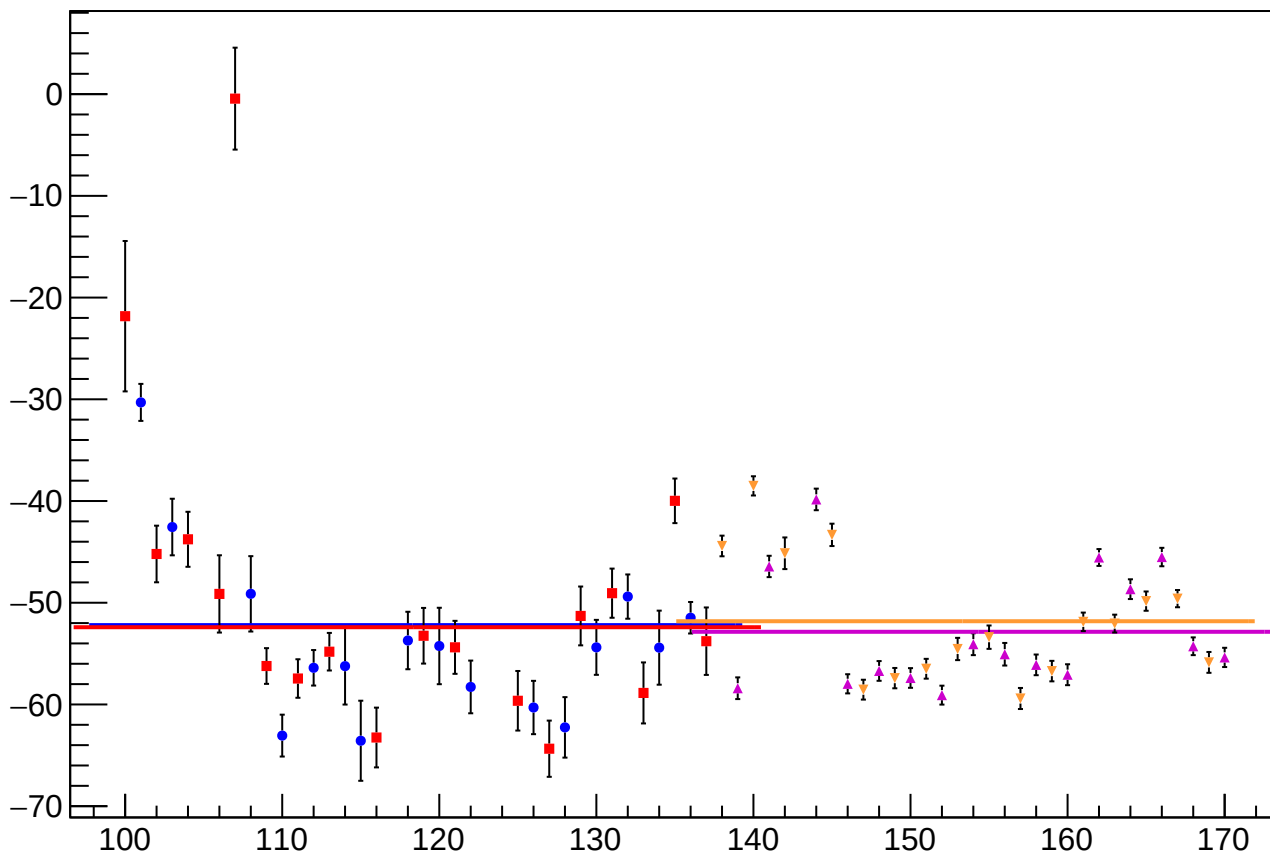
Right: 0.969 ± 0.246 χ^2/NDF : 84.6/33

In: 0.516 ± 0.159 χ^2/NDF : 256.7/31

Out: 0.592 ± 0.162 χ^2/NDF : 262.3/33

All: 0.553 ± 0.113 χ^2/NDF : 519.1/65

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.200 ± 0.615 χ^2/NDF : 230.6/15

Left Out: -51.818 ± 0.251 χ^2/NDF : 544.1/15

Right Out: -52.407 ± 0.616 χ^2/NDF : 233.9/17

Left In: -52.856 ± 0.244 χ^2/NDF : 531.3/15

Left: -52.352 ± 0.175 χ^2/NDF : 1084.3/31

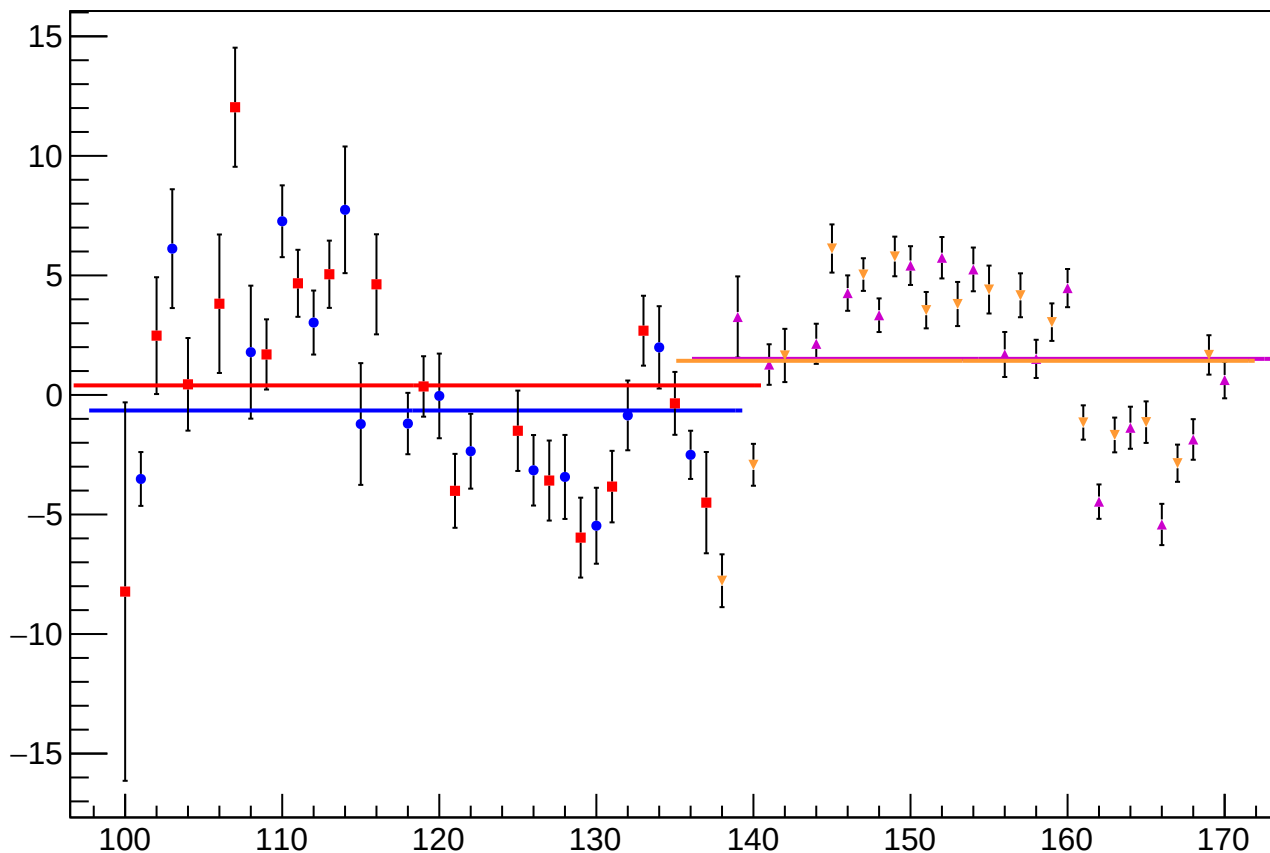
Right: -52.303 ± 0.435 χ^2/NDF : 464.6/33

In: -52.767 ± 0.226 χ^2/NDF : 763.0/31

Out: -51.902 ± 0.232 χ^2/NDF : 778.8/33

All: -52.345 ± 0.162 χ^2/NDF : 1548.9/65

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.651 ± 0.387 χ^2/NDF : 81.9/15

Left Out: 1.428 ± 0.211 χ^2/NDF : 277.9/15

Right Out: 0.400 ± 0.399 χ^2/NDF : 95.9/17

Left In: 1.510 ± 0.209 χ^2/NDF : 261.0/15

Left: 1.469 ± 0.148 χ^2/NDF : 539.0/31

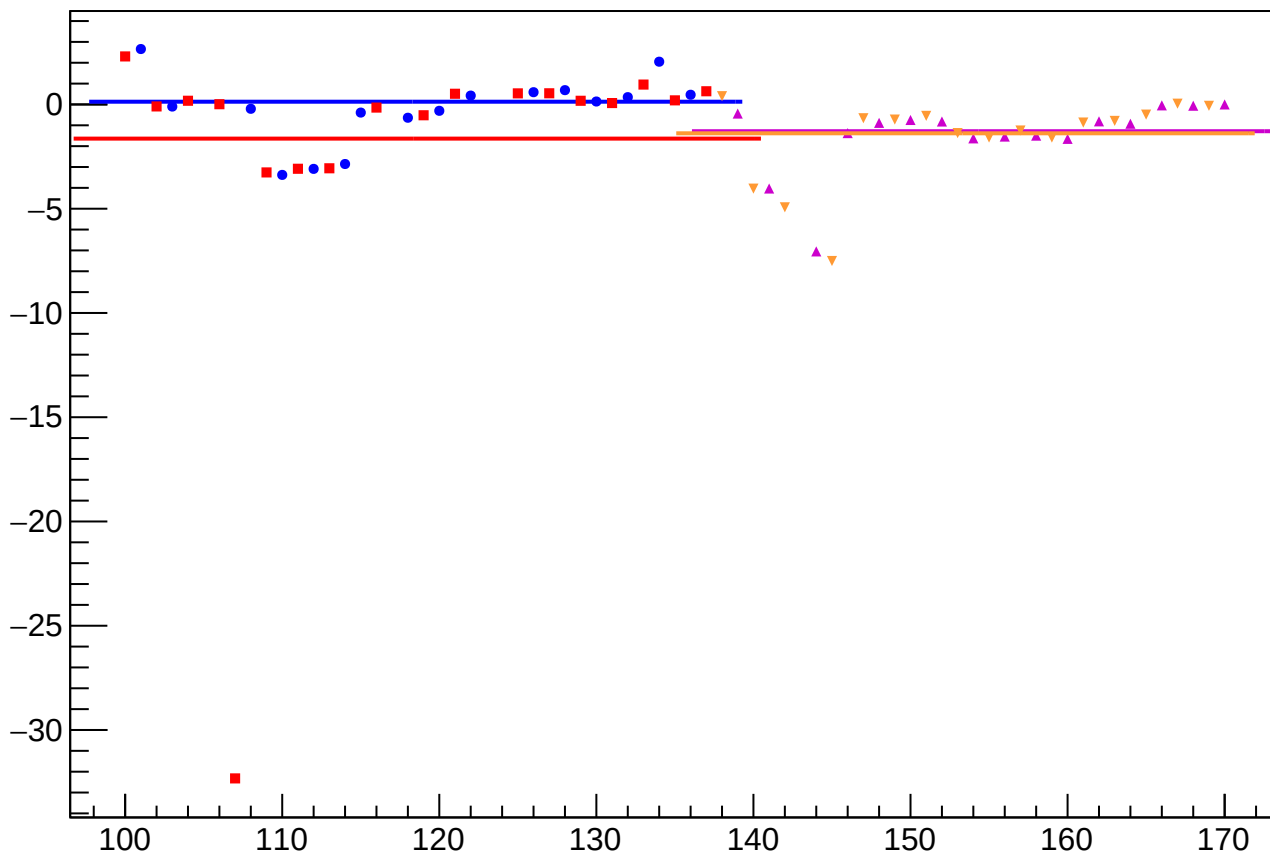
Right: -0.142 ± 0.278 χ^2/NDF : 181.4/33

In: 1.023 ± 0.184 χ^2/NDF : 367.0/31

Out: 1.204 ± 0.186 χ^2/NDF : 379.0/33

All: 1.112 ± 0.131 χ^2/NDF : 746.5/65

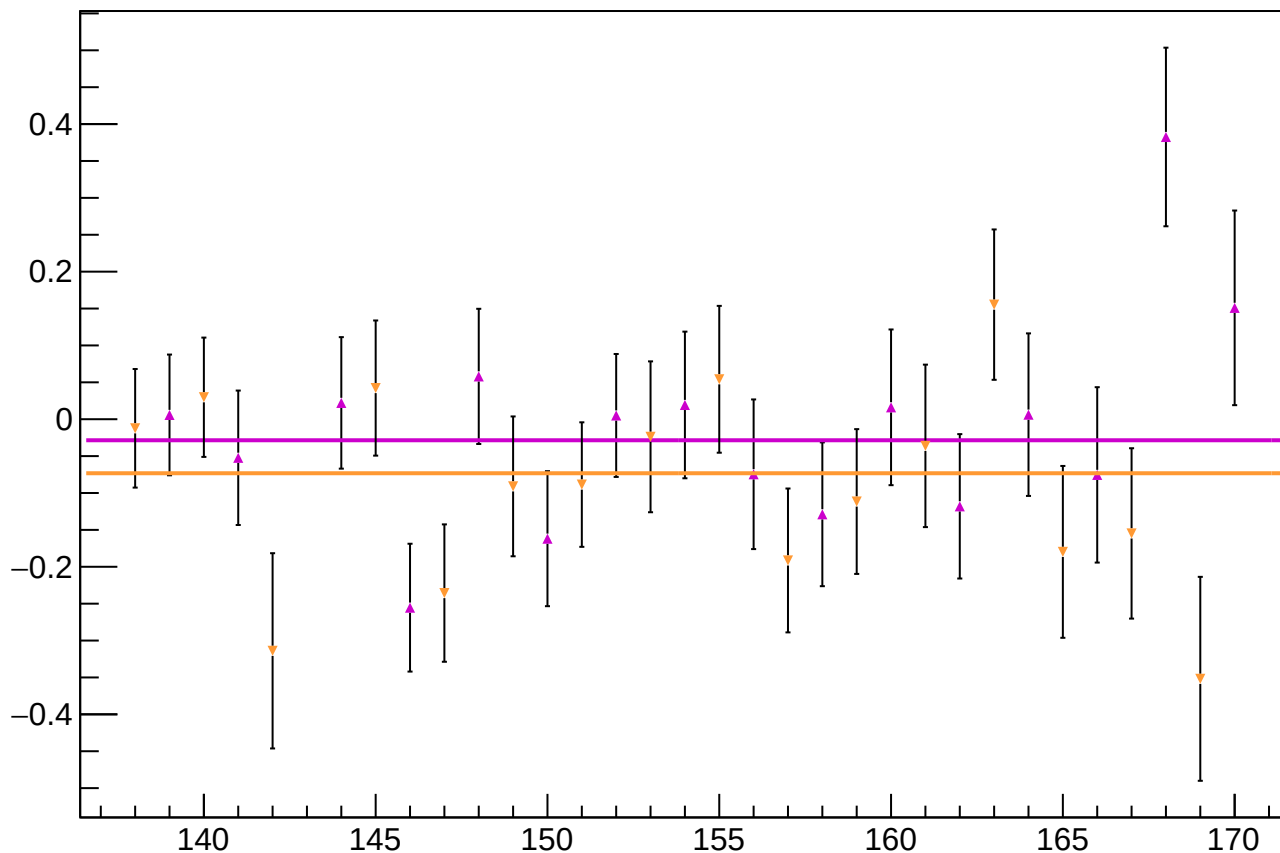
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.132 ± 0.022 $\chi^2/\text{NDF}: 5247.5/15$
 Left Out: -1.383 ± 0.010 $\chi^2/\text{NDF}: 34446.1/15$
 Right Out: -1.638 ± 0.022 $\chi^2/\text{NDF}: 77848.3/17$
 Left In: -1.284 ± 0.010 $\chi^2/\text{NDF}: 24883.1/15$

Left: -1.332 ± 0.007 $\chi^2/\text{NDF}: 59382.4/31$
 Right: -0.742 ± 0.015 $\chi^2/\text{NDF}: 86422.1/33$
 In: -1.052 ± 0.009 $\chi^2/\text{NDF}: 33733.7/31$
 Out: -1.426 ± 0.009 $\chi^2/\text{NDF}: 112407.5/33$
 All: -1.234 ± 0.006 $\chi^2/\text{NDF}: 147038.7/65$

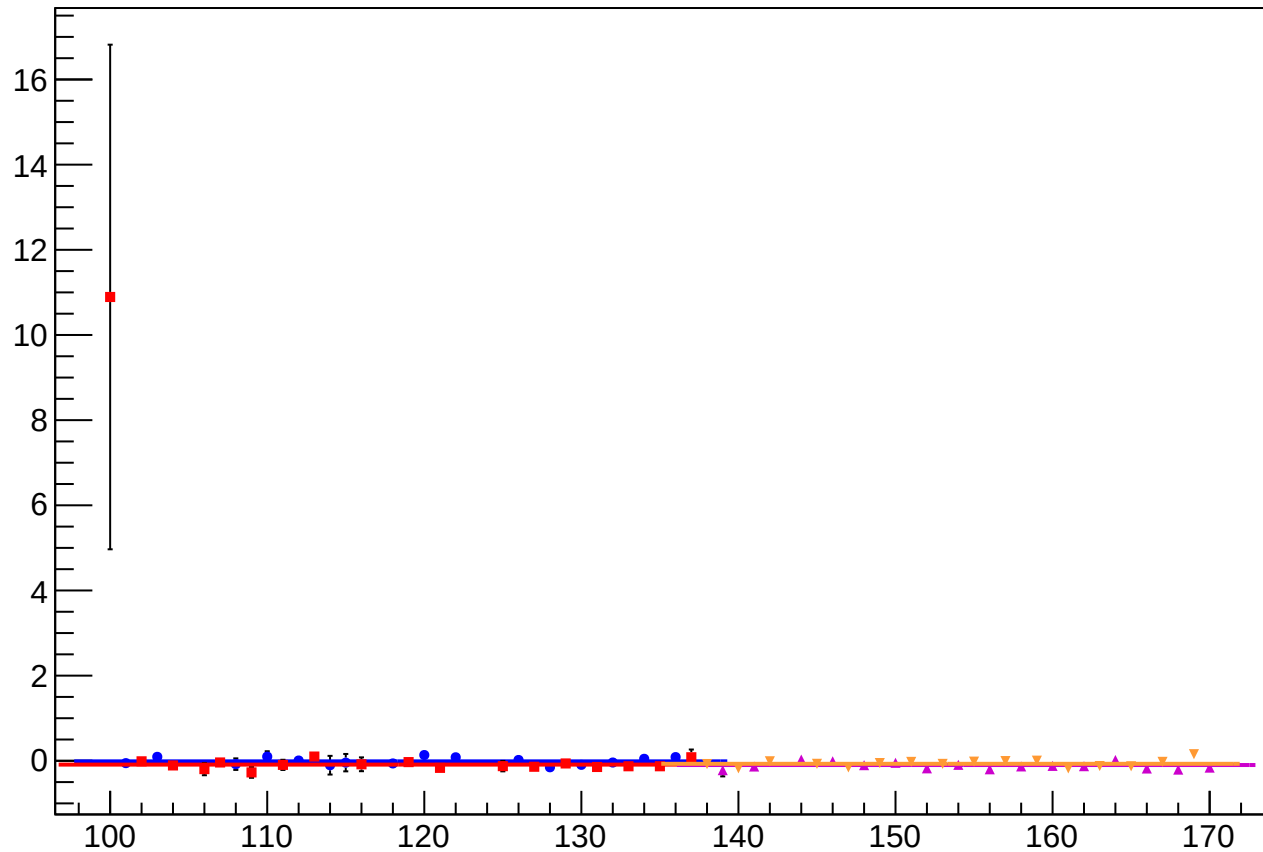
reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: -0.073 $\pm$ 0.025 χ^2 /NDF:24.2/15
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: -0.029 $\pm$ 0.024 χ^2 /NDF:26.8/15

Left: -0.051 $\pm$ 0.017 χ^2 /NDF: 52.7/31
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: -0.029 $\pm$ 0.024 χ^2 /NDF:26.8/15
 Out: -0.073 $\pm$ 0.025 χ^2 /NDF:24.2/15
 All: -0.051 $\pm$ 0.017 χ^2 /NDF: 52.7/31

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.013+/-0.023 χ^2/NDF : 11.7/15

Left Out: -0.071+/-0.017 χ^2/NDF : 18.3/15

Right Out: -0.089+/-0.025 χ^2/NDF : 13.0/17

Left In: -0.099+/-0.017 χ^2/NDF : 16.3/15

Left: -0.085+/-0.012 χ^2/NDF : 36.0/31

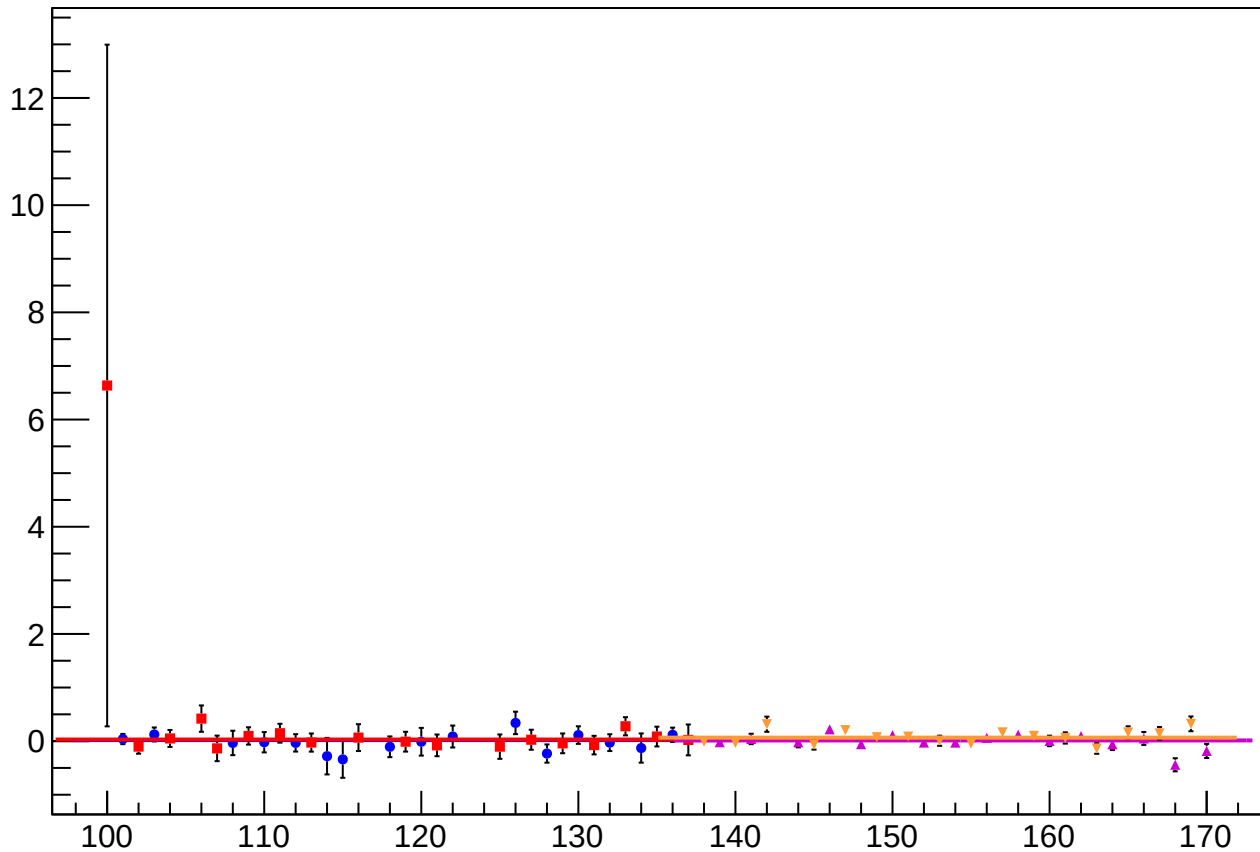
Right: -0.049+/-0.017 χ^2/NDF : 29.6/33

In: -0.069+/-0.014 χ^2/NDF : 36.7/31

Out: -0.077+/-0.014 χ^2/NDF : 31.6/33

All: -0.073+/-0.010 χ^2/NDF : 68.5/65

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.020+/-0.043 χ^2/NDF : 9.1/15

Left Out: 0.065+/-0.024 χ^2/NDF :21.6/15

Right Out: 0.030+/-0.045 χ^2/NDF : 9.2/17

Left In: 0.013+/-0.024 χ^2/NDF :27.9/15

Left: 0.038+/-0.017 χ^2/NDF : 51.9/31

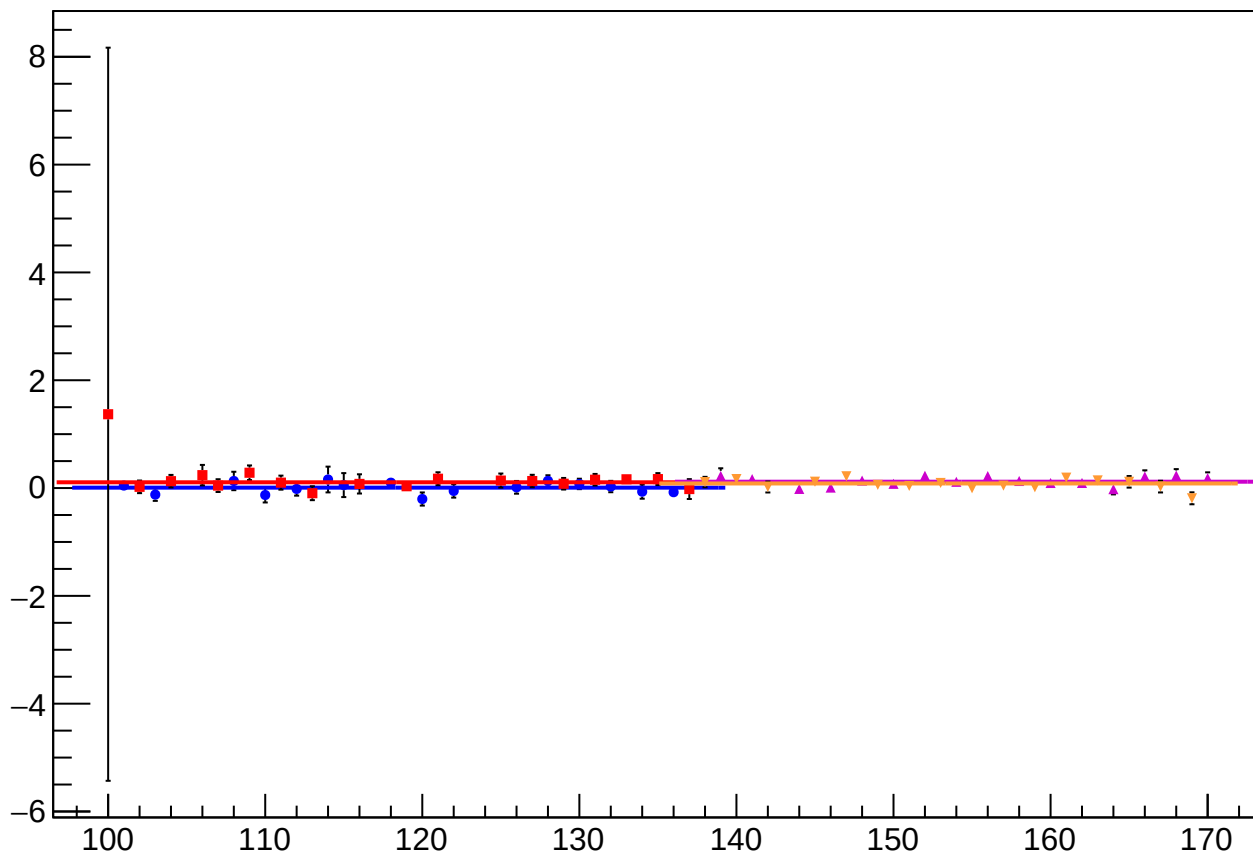
Right: 0.025+/-0.031 χ^2/NDF : 18.3/33

In: 0.014+/-0.021 χ^2/NDF :37.0/31

Out: 0.057+/-0.021 χ^2/NDF :31.3/33

All: 0.035+/-0.015 χ^2/NDF : 70.4/65

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.027 χ^2 /NDF: 11.3/15

Left Out: 0.085 $\pm$ 0.020 χ^2 /NDF:18.3/15

Right Out: 0.107 $\pm$ 0.029 χ^2 /NDF: 8.2/17

Left In: 0.118 $\pm$ 0.020 χ^2 /NDF:15.4/15

Left: 0.101 $\pm$ 0.014 χ^2 /NDF: 35.0/31

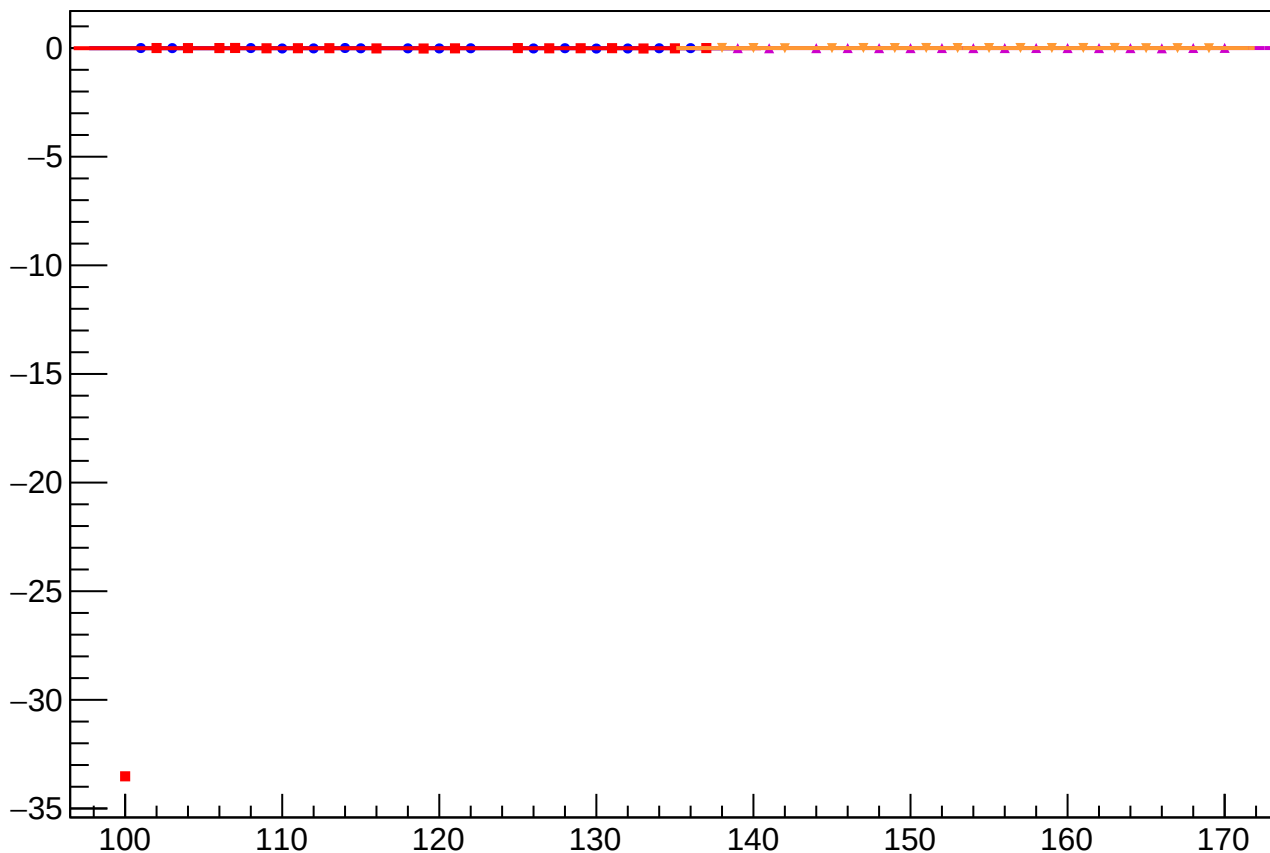
Right: 0.054 $\pm$ 0.020 χ^2 /NDF: 25.8/33

In: 0.078 $\pm$ 0.016 χ^2 /NDF:37.3/31

Out: 0.092 $\pm$ 0.017 χ^2 /NDF:26.8/33

All: 0.085 $\pm$ 0.012 χ^2 /NDF: 64.5/65

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.005 ± 0.001 χ^2/NDF : 21.8/15

Left Out: 0.001 ± 0.001 χ^2/NDF : 14.6/15

Right Out: -0.006 ± 0.001 χ^2/NDF : 26508.7/17

Left In: 0.000 ± 0.001 χ^2/NDF : 15.0/15

Left: 0.001 ± 0.001 χ^2/NDF : 29.6/31

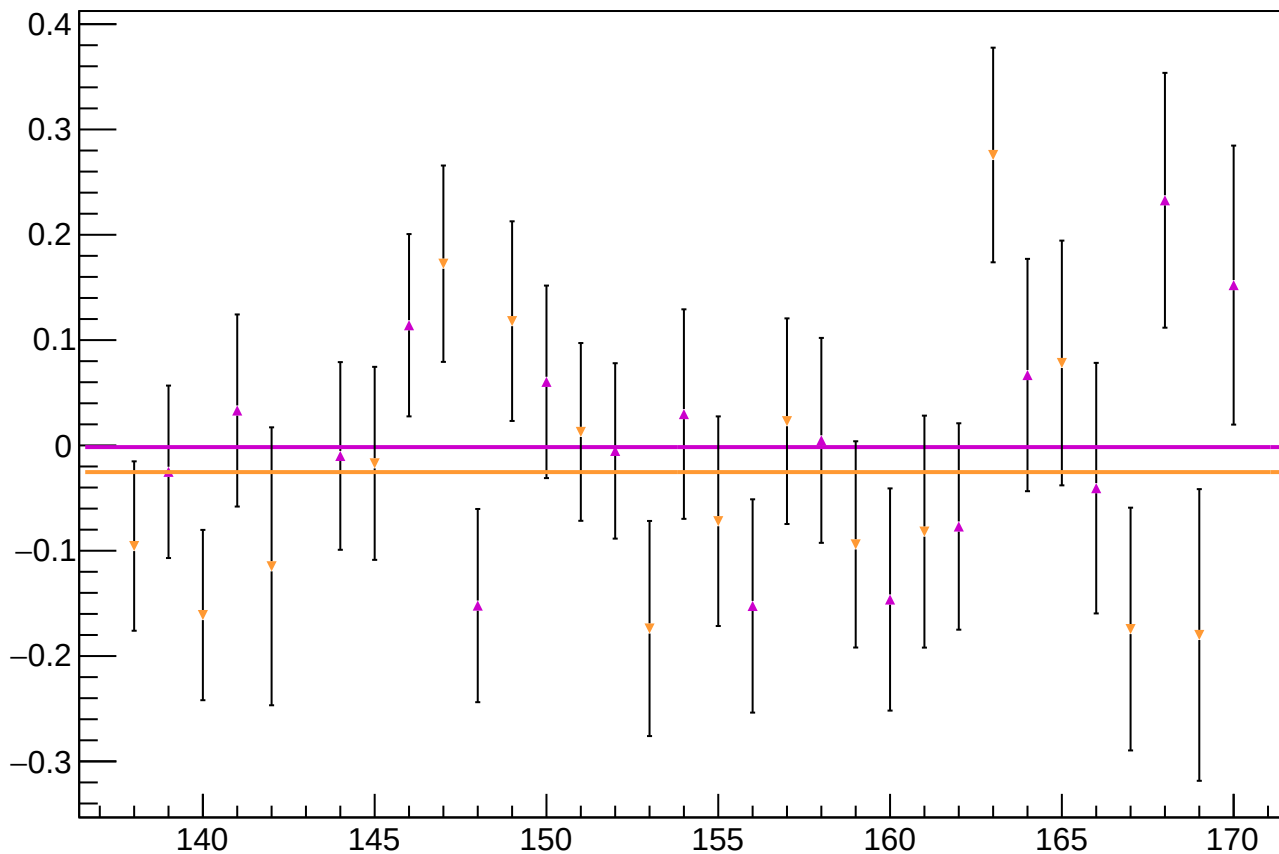
Right: -0.006 ± 0.001 χ^2/NDF : 26530.6/33

In: -0.001 ± 0.001 χ^2/NDF : 47.9/31

Out: -0.001 ± 0.001 χ^2/NDF : 26537.6/33

All: -0.001 ± 0.001 χ^2/NDF : 26585.5/65

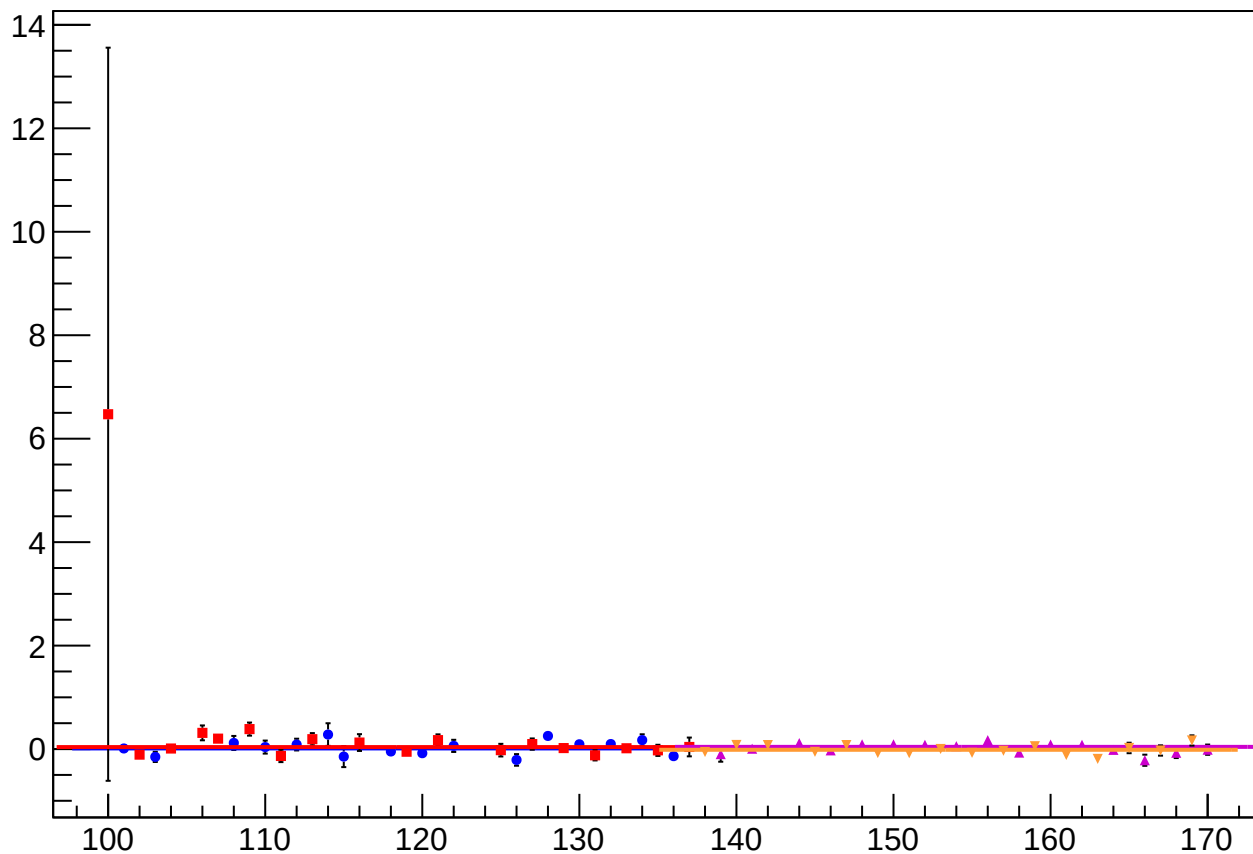
reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: -0.025 $\pm$ 0.025 χ^2 /NDF:26.8/15
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: -0.002 $\pm$ 0.024 χ^2 /NDF:15.6/15

Left: -0.013 $\pm$ 0.017 χ^2 /NDF: 42.9/31
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: -0.002 $\pm$ 0.024 χ^2 /NDF:15.6/15
 Out: -0.025 $\pm$ 0.025 χ^2 /NDF:26.8/15
 All: -0.013 $\pm$ 0.017 χ^2 /NDF: 42.9/31

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.023 χ^2 /NDF: 25.0/15

Left Out: -0.014 $\pm$ 0.017 χ^2 /NDF:23.0/15

Right Out: 0.038 $\pm$ 0.025 χ^2 /NDF: 28.4/17

Left In: 0.042 $\pm$ 0.017 χ^2 /NDF:21.0/15

Left: 0.014 $\pm$ 0.012 χ^2 /NDF: 49.3/31

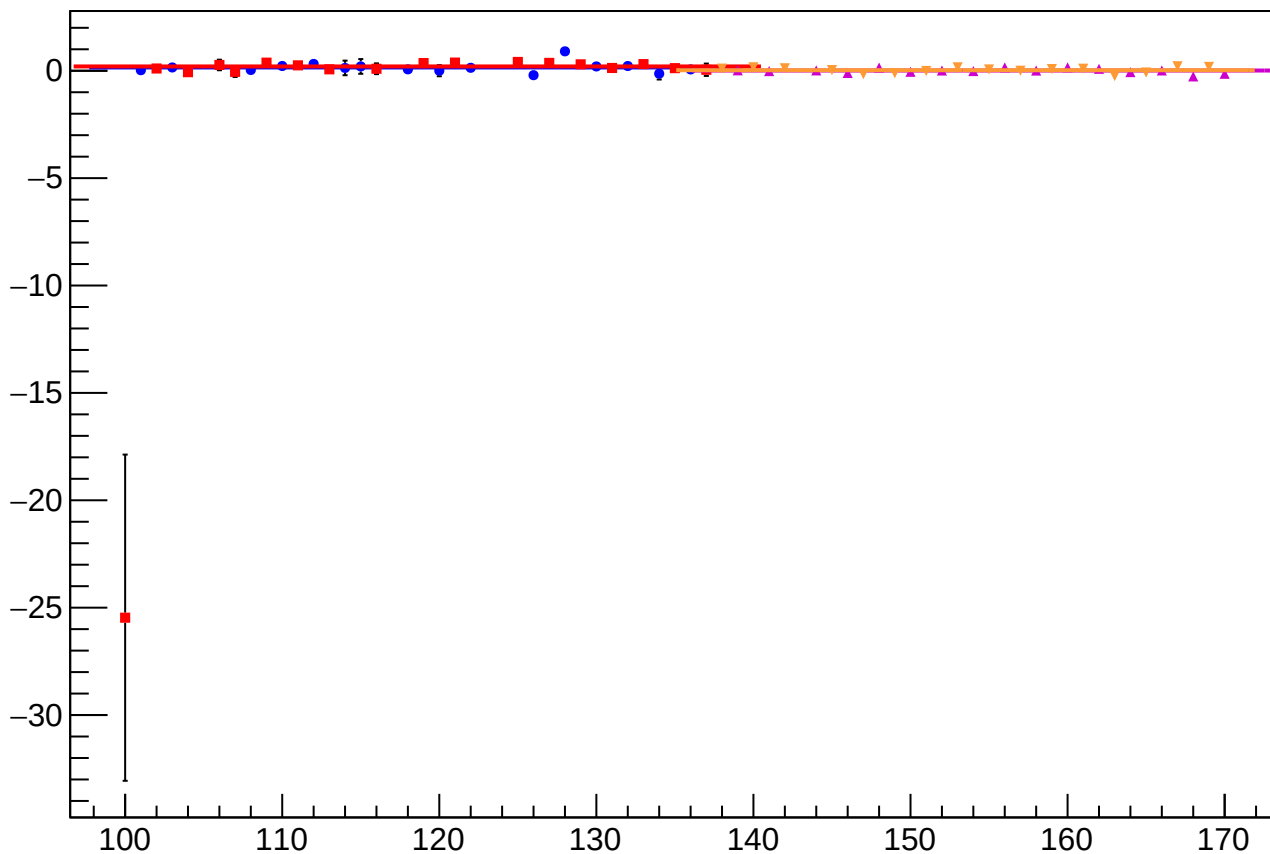
Right: 0.025 $\pm$ 0.017 χ^2 /NDF: 54.0/33

In: 0.032 $\pm$ 0.014 χ^2 /NDF:47.1/31

Out: 0.003 $\pm$ 0.014 χ^2 /NDF:54.4/33

All: 0.018 $\pm$ 0.010 χ^2 /NDF: 103.6/65

reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.154+/-0.043 χ^2/NDF : 27.9/15

Left Out: 0.025+/-0.024 χ^2/NDF : 26.2/15

Right Out: 0.201+/-0.045 χ^2/NDF : 22.6/17

Left In: 0.010+/-0.024 χ^2/NDF : 17.2/15

Left: 0.018+/-0.017 χ^2/NDF : 43.6/31

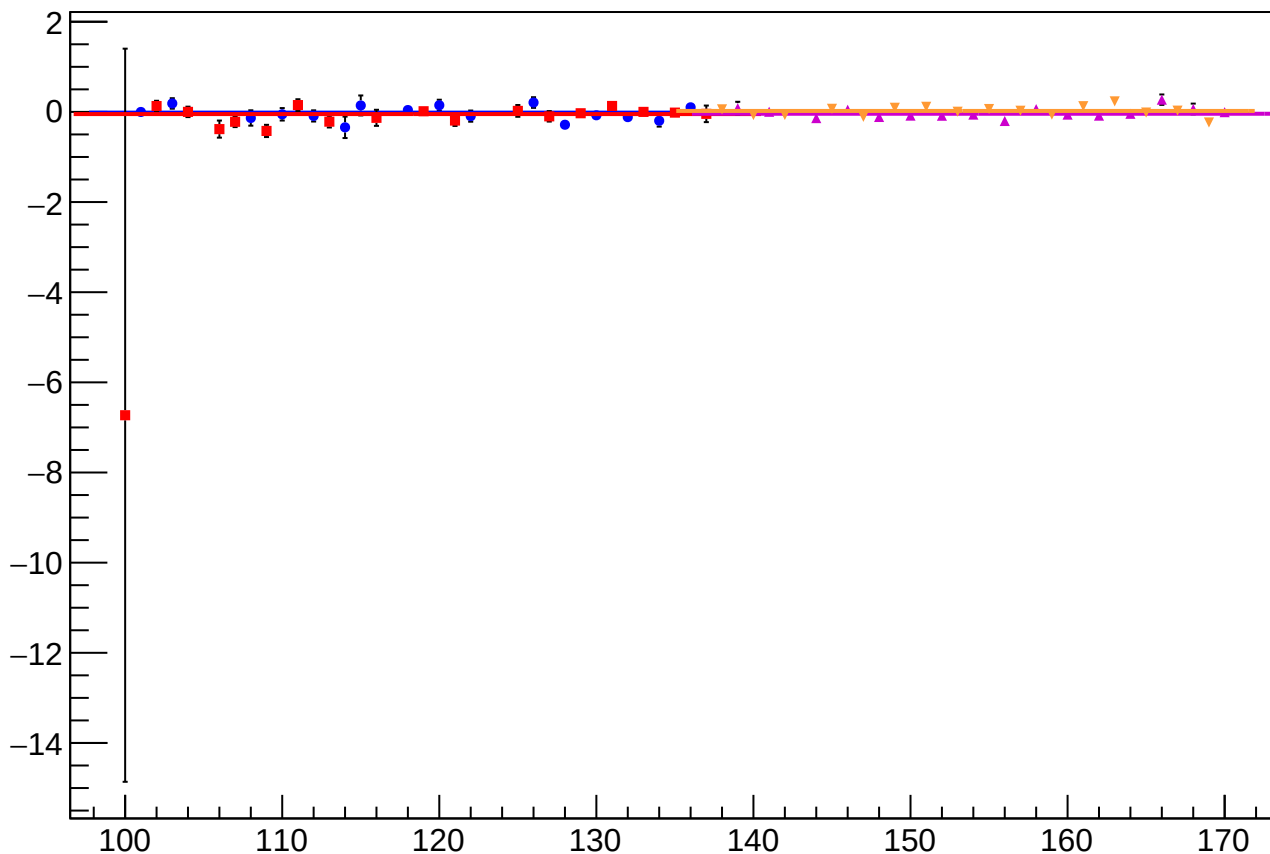
Right: 0.177+/-0.031 χ^2/NDF : 51.1/33

In: 0.044+/-0.021 χ^2/NDF : 53.8/31

Out: 0.065+/-0.021 χ^2/NDF : 60.7/33

All: 0.054+/-0.015 χ^2/NDF : 114.9/65

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.016 ± 0.027 $\chi^2/\text{NDF}: 24.3/15$

Left Out: 0.021 ± 0.020 $\chi^2/\text{NDF}: 25.6/15$

Right Out: -0.048 ± 0.029 $\chi^2/\text{NDF}: 25.9/17$

Left In: -0.041 ± 0.020 $\chi^2/\text{NDF}: 21.4/15$

Left: -0.010 ± 0.014 $\chi^2/\text{NDF}: 51.8/31$

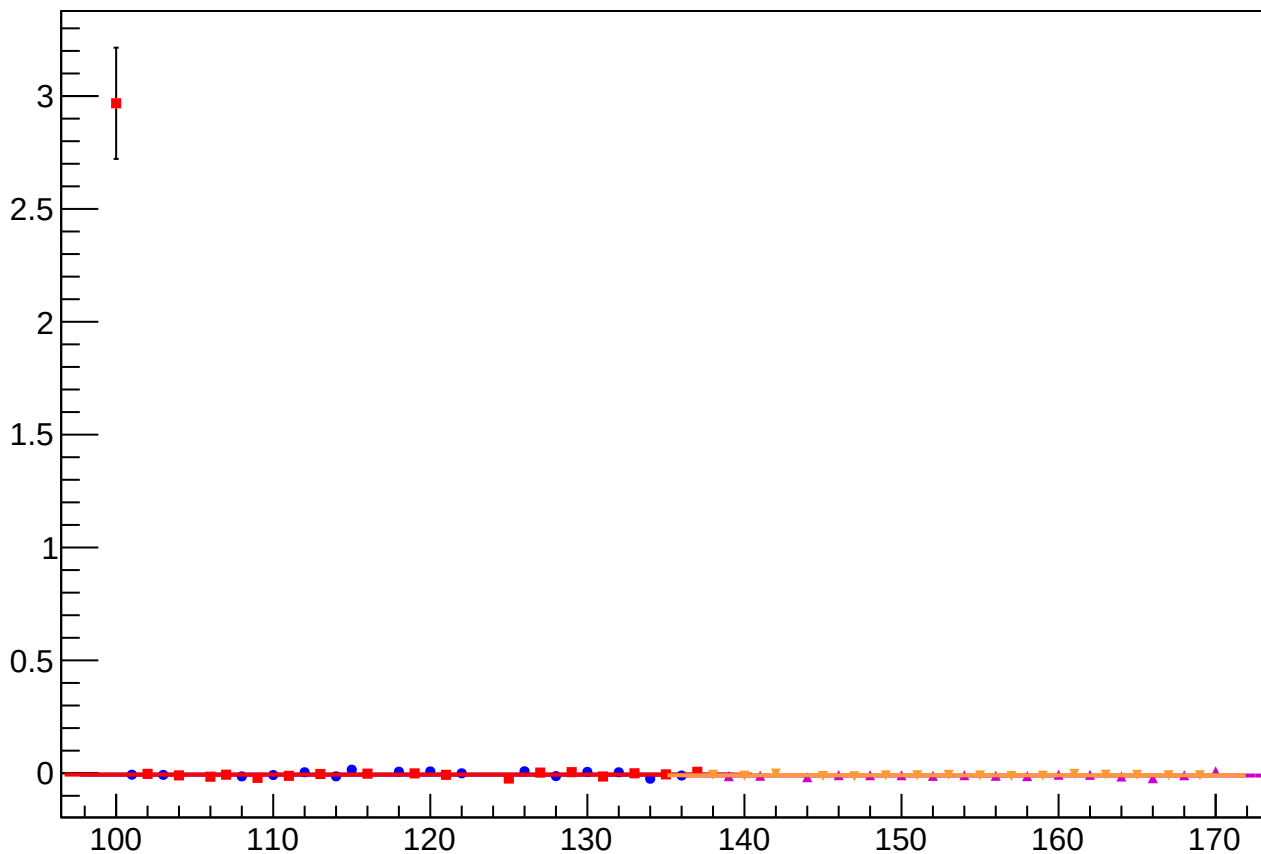
Right: -0.031 ± 0.020 $\chi^2/\text{NDF}: 51.0/33$

In: -0.032 ± 0.016 $\chi^2/\text{NDF}: 46.3/31$

Out: -0.002 ± 0.017 $\chi^2/\text{NDF}: 55.5/33$

All: -0.017 ± 0.012 $\chi^2/\text{NDF}: 103.5/65$

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001 χ^2 /NDF: 27.3/15

Left Out: -0.009+/-0.001 χ^2 /NDF:9.2/15

Right Out: -0.006+/-0.001 χ^2 /NDF: 165.9/17

Left In: -0.010+/-0.001 χ^2 /NDF:28.5/15

Left: -0.010+/-0.001 χ^2 /NDF: 38.3/31

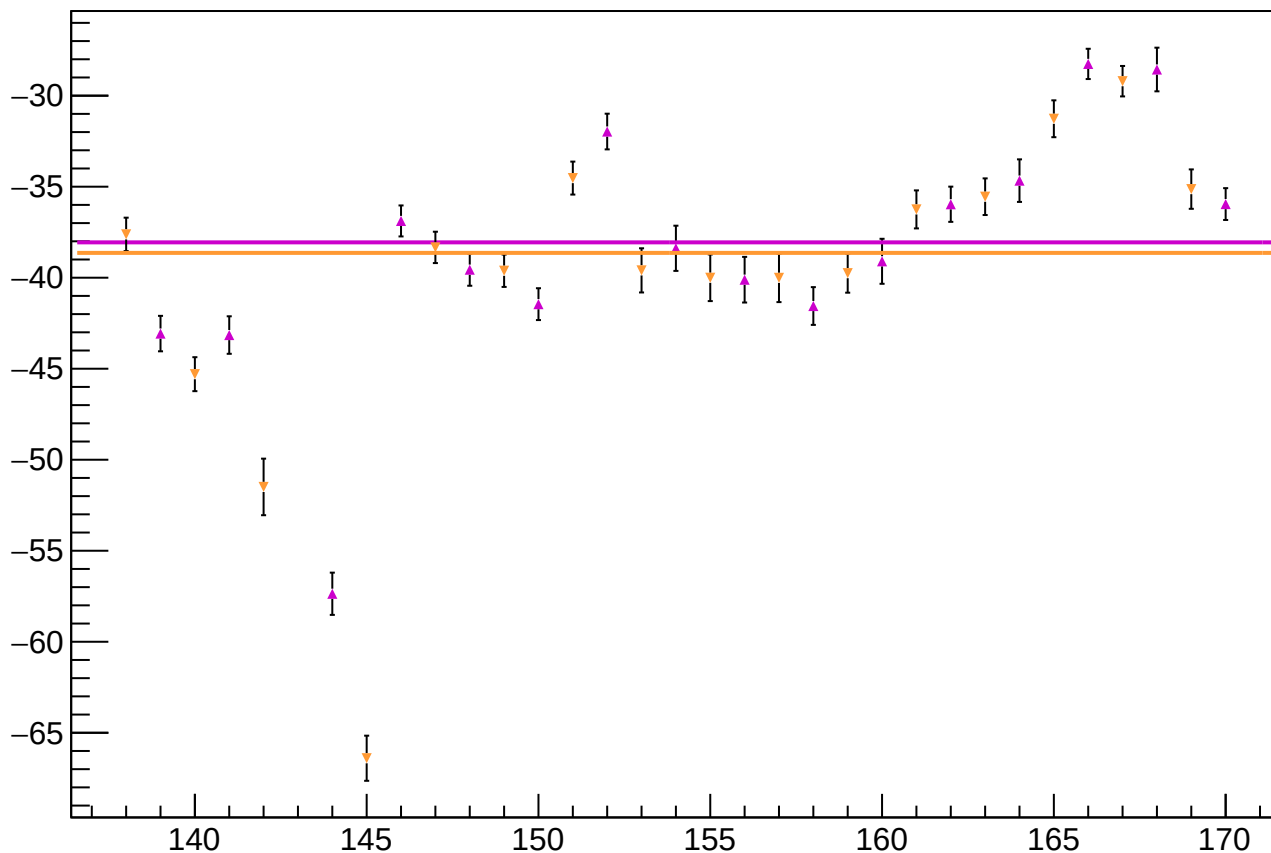
Right: -0.006+/-0.001 χ^2 /NDF: 193.3/33

In: -0.009+/-0.001 χ^2 /NDF:61.3/31

Out: -0.008+/-0.001 χ^2 /NDF:178.4/33

All: -0.009+/-0.001 χ^2 /NDF: 240.2/65

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -38.636+/-0.257 χ^2/NDF :853.3/15
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -38.058+/-0.251 χ^2/NDF :621.5/15

Left: -38.340+/-0.180 χ^2/NDF : 1477.4/31

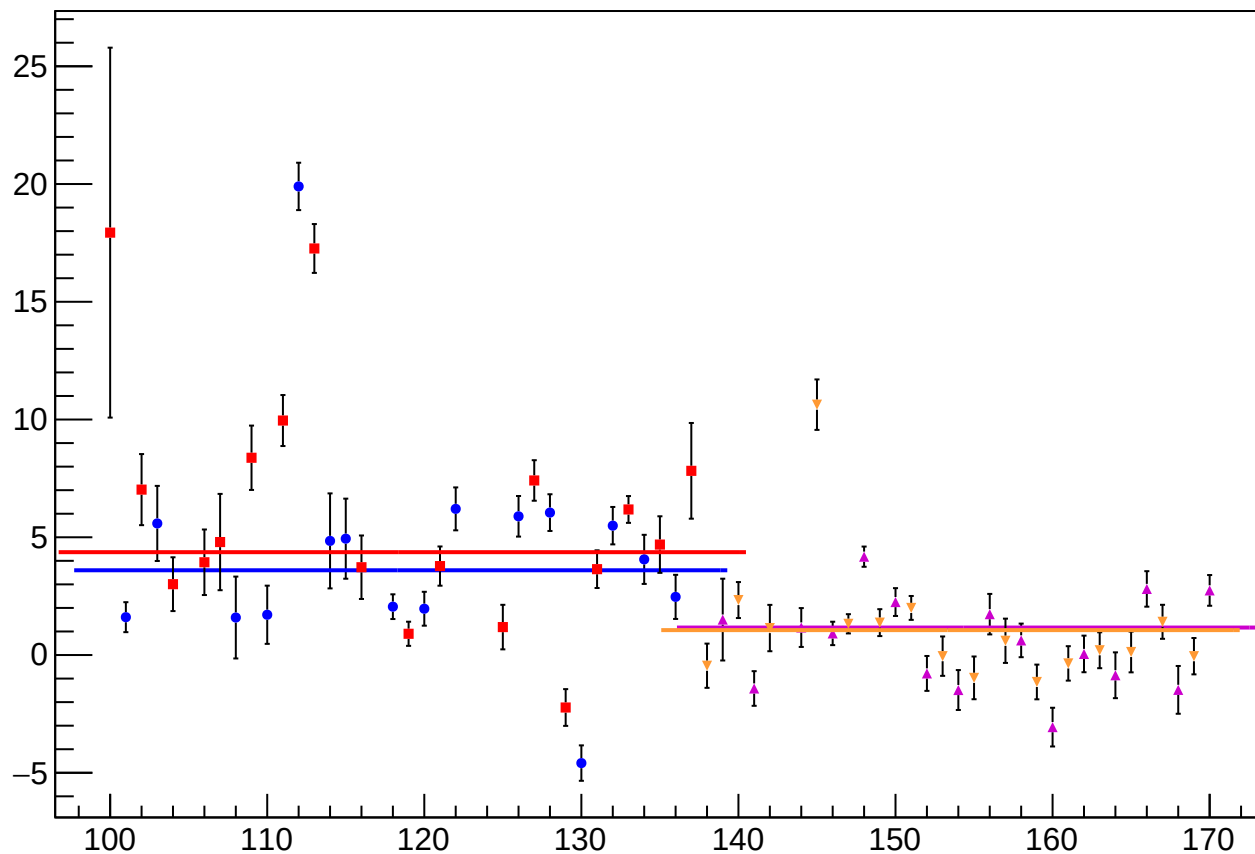
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -38.058+/-0.251 χ^2/NDF :621.5/15

Out: -38.636+/-0.257 χ^2/NDF :853.3/15

All: -38.340+/-0.180 χ^2/NDF : 1477.4/31

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.599 ± 0.220 $\chi^2/\text{NDF}: 443.4/15$

Left Out: 1.058 ± 0.177 $\chi^2/\text{NDF}: 113.8/15$

Right Out: 4.367 ± 0.225 $\chi^2/\text{NDF}: 353.1/17$

Left In: 1.167 ± 0.177 $\chi^2/\text{NDF}: 133.2/15$

Left: 1.112 ± 0.125 $\chi^2/\text{NDF}: 247.2/31$

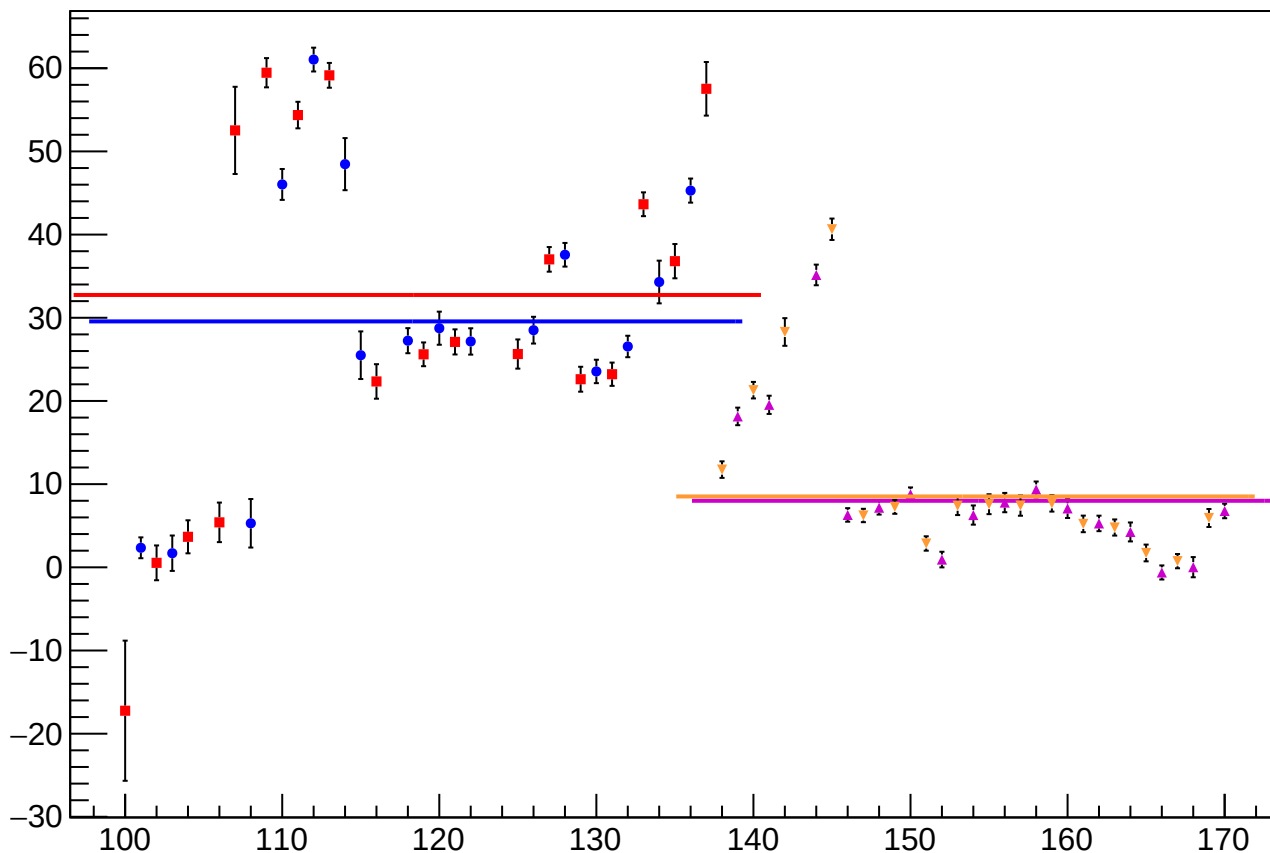
Right: 3.975 ± 0.157 $\chi^2/\text{NDF}: 802.5/33$

In: 2.123 ± 0.138 $\chi^2/\text{NDF}: 650.6/31$

Out: 2.326 ± 0.139 $\chi^2/\text{NDF}: 600.5/33$

All: 2.224 ± 0.098 $\chi^2/\text{NDF}: 1252.2/65$

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.564 $\pm$ 0.420 χ^2 /NDF: 1494.6/15

Left Out: 8.519 $\pm$ 0.252 χ^2 /NDF:1156.4/15

Right Out: 32.741 $\pm$ 0.423 χ^2 /NDF: 1663.3/17

Left In: 8.000 $\pm$ 0.245 χ^2 /NDF:917.7/15

Left: 8.252 $\pm$ 0.176 χ^2 /NDF: 2076.3/31

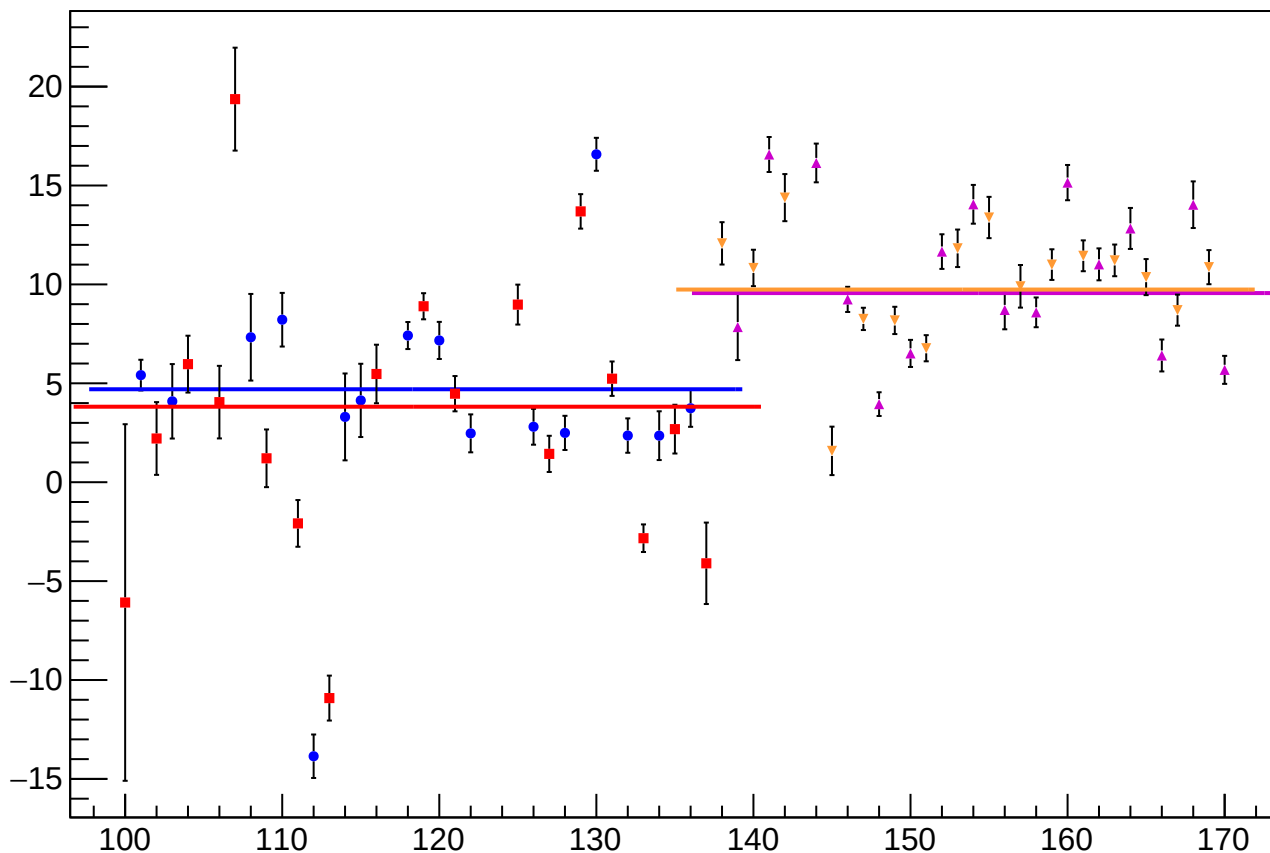
Right: 31.140 $\pm$ 0.298 χ^2 /NDF: 3186.3/33

In: 13.494 $\pm$ 0.212 χ^2 /NDF:4381.1/31

Out: 14.868 $\pm$ 0.216 χ^2 /NDF:5242.3/33

All: 14.166 $\pm$ 0.151 χ^2 /NDF: 9643.9/65

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.699 ± 0.254 χ^2/NDF : 548.9/15

Left Out: 9.740 ± 0.209 χ^2/NDF : 129.8/15

Right Out: 3.817 ± 0.258 χ^2/NDF : 567.6/17

Left In: 9.562 ± 0.208 χ^2/NDF : 357.9/15

Left: 9.650 ± 0.147 χ^2/NDF : 488.1/31

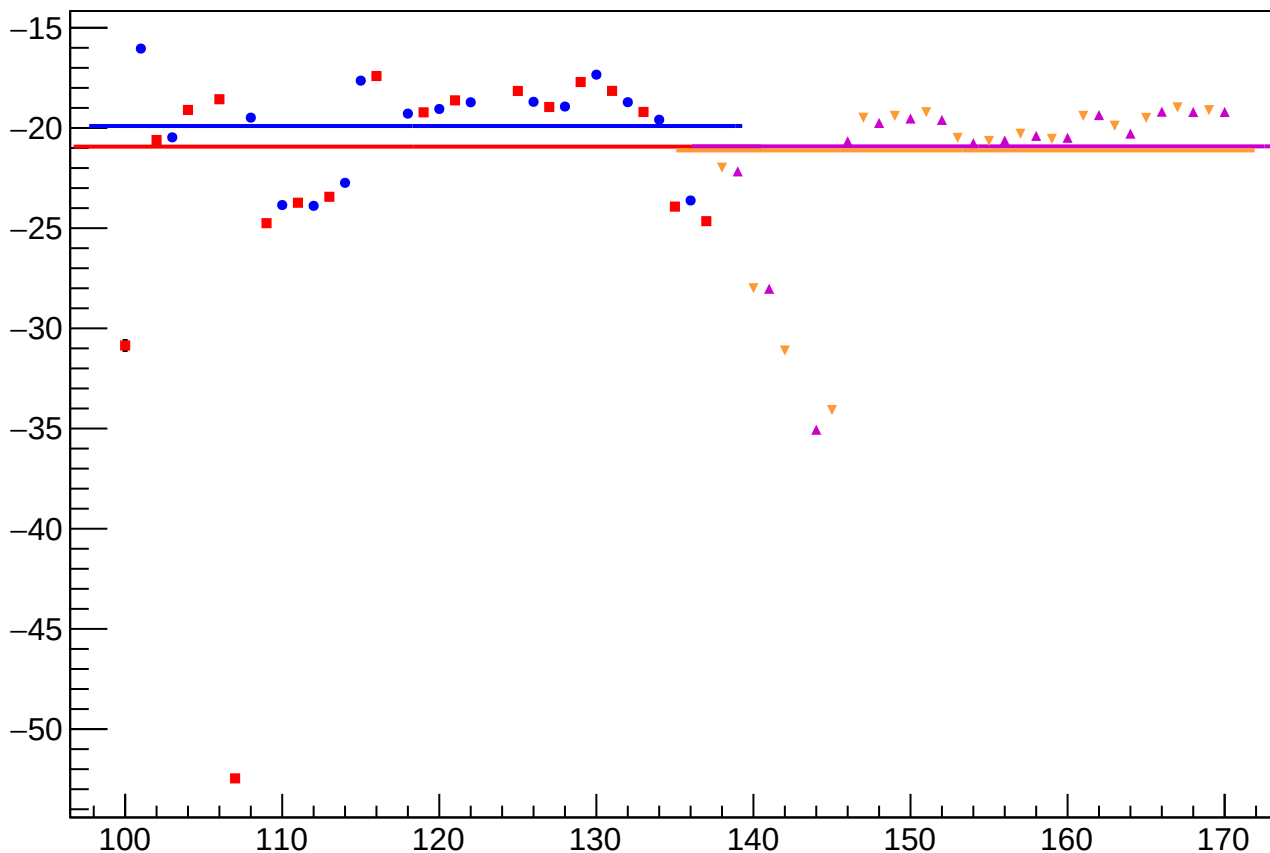
Right: 4.265 ± 0.181 χ^2/NDF : 1122.4/33

In: 7.614 ± 0.161 χ^2/NDF : 1126.5/31

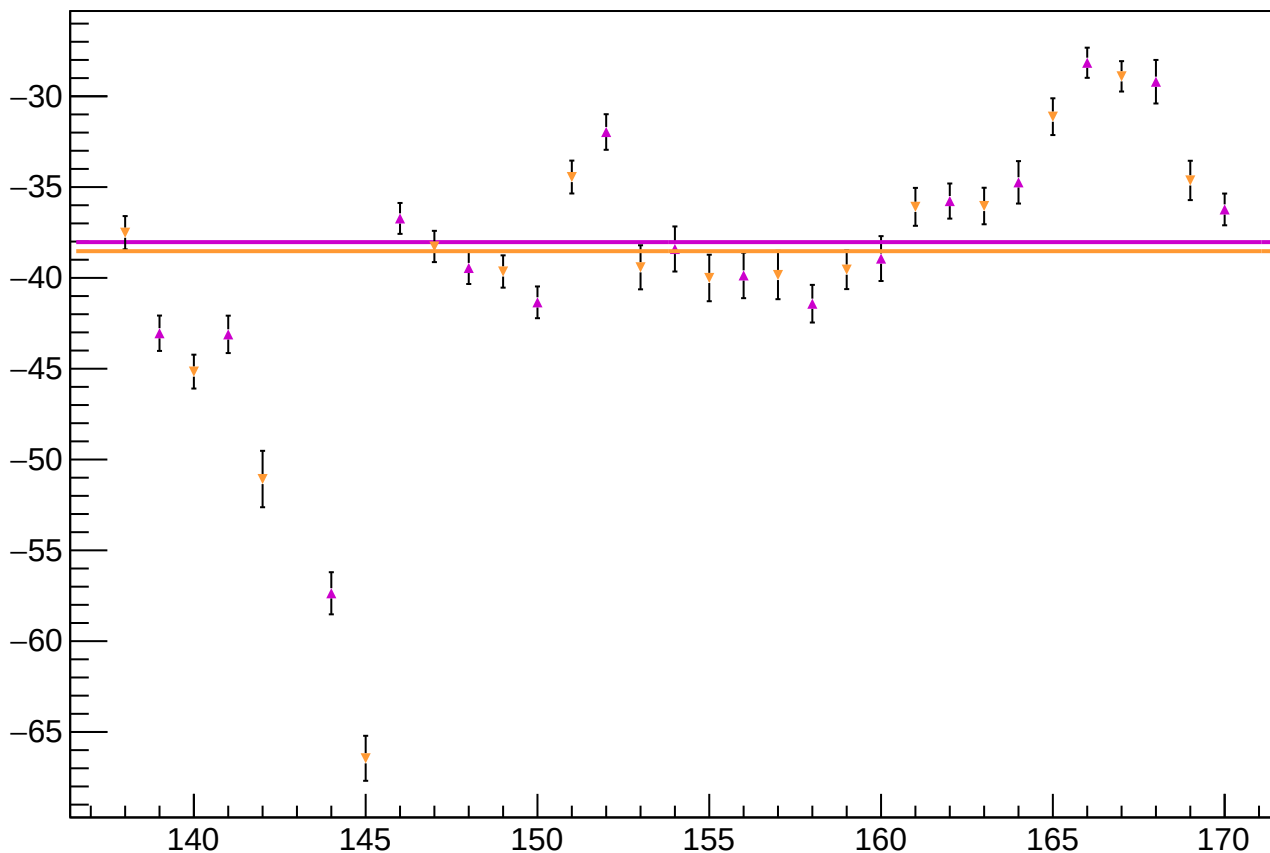
Out: 7.398 ± 0.163 χ^2/NDF : 1015.0/33

All: 7.507 ± 0.114 χ^2/NDF : 2142.4/65

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



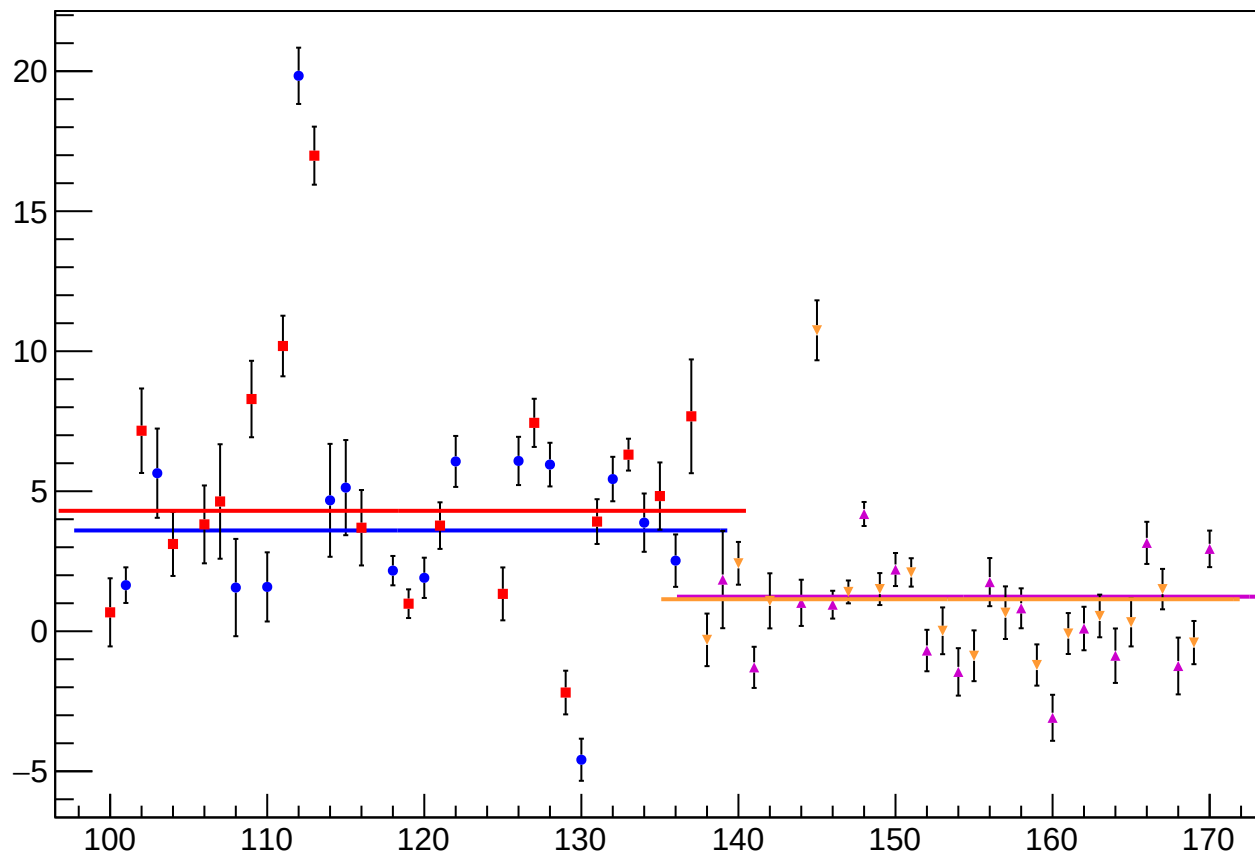
Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left Out: -38.529 $\pm$ 0.257 χ^2/NDF :861.4/15
 Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left In: -38.030 $\pm$ 0.251 χ^2/NDF :613.3/15

Left: -38.274 $\pm$ 0.180 χ^2/NDF : 1476.6/31
 Right: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

In: -38.030 $\pm$ 0.251 χ^2/NDF :613.3/15
 Out: -38.529 $\pm$ 0.257 χ^2/NDF :861.4/15

All: -38.274 $\pm$ 0.180 χ^2/NDF : 1476.6/31

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.599 $\pm$ 0.220 χ^2 /NDF: 440.3/15

Left Out: 1.144 $\pm$ 0.177 χ^2 /NDF:115.9/15

Right Out: 4.301 $\pm$ 0.221 χ^2 /NDF: 352.1/17

Left In: 1.235 $\pm$ 0.177 χ^2 /NDF:133.8/15

Left: 1.189 $\pm$ 0.125 χ^2 /NDF: 249.8/31

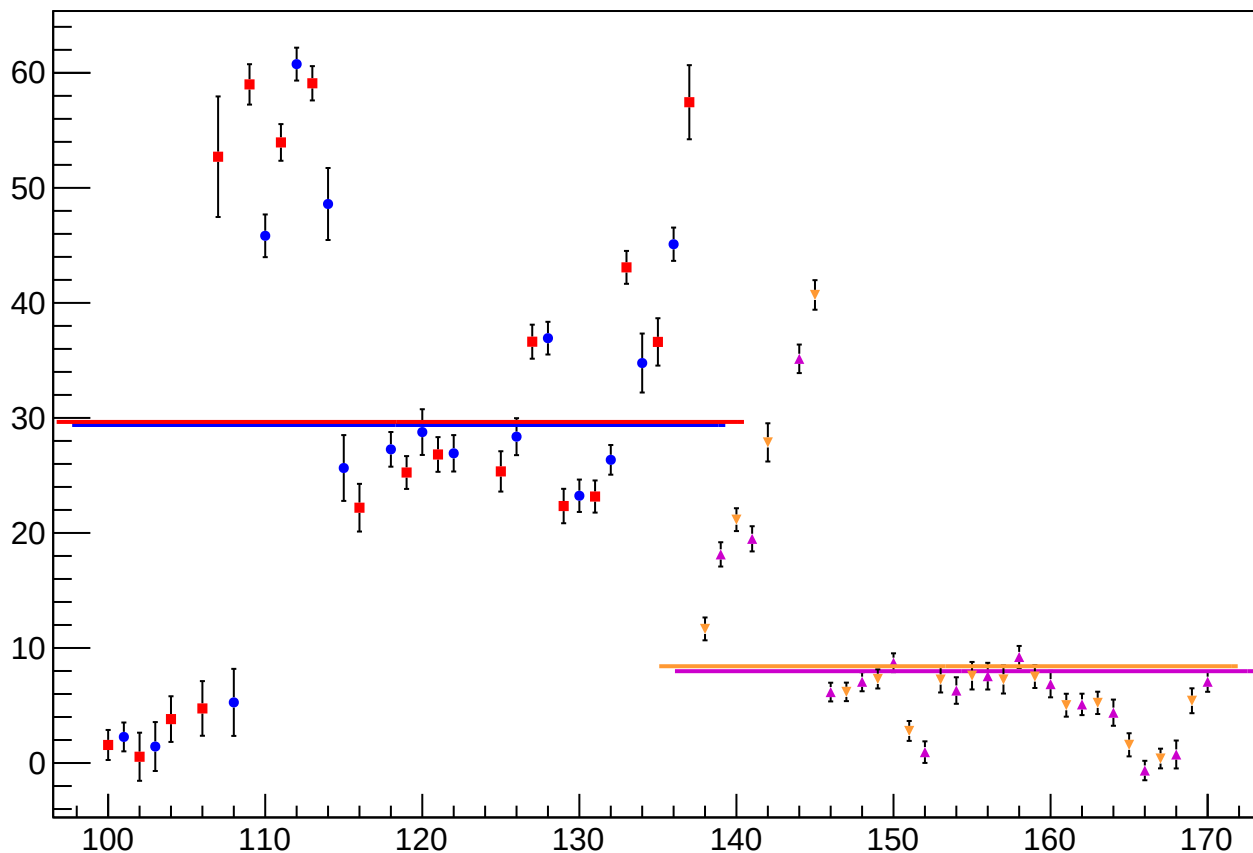
Right: 3.949 $\pm$ 0.156 χ^2 /NDF: 797.4/33

In: 2.164 $\pm$ 0.138 χ^2 /NDF:644.1/31

Out: 2.378 $\pm$ 0.138 χ^2 /NDF:592.3/33

All: 2.271 $\pm$ 0.098 χ^2 /NDF: 1237.5/65

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.387 $\pm$ 0.419 χ^2 /NDF: 1488.6/15

Left Out: 8.413 $\pm$ 0.252 χ^2 /NDF:1162.0/15

Right Out: 29.652 $\pm$ 0.402 χ^2 /NDF: 2131.0/17

Left In: 7.982 $\pm$ 0.245 χ^2 /NDF:911.3/15

Left: 8.192 $\pm$ 0.176 χ^2 /NDF: 2074.9/31

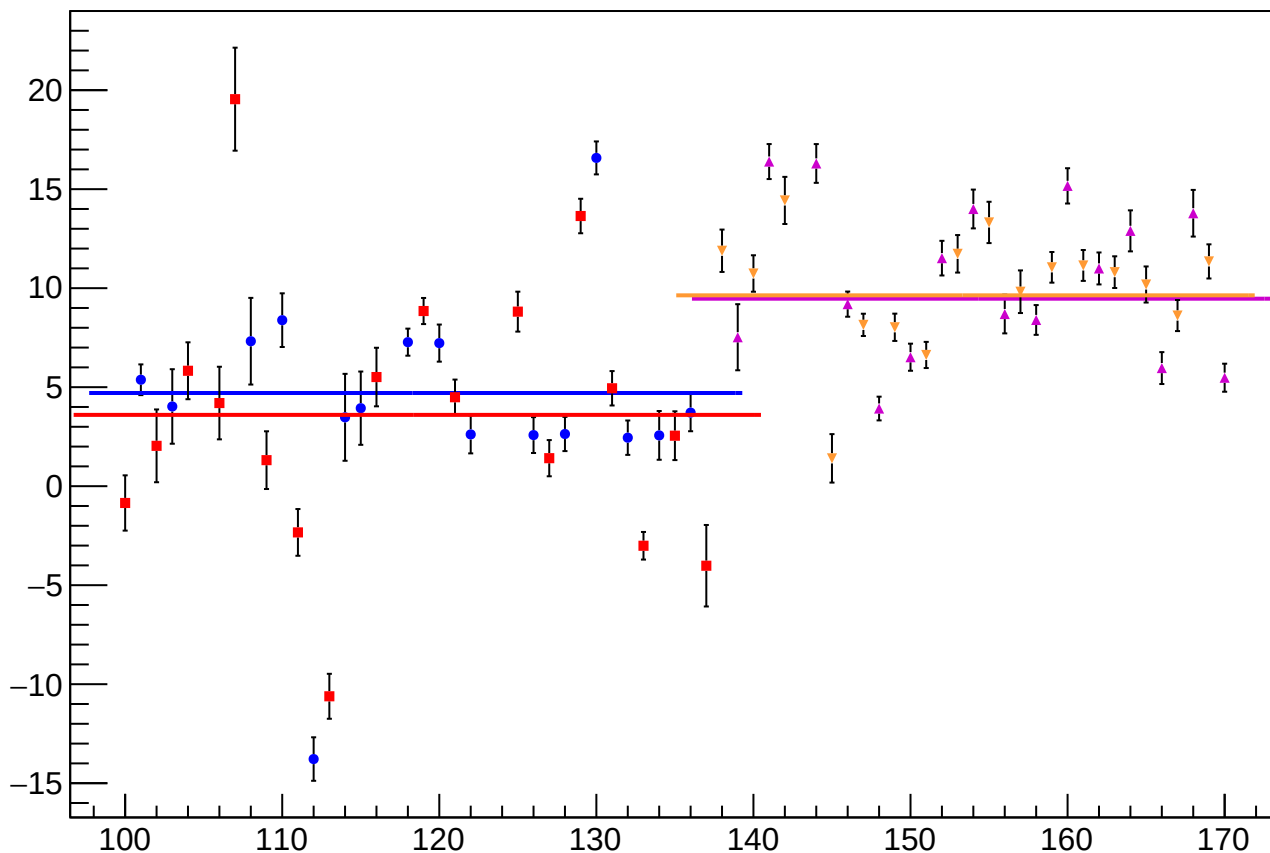
Right: 29.525 $\pm$ 0.290 χ^2 /NDF: 3619.8/33

In: 13.437 $\pm$ 0.212 χ^2 /NDF:4342.3/31

Out: 14.390 $\pm$ 0.213 χ^2 /NDF:5295.3/33

All: 13.910 $\pm$ 0.150 χ^2 /NDF: 9647.7/65

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.706 $\pm$ 0.254 χ^2 /NDF: 545.2/15

Left Out: 9.638 $\pm$ 0.209 χ^2 /NDF:133.2/15

Right Out: 3.601 $\pm$ 0.254 χ^2 /NDF: 573.4/17

Left In: 9.469 $\pm$ 0.208 χ^2 /NDF:365.0/15

Left: 9.553 $\pm$ 0.147 χ^2 /NDF: 498.6/31

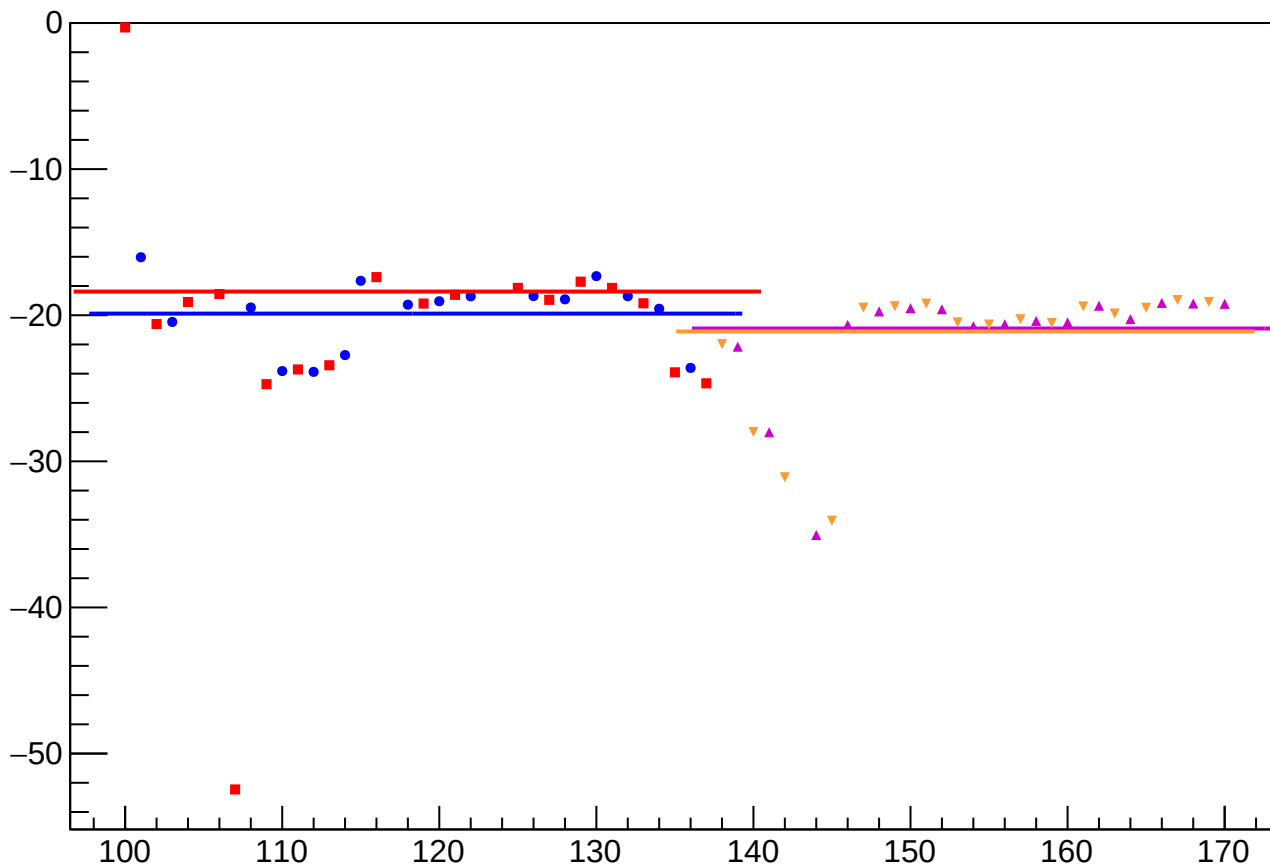
Right: 4.154 $\pm$ 0.180 χ^2 /NDF: 1128.1/33

In: 7.561 $\pm$ 0.161 χ^2 /NDF:1121.2/31

Out: 7.204 $\pm$ 0.161 χ^2 /NDF:1043.6/33

All: 7.383 $\pm$ 0.114 χ^2 /NDF: 2167.3/65

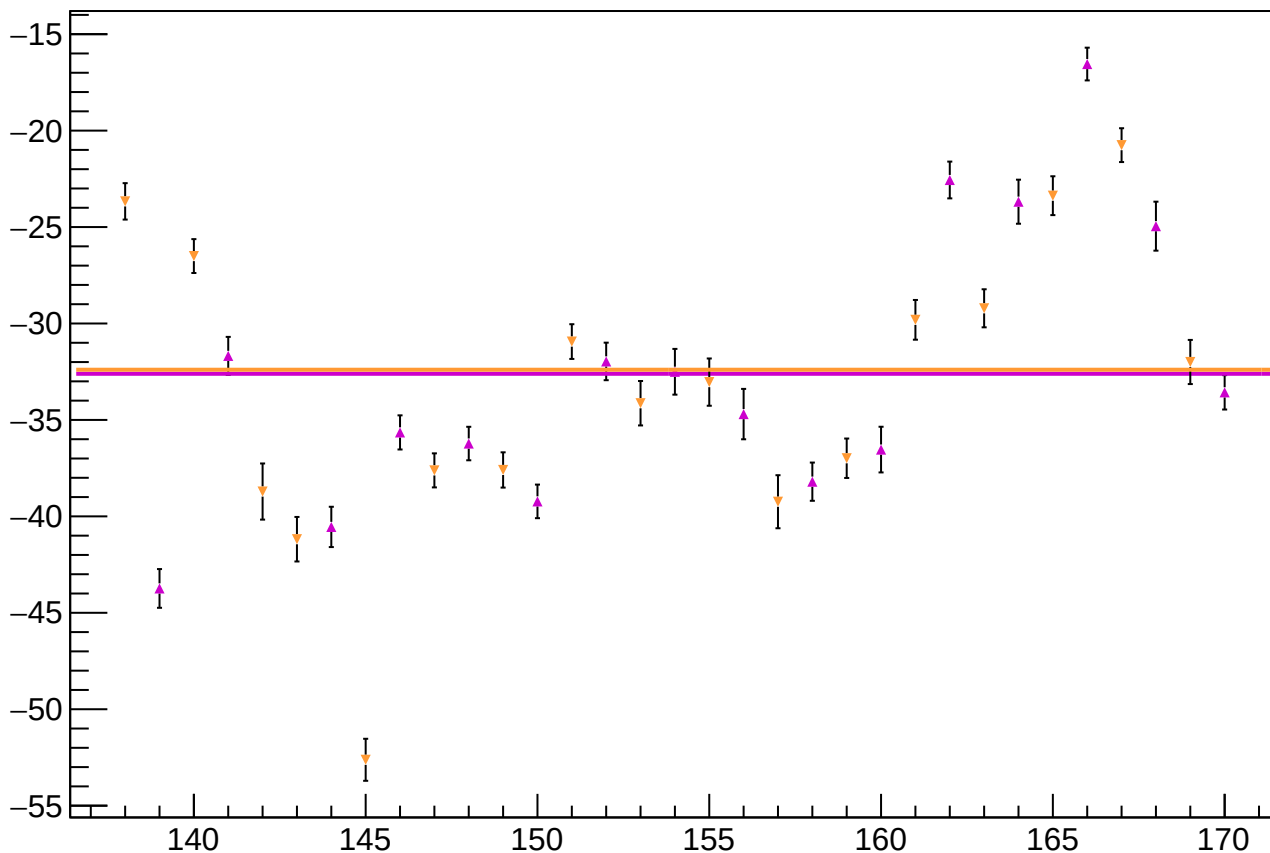
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.890 ± 0.016 $\chi^2/\text{NDF}: 26044.4/15$
 Left Out: -21.112 ± 0.010 $\chi^2/\text{NDF}: 131565.2/15$
 Right Out: -18.380 ± 0.015 $\chi^2/\text{NDF}: 300999.4/17$
 Left In: -20.910 ± 0.010 $\chi^2/\text{NDF}: 106982.9/15$

Left: -21.007 ± 0.007 $\chi^2/\text{NDF}: 238758.8/31$
 Right: -19.091 ± 0.011 $\chi^2/\text{NDF}: 331979.2/33$
 In: -20.627 ± 0.008 $\chi^2/\text{NDF}: 136097.9/31$
 Out: -20.250 ± 0.008 $\chi^2/\text{NDF}: 456055.0/33$
 All: -20.440 ± 0.006 $\chi^2/\text{NDF}: 593193.1/65$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



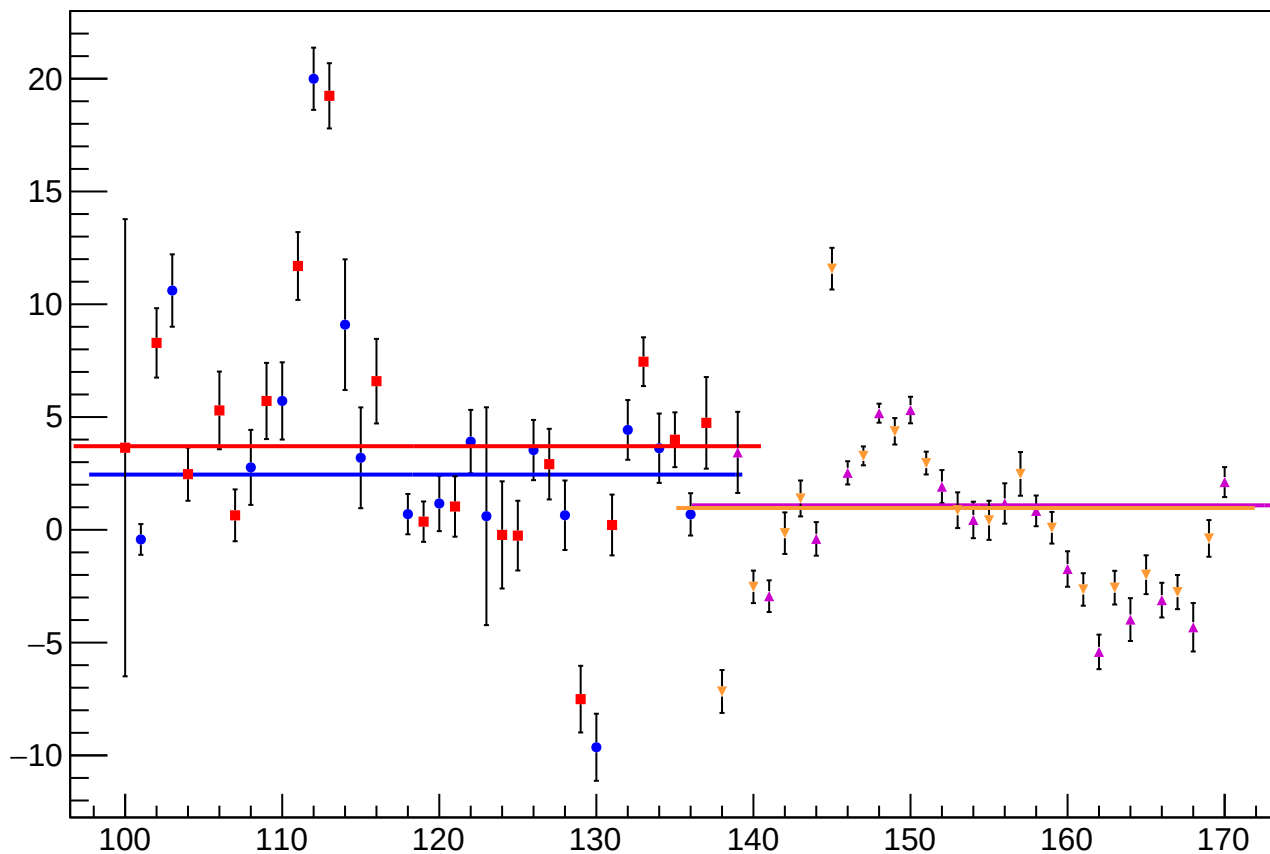
Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -32.397+/-0.249 χ^2/NDF :942.9/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -32.608+/-0.249 χ^2/NDF :881.8/15

Left: -32.502+/-0.176 χ^2/NDF : 1825.0/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -32.608+/-0.249 χ^2/NDF :881.8/15
 Out: -32.397+/-0.249 χ^2/NDF :942.9/16

All: -32.502+/-0.176 χ^2/NDF : 1825.0/32

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.449 ± 0.314 $\chi^2/\text{NDF}: 295.3/16$

Left Out: 0.968 ± 0.172 $\chi^2/\text{NDF}: 400.7/16$

Right Out: 3.707 ± 0.326 $\chi^2/\text{NDF}: 269.4/18$

Left In: 1.086 ± 0.176 $\chi^2/\text{NDF}: 364.9/15$

Left: 1.026 ± 0.123 $\chi^2/\text{NDF}: 765.8/32$

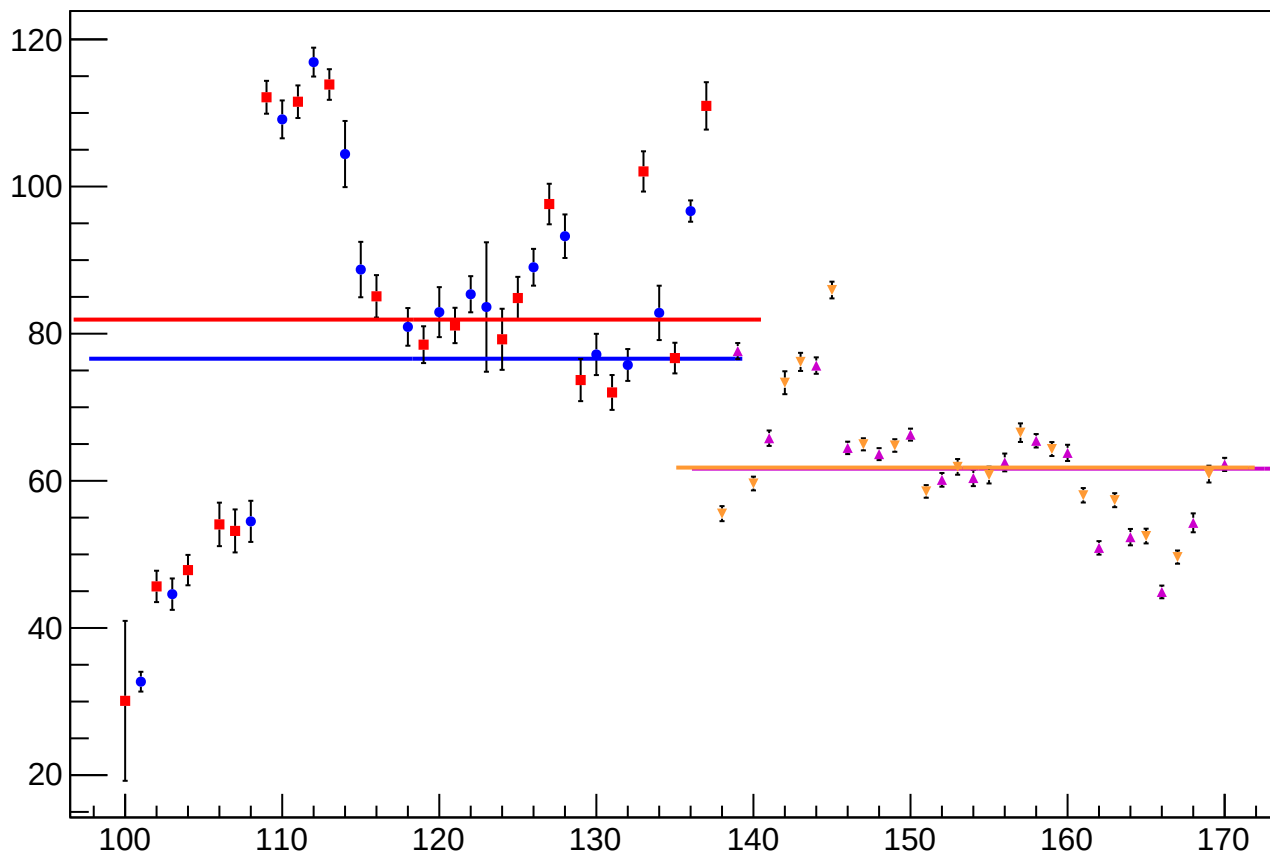
Right: 3.055 ± 0.226 $\chi^2/\text{NDF}: 572.4/35$

In: 1.409 ± 0.153 $\chi^2/\text{NDF}: 674.5/32$

Out: 1.563 ± 0.152 $\chi^2/\text{NDF}: 725.3/35$

All: 1.487 ± 0.108 $\chi^2/\text{NDF}: 1400.3/68$

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.598 $\pm$ 0.576 χ^2 /NDF: 2255.1/16

Left Out: 61.801 $\pm$ 0.245 χ^2 /NDF:1054.1/16

Right Out: 81.916 $\pm$ 0.592 χ^2 /NDF: 1570.7/18

Left In: 61.654 $\pm$ 0.244 χ^2 /NDF:1079.9/15

Left: 61.727 $\pm$ 0.173 χ^2 /NDF: 2134.2/32

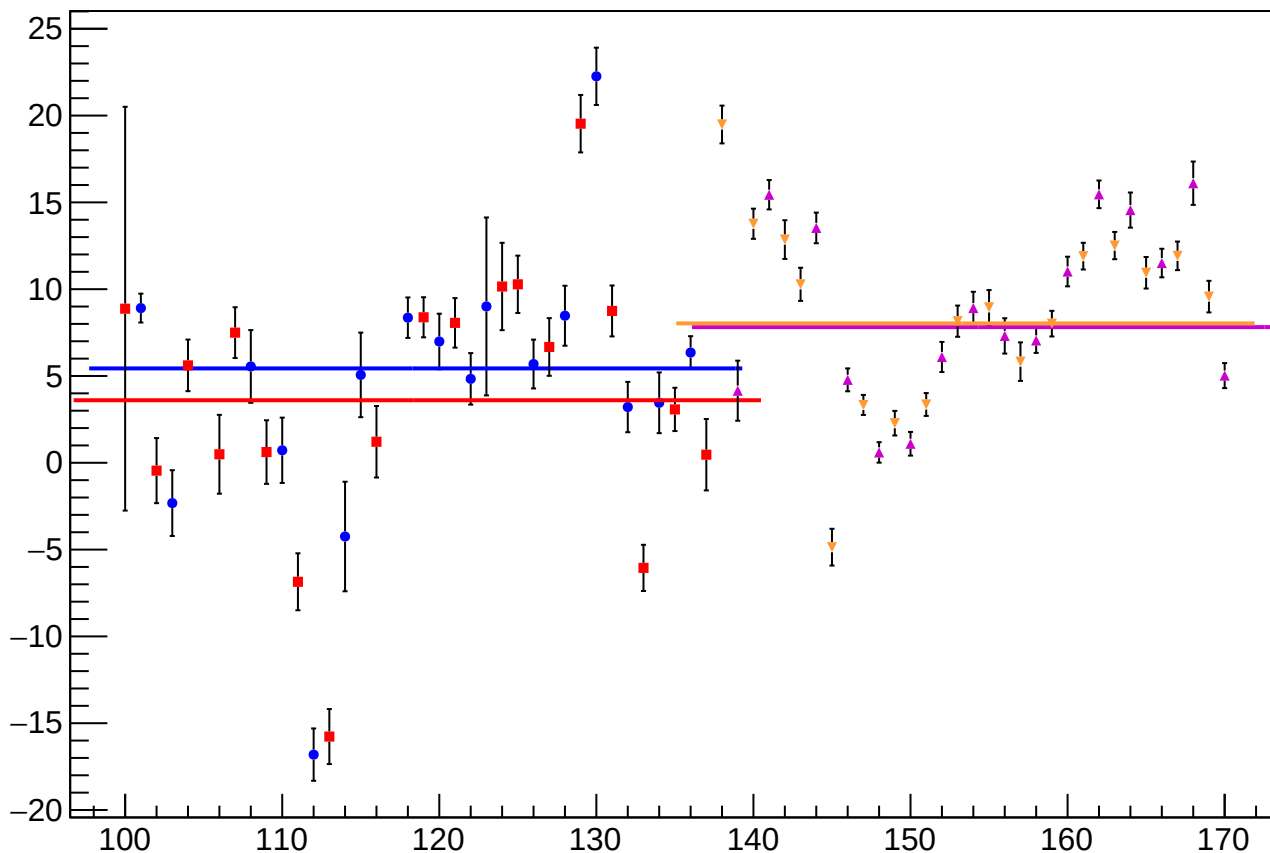
Right: 79.184 $\pm$ 0.413 χ^2 /NDF: 3867.3/35

In: 63.922 $\pm$ 0.224 χ^2 /NDF:3905.9/32

Out: 64.743 $\pm$ 0.226 χ^2 /NDF:3610.3/35

All: 64.329 $\pm$ 0.159 χ^2 /NDF: 7522.8/68

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.436 ± 0.360 $\chi^2/\text{NDF}: 387.2/16$

Left Out: 8.030 ± 0.203 $\chi^2/\text{NDF}: 608.0/16$

Right Out: 3.602 ± 0.375 $\chi^2/\text{NDF}: 423.3/18$

Left In: 7.815 ± 0.206 $\chi^2/\text{NDF}: 632.5/15$

Left: 7.924 ± 0.144 $\chi^2/\text{NDF}: 1241.0/32$

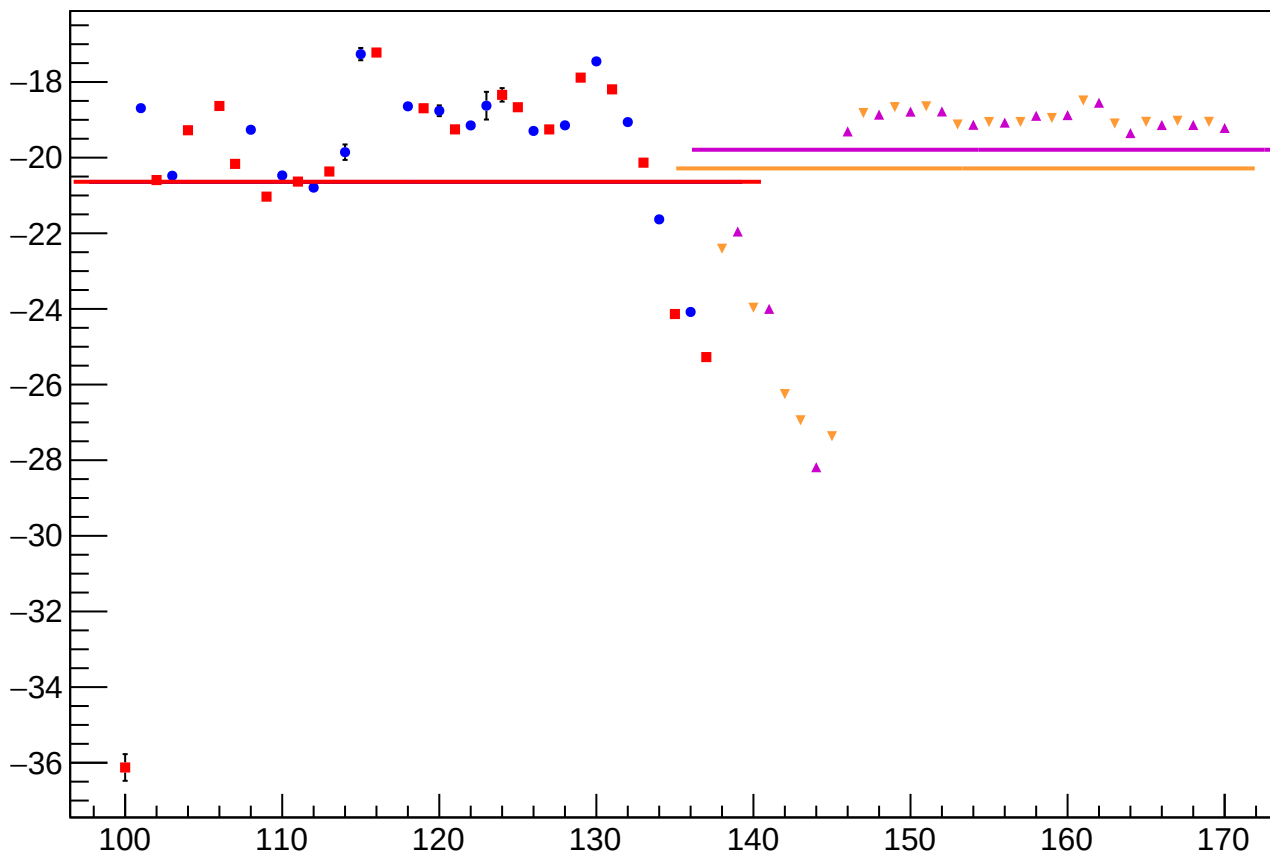
Right: 4.556 ± 0.260 $\chi^2/\text{NDF}: 823.0/35$

In: 7.231 ± 0.179 $\chi^2/\text{NDF}: 1052.6/32$

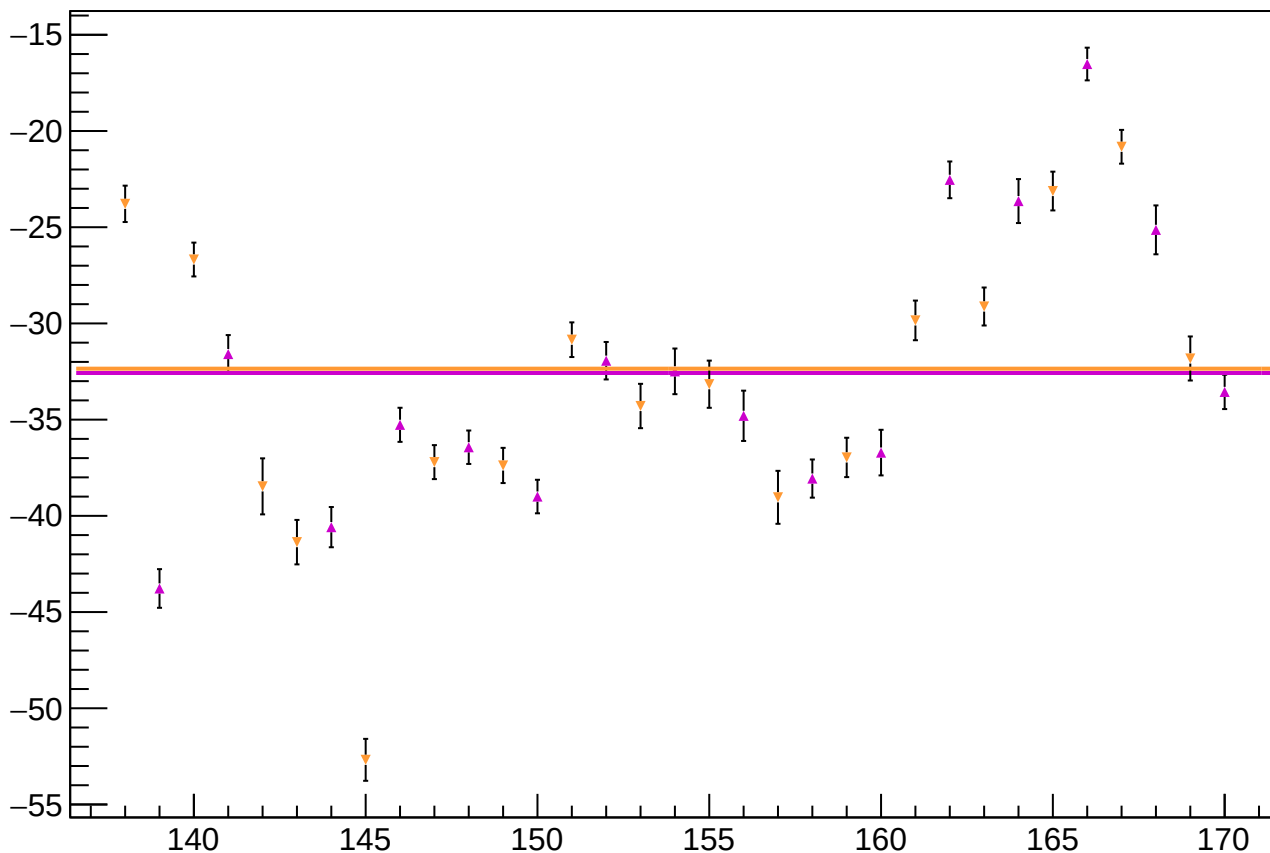
Out: 7.030 ± 0.178 $\chi^2/\text{NDF}: 1139.2/35$

All: 7.130 ± 0.126 $\chi^2/\text{NDF}: 2192.4/68$

reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



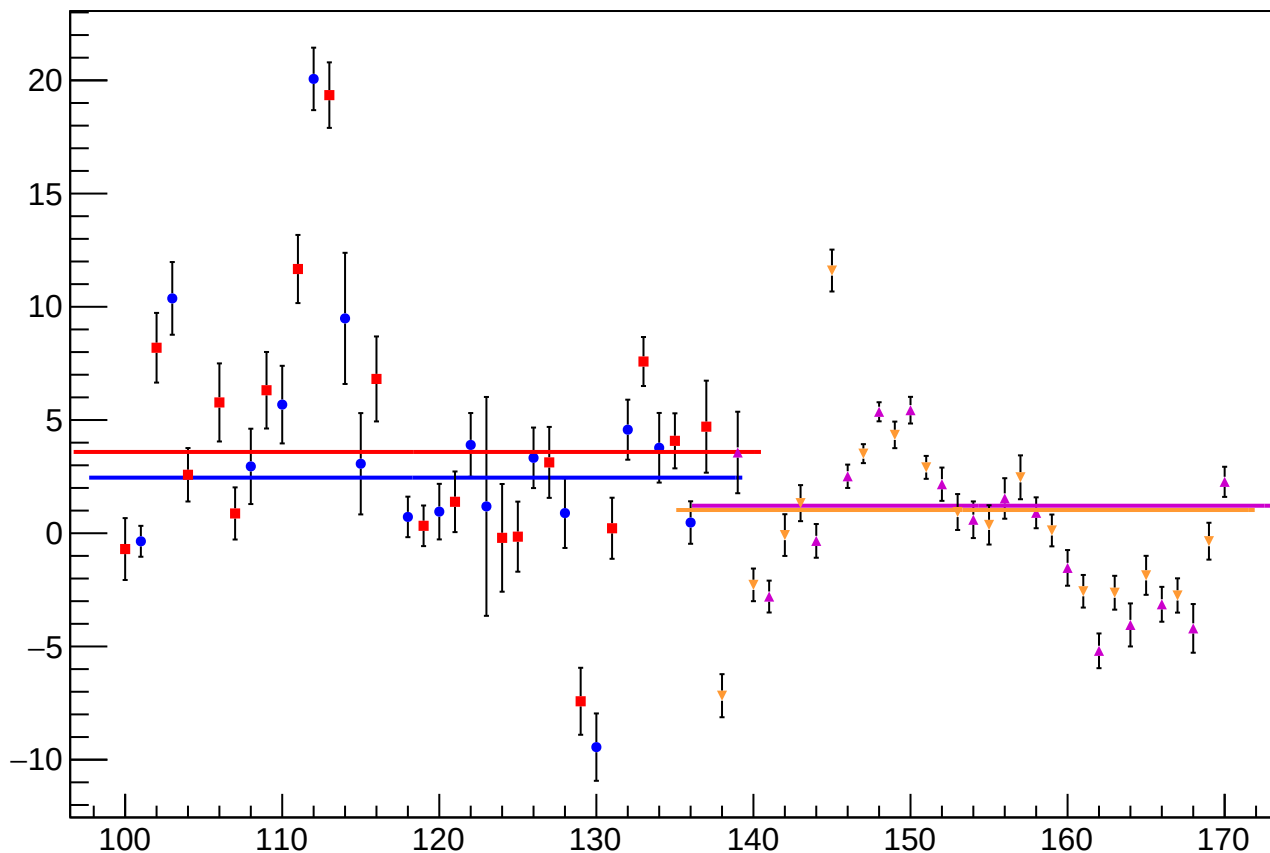
Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -32.351+/-0.249 χ^2/NDF :934.4/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -32.576+/-0.250 χ^2/NDF :877.8/15

Left: -32.463+/-0.176 χ^2/NDF : 1812.6/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -32.576+/-0.250 χ^2/NDF :877.8/15
 Out: -32.351+/-0.249 χ^2/NDF :934.4/16

All: -32.463+/-0.176 χ^2/NDF : 1812.6/32

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.455 $\pm$ 0.315 χ^2 /NDF: 293.5/16

Left Out: 1.026 $\pm$ 0.172 χ^2 /NDF:401.0/16

Right Out: 3.590 $\pm$ 0.318 χ^2 /NDF: 279.8/18

Left In: 1.215 $\pm$ 0.176 χ^2 /NDF:368.4/15

Left: 1.118 $\pm$ 0.123 χ^2 /NDF: 769.9/32

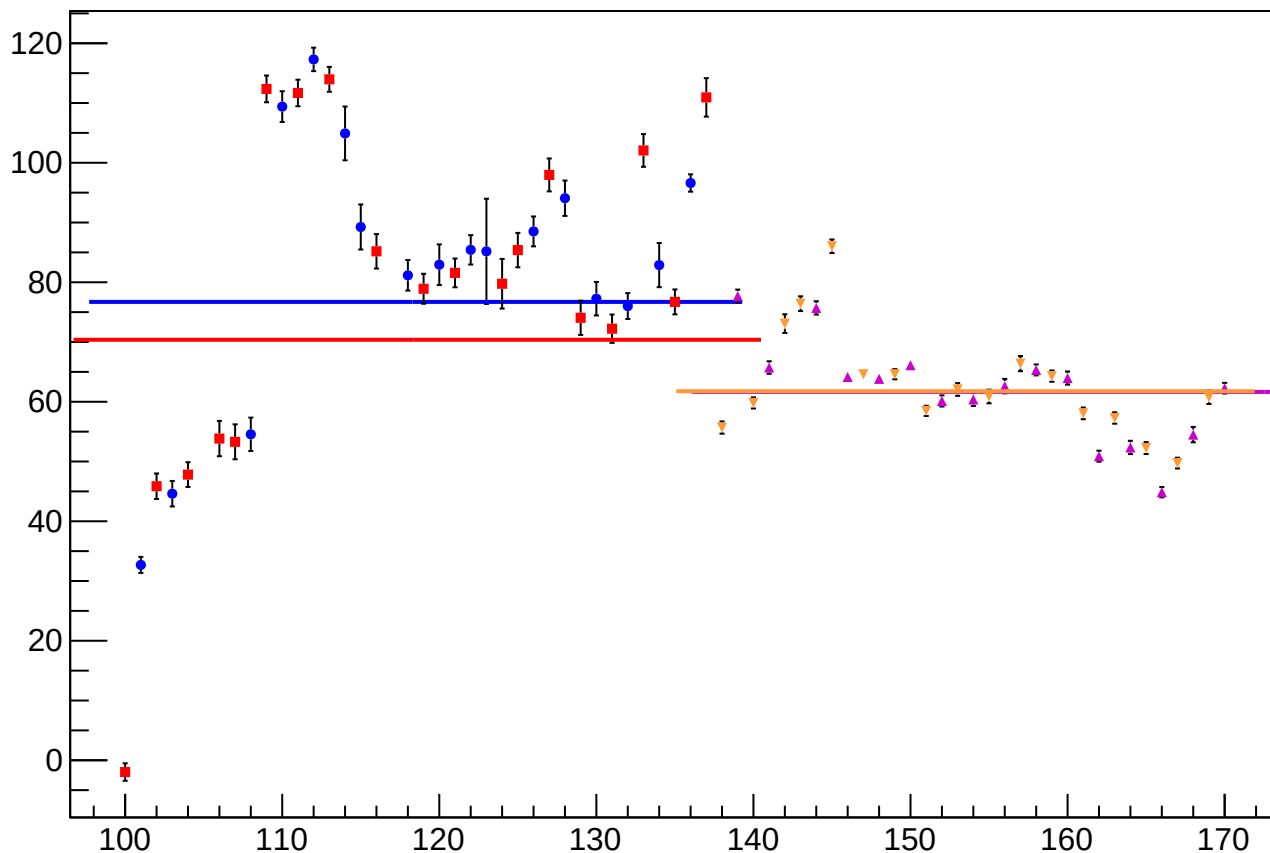
Right: 3.017 $\pm$ 0.224 χ^2 /NDF: 579.8/35

In: 1.510 $\pm$ 0.153 χ^2 /NDF:673.7/32

Out: 1.607 $\pm$ 0.151 χ^2 /NDF:731.2/35

All: 1.559 $\pm$ 0.108 χ^2 /NDF: 1405.1/68

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.713 $\pm$ 0.576 χ^2 /NDF: 2266.6/16

Left Out: 61.764 $\pm$ 0.245 χ^2 /NDF:1053.2/16

Right Out: 70.376 $\pm$ 0.550 χ^2 /NDF: 4390.7/18

Left In: 61.647 $\pm$ 0.244 χ^2 /NDF:1075.6/15

Left: 61.705 $\pm$ 0.173 χ^2 /NDF: 2128.9/32

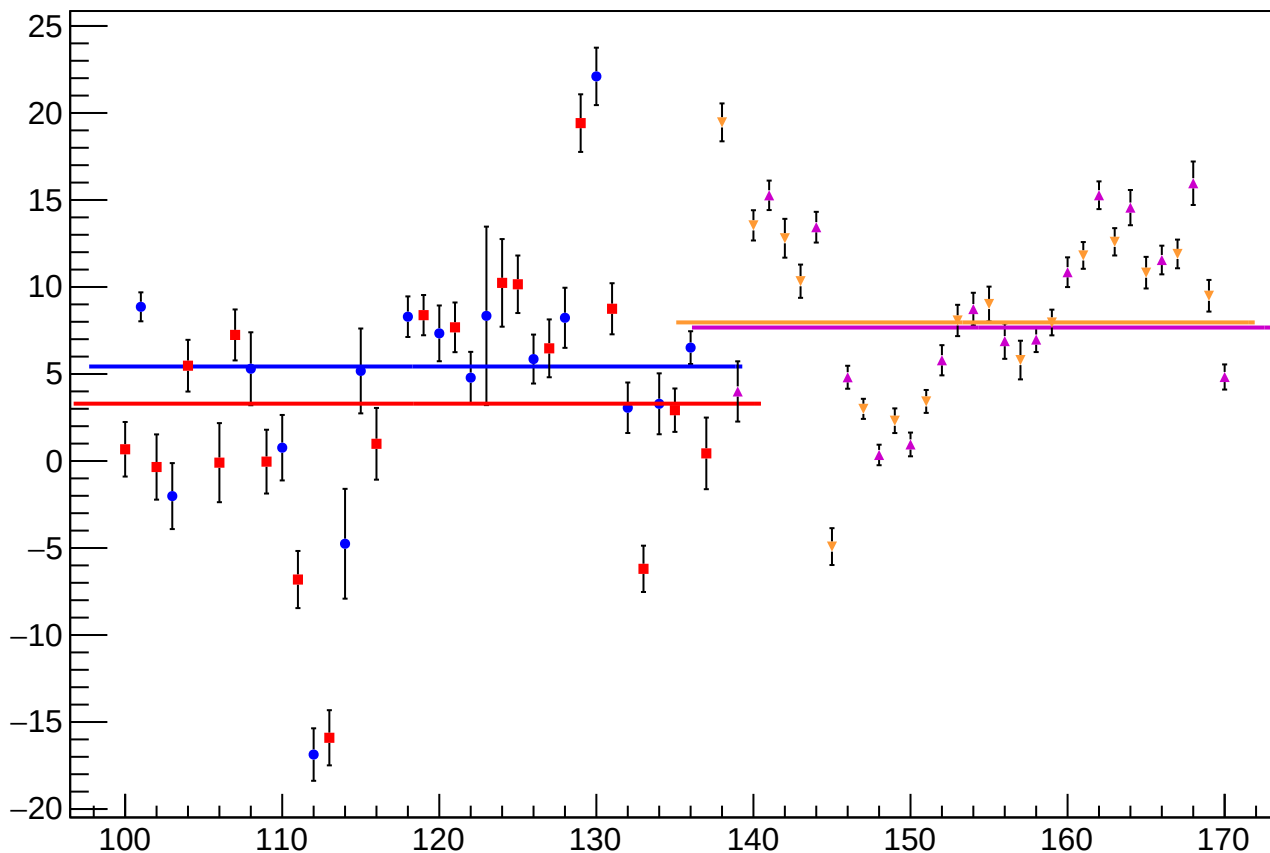
Right: 73.396 $\pm$ 0.398 χ^2 /NDF: 6720.6/35

In: 63.934 $\pm$ 0.225 χ^2 /NDF:3921.7/32

Out: 63.192 $\pm$ 0.224 χ^2 /NDF:5648.5/35

All: 63.562 $\pm$ 0.159 χ^2 /NDF: 9575.7/68

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.430 ± 0.361 $\chi^2/\text{NDF}: 385.9/16$

Left Out: 7.964 ± 0.203 $\chi^2/\text{NDF}: 611.1/16$

Right Out: 3.295 ± 0.365 $\chi^2/\text{NDF}: 426.1/18$

Left In: 7.670 ± 0.206 $\chi^2/\text{NDF}: 638.0/15$

Left: 7.819 ± 0.144 $\chi^2/\text{NDF}: 1250.1/32$

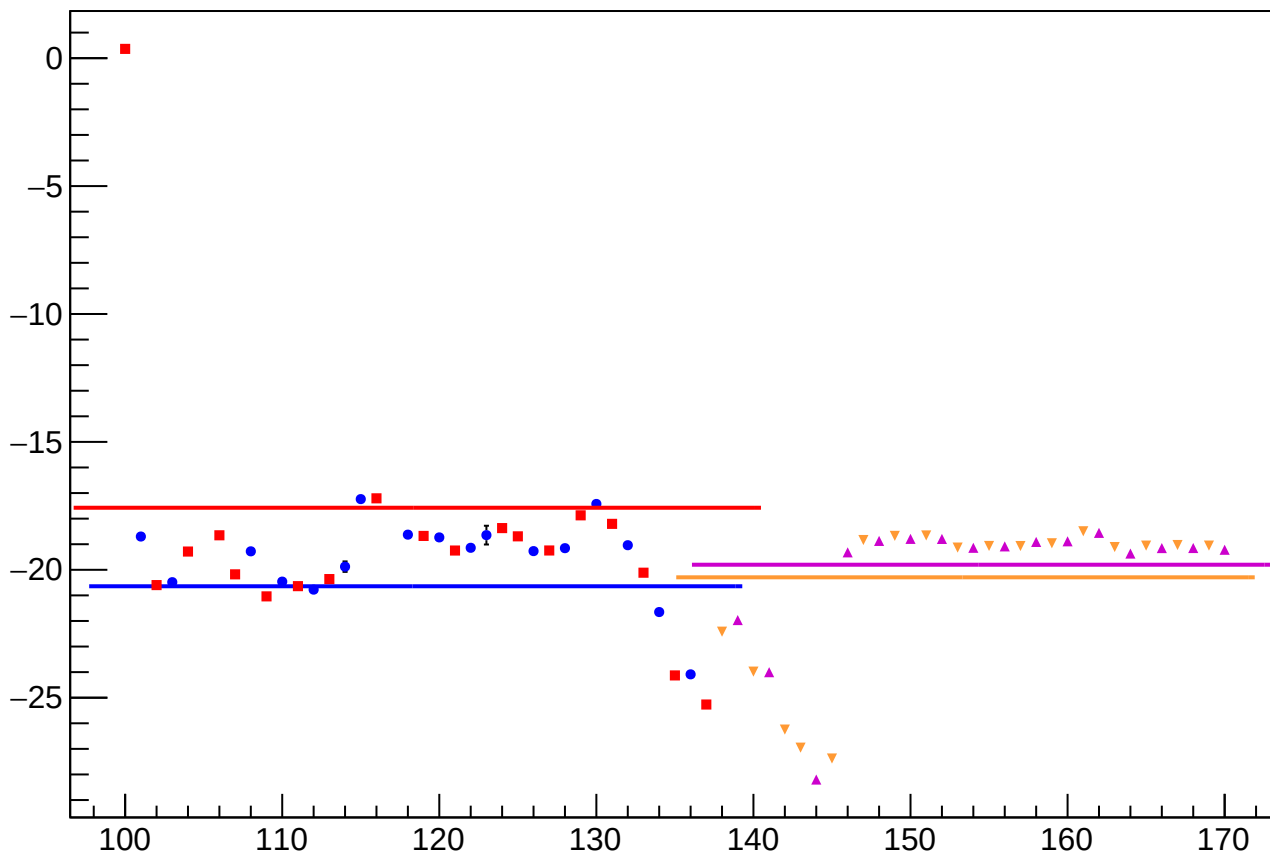
Right: 4.376 ± 0.257 $\chi^2/\text{NDF}: 829.3/35$

In: 7.120 ± 0.179 $\chi^2/\text{NDF}: 1053.0/32$

Out: 6.864 ± 0.177 $\chi^2/\text{NDF}: 1162.2/35$

All: 6.991 ± 0.126 $\chi^2/\text{NDF}: 2216.2/68$

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.643 $\pm$ 0.019 χ^2/NDF : 12468.6/16

Left Out: -20.294 $\pm$ 0.010 χ^2/NDF : 78663.0/16

Right Out: -17.574 $\pm$ 0.018 χ^2/NDF : 178327.0/18

Left In: -19.801 $\pm$ 0.010 χ^2/NDF : 48849.7/15

Left: -20.045 $\pm$ 0.007 χ^2/NDF : 128802.7/32

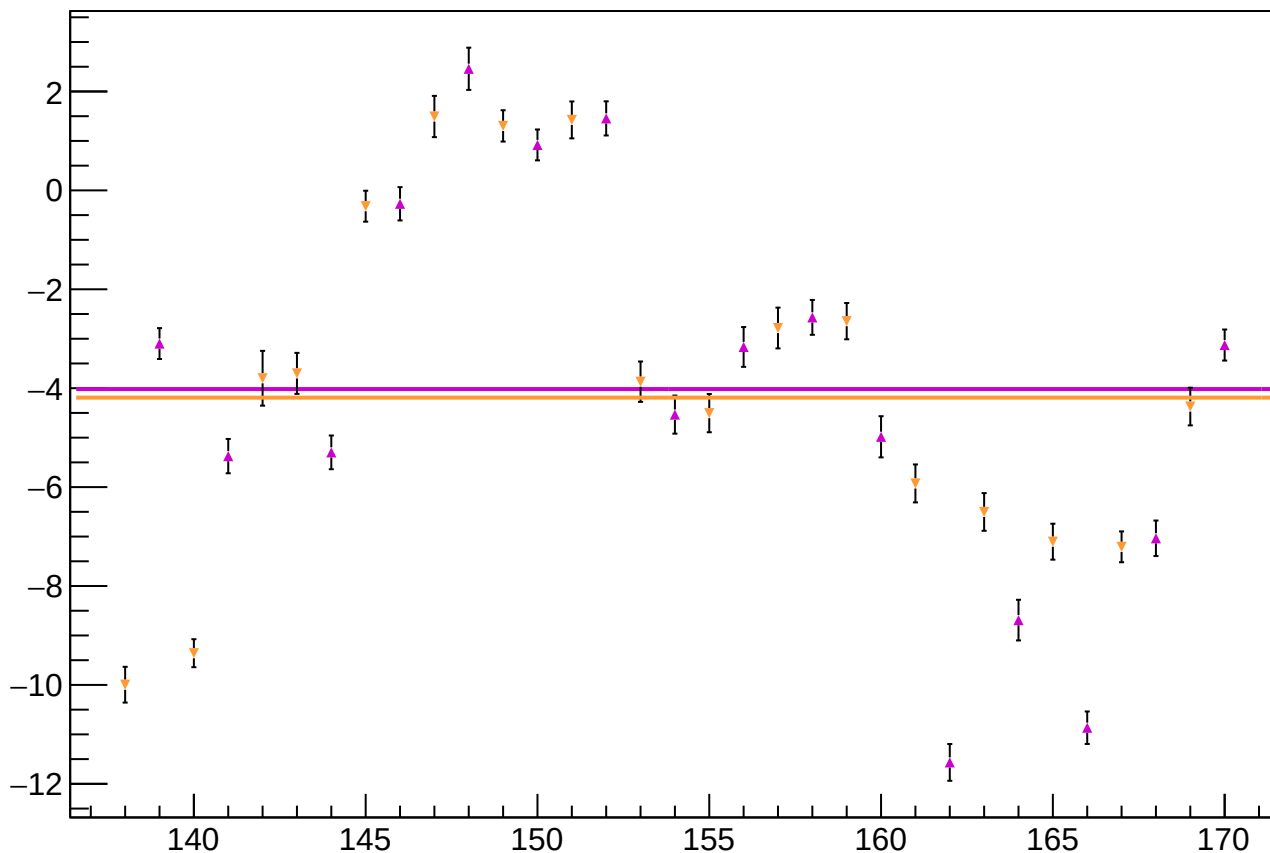
Right: -19.001 $\pm$ 0.013 χ^2/NDF : 204262.7/35

In: -19.969 $\pm$ 0.009 χ^2/NDF : 62835.1/32

Out: -19.679 $\pm$ 0.009 χ^2/NDF : 274595.7/35

All: -19.823 $\pm$ 0.006 χ^2/NDF : 337997.5/68

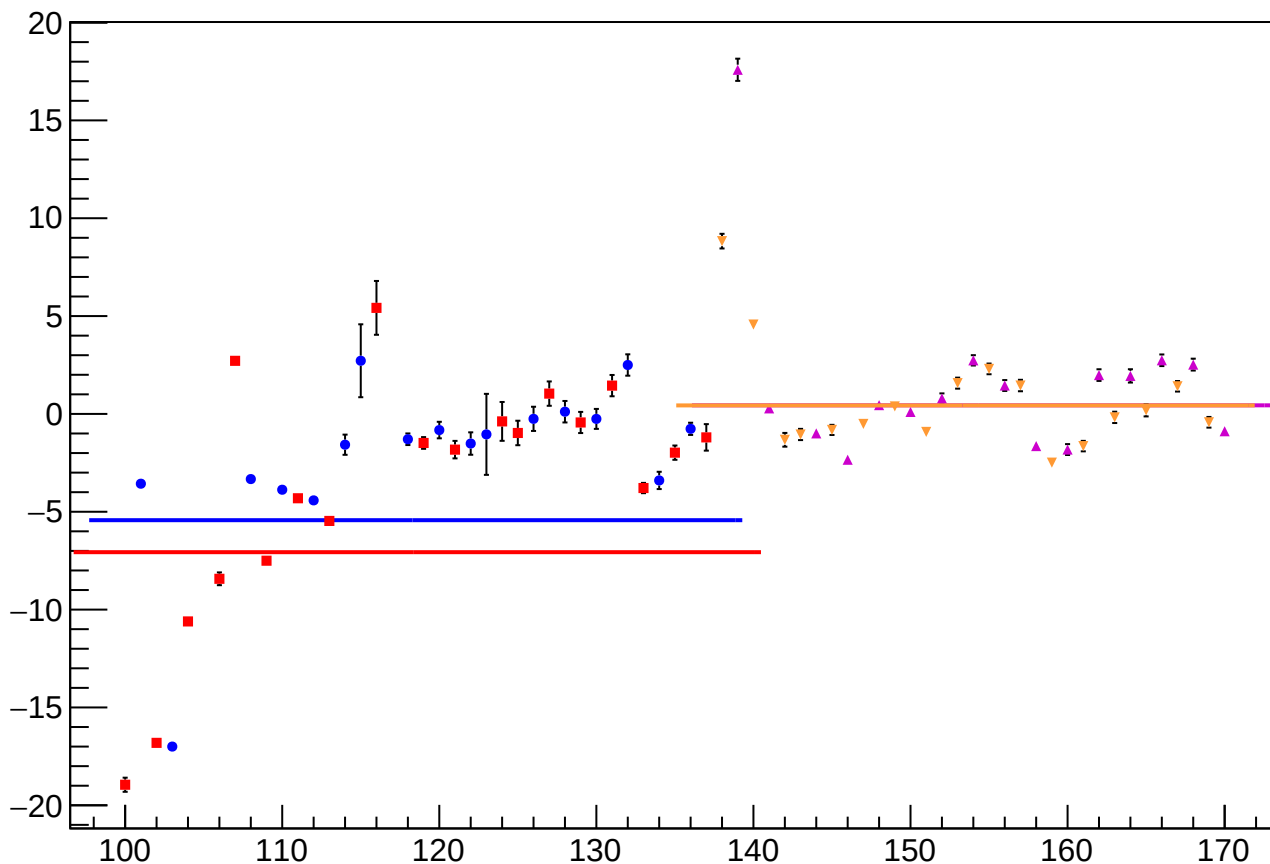
reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -4.191+/-0.089 χ^2/NDF :1705.2/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -4.017+/-0.089 χ^2/NDF :1976.1/15

Left: -4.104+/-0.063 χ^2/NDF : 3683.1/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -4.017+/-0.089 χ^2/NDF :1976.1/15
 Out: -4.191+/-0.089 χ^2/NDF :1705.2/16
 All: -4.104+/-0.063 χ^2/NDF : 3683.1/32

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.431 ± 0.055 χ^2/NDF : 9233.8/16

Left Out: 0.435 ± 0.064 χ^2/NDF : 1243.8/16

Right Out: -7.066 ± 0.059 χ^2/NDF : 12306.6/18

Left In: 0.439 ± 0.065 χ^2/NDF : 1536.8/15

Left: 0.437 ± 0.046 χ^2/NDF : 2780.6/32

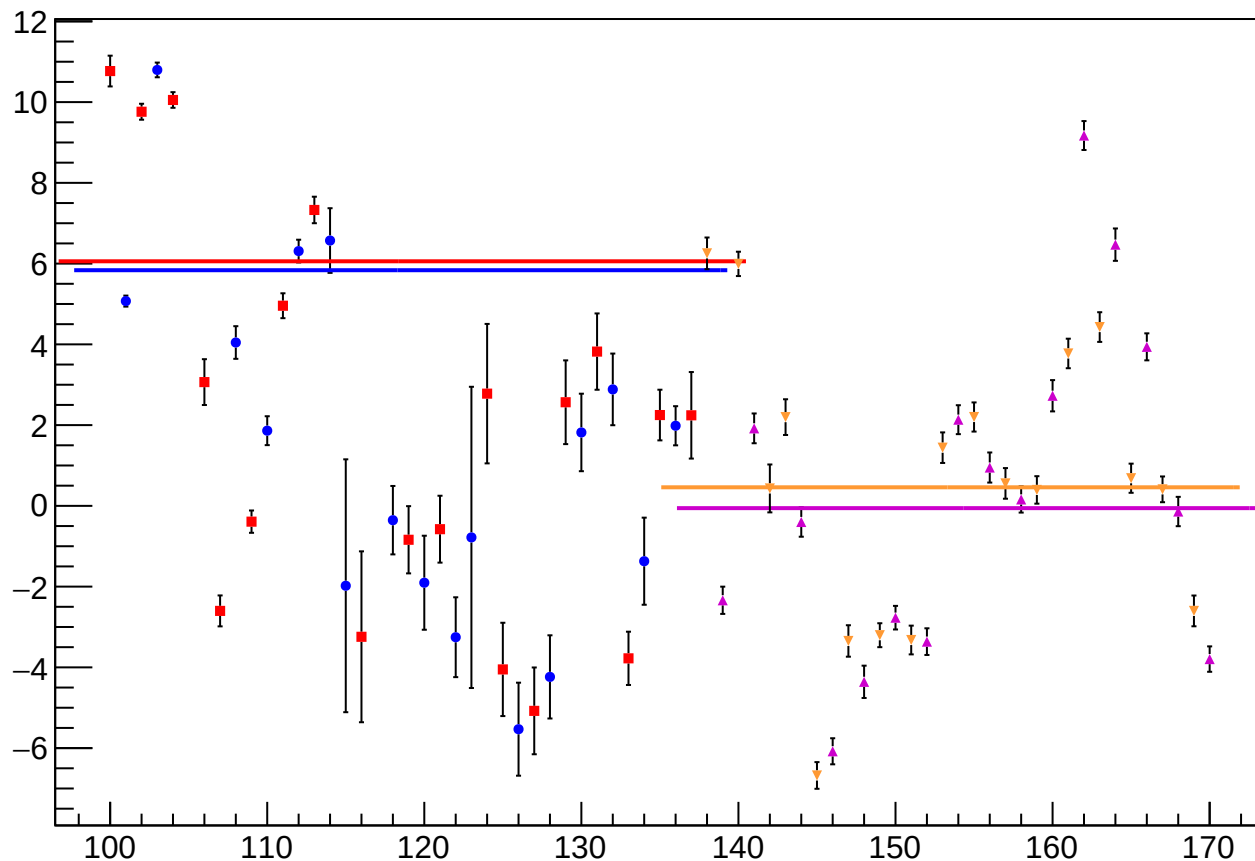
Right: -6.189 ± 0.040 χ^2/NDF : 21952.0/35

In: -2.999 ± 0.042 χ^2/NDF : 15512.6/32

Out: -3.605 ± 0.043 χ^2/NDF : 21001.8/35

All: -3.292 ± 0.030 χ^2/NDF : 36615.2/68

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.836 $\pm$ 0.090 χ^2 /NDF: 1440.9/16

Left Out: 0.460 $\pm$ 0.088 χ^2 /NDF:1691.5/16

Right Out: 6.057 $\pm$ 0.093 χ^2 /NDF: 2668.9/18

Left In: -0.056 $\pm$ 0.087 χ^2 /NDF:2034.9/15

Left: 0.200 $\pm$ 0.062 χ^2 /NDF: 3743.8/32

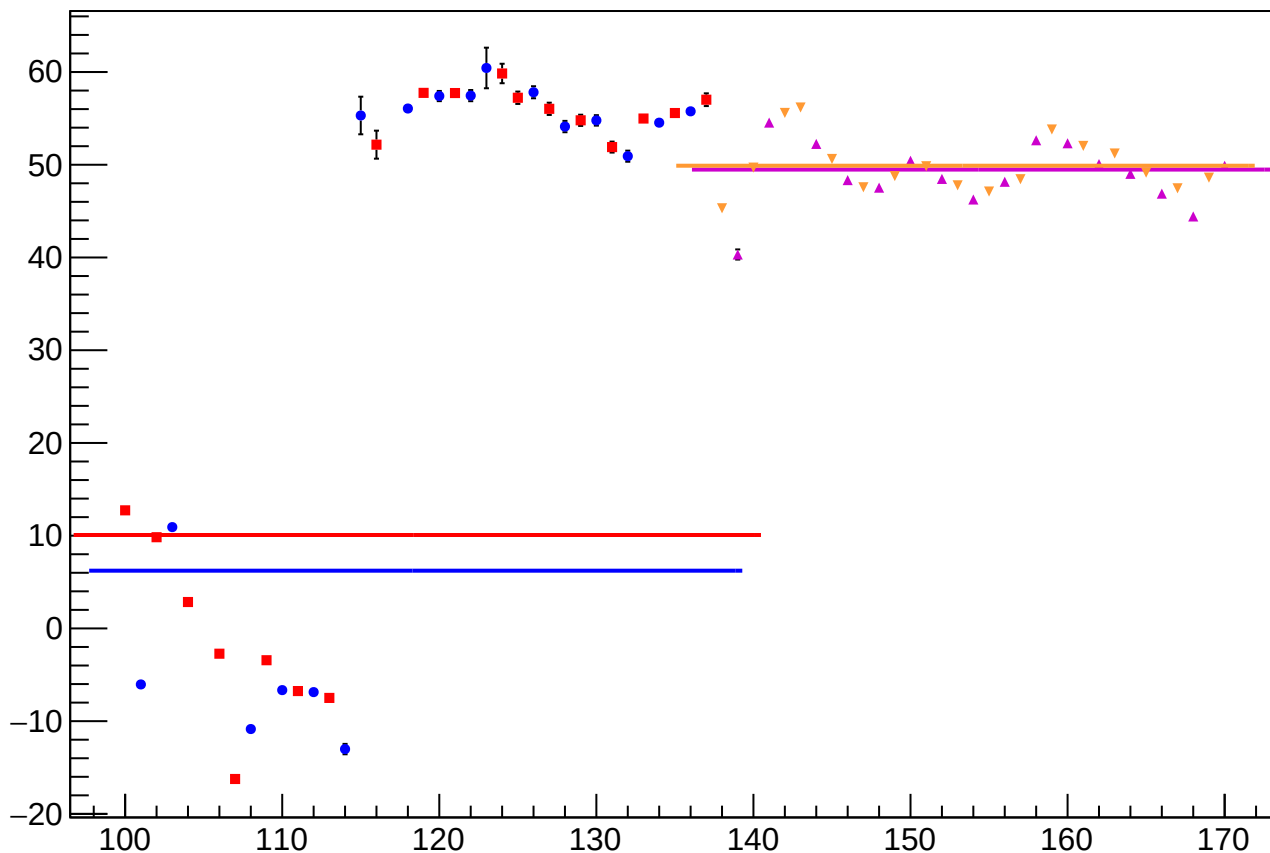
Right: 5.942 $\pm$ 0.065 χ^2 /NDF: 4112.7/35

In: 2.802 $\pm$ 0.062 χ^2 /NDF:5700.1/32

Out: 3.085 $\pm$ 0.064 χ^2 /NDF:6270.6/35

All: 2.940 $\pm$ 0.045 χ^2 /NDF: 11980.7/68

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.226 ± 0.065 χ^2/NDF : 120955.1/16

