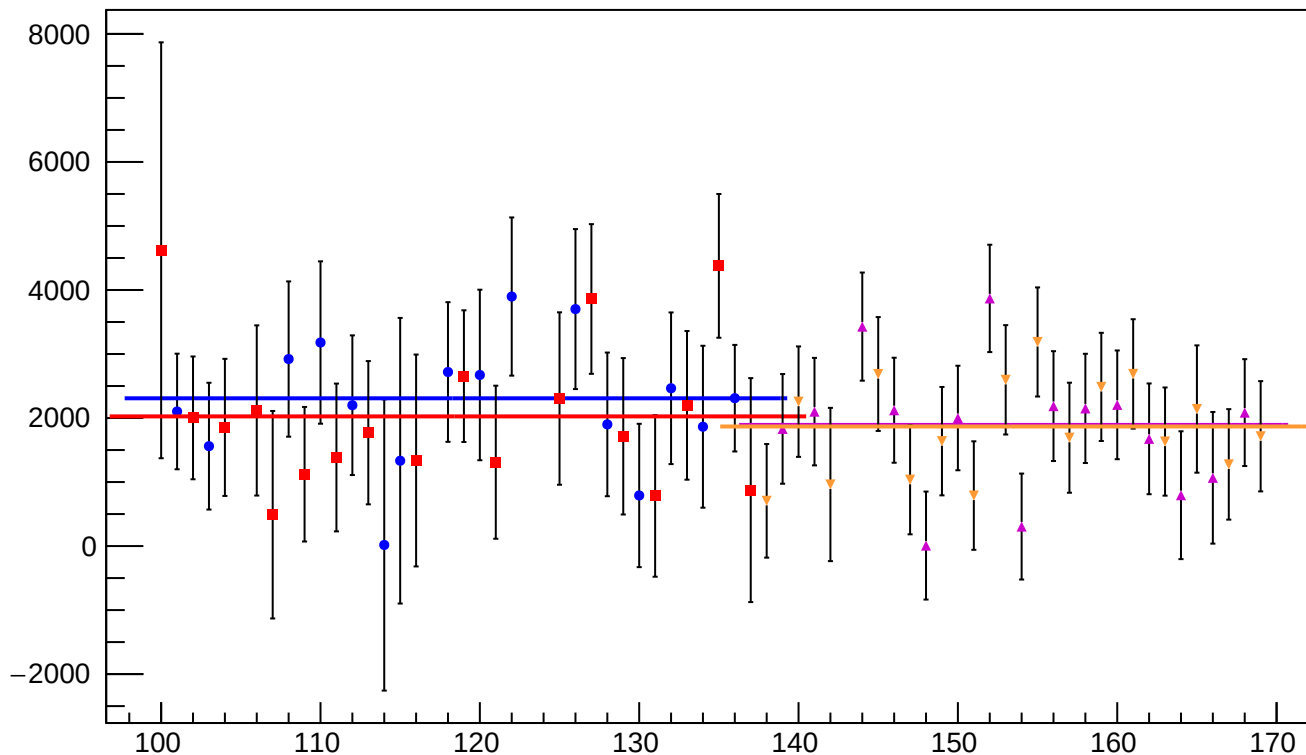


reg_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2308.155+/-290.431

χ^2/NDF : 7.8/15

Left Out: 1867.804+/-219.708

χ^2/NDF : 11.3/15

Right Out: 2025.627+/-289.797

χ^2/NDF : 11.9/17

Left In: 1892.367+/-221.962

χ^2/NDF : 20.0/14

Left: 1879.960+/-156.148

χ^2/NDF : 31.3/30

Right: 2166.582+/-205.141

χ^2/NDF : 20.2/33

In: 2045.675+/-176.356

χ^2/NDF : 29.1/30

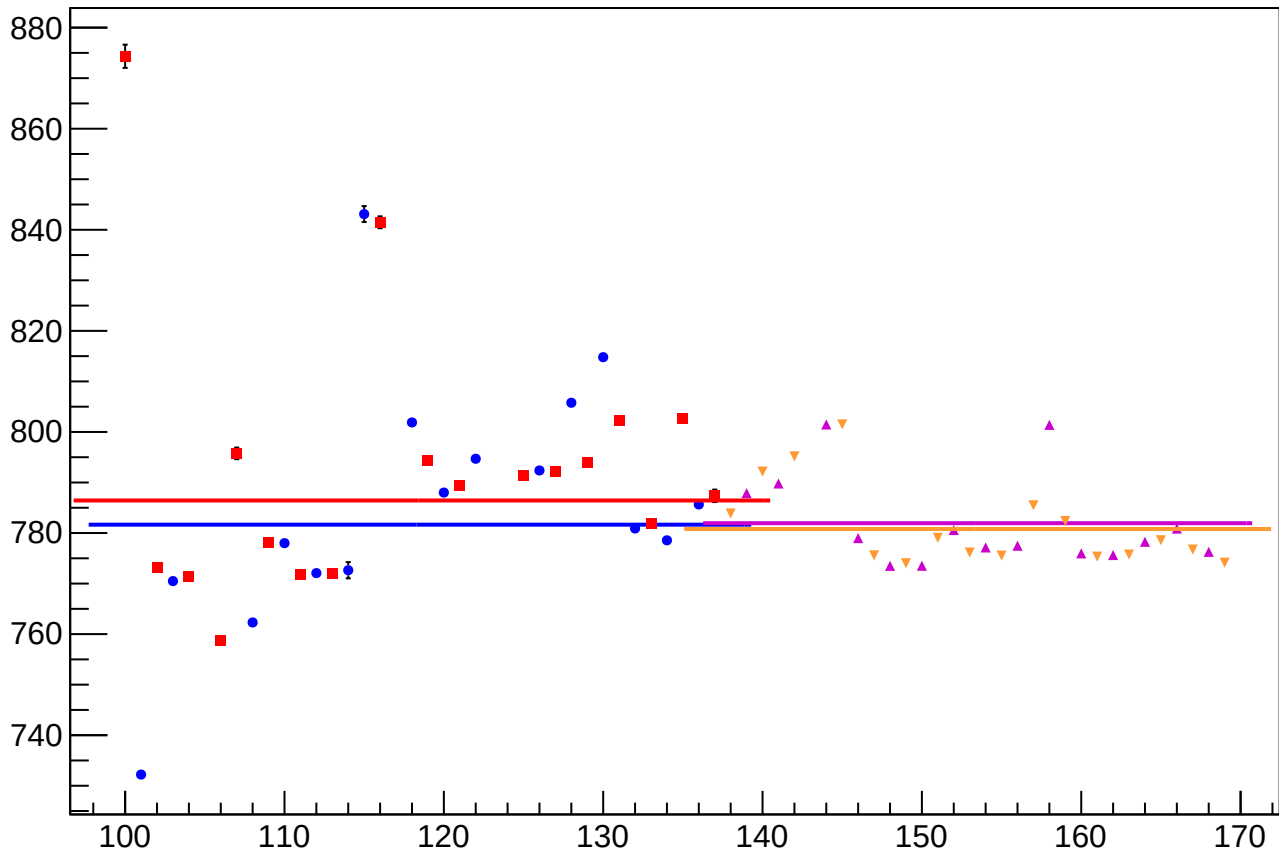
Out: 1925.408+/-175.080

χ^2/NDF : 23.4/33

All: 1985.105+/-124.249

χ^2/NDF : 52.7/64

reg_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 781.654 $\pm$ 0.205 χ^2 /NDF: 12319.0/15

Left Out: 780.796 $\pm$ 0.155 χ^2 /NDF: 2482.2/15

Right Out: 786.443 $\pm$ 0.205 χ^2 /NDF: 7201.6/17

Left In: 781.949 $\pm$ 0.157 χ^2 /NDF: 3272.1/14

Left: 781.367 $\pm$ 0.110 χ^2 /NDF: 5781.5/30

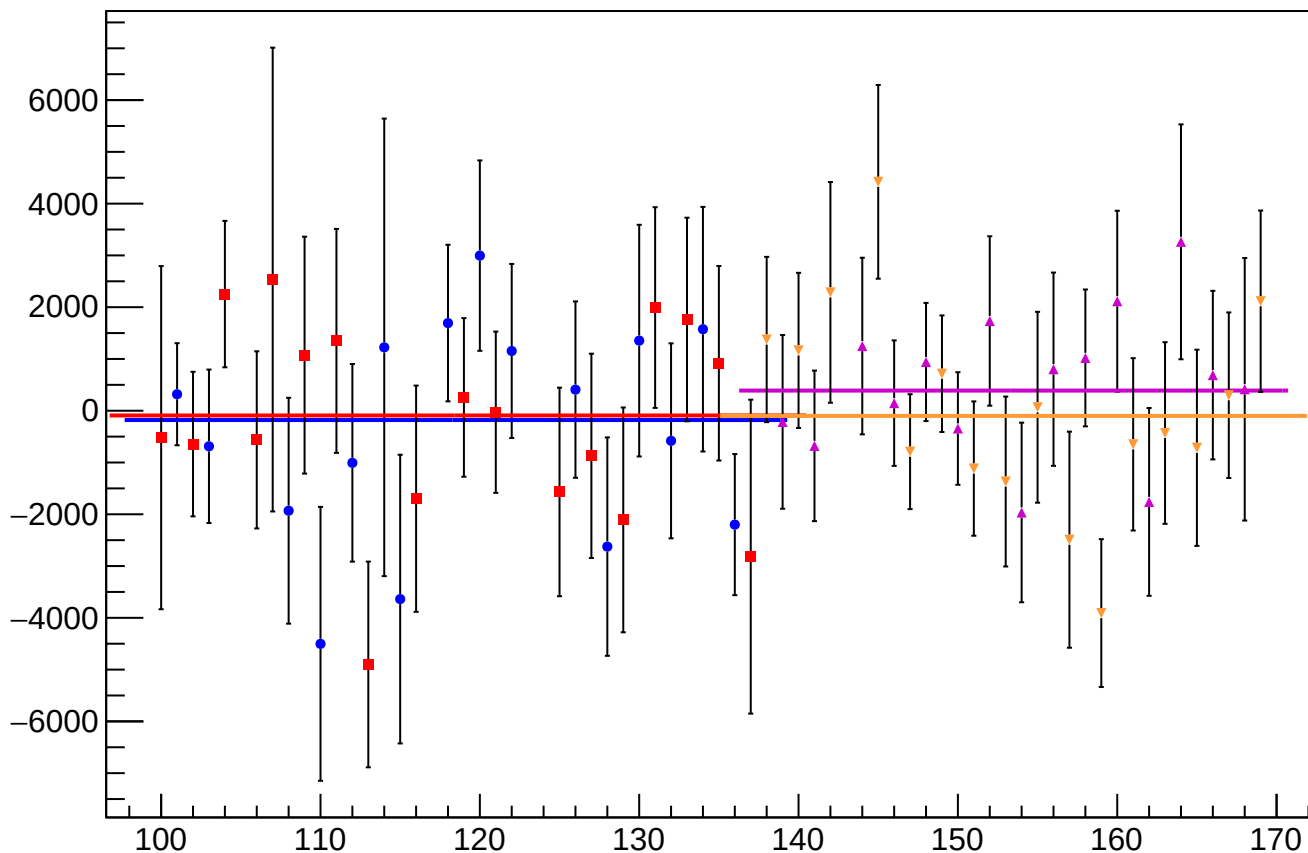
Right: 784.054 $\pm$ 0.145 χ^2 /NDF: 19793.2/33

In: 781.840 $\pm$ 0.125 χ^2 /NDF: 15592.4/30

Out: 782.857 $\pm$ 0.124 χ^2 /NDF: 10166.1/33

All: 782.352 $\pm$ 0.088 χ^2 /NDF: 25792.0/64

asym_us_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -179.929 ± 440.772 $\chi^2/\text{NDF}: 15.4/15$

Left Out: -99.764 ± 389.039 $\chi^2/\text{NDF}: 21.1/15$

Right Out: -91.288 ± 454.811 $\chi^2/\text{NDF}: 15.2/17$

Left In: 389.389 ± 395.556 $\chi^2/\text{NDF}: 8.5/14$

Left: 140.750 ± 277.367 $\chi^2/\text{NDF}: 30.4/30$

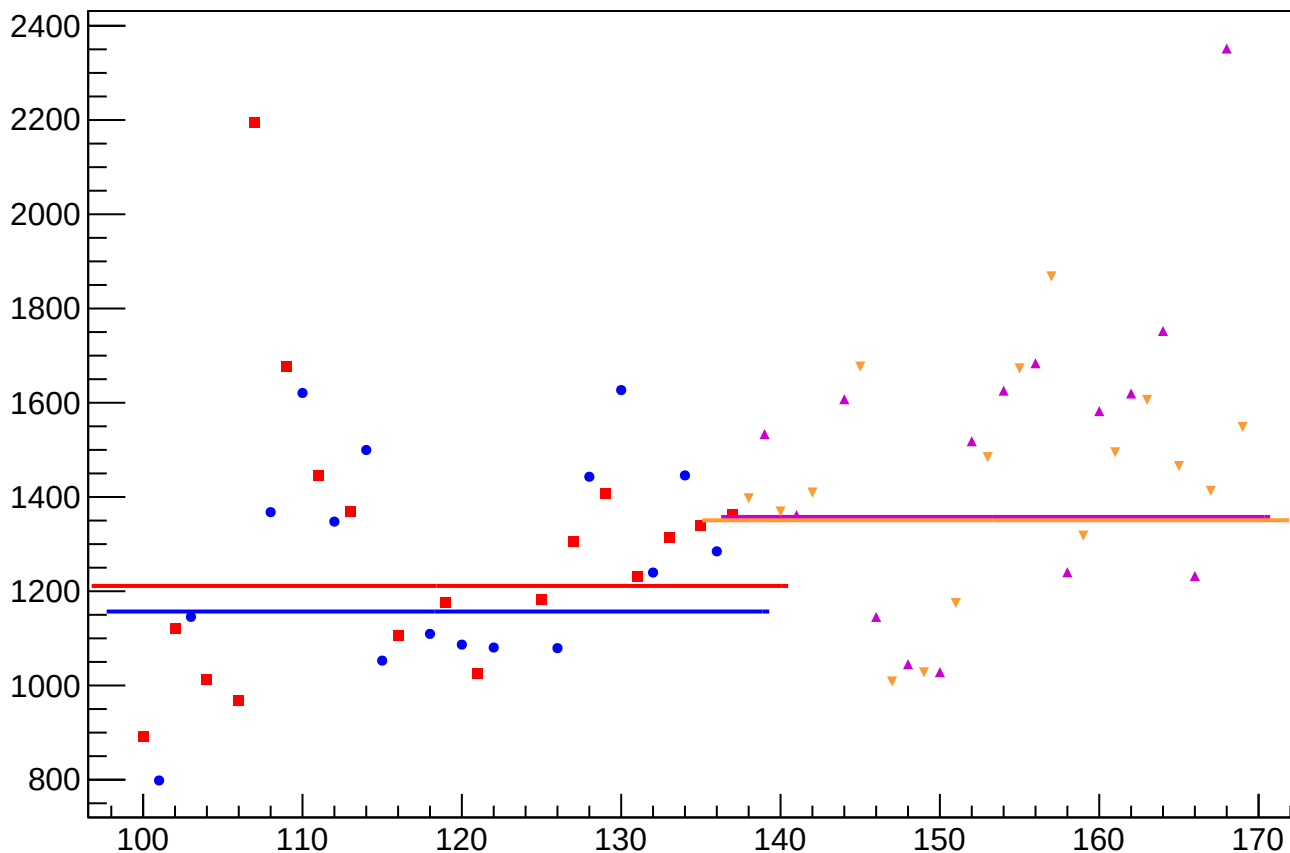
Right: -136.998 ± 316.519 $\chi^2/\text{NDF}: 30.6/33$

In: 135.420 ± 294.392 $\chi^2/\text{NDF}: 24.8/30$

Out: -96.183 ± 295.637 $\chi^2/\text{NDF}: 36.3/33$

All: 20.107 ± 208.605 $\chi^2/\text{NDF}: 61.4/64$

asym_us_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1156.948 $\pm$ 0.312 χ^2 /NDF: 569119.8/15

Left Out: 1350.531 $\pm$ 0.275 χ^2 /NDF: 747508.3/15

Right Out: 1211.264 $\pm$ 0.322 χ^2 /NDF: 397714.5/17

Left In: 1357.712 $\pm$ 0.280 χ^2 /NDF: 1058340.1/14

Left: 1354.062 $\pm$ 0.196 χ^2 /NDF: 1806183.4/30

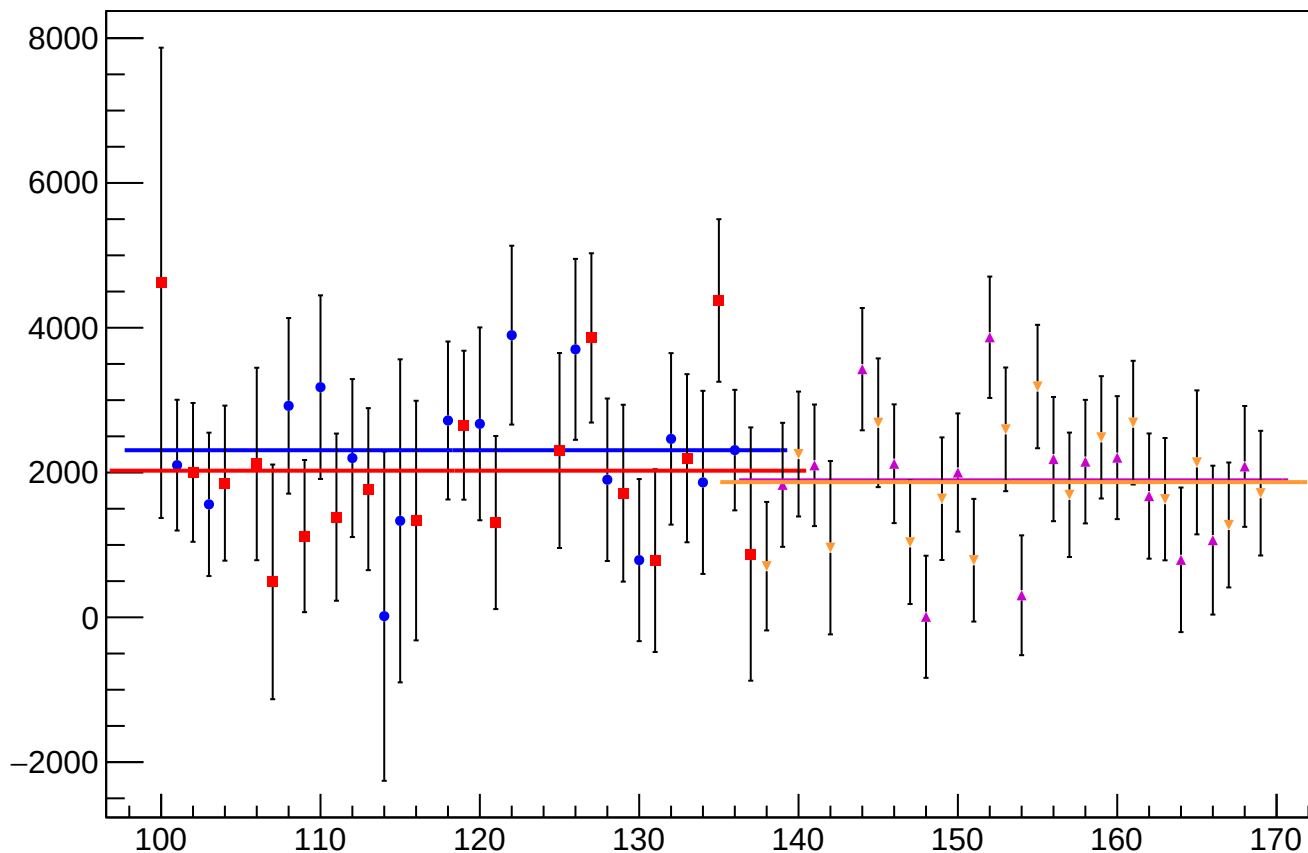
Right: 1183.255 $\pm$ 0.224 χ^2 /NDF: 981543.7/33

In: 1268.153 $\pm$ 0.208 χ^2 /NDF: 1857291.7/30

Out: 1291.687 $\pm$ 0.209 χ^2 /NDF: 1253514.9/33

All: 1279.870 $\pm$ 0.148 χ^2 /NDF: 3117170.3/64

cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2308.155 $\pm$ 290.431 χ^2/NDF : 7.8/15

Left Out: 1867.804 $\pm$ 219.708 χ^2/NDF : 11.3/15

Right Out: 2025.627 $\pm$ 289.797 χ^2/NDF : 11.9/17

Left In: 1892.367 $\pm$ 221.962 χ^2/NDF : 20.0/14

Left: 1879.960 $\pm$ 156.148 χ^2/NDF : 31.3/30

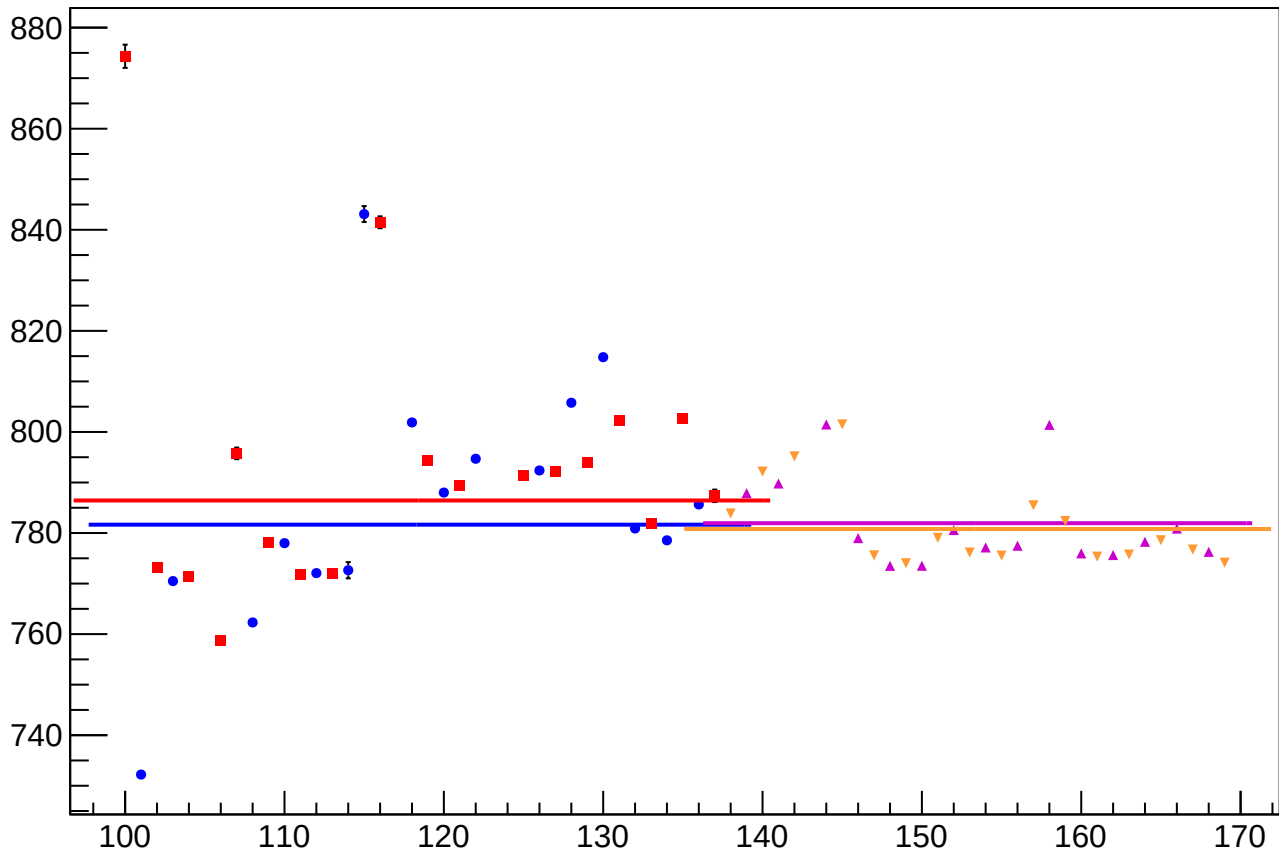
Right: 2166.582 $\pm$ 205.141 χ^2/NDF : 20.2/33

In: 2045.675 $\pm$ 176.356 χ^2/NDF : 29.1/30

Out: 1925.408 $\pm$ 175.080 χ^2/NDF : 23.4/33

All: 1985.105 $\pm$ 124.249 χ^2/NDF : 52.7/64

cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 781.654 $\pm$ 0.205 χ^2/NDF : 12319.0/15

Left Out: 780.796 $\pm$ 0.155 χ^2/NDF : 2482.2/15

Right Out: 786.443 $\pm$ 0.205 χ^2/NDF : 7201.6/17

Left In: 781.949 $\pm$ 0.157 χ^2/NDF : 3272.1/14

Left: 781.367 $\pm$ 0.110 χ^2/NDF : 5781.5/30

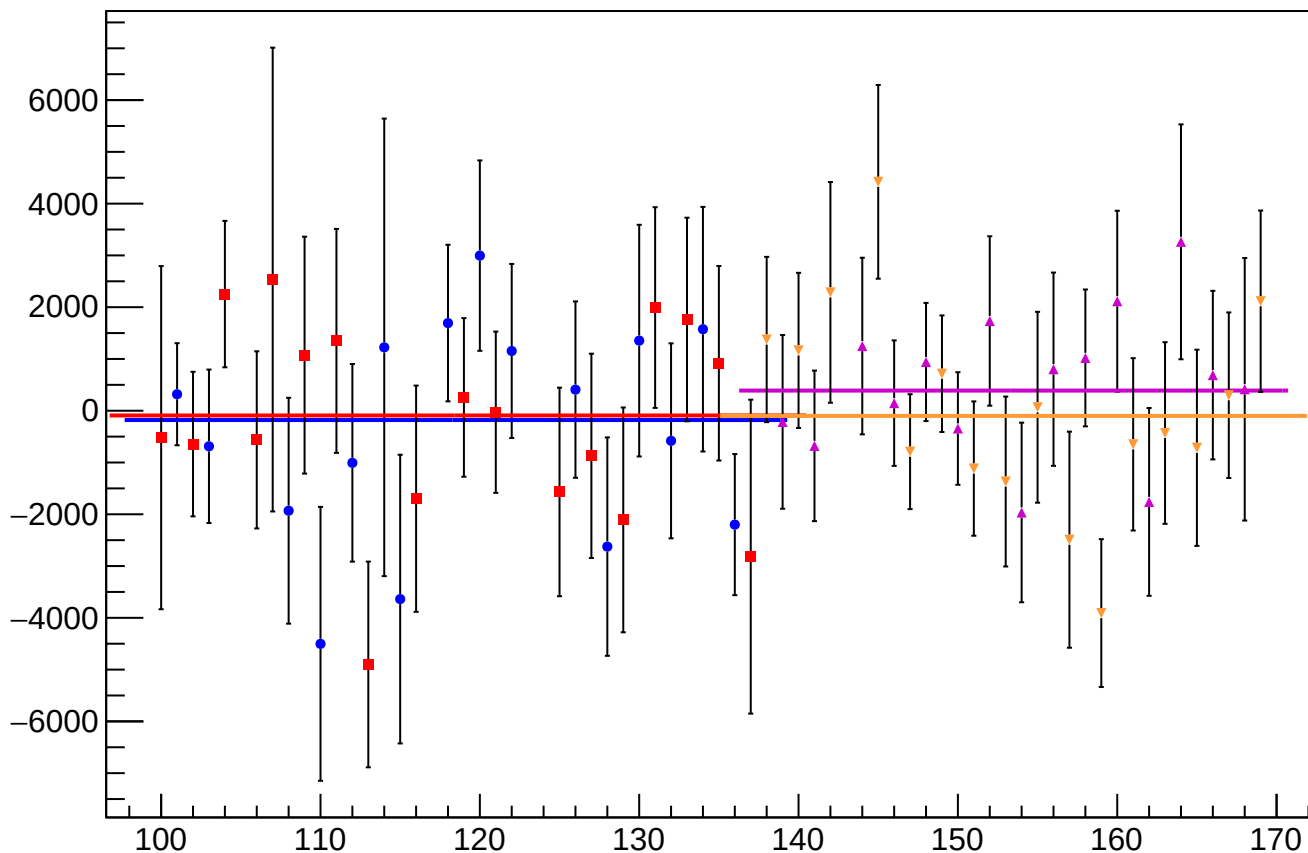
Right: 784.054 $\pm$ 0.145 χ^2/NDF : 19793.2/33

In: 781.840 $\pm$ 0.125 χ^2/NDF : 15592.4/30

Out: 782.857 $\pm$ 0.124 χ^2/NDF : 10166.1/33

All: 782.352 $\pm$ 0.088 χ^2/NDF : 25792.0/64

asym_us_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -179.929 ± 440.772 $\chi^2/\text{NDF}: 15.4/15$

Left Out: -99.764 ± 389.039 $\chi^2/\text{NDF}: 21.1/15$

Right Out: -91.288 ± 454.811 $\chi^2/\text{NDF}: 15.2/17$

Left In: 389.389 ± 395.556 $\chi^2/\text{NDF}: 8.5/14$

Left: 140.750 ± 277.367 $\chi^2/\text{NDF}: 30.4/30$

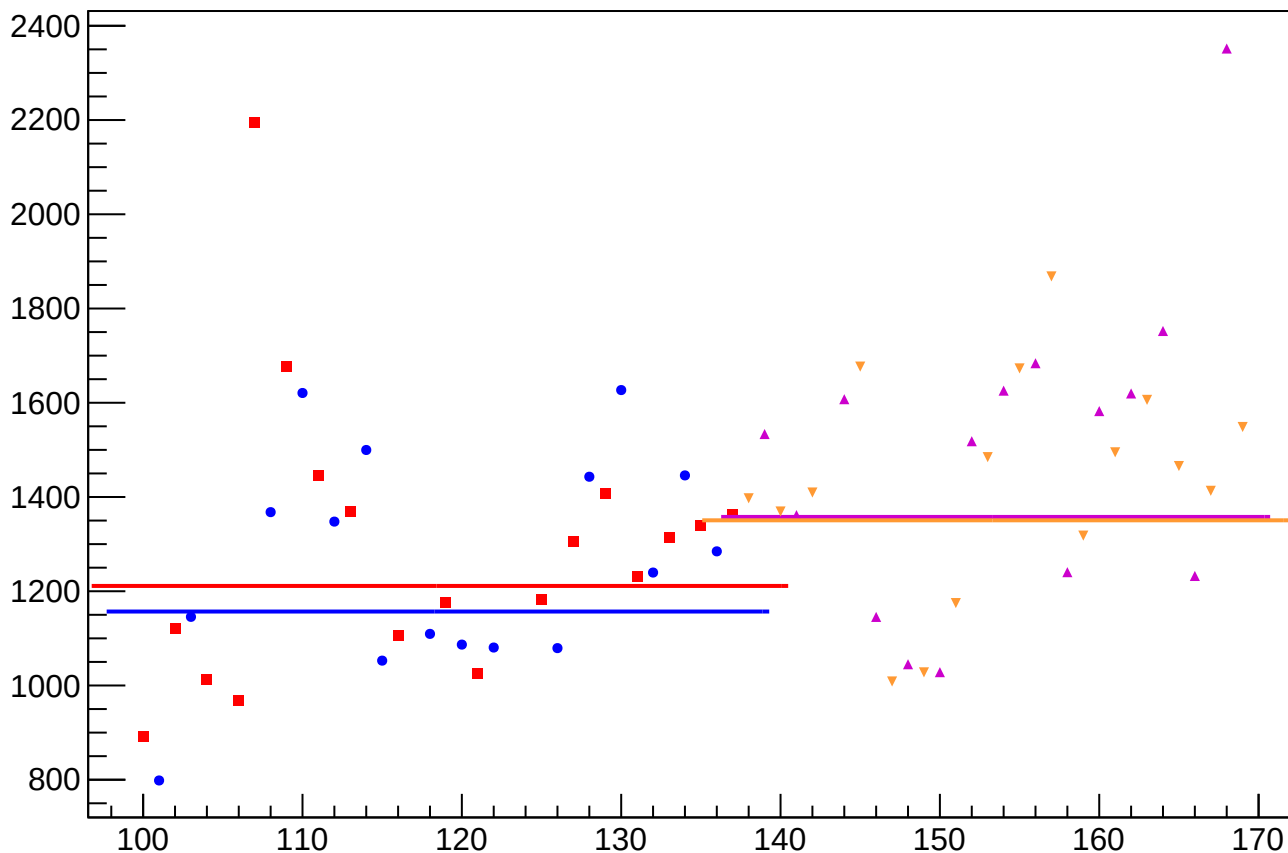
Right: -136.998 ± 316.519 $\chi^2/\text{NDF}: 30.6/33$

In: 135.420 ± 294.392 $\chi^2/\text{NDF}: 24.8/30$

Out: -96.183 ± 295.637 $\chi^2/\text{NDF}: 36.3/33$

All: 20.107 ± 208.605 $\chi^2/\text{NDF}: 61.4/64$

asym_us_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1156.948 $\pm$ 0.312 χ^2 /NDF: 569119.8/15

Left Out: 1350.531 $\pm$ 0.275 χ^2 /NDF: 747508.3/15

Right Out: 1211.264 $\pm$ 0.322 χ^2 /NDF: 397714.5/17

Left In: 1357.712 $\pm$ 0.280 χ^2 /NDF: 1058340.1/14

Left: 1354.062 $\pm$ 0.196 χ^2 /NDF: 1806183.4/30

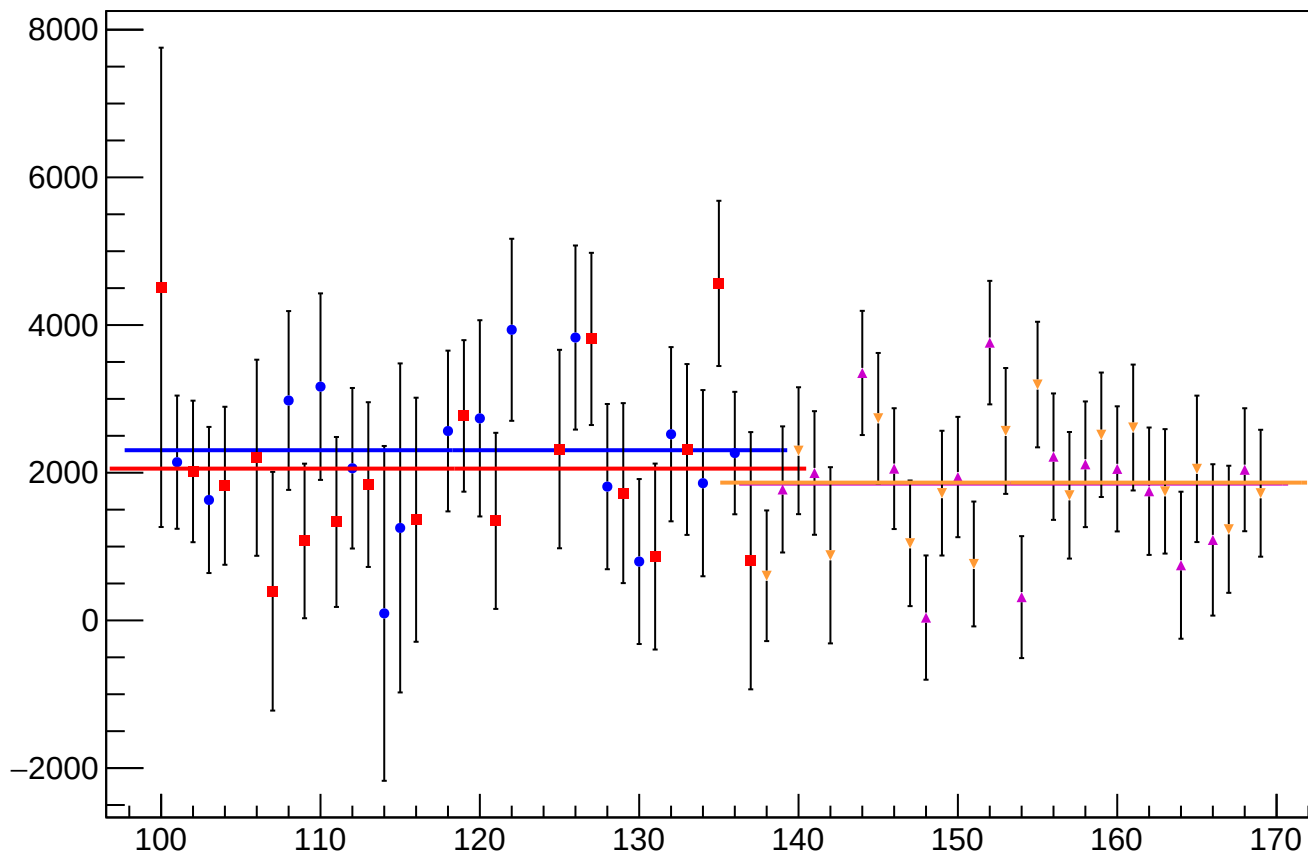
Right: 1183.255 $\pm$ 0.224 χ^2 /NDF: 981543.7/33

In: 1268.153 $\pm$ 0.208 χ^2 /NDF: 1857291.7/30

Out: 1291.687 $\pm$ 0.209 χ^2 /NDF: 1253514.9/33

All: 1279.870 $\pm$ 0.148 χ^2 /NDF: 3117170.3/64

overload_cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2304.852 $\pm$ 289.704 χ^2 /NDF: 8.1/15

Left Out: 1865.995 $\pm$ 219.126 χ^2 /NDF:11.7/15

Right Out: 2055.666 $\pm$ 289.090 χ^2 /NDF: 12.9/17

Left In: 1852.503 $\pm$ 221.380 χ^2 /NDF:18.8/14

Left: 1859.318 $\pm$ 155.736 χ^2 /NDF: 30.5/30

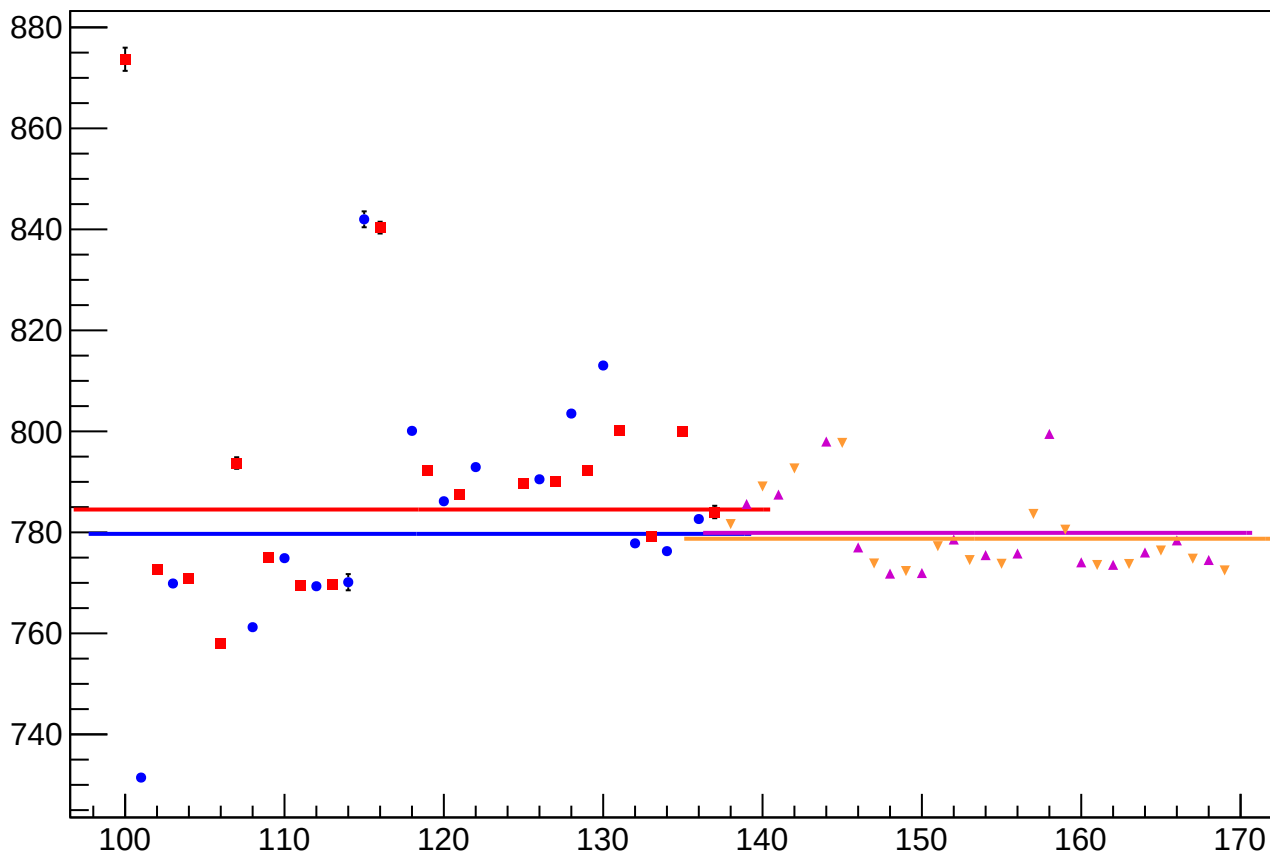
Right: 2179.995 $\pm$ 204.634 χ^2 /NDF: 21.3/33

In: 2019.267 $\pm$ 175.901 χ^2 /NDF:28.4/30

Out: 1935.205 $\pm$ 174.629 χ^2 /NDF:24.9/33

All: 1976.931 $\pm$ 123.929 χ^2 /NDF: 53.4/64

overload_cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 779.702 $\pm$ 0.205 χ^2 /NDF: 12060.2/15

Left Out: 778.737 $\pm$ 0.155 χ^2 /NDF: 2187.4/15

Right Out: 784.524 $\pm$ 0.204 χ^2 /NDF: 7160.0/17

Left In: 779.902 $\pm$ 0.157 χ^2 /NDF: 3065.4/14

Left: 779.314 $\pm$ 0.110 χ^2 /NDF: 5280.8/30

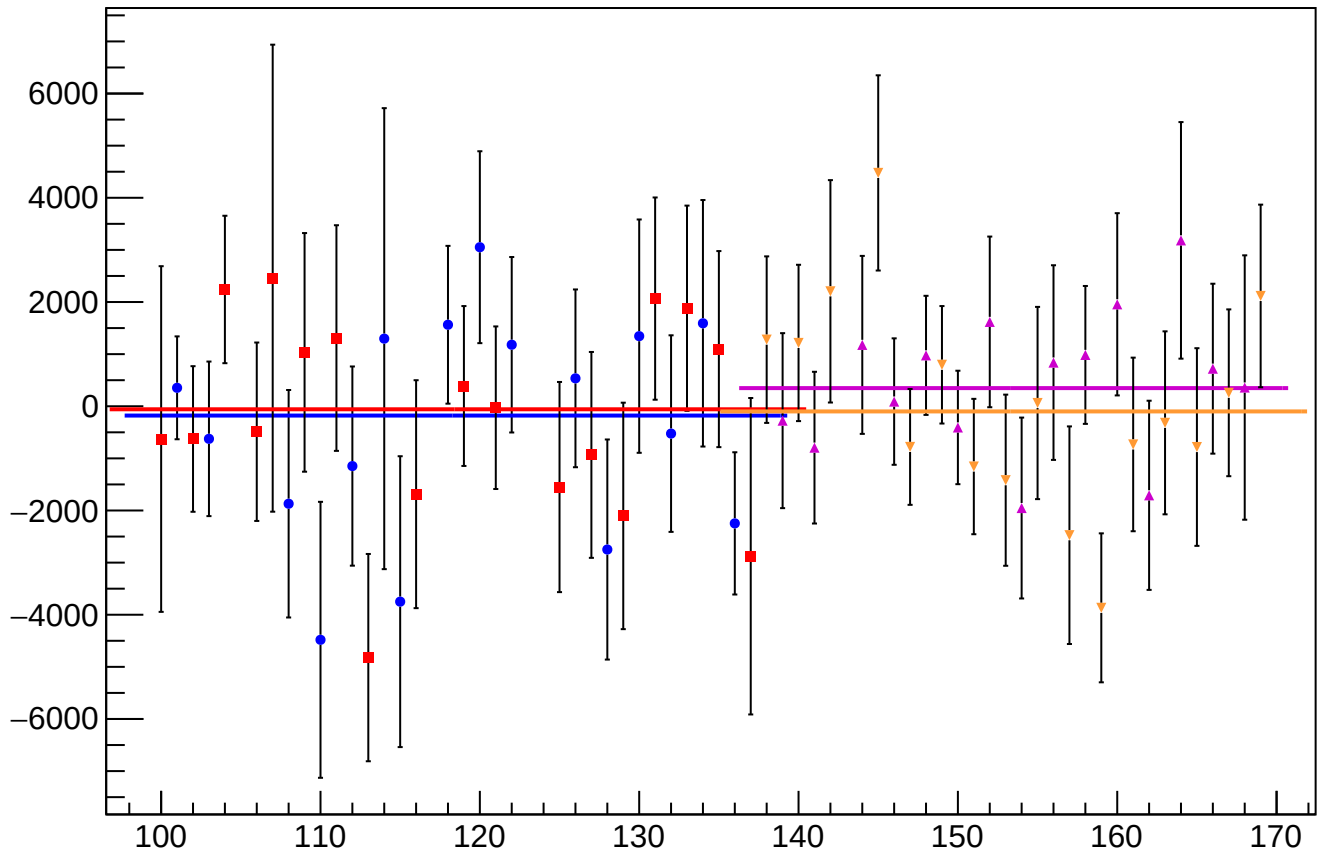
Right: 782.118 $\pm$ 0.145 χ^2 /NDF: 19498.0/33

In: 779.829 $\pm$ 0.124 χ^2 /NDF: 15126.2/30

Out: 780.849 $\pm$ 0.123 χ^2 /NDF: 9856.6/33

All: 780.342 $\pm$ 0.088 χ^2 /NDF: 25016.7/64

asym_us_avg_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: -178.457+/-441.218 χ^2/NDF : 15.7/15

Left Out: -99.112+/-389.405 χ^2/NDF : 21.2/15

Right Out: -58.040+/-455.216 χ^2/NDF : 15.3/17

Left In: 348.225+/-395.922 χ^2/NDF : 8.2/14

Left: 120.844+/-277.627 χ^2/NDF : 30.0/30

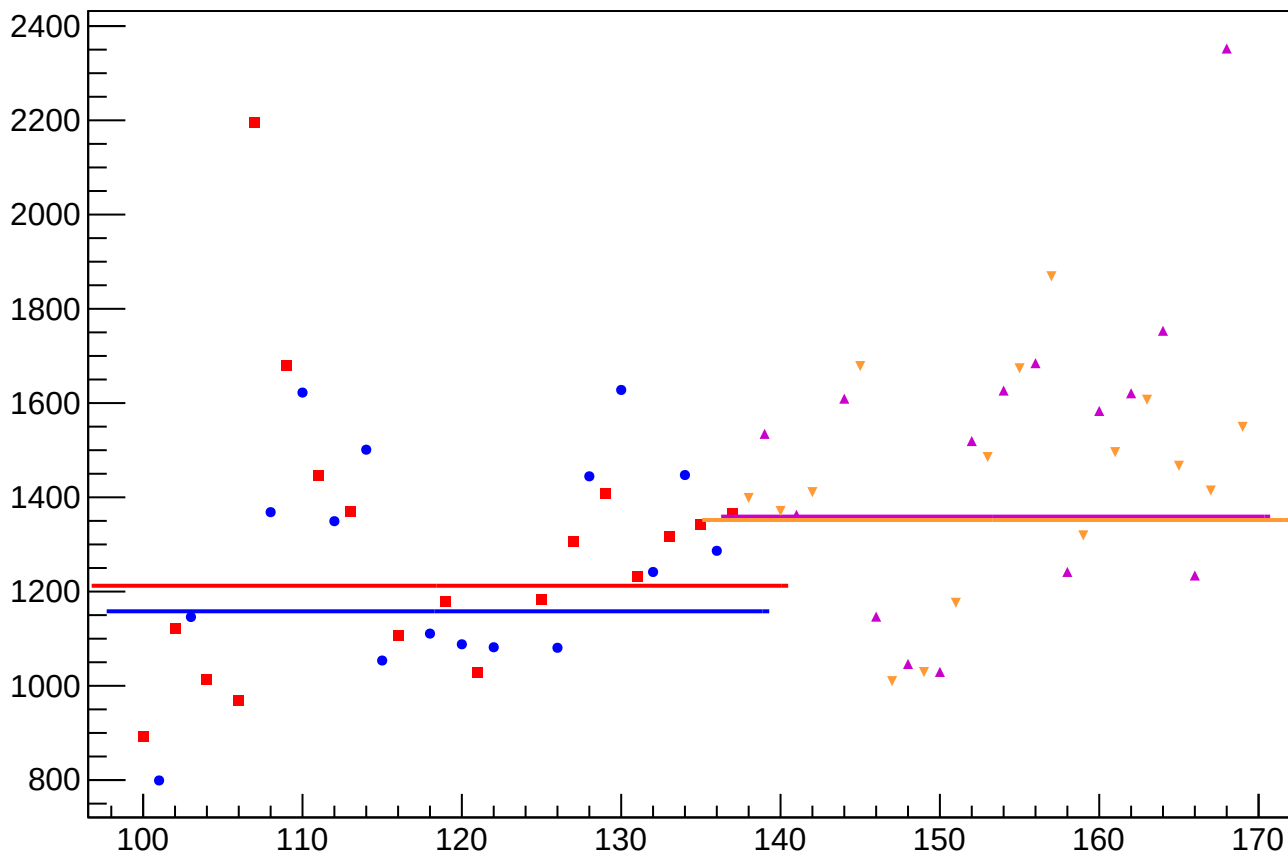
Right: -120.128+/-316.821 χ^2/NDF : 31.0/33

In: 113.298+/-294.676 χ^2/NDF : 24.7/30

Out: -81.757+/-295.909 χ^2/NDF : 36.4/33

All: 16.178+/-208.802 χ^2/NDF : 61.3/64

asym_us_avg_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 1158.134 $\pm$ 0.312 χ^2 /NDF: 569144.8/15

Left Out: 1351.883 $\pm$ 0.275 χ^2 /NDF: 745473.9/15

Right Out: 1212.347 $\pm$ 0.322 χ^2 /NDF: 397938.1/17

Left In: 1359.052 $\pm$ 0.280 χ^2 /NDF: 1055929.8/14

Left: 1355.408 $\pm$ 0.196 χ^2 /NDF: 1801736.9/30

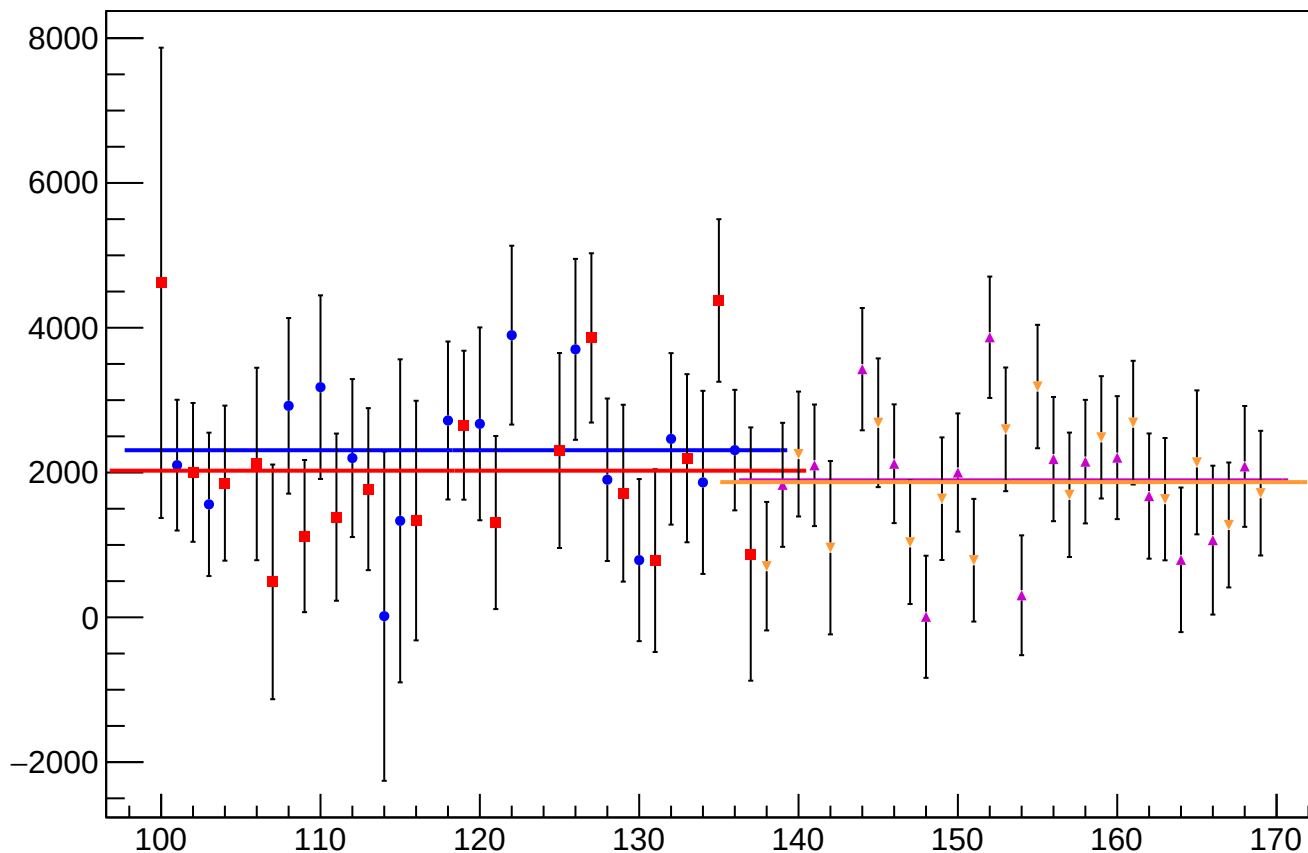
Right: 1184.394 $\pm$ 0.224 χ^2 /NDF: 981708.9/33

In: 1269.432 $\pm$ 0.208 χ^2 /NDF: 1854812.7/30

Out: 1292.922 $\pm$ 0.209 χ^2 /NDF: 1251925.9/33

All: 1281.128 $\pm$ 0.148 χ^2 /NDF: 3113066.3/64

eigen_cor_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2308.155+/-290.431 χ^2/NDF : 7.8/15

Left Out: 1867.804+/-219.708 χ^2/NDF : 11.3/15

Right Out: 2025.627+/-289.797 χ^2/NDF : 11.9/17

Left In: 1892.367+/-221.962 χ^2/NDF : 20.0/14

Left: 1879.960+/-156.148 χ^2/NDF : 31.3/30

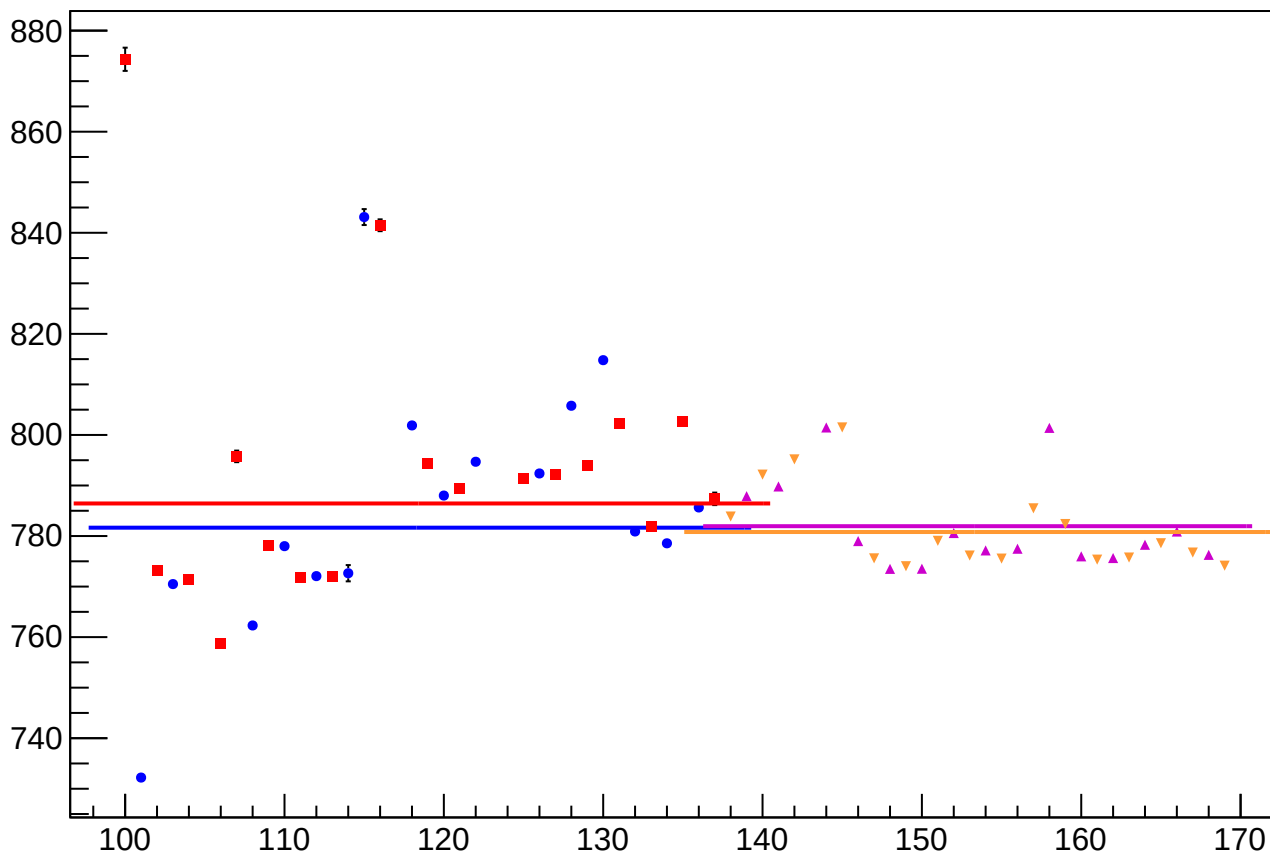
Right: 2166.582+/-205.141 χ^2/NDF : 20.2/33

In: 2045.675+/-176.356 χ^2/NDF : 29.1/30

Out: 1925.408+/-175.080 χ^2/NDF : 23.4/33

All: 1985.105+/-124.249 χ^2/NDF : 52.7/64

eigen_cor_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 781.654 $\pm$ 0.205 χ^2 /NDF: 12319.0/15

Left Out: 780.796 $\pm$ 0.155 χ^2 /NDF: 2482.2/15

Right Out: 786.443 $\pm$ 0.205 χ^2 /NDF: 7201.6/17

Left In: 781.949 $\pm$ 0.157 χ^2 /NDF: 3272.1/14

Left: 781.367 $\pm$ 0.110 χ^2 /NDF: 5781.5/30

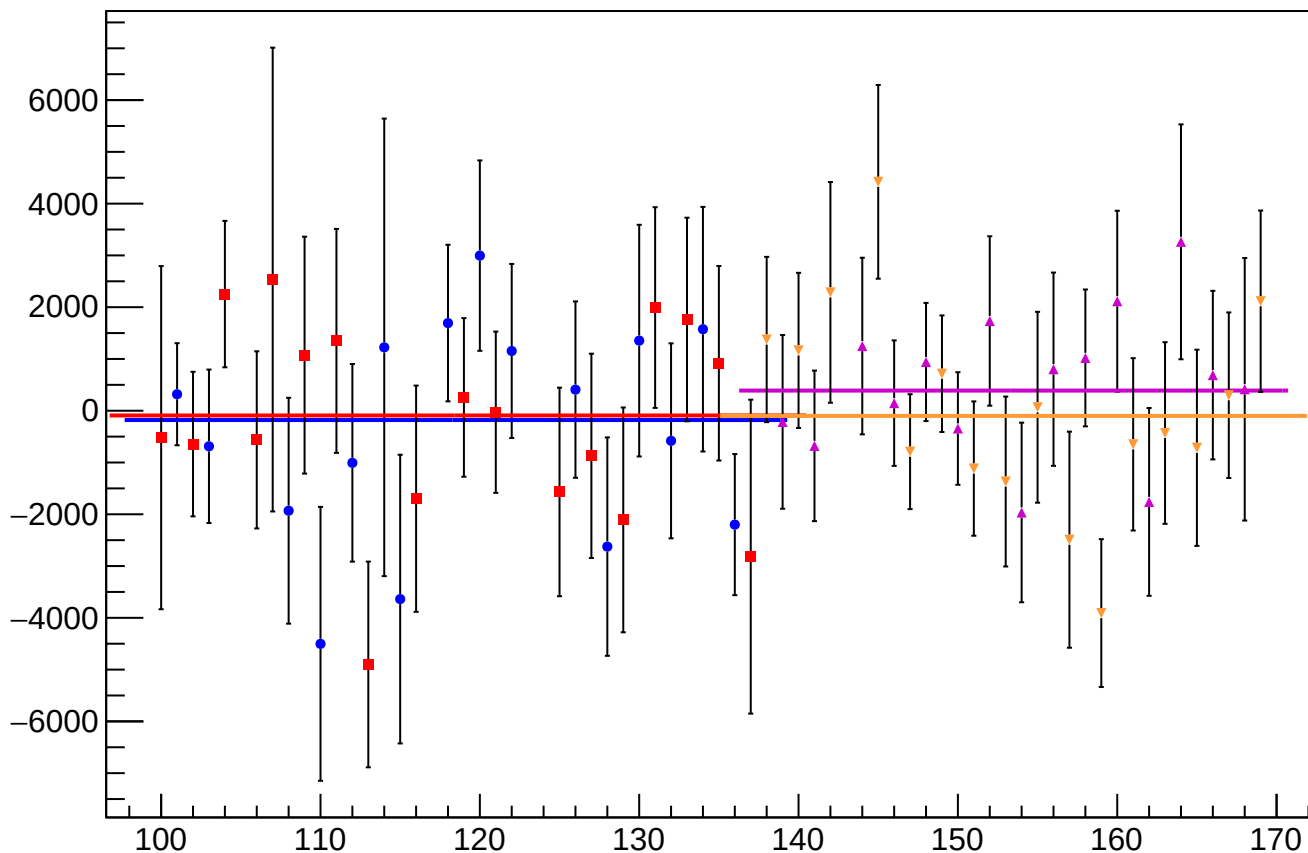
Right: 784.054 $\pm$ 0.145 χ^2 /NDF: 19793.2/33

In: 781.840 $\pm$ 0.125 χ^2 /NDF: 15592.4/30

Out: 782.857 $\pm$ 0.124 χ^2 /NDF: 10166.1/33

All: 782.352 $\pm$ 0.088 χ^2 /NDF: 25792.0/64

asym_us_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -179.929 ± 440.772 $\chi^2/\text{NDF}: 15.4/15$

Left Out: -99.764 ± 389.039 $\chi^2/\text{NDF}: 21.1/15$

Right Out: -91.288 ± 454.811 $\chi^2/\text{NDF}: 15.2/17$

Left In: 389.389 ± 395.556 $\chi^2/\text{NDF}: 8.5/14$

Left: 140.750 ± 277.367 $\chi^2/\text{NDF}: 30.4/30$

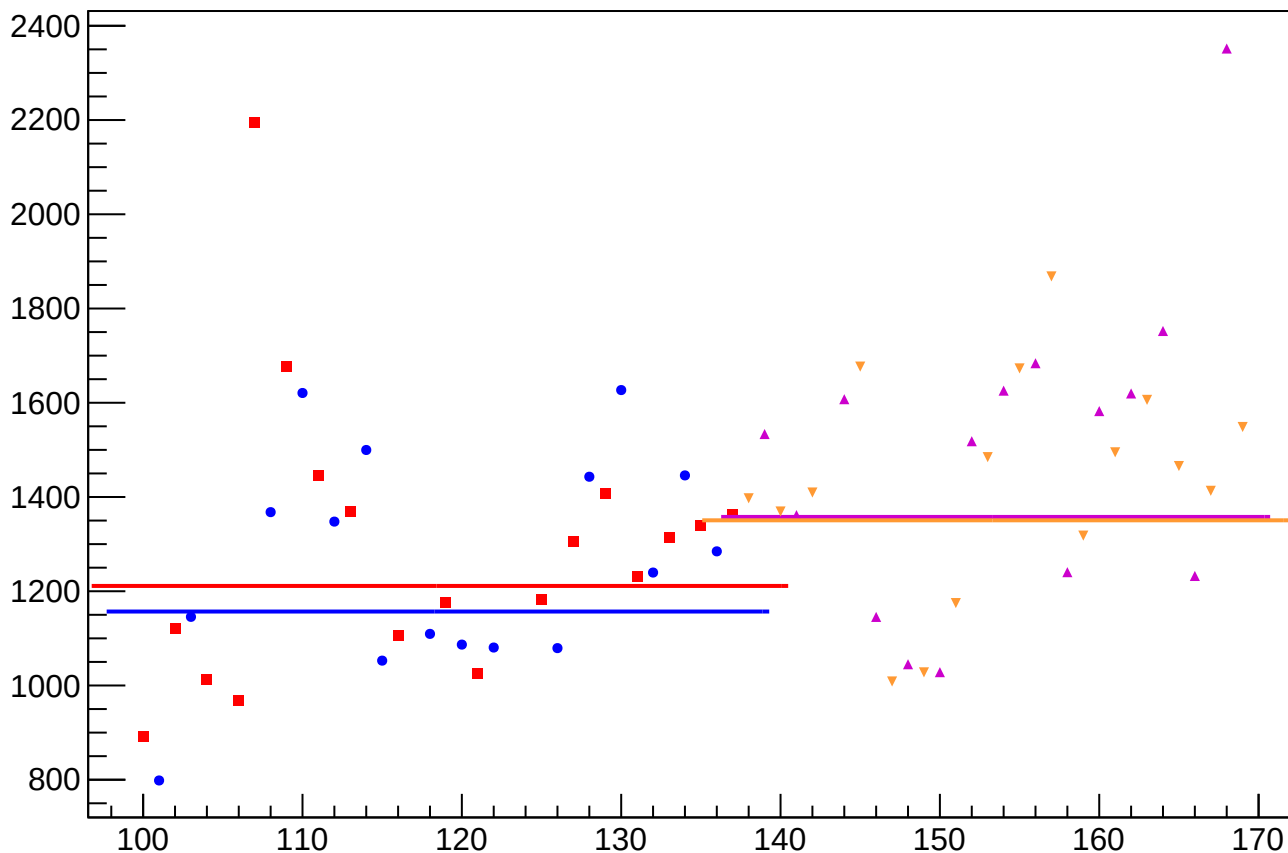
Right: -136.998 ± 316.519 $\chi^2/\text{NDF}: 30.6/33$

In: 135.420 ± 294.392 $\chi^2/\text{NDF}: 24.8/30$

Out: -96.183 ± 295.637 $\chi^2/\text{NDF}: 36.3/33$

All: 20.107 ± 208.605 $\chi^2/\text{NDF}: 61.4/64$

asym_us_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1156.948 $\pm$ 0.312 χ^2 /NDF: 569119.8/15

Left Out: 1350.531 $\pm$ 0.275 χ^2 /NDF: 747508.3/15

Right Out: 1211.264 $\pm$ 0.322 χ^2 /NDF: 397714.5/17

Left In: 1357.712 $\pm$ 0.280 χ^2 /NDF: 1058340.1/14

Left: 1354.062 $\pm$ 0.196 χ^2 /NDF: 1806183.4/30

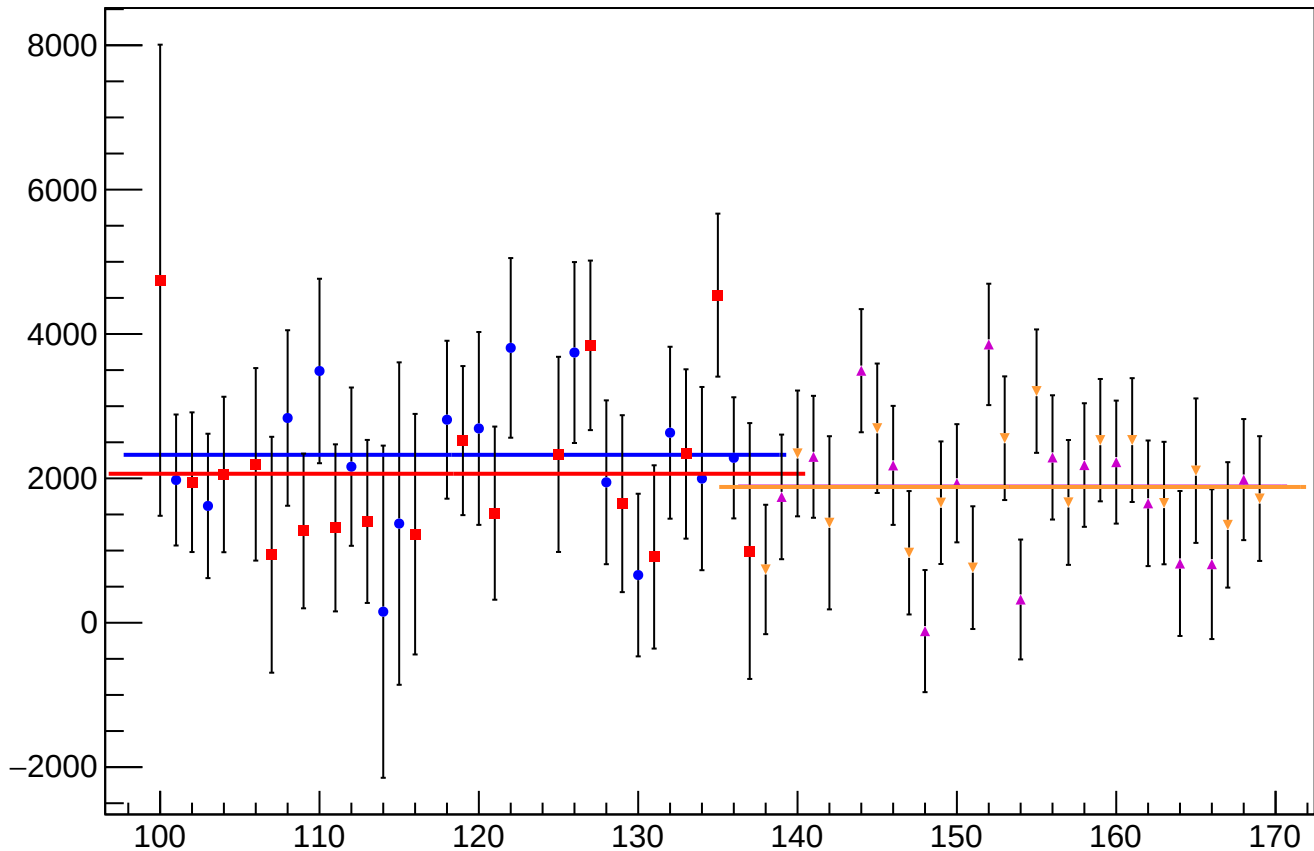
Right: 1183.255 $\pm$ 0.224 χ^2 /NDF: 981543.7/33

In: 1268.153 $\pm$ 0.208 χ^2 /NDF: 1857291.7/30

Out: 1291.687 $\pm$ 0.209 χ^2 /NDF: 1253514.9/33

All: 1279.870 $\pm$ 0.148 χ^2 /NDF: 3117170.3/64

dit_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2326.430 $\pm$ 292.176 χ^2 /NDF: 8.1/15

Left Out: 1881.080 $\pm$ 220.793 χ^2 /NDF:10.6/15

Right Out: 2063.976 $\pm$ 291.790 χ^2 /NDF: 11.6/17

Left In: 1886.859 $\pm$ 223.044 χ^2 /NDF:21.4/14

Left: 1883.940 $\pm$ 156.914 χ^2 /NDF: 32.0/30

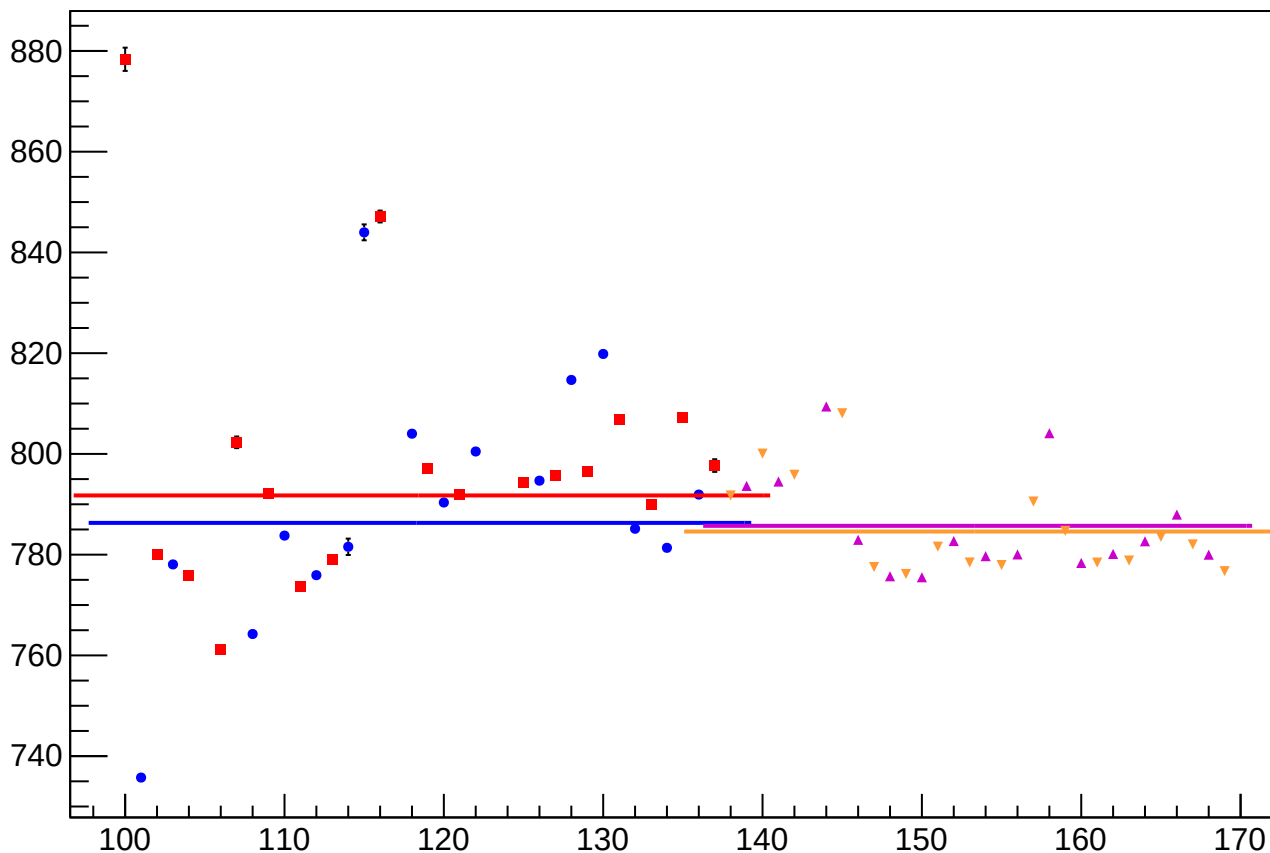
Right: 2195.030 $\pm$ 206.463 χ^2 /NDF: 20.2/33

In: 2048.707 $\pm$ 177.289 χ^2 /NDF:30.9/30

Out: 1947.673 $\pm$ 176.068 χ^2 /NDF:22.5/33

All: 1997.840 $\pm$ 124.928 χ^2 /NDF: 53.6/64

dit_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 786.309 $\pm$ 0.207 χ^2/NDF : 12571.1/15

Left Out: 784.596 $\pm$ 0.156 χ^2/NDF : 3362.8/15

Right Out: 791.756 $\pm$ 0.206 χ^2/NDF : 7015.1/17

Left In: 785.724 $\pm$ 0.158 χ^2/NDF : 4036.3/14

Left: 785.154 $\pm$ 0.111 χ^2/NDF : 7424.9/30

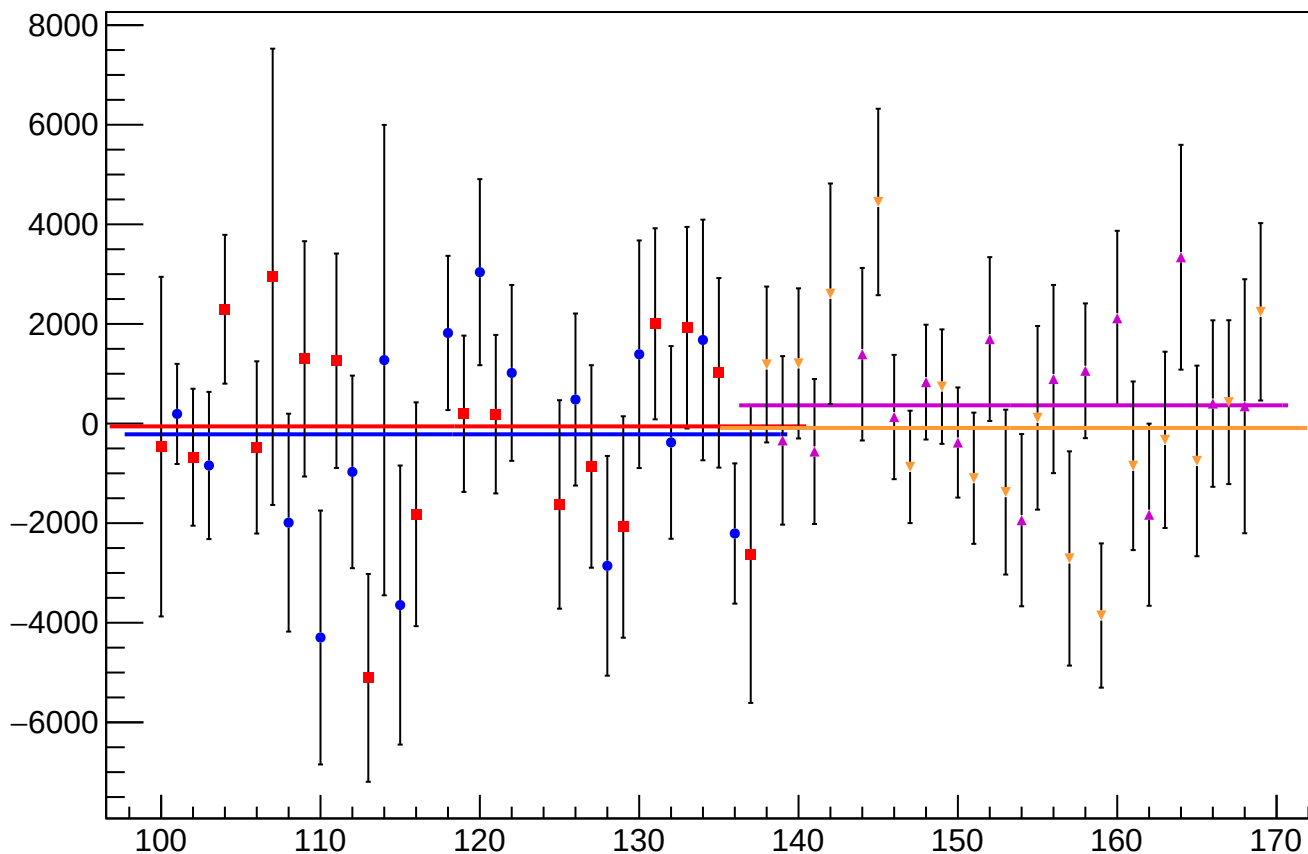
Right: 789.036 $\pm$ 0.146 χ^2/NDF : 19934.2/33

In: 785.939 $\pm$ 0.125 χ^2/NDF : 16612.4/30

Out: 787.203 $\pm$ 0.124 χ^2/NDF : 11143.8/33

All: 786.576 $\pm$ 0.088 χ^2/NDF : 27807.4/64

asym_us_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -216.184 $\pm$ 449.537 χ^2 /NDF: 15.3/15

Left Out: -88.596 $\pm$ 394.211 χ^2 /NDF:21.4/15

Right Out: -56.784 $\pm$ 463.978 χ^2 /NDF: 15.1/17

Left In: 365.515 $\pm$ 400.708 χ^2 /NDF:8.5/14

Left: 134.748 $\pm$ 281.018 χ^2 /NDF: 30.6/30

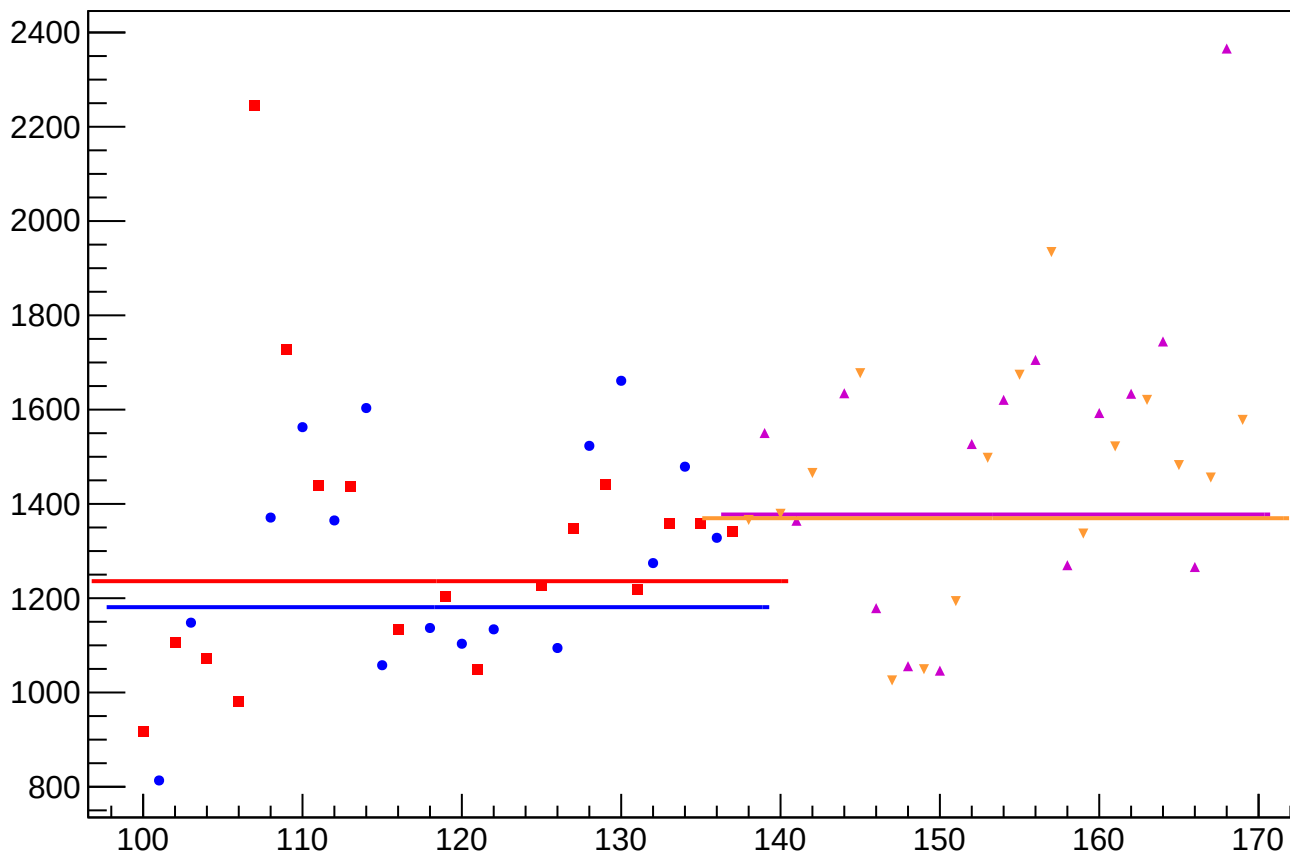
Right: -139.003 $\pm$ 322.855 χ^2 /NDF: 30.5/33

In: 107.962 $\pm$ 299.123 χ^2 /NDF:24.7/30

Out: -75.260 $\pm$ 300.419 χ^2 /NDF:36.5/33

All: 16.747 $\pm$ 211.969 χ^2 /NDF: 61.4/64

asym_us_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1180.998 $\pm$ 0.318 χ^2 /NDF: 571107.8/15

Left Out: 1369.682 $\pm$ 0.279 χ^2 /NDF: 736346.1/15

Right Out: 1236.134 $\pm$ 0.328 χ^2 /NDF: 397242.2/17

Left In: 1377.521 $\pm$ 0.283 χ^2 /NDF: 1011446.6/14

Left: 1373.537 $\pm$ 0.199 χ^2 /NDF: 1748181.7/30

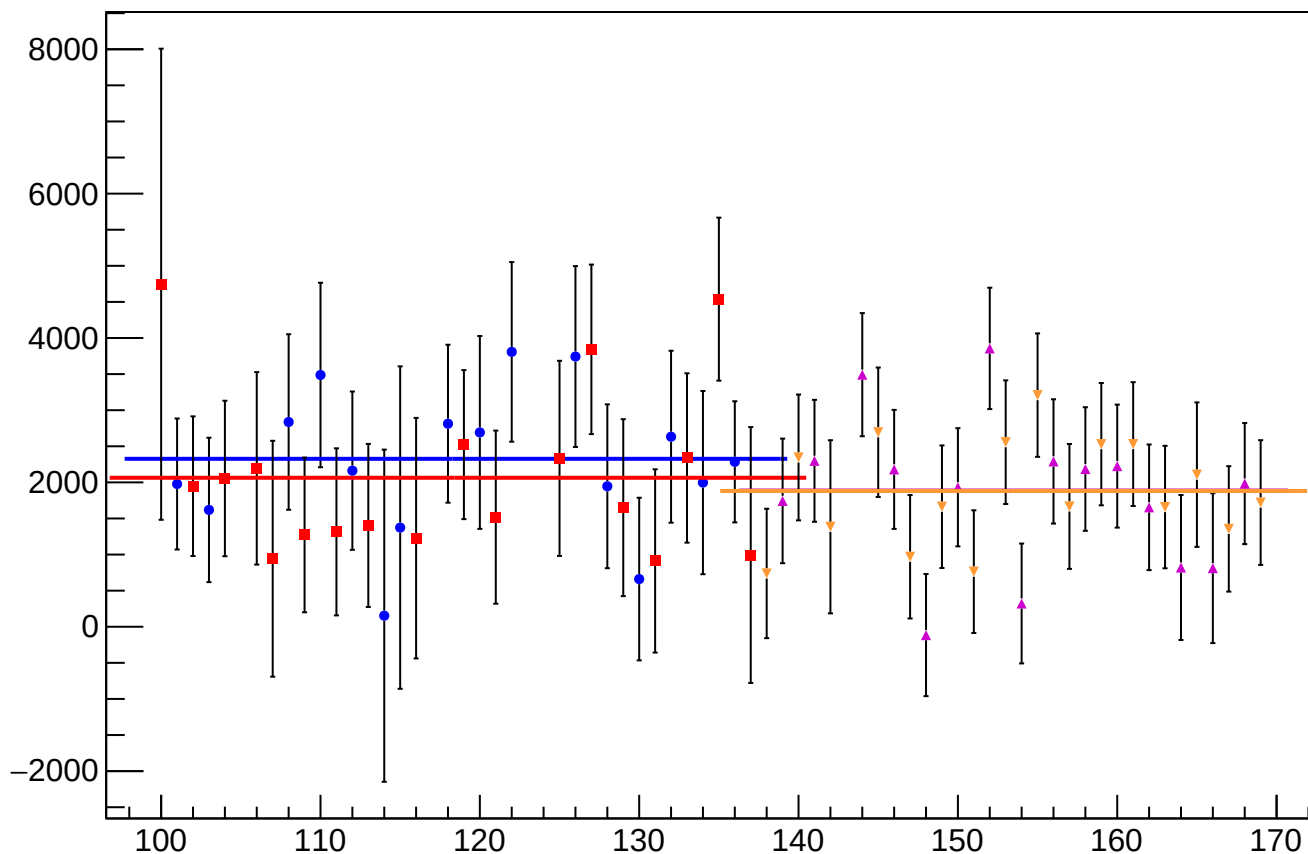
Right: 1207.695 $\pm$ 0.228 χ^2 /NDF: 982917.9/33

In: 1290.508 $\pm$ 0.212 χ^2 /NDF: 1795549.3/30

Out: 1313.694 $\pm$ 0.212 χ^2 /NDF: 1229817.1/33

All: 1302.051 $\pm$ 0.150 χ^2 /NDF: 3031348.3/64

eigen_dit_asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2326.429 $\pm$ 292.176 χ^2 /NDF: 8.1/15

Left Out: 1881.077 $\pm$ 220.793 χ^2 /NDF:10.6/15

Right Out: 2063.975 $\pm$ 291.790 χ^2 /NDF: 11.6/17

Left In: 1886.860 $\pm$ 223.044 χ^2 /NDF:21.4/14

Left: 1883.939 $\pm$ 156.914 χ^2 /NDF: 32.0/30

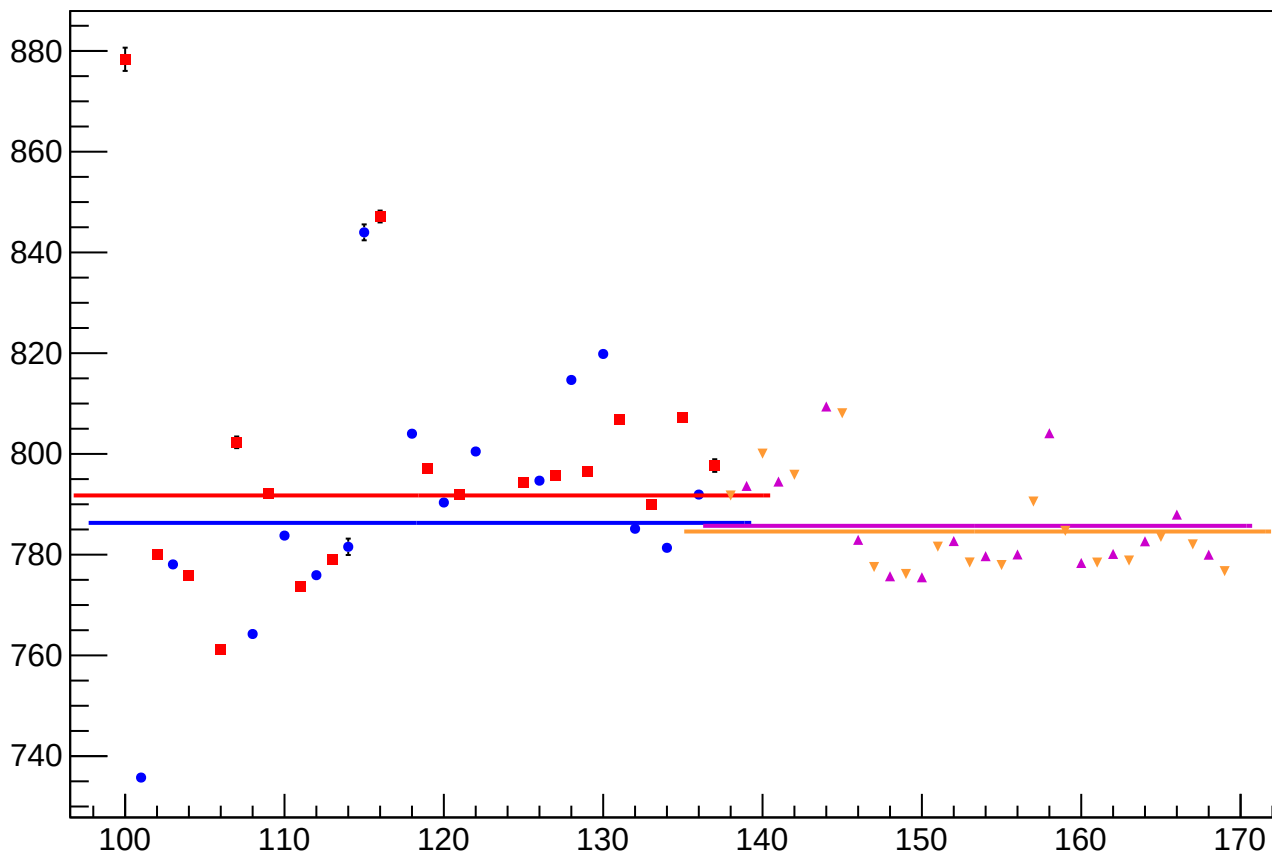
Right: 2195.029 $\pm$ 206.463 χ^2 /NDF: 20.2/33

In: 2048.707 $\pm$ 177.289 χ^2 /NDF:30.9/30

Out: 1947.670 $\pm$ 176.068 χ^2 /NDF:22.5/33

All: 1997.839 $\pm$ 124.928 χ^2 /NDF: 53.6/64

eigen_dit_asym_us_avg_rms vs Slug, Sign Corrected



Right In: 786.309 $\pm$ 0.207 χ^2/NDF : 12571.0/15

Left Out: 784.596 $\pm$ 0.156 χ^2/NDF : 3362.8/15

Right Out: 791.756 $\pm$ 0.206 χ^2/NDF : 7015.1/17

Left In: 785.724 $\pm$ 0.158 χ^2/NDF : 4036.3/14

Left: 785.154 $\pm$ 0.111 χ^2/NDF : 7424.9/30

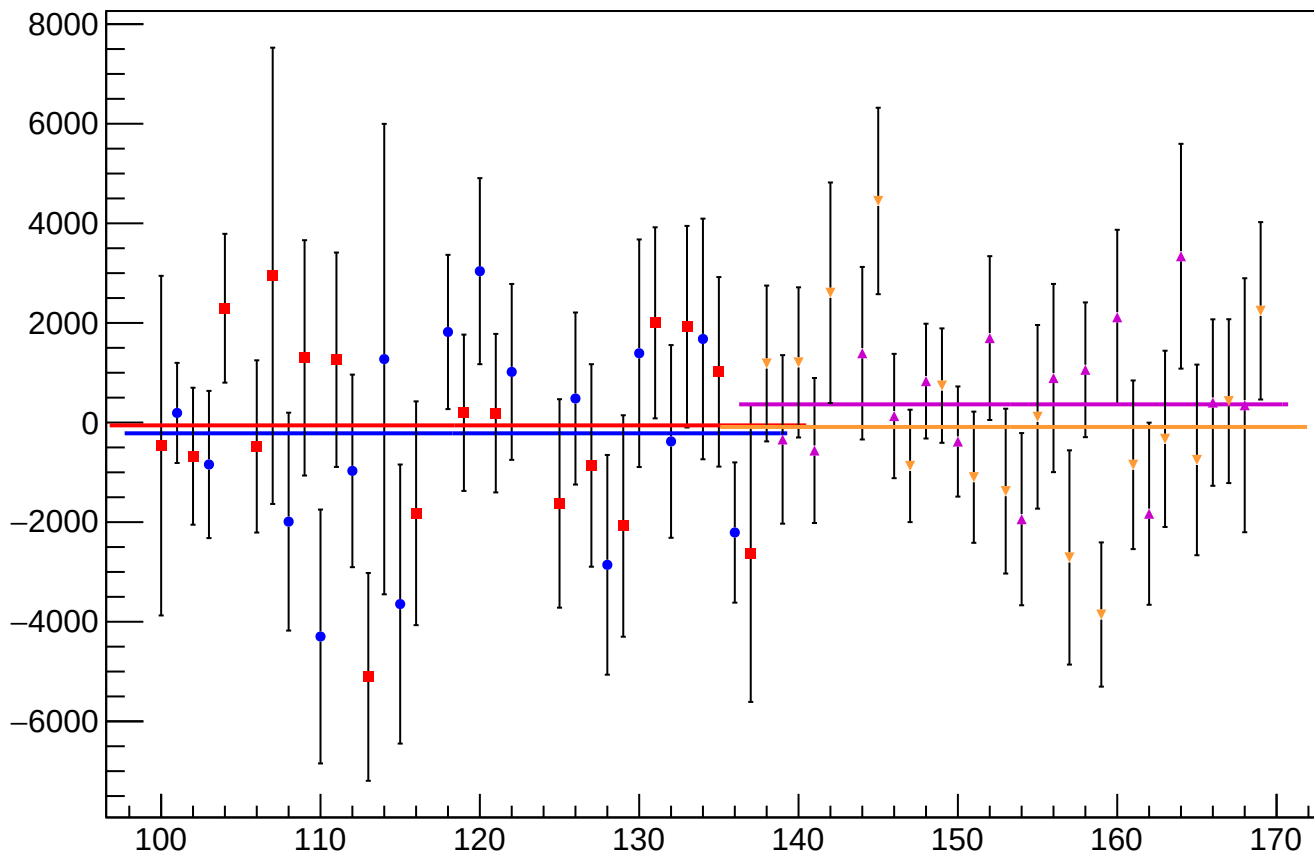
Right: 789.036 $\pm$ 0.146 χ^2/NDF : 19934.1/33

In: 785.939 $\pm$ 0.125 χ^2/NDF : 16612.4/30

Out: 787.203 $\pm$ 0.124 χ^2/NDF : 11143.7/33

All: 786.576 $\pm$ 0.088 χ^2/NDF : 27807.2/64

asym_us_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -216.183 ± 449.536 $\chi^2/\text{NDF}: 15.3/15$

Left Out: -88.600 ± 394.212 $\chi^2/\text{NDF}: 21.4/15$

Right Out: -56.784 ± 463.977 $\chi^2/\text{NDF}: 15.1/17$

Left In: 365.516 ± 400.709 $\chi^2/\text{NDF}: 8.5/14$

Left: 134.746 ± 281.019 $\chi^2/\text{NDF}: 30.6/30$

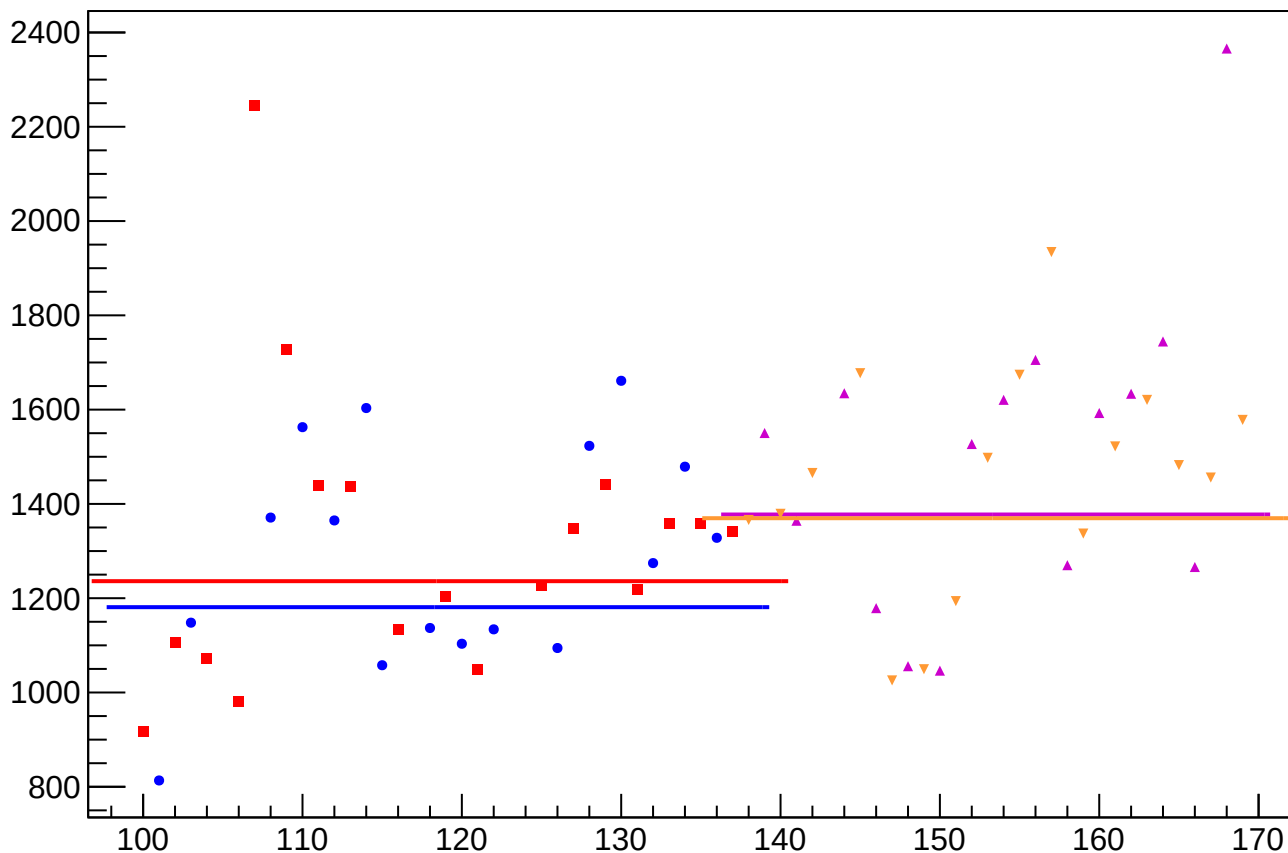
Right: -139.003 ± 322.855 $\chi^2/\text{NDF}: 30.5/33$

In: 107.962 ± 299.123 $\chi^2/\text{NDF}: 24.7/30$

Out: -75.261 ± 300.419 $\chi^2/\text{NDF}: 36.5/33$

All: 16.746 ± 211.969 $\chi^2/\text{NDF}: 61.4/64$

asym_us_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1180.995 $\pm$ 0.318 χ^2 /NDF: 571105.7/15

Left Out: 1369.684 $\pm$ 0.279 χ^2 /NDF: 736347.9/15

Right Out: 1236.131 $\pm$ 0.328 χ^2 /NDF: 397240.7/17

Left In: 1377.524 $\pm$ 0.283 χ^2 /NDF: 1011447.2/14

Left: 1373.540 $\pm$ 0.199 χ^2 /NDF: 1748184.1/30

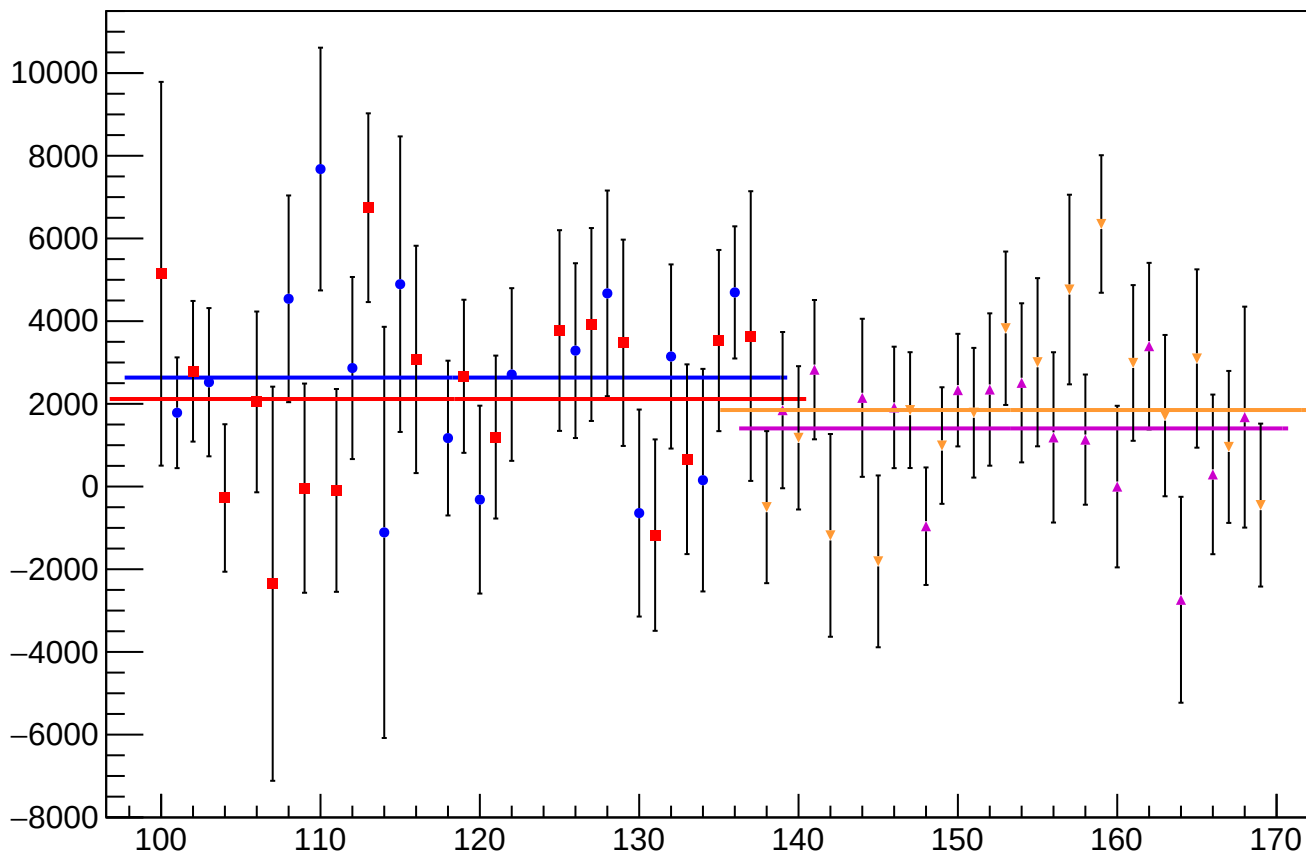
Right: 1207.692 $\pm$ 0.228 χ^2 /NDF: 982914.1/33

In: 1290.508 $\pm$ 0.212 χ^2 /NDF: 1795560.1/30

Out: 1313.693 $\pm$ 0.212 χ^2 /NDF: 1229826.0/33

All: 1302.051 $\pm$ 0.150 χ^2 /NDF: 3031368.0/64

asym_us_avg_mean vs Slug, Sign Corrected



Right In: 2635.397 $\pm$ 538.034 χ^2 /NDF: 12.3/15

Left Out: 1850.695 $\pm$ 454.391 χ^2 /NDF:19.5/15

Right Out: 2117.162 $\pm$ 547.483 χ^2 /NDF: 13.7/17

Left In: 1405.693 $\pm$ 461.940 χ^2 /NDF:9.5/14

Left: 1631.860 $\pm$ 323.939 χ^2 /NDF: 29.5/30

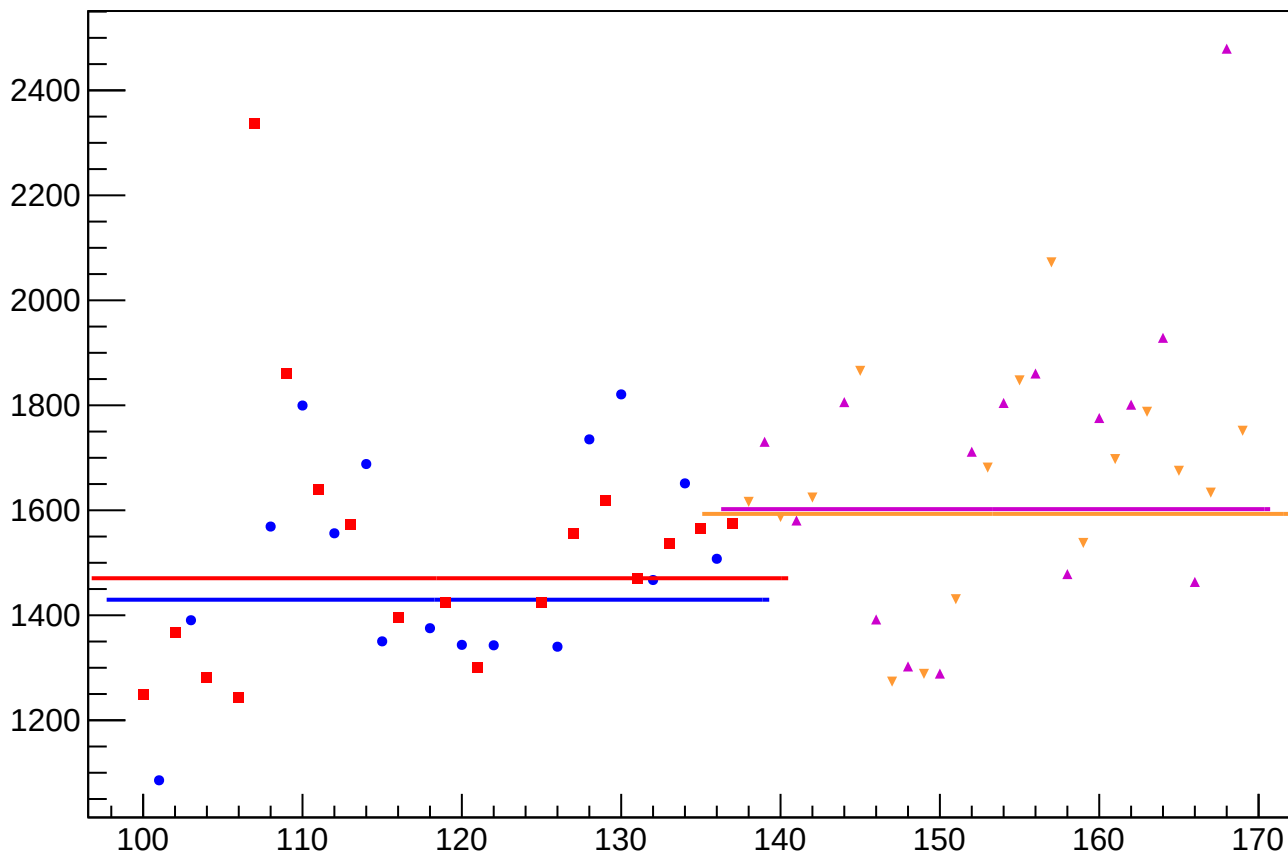
Right: 2380.790 $\pm$ 383.745 χ^2 /NDF: 26.4/33

In: 1927.508 $\pm$ 350.484 χ^2 /NDF:24.8/30

Out: 1959.381 $\pm$ 349.652 χ^2 /NDF:33.3/33

All: 1943.482 $\pm$ 247.535 χ^2 /NDF: 58.1/64

asym_us_avg_rms vs Slug, Sign Corrected



Right In: 1429.654 $\pm$ 0.380 χ^2/NDF : 293388.5/15

Left Out: 1593.134 $\pm$ 0.321 χ^2/NDF : 422234.0/15

Right Out: 1470.565 $\pm$ 0.387 χ^2/NDF : 218067.5/17

Left In: 1602.232 $\pm$ 0.327 χ^2/NDF : 636598.2/14

Left: 1597.608 $\pm$ 0.229 χ^2/NDF : 1059226.5/30

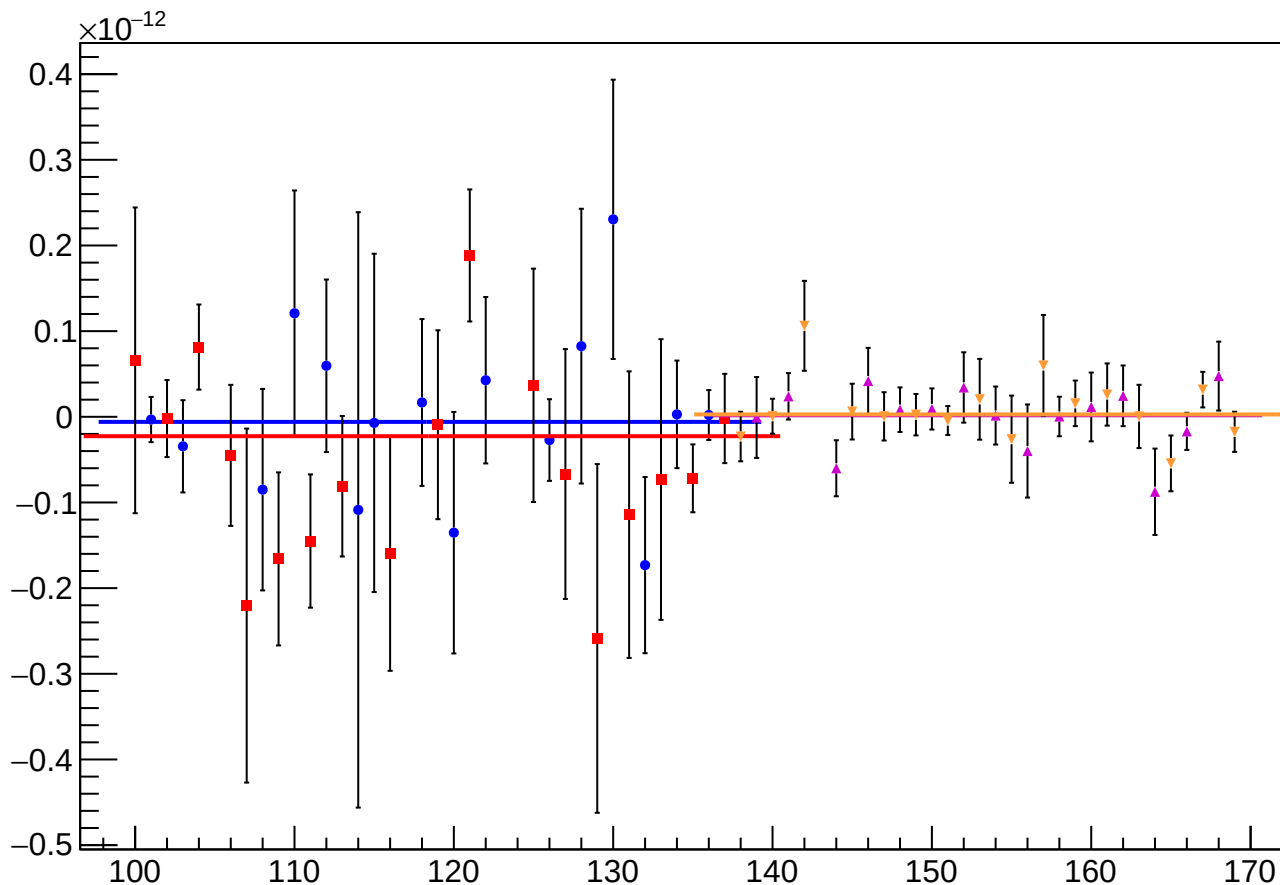
Right: 1449.753 $\pm$ 0.271 χ^2/NDF : 517137.1/33

In: 1529.000 $\pm$ 0.248 χ^2/NDF : 1048439.4/30

Out: 1543.141 $\pm$ 0.247 χ^2/NDF : 699656.8/33

All: 1536.087 $\pm$ 0.175 χ^2/NDF : 1749728.0/64

asym_us_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 8.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :12.7/15

Right Out: -0.000+/-0.000 χ^2/NDF : 23.1/17

Left In: 0.000+/-0.000 χ^2/NDF :12.3/14

Left: 0.000+/-0.000 χ^2/NDF : 25.1/30

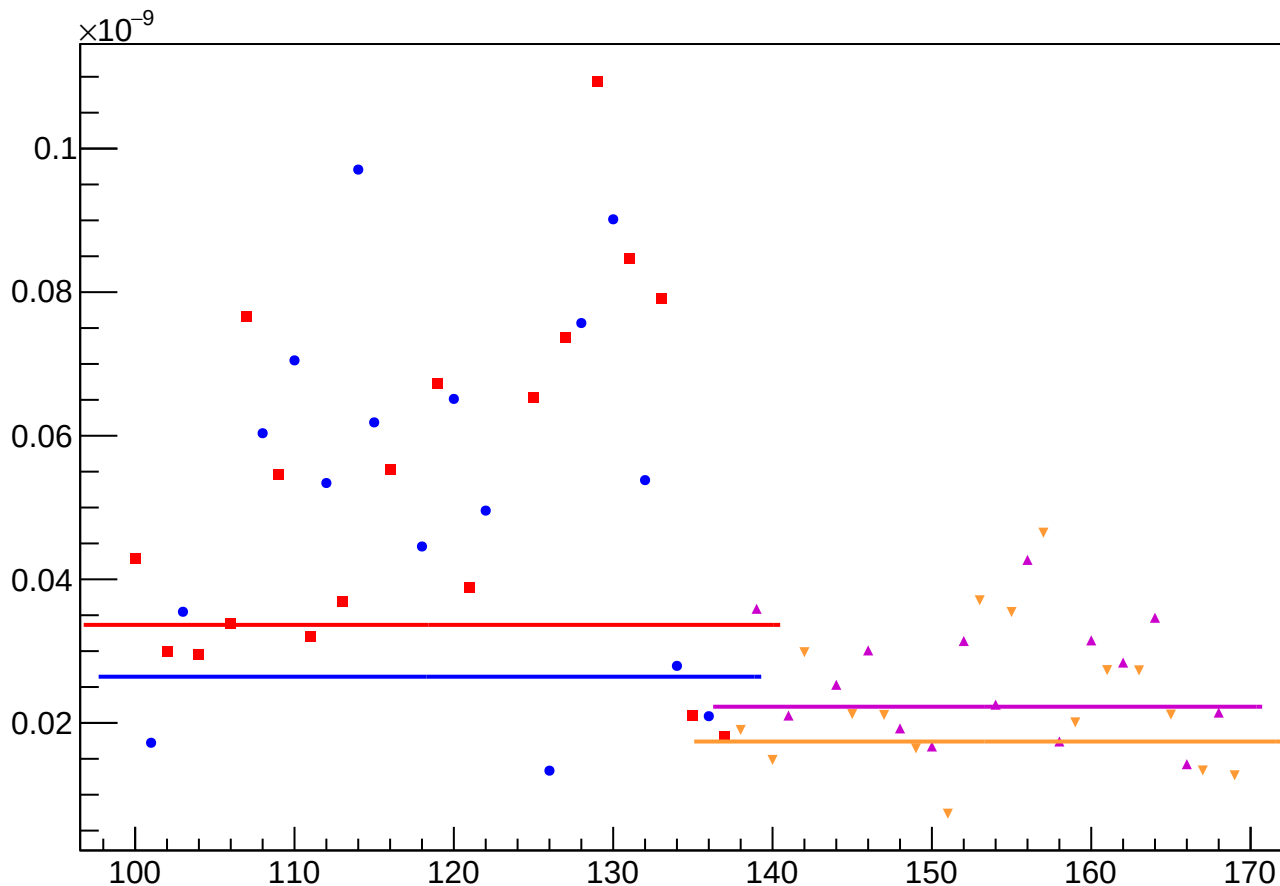
Right: -0.000+/-0.000 χ^2/NDF : 32.1/33

In: 0.000+/-0.000 χ^2/NDF :21.1/30

Out: -0.000+/-0.000 χ^2/NDF :37.5/33

All: -0.000+/-0.000 χ^2/NDF : 58.5/64

asym_us_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2138464.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2506692.0/15

Right Out: 0.000+/-0.000 χ^2/NDF : 1711887.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 1434872.0/14

Left: 0.000+/-0.000 χ^2/NDF : 4346571.3/30

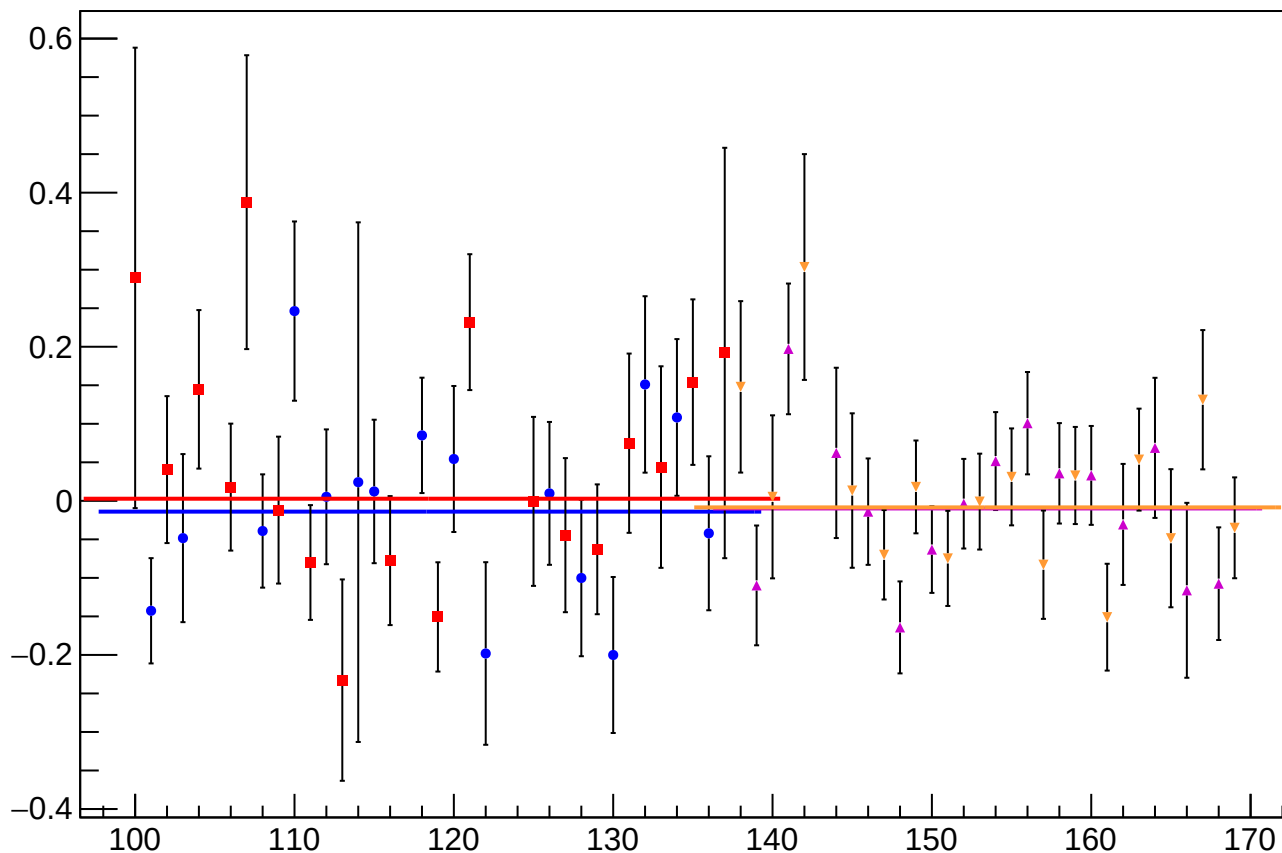
Right: 0.000+/-0.000 χ^2/NDF : 4035968.6/33

In: 0.000+/-0.000 χ^2/NDF : 3690812.5/30

Out: 0.000+/-0.000 χ^2/NDF : 5608773.8/33

All: 0.000+/-0.000 χ^2/NDF : 9590008.2/64

asym_us_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.014 ± 0.024 $\chi^2/\text{NDF}: 21.4/15$

Left Out: -0.009 ± 0.018 $\chi^2/\text{NDF}: 18.9/15$

Right Out: 0.003 ± 0.024 $\chi^2/\text{NDF}: 27.8/17$

Left In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 23.8/14$

Left: -0.009 ± 0.013 $\chi^2/\text{NDF}: 42.6/30$

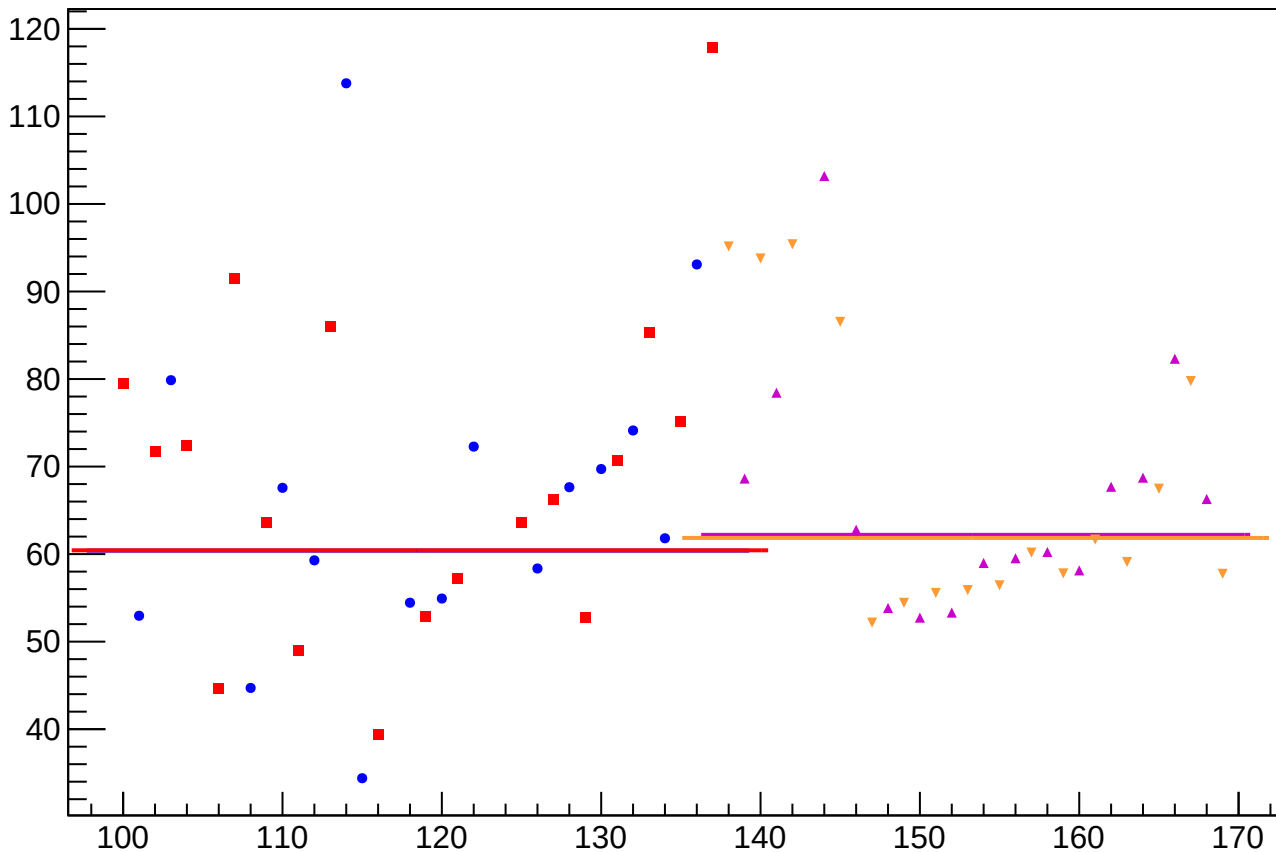
Right: -0.006 ± 0.017 $\chi^2/\text{NDF}: 49.4/33$

In: -0.011 ± 0.015 $\chi^2/\text{NDF}: 45.1/30$

Out: -0.004 ± 0.014 $\chi^2/\text{NDF}: 46.8/33$

All: -0.008 ± 0.010 $\chi^2/\text{NDF}: 92.0/64$

asym_us_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.399 $\pm$ 0.017 χ^2 /NDF: 703157.1/15

Left Out: 61.847 $\pm$ 0.013 χ^2 /NDF: 834331.4/15

Right Out: 60.434 $\pm$ 0.017 χ^2 /NDF: 711093.4/17

Left In: 62.199 $\pm$ 0.013 χ^2 /NDF: 612096.2/14

Left: 62.022 $\pm$ 0.009 χ^2 /NDF: 1446800.7/30

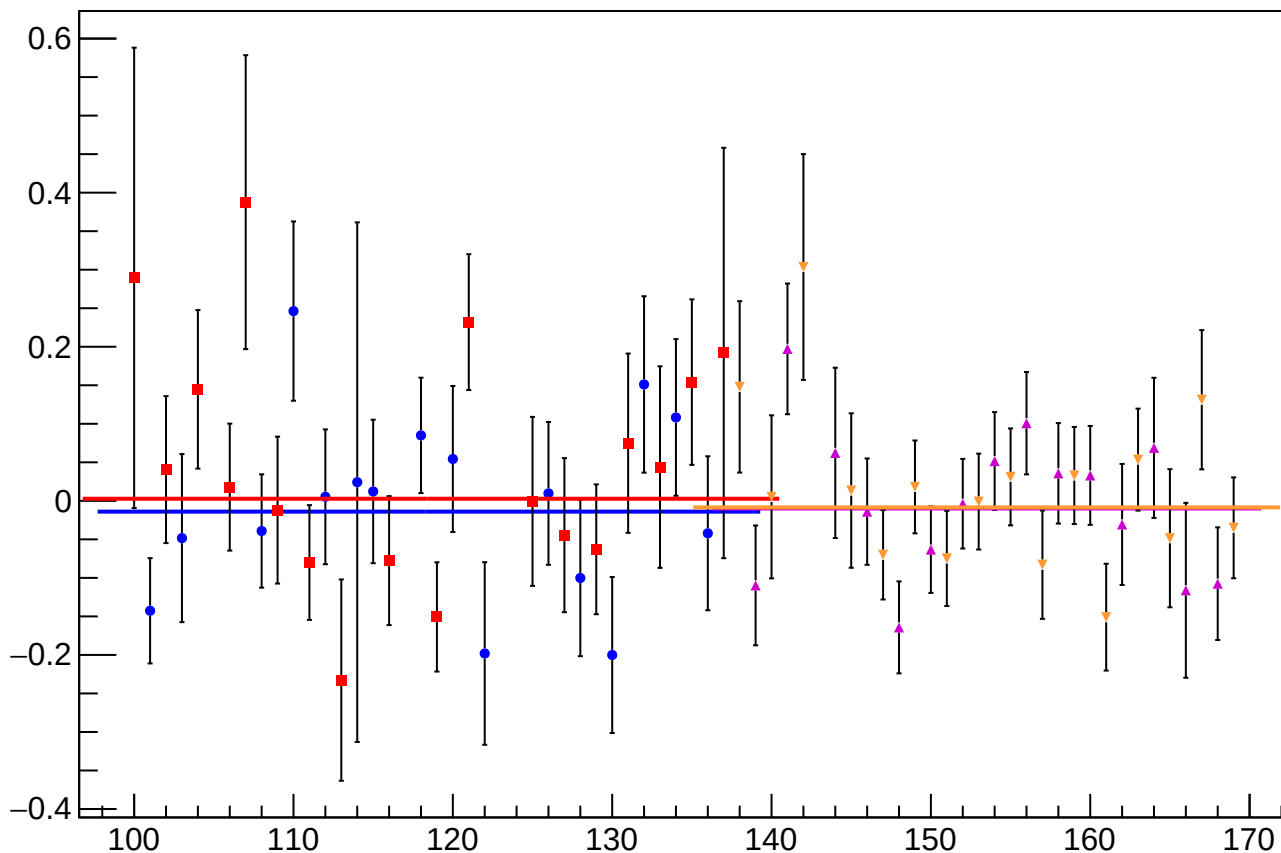
Right: 60.417 $\pm$ 0.012 χ^2 /NDF: 1414252.6/33

In: 61.533 $\pm$ 0.010 χ^2 /NDF: 1322421.5/30

Out: 61.327 $\pm$ 0.010 χ^2 /NDF: 1549882.9/33

All: 61.429 $\pm$ 0.007 χ^2 /NDF: 2872506.8/64

asym_us_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.014 ± 0.024 $\chi^2/\text{NDF}: 21.4/15$

Left Out: -0.009 ± 0.018 $\chi^2/\text{NDF}: 18.9/15$

Right Out: 0.003 ± 0.024 $\chi^2/\text{NDF}: 27.8/17$

Left In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 23.8/14$

Left: -0.009 ± 0.013 $\chi^2/\text{NDF}: 42.6/30$

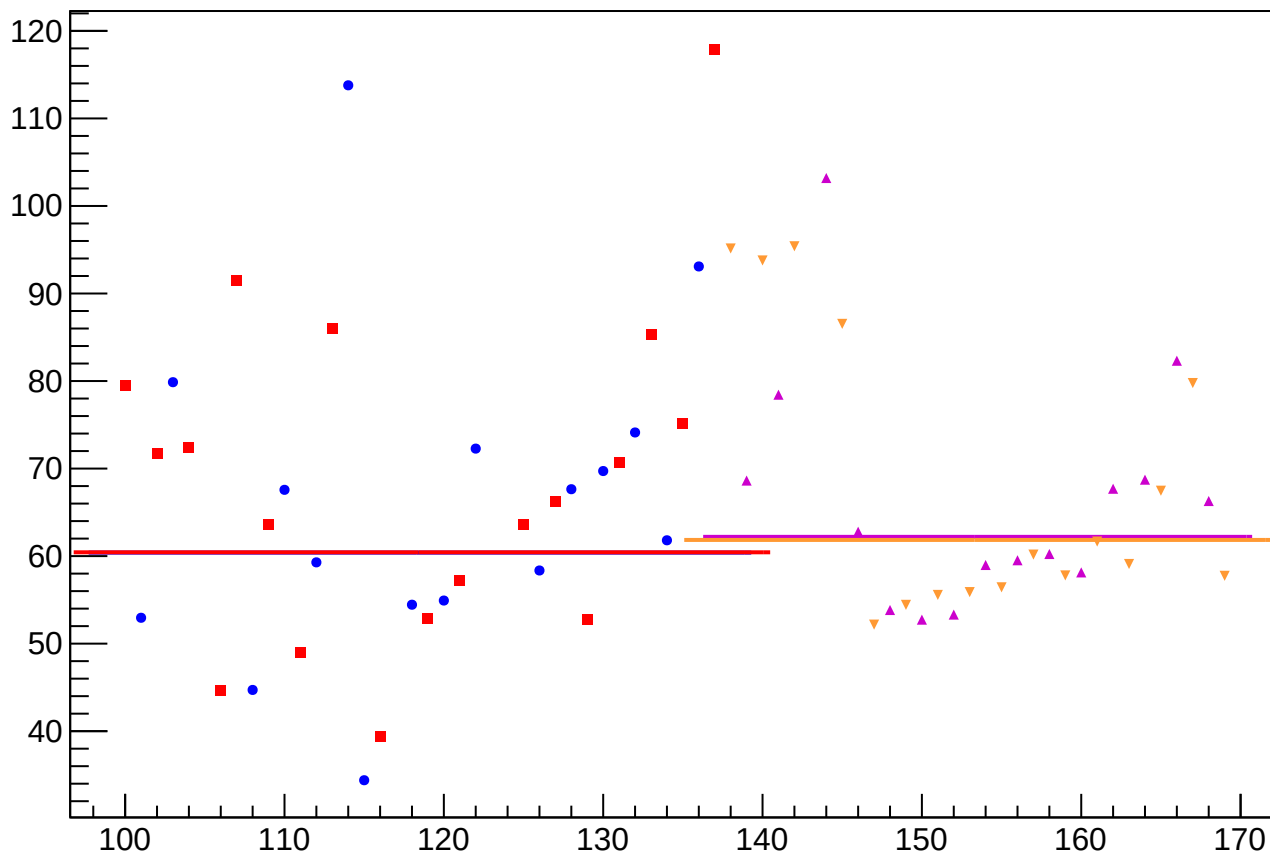
Right: -0.006 ± 0.017 $\chi^2/\text{NDF}: 49.4/33$

In: -0.011 ± 0.015 $\chi^2/\text{NDF}: 45.1/30$

Out: -0.004 ± 0.014 $\chi^2/\text{NDF}: 46.8/33$

All: -0.008 ± 0.010 $\chi^2/\text{NDF}: 92.0/64$

asym_us_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.399+/-0.017 χ^2/NDF : 703157.1/15

Left Out: 61.847+/-0.013 χ^2/NDF :834331.4/15

Right Out: 60.434+/-0.017 χ^2/NDF : 711093.4/17

Left In: 62.199+/-0.013 χ^2/NDF :612096.2/14

Left: 62.022+/-0.009 χ^2/NDF : 1446800.7/30

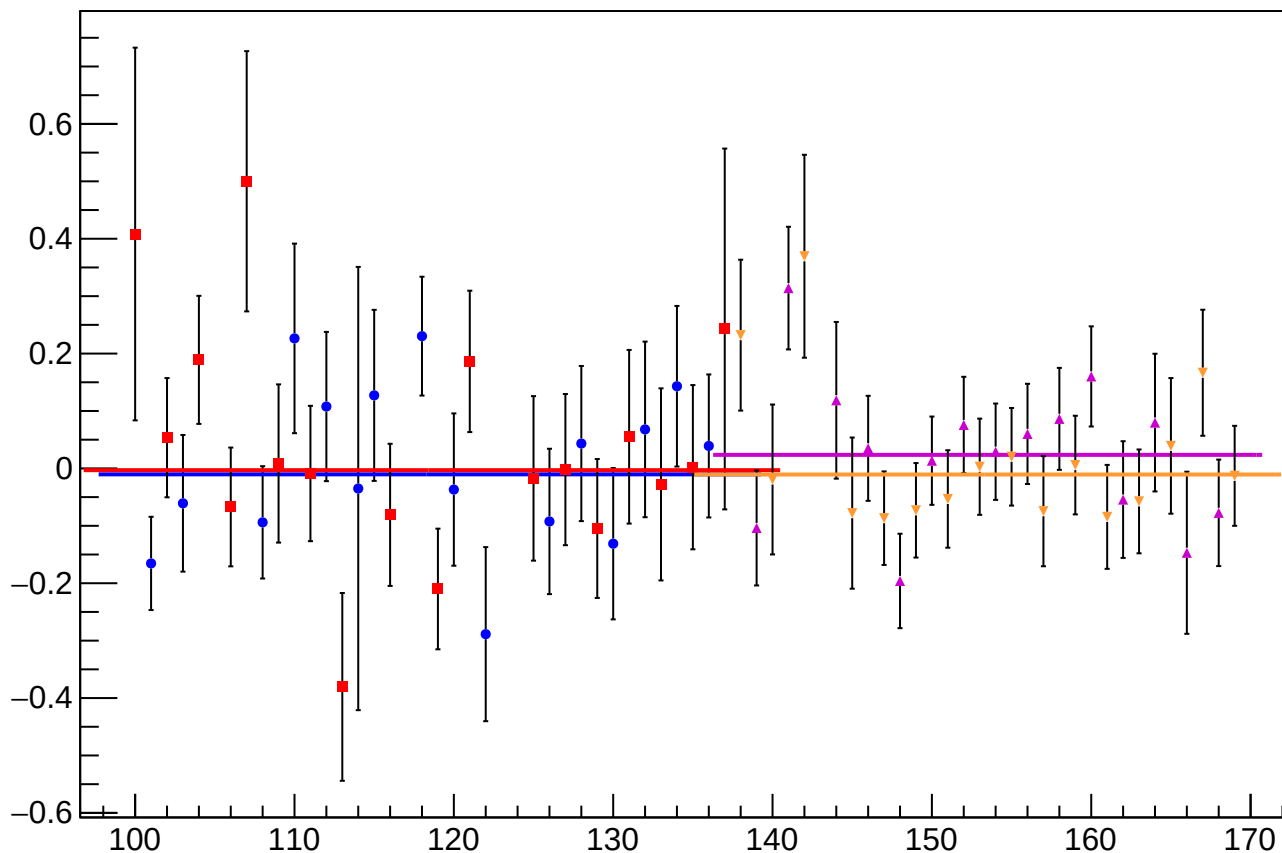
Right: 60.417+/-0.012 χ^2/NDF : 1414252.6/33

In: 61.533+/-0.010 χ^2/NDF :1322421.5/30

Out: 61.327+/-0.010 χ^2/NDF :1549882.9/33

All: 61.429+/-0.007 χ^2/NDF : 2872506.8/64

asym_us_avg_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.032 $\chi^2/\text{NDF}: 20.2/15$

Left Out: -0.011 ± 0.024 $\chi^2/\text{NDF}: 14.4/15$

Right Out: -0.003 ± 0.032 $\chi^2/\text{NDF}: 23.7/17$

Left In: 0.024 ± 0.024 $\chi^2/\text{NDF}: 23.6/14$

Left: 0.006 ± 0.017 $\chi^2/\text{NDF}: 39.0/30$

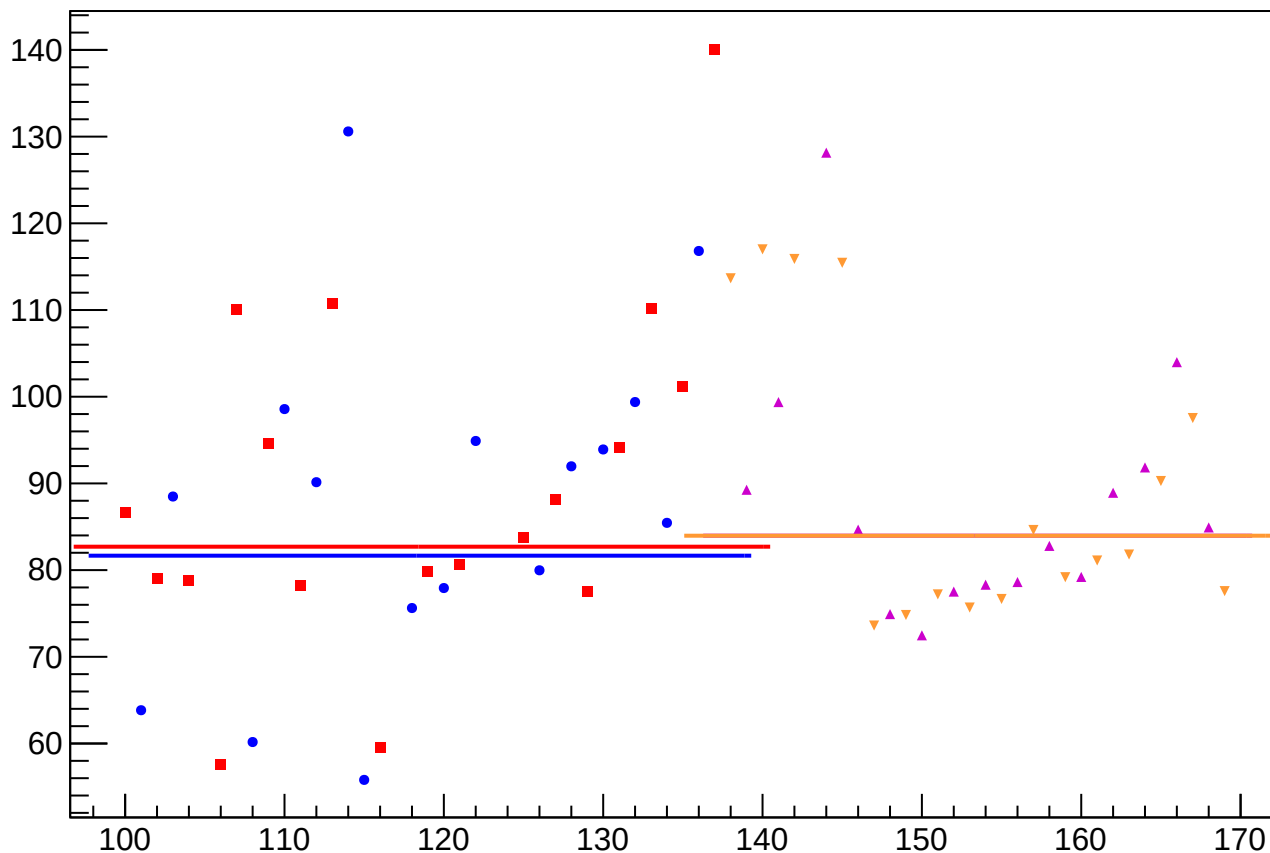
Right: -0.007 ± 0.022 $\chi^2/\text{NDF}: 43.8/33$

In: 0.011 ± 0.019 $\chi^2/\text{NDF}: 44.5/30$

Out: -0.008 ± 0.019 $\chi^2/\text{NDF}: 38.1/33$

All: 0.002 ± 0.014 $\chi^2/\text{NDF}: 83.0/64$

asym_us_avg_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 81.664 $\pm$ 0.022 χ^2 /NDF: 561848.8/15

Left Out: 83.968 $\pm$ 0.017 χ^2 /NDF: 570295.4/15

Right Out: 82.701 $\pm$ 0.022 χ^2 /NDF: 473065.7/17

Left In: 83.970 $\pm$ 0.017 χ^2 /NDF: 414333.0/14

Left: 83.969 $\pm$ 0.012 χ^2 /NDF: 984628.4/30

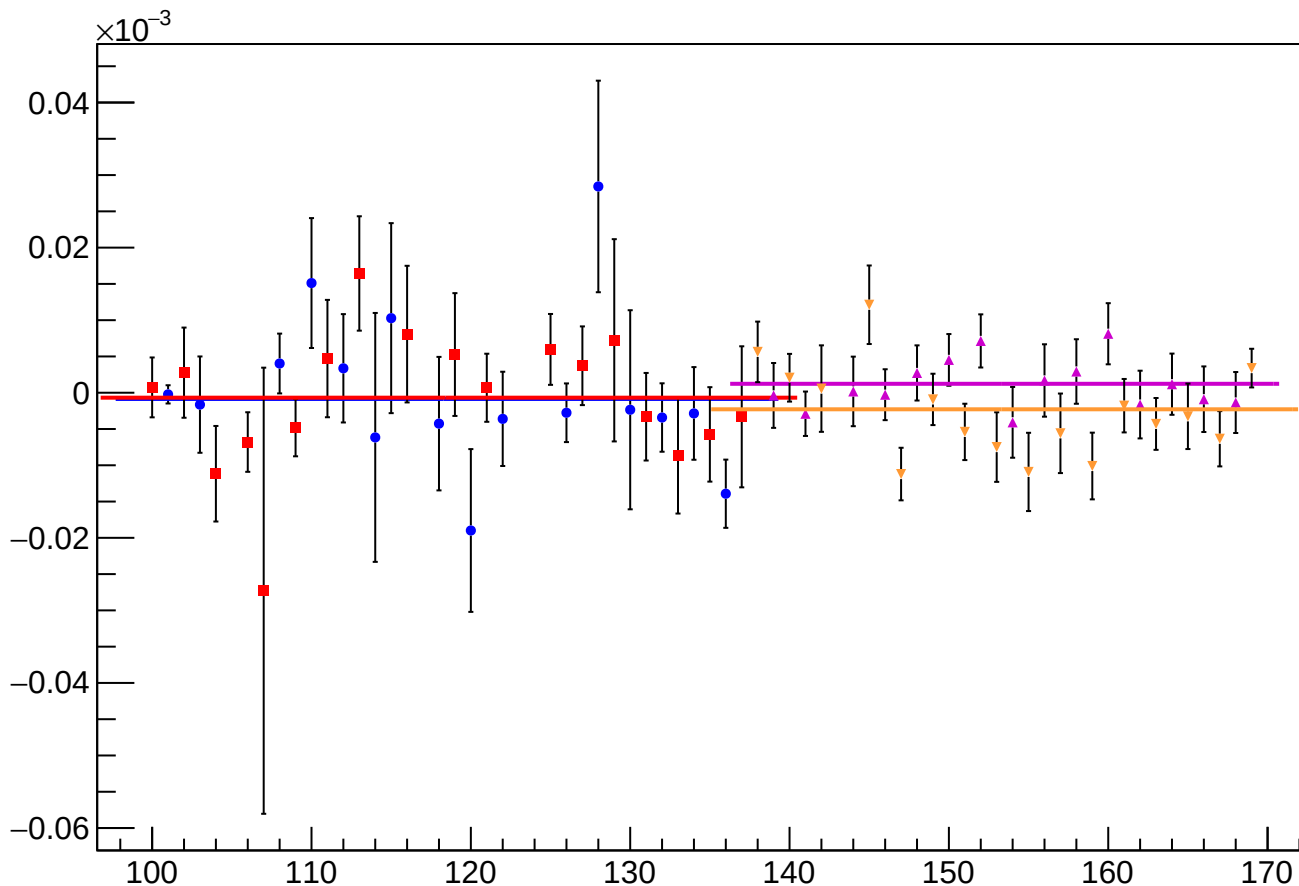
Right: 82.180 $\pm$ 0.016 χ^2 /NDF: 1035987.5/33

In: 83.110 $\pm$ 0.014 χ^2 /NDF: 982861.2/30

Out: 83.501 $\pm$ 0.014 χ^2 /NDF: 1045371.5/33

All: 83.306 $\pm$ 0.010 χ^2 /NDF: 2028642.7/64

asym_us_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 21.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 32.6/15

Right Out: -0.000+/-0.000 χ^2/NDF : 18.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 10.8/14

Left: -0.000+/-0.000 χ^2/NDF : 49.2/30

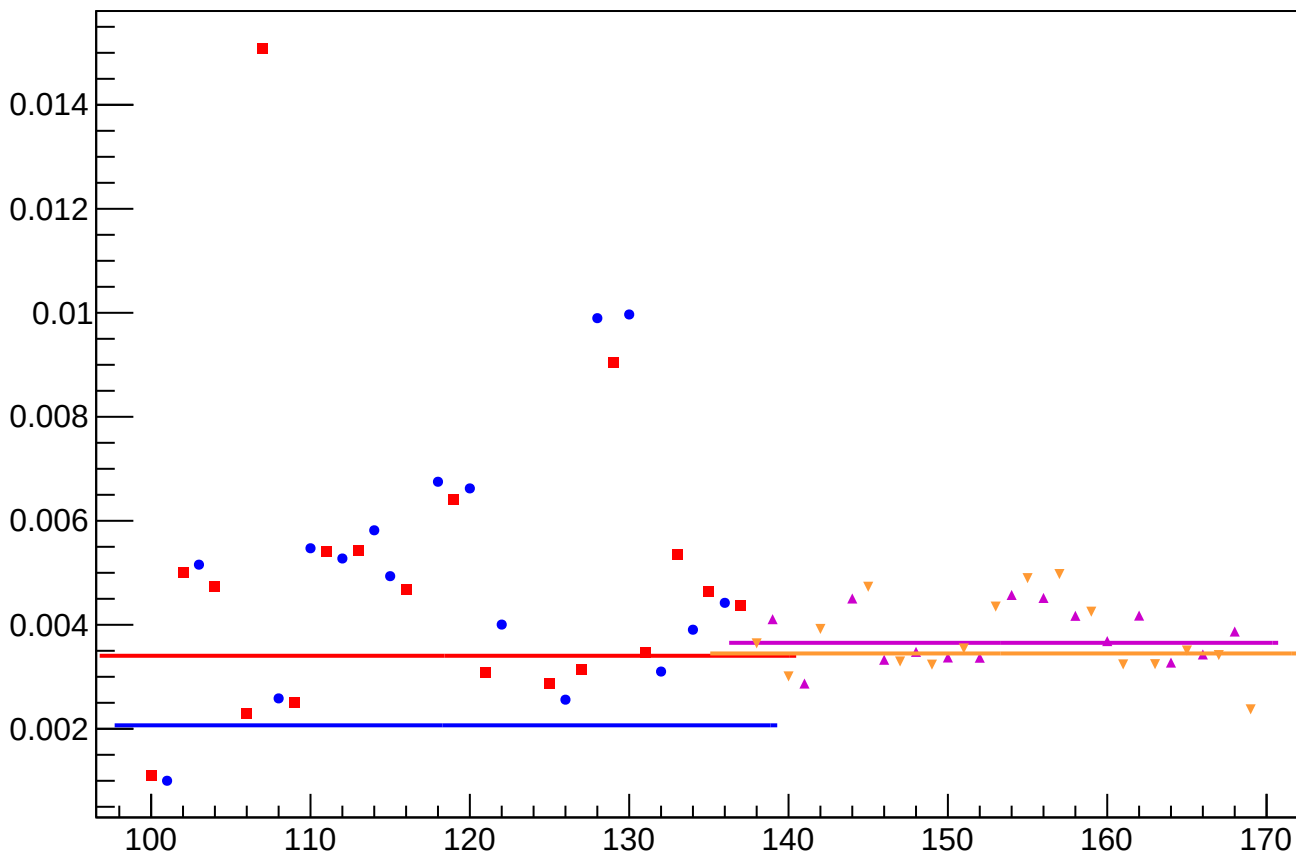
Right: -0.000+/-0.000 χ^2/NDF : 39.7/33

In: 0.000+/-0.000 χ^2/NDF : 34.1/30

Out: -0.000+/-0.000 χ^2/NDF : 51.8/33

All: -0.000+/-0.000 χ^2/NDF : 88.9/64

asym_us_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5813338.1/15

Left Out: 0.003+/-0.000 χ^2/NDF : 947875.0/15

Right Out: 0.003+/-0.000 χ^2/NDF : 2491305.2/17

Left In: 0.004+/-0.000 χ^2/NDF : 471126.8/14

Left: 0.004+/-0.000 χ^2/NDF : 1458752.4/30

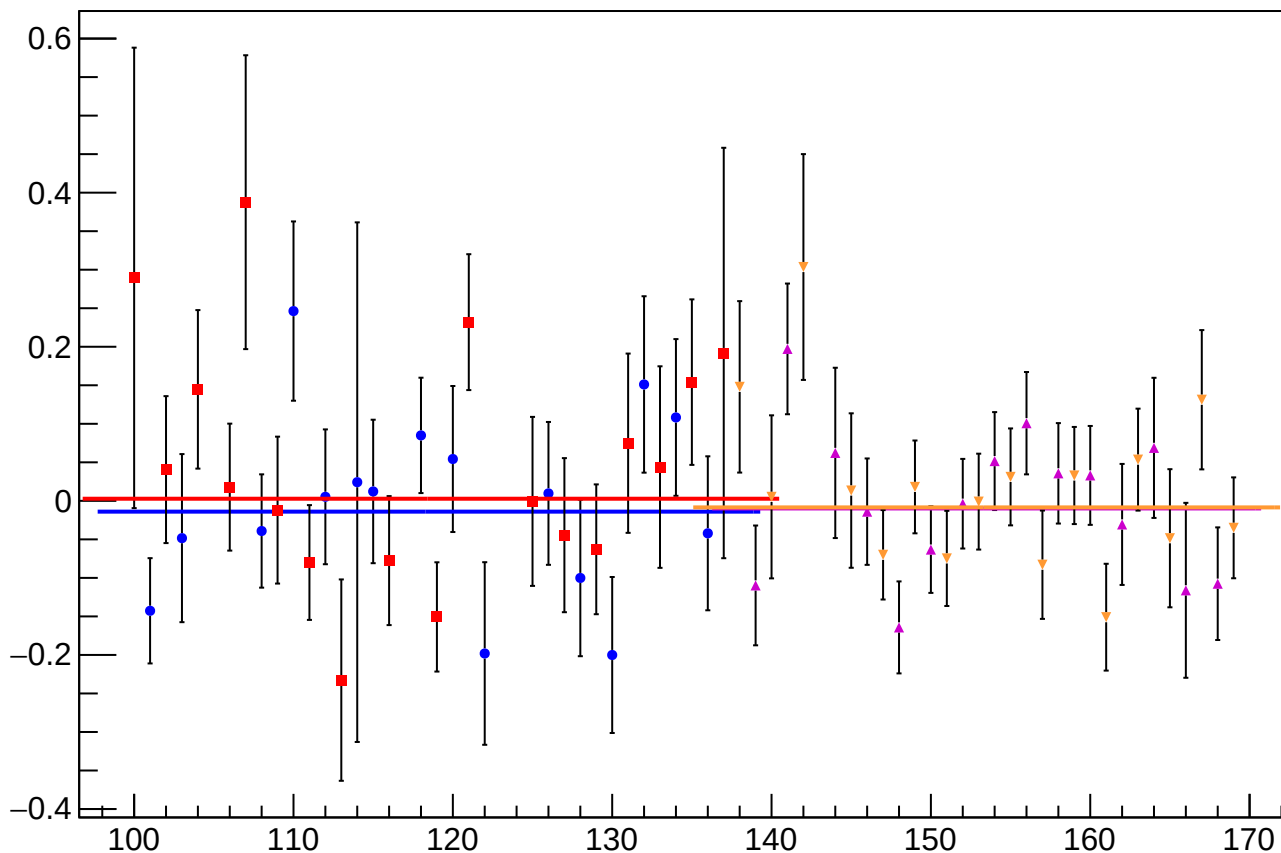
Right: 0.003+/-0.000 χ^2/NDF : 9479134.4/33

In: 0.003+/-0.000 χ^2/NDF : 8651710.6/30

Out: 0.003+/-0.000 χ^2/NDF : 3440485.6/33

All: 0.003+/-0.000 χ^2/NDF : 12710579.5/64

asym_us_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.014 ± 0.024 χ^2/NDF : 21.4/15

Left Out: -0.009 ± 0.018 χ^2/NDF : 18.9/15

Right Out: 0.003 ± 0.024 χ^2/NDF : 27.8/17

Left In: -0.010 ± 0.018 χ^2/NDF : 23.8/14

Left: -0.009 ± 0.013 χ^2/NDF : 42.6/30

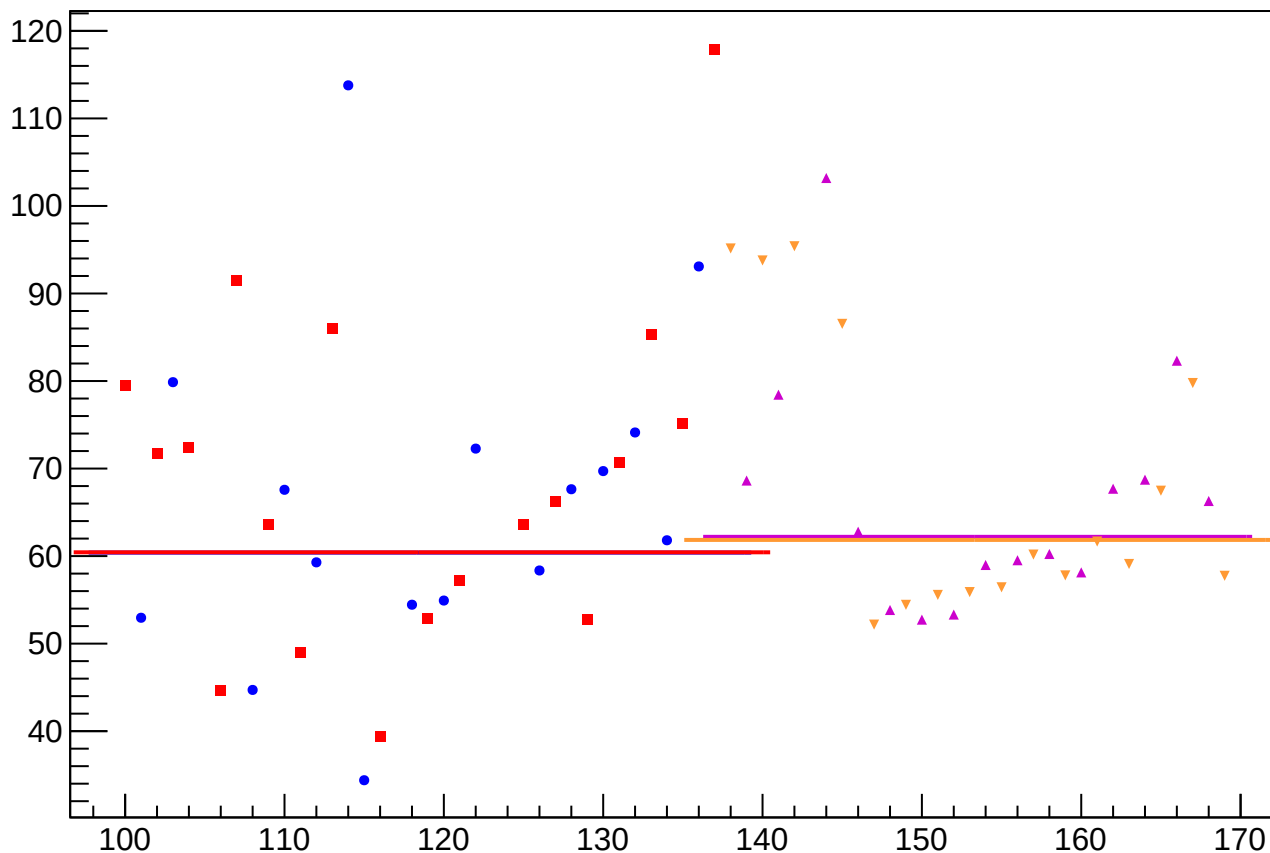
Right: -0.006 ± 0.017 χ^2/NDF : 49.4/33

In: -0.011 ± 0.015 χ^2/NDF : 45.1/30

Out: -0.004 ± 0.014 χ^2/NDF : 46.8/33

All: -0.008 ± 0.010 χ^2/NDF : 92.0/64

asym_us_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.398 $\pm$ 0.017 χ^2 /NDF: 703169.3/15

Left Out: 61.848 $\pm$ 0.013 χ^2 /NDF:834328.4/15

Right Out: 60.432 $\pm$ 0.017 χ^2 /NDF: 711122.4/17

Left In: 62.200 $\pm$ 0.013 χ^2 /NDF:612094.0/14

Left: 62.022 $\pm$ 0.009 χ^2 /NDF: 1446795.2/30

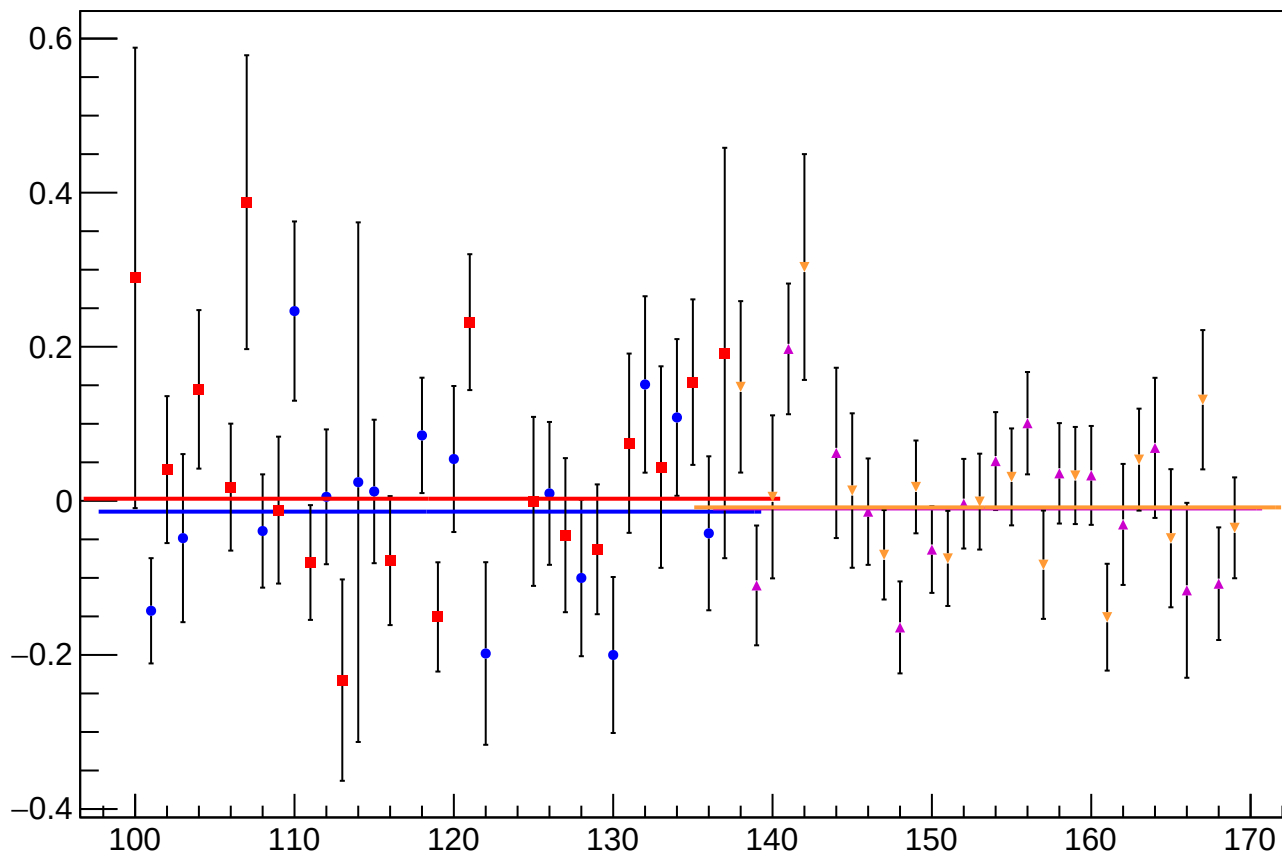
Right: 60.415 $\pm$ 0.012 χ^2 /NDF: 1414293.7/33

In: 61.533 $\pm$ 0.010 χ^2 /NDF:1322444.6/30

Out: 61.327 $\pm$ 0.010 χ^2 /NDF:1549921.8/33

All: 61.429 $\pm$ 0.007 χ^2 /NDF: 2872568.9/64

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.014 ± 0.024 $\chi^2/\text{NDF}: 21.4/15$

Left Out: -0.009 ± 0.018 $\chi^2/\text{NDF}: 18.9/15$

Right Out: 0.003 ± 0.024 $\chi^2/\text{NDF}: 27.8/17$

Left In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 23.8/14$

Left: -0.009 ± 0.013 $\chi^2/\text{NDF}: 42.6/30$

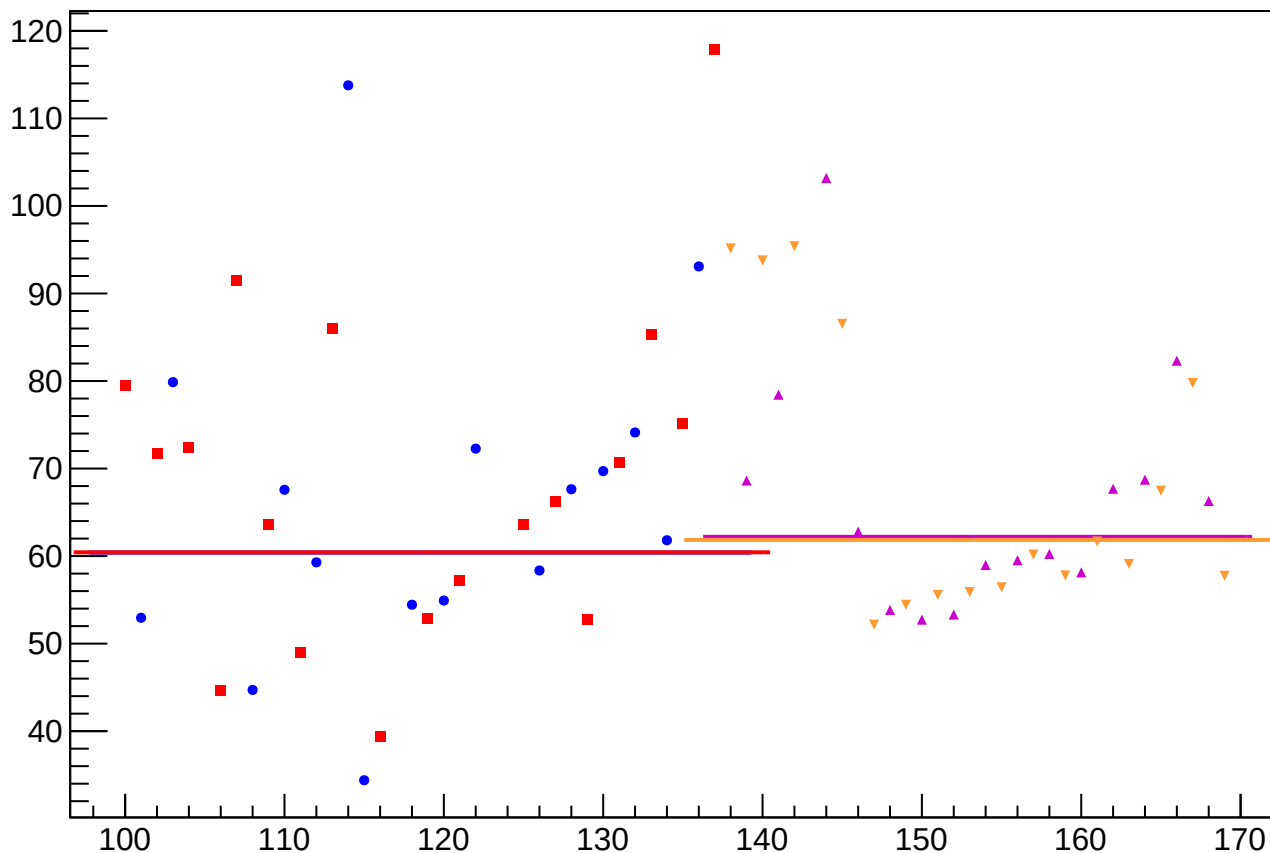
Right: -0.006 ± 0.017 $\chi^2/\text{NDF}: 49.4/33$

In: -0.011 ± 0.015 $\chi^2/\text{NDF}: 45.1/30$

Out: -0.004 ± 0.014 $\chi^2/\text{NDF}: 46.8/33$

All: -0.008 ± 0.010 $\chi^2/\text{NDF}: 92.0/64$

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.398+/-0.017 χ^2/NDF : 703169.3/15

Left Out: 61.848+/-0.013 χ^2/NDF :834328.4/15

Right Out: 60.432+/-0.017 χ^2/NDF : 711122.4/17

Left In: 62.200+/-0.013 χ^2/NDF :612094.0/14

Left: 62.022+/-0.009 χ^2/NDF : 1446795.2/30

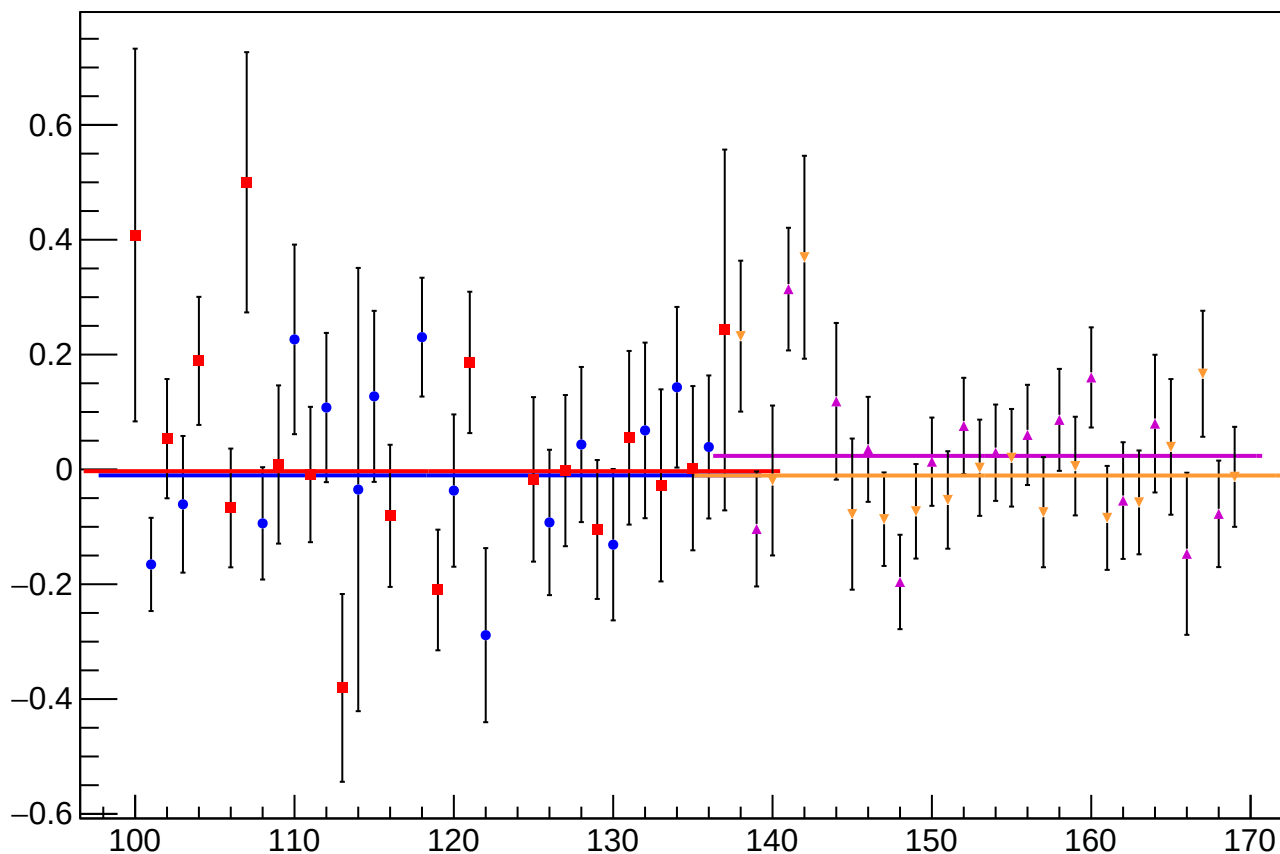
Right: 60.415+/-0.012 χ^2/NDF : 1414293.7/33

In: 61.533+/-0.010 χ^2/NDF :1322444.6/30

Out: 61.327+/-0.010 χ^2/NDF :1549921.8/33

All: 61.429+/-0.007 χ^2/NDF : 2872568.9/64

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.032 $\chi^2/\text{NDF}: 20.2/15$

Left Out: -0.011 ± 0.024 $\chi^2/\text{NDF}: 14.4/15$

Right Out: -0.003 ± 0.032 $\chi^2/\text{NDF}: 23.7/17$

Left In: 0.024 ± 0.024 $\chi^2/\text{NDF}: 23.6/14$

Left: 0.006 ± 0.017 $\chi^2/\text{NDF}: 39.0/30$

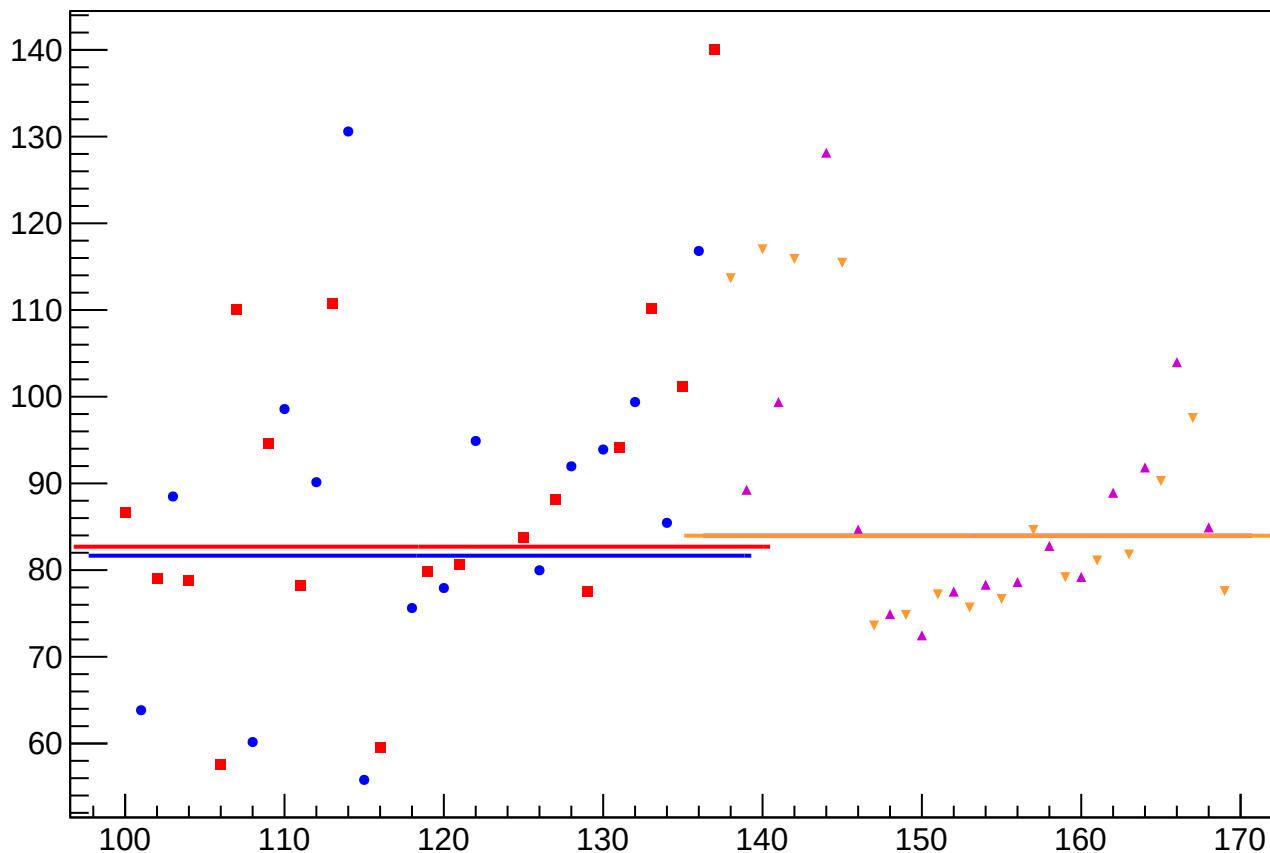
Right: -0.007 ± 0.022 $\chi^2/\text{NDF}: 43.8/33$

In: 0.011 ± 0.019 $\chi^2/\text{NDF}: 44.5/30$

Out: -0.008 ± 0.019 $\chi^2/\text{NDF}: 38.1/33$

All: 0.002 ± 0.014 $\chi^2/\text{NDF}: 83.0/64$

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 81.663 $\pm$ 0.022 χ^2 /NDF: 561836.4/15

Left Out: 83.968 $\pm$ 0.017 χ^2 /NDF: 570293.0/15

Right Out: 82.700 $\pm$ 0.022 χ^2 /NDF: 473062.4/17

Left In: 83.970 $\pm$ 0.017 χ^2 /NDF: 414332.8/14

Left: 83.969 $\pm$ 0.012 χ^2 /NDF: 984625.7/30

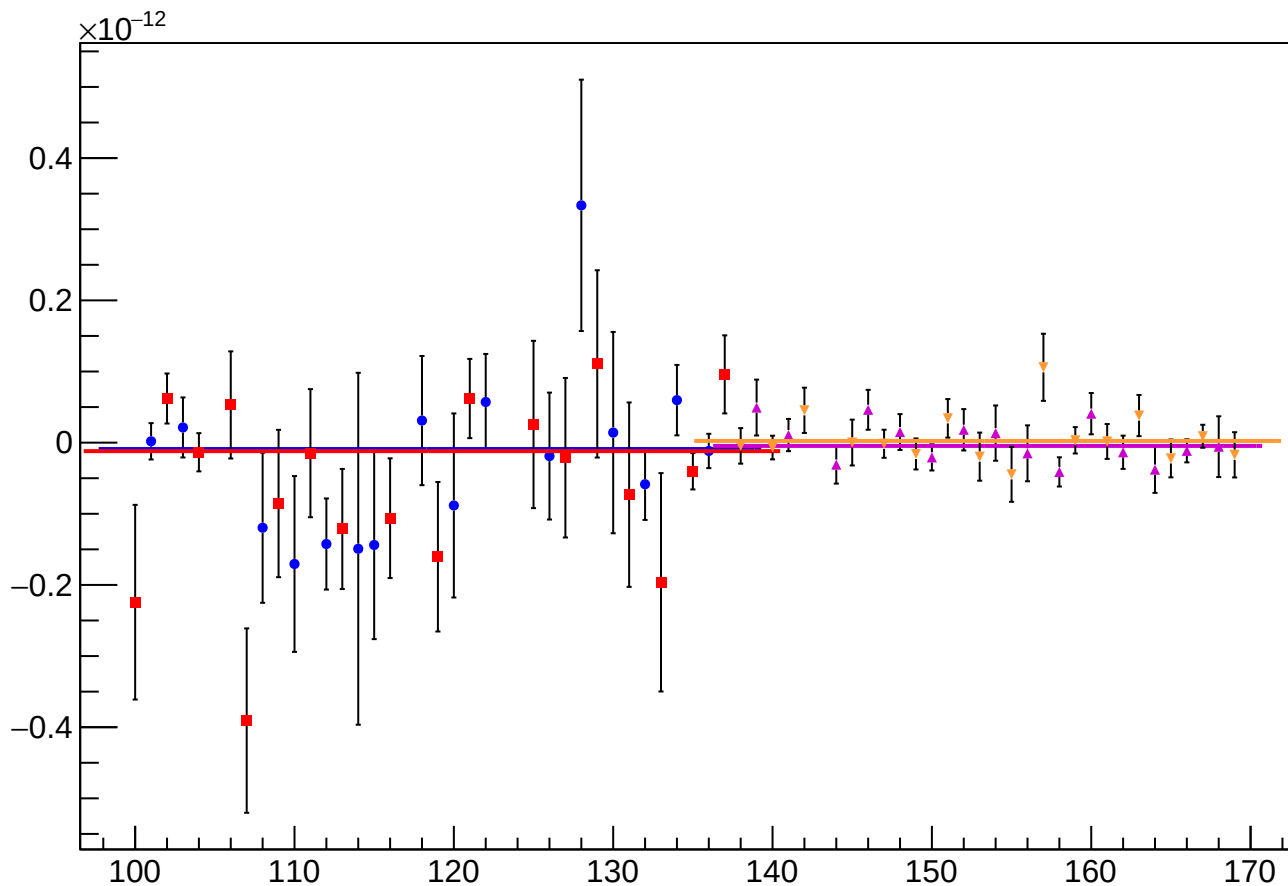
Right: 82.179 $\pm$ 0.016 χ^2 /NDF: 1035971.3/33

In: 83.110 $\pm$ 0.014 χ^2 /NDF: 982854.7/30

Out: 83.501 $\pm$ 0.014 χ^2 /NDF: 1045370.0/33

All: 83.306 $\pm$ 0.010 χ^2 /NDF: 2028634.7/64

asym_us_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 17.4/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:14.0/15

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 31.1/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:15.8/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 30.4/30

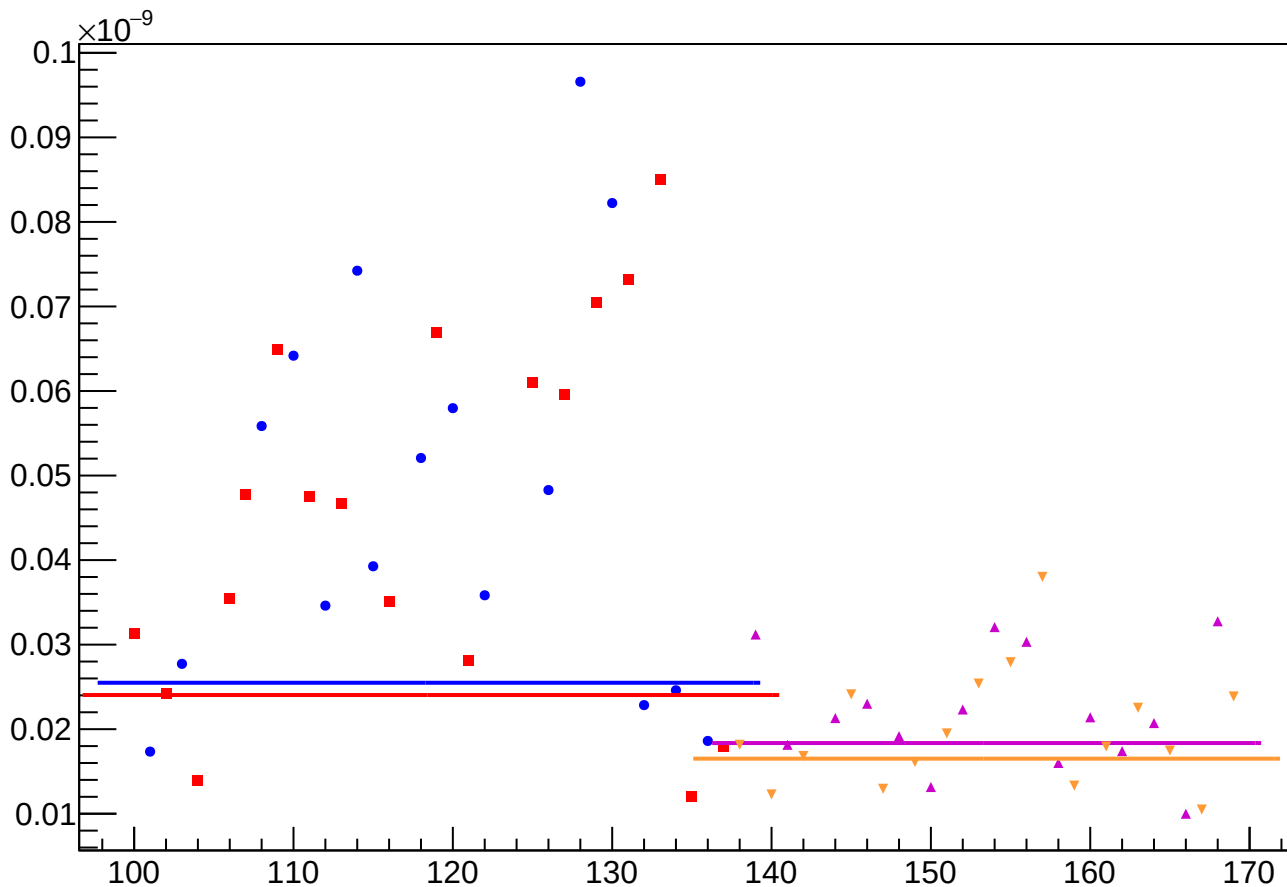
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 48.5/33

In: -0.000 $\pm$ 0.000 χ^2 /NDF:33.4/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:46.0/33

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 79.8/64

asym_us_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1999848.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1607612.7/15

Right Out: 0.000+/-0.000 χ^2/NDF : 3084598.6/17

Left In: 0.000+/-0.000 χ^2/NDF : 1749764.8/14

Left: 0.000+/-0.000 χ^2/NDF : 3442429.1/30

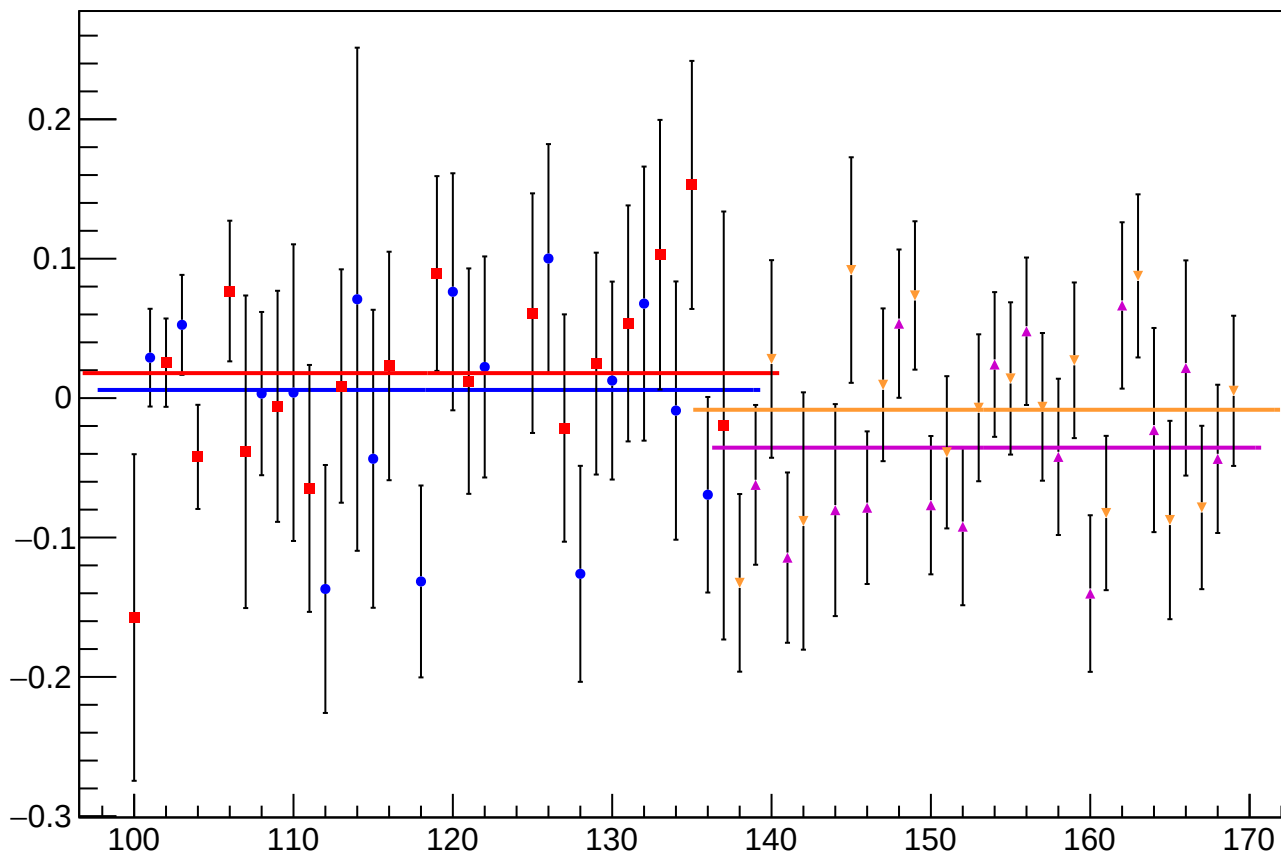
Right: 0.000+/-0.000 χ^2/NDF : 5096304.5/33

In: 0.000+/-0.000 χ^2/NDF : 4213948.6/30

Out: 0.000+/-0.000 χ^2/NDF : 5216192.0/33

All: 0.000+/-0.000 χ^2/NDF : 9550646.6/64

asym_us_avg_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 ± 0.017 $\chi^2/\text{NDF}: 15.6/15$

Left Out: -0.008 ± 0.015 $\chi^2/\text{NDF}: 16.9/15$

Right Out: 0.018 ± 0.016 $\chi^2/\text{NDF}: 12.3/17$

Left In: -0.036 ± 0.015 $\chi^2/\text{NDF}: 18.2/14$

Left: -0.022 ± 0.011 $\chi^2/\text{NDF}: 36.8/30$

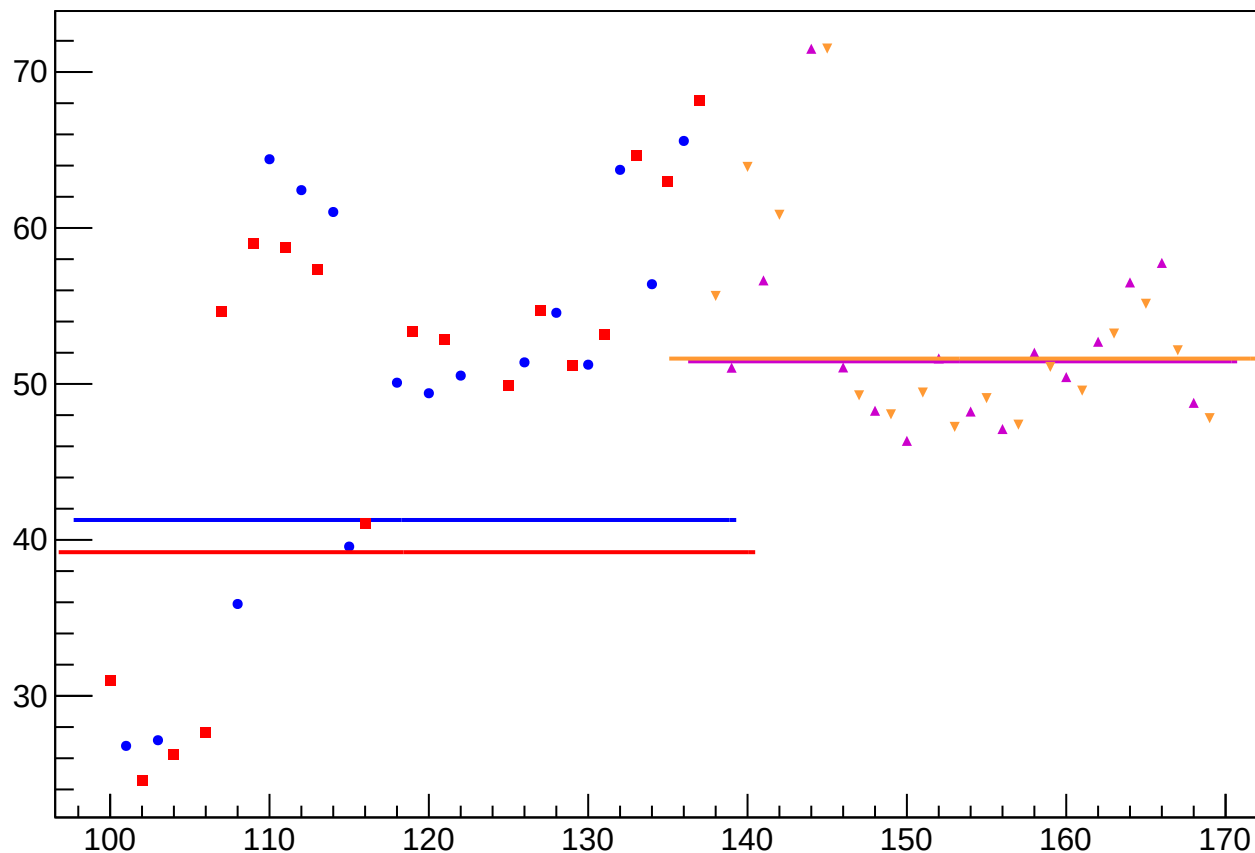
Right: 0.012 ± 0.011 $\chi^2/\text{NDF}: 28.2/33$

In: -0.017 ± 0.011 $\chi^2/\text{NDF}: 37.2/30$

Out: 0.004 ± 0.011 $\chi^2/\text{NDF}: 30.7/33$

All: -0.006 ± 0.008 $\chi^2/\text{NDF}: 69.8/64$

asym_us_avg_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.277+/-0.012 χ^2/NDF : 1505245.8/15

Left Out: 51.626+/-0.010 χ^2/NDF : 275156.0/15

Right Out: 39.212+/-0.011 χ^2/NDF : 1819921.9/17

Left In: 51.449+/-0.011 χ^2/NDF : 232654.4/14

Left: 51.538+/-0.007 χ^2/NDF : 507951.2/30

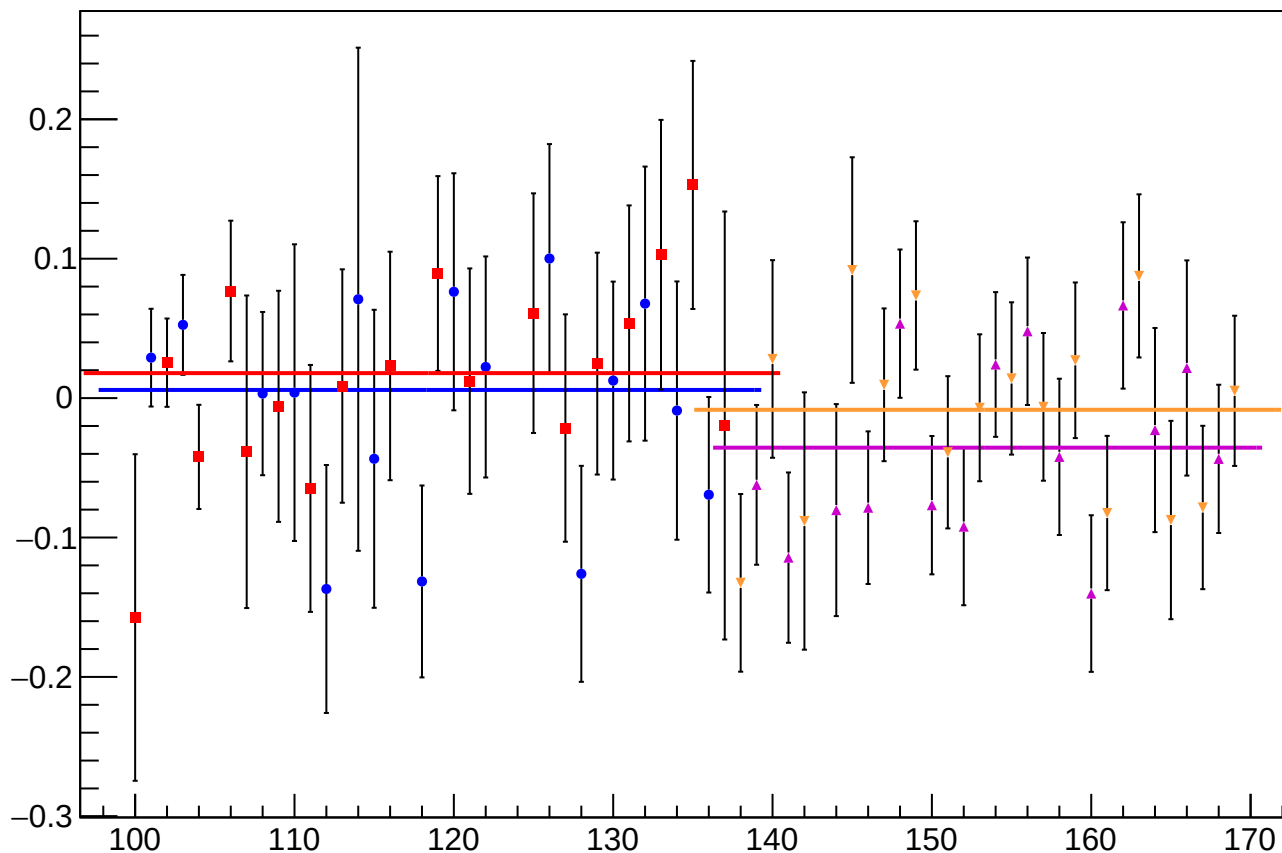
Right: 40.194+/-0.008 χ^2/NDF : 3341542.4/33

In: 46.889+/-0.008 χ^2/NDF : 2156007.0/30

Out: 45.796+/-0.008 χ^2/NDF : 2755338.9/33

All: 46.328+/-0.005 χ^2/NDF : 4921362.2/64

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 ± 0.017 $\chi^2/\text{NDF}: 15.6/15$

Left Out: -0.008 ± 0.015 $\chi^2/\text{NDF}: 16.9/15$

Right Out: 0.018 ± 0.016 $\chi^2/\text{NDF}: 12.3/17$

Left In: -0.036 ± 0.015 $\chi^2/\text{NDF}: 18.2/14$

Left: -0.022 ± 0.011 $\chi^2/\text{NDF}: 36.8/30$

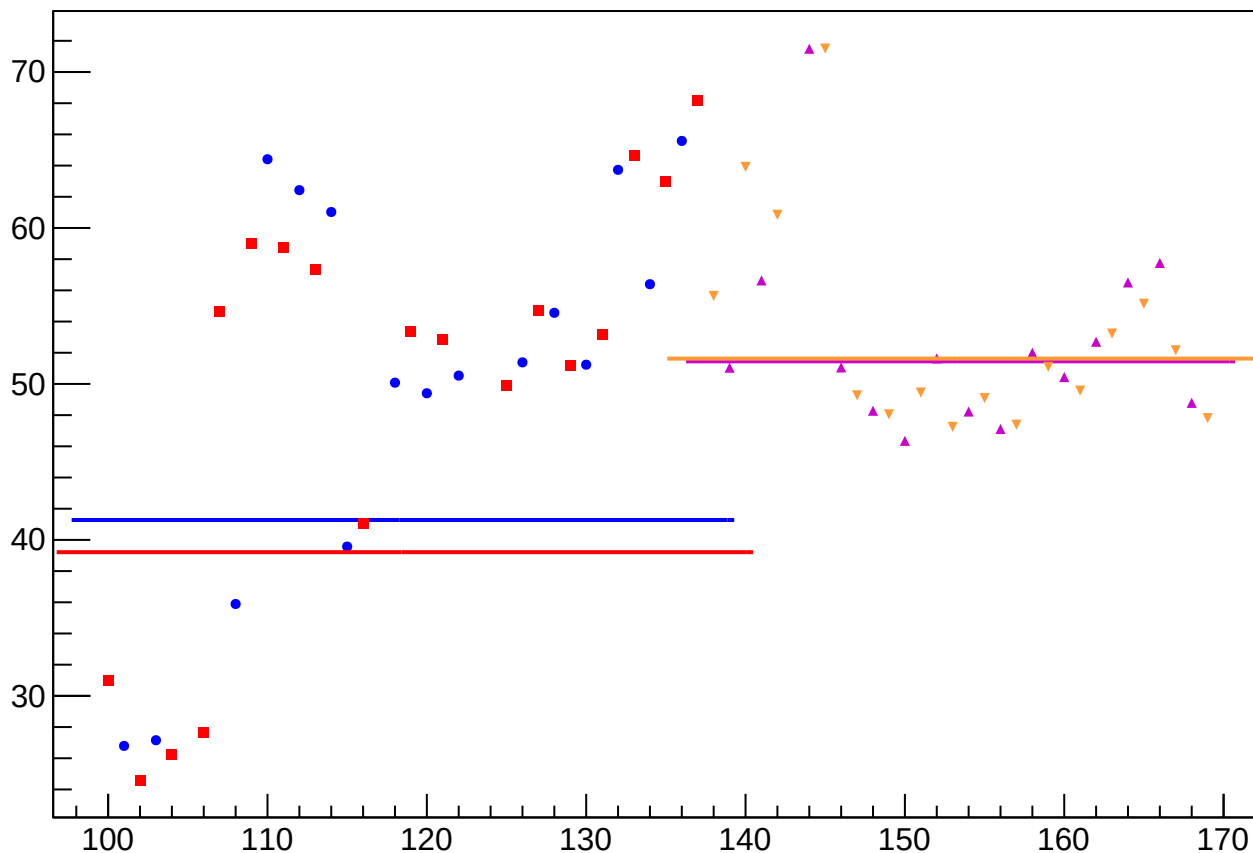
Right: 0.012 ± 0.011 $\chi^2/\text{NDF}: 28.2/33$

In: -0.017 ± 0.011 $\chi^2/\text{NDF}: 37.2/30$

Out: 0.004 ± 0.011 $\chi^2/\text{NDF}: 30.7/33$

All: -0.006 ± 0.008 $\chi^2/\text{NDF}: 69.8/64$

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.277+/-0.012 χ^2/NDF : 1505245.8/15

Left Out: 51.626+/-0.010 χ^2/NDF : 275156.0/15

Right Out: 39.212+/-0.011 χ^2/NDF : 1819921.9/17

Left In: 51.449+/-0.011 χ^2/NDF : 232654.4/14

Left: 51.538+/-0.007 χ^2/NDF : 507951.2/30

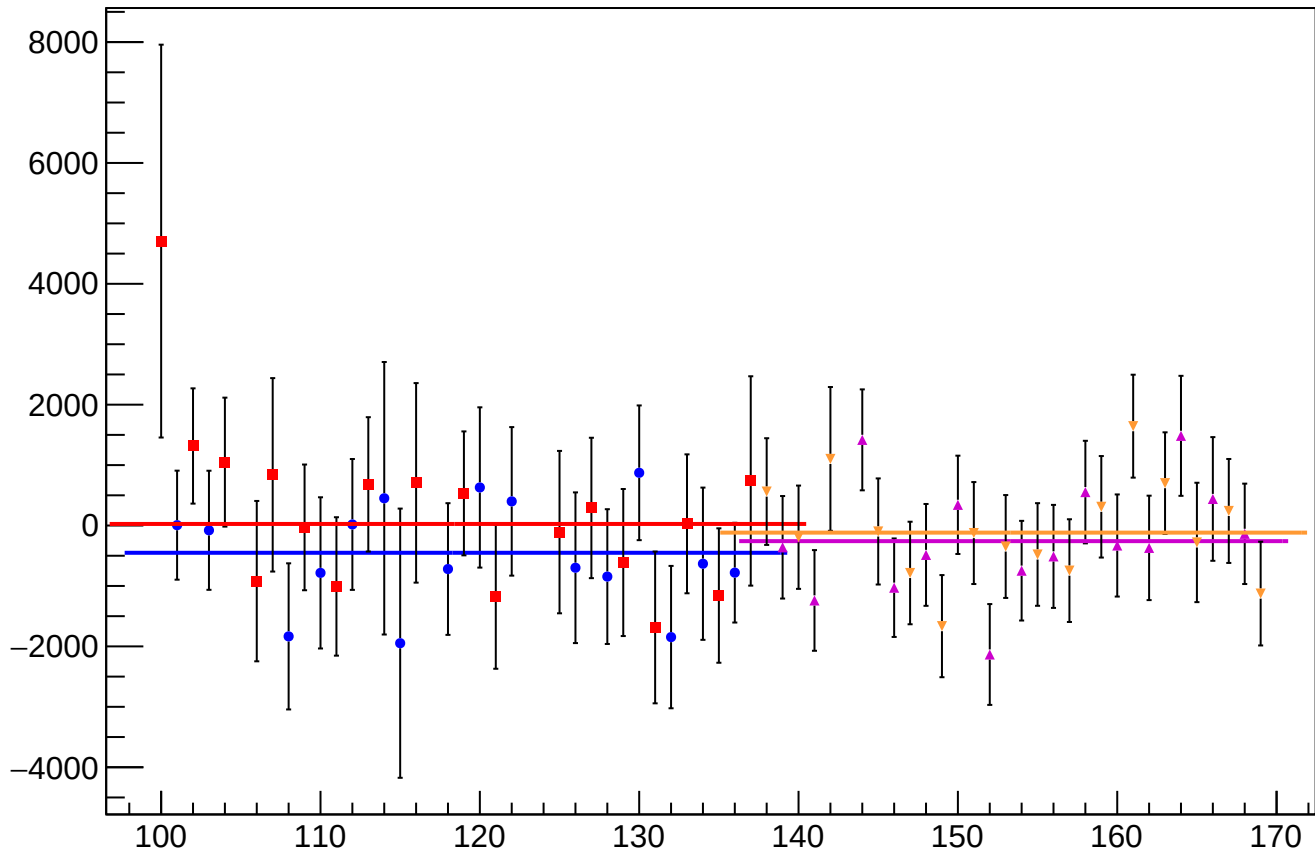
Right: 40.194+/-0.008 χ^2/NDF : 3341542.4/33

In: 46.889+/-0.008 χ^2/NDF : 2156007.0/30

Out: 45.796+/-0.008 χ^2/NDF : 2755338.9/33

All: 46.328+/-0.005 χ^2/NDF : 4921362.2/64

reg_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -450.953 ± 288.950 χ^2/NDF : 6.9/15

Left Out: -117.320 ± 218.508 χ^2/NDF : 13.5/15

Right Out: 26.099 ± 288.079 χ^2/NDF : 11.7/17

Left In: -258.342 ± 220.751 χ^2/NDF : 16.9/14

Left: -187.111 ± 155.295 χ^2/NDF : 30.6/30

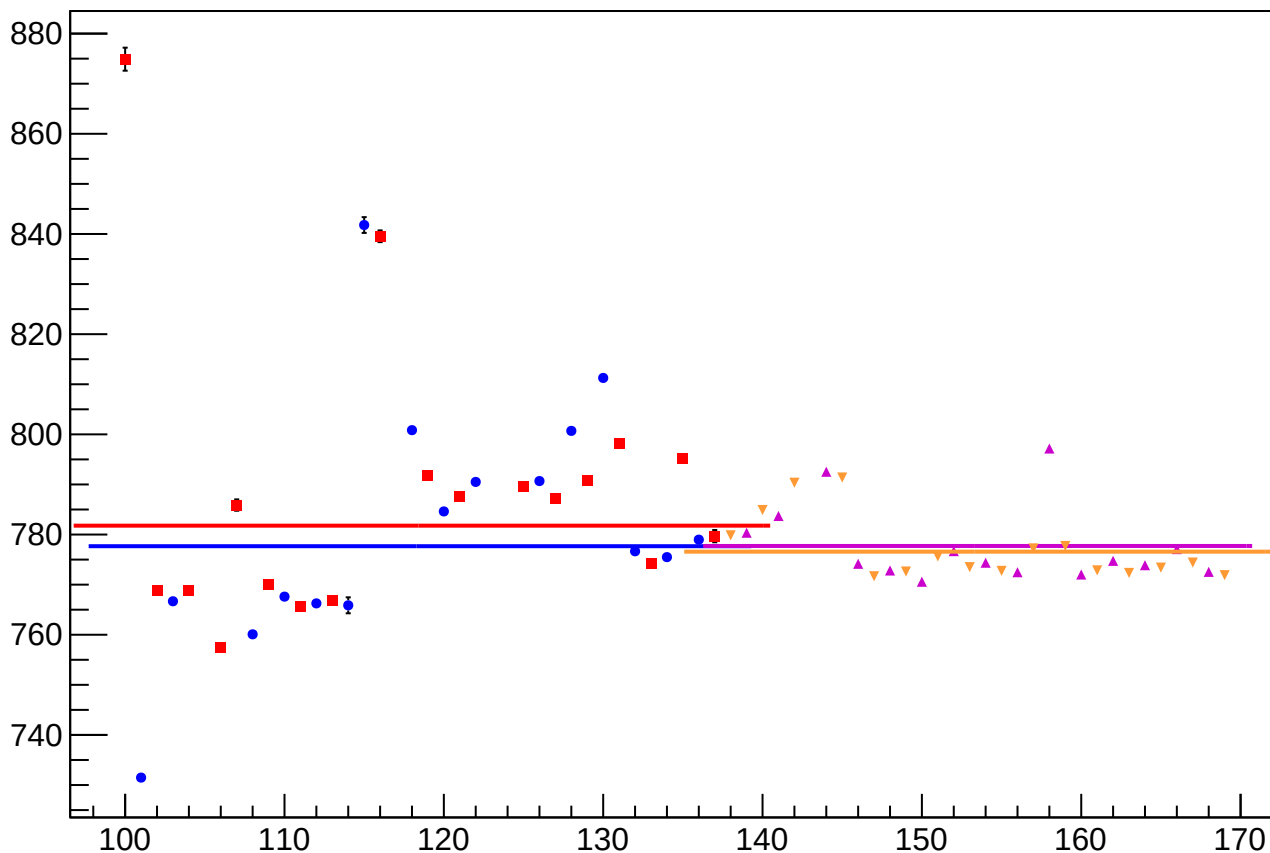
Right: -211.707 ± 204.010 χ^2/NDF : 20.0/33

In: -329.329 ± 175.417 χ^2/NDF : 24.2/30

Out: -64.942 ± 174.093 χ^2/NDF : 25.3/33

All: -196.134 ± 123.568 χ^2/NDF : 50.6/64

reg_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 777.674 $\pm$ 0.204 χ^2 /NDF: 12055.4/15

Left Out: 776.584 $\pm$ 0.155 χ^2 /NDF: 1420.9/15

Right Out: 781.777 $\pm$ 0.204 χ^2 /NDF: 7626.3/17

Left In: 777.721 $\pm$ 0.156 χ^2 /NDF: 2397.3/14

Left: 777.147 $\pm$ 0.110 χ^2 /NDF: 3845.0/30

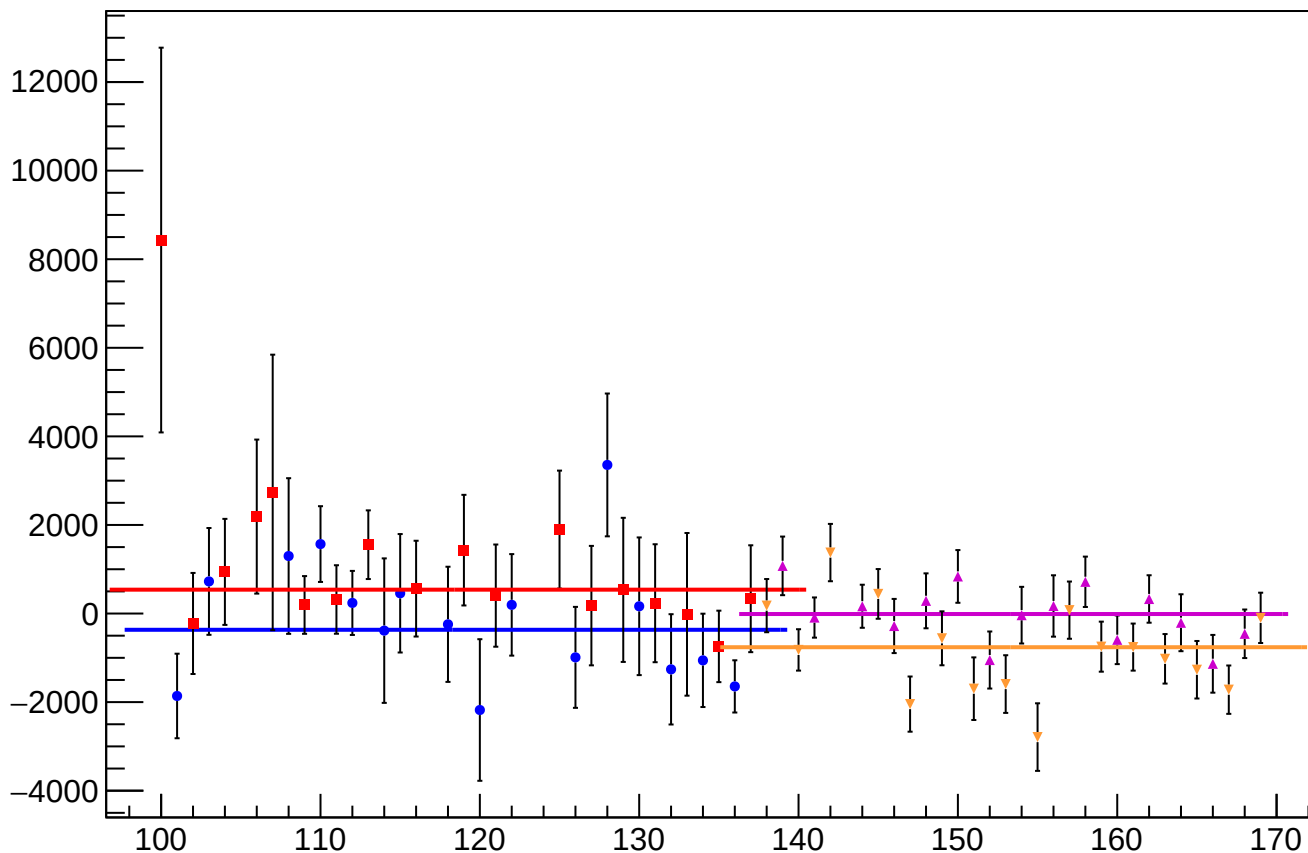
Right: 779.732 $\pm$ 0.144 χ^2 /NDF: 19883.9/33

In: 777.704 $\pm$ 0.124 χ^2 /NDF: 14452.8/30

Out: 778.480 $\pm$ 0.123 χ^2 /NDF: 9459.7/33

All: 778.095 $\pm$ 0.087 χ^2 /NDF: 23932.2/64

asym_us_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -367.008 $\pm$ 266.698 χ^2 /NDF: 23.3/15

Left Out: -760.592 $\pm$ 148.476 χ^2 /NDF:39.7/15

Right Out: 538.887 $\pm$ 262.907 χ^2 /NDF: 11.7/17

Left In: -11.028 $\pm$ 150.082 χ^2 /NDF:14.9/14

Left: -389.843 $\pm$ 105.552 χ^2 /NDF: 67.2/30

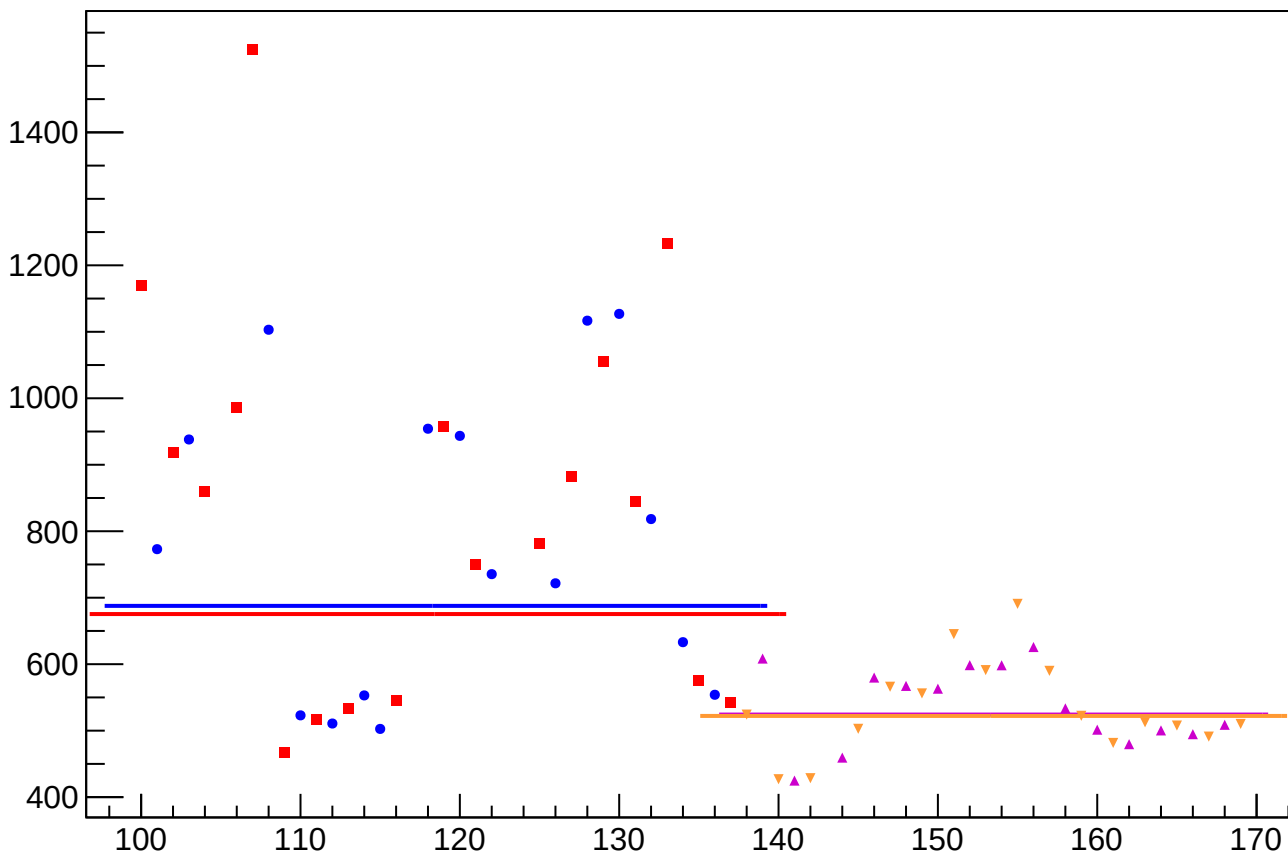
Right: 92.424 $\pm$ 187.229 χ^2 /NDF: 40.8/33

In: -96.646 $\pm$ 130.795 χ^2 /NDF:39.5/30

Out: -446.359 $\pm$ 129.284 χ^2 /NDF:69.9/33

All: -273.534 $\pm$ 91.947 χ^2 /NDF: 113.1/64

asym_us_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 687.717+/-0.189 χ^2/NDF : 1031906.6/15

Left Out: 522.154+/-0.105 χ^2/NDF : 366831.4/15

Right Out: 675.410+/-0.186 χ^2/NDF : 1313004.6/17

Left In: 524.214+/-0.106 χ^2/NDF : 321184.7/14

Left: 523.173+/-0.075 χ^2/NDF : 688206.3/30

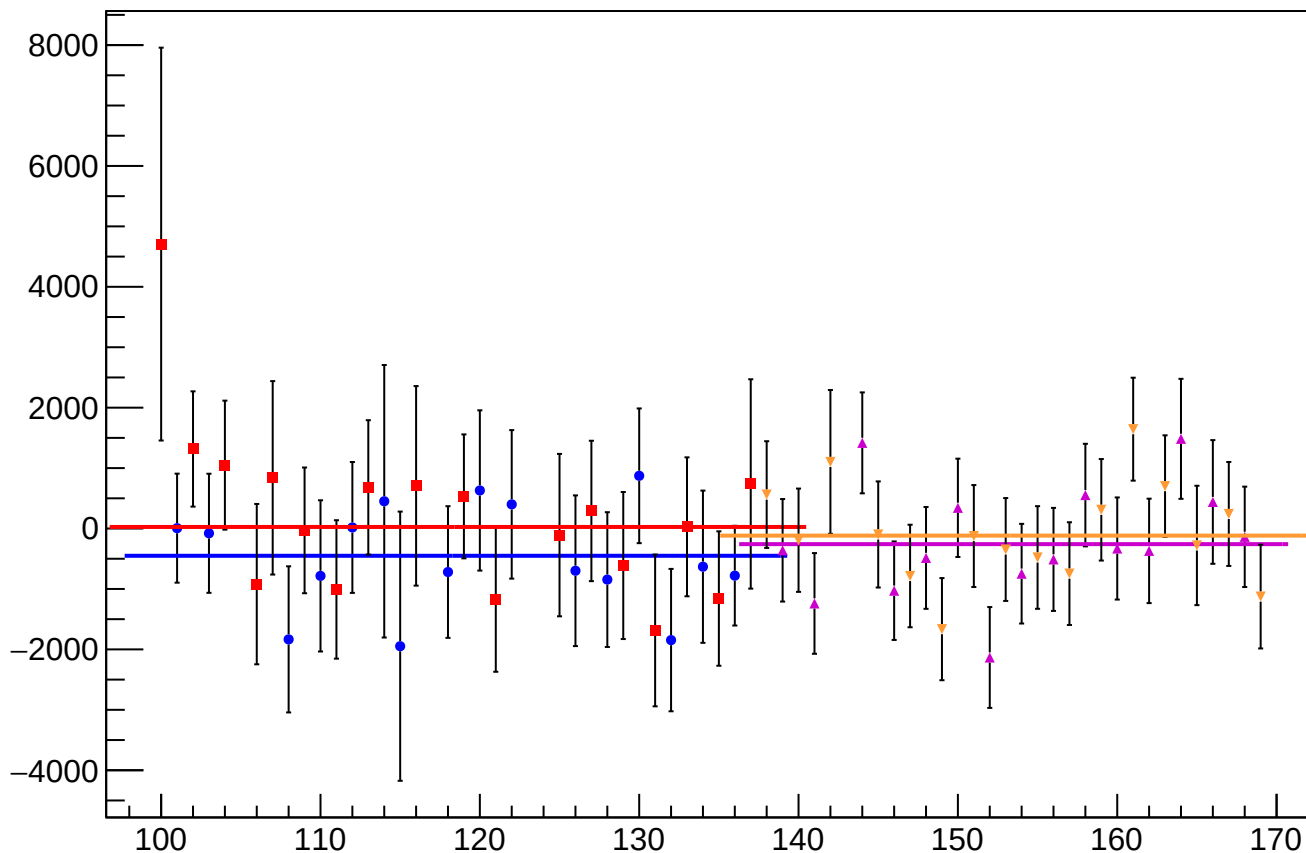
Right: 681.475+/-0.132 χ^2/NDF : 2347071.2/33

In: 563.538+/-0.092 χ^2/NDF : 1923994.5/30

Out: 559.214+/-0.091 χ^2/NDF : 2195101.3/33

All: 561.351+/-0.065 χ^2/NDF : 4120201.7/64

cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -450.953 ± 288.950 $\chi^2/\text{NDF}: 6.9/15$

Left Out: -117.320 ± 218.508 $\chi^2/\text{NDF}: 13.5/15$

Right Out: 26.099 ± 288.079 $\chi^2/\text{NDF}: 11.7/17$

Left In: -258.342 ± 220.751 $\chi^2/\text{NDF}: 16.9/14$

Left: -187.111 ± 155.295 $\chi^2/\text{NDF}: 30.6/30$

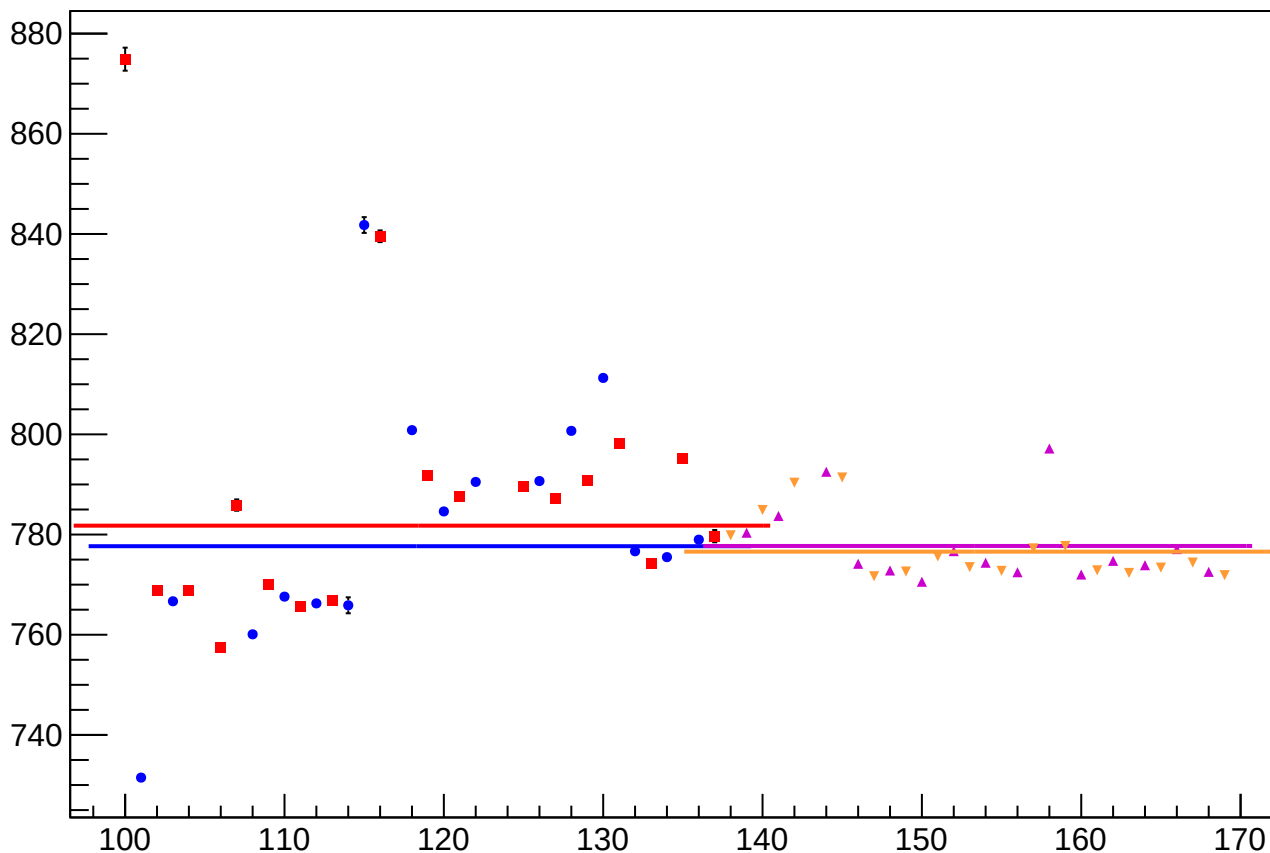
Right: -211.707 ± 204.010 $\chi^2/\text{NDF}: 20.0/33$

In: -329.329 ± 175.417 $\chi^2/\text{NDF}: 24.2/30$

Out: -64.942 ± 174.093 $\chi^2/\text{NDF}: 25.3/33$

All: -196.134 ± 123.568 $\chi^2/\text{NDF}: 50.6/64$

cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 777.674 $\pm$ 0.204 χ^2/NDF : 12055.4/15

Left Out: 776.584 $\pm$ 0.155 χ^2/NDF :1420.9/15

Right Out: 781.777 $\pm$ 0.204 χ^2/NDF : 7626.3/17

Left In: 777.721 $\pm$ 0.156 χ^2/NDF :2397.3/14

Left: 777.147 $\pm$ 0.110 χ^2/NDF : 3845.0/30

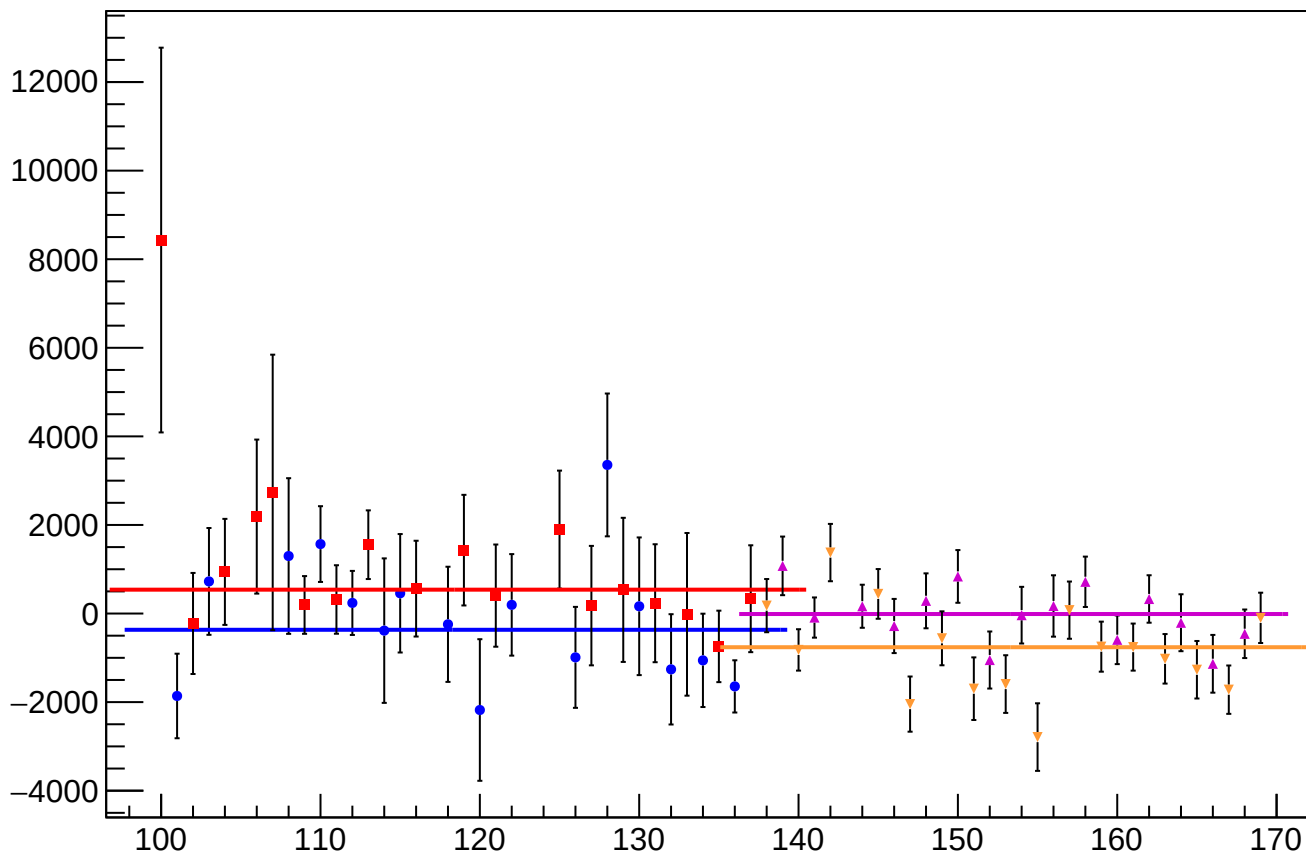
Right: 779.732 $\pm$ 0.144 χ^2/NDF : 19883.9/33

In: 777.704 $\pm$ 0.124 χ^2/NDF :14452.8/30

Out: 778.480 $\pm$ 0.123 χ^2/NDF :9459.7/33

All: 778.095 $\pm$ 0.087 χ^2/NDF : 23932.2/64

asym_us_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -367.008 $\pm$ 266.698 χ^2 /NDF: 23.3/15

Left Out: -760.592 $\pm$ 148.476 χ^2 /NDF:39.7/15

Right Out: 538.887 $\pm$ 262.907 χ^2 /NDF: 11.7/17

Left In: -11.028 $\pm$ 150.082 χ^2 /NDF:14.9/14

Left: -389.843 $\pm$ 105.552 χ^2 /NDF: 67.2/30

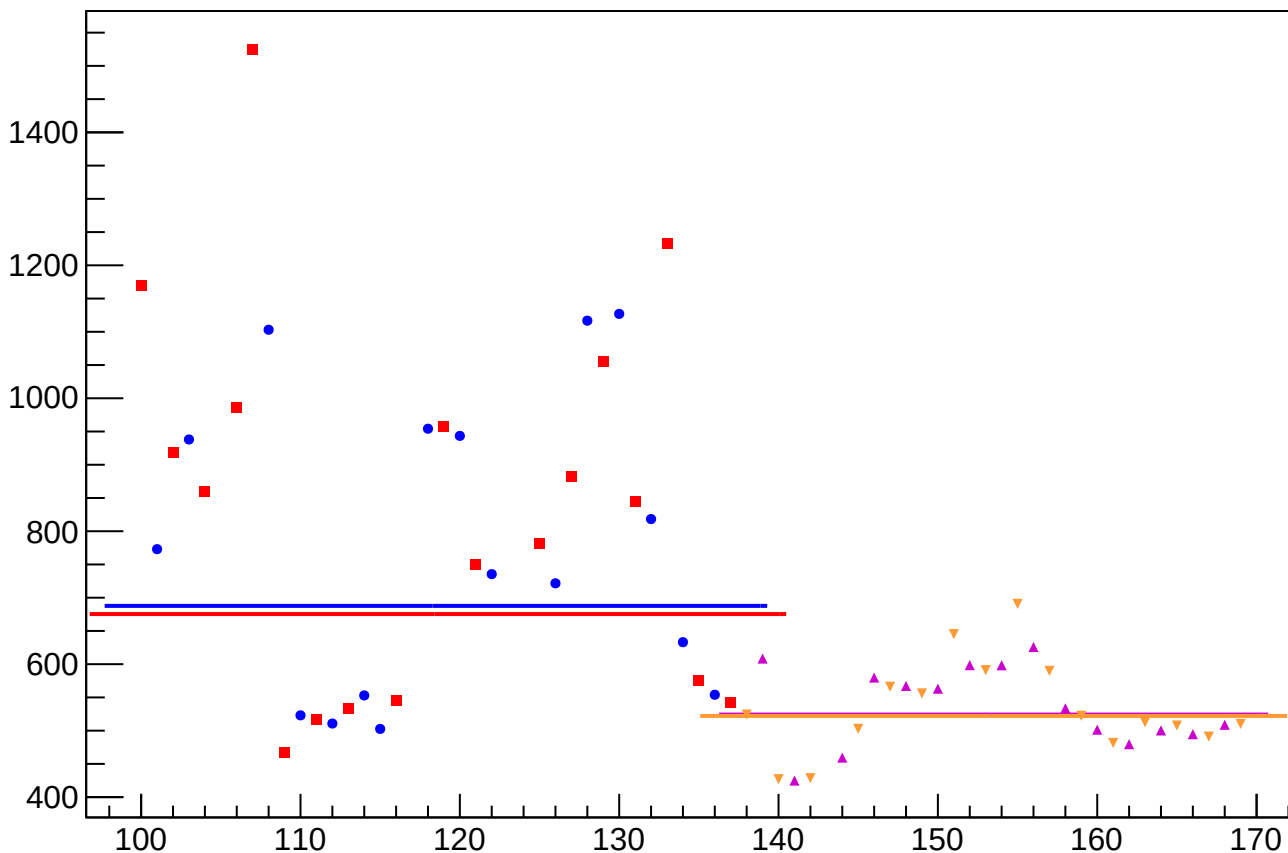
Right: 92.424 $\pm$ 187.229 χ^2 /NDF: 40.8/33

In: -96.646 $\pm$ 130.795 χ^2 /NDF:39.5/30

Out: -446.359 $\pm$ 129.284 χ^2 /NDF:69.9/33

All: -273.534 $\pm$ 91.947 χ^2 /NDF: 113.1/64

asym_us_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 687.717+/-0.189 χ^2/NDF : 1031906.6/15

Left Out: 522.154+/-0.105 χ^2/NDF : 366831.4/15

Right Out: 675.410+/-0.186 χ^2/NDF : 1313004.6/17

Left In: 524.214+/-0.106 χ^2/NDF : 321184.7/14

Left: 523.173+/-0.075 χ^2/NDF : 688206.3/30

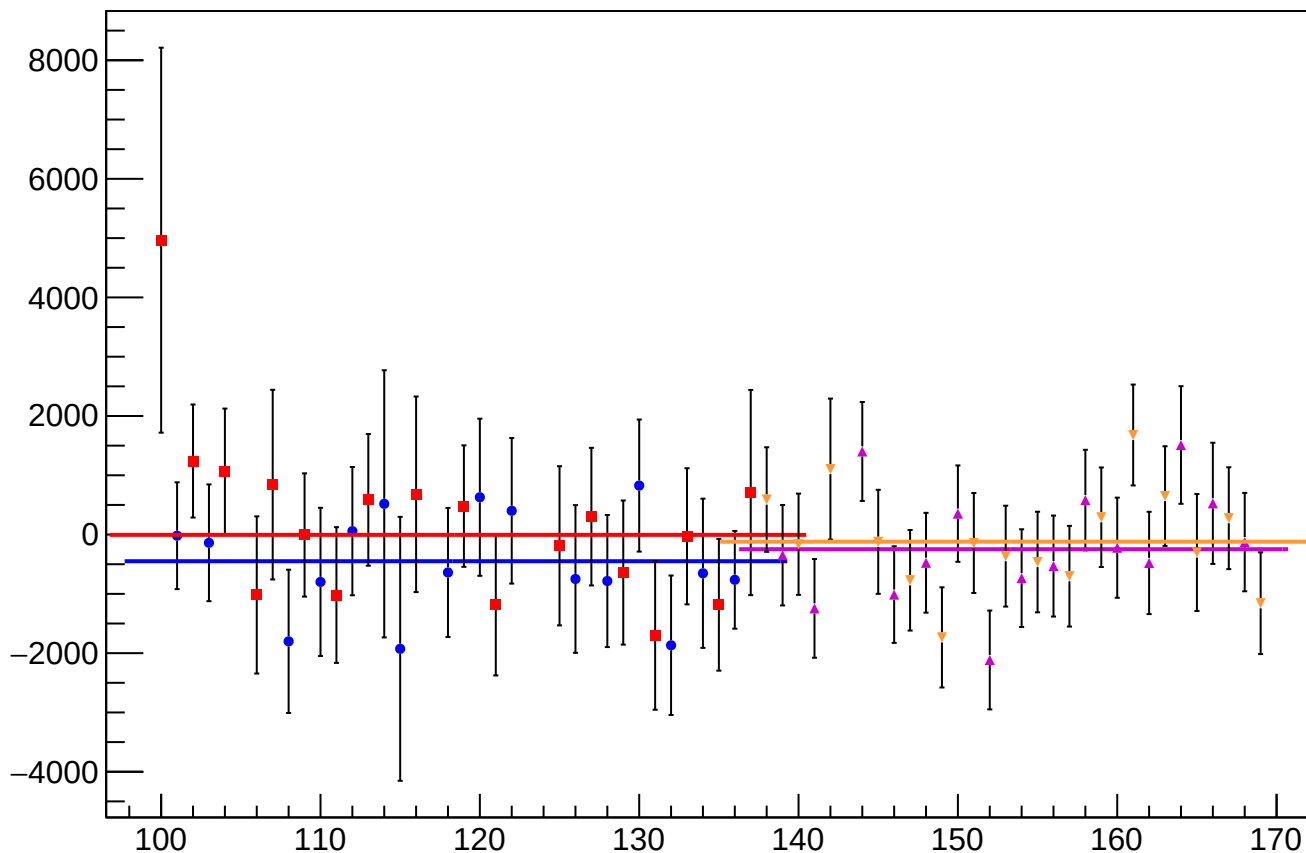
Right: 681.475+/-0.132 χ^2/NDF : 2347071.2/33

In: 563.538+/-0.092 χ^2/NDF : 1923994.5/30

Out: 559.214+/-0.091 χ^2/NDF : 2195101.3/33

All: 561.351+/-0.065 χ^2/NDF : 4120201.7/64

overload_cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -449.430 ± 288.668 $\chi^2/\text{NDF}: 6.8/15$

Left Out: -120.132 ± 218.308 $\chi^2/\text{NDF}: 13.9/15$

Right Out: -4.645 ± 287.815 $\chi^2/\text{NDF}: 11.8/17$

Left In: -246.826 ± 220.553 $\chi^2/\text{NDF}: 17.1/14$

Left: -182.831 ± 155.155 $\chi^2/\text{NDF}: 31.2/30$

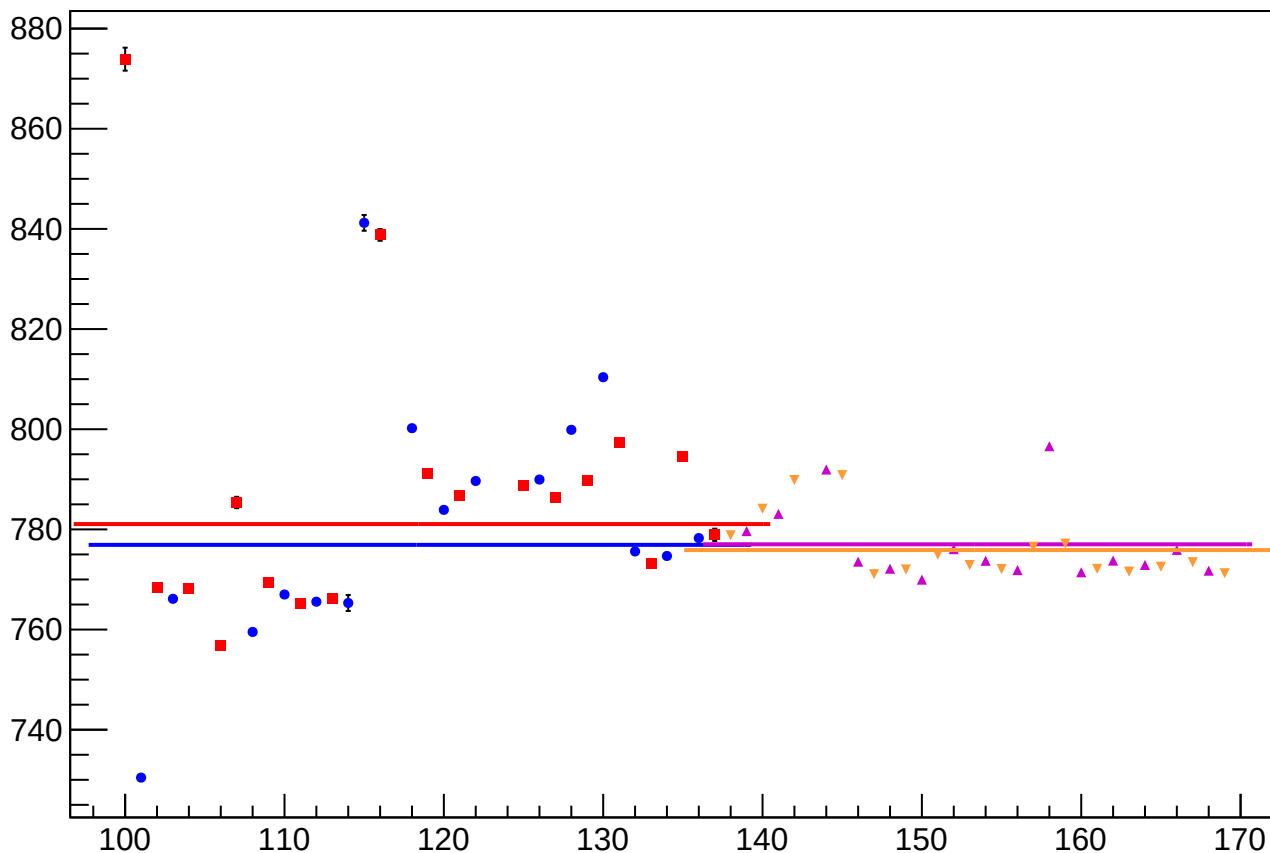
Right: -226.380 ± 203.817 $\chi^2/\text{NDF}: 19.8/33$

In: -321.504 ± 175.255 $\chi^2/\text{NDF}: 24.2/30$

Out: -77.955 ± 173.934 $\chi^2/\text{NDF}: 25.9/33$

All: -198.808 ± 123.454 $\chi^2/\text{NDF}: 51.0/64$

overload_cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 776.913+/-0.204 χ^2/NDF : 12123.6/15

Left Out: 775.874+/-0.154 χ^2/NDF :1435.6/15

Right Out: 781.061+/-0.204 χ^2/NDF : 7585.8/17

Left In: 777.023+/-0.156 χ^2/NDF :2427.8/14

Left: 776.443+/-0.110 χ^2/NDF : 3890.9/30

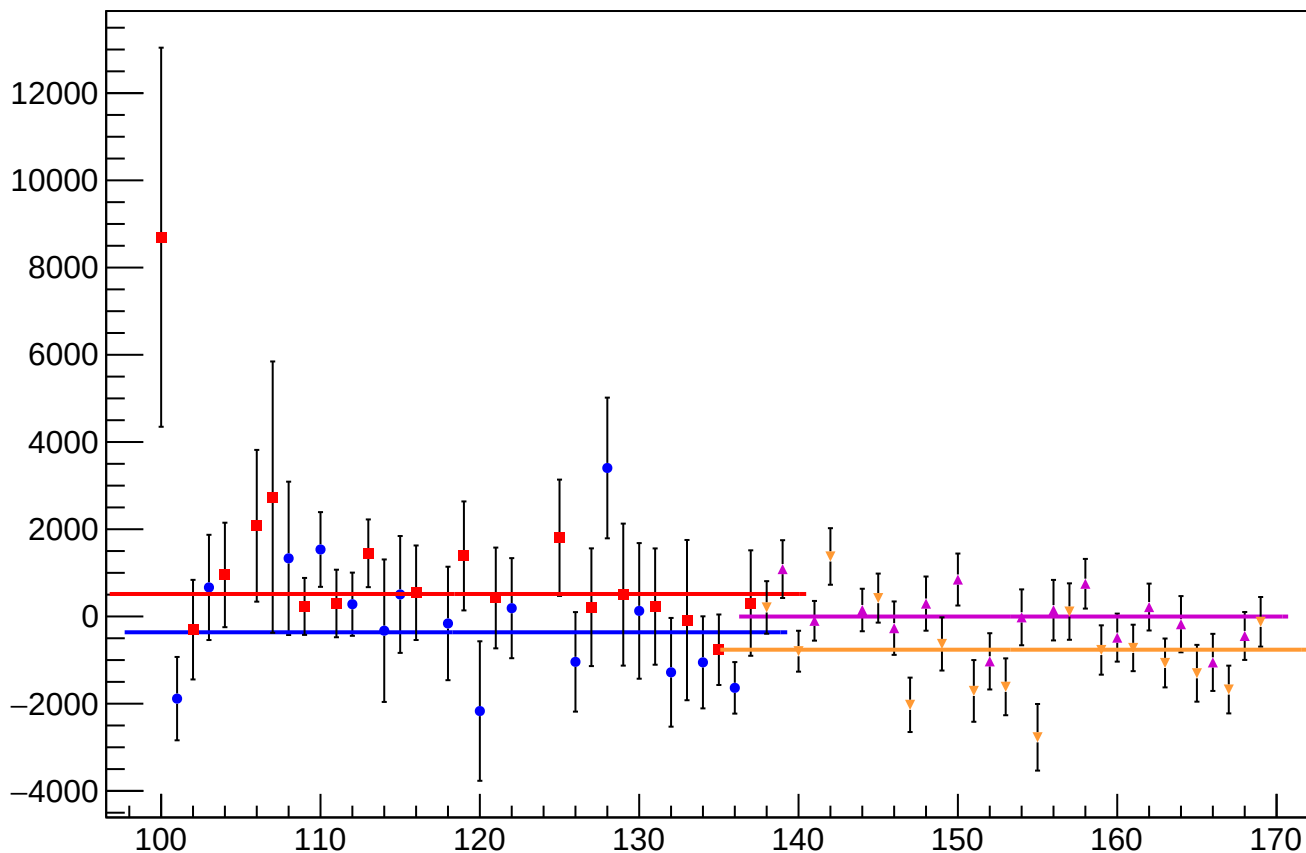
Right: 778.993+/-0.144 χ^2/NDF : 19916.4/33

In: 776.983+/-0.124 χ^2/NDF :14551.6/30

Out: 777.768+/-0.123 χ^2/NDF :9433.8/33

All: 777.378+/-0.087 χ^2/NDF : 24005.6/64

asym_us_dd_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: -362.811+/-267.086 χ^2/NDF : 23.4/15

Left Out: -762.255+/-148.797 χ^2/NDF :39.3/15

Right Out: 515.295+/-263.302 χ^2/NDF : 11.4/17

Left In: -1.879+/-150.399 χ^2/NDF :13.9/14

Left: -386.139+/-105.777 χ^2/NDF : 66.1/30

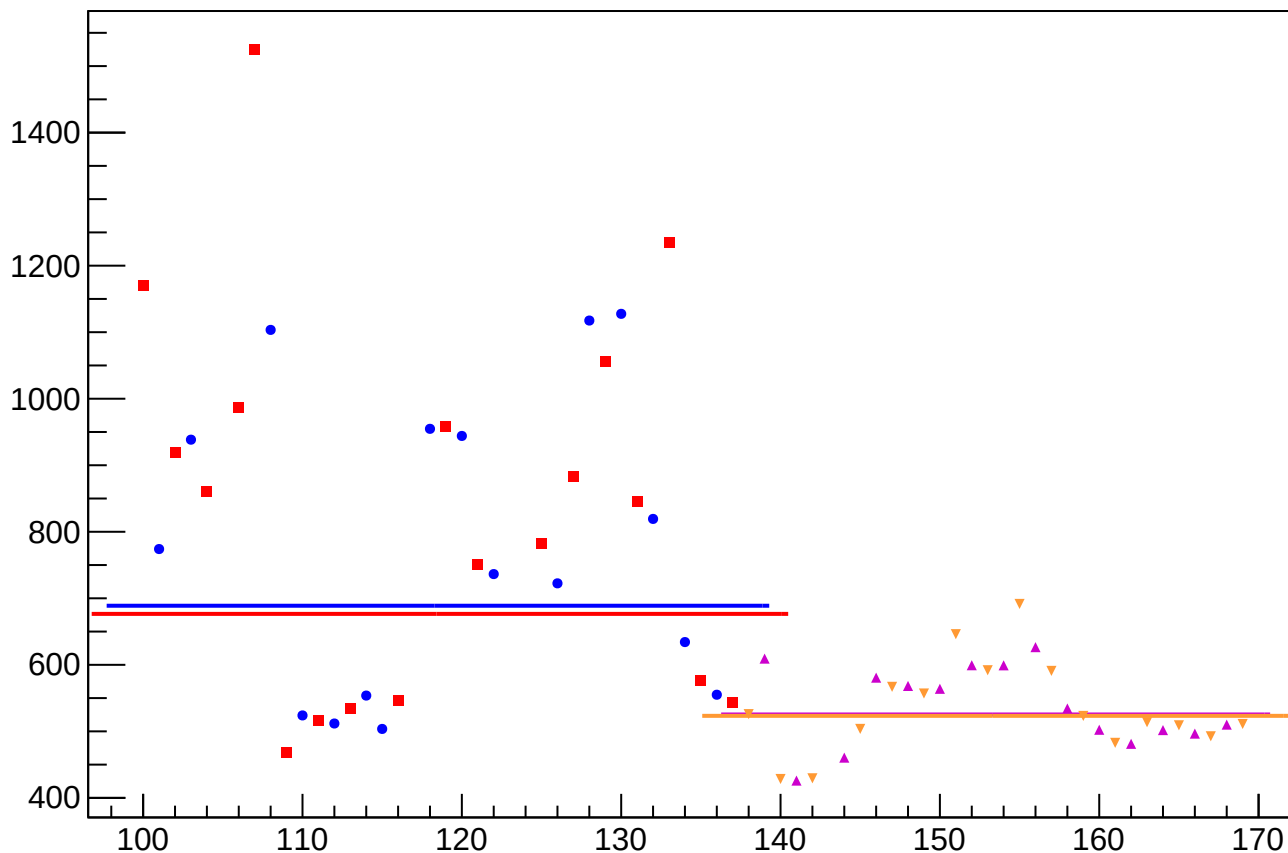
Right: 82.506+/-187.506 χ^2/NDF : 40.2/33

In: -88.774+/-131.050 χ^2/NDF :38.6/30

Out: -453.017+/-129.542 χ^2/NDF :68.5/33

All: -273.003+/-92.129 χ^2/NDF : 111.0/64

asym_us_dd_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 688.828+/-0.189 χ^2/NDF : 1028118.5/15

Left Out: 523.329+/-0.105 χ^2/NDF : 363625.7/15

Right Out: 676.572+/-0.186 χ^2/NDF : 1308036.1/17

Left In: 525.360+/-0.106 χ^2/NDF : 318217.2/14

Left: 524.334+/-0.075 χ^2/NDF : 682027.2/30

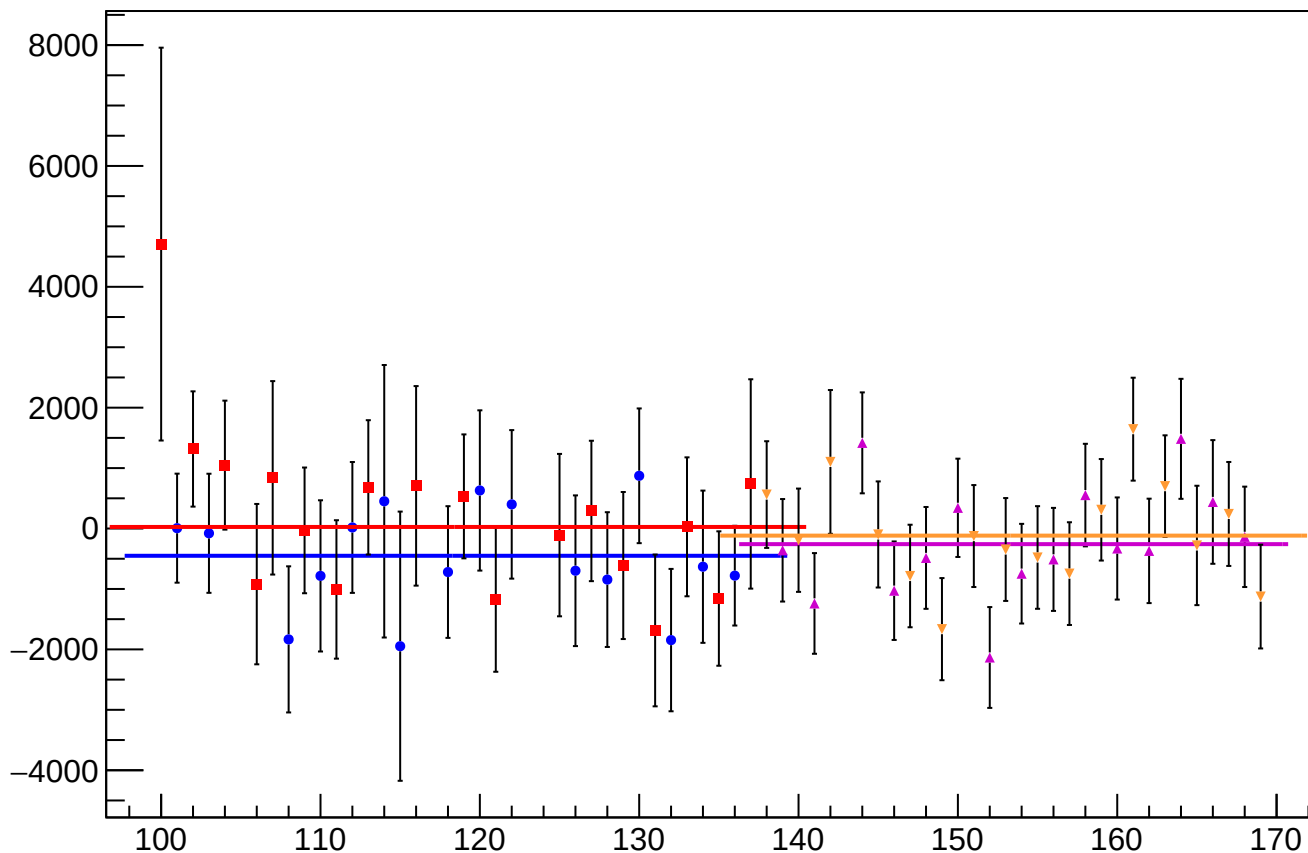
Right: 682.613+/-0.133 χ^2/NDF : 2338290.5/33

In: 564.716+/-0.093 χ^2/NDF : 1915162.4/30

Out: 560.423+/-0.092 χ^2/NDF : 2185135.8/33

All: 562.544+/-0.065 χ^2/NDF : 4101383.8/64

eigen_cor_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -450.953 $\pm$ 288.950 χ^2/NDF : 6.9/15

Left Out: -117.320 $\pm$ 218.508 χ^2/NDF :13.5/15

Right Out: 26.099 $\pm$ 288.079 χ^2/NDF : 11.7/17

Left In: -258.342 $\pm$ 220.751 χ^2/NDF :16.9/14

Left: -187.111 $\pm$ 155.295 χ^2/NDF : 30.6/30

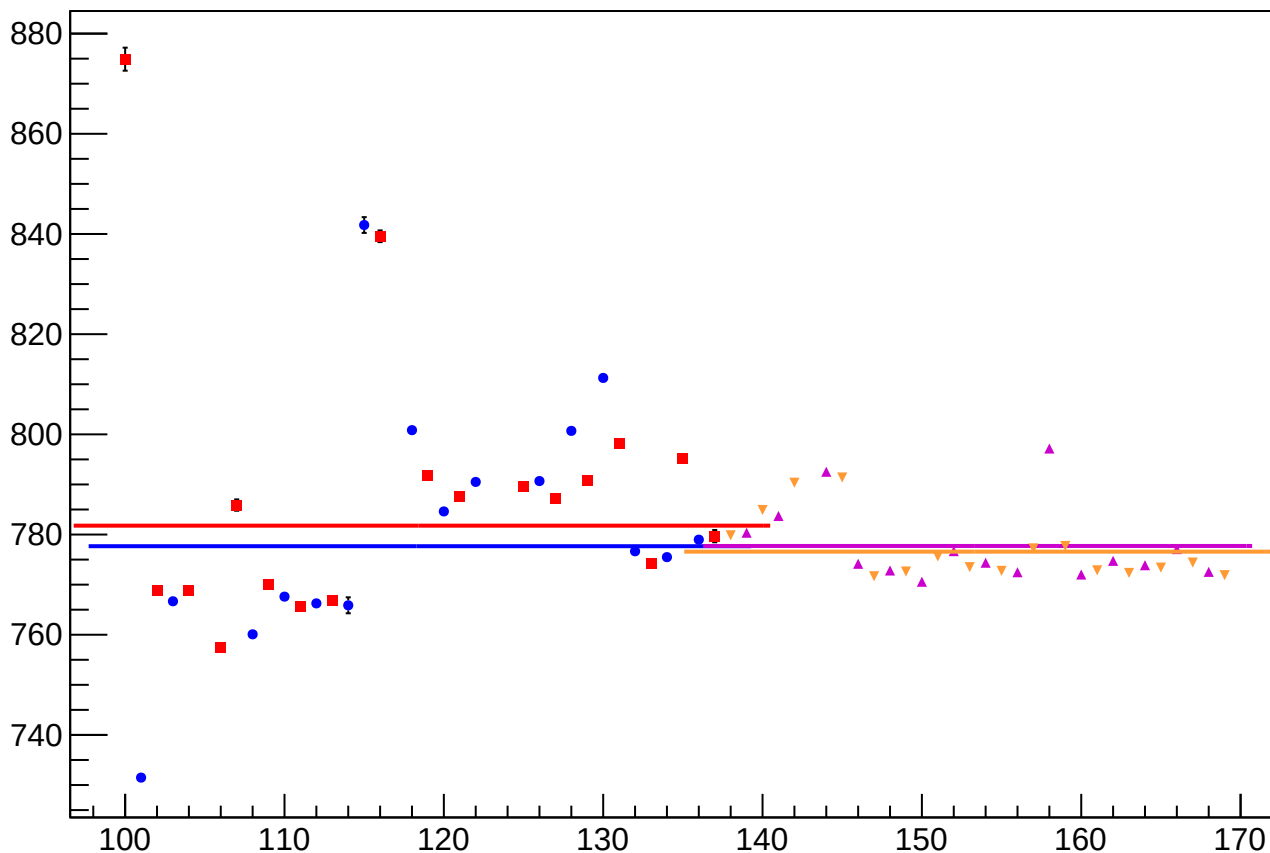
Right: -211.707 $\pm$ 204.010 χ^2/NDF : 20.0/33

In: -329.329 $\pm$ 175.417 χ^2/NDF :24.2/30

Out: -64.942 $\pm$ 174.093 χ^2/NDF :25.3/33

All: -196.134 $\pm$ 123.568 χ^2/NDF : 50.6/64

eigen_cor_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 777.674 ± 0.204 χ^2/NDF : 12055.4/15

Left Out: 776.584 ± 0.155 χ^2/NDF : 1420.9/15

Right Out: 781.777 ± 0.204 χ^2/NDF : 7626.3/17

Left In: 777.721 ± 0.156 χ^2/NDF : 2397.3/14

Left: 777.147 ± 0.110 χ^2/NDF : 3845.0/30

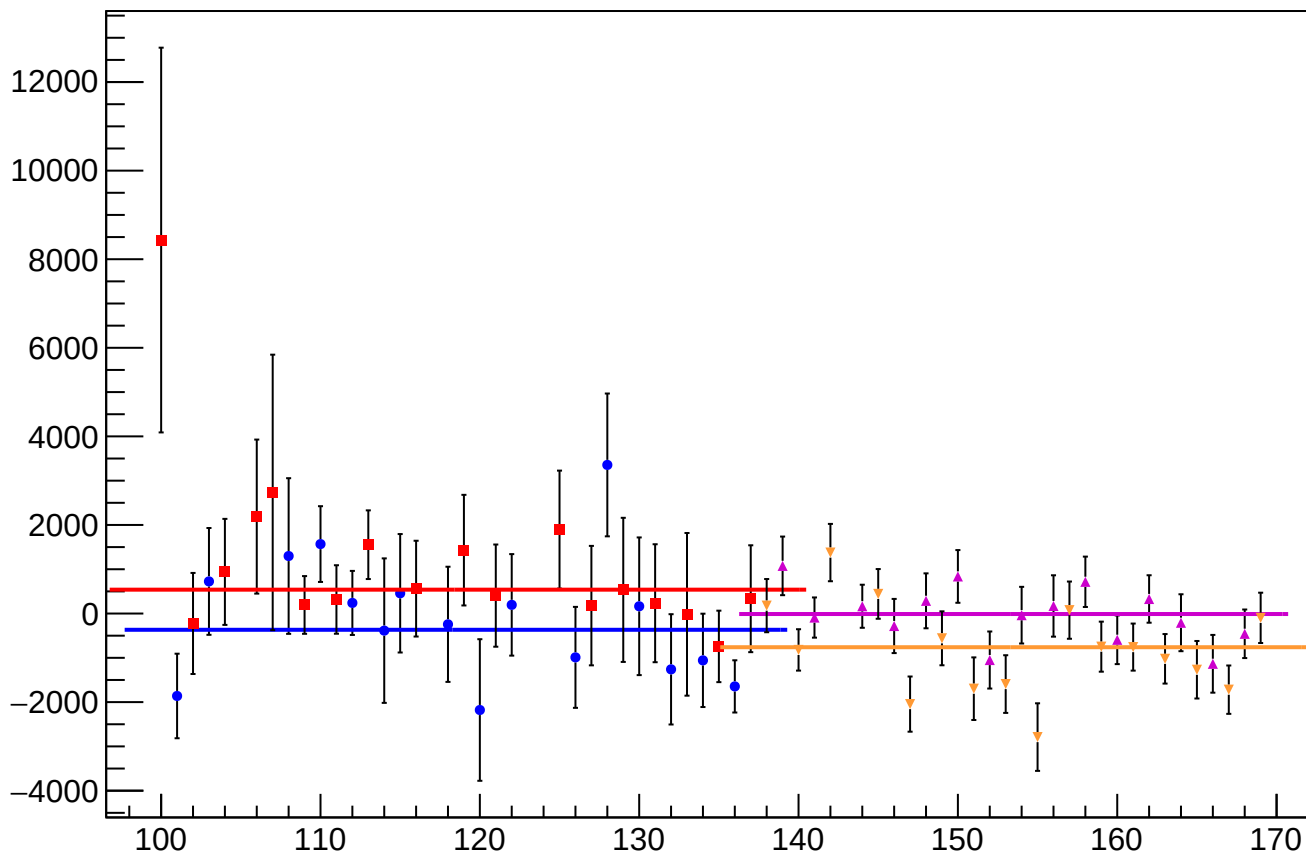
Right: 779.732 ± 0.144 χ^2/NDF : 19883.9/33

In: 777.704 ± 0.124 χ^2/NDF : 14452.8/30

Out: 778.480 ± 0.123 χ^2/NDF : 9459.7/33

All: 778.095 ± 0.087 χ^2/NDF : 23932.2/64

asym_us_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -367.008 ± 266.698 $\chi^2/\text{NDF}: 23.3/15$

Left Out: -760.592 ± 148.476 $\chi^2/\text{NDF}: 39.7/15$

Right Out: 538.887 ± 262.907 $\chi^2/\text{NDF}: 11.7/17$

Left In: -11.028 ± 150.082 $\chi^2/\text{NDF}: 14.9/14$

Left: -389.843 ± 105.552 $\chi^2/\text{NDF}: 67.2/30$

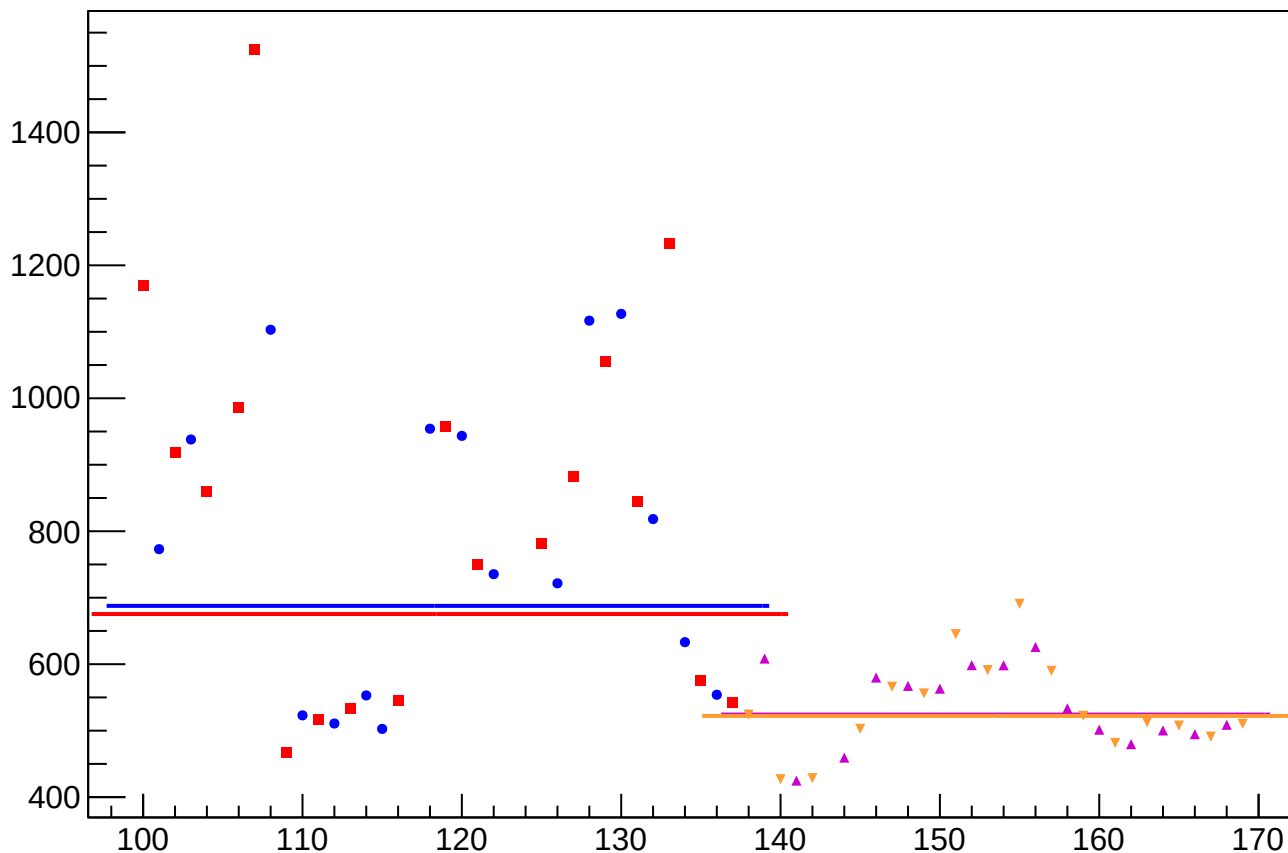
Right: 92.424 ± 187.229 $\chi^2/\text{NDF}: 40.8/33$

In: -96.646 ± 130.795 $\chi^2/\text{NDF}: 39.5/30$

Out: -446.359 ± 129.284 $\chi^2/\text{NDF}: 69.9/33$

All: -273.534 ± 91.947 $\chi^2/\text{NDF}: 113.1/64$

asym_us_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 687.717 $\pm$ 0.189 χ^2 /NDF: 1031906.6/15

Left Out: 522.154 $\pm$ 0.105 χ^2 /NDF:366831.4/15

Right Out: 675.410 $\pm$ 0.186 χ^2 /NDF: 1313004.6/17

Left In: 524.214 $\pm$ 0.106 χ^2 /NDF:321184.7/14

Left: 523.173 $\pm$ 0.075 χ^2 /NDF: 688206.3/30

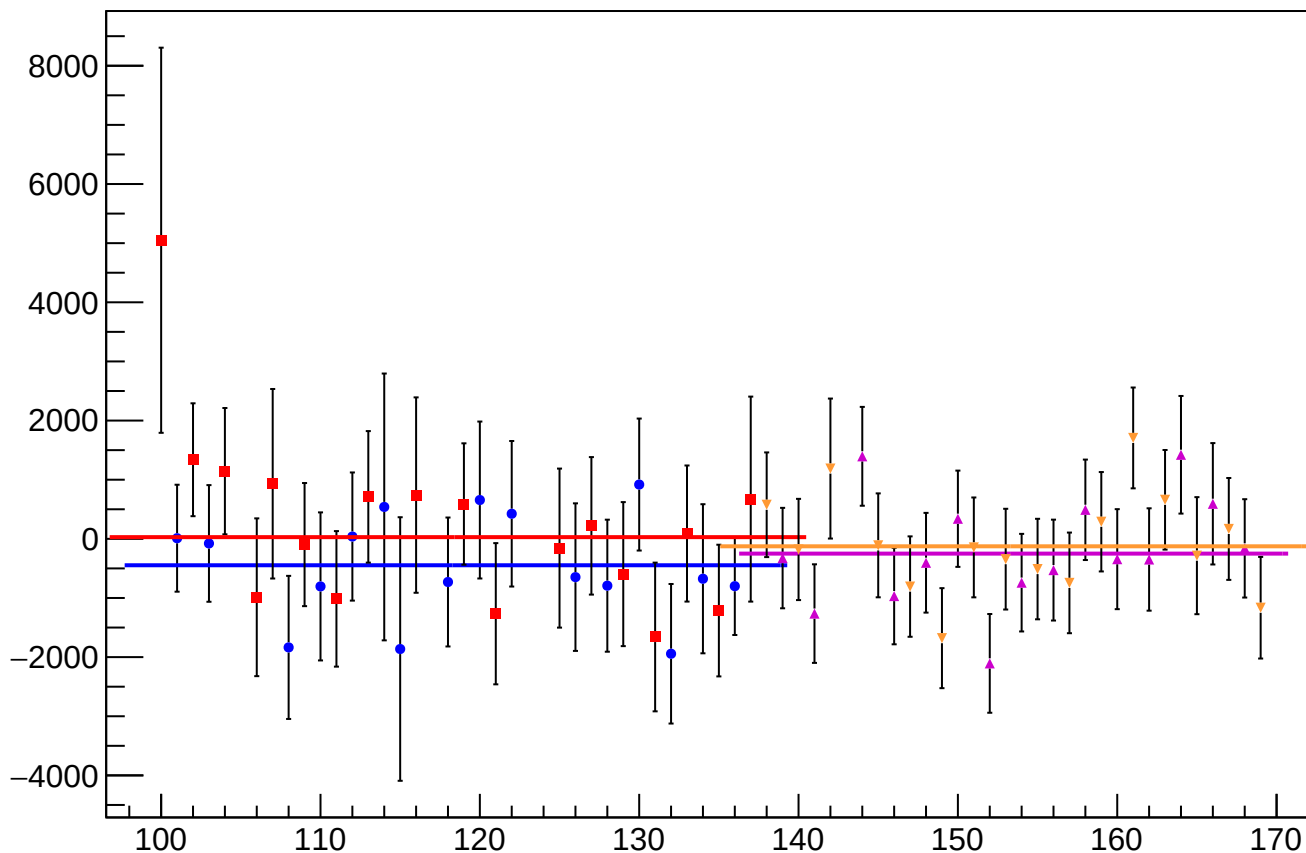
Right: 681.475 $\pm$ 0.132 χ^2 /NDF: 2347071.2/33

In: 563.538 $\pm$ 0.092 χ^2 /NDF:1923994.5/30

Out: 559.214 $\pm$ 0.091 χ^2 /NDF:2195101.3/33

All: 561.351 $\pm$ 0.065 χ^2 /NDF: 4120201.7/64

dit_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -446.659 $\pm$ 289.238 χ^2/NDF : 7.3/15

Left Out: -126.157 $\pm$ 218.693 χ^2/NDF :14.0/15

Right Out: 28.787 $\pm$ 288.372 χ^2/NDF : 12.6/17

Left In: -249.773 $\pm$ 220.969 χ^2/NDF :16.4/14

Left: -187.325 $\pm$ 155.438 χ^2/NDF : 30.6/30

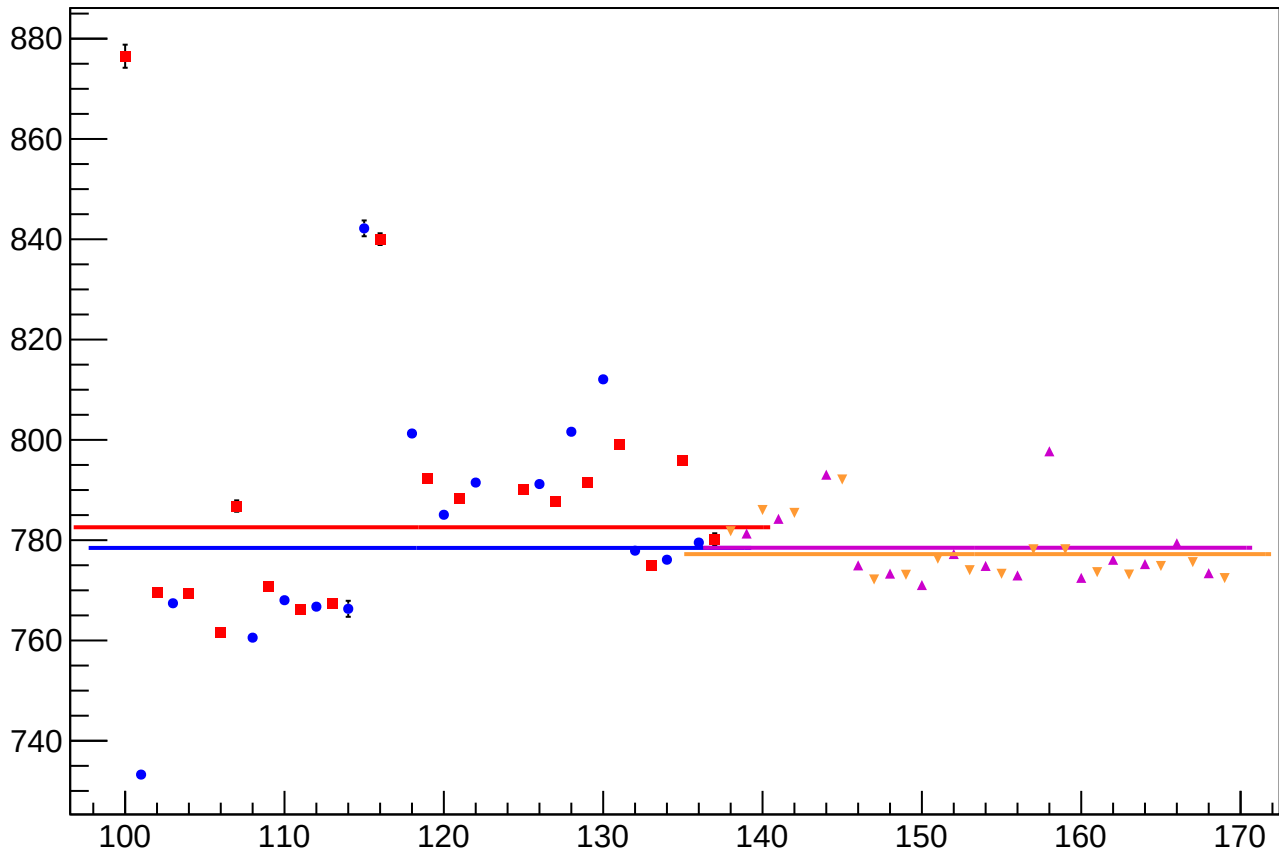
Right: -208.223 $\pm$ 204.216 χ^2/NDF : 21.3/33

In: -322.335 $\pm$ 175.591 χ^2/NDF :24.0/30

Out: -69.582 $\pm$ 174.252 χ^2/NDF :26.8/33

All: -194.991 $\pm$ 123.685 χ^2/NDF : 51.9/64

dit_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 778.456 ± 0.205 χ^2/NDF : 11795.2/15

Left Out: 777.219 ± 0.155 χ^2/NDF : 1293.9/15

Right Out: 782.575 ± 0.204 χ^2/NDF : 7481.4/17

Left In: 778.489 ± 0.156 χ^2/NDF : 2370.5/14

Left: 777.847 ± 0.110 χ^2/NDF : 3697.7/30

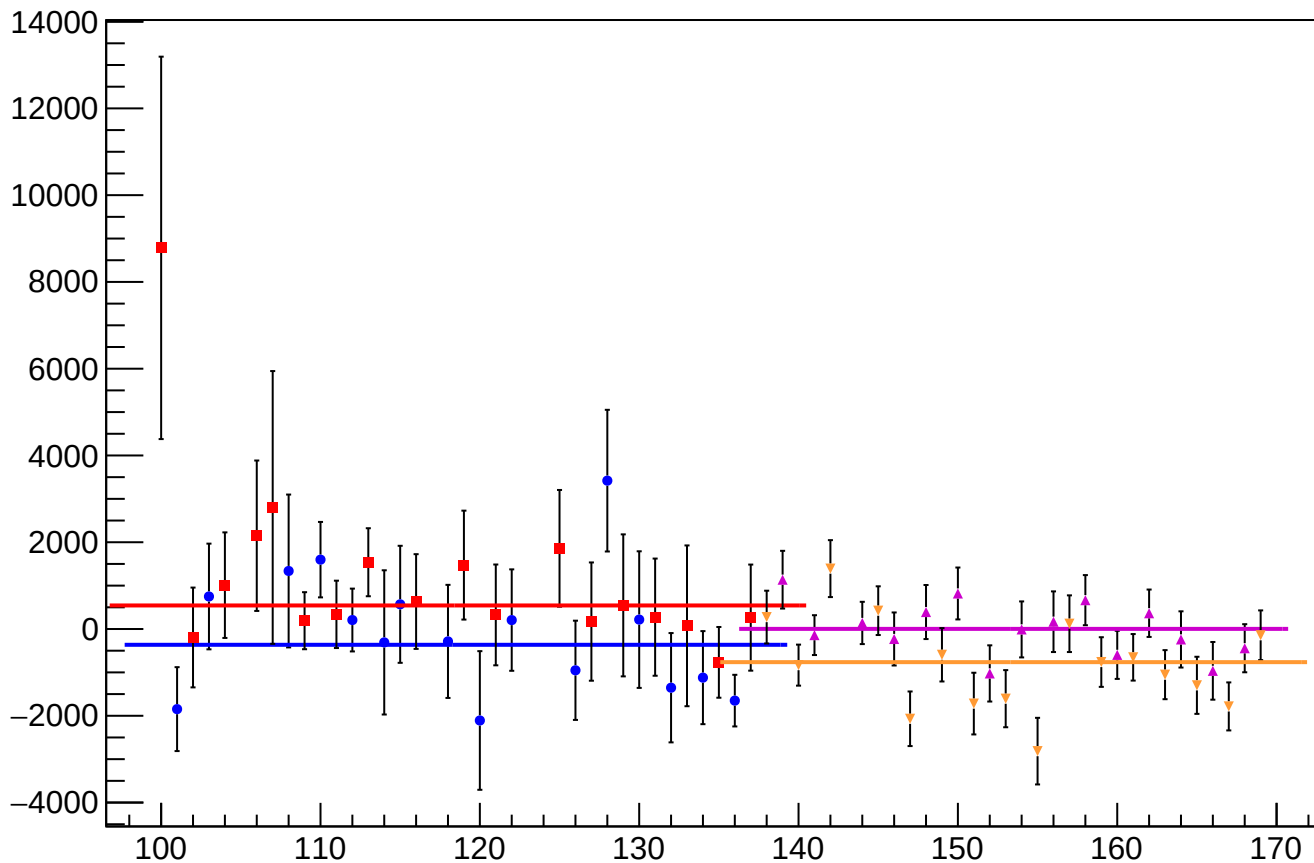
Right: 780.522 ± 0.144 χ^2/NDF : 19480.1/33

In: 778.477 ± 0.124 χ^2/NDF : 14165.7/30

Out: 779.175 ± 0.123 χ^2/NDF : 9213.4/33

All: 778.828 ± 0.087 χ^2/NDF : 23395.0/64

asym_us_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -363.977 ± 269.316 $\chi^2/\text{NDF}: 23.3/15$