Left Out: 49.896 ± 0.074 χ^2/NDF : 1252.9/16

Right Out: 10.075 ± 0.070 χ^2/NDF : 122049.3/18

Left In: 49.479 ± 0.075 χ^2/NDF : 1400.3/15

Left: 49.690 ± 0.053 χ^2/NDF : 2669.0/32

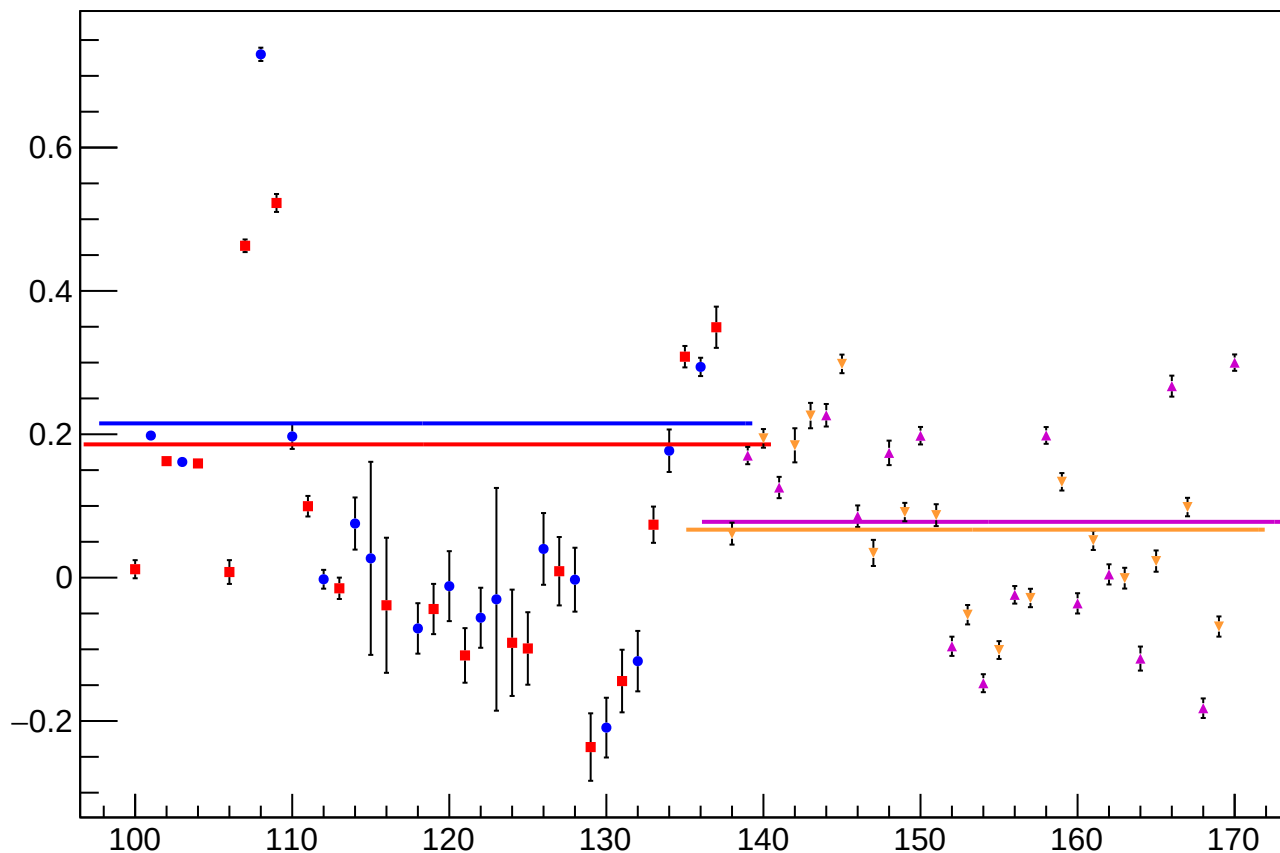
Right: 8.011 ± 0.047 χ^2/NDF : 244638.0/35

In: 24.751 ± 0.049 χ^2/NDF : 313000.2/32

Out: 28.831 ± 0.051 χ^2/NDF : 276882.7/35

All: 26.722 ± 0.035 χ^2/NDF : 593229.0/68

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.215 ± 0.003 χ^2/NDF : 3925.9/16

Left Out: 0.067 ± 0.003 χ^2/NDF : 1002.6/16

Right Out: 0.186 ± 0.003 χ^2/NDF : 2718.1/18

Left In: 0.078 ± 0.003 χ^2/NDF : 2080.7/15

Left: 0.072 ± 0.002 χ^2/NDF : 3088.4/32

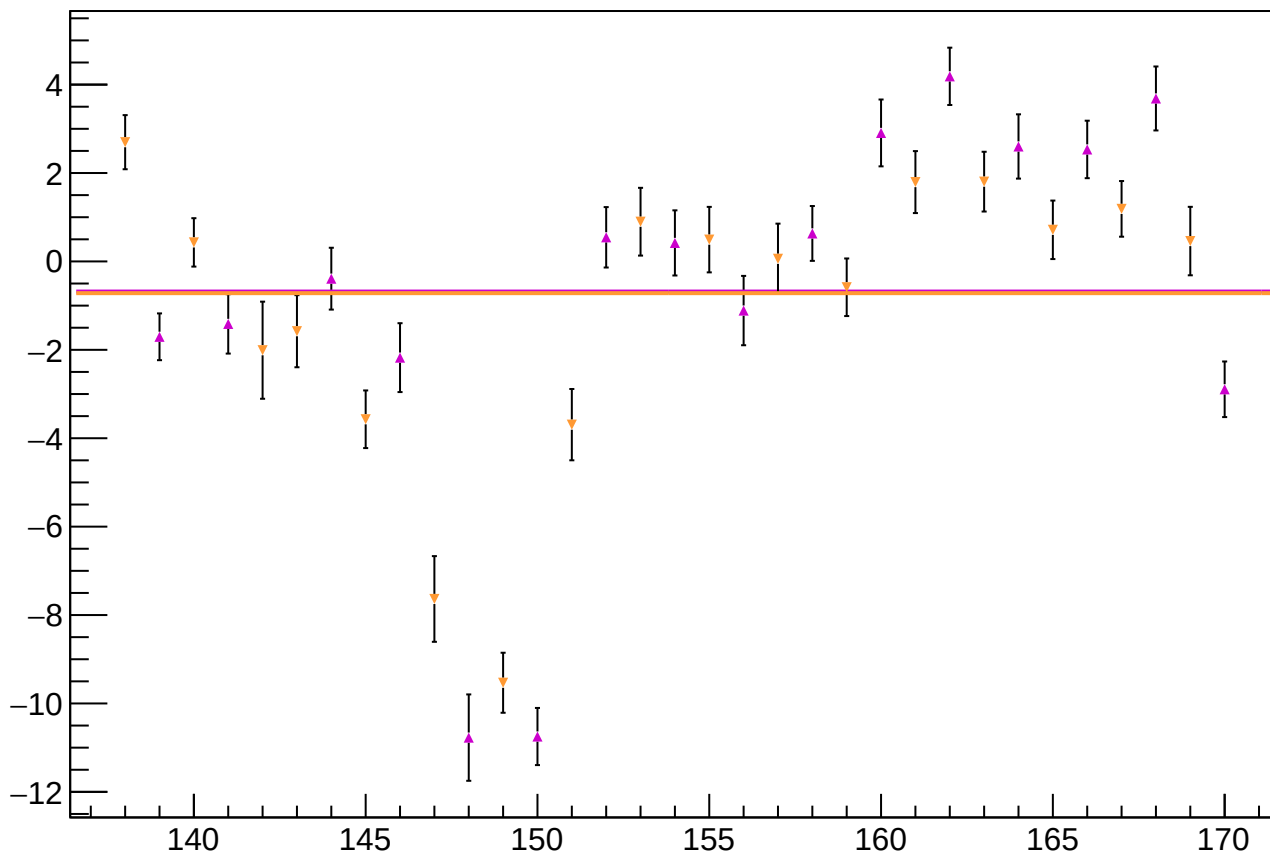
Right: 0.200 ± 0.002 χ^2/NDF : 6701.6/35

In: 0.160 ± 0.002 χ^2/NDF : 6992.0/32

Out: 0.141 ± 0.002 χ^2/NDF : 4466.2/35

All: 0.150 ± 0.002 χ^2/NDF : 11500.1/68

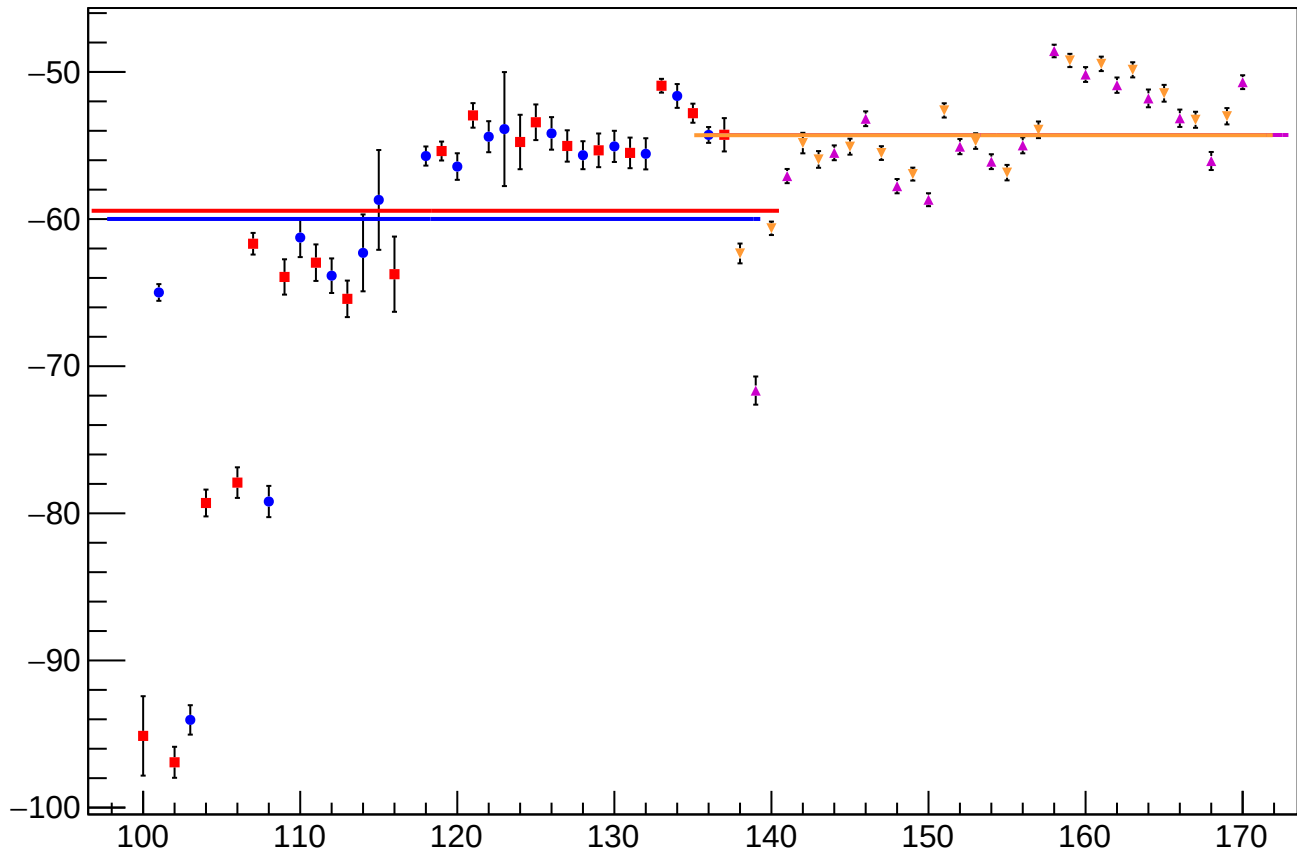
reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -0.718+/-0.172 χ^2/NDF :341.3/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -0.682+/-0.172 χ^2/NDF :540.7/15

Left: -0.700+/-0.122 χ^2/NDF : 882.0/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -0.682+/-0.172 χ^2/NDF :540.7/15
 Out: -0.718+/-0.172 χ^2/NDF :341.3/16
 All: -0.700+/-0.122 χ^2/NDF : 882.0/32

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -59.992 ± 0.225 χ^2/NDF : 1972.9/16

Left Out: -54.299 ± 0.127 χ^2/NDF : 757.5/16

Right Out: -59.435 ± 0.212 χ^2/NDF : 2917.9/18

Left In: -54.285 ± 0.130 χ^2/NDF : 914.2/15

Left: -54.292 ± 0.091 χ^2/NDF : 1671.7/32

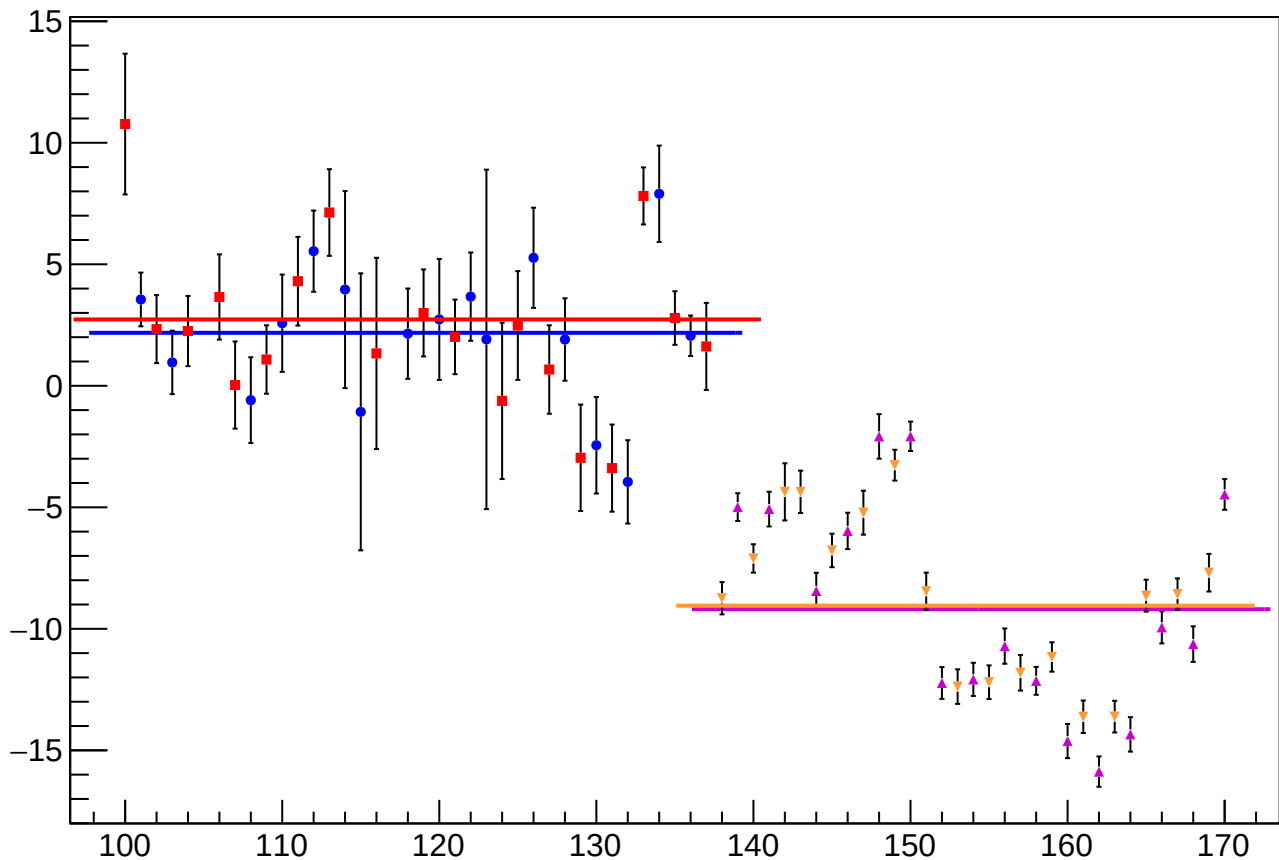
Right: -59.697 ± 0.154 χ^2/NDF : 4894.0/35

In: -55.707 ± 0.112 χ^2/NDF : 3370.4/32

Out: -55.651 ± 0.109 χ^2/NDF : 4108.1/35

All: -55.678 ± 0.078 χ^2/NDF : 7478.6/68

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 2.181 ± 0.406 $\chi^2/\text{NDF}: 39.0/16$

Left Out: -9.046 ± 0.171 $\chi^2/\text{NDF}: 337.3/16$

Right Out: 2.731 ± 0.388 $\chi^2/\text{NDF}: 58.9/18$

Left In: -9.194 ± 0.169 $\chi^2/\text{NDF}: 663.8/15$

Left: -9.121 ± 0.120 $\chi^2/\text{NDF}: 1001.5/32$

Right: 2.468 ± 0.280 $\chi^2/\text{NDF}: 98.9/35$

In: -7.518 ± 0.156 $\chi^2/\text{NDF}: 1373.3/32$

Out: -7.140 ± 0.156 $\chi^2/\text{NDF}: 1168.5/35$

All: -7.329 ± 0.110 $\chi^2/\text{NDF}: 2544.7/68$

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -32.682 ± 0.256 $\chi^2/\text{NDF}: 4646.9/16$

Left Out: -37.753 ± 0.145 $\chi^2/\text{NDF}: 783.2/16$

Right Out: -32.523 ± 0.244 $\chi^2/\text{NDF}: 6045.3/18$

Left In: -37.319 ± 0.147 $\chi^2/\text{NDF}: 951.2/15$

Left: -37.539 ± 0.103 $\chi^2/\text{NDF}: 1738.8/32$

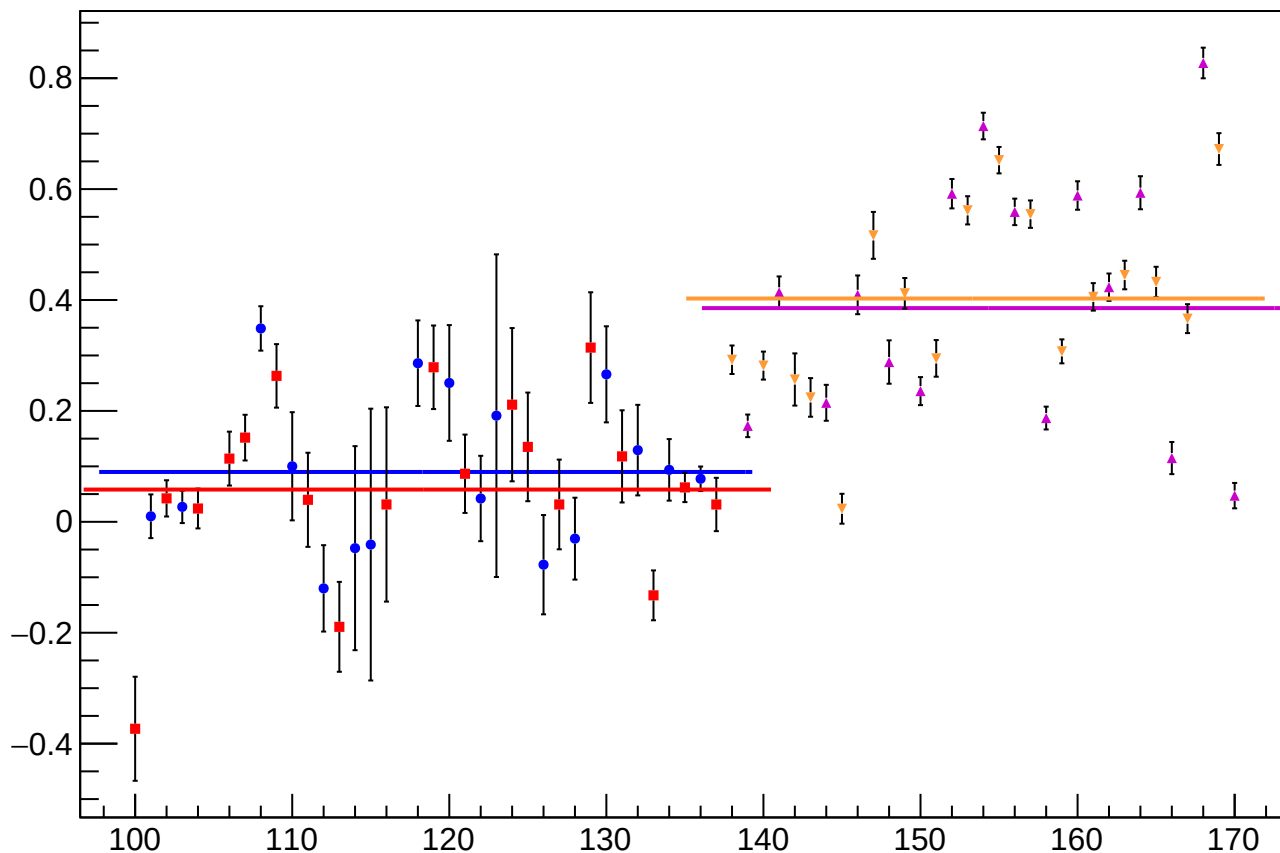
Right: -32.599 ± 0.177 $\chi^2/\text{NDF}: 10692.4/35$

In: -36.169 ± 0.127 $\chi^2/\text{NDF}: 5845.2/32$

Out: -36.387 ± 0.125 $\chi^2/\text{NDF}: 7168.0/35$

All: -36.281 ± 0.089 $\chi^2/\text{NDF}: 13014.7/68$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.090 $\pm$ 0.013 χ^2/NDF : 78.8/16

Left Out: 0.403 $\pm$ 0.007 χ^2/NDF : 593.4/16

Right Out: 0.058 $\pm$ 0.012 χ^2/NDF : 87.1/18

Left In: 0.385 $\pm$ 0.007 χ^2/NDF : 1247.6/15

Left: 0.394 $\pm$ 0.005 χ^2/NDF : 1844.5/32

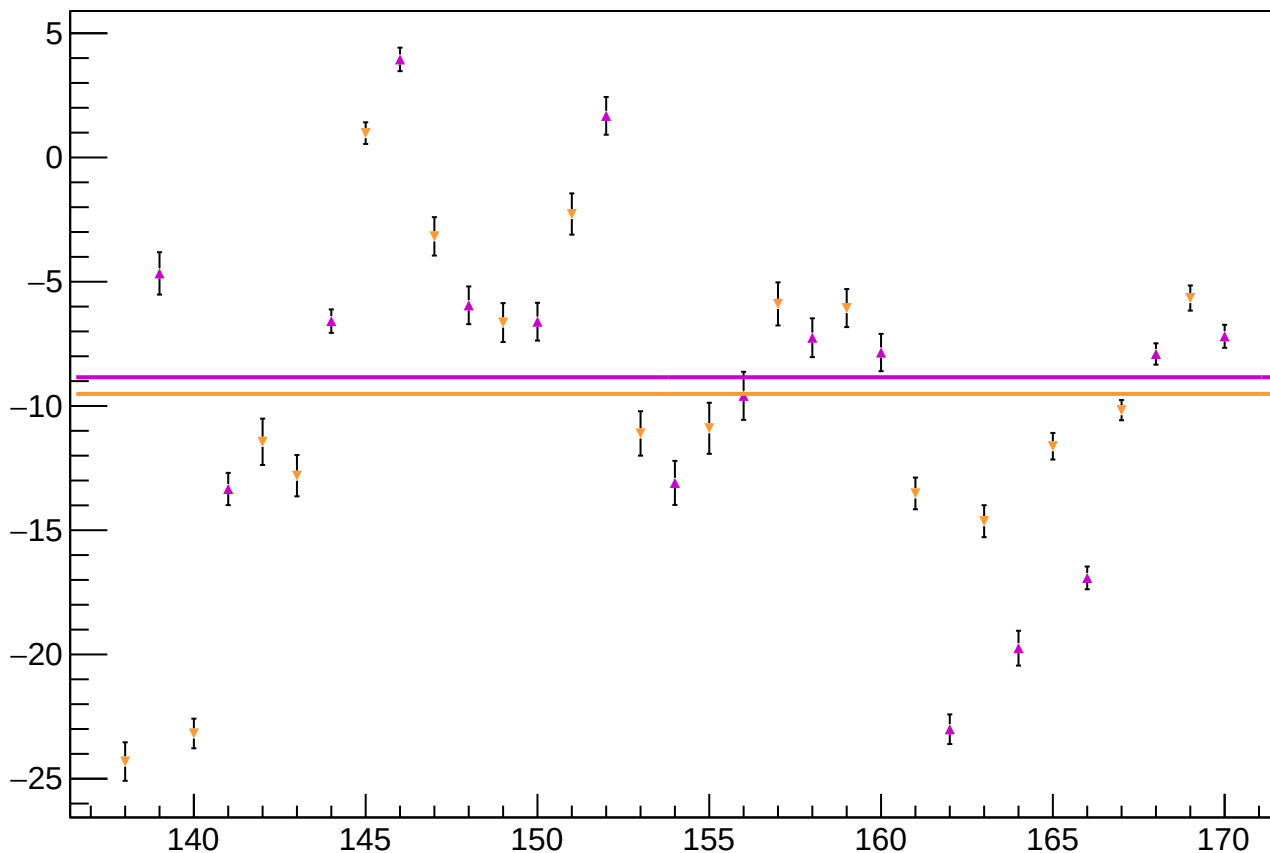
Right: 0.073 $\pm$ 0.009 χ^2/NDF : 169.1/35

In: 0.324 $\pm$ 0.006 χ^2/NDF : 1752.7/32

Out: 0.324 $\pm$ 0.006 χ^2/NDF : 1298.5/35

All: 0.324 $\pm$ 0.004 χ^2/NDF : 3051.2/68

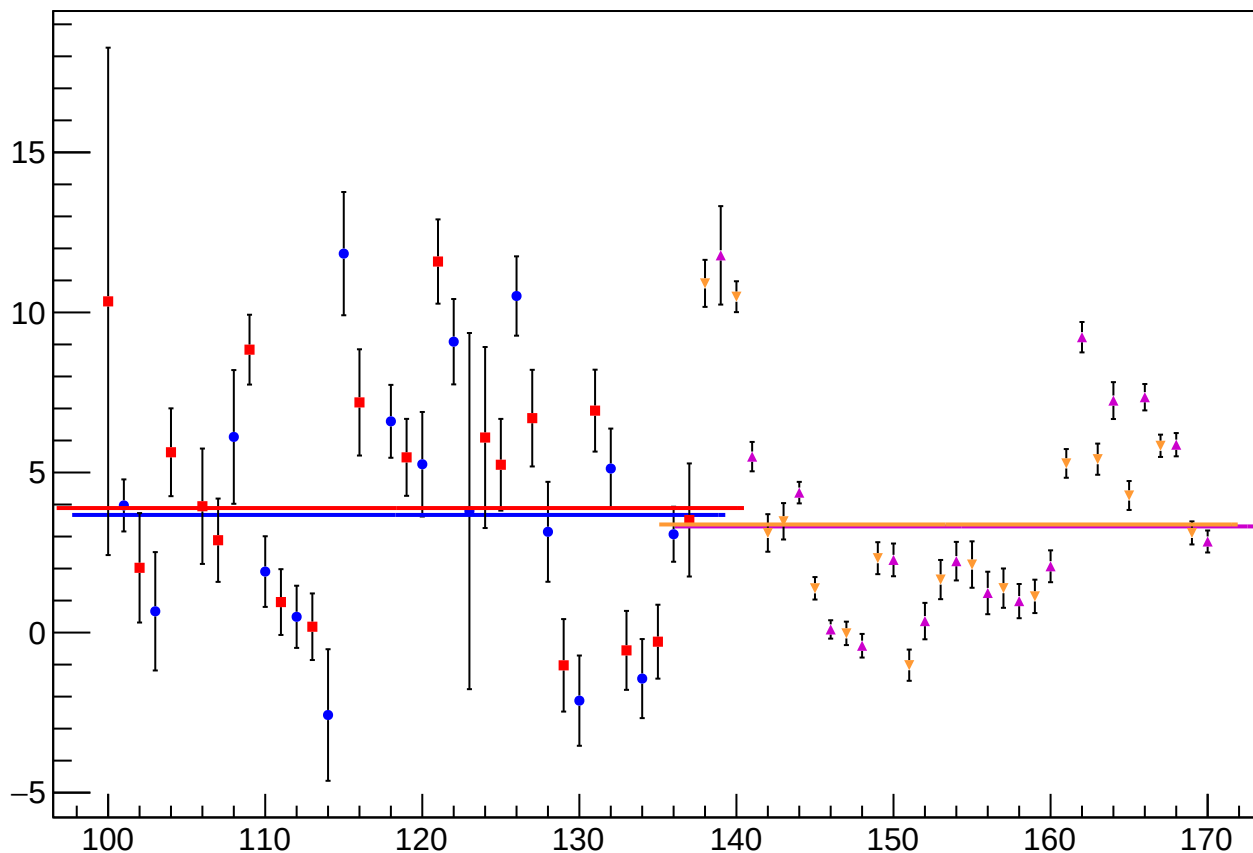
reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: -9.514 $\pm$ 0.157 χ^2 /NDF:1867.0/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: -8.843 $\pm$ 0.152 χ^2 /NDF:2206.0/15

Left: -9.168 $\pm$ 0.109 χ^2 /NDF: 4082.5/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: -8.843 $\pm$ 0.152 χ^2 /NDF:2206.0/15
 Out: -9.514 $\pm$ 0.157 χ^2 /NDF:1867.0/16
 All: -9.168 $\pm$ 0.109 χ^2 /NDF: 4082.5/32

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.675 ± 0.310 χ^2/NDF : 135.2/16

Left Out: 3.377 ± 0.114 χ^2/NDF : 657.0/16

Right Out: 3.890 ± 0.316 χ^2/NDF : 133.7/18

Left In: 3.316 ± 0.110 χ^2/NDF : 708.7/15

Left: 3.345 ± 0.079 χ^2/NDF : 1365.9/32

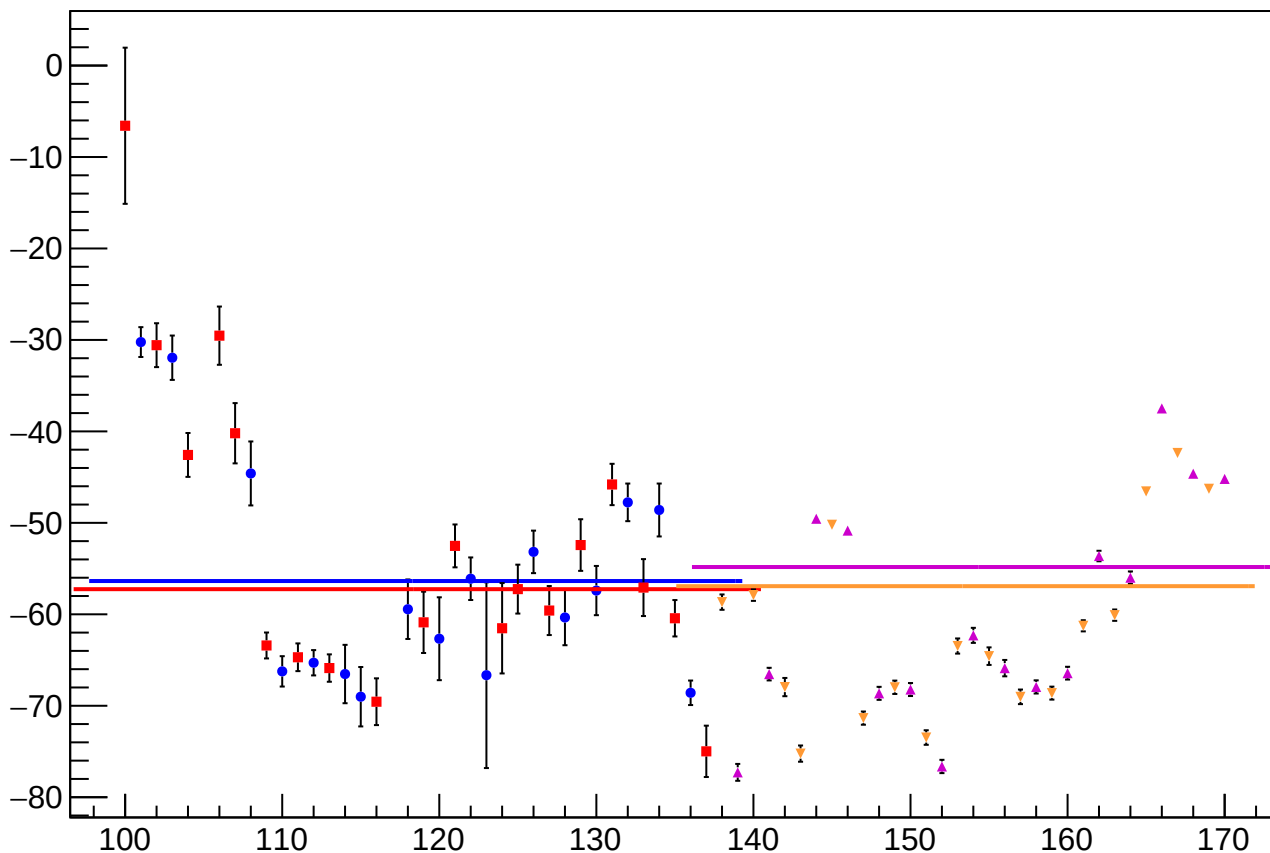
Right: 3.780 ± 0.221 χ^2/NDF : 269.1/35

In: 3.356 ± 0.104 χ^2/NDF : 845.1/32

Out: 3.436 ± 0.107 χ^2/NDF : 793.1/35

All: 3.394 ± 0.075 χ^2/NDF : 1638.5/68

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -56.362 ± 0.543 χ^2/NDF : 587.2/16

Left Out: -56.923 ± 0.157 χ^2/NDF : 4577.2/16

Right Out: -57.252 ± 0.536 χ^2/NDF : 476.0/18

Left In: -54.829 ± 0.150 χ^2/NDF : 5913.0/15

Left: -55.833 ± 0.108 χ^2/NDF : 10583.3/32

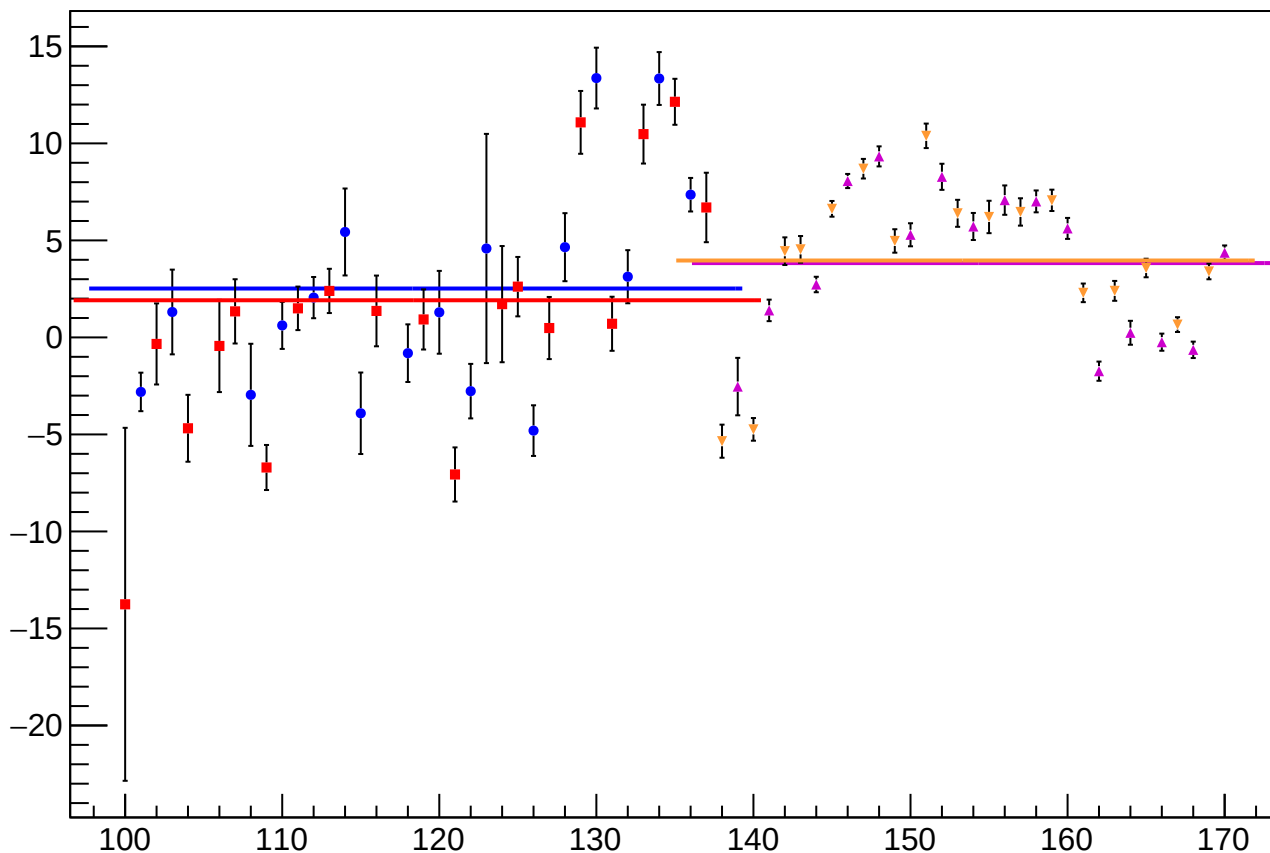
Right: -56.813 ± 0.382 χ^2/NDF : 1064.6/35

In: -54.938 ± 0.145 χ^2/NDF : 6507.6/32

Out: -56.949 ± 0.150 χ^2/NDF : 5053.5/35

All: -55.906 ± 0.104 χ^2/NDF : 11653.9/68

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.520 ± 0.347 χ^2/NDF : 242.3/16

Left Out: 3.964 ± 0.131 χ^2/NDF : 742.4/16

Right Out: 1.914 ± 0.355 χ^2/NDF : 264.5/18

Left In: 3.831 ± 0.128 χ^2/NDF : 771.4/15

Left: 3.895 ± 0.092 χ^2/NDF : 1514.4/32

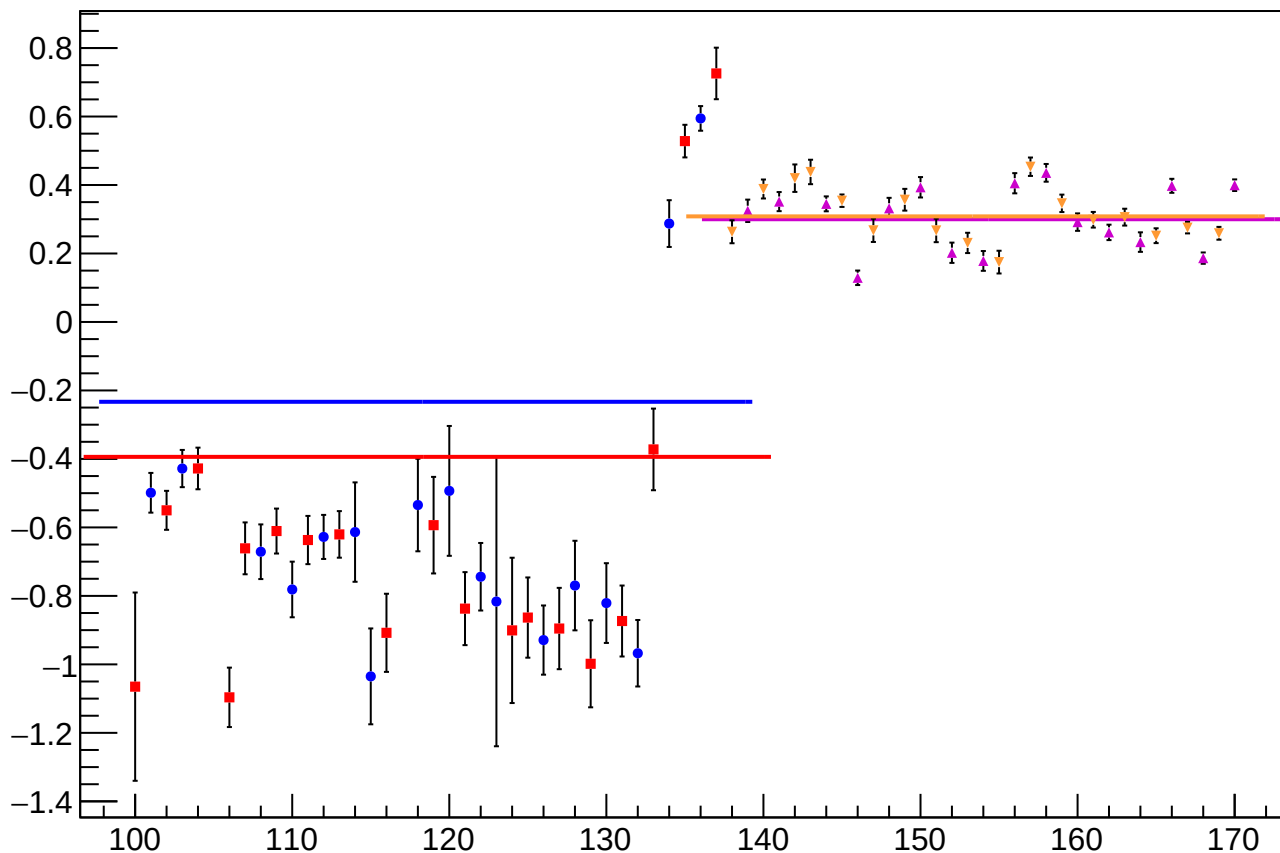
Right: 2.224 ± 0.248 χ^2/NDF : 508.4/35

In: 3.674 ± 0.120 χ^2/NDF : 1026.3/32

Out: 3.717 ± 0.123 χ^2/NDF : 1036.3/35

All: 3.695 ± 0.086 χ^2/NDF : 2062.7/68

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.233 ± 0.019 χ^2/NDF : 956.8/16

Left Out: 0.308 ± 0.006 χ^2/NDF : 114.8/16

Right Out: -0.394 ± 0.019 χ^2/NDF : 845.2/18

Left In: 0.300 ± 0.006 χ^2/NDF : 266.2/15

Left: 0.304 ± 0.004 χ^2/NDF : 381.9/32

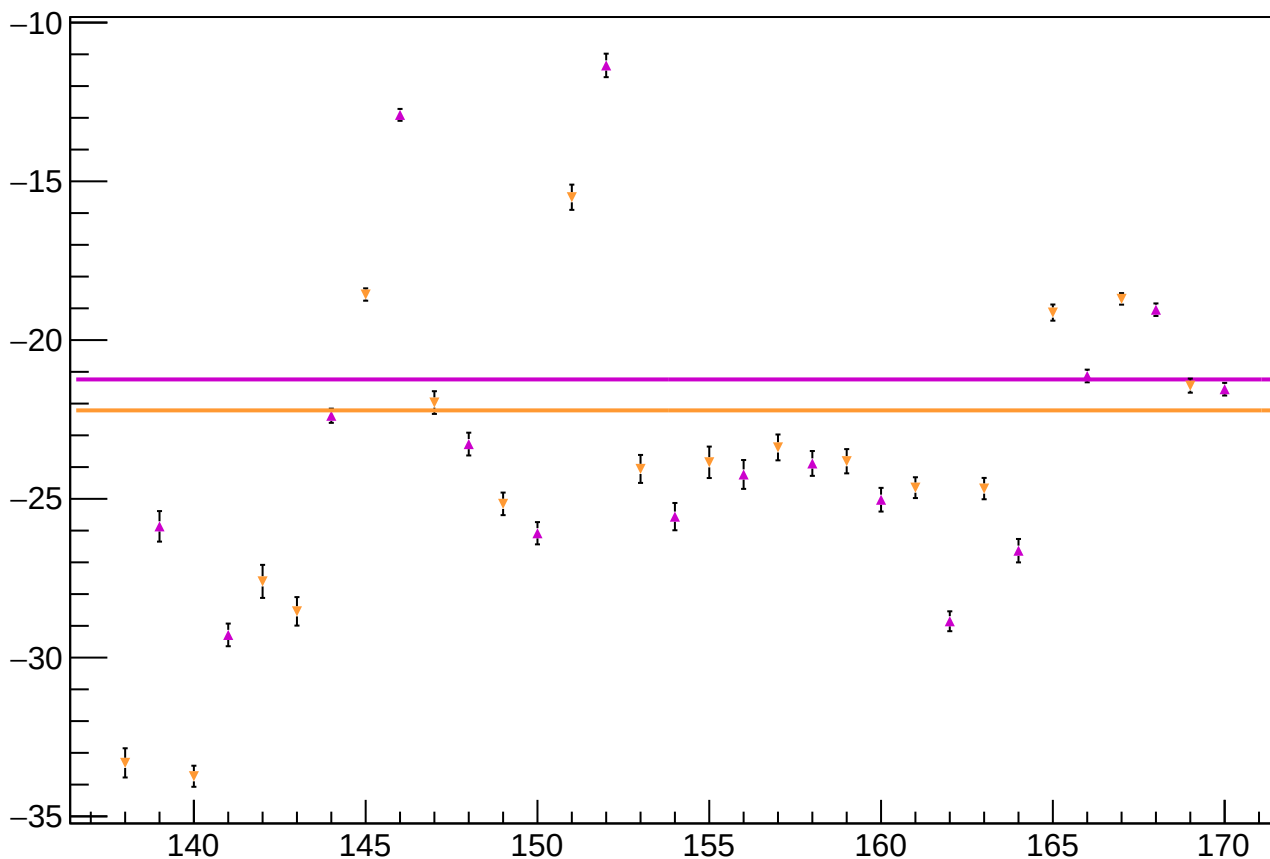
Right: -0.313 ± 0.013 χ^2/NDF : 1838.0/35

In: 0.252 ± 0.006 χ^2/NDF : 1946.2/32

Out: 0.242 ± 0.006 χ^2/NDF : 2197.9/35

All: 0.247 ± 0.004 χ^2/NDF : 4145.7/68

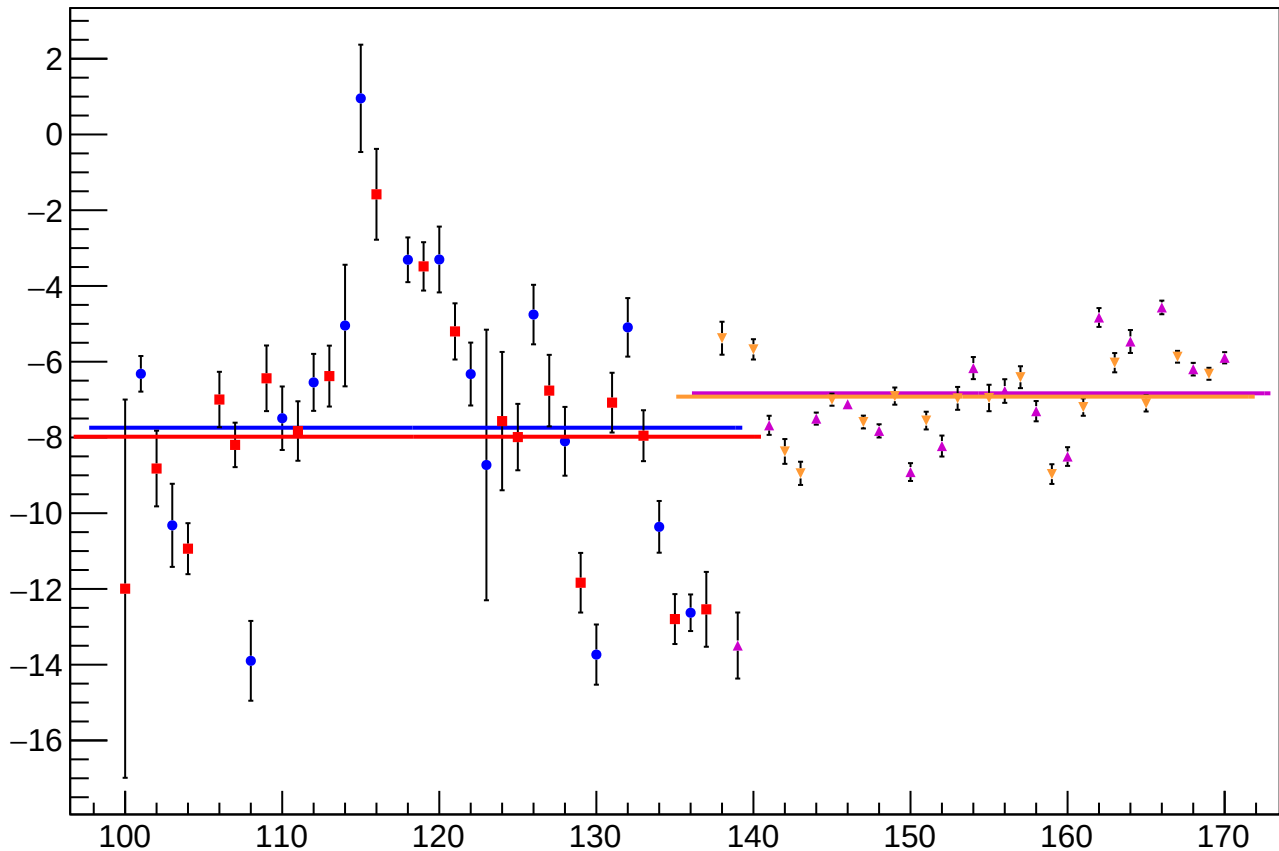
reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left Out: -22.214 $\pm$ 0.075 χ^2/NDF :3492.5/16
 Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left In: -21.239 $\pm$ 0.071 χ^2/NDF :4766.9/15

Left: -21.696 $\pm$ 0.051 χ^2/NDF : 8349.0/32
 Right: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 In: -21.239 $\pm$ 0.071 χ^2/NDF :4766.9/15
 Out: -22.214 $\pm$ 0.075 χ^2/NDF :3492.5/16
 All: -21.696 $\pm$ 0.051 χ^2/NDF : 8349.0/32

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.743 ± 0.187 χ^2/NDF : 377.5/16

Left Out: -6.923 ± 0.055 χ^2/NDF : 260.3/16

Right Out: -7.981 ± 0.186 χ^2/NDF : 223.5/18

Left In: -6.835 ± 0.051 χ^2/NDF : 581.3/15

Left: -6.876 ± 0.037 χ^2/NDF : 843.0/32

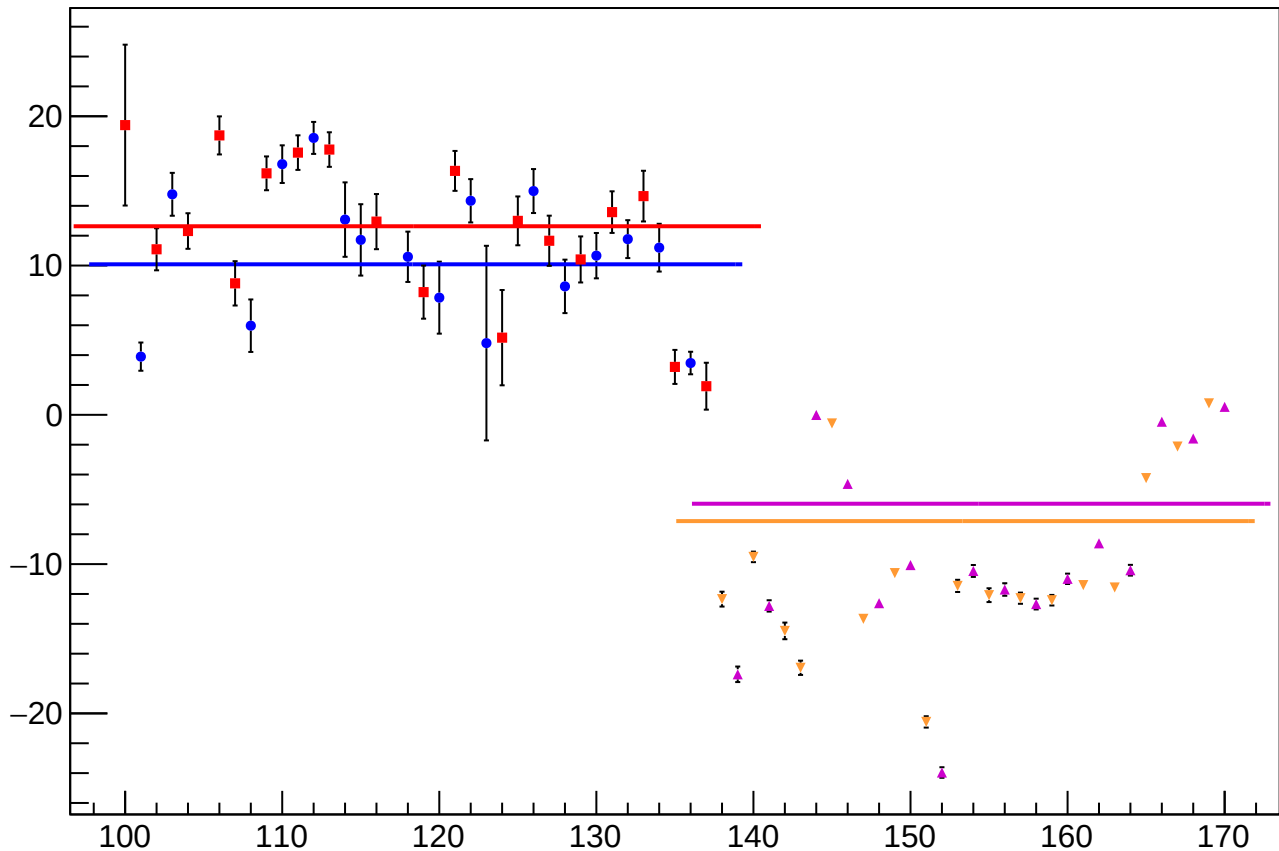
Right: -7.863 ± 0.132 χ^2/NDF : 601.9/35

In: -6.898 ± 0.049 χ^2/NDF : 980.8/32

Out: -7.007 ± 0.052 χ^2/NDF : 513.7/35

All: -6.949 ± 0.036 χ^2/NDF : 1496.8/68

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 10.083 ± 0.338 $\chi^2/\text{NDF}: 252.7/16$

Left Out: -7.119 ± 0.075 $\chi^2/\text{NDF}: 6635.5/16$

Right Out: 12.632 ± 0.333 $\chi^2/\text{NDF}: 218.6/18$

Left In: -5.955 ± 0.070 $\chi^2/\text{NDF}: 7974.4/15$

Left: -6.496 ± 0.051 $\chi^2/\text{NDF}: 14739.2/32$

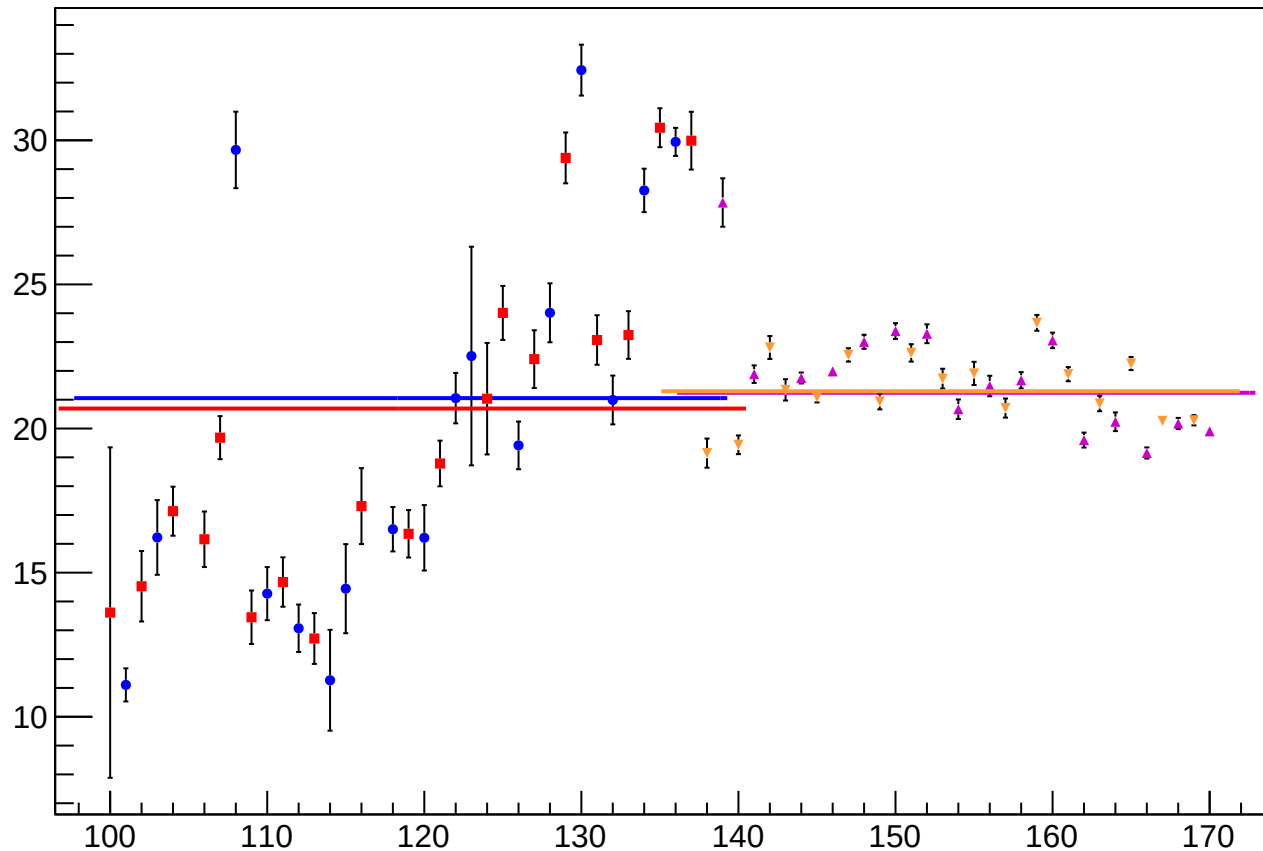
Right: 11.377 ± 0.237 $\chi^2/\text{NDF}: 500.1/35$

In: -5.300 ± 0.068 $\chi^2/\text{NDF}: 10387.7/32$

Out: -6.167 ± 0.073 $\chi^2/\text{NDF}: 10209.1/35$

All: -5.704 ± 0.050 $\chi^2/\text{NDF}: 20671.9/68$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 21.055 $\pm$ 0.211 χ^2 /NDF: 1211.8/16

Left Out: 21.293 $\pm$ 0.063 χ^2 /NDF:293.2/16

Right Out: 20.694 $\pm$ 0.213 χ^2 /NDF: 724.1/18

Left In: 21.241 $\pm$ 0.059 χ^2 /NDF:569.4/15

Left: 21.265 $\pm$ 0.043 χ^2 /NDF: 863.0/32

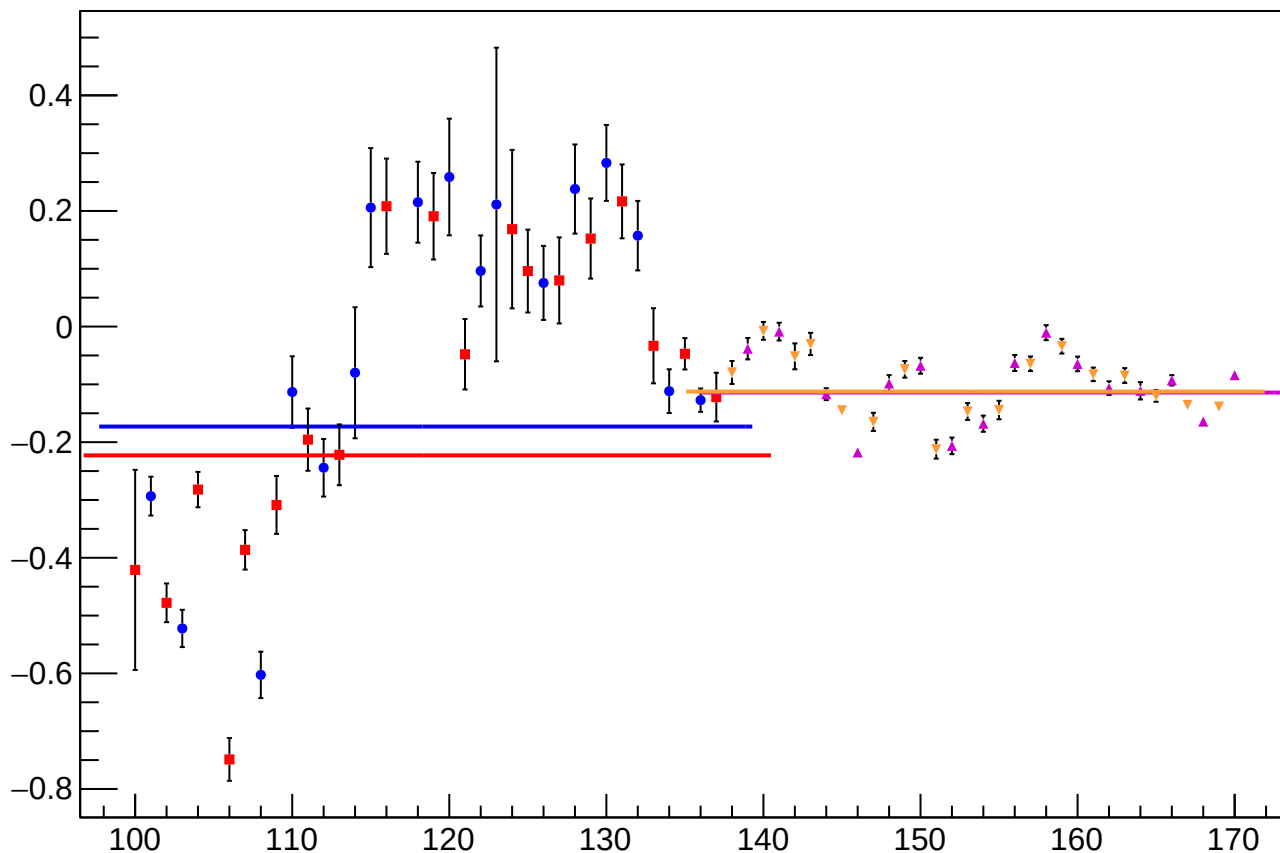
Right: 20.876 $\pm$ 0.150 χ^2 /NDF: 1937.3/35

In: 21.227 $\pm$ 0.057 χ^2 /NDF:1781.9/32

Out: 21.245 $\pm$ 0.060 χ^2 /NDF:1024.6/35

All: 21.236 $\pm$ 0.041 χ^2 /NDF: 2806.5/68

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.173 ± 0.011 χ^2/NDF : 461.8/16

Left Out: -0.112 ± 0.003 χ^2/NDF : 239.4/16

Right Out: -0.223 ± 0.011 χ^2/NDF : 535.1/18

Left In: -0.114 ± 0.003 χ^2/NDF : 442.7/15

Left: -0.113 ± 0.002 χ^2/NDF : 682.3/32

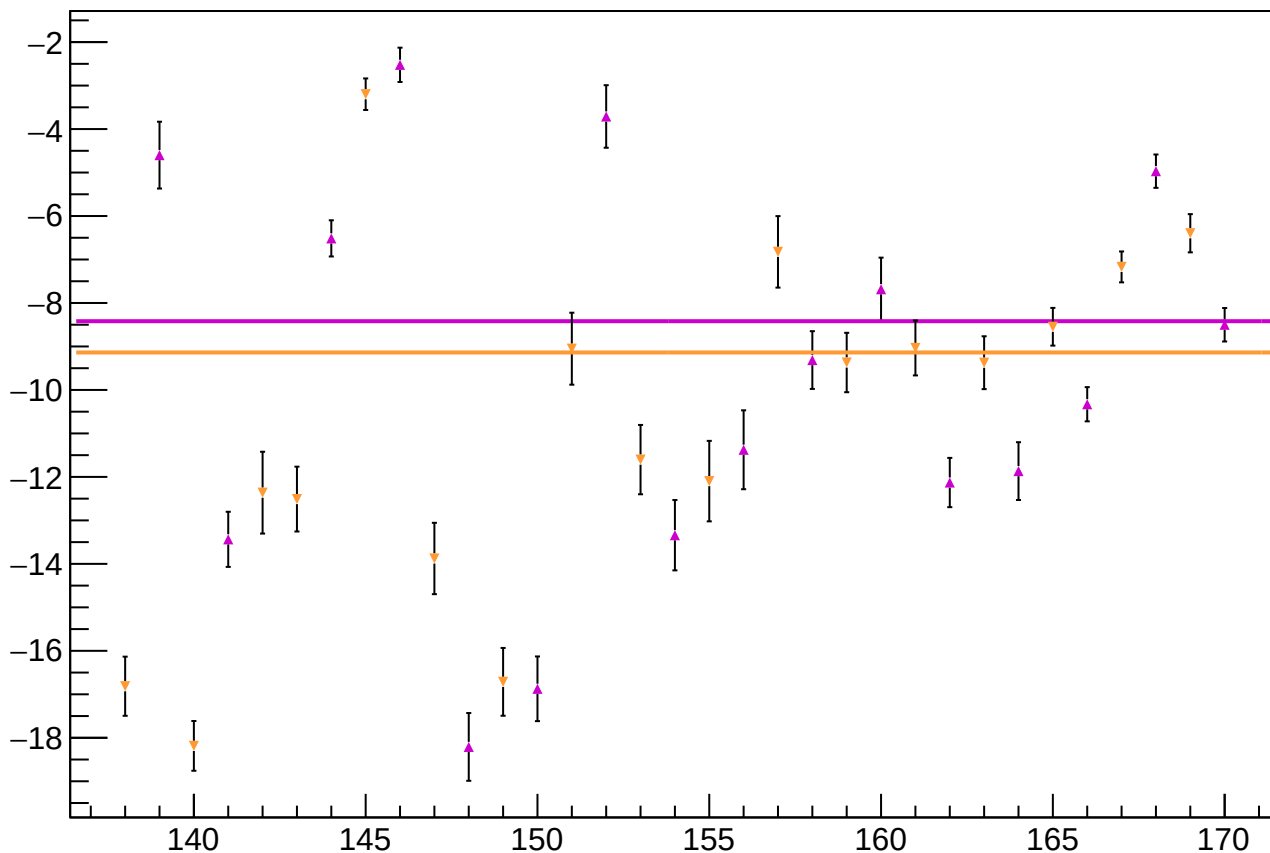
Right: -0.198 ± 0.008 χ^2/NDF : 1007.1/35

In: -0.118 ± 0.003 χ^2/NDF : 930.5/32

Out: -0.120 ± 0.003 χ^2/NDF : 869.2/35

All: -0.119 ± 0.002 χ^2/NDF : 1800.0/68

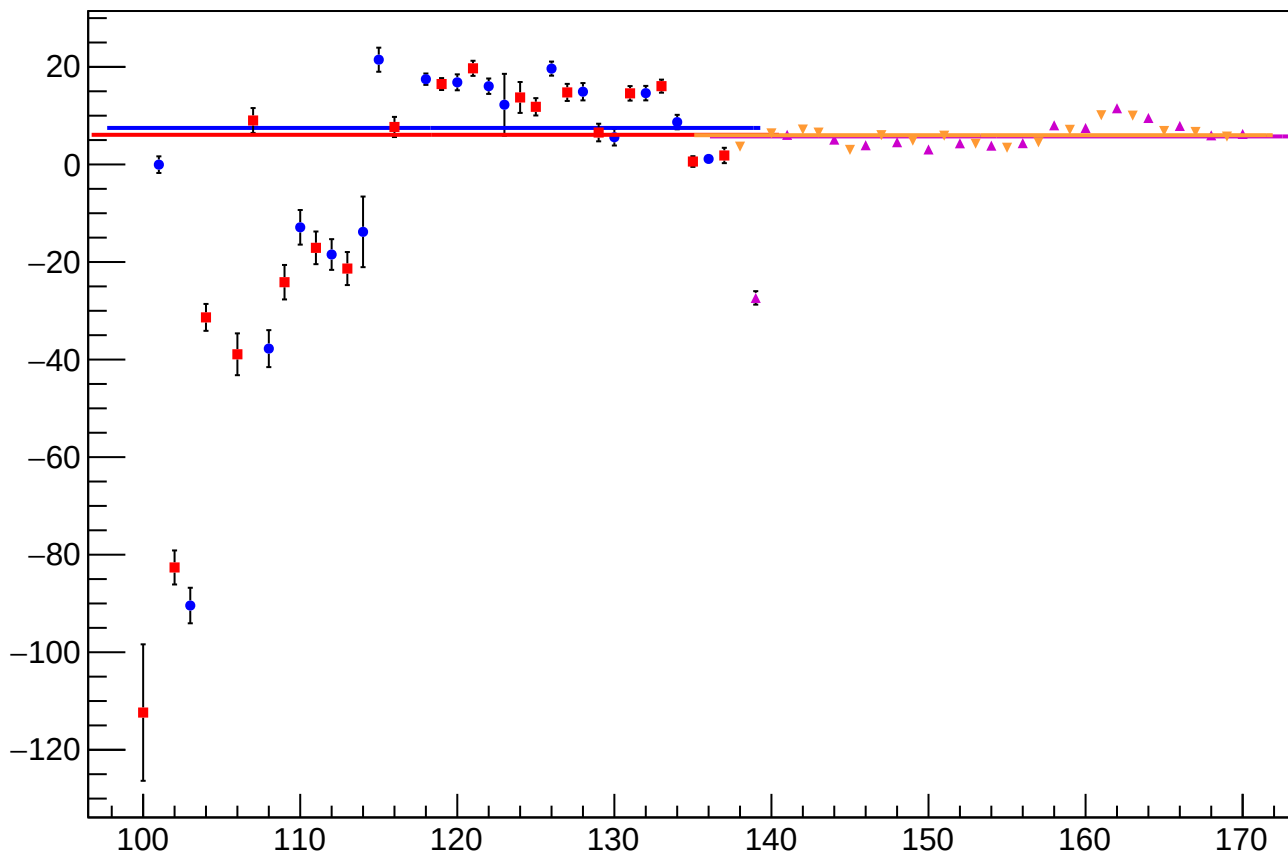
reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -9.138+/-0.141 χ^2/NDF : 905.1/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -8.419+/-0.136 χ^2/NDF : 886.4/15

Left: -8.766+/-0.098 χ^2/NDF : 1805.1/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -8.419+/-0.136 χ^2/NDF : 886.4/15
 Out: -9.138+/-0.141 χ^2/NDF : 905.1/16
 All: -8.766+/-0.098 χ^2/NDF : 1805.1/32

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.488 ± 0.407 χ^2/NDF : 1340.5/16

Left Out: 5.996 ± 0.104 χ^2/NDF : 343.0/16

Right Out: 6.078 ± 0.434 χ^2/NDF : 1512.1/18

Left In: 5.746 ± 0.100 χ^2/NDF : 983.4/15

Left: 5.866 ± 0.072 χ^2/NDF : 1329.5/32

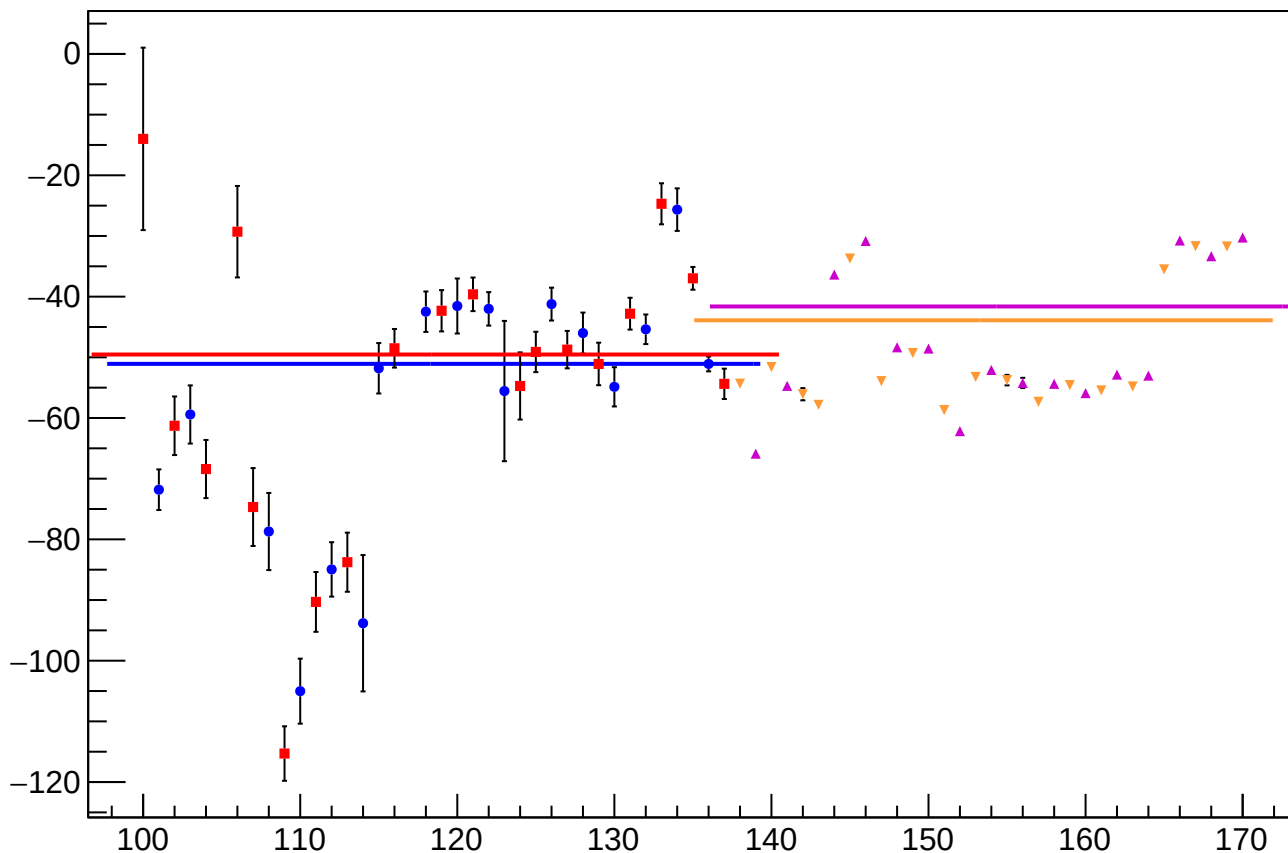
Right: 6.829 ± 0.297 χ^2/NDF : 2858.2/35

In: 5.845 ± 0.097 χ^2/NDF : 2341.3/32

Out: 6.001 ± 0.101 χ^2/NDF : 1855.2/35

All: 5.920 ± 0.070 χ^2/NDF : 4197.7/68

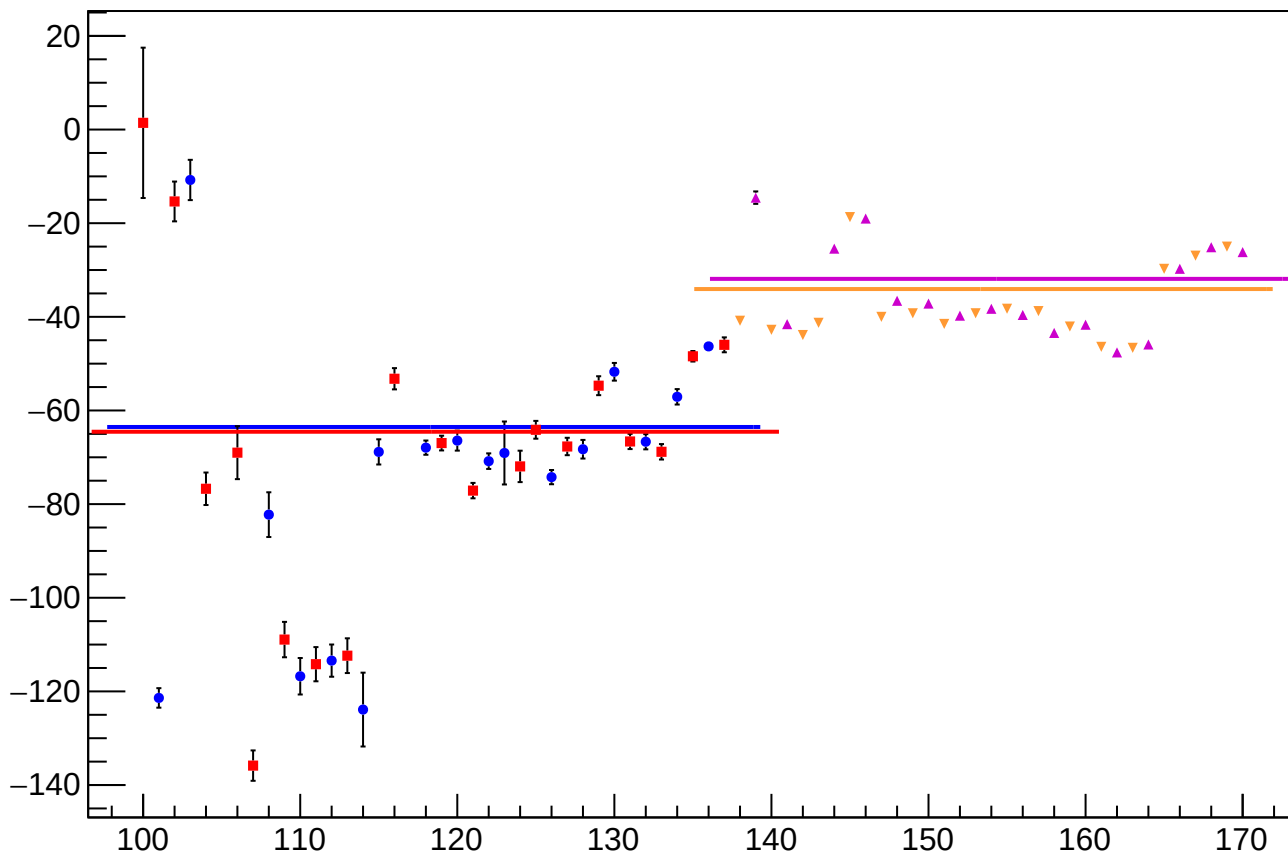
reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -51.077 ± 0.741 χ^2/NDF : 330.2/16
 Left Out: -43.895 ± 0.141 χ^2/NDF : 5956.9/16
 Right Out: -49.537 ± 0.798 χ^2/NDF : 509.6/18
 Left In: -41.619 ± 0.135 χ^2/NDF : 7345.2/15

Left: -42.703 ± 0.098 χ^2/NDF : 13438.1/32
 Right: -50.365 ± 0.543 χ^2/NDF : 841.8/35
 In: -41.921 ± 0.133 χ^2/NDF : 7833.1/32
 Out: -44.066 ± 0.139 χ^2/NDF : 6514.9/35
 All: -42.943 ± 0.096 χ^2/NDF : 14472.6/68

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -63.525 ± 0.449 χ^2/NDF : 2010.9/16

Left Out: -34.065 ± 0.119 χ^2/NDF : 6119.4/16

Right Out: -64.540 ± 0.483 χ^2/NDF : 1603.1/18

Left In: -31.891 ± 0.115 χ^2/NDF : 6343.4/15

Left: -32.942 ± 0.083 χ^2/NDF : 12635.0/32

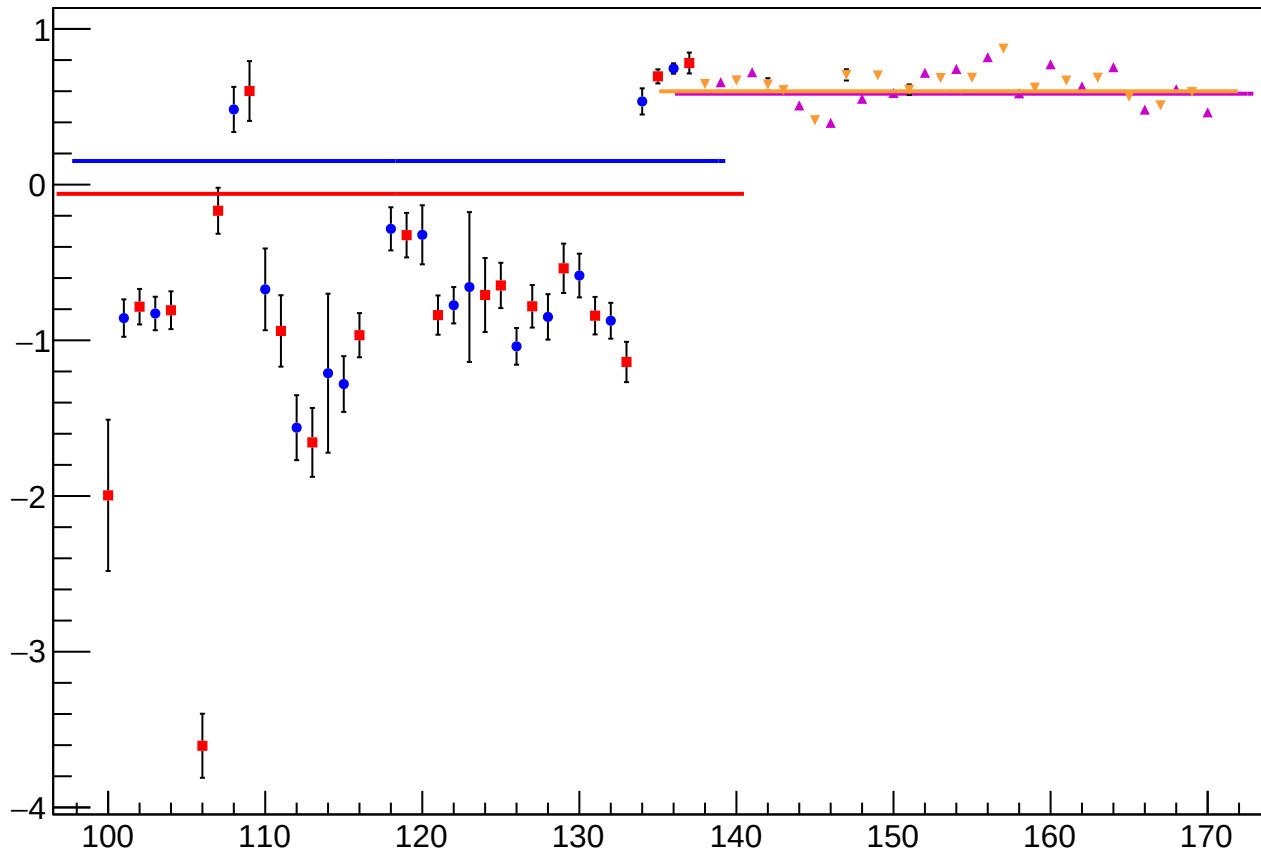
Right: -63.995 ± 0.329 χ^2/NDF : 3616.4/35

In: -33.847 ± 0.112 χ^2/NDF : 13018.2/32

Out: -35.810 ± 0.116 χ^2/NDF : 11476.3/35

All: -34.794 ± 0.080 χ^2/NDF : 24643.8/68

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.152 ± 0.024 χ^2/NDF : 987.4/16

Left Out: 0.599 ± 0.006 χ^2/NDF : 379.4/16

Right Out: -0.059 ± 0.026 χ^2/NDF : 1161.9/18

Left In: 0.584 ± 0.005 χ^2/NDF : 502.5/15

Left: 0.592 ± 0.004 χ^2/NDF : 886.0/32

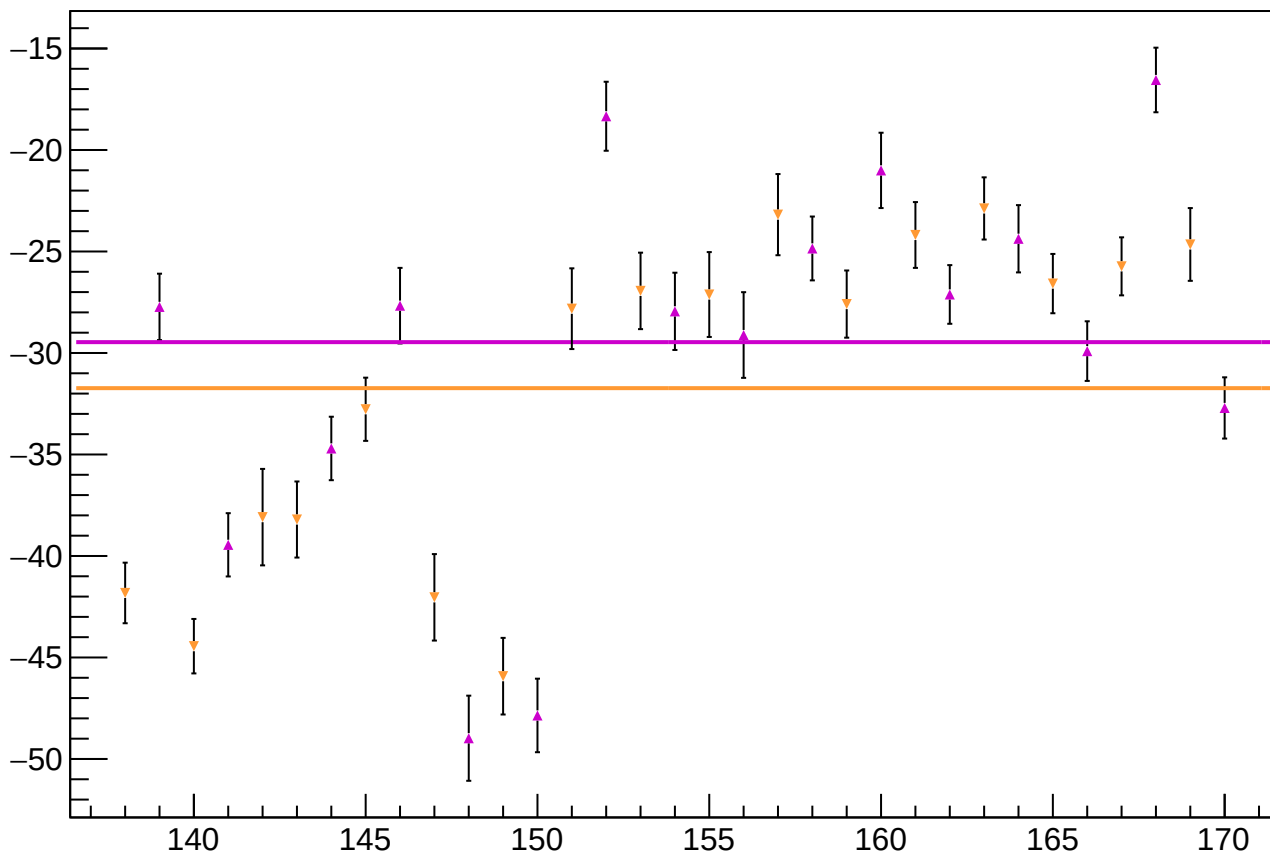
Right: 0.056 ± 0.018 χ^2/NDF : 2184.3/35

In: 0.563 ± 0.005 χ^2/NDF : 1798.1/32

Out: 0.572 ± 0.005 χ^2/NDF : 2142.2/35

All: 0.567 ± 0.004 χ^2/NDF : 3941.4/68

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -31.732+/-0.414 χ^2/NDF :375.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -29.465+/-0.419 χ^2/NDF :399.5/15

Left: -30.612+/-0.294 χ^2/NDF : 789.8/32

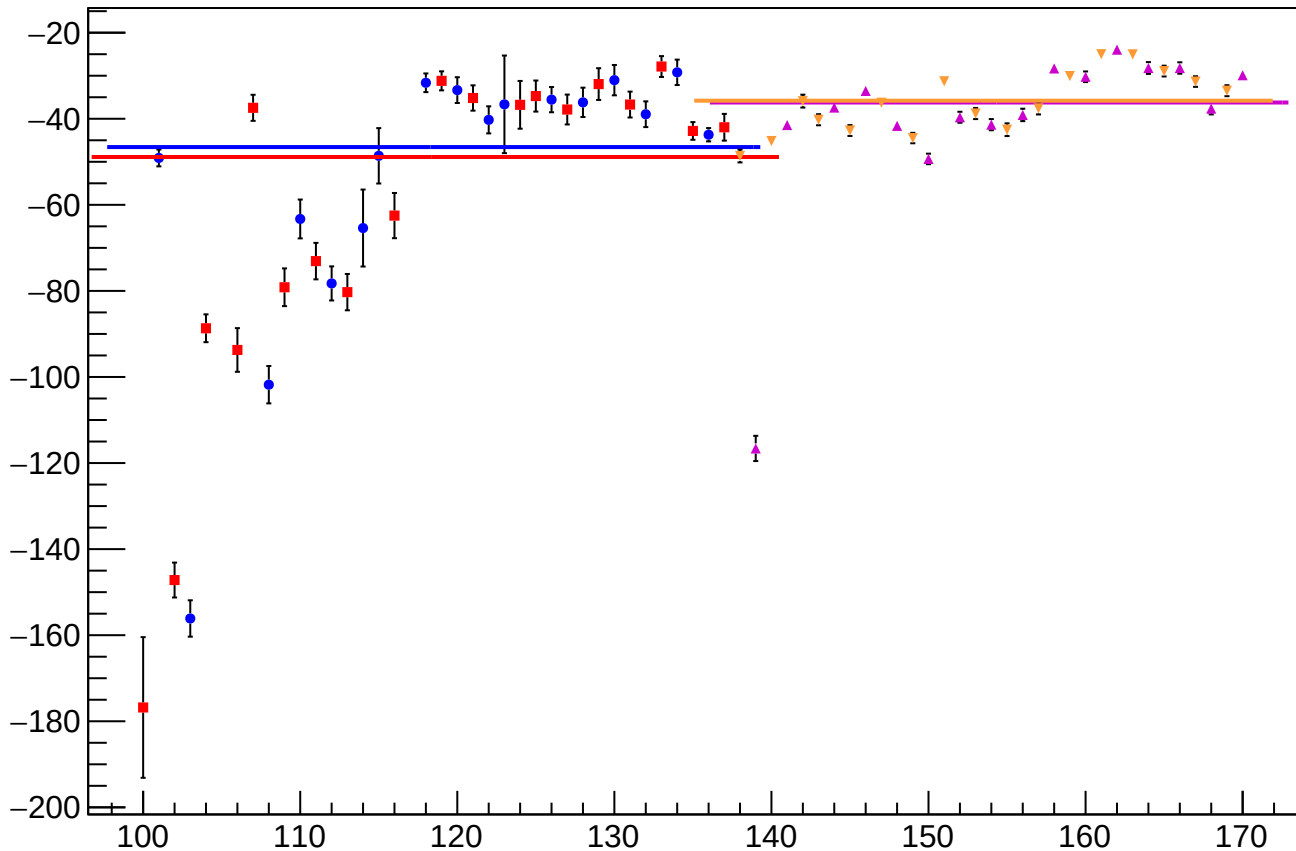
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -29.465+/-0.419 χ^2/NDF :399.5/15

Out: -31.732+/-0.414 χ^2/NDF :375.4/16

All: -30.612+/-0.294 χ^2/NDF : 789.8/32

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -46.579 ± 0.730 $\chi^2/\text{NDF}: 1076.4/16$

Left Out: -35.801 ± 0.300 $\chi^2/\text{NDF}: 531.8/16$

Right Out: -48.888 ± 0.763 $\chi^2/\text{NDF}: 1277.5/18$

Left In: -36.225 ± 0.309 $\chi^2/\text{NDF}: 1244.4/15$

Left: -36.007 ± 0.215 $\chi^2/\text{NDF}: 1777.2/32$

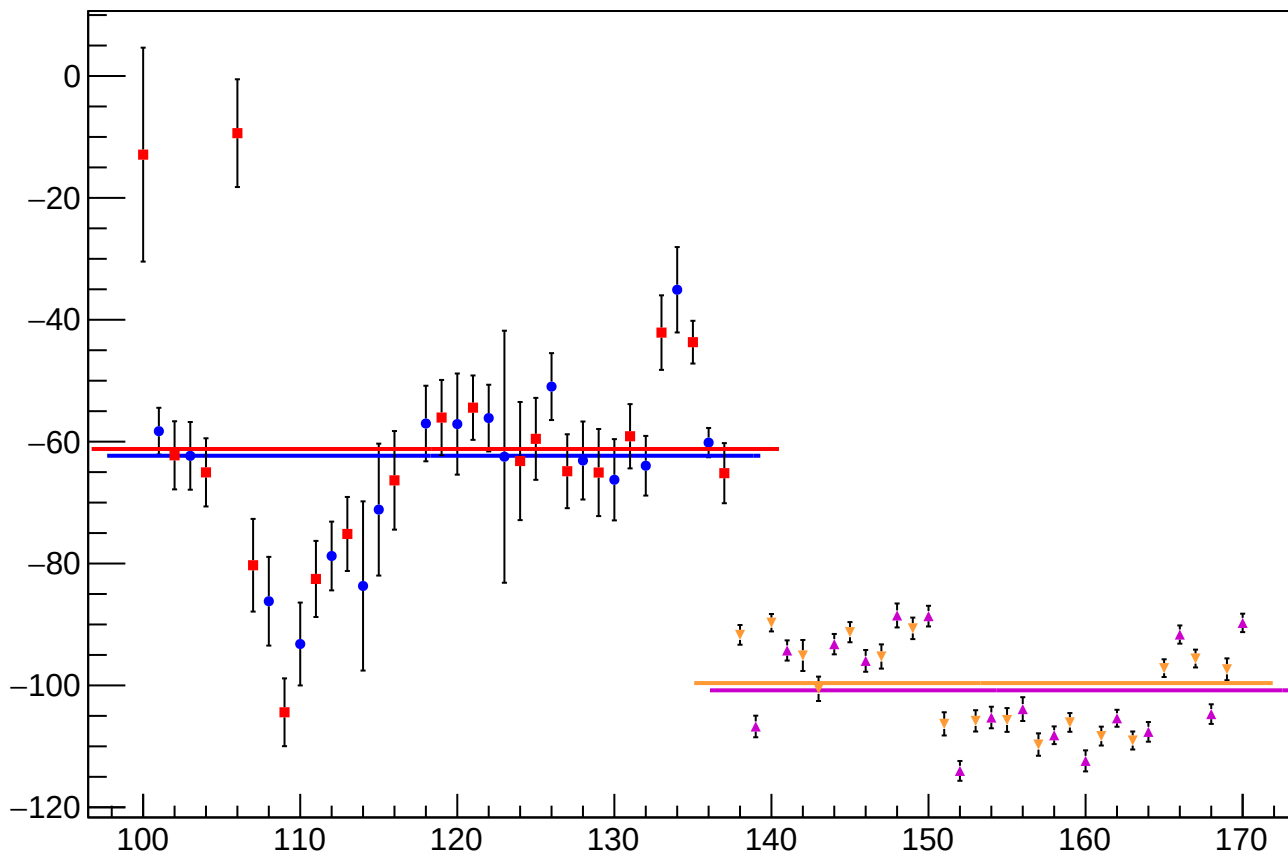
Right: -47.681 ± 0.527 $\chi^2/\text{NDF}: 2358.7/35$

In: -37.795 ± 0.284 $\chi^2/\text{NDF}: 2491.6/32$

Out: -37.554 ± 0.279 $\chi^2/\text{NDF}: 2063.8/35$

All: -37.673 ± 0.199 $\chi^2/\text{NDF}: 4555.8/68$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



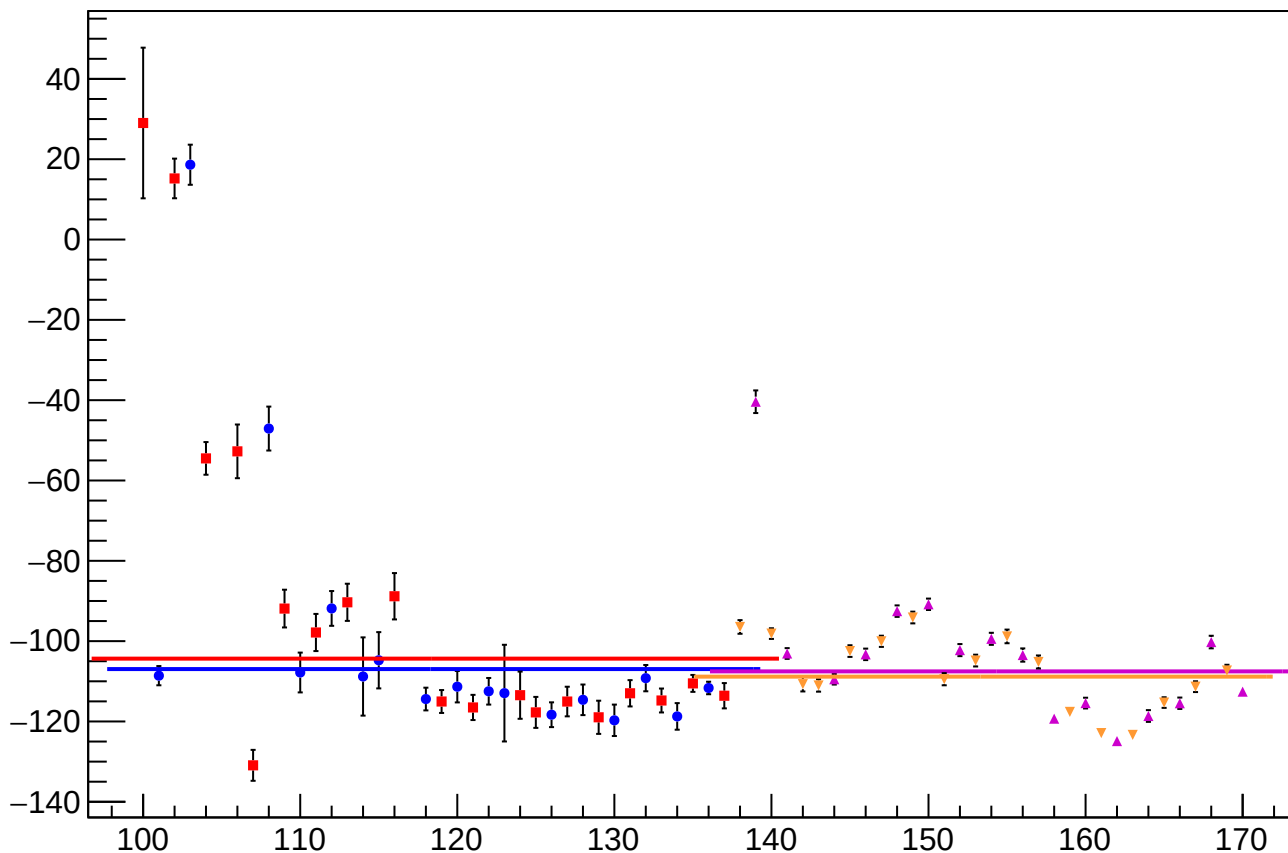
Right In: -62.315 ± 1.316 $\chi^2/\text{NDF}: 67.1/16$
 Left Out: -99.617 ± 0.411 $\chi^2/\text{NDF}: 298.1/16$
 Right Out: -61.203 ± 1.381 $\chi^2/\text{NDF}: 165.0/18$
 Left In: -100.807 ± 0.412 $\chi^2/\text{NDF}: 416.8/15$

Left: -100.211 ± 0.291 $\chi^2/\text{NDF}: 719.1/32$
 Right: -61.786 ± 0.953 $\chi^2/\text{NDF}: 232.5/35$

In: -97.376 ± 0.393 $\chi^2/\text{NDF}: 1263.7/32$
 Out: -96.496 ± 0.394 $\chi^2/\text{NDF}: 1174.0/35$

All: -96.937 ± 0.278 $\chi^2/\text{NDF}: 2440.2/68$

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -106.954 ± 0.817 $\chi^2/\text{NDF}: 827.2/16$

Left Out: -108.840 ± 0.346 $\chi^2/\text{NDF}: 686.0/16$

Right Out: -104.356 ± 0.861 $\chi^2/\text{NDF}: 1021.0/18$

Left In: -107.532 ± 0.353 $\chi^2/\text{NDF}: 1362.2/15$

Left: -108.199 ± 0.247 $\chi^2/\text{NDF}: 2055.2/32$

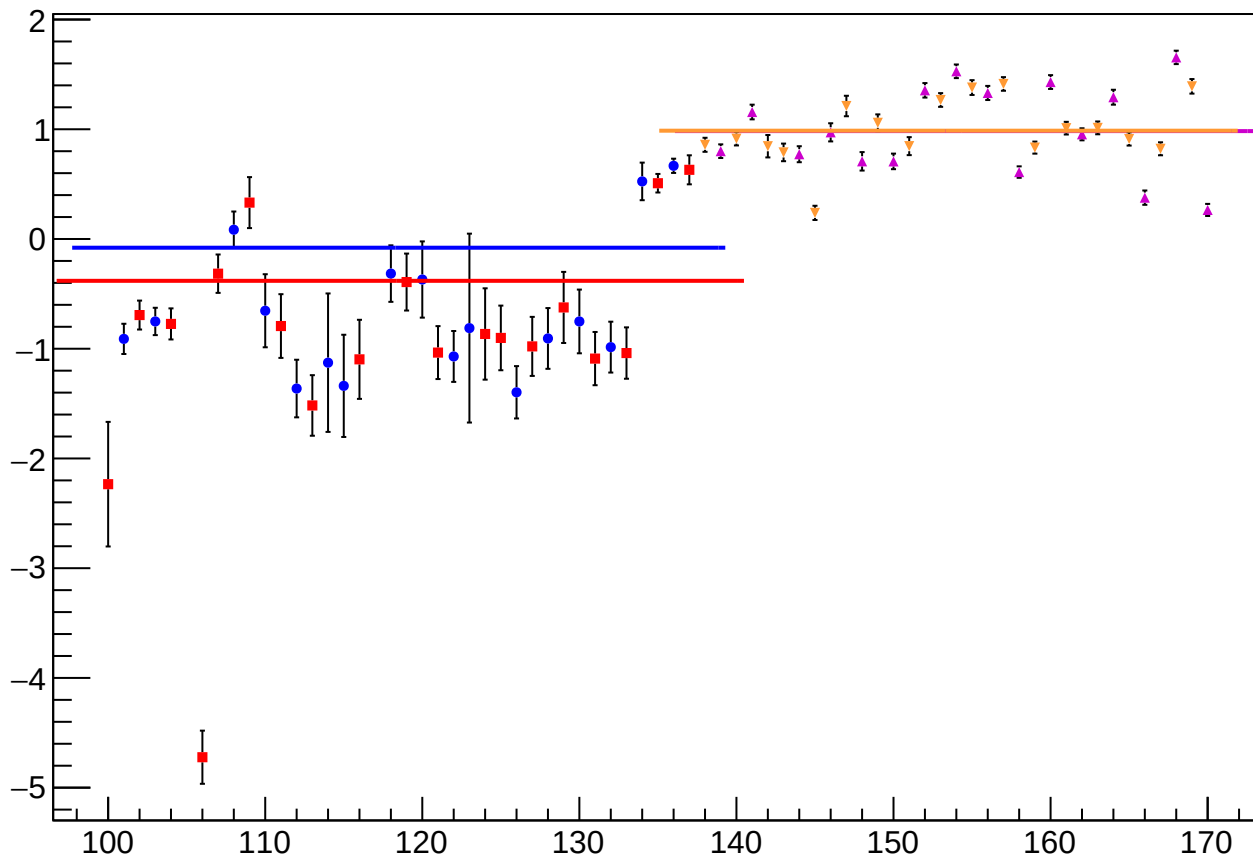
Right: -105.723 ± 0.593 $\chi^2/\text{NDF}: 1853.0/35$

In: -107.441 ± 0.324 $\chi^2/\text{NDF}: 2189.9/32$

Out: -108.218 ± 0.321 $\chi^2/\text{NDF}: 1730.3/35$

All: -107.833 ± 0.228 $\chi^2/\text{NDF}: 3923.1/68$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.079 ± 0.042 χ^2/NDF : 328.5/16

Left Out: 0.987 ± 0.016 χ^2/NDF : 312.1/16

Right Out: -0.381 ± 0.044 χ^2/NDF : 580.5/18

Left In: 0.983 ± 0.016 χ^2/NDF : 686.7/15

Left: 0.985 ± 0.011 χ^2/NDF : 998.8/32

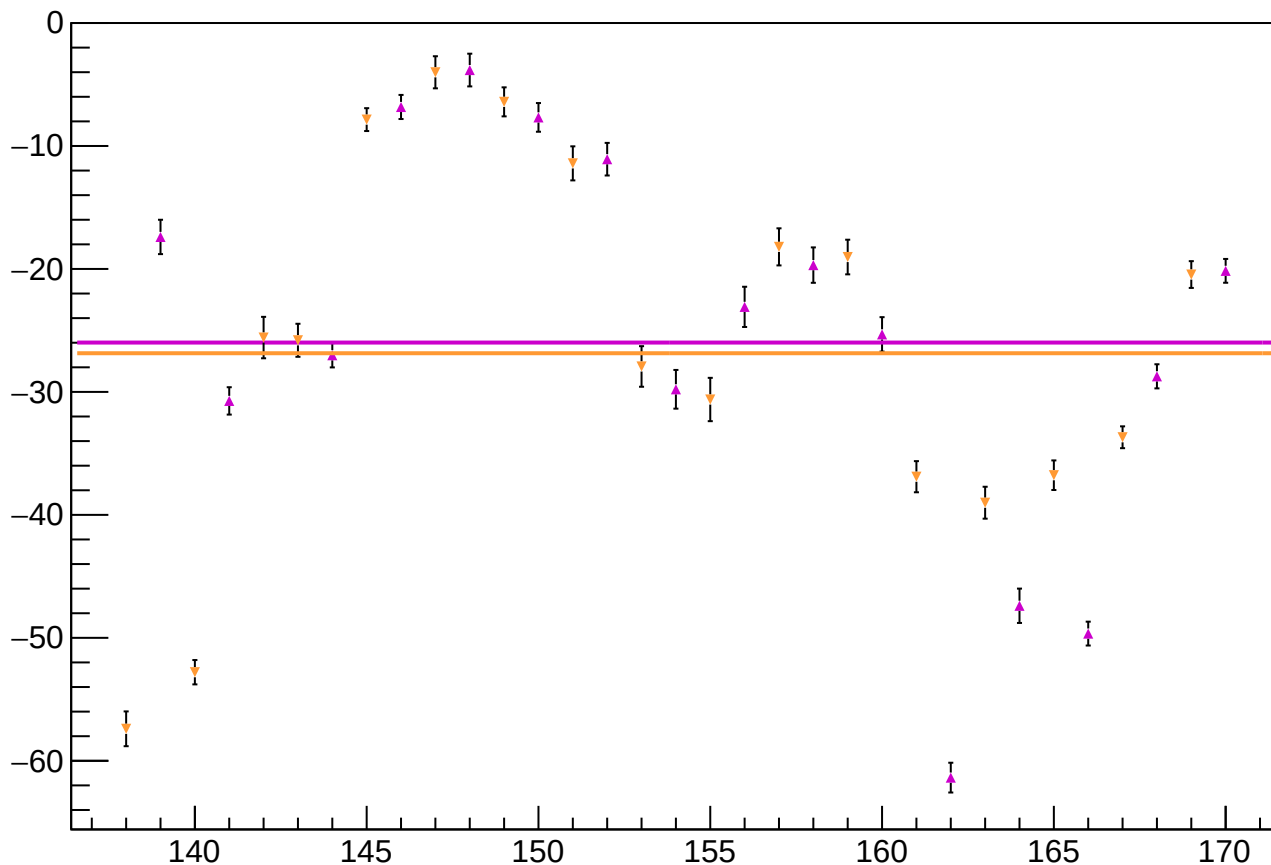
Right: -0.224 ± 0.030 χ^2/NDF : 933.5/35

In: 0.849 ± 0.015 χ^2/NDF : 1567.7/32

Out: 0.826 ± 0.015 χ^2/NDF : 1745.3/35

All: 0.838 ± 0.011 χ^2/NDF : 3314.2/68

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -26.855+/-0.301 χ^2/NDF : 2683.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -25.987+/-0.296 χ^2/NDF : 2845.9/15

Left: -26.415+/-0.211 χ^2/NDF : 5533.6/32

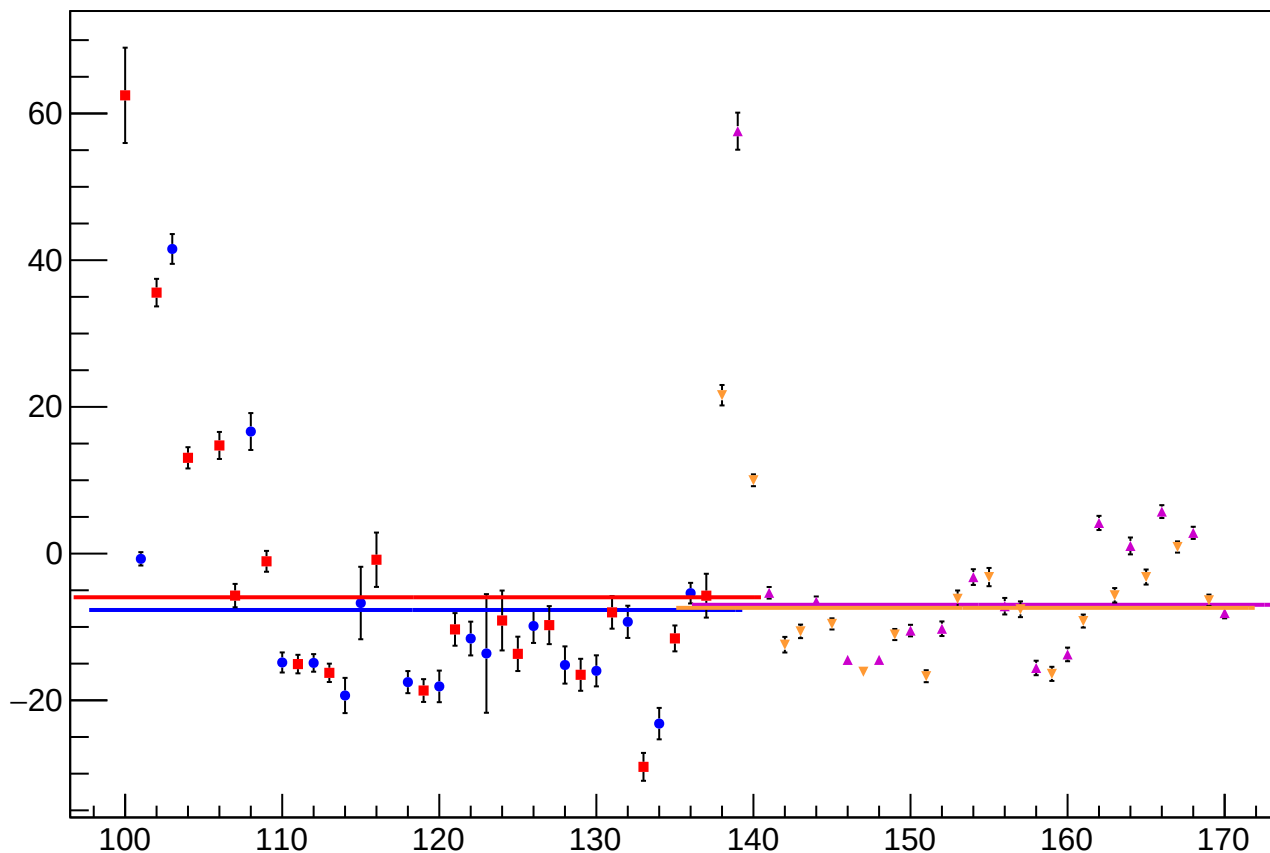
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -25.987+/-0.296 χ^2/NDF : 2845.9/15

Out: -26.855+/-0.301 χ^2/NDF : 2683.5/16

All: -26.415+/-0.211 χ^2/NDF : 5533.6/32

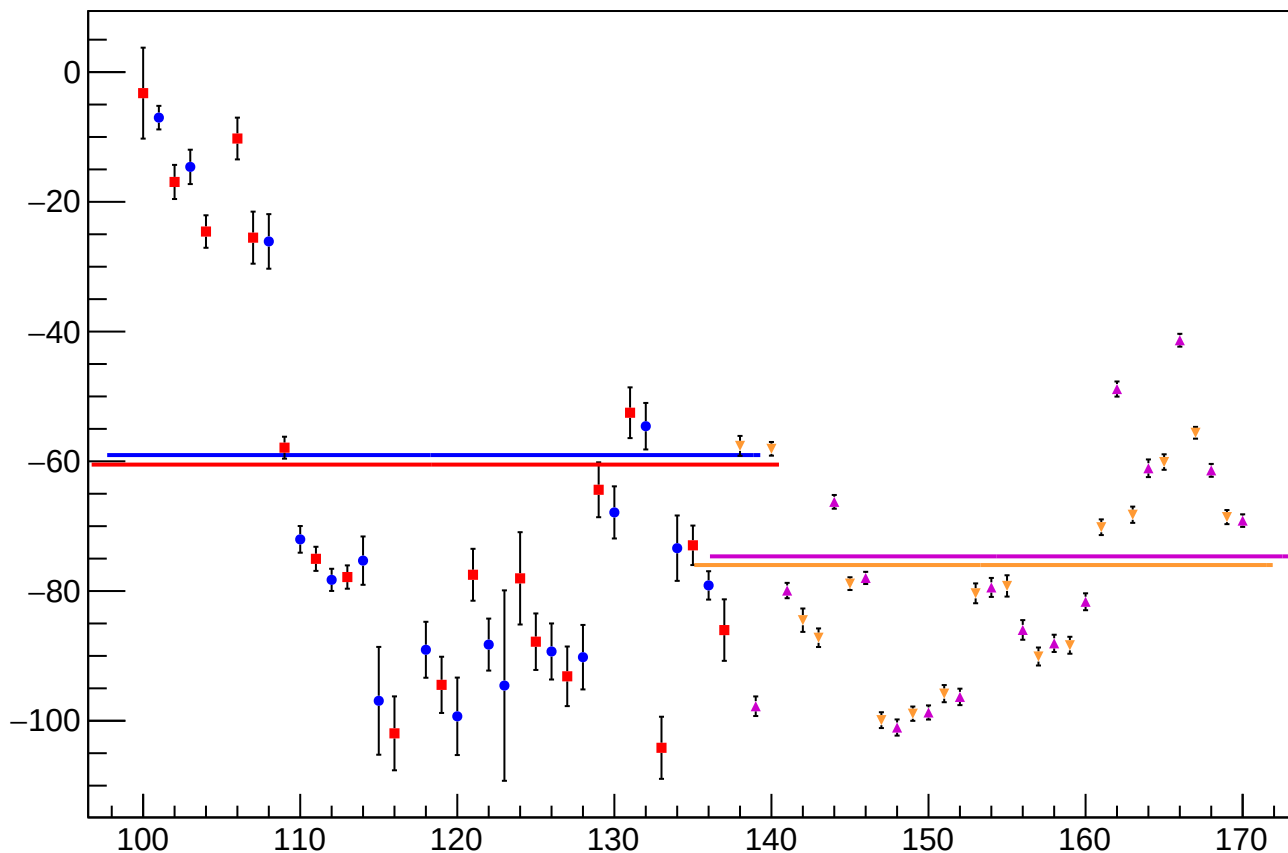
reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.686 ± 0.430 χ^2/NDF : 975.9/16
 Left Out: -7.395 ± 0.215 χ^2/NDF : 1529.9/16
 Right Out: -5.953 ± 0.429 χ^2/NDF : 1298.1/18
 Left In: -6.978 ± 0.215 χ^2/NDF : 1645.7/15

Left: -7.186 ± 0.152 χ^2/NDF : 3177.4/32
 Right: -6.817 ± 0.304 χ^2/NDF : 2282.2/35
 In: -7.119 ± 0.192 χ^2/NDF : 2623.8/32
 Out: -7.105 ± 0.192 χ^2/NDF : 2837.0/35
 All: -7.112 ± 0.136 χ^2/NDF : 5460.8/68

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -59.039 ± 0.746 χ^2/NDF : 1709.5/16

Left Out: -75.992 ± 0.299 χ^2/NDF : 2556.6/16

Right Out: -60.507 ± 0.704 χ^2/NDF : 1384.8/18

Left In: -74.654 ± 0.292 χ^2/NDF : 3687.8/15

Left: -75.308 ± 0.209 χ^2/NDF : 6254.7/32

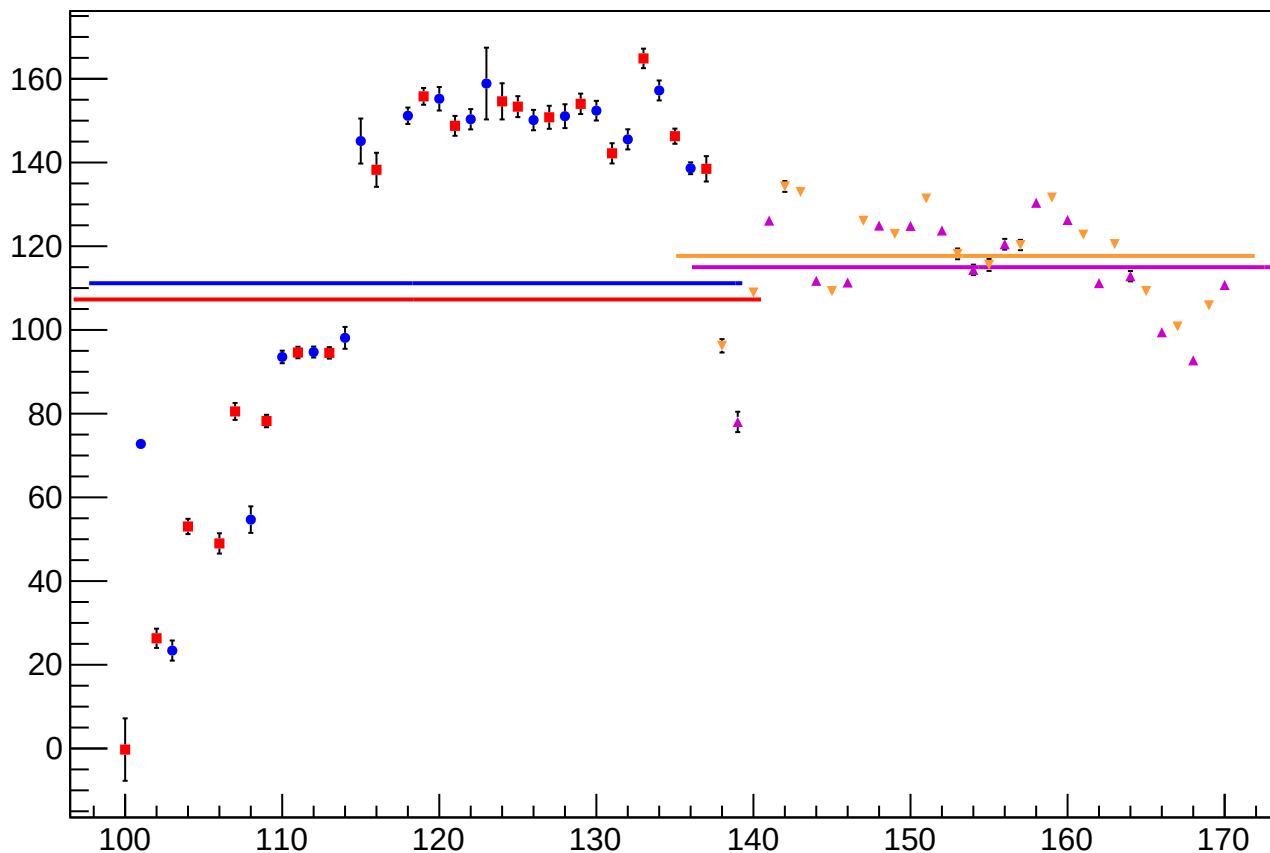
Right: -59.815 ± 0.512 χ^2/NDF : 3096.4/35

In: -72.575 ± 0.272 χ^2/NDF : 5777.5/32

Out: -73.629 ± 0.275 χ^2/NDF : 4350.9/35

All: -73.096 ± 0.193 χ^2/NDF : 10135.8/68

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 111.160 $\pm$ 0.489 χ^2 /NDF: 5877.6/16

Left Out: 117.689 $\pm$ 0.250 χ^2 /NDF:1889.3/16

Right Out: 107.283 $\pm$ 0.488 χ^2 /NDF: 7055.1/18

Left In: 114.990 $\pm$ 0.249 χ^2 /NDF:1911.0/15

Left: 116.332 $\pm$ 0.176 χ^2 /NDF: 3858.8/32

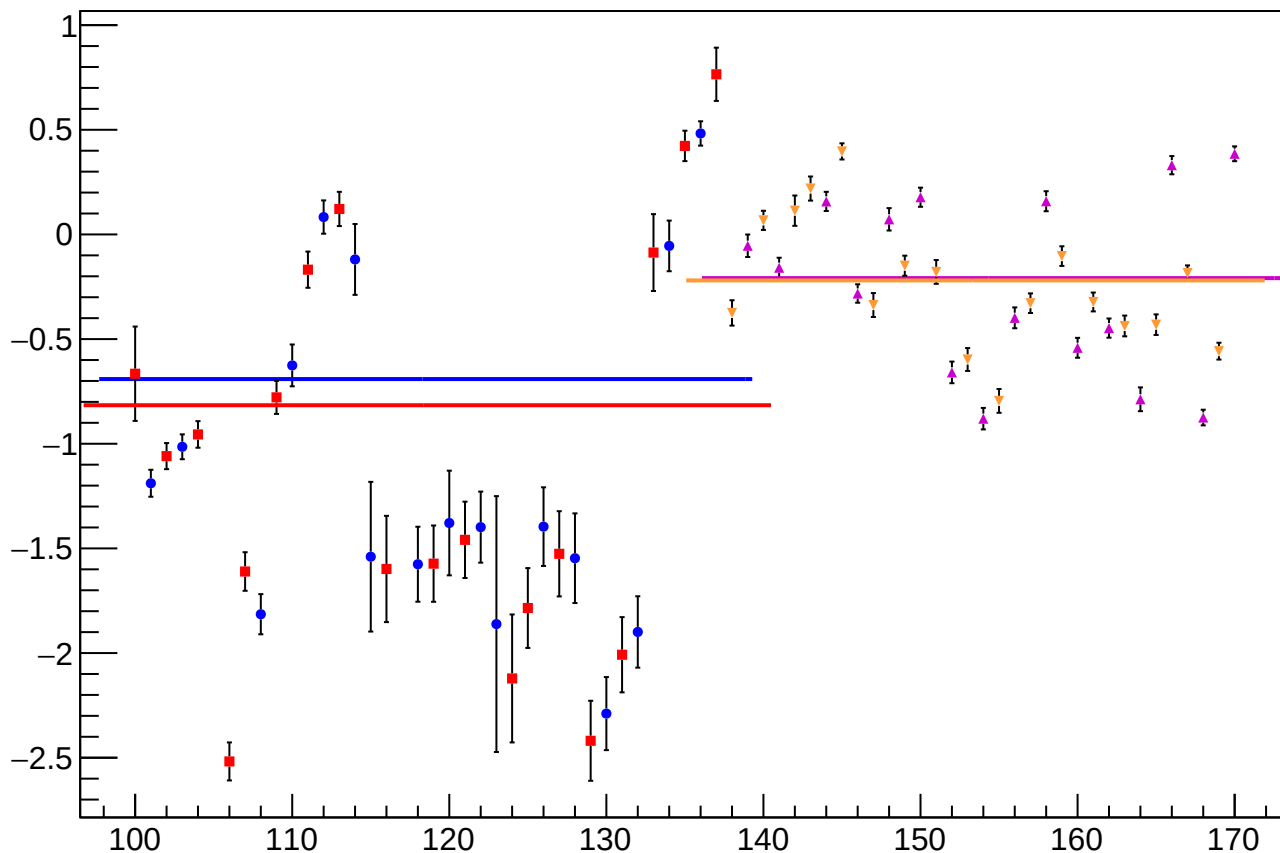
Right: 109.217 $\pm$ 0.345 χ^2 /NDF: 12964.2/35

In: 114.203 $\pm$ 0.222 χ^2 /NDF:7837.3/32

Out: 115.521 $\pm$ 0.223 χ^2 /NDF:9304.8/35

All: 114.859 $\pm$ 0.157 χ^2 /NDF: 17159.7/68

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.691 ± 0.026 χ^2/NDF : 990.9/16

Left Out: -0.220 ± 0.012 χ^2/NDF : 663.5/16

Right Out: -0.816 ± 0.024 χ^2/NDF : 1304.4/18

Left In: -0.209 ± 0.012 χ^2/NDF : 1429.1/15

Left: -0.214 ± 0.008 χ^2/NDF : 2093.0/32

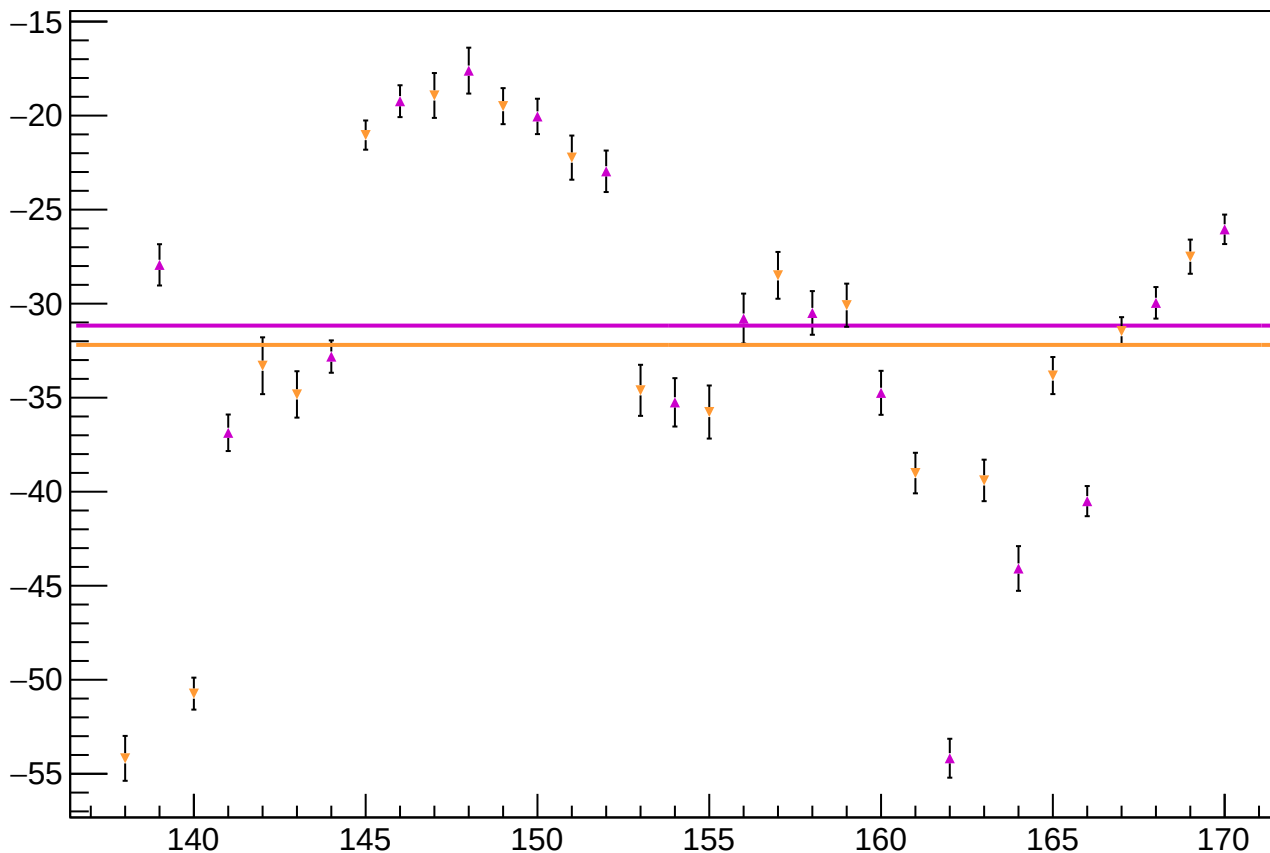
Right: -0.757 ± 0.018 χ^2/NDF : 2307.7/35

In: -0.289 ± 0.011 χ^2/NDF : 2710.5/32

Out: -0.333 ± 0.011 χ^2/NDF : 2453.1/35

All: -0.311 ± 0.007 χ^2/NDF : 5172.1/68

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



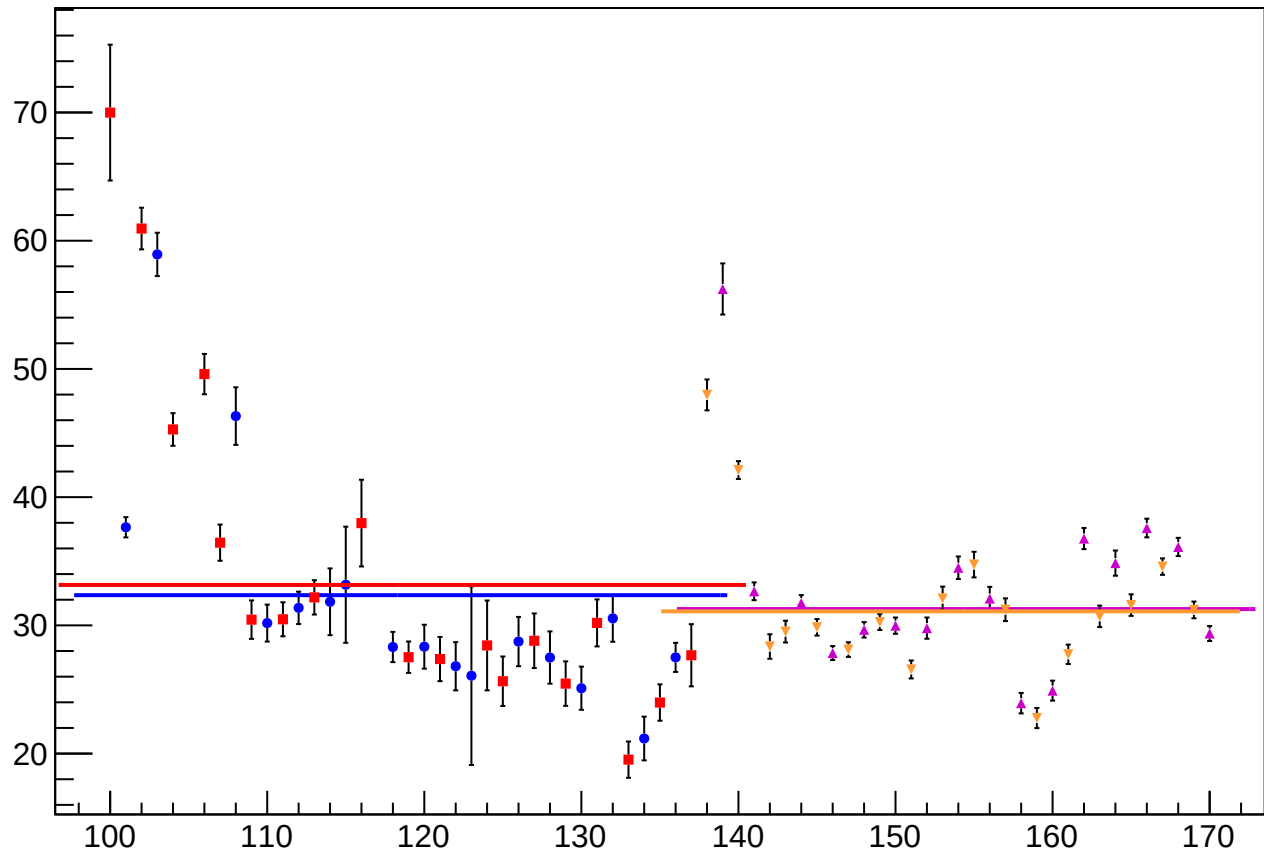
Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left Out: -32.194 $\pm$ 0.254 χ^2/NDF :1532.8/16
 Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left In: -31.671 $\pm$ 0.249 χ^2/NDF :1376.3/15

Left: -31.671 $\pm$ 0.178 χ^2/NDF : 2917.4/32
 Right: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

In: -31.167 $\pm$ 0.249 χ^2/NDF :1376.3/15
 Out: -32.194 $\pm$ 0.254 χ^2/NDF :1532.8/16

All: -31.671 $\pm$ 0.178 χ^2/NDF : 2917.4/32

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 32.355 ± 0.375 $\chi^2/\text{NDF}: 450.5/16$

Left Out: 31.095 ± 0.183 $\chi^2/\text{NDF}: 708.6/16$

Right Out: 33.152 ± 0.379 $\chi^2/\text{NDF}: 772.0/18$

Left In: 31.270 ± 0.183 $\chi^2/\text{NDF}: 571.4/15$

Left: 31.183 ± 0.129 $\chi^2/\text{NDF}: 1280.4/32$

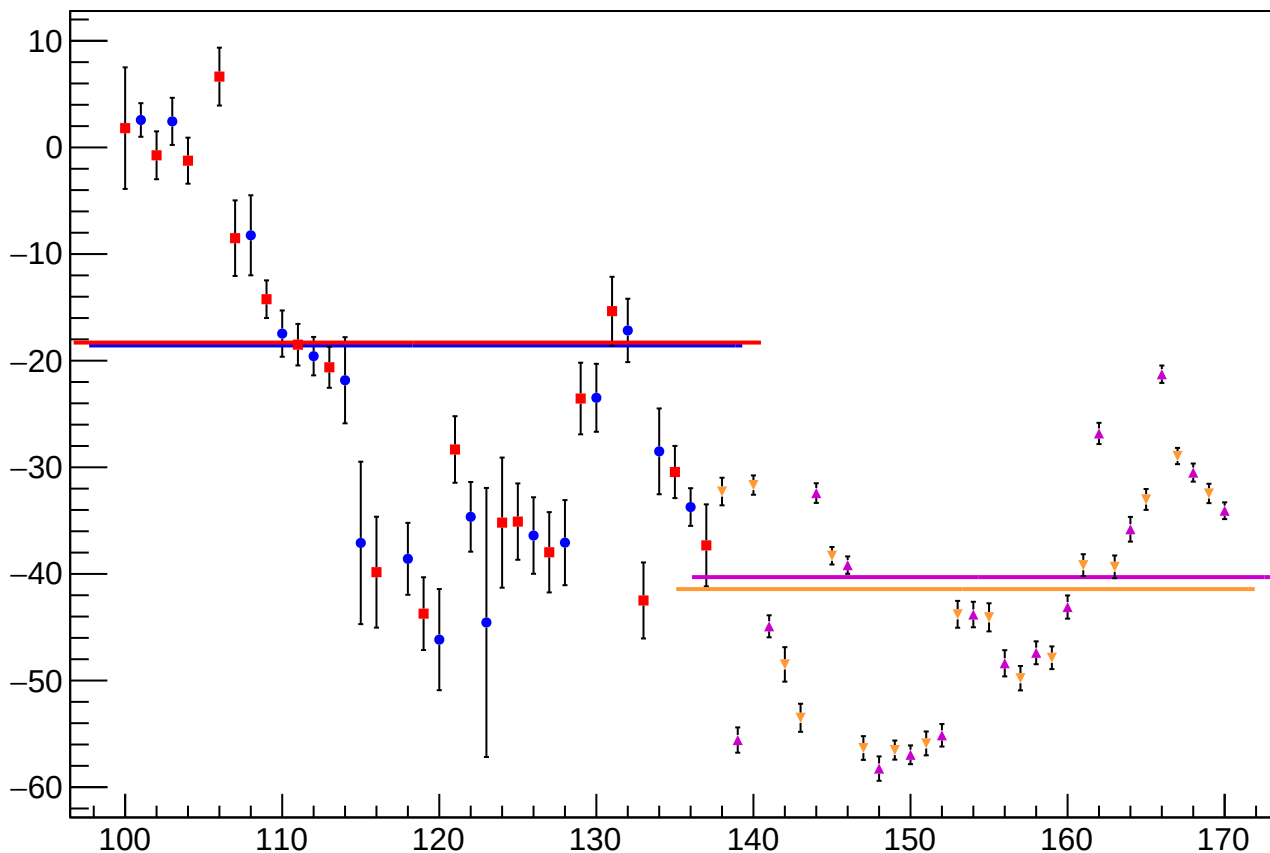
Right: 32.750 ± 0.267 $\chi^2/\text{NDF}: 1224.7/35$

In: 31.478 ± 0.164 $\chi^2/\text{NDF}: 1028.7/32$

Out: 31.485 ± 0.165 $\chi^2/\text{NDF}: 1504.4/35$

All: 31.482 ± 0.116 $\chi^2/\text{NDF}: 2533.1/68$

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -18.572 ± 0.667 χ^2/NDF : 511.5/16

Left Out: -41.421 ± 0.252 χ^2/NDF : 1459.3/16

Right Out: -18.300 ± 0.644 χ^2/NDF : 473.4/18

Left In: -40.300 ± 0.245 χ^2/NDF : 2102.9/15

Left: -40.846 ± 0.176 χ^2/NDF : 3572.4/32

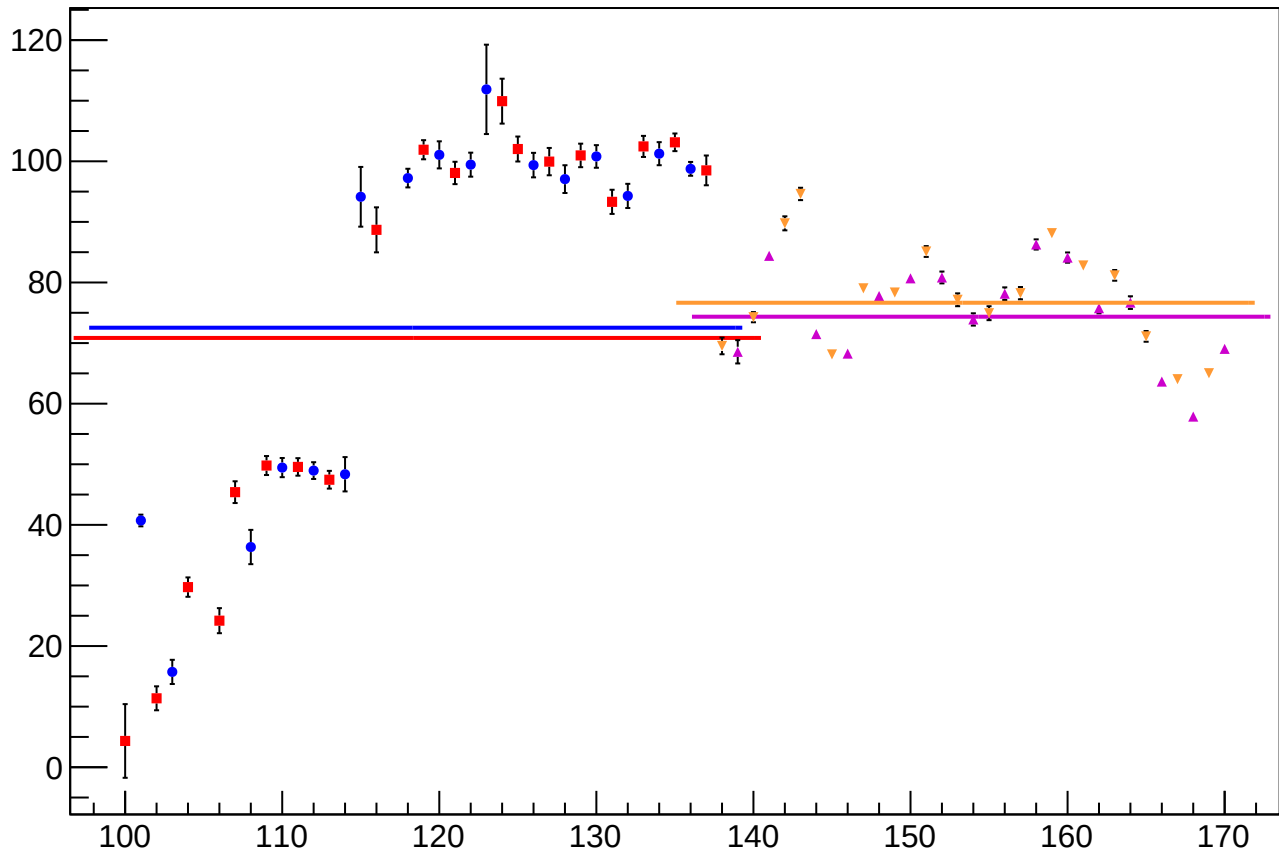
Right: -18.431 ± 0.463 χ^2/NDF : 984.9/35

In: -37.715 ± 0.230 χ^2/NDF : 3548.1/32

Out: -38.353 ± 0.235 χ^2/NDF : 3051.2/35

All: -38.028 ± 0.164 χ^2/NDF : 6603.0/68

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 72.537 ± 0.428 $\chi^2/\text{NDF}: 4684.1/16$

Left Out: 76.656 ± 0.212 $\chi^2/\text{NDF}: 1607.8/16$

Right Out: 70.849 ± 0.433 $\chi^2/\text{NDF}: 5500.2/18$

Left In: 74.353 ± 0.210 $\chi^2/\text{NDF}: 1399.3/15$

Left: 75.494 ± 0.149 $\chi^2/\text{NDF}: 3066.6/32$

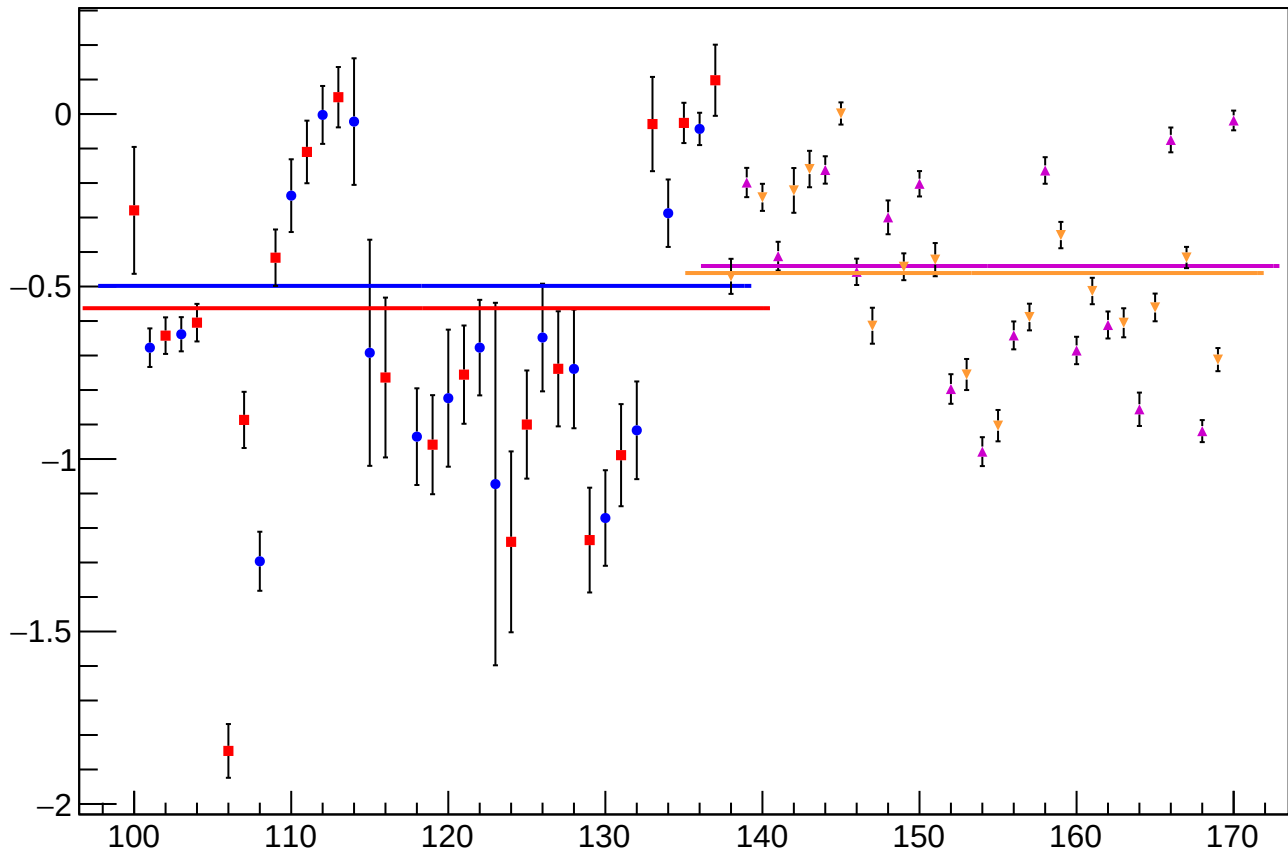
Right: 71.702 ± 0.305 $\chi^2/\text{NDF}: 10192.0/35$

In: 74.001 ± 0.189 $\chi^2/\text{NDF}: 6097.9/32$

Out: 75.534 ± 0.190 $\chi^2/\text{NDF}: 7253.0/35$

All: 74.760 ± 0.134 $\chi^2/\text{NDF}: 13383.6/68$

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.498 ± 0.022 χ^2/NDF : 302.8/16

Left Out: -0.461 ± 0.010 χ^2/NDF : 528.1/16

Right Out: -0.563 ± 0.021 χ^2/NDF : 560.8/18

Left In: -0.441 ± 0.010 χ^2/NDF : 1119.3/15

Left: -0.450 ± 0.007 χ^2/NDF : 1649.6/32

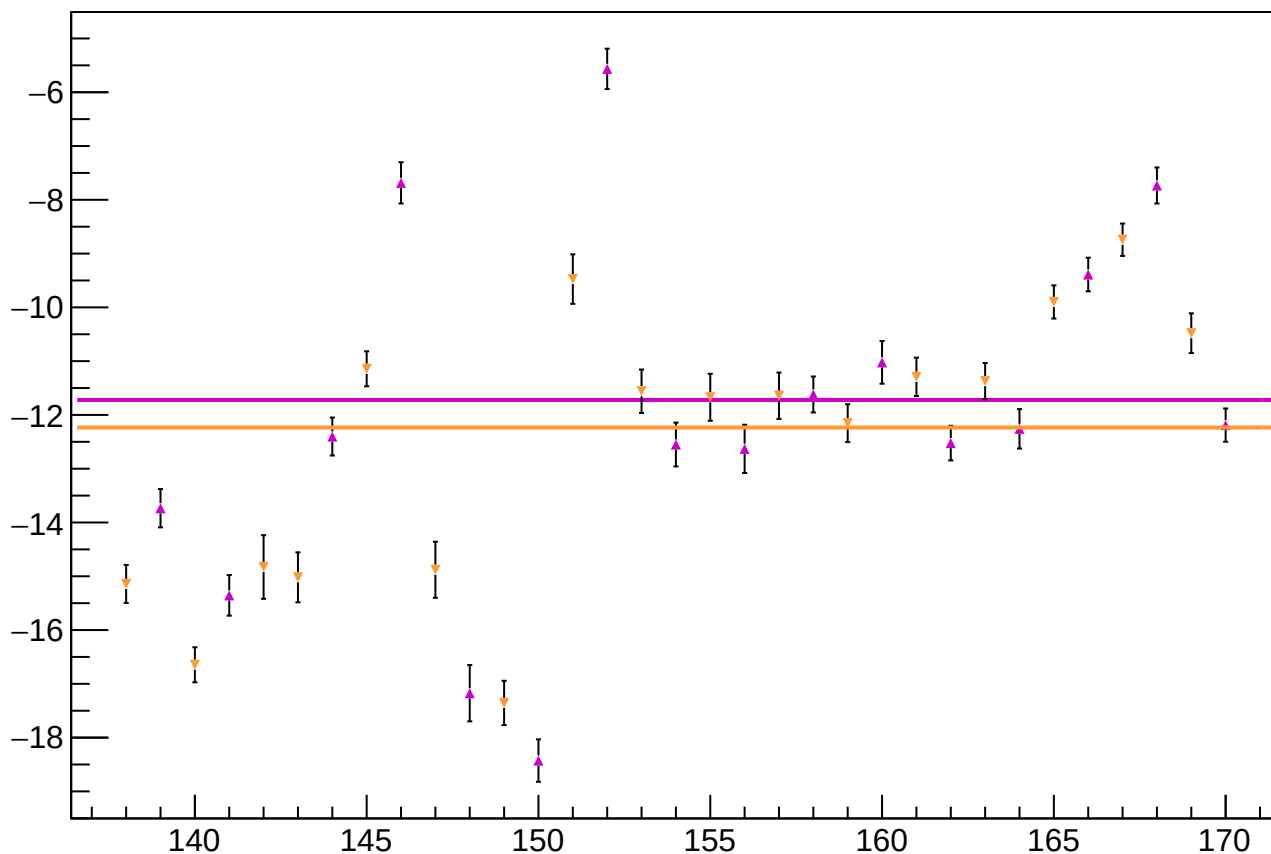
Right: -0.532 ± 0.015 χ^2/NDF : 867.9/35

In: -0.450 ± 0.009 χ^2/NDF : 1427.7/32

Out: -0.479 ± 0.009 χ^2/NDF : 1107.5/35

All: -0.464 ± 0.006 χ^2/NDF : 2540.6/68

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



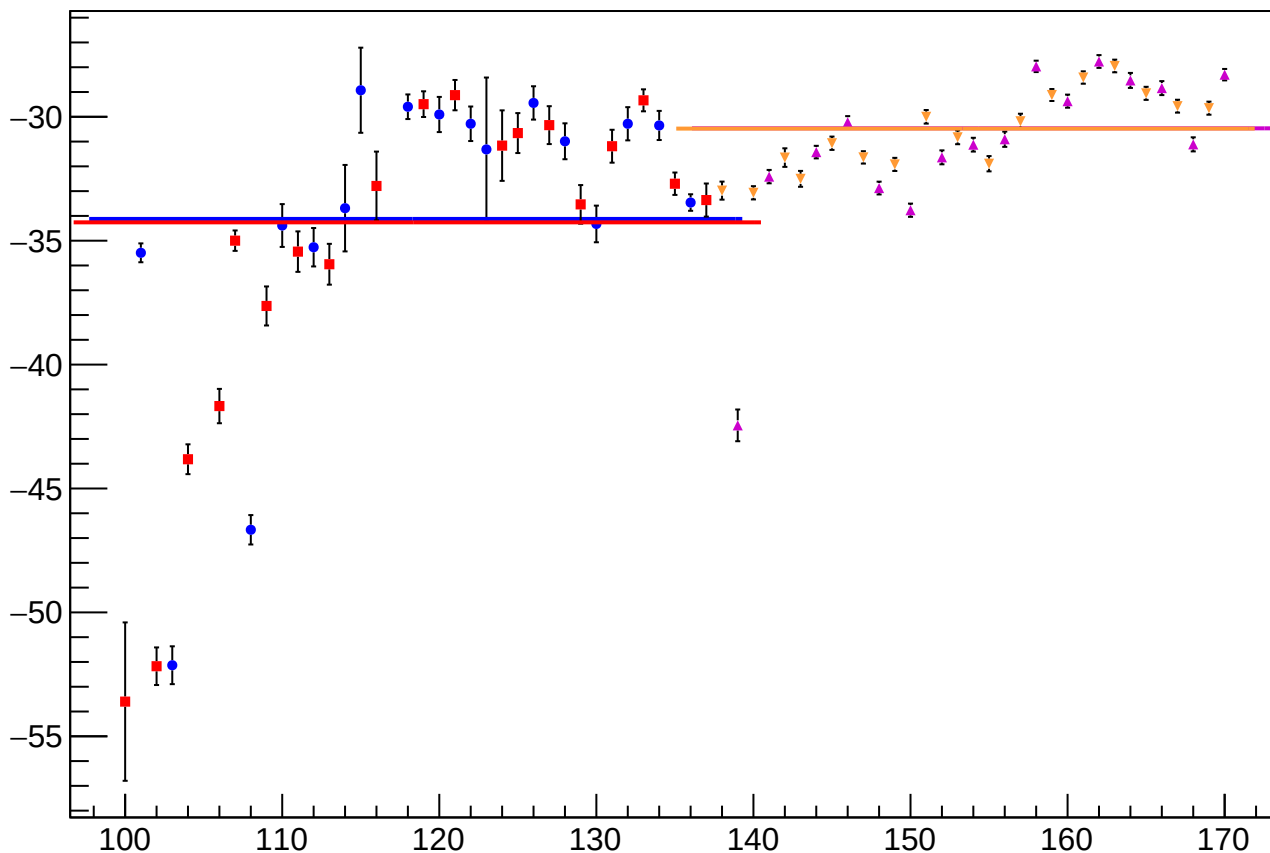
Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -12.234+/-0.092 χ^2/NDF :768.3/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -11.721+/-0.091 χ^2/NDF :1124.7/15

Left: -11.977+/-0.065 χ^2/NDF : 1908.7/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -11.721+/-0.091 χ^2/NDF :1124.7/15
 Out: -12.234+/-0.092 χ^2/NDF :768.3/16

All: -11.977+/-0.065 χ^2/NDF : 1908.7/32

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.122 ± 0.152 $\chi^2/\text{NDF}: 1322.4/16$

Left Out: -30.476 ± 0.067 $\chi^2/\text{NDF}: 521.2/16$

Right Out: -34.260 ± 0.151 $\chi^2/\text{NDF}: 1354.9/18$

Left In: -30.465 ± 0.068 $\chi^2/\text{NDF}: 1093.7/15$

Left: -30.471 ± 0.048 $\chi^2/\text{NDF}: 1615.0/32$

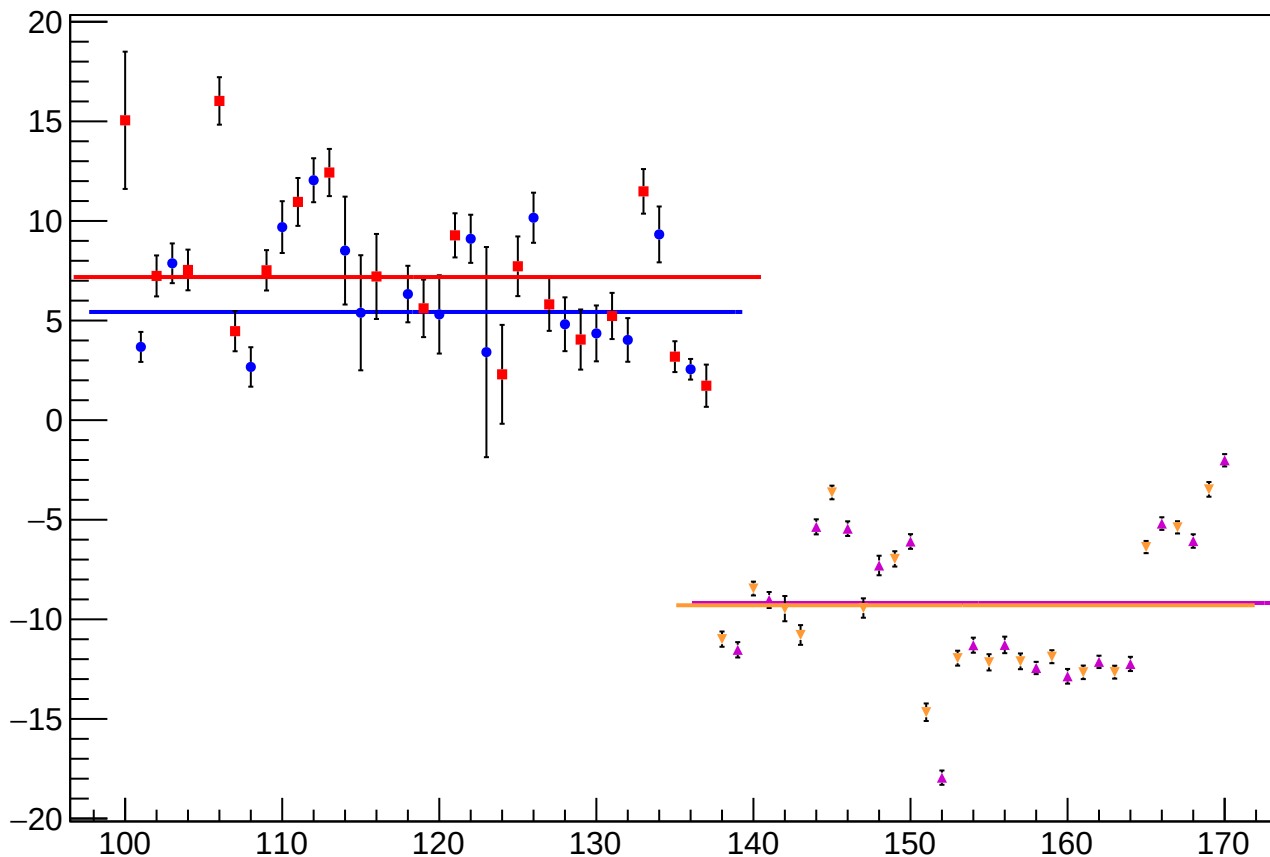
Right: -34.191 ± 0.107 $\chi^2/\text{NDF}: 2677.8/35$

In: -31.078 ± 0.062 $\chi^2/\text{NDF}: 2899.2/32$

Out: -31.103 ± 0.061 $\chi^2/\text{NDF}: 2401.2/35$

All: -31.090 ± 0.044 $\chi^2/\text{NDF}: 5300.5/68$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 5.431 ± 0.270 $\chi^2/\text{NDF}: 132.0/16$

Left Out: -9.294 ± 0.091 $\chi^2/\text{NDF}: 1410.6/16$

Right Out: 7.185 ± 0.274 $\chi^2/\text{NDF}: 182.1/18$

Left In: -9.179 ± 0.090 $\chi^2/\text{NDF}: 2132.1/15$

Left: -9.236 ± 0.064 $\chi^2/\text{NDF}: 3543.6/32$

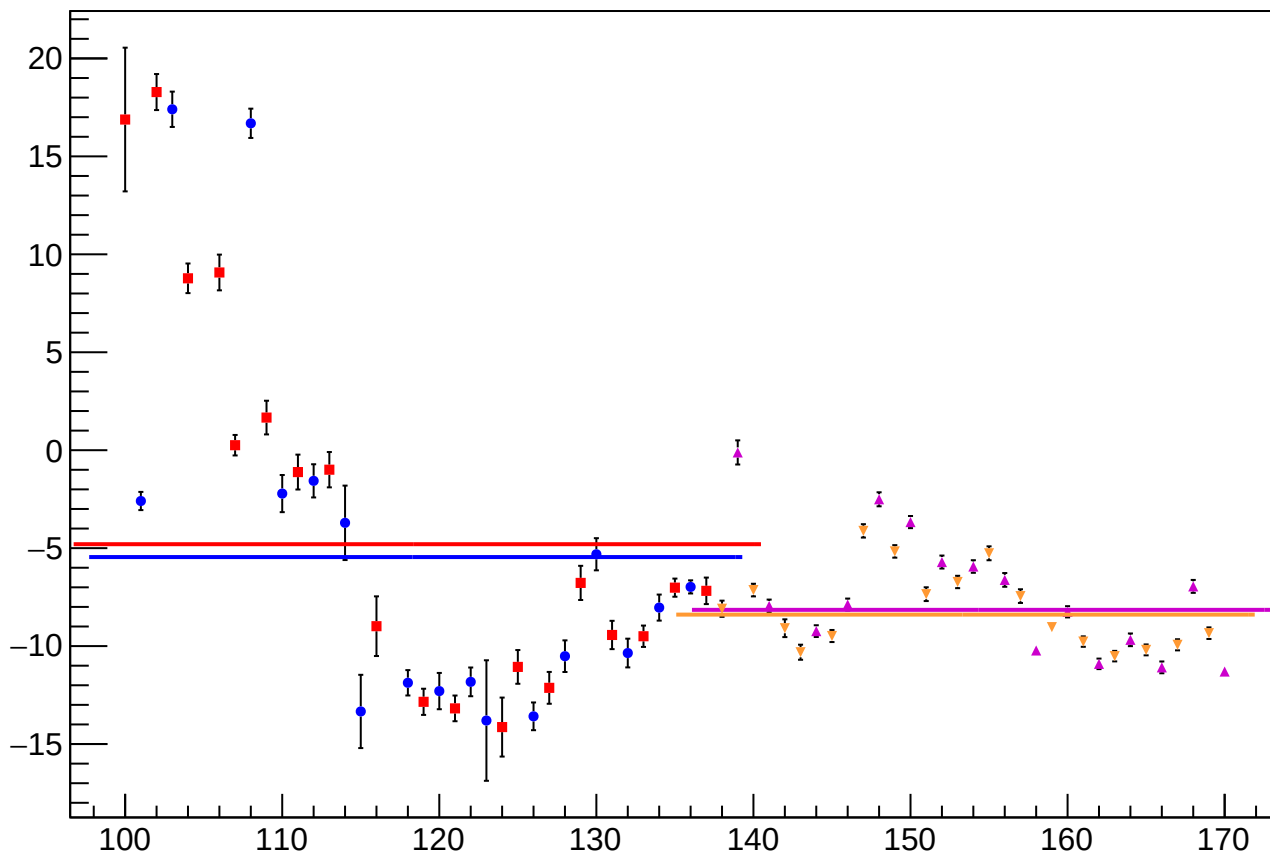
Right: 6.295 ± 0.193 $\chi^2/\text{NDF}: 334.8/35$

In: -7.732 ± 0.085 $\chi^2/\text{NDF}: 4894.4/32$

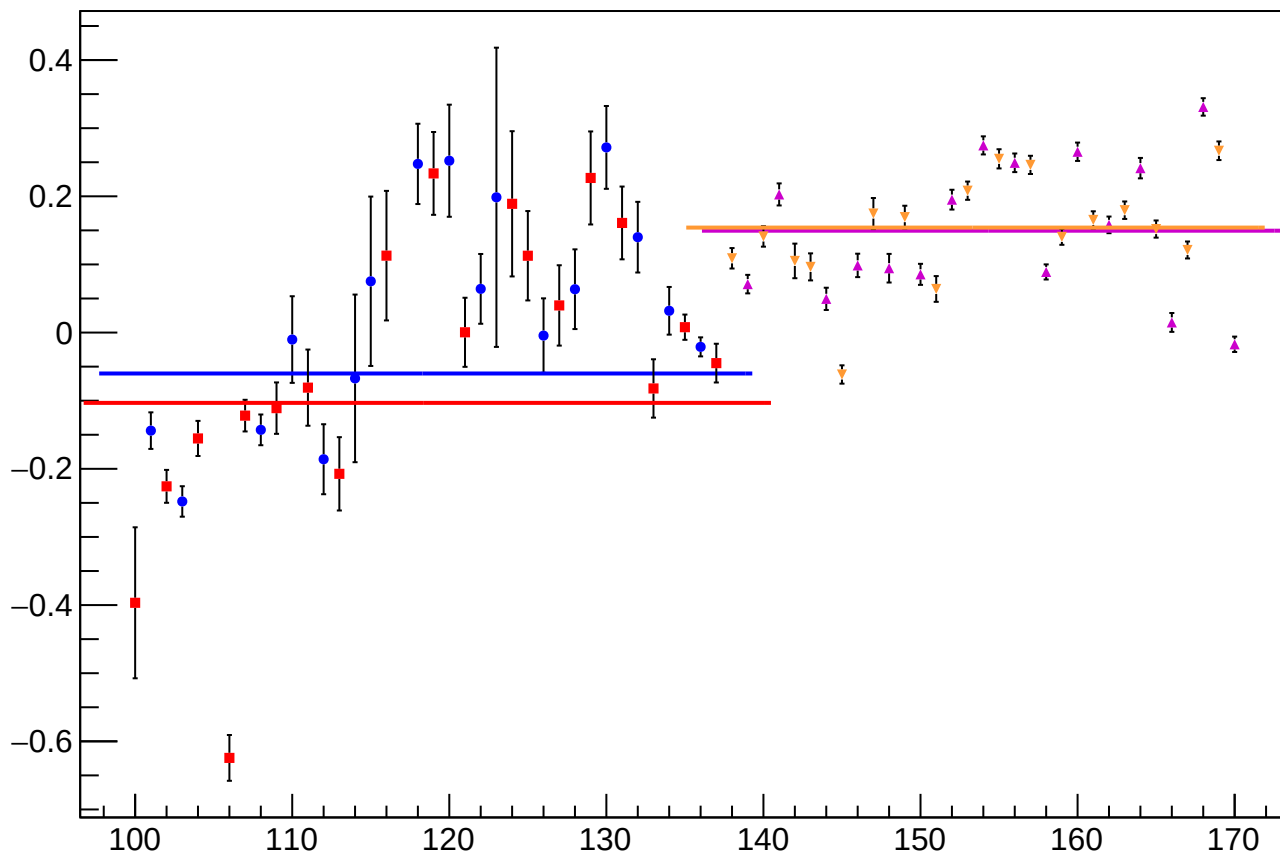
Out: -7.675 ± 0.086 $\chi^2/\text{NDF}: 4843.8/35$

All: -7.704 ± 0.060 $\chi^2/\text{NDF}: 9738.5/68$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.060 ± 0.008 χ^2/NDF : 215.5/16

Left Out: 0.154 ± 0.004 χ^2/NDF : 499.9/16

Right Out: -0.103 ± 0.008 χ^2/NDF : 434.3/18

Left In: 0.150 ± 0.003 χ^2/NDF : 922.3/15

Left: 0.152 ± 0.002 χ^2/NDF : 1423.1/32

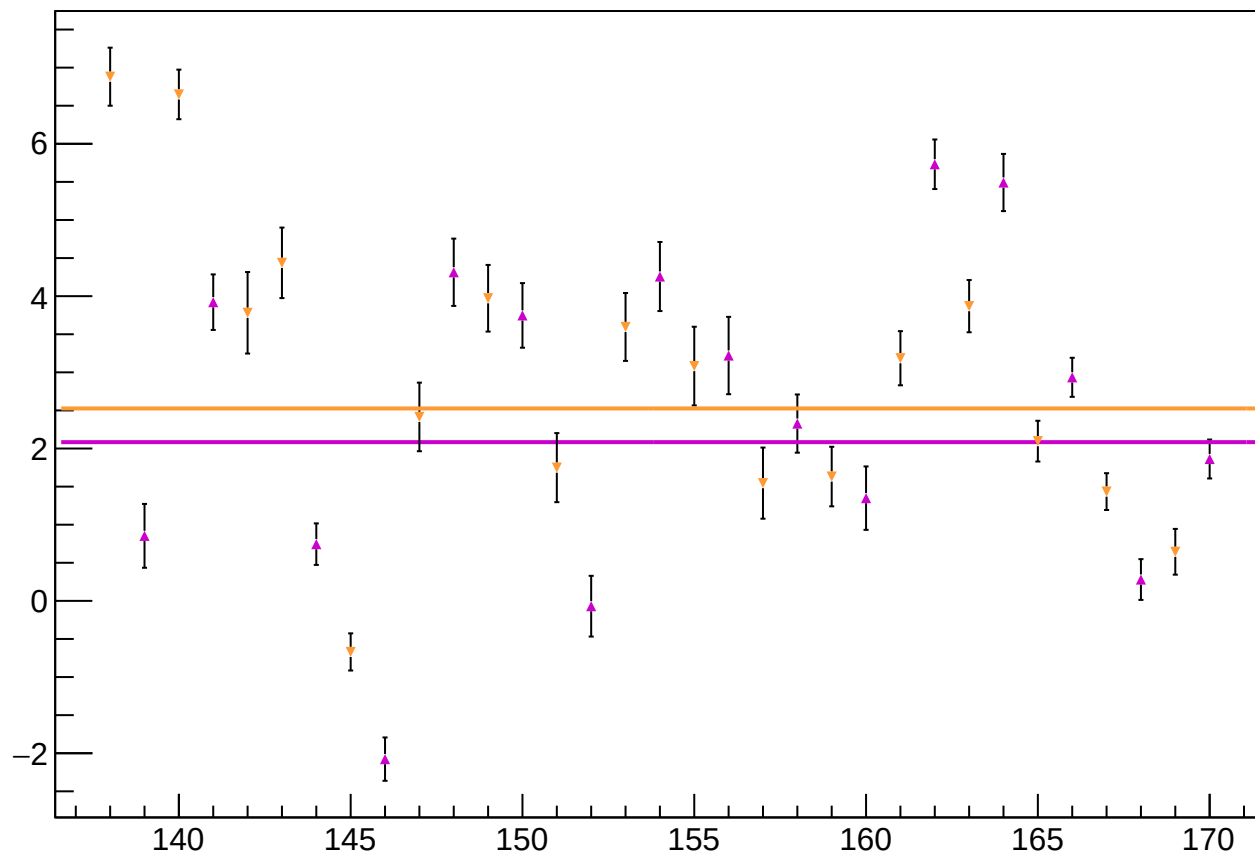
Right: -0.082 ± 0.006 χ^2/NDF : 662.9/35

In: 0.119 ± 0.003 χ^2/NDF : 1668.8/32

Out: 0.116 ± 0.003 χ^2/NDF : 1726.4/35

All: 0.117 ± 0.002 χ^2/NDF : 3395.6/68

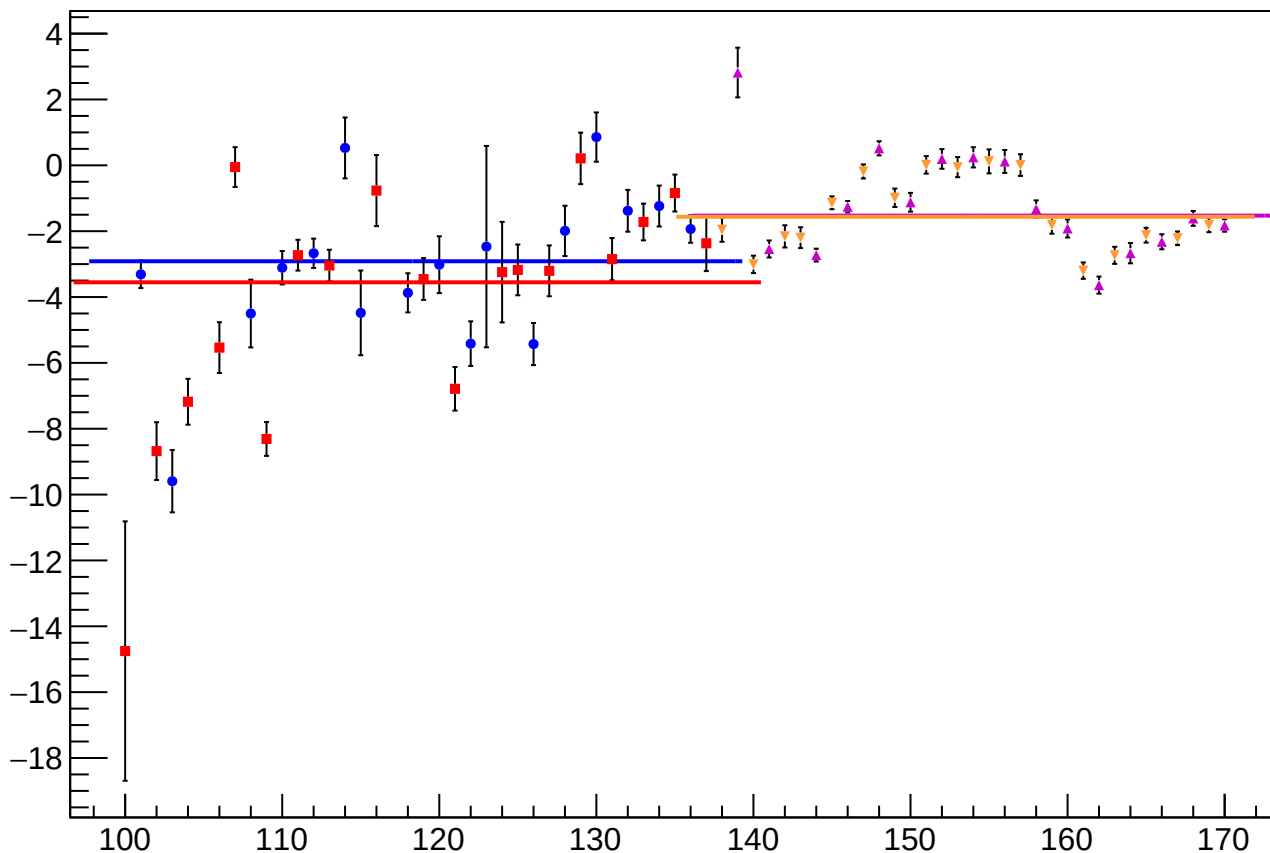
reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: 2.526 ± 0.086 $\chi^2/\text{NDF}: 597.0/16$
 Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Left In: 2.084 ± 0.085 $\chi^2/\text{NDF}: 639.0/15$

Left: 2.302 ± 0.060 $\chi^2/\text{NDF}: 1249.4/32$
 Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 In: 2.084 ± 0.085 $\chi^2/\text{NDF}: 639.0/15$
 Out: 2.526 ± 0.086 $\chi^2/\text{NDF}: 597.0/16$
 All: 2.302 ± 0.060 $\chi^2/\text{NDF}: 1249.4/32$

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.914 ± 0.155 χ^2/NDF : 146.1/16

Left Out: -1.564 ± 0.063 χ^2/NDF : 274.0/16

Right Out: -3.553 ± 0.155 χ^2/NDF : 290.9/18

Left In: -1.527 ± 0.062 χ^2/NDF : 366.6/15

Left: -1.545 ± 0.044 χ^2/NDF : 640.7/32

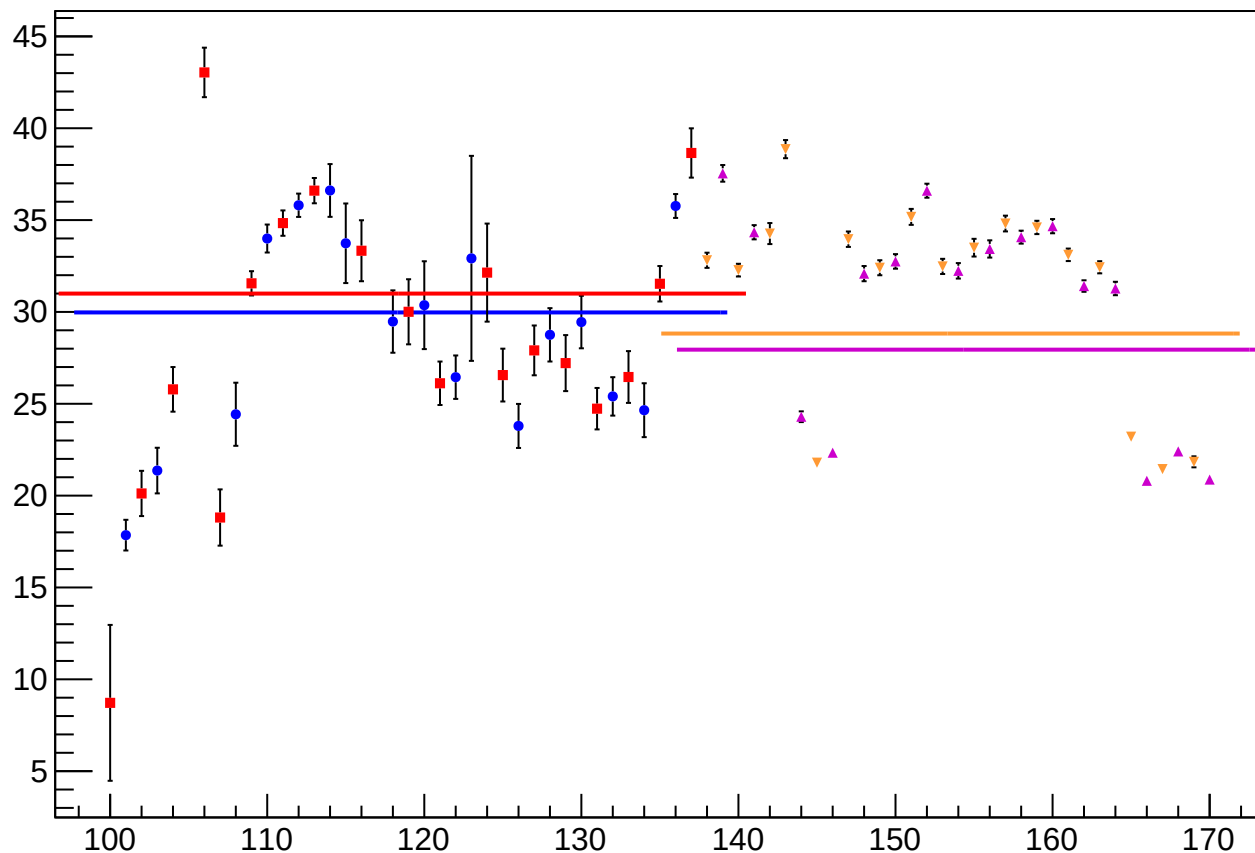
Right: -3.234 ± 0.109 χ^2/NDF : 445.5/35

In: -1.720 ± 0.058 χ^2/NDF : 581.7/32

Out: -1.846 ± 0.058 χ^2/NDF : 706.8/35

All: -1.782 ± 0.041 χ^2/NDF : 1291.0/68

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 29.972 ± 0.267 χ^2/NDF : 554.3/16

Left Out: 28.823 ± 0.086 χ^2/NDF : 4644.7/16

Right Out: 30.999 ± 0.260 χ^2/NDF : 479.5/18

Left In: 27.946 ± 0.084 χ^2/NDF : 5038.8/15

Left: 28.375 ± 0.060 χ^2/NDF : 9736.8/32

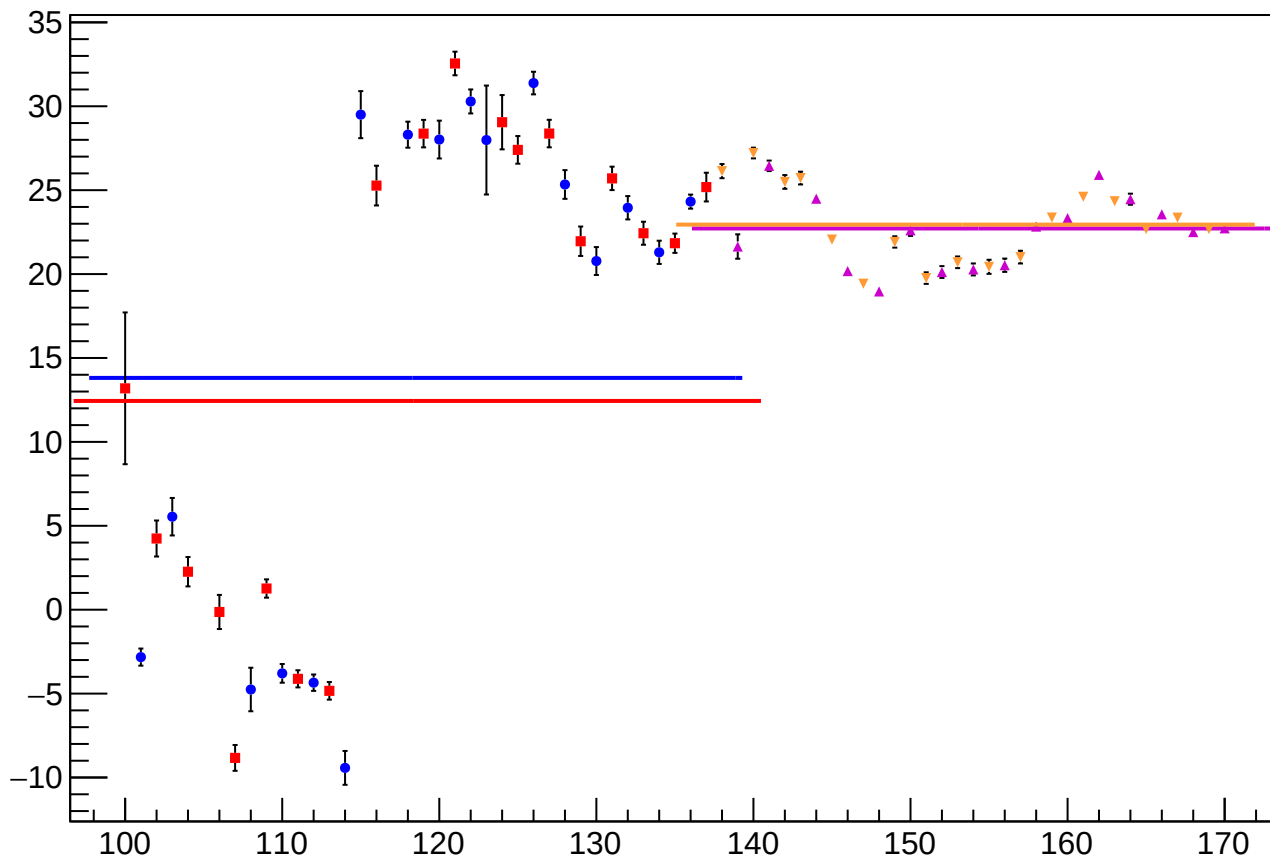
Right: 30.500 ± 0.186 χ^2/NDF : 1041.4/35

In: 28.128 ± 0.080 χ^2/NDF : 5645.4/32

Out: 29.037 ± 0.082 χ^2/NDF : 5187.3/35

All: 28.575 ± 0.057 χ^2/NDF : 10895.9/68

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.813 $\pm$ 0.173 χ^2 /NDF: 7318.6/16

Left Out: 22.948 $\pm$ 0.072 χ^2 /NDF: 757.0/16

Right Out: 12.440 $\pm$ 0.174 χ^2 /NDF: 6970.3/18

Left In: 22.717 $\pm$ 0.072 χ^2 /NDF: 809.8/15

Left: 22.831 $\pm$ 0.051 χ^2 /NDF: 1572.0/32

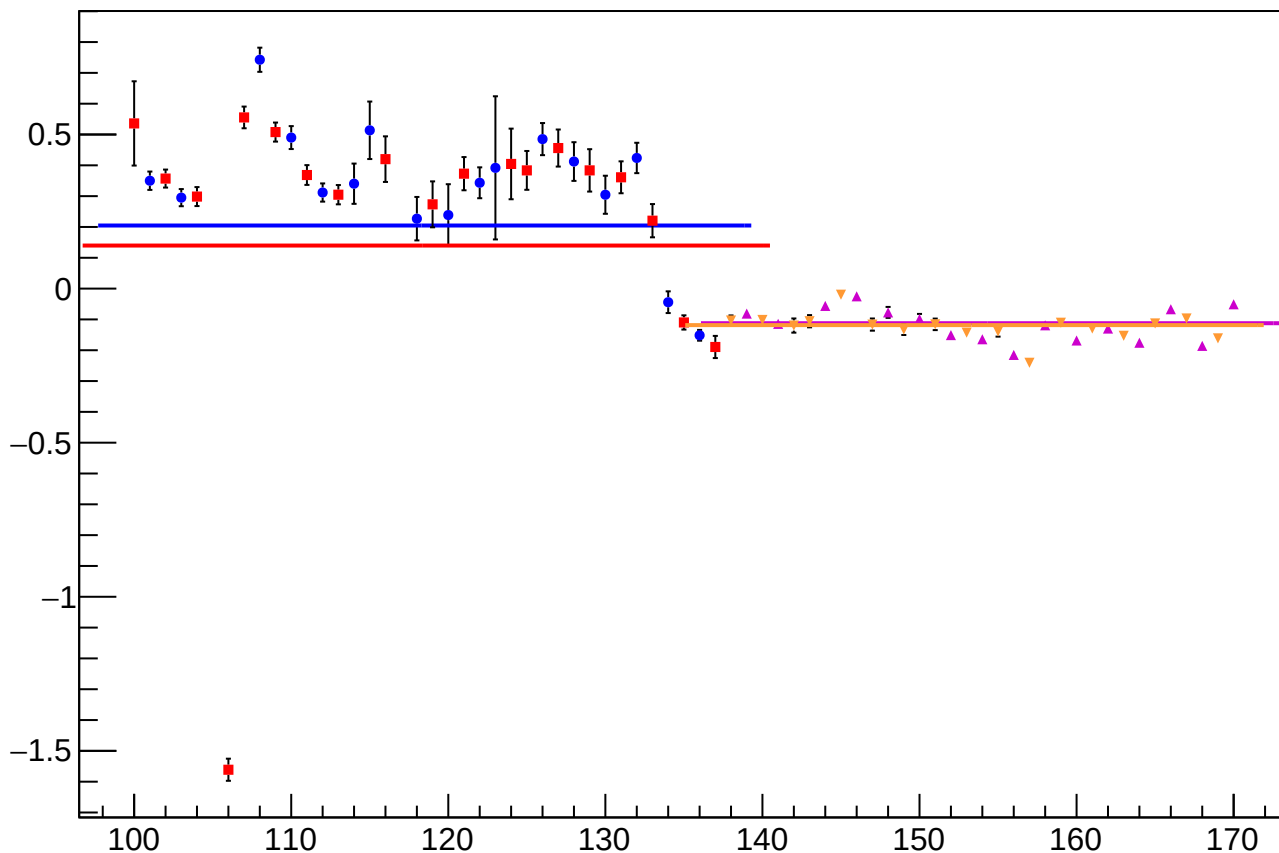
Right: 13.131 $\pm$ 0.122 χ^2 /NDF: 14320.3/35

In: 21.413 $\pm$ 0.066 χ^2 /NDF: 10398.0/32

Out: 21.401 $\pm$ 0.067 χ^2 /NDF: 10847.0/35

All: 21.407 $\pm$ 0.047 χ^2 /NDF: 21245.0/68

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.205 ± 0.009 χ^2/NDF : 845.8/16

Left Out: -0.118 ± 0.003 χ^2/NDF : 200.6/16

Right Out: 0.140 ± 0.009 χ^2/NDF : 3014.2/18

Left In: -0.112 ± 0.003 χ^2/NDF : 284.0/15

Left: -0.115 ± 0.002 χ^2/NDF : 486.3/32

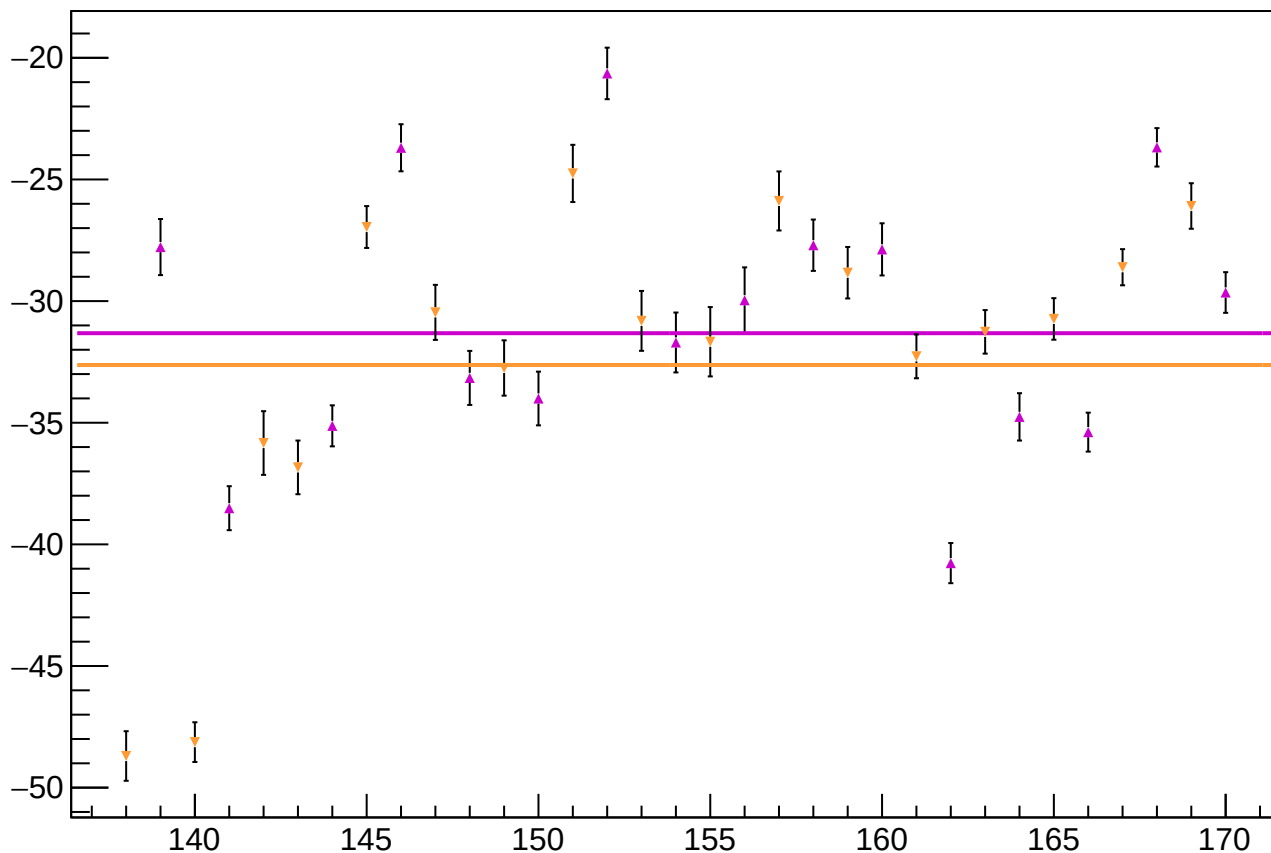
Right: 0.172 ± 0.007 χ^2/NDF : 3884.5/35

In: -0.077 ± 0.003 χ^2/NDF : 2146.5/32

Out: -0.088 ± 0.003 χ^2/NDF : 3908.2/35

All: -0.083 ± 0.002 χ^2/NDF : 6060.9/68

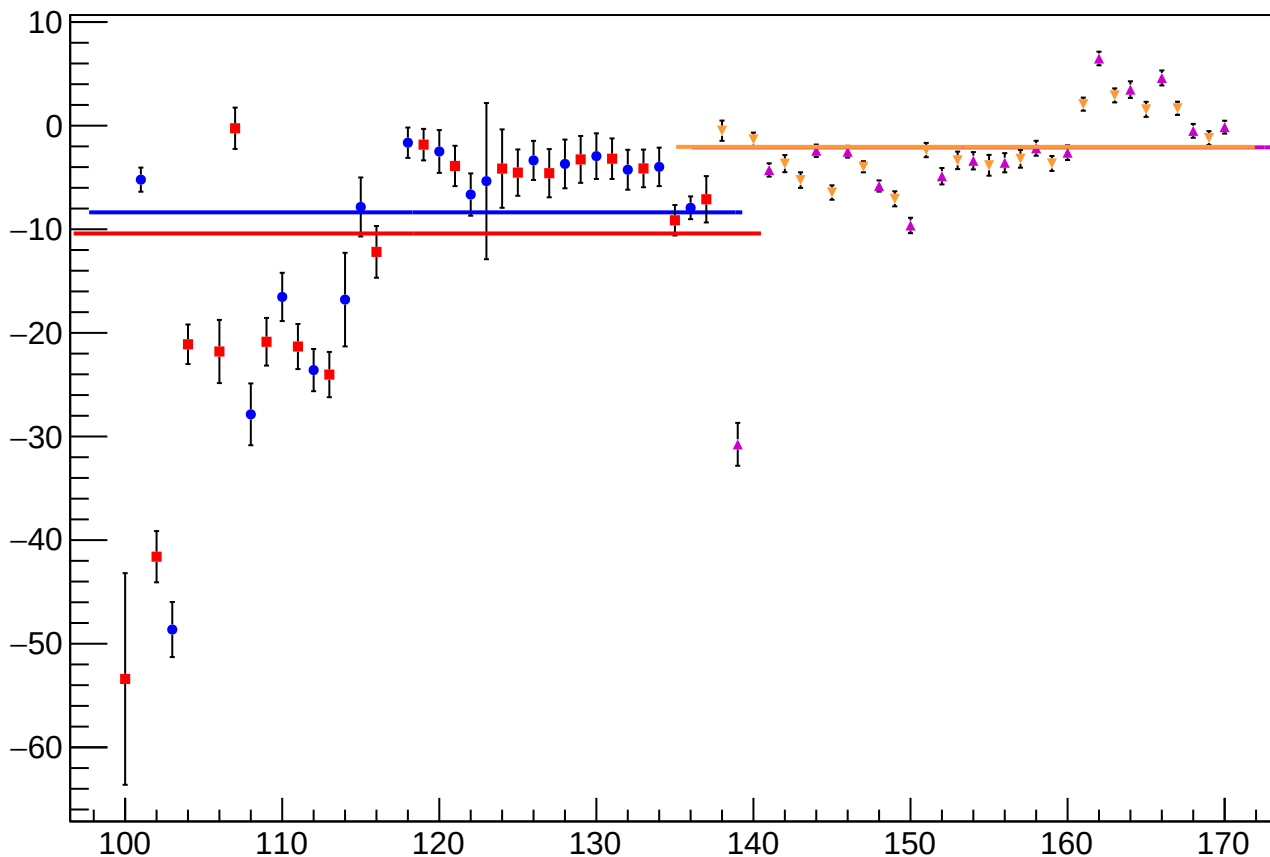
reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left Out: -32.627 $\pm$ 0.242 χ^2/NDF :853.3/16
 Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left In: -31.319 $\pm$ 0.242 χ^2/NDF :555.7/15

Left: -31.972 $\pm$ 0.171 χ^2/NDF : 1423.6/32
 Right: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 In: -31.319 $\pm$ 0.242 χ^2/NDF :555.7/15
 Out: -32.627 $\pm$ 0.242 χ^2/NDF :853.3/16
 All: -31.972 $\pm$ 0.171 χ^2/NDF : 1423.6/32

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.367 ± 0.466 $\chi^2/\text{NDF}: 408.8/16$

Left Out: -2.045 ± 0.174 $\chi^2/\text{NDF}: 294.9/16$

Right Out: -10.405 ± 0.491 $\chi^2/\text{NDF}: 430.3/18$

Left In: -2.093 ± 0.176 $\chi^2/\text{NDF}: 691.6/15$

Left: -2.069 ± 0.124 $\chi^2/\text{NDF}: 986.5/32$

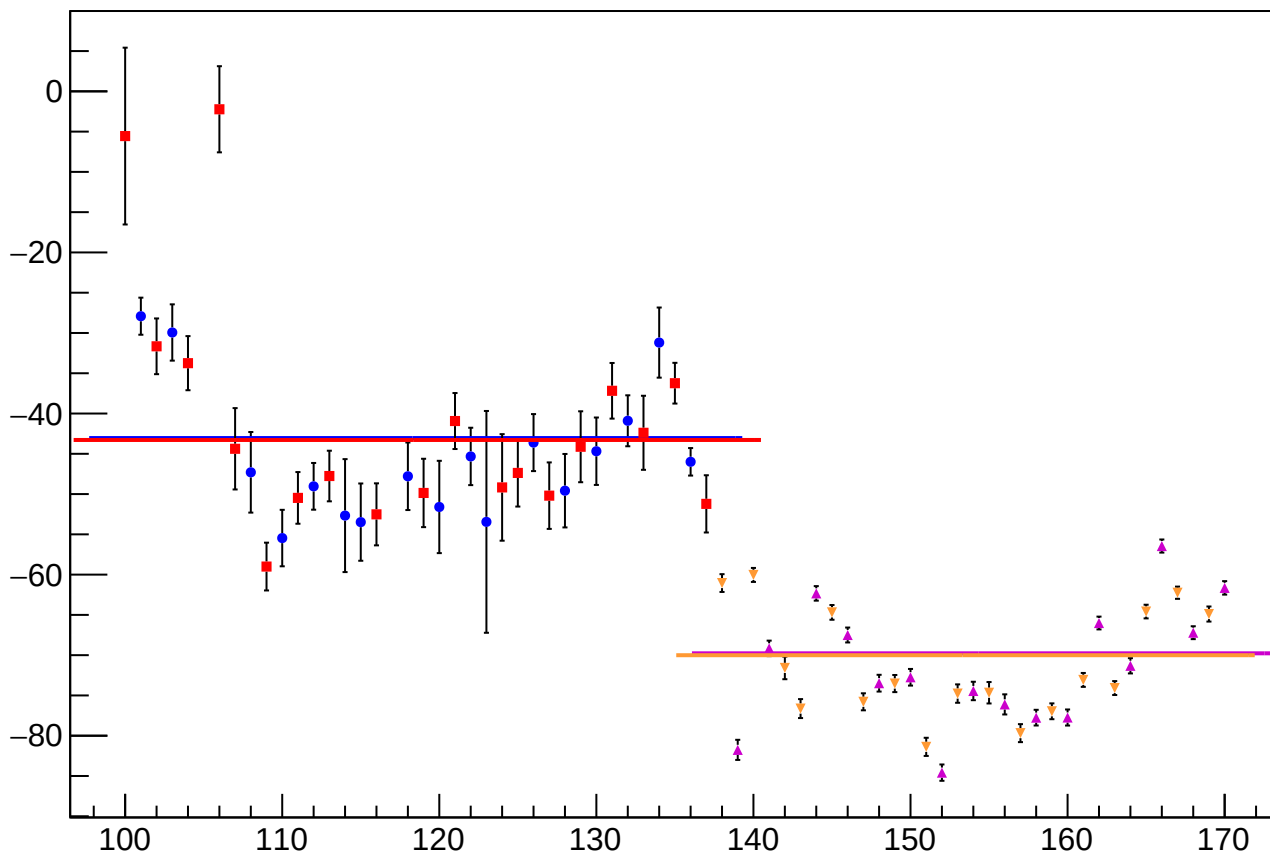
Right: -9.333 ± 0.338 $\chi^2/\text{NDF}: 848.2/35$

In: -2.873 ± 0.164 $\chi^2/\text{NDF}: 1259.1/32$

Out: -2.978 ± 0.164 $\chi^2/\text{NDF}: 982.7/35$

All: -2.926 ± 0.116 $\chi^2/\text{NDF}: 2242.0/68$

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

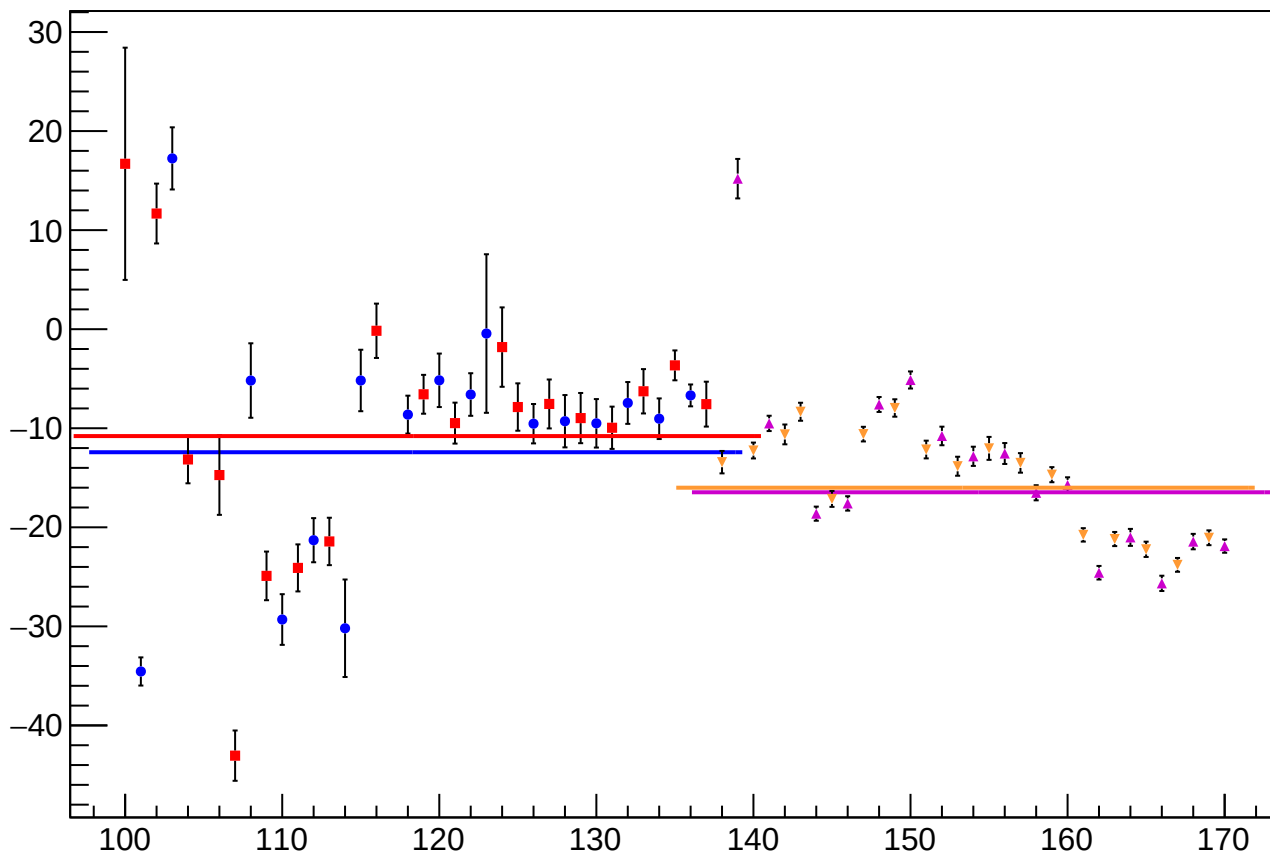


Right In: -43.047 ± 0.837 $\chi^2/\text{NDF}: 99.0/16$
 Left Out: -70.006 ± 0.241 $\chi^2/\text{NDF}: 771.5/16$
 Right Out: -43.282 ± 0.867 $\chi^2/\text{NDF}: 154.4/18$
 Left In: -69.770 ± 0.238 $\chi^2/\text{NDF}: 971.9/15$

Left: -69.887 ± 0.169 $\chi^2/\text{NDF}: 1743.9/32$
 Right: -43.161 ± 0.602 $\chi^2/\text{NDF}: 253.4/35$
 In: -67.767 ± 0.229 $\chi^2/\text{NDF}: 2013.2/32$
 Out: -68.094 ± 0.232 $\chi^2/\text{NDF}: 1807.6/35$

All: -67.929 ± 0.163 $\chi^2/\text{NDF}: 3821.8/68$

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -12.421 ± 0.523 χ^2/NDF : 474.4/16

Left Out: -16.001 ± 0.201 χ^2/NDF : 648.6/16

Right Out: -10.791 ± 0.554 χ^2/NDF : 365.8/18

Left In: -16.464 ± 0.203 χ^2/NDF : 1135.6/15

Left: -16.231 ± 0.143 χ^2/NDF : 1786.9/32

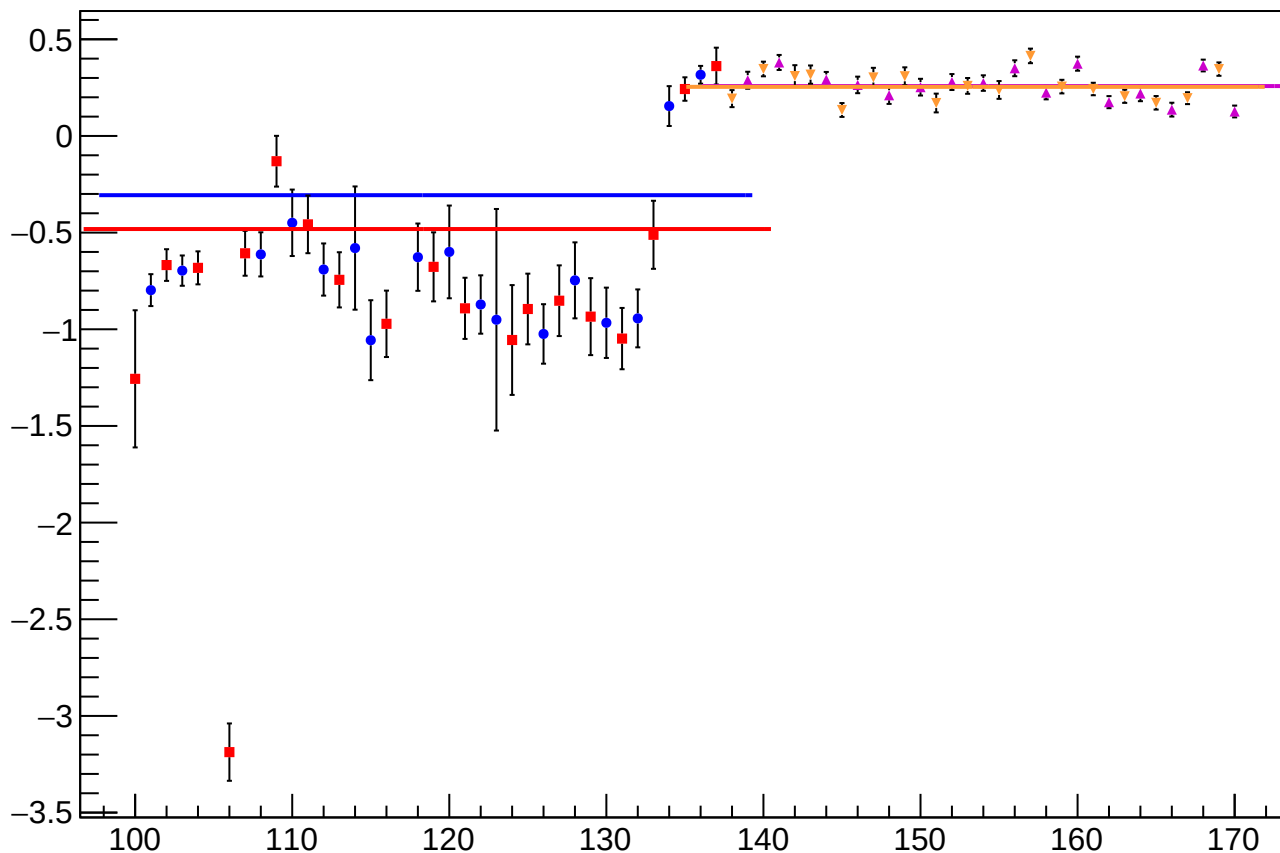
Right: -11.652 ± 0.380 χ^2/NDF : 844.7/35

In: -15.936 ± 0.189 χ^2/NDF : 1661.9/32

Out: -15.394 ± 0.189 χ^2/NDF : 1092.6/35

All: -15.665 ± 0.134 χ^2/NDF : 2758.7/68

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.306 ± 0.028 χ^2/NDF : 371.7/16

Left Out: 0.254 ± 0.009 χ^2/NDF : 63.6/16

Right Out: -0.481 ± 0.029 χ^2/NDF : 628.3/18

Left In: 0.258 ± 0.009 χ^2/NDF : 79.0/15

Left: 0.256 ± 0.007 χ^2/NDF : 142.7/32

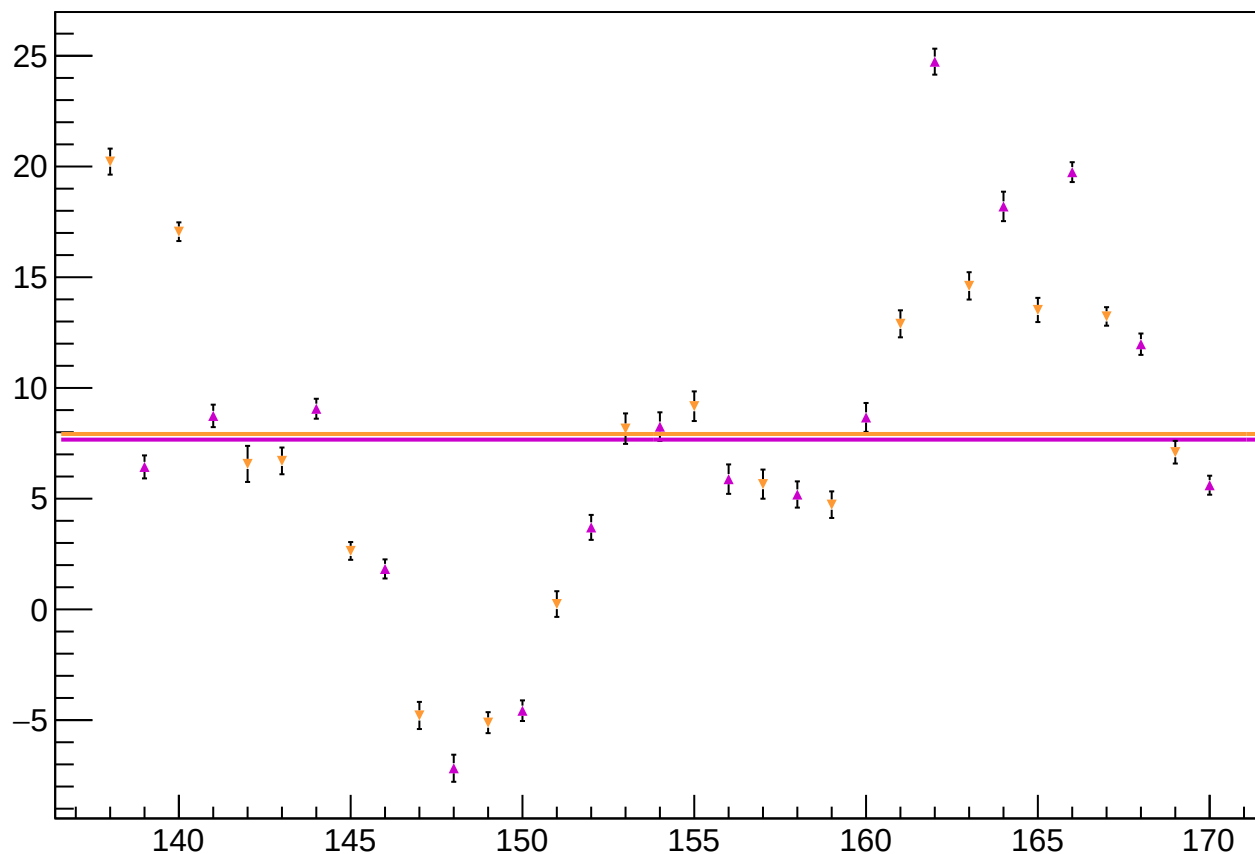
Right: -0.391 ± 0.020 χ^2/NDF : 1019.4/35

In: 0.199 ± 0.009 χ^2/NDF : 826.3/32

Out: 0.181 ± 0.009 χ^2/NDF : 1287.9/35

All: 0.190 ± 0.006 χ^2/NDF : 2116.3/68

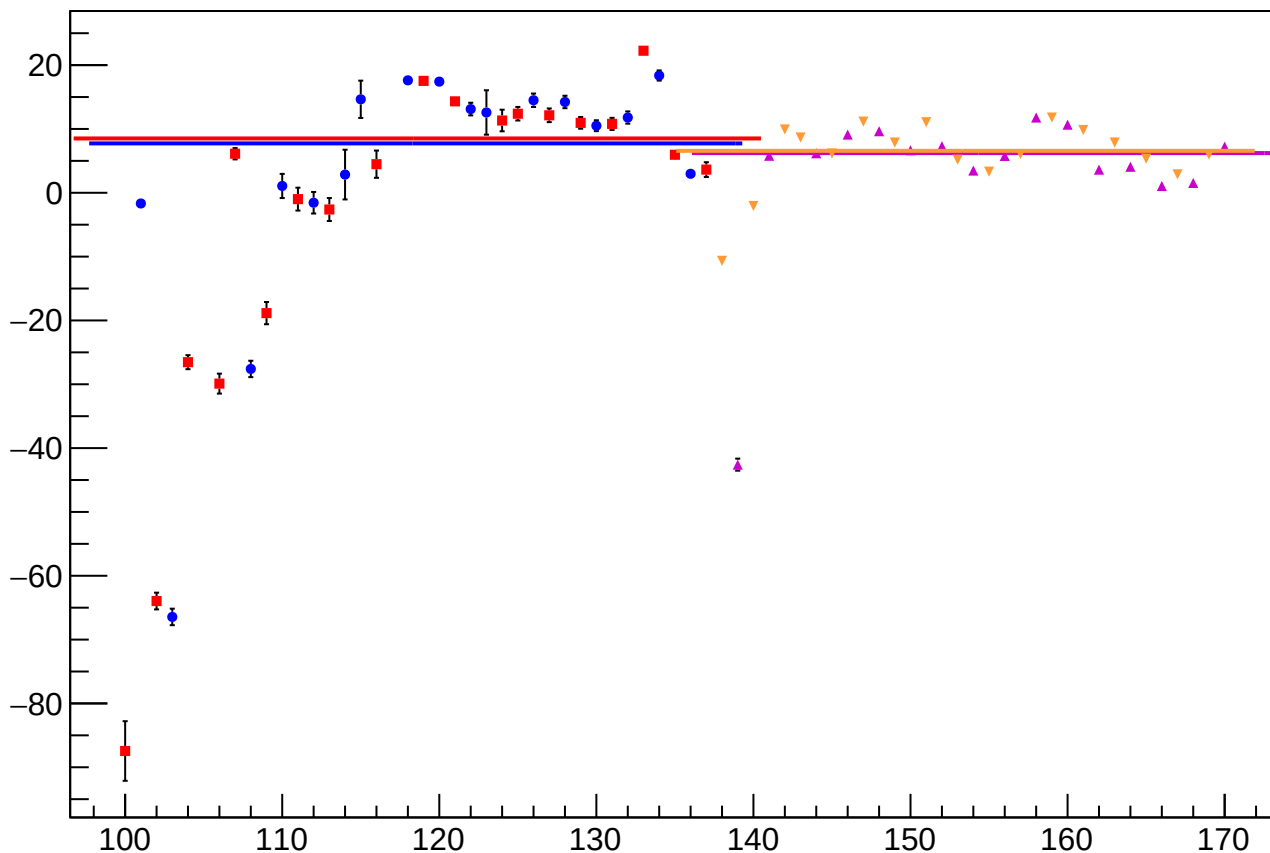
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 7.922+/-0.133 χ^2/NDF :2946.0/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 7.666+/-0.131 χ^2/NDF :3483.5/15

Left: 7.792+/-0.093 χ^2/NDF : 6431.4/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 7.666+/-0.131 χ^2/NDF :3483.5/15
 Out: 7.922+/-0.133 χ^2/NDF :2946.0/16
 All: 7.792+/-0.093 χ^2/NDF : 6431.4/32

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.737 ± 0.218 χ^2/NDF : 5300.6/16

Left Out: 6.572 ± 0.096 χ^2/NDF : 2341.4/16

Right Out: 8.514 ± 0.213 χ^2/NDF : 6719.4/18

Left In: 6.222 ± 0.096 χ^2/NDF : 3597.1/15

Left: 6.398 ± 0.068 χ^2/NDF : 5945.2/32

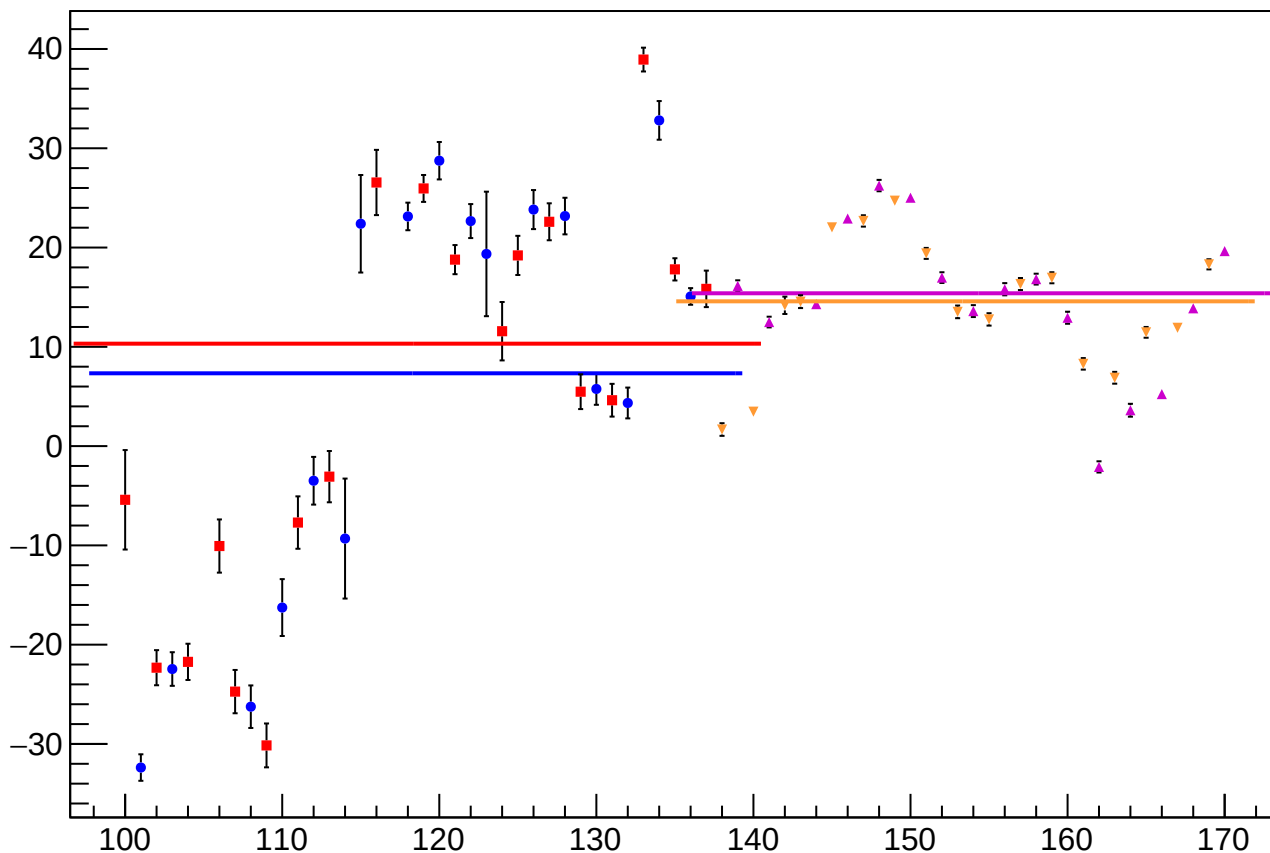
Right: 8.134 ± 0.152 χ^2/NDF : 12026.5/35

In: 6.467 ± 0.088 χ^2/NDF : 8938.2/32

Out: 6.897 ± 0.087 χ^2/NDF : 9129.9/35

All: 6.683 ± 0.062 χ^2/NDF : 18080.1/68

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 7.333 $\pm$ 0.419 χ^2/NDF : 2293.1/16

Left Out: 14.583 $\pm$ 0.132 χ^2/NDF :2576.7/16

Right Out: 10.317 $\pm$ 0.417 χ^2/NDF : 2281.5/18

Left In: 15.394 $\pm$ 0.129 χ^2/NDF :3142.3/15

Left: 14.997 $\pm$ 0.092 χ^2/NDF : 5738.3/32

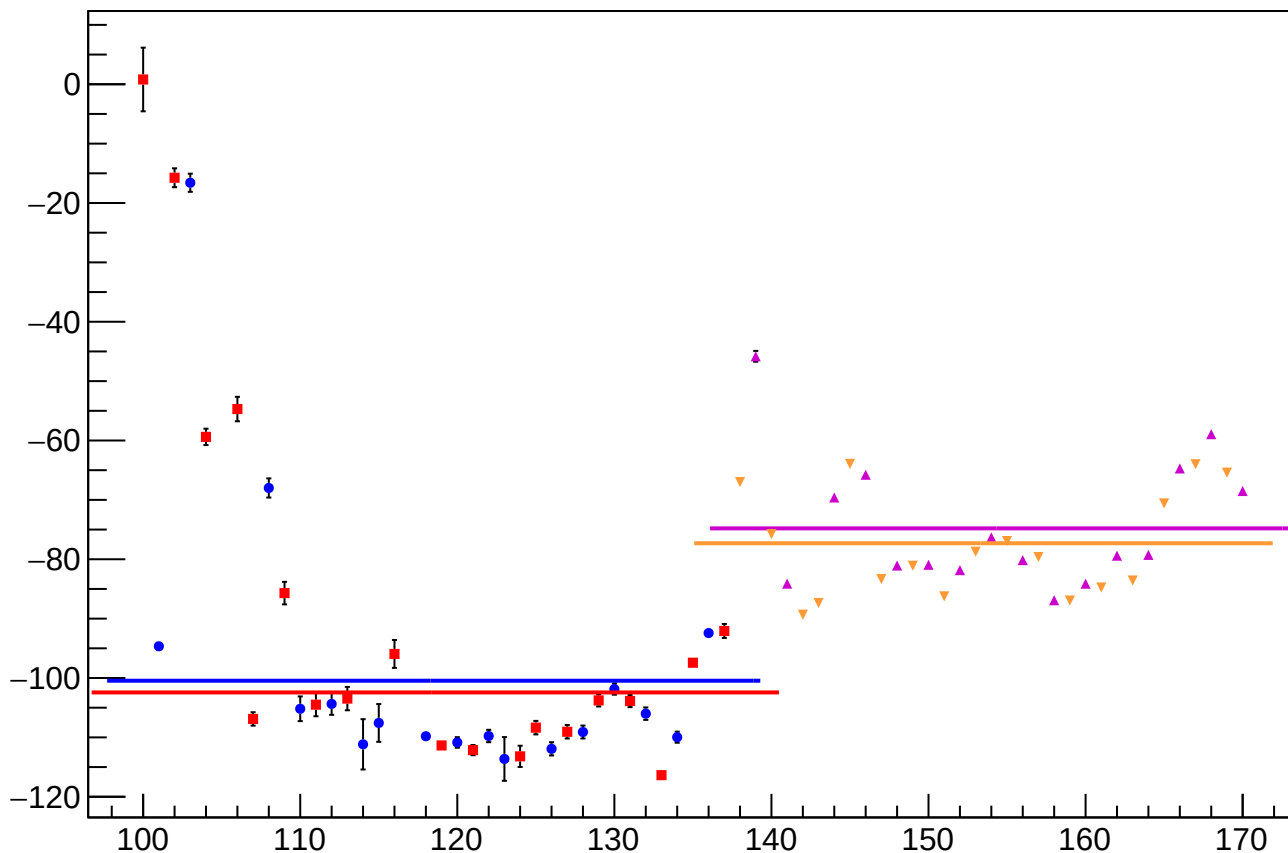
Right: 8.831 $\pm$ 0.295 χ^2/NDF : 4600.2/35

In: 14.692 $\pm$ 0.124 χ^2/NDF :5774.0/32

Out: 14.195 $\pm$ 0.126 χ^2/NDF :4953.4/35

All: 14.448 $\pm$ 0.088 χ^2/NDF : 10735.4/68

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -100.457+/-0.251 χ^2/NDF : 4461.1/16

Left Out: -77.305+/-0.111 χ^2/NDF : 6124.6/16

Right Out: -102.431+/-0.246 χ^2/NDF : 6094.3/18

Left In: -74.801+/-0.111 χ^2/NDF : 6482.1/15

Left: -76.050+/-0.078 χ^2/NDF : 12861.6/32

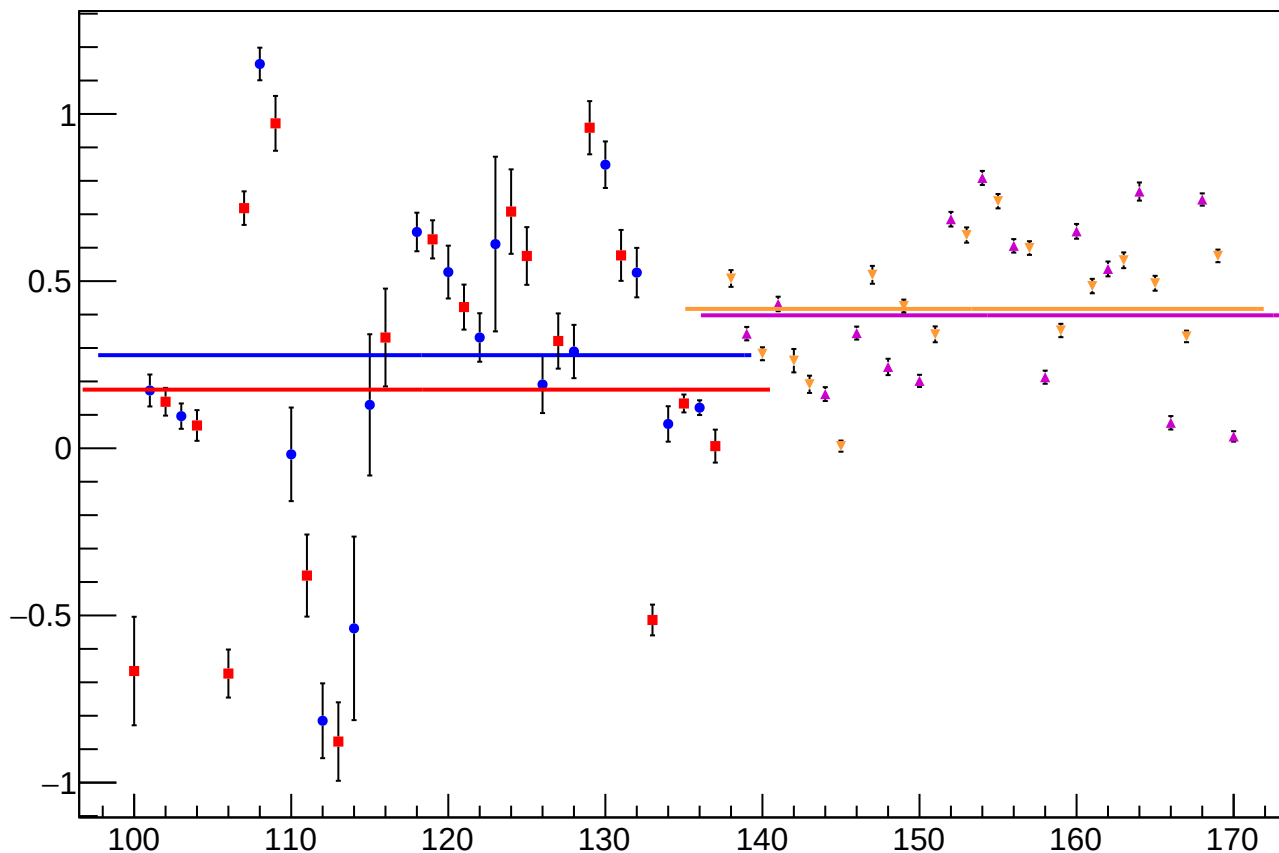
Right: -101.462+/-0.176 χ^2/NDF : 10586.9/35

In: -78.989+/-0.101 χ^2/NDF : 19703.5/32

Out: -81.550+/-0.101 χ^2/NDF : 20870.4/35

All: -80.271+/-0.072 χ^2/NDF : 40893.6/68

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.279 $\pm$ 0.014 χ^2/NDF : 653.9/16

Left Out: 0.417 $\pm$ 0.005 χ^2/NDF :1348.2/16

Right Out: 0.175 $\pm$ 0.013 χ^2/NDF : 967.7/18

Left In: 0.398 $\pm$ 0.005 χ^2/NDF :2549.7/15

Left: 0.407 $\pm$ 0.004 χ^2/NDF : 3905.0/32

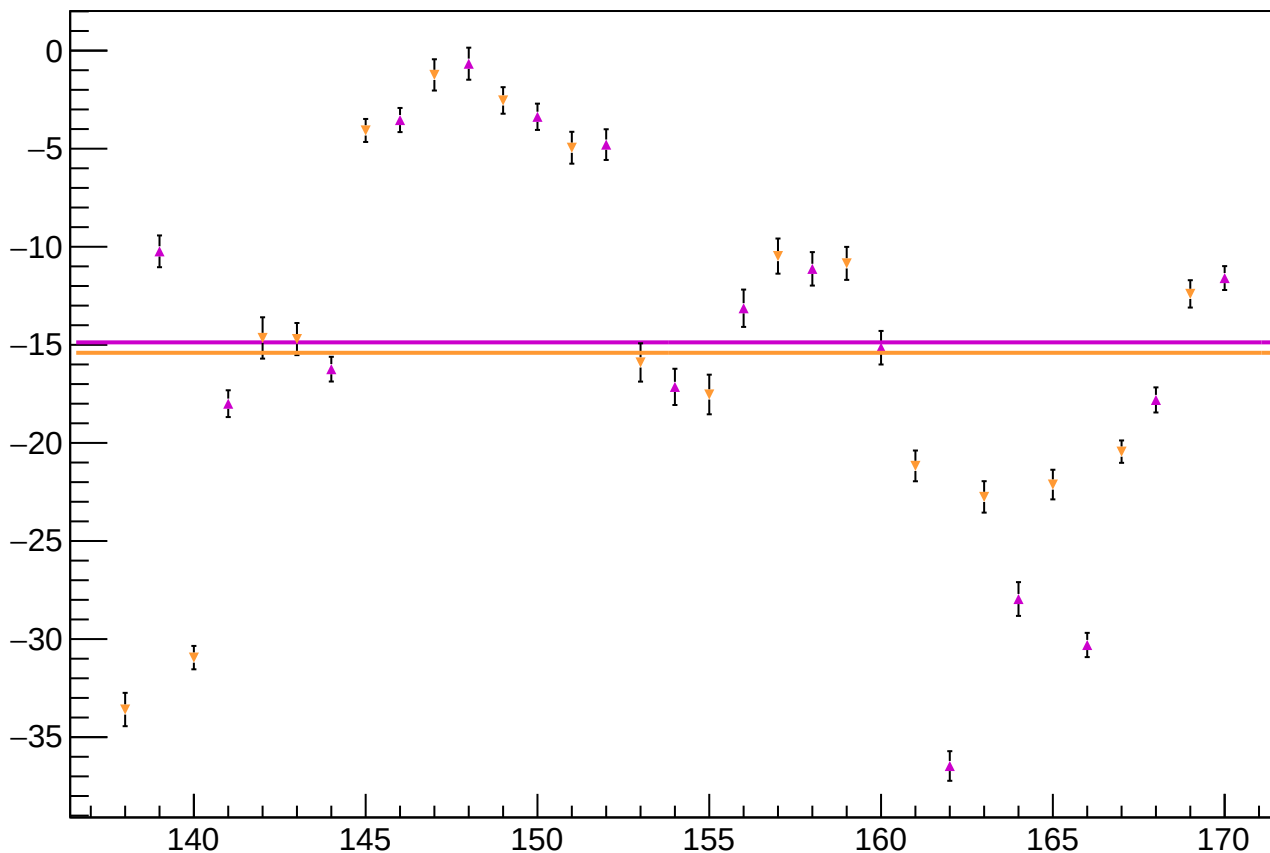
Right: 0.227 $\pm$ 0.010 χ^2/NDF : 1650.8/35

In: 0.383 $\pm$ 0.005 χ^2/NDF :3271.7/32

Out: 0.386 $\pm$ 0.005 χ^2/NDF :2595.5/35

All: 0.384 $\pm$ 0.003 χ^2/NDF : 5867.4/68

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



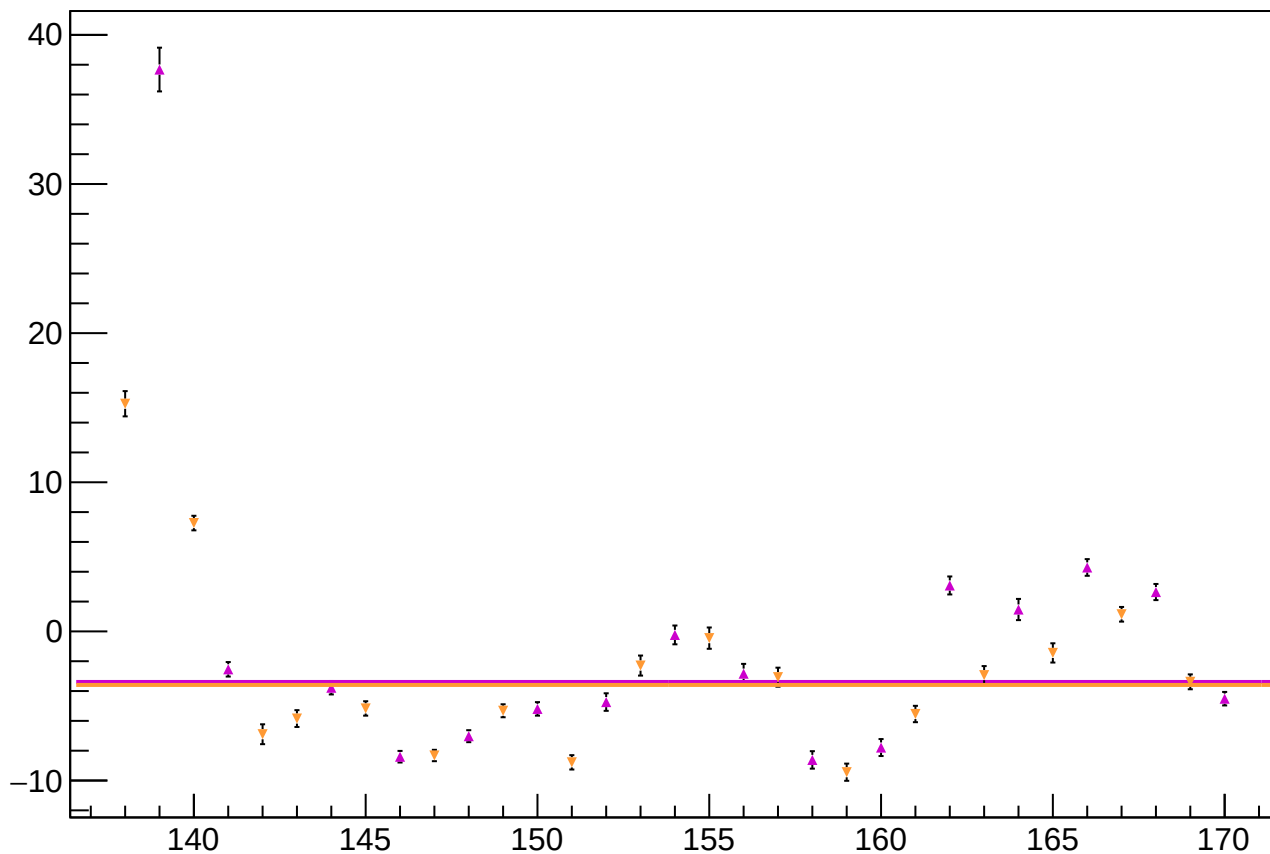
Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -15.405 ± 0.184 $\chi^2/\text{NDF}: 2733.4/16$
 Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -14.874 ± 0.182 $\chi^2/\text{NDF}: 2912.3/15$

Left: -15.137 ± 0.130 $\chi^2/\text{NDF}: 5649.9/32$
 Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

In: -14.874 ± 0.182 $\chi^2/\text{NDF}: 2912.3/15$
 Out: -15.405 ± 0.184 $\chi^2/\text{NDF}: 2733.4/16$

All: -15.137 ± 0.130 $\chi^2/\text{NDF}: 5649.9/32$

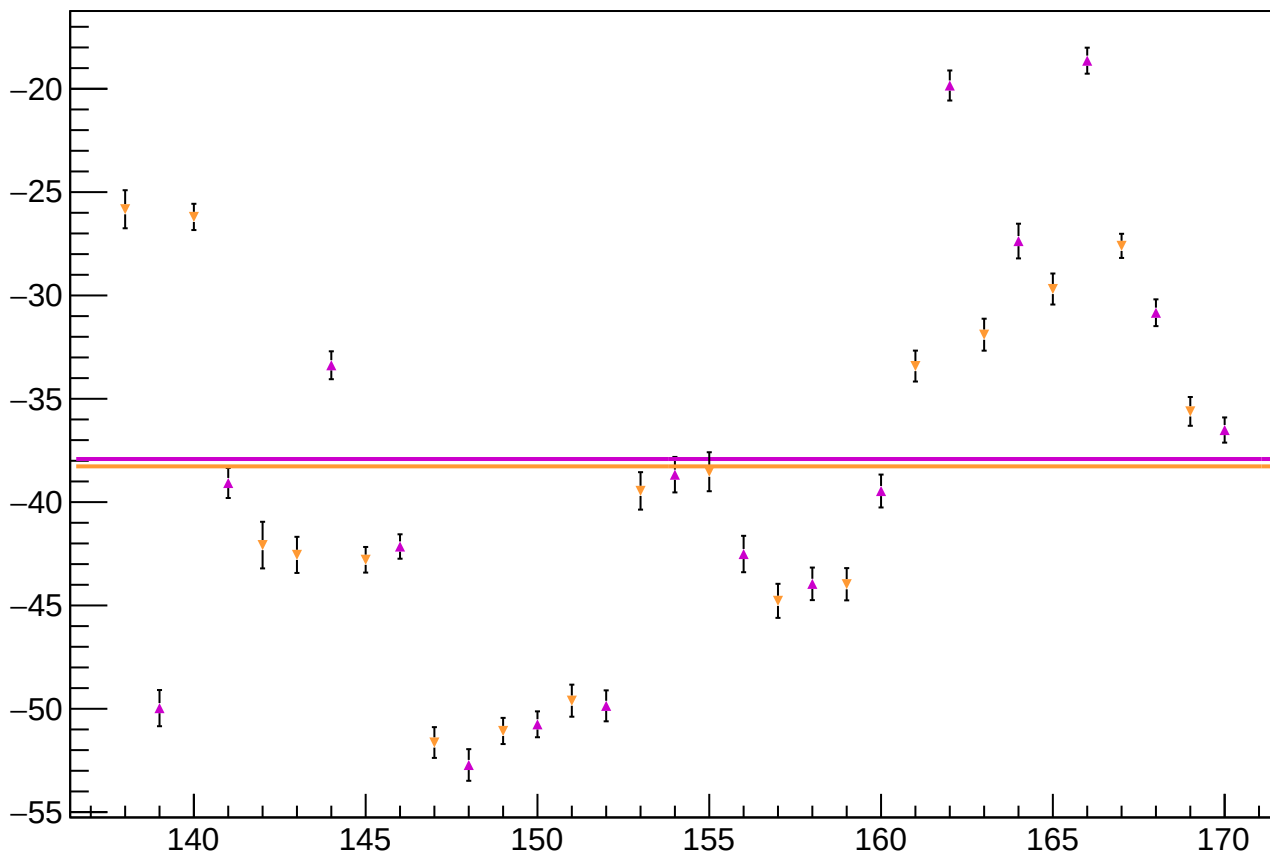
reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -3.590+/-0.131 χ^2/NDF :1570.6/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -3.391+/-0.132 χ^2/NDF :1702.5/15

Left: -3.491+/-0.093 χ^2/NDF : 3274.2/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -3.391+/-0.132 χ^2/NDF :1702.5/15
 Out: -3.590+/-0.131 χ^2/NDF :1570.6/16
 All: -3.491+/-0.093 χ^2/NDF : 3274.2/32

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -38.270+/-0.183 χ^2/NDF :2283.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -37.914+/-0.180 χ^2/NDF :3265.3/15

Left: -38.089+/-0.128 χ^2/NDF : 5551.1/32

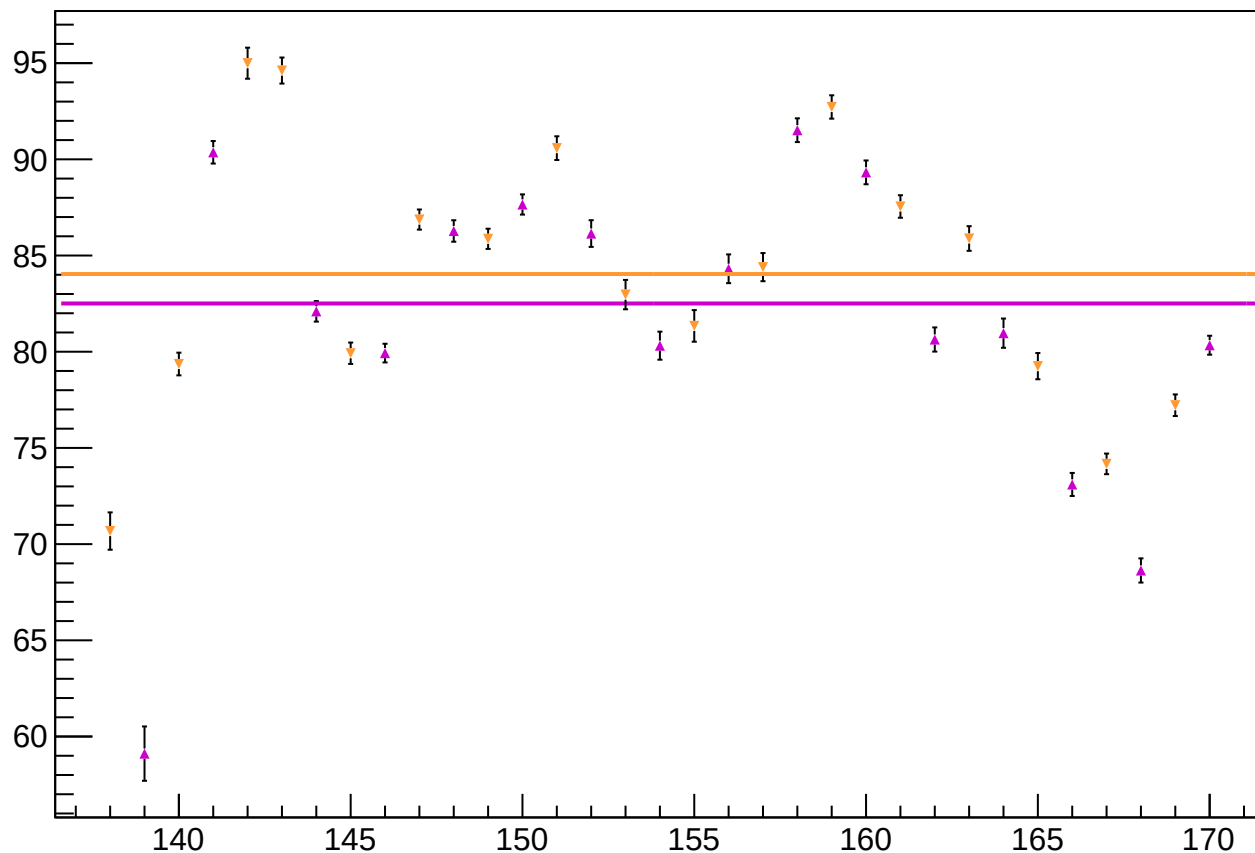
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -37.914+/-0.180 χ^2/NDF :3265.3/15

Out: -38.270+/-0.183 χ^2/NDF :2283.9/16

All: -38.089+/-0.128 χ^2/NDF : 5551.1/32

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 84.039+/-0.153 χ^2/NDF :1687.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 82.508+/-0.153 χ^2/NDF :1767.3/15

Left: 83.273+/-0.108 χ^2/NDF : 3504.6/32

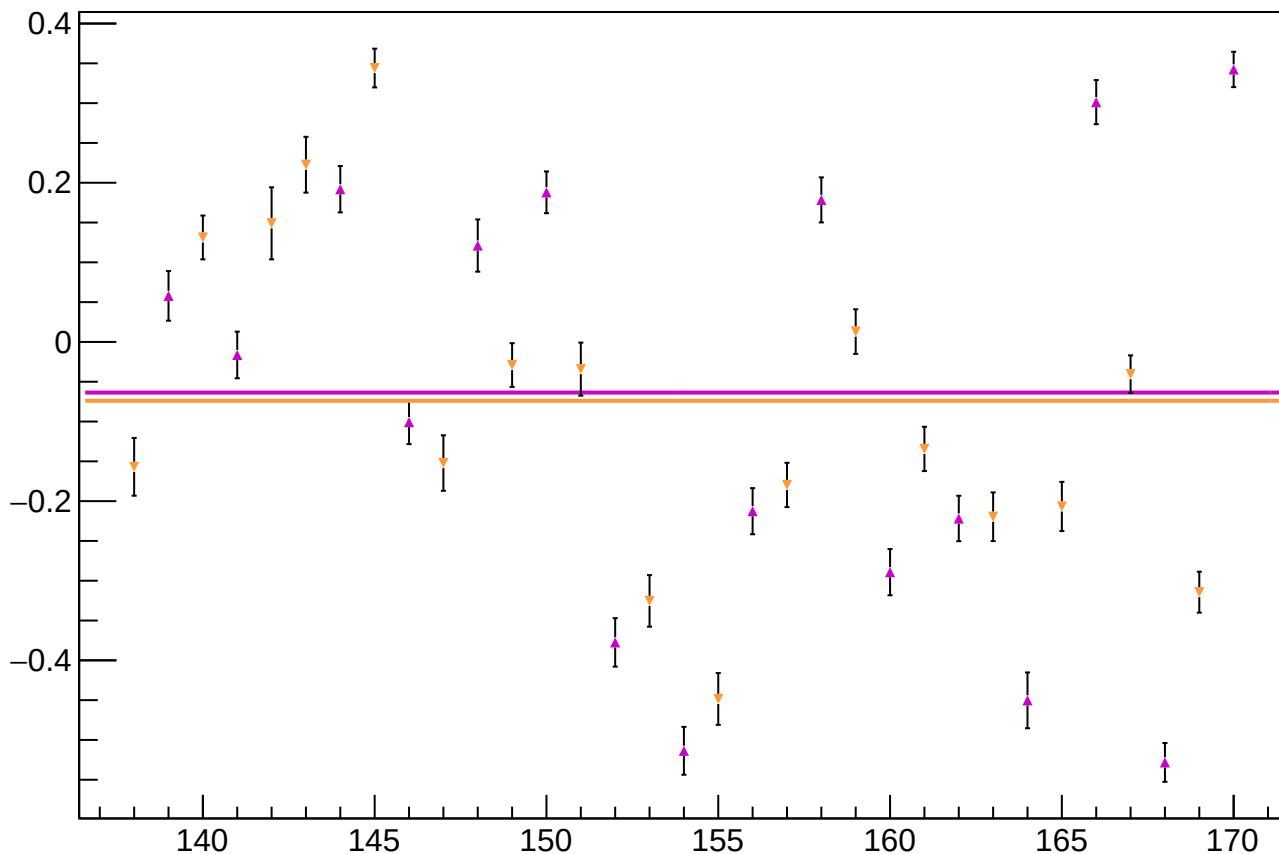
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 82.508+/-0.153 χ^2/NDF :1767.3/15

Out: 84.039+/-0.153 χ^2/NDF :1687.2/16

All: 83.273+/-0.108 χ^2/NDF : 3504.6/32

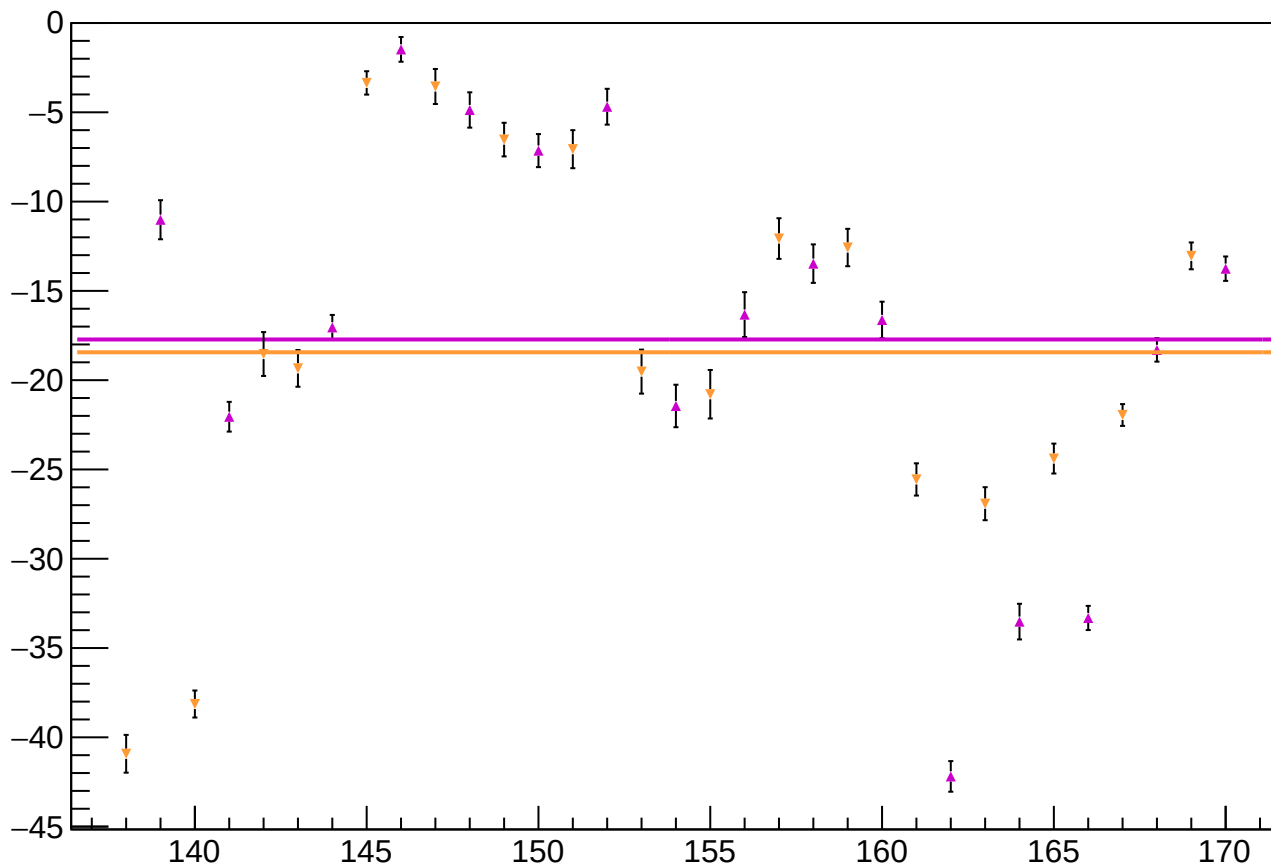
reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -0.074+/-0.007 χ^2/NDF :812.6/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -0.064+/-0.007 χ^2/NDF :1733.1/15

Left: -0.069+/-0.005 χ^2/NDF : 2546.7/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -0.064+/-0.007 χ^2/NDF :1733.1/15
 Out: -0.074+/-0.007 χ^2/NDF :812.6/16
 All: -0.069+/-0.005 χ^2/NDF : 2546.7/32

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

Left Out: -18.438 ± 0.219 $\chi^2/\text{NDF}: 2511.5/16$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

Left In: -17.721 ± 0.214 $\chi^2/\text{NDF}: 2741.9/15$

Left: -18.071 ± 0.153 $\chi^2/\text{NDF}: 5258.9/32$

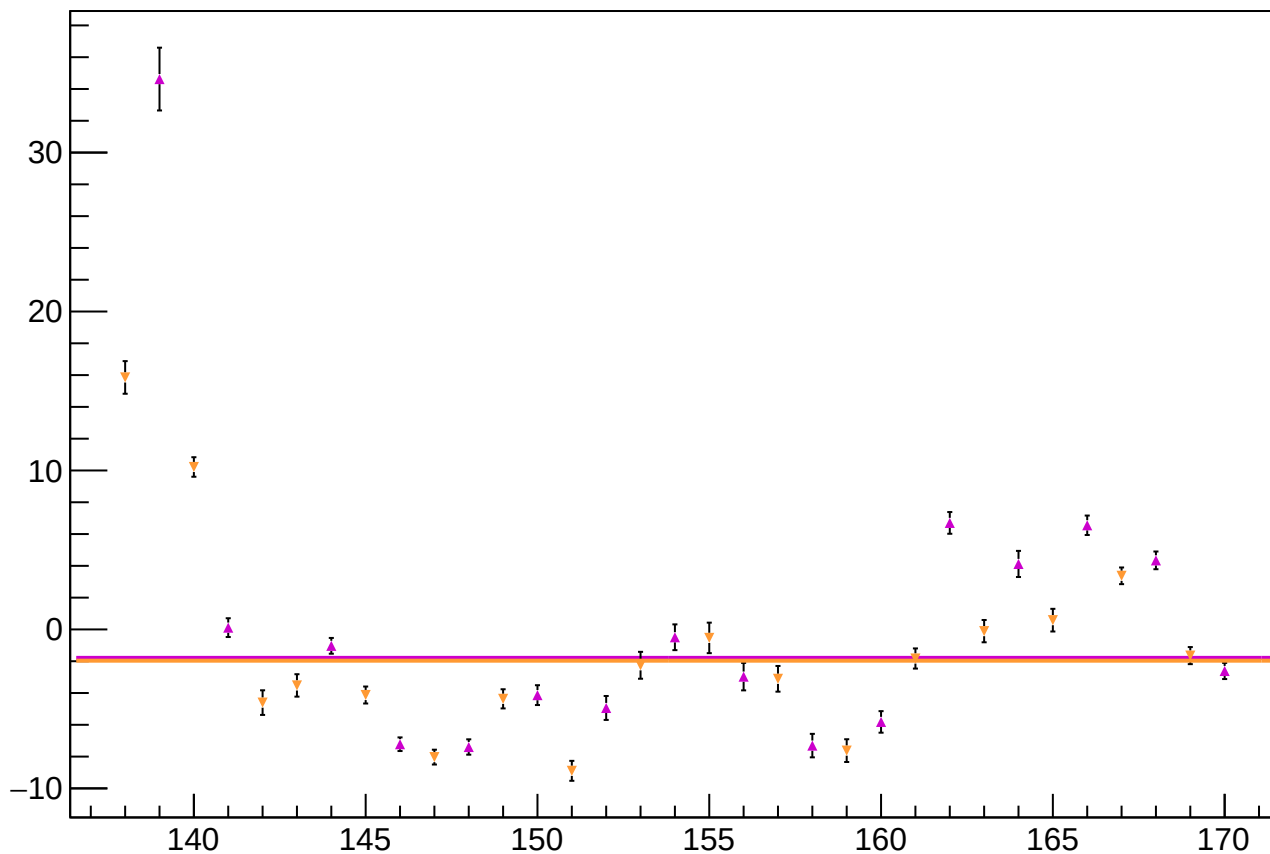
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

In: -17.721 ± 0.214 $\chi^2/\text{NDF}: 2741.9/15$

Out: -18.438 ± 0.219 $\chi^2/\text{NDF}: 2511.5/16$

All: -18.071 ± 0.153 $\chi^2/\text{NDF}: 5258.9/32$

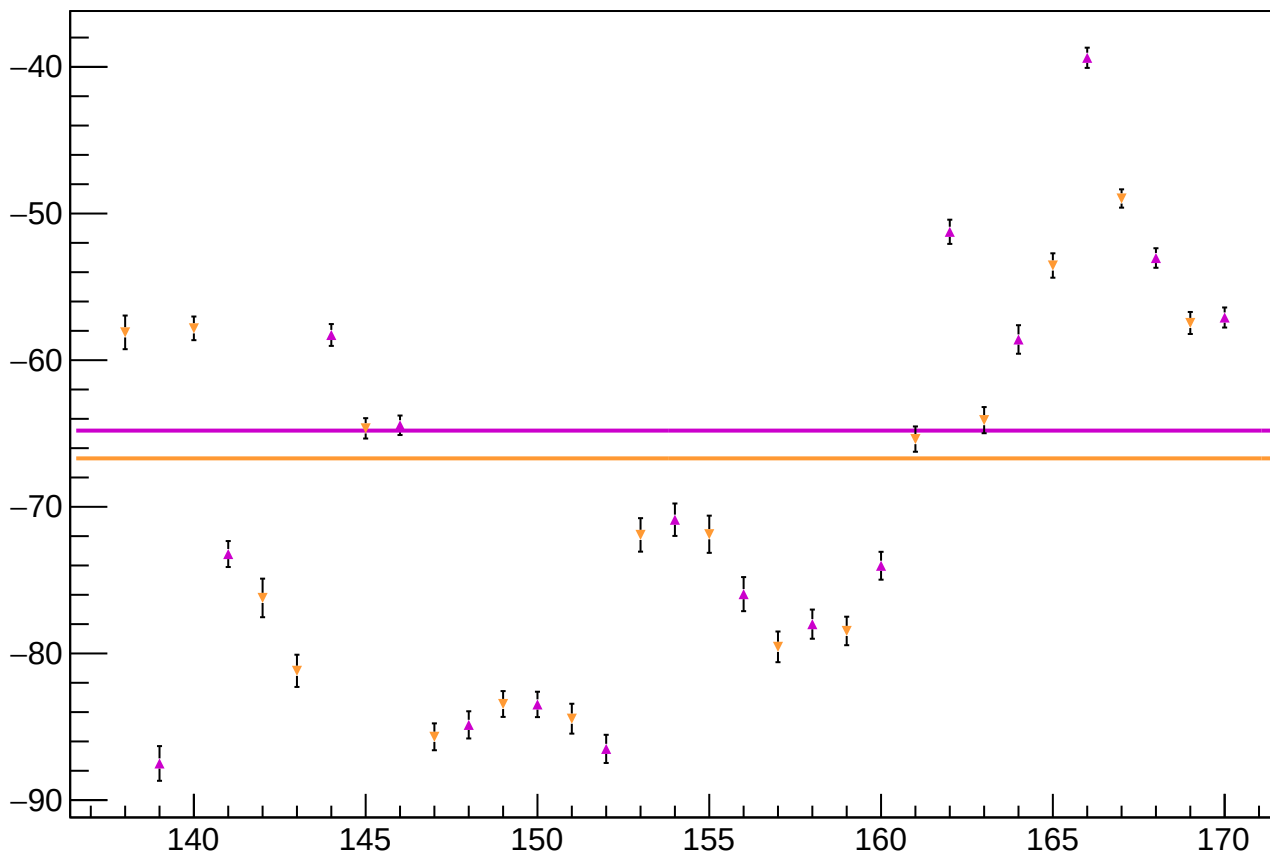
reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -1.966+/-0.158 χ^2/NDF :1224.6/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -1.789+/-0.155 χ^2/NDF :1290.8/15

Left: -1.876+/-0.111 χ^2/NDF : 2516.1/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -1.789+/-0.155 χ^2/NDF :1290.8/15
 Out: -1.966+/-0.158 χ^2/NDF :1224.6/16
 All: -1.876+/-0.111 χ^2/NDF : 2516.1/32

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -66.697+/-0.218 χ^2/NDF : 3057.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -64.802+/-0.212 χ^2/NDF : 4479.6/15

Left: -65.720+/-0.152 χ^2/NDF : 7575.7/32

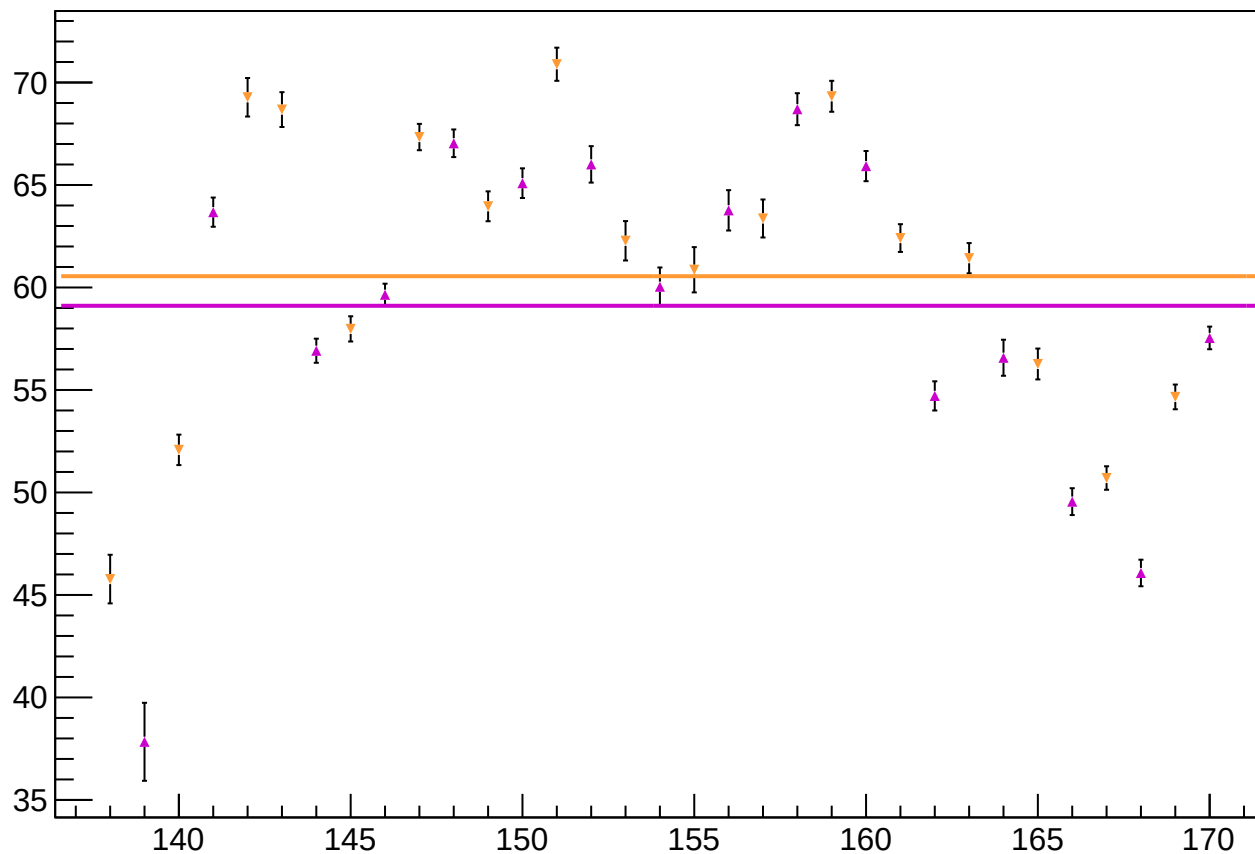
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -64.802+/-0.212 χ^2/NDF : 4479.6/15

Out: -66.697+/-0.218 χ^2/NDF : 3057.4/16

All: -65.720+/-0.152 χ^2/NDF : 7575.7/32

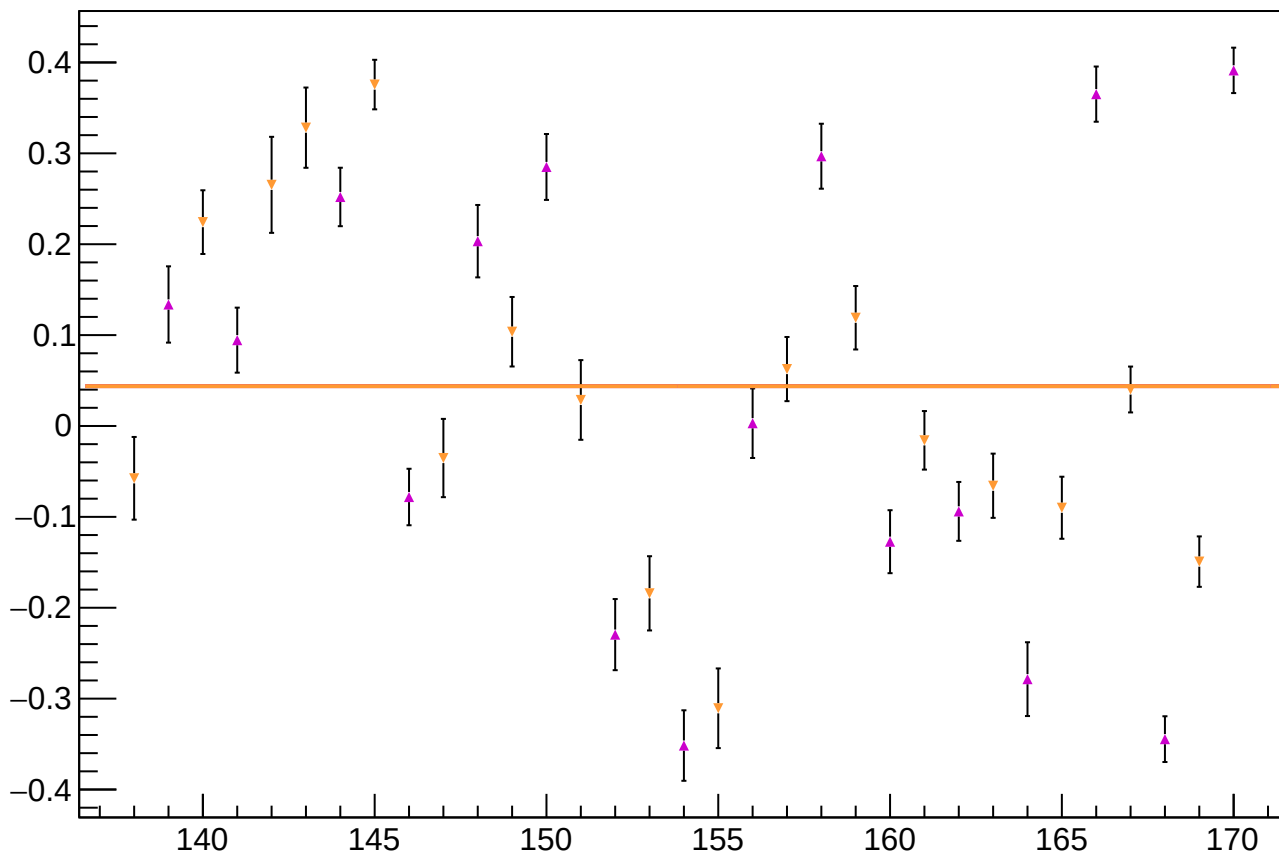
reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 60.550 $\pm$ 0.183 χ^2 /NDF:1357.4/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 59.108 $\pm$ 0.180 χ^2 /NDF:1380.2/15

Left: 59.818 $\pm$ 0.128 χ^2 /NDF: 2769.2/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 59.108 $\pm$ 0.180 χ^2 /NDF:1380.2/15
 Out: 60.550 $\pm$ 0.183 χ^2 /NDF:1357.4/16
 All: 59.818 $\pm$ 0.128 χ^2 /NDF: 2769.2/32

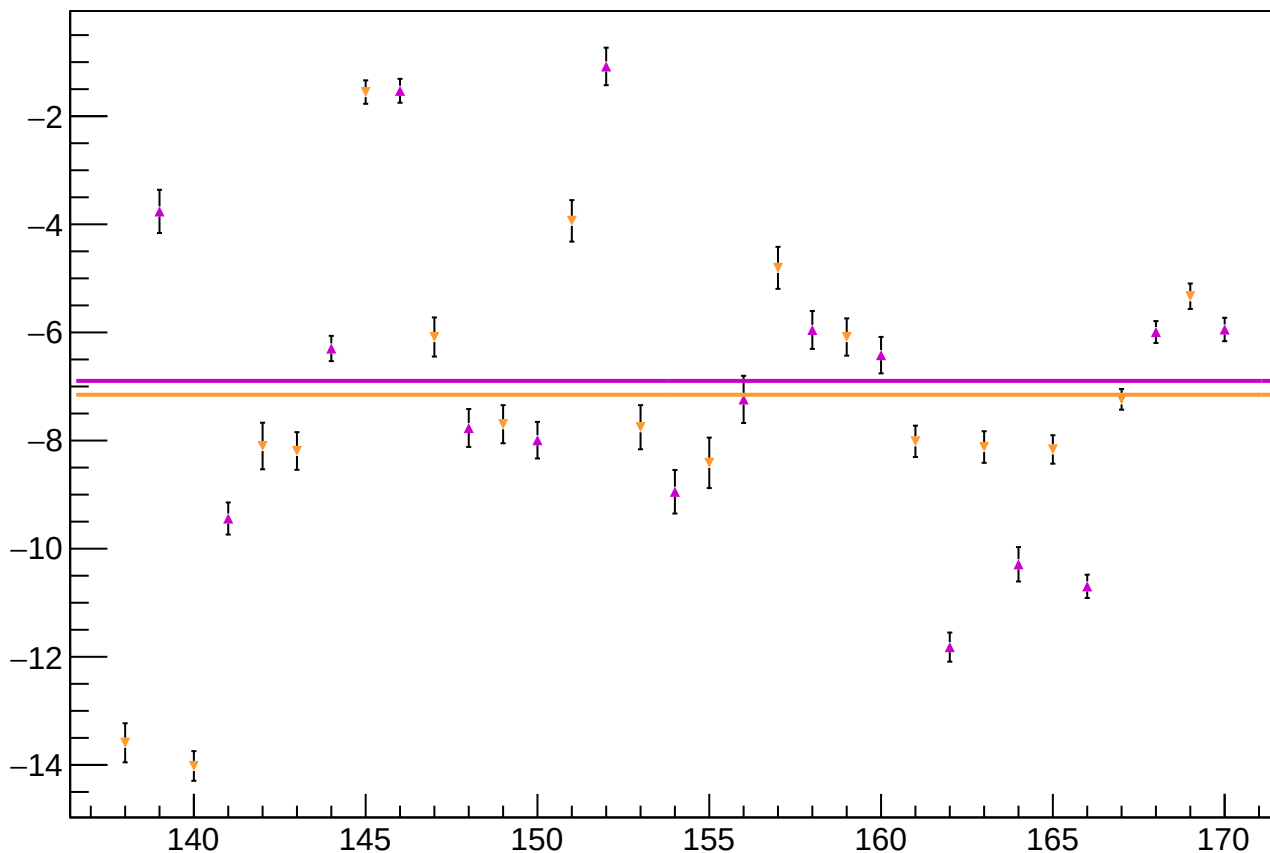
reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 0.044 $\pm$ 0.009 χ^2 /NDF:423.1/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 0.044 $\pm$ 0.008 χ^2 /NDF:977.0/15

Left: 0.044 $\pm$ 0.006 χ^2 /NDF: 1400.1/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 0.044 $\pm$ 0.008 χ^2 /NDF:977.0/15
 Out: 0.044 $\pm$ 0.009 χ^2 /NDF:423.1/16
 All: 0.044 $\pm$ 0.006 χ^2 /NDF: 1400.1/32

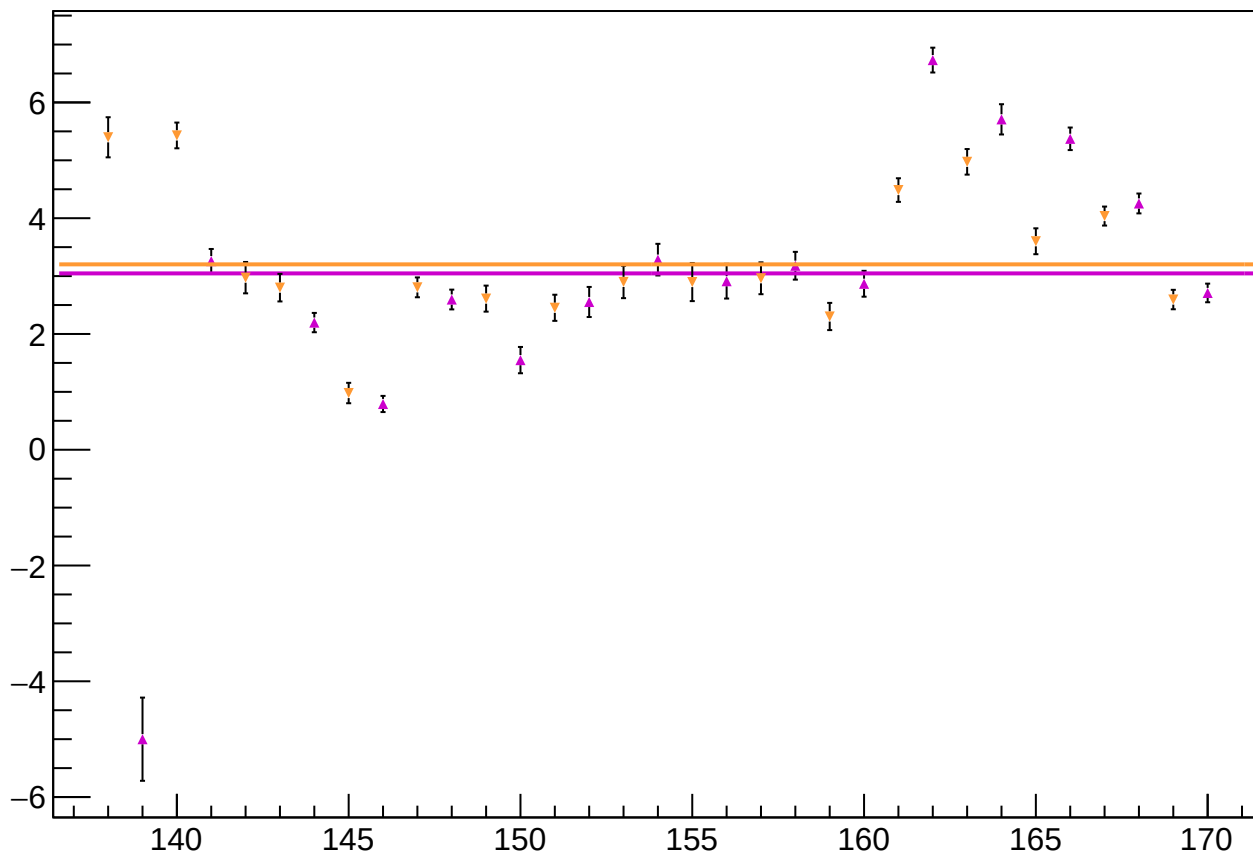
reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: -7.153 $\pm$ 0.073 χ^2 /NDF:1853.5/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: -6.896 $\pm$ 0.071 χ^2 /NDF:1862.3/15

Left: -7.020 $\pm$ 0.051 χ^2 /NDF: 3722.1/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: -6.896 $\pm$ 0.071 χ^2 /NDF:1862.3/15
 Out: -7.153 $\pm$ 0.073 χ^2 /NDF:1853.5/16
 All: -7.020 $\pm$ 0.051 χ^2 /NDF: 3722.1/32

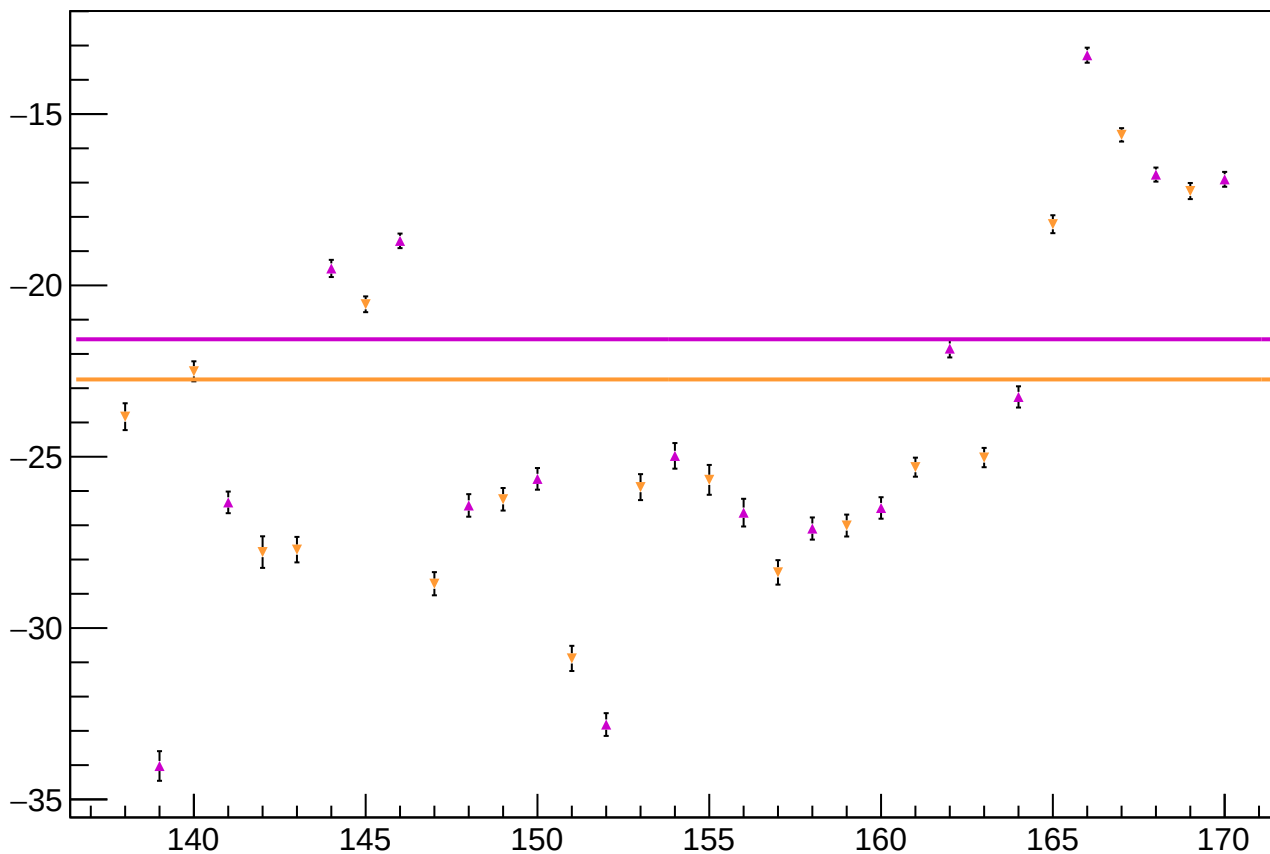
reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left Out: 3.203 $\pm$ 0.053 χ^2/NDF :489.9/16
 Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left In: 3.046 $\pm$ 0.051 χ^2/NDF :1064.8/15

Left: 3.122 $\pm$ 0.037 χ^2/NDF : 1559.2/32
 Right: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 In: 3.046 $\pm$ 0.051 χ^2/NDF :1064.8/15
 Out: 3.203 $\pm$ 0.053 χ^2/NDF :489.9/16
 All: 3.122 $\pm$ 0.037 χ^2/NDF : 1559.2/32

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -22.744+/-0.073 χ^2/NDF : 4179.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -21.572+/-0.070 χ^2/NDF : 6078.3/15

Left: -22.133+/-0.050 χ^2/NDF : 10392.8/32

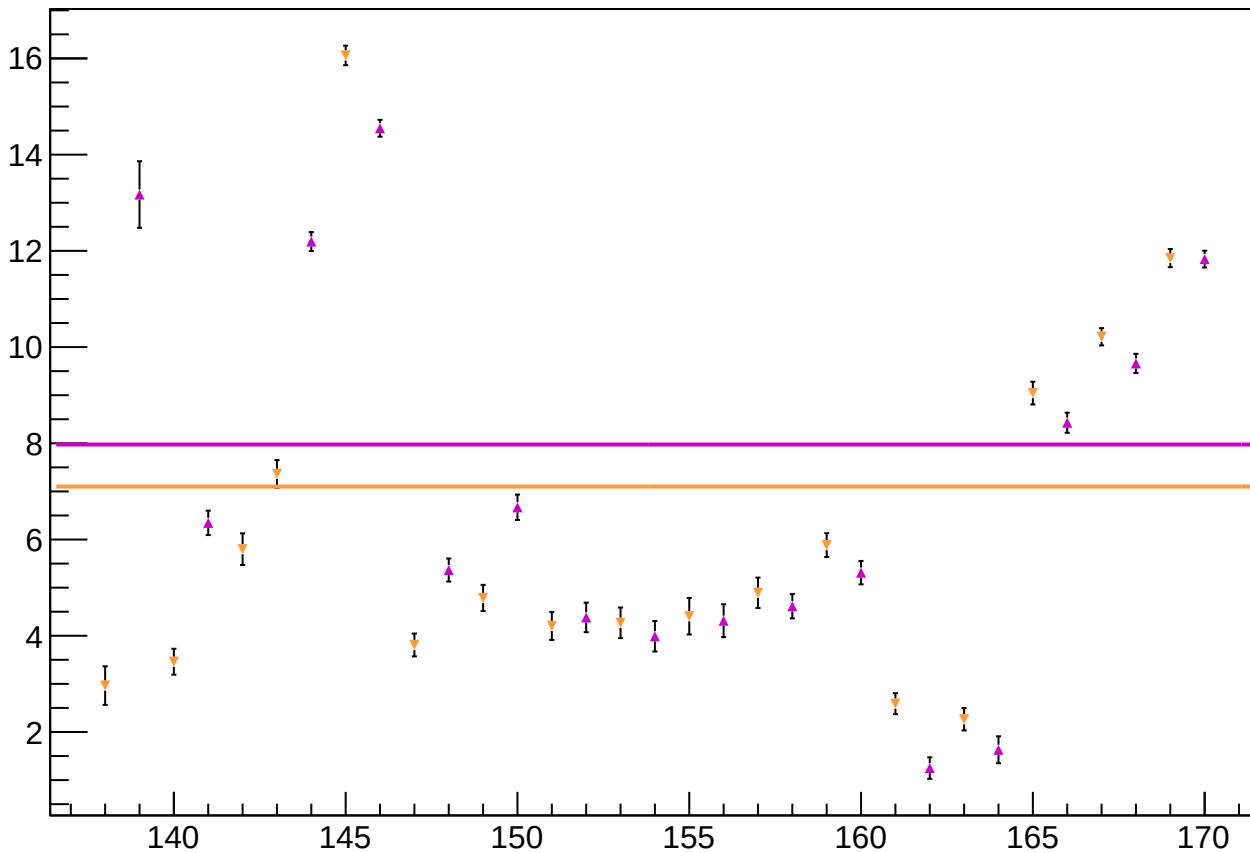
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -21.572+/-0.070 χ^2/NDF : 6078.3/15

Out: -22.744+/-0.073 χ^2/NDF : 4179.4/16

All: -22.133+/-0.050 χ^2/NDF : 10392.8/32

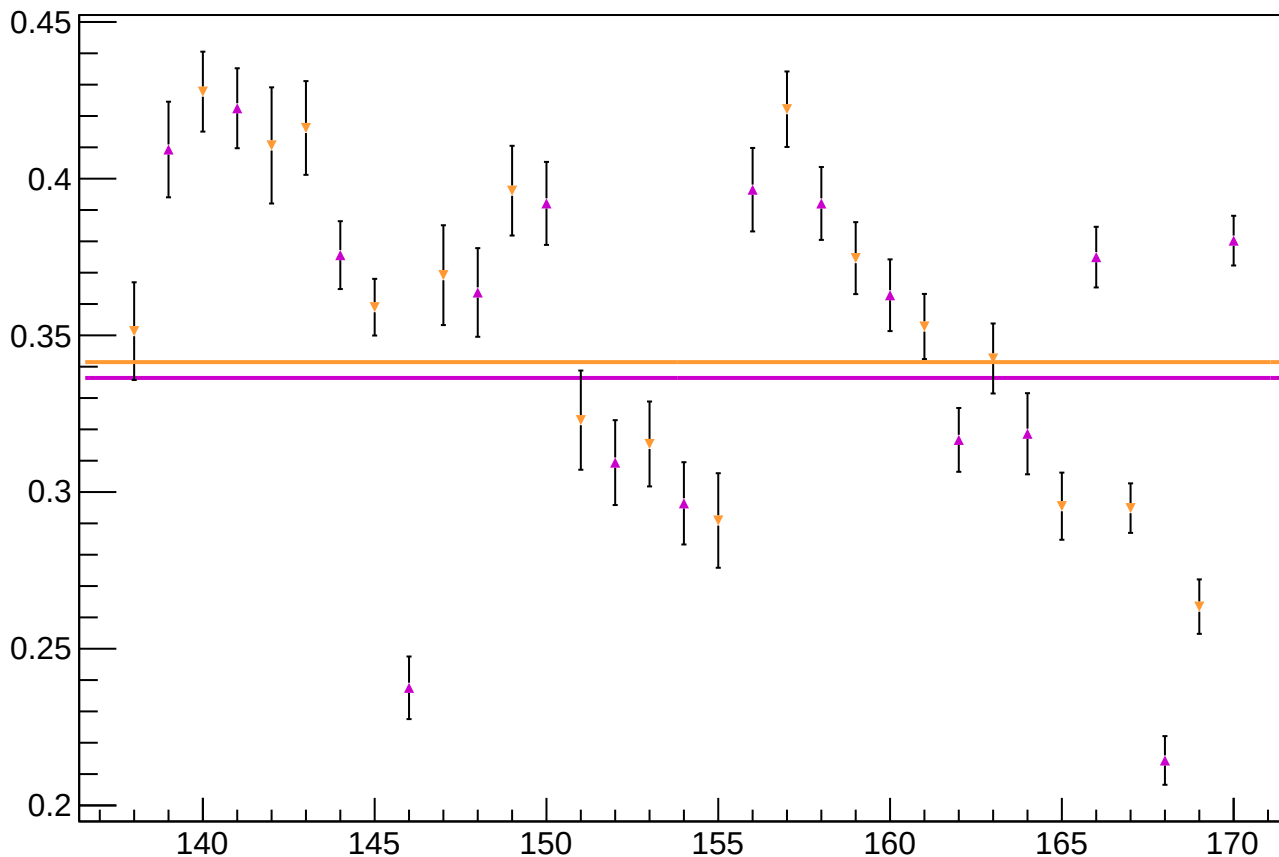
reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 7.102+/-0.061 χ^2/NDF : 4680.4/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 7.975+/-0.059 χ^2/NDF : 4794.7/15

Left: 7.550+/-0.043 χ^2/NDF : 9580.1/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 7.975+/-0.059 χ^2/NDF : 4794.7/15
 Out: 7.102+/-0.061 χ^2/NDF : 4680.4/16
 All: 7.550+/-0.043 χ^2/NDF : 9580.1/32

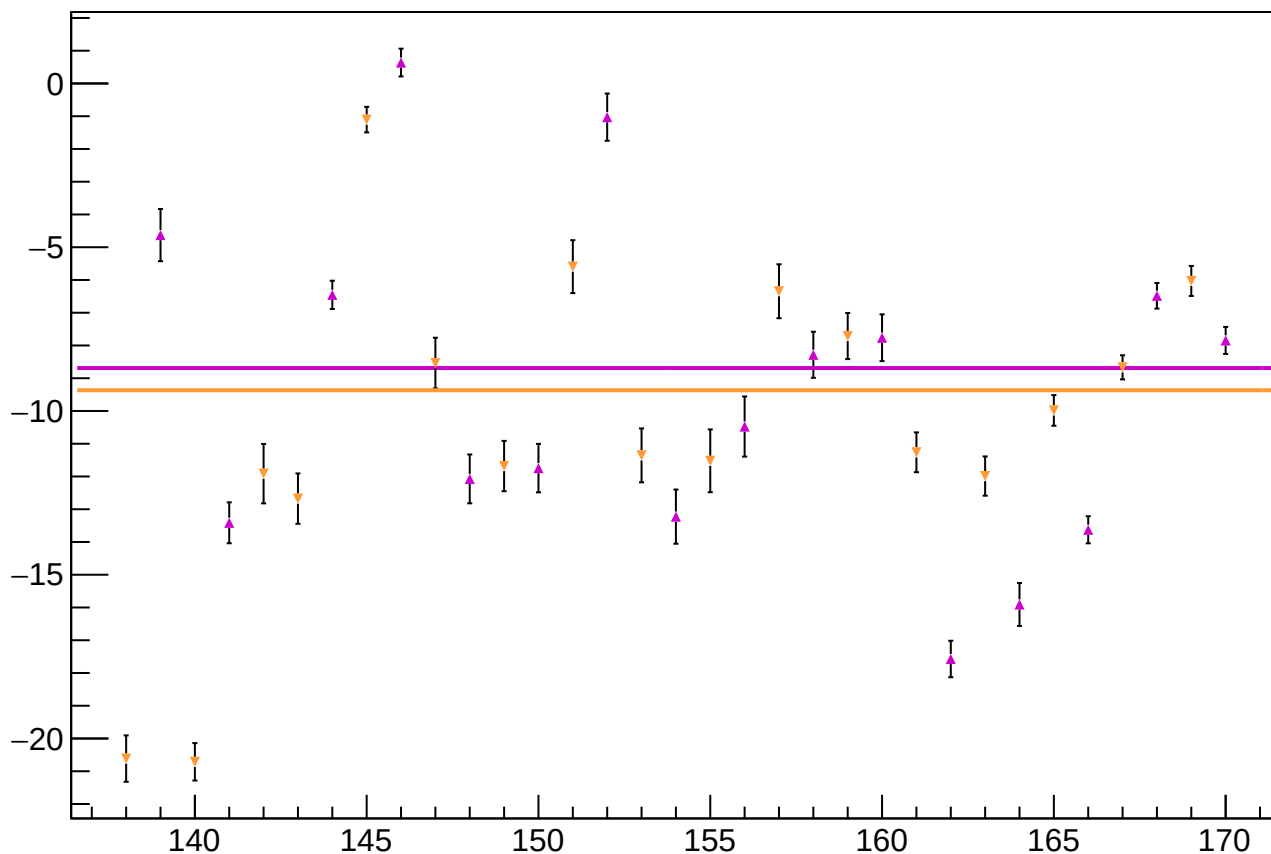
reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 0.341+/-0.003 χ^2/NDF :311.1/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 0.336+/-0.003 χ^2/NDF :561.6/15

Left: 0.339+/-0.002 χ^2/NDF : 874.3/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 0.336+/-0.003 χ^2/NDF :561.6/15
 Out: 0.341+/-0.003 χ^2/NDF :311.1/16
 All: 0.339+/-0.002 χ^2/NDF : 874.3/32

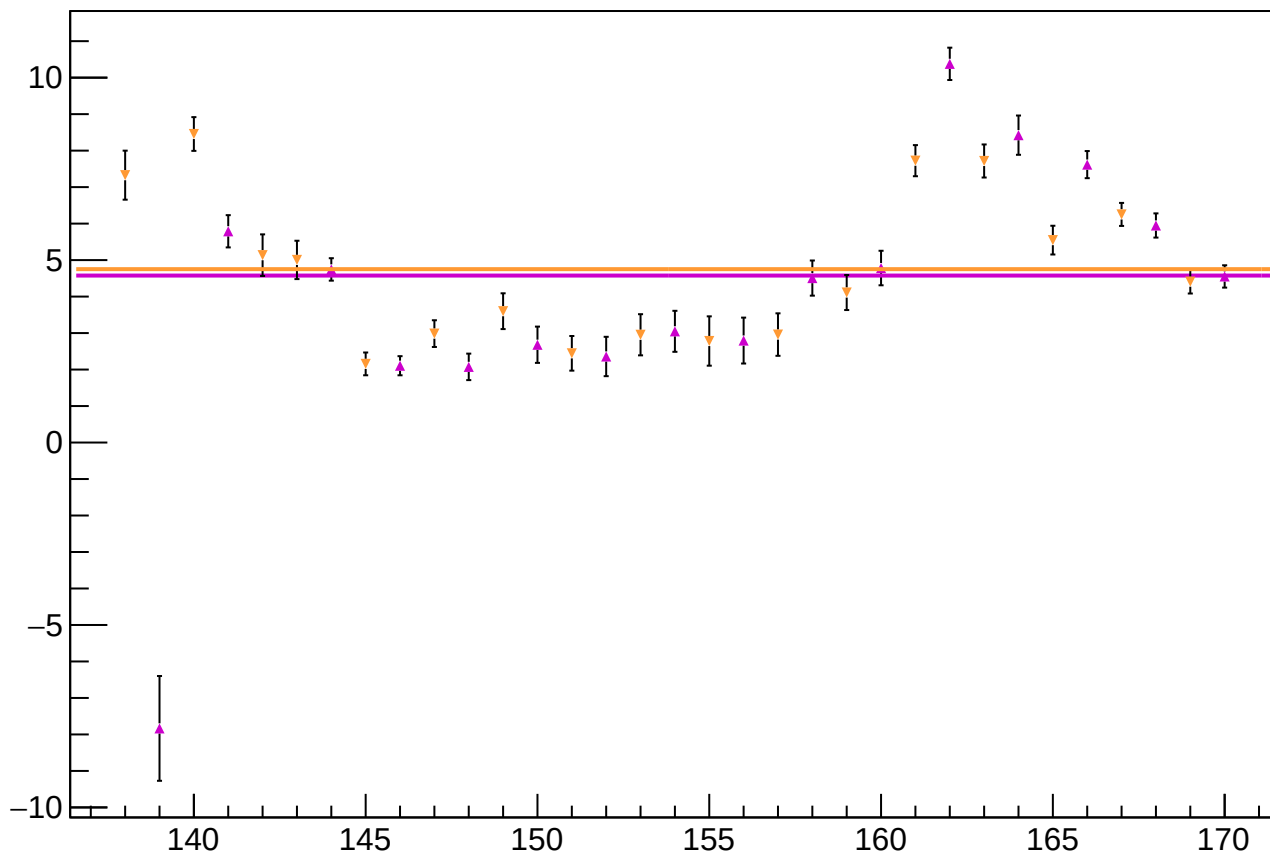
reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -9.367+/-0.145 χ^2/NDF :1270.3/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -8.688+/-0.140 χ^2/NDF :1334.4/15

Left: -9.016+/-0.101 χ^2/NDF : 2616.0/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -8.688+/-0.140 χ^2/NDF :1334.4/15
 Out: -9.367+/-0.145 χ^2/NDF :1270.3/16
 All: -9.016+/-0.101 χ^2/NDF : 2616.0/32

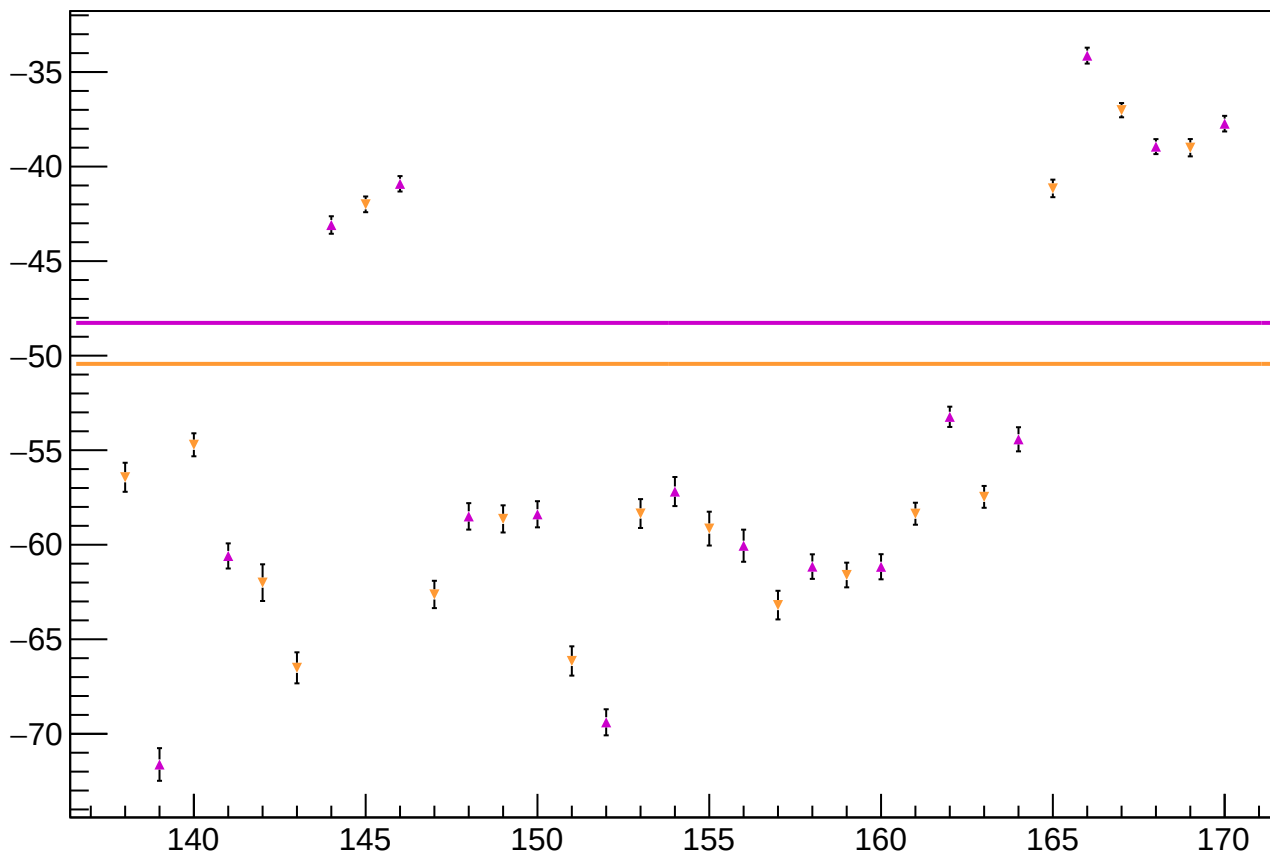
reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 4.752 $\pm$ 0.106 χ^2 /NDF:350.3/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 4.576 $\pm$ 0.102 χ^2 /NDF:572.8/15

Left: 4.661 $\pm$ 0.074 χ^2 /NDF: 924.5/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 4.576 $\pm$ 0.102 χ^2 /NDF:572.8/15
 Out: 4.752 $\pm$ 0.106 χ^2 /NDF:350.3/16
 All: 4.661 $\pm$ 0.074 χ^2 /NDF: 924.5/32

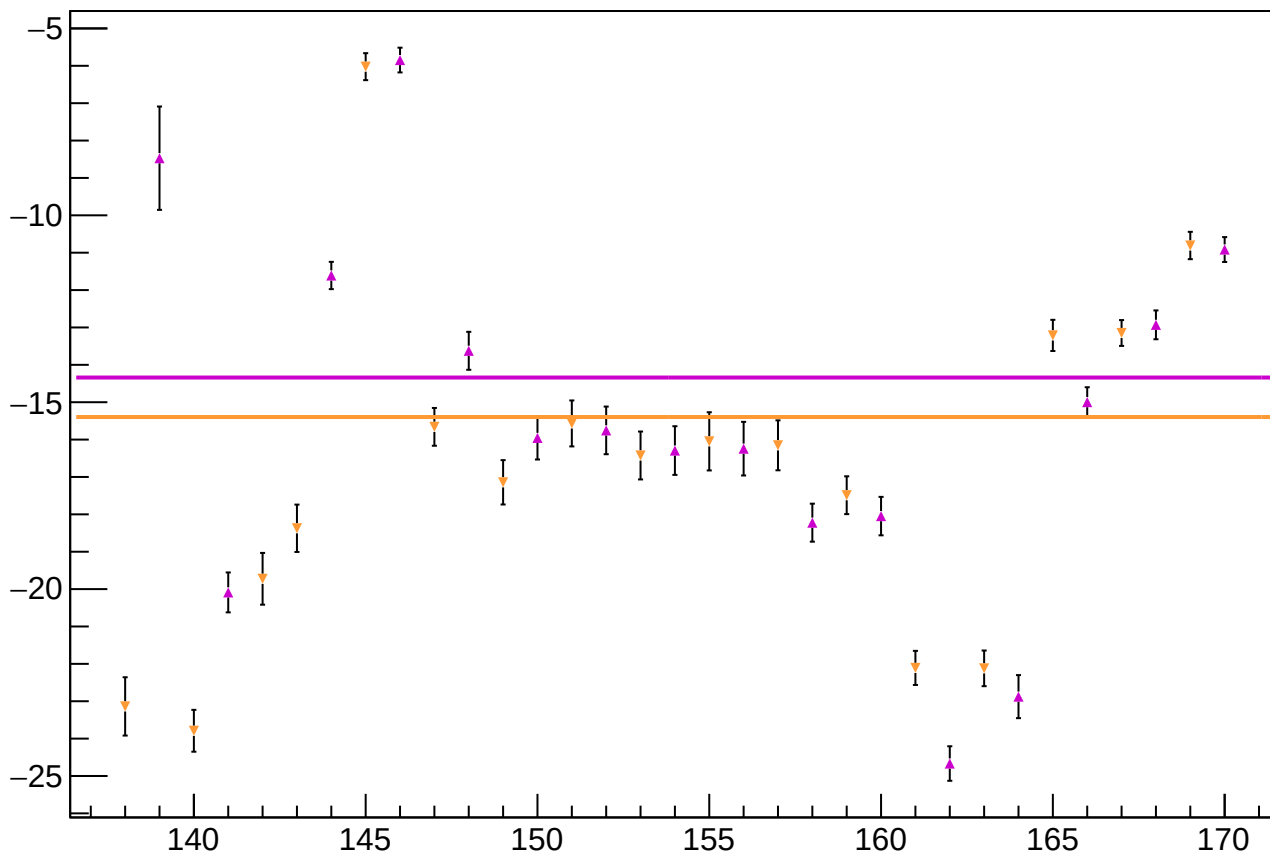
reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -50.434+/-0.145 χ^2/NDF :5274.9/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -48.267+/-0.139 χ^2/NDF :6501.0/15

Left: -49.304+/-0.100 χ^2/NDF : 11892.8/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -48.267+/-0.139 χ^2/NDF :6501.0/15
 Out: -50.434+/-0.145 χ^2/NDF :5274.9/16
 All: -49.304+/-0.100 χ^2/NDF : 11892.8/32

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Left Out: -15.396 ± 0.122 $\chi^2/\text{NDF}: 1732.1/16$
 Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$
 Left In: -14.340 ± 0.118 $\chi^2/\text{NDF}: 1830.7/15$

Left: -14.852 ± 0.085 $\chi^2/\text{NDF}: 3601.6/32$

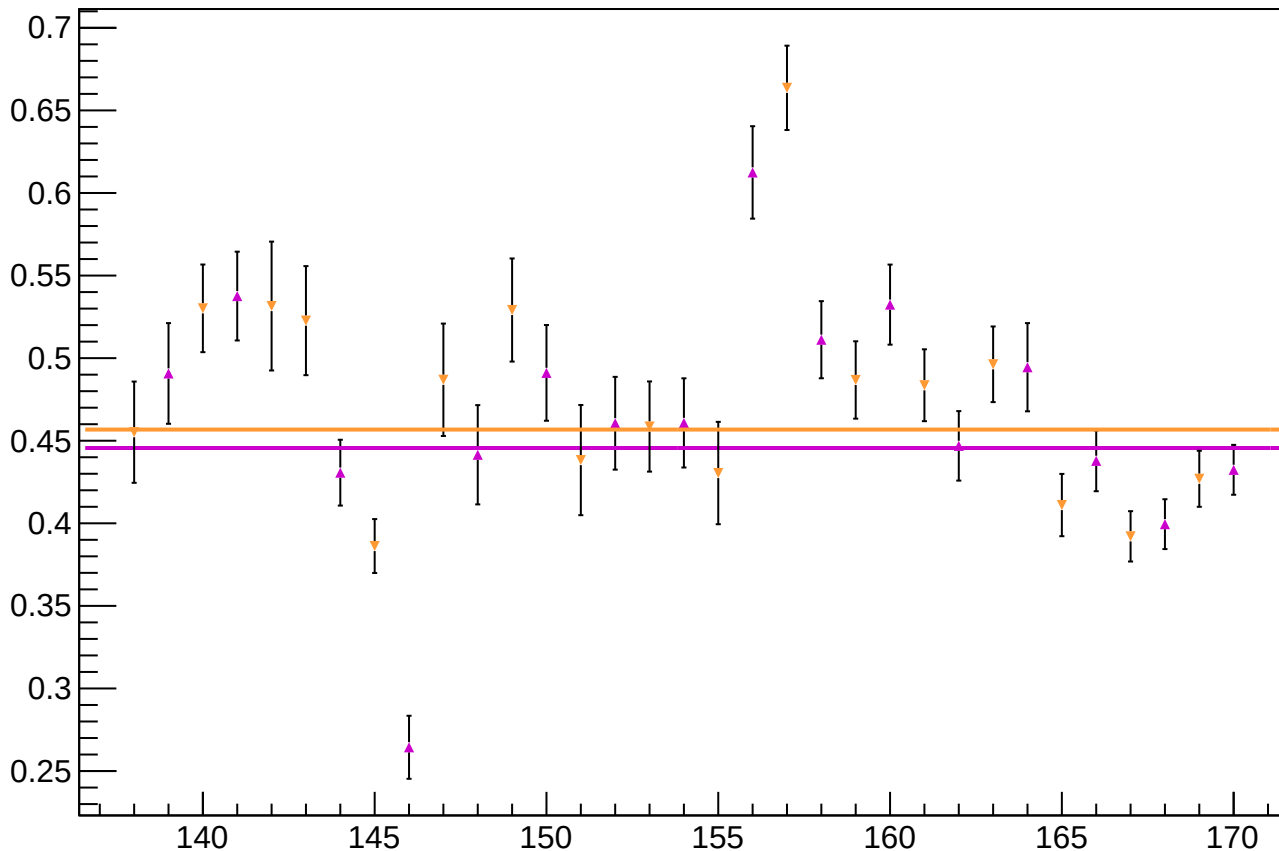
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 0.0/0$