Left Out: -763.777 ± 149.995 $\chi^2/\text{NDF}: 40.5/15$

Right Out: 542.879 ± 265.273 $\chi^2/\text{NDF}: 11.8/17$

Left In: 2.923 ± 151.451 $\chi^2/\text{NDF}: 13.9/14$

Left: -384.130 ± 106.574 $\chi^2/\text{NDF}: 67.3/30$

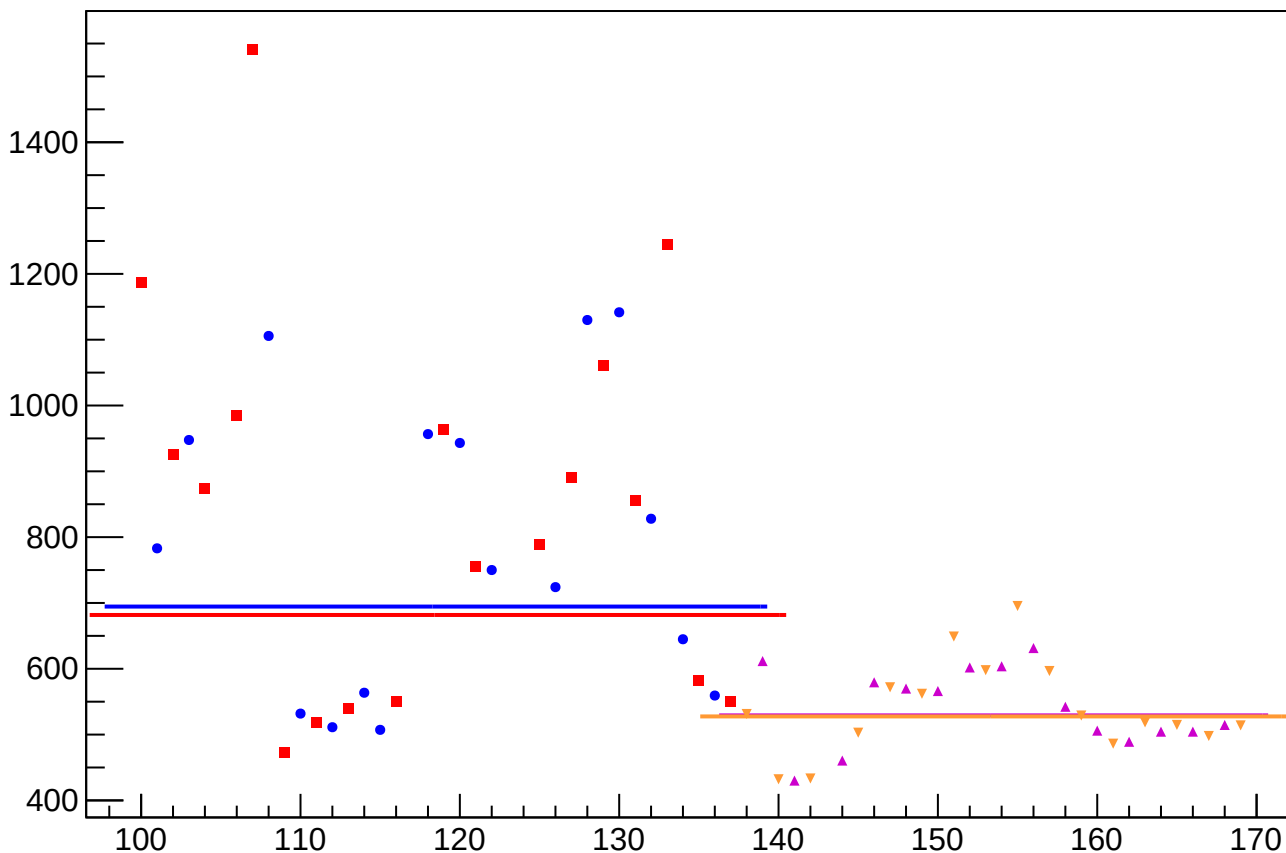
Right: 96.308 ± 188.989 $\chi^2/\text{NDF}: 40.8/33$

In: -85.229 ± 132.009 $\chi^2/\text{NDF}: 38.6/30$

Out: -447.223 ± 130.568 $\chi^2/\text{NDF}: 70.7/33$

All: -268.213 ± 92.831 $\chi^2/\text{NDF}: 113.1/64$

asym_us_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 694.522 ± 0.190 χ^2/NDF : 1029884.9/15

Left Out: 527.593 ± 0.106 χ^2/NDF : 361962.4/15

Right Out: 681.744 ± 0.188 χ^2/NDF : 1311322.6/17

Left In: 529.193 ± 0.107 χ^2/NDF : 310485.8/14

Left: 528.385 ± 0.075 χ^2/NDF : 672560.8/30

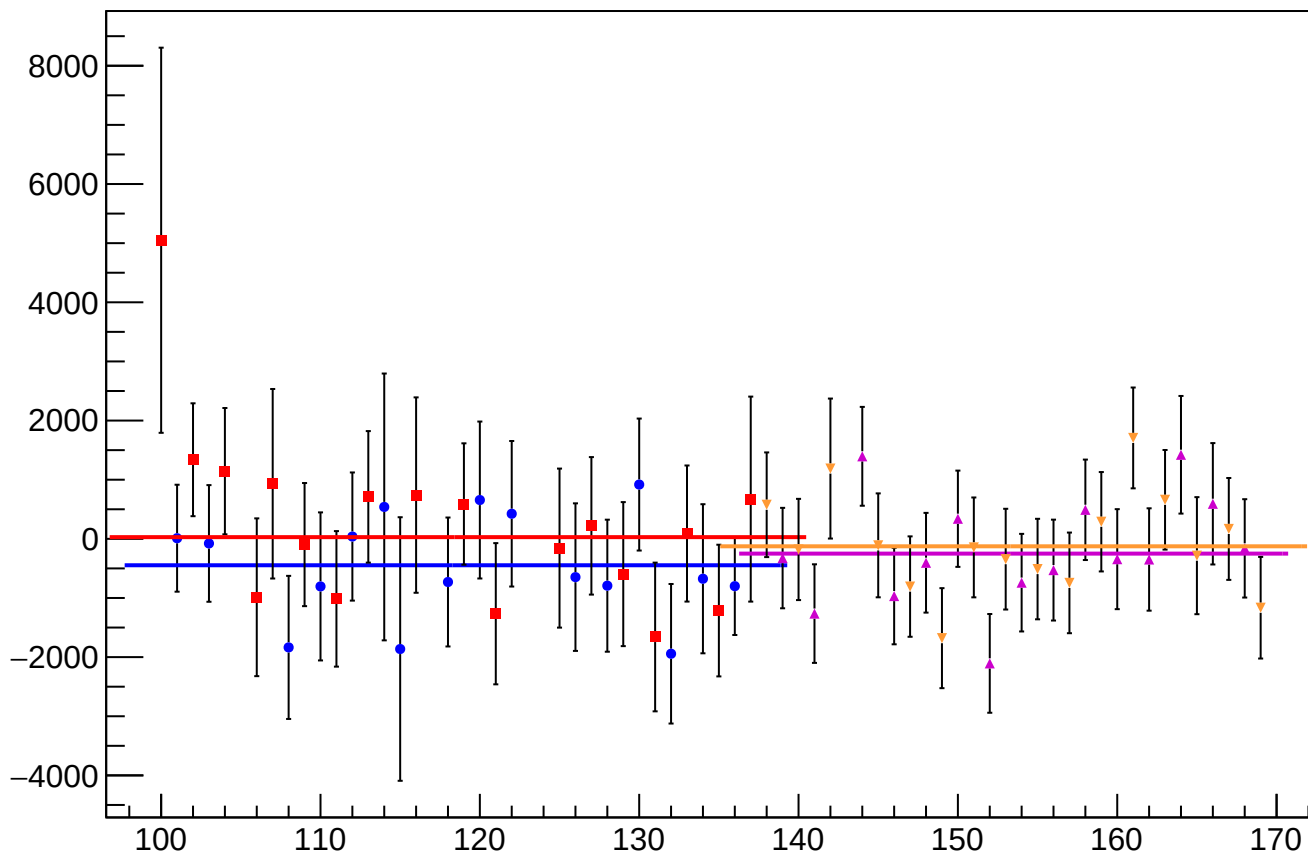
Right: 688.036 ± 0.134 χ^2/NDF : 2343492.9/33

In: 568.915 ± 0.093 χ^2/NDF : 1912998.9/30

Out: 564.938 ± 0.092 χ^2/NDF : 2185027.5/33

All: 566.905 ± 0.066 χ^2/NDF : 4098943.9/64

eigen_dit_asym_us_dd_mean vs Slug, Sign Corrected



Right In: -446.659+/-289.238 χ^2/NDF : 7.3/15

Left Out: -126.158+/-218.693 χ^2/NDF :14.0/15

Right Out: 28.786+/-288.372 χ^2/NDF : 12.6/17

Left In: -249.773+/-220.969 χ^2/NDF :16.4/14

Left: -187.326+/-155.438 χ^2/NDF : 30.6/30

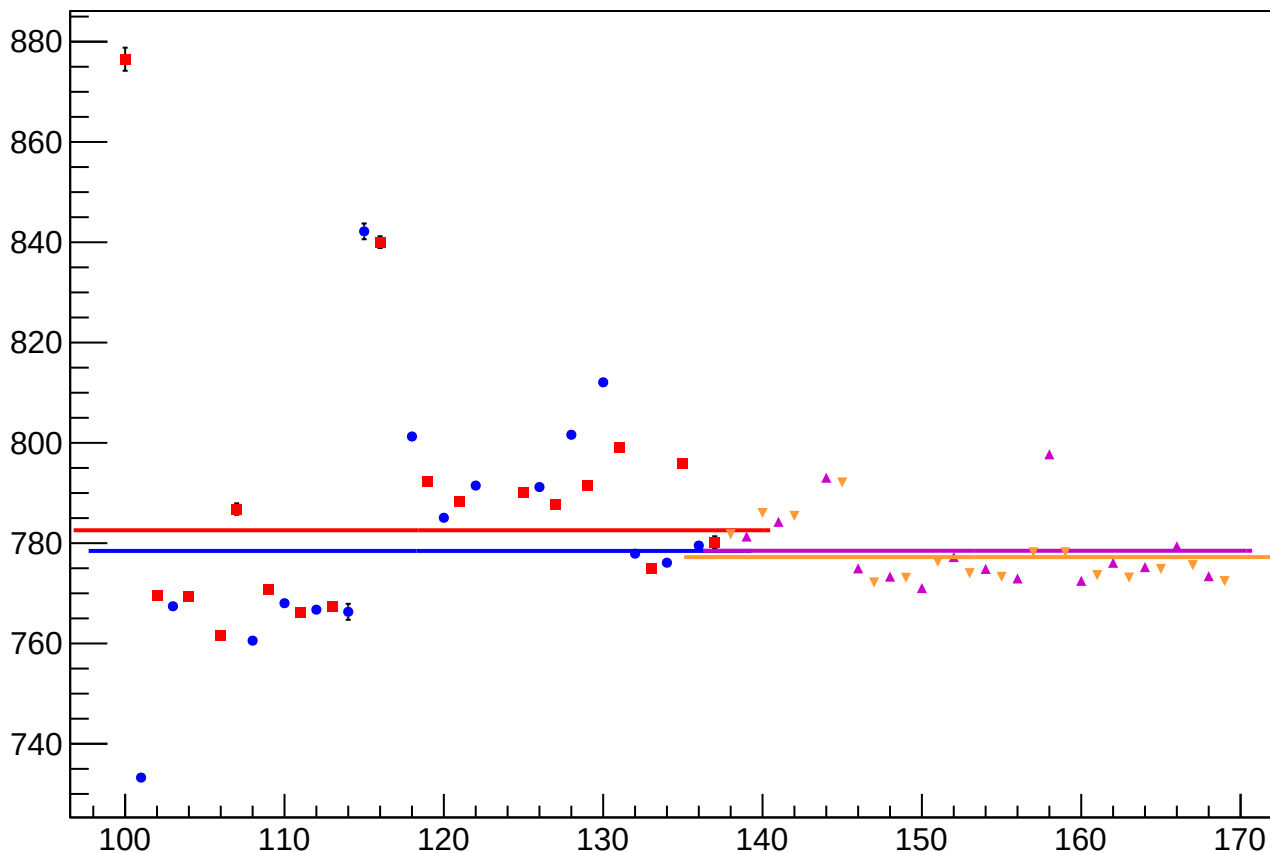
Right: -208.224+/-204.216 χ^2/NDF : 21.3/33

In: -322.334+/-175.591 χ^2/NDF :24.0/30

Out: -69.584+/-174.252 χ^2/NDF :26.8/33

All: -194.992+/-123.685 χ^2/NDF : 51.9/64

eigen_dit_asym_us_dd_rms vs Slug, Sign Corrected



Right In: 778.456 ± 0.205 χ^2/NDF : 11795.2/15

Left Out: 777.219 ± 0.155 χ^2/NDF : 1293.9/15

Right Out: 782.575 ± 0.204 χ^2/NDF : 7481.4/17

Left In: 778.489 ± 0.156 χ^2/NDF : 2370.5/14

Left: 777.847 ± 0.110 χ^2/NDF : 3697.7/30

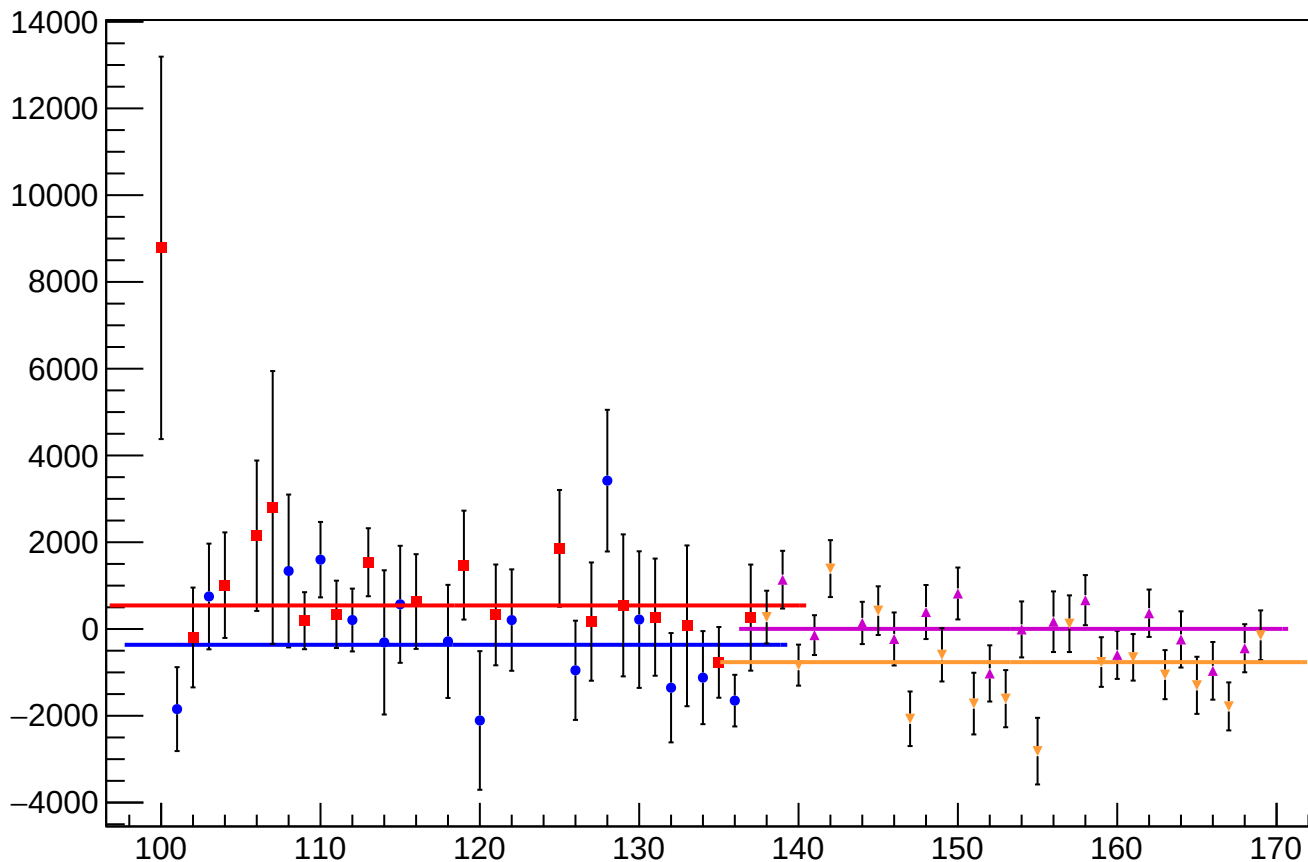
Right: 780.522 ± 0.144 χ^2/NDF : 19480.0/33

In: 778.477 ± 0.124 χ^2/NDF : 14165.7/30

Out: 779.175 ± 0.123 χ^2/NDF : 9213.3/33

All: 778.828 ± 0.087 χ^2/NDF : 23395.0/64

asym_us_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -363.973+/-269.314 χ^2/NDF : 23.3/15

Left Out: -763.777+/-149.995 χ^2/NDF : 40.5/15

Right Out: 542.878+/-265.272 χ^2/NDF : 11.8/17

Left In: 2.921+/-151.451 χ^2/NDF : 13.9/14

Left: -384.130+/-106.574 χ^2/NDF : 67.3/30

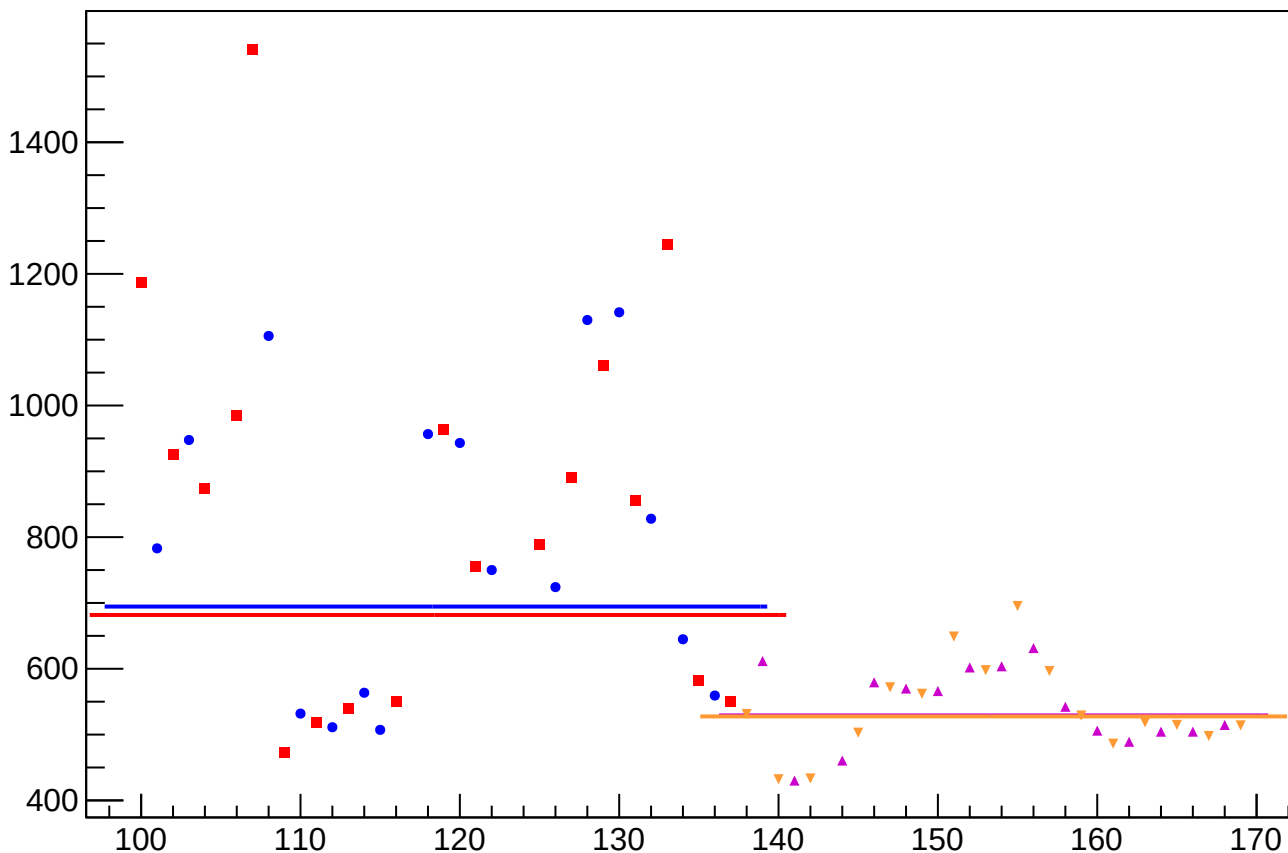
Right: 96.309+/-188.989 χ^2/NDF : 40.8/33

In: -85.230+/-132.009 χ^2/NDF : 38.6/30

Out: -447.221+/-130.568 χ^2/NDF : 70.7/33

All: -268.212+/-92.831 χ^2/NDF : 113.1/64

asym_us_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 694.519 ± 0.190 $\chi^2/\text{NDF}: 1029897.1/15$

Left Out: 527.593 ± 0.106 $\chi^2/\text{NDF}: 361974.9/15$

Right Out: 681.740 ± 0.188 $\chi^2/\text{NDF}: 1311342.6/17$

Left In: 529.193 ± 0.107 $\chi^2/\text{NDF}: 310498.3/14$

Left: 528.385 ± 0.075 $\chi^2/\text{NDF}: 672585.9/30$

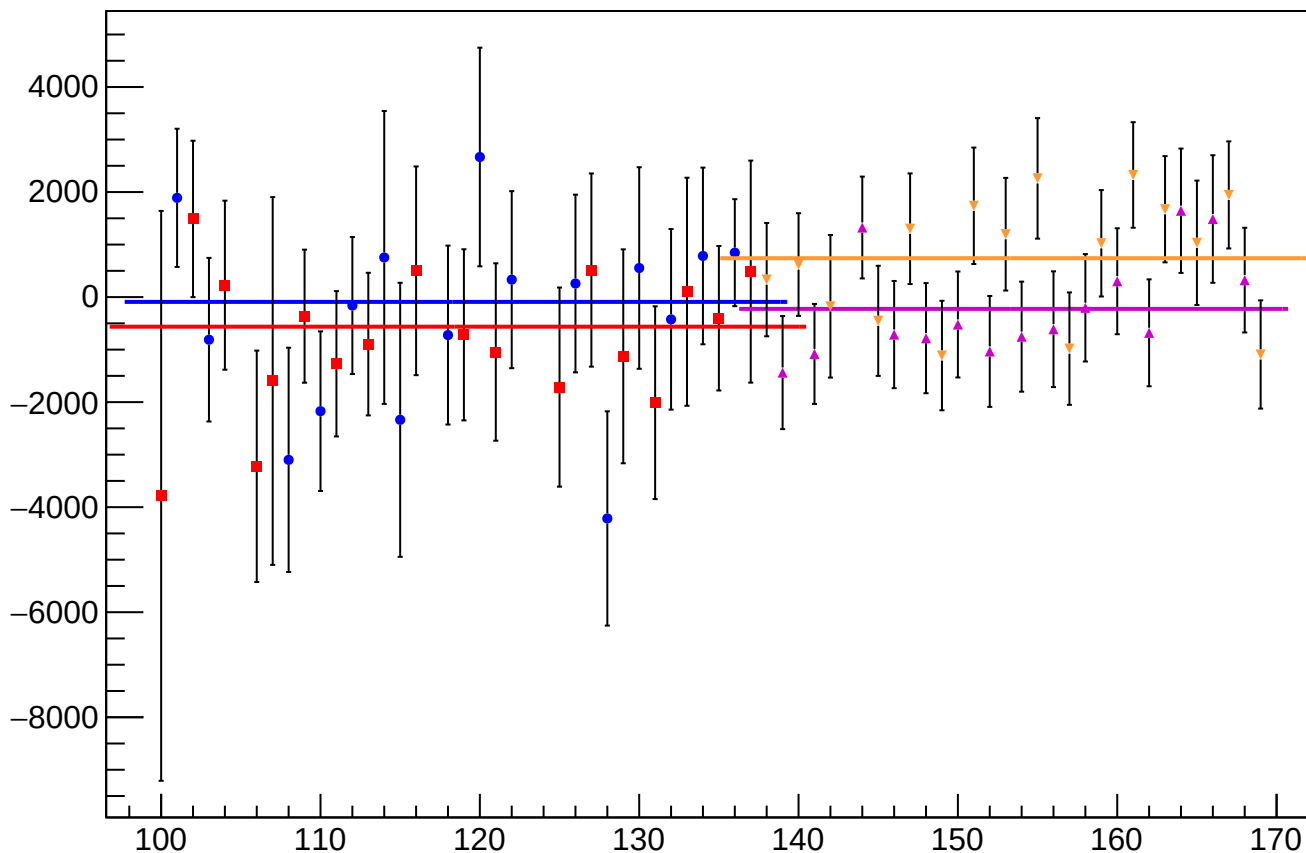
Right: 688.033 ± 0.134 $\chi^2/\text{NDF}: 2343525.0/33$

In: 568.915 ± 0.093 $\chi^2/\text{NDF}: 1913001.9/30$

Out: 564.938 ± 0.092 $\chi^2/\text{NDF}: 2185041.3/33$

All: 566.904 ± 0.066 $\chi^2/\text{NDF}: 4098960.8/64$

asym_us_dd_mean vs Slug, Sign Corrected



Right In: -91.305 ± 409.957 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 740.700 ± 266.756 $\chi^2/\text{NDF}: 18.7/15$

Right Out: -563.292 ± 411.565 $\chi^2/\text{NDF}: 6.5/17$

Left In: -224.310 ± 269.032 $\chi^2/\text{NDF}: 11.5/14$

Left: 262.294 ± 189.424 $\chi^2/\text{NDF}: 36.7/30$

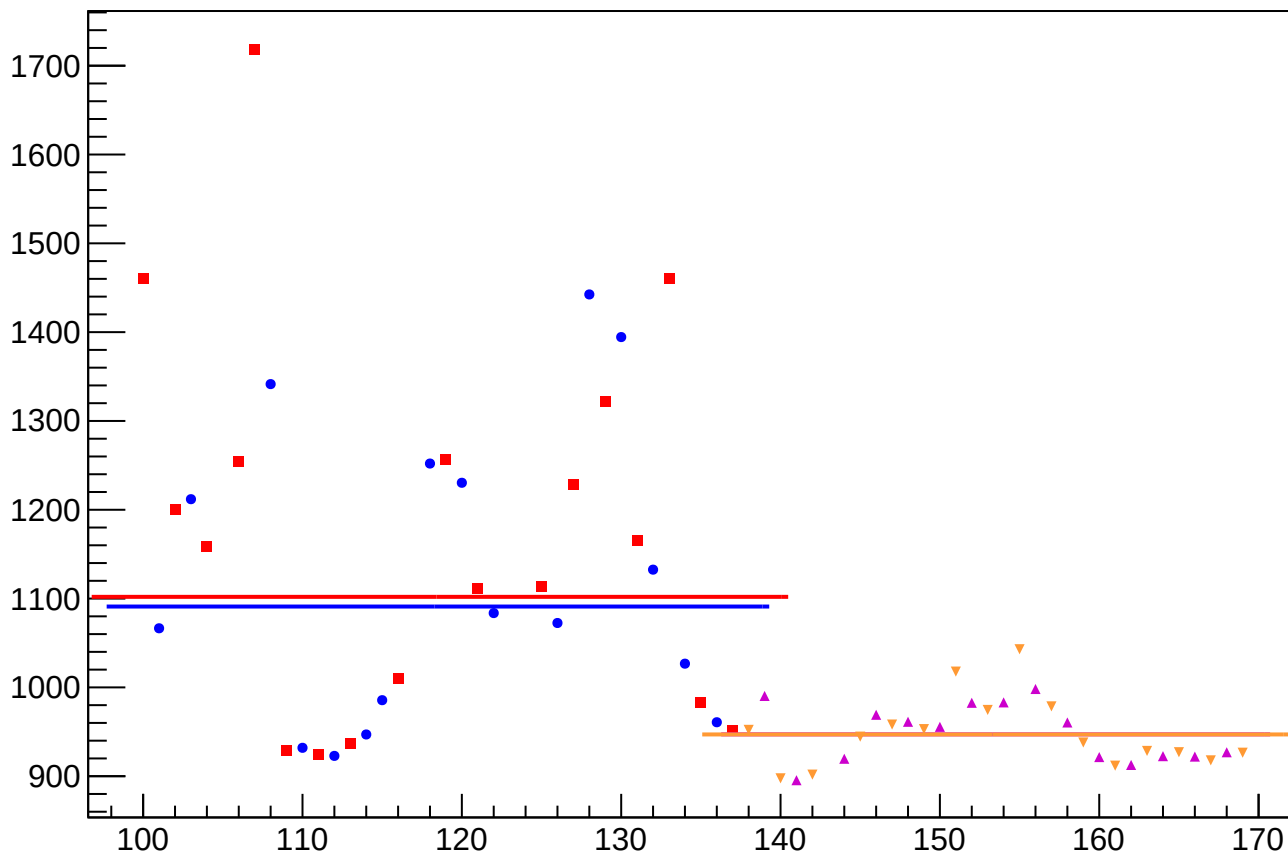
Right: -326.374 ± 290.450 $\chi^2/\text{NDF}: 21.7/33$

In: -184.273 ± 224.924 $\chi^2/\text{NDF}: 26.1/30$

Out: 354.948 ± 223.849 $\chi^2/\text{NDF}: 32.3/33$

All: 86.629 ± 158.664 $\chi^2/\text{NDF}: 61.3/64$

asym_us_dd_rms vs Slug, Sign Corrected



Right In: 1091.041+/-0.290 χ^2/NDF : 277304.9/15

Left Out: 947.026+/-0.189 χ^2/NDF : 39156.2/15

Right Out: 1101.953+/-0.291 χ^2/NDF : 328107.6/17

Left In: 947.119+/-0.190 χ^2/NDF : 27527.5/14

Left: 947.072+/-0.134 χ^2/NDF : 66683.9/30

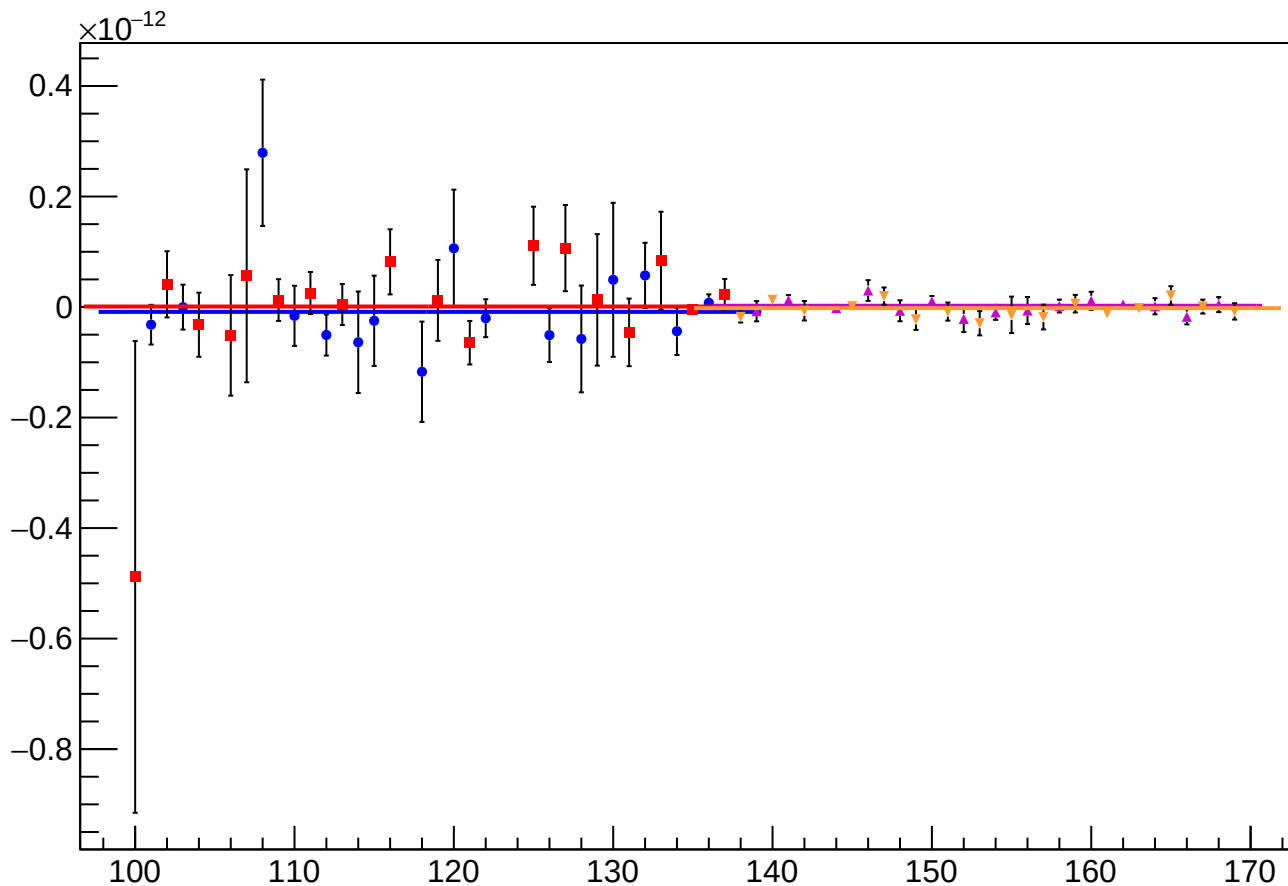
Right: 1096.476+/-0.205 χ^2/NDF : 606118.2/33

In: 990.443+/-0.159 χ^2/NDF : 477126.8/30

Out: 992.857+/-0.158 χ^2/NDF : 566830.3/33

All: 991.656+/-0.112 χ^2/NDF : 1044073.0/64

asym_us_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 13.8/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 15.6/15

Right Out: 0.000 ± 0.000 χ^2/NDF : 14.3/17

Left In: 0.000 ± 0.000 χ^2/NDF : 9.1/14

Left: -0.000 ± 0.000 χ^2/NDF : 25.6/30

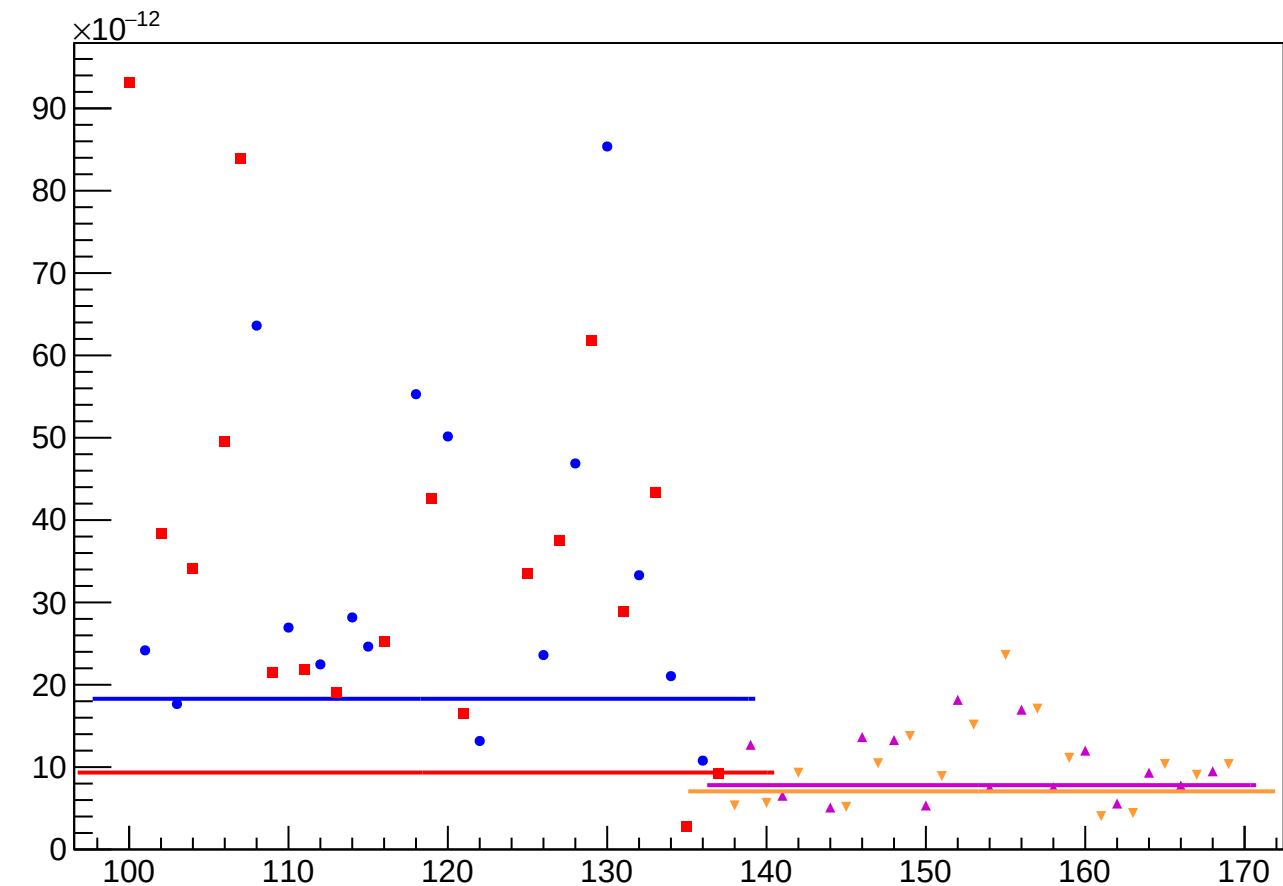
Right: -0.000 ± 0.000 χ^2/NDF : 28.8/33

In: 0.000 ± 0.000 χ^2/NDF : 24.0/30

Out: -0.000 ± 0.000 χ^2/NDF : 30.0/33

All: -0.000 ± 0.000 χ^2/NDF : 54.5/64

asym_us_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2242543.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2658790.4/15

Right Out: 0.000+/-0.000 χ^2/NDF : 5140446.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 1852011.1/14

Left: 0.000+/-0.000 χ^2/NDF : 4567429.3/30

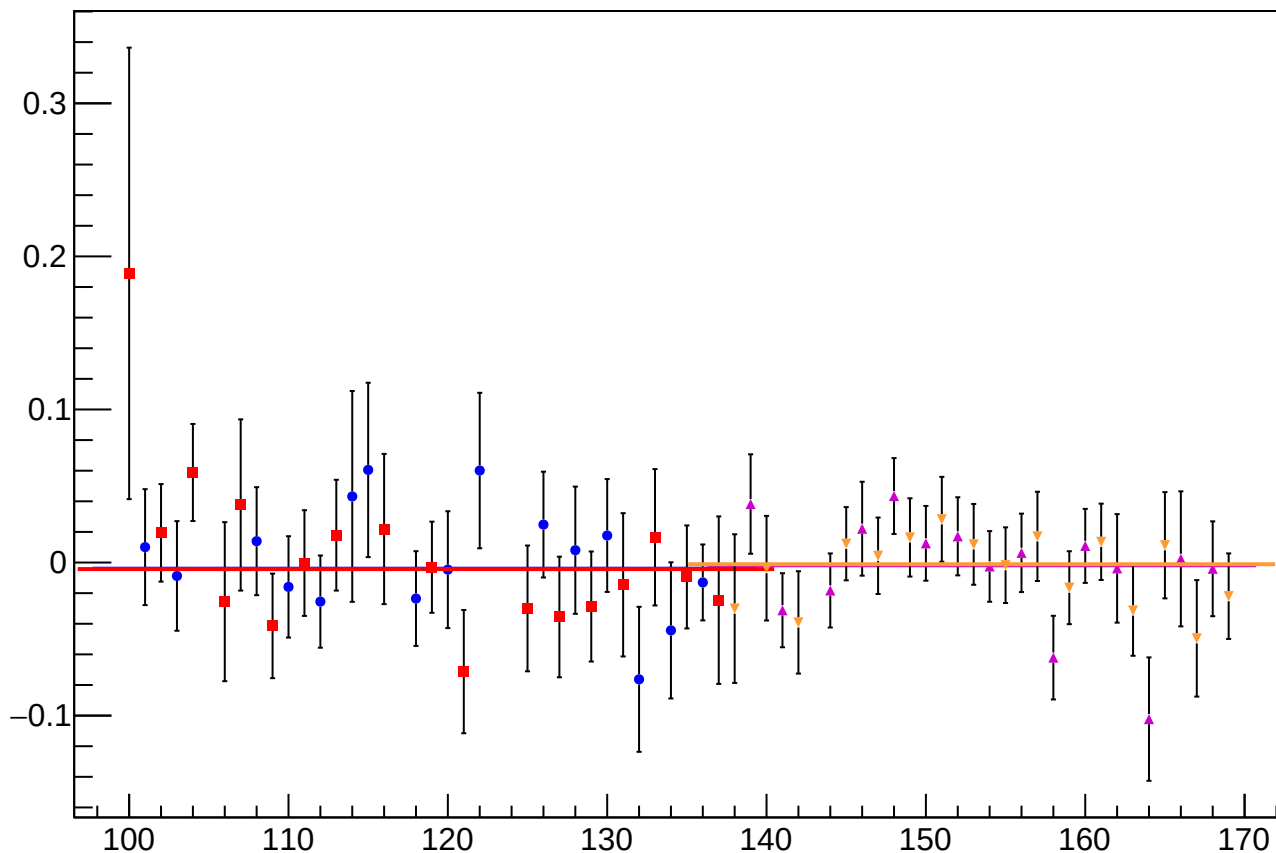
Right: 0.000+/-0.000 χ^2/NDF : 8399783.6/33

In: 0.000+/-0.000 χ^2/NDF : 5997676.7/30

Out: 0.000+/-0.000 χ^2/NDF : 7966330.0/33

All: 0.000+/-0.000 χ^2/NDF : 14184208.7/64

asym_us_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.009 χ^2/NDF : 9.2/15

Left Out: -0.001 ± 0.007 χ^2/NDF : 8.4/15

Right Out: -0.004 ± 0.009 χ^2/NDF : 13.5/17

Left In: -0.002 ± 0.007 χ^2/NDF : 19.8/14

Left: -0.001 ± 0.005 χ^2/NDF : 28.1/30

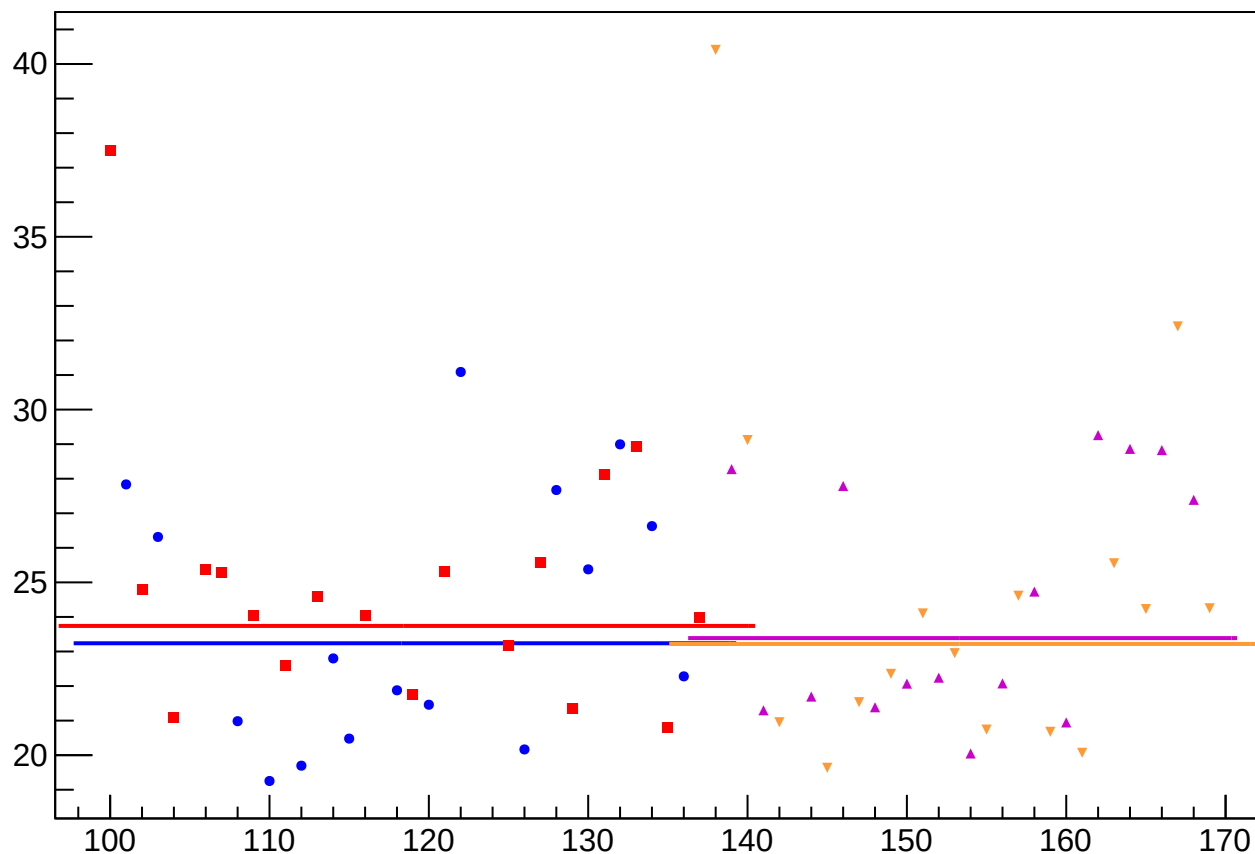
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: -0.003 ± 0.006 χ^2/NDF : 29.0/30

Out: -0.002 ± 0.006 χ^2/NDF : 21.9/33

All: -0.002 ± 0.004 χ^2/NDF : 50.9/64

asym_us_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.238 $\pm$ 0.007 χ^2/NDF : 259235.5/15

Left Out: 23.219 $\pm$ 0.005 χ^2/NDF : 590876.9/15

Right Out: 23.740 $\pm$ 0.007 χ^2/NDF : 126183.6/17

Left In: 23.388 $\pm$ 0.005 χ^2/NDF : 361975.0/14

Left: 23.303 $\pm$ 0.004 χ^2/NDF : 953419.2/30

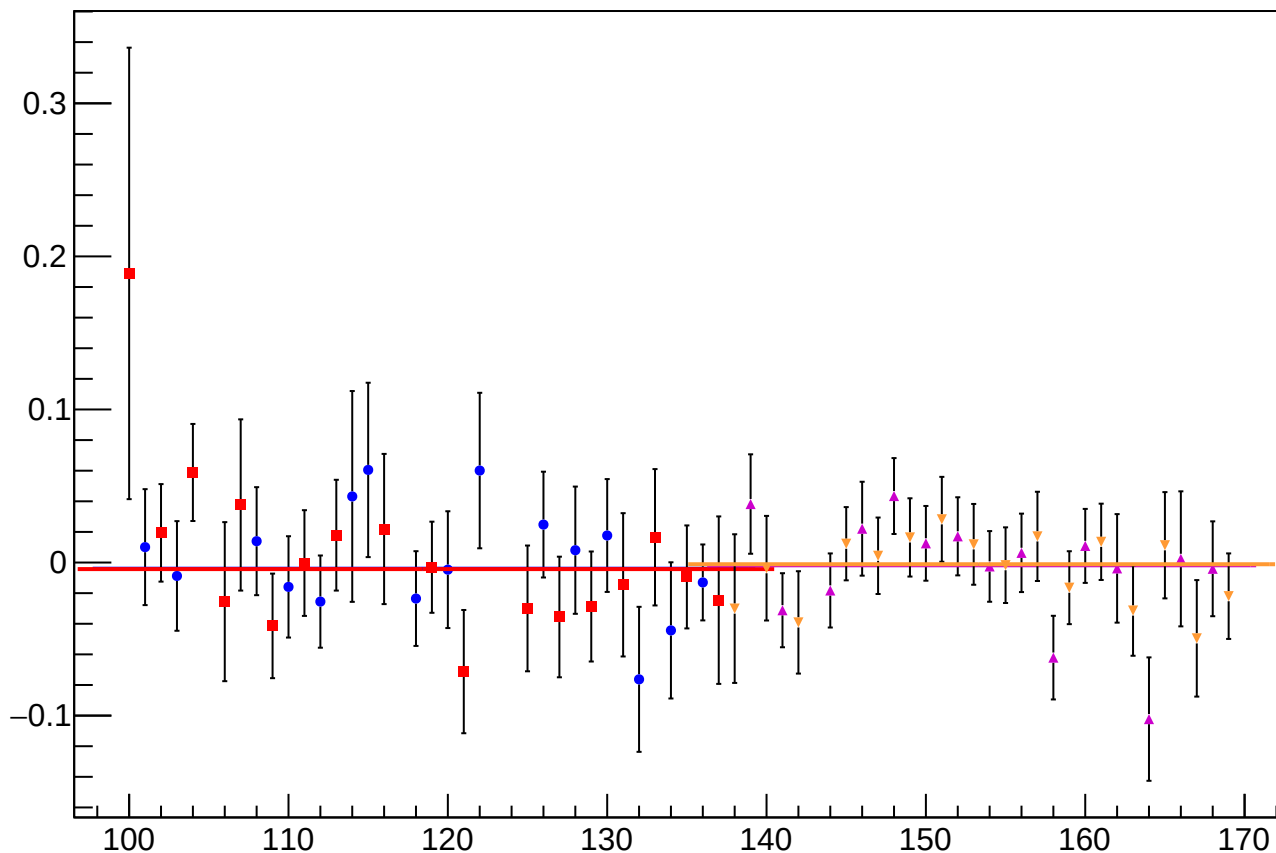
Right: 23.488 $\pm$ 0.005 χ^2/NDF : 388343.8/33

In: 23.332 $\pm$ 0.004 χ^2/NDF : 621539.3/30

Out: 23.410 $\pm$ 0.004 χ^2/NDF : 721035.2/33

All: 23.371 $\pm$ 0.003 χ^2/NDF : 1342764.0/64

asym_us_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.009 χ^2/NDF : 9.2/15

Left Out: -0.001 ± 0.007 χ^2/NDF : 8.4/15

Right Out: -0.004 ± 0.009 χ^2/NDF : 13.5/17

Left In: -0.002 ± 0.007 χ^2/NDF : 19.8/14

Left: -0.001 ± 0.005 χ^2/NDF : 28.1/30

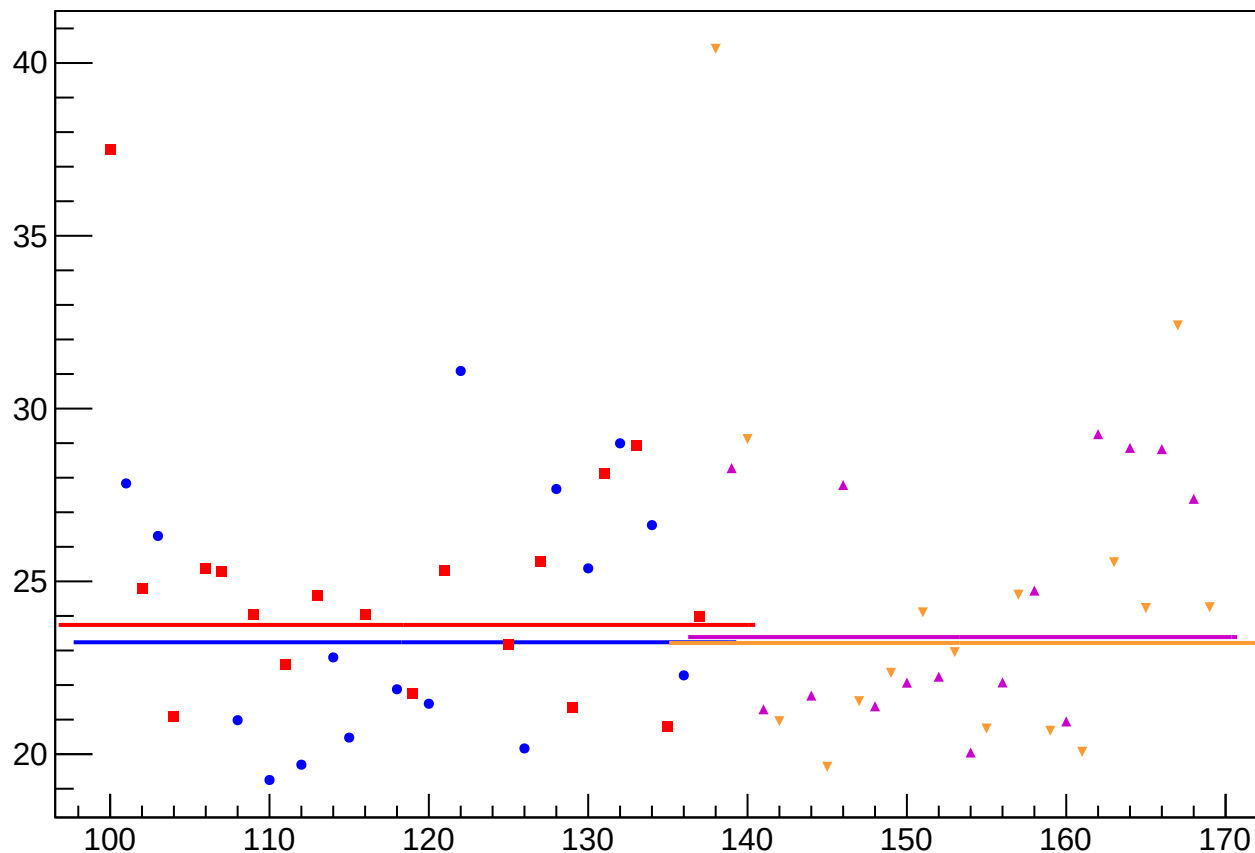
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: -0.003 ± 0.006 χ^2/NDF : 29.0/30

Out: -0.002 ± 0.006 χ^2/NDF : 21.9/33

All: -0.002 ± 0.004 χ^2/NDF : 50.9/64

asym_us_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.238 $\pm$ 0.007 χ^2 /NDF: 259235.5/15

Left Out: 23.219 $\pm$ 0.005 χ^2 /NDF: 590876.9/15

Right Out: 23.740 $\pm$ 0.007 χ^2 /NDF: 126183.6/17

Left In: 23.388 $\pm$ 0.005 χ^2 /NDF: 361975.0/14

Left: 23.303 $\pm$ 0.004 χ^2 /NDF: 953419.2/30

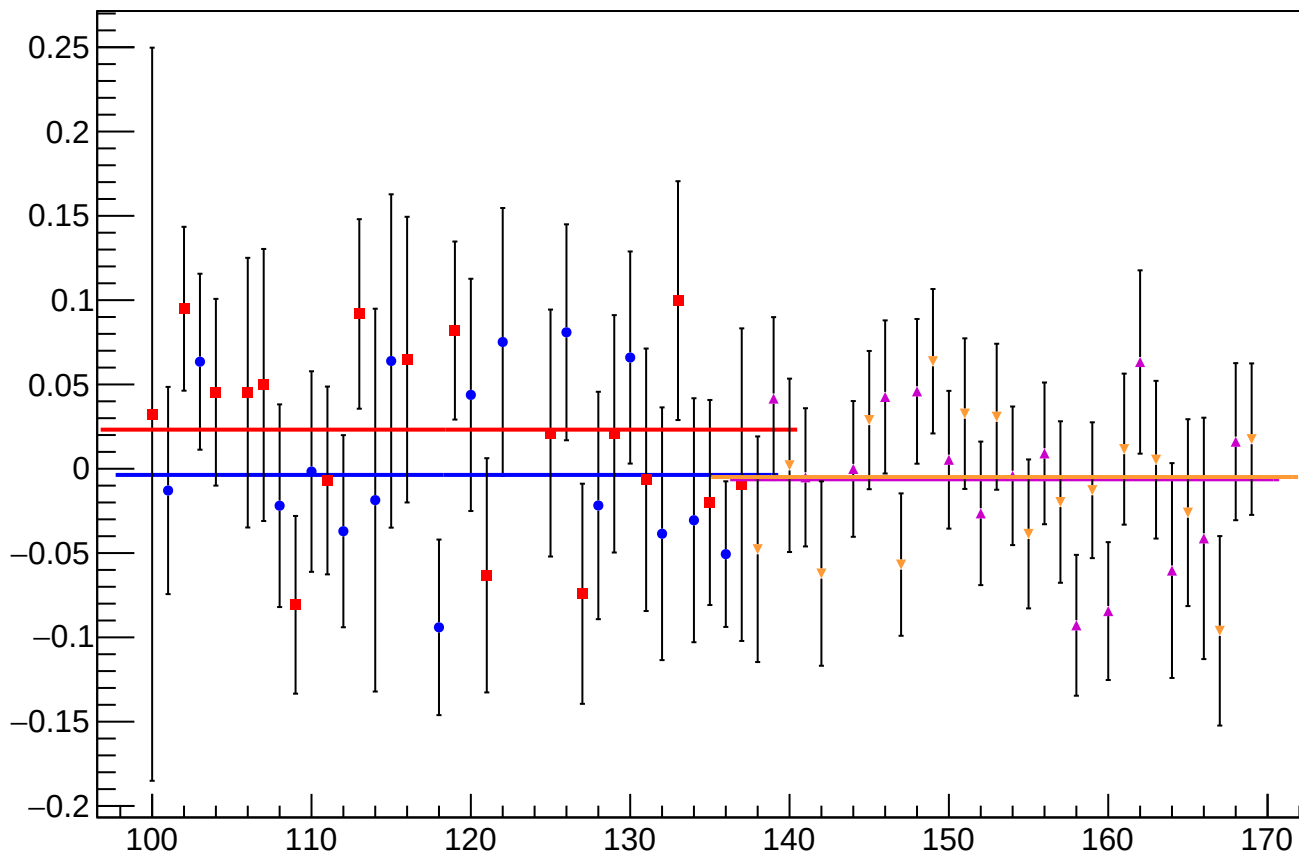
Right: 23.488 $\pm$ 0.005 χ^2 /NDF: 388343.8/33

In: 23.332 $\pm$ 0.004 χ^2 /NDF: 621539.3/30

Out: 23.410 $\pm$ 0.004 χ^2 /NDF: 721035.2/33

All: 23.371 $\pm$ 0.003 χ^2 /NDF: 1342764.0/64

asym_us_dd_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.016 $\chi^2/\text{NDF}: 11.7/15$

Left Out: -0.005 ± 0.012 $\chi^2/\text{NDF}: 11.6/15$

Right Out: 0.023 ± 0.016 $\chi^2/\text{NDF}: 15.4/17$

Left In: -0.006 ± 0.012 $\chi^2/\text{NDF}: 14.9/14$

Left: -0.006 ± 0.008 $\chi^2/\text{NDF}: 26.5/30$

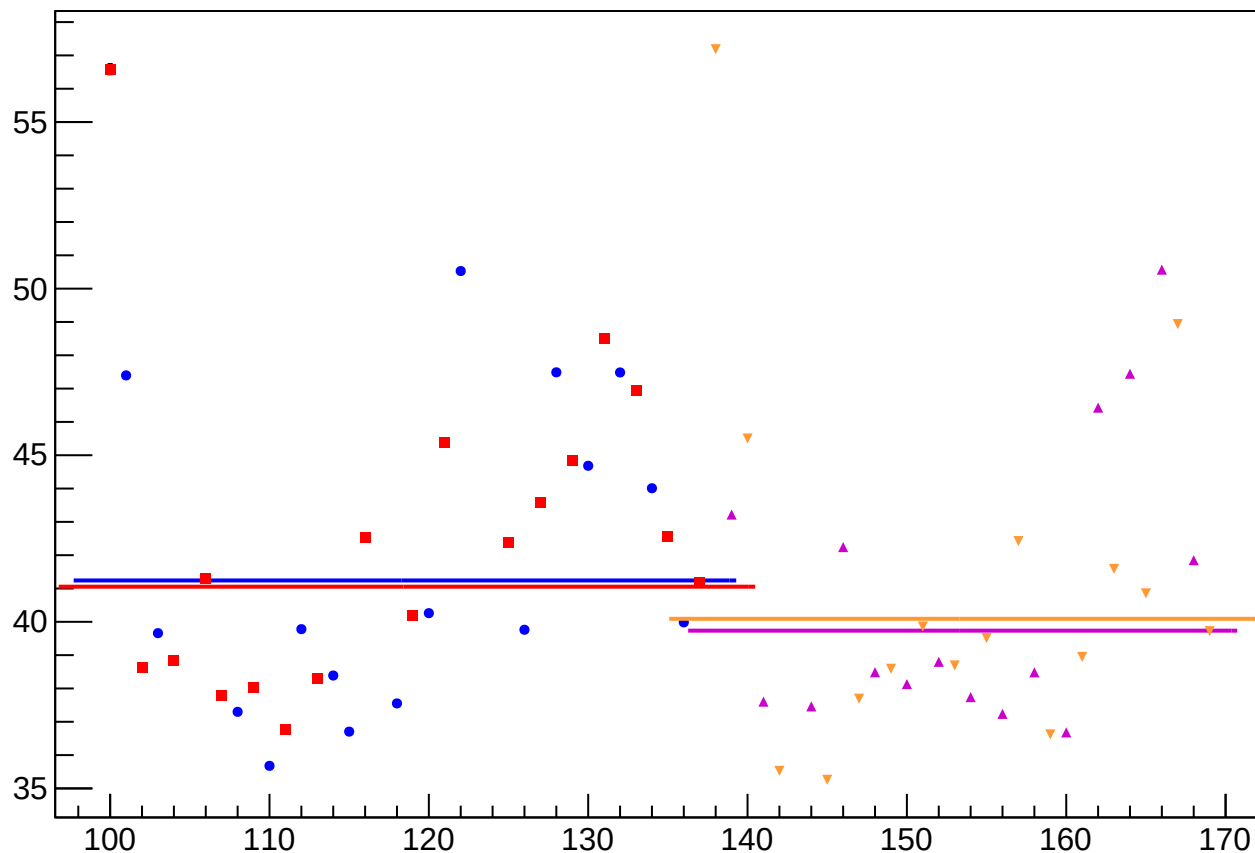
Right: 0.010 ± 0.011 $\chi^2/\text{NDF}: 28.5/33$

In: -0.005 ± 0.009 $\chi^2/\text{NDF}: 26.5/30$

Out: 0.005 ± 0.009 $\chi^2/\text{NDF}: 29.1/33$

All: -0.000 ± 0.007 $\chi^2/\text{NDF}: 56.3/64$

asym_us_dd_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.242 $\pm$ 0.011 χ^2 /NDF: 135279.1/15

Left Out: 40.091 $\pm$ 0.008 χ^2 /NDF: 278820.0/15

Right Out: 41.055 $\pm$ 0.011 χ^2 /NDF: 96560.6/17

Left In: 39.735 $\pm$ 0.008 χ^2 /NDF: 168302.9/14

Left: 39.912 $\pm$ 0.006 χ^2 /NDF: 448053.4/30

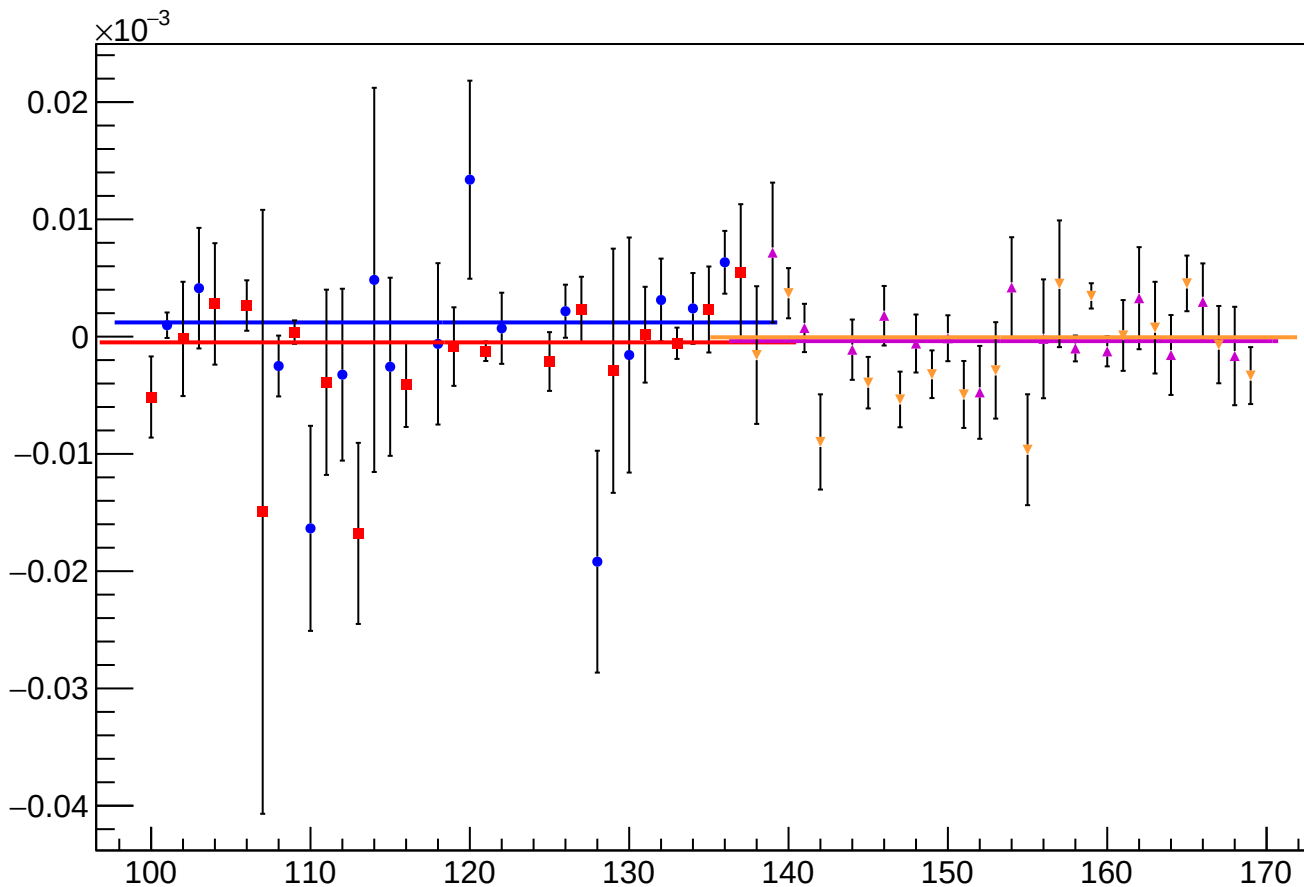
Right: 41.147 $\pm$ 0.008 χ^2 /NDF: 231982.7/33

In: 40.268 $\pm$ 0.007 χ^2 /NDF: 315435.0/30

Out: 40.440 $\pm$ 0.007 χ^2 /NDF: 380311.5/33

All: 40.354 $\pm$ 0.005 χ^2 /NDF: 696086.1/64

asym_us_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 43.0/15

Right Out: -0.000+/-0.000 χ^2/NDF : 15.0/17

Left In: -0.000+/-0.000 χ^2/NDF : 7.8/14

Left: -0.000+/-0.000 χ^2/NDF : 51.0/30

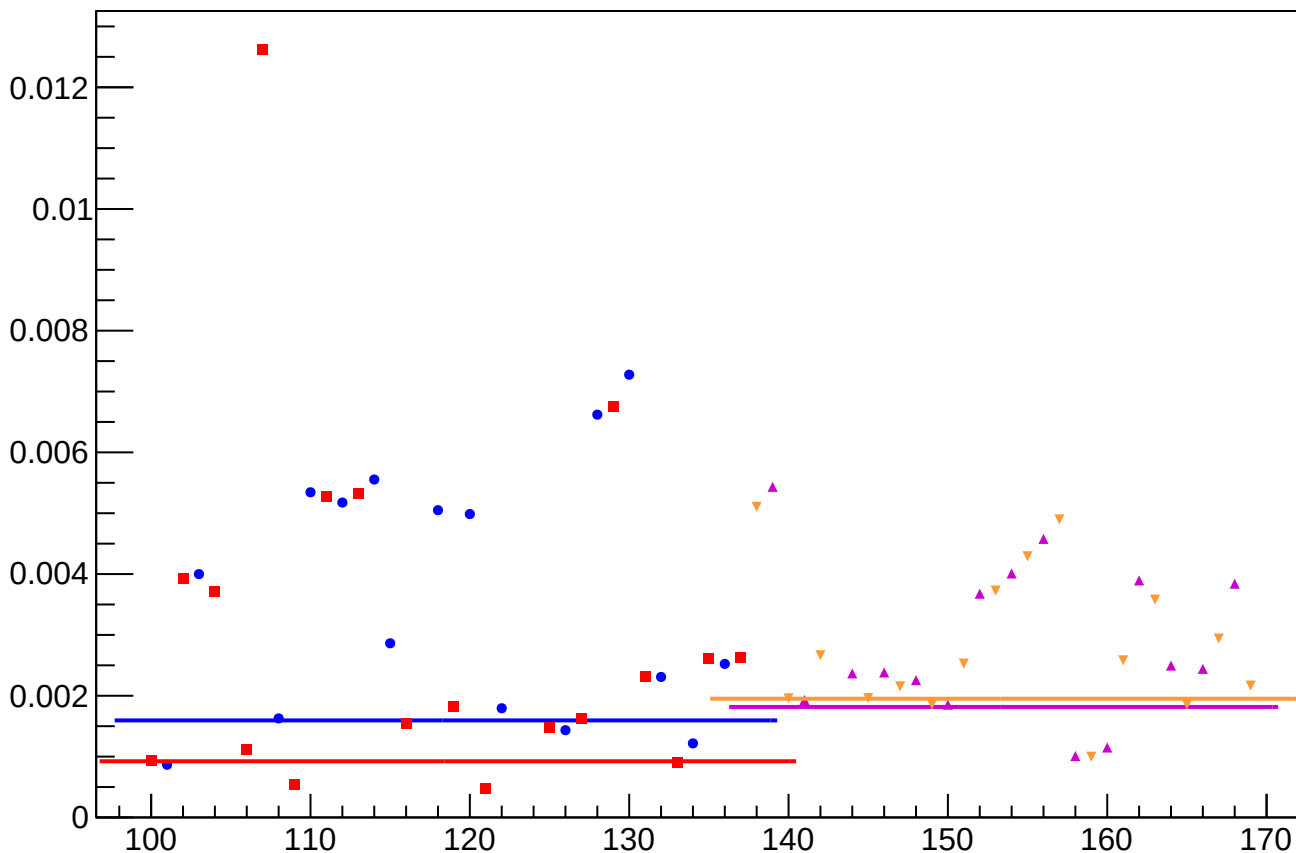
Right: 0.000+/-0.000 χ^2/NDF : 36.9/33

In: 0.000+/-0.000 χ^2/NDF : 28.9/30

Out: -0.000+/-0.000 χ^2/NDF : 58.3/33

All: -0.000+/-0.000 χ^2/NDF : 88.1/64

asym_us_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4762068.1/15

Left Out: 0.002+/-0.000 χ^2/NDF : 4394940.5/15

Right Out: 0.001+/-0.000 χ^2/NDF : 5780451.3/17

Left In: 0.002+/-0.000 χ^2/NDF : 5244890.9/14

Left: 0.002+/-0.000 χ^2/NDF : 9689884.4/30

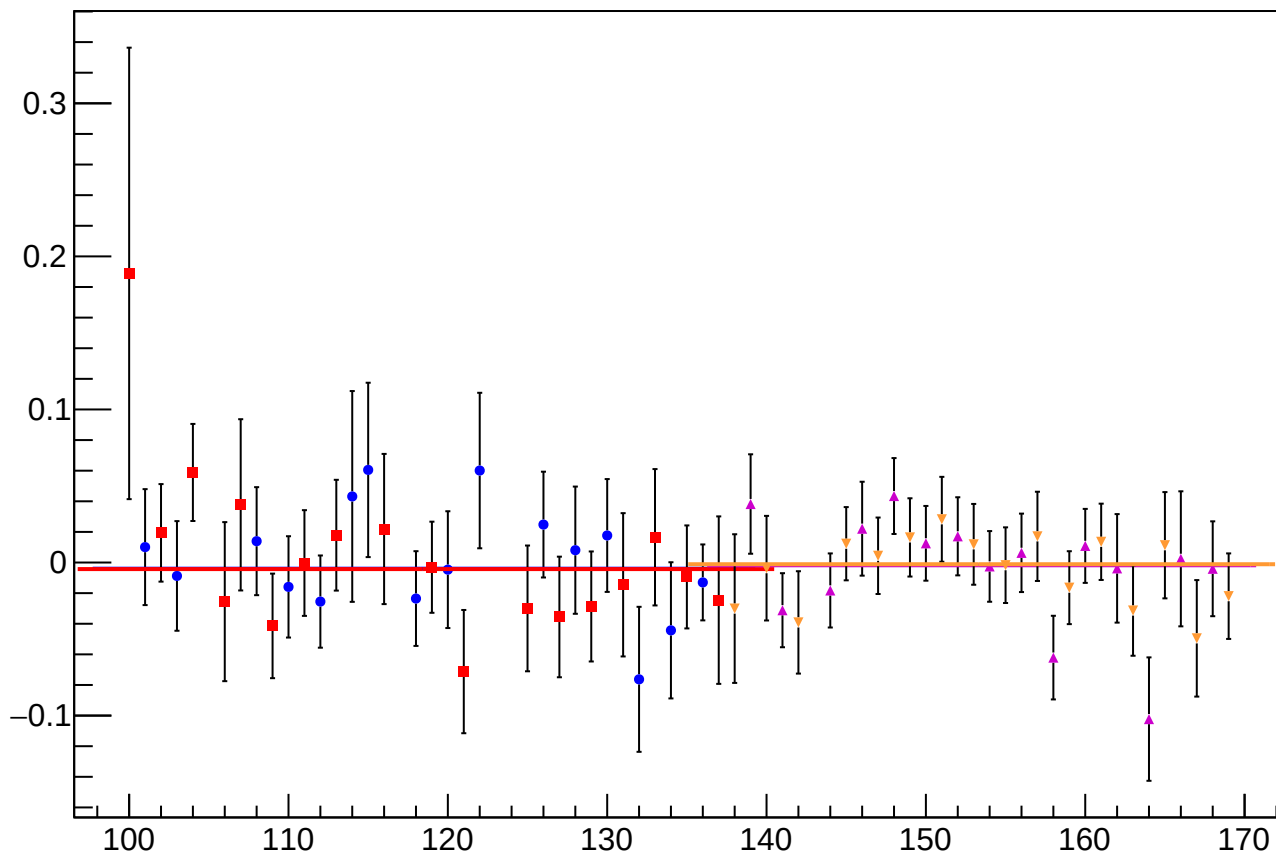
Right: 0.001+/-0.000 χ^2/NDF : 11655258.3/33

In: 0.002+/-0.000 χ^2/NDF : 10114684.4/30

Out: 0.001+/-0.000 χ^2/NDF : 13571128.0/33

All: 0.001+/-0.000 χ^2/NDF : 24563842.1/64

asym_us_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.009 χ^2/NDF : 9.2/15

Left Out: -0.001 ± 0.007 χ^2/NDF : 8.4/15

Right Out: -0.004 ± 0.009 χ^2/NDF : 13.5/17

Left In: -0.002 ± 0.007 χ^2/NDF : 19.8/14

Left: -0.001 ± 0.005 χ^2/NDF : 28.1/30

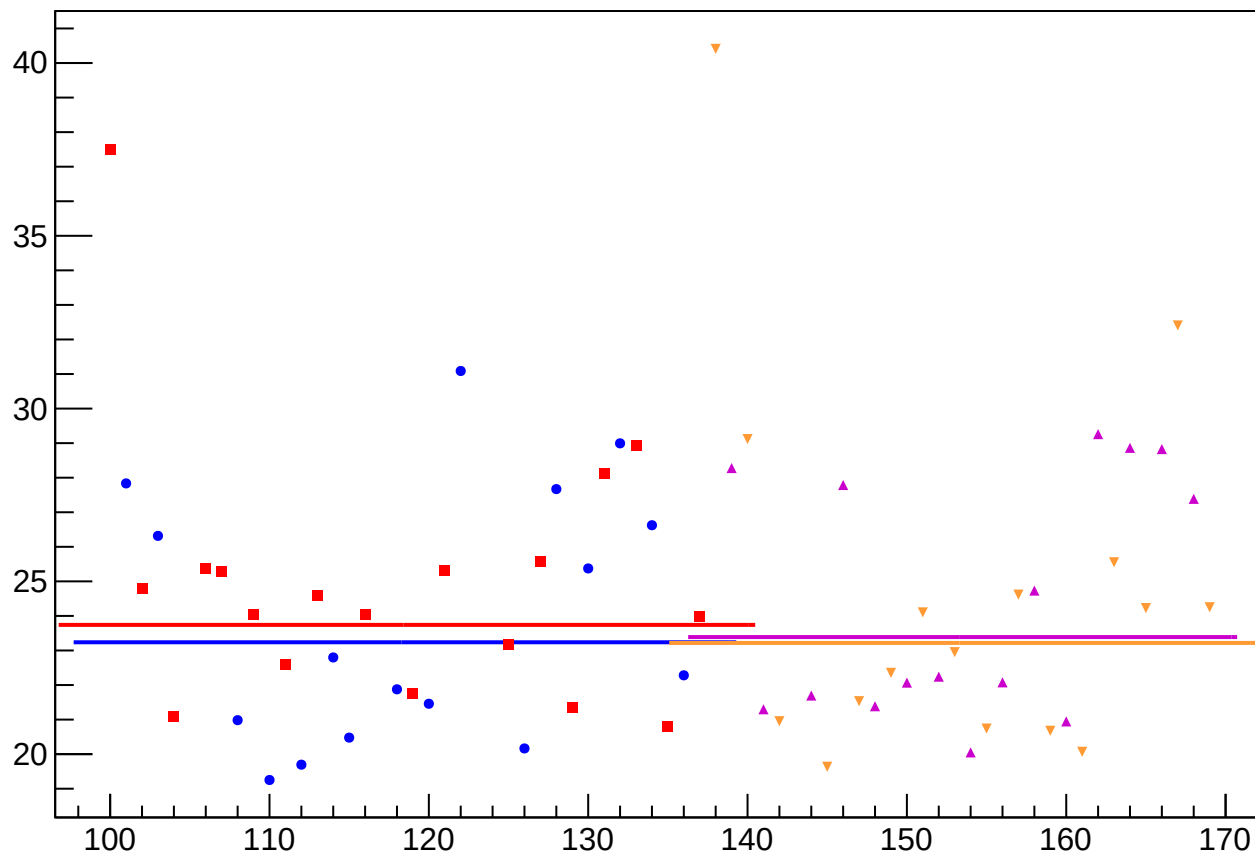
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: -0.003 ± 0.006 χ^2/NDF : 29.0/30

Out: -0.002 ± 0.006 χ^2/NDF : 21.9/33

All: -0.002 ± 0.004 χ^2/NDF : 50.9/64

asym_us_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.237 $\pm$ 0.007 χ^2 /NDF: 259224.2/15

Left Out: 23.219 $\pm$ 0.005 χ^2 /NDF: 590899.3/15

Right Out: 23.741 $\pm$ 0.007 χ^2 /NDF: 126132.7/17

Left In: 23.388 $\pm$ 0.005 χ^2 /NDF: 361926.5/14

Left: 23.303 $\pm$ 0.004 χ^2 /NDF: 953394.6/30

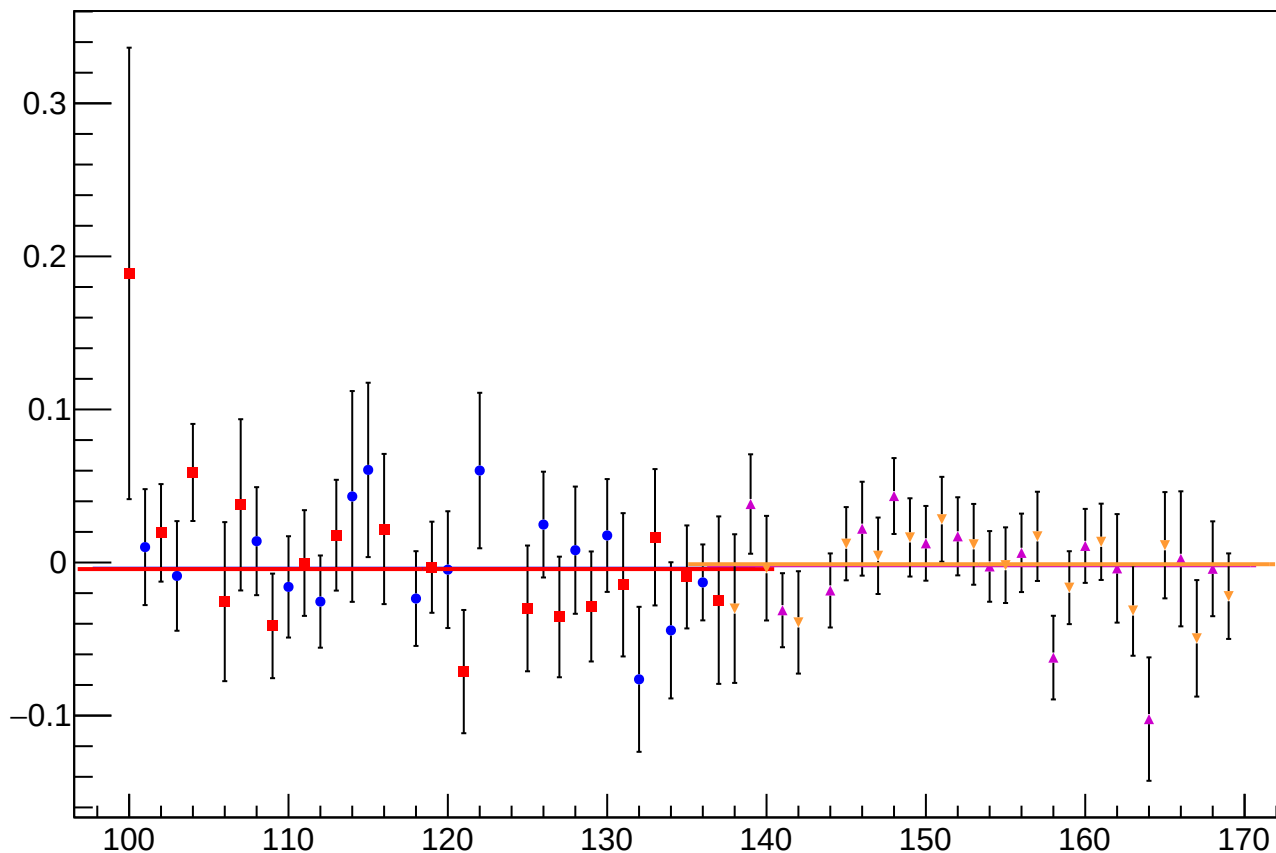
Right: 23.487 $\pm$ 0.005 χ^2 /NDF: 388292.2/33

In: 23.332 $\pm$ 0.004 χ^2 /NDF: 621483.6/30

Out: 23.410 $\pm$ 0.004 χ^2 /NDF: 721009.6/33

All: 23.371 $\pm$ 0.003 χ^2 /NDF: 1342683.6/64

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.009 χ^2/NDF : 9.2/15

Left Out: -0.001 ± 0.007 χ^2/NDF : 8.4/15

Right Out: -0.004 ± 0.009 χ^2/NDF : 13.5/17

Left In: -0.002 ± 0.007 χ^2/NDF : 19.8/14

Left: -0.001 ± 0.005 χ^2/NDF : 28.1/30

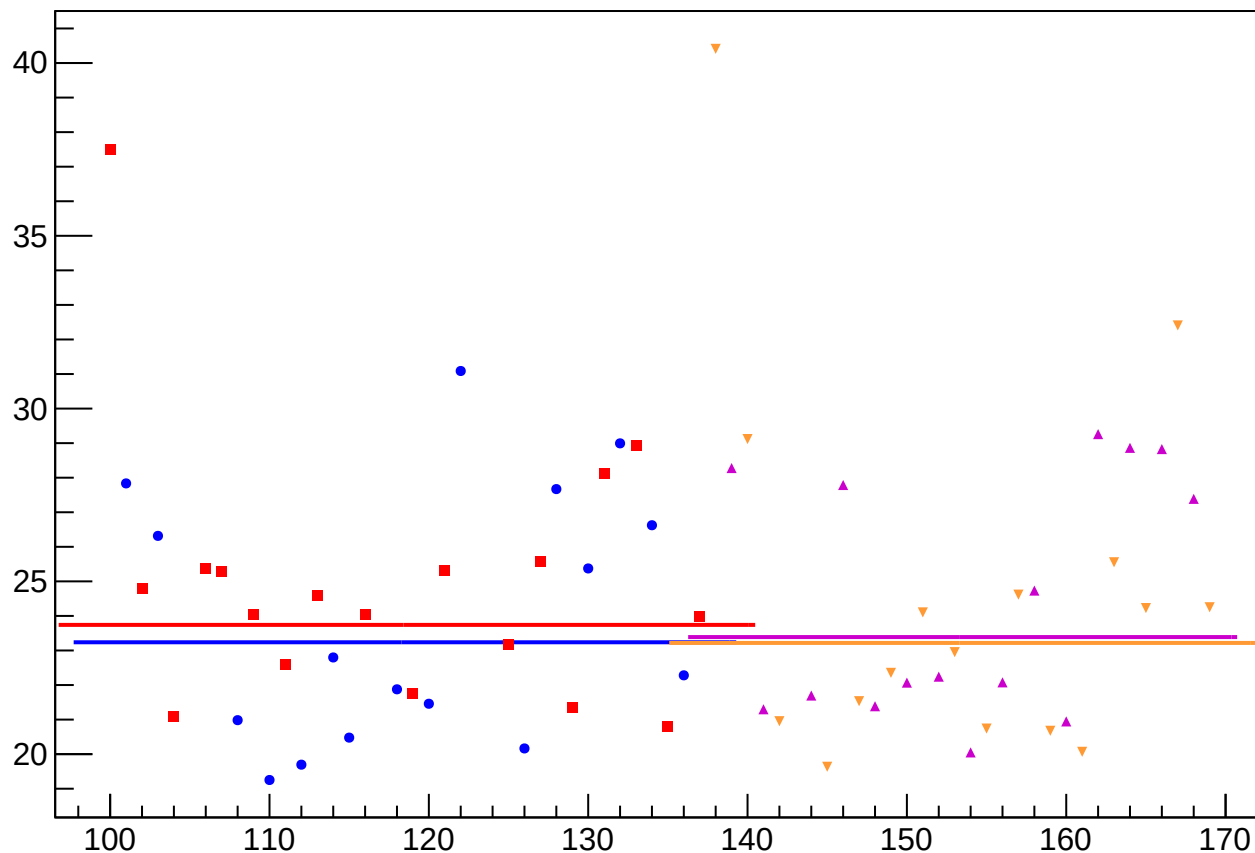
Right: -0.004 ± 0.007 χ^2/NDF : 22.7/33

In: -0.003 ± 0.006 χ^2/NDF : 29.0/30

Out: -0.002 ± 0.006 χ^2/NDF : 21.9/33

All: -0.002 ± 0.004 χ^2/NDF : 50.9/64

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.237 $\pm$ 0.007 χ^2 /NDF: 259224.2/15

Left Out: 23.219 $\pm$ 0.005 χ^2 /NDF: 590899.3/15

Right Out: 23.741 $\pm$ 0.007 χ^2 /NDF: 126132.7/17

Left In: 23.388 $\pm$ 0.005 χ^2 /NDF: 361926.5/14

Left: 23.303 $\pm$ 0.004 χ^2 /NDF: 953394.6/30

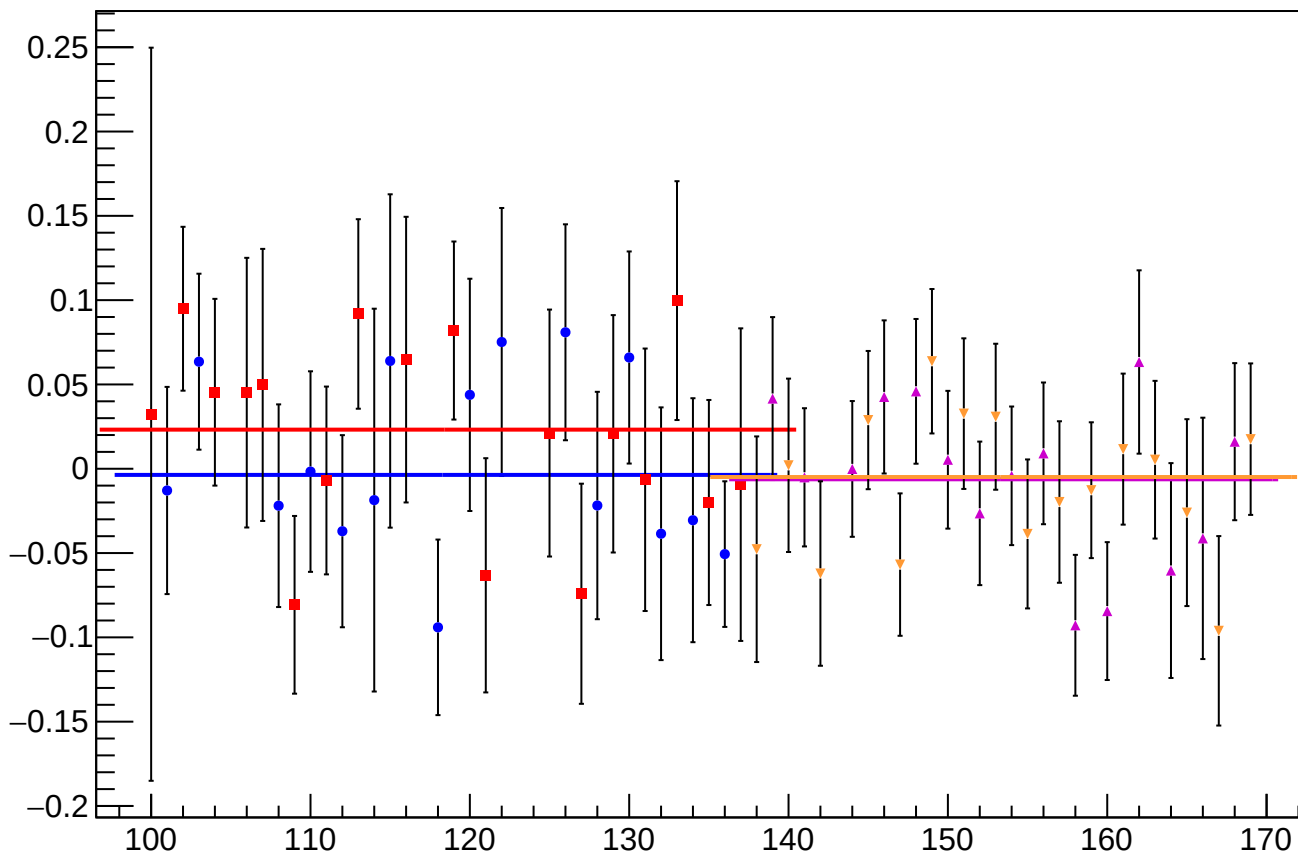
Right: 23.487 $\pm$ 0.005 χ^2 /NDF: 388292.2/33

In: 23.332 $\pm$ 0.004 χ^2 /NDF: 621483.6/30

Out: 23.410 $\pm$ 0.004 χ^2 /NDF: 721009.6/33

All: 23.371 $\pm$ 0.003 χ^2 /NDF: 1342683.6/64

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.004 ± 0.016 $\chi^2/\text{NDF}: 11.7/15$

Left Out: -0.005 ± 0.012 $\chi^2/\text{NDF}: 11.6/15$

Right Out: 0.023 ± 0.016 $\chi^2/\text{NDF}: 15.4/17$

Left In: -0.006 ± 0.012 $\chi^2/\text{NDF}: 14.9/14$

Left: -0.006 ± 0.008 $\chi^2/\text{NDF}: 26.5/30$

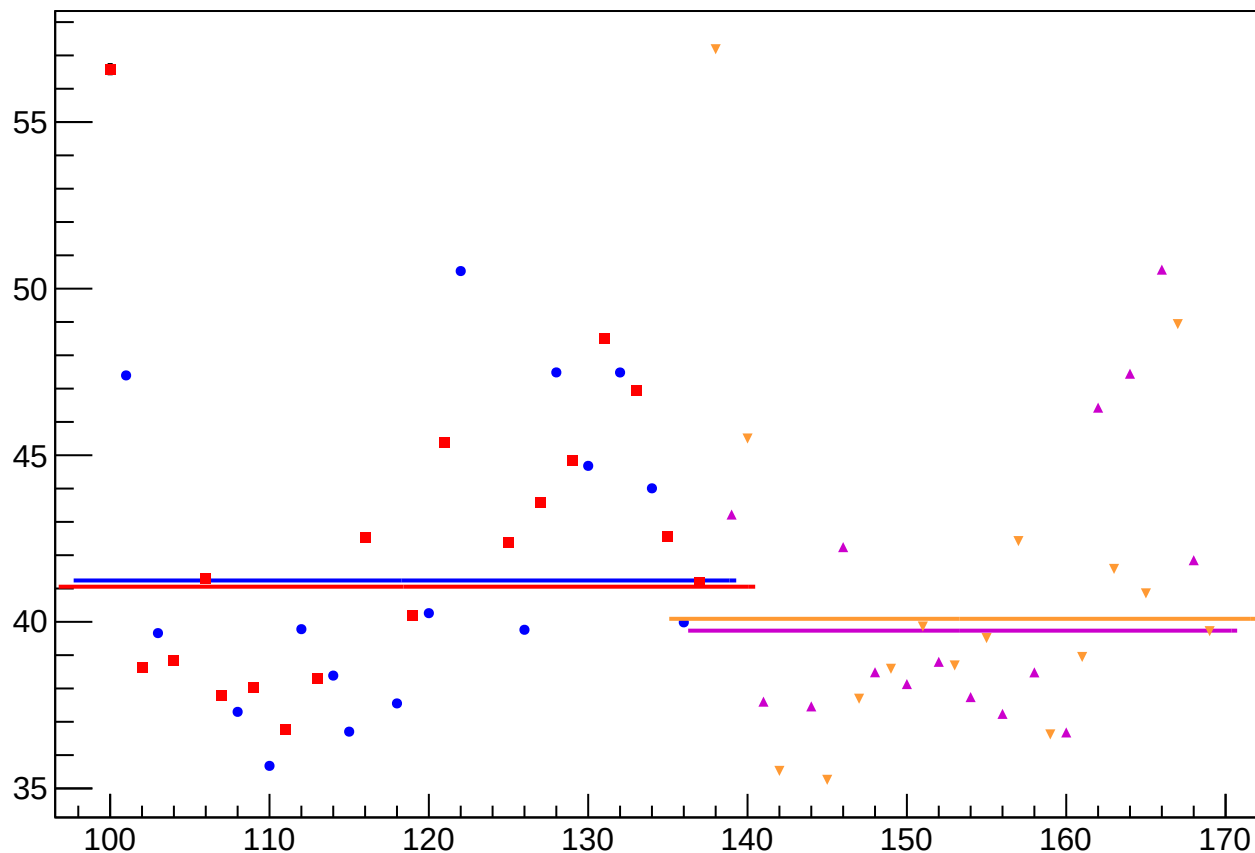
Right: 0.010 ± 0.011 $\chi^2/\text{NDF}: 28.5/33$

In: -0.005 ± 0.009 $\chi^2/\text{NDF}: 26.5/30$

Out: 0.005 ± 0.009 $\chi^2/\text{NDF}: 29.1/33$

All: -0.000 ± 0.007 $\chi^2/\text{NDF}: 56.3/64$

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.241 $\pm$ 0.011 χ^2 /NDF: 135256.9/15

Left Out: 40.091 $\pm$ 0.008 χ^2 /NDF: 278823.8/15

Right Out: 41.055 $\pm$ 0.011 χ^2 /NDF: 96549.4/17

Left In: 39.735 $\pm$ 0.008 χ^2 /NDF: 168310.0/14

Left: 39.912 $\pm$ 0.006 χ^2 /NDF: 448064.0/30

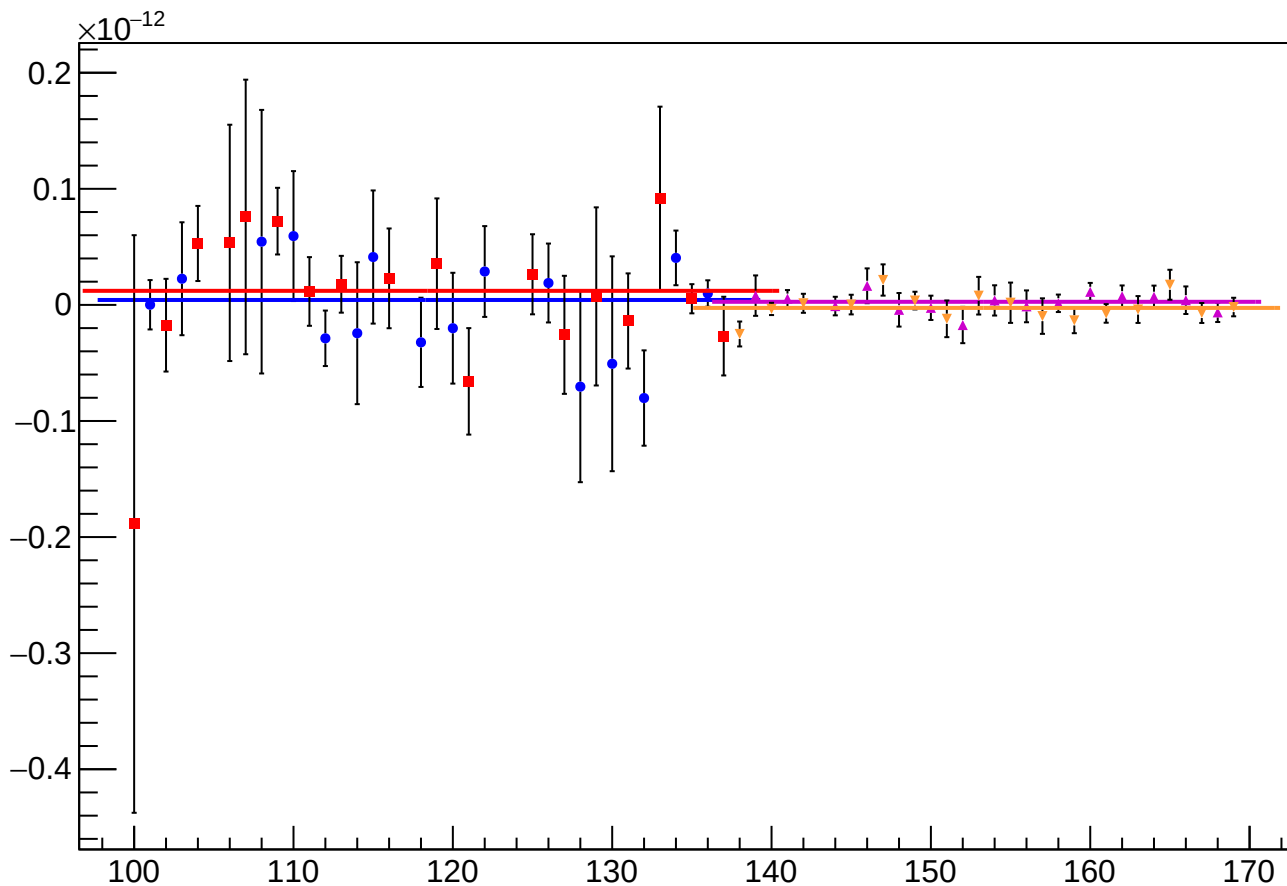
Right: 41.147 $\pm$ 0.008 χ^2 /NDF: 231949.1/33

In: 40.268 $\pm$ 0.007 χ^2 /NDF: 315414.0/30

Out: 40.440 $\pm$ 0.007 χ^2 /NDF: 380303.1/33

All: 40.354 $\pm$ 0.005 χ^2 /NDF: 696056.8/64

asym_us_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 13.6/15

Left Out: -0.000+/-0.000 χ^2/NDF :13.7/15

Right Out: 0.000+/-0.000 χ^2/NDF : 14.5/17

Left In: 0.000+/-0.000 χ^2/NDF :6.4/14

Left: -0.000+/-0.000 χ^2/NDF : 22.3/30

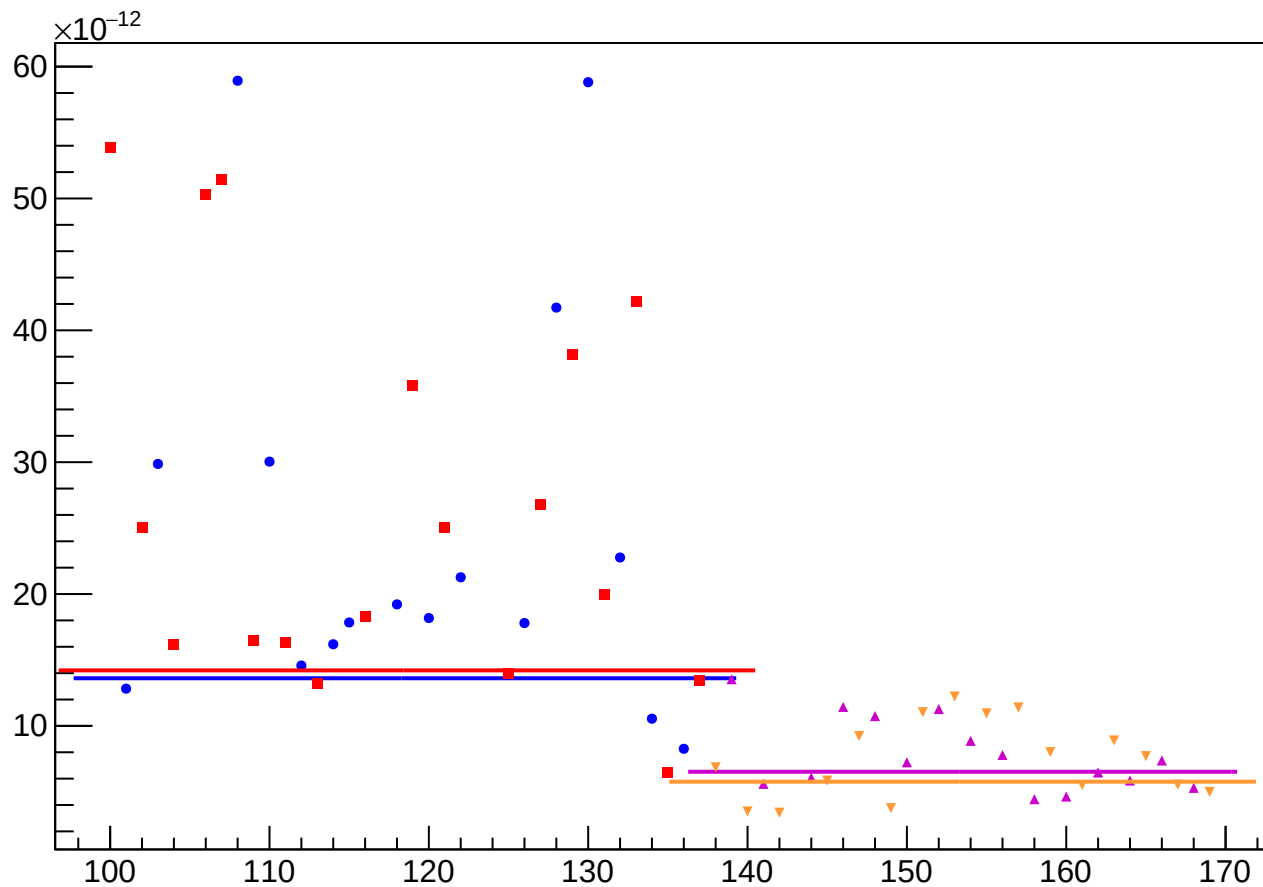
Right: 0.000+/-0.000 χ^2/NDF : 28.7/33

In: 0.000+/-0.000 χ^2/NDF :20.1/30

Out: -0.000+/-0.000 χ^2/NDF :31.5/33

All: 0.000+/-0.000 χ^2/NDF : 53.2/64

asym_us_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2188622.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2109055.2/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2471664.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 1358891.7/14

Left: 0.000+/-0.000 χ^2/NDF : 3560479.3/30

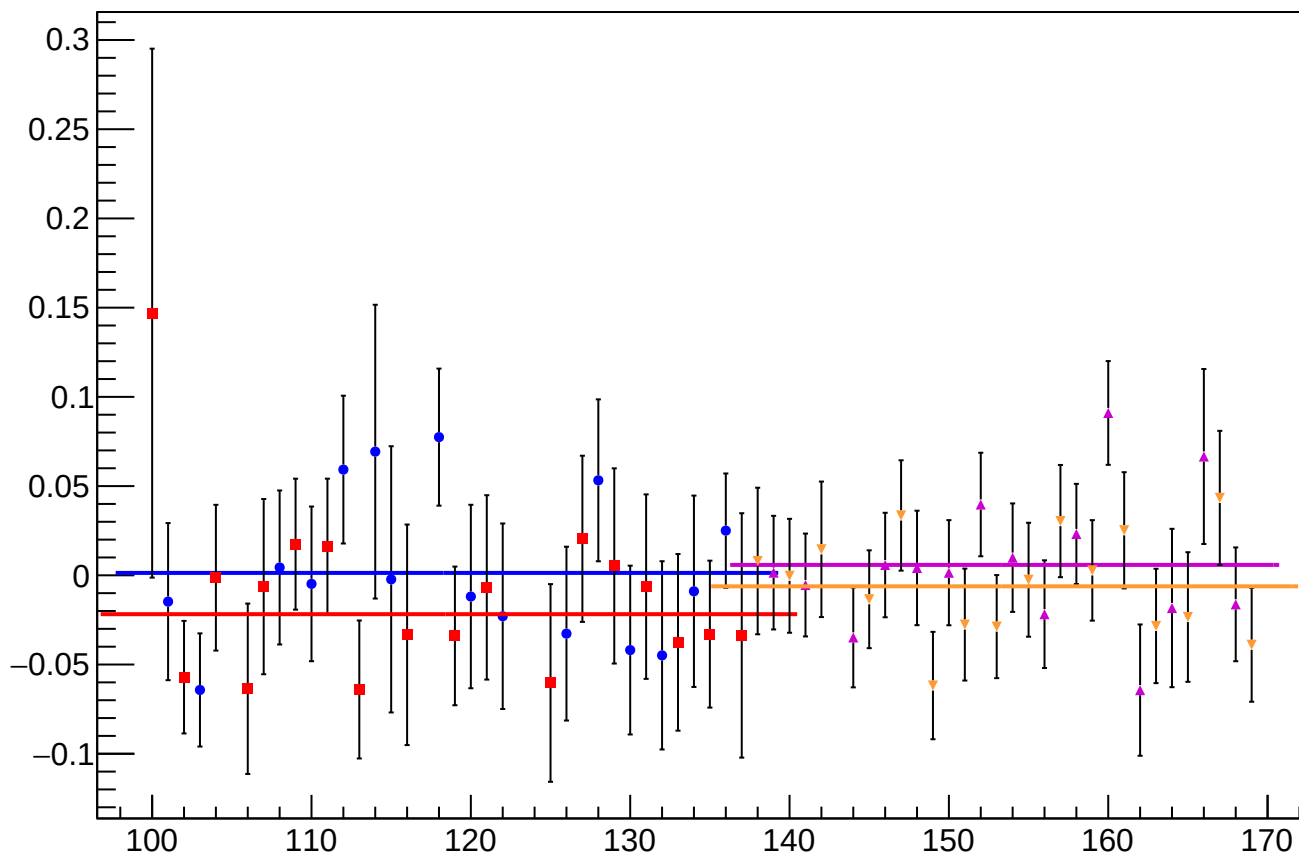
Right: 0.000+/-0.000 χ^2/NDF : 4666493.6/33

In: 0.000+/-0.000 χ^2/NDF : 5192360.9/30

Out: 0.000+/-0.000 χ^2/NDF : 6730952.9/33

All: 0.000+/-0.000 χ^2/NDF : 12043384.4/64

asym_us_dd_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.011 $\chi^2/\text{NDF}: 15.3/15$

Left Out: -0.006 ± 0.008 $\chi^2/\text{NDF}: 12.6/15$

Right Out: -0.022 ± 0.011 $\chi^2/\text{NDF}: 9.0/17$

Left In: 0.006 ± 0.008 $\chi^2/\text{NDF}: 19.4/14$

Left: -0.000 ± 0.006 $\chi^2/\text{NDF}: 33.1/30$

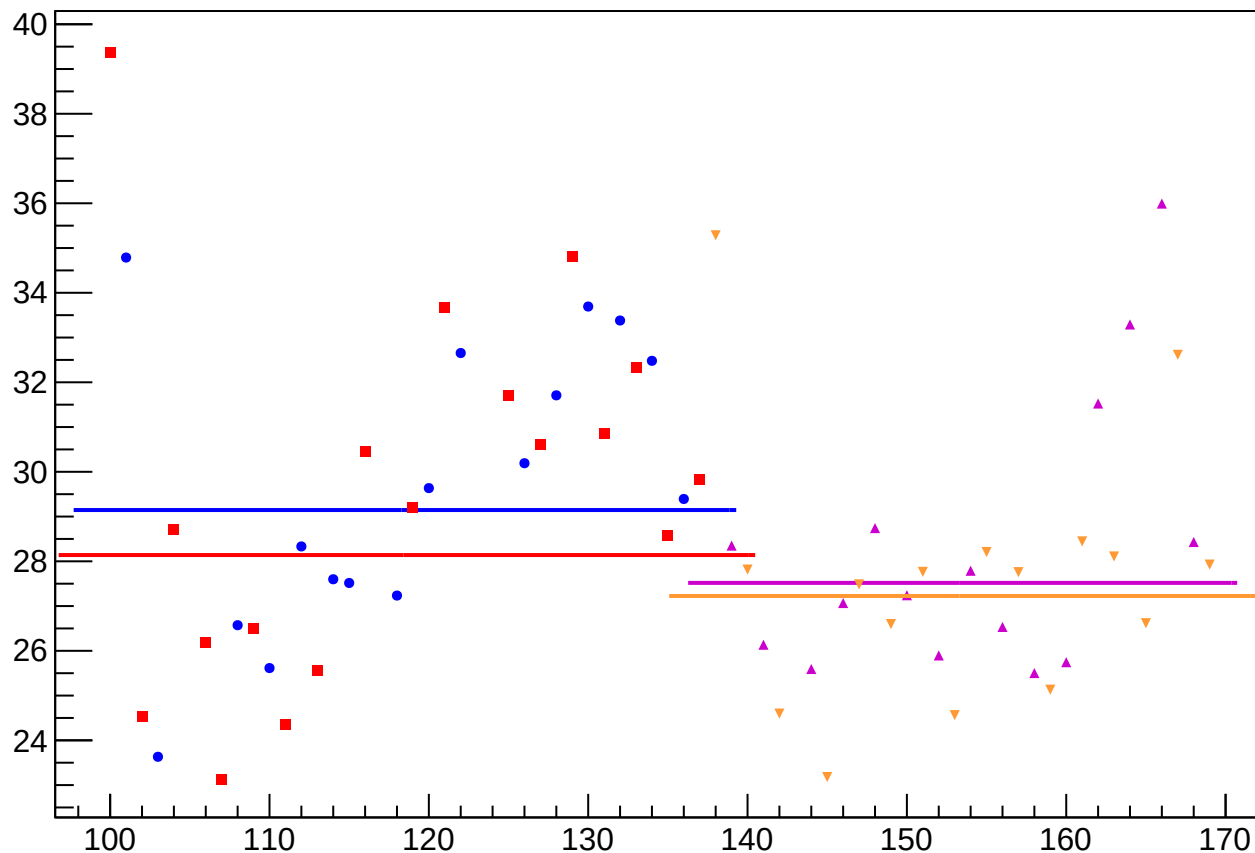
Right: -0.011 ± 0.008 $\chi^2/\text{NDF}: 26.5/33$

In: 0.004 ± 0.007 $\chi^2/\text{NDF}: 34.8/30$

Out: -0.012 ± 0.006 $\chi^2/\text{NDF}: 22.9/33$

All: -0.004 ± 0.005 $\chi^2/\text{NDF}: 60.8/64$

asym_us_dd_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.146+/-0.008 χ^2/NDF : 176889.4/15

Left Out: 27.225+/-0.006 χ^2/NDF :209932.2/15

Right Out: 28.140+/-0.008 χ^2/NDF : 187103.8/17

Left In: 27.518+/-0.006 χ^2/NDF :164225.8/14

Left: 27.370+/-0.004 χ^2/NDF : 375476.2/30

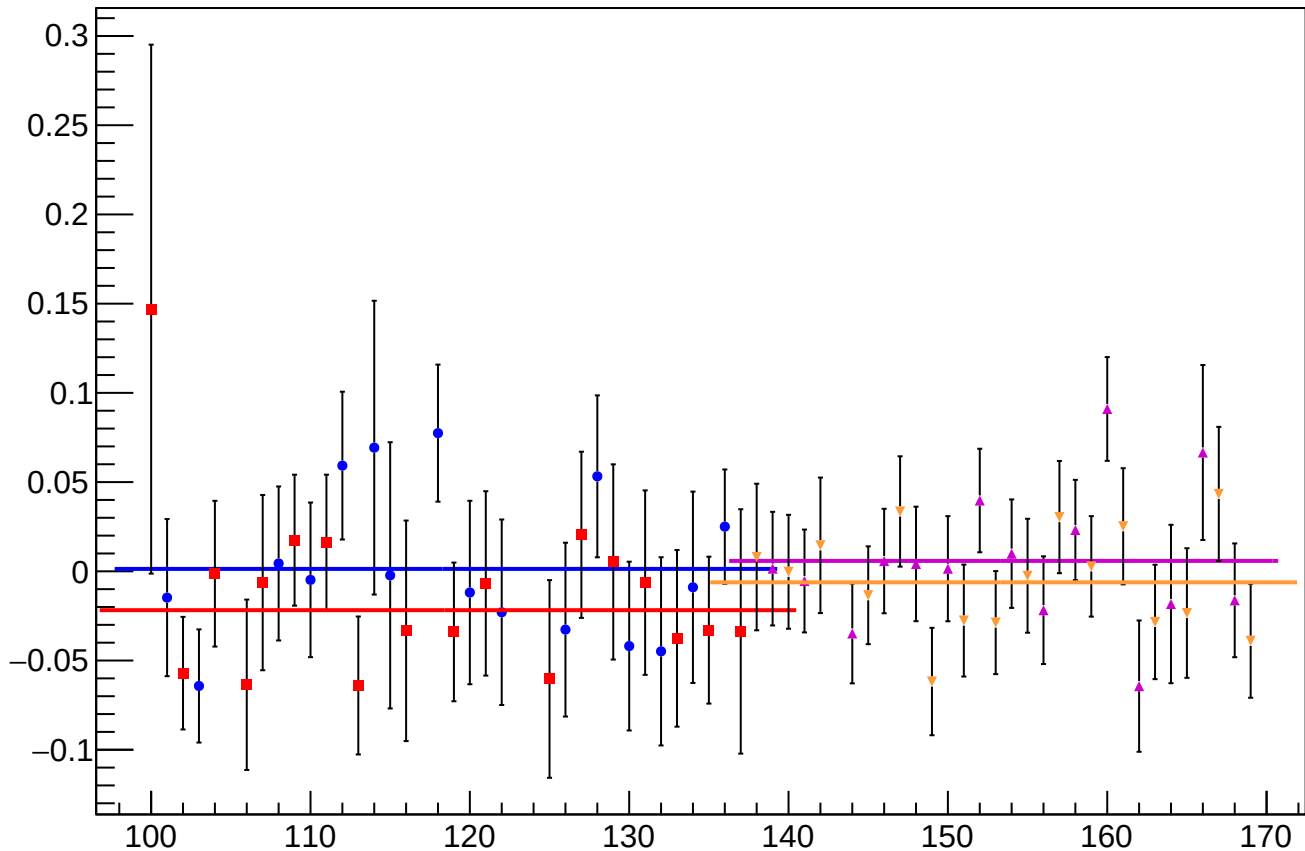
Right: 28.623+/-0.005 χ^2/NDF : 372352.6/33

In: 28.076+/-0.005 χ^2/NDF :368799.4/30

Out: 27.551+/-0.005 χ^2/NDF :406313.5/33

All: 27.808+/-0.003 χ^2/NDF : 781654.0/64

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.011 χ^2/NDF : 15.3/15

Left Out: -0.006 $\pm$ 0.008 χ^2/NDF :12.6/15

Right Out: -0.022 $\pm$ 0.011 χ^2/NDF : 9.0/17

Left In: 0.006 $\pm$ 0.008 χ^2/NDF :19.4/14

Left: -0.000 $\pm$ 0.006 χ^2/NDF : 33.1/30

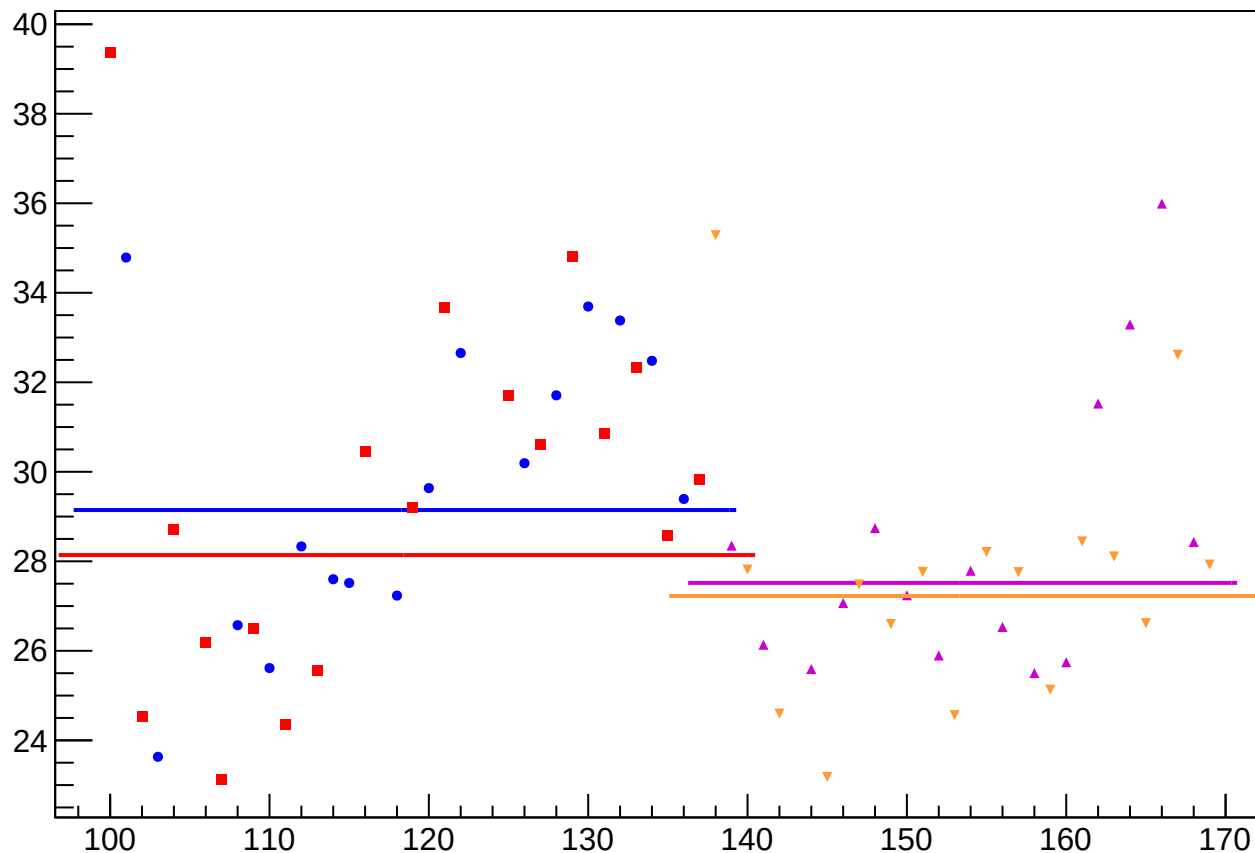
Right: -0.011 $\pm$ 0.008 χ^2/NDF : 26.5/33

In: 0.004 $\pm$ 0.007 χ^2/NDF :34.8/30

Out: -0.012 $\pm$ 0.006 χ^2/NDF :22.9/33

All: -0.004 $\pm$ 0.005 χ^2/NDF : 60.8/64

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.146 ± 0.008 $\chi^2/\text{NDF}: 176889.4/15$

Left Out: 27.225 ± 0.006 $\chi^2/\text{NDF}: 209932.2/15$

Right Out: 28.140 ± 0.008 $\chi^2/\text{NDF}: 187103.8/17$

Left In: 27.518 ± 0.006 $\chi^2/\text{NDF}: 164225.8/14$

Left: 27.370 ± 0.004 $\chi^2/\text{NDF}: 375476.2/30$

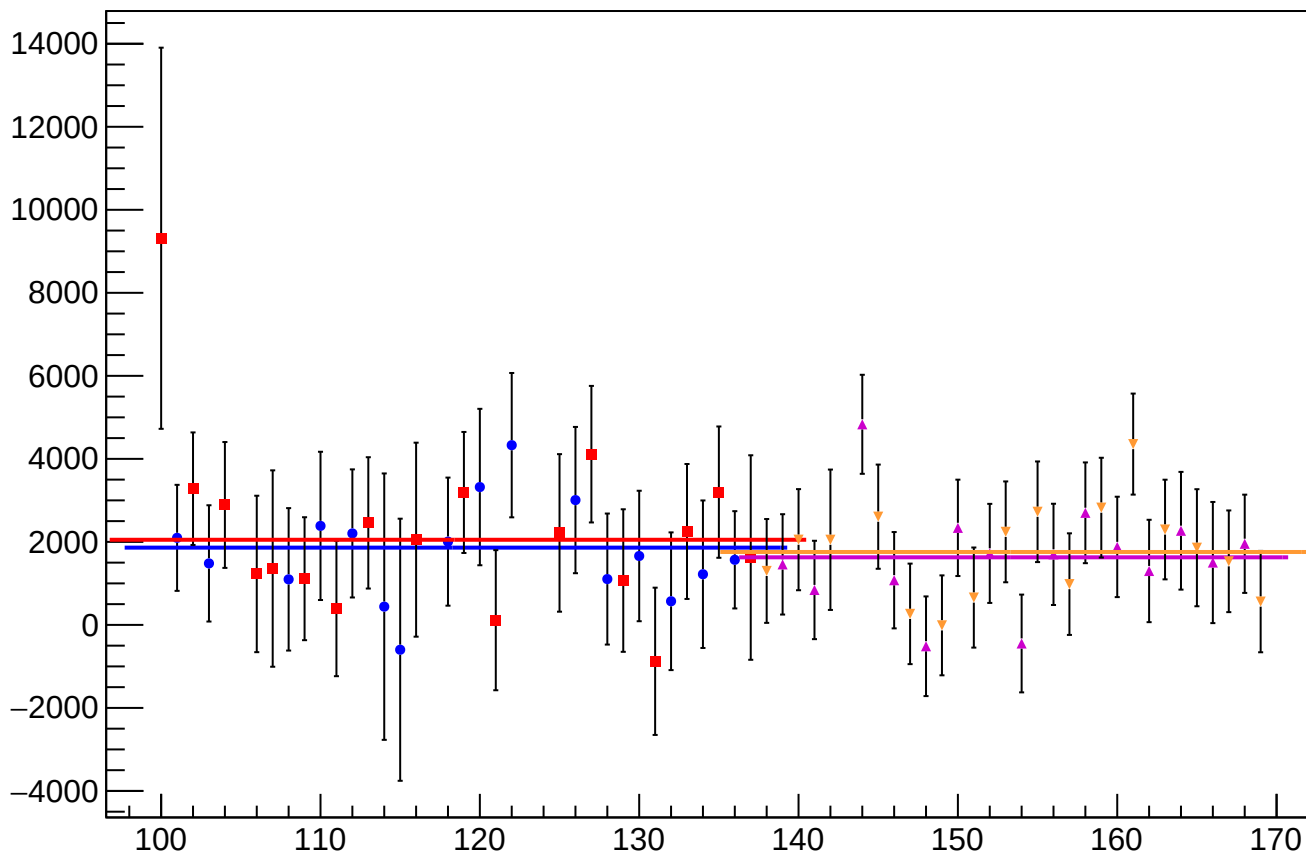
Right: 28.623 ± 0.005 $\chi^2/\text{NDF}: 372352.6/33$

In: 28.076 ± 0.005 $\chi^2/\text{NDF}: 368799.4/30$

Out: 27.551 ± 0.005 $\chi^2/\text{NDF}: 406313.5/33$

All: 27.808 ± 0.003 $\chi^2/\text{NDF}: 781654.0/64$

reg_asym_usl_mean vs Slug, Sign Corrected



Right In: 1861.525 $\pm$ 409.524 χ^2 /NDF: 5.3/15

Left Out: 1756.575 $\pm$ 311.809 χ^2 /NDF:12.9/15

Right Out: 2050.842 $\pm$ 409.249 χ^2 /NDF: 12.5/17

Left In: 1627.987 $\pm$ 315.059 χ^2 /NDF:15.8/14

Left: 1692.948 $\pm$ 221.622 χ^2 /NDF: 28.8/30

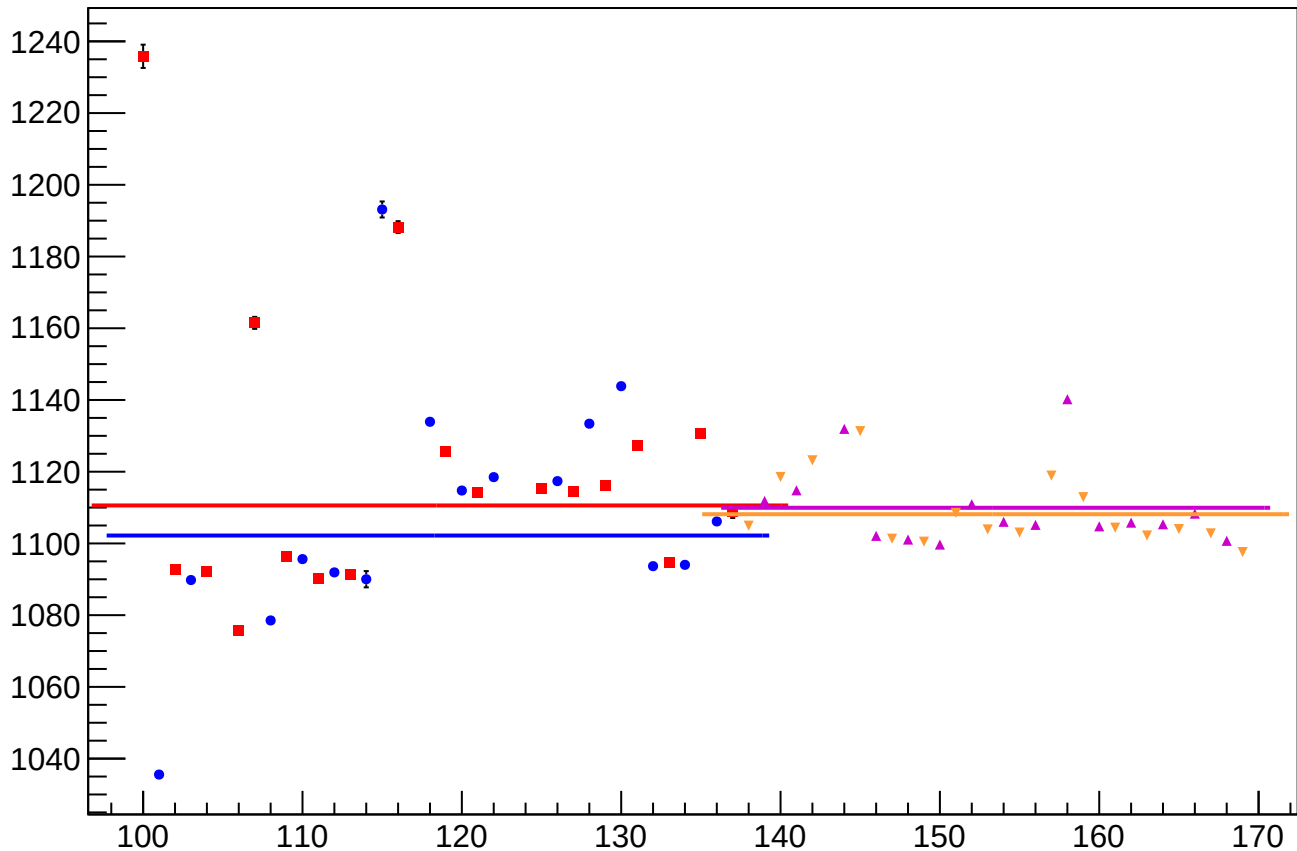
Right: 1956.247 $\pm$ 289.480 χ^2 /NDF: 18.0/33

In: 1714.818 $\pm$ 249.711 χ^2 /NDF:21.3/30

Out: 1864.656 $\pm$ 248.023 χ^2 /NDF:25.8/33

All: 1790.246 $\pm$ 175.973 χ^2 /NDF: 47.3/64

reg_asym_usl_rms vs Slug, Sign Corrected



Right In: 1102.205 ± 0.290 $\chi^2/\text{NDF}: 11348.9/15$

Left Out: 1108.148 ± 0.220 $\chi^2/\text{NDF}: 1661.3/15$

Right Out: 1110.592 ± 0.289 $\chi^2/\text{NDF}: 7696.0/17$

Left In: 1109.944 ± 0.223 $\chi^2/\text{NDF}: 2577.8/14$

Left: 1109.037 ± 0.157 $\chi^2/\text{NDF}: 4271.9/30$

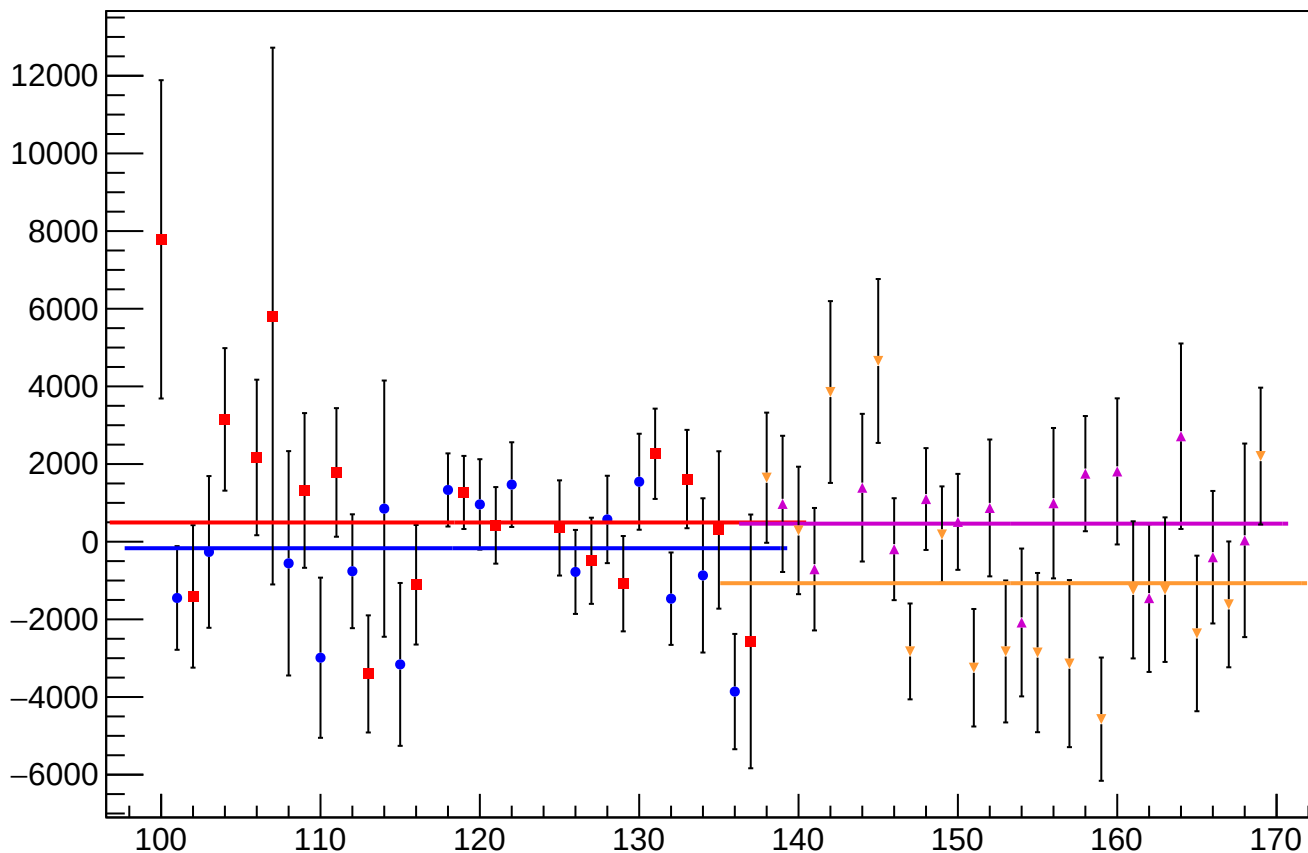
Right: 1106.401 ± 0.205 $\chi^2/\text{NDF}: 19464.6/33$

In: 1107.067 ± 0.177 $\chi^2/\text{NDF}: 14375.4/30$

Out: 1109.046 ± 0.175 $\chi^2/\text{NDF}: 9402.4/33$

All: 1108.063 ± 0.124 $\chi^2/\text{NDF}: 23841.0/64$

asym_usl_reg_correction_mean vs Slug, Sign Corrected



Right In: -167.891 ± 345.441 χ^2/NDF : 21.0/15

Left Out: -1068.715 ± 422.984 χ^2/NDF : 31.7/15

Right Out: 495.172 ± 345.054 χ^2/NDF : 23.3/17

Left In: 464.865 ± 431.230 χ^2/NDF : 6.7/14

Left: -316.729 ± 301.968 χ^2/NDF : 44.9/30

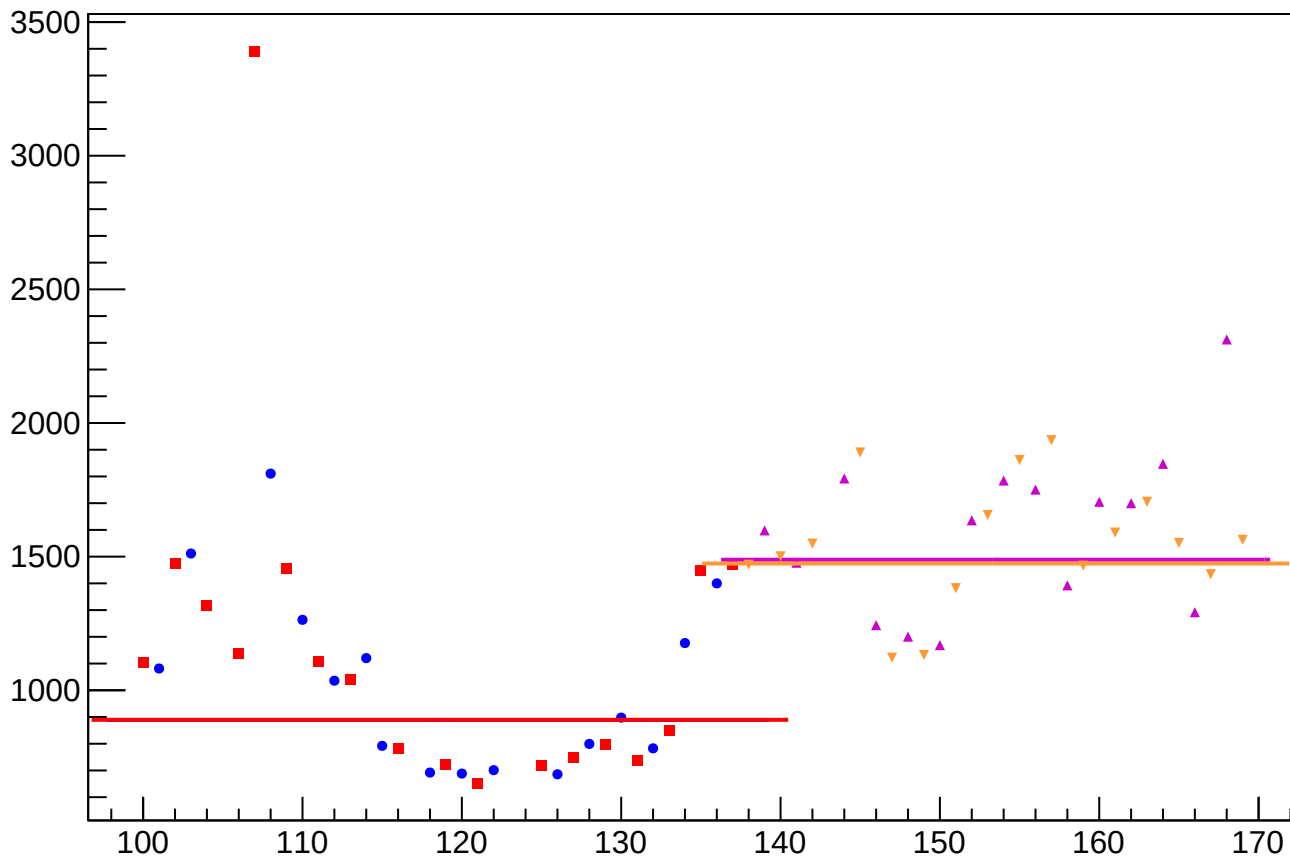
Right: 164.012 ± 244.127 χ^2/NDF : 46.1/33

In: 79.437 ± 269.605 χ^2/NDF : 29.1/30

Out: -129.708 ± 267.374 χ^2/NDF : 63.2/33

All: -26.004 ± 189.846 χ^2/NDF : 92.5/64

asym_usl_reg_correction_rms vs Slug, Sign Corrected



Right In: 888.956+/-0.244 χ^2/NDF : 1132766.3/15

Left Out: 1474.275+/-0.299 χ^2/NDF : 634290.1/15

Right Out: 889.478+/-0.244 χ^2/NDF : 1345750.2/17

Left In: 1488.461+/-0.305 χ^2/NDF : 807707.7/14

Left: 1481.231+/-0.214 χ^2/NDF : 1443100.9/30

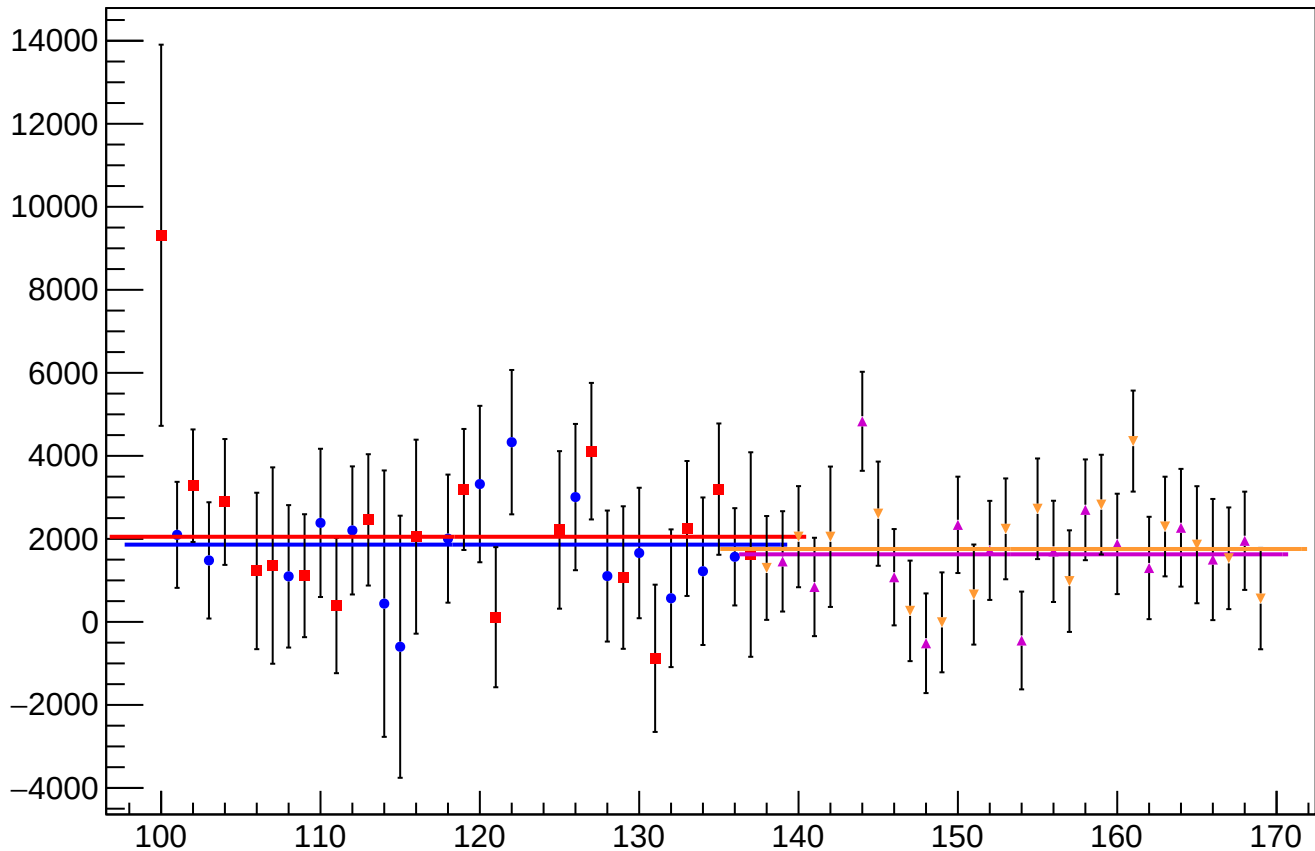
Right: 889.217+/-0.173 χ^2/NDF : 2478518.8/33

In: 1123.287+/-0.191 χ^2/NDF : 4295008.0/30

Out: 1123.144+/-0.189 χ^2/NDF : 4275432.4/33

All: 1123.215+/-0.134 χ^2/NDF : 8570440.6/64

cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 1861.525 $\pm$ 409.524 χ^2 /NDF: 5.3/15

Left Out: 1756.575 $\pm$ 311.809 χ^2 /NDF:12.9/15

Right Out: 2050.842 $\pm$ 409.249 χ^2 /NDF: 12.5/17

Left In: 1627.987 $\pm$ 315.059 χ^2 /NDF:15.8/14

Left: 1692.948 $\pm$ 221.622 χ^2 /NDF: 28.8/30

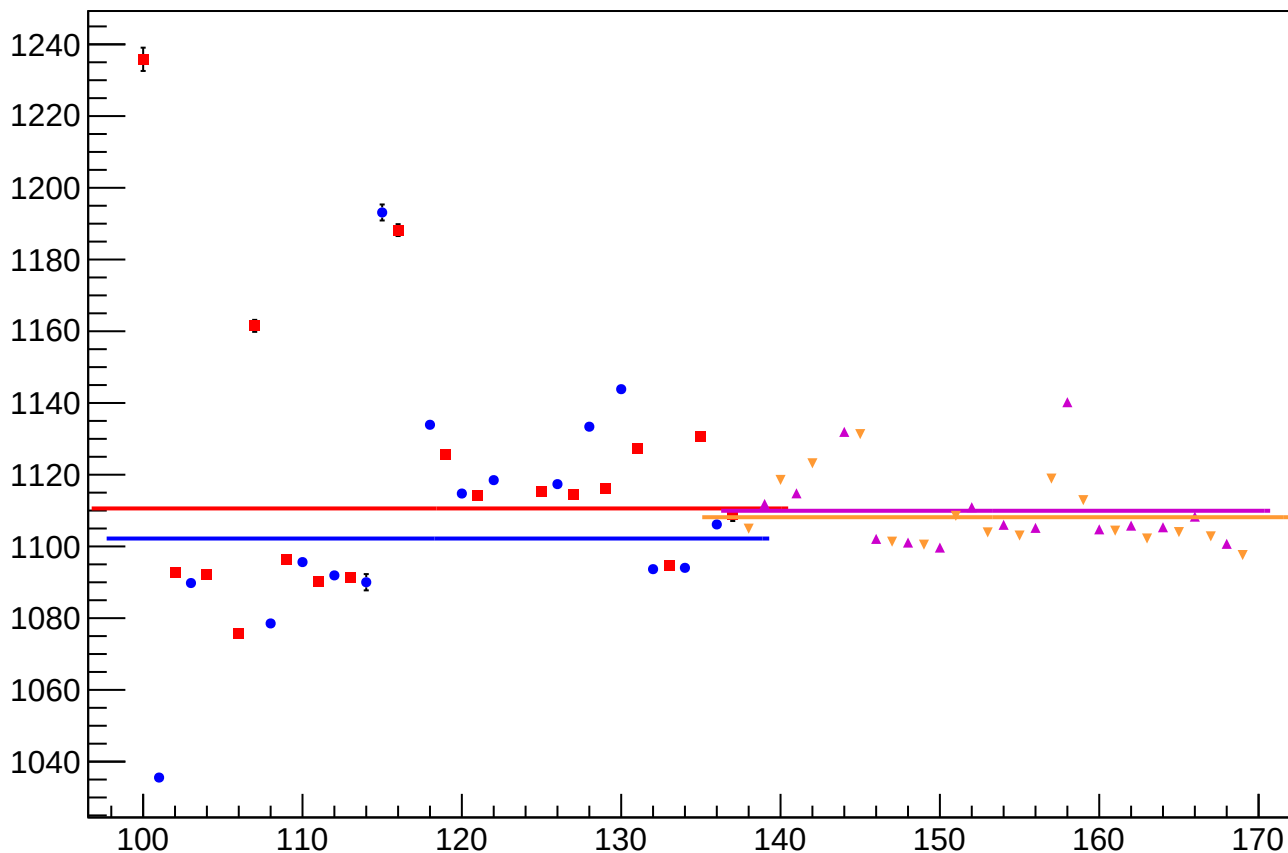
Right: 1956.247 $\pm$ 289.480 χ^2 /NDF: 18.0/33

In: 1714.818 $\pm$ 249.711 χ^2 /NDF:21.3/30

Out: 1864.656 $\pm$ 248.023 χ^2 /NDF:25.8/33

All: 1790.246 $\pm$ 175.973 χ^2 /NDF: 47.3/64

cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1102.205+/-0.290 χ^2/NDF : 11348.9/15

Left Out: 1108.148+/-0.220 χ^2/NDF : 1661.3/15

Right Out: 1110.592+/-0.289 χ^2/NDF : 7696.0/17

Left In: 1109.944+/-0.223 χ^2/NDF : 2577.8/14

Left: 1109.037+/-0.157 χ^2/NDF : 4271.9/30

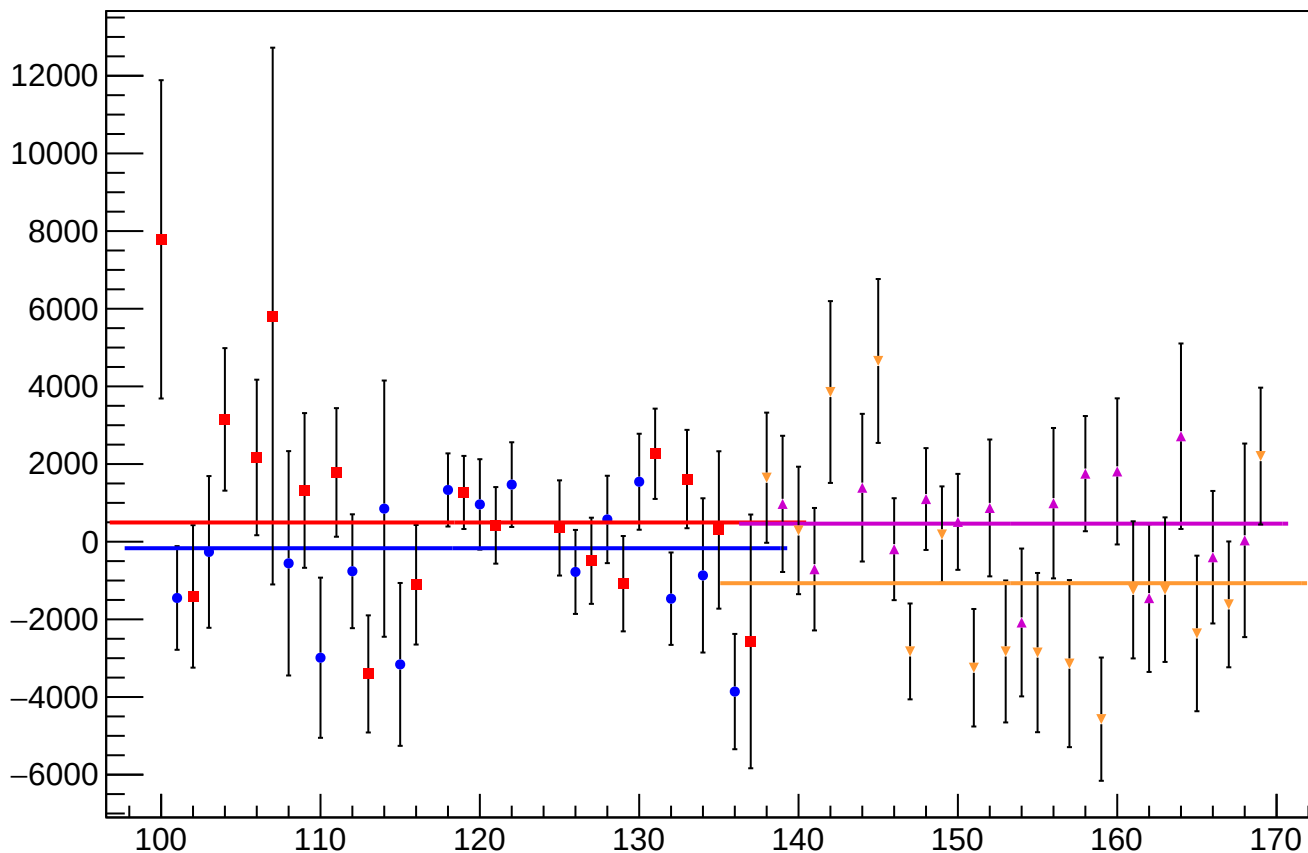
Right: 1106.401+/-0.205 χ^2/NDF : 19464.6/33

In: 1107.067+/-0.177 χ^2/NDF : 14375.4/30

Out: 1109.046+/-0.175 χ^2/NDF : 9402.4/33

All: 1108.063+/-0.124 χ^2/NDF : 23841.0/64

asym_usl_cor_correction_mean vs Slug, Sign Corrected



Right In: -167.891 ± 345.441 χ^2/NDF : 21.0/15

Left Out: -1068.715 ± 422.984 χ^2/NDF : 31.7/15

Right Out: 495.172 ± 345.054 χ^2/NDF : 23.3/17

Left In: 464.865 ± 431.230 χ^2/NDF : 6.7/14

Left: -316.729 ± 301.968 χ^2/NDF : 44.9/30

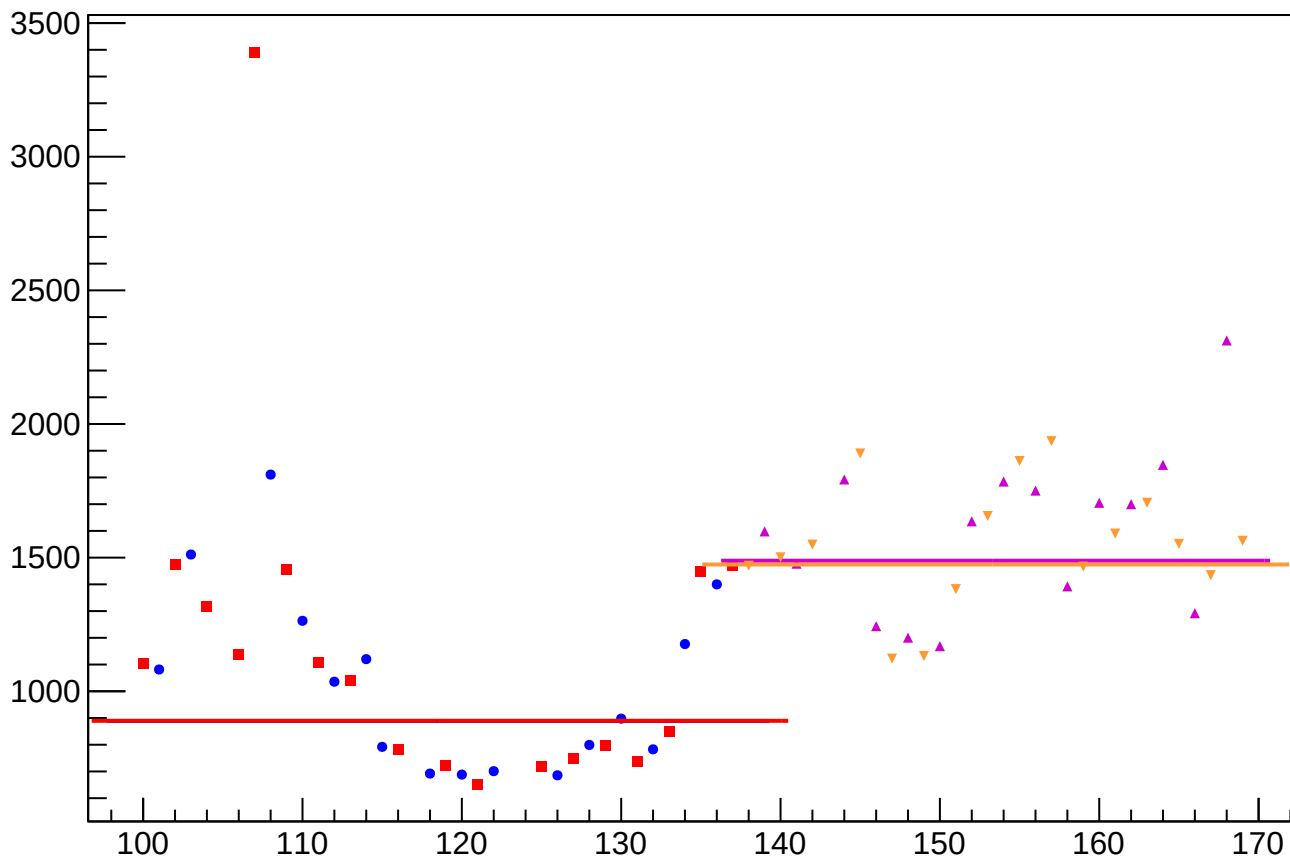
Right: 164.012 ± 244.127 χ^2/NDF : 46.1/33

In: 79.437 ± 269.605 χ^2/NDF : 29.1/30

Out: -129.708 ± 267.374 χ^2/NDF : 63.2/33

All: -26.004 ± 189.846 χ^2/NDF : 92.5/64

asym_usl_cor_correction_rms vs Slug, Sign Corrected



Right In: 888.956+/-0.244 χ^2/NDF : 1132766.3/15

Left Out: 1474.275+/-0.299 χ^2/NDF : 634290.1/15

Right Out: 889.478+/-0.244 χ^2/NDF : 1345750.2/17

Left In: 1488.461+/-0.305 χ^2/NDF : 807707.7/14

Left: 1481.231+/-0.214 χ^2/NDF : 1443100.9/30

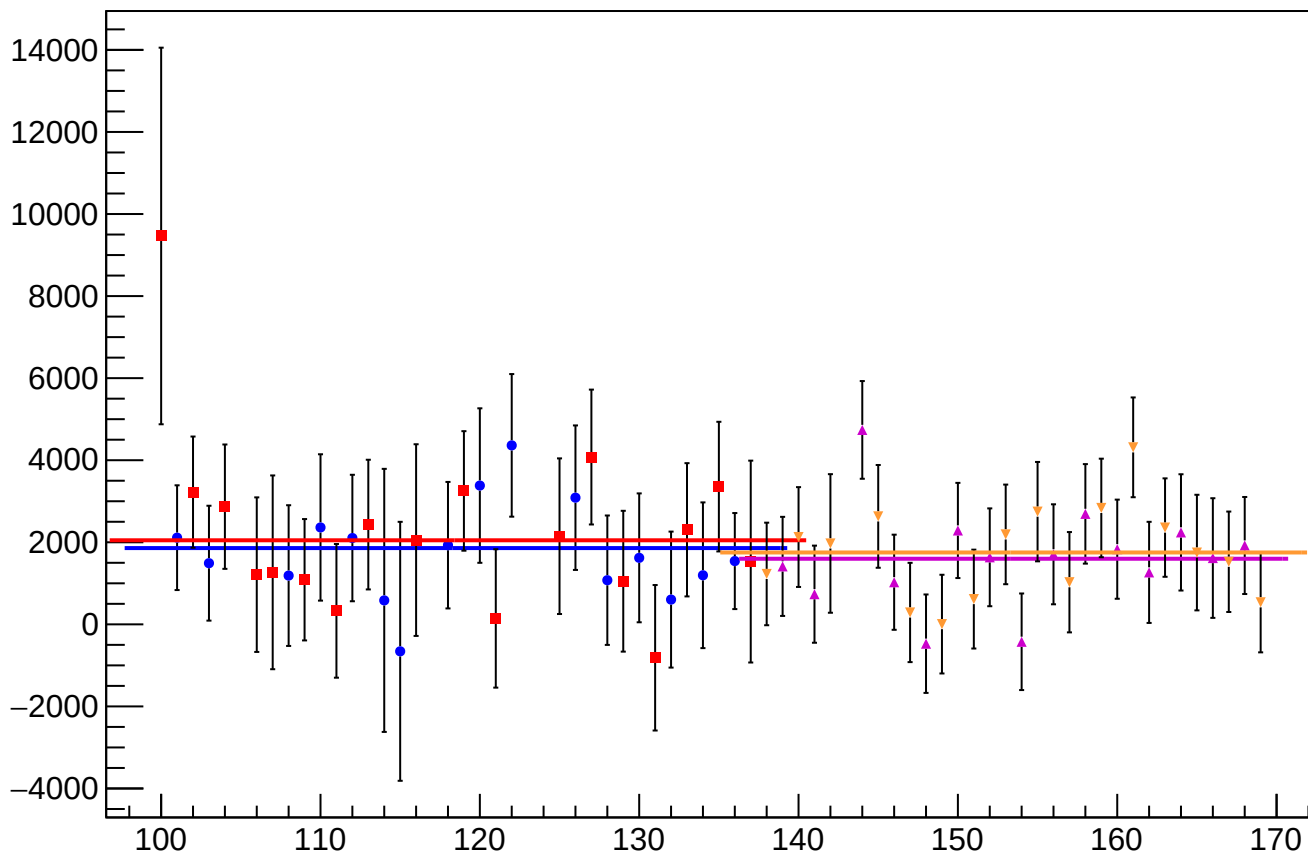
Right: 889.217+/-0.173 χ^2/NDF : 2478518.8/33

In: 1123.287+/-0.191 χ^2/NDF : 4295008.0/30

Out: 1123.144+/-0.189 χ^2/NDF : 4275432.4/33

All: 1123.215+/-0.134 χ^2/NDF : 8570440.6/64

overload_cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 1858.683 $\pm$ 409.170 χ^2 /NDF: 5.4/15

Left Out: 1751.614 $\pm$ 311.493 χ^2 /NDF:12.9/15

Right Out: 2048.674 $\pm$ 408.894 χ^2 /NDF: 12.7/17

Left In: 1598.589 $\pm$ 314.742 χ^2 /NDF:15.3/14

Left: 1675.895 $\pm$ 221.398 χ^2 /NDF: 28.3/30

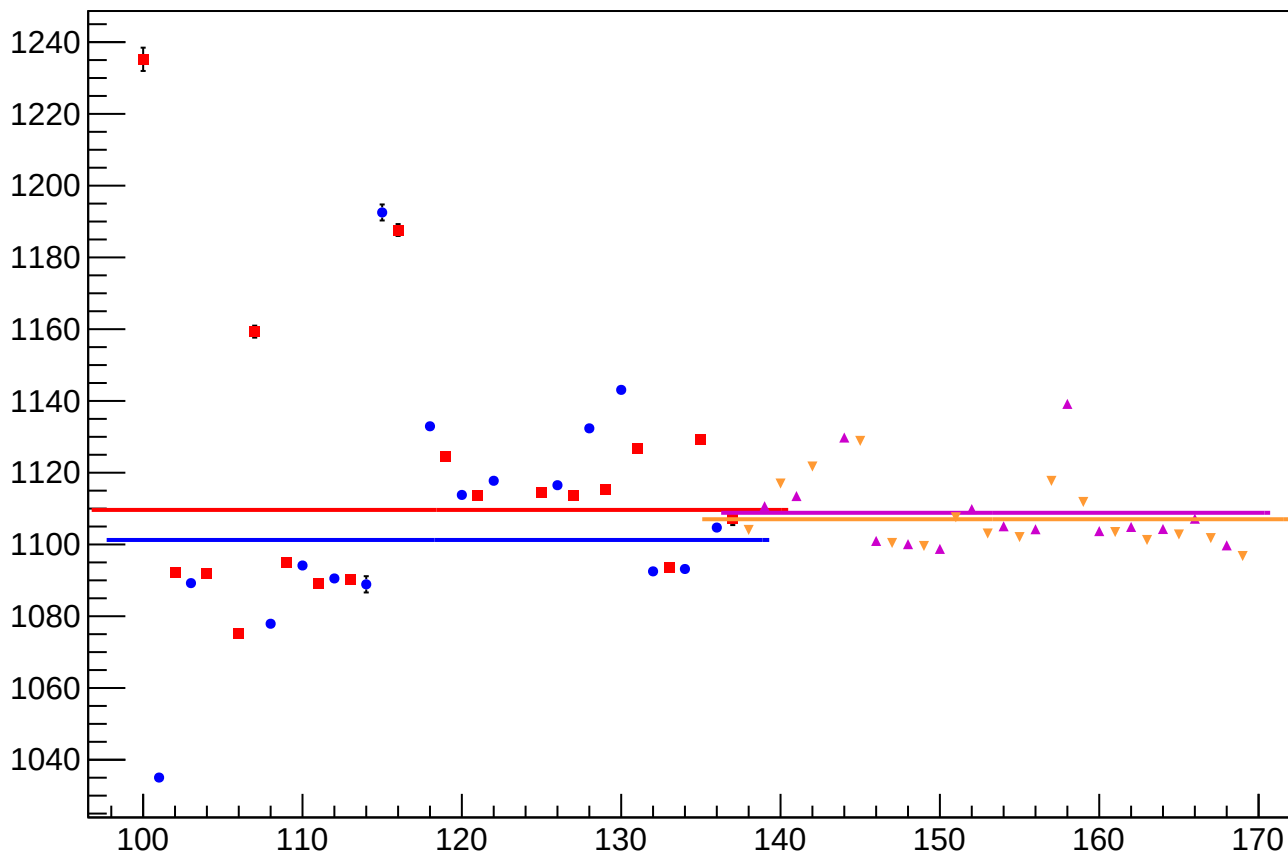
Right: 1953.743 $\pm$ 289.229 χ^2 /NDF: 18.3/33

In: 1695.276 $\pm$ 249.473 χ^2 /NDF:20.9/30

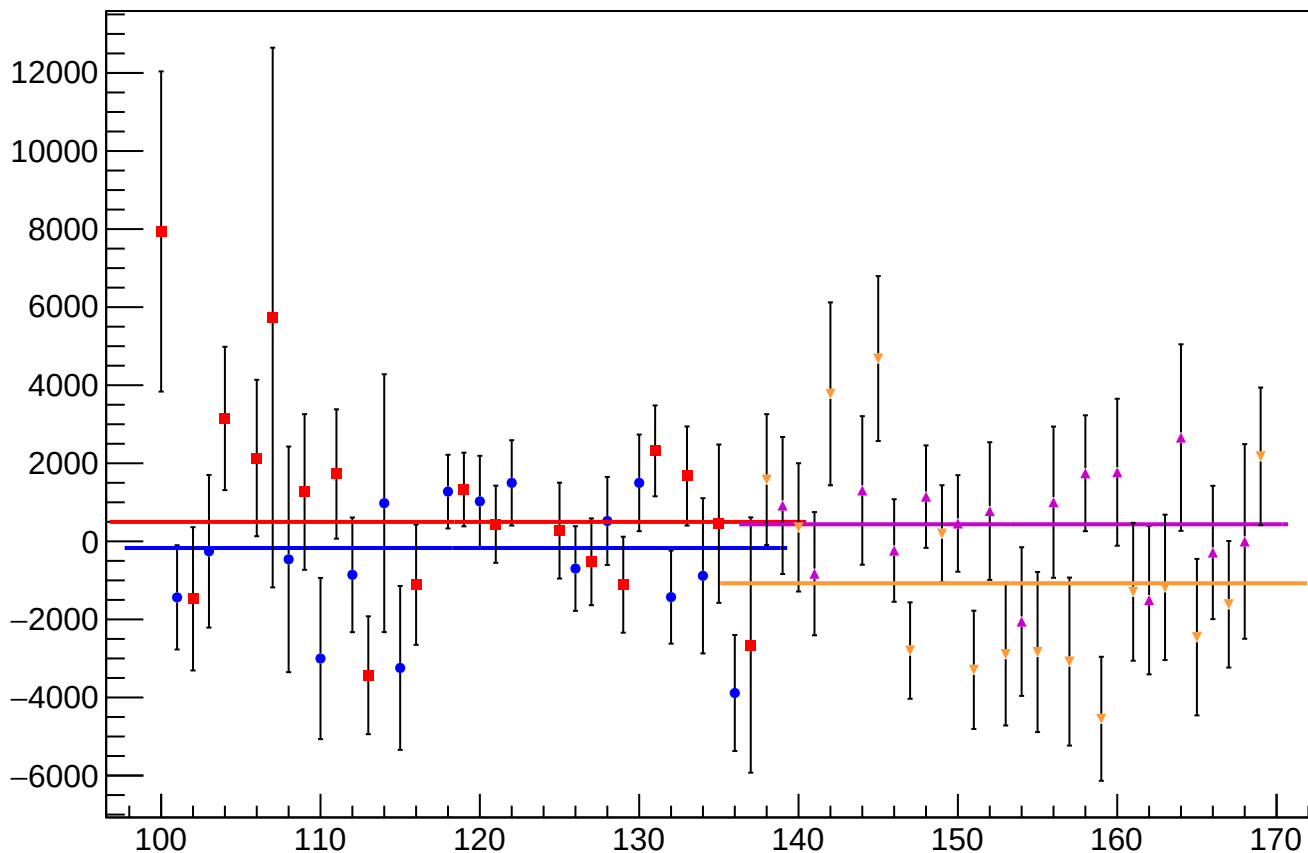
Out: 1860.701 $\pm$ 247.784 χ^2 /NDF:26.0/33

All: 1778.550 $\pm$ 175.804 χ^2 /NDF: 47.2/64

overload_cor_asym_usl_rms vs Slug, Sign Corrected



asym_usl_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: -170.930+/-345.980 χ^2/NDF : 20.9/15

Left Out: -1072.854+/-423.230 χ^2/NDF :31.5/15

Right Out: 497.957+/-345.565 χ^2/NDF : 23.9/17

Left In: 437.192+/-431.486 χ^2/NDF :6.7/14

Left: -332.415+/-302.146 χ^2/NDF : 44.5/30

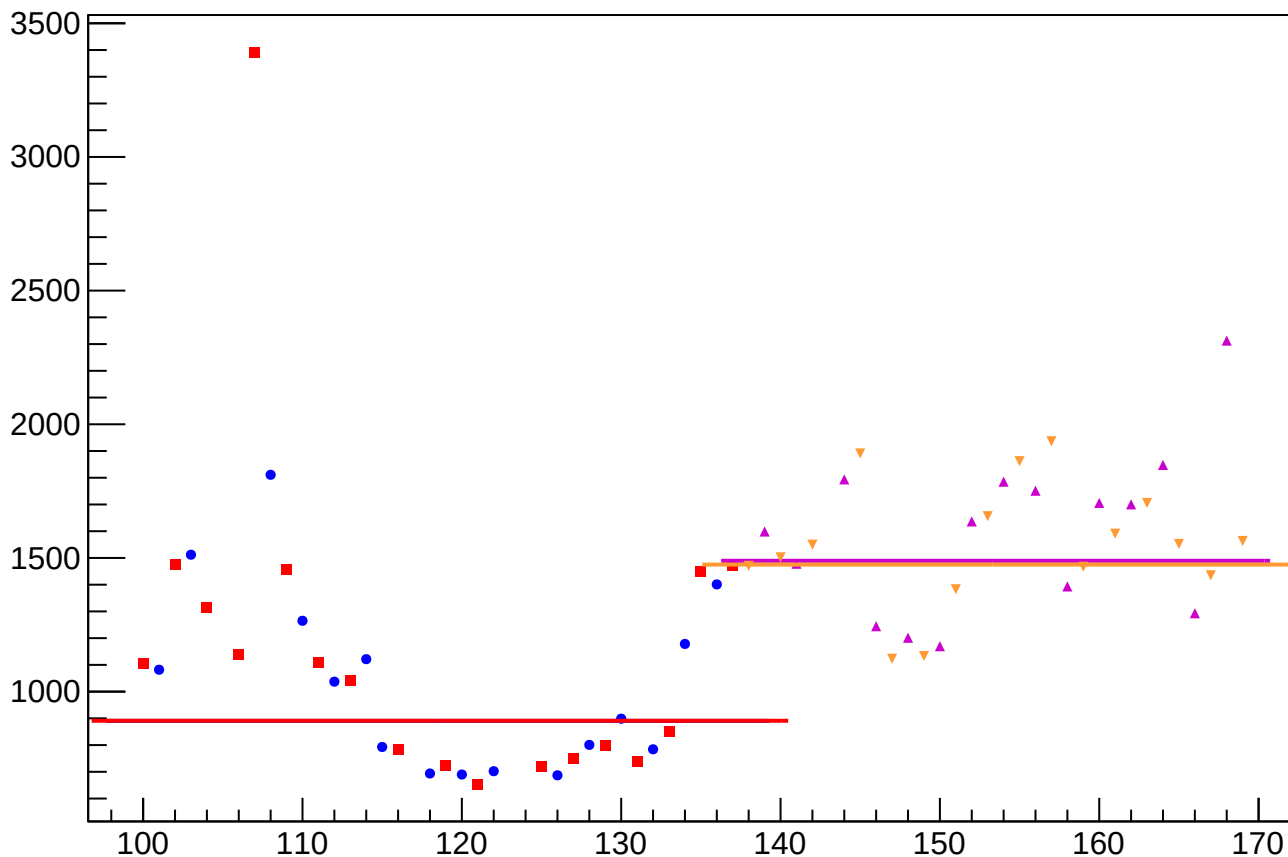
Right: 163.915+/-244.498 χ^2/NDF : 46.7/33

In: 67.049+/-269.924 χ^2/NDF :28.8/30

Out: -130.365+/-267.674 χ^2/NDF :63.7/33

All: -32.484+/-190.064 χ^2/NDF : 92.8/64

asym_usl_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 890.495+/-0.245 χ^2/NDF : 1128739.3/15

Left Out: 1475.178+/-0.299 χ^2/NDF : 633286.4/15

Right Out: 890.938+/-0.244 χ^2/NDF : 1341804.2/17

Left In: 1489.393+/-0.305 χ^2/NDF : 806377.6/14

Left: 1482.149+/-0.214 χ^2/NDF : 1440770.3/30

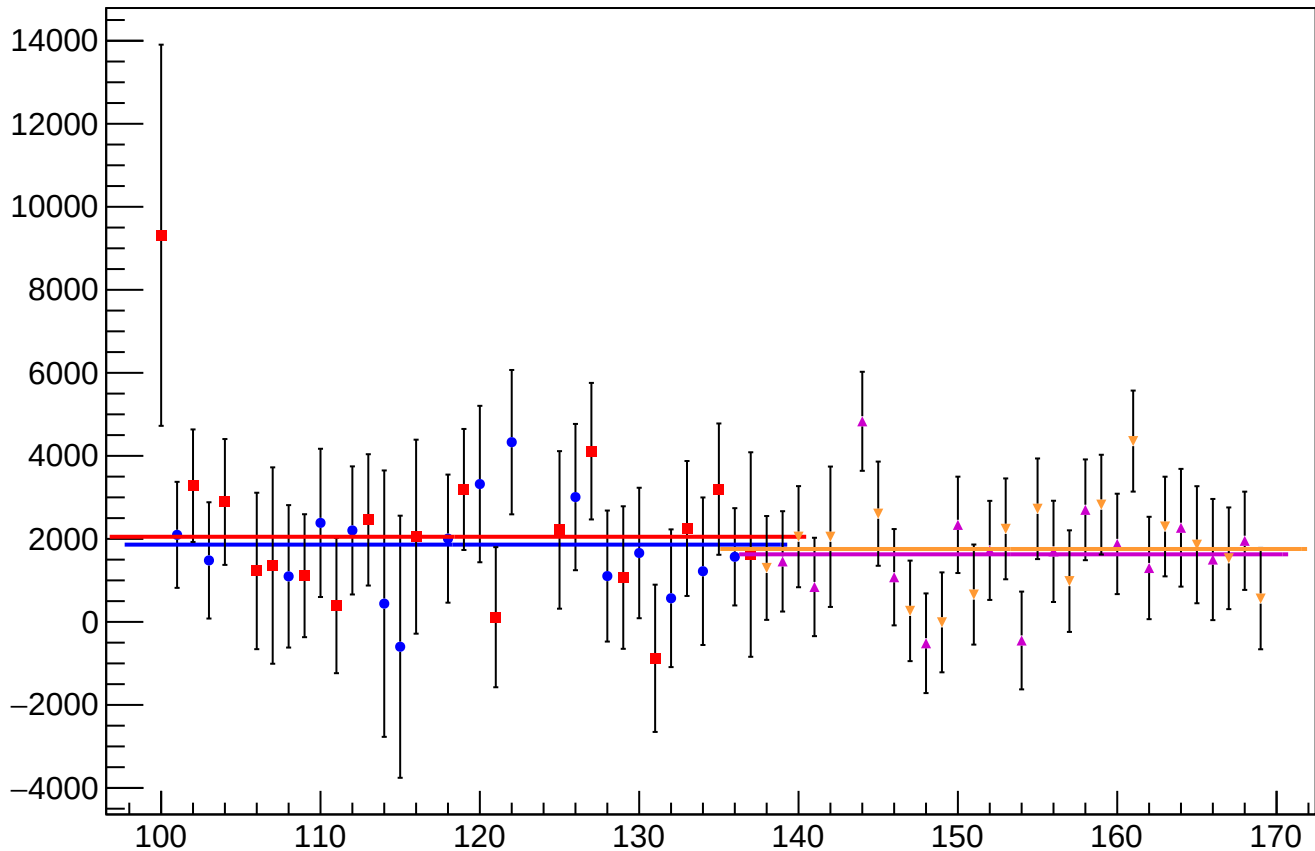
Right: 890.717+/-0.173 χ^2/NDF : 2470545.1/33

In: 1124.864+/-0.191 χ^2/NDF : 4280329.3/30

Out: 1124.634+/-0.189 χ^2/NDF : 4261799.5/33

All: 1124.748+/-0.134 χ^2/NDF : 8542129.5/64

eigen_cor_asym_usl_mean vs Slug, Sign Corrected



Right In: 1861.525+/-409.524 χ^2/NDF : 5.3/15

Left Out: 1756.575+/-311.809 χ^2/NDF :12.9/15

Right Out: 2050.842+/-409.249 χ^2/NDF : 12.5/17

Left In: 1627.987+/-315.059 χ^2/NDF :15.8/14

Left: 1692.948+/-221.622 χ^2/NDF : 28.8/30

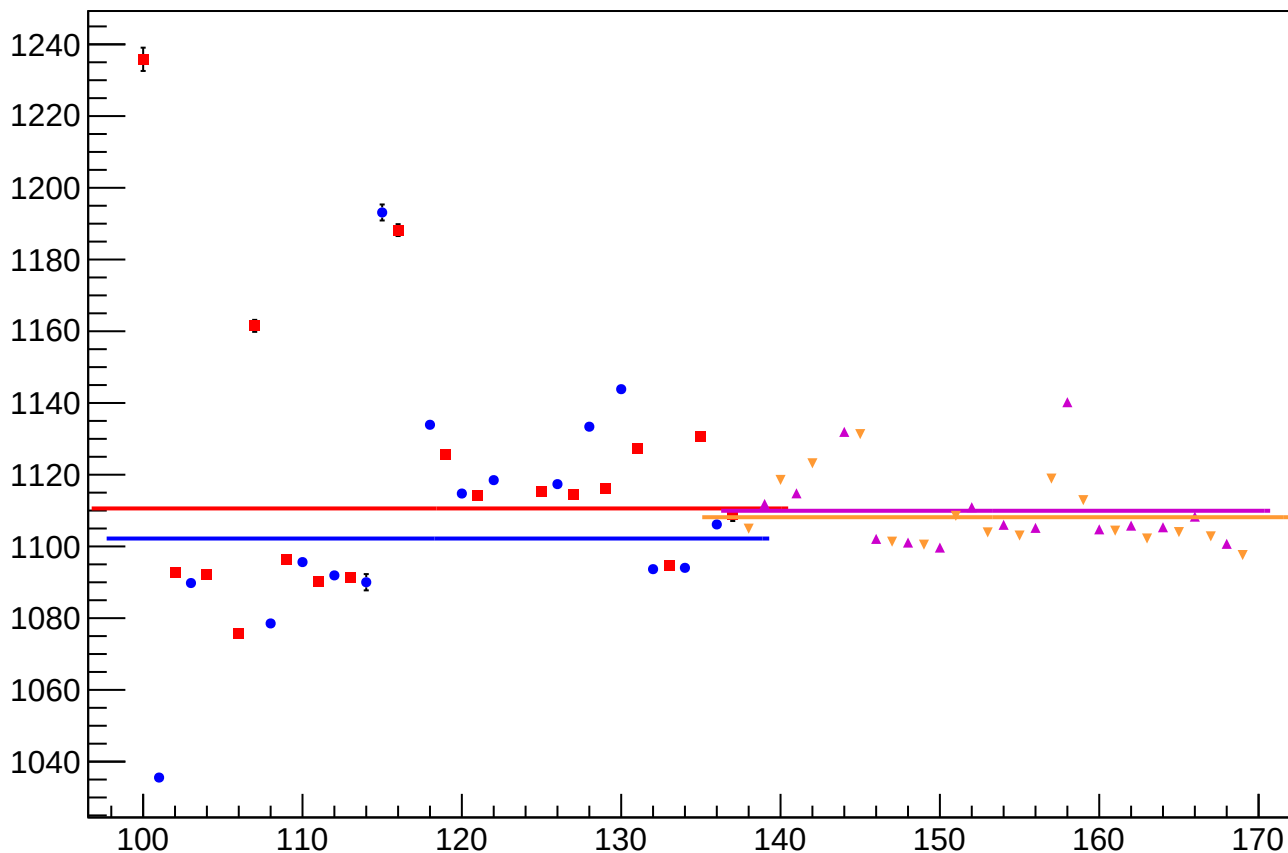
Right: 1956.247+/-289.480 χ^2/NDF : 18.0/33

In: 1714.818+/-249.711 χ^2/NDF :21.3/30

Out: 1864.656+/-248.023 χ^2/NDF :25.8/33

All: 1790.246+/-175.973 χ^2/NDF : 47.3/64

eigen_cor_asym_usl_rms vs Slug, Sign Corrected



Right In: 1102.205 $\pm$ 0.290 χ^2 /NDF: 11348.9/15

Left Out: 1108.148 $\pm$ 0.220 χ^2 /NDF:1661.3/15

Right Out: 1110.592 $\pm$ 0.289 χ^2 /NDF: 7696.0/17

Left In: 1109.944 $\pm$ 0.223 χ^2 /NDF:2577.8/14

Left: 1109.037 $\pm$ 0.157 χ^2 /NDF: 4271.9/30

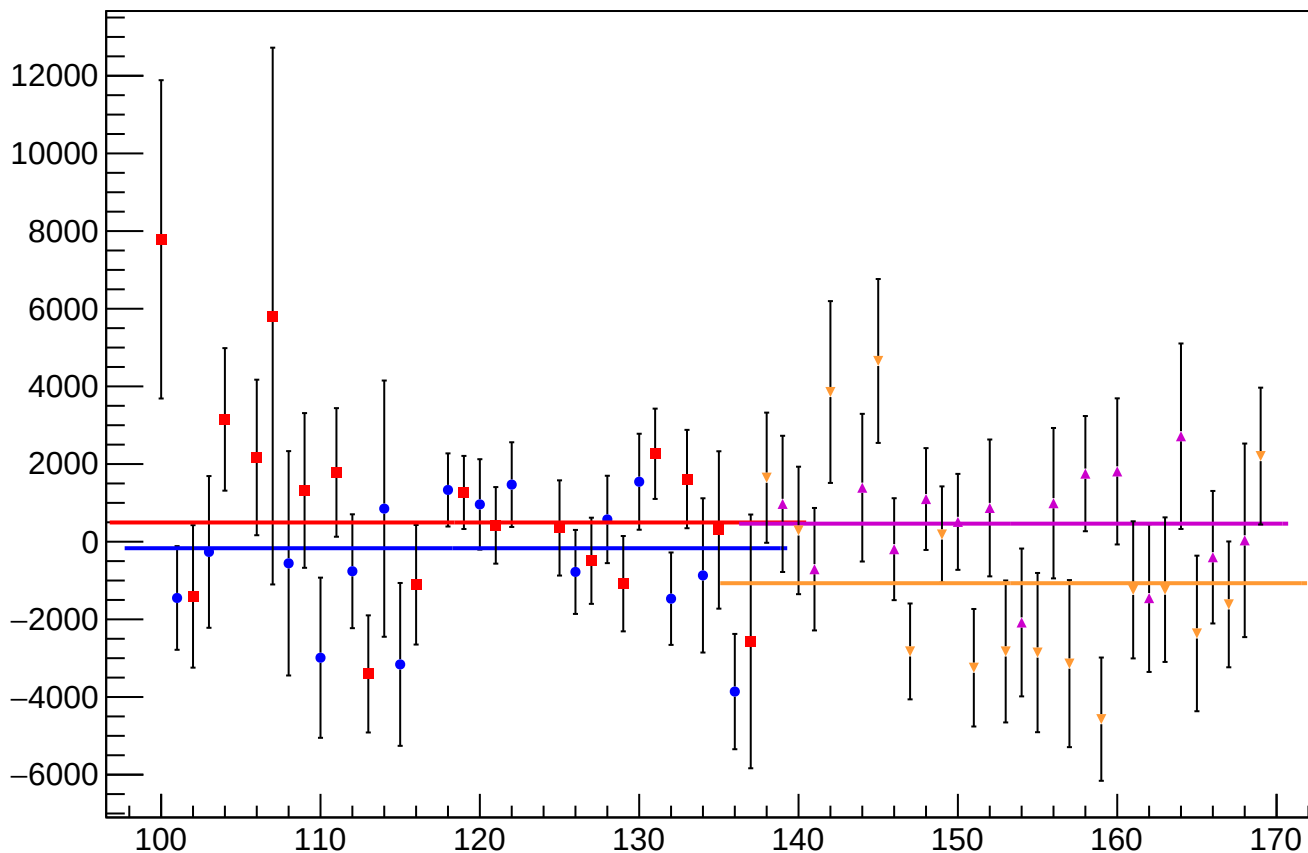
Right: 1106.401 $\pm$ 0.205 χ^2 /NDF: 19464.6/33

In: 1107.067 $\pm$ 0.177 χ^2 /NDF:14375.4/30

Out: 1109.046 $\pm$ 0.175 χ^2 /NDF:9402.4/33

All: 1108.063 $\pm$ 0.124 χ^2 /NDF: 23841.0/64

asym_usl_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -167.891 ± 345.441 χ^2/NDF : 21.0/15

Left Out: -1068.715 ± 422.984 χ^2/NDF : 31.7/15

Right Out: 495.172 ± 345.054 χ^2/NDF : 23.3/17

Left In: 464.865 ± 431.230 χ^2/NDF : 6.7/14

Left: -316.729 ± 301.968 χ^2/NDF : 44.9/30

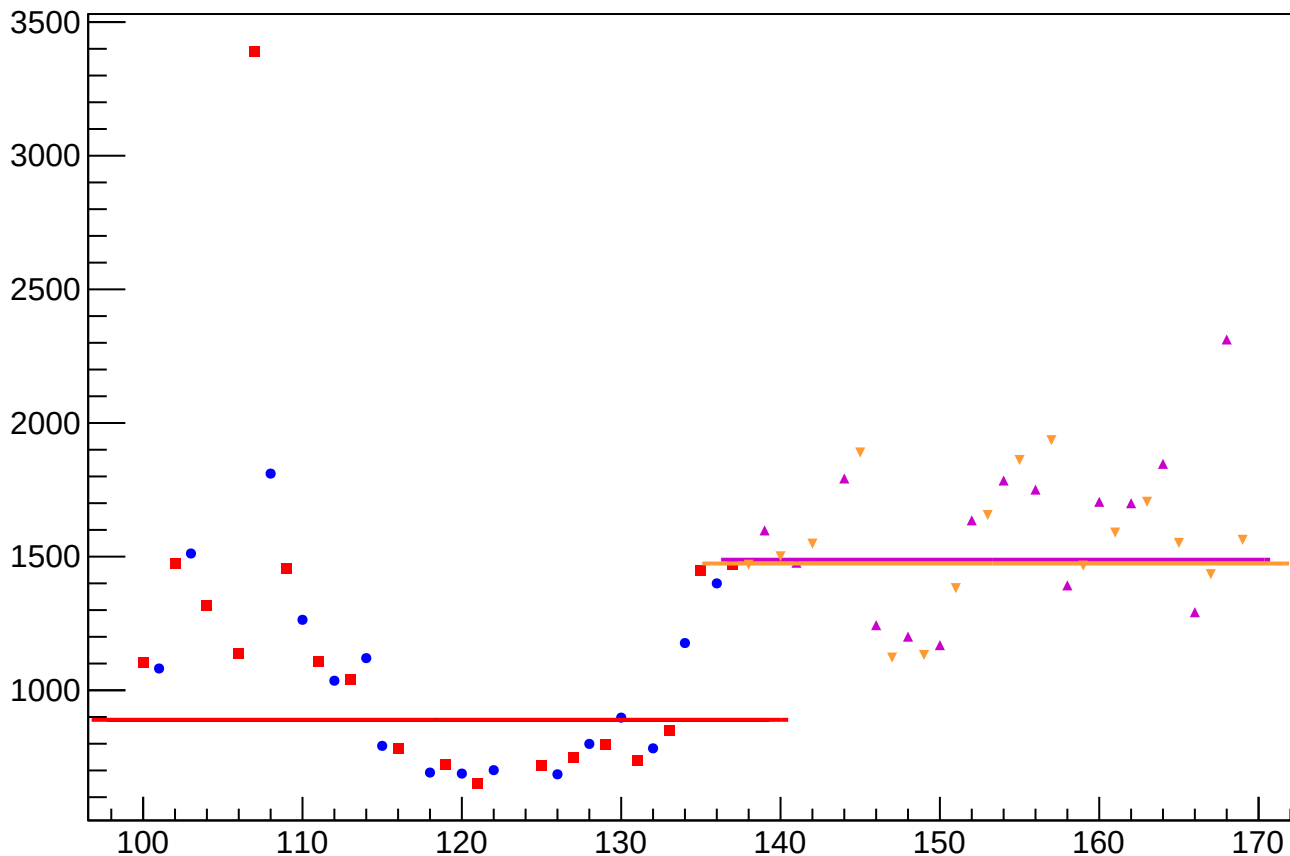
Right: 164.012 ± 244.127 χ^2/NDF : 46.1/33

In: 79.437 ± 269.605 χ^2/NDF : 29.1/30

Out: -129.708 ± 267.374 χ^2/NDF : 63.2/33

All: -26.004 ± 189.846 χ^2/NDF : 92.5/64

asym_usl_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 888.956+/-0.244 χ^2/NDF : 1132766.3/15

Left Out: 1474.275+/-0.299 χ^2/NDF : 634290.1/15

Right Out: 889.478+/-0.244 χ^2/NDF : 1345750.2/17

Left In: 1488.461+/-0.305 χ^2/NDF : 807707.7/14

Left: 1481.231+/-0.214 χ^2/NDF : 1443100.9/30

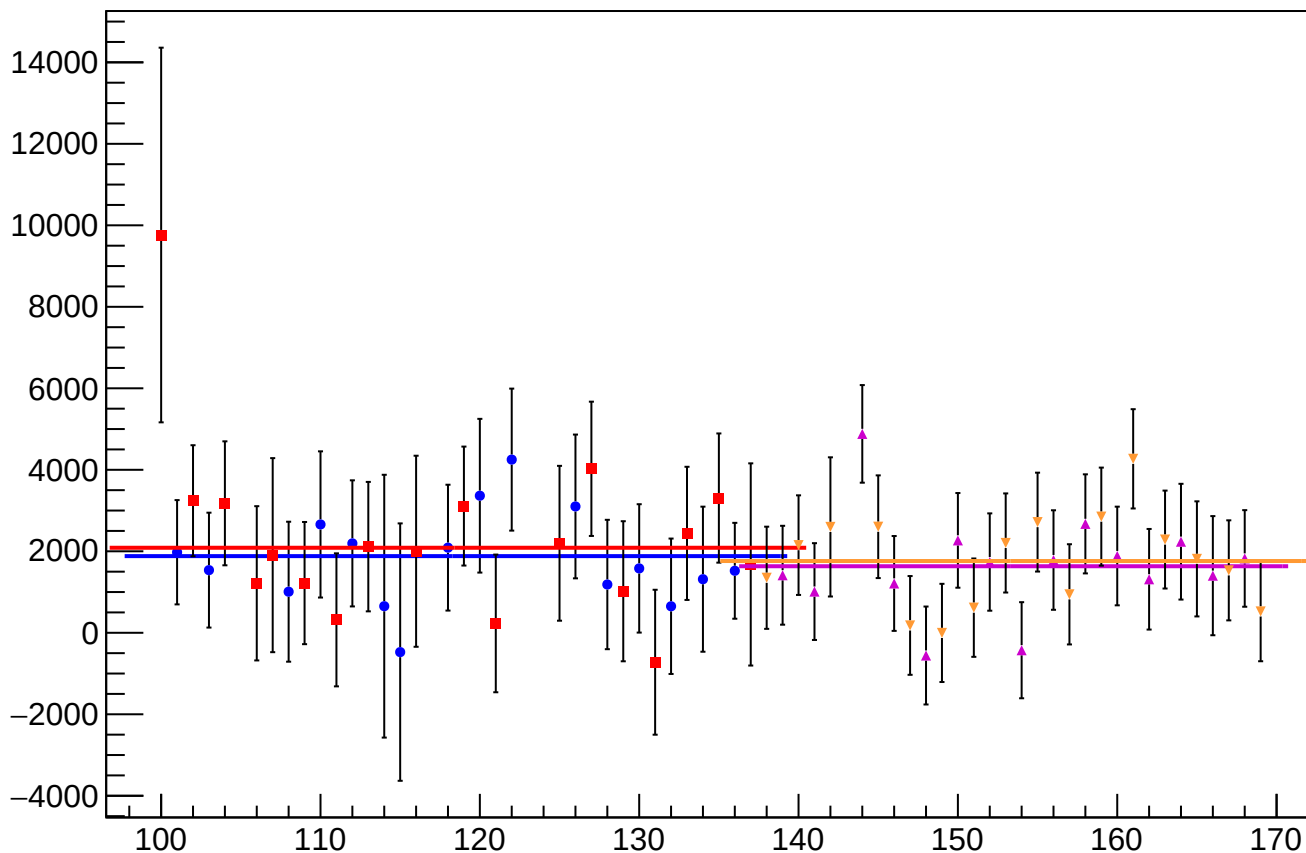
Right: 889.217+/-0.173 χ^2/NDF : 2478518.8/33

In: 1123.287+/-0.191 χ^2/NDF : 4295008.0/30

Out: 1123.144+/-0.189 χ^2/NDF : 4275432.4/33

All: 1123.215+/-0.134 χ^2/NDF : 8570440.6/64

dit_asym_usl_mean vs Slug, Sign Corrected



Right In: 1881.524 $\pm$ 410.700 χ^2 /NDF: 5.2/15

Left Out: 1761.192 $\pm$ 312.465 χ^2 /NDF:13.1/15

Right Out: 2086.886 $\pm$ 410.785 χ^2 /NDF: 12.4/17

Left In: 1633.052 $\pm$ 315.631 χ^2 /NDF:15.6/14

Left: 1697.768 $\pm$ 222.057 χ^2 /NDF: 28.8/30

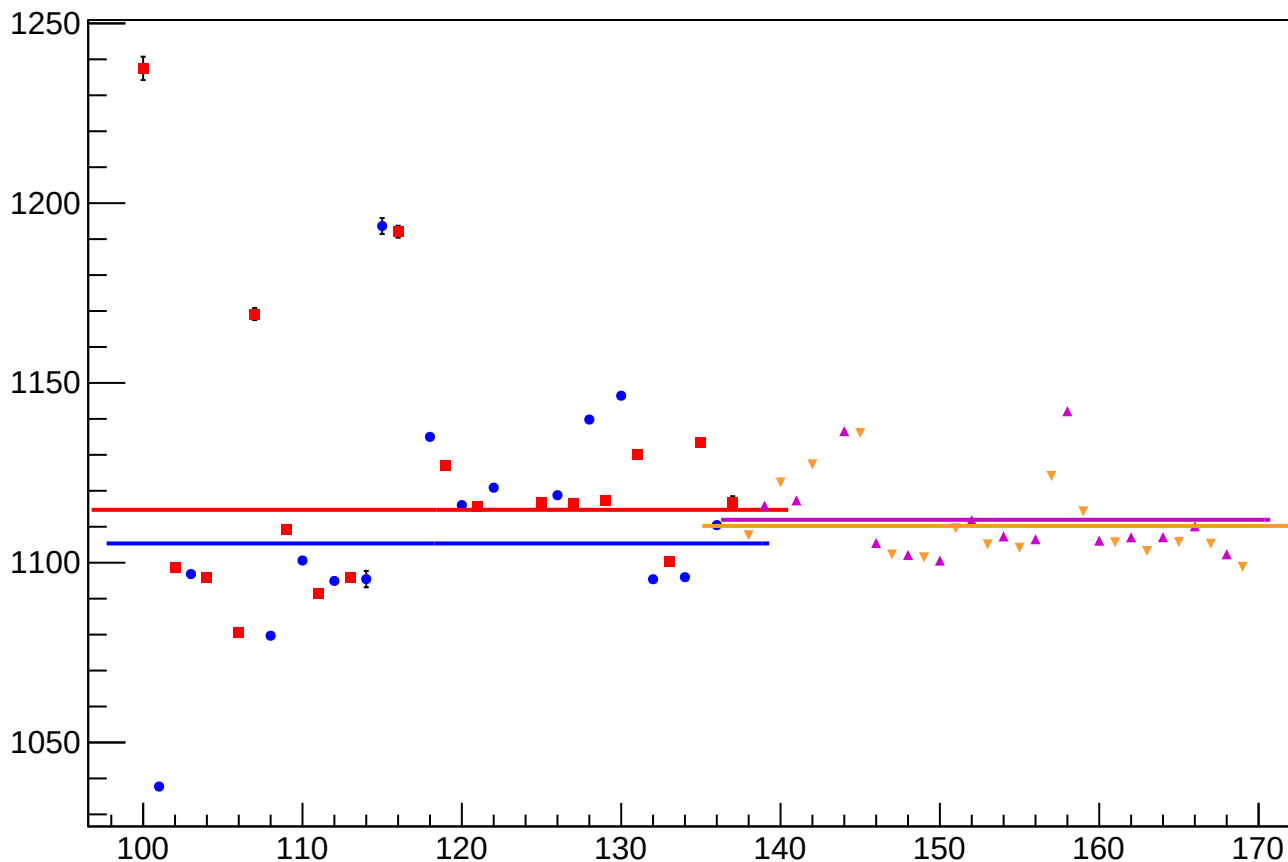
Right: 1984.184 $\pm$ 290.439 χ^2 /NDF: 17.7/33

In: 1725.313 $\pm$ 250.263 χ^2 /NDF:21.0/30

Out: 1880.567 $\pm$ 248.695 χ^2 /NDF:25.9/33

All: 1803.428 $\pm$ 176.405 χ^2 /NDF: 47.1/64

dit_asym_usl_rms vs Slug, Sign Corrected



Right In: 1105.355 $\pm$ 0.290 χ^2/NDF : 11330.9/15

Left Out: 1110.219 $\pm$ 0.221 χ^2/NDF : 2121.8/15

Right Out: 1114.705 $\pm$ 0.290 χ^2/NDF : 7330.3/17

Left In: 1111.931 $\pm$ 0.223 χ^2/NDF : 2831.6/14

Left: 1111.067 $\pm$ 0.157 χ^2/NDF : 4983.1/30

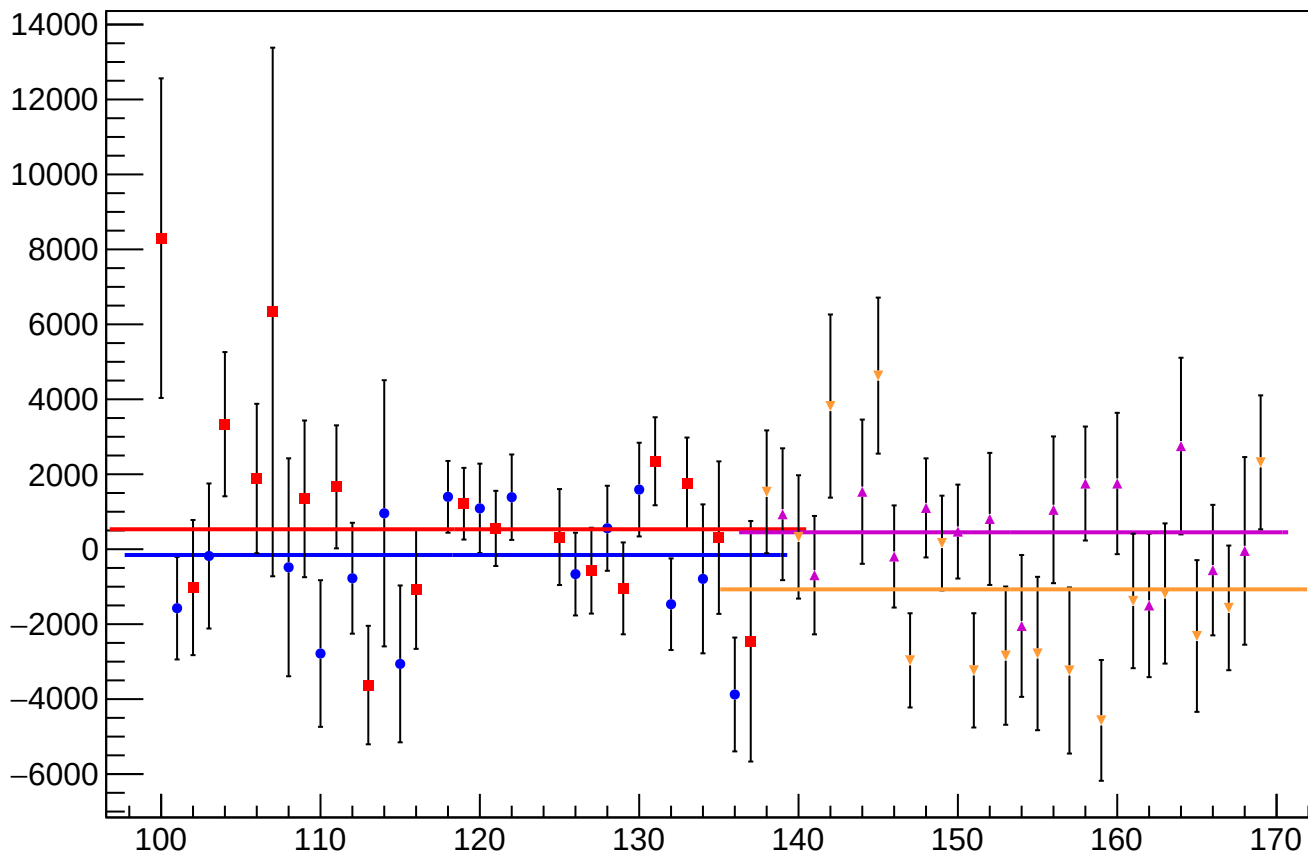
Right: 1110.029 $\pm$ 0.205 χ^2/NDF : 19179.4/33

In: 1109.489 $\pm$ 0.177 χ^2/NDF : 14484.9/30

Out: 1111.863 $\pm$ 0.176 χ^2/NDF : 9603.1/33

All: 1110.684 $\pm$ 0.125 χ^2/NDF : 24178.6/64

asym_usl_dit_correction_mean vs Slug, Sign Corrected



Right In: -153.999 ± 351.318 χ^2/NDF : 20.5/15

Left Out: -1071.116 ± 427.764 χ^2/NDF : 31.4/15

Right Out: 532.155 ± 350.407 χ^2/NDF : 23.2/17

Left In: 451.353 ± 436.008 χ^2/NDF : 6.8/14

Left: -324.412 ± 305.348 χ^2/NDF : 44.4/30

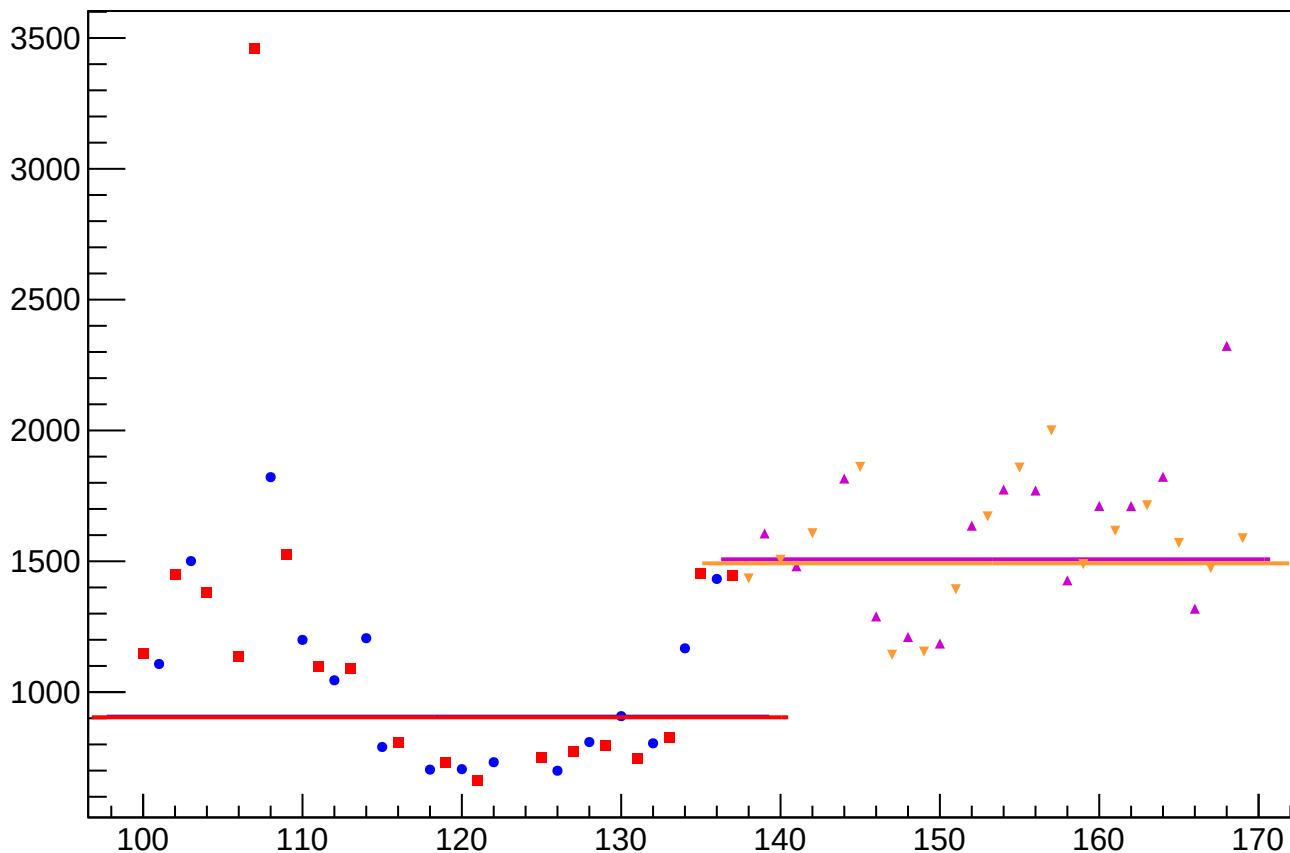
Right: 189.968 ± 248.097 χ^2/NDF : 45.6/33

In: 84.306 ± 273.563 χ^2/NDF : 28.5/30

Out: -111.662 ± 271.070 χ^2/NDF : 63.0/33

All: -14.575 ± 192.551 χ^2/NDF : 91.7/64

asym_usl_dit_correction_rms vs Slug, Sign Corrected



Right In: 906.036 $\pm$ 0.248 χ^2 /NDF: 1079435.1/15

Left Out: 1492.093 $\pm$ 0.302 χ^2 /NDF: 609926.2/15

Right Out: 903.753 $\pm$ 0.248 χ^2 /NDF: 1339982.2/17

Left In: 1507.542 $\pm$ 0.308 χ^2 /NDF: 752392.4/14

Left: 1499.670 $\pm$ 0.216 χ^2 /NDF: 1363598.2/30

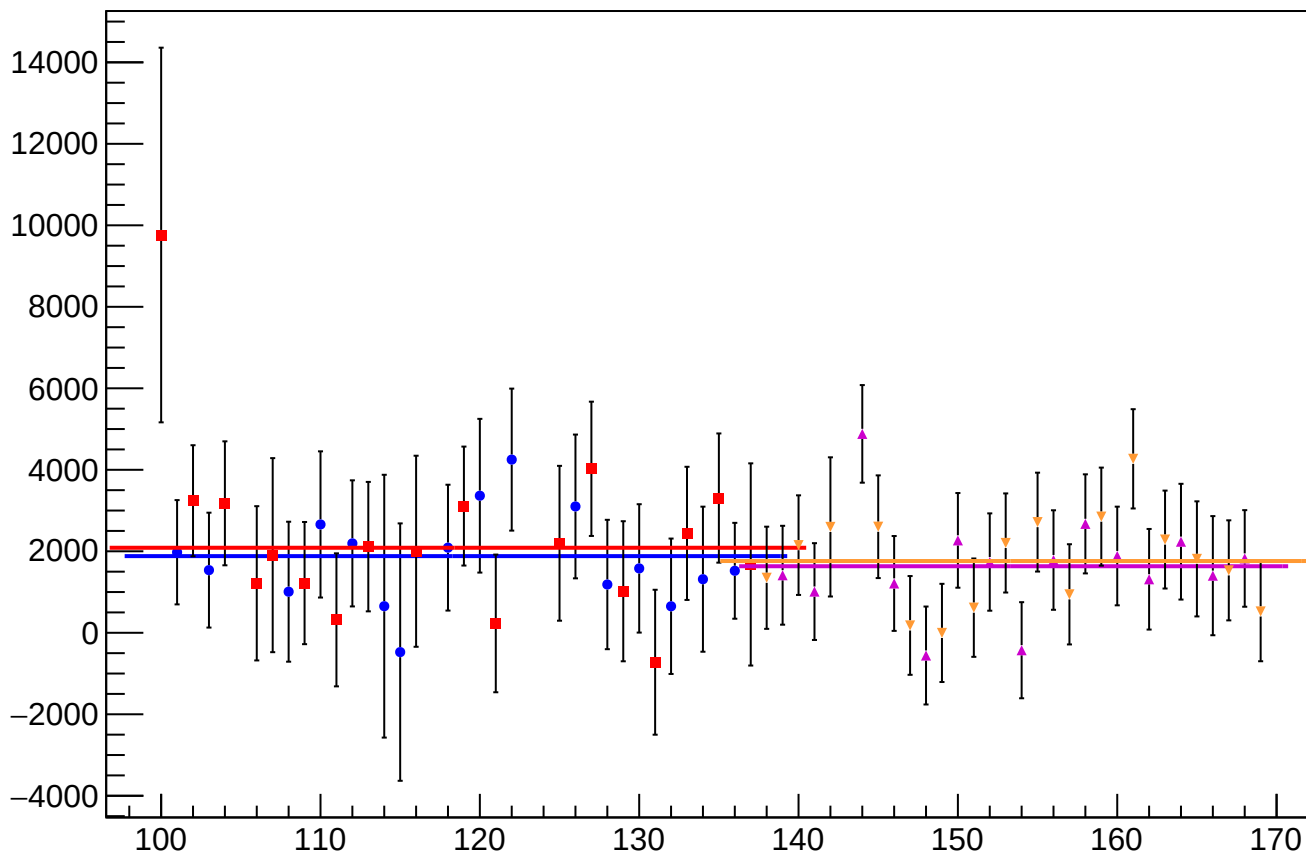
Right: 904.892 $\pm$ 0.175 χ^2 /NDF: 2419459.6/33

In: 1142.826 $\pm$ 0.193 χ^2 /NDF: 4139822.6/30

Out: 1140.009 $\pm$ 0.192 χ^2 /NDF: 4214007.2/33

All: 1141.405 $\pm$ 0.136 χ^2 /NDF: 8353936.8/64

eigen_dit_asym_usl_mean vs Slug, Sign Corrected



Right In: 1881.523 $\pm$ 410.700 χ^2/NDF : 5.2/15

Left Out: 1761.187 $\pm$ 312.465 χ^2/NDF : 13.1/15

Right Out: 2086.884 $\pm$ 410.785 χ^2/NDF : 12.4/17

Left In: 1633.054 $\pm$ 315.631 χ^2/NDF : 15.6/14

Left: 1697.766 $\pm$ 222.057 χ^2/NDF : 28.8/30

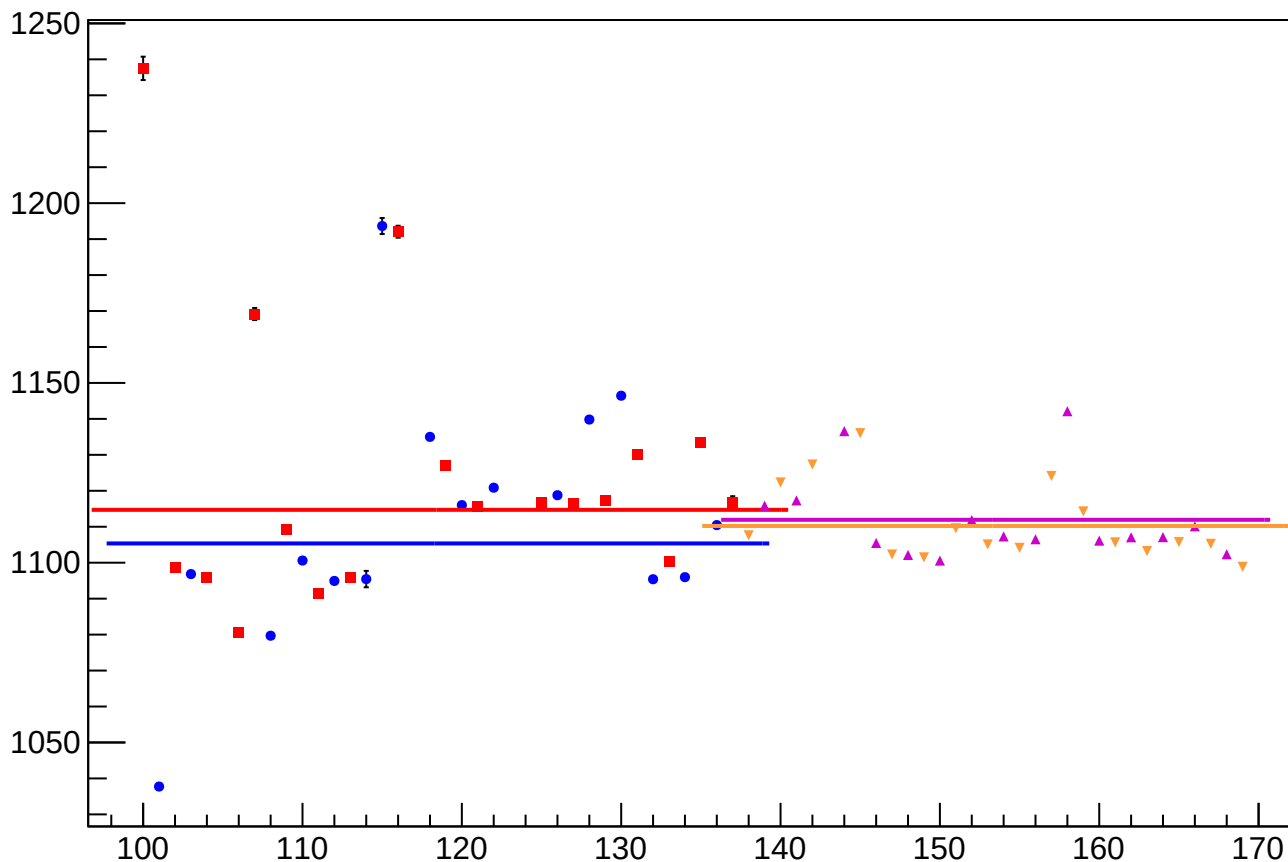
Right: 1984.182 $\pm$ 290.439 χ^2/NDF : 17.7/33

In: 1725.314 $\pm$ 250.263 χ^2/NDF : 21.0/30

Out: 1880.563 $\pm$ 248.695 χ^2/NDF : 25.9/33

All: 1803.427 $\pm$ 176.405 χ^2/NDF : 47.1/64

eigen_dit_asym_usl_rms vs Slug, Sign Corrected



Right In: 1105.355 $\pm$ 0.290 χ^2/NDF : 11330.9/15

Left Out: 1110.219 $\pm$ 0.221 χ^2/NDF : 2121.8/15

Right Out: 1114.705 $\pm$ 0.290 χ^2/NDF : 7330.2/17

Left In: 1111.931 $\pm$ 0.223 χ^2/NDF : 2831.6/14

Left: 1111.067 $\pm$ 0.157 χ^2/NDF : 4983.1/30

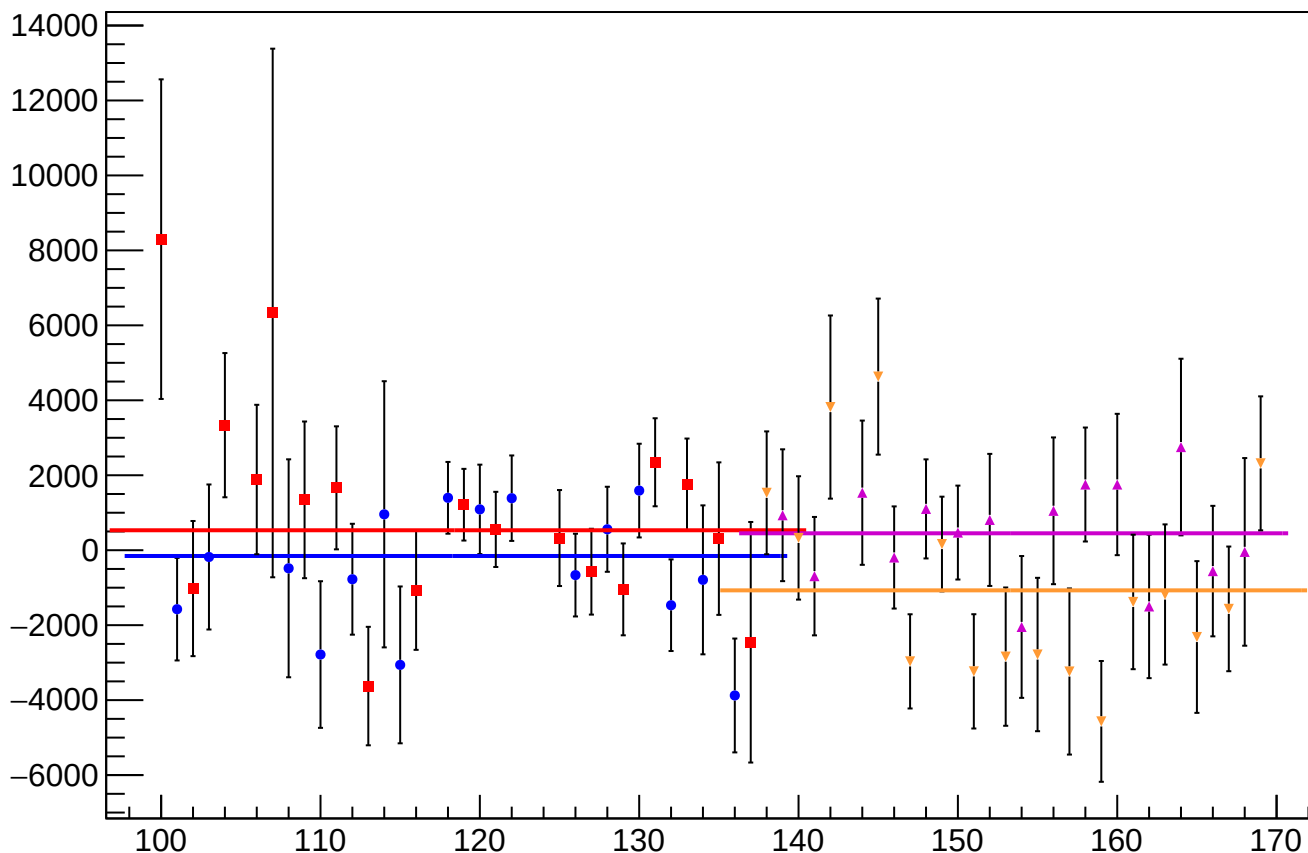
Right: 1110.029 $\pm$ 0.205 χ^2/NDF : 19179.3/33

In: 1109.489 $\pm$ 0.177 χ^2/NDF : 14484.9/30

Out: 1111.863 $\pm$ 0.176 χ^2/NDF : 9603.1/33

All: 1110.684 $\pm$ 0.125 χ^2/NDF : 24178.5/64

asym_usl_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -153.998 $\pm$ 351.317 χ^2/NDF : 20.5/15

Left Out: -1071.121 $\pm$ 427.764 χ^2/NDF : 31.4/15

Right Out: 532.154 $\pm$ 350.406 χ^2/NDF : 23.2/17

Left In: 451.355 $\pm$ 436.009 χ^2/NDF : 6.8/14

Left: -324.413 $\pm$ 305.348 χ^2/NDF : 44.4/30

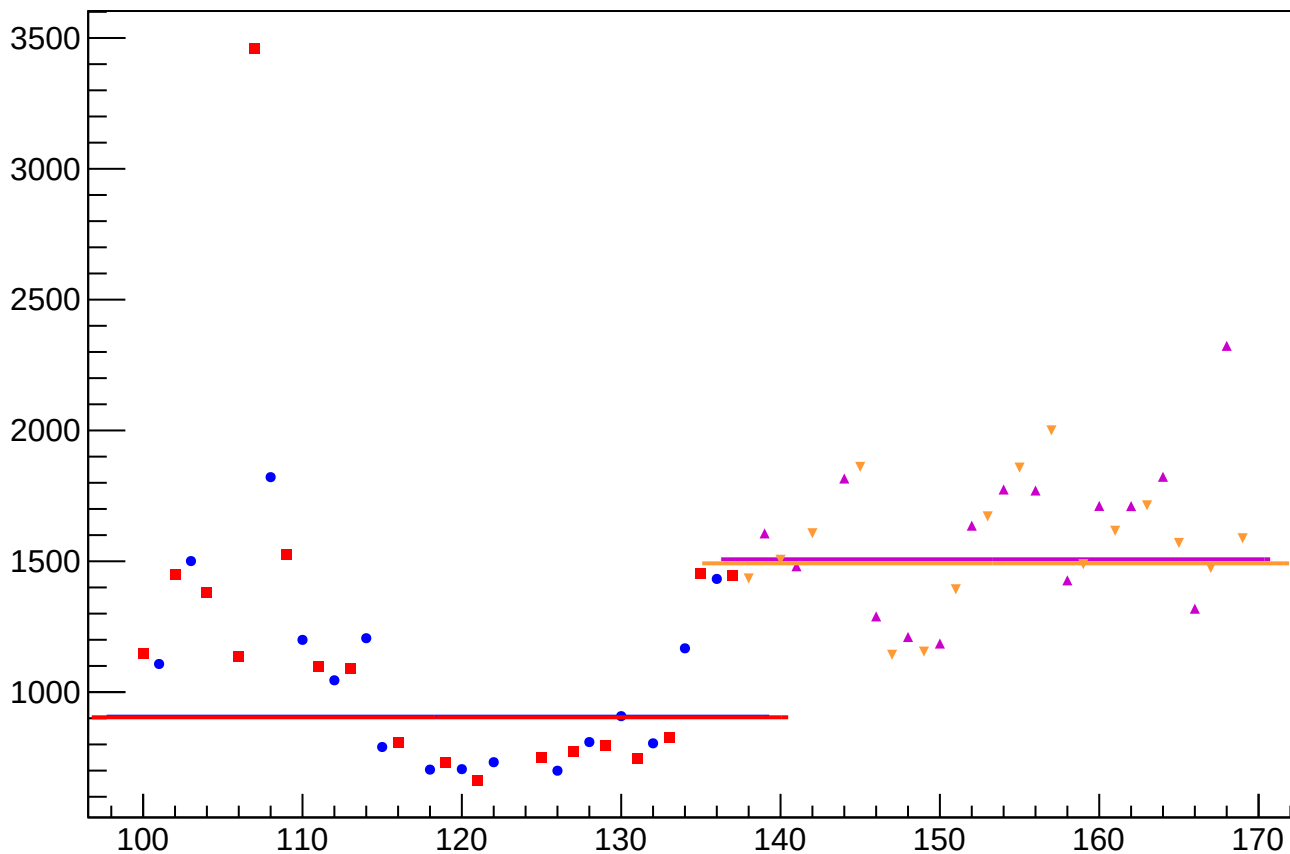
Right: 189.969 $\pm$ 248.096 χ^2/NDF : 45.6/33

In: 84.306 $\pm$ 273.563 χ^2/NDF : 28.5/30

Out: -111.661 $\pm$ 271.070 χ^2/NDF : 63.0/33

All: -14.574 $\pm$ 192.551 χ^2/NDF : 91.7/64

asym_usl_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 906.034 $\pm$ 0.248 χ^2 /NDF: 1079440.1/15

Left Out: 1492.094 $\pm$ 0.302 χ^2 /NDF: 609922.6/15

Right Out: 903.751 $\pm$ 0.248 χ^2 /NDF: 1339985.4/17

Left In: 1507.544 $\pm$ 0.308 χ^2 /NDF: 752388.0/14

Left: 1499.672 $\pm$ 0.216 χ^2 /NDF: 1363590.2/30

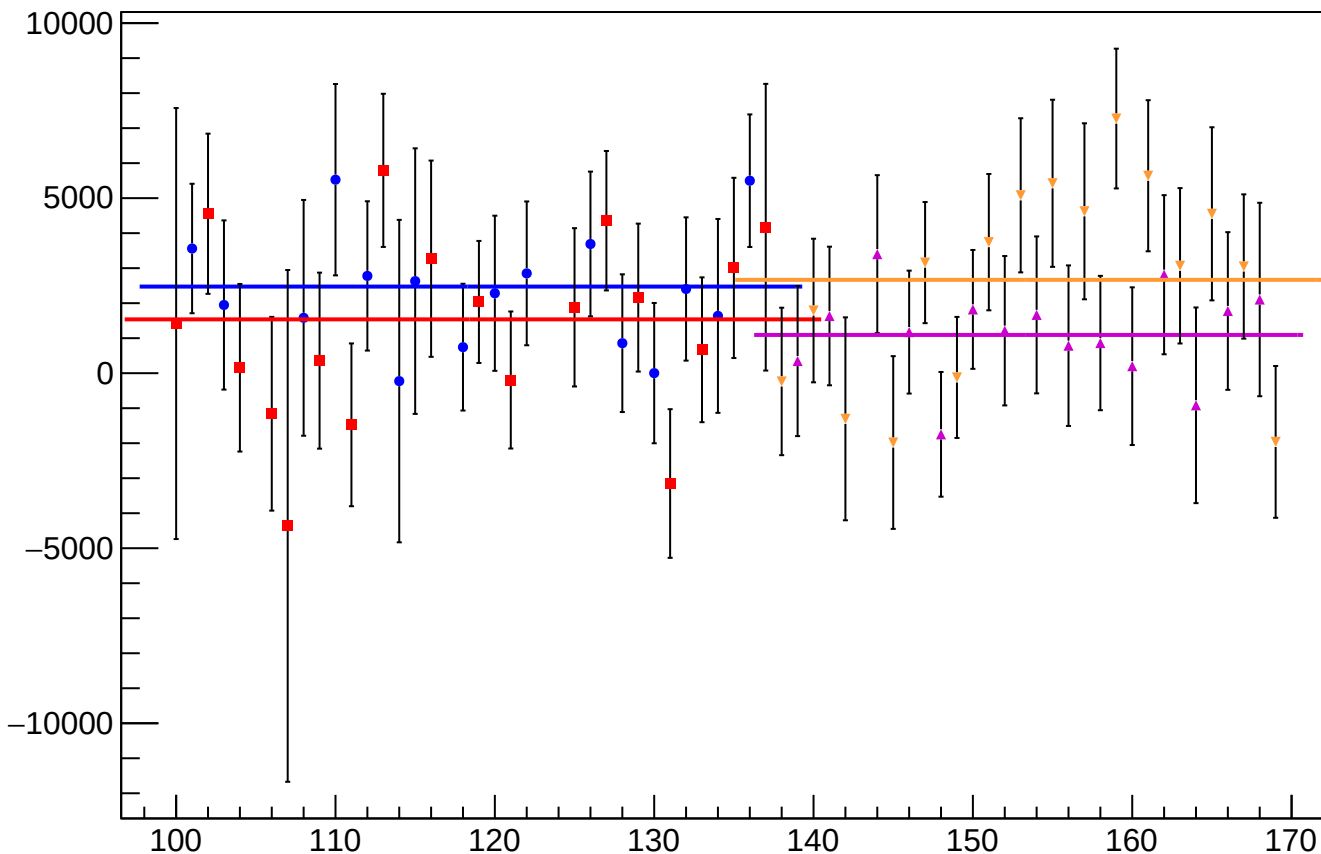
Right: 904.890 $\pm$ 0.175 χ^2 /NDF: 2419467.8/33

In: 1142.825 $\pm$ 0.193 χ^2 /NDF: 4139852.8/30

Out: 1140.008 $\pm$ 0.192 χ^2 /NDF: 4214037.8/33

All: 1141.404 $\pm$ 0.136 χ^2 /NDF: 8353997.7/64

asym_usl_mean vs Slug, Sign Corrected



Right In: 2474.066 $\pm$ 562.796 χ^2 /NDF: 8.2/15

Left Out: 2666.418 $\pm$ 534.584 χ^2 /NDF:26.1/15

Right Out: 1537.435 $\pm$ 563.556 χ^2 /NDF: 18.5/17

Left In: 1092.703 $\pm$ 543.727 χ^2 /NDF:5.5/14

Left: 1892.904 $\pm$ 381.199 χ^2 /NDF: 35.9/30

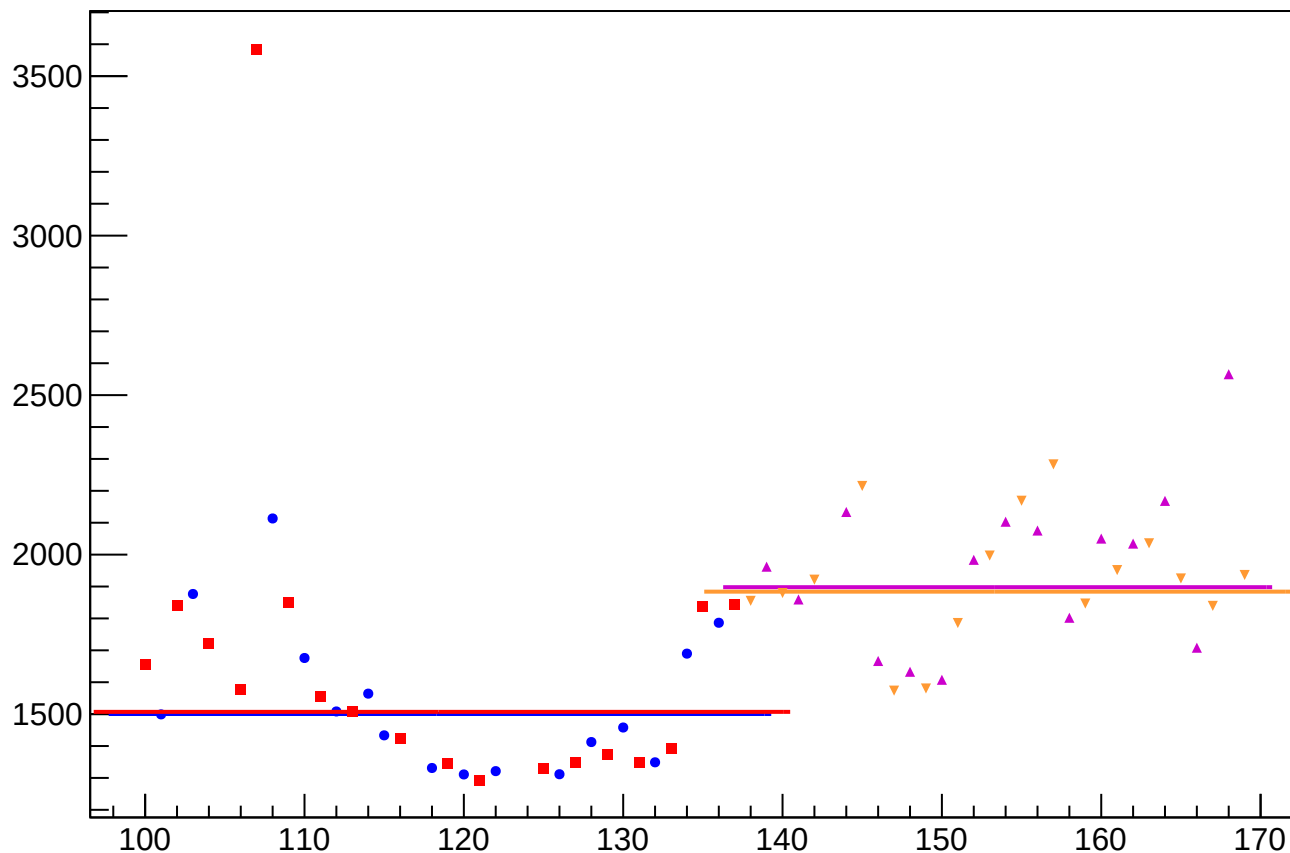
Right: 2006.383 $\pm$ 398.225 χ^2 /NDF: 28.1/33

In: 1759.586 $\pm$ 391.041 χ^2 /NDF:16.9/30

Out: 2131.692 $\pm$ 387.846 χ^2 /NDF:46.7/33

All: 1947.166 $\pm$ 275.371 χ^2 /NDF: 64.0/64

asym_usl_rms vs Slug, Sign Corrected



Right In: 1500.377+/-0.398 χ^2/NDF : 258792.8/15

Left Out: 1883.949+/-0.378 χ^2/NDF : 266701.2/15

Right Out: 1507.098+/-0.398 χ^2/NDF : 401227.7/17

Left In: 1897.913+/-0.384 χ^2/NDF : 364889.4/14

Left: 1890.812+/-0.270 χ^2/NDF : 632261.3/30

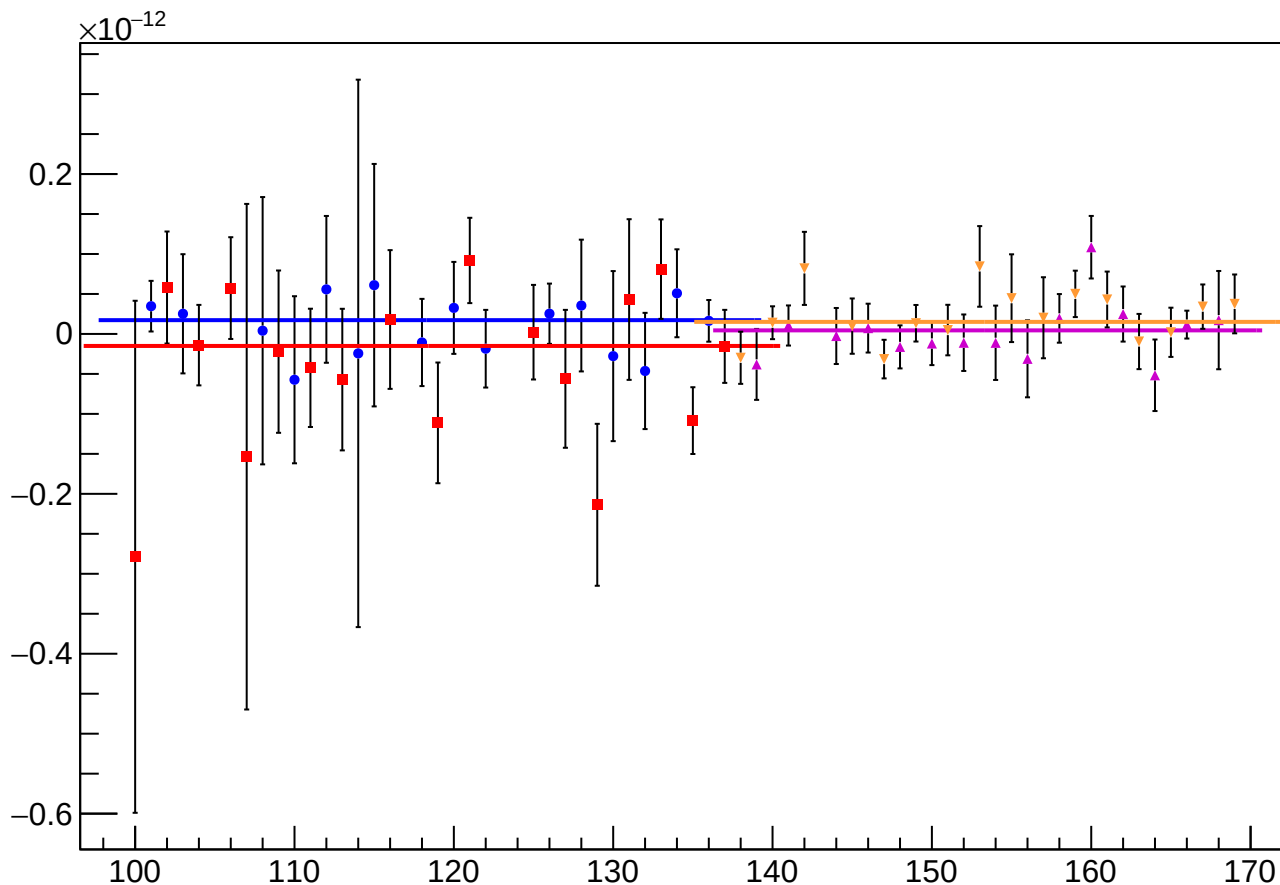
Right: 1503.733+/-0.282 χ^2/NDF : 660162.8/33

In: 1705.994+/-0.277 χ^2/NDF : 1139816.0/30

Out: 1705.459+/-0.274 χ^2/NDF : 1138668.9/33

All: 1705.724+/-0.195 χ^2/NDF : 2278486.8/64

asym_usl_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 3.4/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 13.7/15

Right Out: -0.000 ± 0.000 χ^2/NDF : 21.3/17

Left In: 0.000 ± 0.000 χ^2/NDF : 12.3/14

Left: 0.000 ± 0.000 χ^2/NDF : 26.9/30

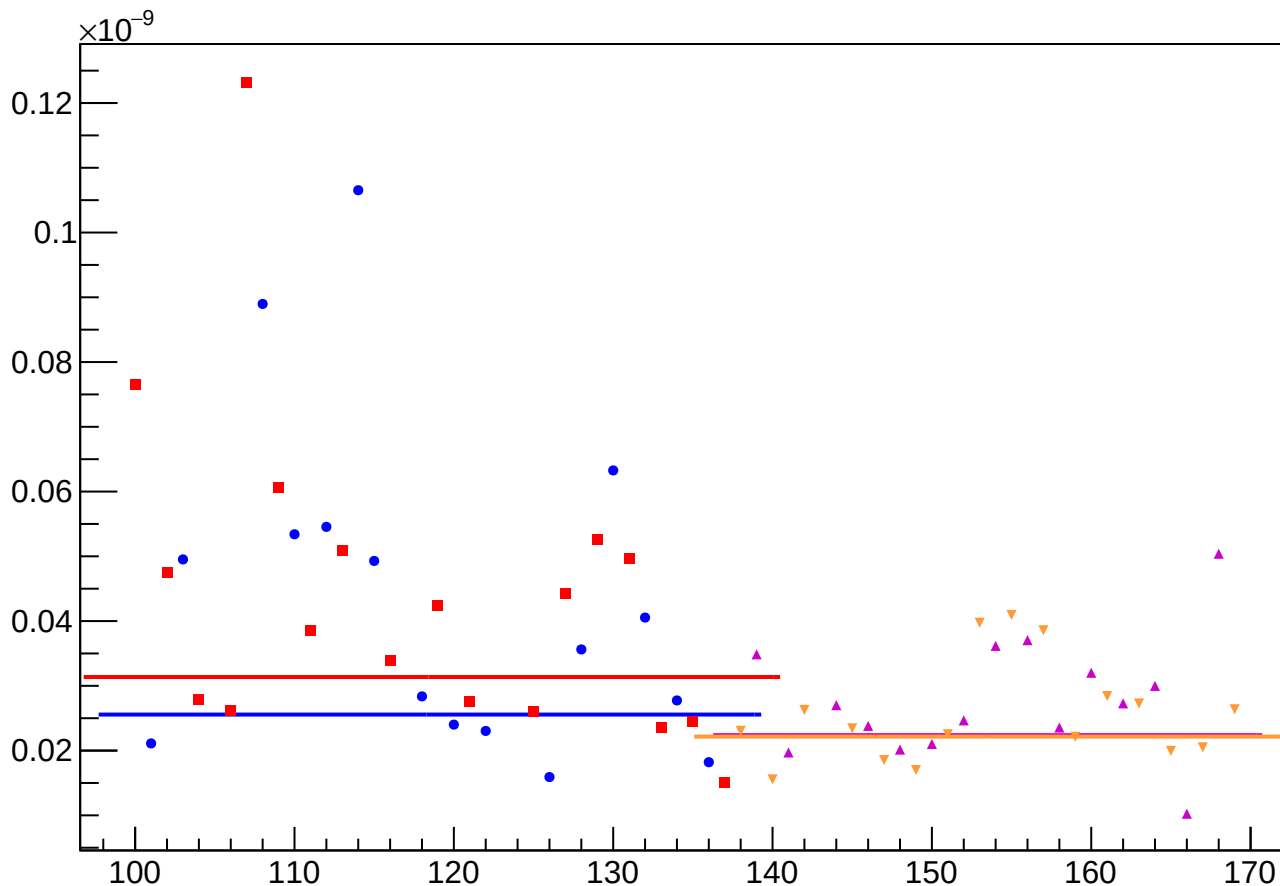
Right: 0.000 ± 0.000 χ^2/NDF : 27.0/33

In: 0.000 ± 0.000 χ^2/NDF : 16.3/30

Out: 0.000 ± 0.000 χ^2/NDF : 37.8/33

All: 0.000 ± 0.000 χ^2/NDF : 54.2/64

asym_usl_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1707801.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1213751.8/15

Right Out: 0.000+/-0.000 χ^2/NDF : 1228078.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 2215977.5/14

Left: 0.000+/-0.000 χ^2/NDF : 3430507.3/30

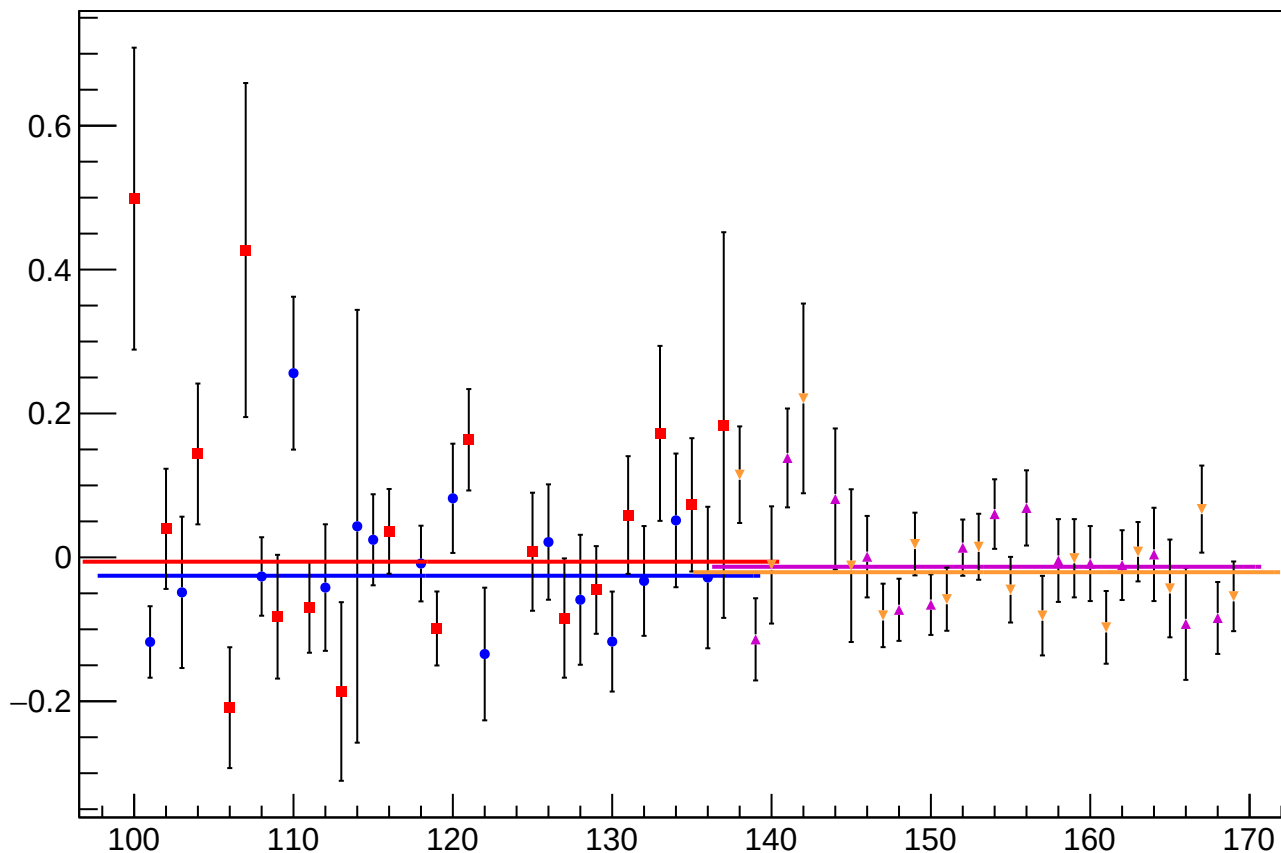
Right: 0.000+/-0.000 χ^2/NDF : 3088169.6/33

In: 0.000+/-0.000 χ^2/NDF : 4004832.8/30

Out: 0.000+/-0.000 χ^2/NDF : 2970436.9/33

All: 0.000+/-0.000 χ^2/NDF : 6984997.6/64

asym_usl_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.026 ± 0.019 χ^2/NDF : 17.6/15

Left Out: -0.021 ± 0.013 χ^2/NDF : 18.5/15

Right Out: -0.006 ± 0.019 χ^2/NDF : 36.5/17

Left In: -0.013 ± 0.014 χ^2/NDF : 20.8/14

Left: -0.017 ± 0.010 χ^2/NDF : 39.5/30

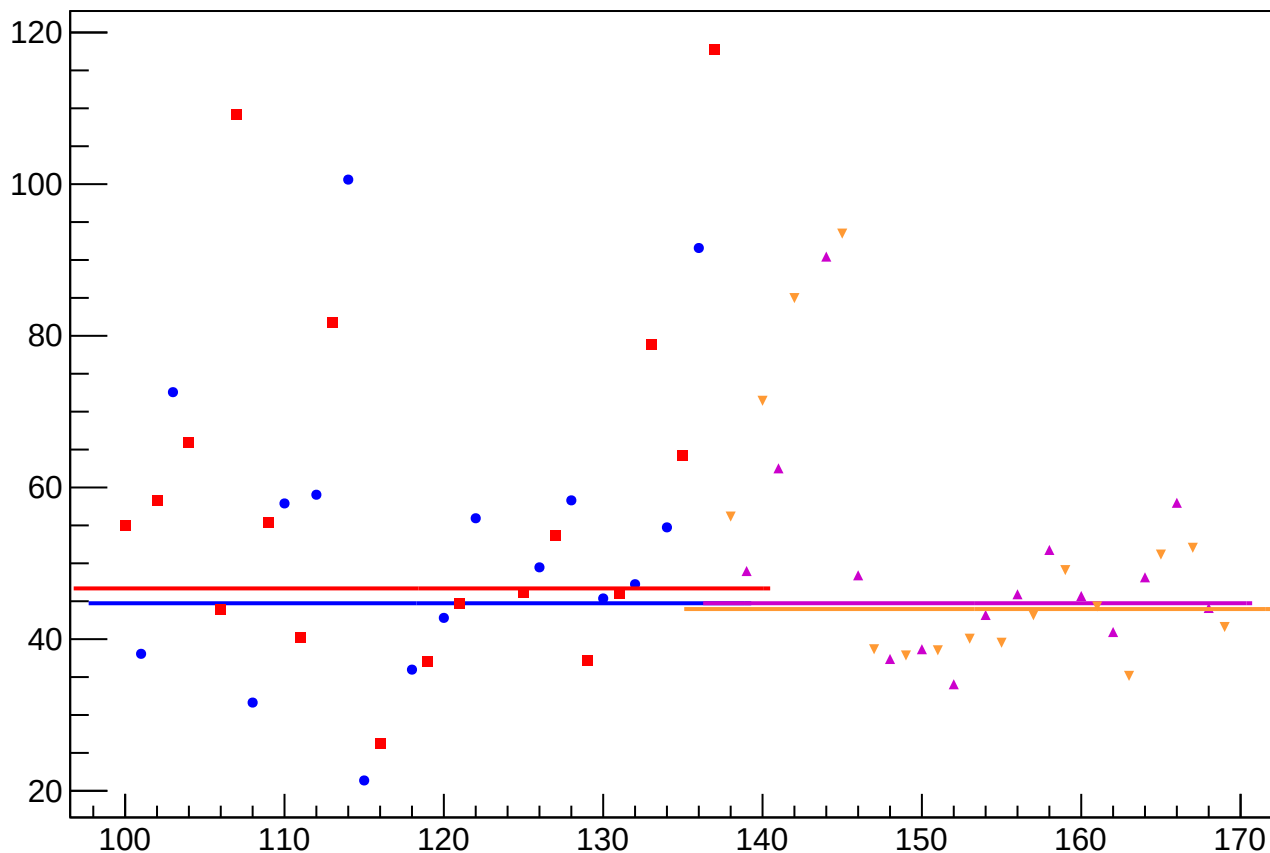
Right: -0.016 ± 0.013 χ^2/NDF : 54.7/33

In: -0.017 ± 0.011 χ^2/NDF : 38.7/30

Out: -0.016 ± 0.011 χ^2/NDF : 55.4/33

All: -0.017 ± 0.008 χ^2/NDF : 94.2/64

asym_usl_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 44.733 $\pm$ 0.013 χ^2/NDF : 1334541.9/15

Left Out: 43.969 $\pm$ 0.009 χ^2/NDF : 1226671.6/15

Right Out: 46.691 $\pm$ 0.014 χ^2/NDF : 1195464.6/17

Left In: 44.738 $\pm$ 0.010 χ^2/NDF : 947397.7/14

Left: 44.346 $\pm$ 0.007 χ^2/NDF : 2177308.3/30

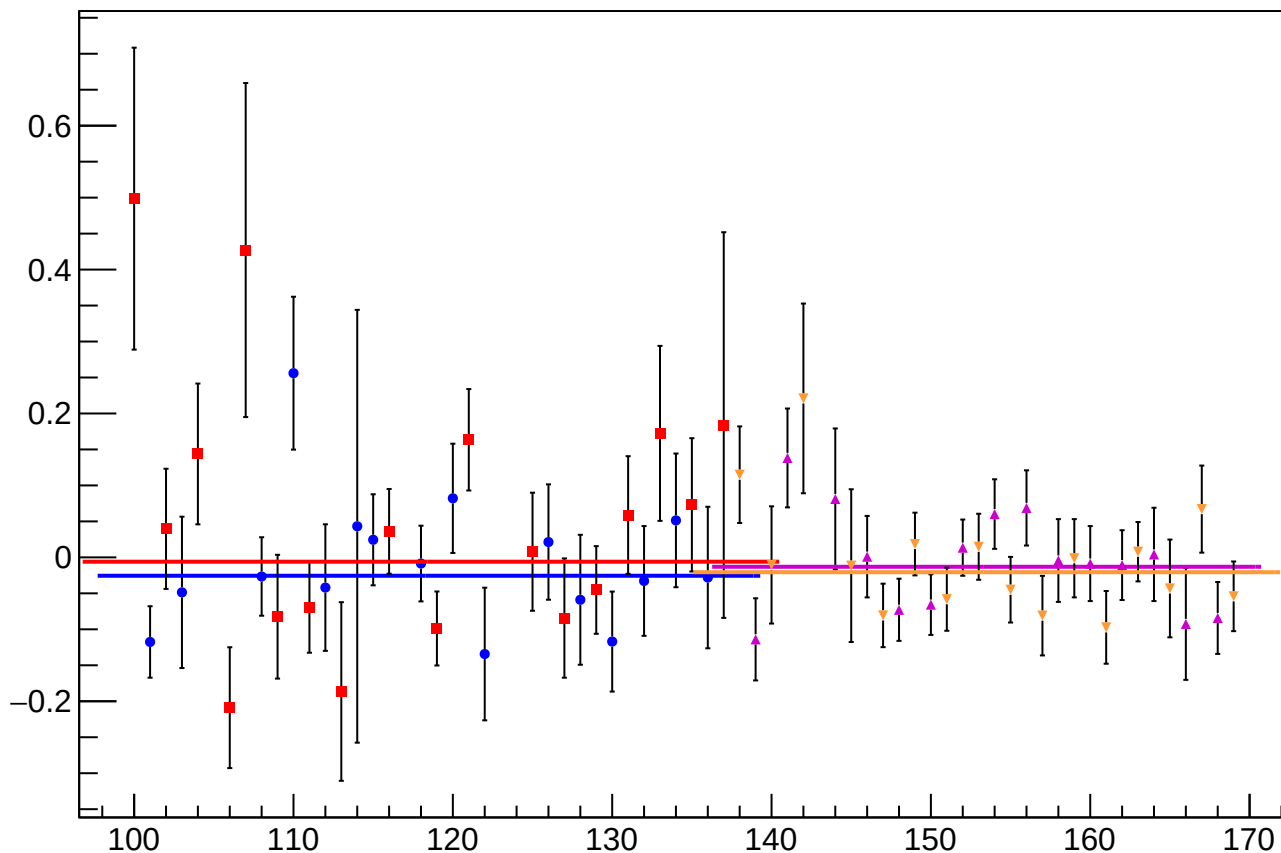
Right: 45.680 $\pm$ 0.010 χ^2/NDF : 2540529.3/33

In: 44.736 $\pm$ 0.008 χ^2/NDF : 2281939.7/30

Out: 44.846 $\pm$ 0.008 χ^2/NDF : 2448827.8/33

All: 44.791 $\pm$ 0.006 χ^2/NDF : 4730867.2/64

asym_usl_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.026 ± 0.019 χ^2/NDF : 17.6/15

Left Out: -0.021 ± 0.013 χ^2/NDF : 18.5/15

Right Out: -0.006 ± 0.019 χ^2/NDF : 36.5/17

Left In: -0.013 ± 0.014 χ^2/NDF : 20.8/14

Left: -0.017 ± 0.010 χ^2/NDF : 39.5/30

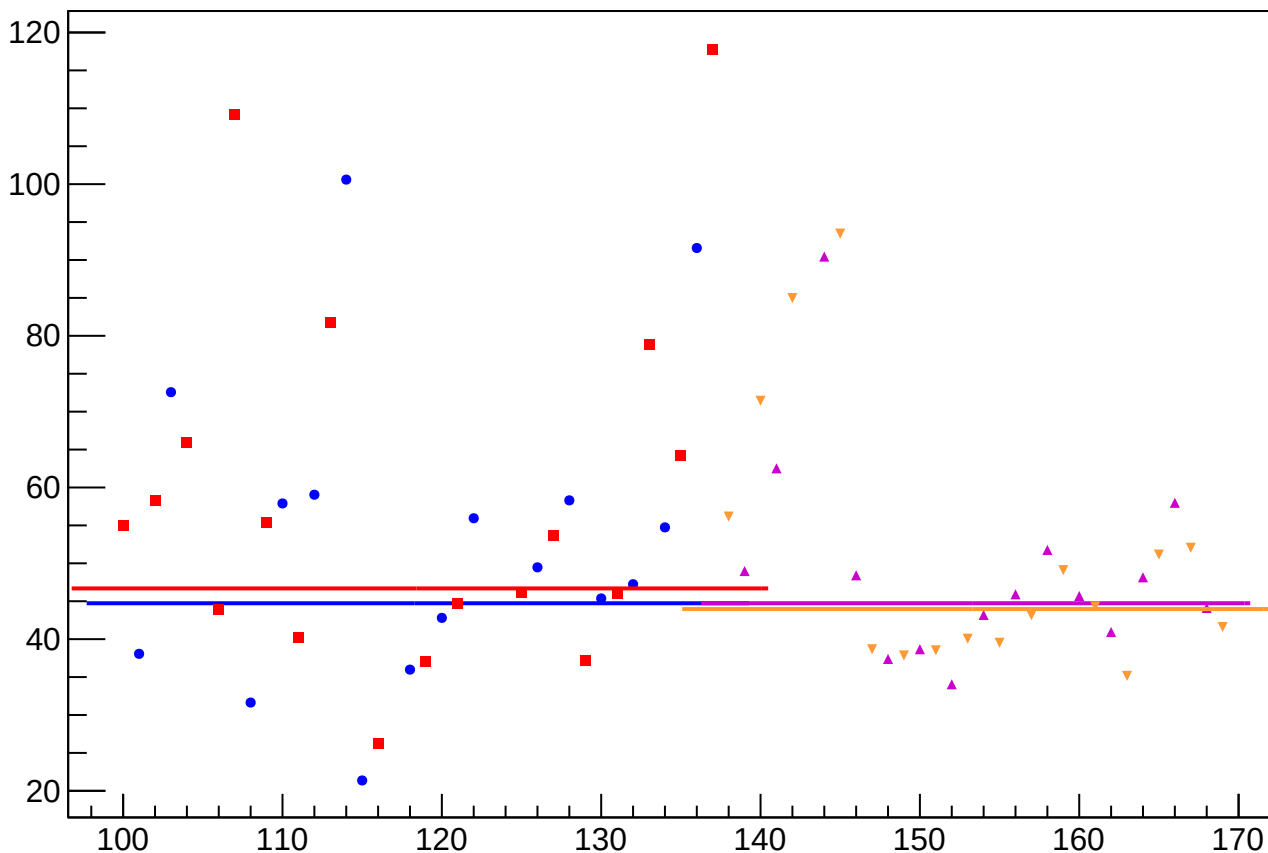
Right: -0.016 ± 0.013 χ^2/NDF : 54.7/33

In: -0.017 ± 0.011 χ^2/NDF : 38.7/30

Out: -0.016 ± 0.011 χ^2/NDF : 55.4/33

All: -0.017 ± 0.008 χ^2/NDF : 94.2/64

asym_usl_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 44.733+/-0.013 χ^2/NDF : 1334541.9/15

Left Out: 43.969+/-0.009 χ^2/NDF : 1226671.6/15

Right Out: 46.691+/-0.014 χ^2/NDF : 1195464.6/17

Left In: 44.738+/-0.010 χ^2/NDF : 947397.7/14

Left: 44.346+/-0.007 χ^2/NDF : 2177308.3/30

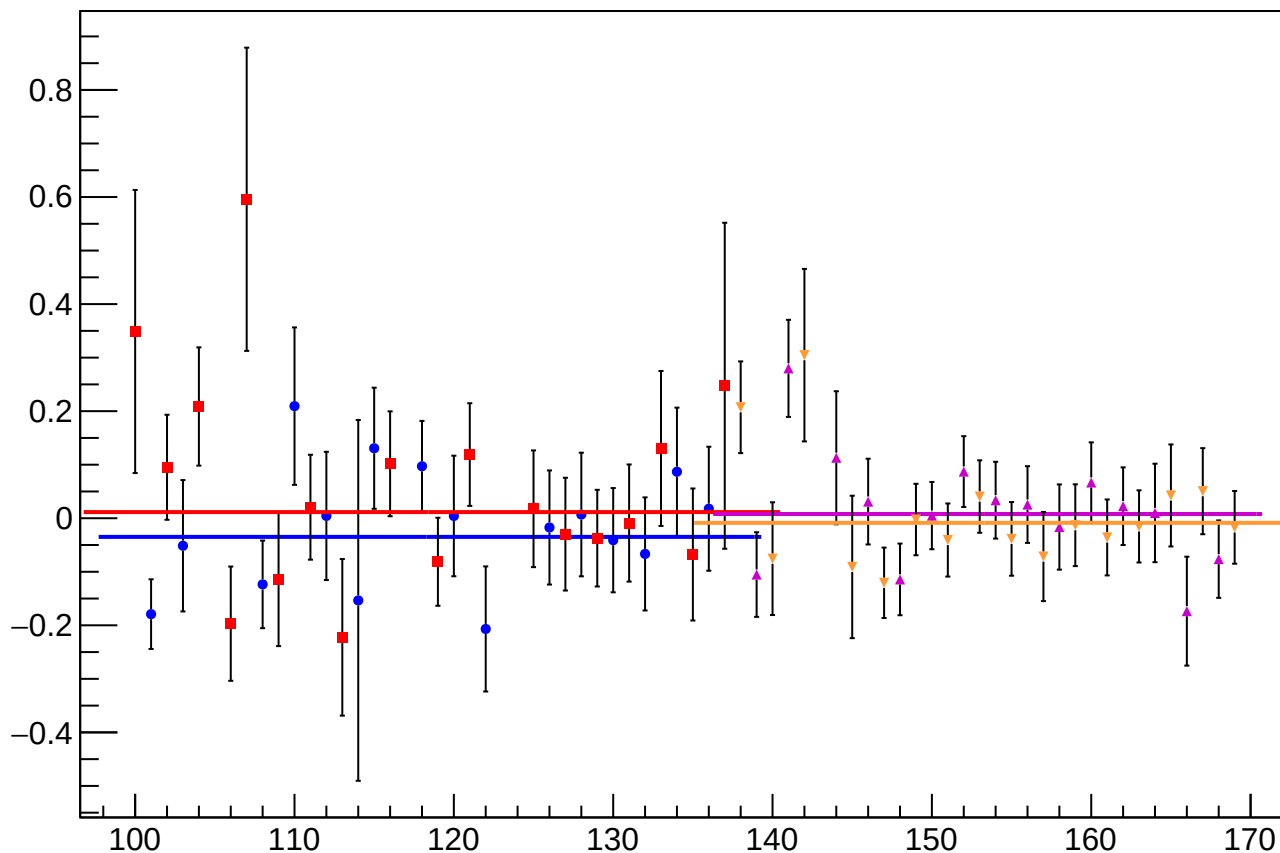
Right: 45.680+/-0.010 χ^2/NDF : 2540529.3/33

In: 44.736+/-0.008 χ^2/NDF : 2281939.7/30

Out: 44.846+/-0.008 χ^2/NDF : 2448827.8/33

All: 44.791+/-0.006 χ^2/NDF : 4730867.2/64

asym_usl_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.035 ± 0.026 $\chi^2/\text{NDF}: 17.4/15$

Left Out: -0.009 ± 0.019 $\chi^2/\text{NDF}: 16.3/15$

Right Out: 0.012 ± 0.027 $\chi^2/\text{NDF}: 22.8/17$

Left In: 0.008 ± 0.020 $\chi^2/\text{NDF}: 22.1/14$

Left: -0.001 ± 0.014 $\chi^2/\text{NDF}: 38.8/30$

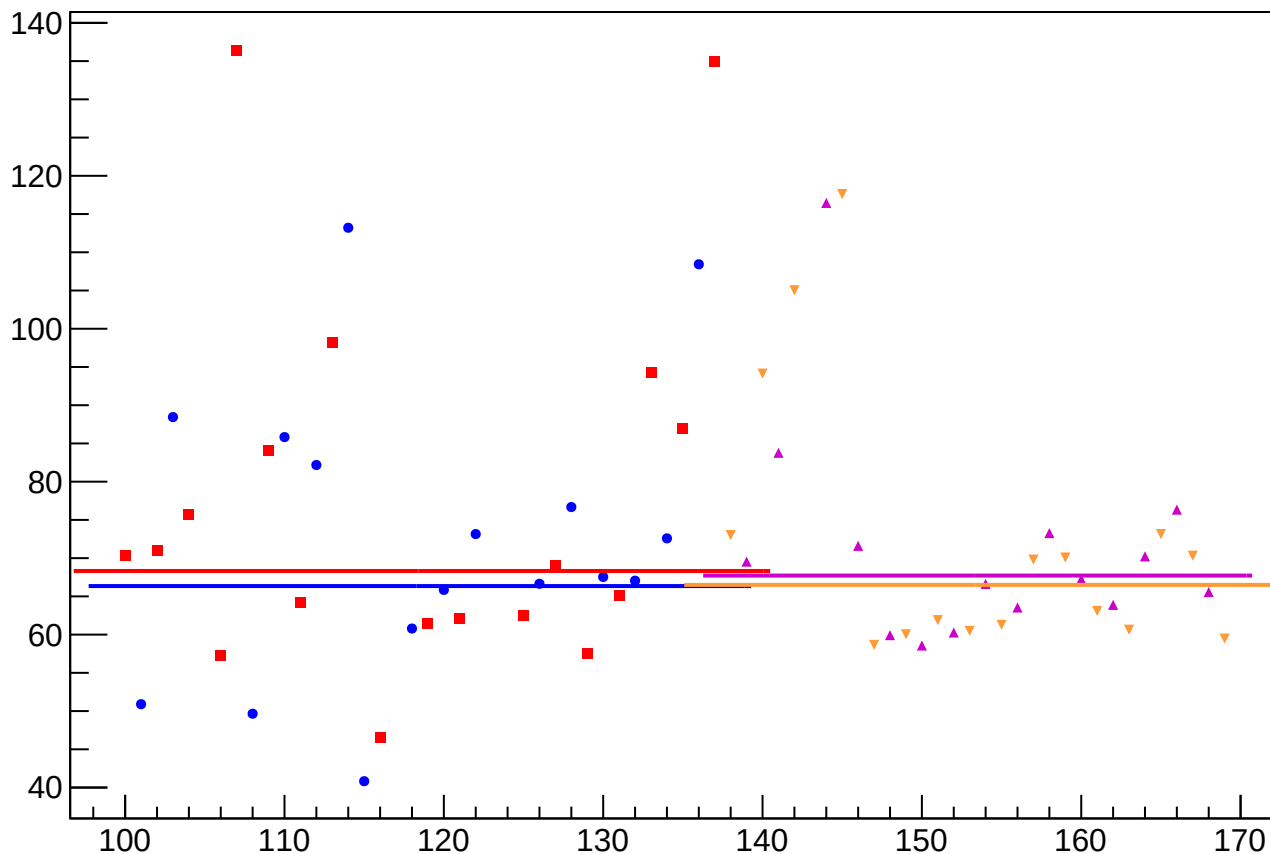
Right: -0.012 ± 0.019 $\chi^2/\text{NDF}: 41.7/33$

In: -0.008 ± 0.016 $\chi^2/\text{NDF}: 41.2/30$

Out: -0.002 ± 0.016 $\chi^2/\text{NDF}: 39.5/33$

All: -0.005 ± 0.011 $\chi^2/\text{NDF}: 80.8/64$

asym_usl_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 66.348 $\pm$ 0.019 χ^2 /NDF: 772653.3/15

Left Out: 66.501 $\pm$ 0.014 χ^2 /NDF: 705754.4/15

Right Out: 68.322 $\pm$ 0.019 χ^2 /NDF: 629670.0/17

Left In: 67.722 $\pm$ 0.014 χ^2 /NDF: 511032.1/14

Left: 67.099 $\pm$ 0.010 χ^2 /NDF: 1220636.1/30

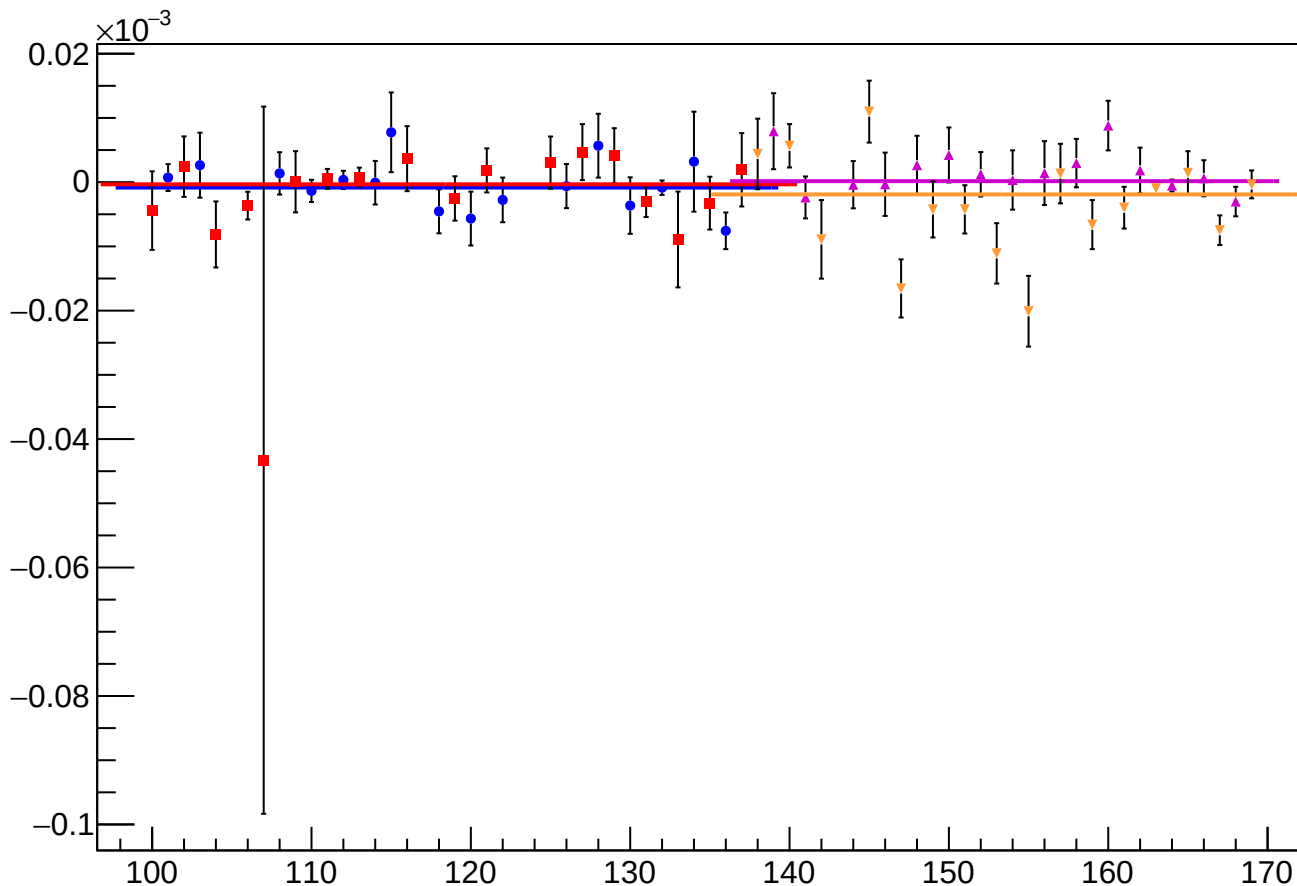
Right: 67.312 $\pm$ 0.013 χ^2 /NDF: 1407833.1/33

In: 67.222 $\pm$ 0.011 χ^2 /NDF: 1287161.8/30

Out: 67.127 $\pm$ 0.011 χ^2 /NDF: 1341437.6/33

All: 67.174 $\pm$ 0.008 χ^2 /NDF: 2628635.3/64

asym_usl_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 15.0/15

Left Out: -0.000+/-0.000 χ^2 /NDF:51.9/15

Right Out: -0.000+/-0.000 χ^2 /NDF: 14.8/17

Left In: 0.000+/-0.000 χ^2 /NDF:12.0/14

Left: -0.000+/-0.000 χ^2 /NDF: 69.1/30

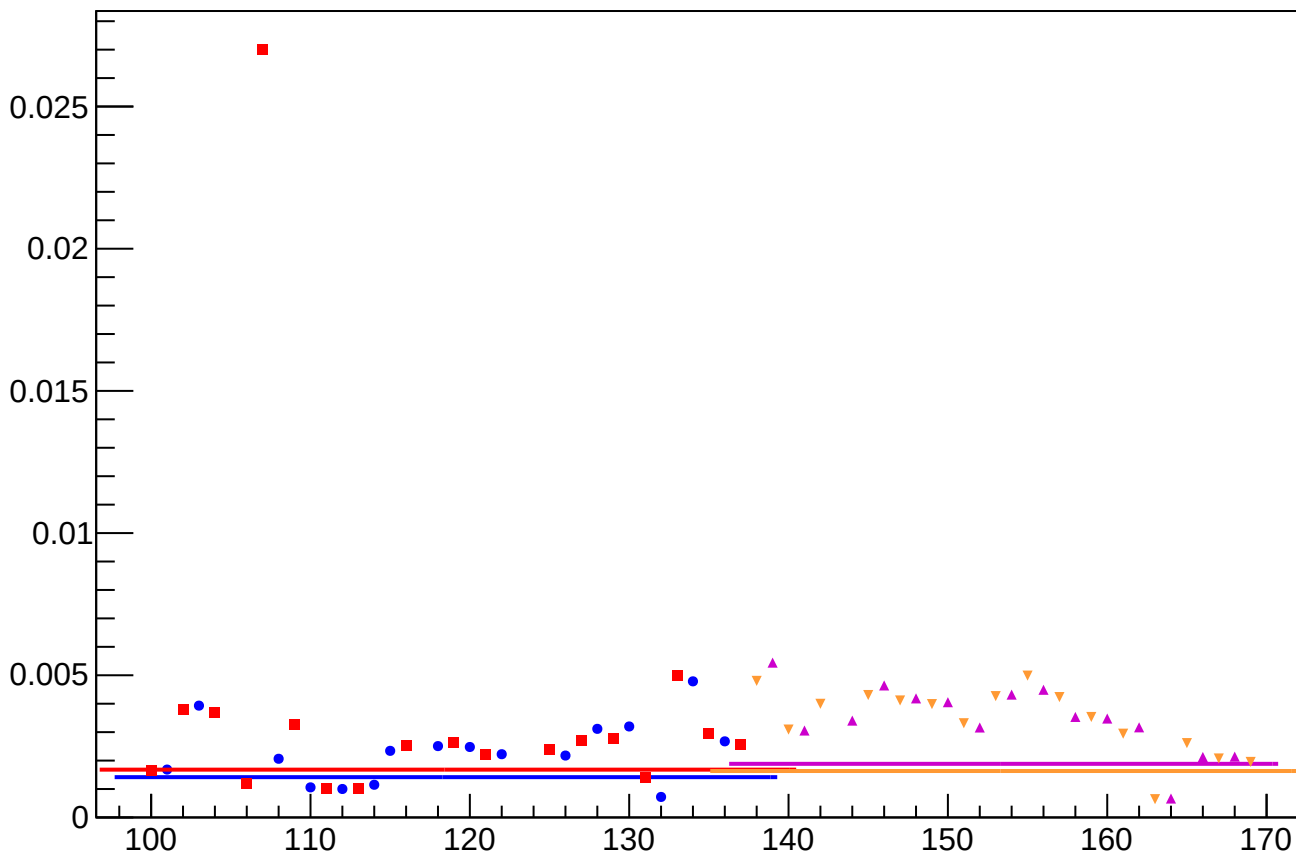
Right: -0.000+/-0.000 χ^2 /NDF: 30.1/33

In: -0.000+/-0.000 χ^2 /NDF:28.2/30

Out: -0.000+/-0.000 χ^2 /NDF:69.5/33

All: -0.000+/-0.000 χ^2 /NDF: 99.5/64

asym_usl_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 3547259.2/15

Left Out: 0.002+/-0.000 χ^2/NDF :9838150.5/15

Right Out: 0.002+/-0.000 χ^2/NDF : 3427218.5/17

Left In: 0.002+/-0.000 χ^2/NDF :8772084.1/14

Left: 0.002+/-0.000 χ^2/NDF : 18766355.6/30

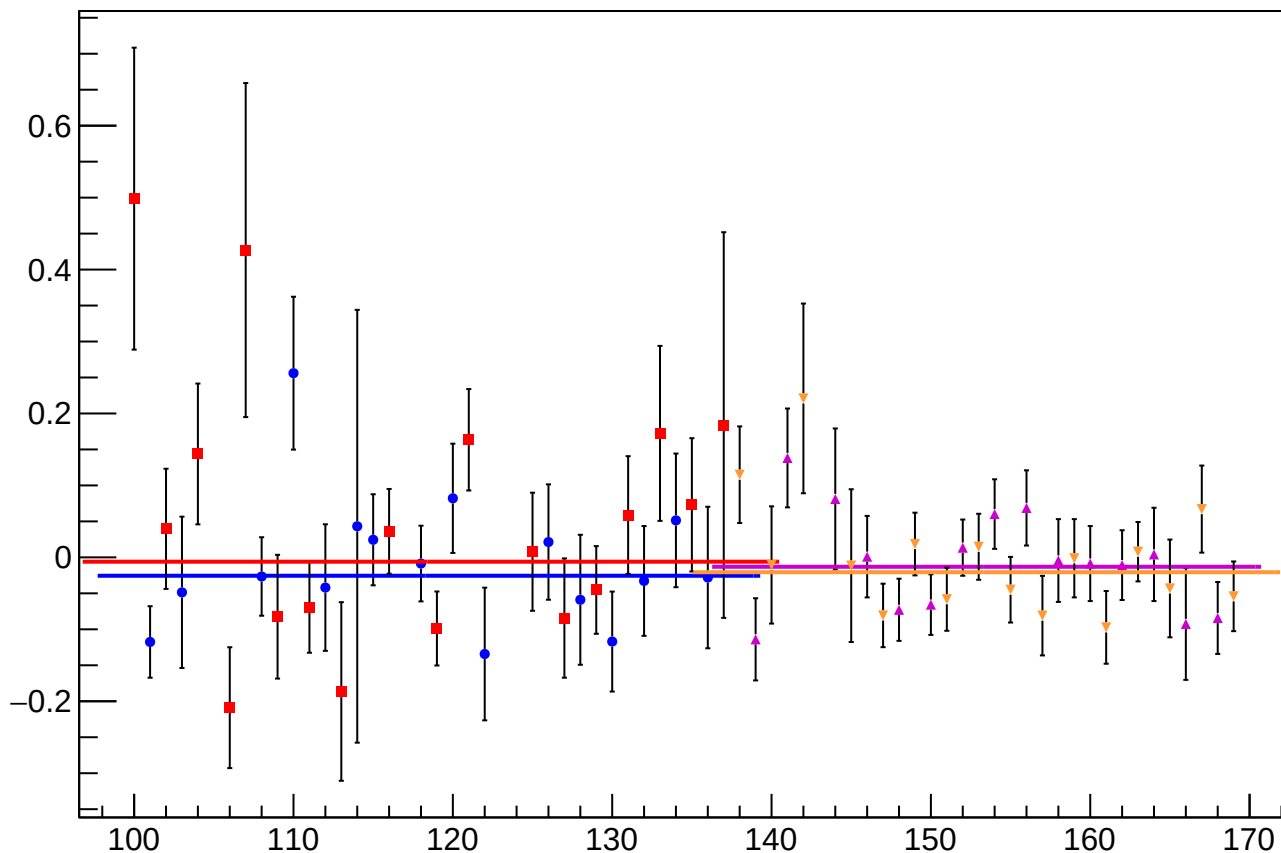
Right: 0.002+/-0.000 χ^2/NDF : 7128830.6/33

In: 0.002+/-0.000 χ^2/NDF :12844299.5/30

Out: 0.002+/-0.000 χ^2/NDF :13270614.5/33

All: 0.002+/-0.000 χ^2/NDF : 26117433.7/64

asym_usl_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.026+/-0.019 χ^2/NDF : 17.6/15

Left Out: -0.021+/-0.013 χ^2/NDF : 18.5/15

Right Out: -0.006+/-0.019 χ^2/NDF : 36.5/17

Left In: -0.013+/-0.014 χ^2/NDF : 20.8/14

Left: -0.017+/-0.010 χ^2/NDF : 39.5/30

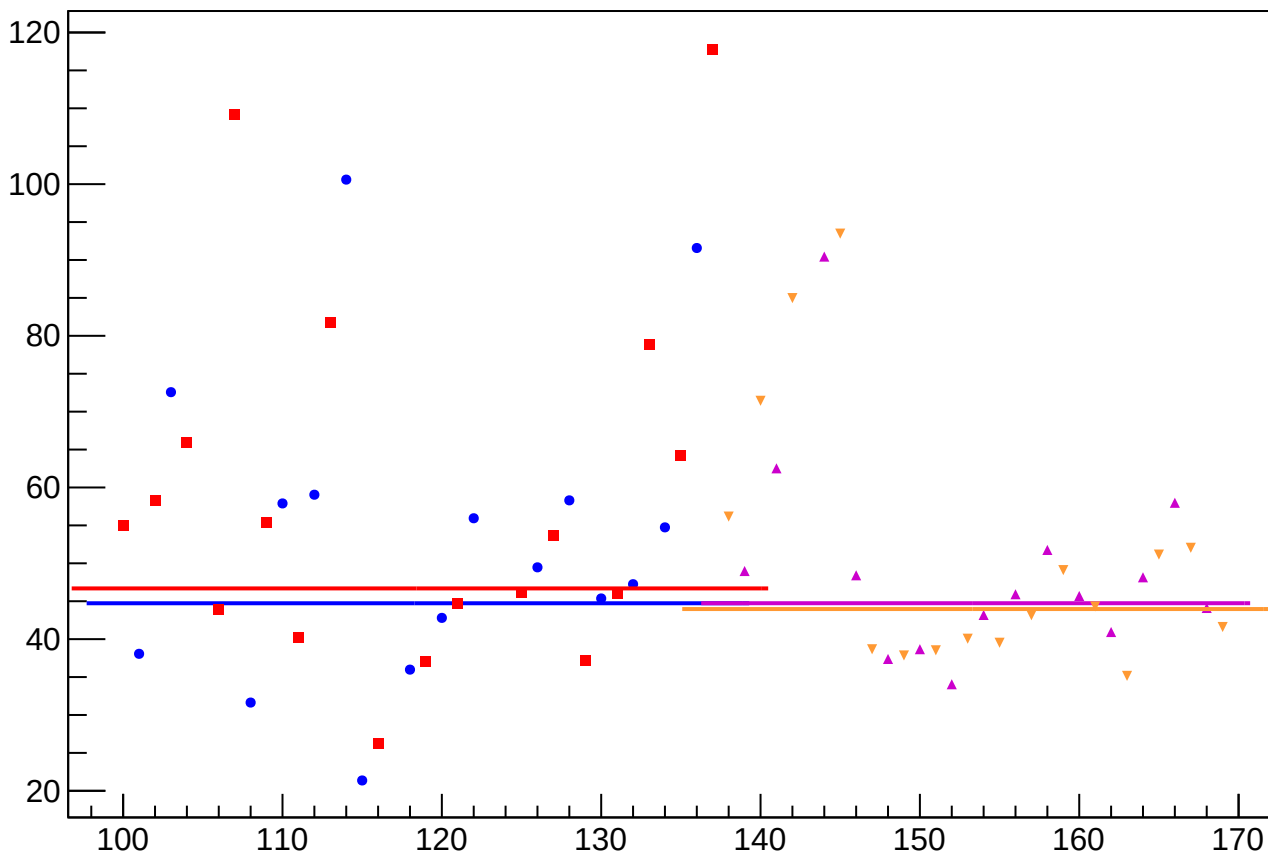
Right: -0.016+/-0.013 χ^2/NDF : 54.7/33

In: -0.017+/-0.011 χ^2/NDF : 38.7/30

Out: -0.016+/-0.011 χ^2/NDF : 55.4/33

All: -0.017+/-0.008 χ^2/NDF : 94.2/64

asym_usl_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 44.732+/-0.013 χ^2/NDF : 1334604.0/15

Left Out: 43.970+/-0.009 χ^2/NDF : 1226637.2/15

Right Out: 46.690+/-0.014 χ^2/NDF : 1195504.1/17

Left In: 44.738+/-0.010 χ^2/NDF : 947374.8/14

Left: 44.346+/-0.007 χ^2/NDF : 2177250.8/30

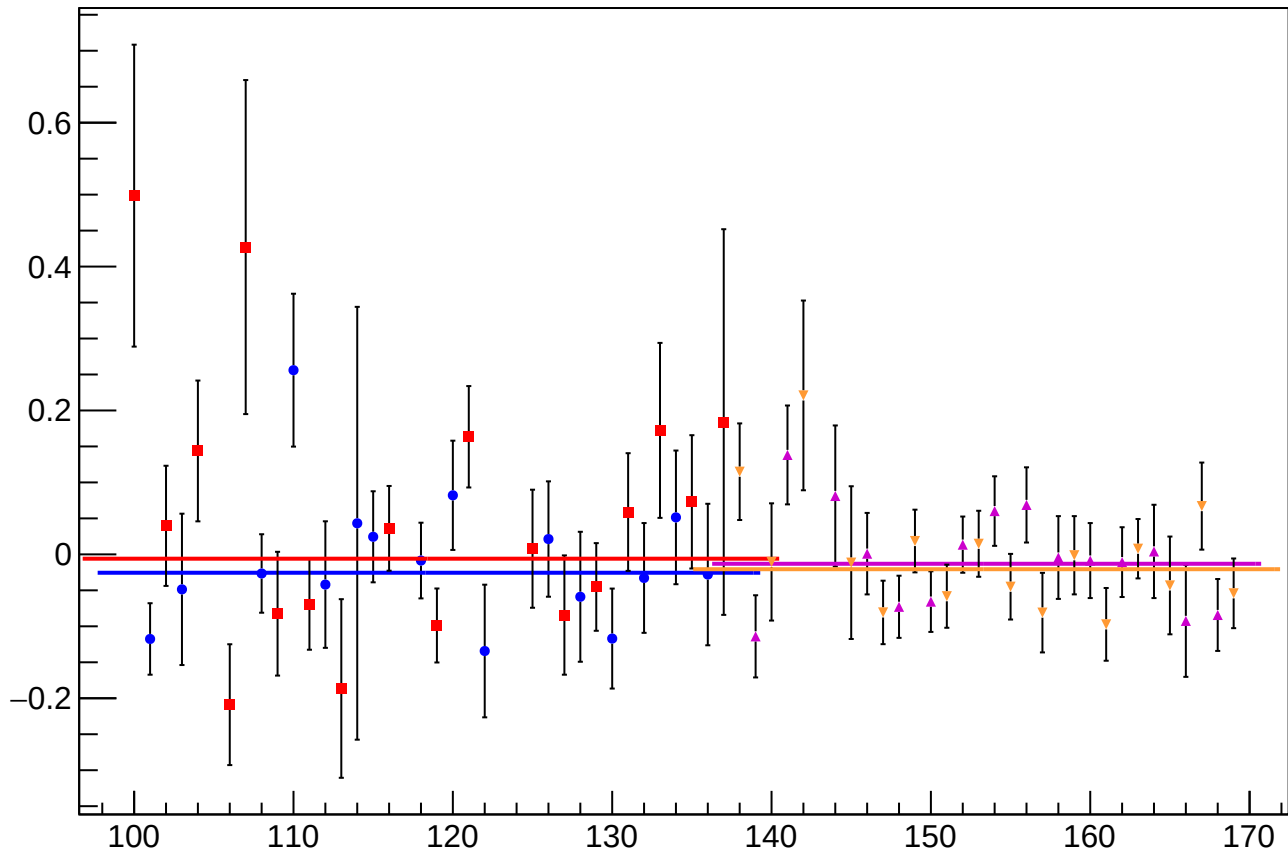
Right: 45.679+/-0.010 χ^2/NDF : 2540631.2/33