In: -14.340 ± 0.118 $\chi^2/\text{NDF}: 1830.7/15$

Out: -15.396 ± 0.122 $\chi^2/\text{NDF}: 1732.1/16$

All: -14.852 ± 0.085 $\chi^2/\text{NDF}: 3601.6/32$

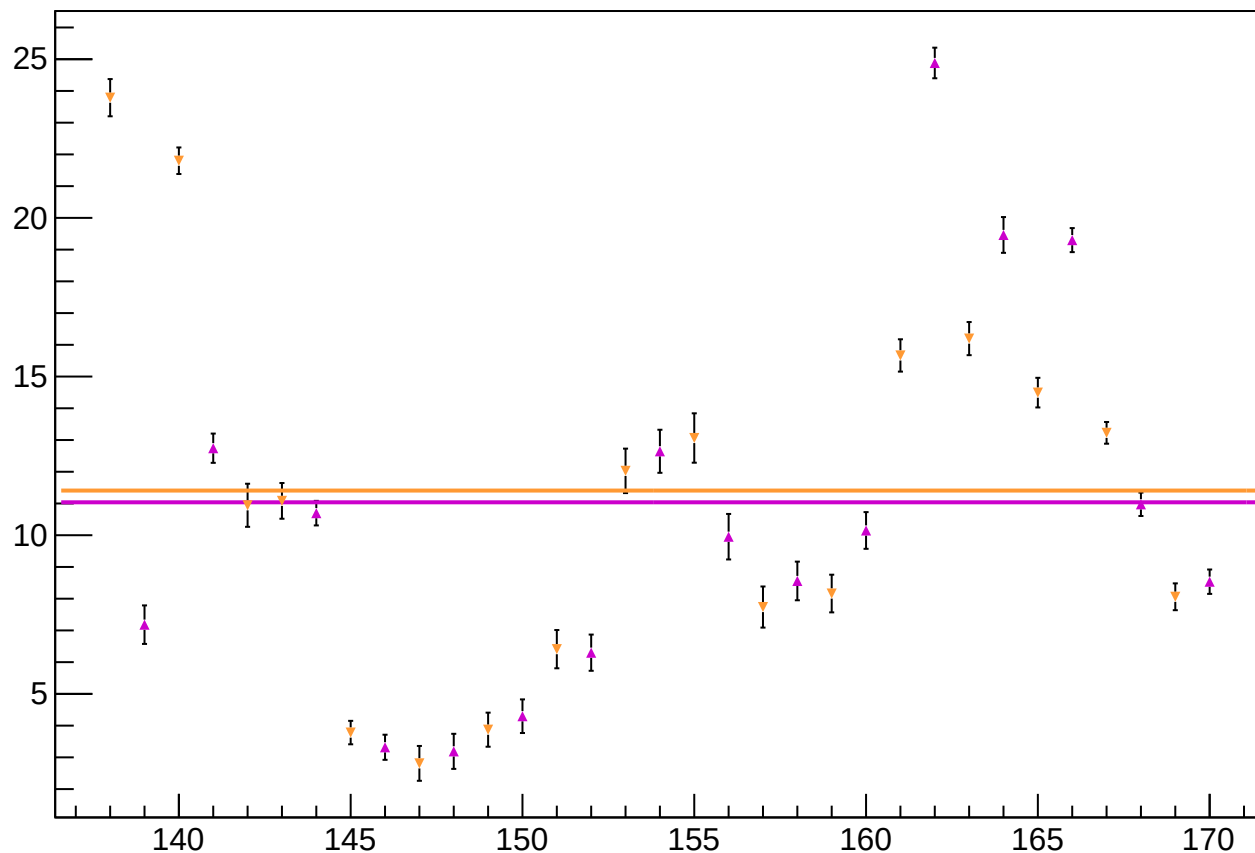
reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 0.457 $\pm$ 0.006 χ^2 /NDF:140.0/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 0.446 $\pm$ 0.006 χ^2 /NDF:177.6/15

Left: 0.451 $\pm$ 0.004 χ^2 /NDF: 319.6/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 0.446 $\pm$ 0.006 χ^2 /NDF:177.6/15
 Out: 0.457 $\pm$ 0.006 χ^2 /NDF:140.0/16
 All: 0.451 $\pm$ 0.004 χ^2 /NDF: 319.6/32

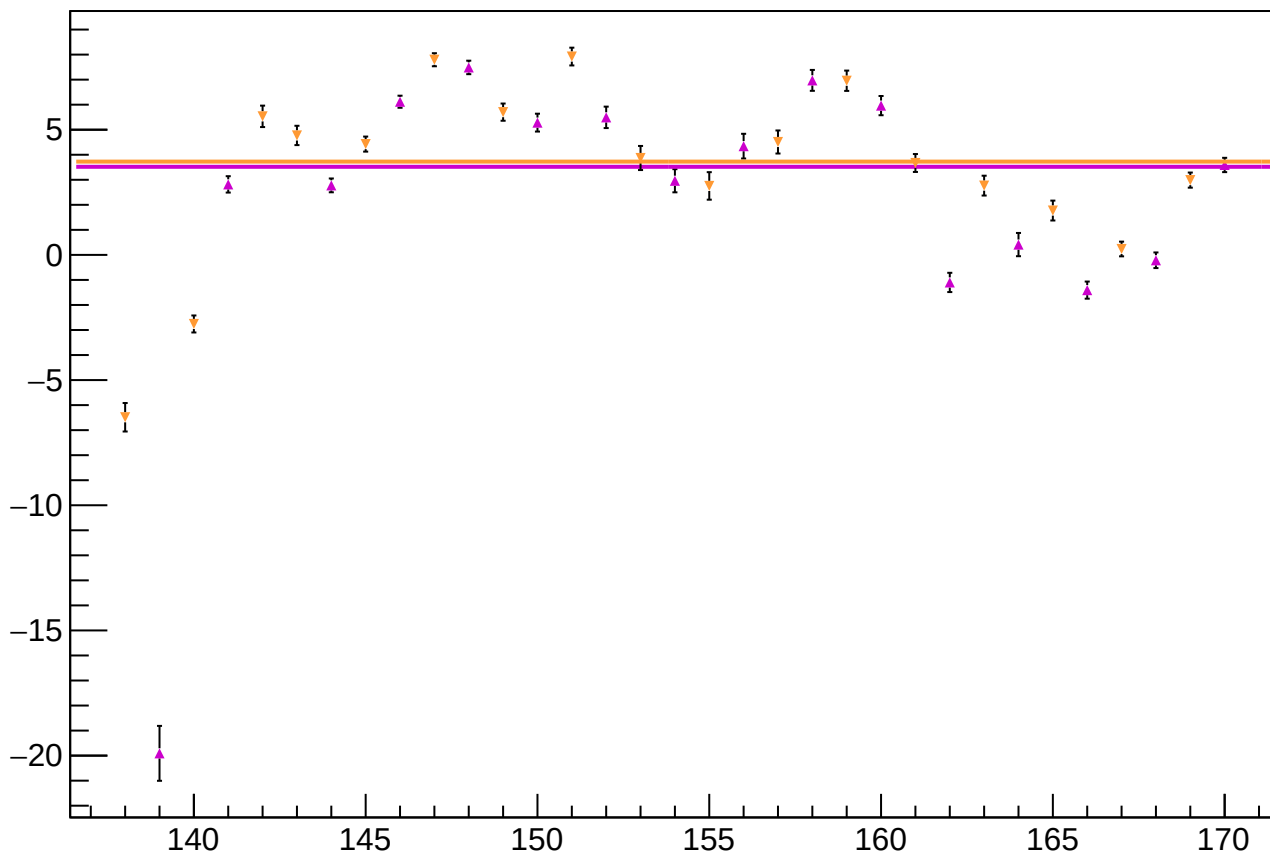
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 11.407+/-0.123 χ^2/NDF :2356.5/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 11.037+/-0.121 χ^2/NDF :2460.6/15

Left: 11.218+/-0.086 χ^2/NDF : 4821.6/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 11.037+/-0.121 χ^2/NDF :2460.6/15
 Out: 11.407+/-0.123 χ^2/NDF :2356.5/16
 All: 11.218+/-0.086 χ^2/NDF : 4821.6/32

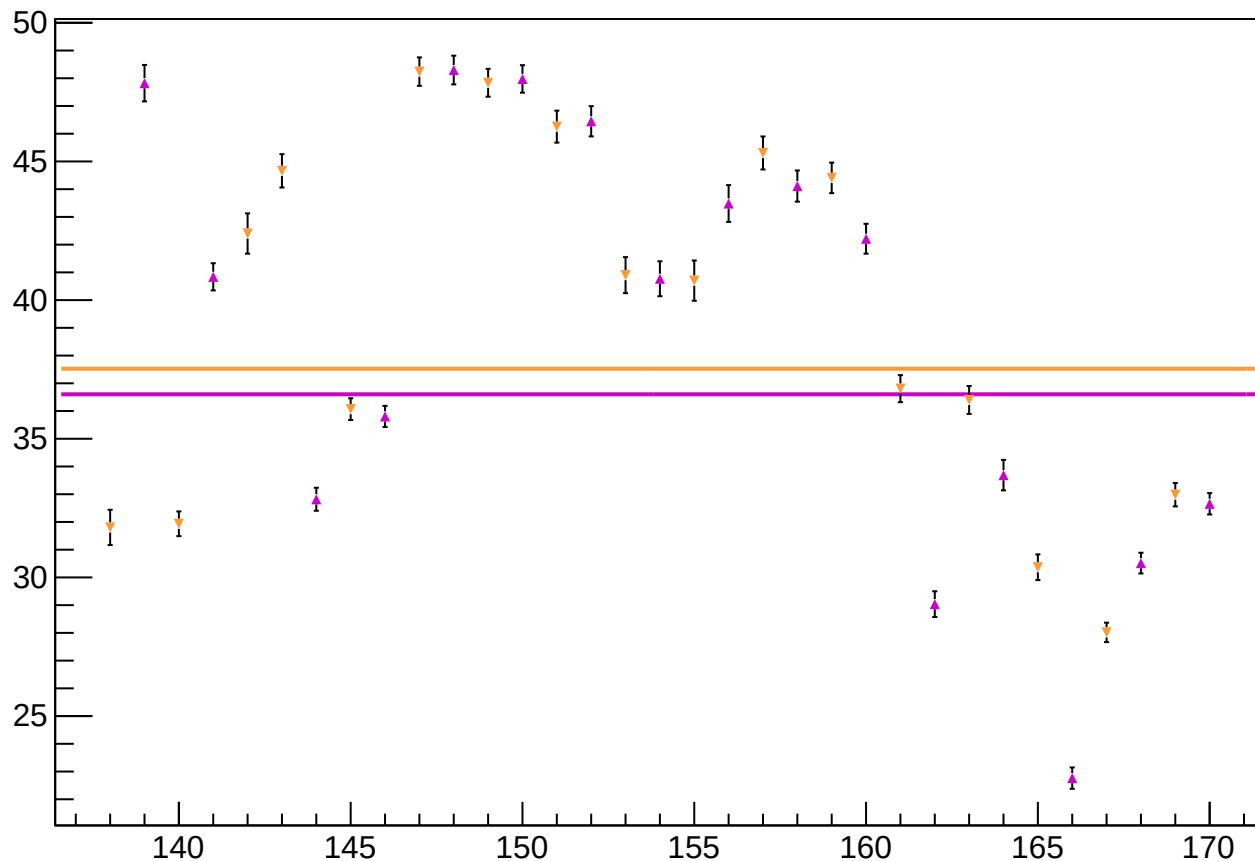
reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 3.726+/-0.089 χ^2/NDF :1380.1/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 3.519+/-0.087 χ^2/NDF :1499.9/15

Left: 3.621+/-0.062 χ^2/NDF : 2882.8/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 3.519+/-0.087 χ^2/NDF :1499.9/15
 Out: 3.726+/-0.089 χ^2/NDF :1380.1/16
 All: 3.621+/-0.062 χ^2/NDF : 2882.8/32

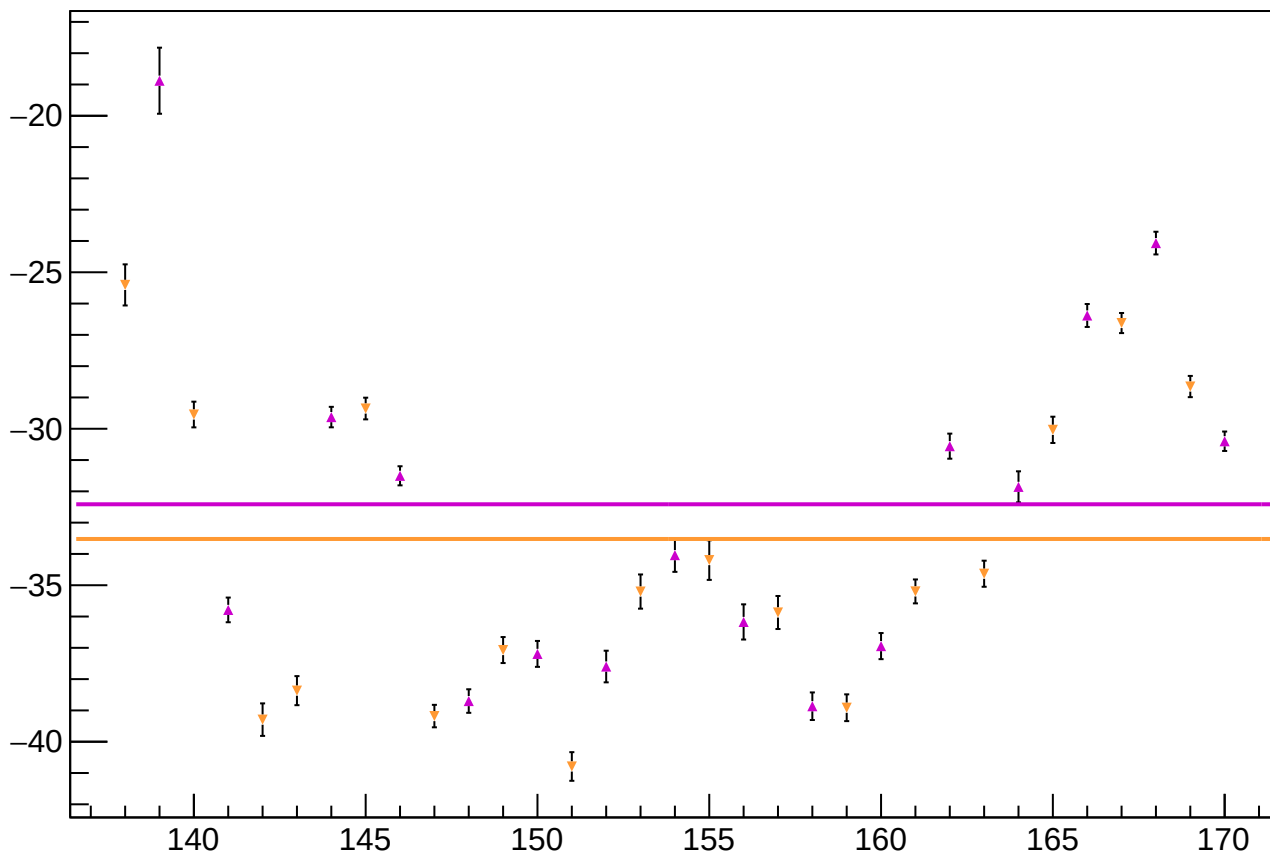
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 37.525 $\pm$ 0.123 χ^2 /NDF:2996.4/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 36.604 $\pm$ 0.119 χ^2 /NDF:4205.9/15

Left: 37.051 $\pm$ 0.085 χ^2 /NDF: 7231.3/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 36.604 $\pm$ 0.119 χ^2 /NDF:4205.9/15
 Out: 37.525 $\pm$ 0.123 χ^2 /NDF:2996.4/16
 All: 37.051 $\pm$ 0.085 χ^2 /NDF: 7231.3/32

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -33.522+/-0.103 χ^2/NDF :2150.0/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -32.413+/-0.101 χ^2/NDF :2088.7/15

Left: -32.960+/-0.072 χ^2/NDF : 4297.8/32

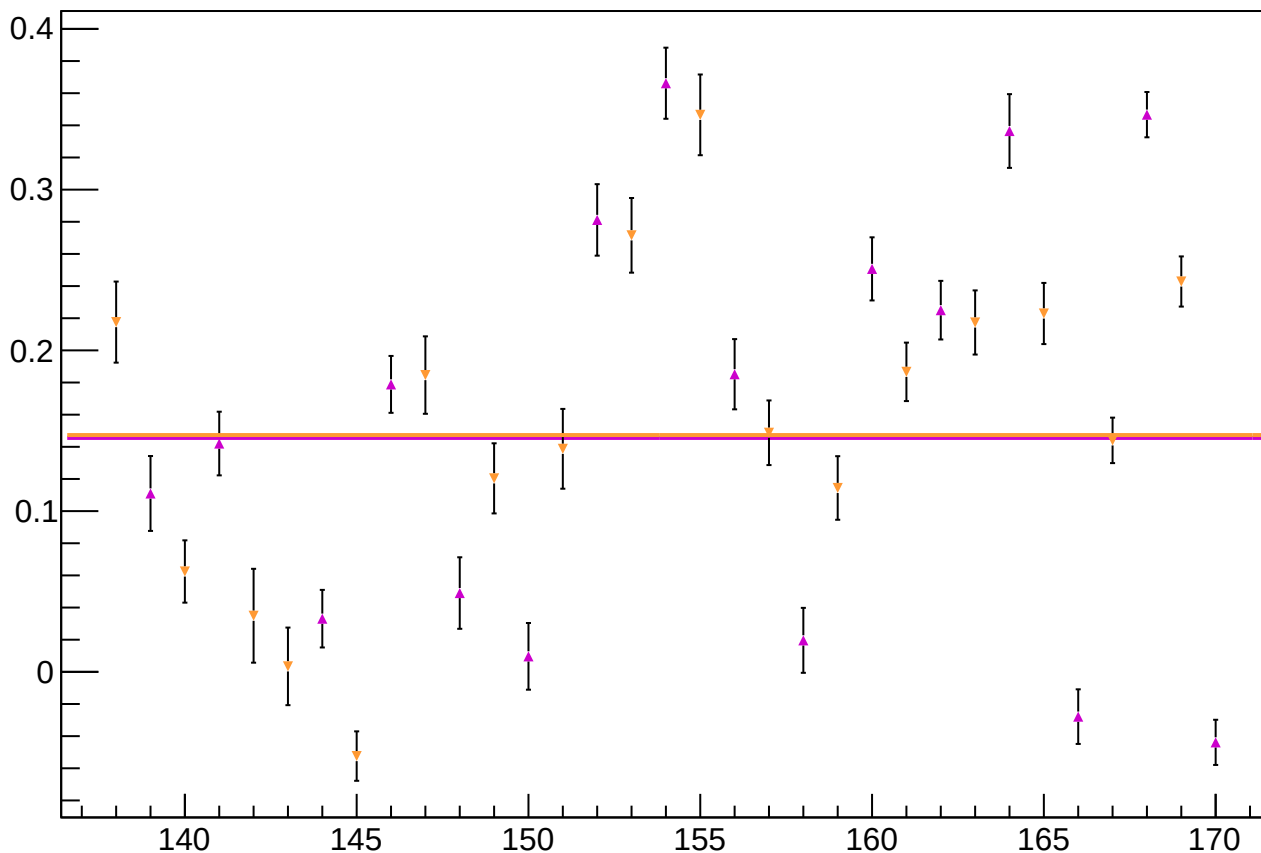
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -32.413+/-0.101 χ^2/NDF :2088.7/15

Out: -33.522+/-0.103 χ^2/NDF :2150.0/16

All: -32.960+/-0.072 χ^2/NDF : 4297.8/32

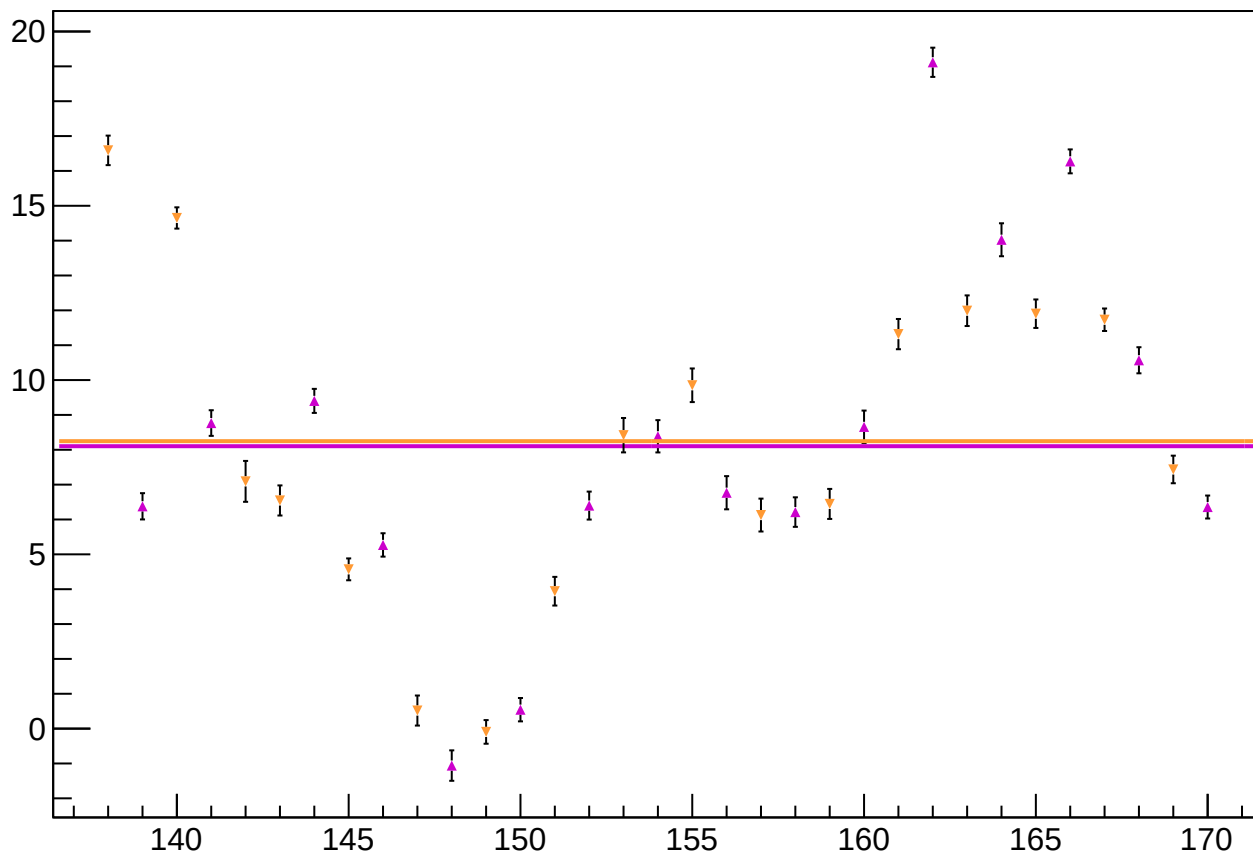
reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 0.147 $\pm$ 0.005 χ^2 /NDF:414.6/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 0.146 $\pm$ 0.005 χ^2 /NDF:892.1/15

Left: 0.146 $\pm$ 0.003 χ^2 /NDF: 1306.7/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 0.146 $\pm$ 0.005 χ^2 /NDF:892.1/15
 Out: 0.147 $\pm$ 0.005 χ^2 /NDF:414.6/16
 All: 0.146 $\pm$ 0.003 χ^2 /NDF: 1306.7/32

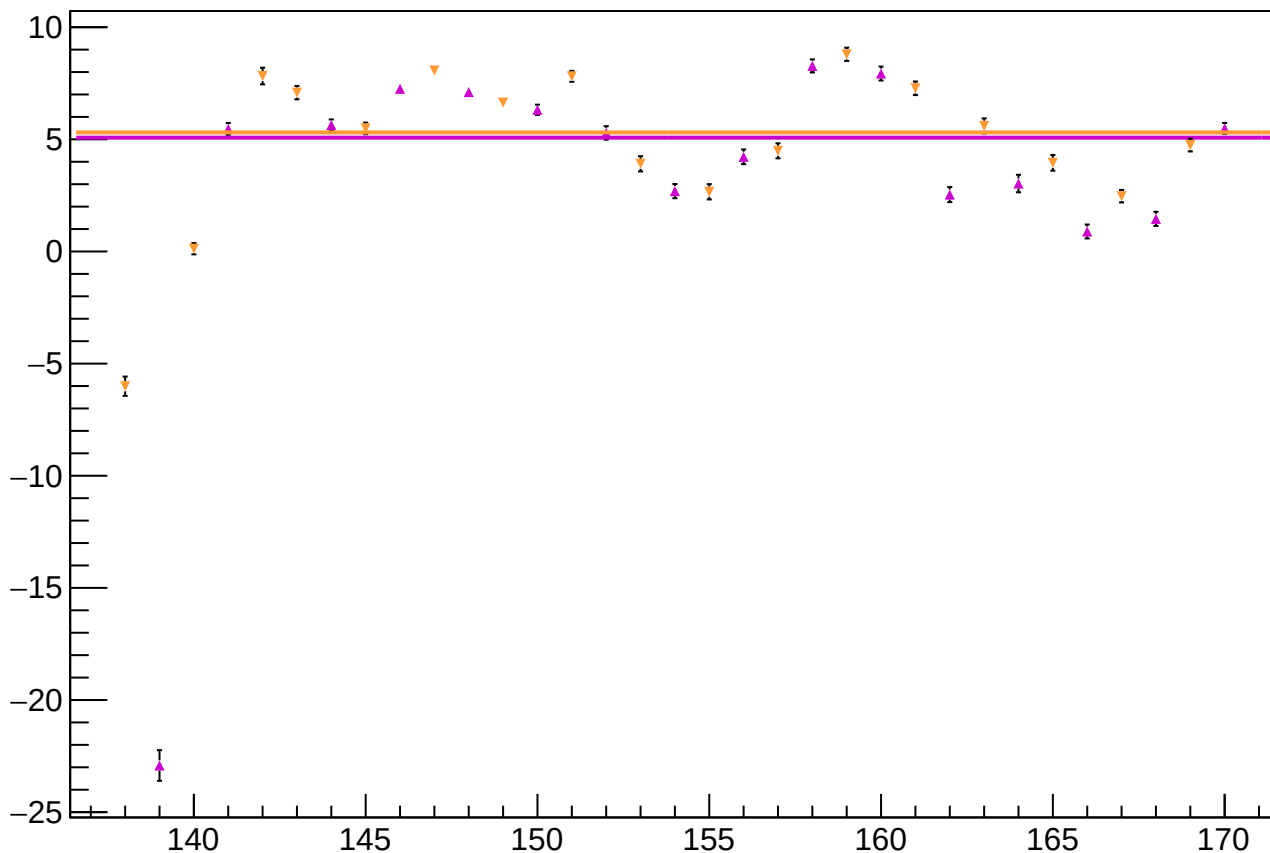
reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 8.247 $\pm$ 0.097 χ^2 /NDF:2392.8/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 8.102 $\pm$ 0.097 χ^2 /NDF:2591.3/15

Left: 8.174 $\pm$ 0.069 χ^2 /NDF: 4985.2/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 8.102 $\pm$ 0.097 χ^2 /NDF:2591.3/15
 Out: 8.247 $\pm$ 0.097 χ^2 /NDF:2392.8/16
 All: 8.174 $\pm$ 0.069 χ^2 /NDF: 4985.2/32

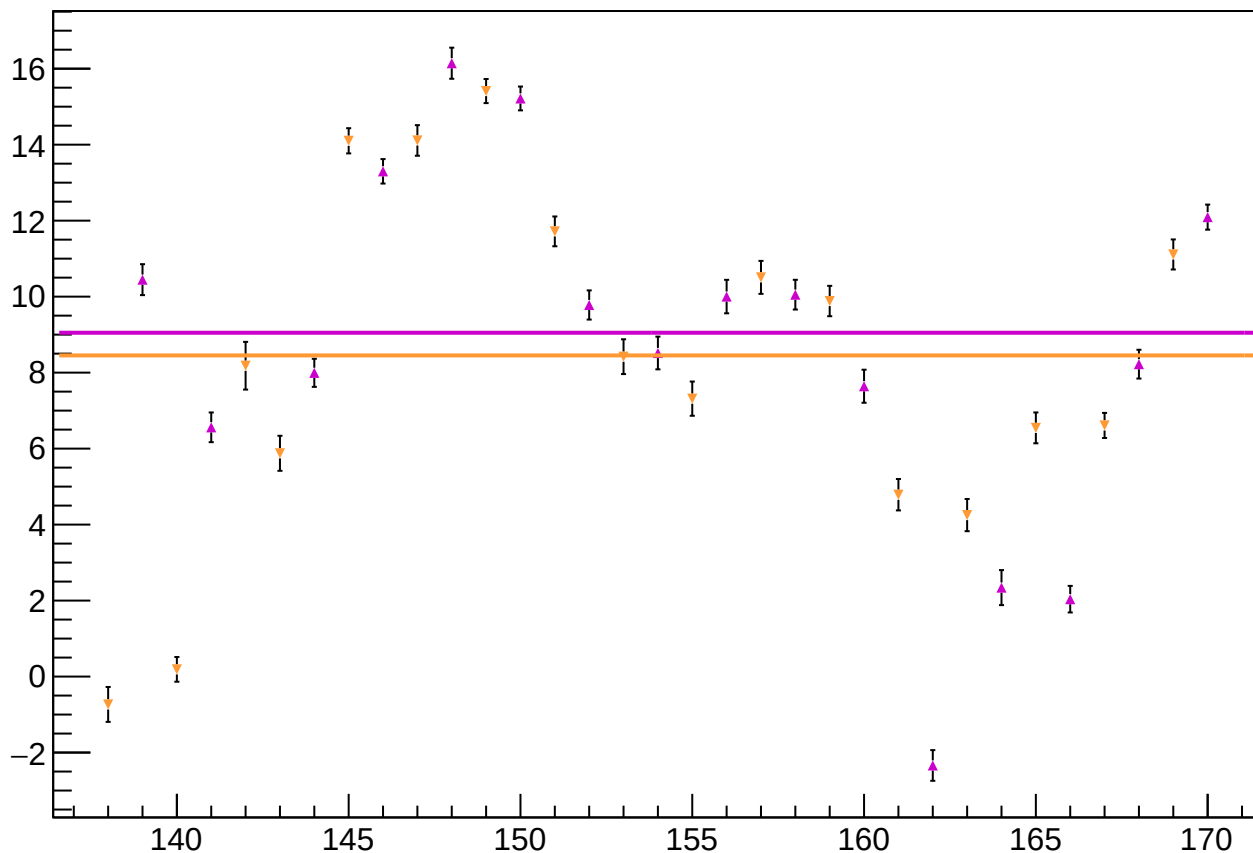
reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 5.308 $\pm$ 0.070 χ^2 /NDF:1898.2/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 5.075 $\pm$ 0.071 χ^2 /NDF:2572.0/15

Left: 5.193 $\pm$ 0.050 χ^2 /NDF: 4475.8/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 5.075 $\pm$ 0.071 χ^2 /NDF:2572.0/15
 Out: 5.308 $\pm$ 0.070 χ^2 /NDF:1898.2/16
 All: 5.193 $\pm$ 0.050 χ^2 /NDF: 4475.8/32

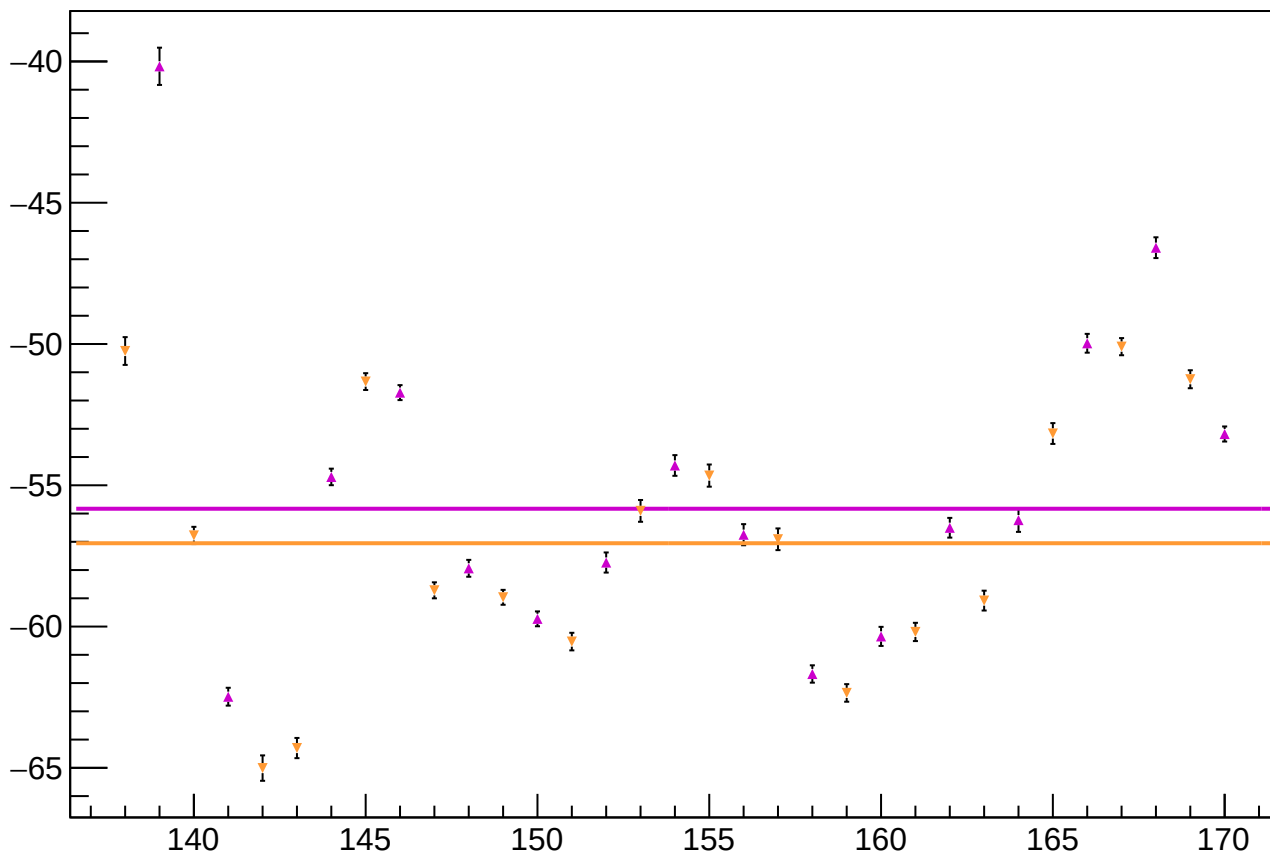
reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left Out: 8.453 $\pm$ 0.096 χ^2/NDF :2431.7/16
 Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 Left In: 9.050 $\pm$ 0.095 χ^2/NDF :2448.3/15

Left: 8.755 $\pm$ 0.068 χ^2/NDF : 4899.3/32
 Right: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0
 In: 9.050 $\pm$ 0.095 χ^2/NDF :2448.3/15
 Out: 8.453 $\pm$ 0.096 χ^2/NDF :2431.7/16
 All: 8.755 $\pm$ 0.068 χ^2/NDF : 4899.3/32

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -57.051+/-0.081 χ^2/NDF :2932.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -55.830+/-0.082 χ^2/NDF :3169.0/15

Left: -56.445+/-0.058 χ^2/NDF : 6214.0/32

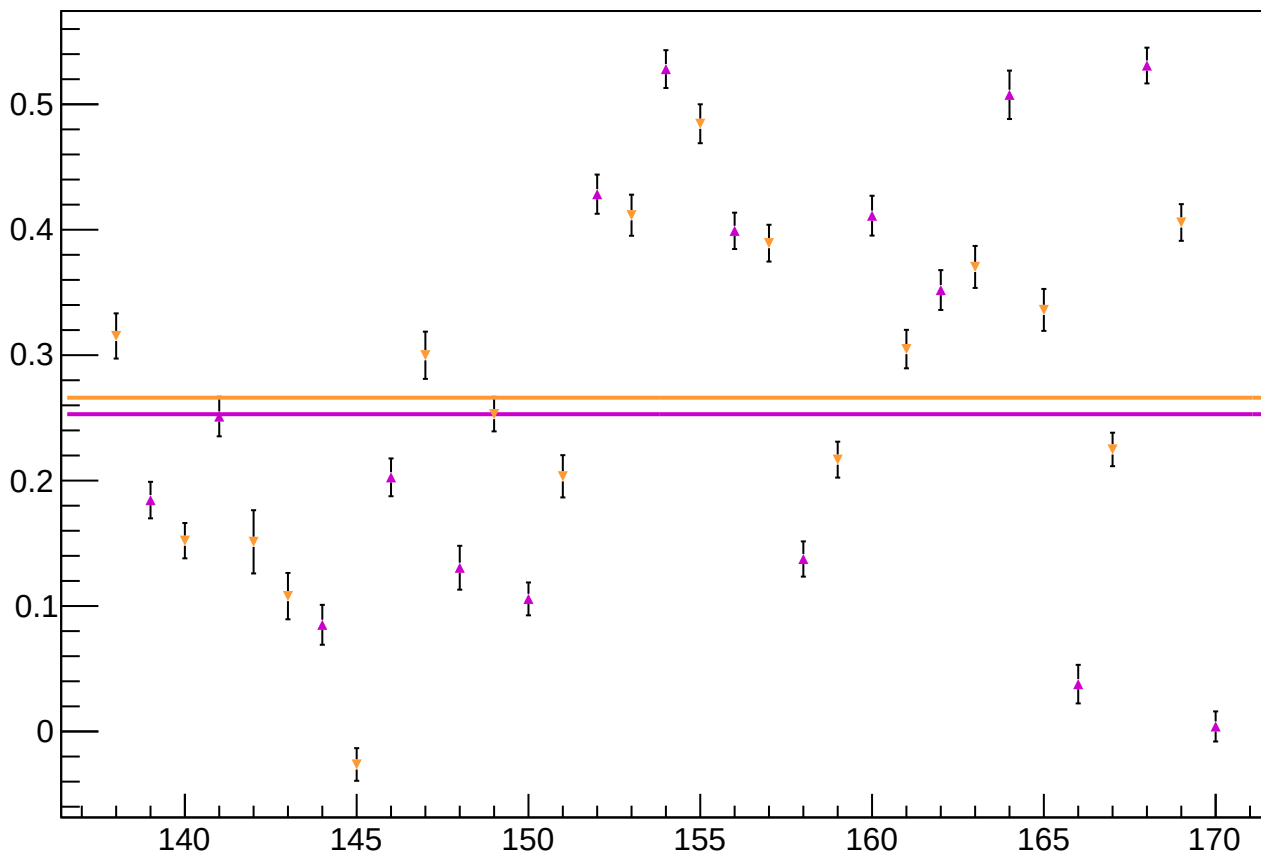
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -55.830+/-0.082 χ^2/NDF :3169.0/15

Out: -57.051+/-0.081 χ^2/NDF :2932.4/16

All: -56.445+/-0.058 χ^2/NDF : 6214.0/32

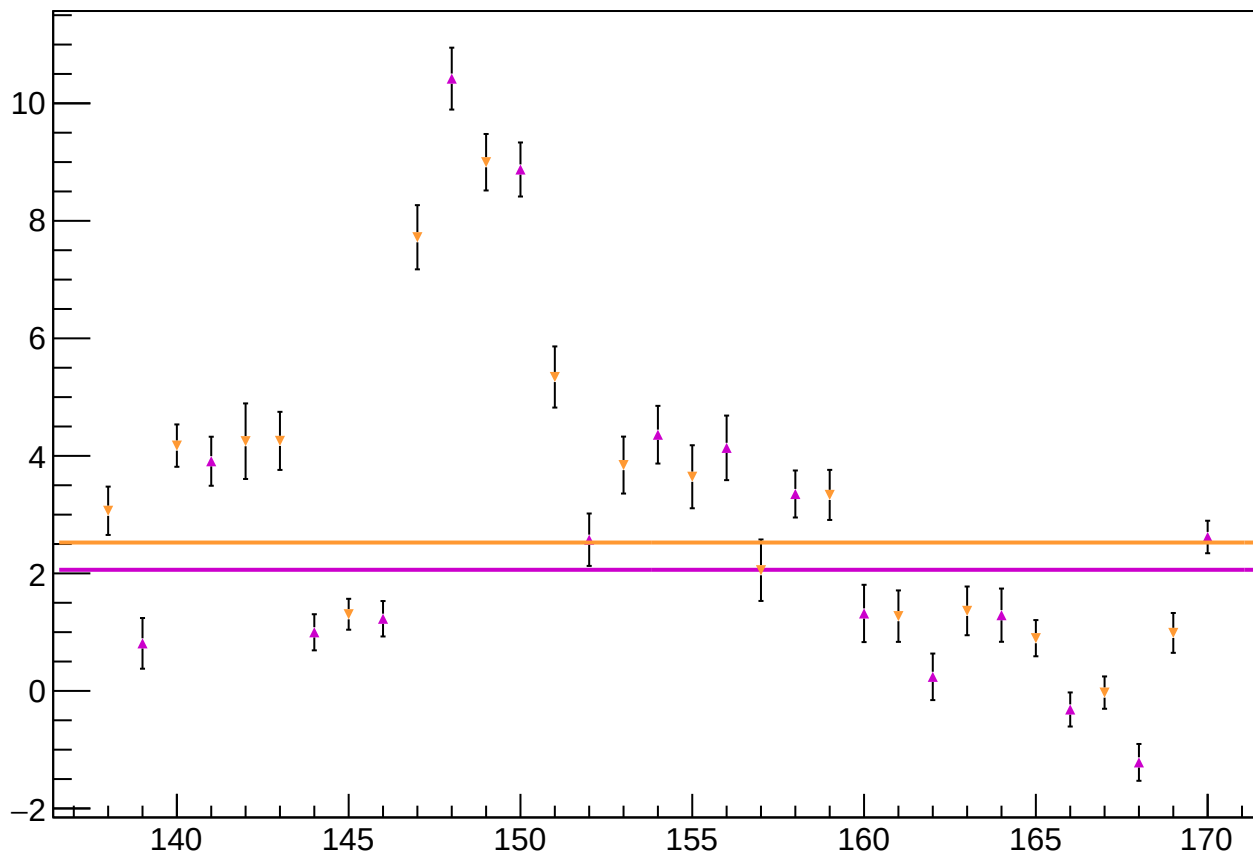
reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 0.266+/-0.004 χ^2/NDF :1213.3/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 0.253+/-0.004 χ^2/NDF :2266.6/15

Left: 0.259+/-0.003 χ^2/NDF : 3485.9/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 0.253+/-0.004 χ^2/NDF :2266.6/15
 Out: 0.266+/-0.004 χ^2/NDF :1213.3/16
 All: 0.259+/-0.003 χ^2/NDF : 3485.9/32

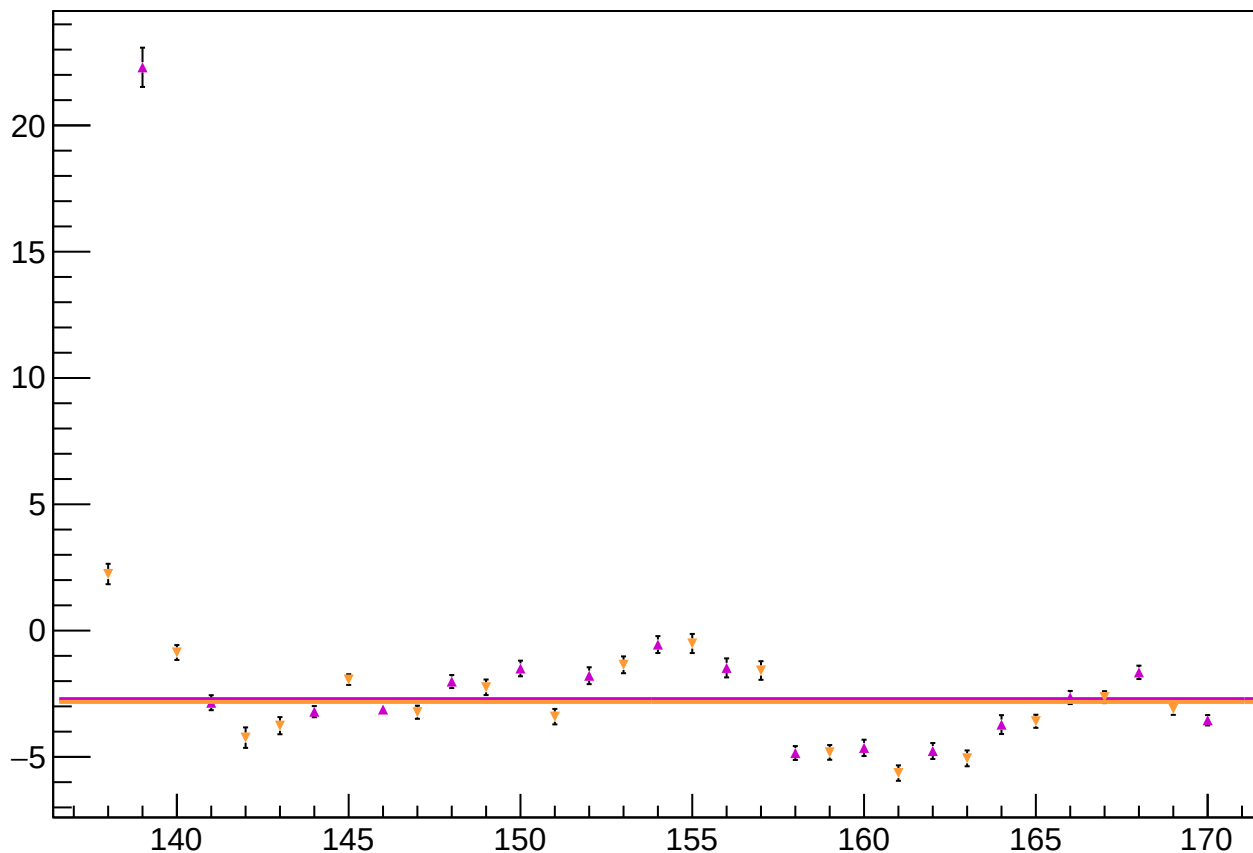
reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 2.525 $\pm$ 0.097 χ^2 /NDF:531.6/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 2.061 $\pm$ 0.095 χ^2 /NDF:773.9/15

Left: 2.289 $\pm$ 0.068 χ^2 /NDF: 1317.2/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 2.061 $\pm$ 0.095 χ^2 /NDF:773.9/15
 Out: 2.525 $\pm$ 0.097 χ^2 /NDF:531.6/16
 All: 2.289 $\pm$ 0.068 χ^2 /NDF: 1317.2/32

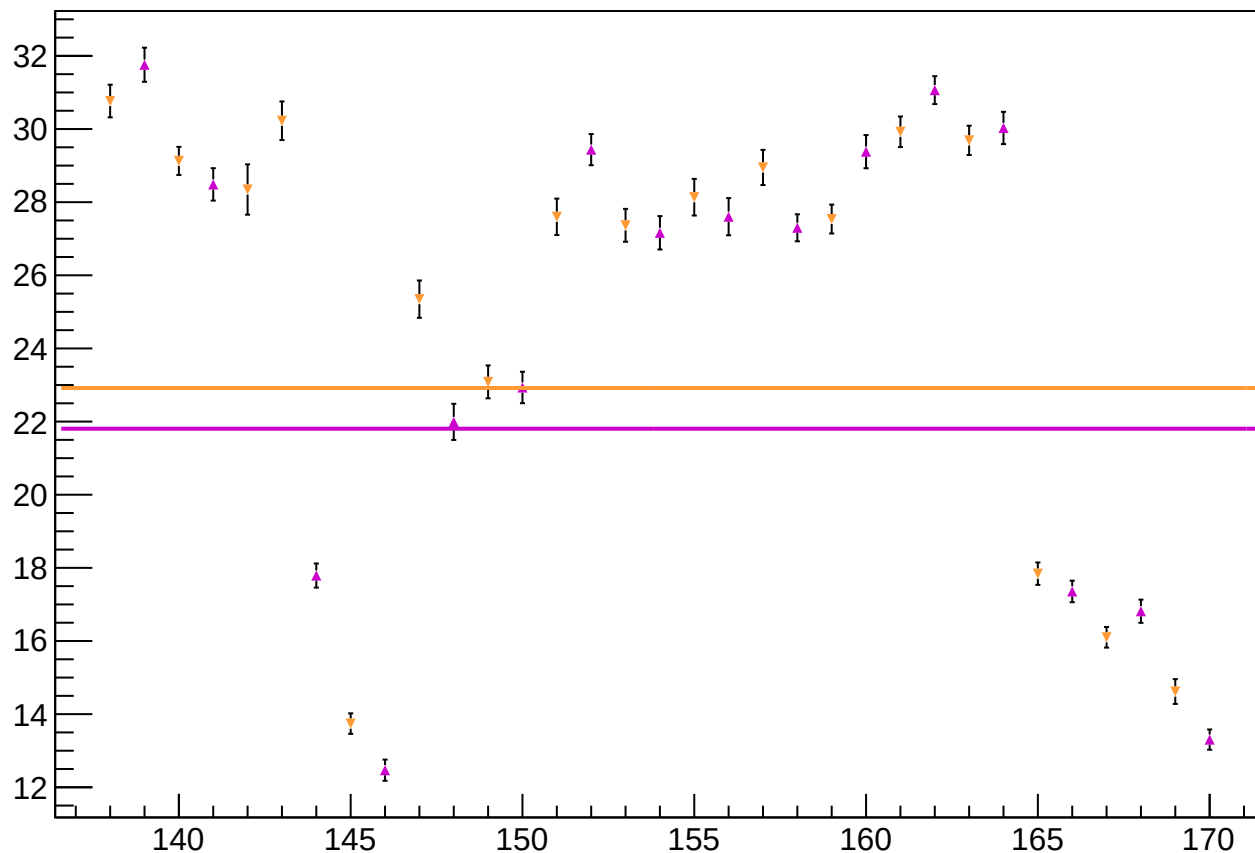
reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -2.824+/-0.071 χ^2/NDF :509.2/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -2.713+/-0.070 χ^2/NDF :1306.8/15

Left: -2.767+/-0.050 χ^2/NDF : 1817.2/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -2.713+/-0.070 χ^2/NDF :1306.8/15
 Out: -2.824+/-0.071 χ^2/NDF :509.2/16
 All: -2.767+/-0.050 χ^2/NDF : 1817.2/32

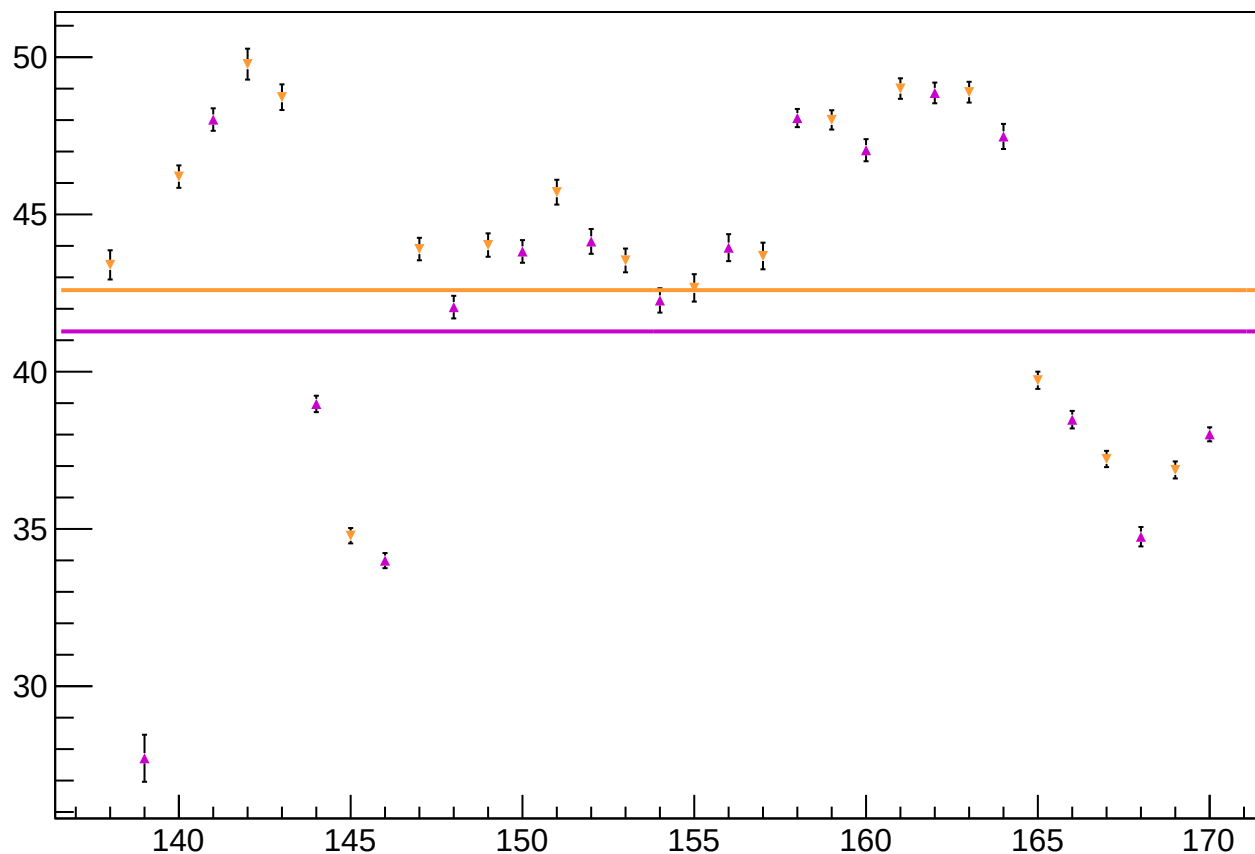
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 22.919+/-0.097 χ^2/NDF : 4537.5/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 21.805+/-0.094 χ^2/NDF : 5316.1/15

Left: 22.346+/-0.067 χ^2/NDF : 9921.7/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 21.805+/-0.094 χ^2/NDF : 5316.1/15
 Out: 22.919+/-0.097 χ^2/NDF : 4537.5/16
 All: 22.346+/-0.067 χ^2/NDF : 9921.7/32

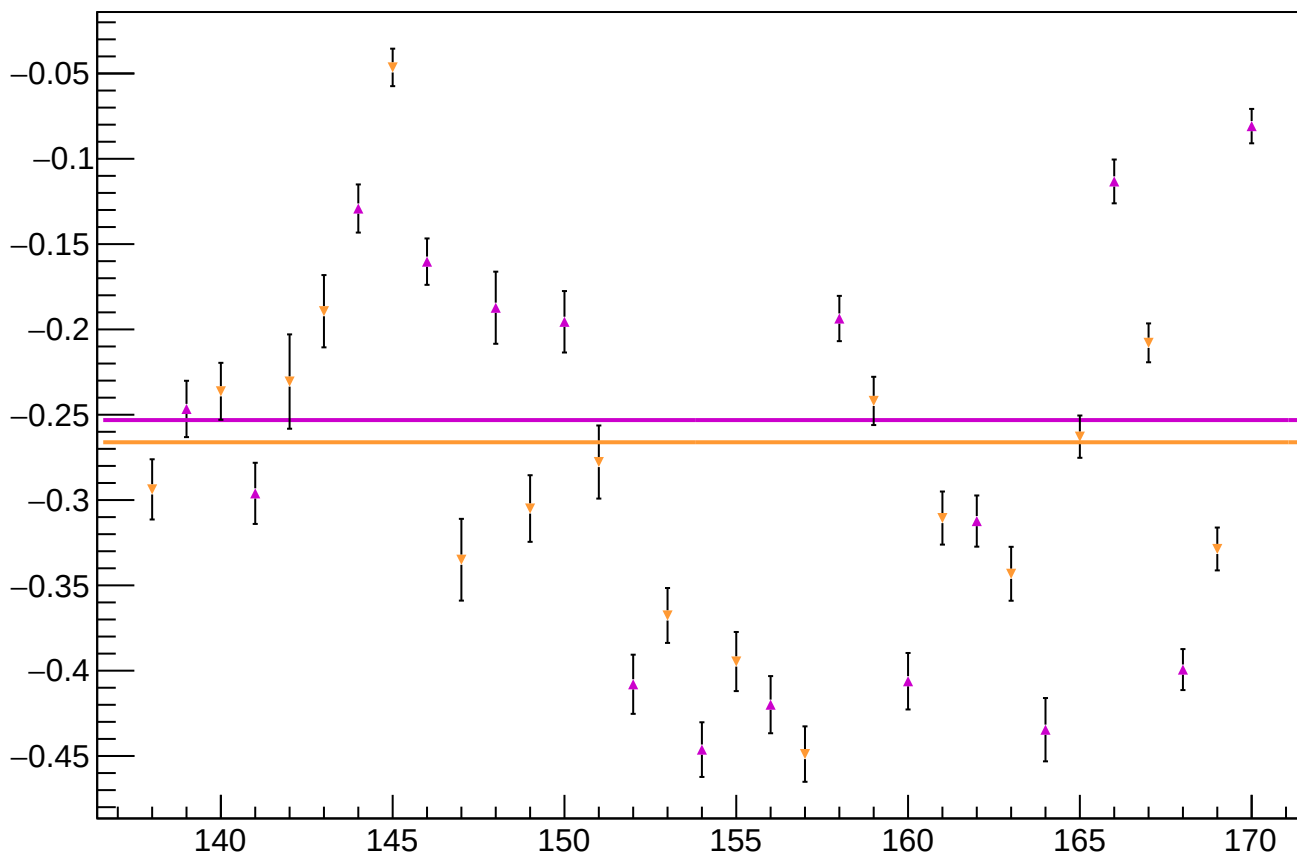
reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 42.593+/-0.082 χ^2/NDF : 3715.7/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 41.280+/-0.080 χ^2/NDF : 4185.4/15

Left: 41.926+/-0.057 χ^2/NDF : 8032.1/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 41.280+/-0.080 χ^2/NDF : 4185.4/15
 Out: 42.593+/-0.082 χ^2/NDF : 3715.7/16
 All: 41.926+/-0.057 χ^2/NDF : 8032.1/32

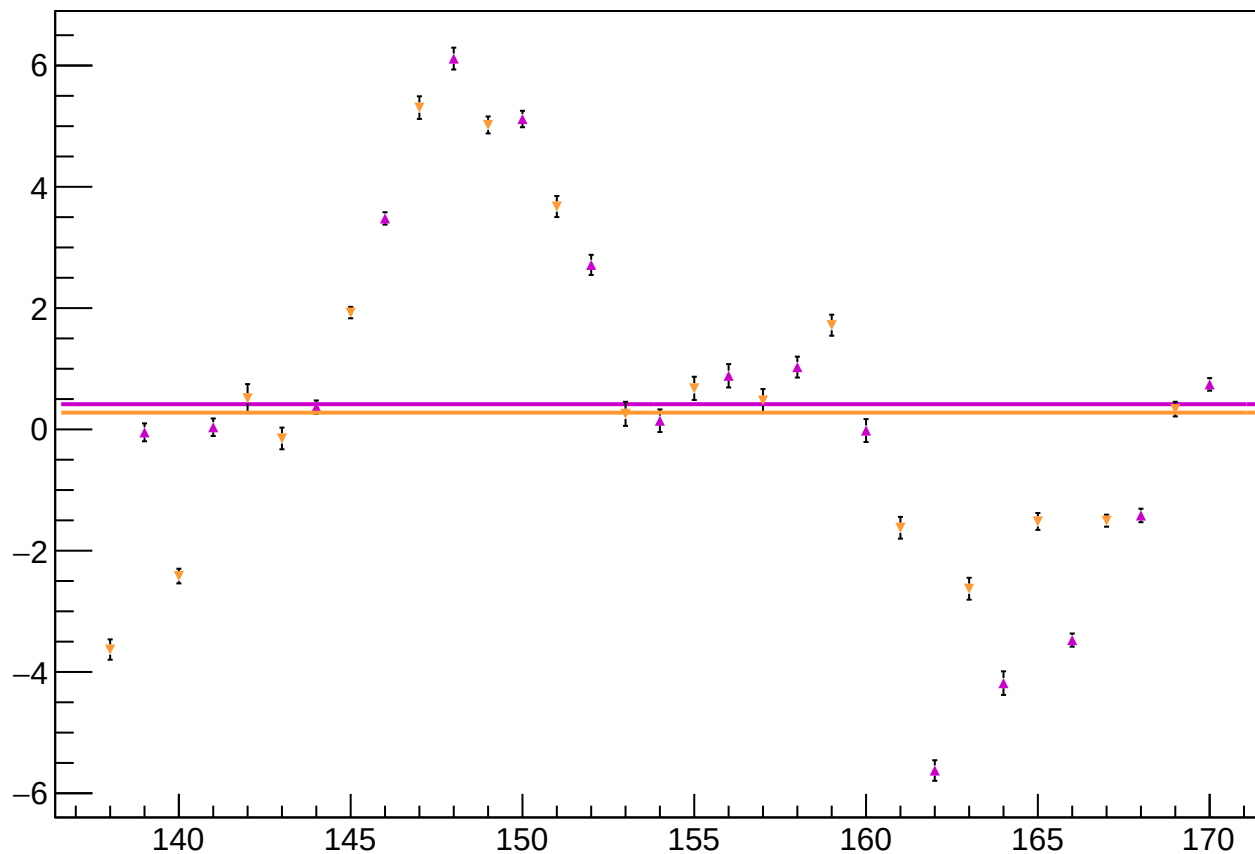
reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -0.266+/-0.004 χ^2/NDF : 740.3/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -0.253+/-0.004 χ^2/NDF : 1249.9/15

Left: -0.259+/-0.003 χ^2/NDF : 1996.2/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -0.253+/-0.004 χ^2/NDF : 1249.9/15
 Out: -0.266+/-0.004 χ^2/NDF : 740.3/16
 All: -0.259+/-0.003 χ^2/NDF : 1996.2/32

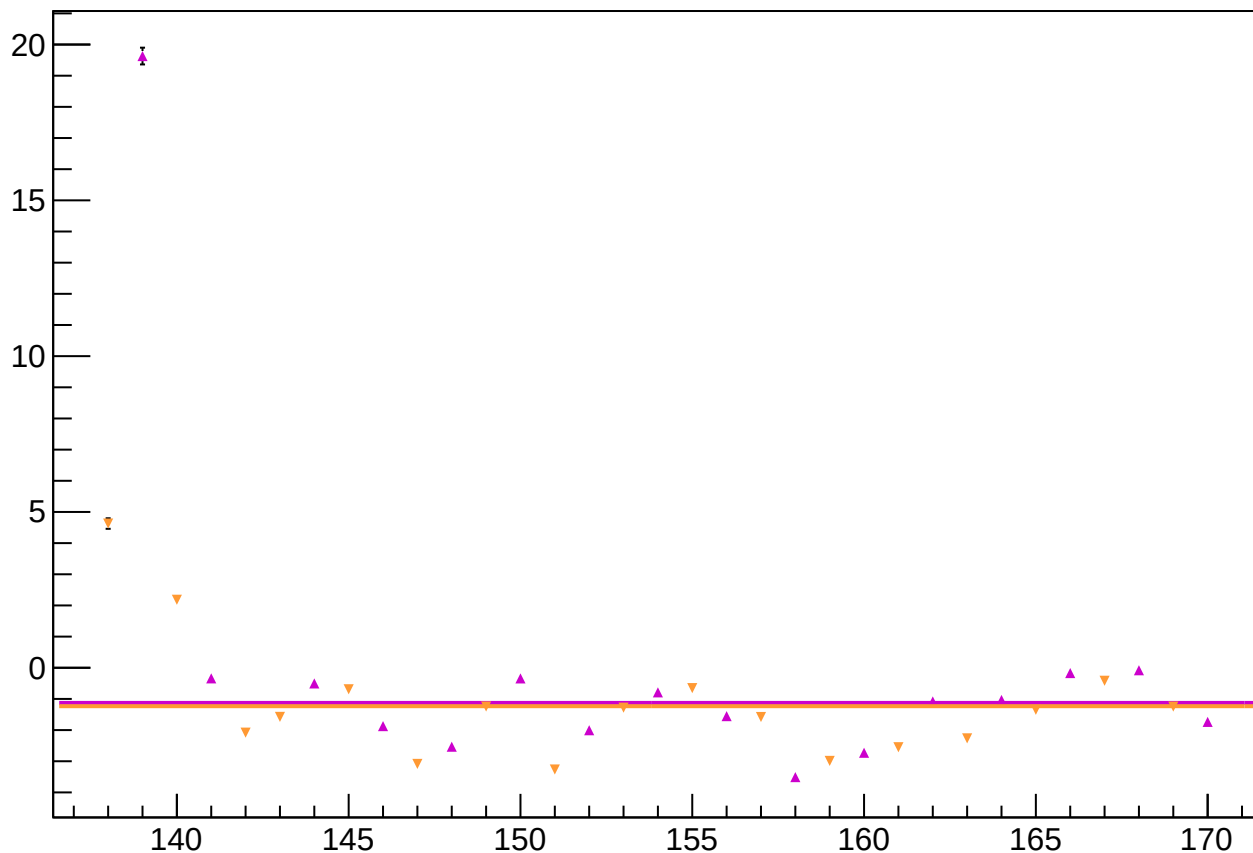
reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 +/- 0.000 χ^2/NDF : 0.0/0
 Left Out: 0.276 +/- 0.036 χ^2/NDF : 4545.6/16
 Right Out: 0.000 +/- 0.000 χ^2/NDF : 0.0/0
 Left In: 0.415 +/- 0.035 χ^2/NDF : 6712.7/15

Left: 0.348 +/- 0.025 χ^2/NDF : 11266.2/32
 Right: 0.000 +/- 0.000 χ^2/NDF : 0.0/0
 In: 0.415 +/- 0.035 χ^2/NDF : 6712.7/15
 Out: 0.276 +/- 0.036 χ^2/NDF : 4545.6/16
 All: 0.348 +/- 0.025 χ^2/NDF : 11266.2/32

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



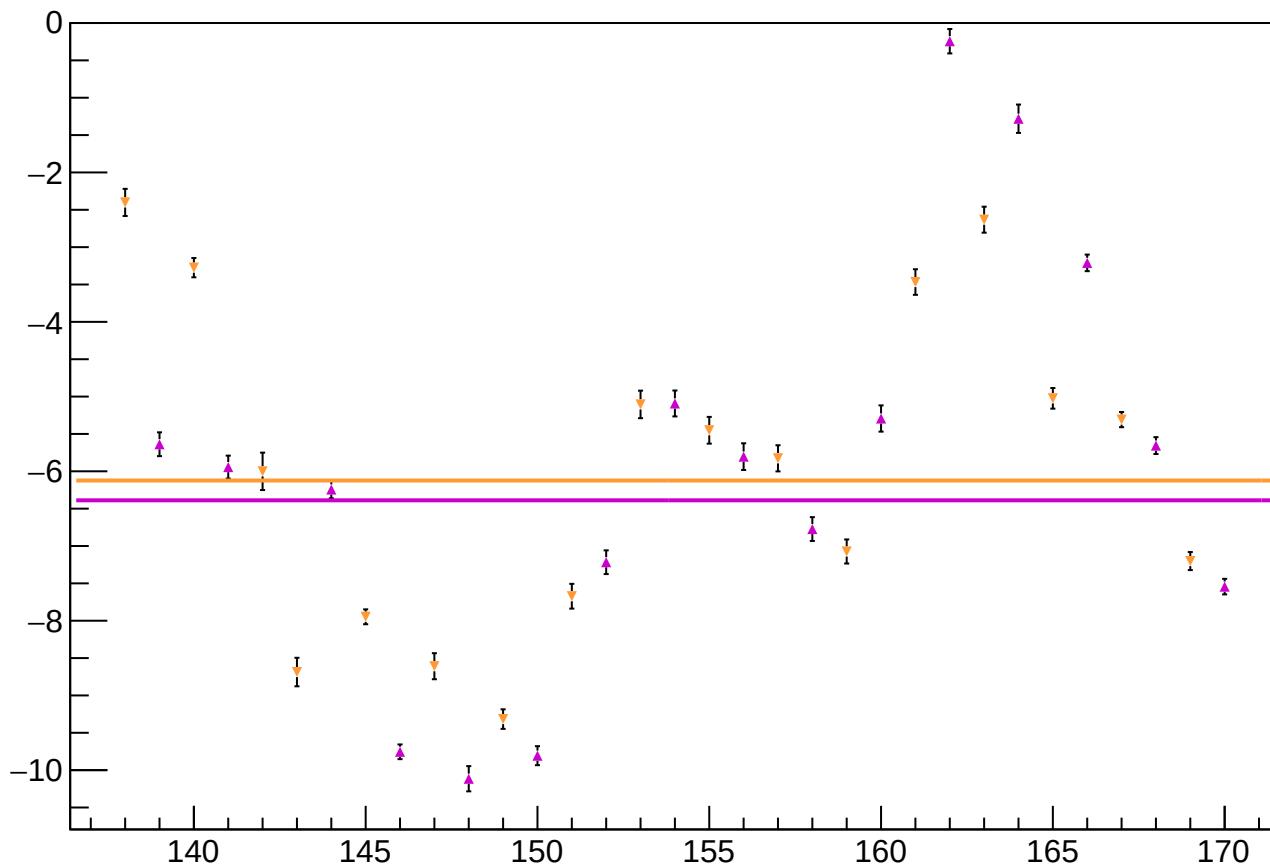
Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -1.233+/-0.026 χ^2/NDF : 3775.6/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -1.128+/-0.026 χ^2/NDF : 7436.9/15

Left: -1.179+/-0.018 χ^2/NDF : 11220.7/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -1.128+/-0.026 χ^2/NDF : 7436.9/15
 Out: -1.233+/-0.026 χ^2/NDF : 3775.6/16

All: -1.179+/-0.018 χ^2/NDF : 11220.7/32

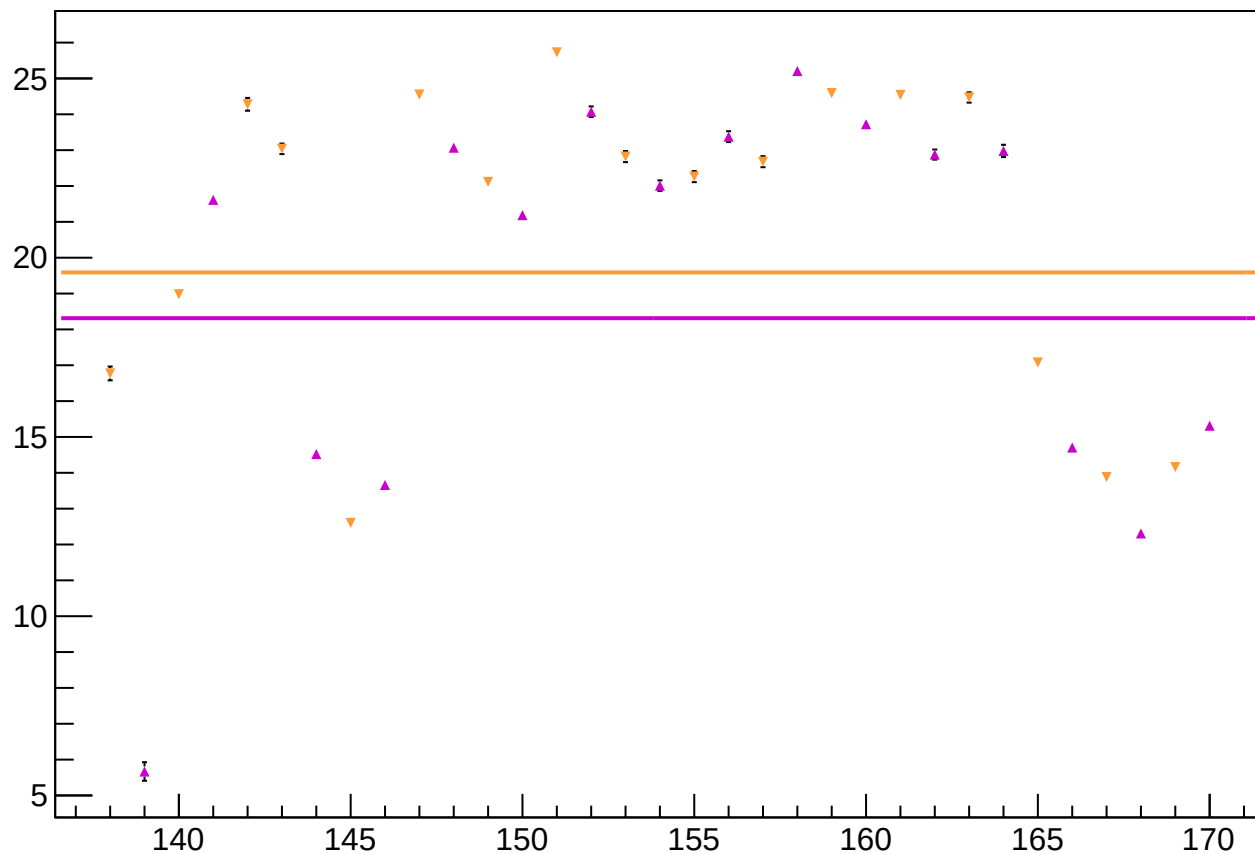
reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: -6.123 $\pm$ 0.036 χ^2 /NDF:3243.3/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: -6.389 $\pm$ 0.034 χ^2 /NDF:5675.4/15

Left: -6.262 $\pm$ 0.025 χ^2 /NDF: 8947.3/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: -6.389 $\pm$ 0.034 χ^2 /NDF:5675.4/15
 Out: -6.123 $\pm$ 0.036 χ^2 /NDF:3243.3/16
 All: -6.262 $\pm$ 0.025 χ^2 /NDF: 8947.3/32

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left Out: 19.590 $\pm$ 0.030 χ^2 /NDF:24606.1/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

Left In: 18.313 $\pm$ 0.030 χ^2 /NDF:25262.2/15

Left: 18.934 $\pm$ 0.021 χ^2 /NDF: 50778.6/32

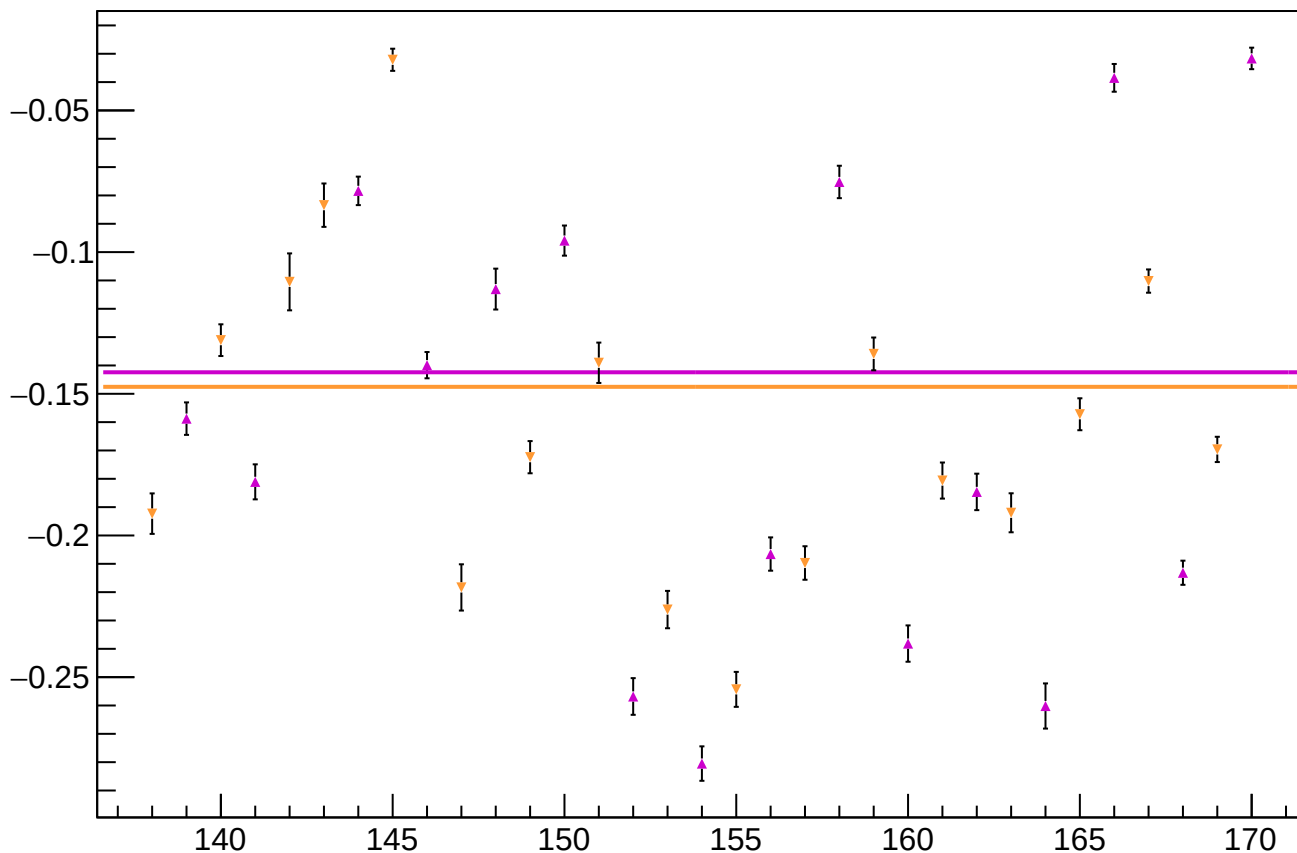
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0

In: 18.313 $\pm$ 0.030 χ^2 /NDF:25262.2/15

Out: 19.590 $\pm$ 0.030 χ^2 /NDF:24606.1/16

All: 18.934 $\pm$ 0.021 χ^2 /NDF: 50778.6/32

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -0.148+/-0.001 χ^2/NDF :1834.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -0.142+/-0.001 χ^2/NDF :3450.6/15

Left: -0.145+/-0.001 χ^2/NDF : 5292.2/32

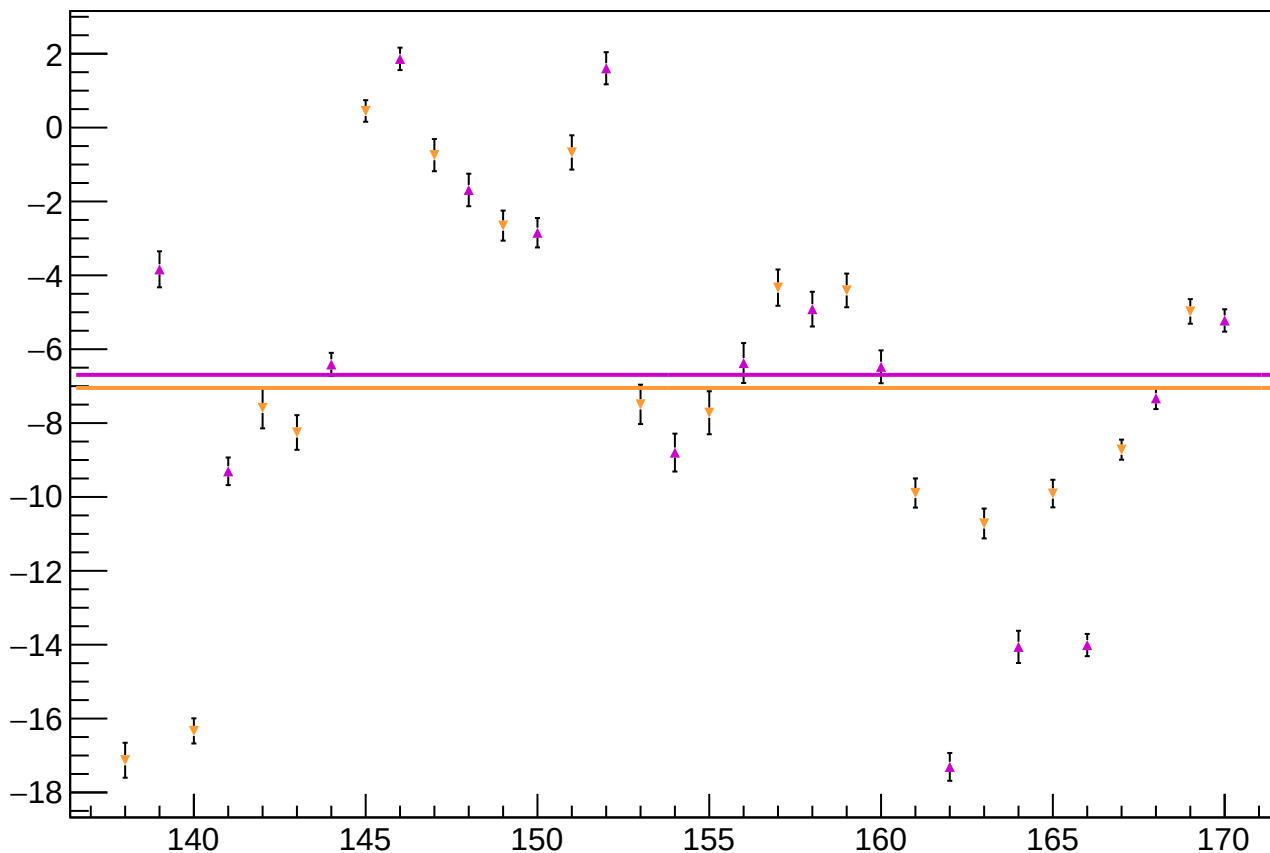
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -0.142+/-0.001 χ^2/NDF :3450.6/15

Out: -0.148+/-0.001 χ^2/NDF :1834.7/16

All: -0.145+/-0.001 χ^2/NDF : 5292.2/32

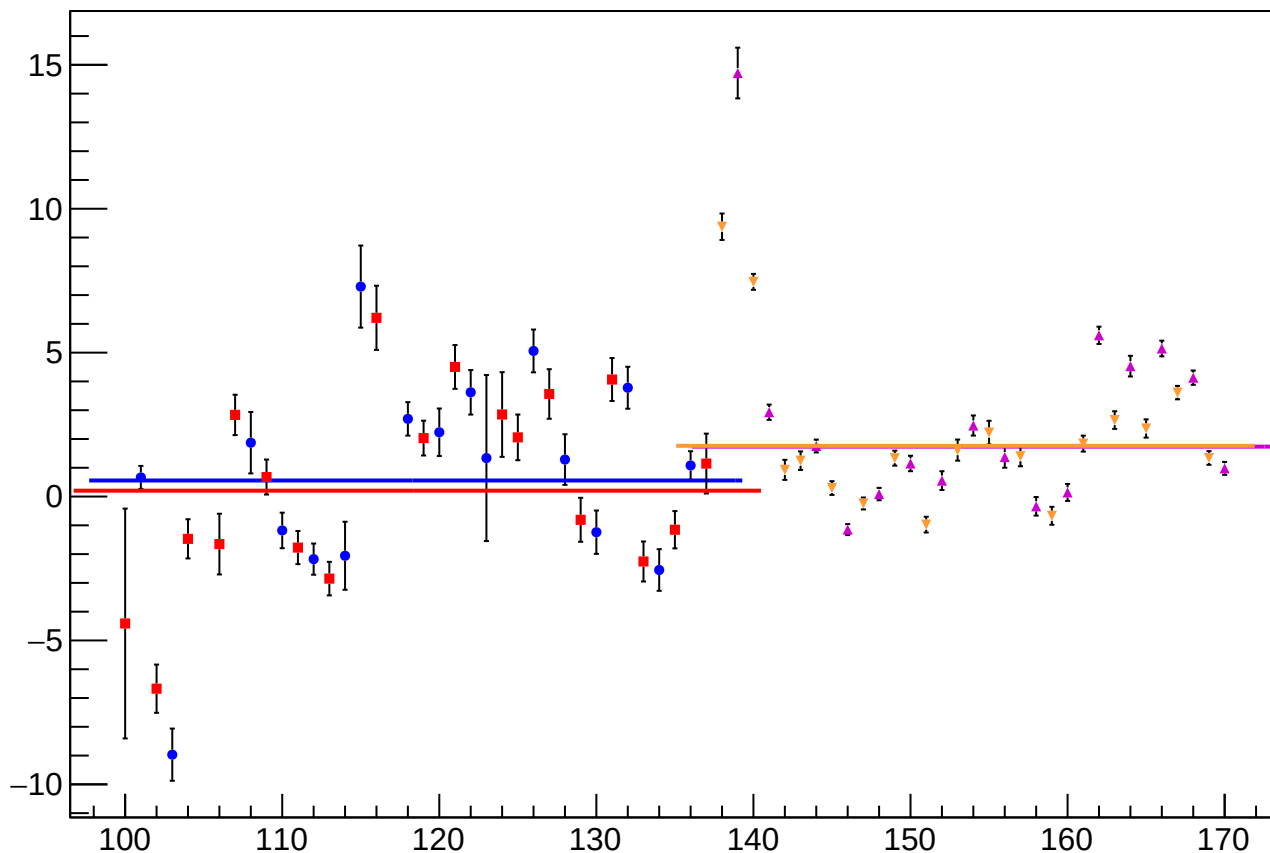
reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -7.048+/-0.097 χ^2/NDF :2716.8/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -6.694+/-0.095 χ^2/NDF :3193.7/15

Left: -6.867+/-0.068 χ^2/NDF : 5917.3/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: -6.694+/-0.095 χ^2/NDF :3193.7/15
 Out: -7.048+/-0.097 χ^2/NDF :2716.8/16
 All: -6.867+/-0.068 χ^2/NDF : 5917.3/32

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.558 ± 0.170 χ^2/NDF : 287.9/16

Left Out: 1.763 ± 0.070 χ^2/NDF : 1083.6/16

Right Out: 0.204 ± 0.175 χ^2/NDF : 272.1/18

Left In: 1.735 ± 0.069 χ^2/NDF : 1105.5/15

Left: 1.749 ± 0.049 χ^2/NDF : 2189.2/32

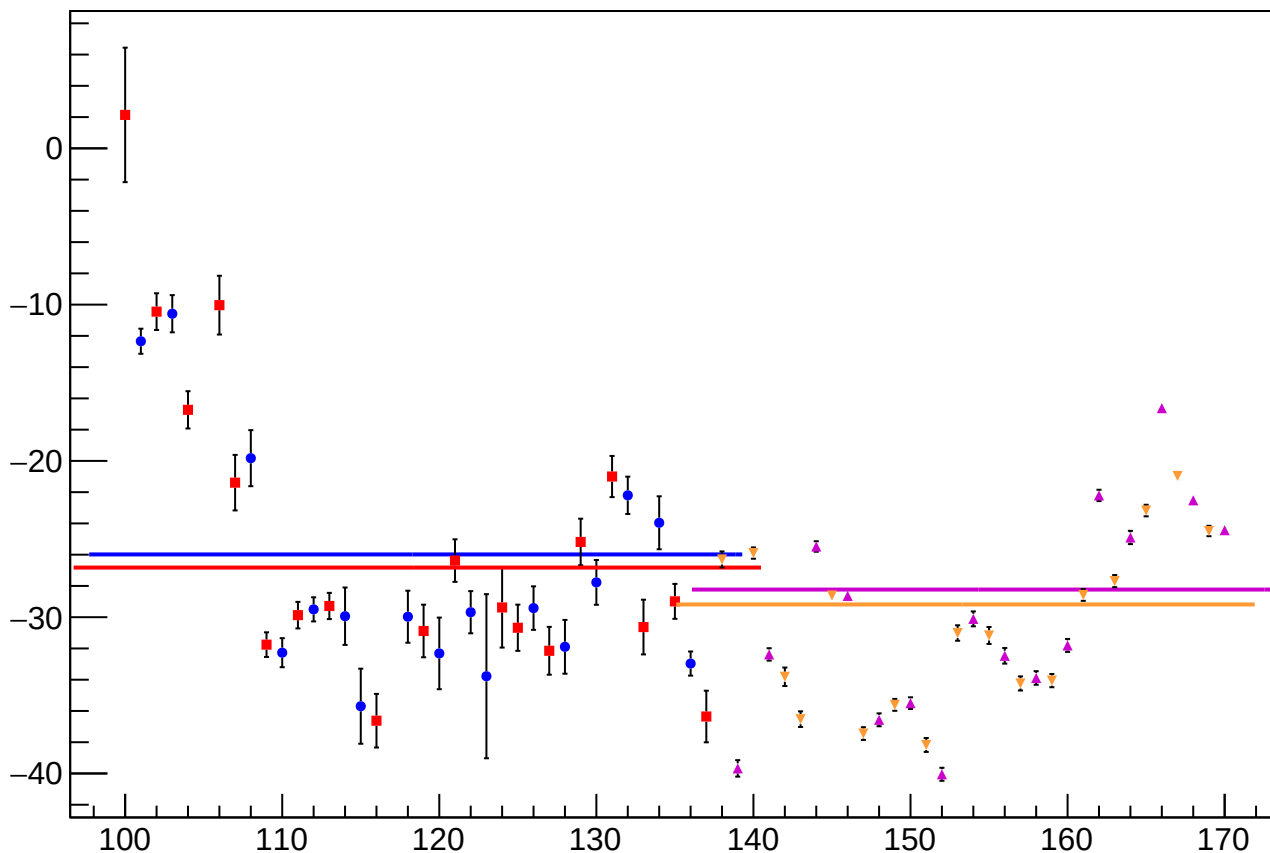
Right: 0.386 ± 0.122 χ^2/NDF : 562.1/35

In: 1.570 ± 0.064 χ^2/NDF : 1434.6/32

Out: 1.549 ± 0.065 χ^2/NDF : 1424.5/35

All: 1.560 ± 0.045 χ^2/NDF : 2859.1/68

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -25.984 ± 0.300 χ^2/NDF : 691.5/16

Left Out: -29.186 ± 0.096 χ^2/NDF : 3140.9/16

Right Out: -26.825 ± 0.298 χ^2/NDF : 581.6/18

Left In: -28.232 ± 0.093 χ^2/NDF : 4866.6/15

Left: -28.693 ± 0.067 χ^2/NDF : 8058.0/32

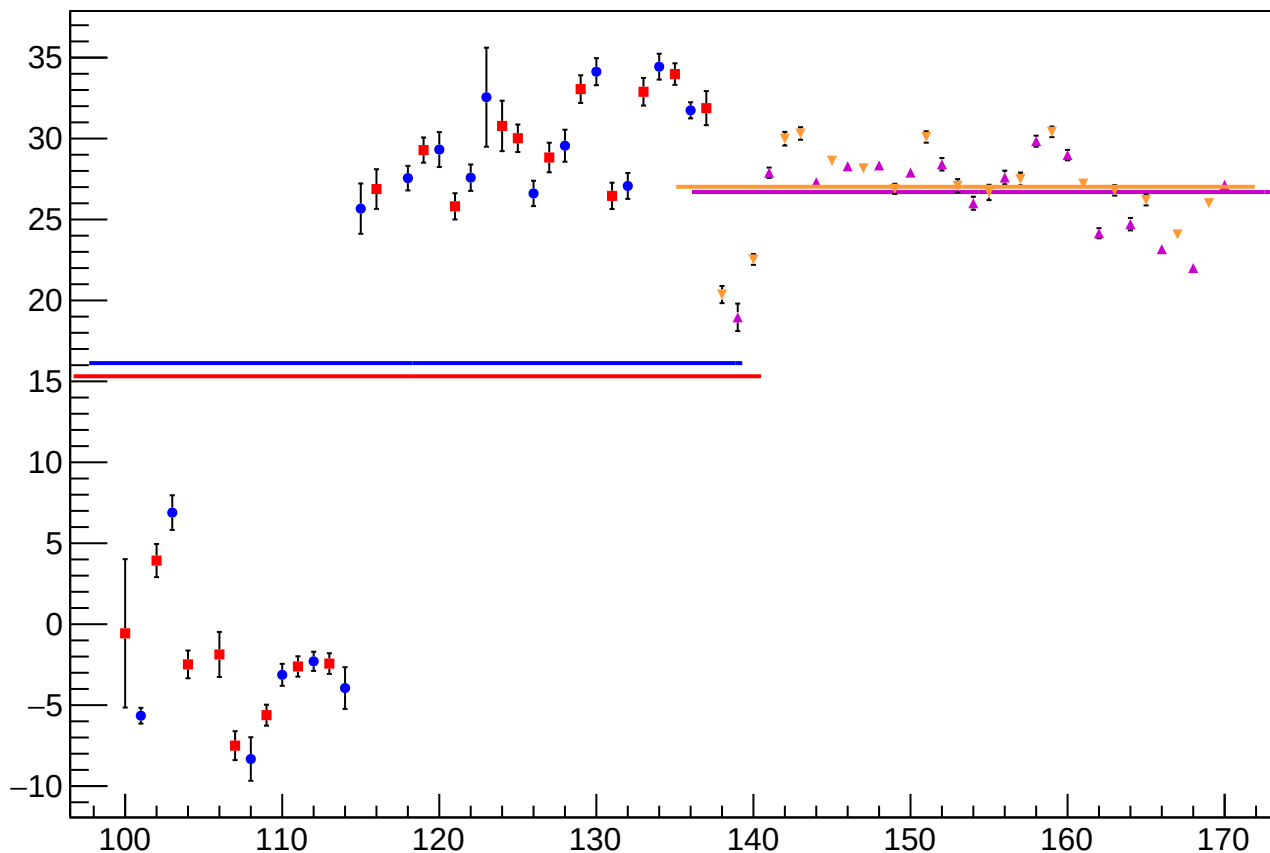
Right: -26.408 ± 0.211 χ^2/NDF : 1277.0/35

In: -28.034 ± 0.089 χ^2/NDF : 5609.2/32

Out: -28.961 ± 0.092 χ^2/NDF : 3779.4/35

All: -28.484 ± 0.064 χ^2/NDF : 9441.1/68

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 16.129 $\pm$ 0.192 χ^2 /NDF: 7572.5/16

Left Out: 27.022 $\pm$ 0.081 χ^2 /NDF:849.8/16

Right Out: 15.315 $\pm$ 0.197 χ^2 /NDF: 7278.1/18

Left In: 26.696 $\pm$ 0.079 χ^2 /NDF:862.0/15

Left: 26.856 $\pm$ 0.057 χ^2 /NDF: 1720.1/32

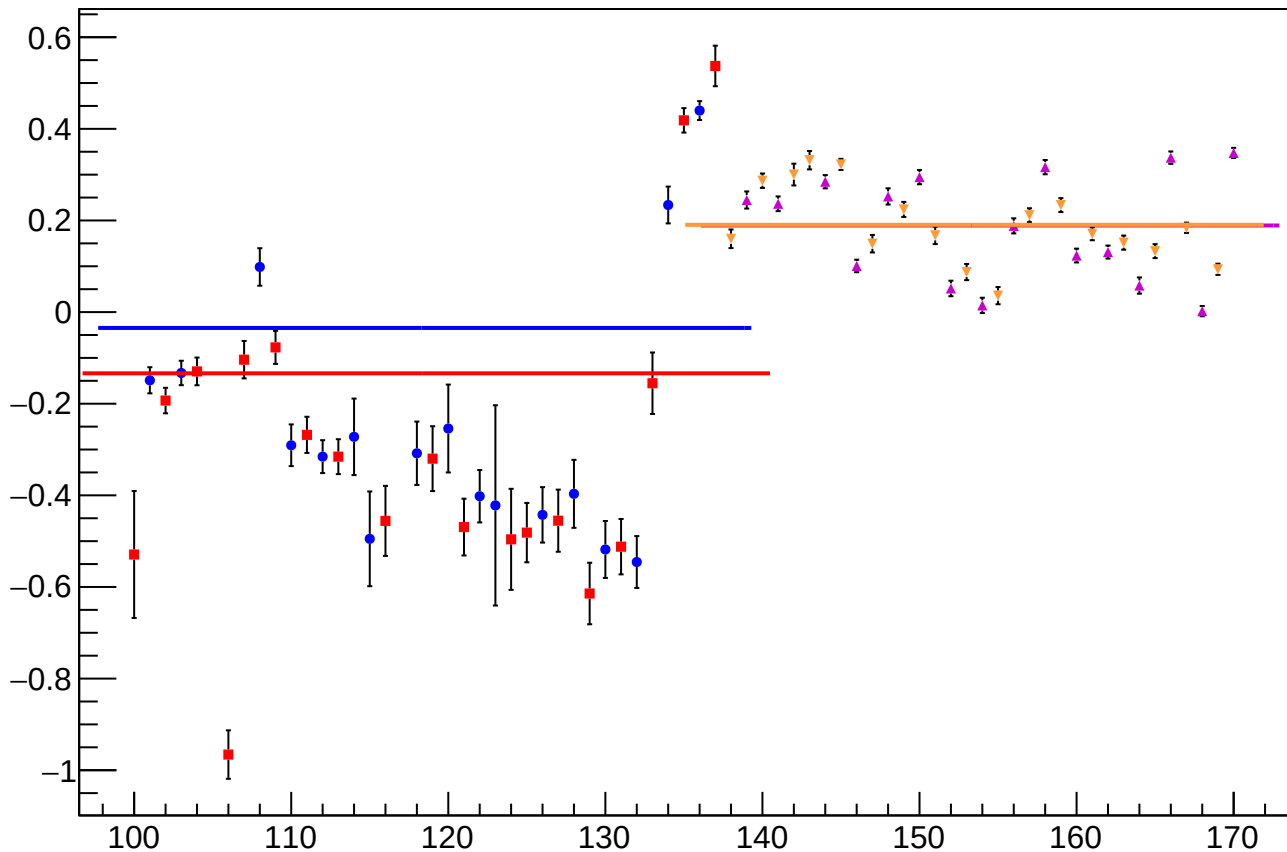
Right: 15.732 $\pm$ 0.138 χ^2 /NDF: 14859.4/35

In: 25.153 $\pm$ 0.073 χ^2 /NDF:11019.6/32

Out: 25.339 $\pm$ 0.075 χ^2 /NDF:11151.1/35

All: 25.244 $\pm$ 0.052 χ^2 /NDF: 22173.9/68

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.035 ± 0.010 χ^2/NDF : 1011.6/16

Left Out: 0.191 ± 0.004 χ^2/NDF : 435.5/16

Right Out: -0.134 ± 0.010 χ^2/NDF : 1161.9/18

Left In: 0.189 ± 0.004 χ^2/NDF : 1096.2/15

Left: 0.190 ± 0.003 χ^2/NDF : 1531.8/32

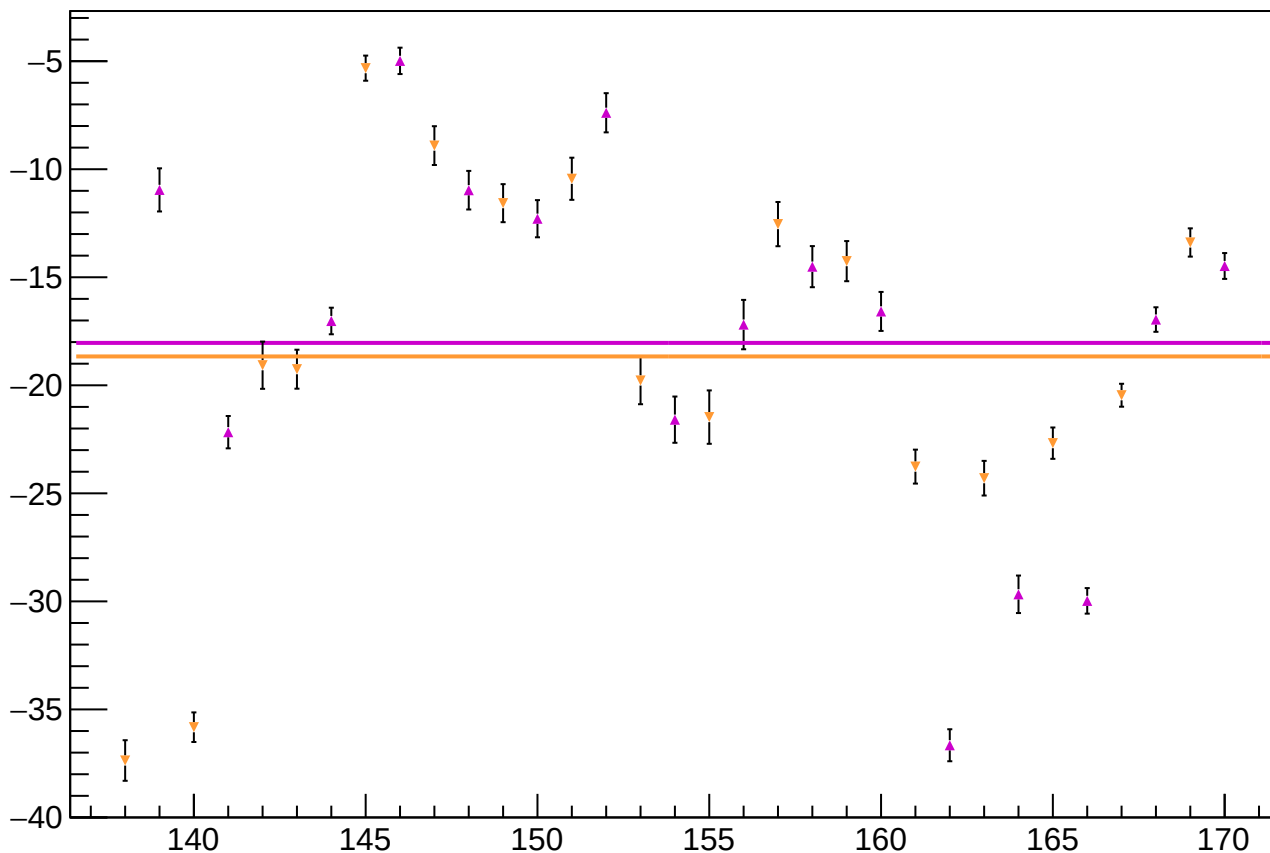
Right: -0.084 ± 0.007 χ^2/NDF : 2219.2/35

In: 0.164 ± 0.003 χ^2/NDF : 2523.0/32

Out: 0.152 ± 0.004 χ^2/NDF : 2458.5/35

All: 0.158 ± 0.002 χ^2/NDF : 4986.7/68

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



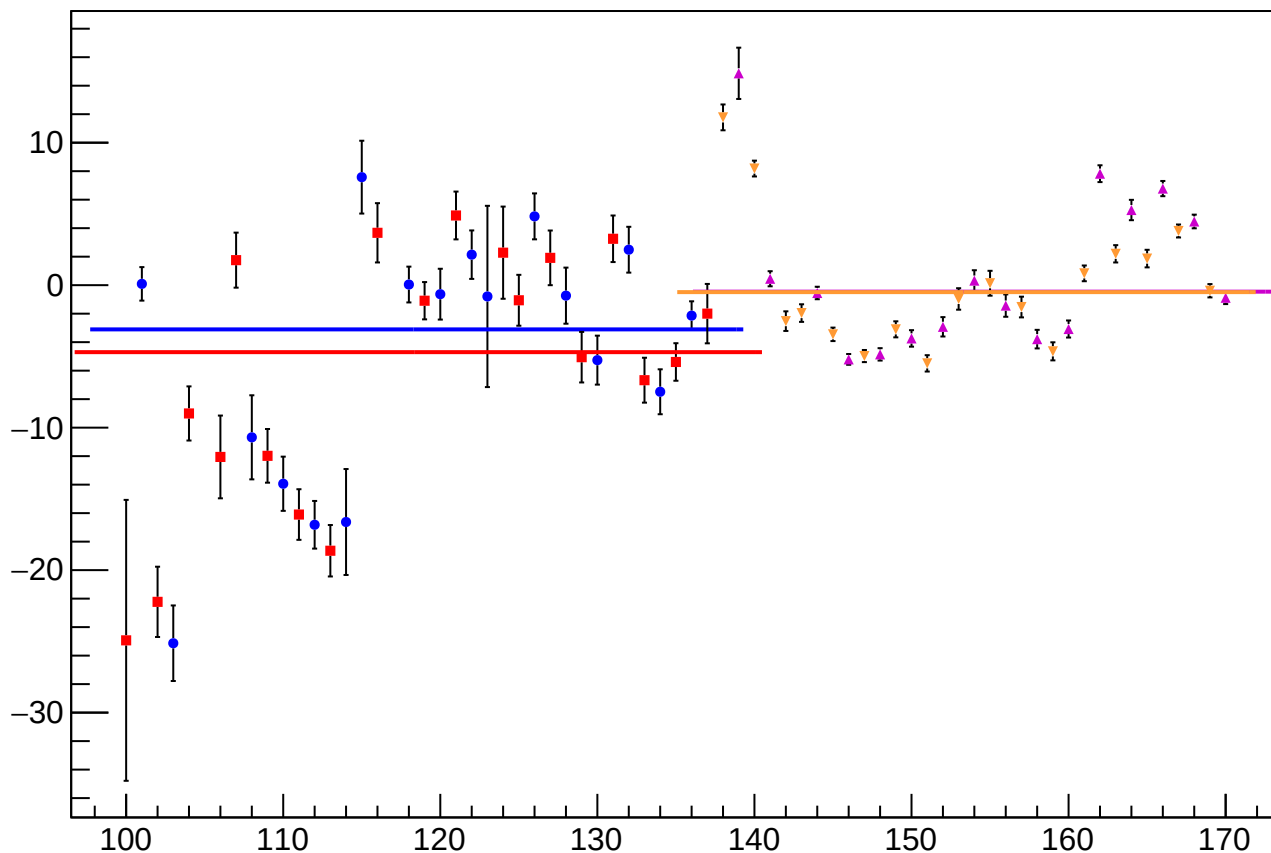
Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -18.664+/-0.195 χ^2/NDF :2068.4/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -18.038+/-0.190 χ^2/NDF :2072.1/15

Left: -18.343+/-0.136 χ^2/NDF : 4145.8/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -18.038+/-0.190 χ^2/NDF :2072.1/15
 Out: -18.664+/-0.195 χ^2/NDF :2068.4/16

All: -18.343+/-0.136 χ^2/NDF : 4145.8/32

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.104 ± 0.411 $\chi^2/\text{NDF}: 279.1/16$

Left Out: -0.488 ± 0.140 $\chi^2/\text{NDF}: 863.7/16$

Right Out: -4.701 ± 0.427 $\chi^2/\text{NDF}: 297.6/18$

Left In: -0.456 ± 0.137 $\chi^2/\text{NDF}: 980.4/15$

Left: -0.471 ± 0.098 $\chi^2/\text{NDF}: 1844.2/32$

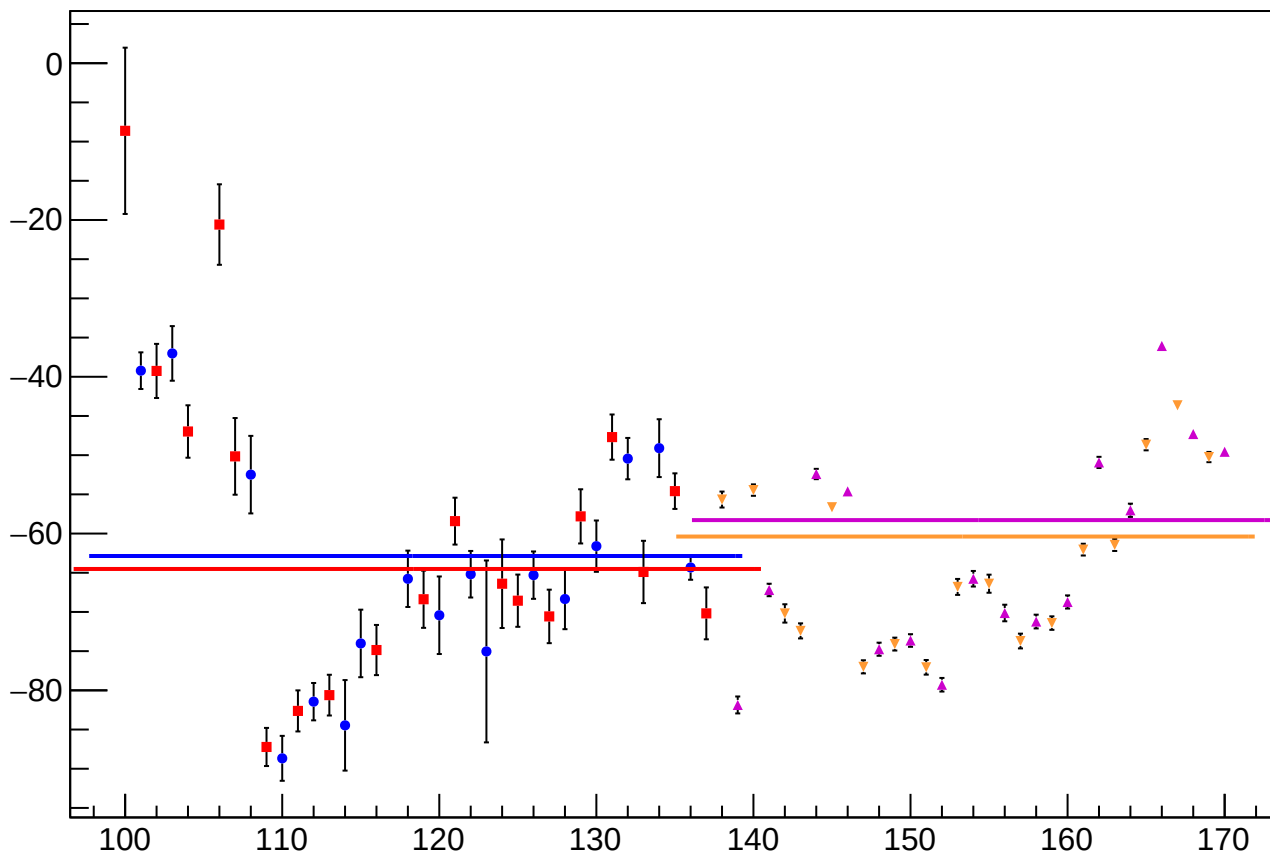
Right: -3.873 ± 0.296 $\chi^2/\text{NDF}: 584.0/35$

In: -0.722 ± 0.130 $\chi^2/\text{NDF}: 1296.9/32$

Out: -0.899 ± 0.133 $\chi^2/\text{NDF}: 1249.4/35$

All: -0.809 ± 0.093 $\chi^2/\text{NDF}: 2547.2/68$

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -62.863 ± 0.741 χ^2/NDF : 368.7/16

Left Out: -60.380 ± 0.194 χ^2/NDF : 3234.3/16

Right Out: -64.517 ± 0.752 χ^2/NDF : 444.3/18

Left In: -58.284 ± 0.187 χ^2/NDF : 4656.7/15

Left: -59.296 ± 0.135 χ^2/NDF : 7951.5/32

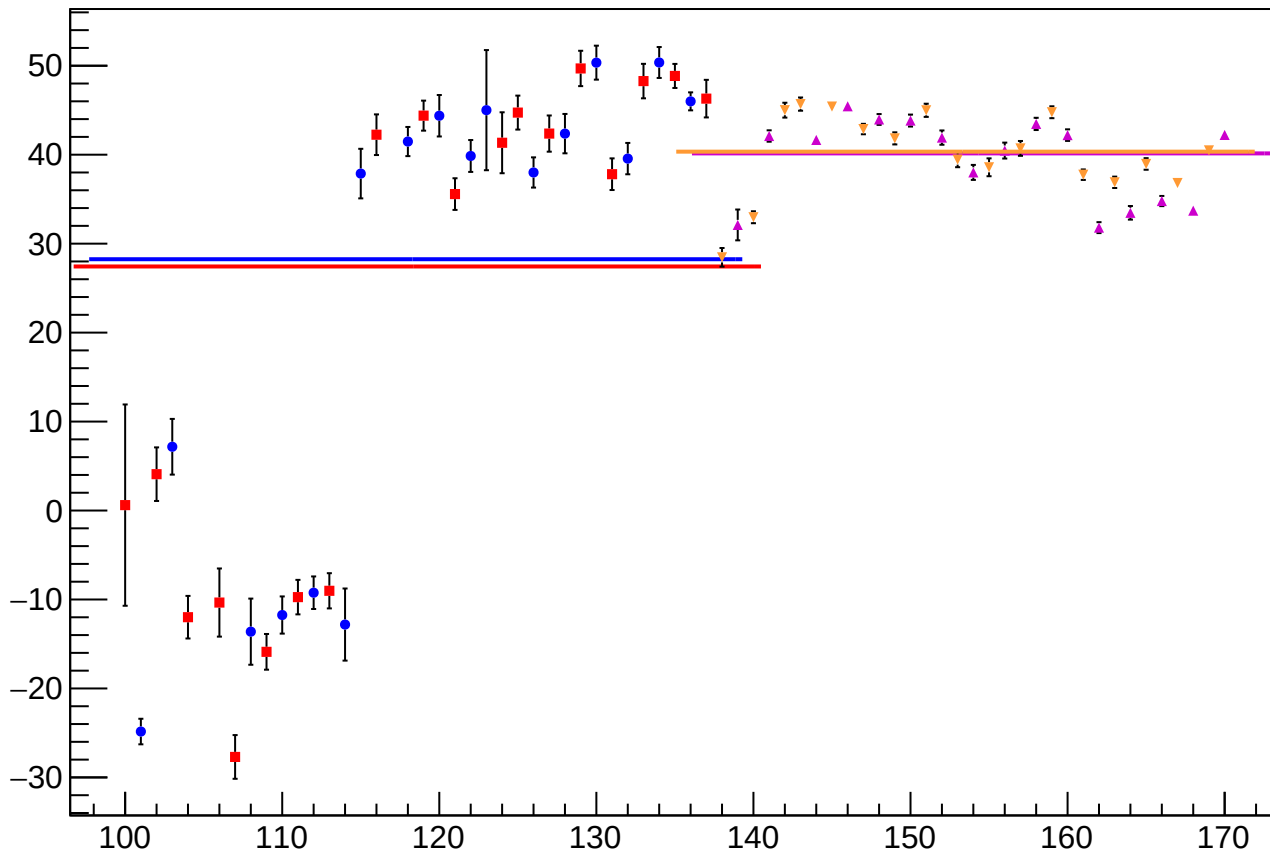
Right: -63.677 ± 0.528 χ^2/NDF : 815.4/35

In: -58.559 ± 0.182 χ^2/NDF : 5061.3/32

Out: -60.638 ± 0.188 χ^2/NDF : 3706.9/35

All: -59.564 ± 0.131 χ^2/NDF : 8831.6/68

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.250 $\pm$ 0.460 χ^2 /NDF: 3319.5/16

Left Out: 40.342 $\pm$ 0.162 χ^2 /NDF:632.6/16

Right Out: 27.435 $\pm$ 0.479 χ^2 /NDF: 3032.4/18

Left In: 40.145 $\pm$ 0.159 χ^2 /NDF:776.6/15

Left: 40.242 $\pm$ 0.114 χ^2 /NDF: 1409.9/32

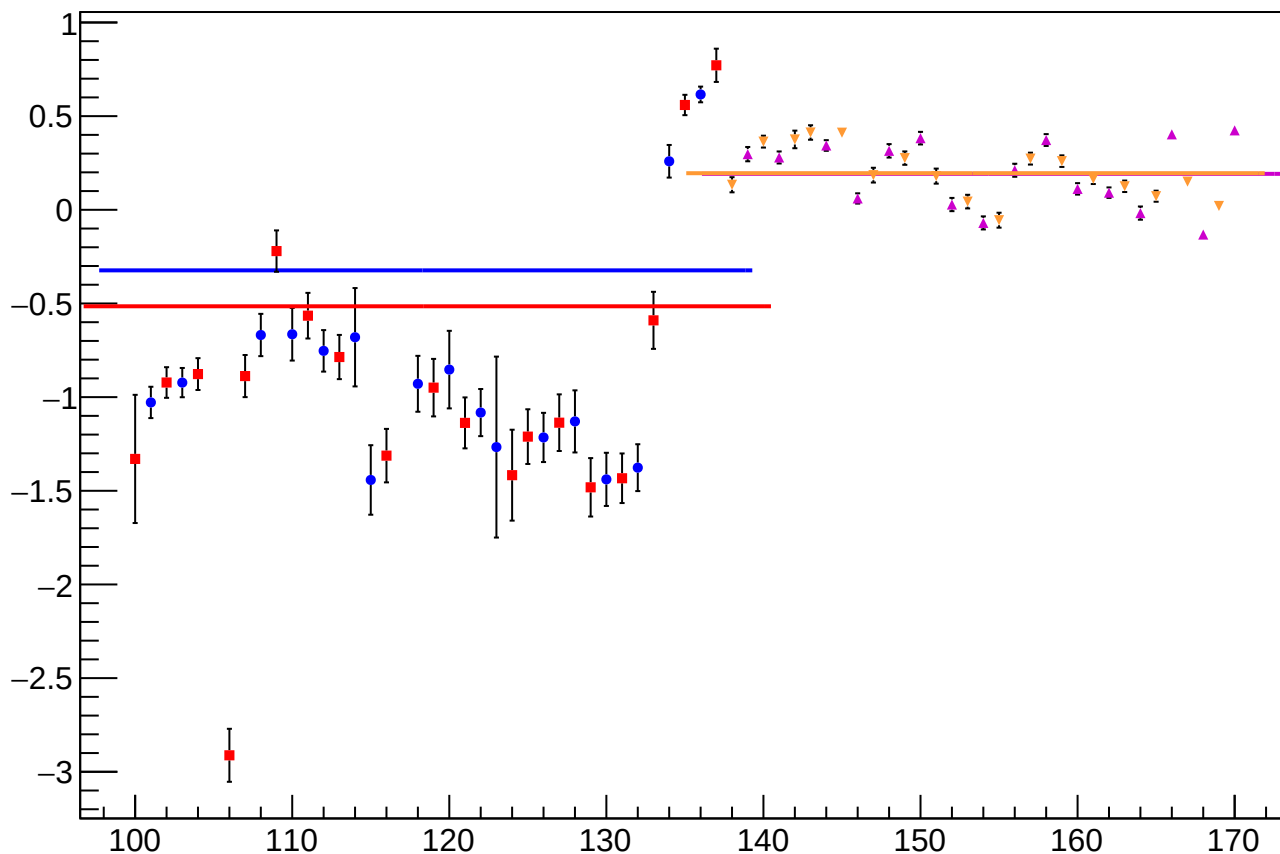
Right: 27.859 $\pm$ 0.332 χ^2 /NDF: 6353.5/35

In: 38.872 $\pm$ 0.151 χ^2 /NDF:4693.0/32

Out: 39.012 $\pm$ 0.154 χ^2 /NDF:4316.9/35

All: 38.940 $\pm$ 0.108 χ^2 /NDF: 9010.3/68

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.323±/0.025 χ^2/NDF : 1010.8/16

Left Out: 0.195±/0.008 χ^2/NDF :309.1/16

Right Out: -0.515±/0.026 χ^2/NDF : 1160.9/18

Left In: 0.192±/0.007 χ^2/NDF :673.6/15

Left: 0.194±/0.005 χ^2/NDF : 982.8/32

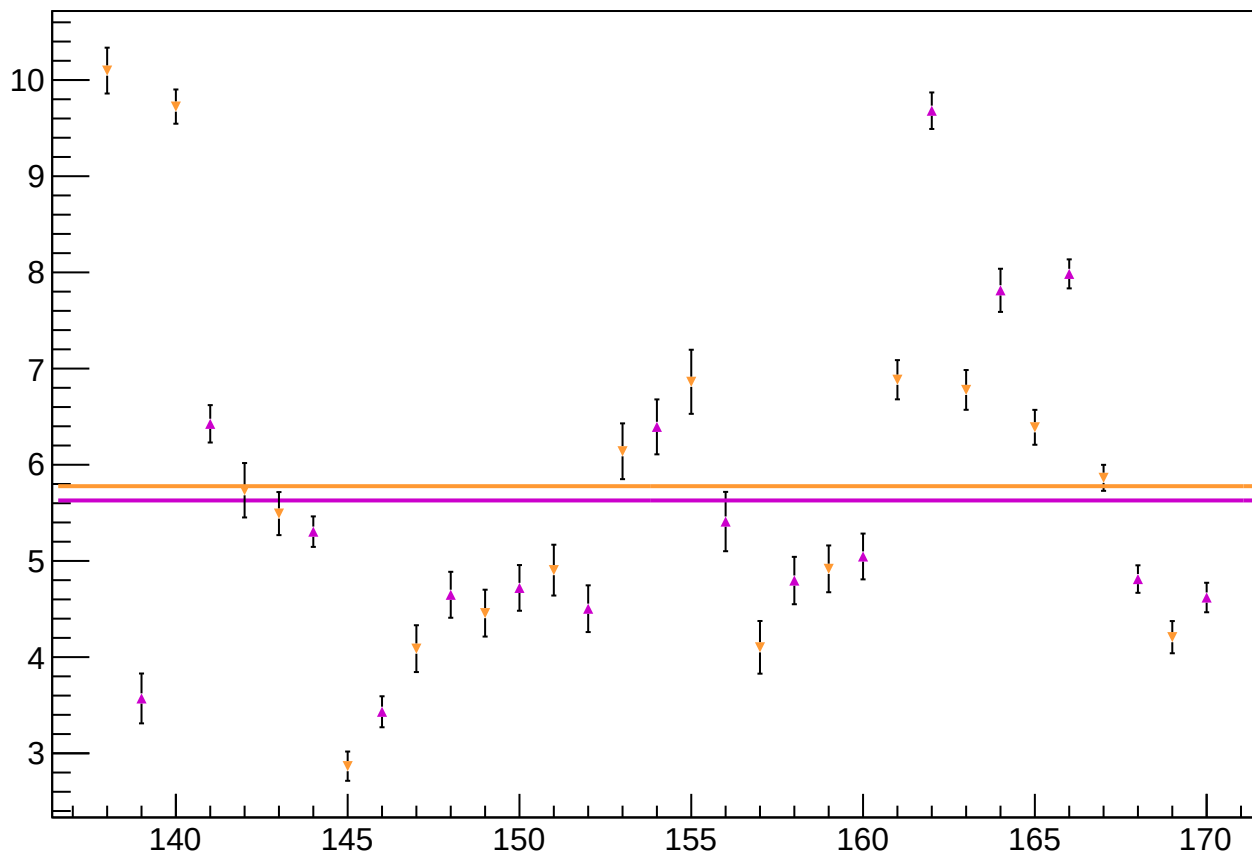
Right: -0.416±/0.018 χ^2/NDF : 2200.2/35

In: 0.150±/0.007 χ^2/NDF :2075.8/32

Out: 0.138±/0.007 χ^2/NDF :2169.2/35

All: 0.144±/0.005 χ^2/NDF : 4246.4/68

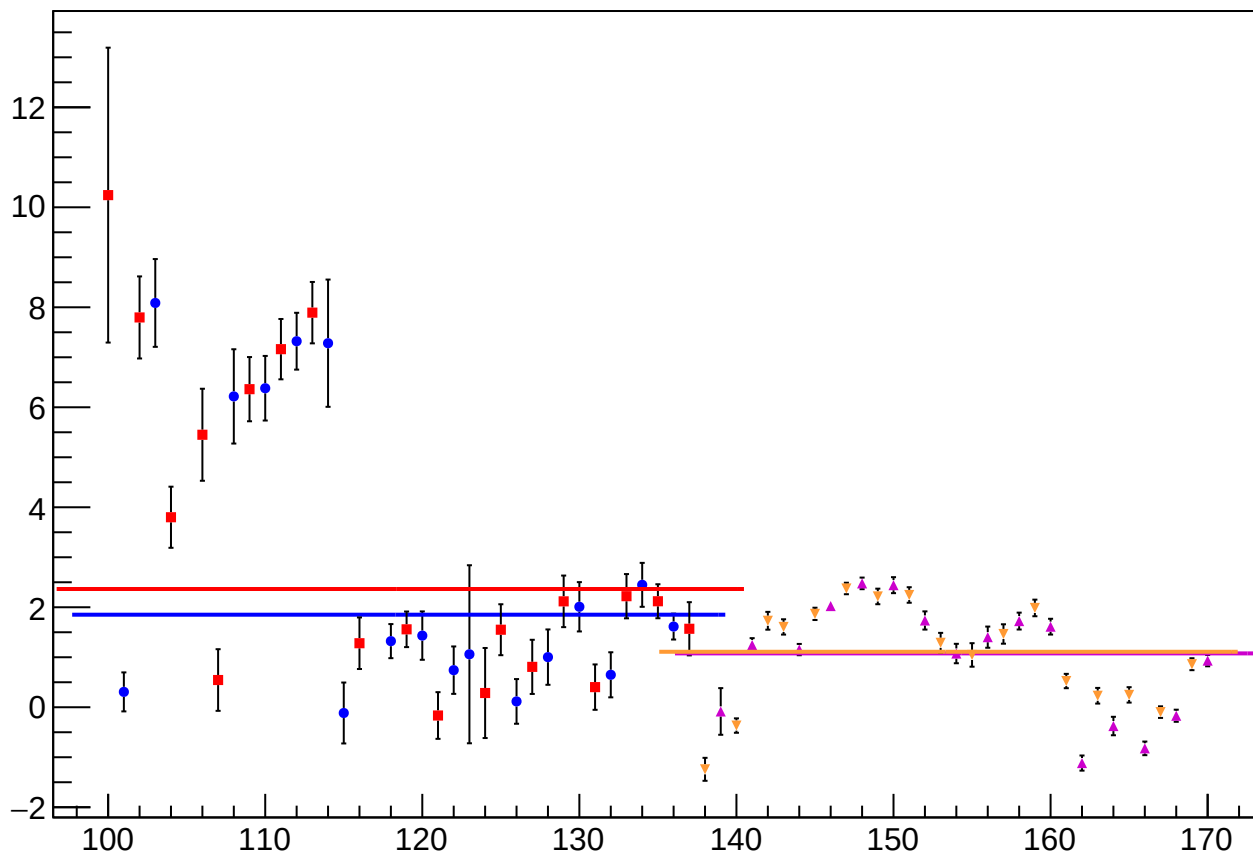
reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 5.777+/-0.050 χ^2/NDF :1491.0/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 5.629+/-0.049 χ^2/NDF :1218.0/15

Left: 5.701+/-0.035 χ^2/NDF : 2713.4/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0
 In: 5.629+/-0.049 χ^2/NDF :1218.0/15
 Out: 5.777+/-0.050 χ^2/NDF :1491.0/16
 All: 5.701+/-0.035 χ^2/NDF : 2713.4/32

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.851 ± 0.117 $\chi^2/\text{NDF}: 294.2/16$

Left Out: 1.110 ± 0.037 $\chi^2/\text{NDF}: 719.2/16$

Right Out: 2.365 ± 0.123 $\chi^2/\text{NDF}: 336.2/18$

Left In: 1.077 ± 0.036 $\chi^2/\text{NDF}: 935.6/15$

Left: 1.093 ± 0.026 $\chi^2/\text{NDF}: 1655.2/32$

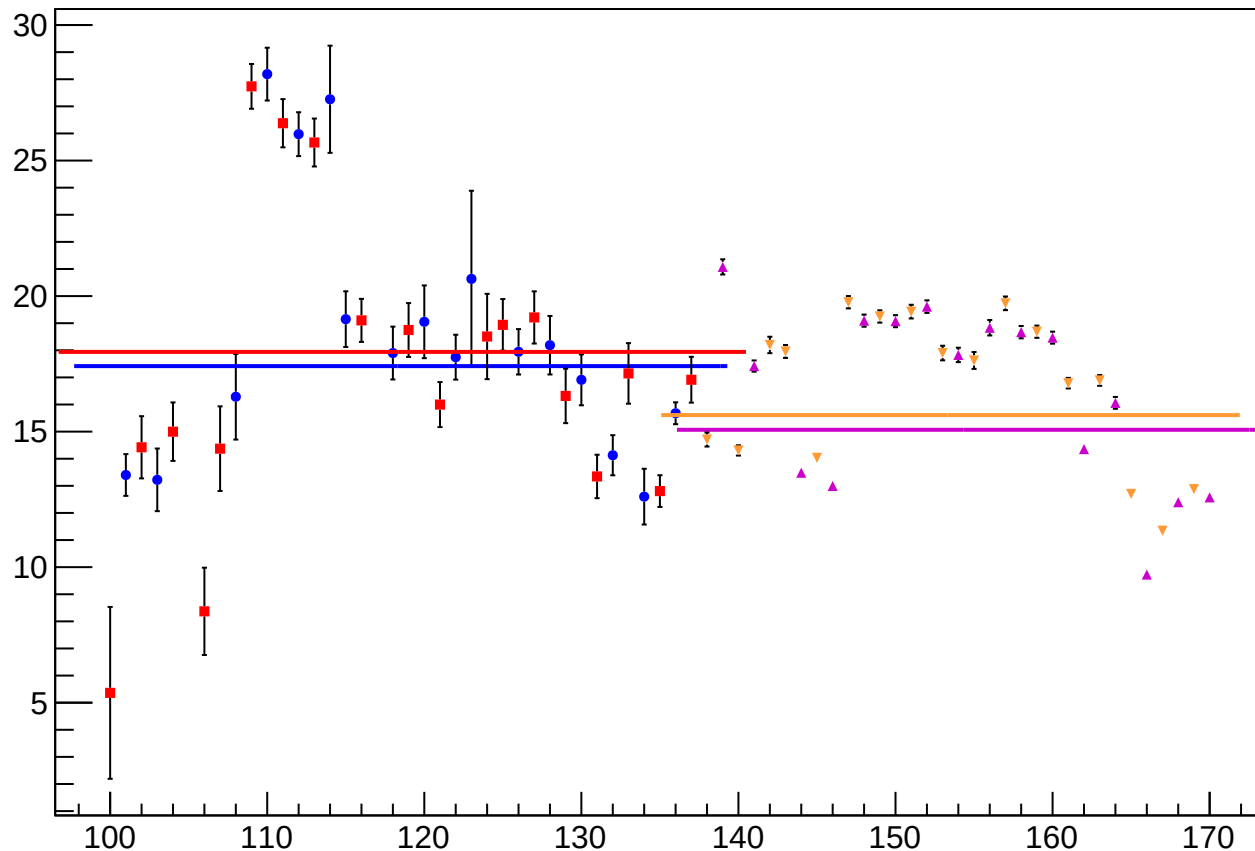
Right: 2.097 ± 0.085 $\chi^2/\text{NDF}: 639.6/35$

In: 1.143 ± 0.034 $\chi^2/\text{NDF}: 1269.6/32$

Out: 1.212 ± 0.035 $\chi^2/\text{NDF}: 1151.8/35$

All: 1.177 ± 0.024 $\chi^2/\text{NDF}: 2423.4/68$

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 17.417 $\pm$ 0.213 χ^2 /NDF: 367.0/16

Left Out: 15.611 $\pm$ 0.050 χ^2 /NDF:3266.2/16

Right Out: 17.941 $\pm$ 0.219 χ^2 /NDF: 505.6/18

Left In: 15.068 $\pm$ 0.049 χ^2 /NDF:4501.3/15

Left: 15.330 $\pm$ 0.035 χ^2 /NDF: 7827.5/32

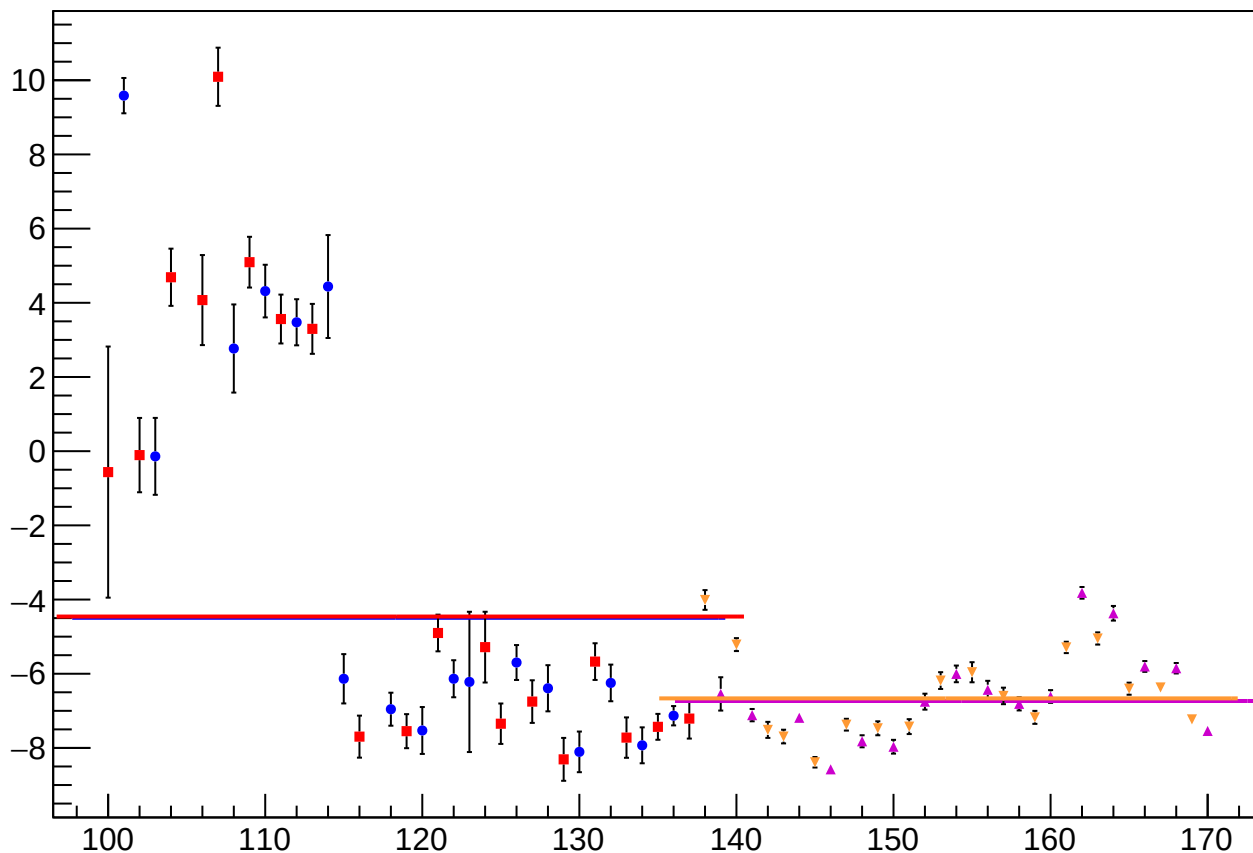
Right: 17.671 $\pm$ 0.153 χ^2 /NDF: 875.6/35

In: 15.185 $\pm$ 0.048 χ^2 /NDF:4984.3/32

Out: 15.728 $\pm$ 0.049 χ^2 /NDF:3879.2/35

All: 15.447 $\pm$ 0.034 χ^2 /NDF: 8926.6/68

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.491 ± 0.130 χ^2/NDF : 1585.4/16

Left Out: -6.664 ± 0.042 χ^2/NDF : 637.1/16

Right Out: -4.458 ± 0.137 χ^2/NDF : 1338.9/18

Left In: -6.735 ± 0.041 χ^2/NDF : 946.2/15

Left: -6.700 ± 0.030 χ^2/NDF : 1584.7/32

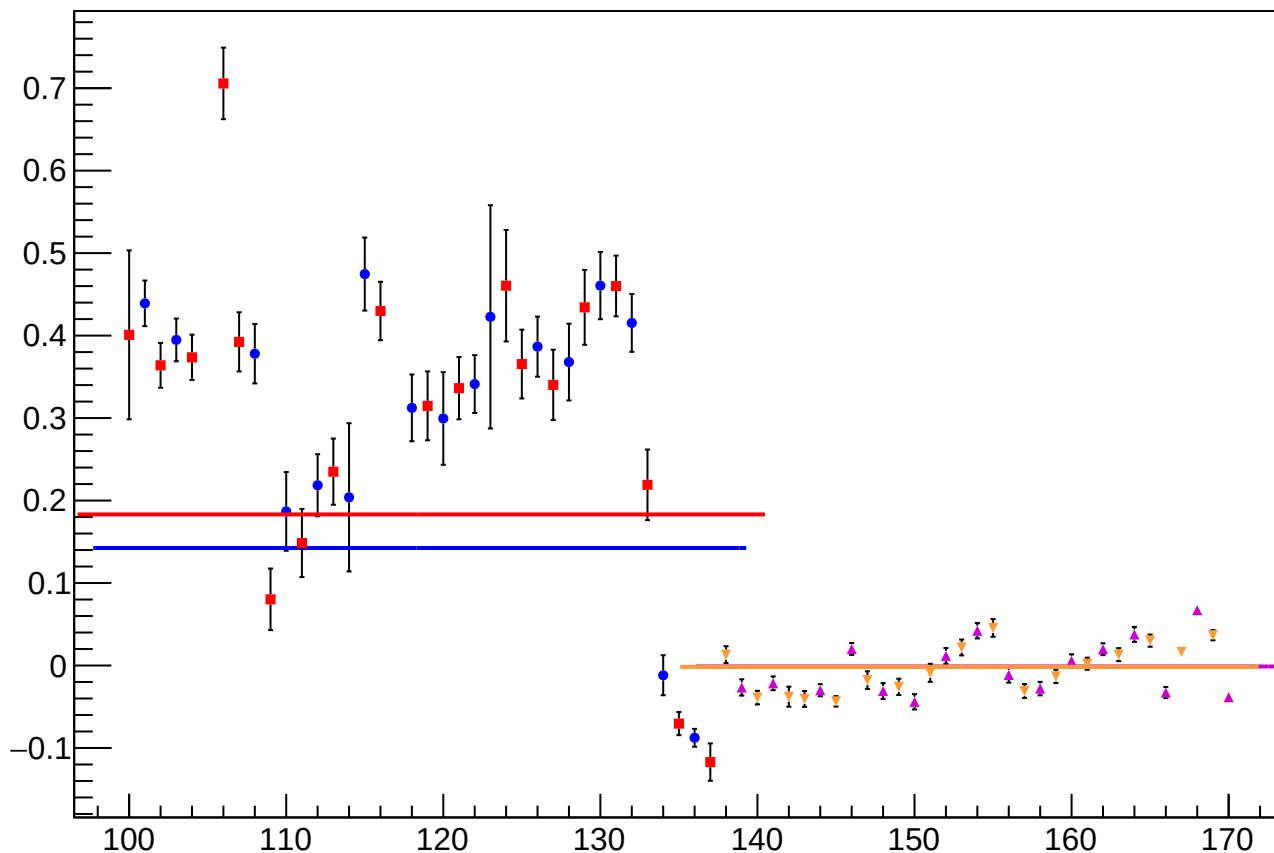
Right: -4.476 ± 0.094 χ^2/NDF : 2924.4/35

In: -6.529 ± 0.040 χ^2/NDF : 2800.2/32

Out: -6.473 ± 0.040 χ^2/NDF : 2212.8/35

All: -6.501 ± 0.028 χ^2/NDF : 5014.0/68

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.142 ± 0.007 $\chi^2/\text{NDF}: 1058.8/16$

Left Out: -0.002 ± 0.002 $\chi^2/\text{NDF}: 210.2/16$

Right Out: 0.183 ± 0.007 $\chi^2/\text{NDF}: 1000.9/18$

Left In: -0.001 ± 0.002 $\chi^2/\text{NDF}: 350.5/15$

Left: -0.001 ± 0.001 $\chi^2/\text{NDF}: 560.8/32$

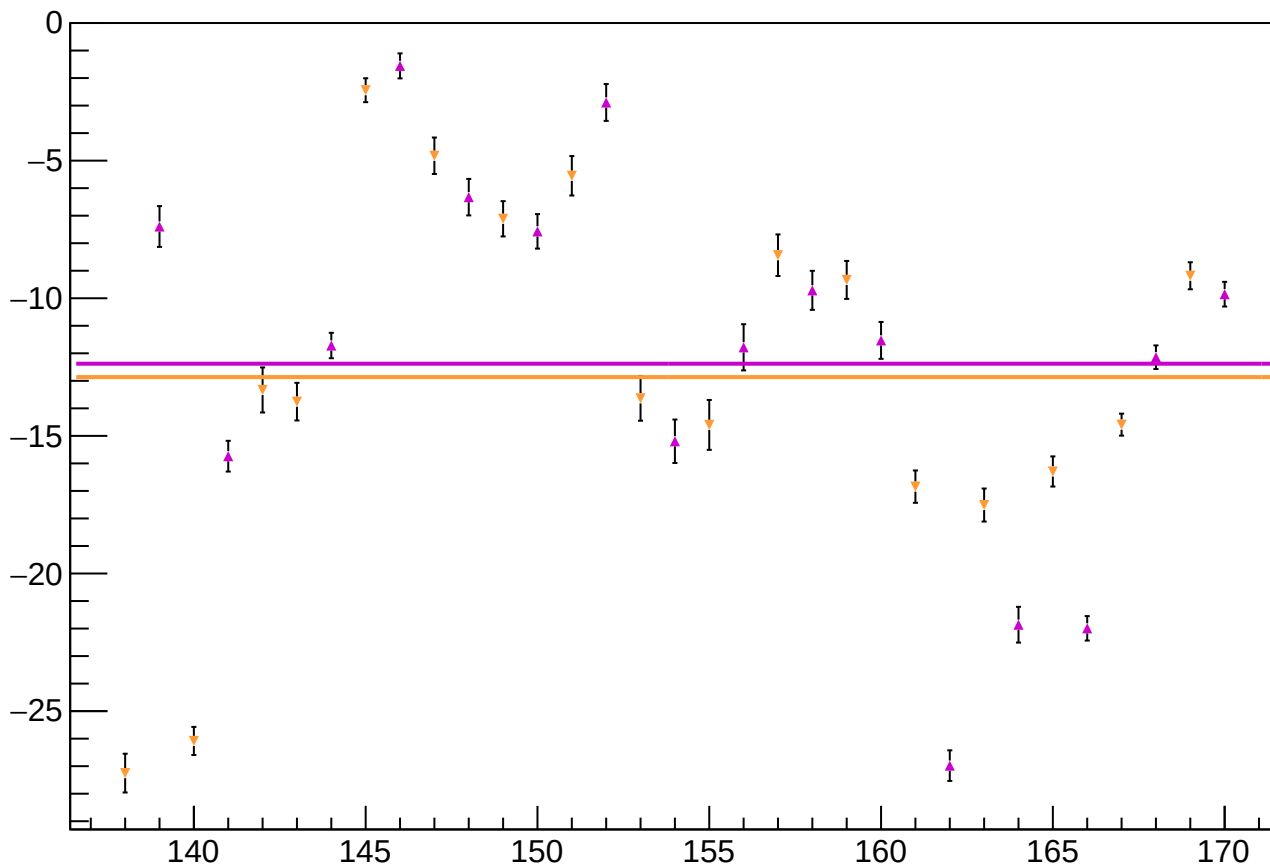
Right: 0.162 ± 0.005 $\chi^2/\text{NDF}: 2075.4/35$

In: 0.009 ± 0.002 $\chi^2/\text{NDF}: 1793.4/32$

Out: 0.011 ± 0.002 $\chi^2/\text{NDF}: 1791.9/35$

All: 0.010 ± 0.001 $\chi^2/\text{NDF}: 3585.8/68$

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -12.864+/-0.145 χ^2/NDF :2282.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -12.378+/-0.141 χ^2/NDF :2426.4/15

Left: -12.615+/-0.101 χ^2/NDF : 4714.9/32

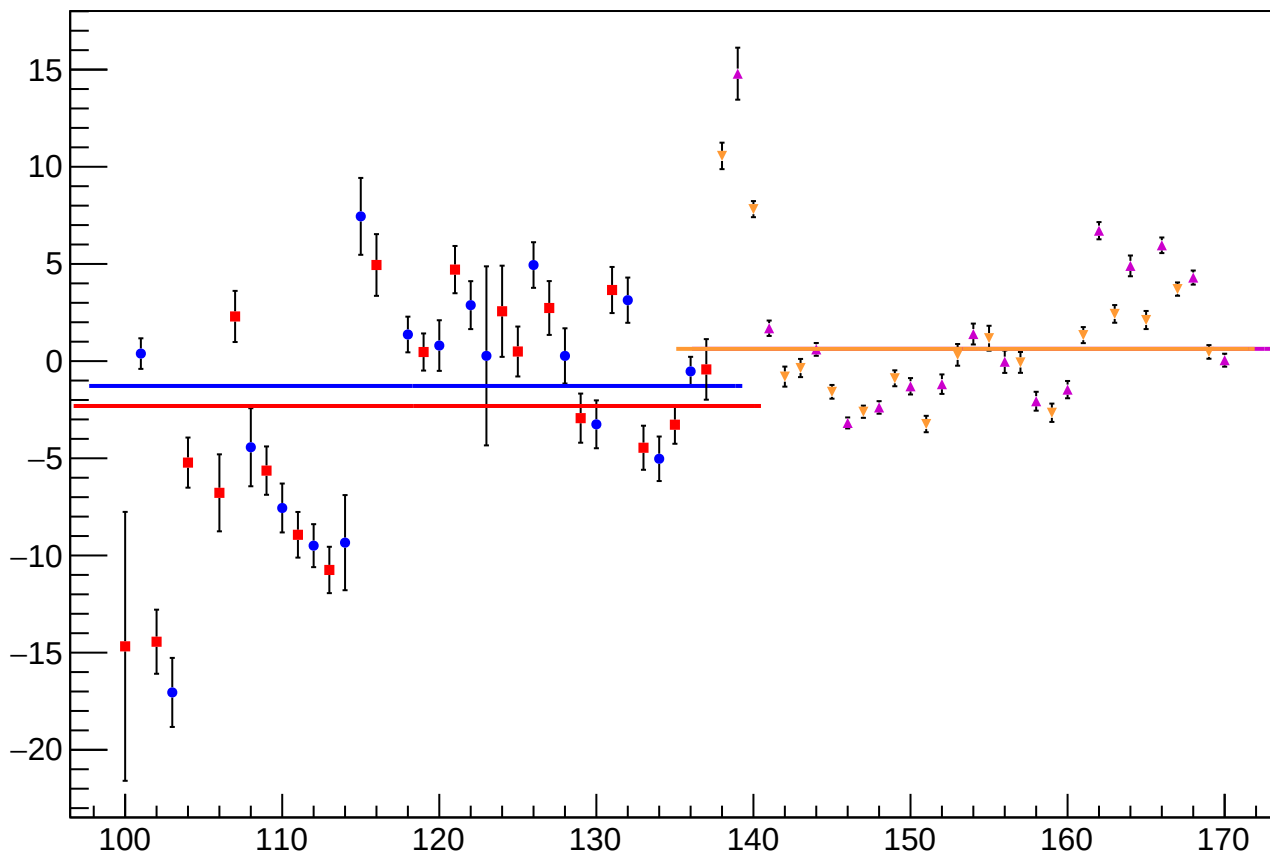
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -12.378+/-0.141 χ^2/NDF :2426.4/15

Out: -12.864+/-0.145 χ^2/NDF :2282.8/16

All: -12.615+/-0.101 χ^2/NDF : 4714.9/32

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.278 ± 0.292 χ^2/NDF : 276.5/16

Left Out: 0.631 ± 0.105 χ^2/NDF : 929.4/16

Right Out: -2.309 ± 0.302 χ^2/NDF : 285.3/18

Left In: 0.632 ± 0.103 χ^2/NDF : 1012.1/15

Left: 0.631 ± 0.073 χ^2/NDF : 1941.4/32

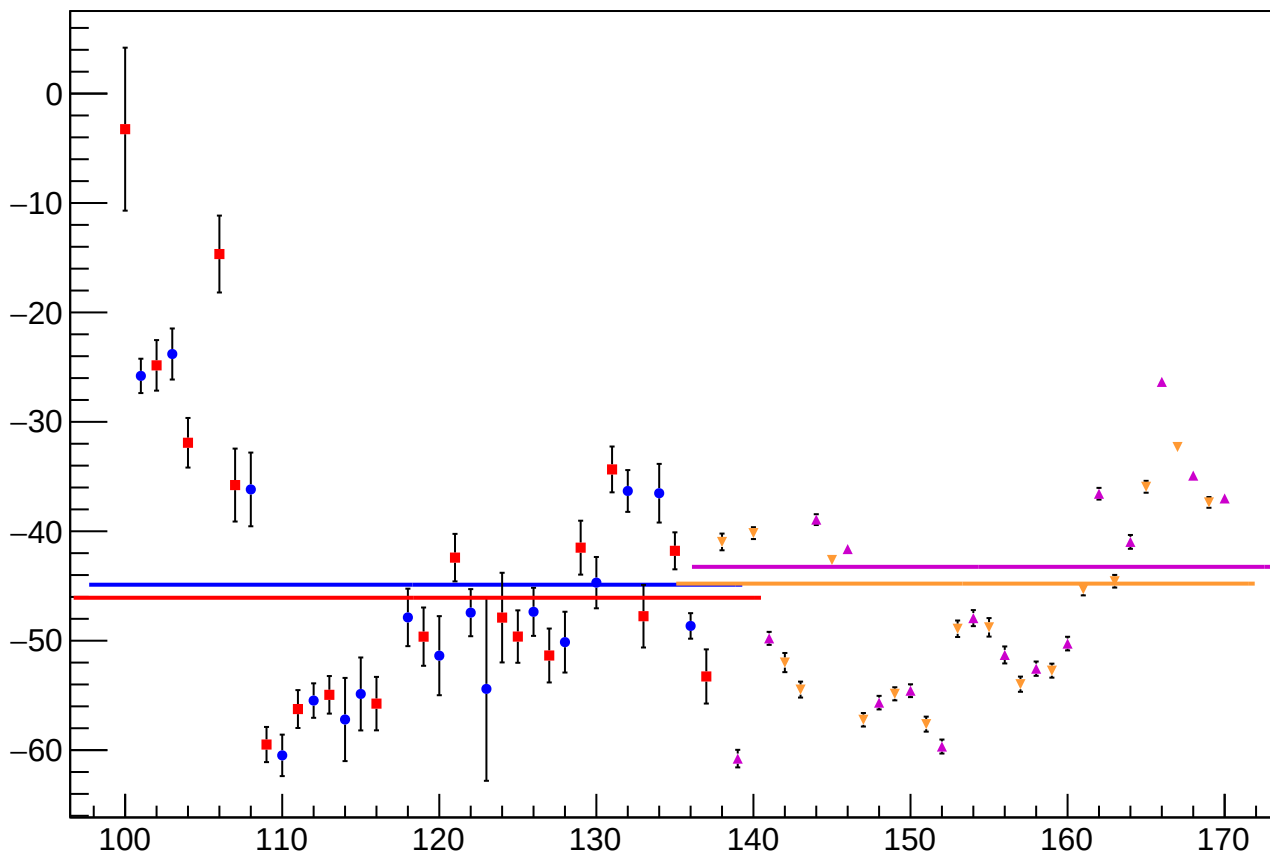
Right: -1.776 ± 0.210 χ^2/NDF : 567.8/35