In: 44.736+/-0.008 χ^2/NDF : 2281979.0/30

Out: 44.846+/-0.008 χ^2/NDF : 2448810.8/33

All: 44.791+/-0.006 χ^2/NDF : 4730889.6/64

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.026 ± 0.019 χ^2/NDF : 17.6/15

Left Out: -0.021 ± 0.013 χ^2/NDF : 18.5/15

Right Out: -0.006 ± 0.019 χ^2/NDF : 36.5/17

Left In: -0.013 ± 0.014 χ^2/NDF : 20.8/14

Left: -0.017 ± 0.010 χ^2/NDF : 39.5/30

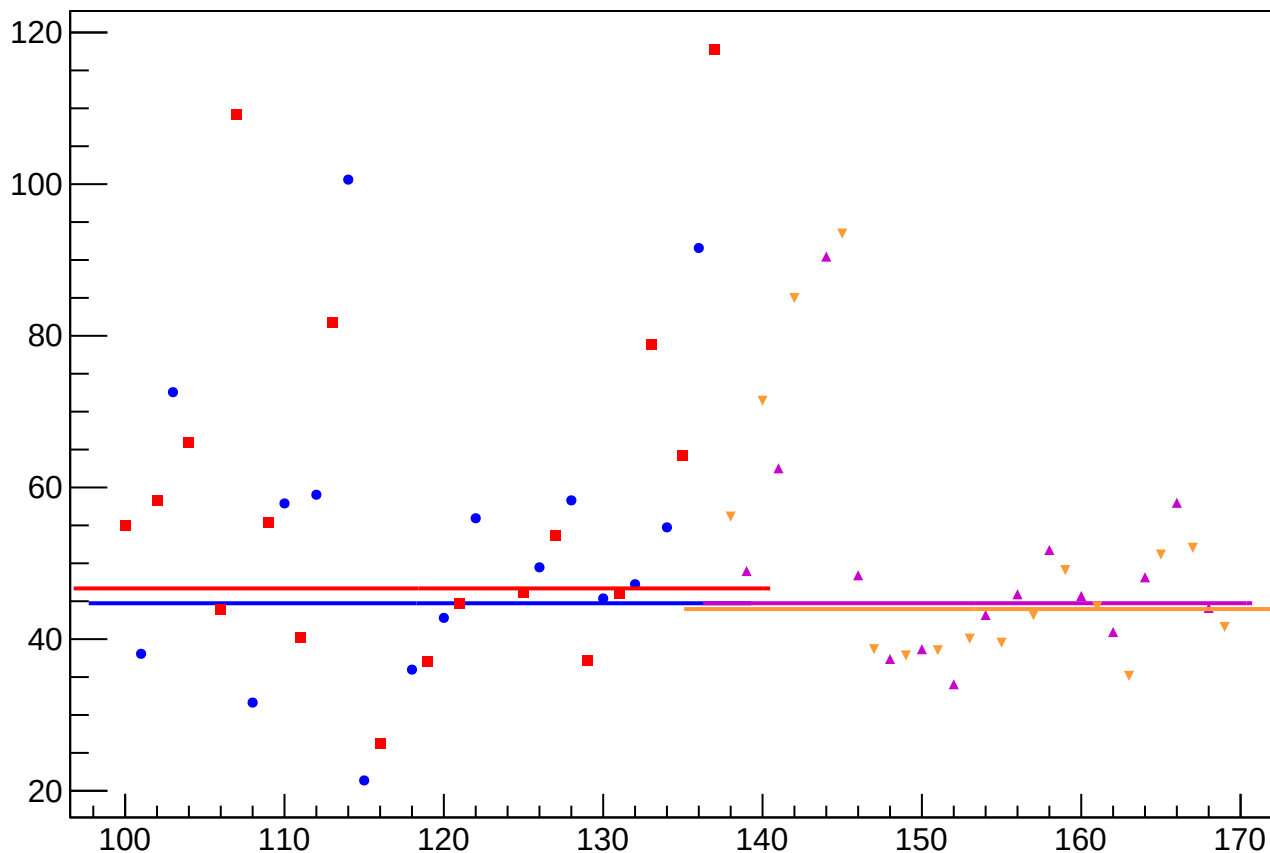
Right: -0.016 ± 0.013 χ^2/NDF : 54.7/33

In: -0.017 ± 0.011 χ^2/NDF : 38.7/30

Out: -0.016 ± 0.011 χ^2/NDF : 55.4/33

All: -0.017 ± 0.008 χ^2/NDF : 94.2/64

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 44.732+/-0.013 χ^2/NDF : 1334604.0/15

Left Out: 43.970+/-0.009 χ^2/NDF : 1226637.2/15

Right Out: 46.690+/-0.014 χ^2/NDF : 1195504.1/17

Left In: 44.738+/-0.010 χ^2/NDF : 947374.8/14

Left: 44.346+/-0.007 χ^2/NDF : 2177250.8/30

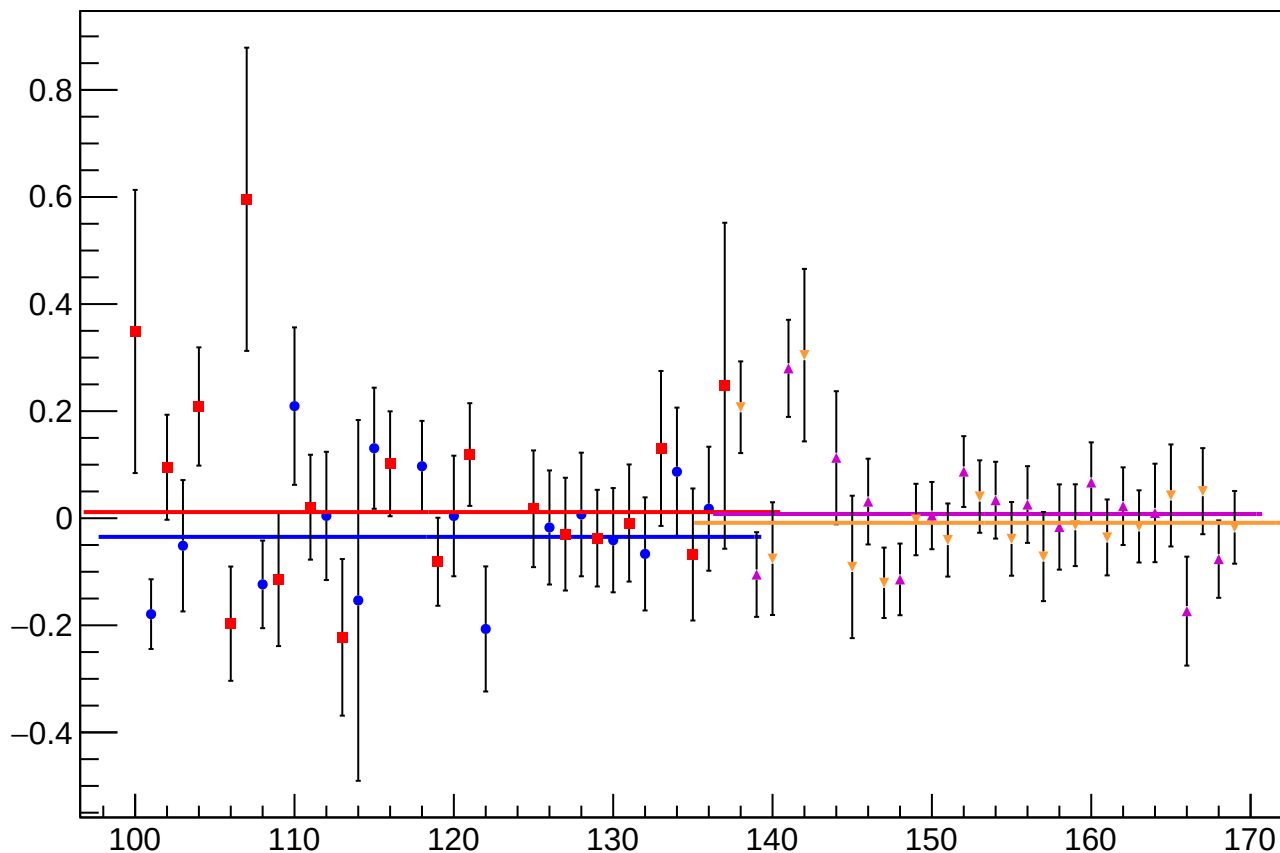
Right: 45.679+/-0.010 χ^2/NDF : 2540631.2/33

In: 44.736+/-0.008 χ^2/NDF : 2281979.0/30

Out: 44.846+/-0.008 χ^2/NDF : 2448810.8/33

All: 44.791+/-0.006 χ^2/NDF : 4730889.6/64

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.035 ± 0.026 $\chi^2/\text{NDF}: 17.4/15$

Left Out: -0.009 ± 0.019 $\chi^2/\text{NDF}: 16.3/15$

Right Out: 0.012 ± 0.027 $\chi^2/\text{NDF}: 22.8/17$

Left In: 0.008 ± 0.020 $\chi^2/\text{NDF}: 22.1/14$

Left: -0.001 ± 0.014 $\chi^2/\text{NDF}: 38.8/30$

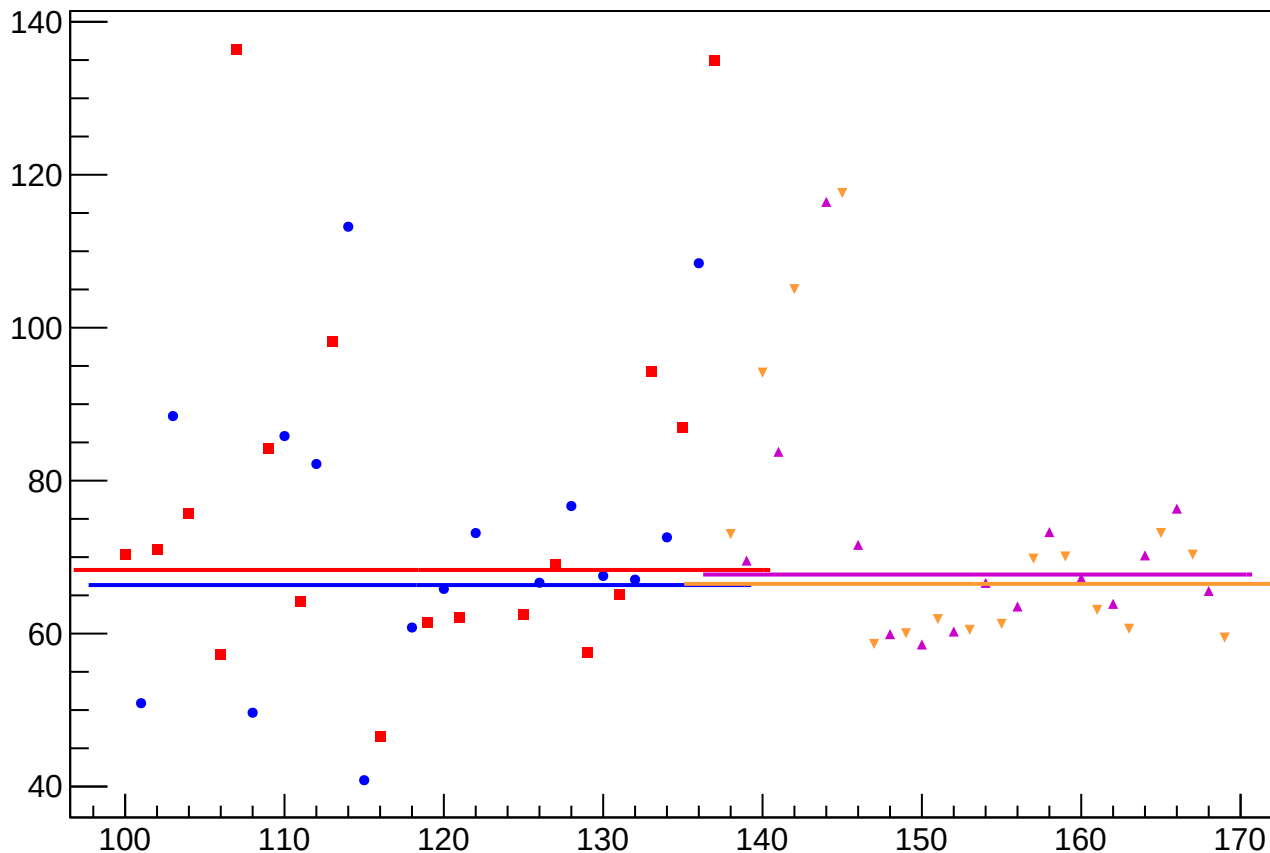
Right: -0.012 ± 0.019 $\chi^2/\text{NDF}: 41.7/33$

In: -0.008 ± 0.016 $\chi^2/\text{NDF}: 41.2/30$

Out: -0.002 ± 0.016 $\chi^2/\text{NDF}: 39.5/33$

All: -0.005 ± 0.011 $\chi^2/\text{NDF}: 80.8/64$

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 66.348 $\pm$ 0.019 χ^2 /NDF: 772660.4/15

Left Out: 66.501 $\pm$ 0.014 χ^2 /NDF: 705741.0/15

Right Out: 68.321 $\pm$ 0.019 χ^2 /NDF: 629665.7/17

Left In: 67.722 $\pm$ 0.014 χ^2 /NDF: 511024.4/14

Left: 67.099 $\pm$ 0.010 χ^2 /NDF: 1220615.0/30

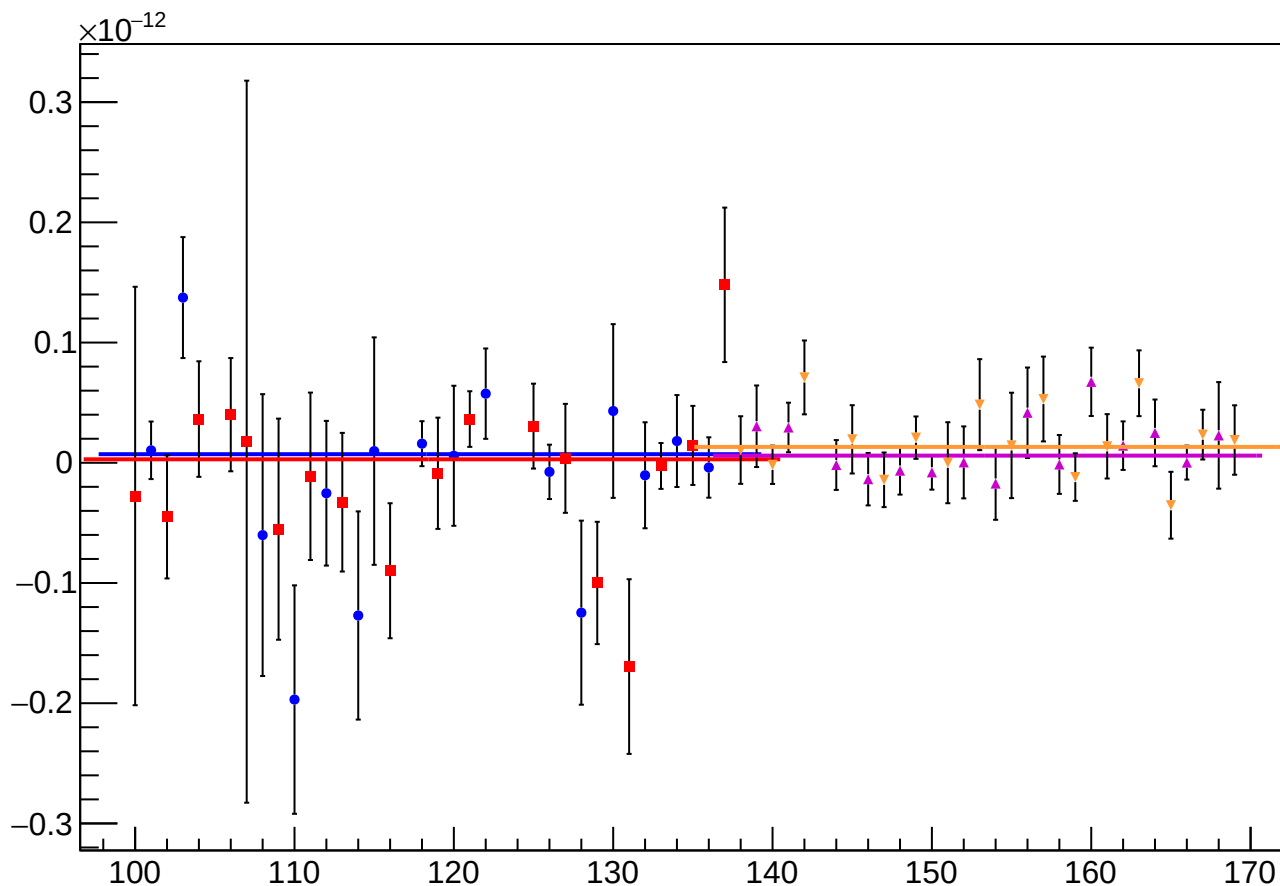
Right: 67.311 $\pm$ 0.013 χ^2 /NDF: 1407834.9/33

In: 67.222 $\pm$ 0.011 χ^2 /NDF: 1287164.3/30

Out: 67.127 $\pm$ 0.011 χ^2 /NDF: 1341414.7/33

All: 67.174 $\pm$ 0.008 χ^2 /NDF: 2628614.9/64

asym_usl_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 17.1/15

Right Out: 0.000+/-0.000 χ^2/NDF : 23.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 11.3/14

Left: 0.000+/-0.000 χ^2/NDF : 29.1/30

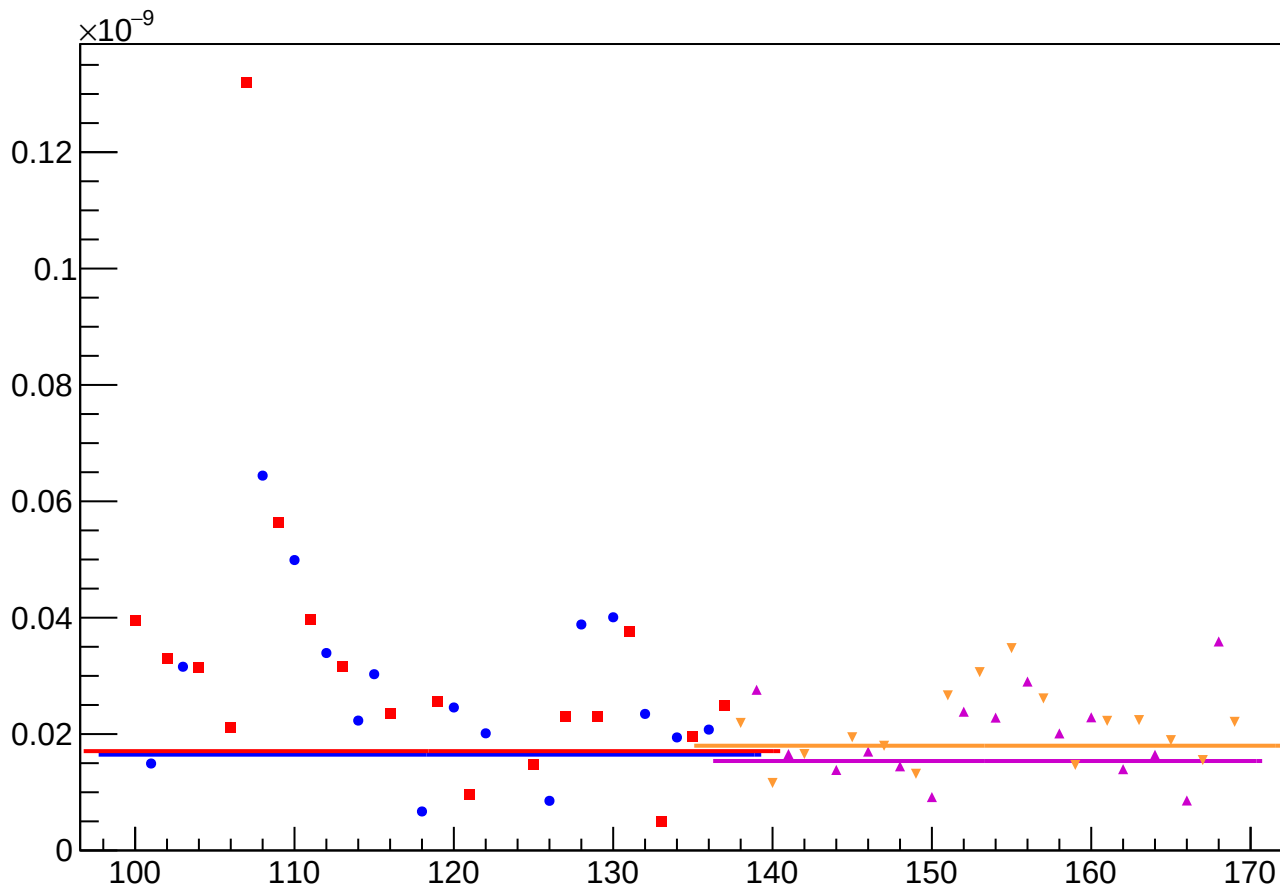
Right: 0.000+/-0.000 χ^2/NDF : 43.9/33

In: 0.000+/-0.000 χ^2/NDF : 31.8/30

Out: 0.000+/-0.000 χ^2/NDF : 41.2/33

All: 0.000+/-0.000 χ^2/NDF : 73.3/64

asym_usl_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2345888.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :1503826.0/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2791354.7/17

Left In: 0.000+/-0.000 χ^2/NDF :2329250.0/14

Left: 0.000+/-0.000 χ^2/NDF : 4024494.1/30

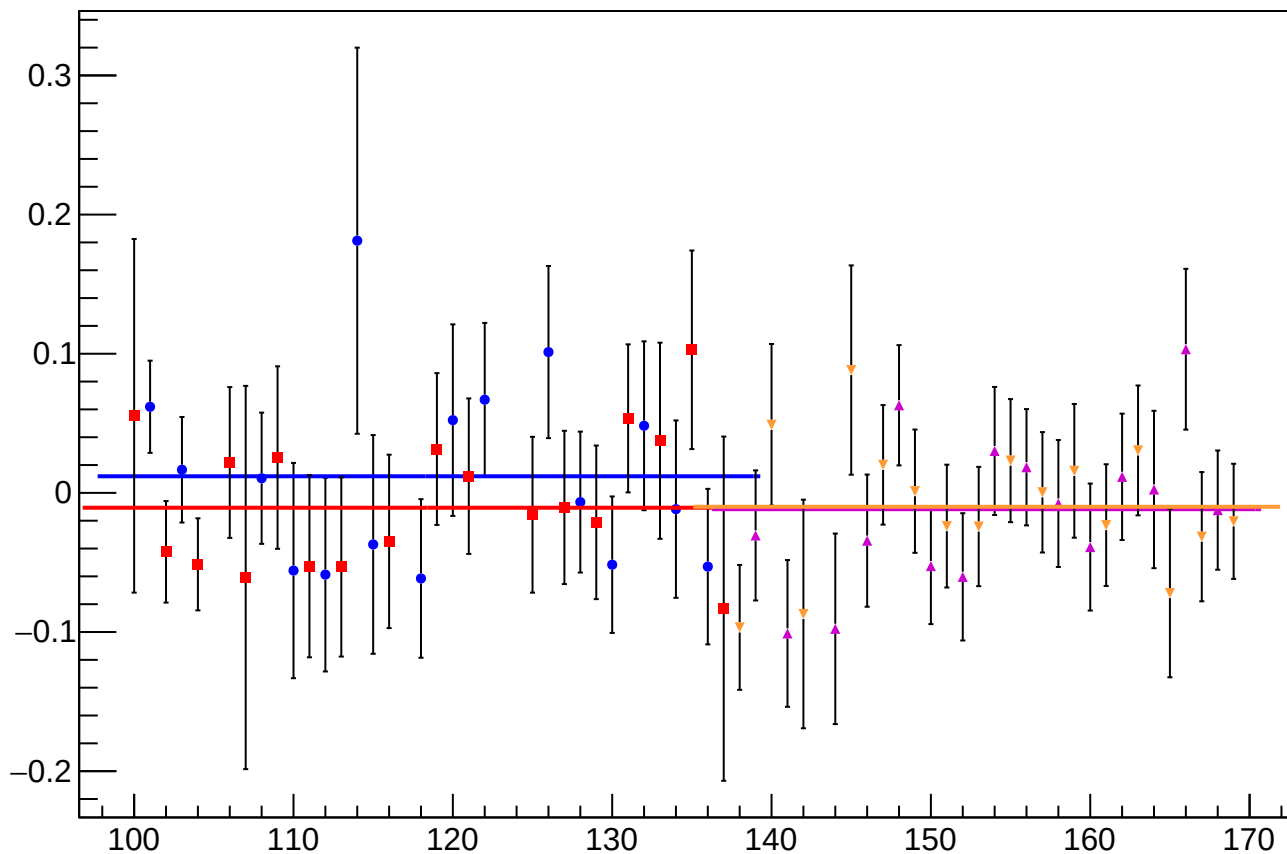
Right: 0.000+/-0.000 χ^2/NDF : 5141308.5/33

In: 0.000+/-0.000 χ^2/NDF :4695333.5/30

Out: 0.000+/-0.000 χ^2/NDF :4307970.8/33

All: 0.000+/-0.000 χ^2/NDF : 9166664.5/64

asym_usl_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 ± 0.014 $\chi^2/\text{NDF}: 14.7/15$

Left Out: -0.010 ± 0.012 $\chi^2/\text{NDF}: 11.2/15$

Right Out: -0.011 ± 0.013 $\chi^2/\text{NDF}: 9.9/17$

Left In: -0.012 ± 0.012 $\chi^2/\text{NDF}: 15.9/14$

Left: -0.011 ± 0.009 $\chi^2/\text{NDF}: 27.1/30$

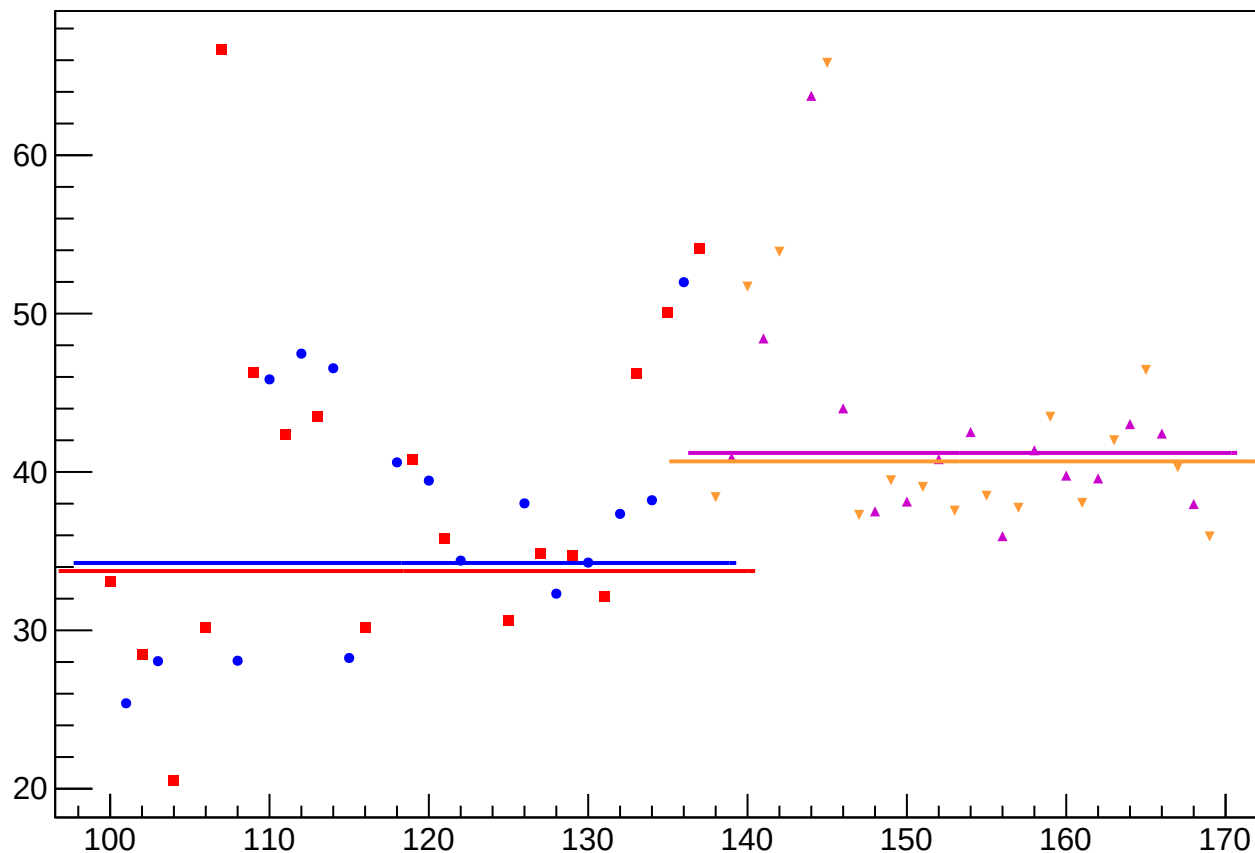
Right: 0.000 ± 0.010 $\chi^2/\text{NDF}: 26.0/33$

In: -0.001 ± 0.009 $\chi^2/\text{NDF}: 32.3/30$

Out: -0.010 ± 0.009 $\chi^2/\text{NDF}: 21.1/33$

All: -0.006 ± 0.006 $\chi^2/\text{NDF}: 53.9/64$

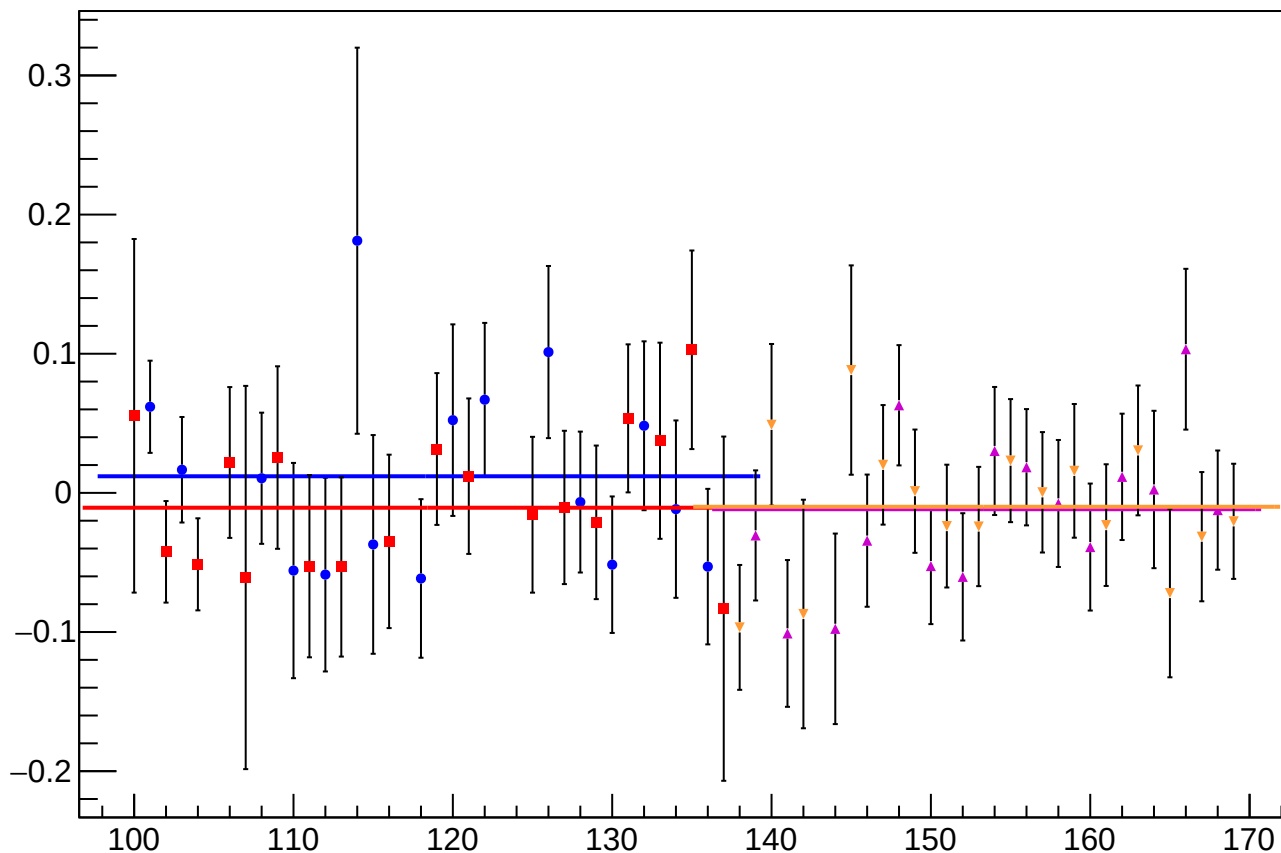
asym_usl_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.254+/-0.010 χ^2/NDF : 636017.1/15
 Left Out: 40.669+/-0.008 χ^2/NDF : 454242.5/15
 Right Out: 33.746+/-0.010 χ^2/NDF : 911938.6/17
 Left In: 41.203+/-0.009 χ^2/NDF : 339092.3/14

Left: 40.931+/-0.006 χ^2/NDF : 795290.1/30
 Right: 33.997+/-0.007 χ^2/NDF : 1549368.8/33
 In: 38.106+/-0.006 χ^2/NDF : 1263943.3/30
 Out: 37.615+/-0.006 χ^2/NDF : 1662641.6/33
 All: 37.856+/-0.005 χ^2/NDF : 2929553.4/64

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 ± 0.014 $\chi^2/\text{NDF}: 14.7/15$

Left Out: -0.010 ± 0.012 $\chi^2/\text{NDF}: 11.2/15$

Right Out: -0.011 ± 0.013 $\chi^2/\text{NDF}: 9.9/17$

Left In: -0.012 ± 0.012 $\chi^2/\text{NDF}: 15.9/14$

Left: -0.011 ± 0.009 $\chi^2/\text{NDF}: 27.1/30$

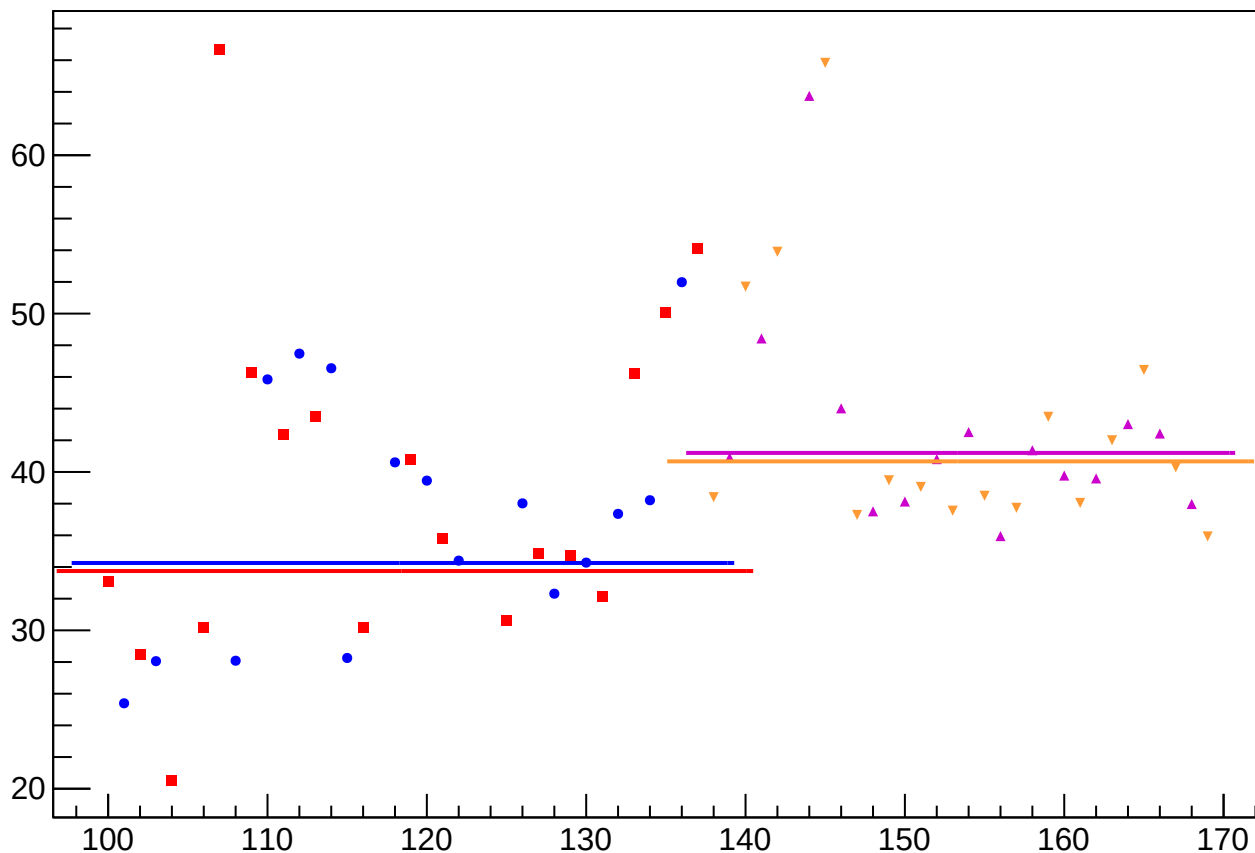
Right: 0.000 ± 0.010 $\chi^2/\text{NDF}: 26.0/33$

In: -0.001 ± 0.009 $\chi^2/\text{NDF}: 32.3/30$

Out: -0.010 ± 0.009 $\chi^2/\text{NDF}: 21.1/33$

All: -0.006 ± 0.006 $\chi^2/\text{NDF}: 53.9/64$

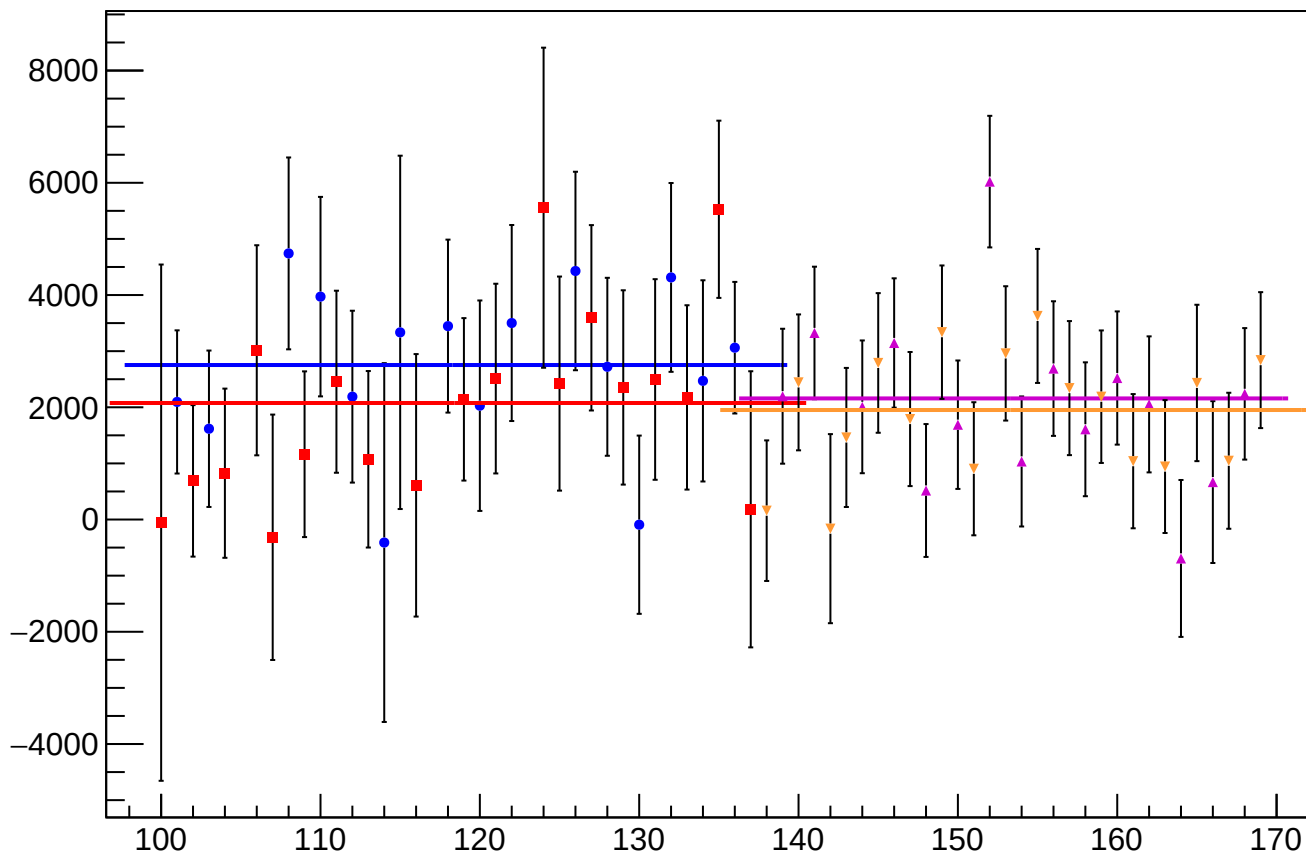
asym_usl_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.254+/-0.010 χ^2/NDF : 636017.1/15
 Left Out: 40.669+/-0.008 χ^2/NDF : 454242.5/15
 Right Out: 33.746+/-0.010 χ^2/NDF : 911938.6/17
 Left In: 41.203+/-0.009 χ^2/NDF : 339092.3/14

Left: 40.931+/-0.006 χ^2/NDF : 795290.1/30
 Right: 33.997+/-0.007 χ^2/NDF : 1549368.8/33
 In: 38.106+/-0.006 χ^2/NDF : 1263943.3/30
 Out: 37.615+/-0.006 χ^2/NDF : 1662641.6/33
 All: 37.856+/-0.005 χ^2/NDF : 2929553.4/64

reg_asym_usr_mean vs Slug, Sign Corrected



Right In: 2753.123 $\pm$ 409.837 χ^2 /NDF: 9.5/15

Left Out: 1951.407 $\pm$ 298.833 χ^2 /NDF:11.9/16

Right Out: 2076.471 $\pm$ 403.796 χ^2 /NDF: 12.5/18

Left In: 2157.874 $\pm$ 311.018 χ^2 /NDF:21.4/14

Left: 2050.517 $\pm$ 215.486 χ^2 /NDF: 33.5/31

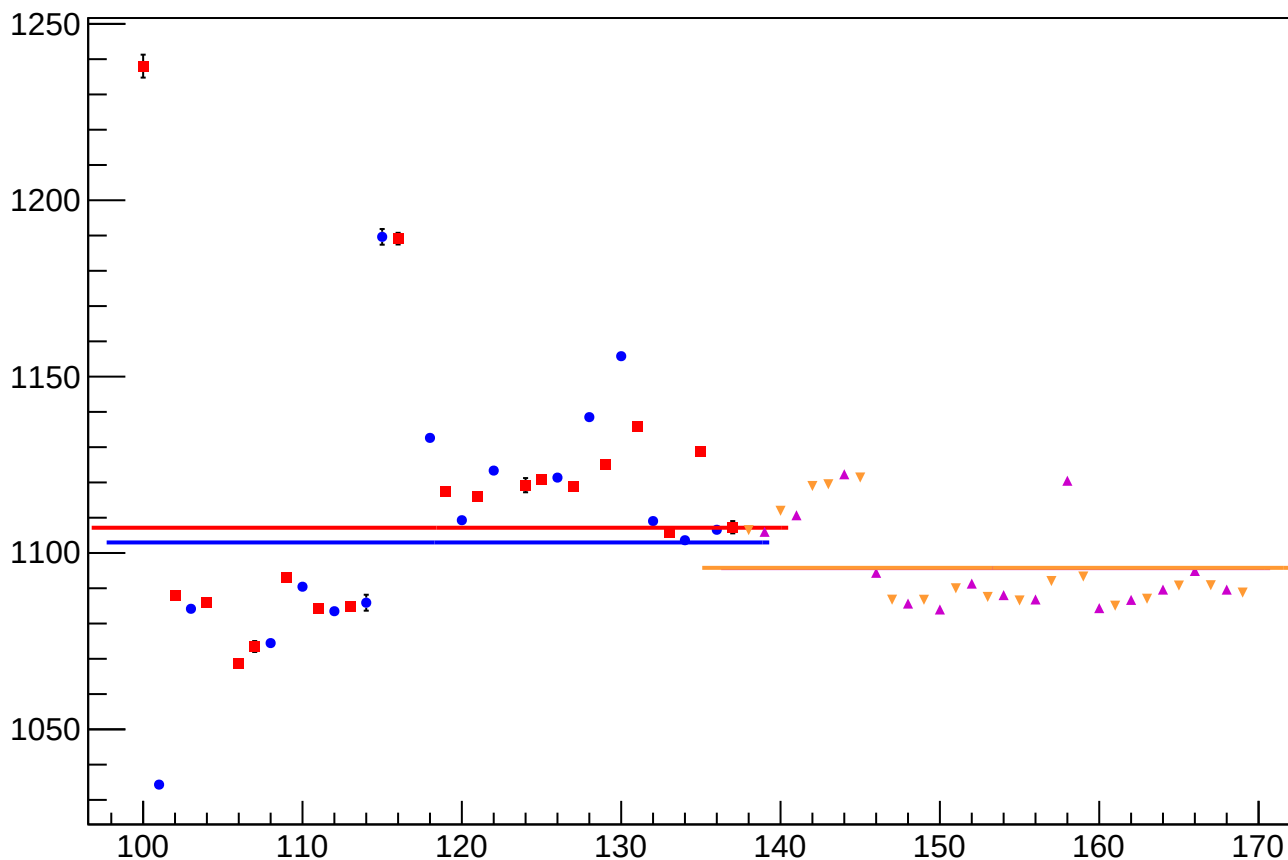
Right: 2409.773 $\pm$ 287.639 χ^2 /NDF: 23.4/34

In: 2375.404 $\pm$ 247.754 χ^2 /NDF:32.2/30

Out: 1995.664 $\pm$ 240.208 χ^2 /NDF:24.5/35

All: 2179.662 $\pm$ 172.459 χ^2 /NDF: 57.9/66

reg_asym_usr_rms vs Slug, Sign Corrected



Right In: 1102.988 $\pm$ 0.290 χ^2 /NDF: 13223.8/15

Left Out: 1095.788 $\pm$ 0.211 χ^2 /NDF: 3378.6/16

Right Out: 1107.159 $\pm$ 0.286 χ^2 /NDF: 8683.4/18

Left In: 1095.712 $\pm$ 0.220 χ^2 /NDF: 3311.0/14

Left: 1095.752 $\pm$ 0.152 χ^2 /NDF: 6689.6/31

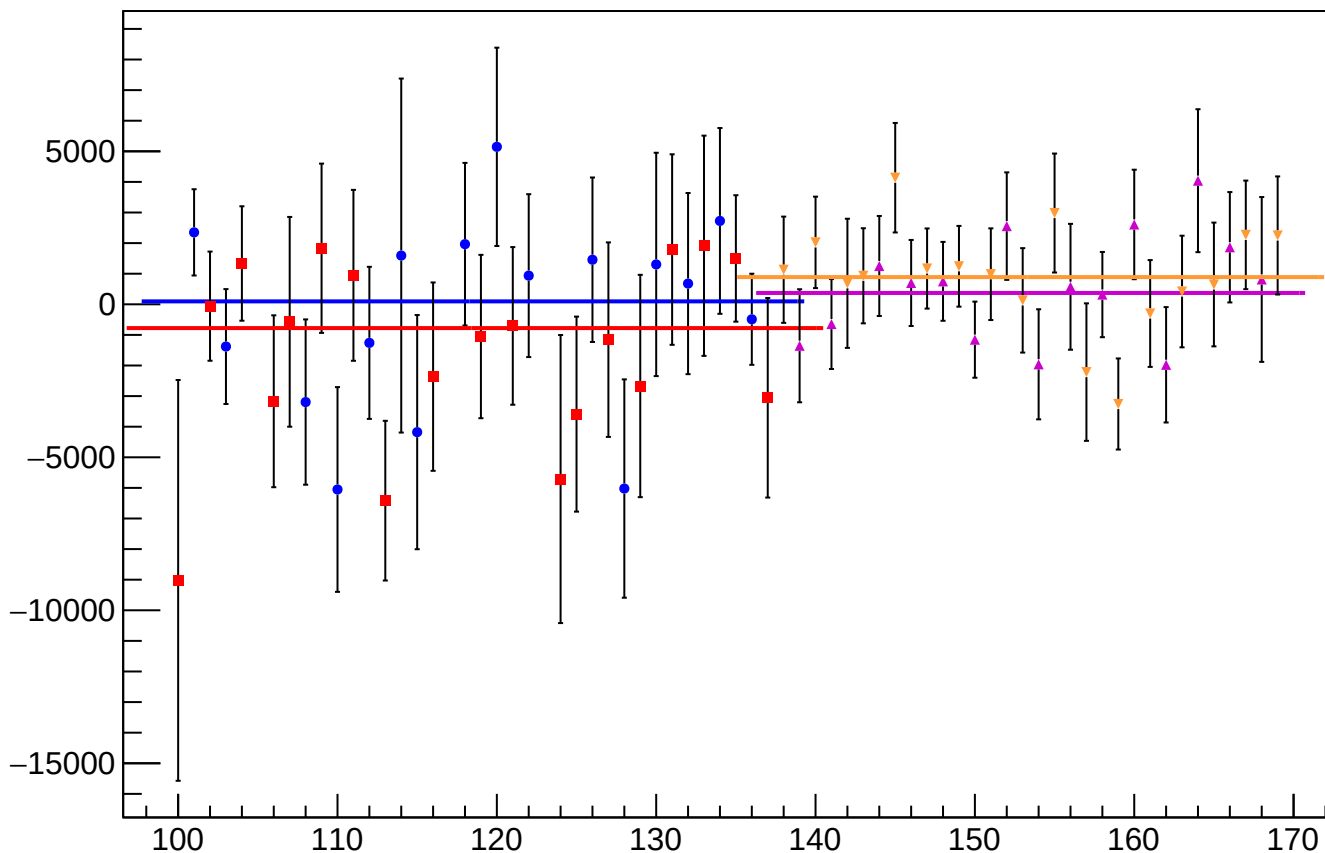
Right: 1105.104 $\pm$ 0.203 χ^2 /NDF: 22012.3/34

In: 1098.371 $\pm$ 0.175 χ^2 /NDF: 16934.7/30

Out: 1099.812 $\pm$ 0.170 χ^2 /NDF: 13086.7/35

All: 1099.114 $\pm$ 0.122 χ^2 /NDF: 30056.3/66

asym_usr_reg_correction_mean vs Slug, Sign Corrected



Right In: 95.955 $\pm$ 618.095 χ^2/NDF : 16.9/15

Left Out: 889.509 $\pm$ 406.579 χ^2/NDF : 16.7/16

Right Out: -776.996 $\pm$ 636.966 χ^2/NDF : 15.1/18

Left In: 370.705 $\pm$ 426.717 χ^2/NDF : 12.8/14

Left: 642.637 $\pm$ 294.357 χ^2/NDF : 30.3/31

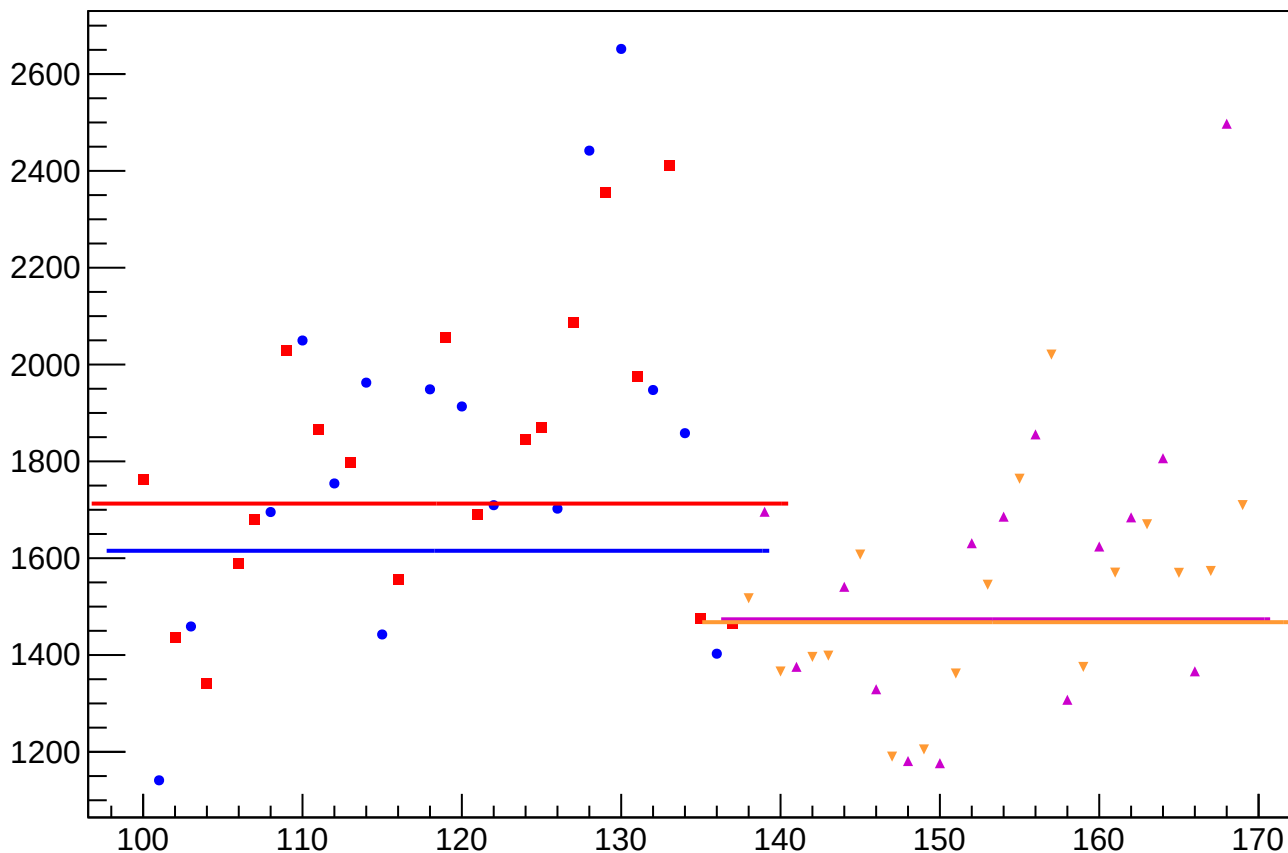
Right: -327.398 $\pm$ 443.581 χ^2/NDF : 33.0/34

In: 282.022 $\pm$ 351.161 χ^2/NDF : 29.9/30

Out: 407.077 $\pm$ 342.713 χ^2/NDF : 36.6/35

All: 346.072 $\pm$ 245.267 χ^2/NDF : 66.6/66

asym_usr_reg_correction_rms vs Slug, Sign Corrected



Right In: 1615.316 $\pm$ 0.437 χ^2 /NDF: 693630.0/15

Left Out: 1467.849 $\pm$ 0.287 χ^2 /NDF: 462971.7/16

Right Out: 1712.798 $\pm$ 0.450 χ^2 /NDF: 428065.0/18

Left In: 1473.769 $\pm$ 0.302 χ^2 /NDF: 796649.5/14

Left: 1470.666 $\pm$ 0.208 χ^2 /NDF: 1259823.0/31

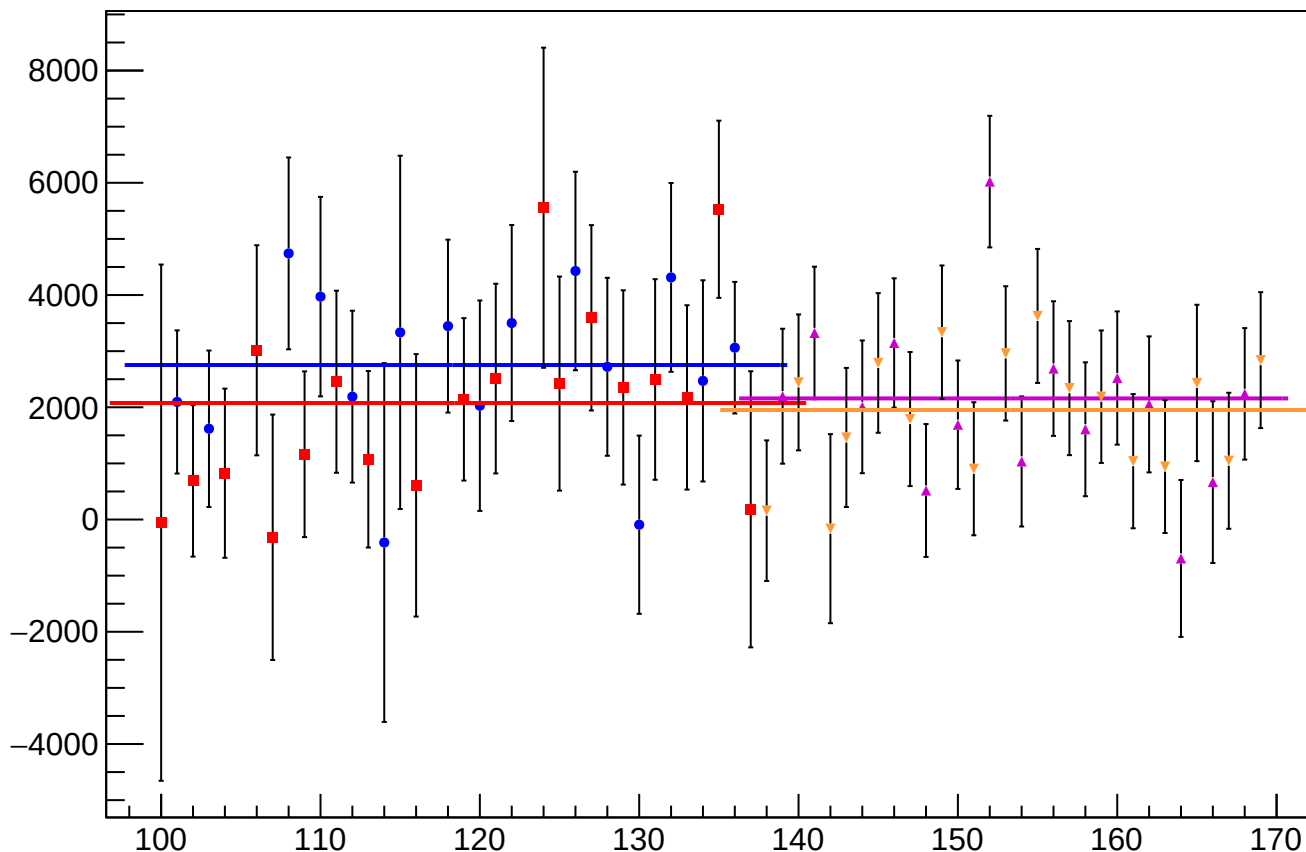
Right: 1662.591 $\pm$ 0.314 χ^2 /NDF: 1145820.9/34

In: 1519.457 $\pm$ 0.248 χ^2 /NDF: 1561310.6/30

Out: 1538.759 $\pm$ 0.242 χ^2 /NDF: 1101182.5/35

All: 1529.343 $\pm$ 0.173 χ^2 /NDF: 2665587.8/66

cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 2753.123 $\pm$ 409.837 χ^2 /NDF: 9.5/15

Left Out: 1951.407 $\pm$ 298.833 χ^2 /NDF:11.9/16

Right Out: 2076.471 $\pm$ 403.796 χ^2 /NDF: 12.5/18

Left In: 2157.874 $\pm$ 311.018 χ^2 /NDF:21.4/14

Left: 2050.517 $\pm$ 215.486 χ^2 /NDF: 33.5/31

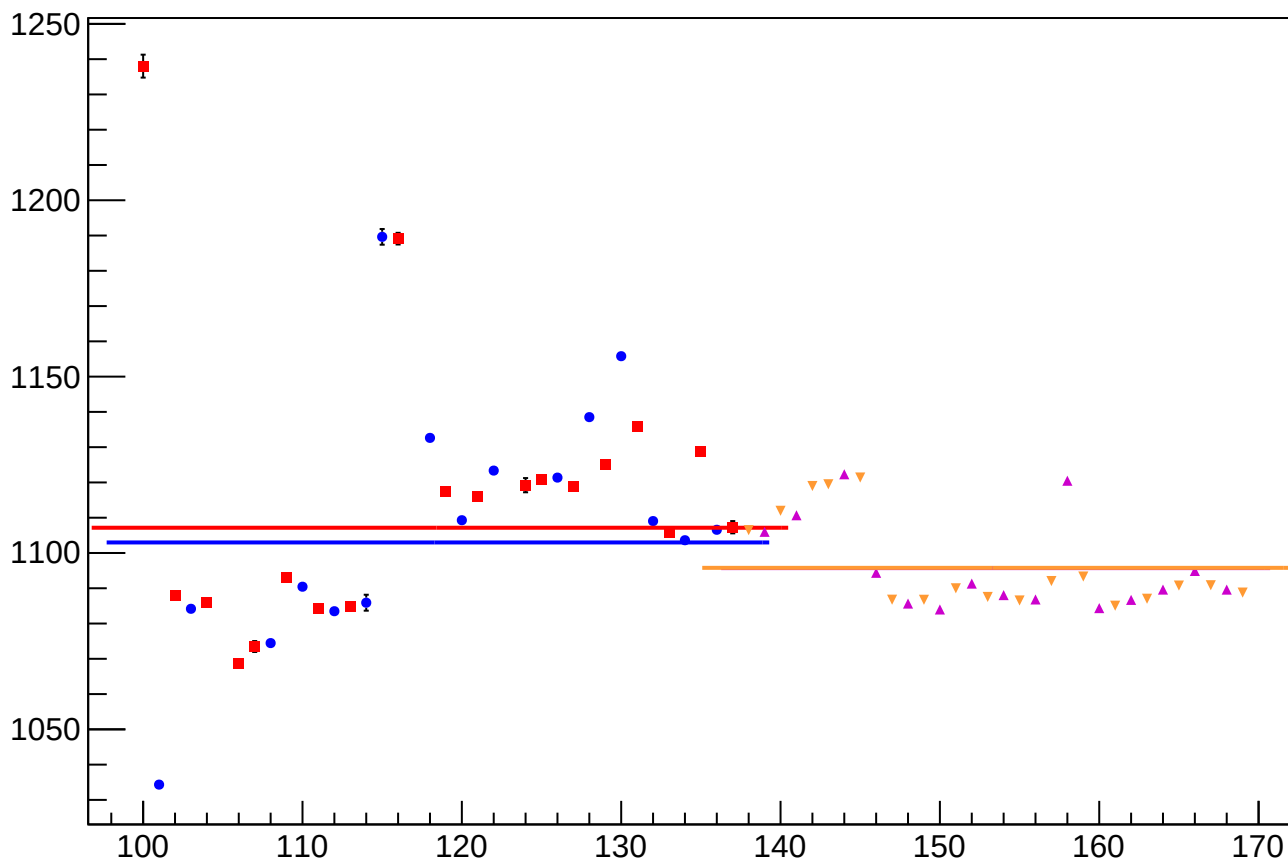
Right: 2409.773 $\pm$ 287.639 χ^2 /NDF: 23.4/34

In: 2375.404 $\pm$ 247.754 χ^2 /NDF:32.2/30

Out: 1995.664 $\pm$ 240.208 χ^2 /NDF:24.5/35

All: 2179.662 $\pm$ 172.459 χ^2 /NDF: 57.9/66

cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1102.988 $\pm$ 0.290 χ^2/NDF : 13223.8/15

Left Out: 1095.788 $\pm$ 0.211 χ^2/NDF : 3378.6/16

Right Out: 1107.159 $\pm$ 0.286 χ^2/NDF : 8683.4/18

Left In: 1095.712 $\pm$ 0.220 χ^2/NDF : 3311.0/14

Left: 1095.752 $\pm$ 0.152 χ^2/NDF : 6689.6/31

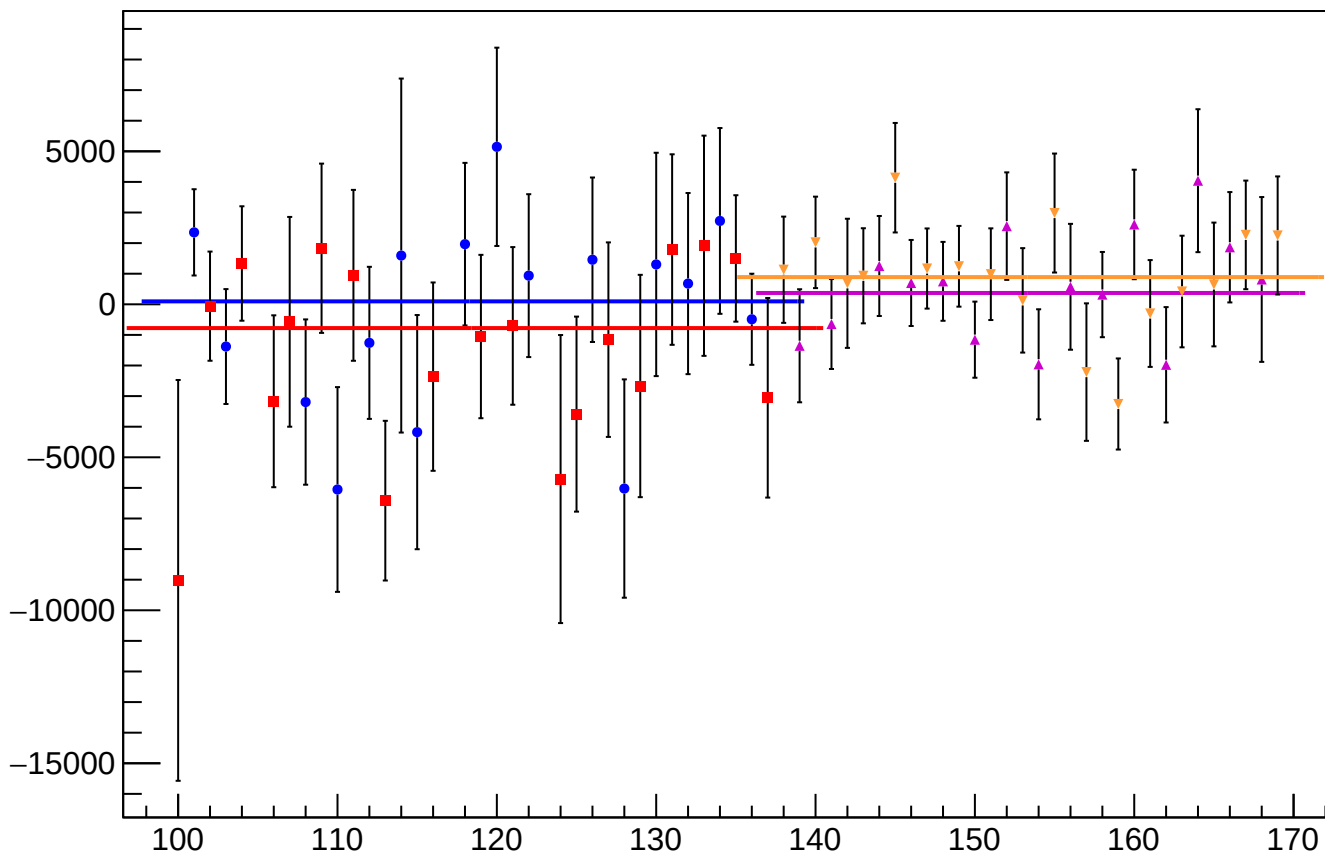
Right: 1105.104 $\pm$ 0.203 χ^2/NDF : 22012.3/34

In: 1098.371 $\pm$ 0.175 χ^2/NDF : 16934.7/30

Out: 1099.812 $\pm$ 0.170 χ^2/NDF : 13086.7/35

All: 1099.114 $\pm$ 0.122 χ^2/NDF : 30056.3/66

asym_usr_cor_correction_mean vs Slug, Sign Corrected



Right In: 95.955+/-618.095 χ^2/NDF : 16.9/15

Left Out: 889.509+/-406.579 χ^2/NDF : 16.7/16

Right Out: -776.996+/-636.966 χ^2/NDF : 15.1/18

Left In: 370.705+/-426.717 χ^2/NDF : 12.8/14

Left: 642.637+/-294.357 χ^2/NDF : 30.3/31

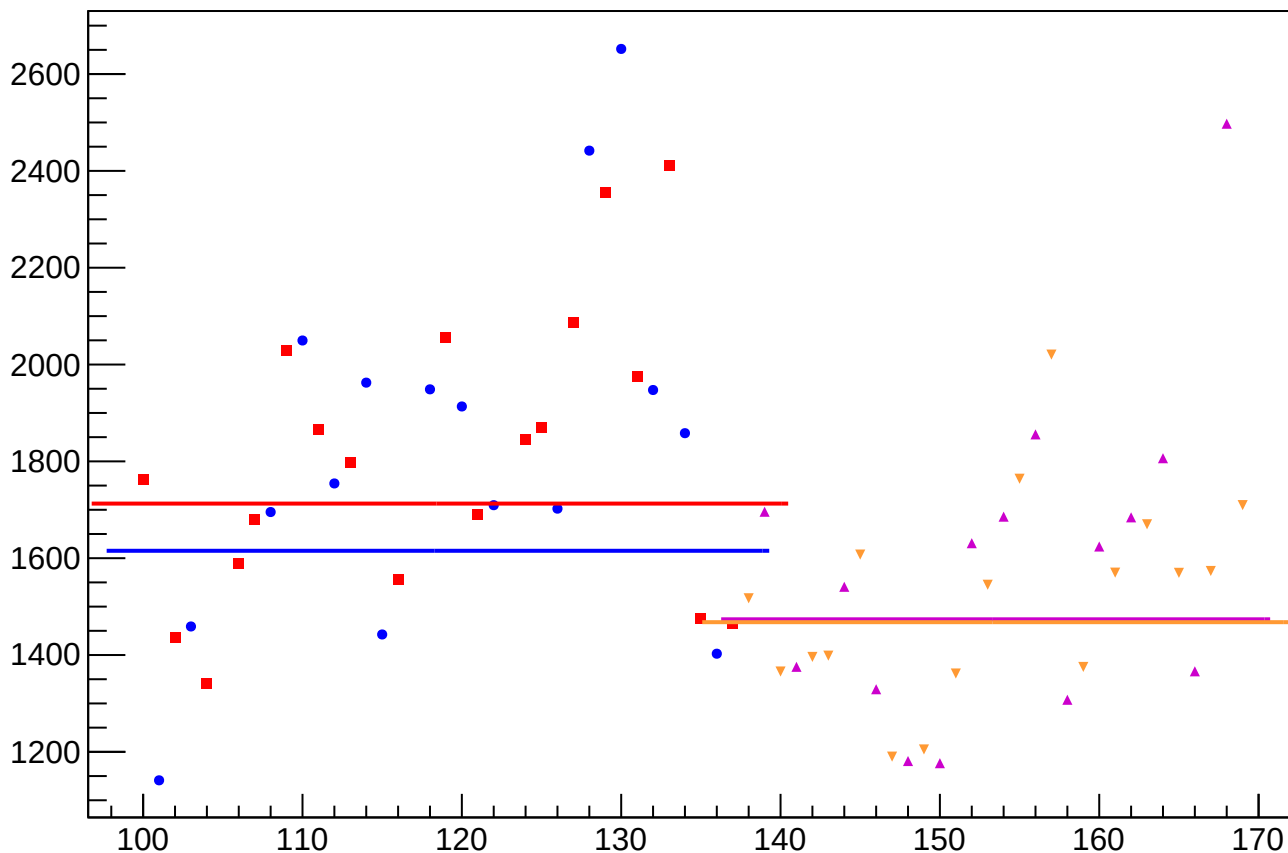
Right: -327.398+/-443.581 χ^2/NDF : 33.0/34

In: 282.022+/-351.161 χ^2/NDF : 29.9/30

Out: 407.077+/-342.713 χ^2/NDF : 36.6/35

All: 346.072+/-245.267 χ^2/NDF : 66.6/66

asym_usr_cor_correction_rms vs Slug, Sign Corrected



Right In: 1615.316 $\pm$ 0.437 χ^2 /NDF: 693630.0/15

Left Out: 1467.849 $\pm$ 0.287 χ^2 /NDF: 462971.7/16

Right Out: 1712.798 $\pm$ 0.450 χ^2 /NDF: 428065.0/18

Left In: 1473.769 $\pm$ 0.302 χ^2 /NDF: 796649.5/14

Left: 1470.666 $\pm$ 0.208 χ^2 /NDF: 1259823.0/31

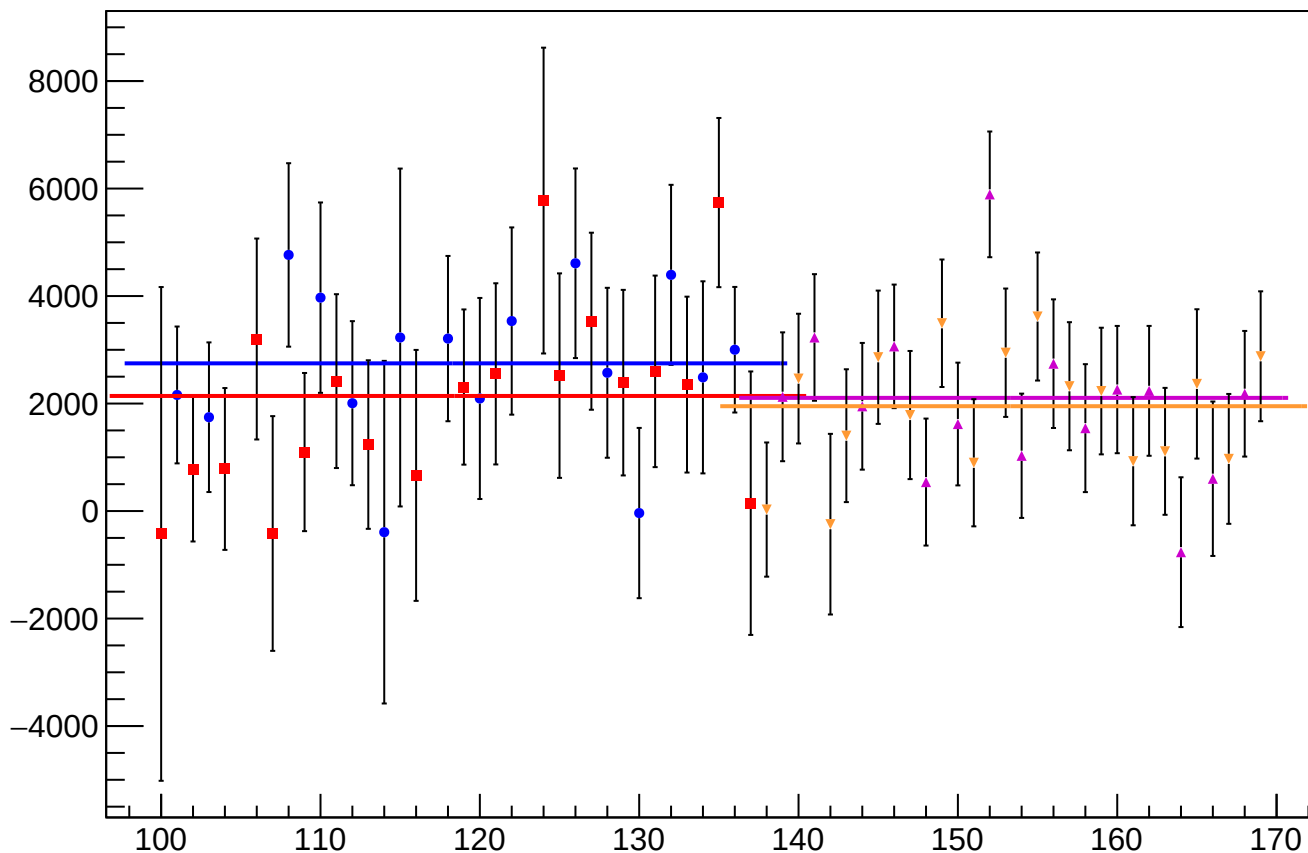
Right: 1662.591 $\pm$ 0.314 χ^2 /NDF: 1145820.9/34

In: 1519.457 $\pm$ 0.248 χ^2 /NDF: 1561310.6/30

Out: 1538.759 $\pm$ 0.242 χ^2 /NDF: 1101182.5/35

All: 1529.343 $\pm$ 0.173 χ^2 /NDF: 2665587.8/66

overload_cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 2747.939 $\pm$ 408.759 χ^2/NDF : 9.5/15

Left Out: 1950.632 $\pm$ 298.057 χ^2/NDF :12.9/16

Right Out: 2141.169 $\pm$ 402.789 χ^2/NDF : 13.6/18

Left In: 2105.551 $\pm$ 310.227 χ^2/NDF :20.8/14

Left: 2024.993 $\pm$ 214.932 χ^2/NDF : 33.8/31

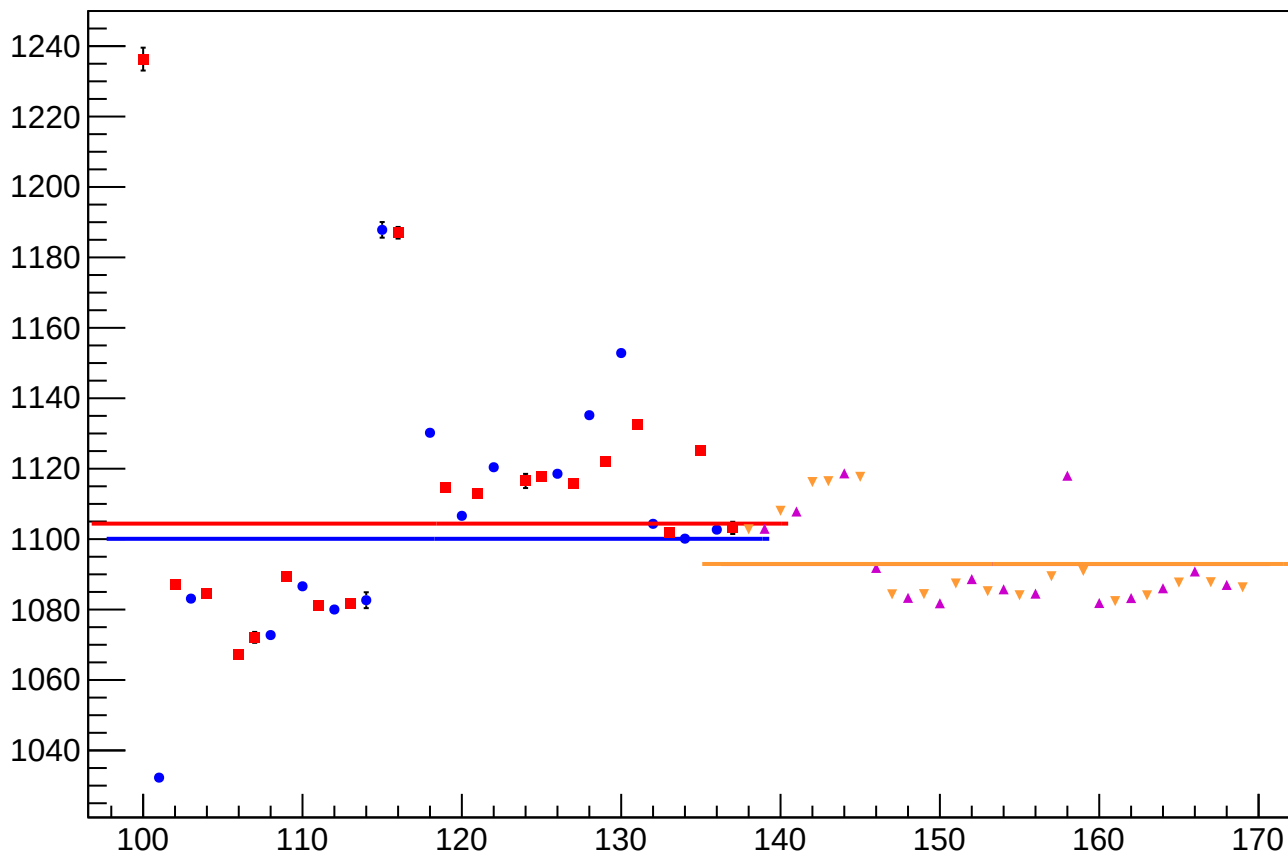
Right: 2440.090 $\pm$ 286.902 χ^2/NDF : 24.2/34

In: 2340.332 $\pm$ 247.116 χ^2/NDF :31.9/30

Out: 2018.050 $\pm$ 239.592 χ^2/NDF :26.6/35

All: 2174.210 $\pm$ 172.016 χ^2/NDF : 59.3/66

overload_cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1100.090 $\pm$ 0.289 χ^2 /NDF: 13077.1/15

Left Out: 1092.946 $\pm$ 0.211 χ^2 /NDF:3208.4/16

Right Out: 1104.403 $\pm$ 0.285 χ^2 /NDF: 8543.5/18

Left In: 1092.925 $\pm$ 0.219 χ^2 /NDF:3236.7/14

Left: 1092.936 $\pm$ 0.152 χ^2 /NDF: 6445.1/31

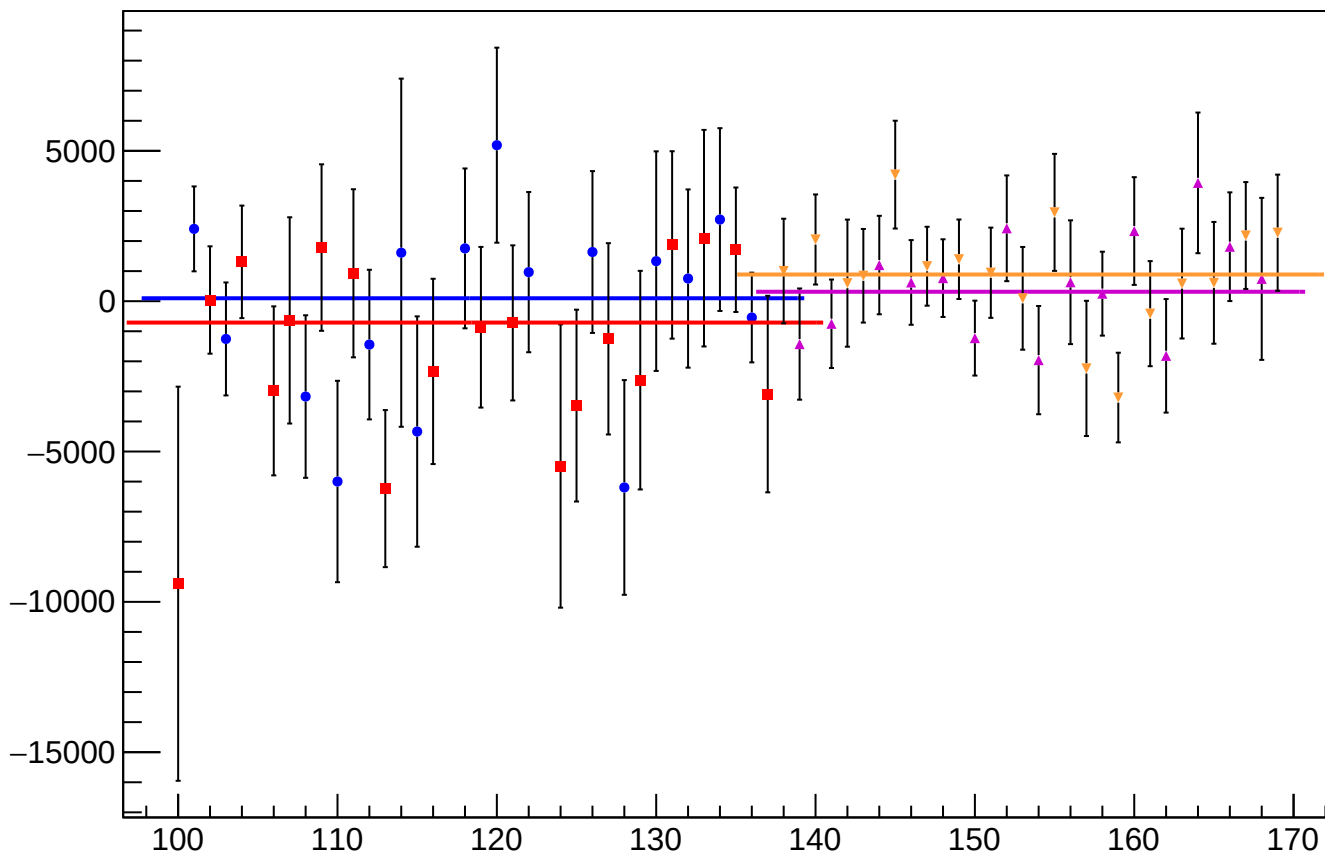
Right: 1102.278 $\pm$ 0.203 χ^2 /NDF: 21733.6/34

In: 1095.544 $\pm$ 0.175 χ^2 /NDF:16703.8/30

Out: 1097.000 $\pm$ 0.169 χ^2 /NDF:12797.4/35

All: 1096.294 $\pm$ 0.122 χ^2 /NDF: 29537.0/66

asym_usr_overload_cor_correction_mean vs Slug, Sign Corrected



Right In: 97.435+/-618.876 χ^2/NDF : 17.2/15

Left Out: 887.268+/-407.200 χ^2/NDF : 16.7/16

Right Out: -711.287+/-637.587 χ^2/NDF : 14.9/18

Left In: 313.540+/-427.351 χ^2/NDF : 12.1/14

Left: 614.249+/-294.800 χ^2/NDF : 29.8/31

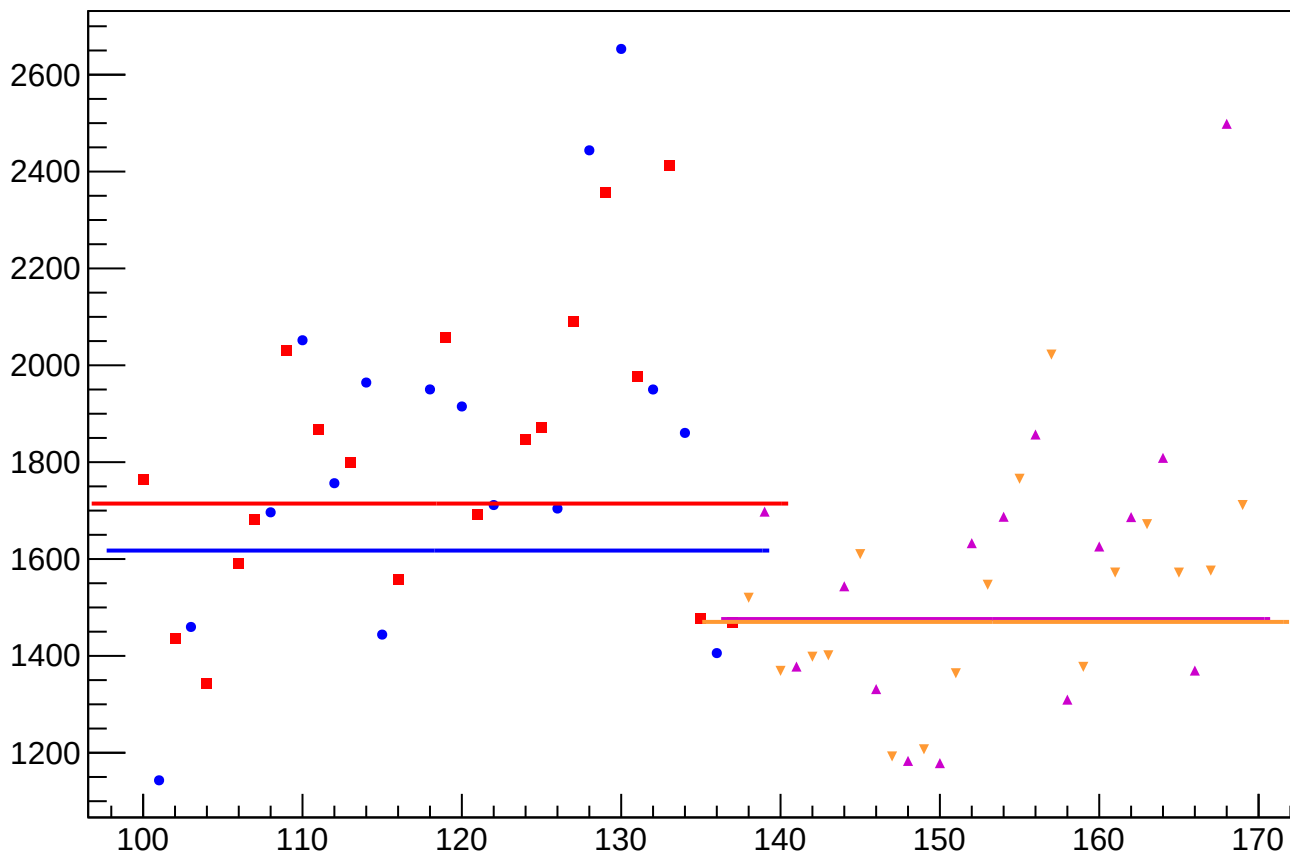
Right: -294.885+/-444.079 χ^2/NDF : 33.0/34

In: 243.766+/-351.657 χ^2/NDF : 29.4/30

Out: 424.144+/-343.182 χ^2/NDF : 36.1/35

All: 336.155+/-245.608 χ^2/NDF : 65.7/66

asym_usr_overload_cor_correction_rms vs Slug, Sign Corrected



Right In: 1617.491+/-0.438 χ^2/NDF : 691725.3/15

Left Out: 1470.187+/-0.288 χ^2/NDF : 460985.6/16

Right Out: 1714.508+/-0.451 χ^2/NDF : 427709.9/18

Left In: 1476.070+/-0.302 χ^2/NDF : 793813.3/14

Left: 1472.986+/-0.208 χ^2/NDF : 1254997.6/31

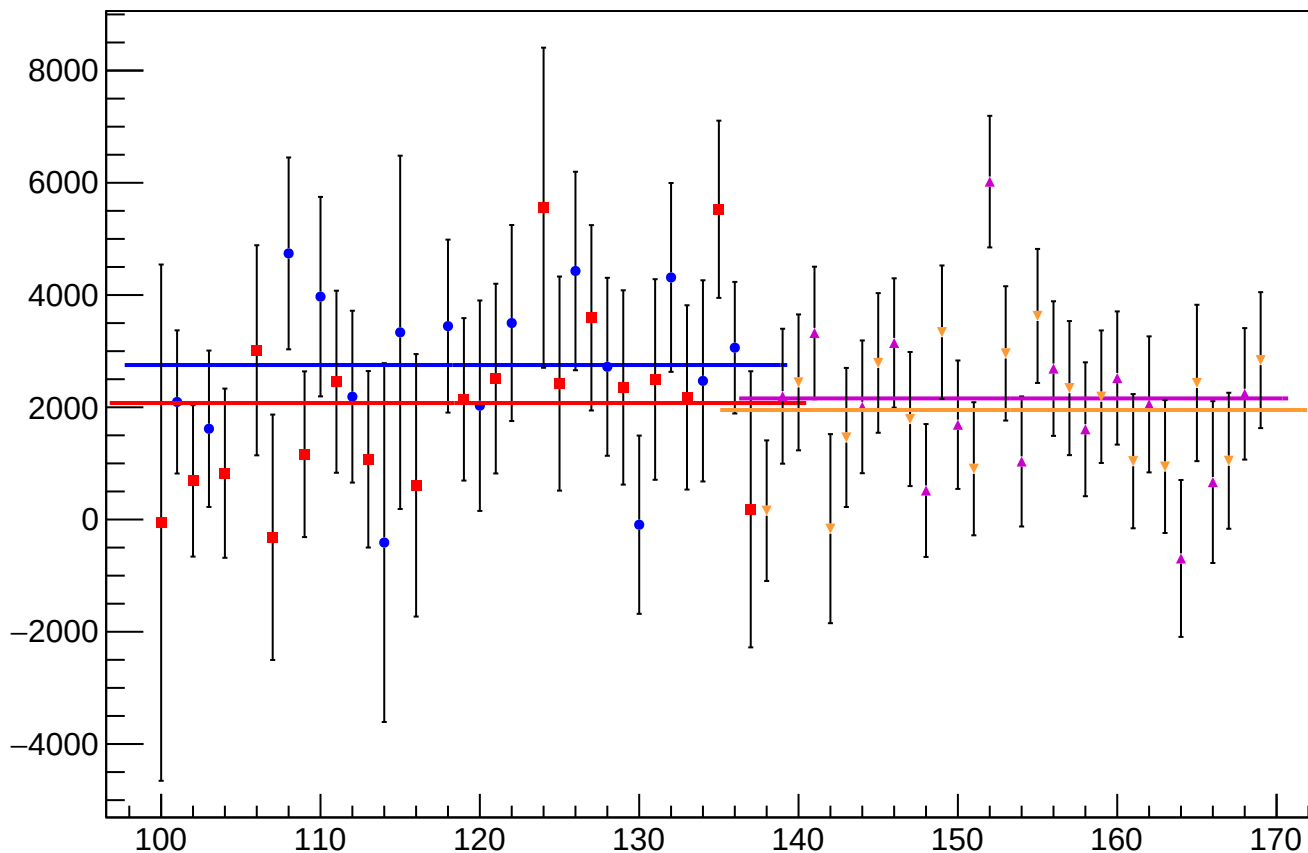
Right: 1664.555+/-0.314 χ^2/NDF : 1143278.0/34

In: 1521.731+/-0.249 χ^2/NDF : 1556255.5/30

Out: 1540.970+/-0.243 χ^2/NDF : 1097290.6/35

All: 1531.585+/-0.174 χ^2/NDF : 2656612.4/66

eigen_cor_asym_usr_mean vs Slug, Sign Corrected



Right In: 2753.123 $\pm$ 409.837 χ^2/NDF : 9.5/15

Left Out: 1951.407 $\pm$ 298.833 χ^2/NDF : 11.9/16

Right Out: 2076.471 $\pm$ 403.796 χ^2/NDF : 12.5/18

Left In: 2157.874 $\pm$ 311.018 χ^2/NDF : 21.4/14

Left: 2050.517 $\pm$ 215.486 χ^2/NDF : 33.5/31

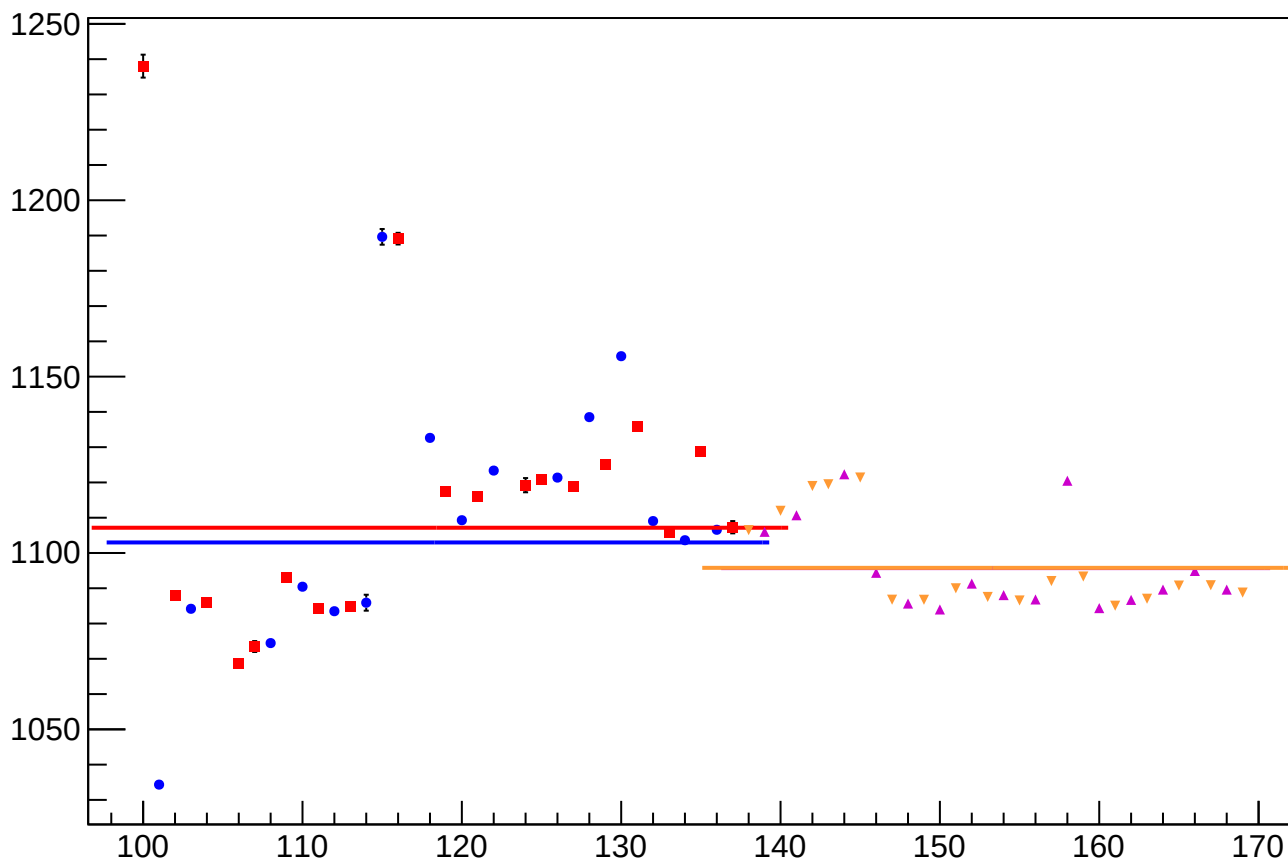
Right: 2409.773 $\pm$ 287.639 χ^2/NDF : 23.4/34

In: 2375.404 $\pm$ 247.754 χ^2/NDF : 32.2/30

Out: 1995.664 $\pm$ 240.208 χ^2/NDF : 24.5/35

All: 2179.662 $\pm$ 172.459 χ^2/NDF : 57.9/66

eigen_cor_asym_usr_rms vs Slug, Sign Corrected



Right In: 1102.988 $\pm$ 0.290 χ^2/NDF : 13223.8/15

Left Out: 1095.788 $\pm$ 0.211 χ^2/NDF : 3378.6/16

Right Out: 1107.159 $\pm$ 0.286 χ^2/NDF : 8683.4/18

Left In: 1095.712 $\pm$ 0.220 χ^2/NDF : 3311.0/14

Left: 1095.752 $\pm$ 0.152 χ^2/NDF : 6689.6/31

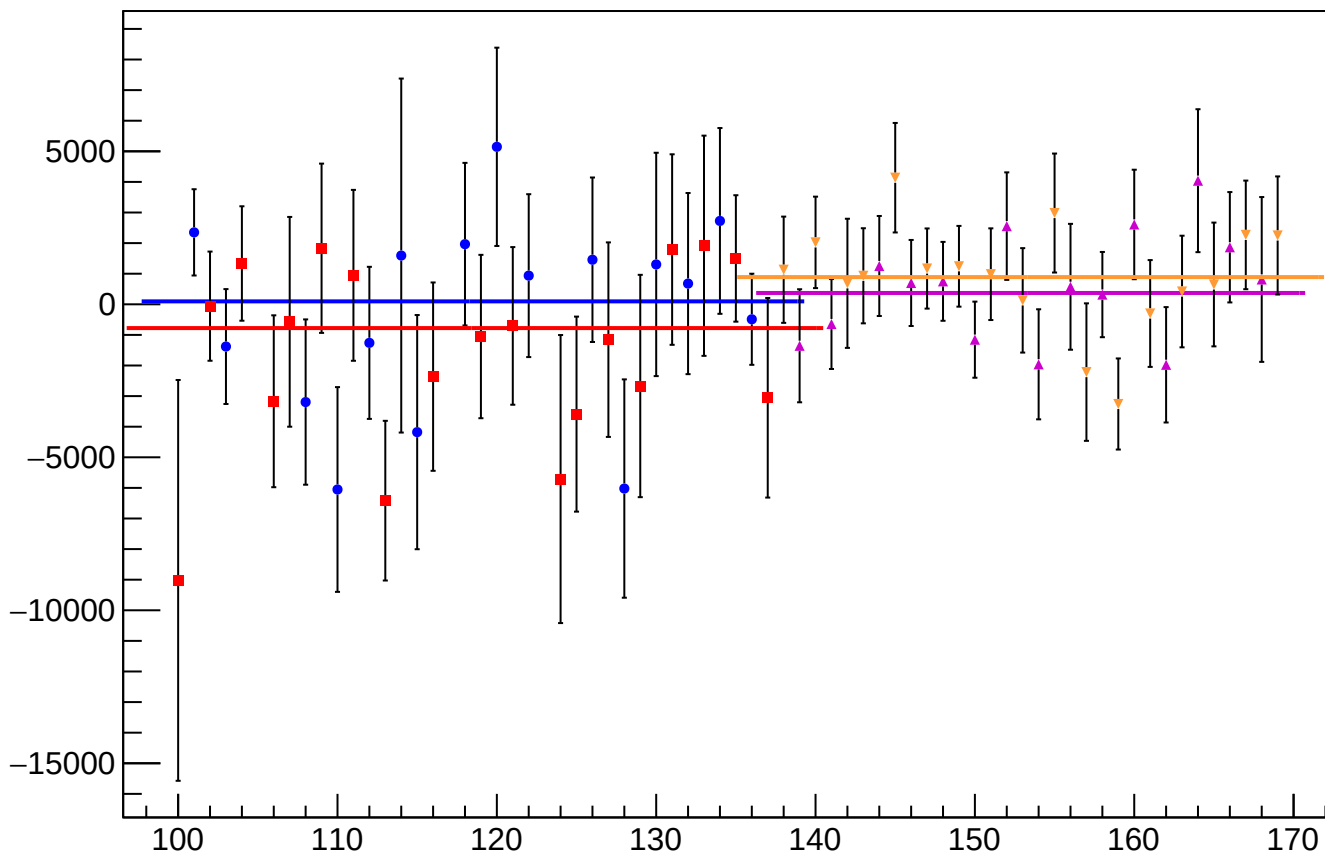
Right: 1105.104 $\pm$ 0.203 χ^2/NDF : 22012.3/34

In: 1098.371 $\pm$ 0.175 χ^2/NDF : 16934.7/30

Out: 1099.812 $\pm$ 0.170 χ^2/NDF : 13086.7/35

All: 1099.114 $\pm$ 0.122 χ^2/NDF : 30056.3/66

asym_usr_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 95.955+/-618.095 χ^2/NDF : 16.9/15

Left Out: 889.509+/-406.579 χ^2/NDF : 16.7/16

Right Out: -776.996+/-636.966 χ^2/NDF : 15.1/18

Left In: 370.705+/-426.717 χ^2/NDF : 12.8/14

Left: 642.637+/-294.357 χ^2/NDF : 30.3/31

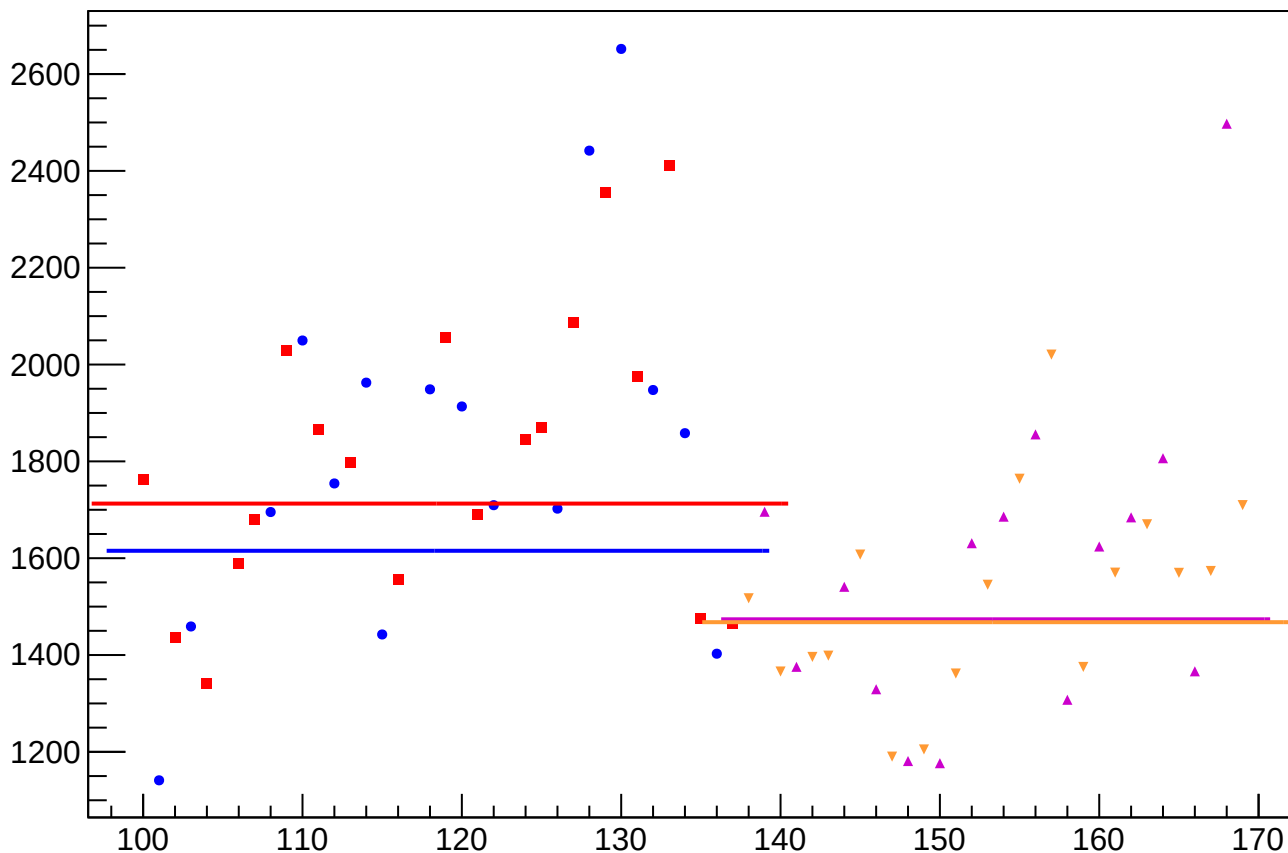
Right: -327.398+/-443.581 χ^2/NDF : 33.0/34

In: 282.022+/-351.161 χ^2/NDF : 29.9/30

Out: 407.077+/-342.713 χ^2/NDF : 36.6/35

All: 346.072+/-245.267 χ^2/NDF : 66.6/66

asym_usr_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1615.316+/-0.437 χ^2/NDF : 693630.0/15

Left Out: 1467.849+/-0.287 χ^2/NDF : 462971.7/16

Right Out: 1712.798+/-0.450 χ^2/NDF : 428065.0/18

Left In: 1473.769+/-0.302 χ^2/NDF : 796649.5/14

Left: 1470.666+/-0.208 χ^2/NDF : 1259823.0/31

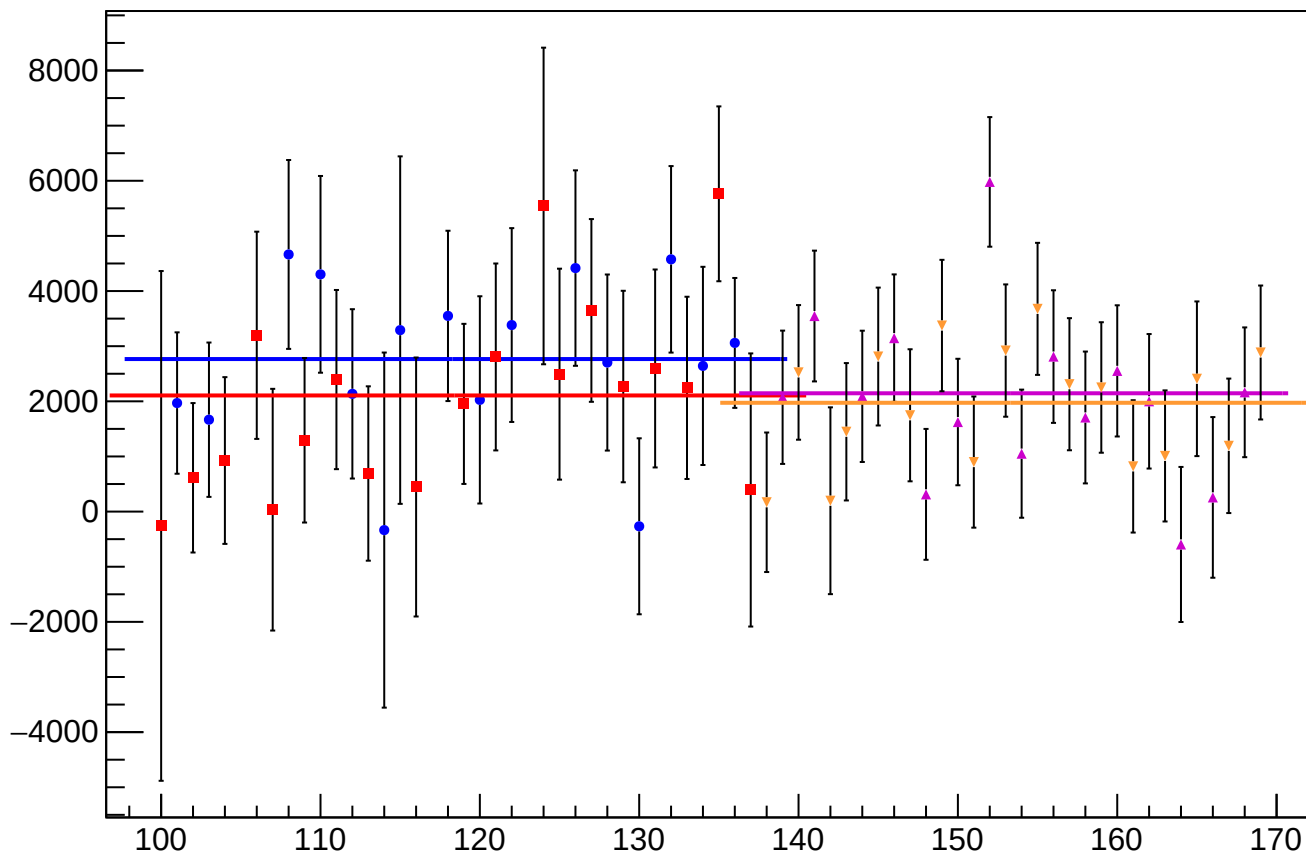
Right: 1662.591+/-0.314 χ^2/NDF : 1145820.9/34

In: 1519.457+/-0.248 χ^2/NDF : 1561310.6/30

Out: 1538.759+/-0.242 χ^2/NDF : 1101182.5/35

All: 1529.343+/-0.173 χ^2/NDF : 2665587.8/66

dit_asym_usr_mean vs Slug, Sign Corrected



Right In: 2766.657 $\pm$ 411.563 χ^2/NDF : 10.3/15

Left Out: 1973.432 $\pm$ 300.163 χ^2/NDF : 11.6/16

Right Out: 2106.358 $\pm$ 405.586 χ^2/NDF : 13.4/18

Left In: 2145.902 $\pm$ 312.307 χ^2/NDF : 22.3/14

Left: 2056.249 $\pm$ 216.413 χ^2/NDF : 34.1/31

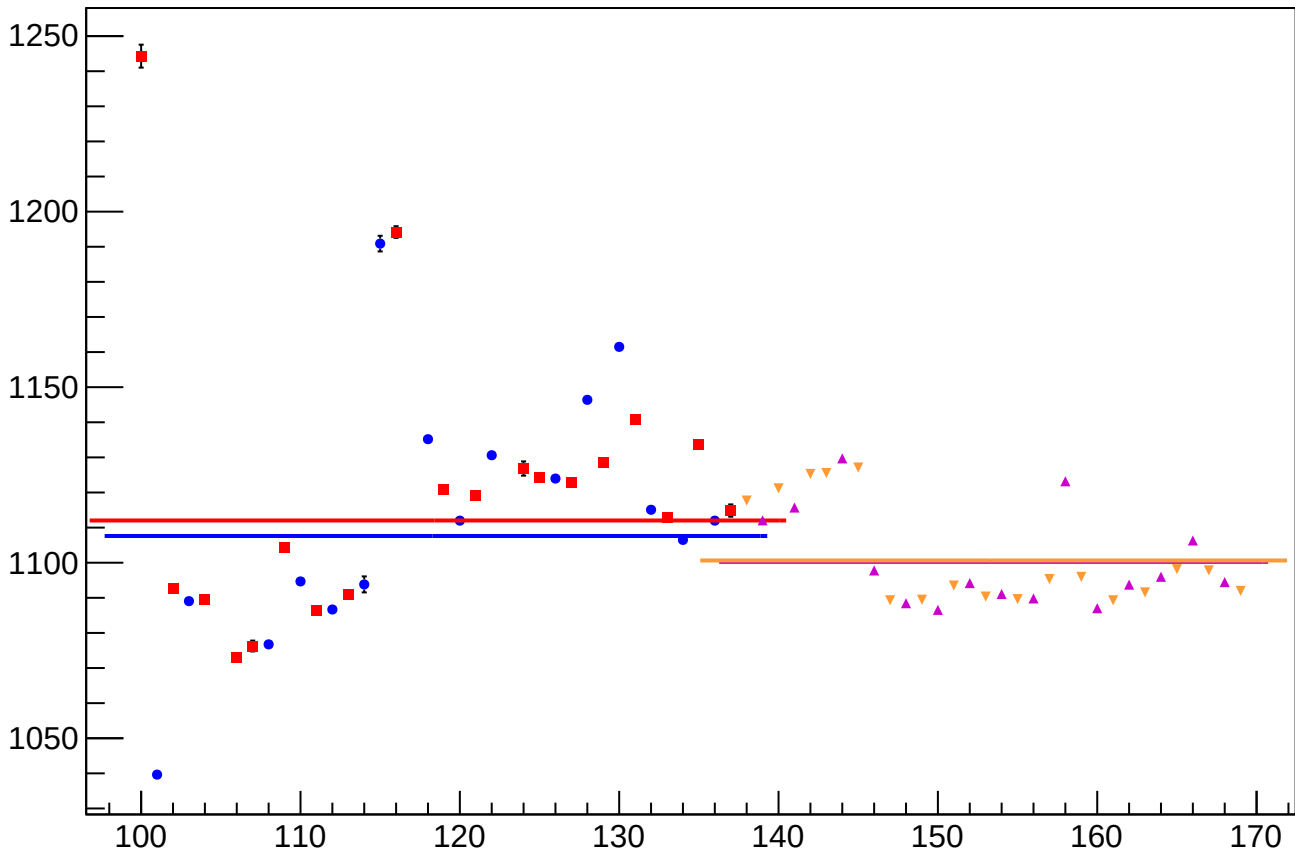
Right: 2431.678 $\pm$ 288.883 χ^2/NDF : 25.0/34

In: 2372.733 $\pm$ 248.787 χ^2/NDF : 34.1/30

Out: 2020.472 $\pm$ 241.275 χ^2/NDF : 25.1/35

All: 2191.205 $\pm$ 173.202 χ^2/NDF : 60.2/66

dit_asym_usr_rms vs Slug, Sign Corrected



Right In: 1107.613 $\pm$ 0.291 χ^2 /NDF: 13220.8/15

Left Out: 1100.639 $\pm$ 0.212 χ^2 /NDF: 4278.2/16

Right Out: 1112.029 $\pm$ 0.287 χ^2 /NDF: 8653.5/18

Left In: 1100.231 $\pm$ 0.221 χ^2 /NDF: 3716.6/14

Left: 1100.443 $\pm$ 0.153 χ^2 /NDF: 7996.6/31

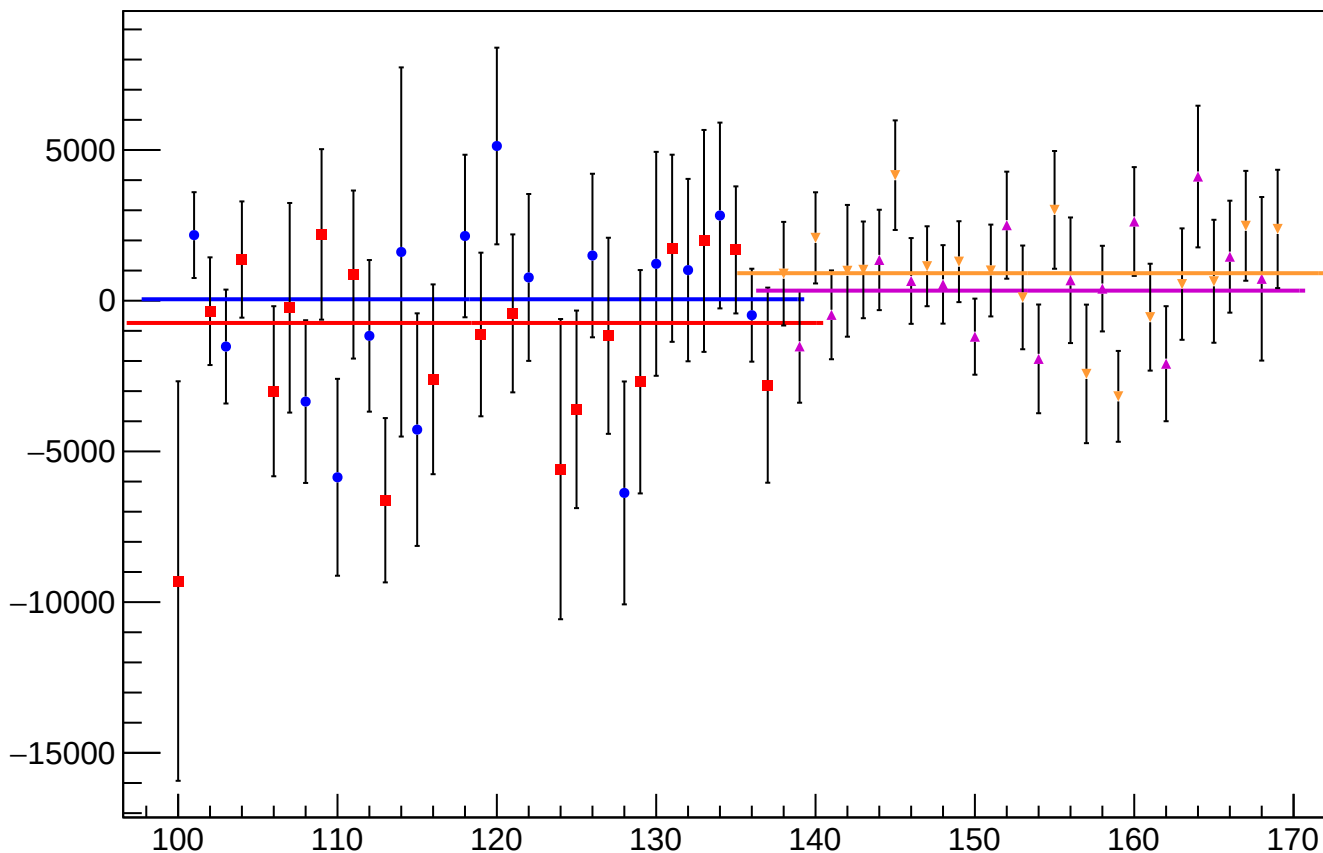
Right: 1109.854 $\pm$ 0.204 χ^2 /NDF: 21991.1/34

In: 1102.929 $\pm$ 0.176 χ^2 /NDF: 17345.8/30

Out: 1104.670 $\pm$ 0.171 χ^2 /NDF: 13950.8/35

All: 1103.826 $\pm$ 0.122 χ^2 /NDF: 31347.1/66

asym_usr_dit_correction_mean vs Slug, Sign Corrected



Right In: 47.817+/-628.060 χ^2/NDF : 16.9/15

Left Out: 912.784+/-412.650 χ^2/NDF : 16.8/16

Right Out: -738.185+/-647.795 χ^2/NDF : 14.9/18

Left In: 334.211+/-432.008 χ^2/NDF : 12.5/14

Left: 636.750+/-298.397 χ^2/NDF : 30.2/31

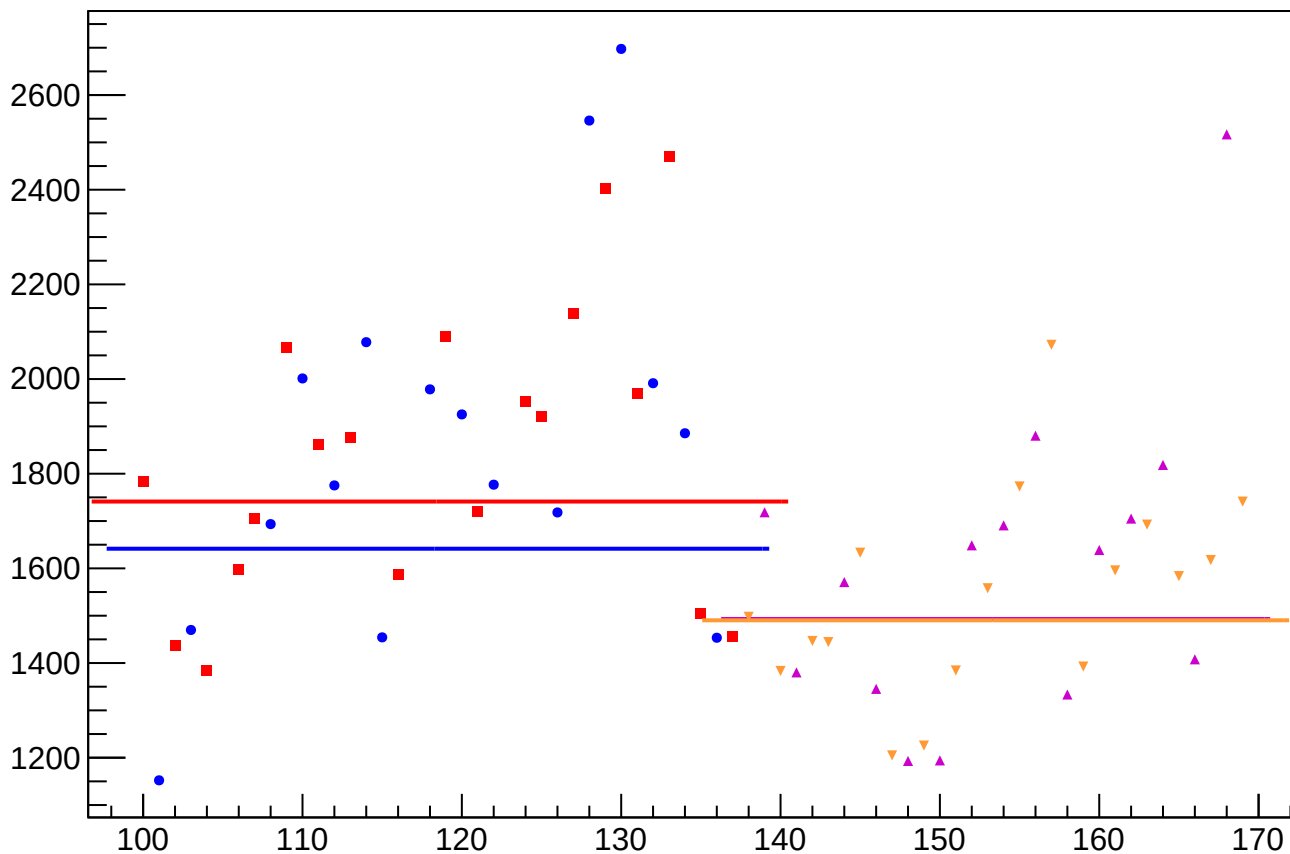
Right: -333.029+/-450.921 χ^2/NDF : 32.6/34

In: 242.229+/-355.936 χ^2/NDF : 29.5/30

Out: 436.232+/-348.036 χ^2/NDF : 36.4/35

All: 341.407+/-248.844 χ^2/NDF : 66.0/66

asym_usr_dit_correction_rms vs Slug, Sign Corrected



Right In: 1641.538 $\pm$ 0.444 χ^2 /NDF: 701311.4/15

Left Out: 1490.274 $\pm$ 0.292 χ^2 /NDF: 464295.0/16

Right Out: 1741.200 $\pm$ 0.458 χ^2 /NDF: 438336.6/18

Left In: 1493.052 $\pm$ 0.305 χ^2 /NDF: 783786.3/14

Left: 1491.599 $\pm$ 0.211 χ^2 /NDF: 1248124.5/31

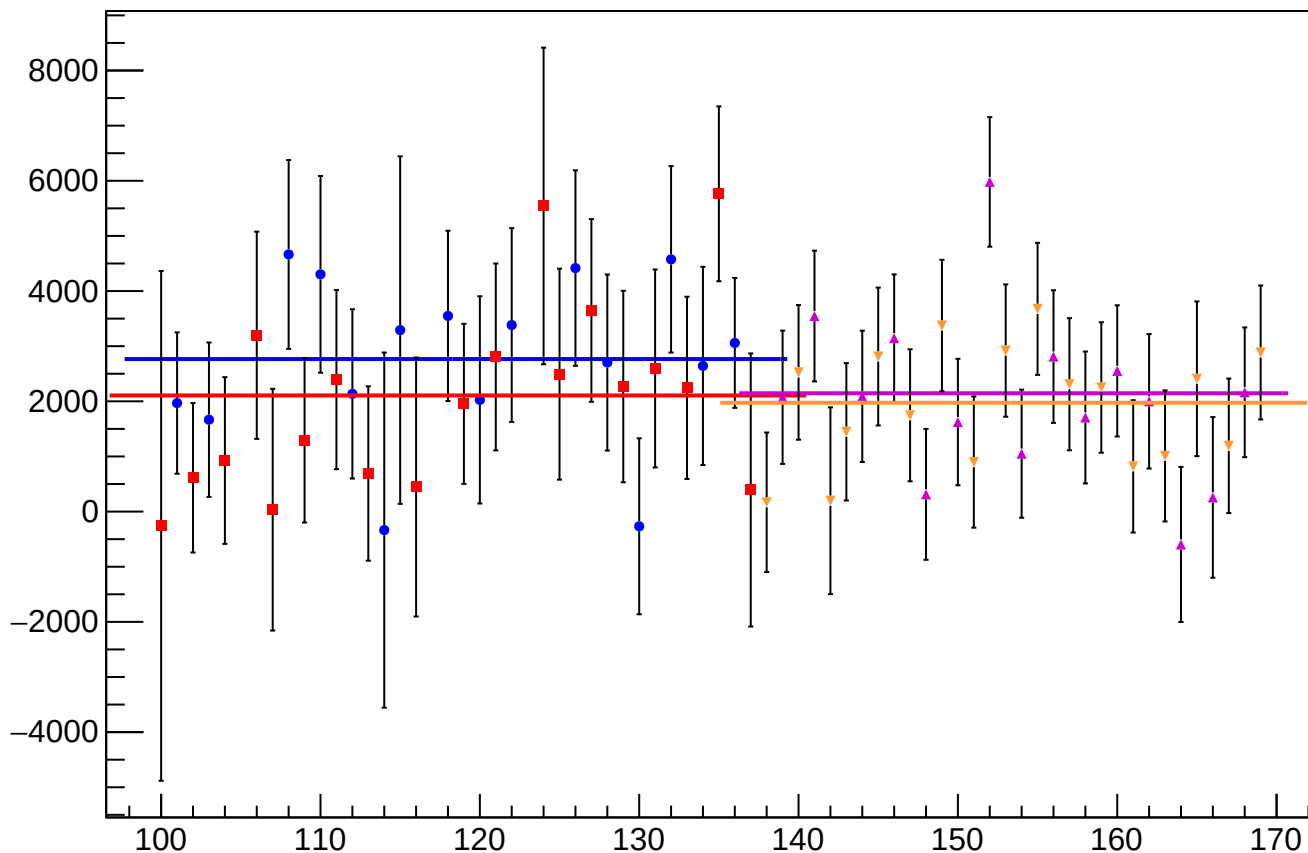
Right: 1689.828 $\pm$ 0.319 χ^2 /NDF: 1164049.3/34

In: 1540.742 $\pm$ 0.252 χ^2 /NDF: 1560982.8/30

Out: 1562.703 $\pm$ 0.246 χ^2 /NDF: 1116098.5/35

All: 1551.969 $\pm$ 0.176 χ^2 /NDF: 2680973.8/66

eigen_dit_asym_usr_mean vs Slug, Sign Corrected



Right In: 2766.656 $\pm$ 411.563 χ^2/NDF : 10.3/15

Left Out: 1973.430 $\pm$ 300.163 χ^2/NDF : 11.6/16

Right Out: 2106.360 $\pm$ 405.586 χ^2/NDF : 13.4/18

Left In: 2145.903 $\pm$ 312.307 χ^2/NDF : 22.3/14

Left: 2056.248 $\pm$ 216.413 χ^2/NDF : 34.1/31

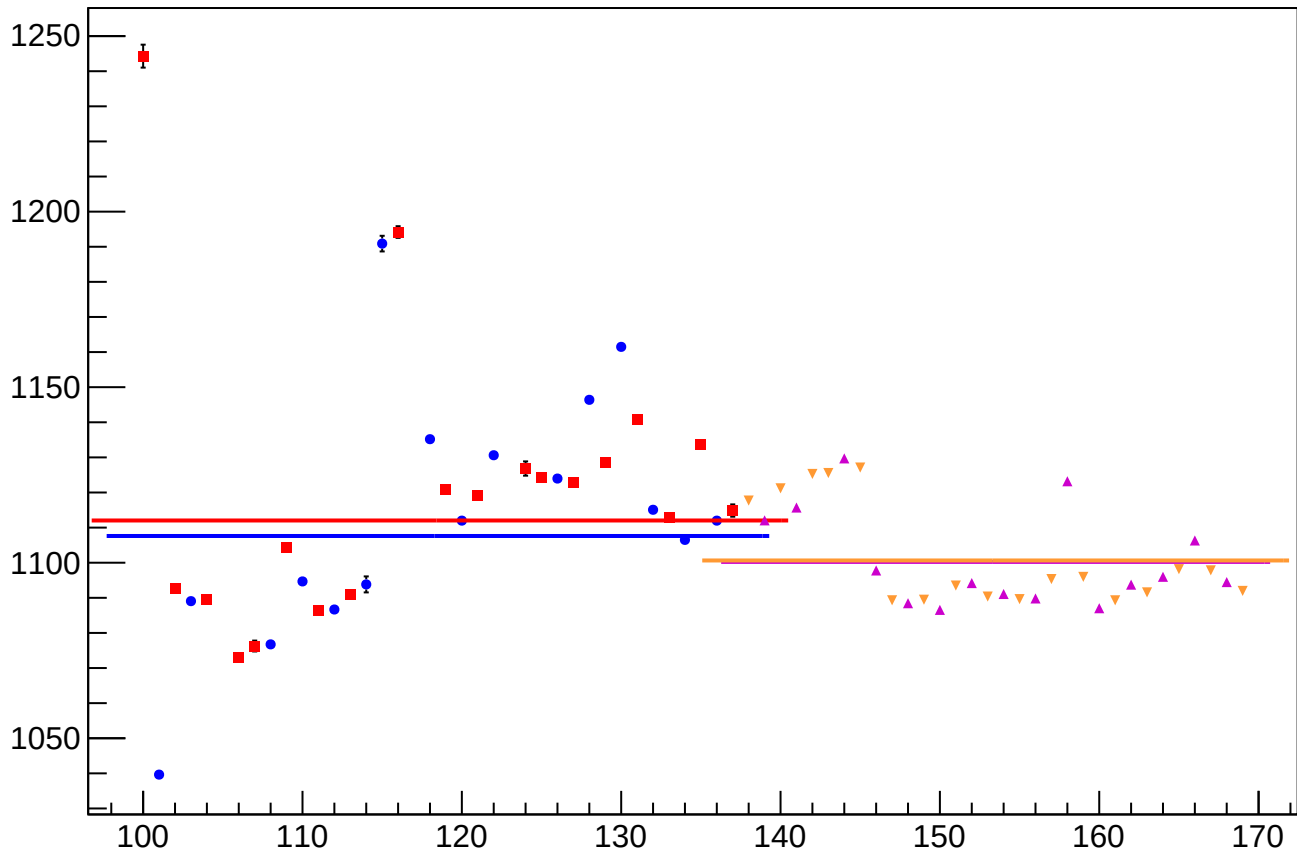
Right: 2431.678 $\pm$ 288.882 χ^2/NDF : 25.0/34

In: 2372.734 $\pm$ 248.787 χ^2/NDF : 34.1/30

Out: 2020.472 $\pm$ 241.275 χ^2/NDF : 25.1/35

All: 2191.204 $\pm$ 173.202 χ^2/NDF : 60.2/66

eigen_dit_asym_usr_rms vs Slug, Sign Corrected



Right In: 1107.613 $\pm$ 0.291 χ^2/NDF : 13220.7/15

Left Out: 1100.639 $\pm$ 0.212 χ^2/NDF : 4278.2/16

Right Out: 1112.029 $\pm$ 0.287 χ^2/NDF : 8653.5/18

Left In: 1100.231 $\pm$ 0.221 χ^2/NDF : 3716.6/14

Left: 1100.443 $\pm$ 0.153 χ^2/NDF : 7996.6/31

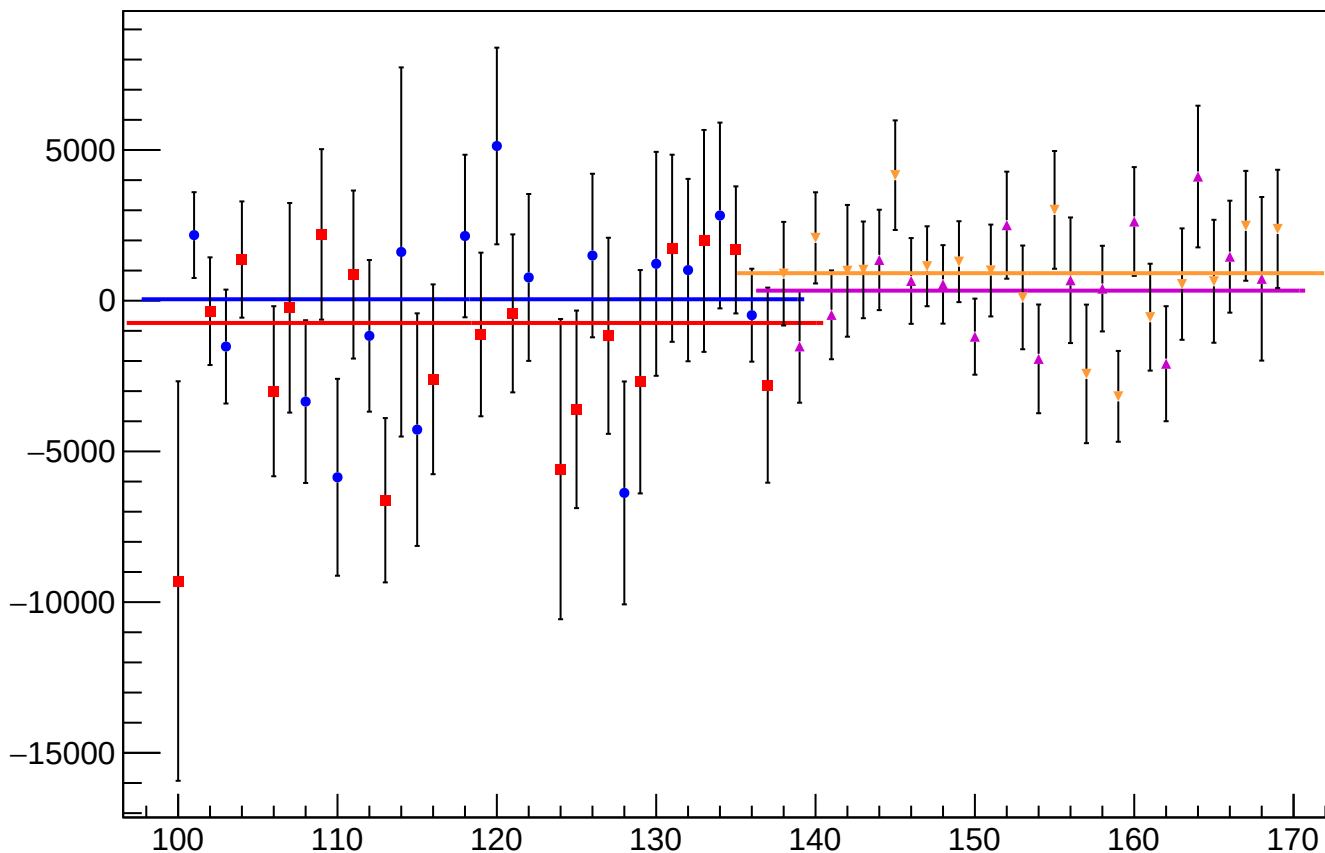
Right: 1109.853 $\pm$ 0.204 χ^2/NDF : 21991.0/34

In: 1102.929 $\pm$ 0.176 χ^2/NDF : 17345.6/30

Out: 1104.670 $\pm$ 0.171 χ^2/NDF : 13950.8/35

All: 1103.826 $\pm$ 0.122 χ^2/NDF : 31346.9/66

asym_usr_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 47.813+/-628.059 χ^2/NDF : 16.9/15

Left Out: 912.783+/-412.651 χ^2/NDF : 16.8/16

Right Out: -738.188+/-647.795 χ^2/NDF : 14.9/18

Left In: 334.212+/-432.009 χ^2/NDF : 12.5/14

Left: 636.750+/-298.397 χ^2/NDF : 30.2/31

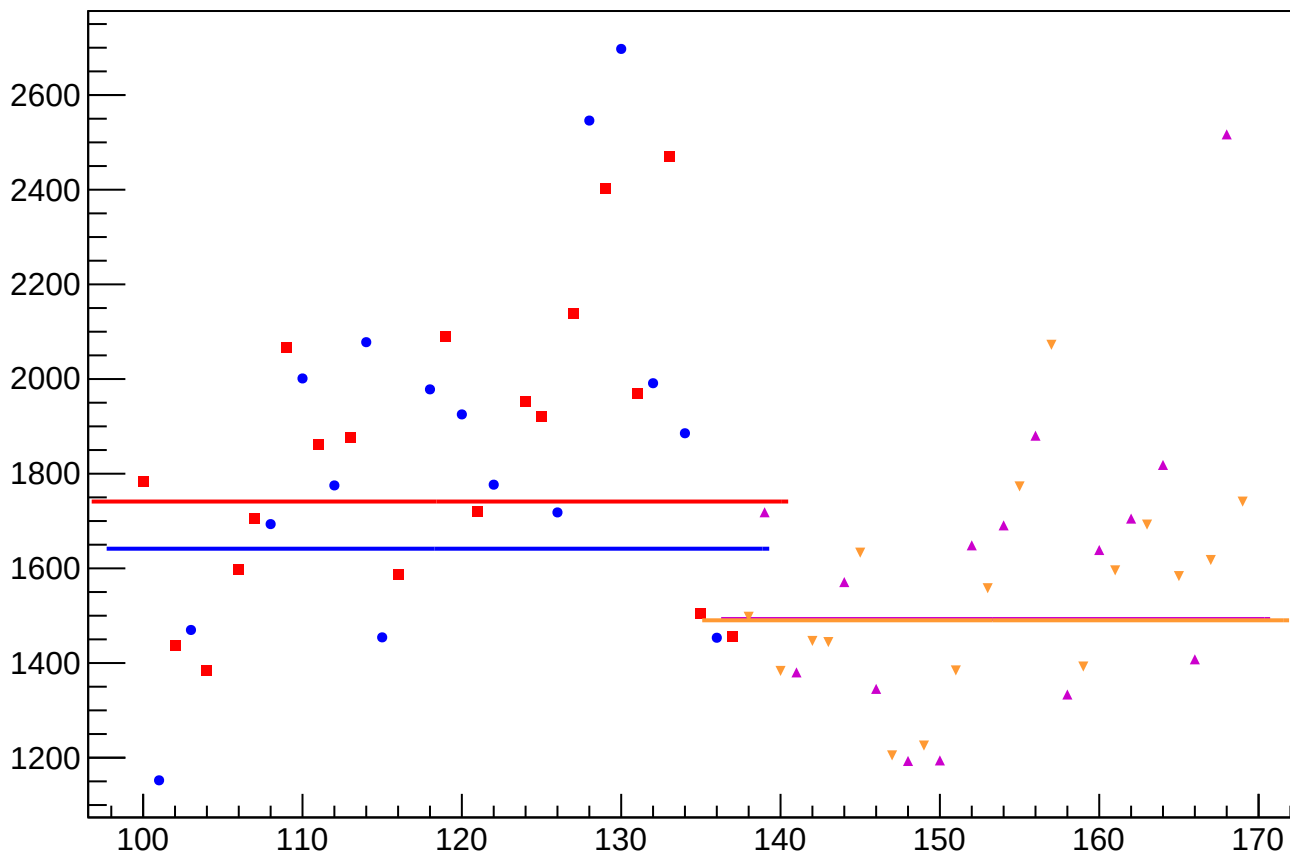
Right: -333.032+/-450.921 χ^2/NDF : 32.6/34

In: 242.227+/-355.936 χ^2/NDF : 29.5/30

Out: 436.227+/-348.036 χ^2/NDF : 36.4/35

All: 341.404+/-248.845 χ^2/NDF : 66.0/66

asym_usr_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1641.536+/-0.444 χ^2/NDF : 701299.1/15

Left Out: 1490.277+/-0.292 χ^2/NDF : 464299.3/16

Right Out: 1741.199+/-0.458 χ^2/NDF : 438324.1/18

Left In: 1493.055+/-0.305 χ^2/NDF : 783792.0/14

Left: 1491.603+/-0.211 χ^2/NDF : 1248134.6/31

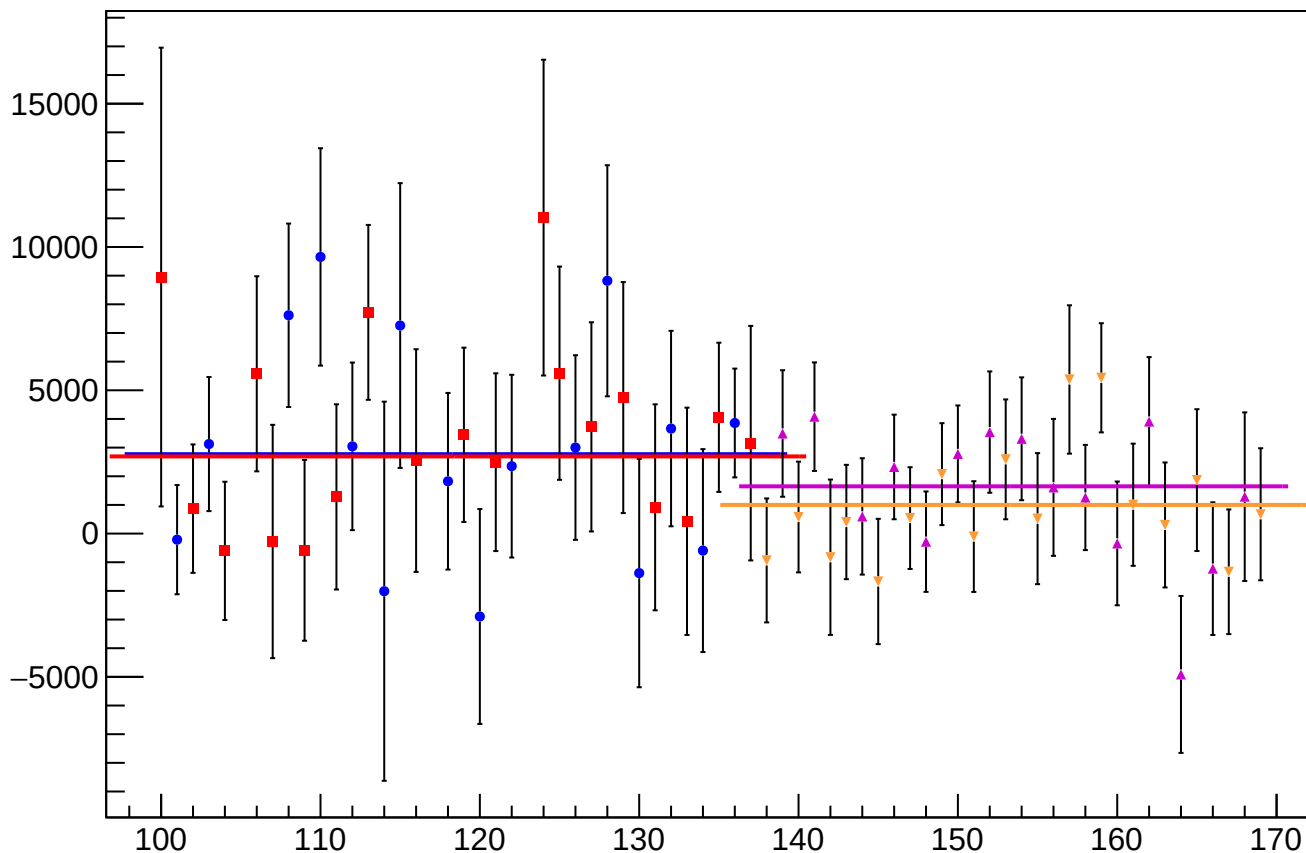
Right: 1689.826+/-0.319 χ^2/NDF : 1164025.0/34

In: 1540.744+/-0.252 χ^2/NDF : 1560970.5/30

Out: 1562.706+/-0.246 χ^2/NDF : 1116082.4/35

All: 1551.971+/-0.176 χ^2/NDF : 2680945.5/66

asym_usr_mean vs Slug, Sign Corrected



Right In: 2769.952 $\pm$ 757.109 χ^2 /NDF: 16.4/15

Left Out: 1000.616 $\pm$ 511.738 χ^2 /NDF:13.9/16

Right Out: 2692.625 $\pm$ 765.754 χ^2 /NDF: 12.5/18

Left In: 1648.398 $\pm$ 537.383 χ^2 /NDF:15.0/14

Left: 1308.682 $\pm$ 370.588 χ^2 /NDF: 29.7/31

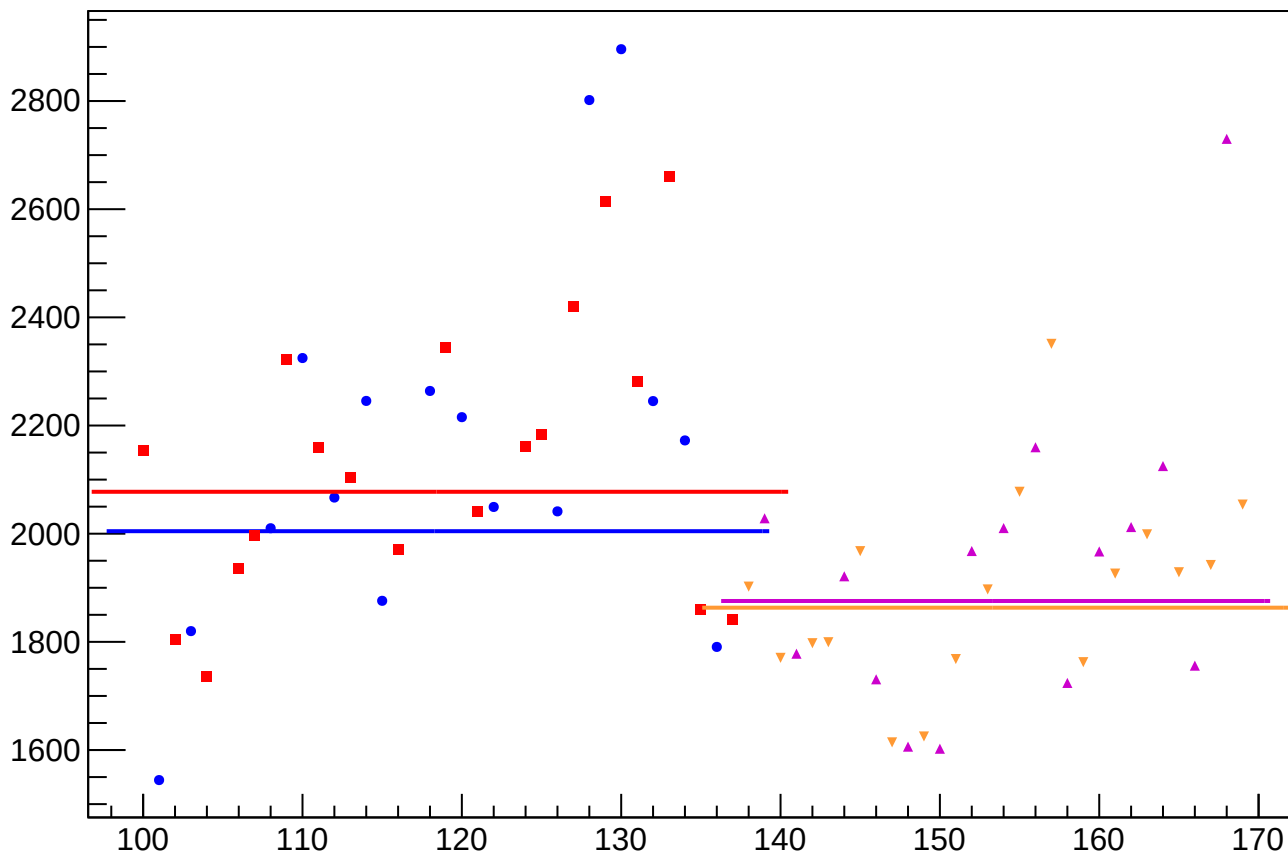
Right: 2731.727 $\pm$ 538.387 χ^2 /NDF: 29.0/34

In: 2024.134 $\pm$ 438.218 χ^2 /NDF:32.9/30

Out: 1522.979 $\pm$ 425.475 χ^2 /NDF:29.9/35

All: 1766.164 $\pm$ 305.262 χ^2 /NDF: 63.4/66

asym_usr_rms vs Slug, Sign Corrected



Right In: 2004.635+/-0.535 χ^2/NDF : 387567.3/15

Left Out: 1863.195+/-0.362 χ^2/NDF : 215083.8/16

Right Out: 2077.500+/-0.541 χ^2/NDF : 230482.0/18

Left In: 1875.561+/-0.380 χ^2/NDF : 383241.7/14

Left: 1869.076+/-0.262 χ^2/NDF : 598880.9/31

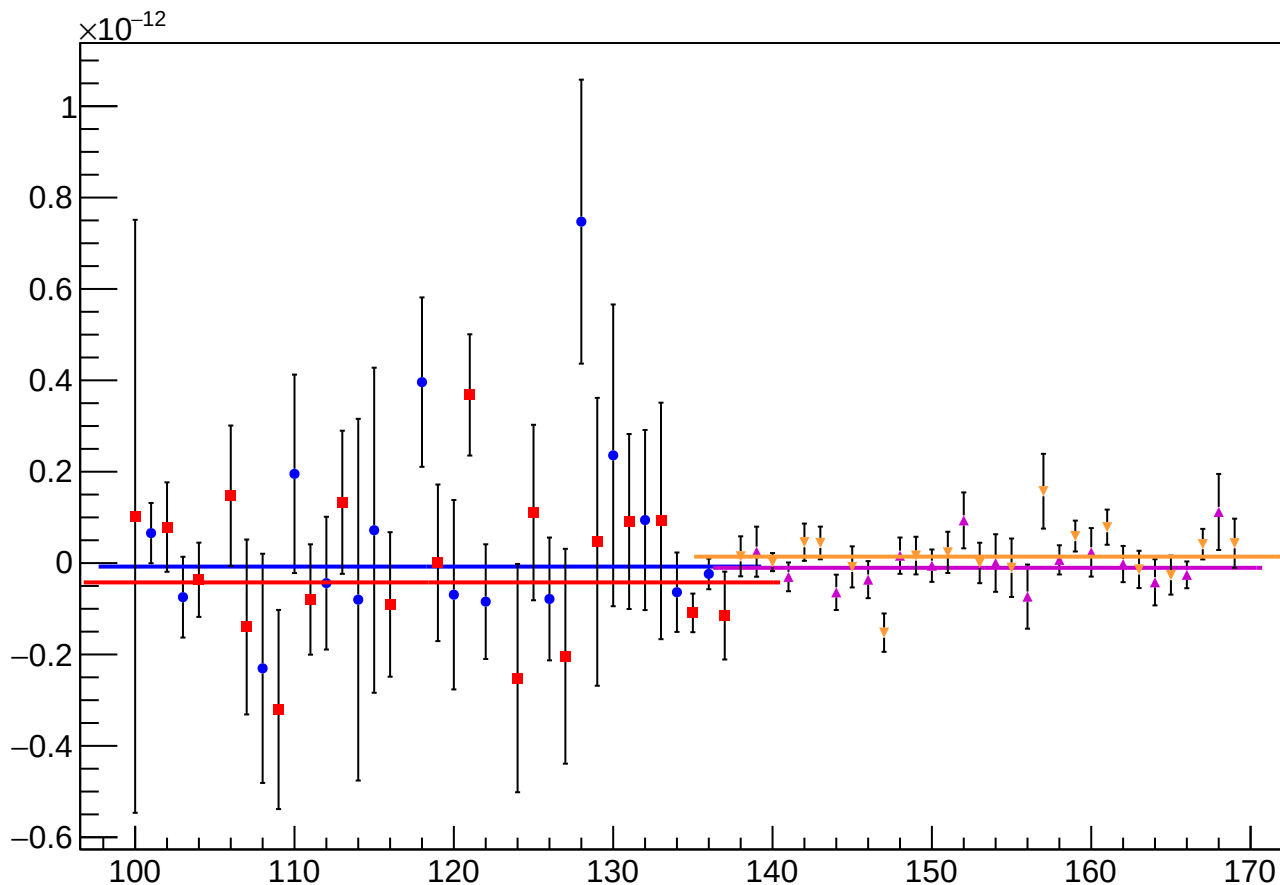
Right: 2040.654+/-0.381 χ^2/NDF : 627206.5/34

In: 1918.803+/-0.310 χ^2/NDF : 809463.9/30

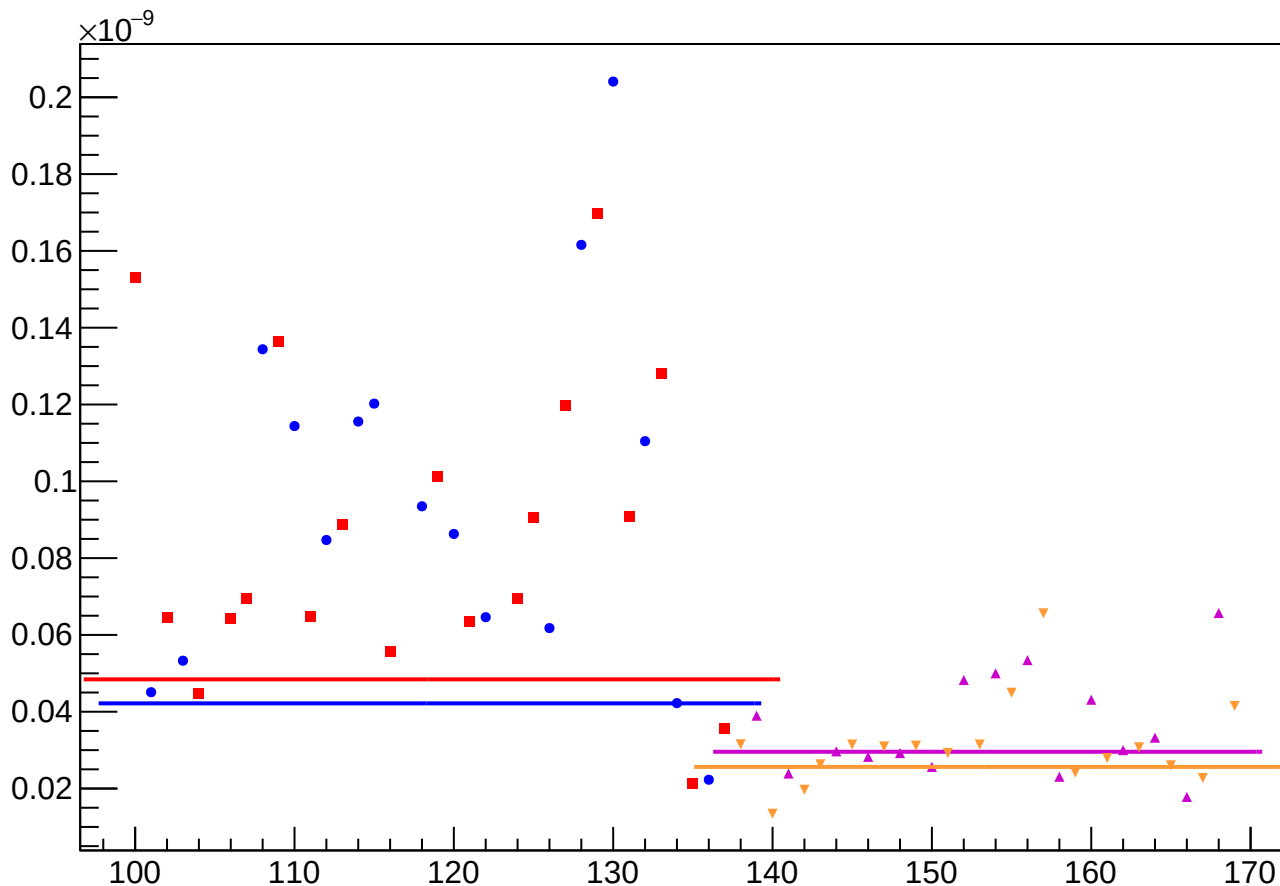
Out: 1929.356+/-0.301 χ^2/NDF : 553850.9/35

All: 1924.235+/-0.216 χ^2/NDF : 1363911.9/66

asym_usr_reg_vs_cor_diff_mean vs Slug, Sign Corrected



asym_usr_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2933545.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :1878752.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2604483.4/18

Left In: 0.000+/-0.000 χ^2/NDF :1700894.9/14

Left: 0.000+/-0.000 χ^2/NDF : 3730773.8/31

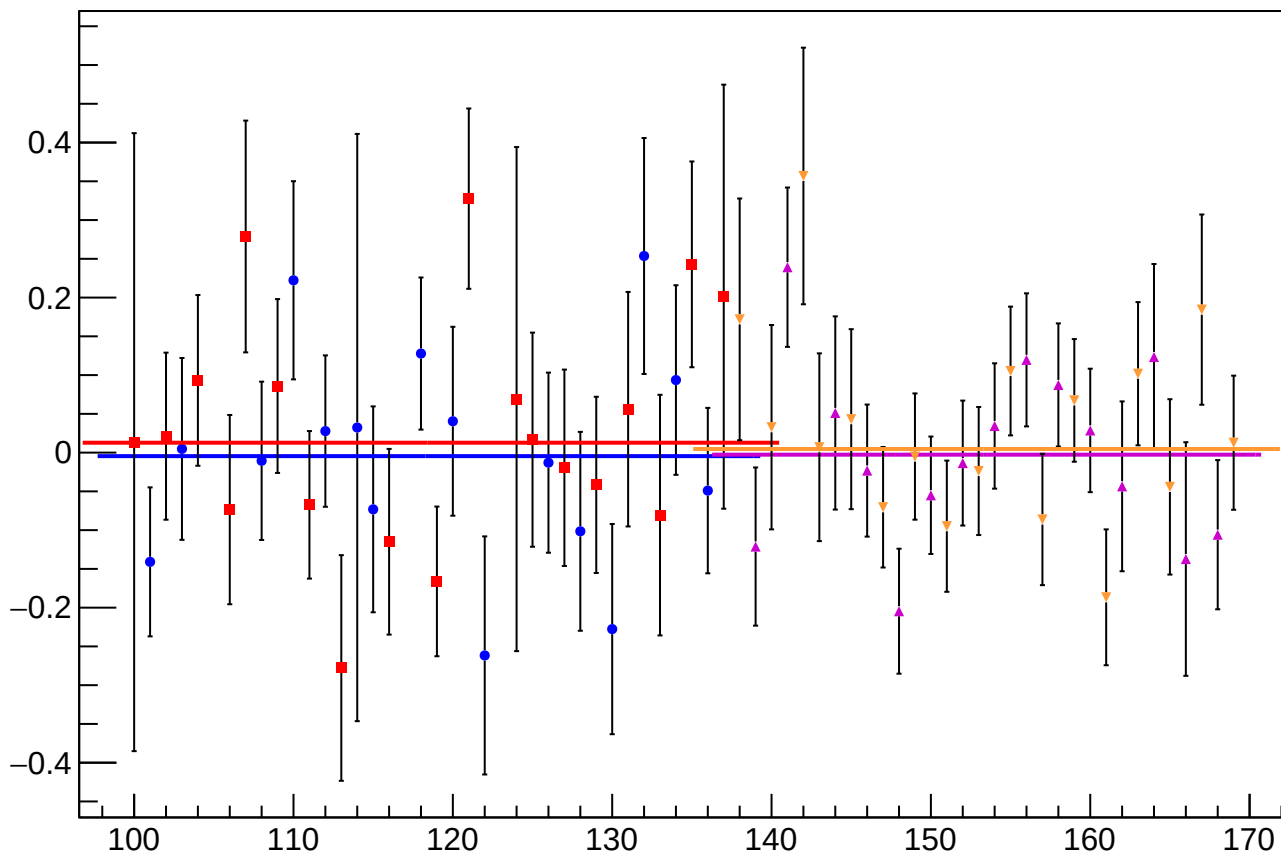
Right: 0.000+/-0.000 χ^2/NDF : 5597279.7/34

In: 0.000+/-0.000 χ^2/NDF :5083142.6/30

Out: 0.000+/-0.000 χ^2/NDF :5755826.2/35

All: 0.000+/-0.000 χ^2/NDF : 10986802.1/66

asym_usr_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 χ^2/NDF : 17.3/15

Left Out: 0.005 ± 0.023 χ^2/NDF : 19.7/16

Right Out: 0.013 ± 0.030 χ^2/NDF : 25.5/18

Left In: -0.003 ± 0.024 χ^2/NDF : 20.8/14

Left: 0.001 ± 0.017 χ^2/NDF : 40.6/31

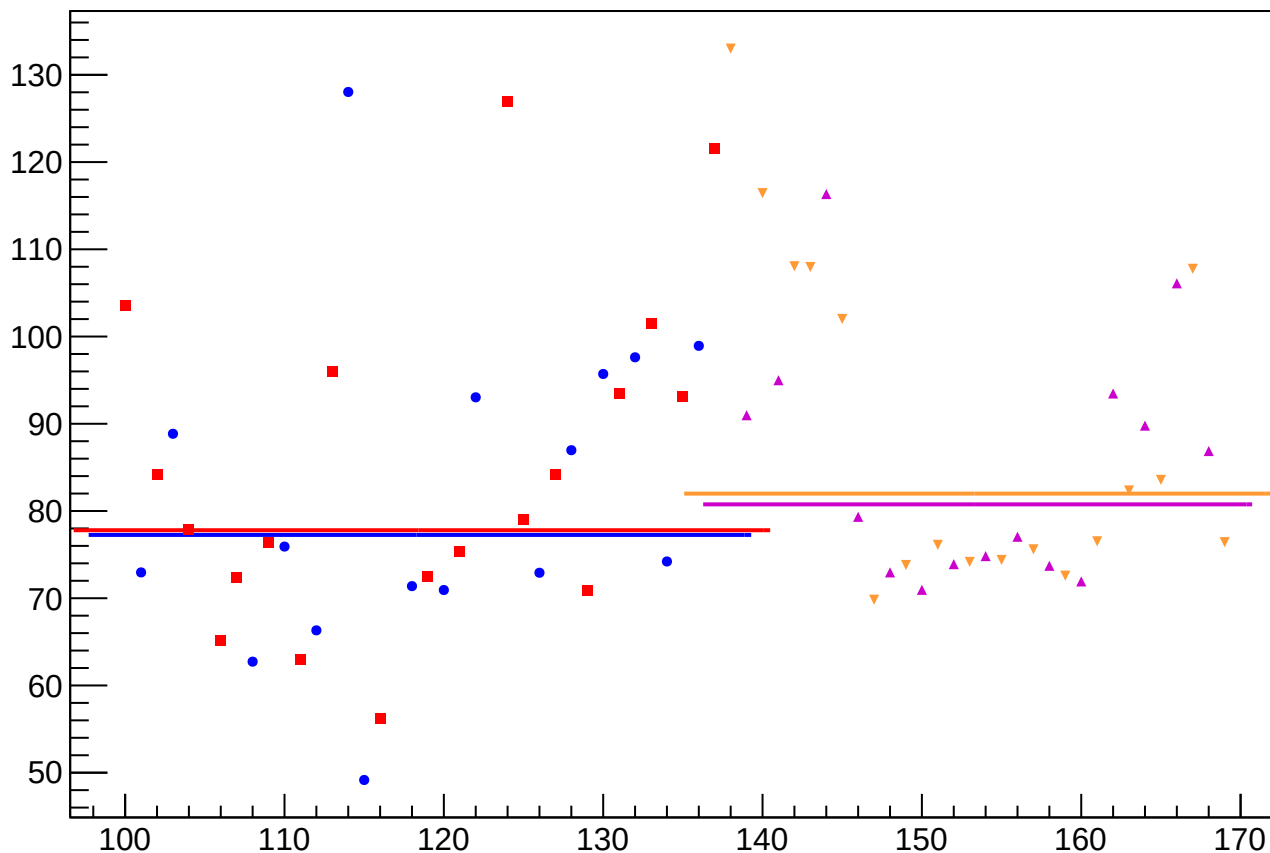
Right: 0.004 ± 0.021 χ^2/NDF : 42.9/34

In: -0.003 ± 0.019 χ^2/NDF : 38.1/30

Out: 0.008 ± 0.018 χ^2/NDF : 45.3/35

All: 0.002 ± 0.013 χ^2/NDF : 83.5/66

asym_usr_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 77.259+/-0.021 χ^2/NDF : 419290.2/15

Left Out: 81.994+/-0.016 χ^2/NDF : 809703.1/16

Right Out: 77.796+/-0.021 χ^2/NDF : 396477.1/18

Left In: 80.762+/-0.017 χ^2/NDF : 446297.2/14

Left: 81.389+/-0.012 χ^2/NDF : 1258757.3/31

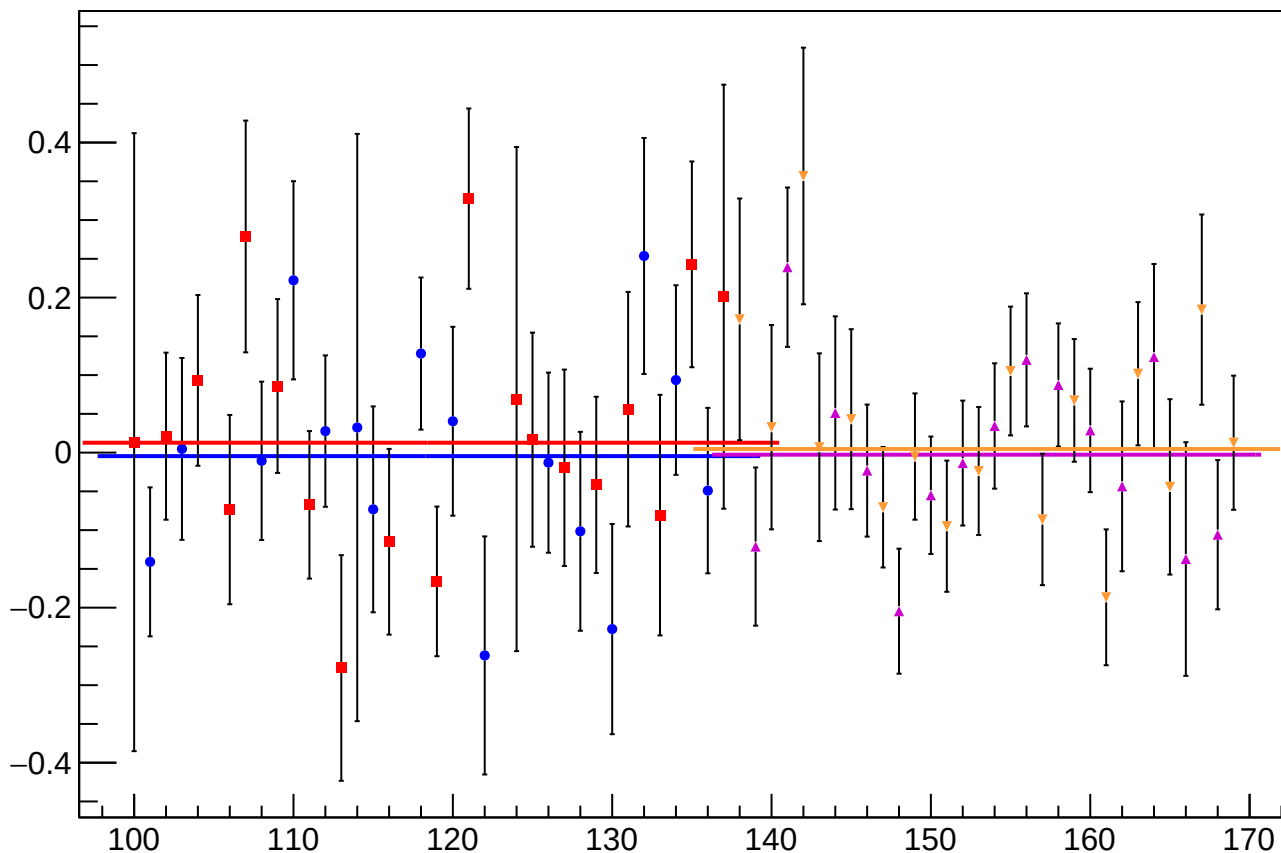
Right: 77.530+/-0.015 χ^2/NDF : 816090.7/34

In: 79.420+/-0.013 χ^2/NDF : 882358.2/30

Out: 80.400+/-0.013 χ^2/NDF : 1230920.7/35

All: 79.918+/-0.009 χ^2/NDF : 2116096.8/66

asym_usr_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 χ^2/NDF : 17.3/15

Left Out: 0.005 ± 0.023 χ^2/NDF : 19.7/16

Right Out: 0.013 ± 0.030 χ^2/NDF : 25.5/18

Left In: -0.003 ± 0.024 χ^2/NDF : 20.8/14

Left: 0.001 ± 0.017 χ^2/NDF : 40.6/31

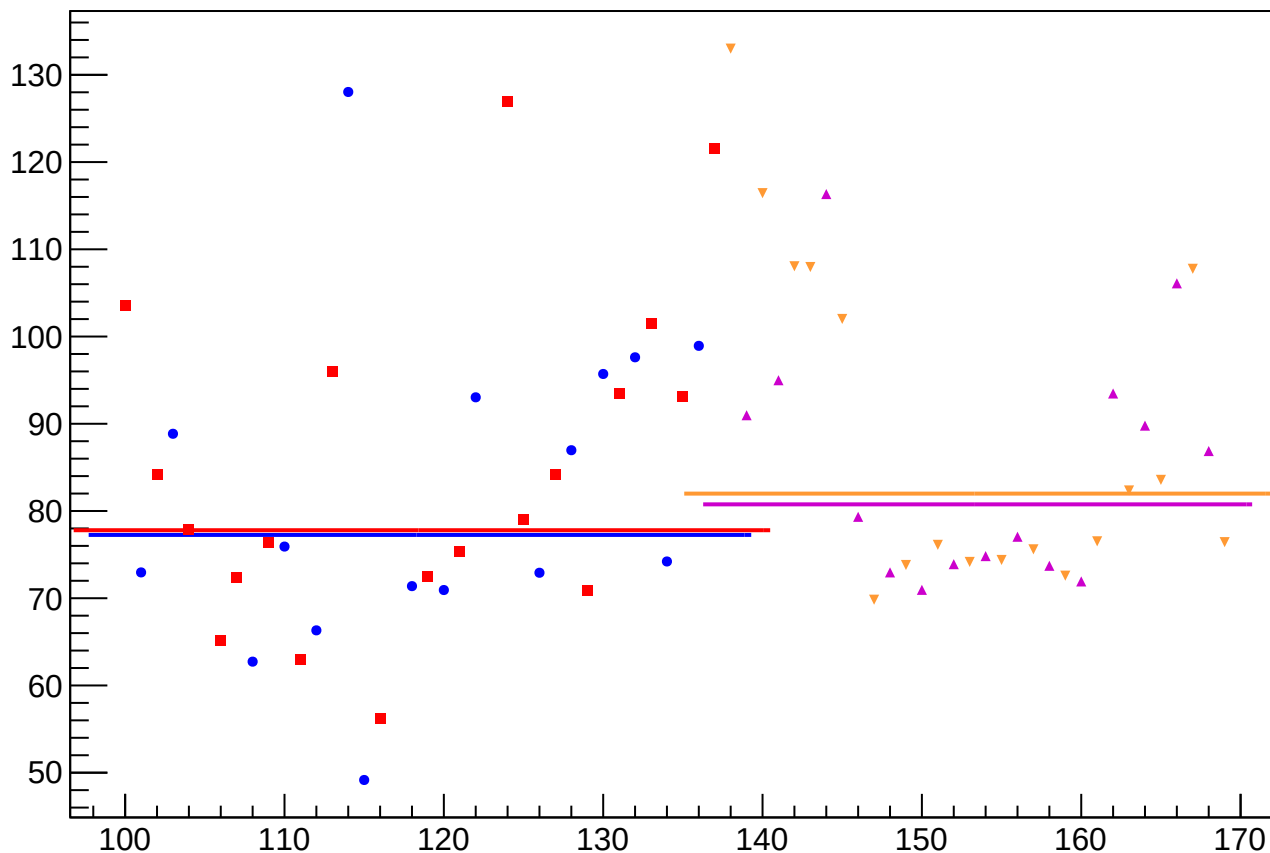
Right: 0.004 ± 0.021 χ^2/NDF : 42.9/34

In: -0.003 ± 0.019 χ^2/NDF : 38.1/30

Out: 0.008 ± 0.018 χ^2/NDF : 45.3/35

All: 0.002 ± 0.013 χ^2/NDF : 83.5/66

asym_usr_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 77.259 $\pm$ 0.021 χ^2/NDF : 419290.2/15

Left Out: 81.994 $\pm$ 0.016 χ^2/NDF :809703.1/16

Right Out: 77.796 $\pm$ 0.021 χ^2/NDF : 396477.1/18

Left In: 80.762 $\pm$ 0.017 χ^2/NDF :446297.2/14

Left: 81.389 $\pm$ 0.012 χ^2/NDF : 1258757.3/31

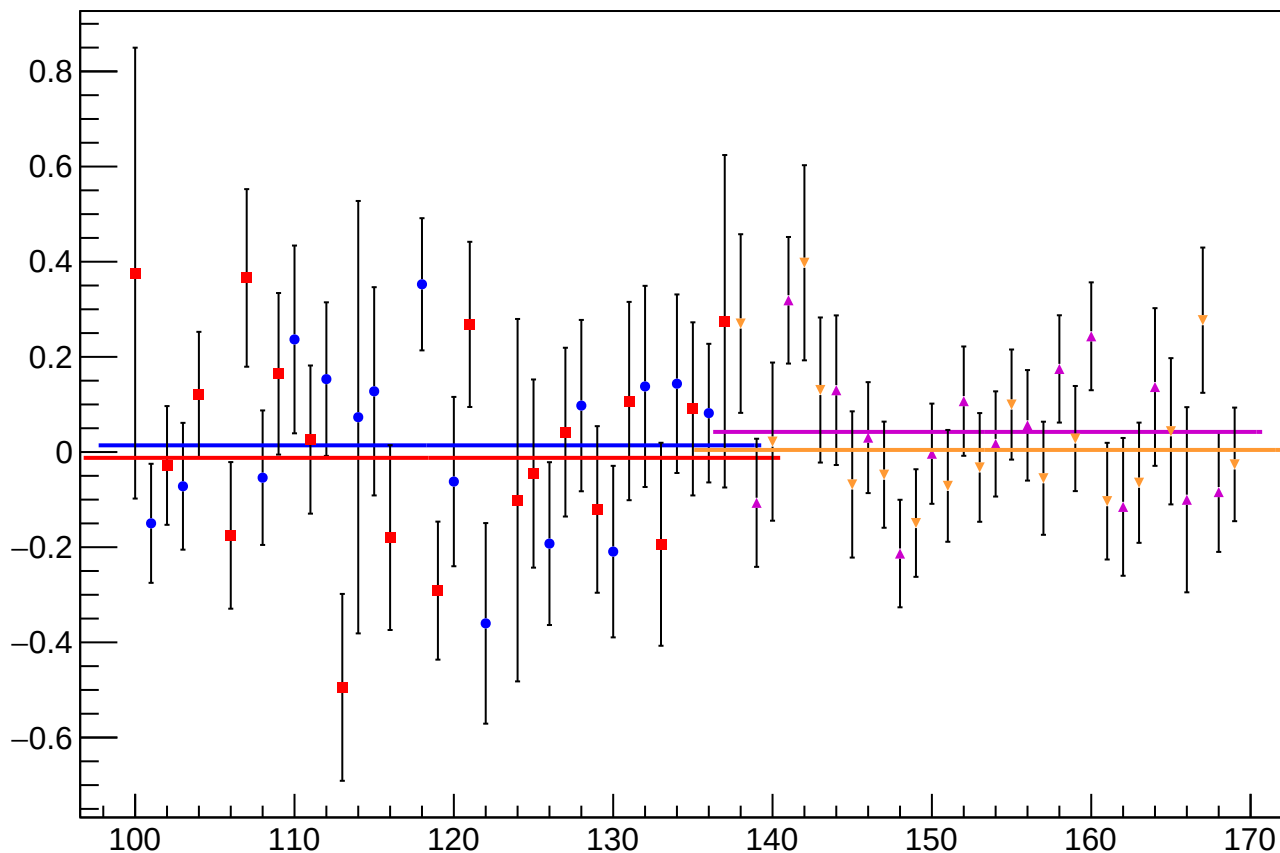
Right: 77.530 $\pm$ 0.015 χ^2/NDF : 816090.7/34

In: 79.420 $\pm$ 0.013 χ^2/NDF :882358.2/30

Out: 80.400 $\pm$ 0.013 χ^2/NDF :1230920.7/35

All: 79.918 $\pm$ 0.009 χ^2/NDF : 2116096.8/66

asym_usr_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 ± 0.042 $\chi^2/\text{NDF}: 18.2/15$

Left Out: 0.004 ± 0.032 $\chi^2/\text{NDF}: 14.5/16$

Right Out: -0.012 ± 0.041 $\chi^2/\text{NDF}: 23.8/18$

Left In: 0.042 ± 0.032 $\chi^2/\text{NDF}: 19.1/14$

Left: 0.023 ± 0.023 $\chi^2/\text{NDF}: 34.4/31$

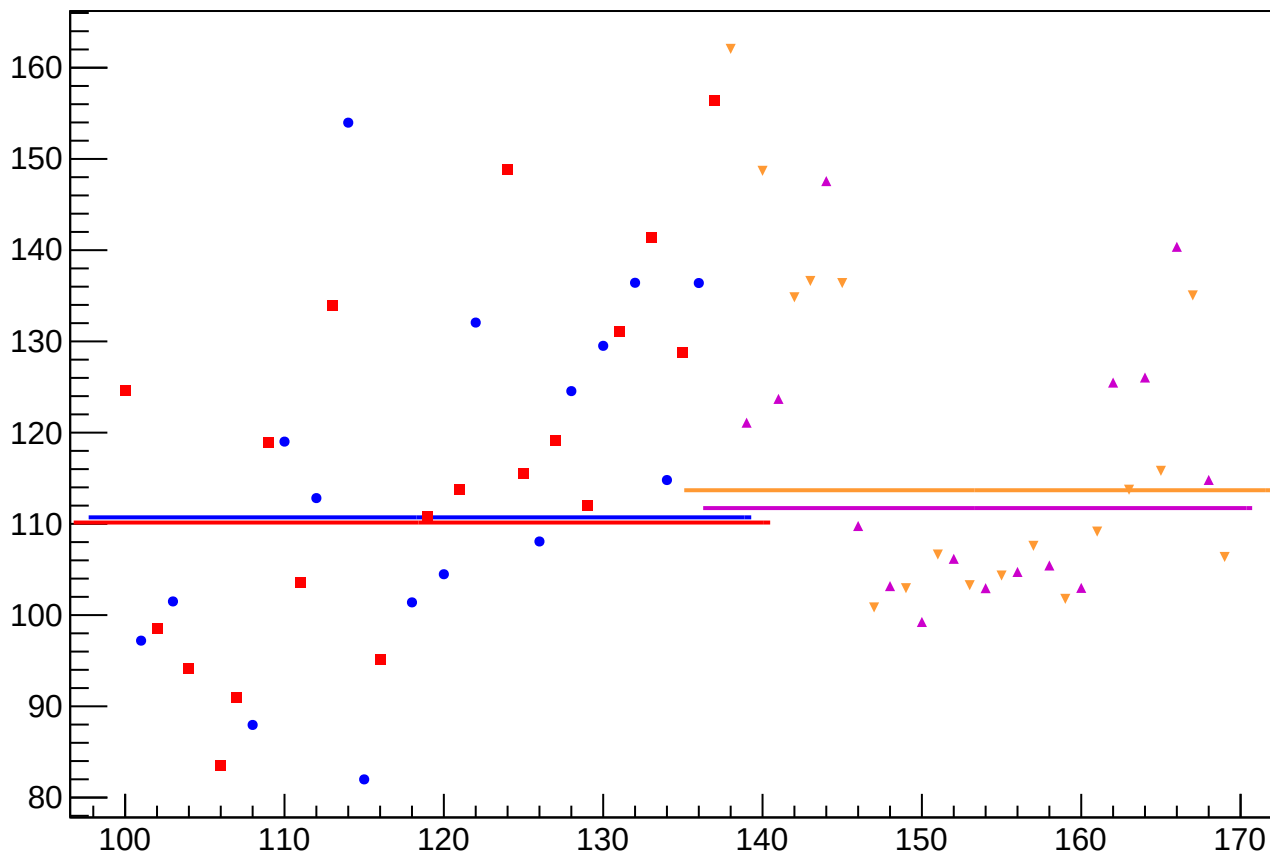
Right: 0.001 ± 0.030 $\chi^2/\text{NDF}: 42.1/34$

In: 0.032 ± 0.026 $\chi^2/\text{NDF}: 37.6/30$

Out: -0.002 ± 0.025 $\chi^2/\text{NDF}: 38.4/35$

All: 0.015 ± 0.018 $\chi^2/\text{NDF}: 76.9/66$

asym_usr_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 110.714 $\pm$ 0.030 χ^2 /NDF: 299972.8/15

Left Out: 113.686 $\pm$ 0.022 χ^2 /NDF: 491484.2/16

Right Out: 110.145 $\pm$ 0.029 χ^2 /NDF: 326726.5/18

Left In: 111.728 $\pm$ 0.023 χ^2 /NDF: 290134.1/14

Left: 112.726 $\pm$ 0.016 χ^2 /NDF: 785351.8/31

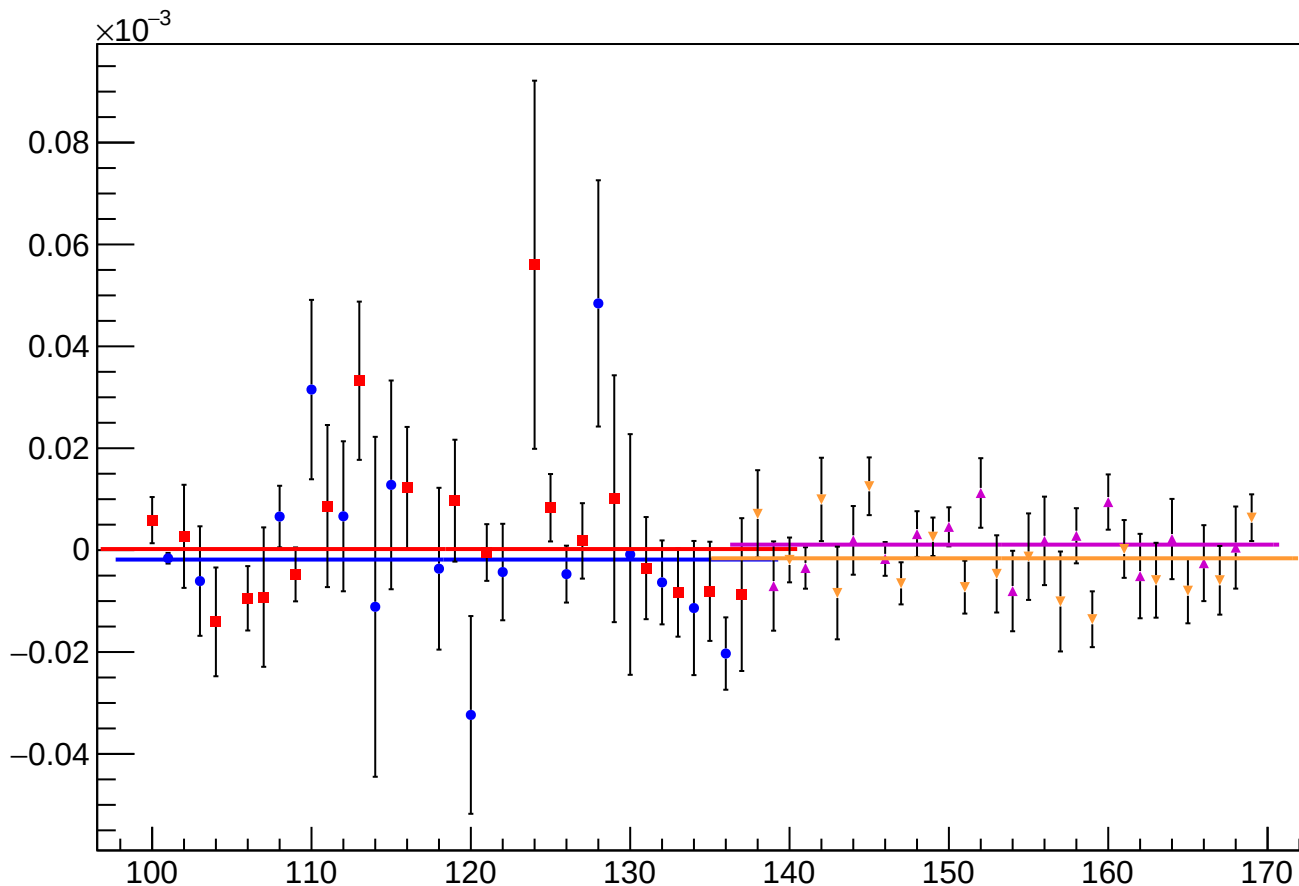
Right: 110.423 $\pm$ 0.021 χ^2 /NDF: 626885.1/34

In: 111.354 $\pm$ 0.018 χ^2 /NDF: 590832.9/30

Out: 112.372 $\pm$ 0.018 χ^2 /NDF: 827453.5/35

All: 111.873 $\pm$ 0.013 χ^2 /NDF: 1419889.5/66

asym_usr_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 21.4/15

Left Out: -0.000+/-0.000 χ^2 /NDF:24.2/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 19.9/18

Left In: 0.000+/-0.000 χ^2 /NDF:10.7/14

Left: -0.000+/-0.000 χ^2 /NDF: 36.8/31

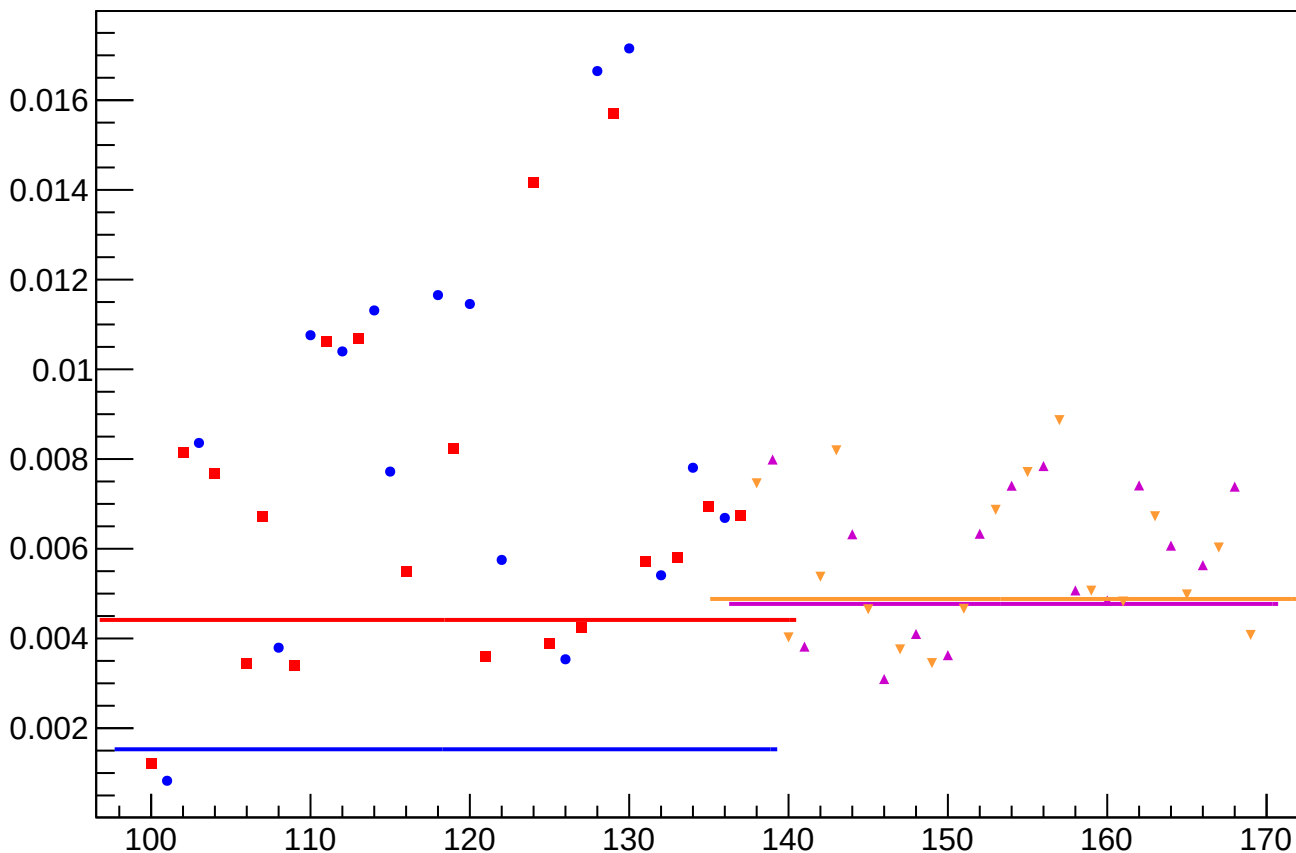
Right: -0.000+/-0.000 χ^2 /NDF: 42.2/34

In: -0.000+/-0.000 χ^2 /NDF:35.0/30

Out: -0.000+/-0.000 χ^2 /NDF:44.7/35

All: -0.000+/-0.000 χ^2 /NDF: 79.7/66

asym_usr_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 9222940.9/15

Left Out: 0.005+/-0.000 χ^2/NDF :1908980.4/16

Right Out: 0.004+/-0.000 χ^2/NDF : 3388069.5/18

Left In: 0.005+/-0.000 χ^2/NDF :2298254.2/14

Left: 0.005+/-0.000 χ^2/NDF : 4213310.4/31

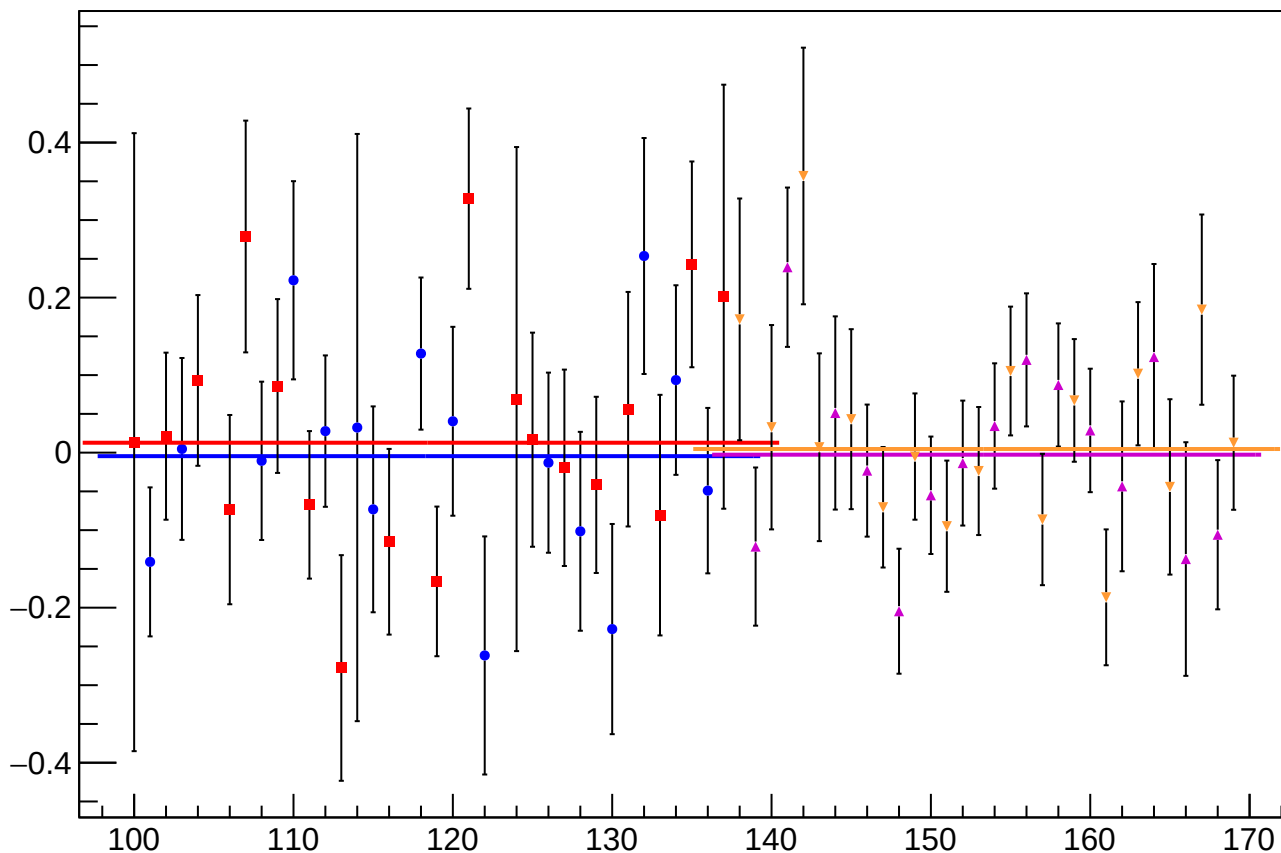
Right: 0.002+/-0.000 χ^2/NDF : 16183584.5/34

In: 0.003+/-0.000 χ^2/NDF :18524666.9/30

Out: 0.005+/-0.000 χ^2/NDF :5373957.0/35

All: 0.003+/-0.000 χ^2/NDF : 28753040.5/66

asym_usr_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 χ^2/NDF : 17.3/15

Left Out: 0.005 ± 0.023 χ^2/NDF : 19.7/16

Right Out: 0.013 ± 0.030 χ^2/NDF : 25.5/18

Left In: -0.003 ± 0.024 χ^2/NDF : 20.8/14

Left: 0.001 ± 0.017 χ^2/NDF : 40.6/31

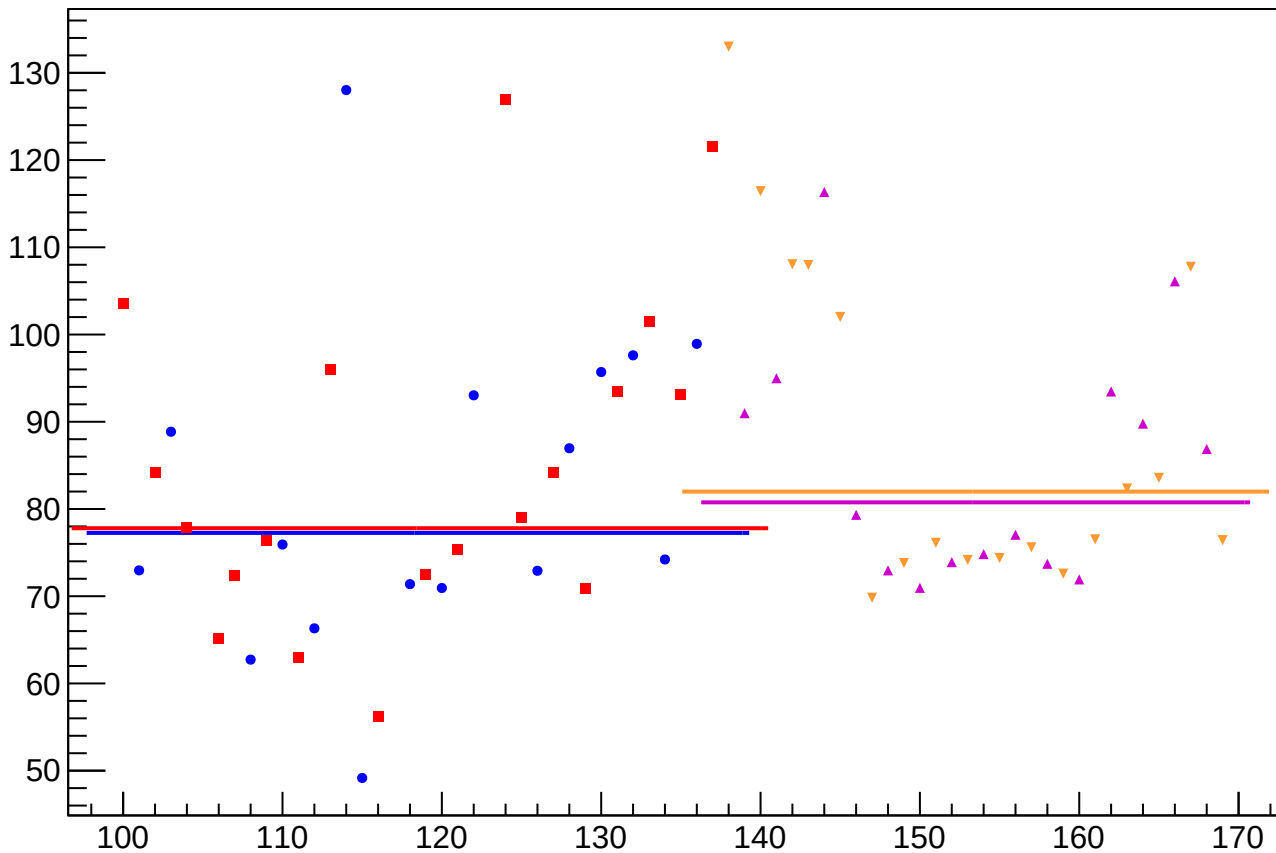
Right: 0.004 ± 0.021 χ^2/NDF : 42.9/34

In: -0.003 ± 0.019 χ^2/NDF : 38.1/30

Out: 0.008 ± 0.018 χ^2/NDF : 45.3/35

All: 0.002 ± 0.013 χ^2/NDF : 83.5/66

asym_usr_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 77.257 $\pm$ 0.021 χ^2 /NDF: 419276.8/15

Left Out: 81.994 $\pm$ 0.016 χ^2 /NDF:809707.0/16

Right Out: 77.795 $\pm$ 0.021 χ^2 /NDF: 396473.9/18

Left In: 80.762 $\pm$ 0.017 χ^2 /NDF:446307.8/14

Left: 81.389 $\pm$ 0.012 χ^2 /NDF: 1258772.4/31

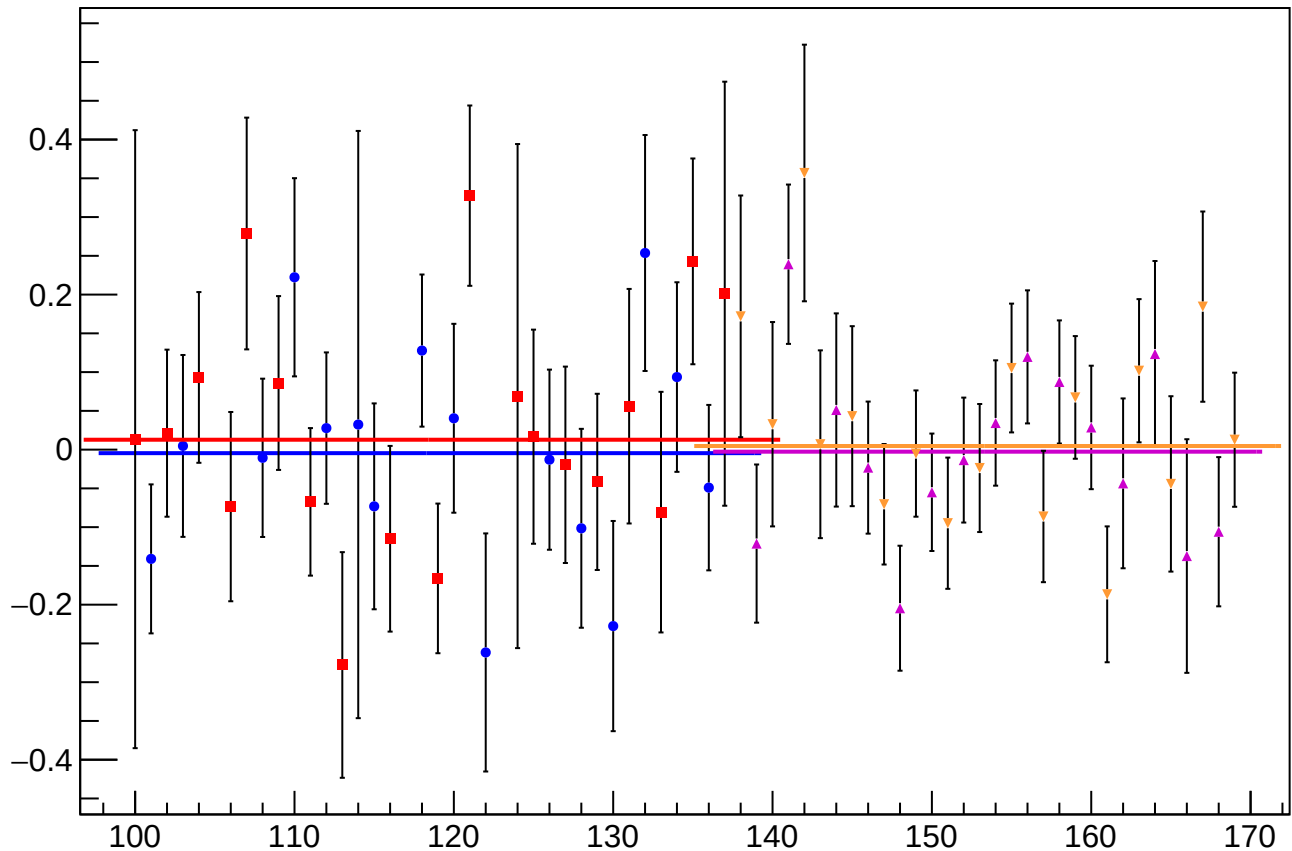
Right: 77.529 $\pm$ 0.015 χ^2 /NDF: 816074.1/34

In: 79.420 $\pm$ 0.013 χ^2 /NDF:882374.4/30

Out: 80.400 $\pm$ 0.013 χ^2 /NDF:1230946.8/35

All: 79.917 $\pm$ 0.009 χ^2 /NDF: 2116139.6/66

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.030 χ^2/NDF : 17.3/15

Left Out: 0.005 ± 0.023 χ^2/NDF : 19.7/16

Right Out: 0.013 ± 0.030 χ^2/NDF : 25.5/18

Left In: -0.003 ± 0.024 χ^2/NDF : 20.8/14

Left: 0.001 ± 0.017 χ^2/NDF : 40.6/31

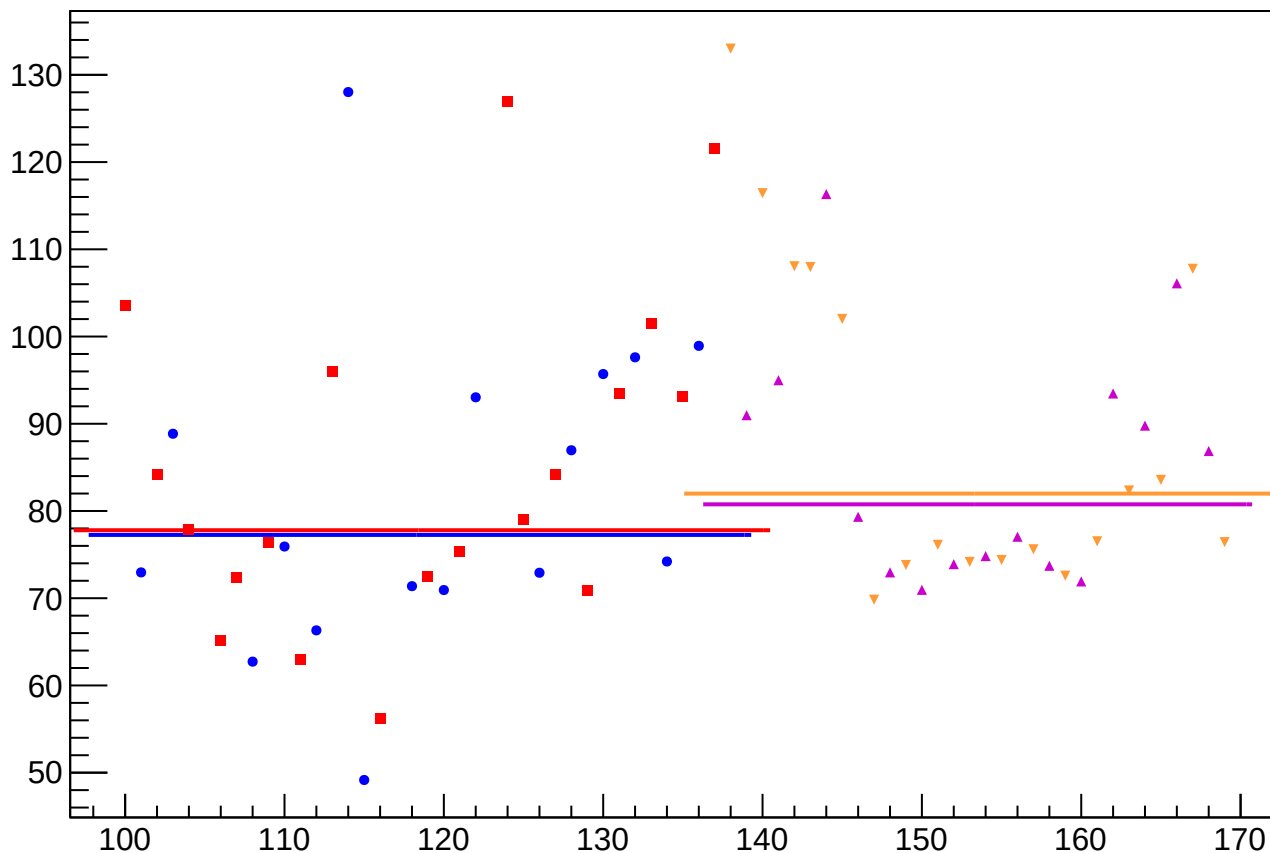
Right: 0.004 ± 0.021 χ^2/NDF : 42.9/34

In: -0.003 ± 0.019 χ^2/NDF : 38.1/30

Out: 0.008 ± 0.018 χ^2/NDF : 45.3/35

All: 0.002 ± 0.013 χ^2/NDF : 83.5/66

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 77.257 $\pm$ 0.021 χ^2 /NDF: 419276.8/15

Left Out: 81.994 $\pm$ 0.016 χ^2 /NDF:809707.0/16

Right Out: 77.795 $\pm$ 0.021 χ^2 /NDF: 396473.9/18

Left In: 80.762 $\pm$ 0.017 χ^2 /NDF:446307.8/14

Left: 81.389 $\pm$ 0.012 χ^2 /NDF: 1258772.4/31

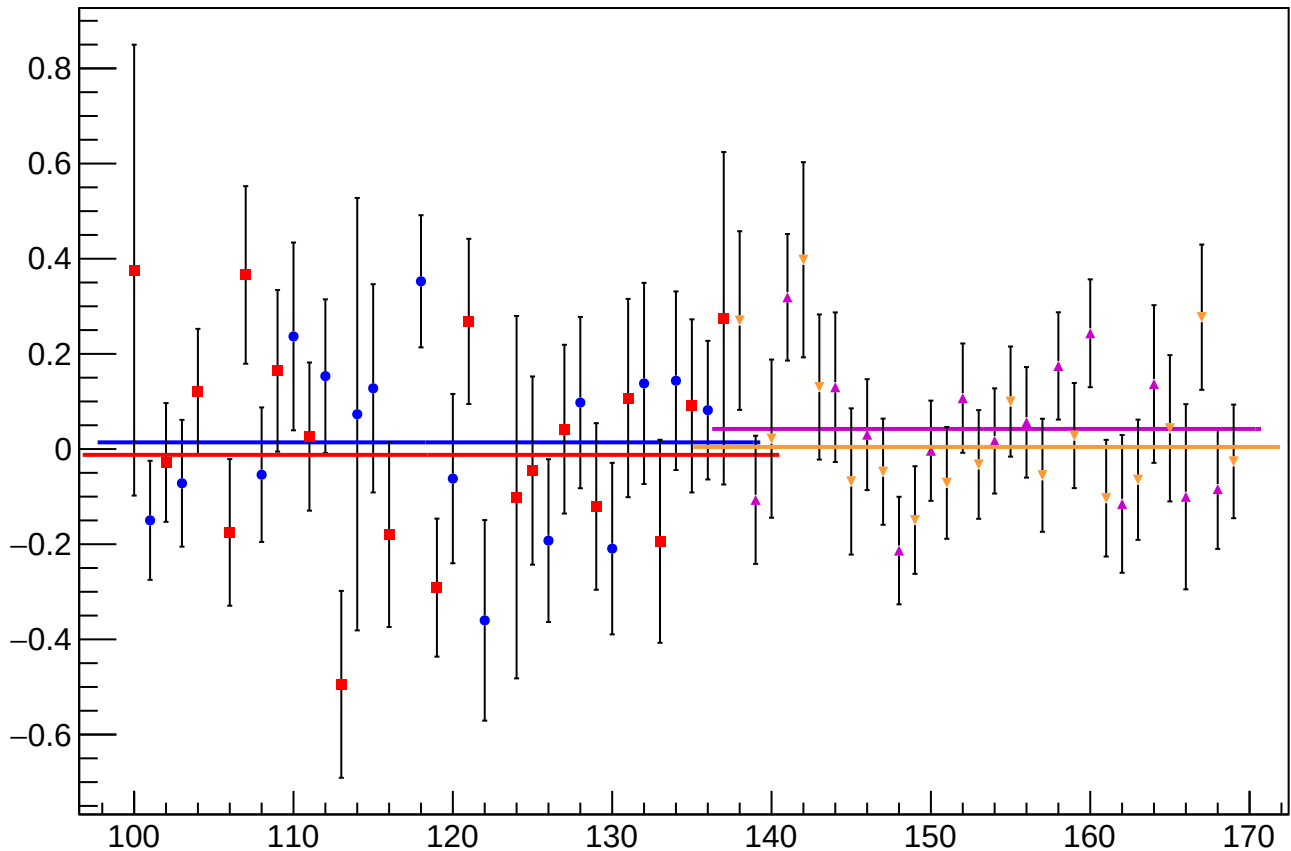
Right: 77.529 $\pm$ 0.015 χ^2 /NDF: 816074.1/34

In: 79.420 $\pm$ 0.013 χ^2 /NDF:882374.4/30

Out: 80.400 $\pm$ 0.013 χ^2 /NDF:1230946.8/35

All: 79.917 $\pm$ 0.009 χ^2 /NDF: 2116139.6/66

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.042 χ^2 /NDF: 18.2/15

Left Out: 0.004 $\pm$ 0.032 χ^2 /NDF:14.5/16

Right Out: -0.012 $\pm$ 0.041 χ^2 /NDF: 23.8/18

Left In: 0.042 $\pm$ 0.032 χ^2 /NDF:19.1/14

Left: 0.023 $\pm$ 0.023 χ^2 /NDF: 34.4/31

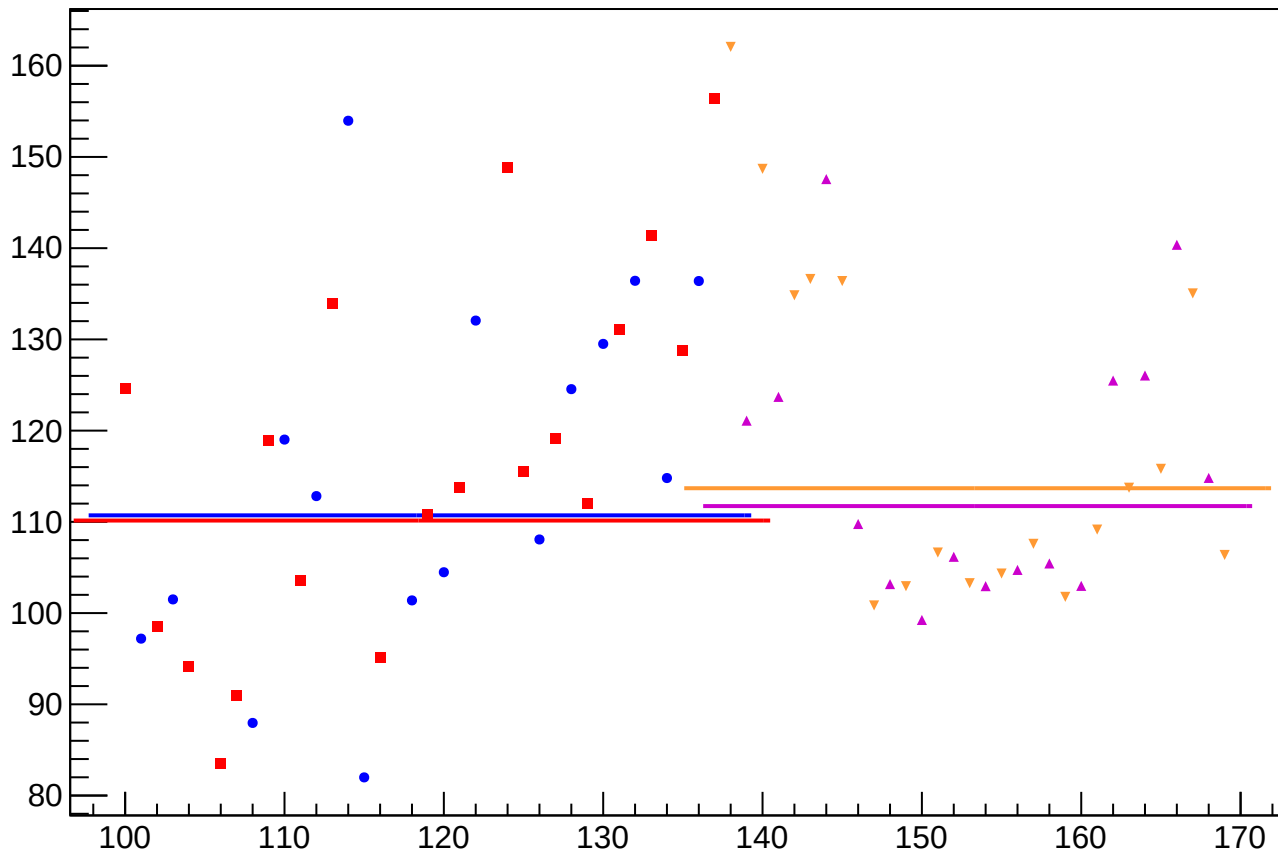
Right: 0.001 $\pm$ 0.030 χ^2 /NDF: 42.1/34

In: 0.032 $\pm$ 0.026 χ^2 /NDF:37.6/30

Out: -0.002 $\pm$ 0.025 χ^2 /NDF:38.4/35

All: 0.015 $\pm$ 0.018 χ^2 /NDF: 76.9/66

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected



Right In: 110.714 $\pm$ 0.030 χ^2 /NDF: 299948.2/15

Left Out: 113.686 $\pm$ 0.022 χ^2 /NDF: 491485.1/16

Right Out: 110.144 $\pm$ 0.029 χ^2 /NDF: 326696.7/18

Left In: 111.729 $\pm$ 0.023 χ^2 /NDF: 290139.4/14

Left: 112.726 $\pm$ 0.016 χ^2 /NDF: 785358.3/31

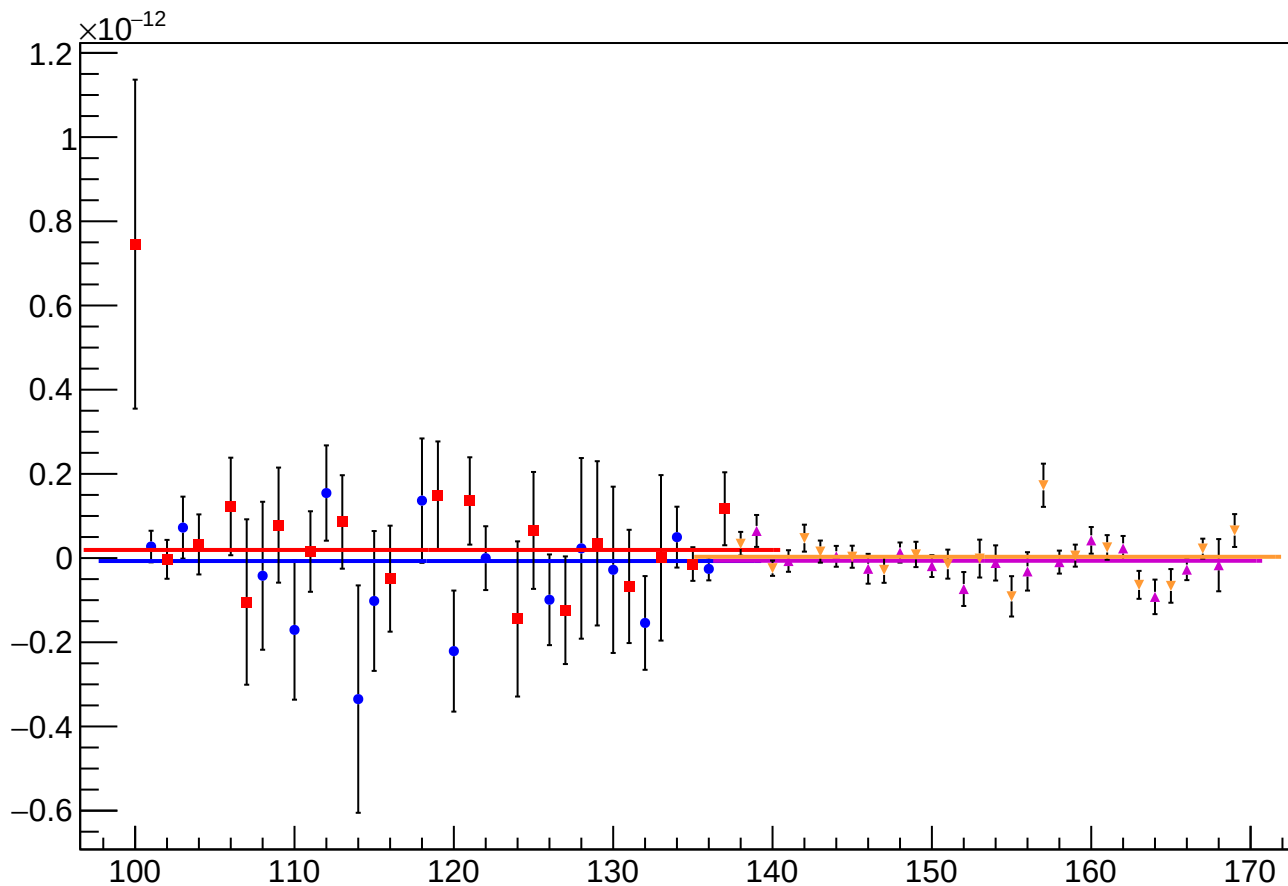
Right: 110.422 $\pm$ 0.021 χ^2 /NDF: 626830.6/34

In: 111.354 $\pm$ 0.018 χ^2 /NDF: 590815.2/30

Out: 112.372 $\pm$ 0.018 χ^2 /NDF: 827430.9/35

All: 111.873 $\pm$ 0.013 χ^2 /NDF: 1419849.7/66

asym_usr_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 13.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 32.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 12.6/18

Left In: -0.000+/-0.000 χ^2/NDF : 16.4/14

Left: -0.000+/-0.000 χ^2/NDF : 49.7/31

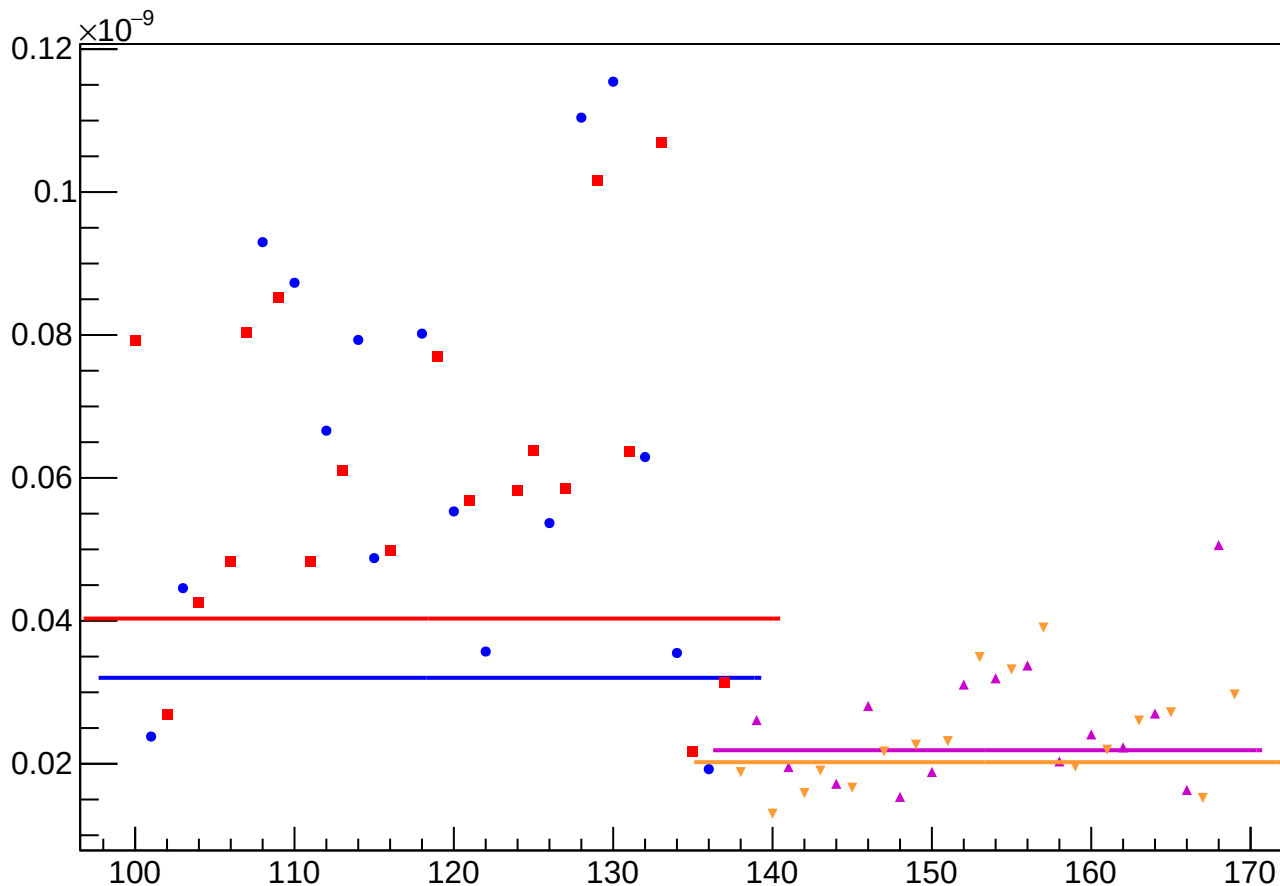
Right: 0.000+/-0.000 χ^2/NDF : 27.1/34

In: -0.000+/-0.000 χ^2/NDF : 30.0/30

Out: 0.000+/-0.000 χ^2/NDF : 45.7/35

All: -0.000+/-0.000 χ^2/NDF : 77.0/66

asym_usr_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2459312.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1400032.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1866332.6/18

Left In: 0.000+/-0.000 χ^2/NDF :1281859.6/14

Left: 0.000+/-0.000 χ^2/NDF : 2729510.1/31

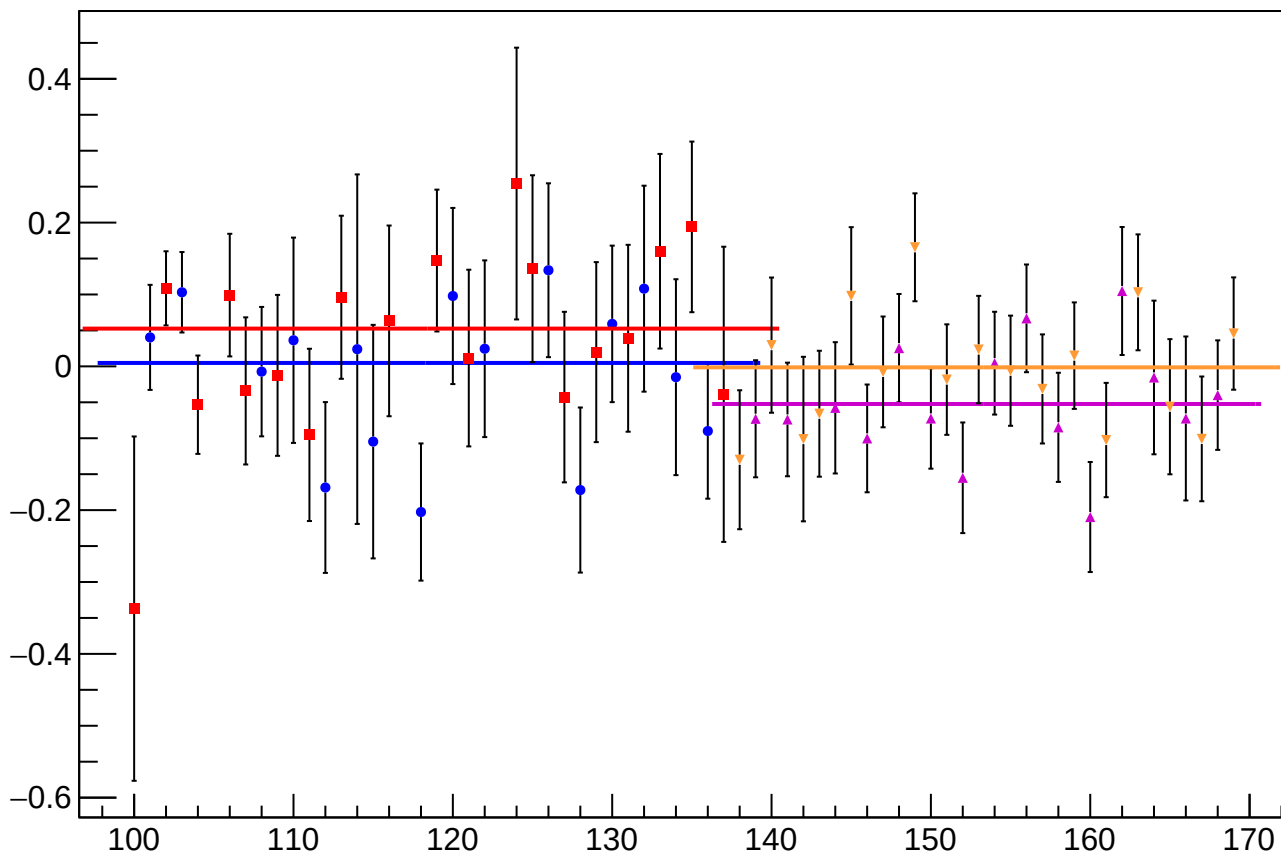
Right: 0.000+/-0.000 χ^2/NDF : 4504924.2/34

In: 0.000+/-0.000 χ^2/NDF :4274145.8/30

Out: 0.000+/-0.000 χ^2/NDF :4887212.6/35

All: 0.000+/-0.000 χ^2/NDF : 9192661.2/66

asym_usr_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.026 χ^2 /NDF: 16.6/15

Left Out: -0.001 $\pm$ 0.020 χ^2 /NDF:14.9/16

Right Out: 0.053 $\pm$ 0.024 χ^2 /NDF: 14.8/18

Left In: -0.052 $\pm$ 0.021 χ^2 /NDF:14.3/14

Left: -0.026 $\pm$ 0.014 χ^2 /NDF: 32.4/31

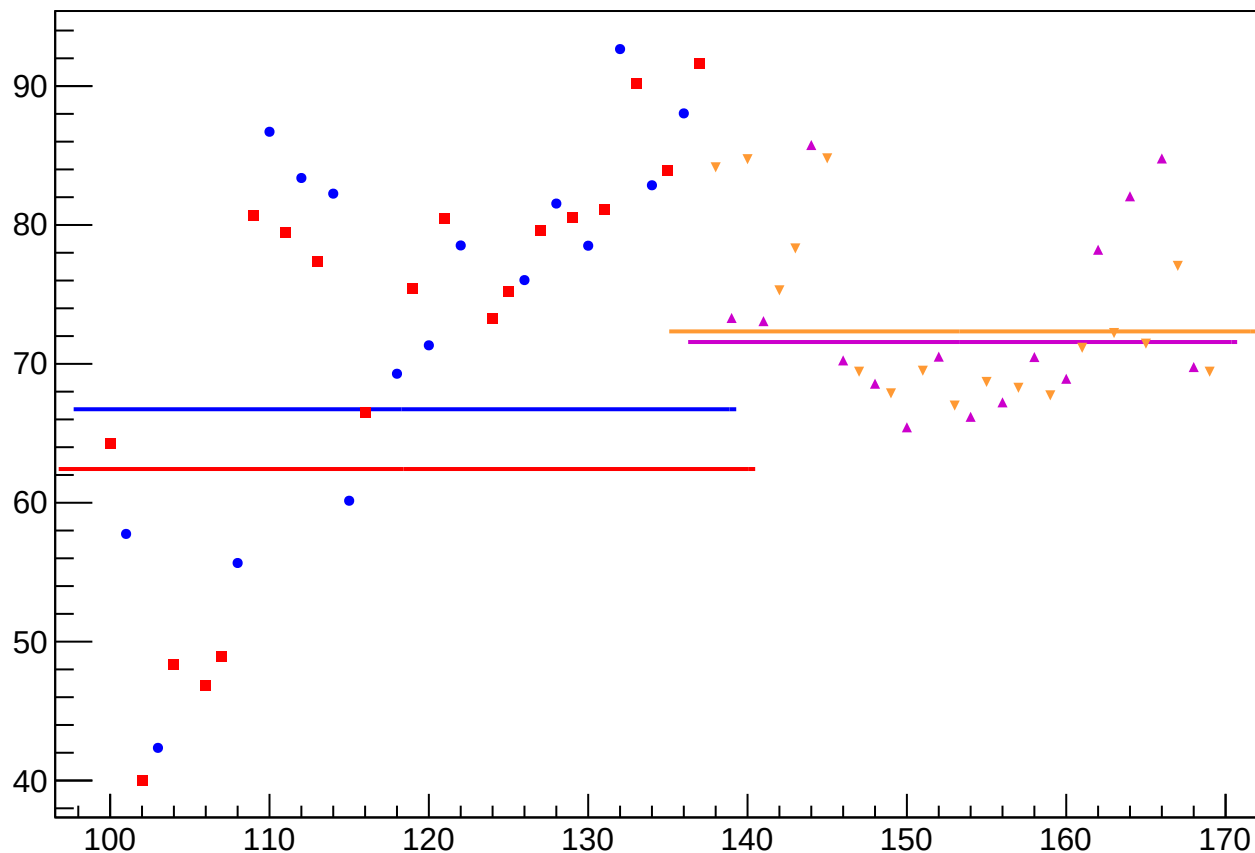
Right: 0.030 $\pm$ 0.018 χ^2 /NDF: 33.2/34

In: -0.030 $\pm$ 0.016 χ^2 /NDF:33.9/30

Out: 0.021 $\pm$ 0.015 χ^2 /NDF:32.7/35

All: -0.004 $\pm$ 0.011 χ^2 /NDF: 71.8/66

asym_usr_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 66.732 $\pm$ 0.018 χ^2 /NDF: 816752.6/15

Left Out: 72.337 $\pm$ 0.014 χ^2 /NDF:159345.8/16

Right Out: 62.429 $\pm$ 0.017 χ^2 /NDF: 1114078.0/18

Left In: 71.573 $\pm$ 0.015 χ^2 /NDF:148743.7/14

Left: 71.966 $\pm$ 0.010 χ^2 /NDF: 309496.2/31

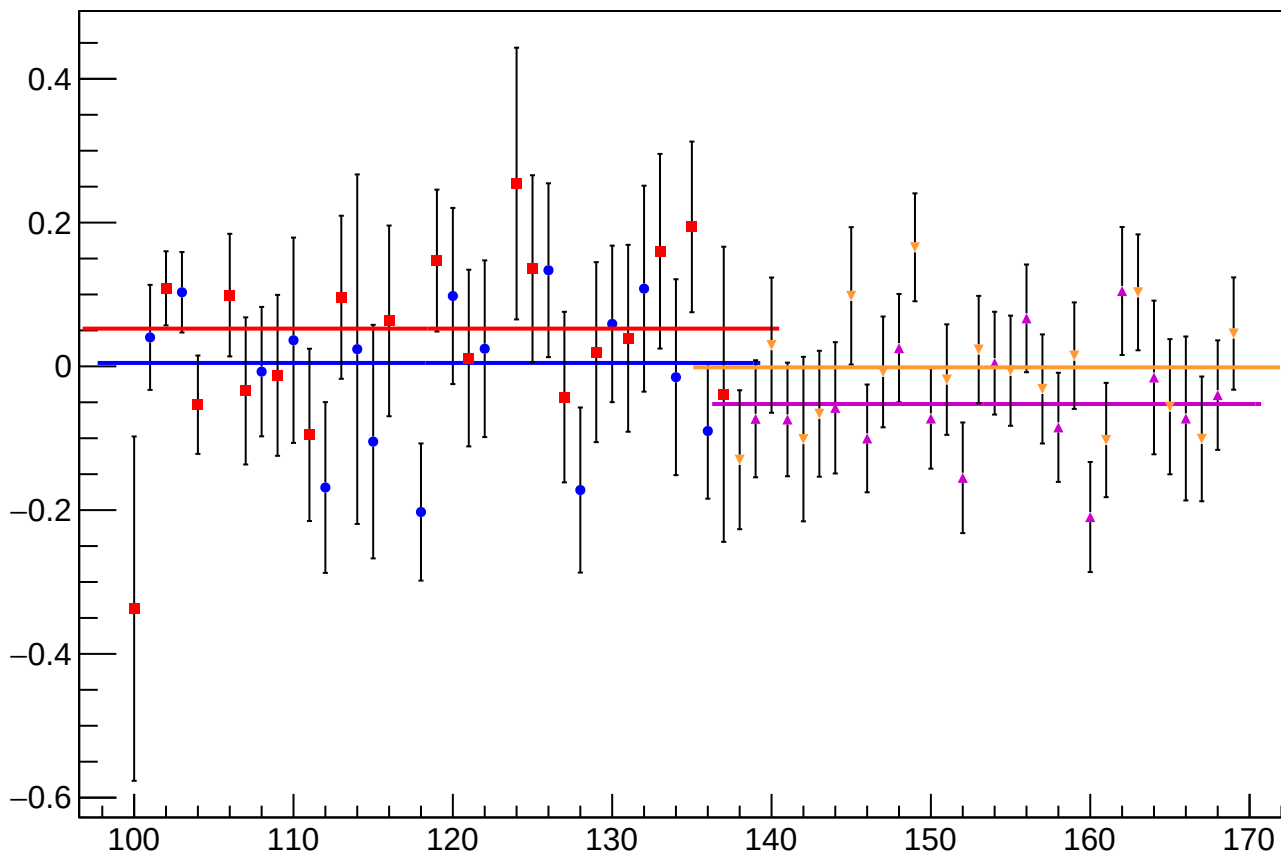
Right: 64.425 $\pm$ 0.012 χ^2 /NDF: 1960436.9/34

In: 69.689 $\pm$ 0.011 χ^2 /NDF:1008168.0/30

Out: 68.273 $\pm$ 0.011 χ^2 /NDF:1473019.1/35

All: 68.948 $\pm$ 0.008 χ^2 /NDF: 2489216.8/66

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 ± 0.026 $\chi^2/\text{NDF}: 16.6/15$

Left Out: -0.001 ± 0.020 $\chi^2/\text{NDF}: 14.9/16$

Right Out: 0.053 ± 0.024 $\chi^2/\text{NDF}: 14.8/18$

Left In: -0.052 ± 0.021 $\chi^2/\text{NDF}: 14.3/14$

Left: -0.026 ± 0.014 $\chi^2/\text{NDF}: 32.4/31$

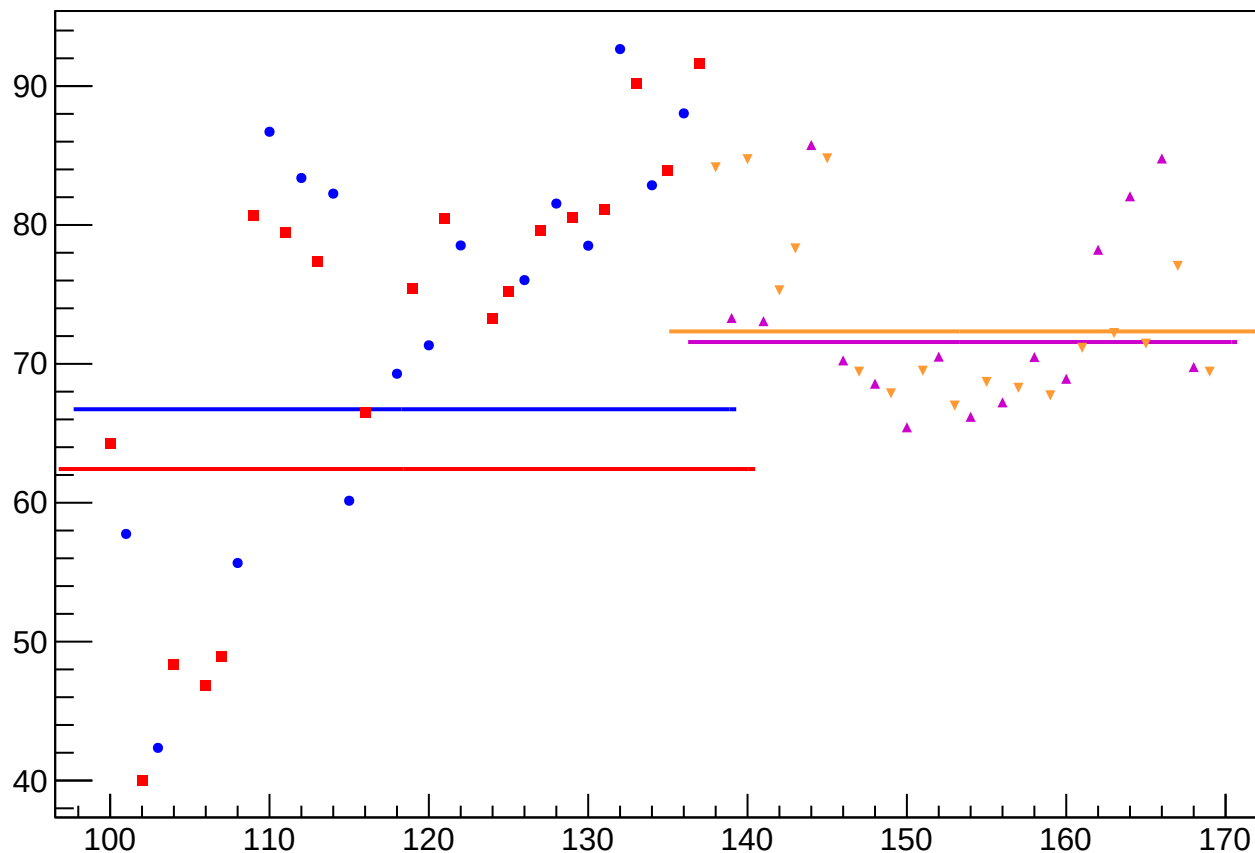
Right: 0.030 ± 0.018 $\chi^2/\text{NDF}: 33.2/34$

In: -0.030 ± 0.016 $\chi^2/\text{NDF}: 33.9/30$

Out: 0.021 ± 0.015 $\chi^2/\text{NDF}: 32.7/35$

All: -0.004 ± 0.011 $\chi^2/\text{NDF}: 71.8/66$

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 66.732 $\pm$ 0.018 χ^2 /NDF: 816752.6/15

Left Out: 72.337 $\pm$ 0.014 χ^2 /NDF:159345.8/16

Right Out: 62.429 $\pm$ 0.017 χ^2 /NDF: 1114078.0/18

Left In: 71.573 $\pm$ 0.015 χ^2 /NDF:148743.7/14

Left: 71.966 $\pm$ 0.010 χ^2 /NDF: 309496.2/31

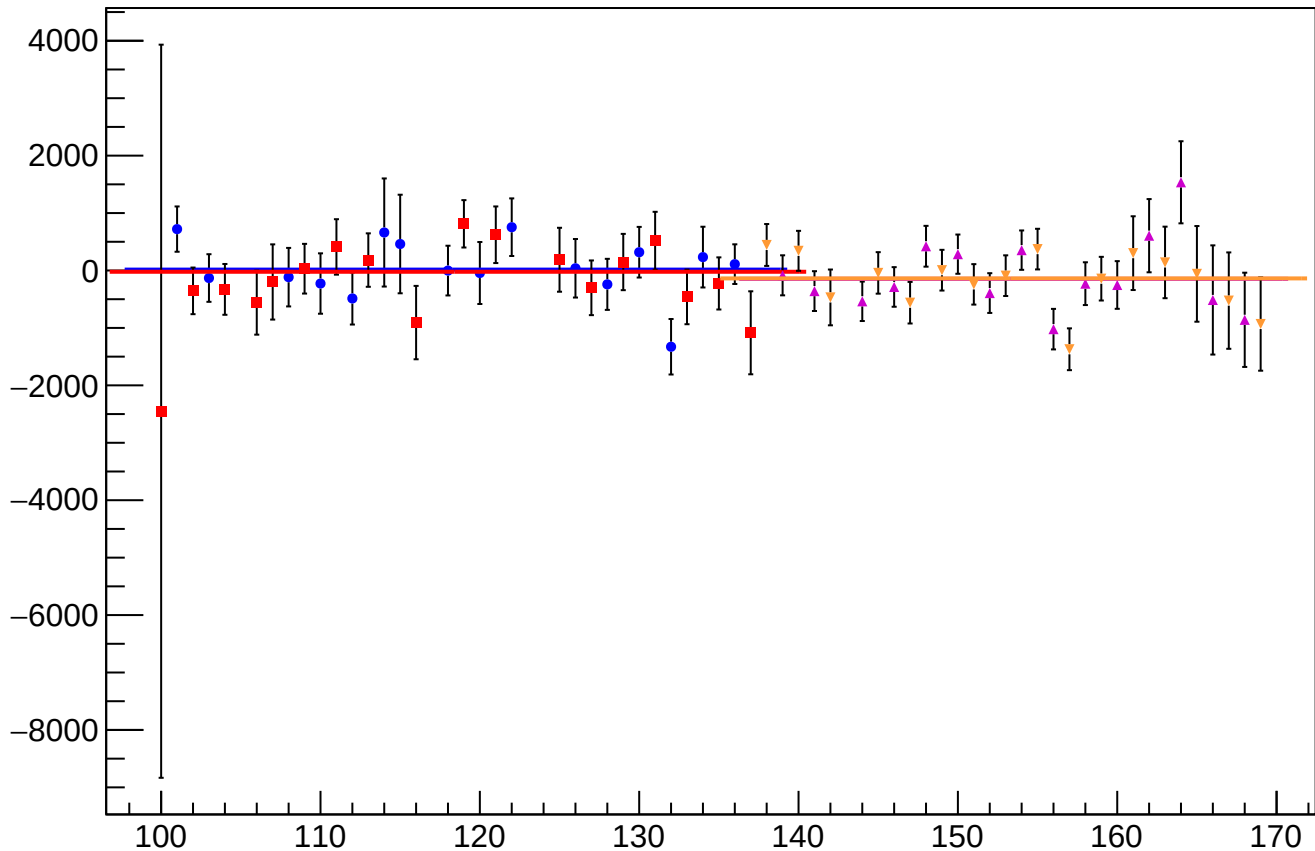
Right: 64.425 $\pm$ 0.012 χ^2 /NDF: 1960436.9/34

In: 69.689 $\pm$ 0.011 χ^2 /NDF:1008168.0/30

Out: 68.273 $\pm$ 0.011 χ^2 /NDF:1473019.1/35

All: 68.948 $\pm$ 0.008 χ^2 /NDF: 2489216.8/66

asym_dsl_mean vs Slug, Sign Corrected



Right In: 15.517 ± 119.431 χ^2/NDF : 16.5/15

Left Out: -137.888 ± 104.752 χ^2/NDF : 22.0/15

Right Out: -22.145 ± 119.211 χ^2/NDF : 16.0/17

Left In: -145.291 ± 102.675 χ^2/NDF : 22.8/14

Left: -141.664 ± 73.325 χ^2/NDF : 44.8/30

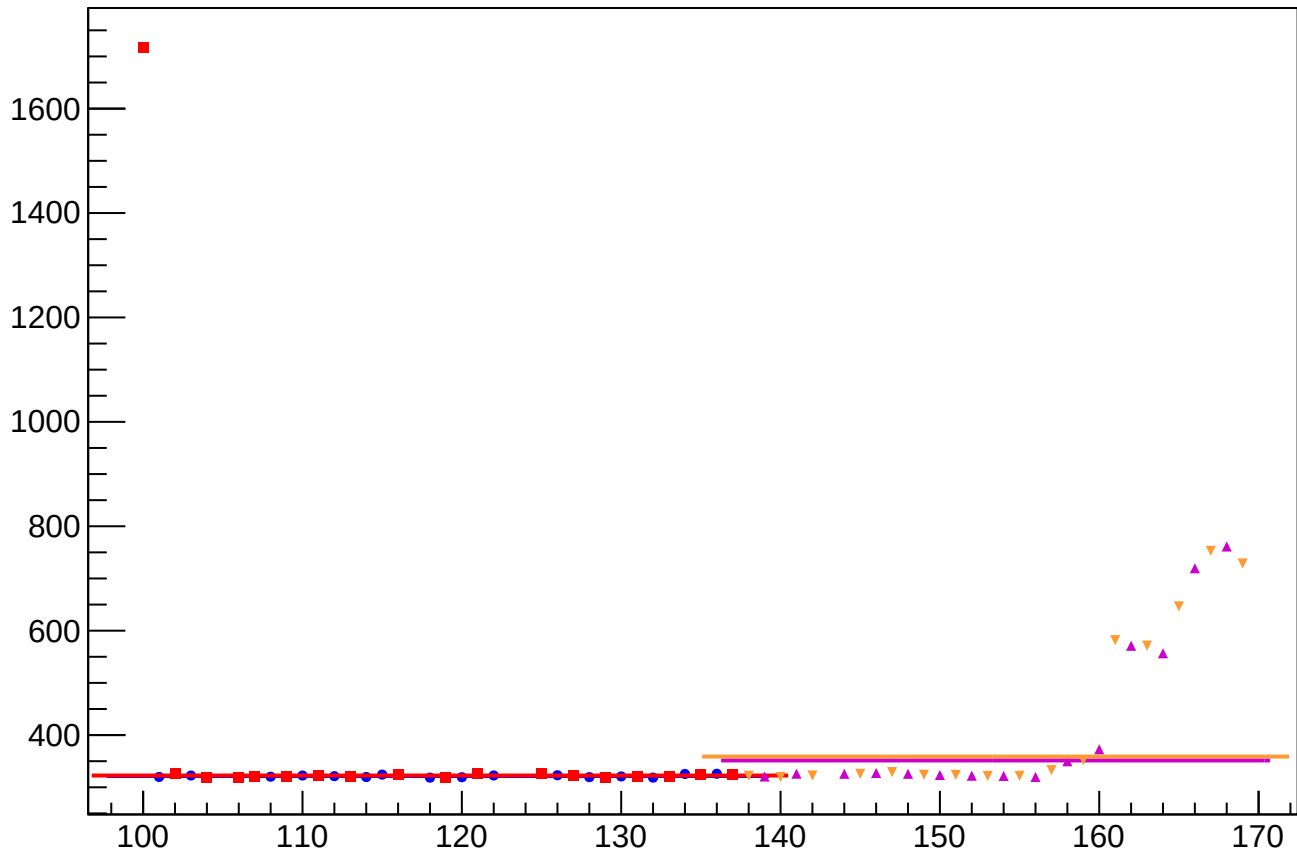
Right: -3.348 ± 84.373 χ^2/NDF : 32.6/33

In: -76.950 ± 77.858 χ^2/NDF : 40.3/30

Out: -87.458 ± 78.689 χ^2/NDF : 38.6/33

All: -82.149 ± 55.345 χ^2/NDF : 78.9/64

asym_dsl_rms vs Slug, Sign Corrected



Right In: 321.604 $\pm$ 0.084 χ^2 /NDF: 822.9/15

Left Out: 358.801 $\pm$ 0.074 χ^2 /NDF:1747813.8/15

Right Out: 322.553 $\pm$ 0.084 χ^2 /NDF: 96891.9/17

Left In: 351.394 $\pm$ 0.073 χ^2 /NDF:1322378.5/14

Left: 355.024 $\pm$ 0.052 χ^2 /NDF: 3075292.9/30

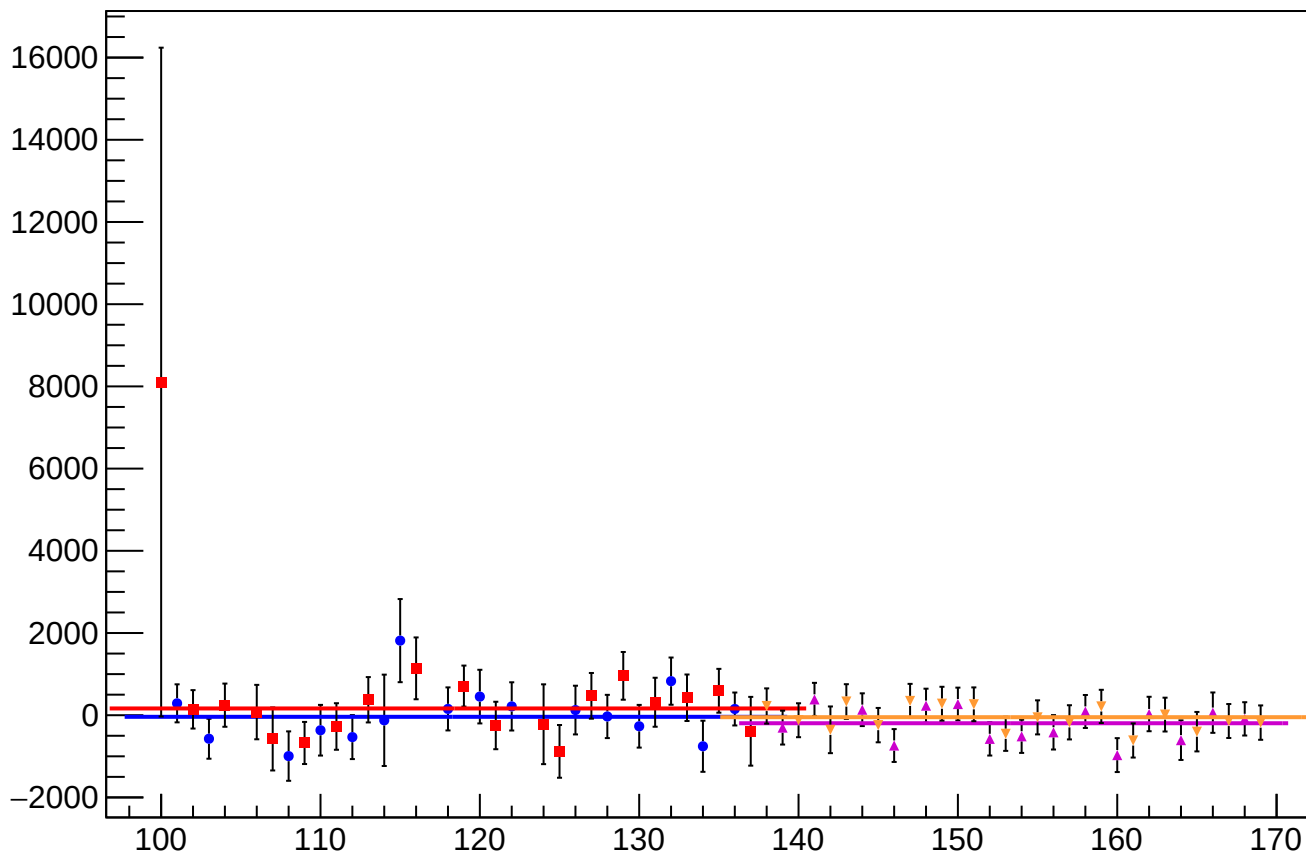
Right: 322.079 $\pm$ 0.060 χ^2 /NDF: 97778.0/33

In: 338.734 $\pm$ 0.055 χ^2 /NDF:1394753.0/30

Out: 343.008 $\pm$ 0.056 χ^2 /NDF:1949053.9/33

All: 340.848 $\pm$ 0.039 χ^2 /NDF: 3346788.4/64

asym_dsr_mean vs Slug, Sign Corrected



Right In: -38.914 ± 140.720 $\chi^2/NDF: 13.7/15$

Left Out: -47.929 ± 102.857 $\chi^2/NDF: 7.9/16$

Right Out: 164.639 ± 138.962 $\chi^2/NDF: 15.1/18$

Left In: -195.145 ± 107.216 $\chi^2/NDF: 14.3/14$

Left: -118.484 ± 74.224 $\chi^2/NDF: 23.2/31$

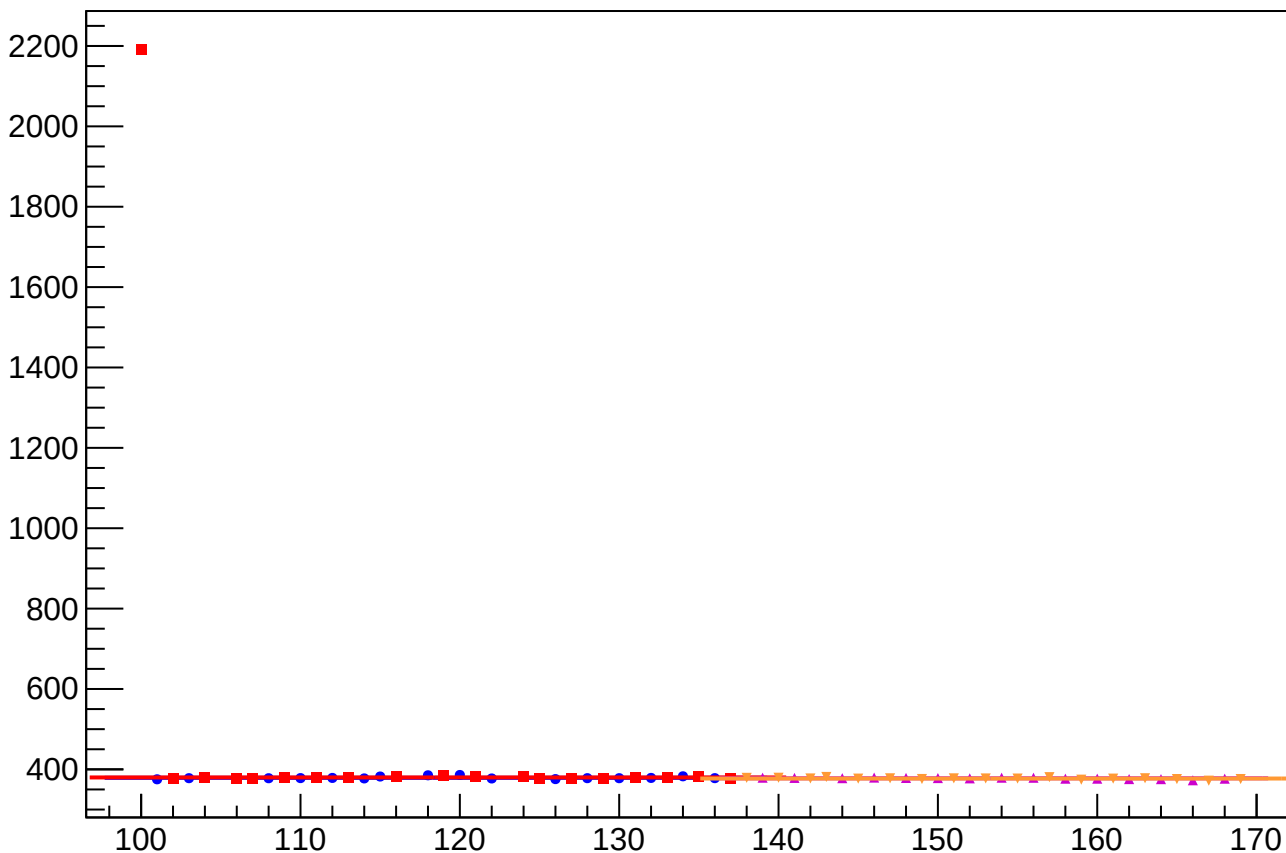
Right: 64.141 ± 98.877 $\chi^2/NDF: 29.9/34$

In: -137.763 ± 85.283 $\chi^2/NDF: 28.8/30$

Out: 27.309 ± 82.674 $\chi^2/NDF: 24.5/35$

All: -52.664 ± 59.360 $\chi^2/NDF: 55.3/66$

asym_dsr_rms vs Slug, Sign Corrected



Right In: 378.910 $\pm$ 0.100 χ^2 /NDF: 851.2/15

Left Out: 377.177 $\pm$ 0.073 χ^2 /NDF:876.7/16

Right Out: 379.878 $\pm$ 0.098 χ^2 /NDF: 99621.5/18

Left In: 377.721 $\pm$ 0.076 χ^2 /NDF:457.7/14

Left: 377.438 $\pm$ 0.052 χ^2 /NDF: 1361.2/31

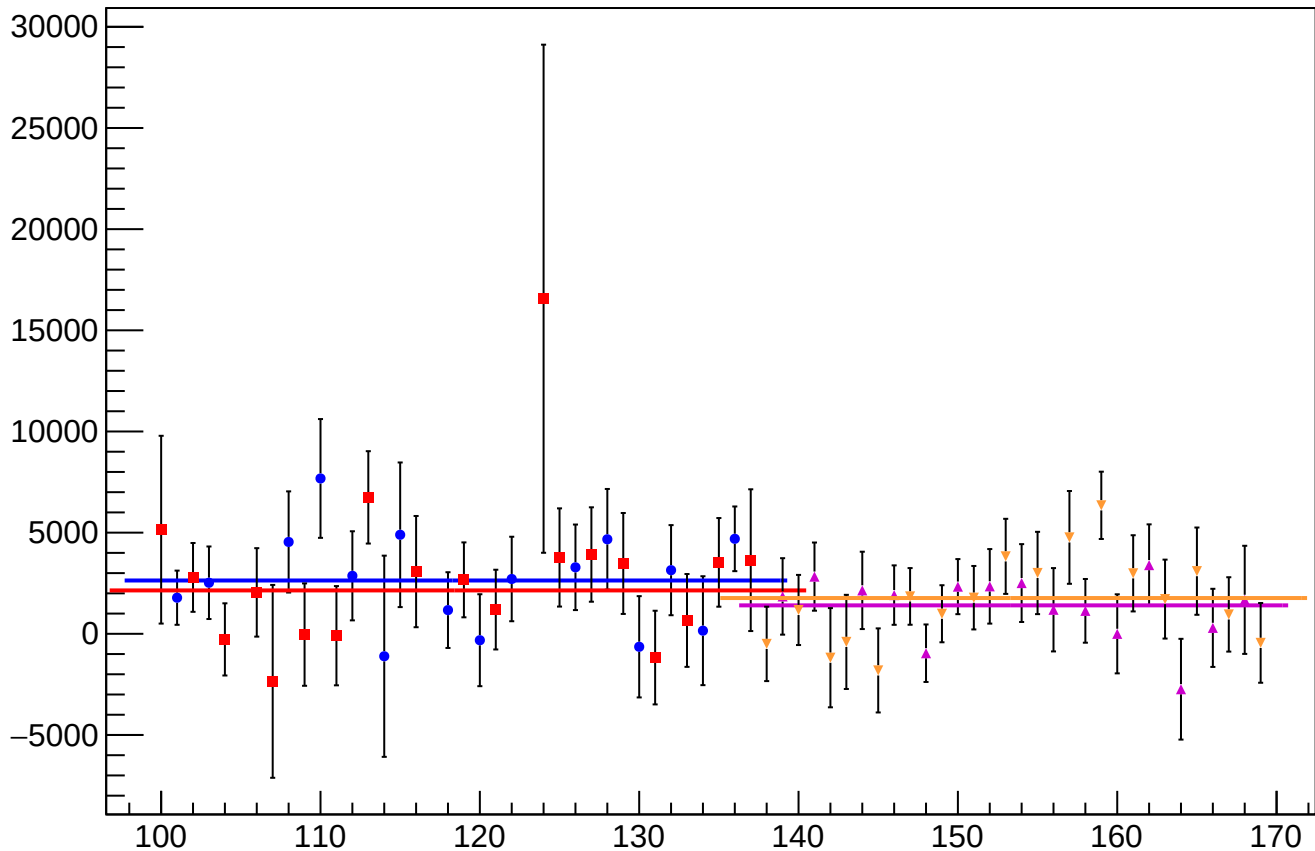
Right: 379.400 $\pm$ 0.070 χ^2 /NDF: 100520.6/34

In: 378.158 $\pm$ 0.060 χ^2 /NDF:1399.2/30

Out: 378.133 $\pm$ 0.058 χ^2 /NDF:100986.3/35

All: 378.145 $\pm$ 0.042 χ^2 /NDF: 102385.6/66

asym_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 2635.397 $\pm$ 538.034 χ^2 /NDF: 12.3/15

Left Out: 1768.003 $\pm$ 445.967 χ^2 /NDF: 20.4/16

Right Out: 2144.569 $\pm$ 546.963 χ^2 /NDF: 15.0/18

Left In: 1405.693 $\pm$ 461.940 χ^2 /NDF: 9.5/14

Left: 1593.220 $\pm$ 320.845 χ^2 /NDF: 30.2/31

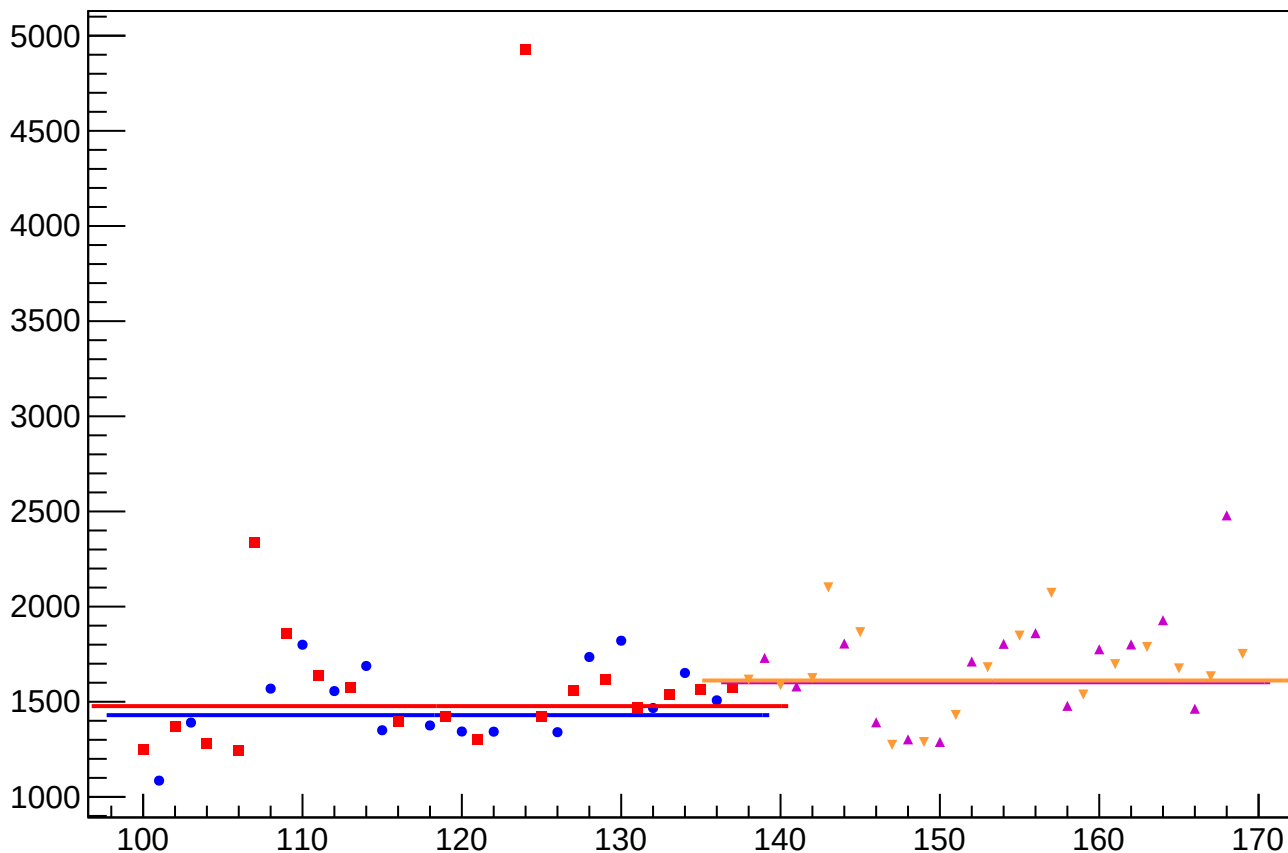
Right: 2394.022 $\pm$ 383.566 χ^2 /NDF: 27.7/34

In: 1927.508 $\pm$ 350.484 χ^2 /NDF: 24.8/30

Out: 1918.375 $\pm$ 345.638 χ^2 /NDF: 35.7/35

All: 1922.878 $\pm$ 246.098 χ^2 /NDF: 60.5/66

asym_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 1429.654 $\pm$ 0.380 χ^2/NDF : 293388.5/15

Left Out: 1611.797 $\pm$ 0.315 χ^2/NDF : 514073.5/16

Right Out: 1477.126 $\pm$ 0.387 χ^2/NDF : 369430.6/18

Left In: 1602.232 $\pm$ 0.327 χ^2/NDF : 636598.2/14

Left: 1607.183 $\pm$ 0.227 χ^2/NDF : 1151115.5/31

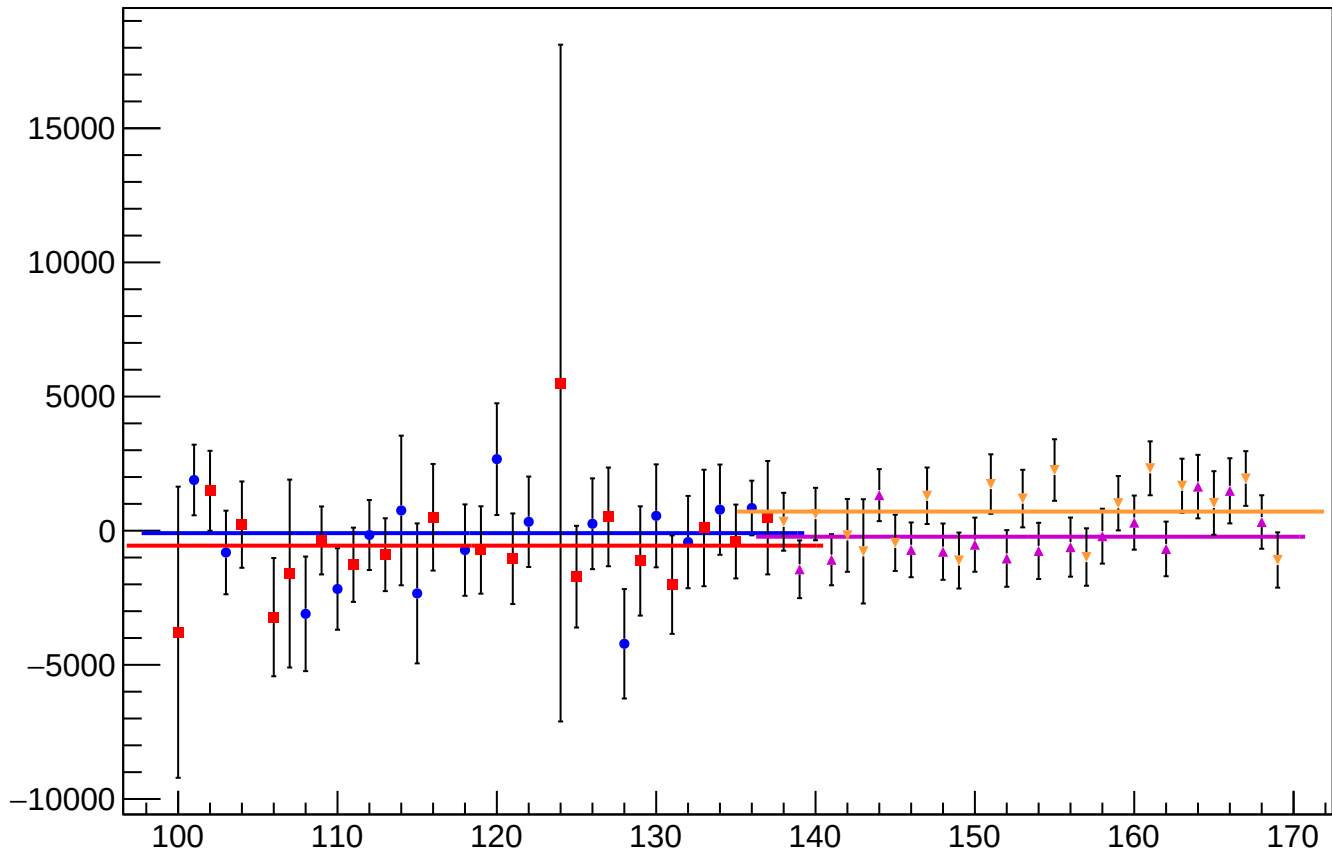
Right: 1452.999 $\pm$ 0.271 χ^2/NDF : 670475.8/34

In: 1529.000 $\pm$ 0.248 χ^2/NDF : 1048439.4/30

Out: 1558.019 $\pm$ 0.244 χ^2/NDF : 956332.6/35

All: 1543.711 $\pm$ 0.174 χ^2/NDF : 2011723.0/60

asym_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -91.305 ± 409.957 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 712.746 ± 264.277 $\chi^2/\text{NDF}: 19.3/16$

Right Out: -556.840 ± 411.346 $\chi^2/\text{NDF}: 6.8/18$

Left In: -224.310 ± 269.032 $\chi^2/\text{NDF}: 11.5/14$

Left: 252.570 ± 188.531 $\chi^2/\text{NDF}: 36.9/31$

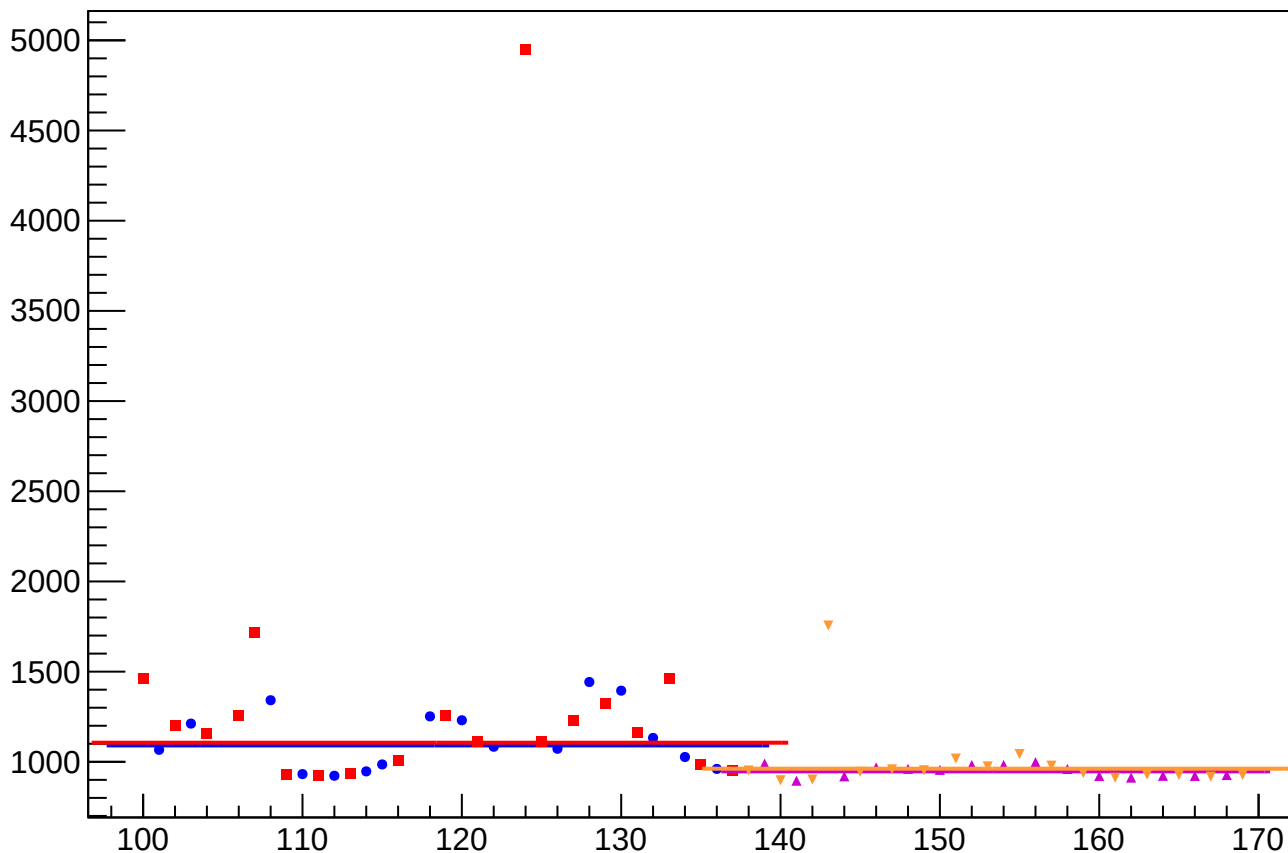
Right: -323.285 ± 290.373 $\chi^2/\text{NDF}: 21.9/34$

In: -184.273 ± 224.924 $\chi^2/\text{NDF}: 26.1/30$

Out: 341.811 ± 222.344 $\chi^2/\text{NDF}: 32.8/35$

All: 81.804 ± 158.125 $\chi^2/\text{NDF}: 61.6/66$

asym_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 1091.041+/-0.290 χ^2/NDF : 277304.9/15

Left Out: 961.981+/-0.187 χ^2/NDF : 378986.8/16

Right Out: 1106.046+/-0.291 χ^2/NDF : 514097.9/18

Left In: 947.119+/-0.190 χ^2/NDF : 27527.5/14

Left: 954.683+/-0.133 χ^2/NDF : 409620.3/31

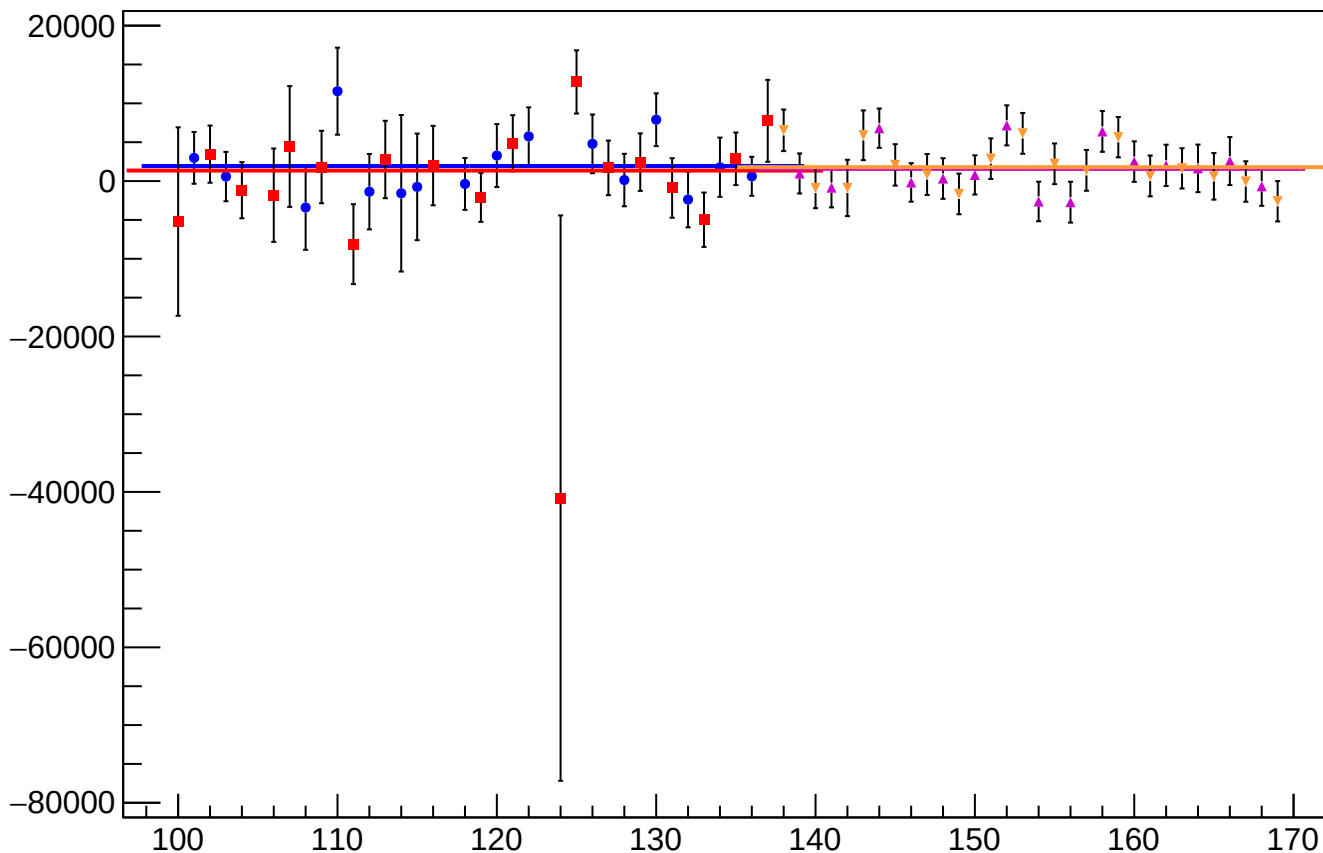
Right: 1098.518+/-0.205 χ^2/NDF : 792737.9/34

In: 990.443+/-0.159 χ^2/NDF : 477126.8/30

Out: 1004.072+/-0.157 χ^2/NDF : 1066730.2/35

All: 997.336+/-0.112 χ^2/NDF : 1547571.4/66

reg_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1939.656 $\pm$ 952.537 χ^2/NDF : 12.2/15

Left Out: 1784.452 $\pm$ 655.846 χ^2/NDF : 17.1/16

Right Out: 1353.428 $\pm$ 985.119 χ^2/NDF : 21.8/18

Left In: 1569.206 $\pm$ 677.181 χ^2/NDF : 20.6/14

Left: 1680.273 $\pm$ 471.115 χ^2/NDF : 37.8/31

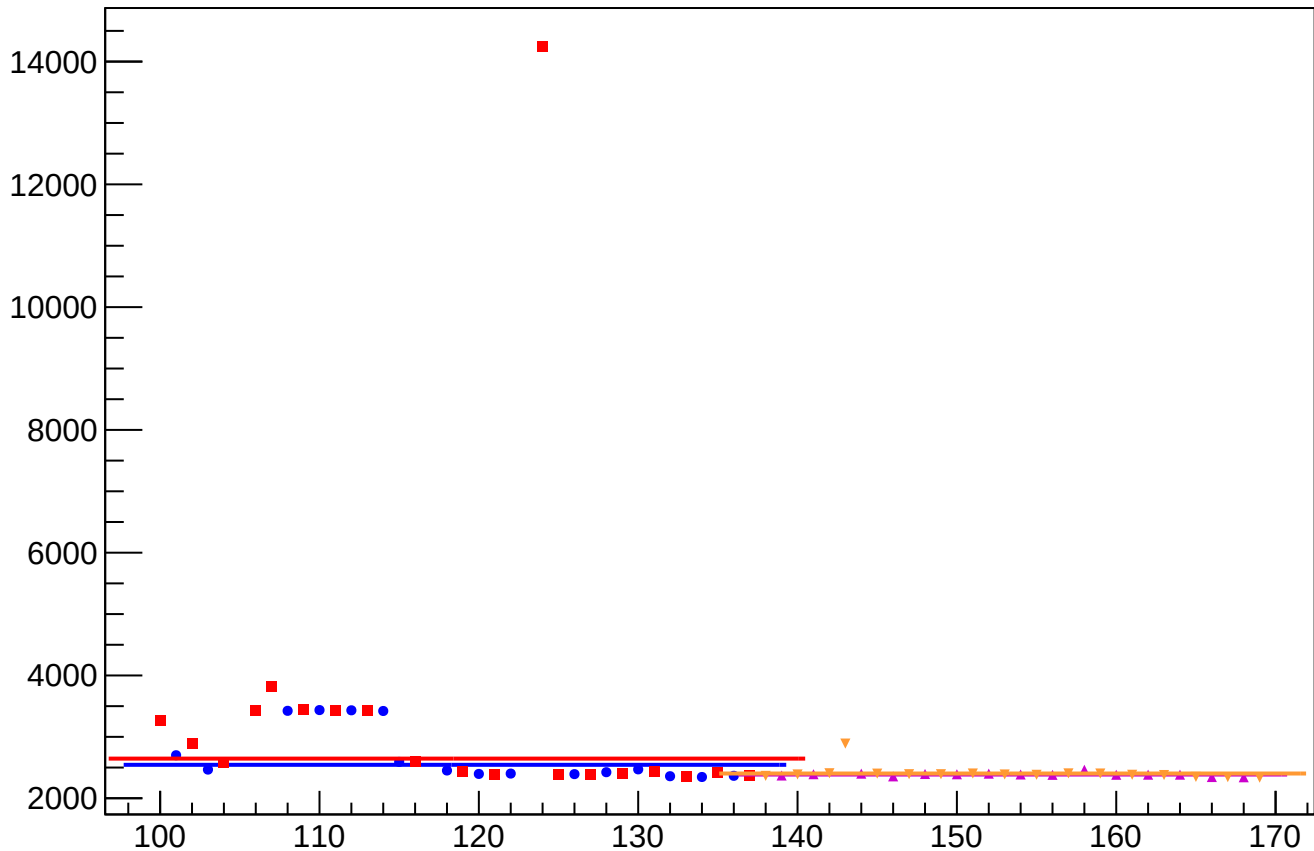
Right: 1656.397 $\pm$ 684.775 χ^2/NDF : 34.2/34

In: 1693.577 $\pm$ 551.921 χ^2/NDF : 32.9/30

Out: 1652.081 $\pm$ 545.927 χ^2/NDF : 39.1/35

All: 1672.602 $\pm$ 388.131 χ^2/NDF : 72.0/66

reg_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2544.416+/-0.674 χ^2/NDF : 225614.0/15

Left Out: 2402.803+/-0.464 χ^2/NDF : 50613.2/16

Right Out: 2645.647+/-0.697 χ^2/NDF : 536965.2/18

Left In: 2385.700+/-0.479 χ^2/NDF : 3266.4/14

Left: 2394.525+/-0.333 χ^2/NDF : 54537.8/31

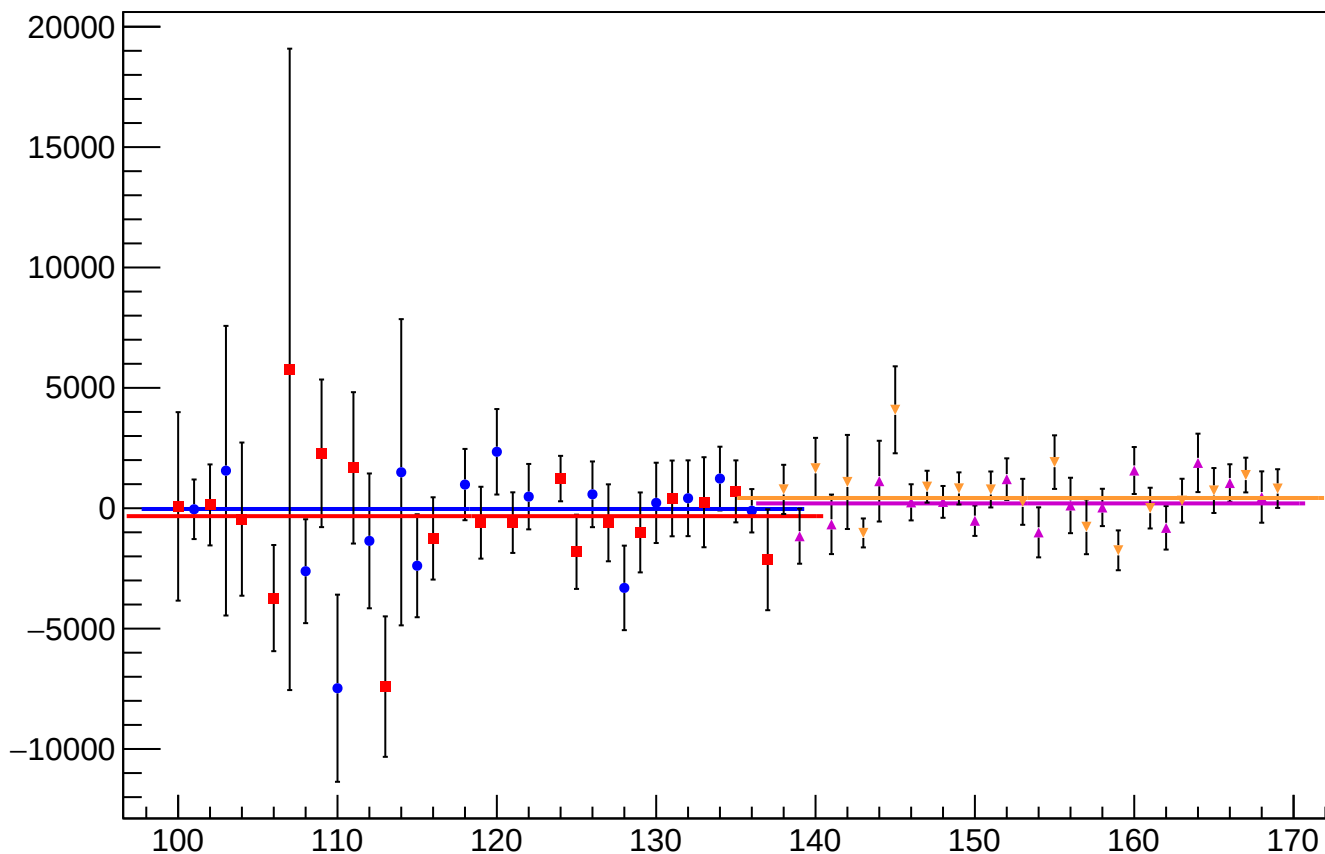
Right: 2593.330+/-0.484 χ^2/NDF : 773493.8/34

In: 2438.985+/-0.390 χ^2/NDF : 265765.7/30

Out: 2477.382+/-0.386 χ^2/NDF : 671790.0/35

All: 2458.393+/-0.274 χ^2/NDF : 942448.4/66

asym_atl1_reg_correction_mean vs Slug, Sign Corrected



Right In: -31.191 ± 405.726 χ^2/NDF : 13.8/15

Left Out: 425.827 ± 210.357 χ^2/NDF : 24.4/16

Right Out: -328.475 ± 398.568 χ^2/NDF : 15.6/18

Left In: 200.752 ± 232.378 χ^2/NDF : 12.7/14

Left: 324.457 ± 155.950 χ^2/NDF : 37.6/31

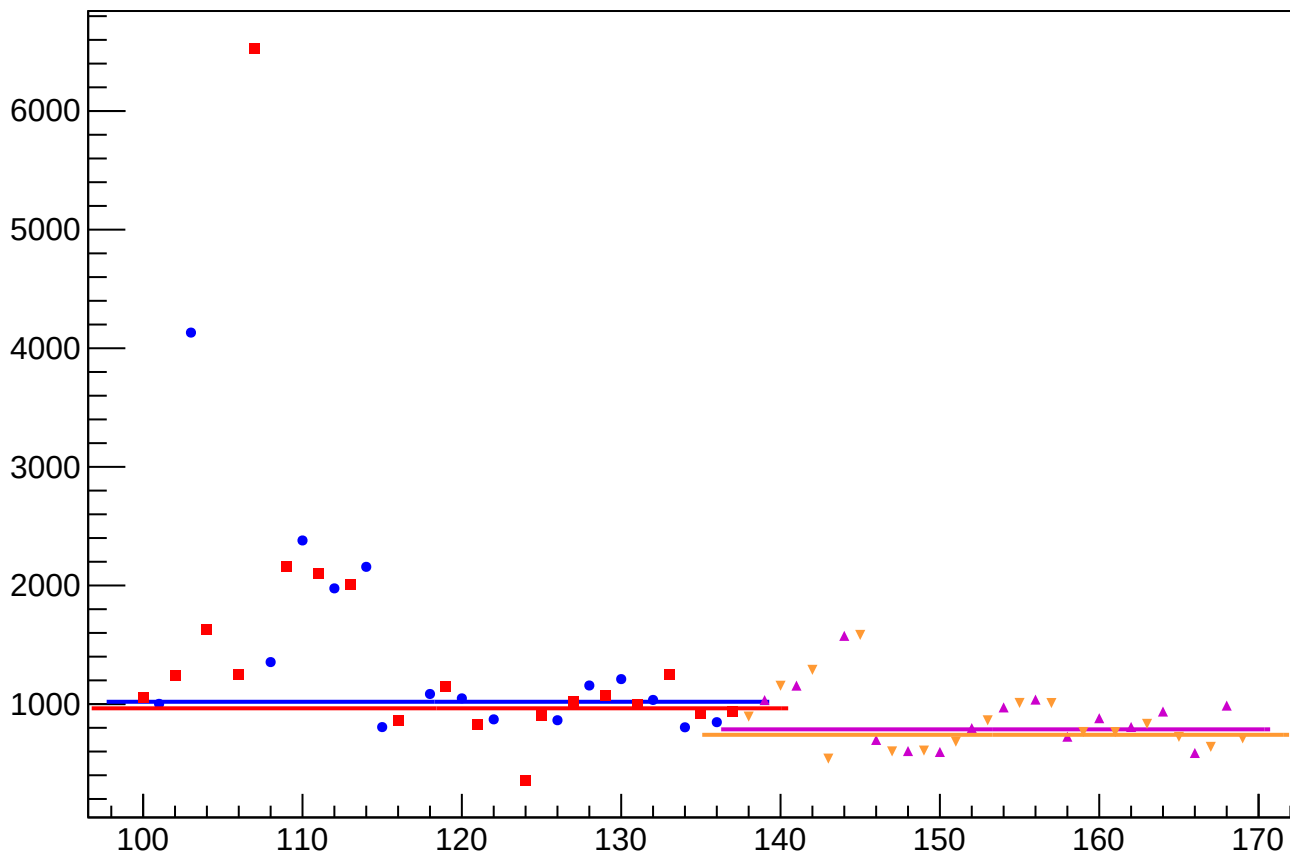
Right: -182.479 ± 284.327 χ^2/NDF : 29.7/34

In: 143.459 ± 201.646 χ^2/NDF : 26.7/30

Out: 261.490 ± 186.036 χ^2/NDF : 42.8/35

All: 207.220 ± 136.733 χ^2/NDF : 69.7/66

asym_atl1_reg_correction_rms vs Slug, Sign Corrected



Right In: 1019.523+/-0.287 χ^2/NDF : 1364745.9/15

Left Out: 741.038+/-0.149 χ^2/NDF :1582142.1/16

Right Out: 964.379+/-0.282 χ^2/NDF : 2309359.3/18

Left In: 787.135+/-0.164 χ^2/NDF :1499531.8/14

Left: 761.800+/-0.110 χ^2/NDF : 3124929.1/31

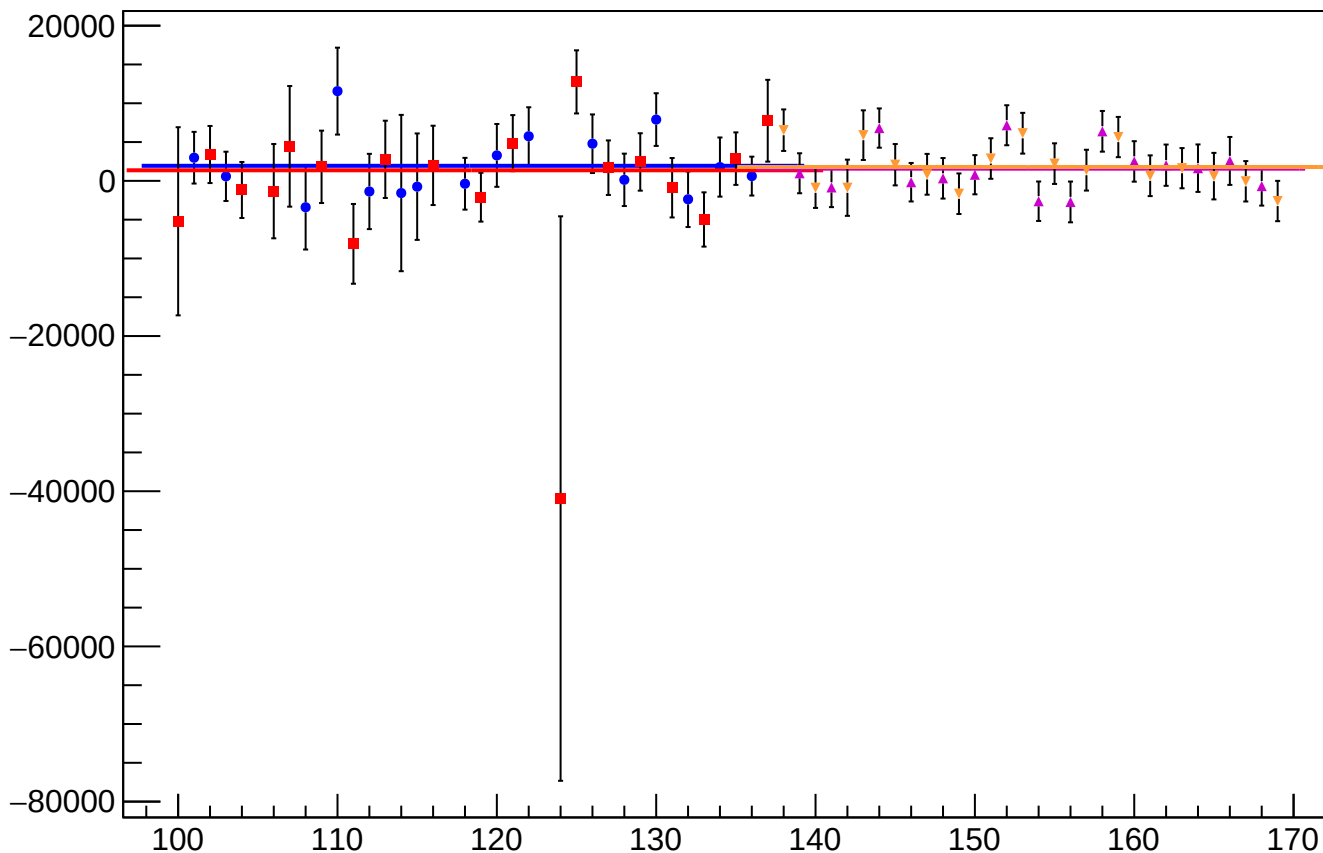
Right: 991.460+/-0.201 χ^2/NDF : 3692906.6/34

In: 844.537+/-0.143 χ^2/NDF :3358337.0/30

Out: 789.697+/-0.132 χ^2/NDF :4382682.1/35

All: 814.912+/-0.097 χ^2/NDF : 7820930.1/66

cor_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1940.005+/-952.537 χ^2/NDF : 12.2/15

Left Out: 1784.366+/-655.846 χ^2/NDF : 17.1/16

Right Out: 1363.089+/-985.420 χ^2/NDF : 21.7/18

Left In: 1569.272+/-677.181 χ^2/NDF : 20.6/14

Left: 1680.260+/-471.115 χ^2/NDF : 37.8/31

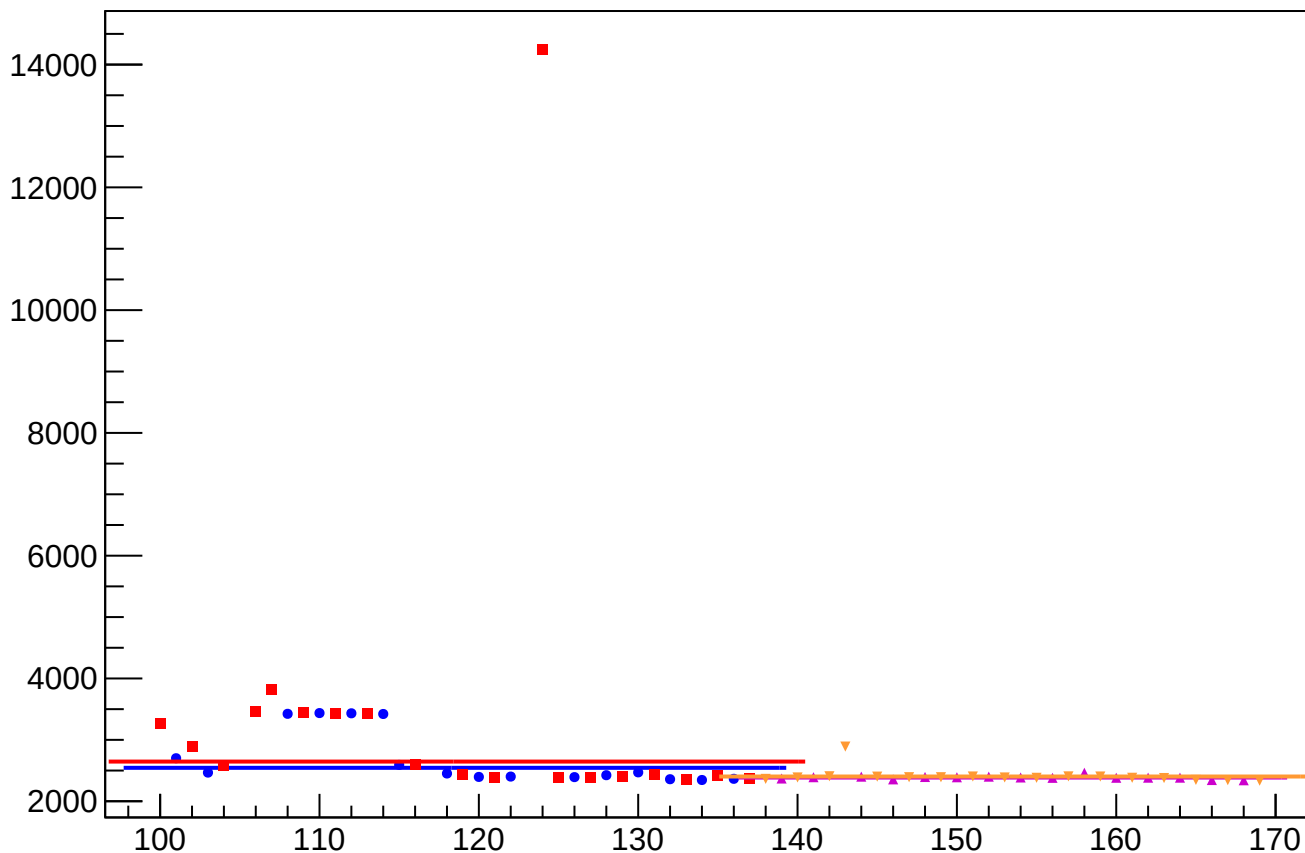
Right: 1661.333+/-684.876 χ^2/NDF : 34.1/34

In: 1693.738+/-551.921 χ^2/NDF : 32.9/30

Out: 1655.043+/-545.978 χ^2/NDF : 39.0/35

All: 1674.181+/-388.149 χ^2/NDF : 71.9/66

cor_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2544.416+/-0.674 χ^2/NDF : 225614.0/15

Left Out: 2402.803+/-0.464 χ^2/NDF : 50613.2/16

Right Out: 2646.203+/-0.697 χ^2/NDF : 539546.8/18

Left In: 2385.700+/-0.479 χ^2/NDF : 3266.4/14

Left: 2394.525+/-0.333 χ^2/NDF : 54537.8/31

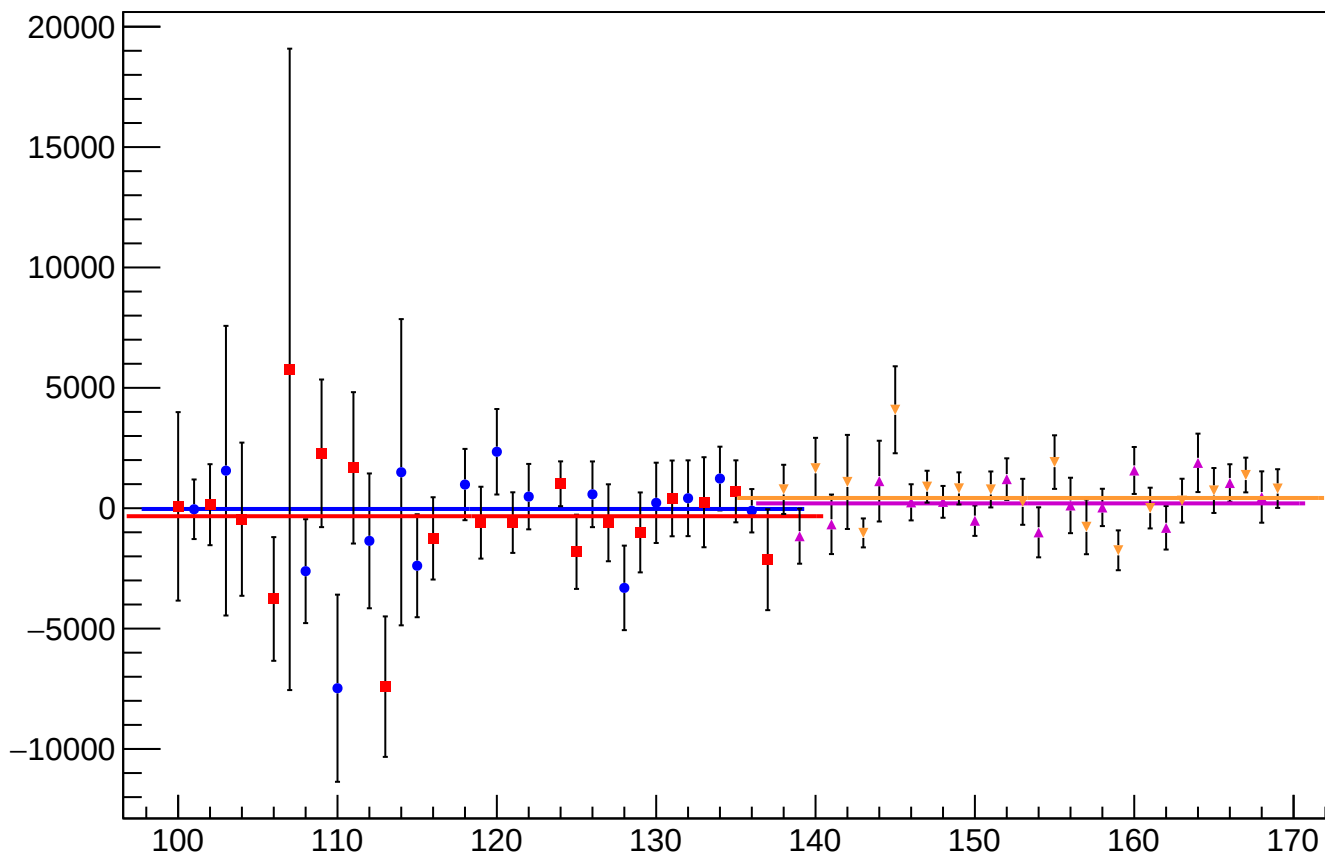
Right: 2593.583+/-0.484 χ^2/NDF : 776192.2/34

In: 2438.986+/-0.390 χ^2/NDF : 265765.7/30

Out: 2477.521+/-0.386 χ^2/NDF : 674722.1/35

All: 2458.462+/-0.274 χ^2/NDF : 945415.6/66

asym_atl1_cor_correction_mean vs Slug, Sign Corrected



Right In: -31.253 ± 405.723 χ^2/NDF : 13.8/15

Left Out: 425.785 ± 210.359 χ^2/NDF : 24.4/16

Right Out: -331.962 ± 399.334 χ^2/NDF : 14.4/18

Left In: 200.802 ± 232.379 χ^2/NDF : 12.7/14

Left: 324.455 ± 155.951 χ^2/NDF : 37.6/31

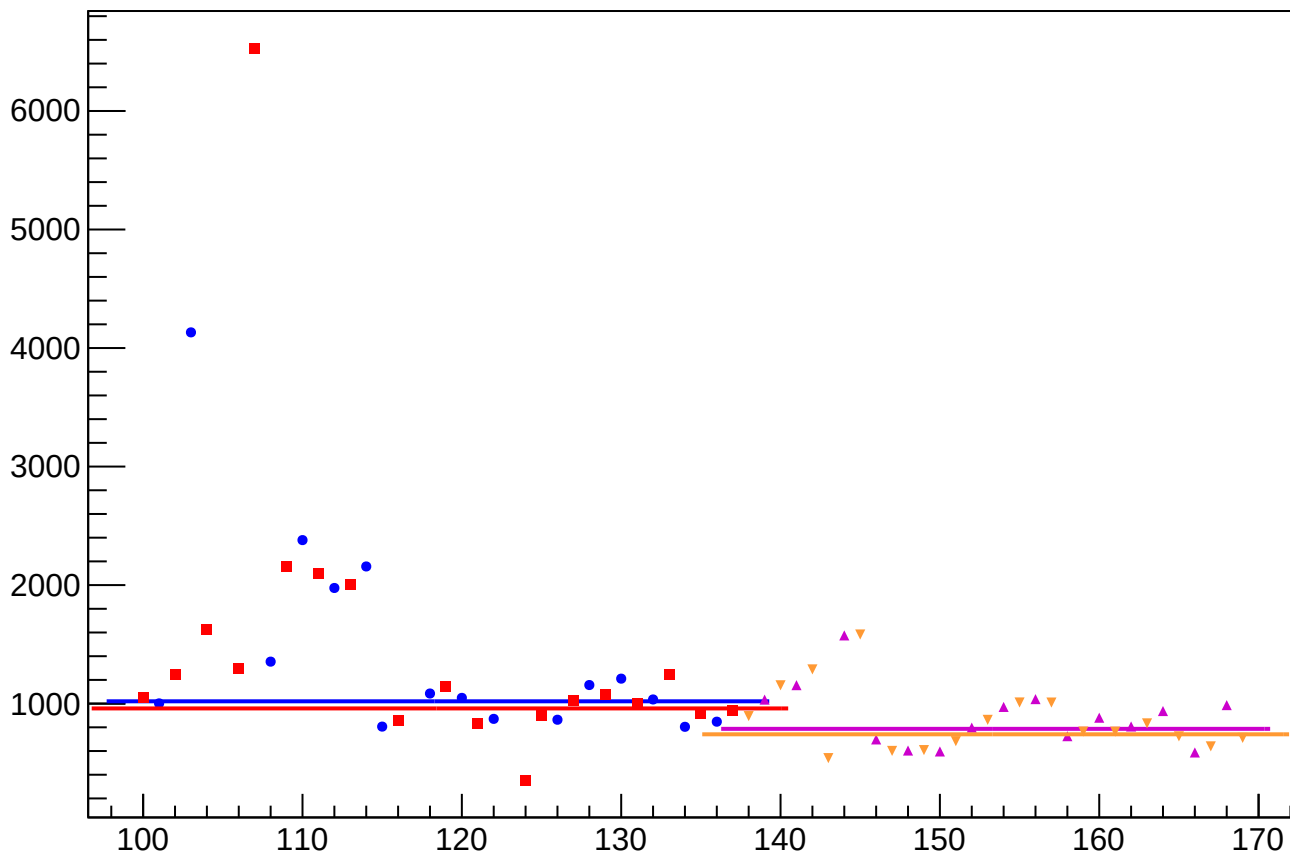
Right: -183.994 ± 284.604 χ^2/NDF : 28.5/34

In: 143.481 ± 201.646 χ^2/NDF : 26.7/30

Out: 261.190 ± 186.115 χ^2/NDF : 41.6/35

All: 207.043 ± 136.765 χ^2/NDF : 68.5/66

asym_atl1_cor_correction_rms vs Slug, Sign Corrected



Right In: 1019.514 ± 0.287 $\chi^2/\text{NDF}: 1364741.0/15$

Left Out: 741.046 ± 0.149 $\chi^2/\text{NDF}: 1582153.0/16$

Right Out: 959.344 ± 0.282 $\chi^2/\text{NDF}: 2344434.8/18$

Left In: 787.133 ± 0.164 $\chi^2/\text{NDF}: 1499709.5/14$

Left: 761.803 ± 0.110 $\chi^2/\text{NDF}: 3125097.5/31$

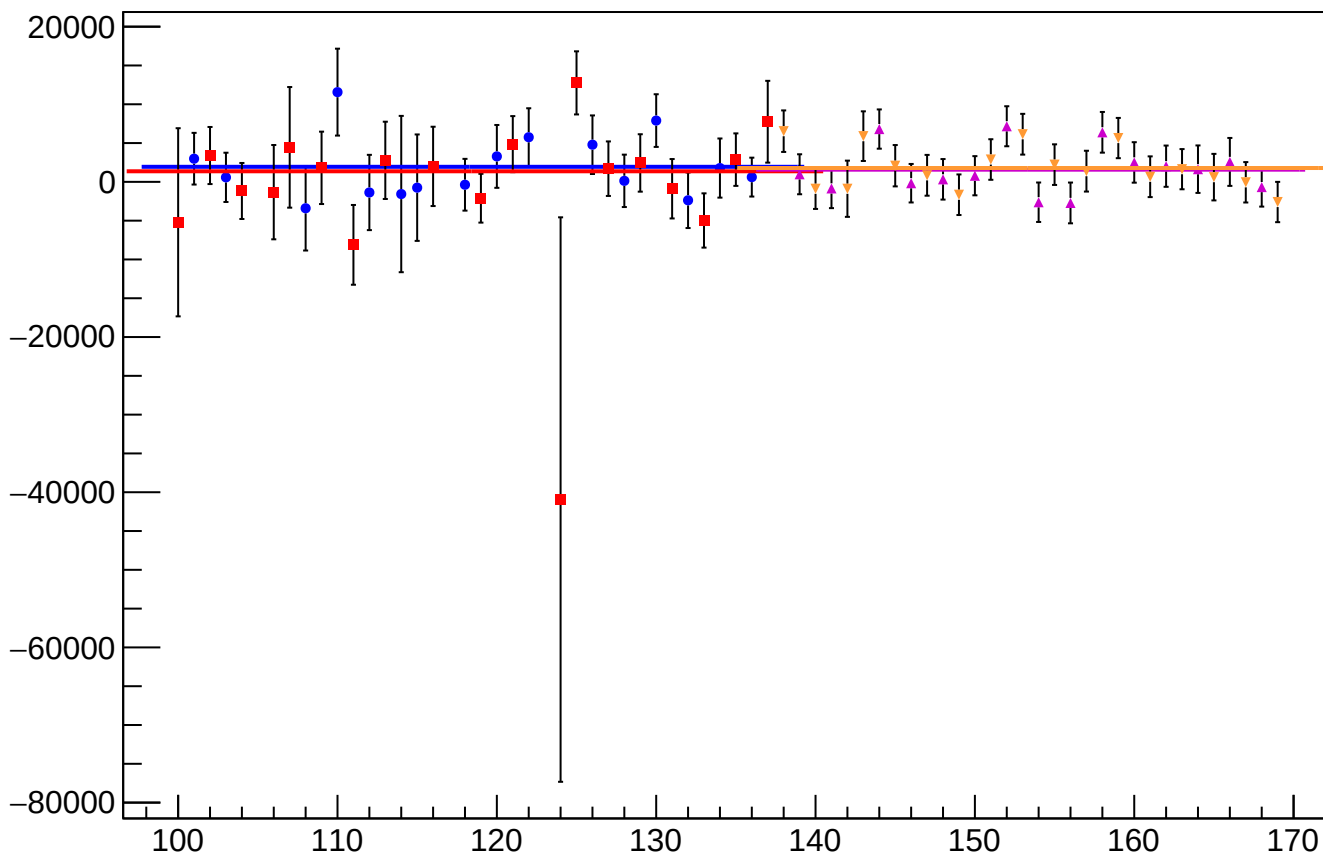
Right: 988.952 ± 0.201 $\chi^2/\text{NDF}: 3731518.7/34$

In: 844.534 ± 0.143 $\chi^2/\text{NDF}: 3358489.5/30$

Out: 788.464 ± 0.132 $\chi^2/\text{NDF}: 4394427.8/35$

All: 814.257 ± 0.097 $\chi^2/\text{NDF}: 7836418.4/66$

eigen_cor_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1940.005 $\pm$ 952.537 χ^2/NDF : 12.2/15

Left Out: 1784.366 $\pm$ 655.846 χ^2/NDF : 17.1/16

Right Out: 1363.089 $\pm$ 985.420 χ^2/NDF : 21.7/18

Left In: 1569.272 $\pm$ 677.181 χ^2/NDF : 20.6/14

Left: 1680.260 $\pm$ 471.115 χ^2/NDF : 37.8/31

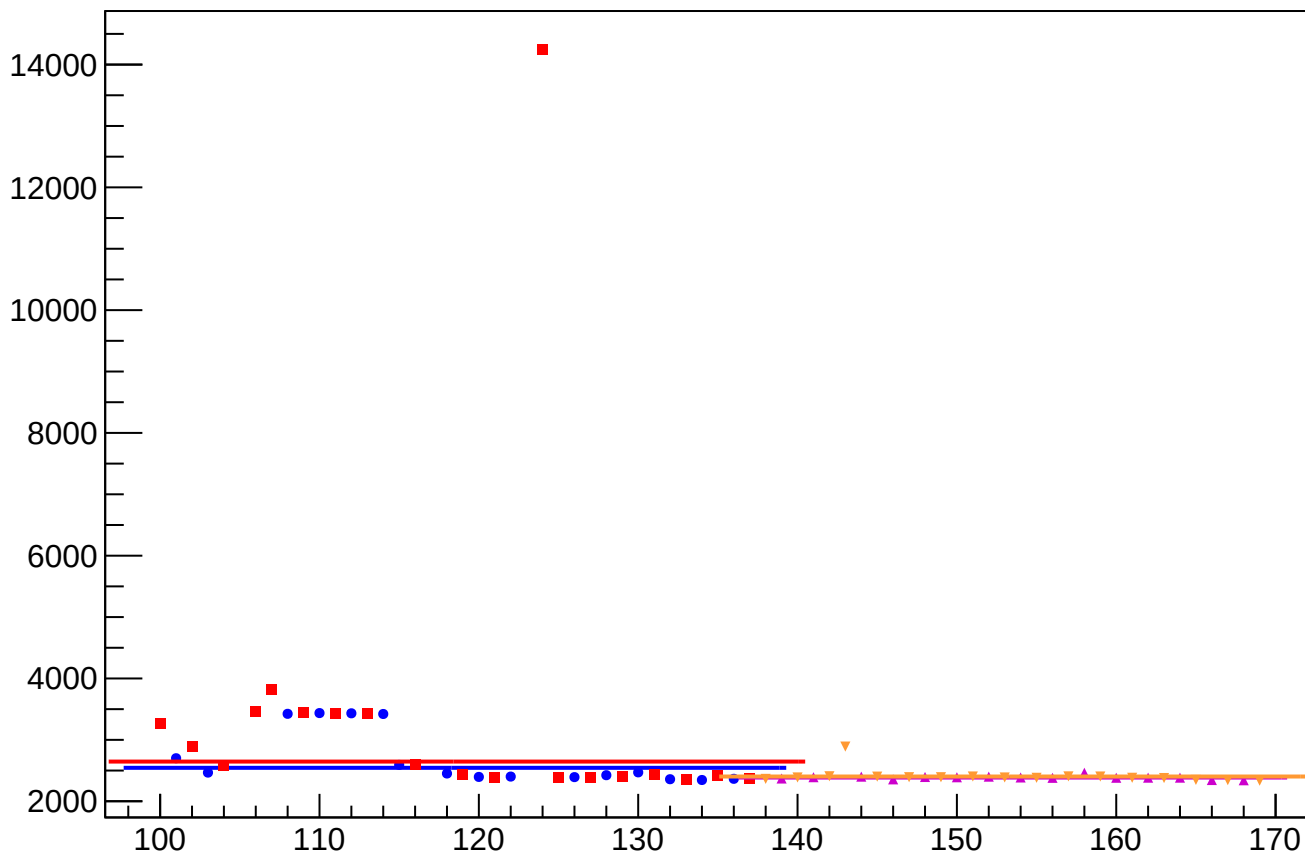
Right: 1661.333 $\pm$ 684.876 χ^2/NDF : 34.1/34

In: 1693.738 $\pm$ 551.921 χ^2/NDF : 32.9/30

Out: 1655.043 $\pm$ 545.978 χ^2/NDF : 39.0/35

All: 1674.181 $\pm$ 388.149 χ^2/NDF : 71.9/66

eigen_cor_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2544.416+/-0.674 χ^2/NDF : 225614.0/15

Left Out: 2402.803+/-0.464 χ^2/NDF : 50613.2/16

Right Out: 2646.203+/-0.697 χ^2/NDF : 539546.8/18

Left In: 2385.700+/-0.479 χ^2/NDF : 3266.4/14

Left: 2394.525+/-0.333 χ^2/NDF : 54537.8/31

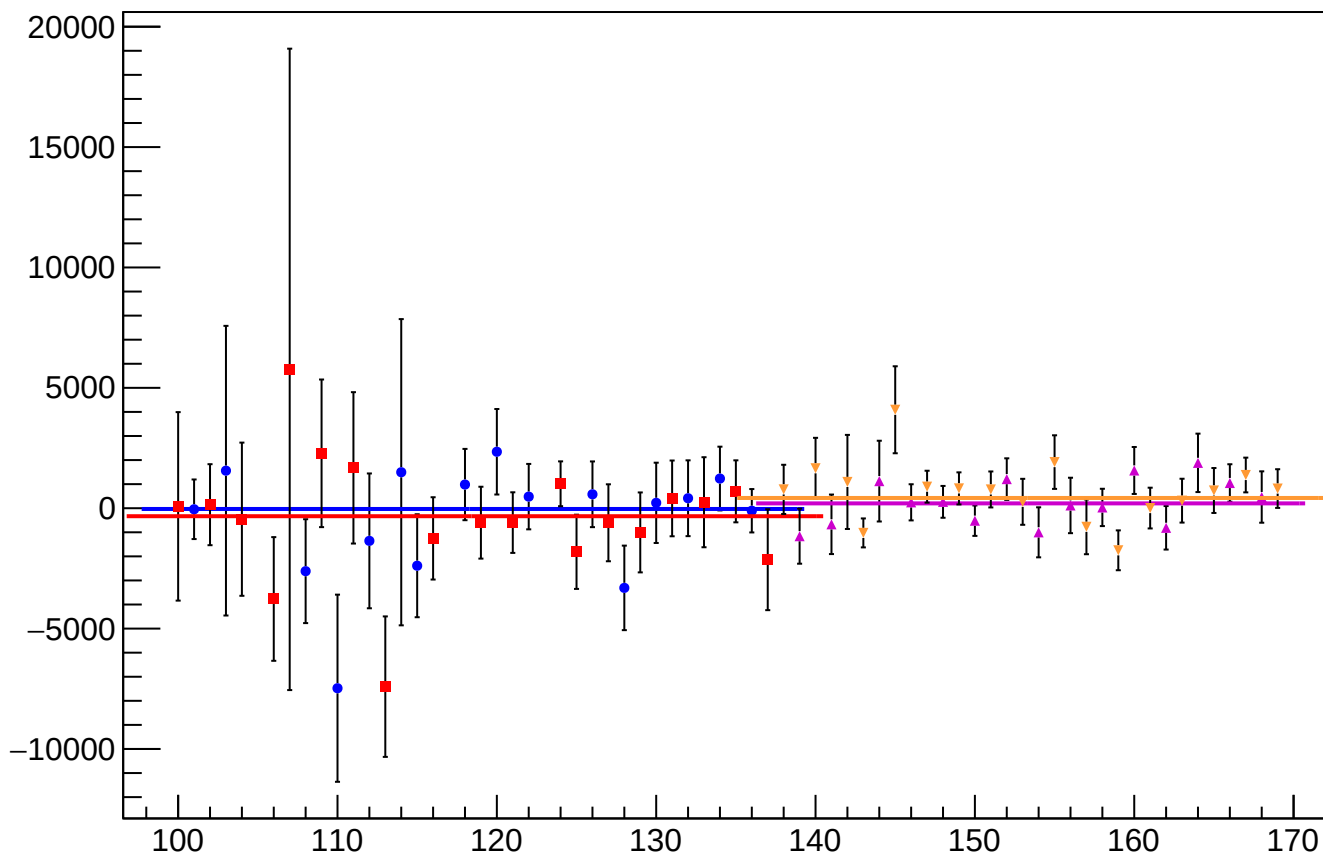
Right: 2593.583+/-0.484 χ^2/NDF : 776192.2/34

In: 2438.986+/-0.390 χ^2/NDF : 265765.7/30

Out: 2477.521+/-0.386 χ^2/NDF : 674722.1/35

All: 2458.462+/-0.274 χ^2/NDF : 945415.6/66

asym_atl1_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -31.253 ± 405.723 χ^2/NDF : 13.8/15

Left Out: 425.785 ± 210.359 χ^2/NDF : 24.4/16

Right Out: -331.962 ± 399.334 χ^2/NDF : 14.4/18

Left In: 200.802 ± 232.379 χ^2/NDF : 12.7/14

Left: 324.455 ± 155.951 χ^2/NDF : 37.6/31

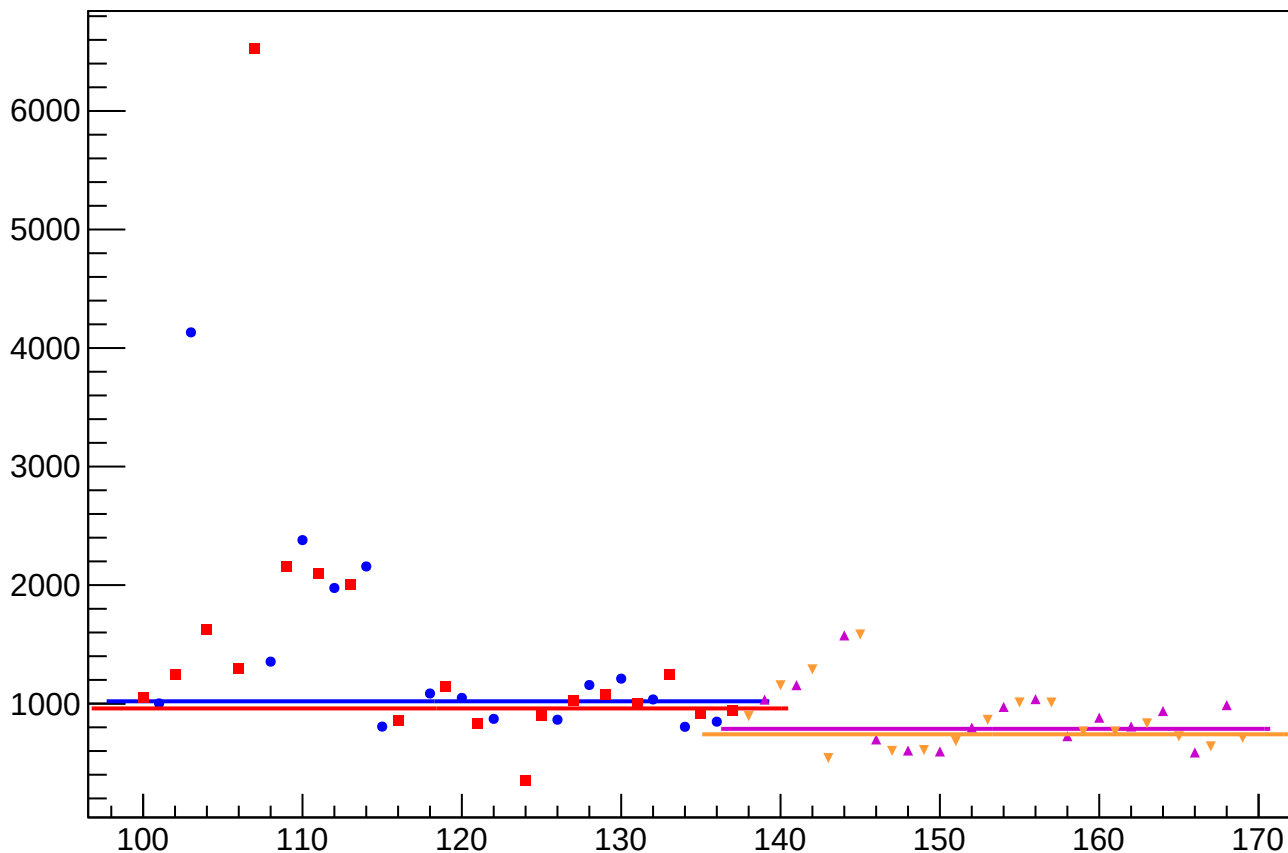
Right: -183.994 ± 284.604 χ^2/NDF : 28.5/34

In: 143.481 ± 201.646 χ^2/NDF : 26.7/30

Out: 261.190 ± 186.115 χ^2/NDF : 41.6/35

All: 207.043 ± 136.765 χ^2/NDF : 68.5/66

asym_atl1_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1019.514 ± 0.287 $\chi^2/\text{NDF}: 1364741.0/15$

Left Out: 741.046 ± 0.149 $\chi^2/\text{NDF}: 1582153.0/16$

Right Out: 959.344 ± 0.282 $\chi^2/\text{NDF}: 2344434.8/18$

Left In: 787.133 ± 0.164 $\chi^2/\text{NDF}: 1499709.5/14$

Left: 761.803 ± 0.110 $\chi^2/\text{NDF}: 3125097.5/31$

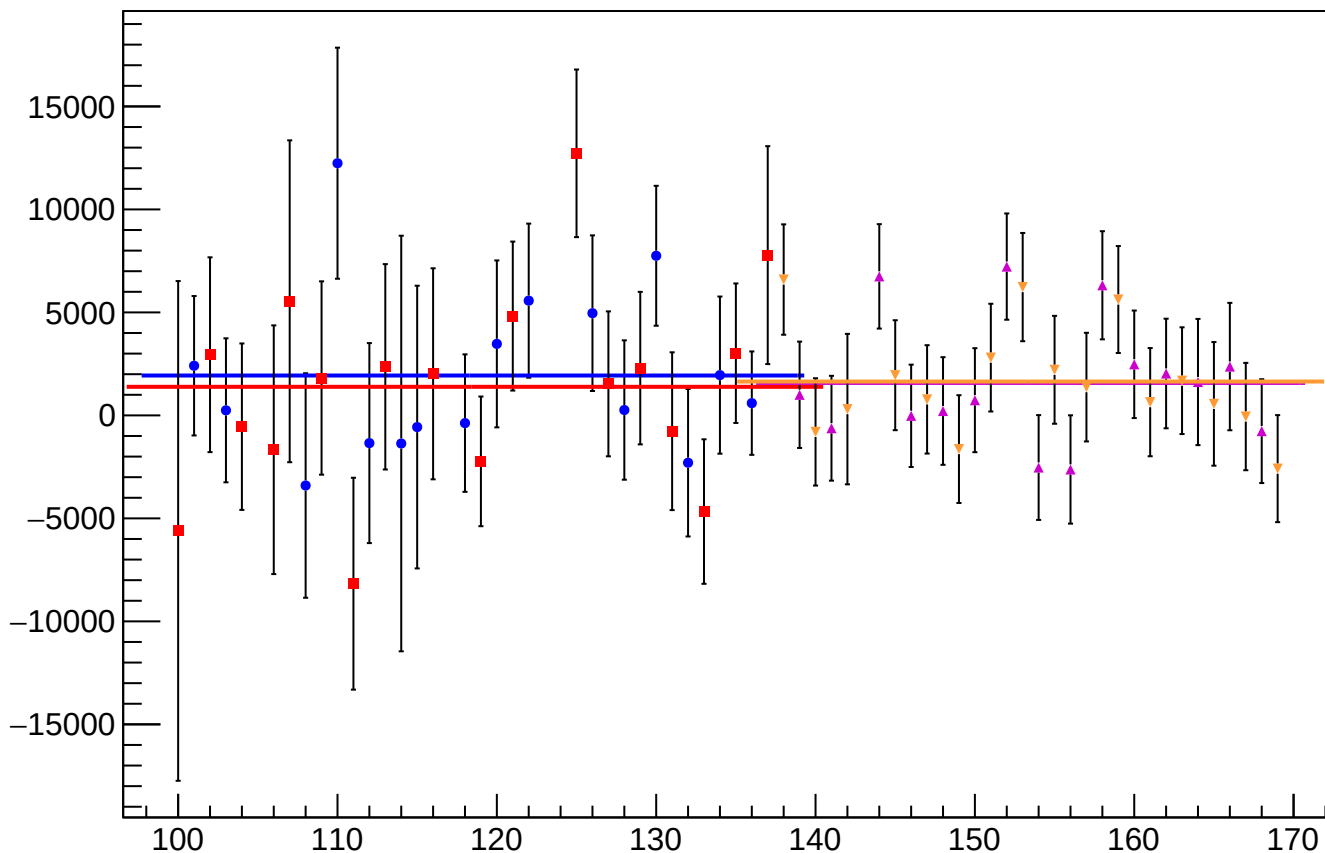
Right: 988.952 ± 0.201 $\chi^2/\text{NDF}: 3731518.7/34$

In: 844.534 ± 0.143 $\chi^2/\text{NDF}: 3358489.5/30$

Out: 788.464 ± 0.132 $\chi^2/\text{NDF}: 4394427.8/35$

All: 814.257 ± 0.097 $\chi^2/\text{NDF}: 7836418.4/66$

dit_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1935.992 $\pm$ 962.322 χ^2 /NDF: 12.4/15

Left Out: 1643.749 $\pm$ 670.883 χ^2 /NDF:15.1/15

Right Out: 1387.548 $\pm$ 1009.105 χ^2 /NDF: 19.8/17

Left In: 1576.316 $\pm$ 677.818 χ^2 /NDF:20.0/14

Left: 1610.379 $\pm$ 476.819 χ^2 /NDF: 35.2/30

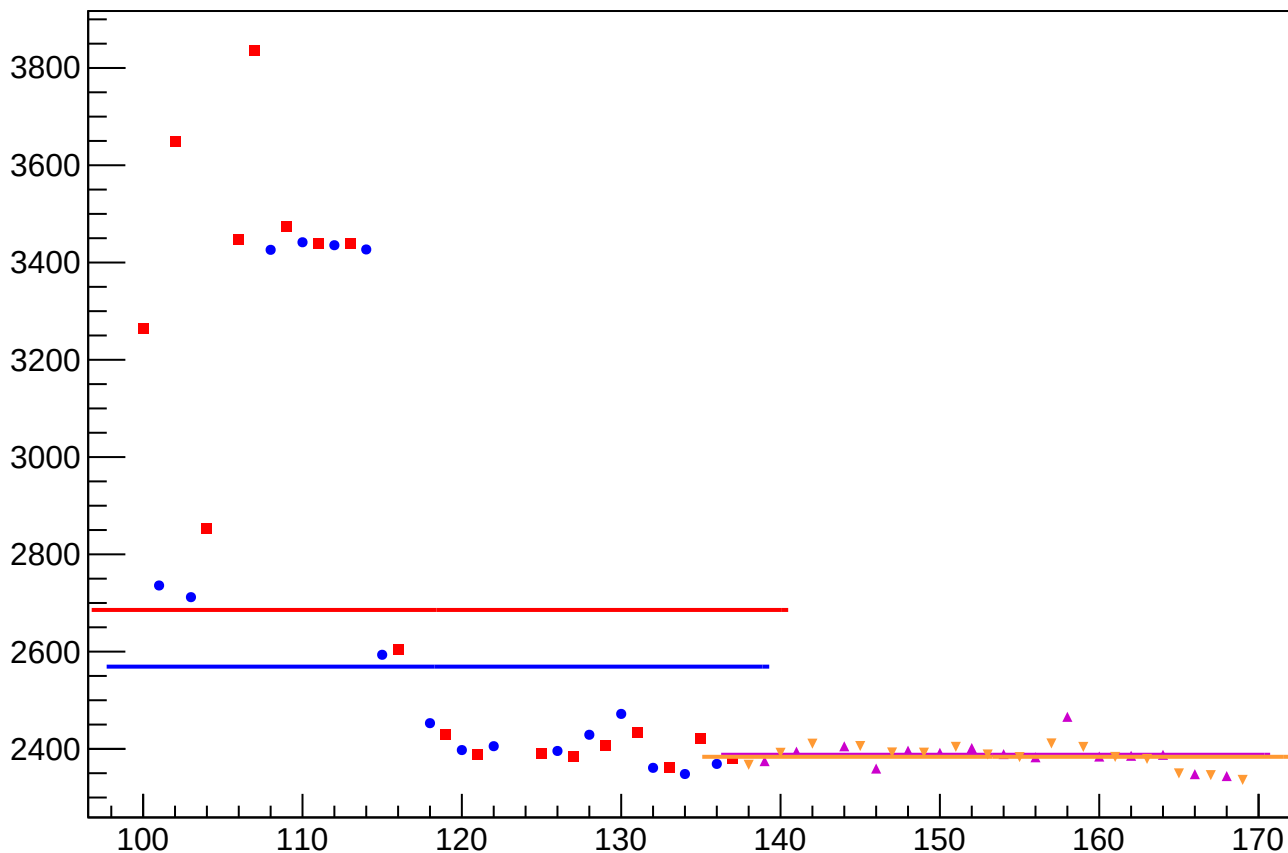
Right: 1674.777 $\pm$ 696.416 χ^2 /NDF: 32.3/33

In: 1695.586 $\pm$ 554.154 χ^2 /NDF:32.5/30

Out: 1565.218 $\pm$ 558.682 χ^2 /NDF:34.9/33

All: 1630.932 $\pm$ 393.437 χ^2 /NDF: 67.5/64

dit_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2569.130+/-0.680 χ^2/NDF : 229487.5/15

Left Out: 2383.744+/-0.474 χ^2/NDF : 2206.0/15

Right Out: 2685.675+/-0.714 χ^2/NDF : 419264.8/17

Left In: 2387.933+/-0.479 χ^2/NDF : 3219.4/14

Left: 2385.817+/-0.337 χ^2/NDF : 5464.0/30

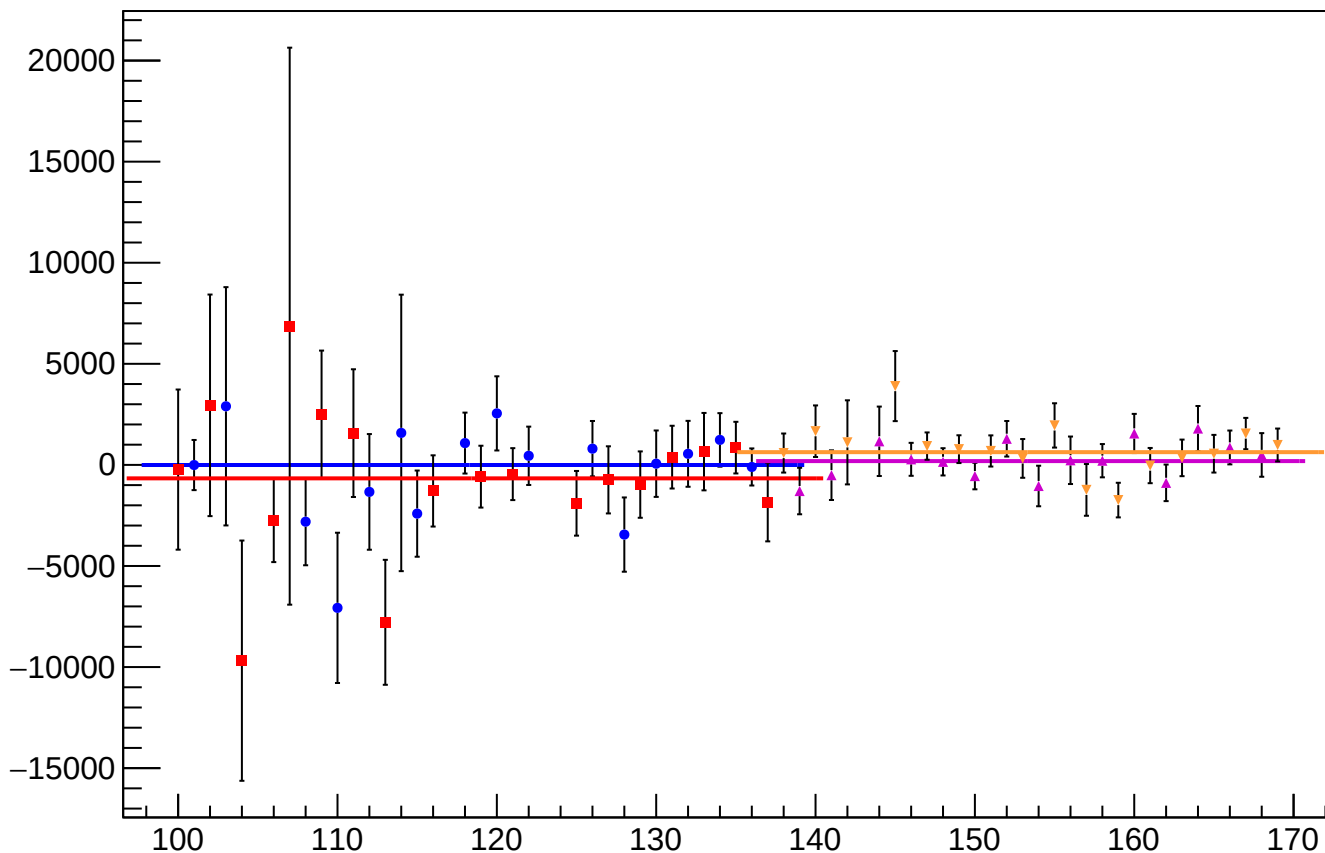
Right: 2624.638+/-0.492 χ^2/NDF : 662723.7/33

In: 2448.019+/-0.392 χ^2/NDF : 280101.1/30

Out: 2476.291+/-0.395 χ^2/NDF : 545638.1/33

All: 2462.040+/-0.278 χ^2/NDF : 828320.9/64

asym_atl1_dit_correction_mean vs Slug, Sign Corrected



Right In: -5.169 ± 412.248 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 630.787 ± 229.382 $\chi^2/\text{NDF}: 18.2/15$

Right Out: -665.952 ± 460.513 $\chi^2/\text{NDF}: 14.4/17$

Left In: 188.105 ± 237.949 $\chi^2/\text{NDF}: 12.9/14$

Left: 417.558 ± 165.143 $\chi^2/\text{NDF}: 32.9/30$

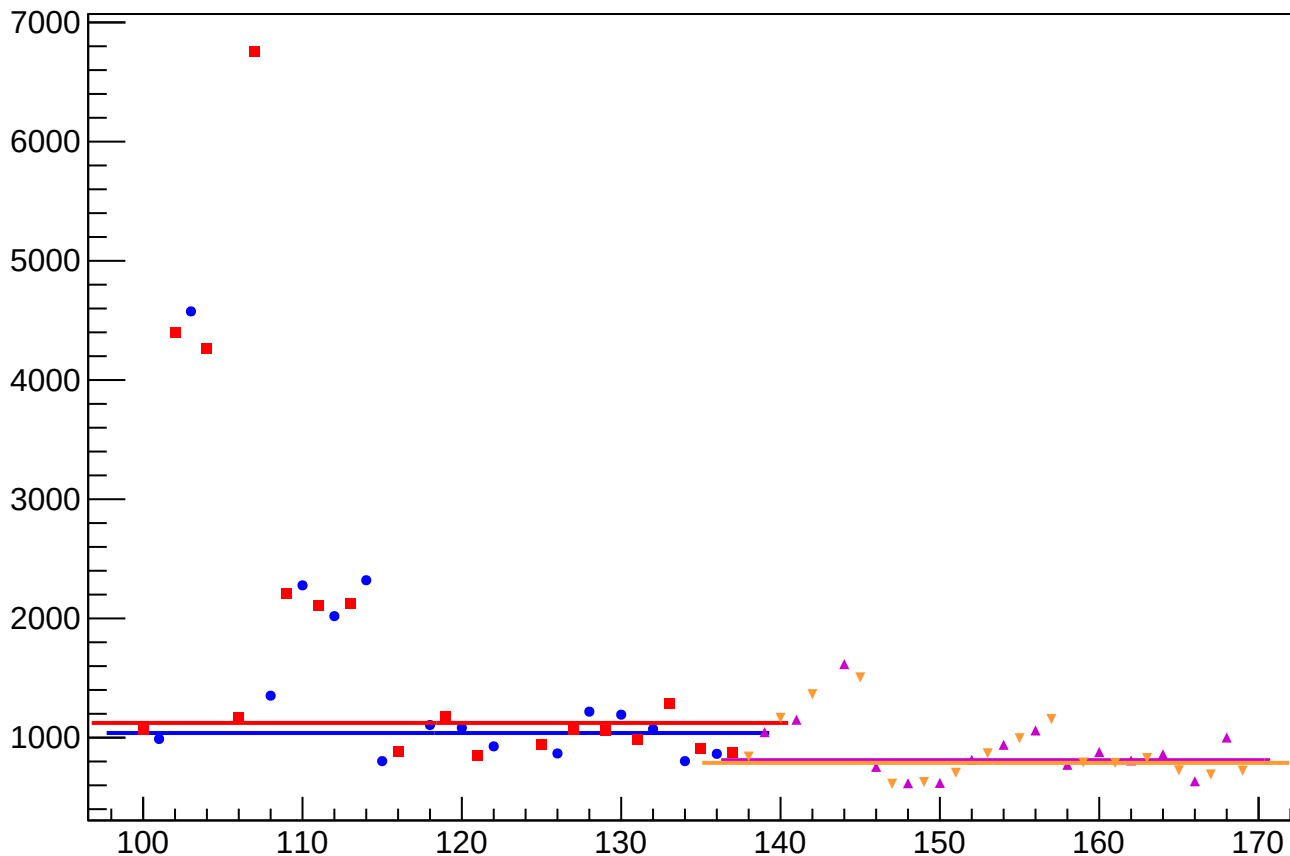
Right: -299.130 ± 307.154 $\chi^2/\text{NDF}: 30.0/33$

In: 139.806 ± 206.083 $\chi^2/\text{NDF}: 27.6/30$

Out: 373.014 ± 205.321 $\chi^2/\text{NDF}: 38.9/33$

All: 256.842 ± 145.453 $\chi^2/\text{NDF}: 67.1/64$

asym_atl1_dit_correction_rms vs Slug, Sign Corrected



Right In: 1038.803 $\pm$ 0.292 χ^2 /NDF: 1539731.1/15

Left Out: 788.495 $\pm$ 0.162 χ^2 /NDF:1252066.8/15

Right Out: 1123.474 $\pm$ 0.326 χ^2 /NDF: 2535511.7/17

Left In: 810.972 $\pm$ 0.168 χ^2 /NDF:1314348.5/14

Left: 799.321 $\pm$ 0.117 χ^2 /NDF: 2575665.2/30

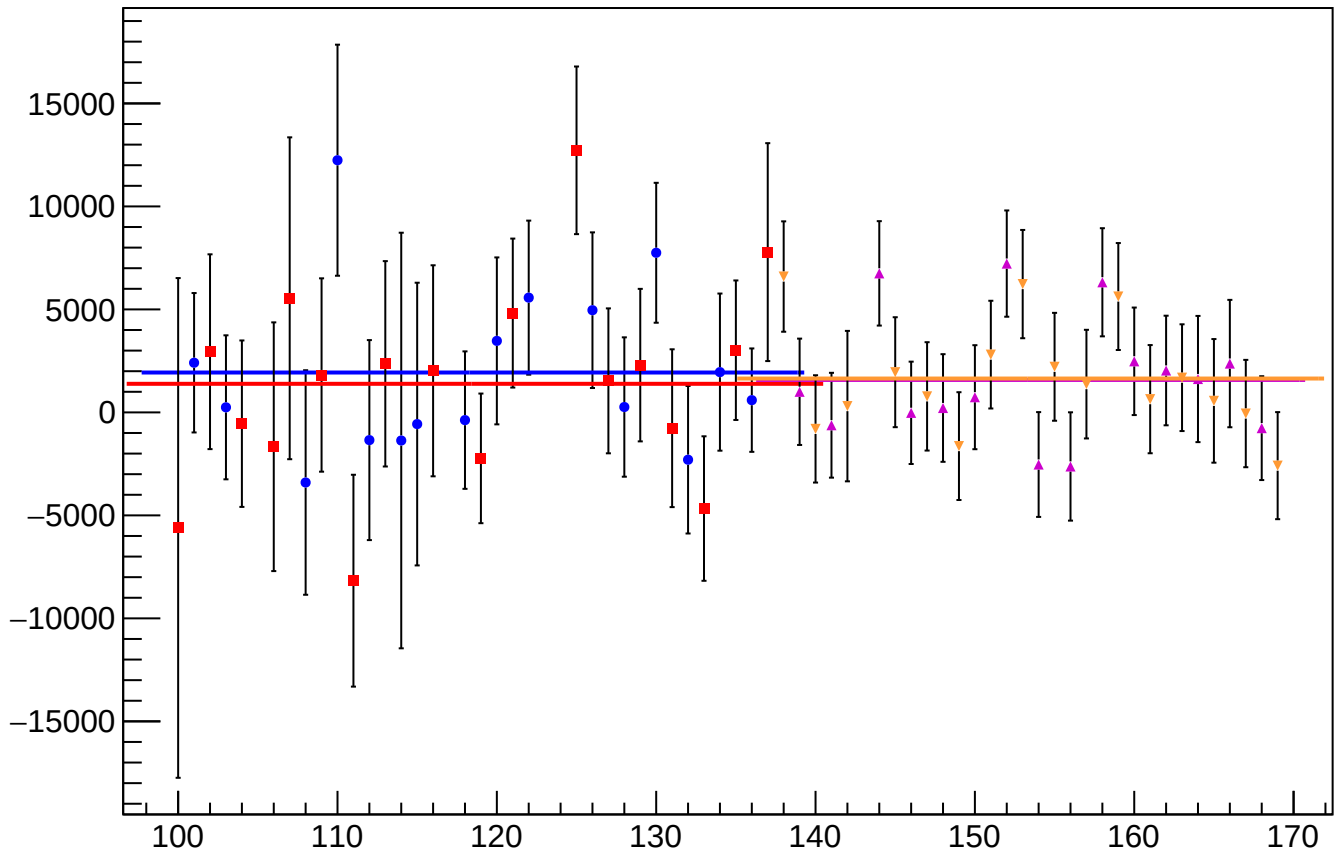
Right: 1076.470 $\pm$ 0.217 χ^2 /NDF: 4112776.2/33

In: 867.907 $\pm$ 0.146 χ^2 /NDF:3312282.7/30

Out: 855.084 $\pm$ 0.145 χ^2 /NDF:4635454.4/33

All: 861.472 $\pm$ 0.103 χ^2 /NDF: 7951623.3/64

eigen_dit_asym_atl1_mean vs Slug, Sign Corrected



Right In: 1935.988 $\pm$ 962.322 χ^2 /NDF: 12.4/15

Left Out: 1643.749 $\pm$ 670.883 χ^2 /NDF:15.1/15

Right Out: 1387.545 $\pm$ 1009.105 χ^2 /NDF: 19.8/17

Left In: 1576.317 $\pm$ 677.818 χ^2 /NDF:20.0/14

Left: 1610.379 $\pm$ 476.819 χ^2 /NDF: 35.2/30

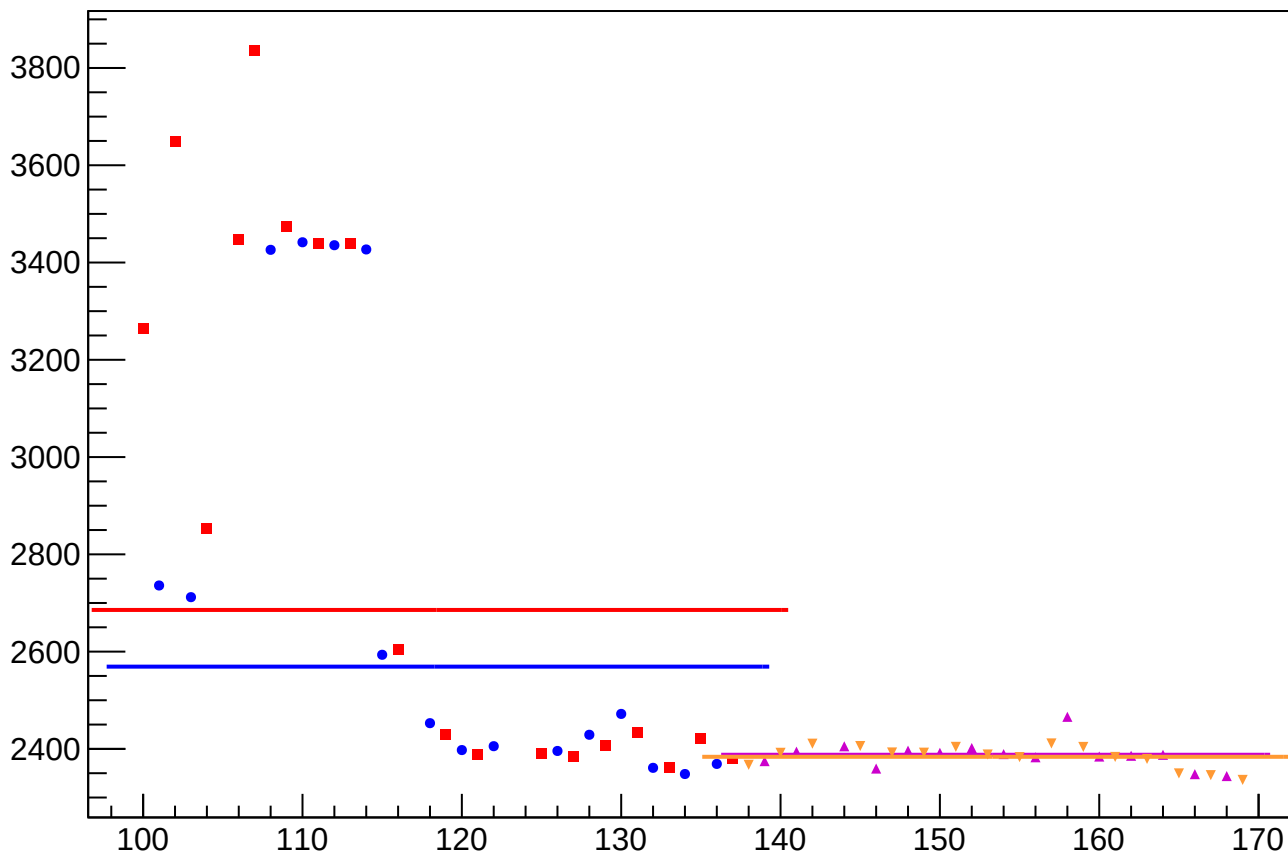
Right: 1674.774 $\pm$ 696.416 χ^2 /NDF: 32.3/33

In: 1695.585 $\pm$ 554.154 χ^2 /NDF:32.5/30

Out: 1565.218 $\pm$ 558.682 χ^2 /NDF:34.9/33

All: 1630.932 $\pm$ 393.437 χ^2 /NDF: 67.5/64

eigen_dit_asym_atl1_rms vs Slug, Sign Corrected



Right In: 2569.130+/-0.680 χ^2/NDF : 229487.3/15

Left Out: 2383.744+/-0.474 χ^2/NDF : 2206.0/15

Right Out: 2685.674+/-0.714 χ^2/NDF : 419264.2/17

Left In: 2387.933+/-0.479 χ^2/NDF : 3219.4/14

Left: 2385.817+/-0.337 χ^2/NDF : 5464.0/30

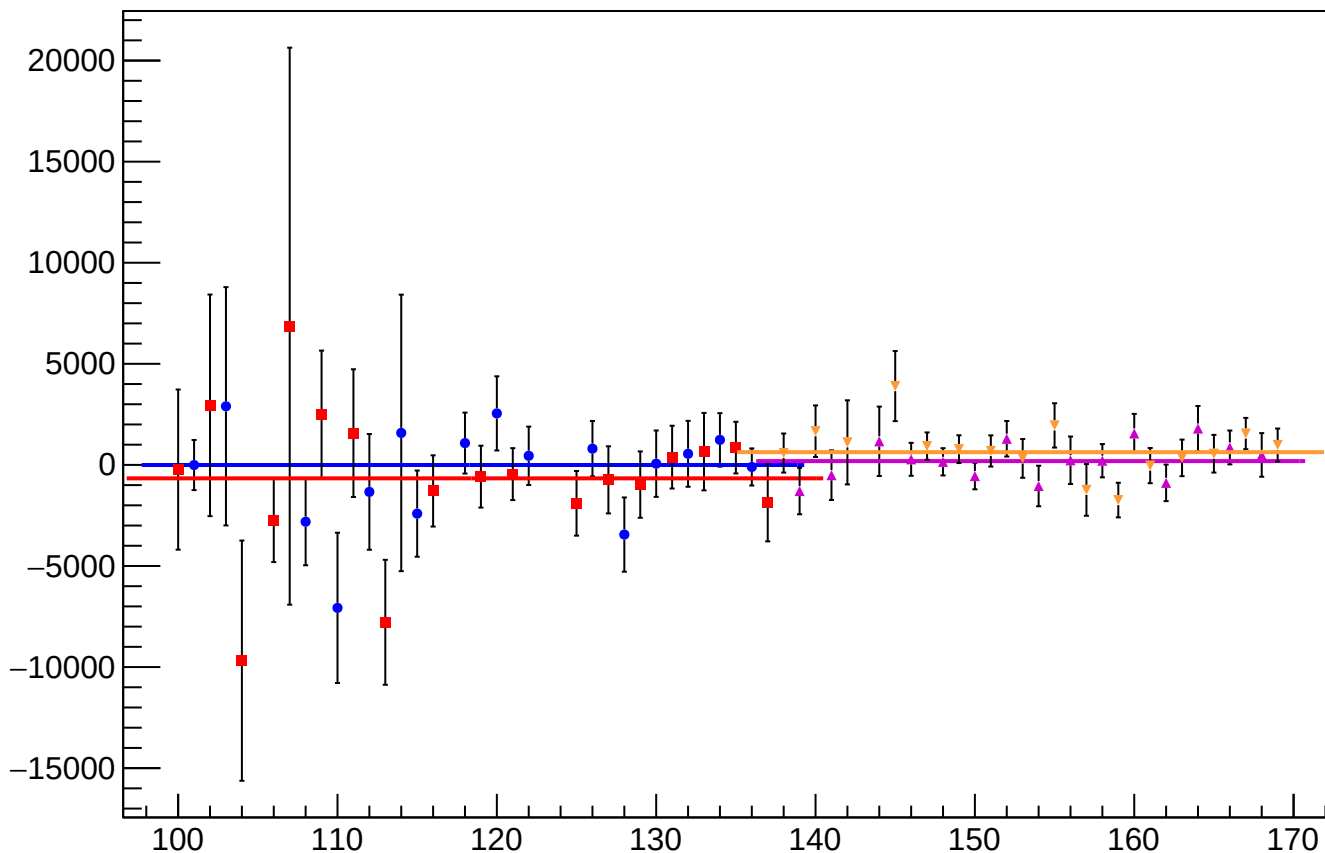
Right: 2624.638+/-0.492 χ^2/NDF : 662722.8/33

In: 2448.019+/-0.392 χ^2/NDF : 280100.6/30

Out: 2476.291+/-0.395 χ^2/NDF : 545637.1/33

All: 2462.040+/-0.278 χ^2/NDF : 828319.6/64

asym_atl1_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -5.172 ± 412.248 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 630.786 ± 229.382 $\chi^2/\text{NDF}: 18.2/15$

Right Out: -665.953 ± 460.513 $\chi^2/\text{NDF}: 14.4/17$

Left In: 188.105 ± 237.949 $\chi^2/\text{NDF}: 12.9/14$

Left: 417.558 ± 165.143 $\chi^2/\text{NDF}: 32.9/30$

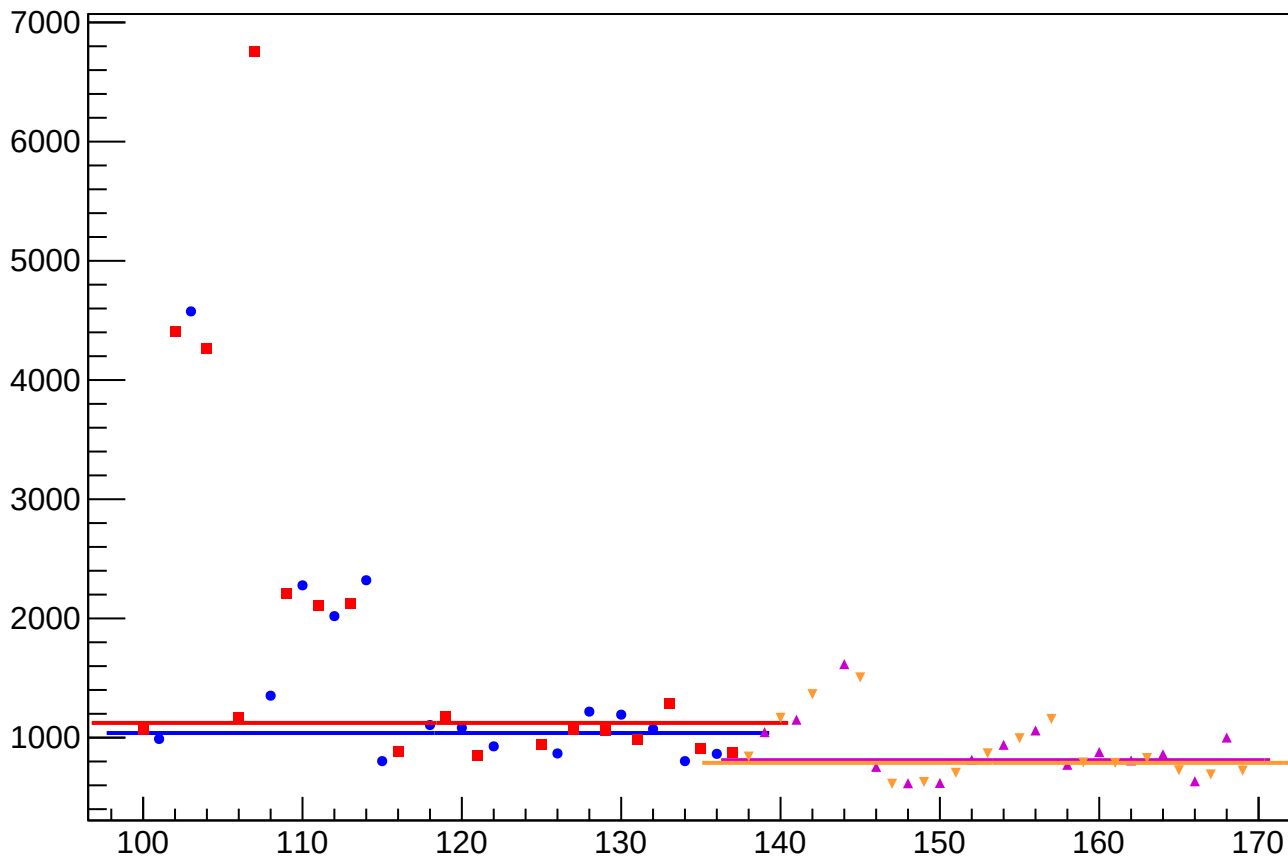
Right: -299.132 ± 307.154 $\chi^2/\text{NDF}: 30.0/33$

In: 139.805 ± 206.084 $\chi^2/\text{NDF}: 27.6/30$

Out: 373.013 ± 205.321 $\chi^2/\text{NDF}: 38.9/33$

All: 256.841 ± 145.453 $\chi^2/\text{NDF}: 67.1/64$

asym_atl1_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1038.804 $\pm$ 0.292 χ^2/NDF : 1539724.8/15

Left Out: 788.496 $\pm$ 0.162 χ^2/NDF : 1252064.5/15

Right Out: 1123.474 $\pm$ 0.326 χ^2/NDF : 2535509.9/17

Left In: 810.973 $\pm$ 0.168 χ^2/NDF : 1314346.7/14

Left: 799.323 $\pm$ 0.117 χ^2/NDF : 2575661.0/30

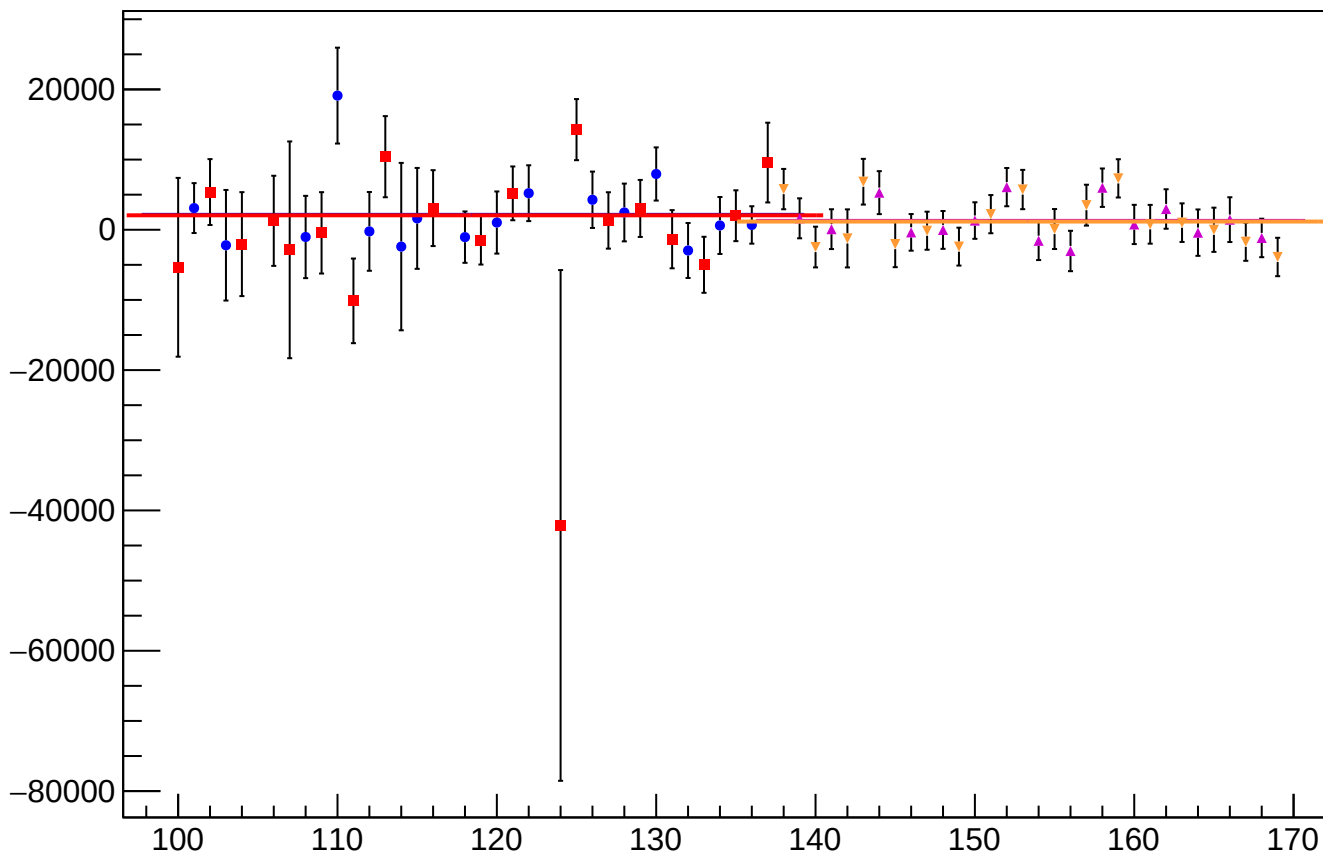
Right: 1076.471 $\pm$ 0.217 χ^2/NDF : 4112767.4/33

In: 867.908 $\pm$ 0.146 χ^2/NDF : 3312270.7/30

Out: 855.085 $\pm$ 0.145 χ^2/NDF : 4635442.3/33

All: 861.473 $\pm$ 0.103 χ^2/NDF : 7951599.2/64

asym_atl1_mean vs Slug, Sign Corrected



Right In: 2121.991 $\pm$ 1084.700 χ^2 /NDF: 13.4/15

Left Out: 1169.253 $\pm$ 702.066 χ^2 /NDF:23.8/16

Right Out: 2059.741 $\pm$ 1136.807 χ^2 /NDF: 24.3/18

Left In: 1260.552 $\pm$ 728.582 χ^2 /NDF:13.4/14

Left: 1213.211 $\pm$ 505.550 χ^2 /NDF: 37.2/31

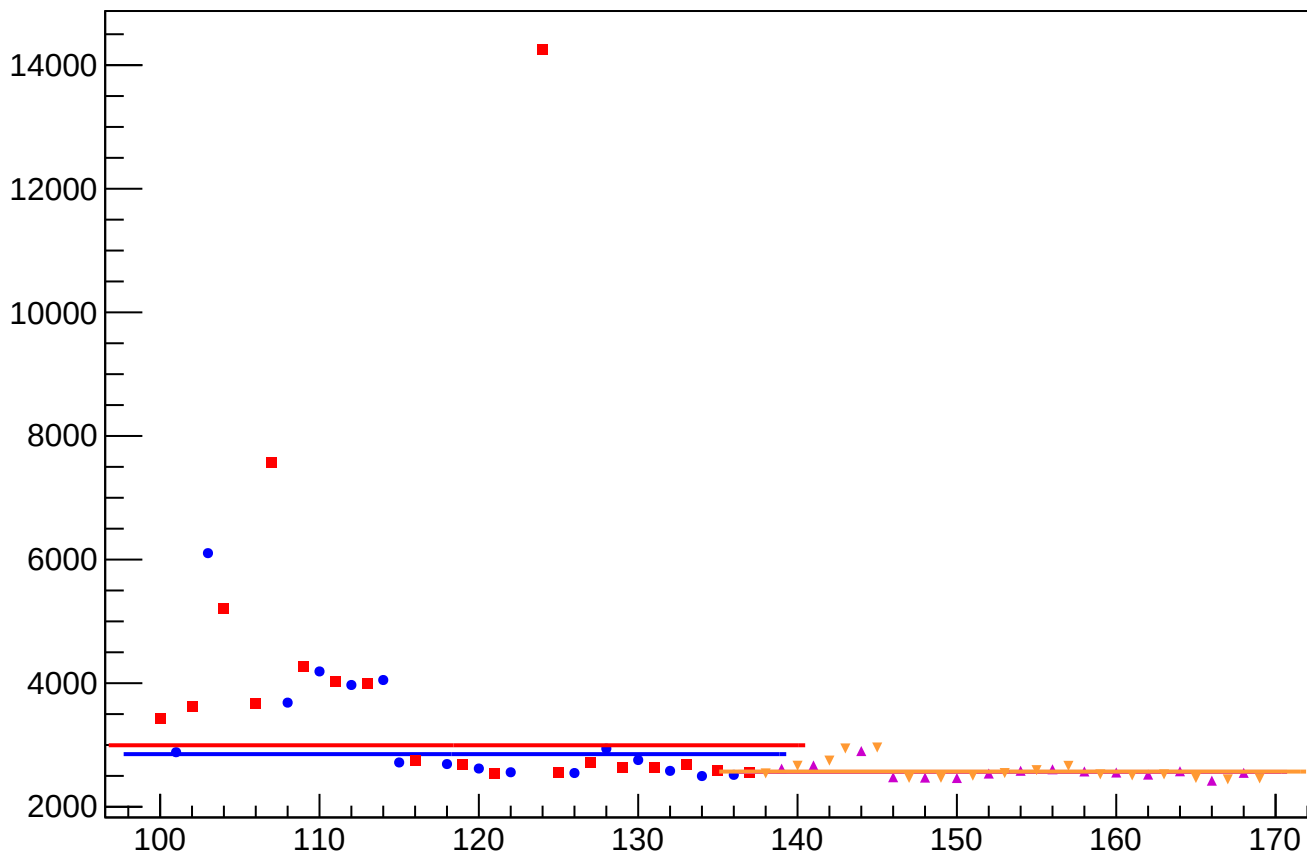
Right: 2092.326 $\pm$ 784.773 χ^2 /NDF: 37.7/34

In: 1528.373 $\pm$ 604.811 χ^2 /NDF:27.2/30

Out: 1415.115 $\pm$ 597.335 χ^2 /NDF:48.6/35

All: 1471.040 $\pm$ 424.998 χ^2 /NDF: 75.8/66

asym_atl1_rms vs Slug, Sign Corrected



Right In: 2852.206+/-0.767 χ^2/NDF : 648715.2/15

Left Out: 2569.952+/-0.496 χ^2/NDF : 81240.5/16

Right Out: 2995.525+/-0.804 χ^2/NDF : 979168.6/18

Left In: 2564.230+/-0.515 χ^2/NDF : 40333.7/14

Left: 2567.197+/-0.357 χ^2/NDF : 121638.2/31

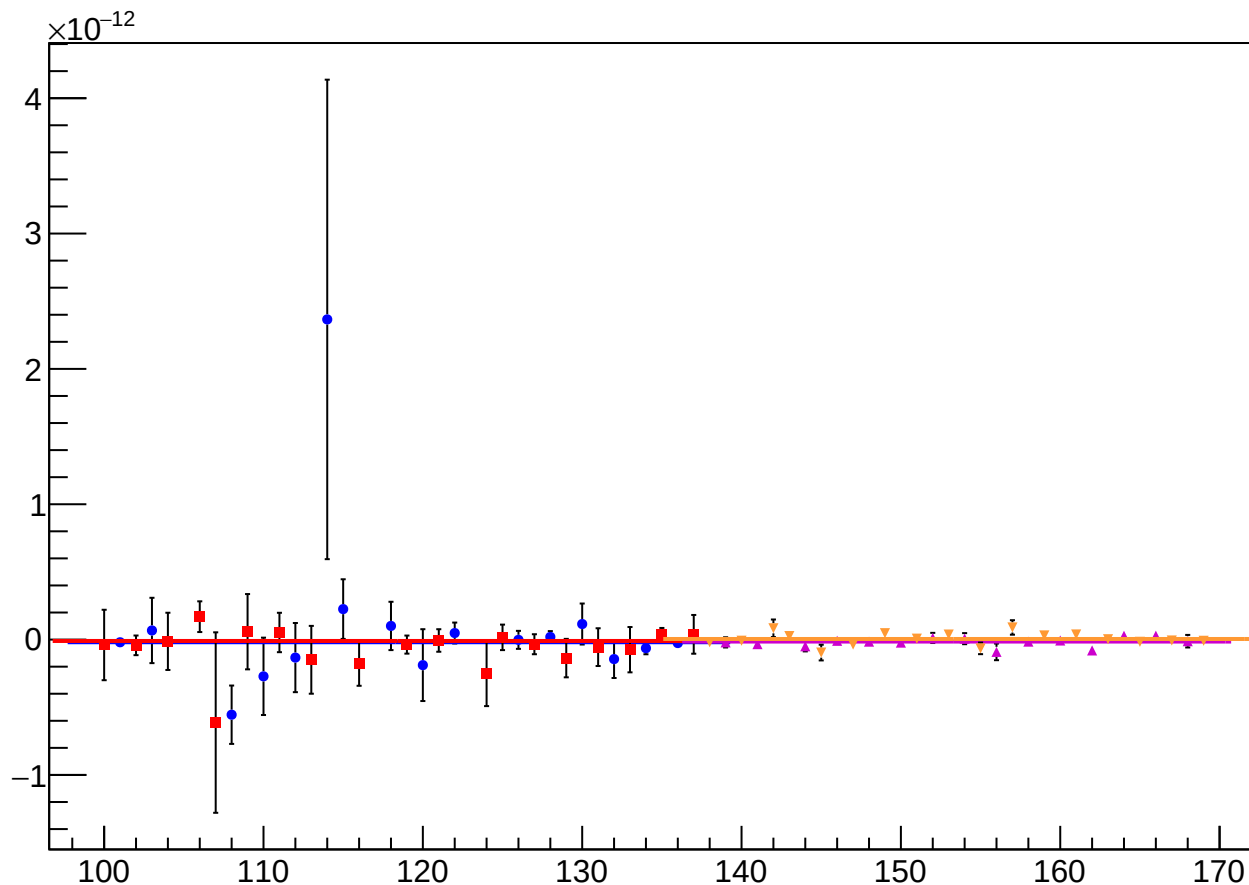
Right: 2920.506+/-0.555 χ^2/NDF : 1644523.2/34

In: 2653.762+/-0.428 χ^2/NDF : 786190.4/30

Out: 2687.452+/-0.422 χ^2/NDF : 1263310.5/35

All: 2670.816+/-0.301 χ^2/NDF : 2052642.4/66

asym_atl1_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 15.4/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 22.2/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 8.3/18

Left In: -0.000 ± 0.000 χ^2/NDF : 17.3/14

Left: -0.000 ± 0.000 χ^2/NDF : 43.1/31

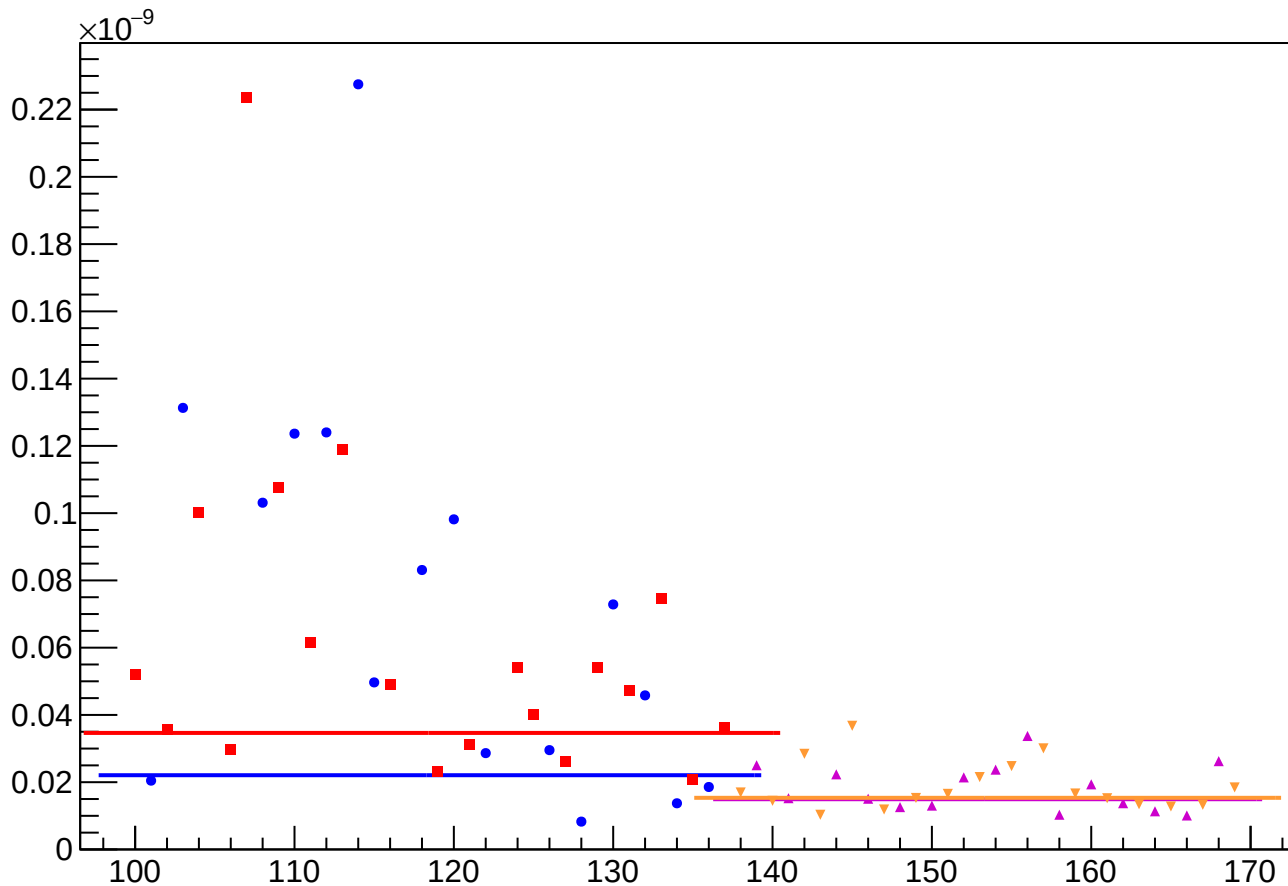
Right: -0.000 ± 0.000 χ^2/NDF : 23.8/34

In: -0.000 ± 0.000 χ^2/NDF : 32.8/30

Out: 0.000 ± 0.000 χ^2/NDF : 30.8/35

All: -0.000 ± 0.000 χ^2/NDF : 67.6/66

asym_atl1_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2344133.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 927427.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1242991.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 1003862.7/14

Left: 0.000+/-0.000 χ^2/NDF : 1934696.6/31

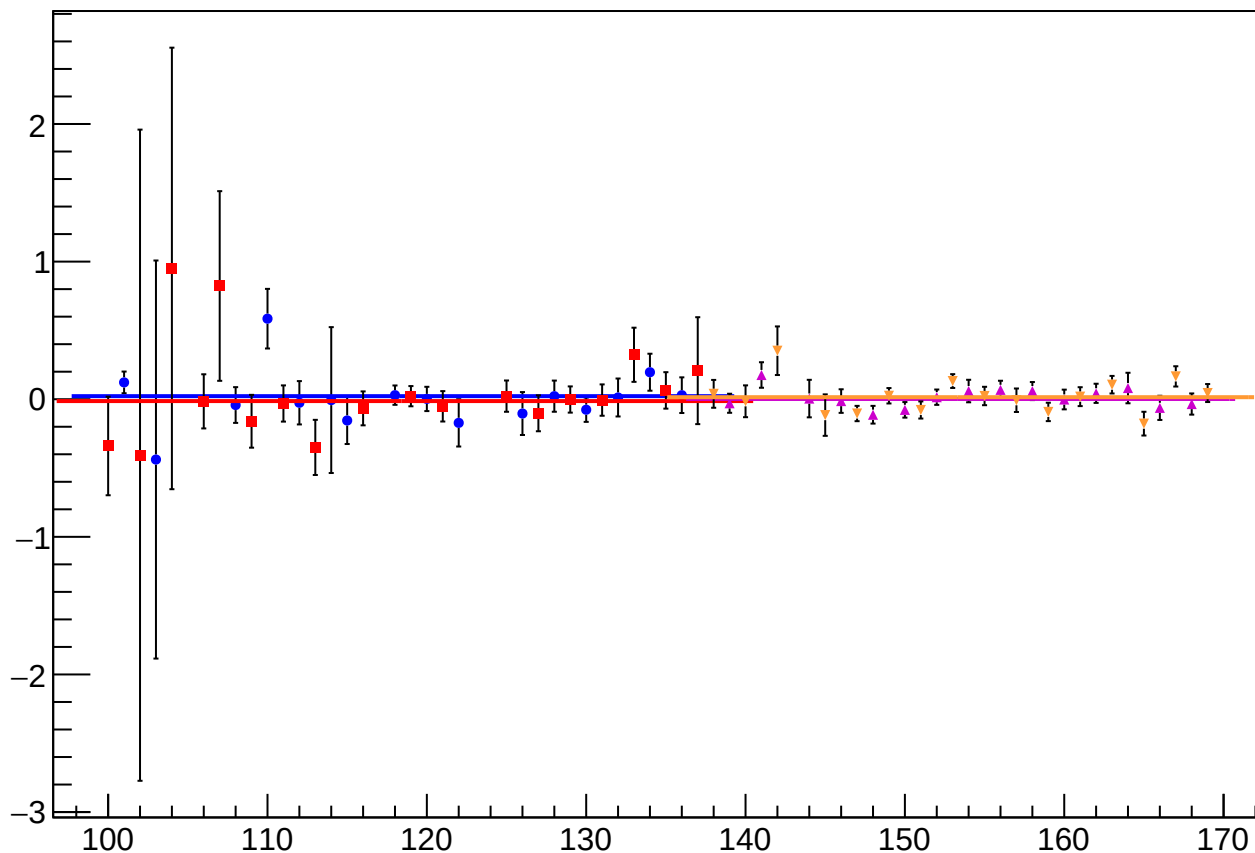
Right: 0.000+/-0.000 χ^2/NDF : 3942150.2/34

In: 0.000+/-0.000 χ^2/NDF : 3640434.3/30

Out: 0.000+/-0.000 χ^2/NDF : 3327097.6/35

All: 0.000+/-0.000 χ^2/NDF : 6978445.9/66

asym_atl1_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.030 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.015 ± 0.018 $\chi^2/\text{NDF}: 30.9/15$

Right Out: -0.013 ± 0.033 $\chi^2/\text{NDF}: 10.8/17$

Left In: 0.002 ± 0.019 $\chi^2/\text{NDF}: 12.8/14$

Left: 0.009 ± 0.013 $\chi^2/\text{NDF}: 44.0/30$

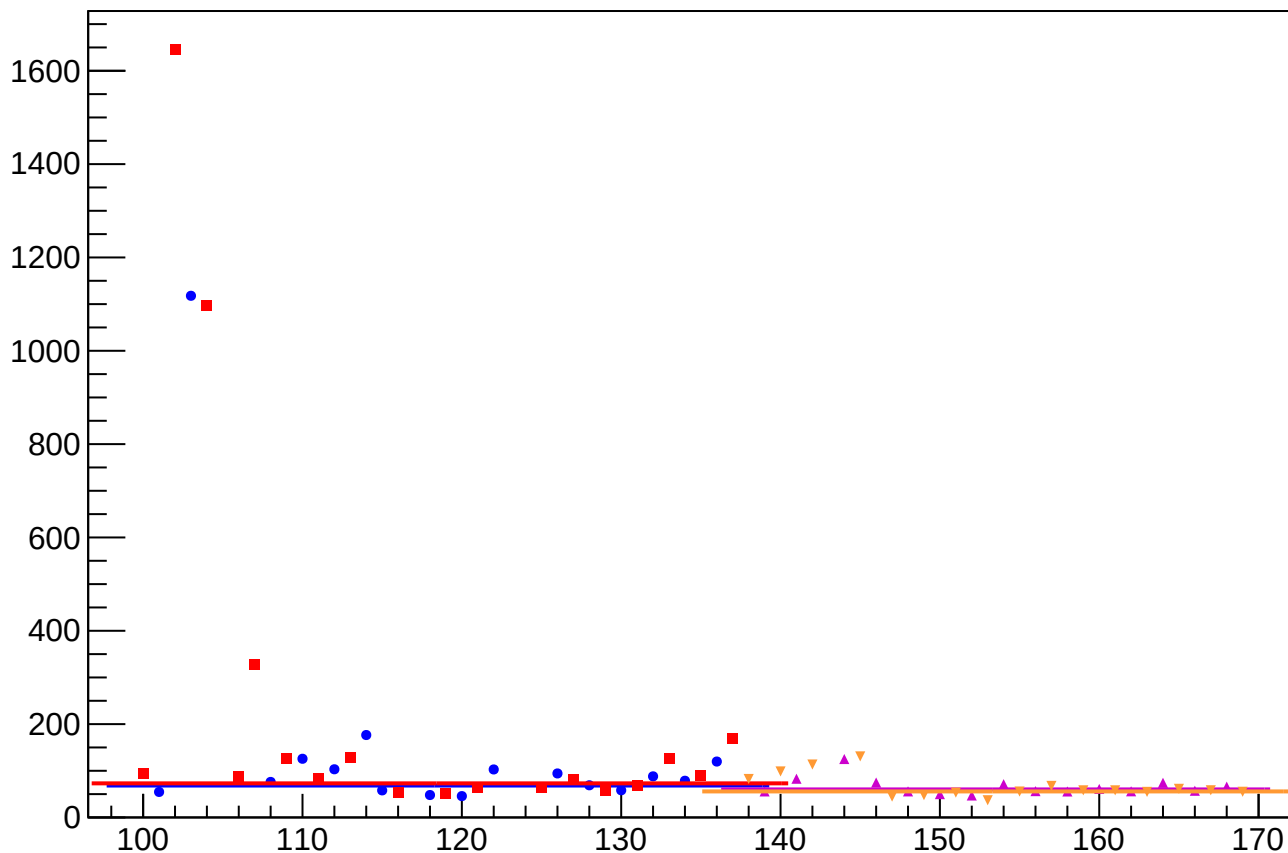
Right: 0.006 ± 0.022 $\chi^2/\text{NDF}: 26.3/33$

In: 0.008 ± 0.016 $\chi^2/\text{NDF}: 28.0/30$

Out: 0.009 ± 0.016 $\chi^2/\text{NDF}: 42.3/33$

All: 0.008 ± 0.011 $\chi^2/\text{NDF}: 70.2/64$

asym_atl1_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 68.429+/-0.021 χ^2/NDF : 2278083.9/15

Left Out: 55.786+/-0.013 χ^2/NDF : 1585080.2/15

Right Out: 73.072+/-0.024 χ^2/NDF : 2913147.6/17

Left In: 60.069+/-0.013 χ^2/NDF : 934381.2/14

Left: 57.797+/-0.009 χ^2/NDF : 2573591.9/30

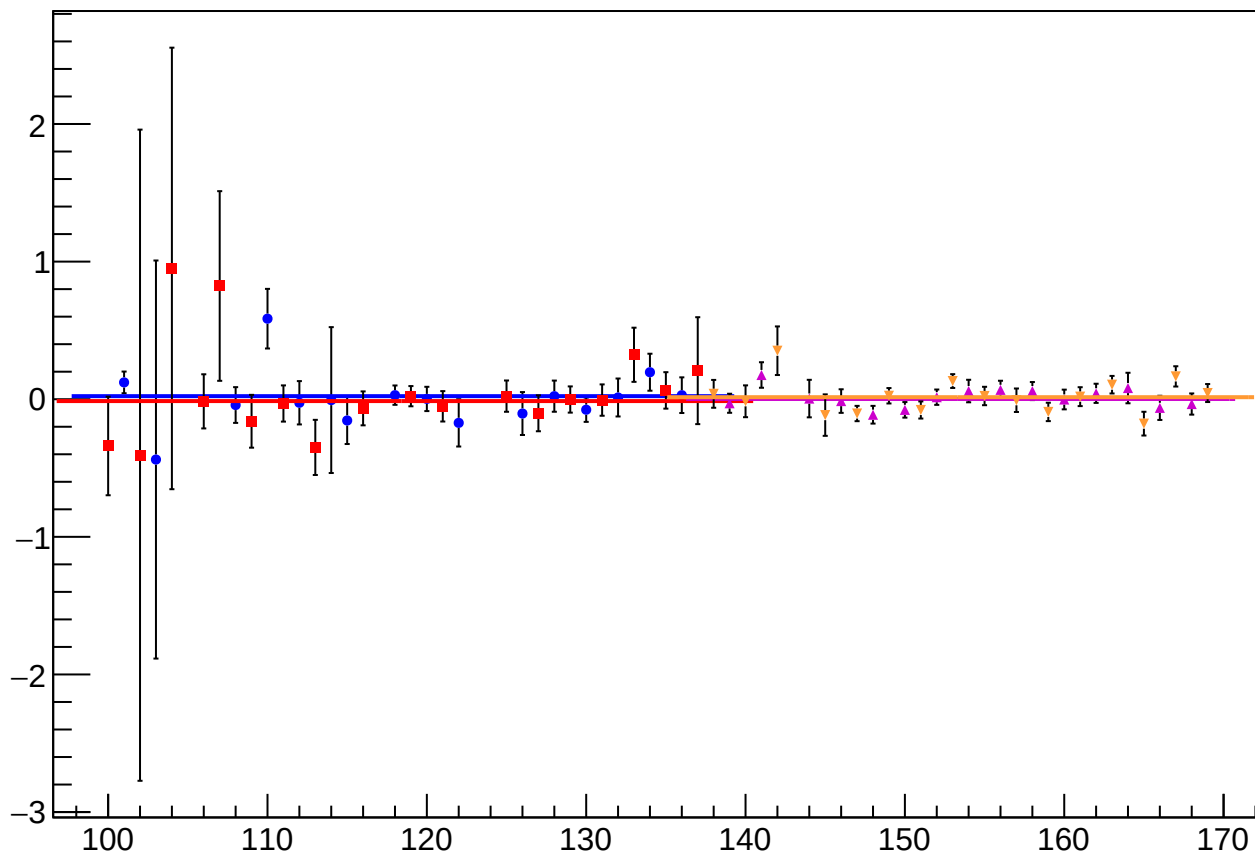
Right: 70.509+/-0.016 χ^2/NDF : 5212470.4/33

In: 62.438+/-0.011 χ^2/NDF : 3322683.9/30

Out: 59.609+/-0.011 χ^2/NDF : 4913533.8/33

All: 60.996+/-0.008 χ^2/NDF : 8267889.5/64

asym_atl1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.030 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.015 ± 0.018 $\chi^2/\text{NDF}: 30.9/15$

Right Out: -0.013 ± 0.033 $\chi^2/\text{NDF}: 10.8/17$

Left In: 0.002 ± 0.019 $\chi^2/\text{NDF}: 12.8/14$

Left: 0.009 ± 0.013 $\chi^2/\text{NDF}: 44.0/30$

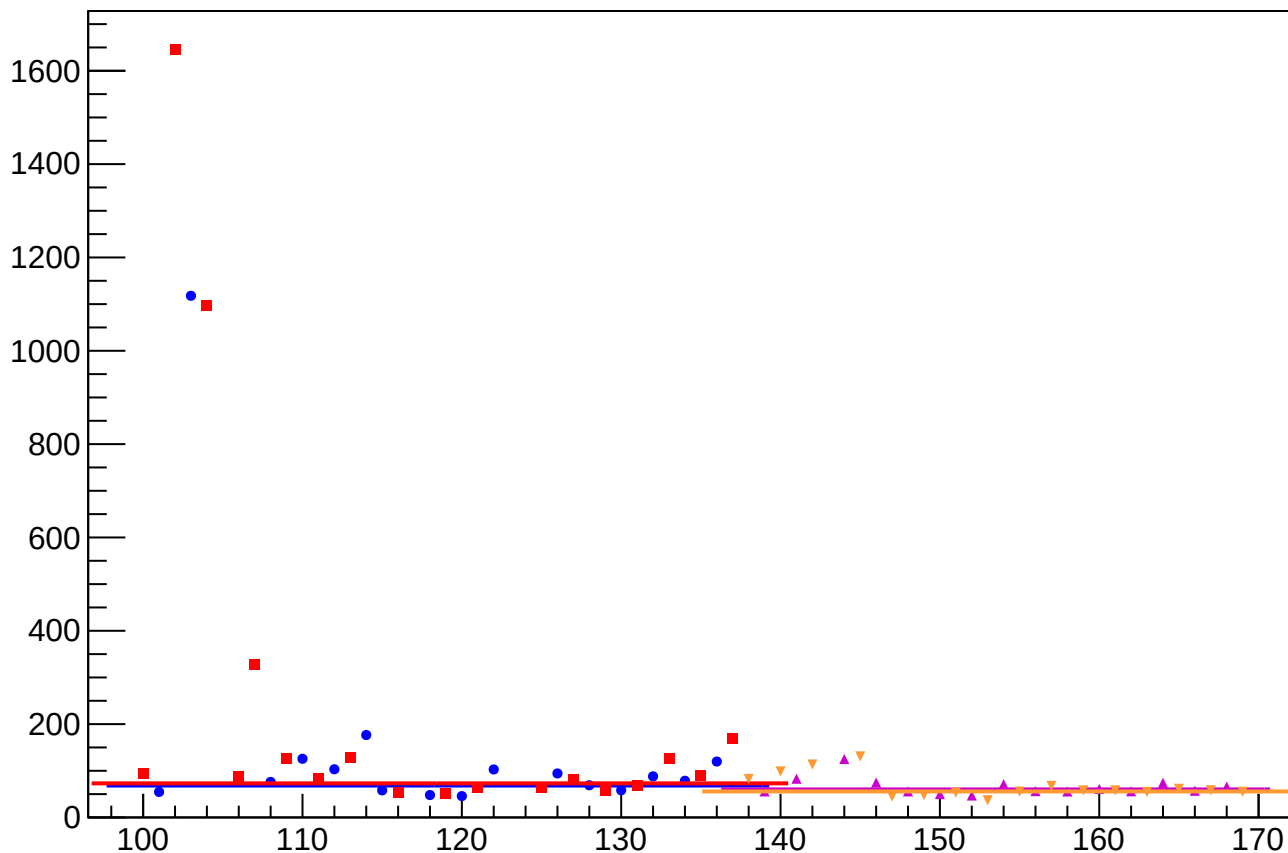
Right: 0.006 ± 0.022 $\chi^2/\text{NDF}: 26.3/33$

In: 0.008 ± 0.016 $\chi^2/\text{NDF}: 28.0/30$

Out: 0.009 ± 0.016 $\chi^2/\text{NDF}: 42.3/33$

All: 0.008 ± 0.011 $\chi^2/\text{NDF}: 70.2/64$

asym_atl1_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 68.429+/-0.021 χ^2/NDF : 2278083.9/15

Left Out: 55.786+/-0.013 χ^2/NDF : 1585080.2/15

Right Out: 73.072+/-0.024 χ^2/NDF : 2913147.6/17

Left In: 60.069+/-0.013 χ^2/NDF : 934381.2/14

Left: 57.797+/-0.009 χ^2/NDF : 2573591.9/30

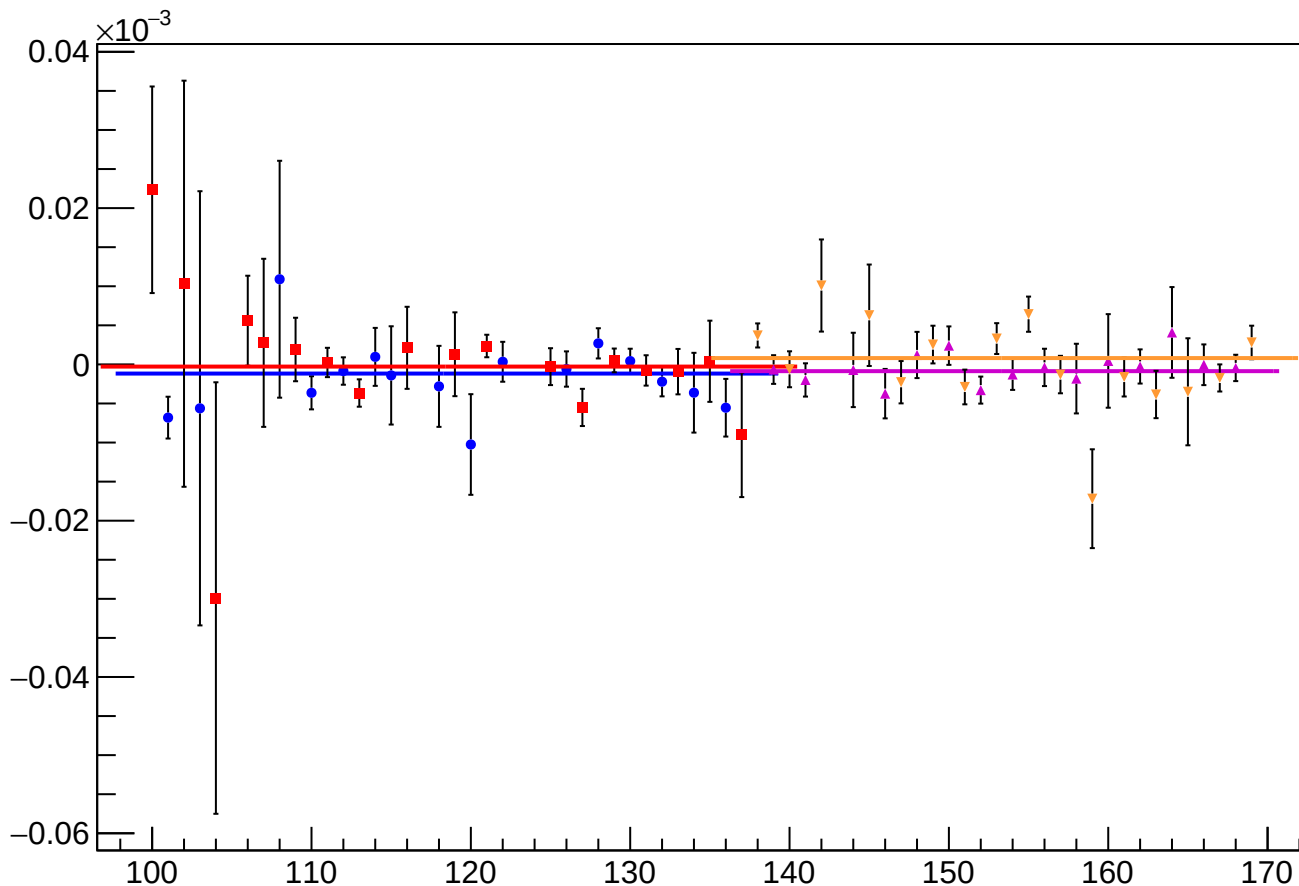
Right: 70.509+/-0.016 χ^2/NDF : 5212470.4/33

In: 62.438+/-0.011 χ^2/NDF : 3322683.9/30

Out: 59.609+/-0.011 χ^2/NDF : 4913533.8/33

All: 60.996+/-0.008 χ^2/NDF : 8267889.5/64

asym_atl1_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 16.3/15

Left Out: 0.000+/-0.000 χ^2 /NDF:35.1/15

Right Out: -0.000+/-0.000 χ^2 /NDF: 19.5/17

Left In: -0.000+/-0.000 χ^2 /NDF:6.5/14

Left: -0.000+/-0.000 χ^2 /NDF: 45.2/30

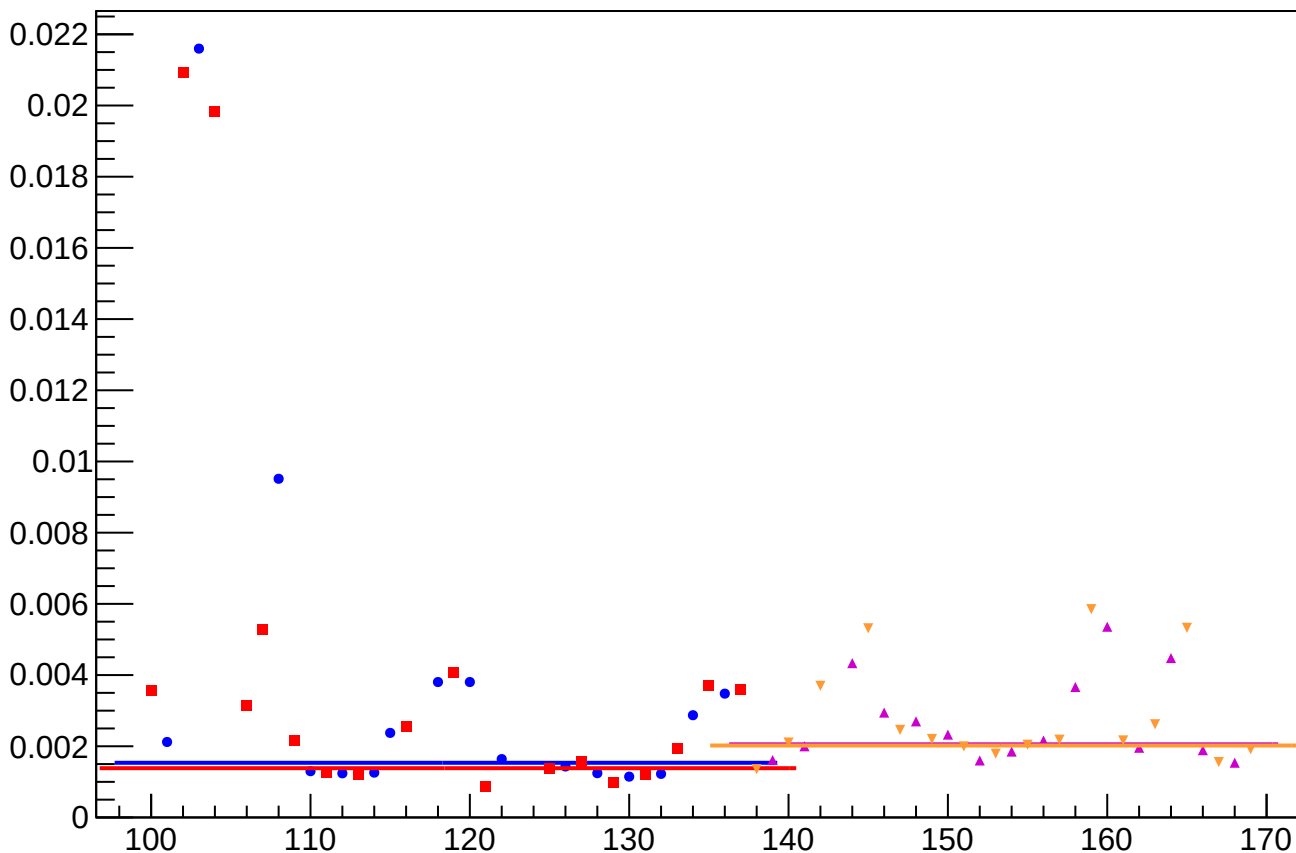
Right: -0.000+/-0.000 χ^2 /NDF: 36.8/33

In: -0.000+/-0.000 χ^2 /NDF:22.9/30

Out: 0.000+/-0.000 χ^2 /NDF:56.2/33

All: -0.000+/-0.000 χ^2 /NDF: 83.2/64

asym_atl1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3373907.9/15

Left Out: 0.002+/-0.000 χ^2/NDF :2584844.3/15

Right Out: 0.001+/-0.000 χ^2/NDF : 4269081.2/17

Left In: 0.002+/-0.000 χ^2/NDF :2435531.8/14

Left: 0.002+/-0.000 χ^2/NDF : 5023232.8/30

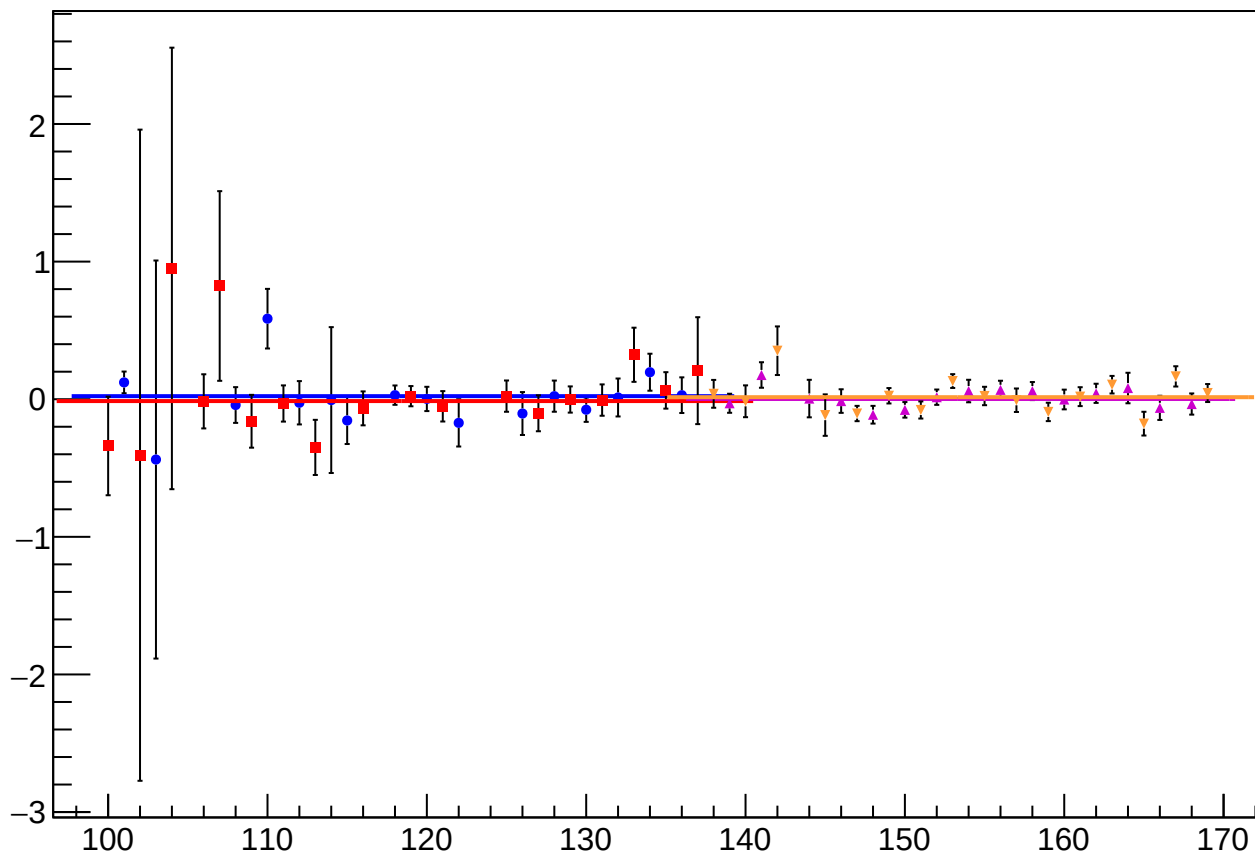
Right: 0.001+/-0.000 χ^2/NDF : 7697891.2/33

In: 0.002+/-0.000 χ^2/NDF :6451893.0/30

Out: 0.002+/-0.000 χ^2/NDF :7901551.2/33

All: 0.002+/-0.000 χ^2/NDF : 14399178.0/64

asym_atl1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.030 χ^2 /NDF: 14.8/15

Left Out: 0.015 $\pm$ 0.018 χ^2 /NDF:30.9/15

Right Out: -0.013 $\pm$ 0.033 χ^2 /NDF: 10.8/17

Left In: 0.002 $\pm$ 0.019 χ^2 /NDF:12.8/14

Left: 0.009 $\pm$ 0.013 χ^2 /NDF: 44.0/30

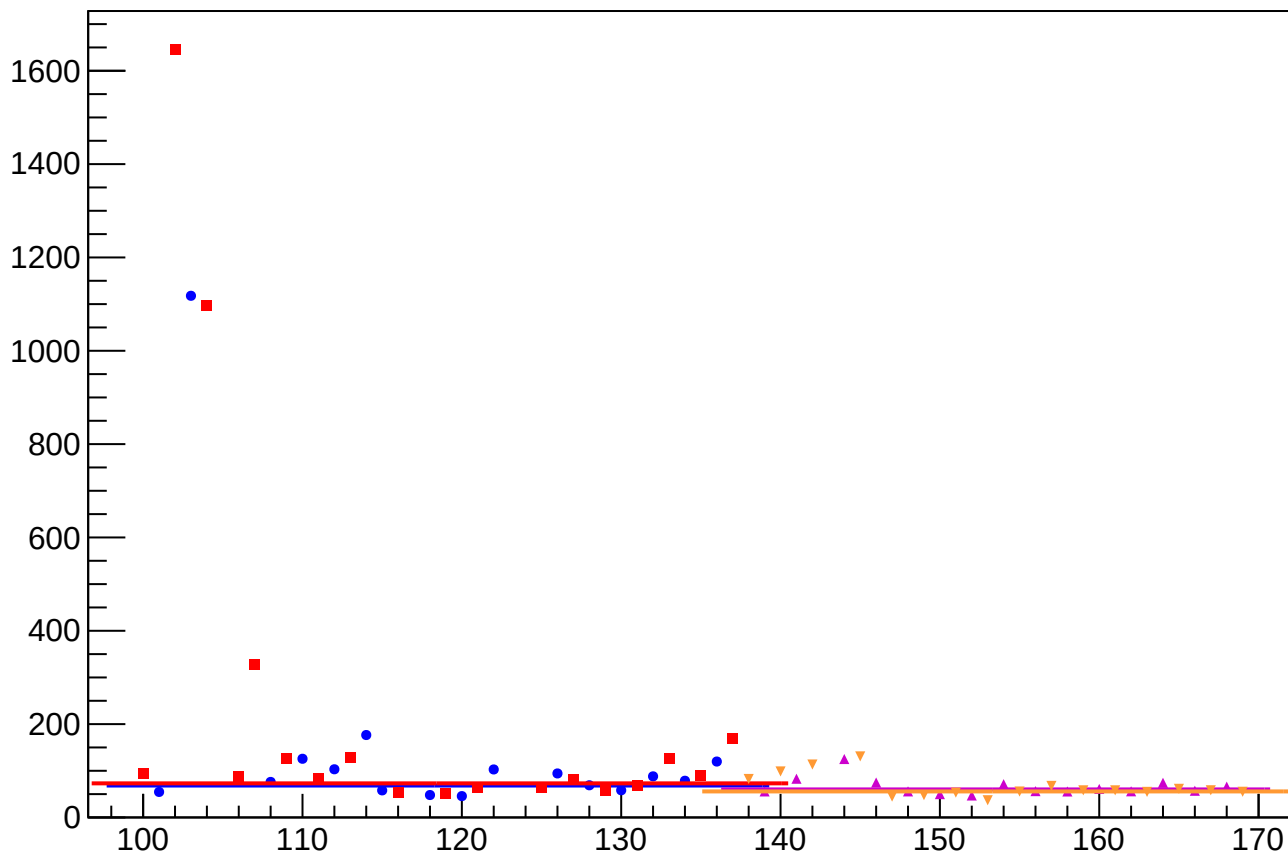
Right: 0.006 $\pm$ 0.022 χ^2 /NDF: 26.3/33

In: 0.008 $\pm$ 0.016 χ^2 /NDF:28.0/30

Out: 0.009 $\pm$ 0.016 χ^2 /NDF:42.3/33

All: 0.008 $\pm$ 0.011 χ^2 /NDF: 70.2/64

asym_atl1_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 68.428+/-0.021 χ^2/NDF : 2278168.9/15

Left Out: 55.786+/-0.013 χ^2/NDF : 1585154.6/15

Right Out: 73.072+/-0.024 χ^2/NDF : 2913161.9/17

Left In: 60.069+/-0.013 χ^2/NDF : 934355.3/14

Left: 57.797+/-0.009 χ^2/NDF : 2573647.9/30

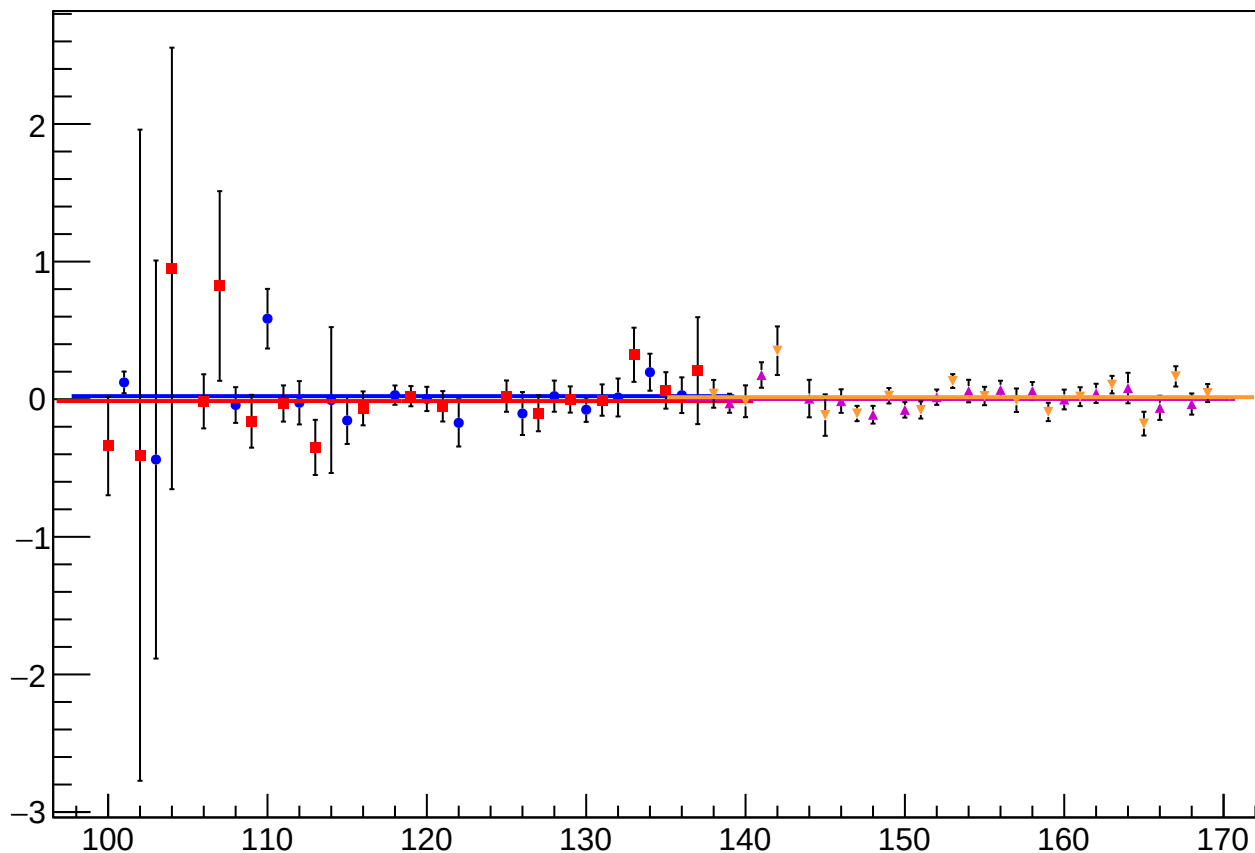
Right: 70.508+/-0.016 χ^2/NDF : 5212574.0/33

In: 62.438+/-0.011 χ^2/NDF : 3322712.7/30

Out: 59.608+/-0.011 χ^2/NDF : 4913603.6/33

All: 60.996+/-0.008 χ^2/NDF : 8267989.8/64

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.030 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.015 ± 0.018 $\chi^2/\text{NDF}: 30.9/15$

Right Out: -0.013 ± 0.033 $\chi^2/\text{NDF}: 10.8/17$

Left In: 0.002 ± 0.019 $\chi^2/\text{NDF}: 12.8/14$

Left: 0.009 ± 0.013 $\chi^2/\text{NDF}: 44.0/30$

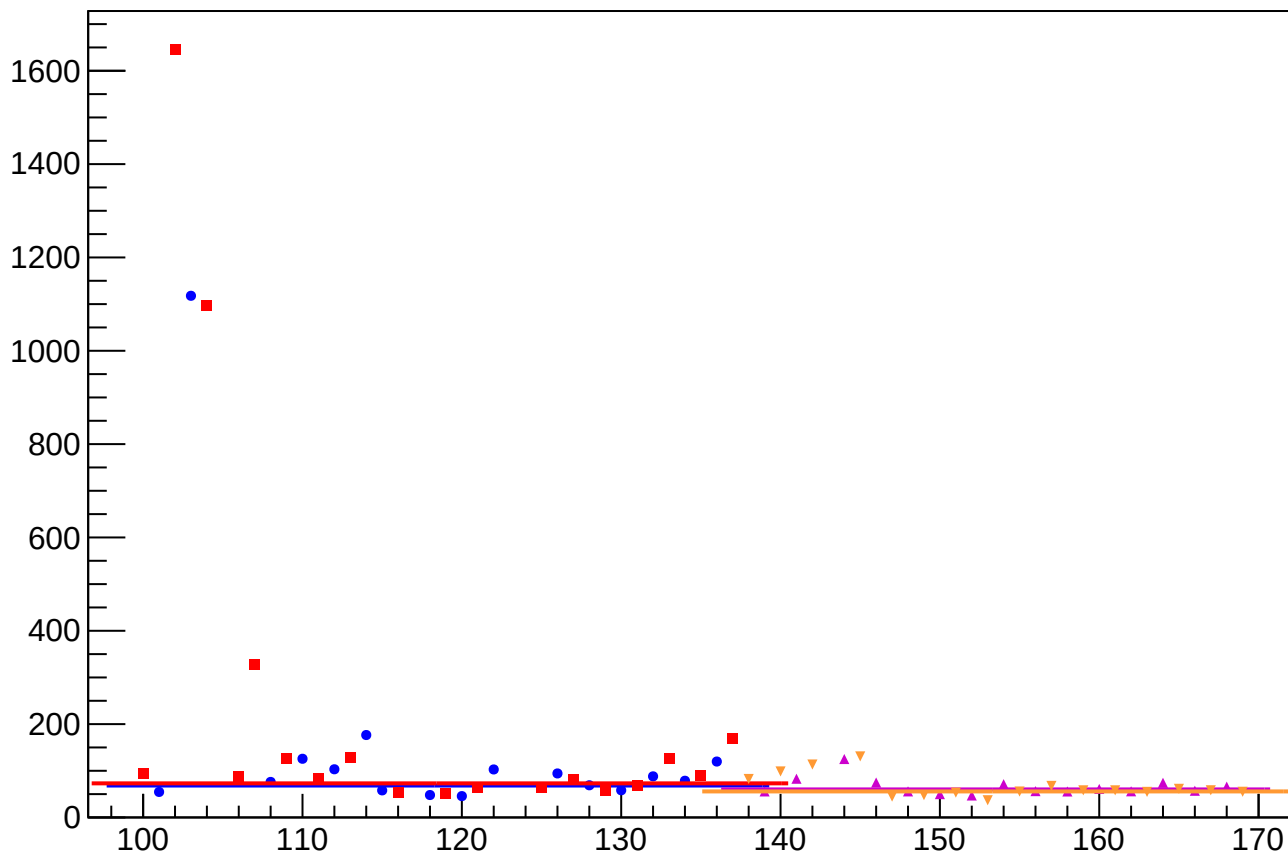
Right: 0.006 ± 0.022 $\chi^2/\text{NDF}: 26.3/33$

In: 0.008 ± 0.016 $\chi^2/\text{NDF}: 28.0/30$

Out: 0.009 ± 0.016 $\chi^2/\text{NDF}: 42.3/33$

All: 0.008 ± 0.011 $\chi^2/\text{NDF}: 70.2/64$

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 68.428+/-0.021 χ^2/NDF : 2278168.9/15

Left Out: 55.786+/-0.013 χ^2/NDF : 1585154.6/15

Right Out: 73.072+/-0.024 χ^2/NDF : 2913161.9/17

Left In: 60.069+/-0.013 χ^2/NDF : 934355.3/14

Left: 57.797+/-0.009 χ^2/NDF : 2573647.9/30

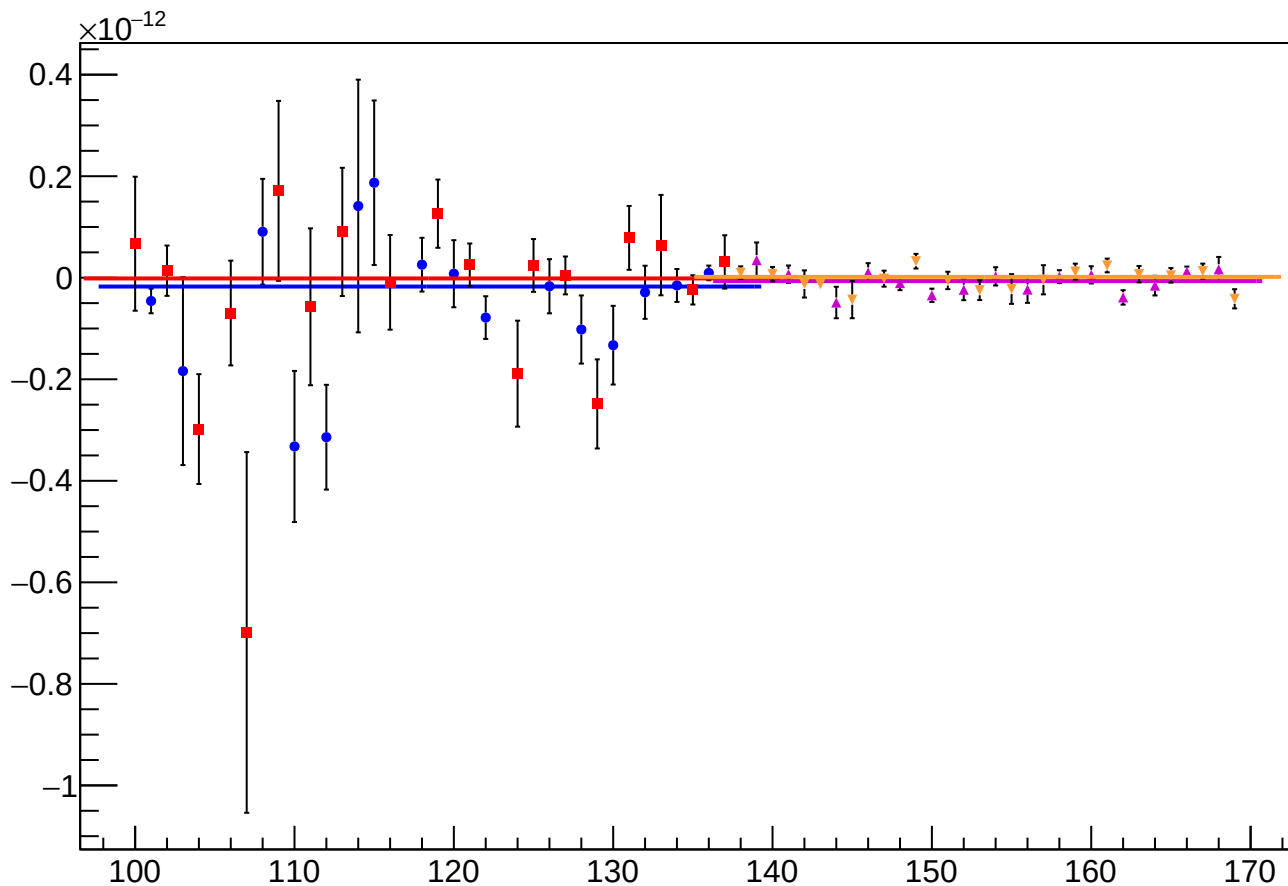
Right: 70.508+/-0.016 χ^2/NDF : 5212574.0/33

In: 62.438+/-0.011 χ^2/NDF : 3322712.7/30

Out: 59.608+/-0.011 χ^2/NDF : 4913603.6/33

All: 60.996+/-0.008 χ^2/NDF : 8267989.8/64

asym_atl1_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 28.3/15

Left Out: 0.000+/-0.000 χ^2 /NDF:21.1/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 32.3/18

Left In: -0.000+/-0.000 χ^2 /NDF:21.3/14

Left: -0.000+/-0.000 χ^2 /NDF: 44.5/31

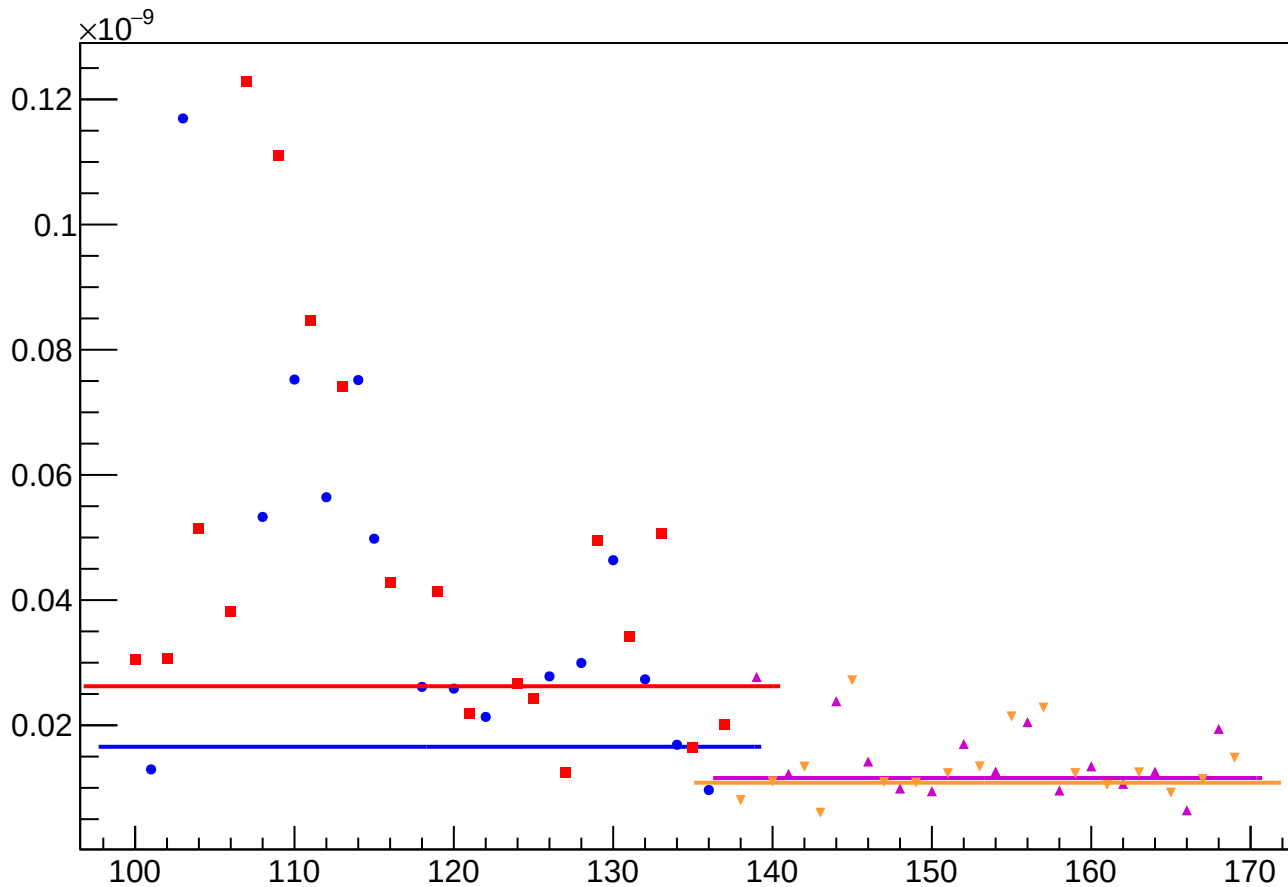
Right: -0.000+/-0.000 χ^2 /NDF: 61.4/34

In: -0.000+/-0.000 χ^2 /NDF:50.5/30

Out: 0.000+/-0.000 χ^2 /NDF:53.5/35

All: -0.000+/-0.000 χ^2 /NDF: 107.2/66

asym_atl1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2823424.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :1865916.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2346394.7/18

Left In: 0.000+/-0.000 χ^2/NDF :2054344.6/14

Left: 0.000+/-0.000 χ^2/NDF : 3954343.8/31

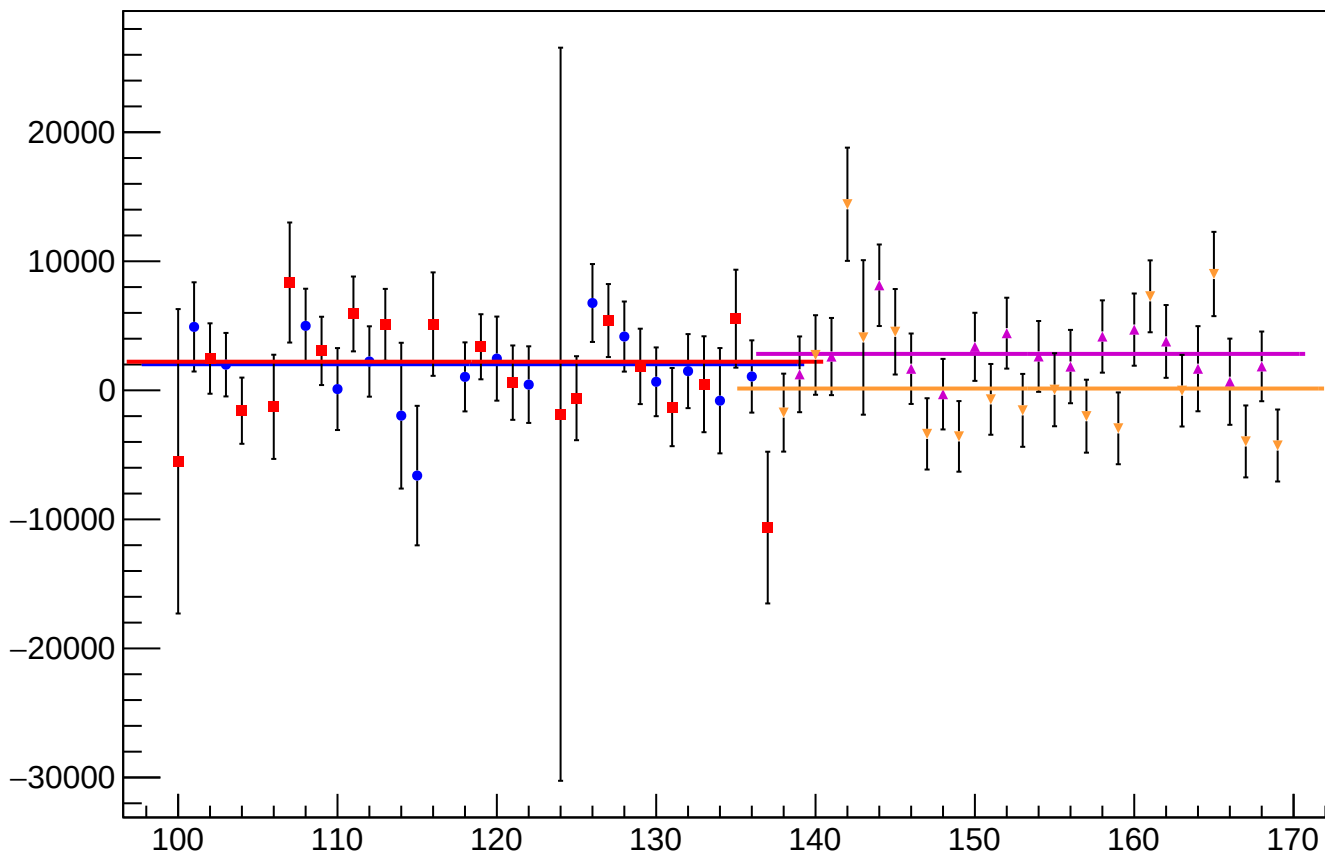
Right: 0.000+/-0.000 χ^2/NDF : 5786992.3/34

In: 0.000+/-0.000 χ^2/NDF :5299723.5/30

Out: 0.000+/-0.000 χ^2/NDF :6390592.6/35

All: 0.000+/-0.000 χ^2/NDF : 11705992.2/66

reg_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2022.690+/-764.357 χ^2/NDF : 9.6/15

Left Out: 139.194+/-725.958 χ^2/NDF : 38.2/16

Right Out: 2217.261+/-756.139 χ^2/NDF : 18.1/18

Left In: 2822.995+/-739.510 χ^2/NDF : 6.6/14

Left: 1456.278+/-518.055 χ^2/NDF : 51.5/31

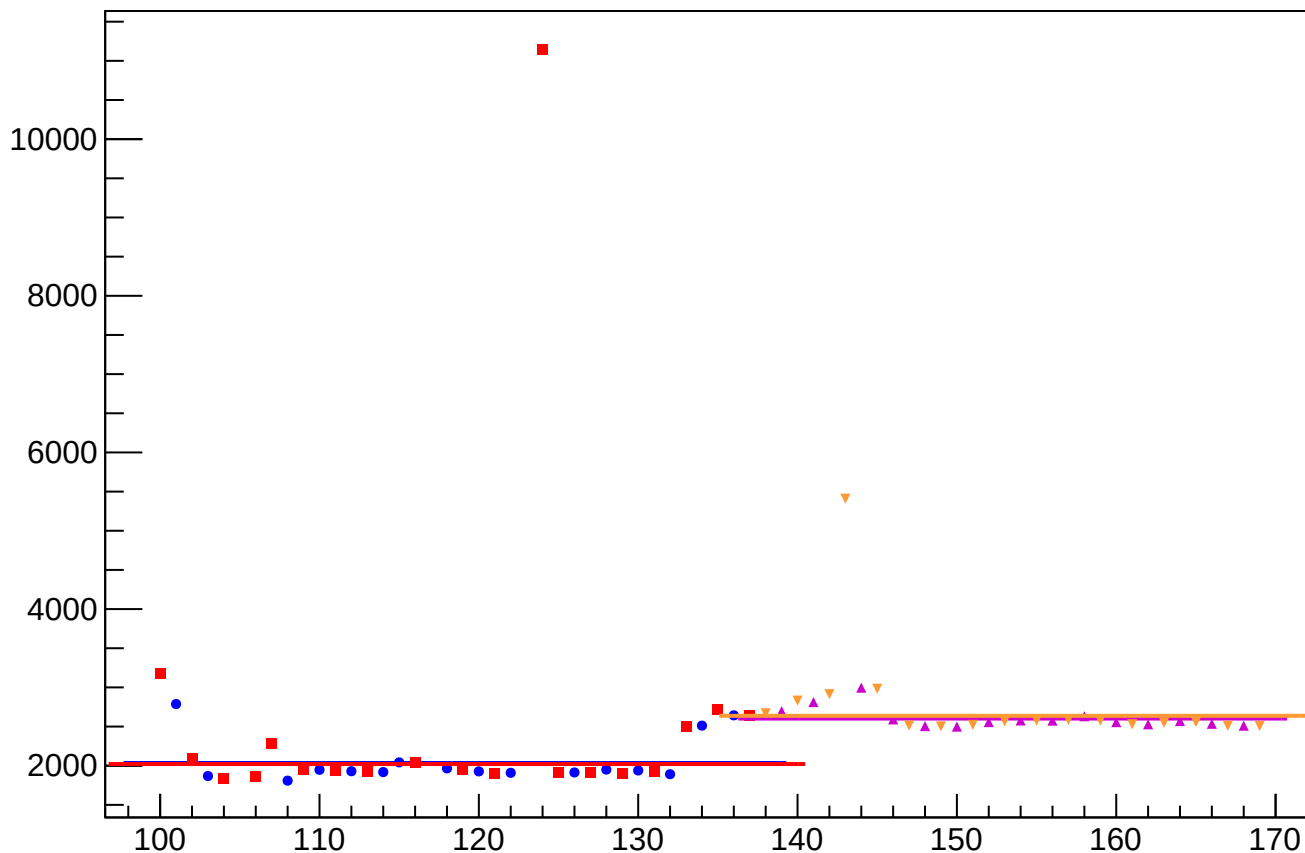
Right: 2121.027+/-537.553 χ^2/NDF : 27.8/34

In: 2436.061+/-531.480 χ^2/NDF : 16.8/30

Out: 1135.928+/-523.675 χ^2/NDF : 60.3/35

All: 1776.378+/-373.023 χ^2/NDF : 80.1/66

reg_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2034.159+/-0.540 χ^2/NDF : 262960.7/15

Left Out: 2637.146+/-0.513 χ^2/NDF : 497755.5/16

Right Out: 2021.545+/-0.535 χ^2/NDF : 390321.3/18

Left In: 2602.180+/-0.523 χ^2/NDF : 54990.0/14

Left: 2619.986+/-0.366 χ^2/NDF : 555022.5/31

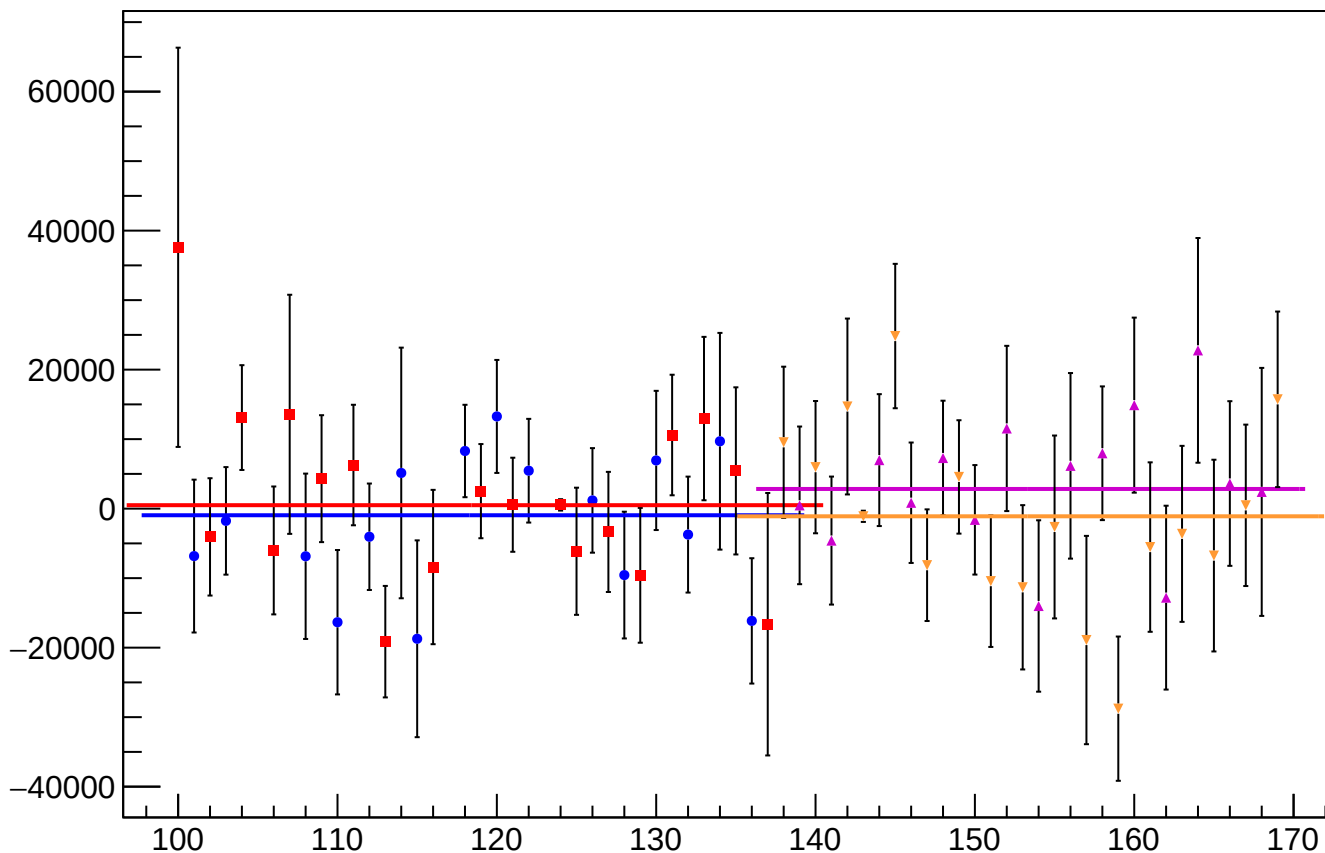
Right: 2027.784+/-0.380 χ^2/NDF : 653557.3/34

In: 2327.552+/-0.376 χ^2/NDF : 888445.5/30

Out: 2341.876+/-0.370 χ^2/NDF : 1577880.1/35

All: 2334.820+/-0.264 χ^2/NDF : 2467062.7/66

asym_atl2_reg_correction_mean vs Slug, Sign Corrected



Right In: -950.519 $\pm$ 2278.532 χ^2/NDF : 15.3/15

Left Out: -1101.493 $\pm$ 773.776 χ^2/NDF : 22.9/16

Right Out: 497.346 $\pm$ 768.286 χ^2/NDF : 18.5/18

Left In: 2831.703 $\pm$ 2762.727 χ^2/NDF : 8.1/14

Left: -815.403 $\pm$ 745.103 χ^2/NDF : 33.0/31

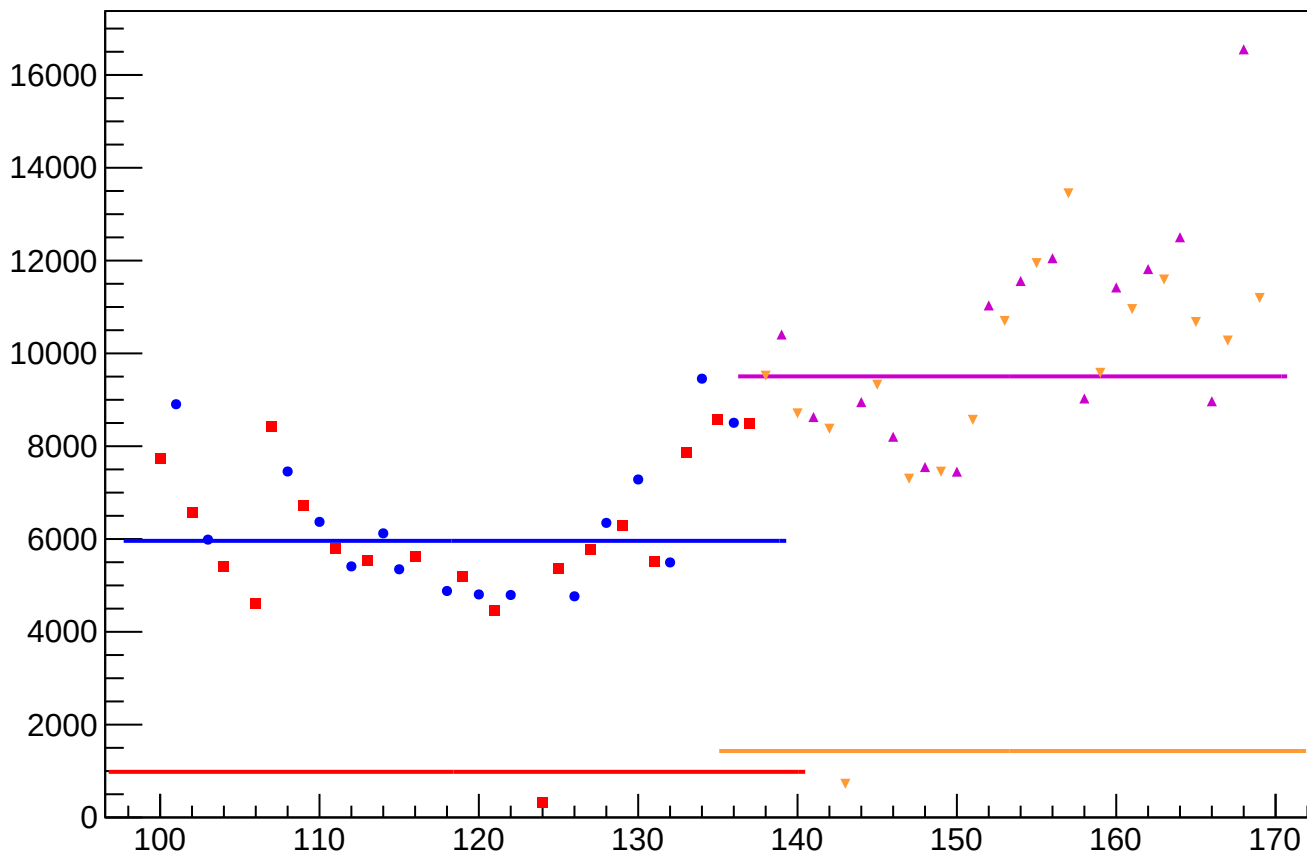
Right: 349.538 $\pm$ 728.015 χ^2/NDF : 34.2/34

In: 580.643 $\pm$ 1757.823 χ^2/NDF : 24.6/30

Out: -296.383 $\pm$ 545.191 χ^2/NDF : 43.5/35

All: -219.421 $\pm$ 520.721 χ^2/NDF : 68.4/66

asym_atl2_reg_correction_rms vs Slug, Sign Corrected



Right In: 5960.802+/-1.611 χ^2/NDF : 689267.6/15

Left Out: 1432.000+/-0.547 χ^2/NDF : 19644774.5/16

Right Out: 983.316+/-0.543 χ^2/NDF : 11416689.8/18

Left In: 9504.771+/-1.954 χ^2/NDF : 989642.5/14

Left: 2019.191+/-0.527 χ^2/NDF : 36468830.7/31

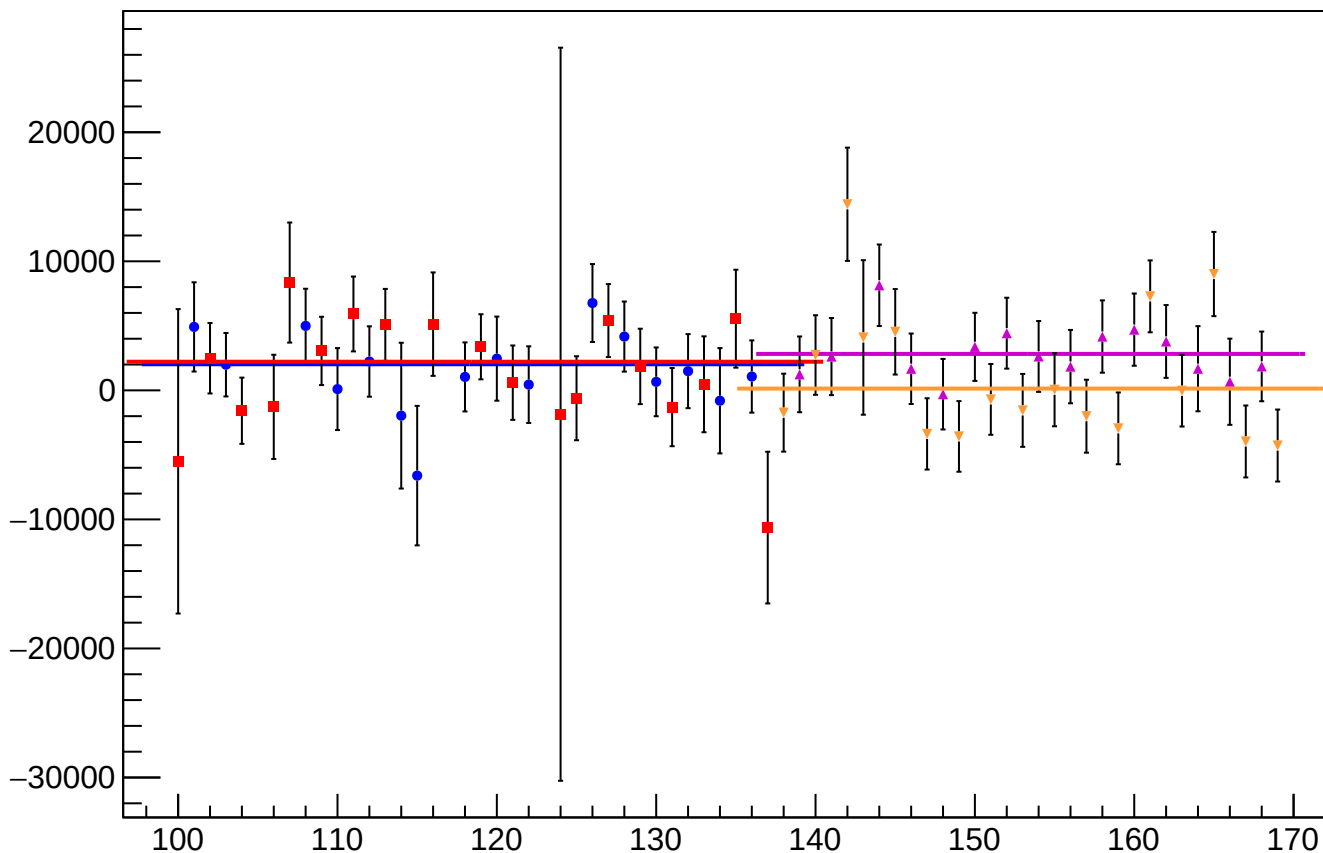
Right: 1491.453+/-0.515 χ^2/NDF : 20675824.3/34

In: 7395.512+/-1.243 χ^2/NDF : 3637636.5/30

Out: 1206.061+/-0.386 χ^2/NDF : 31400099.5/35

All: 1749.201+/-0.368 χ^2/NDF : 57657946.3/66

cor_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2022.816 $\pm$ 764.357 χ^2 /NDF: 9.6/15

Left Out: 139.215 $\pm$ 725.958 χ^2 /NDF:38.2/16

Right Out: 2219.099 $\pm$ 756.147 χ^2 /NDF: 18.1/18

Left In: 2823.113 $\pm$ 739.510 χ^2 /NDF:6.6/14

Left: 1456.347 $\pm$ 518.055 χ^2 /NDF: 51.5/31

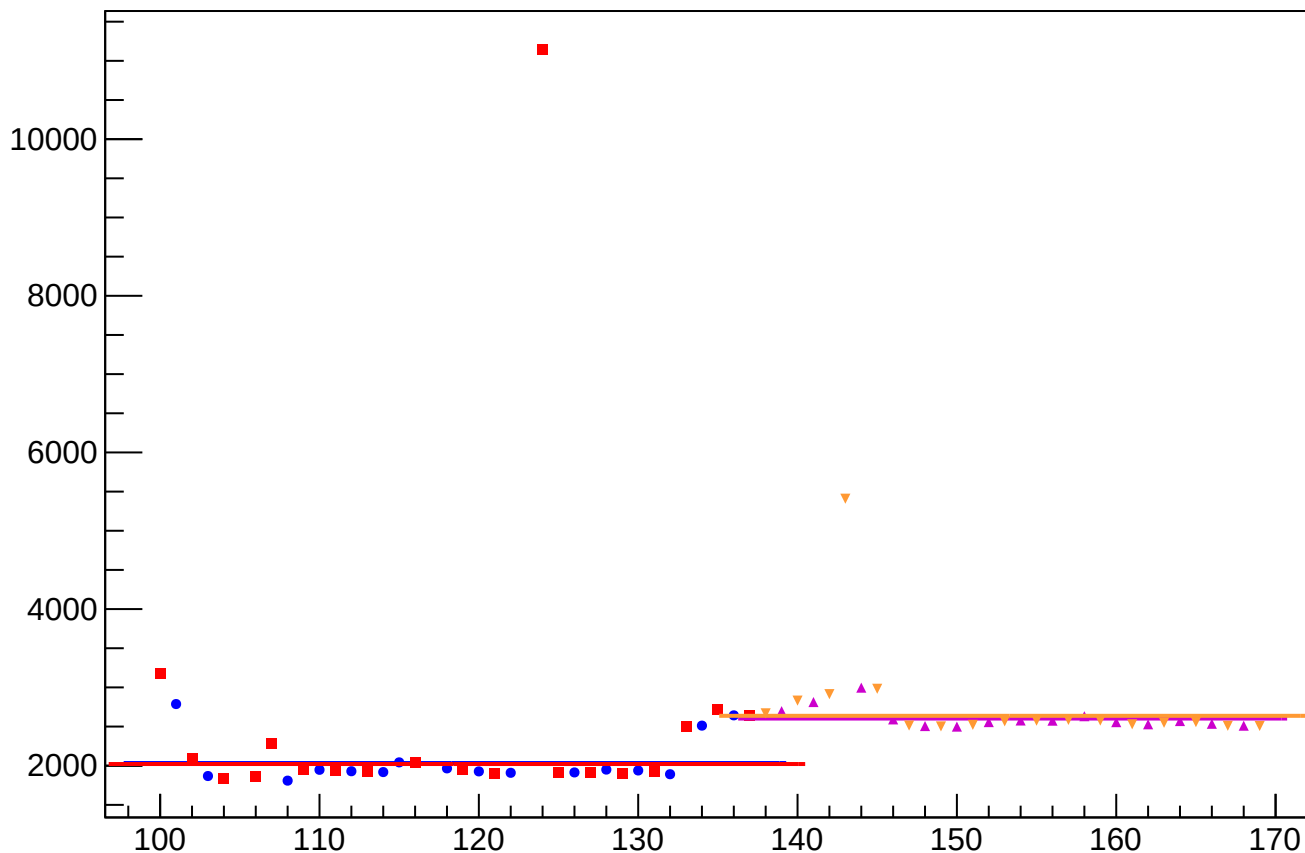
Right: 2122.018 $\pm$ 537.556 χ^2 /NDF: 27.8/34

In: 2436.183 $\pm$ 531.480 χ^2 /NDF:16.8/30

Out: 1136.810 $\pm$ 523.677 χ^2 /NDF:60.3/35

All: 1776.889 $\pm$ 373.024 χ^2 /NDF: 80.1/66

cor_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2034.159+/-0.540 χ^2/NDF : 262960.5/15

Left Out: 2637.146+/-0.513 χ^2/NDF : 497755.5/16

Right Out: 2021.566+/-0.535 χ^2/NDF : 390333.0/18

Left In: 2602.180+/-0.523 χ^2/NDF : 54990.0/14

Left: 2619.986+/-0.366 χ^2/NDF : 555022.5/31

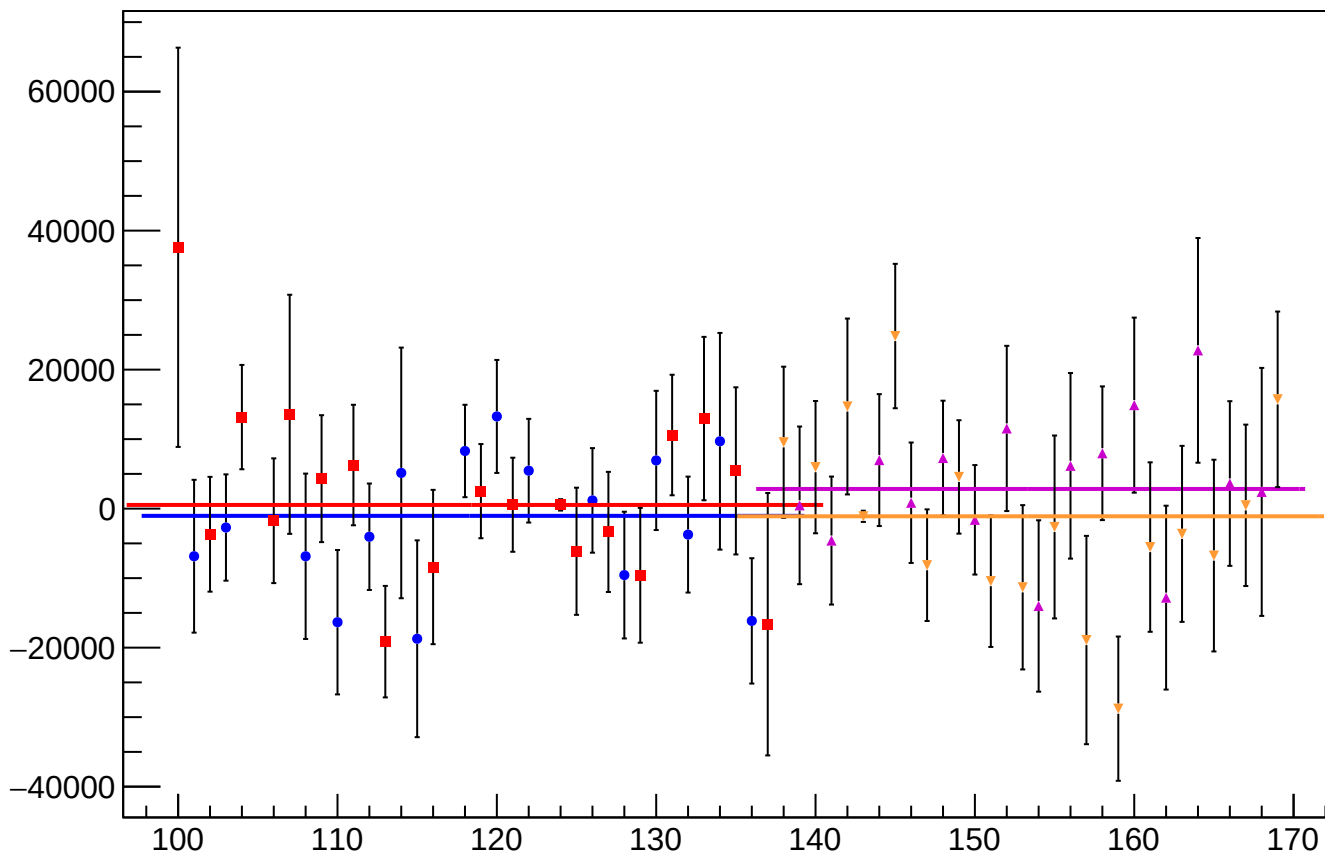
Right: 2027.795+/-0.380 χ^2/NDF : 653567.8/34

In: 2327.552+/-0.376 χ^2/NDF : 888445.7/30

Out: 2341.889+/-0.370 χ^2/NDF : 1577836.4/35

All: 2334.827+/-0.264 χ^2/NDF : 2467020.6/66

asym_atl2_cor_correction_mean vs Slug, Sign Corrected



Right In: -1037.942 $\pm$ 2276.180 χ^2/NDF : 15.4/15

Left Out: -1101.258 $\pm$ 773.707 χ^2/NDF :22.9/16

Right Out: 530.662 $\pm$ 767.947 χ^2/NDF : 18.0/18

Left In: 2831.857 $\pm$ 2762.725 χ^2/NDF :8.1/14

Left: -815.221 $\pm$ 745.042 χ^2/NDF : 33.0/31

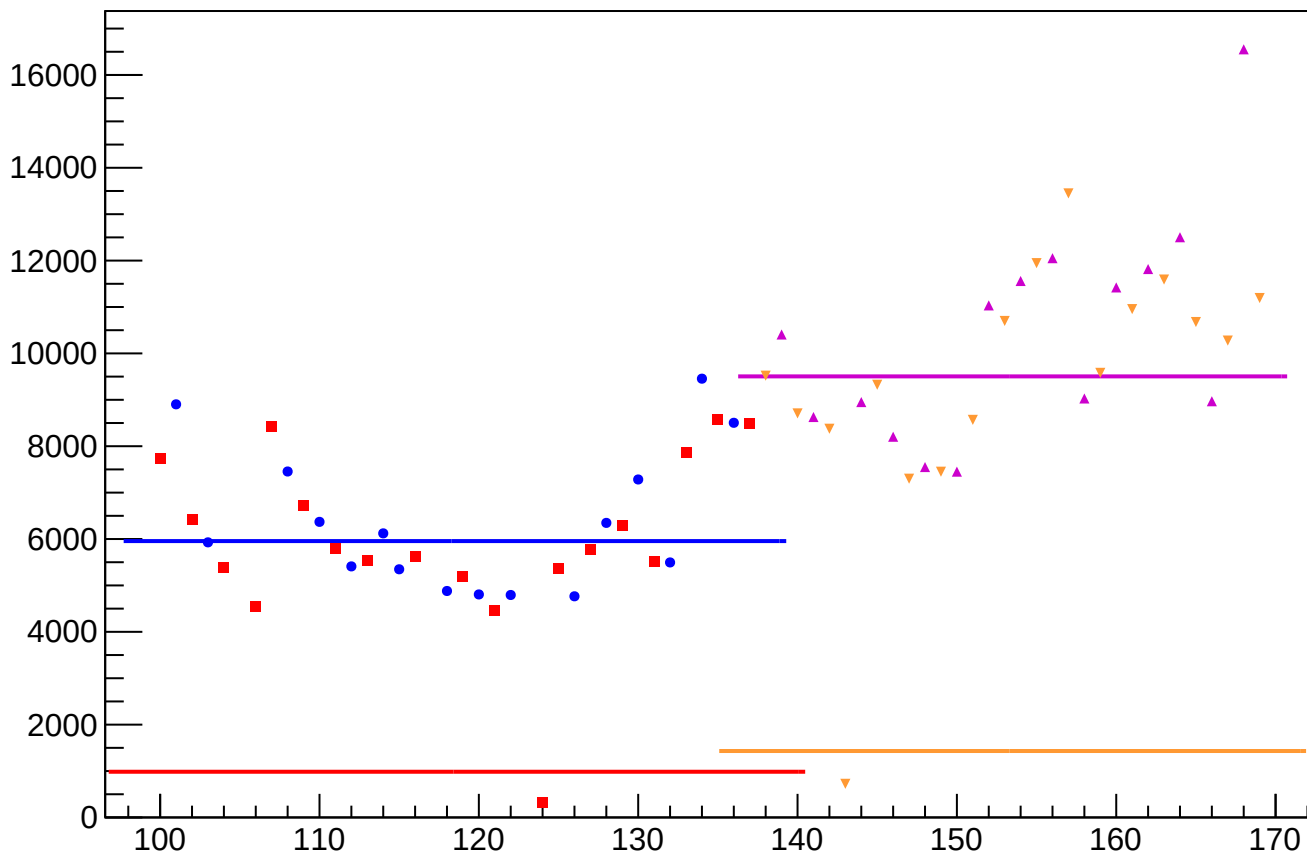
Right: 370.358 $\pm$ 727.649 χ^2/NDF : 33.8/34

In: 526.751 $\pm$ 1756.742 χ^2/NDF :24.7/30

Out: -279.202 $\pm$ 545.045 χ^2/NDF :43.2/35

All: -208.432 $\pm$ 520.566 χ^2/NDF : 68.1/66

asym_atl2_cor_correction_rms vs Slug, Sign Corrected



Right In: 5955.638+/-1.610

χ^2/NDF : 689141.5/15

Left: 2018.919+/-0.527

χ^2/NDF : 36470367.3/31

Left Out: 1431.811+/-0.547

χ^2/NDF : 19645368.4/16

Right: 1493.016+/-0.515

χ^2/NDF : 20664769.2/34

Right Out: 985.045+/-0.543

χ^2/NDF : 11412843.1/18

In: 7390.671+/-1.242

χ^2/NDF : 3644862.6/30

Out: 1206.759+/-0.385

χ^2/NDF : 31394136.3/35

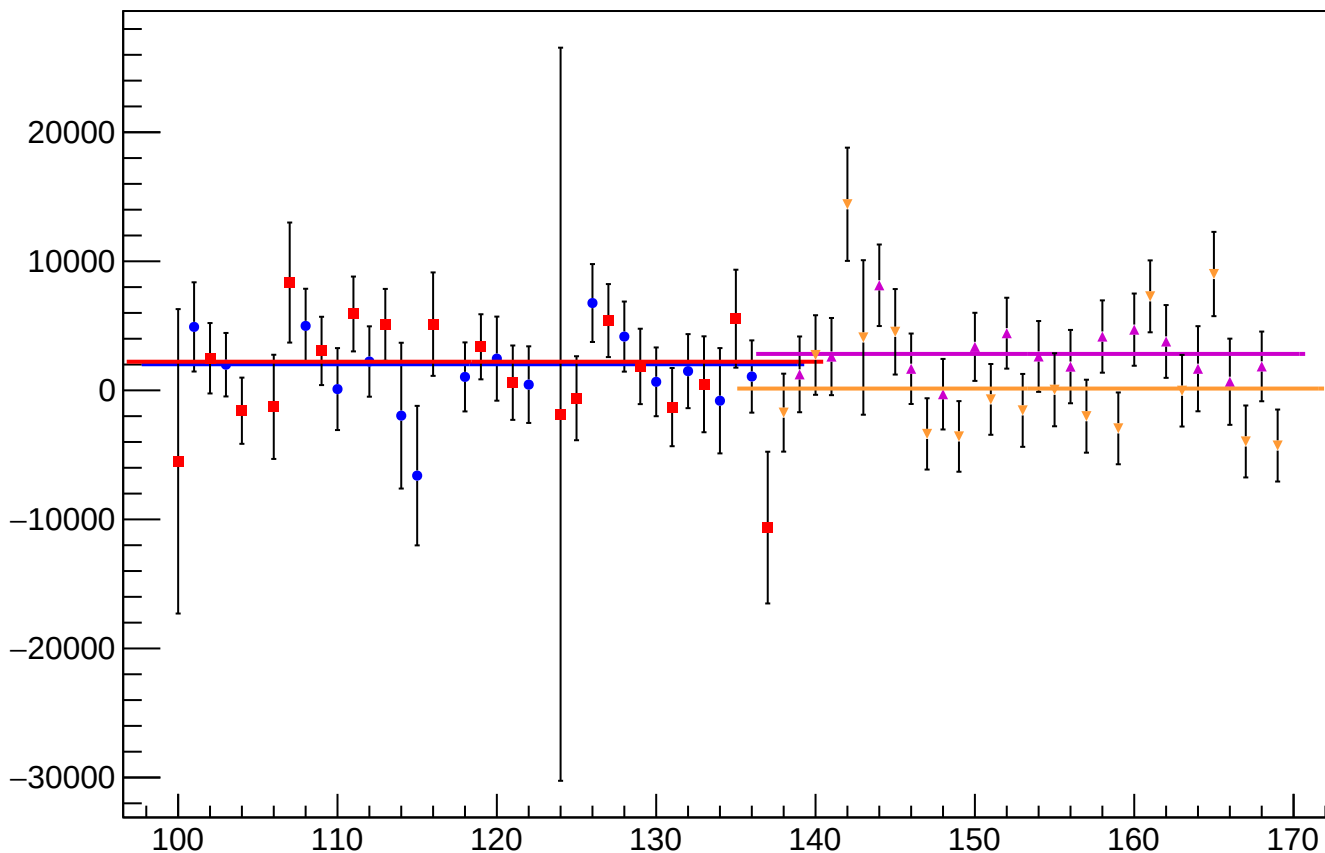
Left In: 9504.761+/-1.954

χ^2/NDF : 989649.5/14

All: 1749.758+/-0.368

χ^2/NDF : 57645157.5/6

eigen_cor_asym_atl2_mean vs Slug, Sign Corrected



Right In: 2022.816 $\pm$ 764.357 χ^2 /NDF: 9.6/15

Left Out: 139.215 $\pm$ 725.958 χ^2 /NDF:38.2/16

Right Out: 2219.099 $\pm$ 756.147 χ^2 /NDF: 18.1/18

Left In: 2823.113 $\pm$ 739.510 χ^2 /NDF:6.6/14

Left: 1456.347 $\pm$ 518.055 χ^2 /NDF: 51.5/31

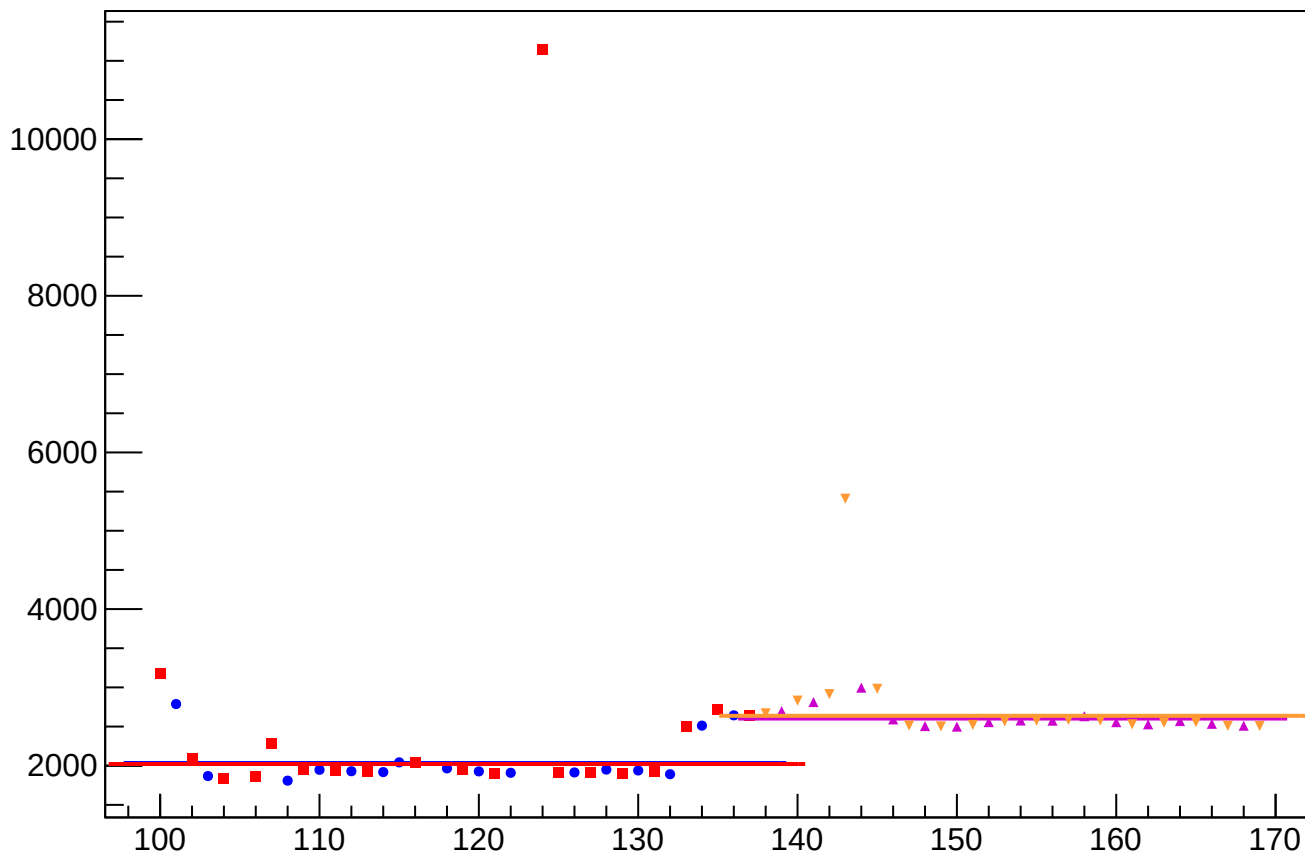
Right: 2122.018 $\pm$ 537.556 χ^2 /NDF: 27.8/34

In: 2436.183 $\pm$ 531.480 χ^2 /NDF:16.8/30

Out: 1136.810 $\pm$ 523.677 χ^2 /NDF:60.3/35

All: 1776.889 $\pm$ 373.024 χ^2 /NDF: 80.1/66

eigen_cor_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2034.159+/-0.540 χ^2/NDF : 262960.5/15

Left Out: 2637.146+/-0.513 χ^2/NDF : 497755.5/16

Right Out: 2021.566+/-0.535 χ^2/NDF : 390333.0/18

Left In: 2602.180+/-0.523 χ^2/NDF : 54990.0/14

Left: 2619.986+/-0.366 χ^2/NDF : 555022.5/31

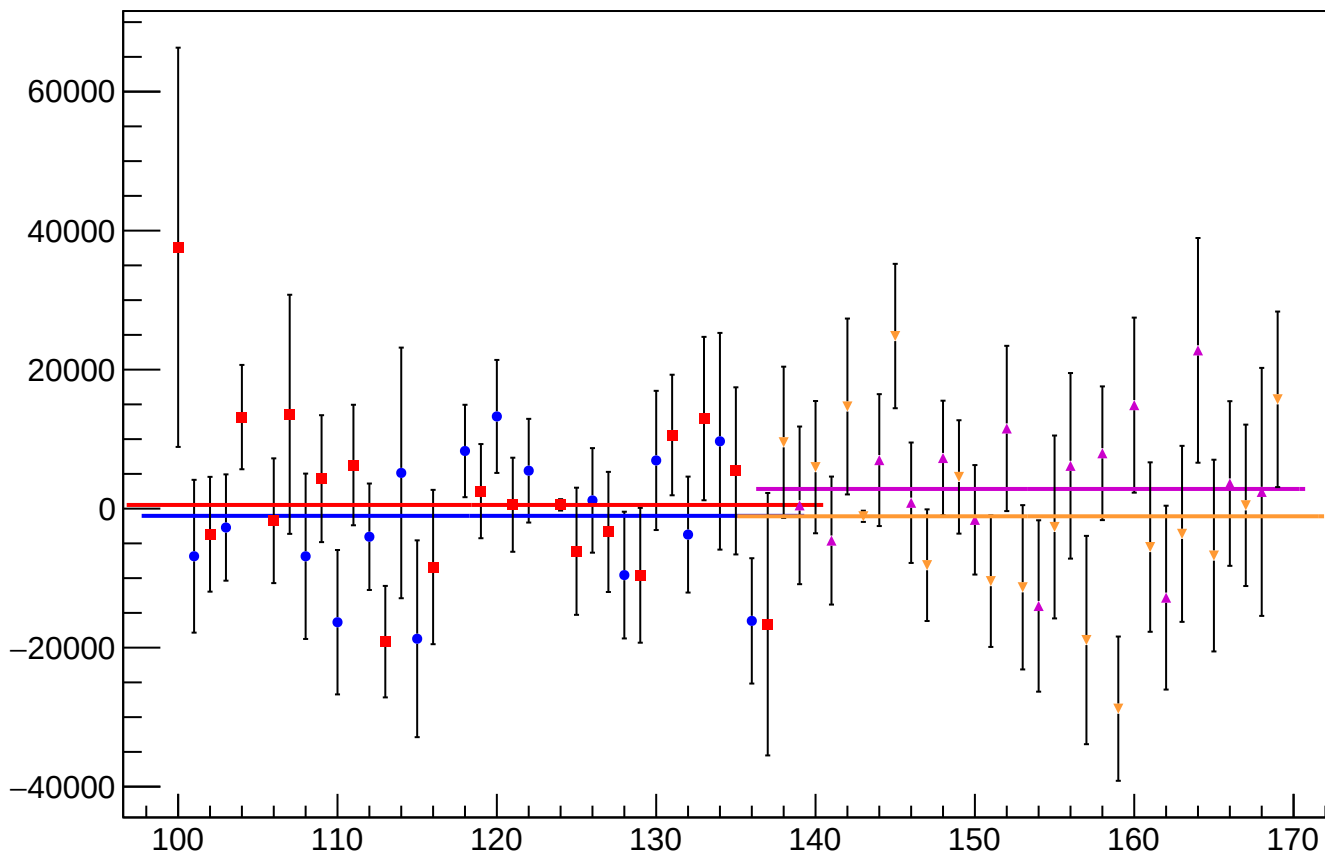
Right: 2027.795+/-0.380 χ^2/NDF : 653567.8/34

In: 2327.552+/-0.376 χ^2/NDF : 888445.7/30

Out: 2341.889+/-0.370 χ^2/NDF : 1577836.4/35

All: 2334.827+/-0.264 χ^2/NDF : 2467020.6/66

asym_atl2_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1037.942 ± 2276.180 $\chi^2/\text{NDF}: 15.4/15$

Left Out: -1101.258 ± 773.707 $\chi^2/\text{NDF}: 22.9/16$

Right Out: 530.662 ± 767.947 $\chi^2/\text{NDF}: 18.0/18$

Left In: 2831.857 ± 2762.725 $\chi^2/\text{NDF}: 8.1/14$

Left: -815.221 ± 745.042 $\chi^2/\text{NDF}: 33.0/31$

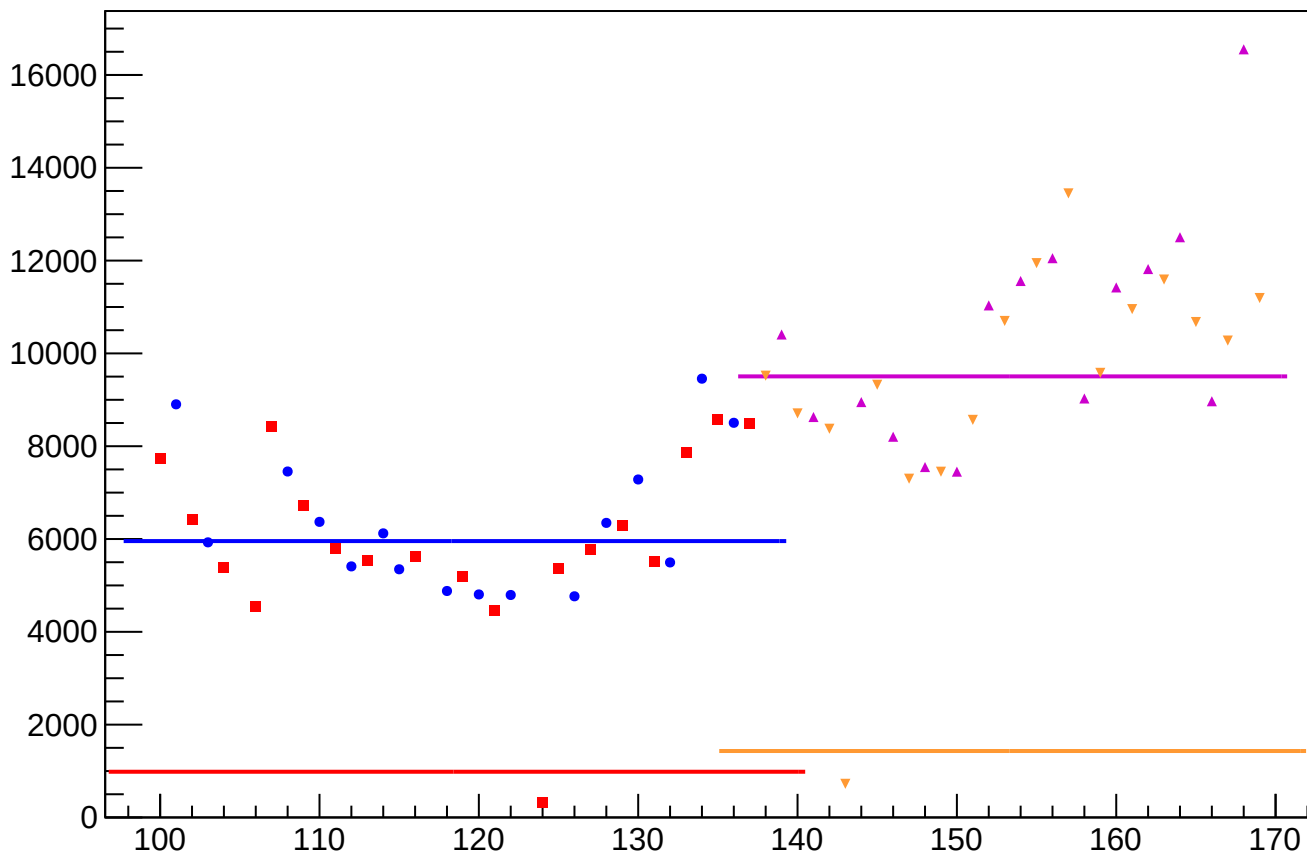
Right: 370.358 ± 727.649 $\chi^2/\text{NDF}: 33.8/34$

In: 526.751 ± 1756.742 $\chi^2/\text{NDF}: 24.7/30$

Out: -279.202 ± 545.045 $\chi^2/\text{NDF}: 43.2/35$

All: -208.432 ± 520.566 $\chi^2/\text{NDF}: 68.1/66$

asym_atl2_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 5955.638+/-1.610

χ^2/NDF : 689141.5/15

Left: 2018.919+/-0.527

χ^2/NDF : 36470367.3/31

Left Out: 1431.811+/-0.547

χ^2/NDF : 19645368.4/16

Right: 1493.016+/-0.515

χ^2/NDF : 20664769.2/34

Right Out: 985.045+/-0.543

χ^2/NDF : 11412843.1/18

In: 7390.671+/-1.242

χ^2/NDF : 3644862.6/30

Out: 1206.759+/-0.385

χ^2/NDF : 31394136.3/35

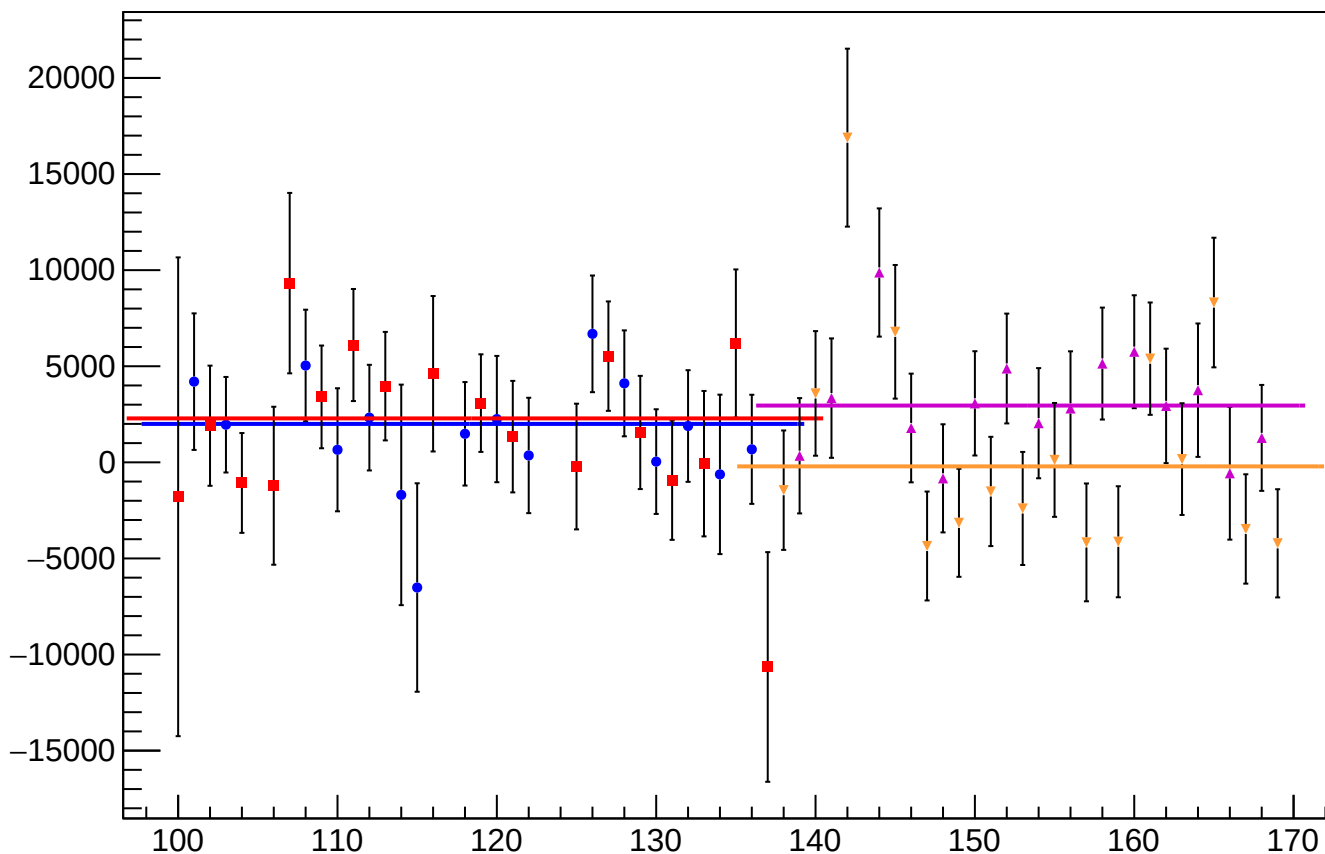
Left In: 9504.761+/-1.954

χ^2/NDF : 989649.5/14

All: 1749.758+/-0.368

χ^2/NDF : 57645157.5/6

dit_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1999.214 $\pm$ 773.538 χ^2/NDF : 9.0/15

Left Out: -211.206 $\pm$ 759.833 χ^2/NDF :40.2/15

Right Out: 2285.899 $\pm$ 771.299 χ^2/NDF : 16.7/17

Left In: 2954.299 $\pm$ 768.239 χ^2/NDF :10.6/14

Left: 1354.133 $\pm$ 540.230 χ^2/NDF : 59.3/30

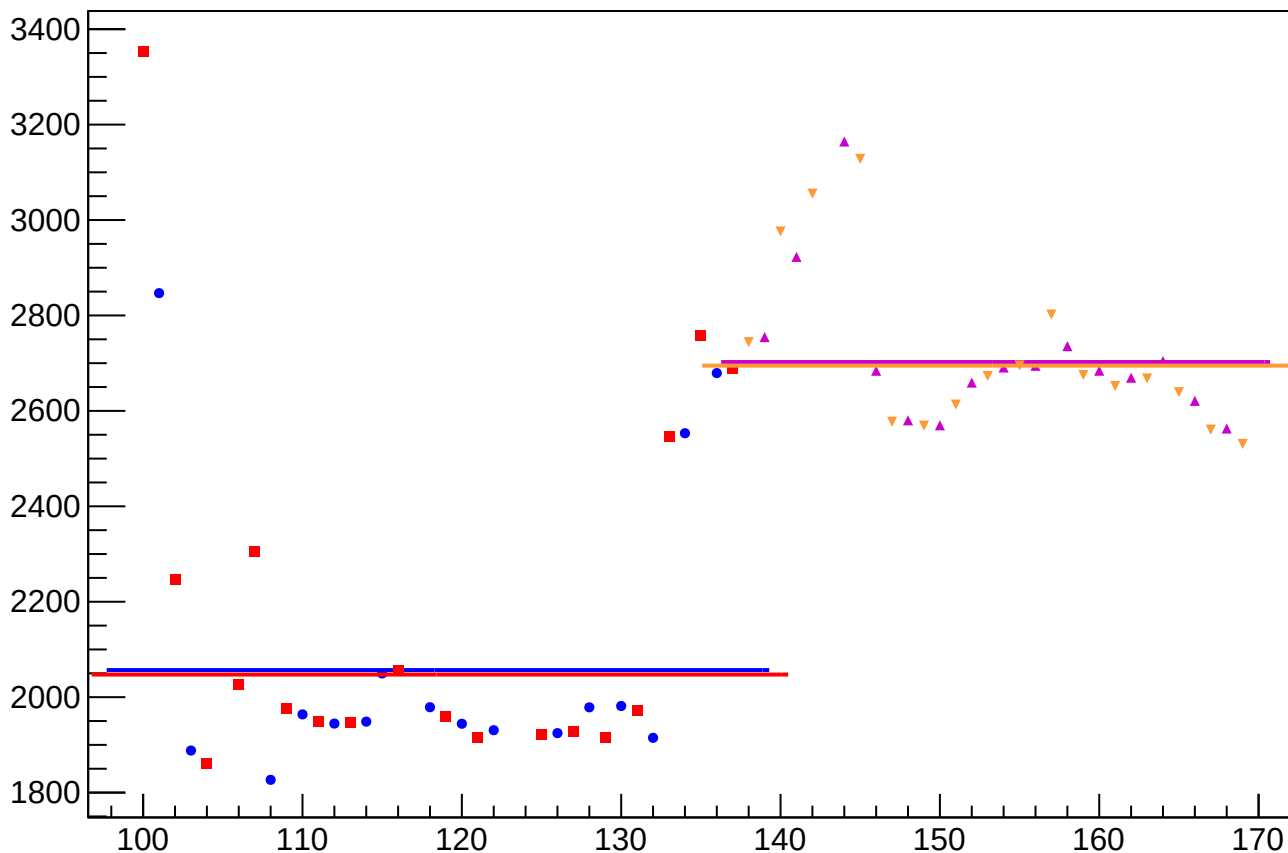
Right: 2142.972 $\pm$ 546.180 χ^2/NDF : 25.7/33

In: 2480.039 $\pm$ 545.091 χ^2/NDF :20.3/30

Out: 1018.648 $\pm$ 541.291 χ^2/NDF :62.1/33

All: 1744.233 $\pm$ 384.087 χ^2/NDF : 86.1/64

dit_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2056.796 $\pm$ 0.547 χ^2 /NDF: 270454.5/15

Left Out: 2694.855 $\pm$ 0.537 χ^2 /NDF: 82876.7/15

Right Out: 2047.400 $\pm$ 0.545 χ^2 /NDF: 196523.0/17

Left In: 2702.418 $\pm$ 0.543 χ^2 /NDF: 65021.6/14

Left: 2698.595 $\pm$ 0.382 χ^2 /NDF: 147996.2/30

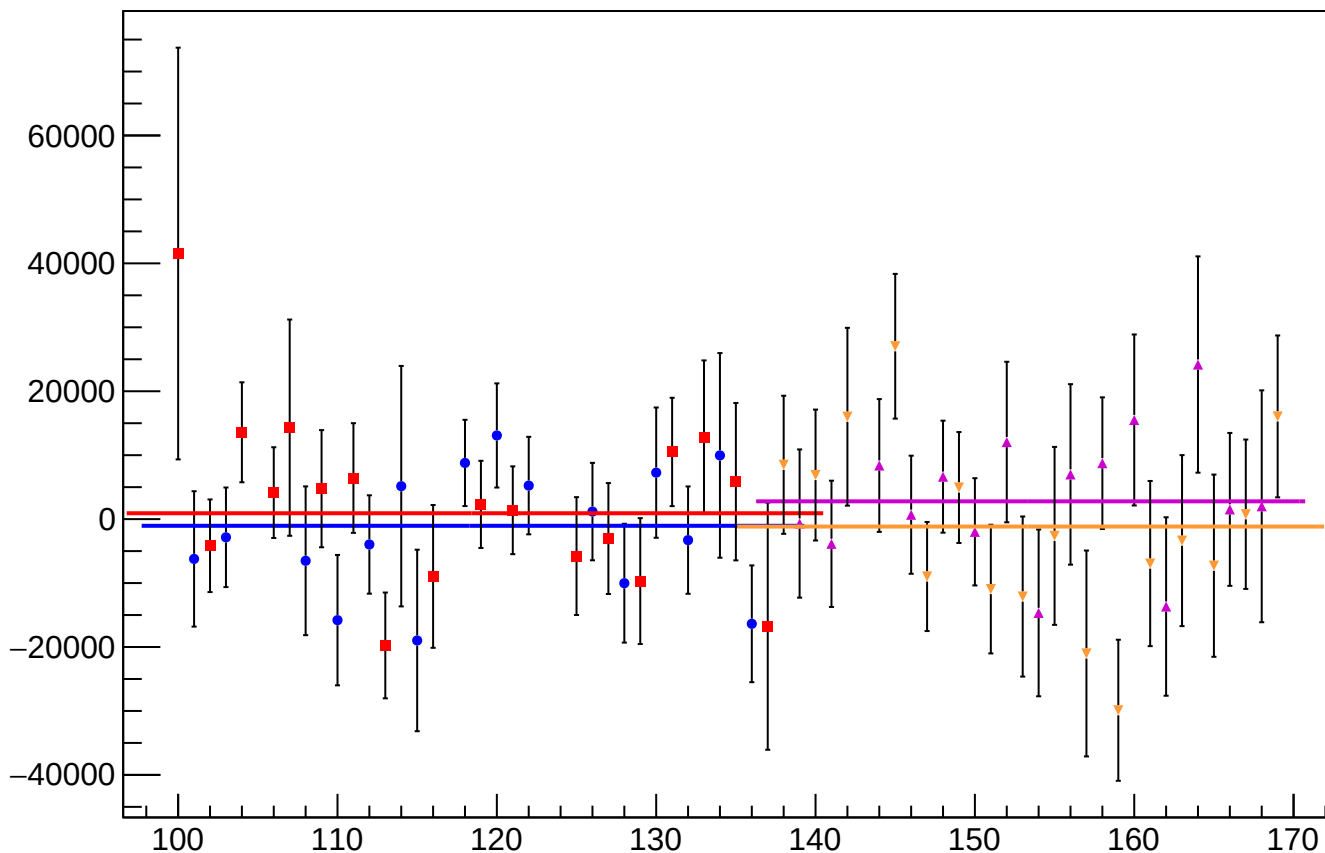
Right: 2052.077 $\pm$ 0.386 χ^2 /NDF: 467125.7/33

In: 2381.825 $\pm$ 0.385 χ^2 /NDF: 1036881.0/30

Out: 2375.487 $\pm$ 0.382 χ^2 /NDF: 995700.4/33

All: 2378.632 $\pm$ 0.271 χ^2 /NDF: 2032717.7/64

asym_atl2_dit_correction_mean vs Slug, Sign Corrected



Right In: -1042.515 $\pm$ 2294.607 χ^2/NDF : 15.3/15

Left Out: -1159.777 $\pm$ 2866.186 χ^2/NDF : 22.8/15

Right Out: 919.663 $\pm$ 2150.895 χ^2/NDF : 18.4/17

Left In: 2782.108 $\pm$ 2924.774 χ^2/NDF : 8.1/14

Left: 771.289 $\pm$ 2047.099 χ^2/NDF : 31.8/30

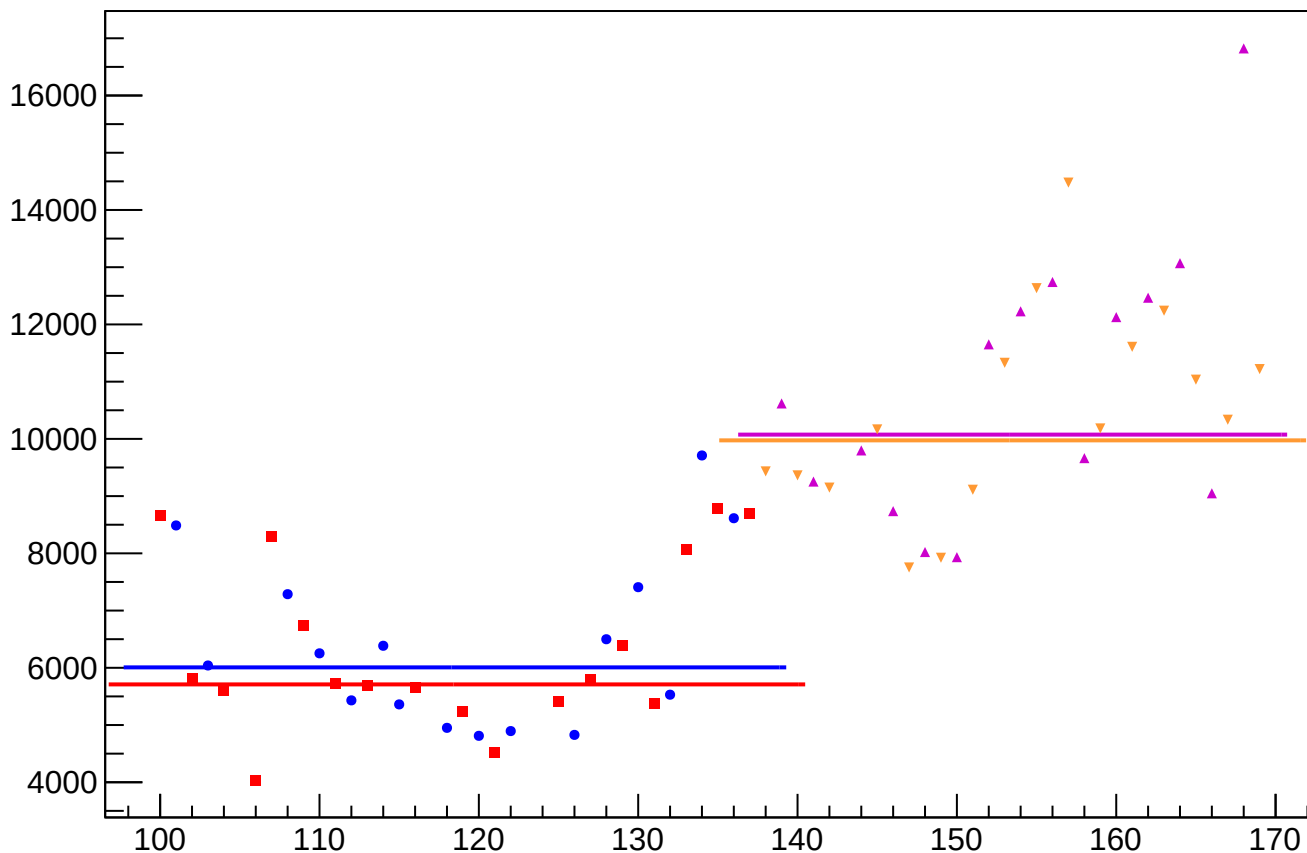
Right: 1.940 $\pm$ 1569.260 χ^2/NDF : 34.1/33

In: 414.661 $\pm$ 1805.319 χ^2/NDF : 24.4/30

Out: 170.505 $\pm$ 1720.354 χ^2/NDF : 41.5/33

All: 286.703 $\pm$ 1245.428 χ^2/NDF : 66.0/64

asym_atl2_dit_correction_rms vs Slug, Sign Corrected



Right In: 6007.425+/-1.623 χ^2/NDF : 653996.7/15

Left Out: 9974.198+/-2.027 χ^2/NDF : 657543.3/15

Right Out: 5709.903+/-1.521 χ^2/NDF : 535926.2/17

Left In: 10074.591+/-2.068 χ^2/NDF : 922885.0/14

Left: 10023.379+/-1.448 χ^2/NDF : 1581630.4/30

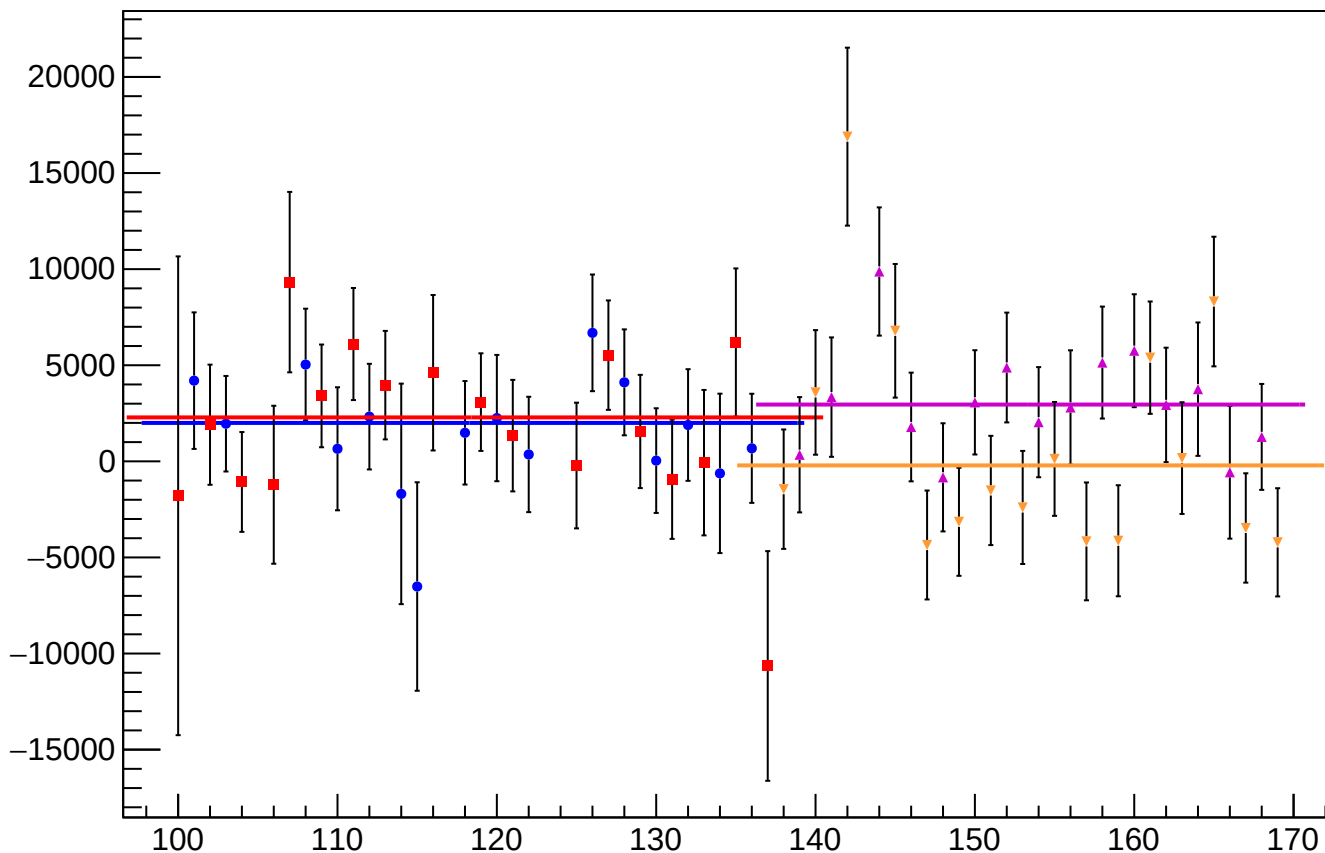
Right: 5849.056+/-1.110 χ^2/NDF : 1207820.8/33

In: 7557.010+/-1.277 χ^2/NDF : 3970863.6/30

Out: 7246.196+/-1.216 χ^2/NDF : 4025598.7/33

All: 7394.117+/-0.881 χ^2/NDF : 8027531.2/64

eigen_dit_asym_atl2_mean vs Slug, Sign Corrected



Right In: 1999.218+/-773.538 χ^2/NDF : 9.0/15

Left Out: -211.217+/-759.834 χ^2/NDF : 40.2/15

Right Out: 2285.903+/-771.299 χ^2/NDF : 16.7/17

Left In: 2954.300+/-768.240 χ^2/NDF : 10.6/14

Left: 1354.128+/-540.231 χ^2/NDF : 59.3/30

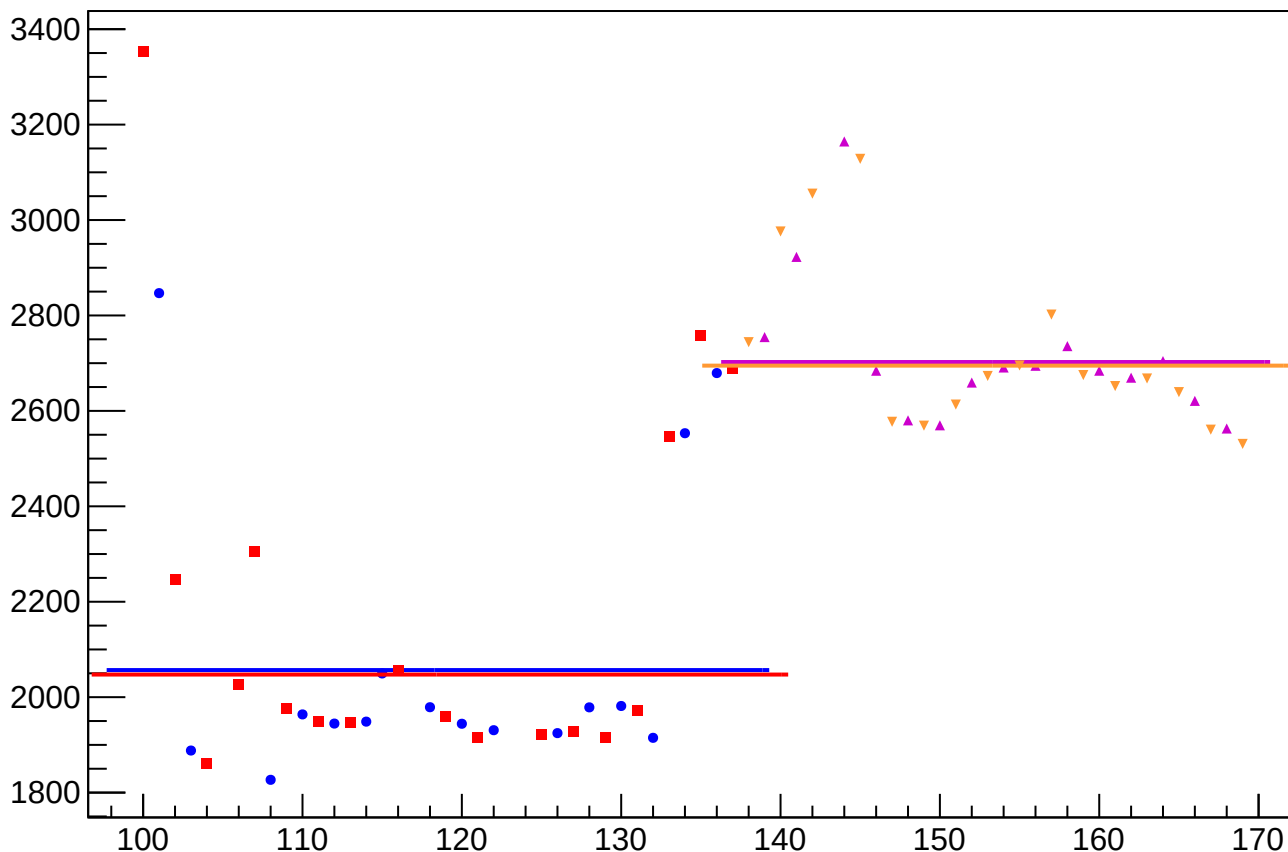
Right: 2142.976+/-546.180 χ^2/NDF : 25.7/33

In: 2480.041+/-545.091 χ^2/NDF : 20.3/30

Out: 1018.646+/-541.291 χ^2/NDF : 62.1/33

All: 1744.233+/-384.087 χ^2/NDF : 86.1/64

eigen_dit_asym_atl2_rms vs Slug, Sign Corrected



Right In: 2056.796 $\pm$ 0.547 χ^2 /NDF: 270454.5/15

Left Out: 2694.858 $\pm$ 0.537 χ^2 /NDF: 82878.3/15

Right Out: 2047.400 $\pm$ 0.545 χ^2 /NDF: 196523.3/17

Left In: 2702.421 $\pm$ 0.543 χ^2 /NDF: 65022.3/14

Left: 2698.598 $\pm$ 0.382 χ^2 /NDF: 147998.5/30

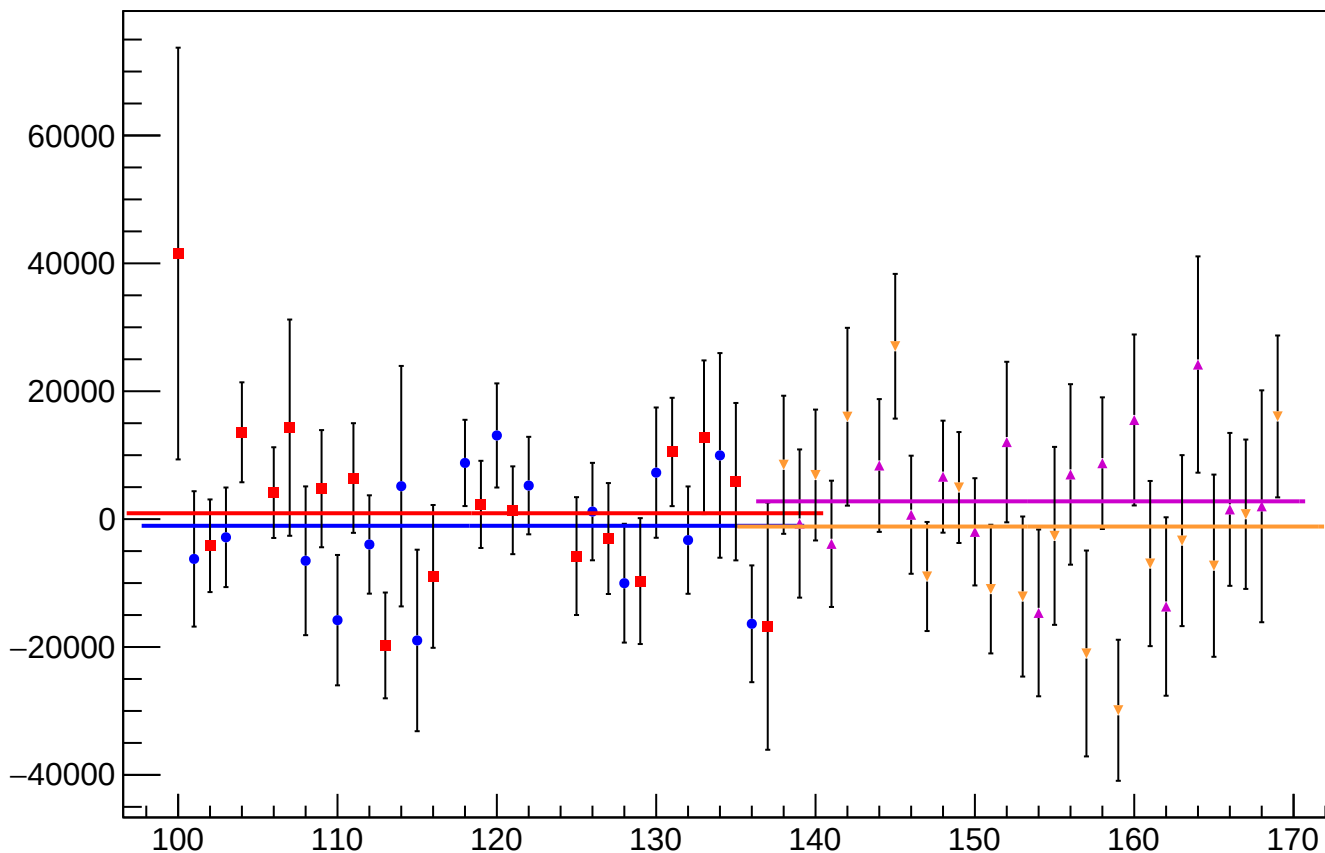
Right: 2052.077 $\pm$ 0.386 χ^2 /NDF: 467125.9/33

In: 2381.827 $\pm$ 0.385 χ^2 /NDF: 1036886.8/30

Out: 2375.488 $\pm$ 0.382 χ^2 /NDF: 995707.8/33

All: 2378.633 $\pm$ 0.271 χ^2 /NDF: 2032730.8/64

asym_atl2_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1042.503 $\pm$ 2294.600 χ^2 /NDF: 15.3/15

Left Out: -1159.786 $\pm$ 2866.190 χ^2 /NDF:22.8/15

Right Out: 919.667 $\pm$ 2150.889 χ^2 /NDF: 18.4/17

Left In: 2782.108 $\pm$ 2924.778 χ^2 /NDF:8.1/14

Left: 771.285 $\pm$ 2047.102 χ^2 /NDF: 31.8/30

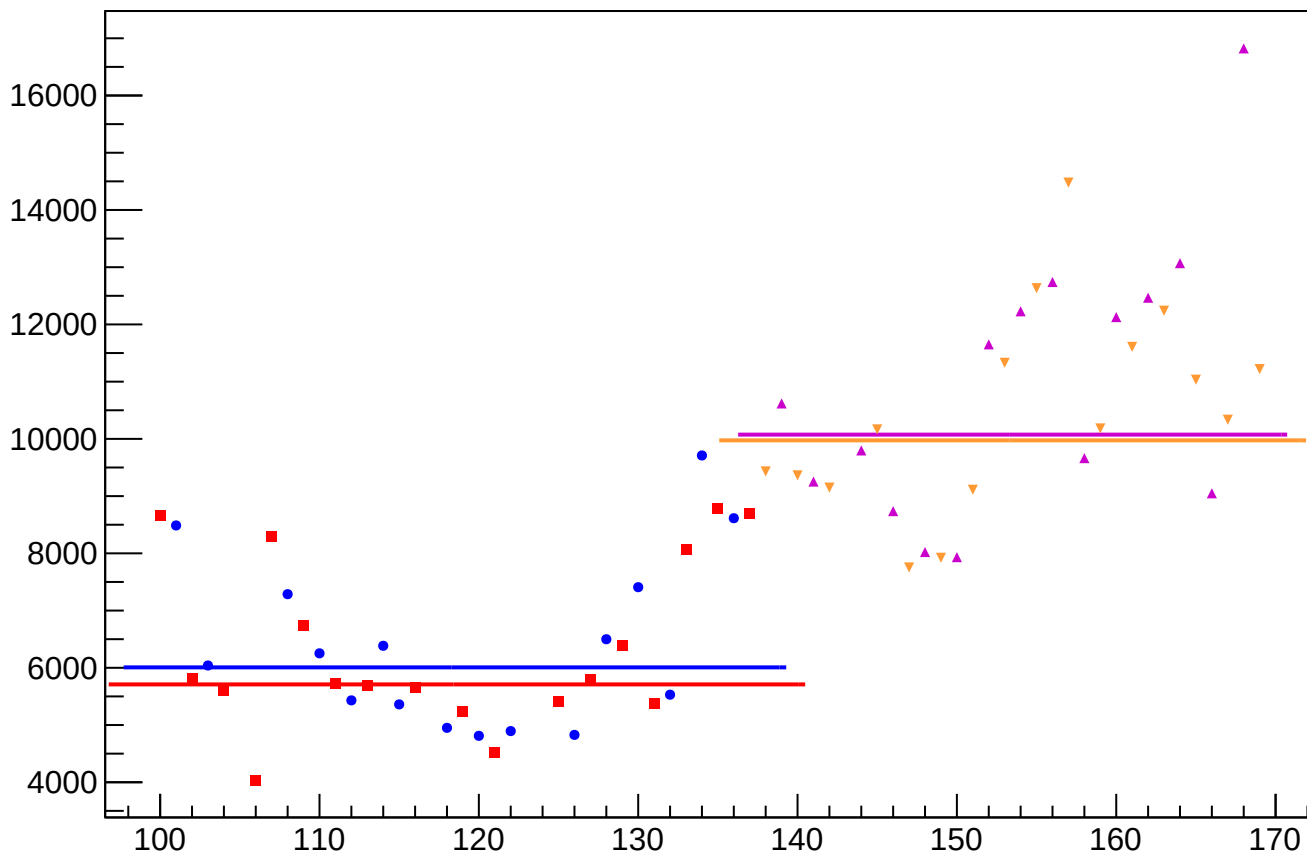
Right: 1.948 $\pm$ 1569.255 χ^2 /NDF: 34.1/33

In: 414.661 $\pm$ 1805.317 χ^2 /NDF:24.4/30

Out: 170.509 $\pm$ 1720.352 χ^2 /NDF:41.5/33

All: 286.705 $\pm$ 1245.427 χ^2 /NDF: 66.0/64

asym_atl2_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 6007.405+/-1.623 χ^2/NDF : 654004.9/15

Left Out: 9974.211+/-2.027 χ^2/NDF : 657546.2/15

Right Out: 5709.885+/-1.521 χ^2/NDF : 535929.9/17

Left In: 10074.604+/-2.068 χ^2/NDF : 922888.2/14

Left: 10023.392+/-1.448 χ^2/NDF : 1581636.4/30

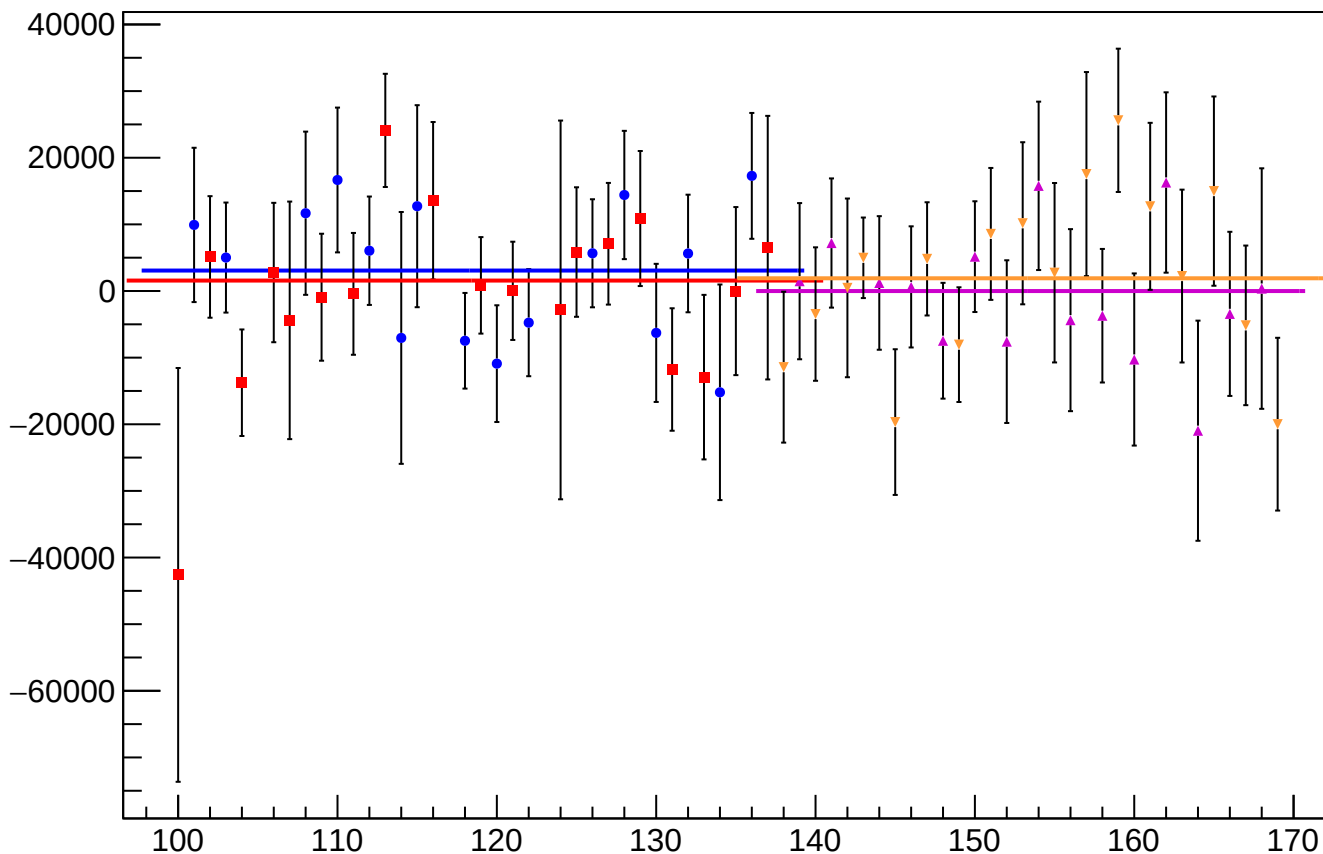
Right: 5849.037+/-1.110 χ^2/NDF : 1207832.6/33

In: 7556.994+/-1.277 χ^2/NDF : 3970914.9/30

Out: 7246.181+/-1.216 χ^2/NDF : 4025646.2/33

All: 7394.102+/-0.881 χ^2/NDF : 8027629.8/64

asym_atl2_mean vs Slug, Sign Corrected



Right In: 3070.293 $\pm$ 2420.721 χ^2 /NDF: 14.9/15

Left Out: 1909.312 $\pm$ 2564.802 χ^2 /NDF: 18.9/16

Right Out: 1567.088 $\pm$ 2335.884 χ^2 /NDF: 19.2/18

Left In: -7.075 $\pm$ 2877.582 χ^2 /NDF: 7.7/14

Left: 1060.893 $\pm$ 1914.658 χ^2 /NDF: 26.8/31

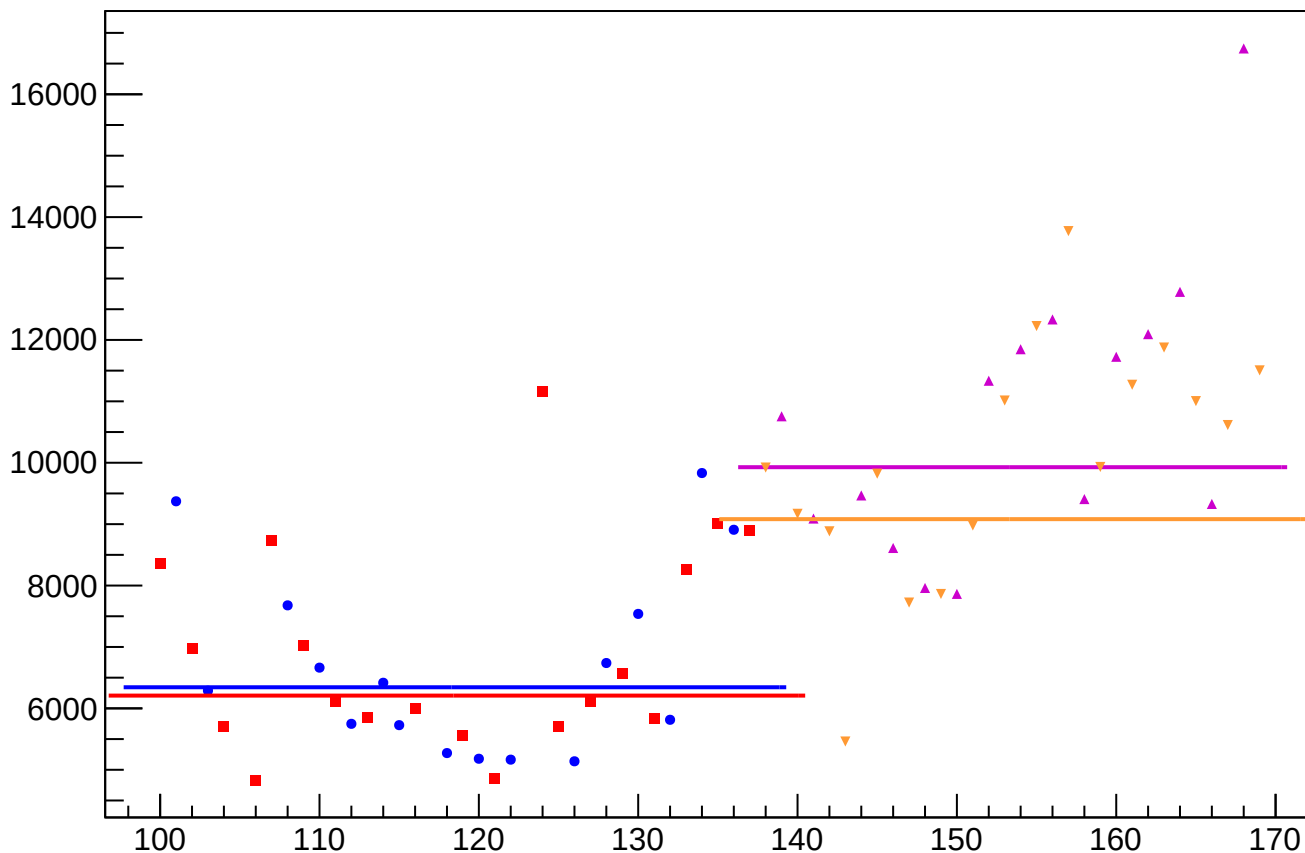
Right: 2291.888 $\pm$ 1680.911 χ^2 /NDF: 34.3/34

In: 1795.005 $\pm$ 1852.431 χ^2 /NDF: 23.2/30

Out: 1722.249 $\pm$ 1726.990 χ^2 /NDF: 38.1/35

All: 1756.080 $\pm$ 1263.187 χ^2 /NDF: 61.3/66

asym_atl2_rms vs Slug, Sign Corrected



Right In: 6343.796+/-1.712 χ^2/NDF : 621240.2/15

Left Out: 9081.515+/-1.814 χ^2/NDF : 1482947.1/16

Right Out: 6208.099+/-1.652 χ^2/NDF : 471840.9/18

Left In: 9927.552+/-2.035 χ^2/NDF : 876892.1/14

Left: 9456.071+/-1.354 χ^2/NDF : 2456184.1/31

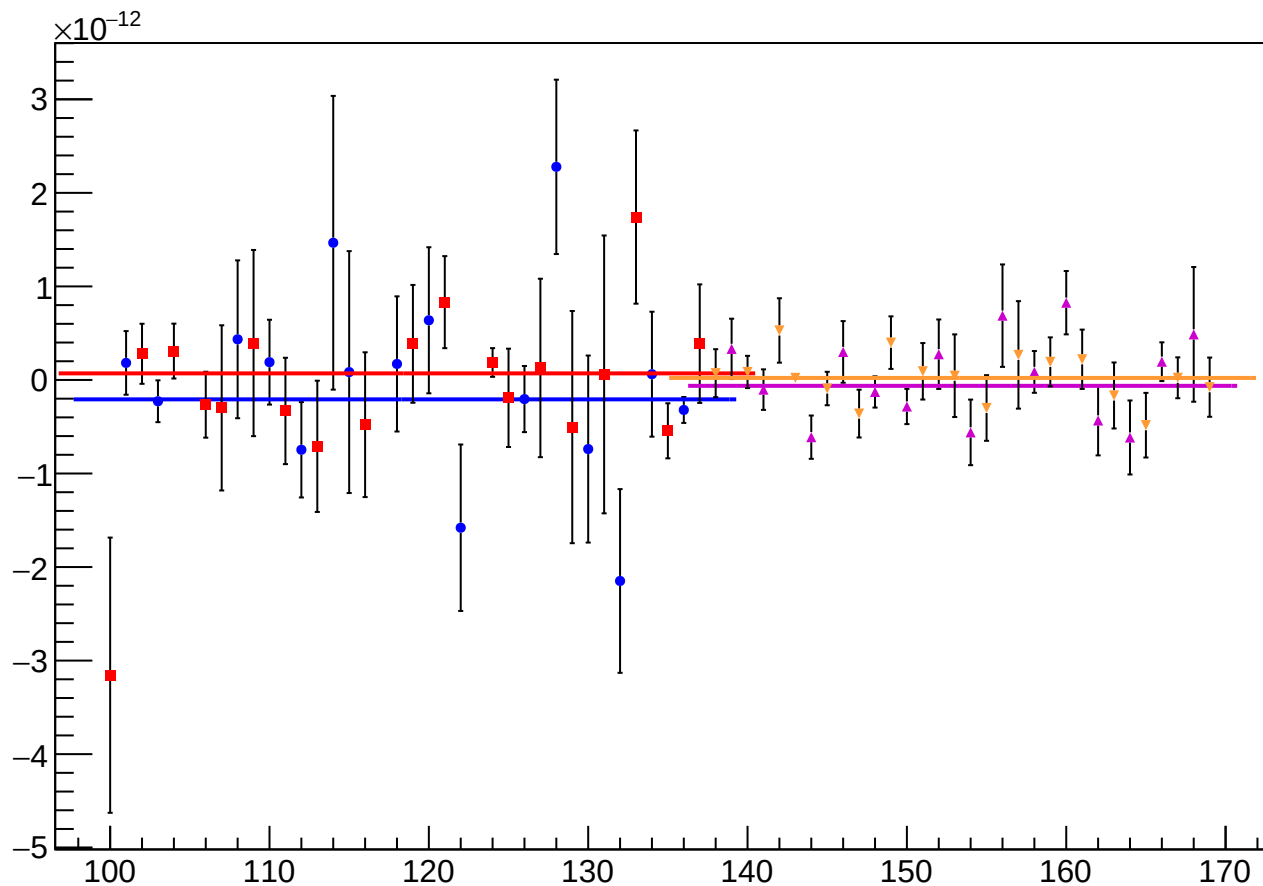
Right: 6273.528+/-1.189 χ^2/NDF : 1096335.5/34

In: 7828.933+/-1.310 χ^2/NDF : 3314680.0/30

Out: 7510.874+/-1.221 χ^2/NDF : 3326925.5/35

All: 7658.771+/-0.893 χ^2/NDF : 6673149.6/66

asym_atl2_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 20.9/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 11.2/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 20.9/18

Left In: -0.000 ± 0.000 χ^2/NDF : 27.0/14

Left: 0.000 ± 0.000 χ^2/NDF : 39.5/31

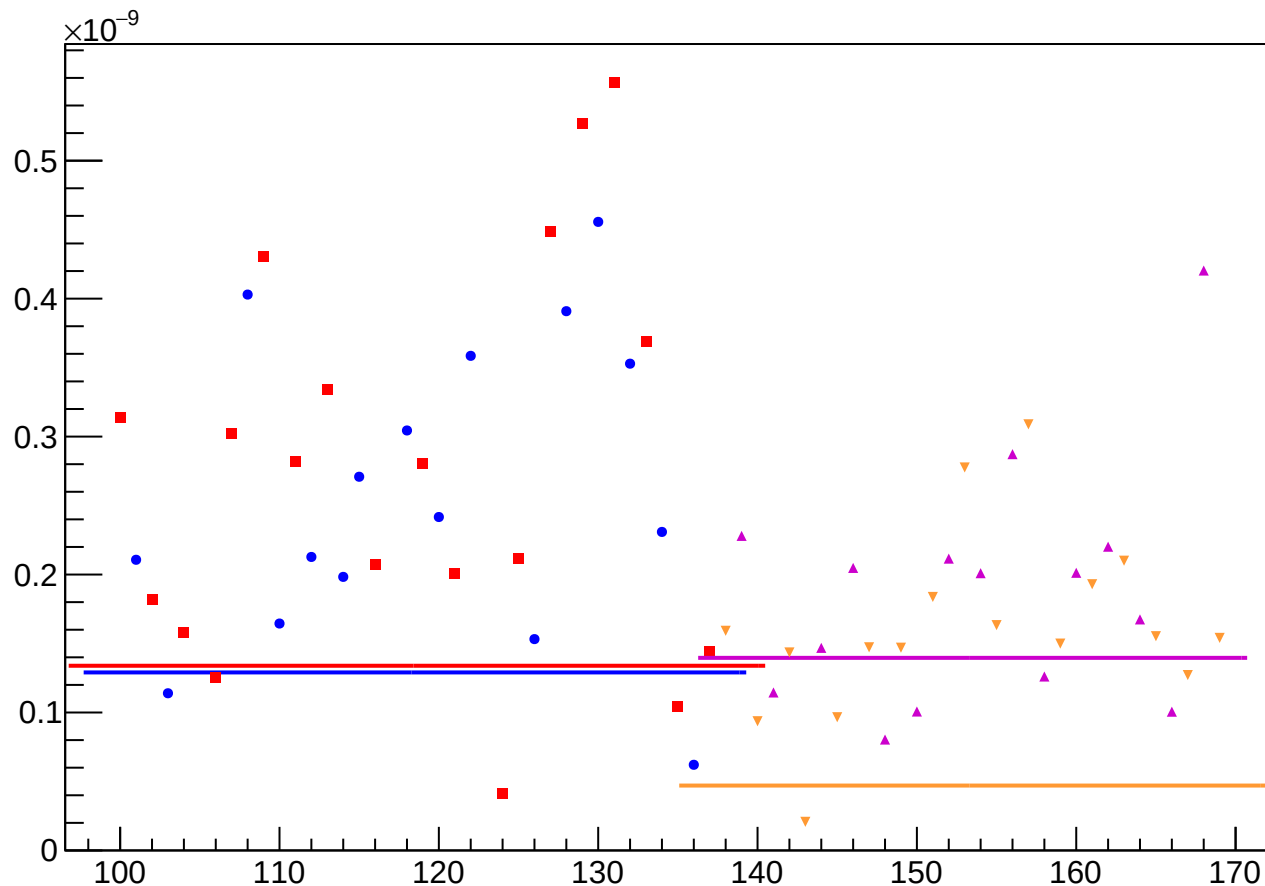
Right: -0.000 ± 0.000 χ^2/NDF : 46.0/34

In: -0.000 ± 0.000 χ^2/NDF : 49.5/30

Out: 0.000 ± 0.000 χ^2/NDF : 32.3/35

All: -0.000 ± 0.000 χ^2/NDF : 86.6/66

asym_atl2_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1720321.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 5937462.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2304489.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 1428022.5/14

Left: 0.000+/-0.000 χ^2/NDF : 10333525.8/31

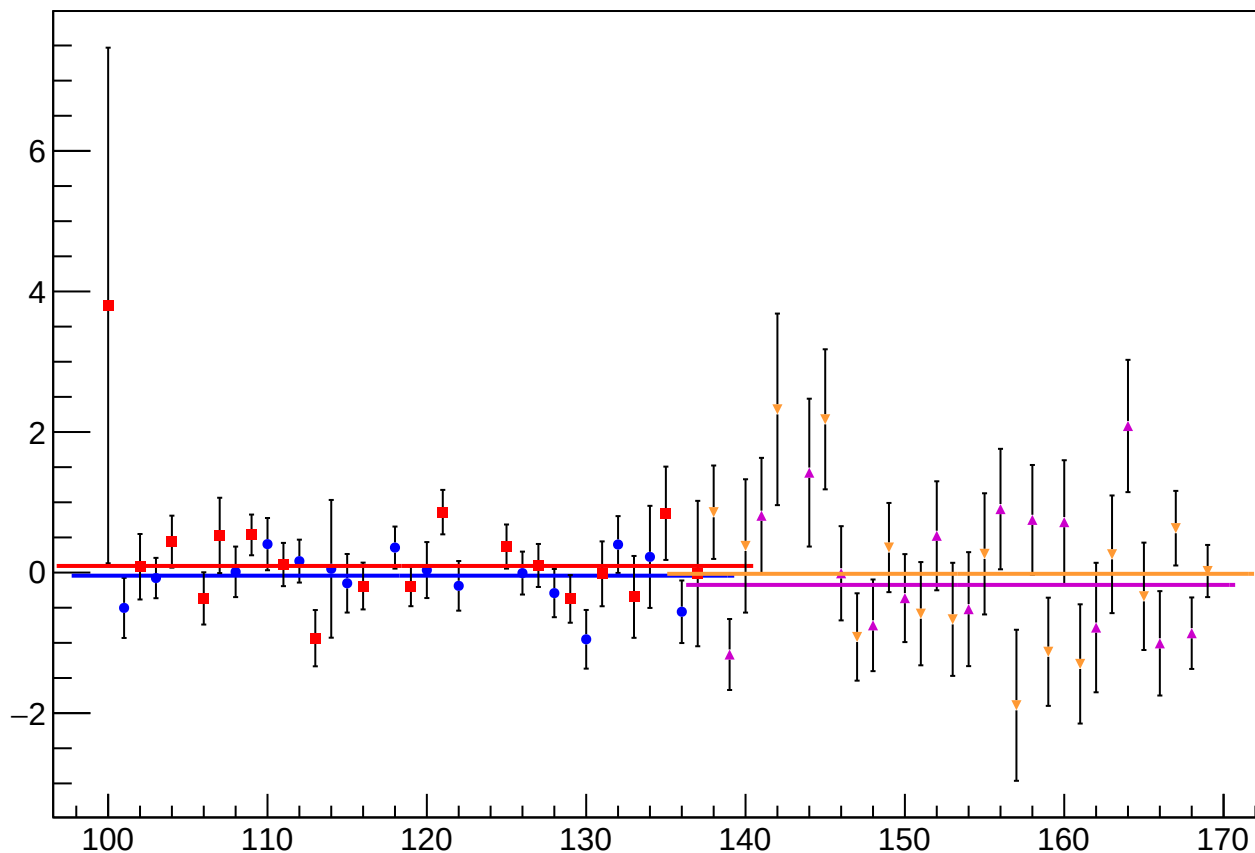
Right: 0.000+/-0.000 χ^2/NDF : 4027379.9/34

In: 0.000+/-0.000 χ^2/NDF : 3164463.3/30

Out: 0.000+/-0.000 χ^2/NDF : 9726787.7/35

All: 0.000+/-0.000 χ^2/NDF : 16103109.7/66

asym_atl2_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.044 ± 0.094 χ^2/NDF : 13.1/15

Left Out: -0.018 ± 0.175 χ^2/NDF : 22.7/15

Right Out: 0.094 ± 0.090 χ^2/NDF : 25.3/17

Left In: -0.175 ± 0.186 χ^2/NDF : 22.8/14

Left: -0.092 ± 0.127 χ^2/NDF : 45.9/30

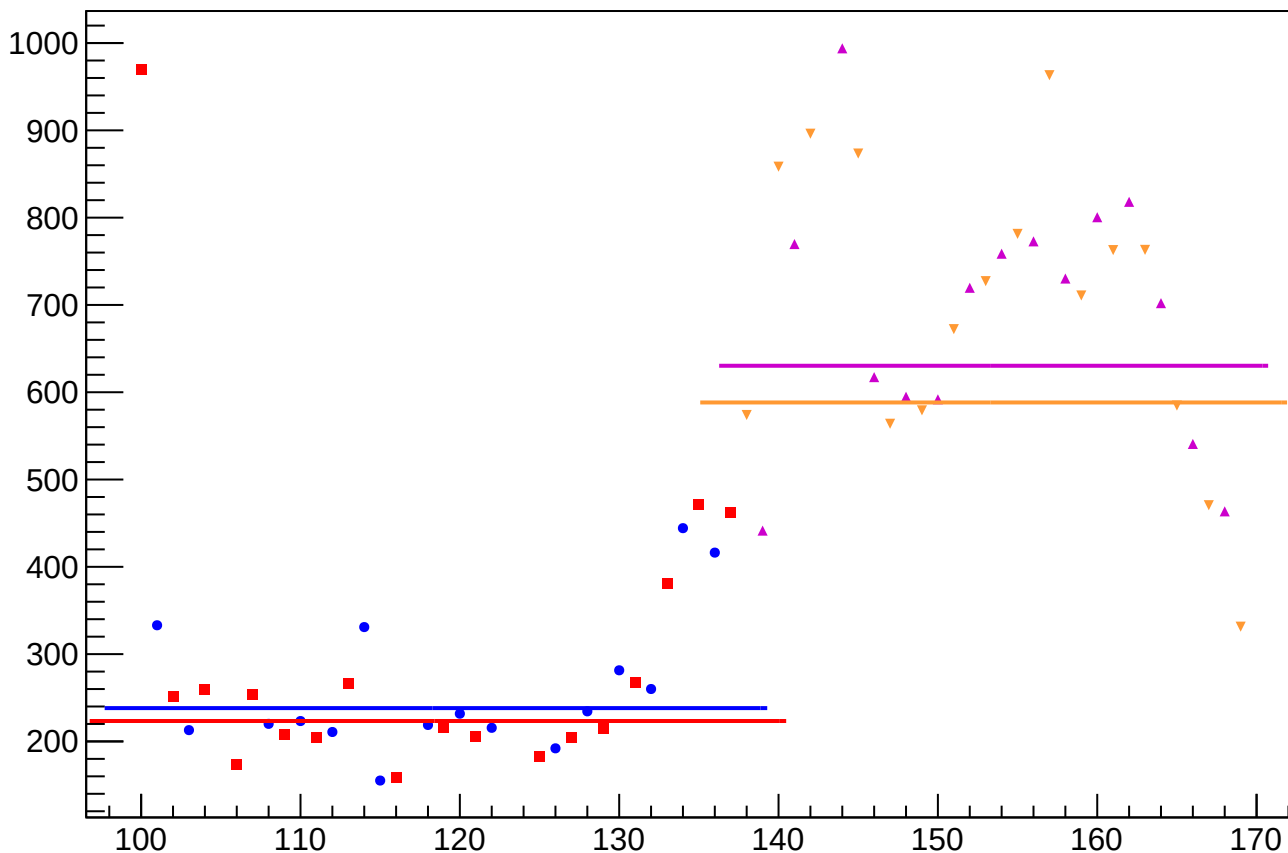
Right: 0.028 ± 0.065 χ^2/NDF : 39.5/33

In: -0.071 ± 0.084 χ^2/NDF : 36.3/30

Out: 0.071 ± 0.080 χ^2/NDF : 48.3/33

All: 0.003 ± 0.058 χ^2/NDF : 86.1/64

asym_atl2_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 238.165+/-0.066 χ^2/NDF : 807205.2/15

Left Out: 588.279+/-0.124 χ^2/NDF : 2140753.8/15

Right Out: 223.388+/-0.064 χ^2/NDF : 862425.5/17

Left In: 630.327+/-0.132 χ^2/NDF : 1168413.3/14

Left: 608.026+/-0.090 χ^2/NDF : 3363351.3/30

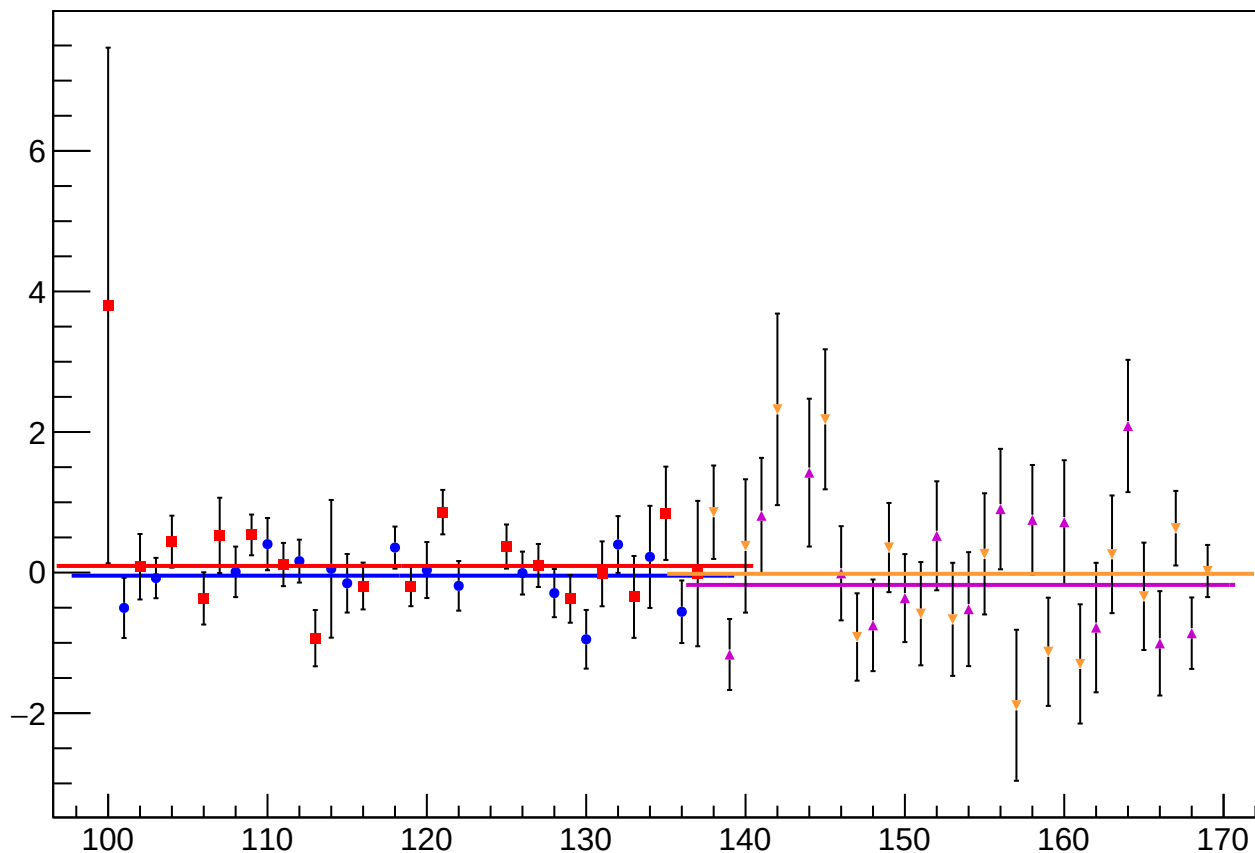
Right: 230.474+/-0.046 χ^2/NDF : 1695464.7/33

In: 317.645+/-0.059 χ^2/NDF : 9060886.0/30

Out: 299.714+/-0.057 χ^2/NDF : 9874649.8/33

All: 308.276+/-0.041 χ^2/NDF : 18983429.6/64

asym_atl2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.044 ± 0.094 χ^2/NDF : 13.1/15

Left Out: -0.018 ± 0.175 χ^2/NDF : 22.7/15

Right Out: 0.094 ± 0.090 χ^2/NDF : 25.3/17

Left In: -0.175 ± 0.186 χ^2/NDF : 22.8/14

Left: -0.092 ± 0.127 χ^2/NDF : 45.9/30

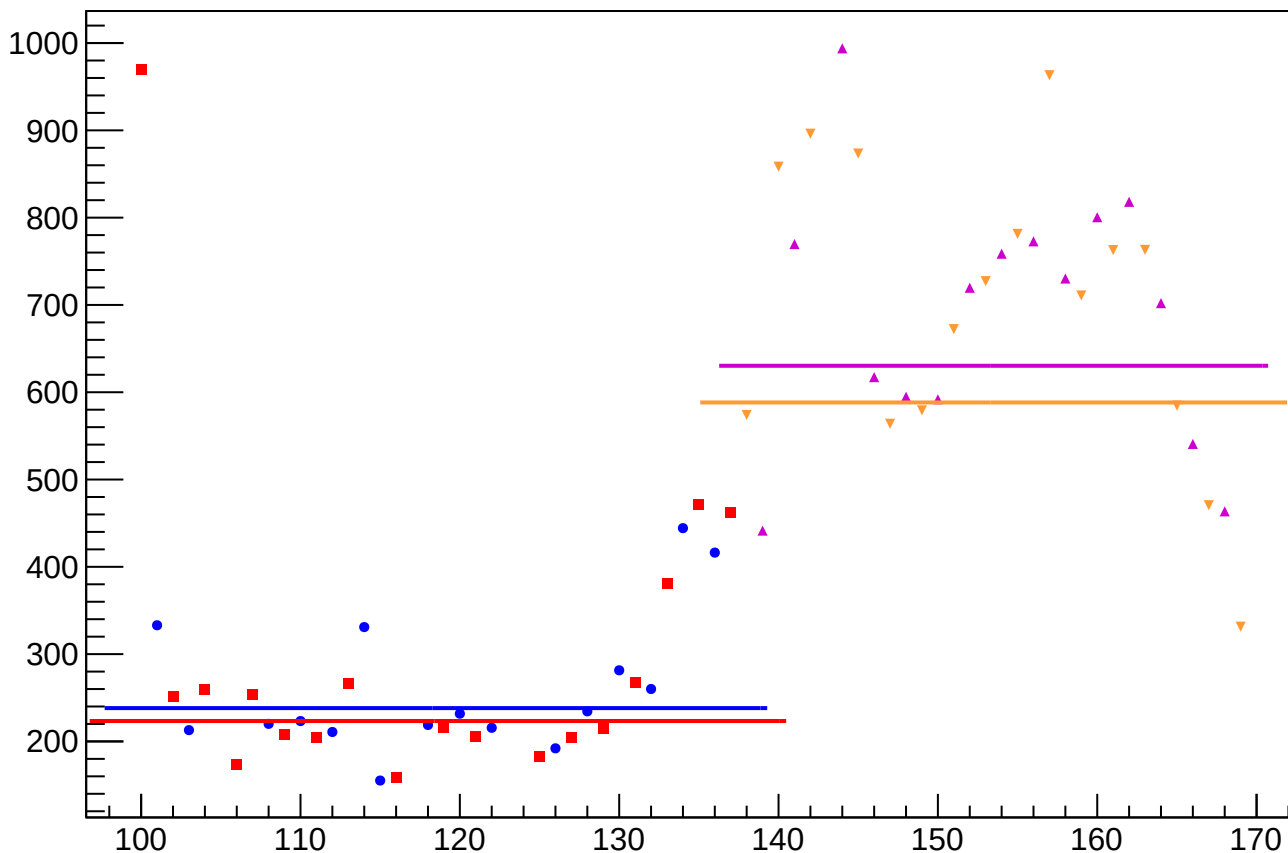
Right: 0.028 ± 0.065 χ^2/NDF : 39.5/33

In: -0.071 ± 0.084 χ^2/NDF : 36.3/30

Out: 0.071 ± 0.080 χ^2/NDF : 48.3/33

All: 0.003 ± 0.058 χ^2/NDF : 86.1/64

asym_atl2_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 238.165+/-0.066 χ^2/NDF : 807205.2/15

Left Out: 588.279+/-0.124 χ^2/NDF :2140753.8/15

Right Out: 223.388+/-0.064 χ^2/NDF : 862425.5/17

Left In: 630.327+/-0.132 χ^2/NDF :1168413.3/14

Left: 608.026+/-0.090 χ^2/NDF : 3363351.3/30

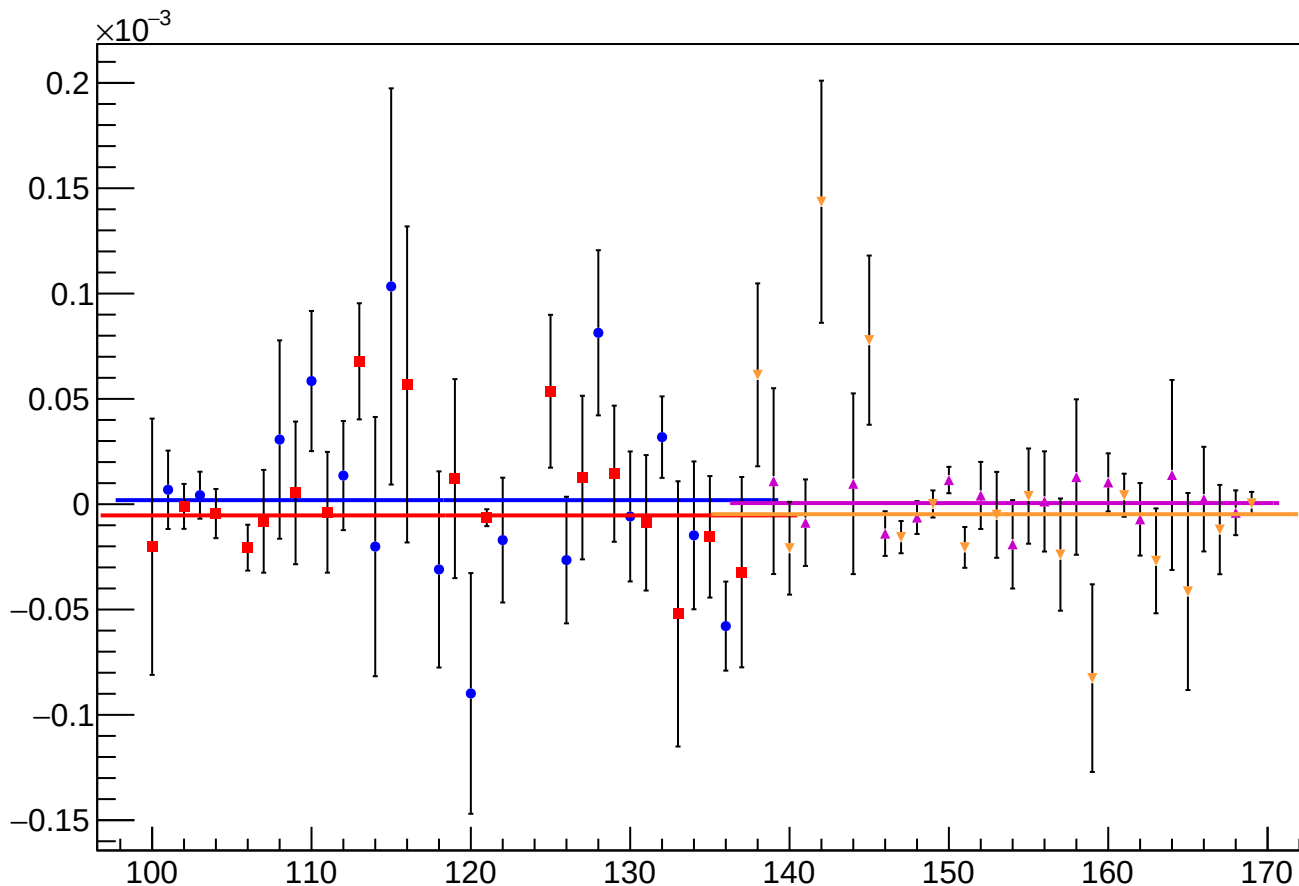
Right: 230.474+/-0.046 χ^2/NDF : 1695464.7/33

In: 317.645+/-0.059 χ^2/NDF :9060886.0/30

Out: 299.714+/-0.057 χ^2/NDF :9874649.8/33

All: 308.276+/-0.041 χ^2/NDF : 18983429.6/64

asym_atl2_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 25.9/15

Right Out: -0.000+/-0.000 χ^2/NDF : 14.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 8.0/14

Left: -0.000+/-0.000 χ^2/NDF : 35.2/30

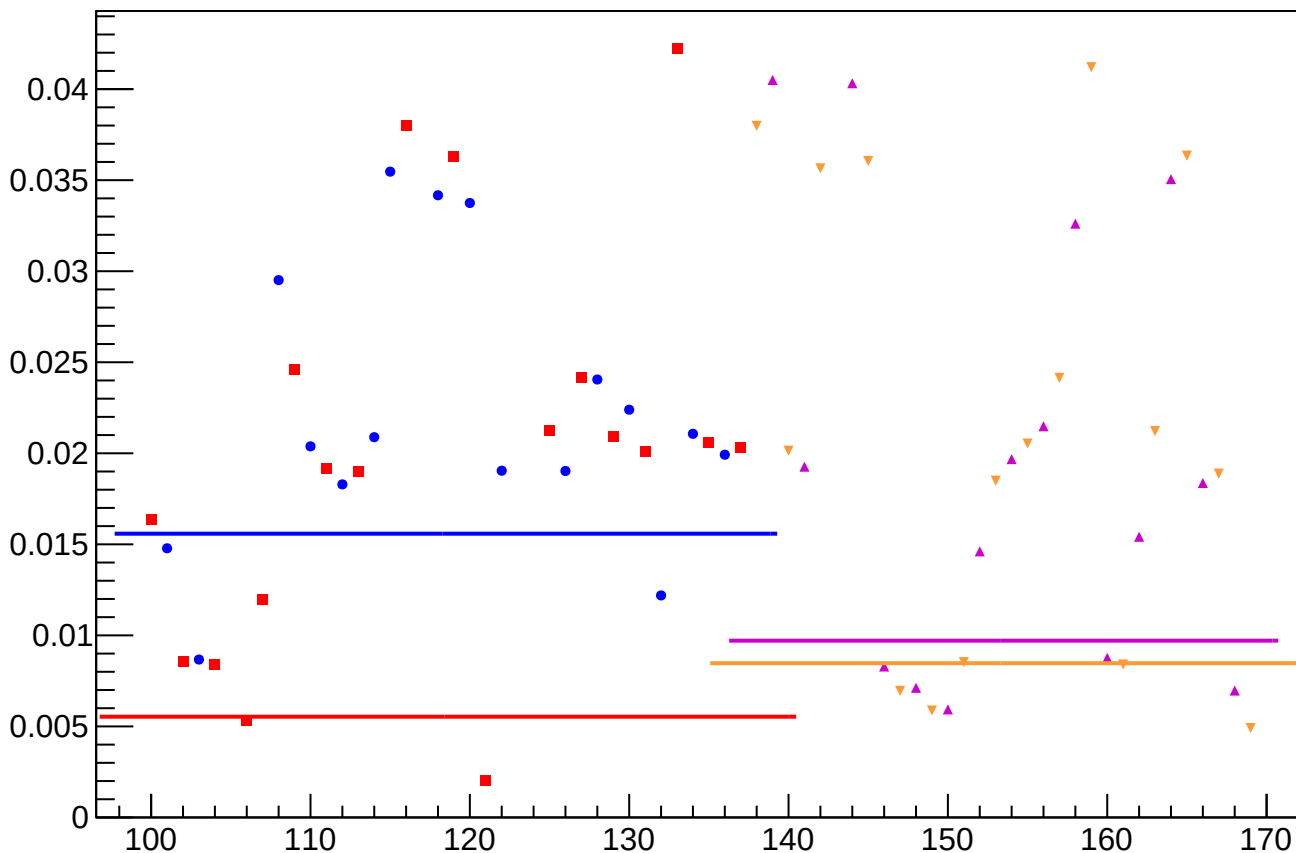
Right: -0.000+/-0.000 χ^2/NDF : 39.6/33

In: 0.000+/-0.000 χ^2/NDF : 32.1/30

Out: -0.000+/-0.000 χ^2/NDF : 40.4/33

All: -0.000+/-0.000 χ^2/NDF : 75.0/64

asym_atl2_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 2074656.7/15

Left Out: 0.008+/-0.000 χ^2/NDF : 8670082.0/15

Right Out: 0.006+/-0.000 χ^2/NDF : 7954965.8/17

Left In: 0.010+/-0.000 χ^2/NDF : 6546863.6/14

Left: 0.009+/-0.000 χ^2/NDF : 15361108.0/30

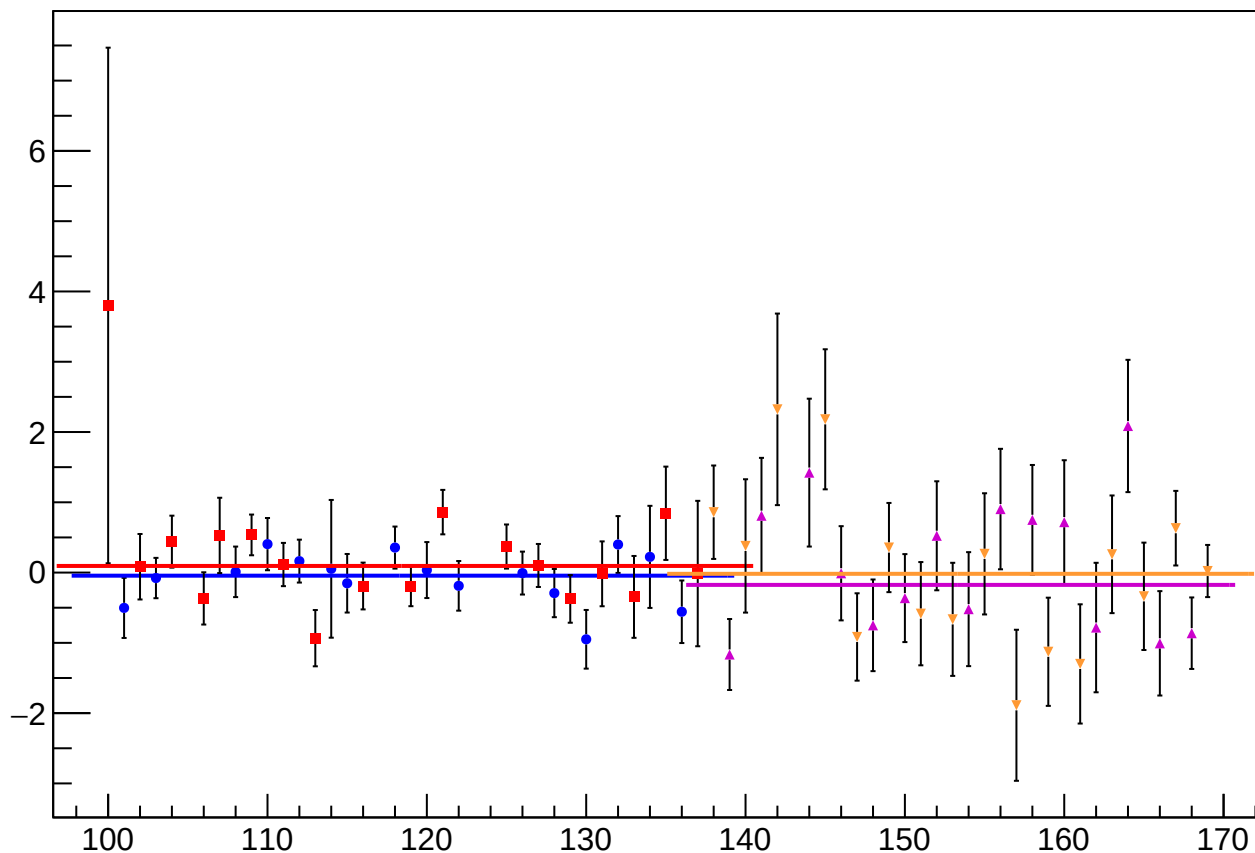
Right: 0.008+/-0.000 χ^2/NDF : 13999634.8/33

In: 0.011+/-0.000 χ^2/NDF : 9929270.1/30

Out: 0.007+/-0.000 χ^2/NDF : 17514095.9/33

All: 0.008+/-0.000 χ^2/NDF : 29674696.3/64

asym_atl2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.044 ± 0.094 χ^2/NDF : 13.1/15

Left Out: -0.018 ± 0.175 χ^2/NDF : 22.7/15

Right Out: 0.094 ± 0.090 χ^2/NDF : 25.3/17

Left In: -0.175 ± 0.186 χ^2/NDF : 22.8/14

Left: -0.092 ± 0.127 χ^2/NDF : 45.9/30

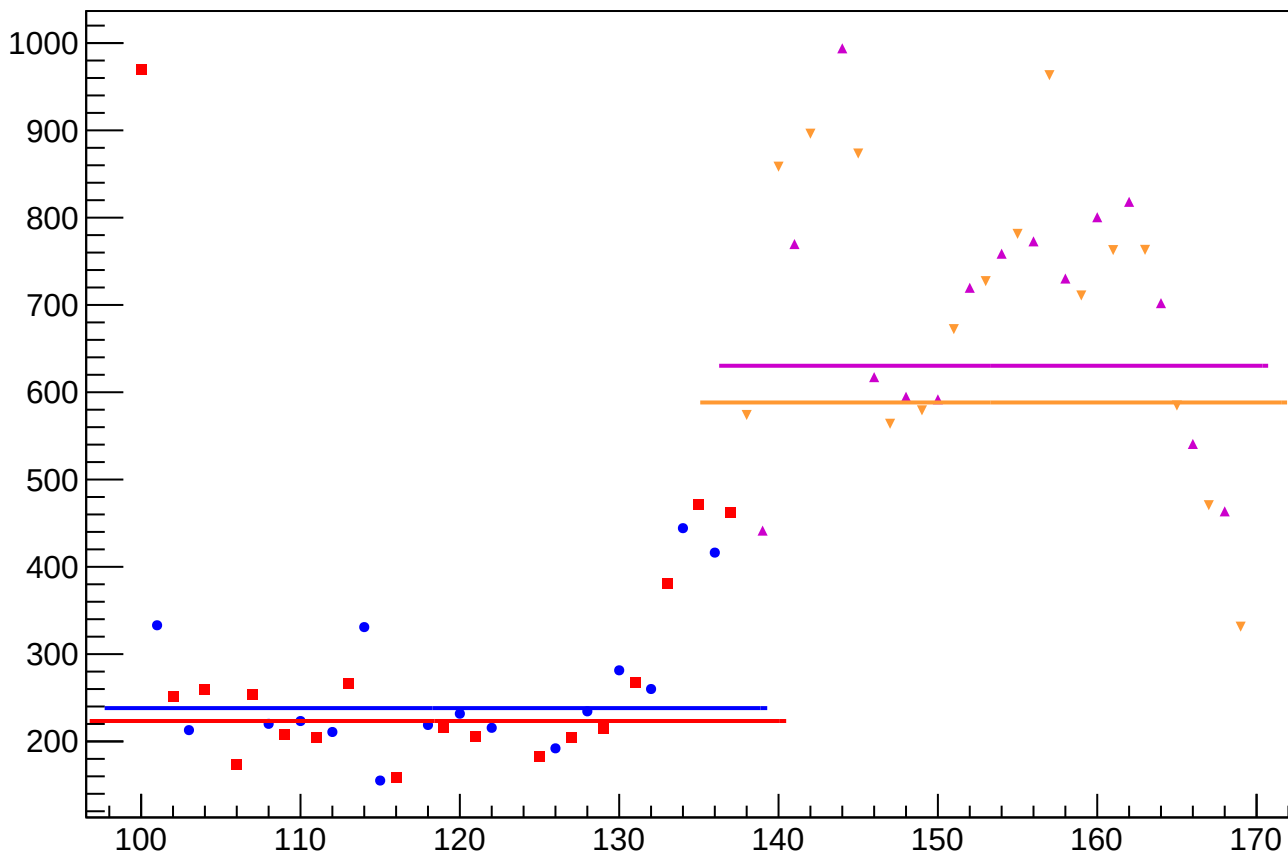
Right: 0.028 ± 0.065 χ^2/NDF : 39.5/33

In: -0.071 ± 0.084 χ^2/NDF : 36.3/30

Out: 0.071 ± 0.080 χ^2/NDF : 48.3/33

All: 0.003 ± 0.058 χ^2/NDF : 86.1/64

asym_atl2_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 238.165+/-0.066 χ^2/NDF : 807170.1/15

Left Out: 588.284+/-0.124 χ^2/NDF :2140839.6/15

Right Out: 223.390+/-0.064 χ^2/NDF : 862366.3/17

Left In: 630.337+/-0.132 χ^2/NDF :1168404.0/14

Left: 608.033+/-0.090 χ^2/NDF : 3363438.2/30

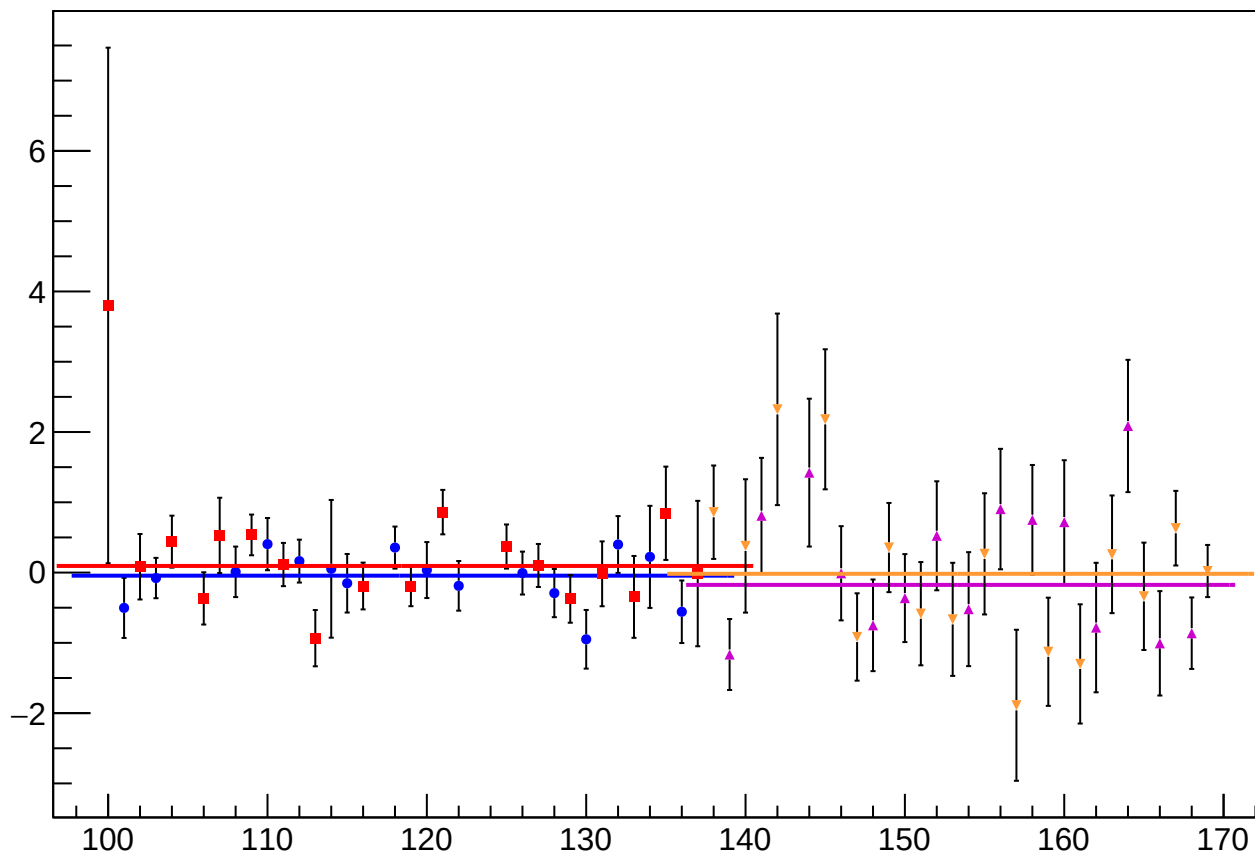
Right: 230.475+/-0.046 χ^2/NDF : 1695367.2/33