In: 0.423 ± 0.097 χ^2/NDF : 1326.6/32

Out: 0.317 ± 0.099 χ^2/NDF : 1299.1/35

All: 0.371 ± 0.069 χ^2/NDF : 2626.2/68

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected

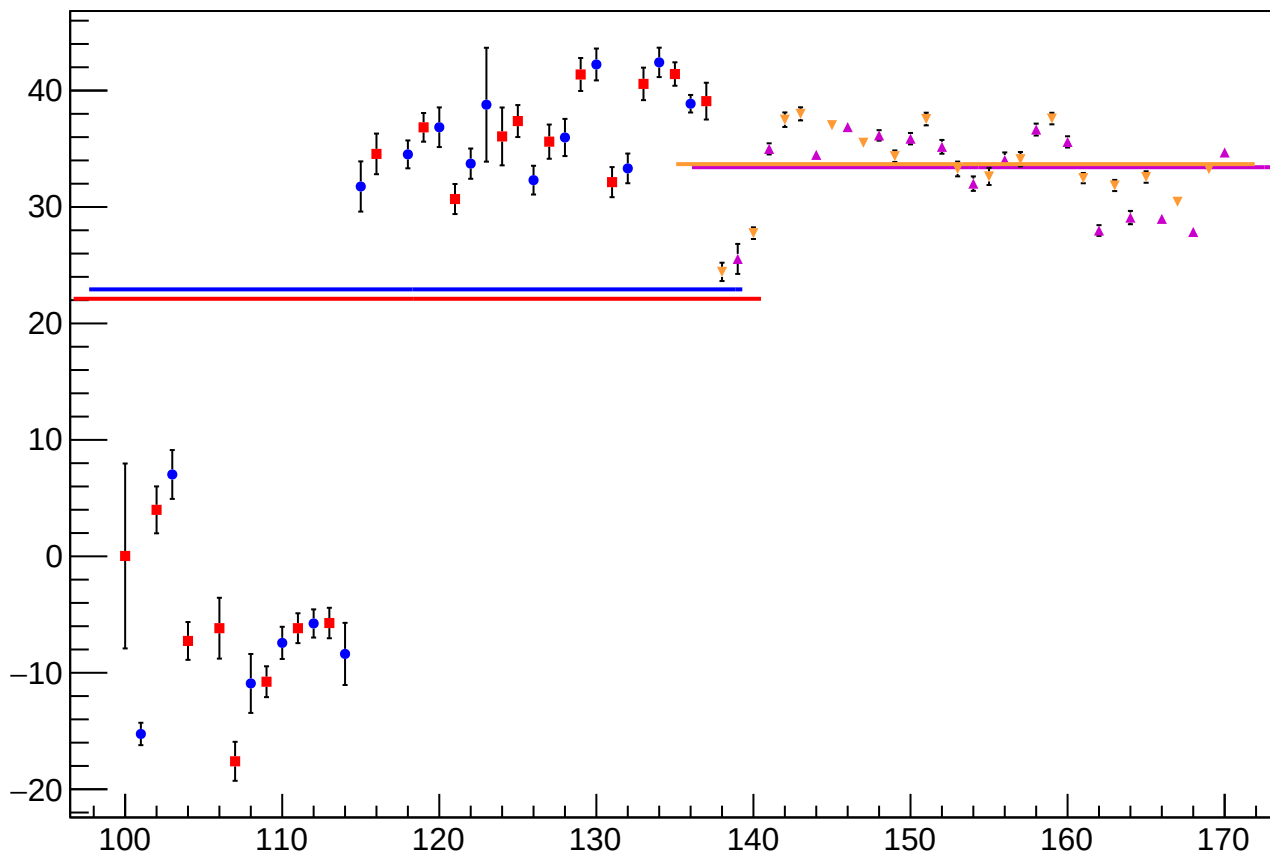


Right In: -44.883 ± 0.524 $\chi^2/\text{NDF}: 421.0/16$
 Left Out: -44.783 ± 0.145 $\chi^2/\text{NDF}: 3209.7/16$
 Right Out: -46.075 ± 0.529 $\chi^2/\text{NDF}: 454.3/18$
 Left In: -43.249 ± 0.140 $\chi^2/\text{NDF}: 4721.5/15$

Left: -43.990 ± 0.100 $\chi^2/\text{NDF}: 7989.4/32$
 Right: -45.474 ± 0.372 $\chi^2/\text{NDF}: 877.8/35$
 In: -43.358 ± 0.135 $\chi^2/\text{NDF}: 5151.5/32$
 Out: -44.873 ± 0.139 $\chi^2/\text{NDF}: 3669.5/35$

All: -44.091 ± 0.097 $\chi^2/\text{NDF}: 8882.0/68$

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.926 $\pm$ 0.328 χ^2 /NDF: 4330.2/16

Left Out: 33.681 $\pm$ 0.121 χ^2 /NDF:679.7/16

Right Out: 22.117 $\pm$ 0.340 χ^2 /NDF: 4033.4/18

Left In: 33.417 $\pm$ 0.119 χ^2 /NDF:774.3/15

Left: 33.546 $\pm$ 0.085 χ^2 /NDF: 1456.4/32

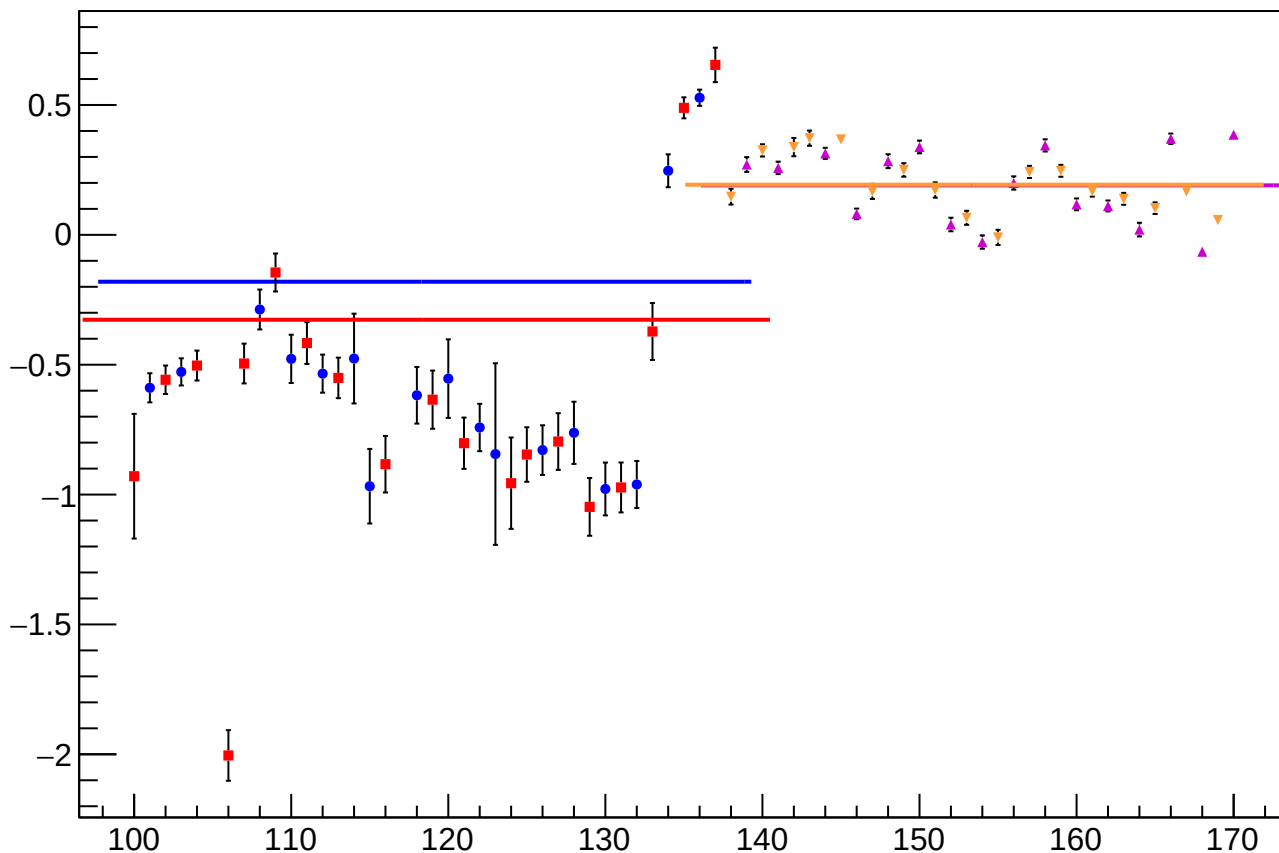
Right: 22.536 $\pm$ 0.236 χ^2 /NDF: 8366.6/35

In: 32.200 $\pm$ 0.112 χ^2 /NDF:6008.5/32

Out: 32.381 $\pm$ 0.114 χ^2 /NDF:5740.0/35

All: 32.288 $\pm$ 0.080 χ^2 /NDF: 11749.8/68

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.180 ± 0.018 χ^2/NDF : 995.7/16

Left Out: 0.193 ± 0.006 χ^2/NDF : 349.2/16

Right Out: -0.327 ± 0.018 χ^2/NDF : 1175.6/18

Left In: 0.191 ± 0.006 χ^2/NDF : 806.7/15

Left: 0.192 ± 0.004 χ^2/NDF : 1156.0/32

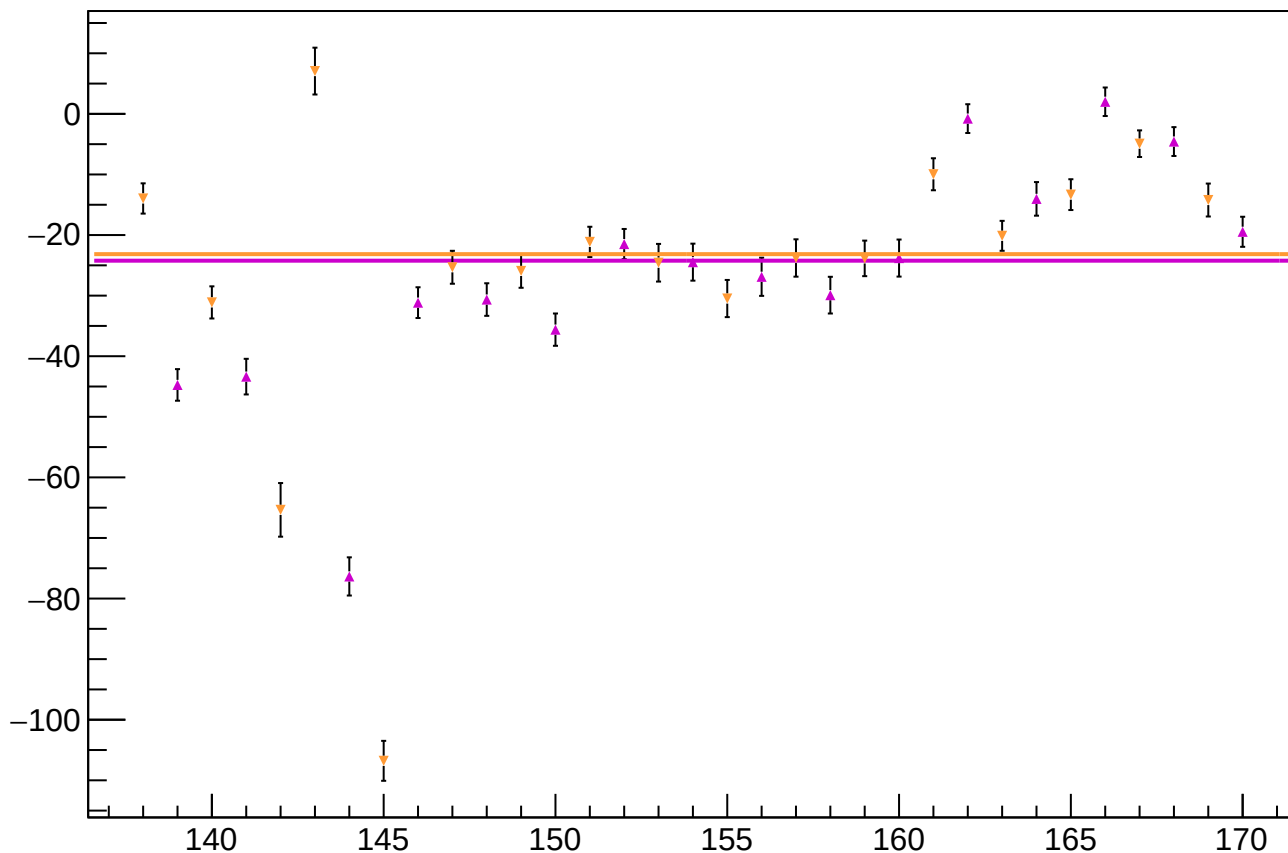
Right: -0.252 ± 0.013 χ^2/NDF : 2204.4/35

In: 0.158 ± 0.005 χ^2/NDF : 2199.7/32

Out: 0.147 ± 0.005 χ^2/NDF : 2268.5/35

All: 0.152 ± 0.004 χ^2/NDF : 4470.2/68

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



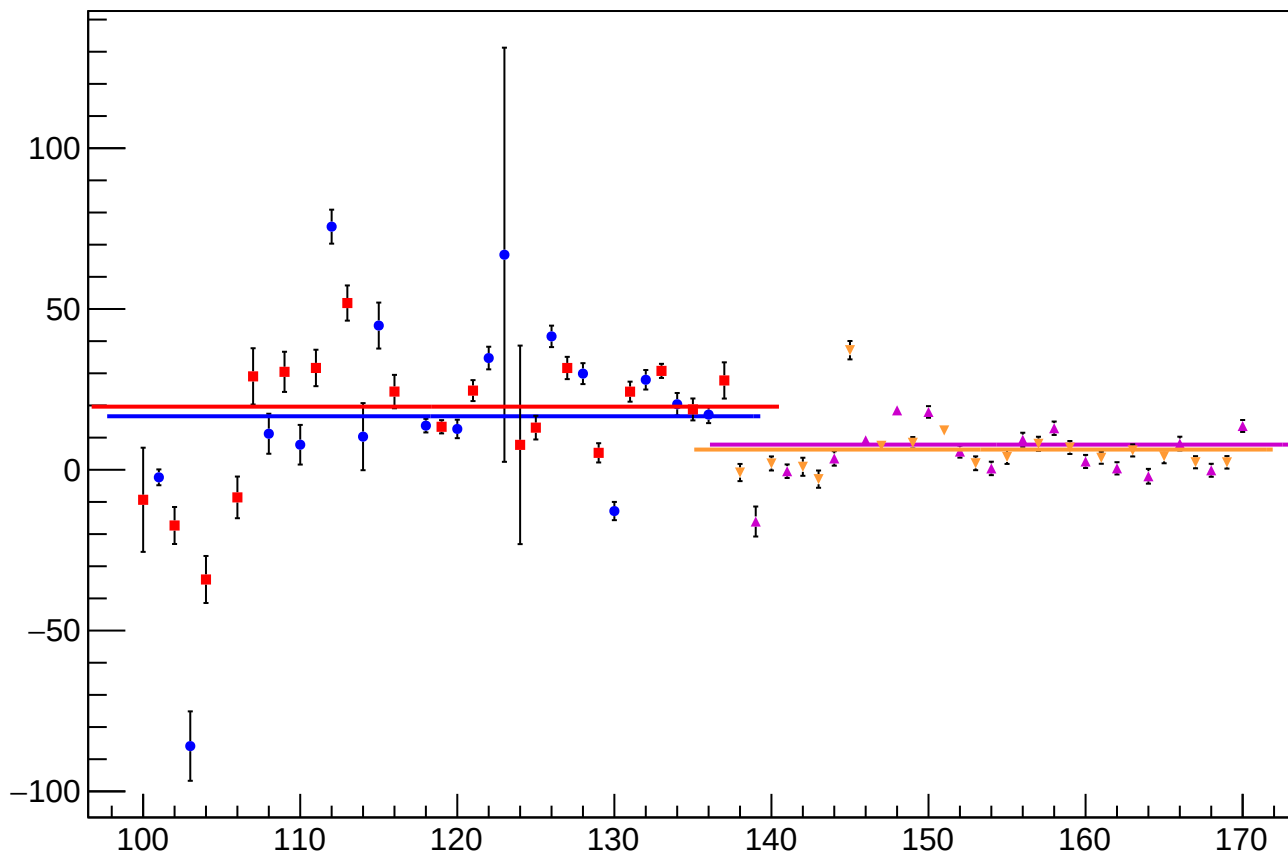
Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -23.153+/-0.678 χ^2/NDF :947.5/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -24.232+/-0.673 χ^2/NDF :721.4/15

Left: -23.697+/-0.478 χ^2/NDF : 1670.2/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -24.232+/-0.673 χ^2/NDF :721.4/15
 Out: -23.153+/-0.678 χ^2/NDF :947.5/16

All: -23.697+/-0.478 χ^2/NDF : 1670.2/32

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.641 ± 0.859 $\chi^2/\text{NDF}: 518.9/16$

Left Out: 6.286 ± 0.479 $\chi^2/\text{NDF}: 180.3/16$

Right Out: 19.632 ± 0.896 $\chi^2/\text{NDF}: 241.7/18$

Left In: 7.827 ± 0.487 $\chi^2/\text{NDF}: 229.8/15$

Left: 7.045 ± 0.342 $\chi^2/\text{NDF}: 415.2/32$

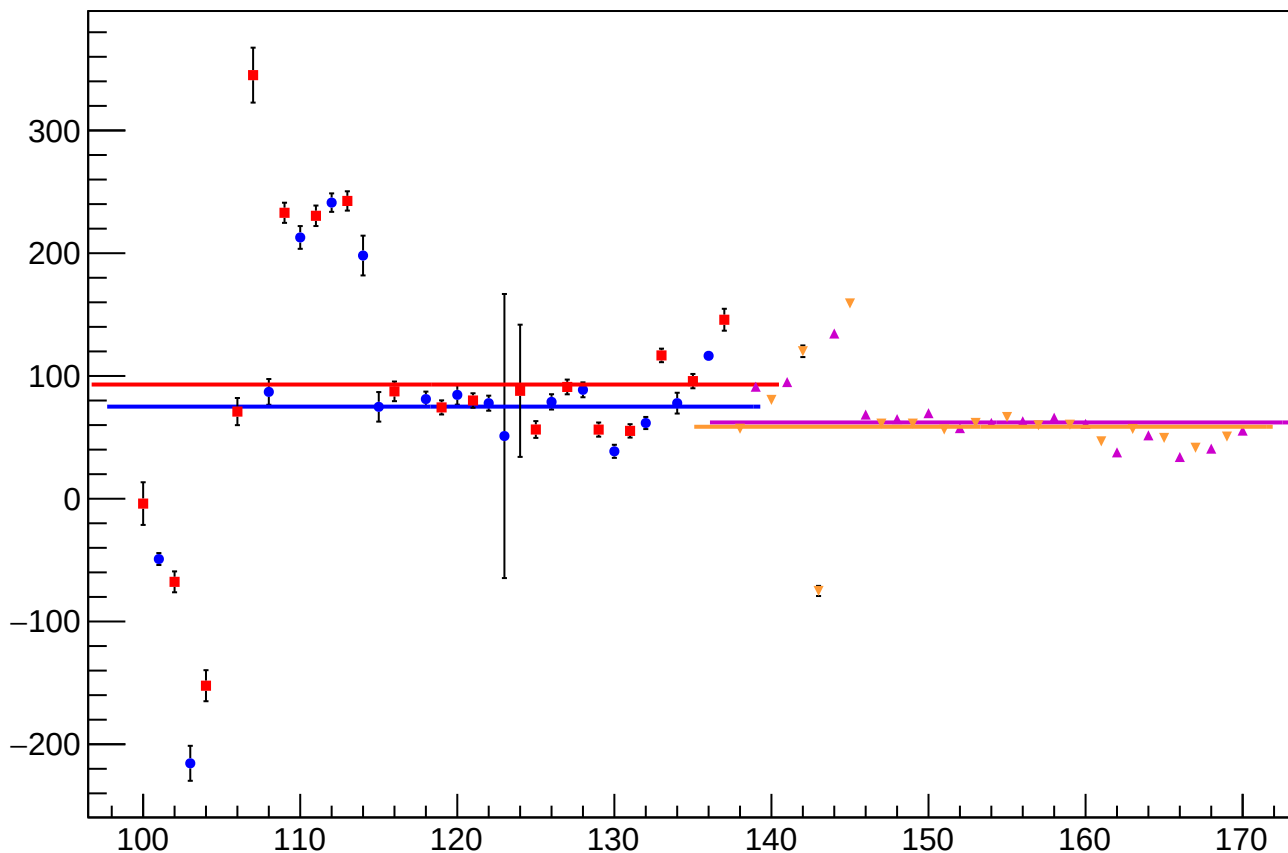
Right: 18.072 ± 0.620 $\chi^2/\text{NDF}: 766.4/35$

In: 9.969 ± 0.423 $\chi^2/\text{NDF}: 828.5/32$

Out: 9.256 ± 0.423 $\chi^2/\text{NDF}: 594.3/35$

All: 9.612 ± 0.299 $\chi^2/\text{NDF}: 1424.2/68$

reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 75.032 $\pm$ 1.647 χ^2 /NDF: 1999.7/16

Left Out: 58.632 $\pm$ 0.666 χ^2 /NDF:2255.4/16

Right Out: 93.028 $\pm$ 1.711 χ^2 /NDF: 2003.6/18

Left In: 62.141 $\pm$ 0.658 χ^2 /NDF:1053.8/15

Left: 60.408 $\pm$ 0.468 χ^2 /NDF: 3323.2/32

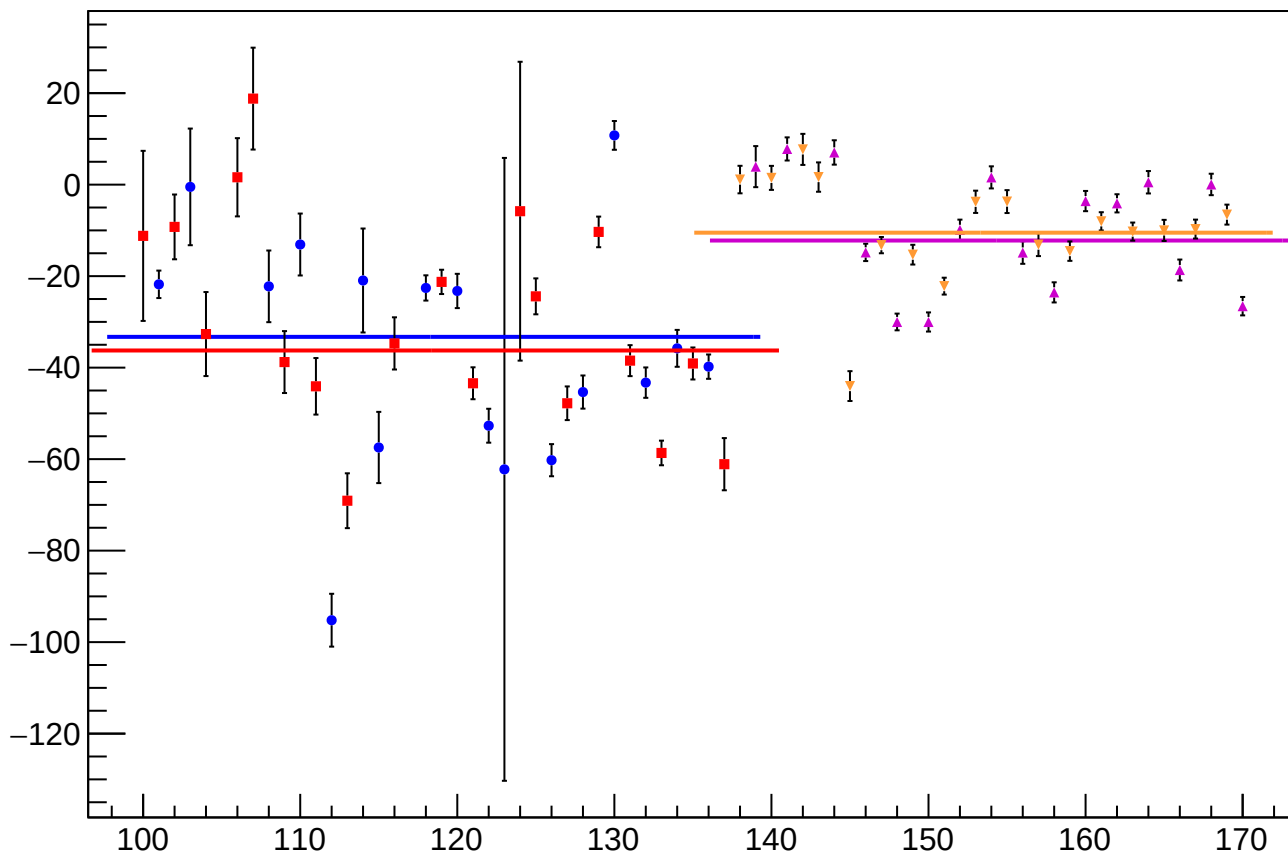
Right: 83.683 $\pm$ 1.187 χ^2 /NDF: 4060.7/35

In: 63.917 $\pm$ 0.611 χ^2 /NDF:3106.3/32

Out: 63.160 $\pm$ 0.621 χ^2 /NDF:4609.7/35

All: 63.545 $\pm$ 0.436 χ^2 /NDF: 7716.8/68

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -33.272 ± 0.982 χ^2/NDF : 489.4/16

Left Out: -10.499 ± 0.558 χ^2/NDF : 256.8/16

Right Out: -36.251 ± 1.024 χ^2/NDF : 297.6/18

Left In: -12.215 ± 0.564 χ^2/NDF : 503.4/15

Left: -11.348 ± 0.397 χ^2/NDF : 764.9/32

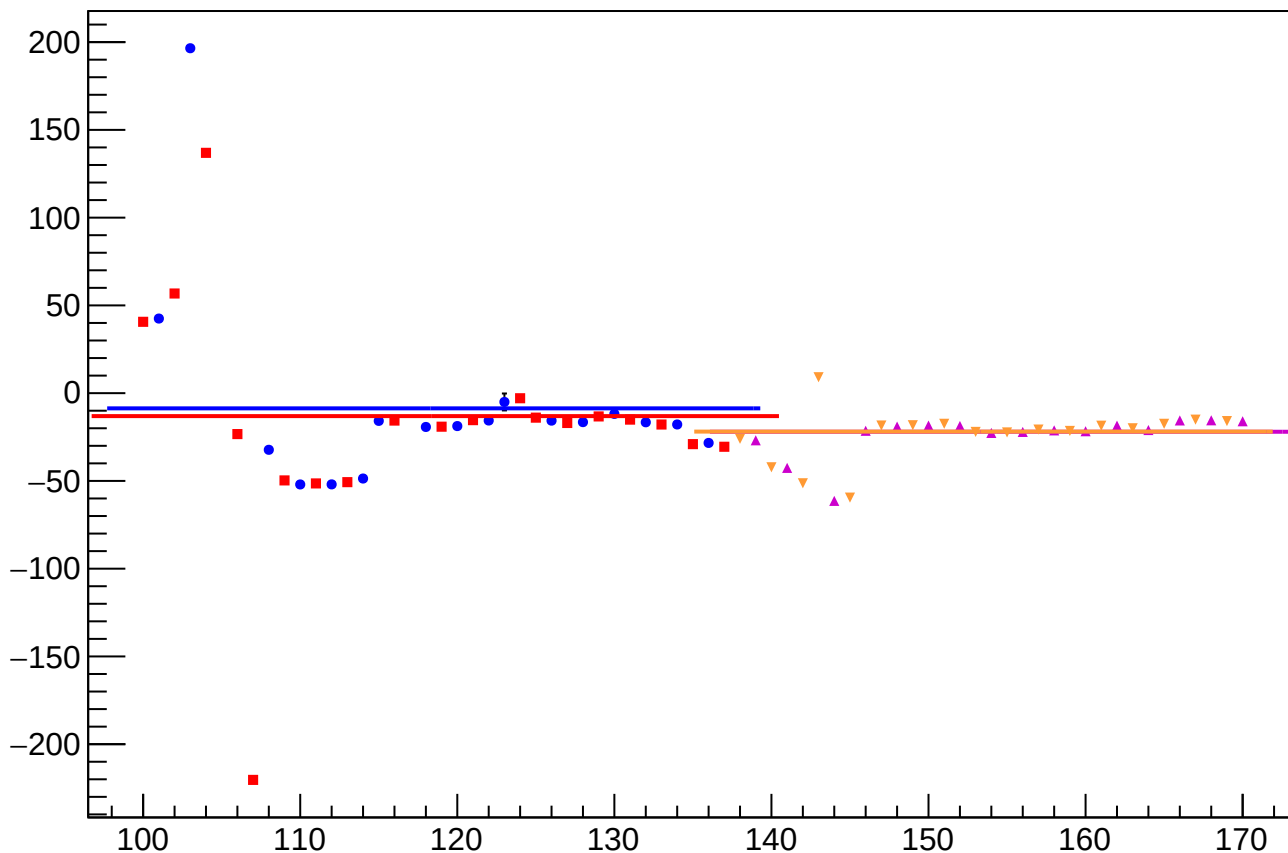
Right: -34.699 ± 0.709 χ^2/NDF : 791.4/35

In: -17.444 ± 0.489 χ^2/NDF : 1338.5/32

Out: -16.402 ± 0.490 χ^2/NDF : 1042.0/35

All: -16.924 ± 0.346 χ^2/NDF : 2382.7/68

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -8.657 ± 0.059 $\chi^2/\text{NDF}: 575742.7/16$

Left Out: -21.895 ± 0.026 $\chi^2/\text{NDF}: 182001.7/16$

Right Out: -13.077 ± 0.062 $\chi^2/\text{NDF}: 558318.9/18$

Left In: -21.994 ± 0.026 $\chi^2/\text{NDF}: 118116.8/15$

Left: -21.945 ± 0.018 $\chi^2/\text{NDF}: 300125.7/32$

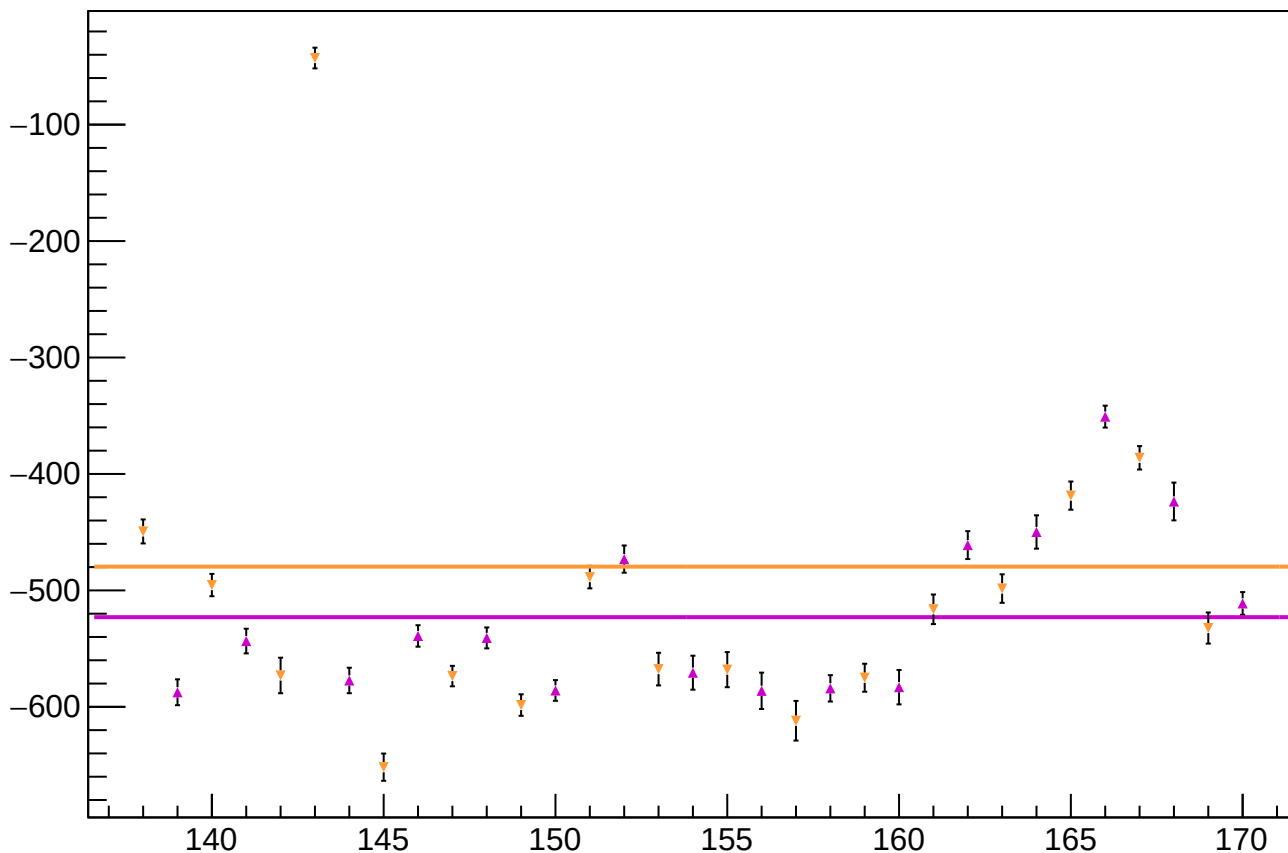
Right: -10.767 ± 0.043 $\chi^2/\text{NDF}: 1136731.7/35$

In: -19.863 ± 0.024 $\chi^2/\text{NDF}: 736671.1/32$

Out: -20.559 ± 0.024 $\chi^2/\text{NDF}: 757580.3/35$

All: -20.204 ± 0.017 $\chi^2/\text{NDF}: 1494677.2/68$

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -479.590+/-2.722 χ^2/NDF : 3291.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -522.989+/-2.793 χ^2/NDF : 637.2/15

Left: -500.732+/-1.950 χ^2/NDF : 4051.9/32

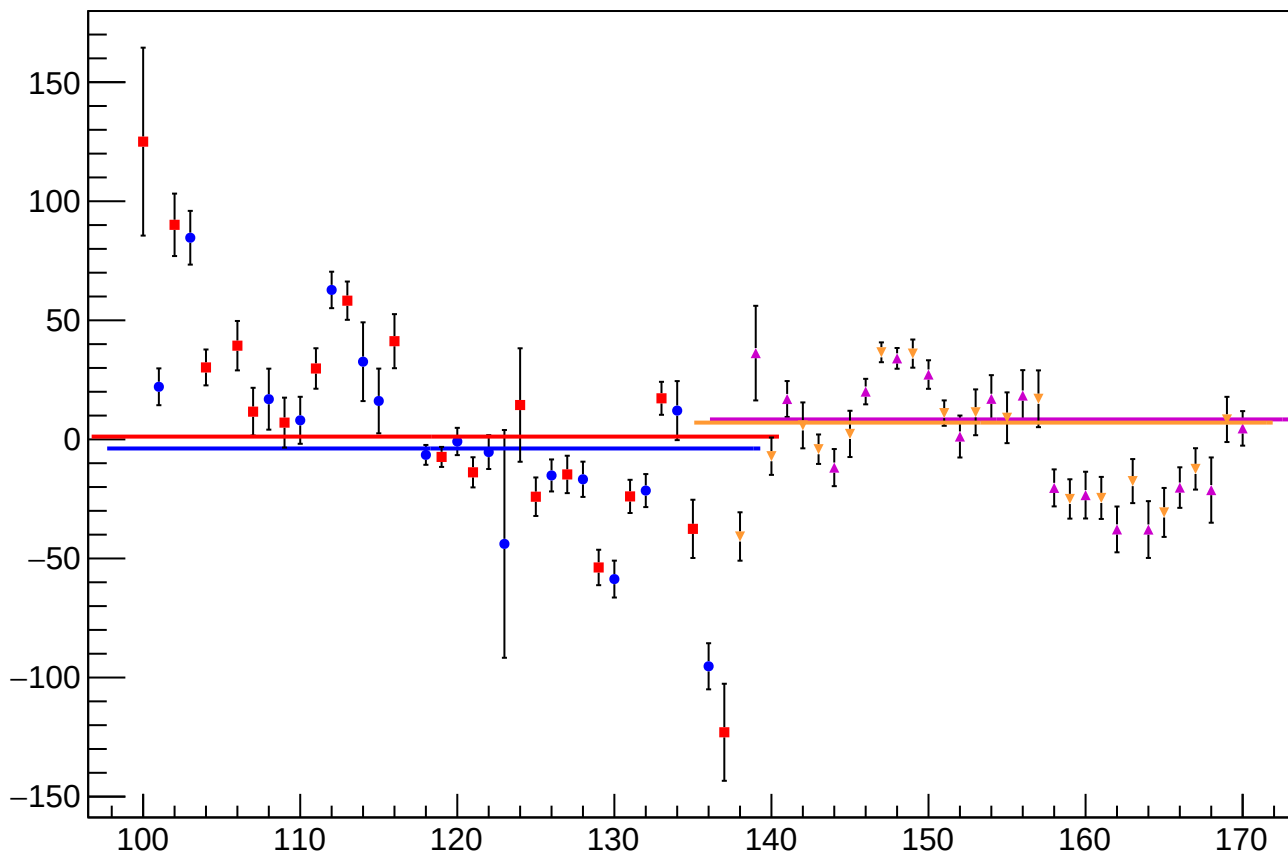
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -522.989+/-2.793 χ^2/NDF : 637.2/15

Out: -479.590+/-2.722 χ^2/NDF : 3291.0/16

All: -500.732+/-1.950 χ^2/NDF : 4051.9/32

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.815 ± 1.923 χ^2/NDF : 314.3/16

Left Out: 7.051 ± 1.843 χ^2/NDF : 158.1/16

Right Out: 1.175 ± 1.914 χ^2/NDF : 303.9/18

Left In: 8.389 ± 1.936 χ^2/NDF : 140.1/15

Left: 7.687 ± 1.335 χ^2/NDF : 298.5/32

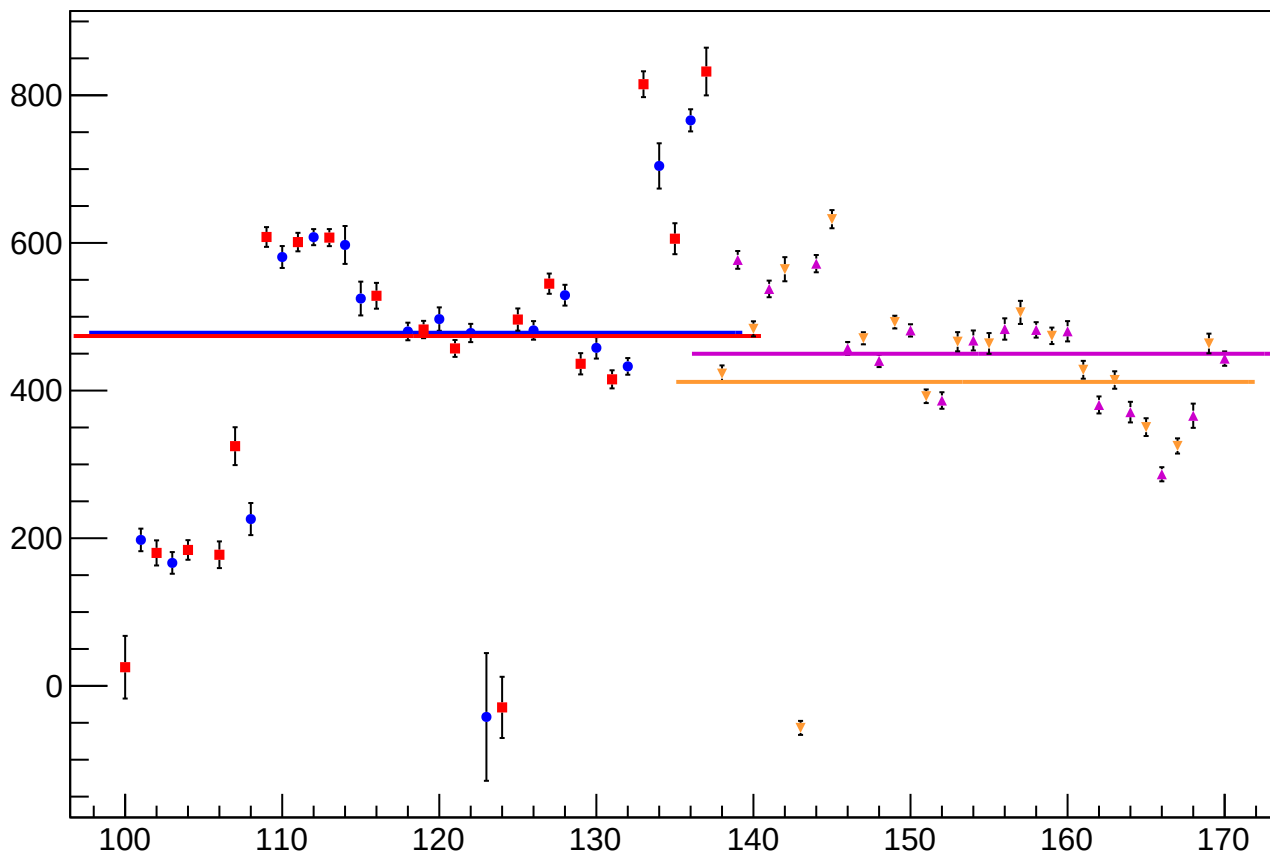
Right: -1.308 ± 1.356 χ^2/NDF : 621.6/35

In: 2.245 ± 1.364 χ^2/NDF : 474.4/32

Out: 4.224 ± 1.327 χ^2/NDF : 466.9/35

All: 3.262 ± 0.951 χ^2/NDF : 942.4/68

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 478.334+/-3.662 χ^2/NDF : 1628.8/16

Left Out: 411.759+/-2.691 χ^2/NDF : 3249.7/16

Right Out: 473.902+/-3.531 χ^2/NDF : 2285.0/18

Left In: 449.864+/-2.732 χ^2/NDF : 735.9/15

Left: 430.520+/-1.917 χ^2/NDF : 4084.3/32

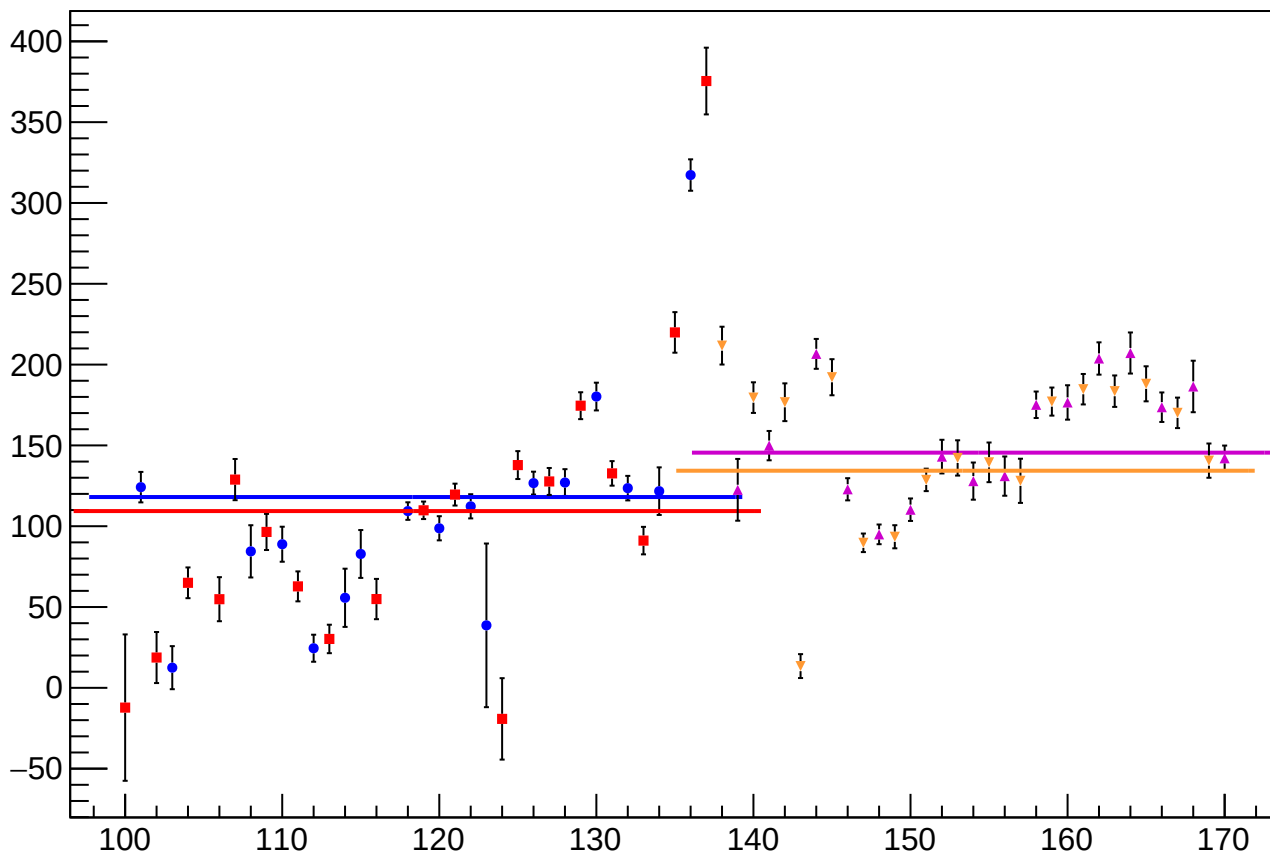
Right: 476.038+/-2.542 χ^2/NDF : 3914.6/35

In: 460.045+/-2.190 χ^2/NDF : 2403.5/32

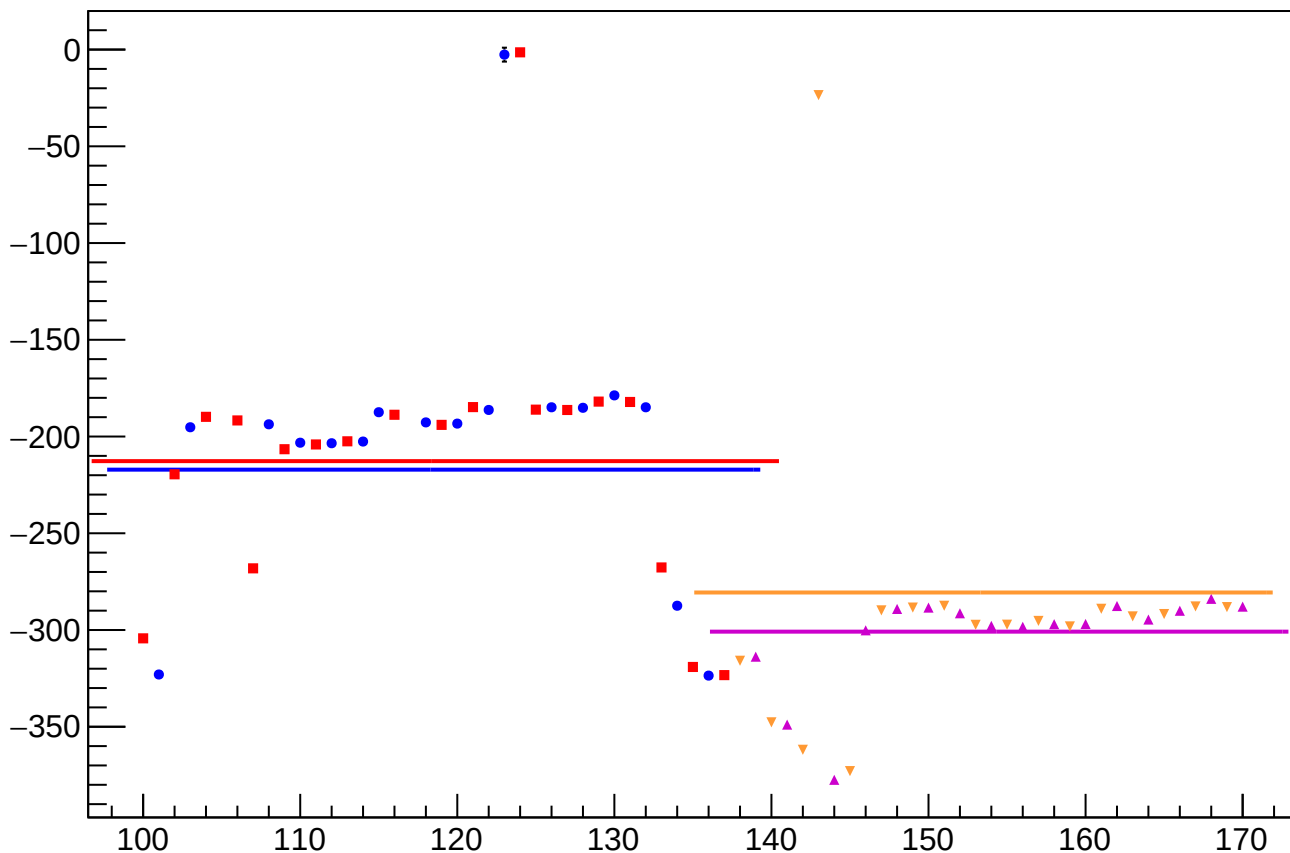
Out: 434.589+/-2.140 χ^2/NDF : 5730.7/35

All: 447.025+/-1.531 χ^2/NDF : 8203.3/68

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -217.120 ± 0.137 $\chi^2/\text{NDF}: 146559.7/16$

Left Out: -280.609 ± 0.108 $\chi^2/\text{NDF}: 546179.3/16$

Right Out: -212.715 ± 0.130 $\chi^2/\text{NDF}: 115566.2/18$

Left In: -300.848 ± 0.109 $\chi^2/\text{NDF}: 41033.0/15$

Left: -290.658 ± 0.077 $\chi^2/\text{NDF}: 604610.0/32$

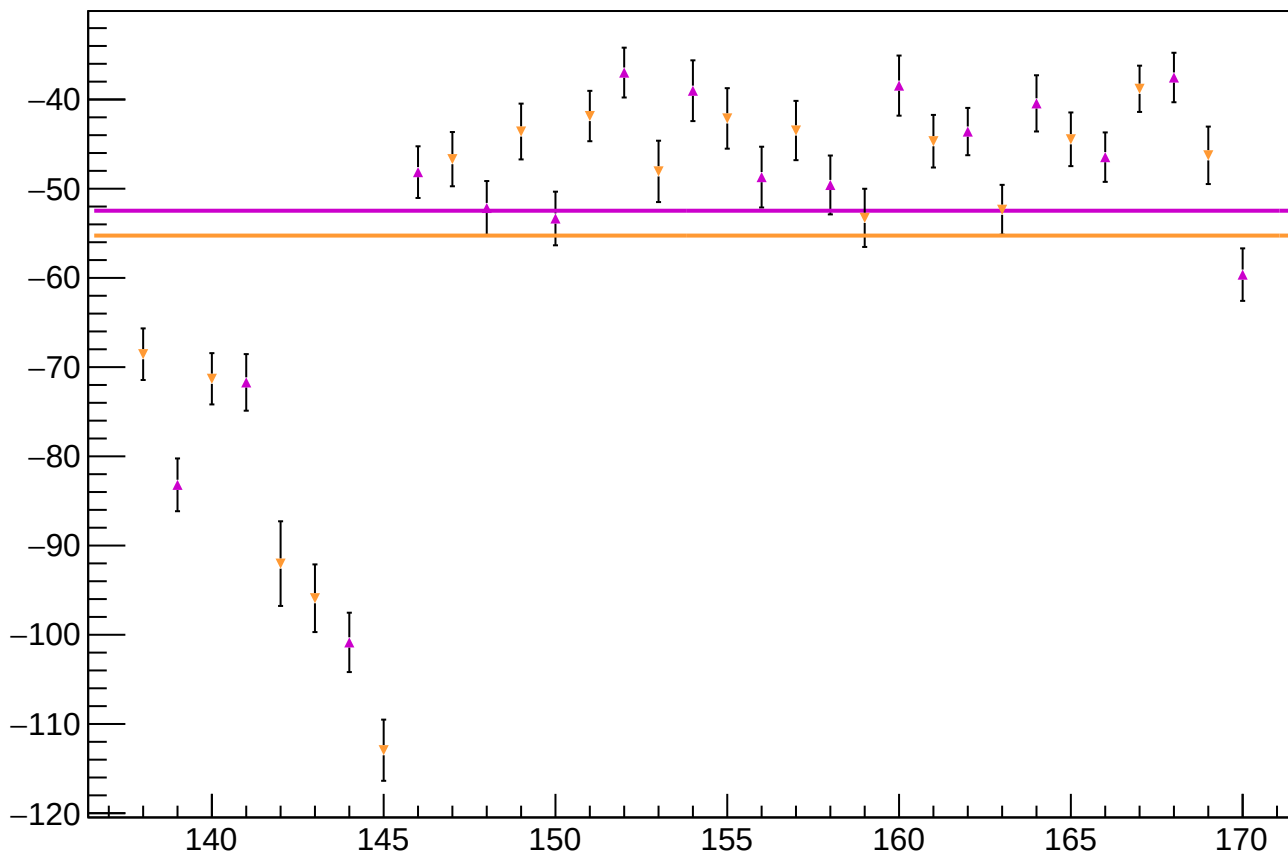
Right: -214.812 ± 0.094 $\chi^2/\text{NDF}: 262670.9/35$

In: -268.314 ± 0.085 $\chi^2/\text{NDF}: 417388.4/32$

Out: -252.895 ± 0.083 $\chi^2/\text{NDF}: 822724.1/35$

All: -260.425 ± 0.059 $\chi^2/\text{NDF}: 1256897.4/68$

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



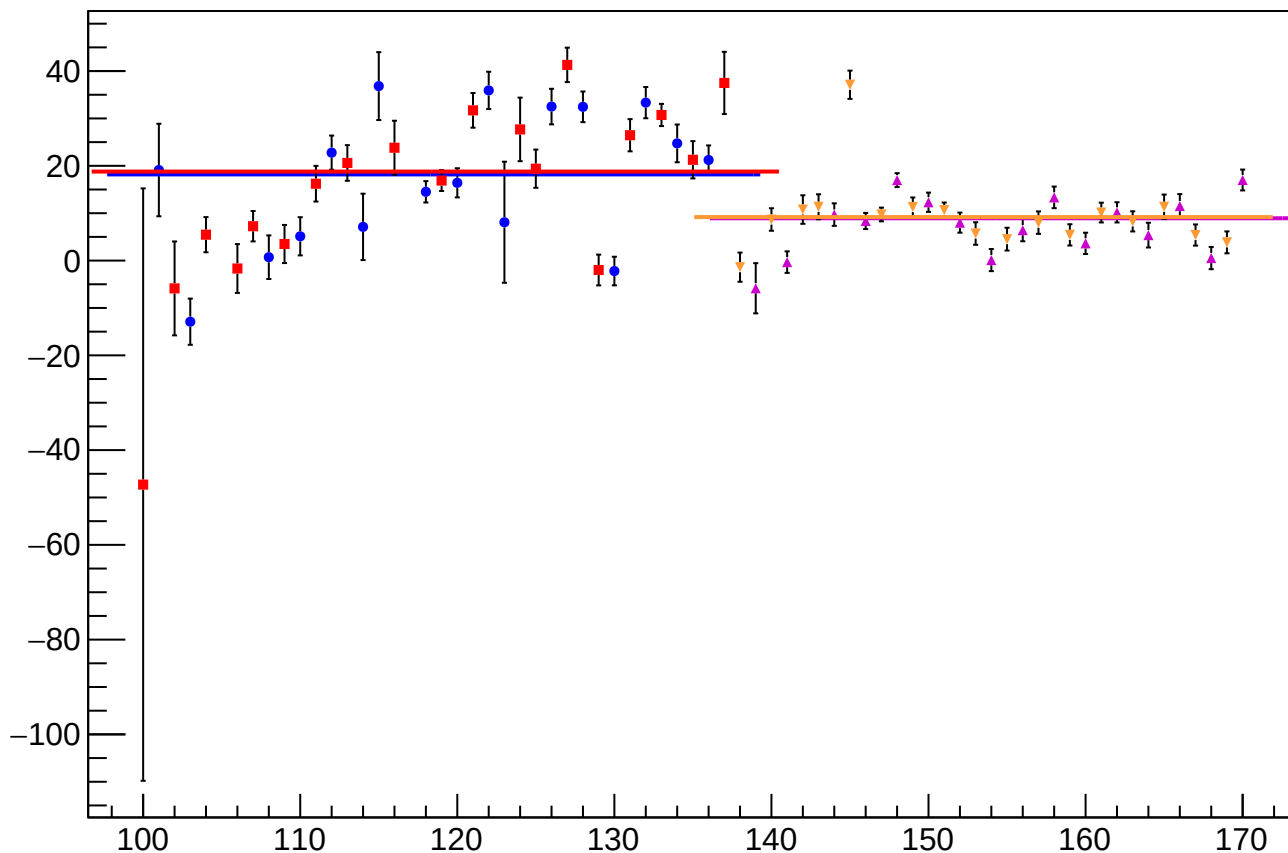
Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -55.255+/-0.760 χ^2/NDF :661.9/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -52.469+/-0.758 χ^2/NDF :489.6/15

Left: -53.857+/-0.537 χ^2/NDF : 1158.2/32
 Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -52.469+/-0.758 χ^2/NDF :489.6/15
 Out: -55.255+/-0.760 χ^2/NDF :661.9/16

All: -53.857+/-0.537 χ^2/NDF : 1158.2/32

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.188 ± 0.917 χ^2/NDF : 204.9/16

Left Out: 9.181 ± 0.536 χ^2/NDF : 120.9/16

Right Out: 18.791 ± 0.863 χ^2/NDF : 198.8/18

Left In: 8.931 ± 0.547 χ^2/NDF : 111.8/15

Left: 9.058 ± 0.383 χ^2/NDF : 232.7/32

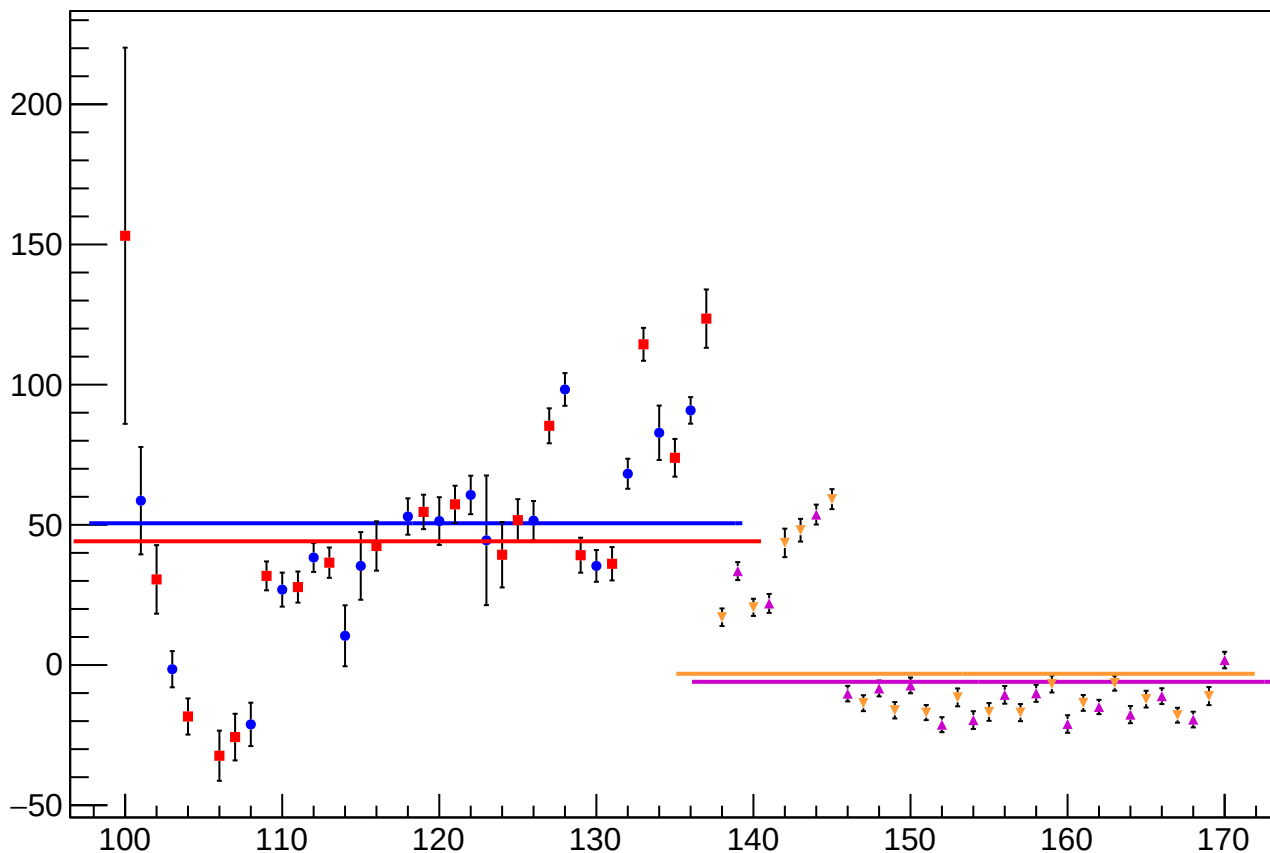
Right: 18.508 ± 0.628 χ^2/NDF : 403.9/35

In: 11.358 ± 0.470 χ^2/NDF : 391.8/32

Out: 11.857 ± 0.455 χ^2/NDF : 409.2/35

All: 11.616 ± 0.327 χ^2/NDF : 801.5/68

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 50.565 $\pm$ 1.678 χ^2 /NDF: 357.9/16

Left Out: -3.118 $\pm$ 0.747 χ^2 /NDF:820.2/16

Right Out: 44.132 $\pm$ 1.603 χ^2 /NDF: 532.5/18

Left In: -5.989 $\pm$ 0.741 χ^2 /NDF:643.0/15

Left: -4.565 $\pm$ 0.526 χ^2 /NDF: 1470.7/32

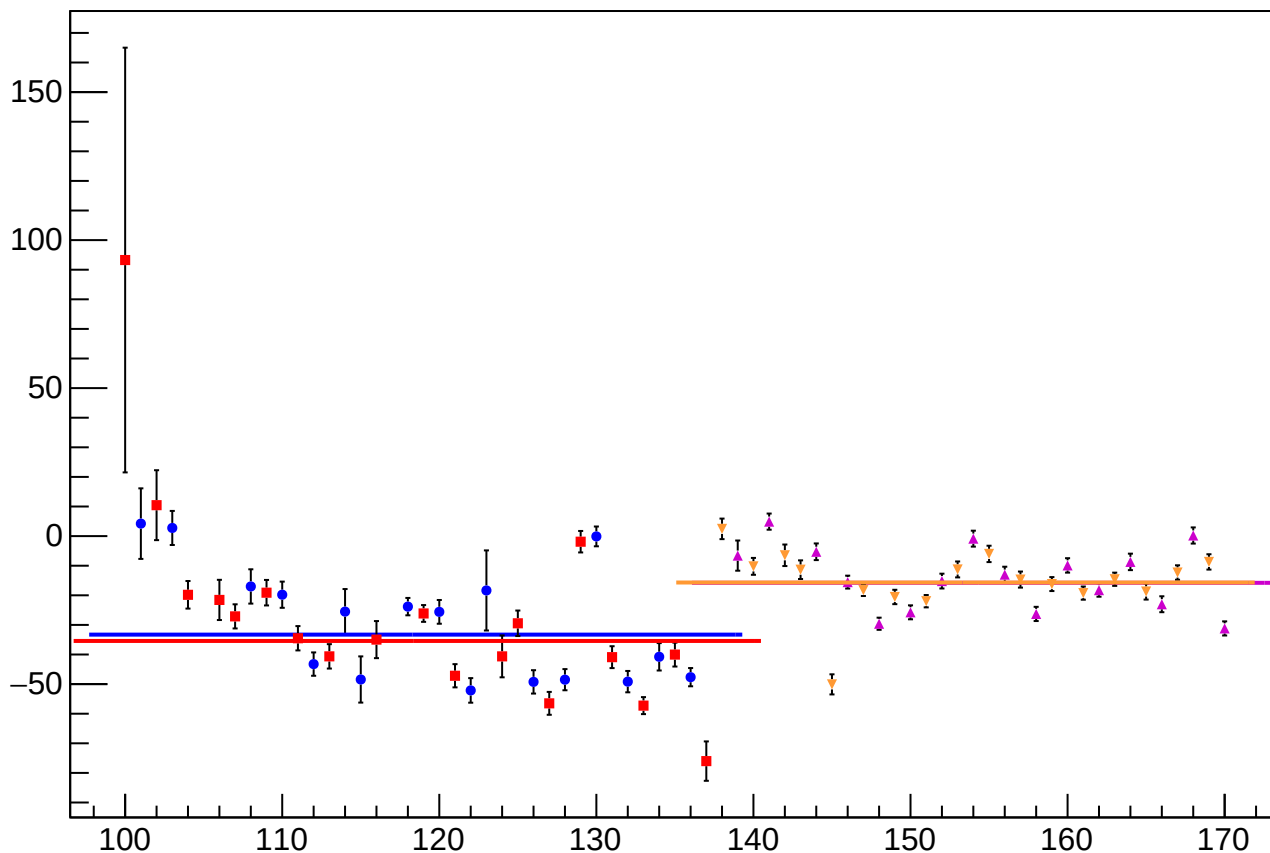
Right: 47.201 $\pm$ 1.159 χ^2 /NDF: 898.2/35

In: 3.240 $\pm$ 0.678 χ^2 /NDF:1951.9/32

Out: 5.313 $\pm$ 0.677 χ^2 /NDF:2067.0/35

All: 4.278 $\pm$ 0.479 χ^2 /NDF: 4023.7/68

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -33.281 ± 1.043 χ^2/NDF : 290.1/16

Left Out: -15.676 ± 0.625 χ^2/NDF : 185.0/16

Right Out: -35.417 ± 0.991 χ^2/NDF : 289.7/18

Left In: -15.783 ± 0.634 χ^2/NDF : 285.5/15

Left: -15.728 ± 0.445 χ^2/NDF : 470.5/32

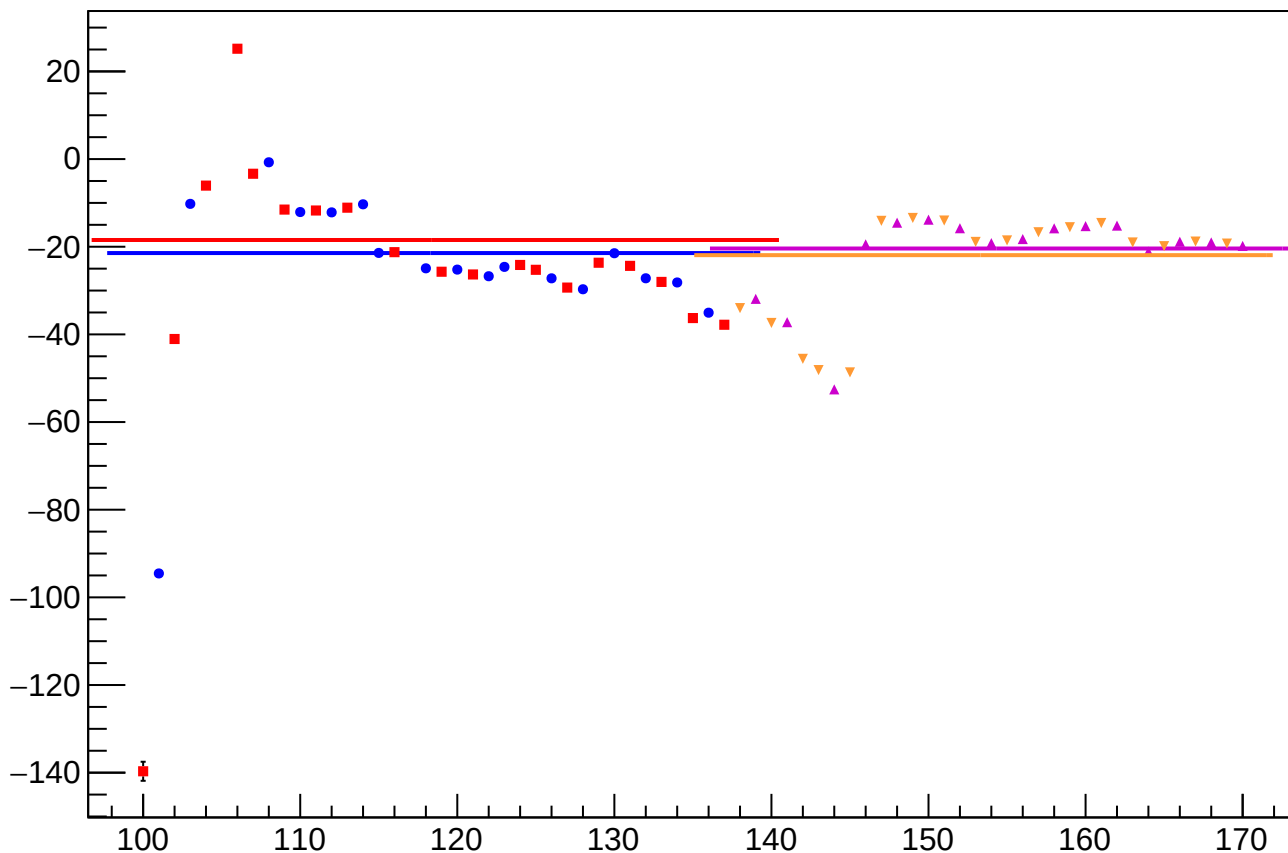
Right: -34.404 ± 0.719 χ^2/NDF : 582.0/35

In: -20.502 ± 0.542 χ^2/NDF : 780.9/32

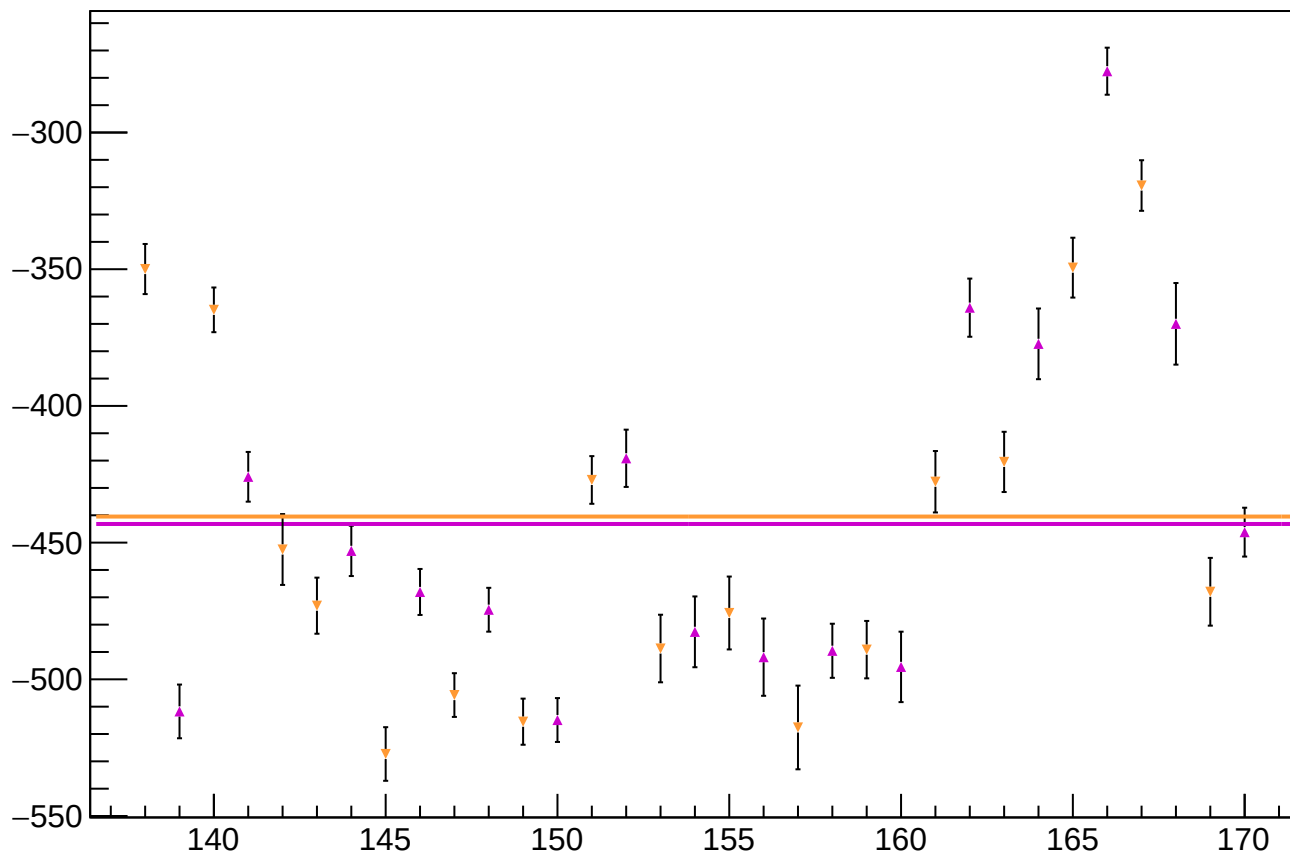
Out: -21.292 ± 0.529 χ^2/NDF : 758.5/35

All: -20.907 ± 0.378 χ^2/NDF : 1540.5/68

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -440.465+/-2.471 χ^2/NDF : 739.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -443.184+/-2.491 χ^2/NDF : 698.0/15

Left: -441.814+/-1.754 χ^2/NDF : 1438.4/32

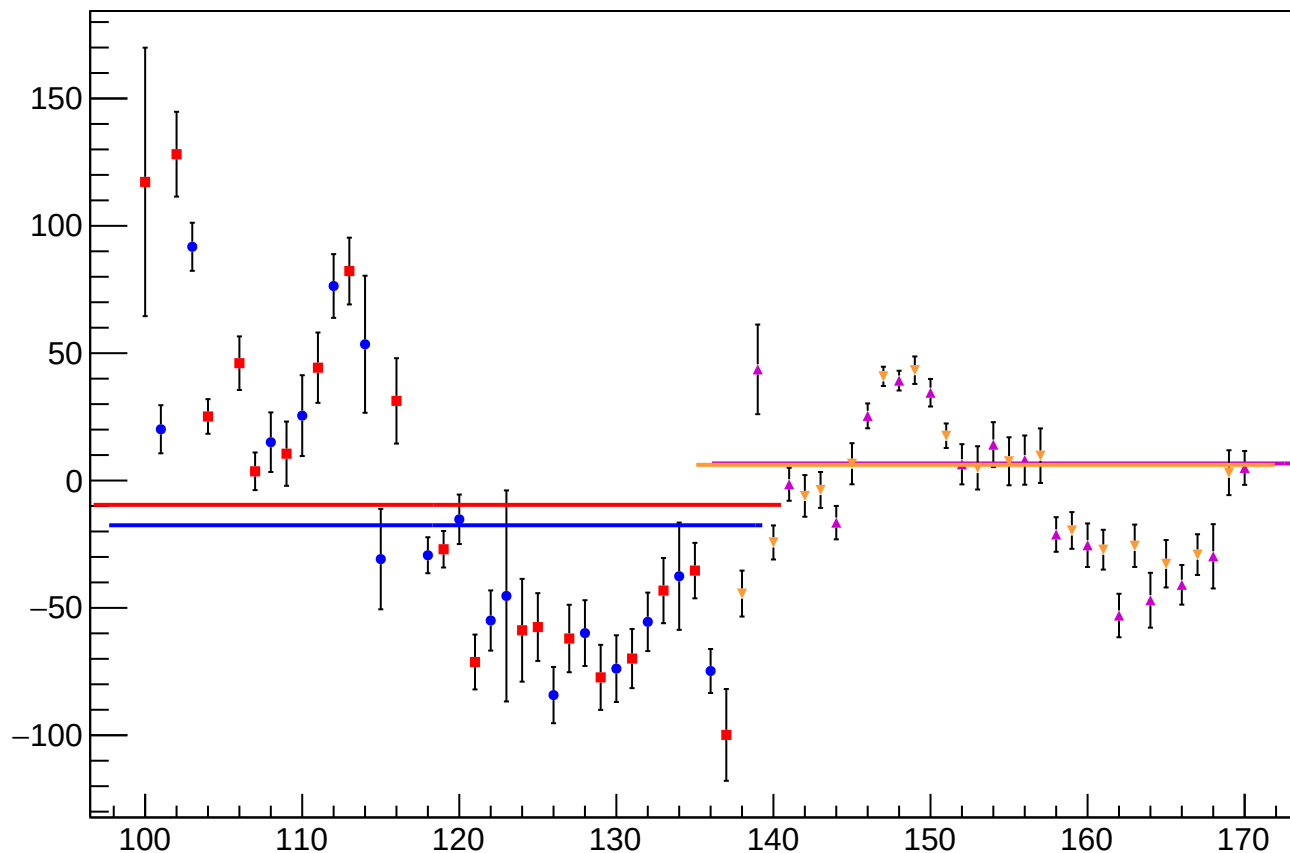
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -443.184+/-2.491 χ^2/NDF : 698.0/15

Out: -440.465+/-2.471 χ^2/NDF : 739.8/16

All: -441.814+/-1.754 χ^2/NDF : 1438.4/32

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -17.564 ± 2.820 χ^2/NDF : 363.7/16

Left Out: 6.167 ± 1.675 χ^2/NDF : 276.2/16

Right Out: -9.547 ± 2.609 χ^2/NDF : 370.3/18

Left In: 6.711 ± 1.727 χ^2/NDF : 280.9/15

Left: 6.431 ± 1.202 χ^2/NDF : 557.2/32

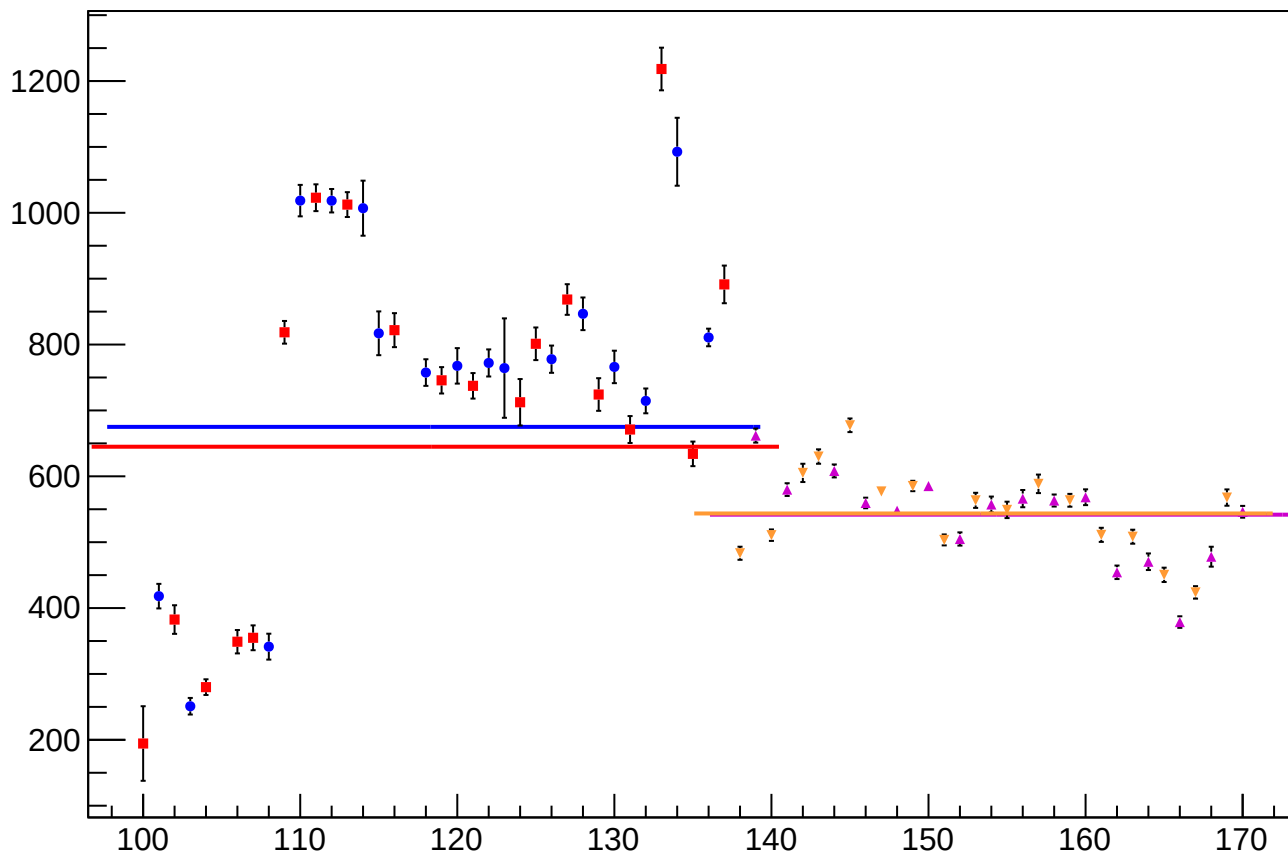
Right: -13.243 ± 1.915 χ^2/NDF : 738.4/35

In: 0.094 ± 1.473 χ^2/NDF : 698.5/32

Out: 1.579 ± 1.410 χ^2/NDF : 672.2/35

All: 0.869 ± 1.018 χ^2/NDF : 1371.3/68

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 675.045 $\pm$ 5.067 χ^2 /NDF: 2584.3/16

Left Out: 543.589 $\pm$ 2.439 χ^2 /NDF:647.0/16

Right Out: 644.915 $\pm$ 4.761 χ^2 /NDF: 3122.2/18

Left In: 541.754 $\pm$ 2.439 χ^2 /NDF:725.3/15

Left: 542.671 $\pm$ 1.725 χ^2 /NDF: 1372.6/32

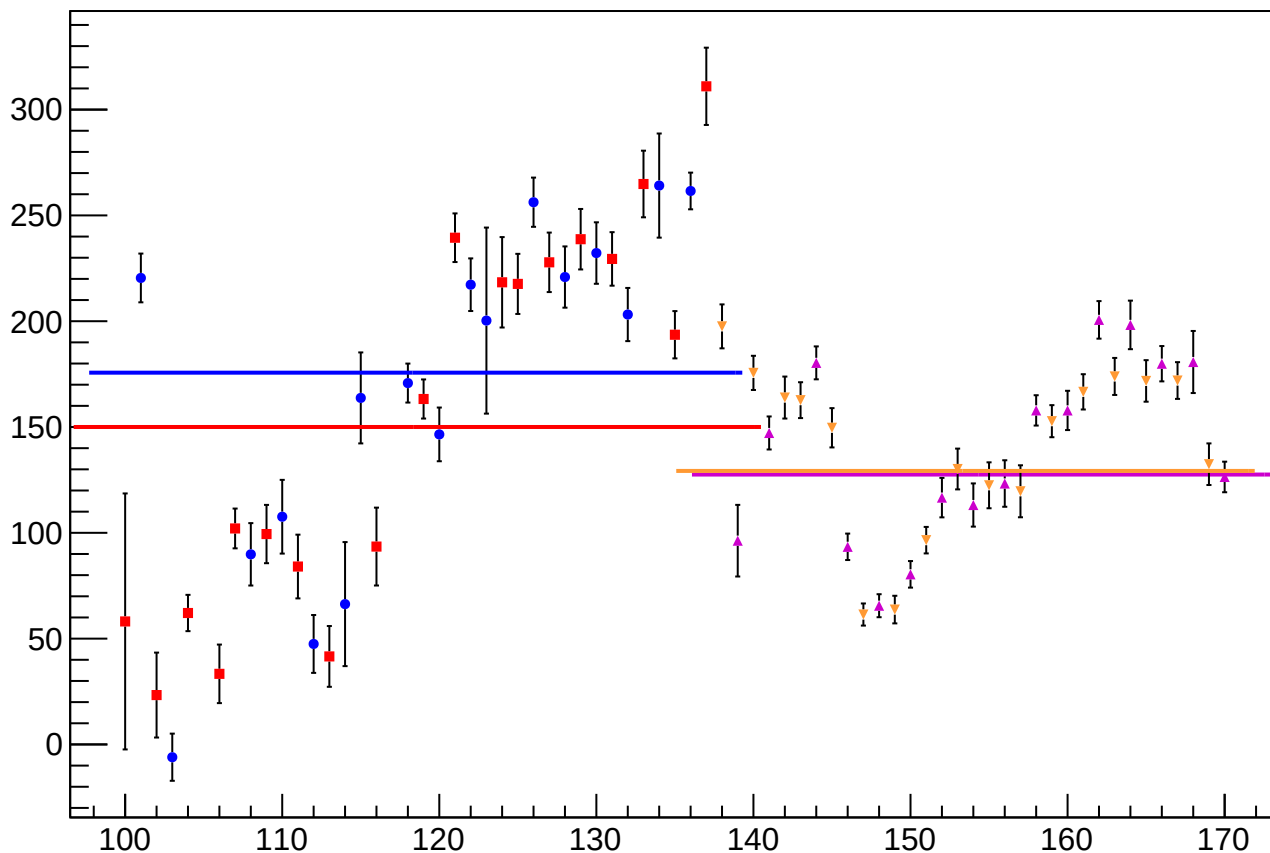
Right: 659.042 $\pm$ 3.470 χ^2 /NDF: 5725.3/35

In: 566.818 $\pm$ 2.197 χ^2 /NDF:3871.4/32

Out: 564.652 $\pm$ 2.171 χ^2 /NDF:4127.9/35

All: 565.722 $\pm$ 1.544 χ^2 /NDF: 7999.8/68

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 175.686 $\pm$ 3.239 χ^2 /NDF: 637.9/16

Left Out: 129.252 $\pm$ 1.997 χ^2 /NDF:505.4/16

Right Out: 150.017 $\pm$ 3.042 χ^2 /NDF: 693.8/18

Left In: 127.539 $\pm$ 2.040 χ^2 /NDF:462.7/15

Left: 128.414 $\pm$ 1.427 χ^2 /NDF: 968.4/32

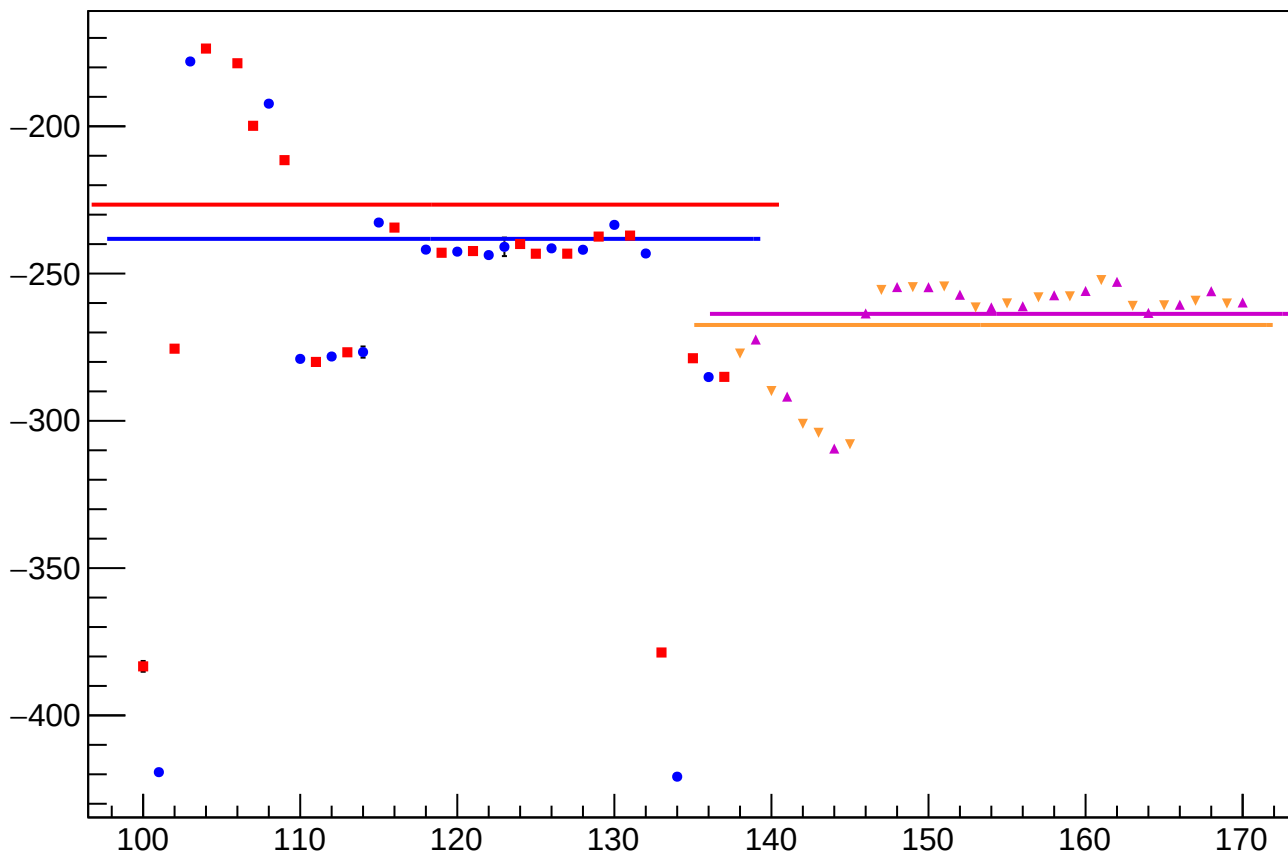
Right: 162.048 $\pm$ 2.217 χ^2 /NDF: 1365.0/35

In: 141.218 $\pm$ 1.726 χ^2 /NDF:1258.8/32

Out: 135.508 $\pm$ 1.670 χ^2 /NDF:1231.7/35

All: 138.268 $\pm$ 1.200 χ^2 /NDF: 2496.2/68

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -238.217+/-0.160 χ^2/NDF : 167120.0/16

Left Out: -267.452+/-0.098 χ^2/NDF : 32623.3/16

Right Out: -226.597+/-0.151 χ^2/NDF : 102562.3/18

Left In: -263.683+/-0.097 χ^2/NDF : 20710.7/15

Left: -265.551+/-0.069 χ^2/NDF : 54080.2/32

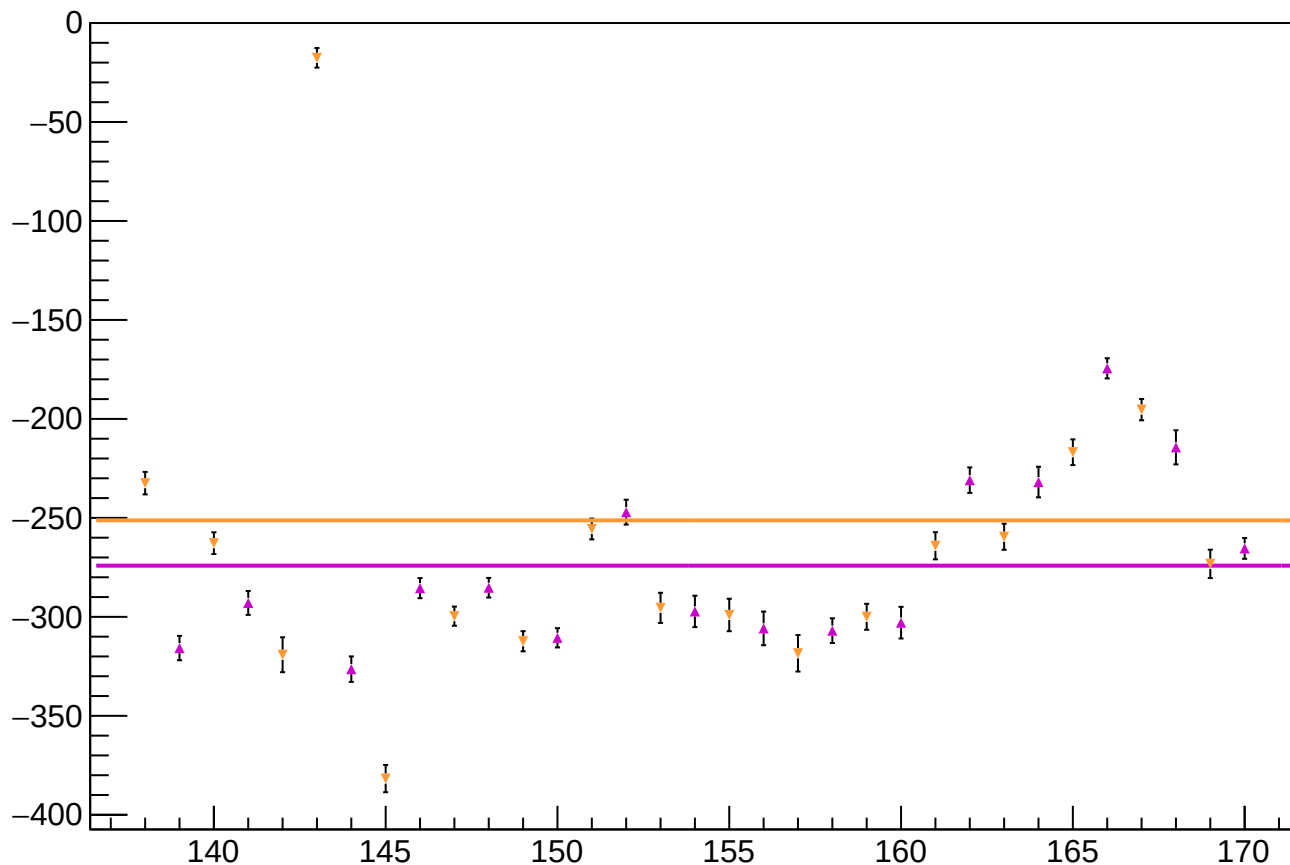
Right: -232.063+/-0.110 χ^2/NDF : 272459.7/35

In: -256.854+/-0.083 χ^2/NDF : 206264.6/32

Out: -255.375+/-0.082 χ^2/NDF : 186594.3/35

All: -256.106+/-0.058 χ^2/NDF : 393018.9/68

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -251.253+/-1.498 χ^2/NDF :3236.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -274.128+/-1.534 χ^2/NDF :778.8/15

Left: -262.419+/-1.072 χ^2/NDF : 4128.6/32

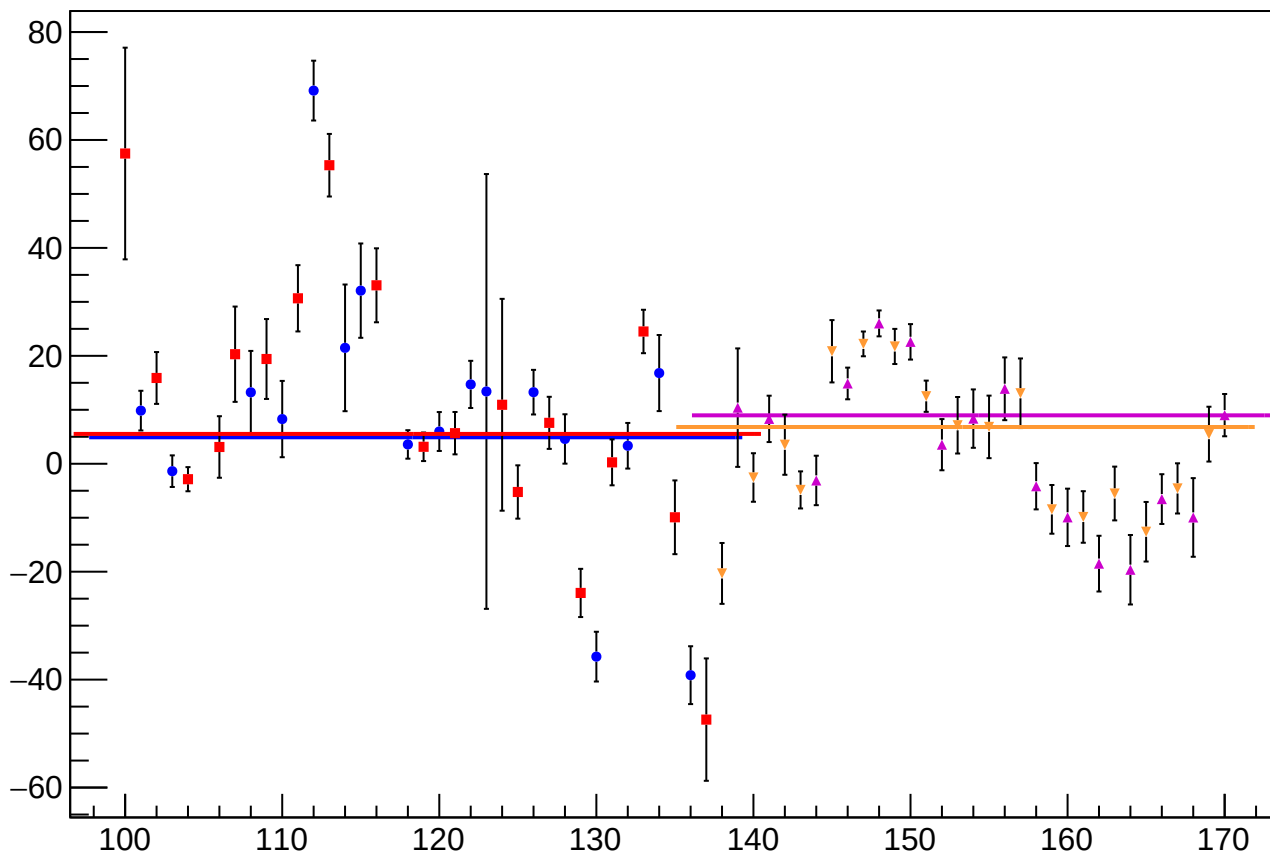
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -274.128+/-1.534 χ^2/NDF :778.8/15

Out: -251.253+/-1.498 χ^2/NDF :3236.1/16

All: -262.419+/-1.072 χ^2/NDF : 4128.6/32

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.905 ± 1.105 $\chi^2/\text{NDF}: 311.7/16$

Left Out: 6.811 ± 1.014 $\chi^2/\text{NDF}: 164.2/16$

Right Out: 5.530 ± 1.069 $\chi^2/\text{NDF}: 238.9/18$

Left In: 8.973 ± 1.064 $\chi^2/\text{NDF}: 168.8/15$

Left: 7.839 ± 0.734 $\chi^2/\text{NDF}: 335.2/32$

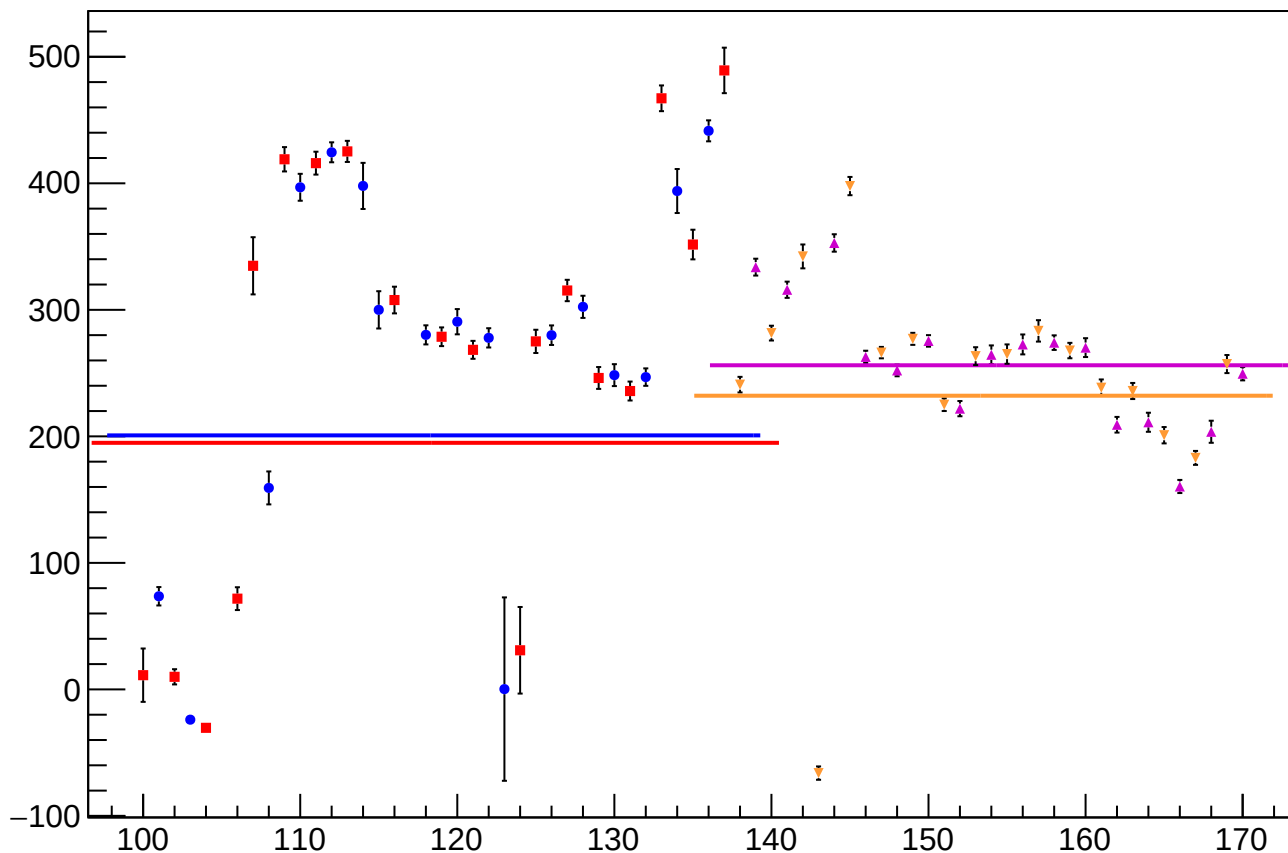
Right: 5.228 ± 0.768 $\chi^2/\text{NDF}: 550.7/35$

In: 7.016 ± 0.767 $\chi^2/\text{NDF}: 487.5/32$

Out: 6.204 ± 0.736 $\chi^2/\text{NDF}: 403.9/35$

All: 6.593 ± 0.531 $\chi^2/\text{NDF}: 892.0/68$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 200.773 $\pm$ 1.983 χ^2 /NDF: 6733.0/16

Left Out: 232.125 $\pm$ 1.478 χ^2 /NDF:4301.0/16

Right Out: 194.892 $\pm$ 1.924 χ^2 /NDF: 8247.1/18

Left In: 256.189 $\pm$ 1.499 χ^2 /NDF:963.9/15

Left: 243.991 $\pm$ 1.053 χ^2 /NDF: 5395.5/32

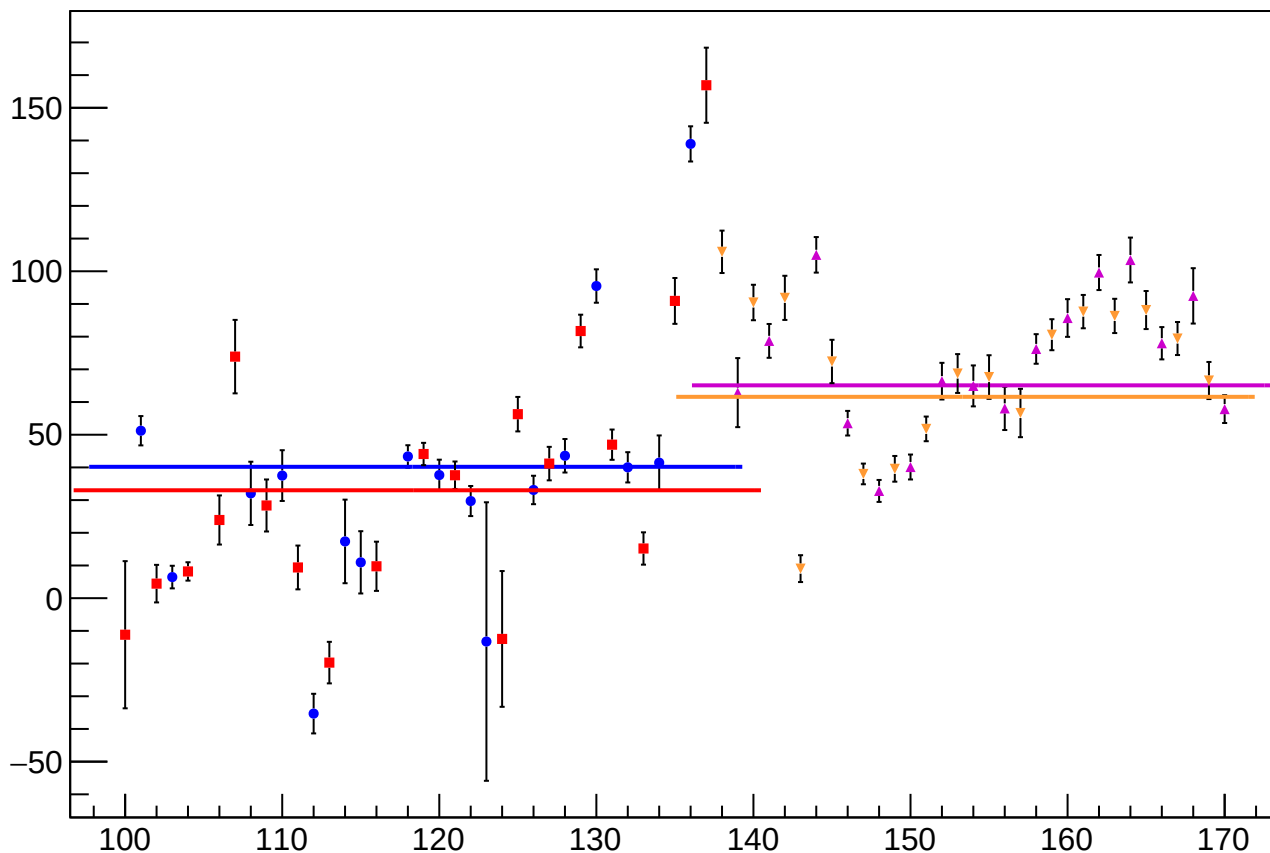
Right: 197.743 $\pm$ 1.381 χ^2 /NDF: 14984.6/35

In: 236.044 $\pm$ 1.196 χ^2 /NDF:8193.8/32

Out: 218.302 $\pm$ 1.172 χ^2 /NDF:12783.6/35

All: 226.996 $\pm$ 0.837 χ^2 /NDF: 21089.7/68

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 40.185+/-1.283 χ^2/NDF : 734.6/16

Left Out: 61.591+/-1.208 χ^2/NDF : 456.3/16

Right Out: 33.006+/-1.250 χ^2/NDF : 552.7/18

Left In: 65.104+/-1.257 χ^2/NDF : 318.4/15

Left: 63.279+/-0.871 χ^2/NDF : 778.8/32

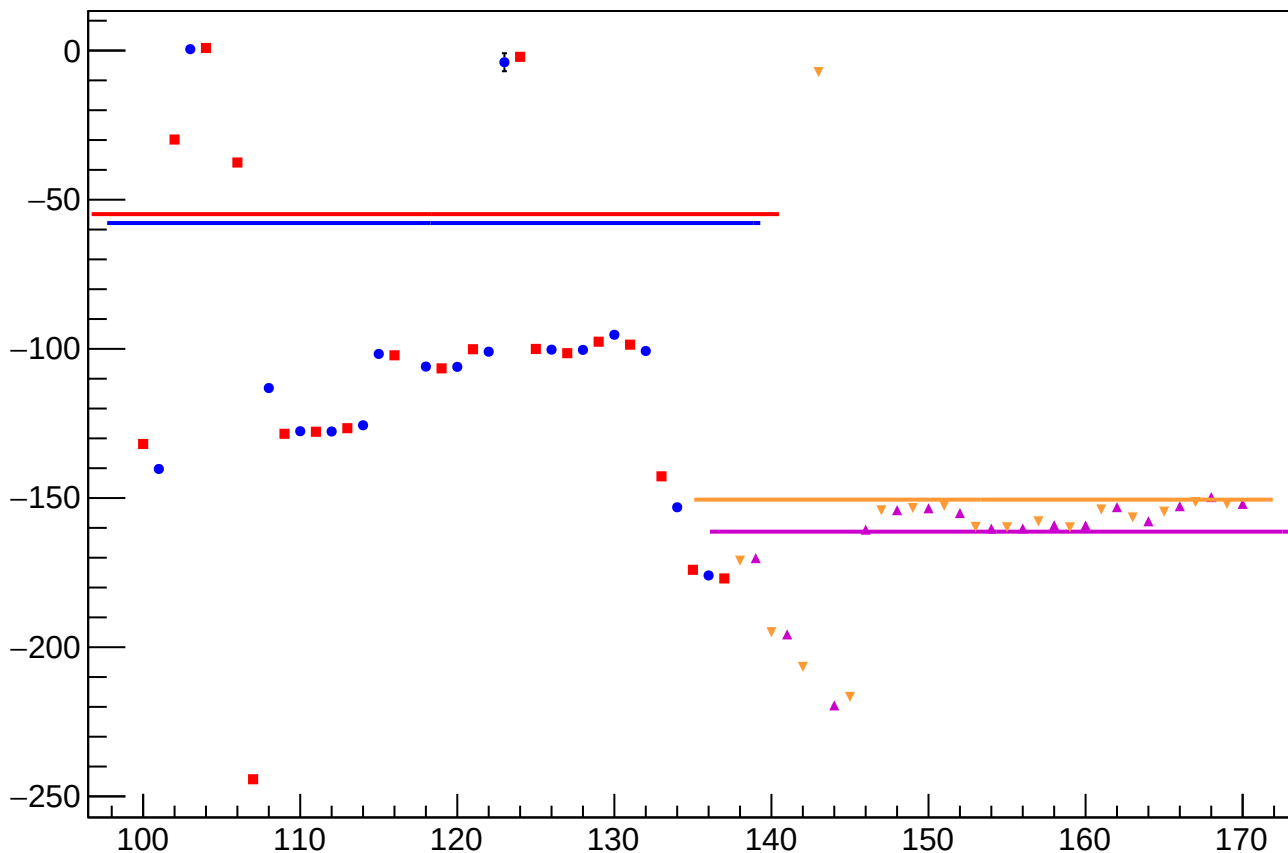
Right: 36.503+/-0.896 χ^2/NDF : 1303.3/35

In: 52.906+/-0.898 χ^2/NDF : 1245.5/32

Out: 47.785+/-0.869 χ^2/NDF : 1279.2/35

All: 50.262+/-0.624 χ^2/NDF : 2541.6/68

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -57.821 ± 0.062 $\chi^2/\text{NDF}: 1101296.2/16$

Left Out: -150.537 ± 0.059 $\chi^2/\text{NDF}: 579888.4/16$

Right Out: -54.833 ± 0.060 $\chi^2/\text{NDF}: 1000741.7/18$

Left In: -161.273 ± 0.060 $\chi^2/\text{NDF}: 66277.5/15$

Left: -155.875 ± 0.042 $\chi^2/\text{NDF}: 662449.1/32$

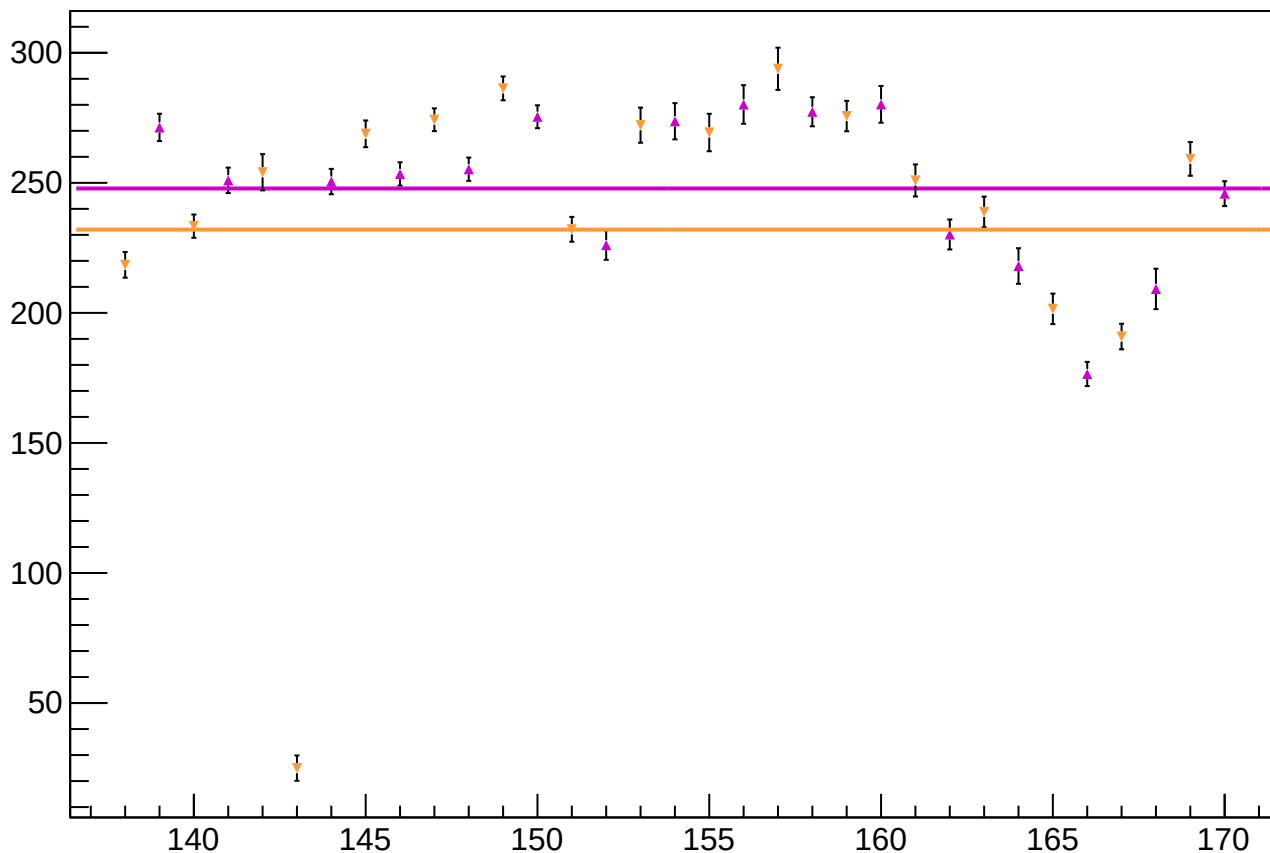
Right: -56.289 ± 0.043 $\chi^2/\text{NDF}: 2103236.7/35$

In: -111.358 ± 0.043 $\chi^2/\text{NDF}: 2618295.8/32$

Out: -103.412 ± 0.042 $\chi^2/\text{NDF}: 2862132.5/35$

All: -107.324 ± 0.030 $\chi^2/\text{NDF}: 5497830.6/68$

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 232.024+/-1.324 χ^2/NDF :2411.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 247.836+/-1.347 χ^2/NDF :449.0/15

Left: 239.794+/-0.944 χ^2/NDF : 2930.3/32

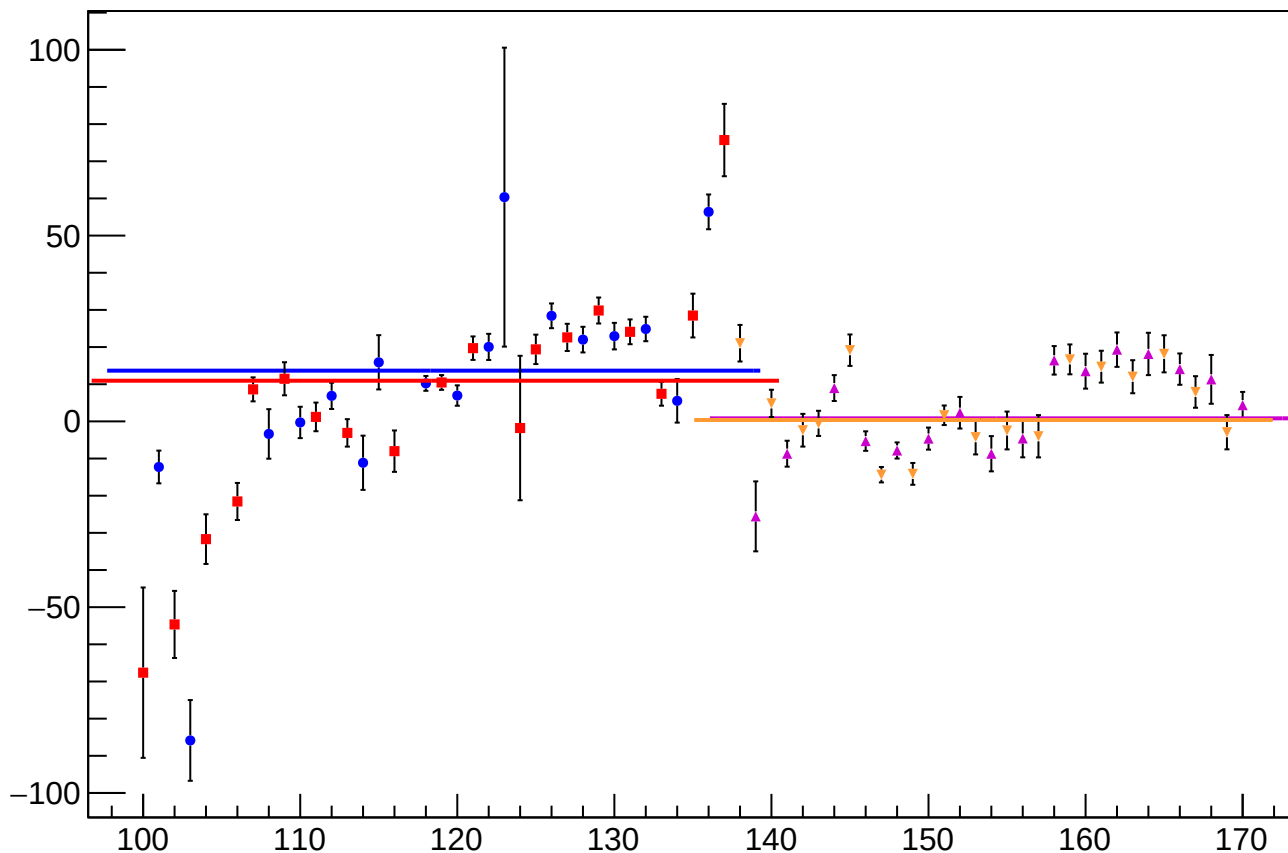
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 247.836+/-1.347 χ^2/NDF :449.0/15

Out: 232.024+/-1.324 χ^2/NDF :2411.3/16

All: 239.794+/-0.944 χ^2/NDF : 2930.3/32

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 13.652 ± 0.936 χ^2/NDF : 294.0/16

Left Out: 0.374 ± 0.902 χ^2/NDF : 167.0/16

Right Out: 10.944 ± 0.913 χ^2/NDF : 302.5/18

Left In: 0.820 ± 0.939 χ^2/NDF : 113.2/15

Left: 0.588 ± 0.651 χ^2/NDF : 280.3/32

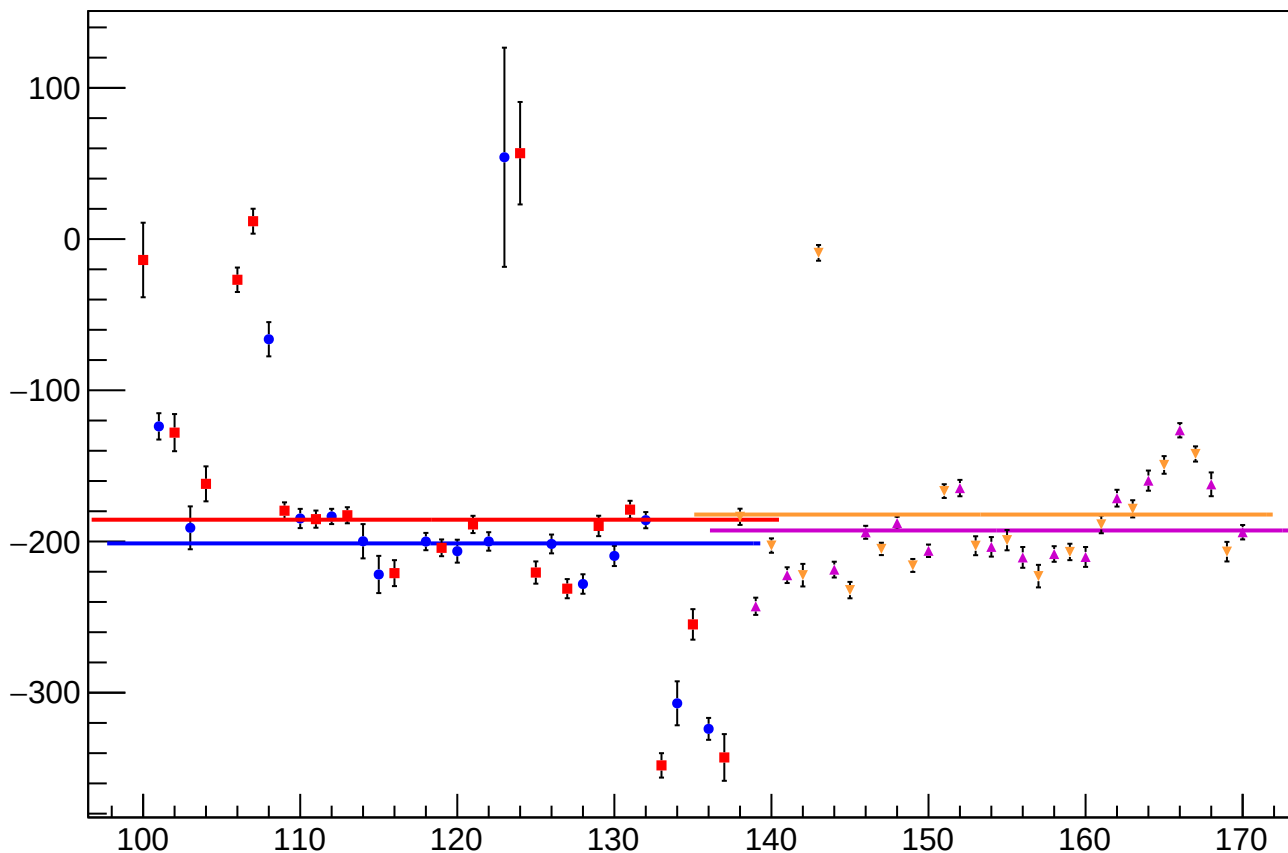
Right: 12.264 ± 0.654 χ^2/NDF : 600.9/35

In: 7.255 ± 0.663 χ^2/NDF : 500.9/32

Out: 5.596 ± 0.642 χ^2/NDF : 537.3/35

All: 6.399 ± 0.461 χ^2/NDF : 1041.4/68

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -201.266 ± 1.795 $\chi^2/\text{NDF}: 623.4/16$

Left Out: -182.182 ± 1.310 $\chi^2/\text{NDF}: 1523.7/16$

Right Out: -185.593 ± 1.699 $\chi^2/\text{NDF}: 1746.0/18$

Left In: -192.712 ± 1.320 $\chi^2/\text{NDF}: 448.9/15$

Left: -187.405 ± 0.930 $\chi^2/\text{NDF}: 2004.7/32$

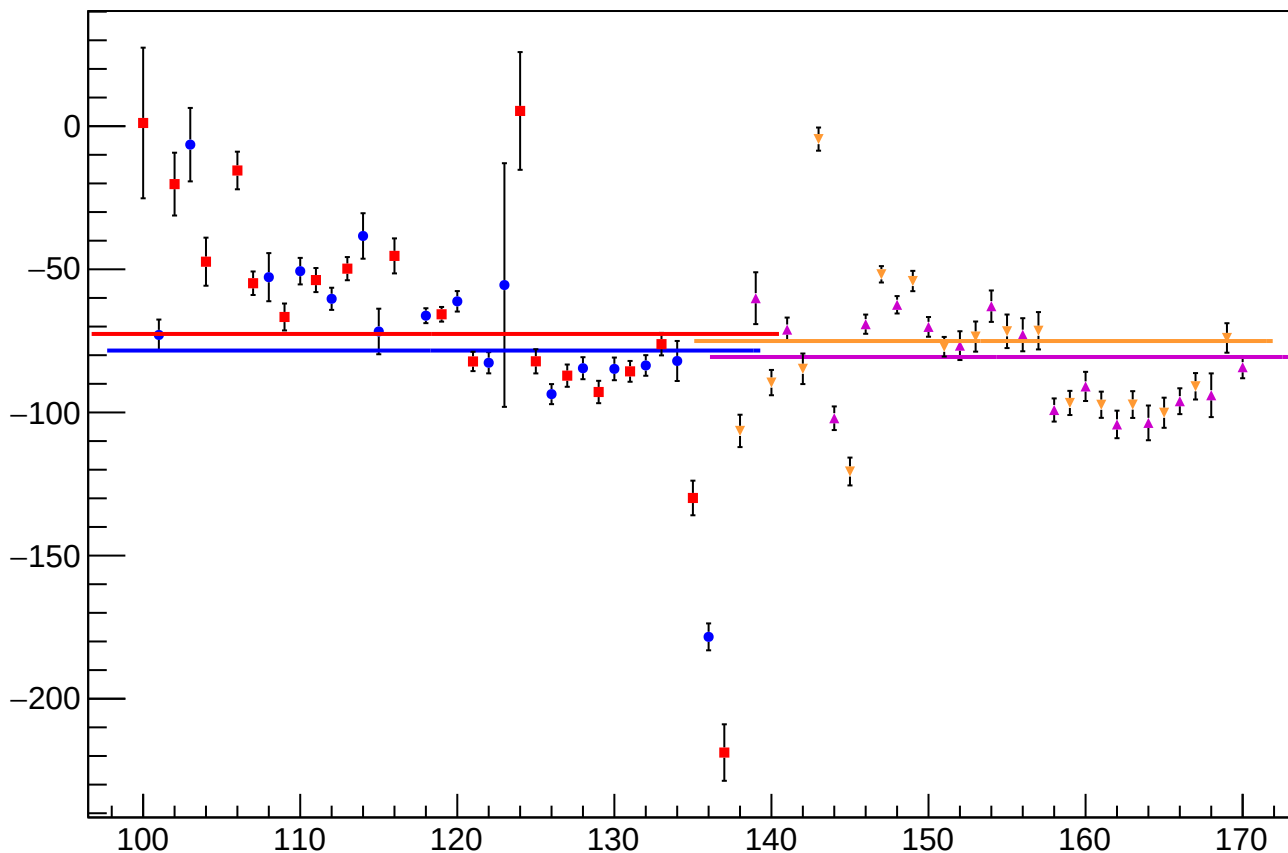
Right: -192.999 ± 1.234 $\chi^2/\text{NDF}: 2409.6/35$

In: -195.714 ± 1.064 $\chi^2/\text{NDF}: 1087.0/32$

Out: -183.453 ± 1.037 $\chi^2/\text{NDF}: 3272.3/35$

All: -189.431 ± 0.743 $\chi^2/\text{NDF}: 4427.4/68$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -78.376 ± 1.081 χ^2/NDF : 651.4/16

Left Out: -75.051 ± 1.074 χ^2/NDF : 645.9/16

Right Out: -72.577 ± 1.052 χ^2/NDF : 605.8/18

Left In: -80.625 ± 1.108 χ^2/NDF : 186.1/15

Left: -77.752 ± 0.771 χ^2/NDF : 845.0/32

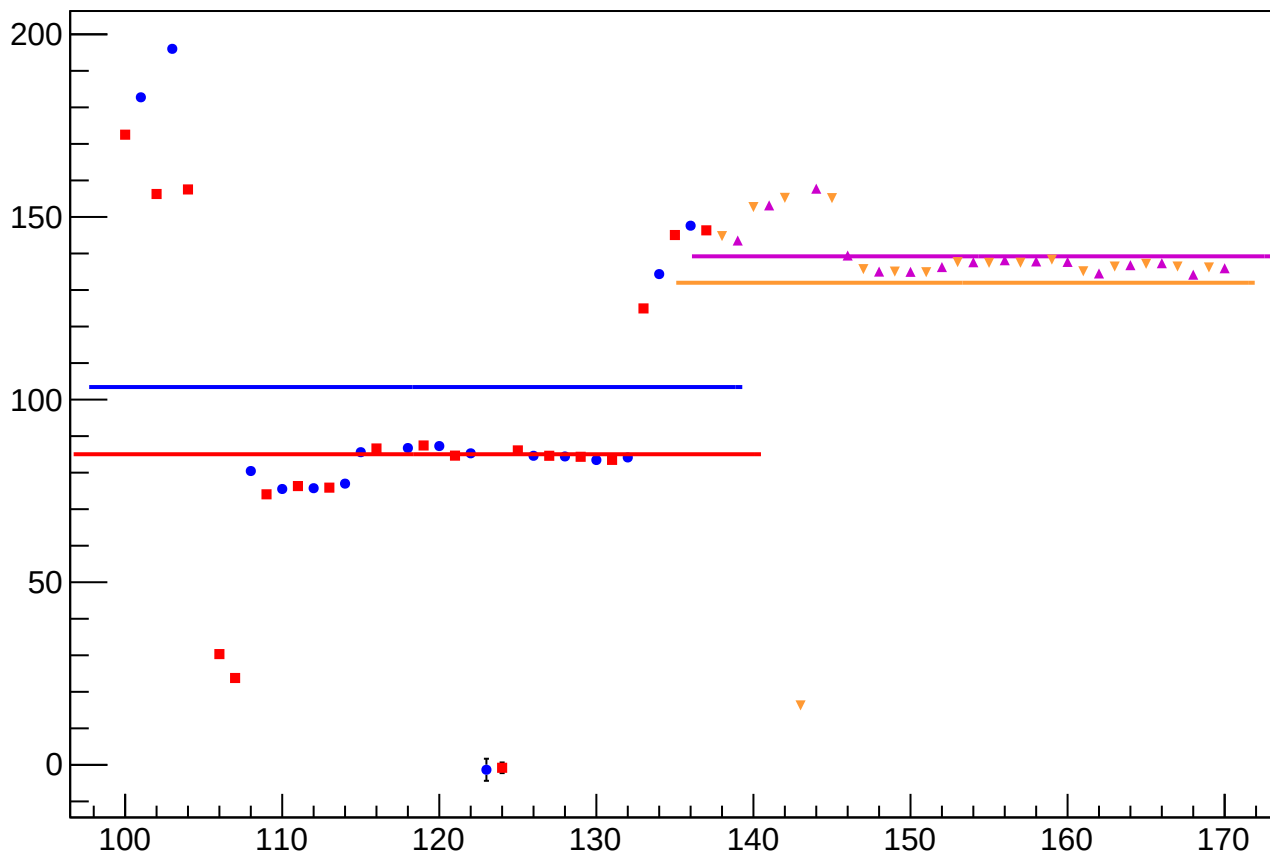
Right: -75.395 ± 0.754 χ^2/NDF : 1272.0/35

In: -79.473 ± 0.774 χ^2/NDF : 839.6/32

Out: -73.788 ± 0.751 χ^2/NDF : 1254.4/35

All: -76.547 ± 0.539 χ^2/NDF : 2121.8/68

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 103.436 $\pm$ 0.071 χ^2 /NDF: 272785.6/16

Left Out: 131.991 $\pm$ 0.053 χ^2 /NDF:346386.2/16

Right Out: 85.043 $\pm$ 0.064 χ^2 /NDF: 422343.0/18

Left In: 139.223 $\pm$ 0.053 χ^2 /NDF:14165.2/15

Left: 135.604 $\pm$ 0.037 χ^2 /NDF: 370023.8/32

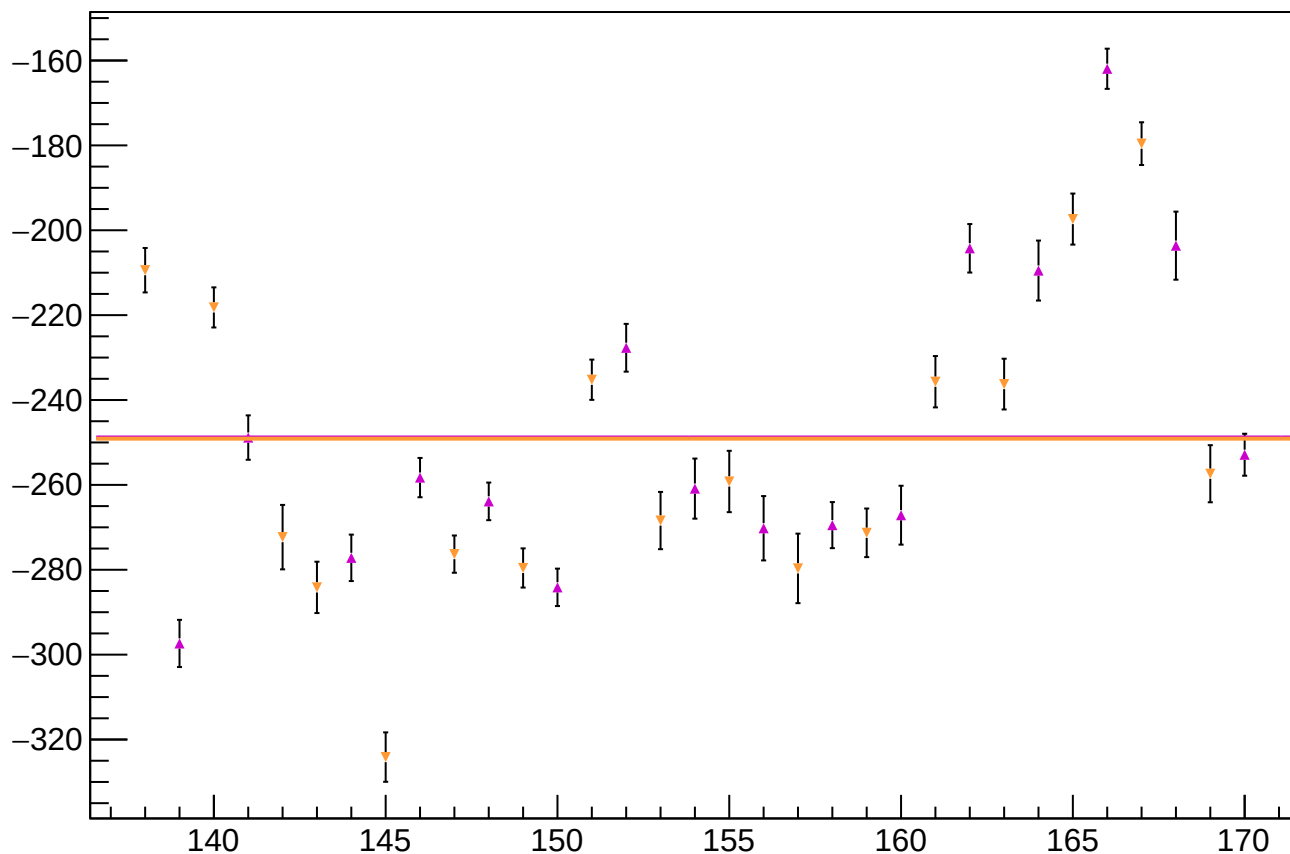
Right: 93.267 $\pm$ 0.047 χ^2 /NDF: 732362.9/35

In: 126.524 $\pm$ 0.042 χ^2 /NDF:451413.2/32

Out: 113.005 $\pm$ 0.041 χ^2 /NDF:1091849.6/35

All: 119.489 $\pm$ 0.029 χ^2 /NDF: 1596607.8/68

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -249.103+/-1.374 χ^2/NDF : 714.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -248.831+/-1.378 χ^2/NDF : 690.3/15

Left: -248.967+/-0.973 χ^2/NDF : 1404.6/32

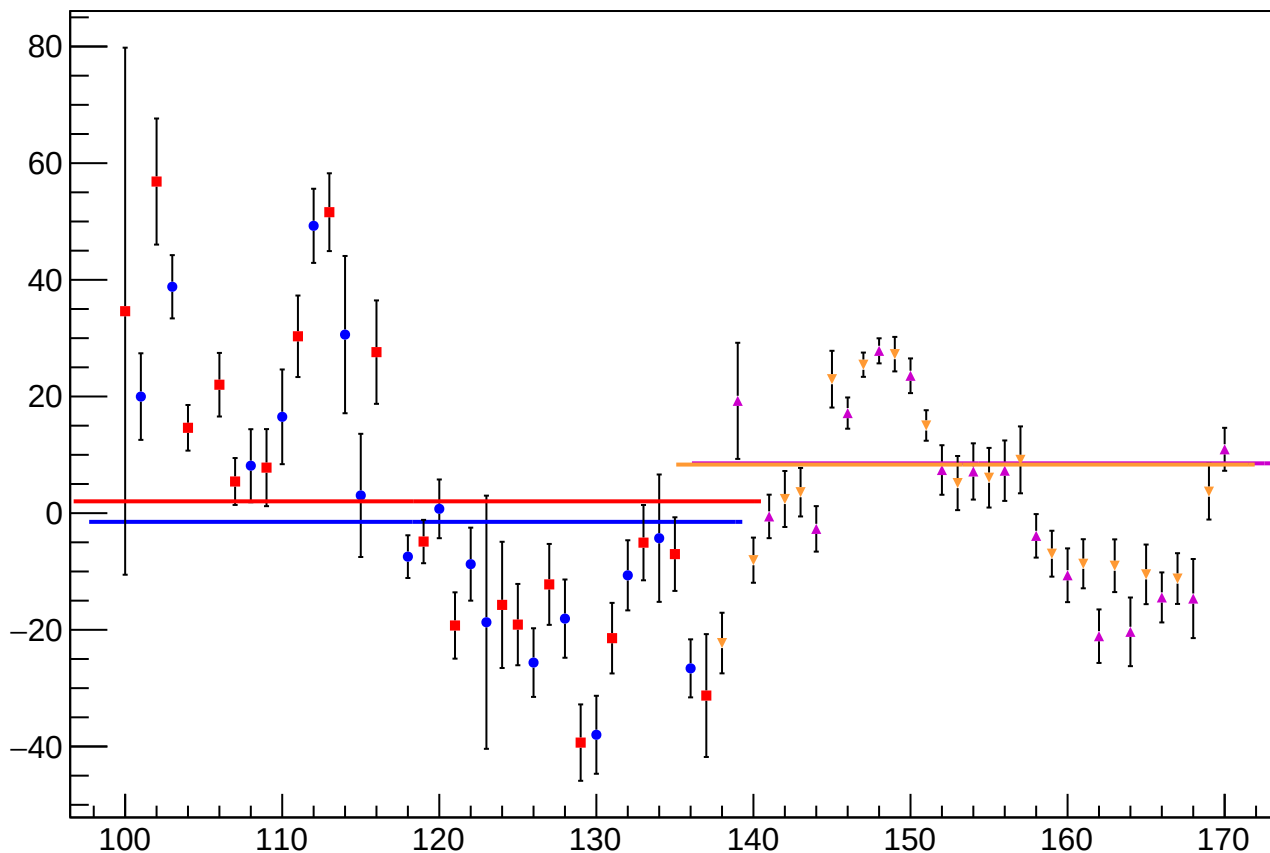
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -248.831+/-1.378 χ^2/NDF : 690.3/15

Out: -249.103+/-1.374 χ^2/NDF : 714.3/16

All: -248.967+/-0.973 χ^2/NDF : 1404.6/32

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.490 ± 1.536 $\chi^2/\text{NDF}: 226.0/16$

Left Out: 8.329 ± 0.929 $\chi^2/\text{NDF}: 261.2/16$

Right Out: 2.028 ± 1.400 $\chi^2/\text{NDF}: 233.3/18$

Left In: 8.541 ± 0.955 $\chi^2/\text{NDF}: 267.0/15$

Left: 8.432 ± 0.666 $\chi^2/\text{NDF}: 528.3/32$

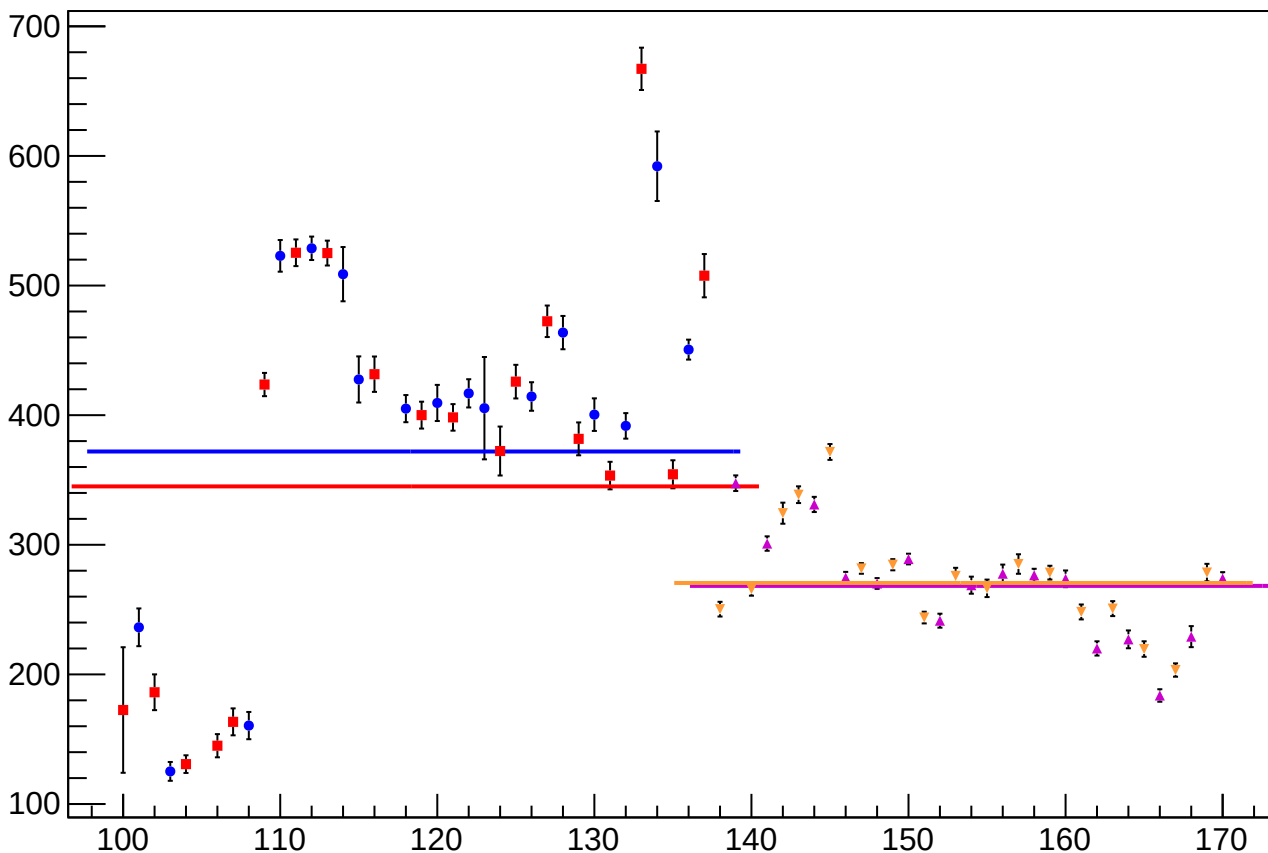
Right: 0.432 ± 1.035 $\chi^2/\text{NDF}: 462.1/35$

In: 5.747 ± 0.811 $\chi^2/\text{NDF}: 523.8/32$

Out: 6.402 ± 0.774 $\chi^2/\text{NDF}: 508.6/35$

All: 6.090 ± 0.560 $\chi^2/\text{NDF}: 1032.7/68$

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 371.975+/-2.778 χ^2/NDF : 2432.6/16

Left Out: 270.541+/-1.352 χ^2/NDF : 773.1/16

Right Out: 345.043+/-2.562 χ^2/NDF : 3415.2/18

Left In: 268.278+/-1.346 χ^2/NDF : 824.7/15

Left: 269.405+/-0.954 χ^2/NDF : 1599.3/32

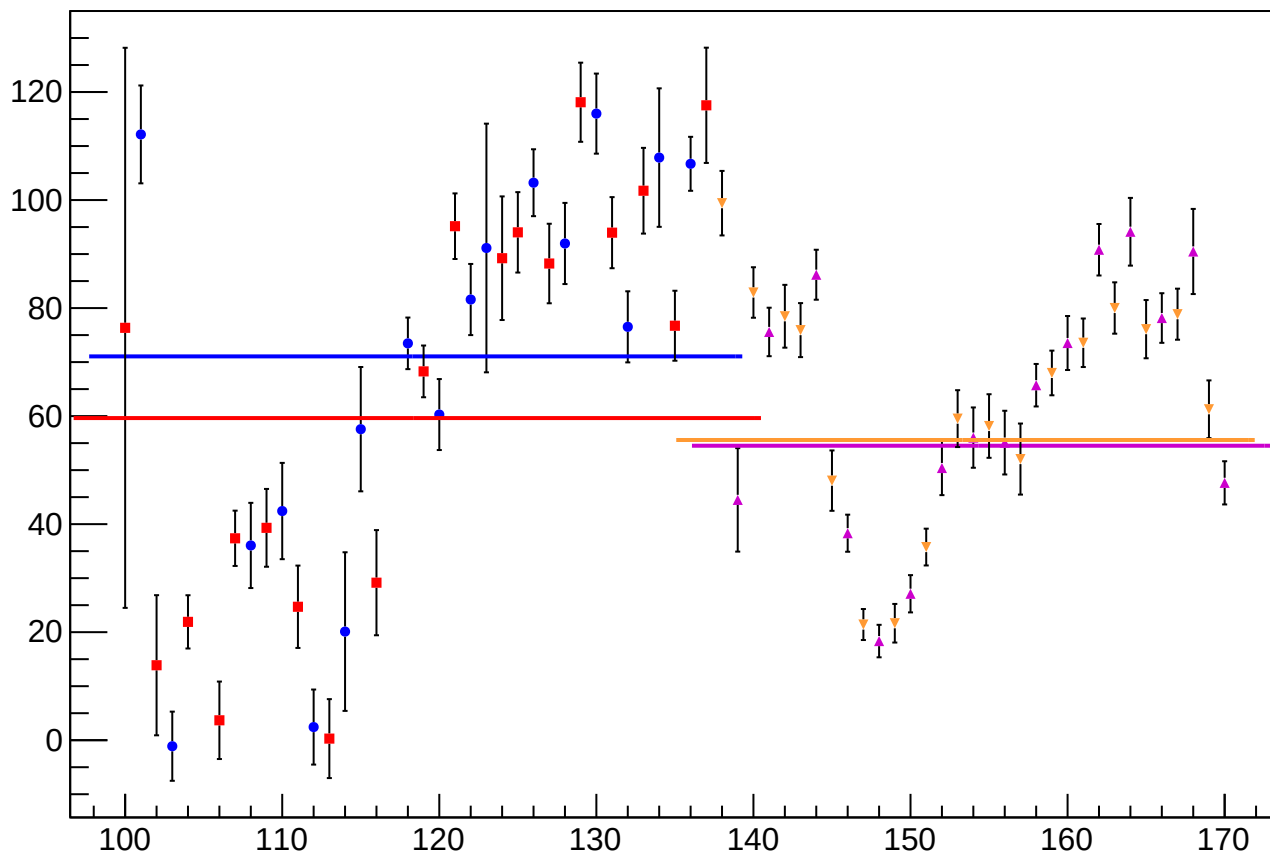
Right: 357.423+/-1.883 χ^2/NDF : 5898.6/35

In: 288.008+/-1.212 χ^2/NDF : 4385.9/32

Out: 286.772+/-1.196 χ^2/NDF : 4849.6/35

All: 287.382+/-0.851 χ^2/NDF : 9236.0/68

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 71.056 $\pm$ 1.764 χ^2 /NDF: 426.2/16

Left Out: 55.578 $\pm$ 1.107 χ^2 /NDF:480.0/16

Right Out: 59.637 $\pm$ 1.631 χ^2 /NDF: 491.6/18

Left In: 54.517 $\pm$ 1.127 χ^2 /NDF:471.4/15

Left: 55.057 $\pm$ 0.790 χ^2 /NDF: 951.9/32

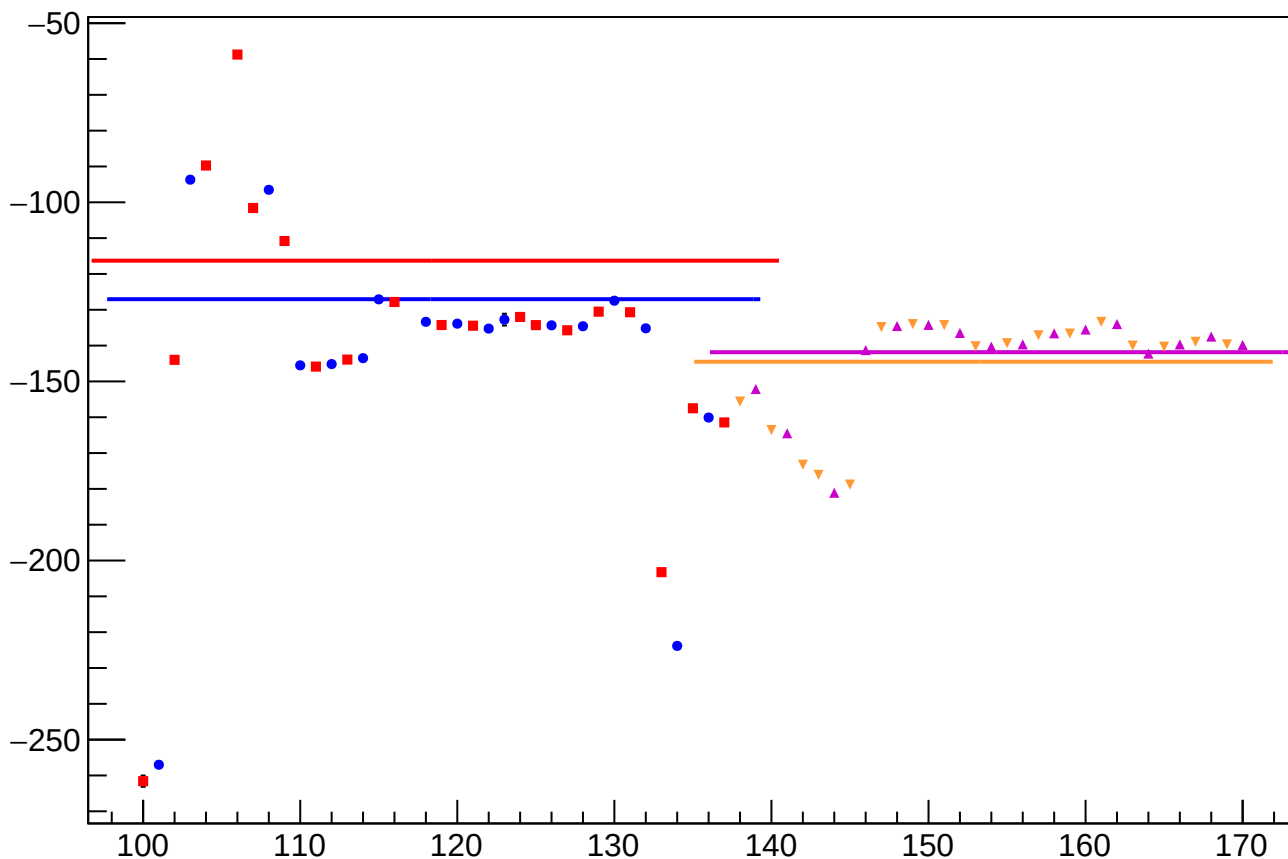
Right: 64.900 $\pm$ 1.198 χ^2 /NDF: 940.4/35