In: 317.645+/-0.059 χ^2/NDF :9060987.1/30

Out: 299.716+/-0.057 χ^2/NDF :9874688.0/33

All: 308.277+/-0.041 χ^2/NDF : 18983565.1/64

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.044 ± 0.094 χ^2/NDF : 13.1/15

Left Out: -0.018 ± 0.175 χ^2/NDF : 22.7/15

Right Out: 0.094 ± 0.090 χ^2/NDF : 25.3/17

Left In: -0.175 ± 0.186 χ^2/NDF : 22.8/14

Left: -0.092 ± 0.127 χ^2/NDF : 45.9/30

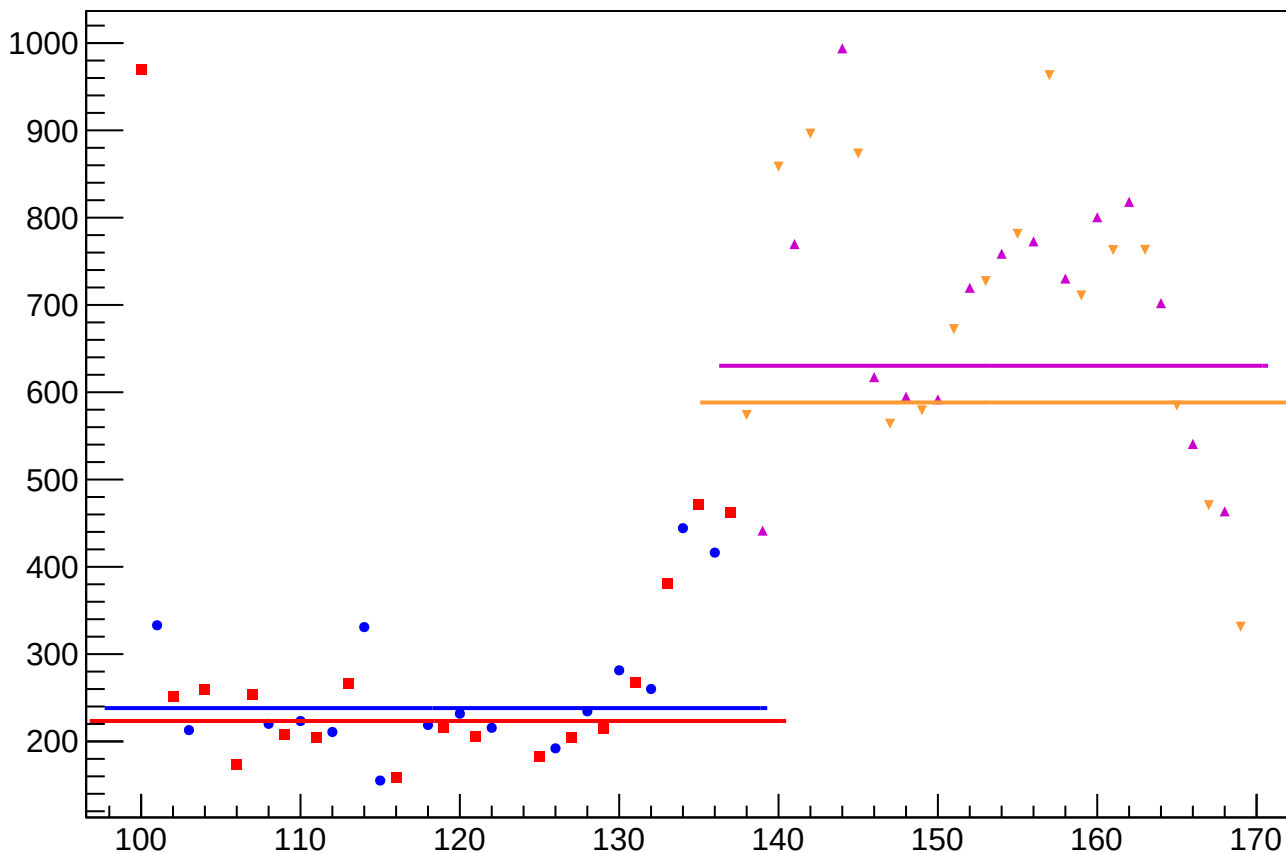
Right: 0.028 ± 0.065 χ^2/NDF : 39.5/33

In: -0.071 ± 0.084 χ^2/NDF : 36.3/30

Out: 0.071 ± 0.080 χ^2/NDF : 48.3/33

All: 0.003 ± 0.058 χ^2/NDF : 86.1/64

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 238.165+/-0.066 χ^2/NDF : 807170.1/15

Left Out: 588.284+/-0.124 χ^2/NDF :2140839.6/15

Right Out: 223.390+/-0.064 χ^2/NDF : 862366.3/17

Left In: 630.337+/-0.132 χ^2/NDF :1168404.0/14

Left: 608.033+/-0.090 χ^2/NDF : 3363438.2/30

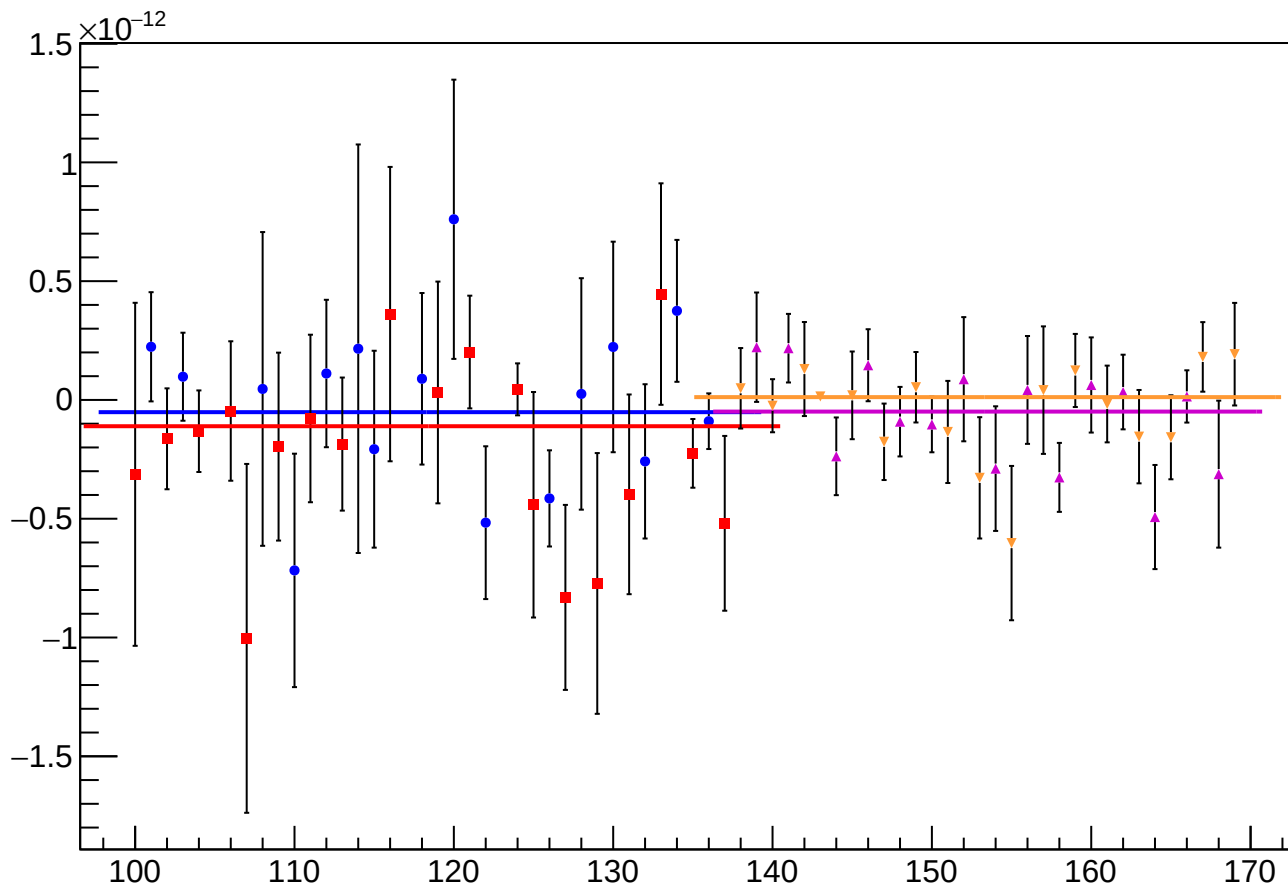
Right: 230.475+/-0.046 χ^2/NDF : 1695367.2/33

In: 317.645+/-0.059 χ^2/NDF :9060987.1/30

Out: 299.716+/-0.057 χ^2/NDF :9874688.0/33

All: 308.277+/-0.041 χ^2/NDF : 18983565.1/64

asym_atl2_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.8/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 12.0/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 15.3/18

Left In: -0.000 ± 0.000 χ^2/NDF : 18.7/14

Left: 0.000 ± 0.000 χ^2/NDF : 32.6/31

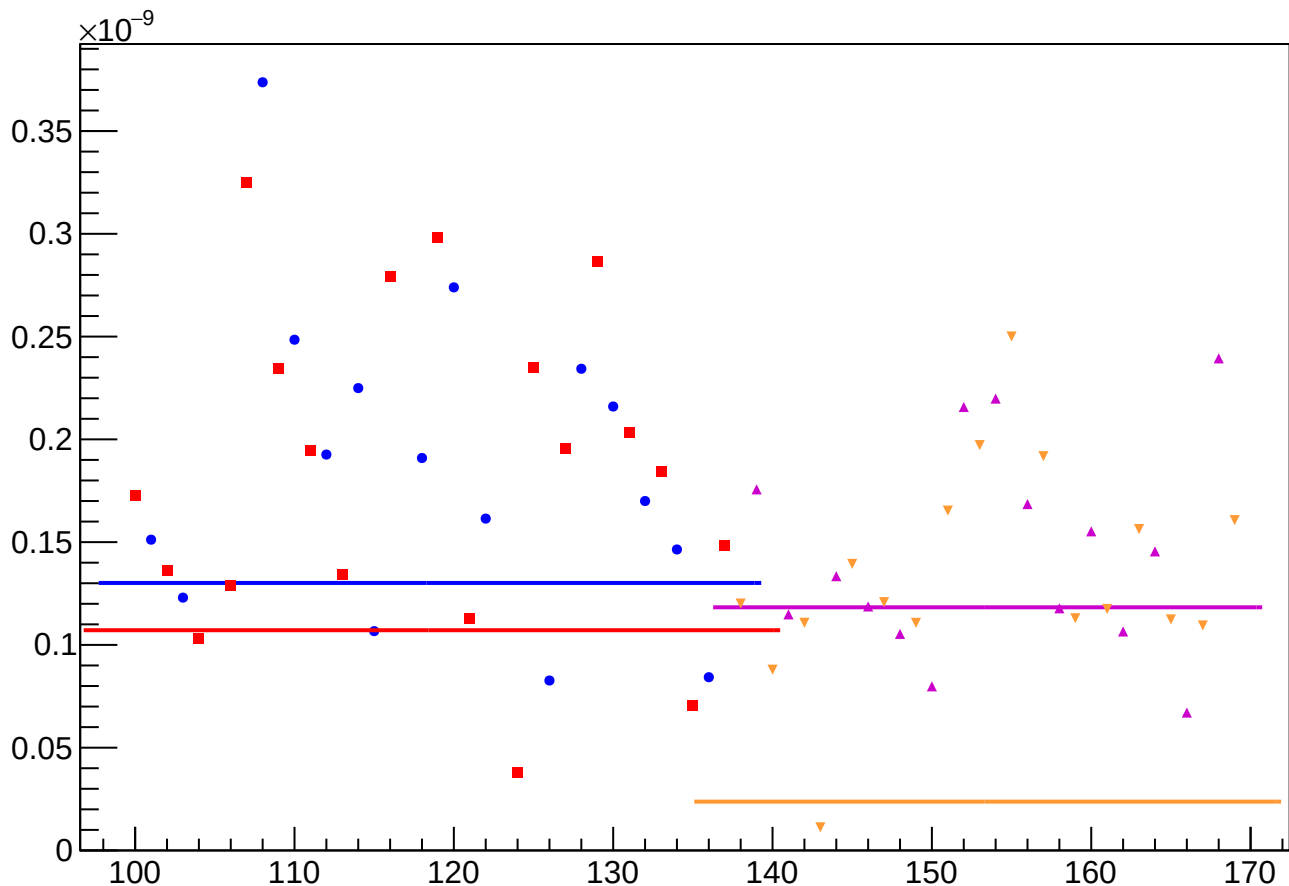
Right: -0.000 ± 0.000 χ^2/NDF : 30.6/34

In: -0.000 ± 0.000 χ^2/NDF : 33.5/30

Out: 0.000 ± 0.000 χ^2/NDF : 31.4/35

All: -0.000 ± 0.000 χ^2/NDF : 66.9/66

asym_atl2_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1334266.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :13006680.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2656168.1/18

Left In: 0.000+/-0.000 χ^2/NDF :1899009.6/14

Left: 0.000+/-0.000 χ^2/NDF : 23608956.8/31

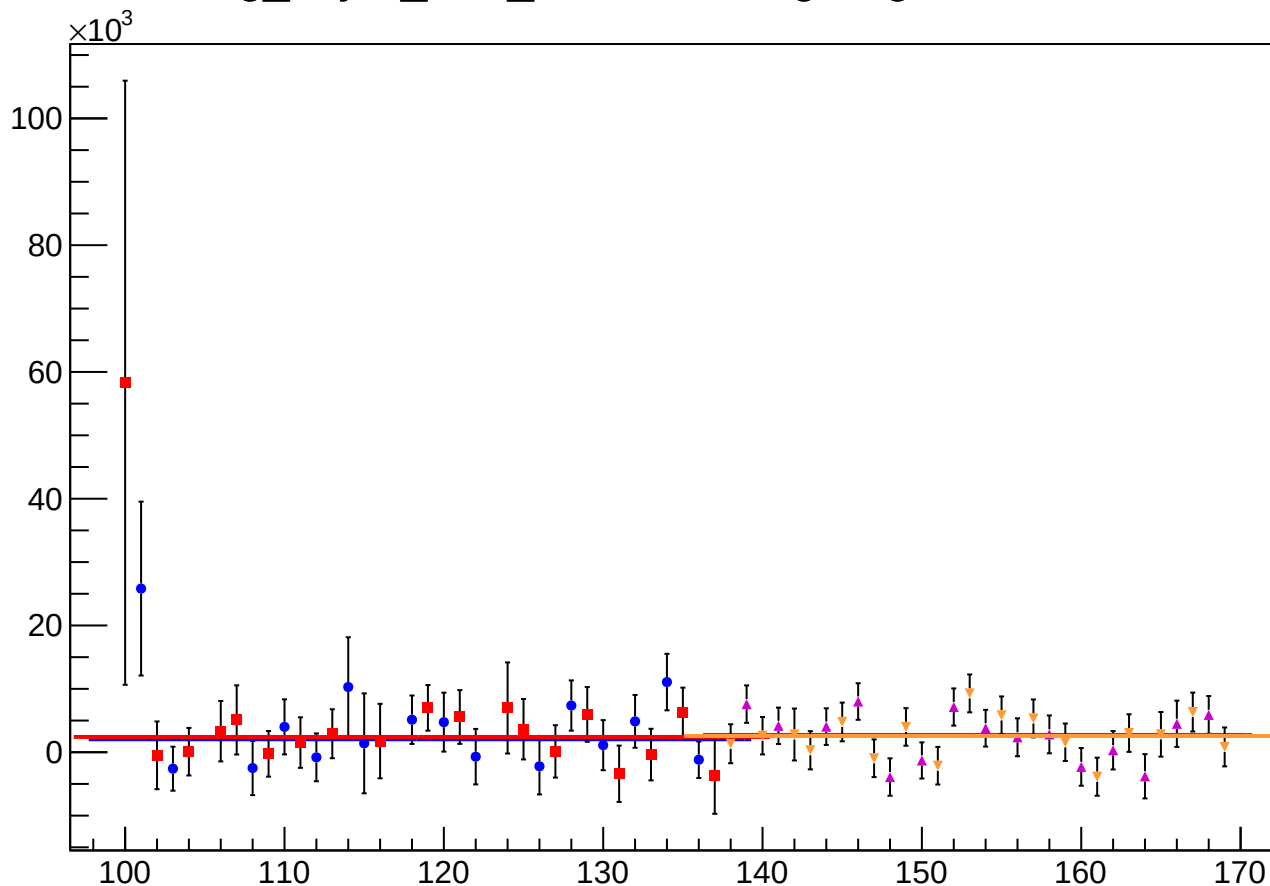
Right: 0.000+/-0.000 χ^2/NDF : 4122173.2/34

In: 0.000+/-0.000 χ^2/NDF :3277203.6/30

Out: 0.000+/-0.000 χ^2/NDF :19426728.8/35

All: 0.000+/-0.000 χ^2/NDF : 34196911.0/66

reg_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2049.493+/-1070.395 χ^2/NDF : 17.8/15

Left Out: 2565.360+/-744.049 χ^2/NDF :19.0/16

Right Out: 2411.858+/-1035.471 χ^2/NDF : 10.8/18

Left In: 2729.147+/-775.176 χ^2/NDF :24.3/14

Left: 2643.899+/-536.789 χ^2/NDF : 43.4/31

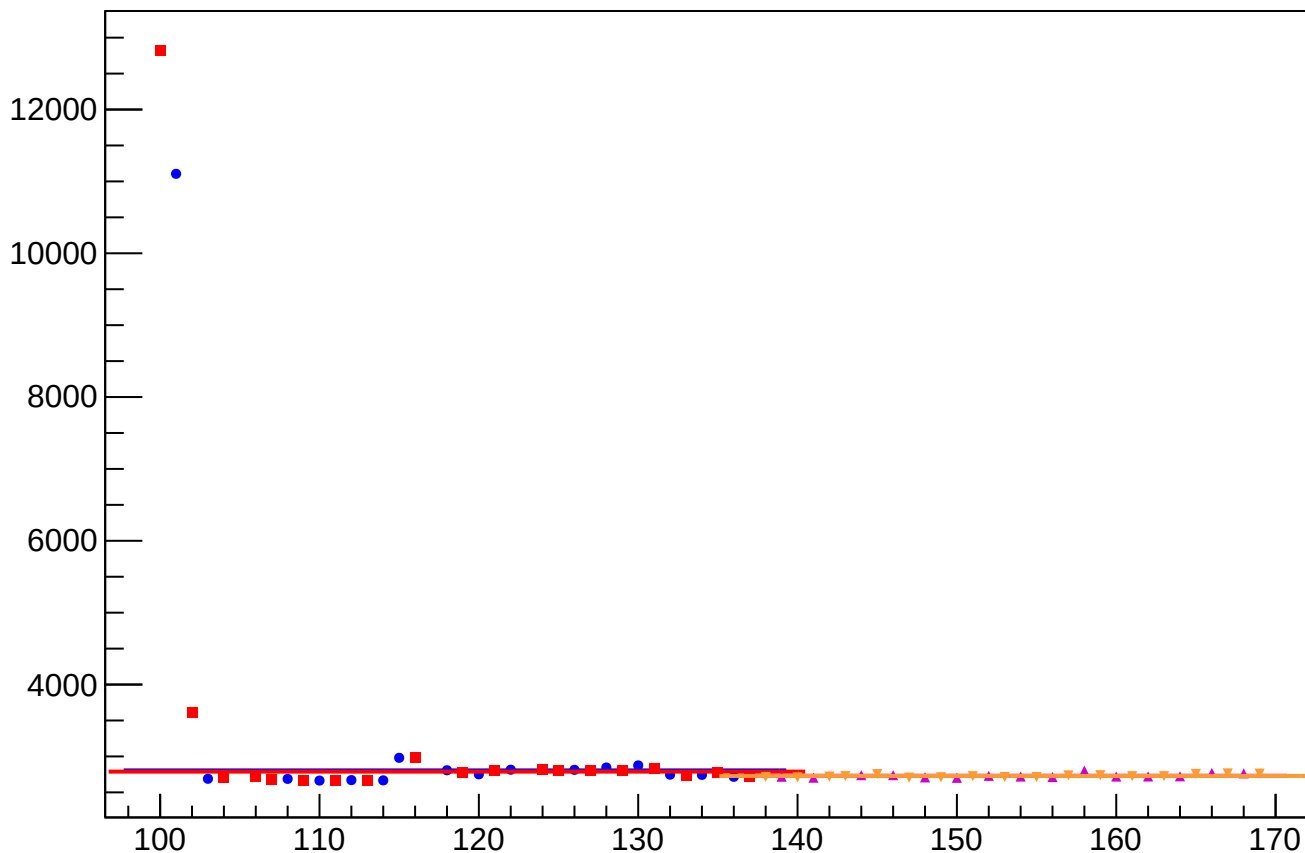
Right: 2236.684+/-744.229 χ^2/NDF : 28.6/34

In: 2495.326+/-627.830 χ^2/NDF :42.4/30

Out: 2513.091+/-604.233 χ^2/NDF :29.8/35

All: 2504.548+/-435.361 χ^2/NDF : 72.2/66

reg_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.446 $\pm$ 0.757 χ^2 /NDF: 746240.6/15

Left Out: 2728.484 $\pm$ 0.526 χ^2 /NDF:1249.0/16

Right Out: 2788.820 $\pm$ 0.732 χ^2 /NDF: 146998.3/18

Left In: 2730.996 $\pm$ 0.548 χ^2 /NDF:2394.4/14

Left: 2729.689 $\pm$ 0.380 χ^2 /NDF: 3654.4/31

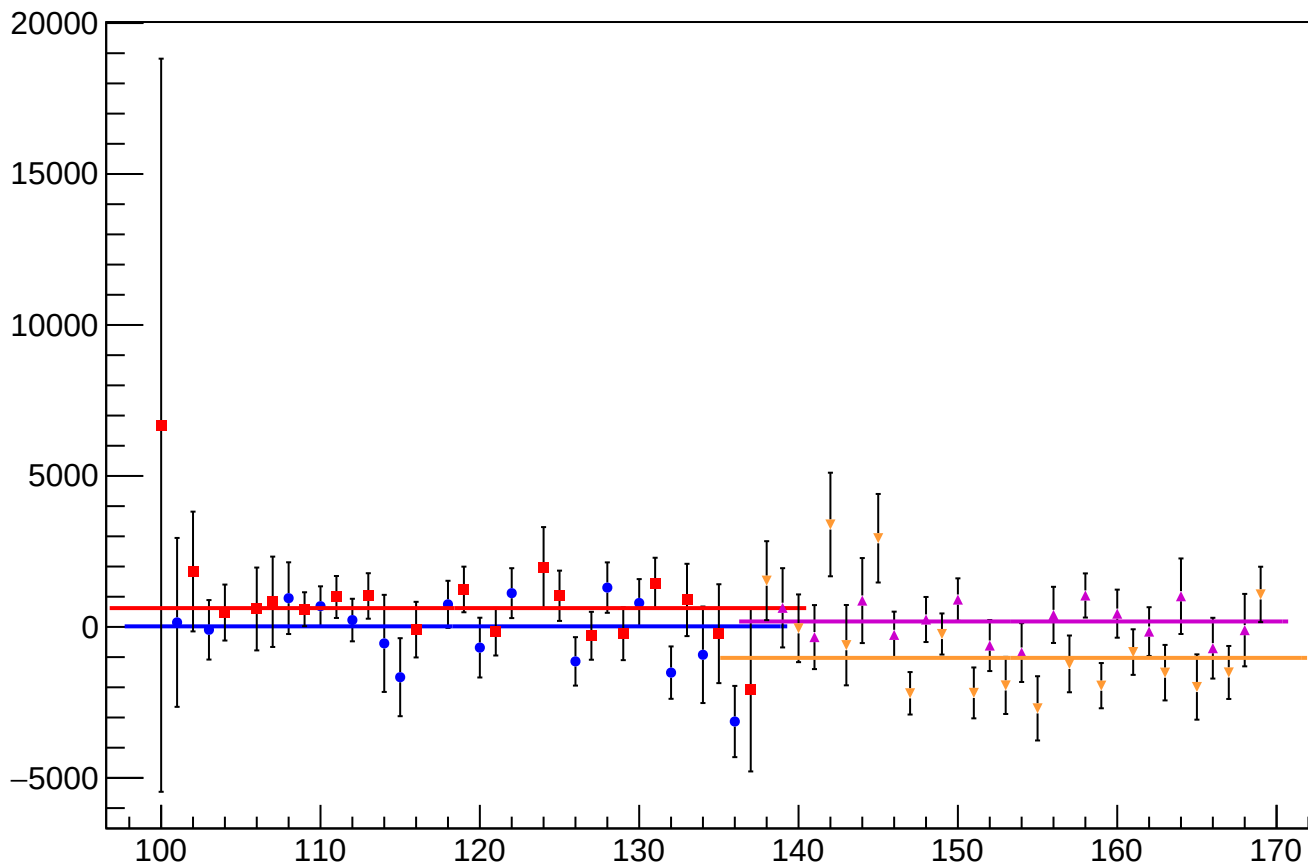
Right: 2796.857 $\pm$ 0.526 χ^2 /NDF: 893488.2/34

In: 2756.609 $\pm$ 0.444 χ^2 /NDF:754981.8/30

Out: 2749.029 $\pm$ 0.427 χ^2 /NDF:152725.7/35

All: 2752.674 $\pm$ 0.308 χ^2 /NDF: 907858.8/66

asym_atr1_reg_correction_mean vs Slug, Sign Corrected



Right In: 18.981 ± 233.483 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -1025.404 ± 226.256 $\chi^2/\text{NDF}: 36.3/16$

Right Out: 623.107 ± 215.948 $\chi^2/\text{NDF}: 9.3/18$

Left In: 180.699 ± 233.133 $\chi^2/\text{NDF}: 7.0/14$

Left: -440.404 ± 162.364 $\chi^2/\text{NDF}: 57.1/31$

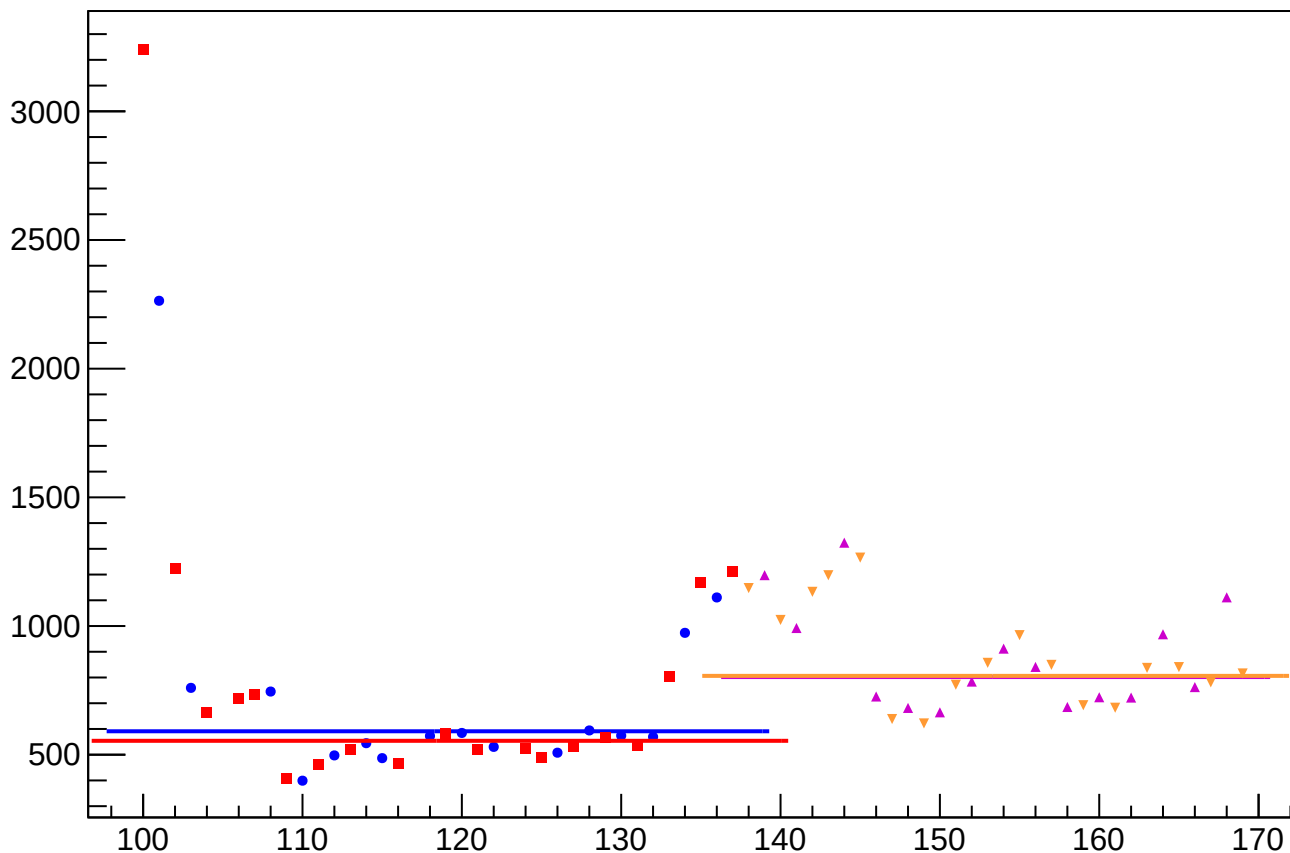
Right: 344.579 ± 158.535 $\chi^2/\text{NDF}: 35.6/34$

In: 99.961 ± 164.973 $\chi^2/\text{NDF}: 30.0/30$

Out: -162.743 ± 156.215 $\chi^2/\text{NDF}: 73.4/35$

All: -38.549 ± 113.431 $\chi^2/\text{NDF}: 104.7/66$

asym_atr1_reg_correction_rms vs Slug, Sign Corrected



Right In: 591.041+/-0.165 χ^2/NDF : 1567663.5/15

Left Out: 806.333+/-0.160 χ^2/NDF : 1077571.7/16

Right Out: 553.982+/-0.153 χ^2/NDF : 1116915.2/18

Left In: 801.724+/-0.165 χ^2/NDF : 960102.5/14

Left: 804.097+/-0.115 χ^2/NDF : 2038076.6/31

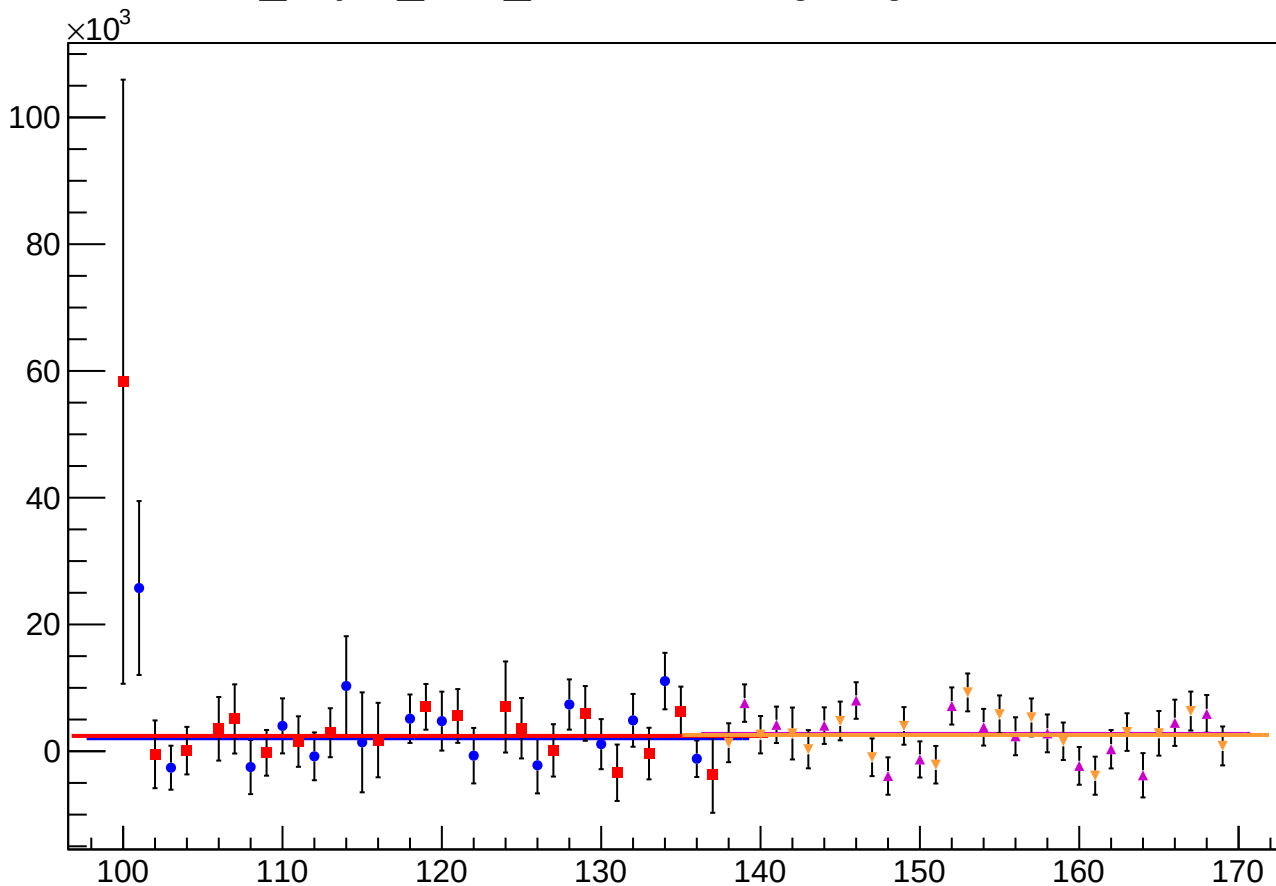
Right: 571.068+/-0.112 χ^2/NDF : 2711735.0/34

In: 696.541+/-0.117 χ^2/NDF : 3343224.0/30

Out: 674.278+/-0.110 χ^2/NDF : 3496419.9/35

All: 684.803+/-0.080 χ^2/NDF : 6858847.0/66

cor_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2048.688 $\pm$ 1070.395 χ^2/NDF : 17.8/15

Left Out: 2565.371 $\pm$ 744.049 χ^2/NDF :19.0/16

Right Out: 2417.909 $\pm$ 1037.856 χ^2/NDF : 10.8/18

Left In: 2729.213 $\pm$ 775.176 χ^2/NDF :24.3/14

Left: 2643.936 $\pm$ 536.789 χ^2/NDF : 43.4/31

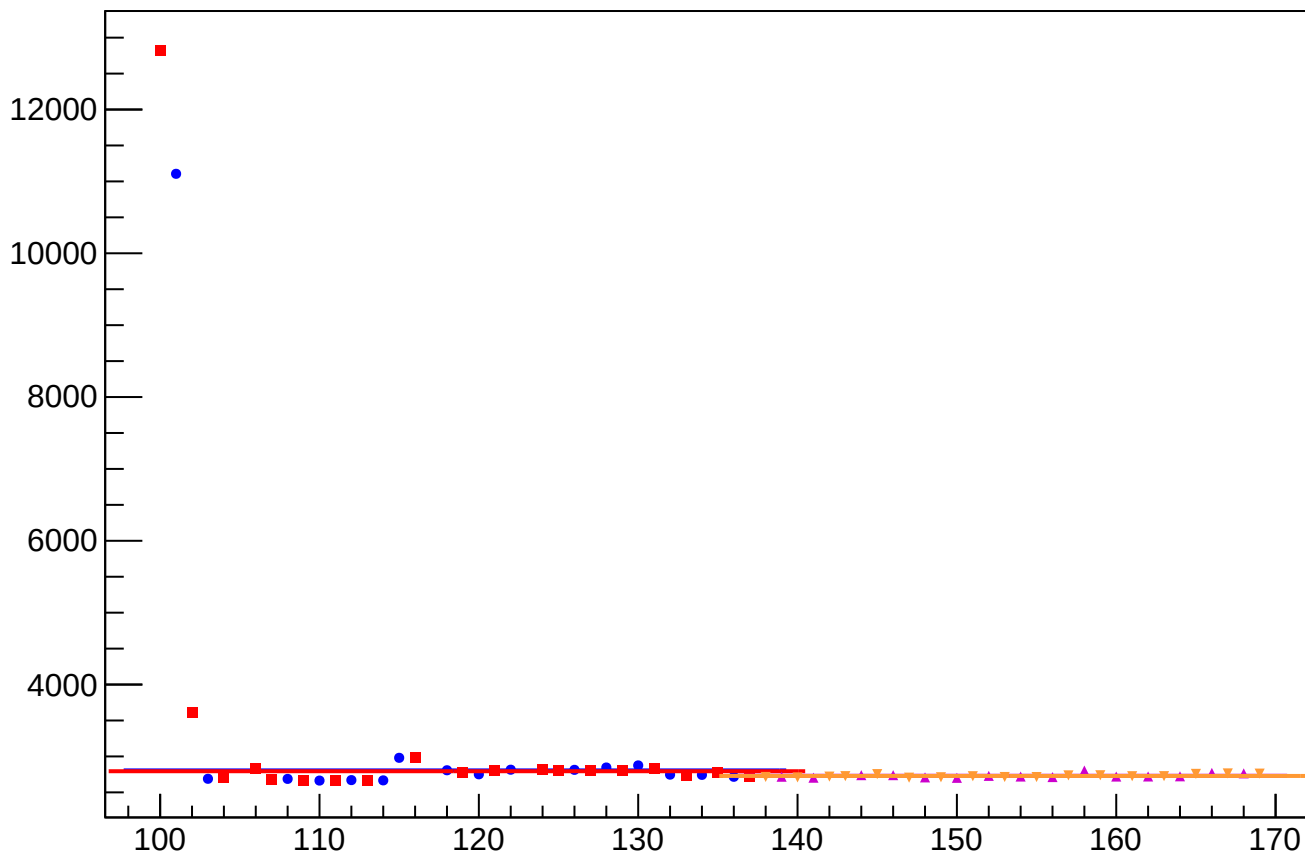
Right: 2238.996 $\pm$ 745.113 χ^2/NDF : 28.6/34

In: 2495.092 $\pm$ 627.830 χ^2/NDF :42.4/30

Out: 2515.311 $\pm$ 604.706 χ^2/NDF :29.8/35

All: 2505.580 $\pm$ 435.537 χ^2/NDF : 72.2/66

cor_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.446 $\pm$ 0.757 χ^2 /NDF: 746239.8/15

Left Out: 2728.484 $\pm$ 0.526 χ^2 /NDF:1249.0/16

Right Out: 2794.157 $\pm$ 0.734 χ^2 /NDF: 146744.3/18

Left In: 2730.996 $\pm$ 0.548 χ^2 /NDF:2394.4/14

Left: 2729.689 $\pm$ 0.380 χ^2 /NDF: 3654.4/31

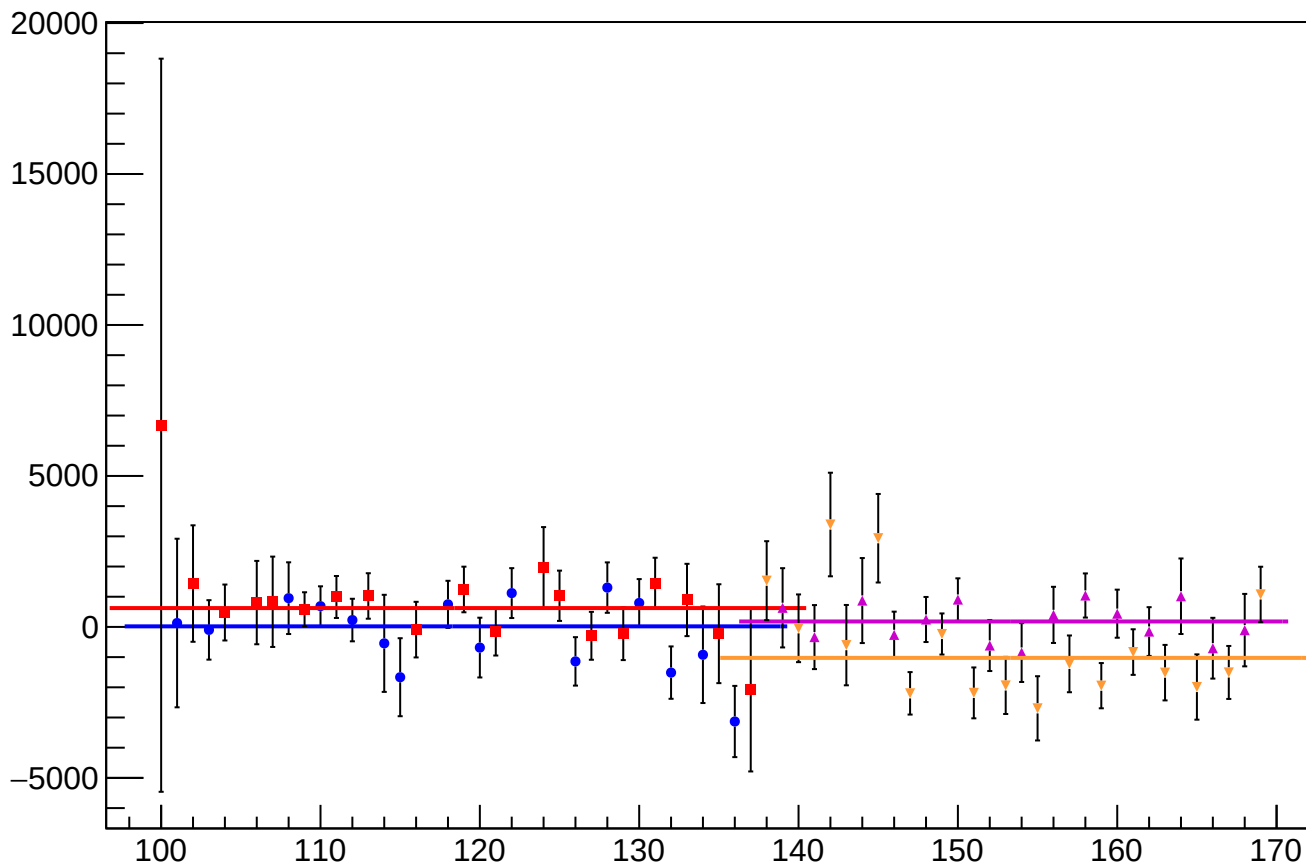
Right: 2799.627 $\pm$ 0.527 χ^2 /NDF: 893098.7/34

In: 2756.609 $\pm$ 0.444 χ^2 /NDF:754980.9/30

Out: 2750.779 $\pm$ 0.428 χ^2 /NDF:153282.9/35

All: 2753.584 $\pm$ 0.308 χ^2 /NDF: 908353.2/66

asym_atr1_cor_correction_mean vs Slug, Sign Corrected



Right In: 18.940 ± 233.471 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -1025.278 ± 226.254 $\chi^2/\text{NDF}: 36.3/16$

Right Out: 624.217 ± 215.902 $\chi^2/\text{NDF}: 9.1/18$

Left In: 180.765 ± 233.132 $\chi^2/\text{NDF}: 7.0/14$

Left: -440.309 ± 162.363 $\chi^2/\text{NDF}: 57.1/31$

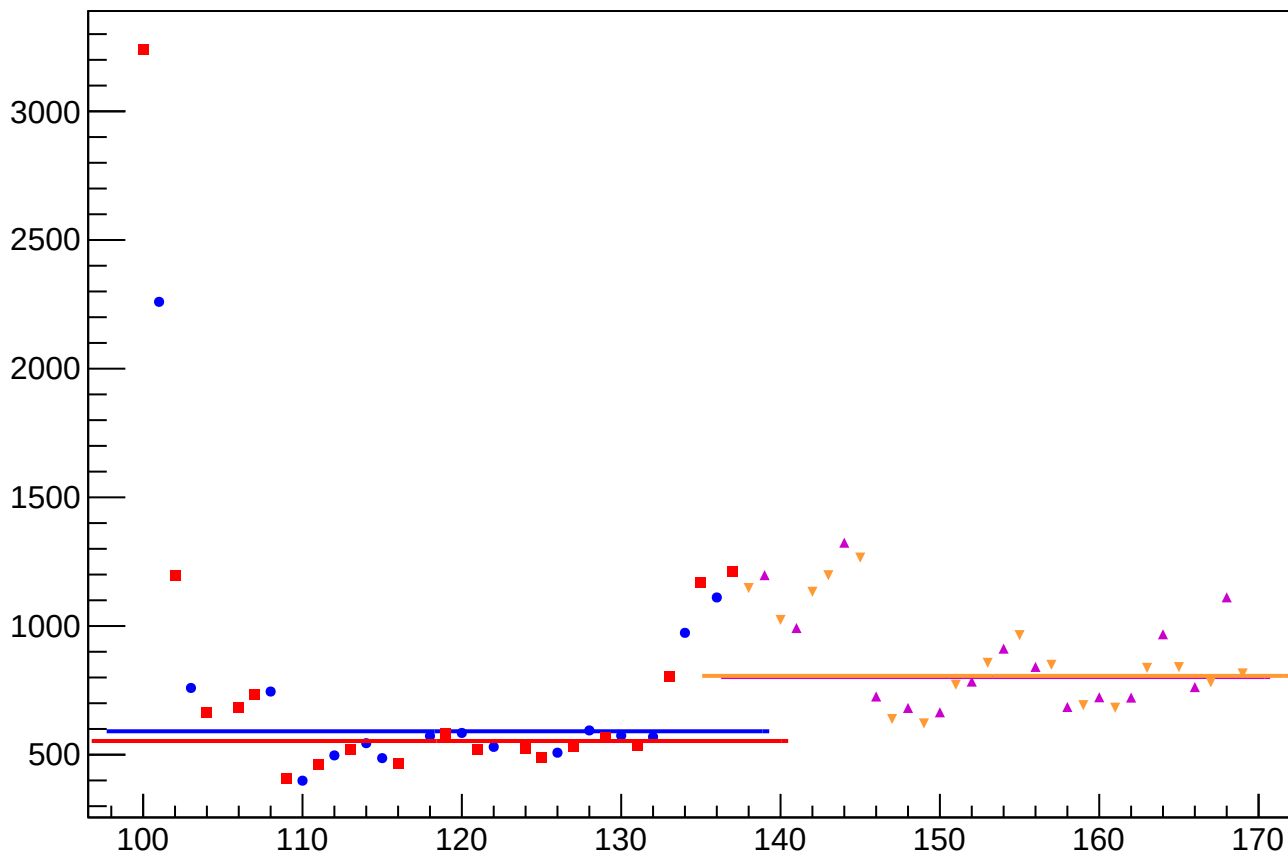
Right: 345.208 ± 158.513 $\chi^2/\text{NDF}: 35.5/34$

In: 99.970 ± 164.969 $\chi^2/\text{NDF}: 30.0/30$

Out: -161.931 ± 156.197 $\chi^2/\text{NDF}: 73.2/35$

All: -38.128 ± 113.422 $\chi^2/\text{NDF}: 104.6/66$

asym_atr1_cor_correction_rms vs Slug, Sign Corrected



Right In: 591.039+/-0.165 χ^2/NDF : 1566635.0/15

Left Out: 806.325+/-0.160 χ^2/NDF : 1077595.7/16

Right Out: 553.233+/-0.153 χ^2/NDF : 1101651.0/18

Left In: 801.720+/-0.165 χ^2/NDF : 960089.7/14

Left: 804.091+/-0.115 χ^2/NDF : 2038087.3/31

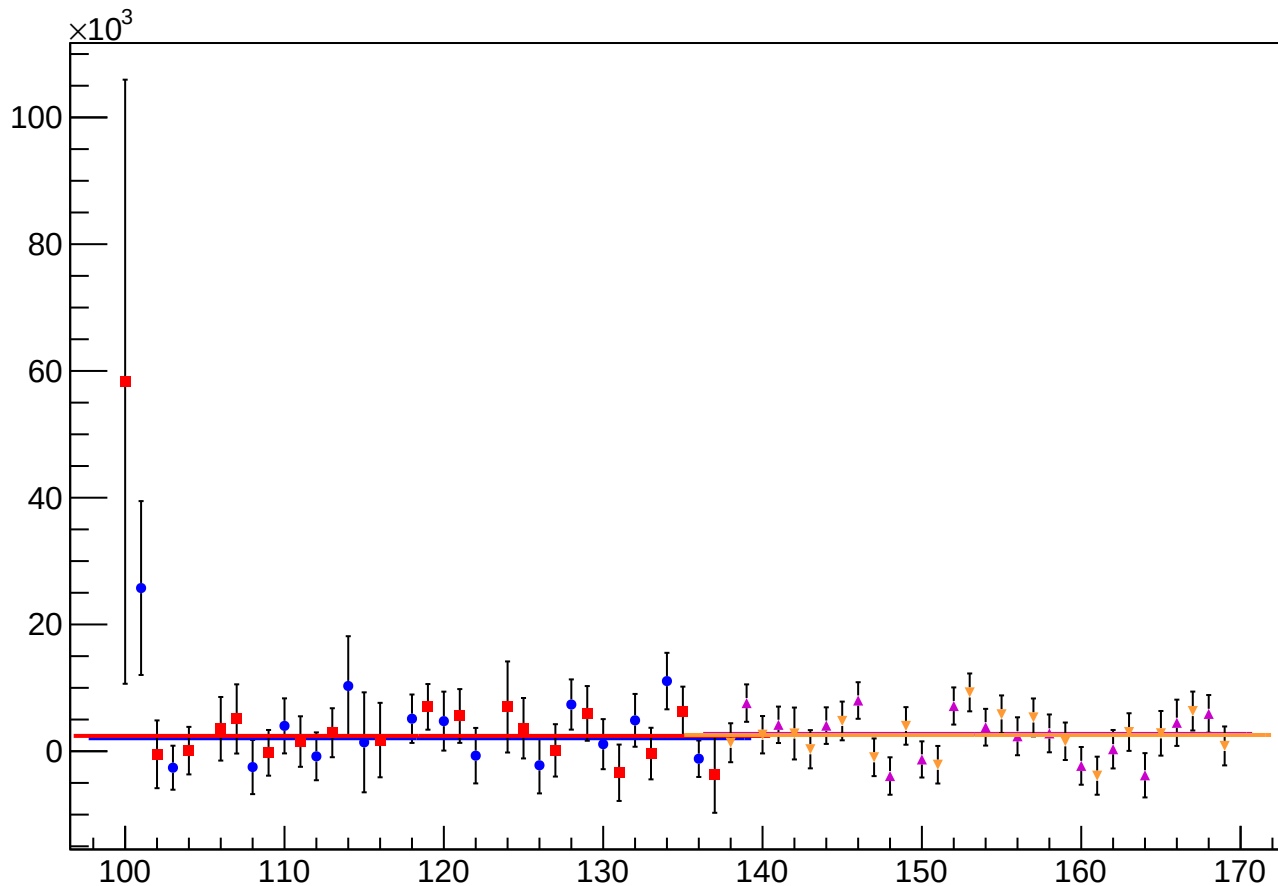
Right: 570.660+/-0.112 χ^2/NDF : 2696555.4/34

In: 696.533+/-0.117 χ^2/NDF : 3342206.4/30

Out: 673.856+/-0.110 χ^2/NDF : 3489117.7/35

All: 684.576+/-0.080 χ^2/NDF : 6851250.9/66

eigen_cor_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2048.688 $\pm$ 1070.395 χ^2 /NDF: 17.8/15

Left Out: 2565.371 $\pm$ 744.049 χ^2 /NDF:19.0/16

Right Out: 2417.909 $\pm$ 1037.856 χ^2 /NDF: 10.8/18

Left In: 2729.213 $\pm$ 775.176 χ^2 /NDF:24.3/14

Left: 2643.936 $\pm$ 536.789 χ^2 /NDF: 43.4/31

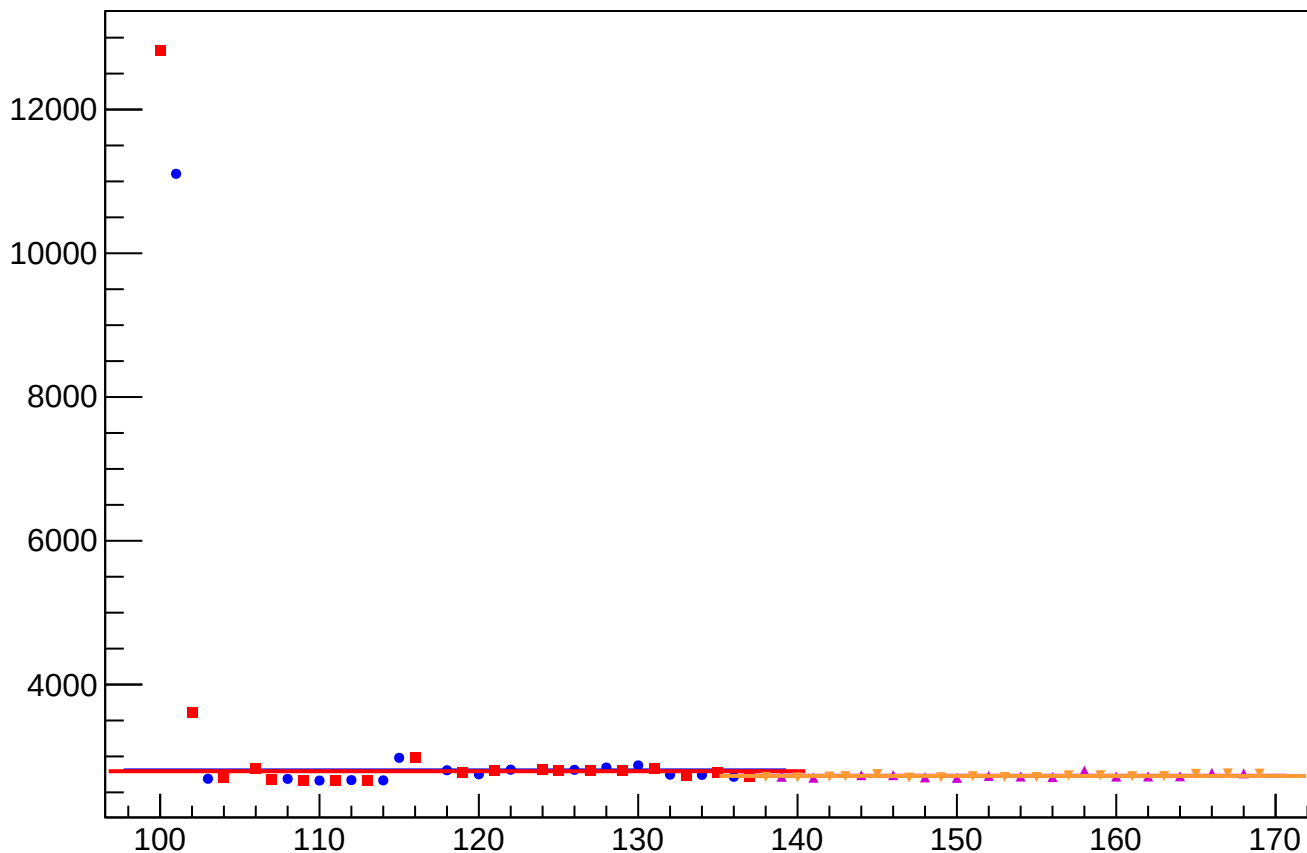
Right: 2238.996 $\pm$ 745.113 χ^2 /NDF: 28.6/34

In: 2495.092 $\pm$ 627.830 χ^2 /NDF:42.4/30

Out: 2515.311 $\pm$ 604.706 χ^2 /NDF:29.8/35

All: 2505.580 $\pm$ 435.537 χ^2 /NDF: 72.2/66

eigen_cor_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2805.446+/-0.757 χ^2/NDF : 746239.8/15

Left Out: 2728.484+/-0.526 χ^2/NDF :1249.0/16

Right Out: 2794.157+/-0.734 χ^2/NDF : 146744.3/18

Left In: 2730.996+/-0.548 χ^2/NDF :2394.4/14

Left: 2729.689+/-0.380 χ^2/NDF : 3654.4/31

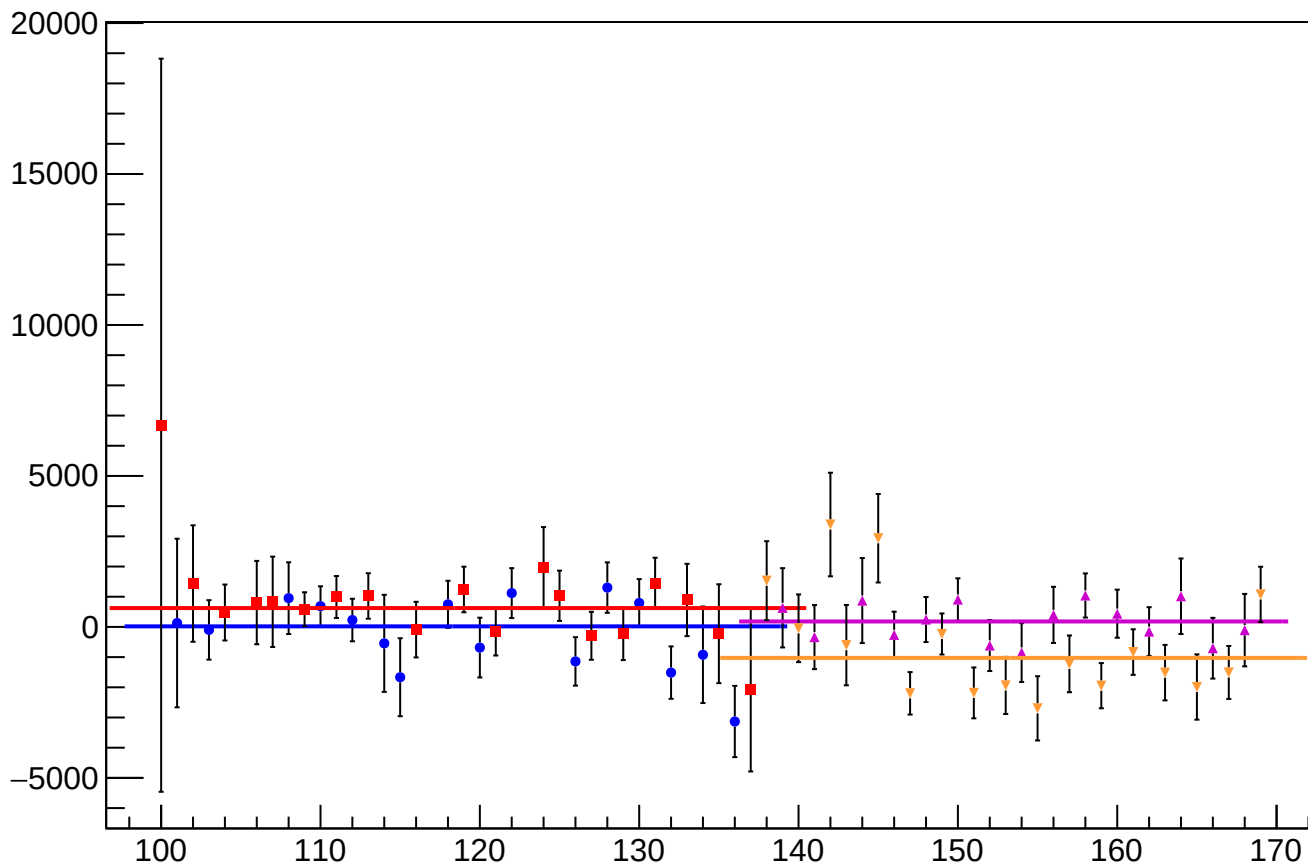
Right: 2799.627+/-0.527 χ^2/NDF : 893098.7/34

In: 2756.609+/-0.444 χ^2/NDF :754980.9/30

Out: 2750.779+/-0.428 χ^2/NDF :153282.9/35

All: 2753.584+/-0.308 χ^2/NDF : 908353.2/66

asym_atr1_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 18.940 ± 233.471 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -1025.278 ± 226.254 $\chi^2/\text{NDF}: 36.3/16$

Right Out: 624.217 ± 215.902 $\chi^2/\text{NDF}: 9.1/18$

Left In: 180.765 ± 233.132 $\chi^2/\text{NDF}: 7.0/14$

Left: -440.309 ± 162.363 $\chi^2/\text{NDF}: 57.1/31$

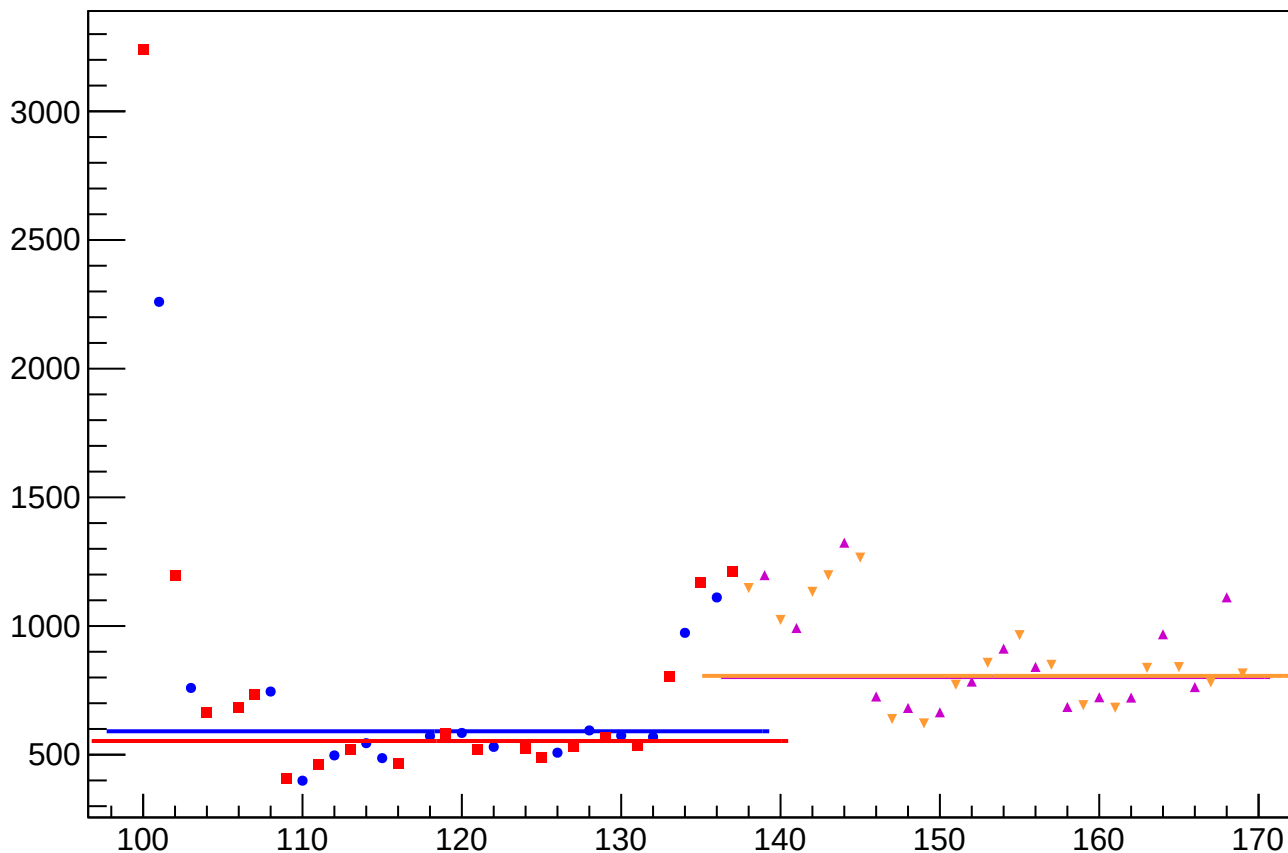
Right: 345.208 ± 158.513 $\chi^2/\text{NDF}: 35.5/34$

In: 99.970 ± 164.969 $\chi^2/\text{NDF}: 30.0/30$

Out: -161.931 ± 156.197 $\chi^2/\text{NDF}: 73.2/35$

All: -38.128 ± 113.422 $\chi^2/\text{NDF}: 104.6/66$

asym_atr1_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 591.039+/-0.165 χ^2/NDF : 1566635.0/15

Left Out: 806.325+/-0.160 χ^2/NDF : 1077595.7/16

Right Out: 553.233+/-0.153 χ^2/NDF : 1101651.0/18

Left In: 801.720+/-0.165 χ^2/NDF : 960089.7/14

Left: 804.091+/-0.115 χ^2/NDF : 2038087.3/31

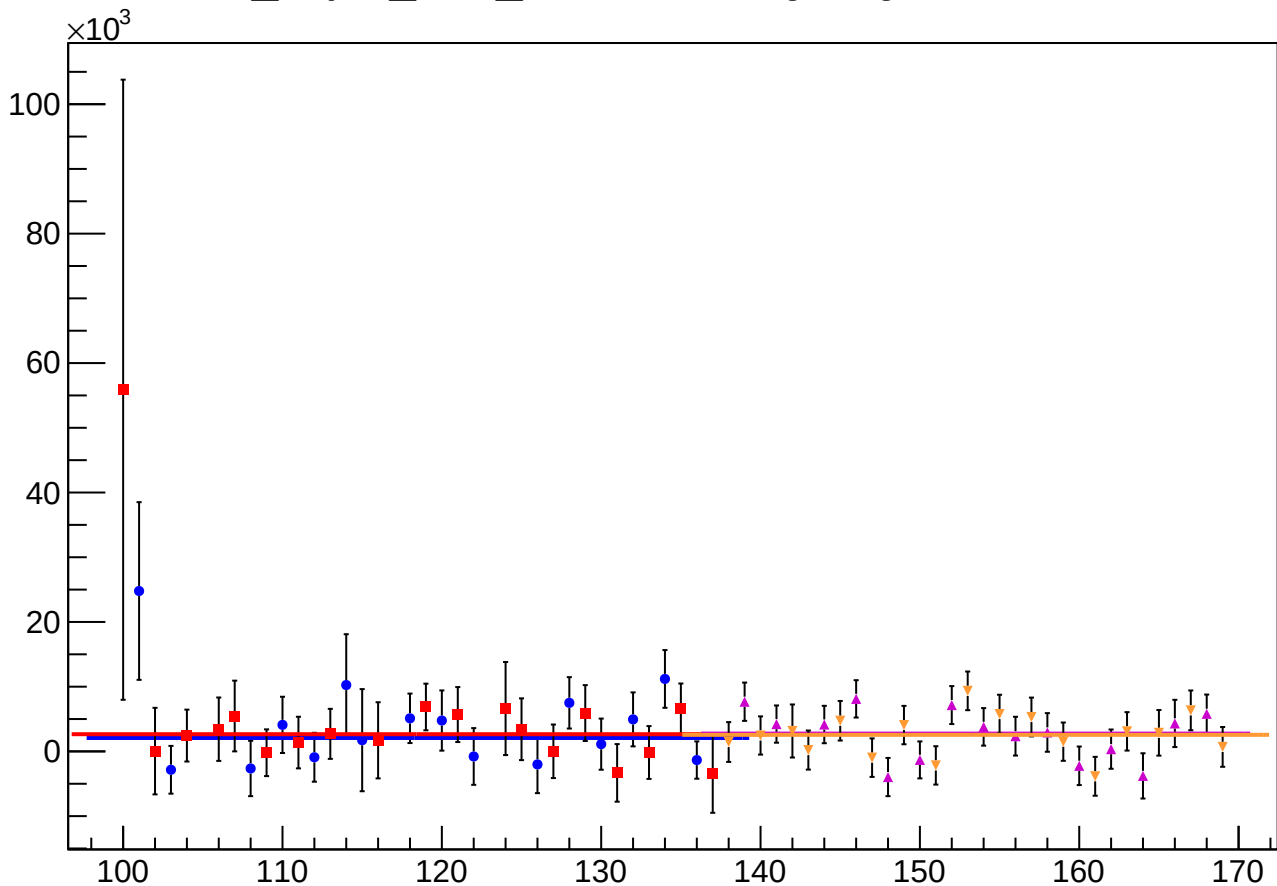
Right: 570.660+/-0.112 χ^2/NDF : 2696555.4/34

In: 696.533+/-0.117 χ^2/NDF : 3342206.4/30

Out: 673.856+/-0.110 χ^2/NDF : 3489117.7/35

All: 684.576+/-0.080 χ^2/NDF : 6851250.9/66

dit_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2074.766 $\pm$ 1077.182 χ^2/NDF : 17.9/15

Left Out: 2560.905 $\pm$ 744.574 χ^2/NDF : 19.2/16

Right Out: 2657.301 $\pm$ 1049.868 χ^2/NDF : 9.9/18

Left In: 2752.047 $\pm$ 775.648 χ^2/NDF : 24.5/14

Left: 2652.571 $\pm$ 537.143 χ^2/NDF : 43.8/31

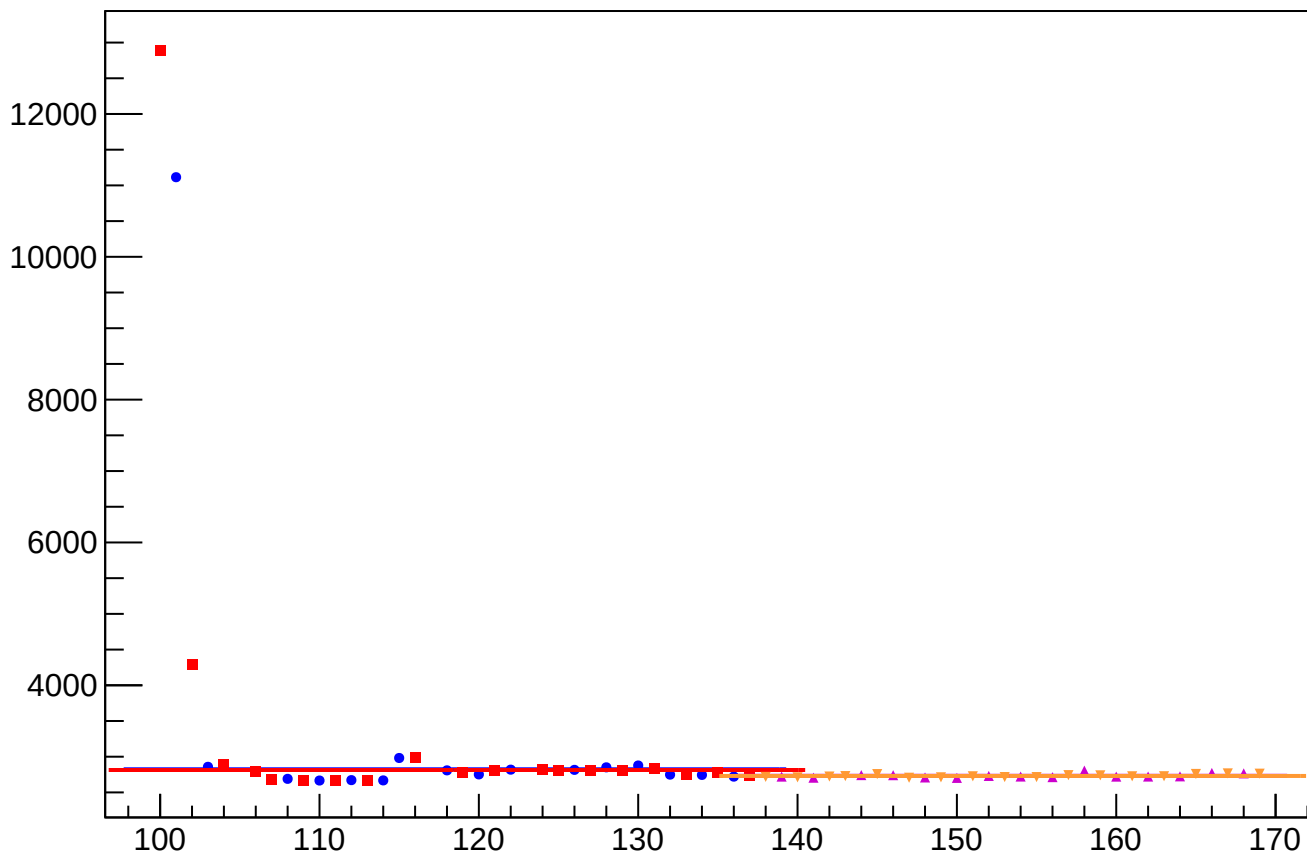
Right: 2373.513 $\pm$ 751.840 χ^2/NDF : 28.0/34

In: 2520.785 $\pm$ 629.444 χ^2/NDF : 42.6/30

Out: 2593.164 $\pm$ 607.340 χ^2/NDF : 29.2/35

All: 2558.268 $\pm$ 437.060 χ^2/NDF : 71.8/66

dit_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2823.448+/-0.762 χ^2/NDF : 743916.1/15

Left Out: 2730.401+/-0.526 χ^2/NDF :1280.9/16

Right Out: 2813.821+/-0.742 χ^2/NDF : 200511.9/18

Left In: 2732.652+/-0.548 χ^2/NDF :2416.2/14

Left: 2731.480+/-0.380 χ^2/NDF : 3705.9/31

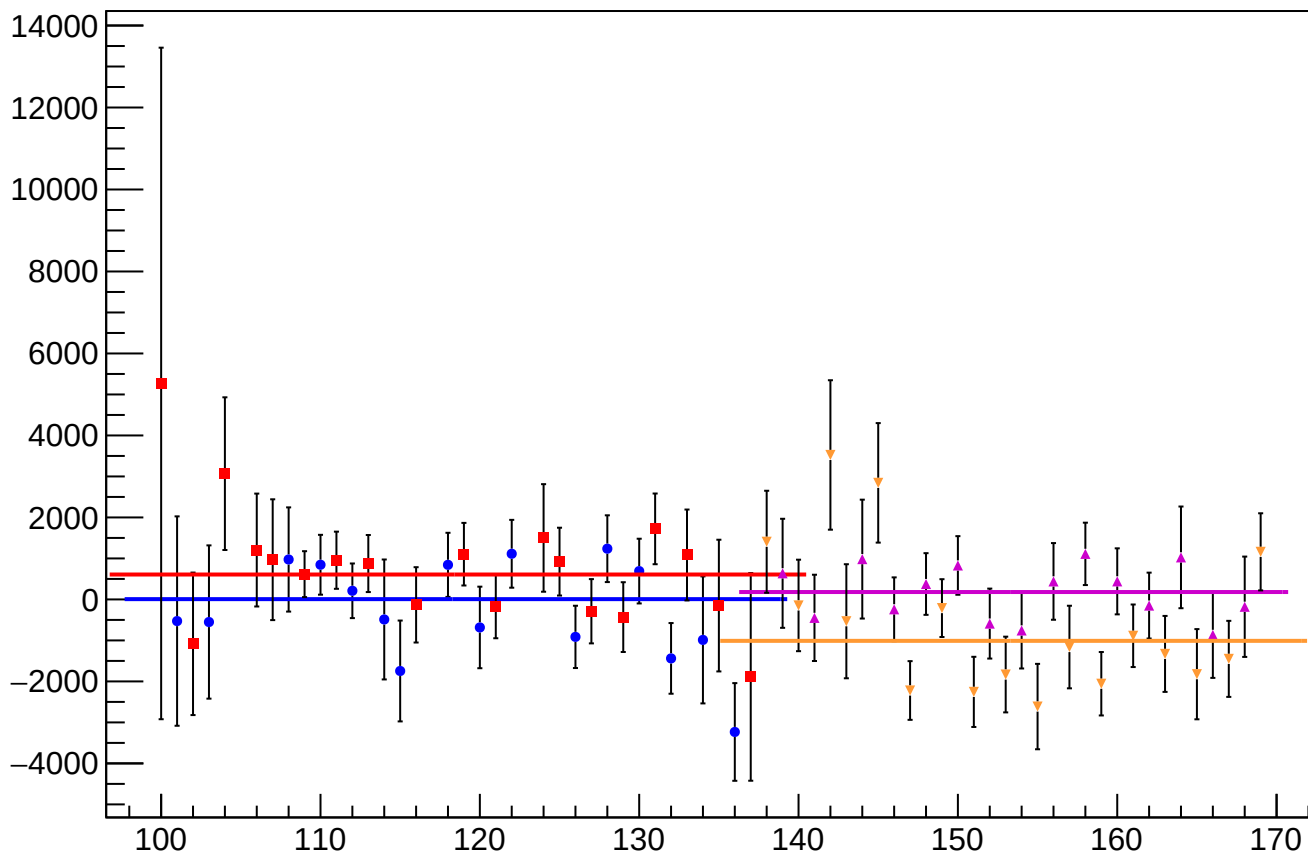
Right: 2818.511+/-0.532 χ^2/NDF : 944509.9/34

In: 2763.655+/-0.445 χ^2/NDF :755690.1/30

Out: 2758.318+/-0.429 χ^2/NDF :210194.2/35

All: 2760.891+/-0.309 χ^2/NDF : 965958.8/66

asym_atr1_dit_correction_mean vs Slug, Sign Corrected



Right In: 7.048 ± 237.455 χ^2/NDF : 22.8/15

Left Out: -1010.506 ± 230.542 χ^2/NDF : 35.2/16

Right Out: 607.647 ± 217.093 χ^2/NDF : 12.2/18

Left In: 180.366 ± 235.445 χ^2/NDF : 7.2/14

Left: -427.599 ± 164.724 χ^2/NDF : 55.4/31

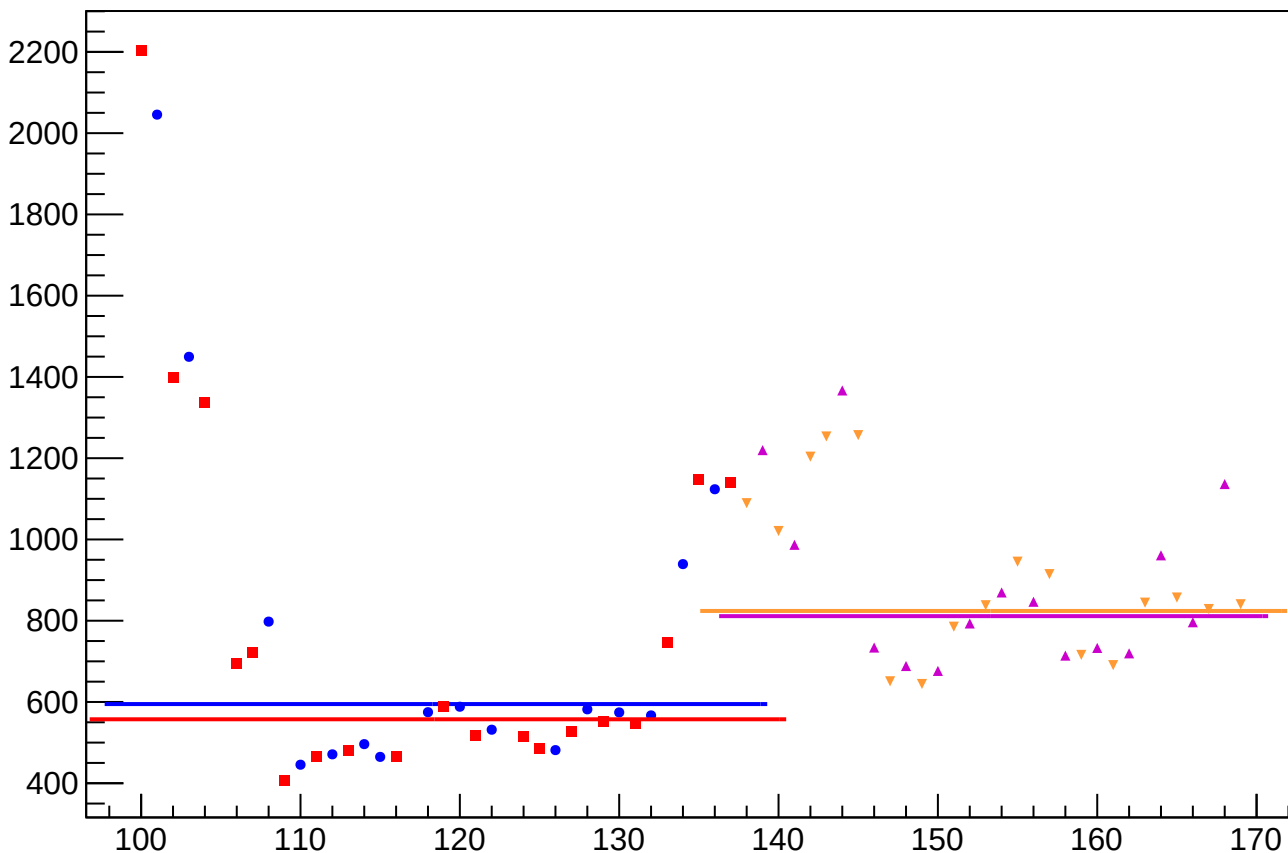
Right: 334.198 ± 160.224 χ^2/NDF : 38.5/34

In: 94.444 ± 167.191 χ^2/NDF : 30.3/30

Out: -152.858 ± 158.049 χ^2/NDF : 73.5/35

All: -36.153 ± 114.853 χ^2/NDF : 104.9/66

asym_atr1_dit_correction_rms vs Slug, Sign Corrected



Right In: 594.858 $\pm$ 0.168 χ^2 /NDF: 1852655.3/15

Left Out: 824.030 $\pm$ 0.163 χ^2 /NDF: 1005050.6/16

Right Out: 557.397 $\pm$ 0.154 χ^2 /NDF: 1631309.6/18

Left In: 811.256 $\pm$ 0.166 χ^2 /NDF: 941843.1/14

Left: 817.778 $\pm$ 0.116 χ^2 /NDF: 1949899.0/31

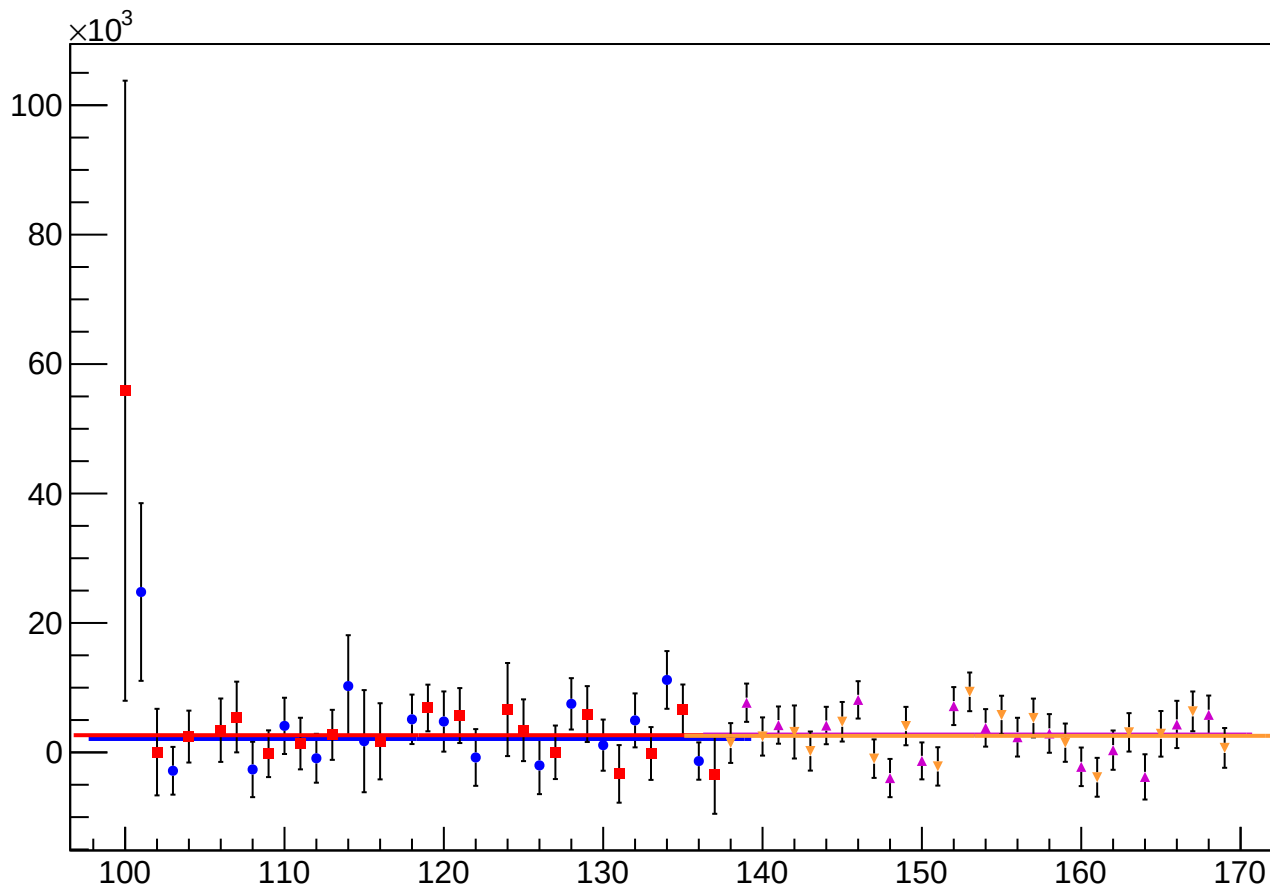
Right: 574.453 $\pm$ 0.113 χ^2 /NDF: 3511078.0/34

In: 703.977 $\pm$ 0.118 χ^2 /NDF: 3632071.1/30

Out: 682.710 $\pm$ 0.112 χ^2 /NDF: 4054263.0/35

All: 692.746 $\pm$ 0.081 χ^2 /NDF: 7703422.9/66

eigen_dit_asym_atr1_mean vs Slug, Sign Corrected



Right In: 2074.766+/-1077.182 χ^2 /NDF: 17.9/15

Left Out: 2560.906+/-744.574 χ^2 /NDF:19.2/16

Right Out: 2657.300+/-1049.868 χ^2 /NDF: 9.9/18

Left In: 2752.047+/-775.648 χ^2 /NDF:24.5/14

Left: 2652.571+/-537.143 χ^2 /NDF: 43.8/31

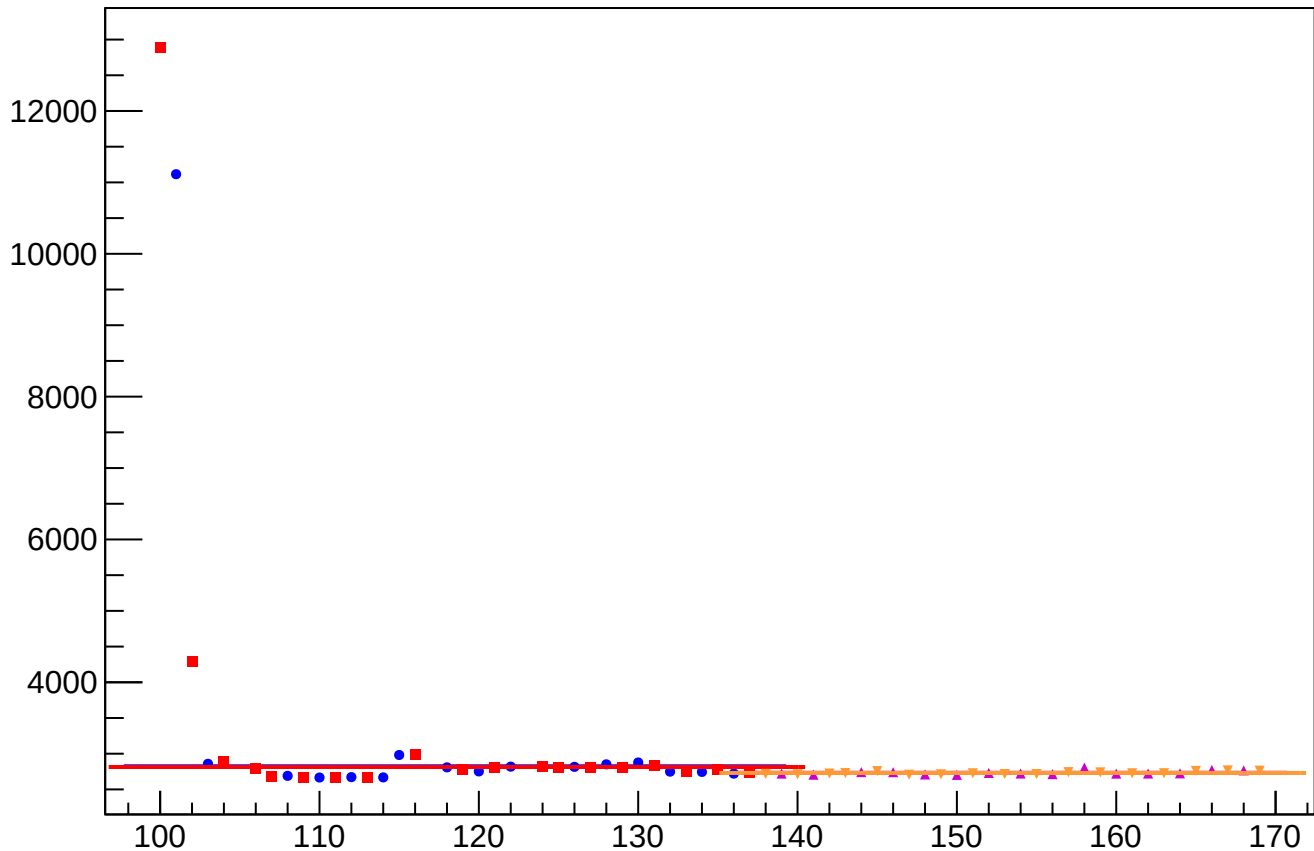
Right: 2373.512+/-751.840 χ^2 /NDF: 28.0/34

In: 2520.785+/-629.444 χ^2 /NDF:42.6/30

Out: 2593.164+/-607.340 χ^2 /NDF:29.2/35

All: 2558.268+/-437.060 χ^2 /NDF: 71.8/66

eigen_dit_asym_atr1_rms vs Slug, Sign Corrected



Right In: 2823.448+/-0.762 χ^2/NDF : 743916.1/15

Left Out: 2730.401+/-0.526 χ^2/NDF :1280.9/16

Right Out: 2813.821+/-0.742 χ^2/NDF : 200511.7/18

Left In: 2732.652+/-0.548 χ^2/NDF :2416.2/14

Left: 2731.480+/-0.380 χ^2/NDF : 3705.9/31

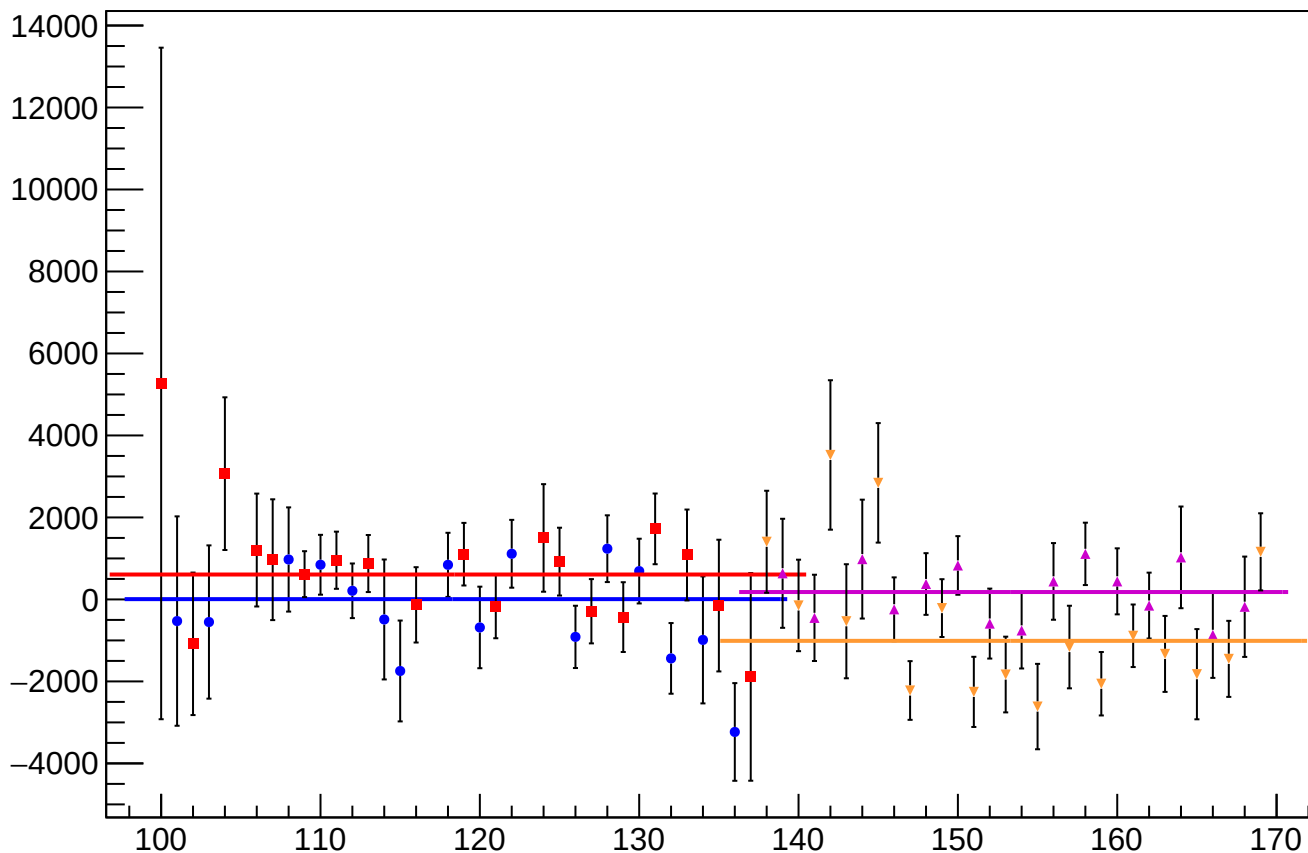
Right: 2818.511+/-0.532 χ^2/NDF : 944509.7/34

In: 2763.655+/-0.445 χ^2/NDF :755690.1/30

Out: 2758.318+/-0.429 χ^2/NDF :210194.0/35

All: 2760.891+/-0.309 χ^2/NDF : 965958.5/66

asym_atr1_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 7.049 ± 237.455 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -1010.507 ± 230.542 $\chi^2/\text{NDF}: 35.2/16$

Right Out: 607.647 ± 217.094 $\chi^2/\text{NDF}: 12.2/18$

Left In: 180.366 ± 235.445 $\chi^2/\text{NDF}: 7.2/14$

Left: -427.599 ± 164.724 $\chi^2/\text{NDF}: 55.4/31$

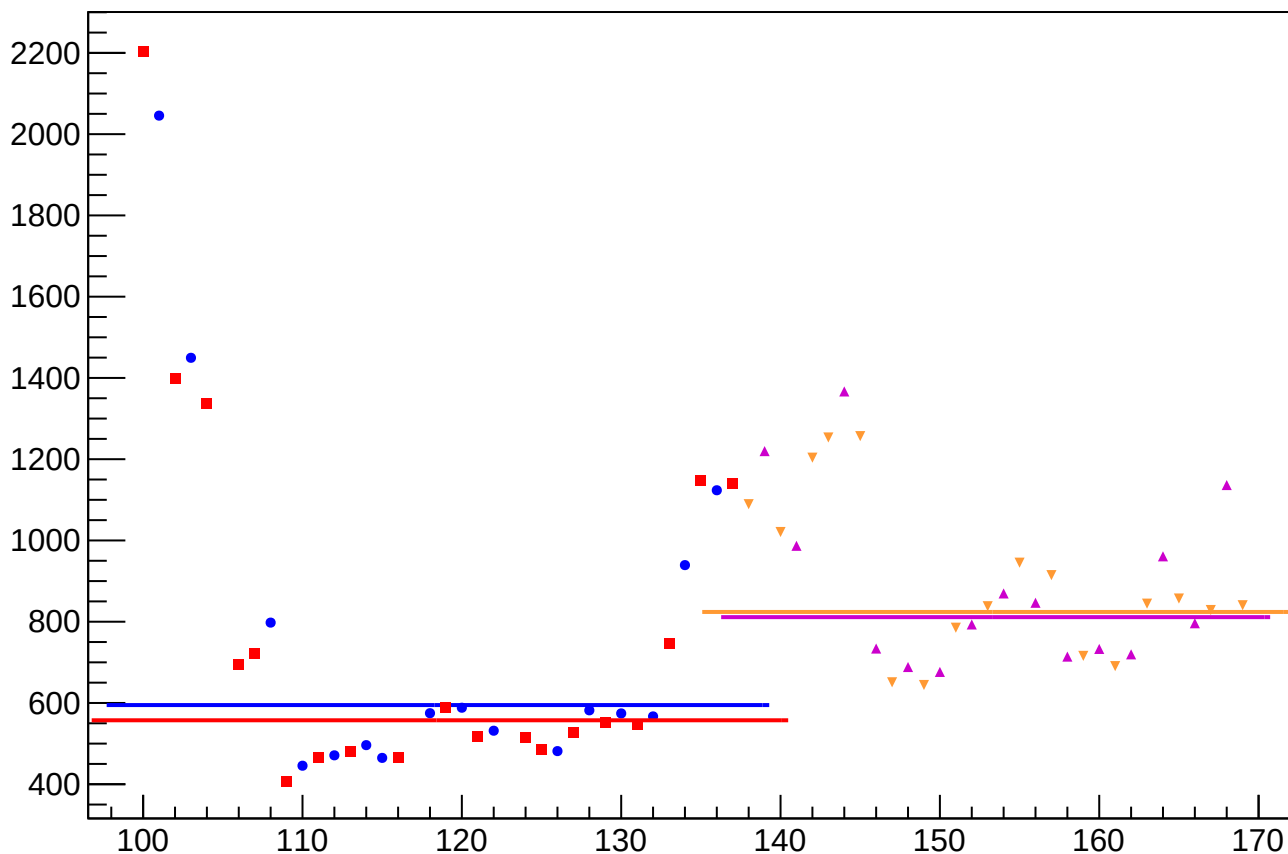
Right: 334.198 ± 160.224 $\chi^2/\text{NDF}: 38.5/34$

In: 94.444 ± 167.191 $\chi^2/\text{NDF}: 30.3/30$

Out: -152.858 ± 158.049 $\chi^2/\text{NDF}: 73.5/35$

All: -36.153 ± 114.853 $\chi^2/\text{NDF}: 104.9/66$

asym_atr1_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 594.858+/-0.168 χ^2/NDF : 1852649.9/15

Left Out: 824.030+/-0.163 χ^2/NDF : 1005052.8/16

Right Out: 557.397+/-0.154 χ^2/NDF : 1631307.0/18

Left In: 811.256+/-0.166 χ^2/NDF : 941846.5/14

Left: 817.778+/-0.116 χ^2/NDF : 1949904.7/31

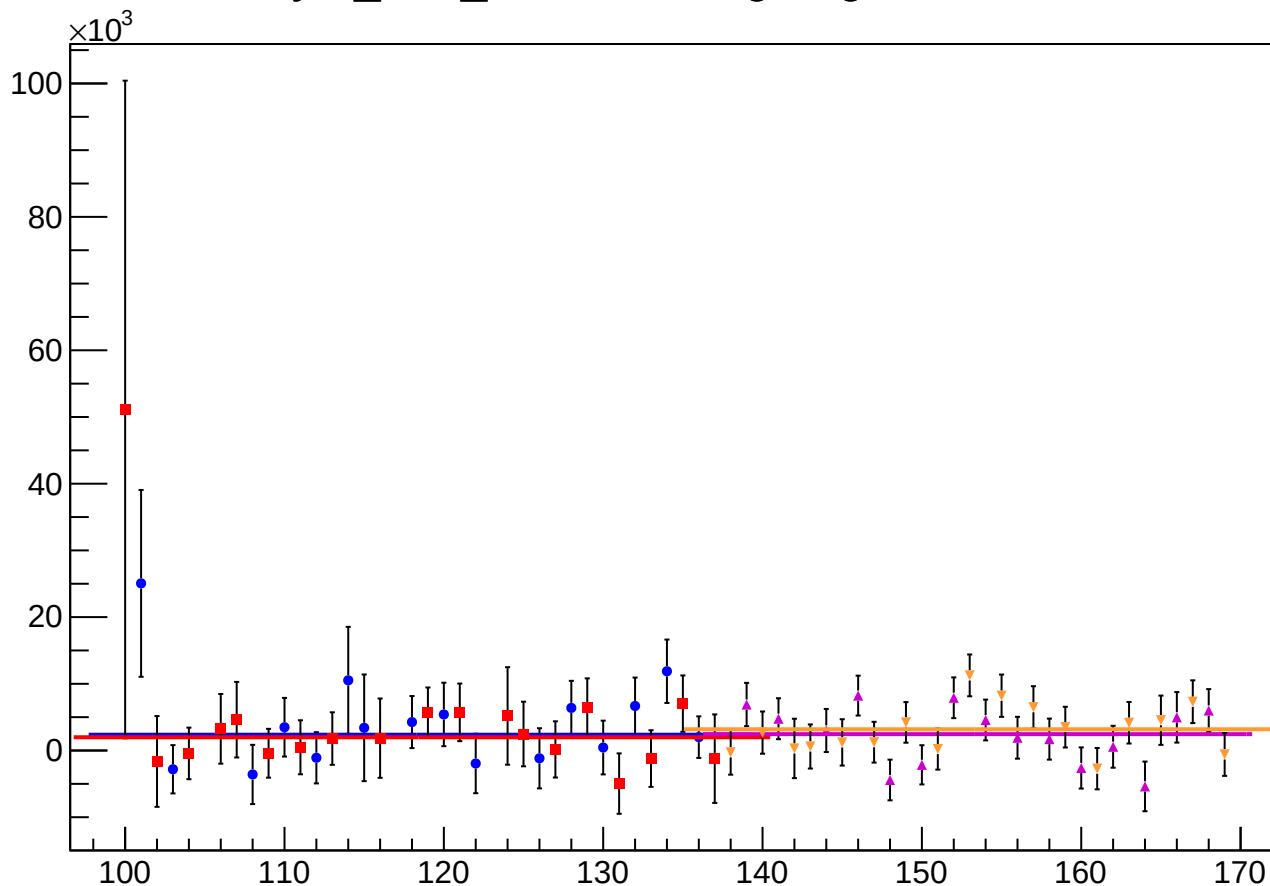
Right: 574.453+/-0.113 χ^2/NDF : 3511070.4/34

In: 703.977+/-0.118 χ^2/NDF : 3632064.7/30

Out: 682.710+/-0.112 χ^2/NDF : 4054262.0/35

All: 692.746+/-0.081 χ^2/NDF : 7703415.6/66

asym_atr1_mean vs Slug, Sign Corrected



Right In: 2367.173+/-1106.203 χ^2/NDF : 16.8/15

Left Out: 3186.349+/-786.172 χ^2/NDF : 21.1/16

Right Out: 1987.039+/-1075.310 χ^2/NDF : 10.3/18

Left In: 2454.174+/-816.909 χ^2/NDF : 26.6/14

Left: 2834.295+/-566.462 χ^2/NDF : 48.1/31

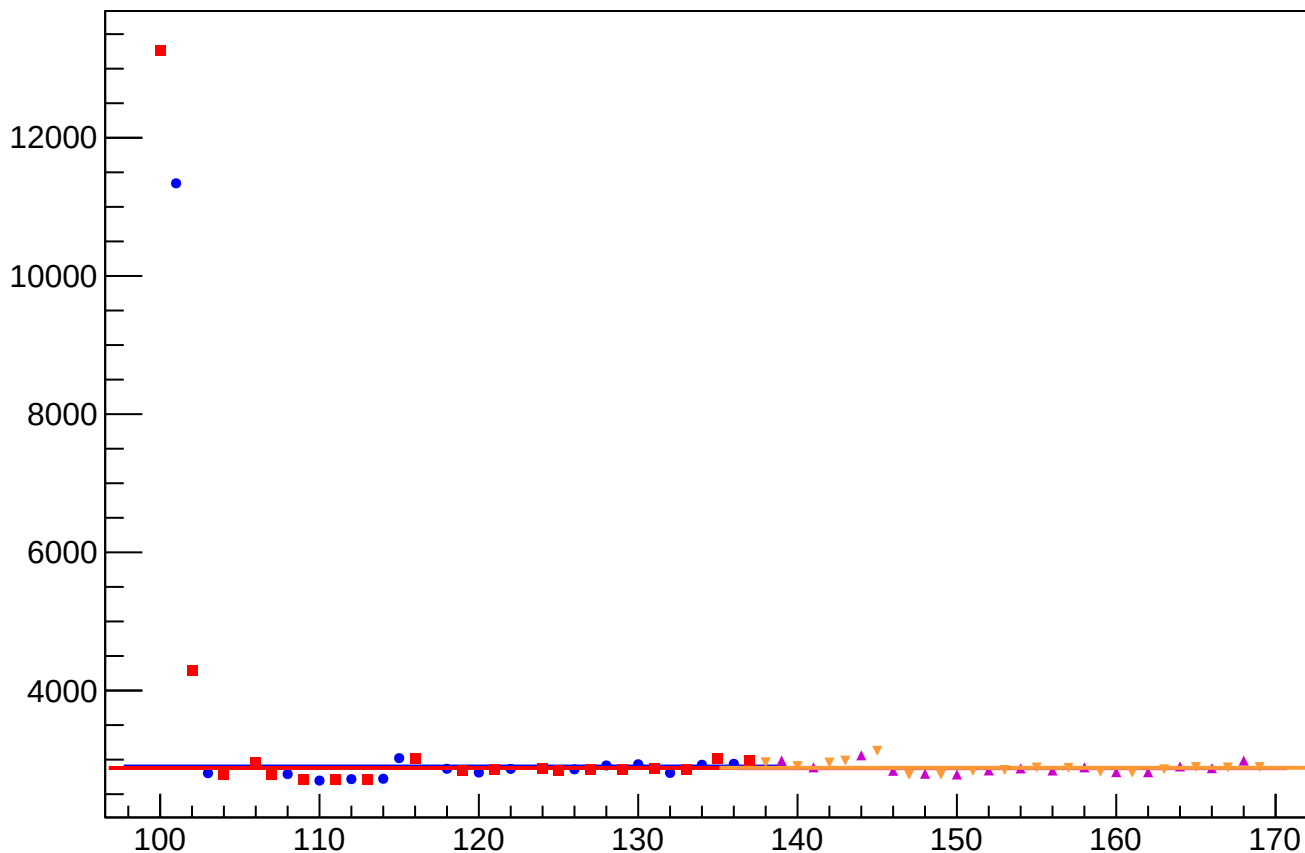
Right: 2171.724+/-771.049 χ^2/NDF : 27.2/34

In: 2423.472+/-657.143 χ^2/NDF : 43.5/30

Out: 2768.591+/-634.644 χ^2/NDF : 32.2/35

All: 2602.040+/-456.508 χ^2/NDF : 75.8/66

asym_atr1_rms vs Slug, Sign Corrected



Right In: 2899.827 $\pm$ 0.782 χ^2 /NDF: 741818.2/15

Left Out: 2881.442 $\pm$ 0.556 χ^2 /NDF: 20553.2/16

Right Out: 2878.957 $\pm$ 0.760 χ^2 /NDF: 193282.4/18

Left In: 2876.913 $\pm$ 0.578 χ^2 /NDF: 16952.2/14

Left: 2879.264 $\pm$ 0.401 χ^2 /NDF: 37537.2/31

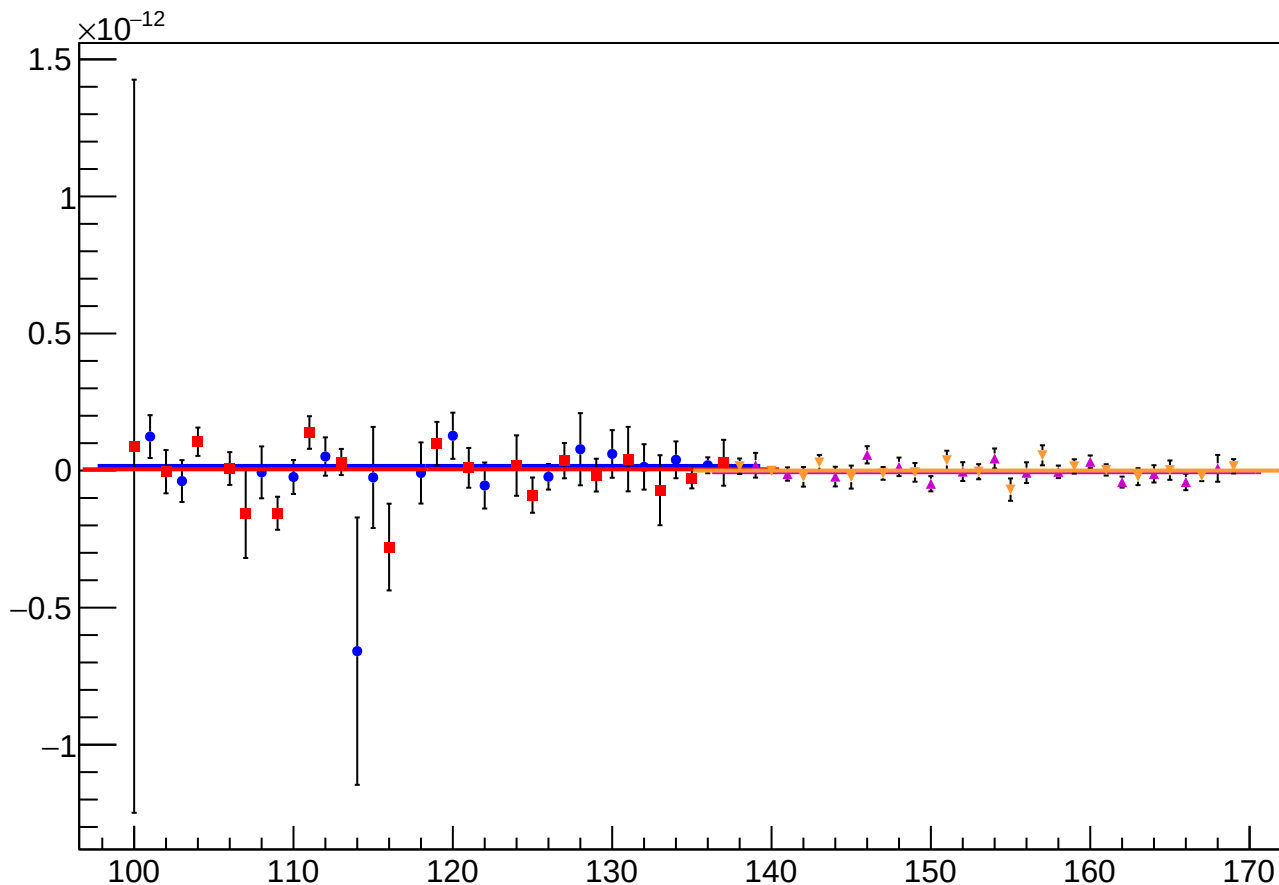
Right: 2889.097 $\pm$ 0.545 χ^2 /NDF: 935466.6/34

In: 2884.999 $\pm$ 0.465 χ^2 /NDF: 759325.6/30

Out: 2880.576 $\pm$ 0.449 χ^2 /NDF: 213842.6/35

All: 2882.711 $\pm$ 0.323 χ^2 /NDF: 973215.1/66

asym_atr1_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 11.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 25.7/18

Left In: -0.000+/-0.000 χ^2/NDF : 16.8/14

Left: -0.000+/-0.000 χ^2/NDF : 28.2/31

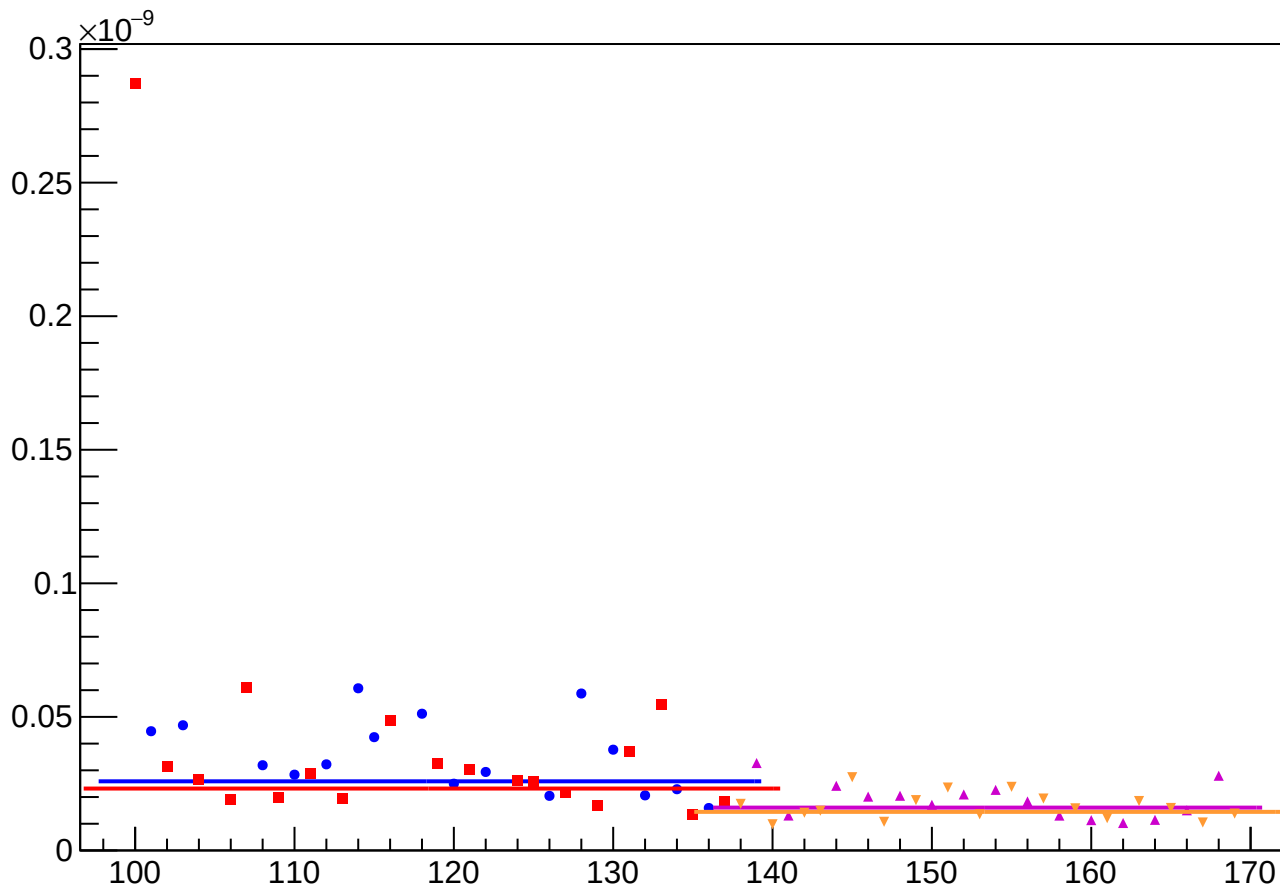
Right: 0.000+/-0.000 χ^2/NDF : 34.9/34

In: -0.000+/-0.000 χ^2/NDF : 27.2/30

Out: 0.000+/-0.000 χ^2/NDF : 36.9/35

All: -0.000+/-0.000 χ^2/NDF : 64.2/66

asym_atr1_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 865479.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :862861.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 688853.9/18

Left In: 0.000+/-0.000 χ^2/NDF :1041045.2/14

Left: 0.000+/-0.000 χ^2/NDF : 1953785.0/31

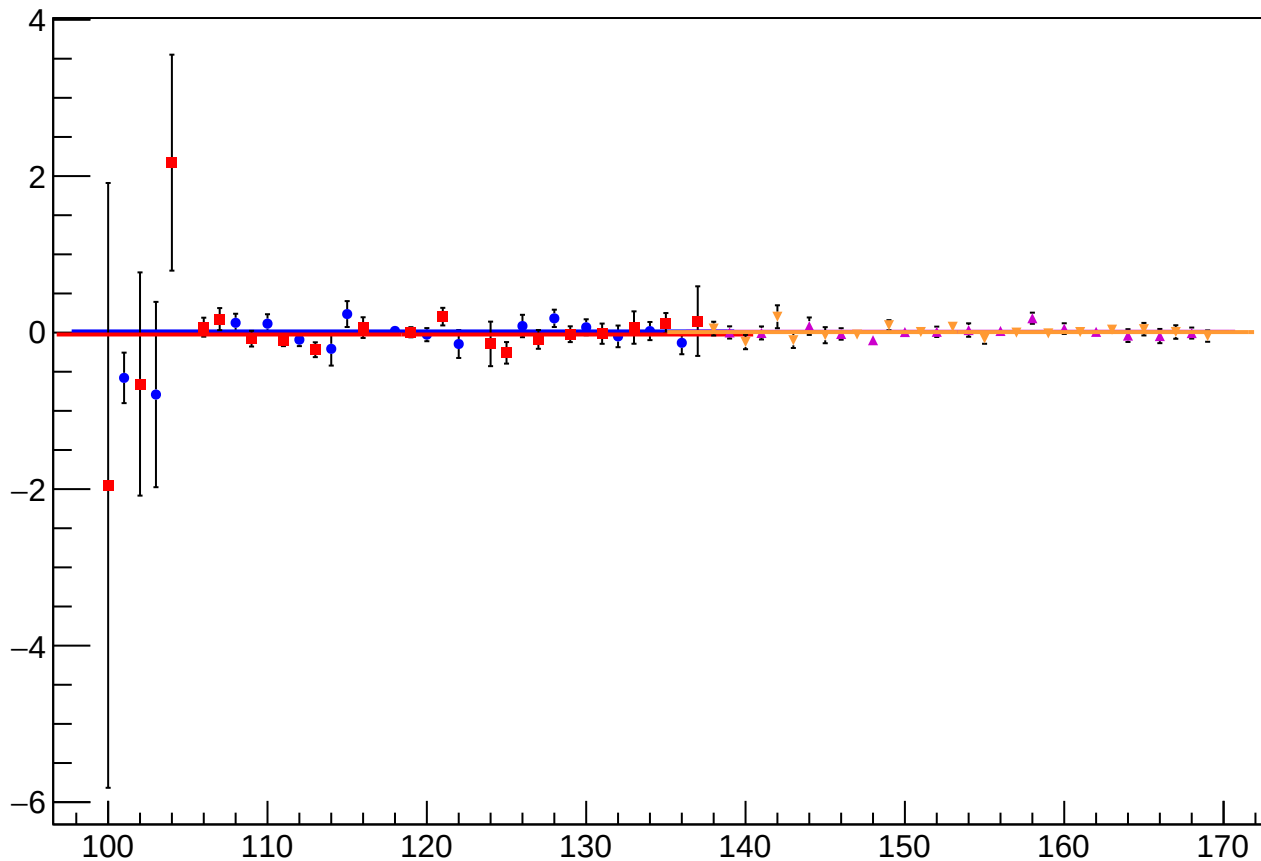
Right: 0.000+/-0.000 χ^2/NDF : 1581998.9/34

In: 0.000+/-0.000 χ^2/NDF :2473022.3/30

Out: 0.000+/-0.000 χ^2/NDF :2077677.9/35

All: 0.000+/-0.000 χ^2/NDF : 4638949.2/66

asym_atr1_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.028 χ^2/NDF : 15.0/15

Left Out: 0.007 ± 0.017 χ^2/NDF : 11.3/16

Right Out: -0.024 ± 0.028 χ^2/NDF : 20.8/18

Left In: 0.011 ± 0.018 χ^2/NDF : 10.7/14

Left: 0.008 ± 0.012 χ^2/NDF : 22.0/31

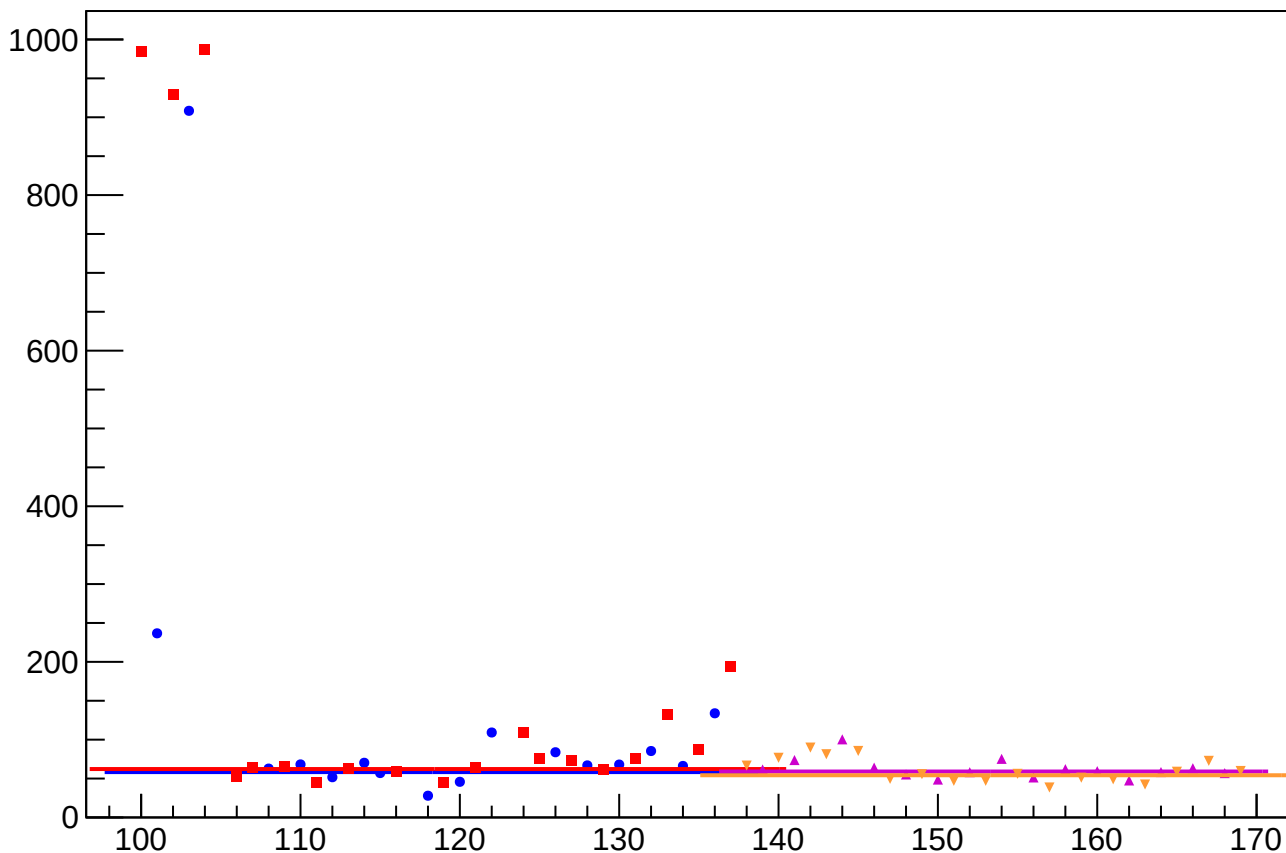
Right: -0.004 ± 0.020 χ^2/NDF : 36.8/34

In: 0.012 ± 0.015 χ^2/NDF : 25.7/30

Out: -0.002 ± 0.014 χ^2/NDF : 33.0/35

All: 0.005 ± 0.011 χ^2/NDF : 59.2/66

asym_atr1_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 58.313+/-0.020 χ^2/NDF : 3260404.3/15

Left Out: 54.238+/-0.012 χ^2/NDF : 1057430.3/16

Right Out: 62.235+/-0.020 χ^2/NDF : 2627030.1/18

Left In: 59.038+/-0.013 χ^2/NDF : 616413.9/14

Left: 56.430+/-0.009 χ^2/NDF : 1747716.4/31

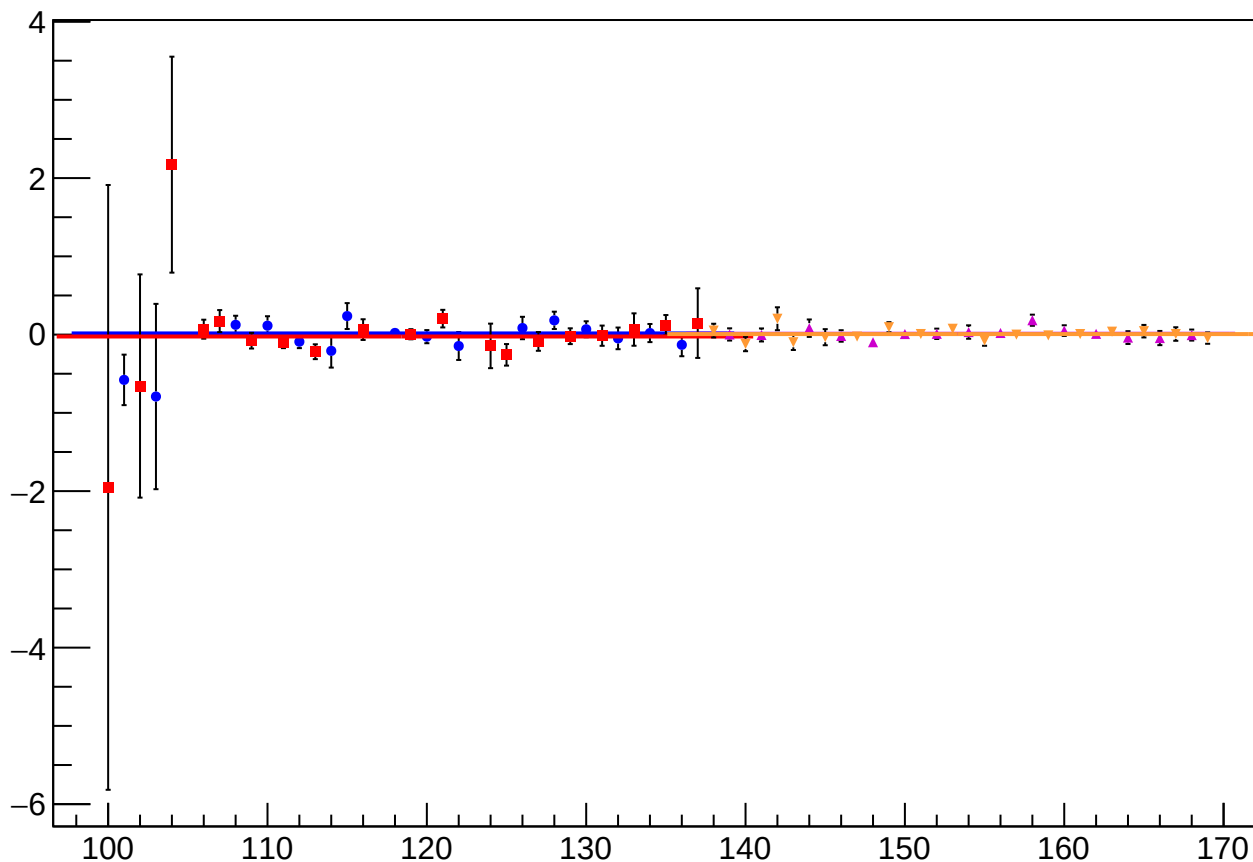
Right: 60.260+/-0.014 χ^2/NDF : 5907159.6/34

In: 58.817+/-0.011 χ^2/NDF : 3877761.9/30

Out: 56.366+/-0.010 χ^2/NDF : 3803958.8/35

All: 57.518+/-0.007 χ^2/NDF : 7708734.0/66

asym_atr1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.028 χ^2 /NDF: 15.0/15

Left Out: 0.007 $\pm$ 0.017 χ^2 /NDF:11.3/16

Right Out: -0.024 $\pm$ 0.028 χ^2 /NDF: 20.8/18

Left In: 0.011 $\pm$ 0.018 χ^2 /NDF:10.7/14

Left: 0.008 $\pm$ 0.012 χ^2 /NDF: 22.0/31

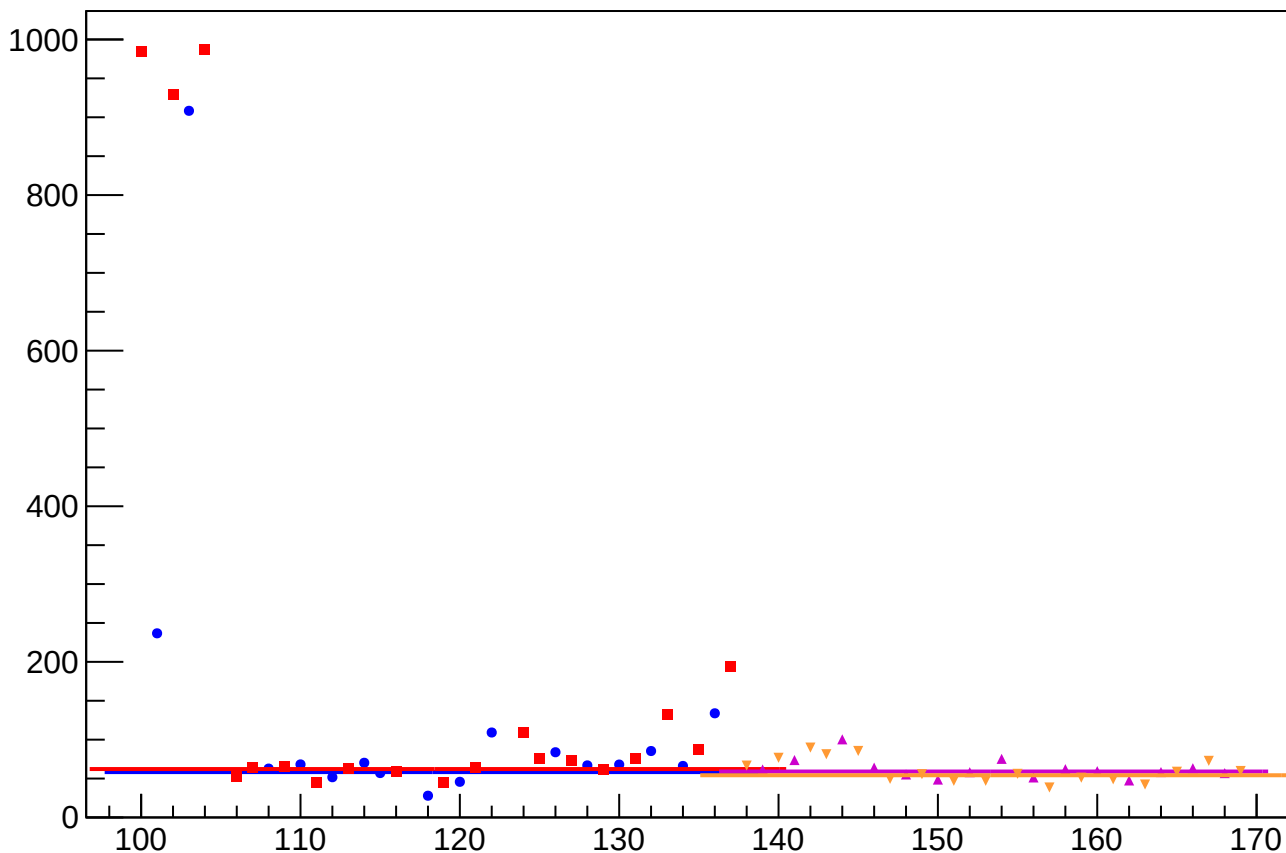
Right: -0.004 $\pm$ 0.020 χ^2 /NDF: 36.8/34

In: 0.012 $\pm$ 0.015 χ^2 /NDF:25.7/30

Out: -0.002 $\pm$ 0.014 χ^2 /NDF:33.0/35

All: 0.005 $\pm$ 0.011 χ^2 /NDF: 59.2/66

asym_atr1_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 58.313+/-0.020 χ^2/NDF : 3260404.3/15

Left Out: 54.238+/-0.012 χ^2/NDF : 1057430.3/16

Right Out: 62.235+/-0.020 χ^2/NDF : 2627030.1/18

Left In: 59.038+/-0.013 χ^2/NDF : 616413.9/14

Left: 56.430+/-0.009 χ^2/NDF : 1747716.4/31

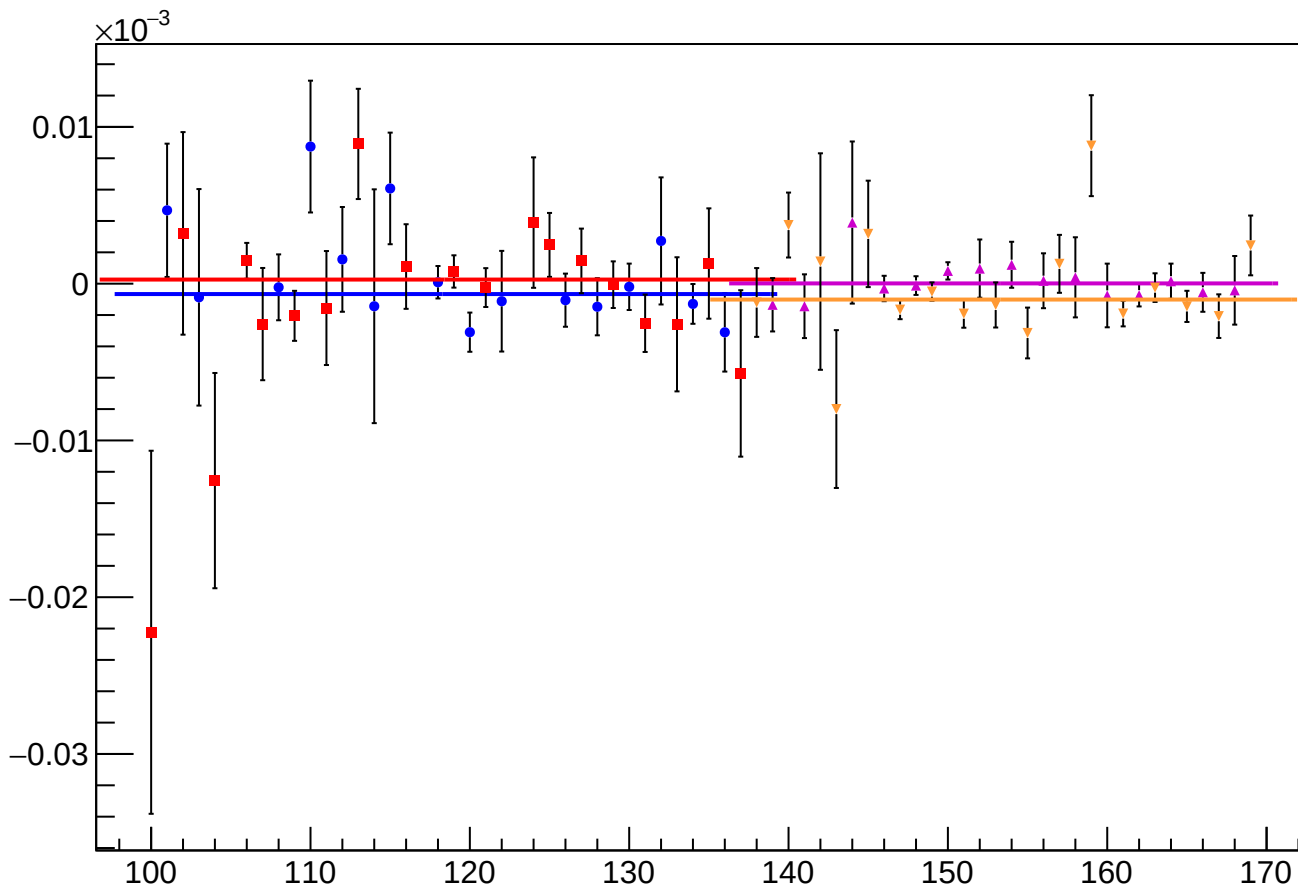
Right: 60.260+/-0.014 χ^2/NDF : 5907159.6/34

In: 58.817+/-0.011 χ^2/NDF : 3877761.9/30

Out: 56.366+/-0.010 χ^2/NDF : 3803958.8/35

All: 57.518+/-0.007 χ^2/NDF : 7708734.0/66

asym_atr1_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 17.2/15

Left Out: -0.000+/-0.000 χ^2 /NDF:30.3/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 24.6/18

Left In: 0.000+/-0.000 χ^2 /NDF:6.5/14

Left: -0.000+/-0.000 χ^2 /NDF: 43.8/31

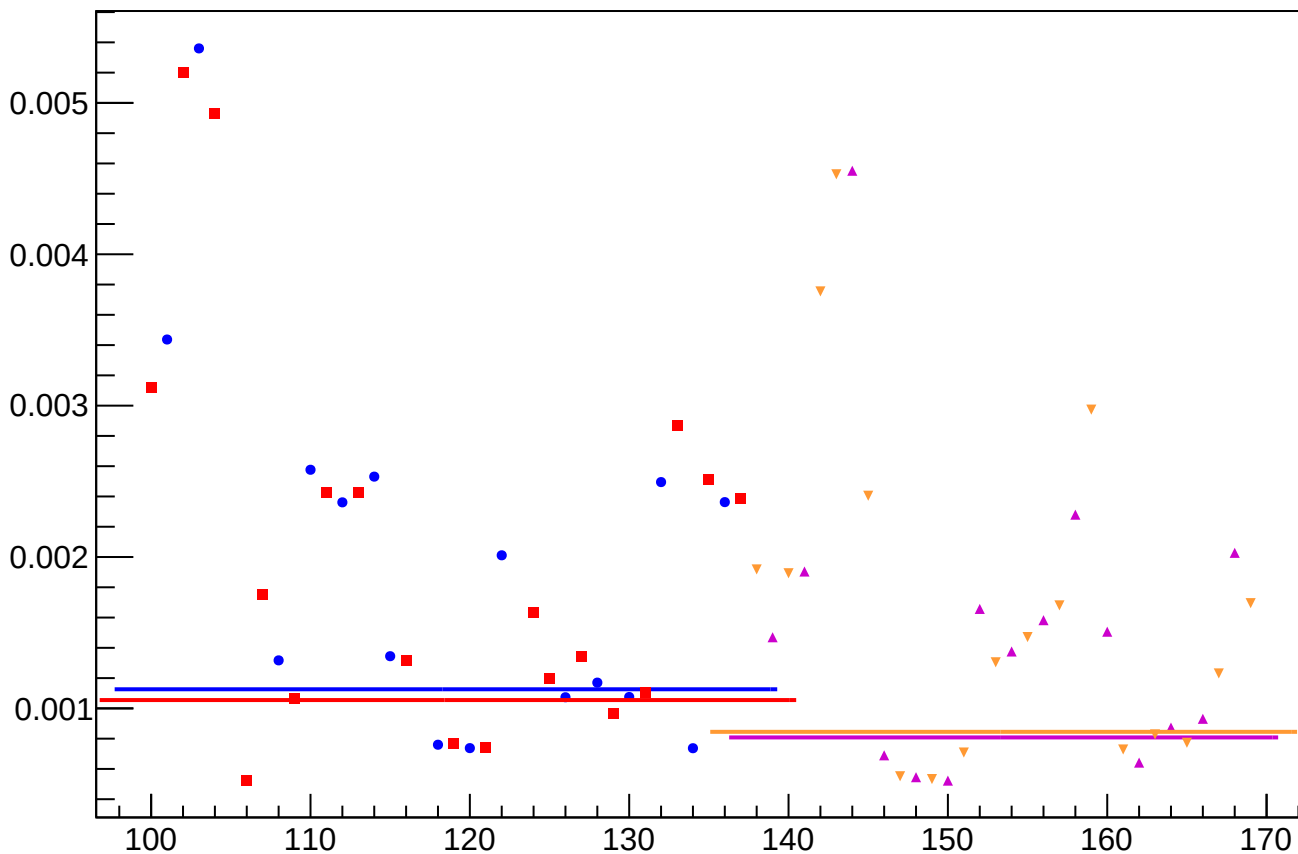
Right: -0.000+/-0.000 χ^2 /NDF: 43.7/34

In: -0.000+/-0.000 χ^2 /NDF:25.2/30

Out: -0.000+/-0.000 χ^2 /NDF:60.4/35

All: -0.000+/-0.000 χ^2 /NDF: 88.2/66

asym_atr1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 3453081.7/15

Left Out: 0.001+/-0.000 χ^2/NDF : 6313885.6/16

Right Out: 0.001+/-0.000 χ^2/NDF : 3848500.2/18

Left In: 0.001+/-0.000 χ^2/NDF : 5660974.8/14

Left: 0.001+/-0.000 χ^2/NDF : 11993070.3/31

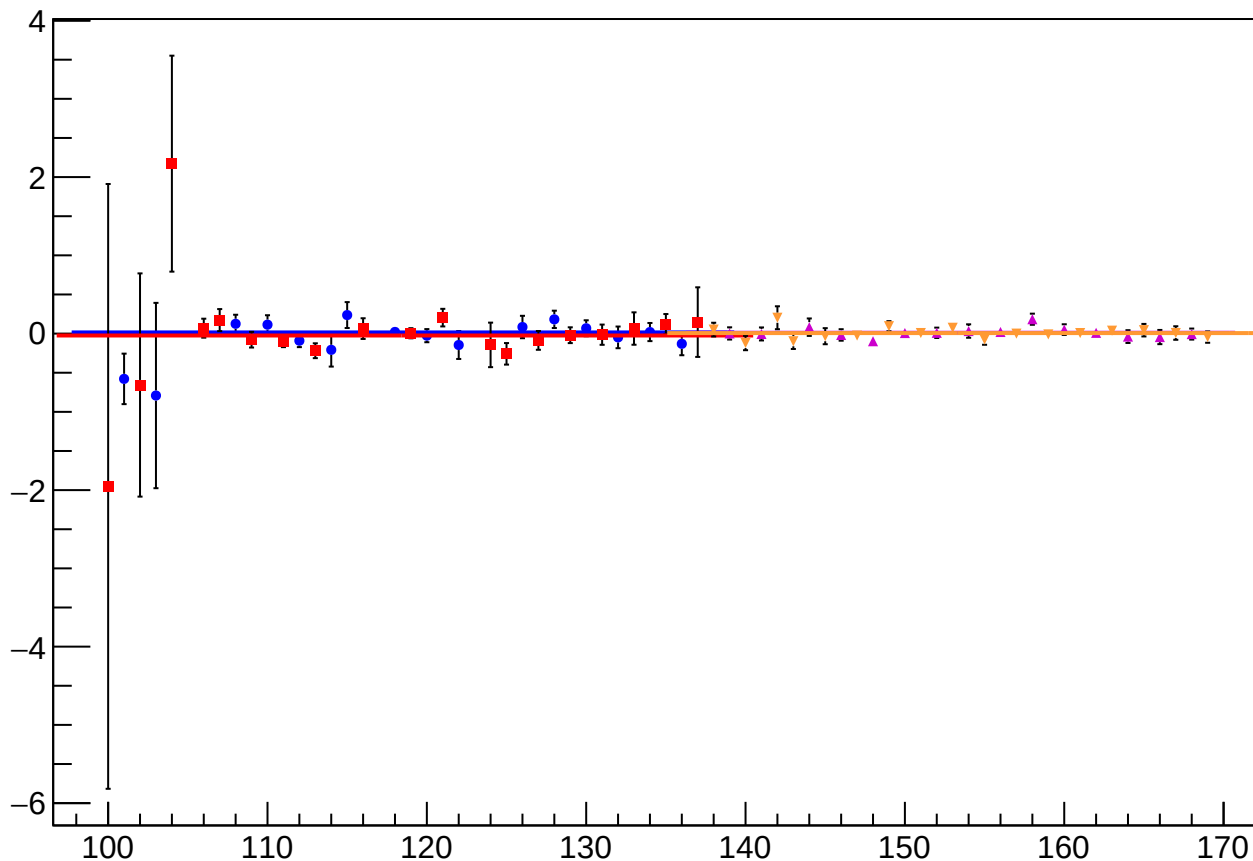
Right: 0.001+/-0.000 χ^2/NDF : 7323820.3/34

In: 0.001+/-0.000 χ^2/NDF : 9756082.7/30

Out: 0.001+/-0.000 χ^2/NDF : 10464557.2/35

All: 0.001+/-0.000 χ^2/NDF : 20224944.0/66

asym_atr1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.028 χ^2/NDF : 15.0/15

Left Out: 0.007 $\pm$ 0.017 χ^2/NDF :11.3/16

Right Out: -0.024 $\pm$ 0.028 χ^2/NDF : 20.8/18

Left In: 0.011 $\pm$ 0.018 χ^2/NDF :10.7/14

Left: 0.008 $\pm$ 0.012 χ^2/NDF : 22.0/31

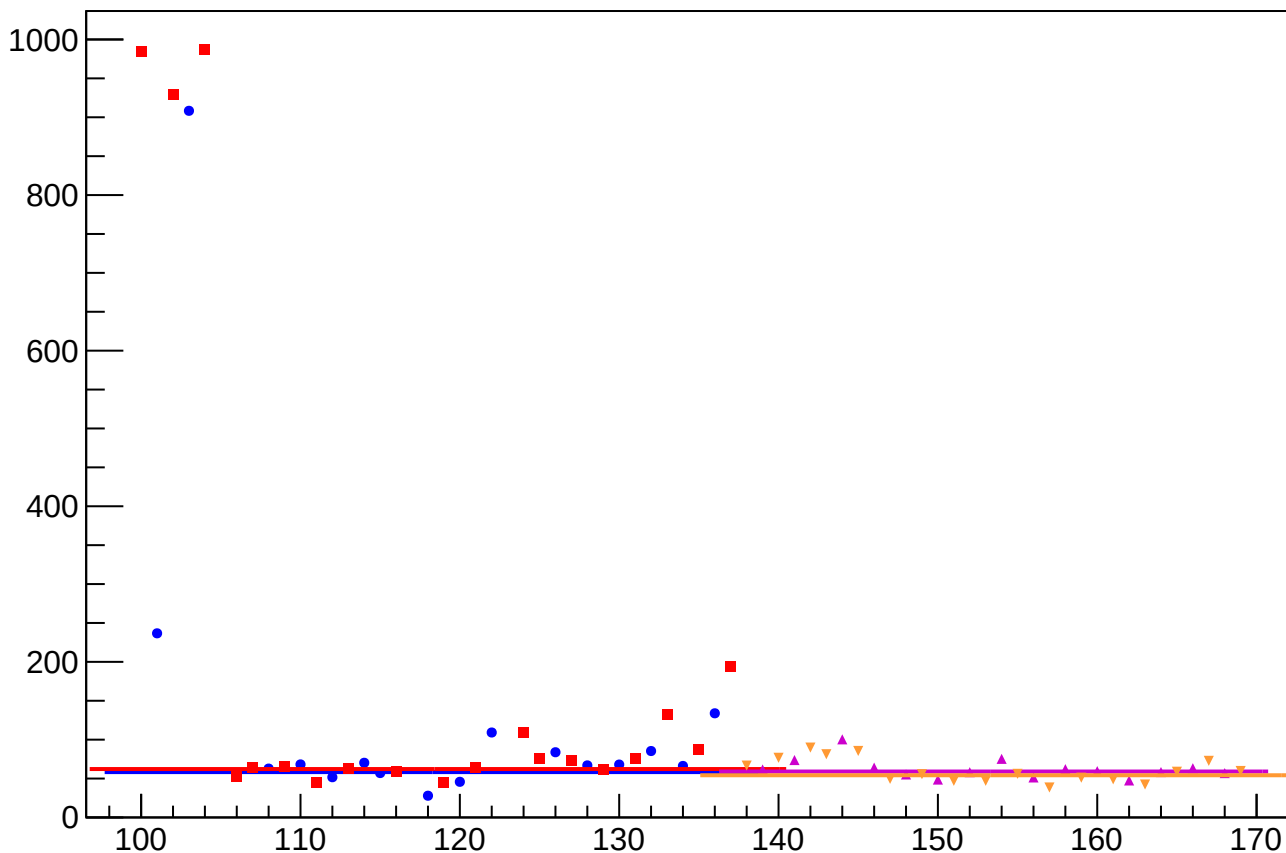
Right: -0.004 $\pm$ 0.020 χ^2/NDF : 36.8/34

In: 0.012 $\pm$ 0.015 χ^2/NDF :25.7/30

Out: -0.002 $\pm$ 0.014 χ^2/NDF :33.0/35

All: 0.005 $\pm$ 0.011 χ^2/NDF : 59.2/66

asym_atr1_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 58.312+/-0.020 χ^2/NDF : 3260484.2/15

Left Out: 54.238+/-0.012 χ^2/NDF : 1057501.8/16

Right Out: 62.235+/-0.020 χ^2/NDF : 2627022.3/18

Left In: 59.038+/-0.013 χ^2/NDF : 616438.2/14

Left: 56.430+/-0.009 χ^2/NDF : 1747831.2/31

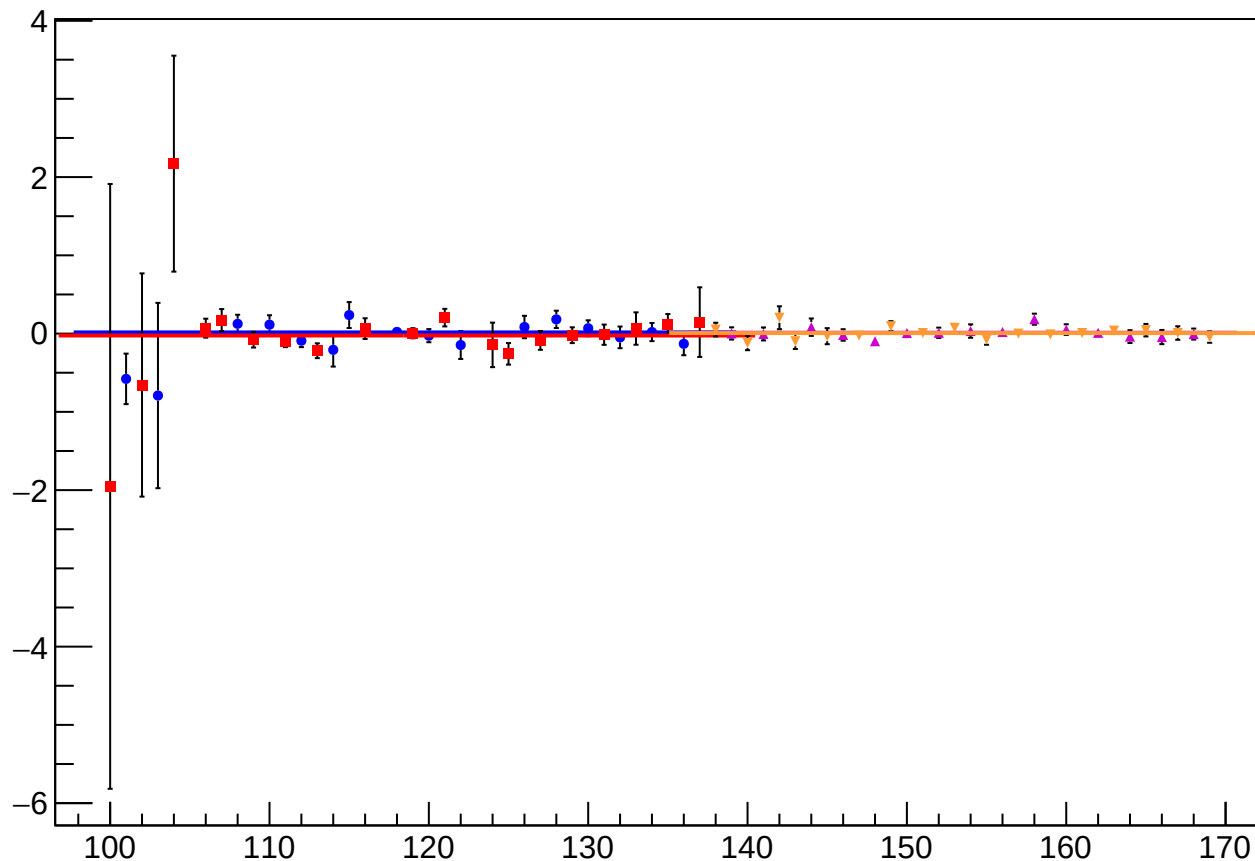
Right: 60.260+/-0.014 χ^2/NDF : 5907238.5/34

In: 58.817+/-0.011 χ^2/NDF : 3877868.3/30

Out: 56.366+/-0.010 χ^2/NDF : 3804035.9/35

All: 57.518+/-0.007 χ^2/NDF : 7708923.1/66

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.028 χ^2 /NDF: 15.0/15

Left Out: 0.007 $\pm$ 0.017 χ^2 /NDF:11.3/16

Right Out: -0.024 $\pm$ 0.028 χ^2 /NDF: 20.8/18

Left In: 0.011 $\pm$ 0.018 χ^2 /NDF:10.7/14

Left: 0.008 $\pm$ 0.012 χ^2 /NDF: 22.0/31

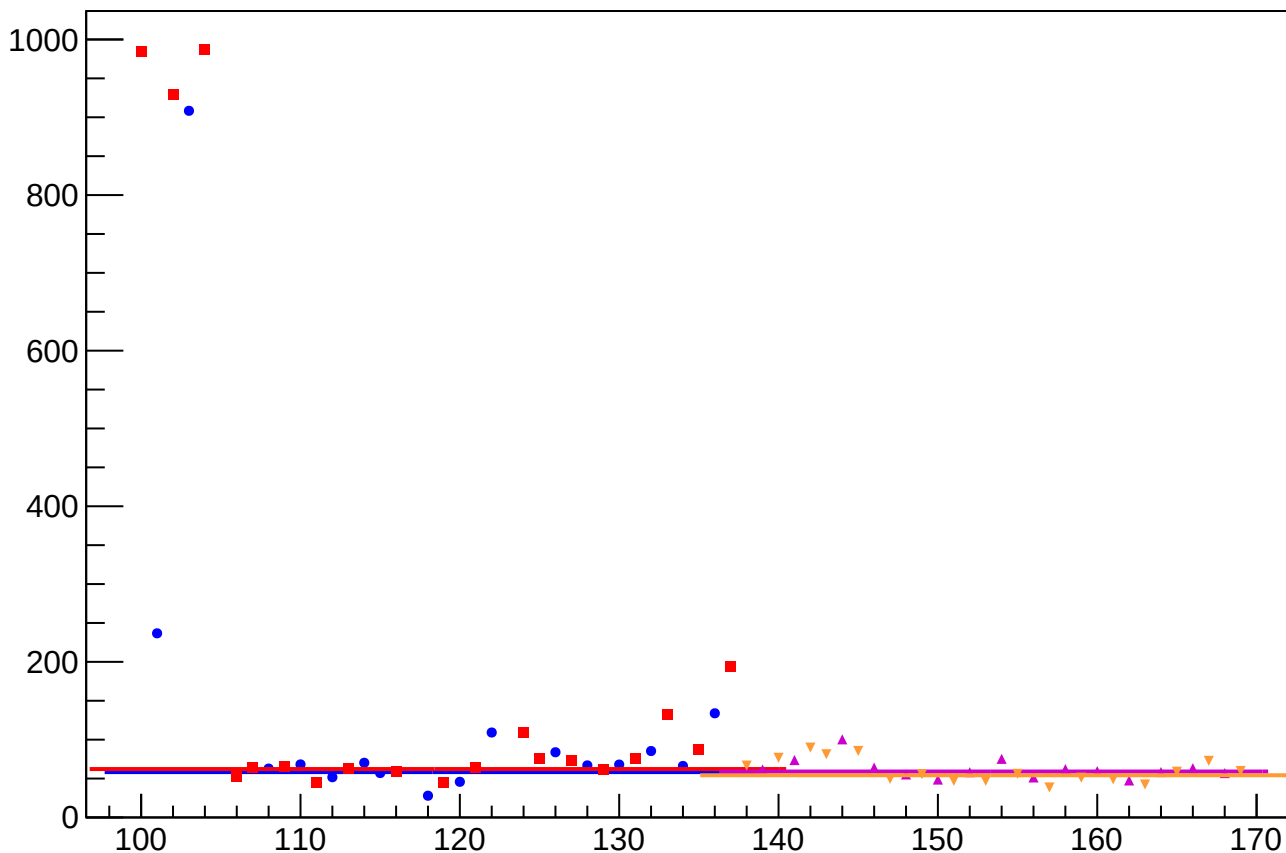
Right: -0.004 $\pm$ 0.020 χ^2 /NDF: 36.8/34

In: 0.012 $\pm$ 0.015 χ^2 /NDF:25.7/30

Out: -0.002 $\pm$ 0.014 χ^2 /NDF:33.0/35

All: 0.005 $\pm$ 0.011 χ^2 /NDF: 59.2/66

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 58.312 $\pm$ 0.020 χ^2 /NDF: 3260484.2/15

Left Out: 54.238 $\pm$ 0.012 χ^2 /NDF: 1057501.8/16

Right Out: 62.235 $\pm$ 0.020 χ^2 /NDF: 2627022.3/18

Left In: 59.038 $\pm$ 0.013 χ^2 /NDF: 616438.2/14

Left: 56.430 $\pm$ 0.009 χ^2 /NDF: 1747831.2/31

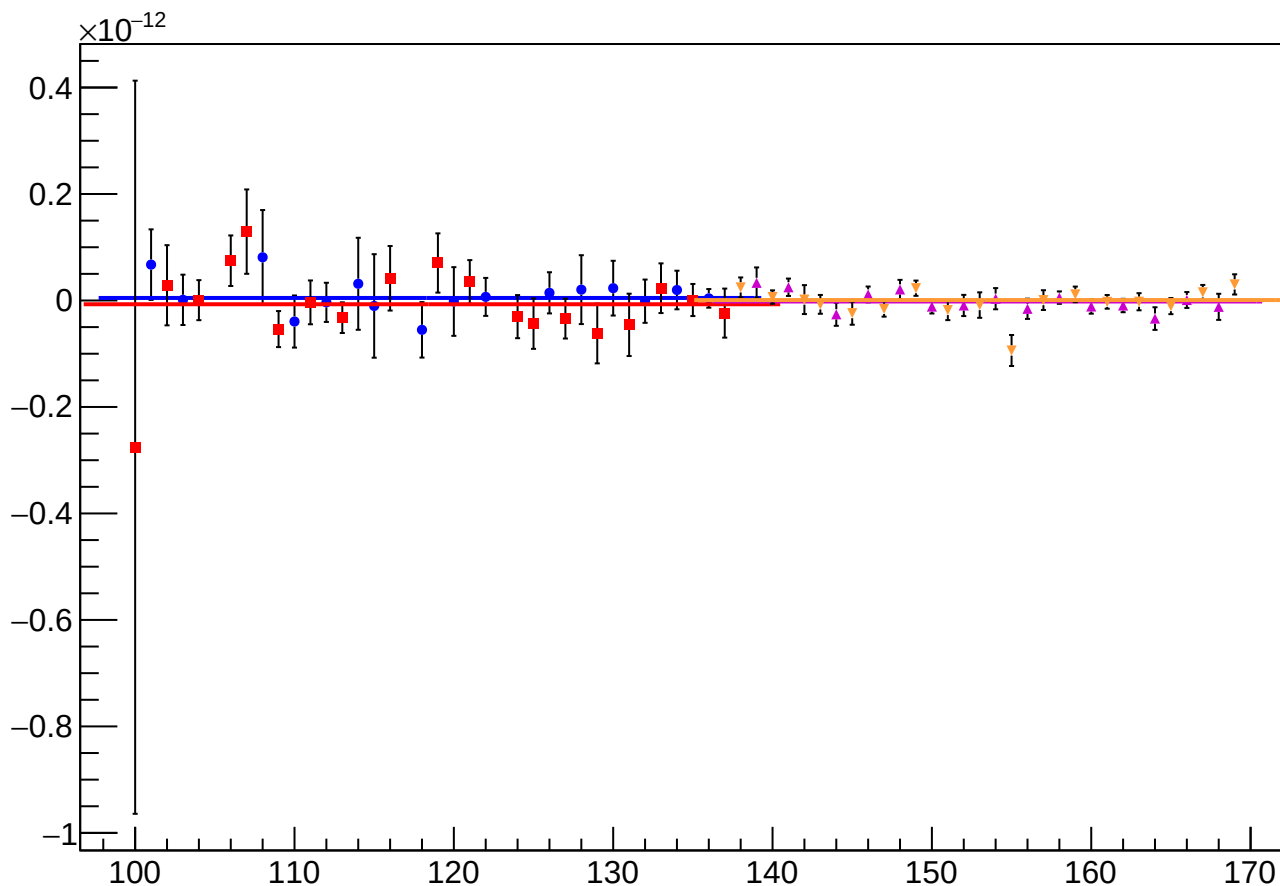
Right: 60.260 $\pm$ 0.014 χ^2 /NDF: 5907238.5/34

In: 58.817 $\pm$ 0.011 χ^2 /NDF: 3877868.3/30

Out: 56.366 $\pm$ 0.010 χ^2 /NDF: 3804035.9/35

All: 57.518 $\pm$ 0.007 χ^2 /NDF: 7708923.1/66

asym_atr1_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :23.4/16

Right Out: -0.000+/-0.000 χ^2/NDF : 16.1/18

Left In: -0.000+/-0.000 χ^2/NDF :12.8/14

Left: -0.000+/-0.000 χ^2/NDF : 36.4/31

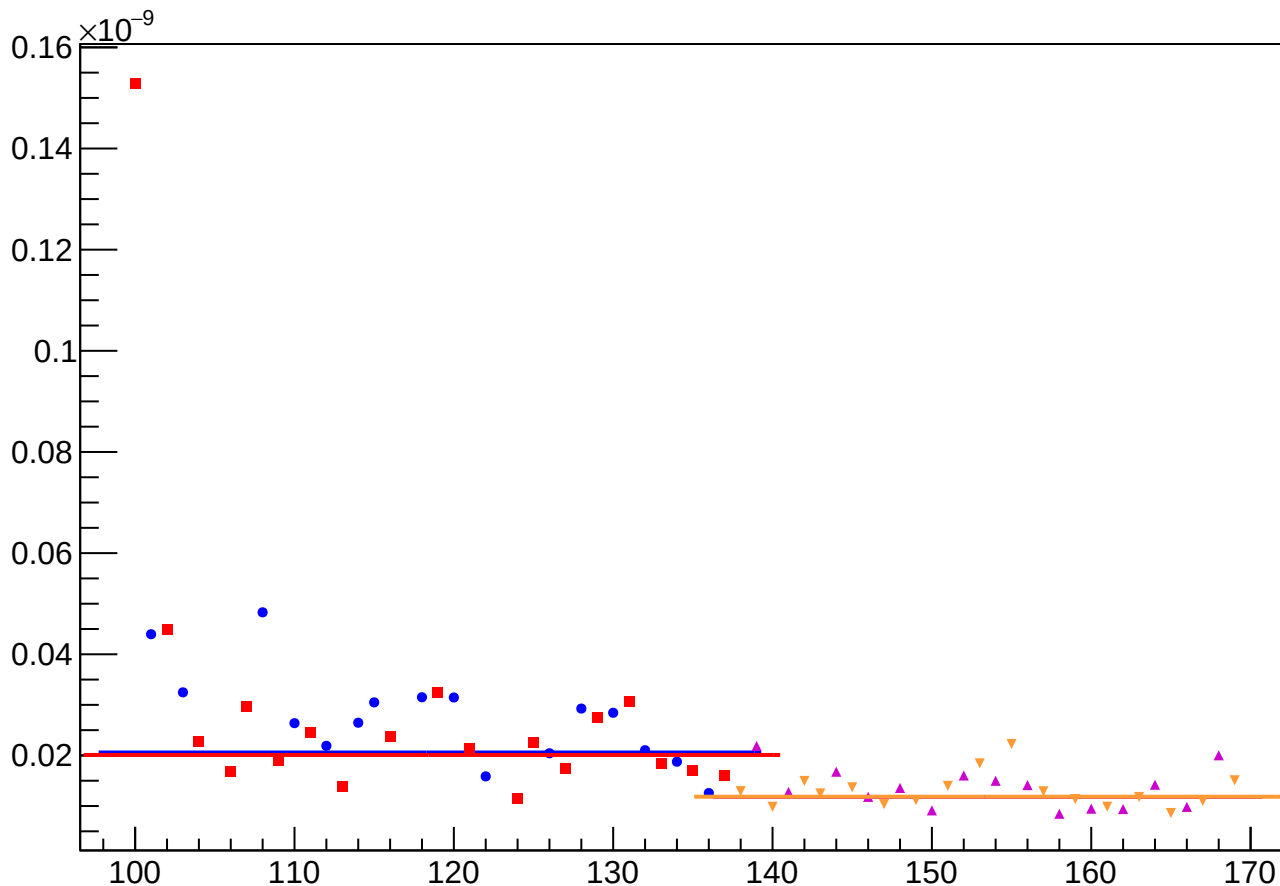
Right: -0.000+/-0.000 χ^2/NDF : 21.2/34

In: -0.000+/-0.000 χ^2/NDF :17.5/30

Out: -0.000+/-0.000 χ^2/NDF :40.1/35

All: -0.000+/-0.000 χ^2/NDF : 57.6/66

asym_atr1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1319631.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 771534.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 812191.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 1212811.5/14

Left: 0.000+/-0.000 χ^2/NDF : 1984499.9/31

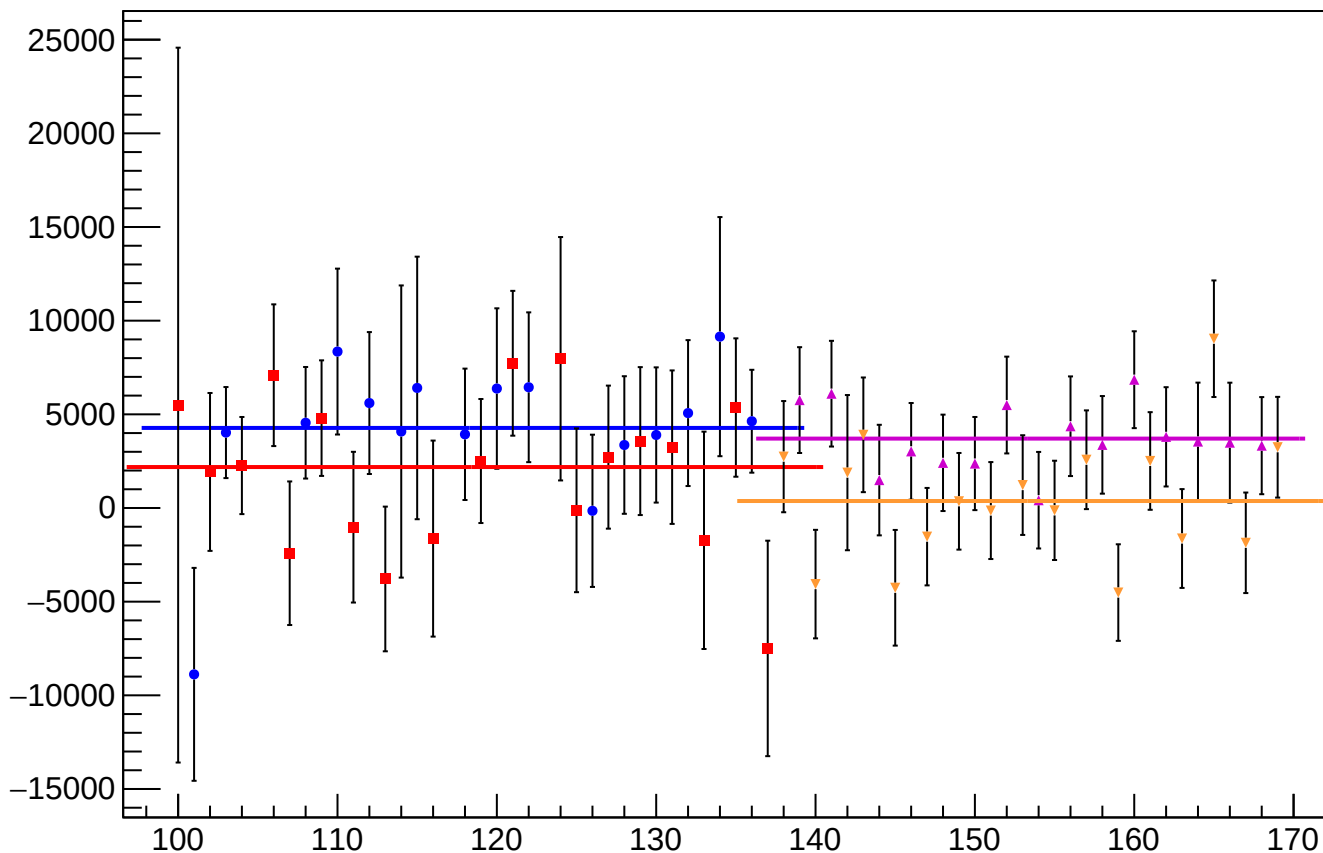
Right: 0.000+/-0.000 χ^2/NDF : 2134051.1/34

In: 0.000+/-0.000 χ^2/NDF : 3789553.6/30

Out: 0.000+/-0.000 χ^2/NDF : 2732267.7/35

All: 0.000+/-0.000 χ^2/NDF : 6522304.8/66

reg_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4274.393+/-951.956 χ^2/NDF : 8.9/15

Left Out: 372.586+/-674.243 χ^2/NDF : 22.5/16

Right Out: 2186.264+/-922.104 χ^2/NDF : 14.8/18

Left In: 3704.533+/-697.173 χ^2/NDF : 6.1/14

Left: 1982.865+/-484.666 χ^2/NDF : 40.5/31

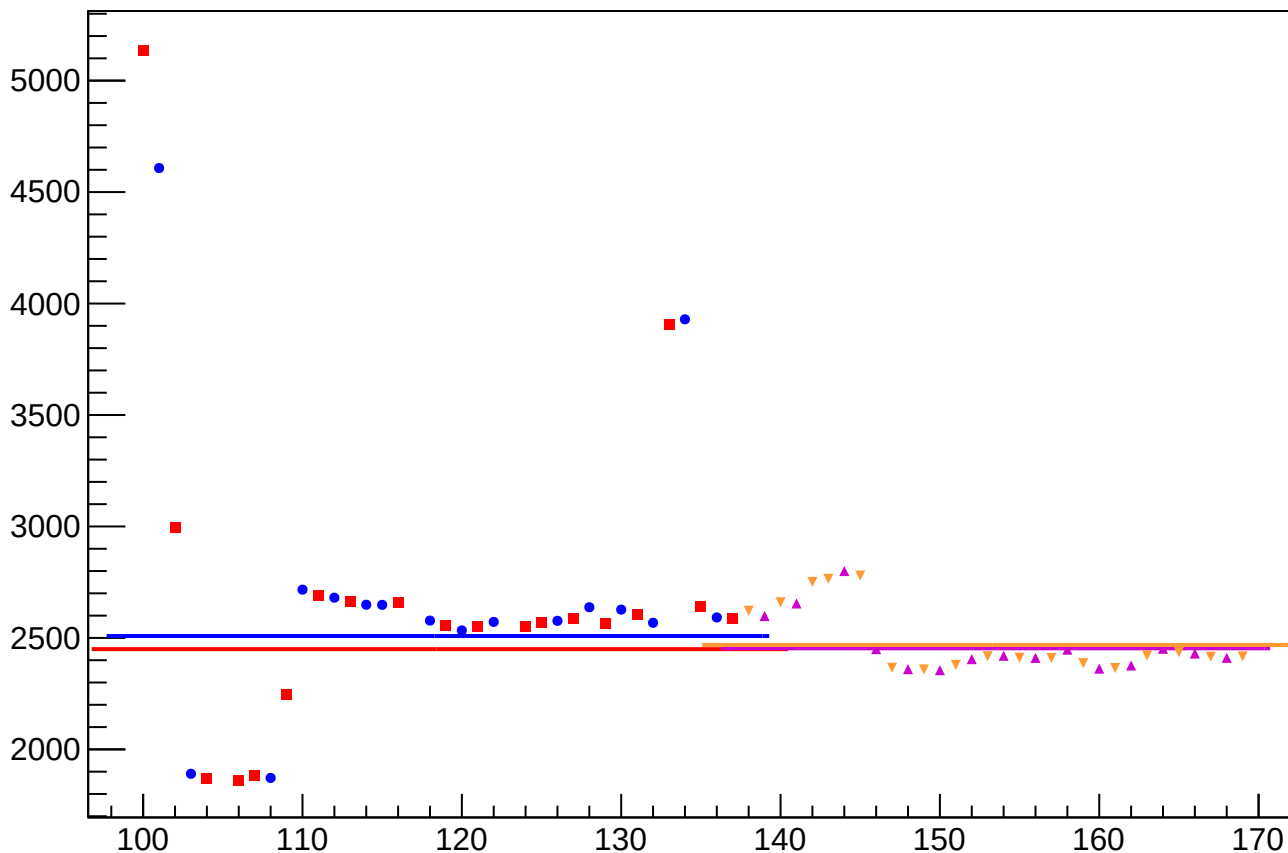
Right: 3197.075+/-662.328 χ^2/NDF : 26.2/34

In: 3903.475+/-562.465 χ^2/NDF : 15.2/30

Out: 1004.449+/-544.266 χ^2/NDF : 39.9/35

All: 2406.303+/-391.130 χ^2/NDF : 68.8/66

reg_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2508.466 $\pm$ 0.673 χ^2 /NDF: 611589.6/15

Left Out: 2468.556 $\pm$ 0.477 χ^2 /NDF: 81815.7/16

Right Out: 2449.623 $\pm$ 0.652 χ^2 /NDF: 436901.0/18

Left In: 2453.462 $\pm$ 0.493 χ^2 /NDF: 55217.4/14

Left: 2461.261 $\pm$ 0.343 χ^2 /NDF: 137517.5/31

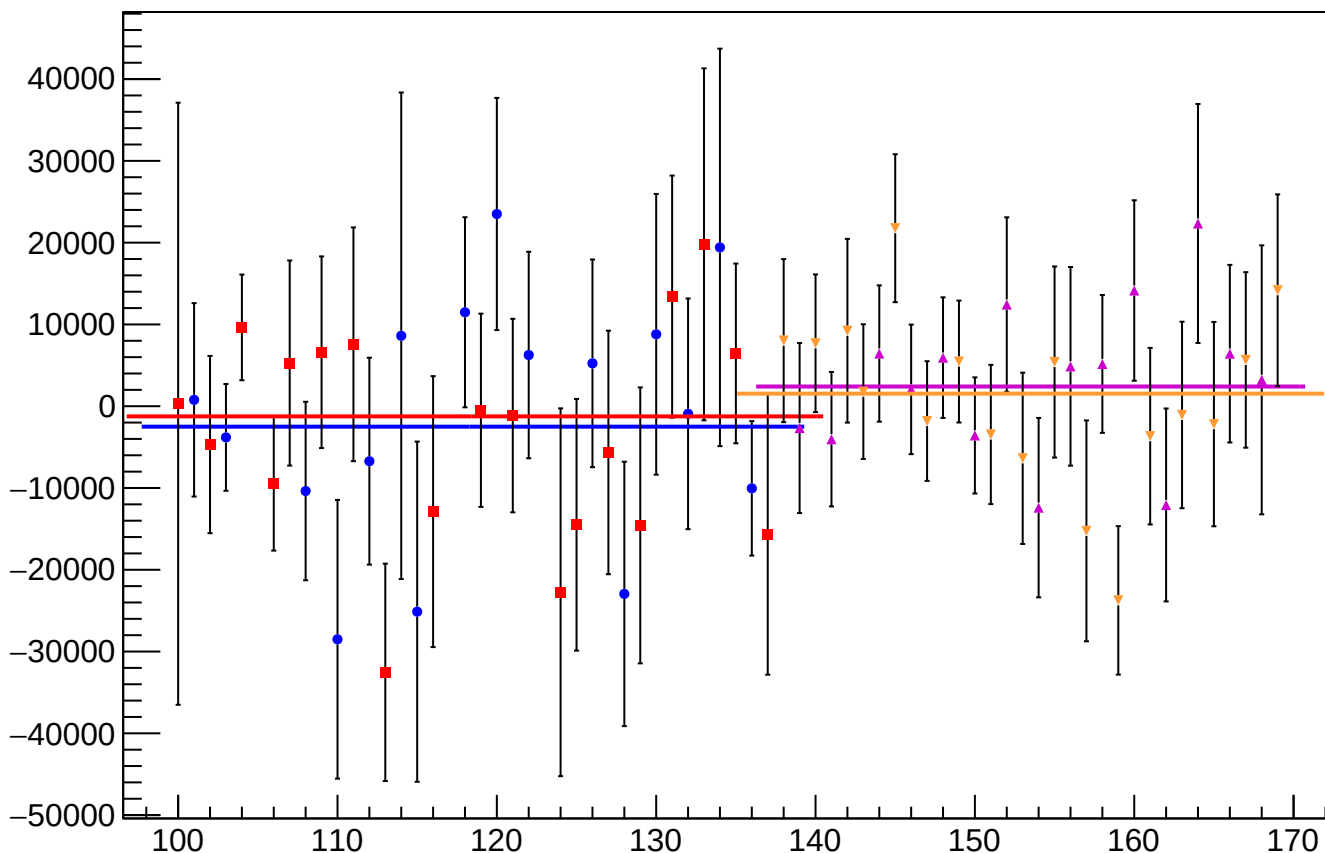
Right: 2478.107 $\pm$ 0.468 χ^2 /NDF: 1052433.3/34

In: 2472.665 $\pm$ 0.398 χ^2 /NDF: 671153.2/30

Out: 2461.960 $\pm$ 0.385 χ^2 /NDF: 519266.1/35

All: 2467.136 $\pm$ 0.277 χ^2 /NDF: 1190793.4/66

asym_atr2_reg_correction_mean vs Slug, Sign Corrected



Right In: -2500.602 $\pm$ 3075.580 χ^2/NDF : 13.8/15

Left Out: 1536.167 $\pm$ 2342.485 χ^2/NDF : 18.9/16

Right Out: -1244.352 $\pm$ 2852.739 χ^2/NDF : 16.6/18

Left In: 2407.780 $\pm$ 2478.122 χ^2/NDF : 9.5/14

Left: 1947.468 $\pm$ 1702.319 χ^2/NDF : 28.5/31

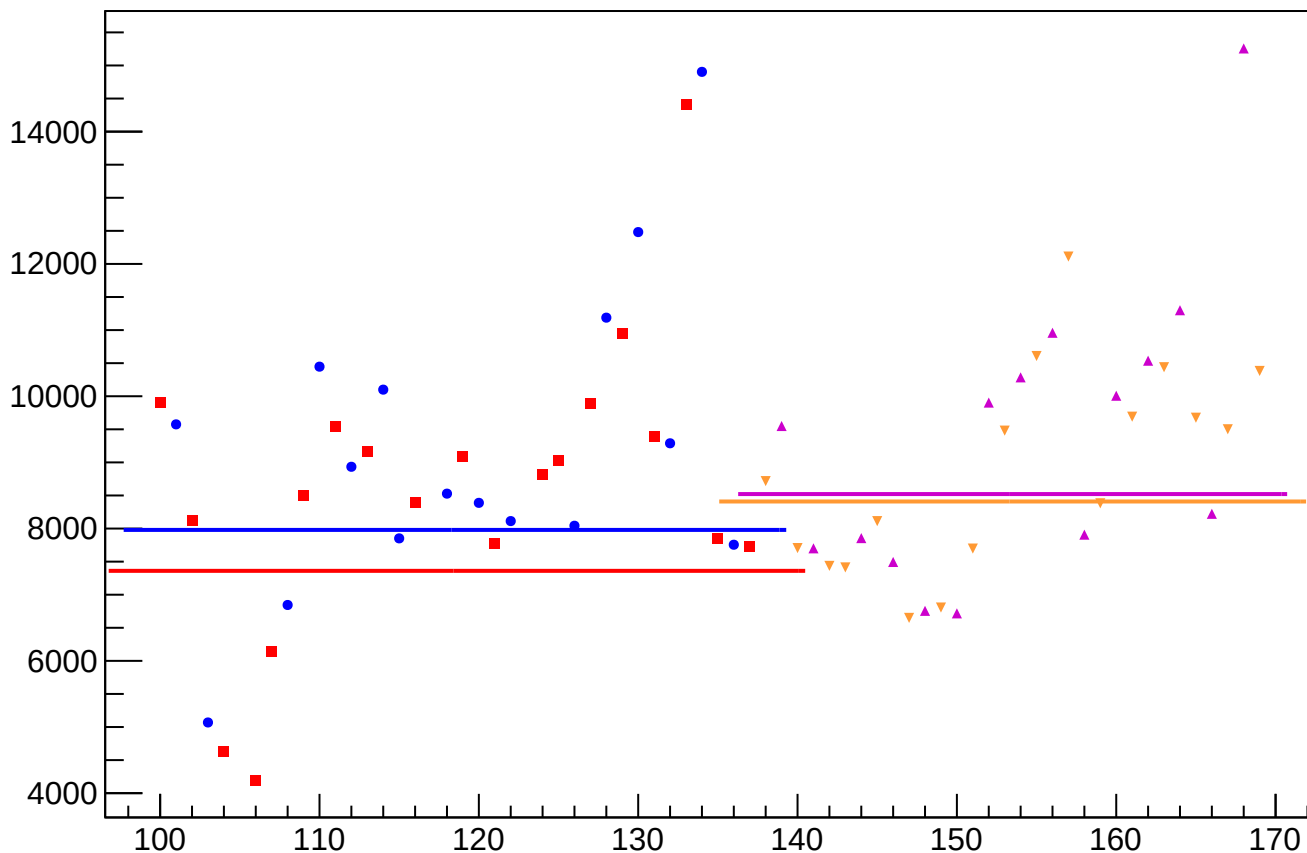
Right: -1825.322 $\pm$ 2091.539 χ^2/NDF : 30.4/34

In: 475.584 $\pm$ 1929.672 χ^2/NDF : 24.8/30

Out: 416.390 $\pm$ 1810.360 χ^2/NDF : 36.1/35

All: 444.100 $\pm$ 1320.284 χ^2/NDF : 60.9/66

asym_atr2_reg_correction_rms vs Slug, Sign Corrected



Right In: 7979.488+/-2.175 χ^2/NDF : 923083.9/15

Left Out: 8409.102+/-1.656 χ^2/NDF : 716095.0/16

Right Out: 7360.741+/-2.017 χ^2/NDF : 1286008.5/18

Left In: 8521.361+/-1.752 χ^2/NDF : 1009967.8/14

Left: 8462.075+/-1.204 χ^2/NDF : 1728230.2/31

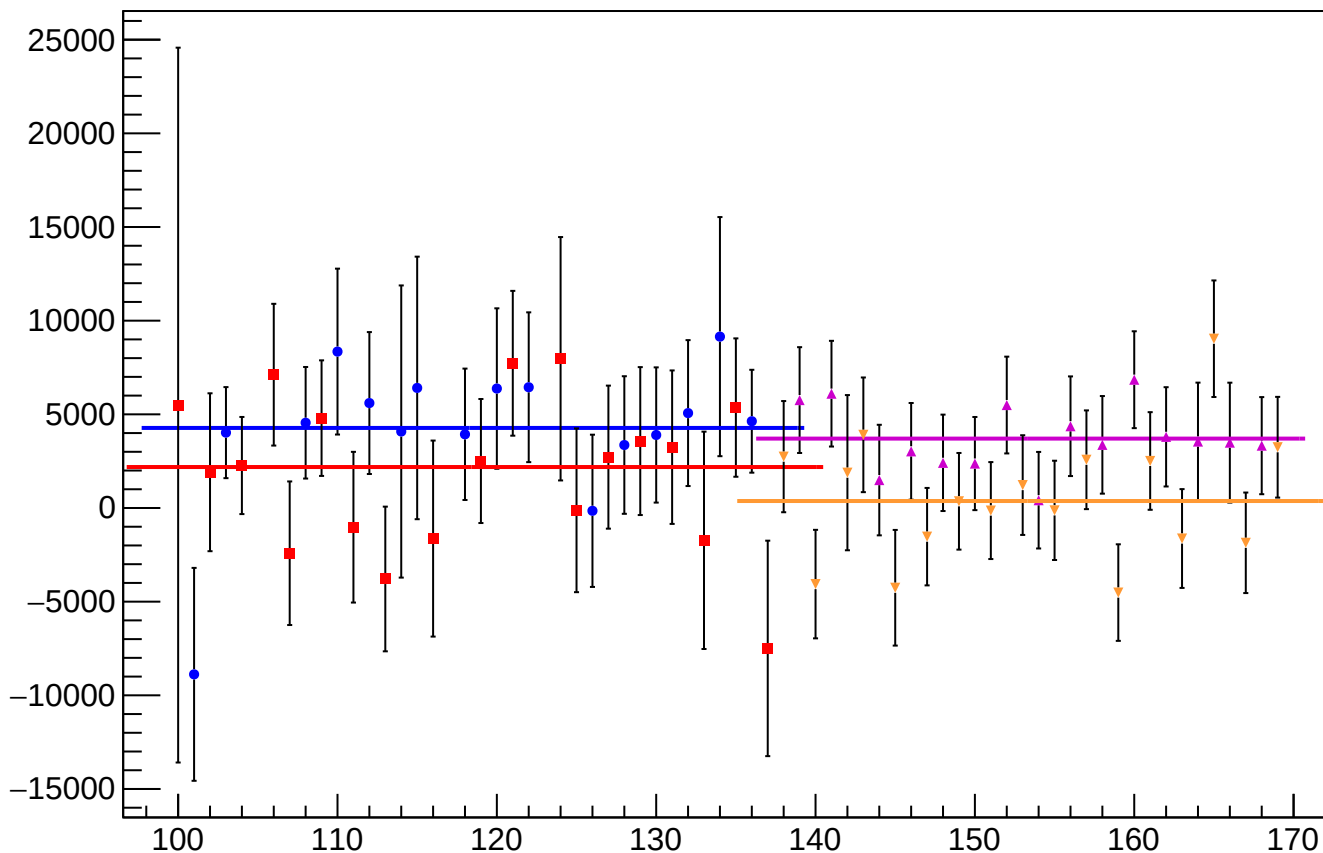
Right: 7646.889+/-1.479 χ^2/NDF : 2252604.4/34

In: 8308.051+/-1.364 χ^2/NDF : 1970695.4/30

Out: 7986.904+/-1.280 χ^2/NDF : 2163429.2/35

All: 8137.243+/-0.934 χ^2/NDF : 4163587.6/66

cor_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4273.903 $\pm$ 951.956 χ^2 /NDF: 8.9/15

Left Out: 372.333 $\pm$ 674.243 χ^2 /NDF:22.5/16

Right Out: 2186.887 $\pm$ 922.111 χ^2 /NDF: 14.8/18

Left In: 3704.517 $\pm$ 697.173 χ^2 /NDF:6.1/14

Left: 1982.726 $\pm$ 484.666 χ^2 /NDF: 40.5/31

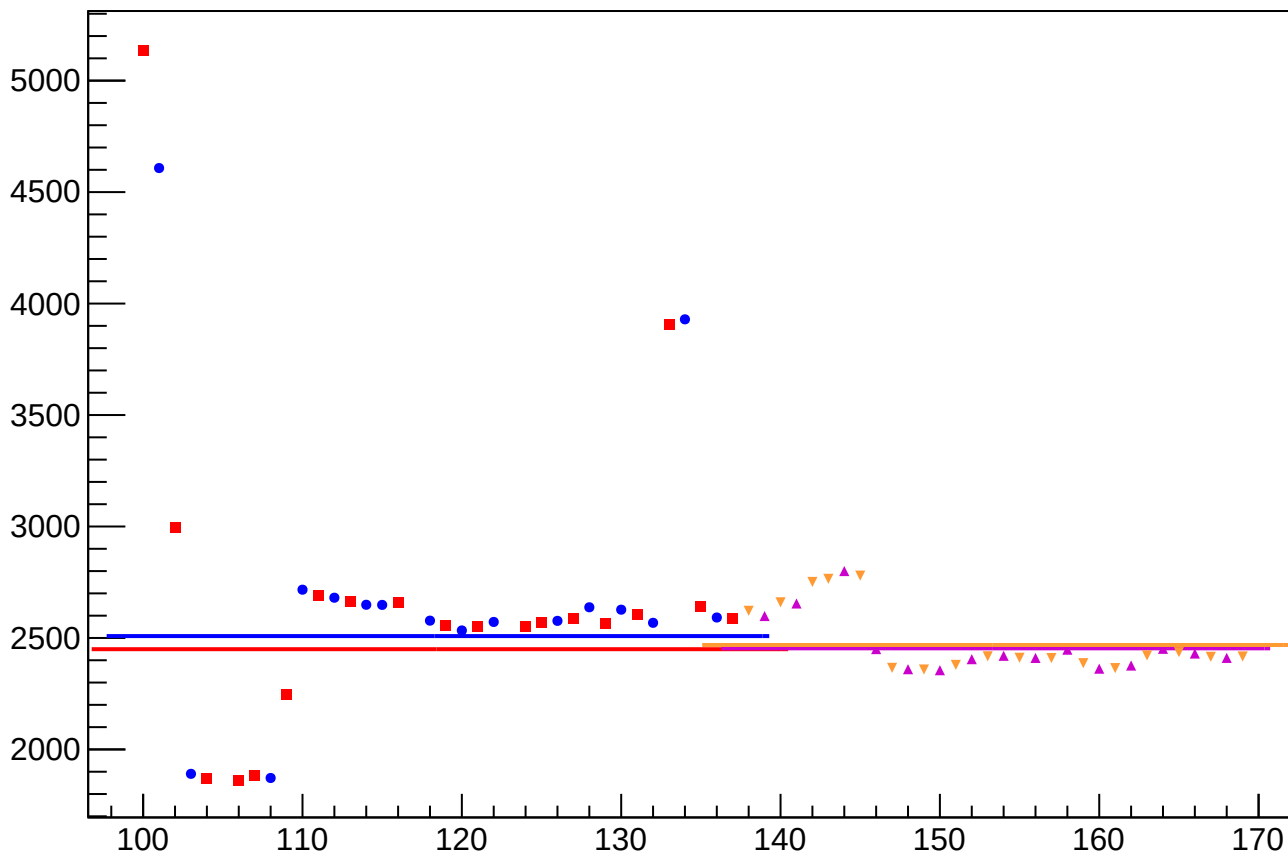
Right: 3197.167 $\pm$ 662.331 χ^2 /NDF: 26.2/34

In: 3903.293 $\pm$ 562.465 χ^2 /NDF:15.2/30

Out: 1004.495 $\pm$ 544.268 χ^2 /NDF:39.9/35

All: 2406.242 $\pm$ 391.131 χ^2 /NDF: 68.8/66

cor_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2508.467 $\pm$ 0.673 χ^2/NDF : 611587.4/15

Left Out: 2468.556 $\pm$ 0.477 χ^2/NDF : 81815.7/16

Right Out: 2449.647 $\pm$ 0.652 χ^2/NDF : 436846.6/18

Left In: 2453.462 $\pm$ 0.493 χ^2/NDF : 55217.4/14

Left: 2461.261 $\pm$ 0.343 χ^2/NDF : 137517.5/31

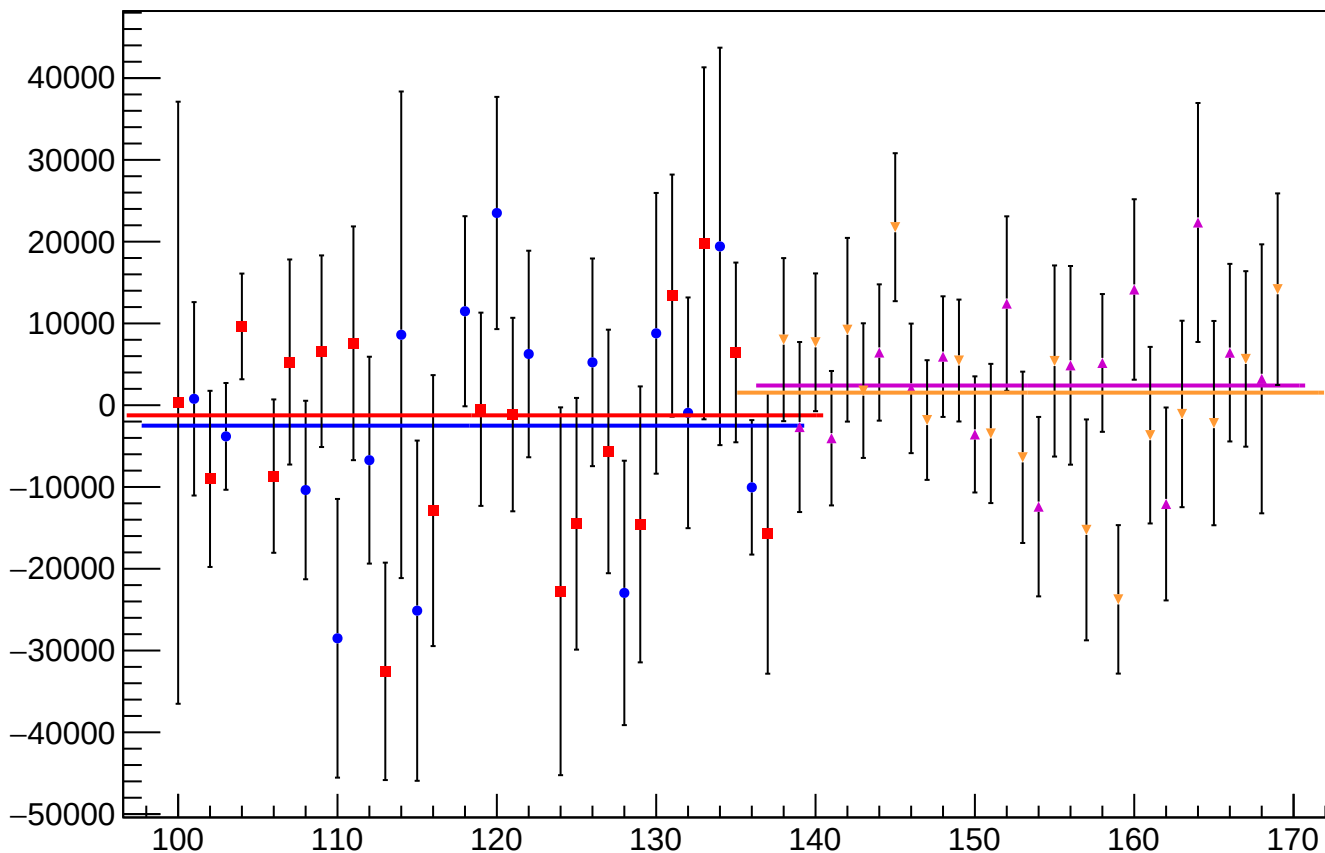
Right: 2478.121 $\pm$ 0.468 χ^2/NDF : 1052373.5/34

In: 2472.665 $\pm$ 0.398 χ^2/NDF : 671151.1/30

Out: 2461.968 $\pm$ 0.385 χ^2/NDF : 519210.3/35

All: 2467.141 $\pm$ 0.277 χ^2/NDF : 1190735.0/60

asym_atr2_cor_correction_mean vs Slug, Sign Corrected



Right In: -2500.380+/-3075.668 χ^2/NDF : 13.8/15

Left Out: 1536.126+/-2342.481 χ^2/NDF : 18.9/16

Right Out: -1239.896+/-2893.464 χ^2/NDF : 16.6/18

Left In: 2407.891+/-2478.121 χ^2/NDF : 9.5/14

Left: 1947.498+/-1702.317 χ^2/NDF : 28.5/31

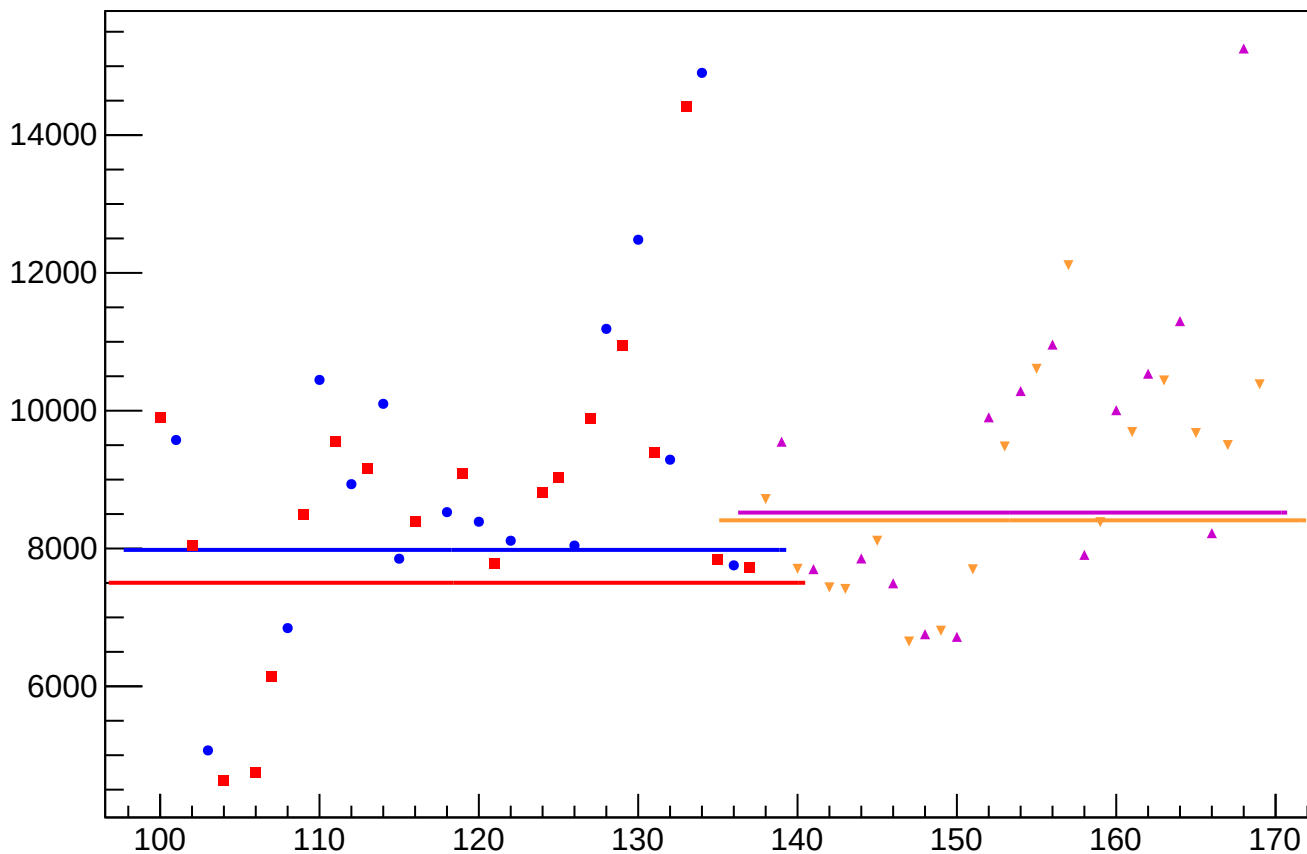
Right: -1831.698+/-2107.459 χ^2/NDF : 30.5/34

In: 475.806+/-1929.693 χ^2/NDF : 24.8/30

Out: 437.039+/-1820.634 χ^2/NDF : 36.1/35

All: 455.296+/-1324.260 χ^2/NDF : 60.9/66

asym_atr2_cor_correction_rms vs Slug, Sign Corrected



Right In: 7979.812 $\pm$ 2.175 χ^2 /NDF: 922785.4/15

Left Out: 8409.087 $\pm$ 1.656 χ^2 /NDF: 716099.8/16

Right Out: 7502.685 $\pm$ 2.046 χ^2 /NDF: 1135523.5/18

Left In: 8521.359 $\pm$ 1.752 χ^2 /NDF: 1009969.7/14

Left: 8462.066 $\pm$ 1.204 χ^2 /NDF: 1728237.5/31

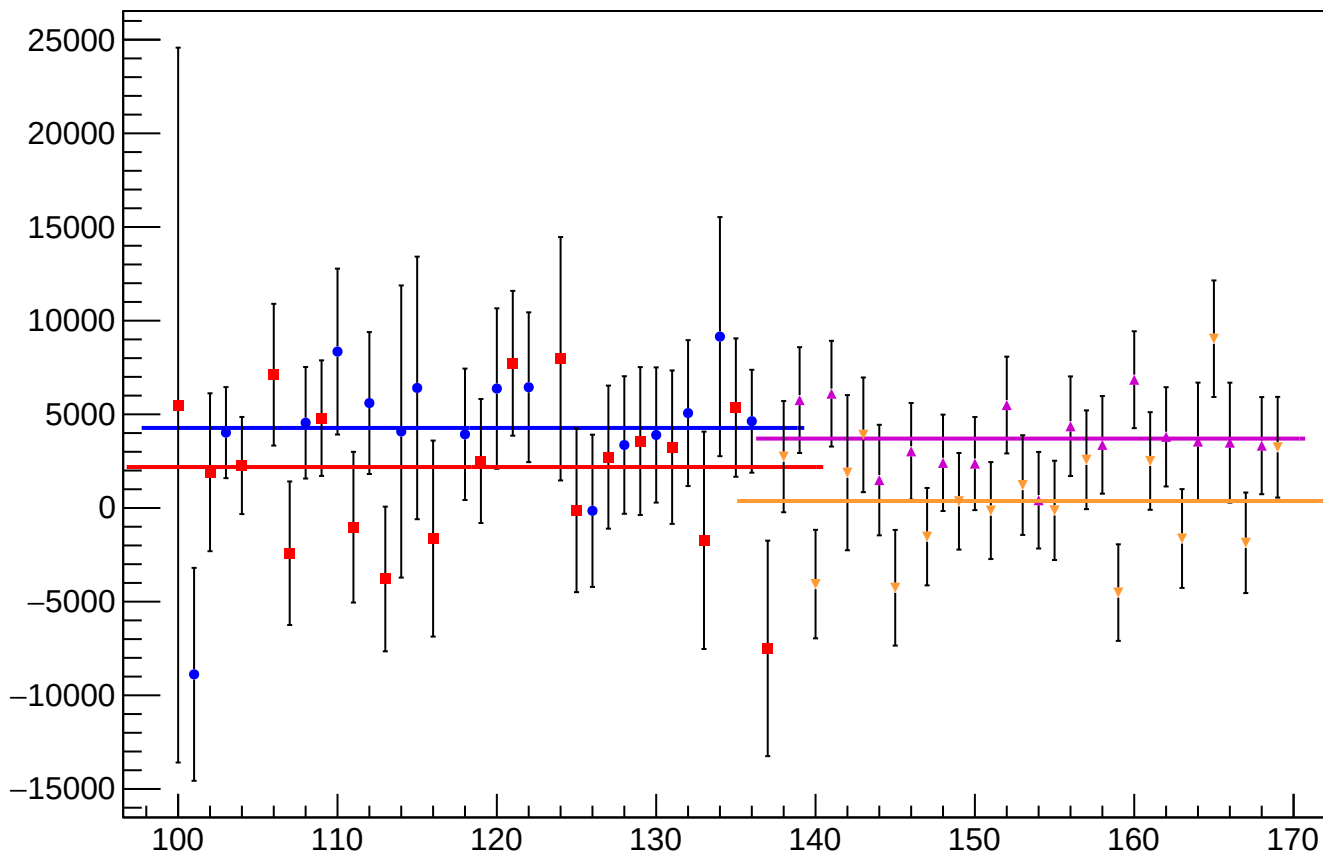
Right: 7726.698 $\pm$ 1.490 χ^2 /NDF: 2083841.8/34

In: 8308.185 $\pm$ 1.364 χ^2 /NDF: 1970352.2/30

Out: 8050.223 $\pm$ 1.287 χ^2 /NDF: 1970180.7/35

All: 8171.709 $\pm$ 0.936 χ^2 /NDF: 3959441.8/66

eigen_cor_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4273.903+/-951.956 χ^2/NDF : 8.9/15

Left Out: 372.333+/-674.243 χ^2/NDF : 22.5/16

Right Out: 2186.887+/-922.111 χ^2/NDF : 14.8/18

Left In: 3704.517+/-697.173 χ^2/NDF : 6.1/14

Left: 1982.726+/-484.666 χ^2/NDF : 40.5/31

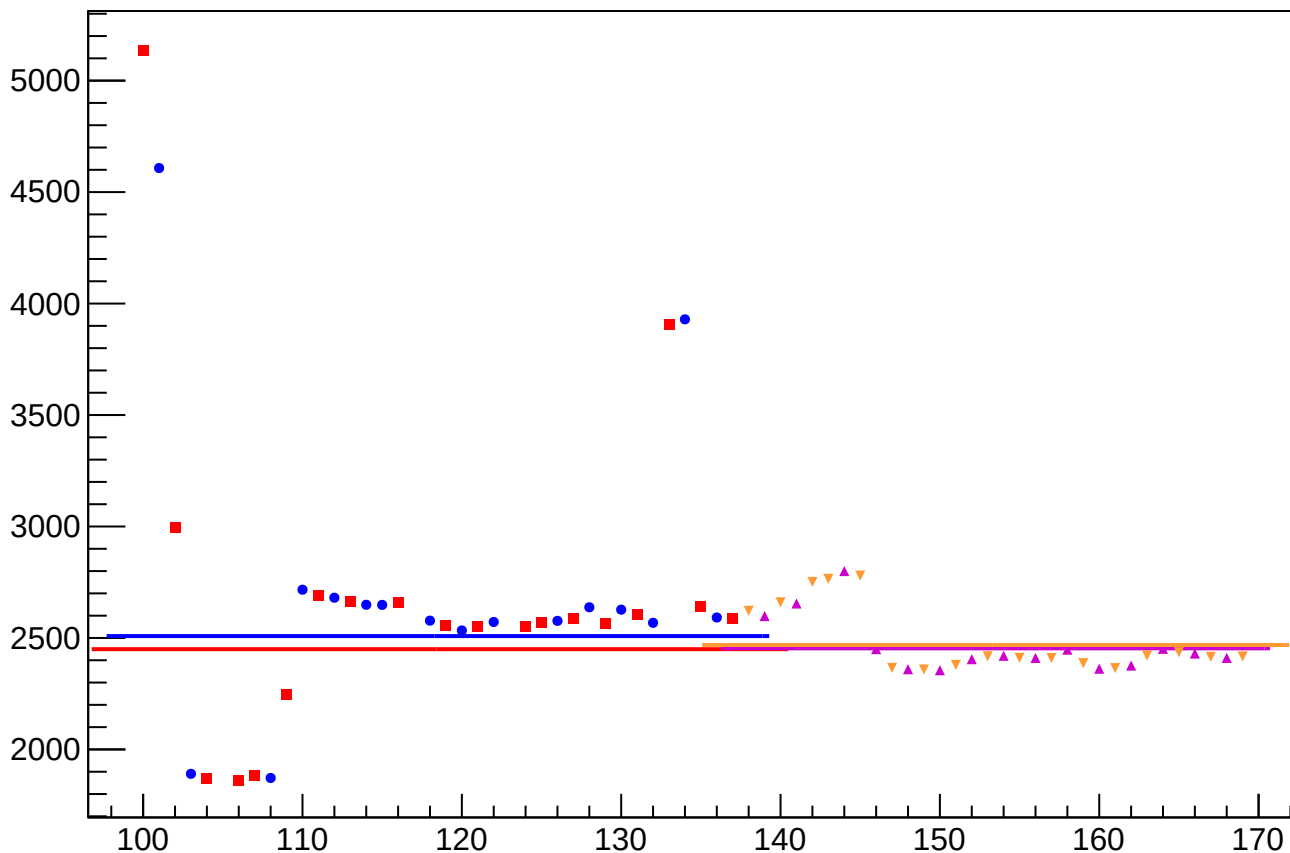
Right: 3197.167+/-662.331 χ^2/NDF : 26.2/34

In: 3903.293+/-562.465 χ^2/NDF : 15.2/30

Out: 1004.495+/-544.268 χ^2/NDF : 39.9/35

All: 2406.242+/-391.131 χ^2/NDF : 68.8/66

eigen_cor_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2508.467+/-0.673 χ^2/NDF : 611587.4/15

Left Out: 2468.556+/-0.477 χ^2/NDF : 81815.7/16

Right Out: 2449.647+/-0.652 χ^2/NDF : 436846.6/18

Left In: 2453.462+/-0.493 χ^2/NDF : 55217.4/14

Left: 2461.261+/-0.343 χ^2/NDF : 137517.5/31

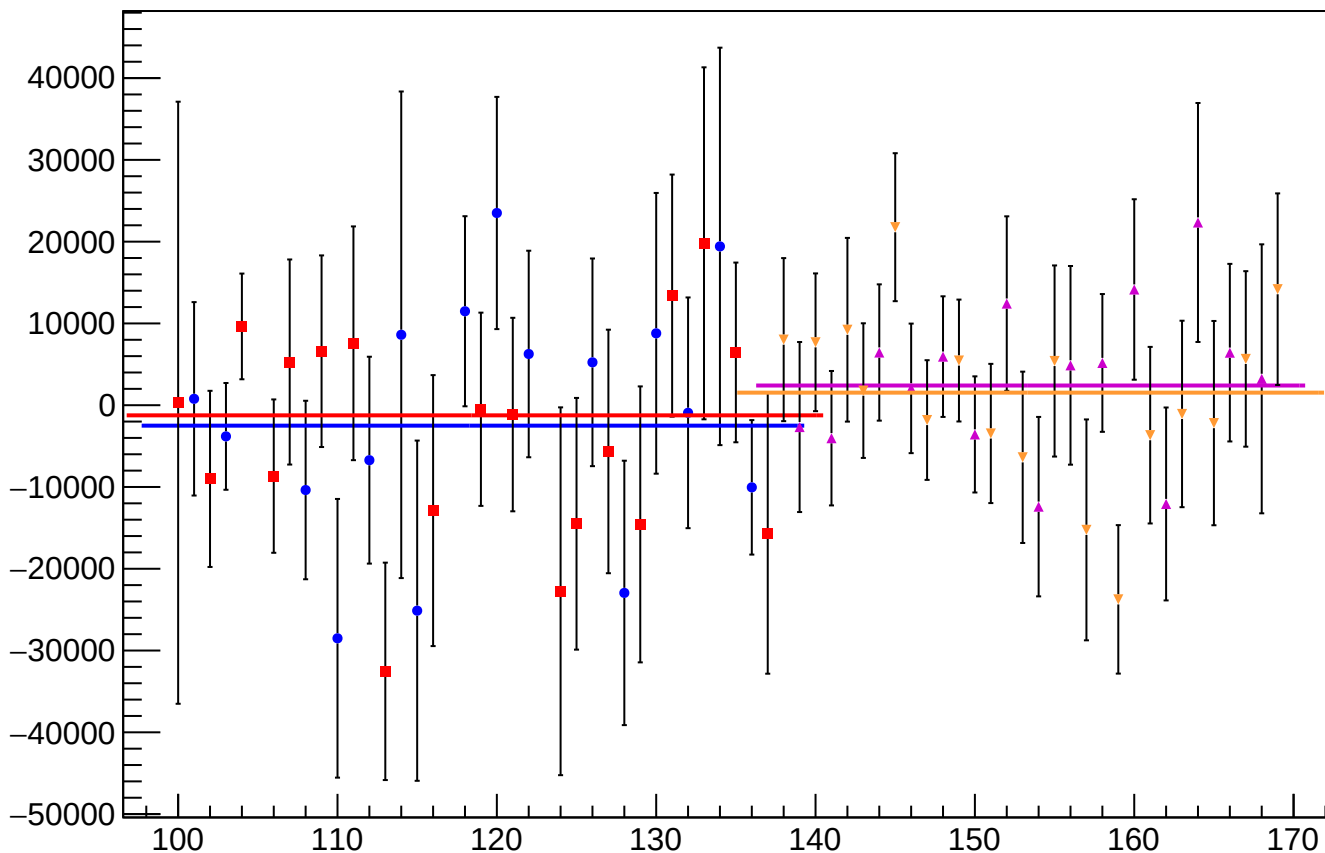
Right: 2478.121+/-0.468 χ^2/NDF : 1052373.5/34

In: 2472.665+/-0.398 χ^2/NDF : 671151.1/30

Out: 2461.968+/-0.385 χ^2/NDF : 519210.3/35

All: 2467.141+/-0.277 χ^2/NDF : 1190735.0/60

asym_atr2_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -2500.380 ± 3075.668 $\chi^2/\text{NDF}: 13.8/15$

Left Out: 1536.126 ± 2342.481 $\chi^2/\text{NDF}: 18.9/16$

Right Out: -1239.896 ± 2893.464 $\chi^2/\text{NDF}: 16.6/18$

Left In: 2407.891 ± 2478.121 $\chi^2/\text{NDF}: 9.5/14$

Left: 1947.498 ± 1702.317 $\chi^2/\text{NDF}: 28.5/31$

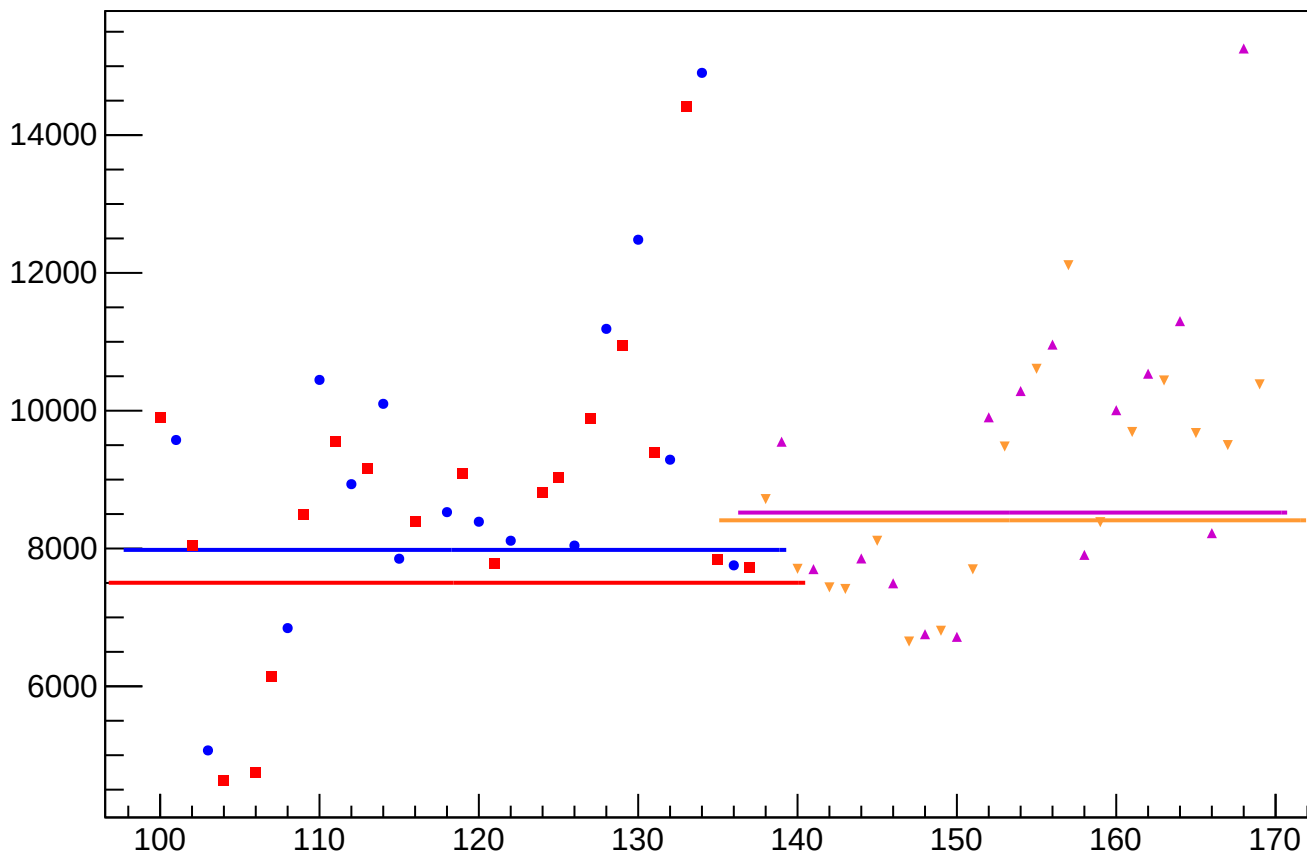
Right: -1831.698 ± 2107.459 $\chi^2/\text{NDF}: 30.5/34$

In: 475.806 ± 1929.693 $\chi^2/\text{NDF}: 24.8/30$

Out: 437.039 ± 1820.634 $\chi^2/\text{NDF}: 36.1/35$

All: 455.296 ± 1324.260 $\chi^2/\text{NDF}: 60.9/66$

asym_atr2_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 7979.812 $\pm$ 2.175 χ^2 /NDF: 922785.4/15

Left Out: 8409.087 $\pm$ 1.656 χ^2 /NDF: 716099.8/16

Right Out: 7502.685 $\pm$ 2.046 χ^2 /NDF: 1135523.5/18

Left In: 8521.359 $\pm$ 1.752 χ^2 /NDF: 1009969.7/14

Left: 8462.066 $\pm$ 1.204 χ^2 /NDF: 1728237.5/31

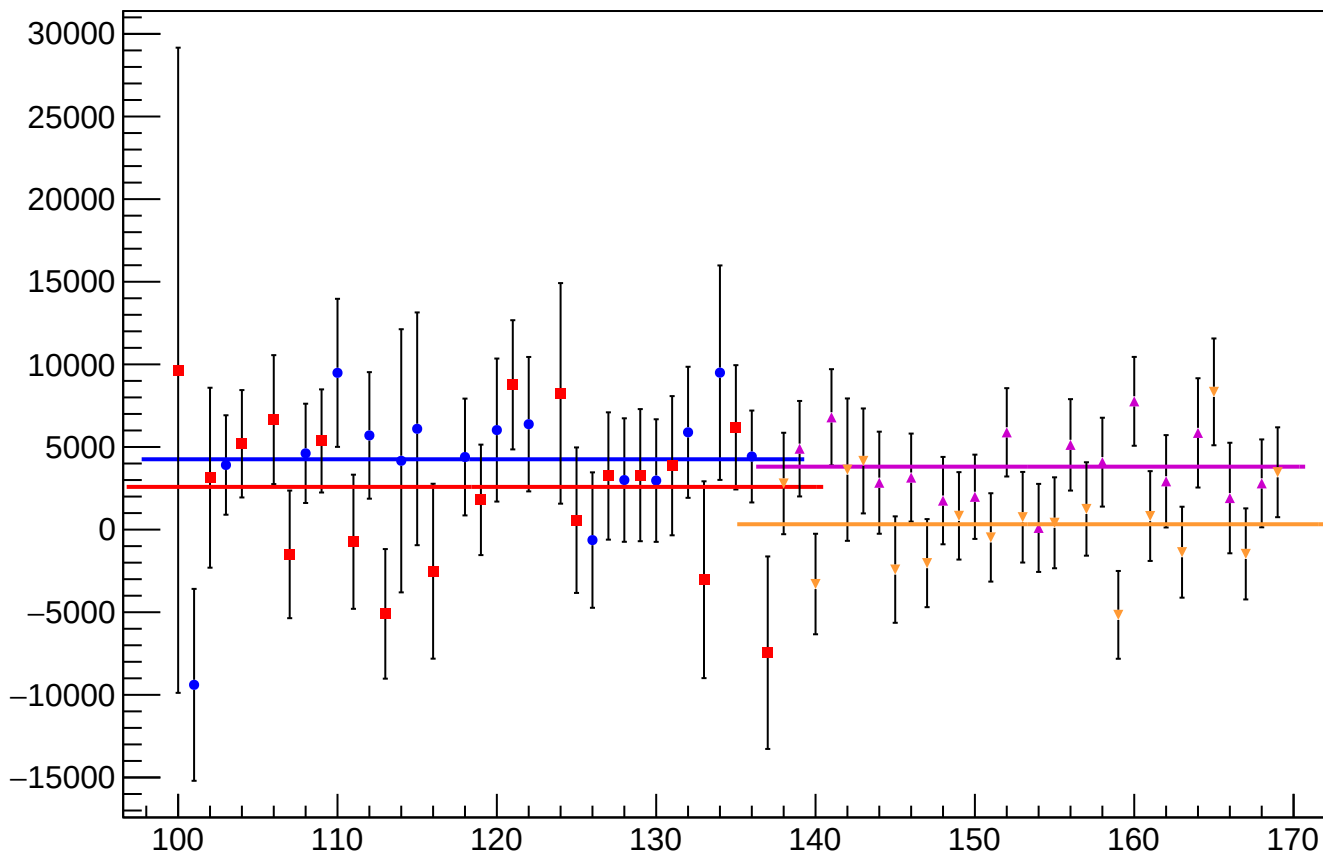
Right: 7726.698 $\pm$ 1.490 χ^2 /NDF: 2083841.8/34

In: 8308.185 $\pm$ 1.364 χ^2 /NDF: 1970352.2/30

Out: 8050.223 $\pm$ 1.287 χ^2 /NDF: 1970180.7/35

All: 8171.709 $\pm$ 0.936 χ^2 /NDF: 3959441.8/66

dit_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4256.977+/-990.542 χ^2/NDF : 10.1/15

Left Out: 324.978+/-698.605 χ^2/NDF : 18.4/16

Right Out: 2584.689+/-966.049 χ^2/NDF : 17.6/18

Left In: 3809.242+/-721.946 χ^2/NDF : 8.4/14

Left: 2009.876+/-502.037 χ^2/NDF : 38.8/31

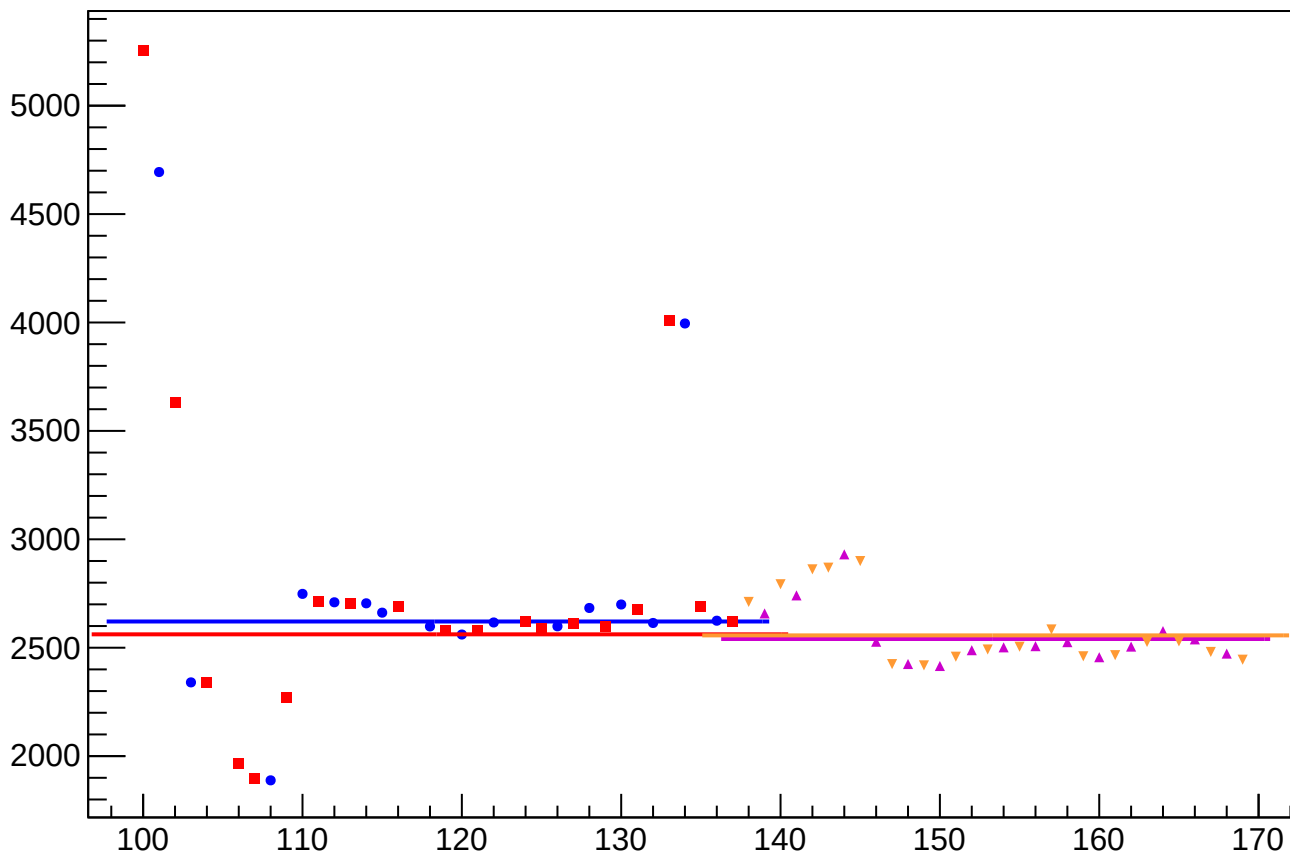
Right: 3399.902+/-691.597 χ^2/NDF : 29.1/34

In: 3964.570+/-583.429 χ^2/NDF : 18.5/30

Out: 1100.923+/-566.093 χ^2/NDF : 39.7/35

All: 2489.571+/-406.279 χ^2/NDF : 70.6/66

dit_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2620.964 $\pm$ 0.700 χ^2 /NDF: 485914.1/15

Left Out: 2556.905 $\pm$ 0.494 χ^2 /NDF: 94435.1/16

Right Out: 2561.718 $\pm$ 0.683 χ^2 /NDF: 378259.5/18

Left In: 2540.206 $\pm$ 0.510 χ^2 /NDF: 58726.6/14

Left: 2548.830 $\pm$ 0.355 χ^2 /NDF: 153714.3/31

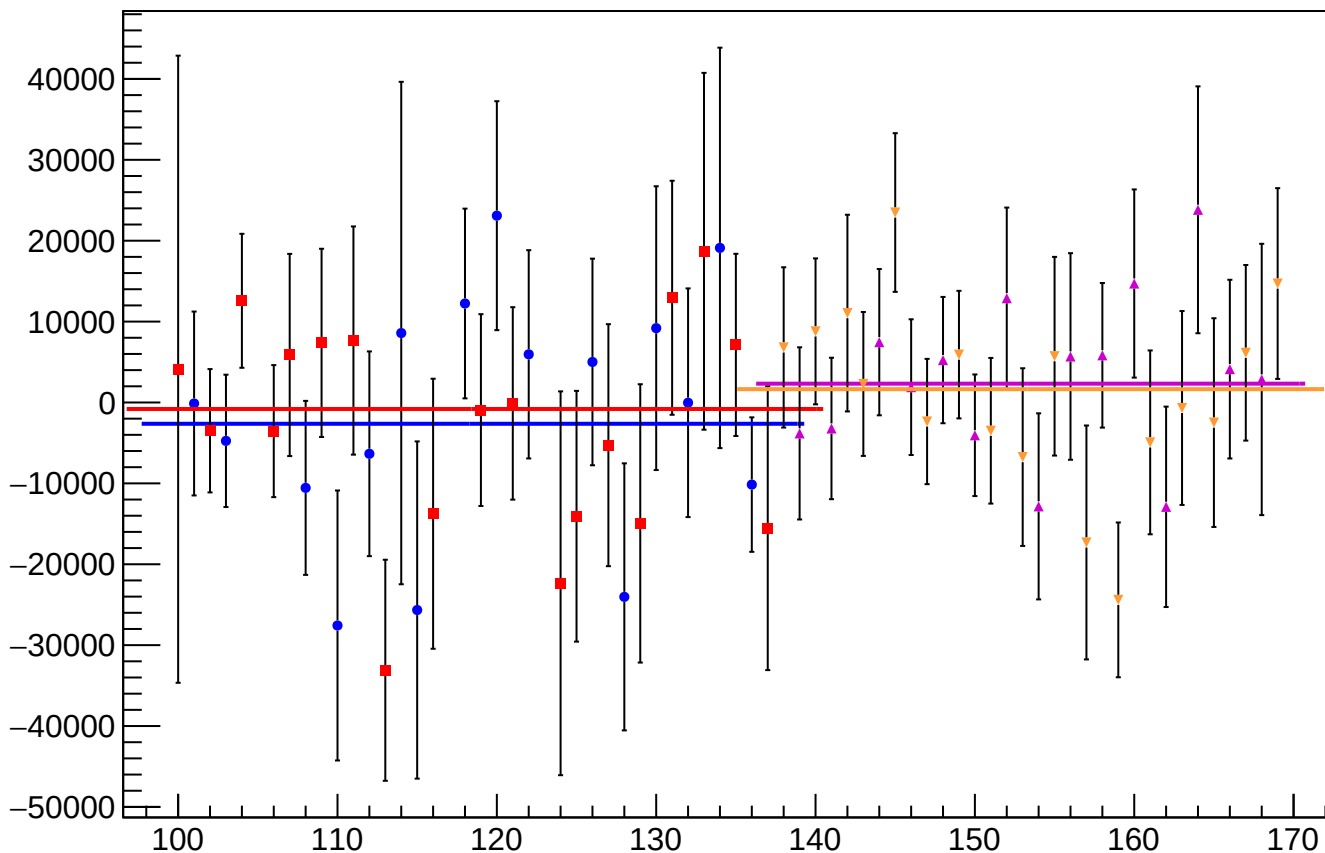
Right: 2590.582 $\pm$ 0.489 χ^2 /NDF: 867842.6/34

In: 2568.222 $\pm$ 0.413 χ^2 /NDF: 553322.8/30

Out: 2558.559 $\pm$ 0.400 χ^2 /NDF: 472727.2/35

All: 2563.244 $\pm$ 0.287 χ^2 /NDF: 1026332.6/66

asym_atr2_dit_correction_mean vs Slug, Sign Corrected



Right In: -2631.921 ± 3211.506 $\chi^2/\text{NDF}: 13.8/15$

Left Out: 1646.113 ± 2466.470 $\chi^2/\text{NDF}: 19.0/16$

Right Out: -802.880 ± 2872.934 $\chi^2/\text{NDF}: 15.4/18$

Left In: 2326.576 ± 2611.989 $\chi^2/\text{NDF}: 9.4/14$

Left: 1966.862 ± 1793.296 $\chi^2/\text{NDF}: 28.5/31$

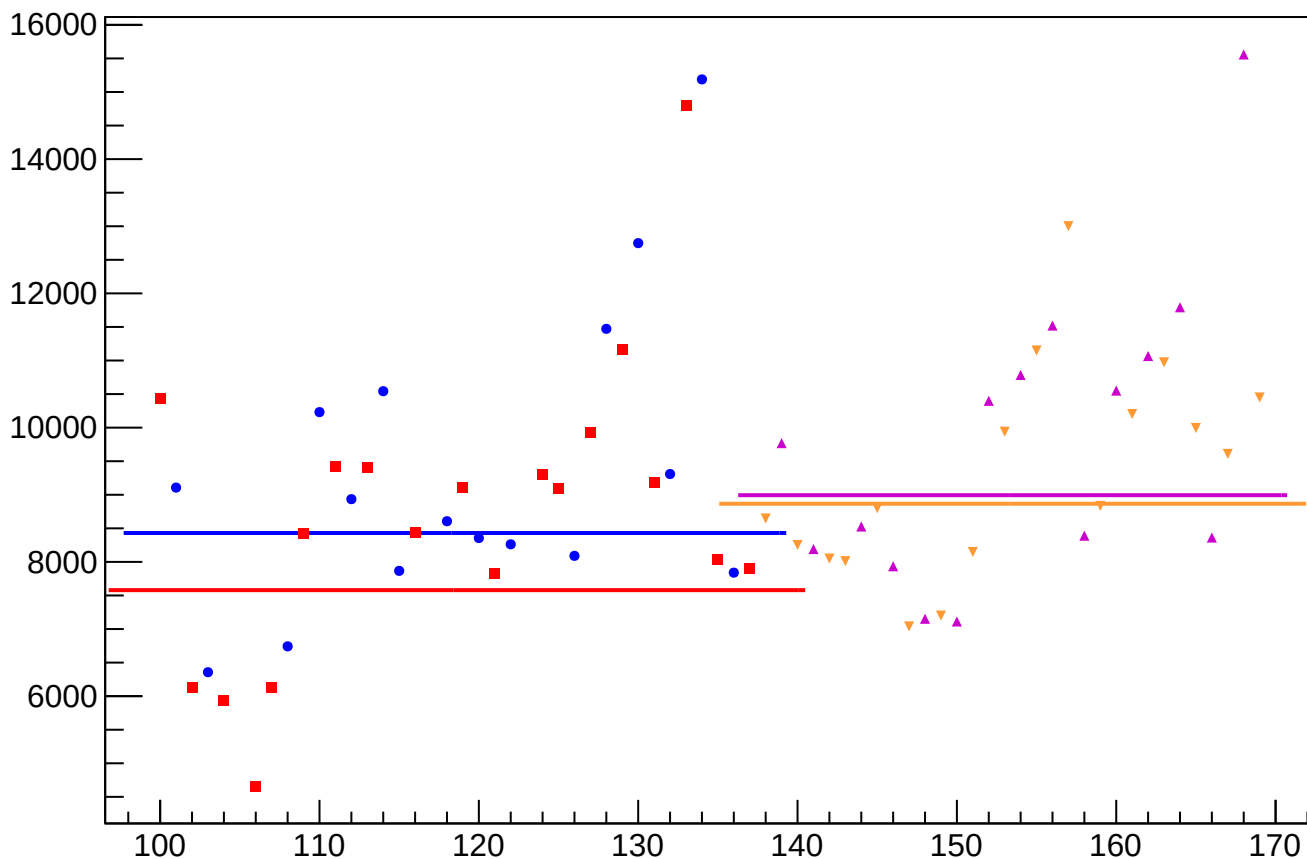
Right: -1615.936 ± 2141.201 $\chi^2/\text{NDF}: 29.4/34$

In: 352.441 ± 2026.386 $\chi^2/\text{NDF}: 24.7/30$

Out: 606.973 ± 1871.410 $\chi^2/\text{NDF}: 34.9/35$

All: 489.811 ± 1374.814 $\chi^2/\text{NDF}: 59.5/66$

asym_atr2_dit_correction_rms vs Slug, Sign Corrected



Right In: 8430.768+/-2.271 χ^2/NDF : 580295.1/15

Left Out: 8866.327+/-1.744 χ^2/NDF : 653282.7/16

Right Out: 7579.112+/-2.031 χ^2/NDF : 974126.9/18

Left In: 8993.912+/-1.847 χ^2/NDF : 940641.7/14

Left: 8926.467+/-1.268 χ^2/NDF : 1596446.9/31

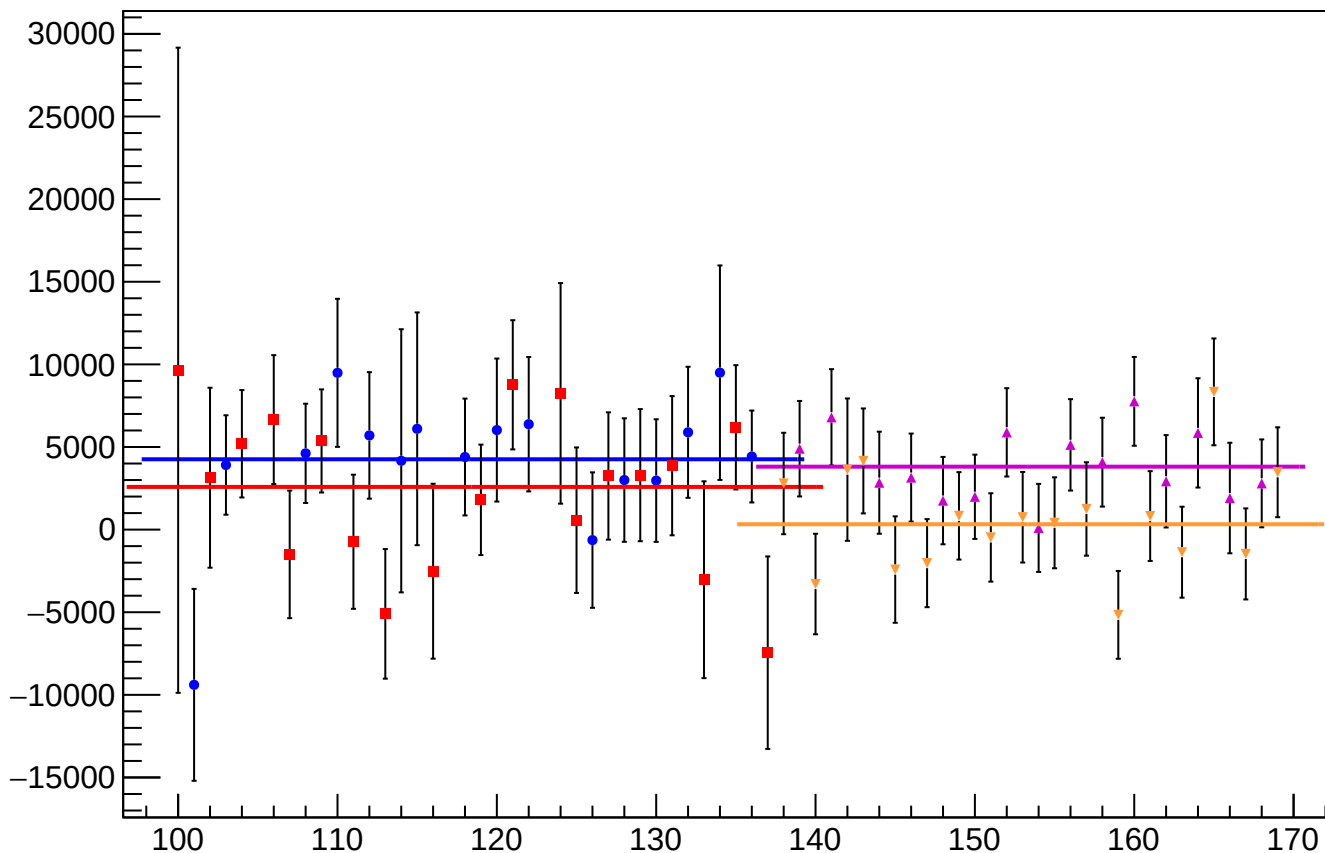
Right: 7957.695+/-1.514 χ^2/NDF : 1632549.6/34

In: 8769.707+/-1.433 χ^2/NDF : 1557949.7/30

Out: 8320.145+/-1.323 χ^2/NDF : 1858545.5/35

All: 8527.080+/-0.972 χ^2/NDF : 3469622.0/66

eigen_dit_asym_atr2_mean vs Slug, Sign Corrected



Right In: 4256.984+/-990.541 χ^2/NDF : 10.1/15

Left Out: 324.961+/-698.606 χ^2/NDF : 18.4/16

Right Out: 2584.699+/-966.048 χ^2/NDF : 17.6/18

Left In: 3809.247+/-721.947 χ^2/NDF : 8.4/14

Left: 2009.869+/-502.038 χ^2/NDF : 38.8/31

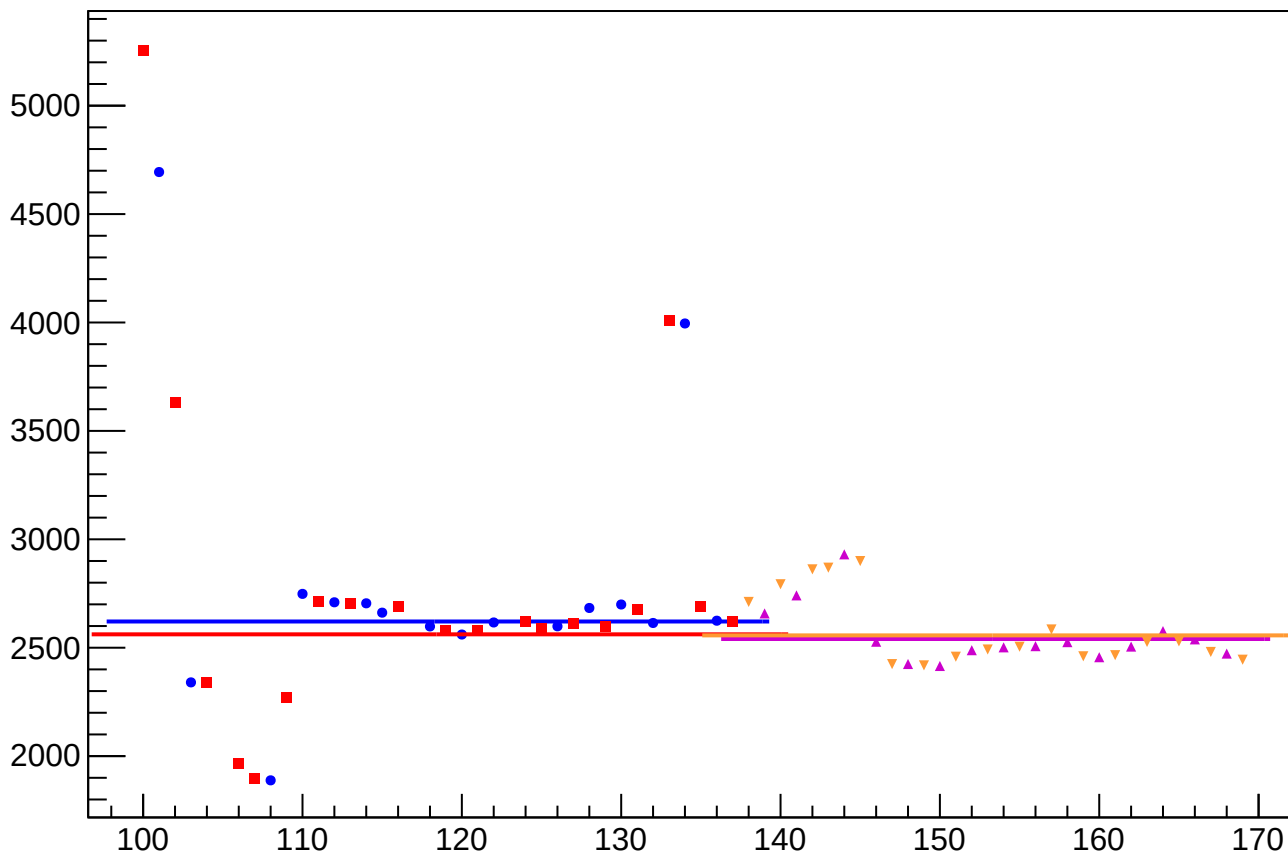
Right: 3399.911+/-691.596 χ^2/NDF : 29.1/34

In: 3964.576+/-583.429 χ^2/NDF : 18.5/30

Out: 1100.916+/-566.094 χ^2/NDF : 39.7/35

All: 2489.571+/-406.279 χ^2/NDF : 70.6/66

eigen_dit_asym_atr2_rms vs Slug, Sign Corrected



Right In: 2620.963 $\pm$ 0.700 χ^2 /NDF: 485914.3/15

Left Out: 2556.908 $\pm$ 0.494 χ^2 /NDF:94435.1/16

Right Out: 2561.718 $\pm$ 0.683 χ^2 /NDF: 378258.9/18

Left In: 2540.208 $\pm$ 0.510 χ^2 /NDF:58726.2/14

Left: 2548.832 $\pm$ 0.355 χ^2 /NDF: 153713.9/31

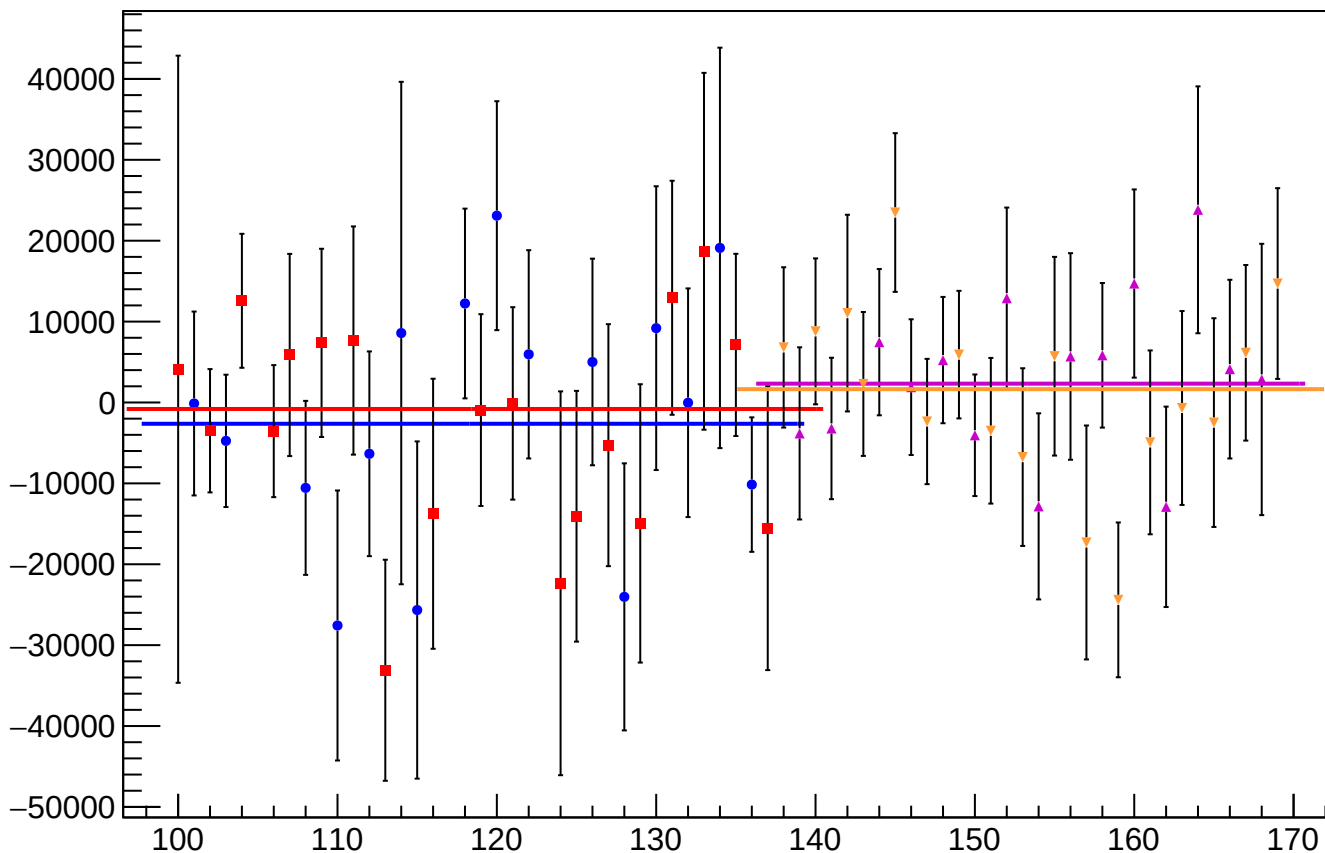
Right: 2590.582 $\pm$ 0.489 χ^2 /NDF: 867842.2/34

In: 2568.224 $\pm$ 0.413 χ^2 /NDF:553321.8/30

Out: 2558.561 $\pm$ 0.400 χ^2 /NDF:472726.6/35

All: 2563.246 $\pm$ 0.287 χ^2 /NDF: 1026331.1/60

asym_atr2_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -2631.887 ± 3211.501 χ^2/NDF : 13.8/15

Left Out: 1646.107 ± 2466.474 χ^2/NDF : 19.0/16

Right Out: -802.875 ± 2872.930 χ^2/NDF : 15.4/18

Left In: 2326.573 ± 2611.994 χ^2/NDF : 9.4/14

Left: 1966.858 ± 1793.299 χ^2/NDF : 28.5/31

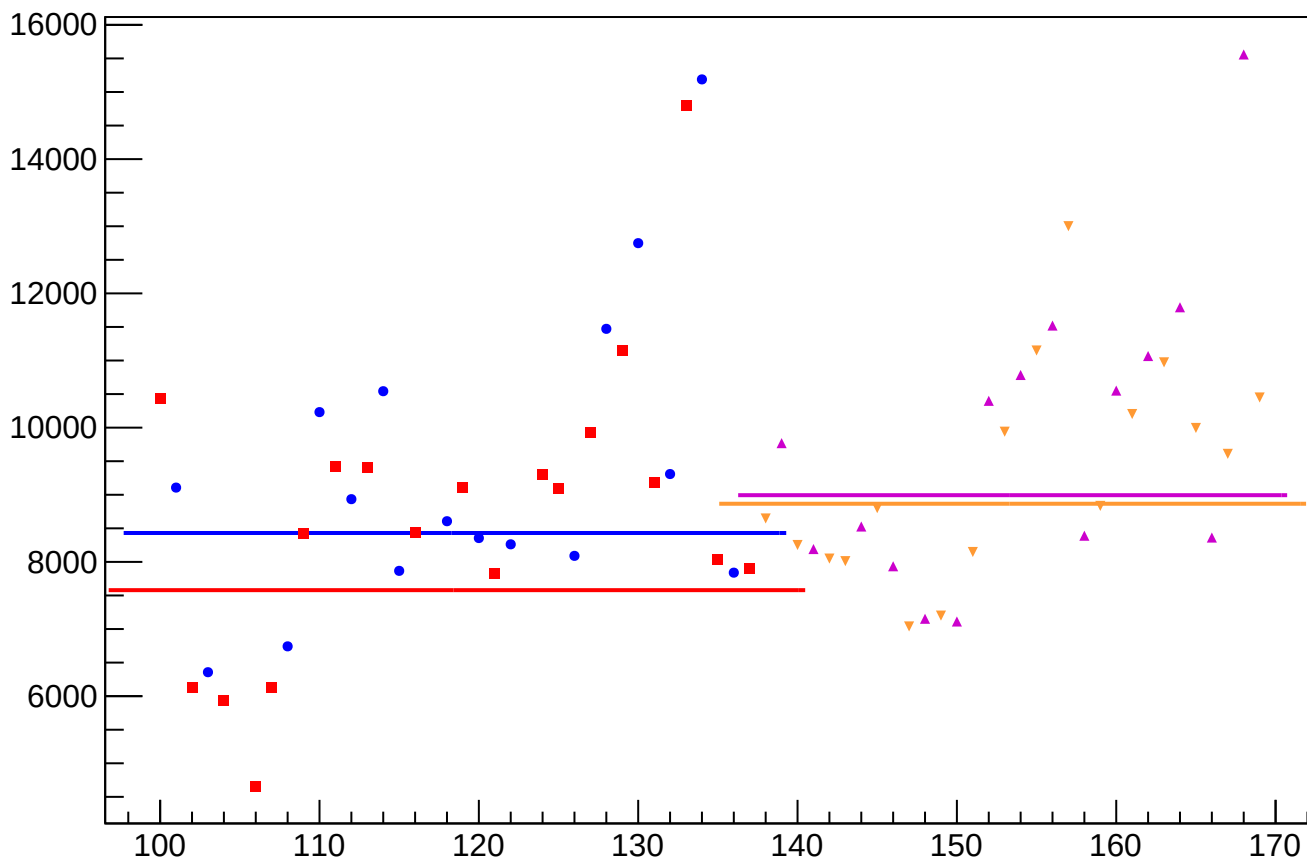
Right: -1615.919 ± 2141.198 χ^2/NDF : 29.4/34

In: 352.445 ± 2026.387 χ^2/NDF : 24.7/30

Out: 606.968 ± 1871.410 χ^2/NDF : 34.9/35

All: 489.810 ± 1374.815 χ^2/NDF : 59.5/66

asym_atr2_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 8430.758+/-2.271 χ^2/NDF : 580289.4/15

Left Out: 8866.342+/-1.744 χ^2/NDF : 653282.9/16

Right Out: 7579.100+/-2.031 χ^2/NDF : 974123.2/18

Left In: 8993.927+/-1.847 χ^2/NDF : 940642.1/14

Left: 8926.481+/-1.268 χ^2/NDF : 1596447.5/31

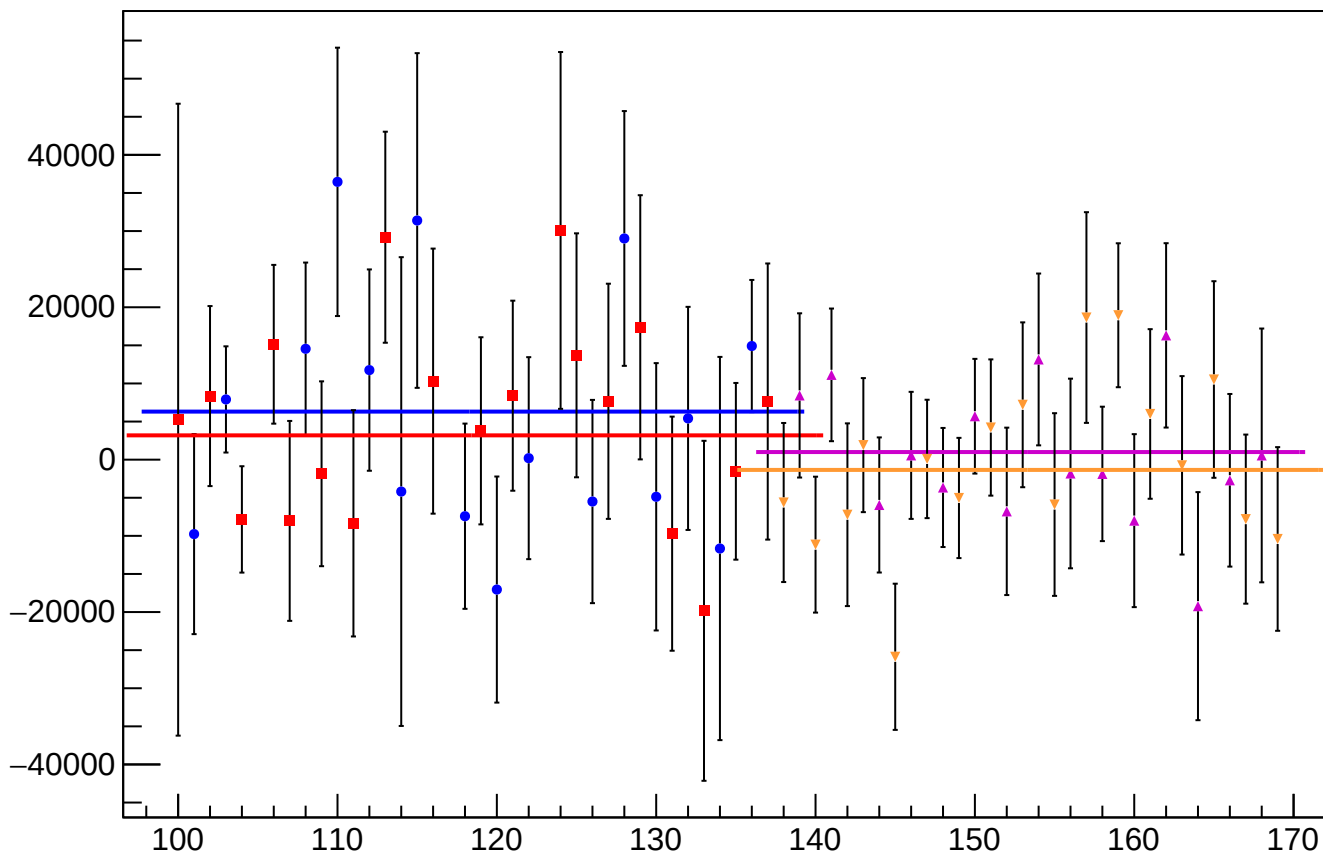
Right: 7957.685+/-1.514 χ^2/NDF : 1632540.7/34

In: 8769.711+/-1.433 χ^2/NDF : 1557947.6/30

Out: 8320.146+/-1.323 χ^2/NDF : 1858551.4/35

All: 8527.082+/-0.972 χ^2/NDF : 3469626.4/66

asym_atr2_mean vs Slug, Sign Corrected



Right In: 6307.034+/-3239.703 χ^2/NDF : 15.1/15

Left Out: -1345.676+/-2454.598 χ^2/NDF : 18.6/16

Right Out: 3189.356+/-3068.645 χ^2/NDF : 13.9/18

Left In: 998.145+/-2591.820 χ^2/NDF : 9.2/14

Left: -237.451+/-1782.200 χ^2/NDF : 28.2/31

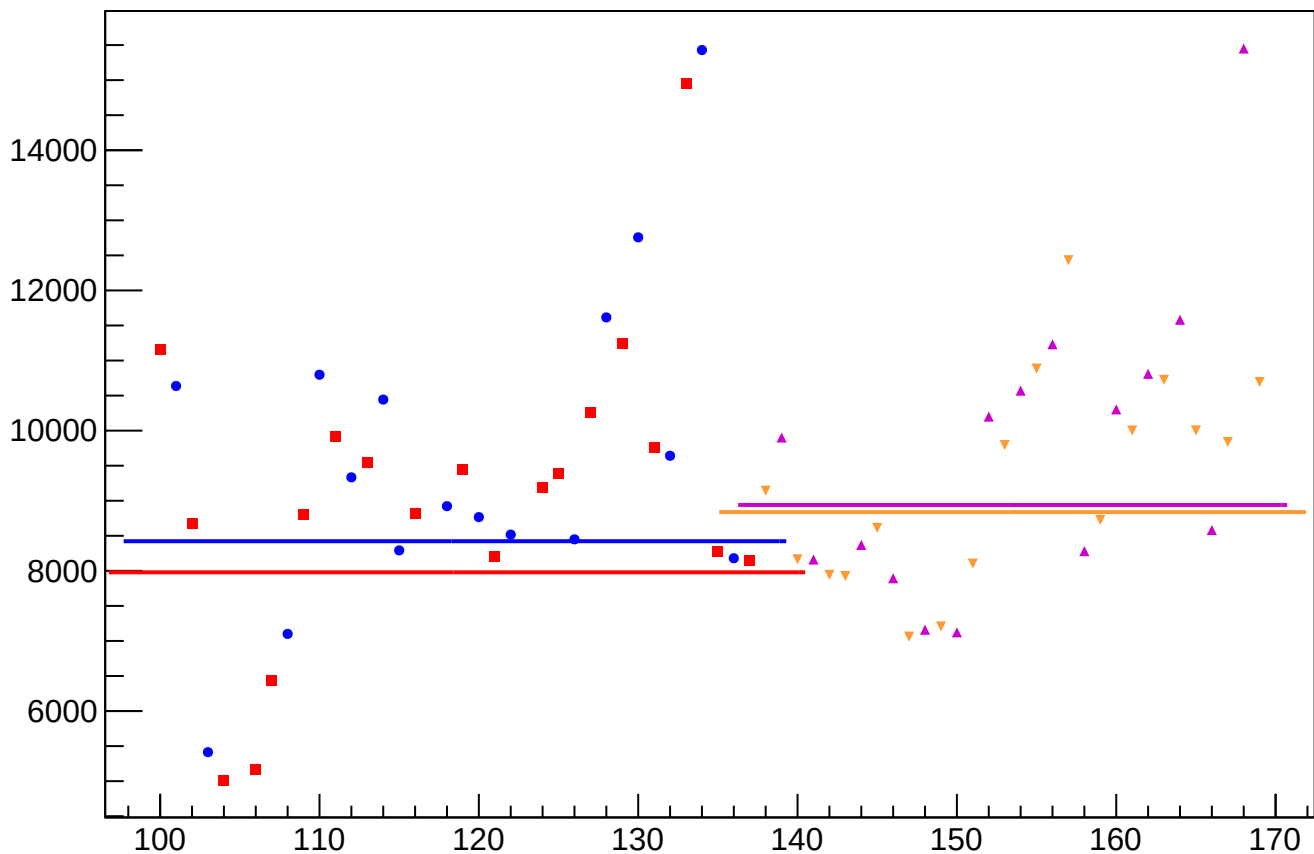
Right: 4663.718+/-2227.879 χ^2/NDF : 29.5/34

In: 3069.962+/-2023.854 χ^2/NDF : 25.9/30

Out: 423.813+/-1916.816 χ^2/NDF : 33.8/35

All: 1675.065+/-1391.696 χ^2/NDF : 60.6/66

asym_atr2_rms vs Slug, Sign Corrected



Right In: 8422.717+/-2.291 χ^2 /NDF: 881833.9/15

Left Out: 8838.190+/-1.736 χ^2 /NDF: 613442.2/16

Right Out: 7978.997+/-2.170 χ^2 /NDF: 1016019.0/18

Left In: 8939.985+/-1.833 χ^2 /NDF: 885730.1/14

Left: 8886.322+/-1.260 χ^2 /NDF: 1500798.6/31

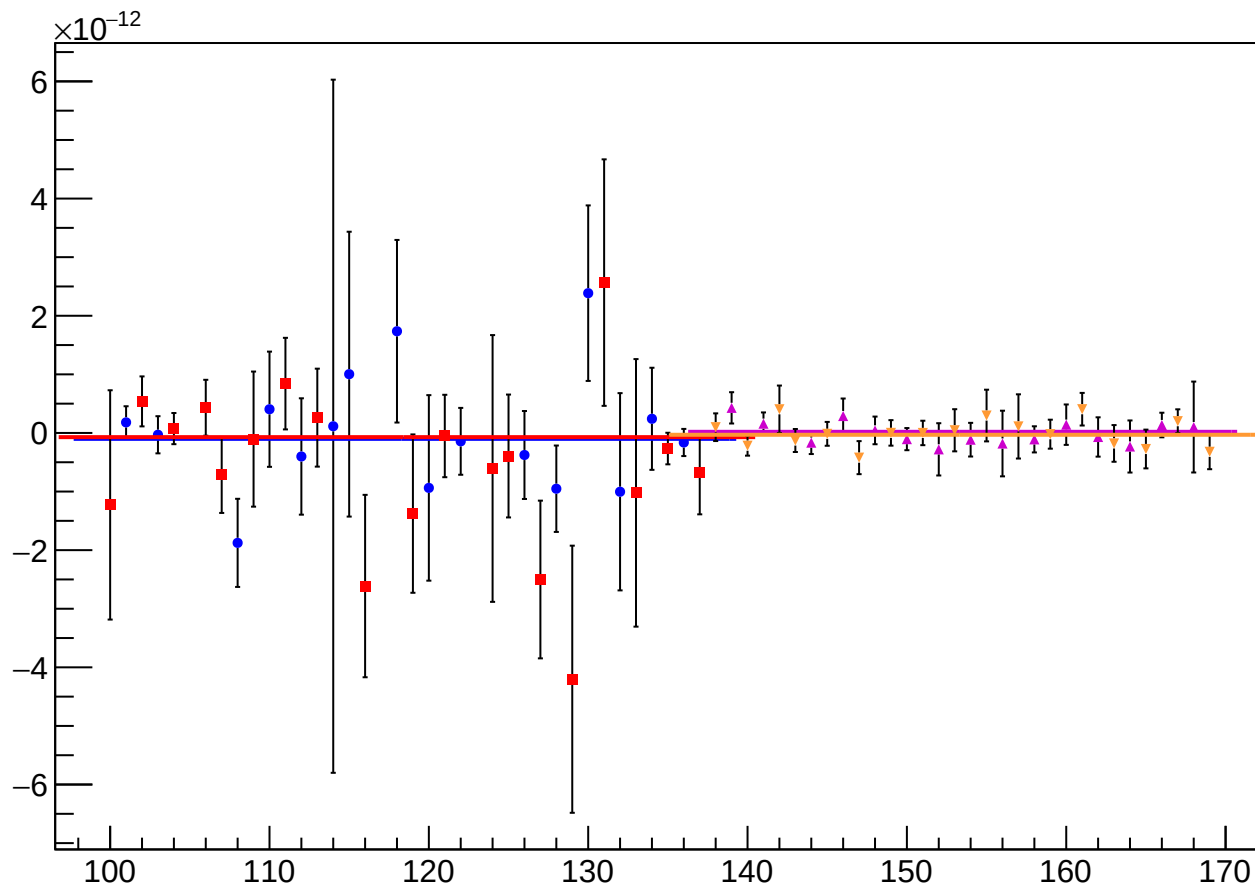
Right: 8188.830+/-1.575 χ^2 /NDF: 1917628.8/34

In: 8738.119+/-1.431 χ^2 /NDF: 1798652.3/30

Out: 8502.941+/-1.355 χ^2 /NDF: 1725076.7/35

All: 8614.146+/-0.984 χ^2 /NDF: 3537965.3/66

asym_atr2_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 13.6/15

Left Out: -0.000+/-0.000 χ^2 /NDF:11.0/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 19.6/18

Left In: 0.000+/-0.000 χ^2 /NDF:7.0/14

Left: -0.000+/-0.000 χ^2 /NDF: 18.3/31

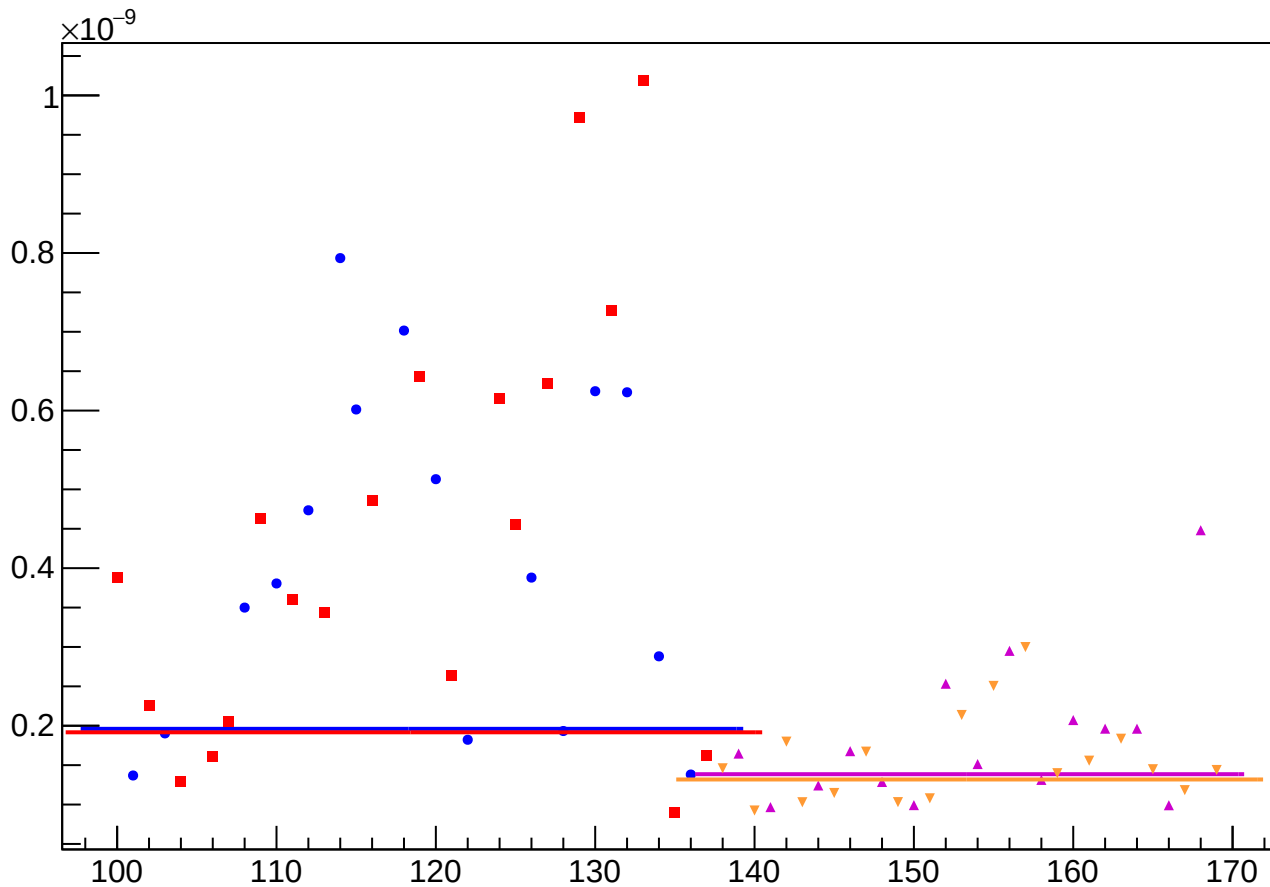
Right: -0.000+/-0.000 χ^2 /NDF: 33.3/34

In: -0.000+/-0.000 χ^2 /NDF:21.3/30

Out: -0.000+/-0.000 χ^2 /NDF:30.7/35

All: -0.000+/-0.000 χ^2 /NDF: 52.1/66

asym_atr2_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1342263.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 816291.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2066454.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 1090108.5/14

Left: 0.000+/-0.000 χ^2/NDF : 1917020.4/31

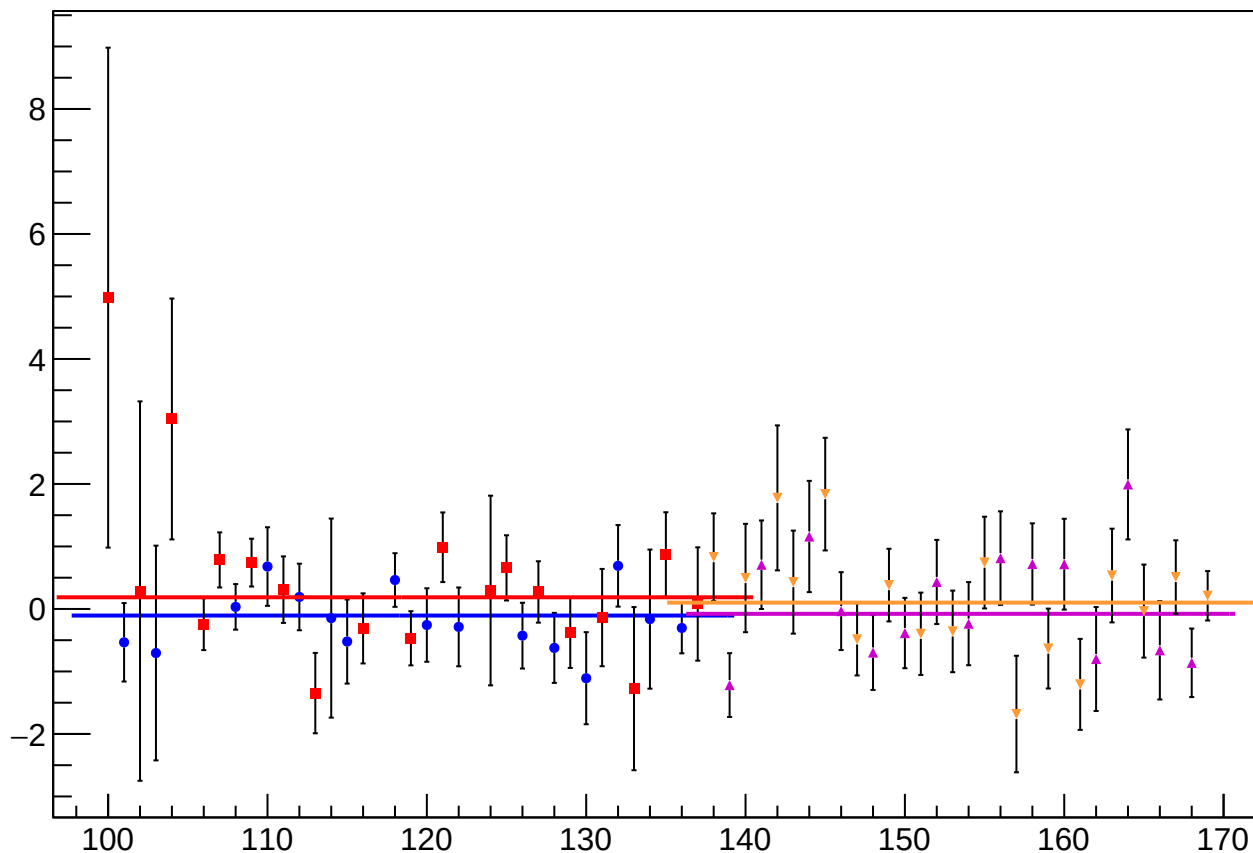
Right: 0.000+/-0.000 χ^2/NDF : 3409753.0/34

In: 0.000+/-0.000 χ^2/NDF : 2723465.1/30

Out: 0.000+/-0.000 χ^2/NDF : 3192105.1/35

All: 0.000+/-0.000 χ^2/NDF : 5938738.6/66

asym_atr2_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.105 ± 0.145 $\chi^2/\text{NDF}: 9.7/15$

Left Out: 0.101 ± 0.163 $\chi^2/\text{NDF}: 19.5/16$

Right Out: 0.187 ± 0.137 $\chi^2/\text{NDF}: 23.9/18$

Left In: -0.078 ± 0.172 $\chi^2/\text{NDF}: 23.1/14$

Left: 0.017 ± 0.118 $\chi^2/\text{NDF}: 43.2/31$

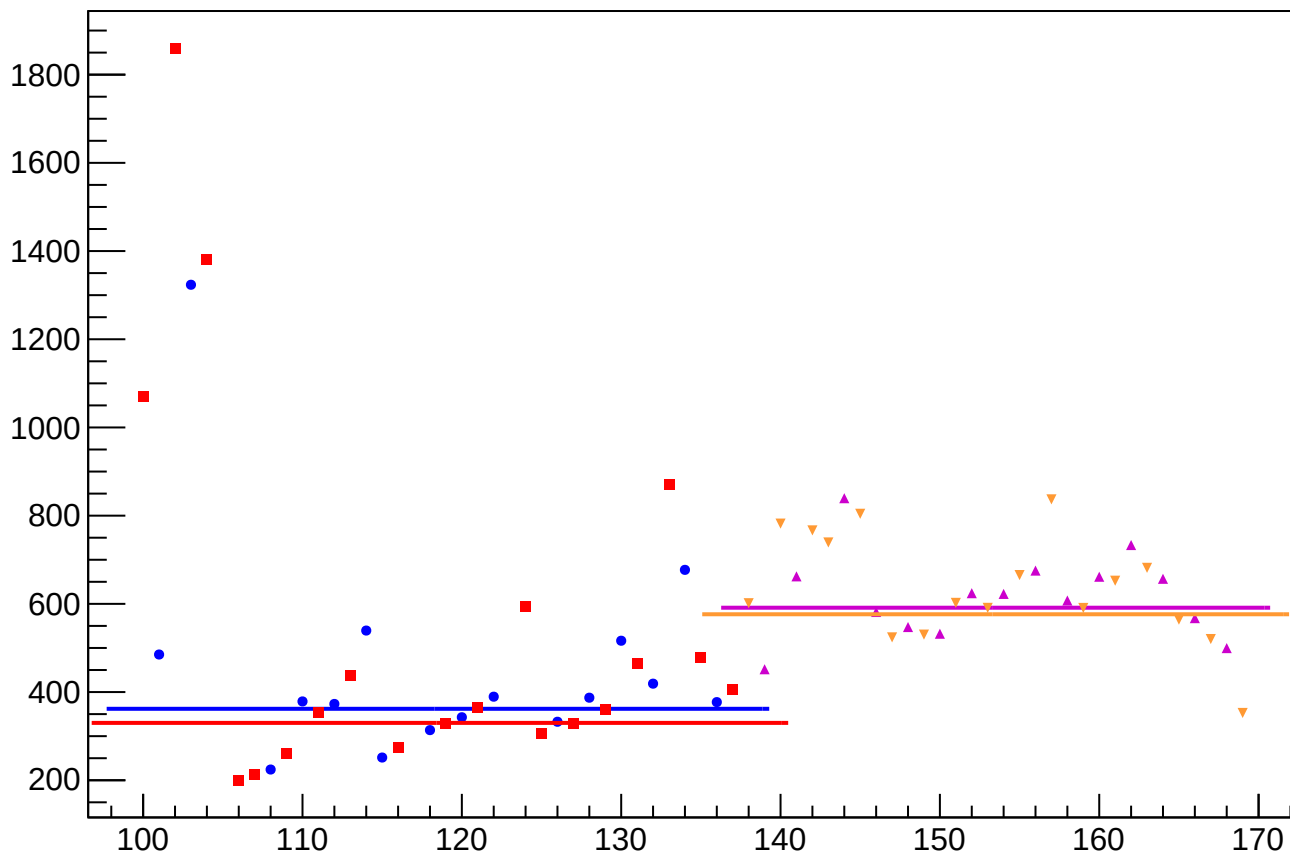
Right: 0.048 ± 0.100 $\chi^2/\text{NDF}: 35.7/34$

In: -0.094 ± 0.111 $\chi^2/\text{NDF}: 32.9/30$

Out: 0.151 ± 0.105 $\chi^2/\text{NDF}: 43.5/35$

All: 0.035 ± 0.076 $\chi^2/\text{NDF}: 78.9/66$

asym_atr2_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 362.037 ± 0.102 $\chi^2/\text{NDF}: 1377330.2/15$

Left Out: 576.400 ± 0.115 $\chi^2/\text{NDF}: 1315042.1/16$

Right Out: 330.084 ± 0.097 $\chi^2/\text{NDF}: 2246513.0/18$

Left In: 591.250 ± 0.122 $\chi^2/\text{NDF}: 539987.3/14$

Left: 583.424 ± 0.084 $\chi^2/\text{NDF}: 1862883.2/31$

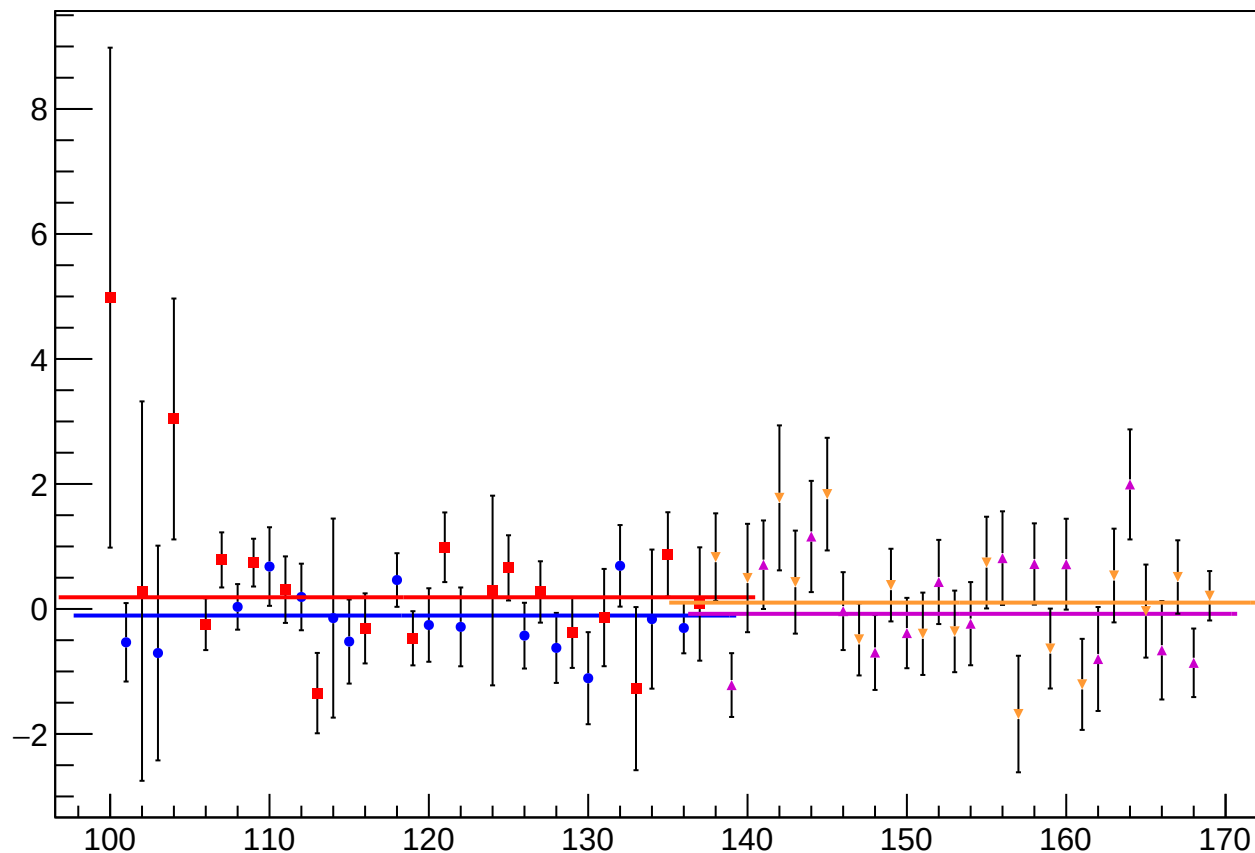
Right: 345.237 ± 0.070 $\chi^2/\text{NDF}: 3675129.8/34$

In: 457.001 ± 0.078 $\chi^2/\text{NDF}: 3996928.0/30$

Out: 432.423 ± 0.074 $\chi^2/\text{NDF}: 6231585.8/35$

All: 444.067 ± 0.054 $\chi^2/\text{NDF}: 10280370.1/60$

asym_atr2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.105 ± 0.145 χ^2/NDF : 9.7/15

Left Out: 0.101 ± 0.163 χ^2/NDF : 19.5/16

Right Out: 0.187 ± 0.137 χ^2/NDF : 23.9/18

Left In: -0.078 ± 0.172 χ^2/NDF : 23.1/14

Left: 0.017 ± 0.118 χ^2/NDF : 43.2/31

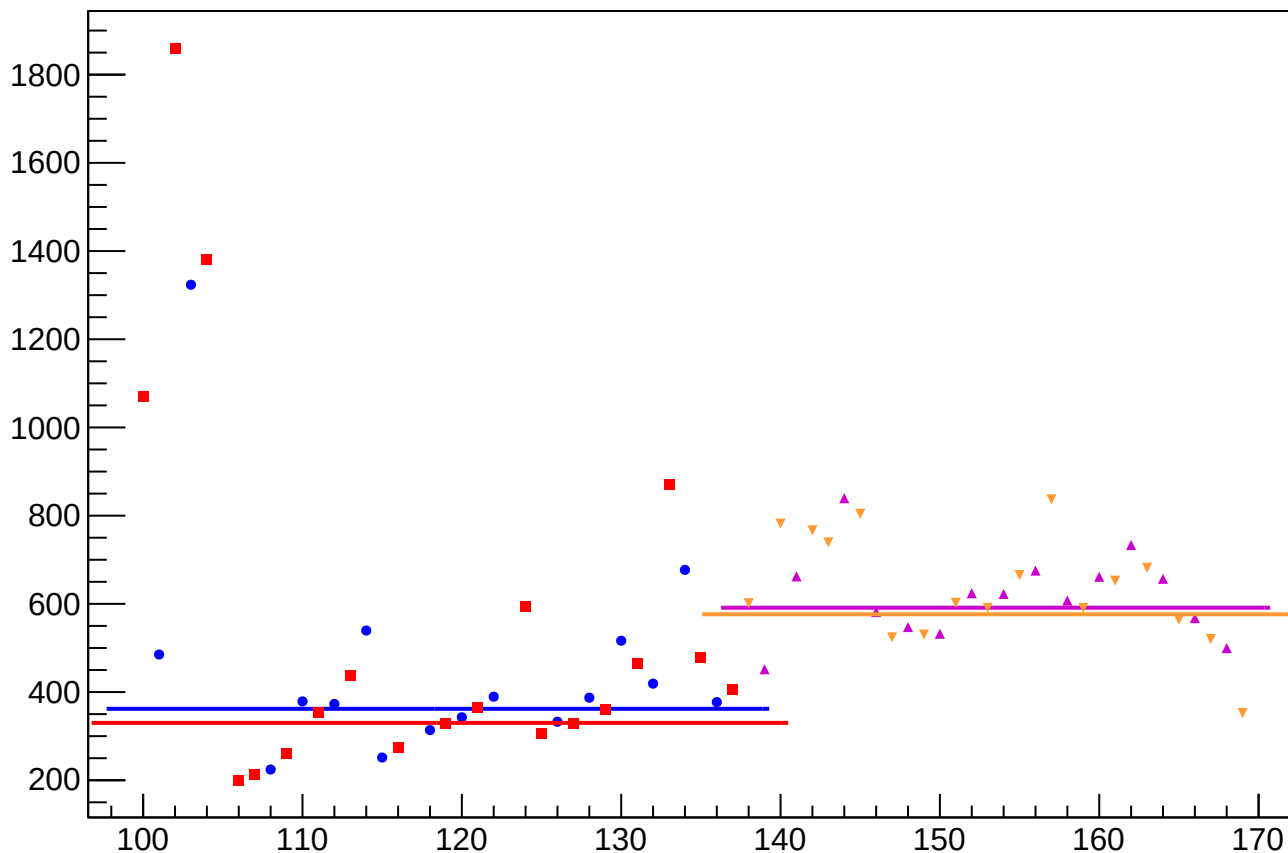
Right: 0.048 ± 0.100 χ^2/NDF : 35.7/34

In: -0.094 ± 0.111 χ^2/NDF : 32.9/30

Out: 0.151 ± 0.105 χ^2/NDF : 43.5/35

All: 0.035 ± 0.076 χ^2/NDF : 78.9/66

asym_atr2_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 362.037+/-0.102 χ^2/NDF : 1377330.2/15