In: 59.311 $\pm$ 0.950 χ^2 /NDF:960.0/32

Out: 56.859 $\pm$ 0.916 χ^2 /NDF:975.9/35

All: 58.040 $\pm$ 0.659 χ^2 /NDF: 1939.4/68

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -127.049 ± 0.090 $\chi^2/\text{NDF}: 167014.4/16$

Left Out: -144.512 ± 0.054 $\chi^2/\text{NDF}: 68892.7/16$

Right Out: -116.295 ± 0.083 $\chi^2/\text{NDF}: 167109.1/18$

Left In: -141.842 ± 0.054 $\chi^2/\text{NDF}: 43571.4/15$

Left: -143.160 ± 0.038 $\chi^2/\text{NDF}: 113691.6/32$

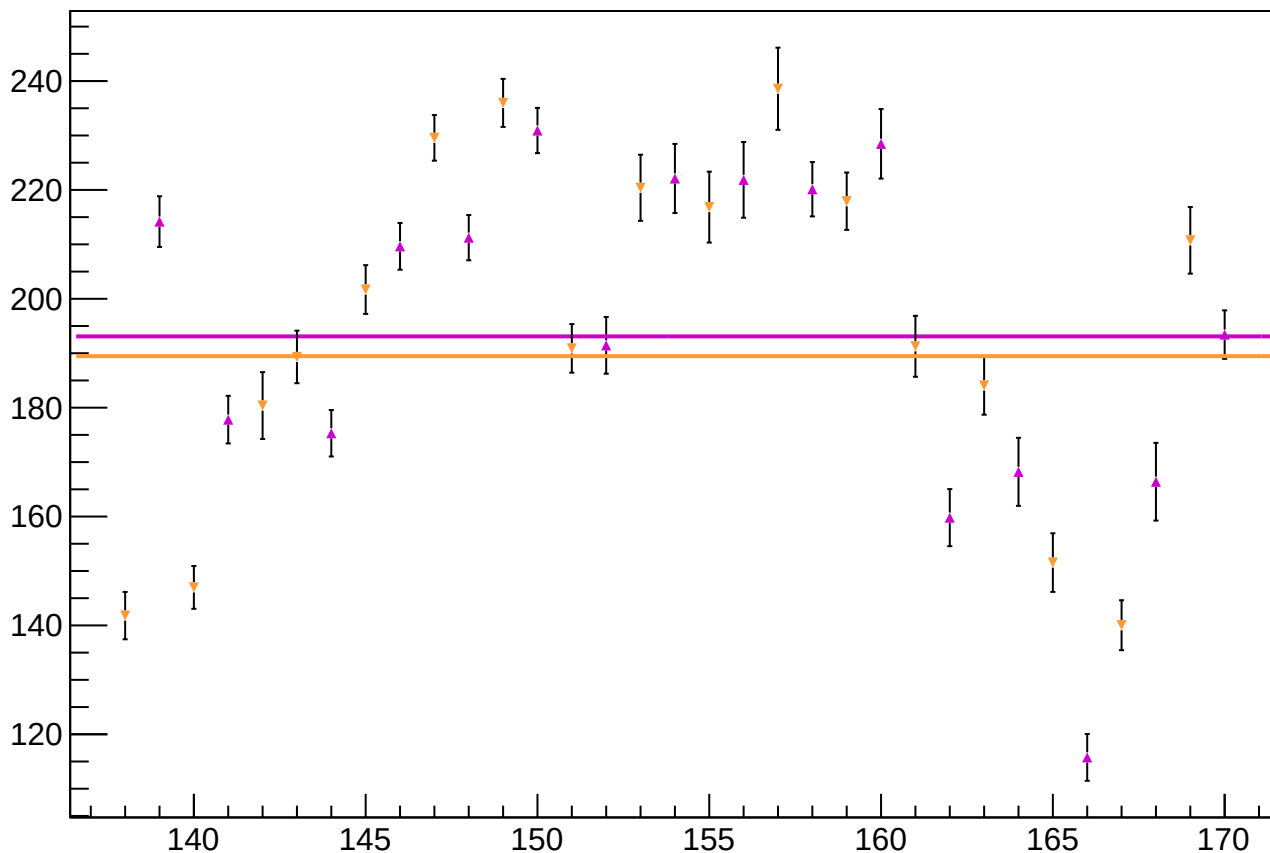
Right: -121.250 ± 0.061 $\chi^2/\text{NDF}: 341860.6/35$

In: -137.958 ± 0.046 $\chi^2/\text{NDF}: 230607.4/32$

Out: -136.067 ± 0.045 $\chi^2/\text{NDF}: 317018.3/35$

All: -137.000 ± 0.032 $\chi^2/\text{NDF}: 548481.7/68$

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

Left Out: 189.460 $\pm$ 1.217 χ^2/NDF : 743.5/16

Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

Left In: 193.095 $\pm$ 1.235 χ^2/NDF : 658.1/15

Left: 191.252 $\pm$ 0.867 χ^2/NDF : 1406.0/32

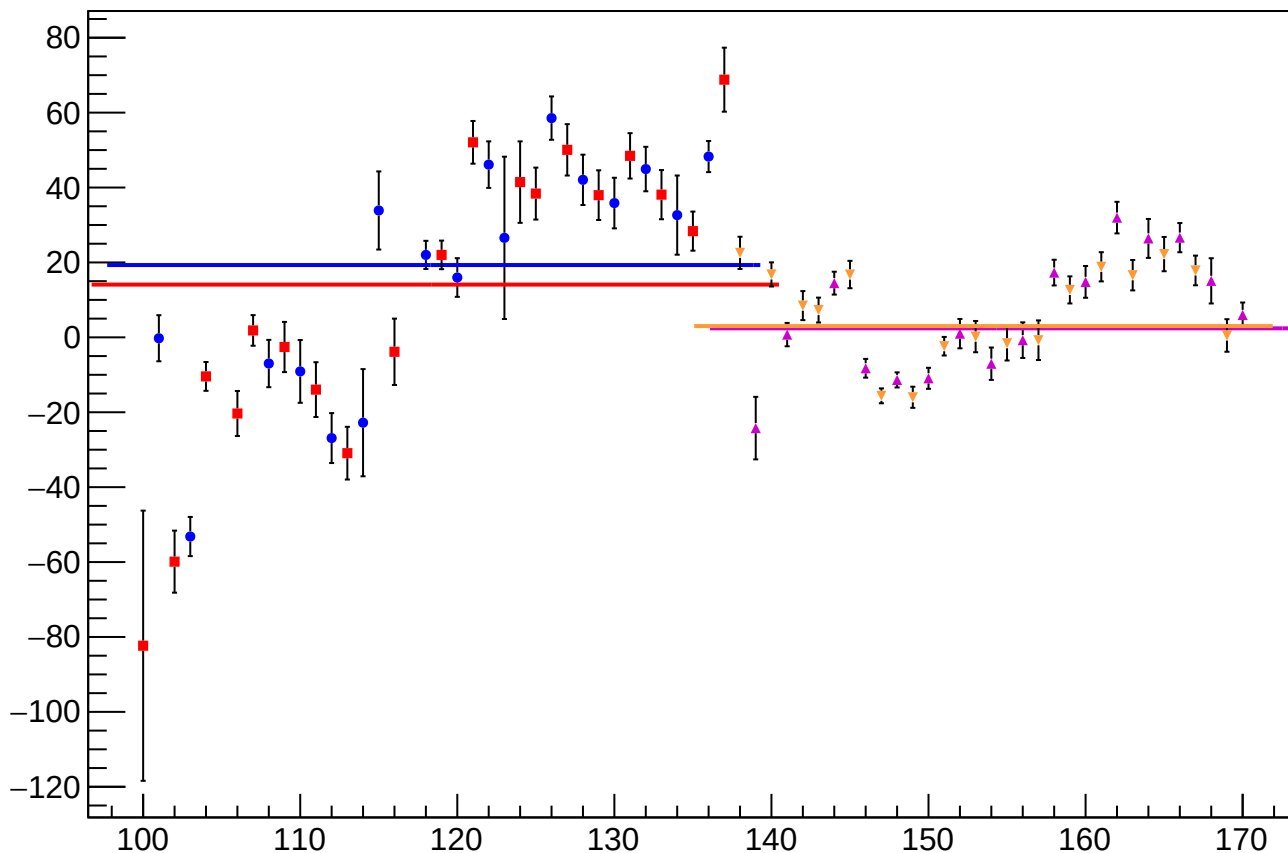
Right: 0.000 $\pm$ 0.000 χ^2/NDF : 0.0/0

In: 193.095 $\pm$ 1.235 χ^2/NDF : 658.1/15

Out: 189.460 $\pm$ 1.217 χ^2/NDF : 743.5/16

All: 191.252 $\pm$ 0.867 χ^2/NDF : 1406.0/32

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 19.308 ± 1.500 χ^2/NDF : 441.3/16

Left Out: 3.013 ± 0.836 χ^2/NDF : 263.6/16

Right Out: 14.083 ± 1.390 χ^2/NDF : 436.9/18

Left In: 2.403 ± 0.864 χ^2/NDF : 261.0/15

Left: 2.718 ± 0.601 χ^2/NDF : 524.9/32

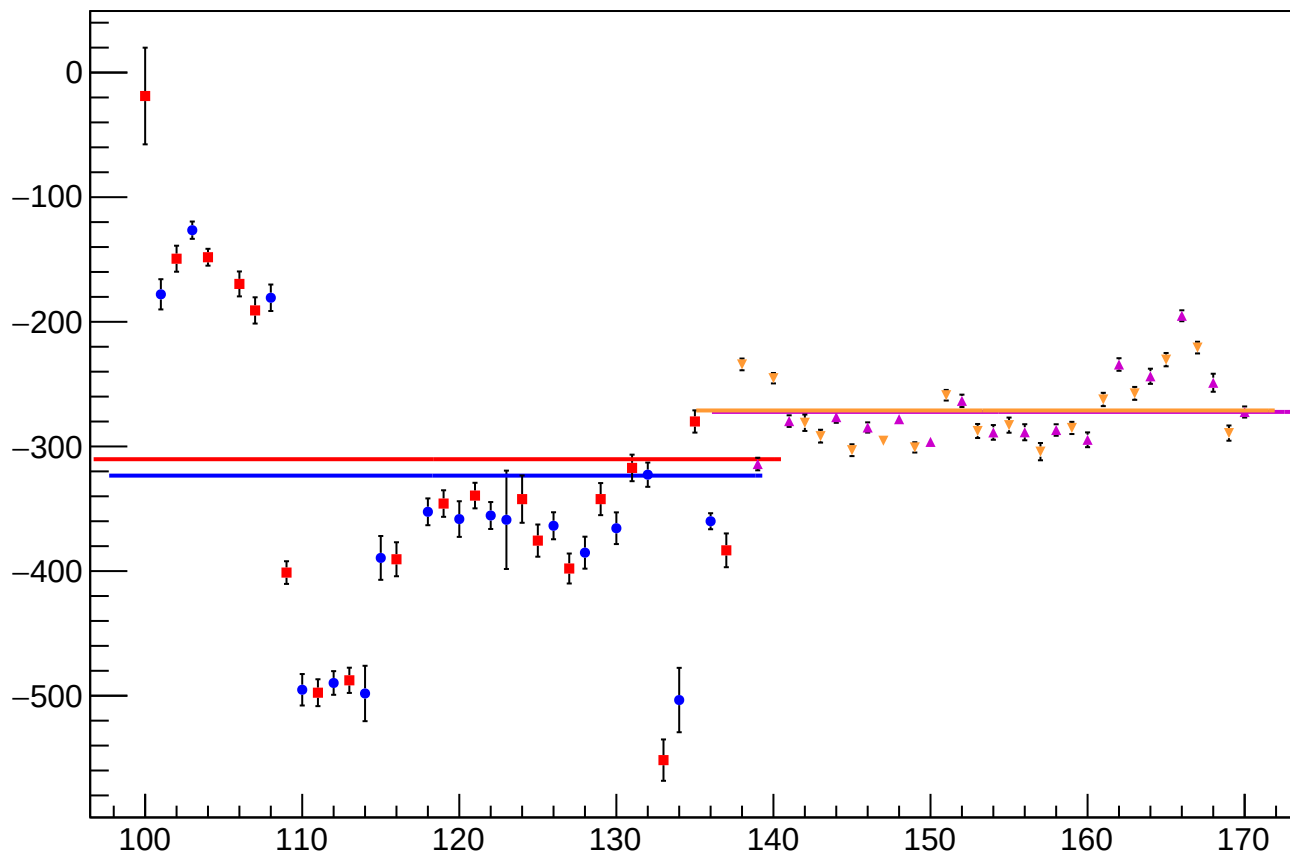
Right: 16.496 ± 1.020 χ^2/NDF : 884.7/35

In: 6.617 ± 0.749 χ^2/NDF : 797.5/32

Out: 5.953 ± 0.716 χ^2/NDF : 747.1/35

All: 6.270 ± 0.518 χ^2/NDF : 1545.1/68

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -323.402 $\pm$ 2.684 χ^2 /NDF: 1849.6/16

Left Out: -271.127 $\pm$ 1.206 χ^2 /NDF: 496.5/16

Right Out: -310.236 $\pm$ 2.523 χ^2 /NDF: 2298.8/18

Left In: -272.281 $\pm$ 1.212 χ^2 /NDF: 562.7/15

Left: -271.701 $\pm$ 0.855 χ^2 /NDF: 1059.7/32

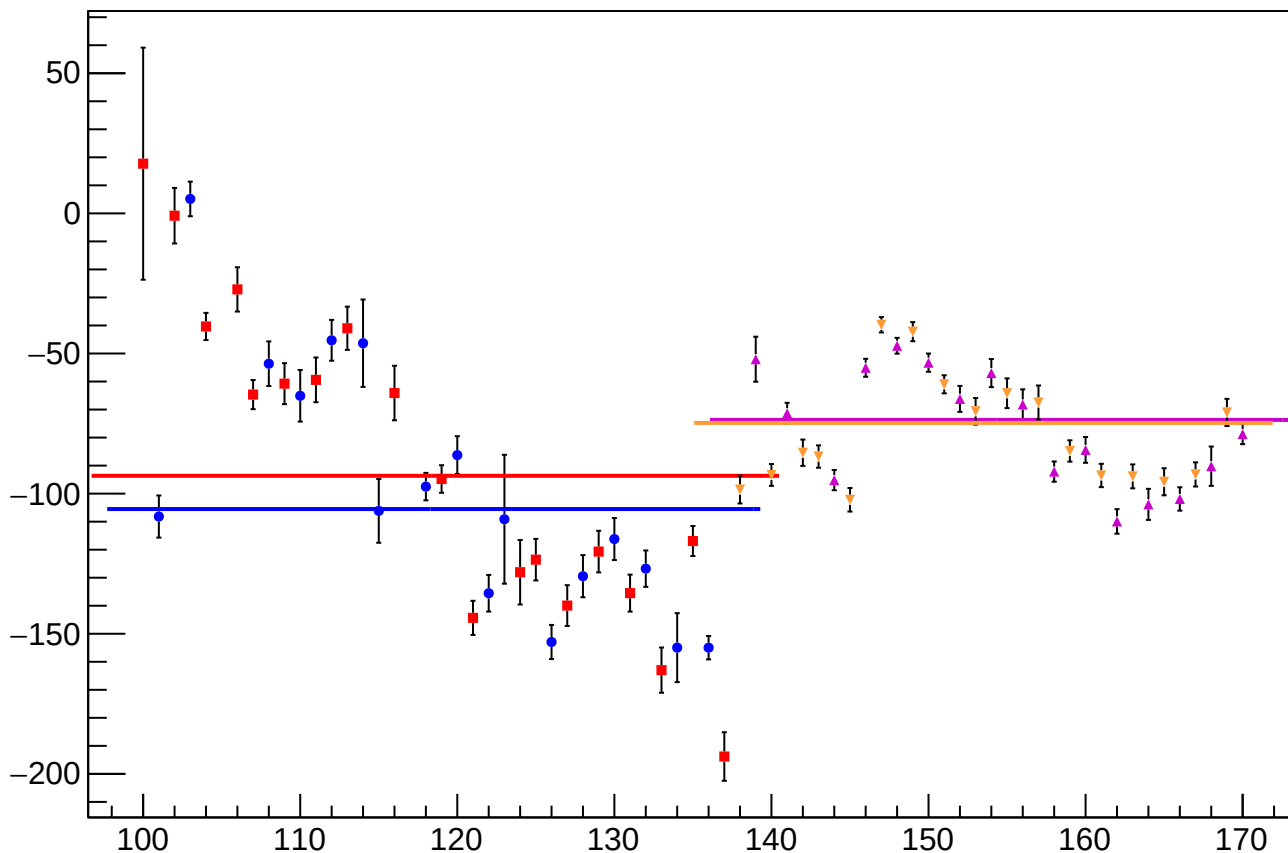
Right: -316.413 $\pm$ 1.838 χ^2 /NDF: 4161.2/35

In: -280.938 $\pm$ 1.105 χ^2 /NDF: 2713.7/32

Out: -278.401 $\pm$ 1.088 χ^2 /NDF: 2990.9/35

All: -279.651 $\pm$ 0.775 χ^2 /NDF: 5707.2/68

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -105.496 ± 1.712 χ^2/NDF : 737.3/16

Left Out: -74.761 ± 0.992 χ^2/NDF : 466.7/16

Right Out: -93.637 ± 1.610 χ^2/NDF : 827.1/18

Left In: -73.696 ± 1.018 χ^2/NDF : 401.4/15

Left: -74.242 ± 0.711 χ^2/NDF : 868.6/32

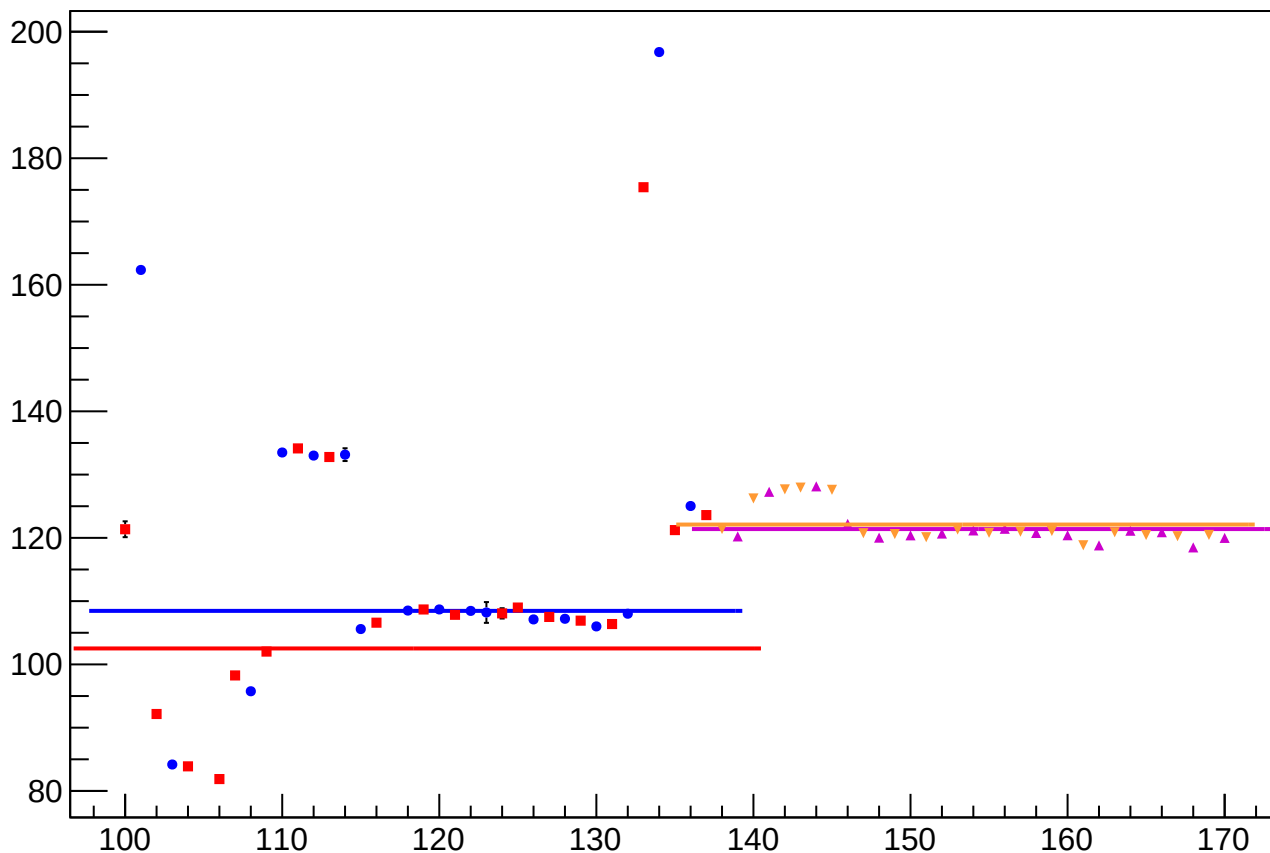
Right: -99.203 ± 1.173 χ^2/NDF : 1589.9/35

In: -82.006 ± 0.875 χ^2/NDF : 1393.6/32

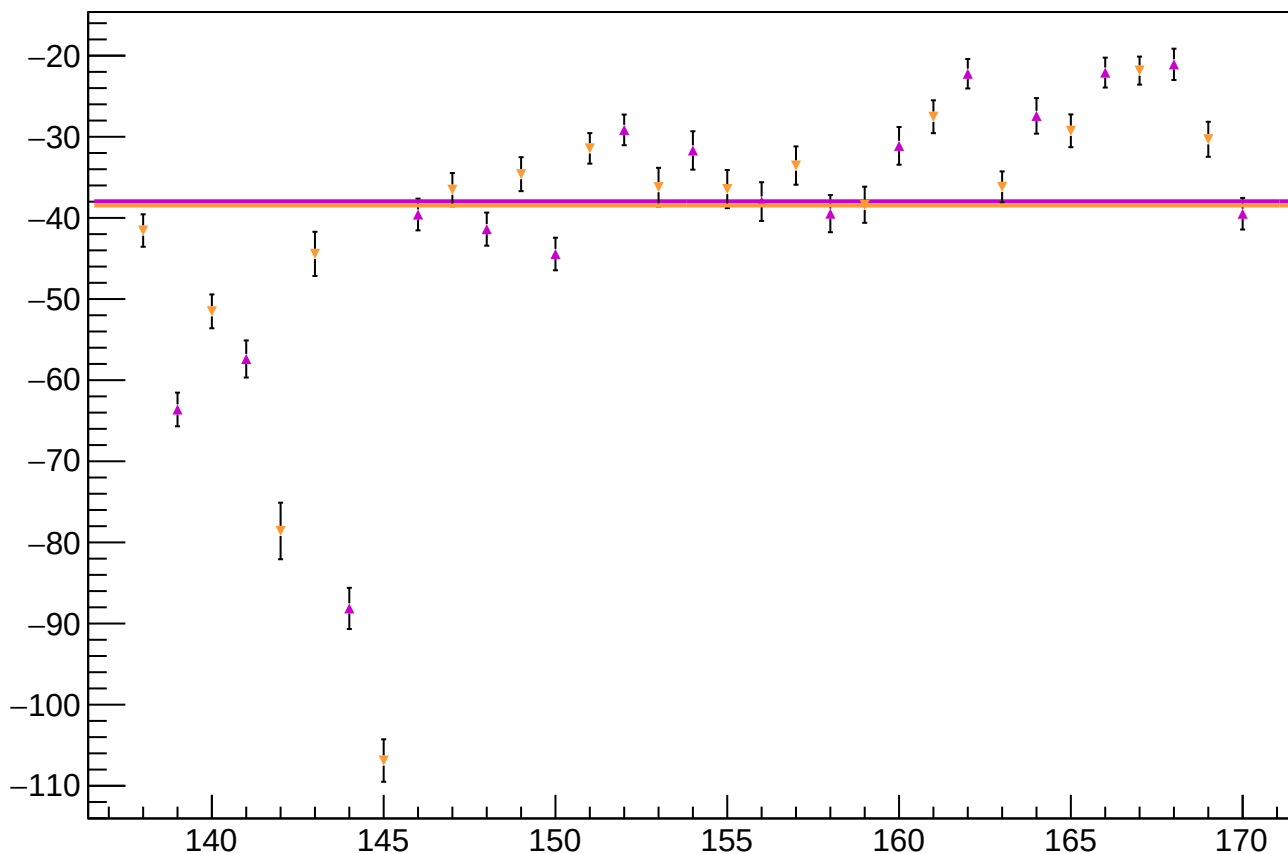
Out: -79.957 ± 0.845 χ^2/NDF : 1393.3/35

All: -80.945 ± 0.608 χ^2/NDF : 2789.8/68

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -38.467+/-0.524 χ^2/NDF :1043.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -37.951+/-0.521 χ^2/NDF :917.2/15

Left: -38.208+/-0.370 χ^2/NDF : 1961.3/32

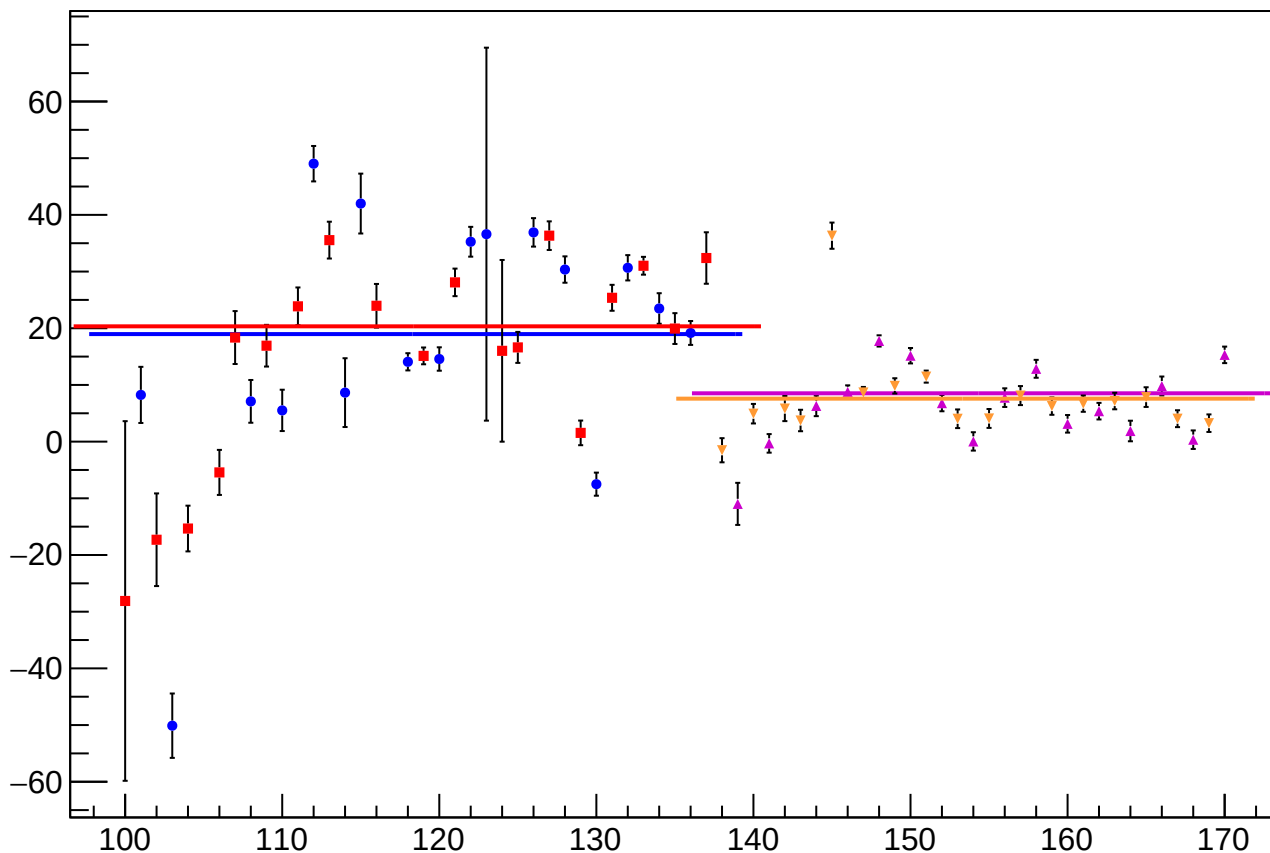
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -37.951+/-0.521 χ^2/NDF :917.2/15

Out: -38.467+/-0.524 χ^2/NDF :1043.6/16

All: -38.208+/-0.370 χ^2/NDF : 1961.3/32

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.970 $\pm$ 0.653 χ^2 /NDF: 618.4/16

Left Out: 7.580 $\pm$ 0.368 χ^2 /NDF:221.4/16

Right Out: 20.338 $\pm$ 0.642 χ^2 /NDF: 366.4/18

Left In: 8.525 $\pm$ 0.375 χ^2 /NDF:282.7/15

Left: 8.043 $\pm$ 0.263 χ^2 /NDF: 507.4/32

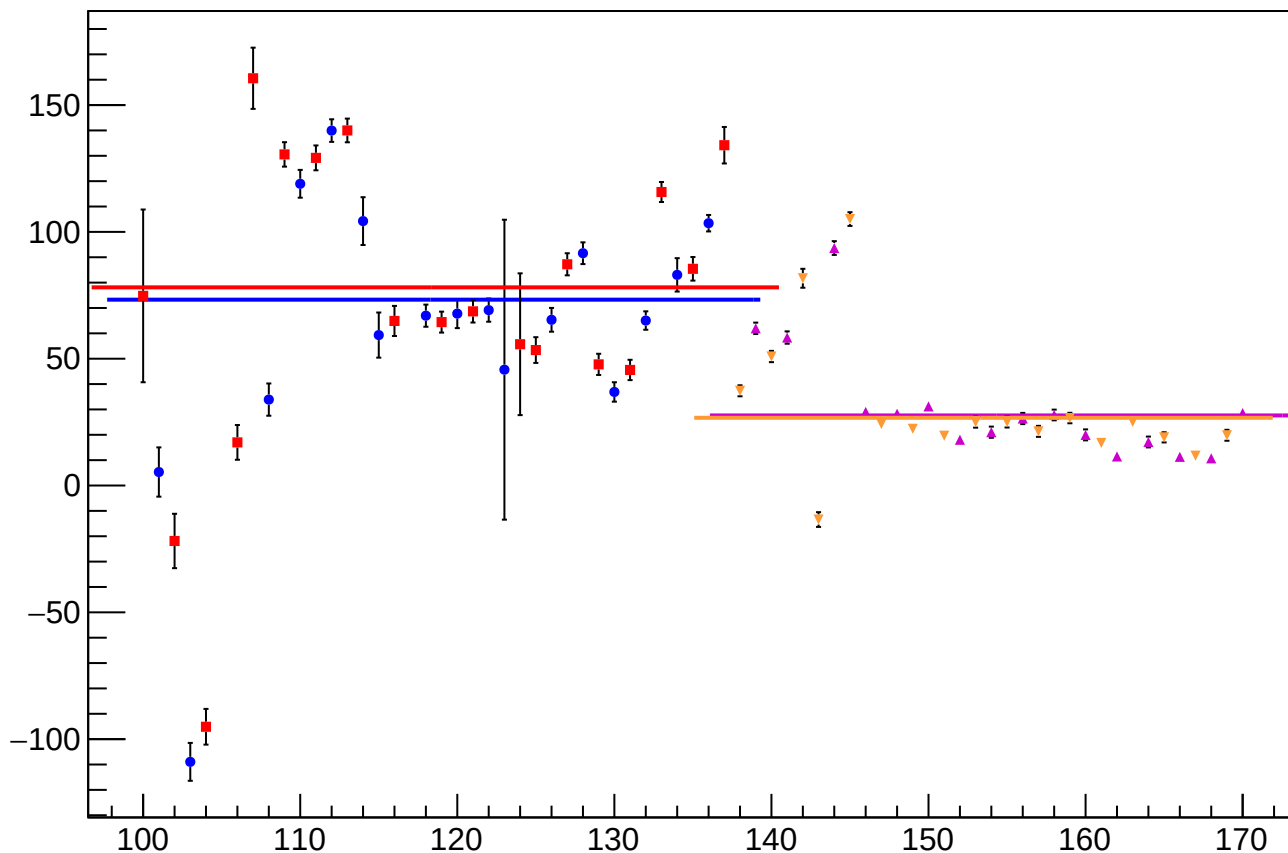
Right: 19.666 $\pm$ 0.458 χ^2 /NDF: 987.0/35

In: 11.117 $\pm$ 0.325 χ^2 /NDF:1093.5/32

Out: 10.734 $\pm$ 0.319 χ^2 /NDF:885.0/35

All: 10.922 $\pm$ 0.228 χ^2 /NDF: 1979.1/68

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 73.278+/-1.236 χ^2 /NDF: 1198.6/16

Left Out: 26.706+/-0.514 χ^2 /NDF:1541.9/16

Right Out: 78.130+/-1.223 χ^2 /NDF: 1543.3/18

Left In: 27.628+/-0.509 χ^2 /NDF:1299.1/15

Left: 27.171+/-0.362 χ^2 /NDF: 2842.6/32

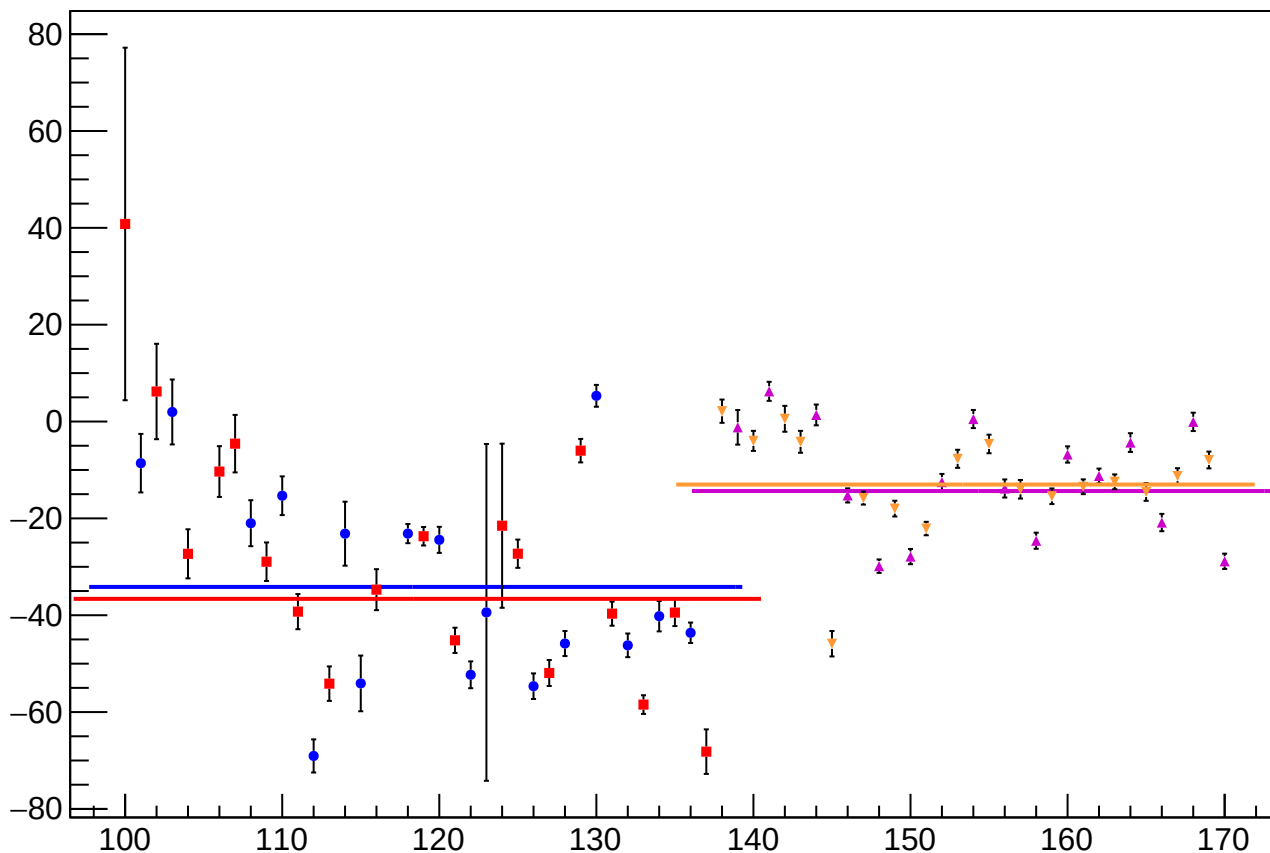
Right: 75.732+/-0.869 χ^2 /NDF: 2749.7/35

In: 34.249+/-0.471 χ^2 /NDF:3663.1/32

Out: 34.431+/-0.474 χ^2 /NDF:4588.8/35

All: 34.340+/-0.334 χ^2 /NDF: 8252.0/68

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.153 ± 0.745 $\chi^2/\text{NDF}: 717.5/16$

Left Out: -13.010 ± 0.429 $\chi^2/\text{NDF}: 352.9/16$

Right Out: -36.618 ± 0.736 $\chi^2/\text{NDF}: 547.0/18$

Left In: -14.352 ± 0.436 $\chi^2/\text{NDF}: 683.7/15$

Left: -13.671 ± 0.306 $\chi^2/\text{NDF}: 1041.5/32$

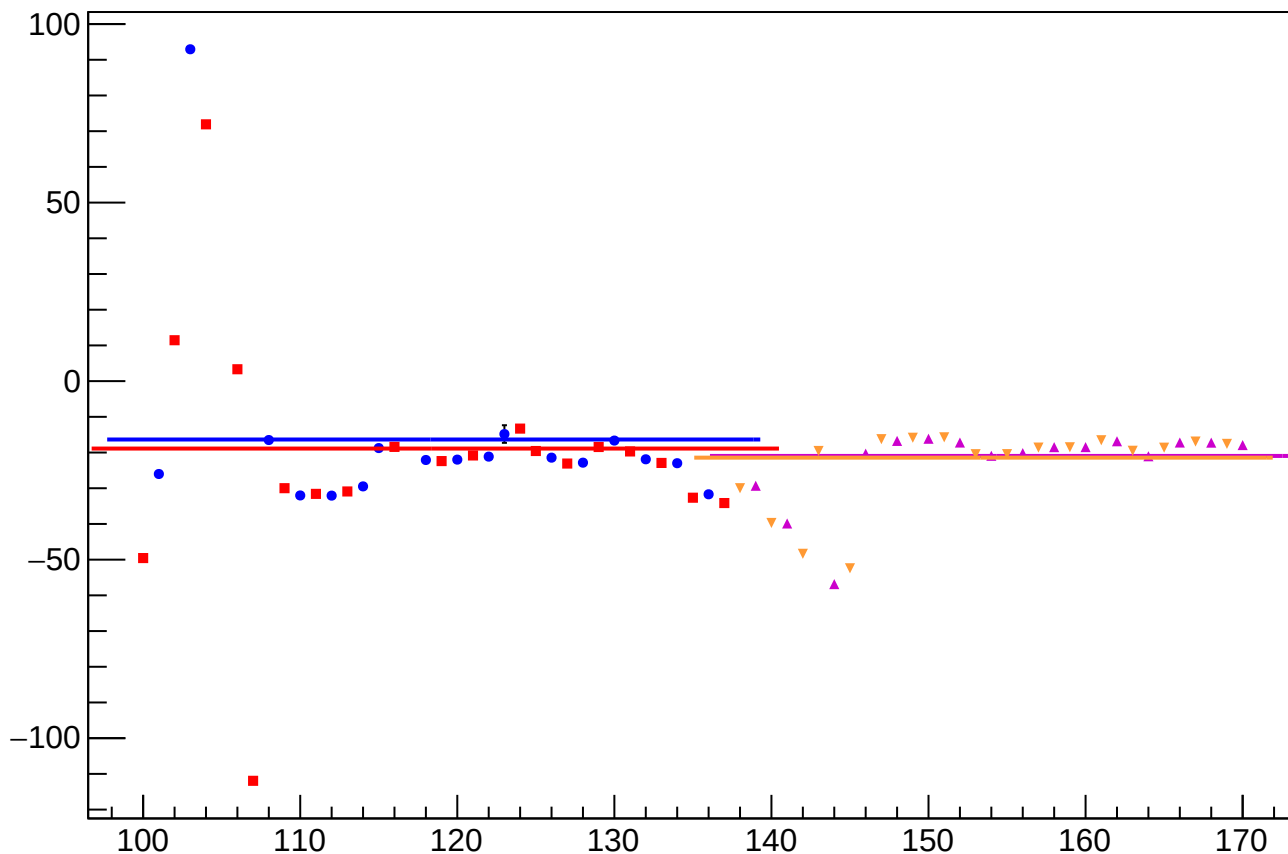
Right: -35.401 ± 0.523 $\chi^2/\text{NDF}: 1270.0/35$

In: -19.397 ± 0.376 $\chi^2/\text{NDF}: 1927.9/32$

Out: -19.009 ± 0.371 $\chi^2/\text{NDF}: 1667.9/35$

All: -19.200 ± 0.264 $\chi^2/\text{NDF}: 3596.3/68$

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -16.349 ± 0.045 $\chi^2/\text{NDF}: 474192.3/16$

Left Out: -21.433 ± 0.020 $\chi^2/\text{NDF}: 191209.1/16$

Right Out: -18.886 ± 0.045 $\chi^2/\text{NDF}: 433793.7/18$

Left In: -20.952 ± 0.020 $\chi^2/\text{NDF}: 160474.6/15$

Left: -21.190 ± 0.014 $\chi^2/\text{NDF}: 351971.9/32$

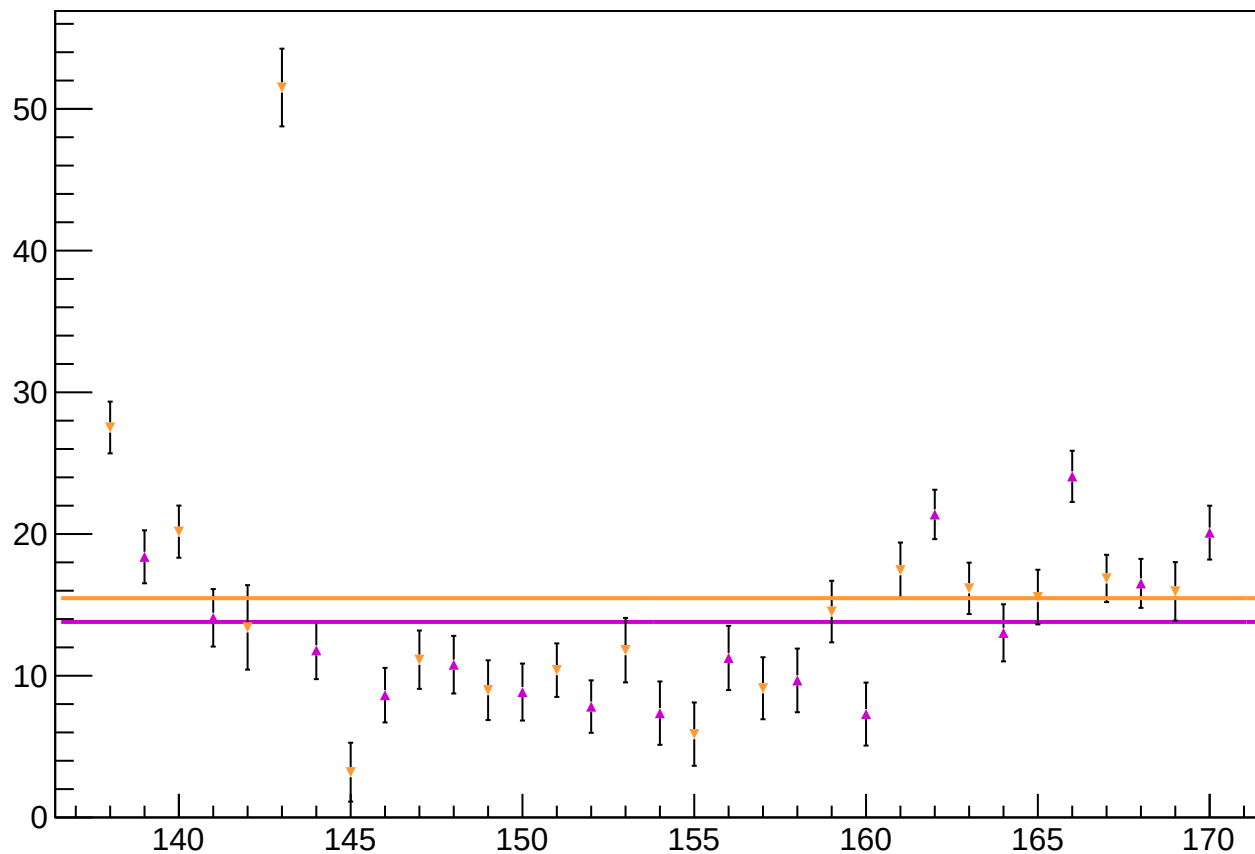
Right: -17.599 ± 0.032 $\chi^2/\text{NDF}: 909577.8/35$

In: -20.186 ± 0.018 $\chi^2/\text{NDF}: 643529.1/32$

Out: -21.012 ± 0.018 $\chi^2/\text{NDF}: 627641.0/35$

All: -20.594 ± 0.013 $\chi^2/\text{NDF}: 1272185.3/68$

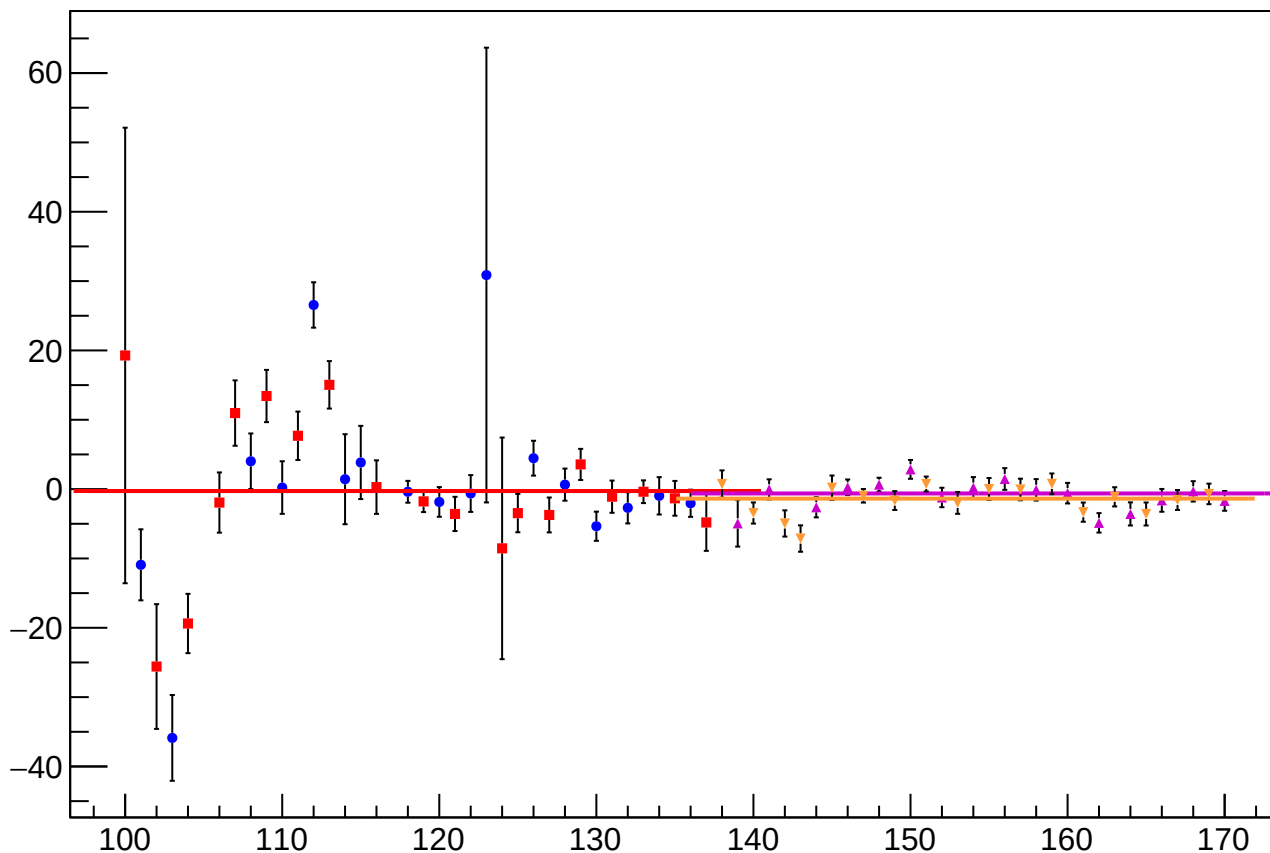
reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left Out: 15.476 $\pm$ 0.496 χ^2 /NDF:310.9/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 Left In: 13.797 $\pm$ 0.493 χ^2 /NDF:119.2/15

Left: 14.631 $\pm$ 0.350 χ^2 /NDF: 435.9/32
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 0.0/0
 In: 13.797 $\pm$ 0.493 χ^2 /NDF:119.2/15
 Out: 15.476 $\pm$ 0.496 χ^2 /NDF:310.9/16
 All: 14.631 $\pm$ 0.350 χ^2 /NDF: 435.9/32

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.280 ± 0.662 χ^2/NDF : 119.5/16

Left Out: -1.373 ± 0.353 χ^2/NDF : 28.3/16

Right Out: -0.270 ± 0.656 χ^2/NDF : 83.2/18

Left In: -0.626 ± 0.358 χ^2/NDF : 28.1/15

Left: -1.005 ± 0.251 χ^2/NDF : 58.6/32

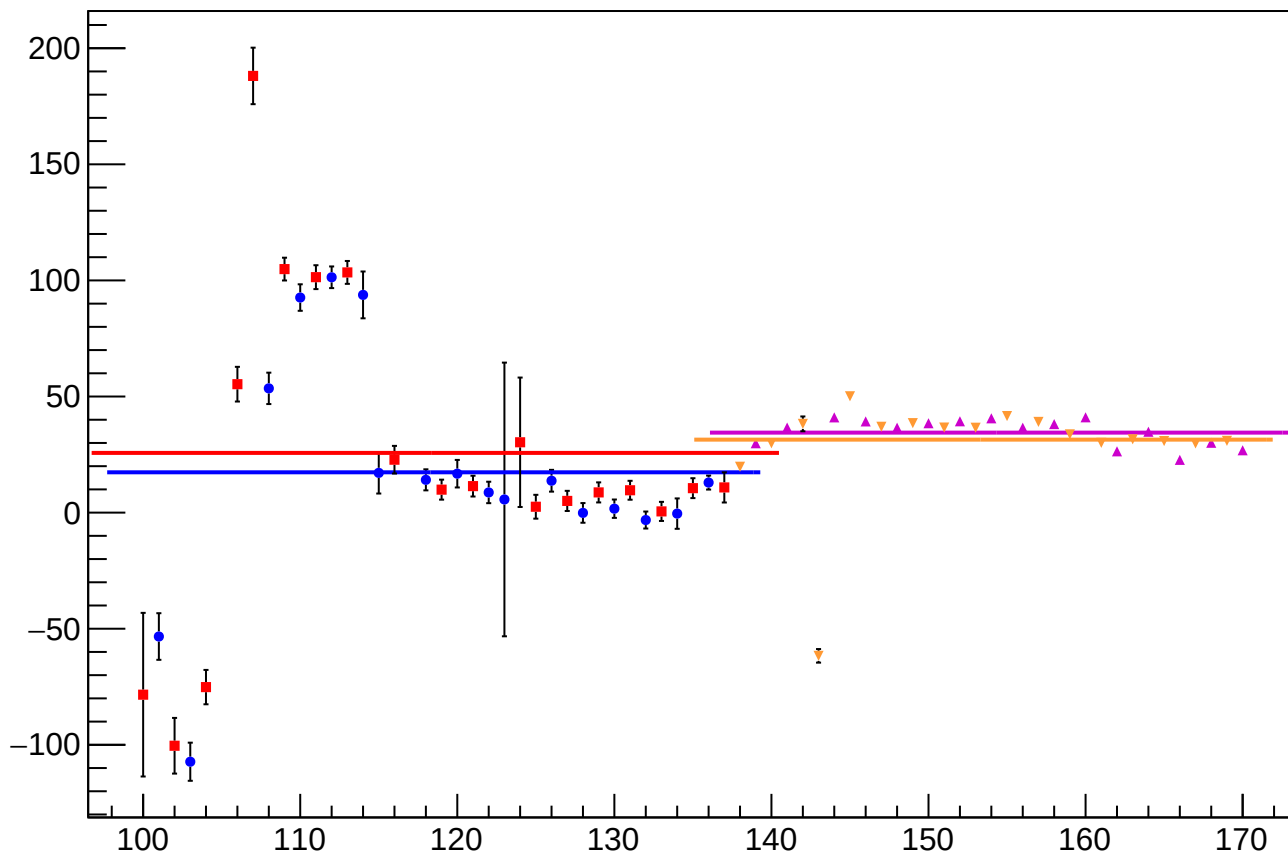
Right: -0.275 ± 0.466 χ^2/NDF : 202.7/35

In: -0.548 ± 0.315 χ^2/NDF : 147.8/32

Out: -1.125 ± 0.311 χ^2/NDF : 113.7/35

All: -0.841 ± 0.221 χ^2/NDF : 263.2/68

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 17.361 ± 1.247 $\chi^2/\text{NDF}: 943.0/16$

Left Out: 31.431 ± 0.489 $\chi^2/\text{NDF}: 1202.1/16$

Right Out: 25.717 ± 1.243 $\chi^2/\text{NDF}: 1378.8/18$

Left In: 34.451 ± 0.484 $\chi^2/\text{NDF}: 144.6/15$

Left: 32.957 ± 0.344 $\chi^2/\text{NDF}: 1366.0/32$

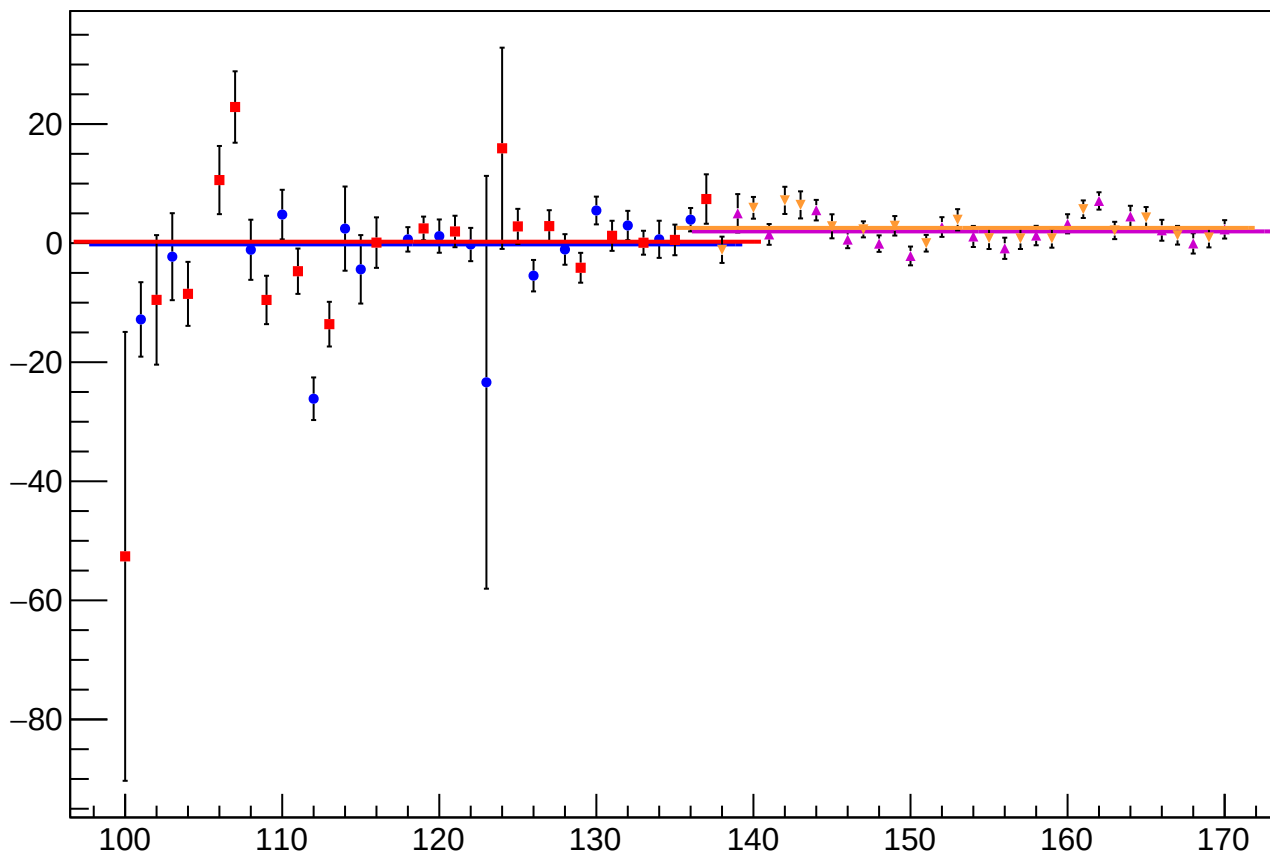
Right: 21.552 ± 0.880 $\chi^2/\text{NDF}: 2344.4/35$

In: 32.217 ± 0.451 $\chi^2/\text{NDF}: 1250.9/32$

Out: 30.665 ± 0.455 $\chi^2/\text{NDF}: 2599.3/35$

All: 31.448 ± 0.320 $\chi^2/\text{NDF}: 3856.0/68$

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.211 ± 0.752 χ^2/NDF : 75.9/16

Left Out: 2.560 ± 0.411 χ^2/NDF : 27.5/16

Right Out: 0.239 ± 0.748 χ^2/NDF : 54.5/18

Left In: 1.969 ± 0.415 χ^2/NDF : 34.8/15

Left: 2.268 ± 0.292 χ^2/NDF : 63.3/32

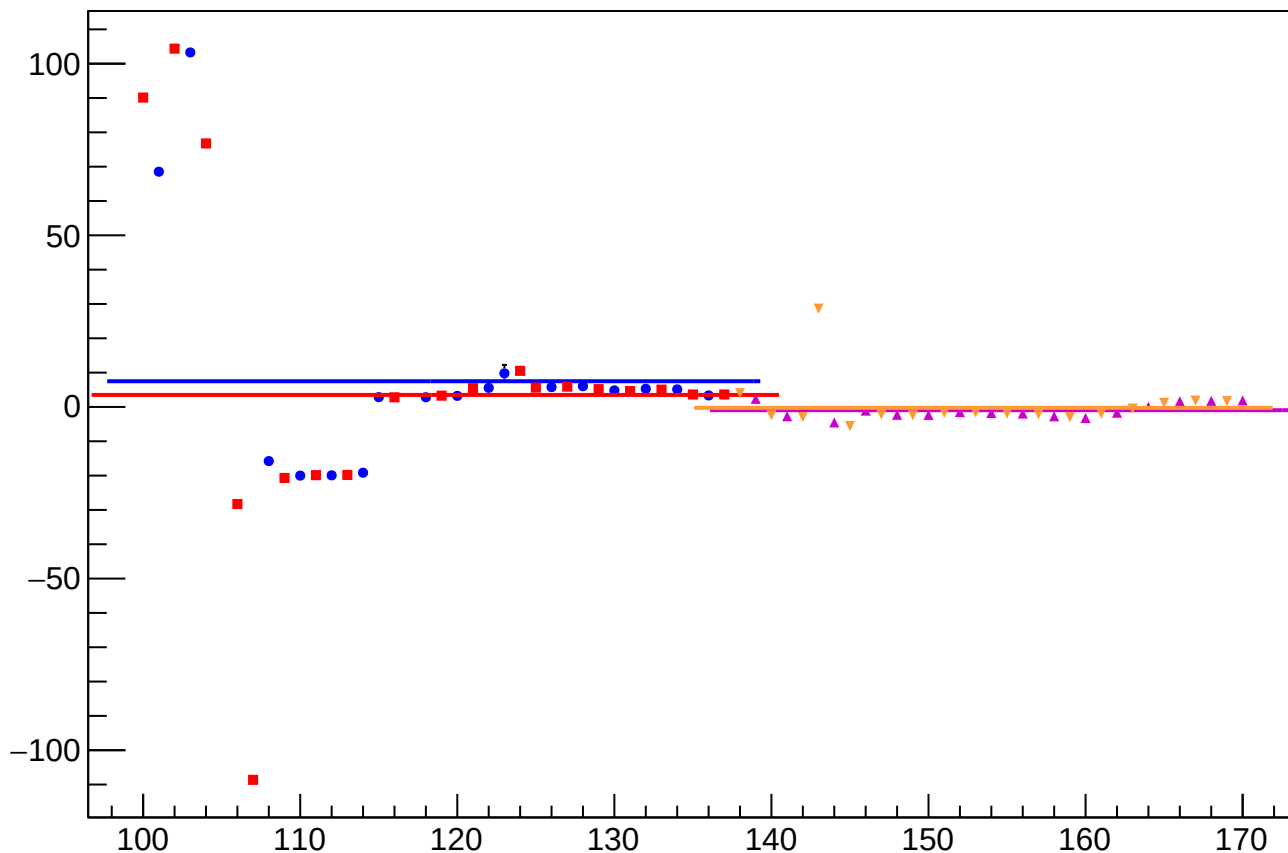
Right: 0.015 ± 0.530 χ^2/NDF : 130.6/35

In: 1.459 ± 0.363 χ^2/NDF : 117.1/32

Out: 2.023 ± 0.360 χ^2/NDF : 89.4/35

All: 1.744 ± 0.256 χ^2/NDF : 207.8/68

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 7.492+/-0.045 χ^2/NDF : 355979.0/16

Left Out: -0.256+/-0.019 χ^2/NDF : 75863.1/16

Right Out: 3.504+/-0.046 χ^2/NDF : 510579.4/18

Left In: -0.944+/-0.019 χ^2/NDF : 11064.8/15

Left: -0.604+/-0.013 χ^2/NDF : 87581.4/32

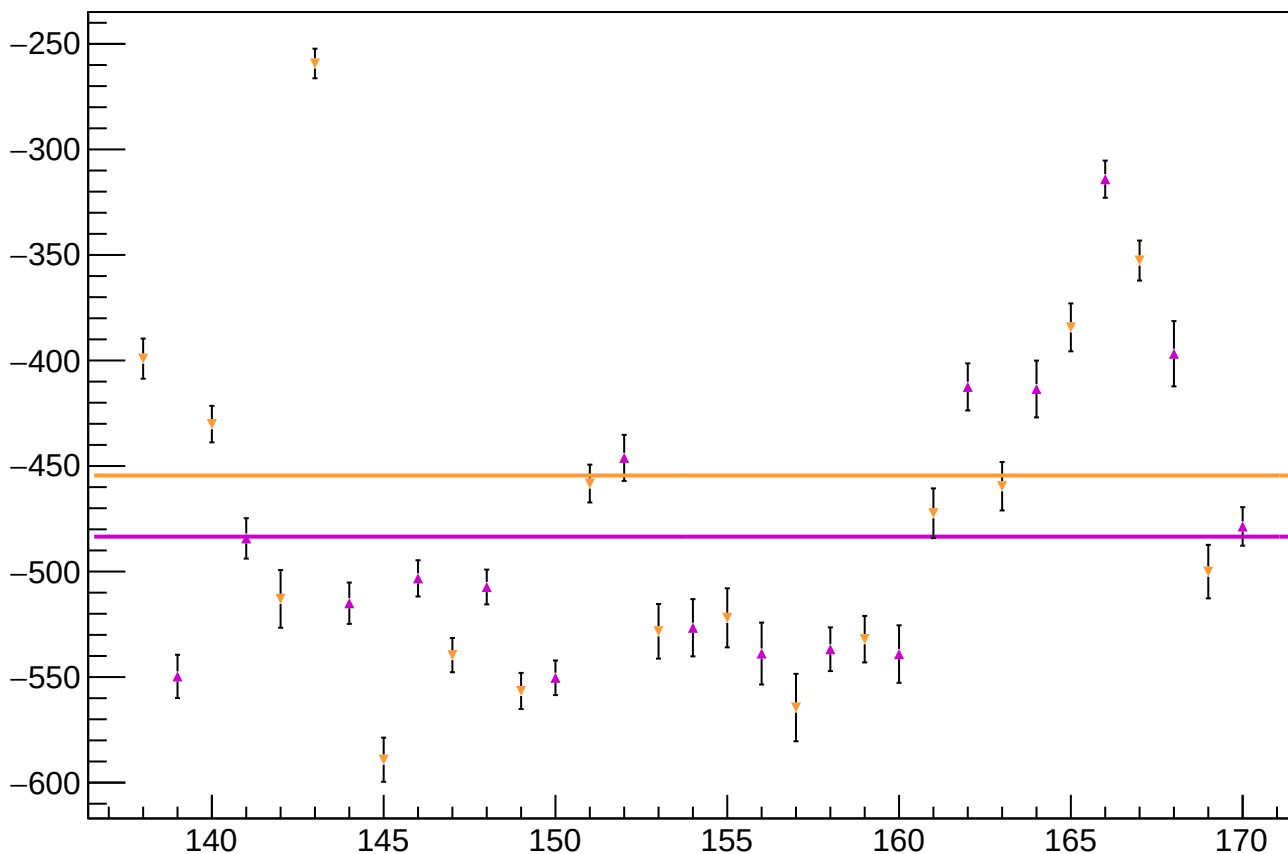
Right: 5.541+/-0.032 χ^2/NDF : 870462.8/35

In: 0.339+/-0.017 χ^2/NDF : 397331.2/32

Out: 0.306+/-0.018 χ^2/NDF : 592218.4/35

All: 0.323+/-0.012 χ^2/NDF : 989551.4/68

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -454.483+/-2.472 χ^2/NDF :1573.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -483.455+/-2.582 χ^2/NDF :680.7/15

Left: -468.336+/-1.786 χ^2/NDF : 2320.0/32

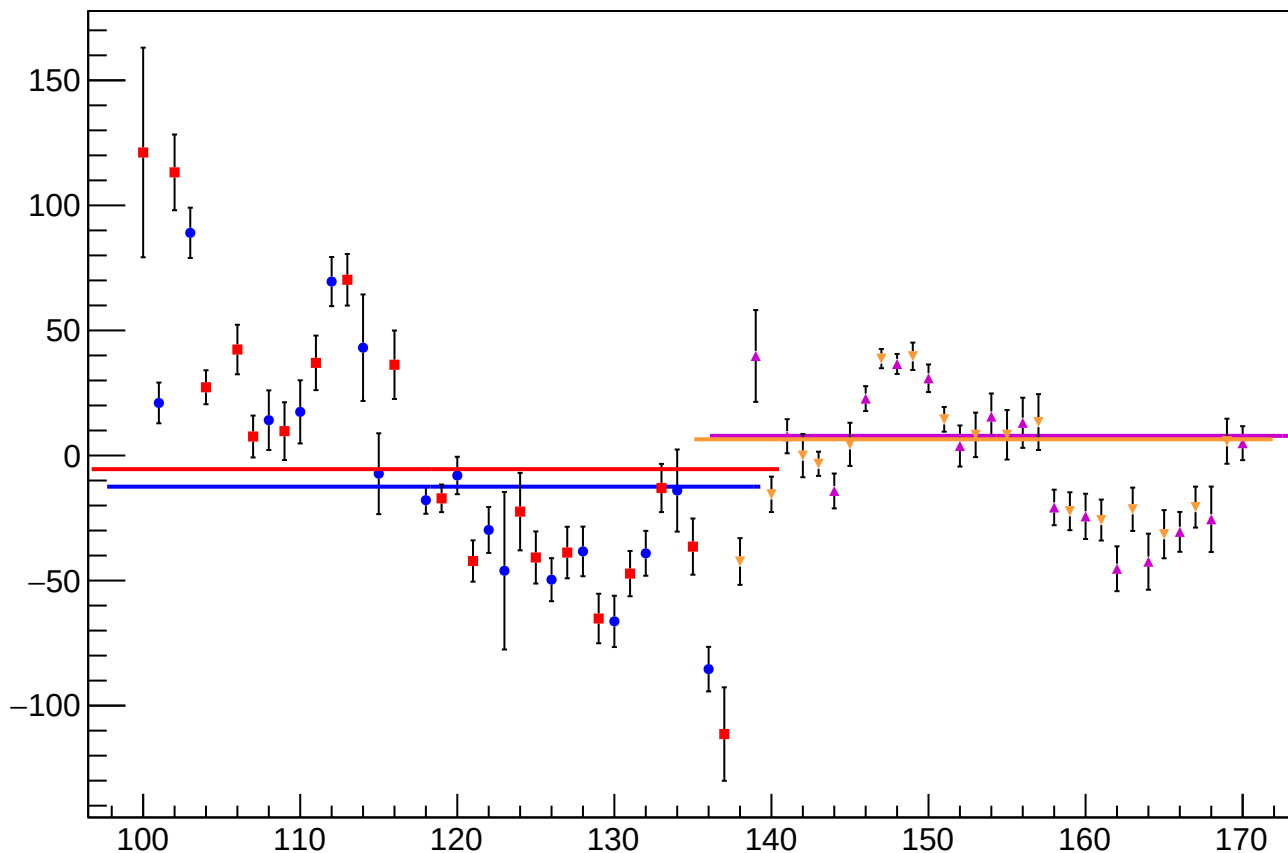
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -483.455+/-2.582 χ^2/NDF :680.7/15

Out: -454.483+/-2.472 χ^2/NDF :1573.6/16

All: -468.336+/-1.786 χ^2/NDF : 2320.0/32

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -12.458 ± 2.349 χ^2/NDF : 341.1/16

Left Out: 6.482 ± 1.672 χ^2/NDF : 218.8/16

Right Out: -5.453 ± 2.259 χ^2/NDF : 345.0/18

Left In: 7.845 ± 1.787 χ^2/NDF : 206.6/15

Left: 7.118 ± 1.221 χ^2/NDF : 425.7/32

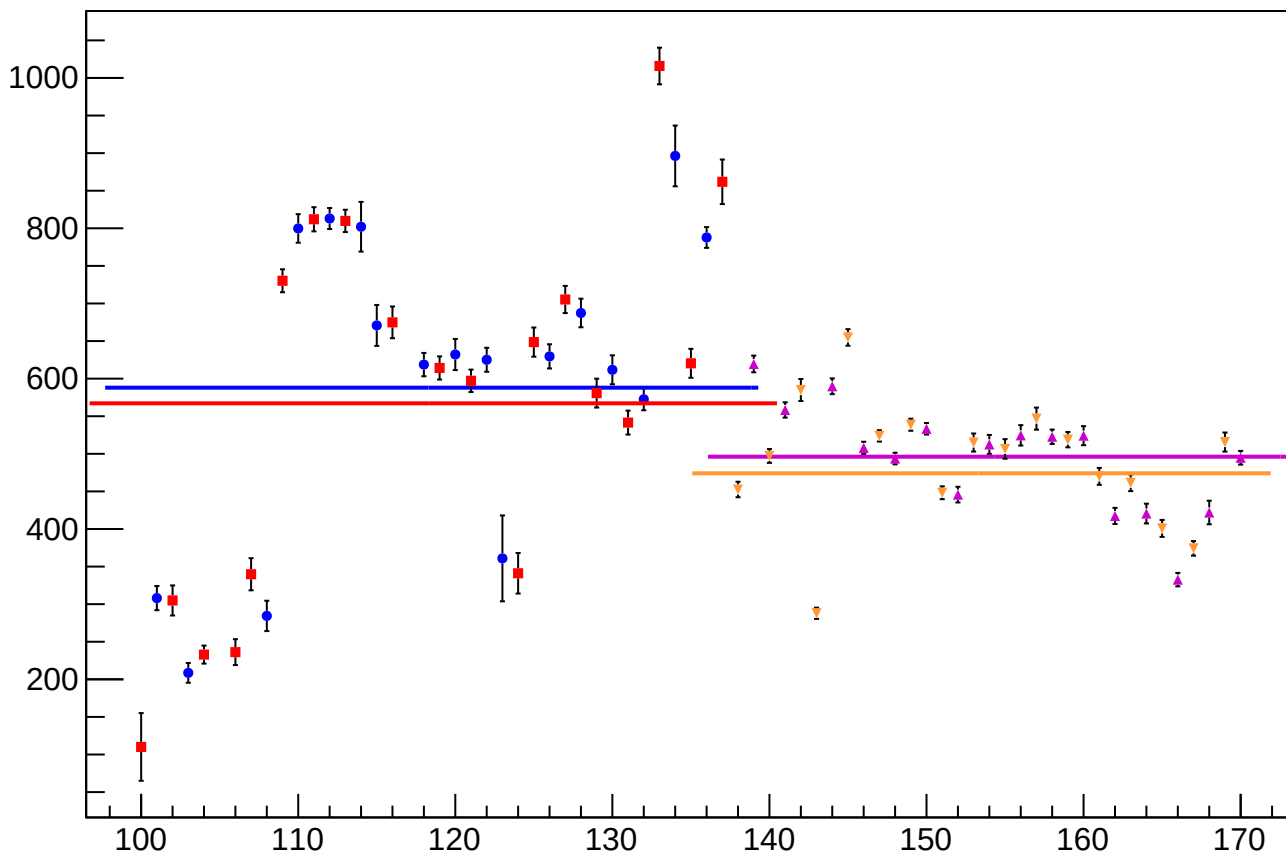
Right: -8.819 ± 1.628 χ^2/NDF : 690.7/35

In: 0.403 ± 1.422 χ^2/NDF : 595.0/32

Out: 2.257 ± 1.344 χ^2/NDF : 581.8/35

All: 1.382 ± 0.977 χ^2/NDF : 1177.7/68

reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 587.994 $\pm$ 4.353 χ^2 /NDF: 2129.6/16

Left Out: 474.078 $\pm$ 2.451 χ^2 /NDF:1294.1/16

Right Out: 567.179 $\pm$ 4.136 χ^2 /NDF: 2783.2/18

Left In: 496.167 $\pm$ 2.527 χ^2 /NDF:750.1/15

Left: 484.784 $\pm$ 1.759 χ^2 /NDF: 2083.5/32

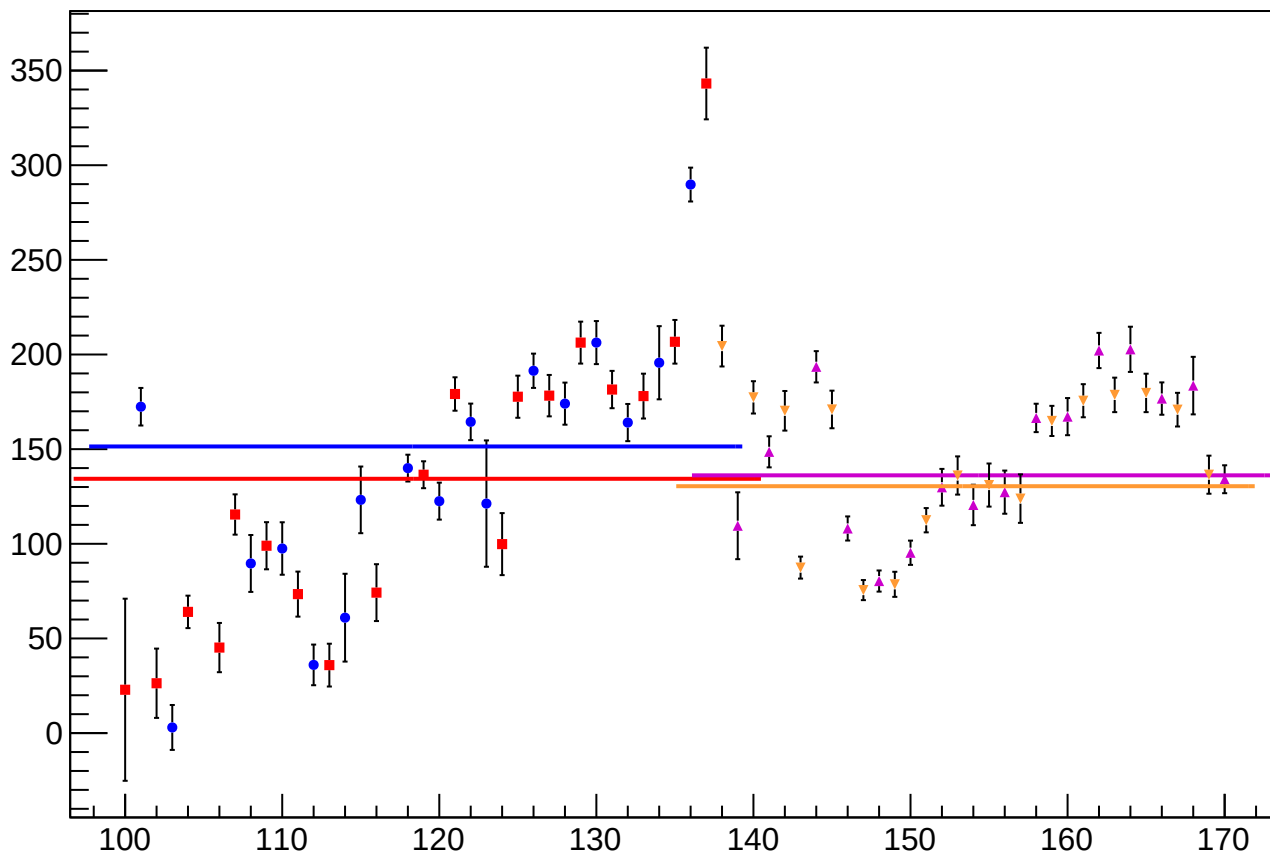
Right: 577.056 $\pm$ 2.998 χ^2 /NDF: 4924.8/35

In: 519.314 $\pm$ 2.185 χ^2 /NDF:3212.6/32

Out: 498.269 $\pm$ 2.108 χ^2 /NDF:4452.3/35

All: 508.414 $\pm$ 1.517 χ^2 /NDF: 7712.9/68

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 151.421 $\pm$ 2.709 χ^2/NDF : 633.3/16

Left Out: 130.426 $\pm$ 1.997 χ^2/NDF : 458.2/16

Right Out: 134.346 $\pm$ 2.616 χ^2/NDF : 584.9/18

Left In: 136.168 $\pm$ 2.113 χ^2/NDF : 355.9/15

Left: 133.135 $\pm$ 1.452 χ^2/NDF : 818.0/32

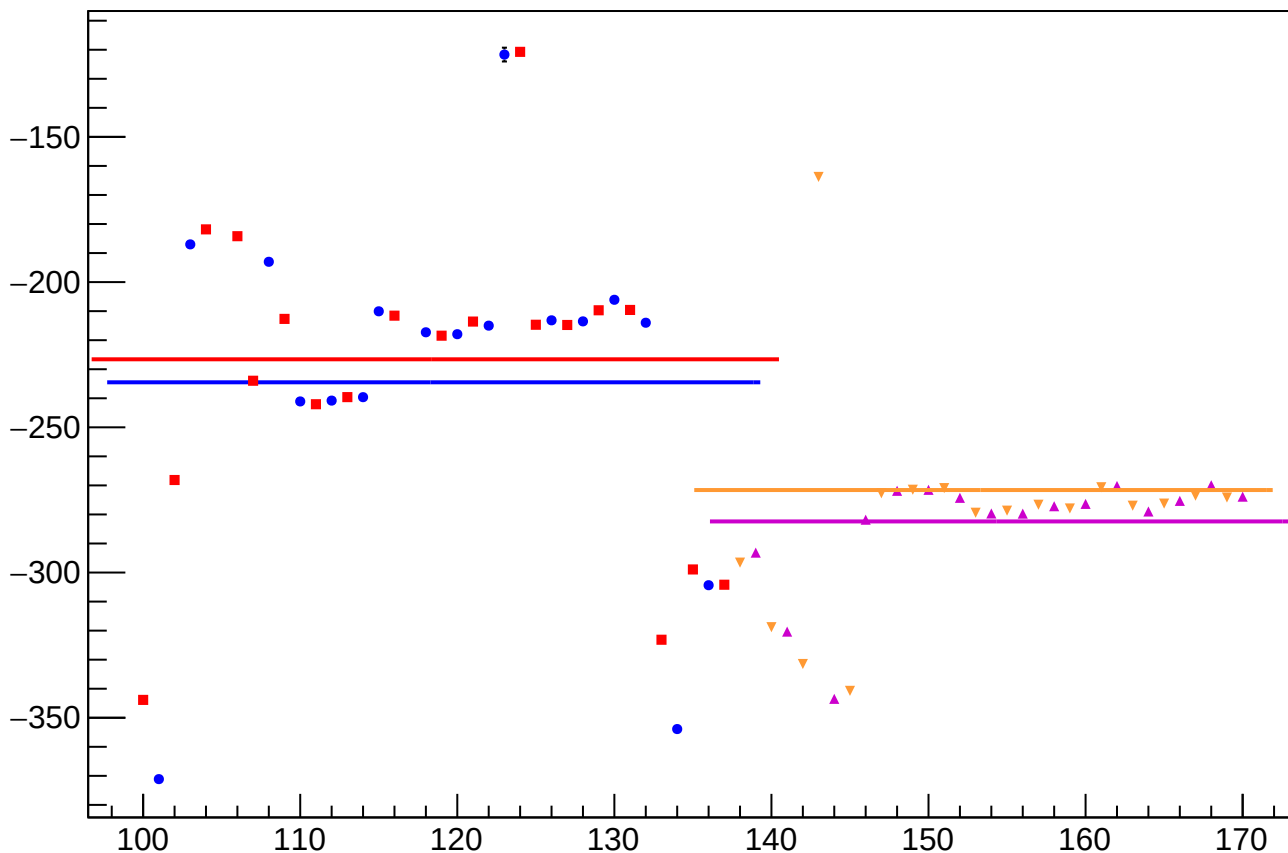
Right: 142.583 $\pm$ 1.882 χ^2/NDF : 1238.7/35

In: 141.938 $\pm$ 1.666 χ^2/NDF : 1008.9/32

Out: 131.870 $\pm$ 1.587 χ^2/NDF : 1044.5/35

All: 136.660 $\pm$ 1.149 χ^2/NDF : 2072.6/68

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -234.501 ± 0.149 $\chi^2/\text{NDF}: 145046.5/16$

Left Out: -271.595 ± 0.099 $\chi^2/\text{NDF}: 183042.4/16$

Right Out: -226.581 ± 0.141 $\chi^2/\text{NDF}: 98968.8/18$

Left In: -282.402 ± 0.101 $\chi^2/\text{NDF}: 32293.4/15$

Left: -276.879 ± 0.070 $\chi^2/\text{NDF}: 221215.7/32$

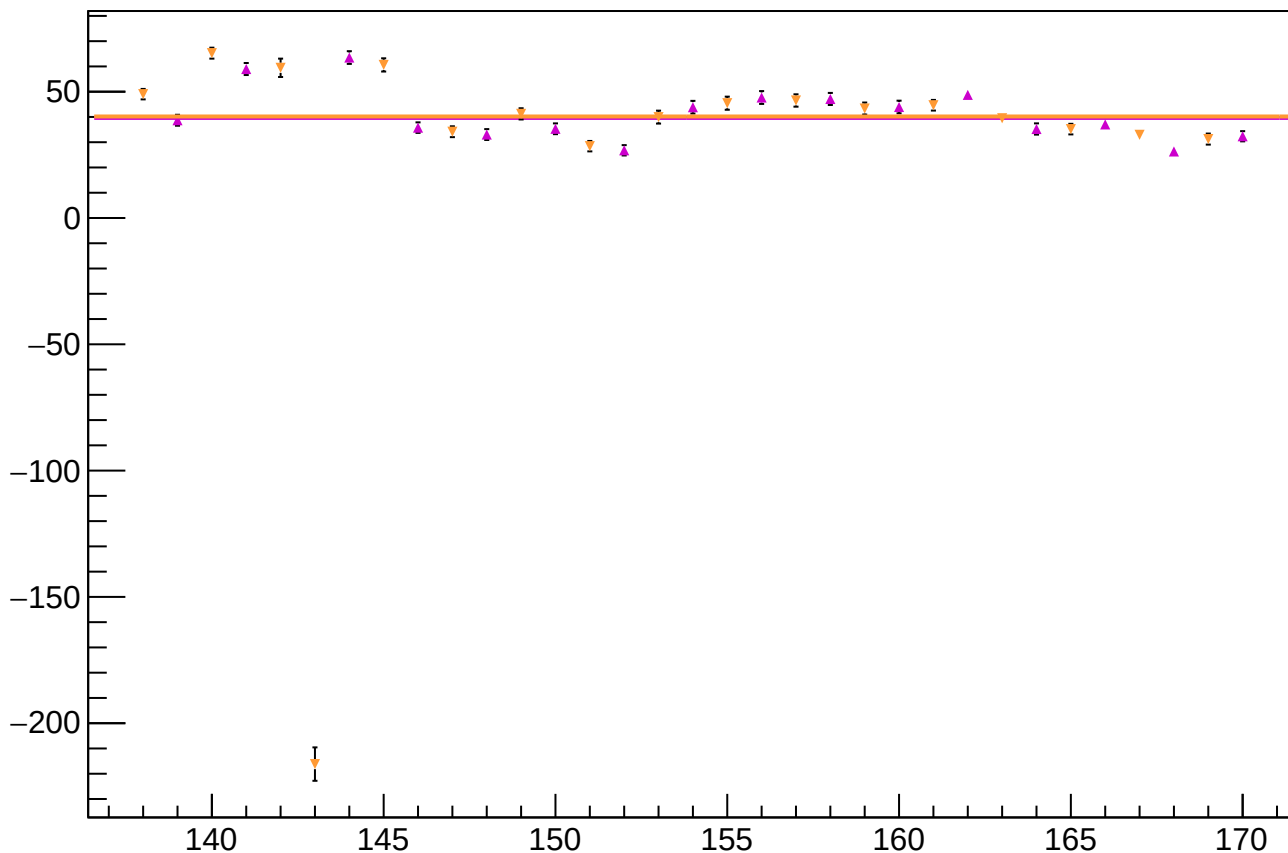
Right: -230.333 ± 0.103 $\chi^2/\text{NDF}: 245501.4/35$

In: -267.376 ± 0.083 $\chi^2/\text{NDF}: 248244.8/32$

Out: -256.878 ± 0.081 $\chi^2/\text{NDF}: 350213.2/35$

All: -261.960 ± 0.058 $\chi^2/\text{NDF}: 606619.4/68$

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 40.185+/-0.558 χ^2/NDF :1840.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 39.628+/-0.544 χ^2/NDF :329.3/15

Left: 39.900+/-0.390 χ^2/NDF : 2170.2/32

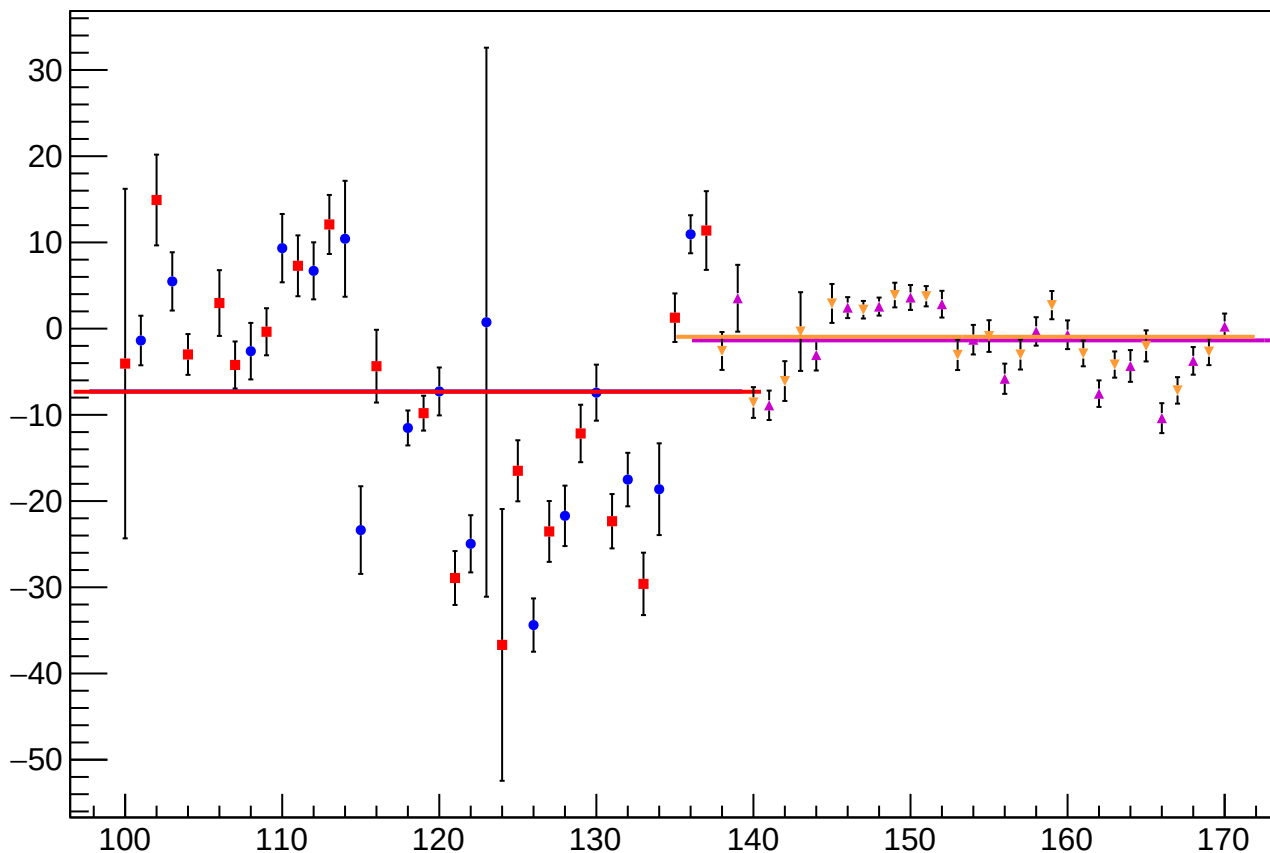
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 39.628+/-0.544 χ^2/NDF :329.3/15

Out: 40.185+/-0.558 χ^2/NDF :1840.4/16

All: 39.900+/-0.390 χ^2/NDF : 2170.2/32

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.284 ± 0.789 χ^2/NDF : 283.2/16

Left Out: -0.948 ± 0.393 χ^2/NDF : 95.6/16

Right Out: -7.323 ± 0.761 χ^2/NDF : 255.3/18

Left In: -1.362 ± 0.393 χ^2/NDF : 121.0/15

Left: -1.155 ± 0.278 χ^2/NDF : 217.2/32

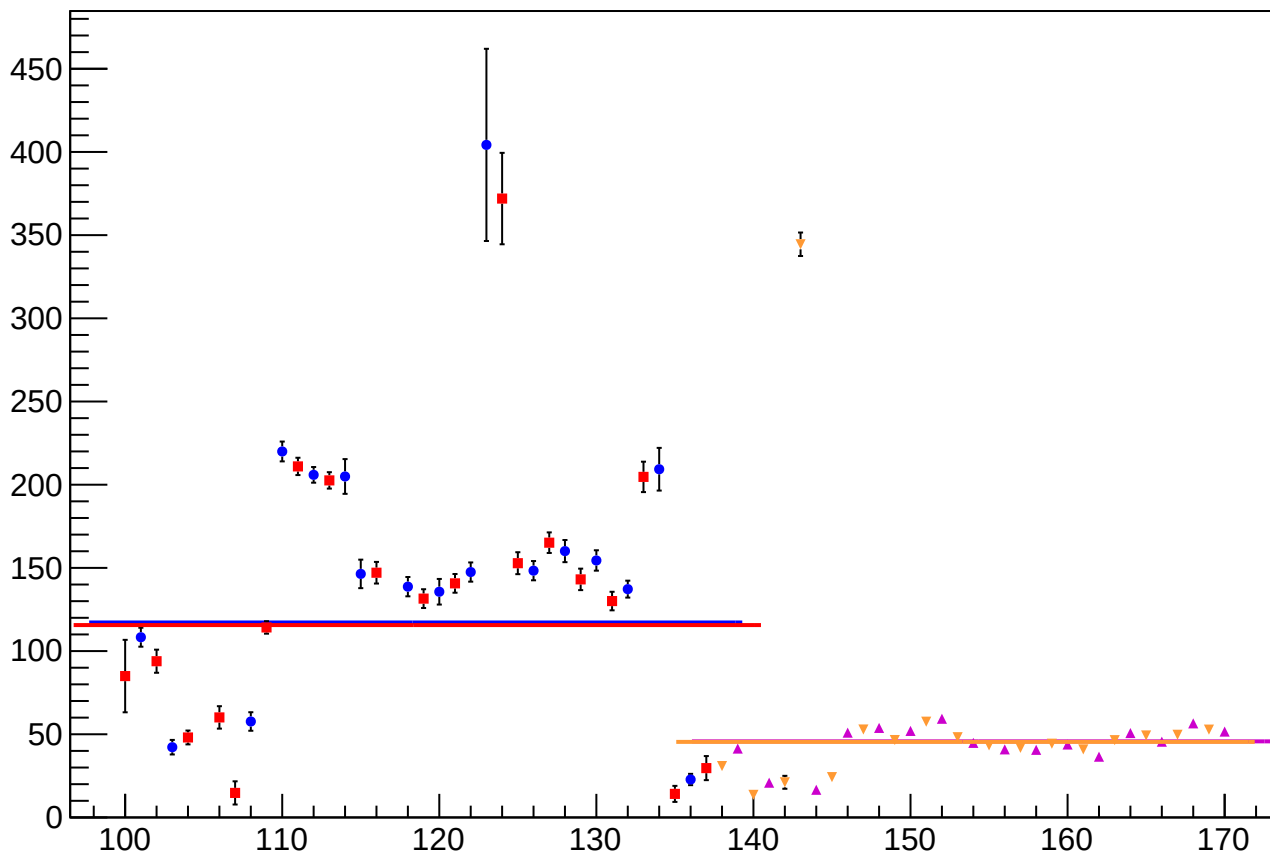
Right: -7.304 ± 0.548 χ^2/NDF : 538.5/35

In: -2.540 ± 0.352 χ^2/NDF : 449.4/32

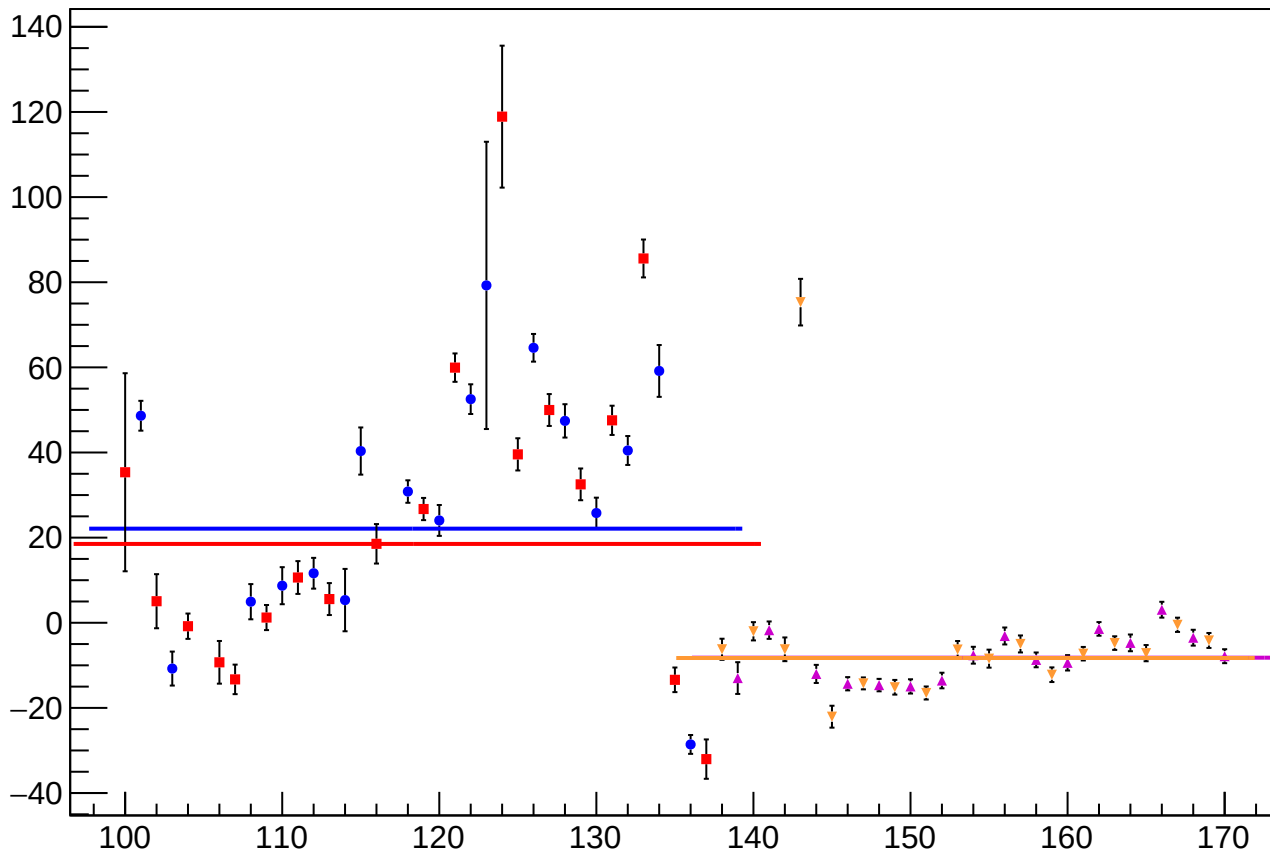
Out: -2.292 ± 0.349 χ^2/NDF : 406.3/35

All: -2.415 ± 0.248 χ^2/NDF : 856.0/68

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 22.110 $\pm$ 0.898 χ^2 /NDF: 1070.3/16

Left Out: -8.278 $\pm$ 0.458 χ^2 /NDF:376.0/16

Right Out: 18.521 $\pm$ 0.871 χ^2 /NDF: 1068.6/18

Left In: -8.204 $\pm$ 0.456 χ^2 /NDF:145.8/15

Left: -8.241 $\pm$ 0.323 χ^2 /NDF: 521.8/32

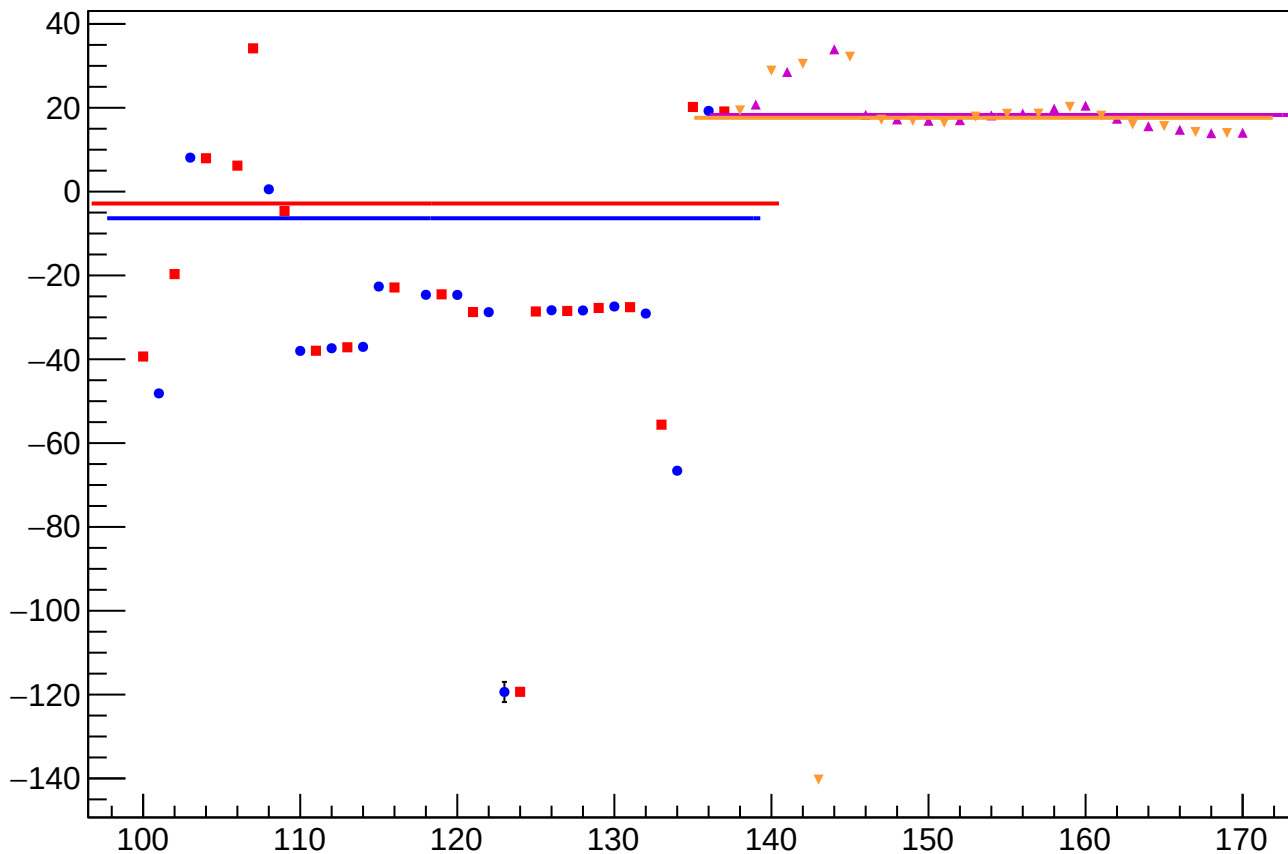
Right: 20.261 $\pm$ 0.625 χ^2 /NDF: 2147.1/35

In: -1.994 $\pm$ 0.407 χ^2 /NDF:2121.9/32

Out: -2.475 $\pm$ 0.405 χ^2 /NDF:2185.9/35

All: -2.235 $\pm$ 0.287 χ^2 /NDF: 4308.5/68

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.360 ± 0.046 χ^2/NDF : 264750.9/16

Left Out: 17.606 ± 0.021 χ^2/NDF : 356012.4/16

Right Out: -2.837 ± 0.046 χ^2/NDF : 265573.0/18

Left In: 18.283 ± 0.021 χ^2/NDF : 40127.8/15

Left: 17.954 ± 0.015 χ^2/NDF : 396652.5/32

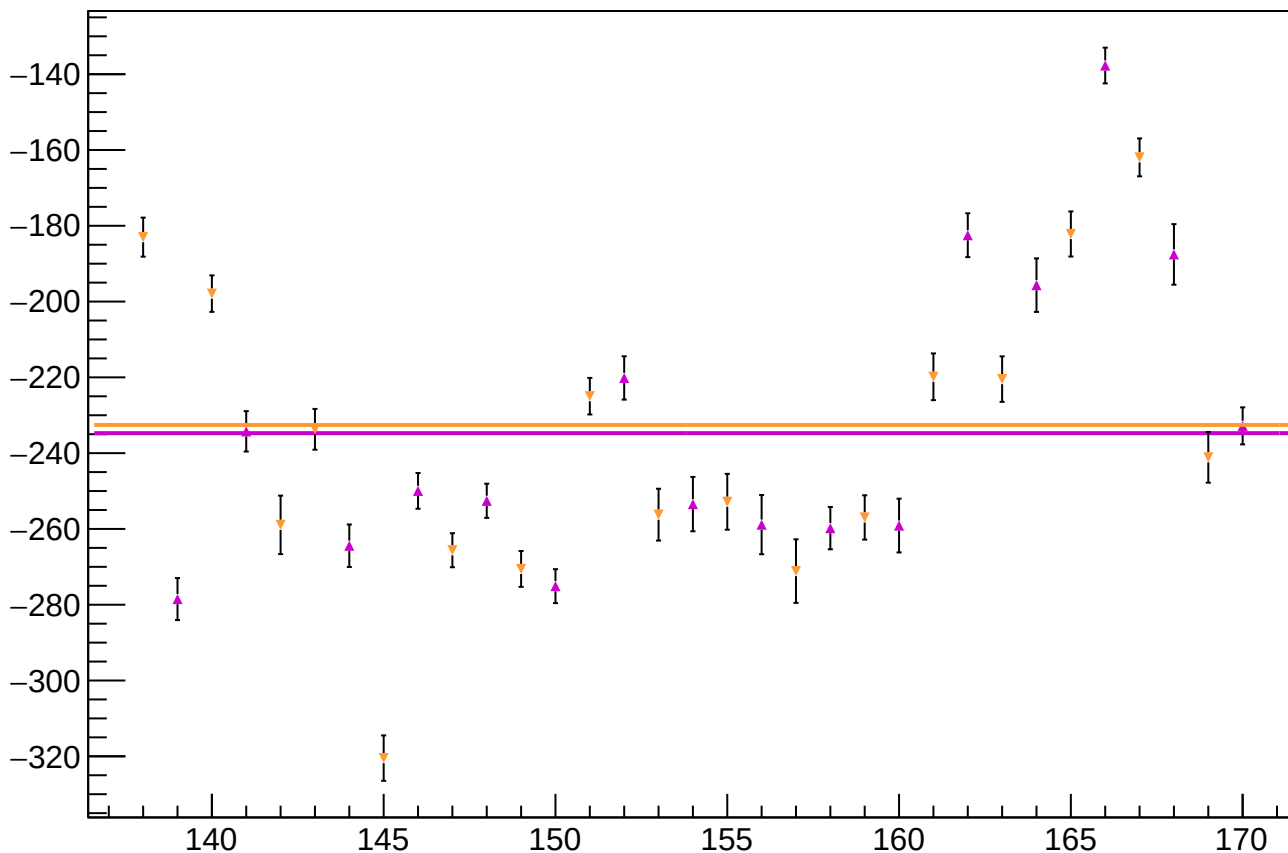
Right: -4.577 ± 0.033 χ^2/NDF : 533252.4/35

In: 14.130 ± 0.019 χ^2/NDF : 540282.0/32

Out: 13.928 ± 0.019 χ^2/NDF : 785358.0/35

All: 14.031 ± 0.014 χ^2/NDF : 1325695.6/68

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -232.560+/-1.380 χ^2/NDF :831.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -234.720+/-1.394 χ^2/NDF :823.2/15

Left: -233.629+/-0.981 χ^2/NDF : 1655.9/32

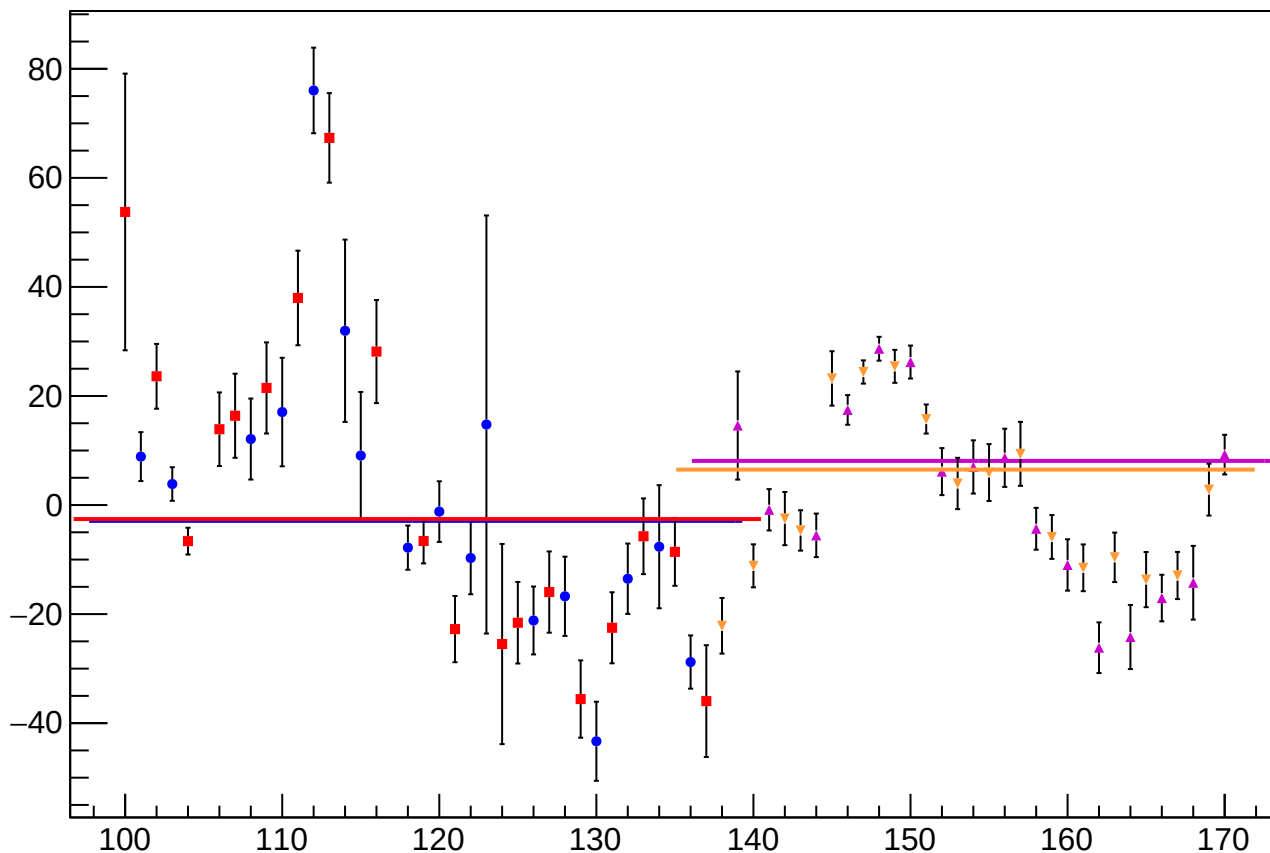
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -234.720+/-1.394 χ^2/NDF :823.2/15

Out: -232.560+/-1.380 χ^2/NDF :831.5/16

All: -233.629+/-0.981 χ^2/NDF : 1655.9/32

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.901 ± 1.467 χ^2/NDF : 203.6/16

Left Out: 6.496 ± 0.936 χ^2/NDF : 274.1/16

Right Out: -2.570 ± 1.396 χ^2/NDF : 218.2/18

Left In: 8.094 ± 0.968 χ^2/NDF : 311.5/15

Left: 7.268 ± 0.673 χ^2/NDF : 587.0/32

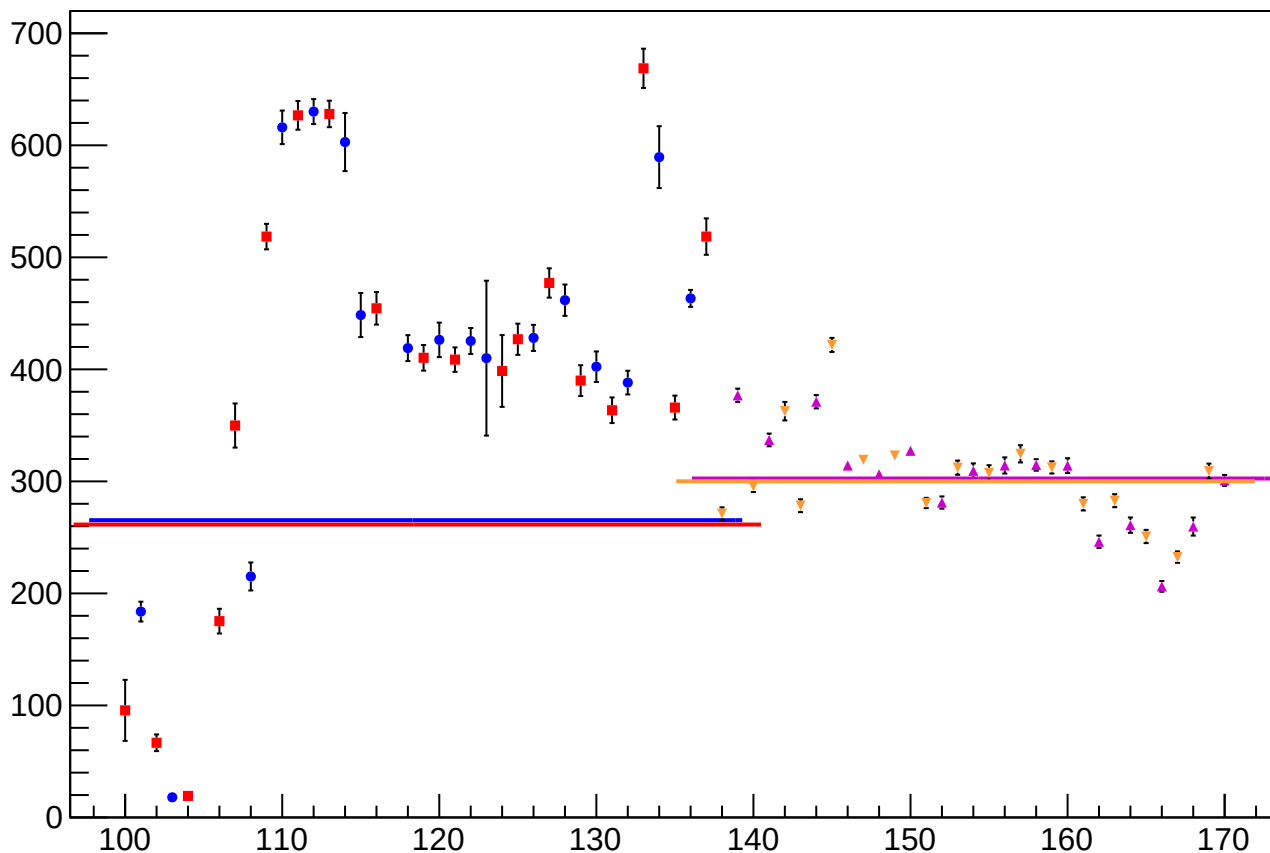
Right: -2.728 ± 1.011 χ^2/NDF : 421.8/35

In: 4.761 ± 0.808 χ^2/NDF : 554.2/32

Out: 3.684 ± 0.778 χ^2/NDF : 521.3/35

All: 4.202 ± 0.560 χ^2/NDF : 1076.5/68

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 265.369 $\pm$ 2.488 χ^2 /NDF: 7633.8/16

Left Out: 300.070 $\pm$ 1.360 χ^2 /NDF:825.6/16

Right Out: 261.465 $\pm$ 2.458 χ^2 /NDF: 8204.3/18

Left In: 302.566 $\pm$ 1.363 χ^2 /NDF:960.2/15

Left: 301.315 $\pm$ 0.963 χ^2 /NDF: 1787.4/32

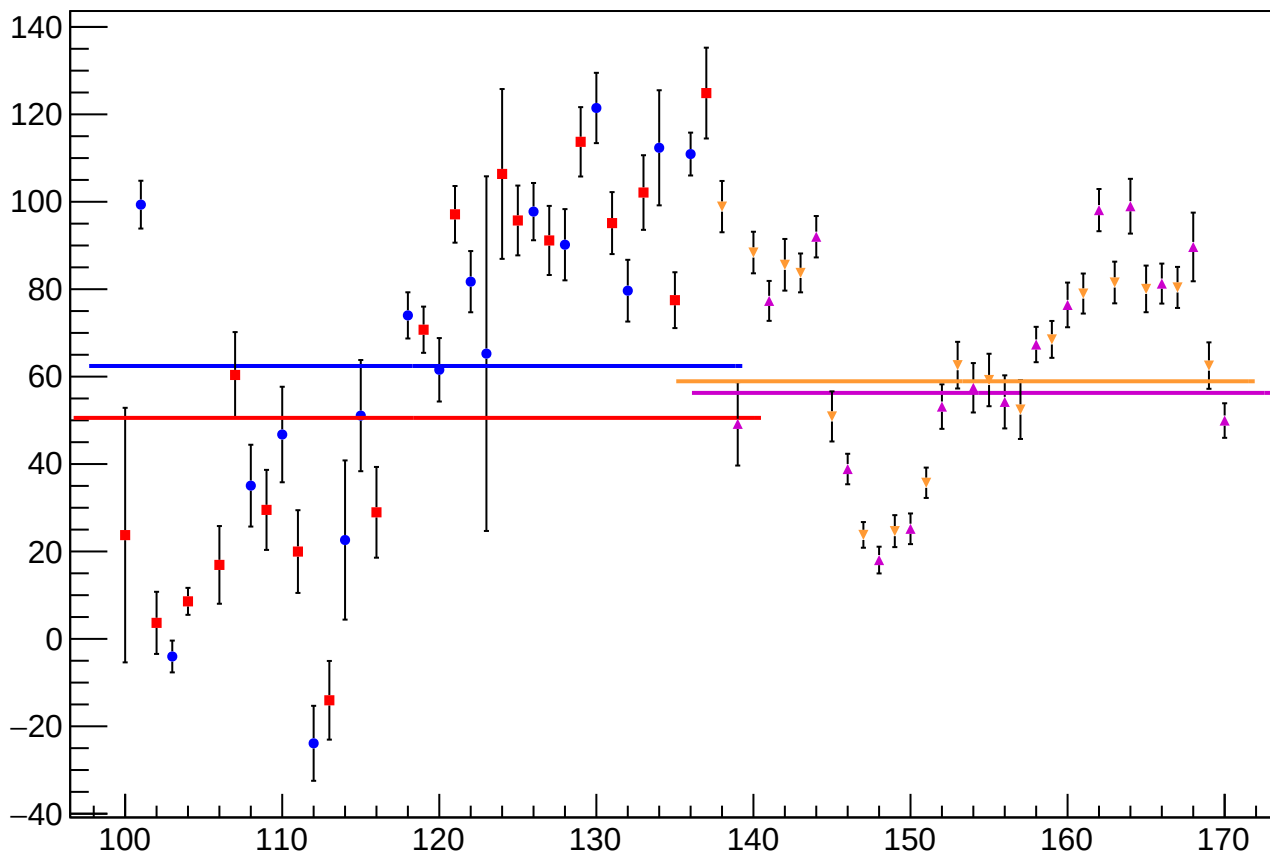
Right: 263.393 $\pm$ 1.749 χ^2 /NDF: 15839.3/35

In: 293.979 $\pm$ 1.195 χ^2 /NDF:8765.9/32

Out: 291.016 $\pm$ 1.190 χ^2 /NDF:9218.7/35

All: 292.491 $\pm$ 0.843 χ^2 /NDF: 17987.7/68

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 62.434 ± 1.694 $\chi^2/\text{NDF}: 721.8/16$

Left Out: 58.934 ± 1.114 $\chi^2/\text{NDF}: 499.1/16$

Right Out: 50.560 ± 1.642 $\chi^2/\text{NDF}: 657.4/18$

Left In: 56.277 ± 1.142 $\chi^2/\text{NDF}: 534.0/15$

Left: 57.638 ± 0.798 $\chi^2/\text{NDF}: 1035.9/32$

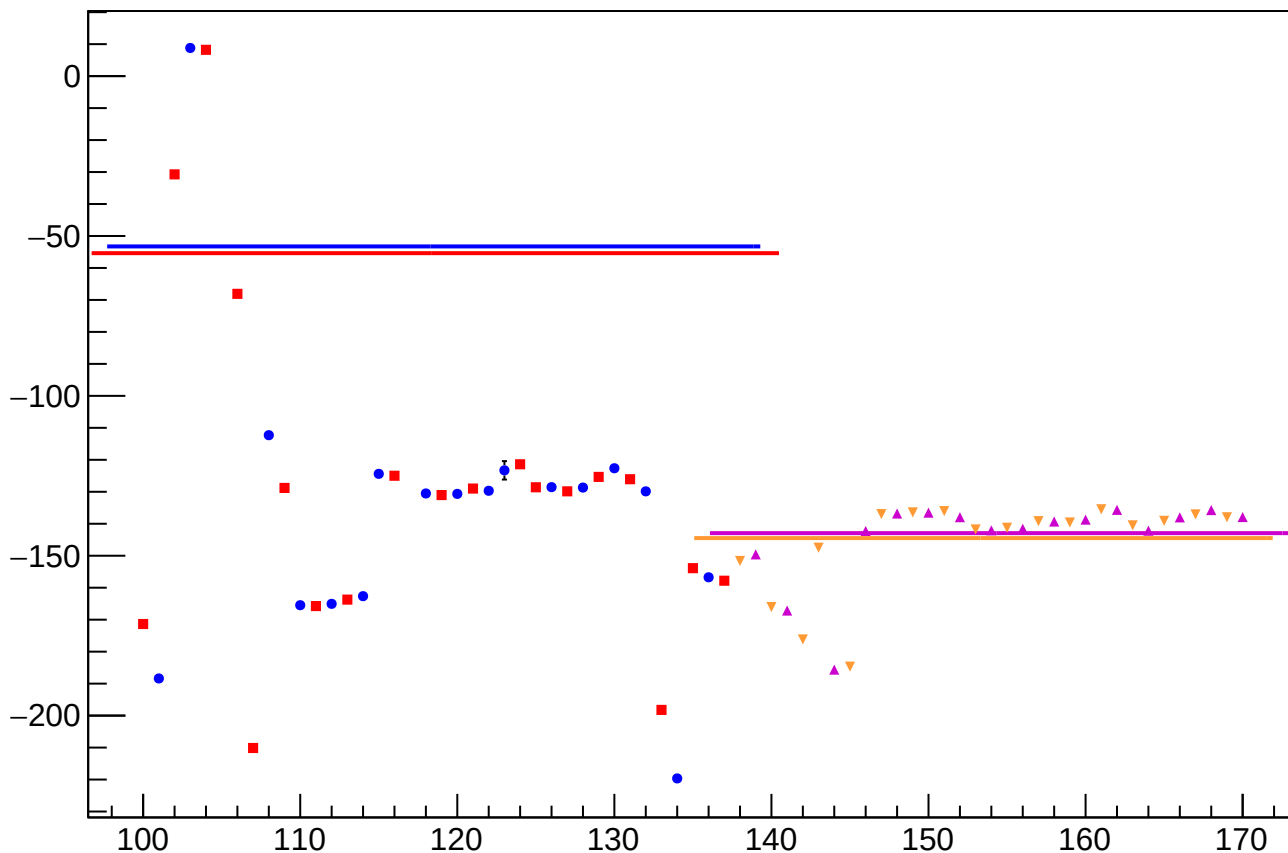
Right: 56.313 ± 1.179 $\chi^2/\text{NDF}: 1404.5/35$

In: 58.202 ± 0.947 $\chi^2/\text{NDF}: 1264.9/32$

Out: 56.293 ± 0.922 $\chi^2/\text{NDF}: 1174.3/35$

All: 57.222 ± 0.661 $\chi^2/\text{NDF}: 2441.2/68$

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -53.264 ± 0.070 $\chi^2/\text{NDF}: 1225492.9/16$

Left Out: -144.486 ± 0.055 $\chi^2/\text{NDF}: 56529.1/16$

Right Out: -55.373 ± 0.072 $\chi^2/\text{NDF}: 967027.2/18$

Left In: -142.935 ± 0.054 $\chi^2/\text{NDF}: 45280.8/15$

Left: -143.706 ± 0.038 $\chi^2/\text{NDF}: 102216.5/32$

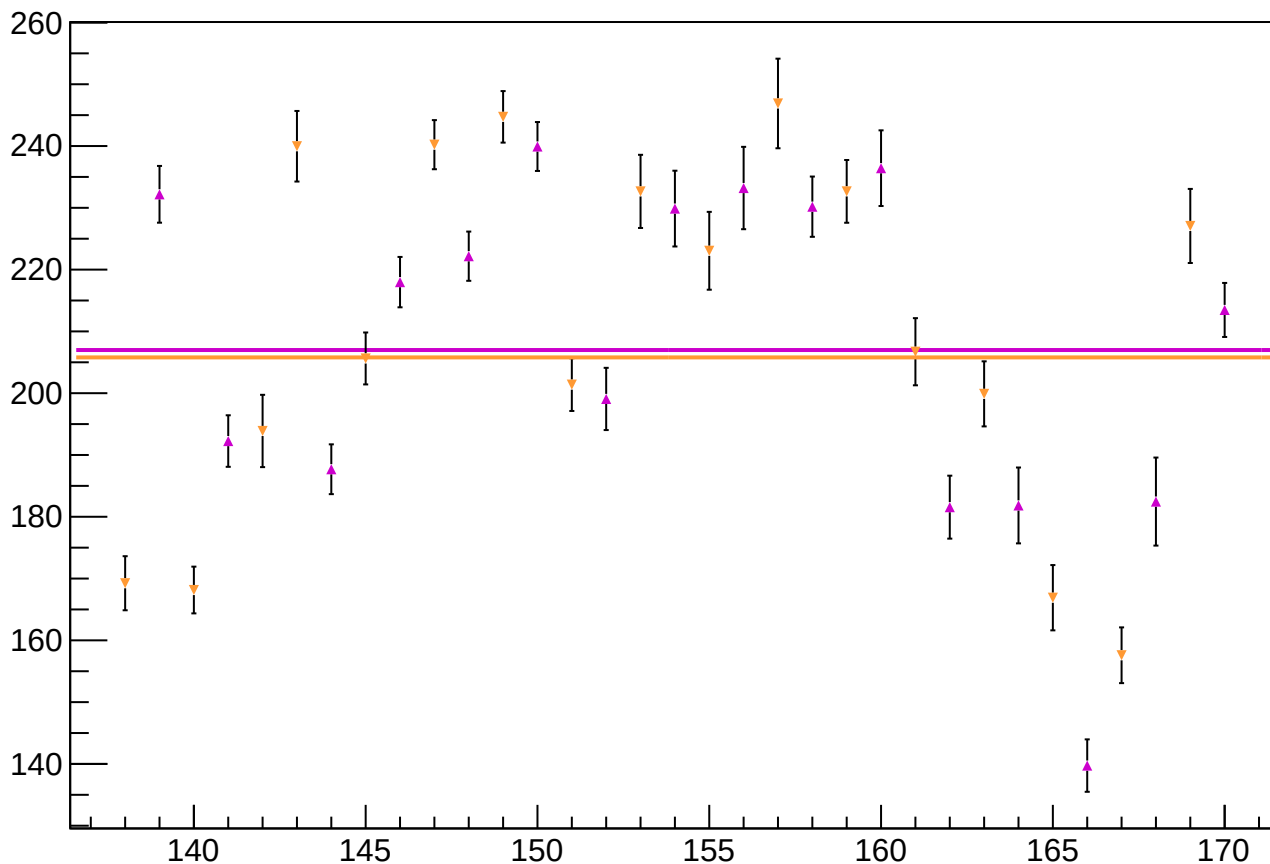
Right: -54.295 ± 0.050 $\chi^2/\text{NDF}: 2192958.9/35$

In: -109.556 ± 0.043 $\chi^2/\text{NDF}: 2288932.1/32$

Out: -111.956 ± 0.043 $\chi^2/\text{NDF}: 1997570.7/35$

All: -110.742 ± 0.031 $\chi^2/\text{NDF}: 4288045.0/68$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 205.791+/-1.188 χ^2/NDF : 642.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 206.986+/-1.192 χ^2/NDF : 541.2/15

Left: 206.386+/-0.842 χ^2/NDF : 1184.2/32

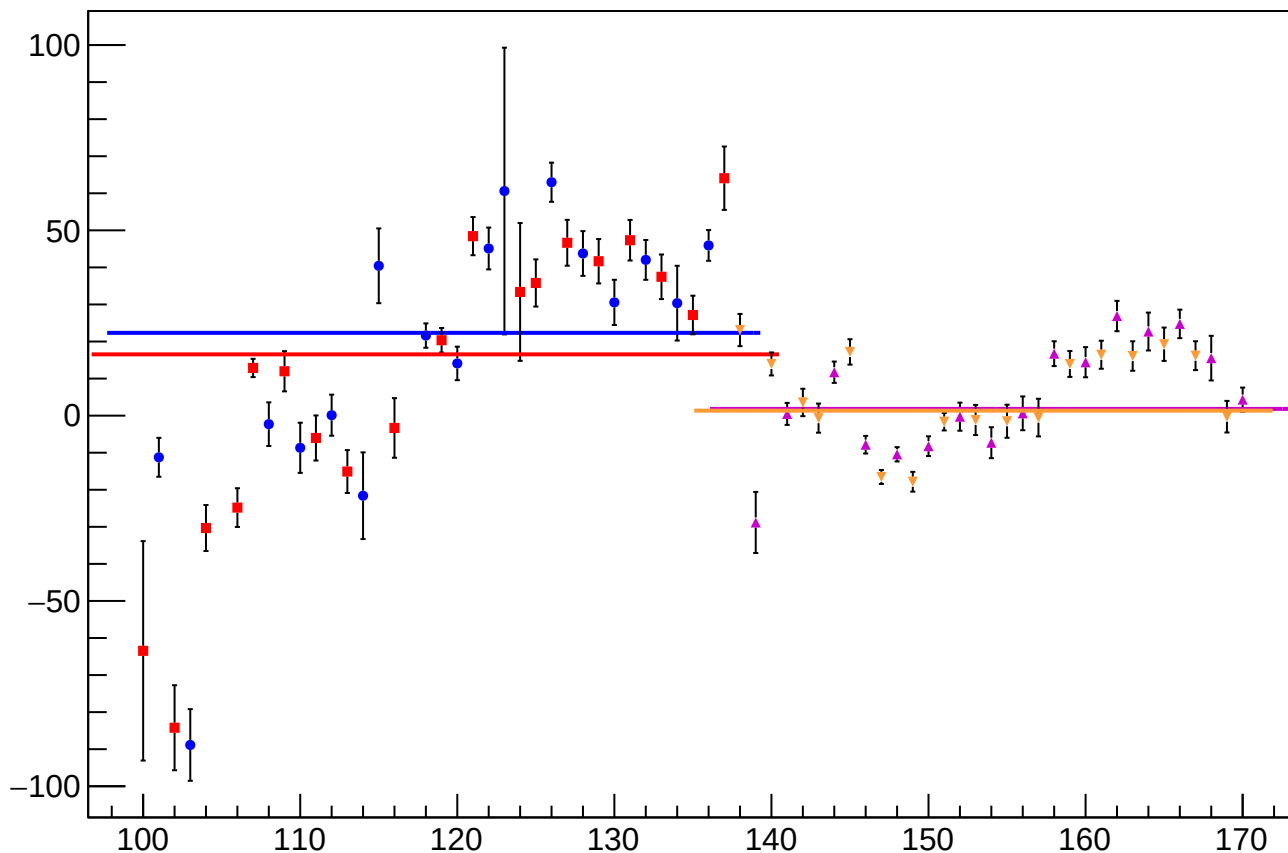
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 206.986+/-1.192 χ^2/NDF : 541.2/15

Out: 205.791+/-1.188 χ^2/NDF : 642.5/16

All: 206.386+/-0.842 χ^2/NDF : 1184.2/32

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 22.342 ± 1.395 χ^2/NDF : 385.8/16

Left Out: 1.344 ± 0.812 χ^2/NDF : 281.0/16

Right Out: 16.537 ± 1.227 χ^2/NDF : 426.6/18

Left In: 1.825 ± 0.832 χ^2/NDF : 226.8/15

Left: 1.579 ± 0.581 χ^2/NDF : 508.0/32

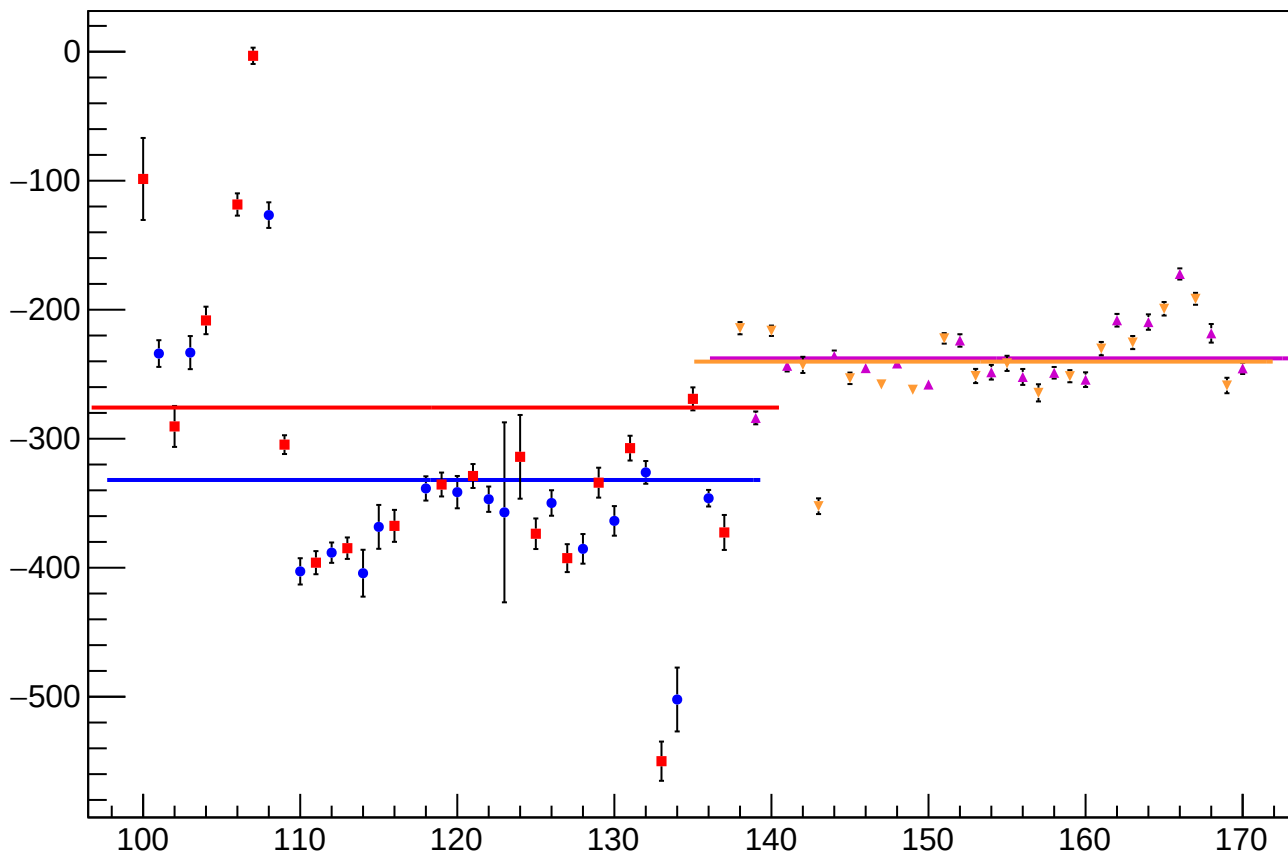
Right: 19.069 ± 0.922 χ^2/NDF : 822.2/35

In: 7.205 ± 0.714 χ^2/NDF : 772.2/32

Out: 5.969 ± 0.677 χ^2/NDF : 814.2/35

All: 6.554 ± 0.491 χ^2/NDF : 1587.9/68

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -331.989 ± 2.580 $\chi^2/\text{NDF}: 785.0/16$

Left Out: -240.228 ± 1.175 $\chi^2/\text{NDF}: 702.2/16$

Right Out: -275.842 ± 2.325 $\chi^2/\text{NDF}: 3362.2/18$

Left In: -237.713 ± 1.170 $\chi^2/\text{NDF}: 452.7/15$

Left: -238.966 ± 0.829 $\chi^2/\text{NDF}: 1157.2/32$

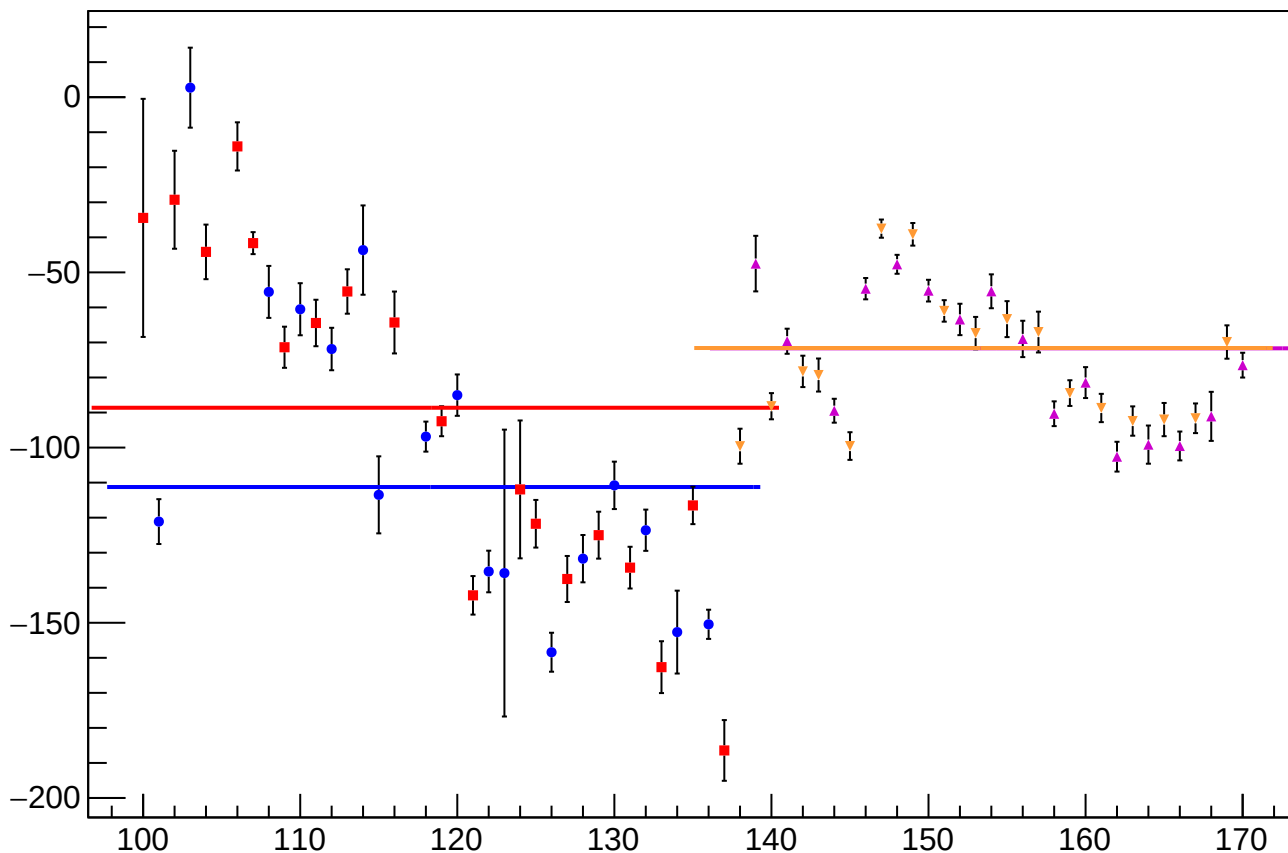
Right: -300.997 ± 1.727 $\chi^2/\text{NDF}: 4408.6/35$

In: -253.798 ± 1.066 $\chi^2/\text{NDF}: 2345.0/32$

Out: -247.474 ± 1.049 $\chi^2/\text{NDF}: 4251.4/35$

All: -250.584 ± 0.747 $\chi^2/\text{NDF}: 6614.2/68$

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -111.257 ± 1.597 χ^2/NDF : 509.6/16

Left Out: -71.585 ± 0.966 χ^2/NDF : 491.6/16

Right Out: -88.633 ± 1.433 χ^2/NDF : 971.0/18

Left In: -71.674 ± 0.981 χ^2/NDF : 356.7/15

Left: -71.629 ± 0.688 χ^2/NDF : 848.3/32

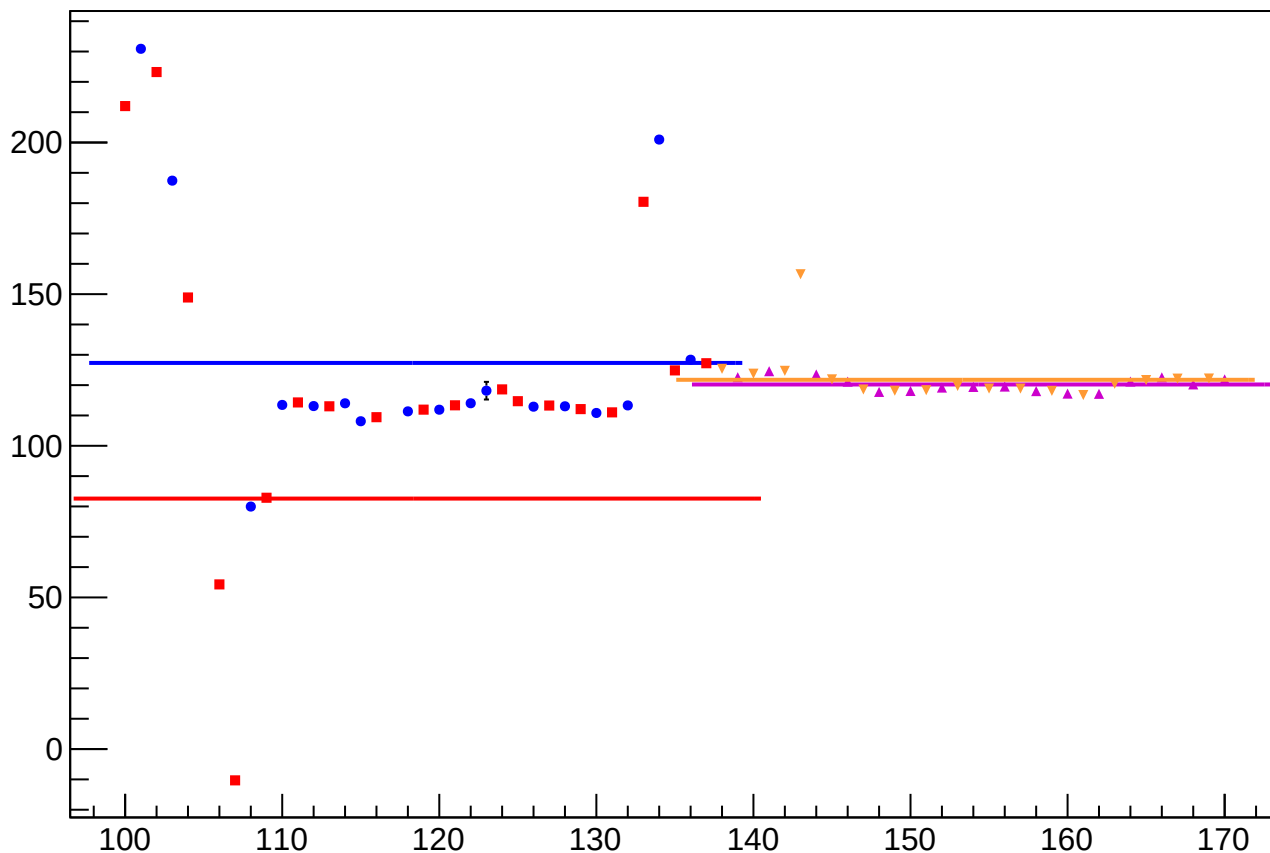
Right: -98.723 ± 1.067 χ^2/NDF : 1591.7/35

In: -82.520 ± 0.836 χ^2/NDF : 1312.1/32

Out: -76.908 ± 0.801 χ^2/NDF : 1559.9/35

All: -79.593 ± 0.578 χ^2/NDF : 2895.5/68

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 127.323 $\pm$ 0.089 χ^2 /NDF: 187776.4/16

Left Out: 121.761 $\pm$ 0.047 χ^2 /NDF: 23681.6/16

Right Out: 82.595 $\pm$ 0.075 χ^2 /NDF: 765022.5/18

Left In: 120.216 $\pm$ 0.047 χ^2 /NDF: 2513.6/15

Left: 120.980 $\pm$ 0.033 χ^2 /NDF: 26738.9/32

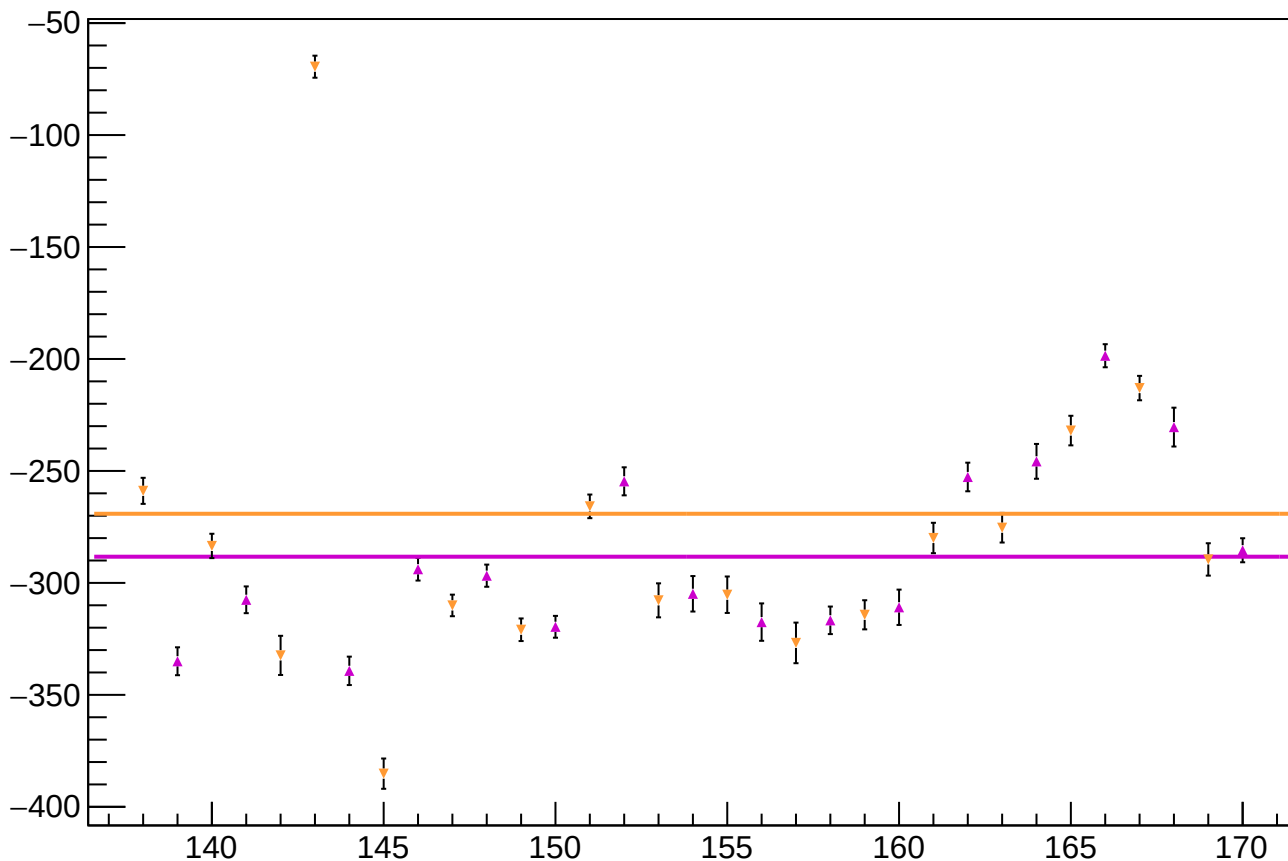
Right: 101.169 $\pm$ 0.058 χ^2 /NDF: 1099026.8/35

In: 121.732 $\pm$ 0.041 χ^2 /NDF: 195256.2/32

Out: 110.772 $\pm$ 0.040 χ^2 /NDF: 982947.0/35

All: 116.065 $\pm$ 0.029 χ^2 /NDF: 1214602.9/68

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -269.126+/-1.497 χ^2/NDF :2462.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -288.301+/-1.533 χ^2/NDF :660.6/15

Left: -278.484+/-1.071 χ^2/NDF : 3202.8/32

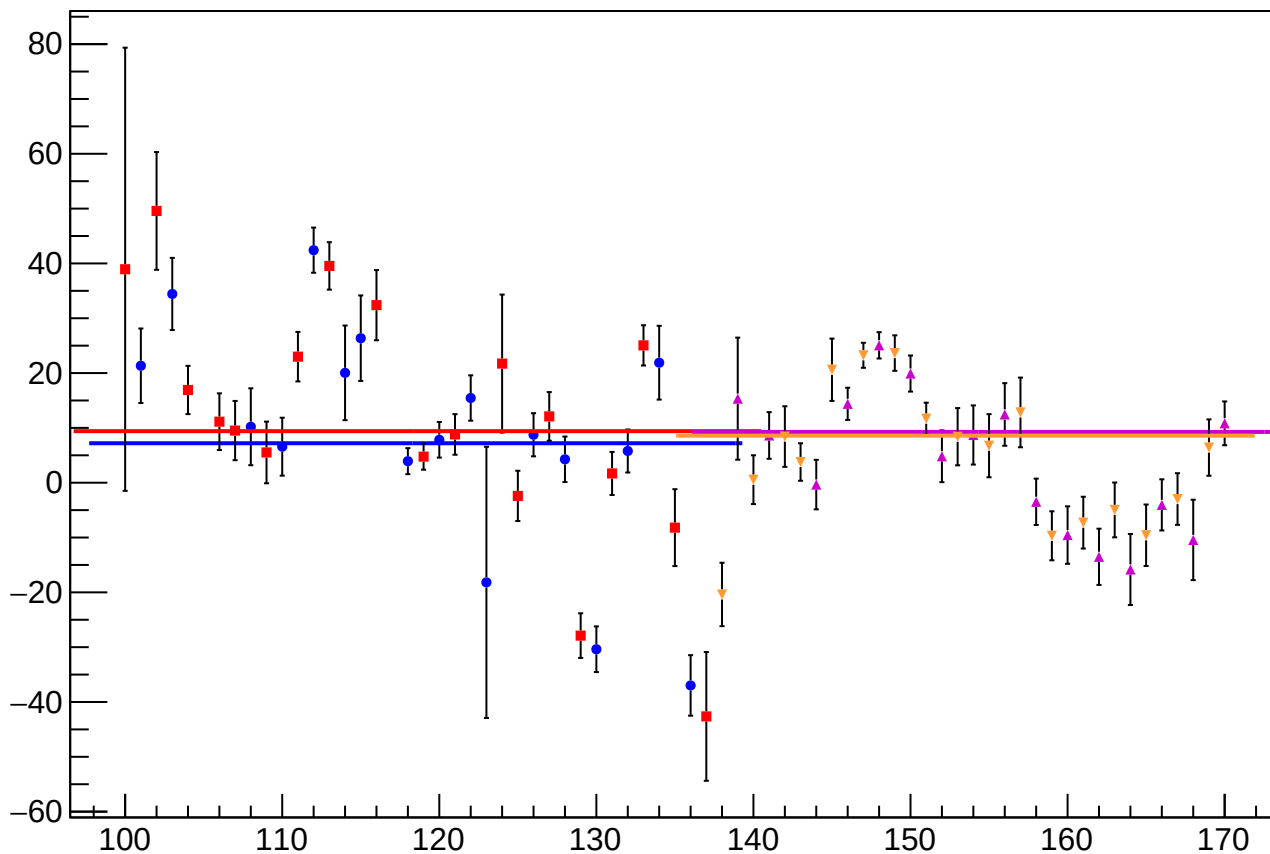
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -288.301+/-1.533 χ^2/NDF :660.6/15

Out: -269.126+/-1.497 χ^2/NDF :2462.1/16

All: -278.484+/-1.071 χ^2/NDF : 3202.8/32

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.199 ± 1.103 χ^2/NDF : 260.9/16

Left Out: 8.578 ± 1.012 χ^2/NDF : 151.4/16

Right Out: 9.403 ± 1.071 χ^2/NDF : 232.2/18

Left In: 9.263 ± 1.063 χ^2/NDF : 135.1/15

Left: 8.904 ± 0.733 χ^2/NDF : 286.7/32

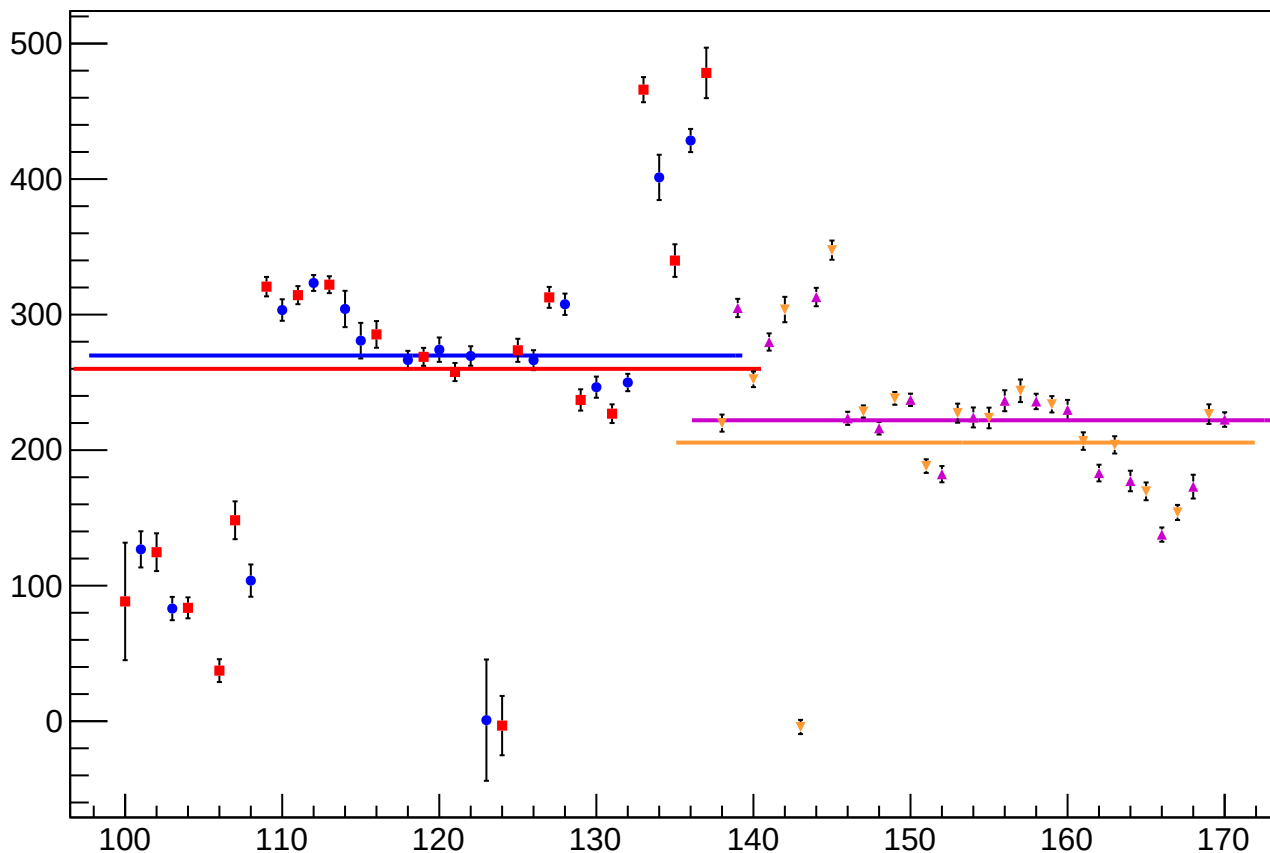
Right: 8.333 ± 0.768 χ^2/NDF : 495.1/35

In: 8.269 ± 0.765 χ^2/NDF : 397.8/32

Out: 8.967 ± 0.736 χ^2/NDF : 383.9/35

All: 8.632 ± 0.530 χ^2/NDF : 782.1/68

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 269.806 $\pm$ 2.089 χ^2 /NDF: 1374.1/16

Left Out: 205.562 $\pm$ 1.477 χ^2 /NDF:2444.1/16

Right Out: 259.980 $\pm$ 1.977 χ^2 /NDF: 2538.6/18

Left In: 222.023 $\pm$ 1.498 χ^2 /NDF:844.1/15

Left: 213.676 $\pm$ 1.051 χ^2 /NDF: 3349.5/32

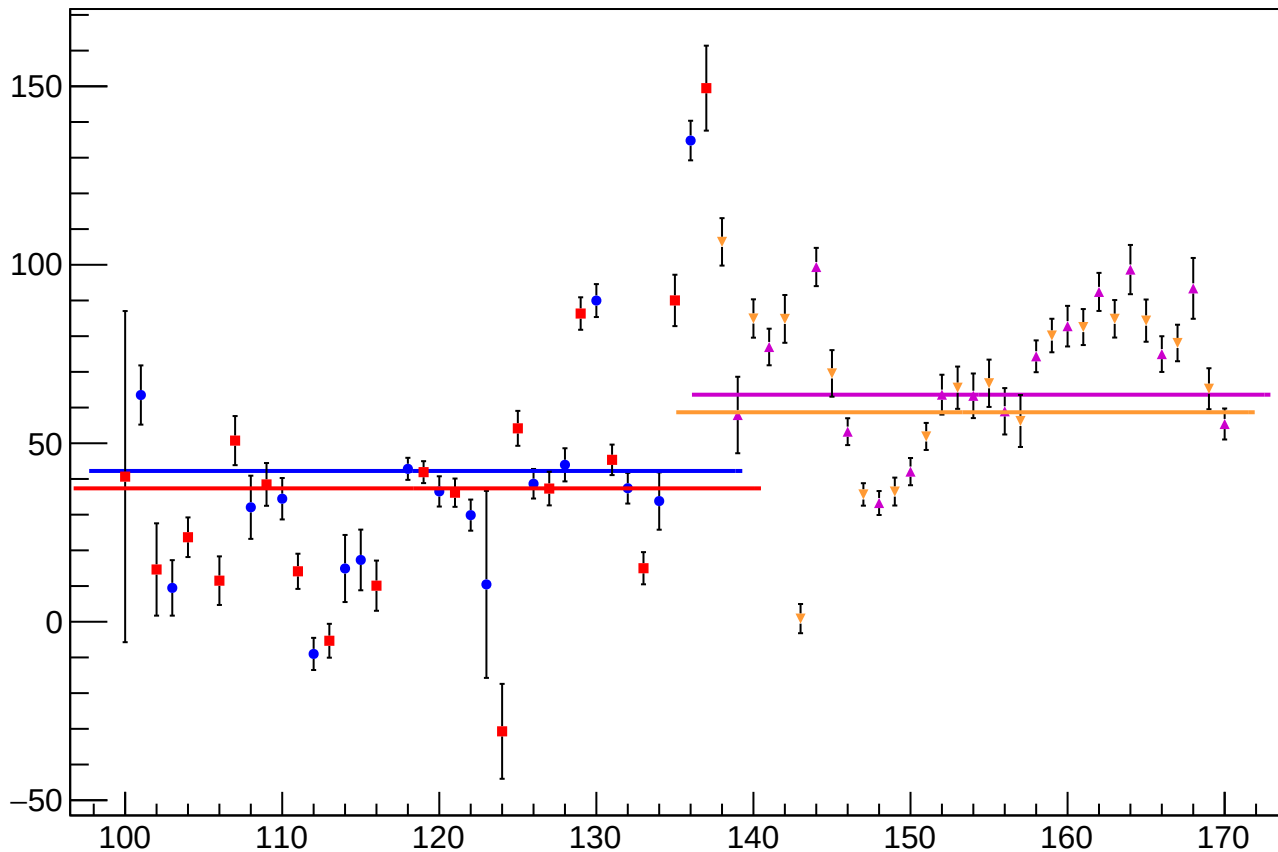
Right: 264.622 $\pm$ 1.436 χ^2 /NDF: 3924.4/35

In: 238.243 $\pm$ 1.217 χ^2 /NDF:2563.8/32

Out: 225.050 $\pm$ 1.183 χ^2 /NDF:5469.1/35

All: 231.459 $\pm$ 0.848 χ^2 /NDF: 8093.3/68

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.242 $\pm$ 1.274 χ^2/NDF : 574.4/16

Left Out: 58.686 $\pm$ 1.207 χ^2/NDF : 487.9/16

Right Out: 37.367 $\pm$ 1.235 χ^2/NDF : 472.3/18

Left In: 63.604 $\pm$ 1.255 χ^2/NDF : 266.5/15

Left: 61.049 $\pm$ 0.870 χ^2/NDF : 762.4/32

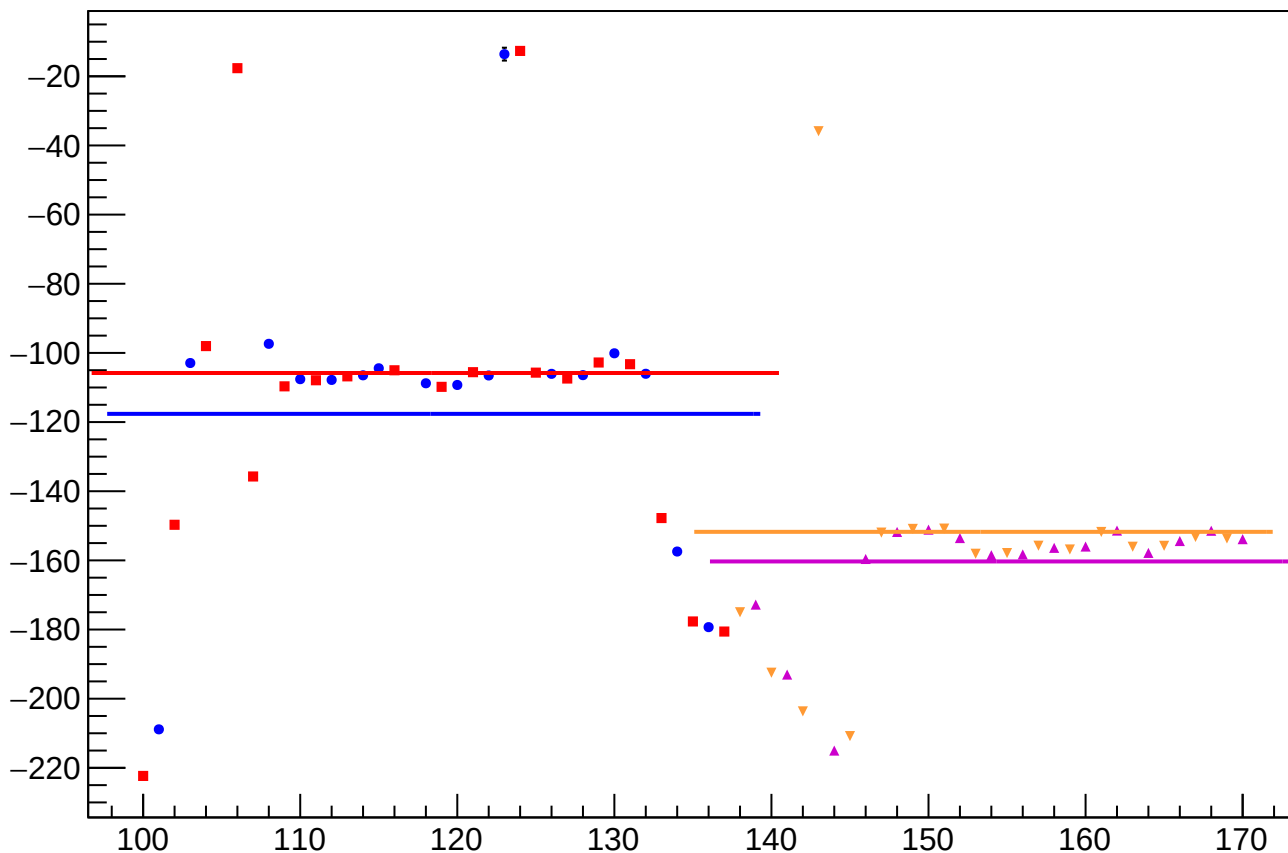
Right: 39.728 $\pm$ 0.886 χ^2/NDF : 1054.2/35

In: 53.083 $\pm$ 0.894 χ^2/NDF : 983.7/32

Out: 48.270 $\pm$ 0.863 χ^2/NDF : 1112.7/35

All: 50.592 $\pm$ 0.621 χ^2/NDF : 2111.4/68

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -117.625+/-0.079 χ^2/NDF : 141872.3/16

Left Out: -151.745+/-0.059 χ^2/NDF : 403987.0/16

Right Out: -105.807+/-0.073 χ^2/NDF : 323108.1/18

Left In: -160.310+/-0.060 χ^2/NDF : 62313.9/15

Left: -156.001+/-0.042 χ^2/NDF : 476686.1/32

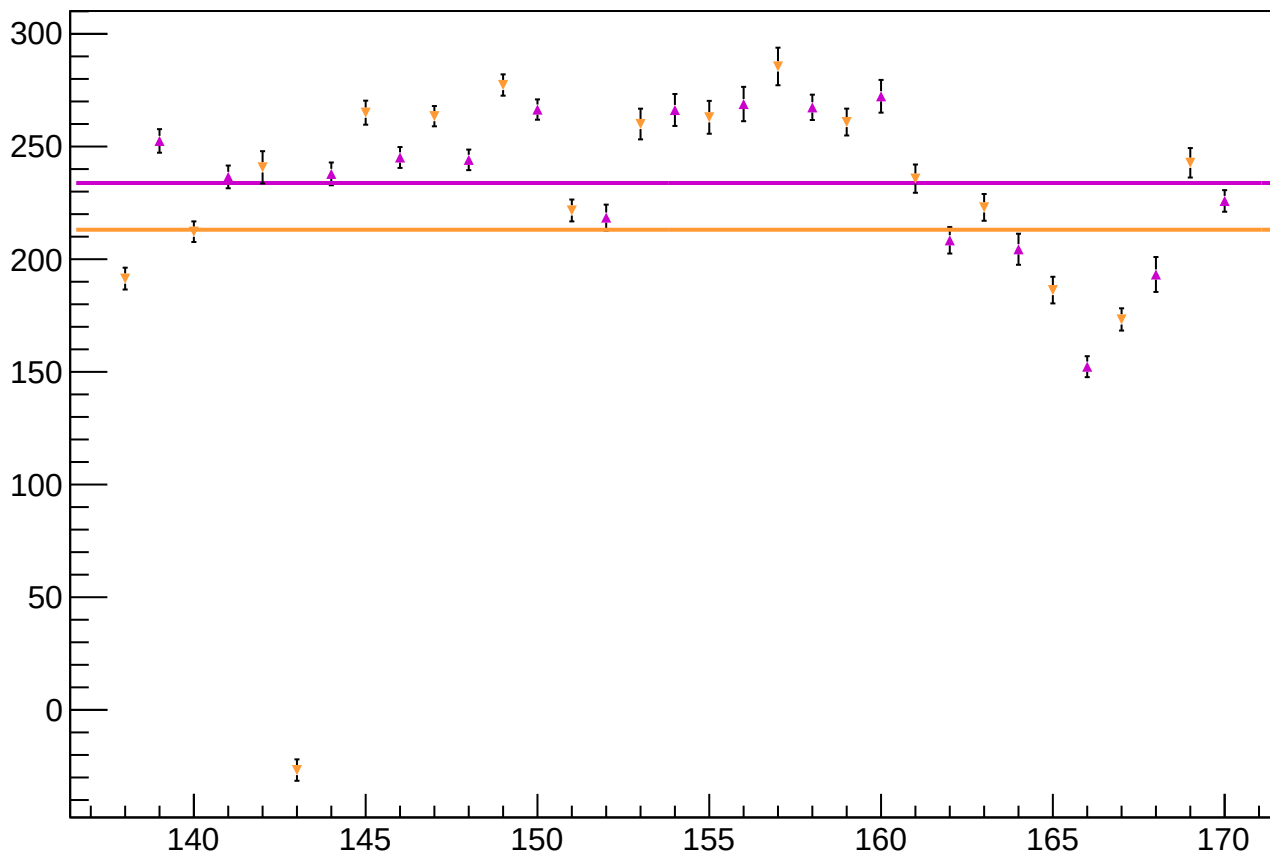
Right: -111.270+/-0.053 χ^2/NDF : 477157.6/35

In: -144.706+/-0.047 χ^2/NDF : 391641.1/32

Out: -133.446+/-0.046 χ^2/NDF : 966571.0/35

All: -138.892+/-0.033 χ^2/NDF : 1387253.1/68

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 213.084+/-1.342 χ^2/NDF :3342.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 233.821+/-1.369 χ^2/NDF :564.5/15

Left: 223.245+/-0.958 χ^2/NDF : 4023.8/32

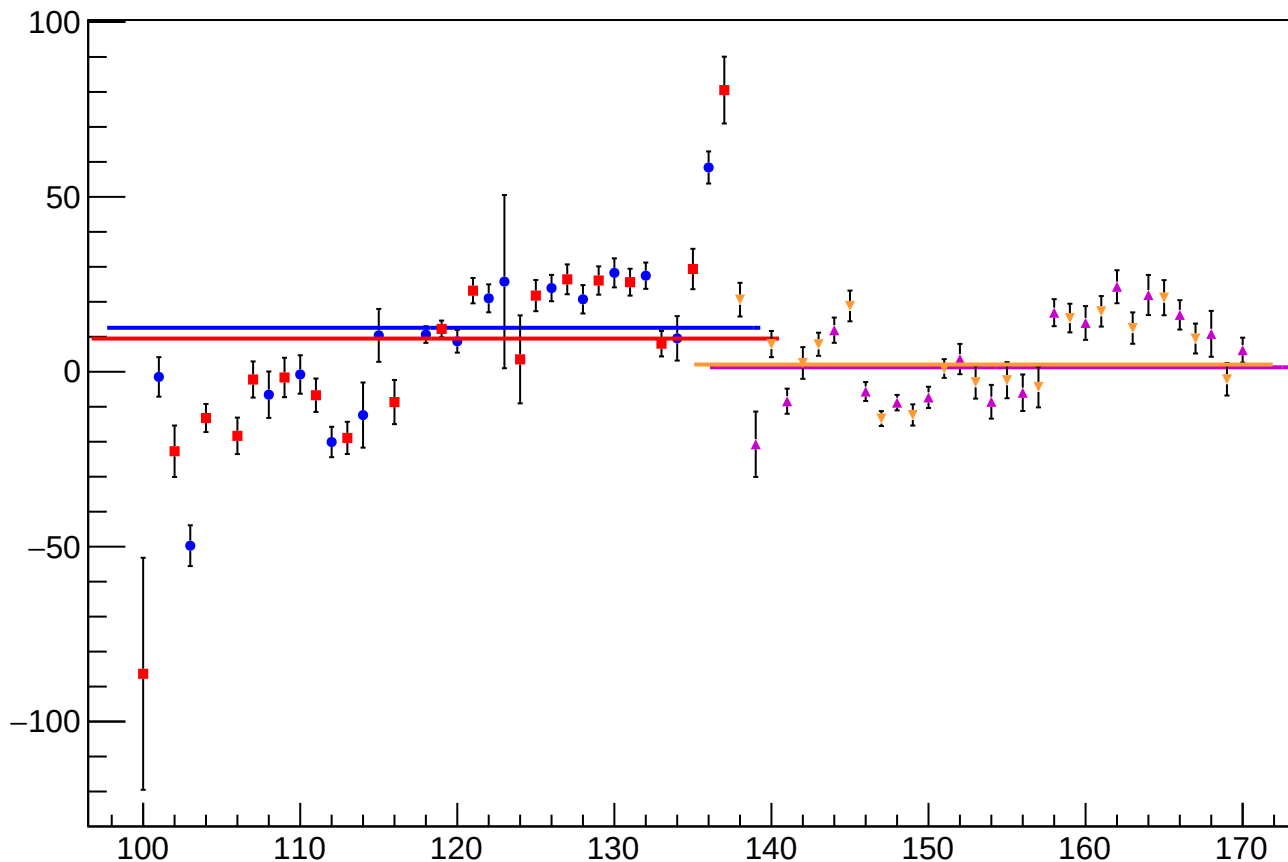
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 233.821+/-1.369 χ^2/NDF :564.5/15

Out: 213.084+/-1.342 χ^2/NDF :3342.2/16

All: 223.245+/-0.958 χ^2/NDF : 4023.8/32

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.574 $\pm$ 1.074 χ^2 /NDF: 348.0/16

Left Out: 2.075 $\pm$ 0.917 χ^2 /NDF:159.8/16

Right Out: 9.493 $\pm$ 1.047 χ^2 /NDF: 295.8/18

Left In: 1.280 $\pm$ 0.957 χ^2 /NDF:140.1/15

Left: 1.694 $\pm$ 0.662 χ^2 /NDF: 300.3/32

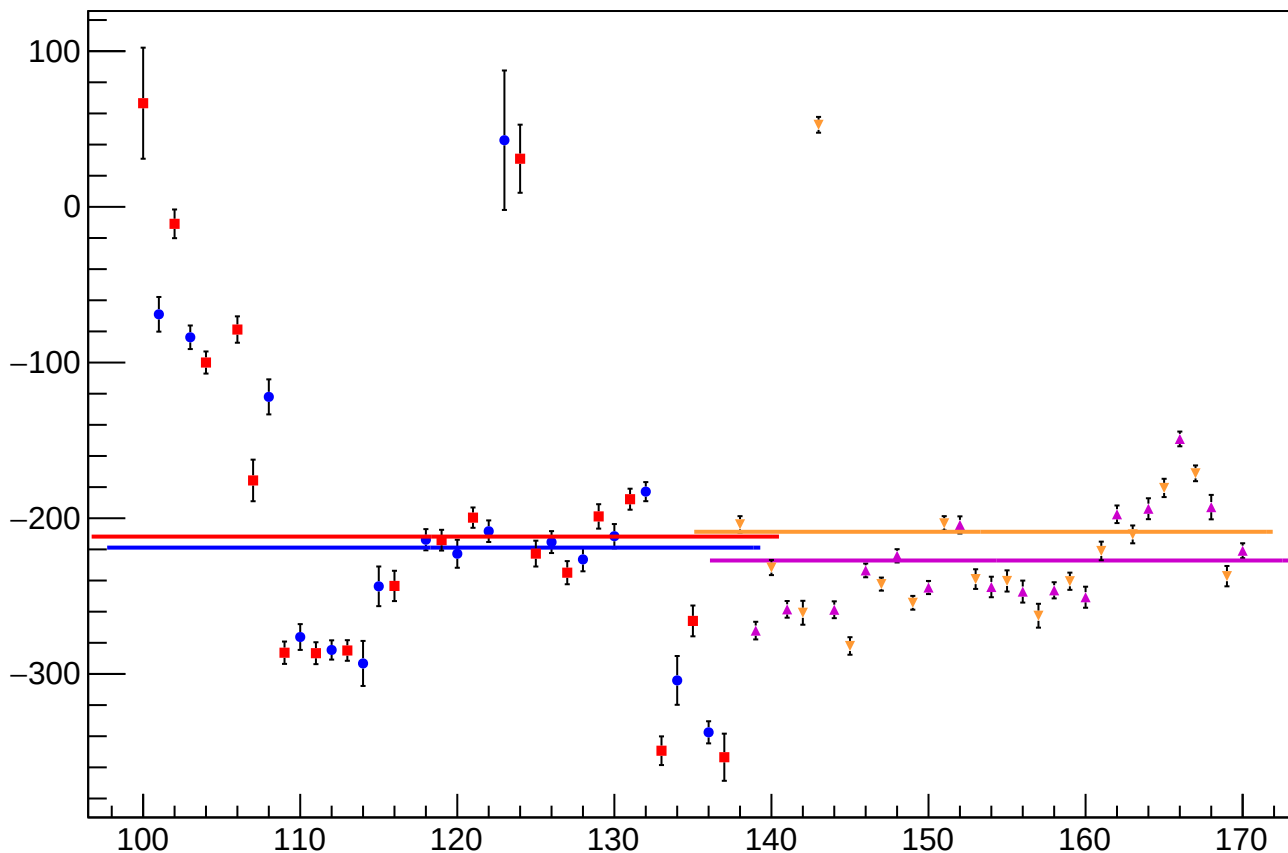
Right: 10.995 $\pm$ 0.750 χ^2 /NDF: 648.0/35

In: 6.277 $\pm$ 0.714 χ^2 /NDF:549.8/32

Out: 5.293 $\pm$ 0.690 χ^2 /NDF:484.0/35

All: 5.768 $\pm$ 0.496 χ^2 /NDF: 1034.8/68

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -218.855 ± 2.023 $\chi^2/\text{NDF}: 1146.6/16$

Left Out: -208.688 ± 1.329 $\chi^2/\text{NDF}: 3291.0/16$

Right Out: -211.780 ± 1.924 $\chi^2/\text{NDF}: 1885.2/18$

Left In: -227.131 ± 1.342 $\chi^2/\text{NDF}: 553.5/15$

Left: -217.816 ± 0.944 $\chi^2/\text{NDF}: 3939.9/32$

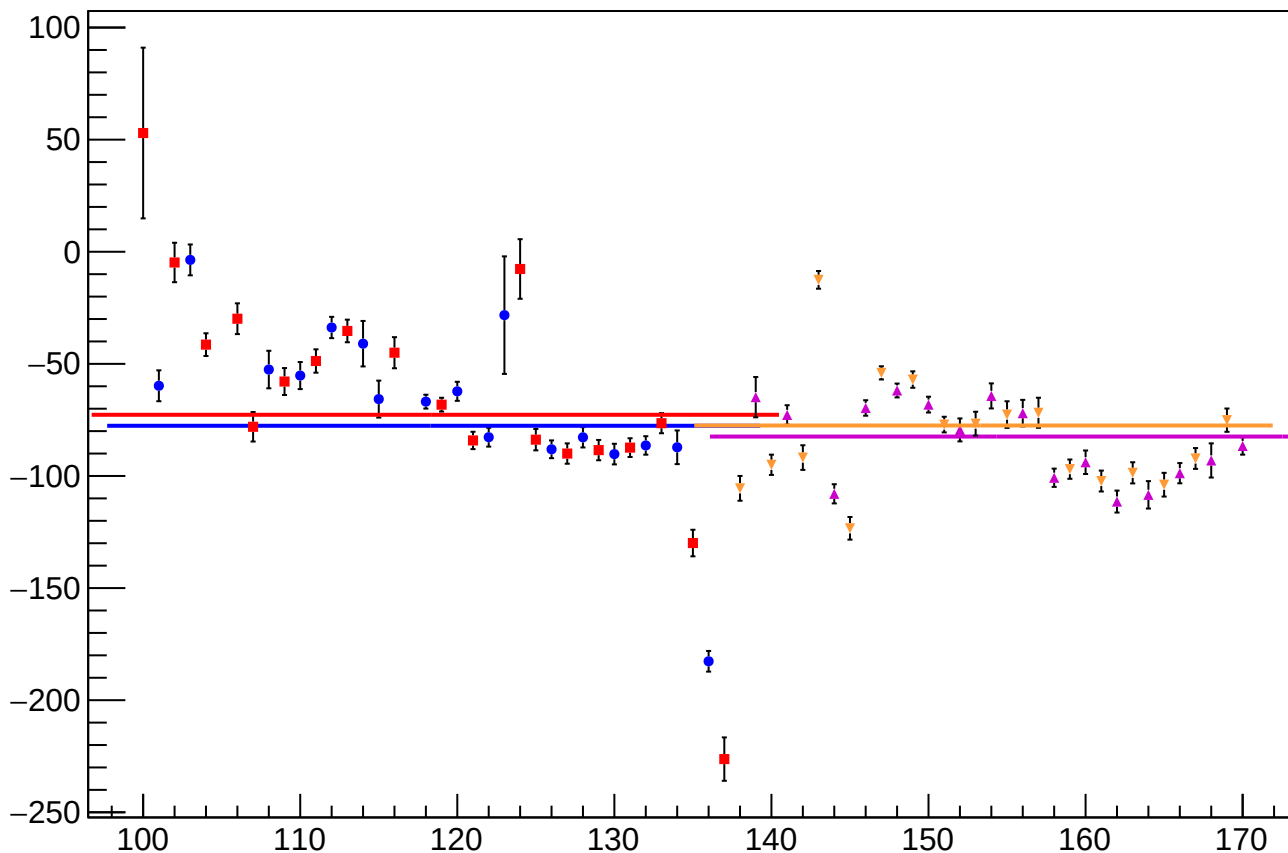
Right: -215.141 ± 1.394 $\chi^2/\text{NDF}: 3038.2/35$

In: -224.601 ± 1.118 $\chi^2/\text{NDF}: 1711.7/32$

Out: -209.686 ± 1.093 $\chi^2/\text{NDF}: 5177.9/35$

All: -216.975 ± 0.782 $\chi^2/\text{NDF}: 6980.6/68$

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -77.612 ± 1.236 χ^2/NDF : 815.9/16

Left Out: -77.488 ± 1.090 χ^2/NDF : 600.6/16

Right Out: -72.710 ± 1.206 χ^2/NDF : 671.4/18

Left In: -82.421 ± 1.128 χ^2/NDF : 227.0/15

Left: -79.871 ± 0.784 χ^2/NDF : 837.4/32

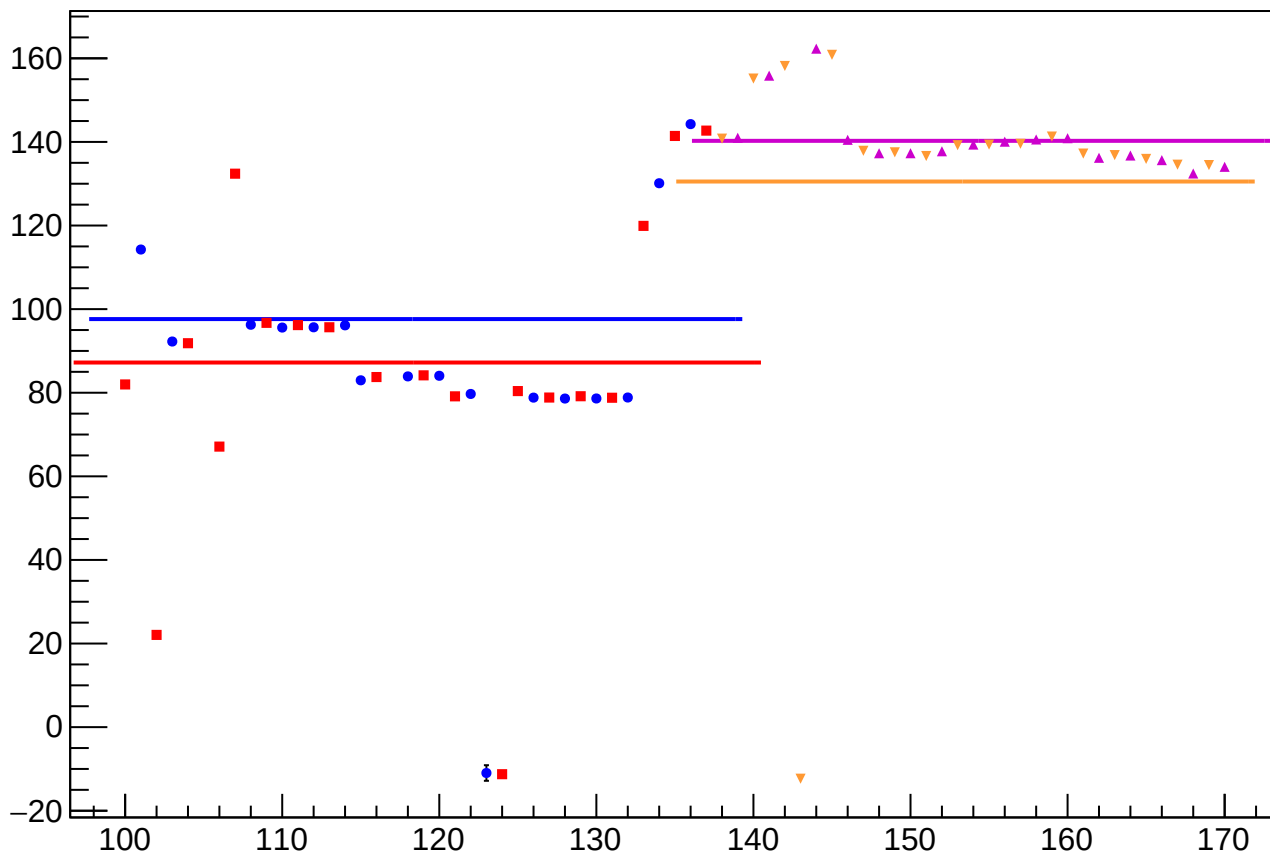
Right: -75.100 ± 0.863 χ^2/NDF : 1495.4/35

In: -80.237 ± 0.833 χ^2/NDF : 1051.1/32

Out: -75.339 ± 0.809 χ^2/NDF : 1280.6/35

All: -77.715 ± 0.580 χ^2/NDF : 2349.5/68

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 97.620+/-0.074 χ^2/NDF : 94045.2/16

Left Out: 130.528+/-0.053 χ^2/NDF : 550871.5/16

Right Out: 87.226+/-0.068 χ^2/NDF : 220850.5/18

Left In: 140.260+/-0.053 χ^2/NDF : 17474.4/15

Left: 135.381+/-0.038 χ^2/NDF : 585002.0/32

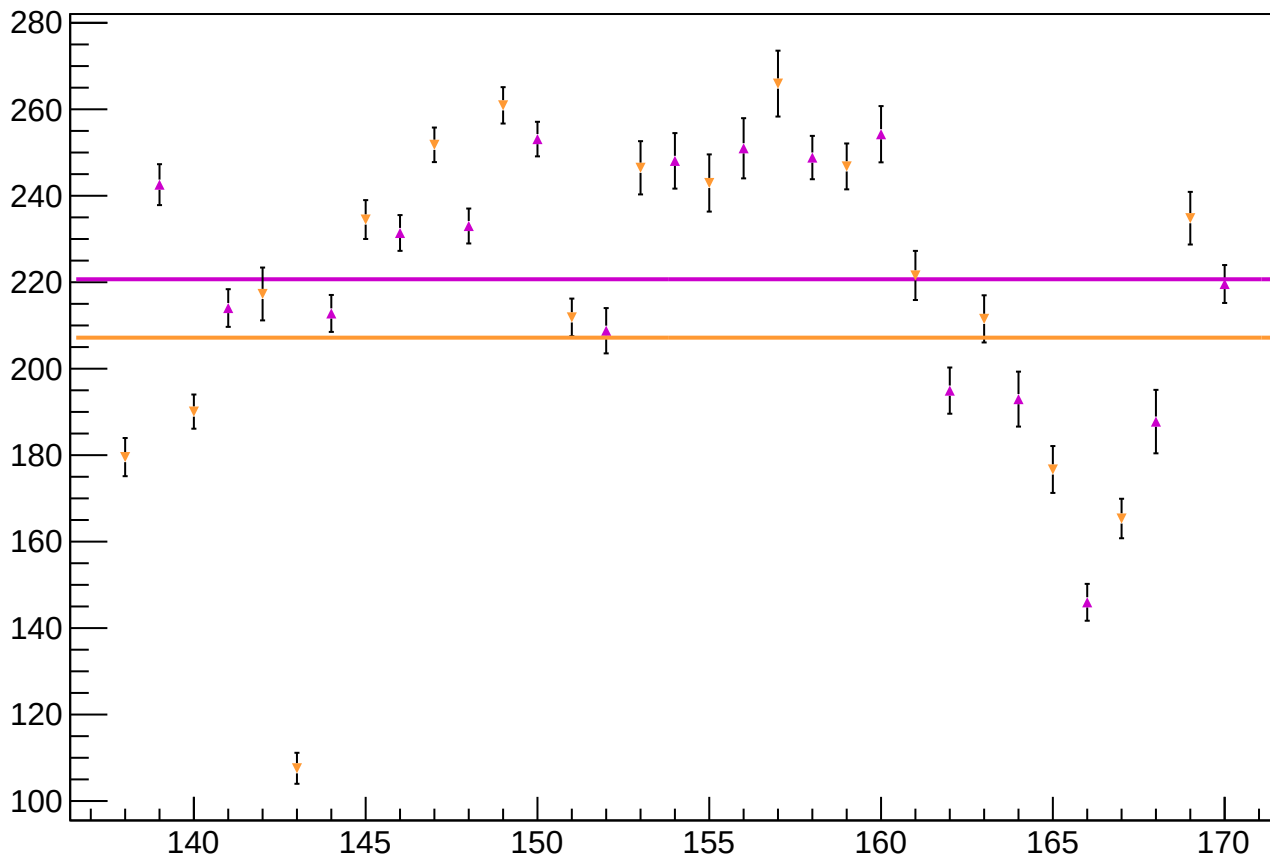
Right: 92.025+/-0.050 χ^2/NDF : 325598.1/35

In: 125.587+/-0.043 χ^2/NDF : 330996.7/32

Out: 114.149+/-0.042 χ^2/NDF : 1021864.6/35

All: 119.700+/-0.030 χ^2/NDF : 1388877.0/68

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 207.179+/-1.181 χ^2/NDF :1486.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 220.687+/-1.227 χ^2/NDF :578.9/15

Left: 213.677+/-0.851 χ^2/NDF : 2128.3/32

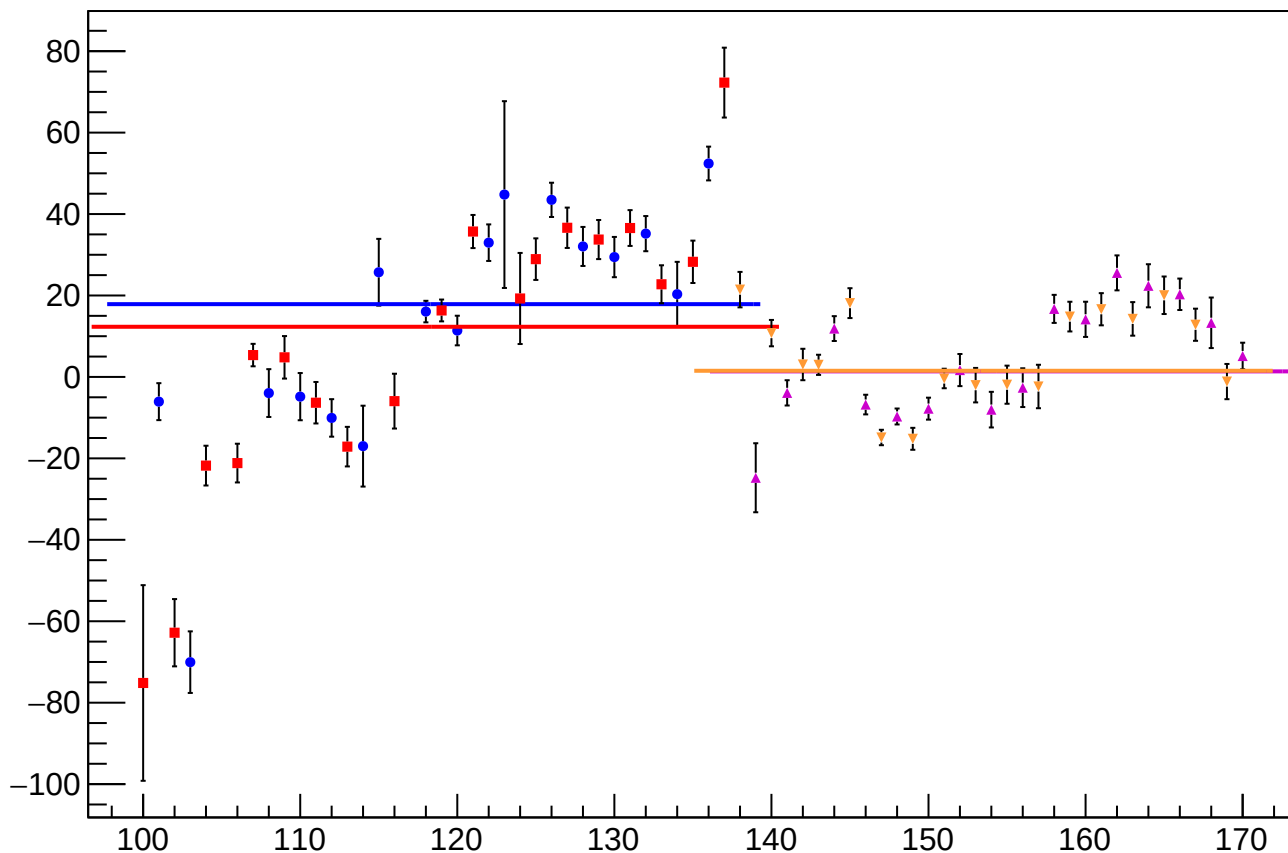
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 220.687+/-1.227 χ^2/NDF :578.9/15

Out: 207.179+/-1.181 χ^2/NDF :1486.5/16

All: 213.677+/-0.851 χ^2/NDF : 2128.3/32

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 17.872 ± 1.166 $\chi^2/\text{NDF}: 395.3/16$

Left Out: 1.511 ± 0.805 $\chi^2/\text{NDF}: 228.1/16$

Right Out: 12.317 ± 1.083 $\chi^2/\text{NDF}: 444.0/18$

Left In: 1.362 ± 0.854 $\chi^2/\text{NDF}: 189.7/15$

Left: 1.441 ± 0.586 $\chi^2/\text{NDF}: 417.9/32$

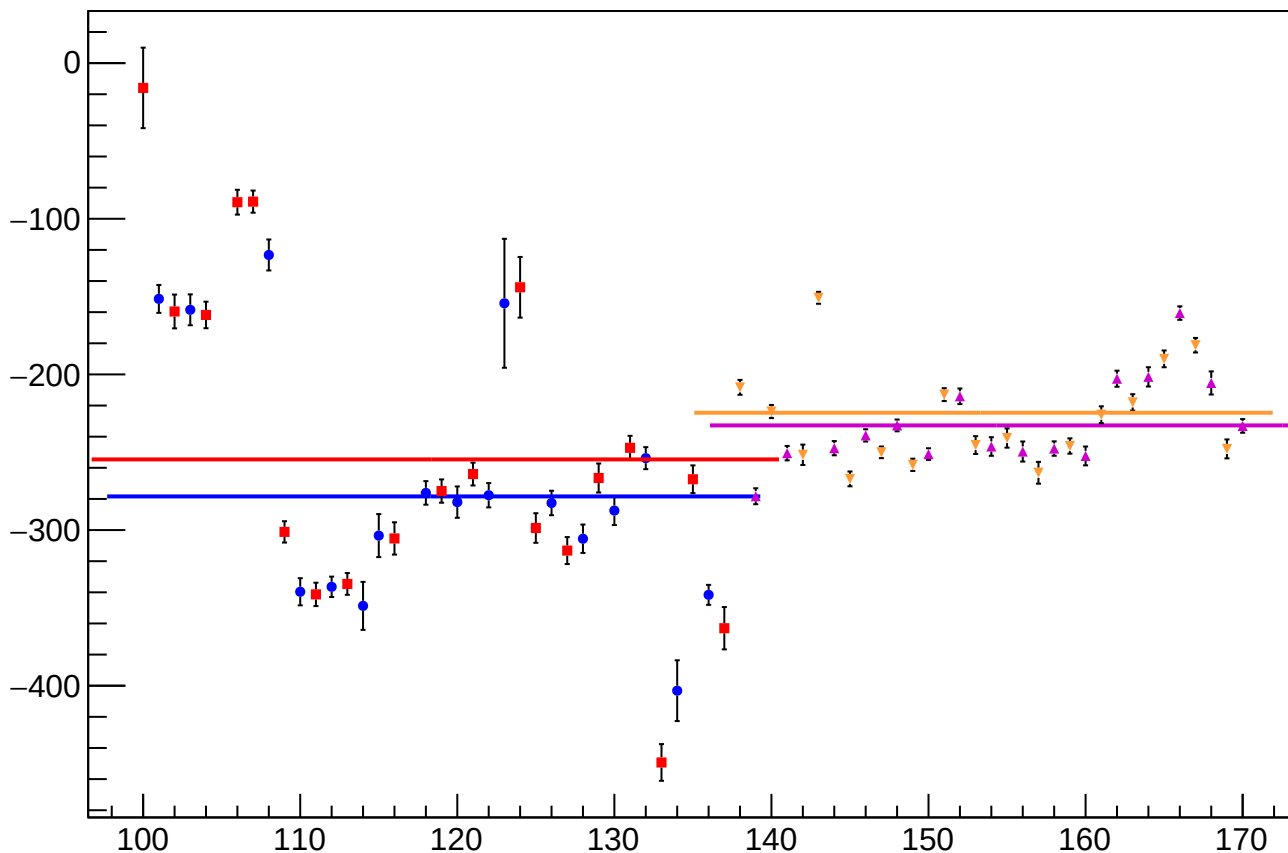
Right: 14.891 ± 0.794 $\chi^2/\text{NDF}: 851.6/35$

In: 7.129 ± 0.689 $\chi^2/\text{NDF}: 715.6/32$

Out: 5.356 ± 0.646 $\chi^2/\text{NDF}: 736.2/35$

All: 6.185 ± 0.471 $\chi^2/\text{NDF}: 1455.4/68$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -278.380 ± 2.185 $\chi^2/\text{NDF}: 910.6/16$

Left Out: -224.626 ± 1.173 $\chi^2/\text{NDF}: 820.3/16$

Right Out: -254.603 ± 2.020 $\chi^2/\text{NDF}: 2037.5/18$

Left In: -232.767 ± 1.204 $\chi^2/\text{NDF}: 526.4/15$

Left: -228.593 ± 0.840 $\chi^2/\text{NDF}: 1370.2/32$

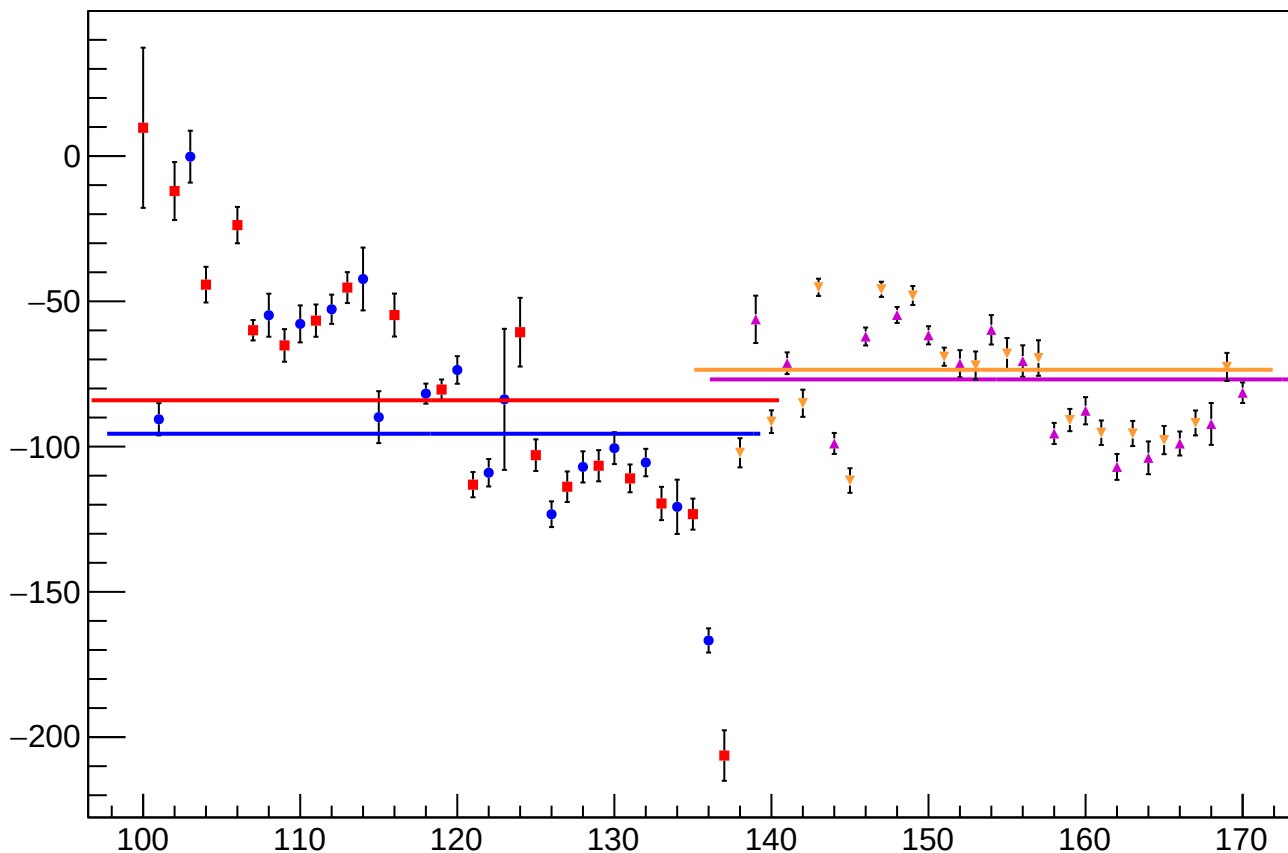
Right: -265.560 ± 1.483 $\chi^2/\text{NDF}: 3011.9/35$

In: -243.389 ± 1.054 $\chi^2/\text{NDF}: 1771.4/32$

Out: -232.190 ± 1.015 $\chi^2/\text{NDF}: 3022.4/35$

All: -237.575 ± 0.731 $\chi^2/\text{NDF}: 4852.4/68$

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -95.576 ± 1.340 χ^2/NDF : 671.2/16

Left Out: -73.557 ± 0.960 χ^2/NDF : 525.6/16

Right Out: -84.062 ± 1.257 χ^2/NDF : 783.2/18

Left In: -76.872 ± 1.009 χ^2/NDF : 306.4/15

Left: -75.132 ± 0.695 χ^2/NDF : 837.7/32

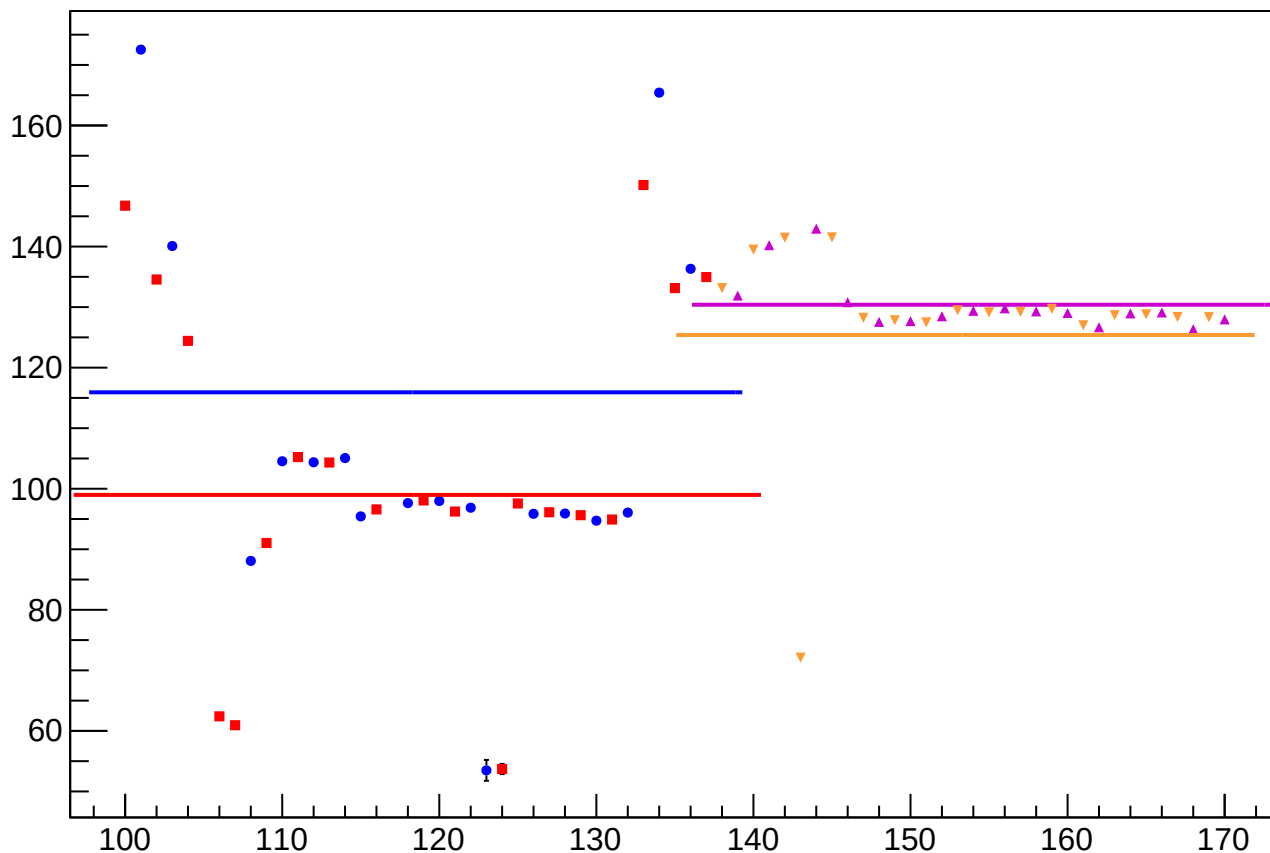
Right: -89.449 ± 0.917 χ^2/NDF : 1493.7/35

In: -83.636 ± 0.806 χ^2/NDF : 1102.0/32

Out: -77.426 ± 0.763 χ^2/NDF : 1352.9/35

All: -80.359 ± 0.554 χ^2/NDF : 2486.2/68

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 115.927 $\pm$ 0.078 χ^2 /NDF: 105791.4/16

Left Out: 125.398 $\pm$ 0.047 χ^2 /NDF:142494.6/16

Right Out: 98.981 $\pm$ 0.069 χ^2 /NDF: 172974.2/18

Left In: 130.392 $\pm$ 0.048 χ^2 /NDF:8420.3/15

Left: 127.850 $\pm$ 0.034 χ^2 /NDF: 156431.4/32

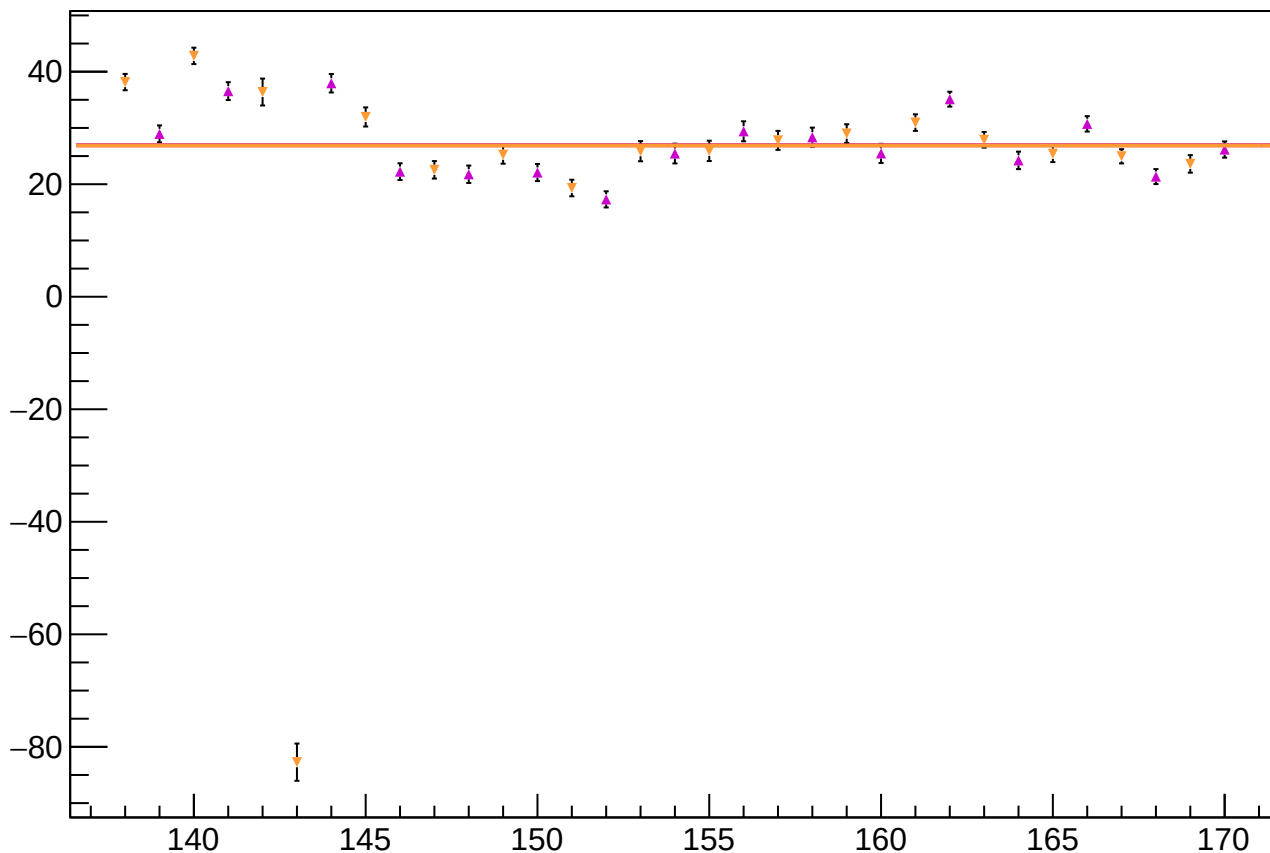
Right: 106.321 $\pm$ 0.052 χ^2 /NDF: 305233.1/35

In: 126.454 $\pm$ 0.041 χ^2 /NDF:138970.1/32

Out: 116.924 $\pm$ 0.039 χ^2 /NDF:416337.6/35

All: 121.439 $\pm$ 0.028 χ^2 /NDF: 583852.8/68

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 26.879+/-0.389 χ^2/NDF :1353.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: 26.942+/-0.381 χ^2/NDF :230.3/15

Left: 26.911+/-0.272 χ^2/NDF : 1584.2/32

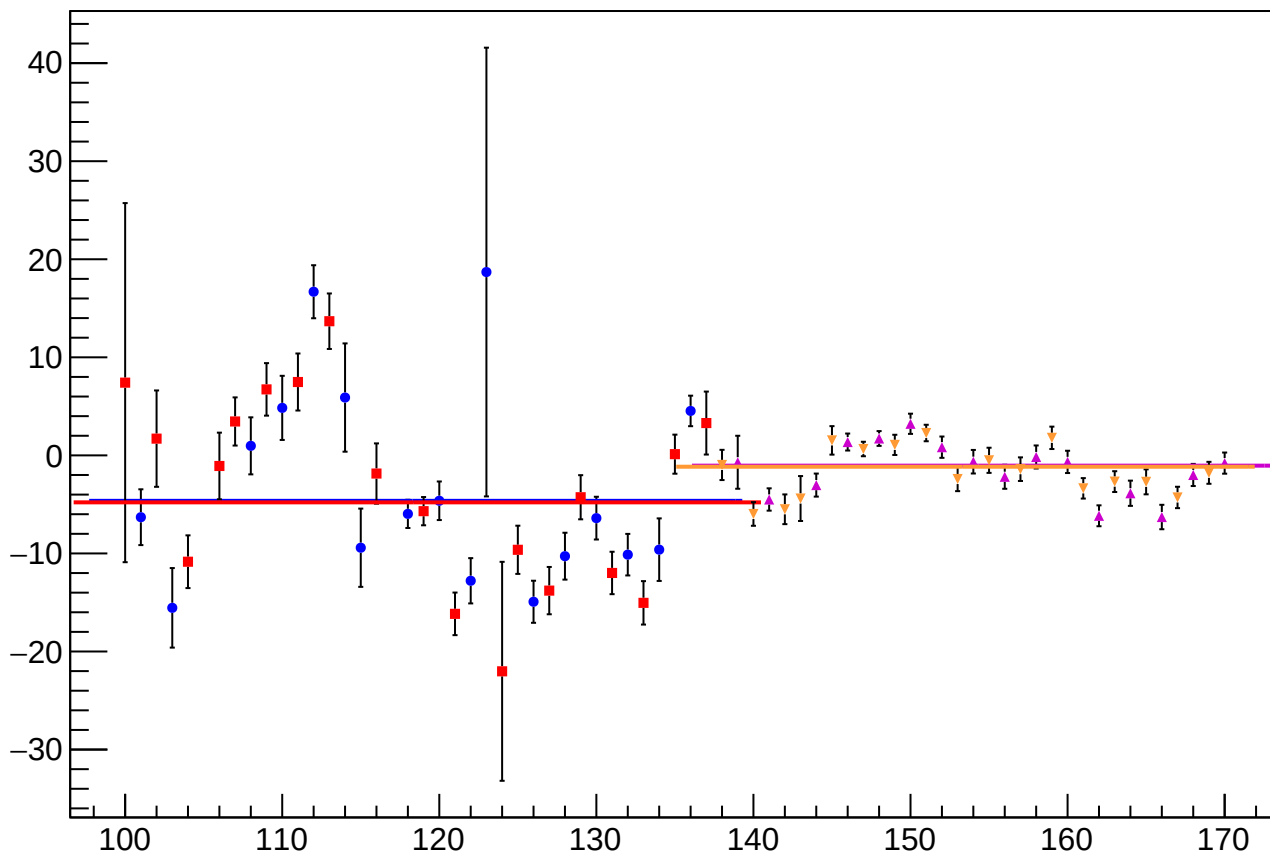
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: 26.942+/-0.381 χ^2/NDF :230.3/15

Out: 26.879+/-0.389 χ^2/NDF :1353.9/16

All: 26.911+/-0.272 χ^2/NDF : 1584.2/32

reg_asym_atl_dd_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.637 ± 0.588 $\chi^2/\text{NDF}: 174.4/16$

Left Out: -1.156 ± 0.275 $\chi^2/\text{NDF}: 81.6/16$

Right Out: -4.791 ± 0.585 $\chi^2/\text{NDF}: 192.5/18$

Left In: -1.048 ± 0.276 $\chi^2/\text{NDF}: 101.4/15$

Left: -1.102 ± 0.195 $\chi^2/\text{NDF}: 183.1/32$

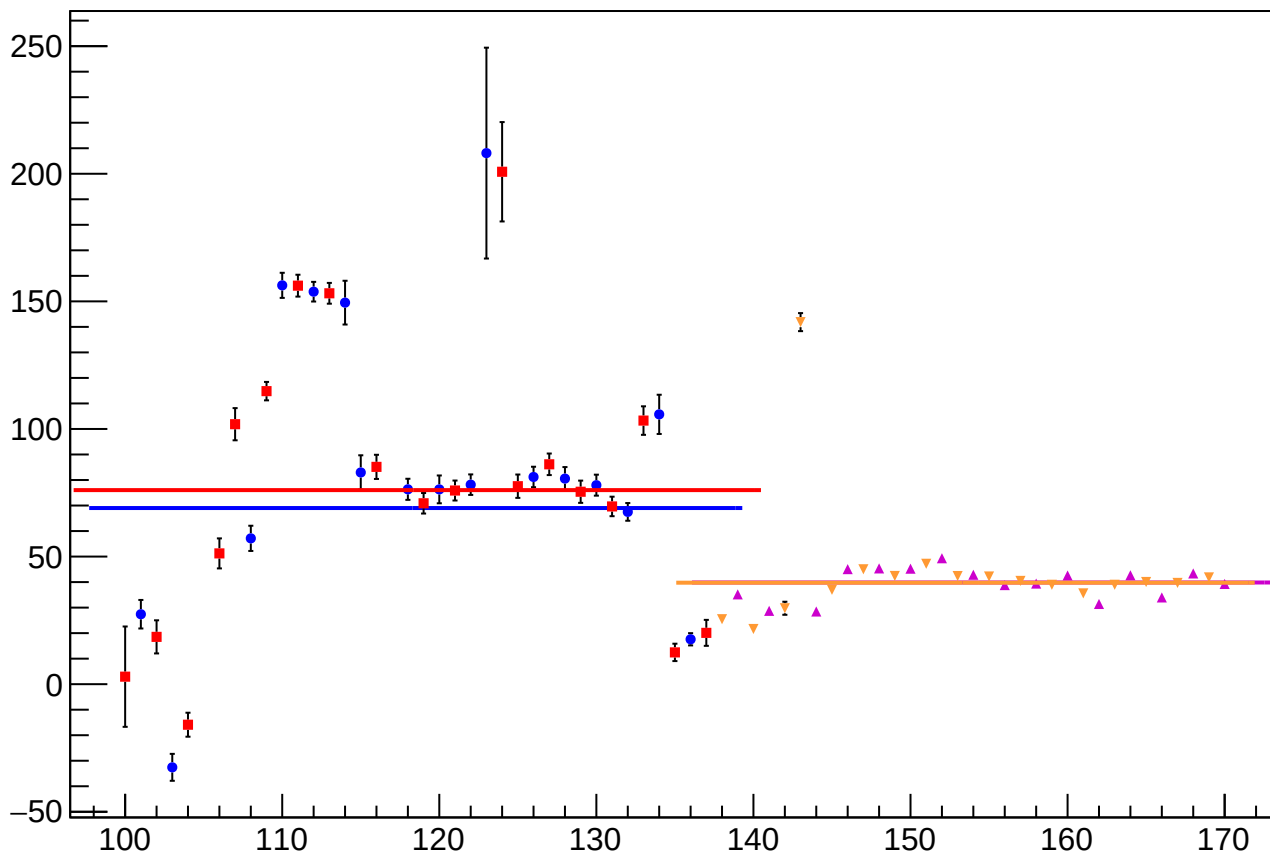
Right: -4.714 ± 0.414 $\chi^2/\text{NDF}: 367.0/35$

In: -1.696 ± 0.250 $\chi^2/\text{NDF}: 306.4/32$

Out: -1.816 ± 0.249 $\chi^2/\text{NDF}: 305.8/35$

All: -1.756 ± 0.176 $\chi^2/\text{NDF}: 612.3/68$

reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 69.019+/-1.083 χ^2/NDF : 1848.0/16

Left Out: 39.766+/-0.382 χ^2/NDF :1131.4/16

Right Out: 76.041+/-1.070 χ^2/NDF : 1881.9/18

Left In: 39.845+/-0.373 χ^2/NDF :261.9/15

Left: 39.806+/-0.267 χ^2/NDF : 1393.3/32

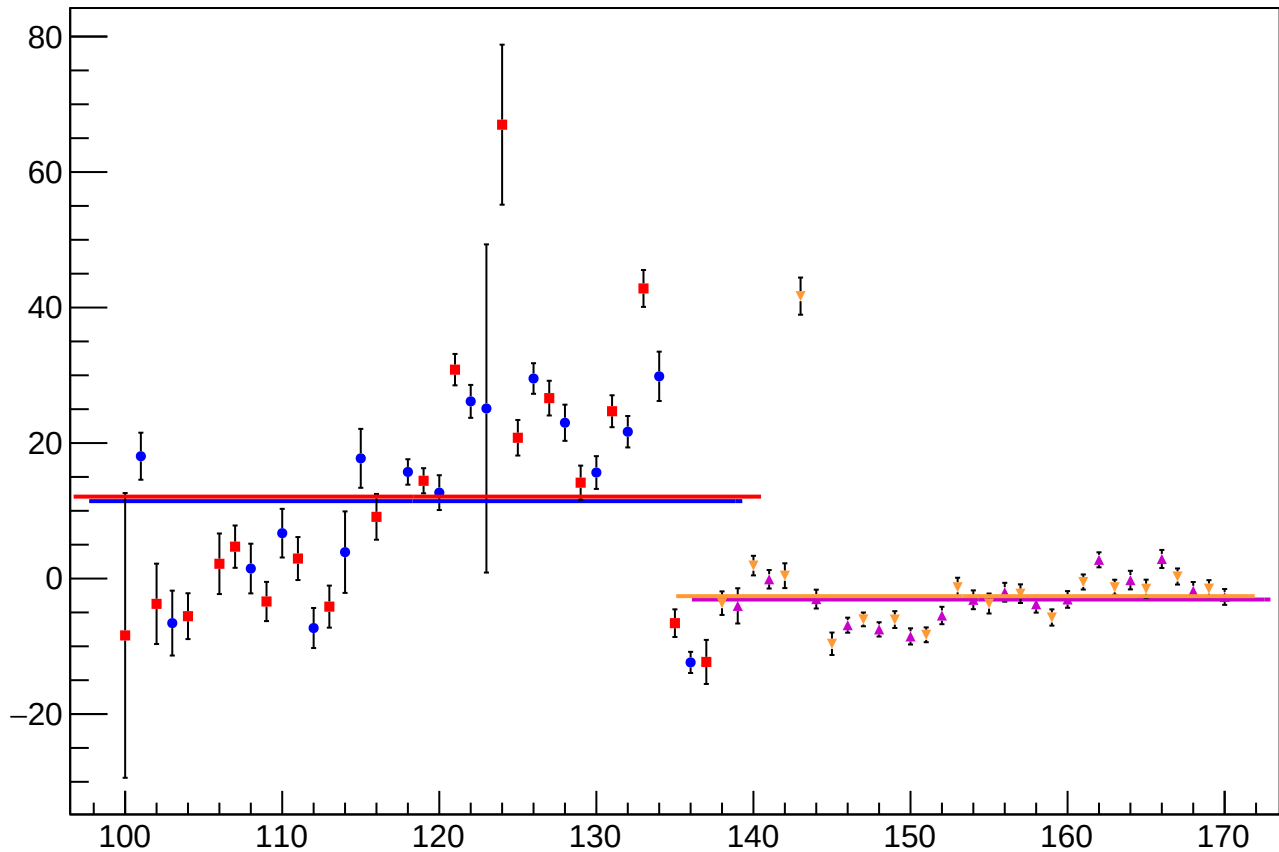
Right: 72.574+/-0.761 χ^2/NDF : 3751.2/35

In: 42.938+/-0.353 χ^2/NDF :2758.1/32

Out: 43.859+/-0.359 χ^2/NDF :4033.2/35

All: 43.390+/-0.252 χ^2/NDF : 6794.7/68

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 11.428 $\pm$ 0.665 χ^2 /NDF: 476.8/16

Left Out: -2.598 $\pm$ 0.320 χ^2 /NDF:358.4/16

Right Out: 12.095 $\pm$ 0.664 χ^2 /NDF: 539.1/18

Left In: -3.094 $\pm$ 0.320 χ^2 /NDF:112.7/15

Left: -2.846 $\pm$ 0.226 χ^2 /NDF: 472.3/32

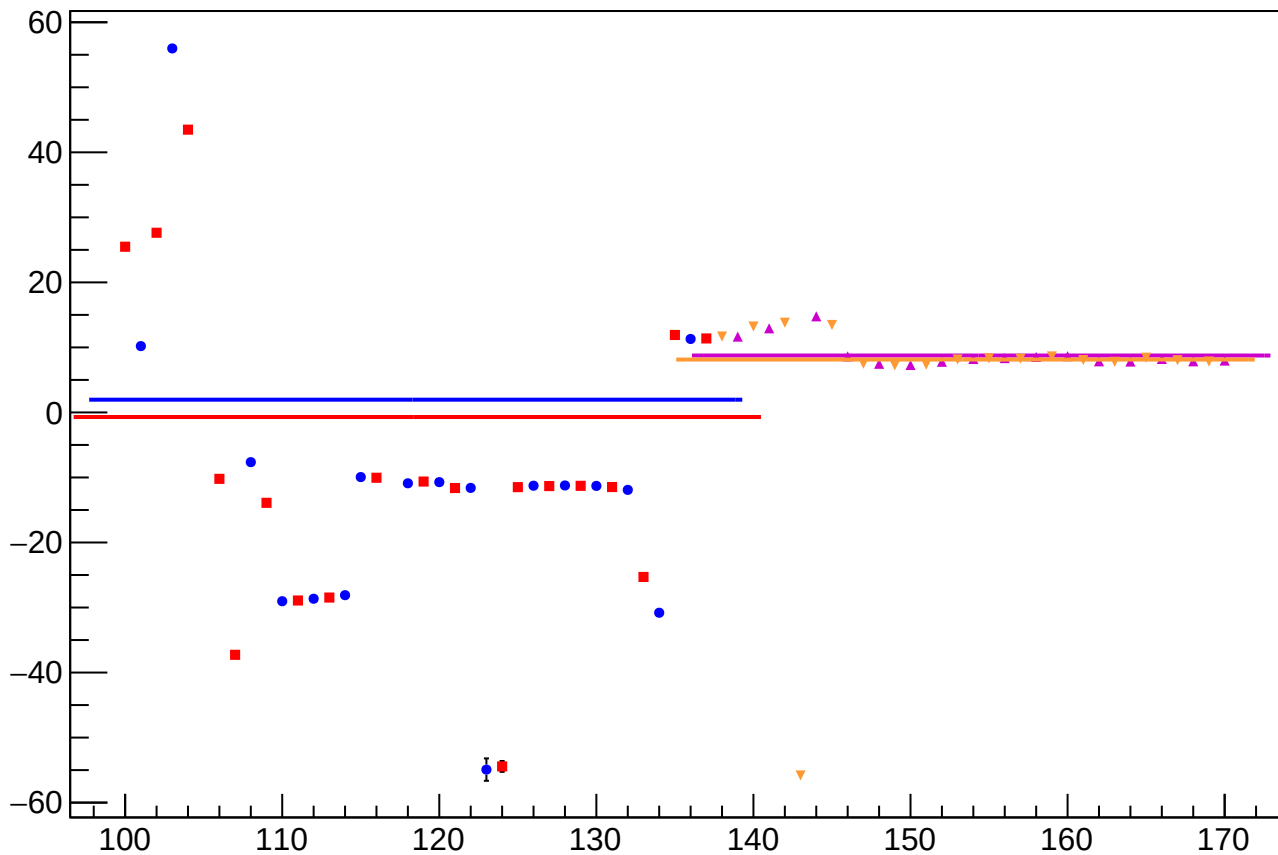
Right: 11.762 $\pm$ 0.470 χ^2 /NDF: 1016.4/35

In: -0.372 $\pm$ 0.288 χ^2 /NDF:976.4/32

Out: 0.175 $\pm$ 0.288 χ^2 /NDF:1294.9/35

All: -0.099 $\pm$ 0.204 χ^2 /NDF: 2273.0/68

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 1.960 ± 0.037 χ^2/NDF : 358457.0/16

Left Out: 8.132 ± 0.015 χ^2/NDF : 222614.9/16

Right Out: -0.704 ± 0.037 χ^2/NDF : 361168.6/18

Left In: 8.752 ± 0.015 χ^2/NDF : 15088.3/15

Left: 8.449 ± 0.010 χ^2/NDF : 238585.4/32

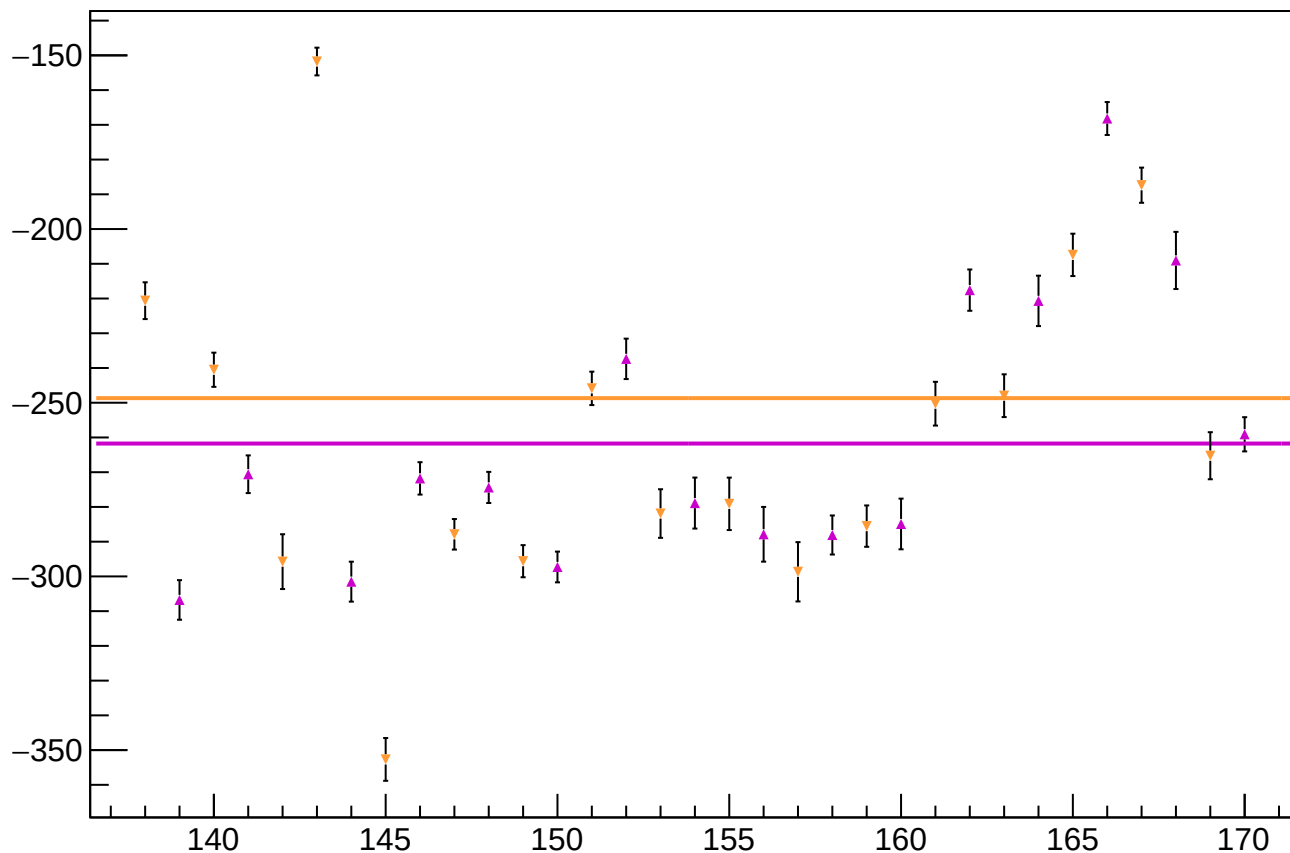
Right: 0.627 ± 0.026 χ^2/NDF : 722198.2/35

In: 7.843 ± 0.014 χ^2/NDF : 402502.0/32

Out: 6.899 ± 0.014 χ^2/NDF : 632534.3/35

All: 7.381 ± 0.010 χ^2/NDF : 1037400.5/68

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -248.675+/-1.357 χ^2/NDF :1434.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -261.750+/-1.408 χ^2/NDF :773.7/15

Left: -254.969+/-0.977 χ^2/NDF : 2253.0/32

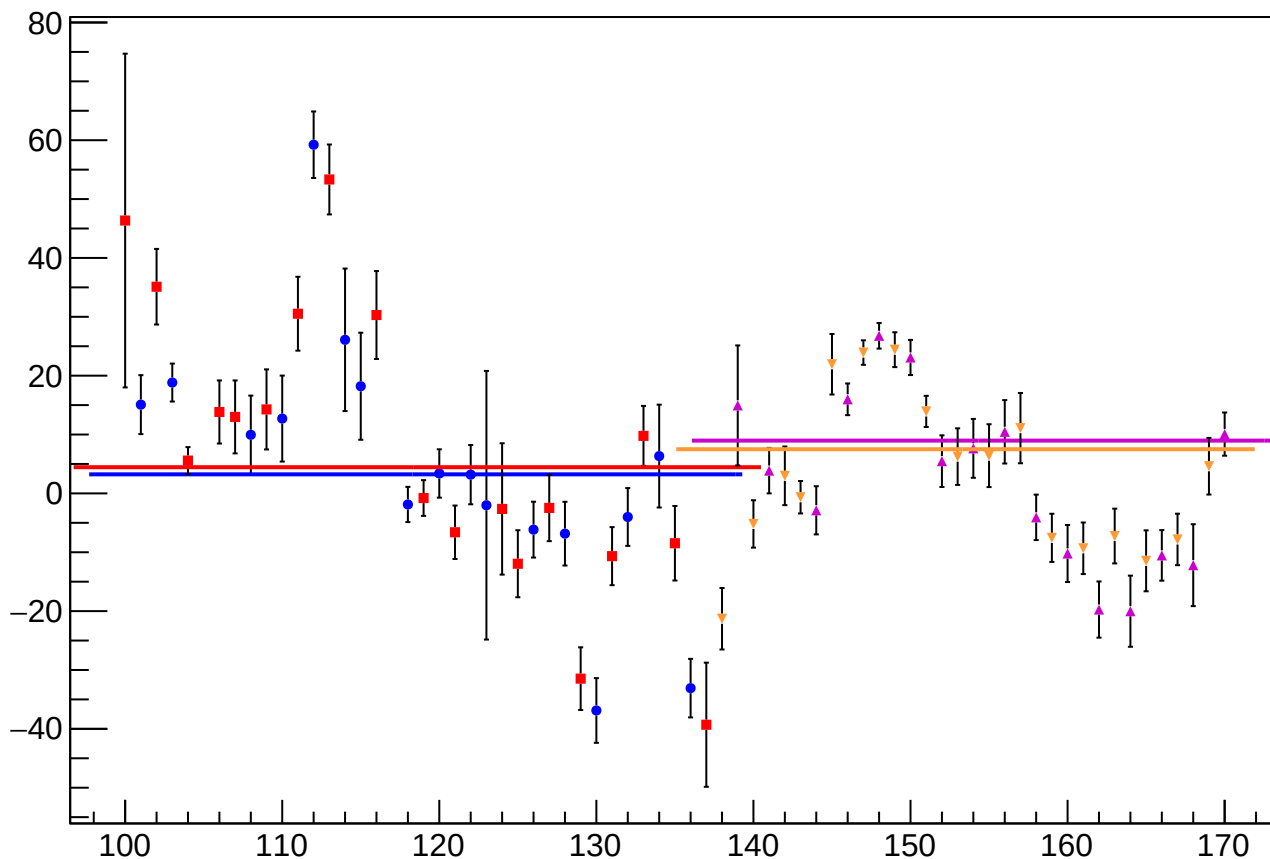
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -261.750+/-1.408 χ^2/NDF :773.7/15

Out: -248.675+/-1.357 χ^2/NDF :1434.7/16

All: -254.969+/-0.977 χ^2/NDF : 2253.0/32

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.237 ± 1.244 $\chi^2/\text{NDF}: 255.3/16$

Left Out: 7.506 ± 0.915 $\chi^2/\text{NDF}: 223.4/16$

Right Out: 4.450 ± 1.157 $\chi^2/\text{NDF}: 225.8/18$

Left In: 8.970 ± 0.973 $\chi^2/\text{NDF}: 223.9/15$

Left: 8.193 ± 0.667 $\chi^2/\text{NDF}: 448.5/32$

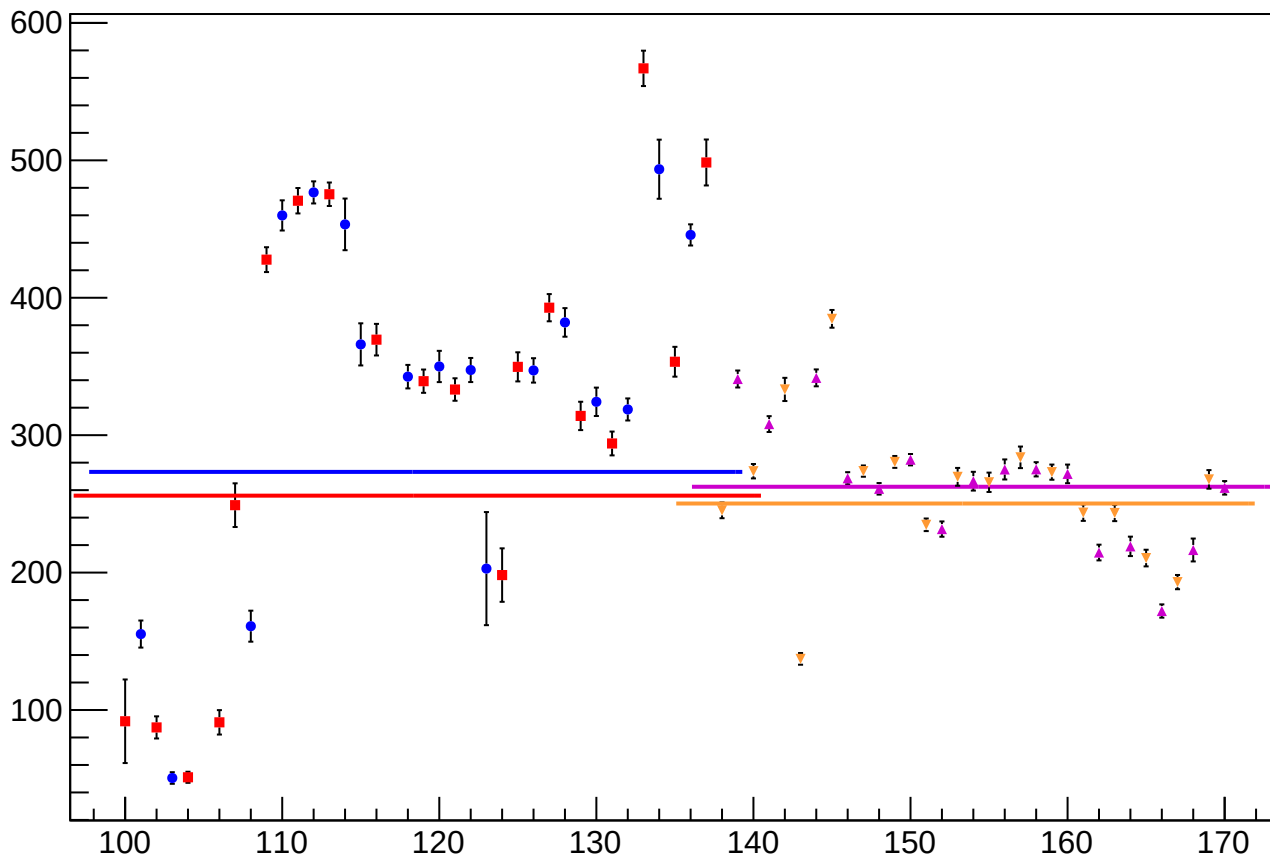
Right: 3.887 ± 0.847 $\chi^2/\text{NDF}: 481.6/35$

In: 6.792 ± 0.767 $\chi^2/\text{NDF}: 492.3/32$

Out: 6.329 ± 0.718 $\chi^2/\text{NDF}: 453.4/35$

All: 6.546 ± 0.524 $\chi^2/\text{NDF}: 946.0/68$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 273.276 $\pm$ 2.205 χ^2/NDF : 5101.5/16

Left Out: 250.268 $\pm$ 1.341 χ^2/NDF :1572.4/16

Right Out: 255.985 $\pm$ 2.080 χ^2/NDF : 6438.4/18

Left In: 262.459 $\pm$ 1.376 χ^2/NDF :944.5/15

Left: 256.209 $\pm$ 0.960 χ^2/NDF : 2557.2/32

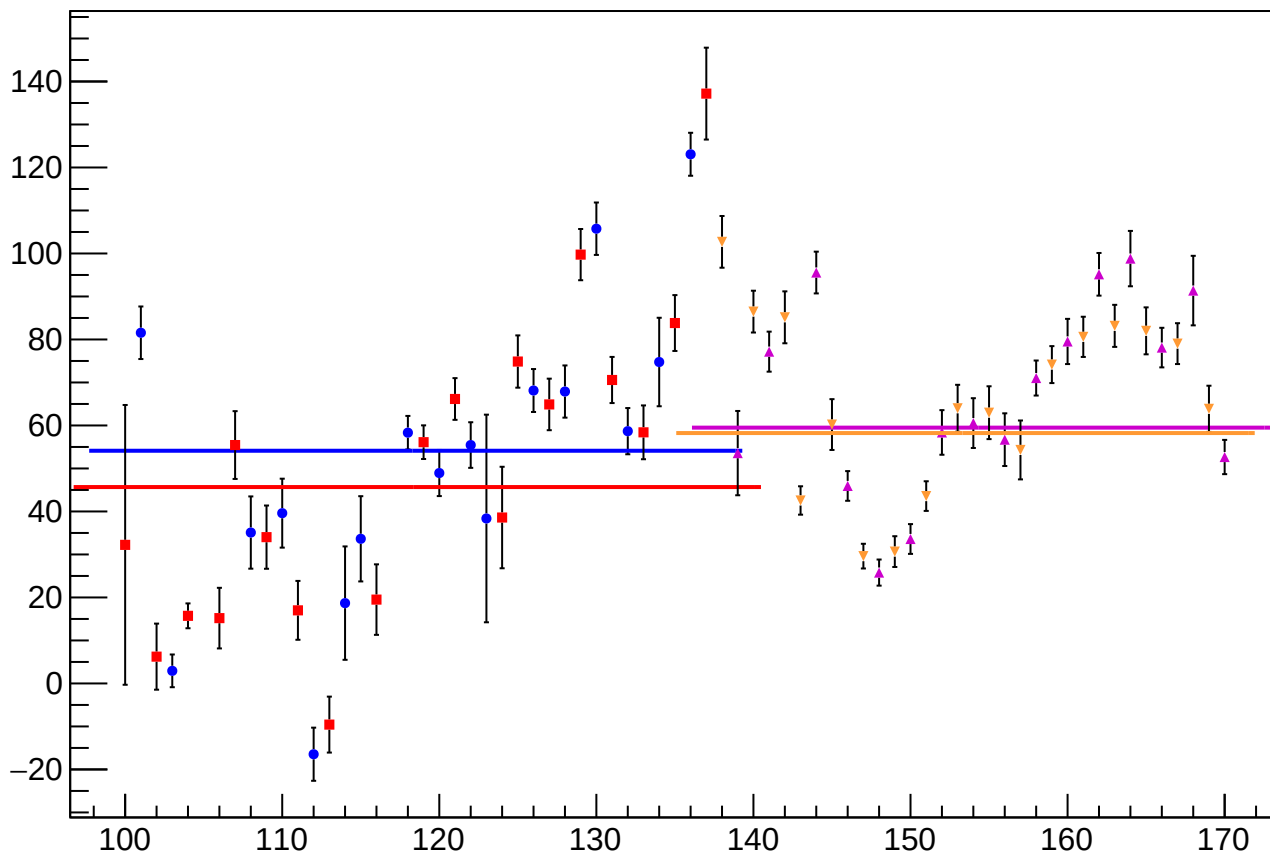
Right: 264.127 $\pm$ 1.513 χ^2/NDF : 11572.5/35

In: 265.491 $\pm$ 1.167 χ^2/NDF :6063.4/32

Out: 251.948 $\pm$ 1.127 χ^2/NDF :8016.2/35

All: 258.484 $\pm$ 0.811 χ^2/NDF : 14149.2/68

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 54.119 $\pm$ 1.438 χ^2 /NDF: 633.9/16

Left Out: 58.234 $\pm$ 1.093 χ^2 /NDF:411.6/16

Right Out: 45.675 $\pm$ 1.357 χ^2 /NDF: 531.0/18

Left In: 59.494 $\pm$ 1.151 χ^2 /NDF:411.2/15

Left: 58.832 $\pm$ 0.793 χ^2 /NDF: 823.5/32

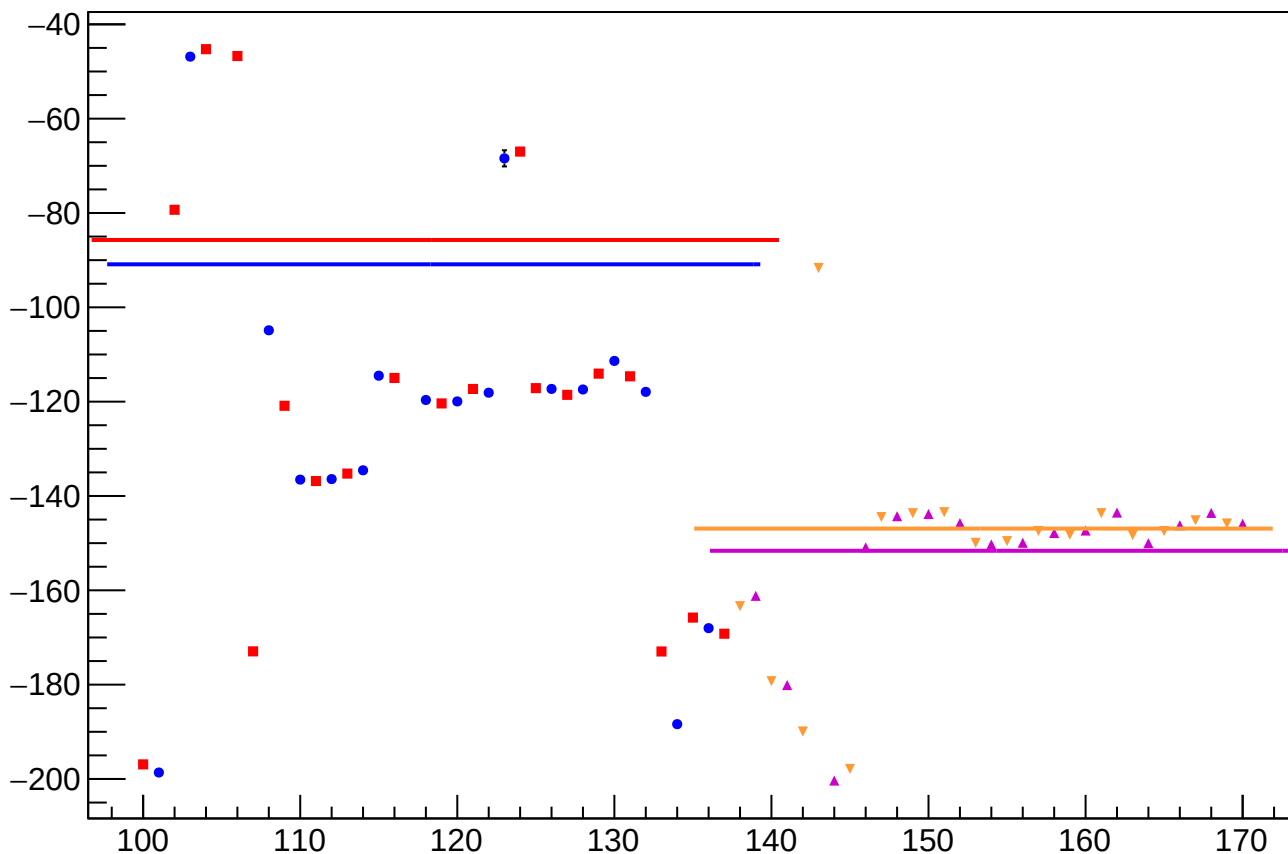
Right: 49.654 $\pm$ 0.987 χ^2 /NDF: 1183.2/35

In: 57.396 $\pm$ 0.898 χ^2 /NDF:1053.7/32

Out: 53.292 $\pm$ 0.851 χ^2 /NDF:994.6/35

All: 55.233 $\pm$ 0.618 χ^2 /NDF: 2059.2/68

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -90.881 ± 0.068 $\chi^2/\text{NDF}: 533423.8/16$

Left Out: -146.911 ± 0.054 $\chi^2/\text{NDF}: 187171.6/16$

Right Out: -85.722 ± 0.065 $\chi^2/\text{NDF}: 494183.1/18$

Left In: -151.618 ± 0.055 $\chi^2/\text{NDF}: 58214.8/15$

Left: -149.225 ± 0.038 $\chi^2/\text{NDF}: 249136.0/32$

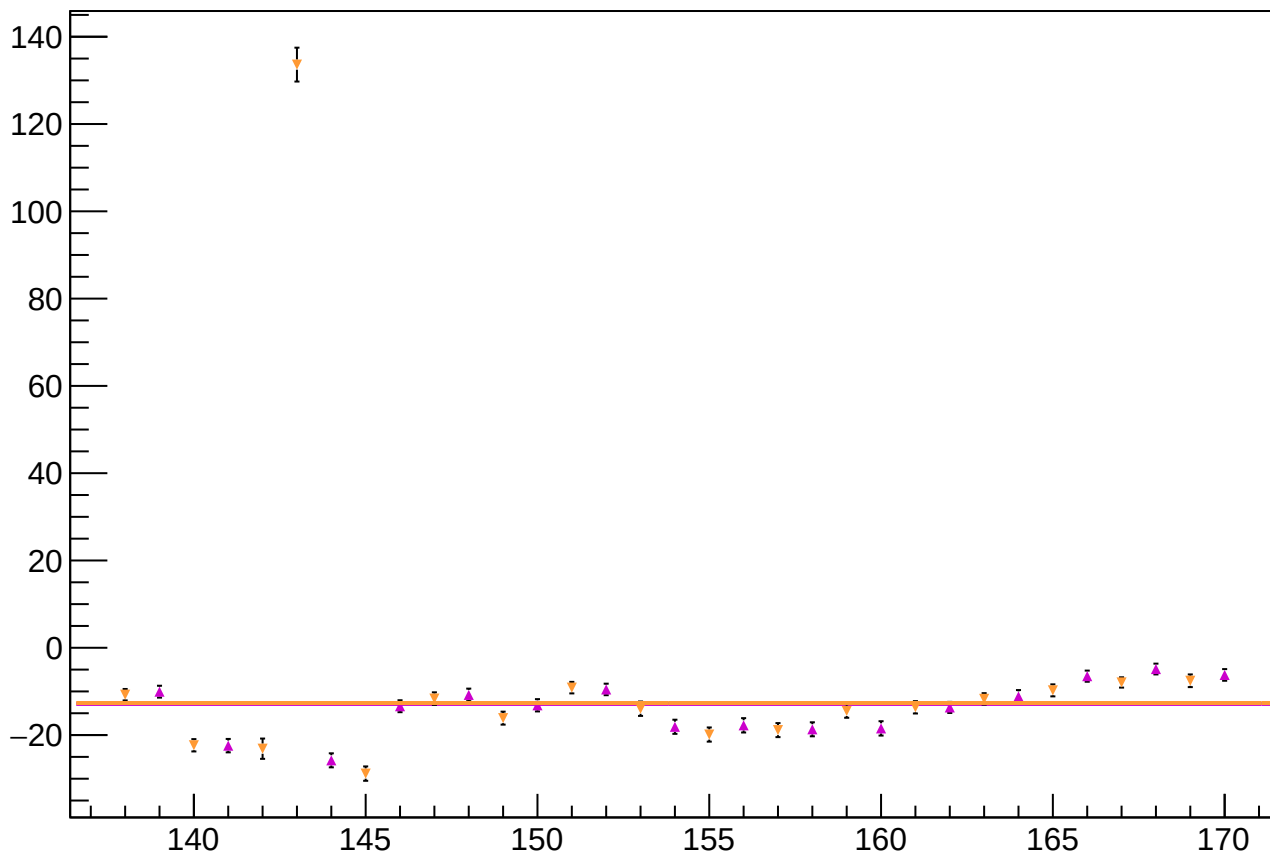
Right: -88.197 ± 0.047 $\chi^2/\text{NDF}: 1030623.7/35$

In: -127.593 ± 0.043 $\chi^2/\text{NDF}: 1077369.3/32$

Out: -122.008 ± 0.042 $\chi^2/\text{NDF}: 1205803.8/35$

All: -124.727 ± 0.030 $\chi^2/\text{NDF}: 2291988.1/68$

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -12.653+/-0.364 χ^2/NDF :1669.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -12.865+/-0.356 χ^2/NDF :253.3/15

Left: -12.761+/-0.255 χ^2/NDF : 1923.0/32

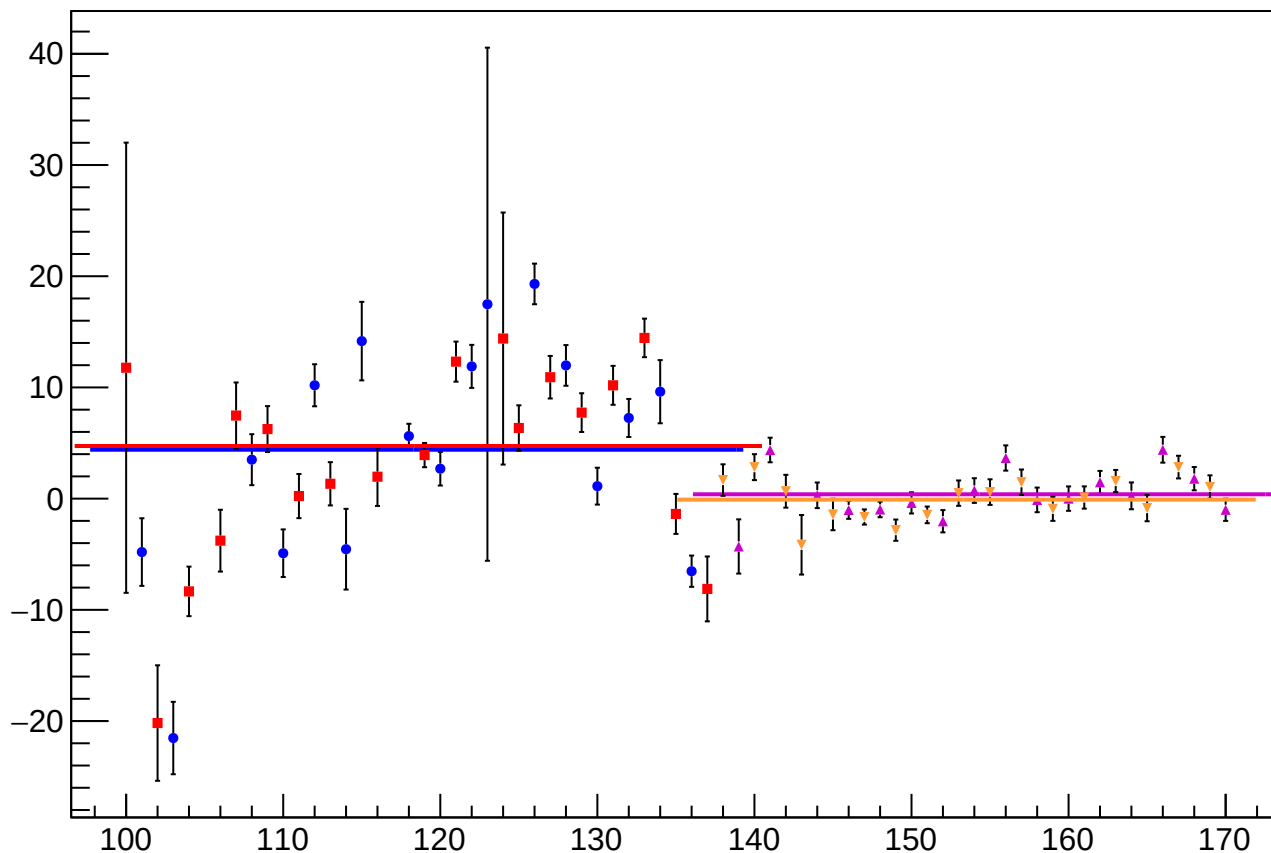
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -12.865+/-0.356 χ^2/NDF :253.3/15

Out: -12.653+/-0.364 χ^2/NDF :1669.6/16

All: -12.761+/-0.255 χ^2/NDF : 1923.0/32

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.399 ± 0.471 $\chi^2/\text{NDF}: 286.8/16$

Left Out: -0.090 ± 0.257 $\chi^2/\text{NDF}: 43.9/16$

Right Out: 4.732 ± 0.473 $\chi^2/\text{NDF}: 182.9/18$

Left In: 0.391 ± 0.258 $\chi^2/\text{NDF}: 55.7/15$

Left: 0.150 ± 0.182 $\chi^2/\text{NDF}: 101.3/32$

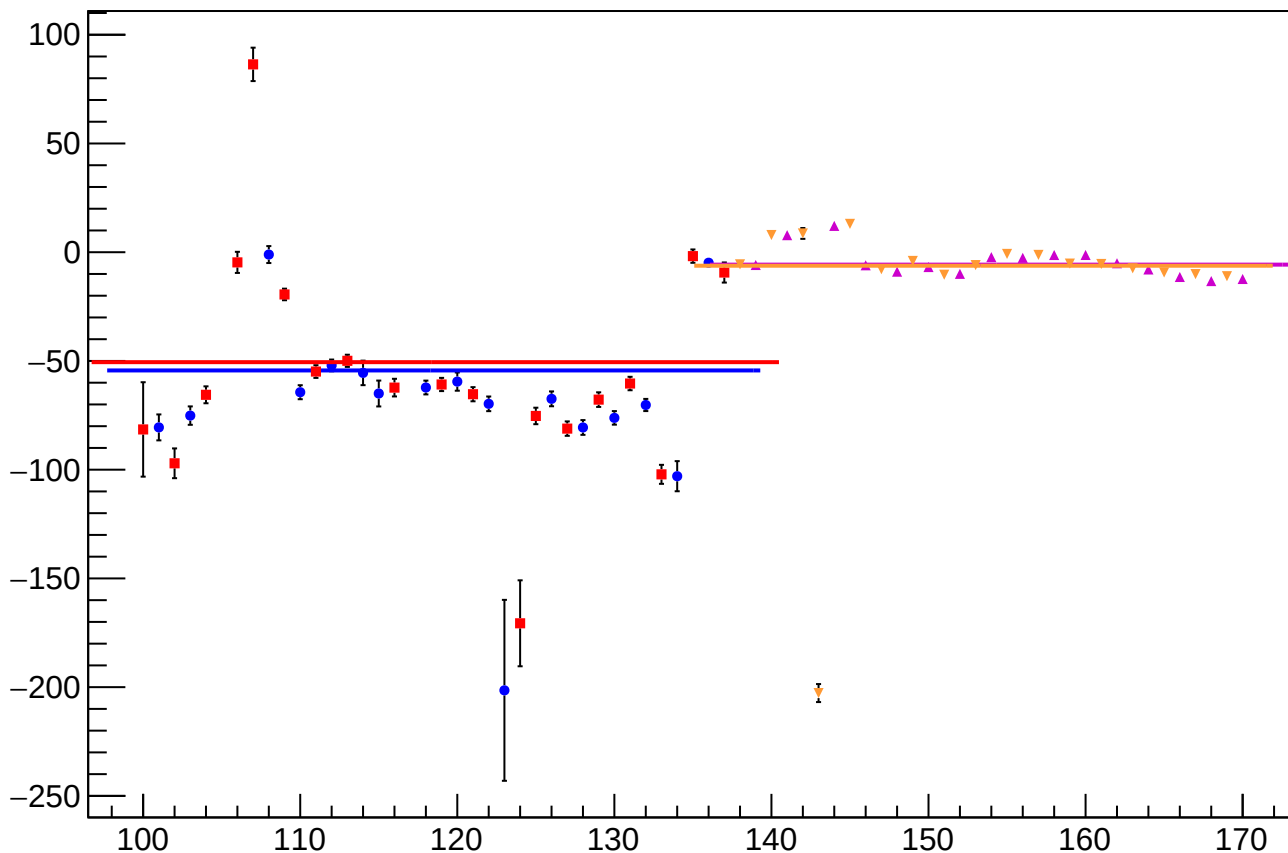
Right: 4.565 ± 0.334 $\chi^2/\text{NDF}: 470.0/35$

In: 1.317 ± 0.226 $\chi^2/\text{NDF}: 398.2/32$

Out: 1.011 ± 0.226 $\chi^2/\text{NDF}: 307.0/35$

All: 1.163 ± 0.160 $\chi^2/\text{NDF}: 706.0/68$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -54.365 ± 0.868 $\chi^2/\text{NDF}: 1013.5/16$

Left Out: -6.208 ± 0.357 $\chi^2/\text{NDF}: 2567.0/16$

Right Out: -50.554 ± 0.858 $\chi^2/\text{NDF}: 1321.3/18$

Left In: -5.710 ± 0.349 $\chi^2/\text{NDF}: 303.0/15$

Left: -5.953 ± 0.249 $\chi^2/\text{NDF}: 2871.0/32$

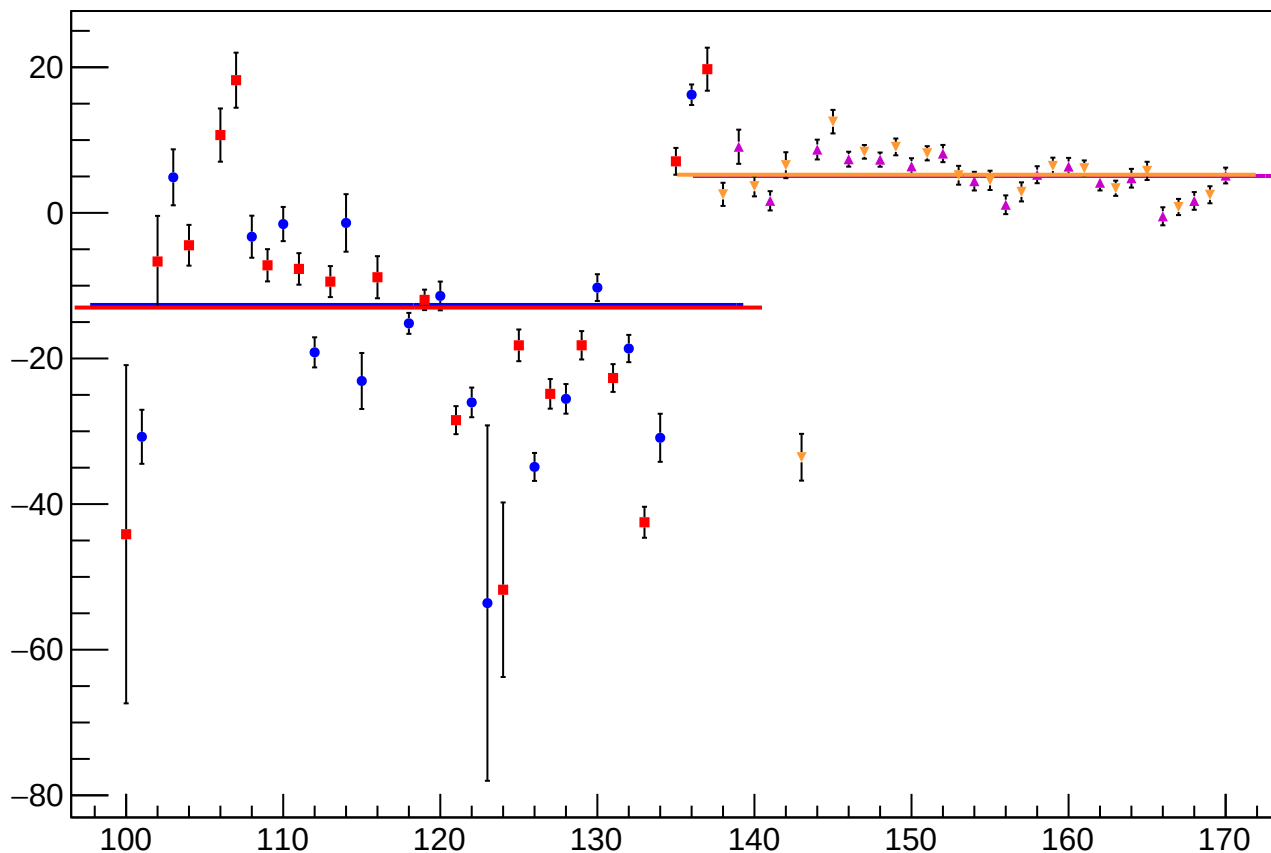
Right: -52.436 ± 0.610 $\chi^2/\text{NDF}: 2344.5/35$

In: -12.471 ± 0.324 $\chi^2/\text{NDF}: 4020.5/32$

Out: -12.754 ± 0.329 $\chi^2/\text{NDF}: 6167.9/35$

All: -12.610 ± 0.231 $\chi^2/\text{NDF}: 10188.8/68$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -12.648 ± 0.536 χ^2/NDF : 788.4/16

Left Out: 5.241 ± 0.300 χ^2/NDF : 232.5/16

Right Out: -13.005 ± 0.538 χ^2/NDF : 721.4/18

Left In: 5.065 ± 0.299 χ^2/NDF : 74.9/15

Left: 5.153 ± 0.212 χ^2/NDF : 307.6/32

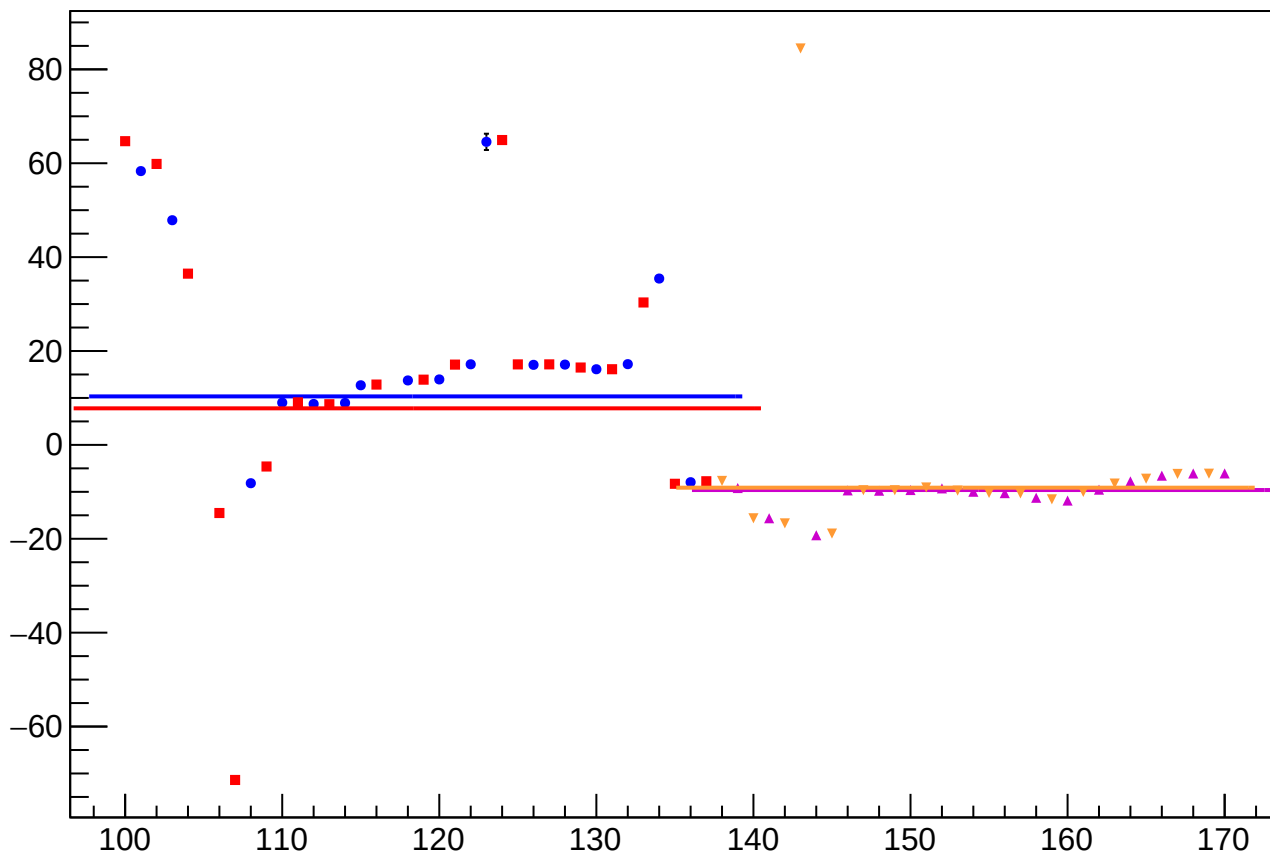
Right: -12.826 ± 0.380 χ^2/NDF : 1510.1/35

In: 0.855 ± 0.261 χ^2/NDF : 1695.0/32

Out: 0.916 ± 0.262 χ^2/NDF : 1833.0/35

All: 0.885 ± 0.185 χ^2/NDF : 3528.0/68

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 10.330+/-0.031 χ^2/NDF : 380857.1/16

Left Out: -9.119+/-0.014 χ^2/NDF :366764.8/16

Right Out: 7.786+/-0.031 χ^2/NDF : 544119.7/18

Left In: -9.617+/-0.014 χ^2/NDF :42263.1/15

Left: -9.374+/-0.010 χ^2/NDF : 409679.3/32

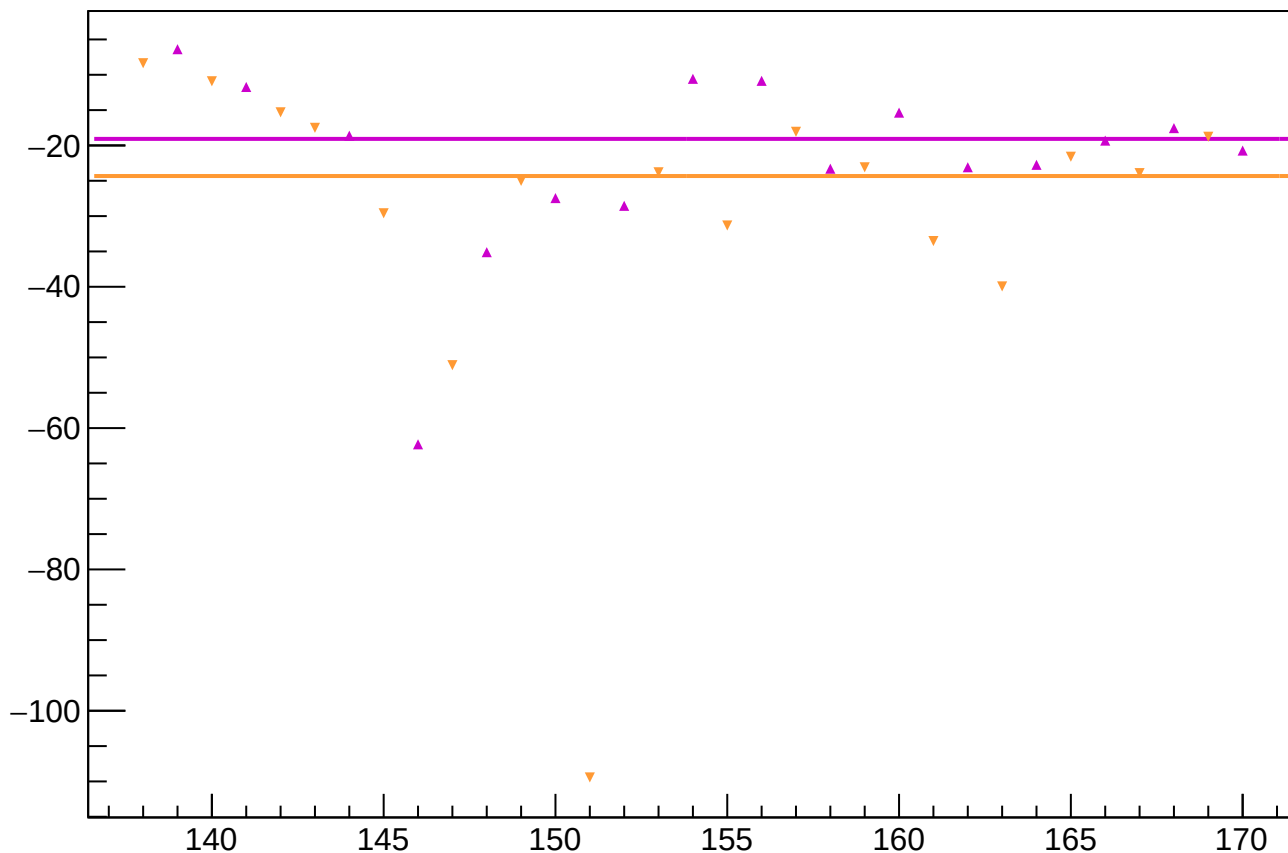
Right: 9.084+/-0.022 χ^2/NDF : 928345.1/35

In: -6.324+/-0.012 χ^2/NDF :776148.4/32

Out: -6.311+/-0.013 χ^2/NDF :1154058.8/35

All: -6.317+/-0.009 χ^2/NDF : 1930207.9/68

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000±/-0.000 χ^2/NDF : 0.0/0

Left Out: -24.328±/-0.058 χ^2/NDF :57758.4/16

Right Out: 0.000±/-0.000 χ^2/NDF : 0.0/0

Left In: -19.072±/-0.051 χ^2/NDF :37202.3/15

Left: -21.325±/-0.038 χ^2/NDF : 99583.9/32

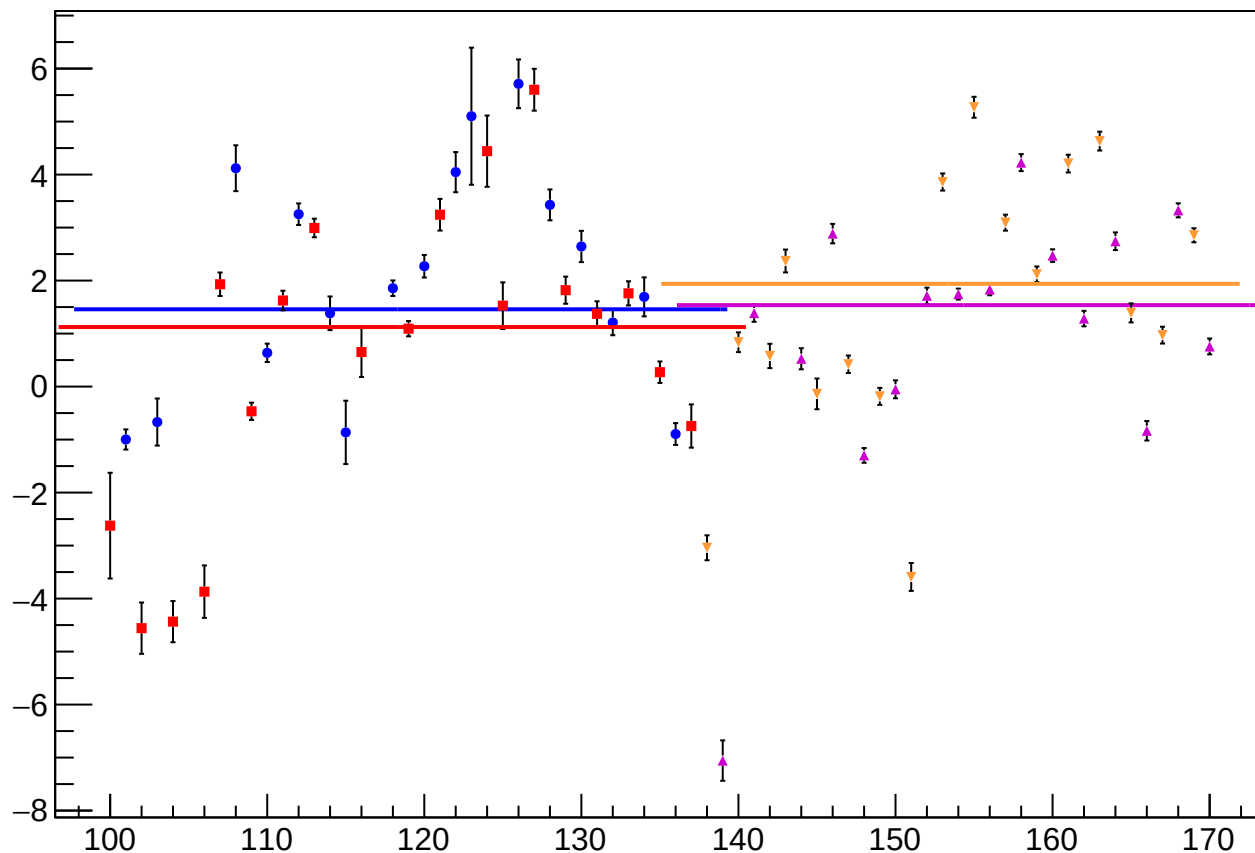
Right: 0.000±/-0.000 χ^2/NDF : 0.0/0

In: -19.072±/-0.051 χ^2/NDF :37202.3/15

Out: -24.328±/-0.058 χ^2/NDF :57758.4/16

All: -21.325±/-0.038 χ^2/NDF : 99583.9/32

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.458 $\pm$ 0.062 χ^2 /NDF: 698.2/16

Left Out: 1.939 $\pm$ 0.043 χ^2 /NDF:2267.8/16

Right Out: 1.123 $\pm$ 0.058 χ^2 /NDF: 947.4/18

Left In: 1.536 $\pm$ 0.037 χ^2 /NDF:1874.8/15

Left: 1.708 $\pm$ 0.028 χ^2 /NDF: 4192.9/32

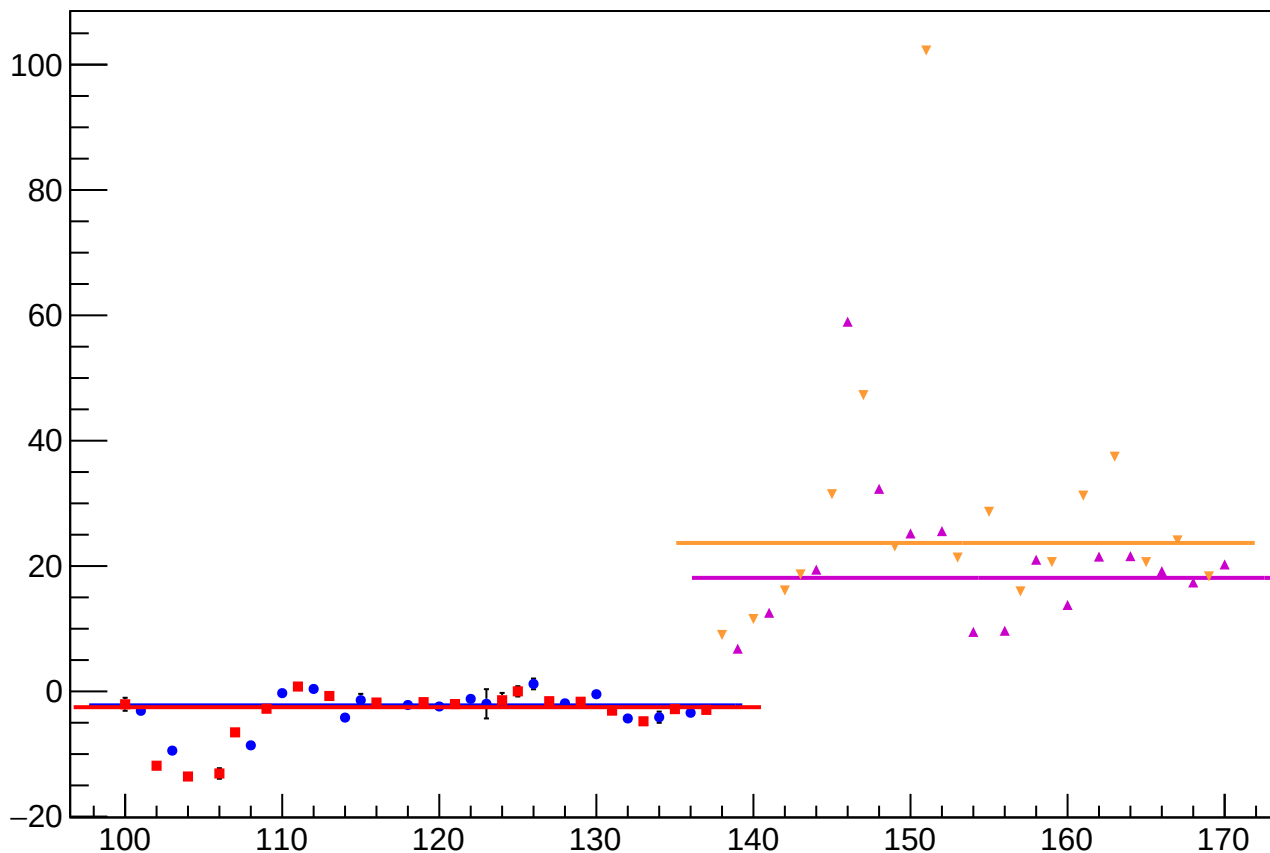
Right: 1.280 $\pm$ 0.042 χ^2 /NDF: 1661.2/35

In: 1.516 $\pm$ 0.032 χ^2 /NDF:2574.2/32

Out: 1.650 $\pm$ 0.035 χ^2 /NDF:3342.5/35

All: 1.577 $\pm$ 0.023 χ^2 /NDF: 5924.9/68

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.228 ± 0.111 χ^2/NDF : 460.4/16

Left Out: 23.686 ± 0.058 χ^2/NDF : 51756.1/16

Right Out: -2.520 ± 0.099 χ^2/NDF : 904.0/18

Left In: 18.113 ± 0.049 χ^2/NDF : 35287.8/15

Left: 20.463 ± 0.037 χ^2/NDF : 92469.3/32

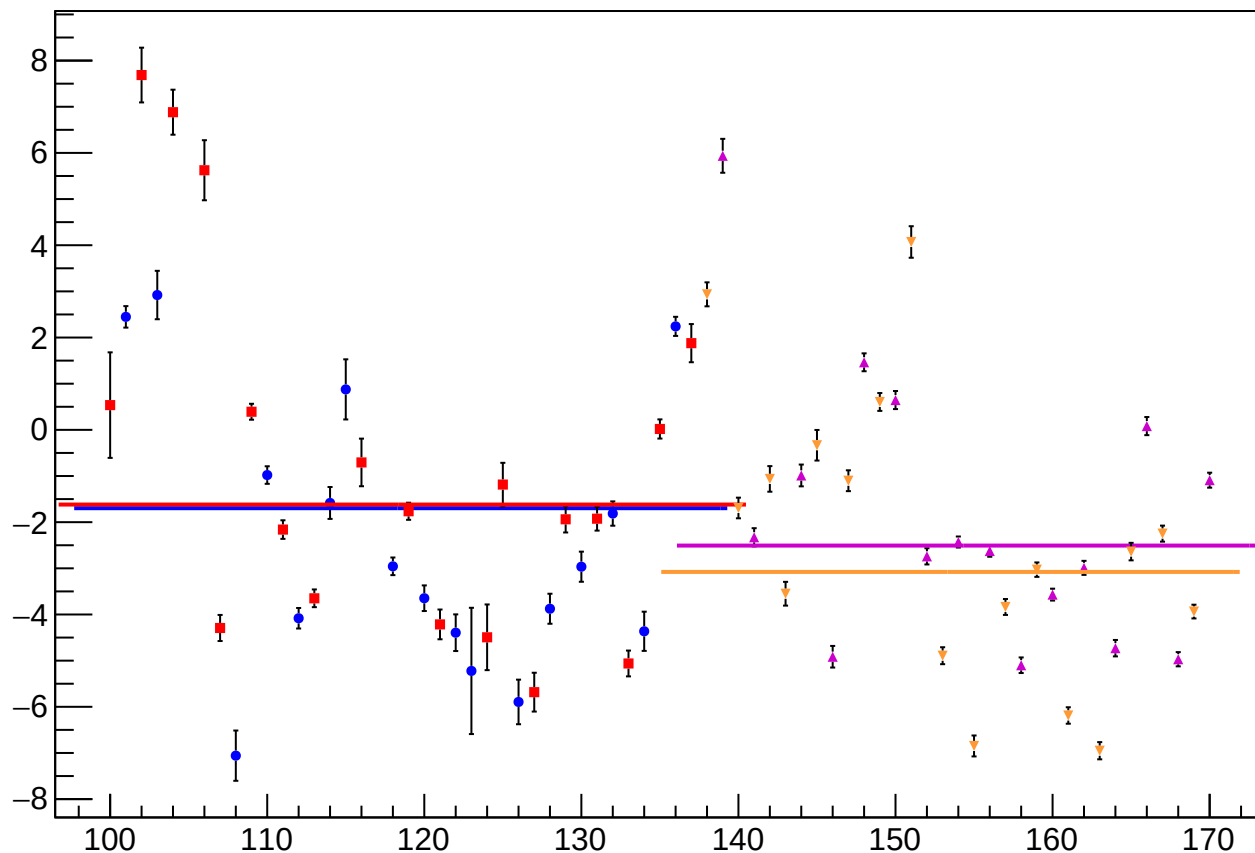
Right: -2.391 ± 0.074 χ^2/NDF : 1368.3/35

In: 14.795 ± 0.045 χ^2/NDF : 63718.7/32

Out: 17.068 ± 0.050 χ^2/NDF : 105057.5/35

All: 15.817 ± 0.033 χ^2/NDF : 169925.9/68

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.697 ± 0.071 χ^2/NDF : 1319.4/16

Left Out: -3.078 ± 0.049 χ^2/NDF : 2767.8/16

Right Out: -1.618 ± 0.066 χ^2/NDF : 1489.2/18

Left In: -2.507 ± 0.042 χ^2/NDF : 2333.5/15

Left: -2.749 ± 0.032 χ^2/NDF : 5179.5/32

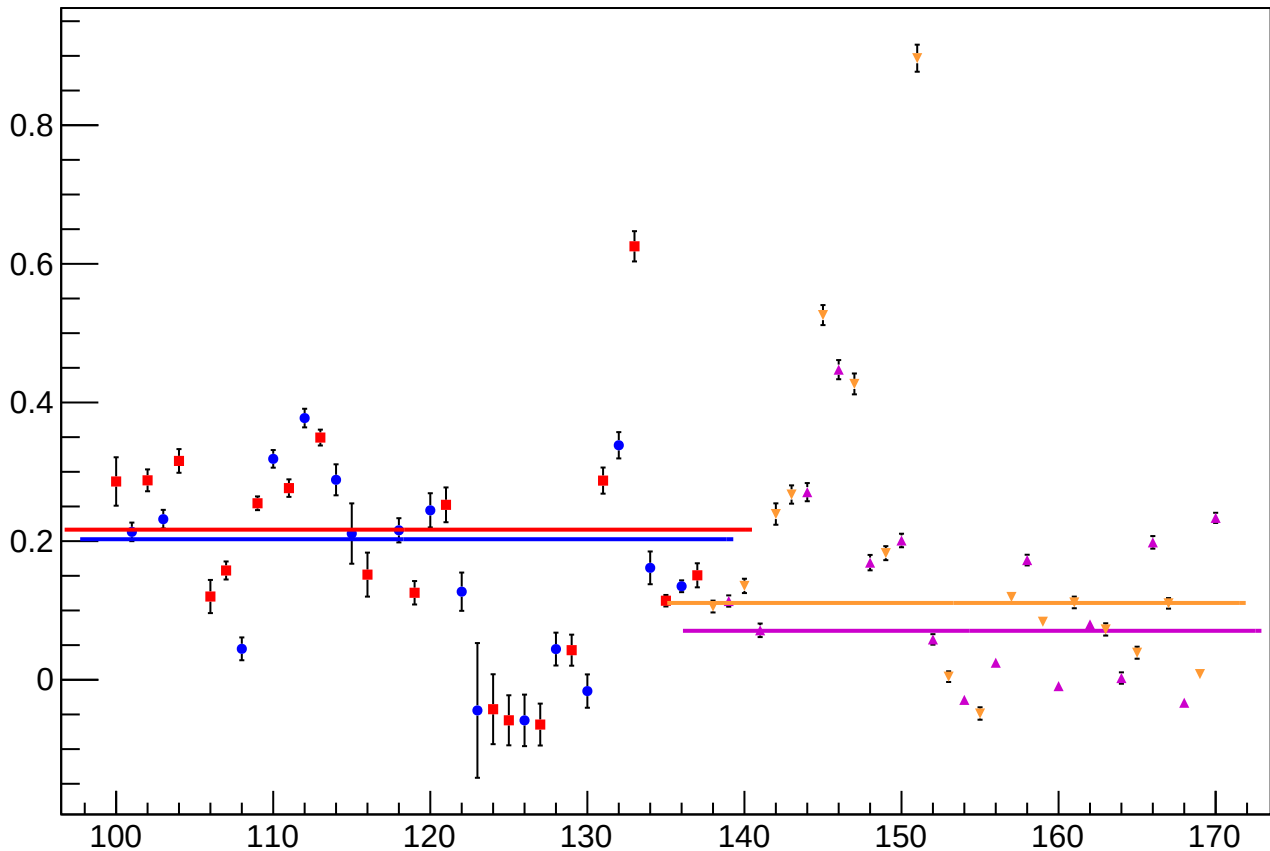
Right: -1.655 ± 0.048 χ^2/NDF : 2809.3/35

In: -2.297 ± 0.036 χ^2/NDF : 3749.0/32

Out: -2.556 ± 0.039 χ^2/NDF : 4574.4/35

All: -2.416 ± 0.027 χ^2/NDF : 8347.0/68

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.203 $\pm$ 0.004 χ^2 /NDF: 676.5/16

Left Out: 0.111 $\pm$ 0.002 χ^2 /NDF:3989.3/16

Right Out: 0.217 $\pm$ 0.004 χ^2 /NDF: 1064.4/18

Left In: 0.071 $\pm$ 0.002 χ^2 /NDF:3178.7/15

Left: 0.087 $\pm$ 0.001 χ^2 /NDF: 7363.9/32

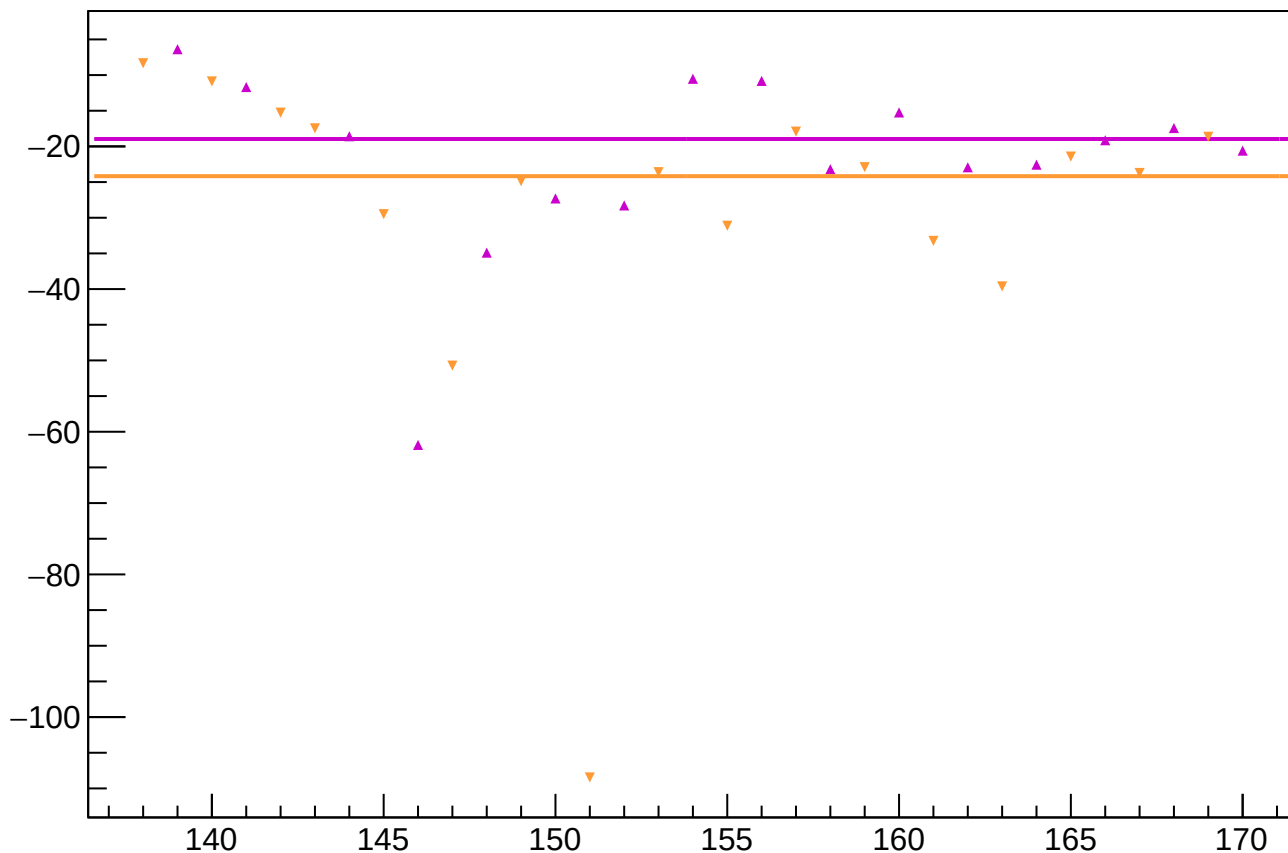
Right: 0.210 $\pm$ 0.003 χ^2 /NDF: 1747.1/35

In: 0.092 $\pm$ 0.002 χ^2 /NDF:4701.7/32

Out: 0.139 $\pm$ 0.002 χ^2 /NDF:5656.2/35

All: 0.113 $\pm$ 0.001 χ^2 /NDF: 10692.6/68

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -24.174+/-0.058 χ^2/NDF :57578.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -18.960+/-0.050 χ^2/NDF :37113.5/15

Left: -21.195+/-0.038 χ^2/NDF : 99300.9/32

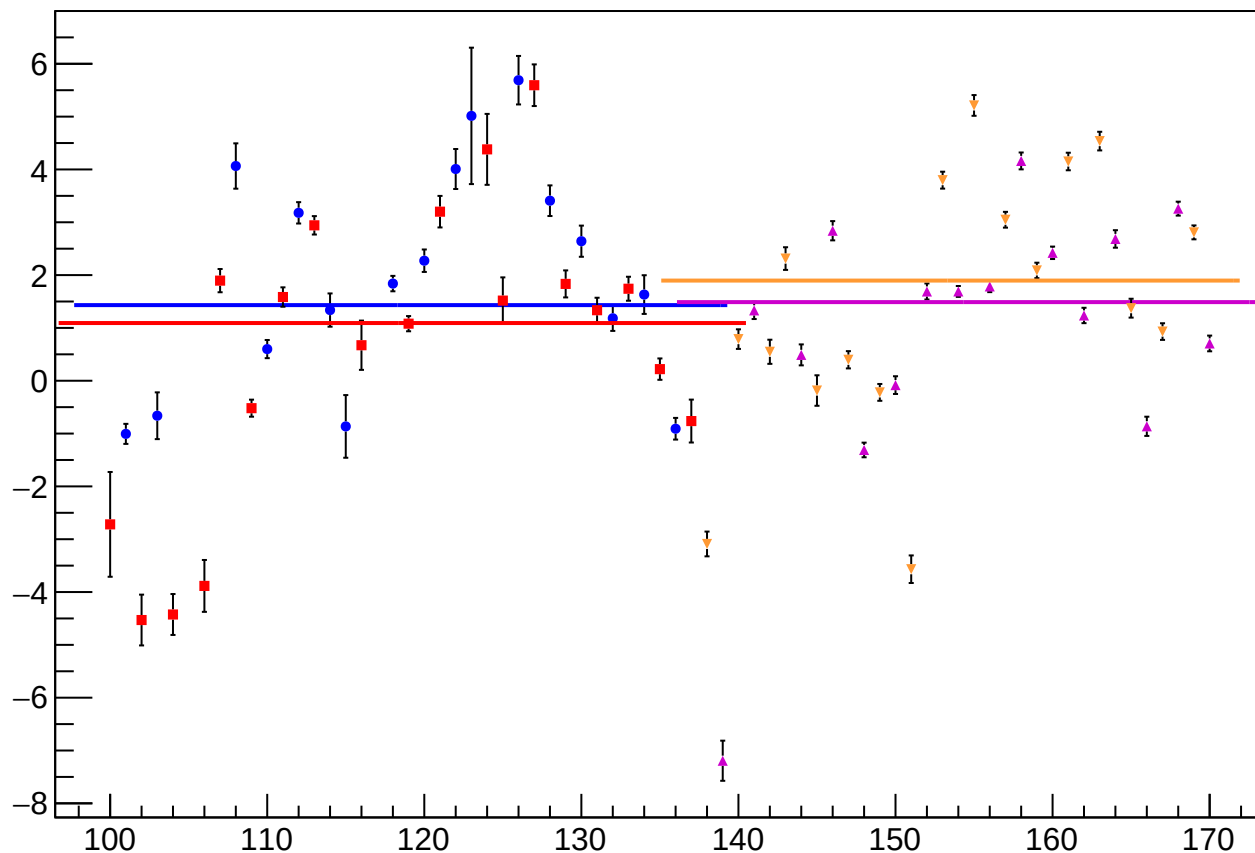
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -18.960+/-0.050 χ^2/NDF :37113.5/15

Out: -24.174+/-0.058 χ^2/NDF :57578.6/16

All: -21.195+/-0.038 χ^2/NDF : 99300.9/32

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.432 ± 0.062 χ^2/NDF : 696.6/16

Left Out: 1.896 ± 0.043 χ^2/NDF : 2267.2/16

Right Out: 1.092 ± 0.058 χ^2/NDF : 953.2/18

Left In: 1.489 ± 0.037 χ^2/NDF : 1884.5/15

Left: 1.662 ± 0.028 χ^2/NDF : 4203.9/32

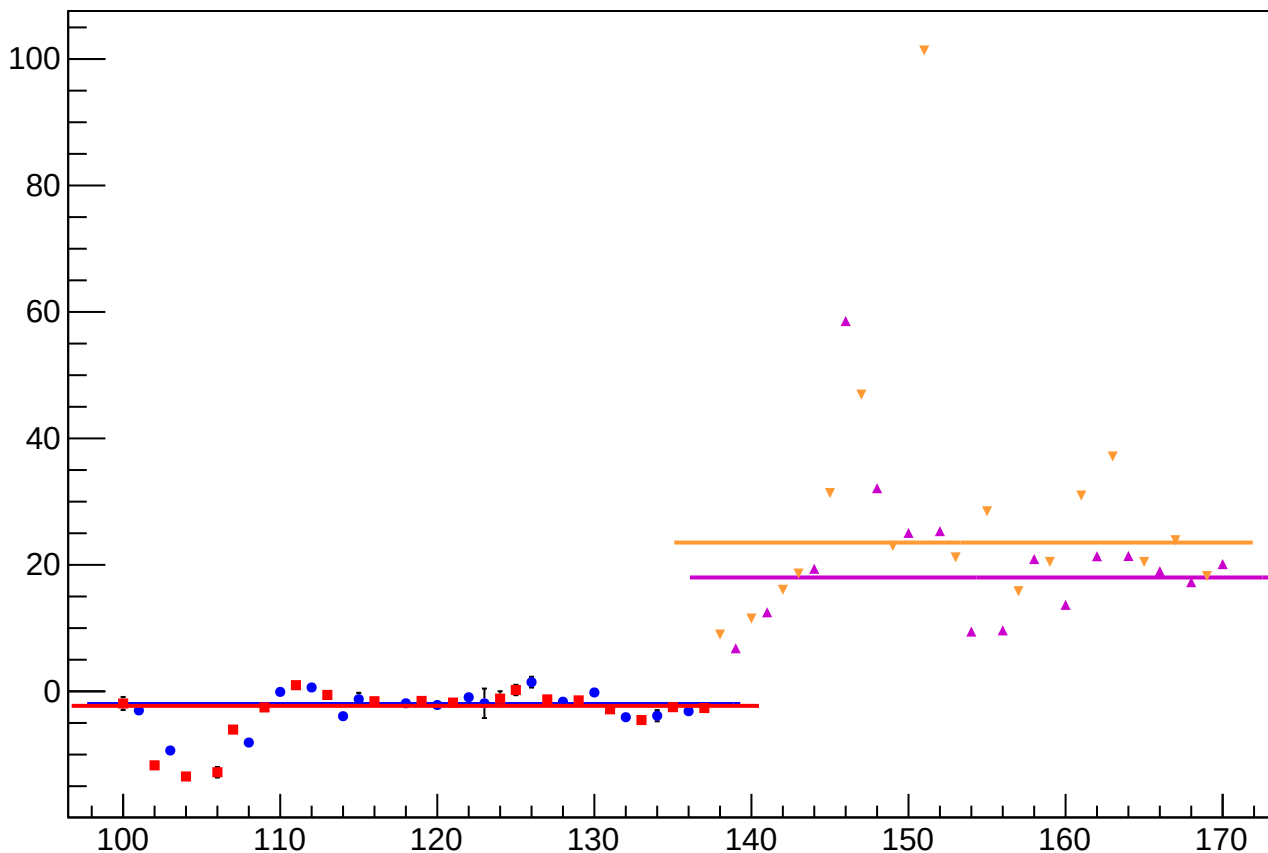
Right: 1.251 ± 0.042 χ^2/NDF : 1665.8/35