Left Out: 576.400+/-0.115 χ^2/NDF : 1315042.1/16

Right Out: 330.084+/-0.097 χ^2/NDF : 2246513.0/18

Left In: 591.250+/-0.122 χ^2/NDF : 539987.3/14

Left: 583.424+/-0.084 χ^2/NDF : 1862883.2/31

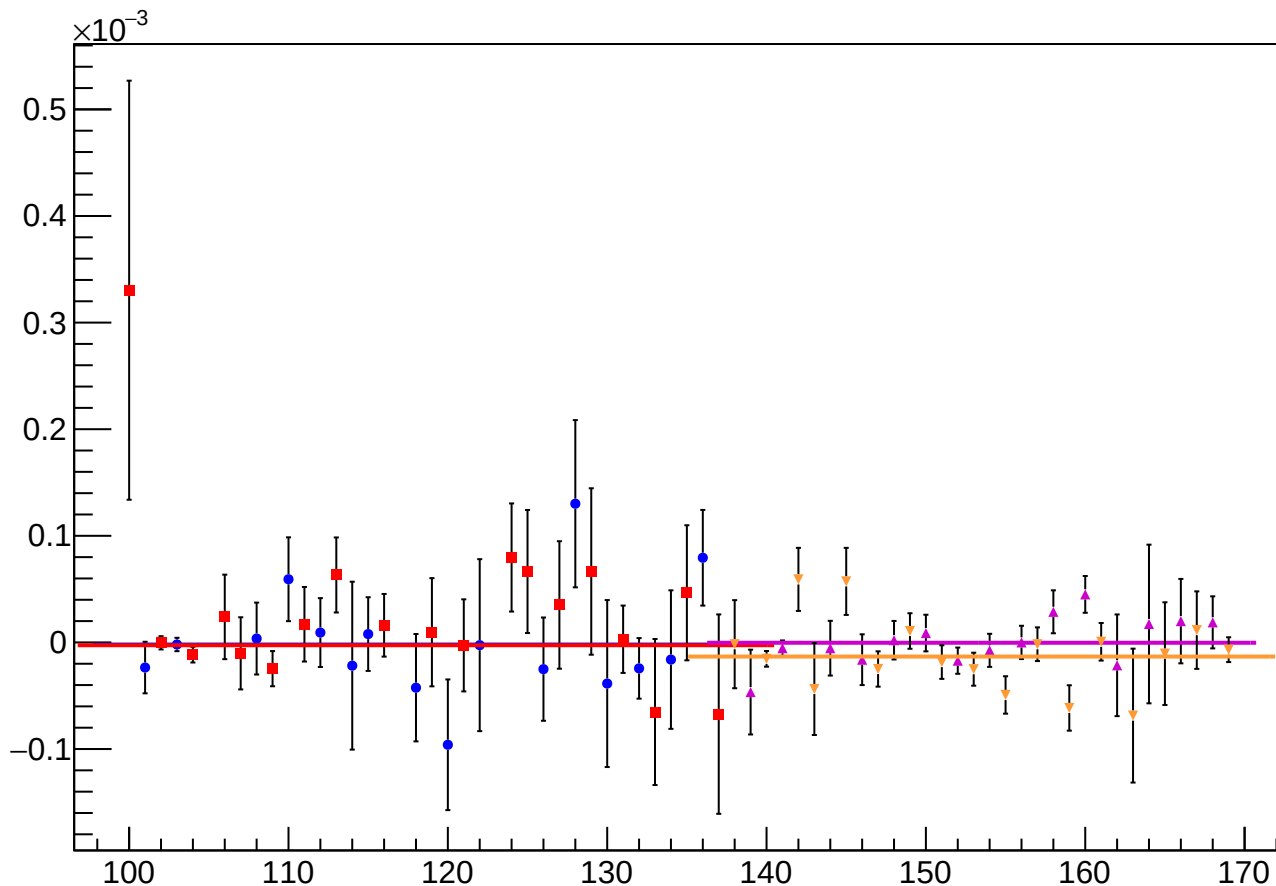
Right: 345.237+/-0.070 χ^2/NDF : 3675129.8/34

In: 457.001+/-0.078 χ^2/NDF : 3996928.0/30

Out: 432.423+/-0.074 χ^2/NDF : 6231585.8/35

All: 444.067+/-0.054 χ^2/NDF : 10280370.1/60

asym_atr2_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 13.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 27.0/16

Right Out: -0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 14.8/14

Left: -0.000+/-0.000 χ^2/NDF : 46.5/31

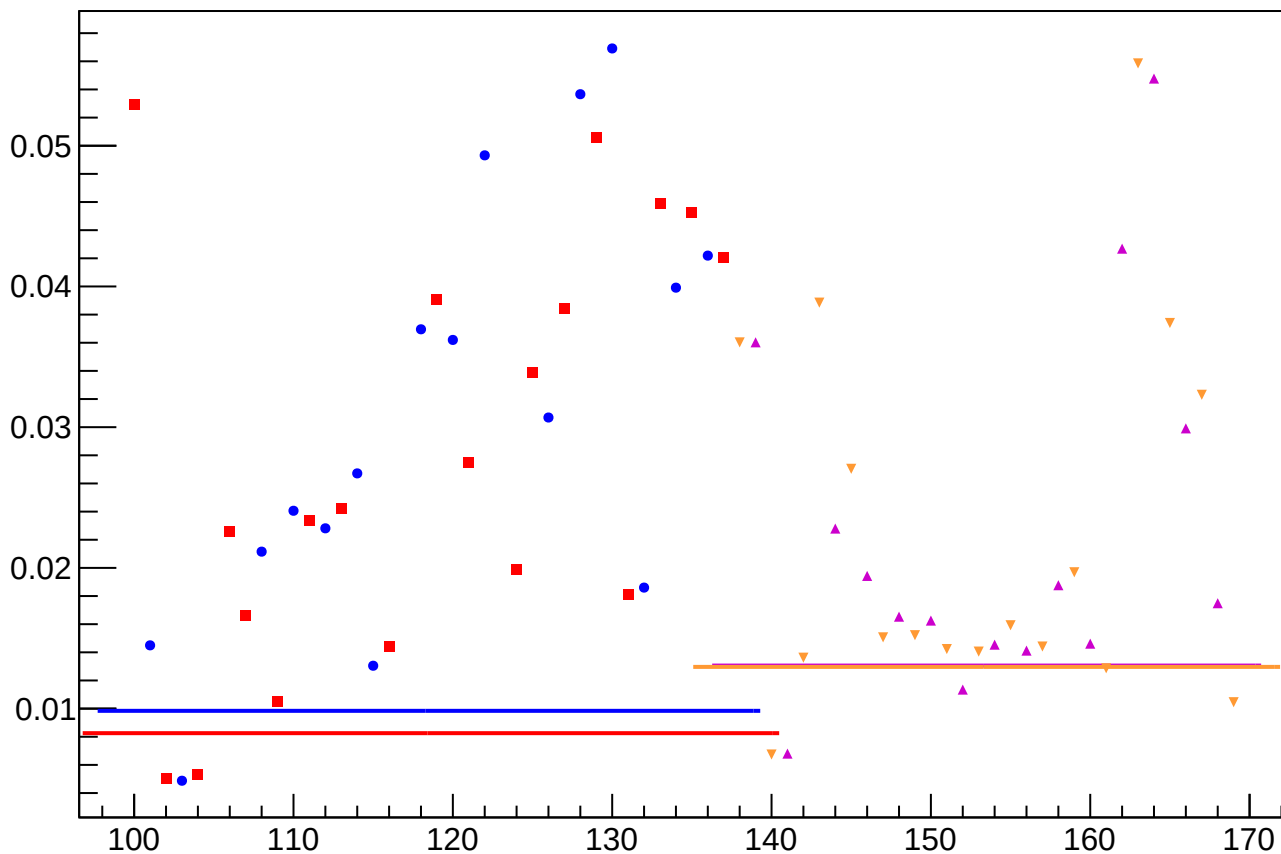
Right: -0.000+/-0.000 χ^2/NDF : 32.0/34

In: -0.000+/-0.000 χ^2/NDF : 28.6/30

Out: -0.000+/-0.000 χ^2/NDF : 48.5/35

All: -0.000+/-0.000 χ^2/NDF : 79.6/66

asym_atr2_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 7052383.3/15

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:5651421.0/16

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 6740964.7/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:4805774.9/14

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 10457689.4/31

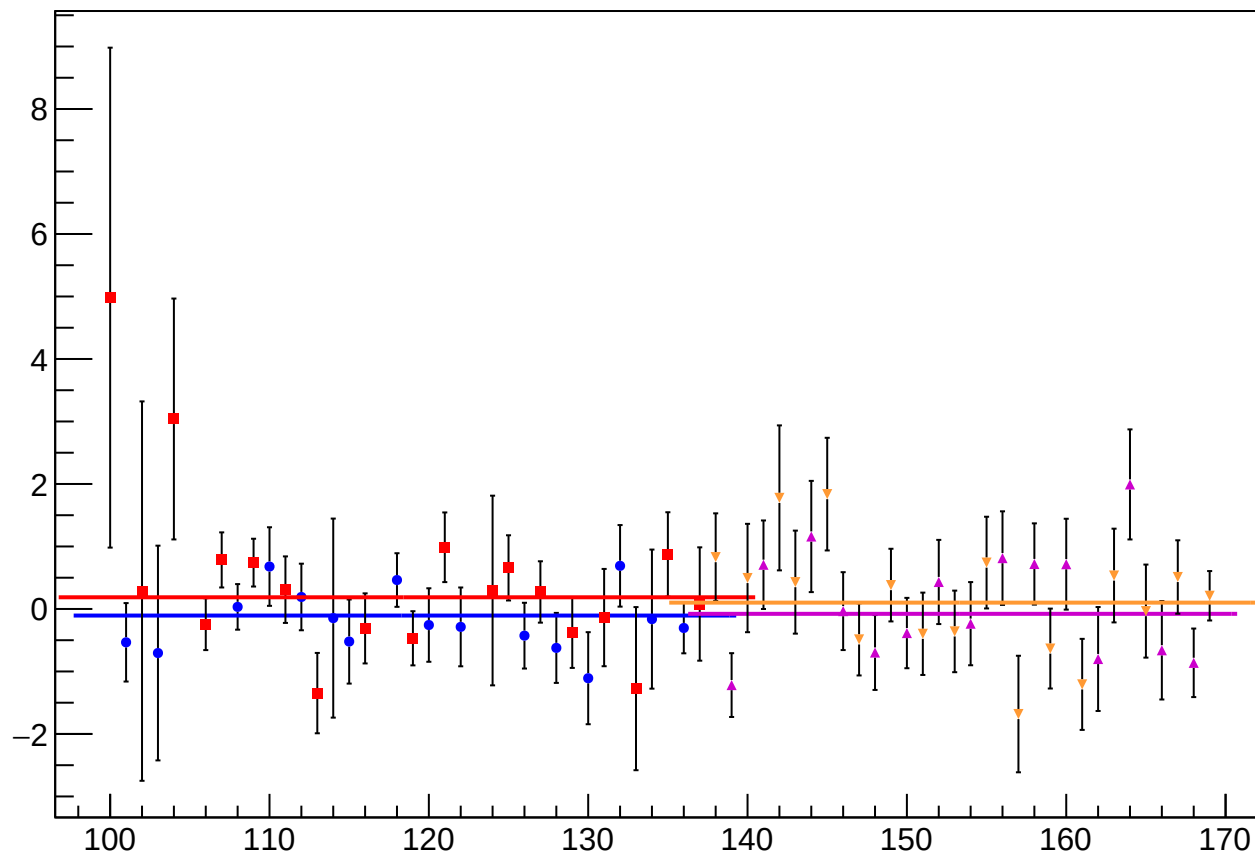
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 13900238.9/34

In: 0.012 $\pm$ 0.000 χ^2 /NDF:12288462.9/30

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:13663843.3/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 26079270.6/66

asym_atr2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.105 ± 0.145 χ^2/NDF : 9.7/15

Left Out: 0.101 ± 0.163 χ^2/NDF : 19.5/16

Right Out: 0.187 ± 0.137 χ^2/NDF : 23.9/18

Left In: -0.078 ± 0.172 χ^2/NDF : 23.1/14

Left: 0.017 ± 0.118 χ^2/NDF : 43.2/31

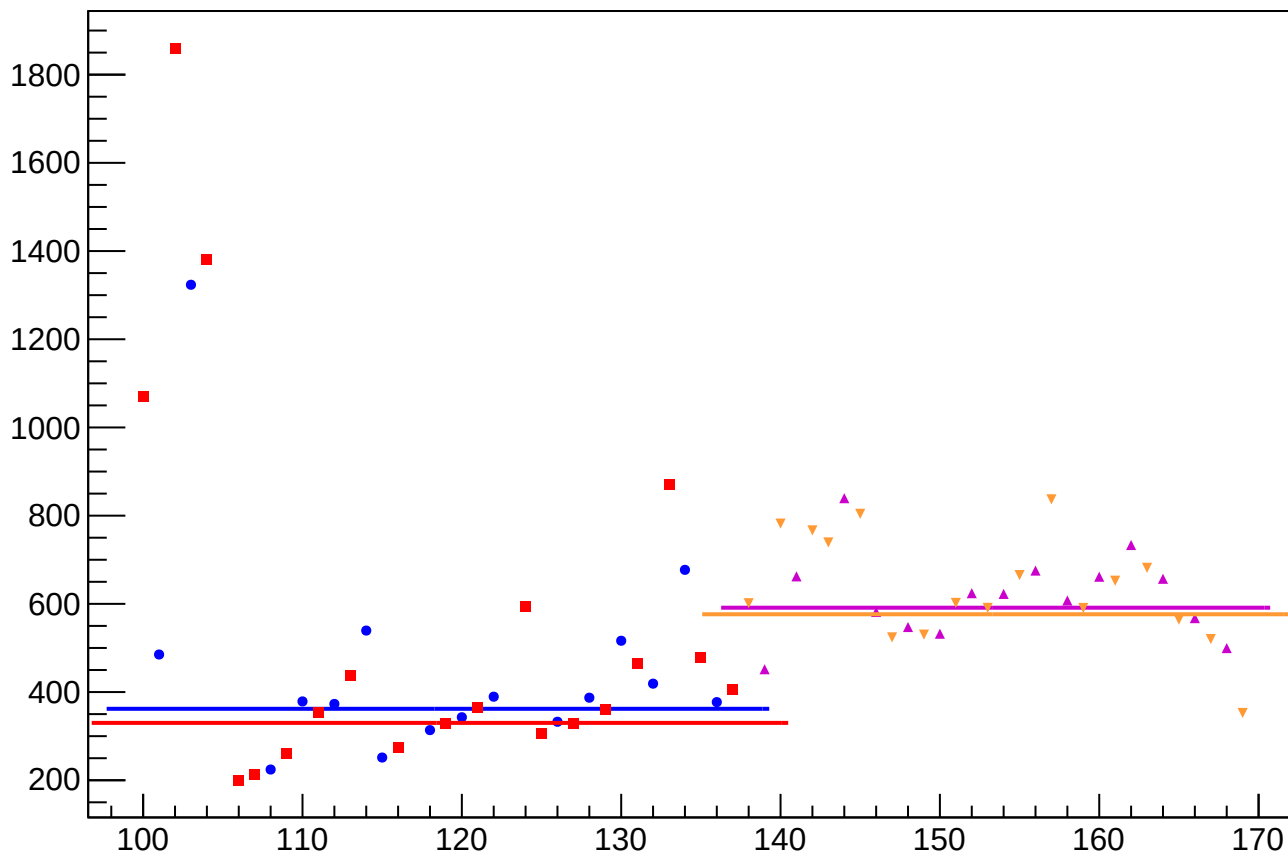
Right: 0.048 ± 0.100 χ^2/NDF : 35.7/34

In: -0.094 ± 0.111 χ^2/NDF : 32.9/30

Out: 0.151 ± 0.105 χ^2/NDF : 43.5/35

All: 0.035 ± 0.076 χ^2/NDF : 78.9/66

asym_atr2_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 362.034 ± 0.102 $\chi^2/NDF: 1377333.3/15$

Left Out: 576.406 ± 0.115 $\chi^2/NDF: 1315109.7/16$

Right Out: 330.082 ± 0.097 $\chi^2/NDF: 2246503.8/18$

Left In: 591.260 ± 0.122 $\chi^2/NDF: 539967.7/14$

Left: 583.432 ± 0.084 $\chi^2/NDF: 1862934.9/31$

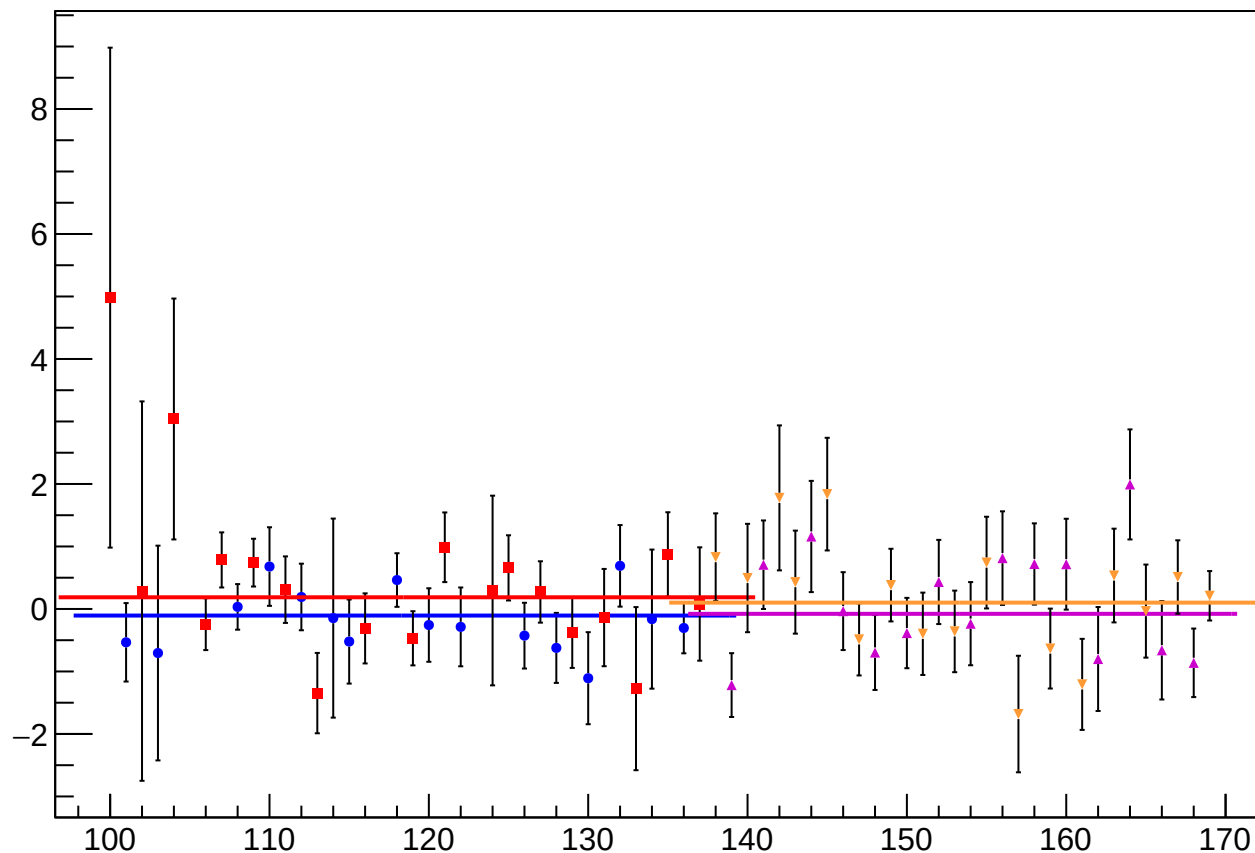
Right: 345.235 ± 0.070 $\chi^2/NDF: 3675120.0/34$

In: 457.001 ± 0.078 $\chi^2/NDF: 3997112.5/30$

Out: 432.423 ± 0.074 $\chi^2/NDF: 6231781.4/35$

All: 444.067 ± 0.054 $\chi^2/NDF: 10280750.0/60$

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.105 ± 0.145 χ^2/NDF : 9.7/15

Left Out: 0.101 ± 0.163 χ^2/NDF : 19.5/16

Right Out: 0.187 ± 0.137 χ^2/NDF : 23.9/18

Left In: -0.078 ± 0.172 χ^2/NDF : 23.1/14

Left: 0.017 ± 0.118 χ^2/NDF : 43.2/31

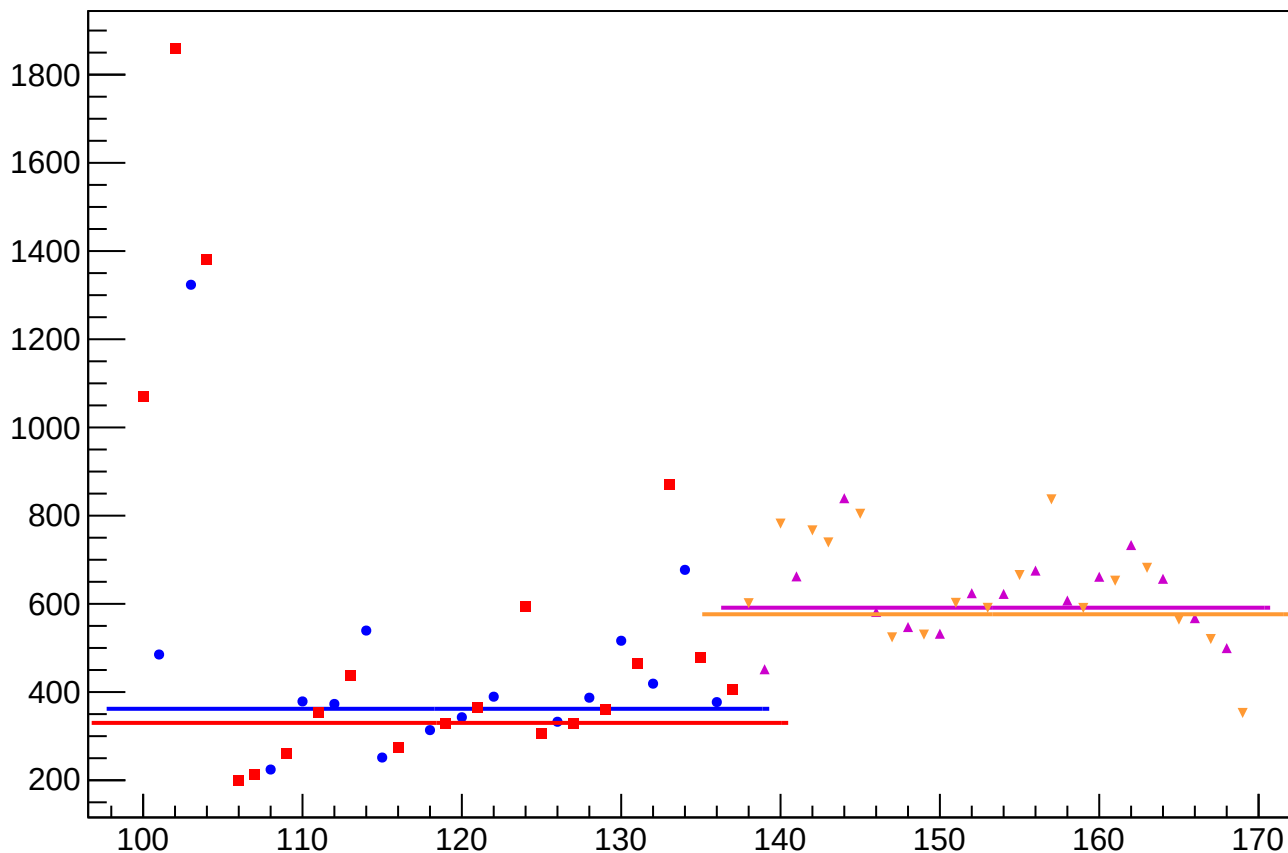
Right: 0.048 ± 0.100 χ^2/NDF : 35.7/34

In: -0.094 ± 0.111 χ^2/NDF : 32.9/30

Out: 0.151 ± 0.105 χ^2/NDF : 43.5/35

All: 0.035 ± 0.076 χ^2/NDF : 78.9/66

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 362.034+/-0.102 χ^2/NDF : 1377333.3/15

Left Out: 576.406+/-0.115 χ^2/NDF :1315109.7/16

Right Out: 330.082+/-0.097 χ^2/NDF : 2246503.8/18

Left In: 591.260+/-0.122 χ^2/NDF :539967.7/14

Left: 583.432+/-0.084 χ^2/NDF : 1862934.9/31

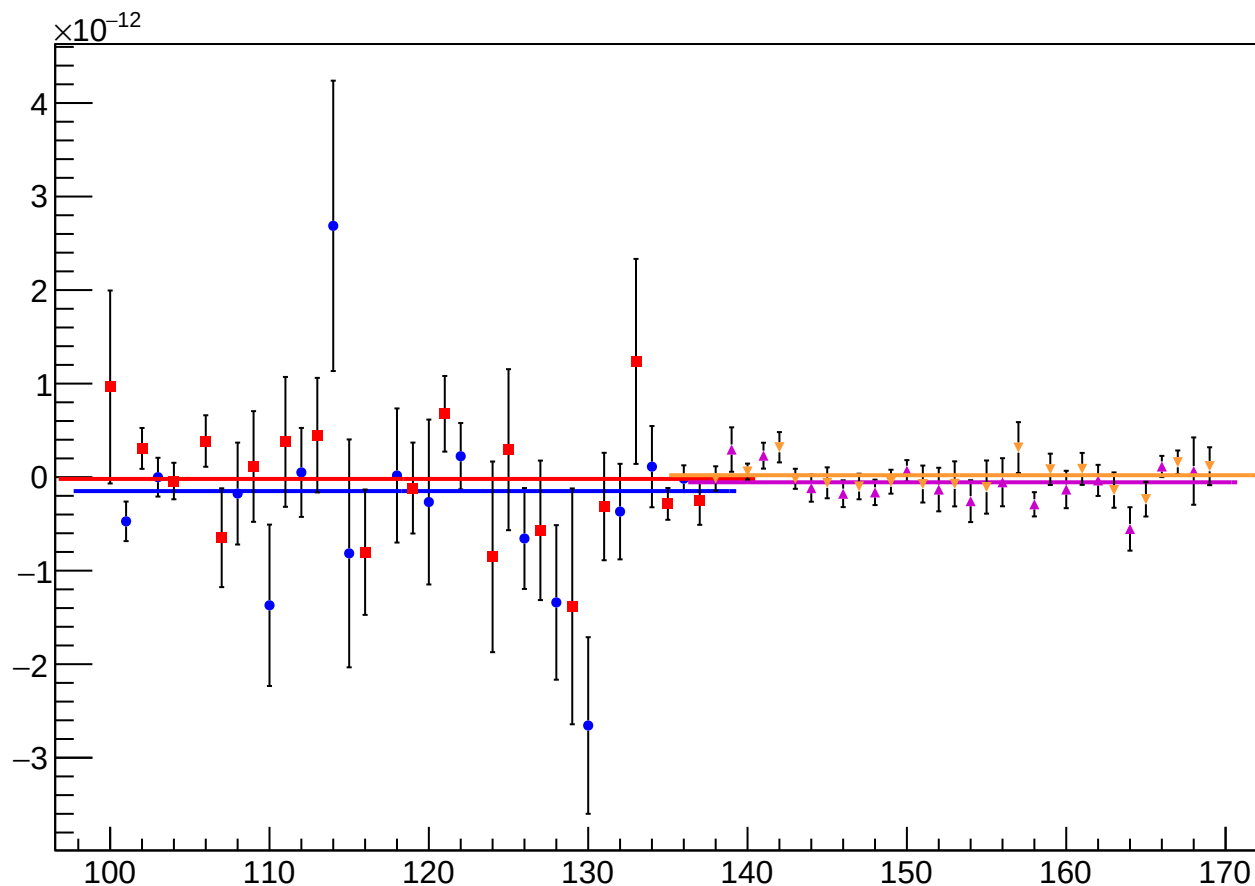
Right: 345.235+/-0.070 χ^2/NDF : 3675120.0/34

In: 457.001+/-0.078 χ^2/NDF :3997112.5/30

Out: 432.423+/-0.074 χ^2/NDF :6231781.4/35

All: 444.067+/-0.054 χ^2/NDF : 10280750.0/60

asym_atr2_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 21.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 11.2/16

Right Out: -0.000+/-0.000 χ^2/NDF : 19.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 20.4/14

Left: -0.000+/-0.000 χ^2/NDF : 33.5/31

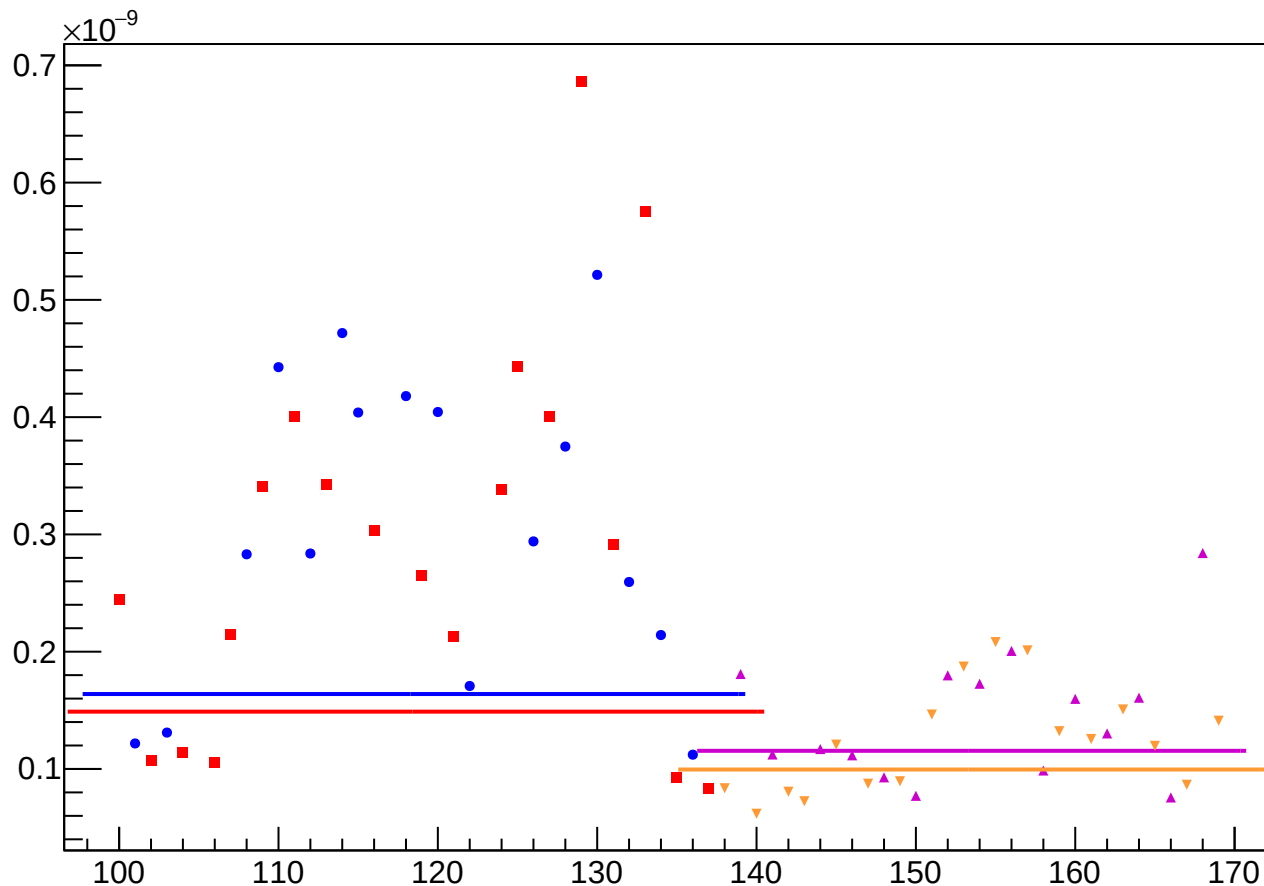
Right: -0.000+/-0.000 χ^2/NDF : 41.9/34

In: -0.000+/-0.000 χ^2/NDF : 42.6/30

Out: 0.000+/-0.000 χ^2/NDF : 30.8/35

All: -0.000+/-0.000 χ^2/NDF : 76.5/66

asym_atr2_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2011207.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :1985414.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2846265.5/18

Left In: 0.000+/-0.000 χ^2/NDF :1849636.9/14

Left: 0.000+/-0.000 χ^2/NDF : 4001353.5/31

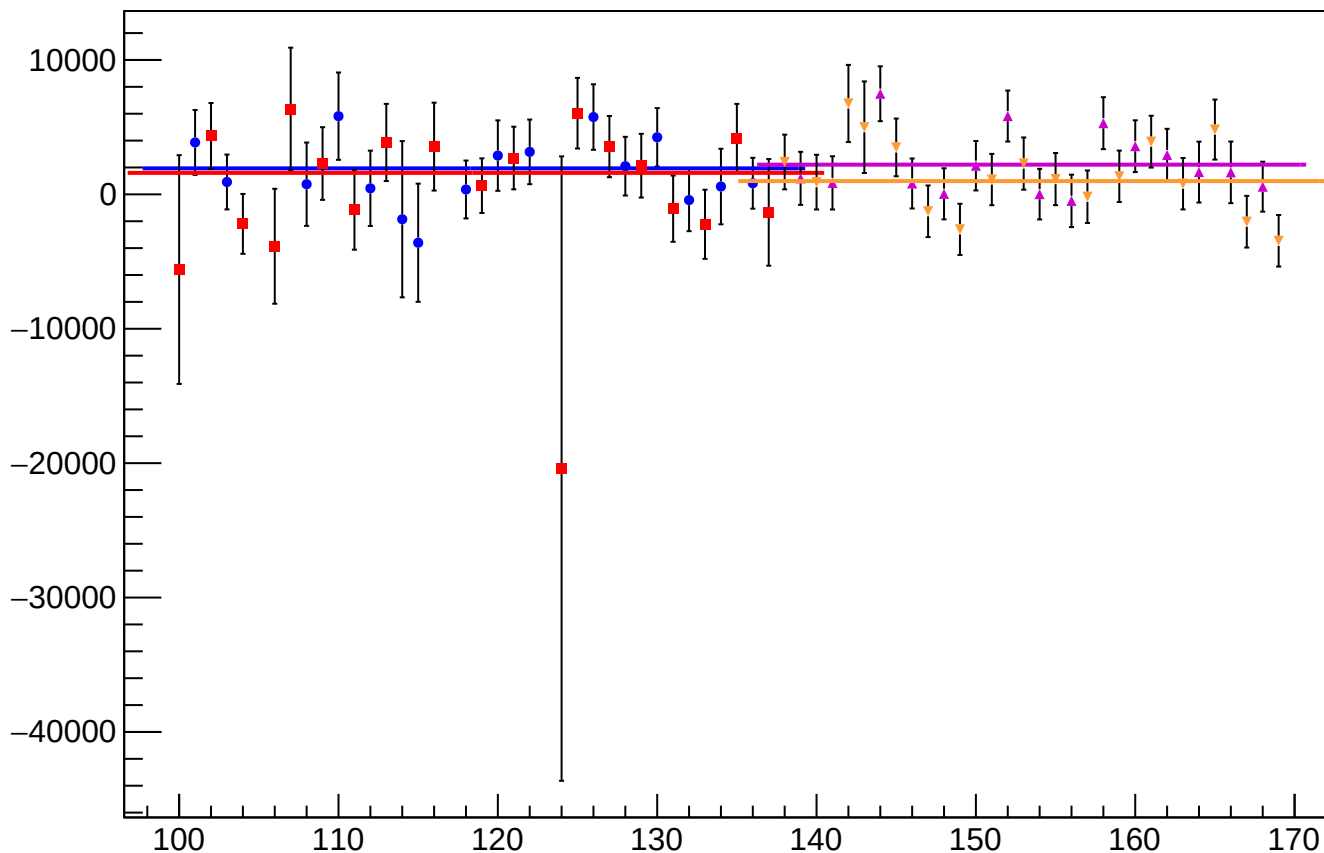
Right: 0.000+/-0.000 χ^2/NDF : 4888401.8/34

In: 0.000+/-0.000 χ^2/NDF :4361786.0/30

Out: 0.000+/-0.000 χ^2/NDF :5418314.8/35

All: 0.000+/-0.000 χ^2/NDF : 10011024.8/66

reg_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1934.755+/-627.874 χ^2/NDF : 10.9/15

Left Out: 987.135+/-495.009 χ^2/NDF : 26.2/16

Right Out: 1597.959+/-642.207 χ^2/NDF : 19.4/18

Left In: 2209.926+/-505.708 χ^2/NDF : 20.3/14

Left: 1585.459+/-353.746 χ^2/NDF : 49.4/31

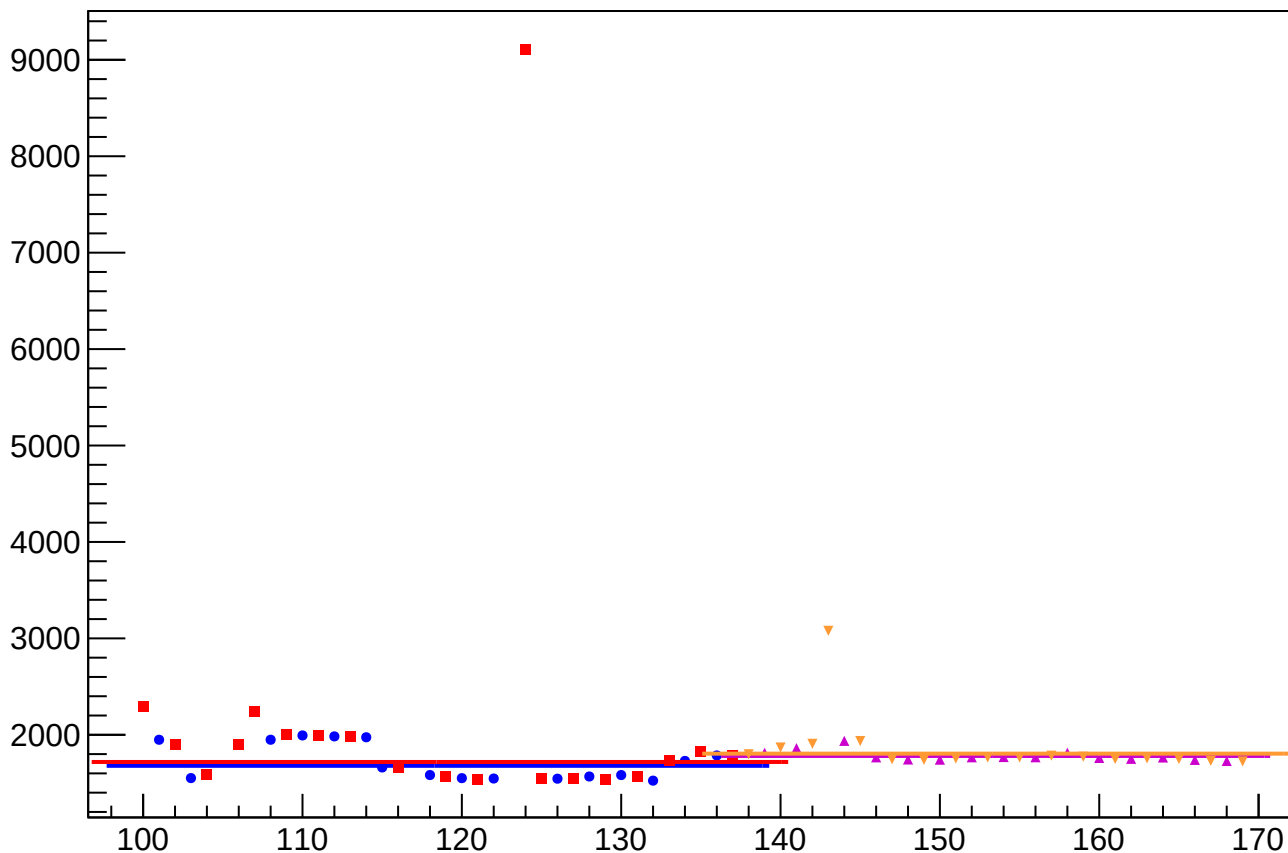
Right: 1770.157+/-448.956 χ^2/NDF : 30.4/34

In: 2101.655+/-393.846 χ^2/NDF : 31.3/30

Out: 1214.787+/-392.060 χ^2/NDF : 46.1/35

All: 1656.205+/-277.858 χ^2/NDF : 80.0/66

reg_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1678.543+/-0.444 χ^2/NDF : 141482.6/15

Left Out: 1804.647+/-0.350 χ^2/NDF : 310164.1/16

Right Out: 1718.312+/-0.452 χ^2/NDF : 383179.3/18

Left In: 1780.789+/-0.358 χ^2/NDF : 21344.0/14

Left: 1792.973+/-0.250 χ^2/NDF : 333781.4/31

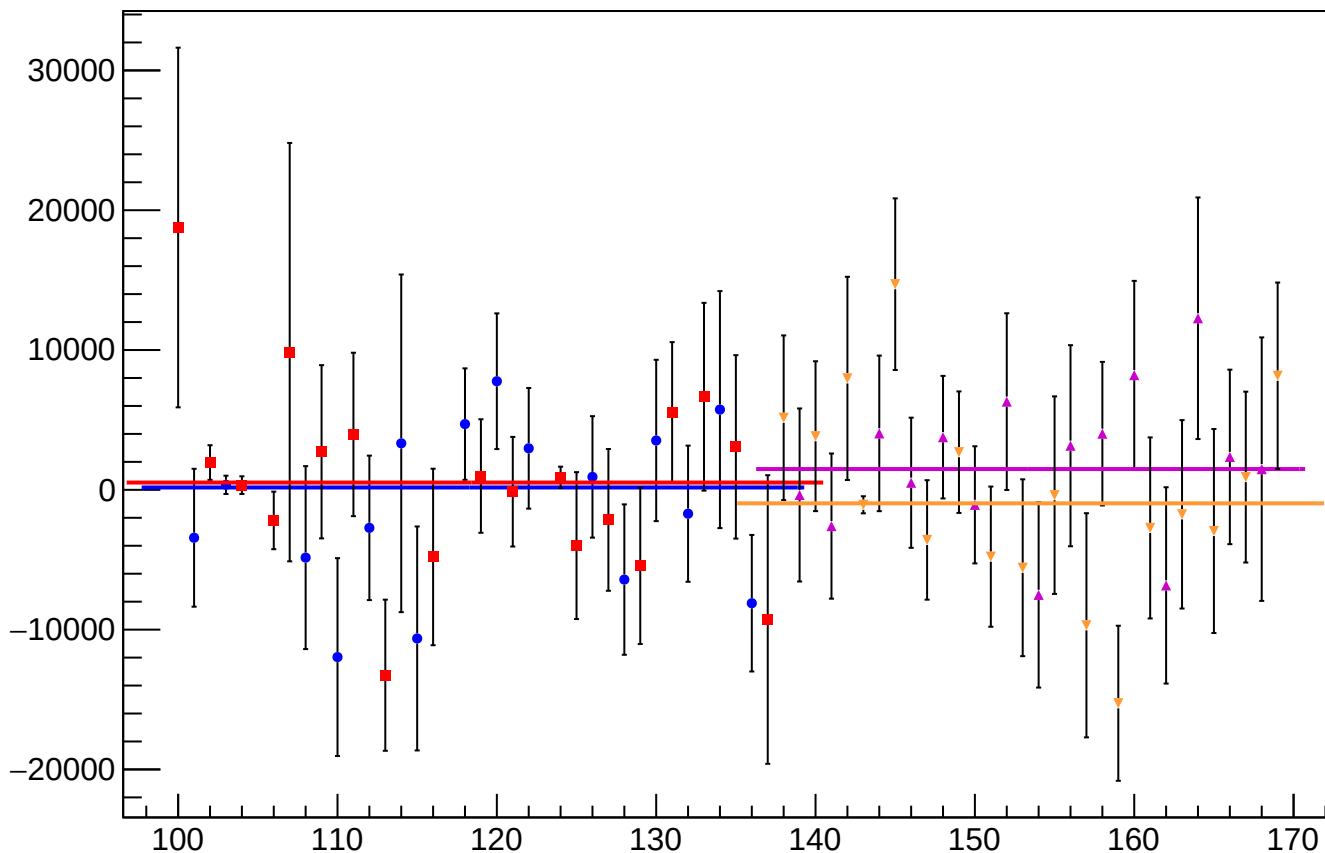
Right: 1698.073+/-0.317 χ^2/NDF : 528602.3/34

In: 1740.558+/-0.278 χ^2/NDF : 194995.1/30

Out: 1772.279+/-0.277 χ^2/NDF : 716152.5/35

All: 1756.519+/-0.196 χ^2/NDF : 917675.4/66

asym_atl_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: 168.283+/-591.607 χ^2/NDF : 15.8/15

Left Out: -964.497+/-563.643 χ^2/NDF : 22.1/16

Right Out: 521.080+/-424.783 χ^2/NDF : 18.5/18

Left In: 1486.663+/-1493.437 χ^2/NDF : 8.3/14

Left: -658.883+/-527.336 χ^2/NDF : 32.8/31

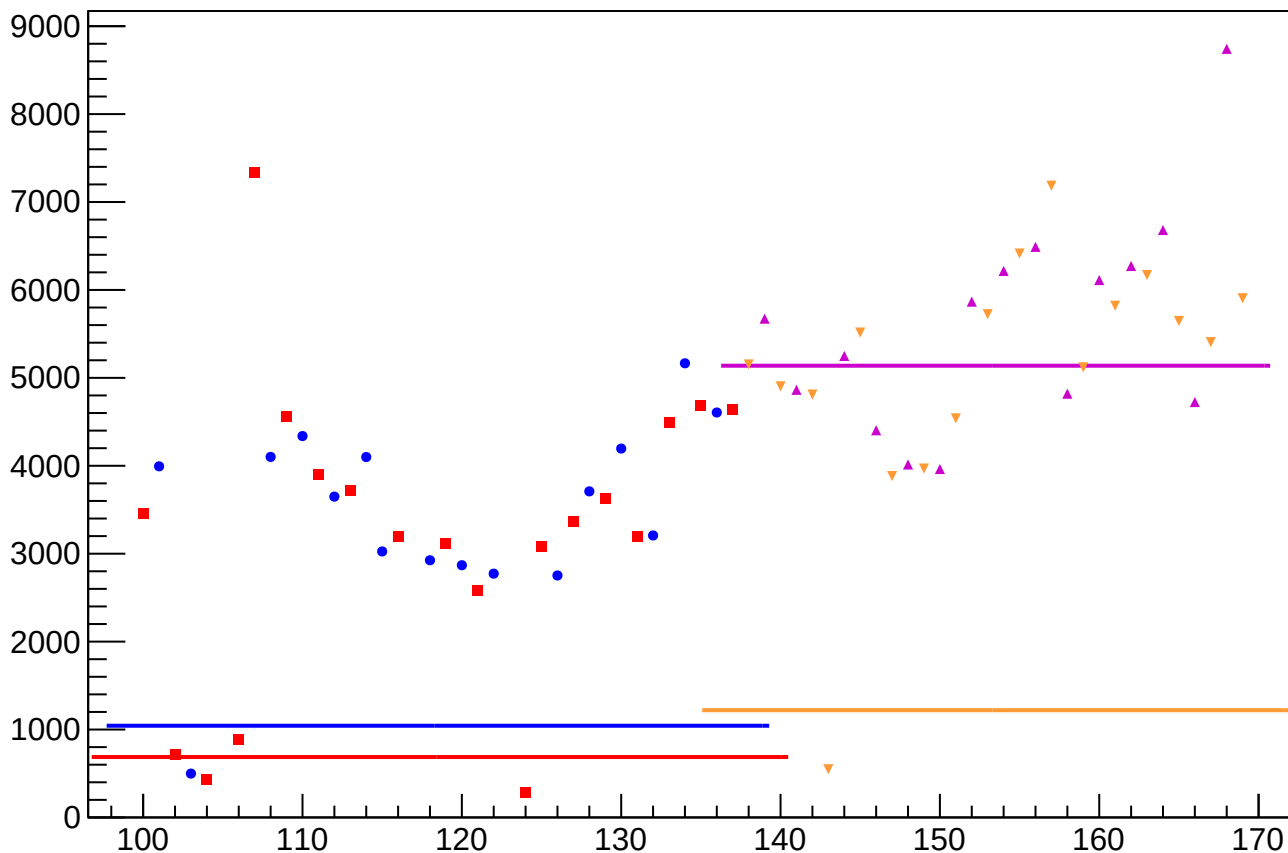
Right: 401.068+/-345.050 χ^2/NDF : 34.6/34

In: 347.108+/-550.023 χ^2/NDF : 24.8/30

Out: -17.044+/-339.233 χ^2/NDF : 45.1/35

All: 83.305+/-288.733 χ^2/NDF : 70.2/66

asym_atl_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1043.117+/-0.418

χ^2/NDF : 8111897.6/15

Left Out: 1219.860+/-0.399

χ^2/NDF : 17123458.6/16

Right Out: 687.329+/-0.300

χ^2/NDF : 8631529.6/18

Left In: 5138.163+/-1.056

χ^2/NDF : 976795.5/14

Left: 1708.399+/-0.373

χ^2/NDF : 30151122.8/31

Right: 808.358+/-0.244

χ^2/NDF : 17220710.7/34

In: 1598.568+/-0.389

χ^2/NDF : 22086449.4/30

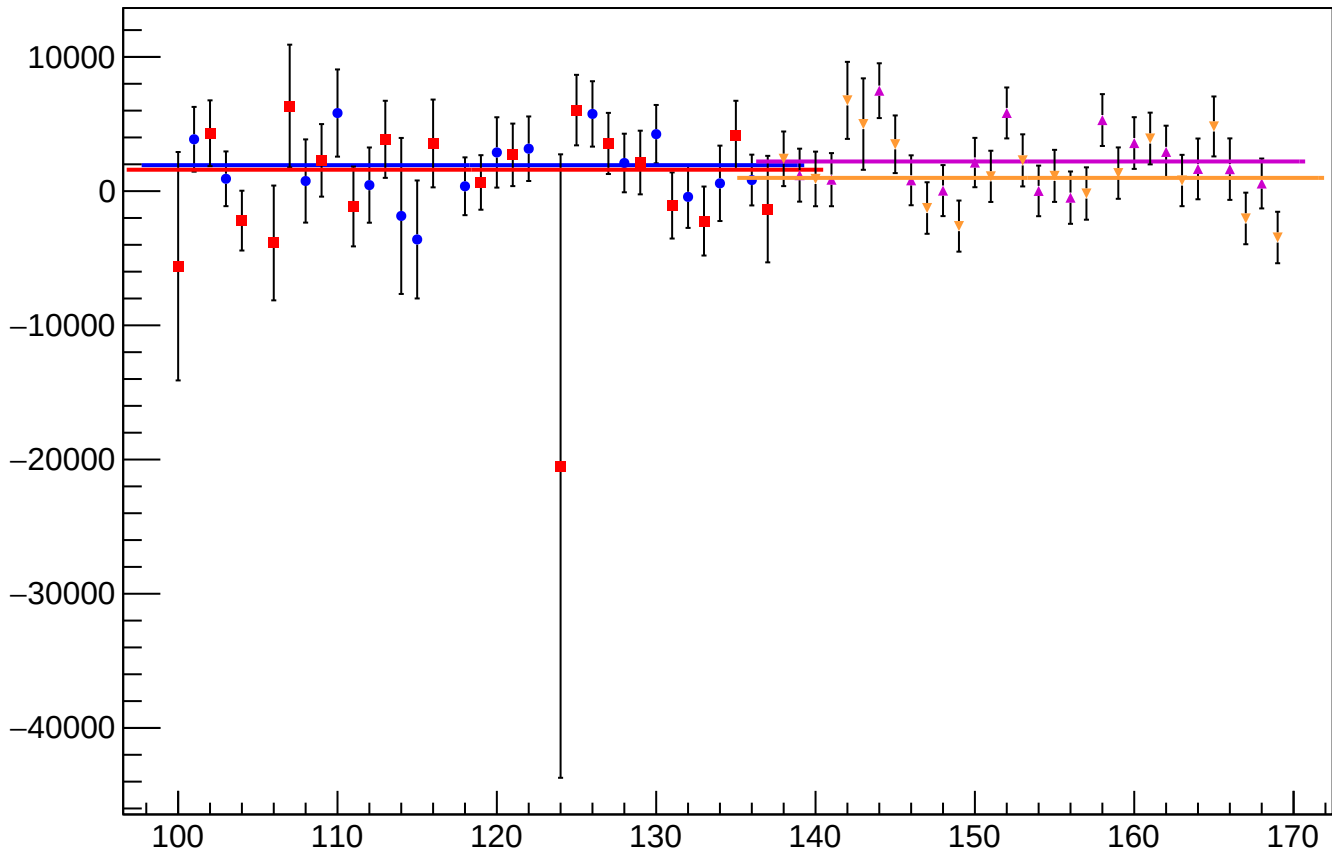
Out: 880.229+/-0.240

χ^2/NDF : 26893591.4/35

All: 1078.182+/-0.204

χ^2/NDF : 51451335.4/6

cor_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1934.871 $\pm$ 627.874 χ^2 /NDF: 10.9/15

Left Out: 987.097 $\pm$ 495.009 χ^2 /NDF:26.2/16

Right Out: 1595.521 $\pm$ 642.212 χ^2 /NDF: 19.4/18

Left In: 2210.020 $\pm$ 505.708 χ^2 /NDF:20.3/14

Left: 1585.485 $\pm$ 353.746 χ^2 /NDF: 49.4/31

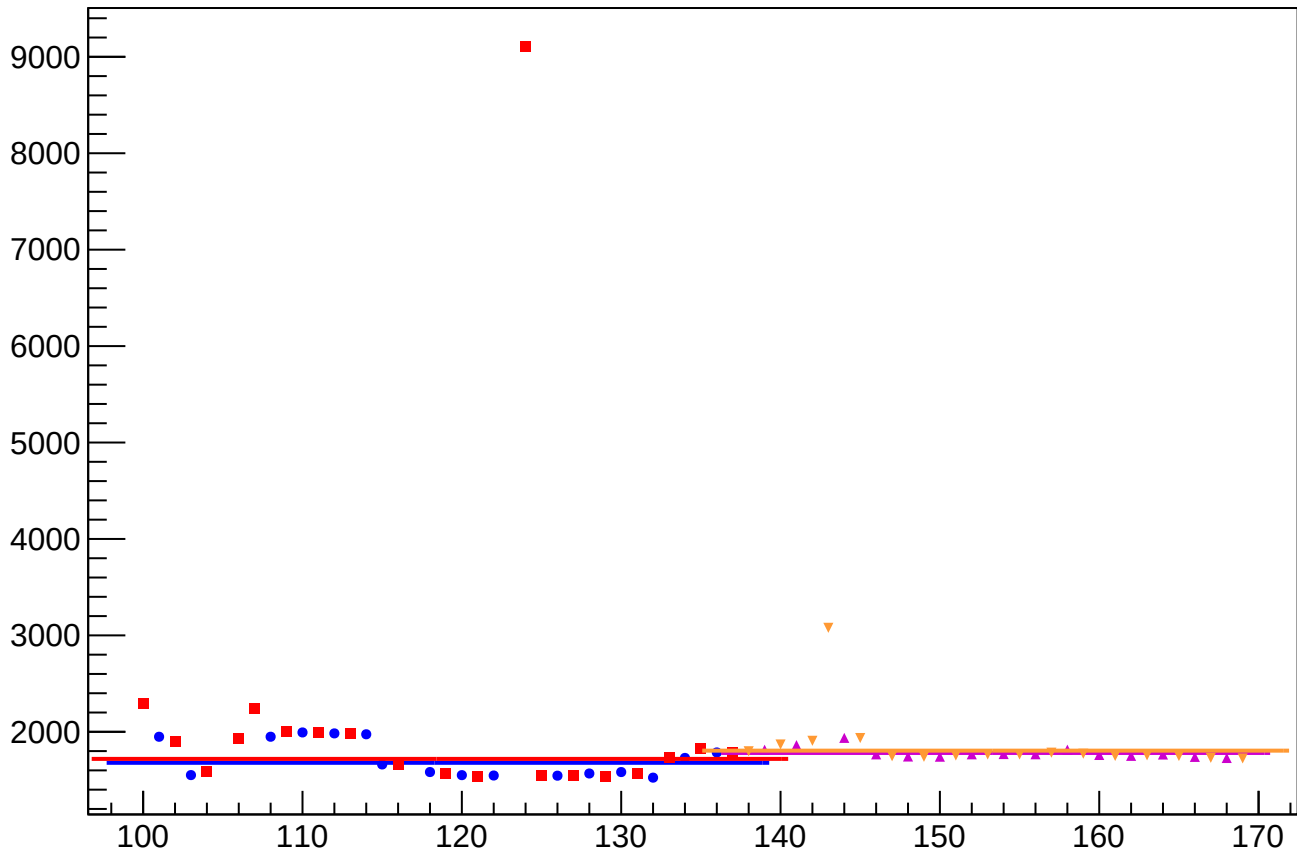
Right: 1769.026 $\pm$ 448.957 χ^2 /NDF: 30.4/34

In: 2101.758 $\pm$ 393.846 χ^2 /NDF:31.3/30

Out: 1213.852 $\pm$ 392.061 χ^2 /NDF:46.1/35

All: 1655.788 $\pm$ 277.858 χ^2 /NDF: 79.9/66

cor_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1678.543+/-0.444 χ^2/NDF : 141482.7/15

Left Out: 1804.647+/-0.350 χ^2/NDF : 310164.1/16

Right Out: 1719.146+/-0.452 χ^2/NDF : 384922.3/18

Left In: 1780.789+/-0.358 χ^2/NDF : 21344.0/14

Left: 1792.973+/-0.250 χ^2/NDF : 333781.4/31

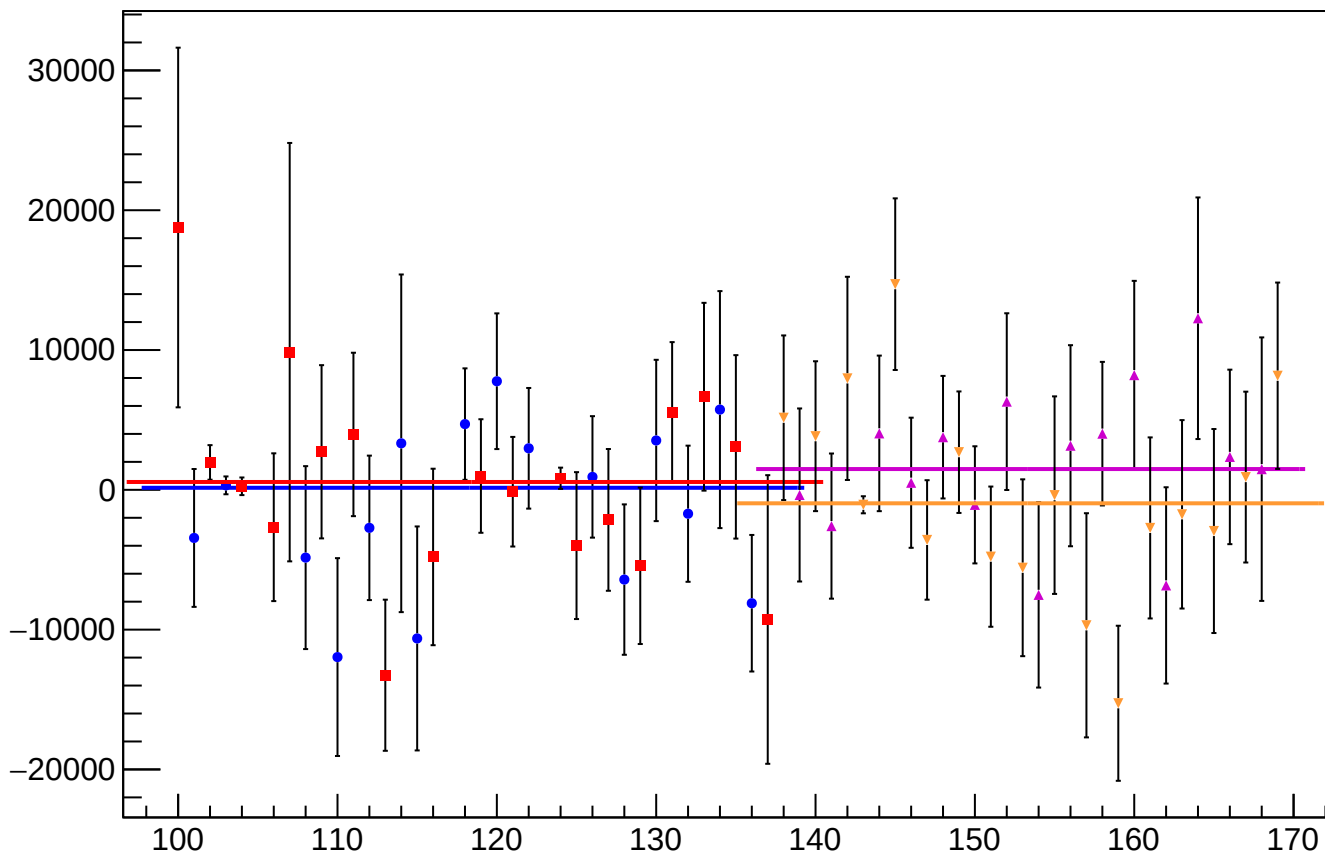
Right: 1698.473+/-0.317 χ^2/NDF : 530510.4/34

In: 1740.558+/-0.278 χ^2/NDF : 194995.3/30

Out: 1772.612+/-0.277 χ^2/NDF : 717443.0/35

All: 1756.683+/-0.196 χ^2/NDF : 919102.5/66

asym_atl_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: 146.548 $\pm$ 579.356 χ^2 /NDF: 15.8/15

Left Out: -964.156 $\pm$ 563.624 χ^2 /NDF: 22.1/16

Right Out: 561.454 $\pm$ 430.621 χ^2 /NDF: 17.2/18

Left In: 1486.796 $\pm$ 1493.436 χ^2 /NDF: 8.3/14

Left: -658.587 $\pm$ 527.320 χ^2 /NDF: 32.8/31

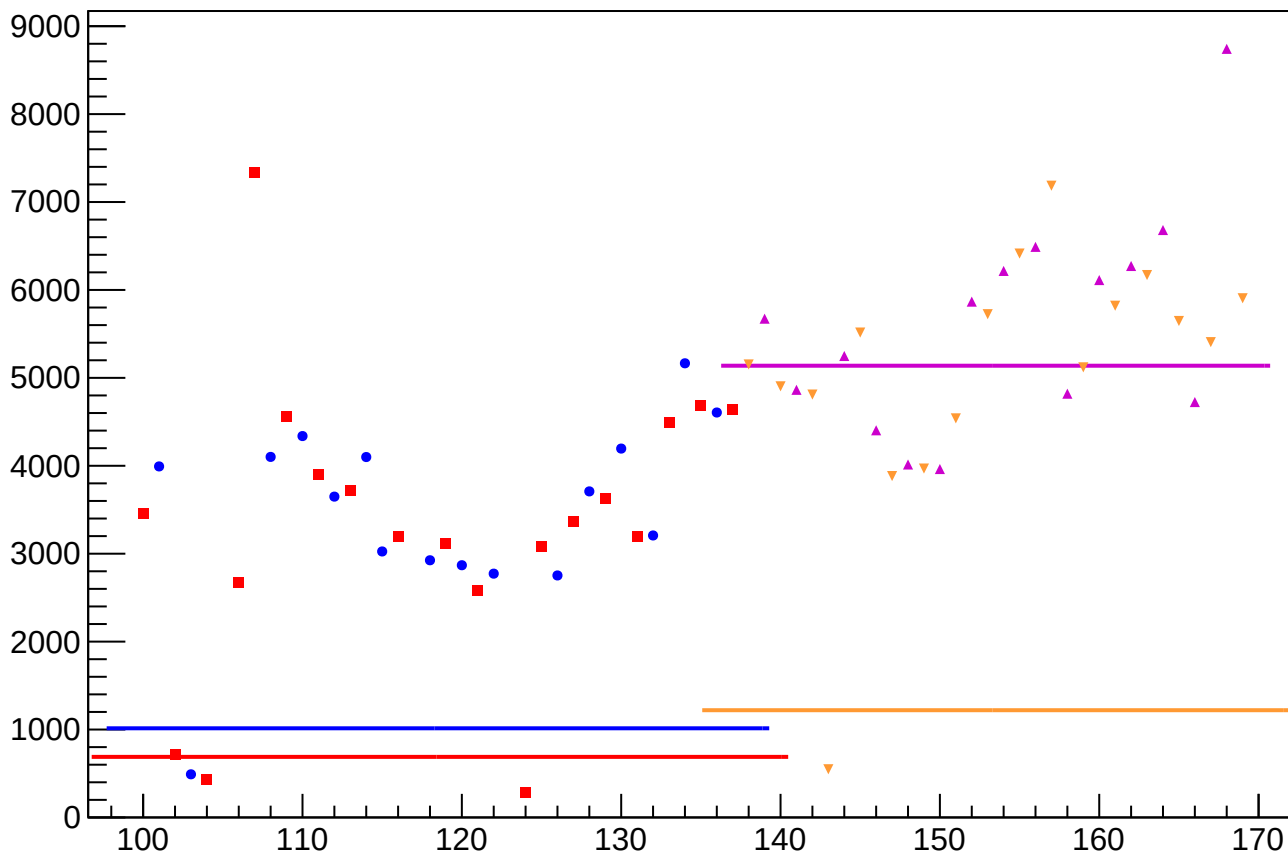
Right: 413.806 $\pm$ 345.609 χ^2 /NDF: 33.3/34

In: 321.863 $\pm$ 540.137 χ^2 /NDF: 24.8/30

Out: -0.855 $\pm$ 342.180 χ^2 /NDF: 43.9/35

All: 91.569 $\pm$ 289.058 χ^2 /NDF: 69.0/66

asym_atl_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1014.094+/-0.410

χ^2/NDF : 8223017.6/15

Left Out: 1219.794+/-0.399

χ^2/NDF : 17123823.6/16

Right Out: 689.055+/-0.304

χ^2/NDF : 8910364.4/18

Left In: 5138.157+/-1.056

χ^2/NDF : 976815.2/14

Left: 1708.311+/-0.373

χ^2/NDF : 30152001.8/31

Right: 804.723+/-0.244

χ^2/NDF : 17538883.1/34

In: 1553.554+/-0.382

χ^2/NDF : 22456155.4/30

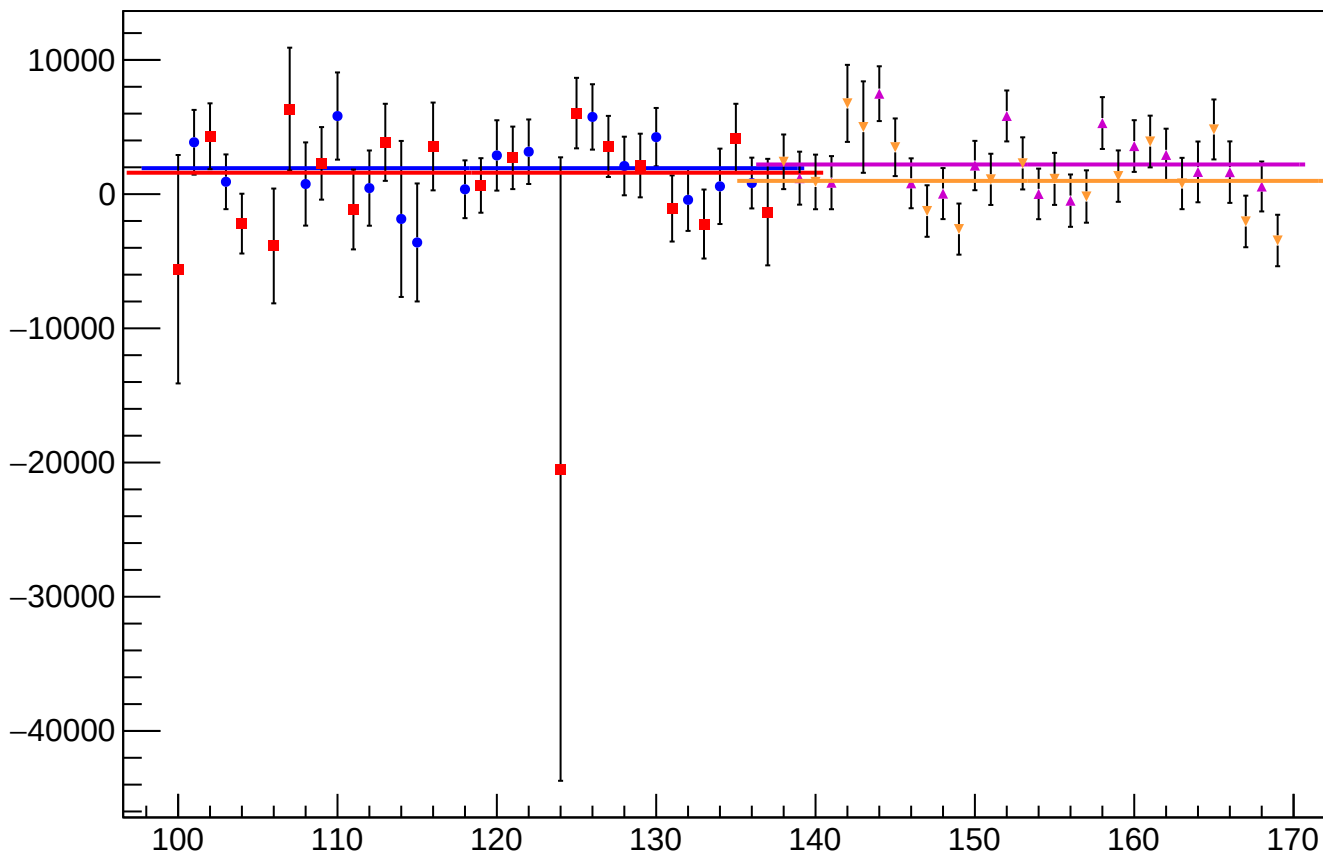
Out: 884.674+/-0.242

χ^2/NDF : 27153967.3/35

All: 1076.237+/-0.204

χ^2/NDF : 51798785.0/6

eigen_cor_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1934.871 $\pm$ 627.874 χ^2 /NDF: 10.9/15

Left Out: 987.097 $\pm$ 495.009 χ^2 /NDF: 26.2/16

Right Out: 1595.521 $\pm$ 642.212 χ^2 /NDF: 19.4/18

Left In: 2210.020 $\pm$ 505.708 χ^2 /NDF: 20.3/14

Left: 1585.485 $\pm$ 353.746 χ^2 /NDF: 49.4/31

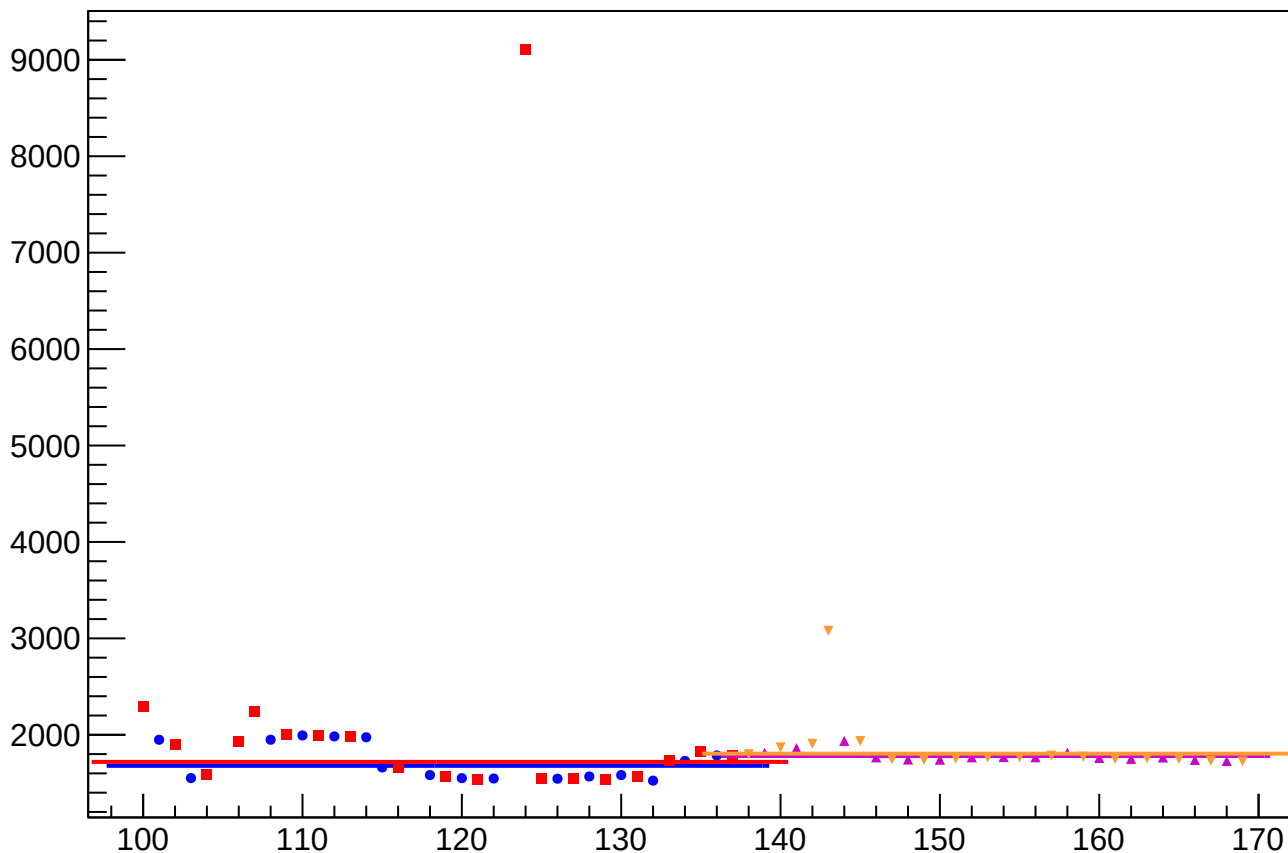
Right: 1769.026 $\pm$ 448.957 χ^2 /NDF: 30.4/34

In: 2101.758 $\pm$ 393.846 χ^2 /NDF: 31.3/30

Out: 1213.852 $\pm$ 392.061 χ^2 /NDF: 46.1/35

All: 1655.788 $\pm$ 277.858 χ^2 /NDF: 79.9/66

eigen_cor_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1678.543+/-0.444 χ^2/NDF : 141482.7/15

Left Out: 1804.647+/-0.350 χ^2/NDF : 310164.1/16

Right Out: 1719.146+/-0.452 χ^2/NDF : 384922.3/18

Left In: 1780.789+/-0.358 χ^2/NDF : 21344.0/14

Left: 1792.973+/-0.250 χ^2/NDF : 333781.4/31

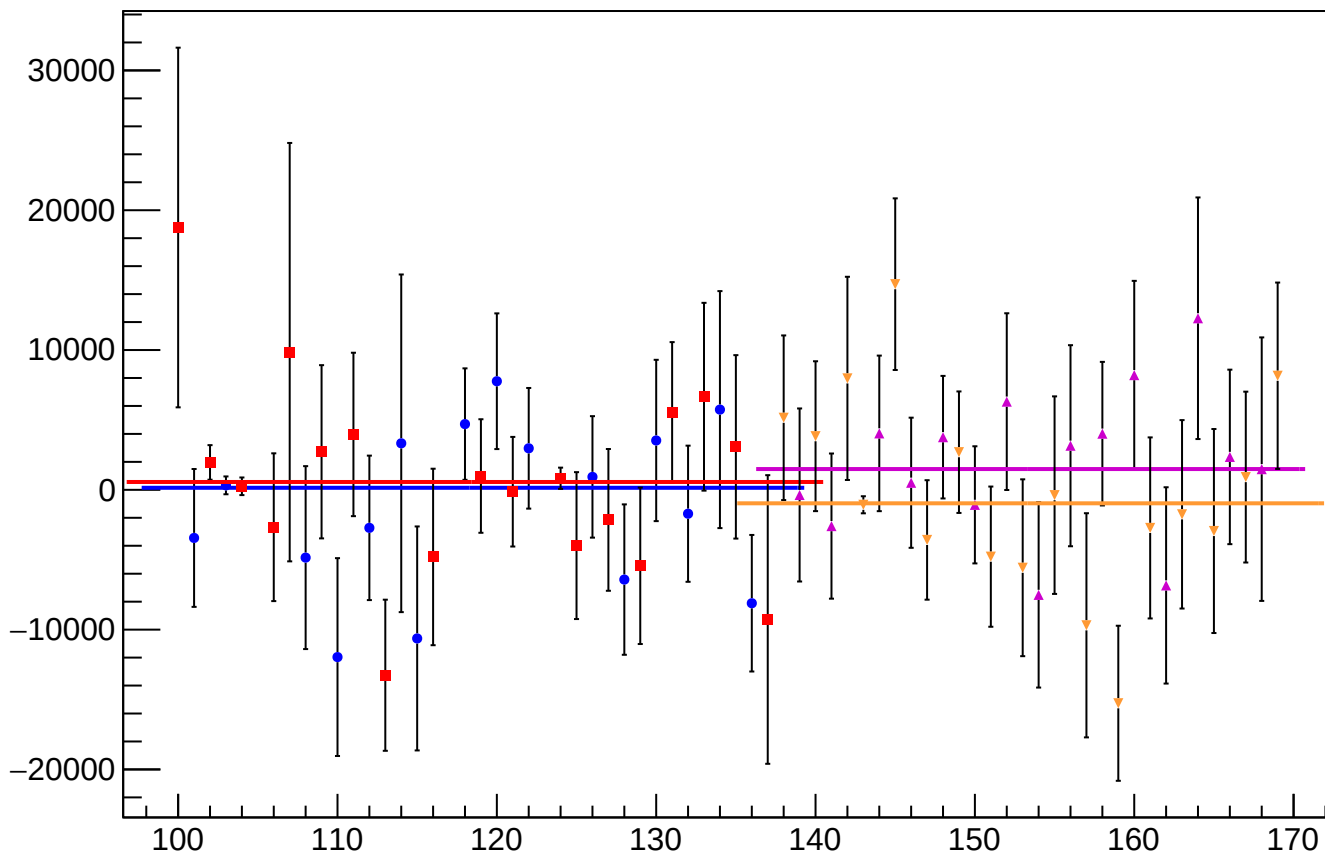
Right: 1698.473+/-0.317 χ^2/NDF : 530510.4/34

In: 1740.558+/-0.278 χ^2/NDF : 194995.3/30

Out: 1772.612+/-0.277 χ^2/NDF : 717443.0/35

All: 1756.683+/-0.196 χ^2/NDF : 919102.5/66

asym_atl_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 146.548 $\pm$ 579.356 χ^2 /NDF: 15.8/15

Left Out: -964.156 $\pm$ 563.624 χ^2 /NDF:22.1/16

Right Out: 561.454 $\pm$ 430.621 χ^2 /NDF: 17.2/18

Left In: 1486.796 $\pm$ 1493.436 χ^2 /NDF:8.3/14

Left: -658.587 $\pm$ 527.320 χ^2 /NDF: 32.8/31

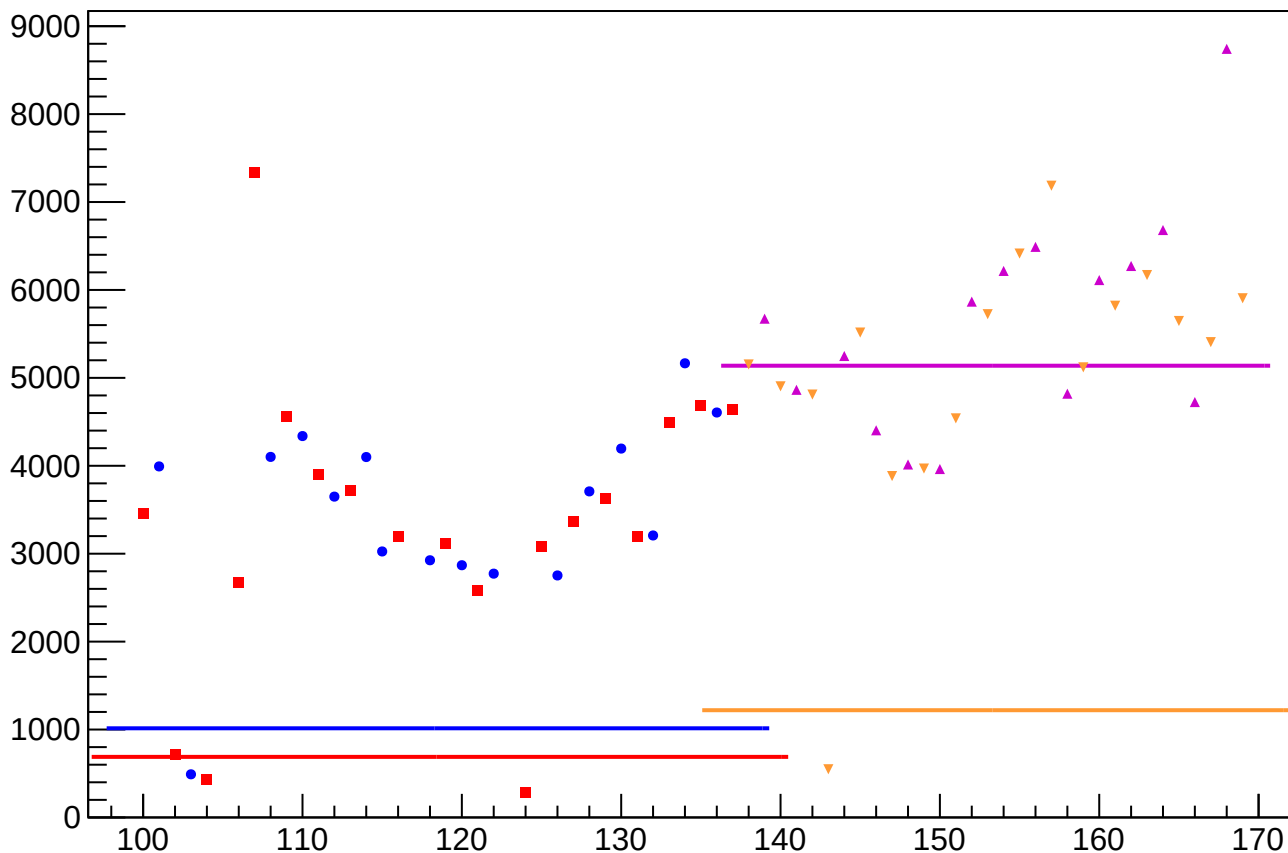
Right: 413.806 $\pm$ 345.609 χ^2 /NDF: 33.3/34

In: 321.863 $\pm$ 540.137 χ^2 /NDF:24.8/30

Out: -0.855 $\pm$ 342.180 χ^2 /NDF:43.9/35

All: 91.569 $\pm$ 289.058 χ^2 /NDF: 69.0/66

asym_atl_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1014.094+/-0.410

χ^2/NDF : 8223017.6/15

Left Out: 1219.794+/-0.399

χ^2/NDF : 17123823.6/16

Right Out: 689.055+/-0.304

χ^2/NDF : 8910364.4/18

Left In: 5138.157+/-1.056

χ^2/NDF : 976815.2/14

Left: 1708.311+/-0.373

χ^2/NDF : 30152001.8/31

Right: 804.723+/-0.244

χ^2/NDF : 17538883.1/34

In: 1553.554+/-0.382

χ^2/NDF : 22456155.4/30

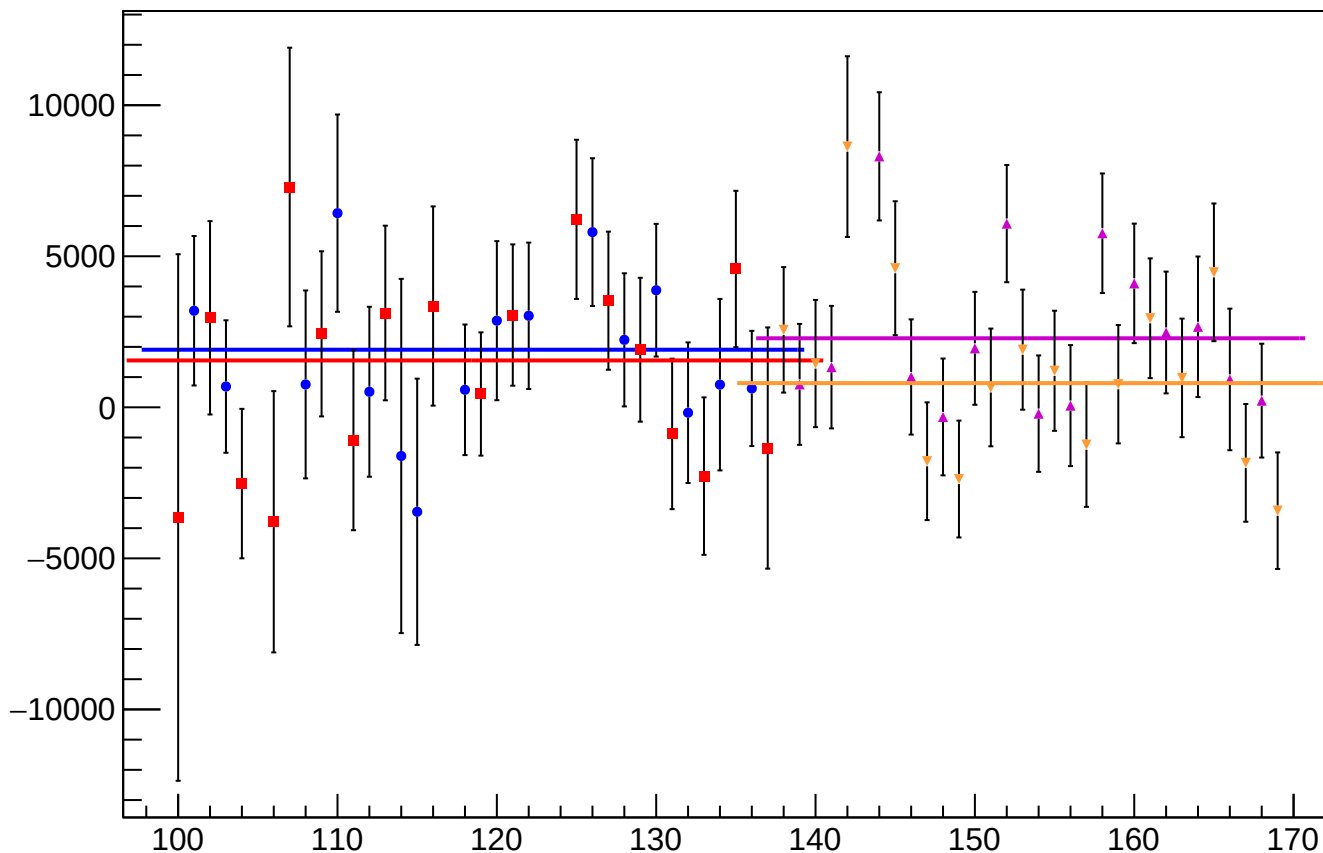
Out: 884.674+/-0.242

χ^2/NDF : 27153967.3/35

All: 1076.237+/-0.204

χ^2/NDF : 51798785.0/6

dit_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1906.205 $\pm$ 636.433 χ^2 /NDF: 10.2/15

Left Out: 800.242 $\pm$ 512.390 χ^2 /NDF: 26.8/15

Right Out: 1550.986 $\pm$ 661.054 χ^2 /NDF: 17.5/17

Left In: 2284.977 $\pm$ 517.488 χ^2 /NDF: 23.4/14

Left: 1535.260 $\pm$ 364.103 χ^2 /NDF: 54.4/30

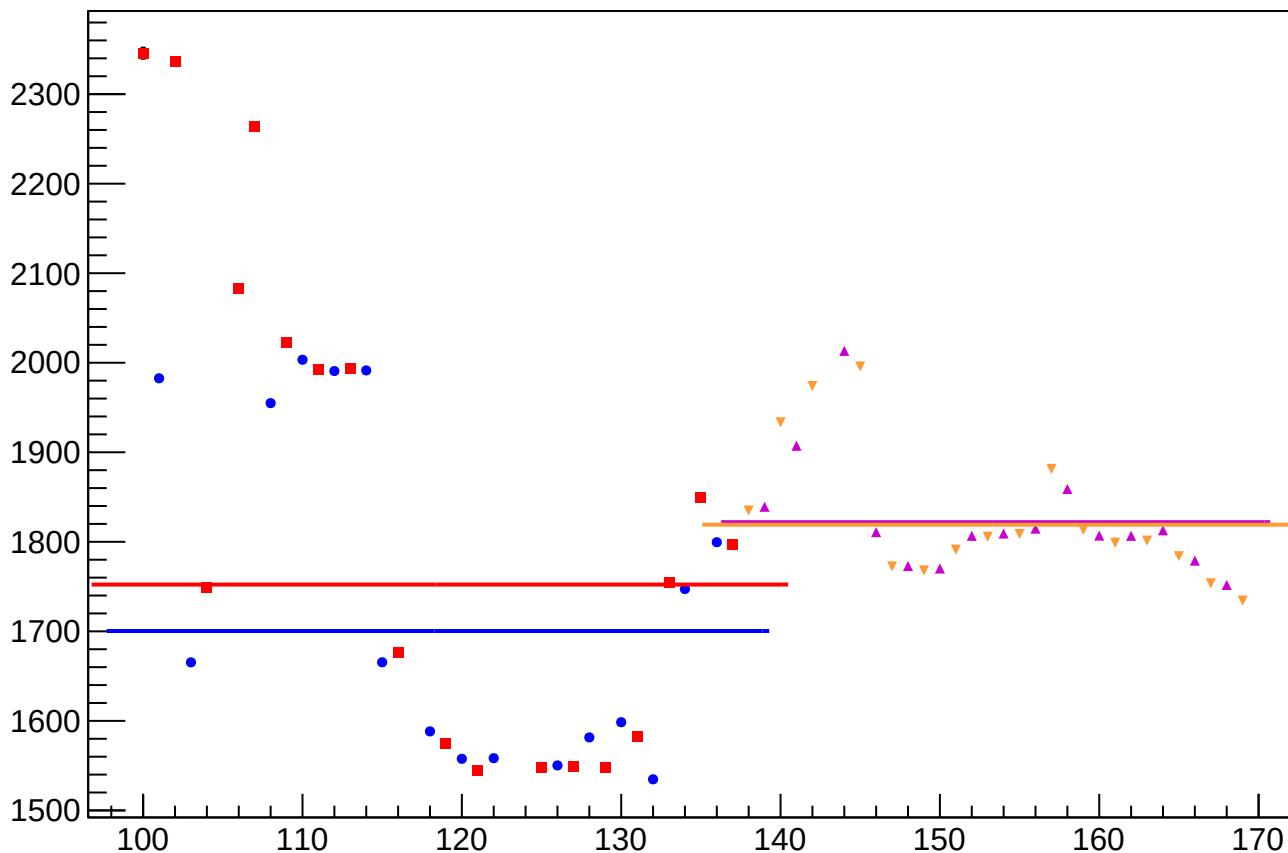
Right: 1735.334 $\pm$ 458.483 χ^2 /NDF: 27.8/33

In: 2134.224 $\pm$ 401.510 χ^2 /NDF: 33.8/30

Out: 1082.005 $\pm$ 404.979 χ^2 /NDF: 45.1/33

All: 1612.640 $\pm$ 285.129 χ^2 /NDF: 82.3/64

dit_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1700.357 $\pm$ 0.450 χ^2 /NDF: 135419.2/15

Left Out: 1819.113 $\pm$ 0.362 χ^2 /NDF:36001.1/15

Right Out: 1752.239 $\pm$ 0.466 χ^2 /NDF: 247952.8/17

Left In: 1821.935 $\pm$ 0.366 χ^2 /NDF:27478.3/14

Left: 1820.510 $\pm$ 0.257 χ^2 /NDF: 63509.5/30

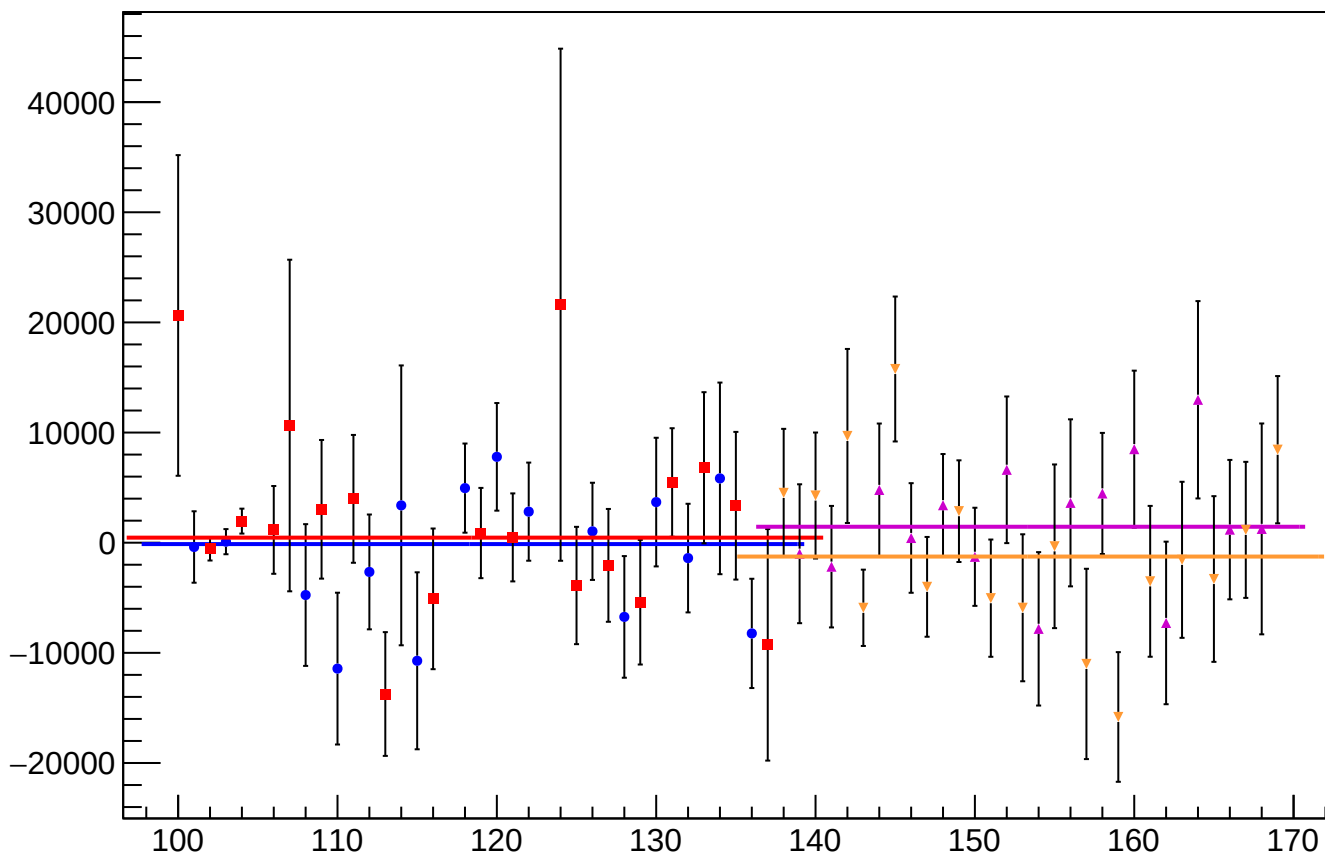
Right: 1725.373 $\pm$ 0.324 χ^2 /NDF: 389780.4/33

In: 1773.547 $\pm$ 0.284 χ^2 /NDF:206834.4/30

Out: 1793.943 $\pm$ 0.286 χ^2 /NDF:296776.3/33

All: 1783.666 $\pm$ 0.202 χ^2 /NDF: 506171.1/64

asym_atl_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -125.468+/-867.645 χ^2/NDF : 15.1/15

Left Out: -1258.274+/-1408.682 χ^2/NDF :24.4/16

Right Out: 459.431+/-679.157 χ^2/NDF : 18.5/18

Left In: 1448.288+/-1575.753 χ^2/NDF :8.3/14

Left: -56.036+/-1050.206 χ^2/NDF : 34.3/31

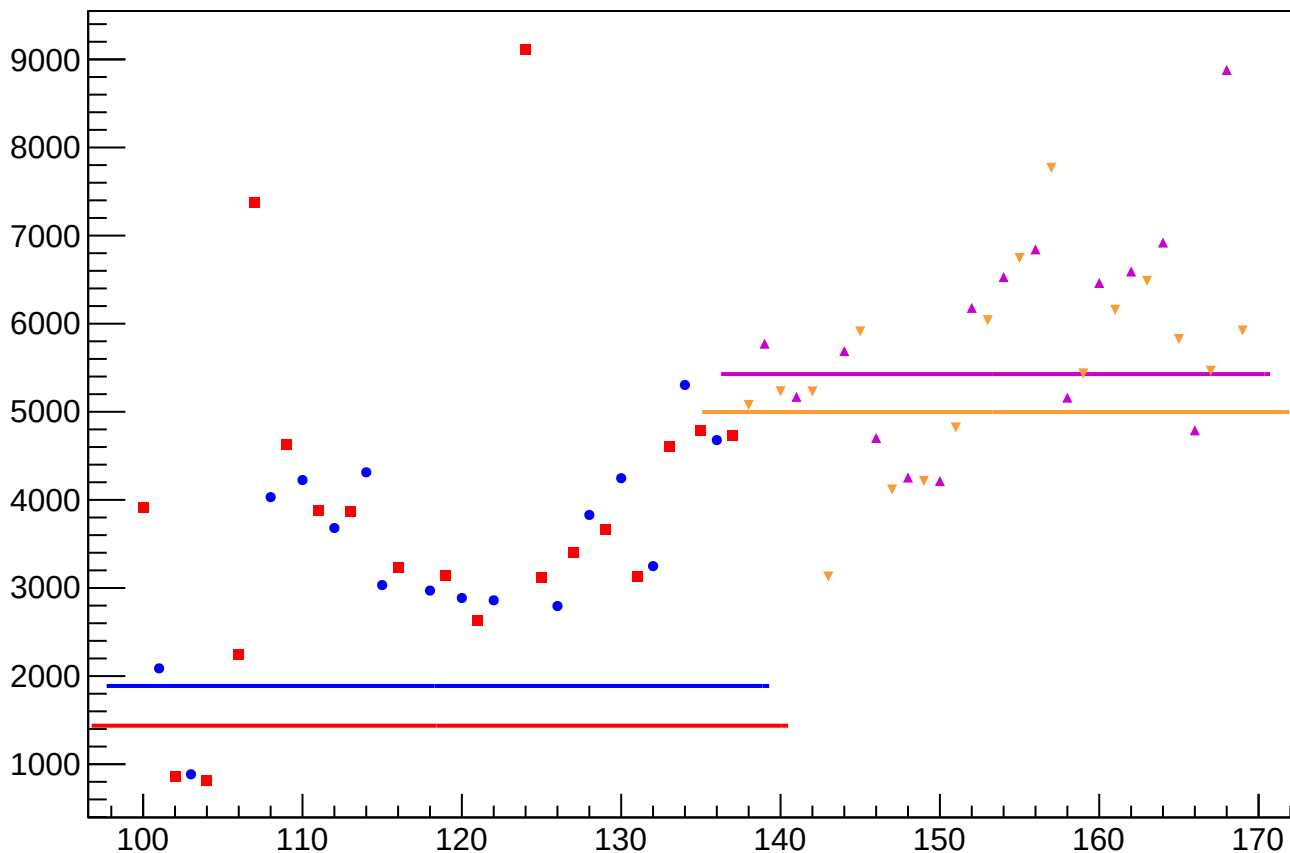
Right: 237.213+/-534.800 χ^2/NDF : 33.9/34

In: 240.666+/-760.045 χ^2/NDF :24.1/30

Out: 135.467+/-611.768 χ^2/NDF :44.1/35

All: 176.827+/-476.567 χ^2/NDF : 68.2/66

asym_atl_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1887.999 $\pm$ 0.614

χ^2 /NDF: 4425691.6/15

Left: 5188.658 $\pm$ 0.743 χ^2 /NDF: 2350946.1/31

Right: 1608.413 $\pm$ 0.378 χ^2 /NDF: 10724797.8/34

Left Out: 4997.095 $\pm$ 0.996

χ^2 /NDF: 1356676.2/16

In: 2711.660 $\pm$ 0.537 χ^2 /NDF: 13083836.0/30

Right Out: 1437.108 $\pm$ 0.480

χ^2 /NDF: 5964193.5/18

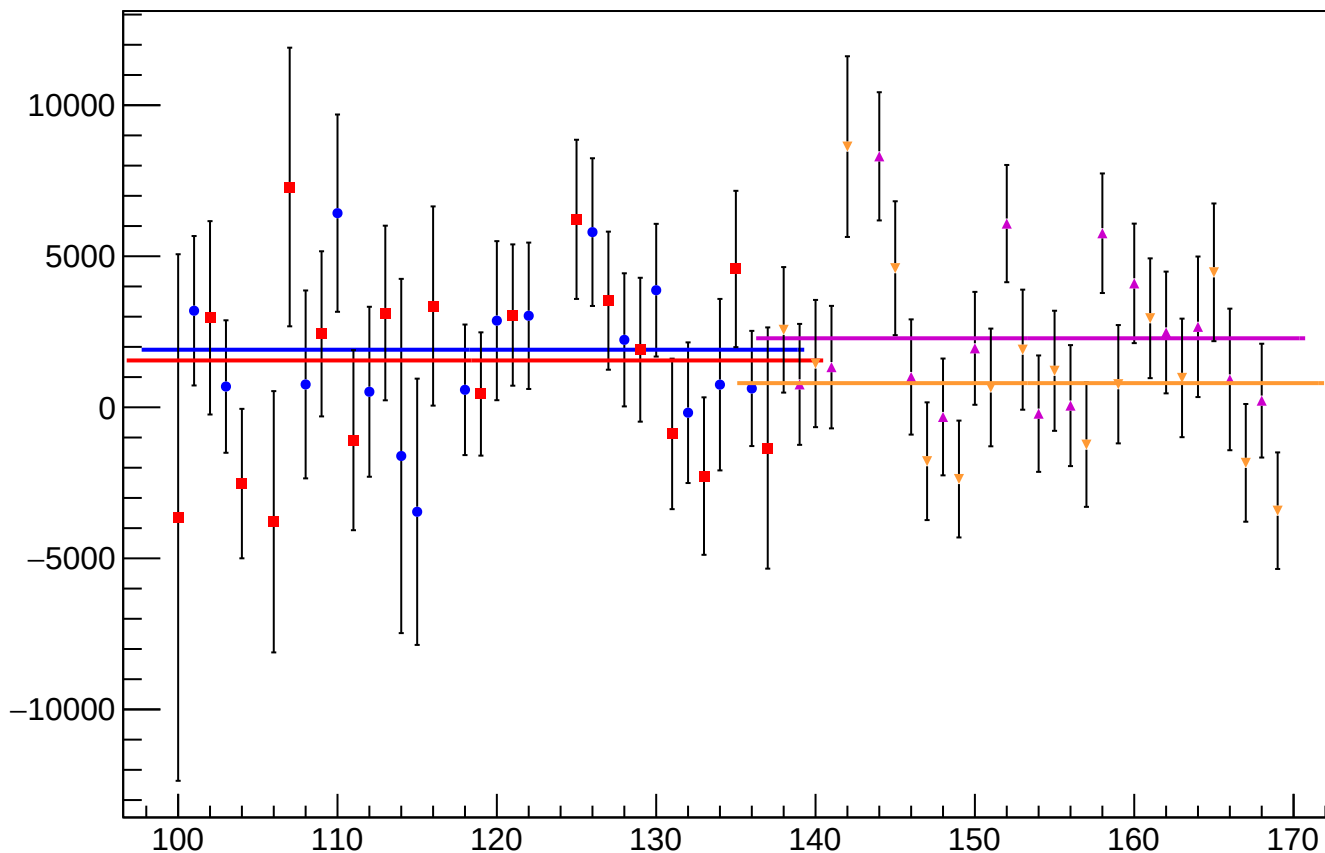
Out: 2108.531 $\pm$ 0.433 χ^2 /NDF: 17685044.1/35

Left In: 5428.355 $\pm$ 1.114

χ^2 /NDF: 911006.6/14

All: 2345.657 $\pm$ 0.337 χ^2 /NDF: 31533148.1/6

eigen_dit_asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1906.203 $\pm$ 636.433 χ^2 /NDF: 10.2/15

Left Out: 800.238 $\pm$ 512.390 χ^2 /NDF:26.8/15

Right Out: 1550.983 $\pm$ 661.054 χ^2 /NDF: 17.5/17

Left In: 2284.978 $\pm$ 517.488 χ^2 /NDF:23.4/14

Left: 1535.259 $\pm$ 364.104 χ^2 /NDF: 54.4/30

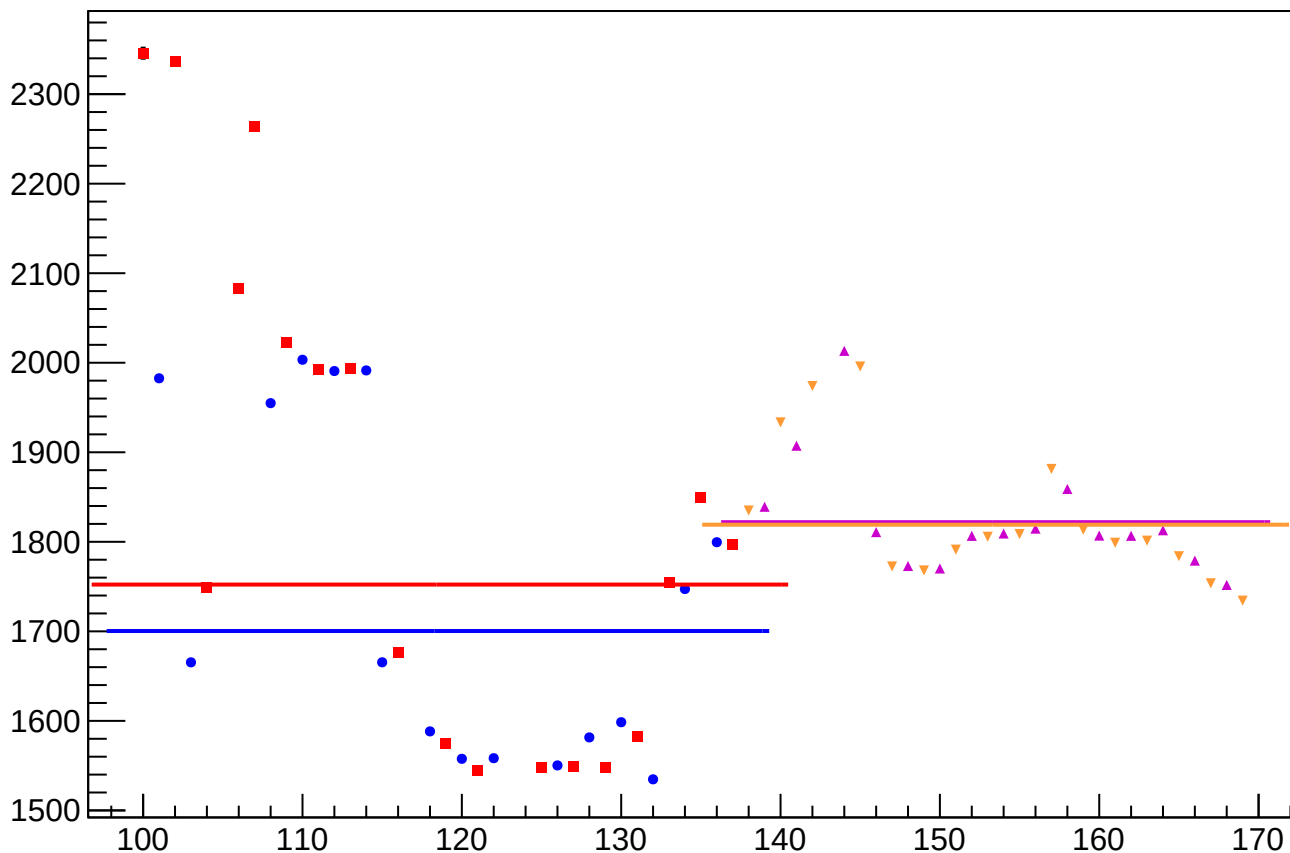
Right: 1735.331 $\pm$ 458.483 χ^2 /NDF: 27.8/33

In: 2134.224 $\pm$ 401.511 χ^2 /NDF:33.8/30

Out: 1082.001 $\pm$ 404.979 χ^2 /NDF:45.1/33

All: 1612.638 $\pm$ 285.129 χ^2 /NDF: 82.3/64

eigen_dit_asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 1700.357+/-0.450 χ^2/NDF : 135419.5/15

Left Out: 1819.114+/-0.362 χ^2/NDF : 36001.8/15

Right Out: 1752.238+/-0.466 χ^2/NDF : 247952.3/17

Left In: 1821.936+/-0.366 χ^2/NDF : 27478.7/14

Left: 1820.511+/-0.257 χ^2/NDF : 63510.6/30

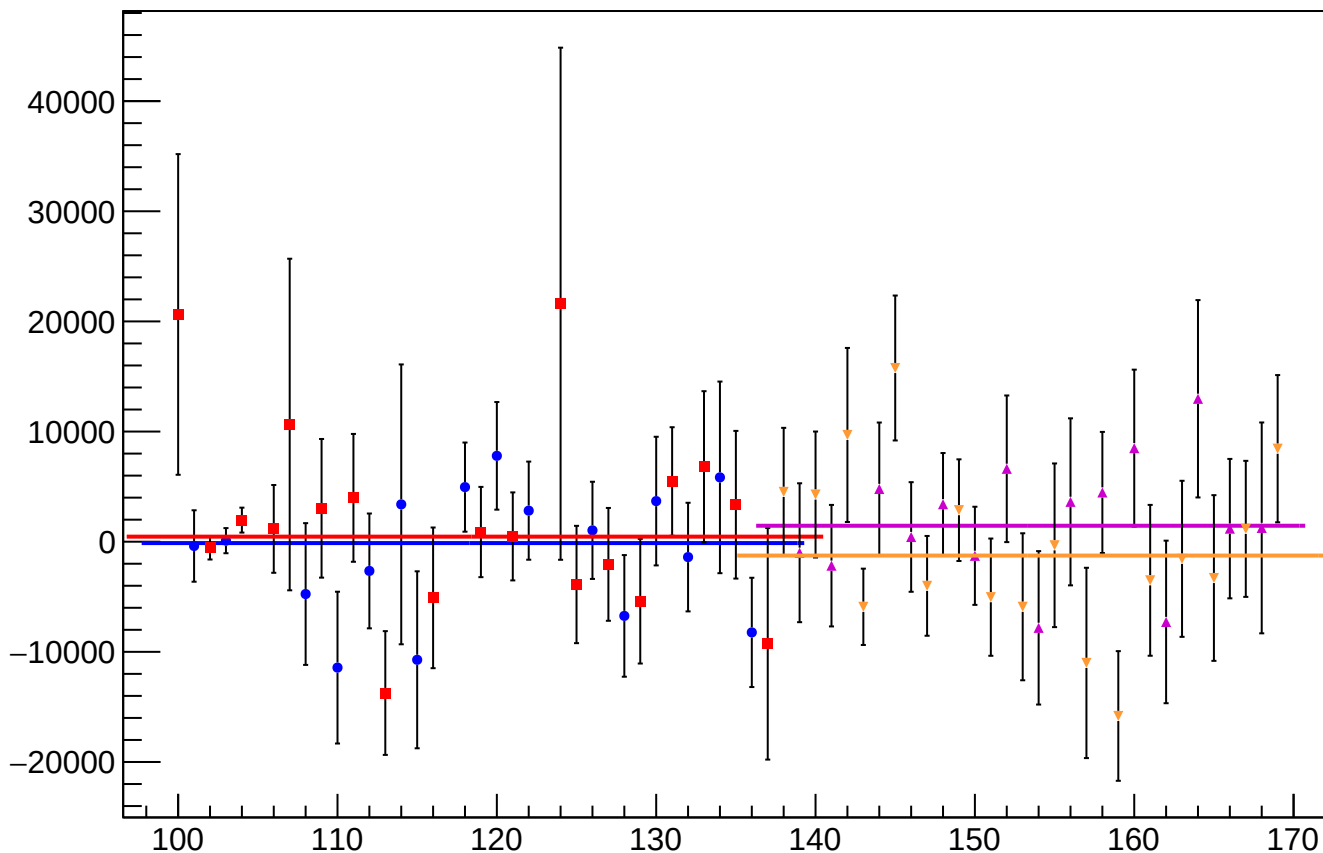
Right: 1725.372+/-0.324 χ^2/NDF : 389780.1/33

In: 1773.547+/-0.284 χ^2/NDF : 206836.0/30

Out: 1793.943+/-0.286 χ^2/NDF : 296777.1/33

All: 1783.666+/-0.202 χ^2/NDF : 506173.6/64

asym_atl_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -125.464 $\pm$ 867.639 χ^2 /NDF: 15.1/15

Left Out: -1258.280 $\pm$ 1408.683 χ^2 /NDF:24.4/16

Right Out: 459.430 $\pm$ 679.152 χ^2 /NDF: 18.5/18

Left In: 1448.288 $\pm$ 1575.756 χ^2 /NDF:8.3/14

Left: -56.039 $\pm$ 1050.207 χ^2 /NDF: 34.3/31

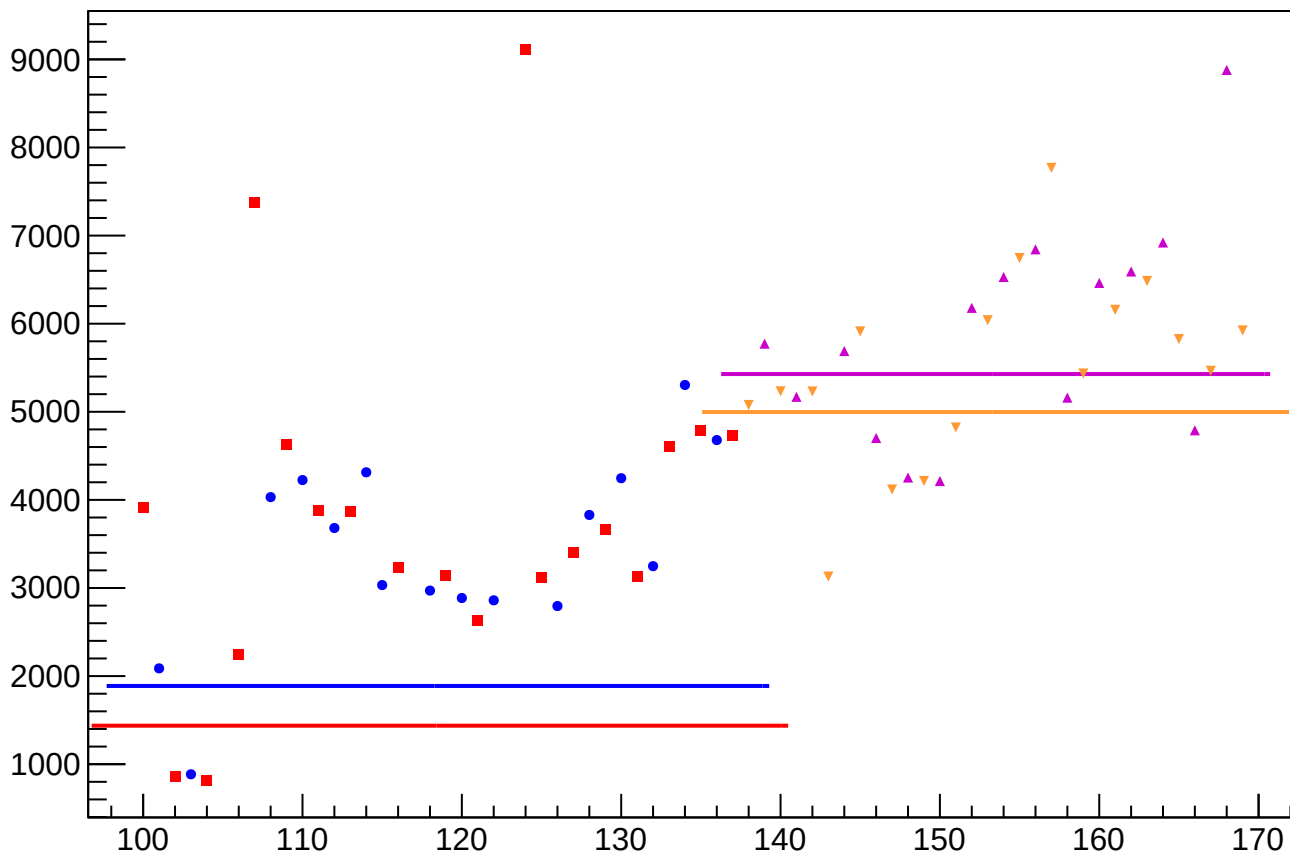
Right: 237.214 $\pm$ 534.797 χ^2 /NDF: 33.9/34

In: 240.664 $\pm$ 760.041 χ^2 /NDF:24.1/30

Out: 135.470 $\pm$ 611.765 χ^2 /NDF:44.1/35

All: 176.828 $\pm$ 476.564 χ^2 /NDF: 68.2/66

asym_atl_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1887.982+/-0.614

χ^2/NDF : 4425728.6/15

Left: 5188.664+/-0.743 χ^2/NDF : 2350957.5/31

Right: 1608.398+/-0.378 χ^2/NDF : 10724869.8/34

Left Out: 4997.100+/-0.996

χ^2/NDF : 1356683.7/16

In: 2711.639+/-0.537 χ^2/NDF : 13083986.5/30

Right Out: 1437.095+/-0.480

χ^2/NDF : 5964228.2/18

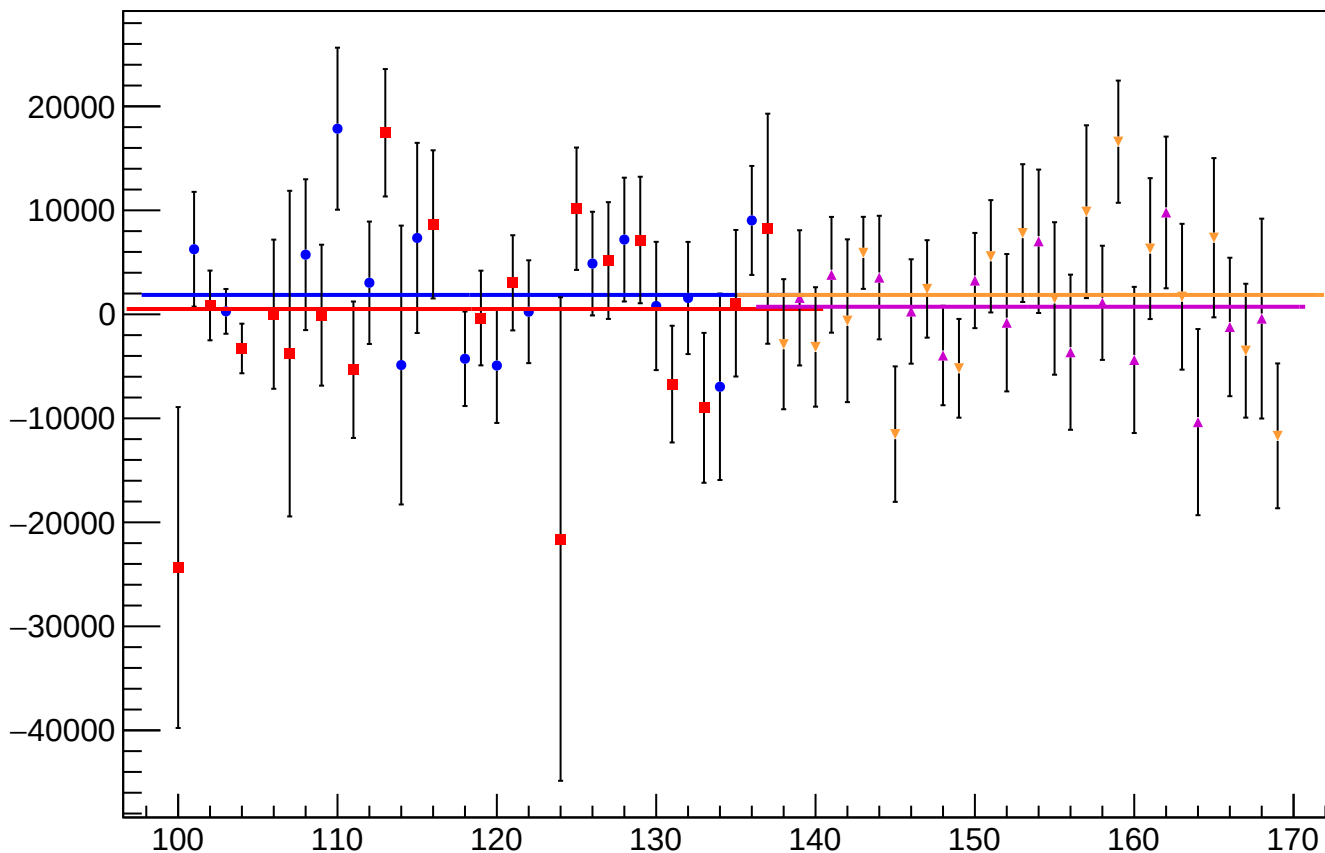
Out: 2108.512+/-0.433 χ^2/NDF : 17685204.1/35

Left In: 5428.362+/-1.114

χ^2/NDF : 911009.9/14

All: 2345.637+/-0.337 χ^2/NDF : 31533462.6/6

asym_atl_avg_mean vs Slug, Sign Corrected



Right In: 1866.618 $\pm$ 1259.187 χ^2 /NDF: 13.8/15

Left Out: 1864.745 $\pm$ 1425.489 χ^2 /NDF:23.2/16

Right Out: 512.528 $\pm$ 1241.513 χ^2 /NDF: 24.7/18

Left In: 727.853 $\pm$ 1590.229 χ^2 /NDF:6.8/14

Left: 1358.220 $\pm$ 1061.453 χ^2 /NDF: 30.2/31

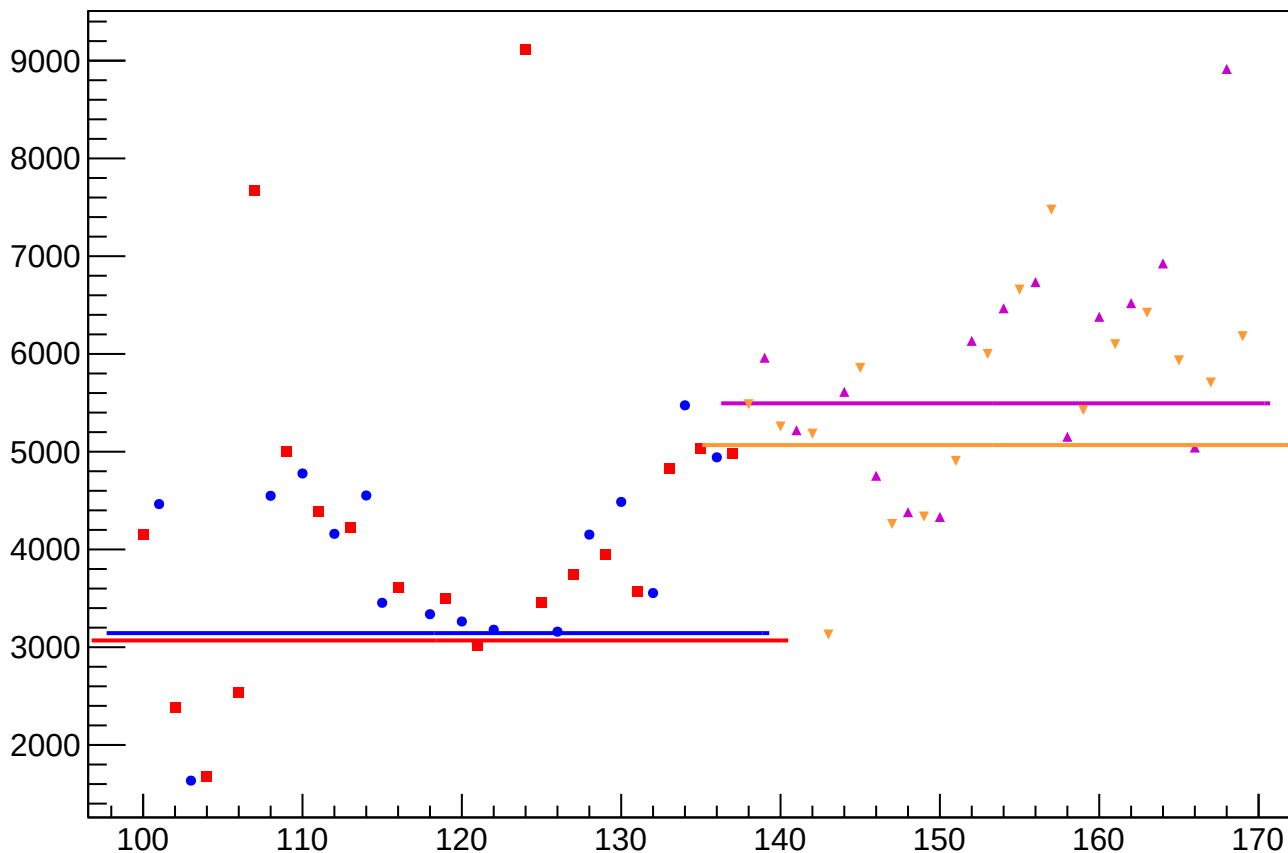
Right: 1180.003 $\pm$ 884.065 χ^2 /NDF: 39.1/34

In: 1427.774 $\pm$ 987.183 χ^2 /NDF:20.9/30

Out: 1095.800 $\pm$ 936.216 χ^2 /NDF:48.4/35

All: 1252.996 $\pm$ 679.308 χ^2 /NDF: 69.3/66

asym_atl_avg_rms vs Slug, Sign Corrected



Right In: 3144.136+/-0.890 χ^2/NDF : 1883139.2/15

Left Out: 5067.660+/-1.008 χ^2/NDF : 1301926.2/16

Right Out: 3069.098+/-0.864 χ^2/NDF : 1881644.6/18

Left In: 5494.693+/-1.124 χ^2/NDF : 803447.2/14

Left: 5257.918+/-0.751 χ^2/NDF : 2185339.7/31

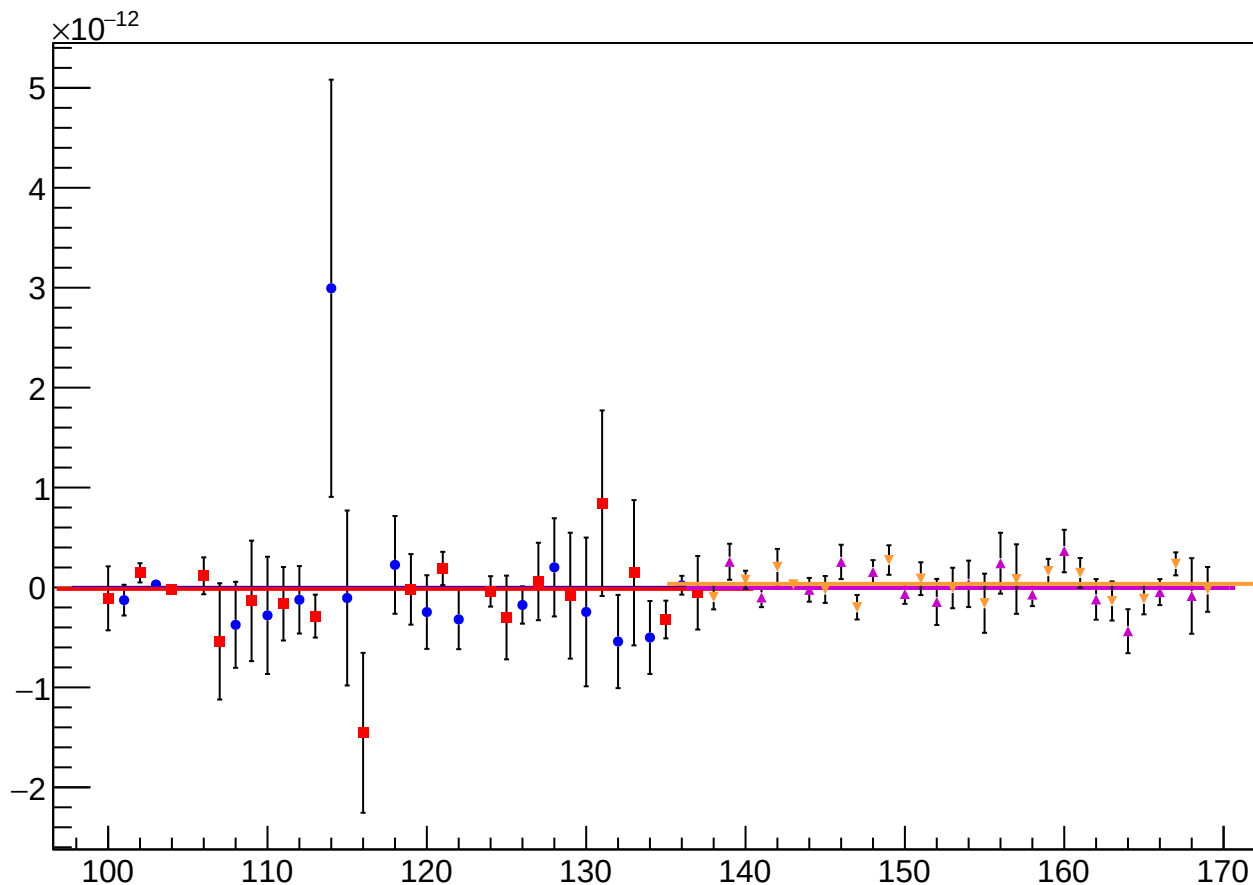
Right: 3105.498+/-0.620 χ^2/NDF : 3768440.9/34

In: 4049.964+/-0.698 χ^2/NDF : 5372348.3/30

Out: 3915.804+/-0.656 χ^2/NDF : 5449350.8/35

All: 3978.731+/-0.478 χ^2/NDF : 10841312.0/66

asym_atl_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 10.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :15.7/16

Right Out: -0.000+/-0.000 χ^2/NDF : 14.9/18

Left In: -0.000+/-0.000 χ^2/NDF :16.3/14

Left: 0.000+/-0.000 χ^2/NDF : 33.0/31

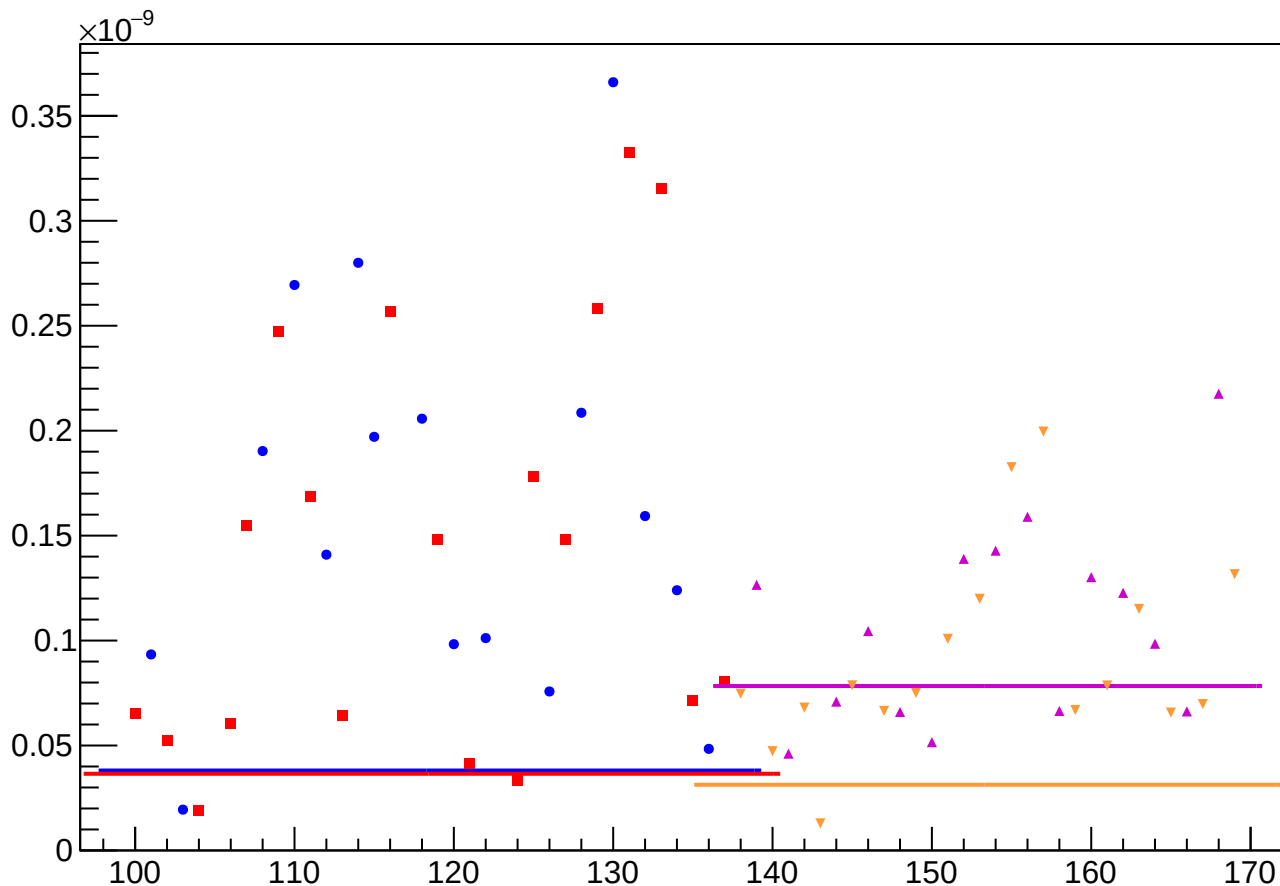
Right: -0.000+/-0.000 χ^2/NDF : 25.6/34

In: -0.000+/-0.000 χ^2/NDF :27.0/30

Out: 0.000+/-0.000 χ^2/NDF :32.4/35

All: 0.000+/-0.000 χ^2/NDF : 60.2/66

asym_atl_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2888502.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :5410241.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2683451.3/18

Left In: 0.000+/-0.000 χ^2/NDF :1559419.3/14

Left: 0.000+/-0.000 χ^2/NDF : 9327047.6/31

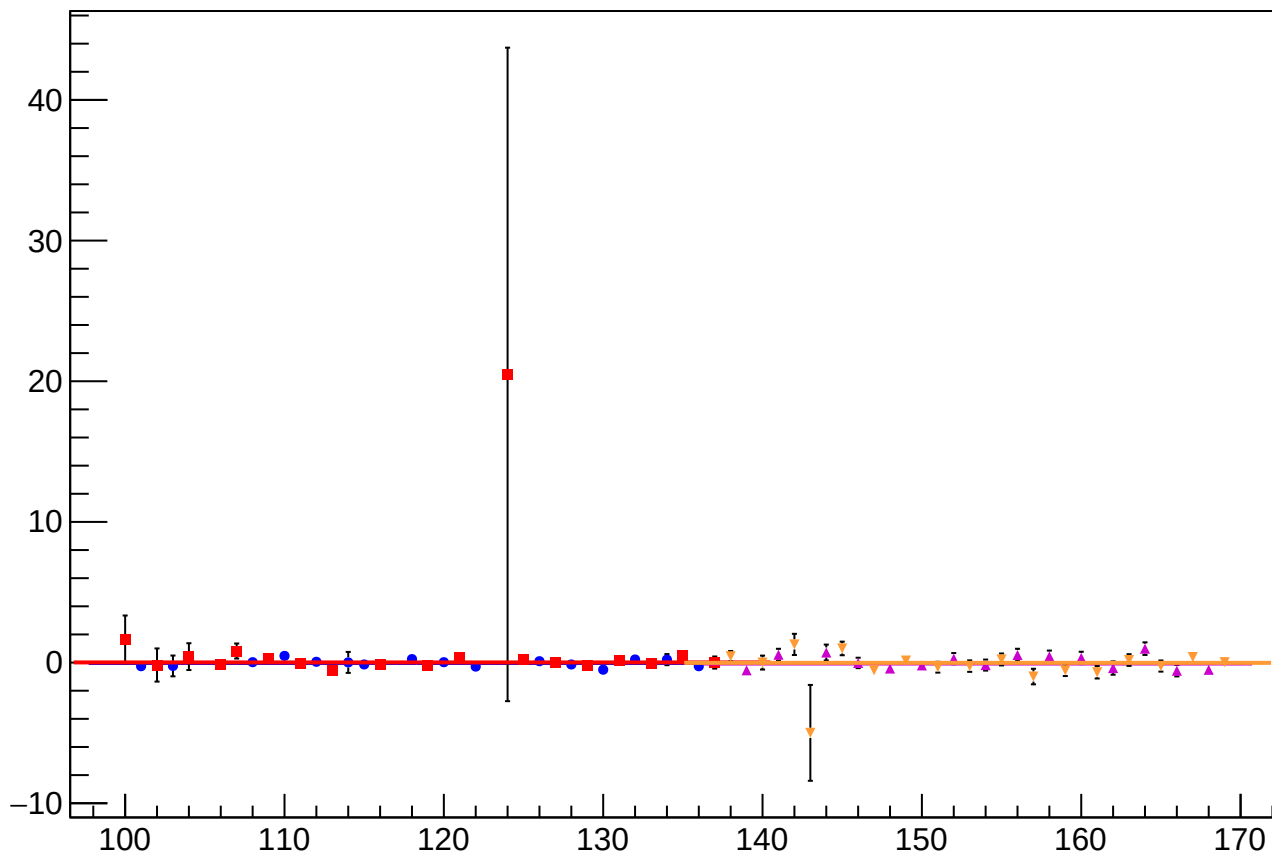
Right: 0.000+/-0.000 χ^2/NDF : 5574117.1/34

In: 0.000+/-0.000 χ^2/NDF :5674055.2/30

Out: 0.000+/-0.000 χ^2/NDF :8131533.5/35

All: 0.000+/-0.000 χ^2/NDF : 14933812.2/66

asym_atl_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.058 $\chi^2/\text{NDF}: 17.2/15$

Left Out: -0.020 ± 0.092 $\chi^2/\text{NDF}: 25.1/16$

Right Out: 0.011 ± 0.057 $\chi^2/\text{NDF}: 21.8/18$

Left In: -0.067 ± 0.098 $\chi^2/\text{NDF}: 23.8/14$

Left: -0.042 ± 0.067 $\chi^2/\text{NDF}: 49.0/31$

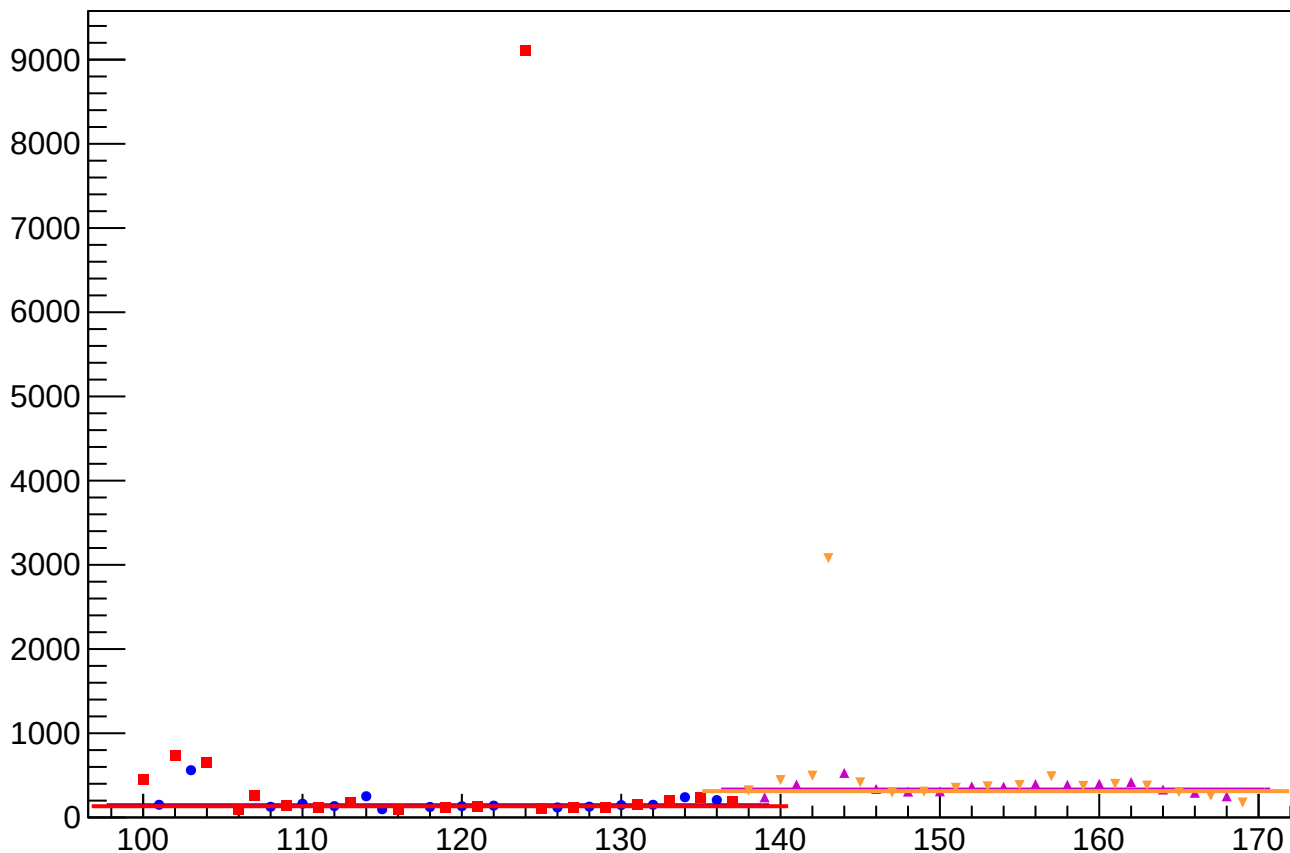
Right: -0.009 ± 0.040 $\chi^2/\text{NDF}: 39.3/34$

In: -0.039 ± 0.050 $\chi^2/\text{NDF}: 41.1/30$

Out: 0.002 ± 0.048 $\chi^2/\text{NDF}: 46.9/35$

All: -0.017 ± 0.035 $\chi^2/\text{NDF}: 88.4/66$

asym_atl_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 144.291+/-0.041 χ^2/NDF : 1128779.2/15

Left Out: 312.578+/-0.065 χ^2/NDF : 3163767.4/16

Right Out: 133.253+/-0.040 χ^2/NDF : 2220645.6/18

Left In: 331.349+/-0.069 χ^2/NDF : 947097.7/14

Left: 321.438+/-0.047 χ^2/NDF : 4149939.0/31

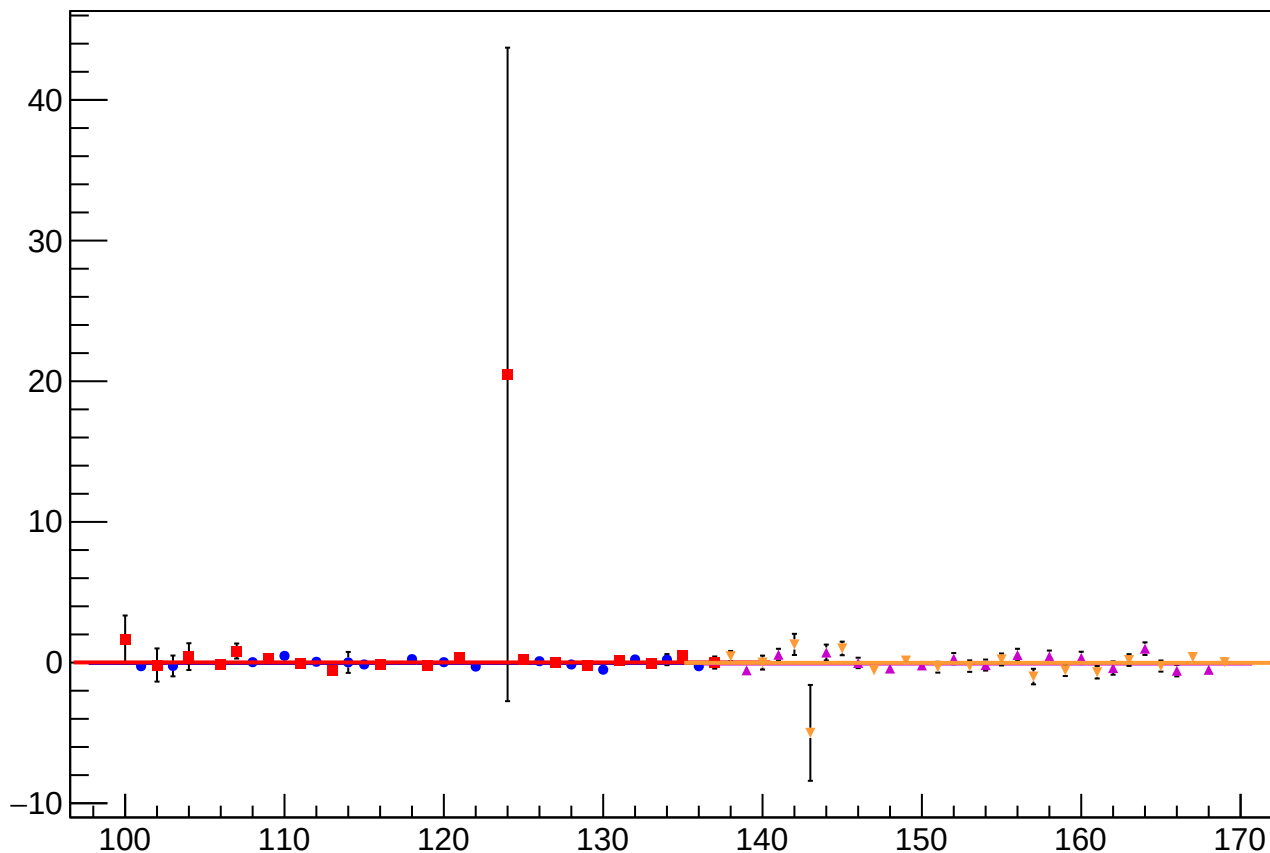
Right: 138.645+/-0.029 χ^2/NDF : 3386693.8/34

In: 192.905+/-0.035 χ^2/NDF : 7514699.5/30

Out: 182.173+/-0.034 χ^2/NDF : 10878241.4/35

All: 187.368+/-0.024 χ^2/NDF : 18440955.3/66

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.058 χ^2/NDF : 17.2/15

Left Out: -0.020 ± 0.092 χ^2/NDF : 25.1/16

Right Out: 0.011 ± 0.057 χ^2/NDF : 21.8/18

Left In: -0.067 ± 0.098 χ^2/NDF : 23.8/14

Left: -0.042 ± 0.067 χ^2/NDF : 49.0/31

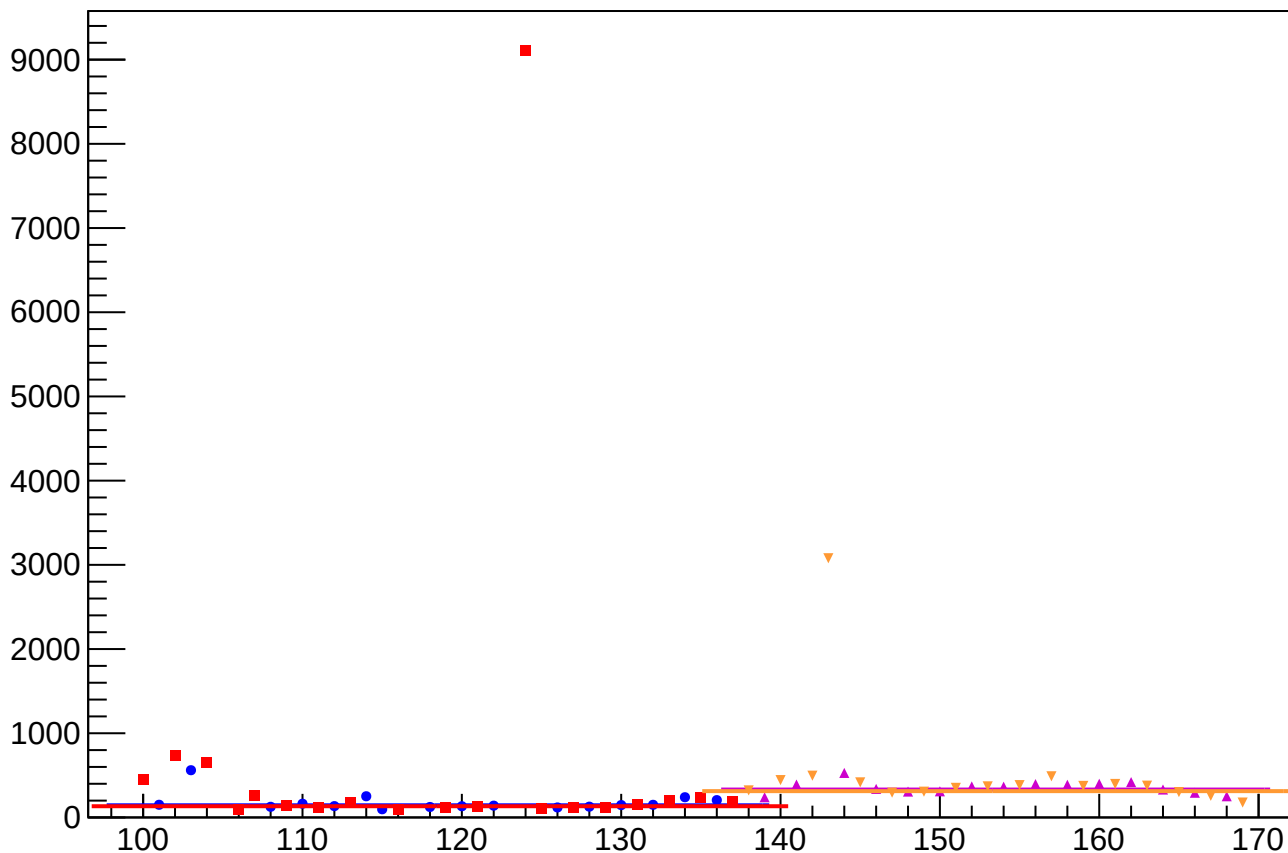
Right: -0.009 ± 0.040 χ^2/NDF : 39.3/34

In: -0.039 ± 0.050 χ^2/NDF : 41.1/30

Out: 0.002 ± 0.048 χ^2/NDF : 46.9/35

All: -0.017 ± 0.035 χ^2/NDF : 88.4/66

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 144.291 $\pm$ 0.041 χ^2 /NDF: 1128779.2/15

Left Out: 312.578 $\pm$ 0.065 χ^2 /NDF: 3163767.4/16

Right Out: 133.253 $\pm$ 0.040 χ^2 /NDF: 2220645.6/18

Left In: 331.349 $\pm$ 0.069 χ^2 /NDF: 947097.7/14

Left: 321.438 $\pm$ 0.047 χ^2 /NDF: 4149939.0/31

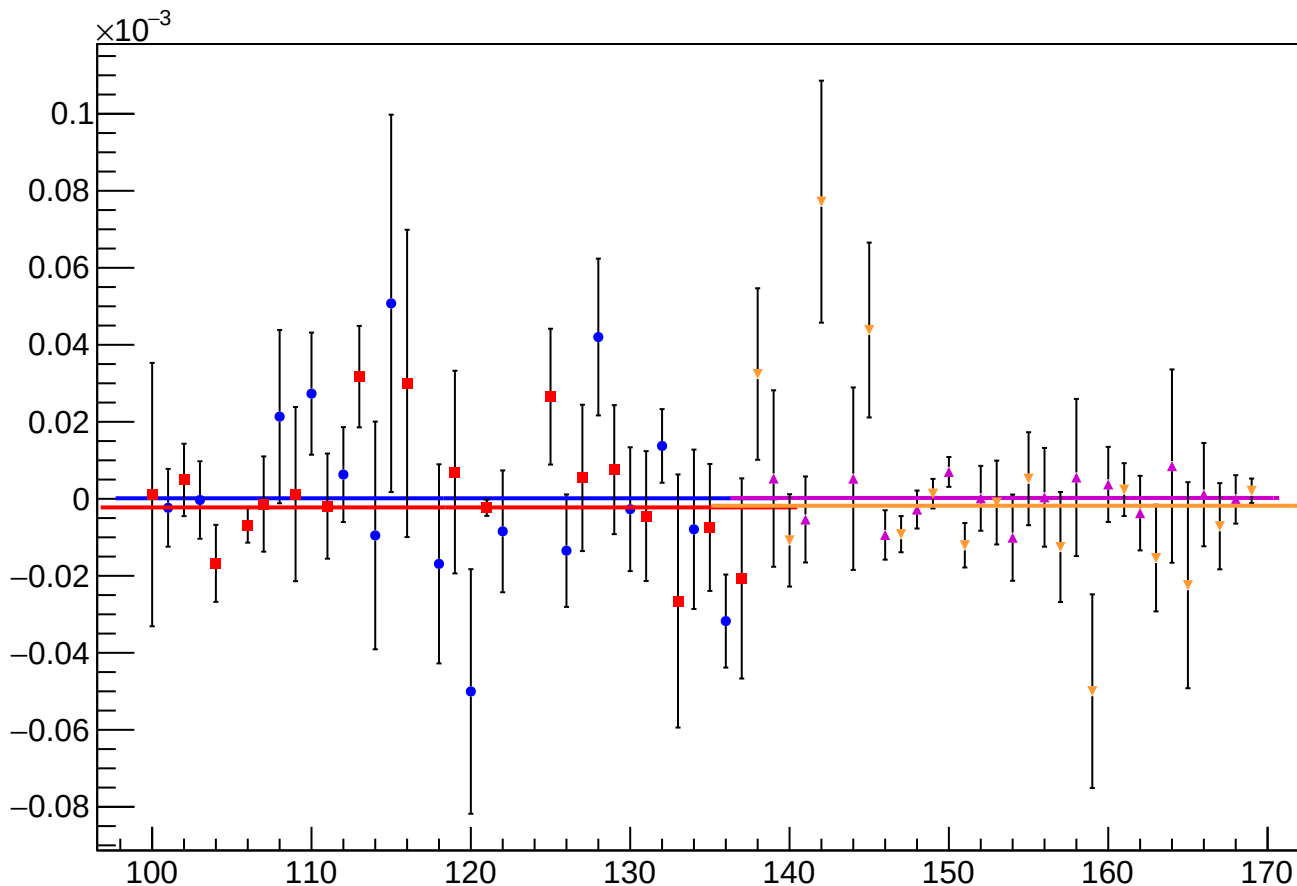
Right: 138.645 $\pm$ 0.029 χ^2 /NDF: 3386693.8/34

In: 192.905 $\pm$ 0.035 χ^2 /NDF: 7514699.5/30

Out: 182.173 $\pm$ 0.034 χ^2 /NDF: 10878241.4/35

All: 187.368 $\pm$ 0.024 χ^2 /NDF: 18440955.3/66

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 27.8/15$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 15.6/17$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 7.3/14$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 35.6/30$

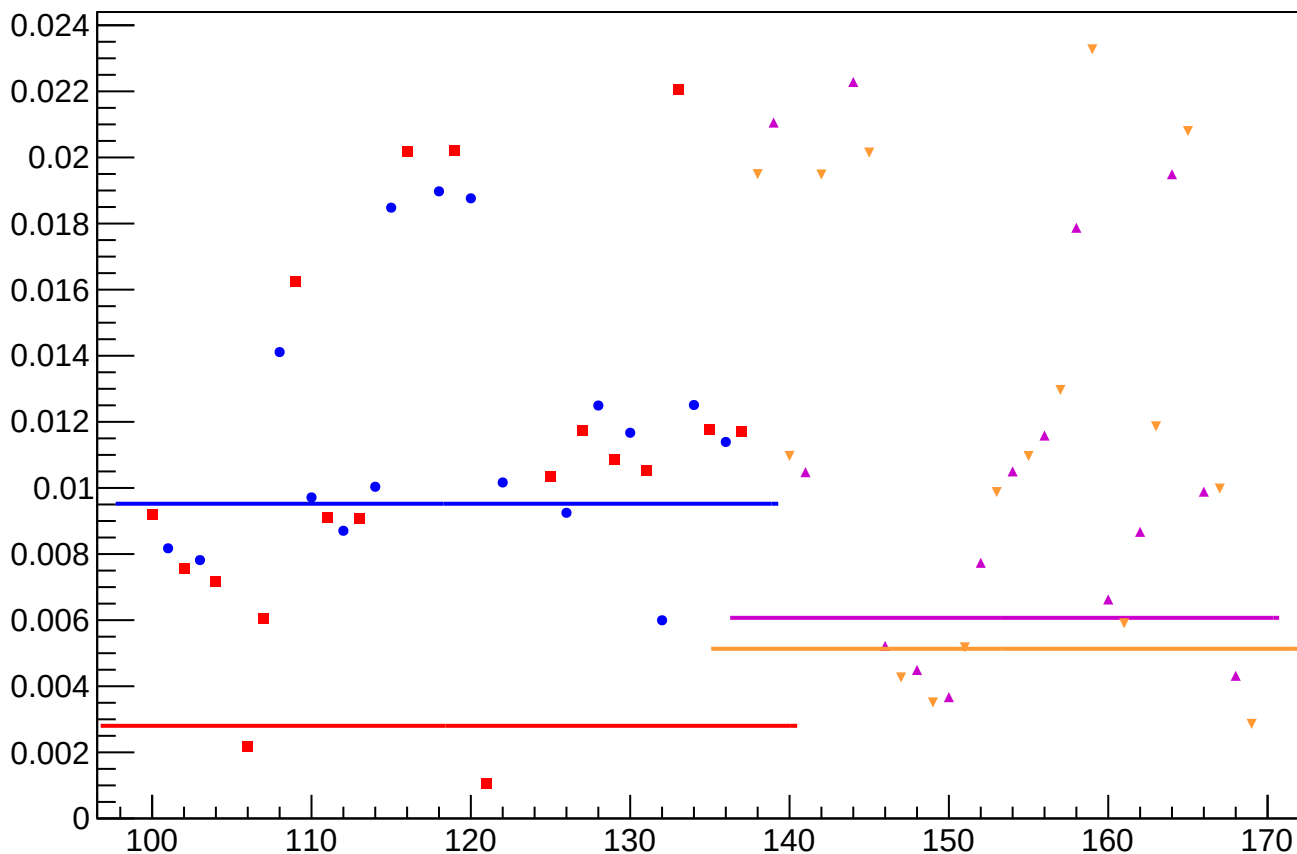
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 38.7/33$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 30.1/30$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 43.4/33$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 74.5/64$

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1132946.4/15

Left Out: 0.005+/-0.000 χ^2/NDF : 8081192.2/15

Right Out: 0.003+/-0.000 χ^2/NDF : 8568874.3/17

Left In: 0.006+/-0.000 χ^2/NDF : 5578442.3/14

Left: 0.006+/-0.000 χ^2/NDF : 13890066.2/30

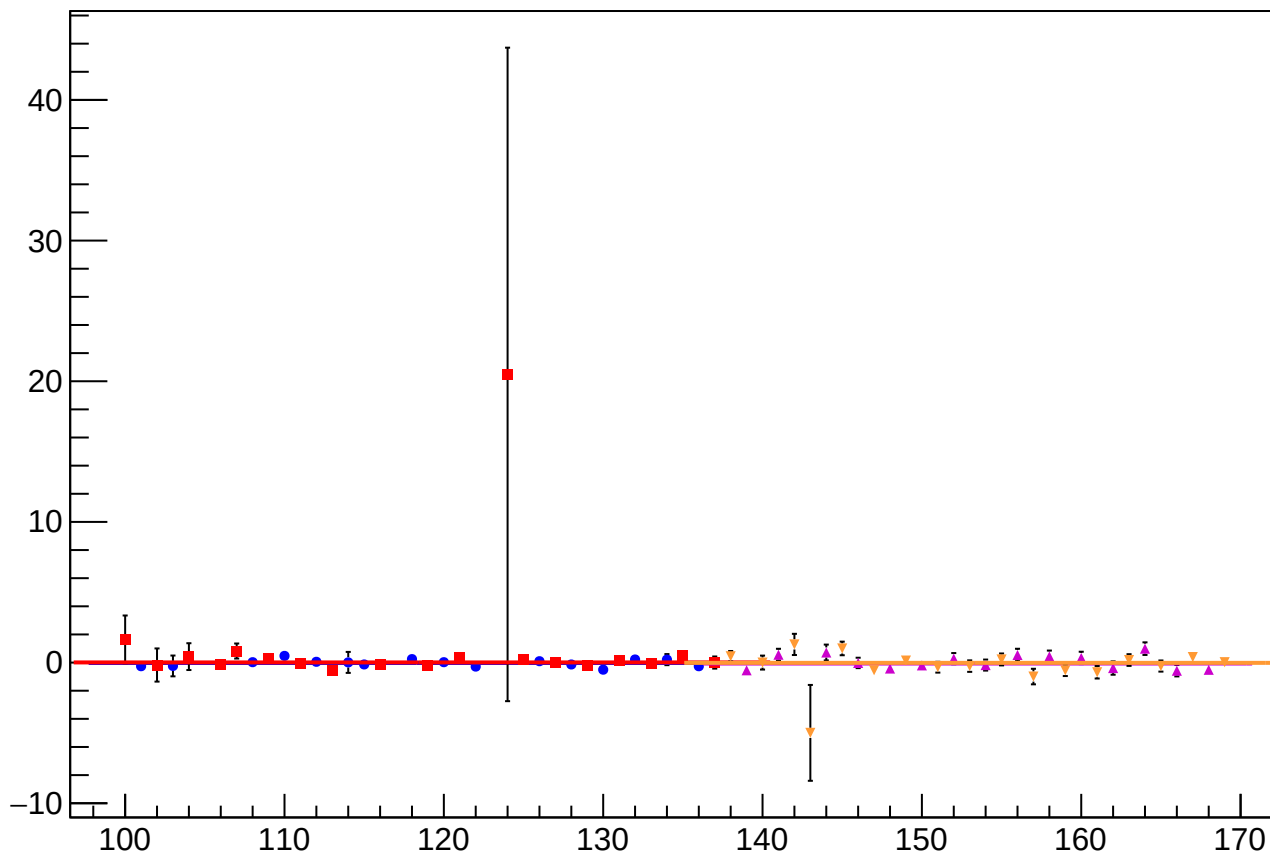
Right: 0.004+/-0.000 χ^2/NDF : 15020072.2/33

In: 0.007+/-0.000 χ^2/NDF : 8005856.8/30

Out: 0.004+/-0.000 χ^2/NDF : 18410477.7/33

All: 0.005+/-0.000 χ^2/NDF : 30036812.0/64

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.058 χ^2/NDF : 17.2/15

Left Out: -0.020 ± 0.092 χ^2/NDF : 25.1/16

Right Out: 0.011 ± 0.057 χ^2/NDF : 21.8/18

Left In: -0.067 ± 0.098 χ^2/NDF : 23.8/14

Left: -0.042 ± 0.067 χ^2/NDF : 49.0/31

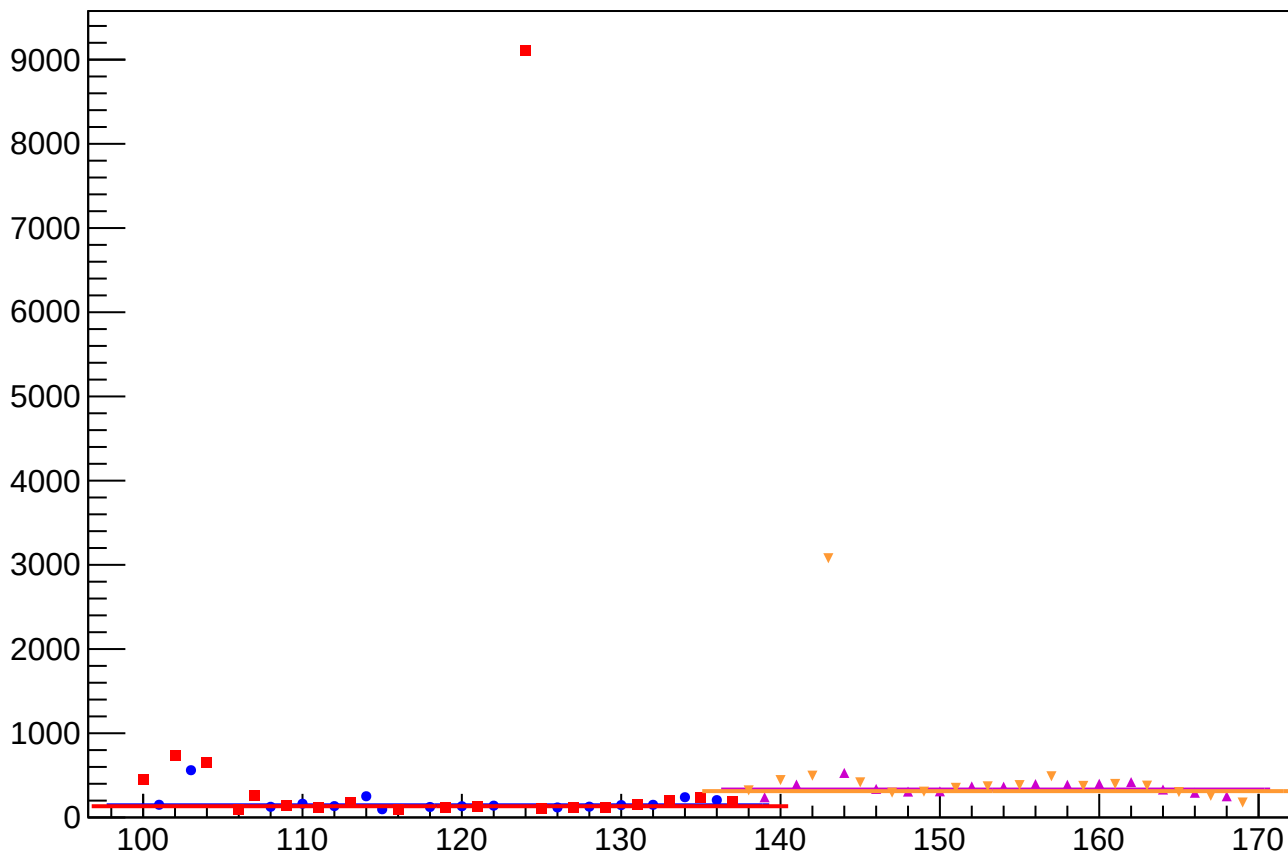
Right: -0.009 ± 0.040 χ^2/NDF : 39.3/34

In: -0.039 ± 0.050 χ^2/NDF : 41.1/30

Out: 0.002 ± 0.048 χ^2/NDF : 46.9/35

All: -0.017 ± 0.035 χ^2/NDF : 88.4/66

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 144.289 ± 0.041 χ^2/NDF : 1128804.3/15

Left Out: 312.581 ± 0.065 χ^2/NDF : 3163847.0/16

Right Out: 133.253 ± 0.040 χ^2/NDF : 2220606.0/18

Left In: 331.354 ± 0.069 χ^2/NDF : 947099.3/14

Left: 321.442 ± 0.047 χ^2/NDF : 4150026.8/31

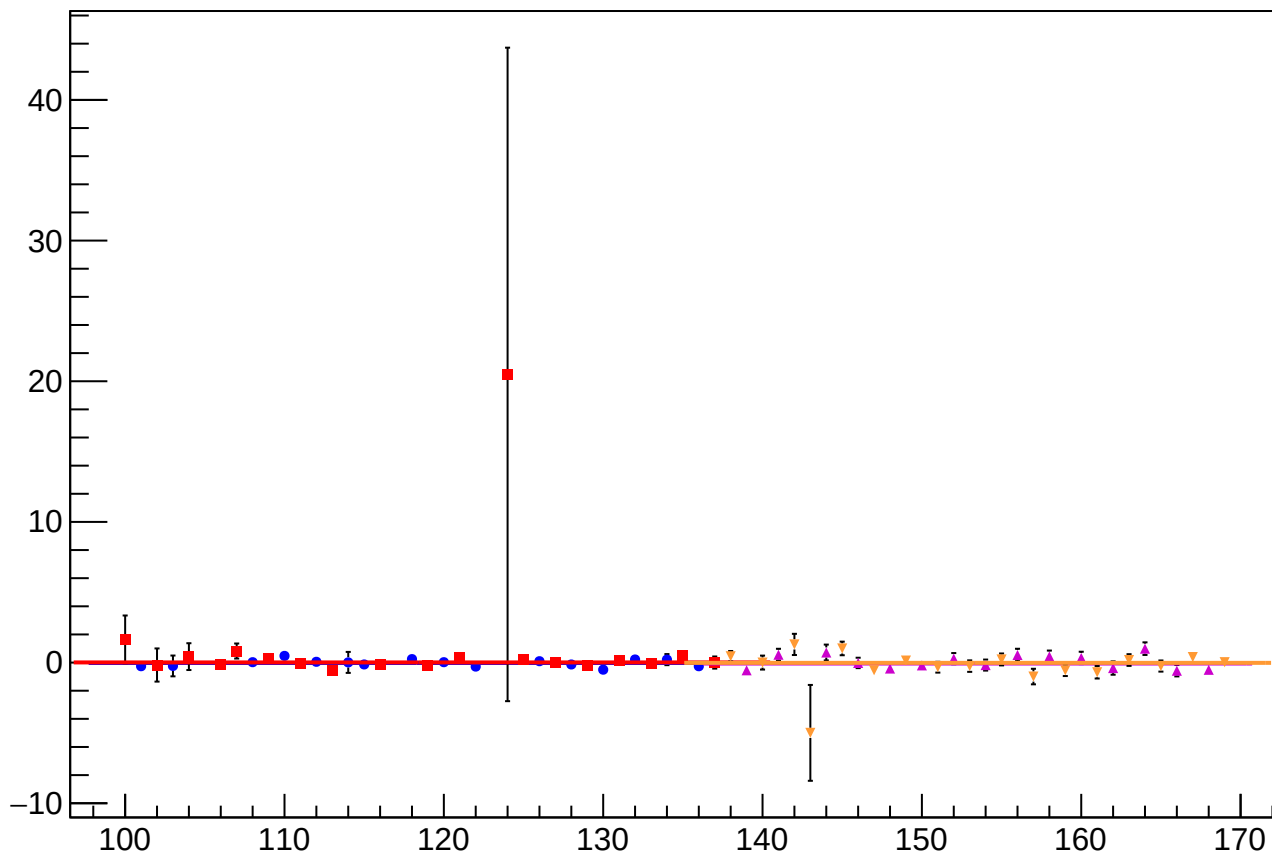
Right: 138.644 ± 0.029 χ^2/NDF : 3386673.9/34

In: 192.903 ± 0.035 χ^2/NDF : 7515000.4/30

Out: 182.172 ± 0.034 χ^2/NDF : 10878437.4/35

All: 187.367 ± 0.024 χ^2/NDF : 18441446.7/66

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.029 ± 0.058 χ^2/NDF : 17.2/15

Left Out: -0.020 ± 0.092 χ^2/NDF : 25.1/16

Right Out: 0.011 ± 0.057 χ^2/NDF : 21.8/18

Left In: -0.067 ± 0.098 χ^2/NDF : 23.8/14

Left: -0.042 ± 0.067 χ^2/NDF : 49.0/31

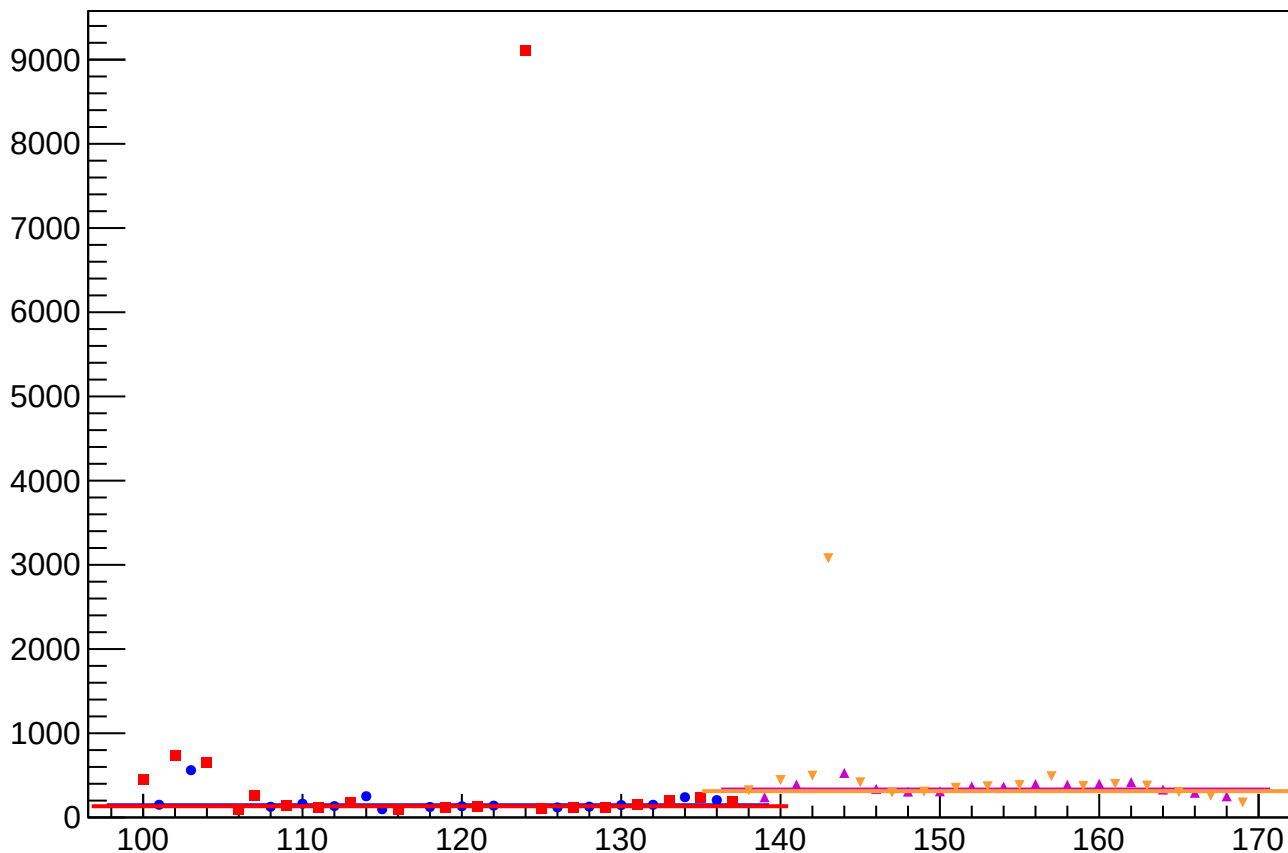
Right: -0.009 ± 0.040 χ^2/NDF : 39.3/34

In: -0.039 ± 0.050 χ^2/NDF : 41.1/30

Out: 0.002 ± 0.048 χ^2/NDF : 46.9/35

All: -0.017 ± 0.035 χ^2/NDF : 88.4/66

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 144.289+/-0.041 χ^2/NDF : 1128804.3/15

Left Out: 312.581+/-0.065 χ^2/NDF : 3163847.0/16

Right Out: 133.253+/-0.040 χ^2/NDF : 2220606.0/18

Left In: 331.354+/-0.069 χ^2/NDF : 947099.3/14

Left: 321.442+/-0.047 χ^2/NDF : 4150026.8/31

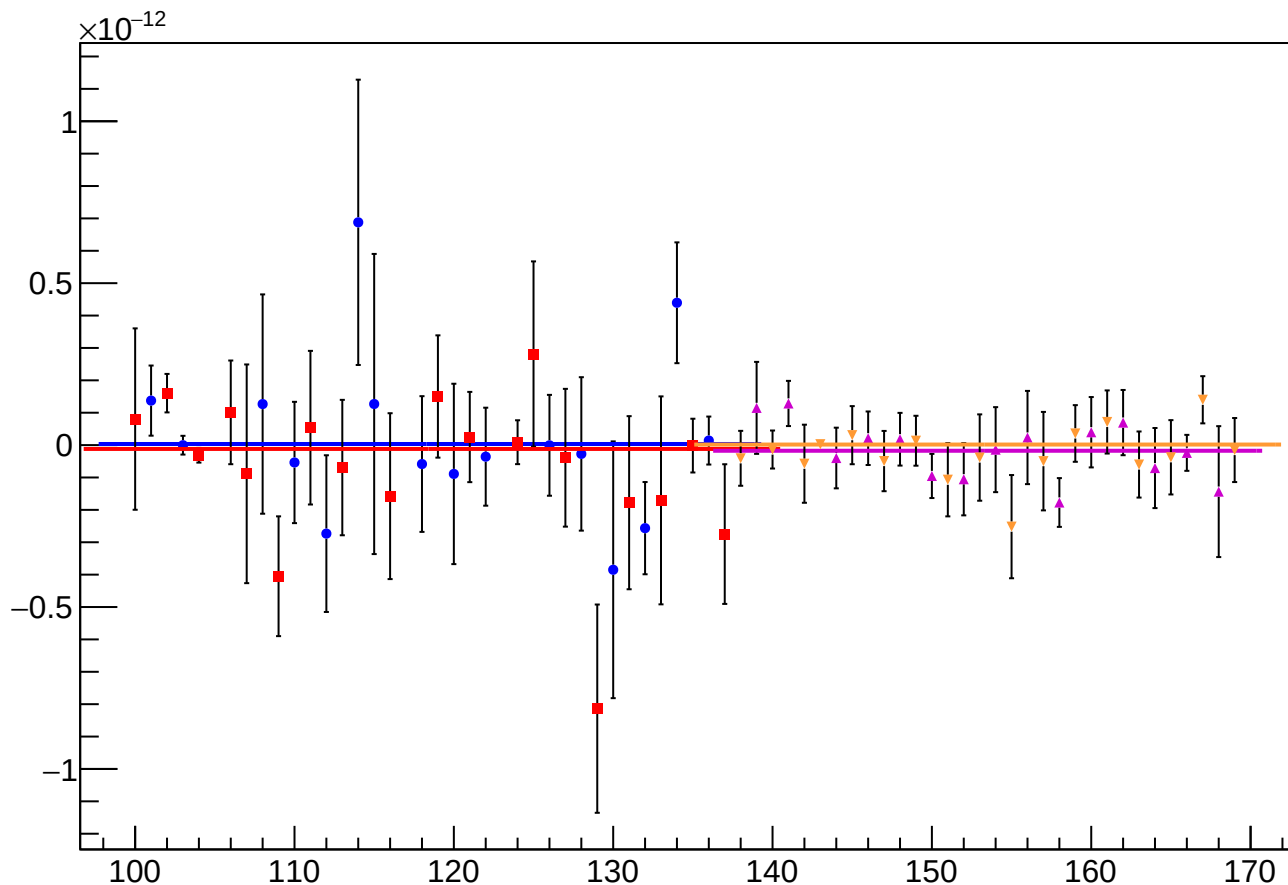
Right: 138.644+/-0.029 χ^2/NDF : 3386673.9/34

In: 192.903+/-0.035 χ^2/NDF : 7515000.4/30

Out: 182.172+/-0.034 χ^2/NDF : 10878437.4/35

All: 187.367+/-0.024 χ^2/NDF : 18441446.7/66

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 15.6/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 9.4/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 25.1/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 13.8/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 23.9/31

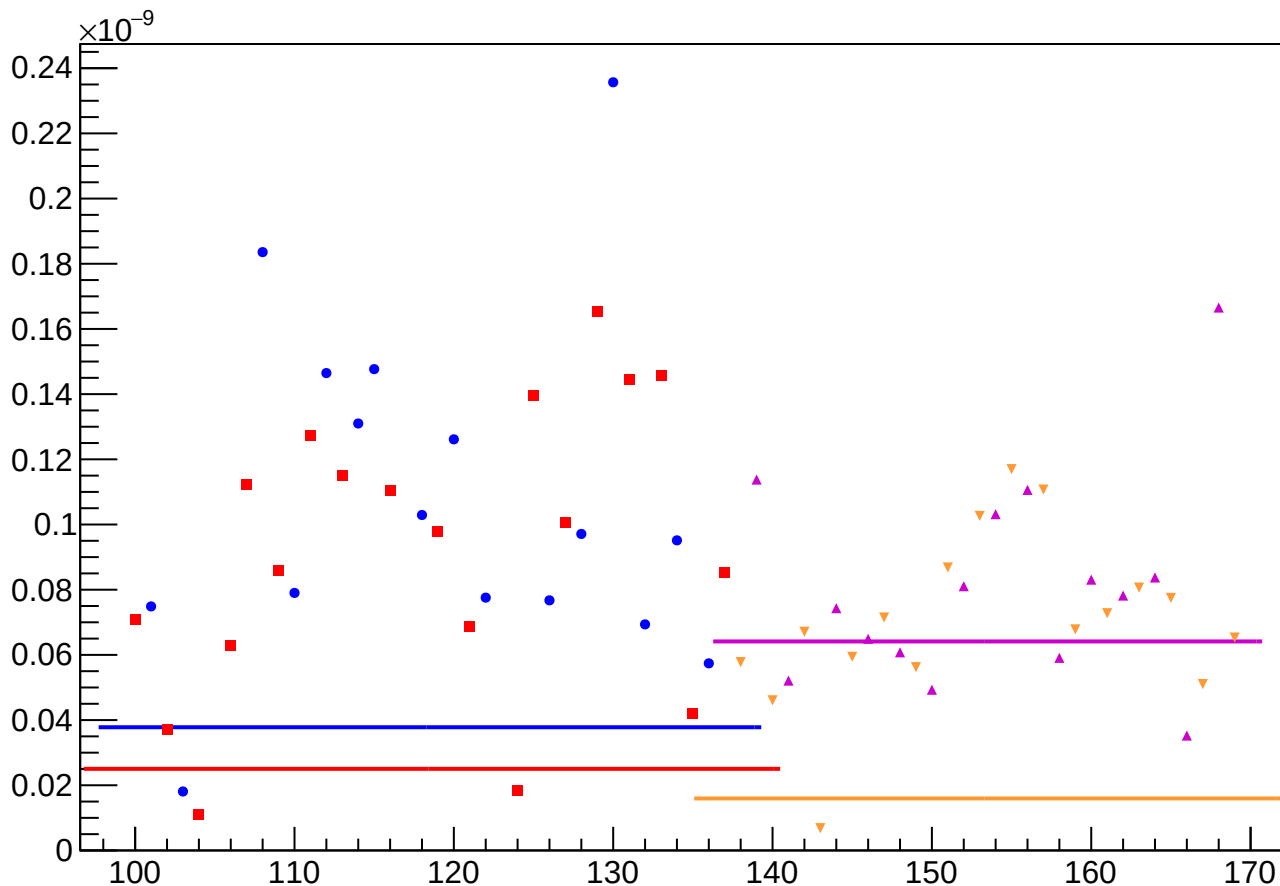
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 41.0/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF: 29.9/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 35.0/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 64.9/66

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3942675.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 11687479.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4701757.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 2071142.1/14

Left: 0.000+/-0.000 χ^2/NDF : 21146616.9/31

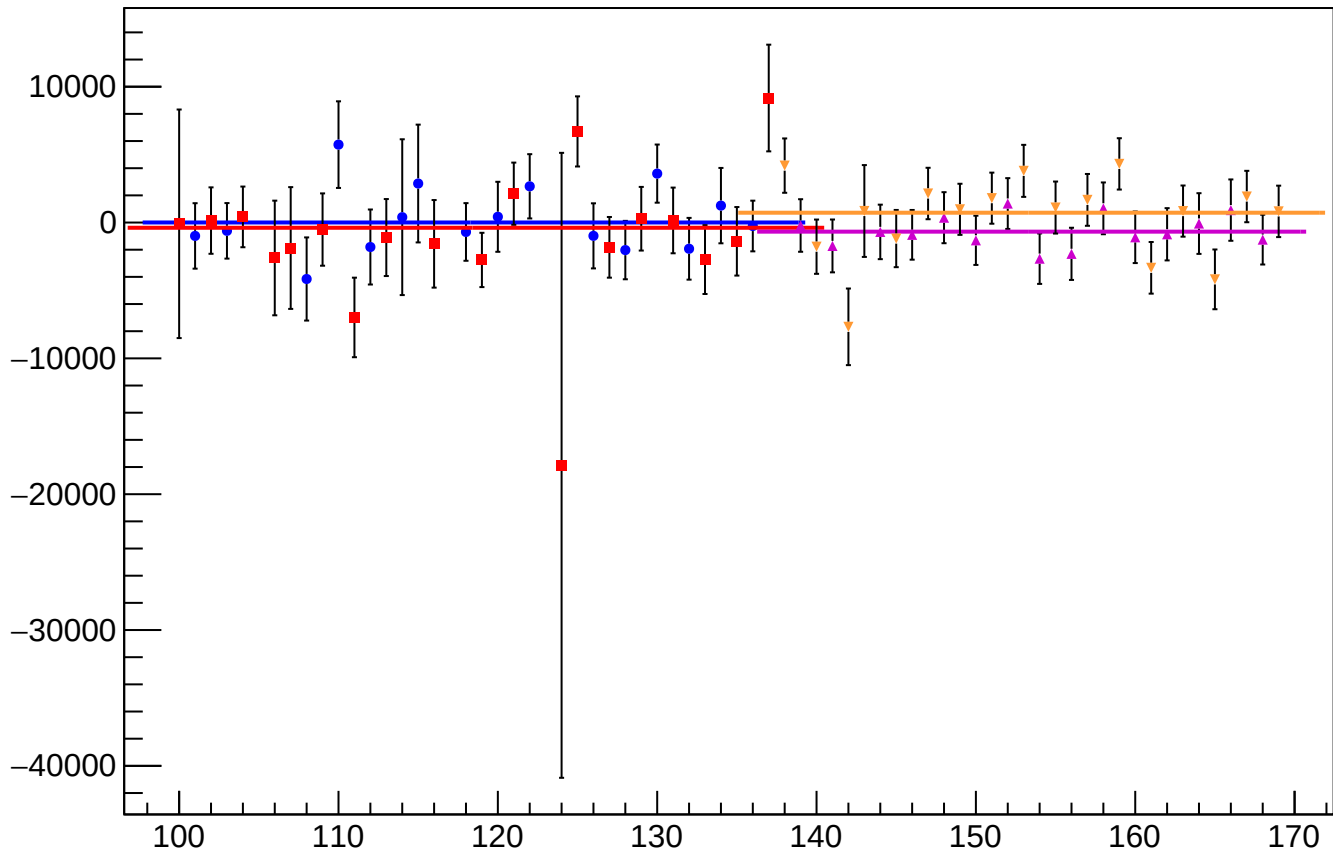
Right: 0.000+/-0.000 χ^2/NDF : 8999957.7/34

In: 0.000+/-0.000 χ^2/NDF : 7256710.0/30

Out: 0.000+/-0.000 χ^2/NDF : 16773698.3/35

All: 0.000+/-0.000 χ^2/NDF : 30520145.3/66

reg_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 4.373 ± 619.905 χ^2/NDF : 12.4/15

Left Out: 723.315 ± 487.564 χ^2/NDF : 31.6/16

Right Out: -384.758 ± 633.682 χ^2/NDF : 24.1/18

Left In: -671.096 ± 498.112 χ^2/NDF : 5.4/14

Left: 41.030 ± 348.429 χ^2/NDF : 41.0/31

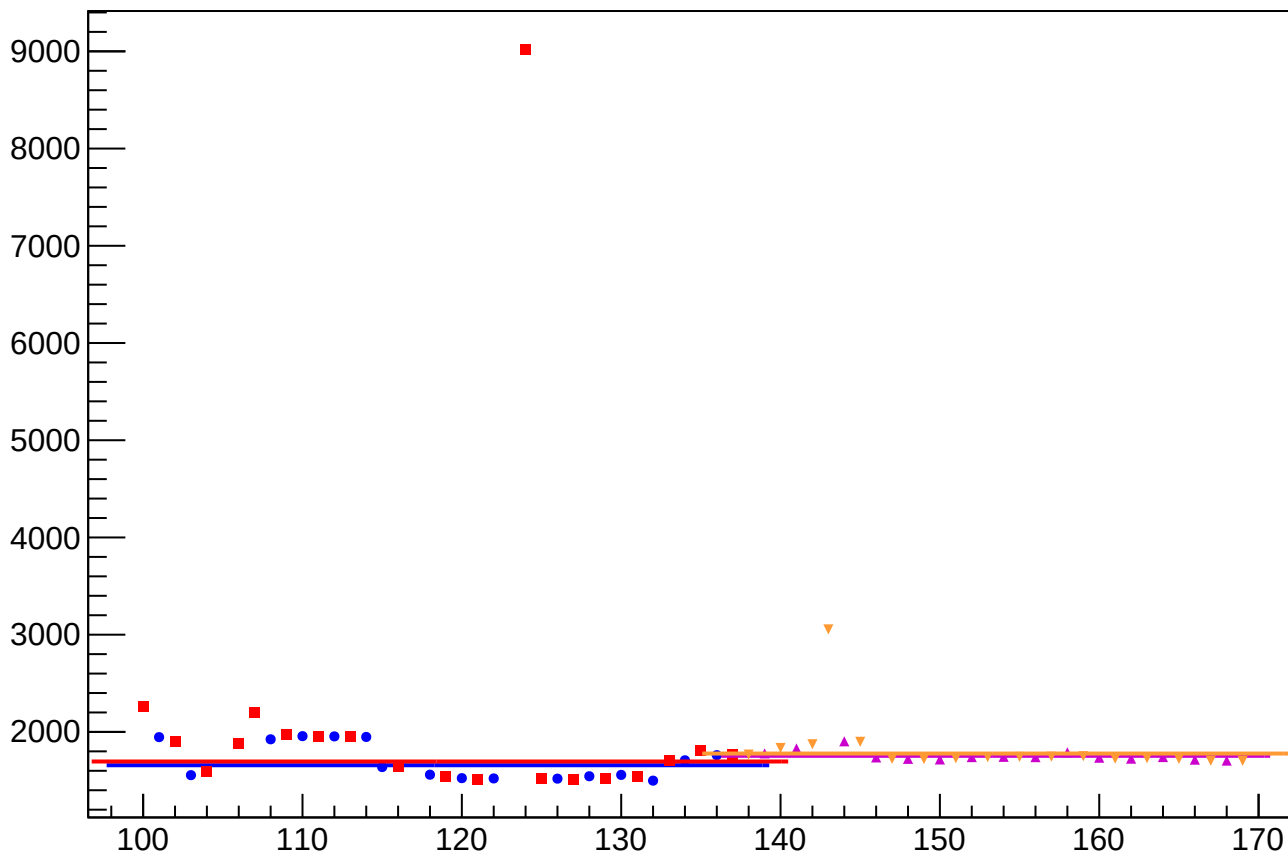
Right: -185.916 ± 443.130 χ^2/NDF : 36.7/34

In: -406.082 ± 388.291 χ^2/NDF : 18.6/30

Out: 311.269 ± 386.421 χ^2/NDF : 57.6/35

All: -45.675 ± 273.899 χ^2/NDF : 77.9/66

reg_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1657.119+/-0.438 χ^2/NDF : 143982.4/15

Left Out: 1777.456+/-0.345 χ^2/NDF : 313540.1/16

Right Out: 1695.649+/-0.446 χ^2/NDF : 386216.2/18

Left In: 1754.184+/-0.352 χ^2/NDF : 19812.3/14

Left: 1766.069+/-0.246 χ^2/NDF : 335581.9/31

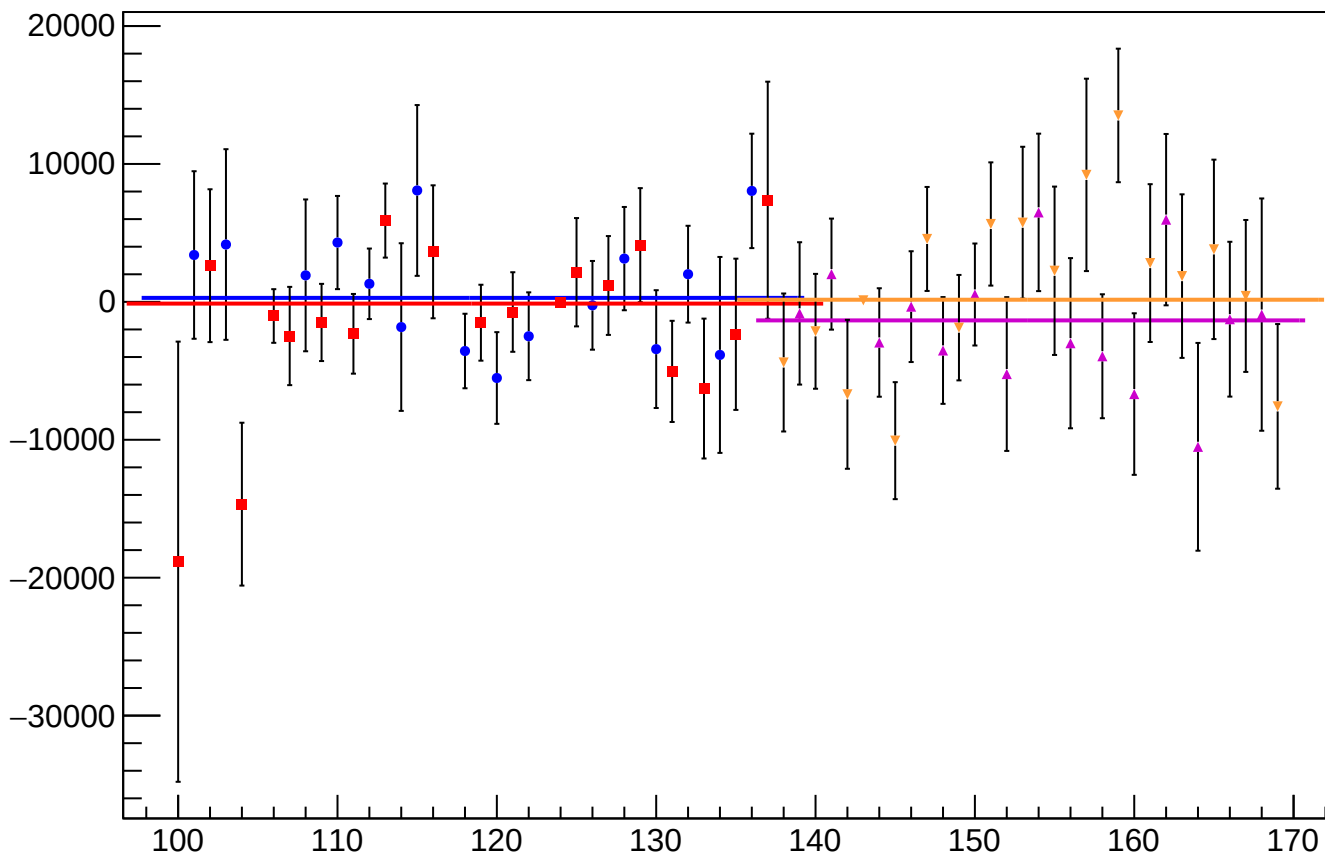
Right: 1676.049+/-0.313 χ^2/NDF : 533994.7/34

In: 1716.101+/-0.275 χ^2/NDF : 193591.2/30

Out: 1746.859+/-0.273 χ^2/NDF : 720815.4/35

All: 1731.581+/-0.194 χ^2/NDF : 920722.2/66

asym_atl_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 289.262 ± 961.071 $\chi^2/\text{NDF}: 15.2/15$

Left Out: 154.995 ± 349.530 $\chi^2/\text{NDF}: 24.5/16$

Right Out: -125.586 ± 323.715 $\chi^2/\text{NDF}: 20.8/18$

Left In: -1343.851 ± 1267.066 $\chi^2/\text{NDF}: 8.0/14$

Left: 49.003 ± 336.944 $\chi^2/\text{NDF}: 33.7/31$

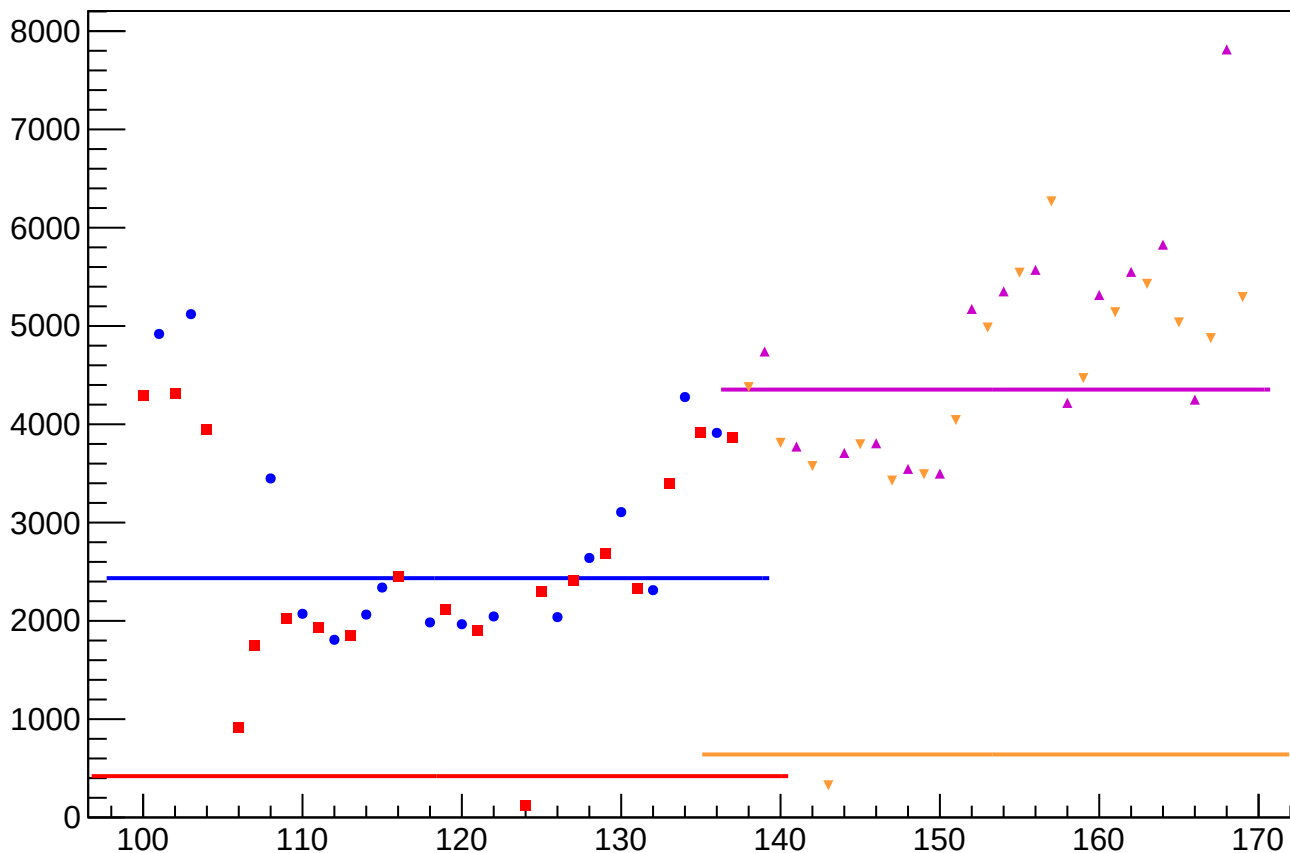
Right: -83.316 ± 306.780 $\chi^2/\text{NDF}: 36.2/34$

In: -307.167 ± 765.721 $\chi^2/\text{NDF}: 24.3/30$

Out: 3.962 ± 237.503 $\chi^2/\text{NDF}: 45.7/35$

All: -23.344 ± 226.842 $\chi^2/\text{NDF}: 70.1/66$

asym_atl_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 2434.593+/-0.680 χ^2/NDF : 1457721.5/15

Left Out: 640.960+/-0.247 χ^2/NDF : 19762758.2/16

Right Out: 420.292+/-0.229 χ^2/NDF : 11063973.9/18

Left In: 4353.035+/-0.896 χ^2/NDF : 1064869.1/14

Left: 903.463+/-0.238 χ^2/NDF : 36779565.2/31

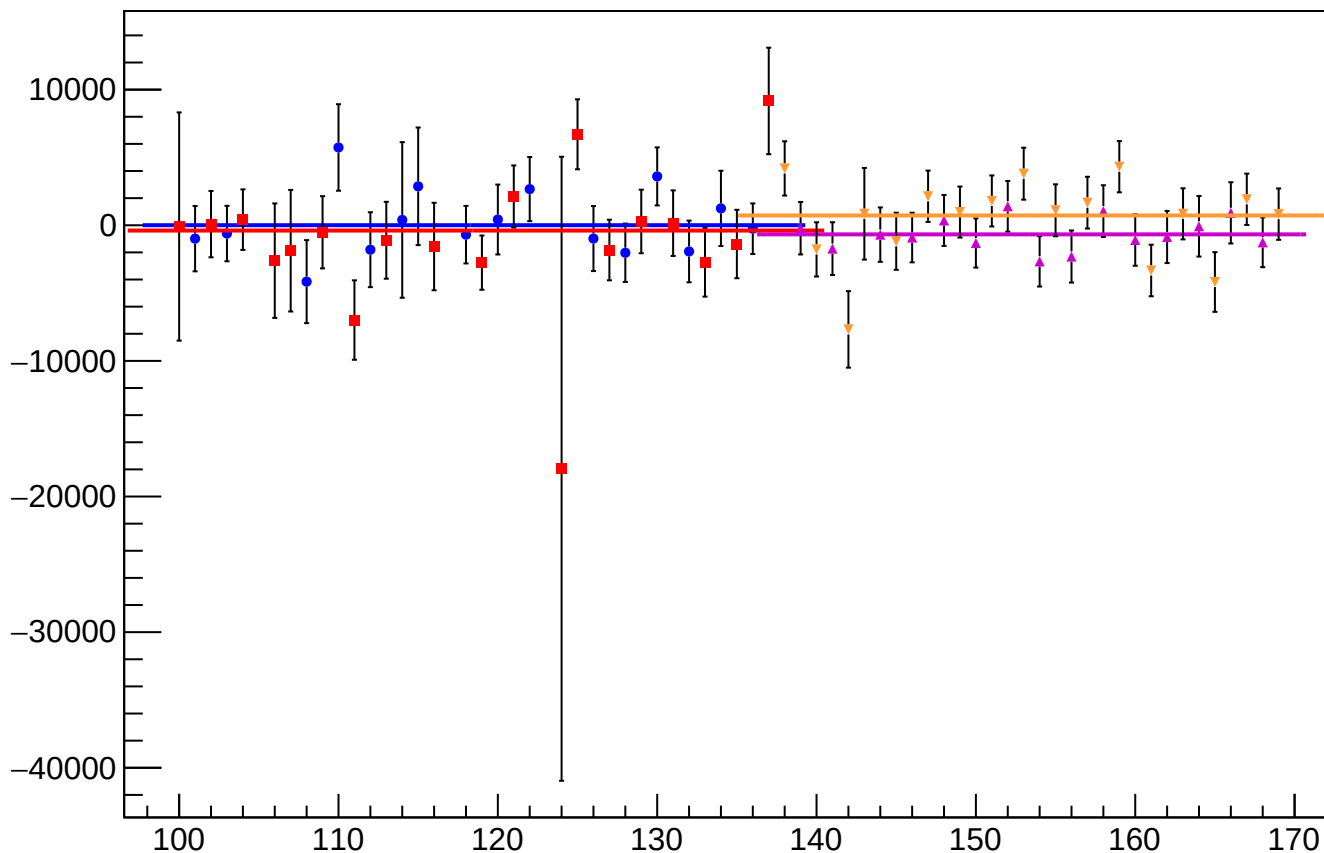
Right: 625.534+/-0.217 χ^2/NDF : 20412045.5/34

In: 3135.227+/-0.541 χ^2/NDF : 5433033.6/30

Out: 522.177+/-0.168 χ^2/NDF : 31255828.4/35

All: 751.504+/-0.160 χ^2/NDF : 57935615.9/66

cor_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 4.295 $\pm$ 619.905 χ^2/NDF : 12.4/15

Left Out: 723.252 $\pm$ 487.564 χ^2/NDF : 31.6/16

Right Out: -389.054 $\pm$ 633.688 χ^2/NDF : 24.0/18

Left In: -671.125 $\pm$ 498.112 χ^2/NDF : 5.4/14

Left: 40.983 $\pm$ 348.429 χ^2/NDF : 41.0/31

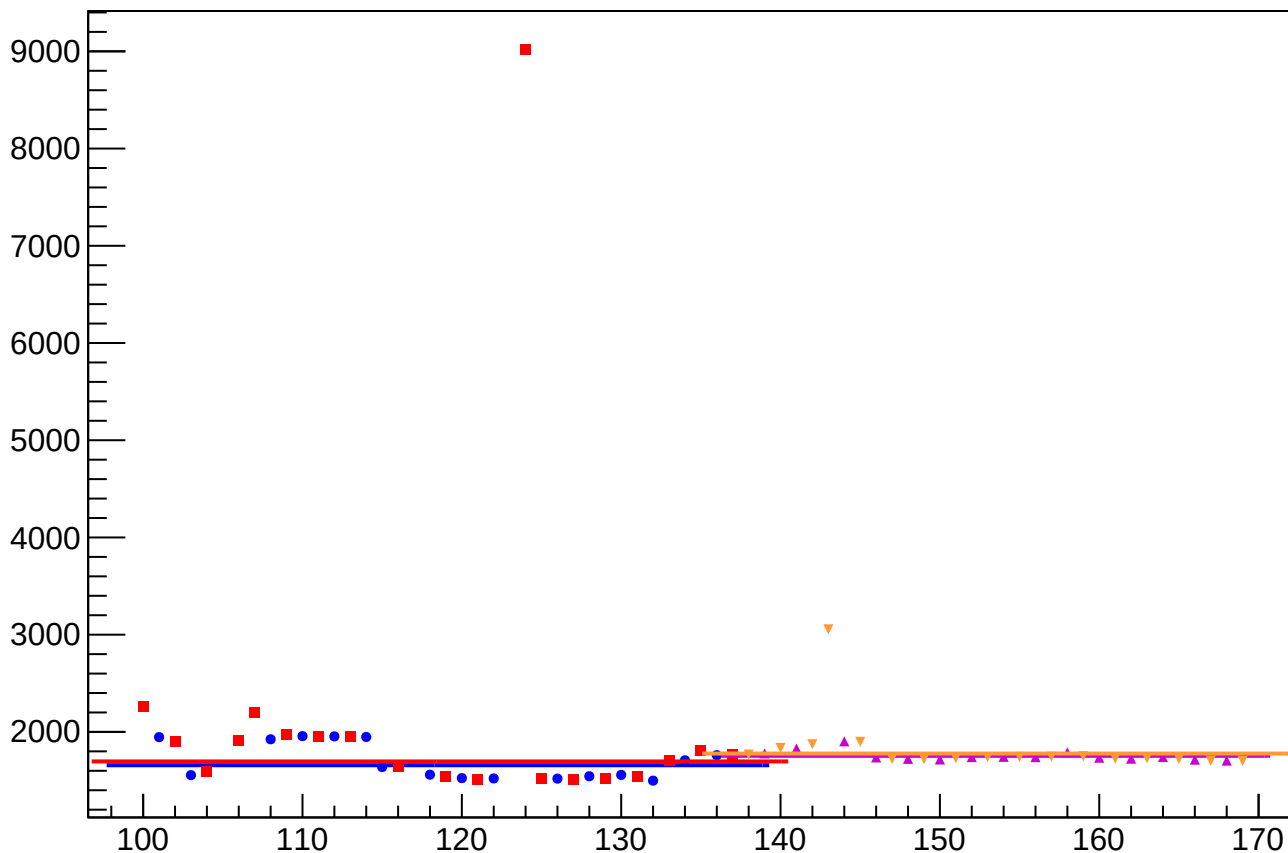
Right: -188.056 $\pm$ 443.132 χ^2/NDF : 36.7/34

In: -406.130 $\pm$ 388.291 χ^2/NDF : 18.6/30

Out: 309.636 $\pm$ 386.422 χ^2/NDF : 57.6/35

All: -46.520 $\pm$ 273.900 χ^2/NDF : 77.9/66

cor_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1657.119+/-0.438 χ^2/NDF : 143982.5/15

Left Out: 1777.456+/-0.345 χ^2/NDF : 313540.1/16

Right Out: 1696.442+/-0.446 χ^2/NDF : 387974.4/18

Left In: 1754.184+/-0.352 χ^2/NDF : 19812.3/14

Left: 1766.069+/-0.246 χ^2/NDF : 335581.9/31

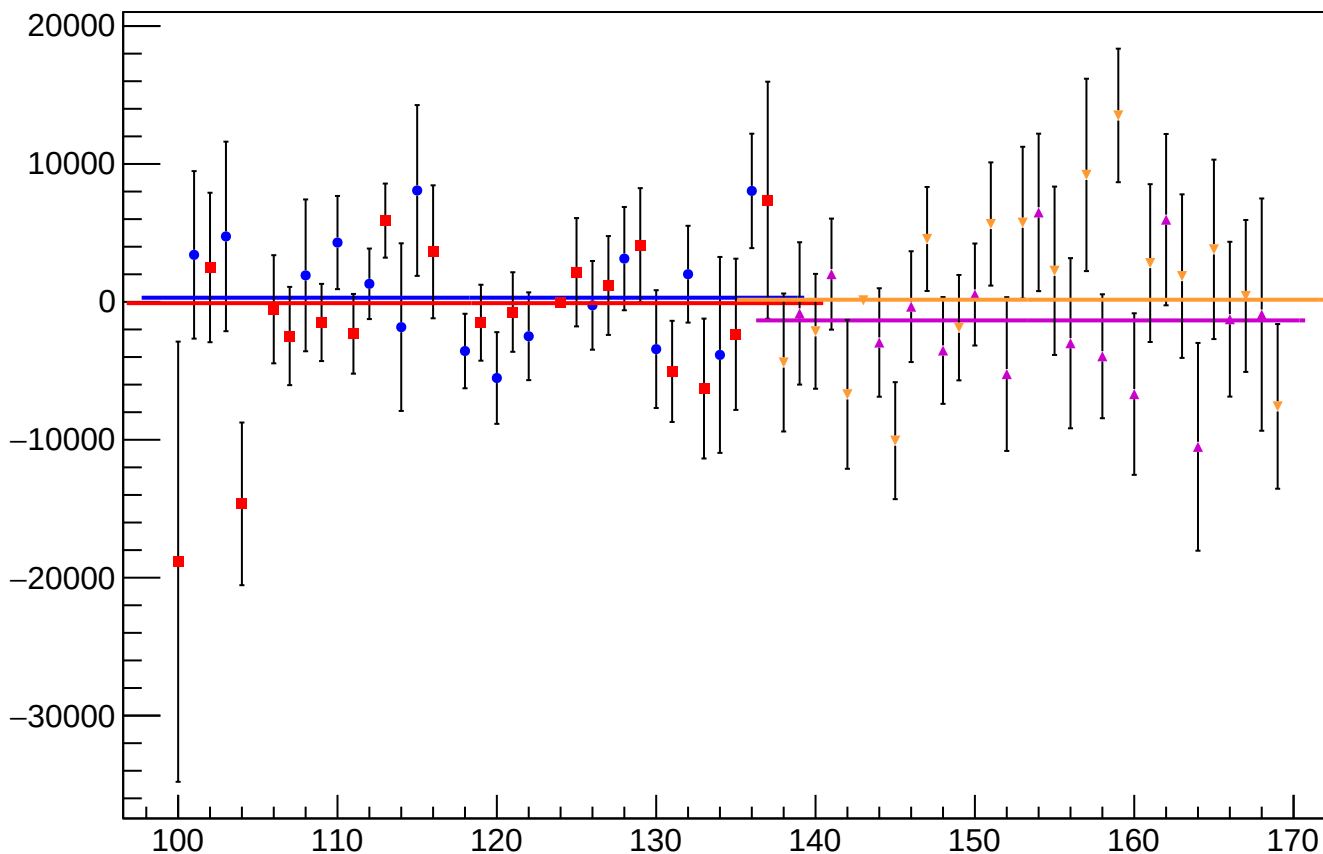
Right: 1676.430+/-0.313 χ^2/NDF : 535909.0/34

In: 1716.101+/-0.275 χ^2/NDF : 193591.3/30

Out: 1747.174+/-0.273 χ^2/NDF : 722154.6/35

All: 1731.737+/-0.194 χ^2/NDF : 922190.5/66

asym_atl_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 301.839 $\pm$ 960.952 χ^2 /NDF: 15.3/15

Left Out: 155.426 $\pm$ 349.504 χ^2 /NDF:24.5/16

Right Out: -92.243 $\pm$ 315.757 χ^2 /NDF: 20.6/18

Left In: -1343.873 $\pm$ 1267.065 χ^2 /NDF:8.0/14

Left: 49.416 $\pm$ 336.922 χ^2 /NDF: 33.7/31

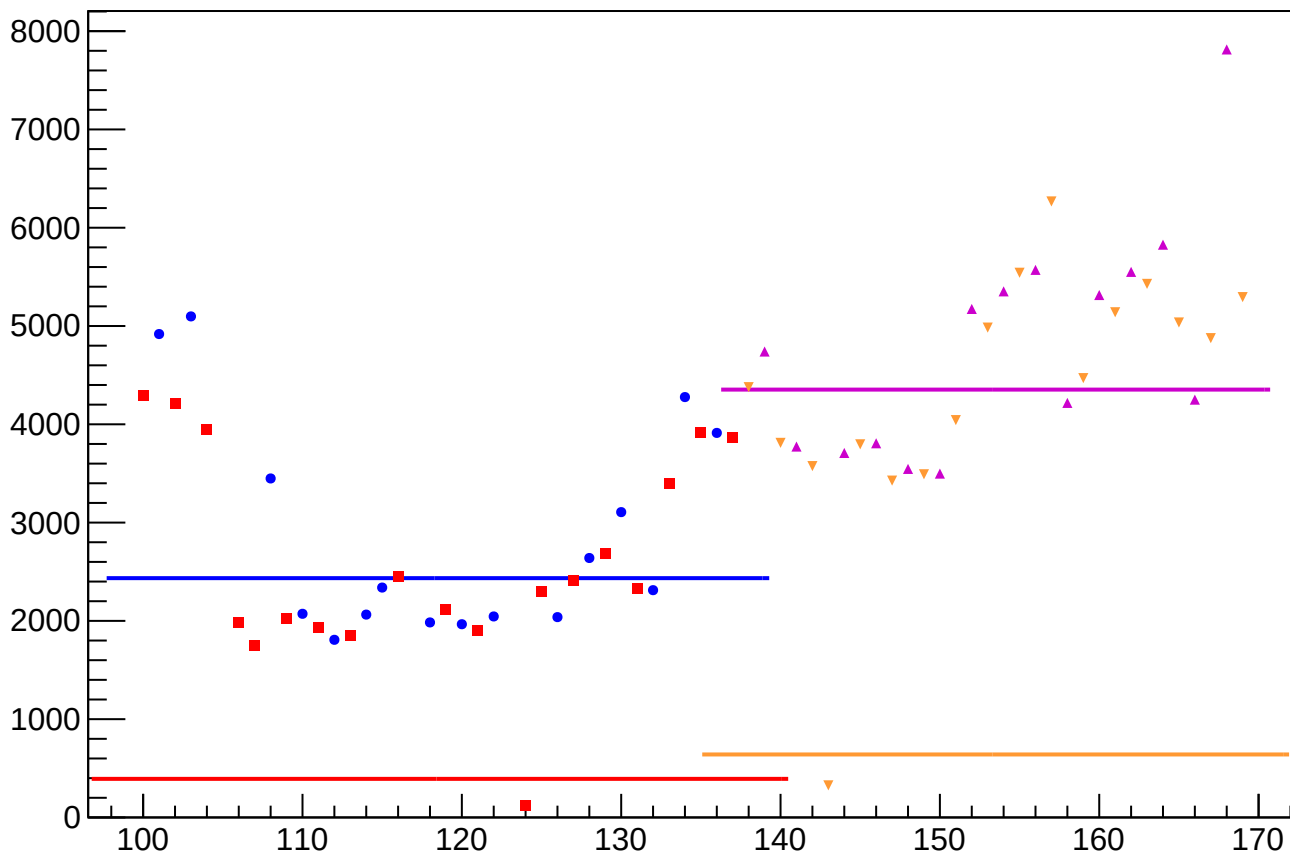
Right: -53.840 $\pm$ 299.978 χ^2 /NDF: 36.1/34

In: -299.098 $\pm$ 765.661 χ^2 /NDF:24.4/30

Out: 19.060 $\pm$ 234.299 χ^2 /NDF:45.4/35

All: -8.181 $\pm$ 224.044 χ^2 /NDF: 69.9/66

asym_atl_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2434.758+/-0.679 χ^2/NDF : 1456027.7/15

Left Out: 640.888+/-0.247 χ^2/NDF : 19763260.1/16

Right Out: 392.666+/-0.223 χ^2/NDF : 11408006.3/18

Left In: 4353.032+/-0.896 χ^2/NDF : 1064860.3/14

Left: 903.361+/-0.238 χ^2/NDF : 36780845.6/31

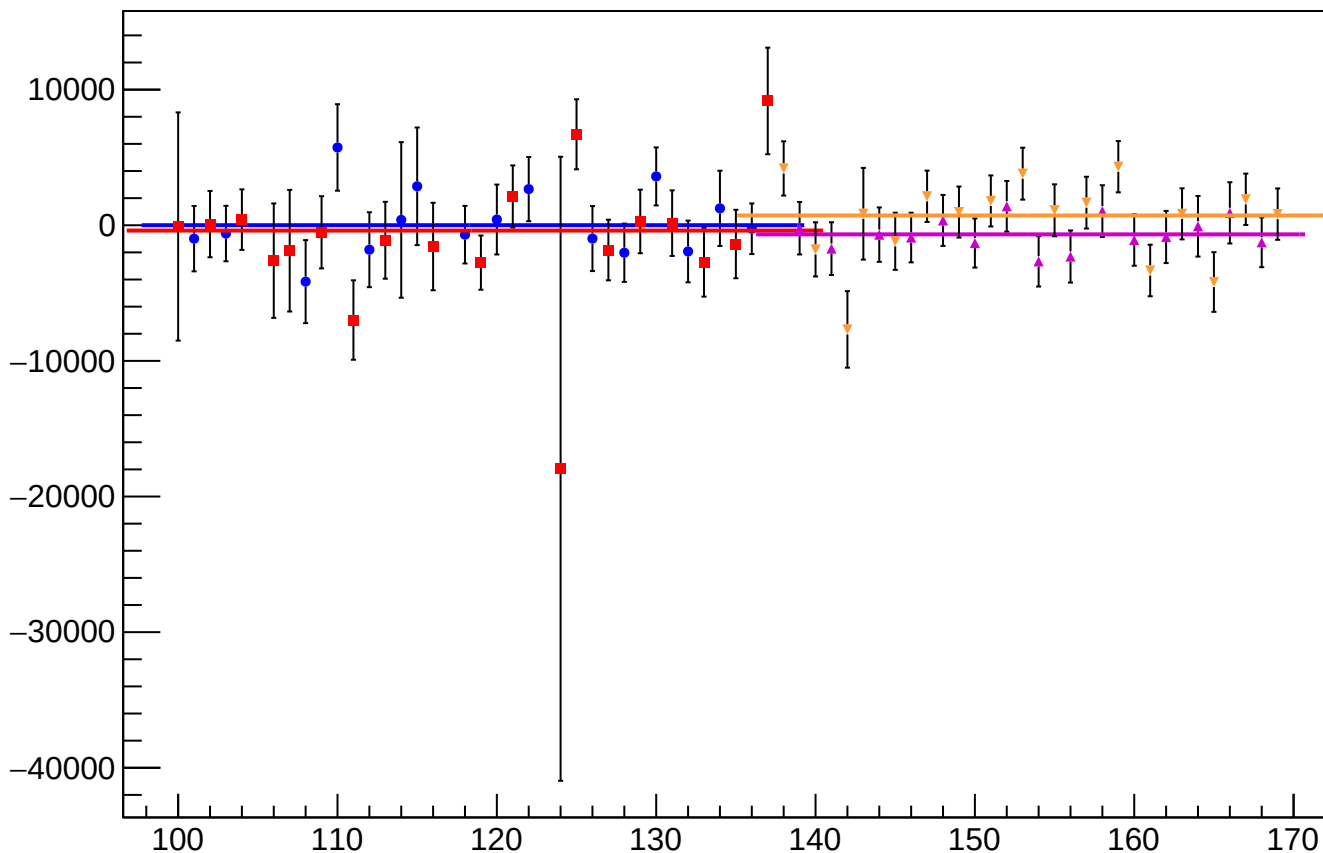
Right: 591.664+/-0.212 χ^2/NDF : 21015754.2/34

In: 3135.222+/-0.541 χ^2/NDF : 5431085.3/30

Out: 504.217+/-0.166 χ^2/NDF : 31726709.9/35

All: 729.493+/-0.158 χ^2/NDF : 58751422.8/66

eigen_cor_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 4.295 $\pm$ 619.905 χ^2/NDF : 12.4/15

Left Out: 723.252 $\pm$ 487.564 χ^2/NDF : 31.6/16

Right Out: -389.054 $\pm$ 633.688 χ^2/NDF : 24.0/18

Left In: -671.125 $\pm$ 498.112 χ^2/NDF : 5.4/14

Left: 40.983 $\pm$ 348.429 χ^2/NDF : 41.0/31

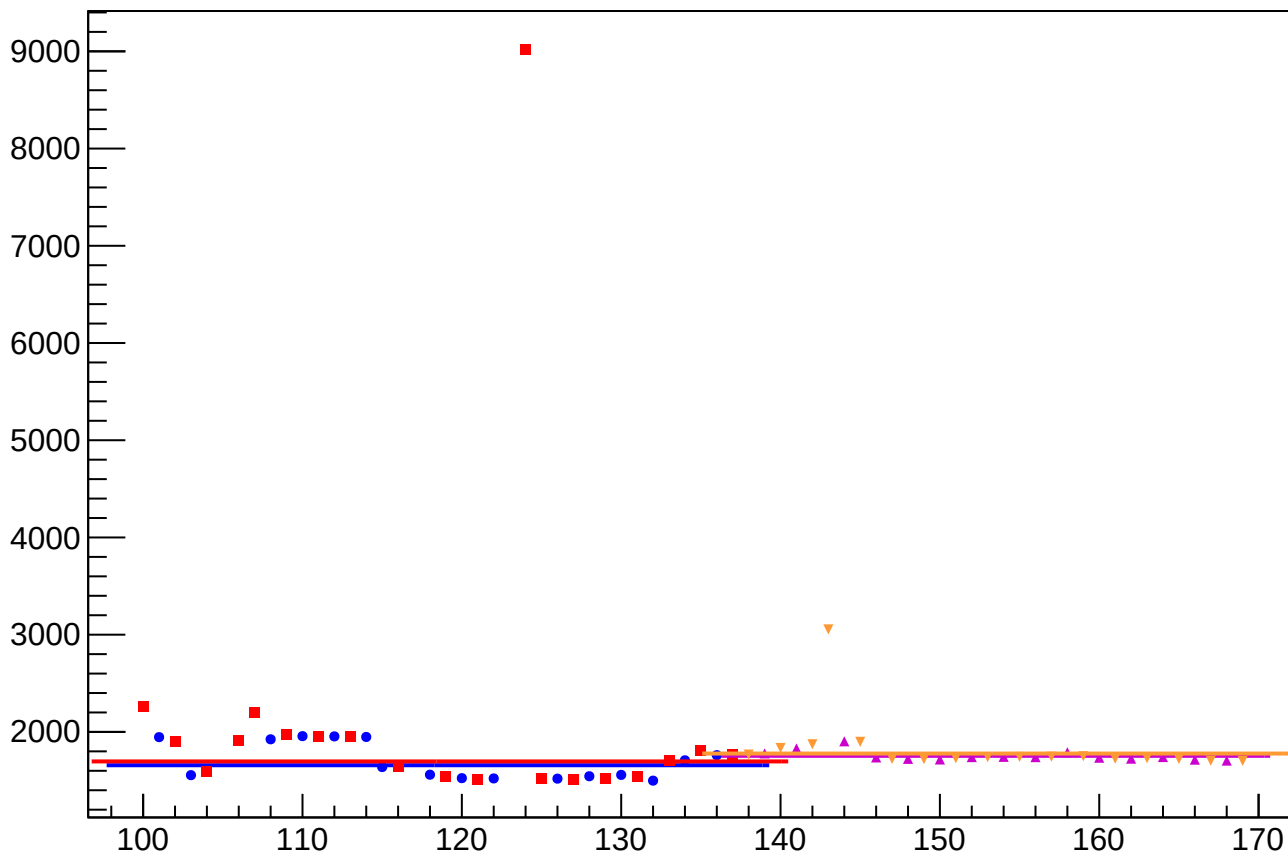
Right: -188.056 $\pm$ 443.132 χ^2/NDF : 36.7/34

In: -406.130 $\pm$ 388.291 χ^2/NDF : 18.6/30

Out: 309.636 $\pm$ 386.422 χ^2/NDF : 57.6/35

All: -46.520 $\pm$ 273.900 χ^2/NDF : 77.9/66

eigen_cor_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1657.119+/-0.438 χ^2/NDF : 143982.5/15

Left Out: 1777.456+/-0.345 χ^2/NDF : 313540.1/16

Right Out: 1696.442+/-0.446 χ^2/NDF : 387974.4/18

Left In: 1754.184+/-0.352 χ^2/NDF : 19812.3/14

Left: 1766.069+/-0.246 χ^2/NDF : 335581.9/31

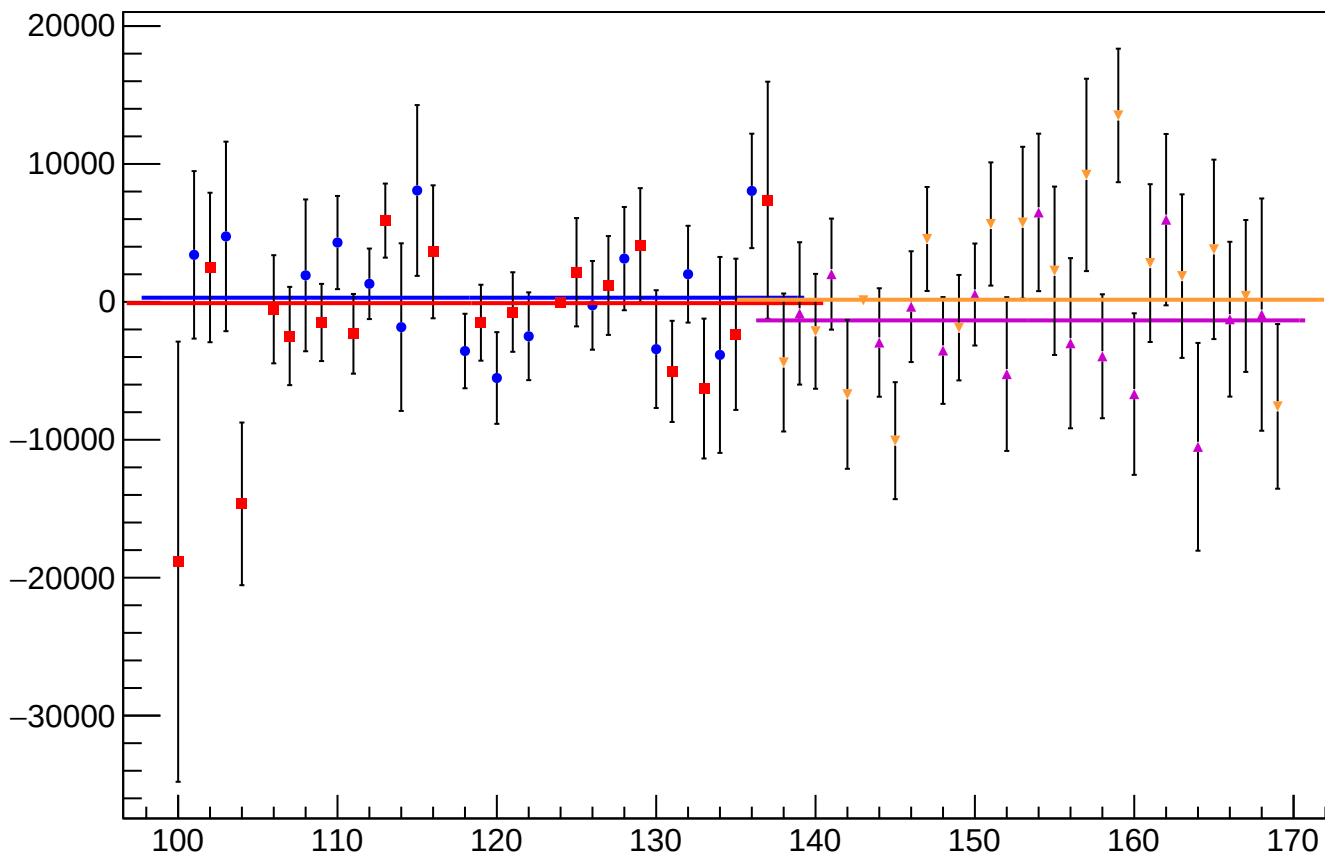
Right: 1676.430+/-0.313 χ^2/NDF : 535909.0/34

In: 1716.101+/-0.275 χ^2/NDF : 193591.3/30

Out: 1747.174+/-0.273 χ^2/NDF : 722154.6/35

All: 1731.737+/-0.194 χ^2/NDF : 922190.5/66

asym_atl_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 301.839 $\pm$ 960.952 χ^2 /NDF: 15.3/15

Left Out: 155.426 $\pm$ 349.504 χ^2 /NDF:24.5/16

Right Out: -92.243 $\pm$ 315.757 χ^2 /NDF: 20.6/18

Left In: -1343.873 $\pm$ 1267.065 χ^2 /NDF:8.0/14

Left: 49.416 $\pm$ 336.922 χ^2 /NDF: 33.7/31

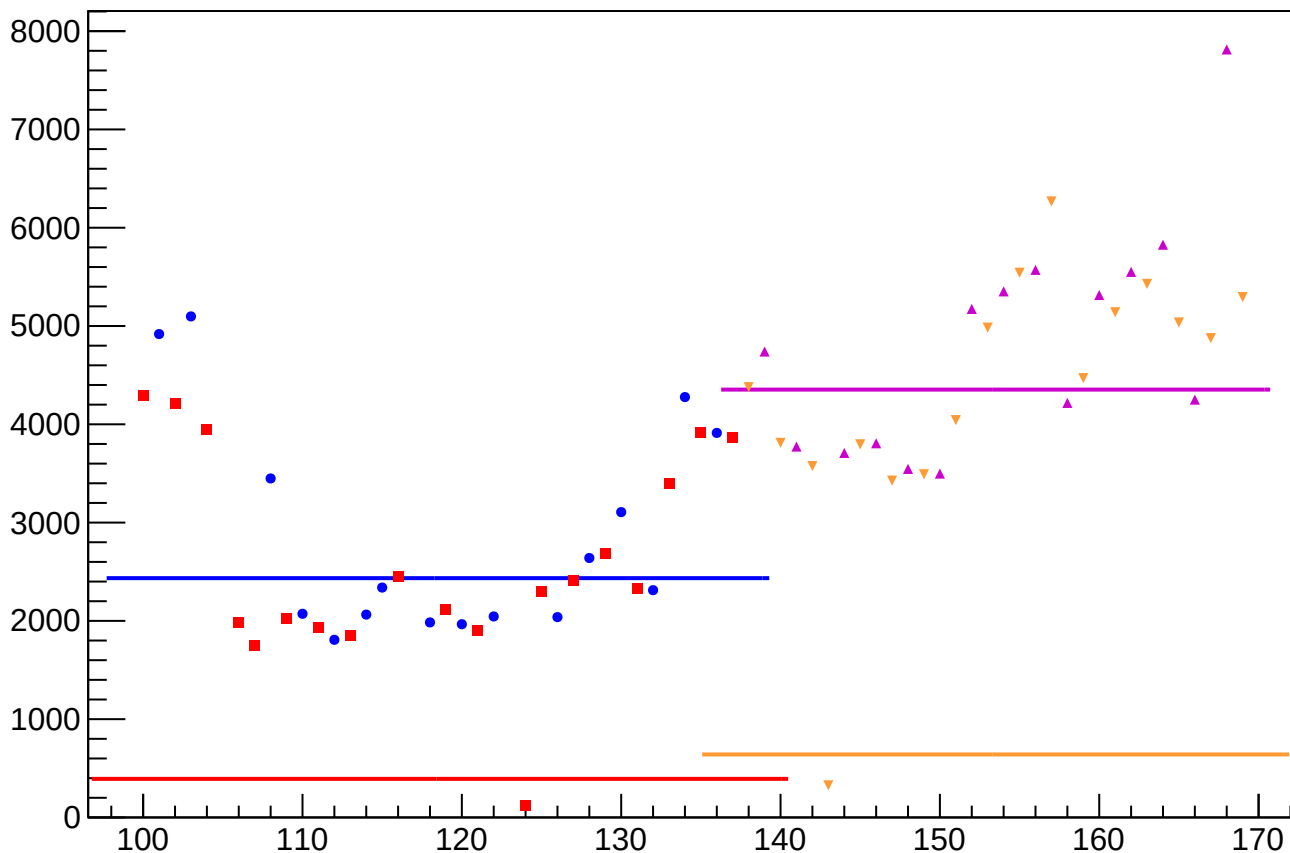
Right: -53.840 $\pm$ 299.978 χ^2 /NDF: 36.1/34

In: -299.098 $\pm$ 765.661 χ^2 /NDF:24.4/30

Out: 19.060 $\pm$ 234.299 χ^2 /NDF:45.4/35

All: -8.181 $\pm$ 224.044 χ^2 /NDF: 69.9/66

asym_atl_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2434.758+/-0.679 χ^2/NDF : 1456027.7/15

Left Out: 640.888+/-0.247 χ^2/NDF : 19763260.1/16

Right Out: 392.666+/-0.223 χ^2/NDF : 11408006.3/18

Left In: 4353.032+/-0.896 χ^2/NDF : 1064860.3/14

Left: 903.361+/-0.238 χ^2/NDF : 36780845.6/31

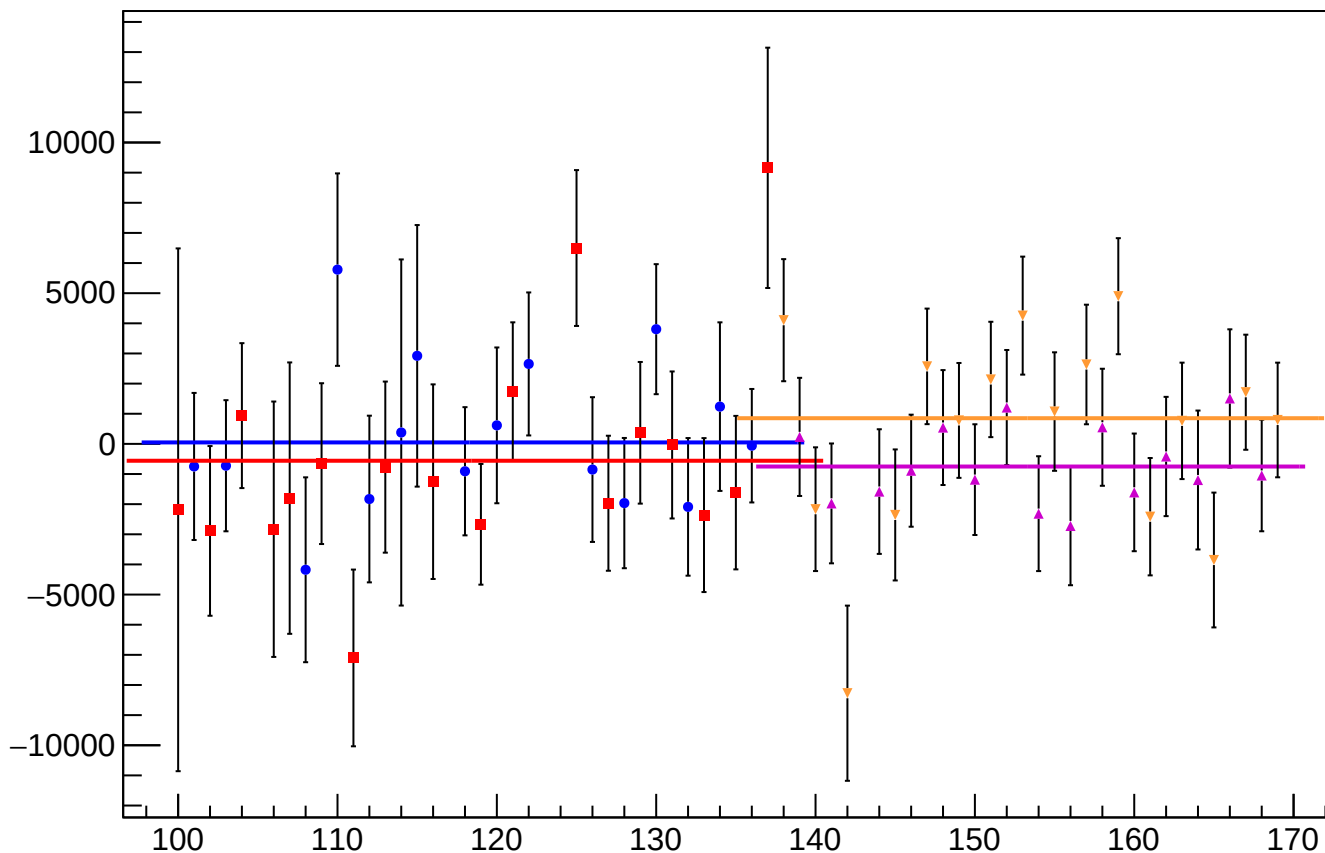
Right: 591.664+/-0.212 χ^2/NDF : 21015754.2/34

In: 3135.222+/-0.541 χ^2/NDF : 5431085.3/30

Out: 504.217+/-0.166 χ^2/NDF : 31726709.9/35

All: 729.493+/-0.158 χ^2/NDF : 58751422.8/66

dit_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 48.331 ± 626.151 $\chi^2/\text{NDF}: 12.8/15$

Left Out: 851.860 ± 502.700 $\chi^2/\text{NDF}: 33.7/15$

Right Out: -559.598 ± 645.291 $\chi^2/\text{NDF}: 23.3/17$

Left In: -751.440 ± 508.340 $\chi^2/\text{NDF}: 5.8/14$

Left: 59.154 ± 357.440 $\chi^2/\text{NDF}: 44.5/30$

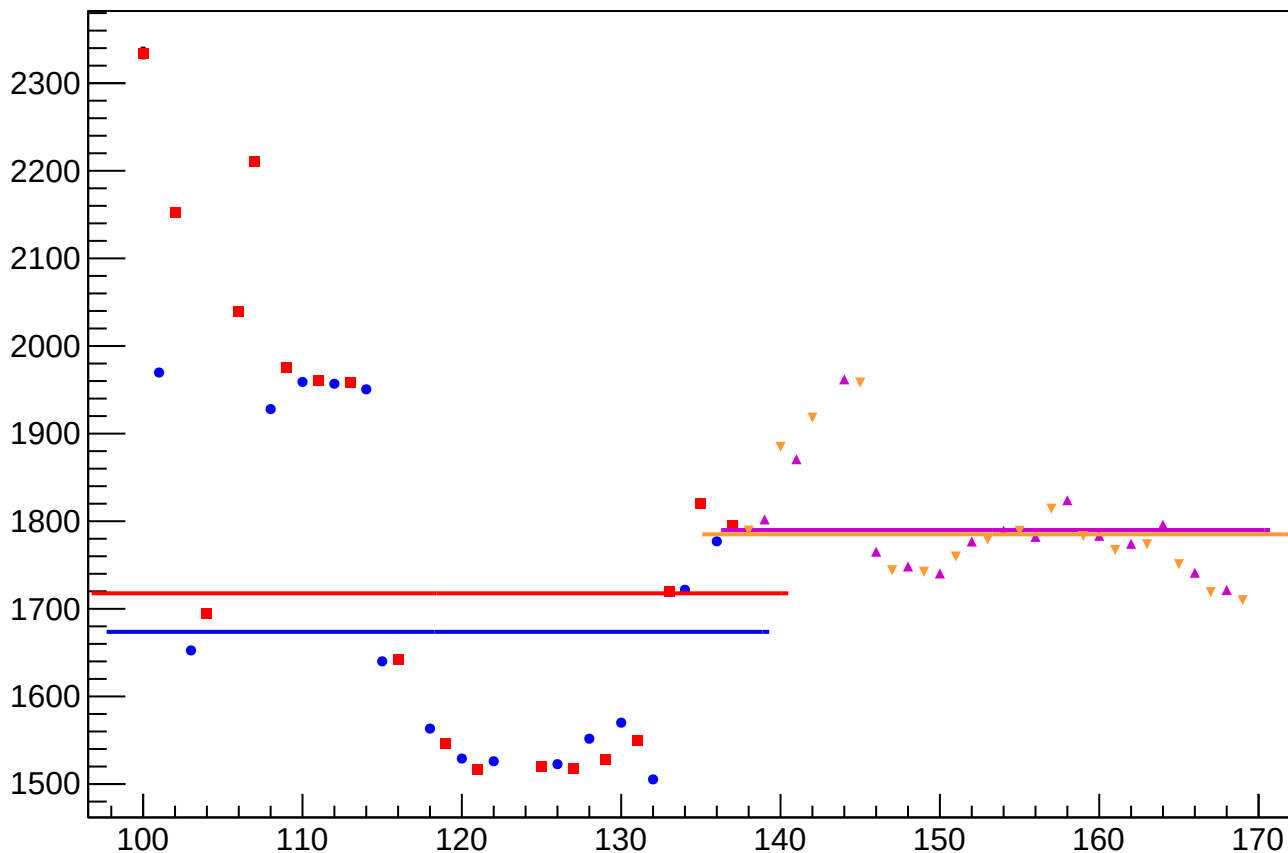
Right: -246.484 ± 449.370 $\chi^2/\text{NDF}: 36.5/33$

In: -433.720 ± 394.656 $\chi^2/\text{NDF}: 19.6/30$

Out: 318.784 ± 396.567 $\chi^2/\text{NDF}: 60.0/33$

All: -59.286 ± 279.737 $\chi^2/\text{NDF}: 81.4/64$

dit_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1673.729+/-0.443 χ^2/NDF : 140873.1/15

Left Out: 1785.065+/-0.355 χ^2/NDF : 30600.9/15

Right Out: 1717.713+/-0.455 χ^2/NDF : 227642.0/17

Left In: 1789.957+/-0.359 χ^2/NDF : 24520.9/14

Left: 1787.484+/-0.253 χ^2/NDF : 55215.4/30

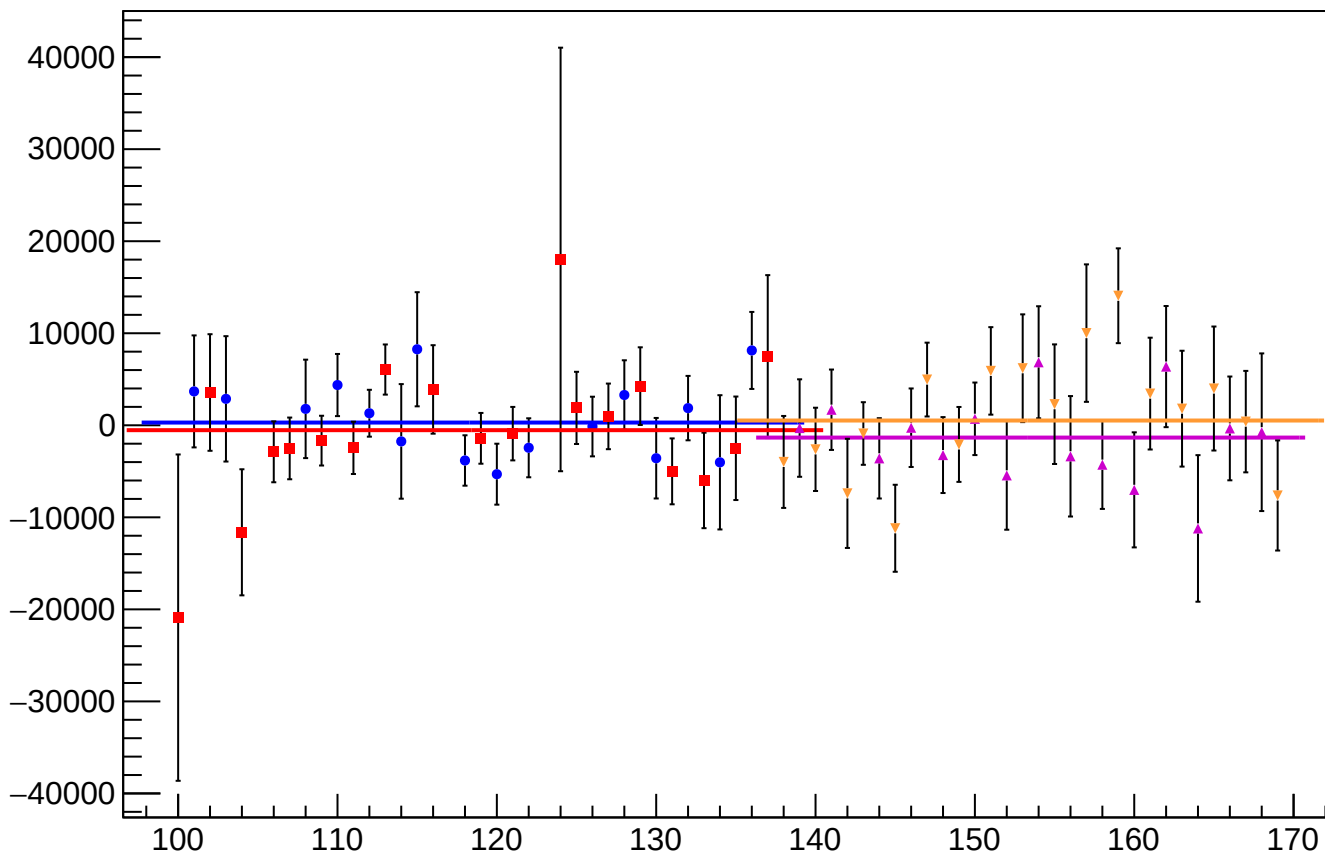
Right: 1695.110+/-0.317 χ^2/NDF : 373312.6/33

In: 1743.784+/-0.279 χ^2/NDF : 206930.1/30

Out: 1759.554+/-0.280 χ^2/NDF : 271841.0/33

All: 1751.638+/-0.198 χ^2/NDF : 480361.7/64

asym_atl_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 296.517+/-964.677 χ^2/NDF : 15.3/15

Left Out: 517.442+/-1231.739 χ^2/NDF :24.3/16

Right Out: -531.007+/-883.969 χ^2/NDF : 18.8/18

Left In: -1335.926+/-1347.706 χ^2/NDF :7.9/14

Left: -326.087+/-909.210 χ^2/NDF : 33.2/31

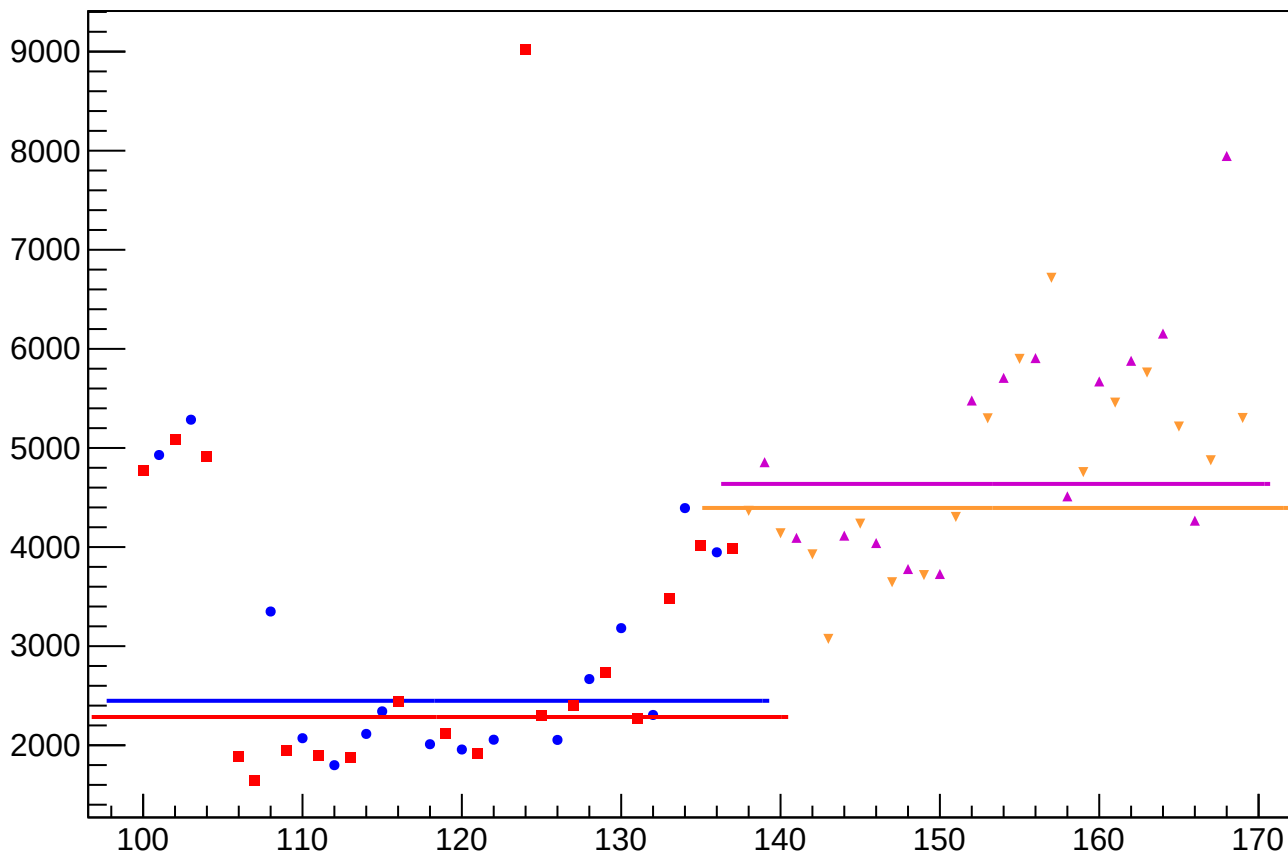
Right: -153.305+/-651.728 χ^2/NDF : 34.4/34

In: -256.524+/-784.431 χ^2/NDF :24.1/30

Out: -174.588+/-718.167 χ^2/NDF :43.5/35

All: -211.950+/-529.701 χ^2/NDF : 67.6/66

asym_atl_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2448.598 $\pm$ 0.682 χ^2/NDF : 1517585.7/15

Left Out: 4394.733 $\pm$ 0.871 χ^2/NDF : 1053952.5/16

Right Out: 2285.075 $\pm$ 0.625 χ^2/NDF : 1548819.2/18

Left In: 4637.230 $\pm$ 0.953 χ^2/NDF : 980331.6/14

Left: 4505.102 $\pm$ 0.643 χ^2/NDF : 2069565.2/31

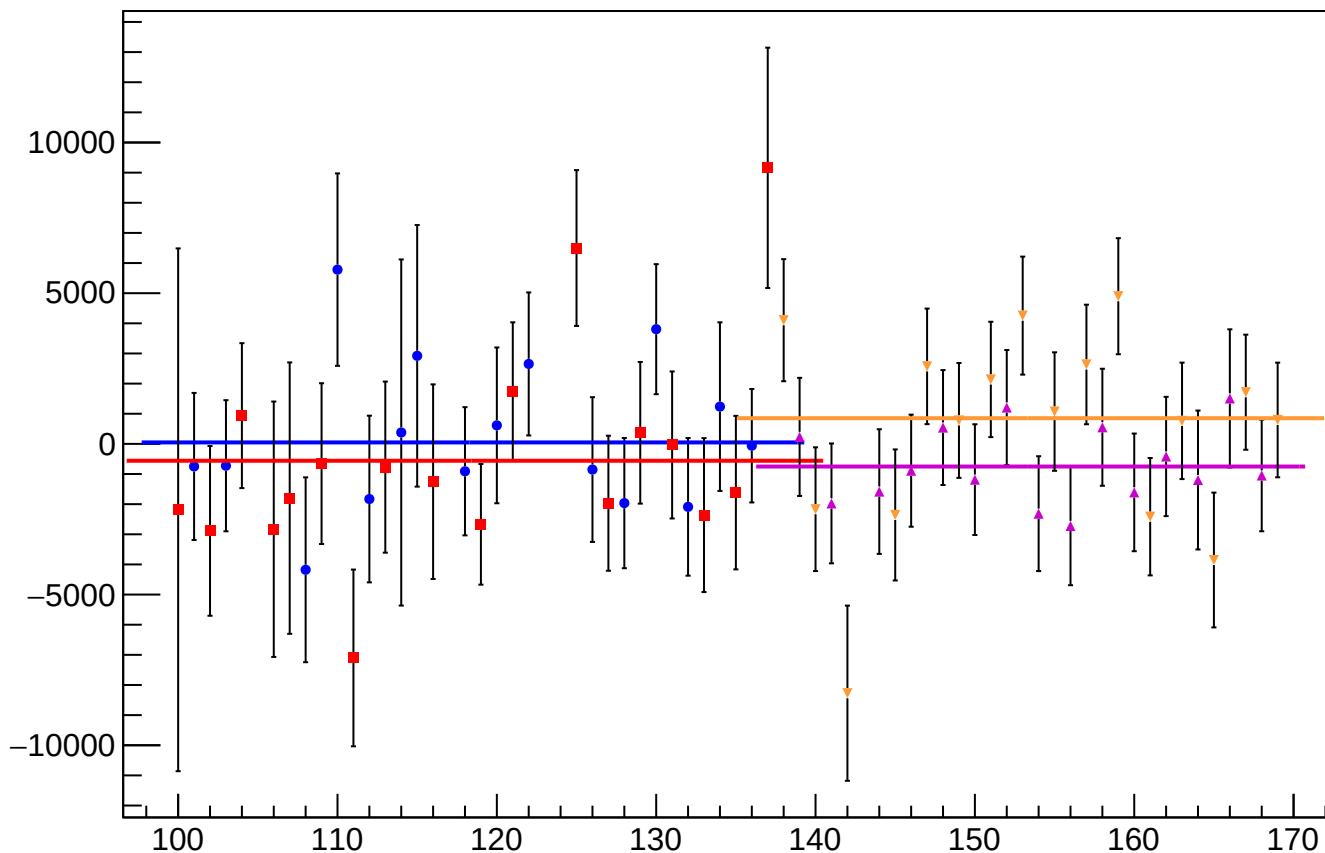
Right: 2359.711 $\pm$ 0.461 χ^2/NDF : 3097643.0/34

In: 3190.065 $\pm$ 0.555 χ^2/NDF : 5985549.3/30

Out: 3002.251 $\pm$ 0.508 χ^2/NDF : 6475297.0/35

All: 3087.892 $\pm$ 0.375 χ^2/NDF : 12523218.0/6

eigen_dit_asym_atl_dd_mean vs Slug, Sign Corrected



Right In: 48.329+/-626.151 χ^2/NDF : 12.8/15

Left Out: 851.864+/-502.700 χ^2/NDF : 33.7/15

Right Out: -559.600+/-645.291 χ^2/NDF : 23.3/17

Left In: -751.441+/-508.340 χ^2/NDF : 5.8/14

Left: 59.156+/-357.440 χ^2/NDF : 44.5/30

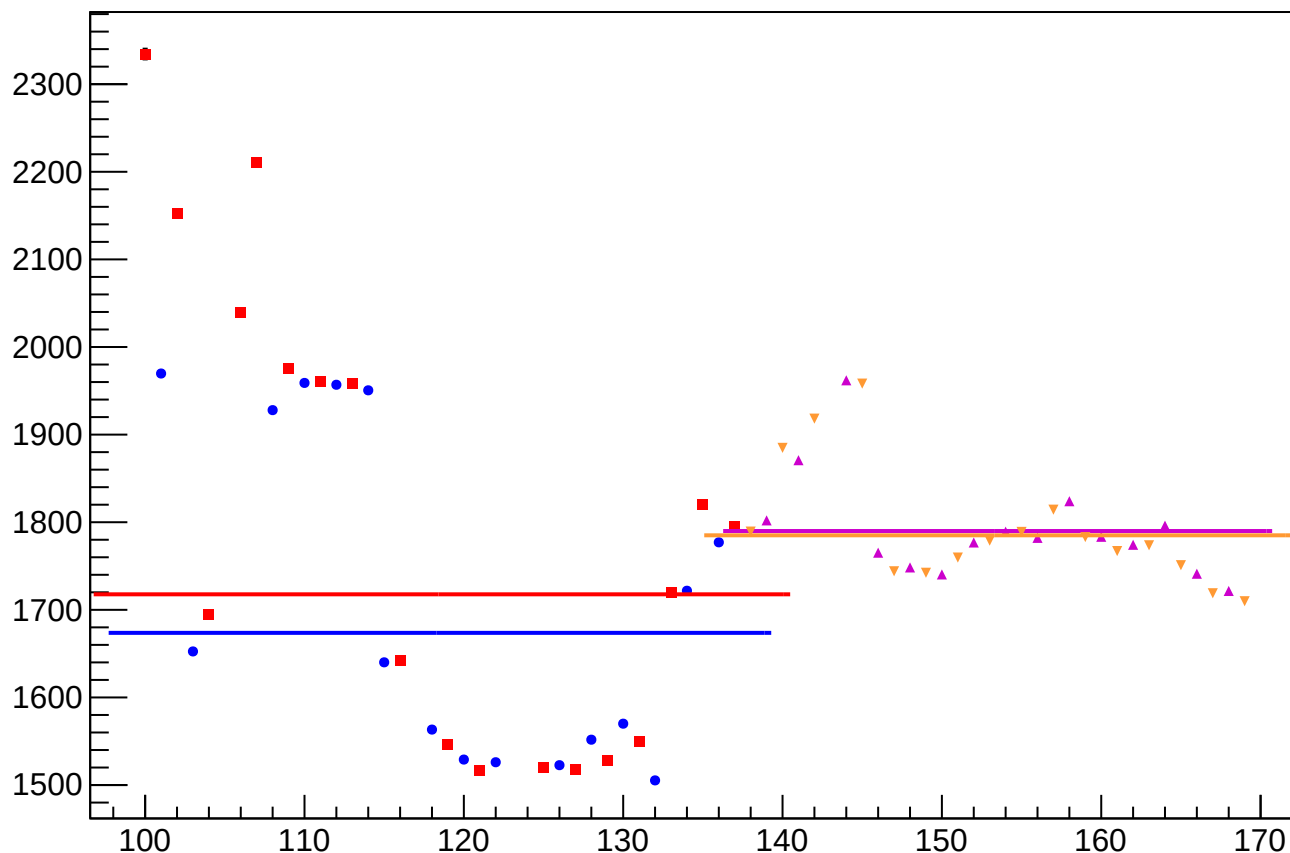
Right: -246.486+/-449.370 χ^2/NDF : 36.5/33

In: -433.722+/-394.656 χ^2/NDF : 19.6/30

Out: 318.785+/-396.567 χ^2/NDF : 60.0/33

All: -59.286+/-279.737 χ^2/NDF : 81.4/64

eigen_dit_asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 1673.728+/-0.443 χ^2/NDF : 140873.1/15

Left Out: 1785.066+/-0.355 χ^2/NDF : 30601.5/15

Right Out: 1717.713+/-0.455 χ^2/NDF : 227641.3/17

Left In: 1789.958+/-0.359 χ^2/NDF : 24521.1/14

Left: 1787.485+/-0.253 χ^2/NDF : 55216.3/30

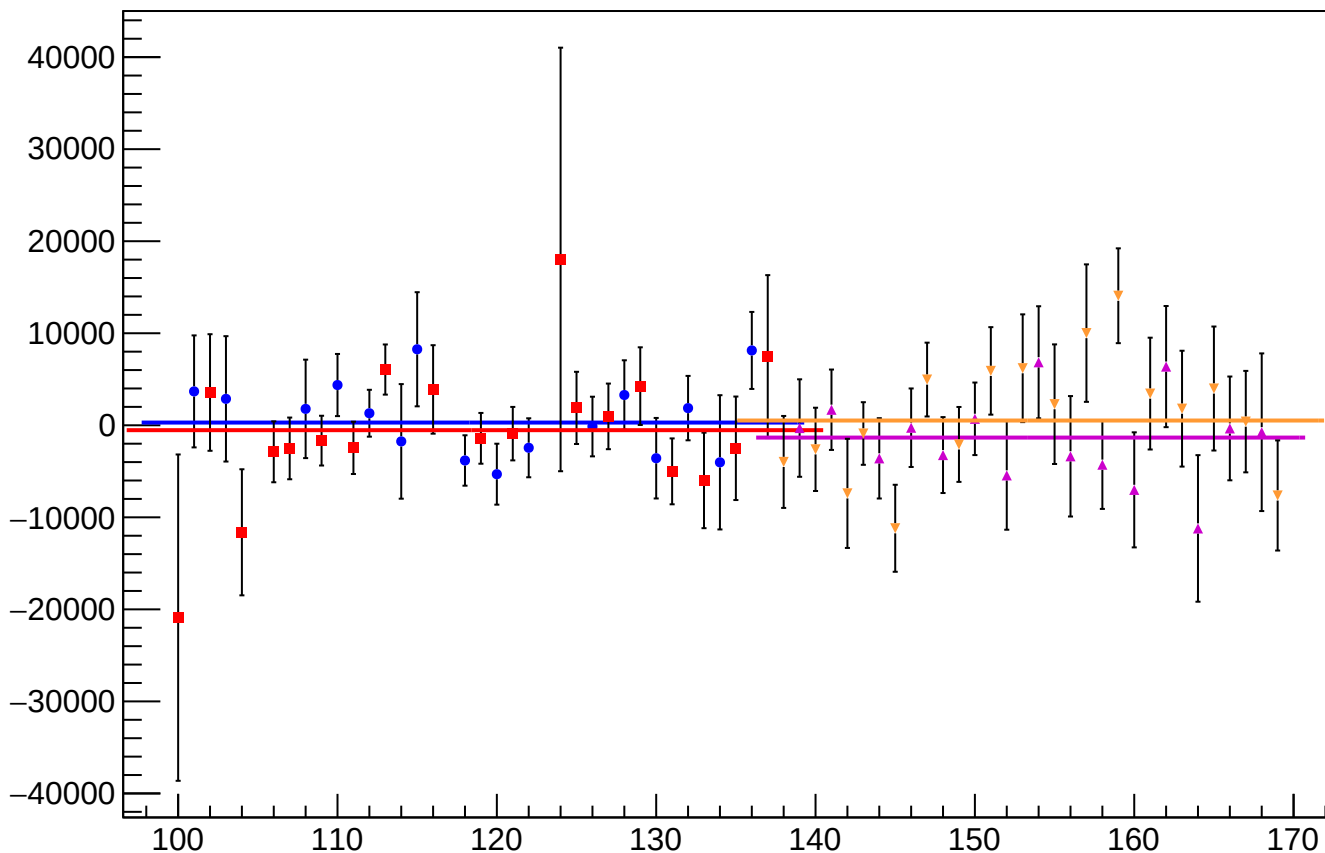
Right: 1695.110+/-0.317 χ^2/NDF : 373311.9/33

In: 1743.784+/-0.279 χ^2/NDF : 206931.2/30

Out: 1759.555+/-0.280 χ^2/NDF : 271841.4/33

All: 1751.638+/-0.198 χ^2/NDF : 480363.1/64

asym_atl_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 296.511+/-964.673 χ^2/NDF : 15.3/15

Left Out: 517.446+/-1231.741 χ^2/NDF : 24.3/16

Right Out: -531.009+/-883.966 χ^2/NDF : 18.8/18

Left In: -1335.927+/-1347.707 χ^2/NDF : 7.9/14

Left: -326.085+/-909.211 χ^2/NDF : 33.2/31

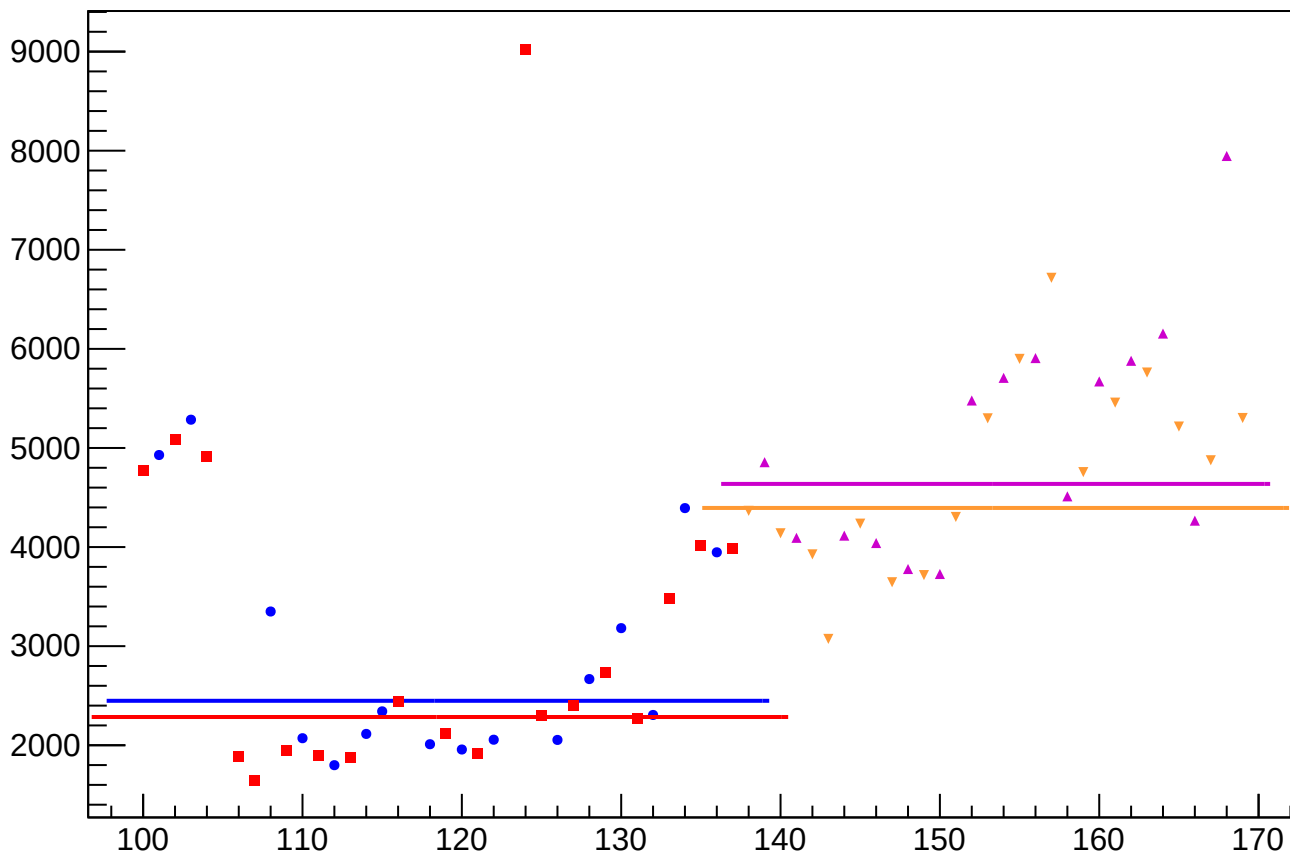
Right: -153.308+/-651.726 χ^2/NDF : 34.4/34

In: -256.524+/-784.429 χ^2/NDF : 24.1/30

Out: -174.590+/-718.166 χ^2/NDF : 43.5/35

All: -211.951+/-529.700 χ^2/NDF : 67.6/66

asym_atl_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2448.587 $\pm$ 0.682 χ^2 /NDF: 1517598.4/15

Left Out: 4394.738 $\pm$ 0.871 χ^2 /NDF: 1053956.7/16

Right Out: 2285.066 $\pm$ 0.625 χ^2 /NDF: 1548827.3/18

Left In: 4637.236 $\pm$ 0.953 χ^2 /NDF: 980334.2/14

Left: 4505.107 $\pm$ 0.643 χ^2 /NDF: 2069572.2/31

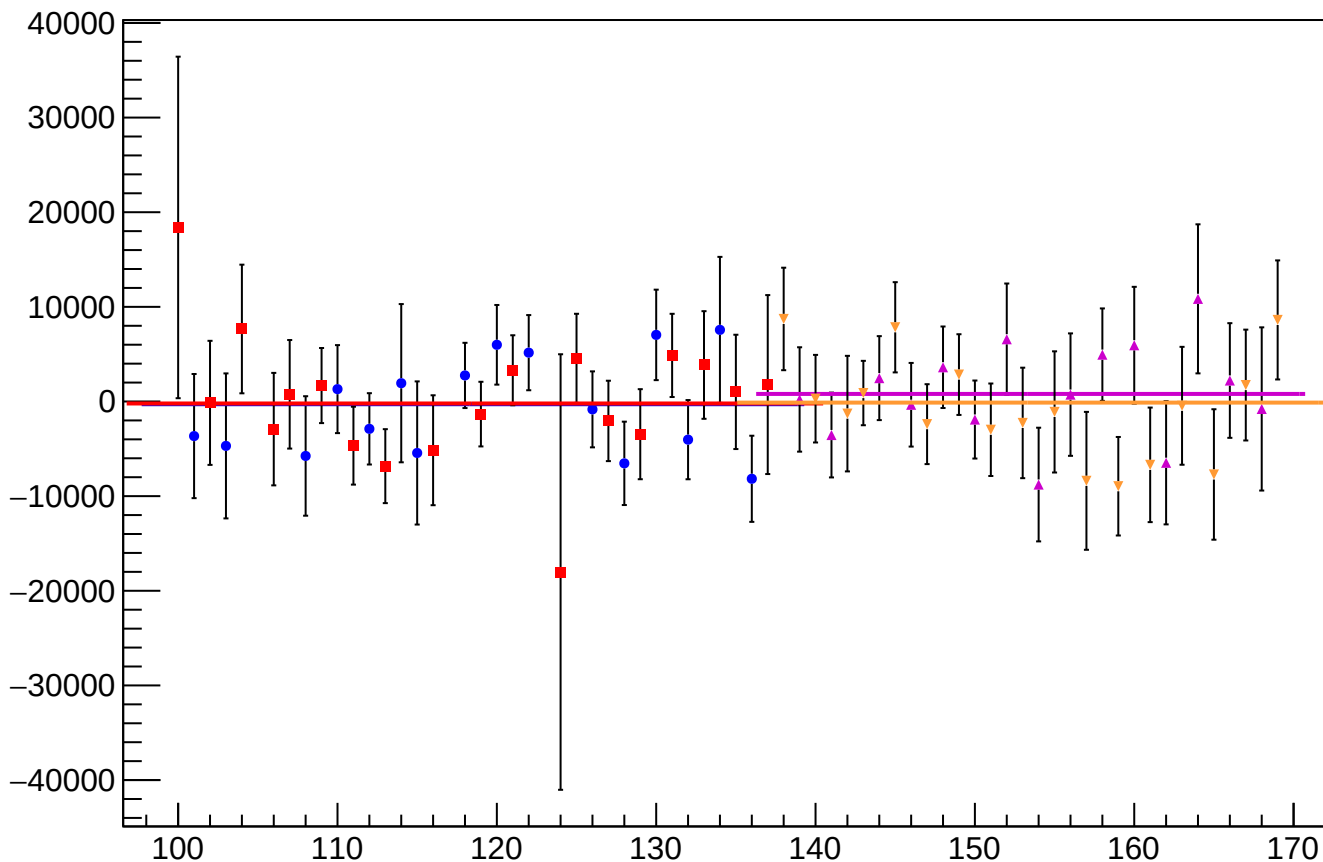
Right: 2359.701 $\pm$ 0.461 χ^2 /NDF: 3097663.3/34

In: 3190.055 $\pm$ 0.555 χ^2 /NDF: 5985620.7/30

Out: 3002.242 $\pm$ 0.508 χ^2 /NDF: 6475362.0/35

All: 3087.882 $\pm$ 0.375 χ^2 /NDF: 12523353.6/69

asym_atl_dd_mean vs Slug, Sign Corrected



Right In: -287.276 ± 1197.339 $\chi^2/\text{NDF}: 16.6/15$

Left Out: -116.825 ± 1260.739 $\chi^2/\text{NDF}: 15.5/16$

Right Out: -209.473 ± 1153.742 $\chi^2/\text{NDF}: 12.9/18$

Left In: 799.576 ± 1378.120 $\chi^2/\text{NDF}: 9.9/14$

Left: 300.693 ± 930.212 $\chi^2/\text{NDF}: 25.6/31$

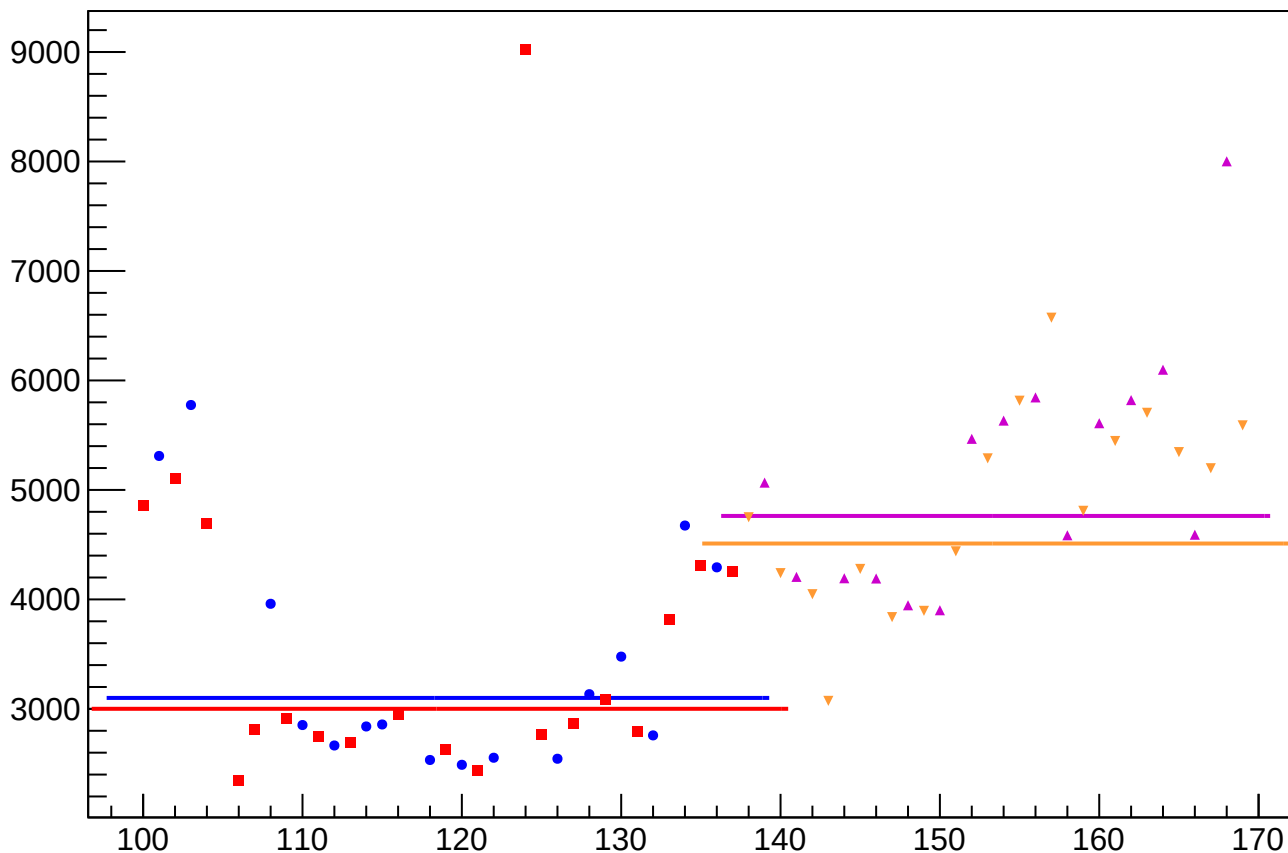
Right: -246.932 ± 830.804 $\chi^2/\text{NDF}: 29.4/34$

In: 180.234 ± 903.852 $\chi^2/\text{NDF}: 26.8/30$

Out: -167.246 ± 851.136 $\chi^2/\text{NDF}: 28.3/35$

All: -3.934 ± 619.643 $\chi^2/\text{NDF}: 55.2/66$

asym_atl_dd_rms vs Slug, Sign Corrected



Right In: 3100.135+/-0.847 χ^2/NDF : 963669.6/15

Left Out: 4510.399+/-0.891 χ^2/NDF : 999539.6/16

Right Out: 3000.750+/-0.805 χ^2/NDF : 806601.4/18

Left In: 4762.395+/-0.974 χ^2/NDF : 823711.5/14

Left: 4625.210+/-0.658 χ^2/NDF : 1859655.9/31

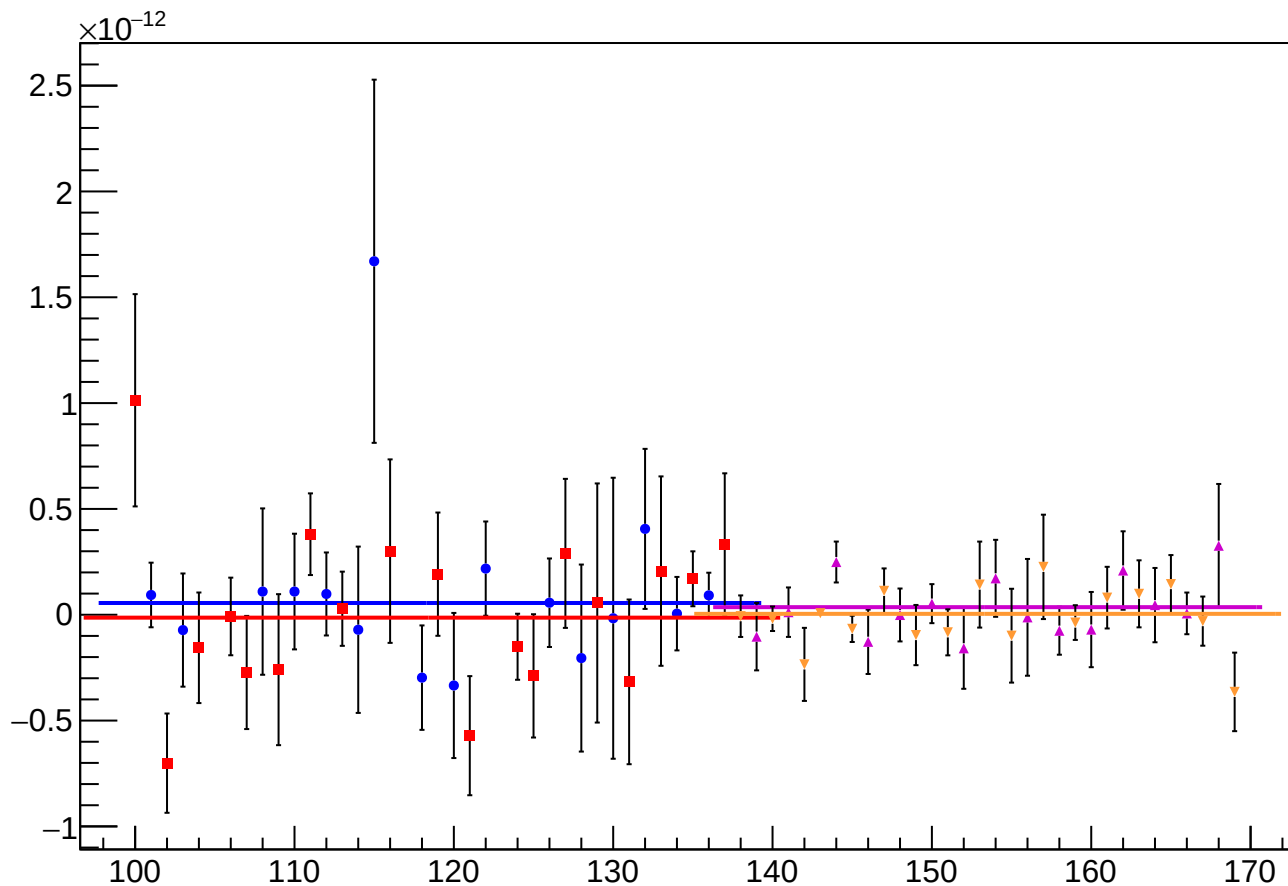
Right: 3047.926+/-0.583 χ^2/NDF : 1777509.7/34

In: 3815.156+/-0.639 χ^2/NDF : 3445497.0/30

Out: 3678.641+/-0.597 χ^2/NDF : 3386125.4/35

All: 3742.295+/-0.436 χ^2/NDF : 6855972.9/66

asym_atl_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :13.1/16

Right Out: -0.000+/-0.000 χ^2/NDF : 30.0/18

Left In: 0.000+/-0.000 χ^2/NDF :11.9/14

Left: 0.000+/-0.000 χ^2/NDF : 25.8/31

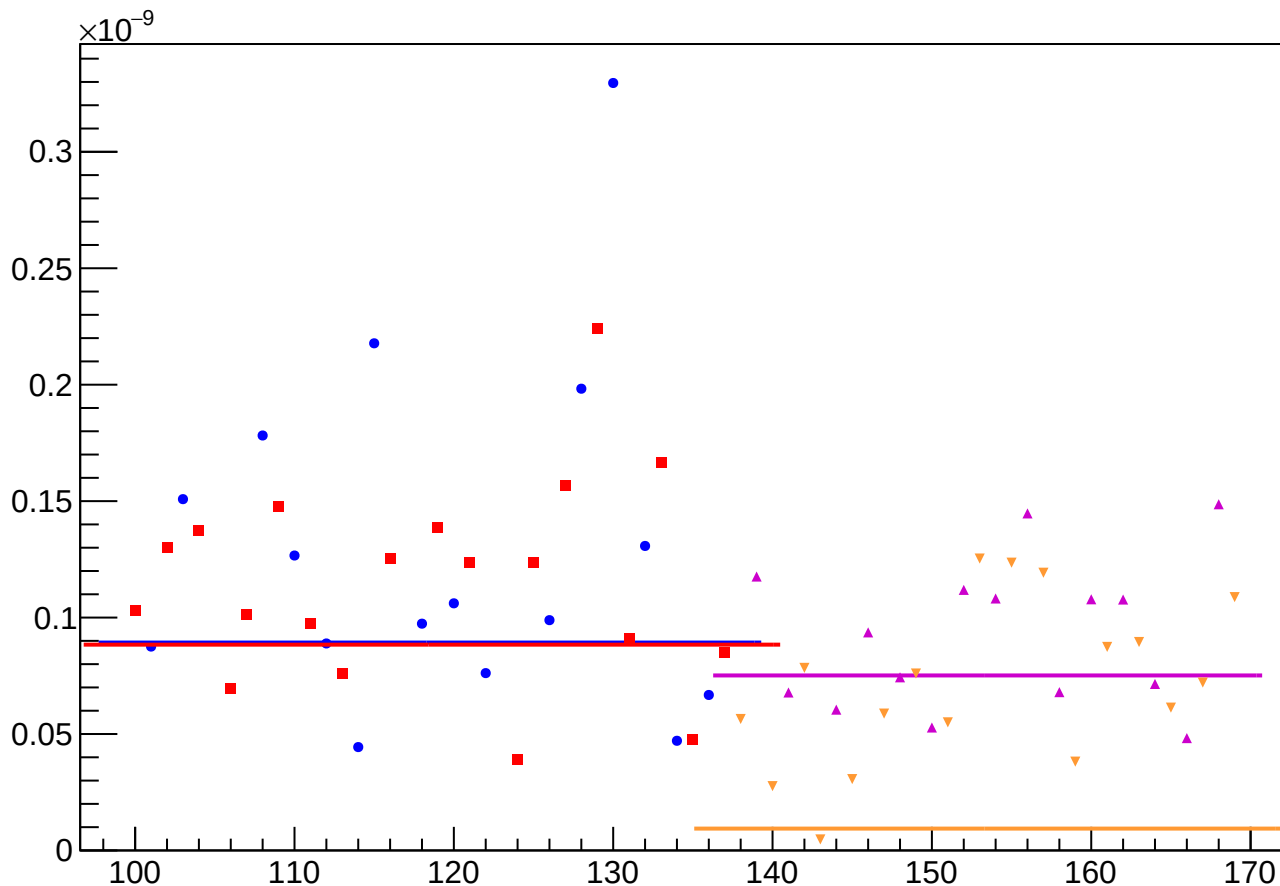
Right: 0.000+/-0.000 χ^2/NDF : 40.1/34

In: 0.000+/-0.000 χ^2/NDF :21.3/30

Out: 0.000+/-0.000 χ^2/NDF :43.3/35

All: 0.000+/-0.000 χ^2/NDF : 66.0/66

asym_atl_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 949608.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 7330691.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1013814.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 1025261.4/14

Left: 0.000+/-0.000 χ^2/NDF : 14907734.6/31

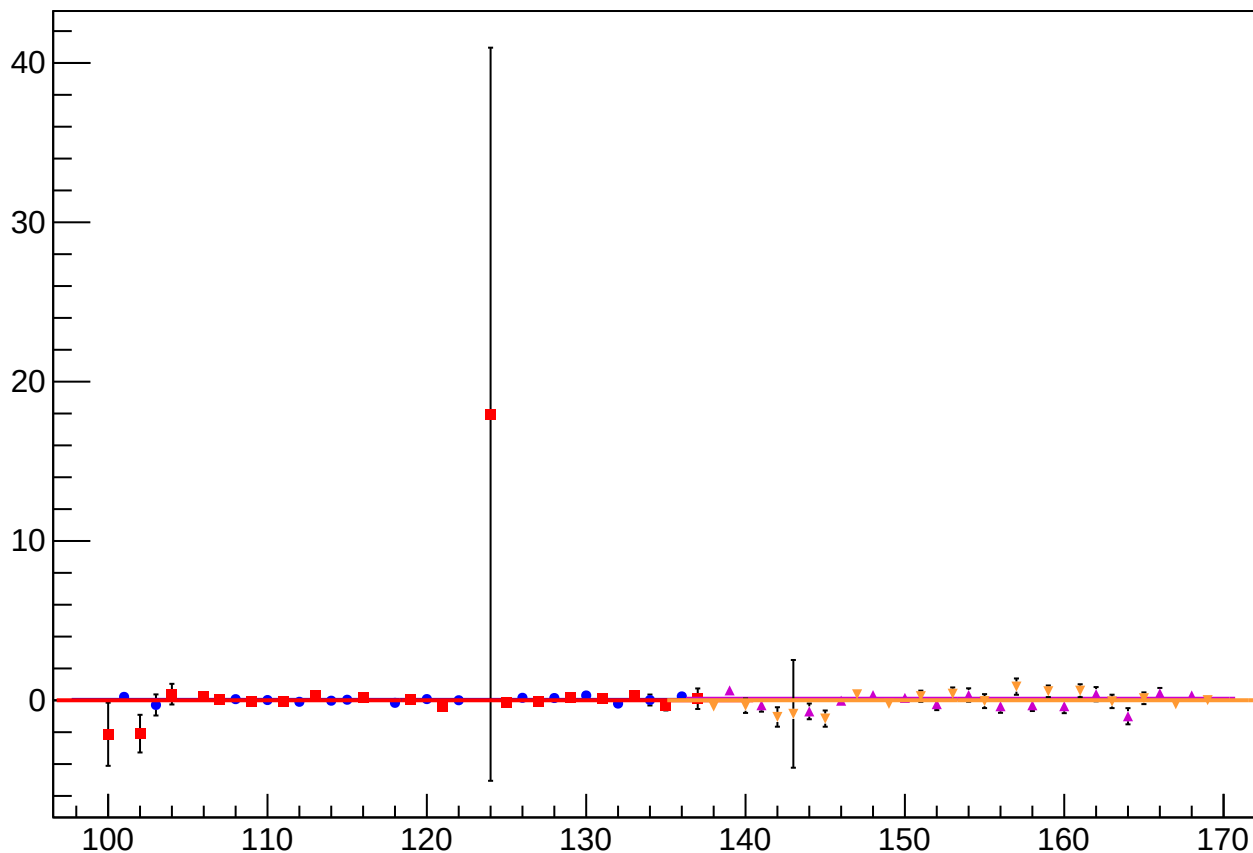
Right: 0.000+/-0.000 χ^2/NDF : 1963677.1/34

In: 0.000+/-0.000 χ^2/NDF : 2064727.8/30

Out: 0.000+/-0.000 χ^2/NDF : 12265908.5/35

All: 0.000+/-0.000 χ^2/NDF : 23872217.3/66

asym_atl_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028+/-0.045 χ^2/NDF : 8.9/15

Left Out: 0.005+/-0.083 χ^2/NDF :22.8/16

Right Out: 0.003+/-0.043 χ^2/NDF : 22.4/18

Left In: 0.099+/-0.089 χ^2/NDF :21.0/14

Left: 0.049+/-0.061 χ^2/NDF : 44.3/31

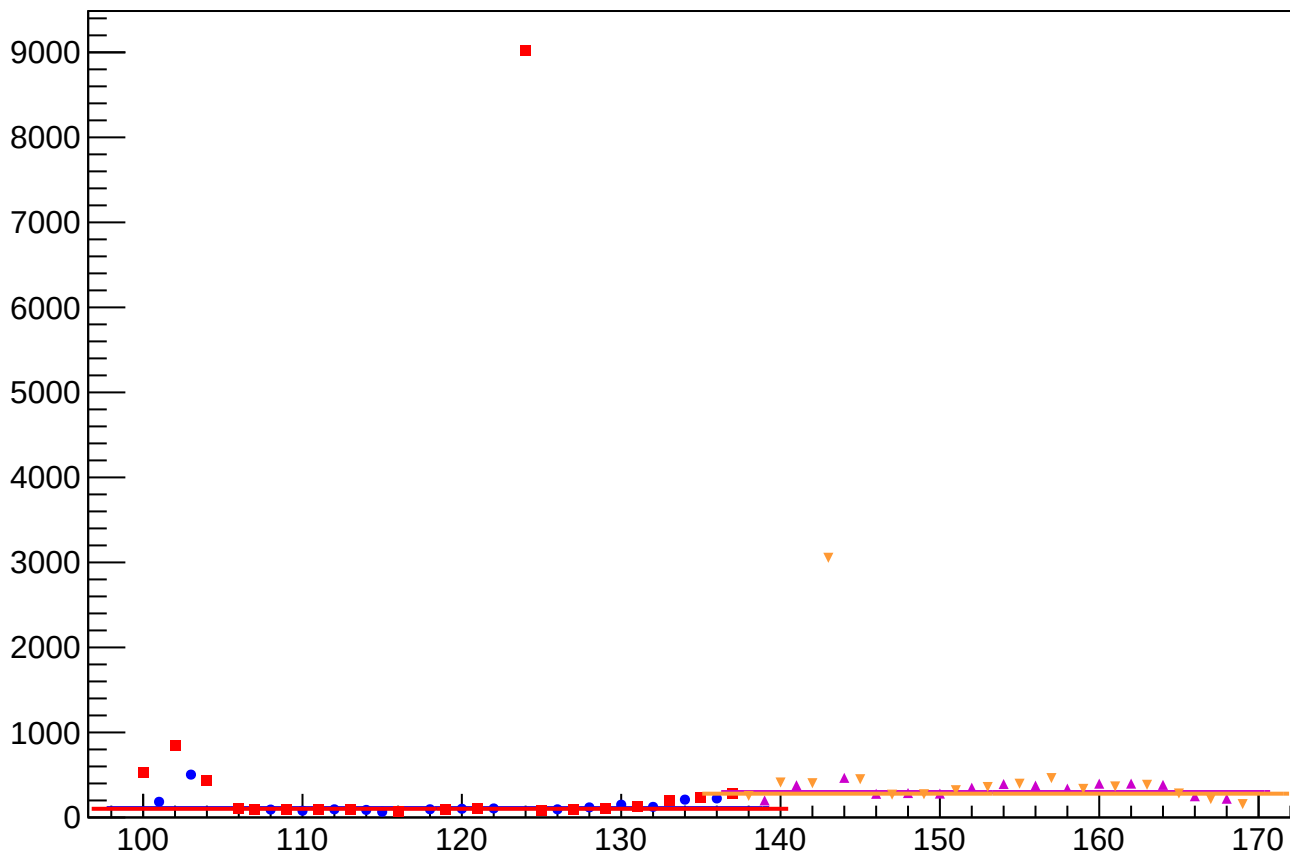
Right: 0.015+/-0.031 χ^2/NDF : 31.4/34

In: 0.043+/-0.040 χ^2/NDF :30.3/30

Out: 0.004+/-0.038 χ^2/NDF :45.2/35

All: 0.022+/-0.028 χ^2/NDF : 76.0/66

asym_atl_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.988+/-0.032 χ^2/NDF : 1930558.2/15

Left Out: 279.689+/-0.059 χ^2/NDF : 3710237.4/16

Right Out: 101.852+/-0.031 χ^2/NDF : 2589792.8/18

Left In: 298.965+/-0.063 χ^2/NDF : 1426465.7/14

Left: 288.687+/-0.043 χ^2/NDF : 5187080.6/31

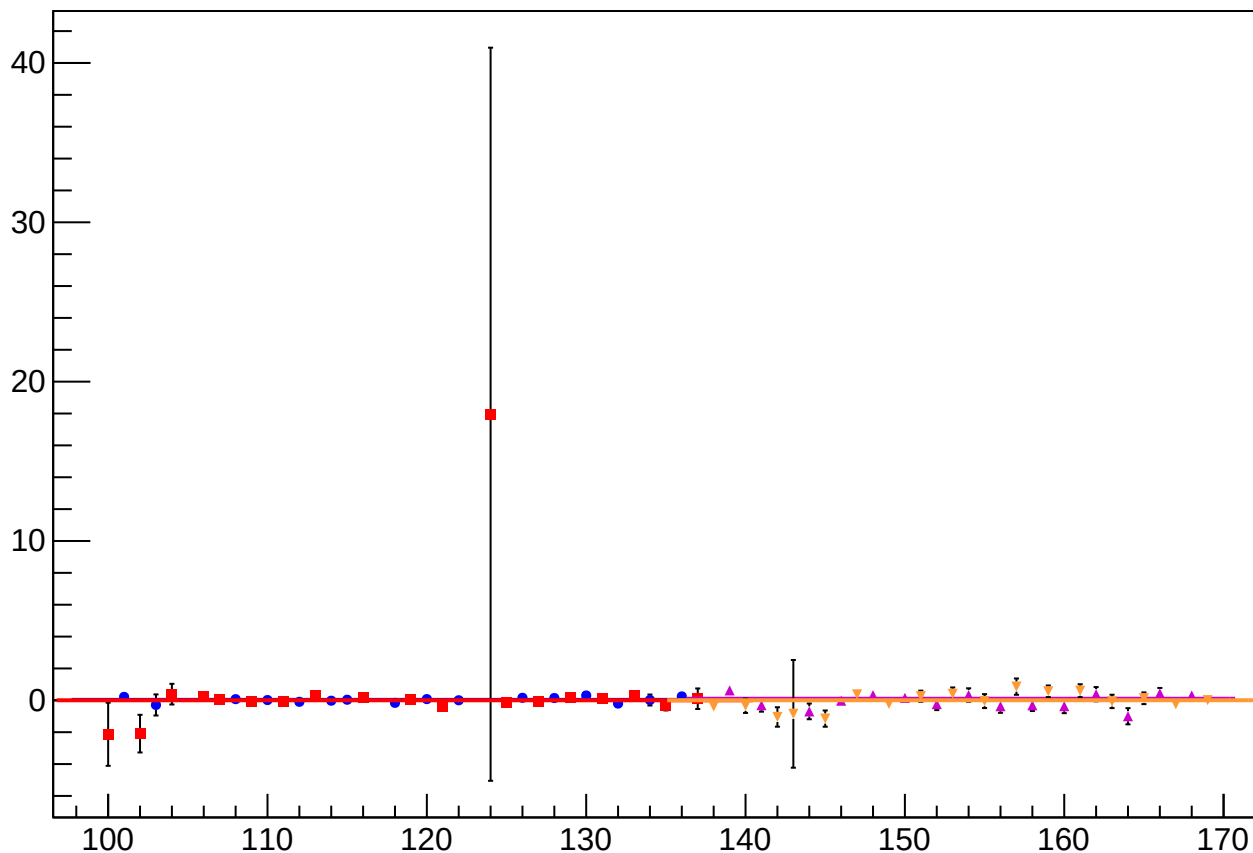
Right: 105.743+/-0.022 χ^2/NDF : 4554008.7/34

In: 149.090+/-0.029 χ^2/NDF : 10558635.1/30

Out: 140.011+/-0.027 χ^2/NDF : 13515146.0/35

All: 144.331+/-0.020 χ^2/NDF : 24126883.4/66

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.045 χ^2 /NDF: 8.9/15

Left Out: 0.005 $\pm$ 0.083 χ^2 /NDF:22.8/16

Right Out: 0.003 $\pm$ 0.043 χ^2 /NDF: 22.4/18

Left In: 0.099 $\pm$ 0.089 χ^2 /NDF:21.0/14

Left: 0.049 $\pm$ 0.061 χ^2 /NDF: 44.3/31

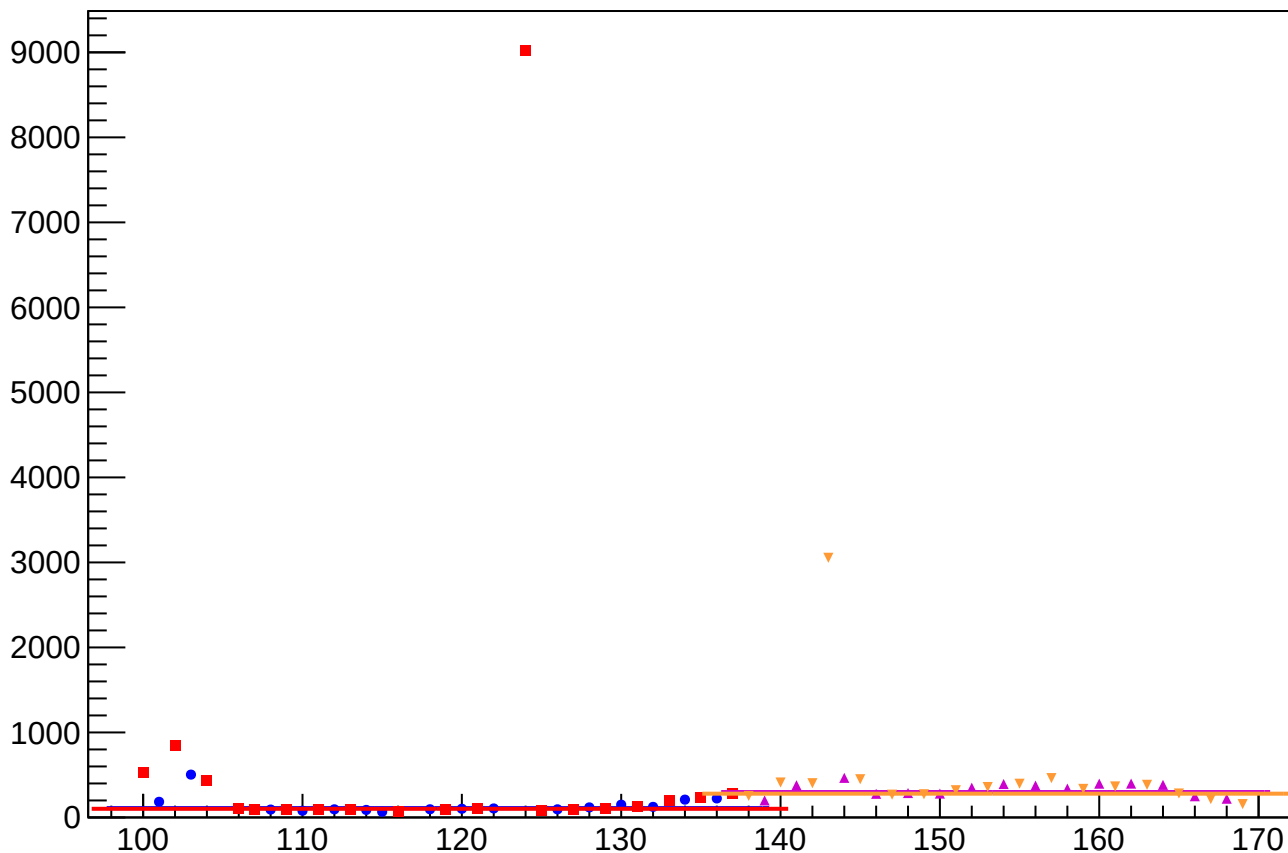
Right: 0.015 $\pm$ 0.031 χ^2 /NDF: 31.4/34

In: 0.043 $\pm$ 0.040 χ^2 /NDF:30.3/30

Out: 0.004 $\pm$ 0.038 χ^2 /NDF:45.2/35

All: 0.022 $\pm$ 0.028 χ^2 /NDF: 76.0/66

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.988 $\pm$ 0.032 χ^2 /NDF: 1930558.2/15

Left Out: 279.689 $\pm$ 0.059 χ^2 /NDF: 3710237.4/16

Right Out: 101.852 $\pm$ 0.031 χ^2 /NDF: 2589792.8/18

Left In: 298.965 $\pm$ 0.063 χ^2 /NDF: 1426465.7/14

Left: 288.687 $\pm$ 0.043 χ^2 /NDF: 5187080.6/31

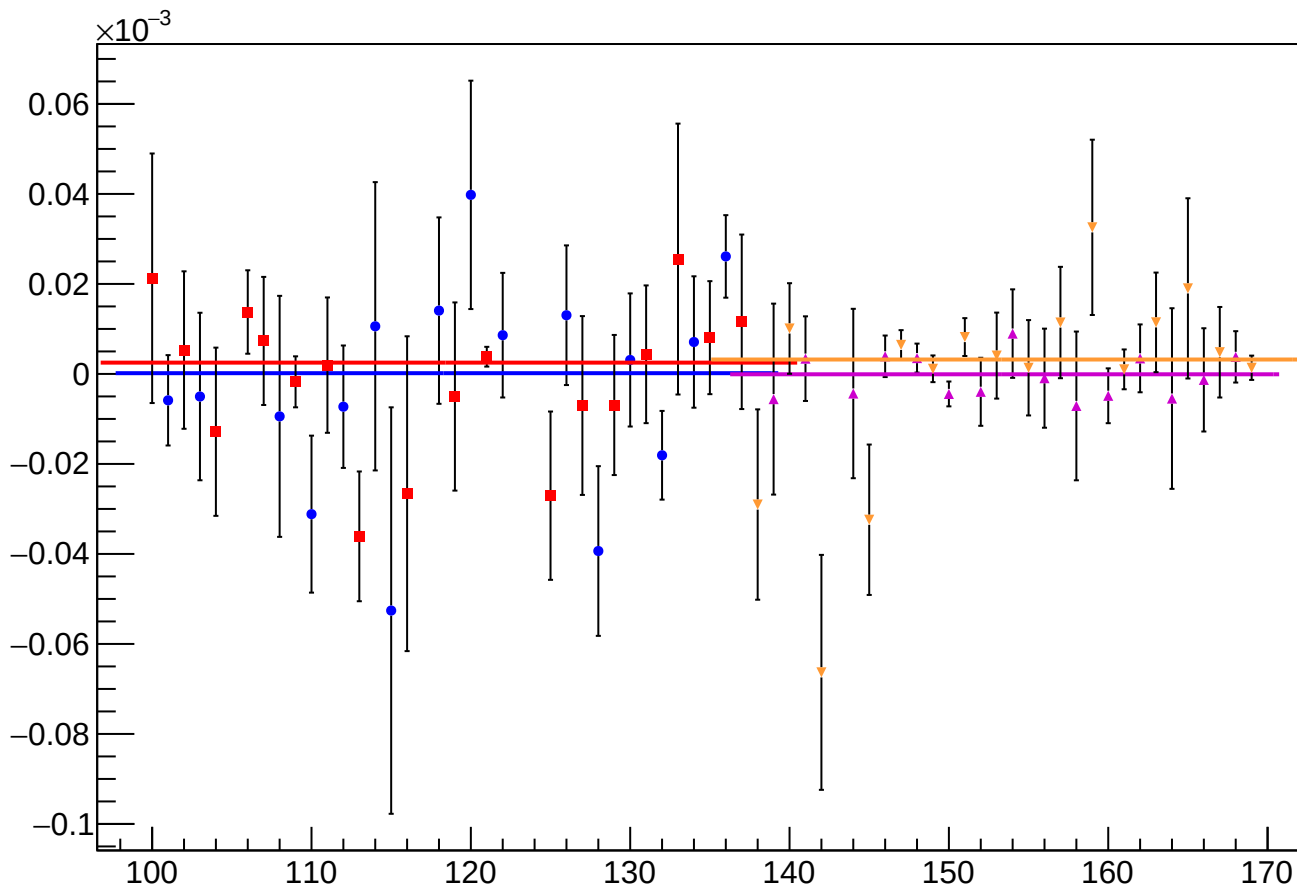
Right: 105.743 $\pm$ 0.022 χ^2 /NDF: 4554008.7/34

In: 149.090 $\pm$ 0.029 χ^2 /NDF: 10558635.1/30

Out: 140.011 $\pm$ 0.027 χ^2 /NDF: 13515146.0/35

All: 144.331 $\pm$ 0.020 χ^2 /NDF: 24126883.4/66

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 25.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 22.0/15

Right Out: 0.000+/-0.000 χ^2/NDF : 15.8/17

Left In: -0.000+/-0.000 χ^2/NDF : 7.4/14

Left: 0.000+/-0.000 χ^2/NDF : 31.9/30

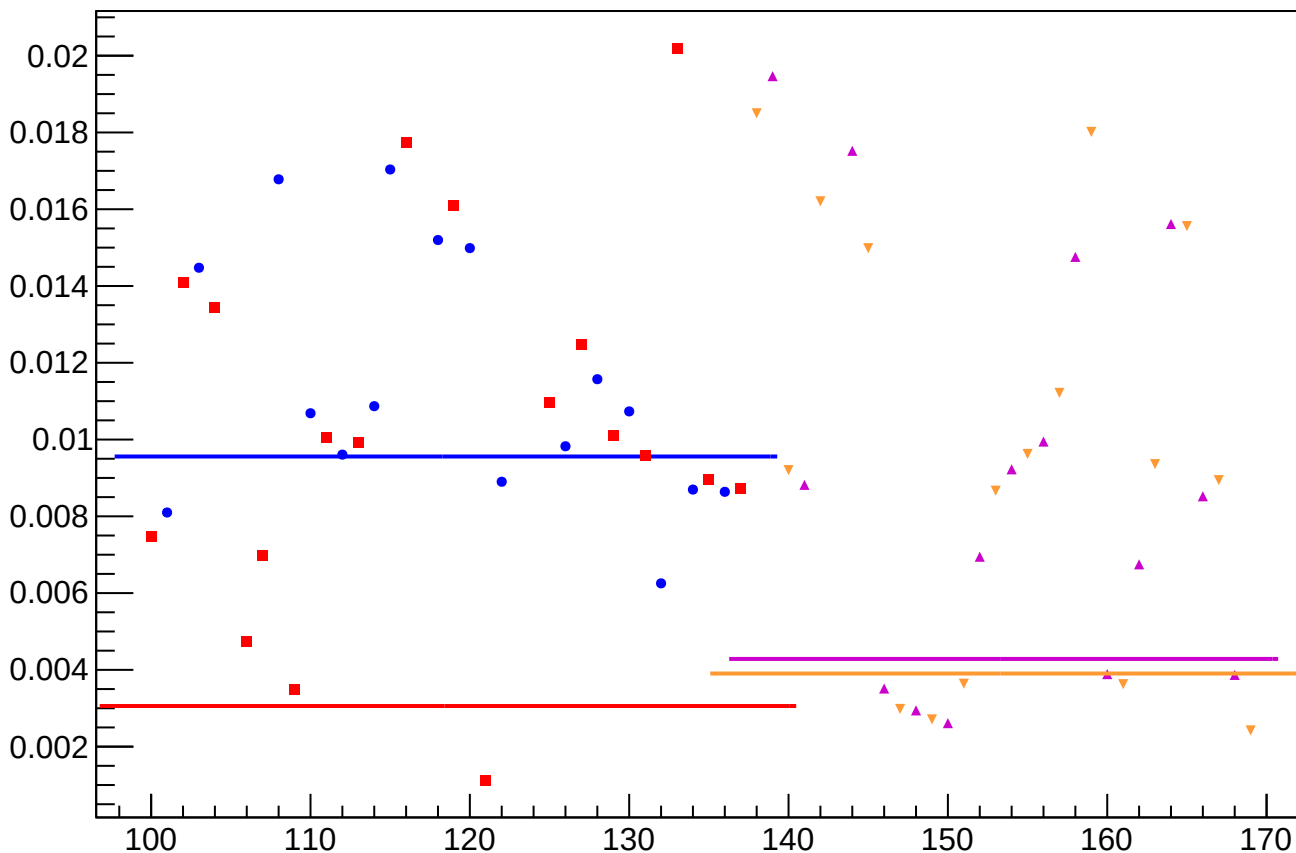
Right: 0.000+/-0.000 χ^2/NDF : 41.7/33

In: -0.000+/-0.000 χ^2/NDF : 33.0/30

Out: 0.000+/-0.000 χ^2/NDF : 37.8/33

All: 0.000+/-0.000 χ^2/NDF : 73.6/64

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 926018.8/15

Left Out: 0.004+/-0.000 χ^2/NDF : 8424112.7/15

Right Out: 0.003+/-0.000 χ^2/NDF : 8122378.4/17

Left In: 0.004+/-0.000 χ^2/NDF : 6843996.8/14

Left: 0.004+/-0.000 χ^2/NDF : 15334831.7/30

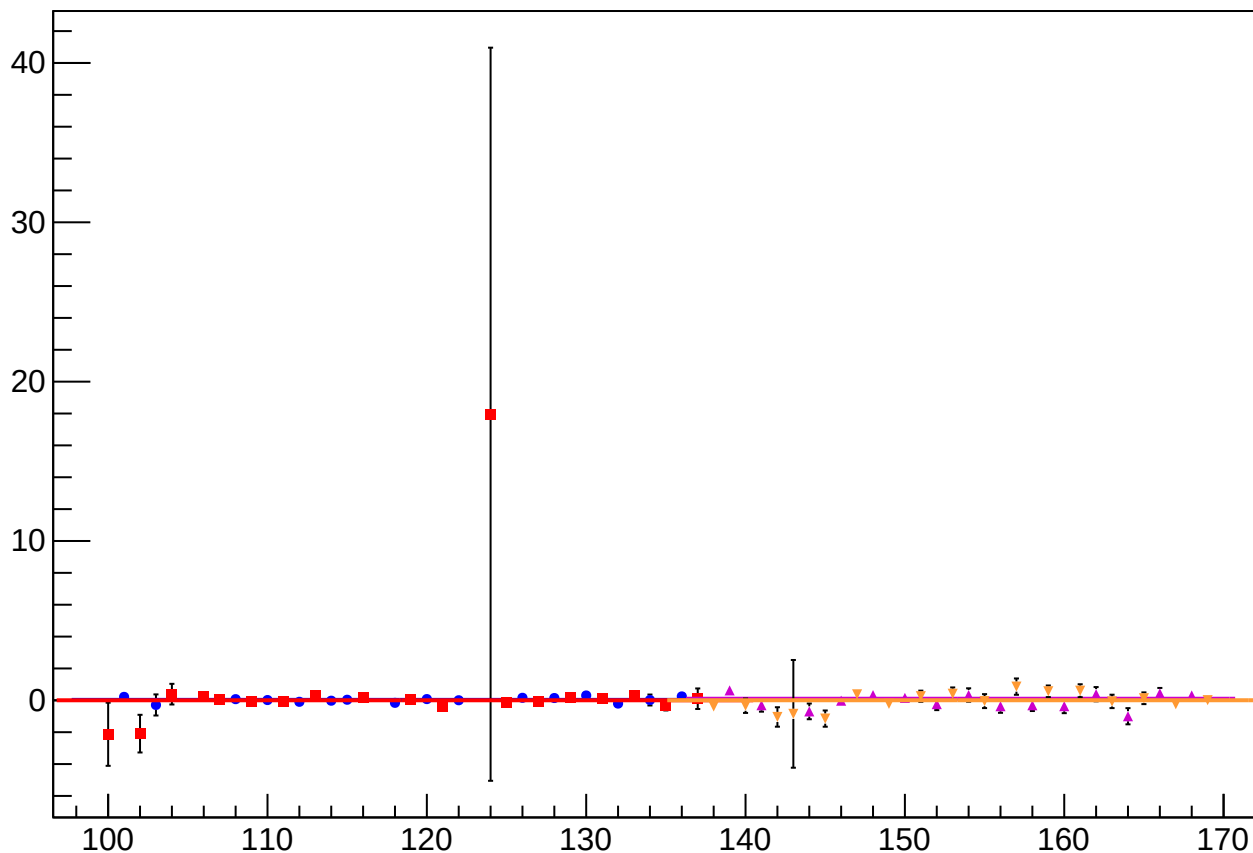
Right: 0.004+/-0.000 χ^2/NDF : 13944710.4/33

In: 0.005+/-0.000 χ^2/NDF : 11178786.2/30

Out: 0.004+/-0.000 χ^2/NDF : 16818180.6/33

All: 0.004+/-0.000 χ^2/NDF : 29311085.2/64

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.045 χ^2 /NDF: 8.9/15

Left Out: 0.005 $\pm$ 0.083 χ^2 /NDF:22.8/16

Right Out: 0.003 $\pm$ 0.043 χ^2 /NDF: 22.4/18

Left In: 0.099 $\pm$ 0.089 χ^2 /NDF:21.0/14

Left: 0.049 $\pm$ 0.061 χ^2 /NDF: 44.3/31

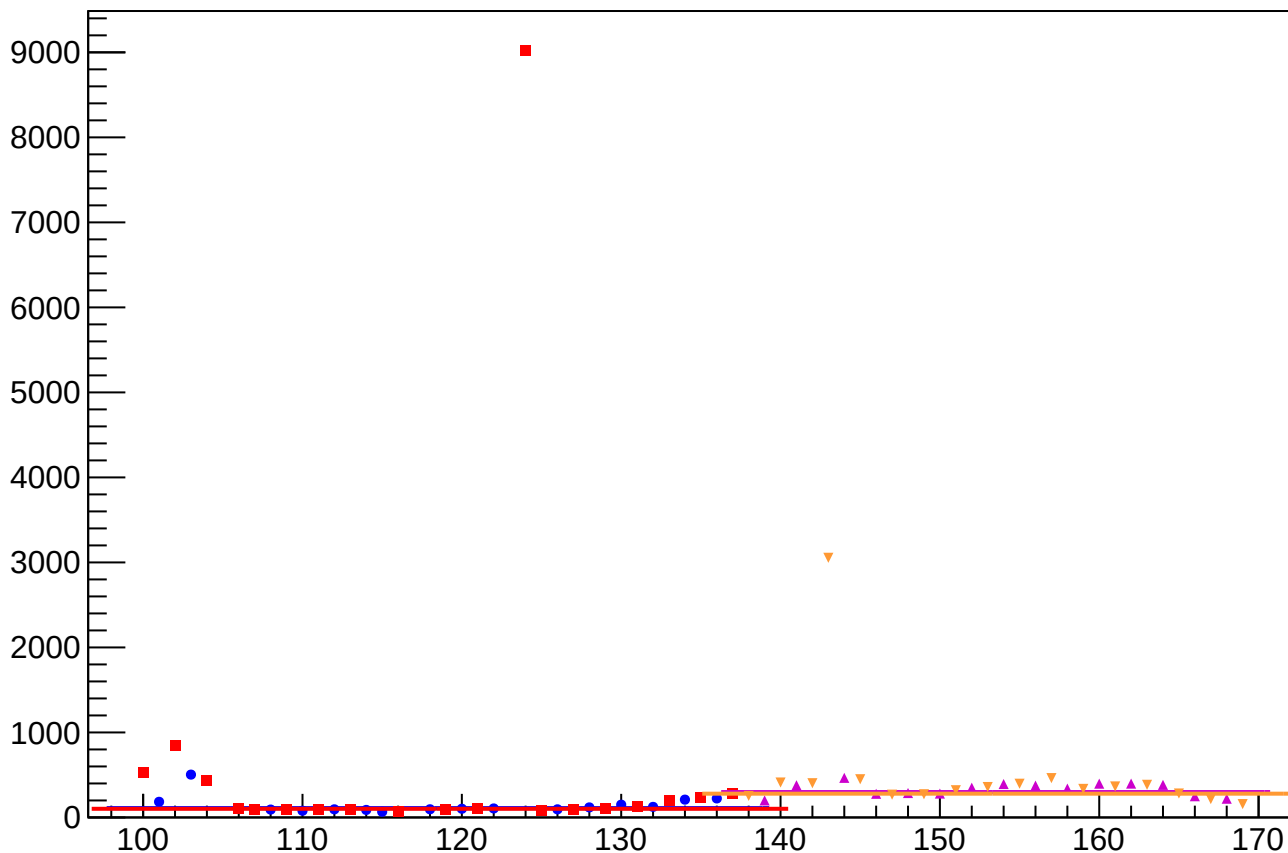
Right: 0.015 $\pm$ 0.031 χ^2 /NDF: 31.4/34

In: 0.043 $\pm$ 0.040 χ^2 /NDF:30.3/30

Out: 0.004 $\pm$ 0.038 χ^2 /NDF:45.2/35

All: 0.022 $\pm$ 0.028 χ^2 /NDF: 76.0/66

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.989 $\pm$ 0.032 χ^2 /NDF: 1930489.2/15

Left Out: 279.691 $\pm$ 0.059 χ^2 /NDF: 3710319.4/16

Right Out: 101.853 $\pm$ 0.031 χ^2 /NDF: 2589710.5/18

Left In: 298.970 $\pm$ 0.063 χ^2 /NDF: 1426442.9/14

Left: 288.690 $\pm$ 0.043 χ^2 /NDF: 5187151.0/31

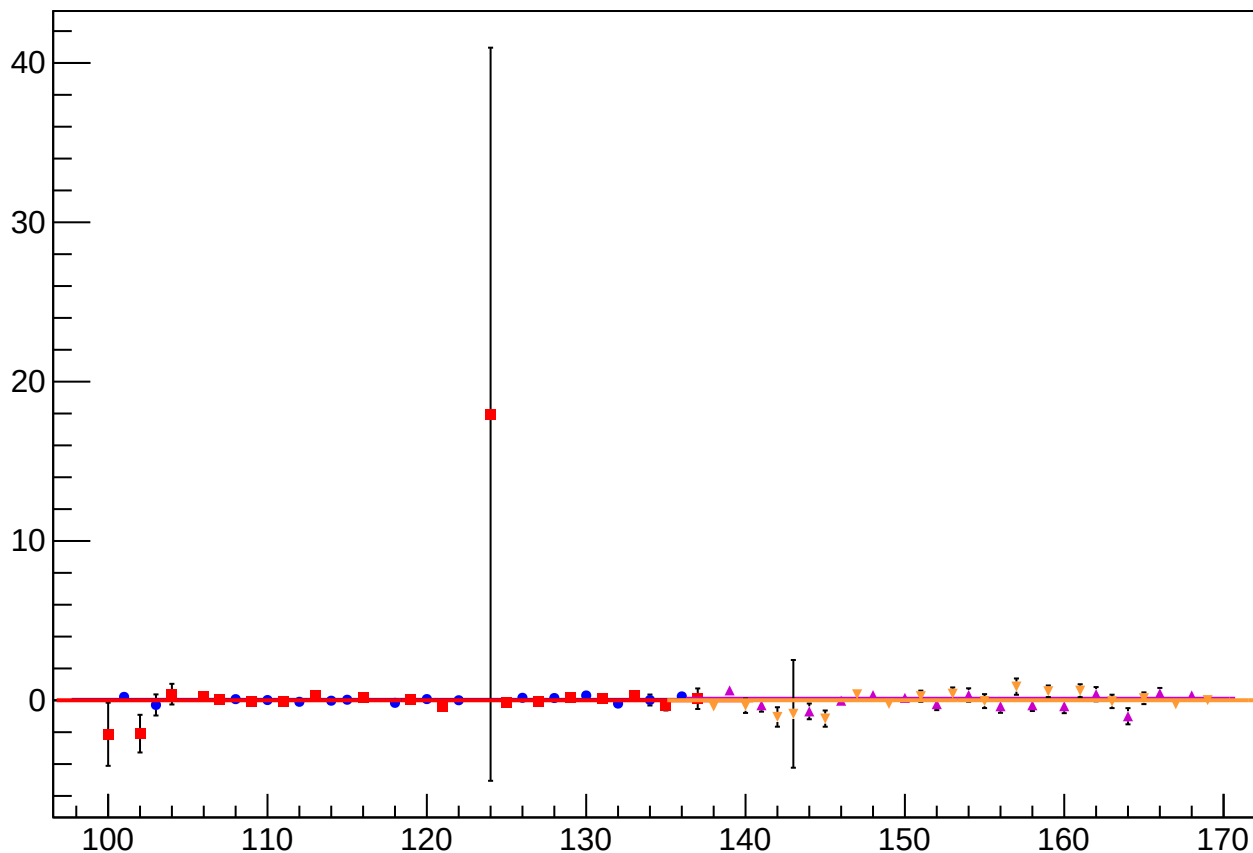
Right: 105.744 $\pm$ 0.022 χ^2 /NDF: 4553853.6/34

In: 149.091 $\pm$ 0.029 χ^2 /NDF: 10558633.9/30

Out: 140.012 $\pm$ 0.027 χ^2 /NDF: 13515084.1/35

All: 144.332 $\pm$ 0.020 χ^2 /NDF: 24126815.6/66

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.045 χ^2 /NDF: 8.9/15

Left Out: 0.005 $\pm$ 0.083 χ^2 /NDF:22.8/16

Right Out: 0.003 $\pm$ 0.043 χ^2 /NDF: 22.4/18

Left In: 0.099 $\pm$ 0.089 χ^2 /NDF:21.0/14

Left: 0.049 $\pm$ 0.061 χ^2 /NDF: 44.3/31

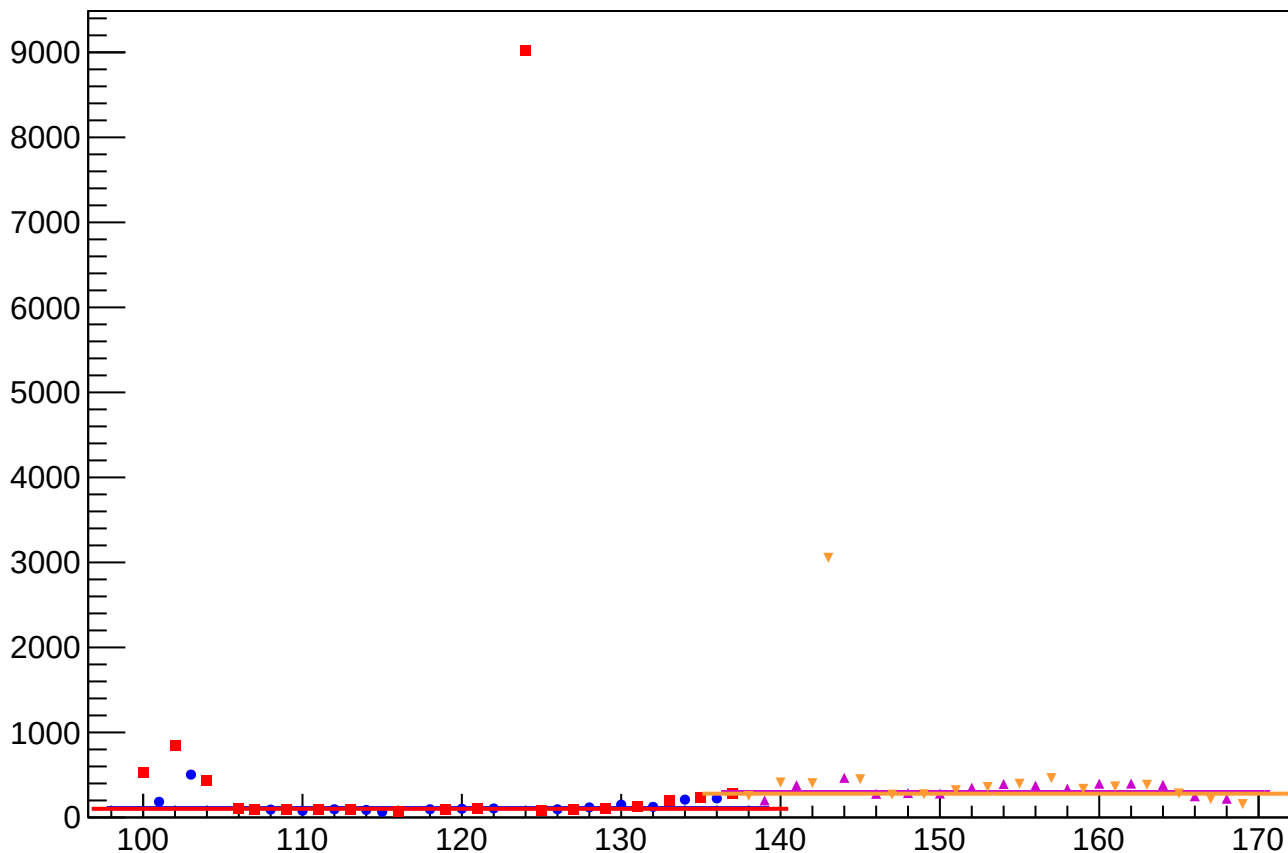
Right: 0.015 $\pm$ 0.031 χ^2 /NDF: 31.4/34

In: 0.043 $\pm$ 0.040 χ^2 /NDF:30.3/30

Out: 0.004 $\pm$ 0.038 χ^2 /NDF:45.2/35

All: 0.022 $\pm$ 0.028 χ^2 /NDF: 76.0/66

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 109.989 $\pm$ 0.032 χ^2 /NDF: 1930489.2/15

Left Out: 279.691 $\pm$ 0.059 χ^2 /NDF: 3710319.4/16

Right Out: 101.853 $\pm$ 0.031 χ^2 /NDF: 2589710.5/18

Left In: 298.970 $\pm$ 0.063 χ^2 /NDF: 1426442.9/14

Left: 288.690 $\pm$ 0.043 χ^2 /NDF: 5187151.0/31

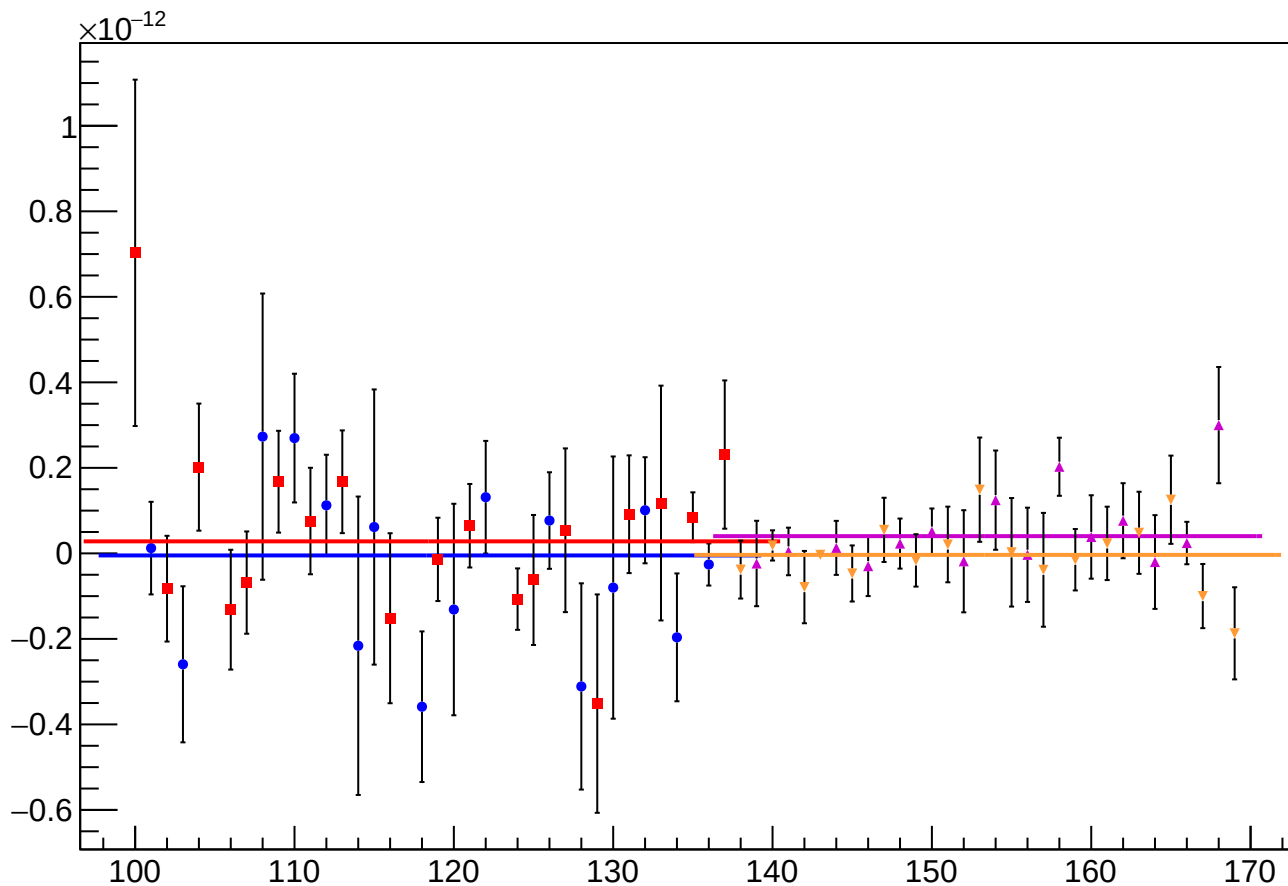
Right: 105.744 $\pm$ 0.022 χ^2 /NDF: 4553853.6/34

In: 149.091 $\pm$ 0.029 χ^2 /NDF: 10558633.9/30

Out: 140.012 $\pm$ 0.027 χ^2 /NDF: 13515084.1/35

All: 144.332 $\pm$ 0.020 χ^2 /NDF: 24126815.6/66

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 17.5/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 10.8/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 19.6/18

Left In: 0.000 ± 0.000 χ^2/NDF : 13.0/14

Left: -0.000 ± 0.000 χ^2/NDF : 28.6/31

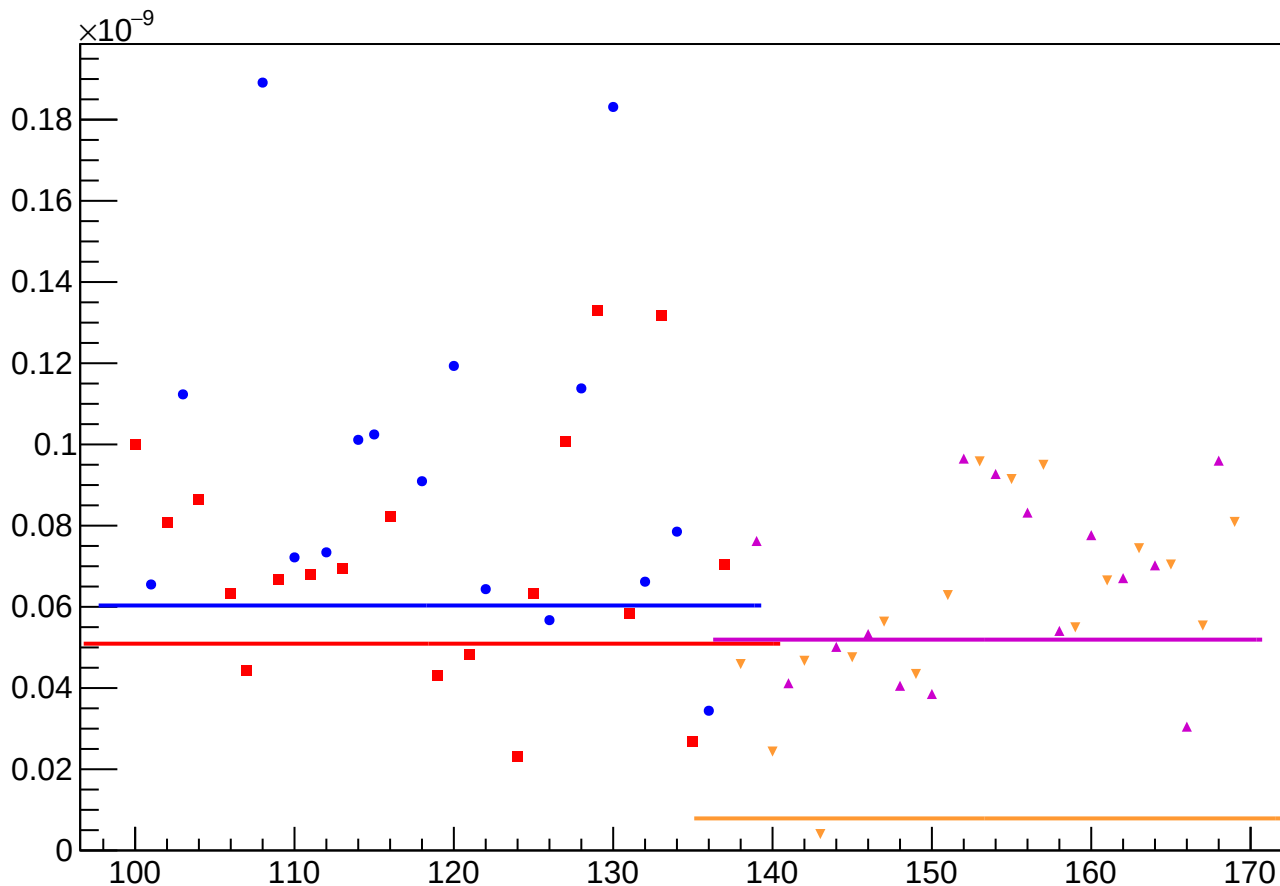
Right: 0.000 ± 0.000 χ^2/NDF : 37.8/34

In: 0.000 ± 0.000 χ^2/NDF : 32.0/30

Out: -0.000 ± 0.000 χ^2/NDF : 31.7/35

All: 0.000 ± 0.000 χ^2/NDF : 66.9/66

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1746170.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :13412409.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1667004.7/18

Left In: 0.000+/-0.000 χ^2/NDF :1919551.2/14

Left: 0.000+/-0.000 χ^2/NDF : 25150304.9/31

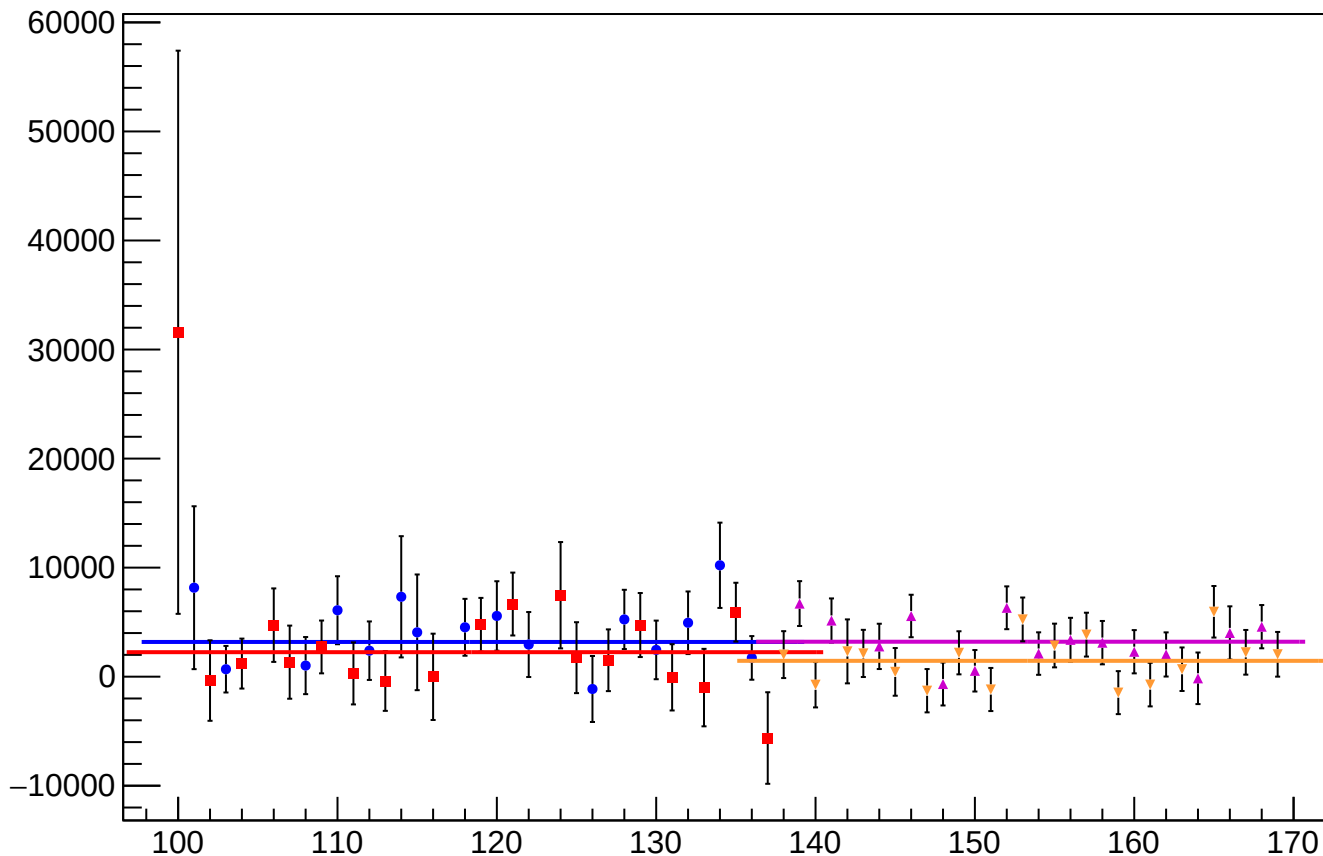
Right: 0.000+/-0.000 χ^2/NDF : 3514375.8/34

In: 0.000+/-0.000 χ^2/NDF :3768618.8/30

Out: 0.000+/-0.000 χ^2/NDF :19897991.3/35

All: 0.000+/-0.000 χ^2/NDF : 37125274.8/66

reg_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3183.705+/-731.133 χ^2/NDF : 11.7/15

Left Out: 1452.658+/-505.747 χ^2/NDF : 18.3/16

Right Out: 2246.057+/-710.912 χ^2/NDF : 16.5/18

Left In: 3204.524+/-524.810 χ^2/NDF : 17.2/14

Left: 2296.197+/-364.170 χ^2/NDF : 41.2/31

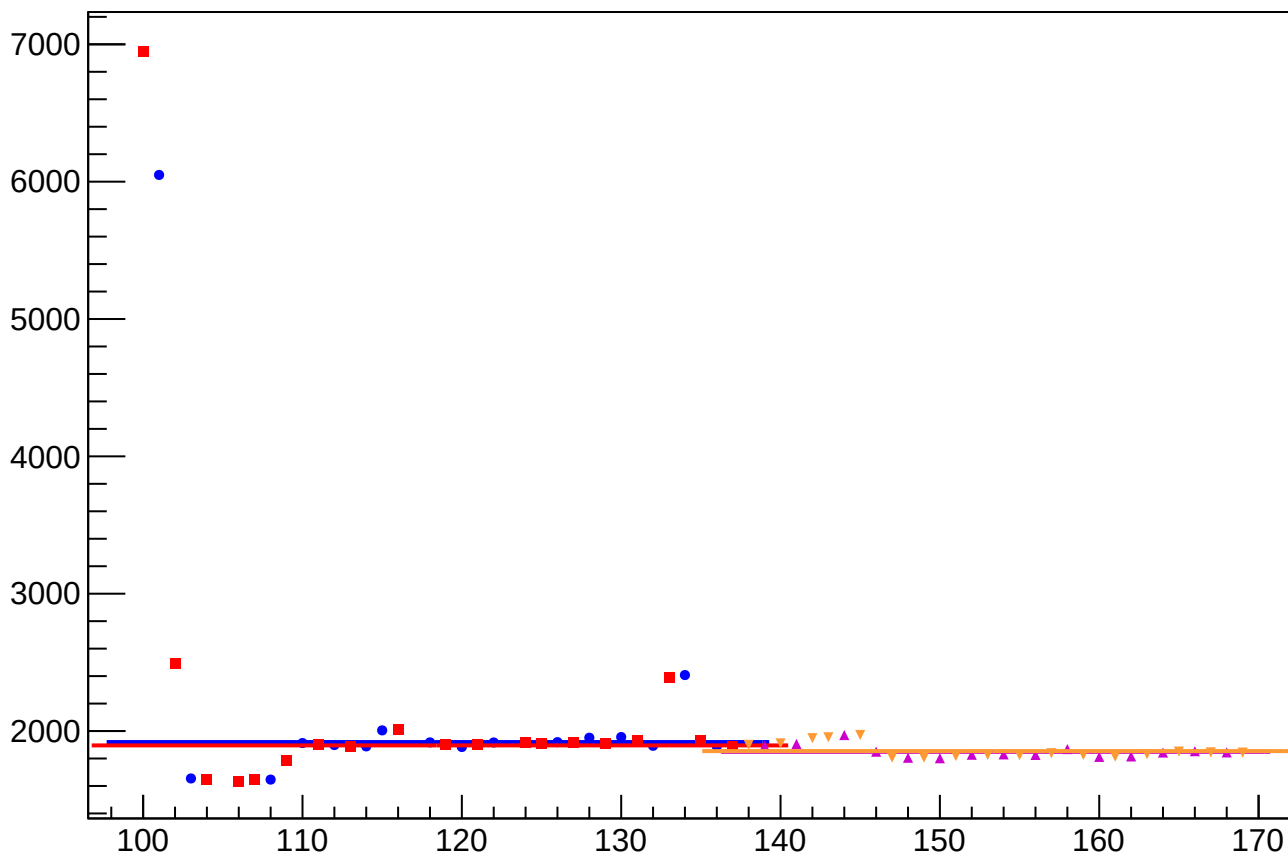
Right: 2701.735+/-509.689 χ^2/NDF : 29.1/34

In: 3197.445+/-426.345 χ^2/NDF : 28.9/30

Out: 1719.266+/-412.104 χ^2/NDF : 35.6/35

All: 2433.256+/-296.308 χ^2/NDF : 70.7/66

reg_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1919.827+/-0.517 χ^2/NDF : 697331.5/15

Left Out: 1853.894+/-0.358 χ^2/NDF : 19977.3/16

Right Out: 1895.361+/-0.501 χ^2/NDF : 222273.9/18

Left In: 1848.482+/-0.371 χ^2/NDF : 13726.3/14

Left: 1851.288+/-0.258 χ^2/NDF : 33813.8/31

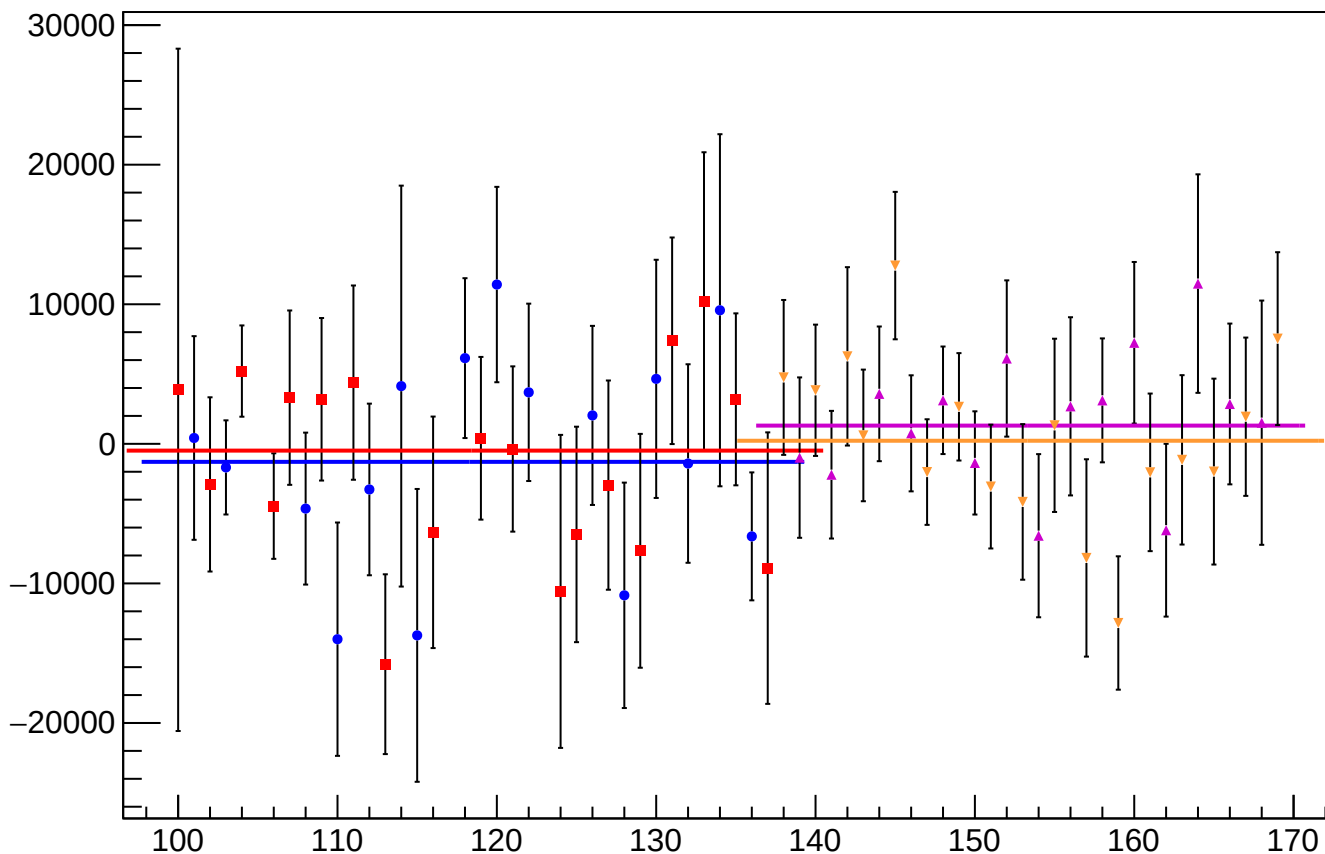
Right: 1907.209+/-0.360 χ^2/NDF : 920760.5/34

In: 1872.742+/-0.301 χ^2/NDF : 723626.3/30

Out: 1867.892+/-0.291 χ^2/NDF : 246790.2/35

All: 1870.232+/-0.209 χ^2/NDF : 970550.4/66

asym_atr_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1290.495+/-1585.432 χ^2/NDF : 14.3/15

Left Out: 221.359+/-1258.445 χ^2/NDF : 20.4/16

Right Out: -485.214+/-1437.465 χ^2/NDF : 17.2/18

Left In: 1305.930+/-1322.980 χ^2/NDF : 8.8/14

Left: 736.547+/-911.817 χ^2/NDF : 29.6/31

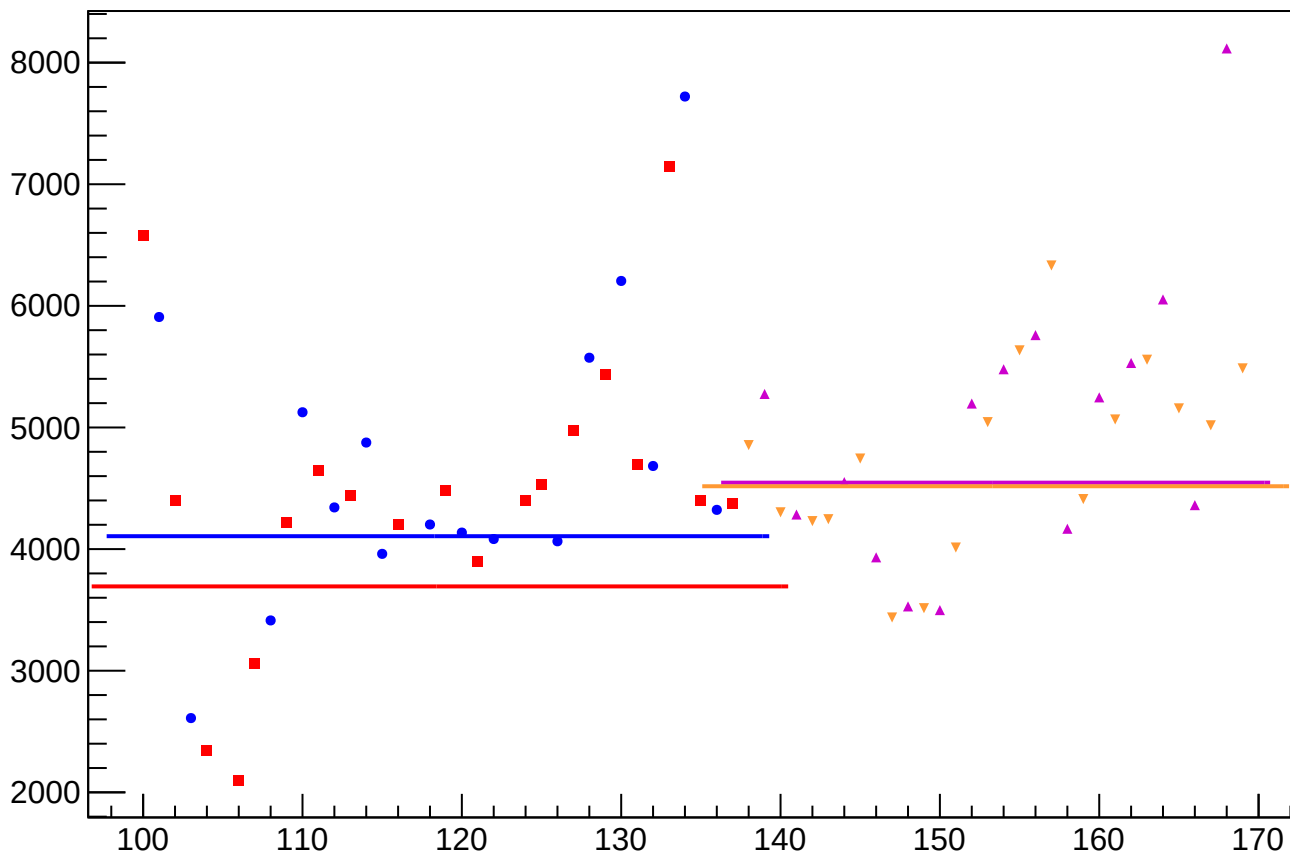
Right: -848.531+/-1064.920 χ^2/NDF : 31.6/34

In: 240.124+/-1015.779 χ^2/NDF : 24.6/30

Out: -85.214+/-946.860 χ^2/NDF : 37.8/35

All: 66.044+/-692.615 χ^2/NDF : 62.5/66

asym_atr_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 4106.141+/-1.121 χ^2/NDF : 956130.4/15

Left Out: 4516.757+/-0.890 χ^2/NDF : 726628.5/16

Right Out: 3693.266+/-1.016 χ^2/NDF : 1356643.3/18

Left In: 4546.226+/-0.935 χ^2/NDF : 1036294.1/14

Left: 4530.756+/-0.645 χ^2/NDF : 1763443.5/31

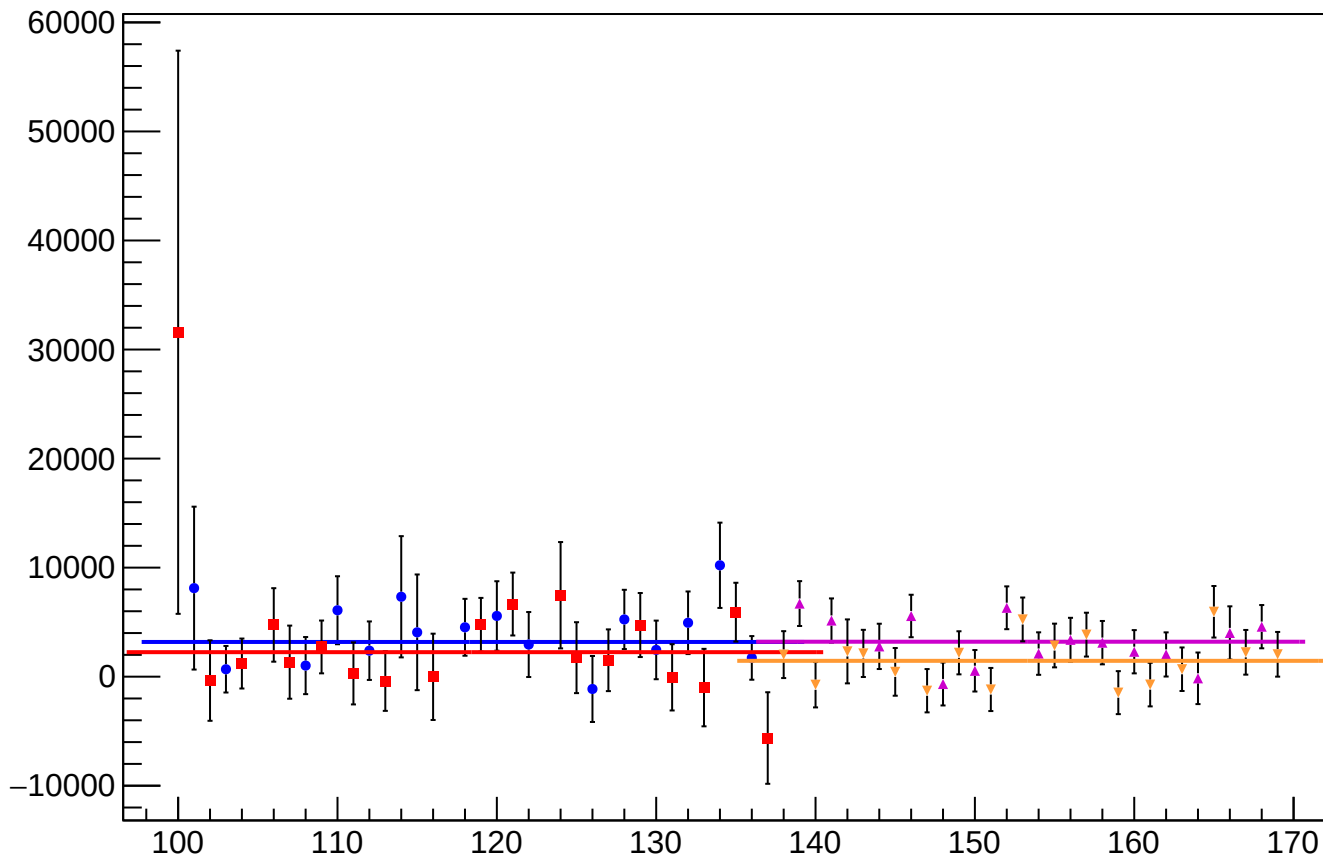
Right: 3879.542+/-0.753 χ^2/NDF : 2387214.5/34

In: 4365.576+/-0.718 χ^2/NDF : 2083269.0/30

Out: 4159.455+/-0.670 χ^2/NDF : 2454854.8/35

All: 4255.286+/-0.490 χ^2/NDF : 4582188.3/66

cor_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3182.973+/-731.133 χ^2 /NDF: 11.7/15

Left Out: 1452.533+/-505.747 χ^2 /NDF:18.3/16

Right Out: 2247.193+/-710.916 χ^2 /NDF: 16.5/18

Left In: 3204.550+/-524.810 χ^2 /NDF:17.2/14

Left: 2296.144+/-364.170 χ^2 /NDF: 41.2/31

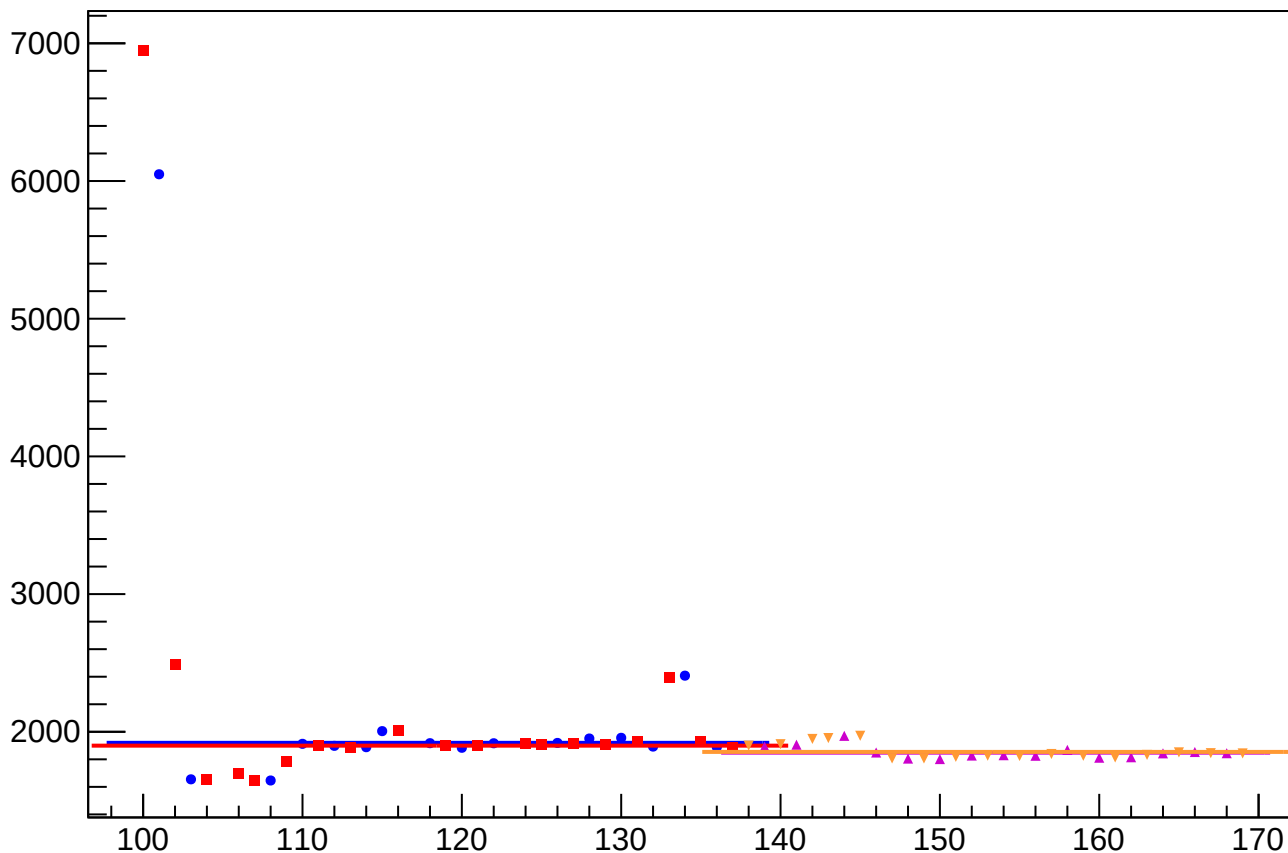
Right: 2701.966+/-509.691 χ^2 /NDF: 29.1/34

In: 3197.213+/-426.345 χ^2 /NDF:28.8/30

Out: 1719.563+/-412.105 χ^2 /NDF:35.6/35

All: 2433.299+/-296.308 χ^2 /NDF: 70.7/66

cor_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1919.827 $\pm$ 0.517 χ^2 /NDF: 697330.6/15

Left Out: 1853.894 $\pm$ 0.358 χ^2 /NDF:19977.3/16

Right Out: 1899.364 $\pm$ 0.502 χ^2 /NDF: 215654.1/18

Left In: 1848.482 $\pm$ 0.371 χ^2 /NDF:13726.3/14

Left: 1851.288 $\pm$ 0.258 χ^2 /NDF: 33813.8/31

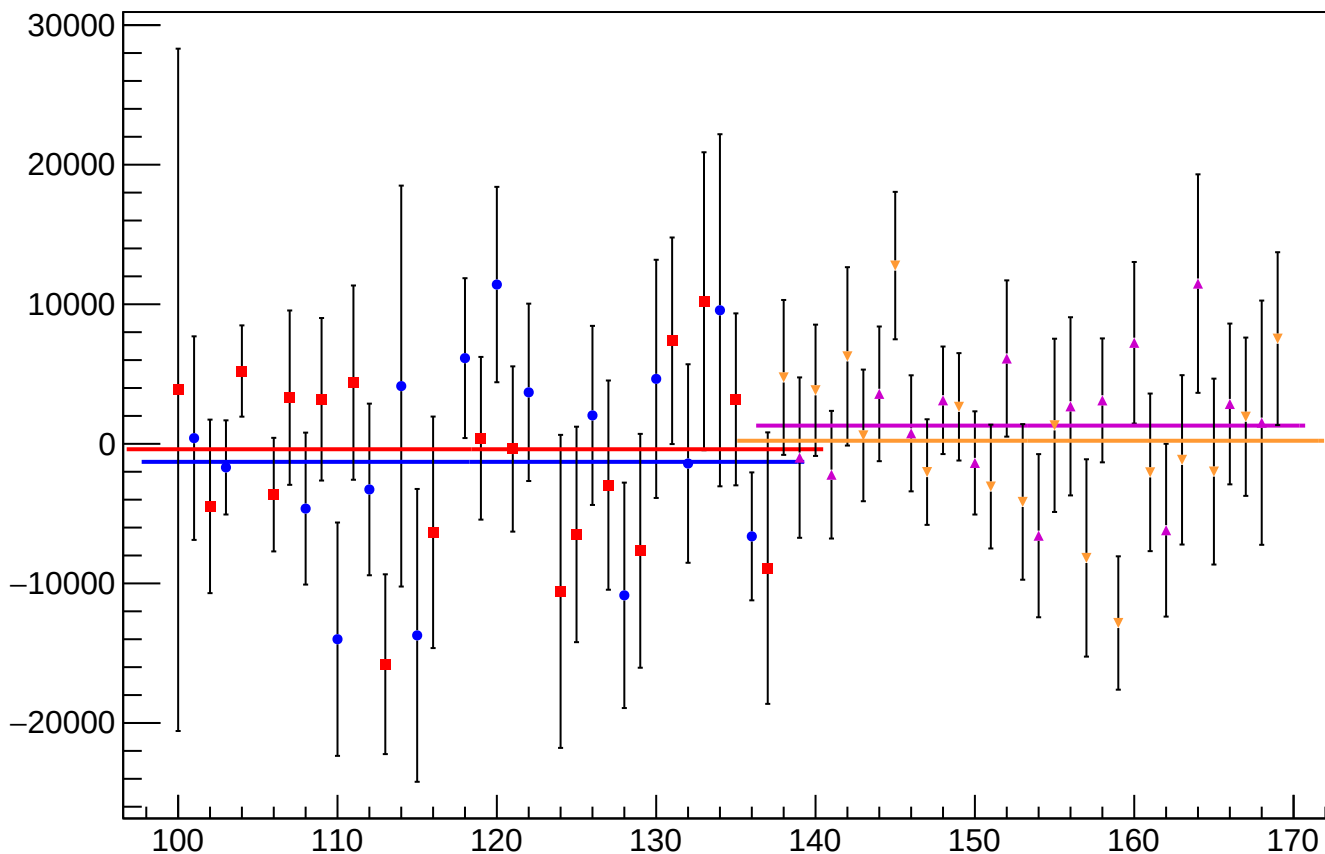
Right: 1909.293 $\pm$ 0.360 χ^2 /NDF: 913791.4/34

In: 1872.742 $\pm$ 0.301 χ^2 /NDF:723625.5/30

Out: 1869.205 $\pm$ 0.291 χ^2 /NDF:241075.2/35

All: 1870.913 $\pm$ 0.209 χ^2 /NDF: 964772.0/66

asym_atr_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1290.862 $\pm$ 1585.435 χ^2 /NDF: 14.3/15

Left Out: 221.333 $\pm$ 1258.442 χ^2 /NDF:20.4/16

Right Out: -387.626 $\pm$ 1451.530 χ^2 /NDF: 17.0/18

Left In: 1305.966 $\pm$ 1322.981 χ^2 /NDF:8.8/14

Left: 736.549 $\pm$ 911.816 χ^2 /NDF: 29.6/31

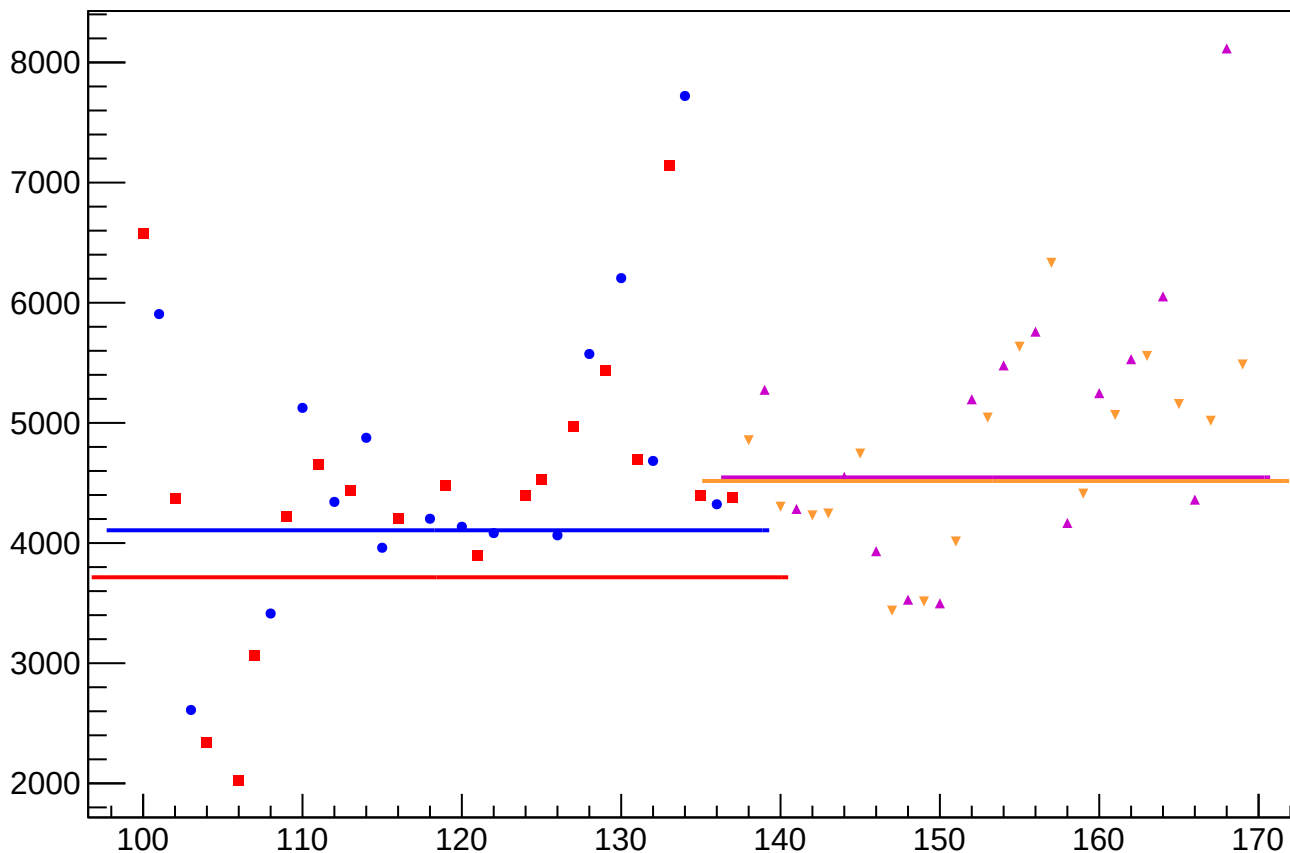
Right: -799.497 $\pm$ 1070.602 χ^2 /NDF: 31.4/34

In: 239.995 $\pm$ 1015.780 χ^2 /NDF:24.6/30

Out: -39.977 $\pm$ 950.845 χ^2 /NDF:37.5/35

All: 90.775 $\pm$ 694.171 χ^2 /NDF: 62.2/66

asym_atr_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 4106.234+/-1.121 χ^2/NDF : 955631.2/15

Left Out: 4516.745+/-0.890 χ^2/NDF : 726643.0/16

Right Out: 3715.202+/-1.026 χ^2/NDF : 1335100.7/18

Left In: 4546.230+/-0.935 χ^2/NDF : 1036286.6/14

Left: 4530.750+/-0.645 χ^2/NDF : 1763451.1/31

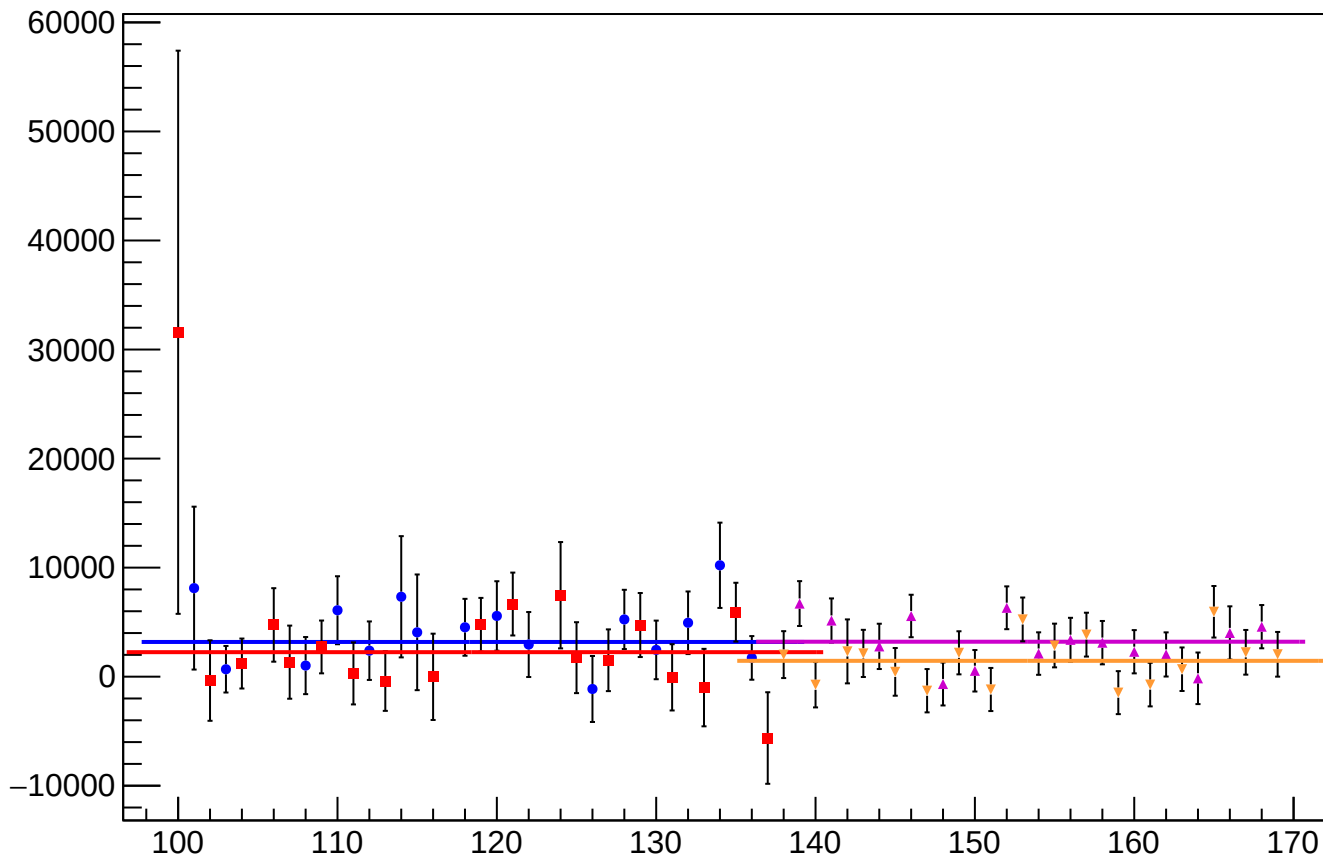
Right: 3893.510+/-0.757 χ^2/NDF : 2356917.1/34

In: 4365.616+/-0.718 χ^2/NDF : 2082725.2/30

Out: 4172.796+/-0.672 χ^2/NDF : 2409907.8/35

All: 4262.846+/-0.491 χ^2/NDF : 4531043.4/66

eigen_cor_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3182.973 $\pm$ 731.133 χ^2 /NDF: 11.7/15

Left Out: 1452.533 $\pm$ 505.747 χ^2 /NDF:18.3/16

Right Out: 2247.193 $\pm$ 710.916 χ^2 /NDF: 16.5/18

Left In: 3204.550 $\pm$ 524.810 χ^2 /NDF:17.2/14

Left: 2296.144 $\pm$ 364.170 χ^2 /NDF: 41.2/31

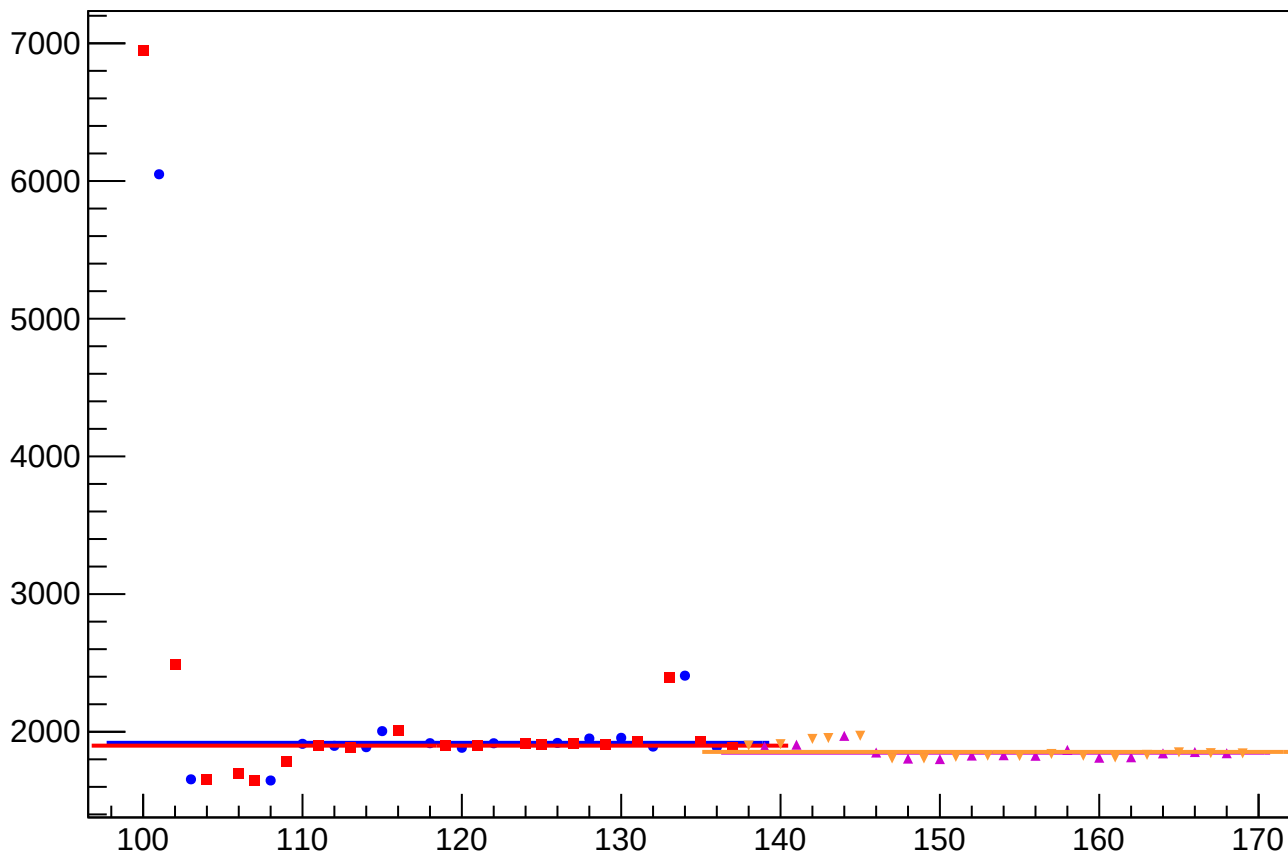
Right: 2701.966 $\pm$ 509.691 χ^2 /NDF: 29.1/34

In: 3197.213 $\pm$ 426.345 χ^2 /NDF:28.8/30

Out: 1719.563 $\pm$ 412.105 χ^2 /NDF:35.6/35

All: 2433.299 $\pm$ 296.308 χ^2 /NDF: 70.7/66

eigen_cor_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1919.827+/-0.517 χ^2/NDF : 697330.6/15

Left Out: 1853.894+/-0.358 χ^2/NDF : 19977.3/16

Right Out: 1899.364+/-0.502 χ^2/NDF : 215654.1/18

Left In: 1848.482+/-0.371 χ^2/NDF : 13726.3/14

Left: 1851.288+/-0.258 χ^2/NDF : 33813.8/31

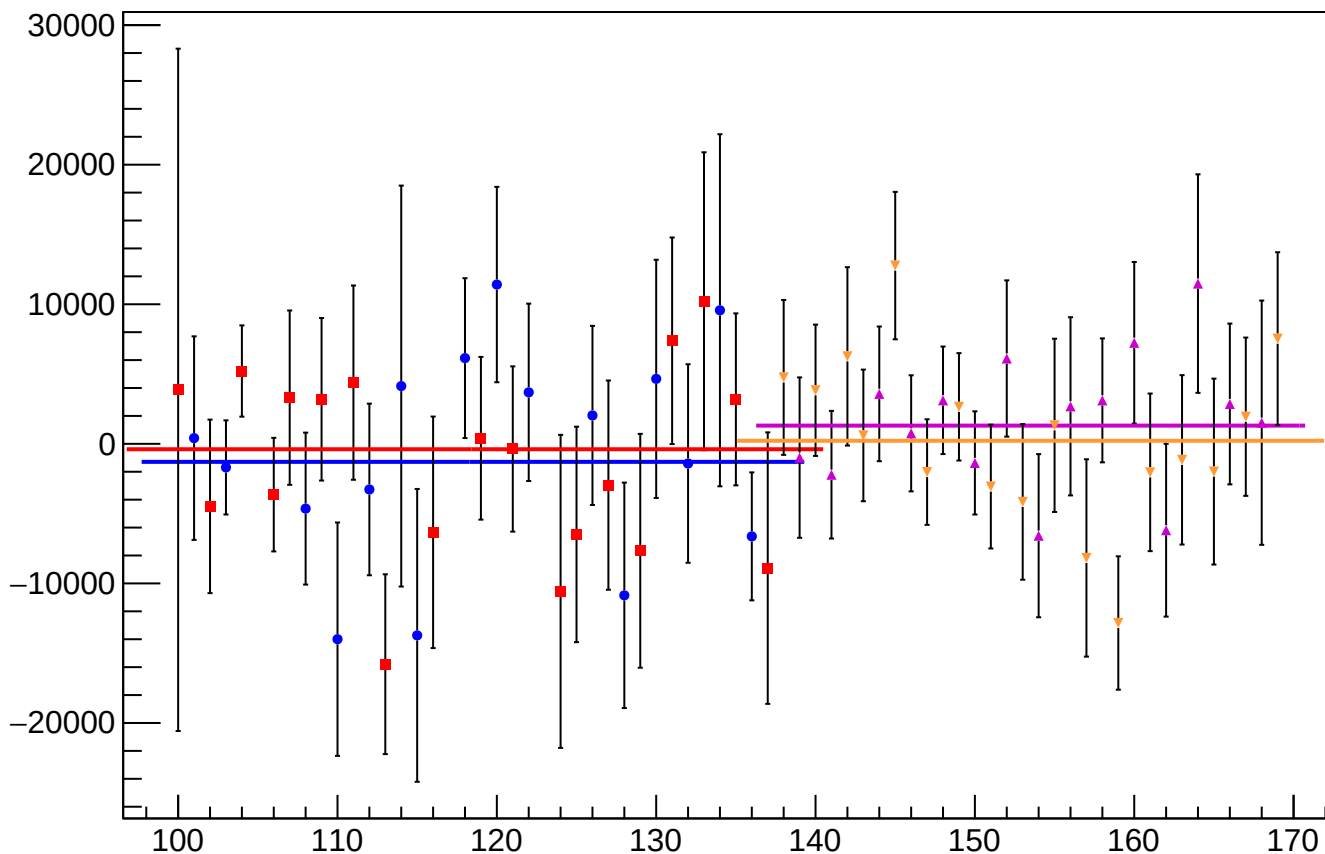
Right: 1909.293+/-0.360 χ^2/NDF : 913791.4/34

In: 1872.742+/-0.301 χ^2/NDF : 723625.5/30

Out: 1869.205+/-0.291 χ^2/NDF : 241075.2/35

All: 1870.913+/-0.209 χ^2/NDF : 964772.0/66

asym_atr_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1290.862 $\pm$ 1585.435 χ^2 /NDF: 14.3/15

Left Out: 221.333 $\pm$ 1258.442 χ^2 /NDF:20.4/16

Right Out: -387.626 $\pm$ 1451.530 χ^2 /NDF: 17.0/18

Left In: 1305.966 $\pm$ 1322.981 χ^2 /NDF:8.8/14

Left: 736.549 $\pm$ 911.816 χ^2 /NDF: 29.6/31

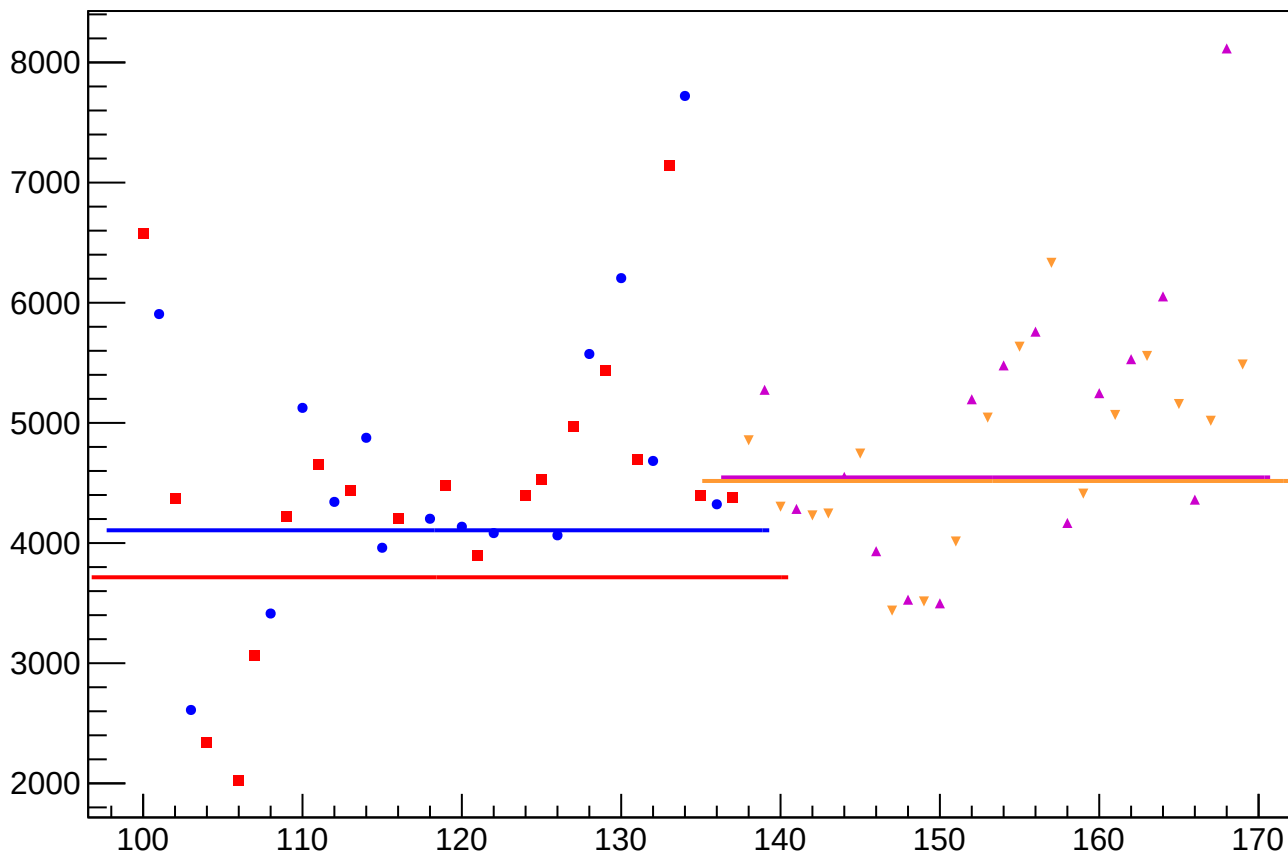
Right: -799.497 $\pm$ 1070.602 χ^2 /NDF: 31.4/34

In: 239.995 $\pm$ 1015.780 χ^2 /NDF:24.6/30

Out: -39.977 $\pm$ 950.845 χ^2 /NDF:37.5/35

All: 90.775 $\pm$ 694.171 χ^2 /NDF: 62.2/66

asym_atr_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 4106.234+/-1.121 χ^2/NDF : 955631.2/15

Left Out: 4516.745+/-0.890 χ^2/NDF : 726643.0/16

Right Out: 3715.202+/-1.026 χ^2/NDF : 1335100.7/18

Left In: 4546.230+/-0.935 χ^2/NDF : 1036286.6/14

Left: 4530.750+/-0.645 χ^2/NDF : 1763451.1/31

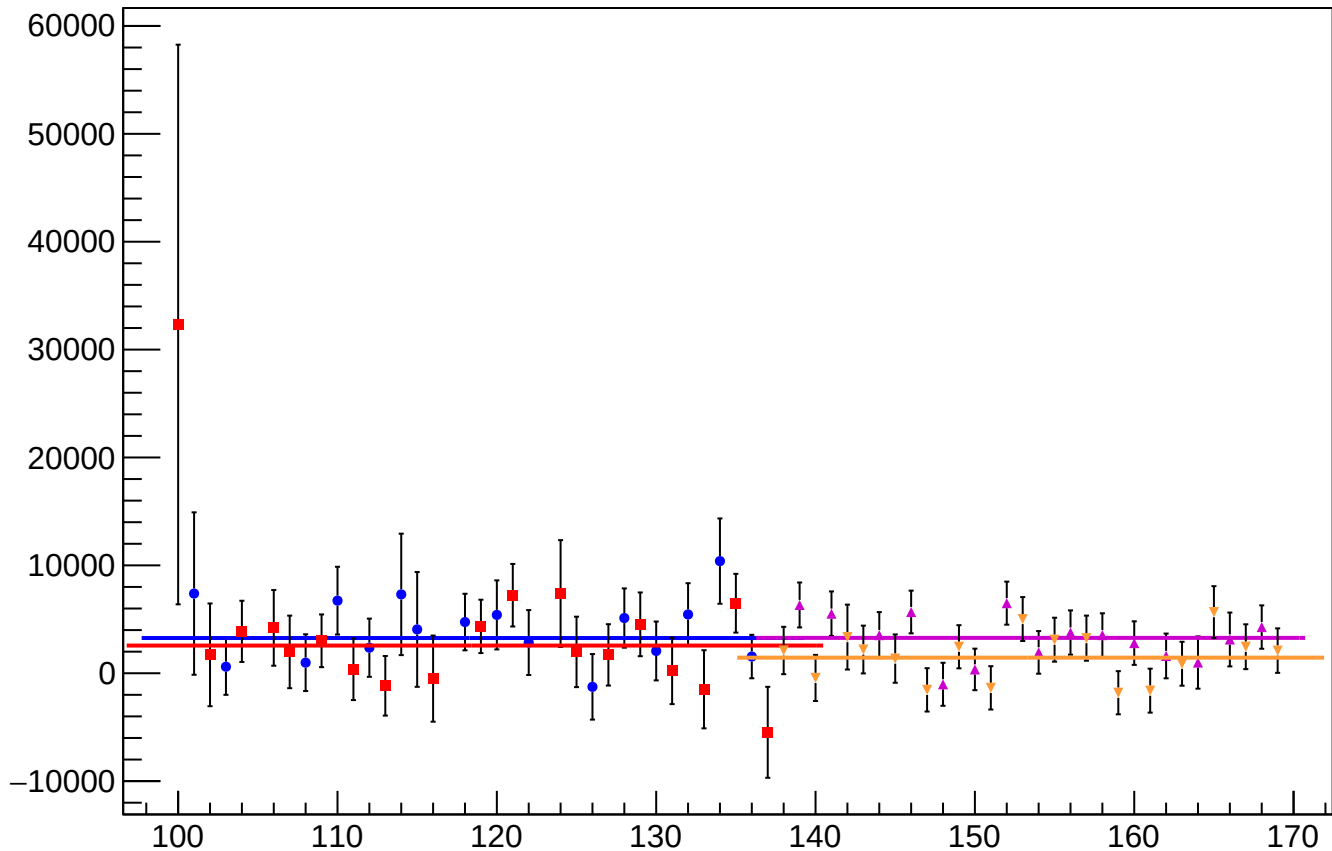
Right: 3893.510+/-0.757 χ^2/NDF : 2356917.1/34

In: 4365.616+/-0.718 χ^2/NDF : 2082725.2/30

Out: 4172.796+/-0.672 χ^2/NDF : 2409907.8/35

All: 4262.846+/-0.491 χ^2/NDF : 4531043.4/66

dit_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3264.639 ± 750.865 χ^2/NDF : 12.2/15

Left Out: 1444.217 ± 515.110 χ^2/NDF : 18.7/16

Right Out: 2566.683 ± 734.876 χ^2/NDF : 17.0/18

Left In: 3278.755 ± 533.833 χ^2/NDF : 16.8/14

Left: 2328.750 ± 370.680 χ^2/NDF : 41.6/31

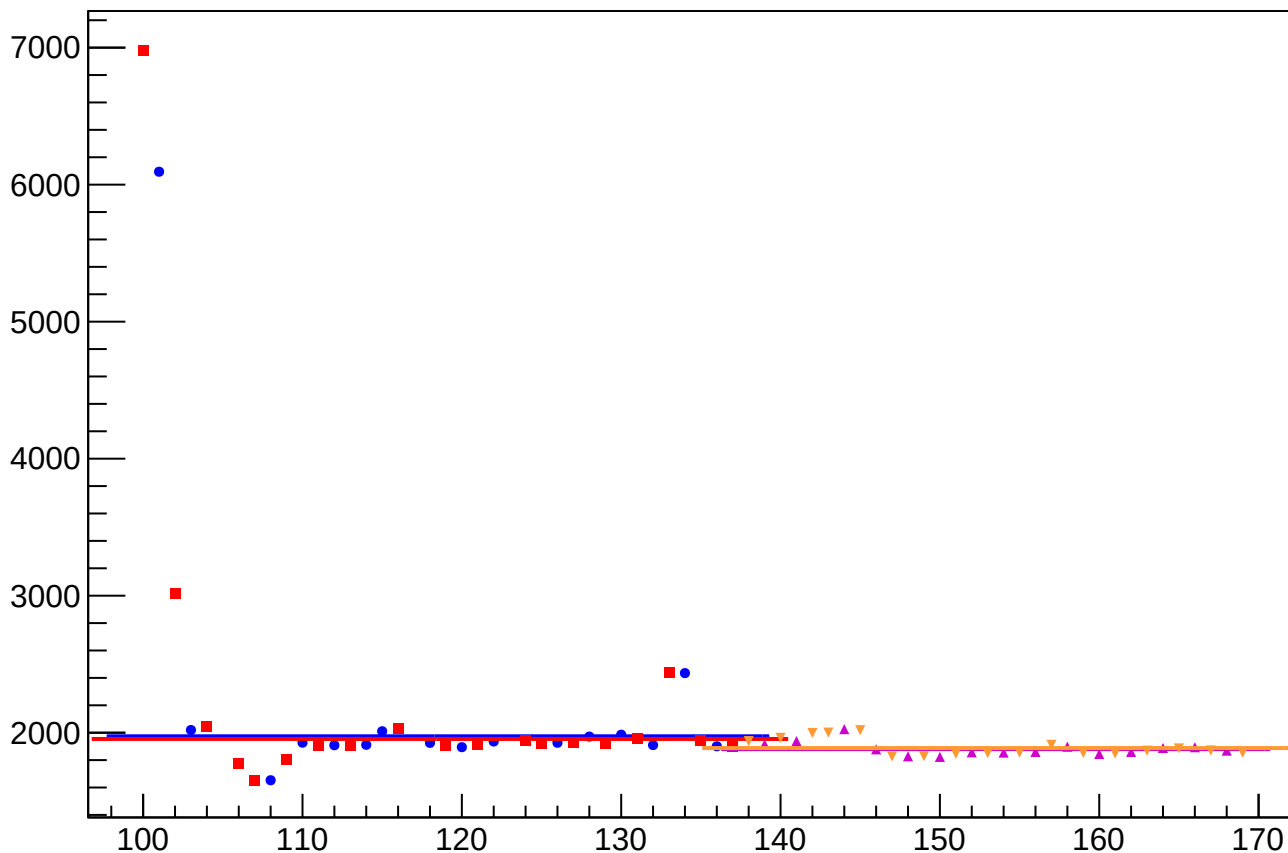
Right: 2908.151 ± 525.197 χ^2/NDF : 29.6/34

In: 3274.016 ± 435.082 χ^2/NDF : 28.9/30

Out: 1814.021 ± 421.806 χ^2/NDF : 37.3/35

All: 2521.405 ± 302.847 χ^2/NDF : 72.0/66

dit_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1973.748 ± 0.531 $\chi^2/\text{NDF}: 665124.2/15$

Left Out: 1887.905 ± 0.364 $\chi^2/\text{NDF}: 26381.3/16$

Right Out: 1954.339 ± 0.519 $\chi^2/\text{NDF}: 246211.3/18$

Left In: 1880.095 ± 0.377 $\chi^2/\text{NDF}: 16594.9/14$

Left: 1884.139 ± 0.262 $\chi^2/\text{NDF}: 43197.9/31$

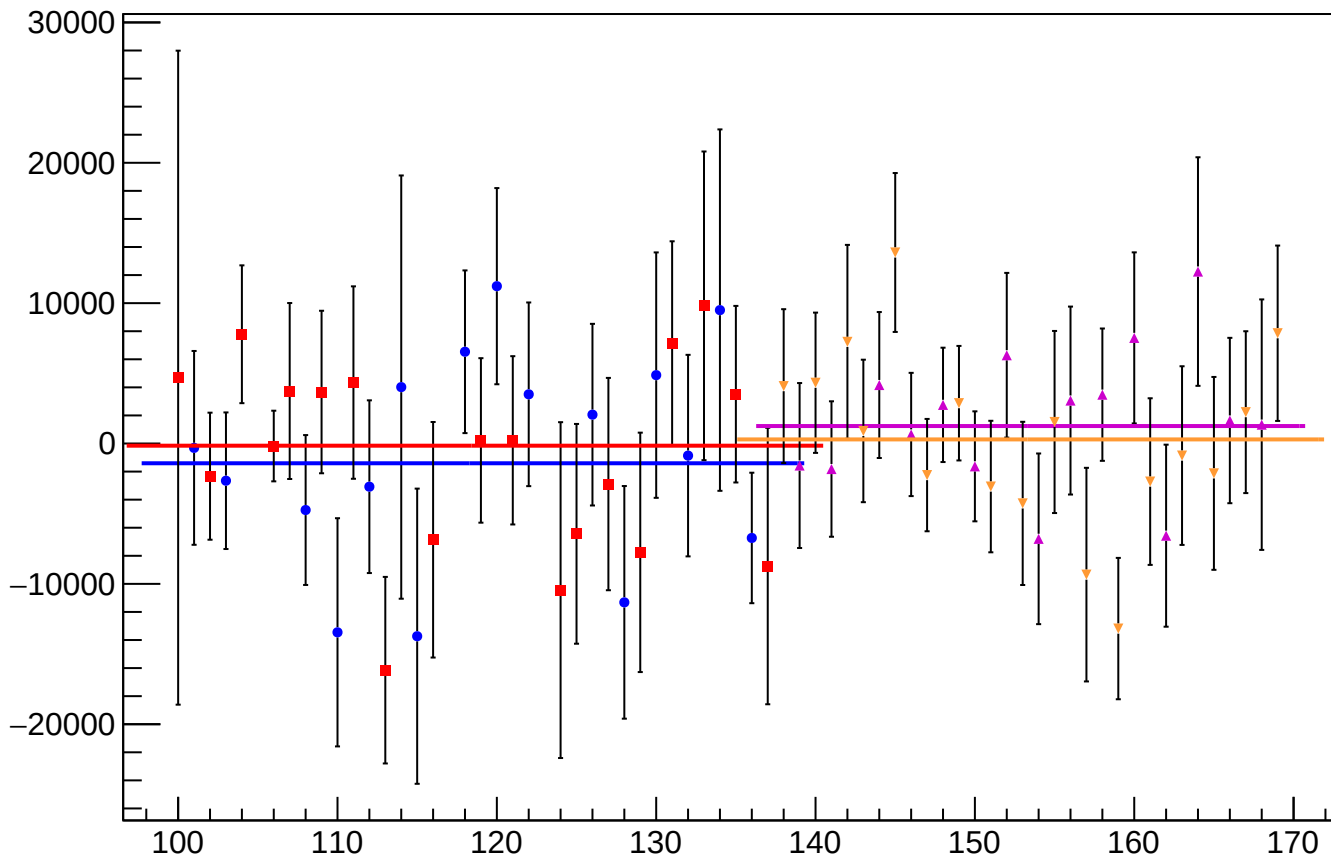
Right: 1963.826 ± 0.371 $\chi^2/\text{NDF}: 912018.7/34$

In: 1911.539 ± 0.308 $\chi^2/\text{NDF}: 702386.5/30$

Out: 1909.818 ± 0.298 $\chi^2/\text{NDF}: 283565.4/35$

All: 1910.652 ± 0.214 $\chi^2/\text{NDF}: 985968.0/66$

asym_atr_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1407.382+/-1689.989 χ^2/NDF : 14.2/15

Left Out: 291.664+/-1321.767 χ^2/NDF : 20.4/16

Right Out: -155.271+/-1363.642 χ^2/NDF : 15.8/18

Left In: 1244.726+/-1391.075 χ^2/NDF : 8.8/14

Left: 743.862+/-958.196 χ^2/NDF : 29.4/31

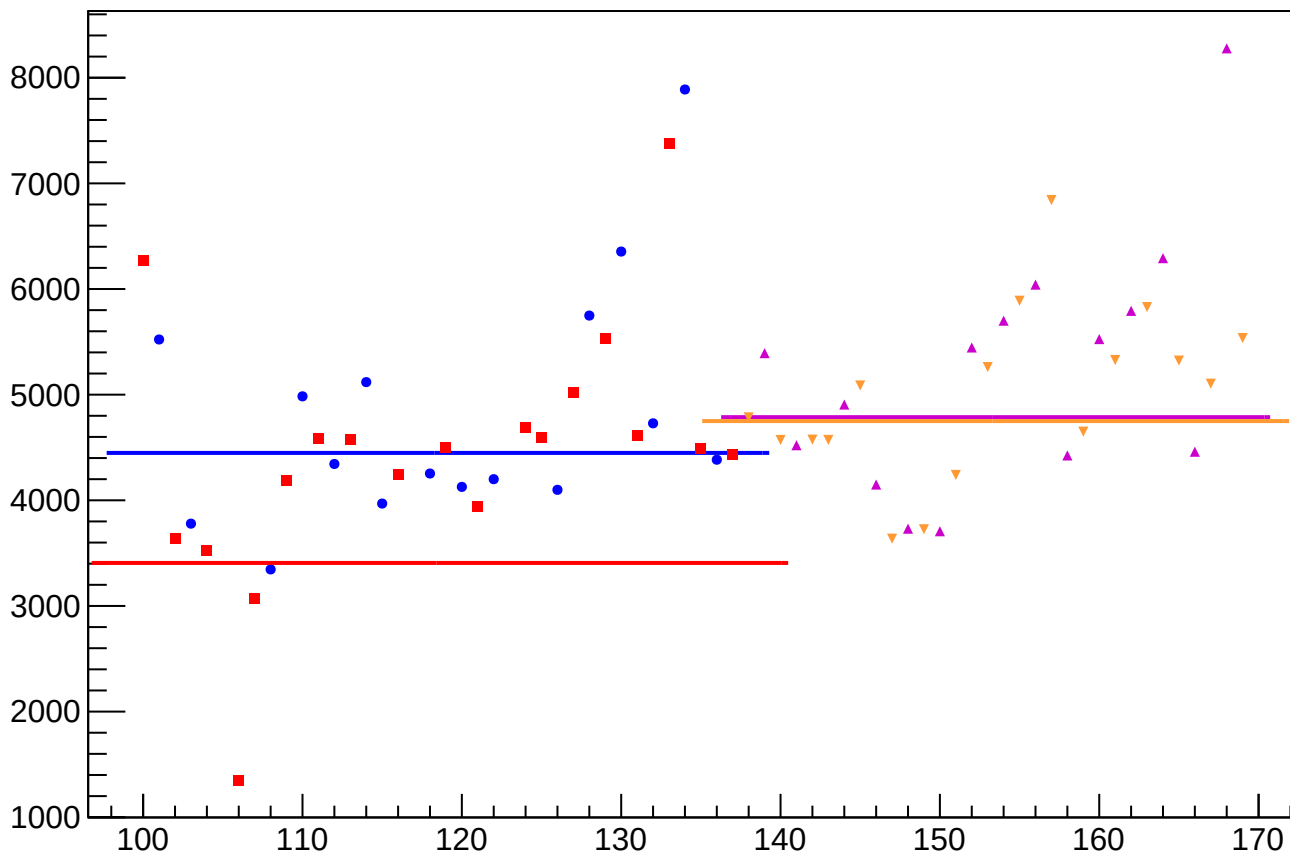
Right: -649.023+/-1061.247 χ^2/NDF : 30.4/34

In: 173.571+/-1074.025 χ^2/NDF : 24.5/30

Out: 75.164+/-949.089 χ^2/NDF : 36.3/35

All: 118.313+/-711.196 χ^2/NDF : 60.8/66

asym_atr_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 4448.711+/-1.195 χ^2/NDF : 494613.5/15

Left Out: 4749.944+/-0.935 χ^2/NDF : 676585.3/16

Right Out: 3407.128+/-0.964 χ^2/NDF : 2326060.4/18

Left In: 4787.061+/-0.984 χ^2/NDF : 967480.7/14

Left: 4767.555+/-0.678 χ^2/NDF : 1644814.3/31

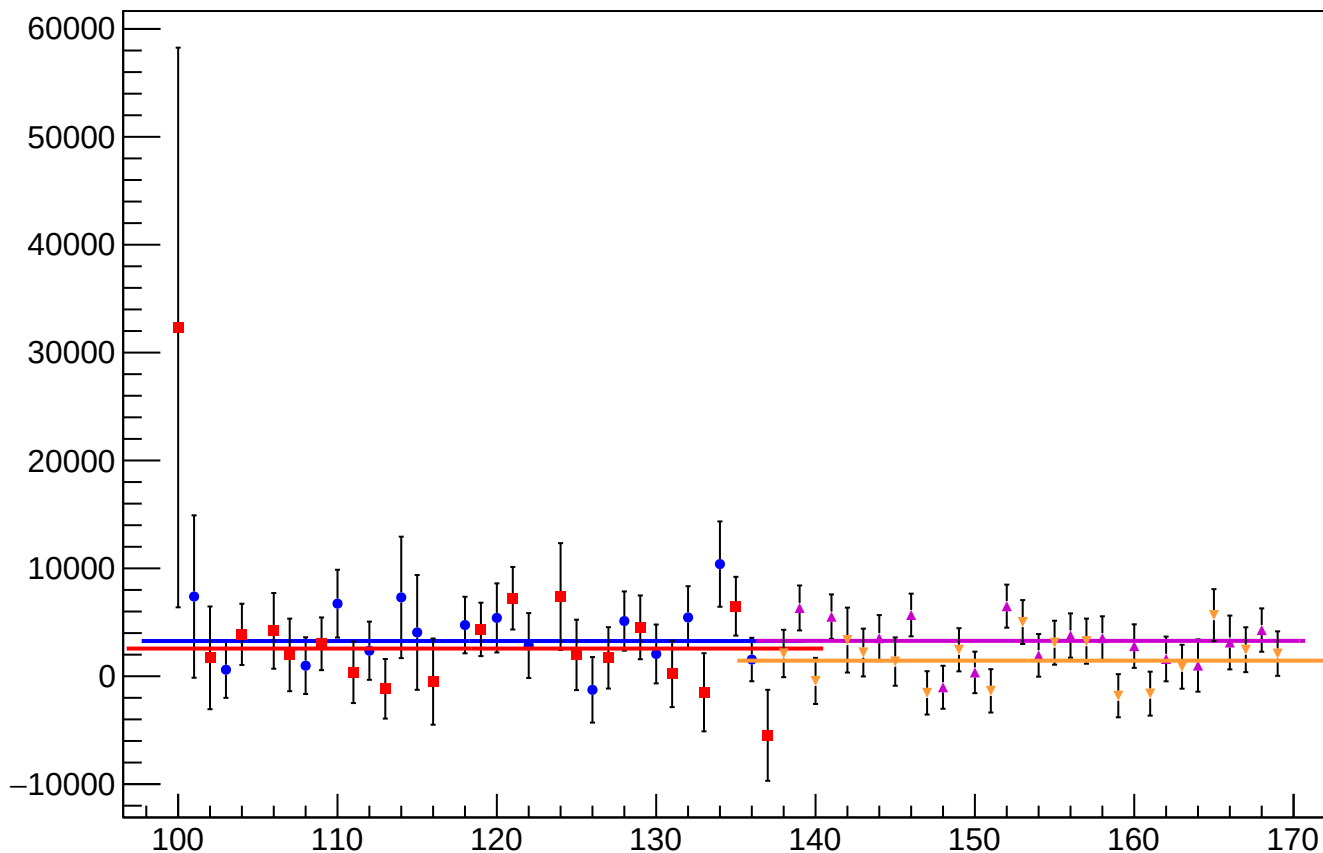
Right: 3817.861+/-0.750 χ^2/NDF : 3280806.0/34

In: 4650.405+/-0.759 χ^2/NDF : 1509882.6/30

Out: 4099.470+/-0.671 χ^2/NDF : 4002568.0/35

All: 4341.044+/-0.503 χ^2/NDF : 5807957.4/66

eigen_dit_asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 3264.644+/-750.865 χ^2/NDF : 12.2/15

Left Out: 1444.209+/-515.110 χ^2/NDF : 18.7/16

Right Out: 2566.689+/-734.875 χ^2/NDF : 17.0/18

Left In: 3278.758+/-533.833 χ^2/NDF : 16.8/14

Left: 2328.748+/-370.680 χ^2/NDF : 41.6/31

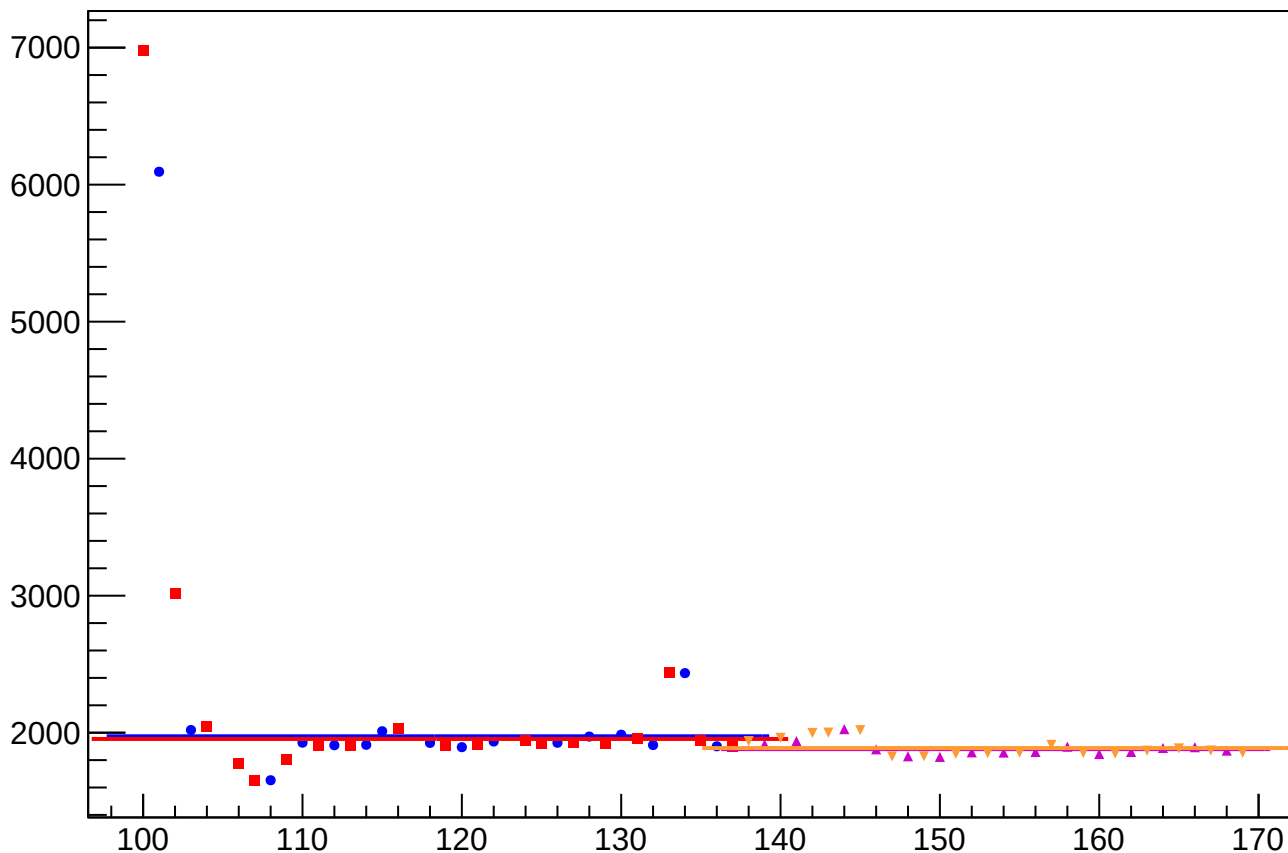
Right: 2908.156+/-525.197 χ^2/NDF : 29.6/34

In: 3274.019+/-435.082 χ^2/NDF : 28.9/30

Out: 1814.018+/-421.806 χ^2/NDF : 37.3/35

All: 2521.405+/-302.847 χ^2/NDF : 72.0/66

eigen_dit_asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 1973.748+/-0.531 χ^2/NDF : 665124.2/15

Left Out: 1887.906+/-0.364 χ^2/NDF : 26381.4/16

Right Out: 1954.339+/-0.519 χ^2/NDF : 246210.8/18

Left In: 1880.095+/-0.377 χ^2/NDF : 16594.8/14

Left: 1884.140+/-0.262 χ^2/NDF : 43197.9/31

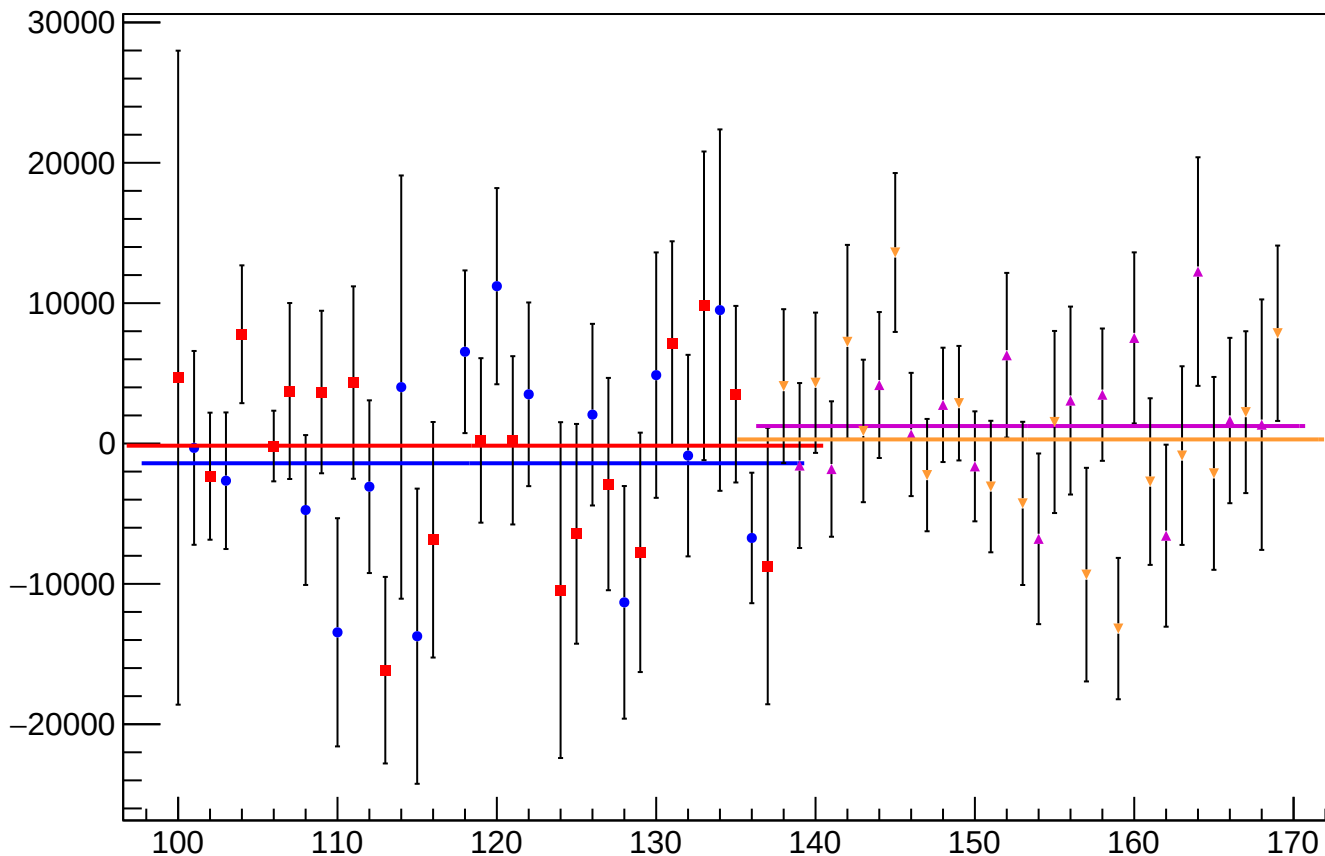
Right: 1963.826+/-0.371 χ^2/NDF : 912018.2/34

In: 1911.539+/-0.308 χ^2/NDF : 702385.9/30

Out: 1909.818+/-0.298 χ^2/NDF : 283564.6/35

All: 1910.652+/-0.214 χ^2/NDF : 985966.6/66

asym_atr_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1407.363+/-1689.986 χ^2/NDF : 14.2/15

Left Out: 291.660+/-1321.769 χ^2/NDF : 20.4/16

Right Out: -155.272+/-1363.639 χ^2/NDF : 15.8/18

Left In: 1244.724+/-1391.077 χ^2/NDF : 8.8/14

Left: 743.859+/-958.197 χ^2/NDF : 29.4/31

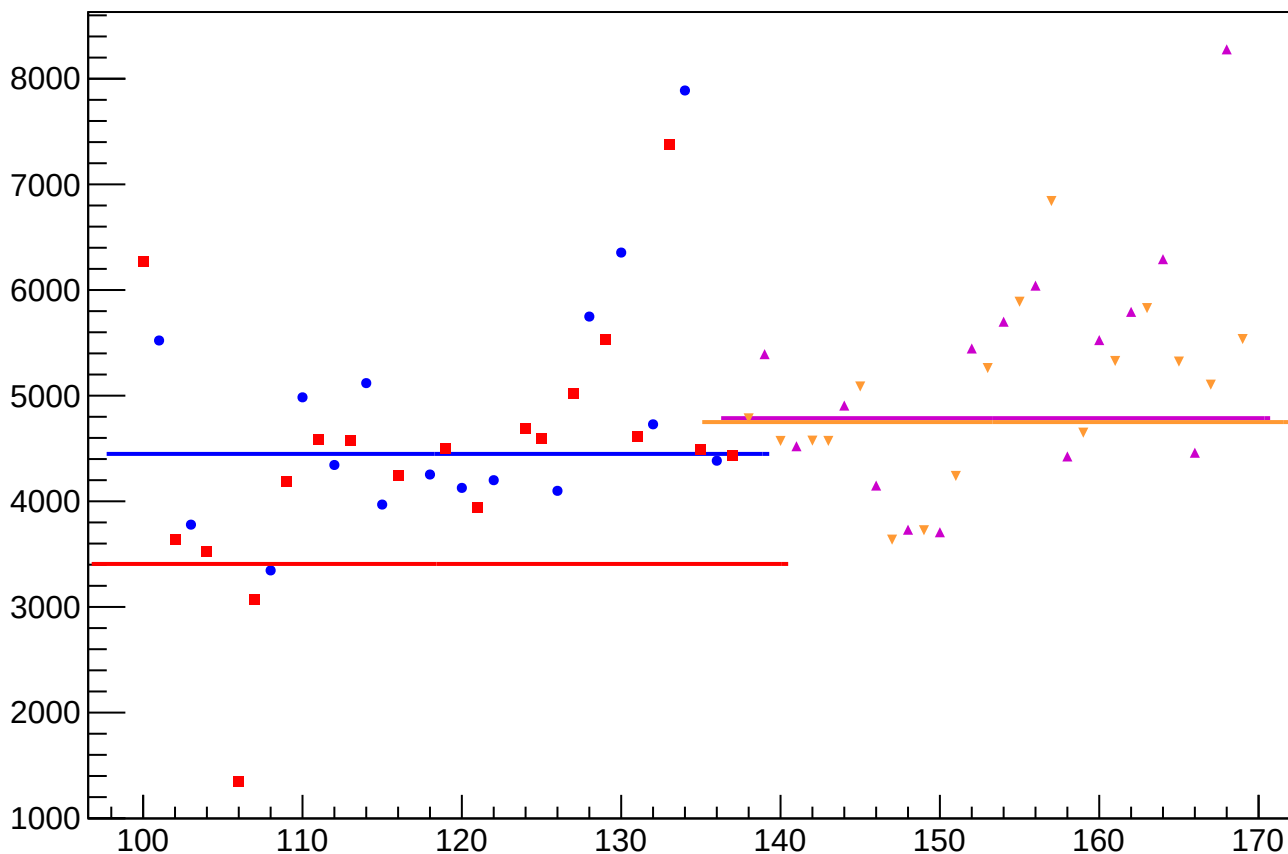
Right: -649.016+/-1061.245 χ^2/NDF : 30.4/34

In: 173.573+/-1074.025 χ^2/NDF : 24.5/30

Out: 75.161+/-949.089 χ^2/NDF : 36.3/35

All: 118.313+/-711.196 χ^2/NDF : 60.8/66

asym_atr_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 4448.704+/-1.195 χ^2/NDF : 494610.6/15

Left Out: 4749.951+/-0.935 χ^2/NDF : 676585.3/16

Right Out: 3407.120+/-0.964 χ^2/NDF : 2326064.2/18

Left In: 4787.069+/-0.984 χ^2/NDF : 967480.3/14

Left: 4767.562+/-0.678 χ^2/NDF : 1644813.9/31

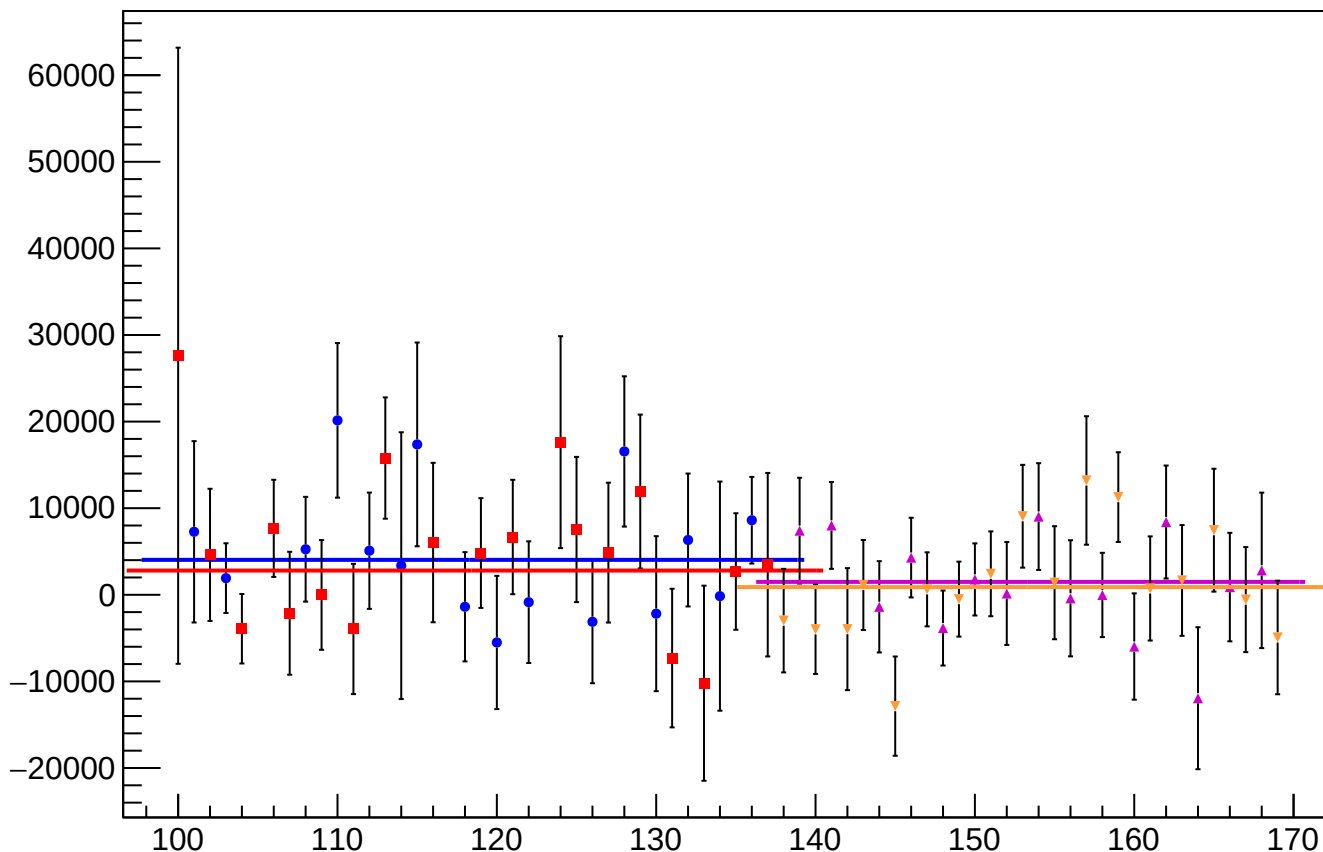
Right: 3817.853+/-0.750 χ^2/NDF : 3280809.4/34

In: 4650.406+/-0.759 χ^2/NDF : 1509883.6/30

Out: 4099.467+/-0.671 χ^2/NDF : 4002595.8/35

All: 4341.043+/-0.503 χ^2/NDF : 5807990.2/66

asym_atr_avg_mean vs Slug, Sign Corrected



Right In: 4034.572 $\pm$ 1782.030 χ^2 /NDF: 12.3/15

Left Out: 892.004 $\pm$ 1370.027 χ^2 /NDF: 18.2/16

Right Out: 2800.547 $\pm$ 1671.877 χ^2 /NDF: 15.4/18

Left In: 1489.450 $\pm$ 1439.102 χ^2 /NDF: 11.9/14

Left: 1176.045 $\pm$ 992.276 χ^2 /NDF: 30.1/31

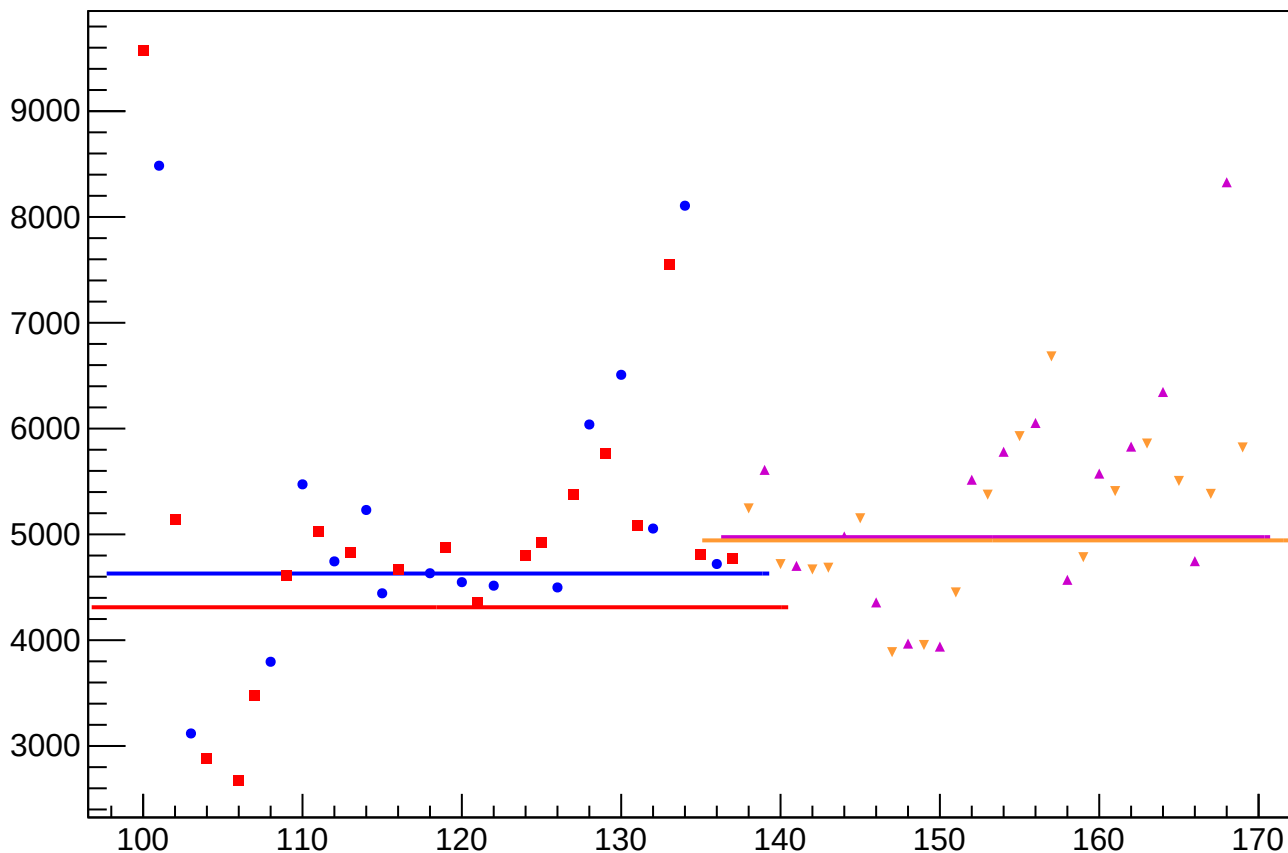
Right: 3378.243 $\pm$ 1219.278 χ^2 /NDF: 28.0/34

In: 2494.088 $\pm$ 1119.607 χ^2 /NDF: 25.4/30

Out: 1658.736 $\pm$ 1059.681 χ^2 /NDF: 34.4/35

All: 2053.459 $\pm$ 769.621 χ^2 /NDF: 60.1/66

asym_atr_avg_rms vs Slug, Sign Corrected



Right In: 4629.967+/-1.260 χ^2/NDF : 900246.3/15

Left Out: 4943.278+/-0.969 χ^2/NDF : 546040.8/16

Right Out: 4311.218+/-1.172 χ^2/NDF : 904737.2/18

Left In: 4973.801+/-1.018 χ^2/NDF : 803138.2/14

Left: 4957.790+/-0.702 χ^2/NDF : 1349650.9/31

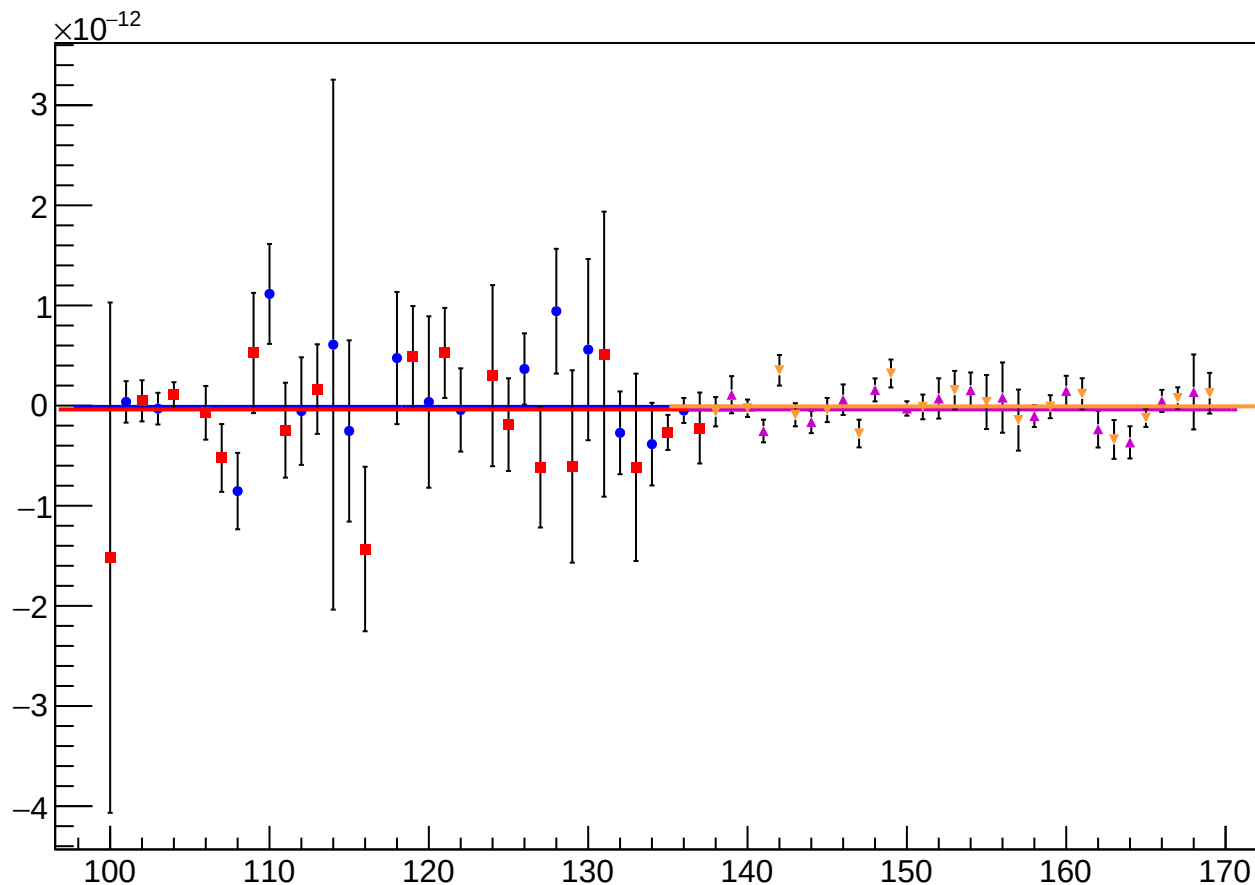
Right: 4459.059+/-0.858 χ^2/NDF : 1839292.8/34

In: 4838.079+/-0.792 χ^2/NDF : 1748450.2/30

Out: 4686.712+/-0.747 χ^2/NDF : 1623572.6/35

All: 4757.972+/-0.543 χ^2/NDF : 3391369.4/66

asym_atr_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 15.9/15

Left Out: -0.000+/-0.000 χ^2 /NDF:22.8/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 15.0/18

Left In: -0.000+/-0.000 χ^2 /NDF:18.4/14

Left: -0.000+/-0.000 χ^2 /NDF: 41.7/31

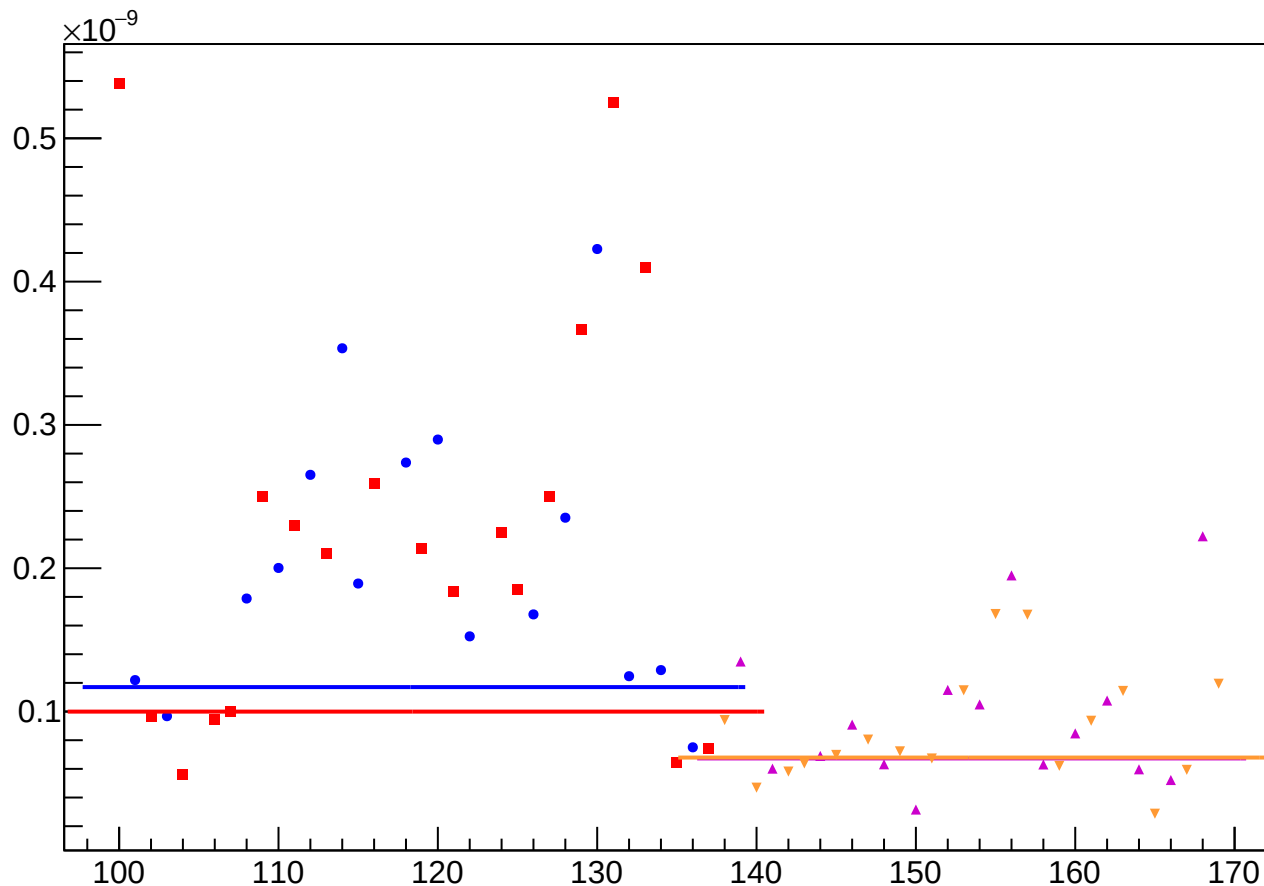
Right: -0.000+/-0.000 χ^2 /NDF: 30.9/34

In: -0.000+/-0.000 χ^2 /NDF:34.4/30

Out: -0.000+/-0.000 χ^2 /NDF:37.9/35

All: -0.000+/-0.000 χ^2 /NDF: 72.6/66

asym_atr_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1100462.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :1505256.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1844111.3/18

Left In: 0.000+/-0.000 χ^2/NDF :1797323.3/14

Left: 0.000+/-0.000 χ^2/NDF : 3302925.8/31

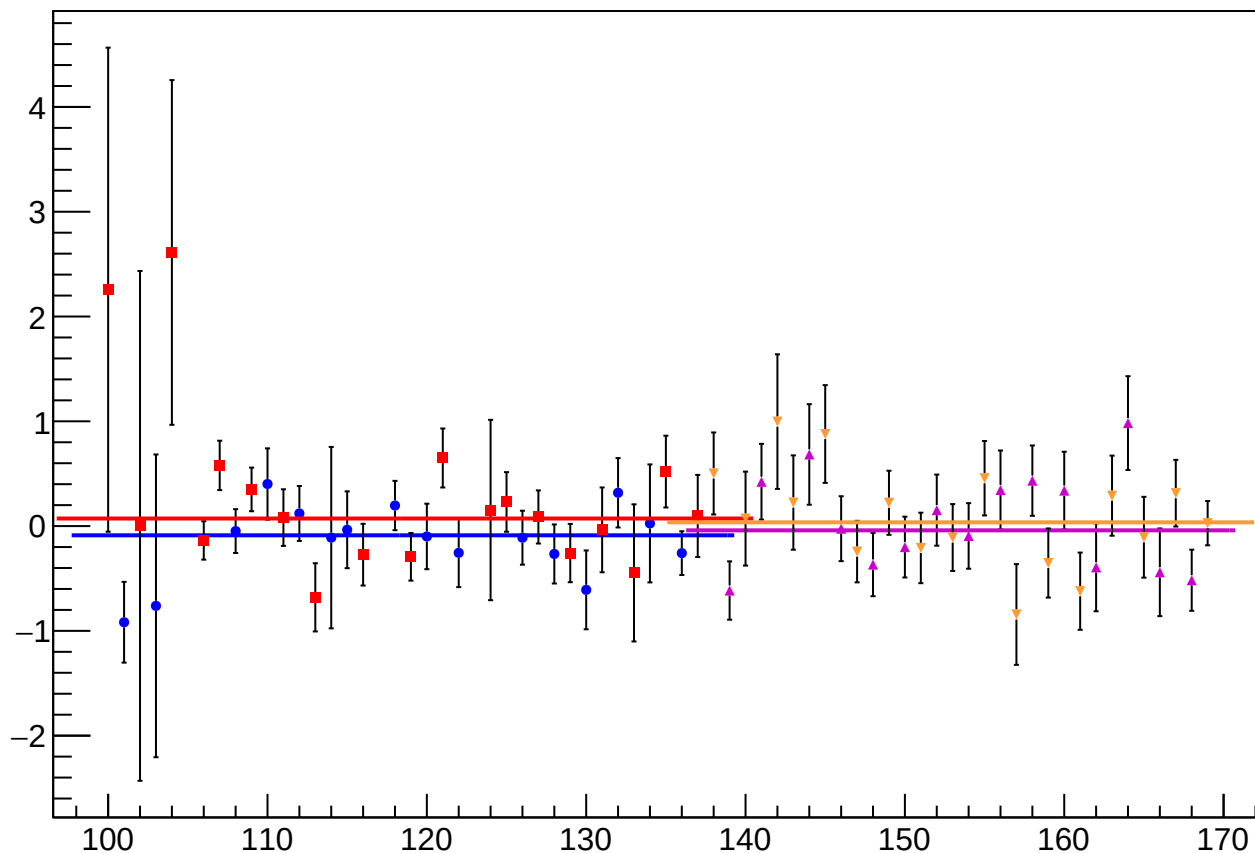
Right: 0.000+/-0.000 χ^2/NDF : 2997940.6/34

In: 0.000+/-0.000 χ^2/NDF :3619755.3/30

Out: 0.000+/-0.000 χ^2/NDF :3674644.9/35

All: 0.000+/-0.000 χ^2/NDF : 7302024.0/66

asym_atr_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.088 ± 0.077 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 0.036 ± 0.085 $\chi^2/\text{NDF}: 19.8/16$

Right Out: 0.072 ± 0.070 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.041 ± 0.088 $\chi^2/\text{NDF}: 23.6/14$

Left: -0.001 ± 0.061 $\chi^2/\text{NDF}: 43.8/31$

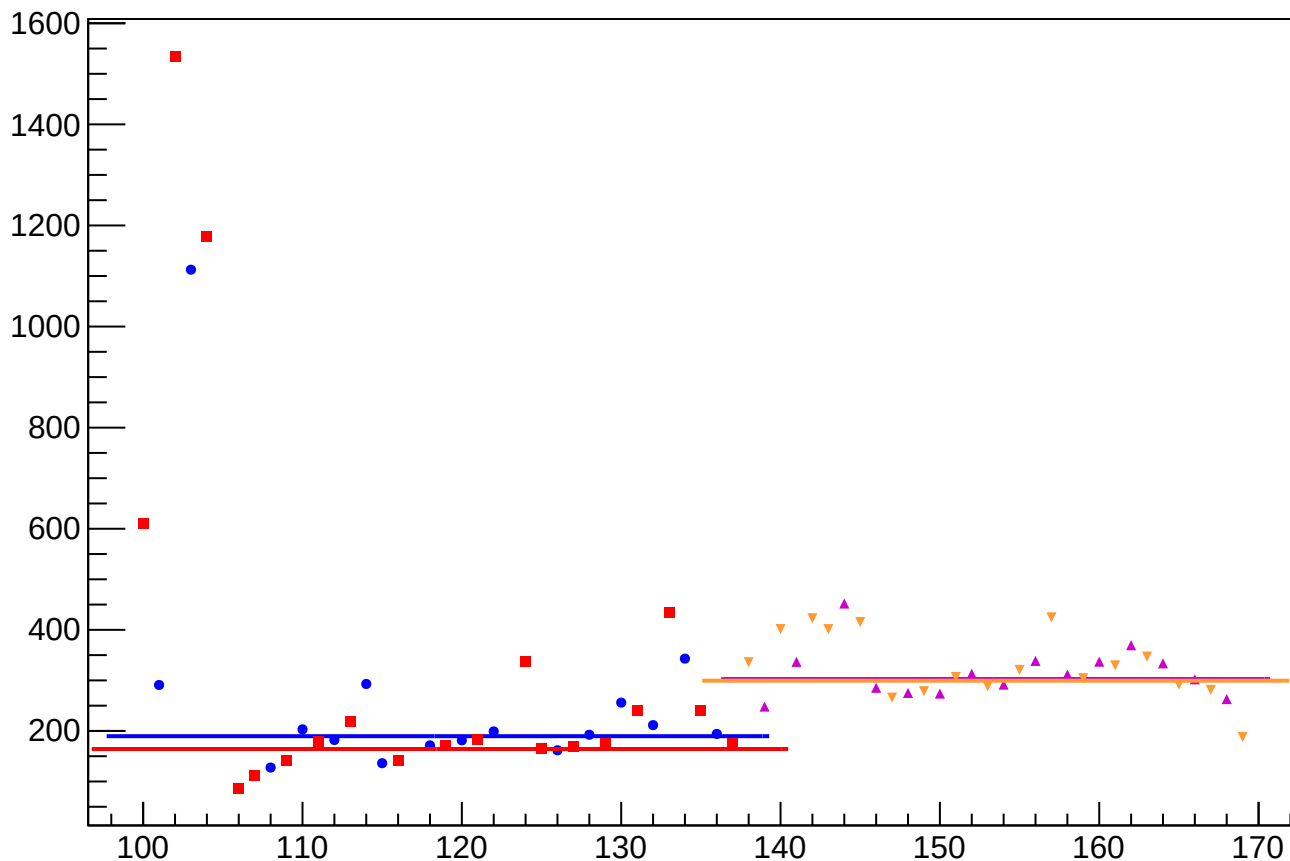
Right: -0.000 ± 0.052 $\chi^2/\text{NDF}: 44.9/34$

In: -0.068 ± 0.058 $\chi^2/\text{NDF}: 37.6/30$

Out: 0.058 ± 0.054 $\chi^2/\text{NDF}: 48.5/35$

All: -0.001 ± 0.039 $\chi^2/\text{NDF}: 88.7/66$

asym_atr_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628+/-0.054 χ^2/NDF : 1465476.9/15

Left Out: 299.402+/-0.060 χ^2/NDF :1213125.1/16

Right Out: 164.287+/-0.050 χ^2/NDF : 2643490.2/18

Left In: 302.776+/-0.062 χ^2/NDF :469205.7/14

Left: 301.021+/-0.043 χ^2/NDF : 1683851.2/31

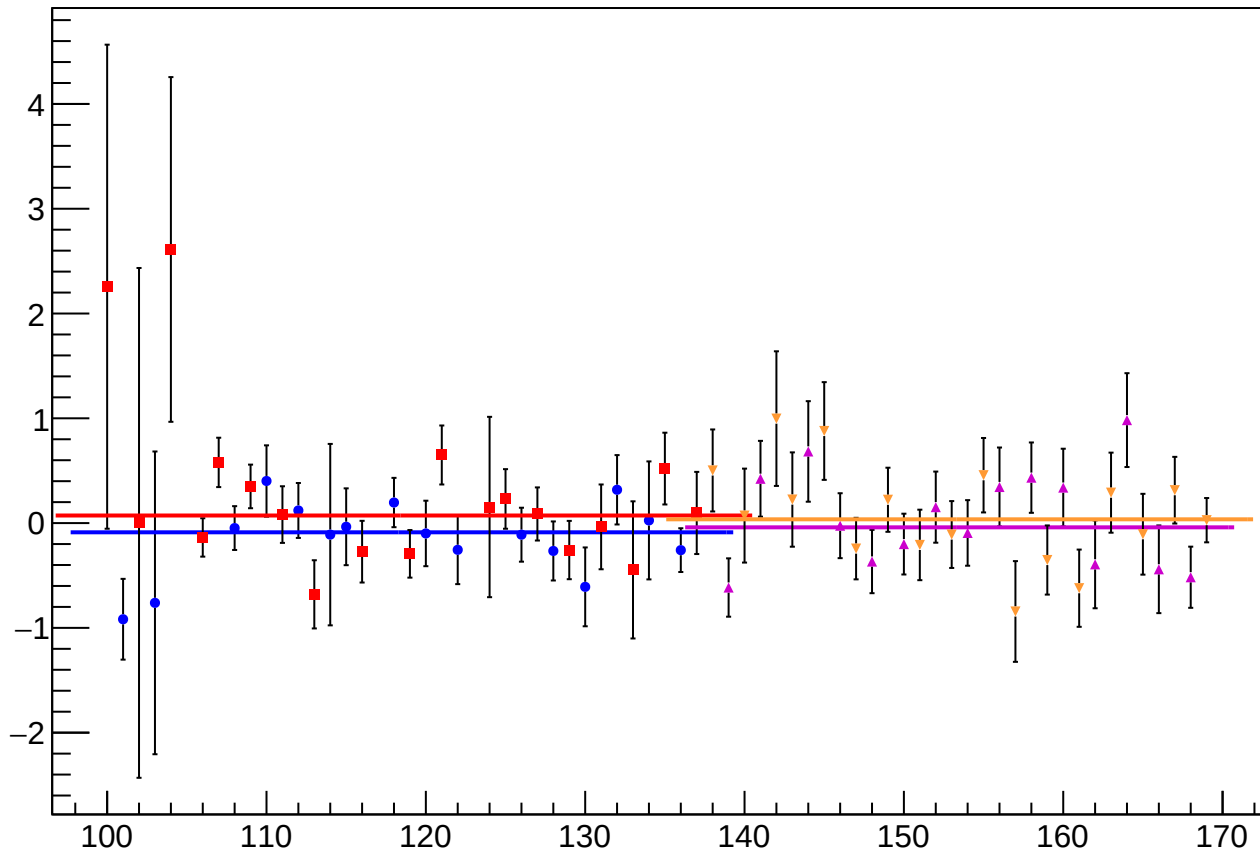
Right: 175.794+/-0.037 χ^2/NDF : 4227942.3/34

In: 238.358+/-0.041 χ^2/NDF :3805807.4/30

Out: 219.054+/-0.038 χ^2/NDF :6875744.4/35

All: 228.028+/-0.028 χ^2/NDF : 10800415.8/66

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.088 ± 0.077 χ^2/NDF : 13.9/15

Left Out: 0.036 ± 0.085 χ^2/NDF : 19.8/16

Right Out: 0.072 ± 0.070 χ^2/NDF : 28.7/18

Left In: -0.041 ± 0.088 χ^2/NDF : 23.6/14

Left: -0.001 ± 0.061 χ^2/NDF : 43.8/31

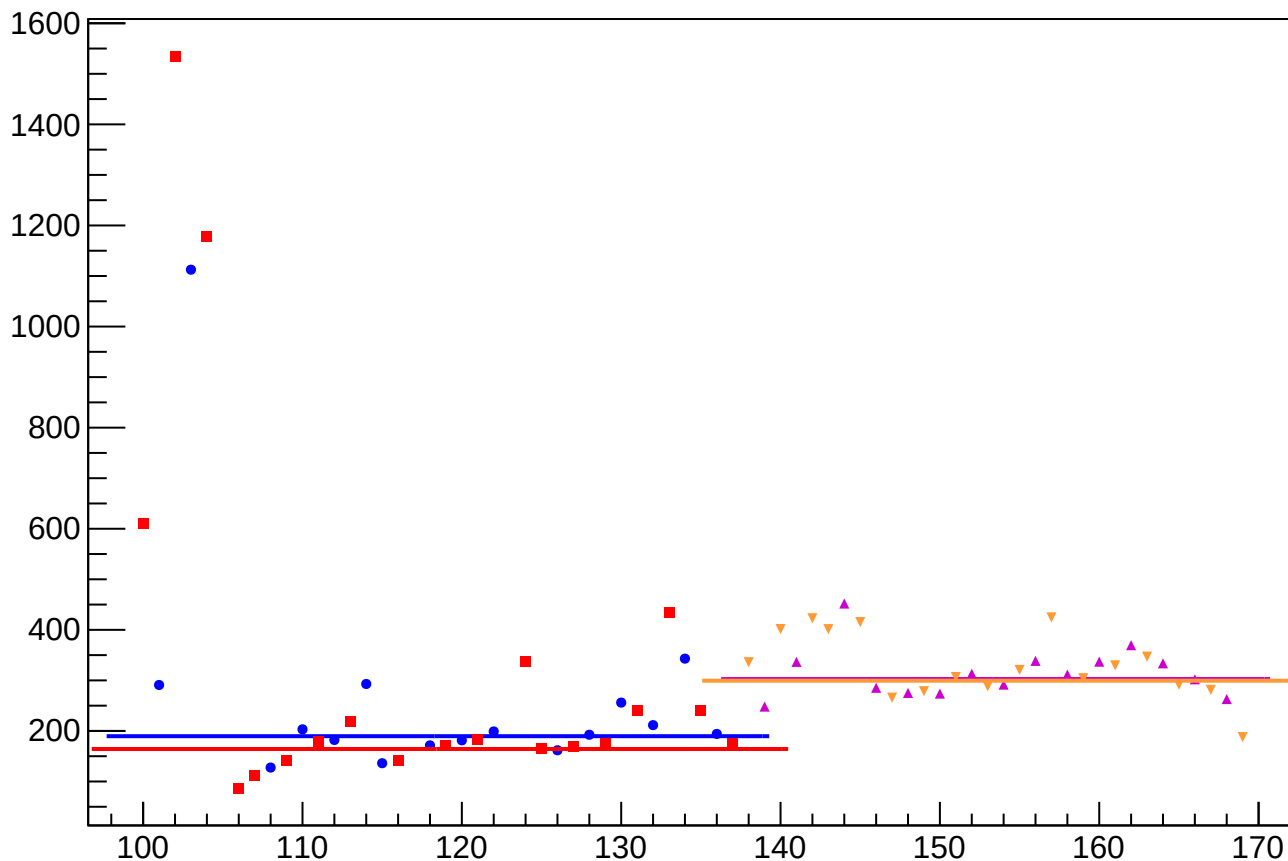
Right: -0.000 ± 0.052 χ^2/NDF : 44.9/34

In: -0.068 ± 0.058 χ^2/NDF : 37.6/30

Out: 0.058 ± 0.054 χ^2/NDF : 48.5/35

All: -0.001 ± 0.039 χ^2/NDF : 88.7/66

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628+/-0.054 χ^2/NDF : 1465476.9/15

Left Out: 299.402+/-0.060 χ^2/NDF : 1213125.1/16

Right Out: 164.287+/-0.050 χ^2/NDF : 2643490.2/18

Left In: 302.776+/-0.062 χ^2/NDF : 469205.7/14

Left: 301.021+/-0.043 χ^2/NDF : 1683851.2/31

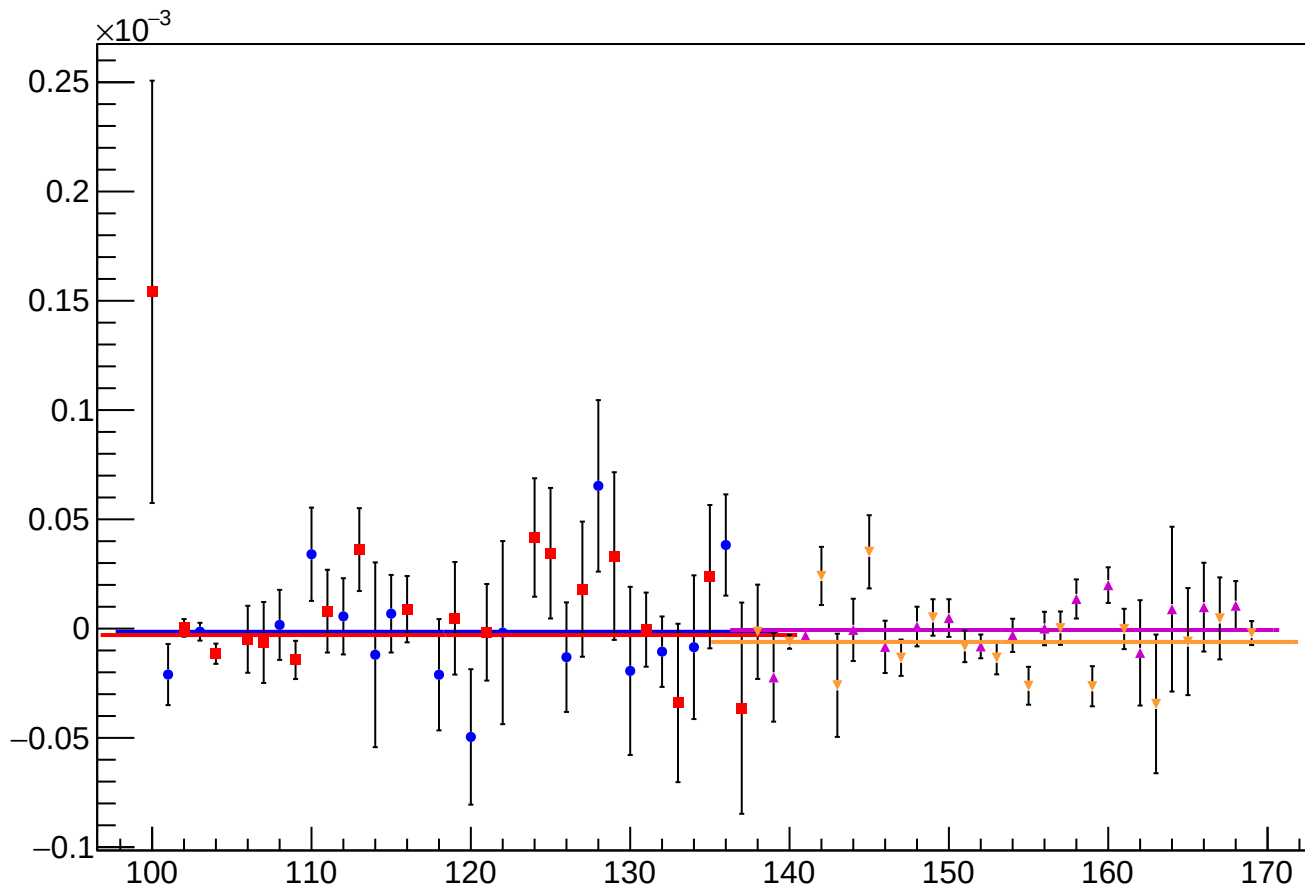
Right: 175.794+/-0.037 χ^2/NDF : 4227942.3/34

In: 238.358+/-0.041 χ^2/NDF : 3805807.4/30

Out: 219.054+/-0.038 χ^2/NDF : 6875744.4/35

All: 228.028+/-0.028 χ^2/NDF : 10800415.8/66

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 14.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 28.5/16

Right Out: -0.000+/-0.000 χ^2/NDF : 21.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 15.1/14

Left: -0.000+/-0.000 χ^2/NDF : 47.6/31

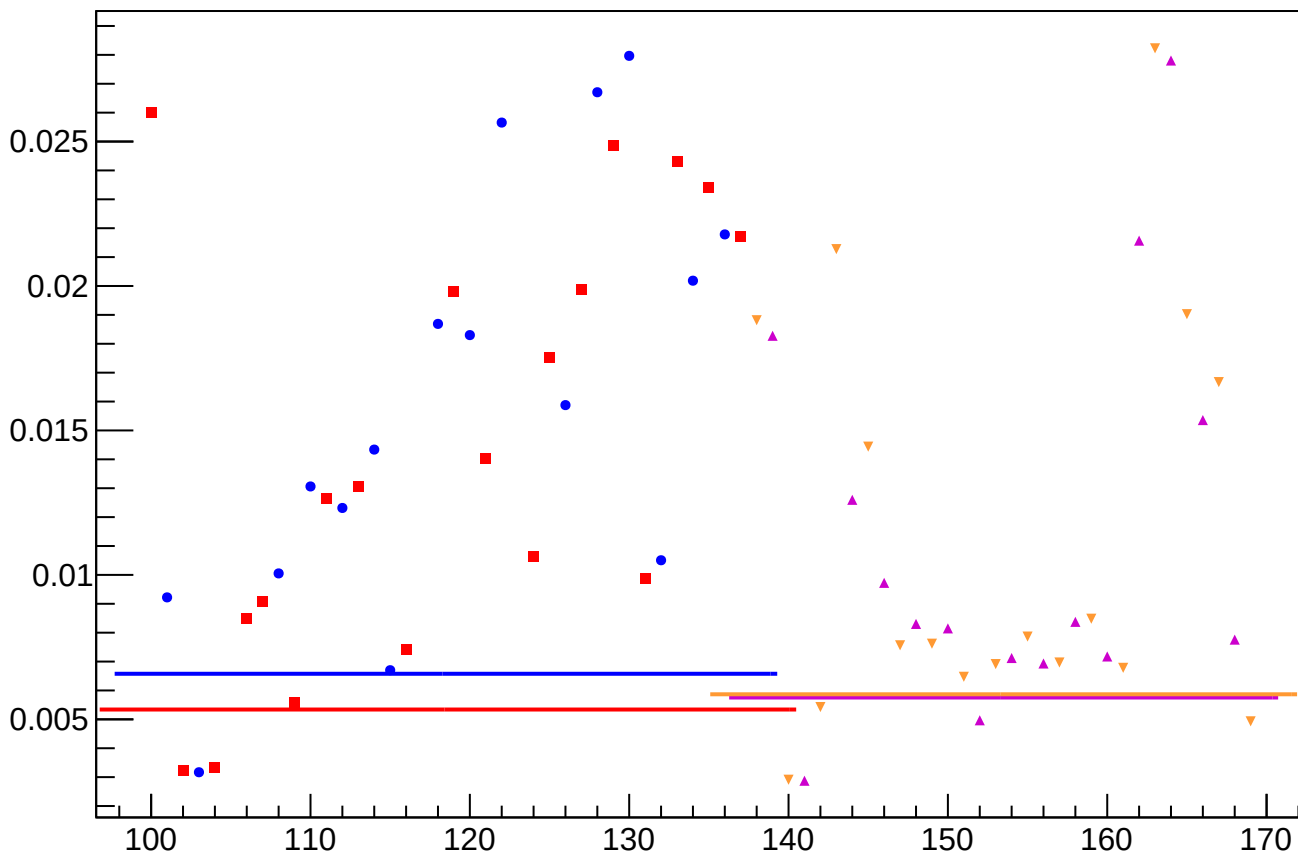
Right: -0.000+/-0.000 χ^2/NDF : 36.3/34

In: -0.000+/-0.000 χ^2/NDF : 30.0/30

Out: -0.000+/-0.000 χ^2/NDF : 50.8/35

All: -0.000+/-0.000 χ^2/NDF : 84.0/66

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 5928012.0/15

Left Out: 0.006+/-0.000 χ^2/NDF : 6677717.4/16

Right Out: 0.005+/-0.000 χ^2/NDF : 5685915.4/18

Left In: 0.006+/-0.000 χ^2/NDF : 5970895.4/14

Left: 0.006+/-0.000 χ^2/NDF : 12651884.6/31

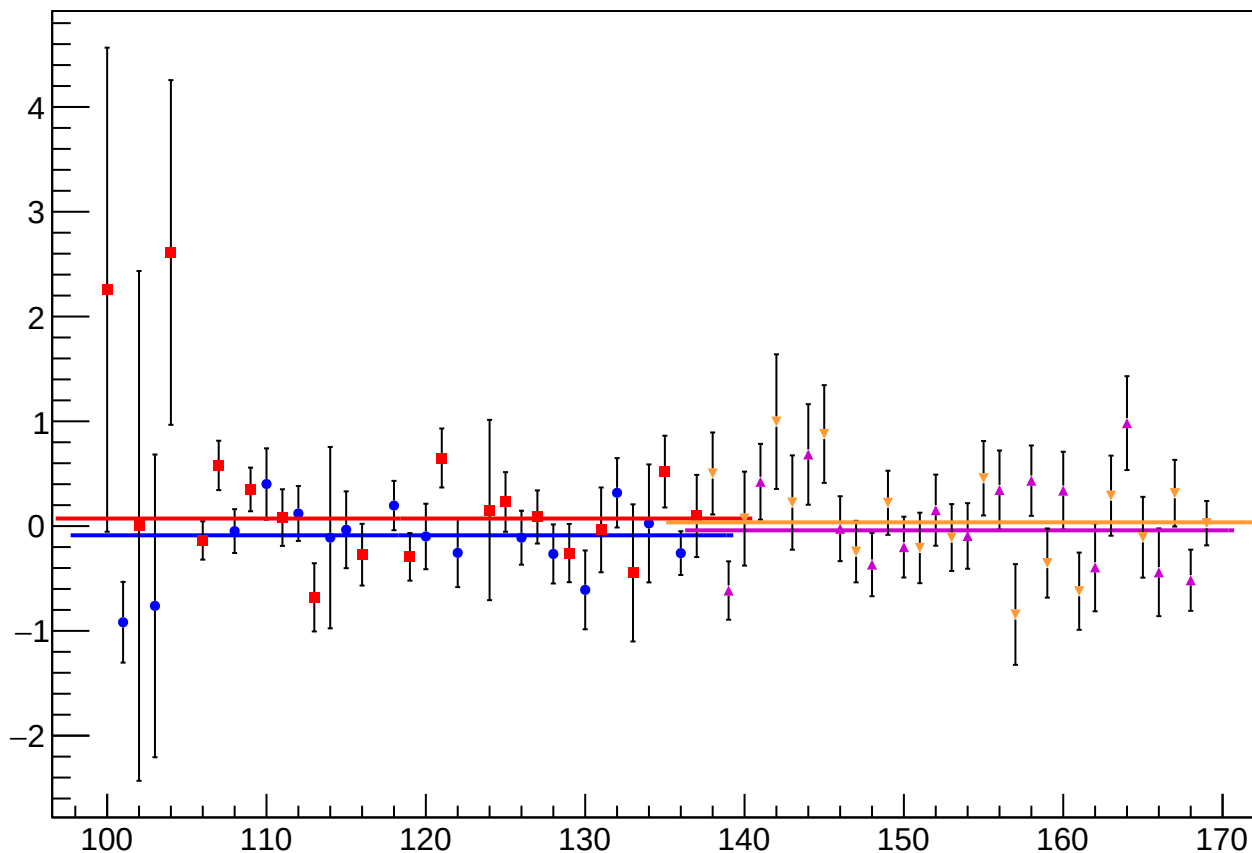
Right: 0.006+/-0.000 χ^2/NDF : 11788382.8/34

In: 0.006+/-0.000 χ^2/NDF : 11989573.1/30

Out: 0.006+/-0.000 χ^2/NDF : 12417753.5/35

All: 0.006+/-0.000 χ^2/NDF : 24440297.3/66

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.088 ± 0.077 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 0.036 ± 0.085 $\chi^2/\text{NDF}: 19.8/16$

Right Out: 0.072 ± 0.070 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.041 ± 0.088 $\chi^2/\text{NDF}: 23.6/14$

Left: -0.001 ± 0.061 $\chi^2/\text{NDF}: 43.8/31$

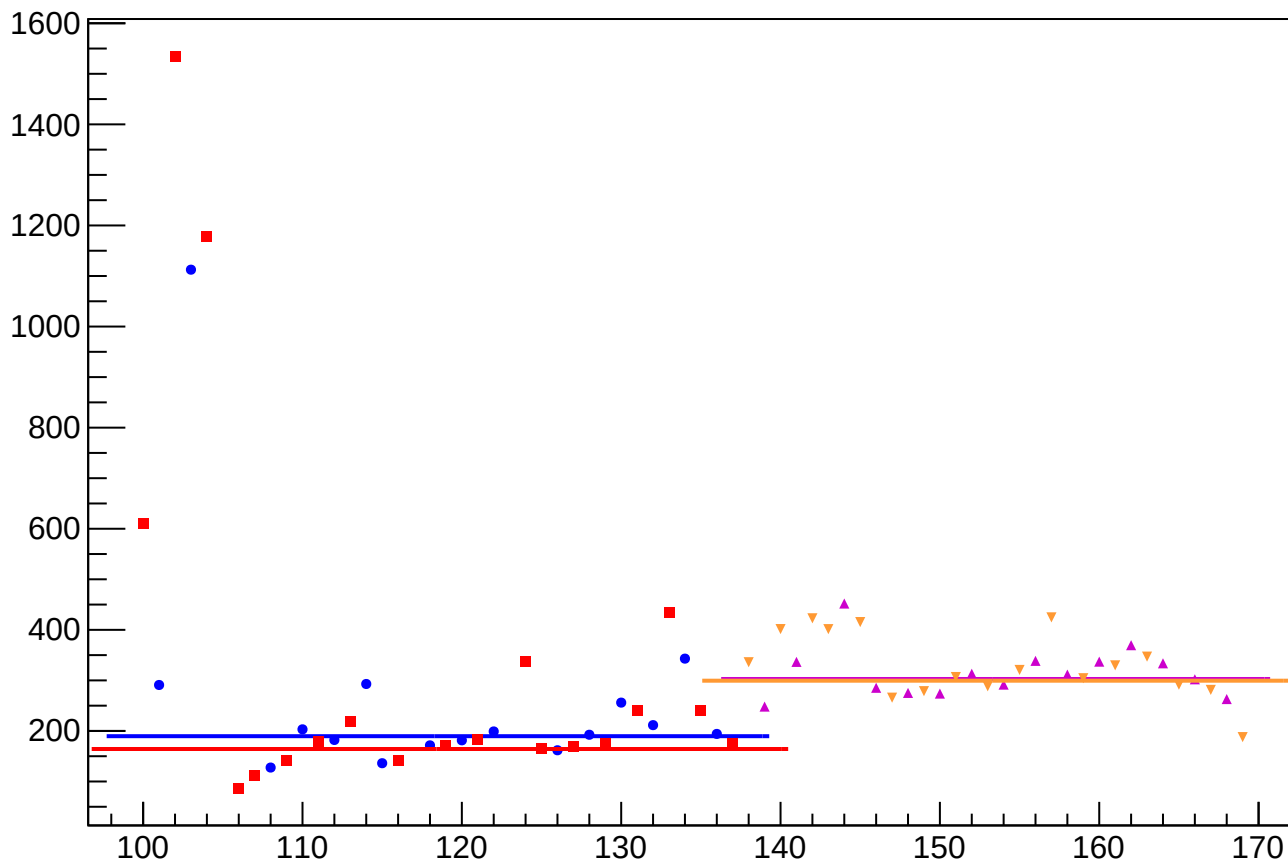
Right: -0.000 ± 0.052 $\chi^2/\text{NDF}: 44.9/34$

In: -0.068 ± 0.058 $\chi^2/\text{NDF}: 37.6/30$

Out: 0.058 ± 0.054 $\chi^2/\text{NDF}: 48.5/35$

All: -0.001 ± 0.039 $\chi^2/\text{NDF}: 88.7/66$

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628 ± 0.054 χ^2/NDF : 1465464.1/15

Left Out: 299.405 ± 0.060 χ^2/NDF : 1213179.8/16

Right Out: 164.286 ± 0.050 χ^2/NDF : 2643465.6/18

Left In: 302.781 ± 0.062 χ^2/NDF : 469196.1/14

Left: 301.025 ± 0.043 χ^2/NDF : 1683897.4/31

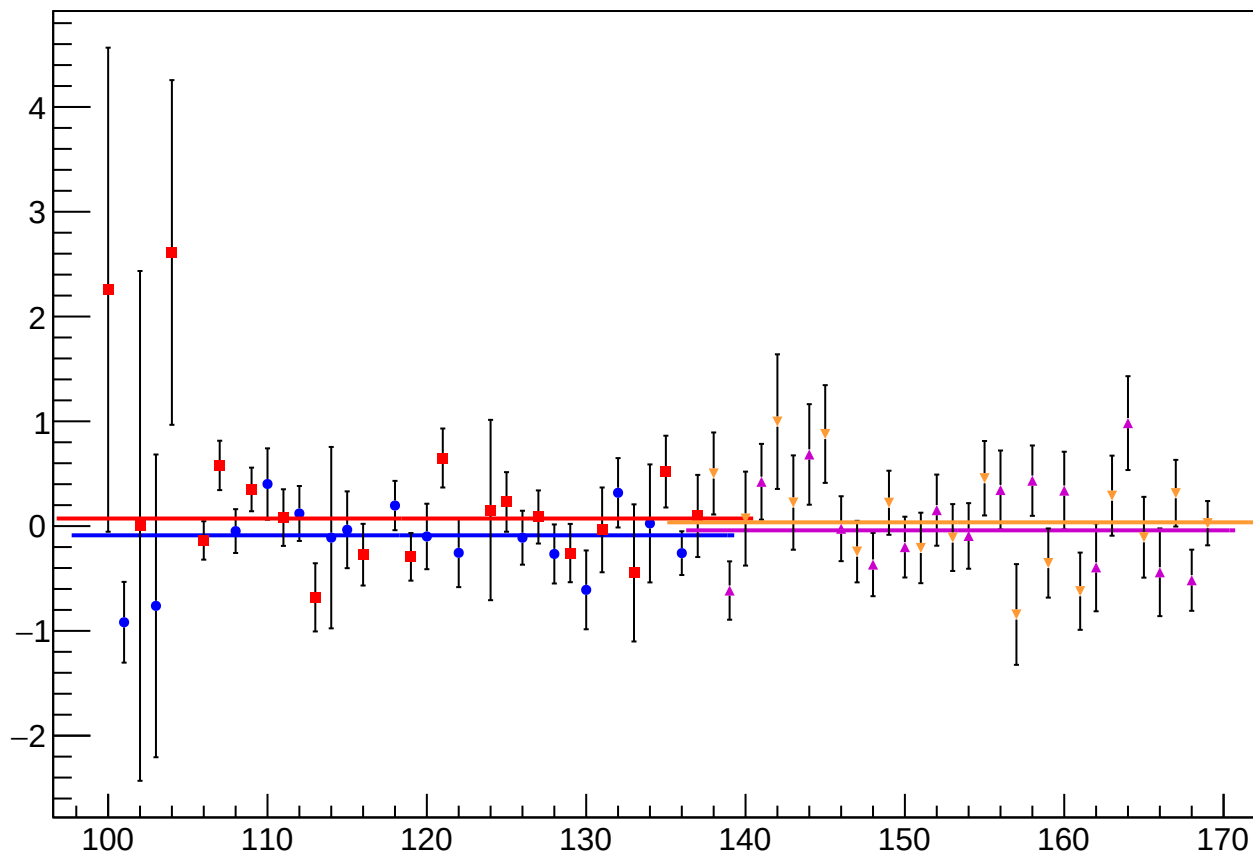
Right: 175.793 ± 0.037 χ^2/NDF : 4227906.3/34

In: 238.358 ± 0.041 χ^2/NDF : 3805938.4/30

Out: 219.053 ± 0.038 χ^2/NDF : 6875928.3/35

All: 228.028 ± 0.028 χ^2/NDF : 10800739.4/66

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.088 ± 0.077 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 0.036 ± 0.085 $\chi^2/\text{NDF}: 19.8/16$

Right Out: 0.072 ± 0.070 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.041 ± 0.088 $\chi^2/\text{NDF}: 23.6/14$

Left: -0.001 ± 0.061 $\chi^2/\text{NDF}: 43.8/31$

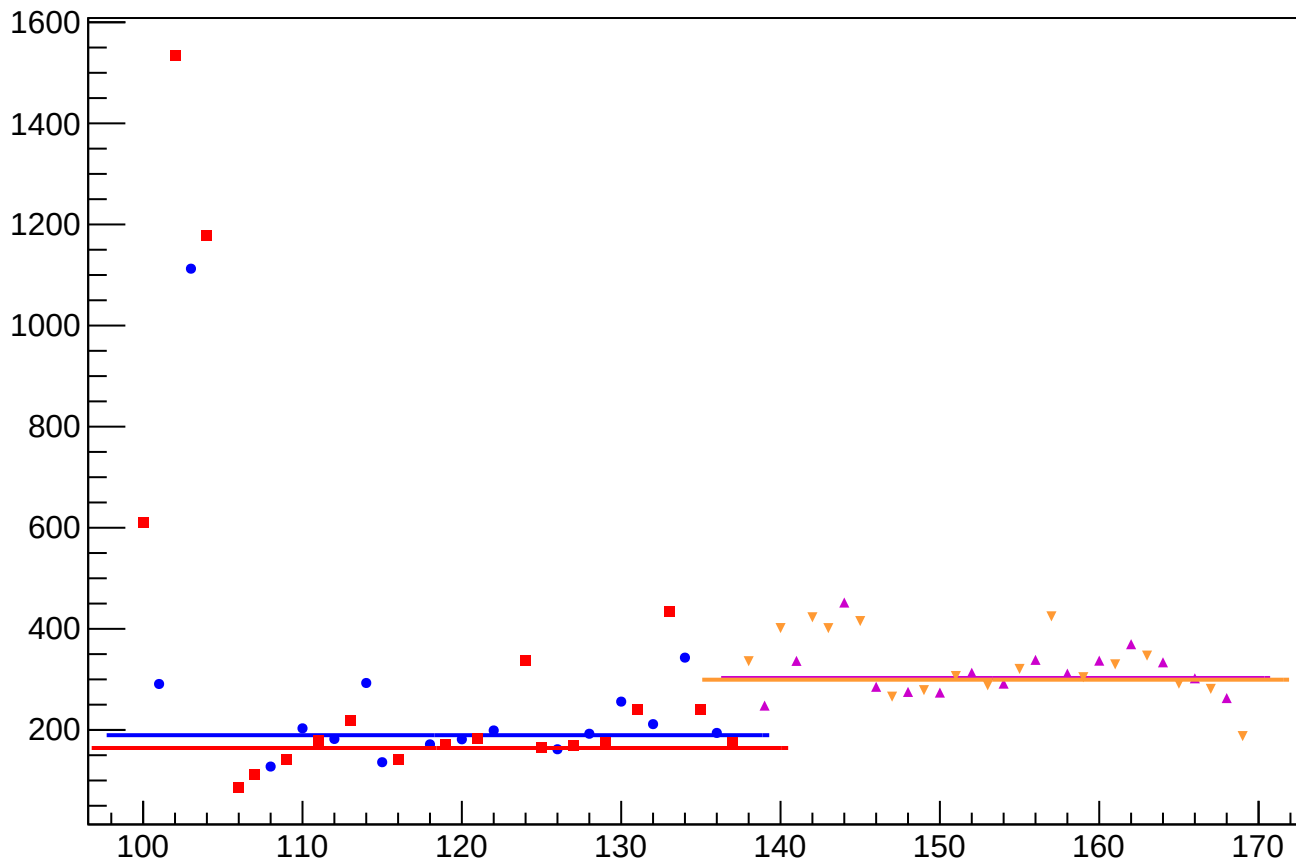
Right: -0.000 ± 0.052 $\chi^2/\text{NDF}: 44.9/34$

In: -0.068 ± 0.058 $\chi^2/\text{NDF}: 37.6/30$

Out: 0.058 ± 0.054 $\chi^2/\text{NDF}: 48.5/35$

All: -0.001 ± 0.039 $\chi^2/\text{NDF}: 88.7/66$

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 189.628+/-0.054 χ^2/NDF : 1465464.1/15

Left Out: 299.405+/-0.060 χ^2/NDF : 1213179.8/16

Right Out: 164.286+/-0.050 χ^2/NDF : 2643465.6/18

Left In: 302.781+/-0.062 χ^2/NDF : 469196.1/14

Left: 301.025+/-0.043 χ^2/NDF : 1683897.4/31

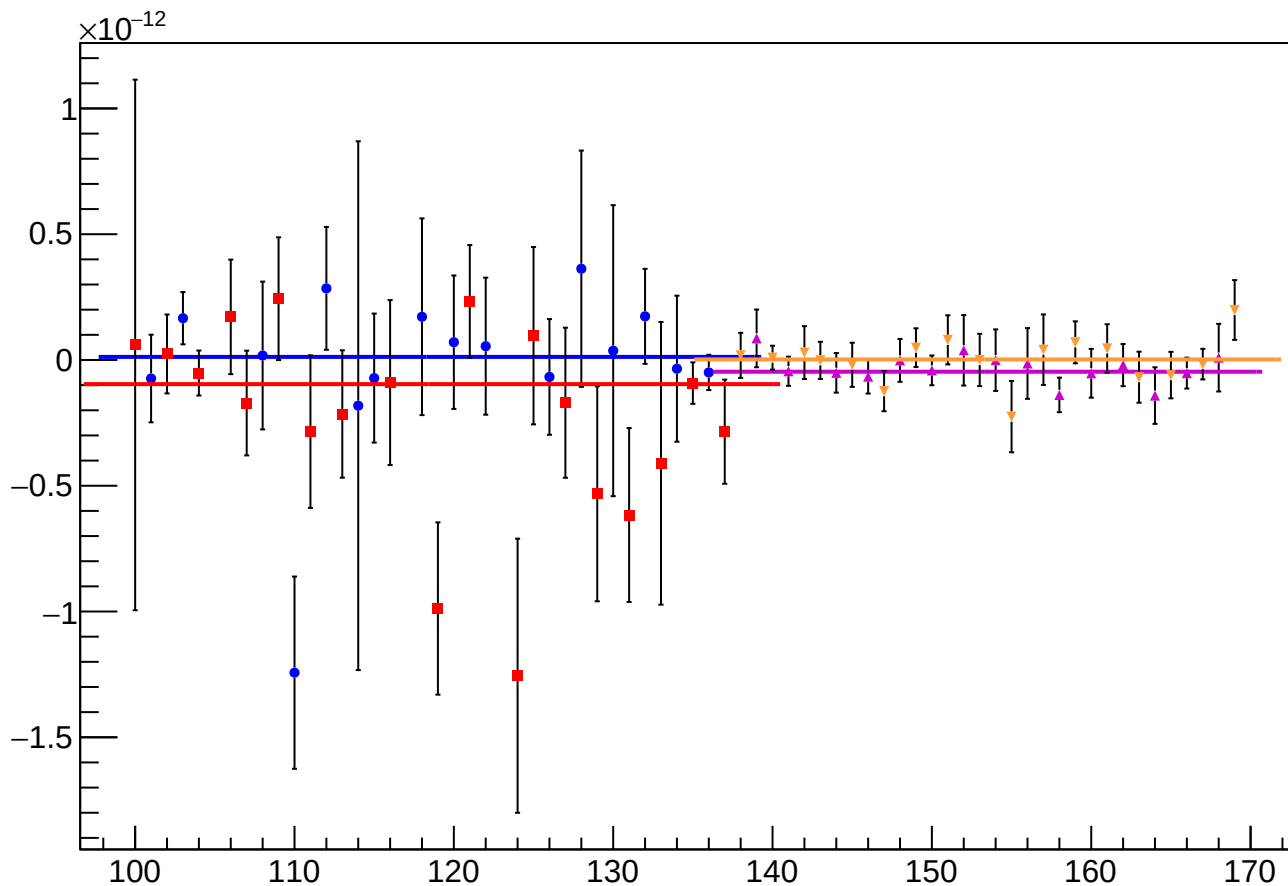
Right: 175.793+/-0.037 χ^2/NDF : 4227906.3/34

In: 238.358+/-0.041 χ^2/NDF : 3805938.4/30

Out: 219.053+/-0.038 χ^2/NDF : 6875928.3/35

All: 228.028+/-0.028 χ^2/NDF : 10800739.4/66

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 11.0/16

Right Out: -0.000+/-0.000 χ^2/NDF : 23.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 5.1/14

Left: -0.000+/-0.000 χ^2/NDF : 18.8/31

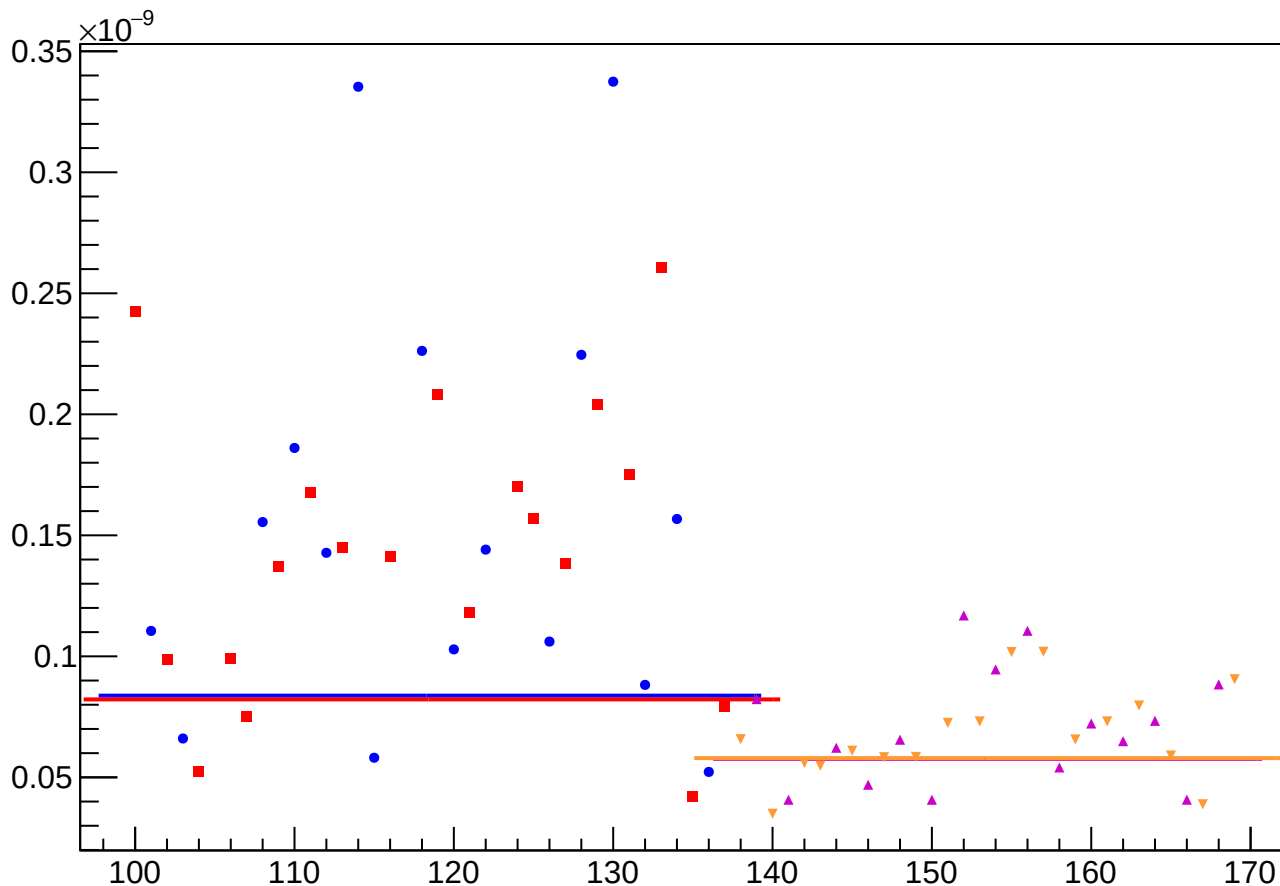
Right: -0.000+/-0.000 χ^2/NDF : 43.1/34

In: -0.000+/-0.000 χ^2/NDF : 23.5/30

Out: -0.000+/-0.000 χ^2/NDF : 38.1/35

All: -0.000+/-0.000 χ^2/NDF : 62.3/66

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2109060.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :1473586.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2271900.5/18

Left In: 0.000+/-0.000 χ^2/NDF :1683251.6/14

Left: 0.000+/-0.000 χ^2/NDF : 3157059.2/31

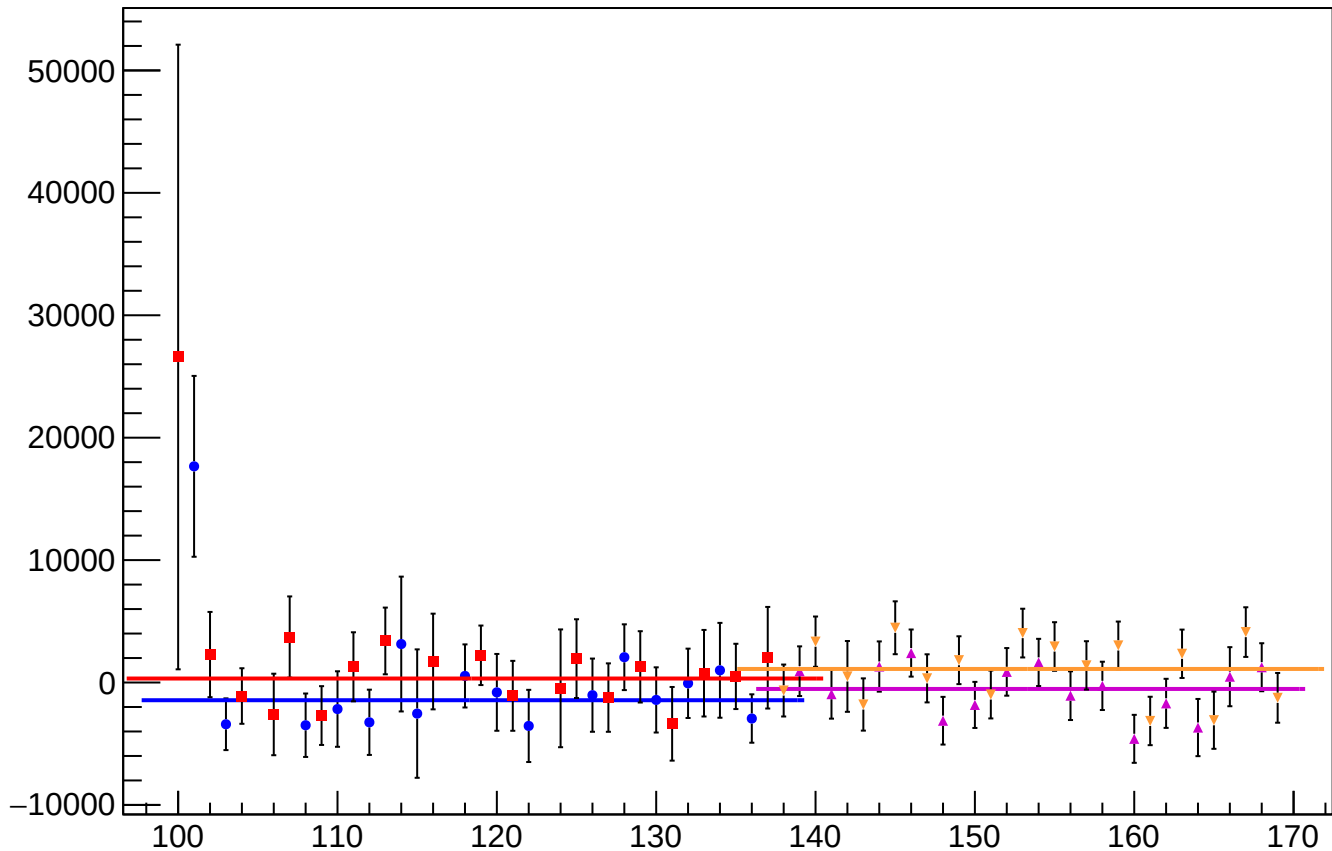
Right: 0.000+/-0.000 χ^2/NDF : 4382137.4/34

In: 0.000+/-0.000 χ^2/NDF :4331613.0/30

Out: 0.000+/-0.000 χ^2/NDF :4232274.8/35

All: 0.000+/-0.000 χ^2/NDF : 8563994.9/66

reg_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1446.547 $\pm$ 723.140 χ^2 /NDF: 13.5/15

Left Out: 1107.853 $\pm$ 499.936 χ^2 /NDF: 23.4/16

Right Out: 325.908 $\pm$ 702.648 χ^2 /NDF: 9.9/18

Left In: -525.458 $\pm$ 518.967 χ^2 /NDF: 15.3/14

Left: 321.694 $\pm$ 360.048 χ^2 /NDF: 43.8/31

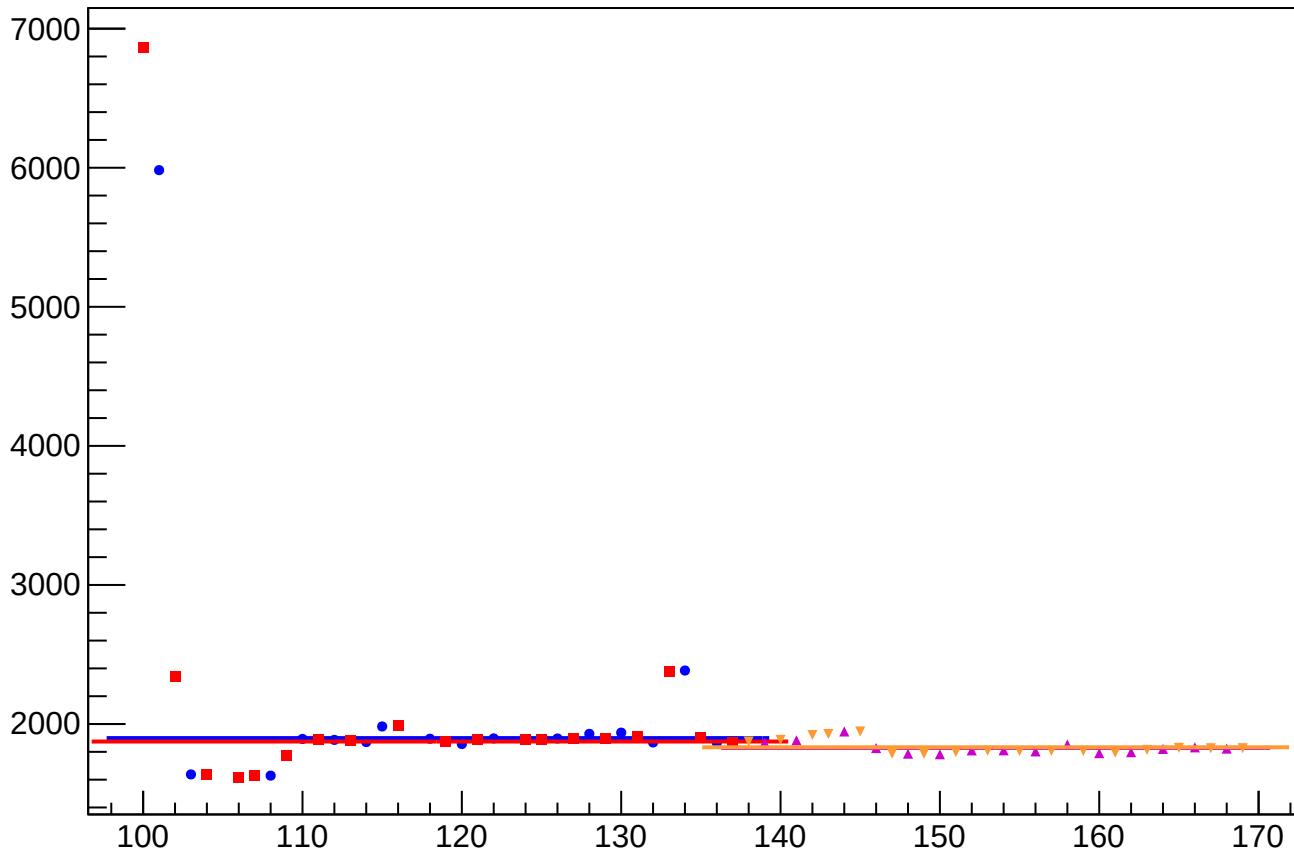
Right: -534.850 $\pm$ 503.936 χ^2 /NDF: 26.5/34

In: -838.581 $\pm$ 421.628 χ^2 /NDF: 29.9/30

Out: 845.046 $\pm$ 407.350 χ^2 /NDF: 34.2/35

All: 32.221 $\pm$ 292.958 χ^2 /NDF: 72.3/66

reg_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1898.826+/-0.511 χ^2/NDF : 697514.2/15

Left Out: 1832.678+/-0.354 χ^2/NDF : 18657.3/16

Right Out: 1874.251+/-0.495 χ^2/NDF : 207657.7/18

Left In: 1827.953+/-0.367 χ^2/NDF : 13153.4/14

Left: 1830.404+/-0.255 χ^2/NDF : 31896.7/31

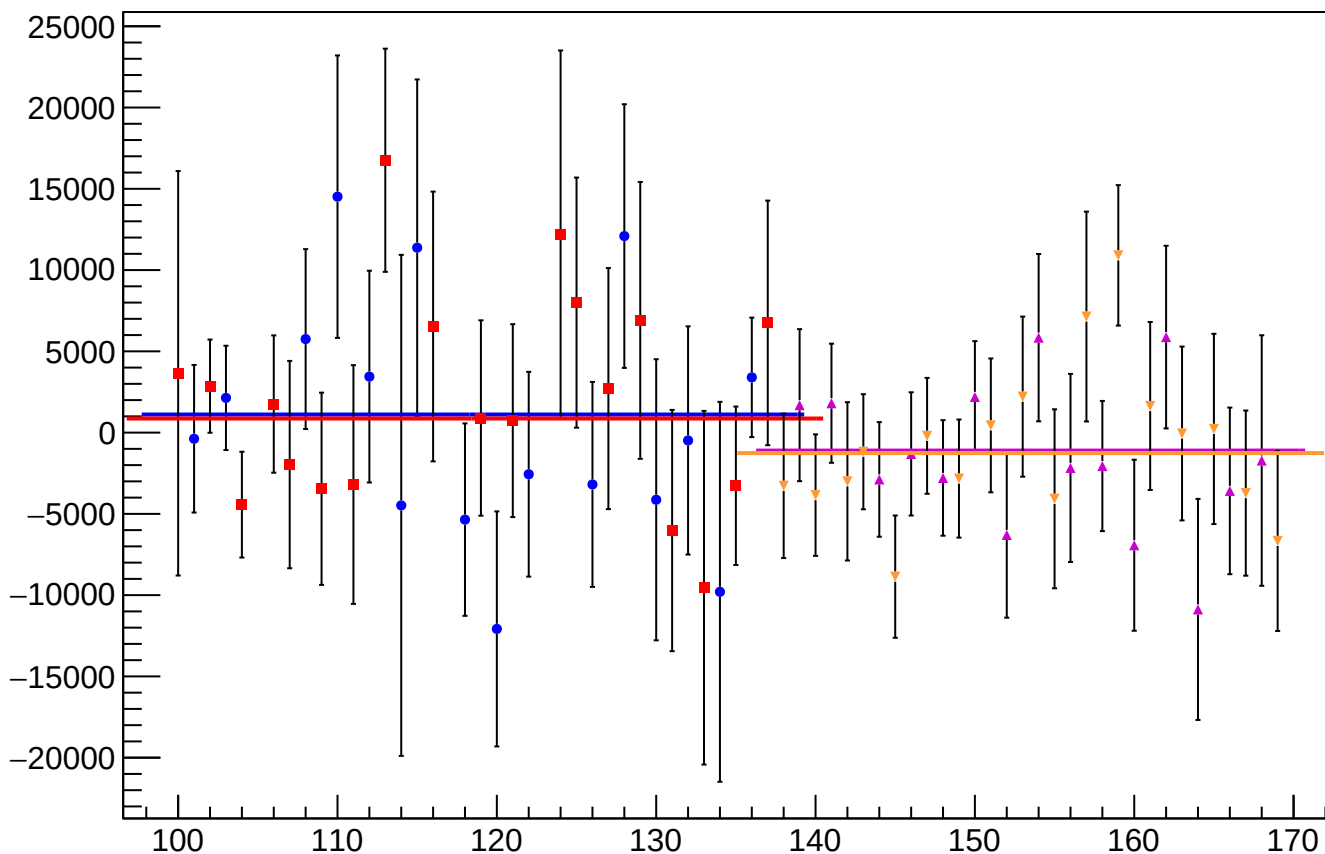
Right: 1886.144+/-0.356 χ^2/NDF : 906364.0/34

In: 1852.046+/-0.298 χ^2/NDF : 723347.9/30

Out: 1846.714+/-0.288 χ^2/NDF : 230984.0/35

All: 1849.285+/-0.207 χ^2/NDF : 954497.6/66

asym_atr_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1112.704+/-1479.265 χ^2/NDF : 13.4/15

Left Out: -1259.253+/-1082.698 χ^2/NDF :17.3/16

Right Out: 866.976+/-1307.223 χ^2/NDF : 15.6/18

Left In: -1105.821+/-1156.931 χ^2/NDF :10.4/14

Left: -1187.617+/-790.525 χ^2/NDF : 27.8/31

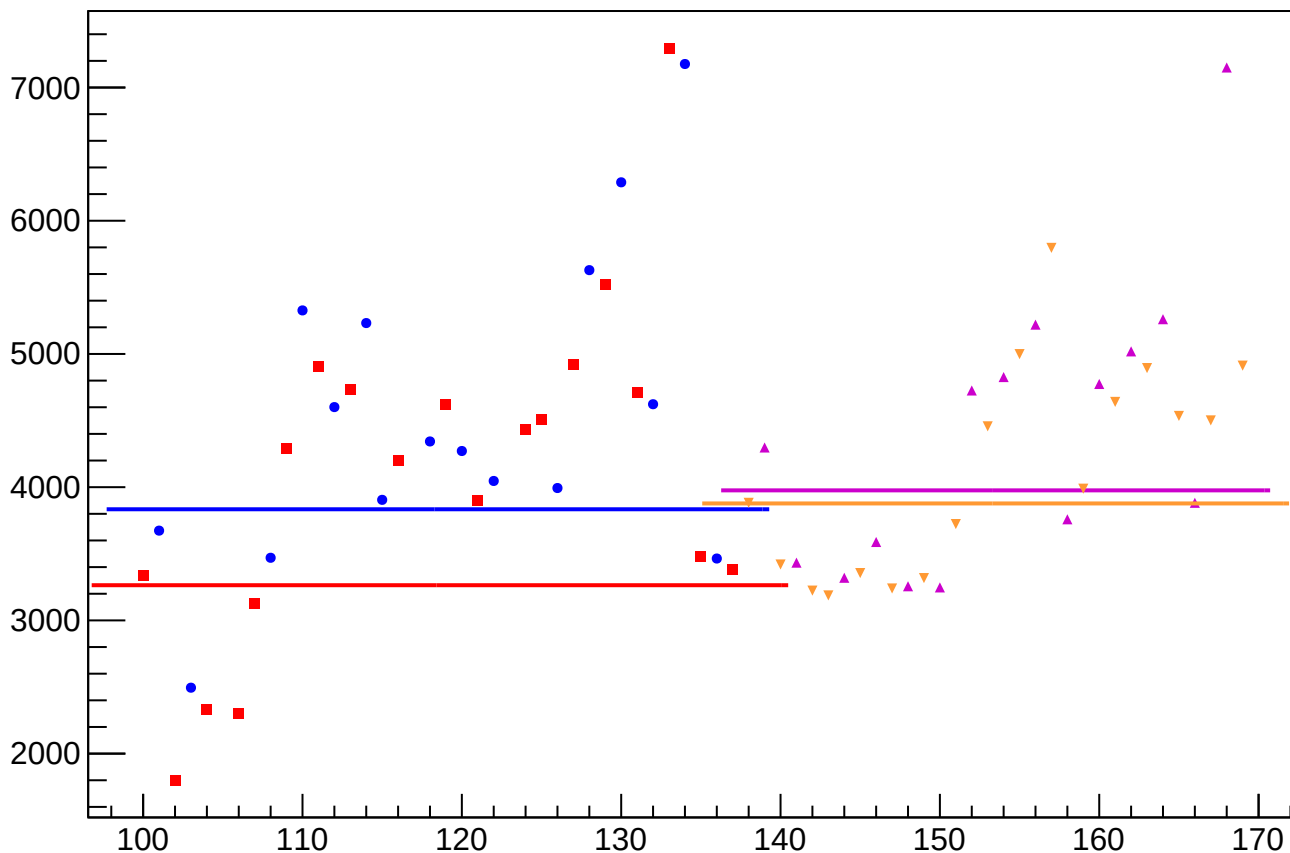
Right: 974.726+/-979.552 χ^2/NDF : 29.0/34

In: -263.827+/-911.315 χ^2/NDF :25.2/30

Out: -394.143+/-833.836 χ^2/NDF :34.5/35

All: -334.759+/-615.182 χ^2/NDF : 59.7/66

asym_atr_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3834.164+/-1.046 χ^2/NDF : 956775.6/15

Left Out: 3877.874+/-0.766 χ^2/NDF : 824656.7/16

Right Out: 3264.110+/-0.924 χ^2/NDF : 1864241.4/18

Left In: 3976.102+/-0.818 χ^2/NDF : 1038200.1/14

Left: 3923.736+/-0.559 χ^2/NDF : 1870542.8/31

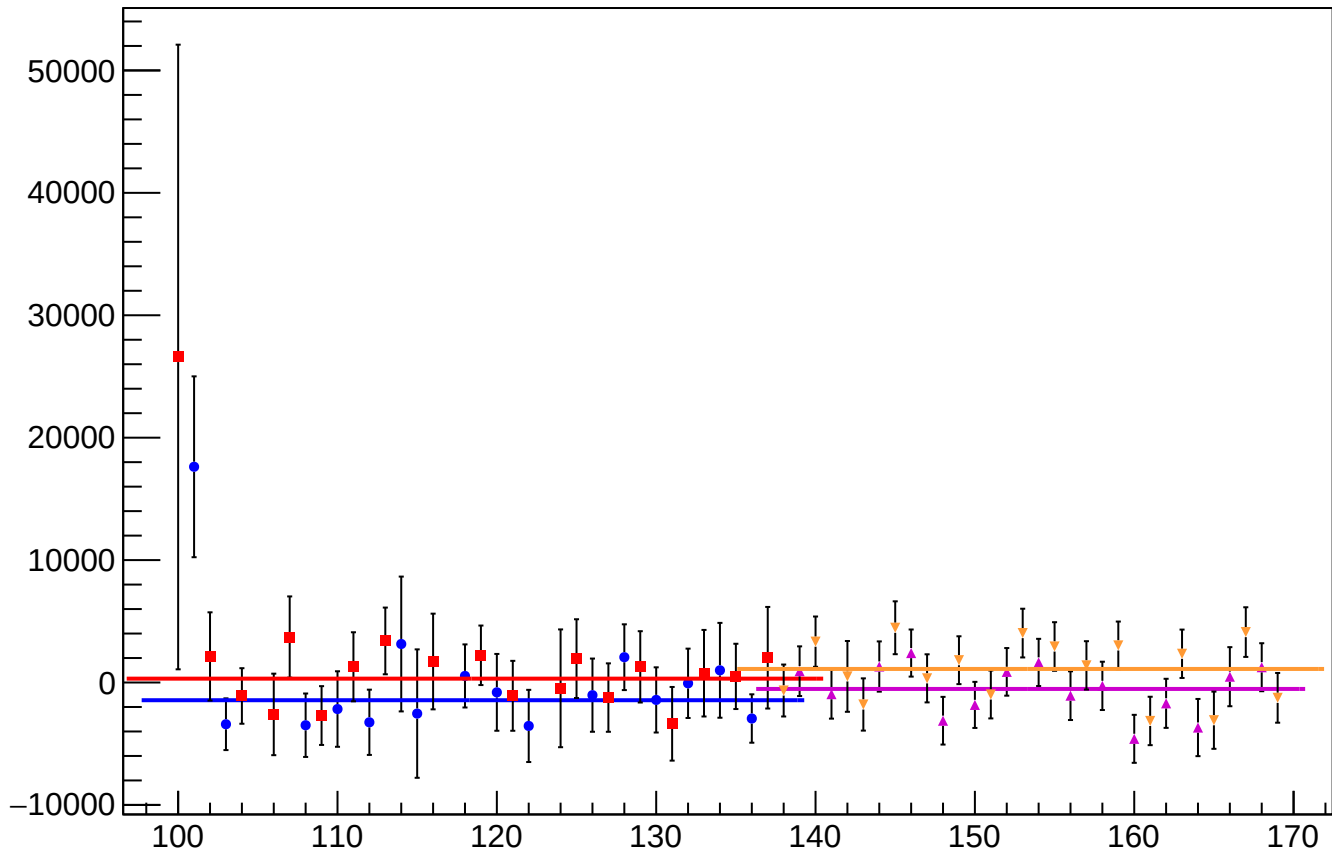
Right: 3514.075+/-0.693 χ^2/NDF : 2987789.5/34

In: 3922.232+/-0.644 χ^2/NDF : 2006400.8/30

Out: 3628.149+/-0.590 χ^2/NDF : 2950402.7/35

All: 3762.160+/-0.435 χ^2/NDF : 5070168.9/66

cor_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1446.933 $\pm$ 723.140 χ^2/NDF : 13.5/15

Left Out: 1107.976 $\pm$ 499.936 χ^2/NDF : 23.4/16

Right Out: 315.462 $\pm$ 703.596 χ^2/NDF : 9.9/18

Left In: -525.424 $\pm$ 518.967 χ^2/NDF : 15.3/14

Left: 321.774 $\pm$ 360.048 χ^2/NDF : 43.8/31

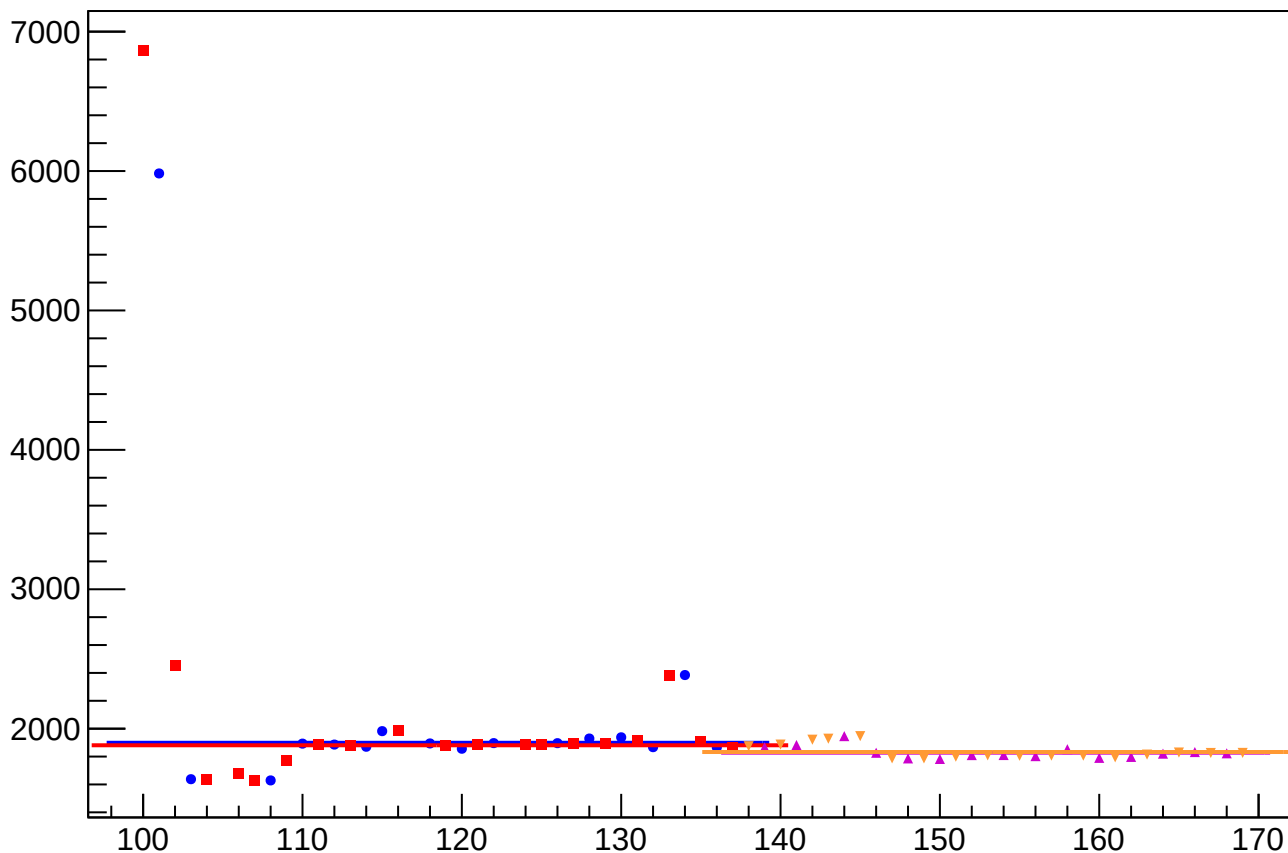
Right: -541.597 $\pm$ 504.285 χ^2/NDF : 26.4/34

In: -838.689 $\pm$ 421.628 χ^2/NDF : 29.8/30

Out: 842.094 $\pm$ 407.535 χ^2/NDF : 34.1/35

All: 30.262 $\pm$ 293.026 χ^2/NDF : 72.2/66

cor_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1898.826 $\pm$ 0.511 χ^2 /NDF: 697514.4/15

Left Out: 1832.678 $\pm$ 0.354 χ^2 /NDF: 18657.3/16

Right Out: 1881.007 $\pm$ 0.497 χ^2 /NDF: 216564.4/18

Left In: 1827.953 $\pm$ 0.367 χ^2 /NDF: 13153.4/14

Left: 1830.404 $\pm$ 0.255 χ^2 /NDF: 31896.7/31

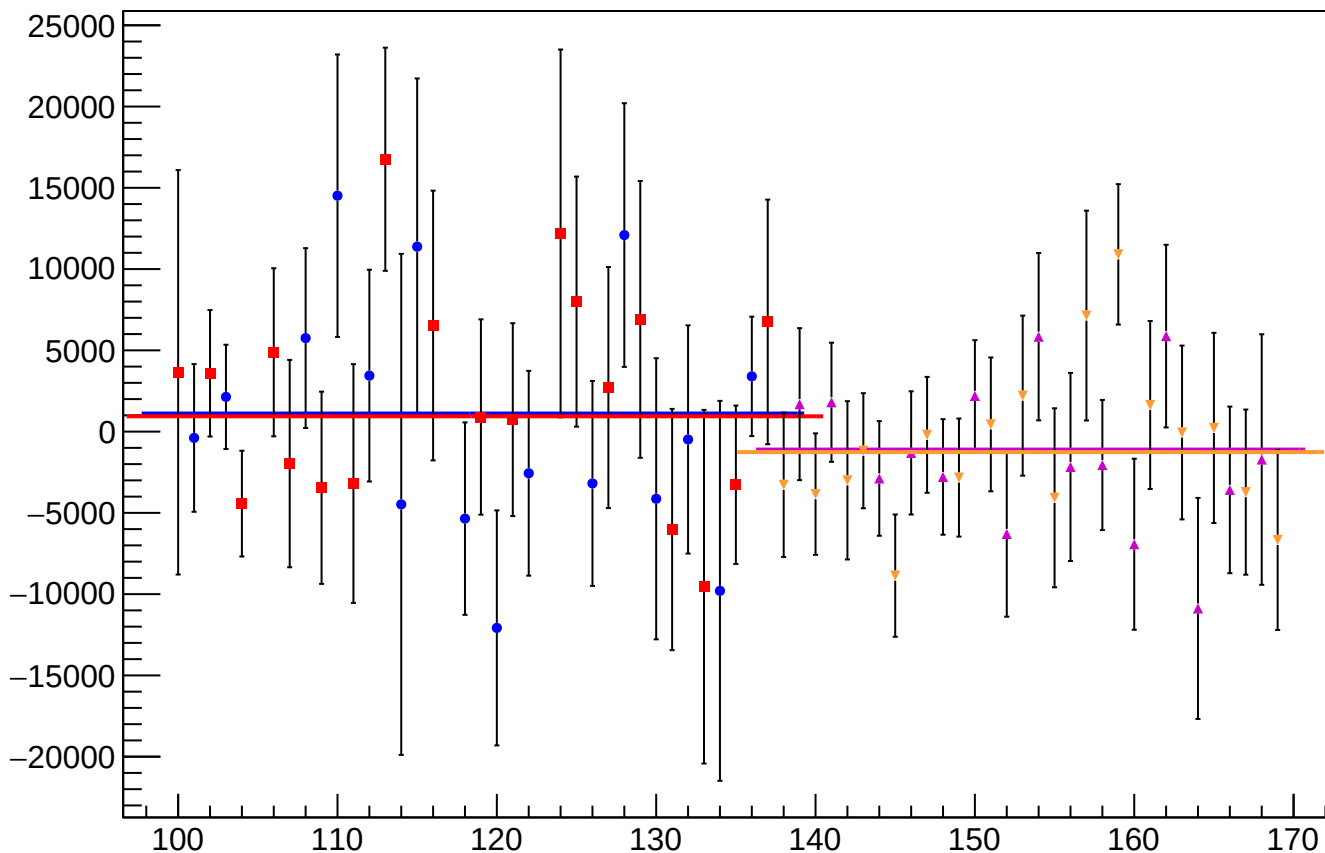
Right: 1889.658 $\pm$ 0.356 χ^2 /NDF: 914703.5/34

In: 1852.046 $\pm$ 0.298 χ^2 /NDF: 723348.0/30

Out: 1848.926 $\pm$ 0.288 χ^2 /NDF: 241504.8/35

All: 1850.432 $\pm$ 0.207 χ^2 /NDF: 964909.4/66

asym_atr_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 1111.533+/-1479.438 χ^2/NDF : 13.4/15

Left Out: -1259.206+/-1082.697 χ^2/NDF : 17.3/16

Right Out: 940.712+/-1398.993 χ^2/NDF : 16.2/18

Left In: -1105.900+/-1156.930 χ^2/NDF : 10.4/14

Left: -1187.629+/-790.524 χ^2/NDF : 27.8/31

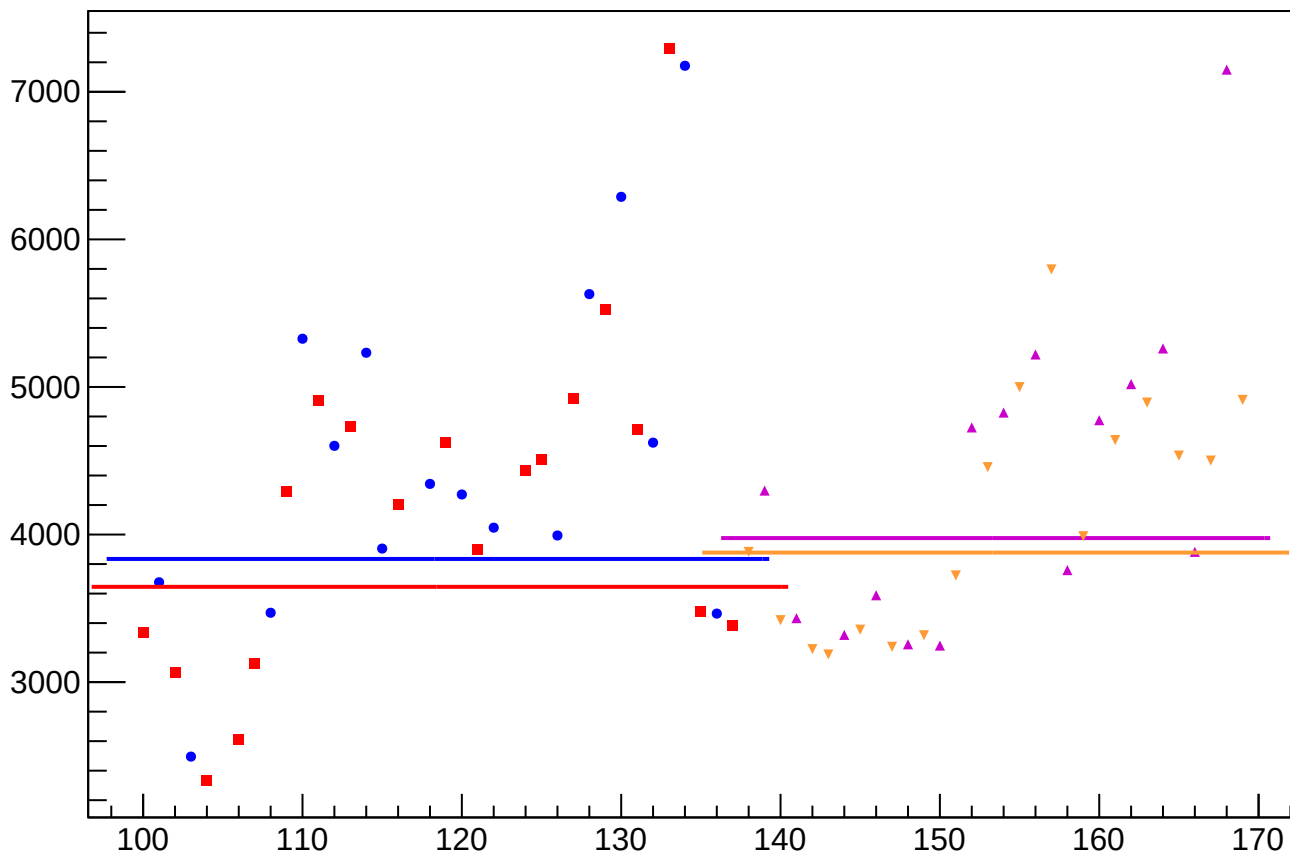
Right: 1021.352+/-1016.487 χ^2/NDF : 29.6/34

In: -264.444+/-911.354 χ^2/NDF : 25.2/30

Out: -435.149+/-856.231 χ^2/NDF : 35.1/35

All: -355.115+/-624.025 χ^2/NDF : 60.3/66

asym_atr_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3834.690+/-1.046 χ^2/NDF : 956312.2/15

Left Out: 3877.871+/-0.766 χ^2/NDF : 824652.1/16

Right Out: 3645.689+/-0.989 χ^2/NDF : 1124981.4/18

Left In: 3976.096+/-0.818 χ^2/NDF : 1038214.1/14

Left: 3923.731+/-0.559 χ^2/NDF : 1870551.8/31

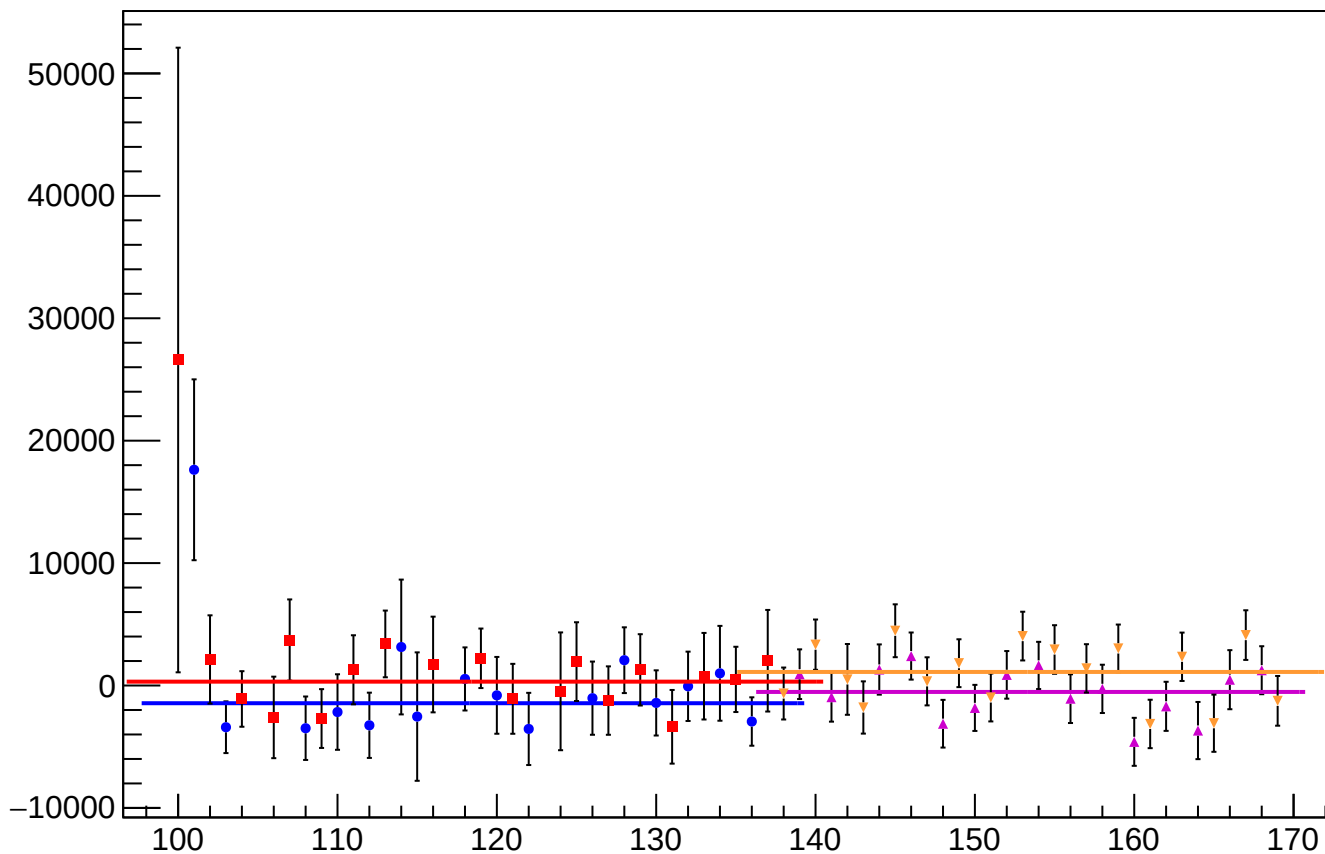
Right: 3734.912+/-0.719 χ^2/NDF : 2098525.6/34

In: 3922.436+/-0.644 χ^2/NDF : 2005864.3/30

Out: 3790.899+/-0.605 χ^2/NDF : 1984086.3/35

All: 3852.570+/-0.441 χ^2/NDF : 4012080.1/66

eigen_cor_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1446.933 $\pm$ 723.140 χ^2 /NDF: 13.5/15

Left Out: 1107.976 $\pm$ 499.936 χ^2 /NDF: 23.4/16

Right Out: 315.462 $\pm$ 703.596 χ^2 /NDF: 9.9/18

Left In: -525.424 $\pm$ 518.967 χ^2 /NDF: 15.3/14

Left: 321.774 $\pm$ 360.048 χ^2 /NDF: 43.8/31

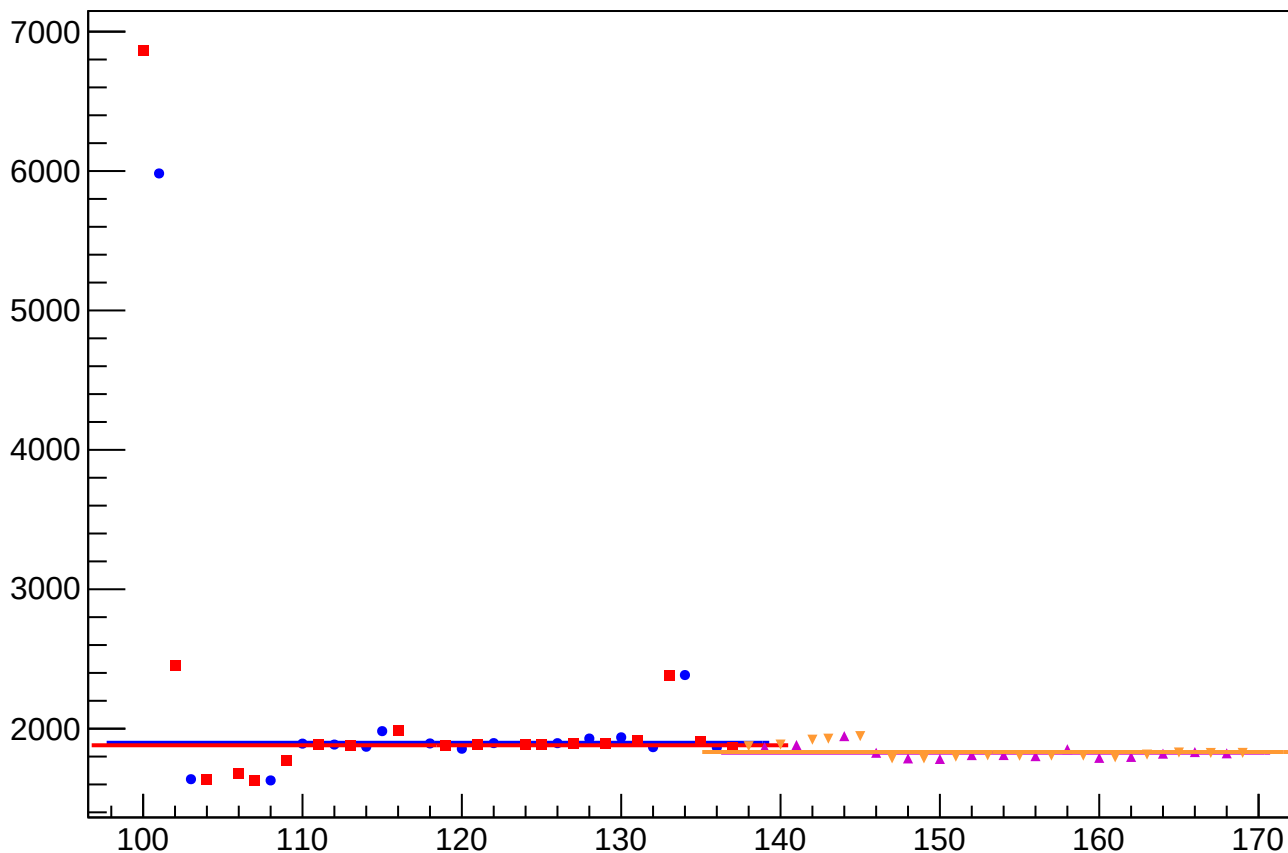
Right: -541.597 $\pm$ 504.285 χ^2 /NDF: 26.4/34

In: -838.689 $\pm$ 421.628 χ^2 /NDF: 29.8/30

Out: 842.094 $\pm$ 407.535 χ^2 /NDF: 34.1/35

All: 30.262 $\pm$ 293.026 χ^2 /NDF: 72.2/66

eigen_cor_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1898.826+/-0.511 χ^2/NDF : 697514.4/15

Left Out: 1832.678+/-0.354 χ^2/NDF : 18657.3/16

Right Out: 1881.007+/-0.497 χ^2/NDF : 216564.4/18

Left In: 1827.953+/-0.367 χ^2/NDF : 13153.4/14

Left: 1830.404+/-0.255 χ^2/NDF : 31896.7/31

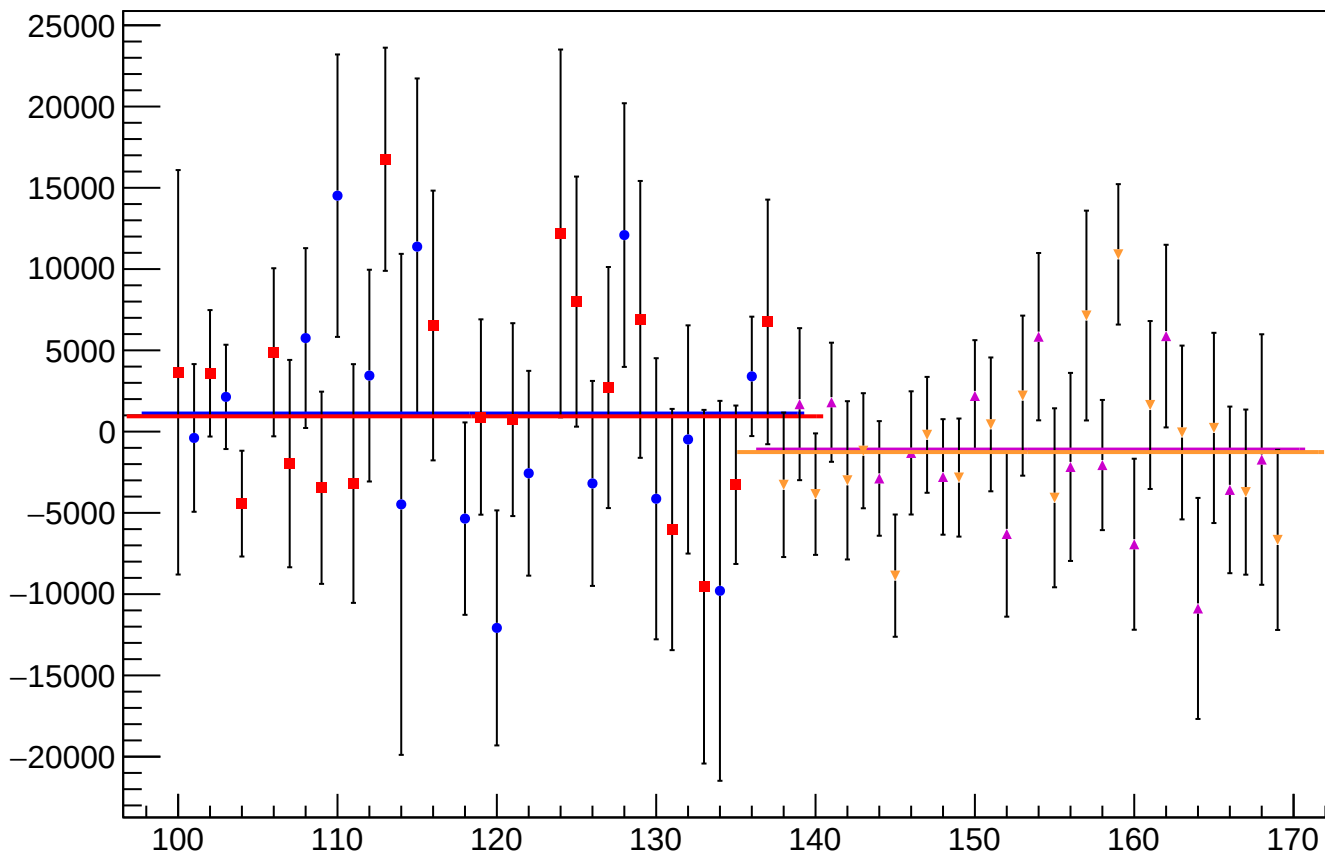
Right: 1889.658+/-0.356 χ^2/NDF : 914703.5/34

In: 1852.046+/-0.298 χ^2/NDF : 723348.0/30

Out: 1848.926+/-0.288 χ^2/NDF : 241504.8/35

All: 1850.432+/-0.207 χ^2/NDF : 964909.4/66

asym_atr_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 1111.533+/-1479.438 χ^2/NDF : 13.4/15

Left Out: -1259.206+/-1082.697 χ^2/NDF : 17.3/16

Right Out: 940.712+/-1398.993 χ^2/NDF : 16.2/18

Left In: -1105.900+/-1156.930 χ^2/NDF : 10.4/14

Left: -1187.629+/-790.524 χ^2/NDF : 27.8/31

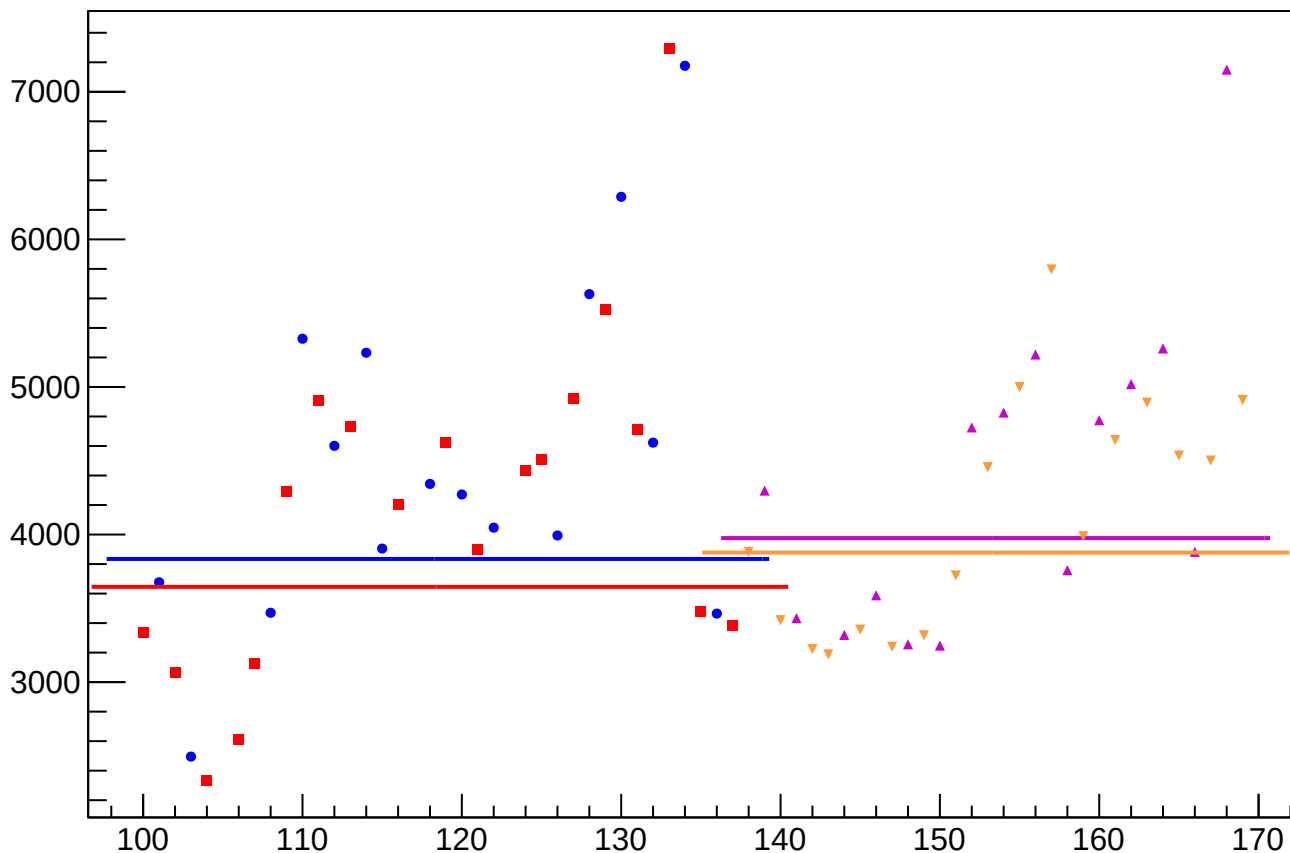
Right: 1021.352+/-1016.487 χ^2/NDF : 29.6/34

In: -264.444+/-911.354 χ^2/NDF : 25.2/30

Out: -435.149+/-856.231 χ^2/NDF : 35.1/35

All: -355.115+/-624.025 χ^2/NDF : 60.3/66

asym_atr_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3834.690+/-1.046 χ^2/NDF : 956312.2/15

Left Out: 3877.871+/-0.766 χ^2/NDF : 824652.1/16

Right Out: 3645.689+/-0.989 χ^2/NDF : 1124981.4/18

Left In: 3976.096+/-0.818 χ^2/NDF : 1038214.1/14

Left: 3923.731+/-0.559 χ^2/NDF : 1870551.8/31

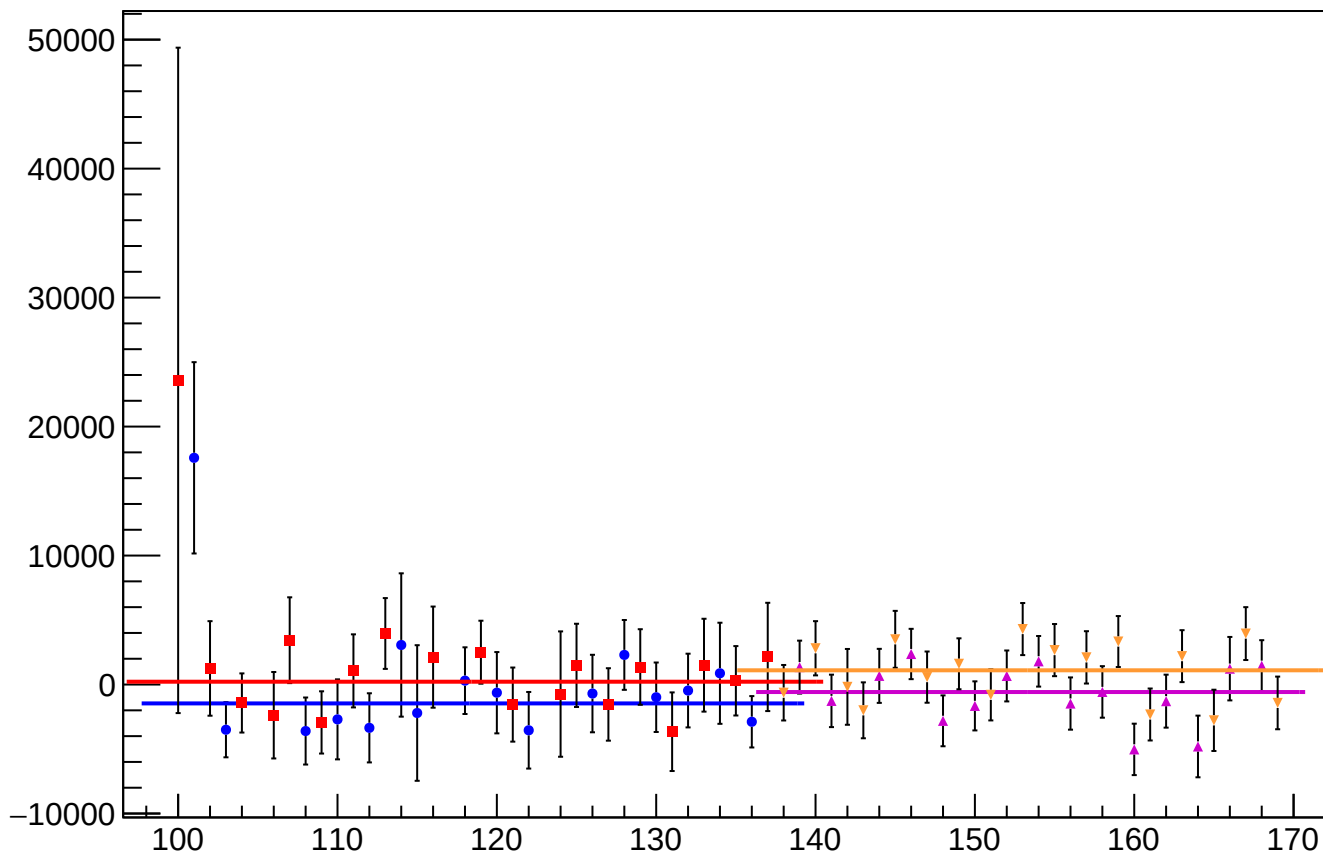
Right: 3734.912+/-0.719 χ^2/NDF : 2098525.6/34

In: 3922.436+/-0.644 χ^2/NDF : 2005864.3/30

Out: 3790.899+/-0.605 χ^2/NDF : 1984086.3/35

All: 3852.570+/-0.441 χ^2/NDF : 4012080.1/66

dit_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1462.640 $\pm$ 728.274 χ^2 /NDF: 13.6/15

Left Out: 1104.201 $\pm$ 507.786 χ^2 /NDF:19.7/16

Right Out: 219.726 $\pm$ 708.852 χ^2 /NDF: 10.8/18

Left In: -580.695 $\pm$ 527.191 χ^2 /NDF:17.1/14

Left: 293.333 $\pm$ 365.726 χ^2 /NDF: 42.2/31

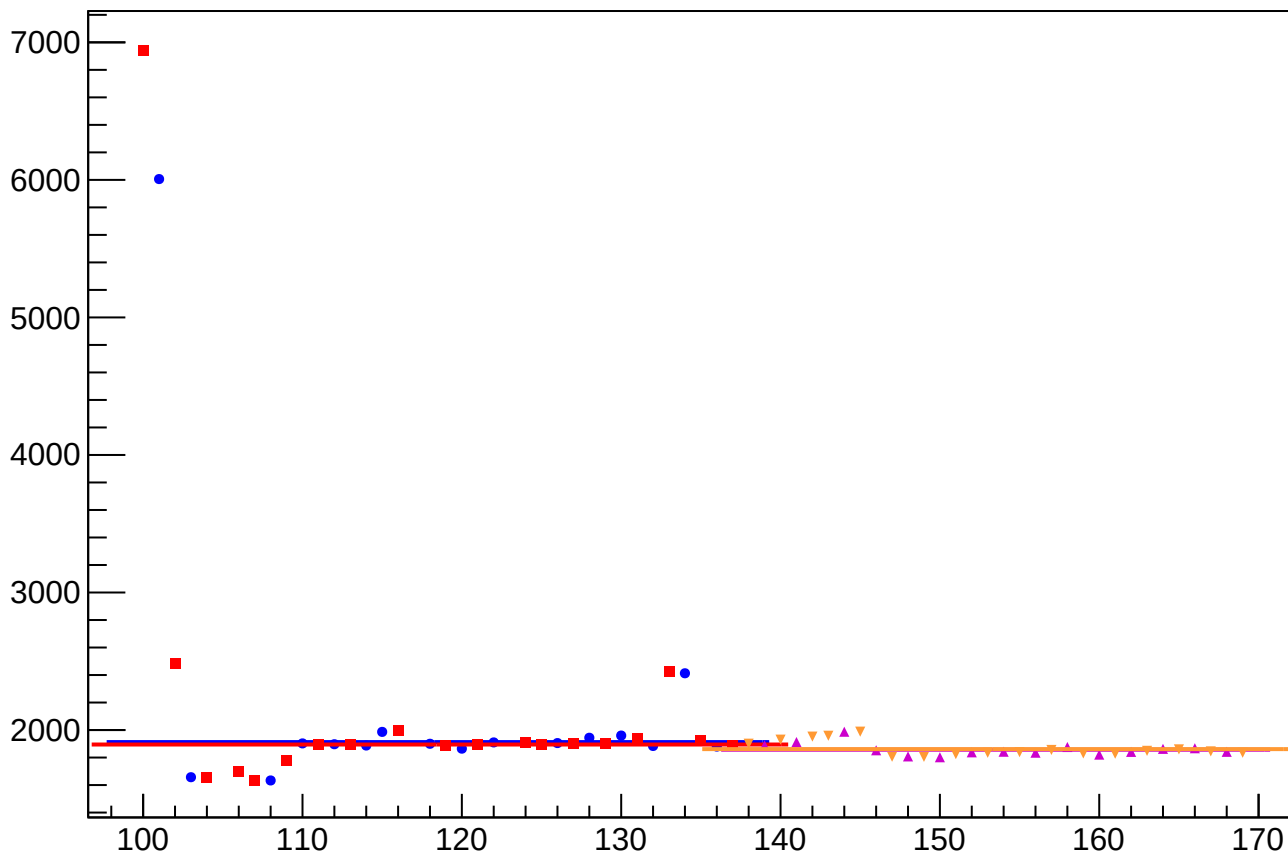
Right: -598.725 $\pm$ 507.962 χ^2 /NDF: 27.1/34

In: -883.942 $\pm$ 427.044 χ^2 /NDF:31.7/30

Out: 804.249 $\pm$ 412.799 χ^2 /NDF:31.6/35

All: -11.220 $\pm$ 296.801 χ^2 /NDF: 71.3/66

dit_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1912.378+/-0.515 χ^2/NDF : 696220.3/15

Left Out: 1861.316+/-0.359 χ^2/NDF : 21441.4/16

Right Out: 1894.765+/-0.501 χ^2/NDF : 219781.5/18

Left In: 1856.832+/-0.373 χ^2/NDF : 14320.7/14

Left: 1859.158+/-0.259 χ^2/NDF : 35837.1/31

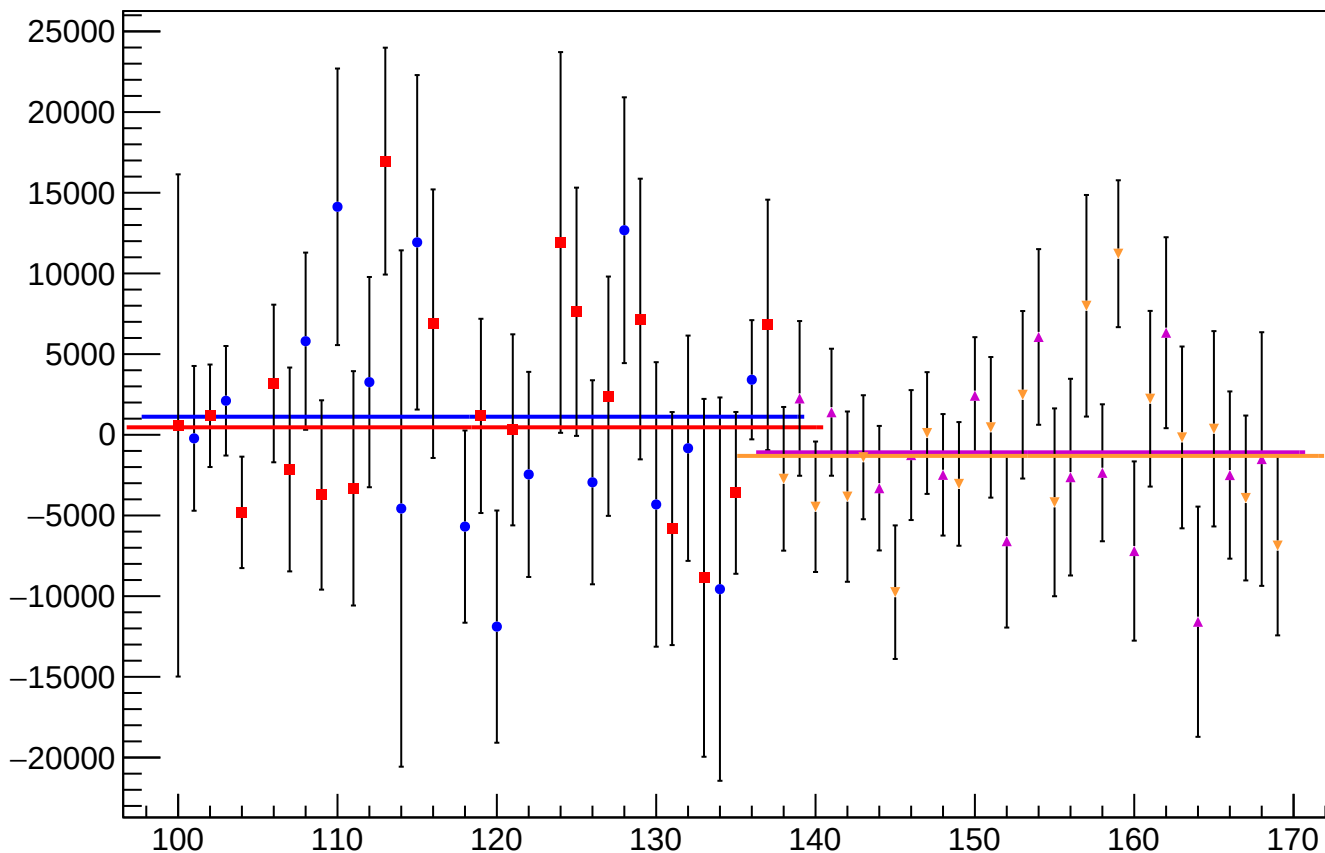
Right: 1903.324+/-0.359 χ^2/NDF : 916603.1/34

In: 1875.931+/-0.302 χ^2/NDF : 718175.2/30

Out: 1872.675+/-0.292 χ^2/NDF : 244170.1/35

All: 1874.247+/-0.210 χ^2/NDF : 962405.4/66

asym_atr_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1120.173+/-1497.671 χ^2/NDF : 13.5/15

Left Out: -1307.323+/-1144.106 χ^2/NDF : 17.6/16

Right Out: 464.368+/-1370.818 χ^2/NDF : 15.0/18

Left In: -1085.756+/-1223.018 χ^2/NDF : 10.2/14

Left: -1203.918+/-835.510 χ^2/NDF : 27.9/31

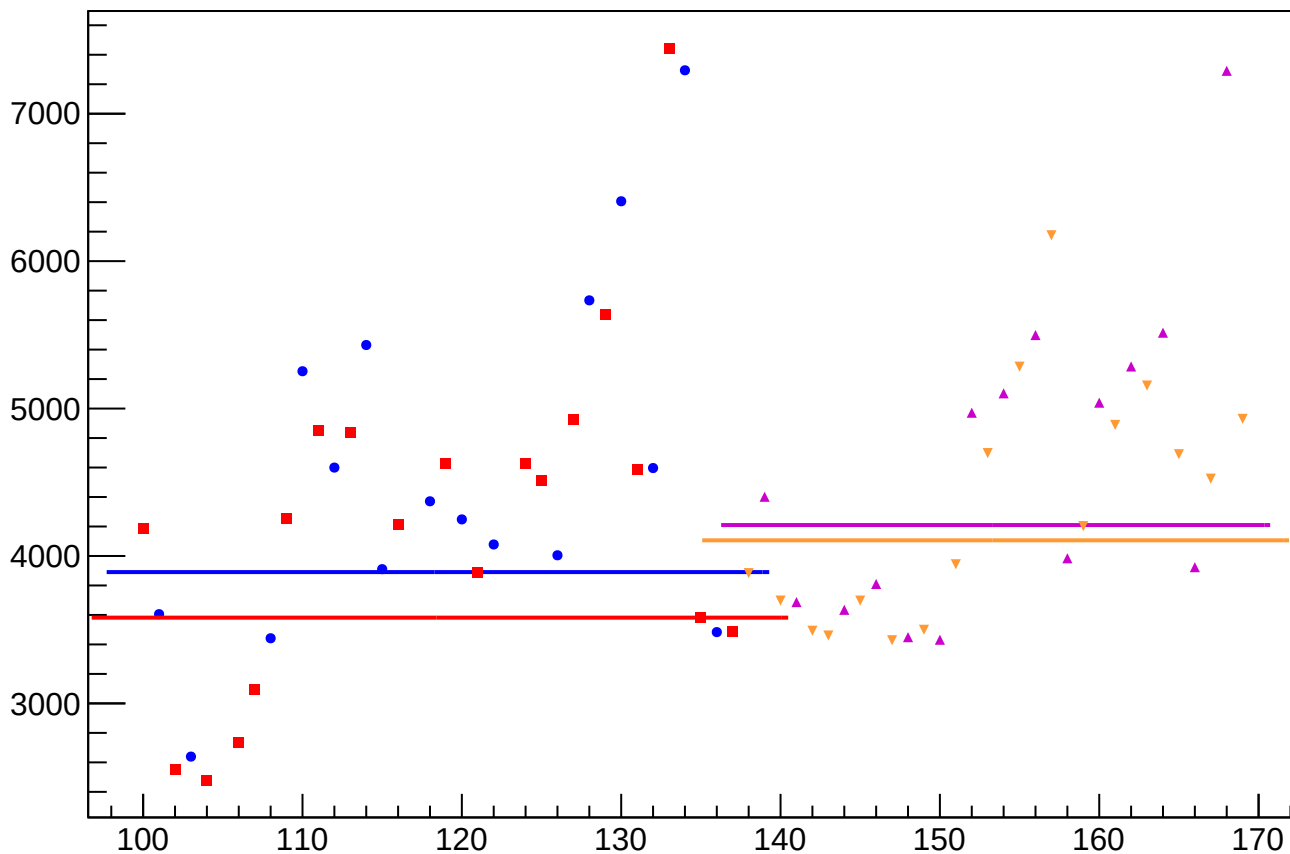
Right: 763.326+/-1011.192 χ^2/NDF : 28.6/34

In: -203.233+/-947.291 χ^2/NDF : 25.0/30

Out: -579.902+/-878.372 χ^2/NDF : 33.6/35

All: -405.767+/-644.091 χ^2/NDF : 58.7/66

asym_atr_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3890.708 $\pm$ 1.059 χ^2 /NDF: 878418.2/15

Left Out: 4106.165 $\pm$ 0.809 χ^2 /NDF: 722978.3/16

Right Out: 3581.780 $\pm$ 0.969 χ^2 /NDF: 1221855.2/18

Left In: 4209.820 $\pm$ 0.865 χ^2 /NDF: 956736.0/14

Left: 4154.541 $\pm$ 0.591 χ^2 /NDF: 1687375.9/31

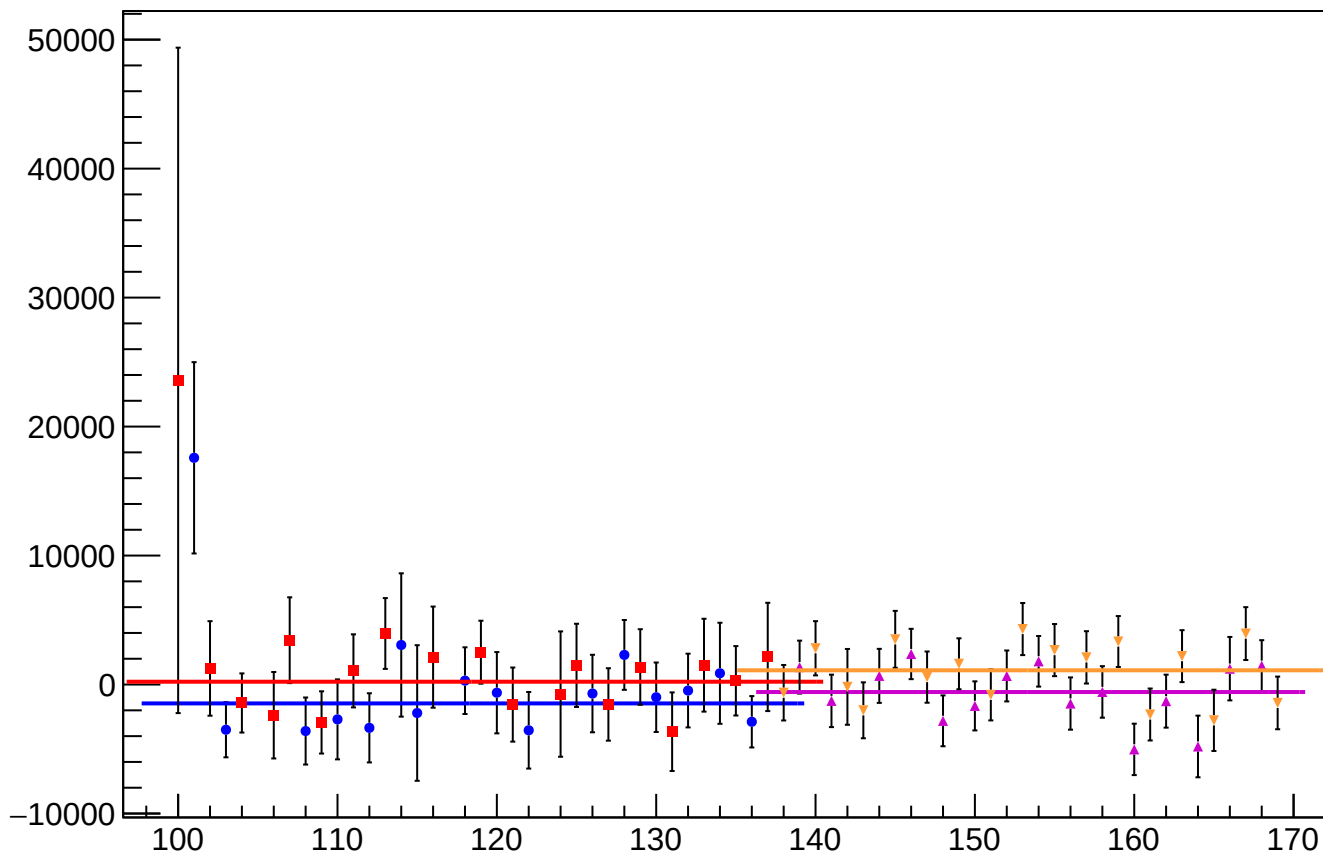
Right: 3722.609 $\pm$ 0.715 χ^2 /NDF: 2146577.5/34

In: 4082.153 $\pm$ 0.670 χ^2 /NDF: 1889627.8/30

Out: 3890.863 $\pm$ 0.621 χ^2 /NDF: 2117336.3/35

All: 3979.297 $\pm$ 0.455 χ^2 /NDF: 4050815.7/66

eigen_dit_asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -1462.646 $\pm$ 728.274 χ^2/NDF : 13.6/15

Left Out: 1104.209 $\pm$ 507.786 χ^2/NDF : 19.7/16

Right Out: 219.720 $\pm$ 708.852 χ^2/NDF : 10.8/18

Left In: -580.697 $\pm$ 527.191 χ^2/NDF : 17.1/14

Left: 293.336 $\pm$ 365.727 χ^2/NDF : 42.2/31

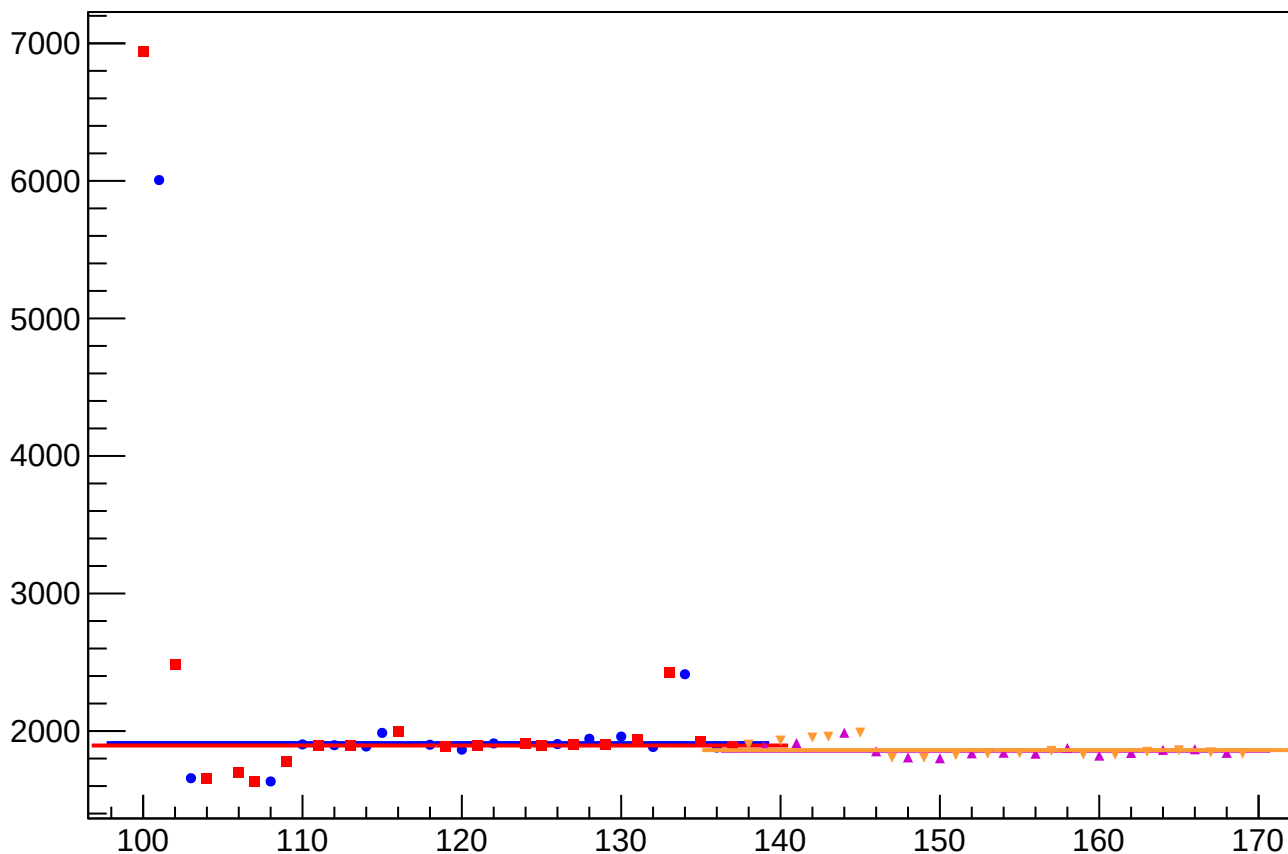
Right: -598.730 $\pm$ 507.962 χ^2/NDF : 27.1/34

In: -883.946 $\pm$ 427.044 χ^2/NDF : 31.7/30

Out: 804.252 $\pm$ 412.799 χ^2/NDF : 31.6/35

All: -11.220 $\pm$ 296.801 χ^2/NDF : 71.3/66

eigen_dit_asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 1912.378+/-0.515 χ^2/NDF : 696220.1/15

Left Out: 1861.317+/-0.359 χ^2/NDF : 21441.4/16

Right Out: 1894.765+/-0.501 χ^2/NDF : 219781.5/18

Left In: 1856.833+/-0.373 χ^2/NDF : 14320.6/14

Left: 1859.159+/-0.259 χ^2/NDF : 35837.0/31

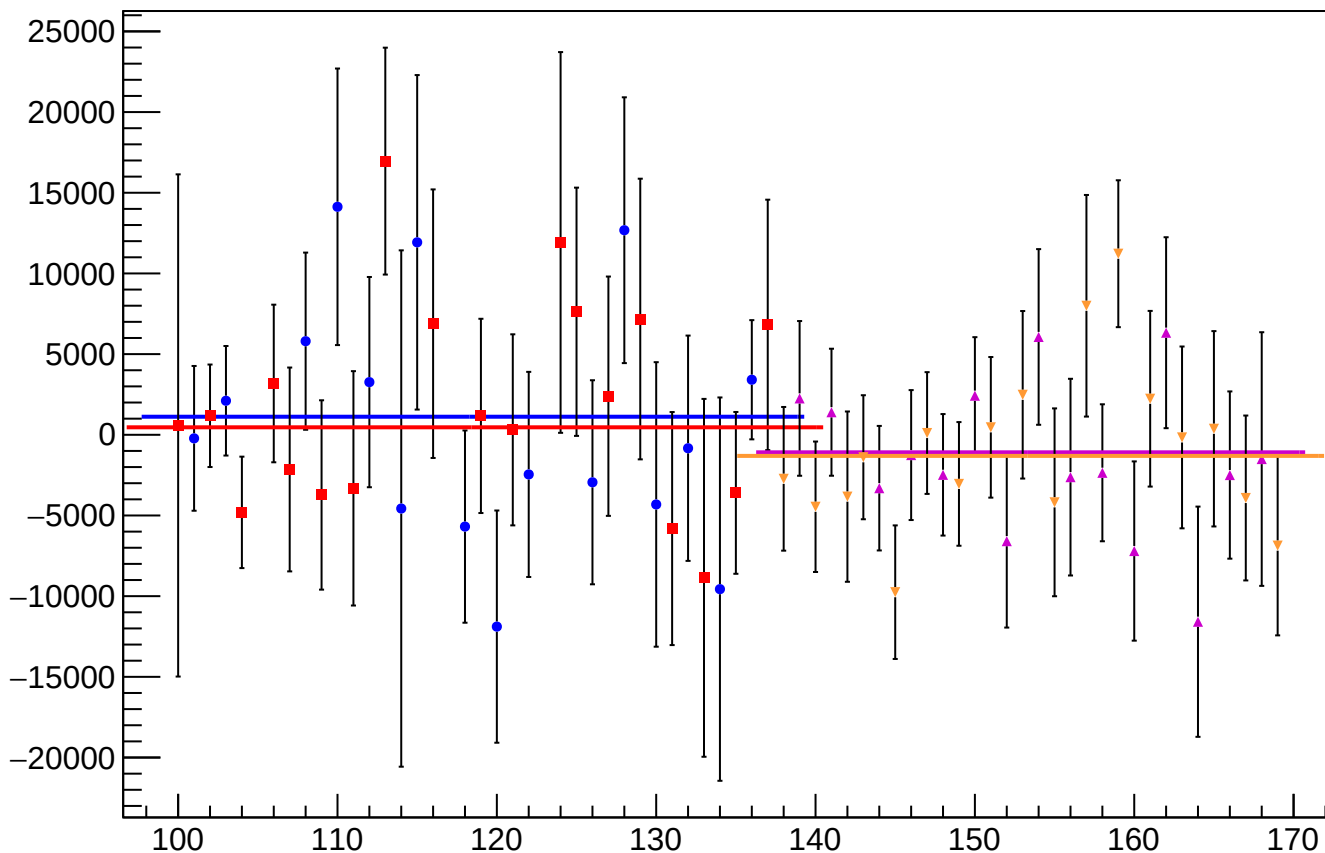
Right: 1903.324+/-0.359 χ^2/NDF : 916602.9/34

In: 1875.931+/-0.302 χ^2/NDF : 718174.7/30

Out: 1872.676+/-0.292 χ^2/NDF : 244169.9/35

All: 1874.248+/-0.210 χ^2/NDF : 962404.7/66

asym_atr_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1120.159+/-1497.669 χ^2/NDF : 13.5/15