In: 1.474 ± 0.032 χ^2/NDF : 2581.7/32

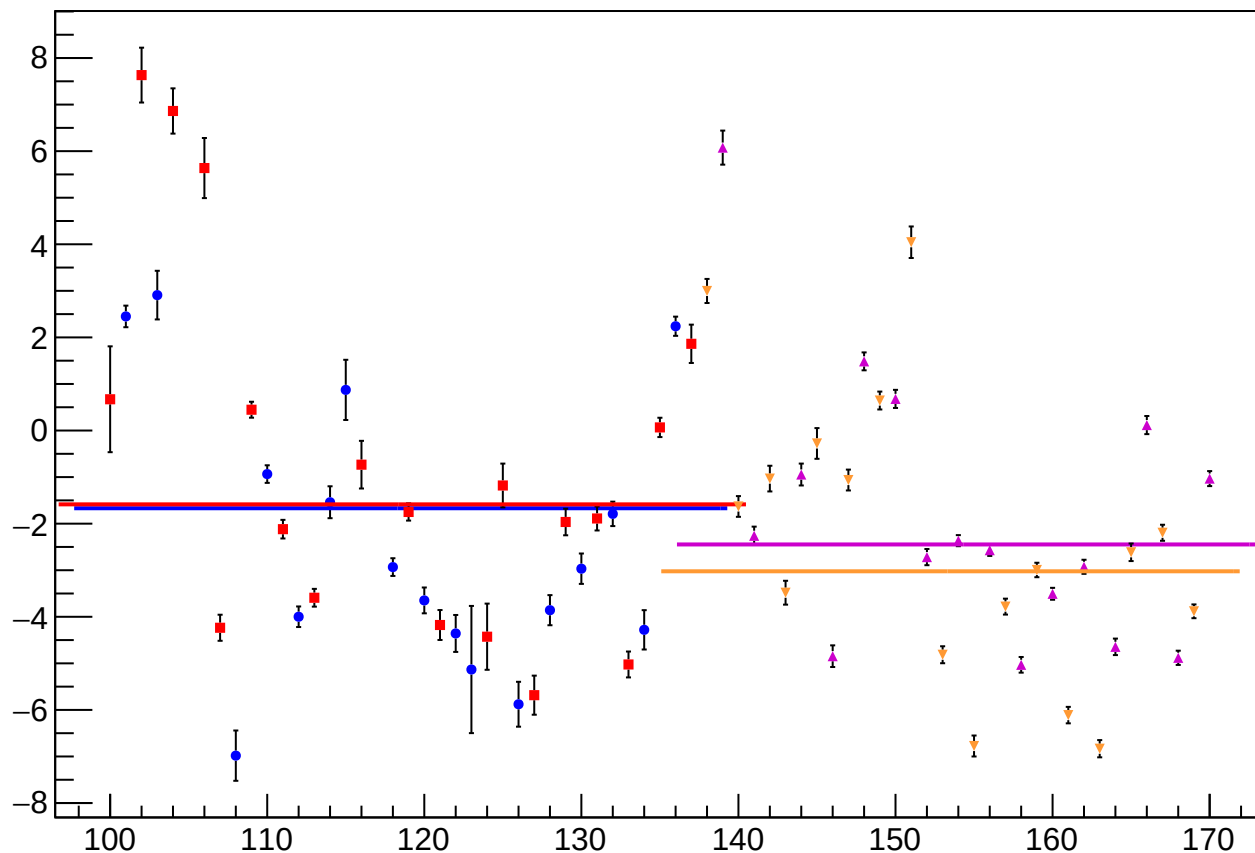
Out: 1.612 ± 0.034 χ^2/NDF : 3345.2/35

All: 1.537 ± 0.023 χ^2/NDF : 5935.7/68

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.669 ± 0.071 χ^2/NDF : 1314.9/16

Left Out: -3.023 ± 0.049 χ^2/NDF : 2766.0/16

Right Out: -1.585 ± 0.065 χ^2/NDF : 1494.7/18

Left In: -2.447 ± 0.042 χ^2/NDF : 2344.1/15

Left: -2.691 ± 0.032 χ^2/NDF : 5190.9/32

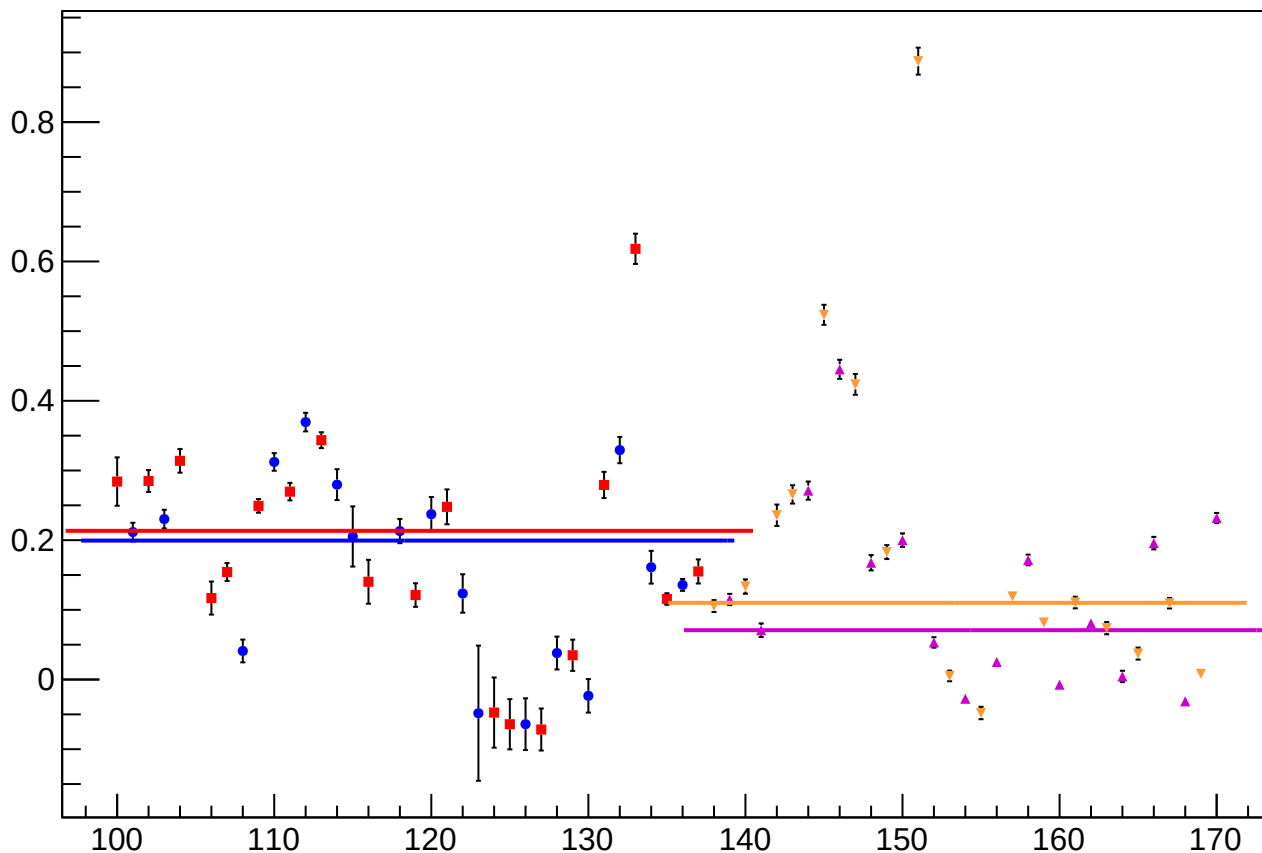
Right: -1.624 ± 0.048 χ^2/NDF : 2810.4/35

In: -2.246 ± 0.036 χ^2/NDF : 3748.5/32

Out: -2.511 ± 0.039 χ^2/NDF : 4572.0/35

All: -2.367 ± 0.026 χ^2/NDF : 8345.4/68

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.199 $\pm$ 0.004 χ^2 /NDF: 662.1/16

Left Out: 0.110 $\pm$ 0.002 χ^2 /NDF:3984.3/16

Right Out: 0.213 $\pm$ 0.004 χ^2 /NDF: 1048.2/18

Left In: 0.071 $\pm$ 0.002 χ^2 /NDF:3155.4/15

Left: 0.087 $\pm$ 0.001 χ^2 /NDF: 7329.2/32

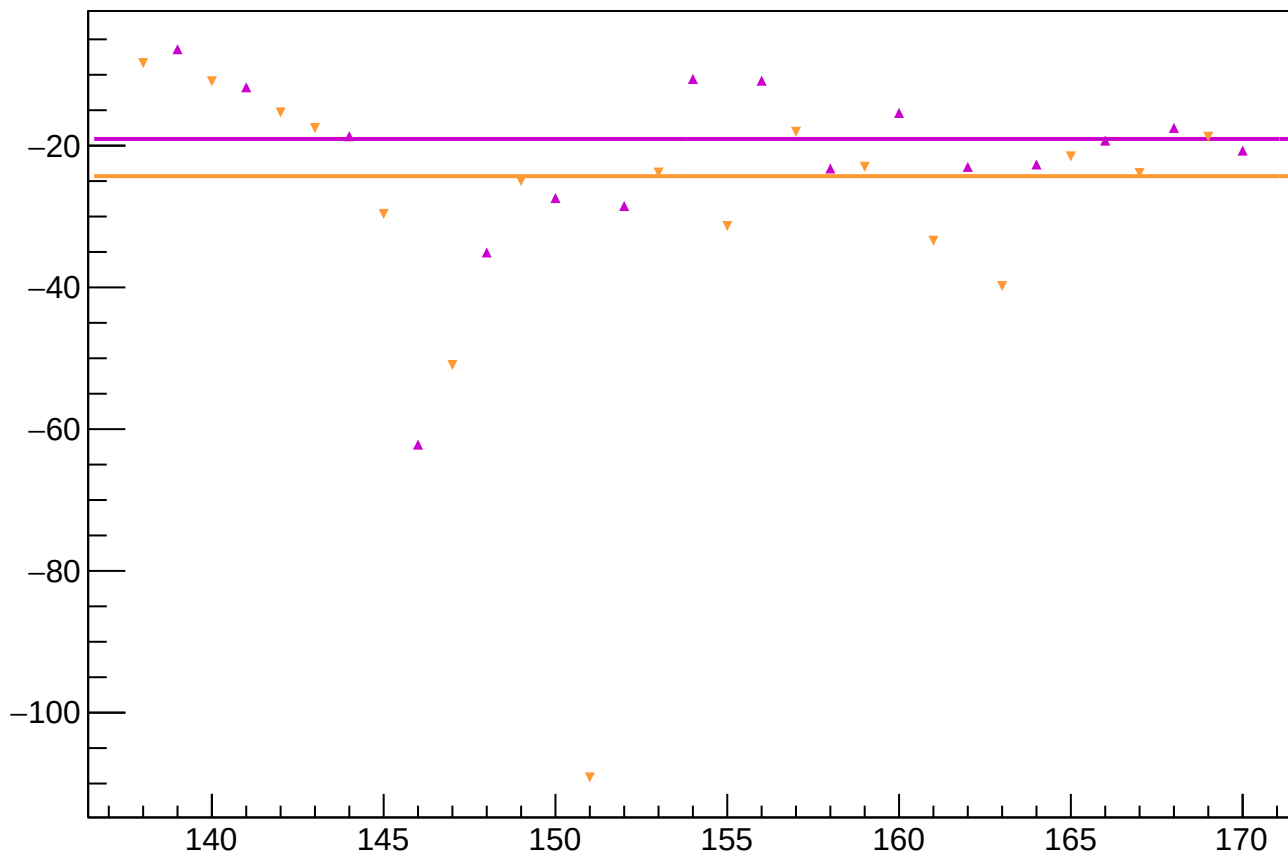
Right: 0.207 $\pm$ 0.003 χ^2 /NDF: 1716.7/35

In: 0.092 $\pm$ 0.002 χ^2 /NDF:4628.2/32

Out: 0.137 $\pm$ 0.002 χ^2 /NDF:5614.7/35

All: 0.112 $\pm$ 0.001 χ^2 /NDF: 10567.4/68

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -24.302+/-0.058 χ^2/NDF :57707.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -19.051+/-0.050 χ^2/NDF :37182.3/15

Left: -21.301+/-0.038 χ^2/NDF : 99525.8/32

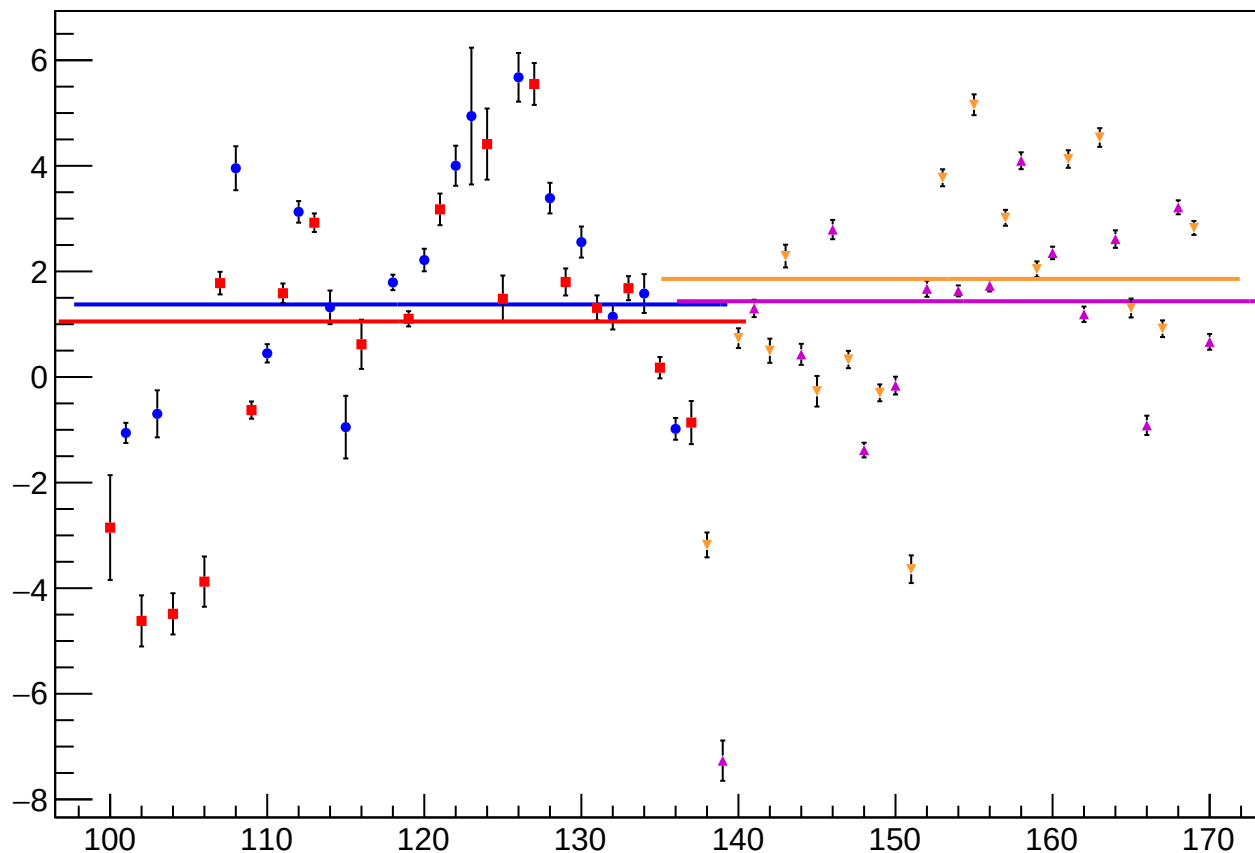
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -19.051+/-0.050 χ^2/NDF :37182.3/15

Out: -24.302+/-0.058 χ^2/NDF :57707.9/16

All: -21.301+/-0.038 χ^2/NDF : 99525.8/32

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.375 ± 0.062 χ^2/NDF : 702.4/16

Left Out: 1.858 ± 0.043 χ^2/NDF : 2289.9/16

Right Out: 1.052 ± 0.058 χ^2/NDF : 964.0/18

Left In: 1.435 ± 0.037 χ^2/NDF : 1876.3/15

Left: 1.615 ± 0.028 χ^2/NDF : 4221.9/32

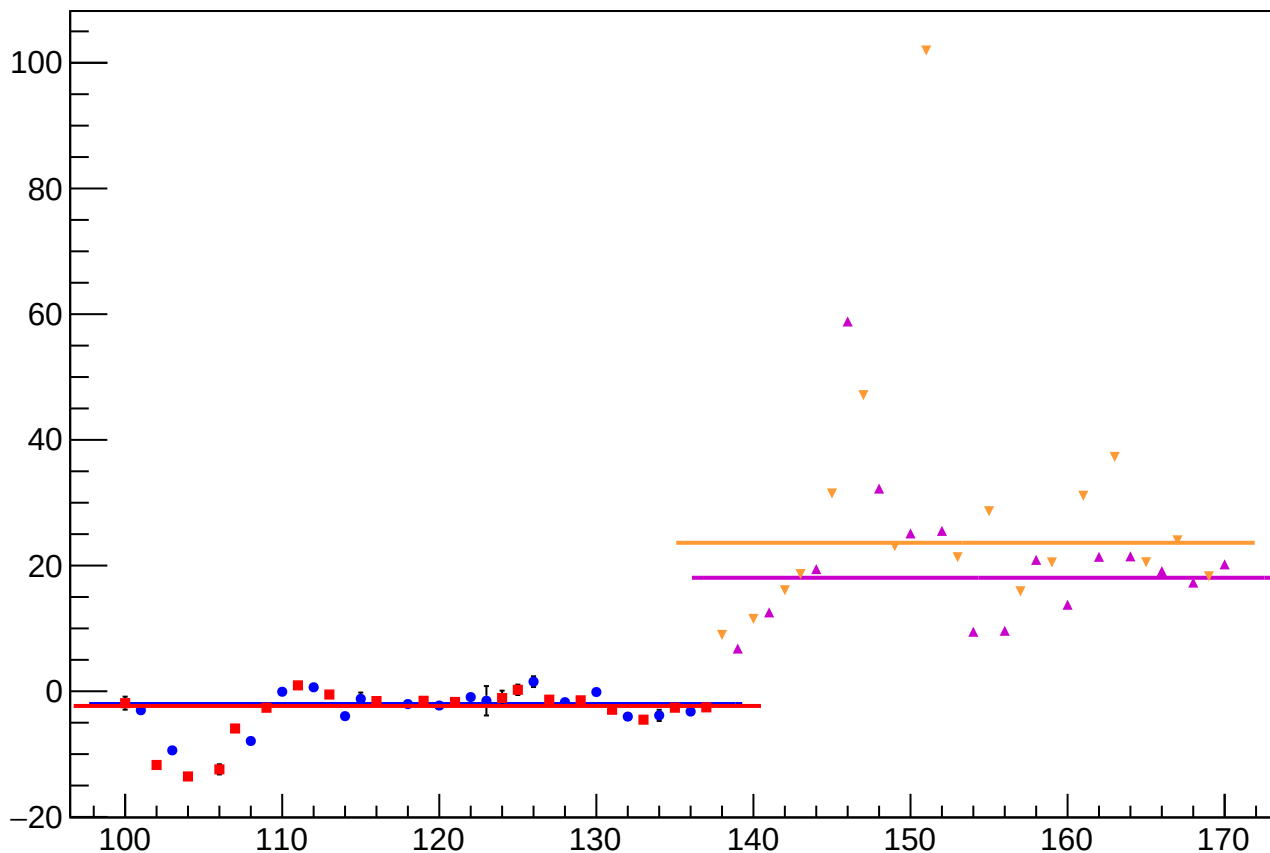
Right: 1.203 ± 0.042 χ^2/NDF : 1680.9/35

In: 1.419 ± 0.032 χ^2/NDF : 2579.5/32

Out: 1.573 ± 0.035 χ^2/NDF : 3378.6/35

All: 1.490 ± 0.023 χ^2/NDF : 5968.8/68

reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.031 ± 0.111 χ^2/NDF : 463.2/16

Left Out: 23.625 ± 0.057 χ^2/NDF : 51731.4/16

Right Out: -2.336 ± 0.099 χ^2/NDF : 902.0/18

Left In: 18.059 ± 0.049 χ^2/NDF : 35288.6/15

Left: 20.405 ± 0.037 χ^2/NDF : 92460.2/32

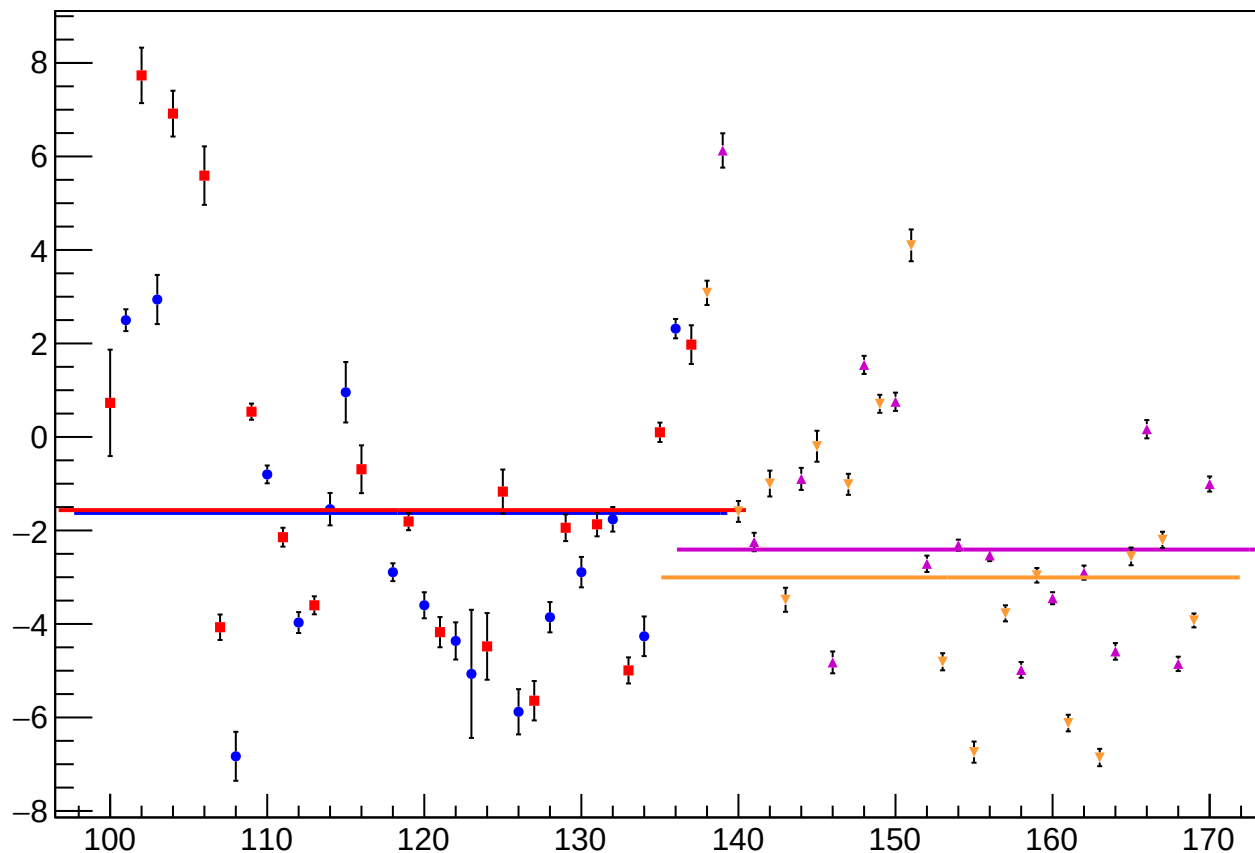
Right: -2.202 ± 0.074 χ^2/NDF : 1369.3/35

In: 14.798 ± 0.045 χ^2/NDF : 63042.2/32

Out: 17.089 ± 0.050 χ^2/NDF : 104148.3/35

All: 15.827 ± 0.033 χ^2/NDF : 168362.9/68

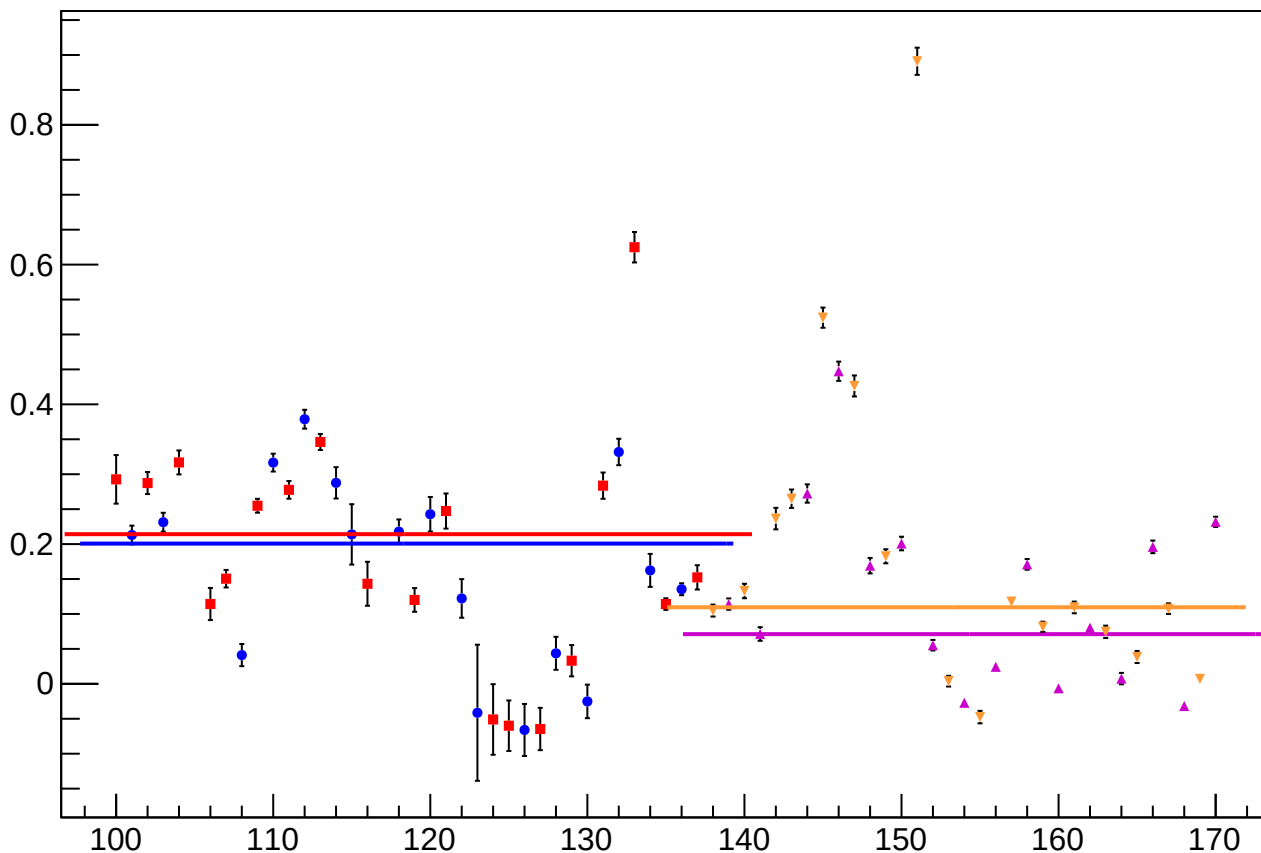
reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected



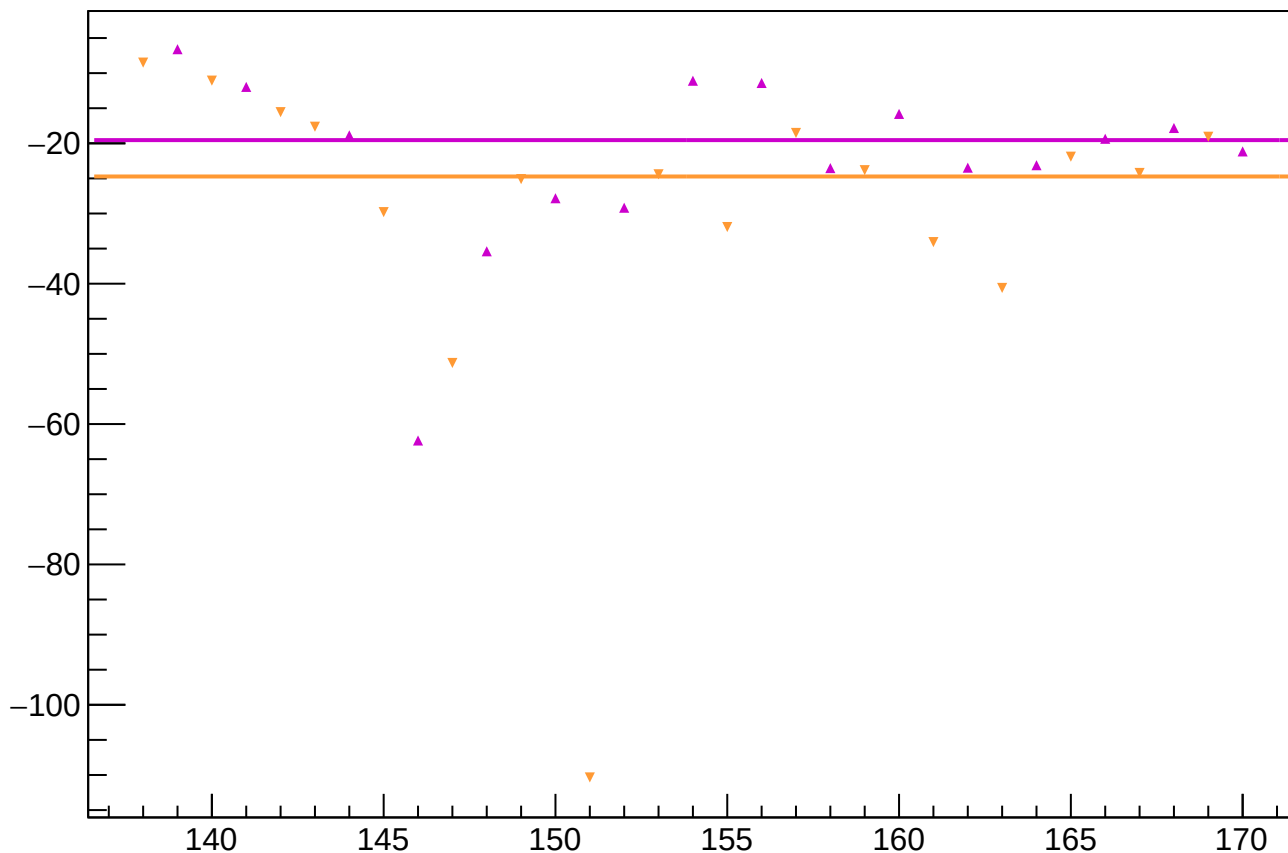
Right In: -1.625 ± 0.071 χ^2/NDF : 1320.8/16
 Left Out: -3.005 ± 0.049 χ^2/NDF : 2794.8/16
 Right Out: -1.565 ± 0.066 χ^2/NDF : 1505.8/18
 Left In: -2.409 ± 0.042 χ^2/NDF : 2335.4/15

Left: -2.662 ± 0.032 χ^2/NDF : 5216.0/32
 Right: -1.592 ± 0.048 χ^2/NDF : 2826.9/35
 In: -2.206 ± 0.036 χ^2/NDF : 3746.4/32
 Out: -2.491 ± 0.039 χ^2/NDF : 4610.7/35
 All: -2.337 ± 0.027 χ^2/NDF : 8385.6/68

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: -24.727+/-0.059 χ^2/NDF : 57615.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left In: -19.544+/-0.052 χ^2/NDF : 36042.0/15

Left: -21.778+/-0.039 χ^2/NDF : 97988.8/32

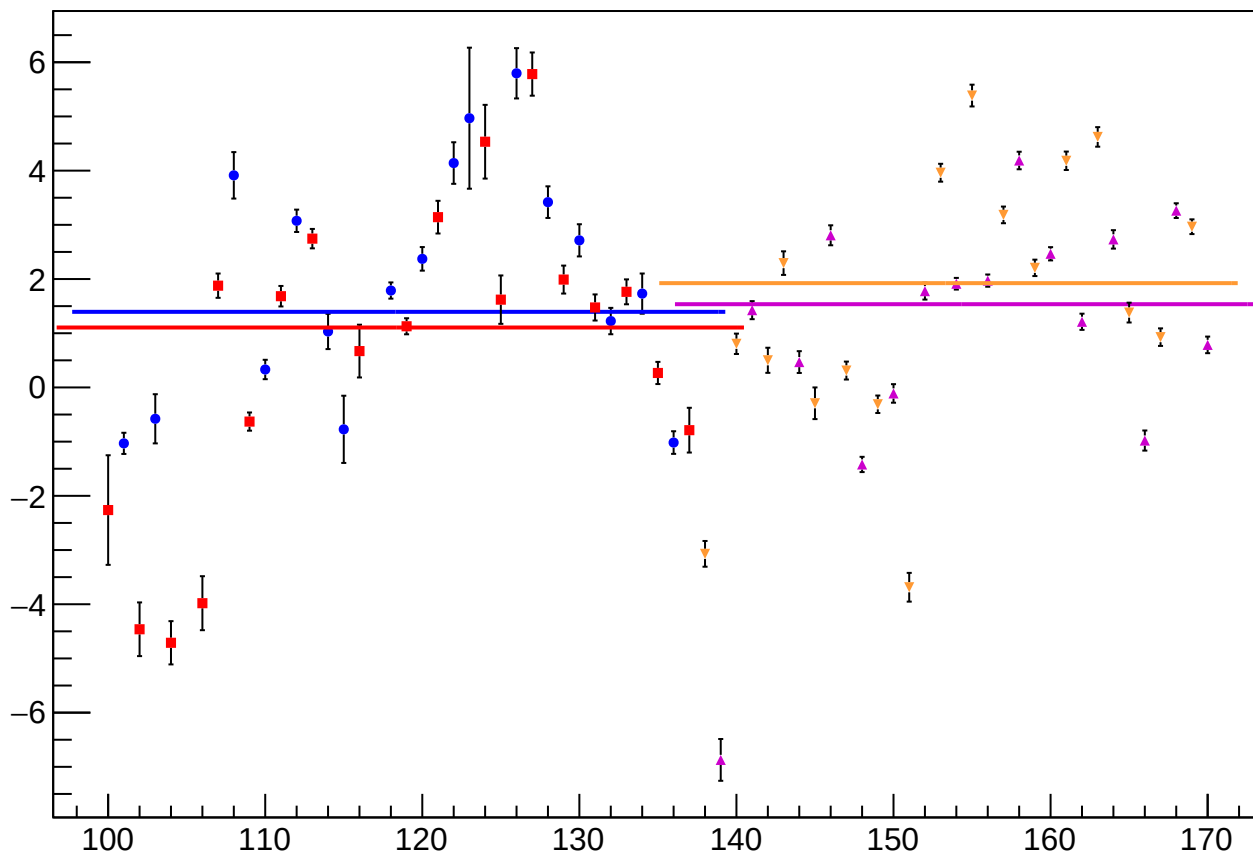
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -19.544+/-0.052 χ^2/NDF : 36042.0/15

Out: -24.727+/-0.059 χ^2/NDF : 57615.0/16

All: -21.778+/-0.039 χ^2/NDF : 97988.8/32

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.395 ± 0.063 $\chi^2/\text{NDF}: 701.4/16$

Left Out: 1.924 ± 0.044 $\chi^2/\text{NDF}: 2336.0/16$

Right Out: 1.106 ± 0.059 $\chi^2/\text{NDF}: 937.0/18$

Left In: 1.536 ± 0.038 $\chi^2/\text{NDF}: 1865.1/15$

Left: 1.702 ± 0.029 $\chi^2/\text{NDF}: 4246.2/32$

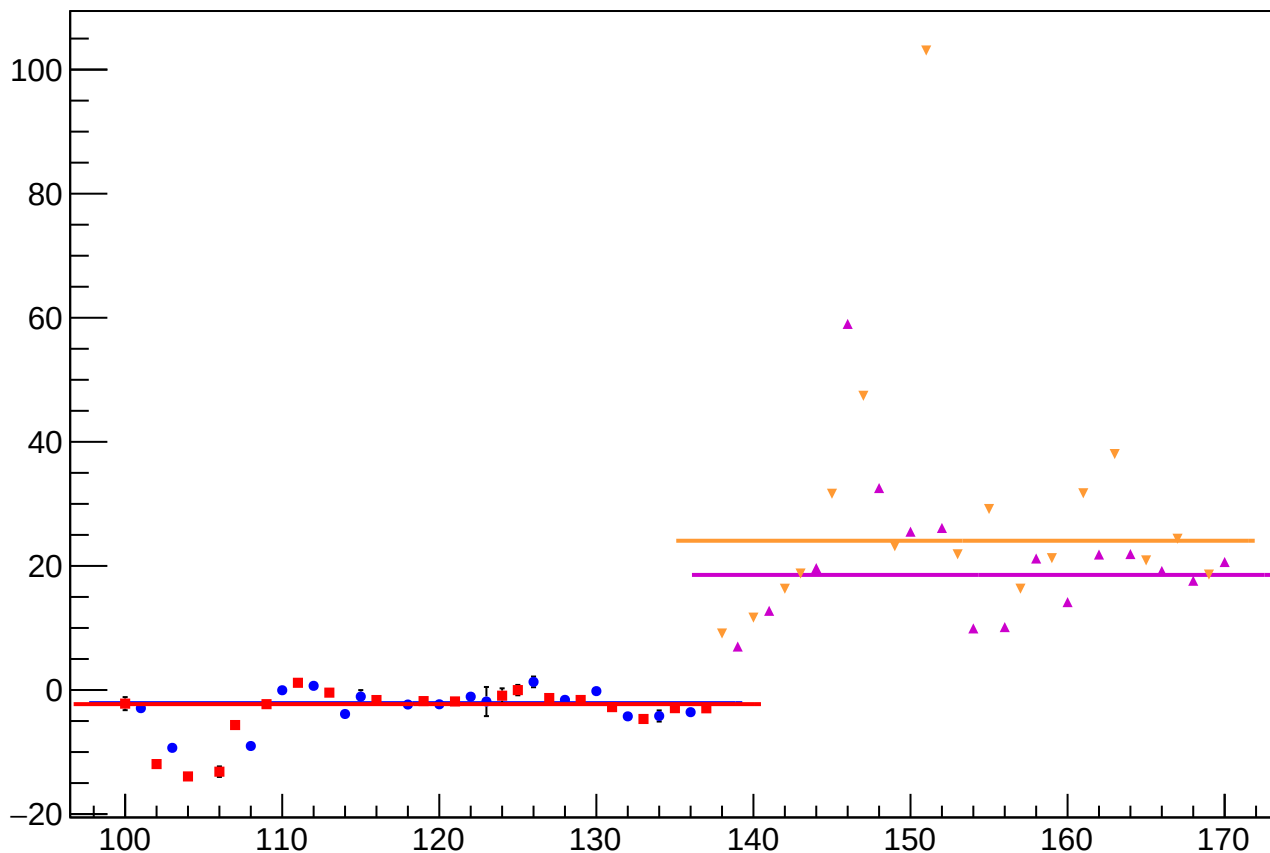
Right: 1.241 ± 0.043 $\chi^2/\text{NDF}: 1649.6/35$

In: 1.499 ± 0.032 $\chi^2/\text{NDF}: 2570.2/32$

Out: 1.635 ± 0.035 $\chi^2/\text{NDF}: 3396.5/35$

All: 1.561 ± 0.024 $\chi^2/\text{NDF}: 5974.8/68$

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.119 ± 0.113 χ^2/NDF : 486.3/16

Left Out: 24.059 ± 0.058 χ^2/NDF : 51499.3/16

Right Out: -2.277 ± 0.101 χ^2/NDF : 919.4/18

Left In: 18.551 ± 0.050 χ^2/NDF : 34024.2/15

Left: 20.888 ± 0.038 χ^2/NDF : 90628.7/32

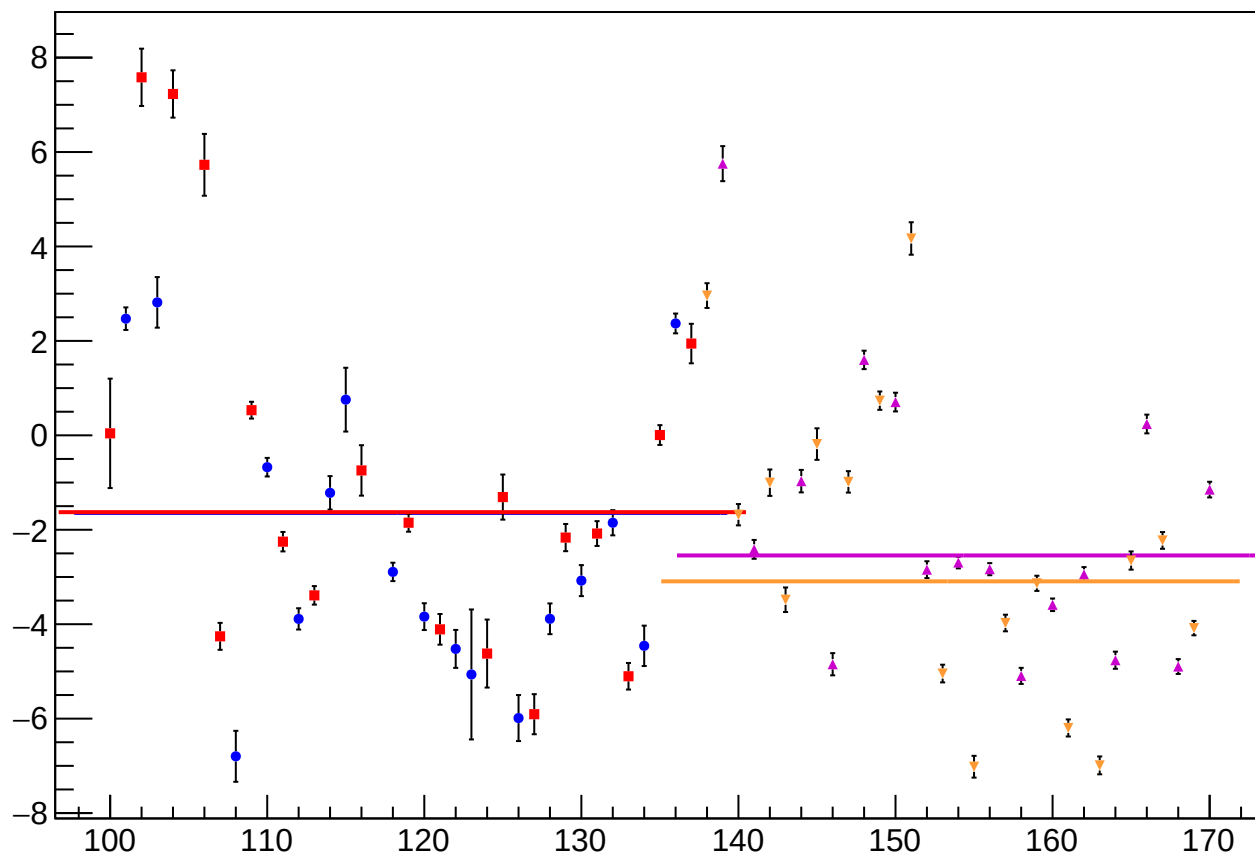
Right: -2.207 ± 0.075 χ^2/NDF : 1406.8/35

In: 15.159 ± 0.046 χ^2/NDF : 62332.0/32

Out: 17.449 ± 0.051 χ^2/NDF : 103306.7/35

All: 16.192 ± 0.034 χ^2/NDF : 166762.4/68

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.643 ± 0.072 χ^2/NDF : 1310.1/16

Left Out: -3.092 ± 0.050 χ^2/NDF : 2838.6/16

Right Out: -1.627 ± 0.067 χ^2/NDF : 1468.1/18

Left In: -2.544 ± 0.043 χ^2/NDF : 2299.7/15

Left: -2.778 ± 0.033 χ^2/NDF : 5207.8/32

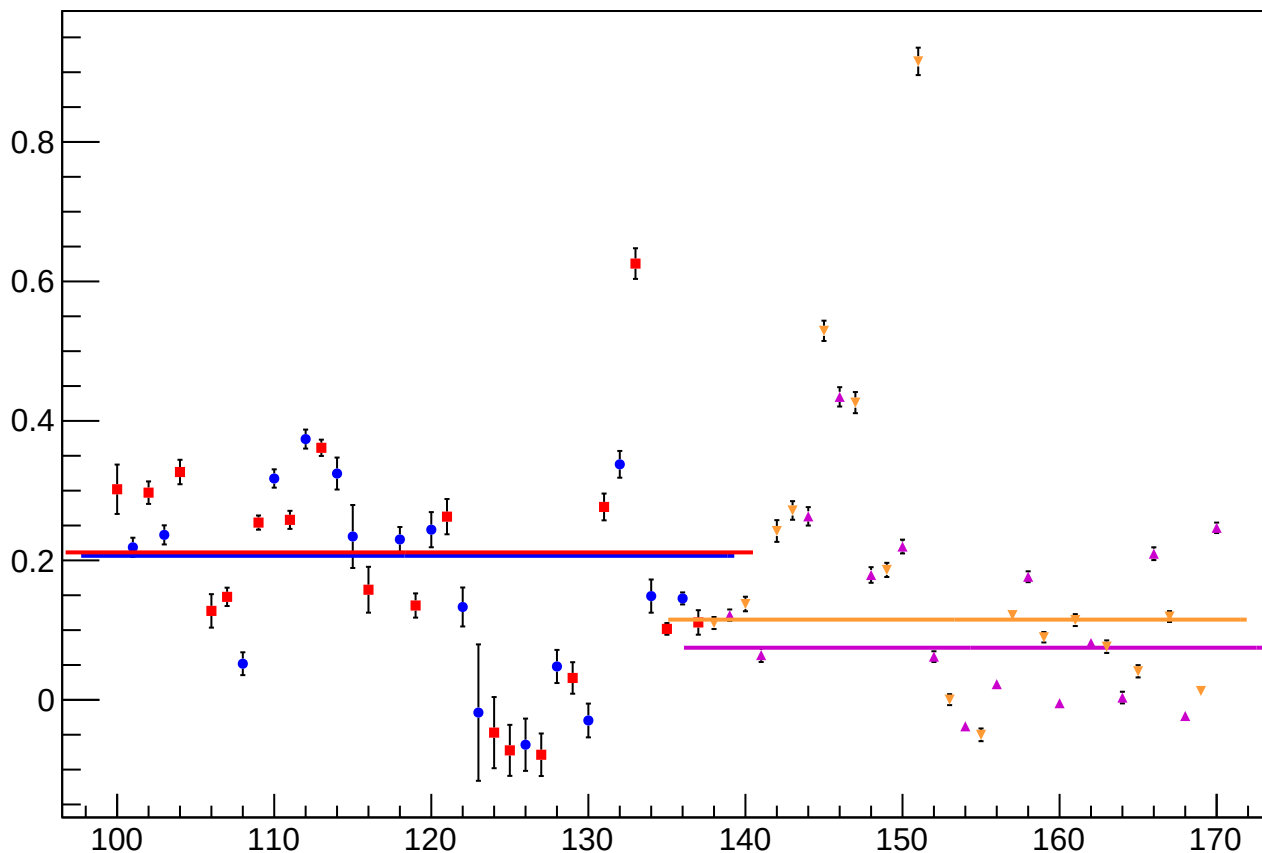
Right: -1.635 ± 0.049 χ^2/NDF : 2778.2/35

In: -2.309 ± 0.037 χ^2/NDF : 3724.3/32

Out: -2.570 ± 0.040 χ^2/NDF : 4615.2/35

All: -2.430 ± 0.027 χ^2/NDF : 8362.5/68

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.207 ± 0.004 χ^2/NDF : 655.0/16

Left Out: 0.115 ± 0.002 χ^2/NDF : 4006.1/16

Right Out: 0.211 ± 0.004 χ^2/NDF : 1145.6/18

Left In: 0.075 ± 0.002 χ^2/NDF : 3217.0/15

Left: 0.091 ± 0.001 χ^2/NDF : 7412.5/32

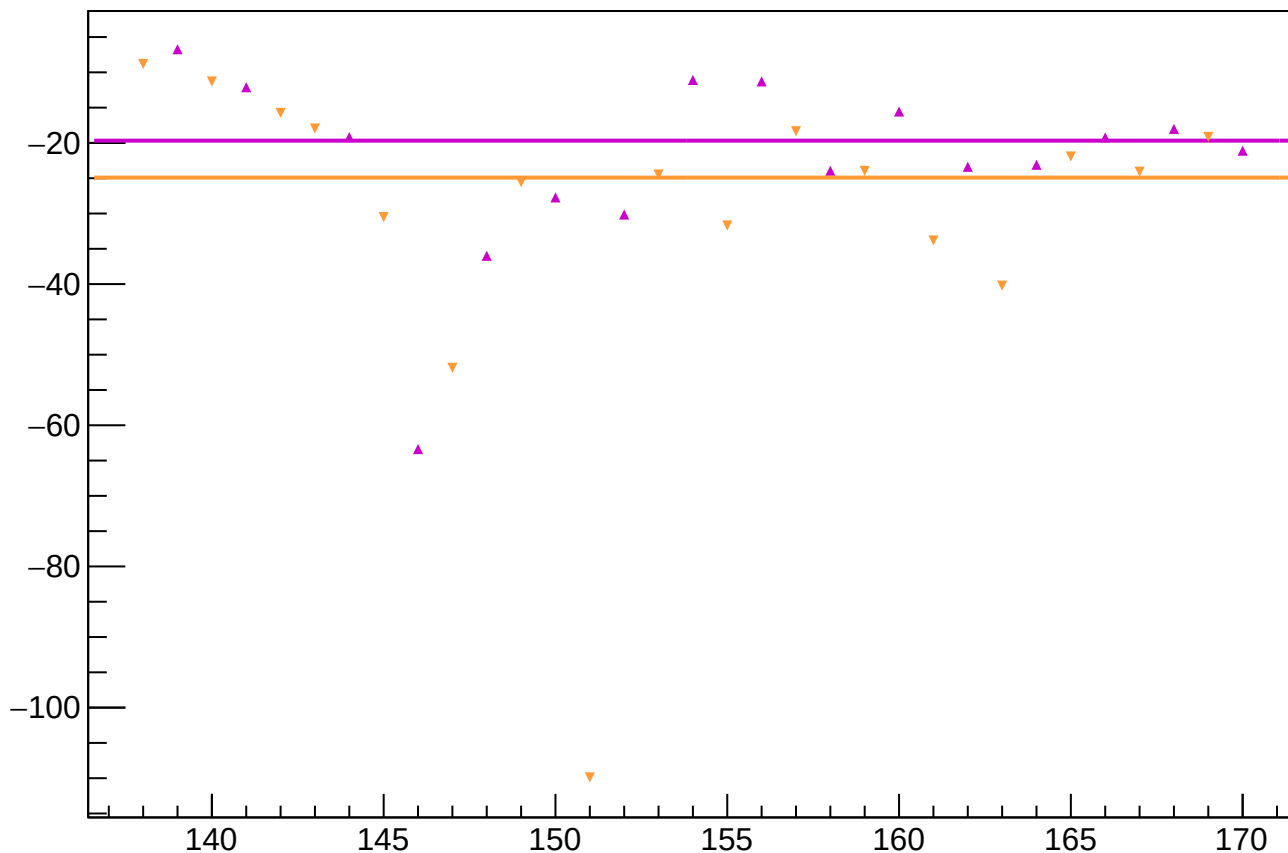
Right: 0.209 ± 0.003 χ^2/NDF : 1801.3/35

In: 0.097 ± 0.002 χ^2/NDF : 4686.2/32

Out: 0.140 ± 0.002 χ^2/NDF : 5635.5/35

All: 0.116 ± 0.001 χ^2/NDF : 10609.1/68

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: -24.912+/-0.060 χ^2/NDF :56402.6/16
 Right Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: -19.679+/-0.052 χ^2/NDF :36332.3/15

Left: -21.944+/-0.039 χ^2/NDF : 97056.0/32

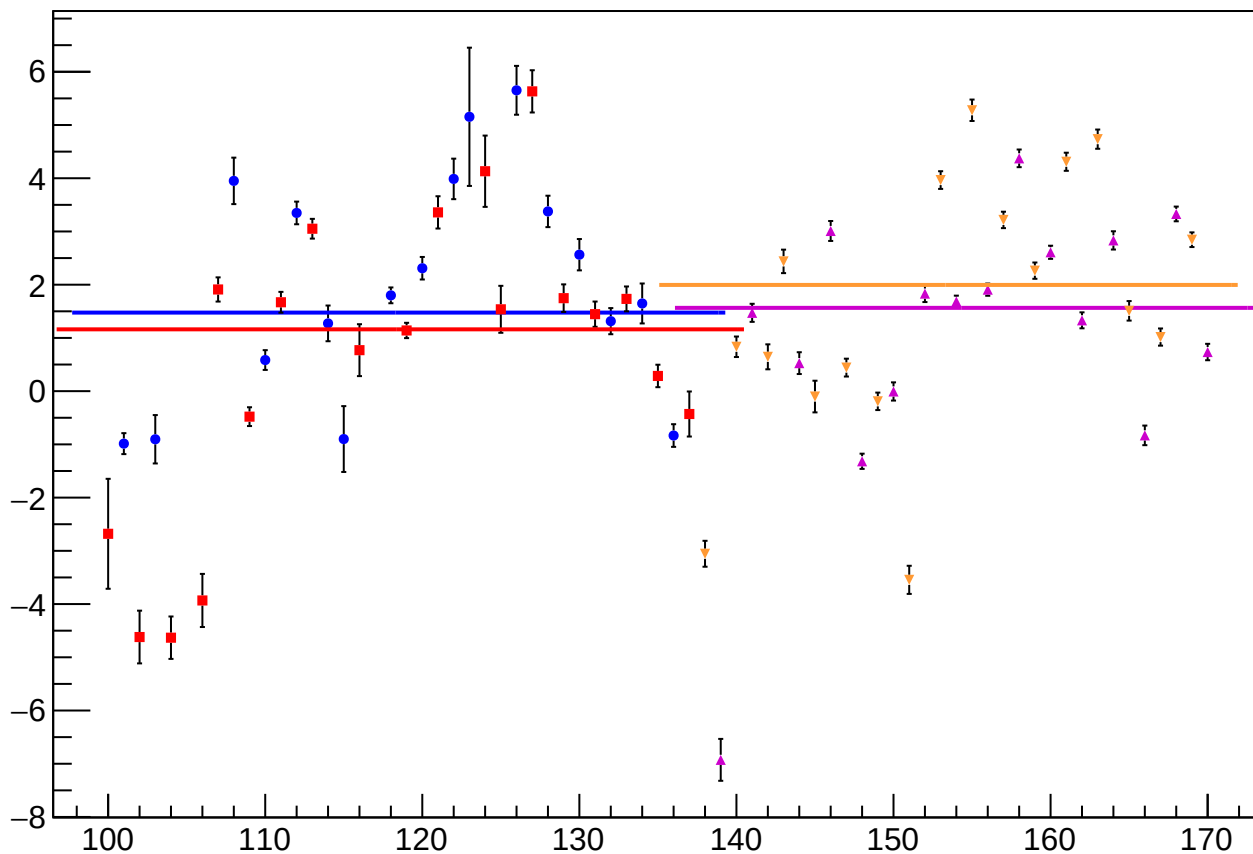
Right: 0.000+/-0.000 χ^2/NDF : 0.0/0

In: -19.679+/-0.052 χ^2/NDF :36332.3/15

Out: -24.912+/-0.060 χ^2/NDF :56402.6/16

All: -21.944+/-0.039 χ^2/NDF : 97056.0/32

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.476 $\pm$ 0.064 χ^2 /NDF: 659.7/16

Left Out: 1.996 $\pm$ 0.044 χ^2 /NDF:2225.3/16

Right Out: 1.161 $\pm$ 0.060 χ^2 /NDF: 917.9/18

Left In: 1.565 $\pm$ 0.038 χ^2 /NDF:1830.9/15

Left: 1.750 $\pm$ 0.029 χ^2 /NDF: 4110.4/32

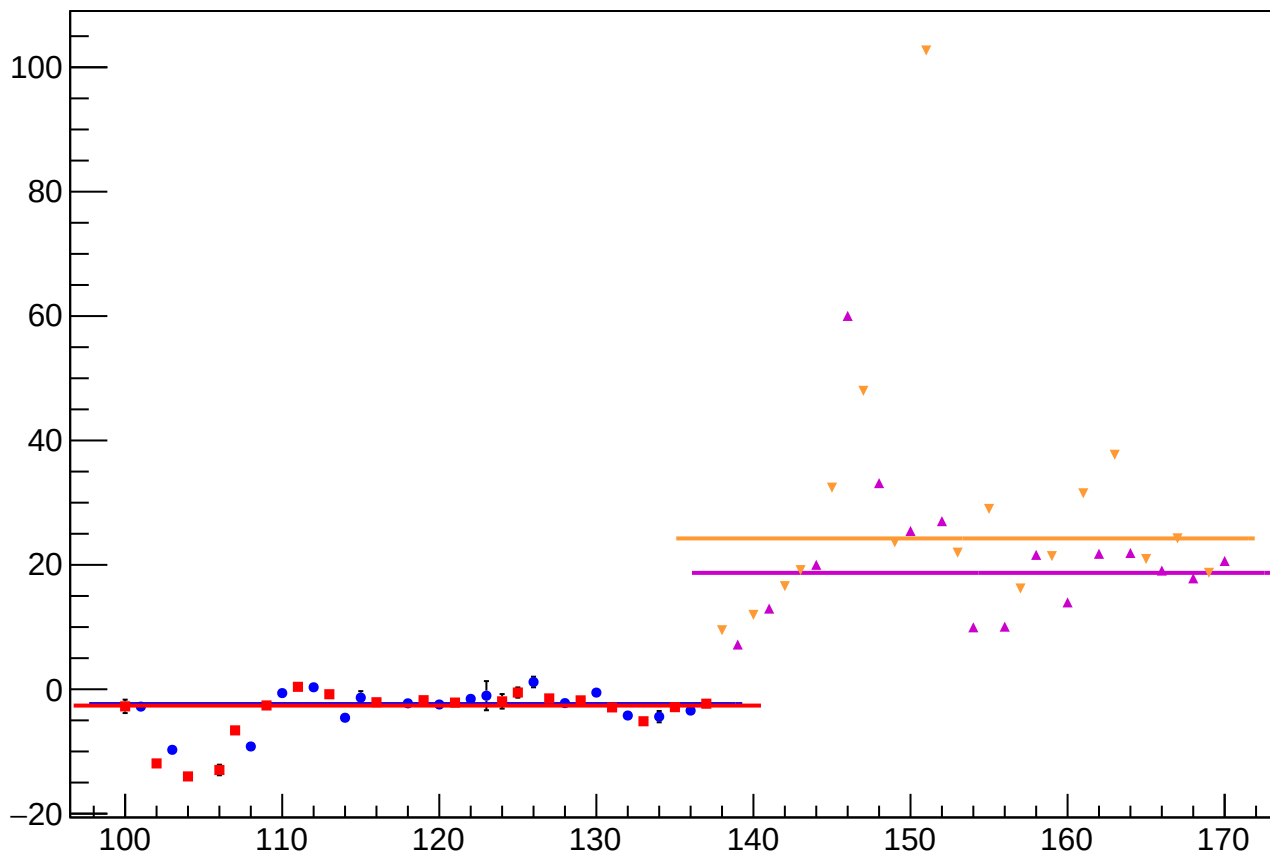
Right: 1.309 $\pm$ 0.044 χ^2 /NDF: 1590.5/35

In: 1.541 $\pm$ 0.033 χ^2 /NDF:2492.0/32

Out: 1.702 $\pm$ 0.036 χ^2 /NDF:3268.7/35

All: 1.615 $\pm$ 0.024 χ^2 /NDF: 5771.8/68

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.380 ± 0.115 χ^2/NDF : 438.8/16

Left Out: 24.251 ± 0.059 χ^2/NDF : 50539.4/16

Right Out: -2.623 ± 0.103 χ^2/NDF : 841.3/18

Left In: 18.715 ± 0.051 χ^2/NDF : 34332.4/15

Left: 21.075 ± 0.039 χ^2/NDF : 89920.9/32

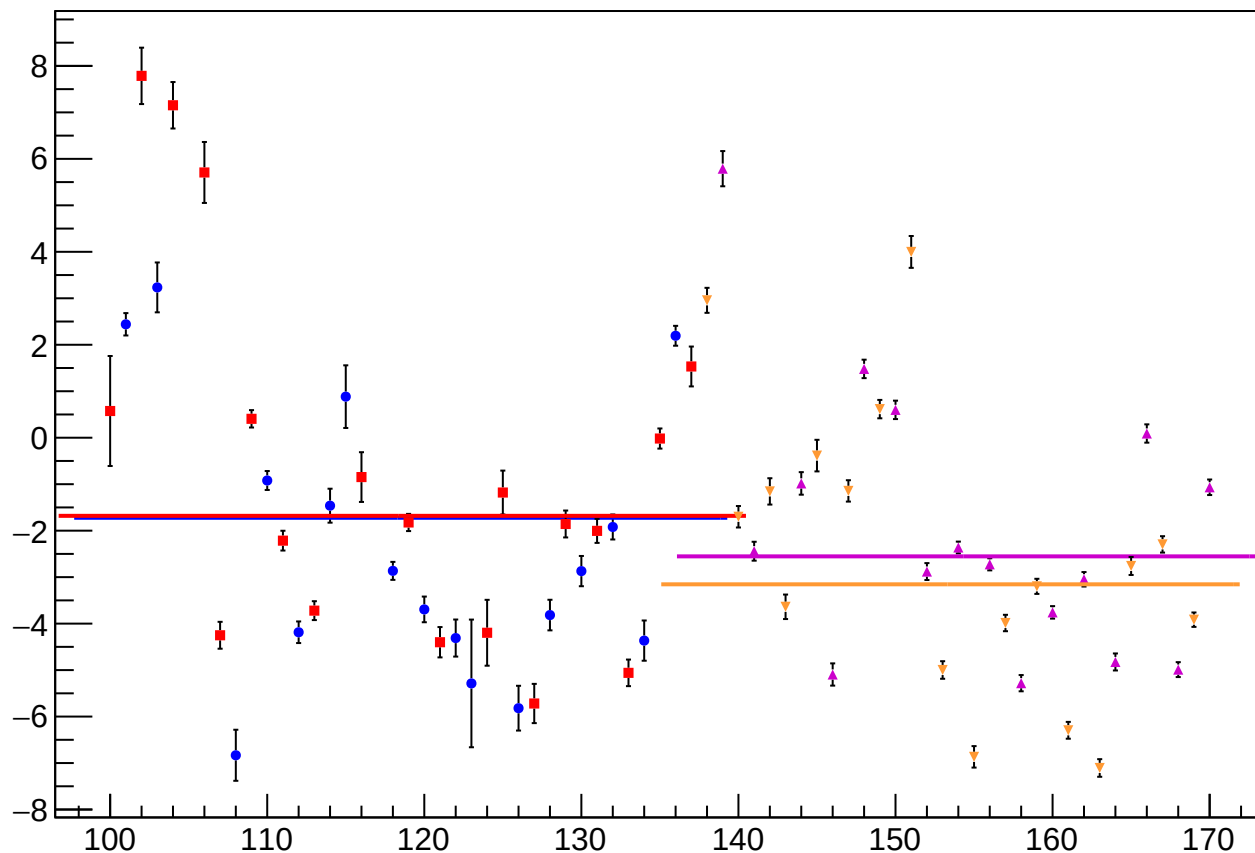
Right: -2.514 ± 0.077 χ^2/NDF : 1282.5/35

In: 15.264 ± 0.047 χ^2/NDF : 62899.6/32

Out: 17.633 ± 0.051 χ^2/NDF : 102436.9/35

All: 16.334 ± 0.034 χ^2/NDF : 166508.5/68

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.722±/0.073 χ^2/NDF : 1247.6/16

Left Out: -3.154±/0.050 χ^2/NDF :2713.3/16

Right Out: -1.681±/0.068 χ^2/NDF : 1431.0/18

Left In: -2.553±/0.044 χ^2/NDF :2291.7/15

Left: -2.811±/0.033 χ^2/NDF : 5086.9/32

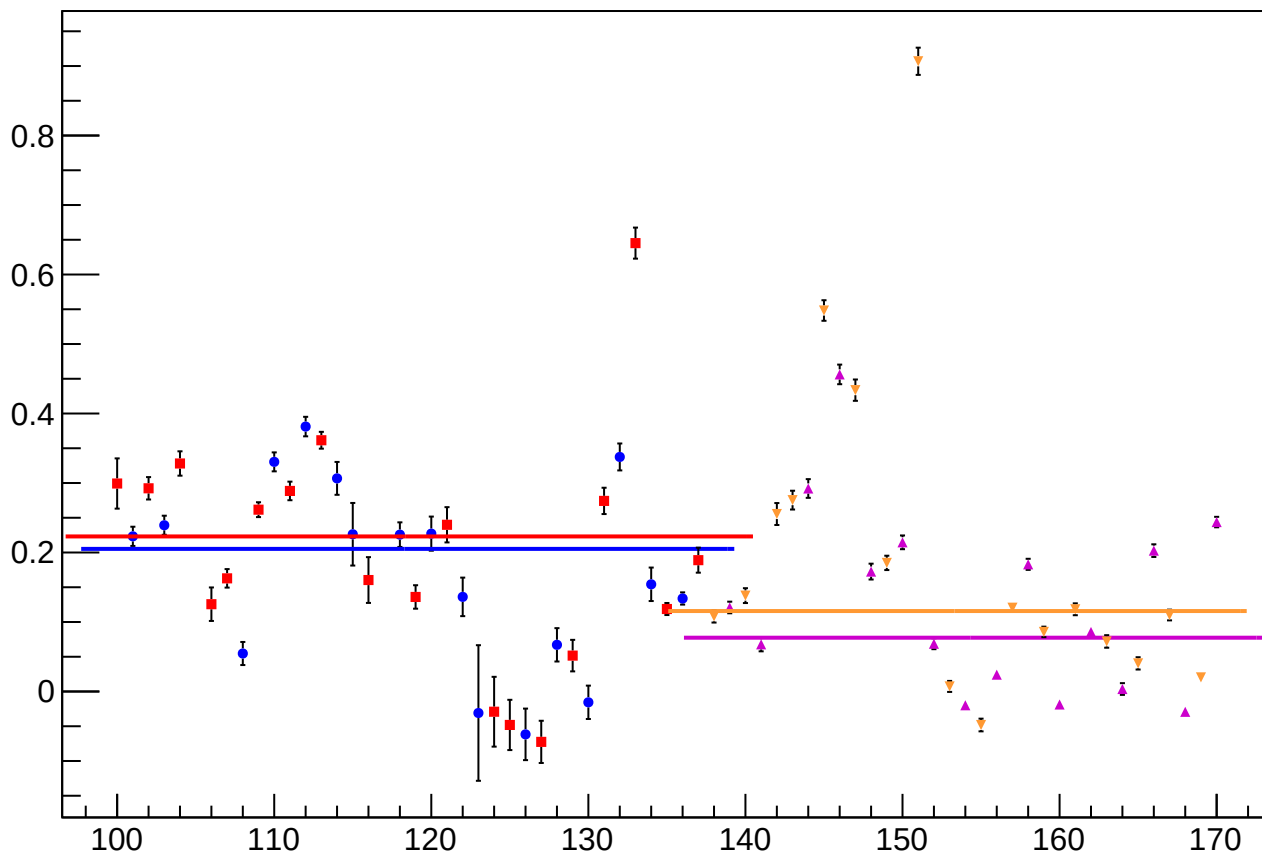
Right: -1.700±/0.050 χ^2/NDF : 2678.8/35

In: -2.335±/0.037 χ^2/NDF :3634.6/32

Out: -2.634±/0.040 χ^2/NDF :4448.5/35

All: -2.473±/0.027 χ^2/NDF : 8112.5/68

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.205 $\pm$ 0.004 χ^2 /NDF: 650.7/16

Left Out: 0.116 $\pm$ 0.002 χ^2 /NDF:3987.9/16

Right Out: 0.223 $\pm$ 0.004 χ^2 /NDF: 1040.5/18

Left In: 0.077 $\pm$ 0.002 χ^2 /NDF:3182.7/15

Left: 0.093 $\pm$ 0.001 χ^2 /NDF: 7338.6/32

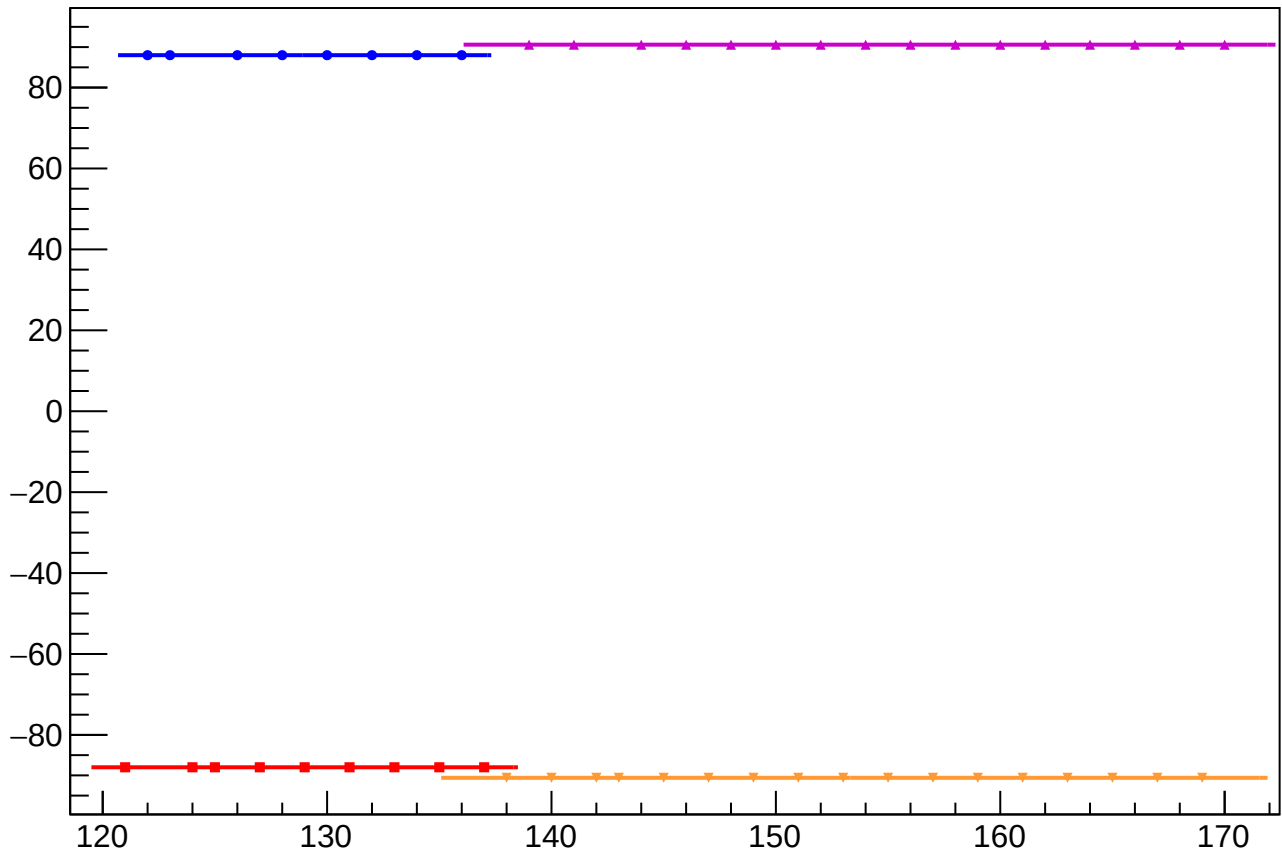
Right: 0.215 $\pm$ 0.003 χ^2 /NDF: 1700.9/35

In: 0.099 $\pm$ 0.002 χ^2 /NDF:4578.5/32

Out: 0.143 $\pm$ 0.002 χ^2 /NDF:5608.2/35

All: 0.118 $\pm$ 0.001 χ^2 /NDF: 10481.3/68

VWienAngle_mean vs Slug, Sign Corrected



Left: -0.903 $\pm$ 0.000 χ^2 /NDF: 21404943011757968

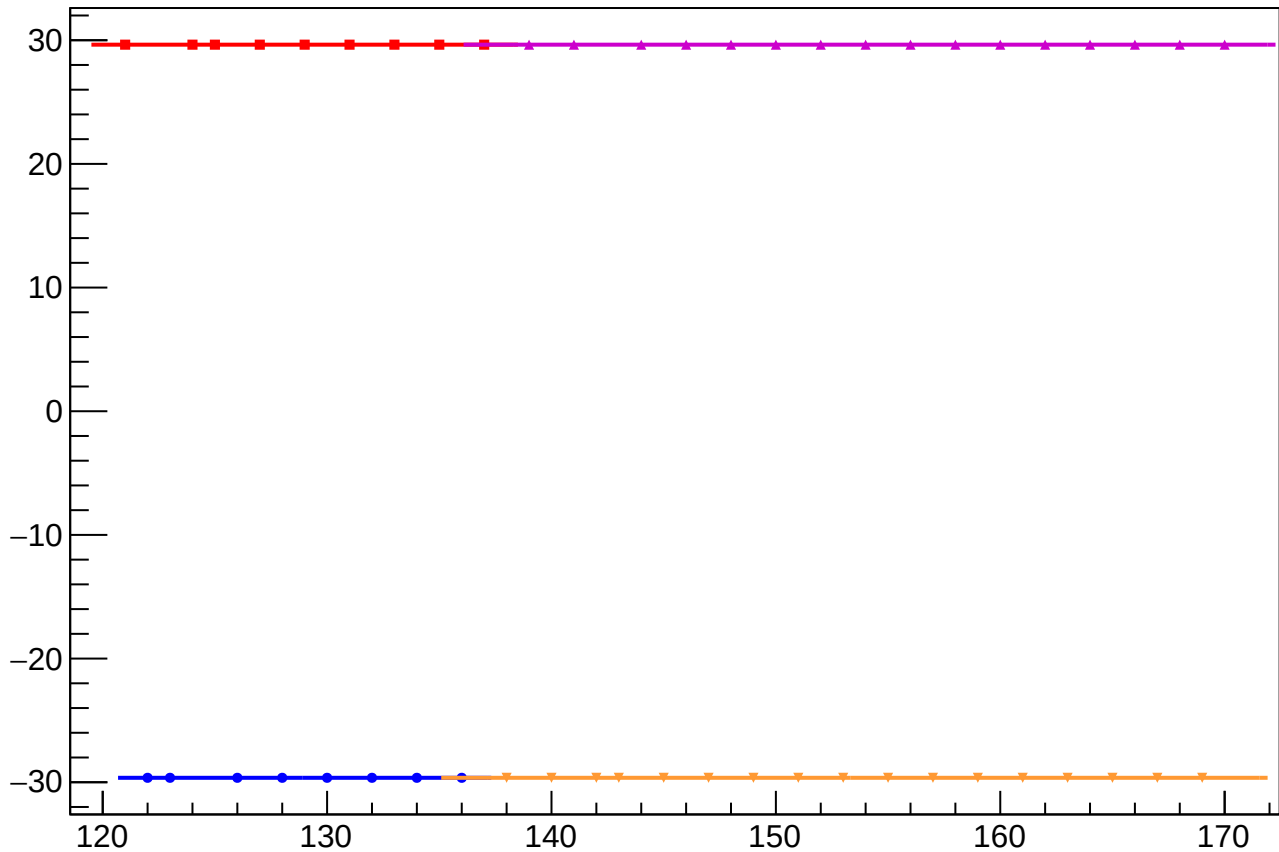
Right: 3.062 $\pm$ 0.000 χ^2 /NDF: 51126681569224617

In: 90.055 $\pm$ 0.000 χ^2 /NDF: 182575686681049309

Out: -90.093 $\pm$ 0.000 χ^2 /NDF: 1734083228222317

All: -0.101 $\pm$ 0.000 χ^2 /NDF: 2652590277509

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.641+/-0.000 χ^2/NDF : 405045.4/7

Left Out: -29.641+/-0.000 χ^2/NDF : 255666.7/16

Right Out: 29.641+/-0.000 χ^2/NDF : 29358.2/8

Left In: 29.641+/-0.000 χ^2/NDF : 198363.8/15

Left: -0.295+/-0.000 χ^2/NDF : 22910861749571153

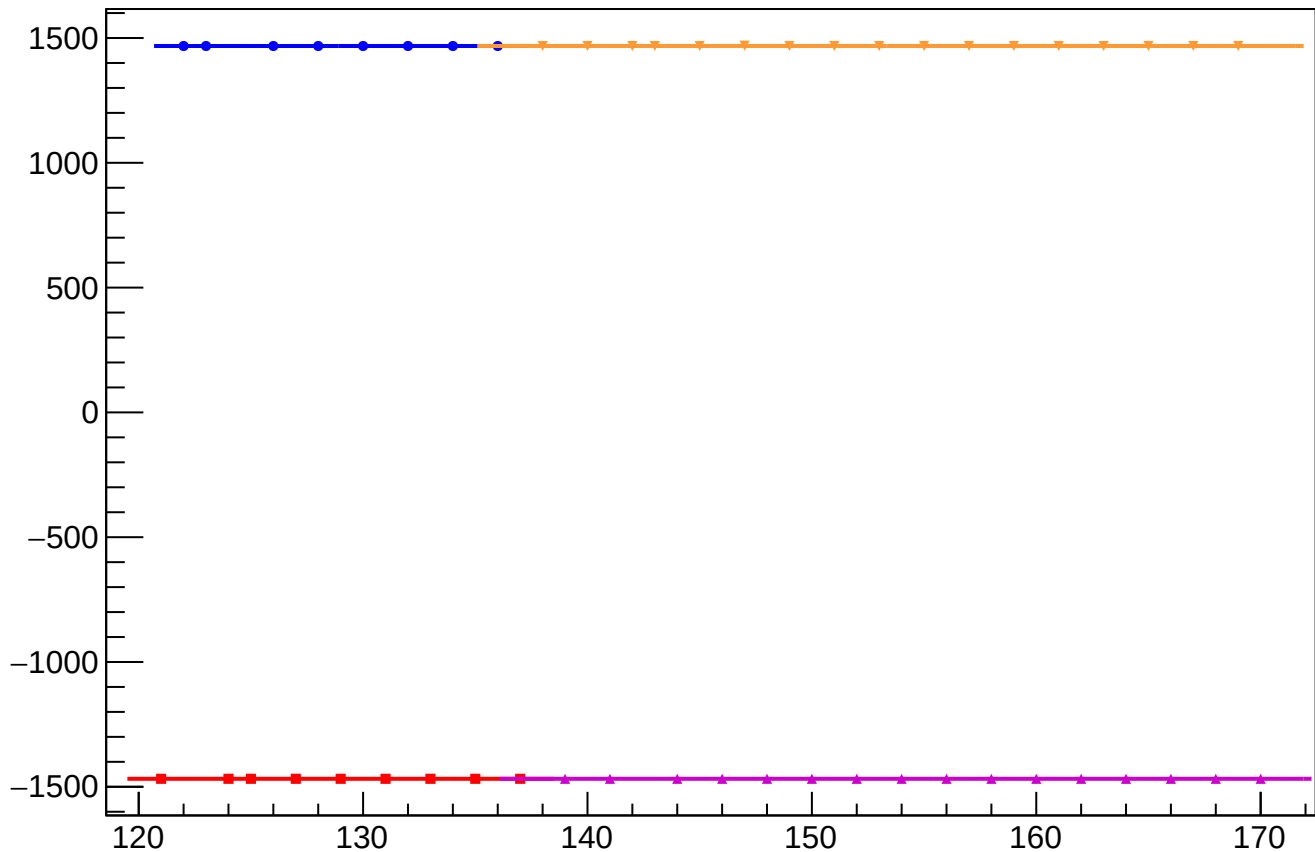
Right: -1.031+/-0.000 χ^2/NDF : 5800324943766944

In: 17.225+/-0.000 χ^2/NDF : 950174034190674959

Out: -18.082+/-0.000 χ^2/NDF : 9024645540349513

All: -0.444+/-0.000 χ^2/NDF : 2871404231050

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1467.979+/-0.000

χ^2/NDF : 436234375.5/7

Left Out: 1468.070+/-0.000

χ^2/NDF : 125904492014255527949286389055488.0/16

Right Out: -1467.979+/-0.000

χ^2/NDF : 83183350.3/8

Left In: -1467.991+/-0.000

χ^2/NDF : 123070487966281594197961080832.0/15

Left: 14.674+/-0.000

χ^2/NDF : 56199785233220218

Right: 51.079+/-0.000

χ^2/NDF : 1422706063207371

In: -853.110+/-0.000

χ^2/NDF : 2330610046082132

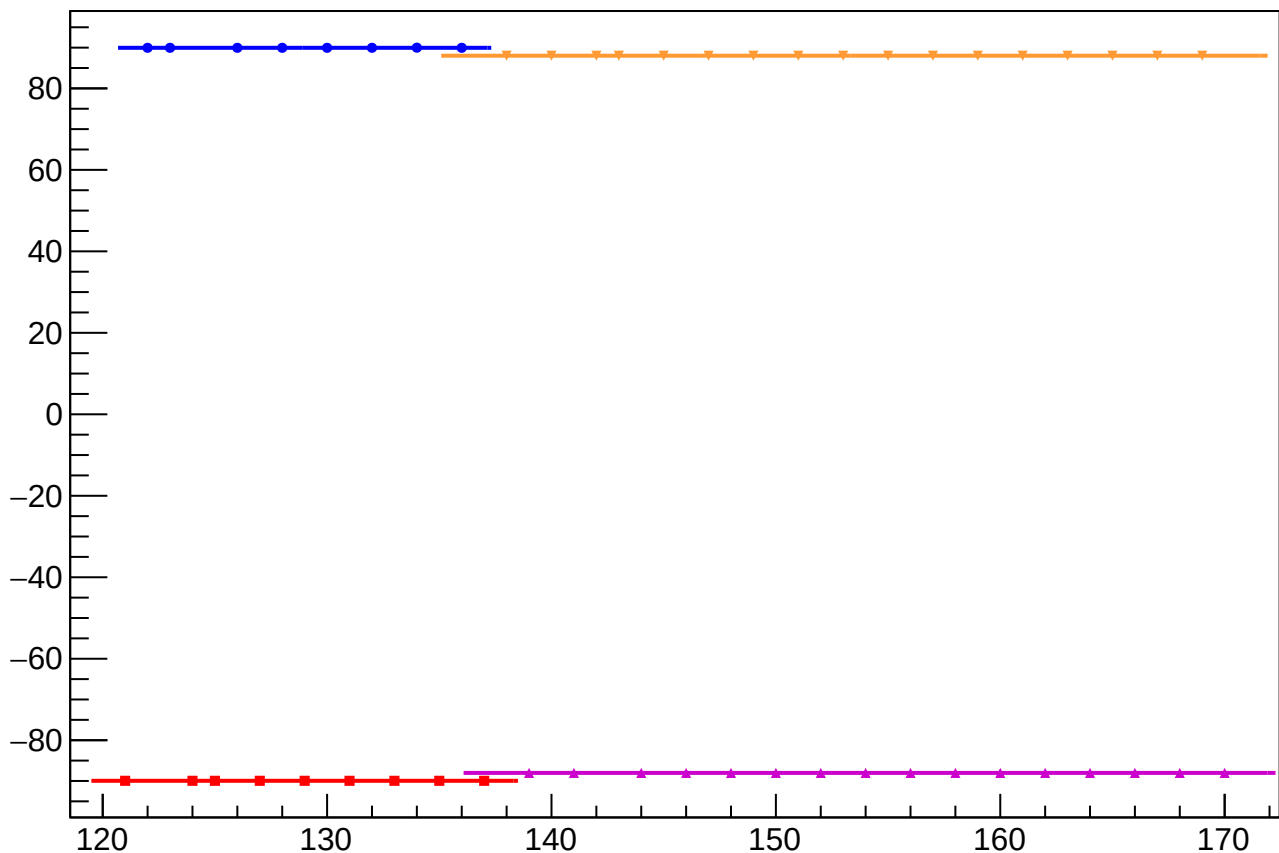
Out: 895.576+/-0.000

χ^2/NDF : 2213705284029015

All: 22.036+/-0.000

χ^2/NDF : 7043383489568

Phi_FG_mean vs Slug, Sign Corrected



Right In: 89.961+/-0.000 χ^2/NDF : 21528640598708602874349223936.0/7

Left Out: 88.021+/-0.000 χ^2/NDF : 4601798.0/16

Right Out: -89.959+/-0.000 χ^2/NDF : 331397.3/8

Left In: -88.021+/-0.000 χ^2/NDF : 4825960.7/15

Left: 0.878+/-0.000 χ^2/NDF : 202038478094556015

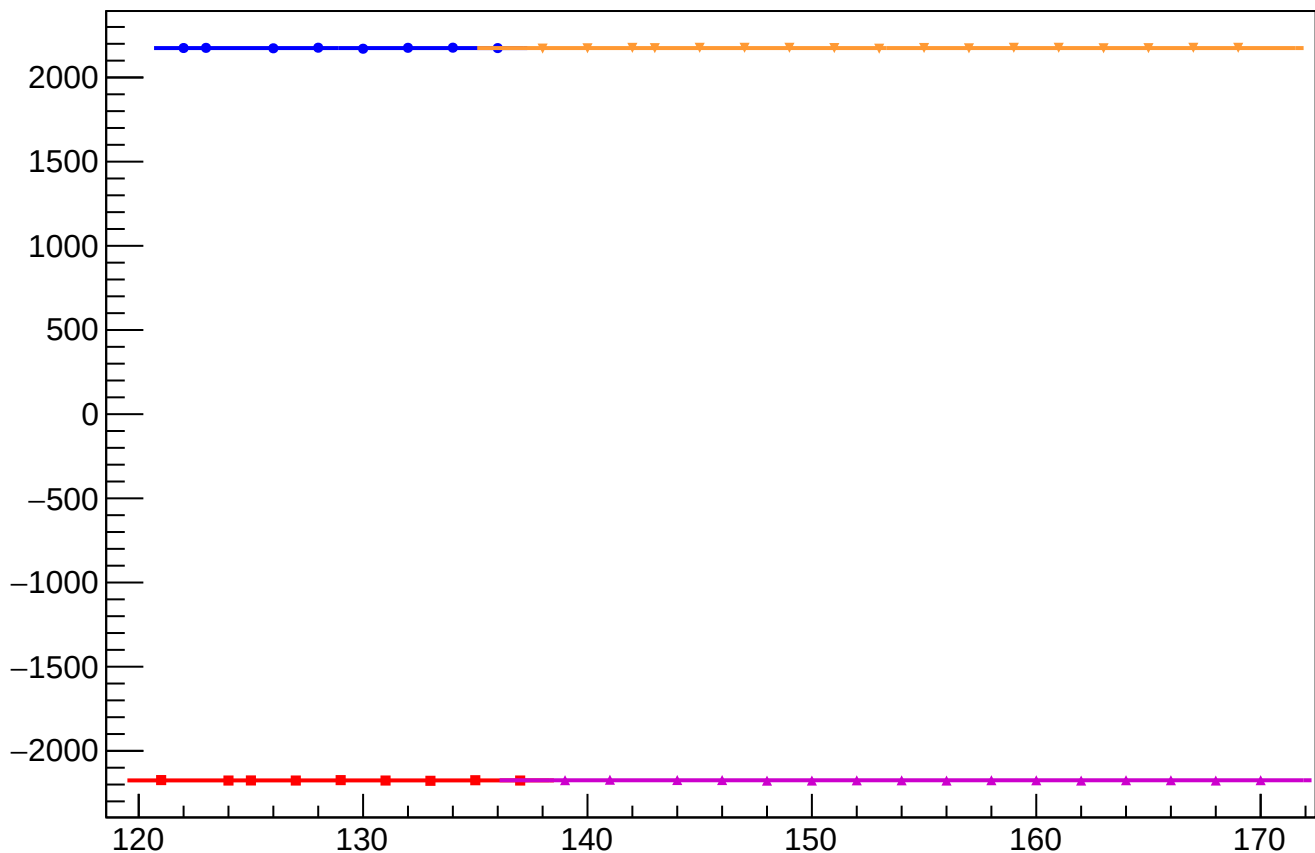
Right: 3.131+/-0.000 χ^2/NDF : 53429021948733419

In: -50.746+/-0.000 χ^2/NDF : 85648245944243621

Out: 53.317+/-0.000 χ^2/NDF : 81345880344065866

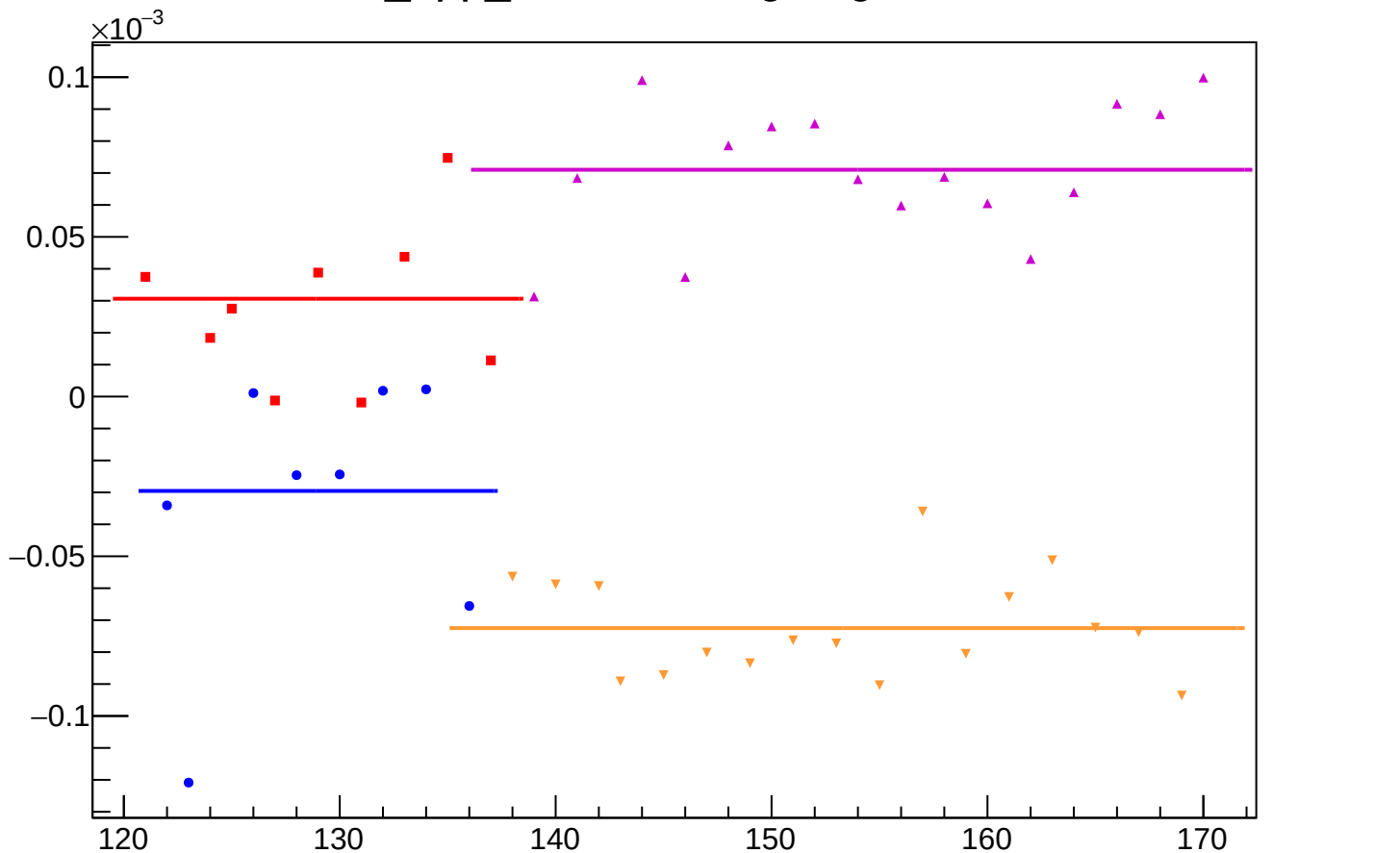
All: 1.333+/-0.000 χ^2/NDF : 25549428579517

HALLA_p_mean vs Slug, Sign Corrected



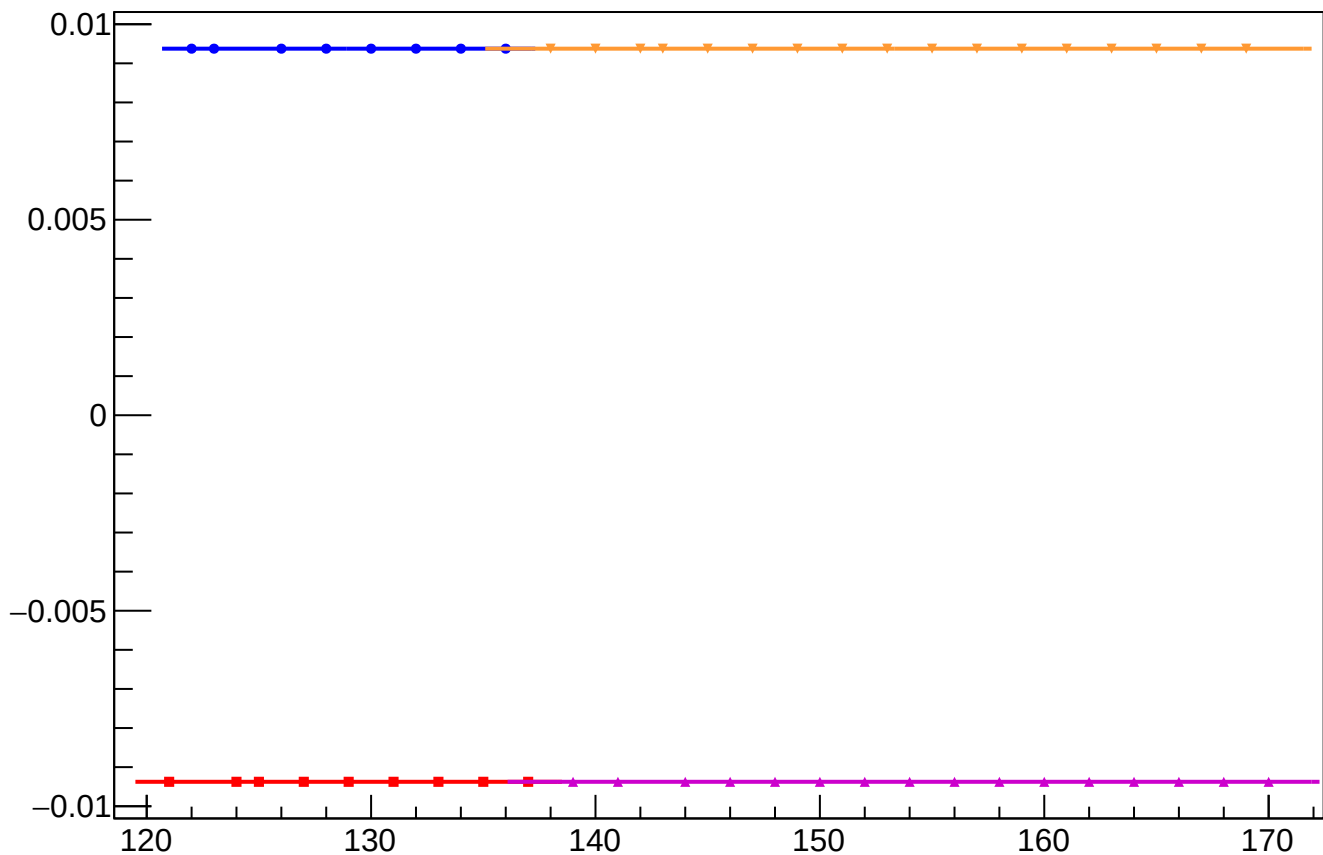
Right In: 2174.572+/-0.000 χ^2/NDF : 1360264074026849381407550448074752.0/7
 Left Out: 2174.589+/-0.000 χ^2/NDF : 3939034343367545832206118443548672.0/16
 Right Out: -2175.442+/-0.000 χ^2/NDF : 610778445075790556034346524868608.0/8
 Left In: -2174.640+/-0.000 χ^2/NDF : 2633723365059104496347361568620544.0/15
 All: 32.490+/-0.000 χ^2/NDF : 1545657097014

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000	χ^2/NDF : 250161267307815387529216.0/7	Left: -0.000+/-0.000	χ^2/NDF : 14261360802499846
Left Out: -0.000+/-0.000	χ^2/NDF : 316515149519856546611200.0/16	Right: -0.000+/-0.000	χ^2/NDF : 1044577663810456
Right Out: 0.000+/-0.000	χ^2/NDF : 196732771178766734983168.0/8	In: 0.000+/-0.000	χ^2/NDF : 3504062493743364173
Left In: 0.000+/-0.000	χ^2/NDF : 520103546705728262635520.0/15	Out: -0.000+/-0.000	χ^2/NDF : 32440904363367810
		All: -0.000+/-0.000	χ^2/NDF : 1530641671559

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 0.0/7

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 0.1/16

Right Out: -0.009 $\pm$ 0.000 χ^2 /NDF: 0.0/8

Left In: -0.009 $\pm$ 0.000 χ^2 /NDF: 0.1/15

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 229195968534316872

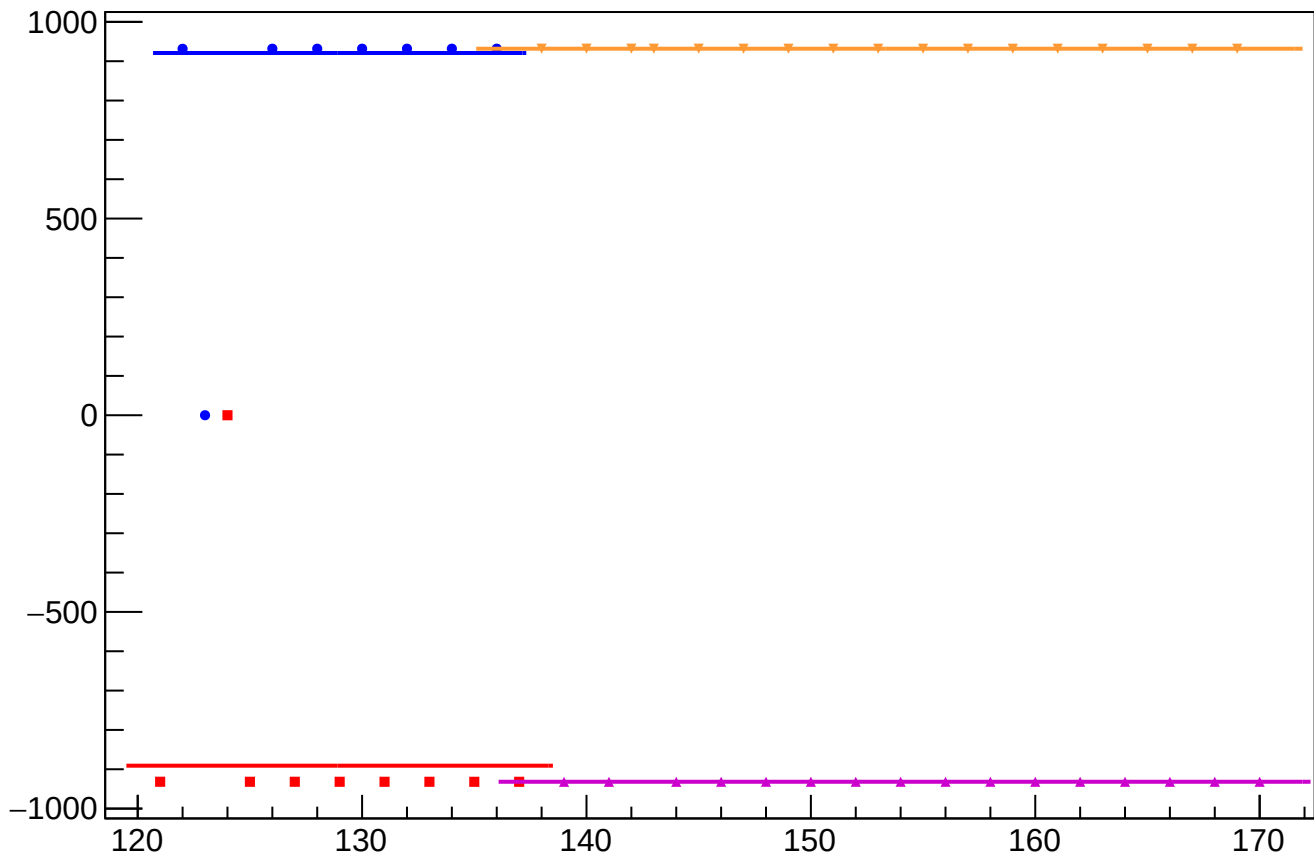
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 58025364031769994

In: -0.005 $\pm$ 0.000 χ^2 /NDF: 950536302051436857

Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 902808631952932241

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 28724989962526

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 920.898+/-0.000

χ^2/NDF : 3432128841951899861299566212080992256.0/7

Left Out: 931.785+/-0.000

χ^2/NDF : 3833002418758540890657567801344.0/16

Right Out: -890.923+/-0.000

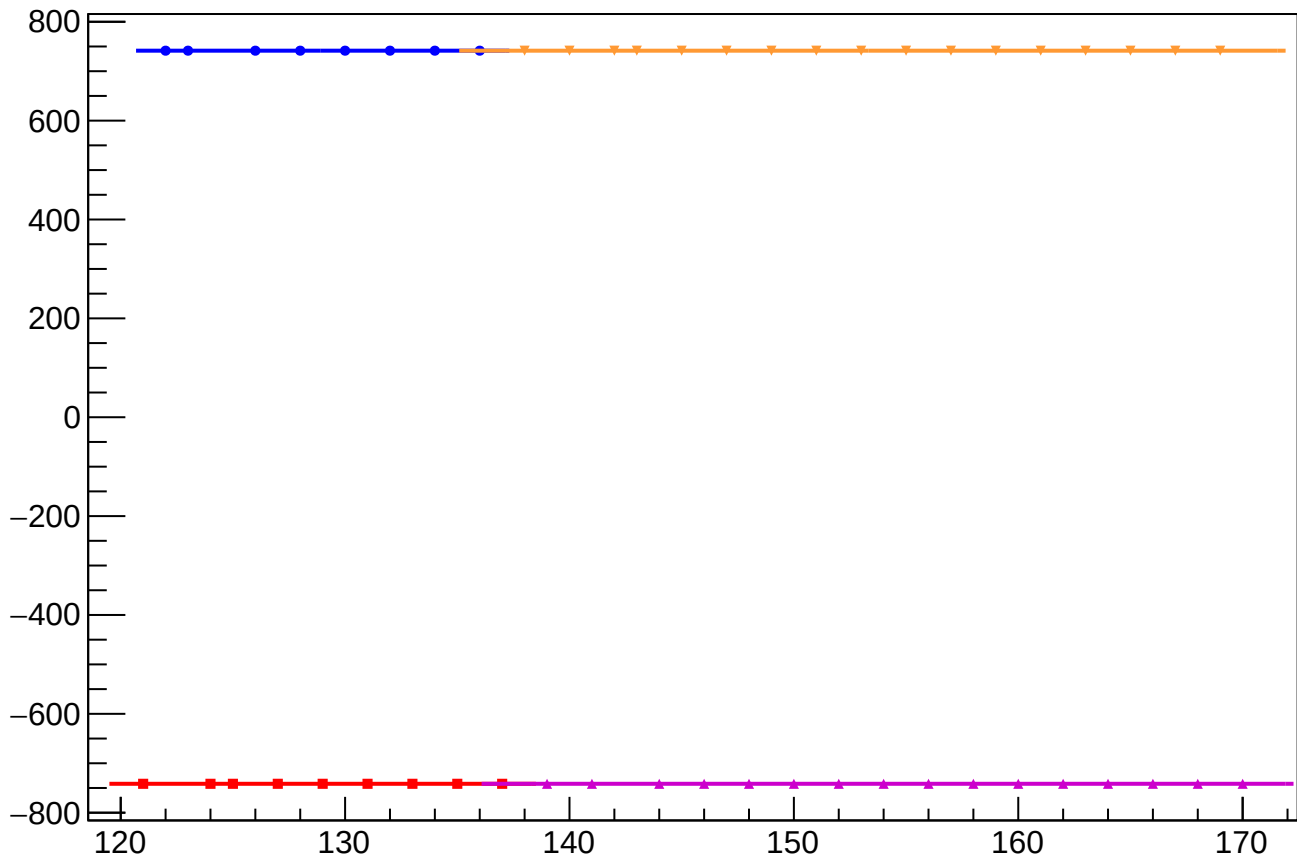
χ^2/NDF : 11621671430114409722932854398744788992.0/8

Left In: -931.773+/-0.000

χ^2/NDF : 3376361485574593352568225660928.0/15

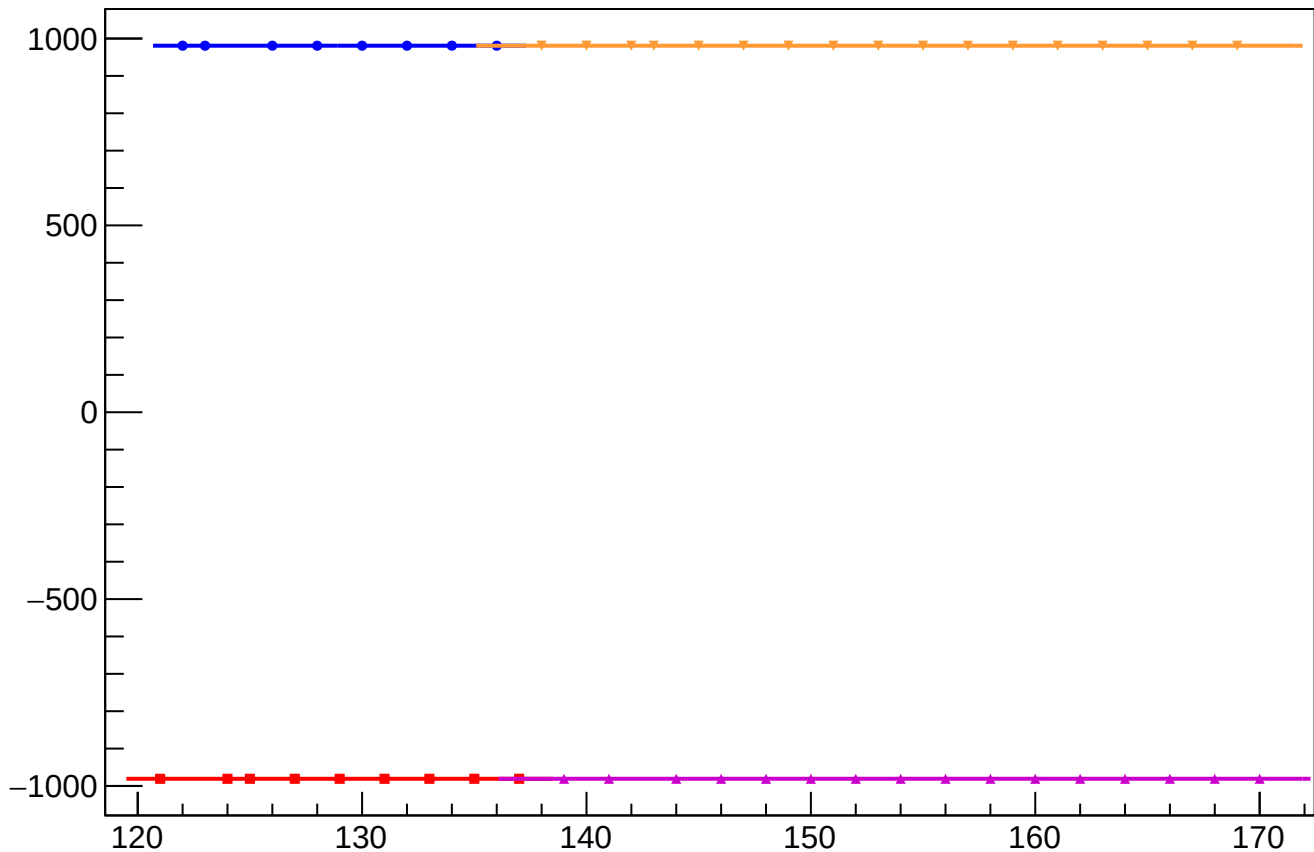
All: 16.820+/-0.000 χ^2/NDF : 2821663601956

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



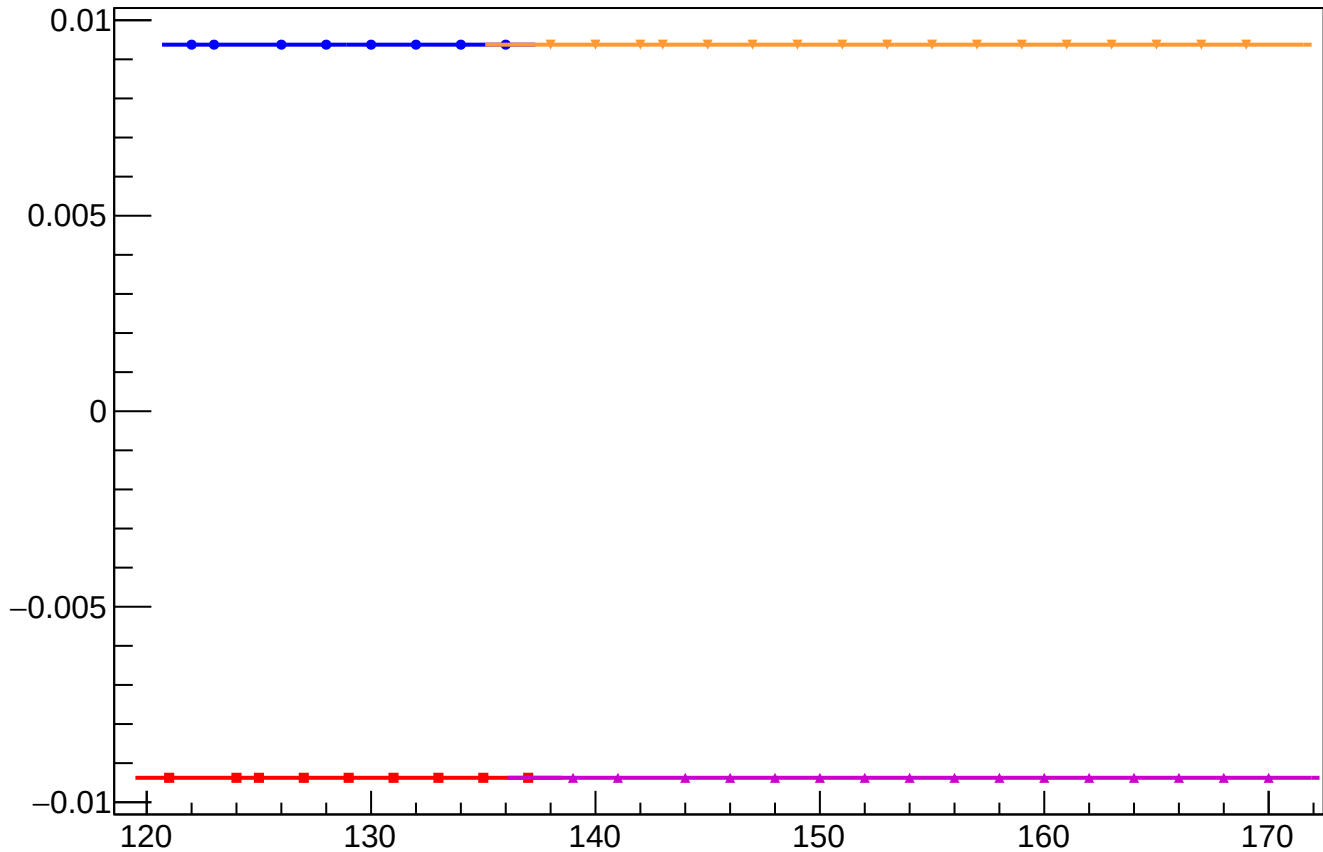
Right In: 741.528+/-0.000 χ^2/NDF : 18896144326732419810052800512.0/7
 Left Out: 741.514+/-0.000 χ^2/NDF : 171044028525835011352789254144.0/16
 Right Out: -741.529+/-0.000 χ^2/NDF : 16580353917842624420385914880.0/8
 Left In: -741.514+/-0.000 χ^2/NDF : 155147332325440332398900281344.0/15
 All: 11.115+/-0.000 χ^2/NDF : 1797046376446

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 980.825 +/- 0.000 χ^2/NDF : 159345321268745350954763681792.0/7
 Left Out: 980.769 +/- 0.000 χ^2/NDF : 618331153898802898873652084736.0/16
 Right Out: -980.818 +/- 0.000 χ^2/NDF : 143689912167528137563261894656.0/8
 Left In: -980.777 +/- 0.000 χ^2/NDF : 1292640556007464453371932442624.0/15
 All: 14.699 +/- 0.000 χ^2/NDF : 3143860551186

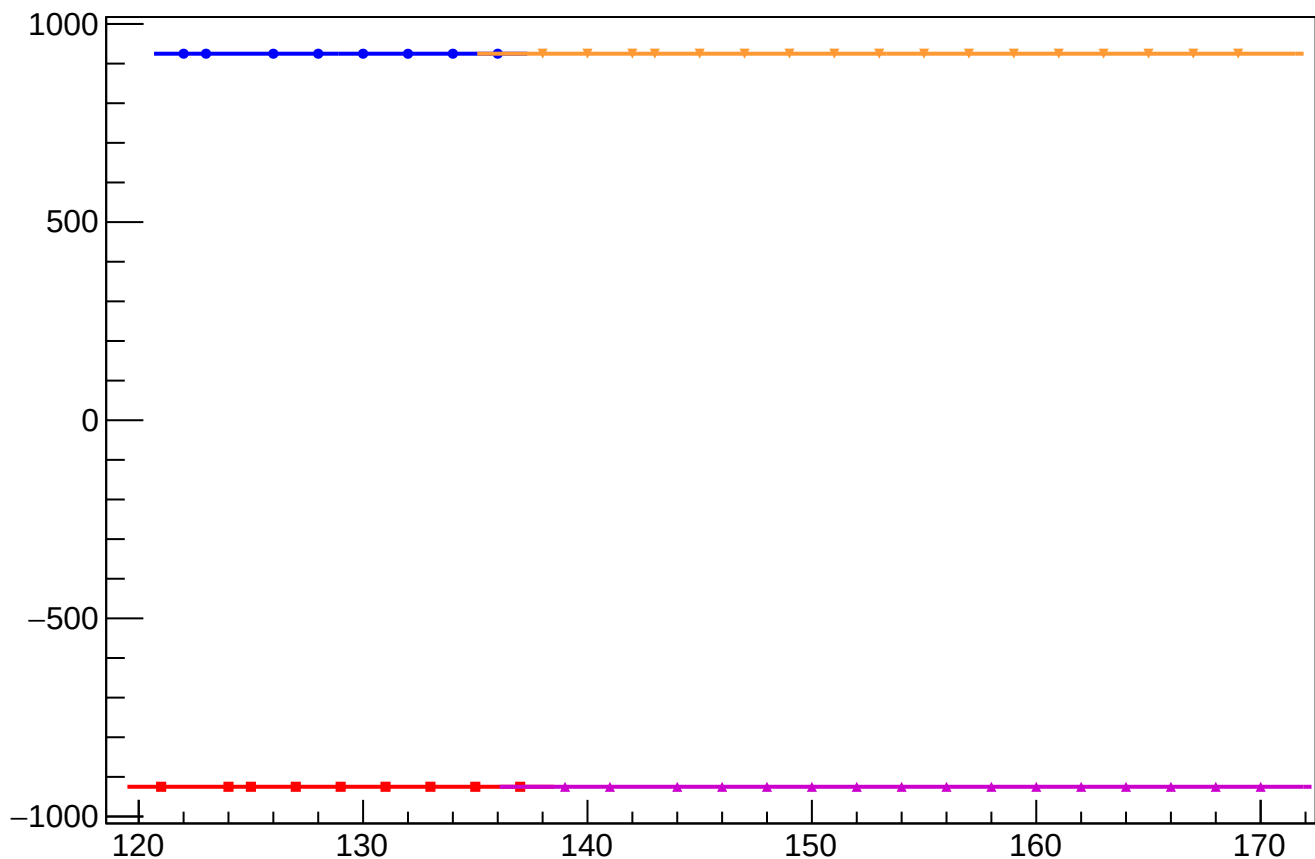
MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.0/7
Left Out: 0.009+/-0.000 χ^2/NDF : 0.1/16
Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/8
Left In: -0.009+/-0.000 χ^2/NDF : 0.1/15

Left: 0.000+/-0.000 χ^2/NDF : 229195968534316872
Right: 0.000+/-0.000 χ^2/NDF : 58025364031769994
In: -0.005+/-0.000 χ^2/NDF : 950536302051436857
Out: 0.006+/-0.000 χ^2/NDF : 902808631952932241
All: 0.000+/-0.000 χ^2/NDF : 28724989962526

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 924.939+/-0.000

χ^2/NDF : 1401458495809517406218388242432.0/7

Left Out: 924.985+/-0.000

χ^2/NDF : 805061454561538003411008487424.0/16

Right Out: -924.957+/-0.000

χ^2/NDF : 71808709366506786060310151168.0/8

Left In: -924.987+/-0.000

χ^2/NDF : 681165829667366349556408123392.0/15

Left: 9.221+/-0.000 χ^2/NDF : 223118005077508385

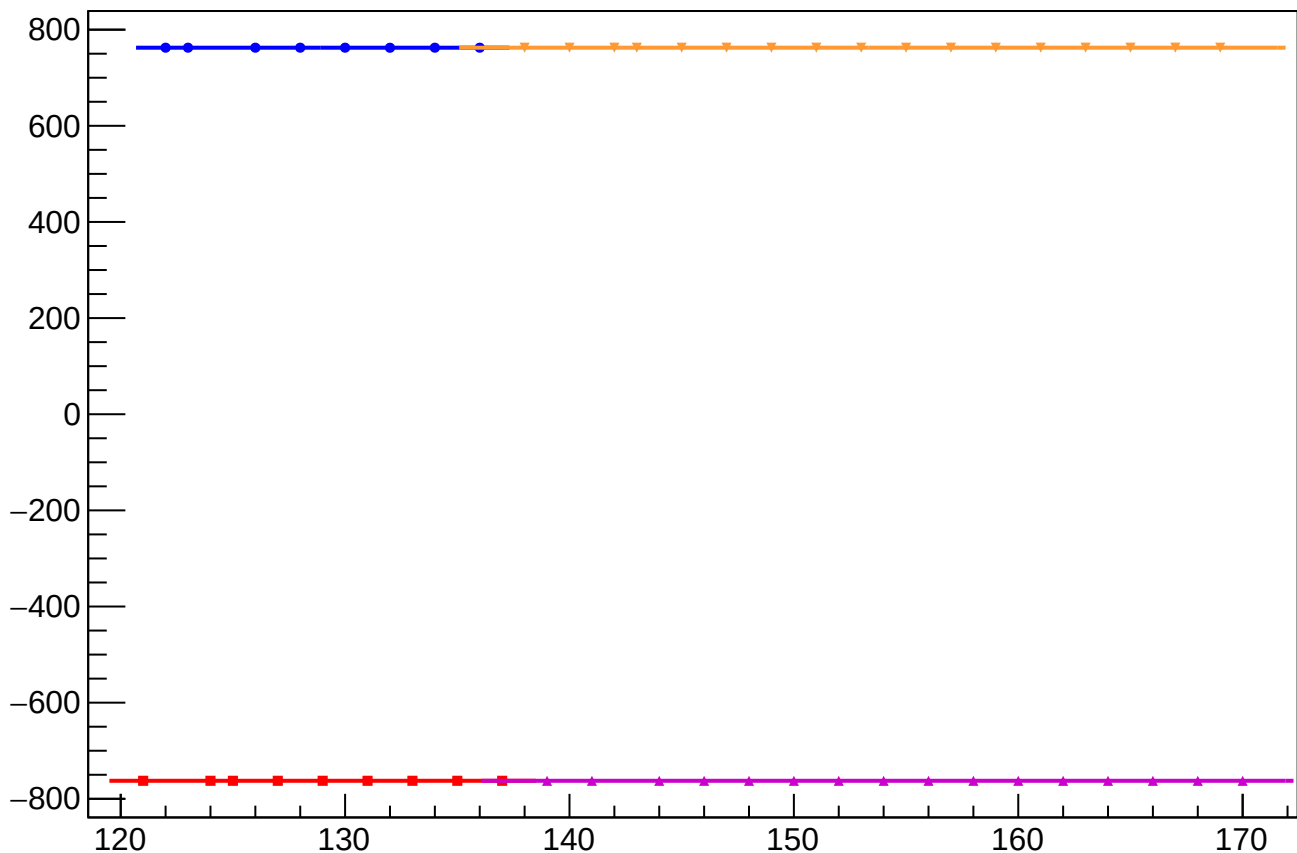
Right: 32.175+/-0.000 χ^2/NDF : 5648201825061875

In: -537.556+/-0.000 χ^2/NDF : 9252838415247759

Out: 564.269+/-0.000 χ^2/NDF : 8788391791461391

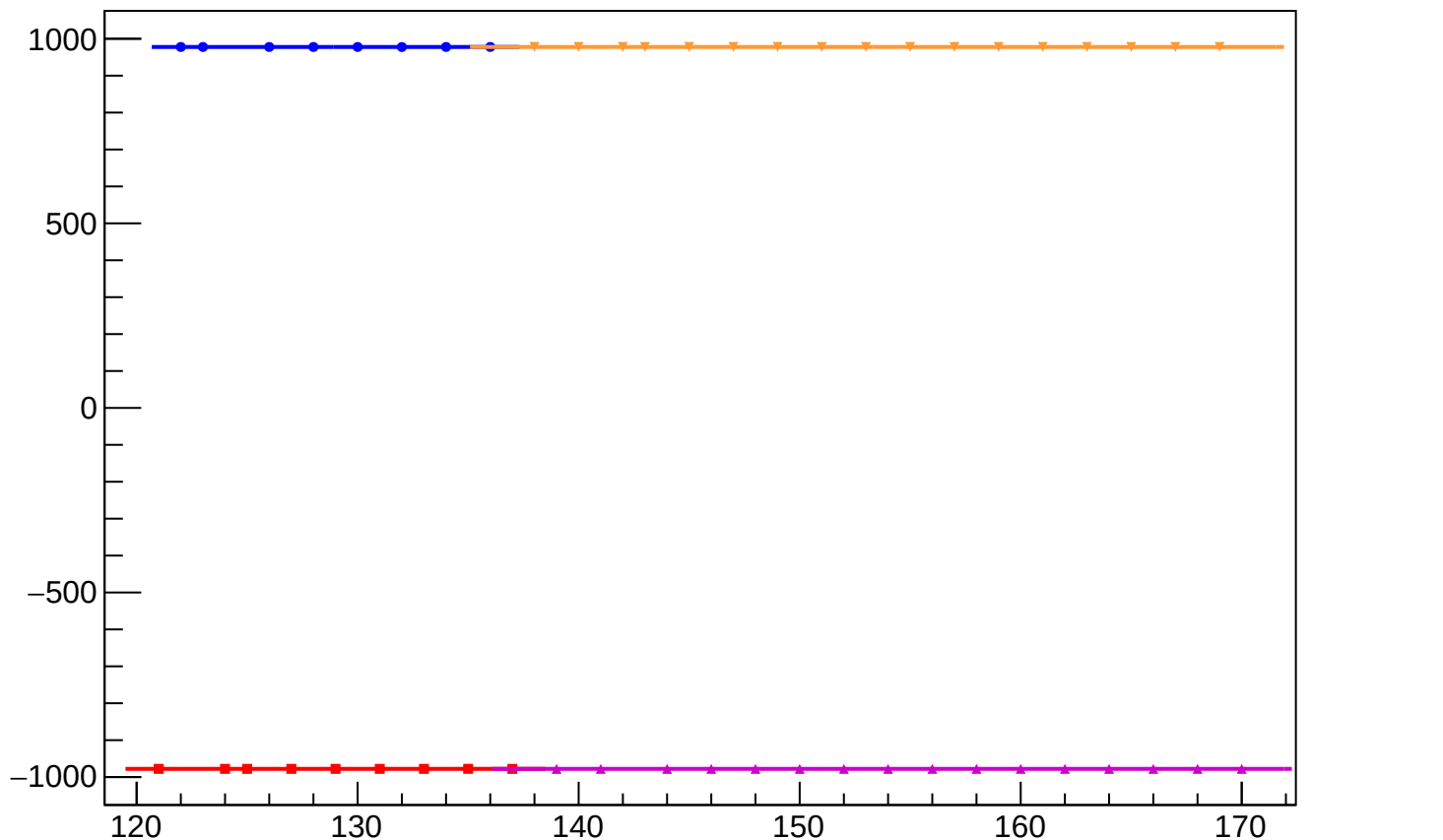
All: 13.862+/-0.000 χ^2/NDF : 2796278104813

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 762.484+/-0.000	χ^2/NDF : 784430761251084401798891438080.0/7	Left: 7.601+/-0.000	χ^2/NDF : 151620159252448975
Left Out: 762.511+/-0.000	χ^2/NDF : 445833172744948229650186764288.0/16	Right: 26.523+/-0.000	χ^2/NDF : 3838365691051738
Right Out: -762.501+/-0.000	χ^2/NDF : 469794702848036819563446272.0/8	In: -443.131+/-0.000	χ^2/NDF : 6287866337915976
Left In: -762.512+/-0.000	χ^2/NDF : 399668308447036960363276926976.0/15	Out: 465.152+/-0.000	χ^2/NDF : 5972271719325238
		All: 11.427+/-0.000	χ^2/NDF : 1900226966064

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Left: 9.749 +/- 0.000 χ^2/NDF : 249292948039441718

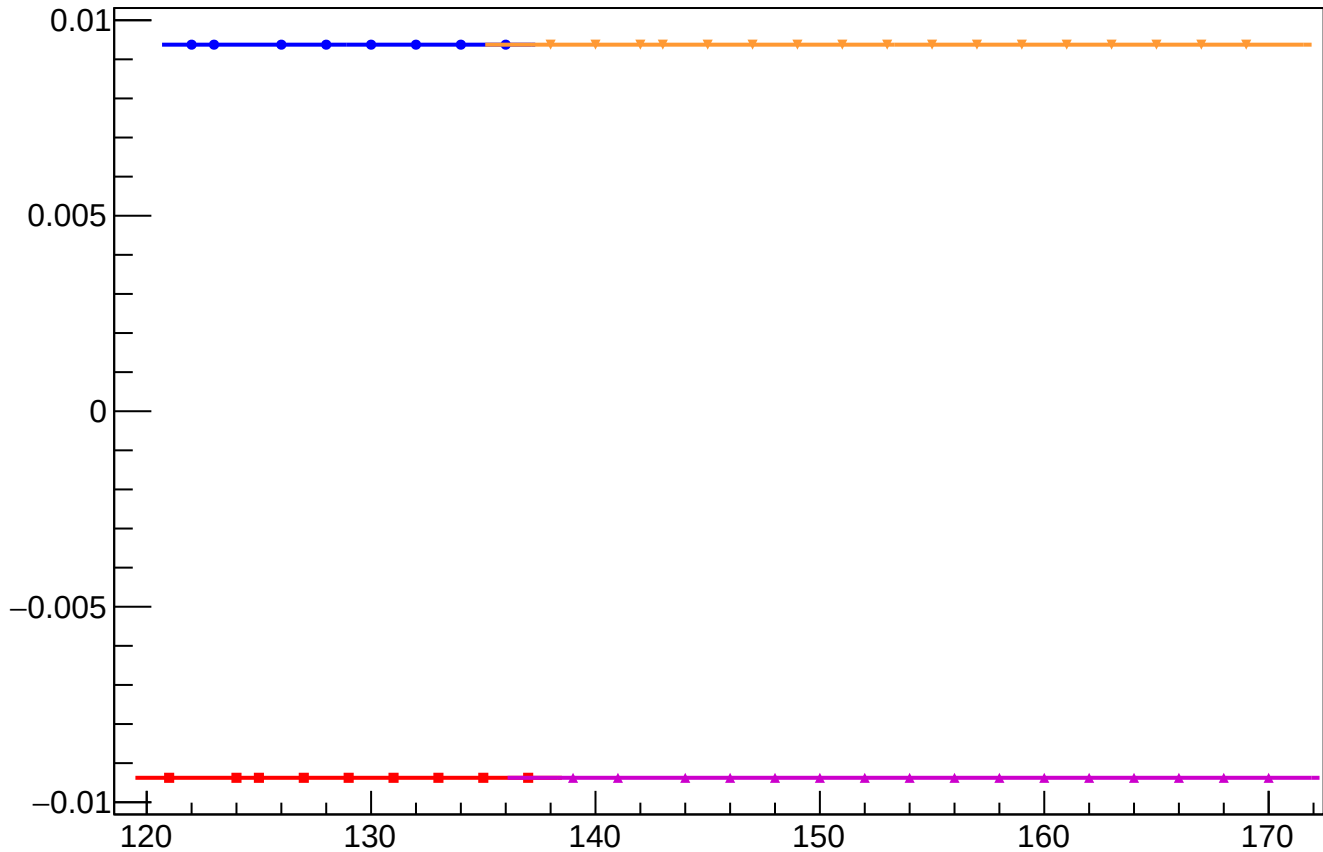
Right: 34.023 +/- 0.000 χ^2/NDF : 6311333196839596

In: -568.200 +/- 0.000 χ^2/NDF : 1033883964631431

Out: 596.446 +/- 0.000 χ^2/NDF : 9819714582713539

All: 14.658 +/- 0.000 χ^2/NDF : 3124373517793

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.0/7

Left Out: 0.009+/-0.000 χ^2/NDF : 0.1/16

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/8

Left In: -0.009+/-0.000 χ^2/NDF : 0.1/15

Left: 0.000+/-0.000 χ^2/NDF : 229195968534316872

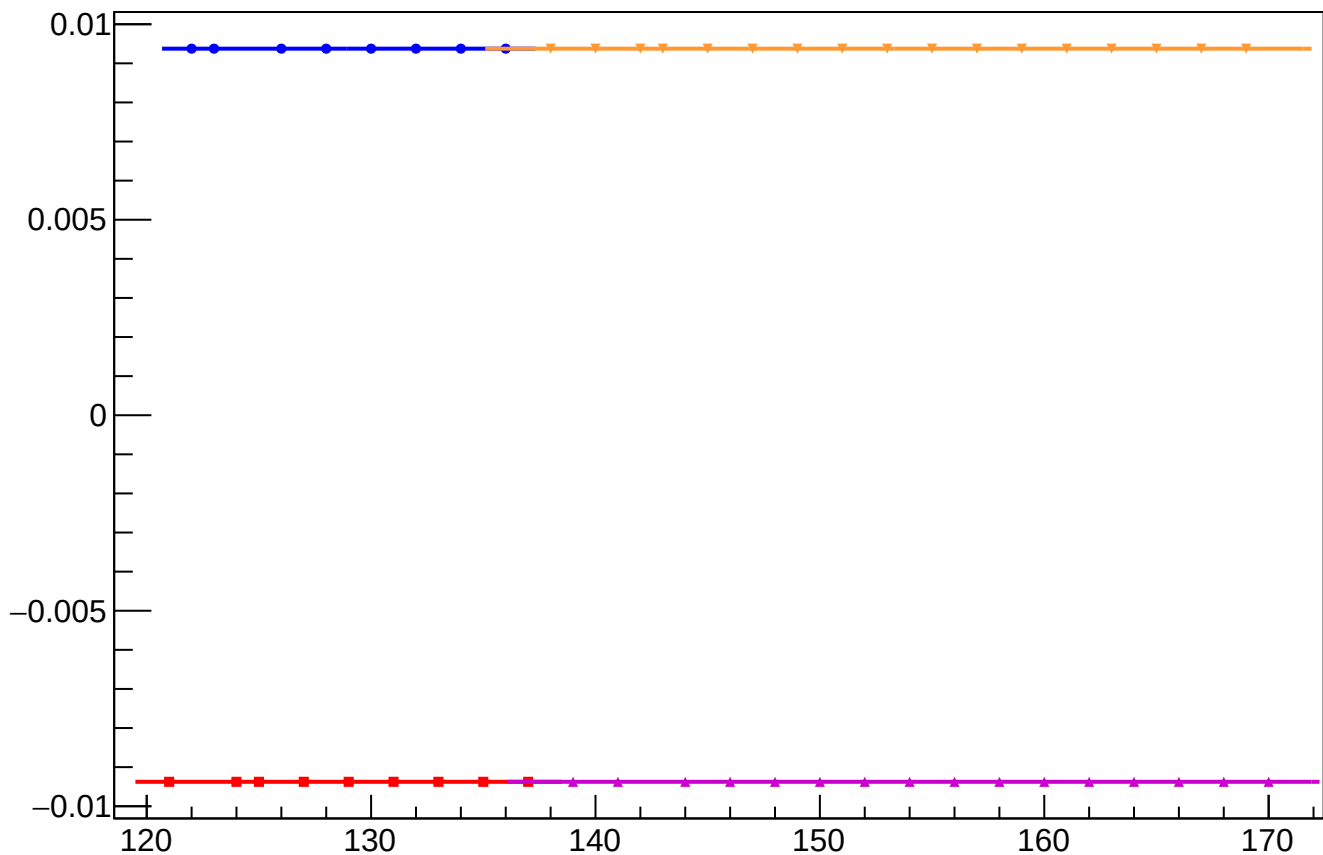
Right: 0.000+/-0.000 χ^2/NDF : 58025364031769994

In: -0.005+/-0.000 χ^2/NDF : 950536302051436857

Out: 0.006+/-0.000 χ^2/NDF : 902808631952932241

All: 0.000+/-0.000 χ^2/NDF : 28724989962526

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.0/7

Left Out: 0.009+/-0.000 χ^2/NDF : 0.1/16

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/8

Left In: -0.009+/-0.000 χ^2/NDF : 0.1/15

Left: 0.000+/-0.000 χ^2/NDF : 229195968534316872

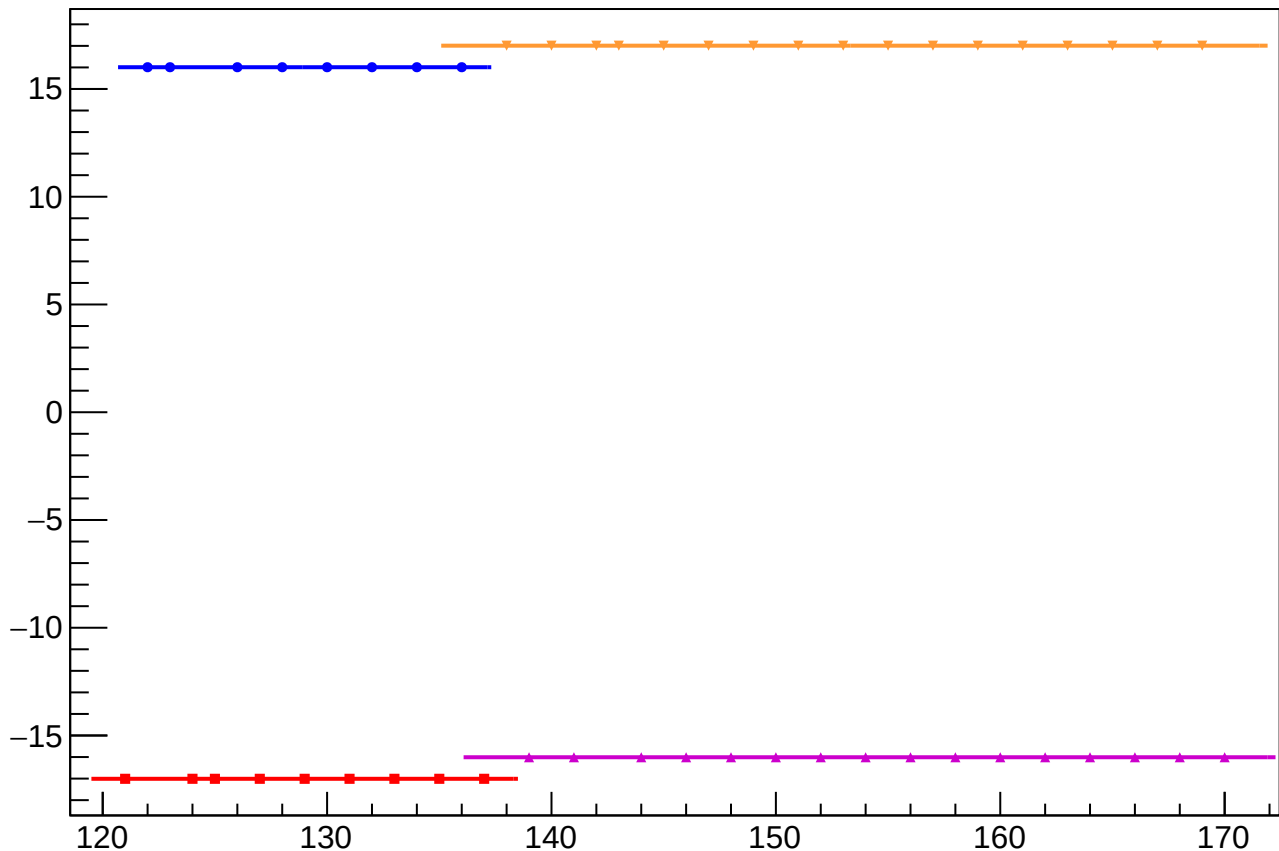
Right: 0.000+/-0.000 χ^2/NDF : 58025364031769994

In: -0.005+/-0.000 χ^2/NDF : 950536302051436857

Out: 0.006+/-0.000 χ^2/NDF : 902808631952932241

All: 0.000+/-0.000 χ^2/NDF : 28724989962526

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 30506.8/7

Left Out: 17.009+/-0.000 χ^2/NDF : 19580037949613641929064448.0/16

Right Out: -17.009+/-0.000 χ^2/NDF : 8333578329558812540796928.0/8

Left In: -16.009+/-0.000 χ^2/NDF : 125624078065520206675968.0/15

Left: 0.609+/-0.000 χ^2/NDF : 657378908584954601

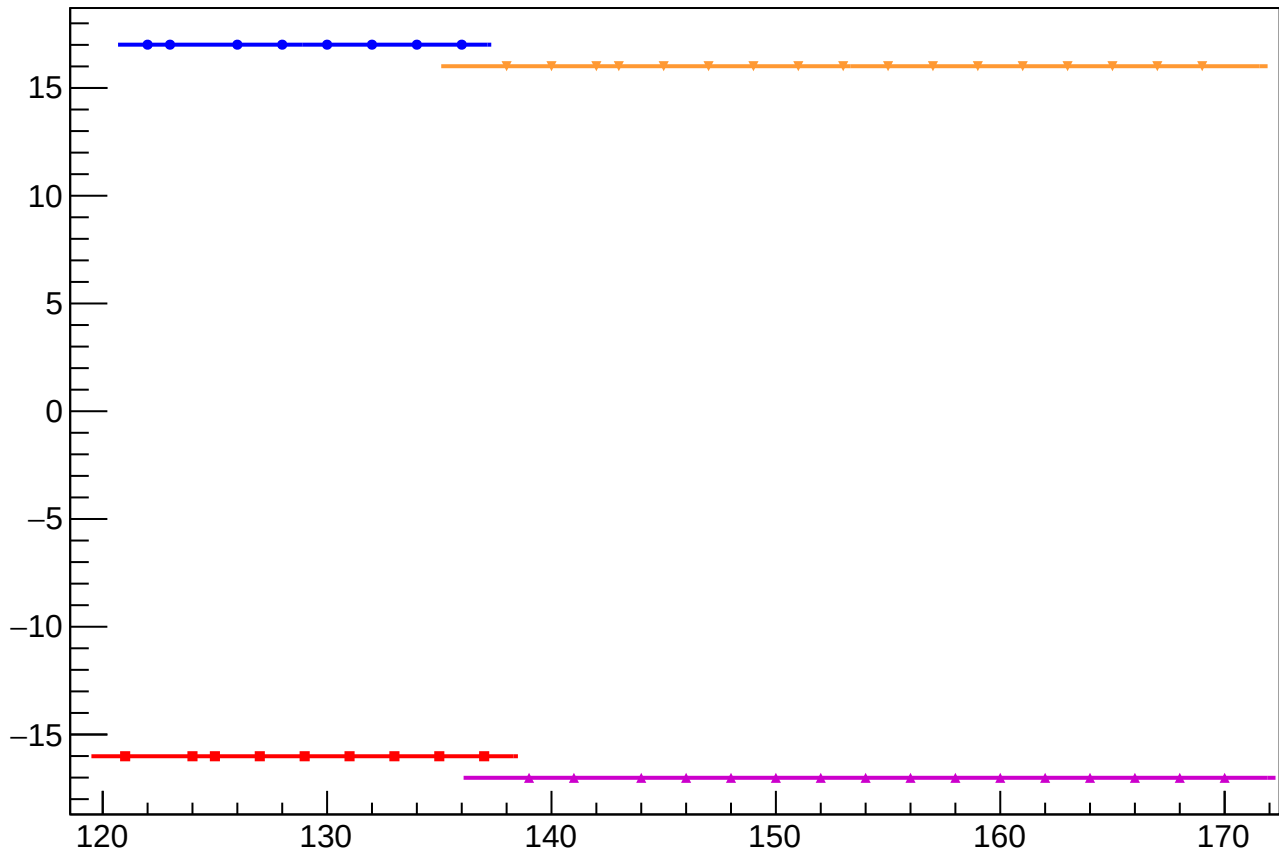
Right: -0.126+/-0.000 χ^2/NDF : 1683539334964133

In: -9.326+/-0.000 χ^2/NDF : 256346092109296305

Out: 10.232+/-0.000 χ^2/NDF : 27986989240223817

All: 0.459+/-0.000 χ^2/NDF : 82599888370752

IGL1I00OD16_16_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 76109.3/7

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 51042.5/16

Right Out: -16.009 $\pm$ 0.000 χ^2 /NDF: 17859.8/8

Left In: -17.009 $\pm$ 0.000 χ^2 /NDF: 112879853041586175737856.0/15

Left: -0.257 $\pm$ 0.000 χ^2 /NDF: 70305076076992059

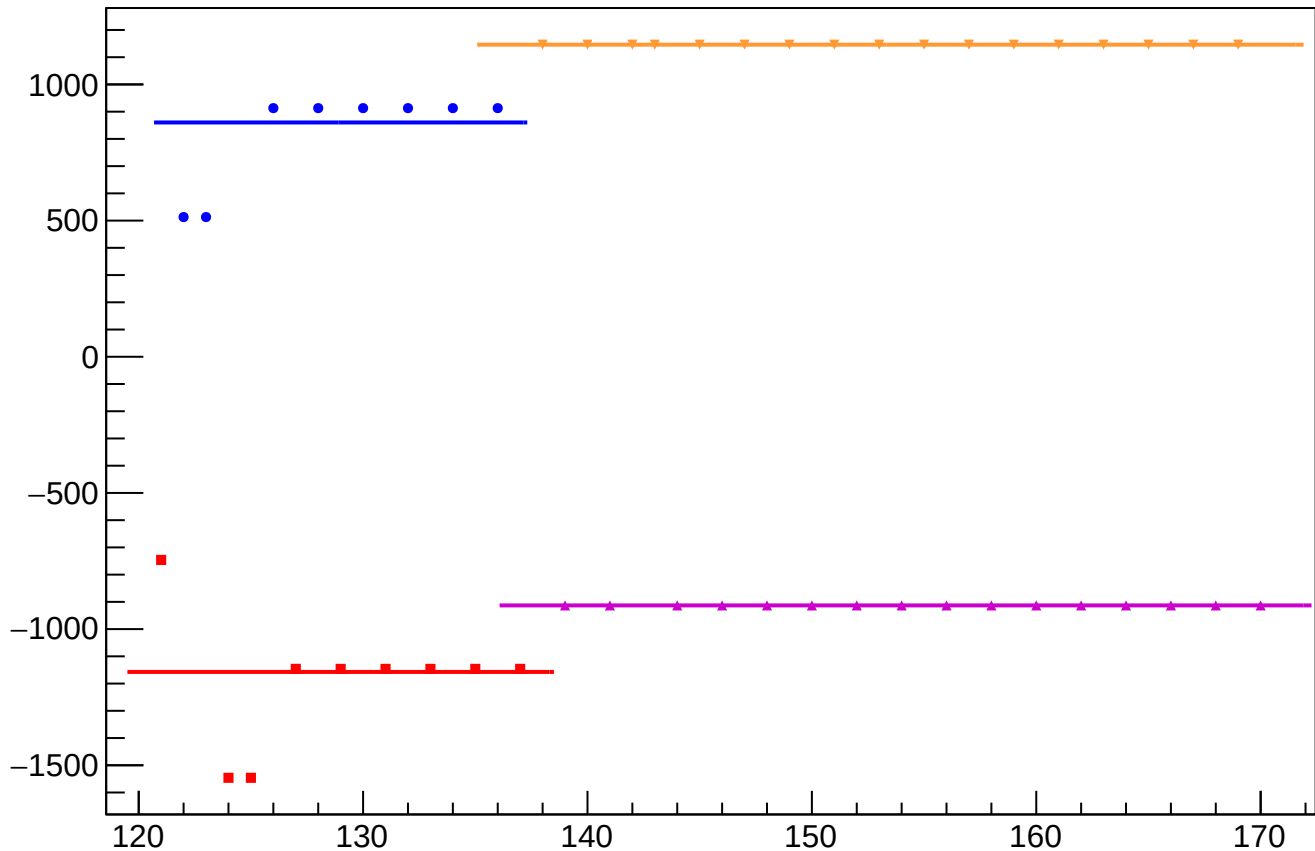
Right: 1.074 $\pm$ 0.000 χ^2 /NDF: 17994367493156690

In: -9.796 $\pm$ 0.000 χ^2 /NDF: 311870236610661223

Out: 9.735 $\pm$ 0.000 χ^2 /NDF: 262956963146379150

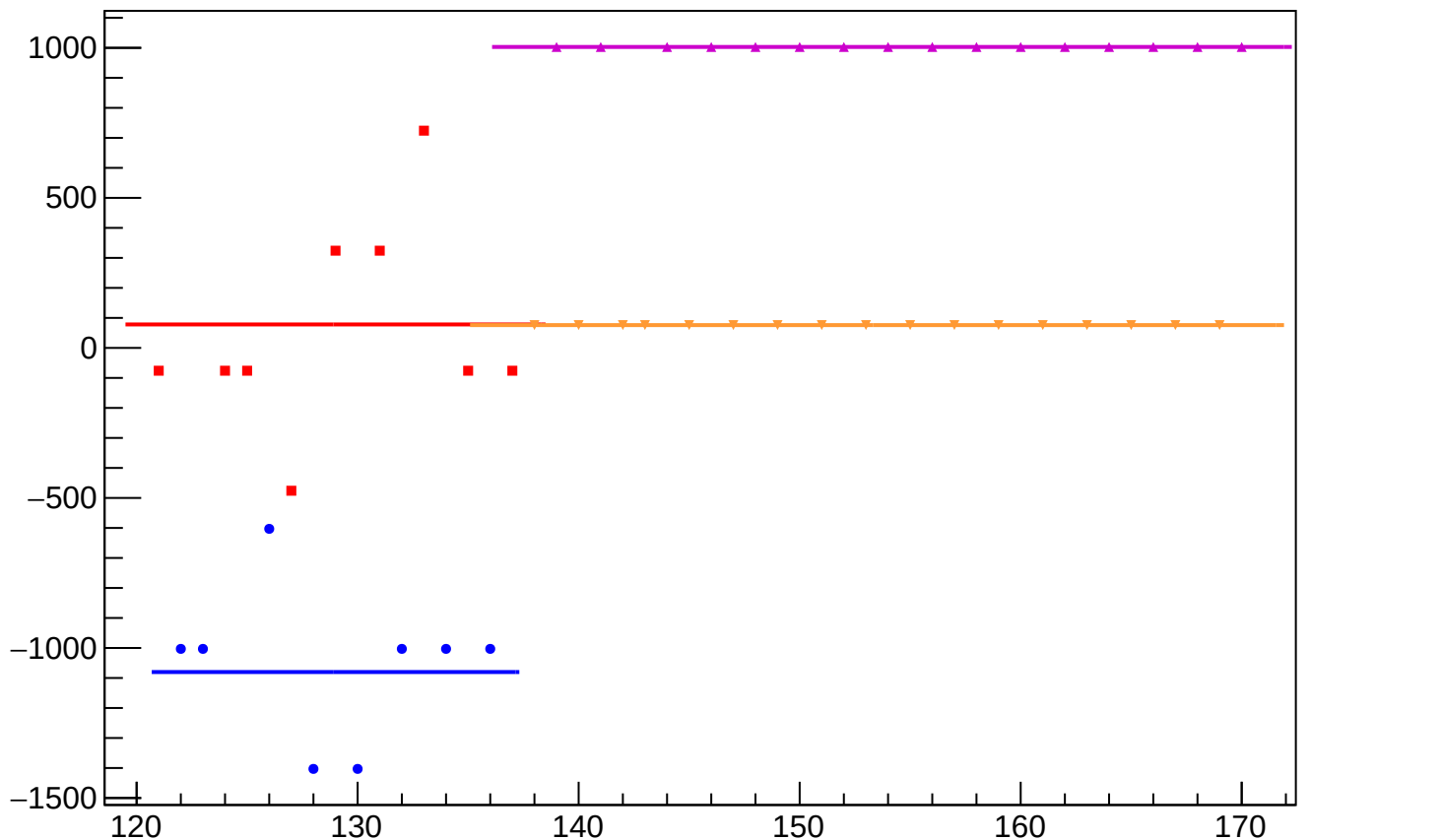
All: 0.015 $\pm$ 0.000 χ^2 /NDF: 8839270239363

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Left: 126.772+/-0.000 χ^2/NDF : 2763882284944979
 Right In: 860.361+/-0.000 χ^2/NDF : 6252693455178703850651720460594577408.0/7
 Left Out: 1146.011+/-0.000 χ^2/NDF : 4434849811684023598986559488.0/16
 Right Out: -1157.295+/-0.000 χ^2/NDF : 13880040120623316310083946144856014848.0/8
 Left In: -912.995+/-0.000 χ^2/NDF : 18160117649840669346108538880.0/15
 All: 78.216+/-0.000 χ^2/NDF : 3486331934646

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Left: 534.880+/-0.000 χ^2/NDF : 5602007444270070
 Right In: -1080.182+/-0.000 χ^2/NDF : 21641787691490496475350584298794123264.0/7
 Left Out: 76.011+/-0.000 χ^2/NDF : 9889470438490259043372761088.0/16
 Right Out: 78.224+/-0.000 χ^2/NDF : 39611265375063350144036471826150326272.0/8
 Left In: 1002.990+/-0.000 χ^2/NDF : 1972254072153440325860327424.0/15
 All: 321.351+/-0.000 χ^2/NDF : 143100930078