Left Out: -1307.321+/-1144.108 χ^2/NDF :17.6/16

Right Out: 464.367+/-1370.817 χ^2/NDF : 15.0/18

Left In: -1085.755+/-1223.020 χ^2/NDF :10.2/14

Left: -1203.916+/-835.512 χ^2/NDF : 27.9/31

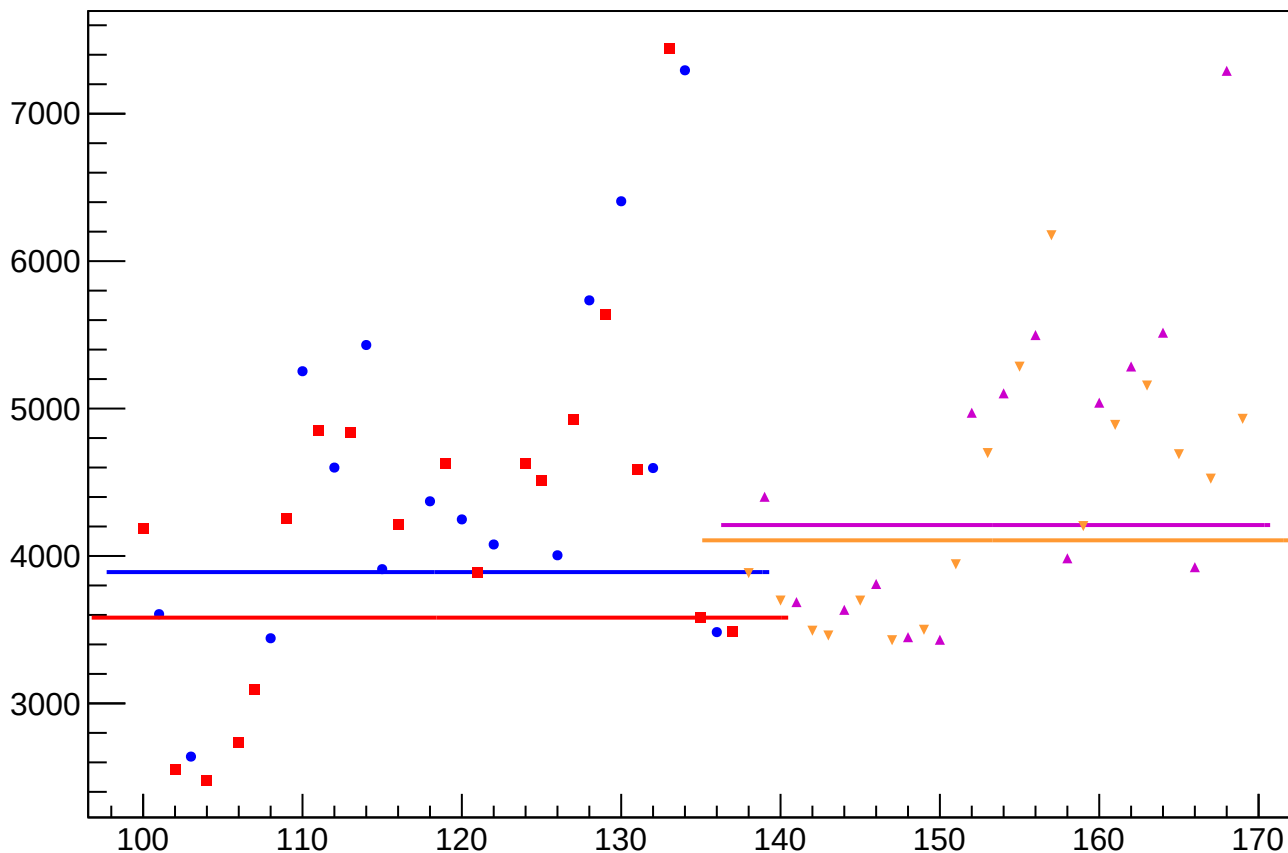
Right: 763.319+/-1011.191 χ^2/NDF : 28.6/34

In: -203.235+/-947.292 χ^2/NDF :25.0/30

Out: -579.899+/-878.373 χ^2/NDF :33.6/35

All: -405.766+/-644.091 χ^2/NDF : 58.7/66

asym_atr_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3890.705+/-1.059 χ^2/NDF : 878409.2/15

Left Out: 4106.172+/-0.809 χ^2/NDF : 722978.9/16

Right Out: 3581.777+/-0.969 χ^2/NDF : 1221846.6/18

Left In: 4209.827+/-0.865 χ^2/NDF : 956737.8/14

Left: 4154.548+/-0.591 χ^2/NDF : 1687378.3/31

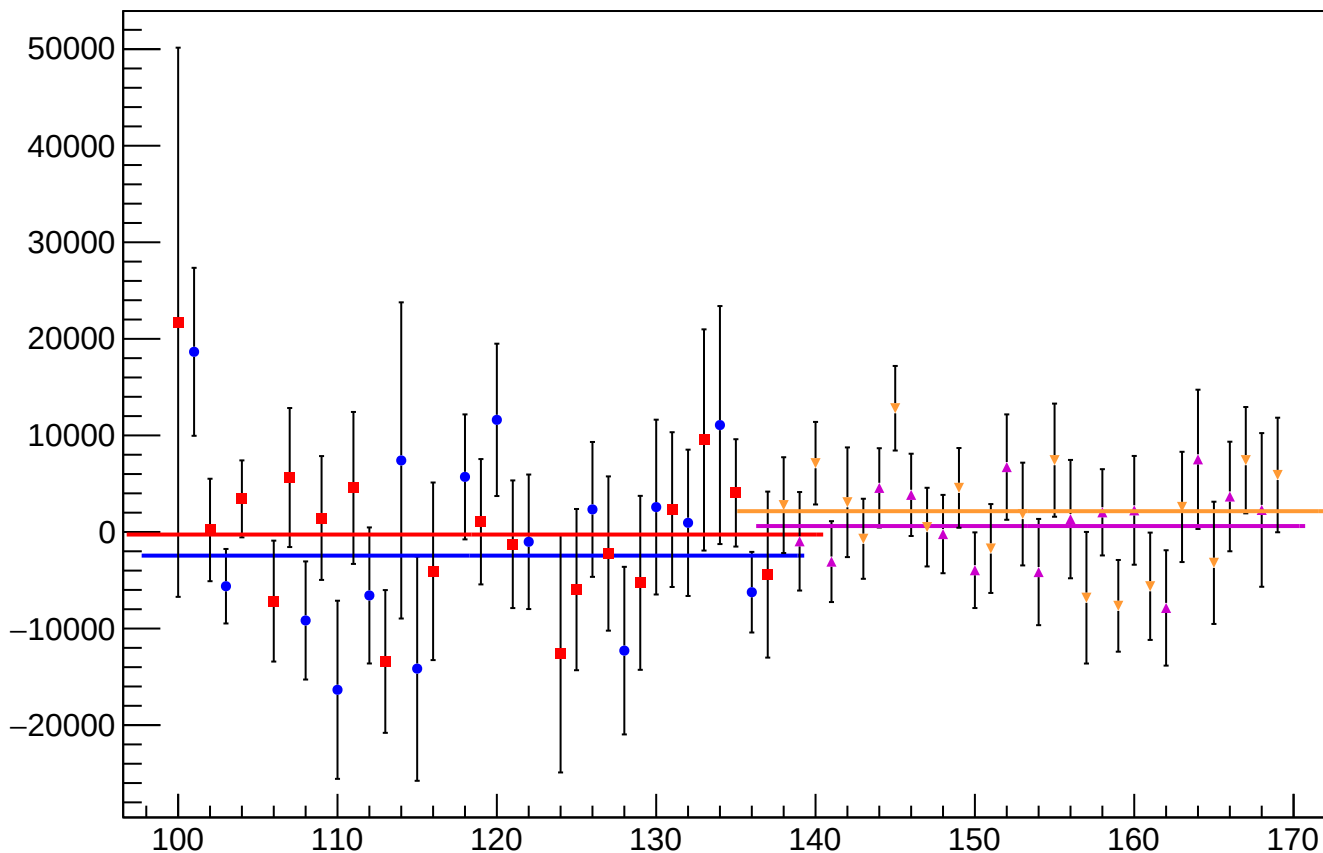
Right: 3722.606+/-0.715 χ^2/NDF : 2146560.1/34

In: 4082.156+/-0.670 χ^2/NDF : 1889623.8/30

Out: 3890.865+/-0.621 χ^2/NDF : 2117334.5/35

All: 3979.300+/-0.455 χ^2/NDF : 4050810.1/66

asym_atr_dd_mean vs Slug, Sign Corrected



Right In: -2448.262 $\pm$ 1719.694 χ^2 /NDF: 20.9/15

Left Out: 2153.237 $\pm$ 1210.352 χ^2 /NDF:19.8/16

Right Out: -265.886 $\pm$ 1622.574 χ^2 /NDF: 10.7/18

Left In: 613.860 $\pm$ 1285.842 χ^2 /NDF:9.2/14

Left: 1430.060 $\pm$ 881.328 χ^2 /NDF: 29.8/31

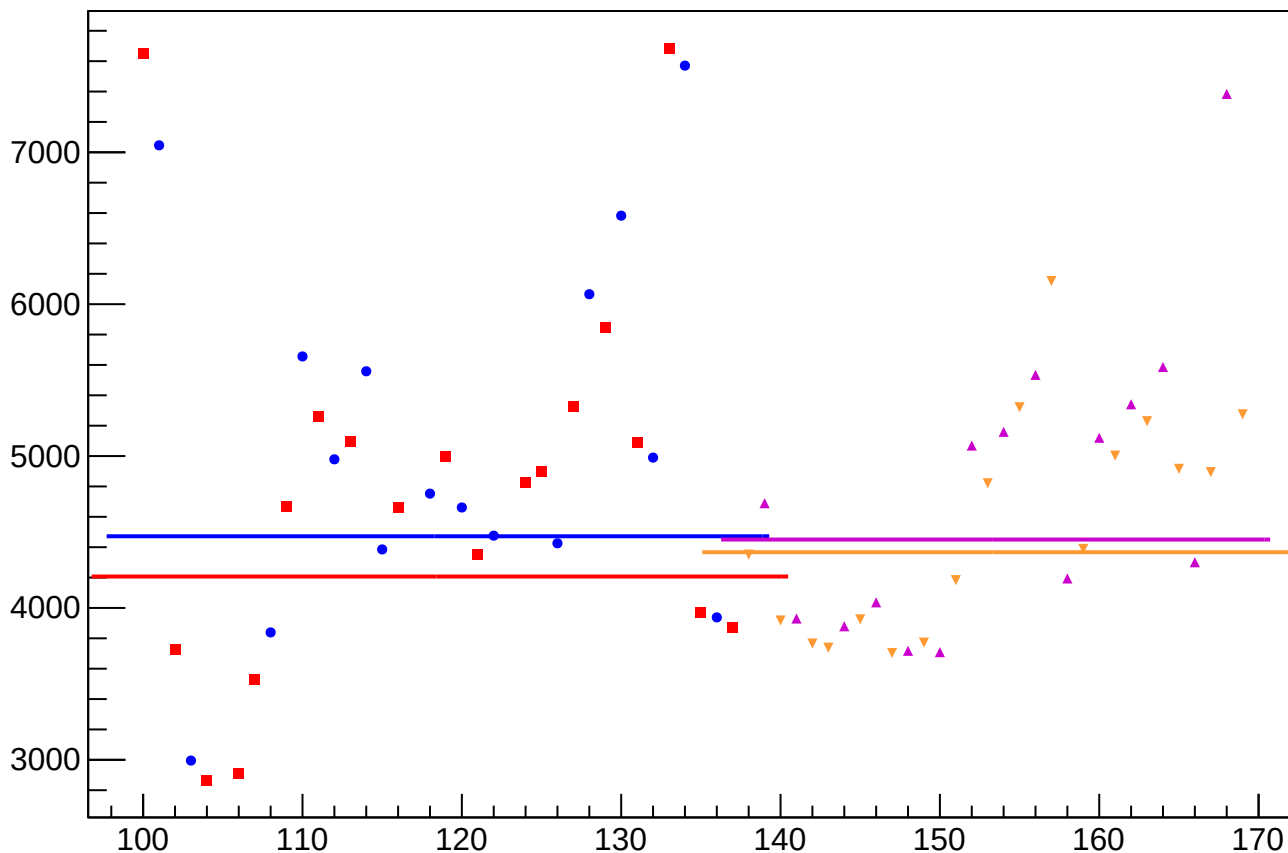
Right: -1293.712 $\pm$ 1180.174 χ^2 /NDF: 32.4/34

In: -484.203 $\pm$ 1029.802 χ^2 /NDF:32.1/30

Out: 1288.386 $\pm$ 970.166 χ^2 /NDF:31.9/35

All: 454.900 $\pm$ 706.153 χ^2 /NDF: 65.6/66

asym_atr_dd_rms vs Slug, Sign Corrected



Right In: 4471.904+/-1.216 χ^2/NDF : 891678.4/15

Left Out: 4366.970+/-0.856 χ^2/NDF : 565899.3/16

Right Out: 4206.907+/-1.138 χ^2/NDF : 846525.2/18

Left In: 4450.296+/-0.909 χ^2/NDF : 753405.4/14

Left: 4406.115+/-0.623 χ^2/NDF : 1323757.9/31

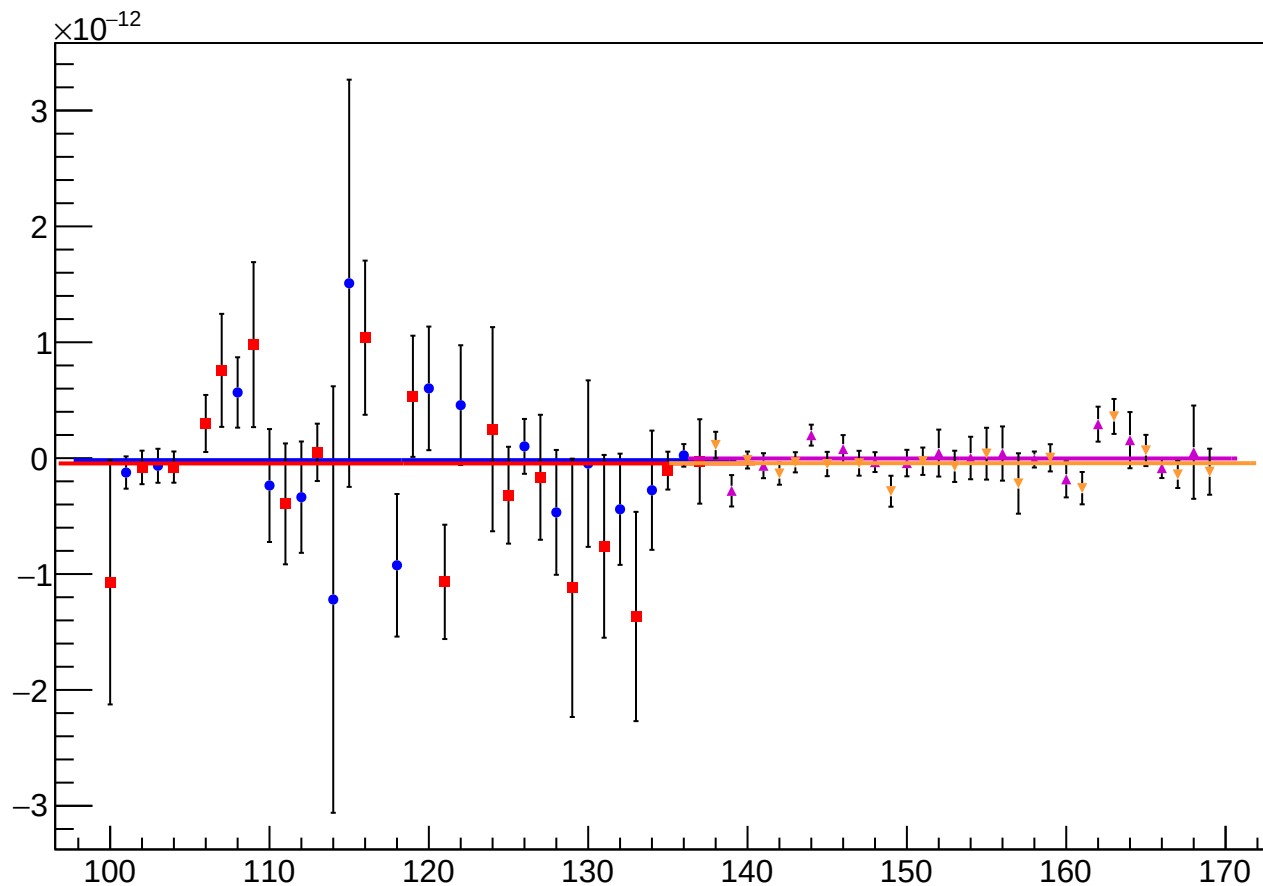
Right: 4330.631+/-0.831 χ^2/NDF : 1763521.7/34

In: 4458.044+/-0.728 χ^2/NDF : 1645286.4/30

Out: 4309.143+/-0.684 χ^2/NDF : 1425061.1/35

All: 4378.939+/-0.499 χ^2/NDF : 3092561.5/66

asym_atr_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 12.8/15

Left Out: -0.000+/-0.000 χ^2 /NDF:18.0/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 21.2/18

Left In: -0.000+/-0.000 χ^2 /NDF:16.9/14

Left: -0.000+/-0.000 χ^2 /NDF: 35.9/31

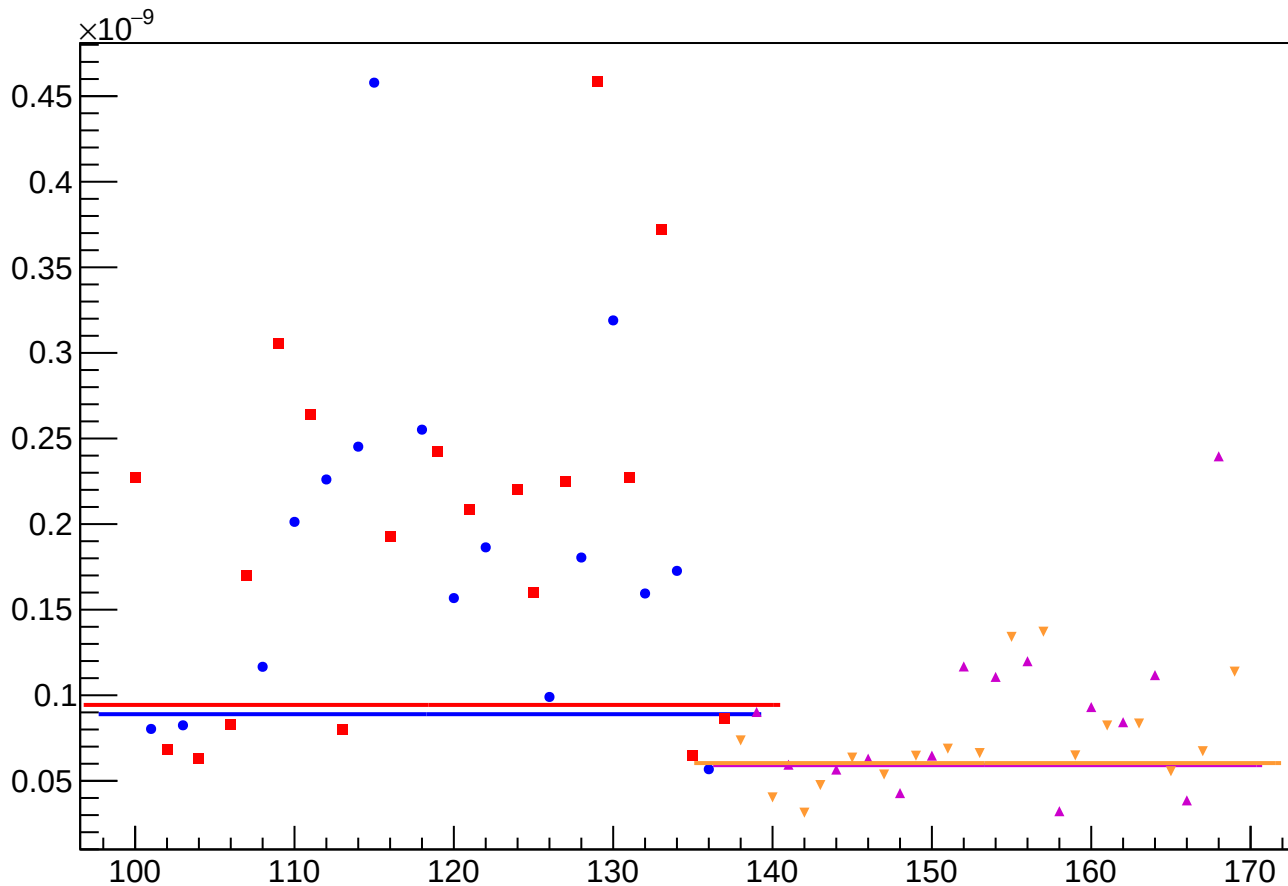
Right: -0.000+/-0.000 χ^2 /NDF: 34.1/34

In: -0.000+/-0.000 χ^2 /NDF:29.7/30

Out: -0.000+/-0.000 χ^2 /NDF:39.2/35

All: -0.000+/-0.000 χ^2 /NDF: 69.9/66

asym_atr_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1230222.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1071171.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1695078.0/18

Left In: 0.000+/-0.000 χ^2/NDF :1705515.1/14

Left: 0.000+/-0.000 χ^2/NDF : 2778367.2/31

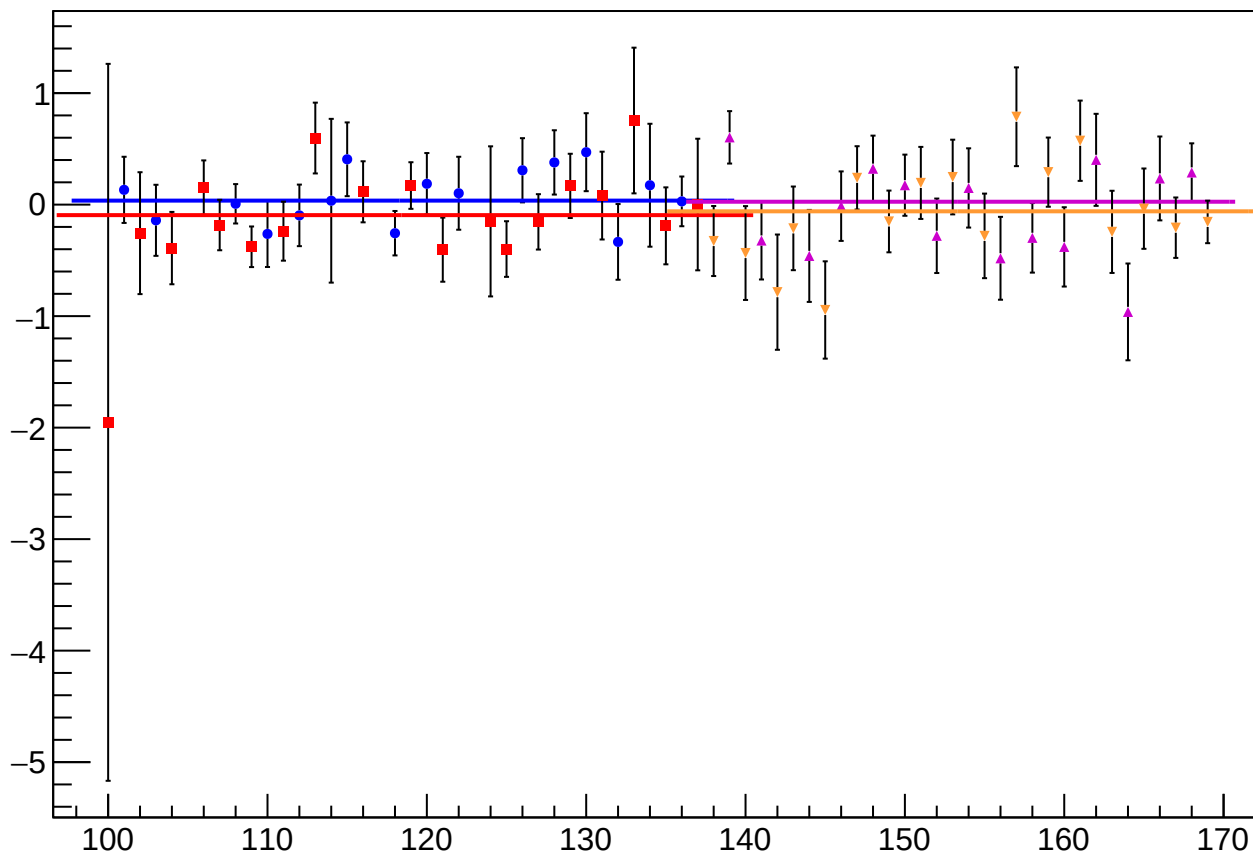
Right: 0.000+/-0.000 χ^2/NDF : 2932262.7/34

In: 0.000+/-0.000 χ^2/NDF :3312123.8/30

Out: 0.000+/-0.000 χ^2/NDF :3189302.0/35

All: 0.000+/-0.000 χ^2/NDF : 6501658.7/66

asym_atr_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.036 ± 0.071 $\chi^2/\text{NDF}: 10.5/15$

Left Out: -0.060 ± 0.079 $\chi^2/\text{NDF}: 19.6/16$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.026 ± 0.084 $\chi^2/\text{NDF}: 22.2/14$

Left: -0.020 ± 0.057 $\chi^2/\text{NDF}: 42.4/31$

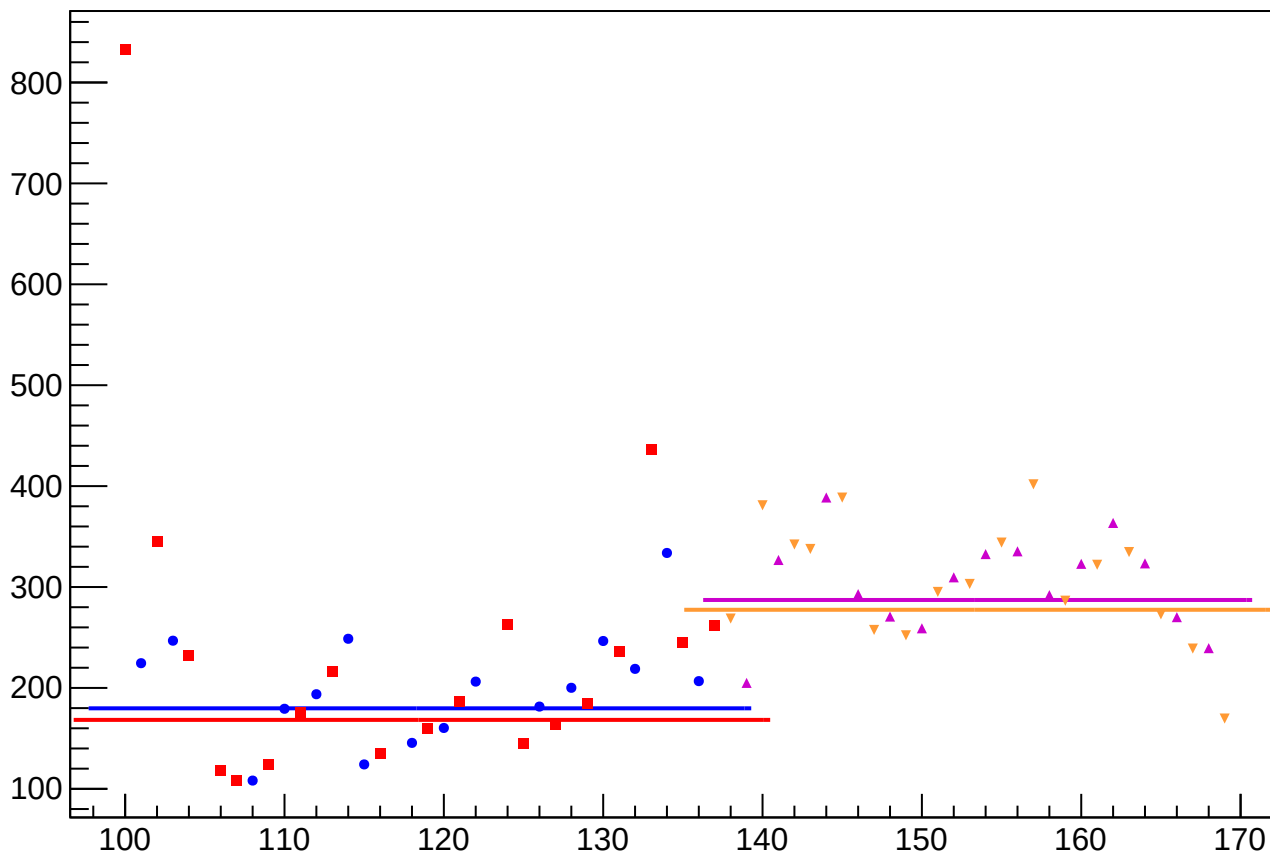
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.032 ± 0.054 $\chi^2/\text{NDF}: 32.8/30$

Out: -0.080 ± 0.051 $\chi^2/\text{NDF}: 37.4/35$

All: -0.027 ± 0.037 $\chi^2/\text{NDF}: 72.4/66$

asym_atr_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 179.796 $\pm$ 0.050 χ^2 /NDF: 918536.0/15

Left Out: 277.455 $\pm$ 0.056 χ^2 /NDF:1359893.5/16

Right Out: 168.334 $\pm$ 0.048 χ^2 /NDF: 1409290.2/18

Left In: 287.164 $\pm$ 0.059 χ^2 /NDF:668571.8/14

Left: 281.992 $\pm$ 0.041 χ^2 /NDF: 2042757.8/31

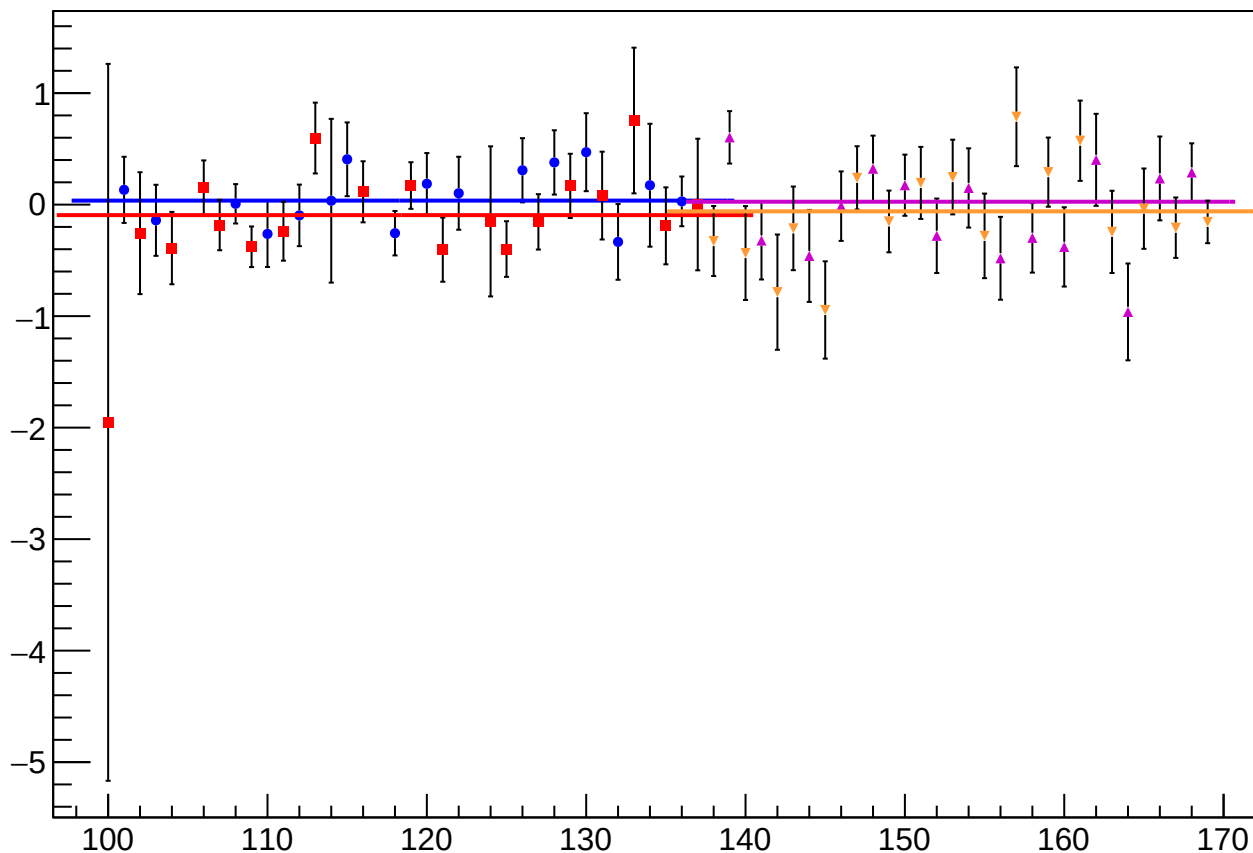
Right: 173.821 $\pm$ 0.035 χ^2 /NDF: 2355323.0/34

In: 224.336 $\pm$ 0.038 χ^2 /NDF:3507110.1/30

Out: 214.819 $\pm$ 0.036 χ^2 /NDF:4986956.2/35

All: 219.329 $\pm$ 0.026 χ^2 /NDF: 8526763.0/66

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.036 ± 0.071 $\chi^2/\text{NDF}: 10.5/15$

Left Out: -0.060 ± 0.079 $\chi^2/\text{NDF}: 19.6/16$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.026 ± 0.084 $\chi^2/\text{NDF}: 22.2/14$

Left: -0.020 ± 0.057 $\chi^2/\text{NDF}: 42.4/31$

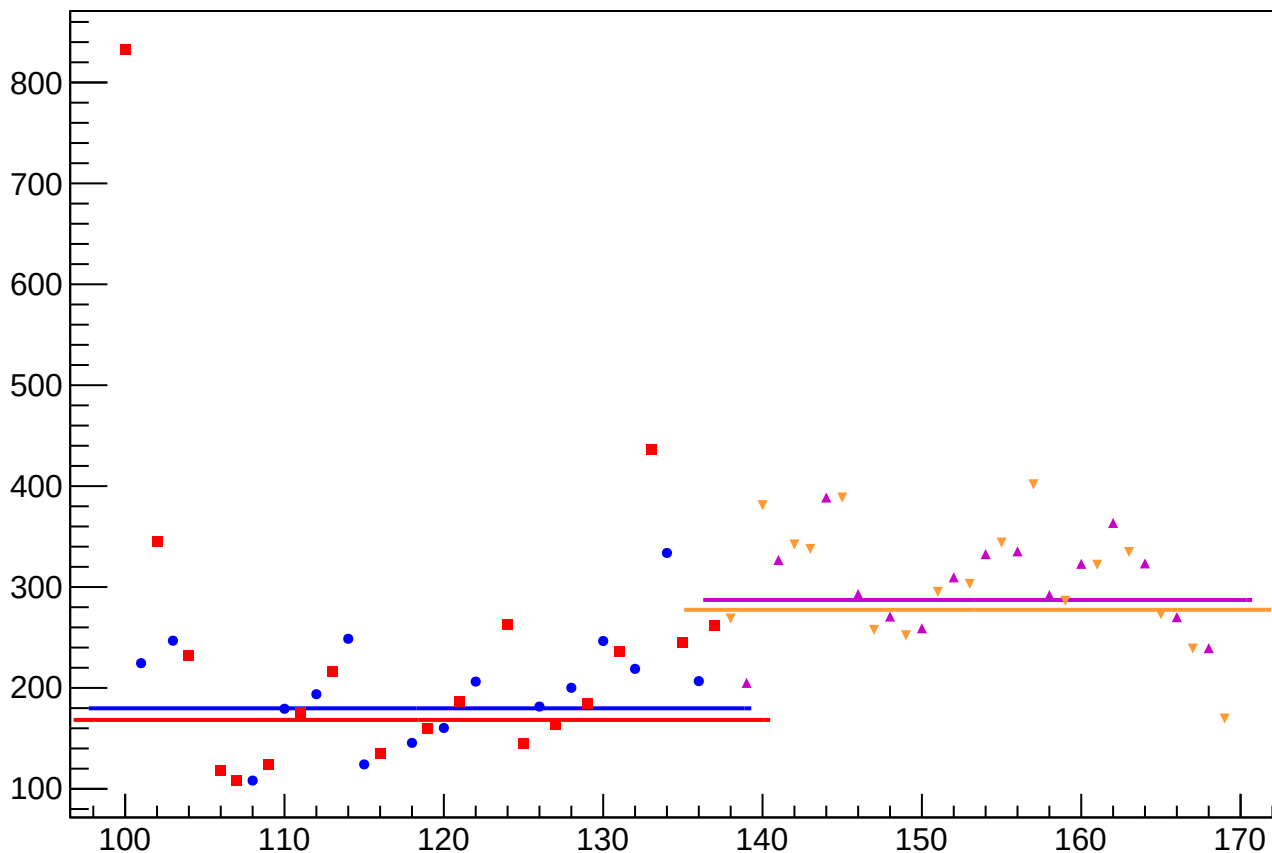
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.032 ± 0.054 $\chi^2/\text{NDF}: 32.8/30$

Out: -0.080 ± 0.051 $\chi^2/\text{NDF}: 37.4/35$

All: -0.027 ± 0.037 $\chi^2/\text{NDF}: 72.4/66$

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 179.796+/-0.050 χ^2/NDF : 918536.0/15

Left Out: 277.455+/-0.056 χ^2/NDF :1359893.5/16

Right Out: 168.334+/-0.048 χ^2/NDF : 1409290.2/18

Left In: 287.164+/-0.059 χ^2/NDF :668571.8/14

Left: 281.992+/-0.041 χ^2/NDF : 2042757.8/31

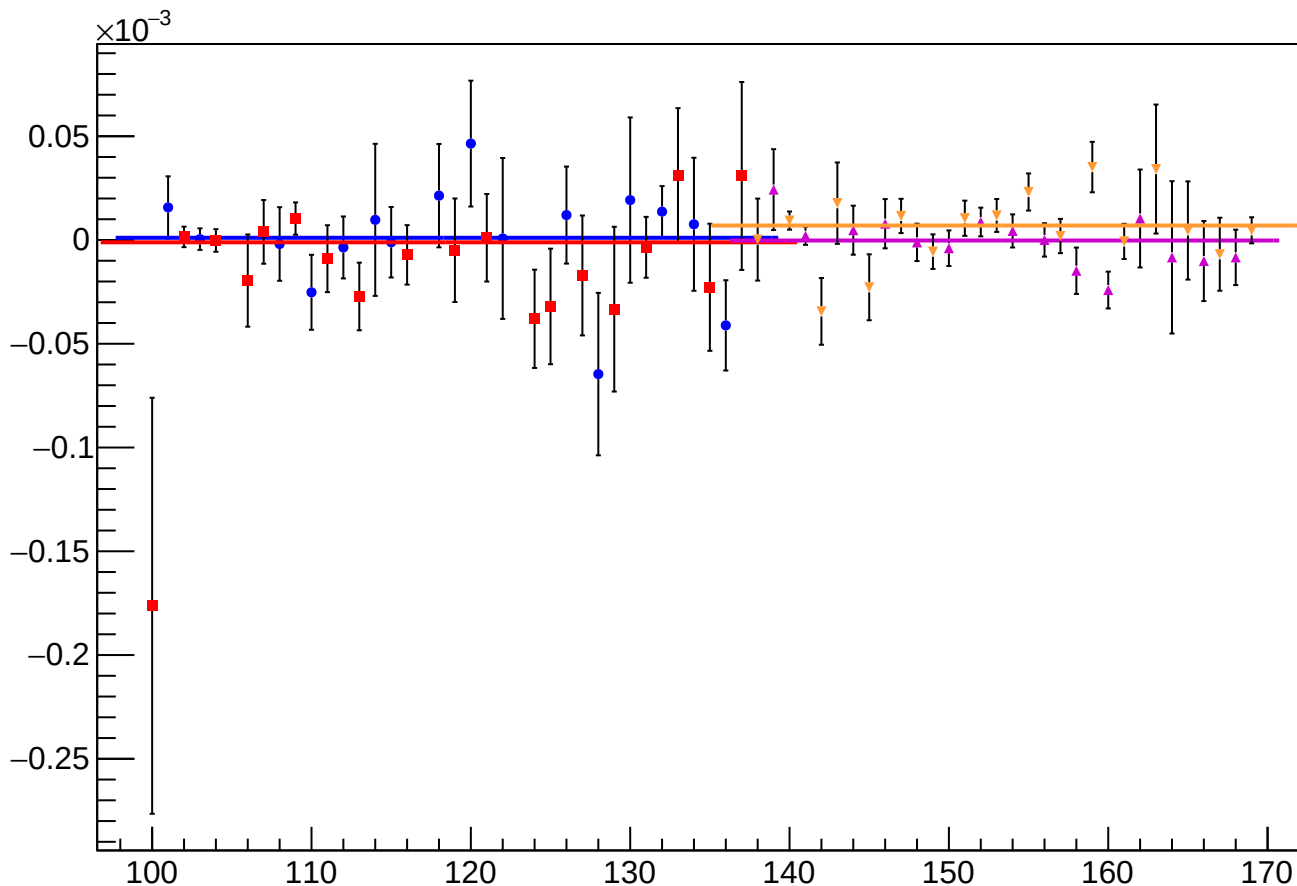
Right: 173.821+/-0.035 χ^2/NDF : 2355323.0/34

In: 224.336+/-0.038 χ^2/NDF :3507110.1/30

Out: 214.819+/-0.036 χ^2/NDF :4986956.2/35

All: 219.329+/-0.026 χ^2/NDF : 8526763.0/66

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 25.3/16

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 14.5/14

Left: 0.000+/-0.000 χ^2/NDF : 44.8/31

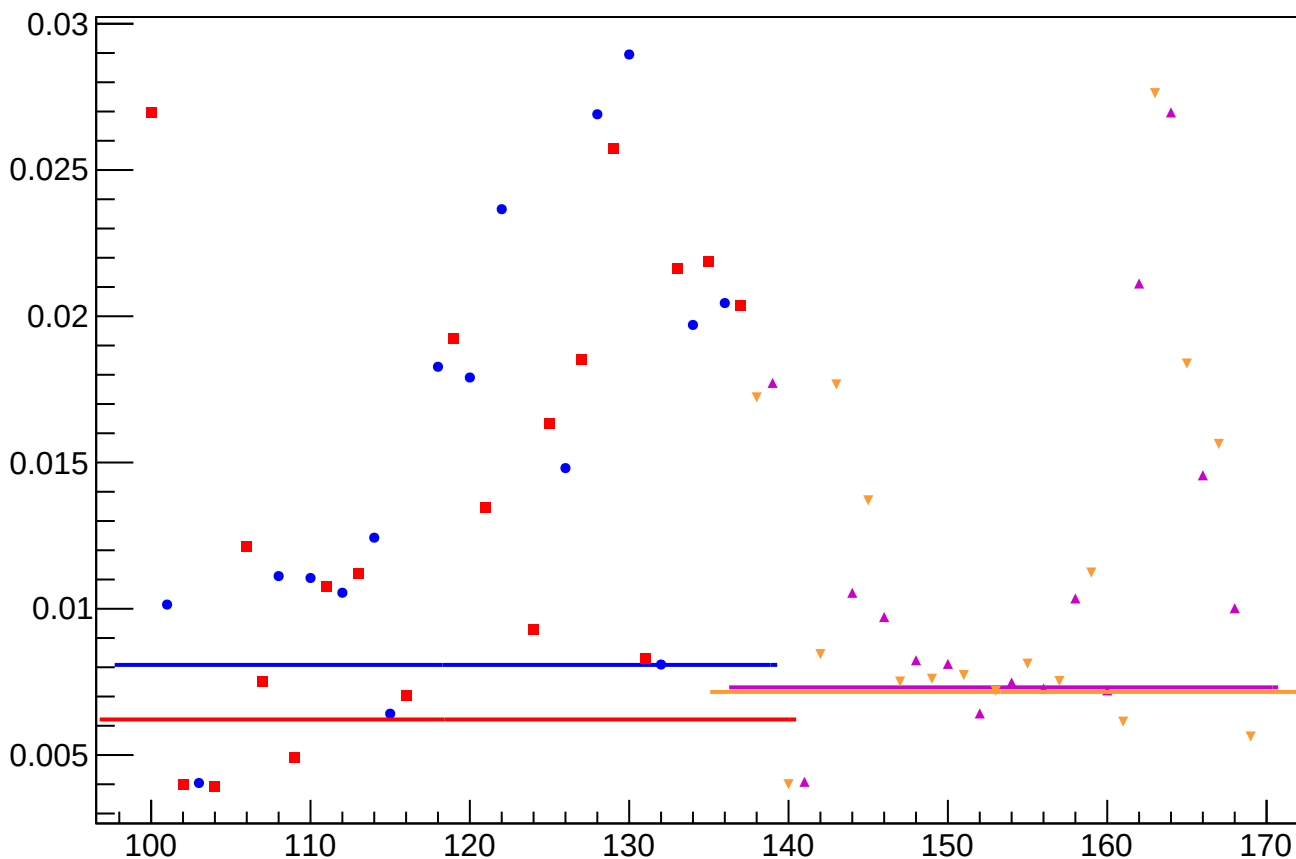
Right: -0.000+/-0.000 χ^2/NDF : 30.5/34

In: 0.000+/-0.000 χ^2/NDF : 28.9/30

Out: 0.000+/-0.000 χ^2/NDF : 46.4/35

All: 0.000+/-0.000 χ^2/NDF : 77.3/66

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000

χ^2/NDF : 4413462.8/15

Left Out: 0.007+/-0.000

χ^2/NDF : 4690868.8/16

Right Out: 0.006+/-0.000

χ^2/NDF : 4560988.3/18

Left In: 0.007+/-0.000

χ^2/NDF : 3748875.8/14

Left: 0.007+/-0.000

χ^2/NDF : 8444389.0/31

Right: 0.007+/-0.000

χ^2/NDF : 9295058.4/34

In: 0.008+/-0.000

χ^2/NDF : 8223183.0/30

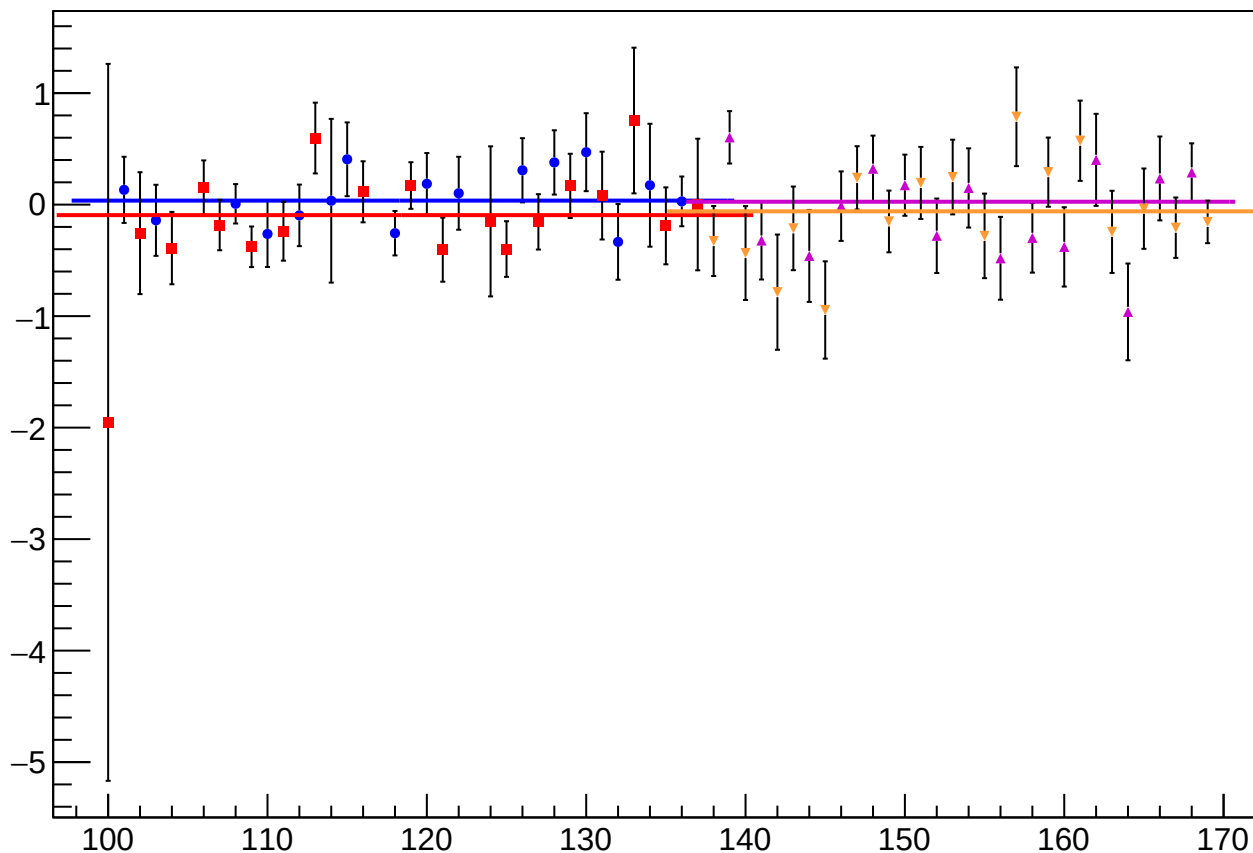
Out: 0.007+/-0.000

χ^2/NDF : 9390113.4/35

All: 0.007+/-0.000

χ^2/NDF : 17768618.5/66

asym_atr_dd_eigen_dit_vs_Slug, Sign Corrected



Right In: 0.036 ± 0.071 $\chi^2/\text{NDF}: 10.5/15$

Left Out: -0.060 ± 0.079 $\chi^2/\text{NDF}: 19.6/16$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.026 ± 0.084 $\chi^2/\text{NDF}: 22.2/14$

Left: -0.020 ± 0.057 $\chi^2/\text{NDF}: 42.4/31$

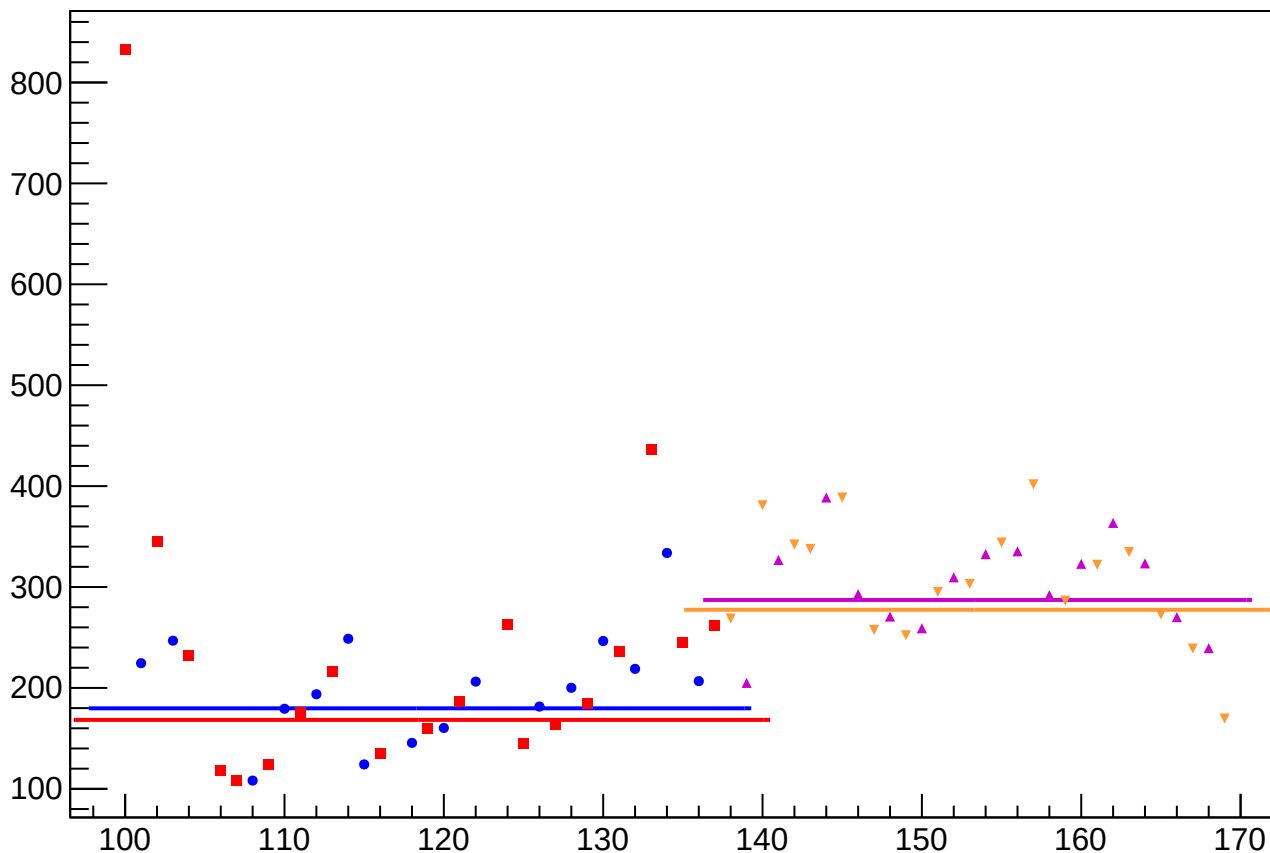
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.032 ± 0.054 $\chi^2/\text{NDF}: 32.8/30$

Out: -0.080 ± 0.051 $\chi^2/\text{NDF}: 37.4/35$

All: -0.027 ± 0.037 $\chi^2/\text{NDF}: 72.4/66$

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 179.793+/-0.050 χ^2/NDF : 918583.7/15

Left Out: 277.458+/-0.056 χ^2/NDF :1359967.5/16

Right Out: 168.334+/-0.048 χ^2/NDF : 1409289.2/18

Left In: 287.169+/-0.059 χ^2/NDF :668547.4/14

Left: 281.996+/-0.041 χ^2/NDF : 2042813.1/31

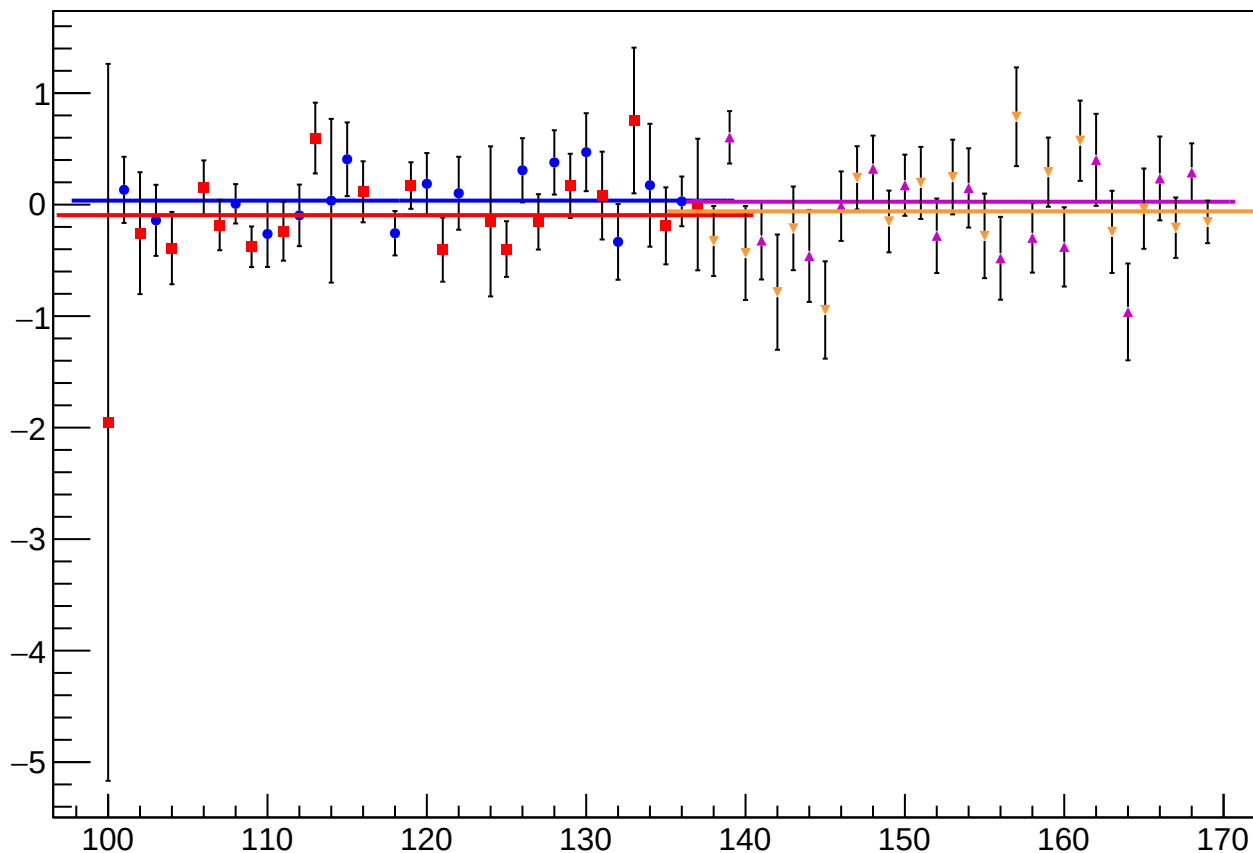
Right: 173.819+/-0.035 χ^2/NDF : 2355358.4/34

In: 224.335+/-0.038 χ^2/NDF :3507384.5/30

Out: 214.819+/-0.036 χ^2/NDF :4987125.6/35

All: 219.329+/-0.026 χ^2/NDF : 8527196.8/66

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.036 ± 0.071 $\chi^2/\text{NDF}: 10.5/15$

Left Out: -0.060 ± 0.079 $\chi^2/\text{NDF}: 19.6/16$

Right Out: -0.094 ± 0.068 $\chi^2/\text{NDF}: 17.6/18$

Left In: 0.026 ± 0.084 $\chi^2/\text{NDF}: 22.2/14$

Left: -0.020 ± 0.057 $\chi^2/\text{NDF}: 42.4/31$

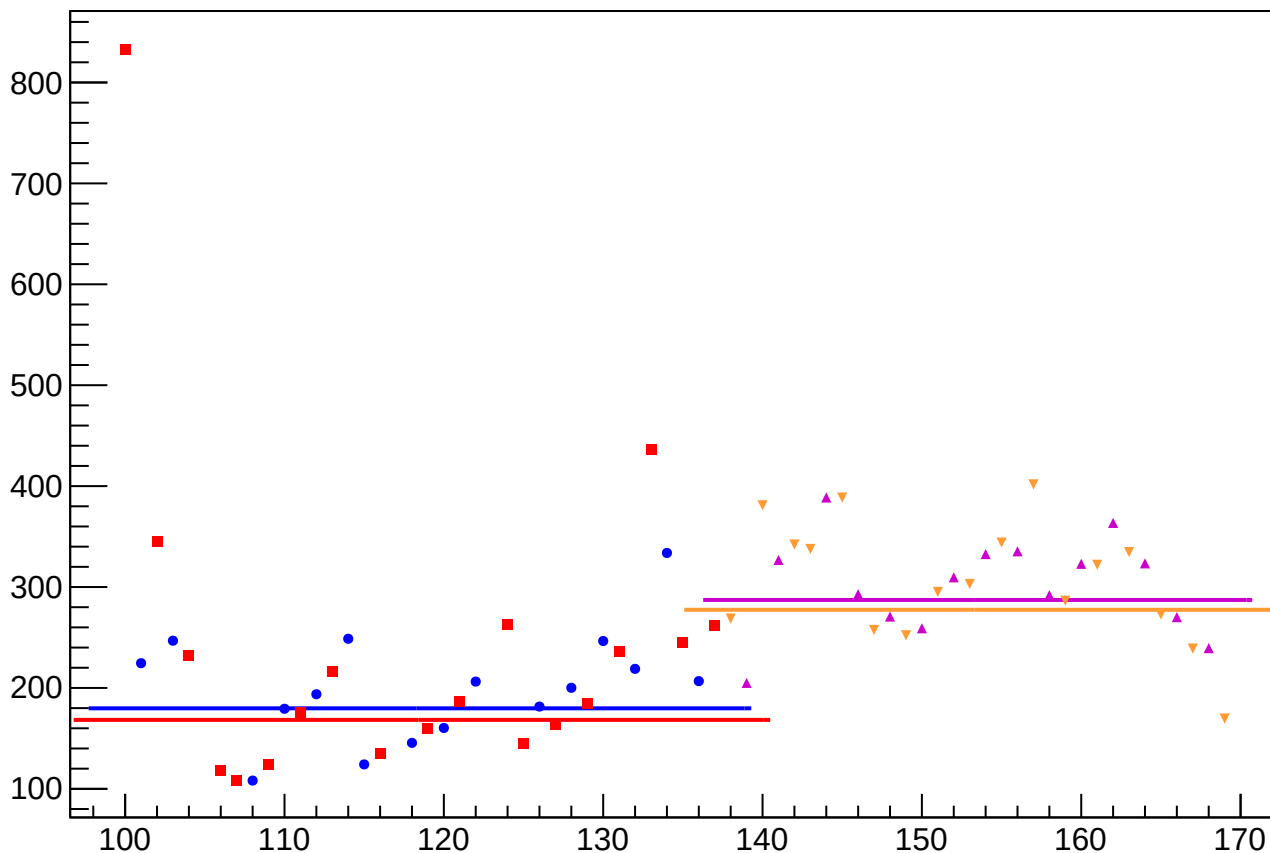
Right: -0.032 ± 0.049 $\chi^2/\text{NDF}: 29.9/34$

In: 0.032 ± 0.054 $\chi^2/\text{NDF}: 32.8/30$

Out: -0.080 ± 0.051 $\chi^2/\text{NDF}: 37.4/35$

All: -0.027 ± 0.037 $\chi^2/\text{NDF}: 72.4/66$

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 179.793+/-0.050 χ^2/NDF : 918583.7/15

Left Out: 277.458+/-0.056 χ^2/NDF :1359967.5/16

Right Out: 168.334+/-0.048 χ^2/NDF : 1409289.2/18

Left In: 287.169+/-0.059 χ^2/NDF :668547.4/14

Left: 281.996+/-0.041 χ^2/NDF : 2042813.1/31

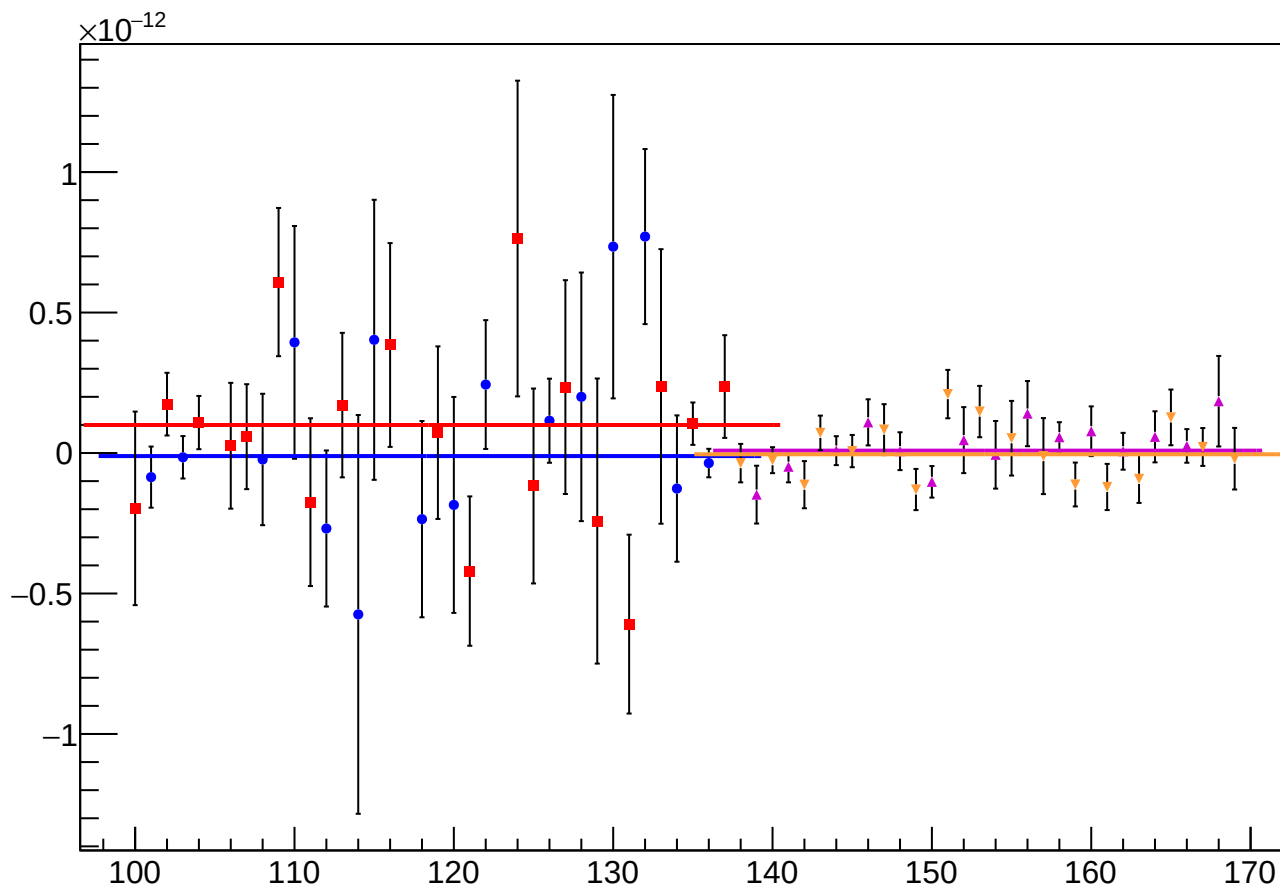
Right: 173.819+/-0.035 χ^2/NDF : 2355358.4/34

In: 224.335+/-0.038 χ^2/NDF :3507384.5/30

Out: 214.819+/-0.036 χ^2/NDF :4987125.6/35

All: 219.329+/-0.026 χ^2/NDF : 8527196.8/66

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 15.0/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 23.5/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 18.4/18

Left In: 0.000 ± 0.000 χ^2/NDF : 13.2/14

Left: 0.000 ± 0.000 χ^2/NDF : 37.0/31

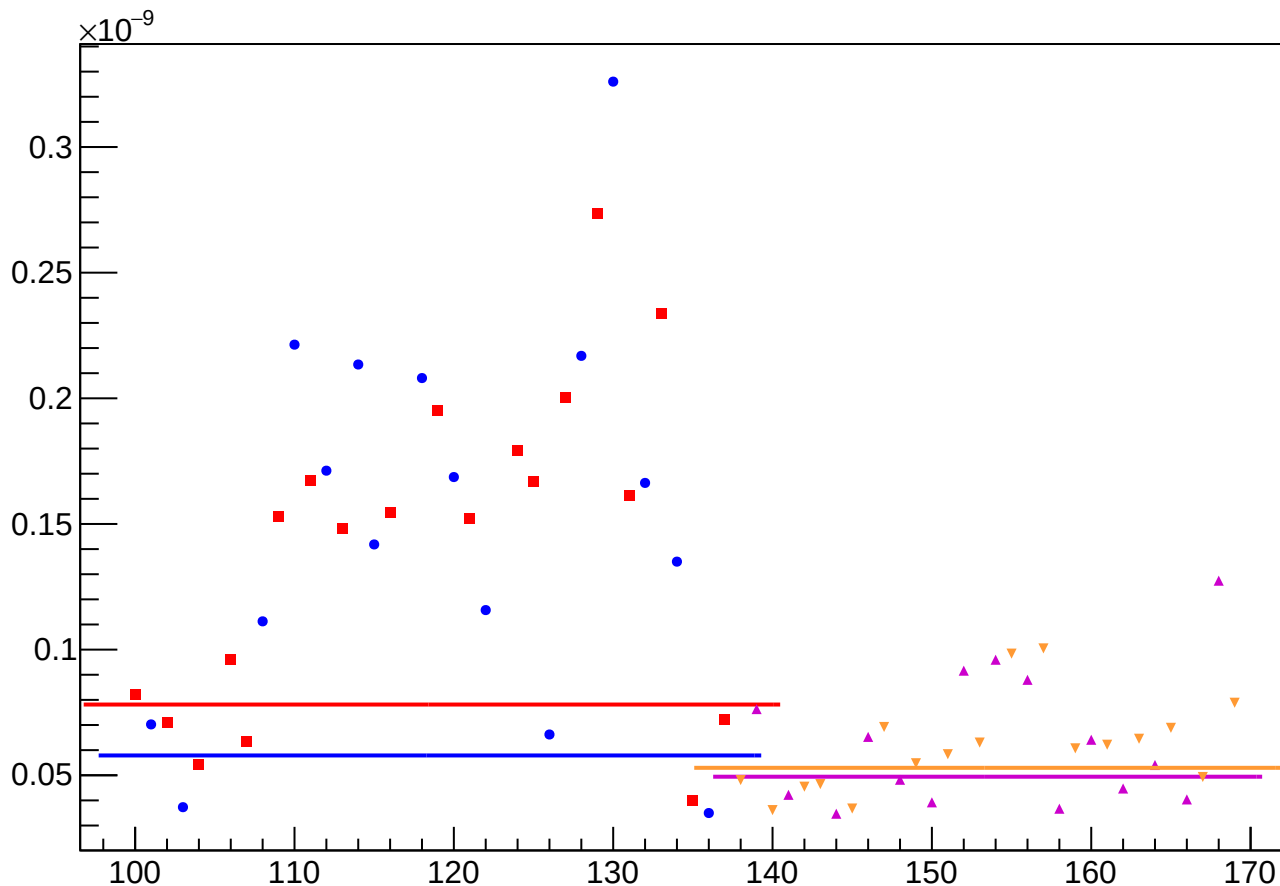
Right: 0.000 ± 0.000 χ^2/NDF : 37.5/34

In: 0.000 ± 0.000 χ^2/NDF : 28.4/30

Out: 0.000 ± 0.000 χ^2/NDF : 47.1/35

All: 0.000 ± 0.000 χ^2/NDF : 75.7/66

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3322992.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :1300775.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2732134.4/18

Left In: 0.000+/-0.000 χ^2/NDF :1952846.0/14

Left: 0.000+/-0.000 χ^2/NDF : 3289715.4/31

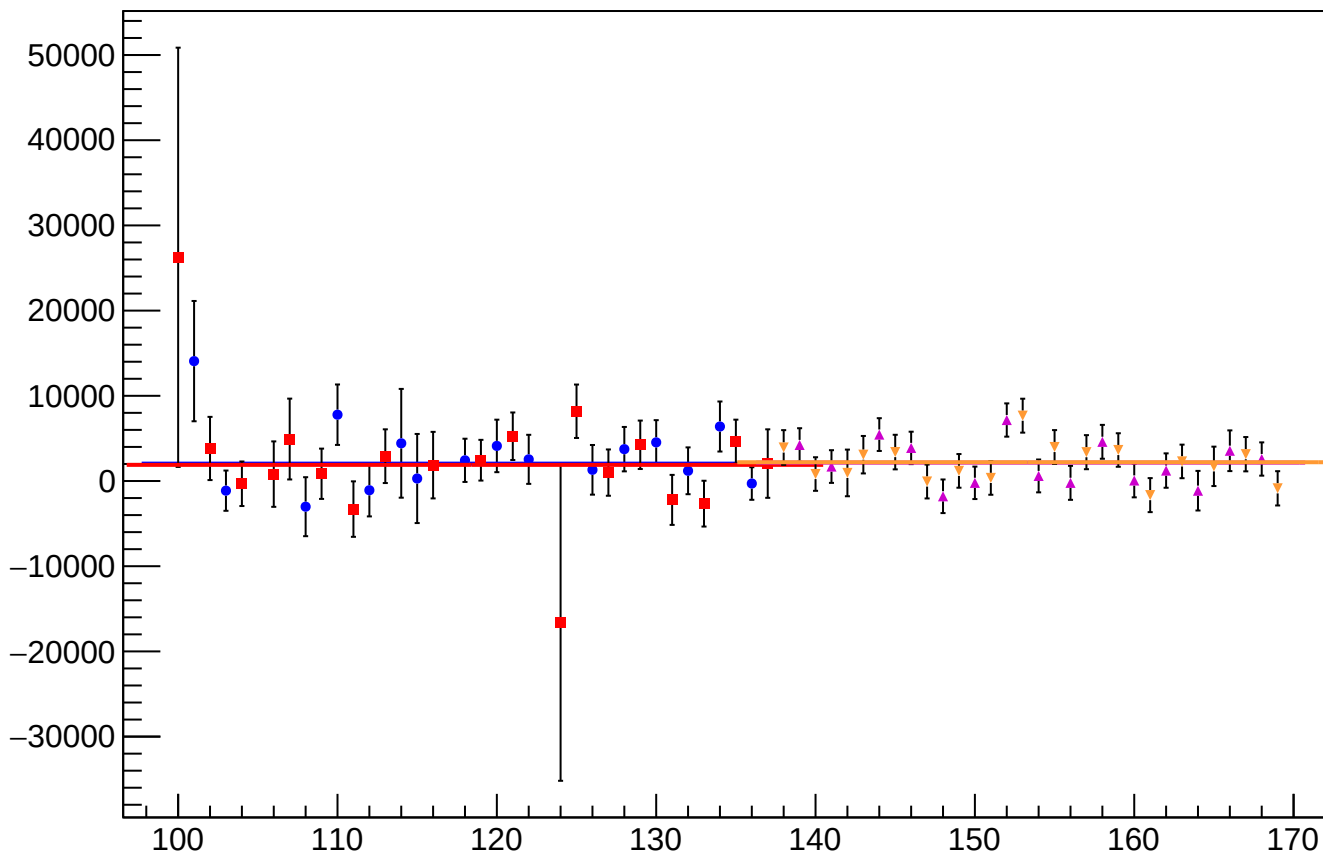
Right: 0.000+/-0.000 χ^2/NDF : 6327236.3/34

In: 0.000+/-0.000 χ^2/NDF :5365607.6/30

Out: 0.000+/-0.000 χ^2/NDF :4632054.5/35

All: 0.000+/-0.000 χ^2/NDF : 10115601.6/66

reg_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2039.211+/-736.211 χ^2/NDF : 16.4/15

Left Out: 2203.969+/-496.898 χ^2/NDF :19.9/16

Right Out: 1895.242+/-736.762 χ^2/NDF : 18.5/18

Left In: 2159.522+/-515.096 χ^2/NDF :24.4/14

Left: 2182.544+/-357.620 χ^2/NDF : 44.3/31

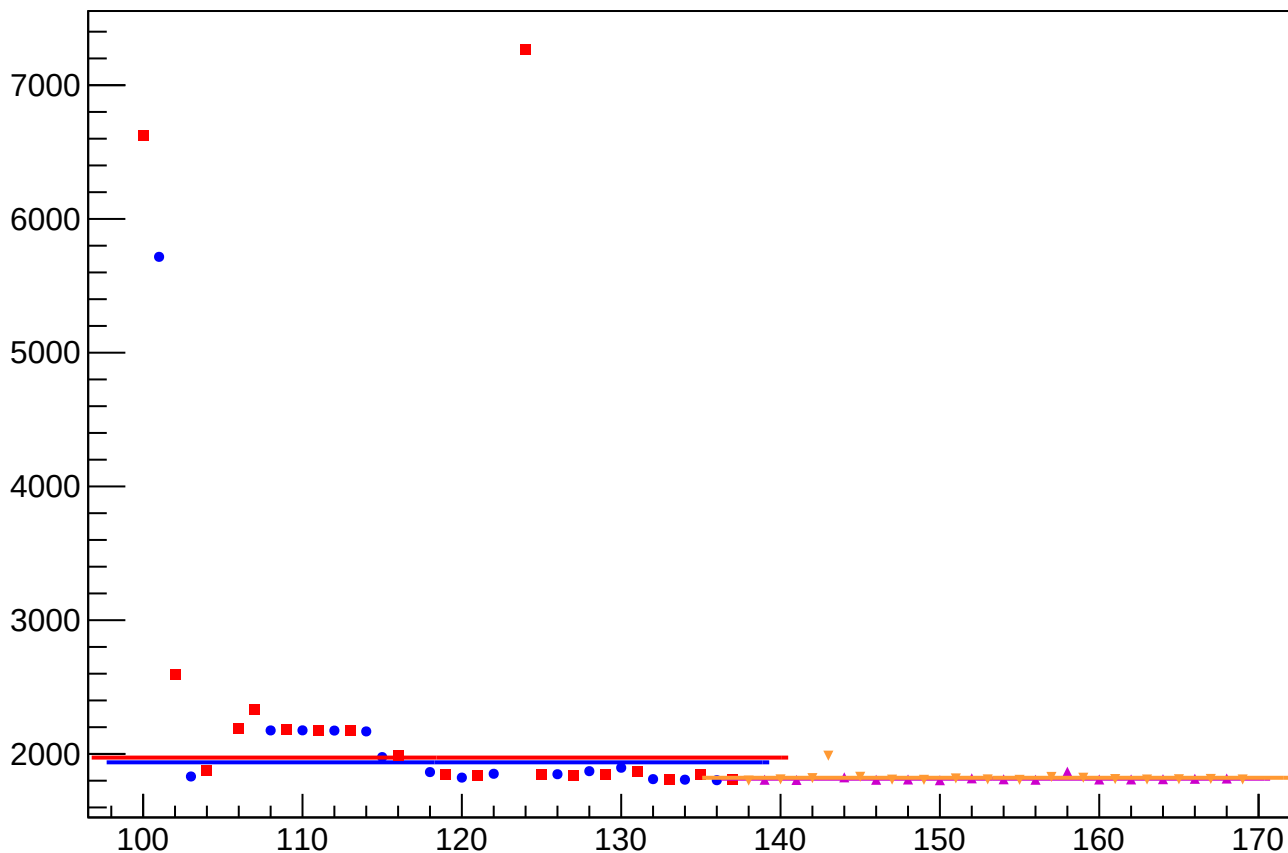
Right: 1967.281+/-520.774 χ^2/NDF : 35.0/34

In: 2119.983+/-422.051 χ^2/NDF :40.8/30

Out: 2107.445+/-411.961 χ^2/NDF :38.5/35

All: 2113.562+/-294.803 χ^2/NDF : 79.3/66

reg_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1937.251+/-0.521 χ^2 /NDF: 638092.5/15

Left Out: 1821.748+/-0.351 χ^2 /NDF:12351.6/16

Right Out: 1972.760+/-0.521 χ^2 /NDF: 377537.1/18

Left In: 1814.730+/-0.364 χ^2 /NDF:1721.6/14

Left: 1818.365+/-0.253 χ^2 /NDF: 14265.6/31

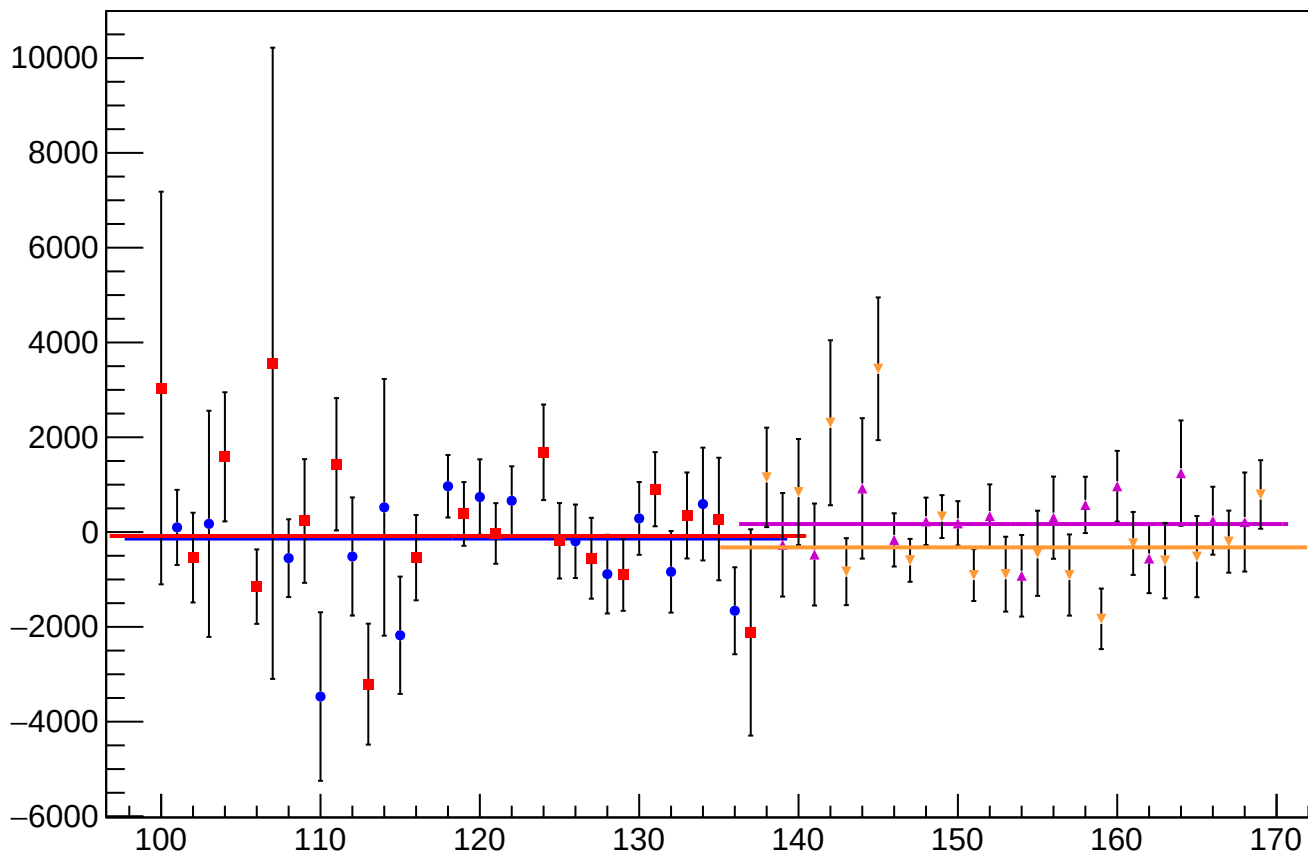
Right: 1954.992+/-0.368 χ^2 /NDF: 1017954.2/34

In: 1854.995+/-0.298 χ^2 /NDF:677002.2/30

Out: 1868.962+/-0.291 χ^2 /NDF:447641.8/35

All: 1862.148+/-0.208 χ^2 /NDF: 1125765.6/66

asym_at1_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -136.643+/-230.431 χ^2/NDF : 16.9/15

Left Out: -322.492+/-172.239 χ^2/NDF : 24.9/16

Right Out: -82.296+/-222.019 χ^2/NDF : 19.7/18

Left In: 169.487+/-185.772 χ^2/NDF : 6.4/14

Left: -95.073+/-126.305 χ^2/NDF : 35.0/31

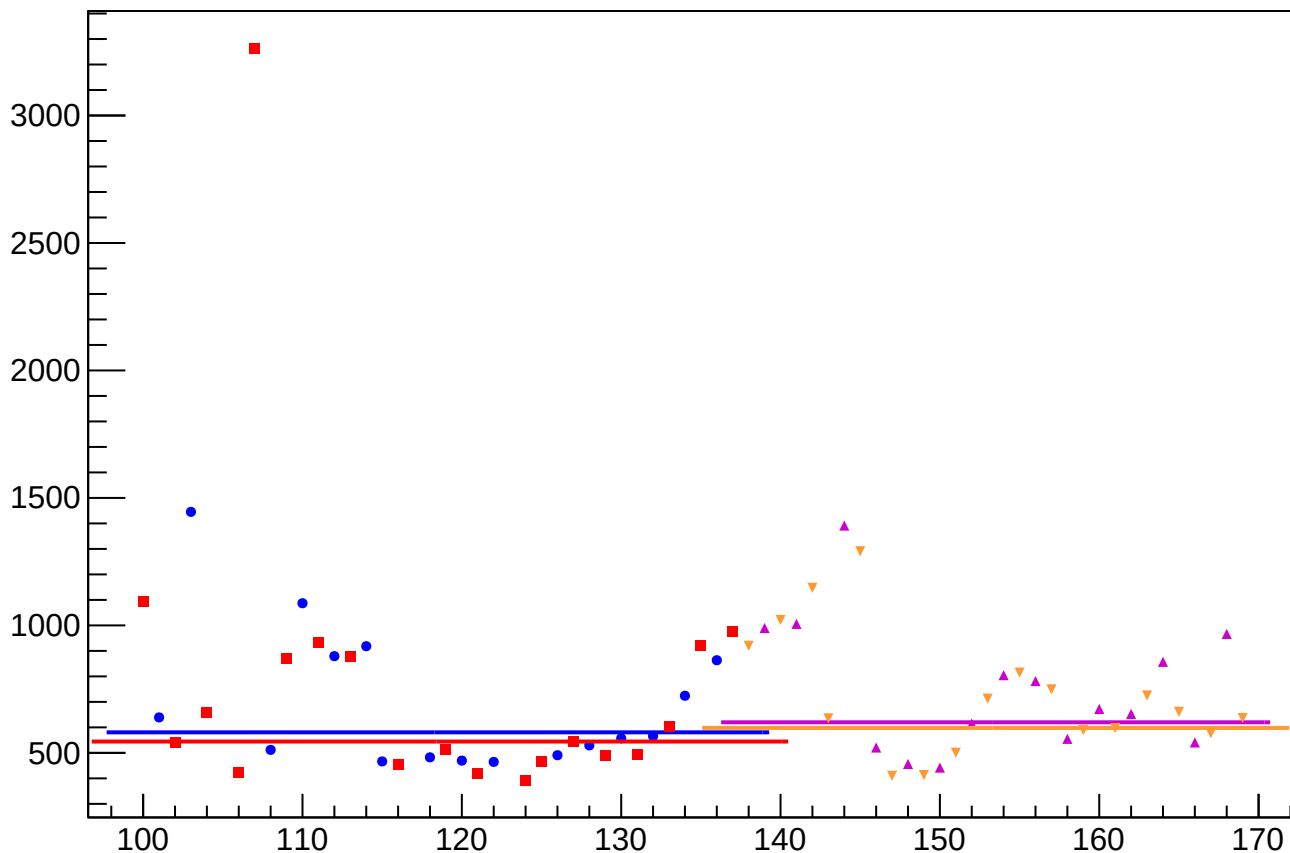
Right: -108.459+/-159.882 χ^2/NDF : 36.7/34

In: 48.896+/-144.625 χ^2/NDF : 24.3/30

Out: -232.245+/-136.089 χ^2/NDF : 45.4/35

All: -100.217+/-99.110 χ^2/NDF : 71.7/66

asym_at1_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 580.611+/-0.163 χ^2/NDF : 1003410.8/15

Left Out: 597.895+/-0.122 χ^2/NDF : 2136073.2/16

Right Out: 544.530+/-0.157 χ^2/NDF : 1287643.0/18

Left In: 619.921+/-0.131 χ^2/NDF : 2128873.8/14

Left: 608.077+/-0.089 χ^2/NDF : 4280065.7/31

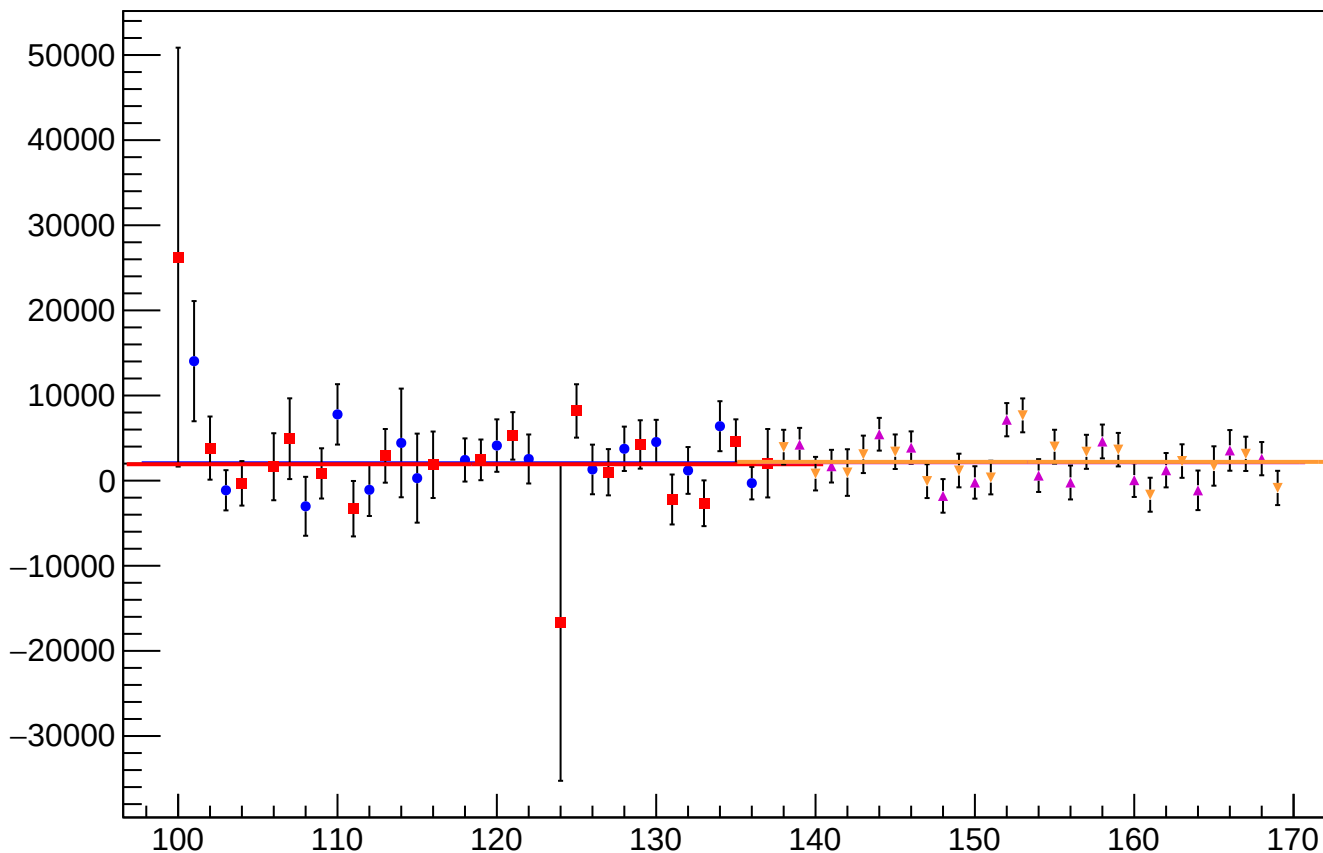
Right: 561.900+/-0.113 χ^2/NDF : 2316481.8/34

In: 604.436+/-0.102 χ^2/NDF : 3167561.7/30

Out: 577.845+/-0.096 χ^2/NDF : 3495850.6/35

All: 590.333+/-0.070 χ^2/NDF : 6699271.3/66

cor_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2038.842 $\pm$ 736.211 χ^2 /NDF: 16.4/15

Left Out: 2203.926 $\pm$ 496.898 χ^2 /NDF:19.9/16

Right Out: 1926.264 $\pm$ 737.411 χ^2 /NDF: 18.4/18

Left In: 2159.589 $\pm$ 515.096 χ^2 /NDF:24.4/14

Left: 2182.554 $\pm$ 357.620 χ^2 /NDF: 44.3/31

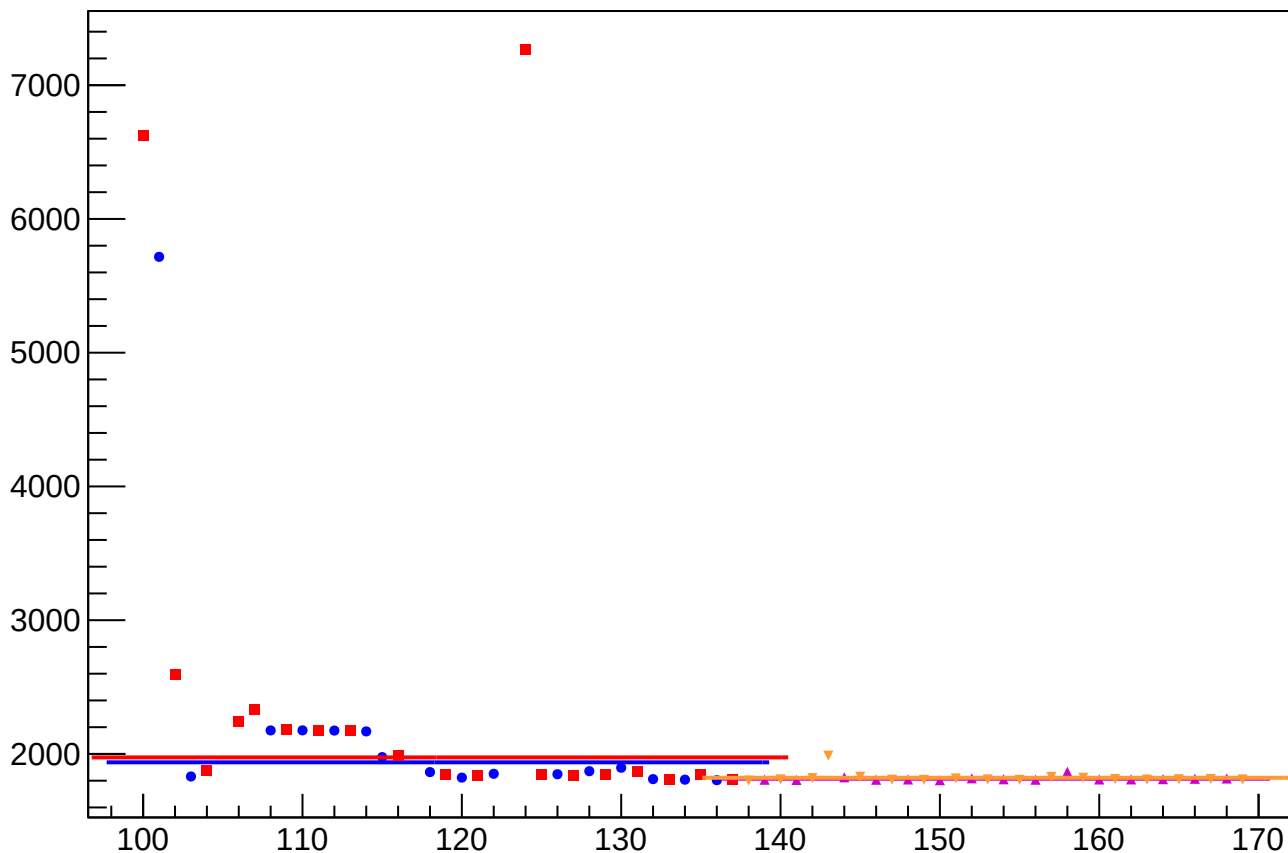
Right: 1982.645 $\pm$ 521.003 χ^2 /NDF: 34.9/34

In: 2119.906 $\pm$ 422.051 χ^2 /NDF:40.8/30

Out: 2117.220 $\pm$ 412.074 χ^2 /NDF:38.4/35

All: 2118.531 $\pm$ 294.845 χ^2 /NDF: 79.2/66

cor_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1937.251+/-0.521 χ^2 /NDF: 638092.5/15

Left Out: 1821.749+/-0.351 χ^2 /NDF:12351.6/16

Right Out: 1974.155+/-0.521 χ^2 /NDF: 380430.7/18

Left In: 1814.730+/-0.364 χ^2 /NDF:1721.6/14

Left: 1818.365+/-0.253 χ^2 /NDF: 14265.5/31

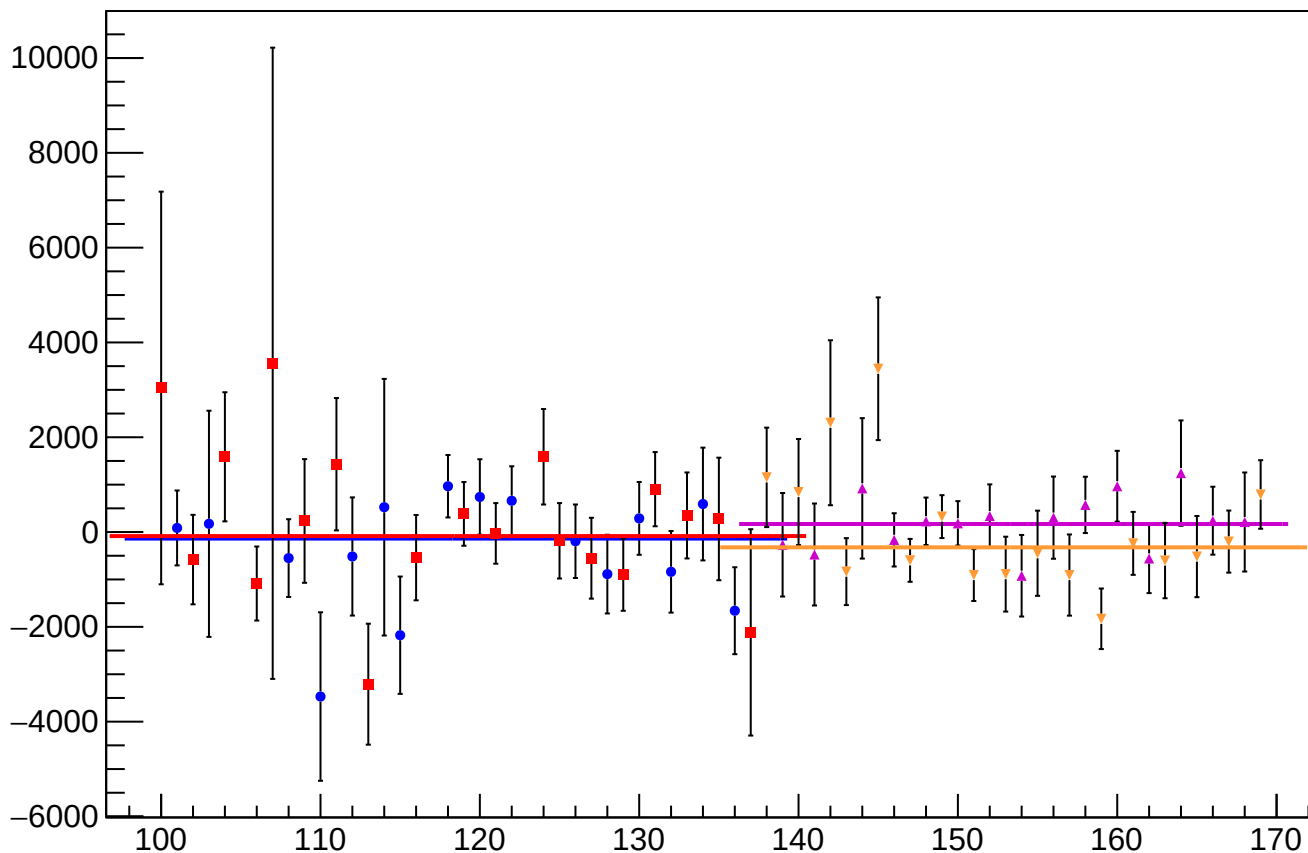
Right: 1955.673+/-0.368 χ^2 /NDF: 1021031.8/34

In: 1854.995+/-0.298 χ^2 /NDF:677002.1/30

Out: 1869.341+/-0.291 χ^2 /NDF:451535.9/35

All: 1862.340+/-0.208 χ^2 /NDF: 1129721.0/66

asym_at1_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -137.491 $\pm$ 230.382 χ^2 /NDF: 16.9/15

Left Out: -322.549 $\pm$ 172.239 χ^2 /NDF:24.9/16

Right Out: -84.947 $\pm$ 221.881 χ^2 /NDF: 19.3/18

Left In: 169.502 $\pm$ 185.772 χ^2 /NDF:6.4/14

Left: -95.098 $\pm$ 126.305 χ^2 /NDF: 35.0/31

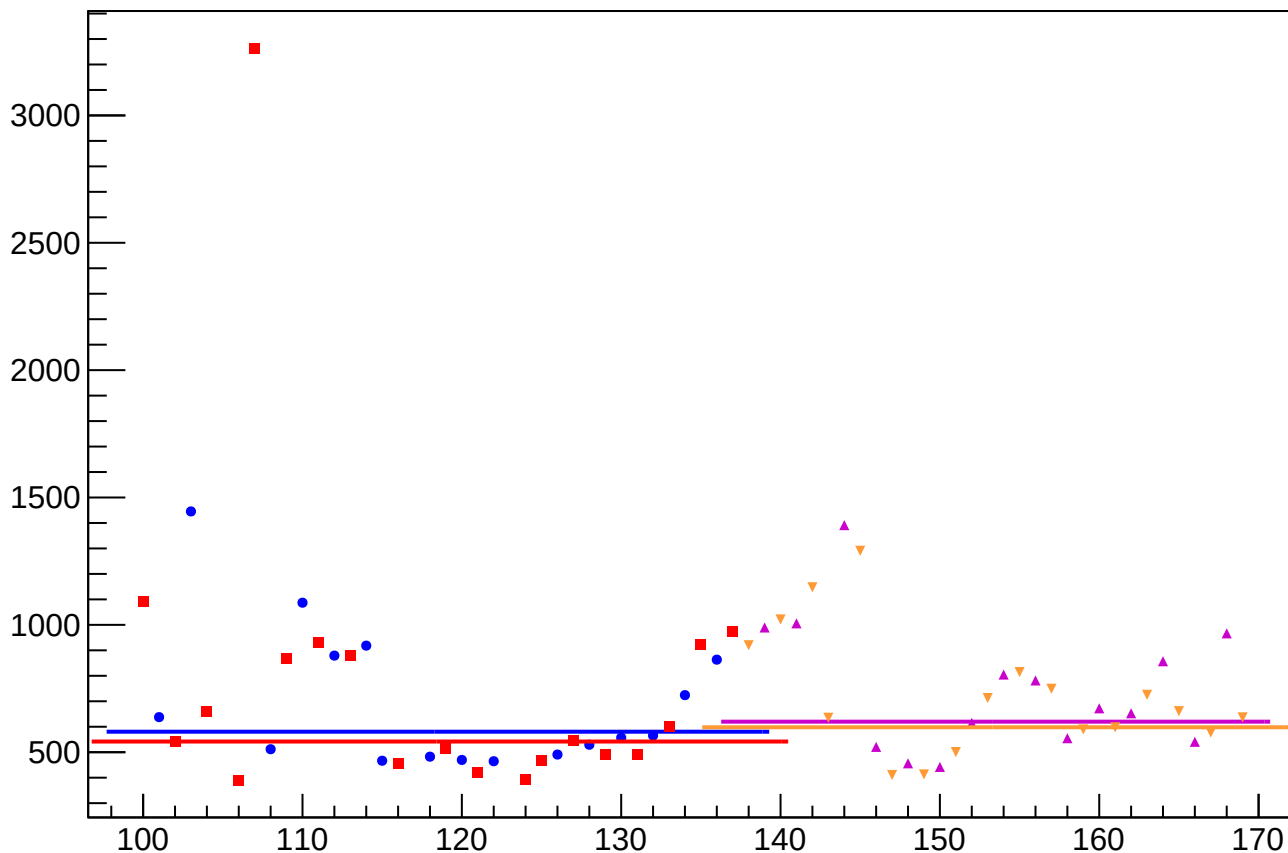
Right: -110.232 $\pm$ 159.814 χ^2 /NDF: 36.2/34

In: 48.540 $\pm$ 144.614 χ^2 /NDF:24.3/30

Out: -233.208 $\pm$ 136.057 χ^2 /NDF:44.9/35

All: -100.916 $\pm$ 99.094 χ^2 /NDF: 71.2/66

asym_at1_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 580.519+/-0.163 χ^2/NDF : 1002900.5/15

Left Out: 597.893+/-0.122 χ^2/NDF : 2136194.5/16

Right Out: 541.939+/-0.157 χ^2/NDF : 1318850.5/18

Left In: 619.924+/-0.131 χ^2/NDF : 2128936.0/14

Left: 608.076+/-0.089 χ^2/NDF : 4280255.9/31

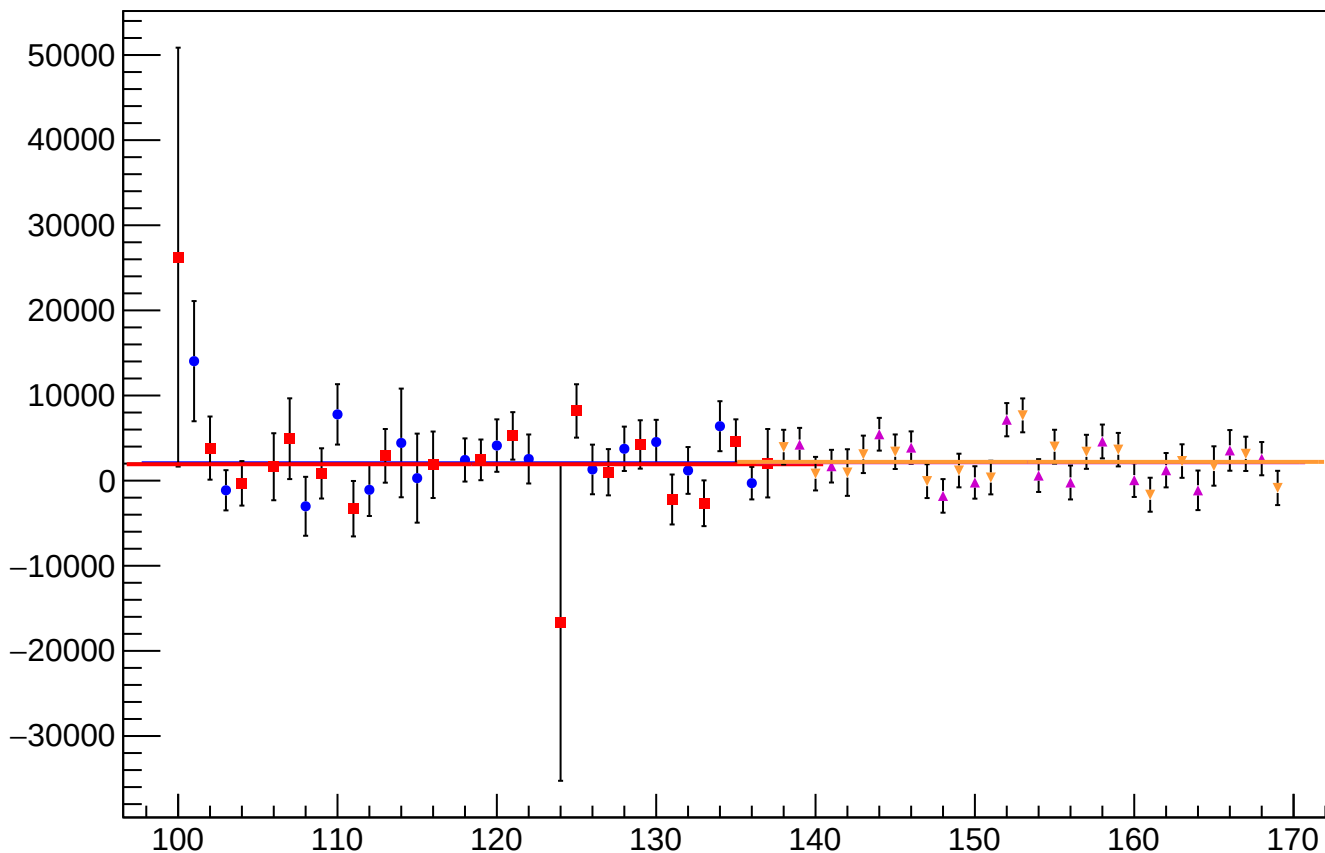
Right: 560.504+/-0.113 χ^2/NDF : 2350848.1/34

In: 604.397+/-0.102 χ^2/NDF : 3167292.2/30

Out: 576.853+/-0.096 χ^2/NDF : 3534410.4/35

All: 589.786+/-0.070 χ^2/NDF : 6740189.0/66

eigen_cor_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2038.842 $\pm$ 736.211 χ^2 /NDF: 16.4/15

Left Out: 2203.926 $\pm$ 496.898 χ^2 /NDF:19.9/16

Right Out: 1926.264 $\pm$ 737.411 χ^2 /NDF: 18.4/18

Left In: 2159.589 $\pm$ 515.096 χ^2 /NDF:24.4/14

Left: 2182.554 $\pm$ 357.620 χ^2 /NDF: 44.3/31

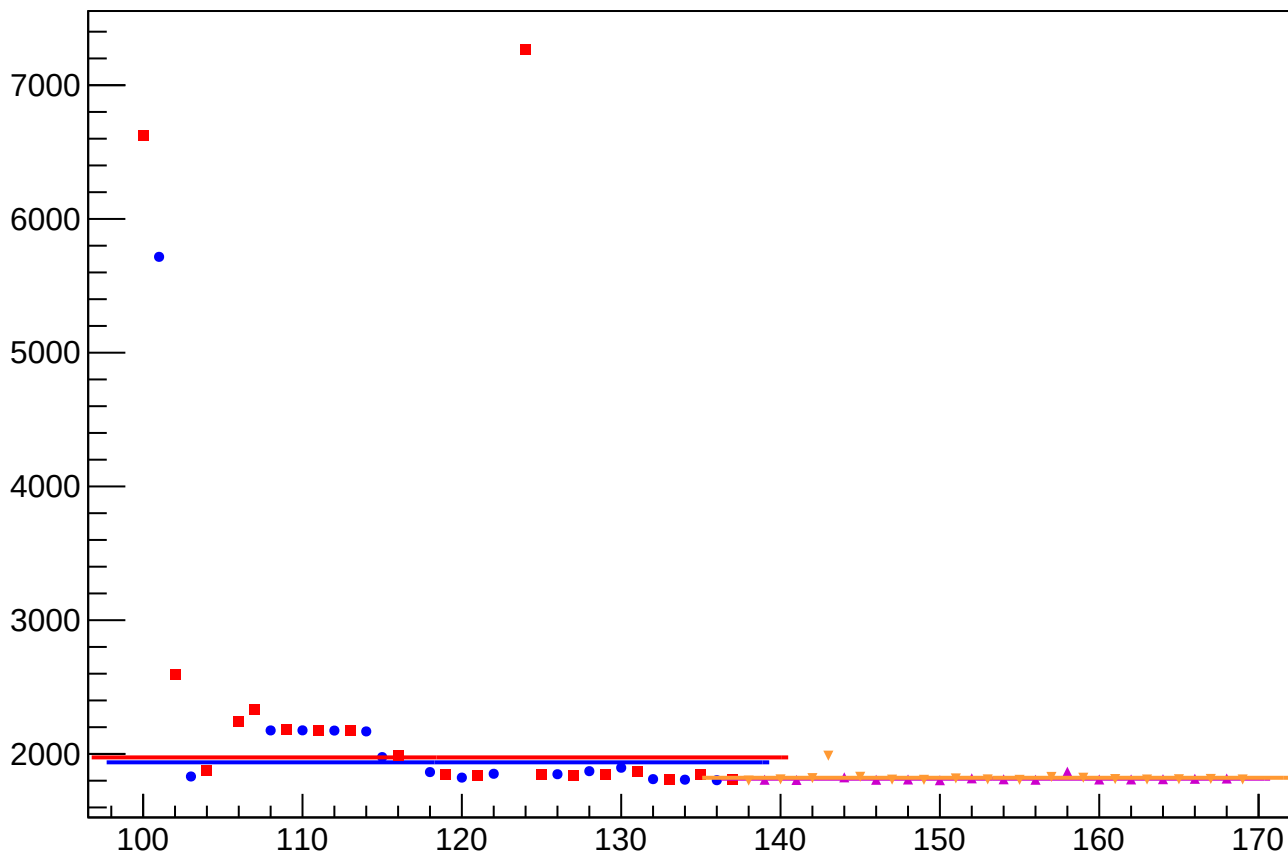
Right: 1982.645 $\pm$ 521.003 χ^2 /NDF: 34.9/34

In: 2119.906 $\pm$ 422.051 χ^2 /NDF:40.8/30

Out: 2117.220 $\pm$ 412.074 χ^2 /NDF:38.4/35

All: 2118.531 $\pm$ 294.845 χ^2 /NDF: 79.2/66

eigen_cor_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1937.251+/-0.521 χ^2 /NDF: 638092.5/15

Left Out: 1821.749+/-0.351 χ^2 /NDF:12351.6/16

Right Out: 1974.155+/-0.521 χ^2 /NDF: 380430.7/18

Left In: 1814.730+/-0.364 χ^2 /NDF:1721.6/14

Left: 1818.365+/-0.253 χ^2 /NDF: 14265.5/31

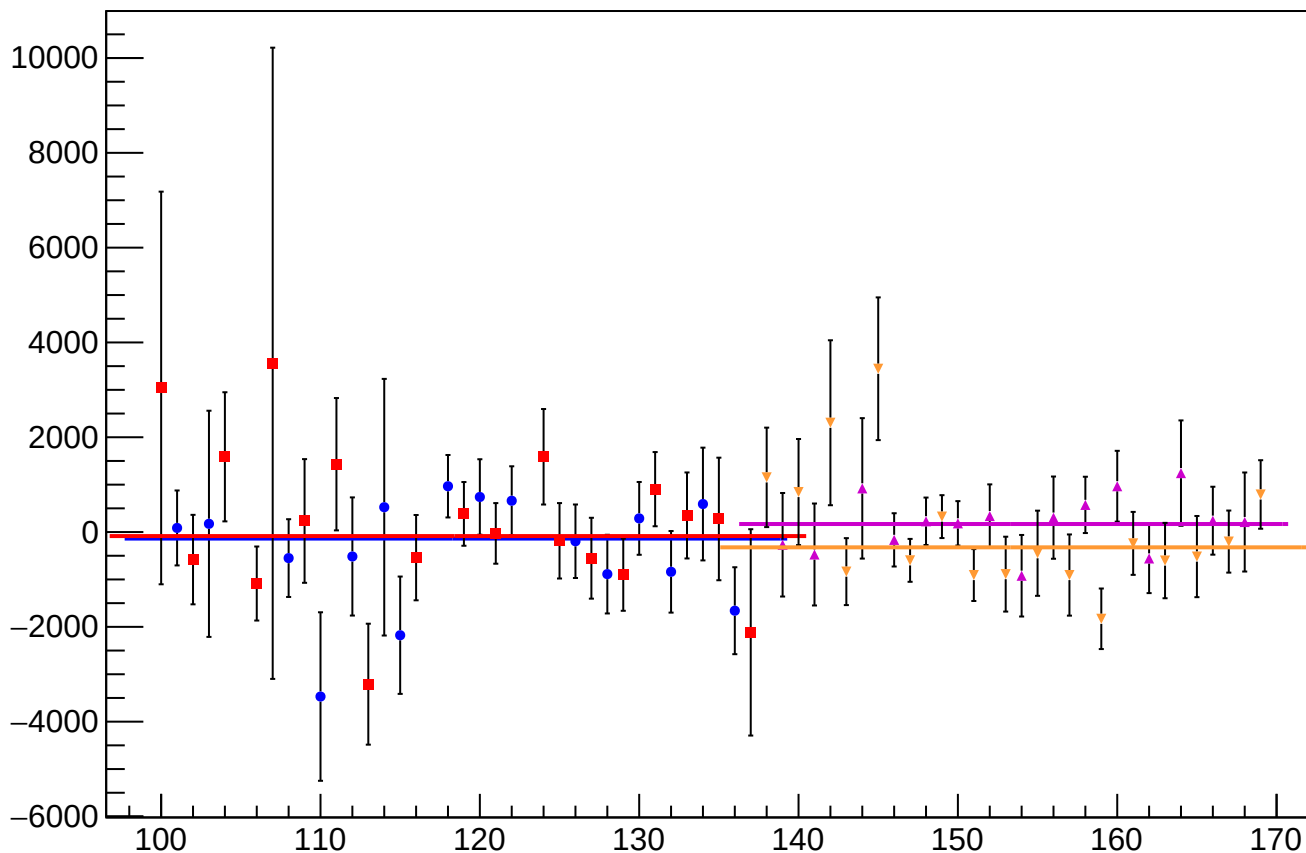
Right: 1955.673+/-0.368 χ^2 /NDF: 1021031.8/34

In: 1854.995+/-0.298 χ^2 /NDF:677002.1/30

Out: 1869.341+/-0.291 χ^2 /NDF:451535.9/35

All: 1862.340+/-0.208 χ^2 /NDF: 1129721.0/66

asym_at1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -137.491 $\pm$ 230.382 χ^2 /NDF: 16.9/15

Left Out: -322.549 $\pm$ 172.239 χ^2 /NDF:24.9/16

Right Out: -84.947 $\pm$ 221.881 χ^2 /NDF: 19.3/18

Left In: 169.502 $\pm$ 185.772 χ^2 /NDF:6.4/14

Left: -95.098 $\pm$ 126.305 χ^2 /NDF: 35.0/31

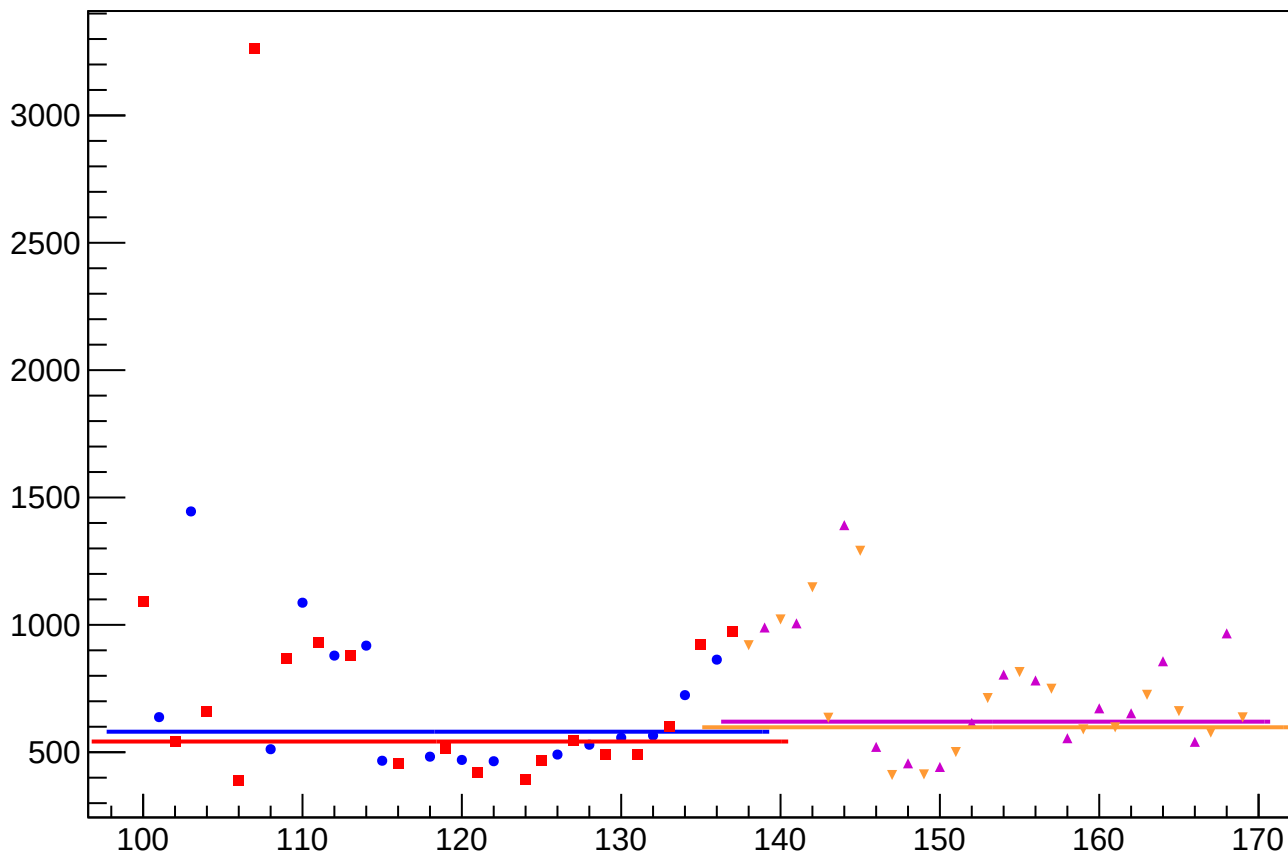
Right: -110.232 $\pm$ 159.814 χ^2 /NDF: 36.2/34

In: 48.540 $\pm$ 144.614 χ^2 /NDF:24.3/30

Out: -233.208 $\pm$ 136.057 χ^2 /NDF:44.9/35

All: -100.916 $\pm$ 99.094 χ^2 /NDF: 71.2/66

asym_at1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 580.519 ± 0.163 χ^2/NDF : 1002900.5/15

Left Out: 597.893 ± 0.122 χ^2/NDF : 2136194.5/16

Right Out: 541.939 ± 0.157 χ^2/NDF : 1318850.5/18

Left In: 619.924 ± 0.131 χ^2/NDF : 2128936.0/14

Left: 608.076 ± 0.089 χ^2/NDF : 4280255.9/31

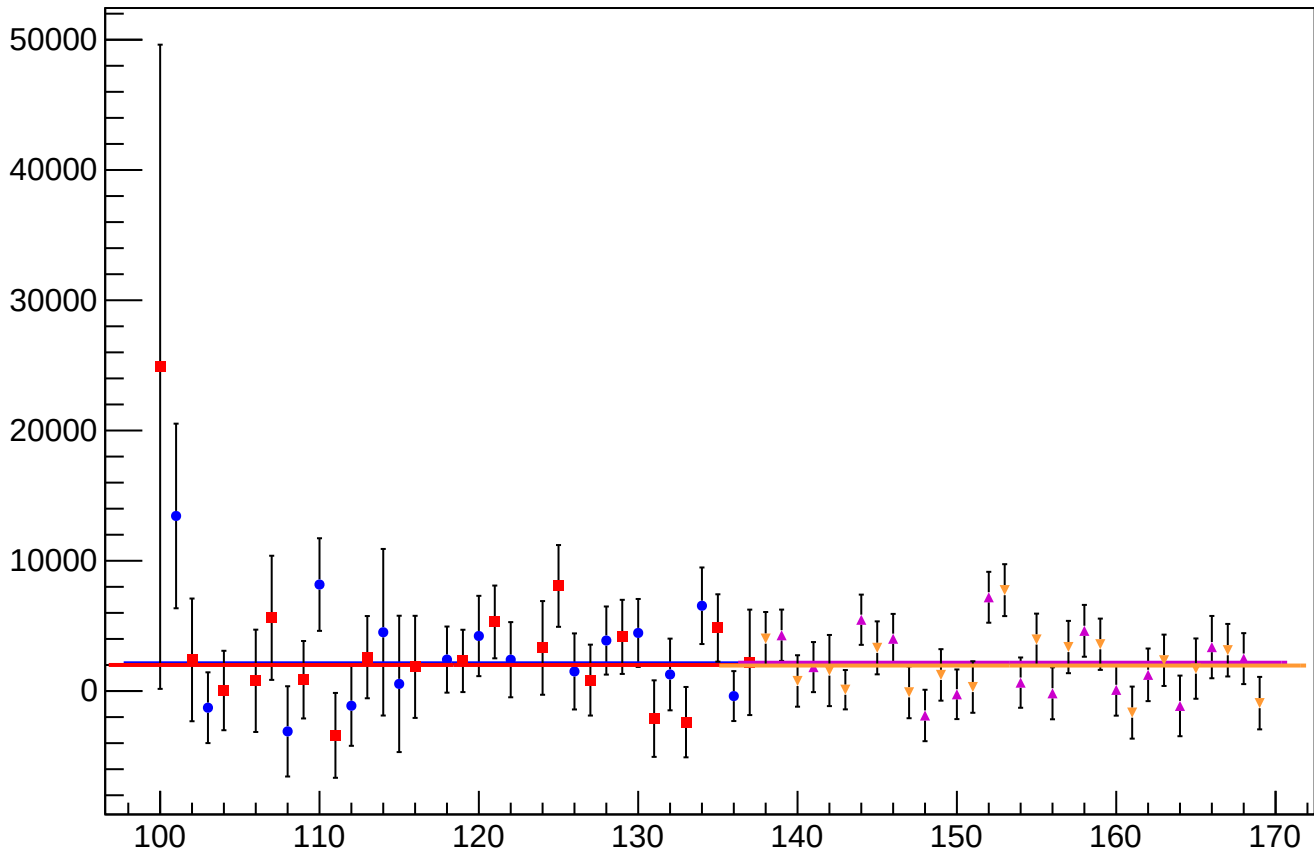
Right: 560.504 ± 0.113 χ^2/NDF : 2350848.1/34

In: 604.397 ± 0.102 χ^2/NDF : 3167292.2/30

Out: 576.853 ± 0.096 χ^2/NDF : 3534410.4/35

All: 589.786 ± 0.070 χ^2/NDF : 6740189.0/66

dit_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2128.748 $\pm$ 746.242 χ^2 /NDF: 16.5/15

Left Out: 1958.048 $\pm$ 483.747 χ^2 /NDF:21.6/16

Right Out: 2002.220 $\pm$ 737.195 χ^2 /NDF: 16.7/18

Left In: 2173.569 $\pm$ 515.685 χ^2 /NDF:24.6/14

Left: 2058.928 $\pm$ 352.812 χ^2 /NDF: 46.3/31

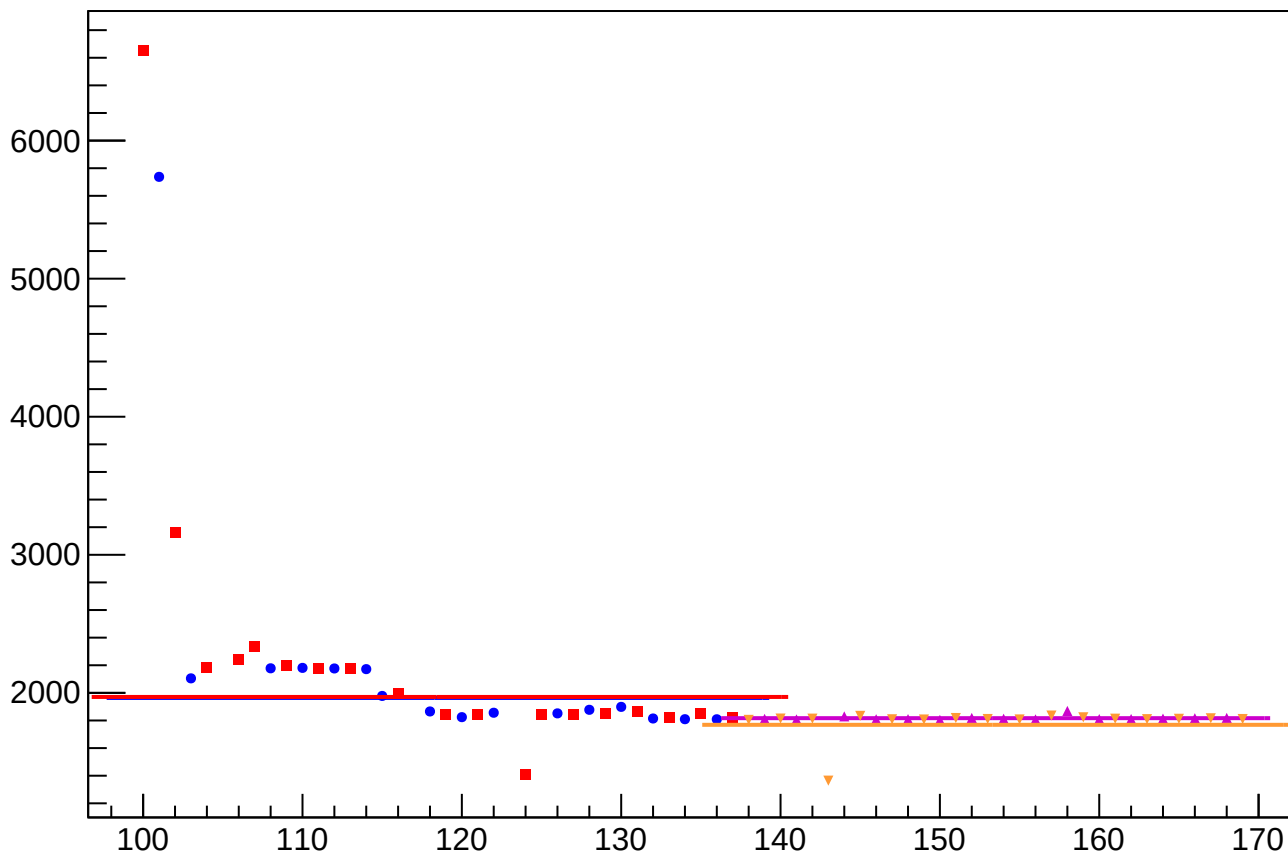
Right: 2064.712 $\pm$ 524.445 χ^2 /NDF: 33.3/34

In: 2159.083 $\pm$ 424.243 χ^2 /NDF:41.1/30

Out: 1971.343 $\pm$ 404.445 χ^2 /NDF:38.4/35

All: 2060.730 $\pm$ 292.735 χ^2 /NDF: 79.6/66

dit_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1963.415+/-0.528 χ^2/NDF : 640254.1/15

Left Out: 1768.590+/-0.342 χ^2/NDF :160425.8/16

Right Out: 1970.459+/-0.521 χ^2/NDF : 345133.0/18

Left In: 1816.781+/-0.365 χ^2/NDF :1757.9/14

Left: 1791.147+/-0.249 χ^2/NDF : 171474.2/31

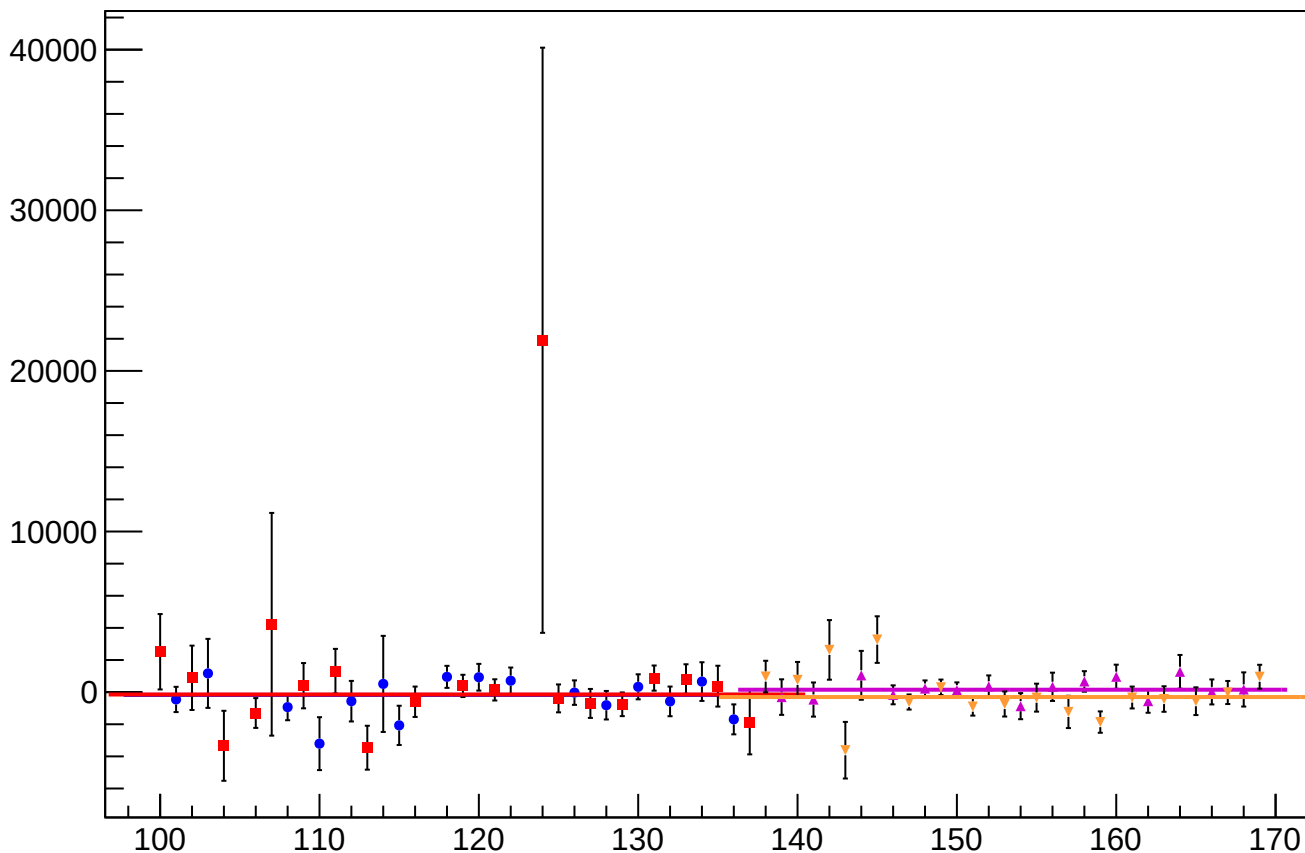
Right: 1966.980+/-0.371 χ^2/NDF : 985477.3/34

In: 1864.173+/-0.300 χ^2/NDF :694275.9/30

Out: 1829.351+/-0.286 χ^2/NDF :610389.6/35

All: 1845.931+/-0.207 χ^2/NDF : 1311724.3/66

asym_at1_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -170.774+/-236.912 χ^2/NDF : 17.2/15

Left Out: -304.865+/-182.700 χ^2/NDF : 27.6/16

Right Out: -147.489+/-242.848 χ^2/NDF : 20.1/18

Left In: 150.079+/-190.204 χ^2/NDF : 6.8/14

Left: -86.544+/-131.761 χ^2/NDF : 37.4/31

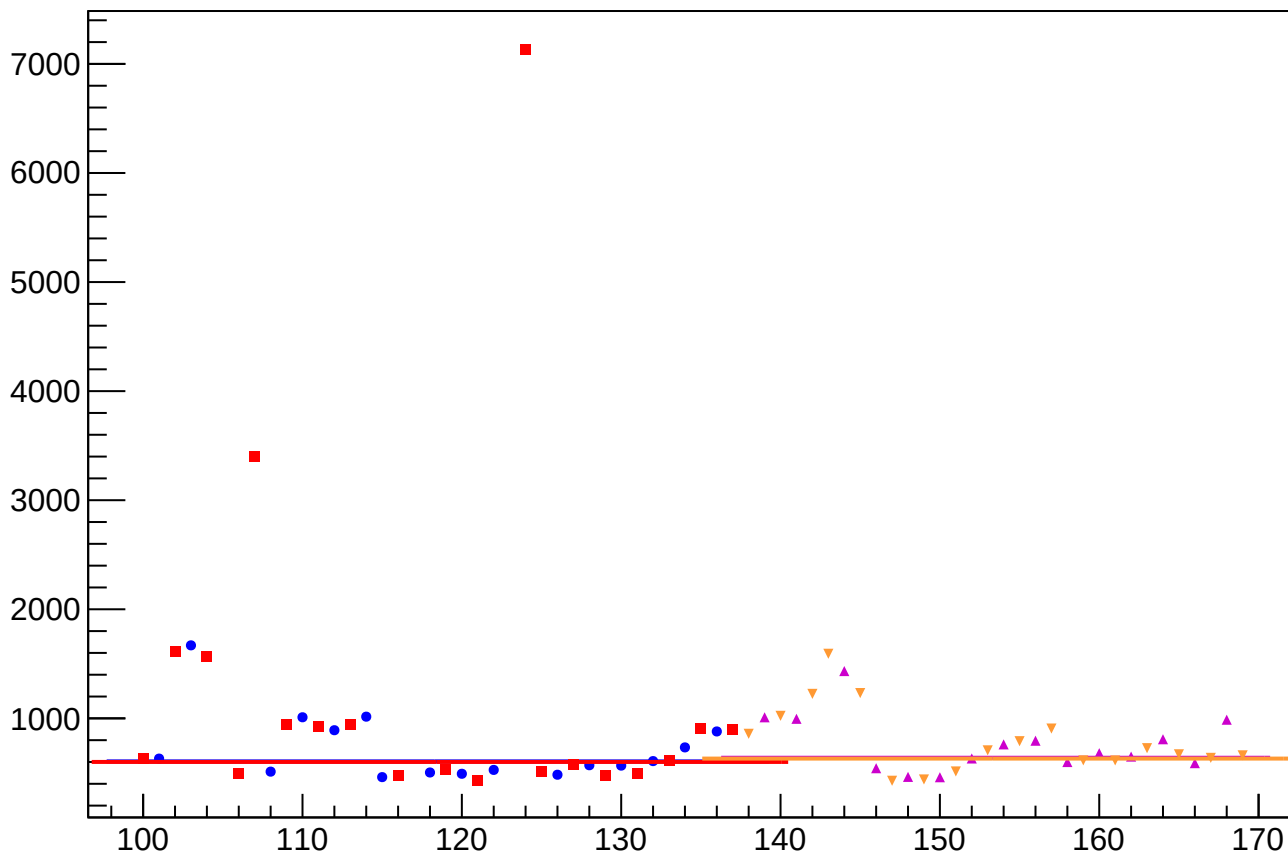
Right: -159.420+/-169.582 χ^2/NDF : 37.3/34

In: 24.326+/-148.318 χ^2/NDF : 25.2/30

Out: -247.985+/-145.997 χ^2/NDF : 48.0/35

All: -113.977+/-104.046 χ^2/NDF : 74.9/66

asym_at1_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 605.430 $\pm$ 0.168 χ^2 /NDF: 1162454.5/15

Left Out: 631.184 $\pm$ 0.129 χ^2 /NDF: 2546176.7/16

Right Out: 600.447 $\pm$ 0.172 χ^2 /NDF: 2328523.8/18

Left In: 638.830 $\pm$ 0.134 χ^2 /NDF: 1955748.3/14

Left: 634.853 $\pm$ 0.093 χ^2 /NDF: 4503606.2/31

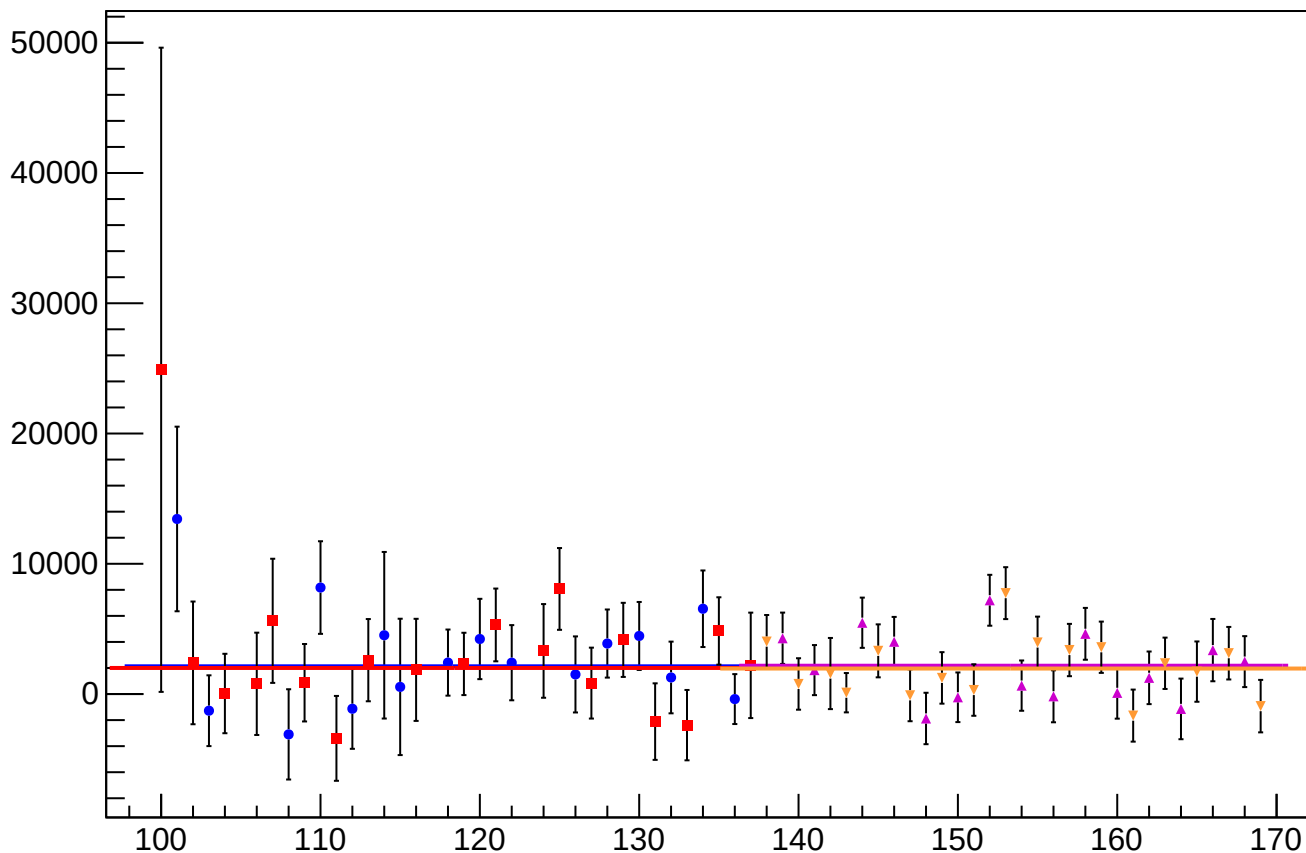
Right: 603.000 $\pm$ 0.120 χ^2 /NDF: 3491409.7/34

In: 625.739 $\pm$ 0.105 χ^2 /NDF: 3142374.6/30

Out: 620.074 $\pm$ 0.103 χ^2 /NDF: 4895159.9/35

All: 622.862 $\pm$ 0.074 χ^2 /NDF: 8039016.2/66

eigen_dit_asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2128.746 $\pm$ 746.242 χ^2 /NDF: 16.5/15

Left Out: 1958.048 $\pm$ 483.747 χ^2 /NDF: 21.6/16

Right Out: 2002.218 $\pm$ 737.195 χ^2 /NDF: 16.7/18

Left In: 2173.569 $\pm$ 515.685 χ^2 /NDF: 24.6/14

Left: 2058.928 $\pm$ 352.812 χ^2 /NDF: 46.3/31

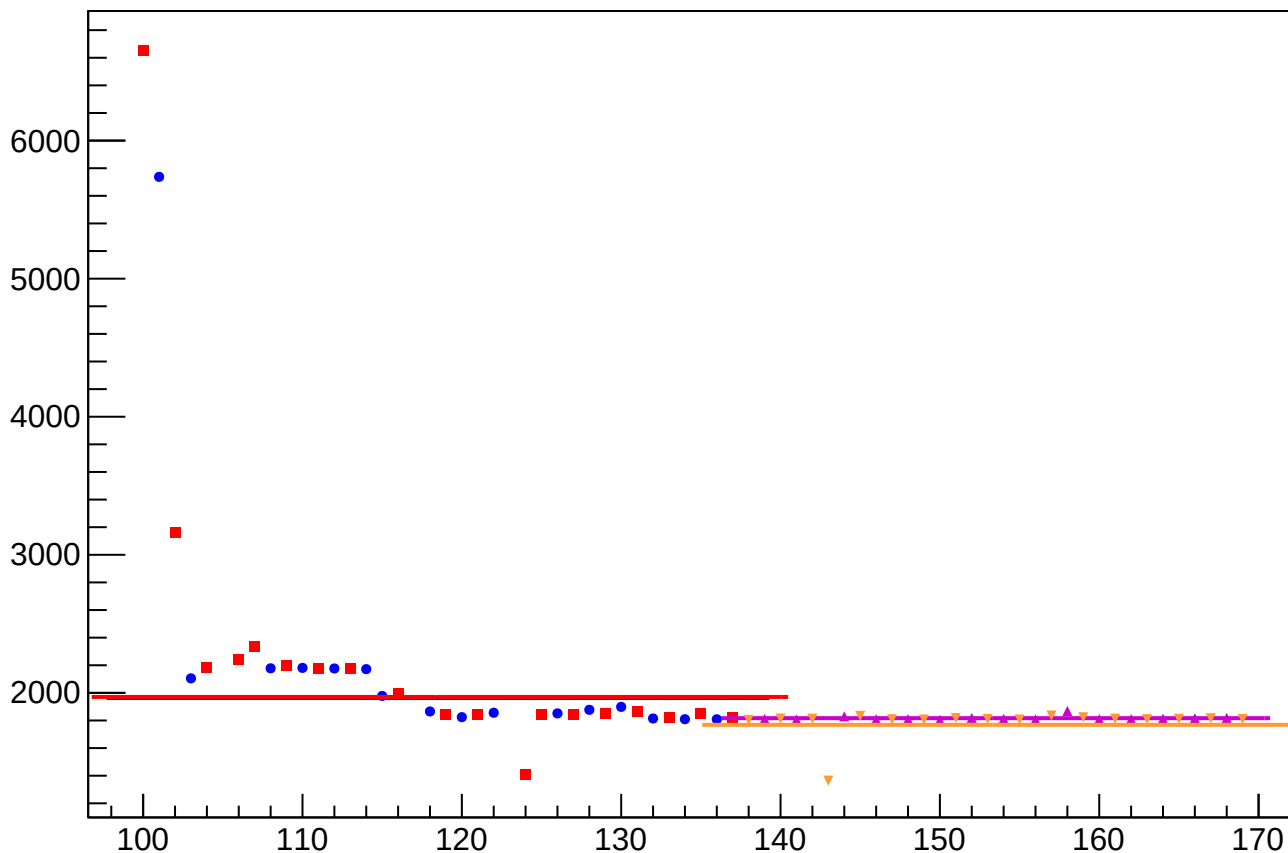
Right: 2064.710 $\pm$ 524.445 χ^2 /NDF: 33.3/34

In: 2159.082 $\pm$ 424.243 χ^2 /NDF: 41.1/30

Out: 1971.343 $\pm$ 404.445 χ^2 /NDF: 38.4/35

All: 2060.730 $\pm$ 292.735 χ^2 /NDF: 79.6/66

eigen_dit_asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 1963.415+/-0.528 χ^2/NDF : 640253.8/15

Left Out: 1768.590+/-0.342 χ^2/NDF :160425.8/16

Right Out: 1970.459+/-0.521 χ^2/NDF : 345131.7/18

Left In: 1816.781+/-0.365 χ^2/NDF :1757.9/14

Left: 1791.147+/-0.249 χ^2/NDF : 171474.2/31

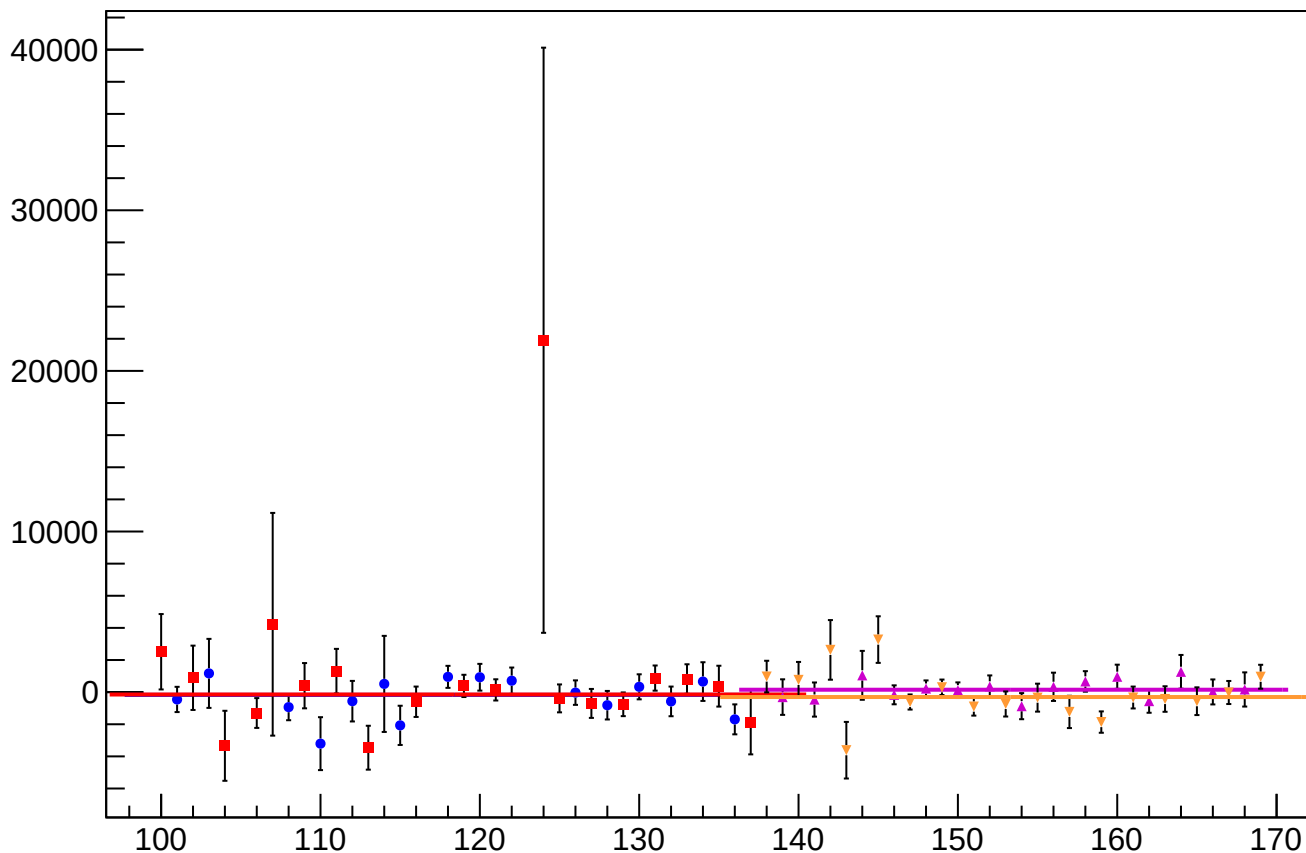
Right: 1966.980+/-0.371 χ^2/NDF : 985475.7/34

In: 1864.173+/-0.300 χ^2/NDF :694275.5/30

Out: 1829.351+/-0.286 χ^2/NDF :610388.0/35

All: 1845.930+/-0.207 χ^2/NDF : 1311722.3/66

asym_at1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -170.773+/-236.912 χ^2/NDF : 17.2/15

Left Out: -304.865+/-182.700 χ^2/NDF : 27.6/16

Right Out: -147.489+/-242.847 χ^2/NDF : 20.1/18

Left In: 150.079+/-190.204 χ^2/NDF : 6.8/14

Left: -86.544+/-131.761 χ^2/NDF : 37.4/31

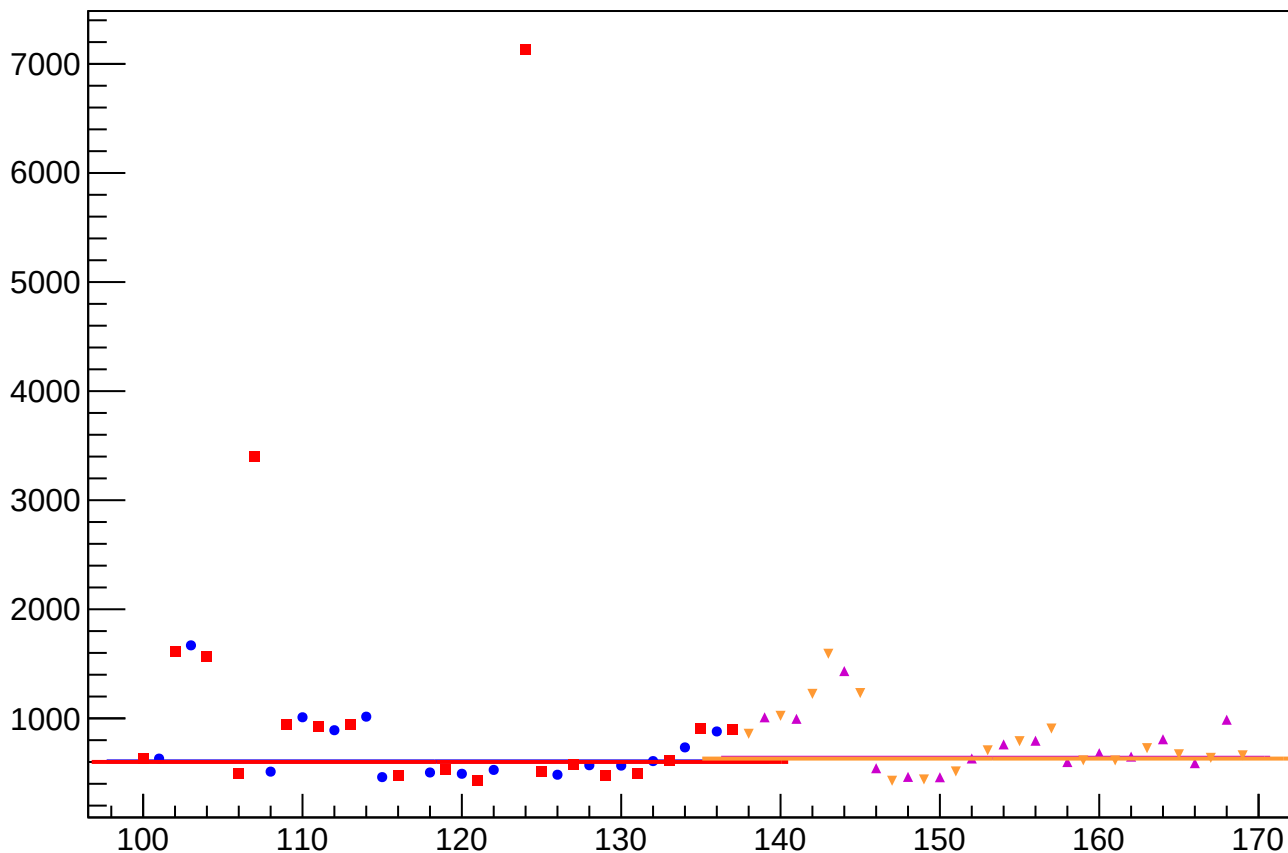
Right: -159.419+/-169.581 χ^2/NDF : 37.3/34

In: 24.326+/-148.318 χ^2/NDF : 25.2/30

Out: -247.985+/-145.997 χ^2/NDF : 48.0/35

All: -113.977+/-104.046 χ^2/NDF : 74.9/66

asym_at1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 605.429+/-0.168 χ^2/NDF : 1162462.4/15

Left Out: 631.185+/-0.129 χ^2/NDF : 2546168.9/16

Right Out: 600.446+/-0.172 χ^2/NDF : 2328531.9/18

Left In: 638.831+/-0.134 χ^2/NDF : 1955743.3/14

Left: 634.854+/-0.093 χ^2/NDF : 4503593.3/31

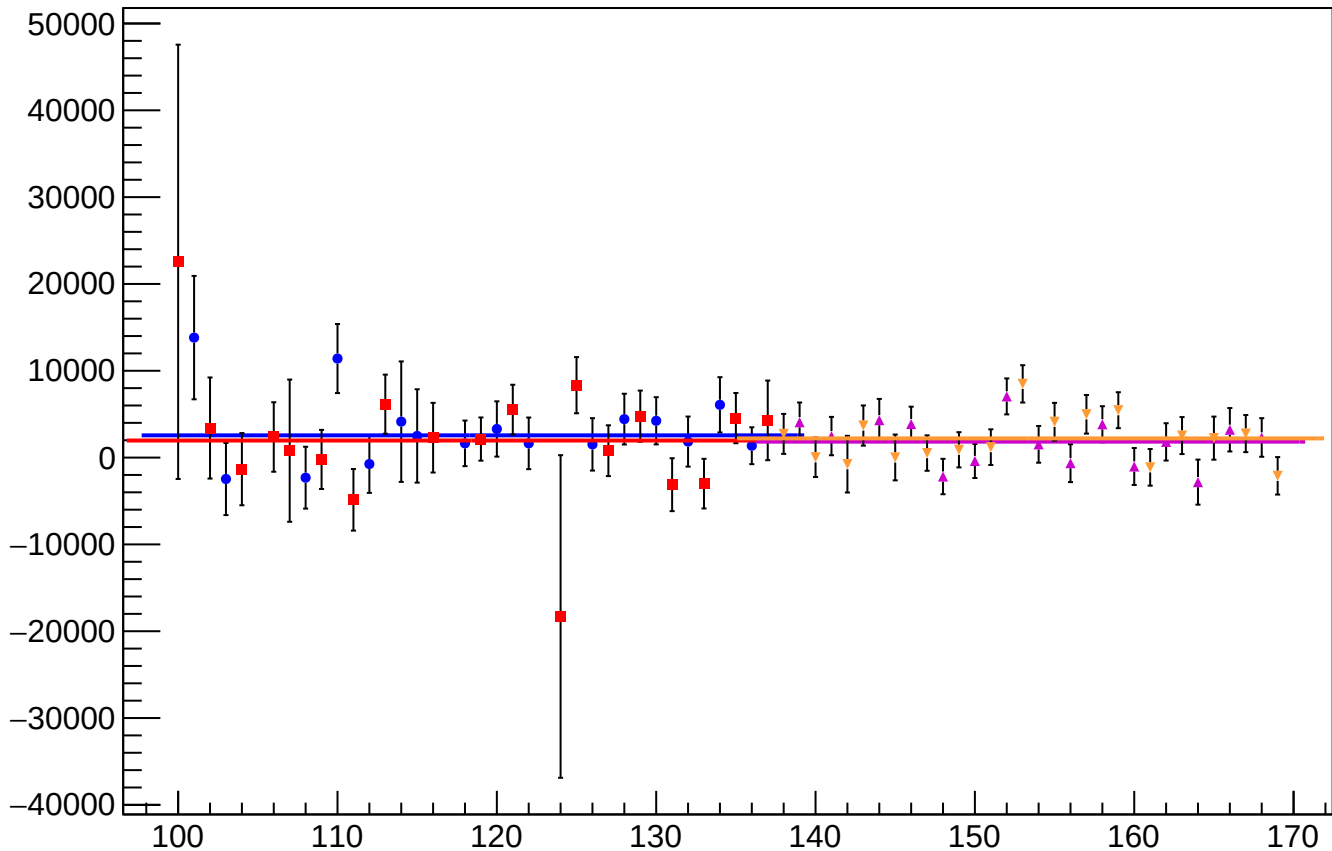
Right: 602.999+/-0.120 χ^2/NDF : 3491425.6/34

In: 625.739+/-0.105 χ^2/NDF : 3142380.6/30

Out: 620.075+/-0.103 χ^2/NDF : 4895162.7/35

All: 622.863+/-0.074 χ^2/NDF : 8039025.0/66

asym_at1_avg_mean vs Slug, Sign Corrected



Right In: 2560.971 $\pm$ 809.658 χ^2 /NDF: 14.6/15

Left Out: 2210.323 $\pm$ 540.017 χ^2 /NDF:24.1/16

Right Out: 1966.731 $\pm$ 818.839 χ^2 /NDF: 21.6/18

Left In: 1839.529 $\pm$ 562.362 χ^2 /NDF:22.2/14

Left: 2032.439 $\pm$ 389.510 χ^2 /NDF: 46.6/31

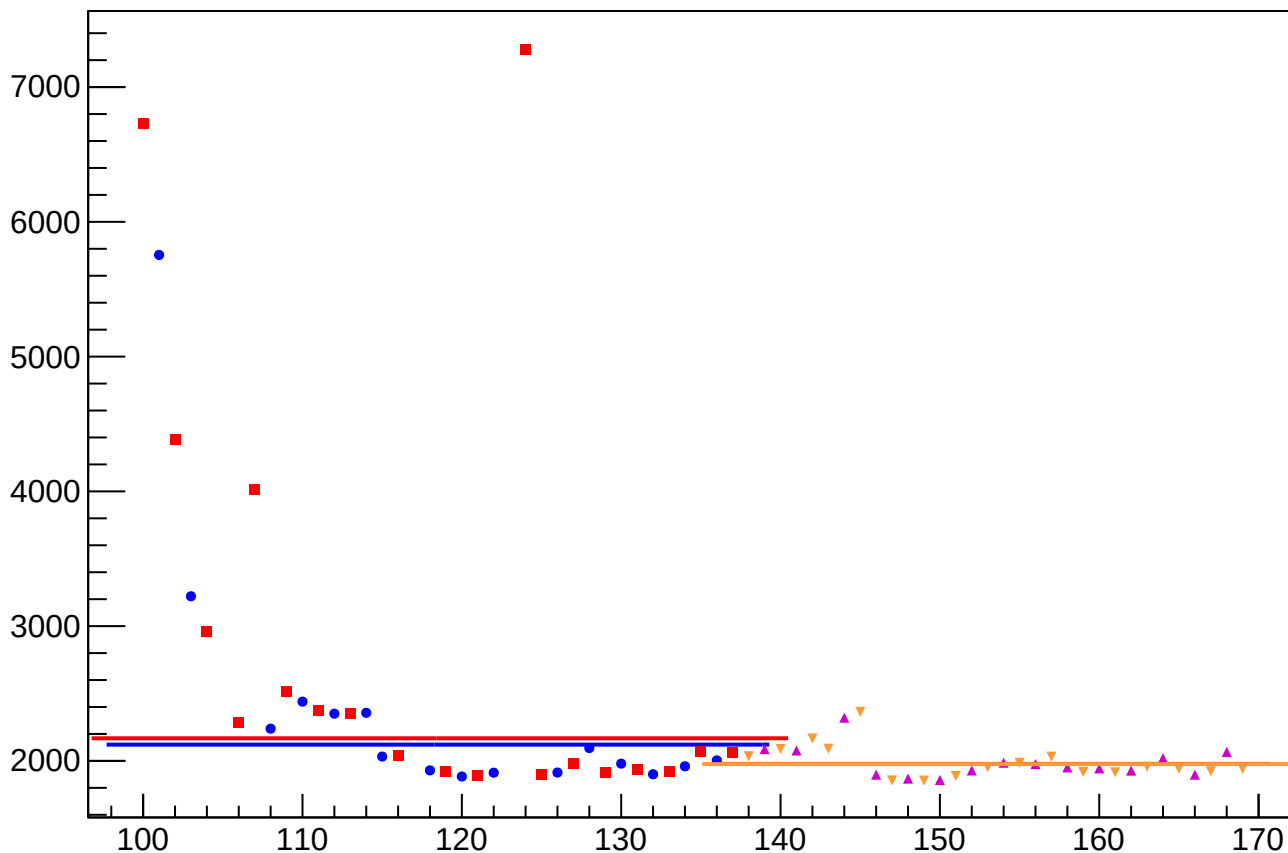
Right: 2267.201 $\pm$ 575.733 χ^2 /NDF: 36.5/34

In: 2074.307 $\pm$ 461.881 χ^2 /NDF:37.4/30

Out: 2136.490 $\pm$ 450.809 χ^2 /NDF:45.8/35

All: 2106.153 $\pm$ 322.613 χ^2 /NDF: 83.2/66

asym_at1_avg_rms vs Slug, Sign Corrected



Right In: 2120.778+/-0.573 χ^2/NDF : 759969.1/15

Left Out: 1975.939+/-0.382 χ^2/NDF : 86199.1/16

Right Out: 2167.840+/-0.579 χ^2/NDF : 823925.5/18

Left In: 1977.638+/-0.398 χ^2/NDF : 73006.5/14

Left: 1976.754+/-0.275 χ^2/NDF : 159215.2/31

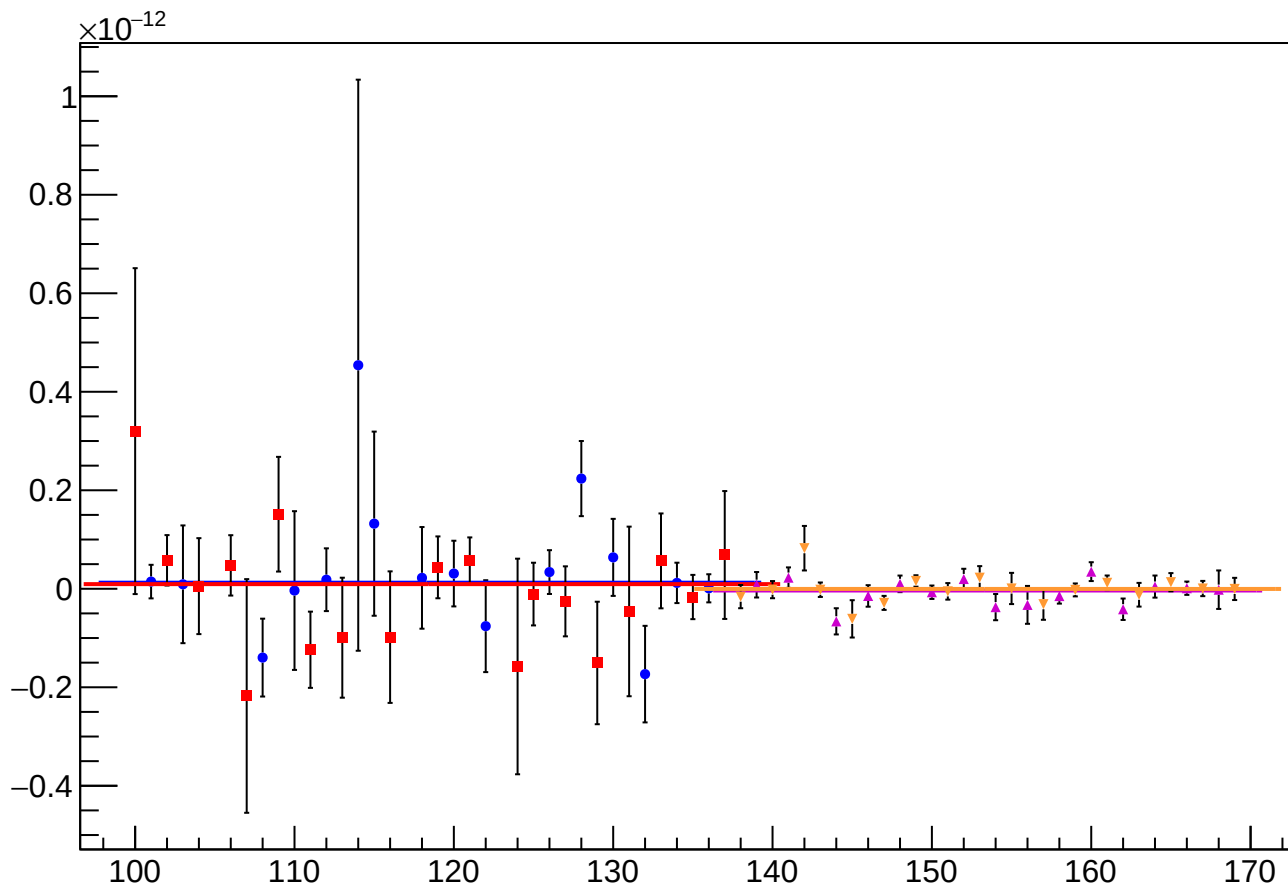
Right: 2144.044+/-0.407 χ^2/NDF : 1587235.2/34

In: 2024.220+/-0.327 χ^2/NDF : 875142.6/30

Out: 2034.105+/-0.319 χ^2/NDF : 986676.6/35

All: 2029.282+/-0.228 χ^2/NDF : 1862288.3/66

asym_at1_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 15.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 13.8/18

Left In: -0.000+/-0.000 χ^2/NDF : 19.6/14

Left: -0.000+/-0.000 χ^2/NDF : 35.6/31

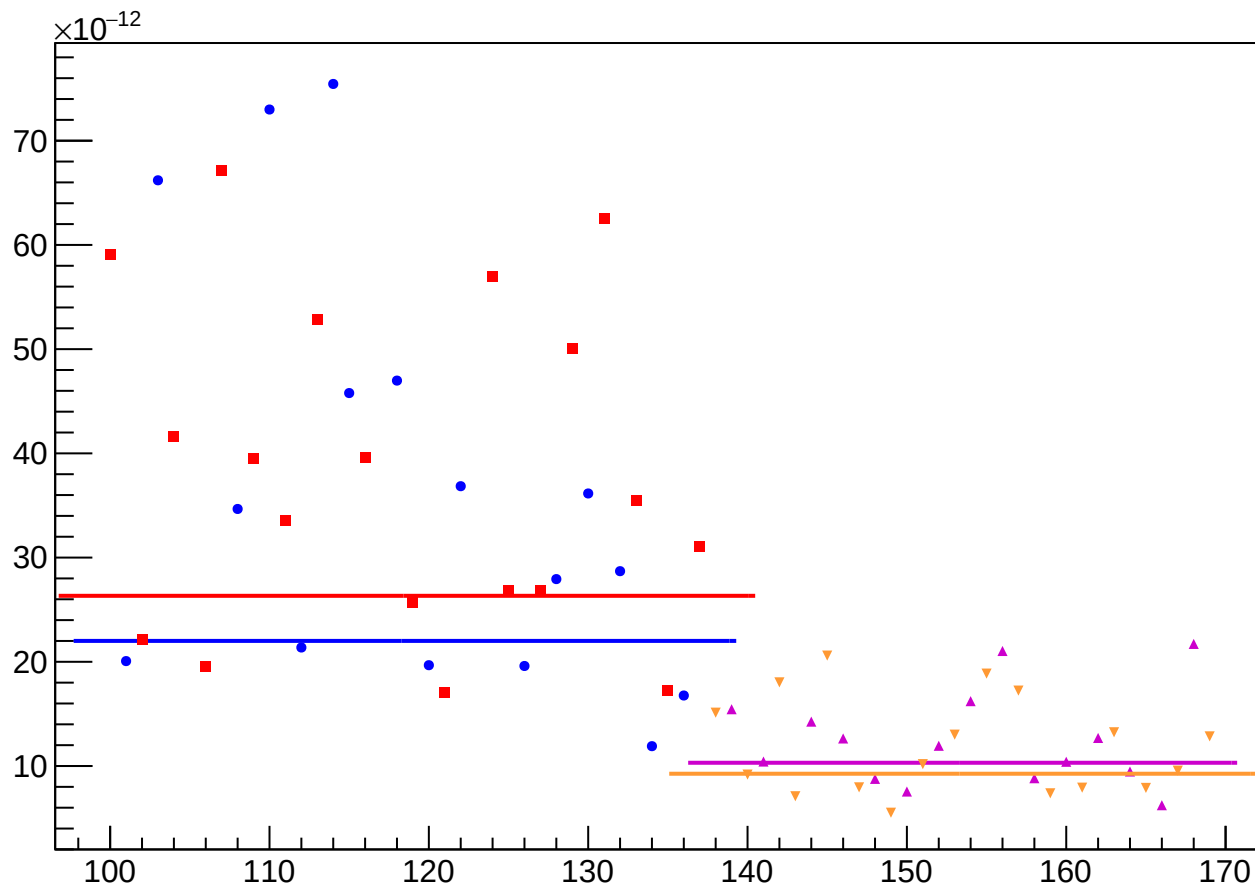
Right: 0.000+/-0.000 χ^2/NDF : 31.6/34

In: -0.000+/-0.000 χ^2/NDF : 38.4/30

Out: 0.000+/-0.000 χ^2/NDF : 29.8/35

All: -0.000+/-0.000 χ^2/NDF : 68.3/66

asym_at1_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1032604.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :1187641.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 705211.2/18

Left In: 0.000+/-0.000 χ^2/NDF :908897.7/14

Left: 0.000+/-0.000 χ^2/NDF : 2144963.6/31

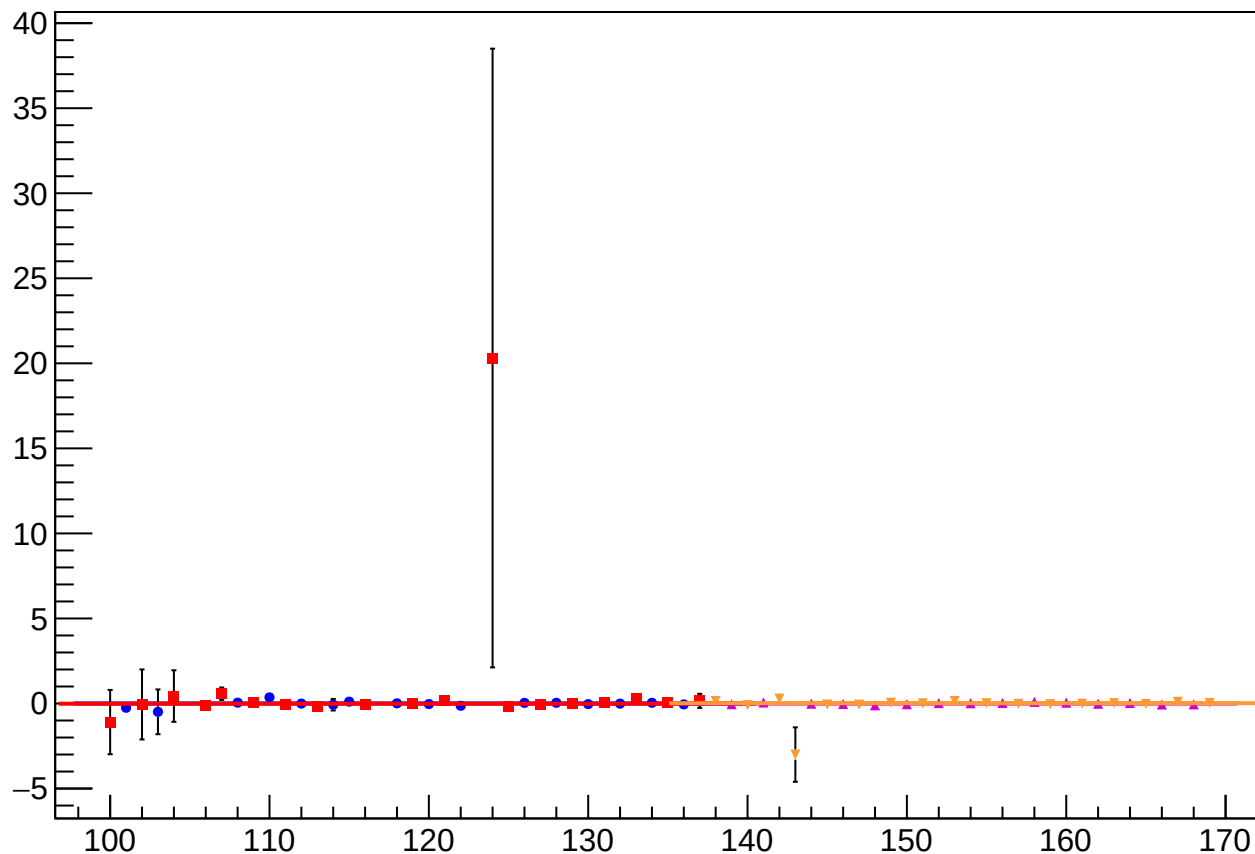
Right: 0.000+/-0.000 χ^2/NDF : 1806874.5/34

In: 0.000+/-0.000 χ^2/NDF :3064812.6/30

Out: 0.000+/-0.000 χ^2/NDF :3584664.0/35

All: 0.000+/-0.000 χ^2/NDF : 6738522.9/66

asym_at1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.027 χ^2 /NDF: 11.4/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:24.3/16

Right Out: -0.013 $\pm$ 0.026 χ^2 /NDF: 17.6/18

Left In: -0.003 $\pm$ 0.015 χ^2 /NDF:13.4/14

Left: 0.007 $\pm$ 0.010 χ^2 /NDF: 38.5/31

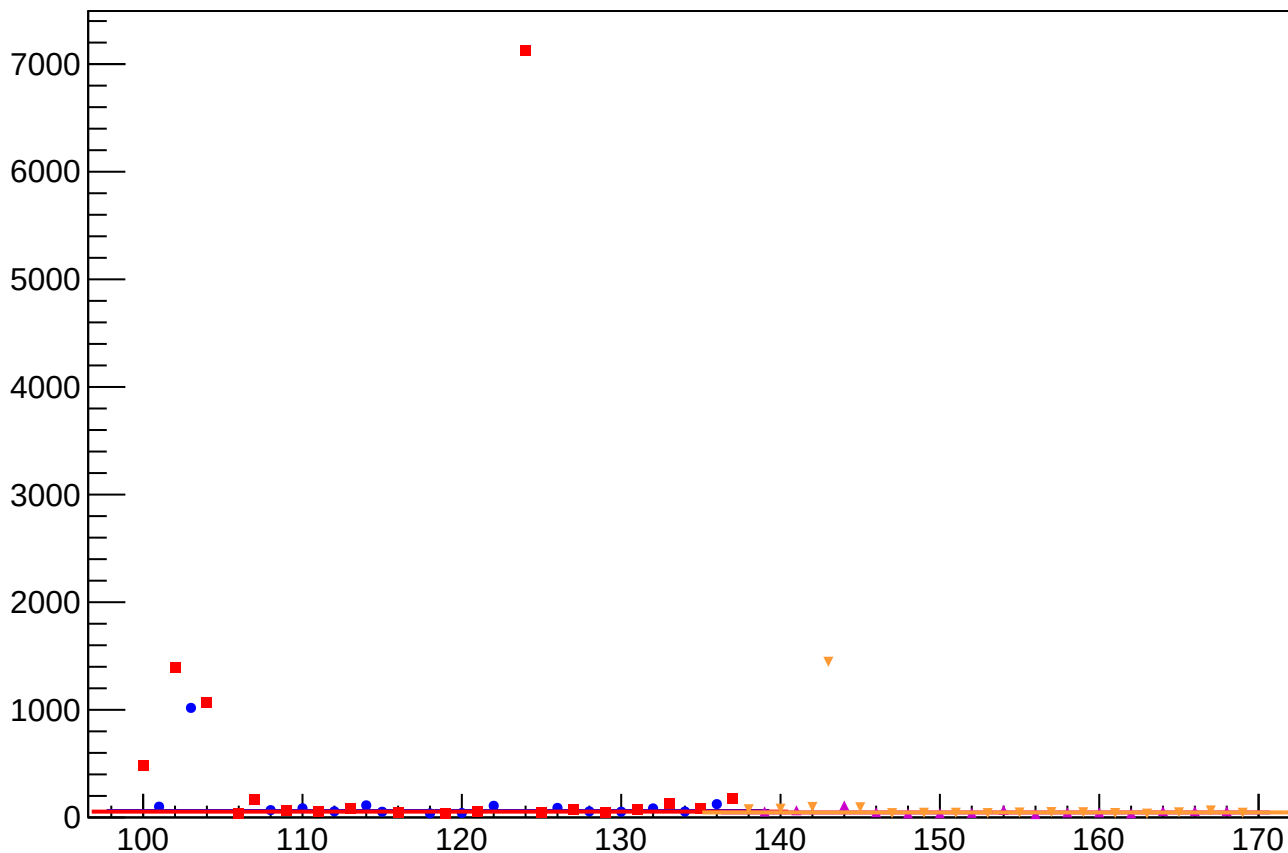
Right: -0.005 $\pm$ 0.019 χ^2 /NDF: 29.2/34

In: -0.002 $\pm$ 0.013 χ^2 /NDF:24.8/30

Out: 0.009 $\pm$ 0.013 χ^2 /NDF:42.8/35

All: 0.004 $\pm$ 0.009 χ^2 /NDF: 68.0/66

asym_at1_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.840 $\pm$ 0.019 χ^2 /NDF: 2538867.4/15

Left Out: 46.725 $\pm$ 0.010 χ^2 /NDF: 2936133.0/16

Right Out: 54.249 $\pm$ 0.018 χ^2 /NDF: 3521580.5/18

Left In: 46.597 $\pm$ 0.011 χ^2 /NDF: 1538497.3/14

Left: 46.662 $\pm$ 0.007 χ^2 /NDF: 4474704.9/31

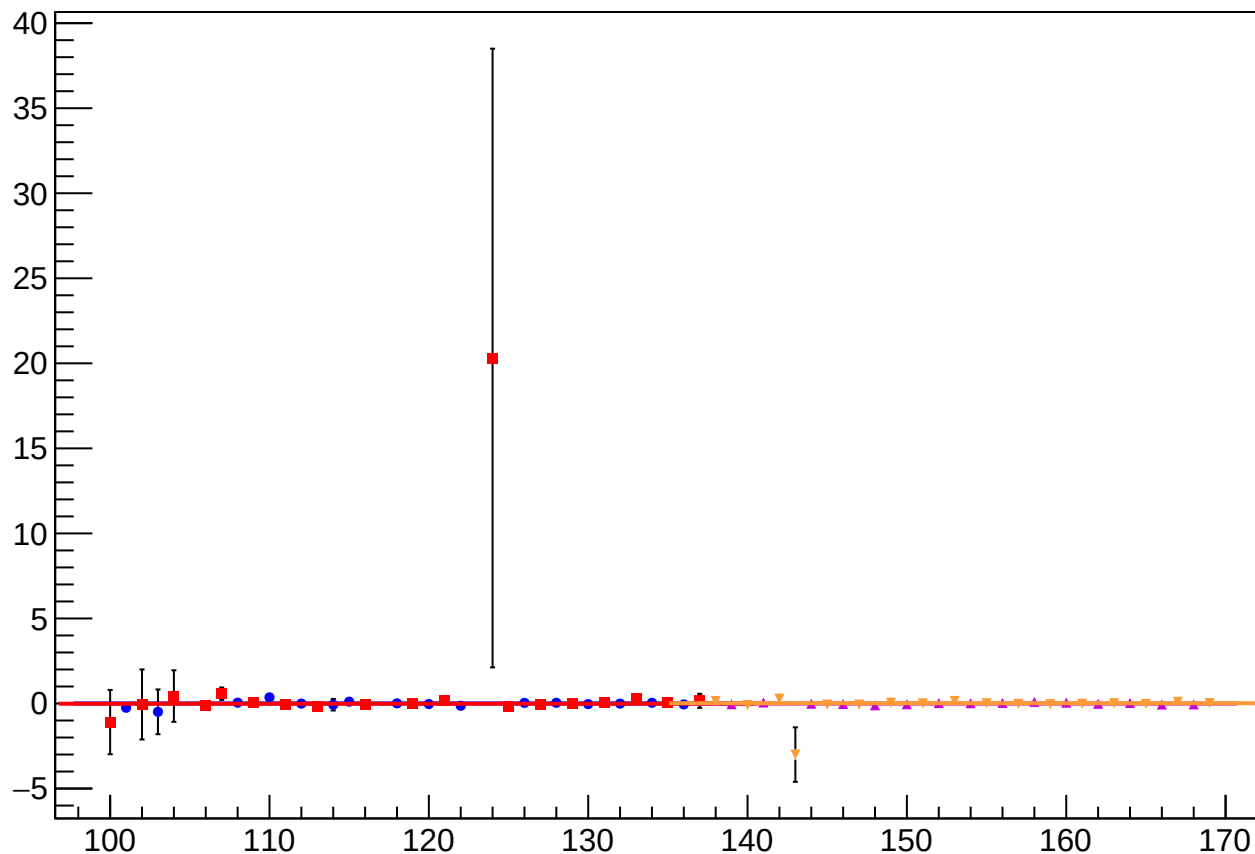
Right: 56.948 $\pm$ 0.013 χ^2 /NDF: 6105751.4/34

In: 49.751 $\pm$ 0.009 χ^2 /NDF: 4451696.5/30

Out: 48.577 $\pm$ 0.009 χ^2 /NDF: 6585831.0/35

All: 49.153 $\pm$ 0.006 χ^2 /NDF: 11045783.7/66

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.027 χ^2 /NDF: 11.4/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:24.3/16

Right Out: -0.013 $\pm$ 0.026 χ^2 /NDF: 17.6/18

Left In: -0.003 $\pm$ 0.015 χ^2 /NDF:13.4/14

Left: 0.007 $\pm$ 0.010 χ^2 /NDF: 38.5/31

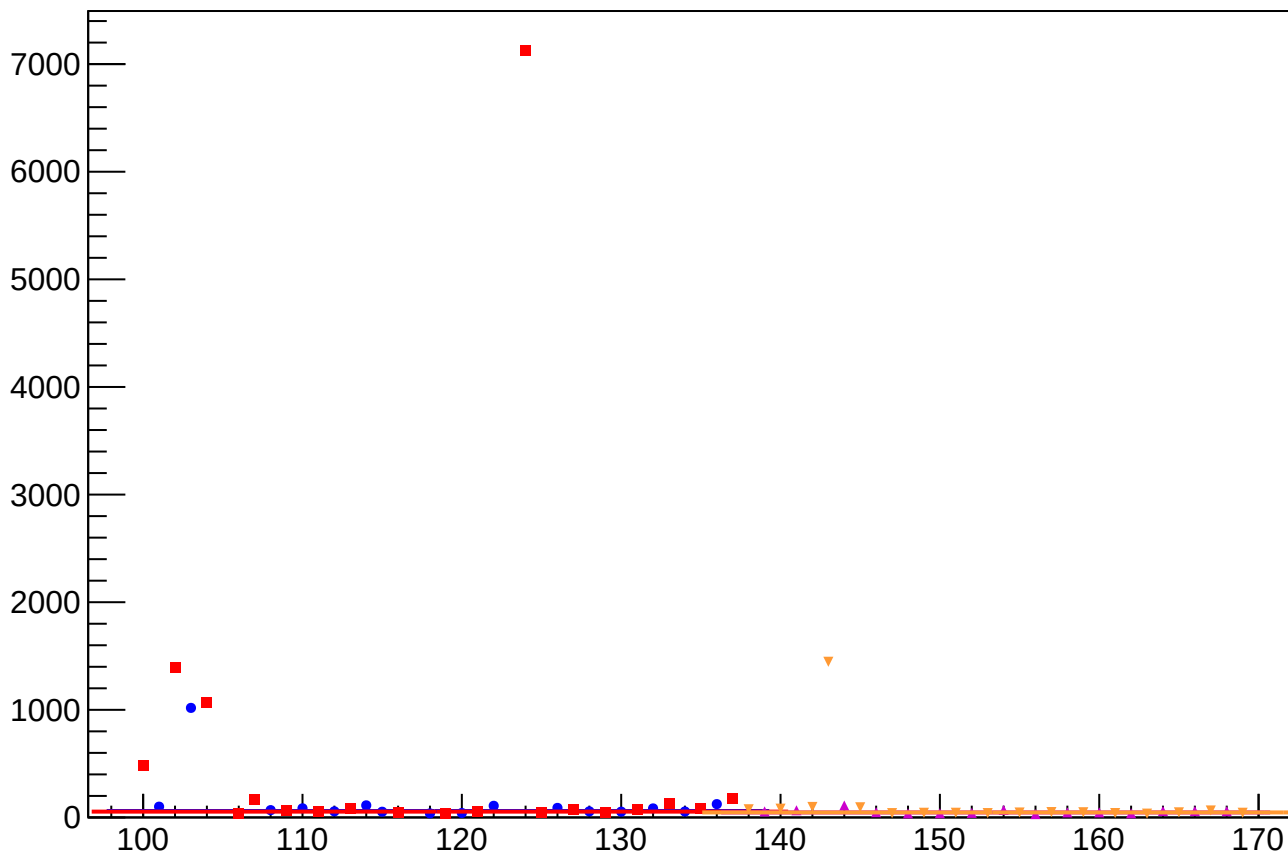
Right: -0.005 $\pm$ 0.019 χ^2 /NDF: 29.2/34

In: -0.002 $\pm$ 0.013 χ^2 /NDF:24.8/30

Out: 0.009 $\pm$ 0.013 χ^2 /NDF:42.8/35

All: 0.004 $\pm$ 0.009 χ^2 /NDF: 68.0/66

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.840 $\pm$ 0.019 χ^2 /NDF: 2538867.4/15

Left Out: 46.725 $\pm$ 0.010 χ^2 /NDF: 2936133.0/16

Right Out: 54.249 $\pm$ 0.018 χ^2 /NDF: 3521580.5/18

Left In: 46.597 $\pm$ 0.011 χ^2 /NDF: 1538497.3/14

Left: 46.662 $\pm$ 0.007 χ^2 /NDF: 4474704.9/31

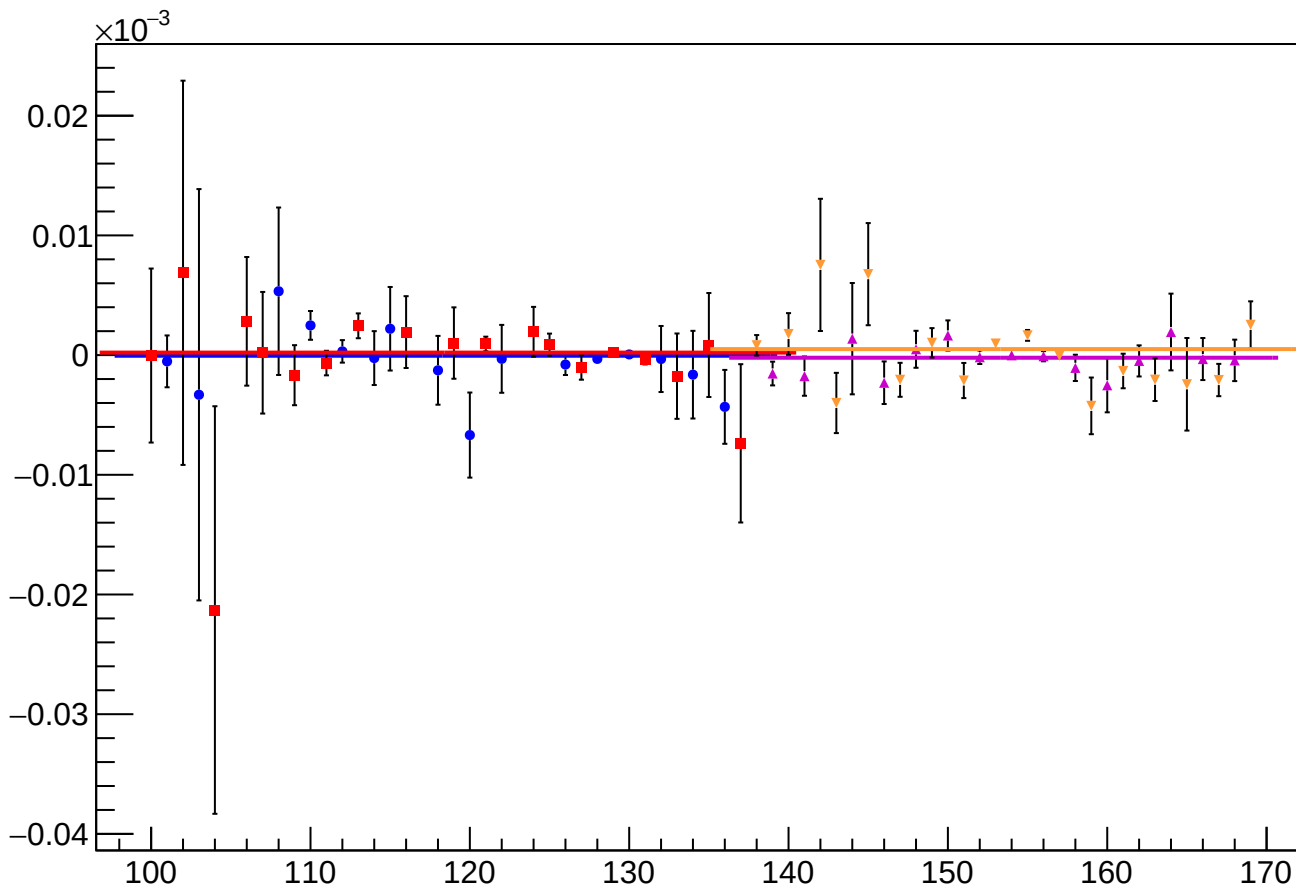
Right: 56.948 $\pm$ 0.013 χ^2 /NDF: 6105751.4/34

In: 49.751 $\pm$ 0.009 χ^2 /NDF: 4451696.5/30

Out: 48.577 $\pm$ 0.009 χ^2 /NDF: 6585831.0/35

All: 49.153 $\pm$ 0.006 χ^2 /NDF: 11045783.7/66

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 12.8/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 37.1/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 15.6/18

Left In: -0.000 ± 0.000 χ^2/NDF : 9.0/14

Left: 0.000 ± 0.000 χ^2/NDF : 51.9/31

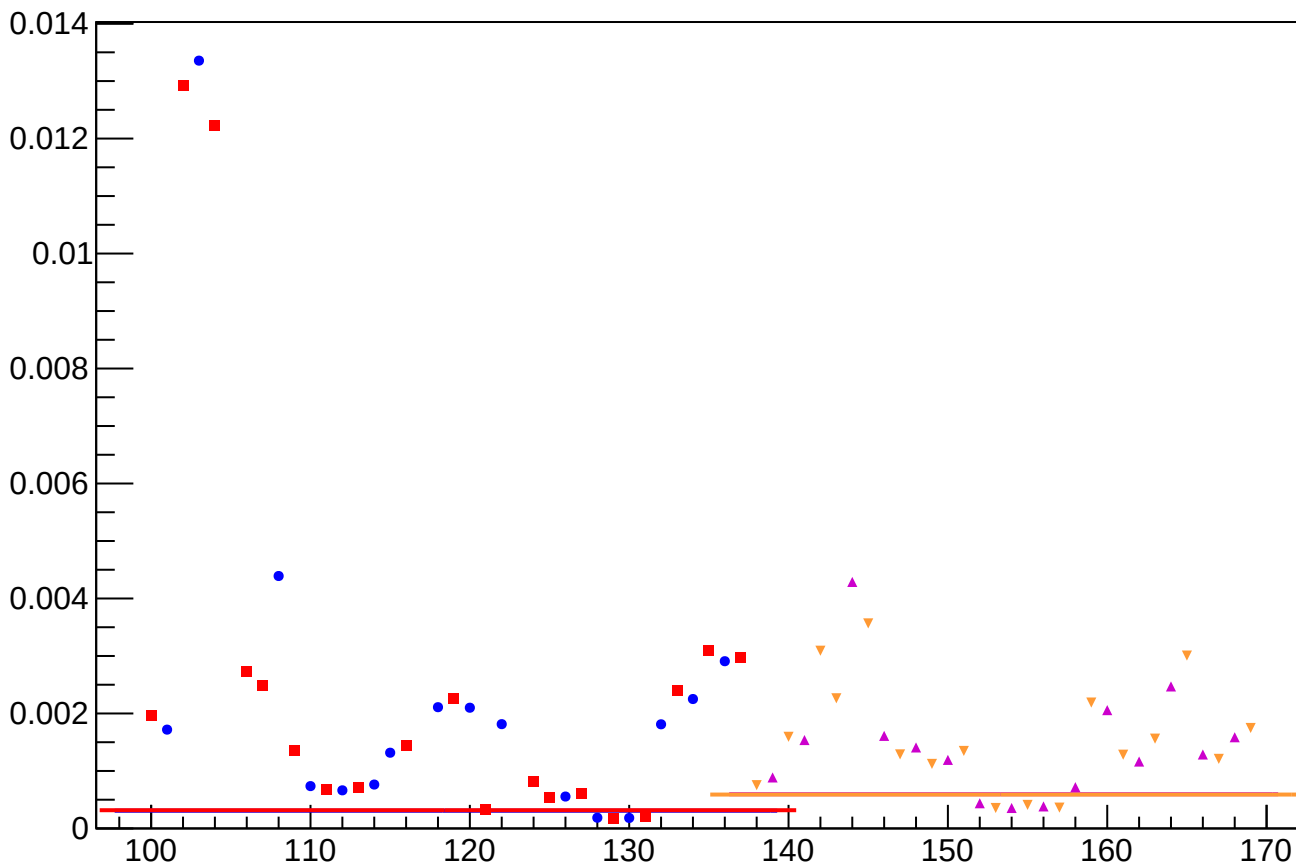
Right: 0.000 ± 0.000 χ^2/NDF : 29.4/34

In: -0.000 ± 0.000 χ^2/NDF : 22.2/30

Out: 0.000 ± 0.000 χ^2/NDF : 53.8/35

All: 0.000 ± 0.000 χ^2/NDF : 81.4/66

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8756212.9/15

Left Out: 0.001+/-0.000 χ^2/NDF : 9955388.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 8015537.3/18

Left In: 0.001+/-0.000 χ^2/NDF : 8085131.7/14

Left: 0.001+/-0.000 χ^2/NDF : 18041286.2/31

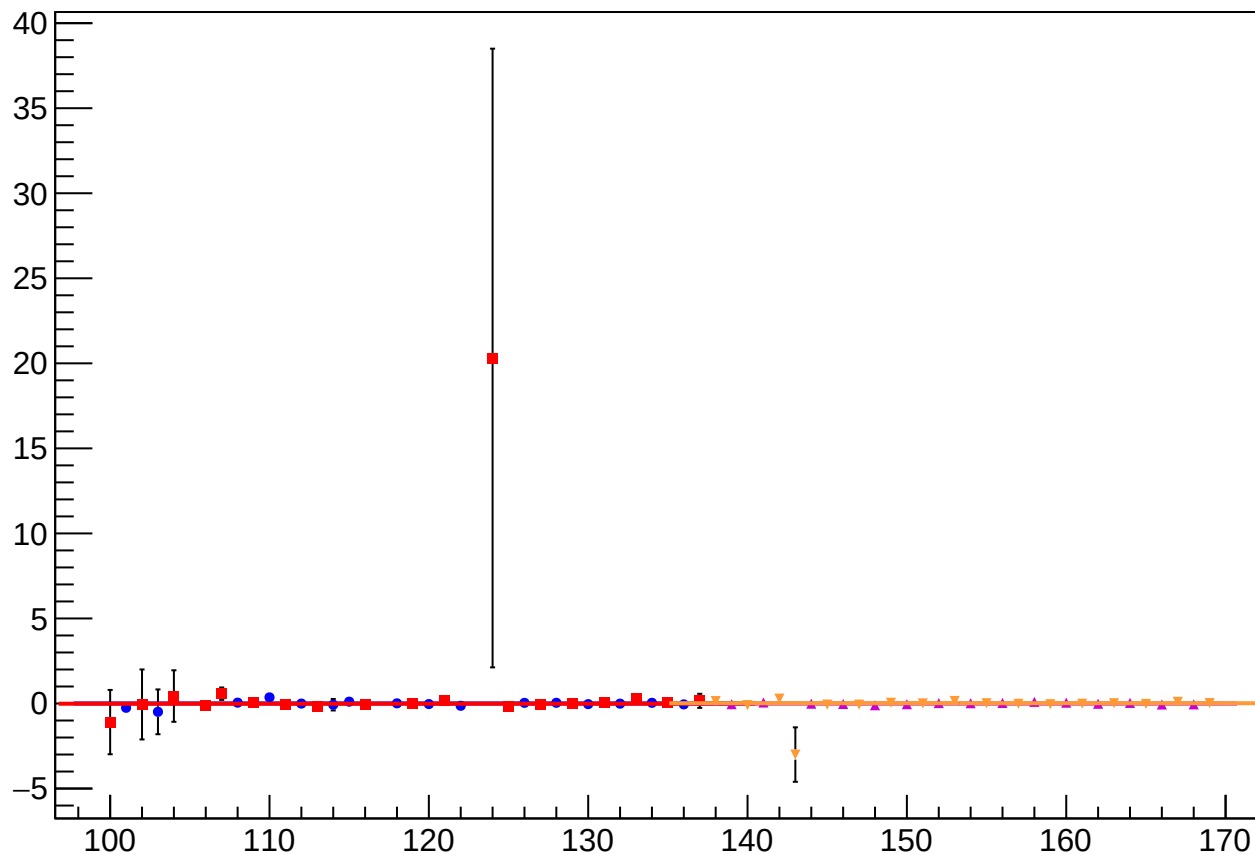
Right: 0.000+/-0.000 χ^2/NDF : 16773891.5/34

In: 0.000+/-0.000 χ^2/NDF : 18765962.8/30

Out: 0.000+/-0.000 χ^2/NDF : 19816691.5/35

All: 0.000+/-0.000 χ^2/NDF : 38586896.3/66

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.027 χ^2 /NDF: 11.4/15

Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:24.3/16

Right Out: -0.013 $\pm$ 0.026 χ^2 /NDF: 17.6/18

Left In: -0.003 $\pm$ 0.015 χ^2 /NDF:13.4/14

Left: 0.007 $\pm$ 0.010 χ^2 /NDF: 38.5/31

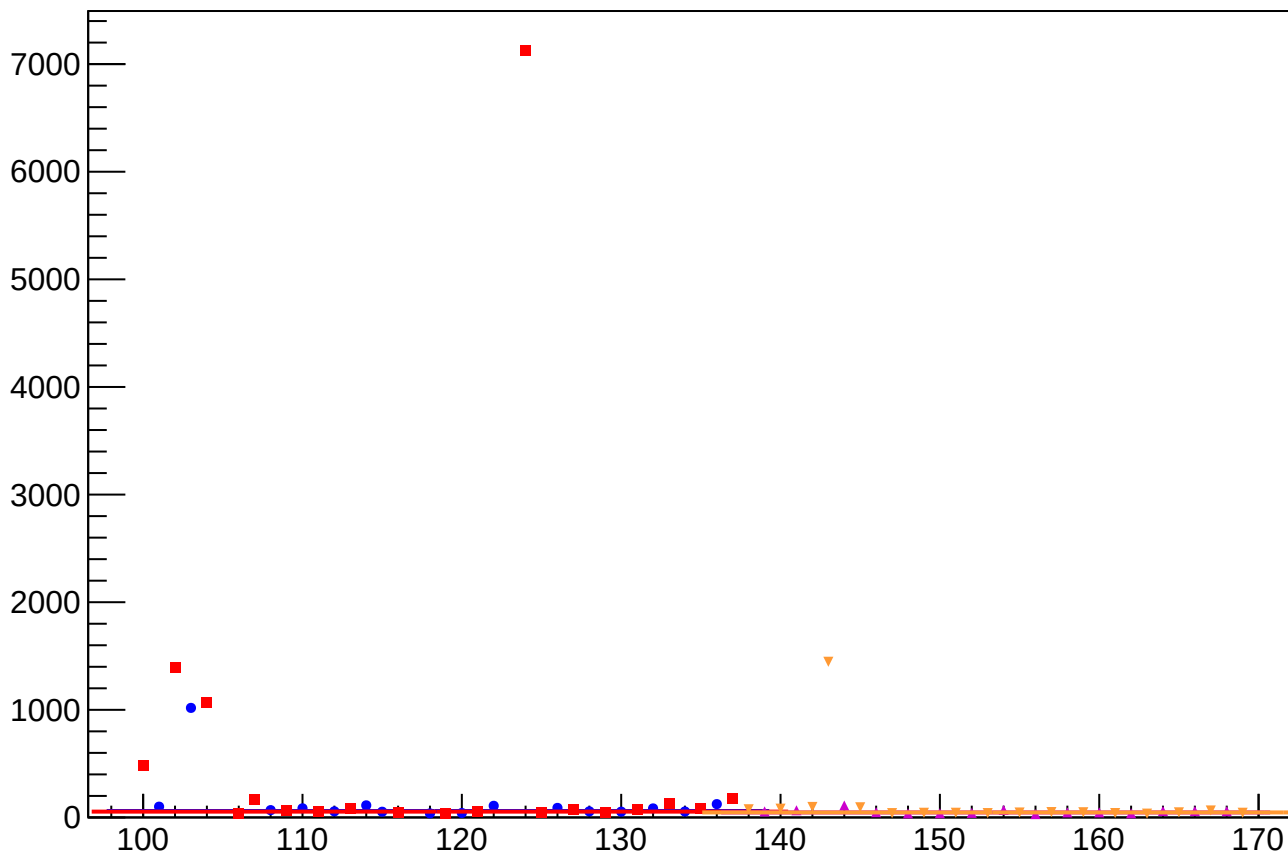
Right: -0.005 $\pm$ 0.019 χ^2 /NDF: 29.2/34

In: -0.002 $\pm$ 0.013 χ^2 /NDF:24.8/30

Out: 0.009 $\pm$ 0.013 χ^2 /NDF:42.8/35

All: 0.004 $\pm$ 0.009 χ^2 /NDF: 68.0/66

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.839+/-0.019 χ^2/NDF : 2538881.2/15

Left Out: 46.725+/-0.010 χ^2/NDF : 2936118.0/16

Right Out: 54.248+/-0.018 χ^2/NDF : 3521640.4/18

Left In: 46.597+/-0.011 χ^2/NDF : 1538504.2/14

Left: 46.662+/-0.007 χ^2/NDF : 4474697.2/31

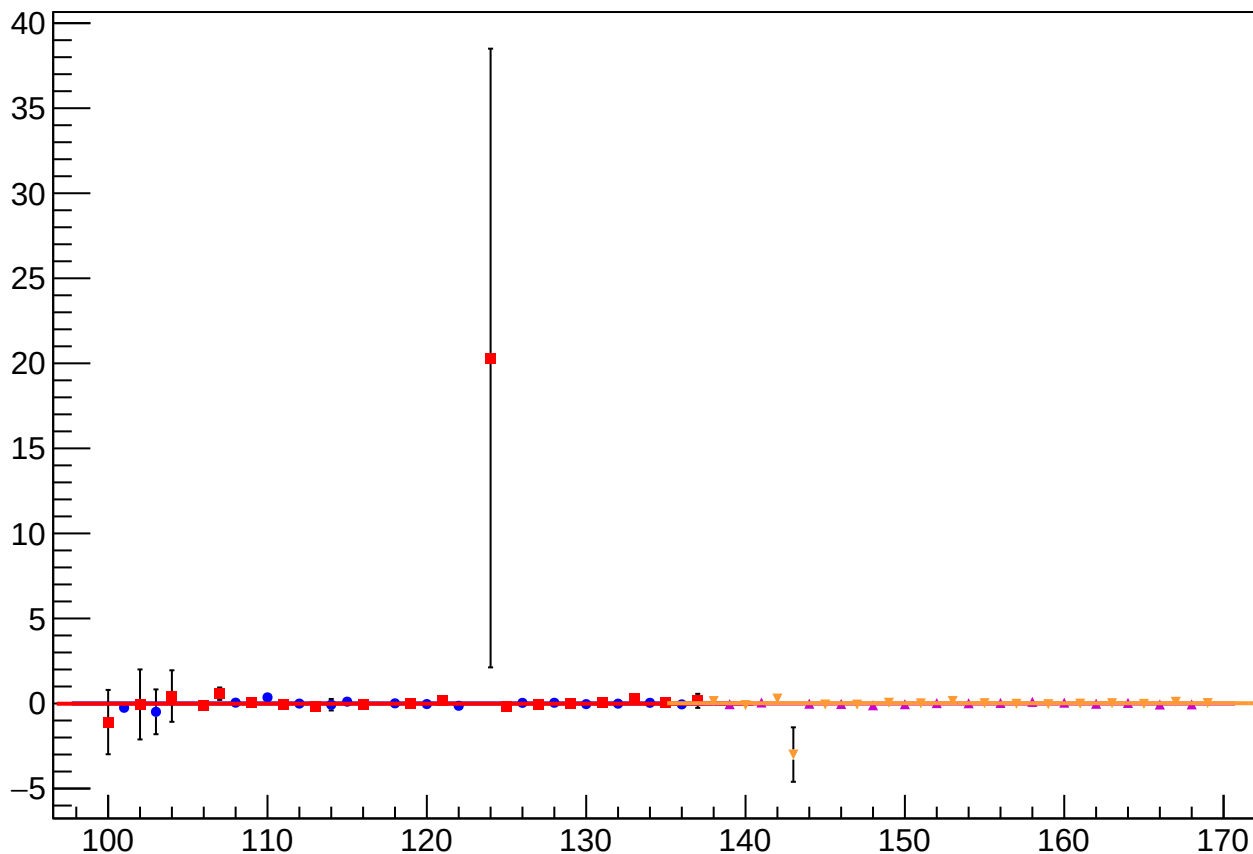
Right: 56.947+/-0.013 χ^2/NDF : 6105839.5/34

In: 49.751+/-0.009 χ^2/NDF : 4451708.5/30

Out: 48.577+/-0.009 χ^2/NDF : 6585834.1/35

All: 49.153+/-0.006 χ^2/NDF : 11045798.4/66

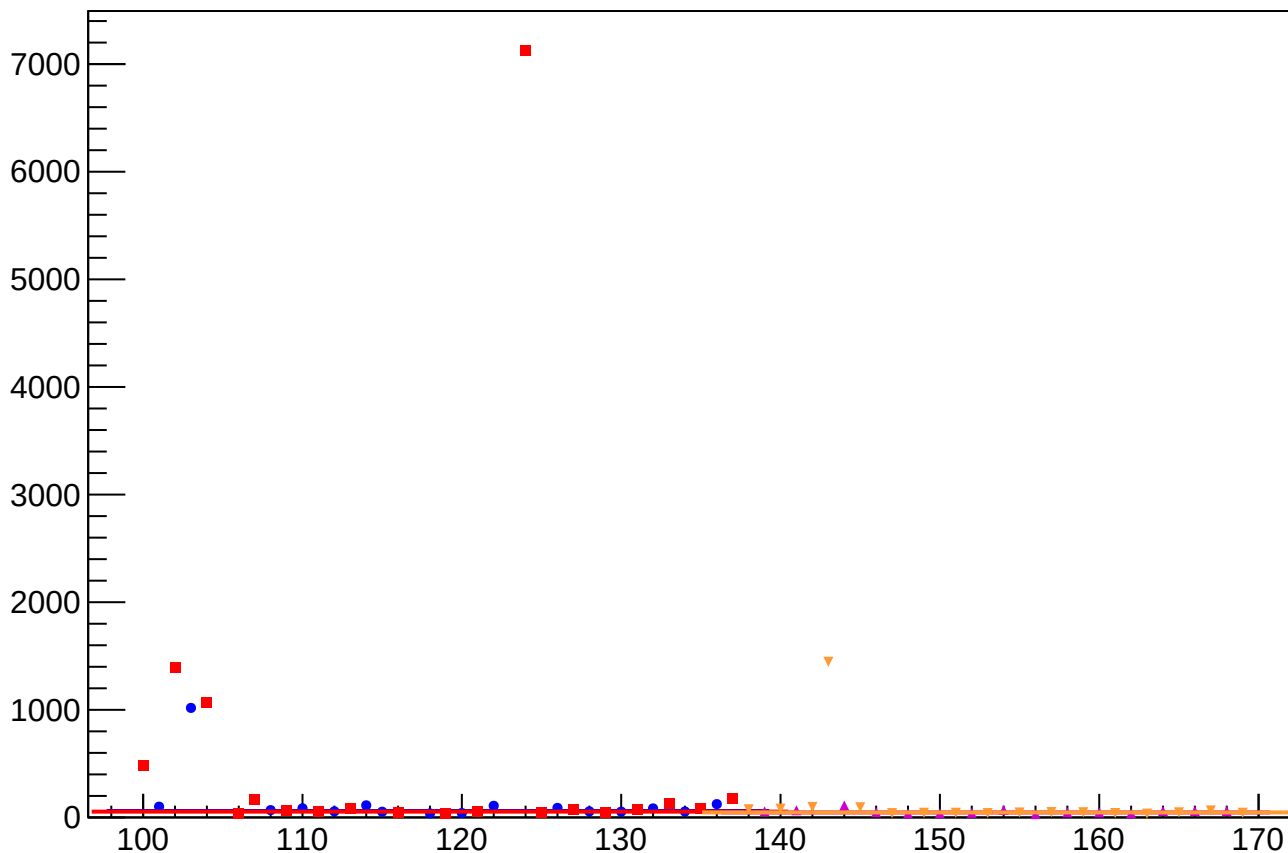
asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.027 χ^2 /NDF: 11.4/15
 Left Out: 0.016 $\pm$ 0.015 χ^2 /NDF:24.3/16
 Right Out: -0.013 $\pm$ 0.026 χ^2 /NDF: 17.6/18
 Left In: -0.003 $\pm$ 0.015 χ^2 /NDF:13.4/14

Left: 0.007 $\pm$ 0.010 χ^2 /NDF: 38.5/31
 Right: -0.005 $\pm$ 0.019 χ^2 /NDF: 29.2/34
 In: -0.002 $\pm$ 0.013 χ^2 /NDF:24.8/30
 Out: 0.009 $\pm$ 0.013 χ^2 /NDF:42.8/35
 All: 0.004 $\pm$ 0.009 χ^2 /NDF: 68.0/66

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.839+/-0.019 χ^2/NDF : 2538881.2/15

Left Out: 46.725+/-0.010 χ^2/NDF : 2936118.0/16

Right Out: 54.248+/-0.018 χ^2/NDF : 3521640.4/18

Left In: 46.597+/-0.011 χ^2/NDF : 1538504.2/14

Left: 46.662+/-0.007 χ^2/NDF : 4474697.2/31

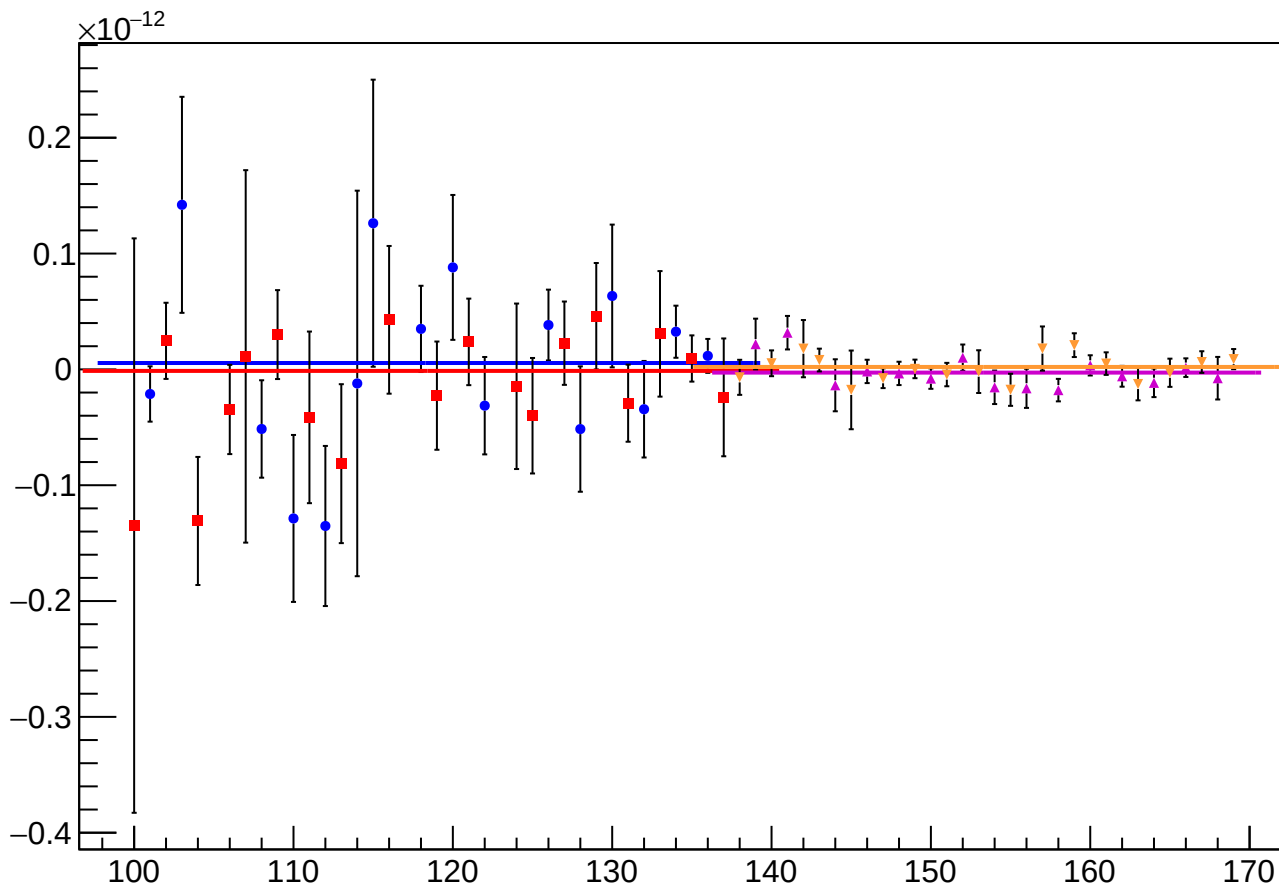
Right: 56.947+/-0.013 χ^2/NDF : 6105839.5/34

In: 49.751+/-0.009 χ^2/NDF : 4451708.5/30

Out: 48.577+/-0.009 χ^2/NDF : 6585834.1/35

All: 49.153+/-0.006 χ^2/NDF : 11045798.4/66

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 22.6/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:11.6/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 14.3/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:14.1/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 27.2/31

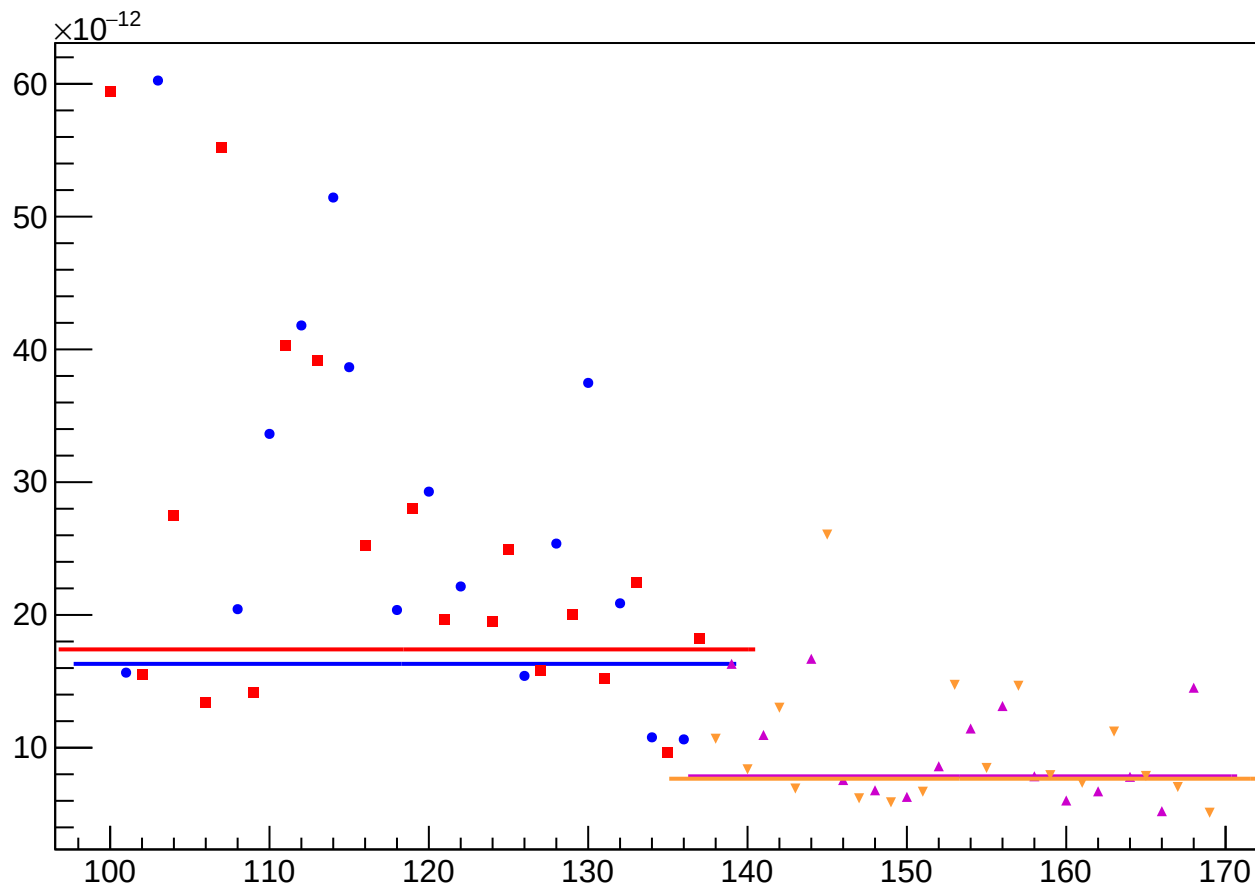
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 37.2/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:37.6/30

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:26.0/35

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 64.6/66

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1895019.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1838674.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1197059.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 1708502.9/14

Left: 0.000+/-0.000 χ^2/NDF : 3551157.0/31

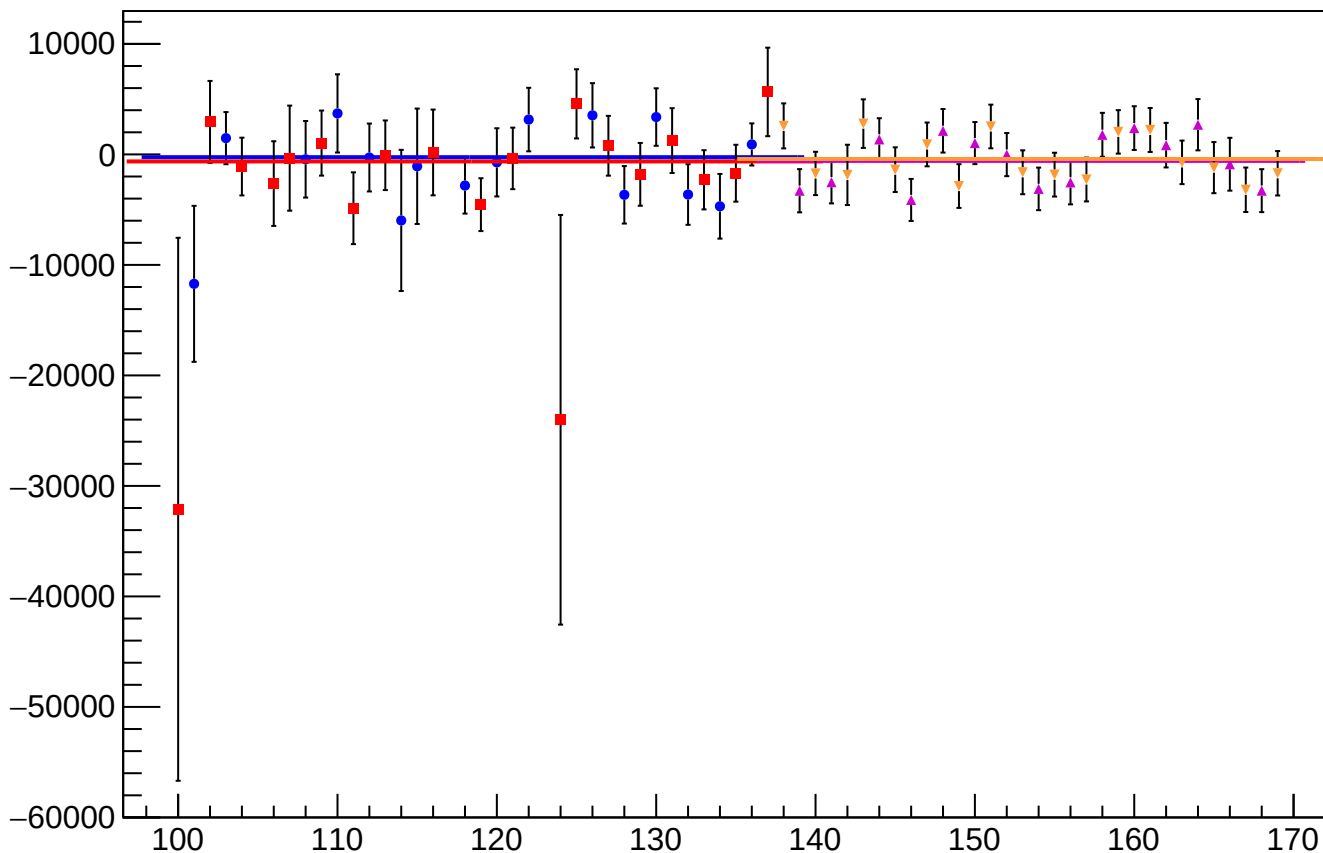
Right: 0.000+/-0.000 χ^2/NDF : 3106014.7/34

In: 0.000+/-0.000 χ^2/NDF : 5328383.5/30

Out: 0.000+/-0.000 χ^2/NDF : 4874581.0/35

All: 0.000+/-0.000 χ^2/NDF : 10217129.5/66

reg_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -251.297+/-735.111 χ^2/NDF : 17.3/15

Left Out: -413.806+/-495.915 χ^2/NDF : 17.0/16

Right Out: -636.082+/-735.477 χ^2/NDF : 15.9/18

Left In: -588.527+/-514.296 χ^2/NDF : 20.9/14

Left: -497.989+/-356.986 χ^2/NDF : 37.9/31

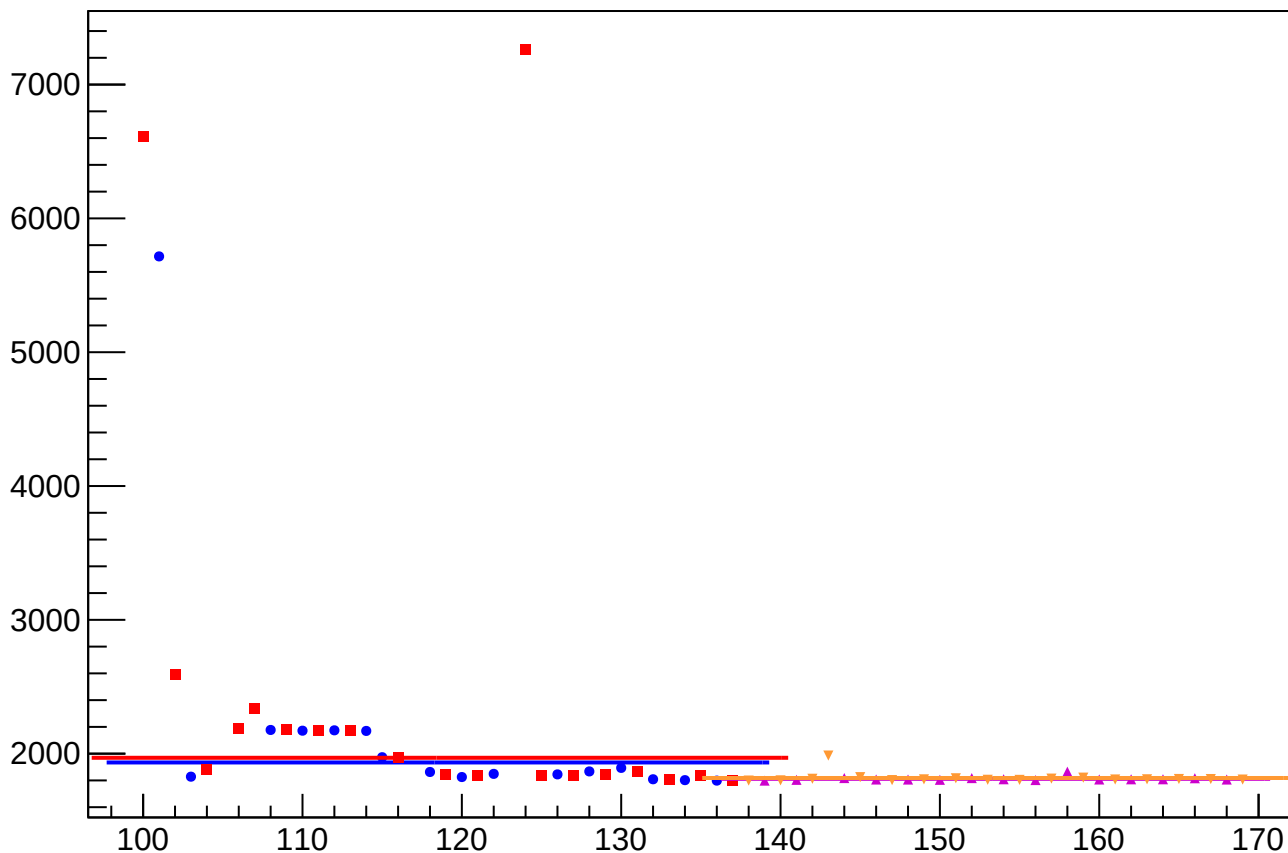
Right: -443.594+/-519.932 χ^2/NDF : 33.3/34

In: -477.707+/-421.404 χ^2/NDF : 38.3/30

Out: -483.278+/-411.177 χ^2/NDF : 32.9/35

All: -480.561+/-294.295 χ^2/NDF : 71.2/66

reg_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1934.217+/-0.520 χ^2/NDF : 639920.0/15

Left Out: 1818.185+/-0.351 χ^2/NDF :12620.6/16

Right Out: 1969.204+/-0.520 χ^2/NDF : 378378.8/18

Left In: 1811.930+/-0.364 χ^2/NDF :1752.0/14

Left: 1815.171+/-0.252 χ^2/NDF : 14525.8/31

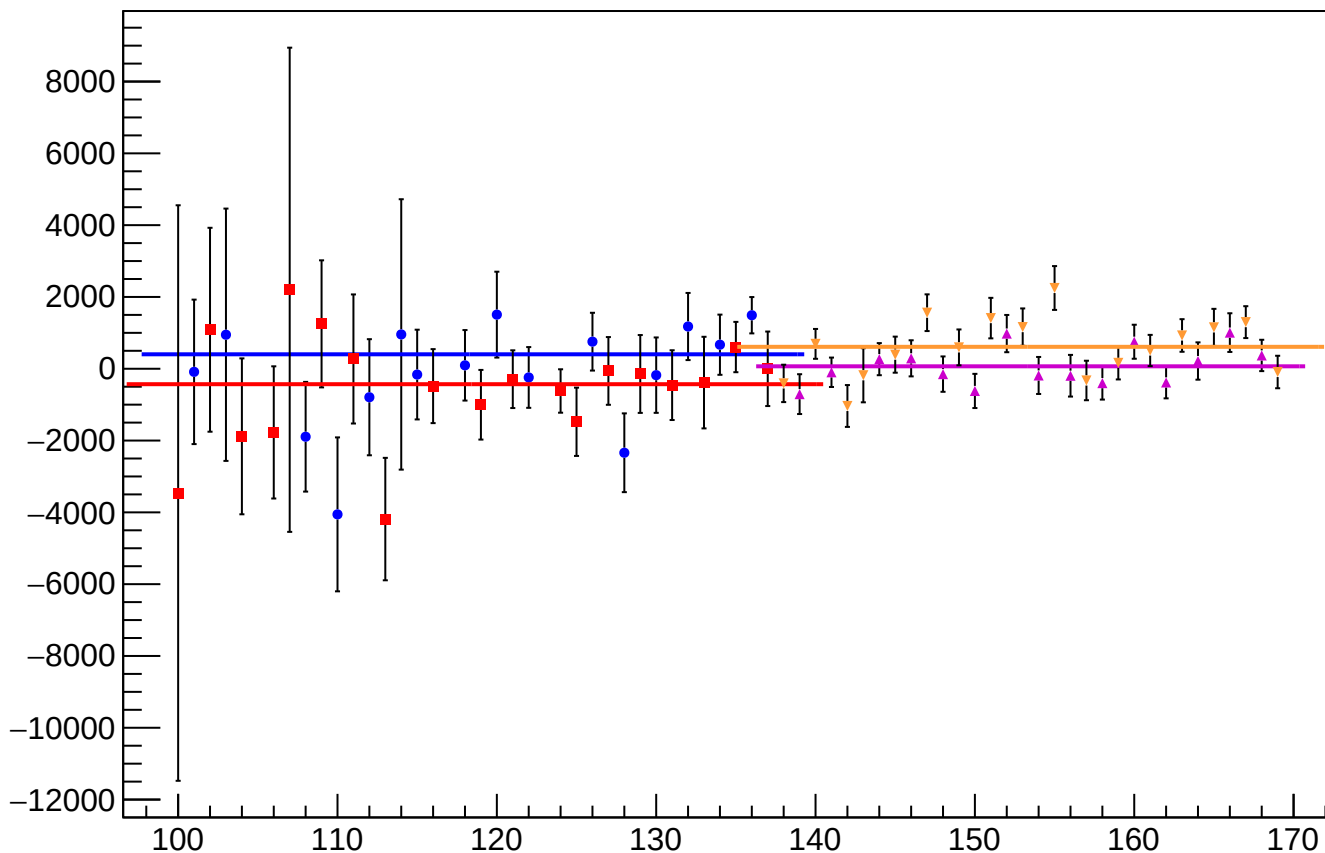
Right: 1951.702+/-0.368 χ^2/NDF : 1020563.0/34

In: 1852.116+/-0.298 χ^2/NDF :678829.7/30

Out: 1865.386+/-0.291 χ^2/NDF :448968.9/35

All: 1858.914+/-0.208 χ^2/NDF : 1128814.6/66

asym_at1_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 402.626+/-258.574 χ^2/NDF : 21.1/15

Left Out: 611.004+/-121.859 χ^2/NDF : 37.2/16

Right Out: -430.066+/-252.823 χ^2/NDF : 11.7/18

Left In: 68.074+/-125.160 χ^2/NDF : 16.1/14

Left: 346.793+/-87.311 χ^2/NDF : 63.0/31

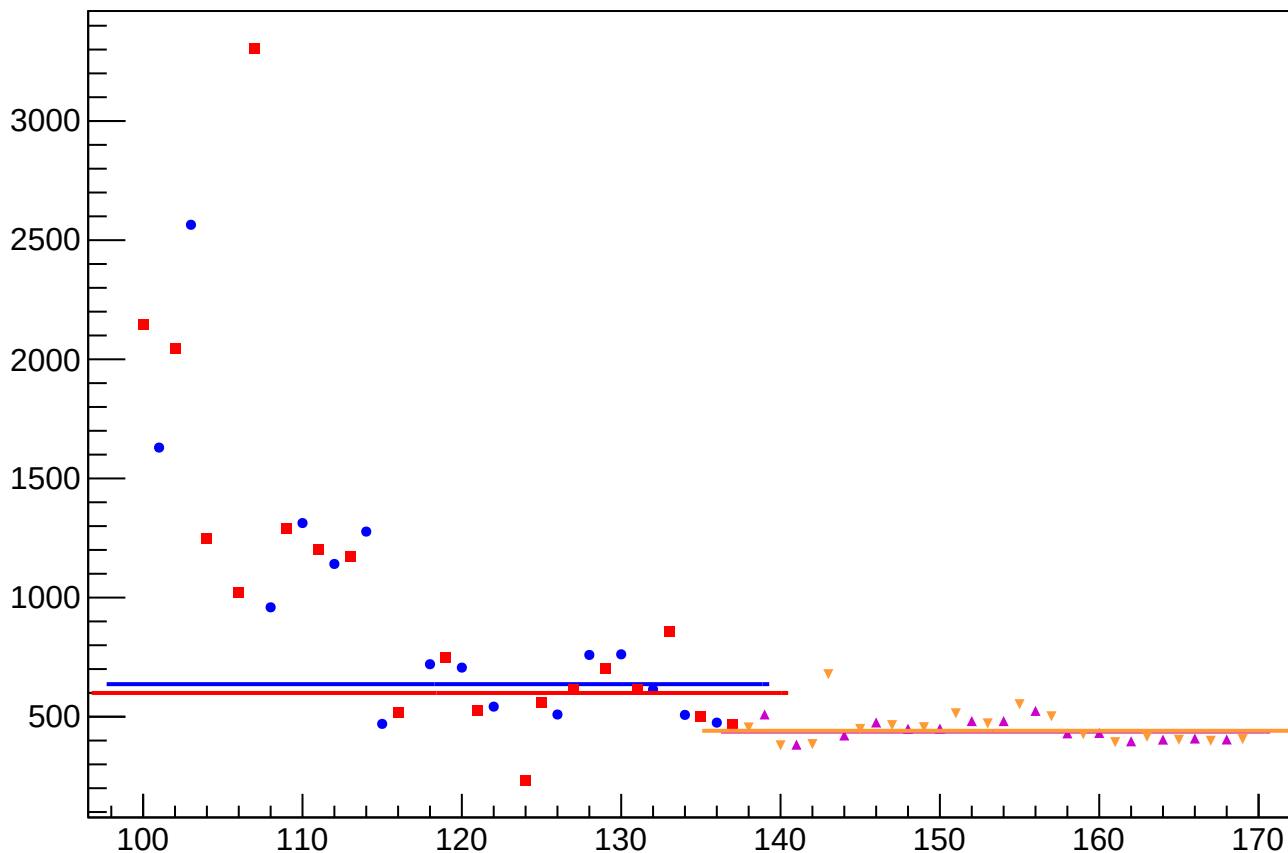
Right: -23.083+/-180.772 χ^2/NDF : 38.2/34

In: 131.579+/-112.656 χ^2/NDF : 38.6/30

Out: 414.742+/-109.773 χ^2/NDF : 62.7/35

All: 276.830+/-78.621 χ^2/NDF : 104.5/66

asym_at1_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 636.700 $\pm$ 0.183 χ^2 /NDF: 2066891.4/15

Left Out: 441.040 $\pm$ 0.086 χ^2 /NDF: 472143.6/16

Right Out: 599.631 $\pm$ 0.179 χ^2 /NDF: 2944100.6/18

Left In: 437.738 $\pm$ 0.089 χ^2 /NDF: 203666.2/14

Left: 439.433 $\pm$ 0.062 χ^2 /NDF: 676524.6/31

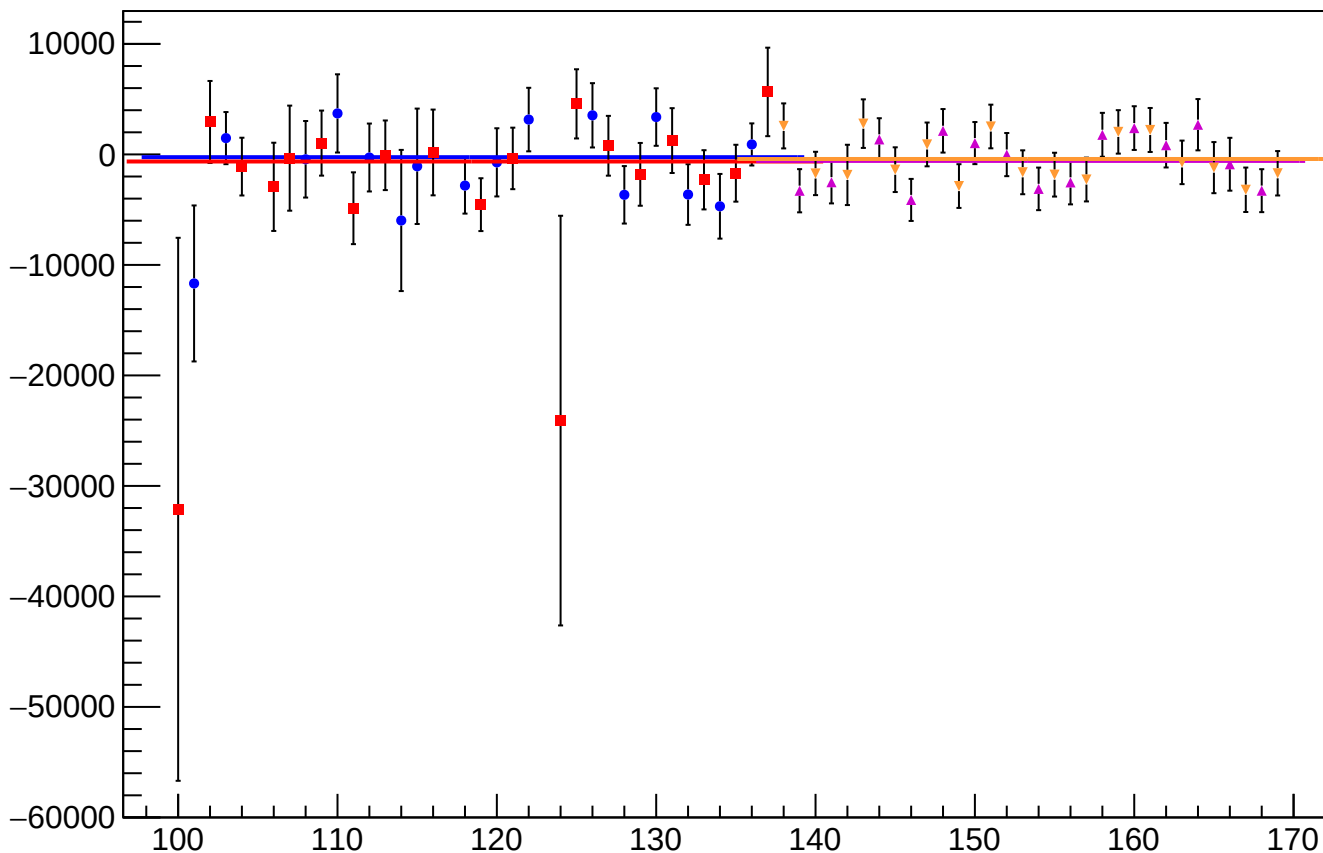
Right: 617.749 $\pm$ 0.128 χ^2 /NDF: 5032005.8/34

In: 475.505 $\pm$ 0.080 χ^2 /NDF: 3229915.7/30

Out: 470.938 $\pm$ 0.078 χ^2 /NDF: 4054845.2/35

All: 473.162 $\pm$ 0.056 χ^2 /NDF: 7286447.1/66

cor_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -250.487 $\pm$ 735.112 χ^2 /NDF: 17.2/15

Left Out: -413.852 $\pm$ 495.915 χ^2 /NDF:16.9/16

Right Out: -640.865 $\pm$ 736.549 χ^2 /NDF: 16.0/18

Left In: -588.526 $\pm$ 514.296 χ^2 /NDF:20.9/14

Left: -498.012 $\pm$ 356.986 χ^2 /NDF: 37.9/31

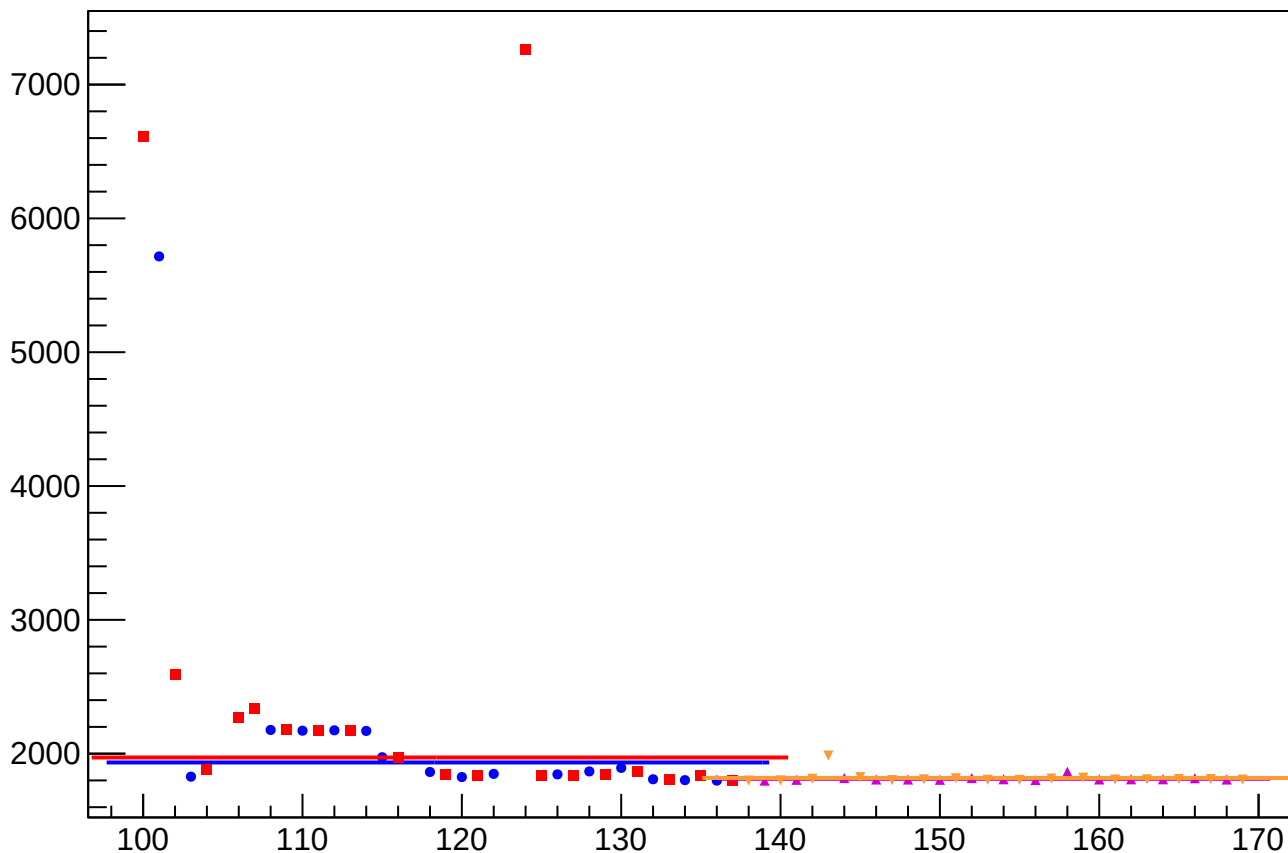
Right: -445.295 $\pm$ 520.310 χ^2 /NDF: 33.3/34

In: -477.441 $\pm$ 421.404 χ^2 /NDF:38.3/30

Out: -484.663 $\pm$ 411.364 χ^2 /NDF:33.0/35

All: -481.139 $\pm$ 294.364 χ^2 /NDF: 71.3/66

cor_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1934.217+/-0.520 χ^2/NDF : 639919.9/15

Left Out: 1818.185+/-0.351 χ^2/NDF :12620.6/16

Right Out: 1971.357+/-0.521 χ^2/NDF : 383176.6/18

Left In: 1811.930+/-0.364 χ^2/NDF :1752.0/14

Left: 1815.171+/-0.252 χ^2/NDF : 14525.8/31

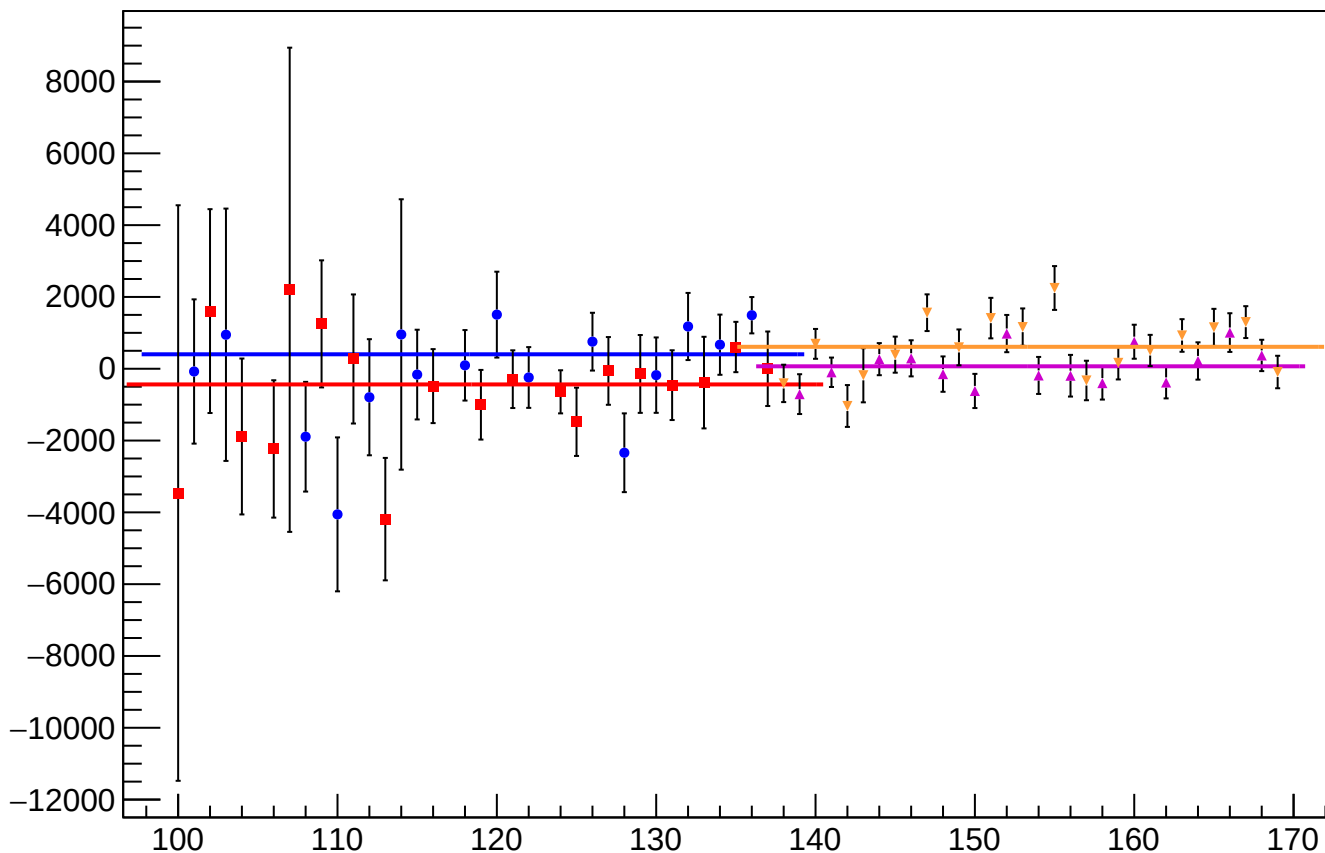
Right: 1952.750+/-0.368 χ^2/NDF : 1025644.1/34

In: 1852.116+/-0.298 χ^2/NDF :678829.6/30

Out: 1865.963+/-0.291 χ^2/NDF :455311.8/35

All: 1859.206+/-0.208 χ^2/NDF : 1135247.1/66

asym_at1_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 402.701+/-258.564 χ^2/NDF : 21.1/15

Left Out: 610.938+/-121.859 χ^2/NDF : 37.2/16

Right Out: -436.691+/-252.672 χ^2/NDF : 12.4/18

Left In: 68.097+/-125.159 χ^2/NDF : 16.1/14

Left: 346.768+/-87.311 χ^2/NDF : 63.0/31

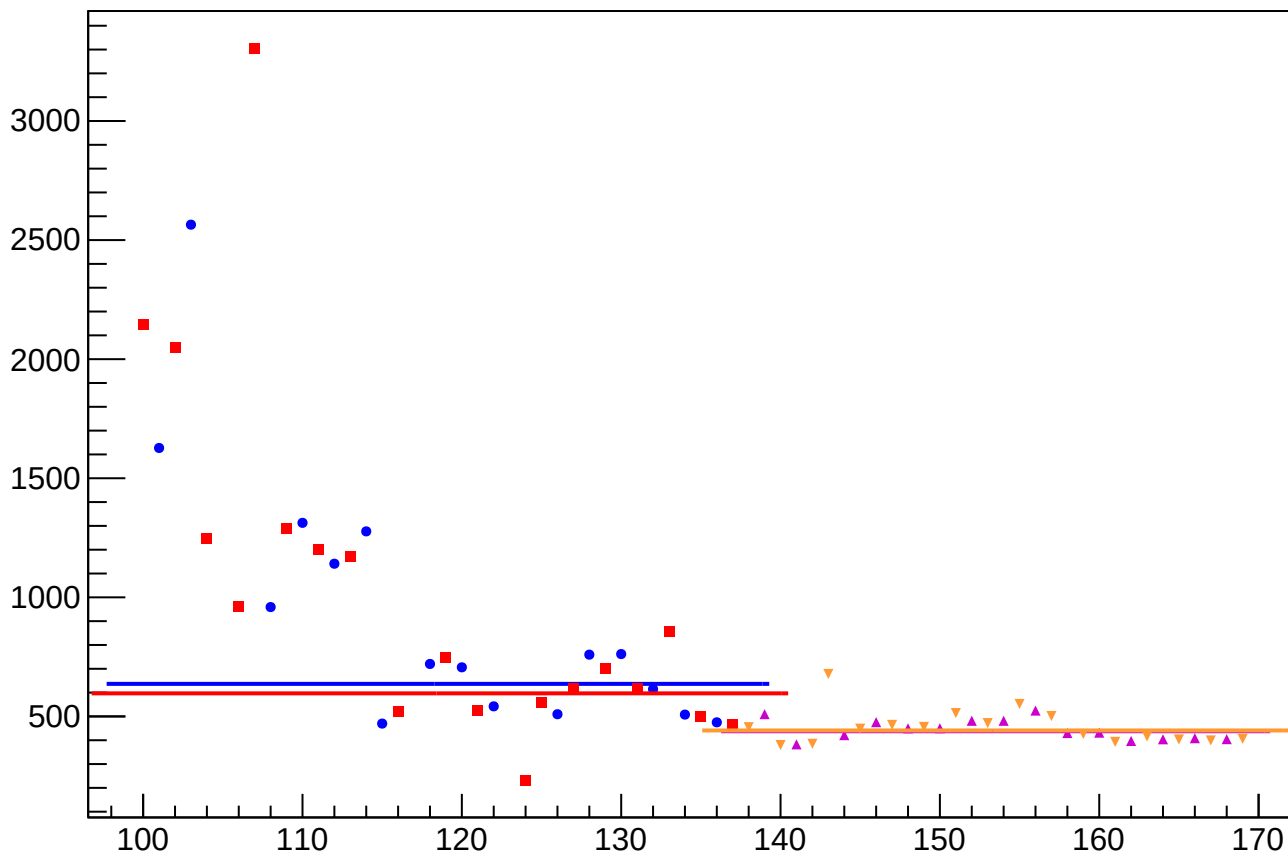
Right: -26.666+/-180.713 χ^2/NDF : 38.9/34

In: 131.615+/-112.655 χ^2/NDF : 38.6/30

Out: 413.247+/-109.761 χ^2/NDF : 63.5/35

All: 276.095+/-78.616 χ^2/NDF : 105.3/66

asym_at1_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 636.698 $\pm$ 0.183 χ^2 /NDF: 2066022.1/15

Left Out: 441.042 $\pm$ 0.086 χ^2 /NDF: 472100.4/16

Right Out: 596.862 $\pm$ 0.179 χ^2 /NDF: 2930443.7/18

Left In: 437.735 $\pm$ 0.089 χ^2 /NDF: 203664.2/14

Left: 439.433 $\pm$ 0.062 χ^2 /NDF: 676481.6/31

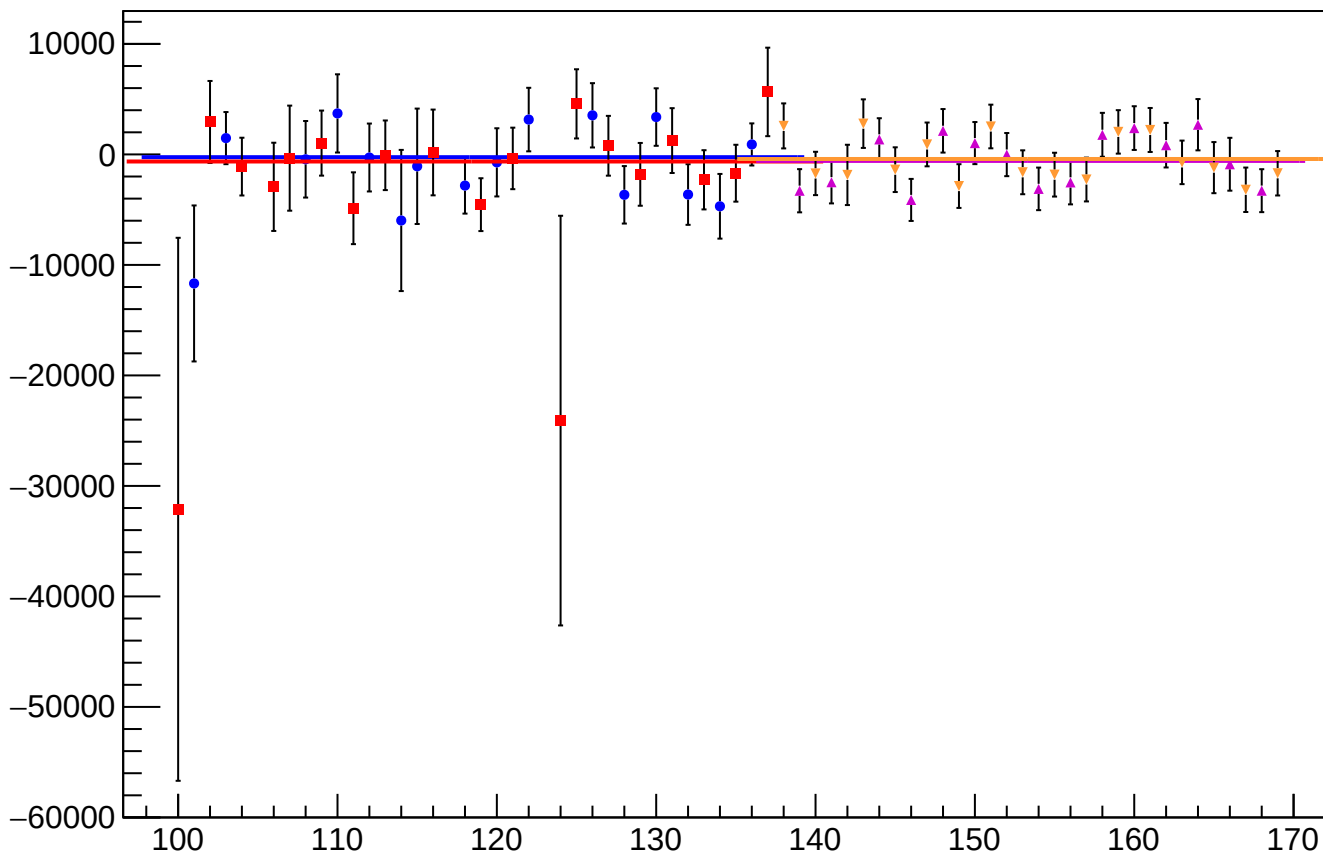
Right: 616.321 $\pm$ 0.128 χ^2 /NDF: 5020749.4/34

In: 475.504 $\pm$ 0.080 χ^2 /NDF: 3229126.2/30

Out: 470.446 $\pm$ 0.078 χ^2 /NDF: 4019620.9/35

All: 472.909 $\pm$ 0.056 χ^2 /NDF: 7250815.5/66

eigen_cor_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -250.487 ± 735.112 $\chi^2/\text{NDF}: 17.2/15$

Left Out: -413.852 ± 495.915 $\chi^2/\text{NDF}: 16.9/16$

Right Out: -640.865 ± 736.549 $\chi^2/\text{NDF}: 16.0/18$

Left In: -588.526 ± 514.296 $\chi^2/\text{NDF}: 20.9/14$

Left: -498.012 ± 356.986 $\chi^2/\text{NDF}: 37.9/31$

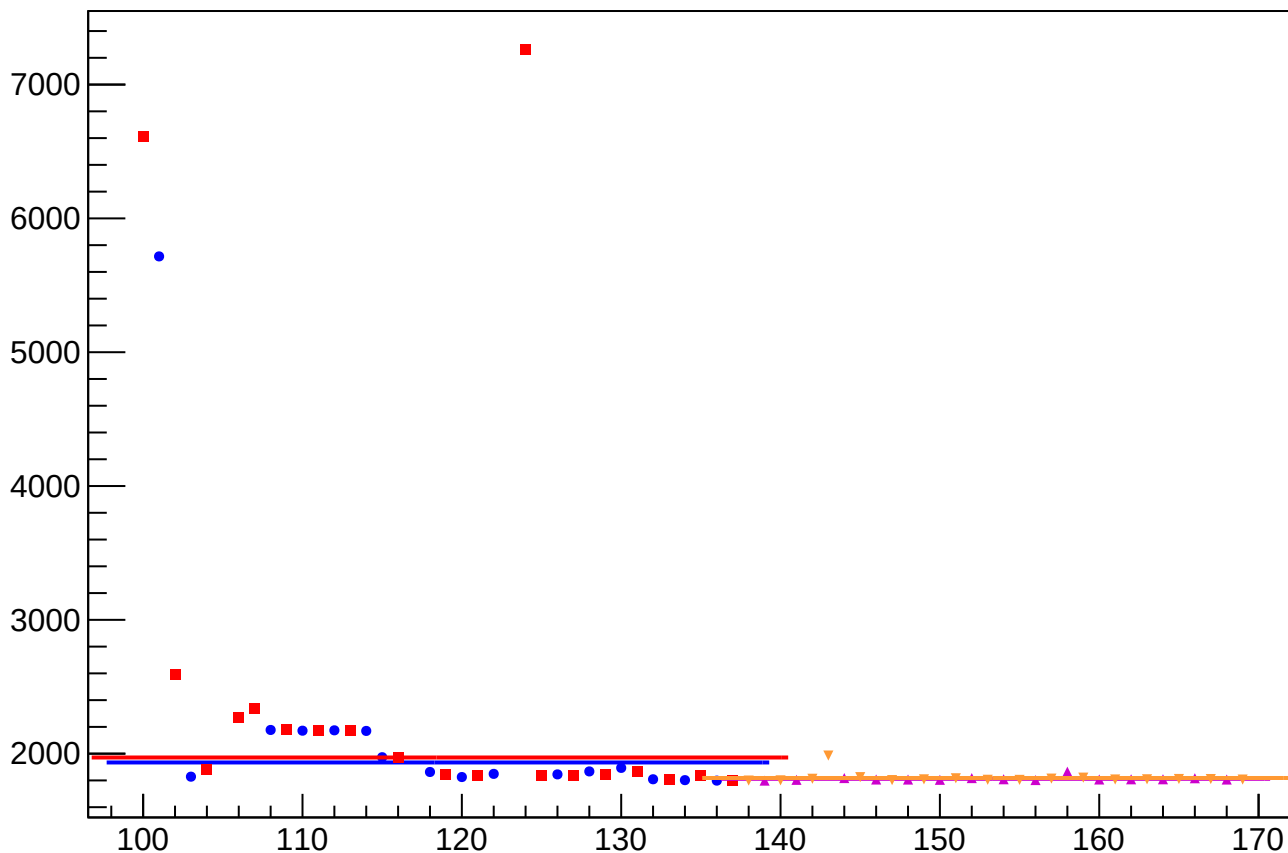
Right: -445.295 ± 520.310 $\chi^2/\text{NDF}: 33.3/34$

In: -477.441 ± 421.404 $\chi^2/\text{NDF}: 38.3/30$

Out: -484.663 ± 411.364 $\chi^2/\text{NDF}: 33.0/35$

All: -481.139 ± 294.364 $\chi^2/\text{NDF}: 71.3/66$

eigen_cor_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1934.217+/-0.520 χ^2/NDF : 639919.9/15

Left Out: 1818.185+/-0.351 χ^2/NDF :12620.6/16

Right Out: 1971.357+/-0.521 χ^2/NDF : 383176.6/18

Left In: 1811.930+/-0.364 χ^2/NDF :1752.0/14

Left: 1815.171+/-0.252 χ^2/NDF : 14525.8/31

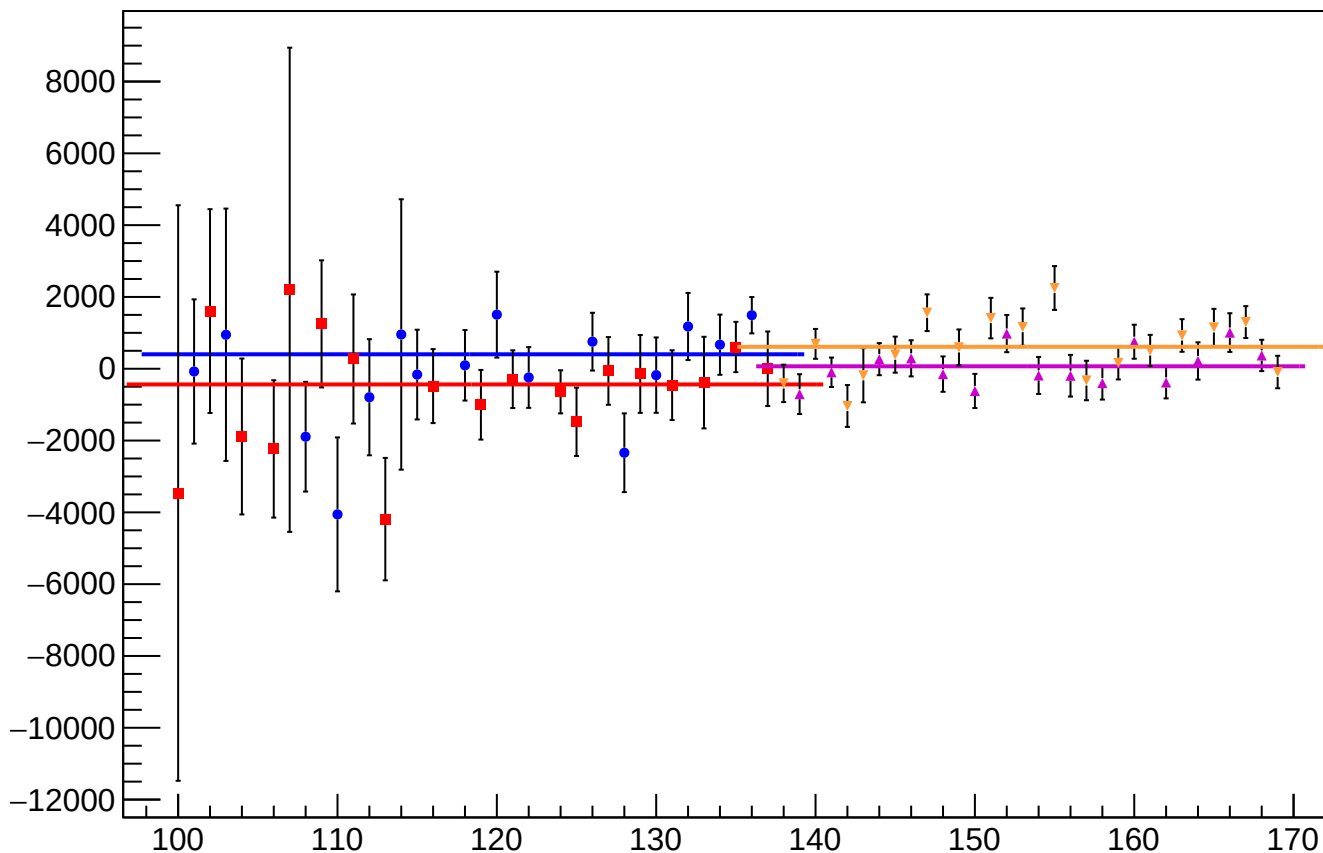
Right: 1952.750+/-0.368 χ^2/NDF : 1025644.1/34

In: 1852.116+/-0.298 χ^2/NDF :678829.6/30

Out: 1865.963+/-0.291 χ^2/NDF :455311.8/35

All: 1859.206+/-0.208 χ^2/NDF : 1135247.1/66

asym_at1_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 402.701 $\pm$ 258.564 χ^2 /NDF: 21.1/15

Left Out: 610.938 $\pm$ 121.859 χ^2 /NDF:37.2/16

Right Out: -436.691 $\pm$ 252.672 χ^2 /NDF: 12.4/18

Left In: 68.097 $\pm$ 125.159 χ^2 /NDF:16.1/14

Left: 346.768 $\pm$ 87.311 χ^2 /NDF: 63.0/31

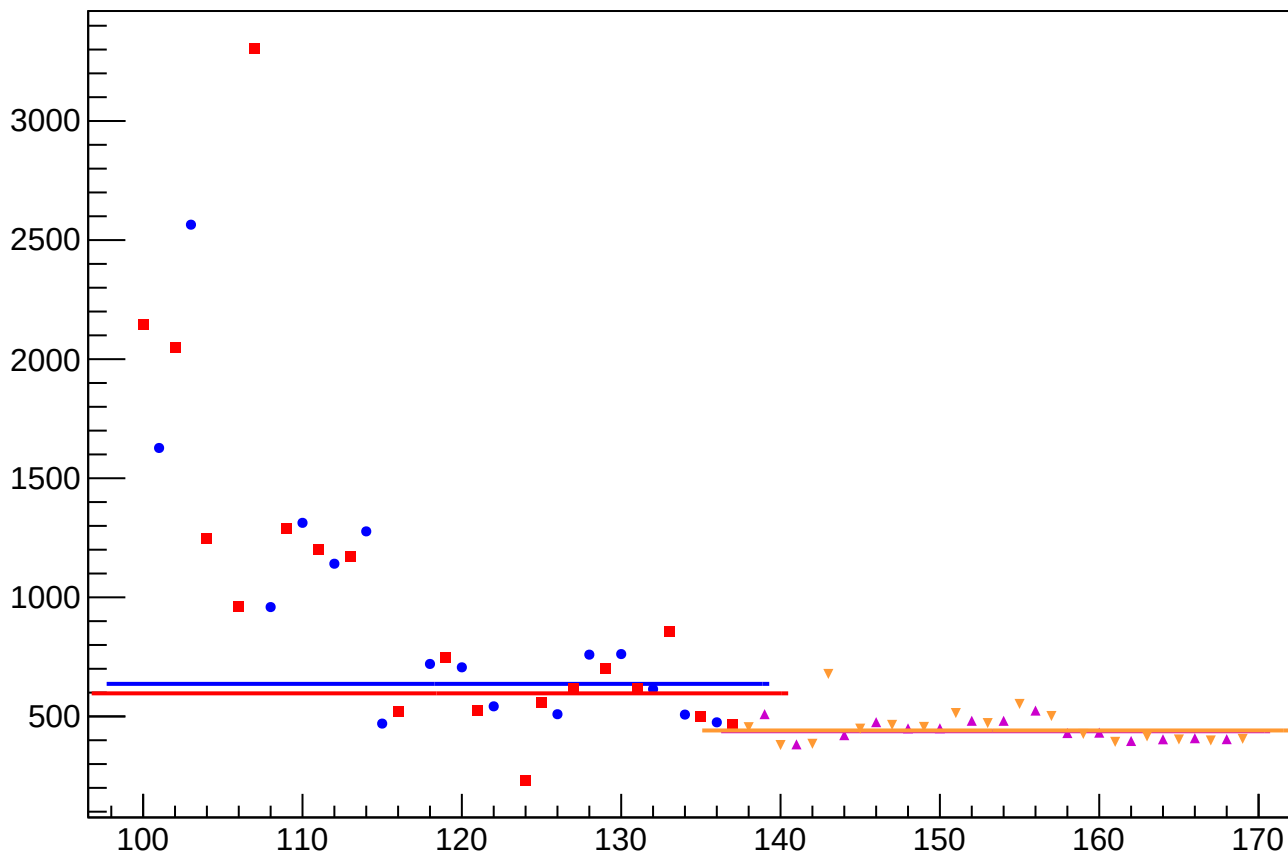
Right: -26.666 $\pm$ 180.713 χ^2 /NDF: 38.9/34

In: 131.615 $\pm$ 112.655 χ^2 /NDF:38.6/30

Out: 413.247 $\pm$ 109.761 χ^2 /NDF:63.5/35

All: 276.095 $\pm$ 78.616 χ^2 /NDF: 105.3/66

asym_at1_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 636.698 $\pm$ 0.183 χ^2 /NDF: 2066022.1/15

Left Out: 441.042 $\pm$ 0.086 χ^2 /NDF: 472100.4/16

Right Out: 596.862 $\pm$ 0.179 χ^2 /NDF: 2930443.7/18

Left In: 437.735 $\pm$ 0.089 χ^2 /NDF: 203664.2/14

Left: 439.433 $\pm$ 0.062 χ^2 /NDF: 676481.6/31

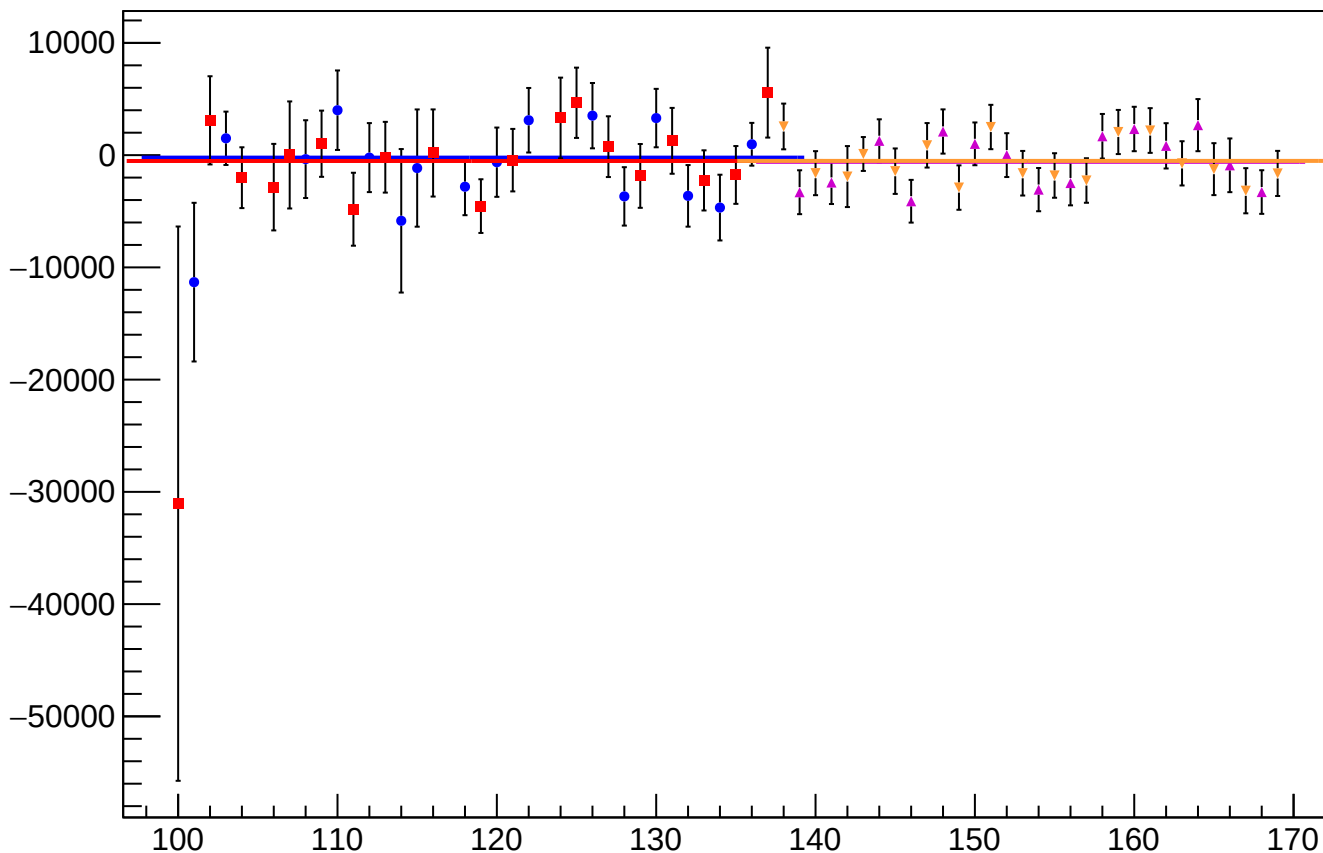
Right: 616.321 $\pm$ 0.128 χ^2 /NDF: 5020749.4/34

In: 475.504 $\pm$ 0.080 χ^2 /NDF: 3229126.2/30

Out: 470.446 $\pm$ 0.078 χ^2 /NDF: 4019620.9/35

All: 472.909 $\pm$ 0.056 χ^2 /NDF: 7250815.5/66

dit_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -220.393+/-735.888 χ^2/NDF : 17.1/15

Left Out: -512.642+/-482.436 χ^2/NDF :14.7/16

Right Out: -520.265+/-724.980 χ^2/NDF : 15.6/18

Left In: -596.172+/-514.471 χ^2/NDF :20.3/14

Left: -551.726+/-351.914 χ^2/NDF : 35.1/31

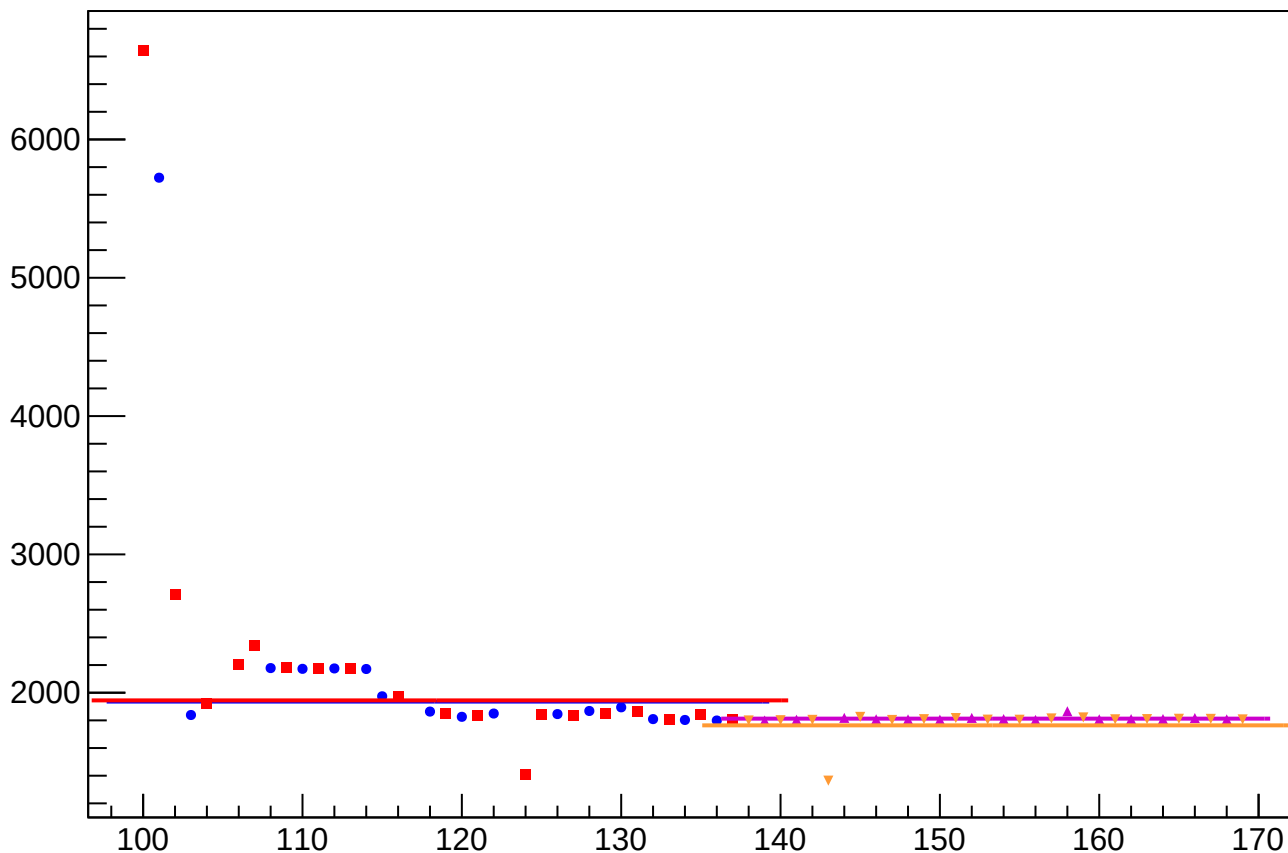
Right: -372.568+/-516.452 χ^2/NDF : 32.8/34

In: -472.803+/-421.646 χ^2/NDF :37.6/30

Out: -514.982+/-401.637 χ^2/NDF :30.3/35

All: -494.917+/-290.817 χ^2/NDF : 68.0/66

dit_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1935.974+/-0.520 χ^2/NDF : 639808.0/15

Left Out: 1763.990+/-0.341 χ^2/NDF :156496.8/16

Right Out: 1944.495+/-0.513 χ^2/NDF : 276223.6/18

Left In: 1812.546+/-0.364 χ^2/NDF :1746.9/14

Left: 1786.709+/-0.249 χ^2/NDF : 167723.2/31

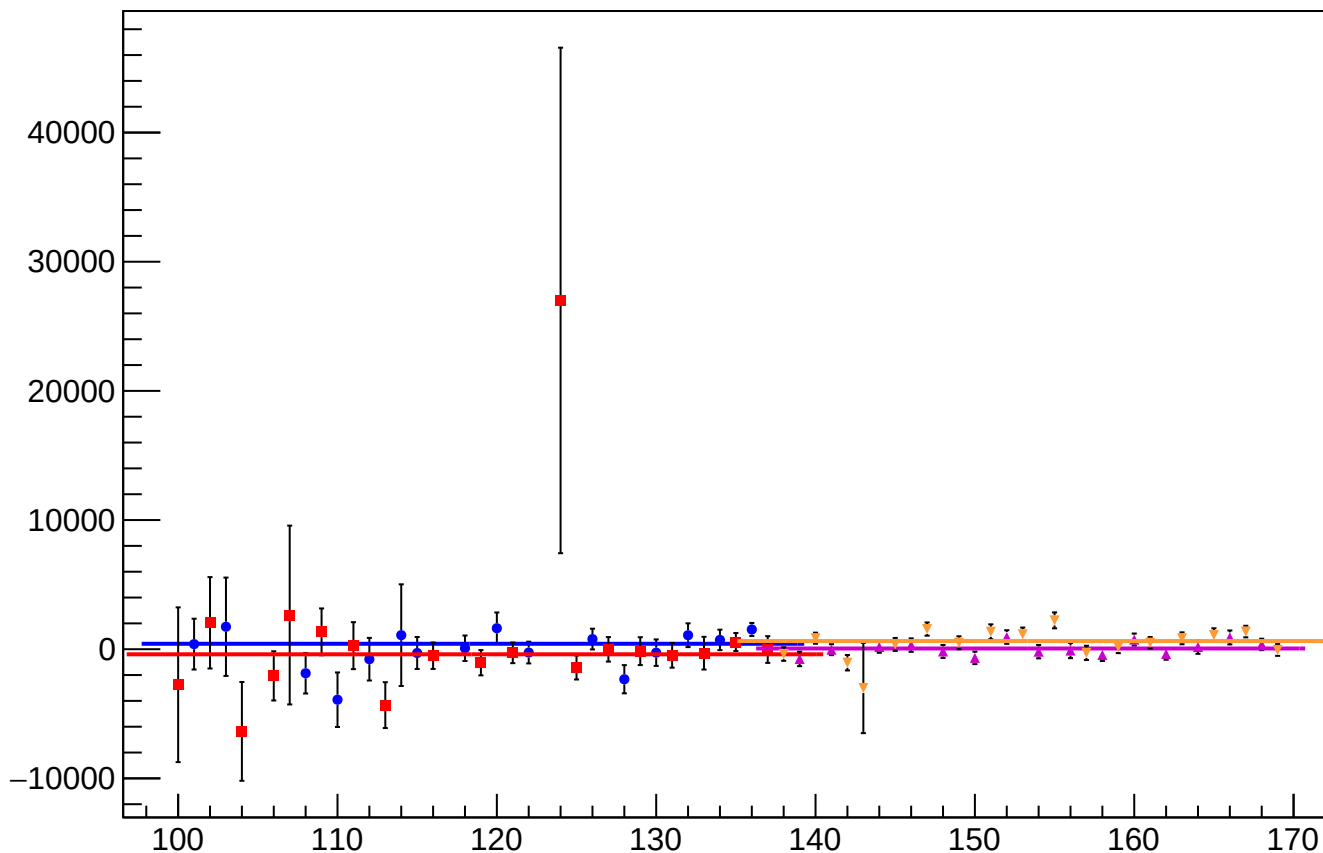
Right: 1940.298+/-0.365 χ^2/NDF : 916167.7/34

In: 1853.067+/-0.298 χ^2/NDF :679348.1/30

Out: 1819.389+/-0.284 χ^2/NDF :518650.4/35

All: 1835.410+/-0.206 χ^2/NDF : 1204688.0/60

asym_at1_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 421.145+/-256.749 χ^2/NDF : 21.5/15

Left Out: 631.244+/-125.148 χ^2/NDF :35.6/16

Right Out: -393.590+/-279.562 χ^2/NDF : 15.9/18

Left In: 55.328+/-127.032 χ^2/NDF :15.2/14

Left: 347.587+/-89.152 χ^2/NDF : 61.3/31

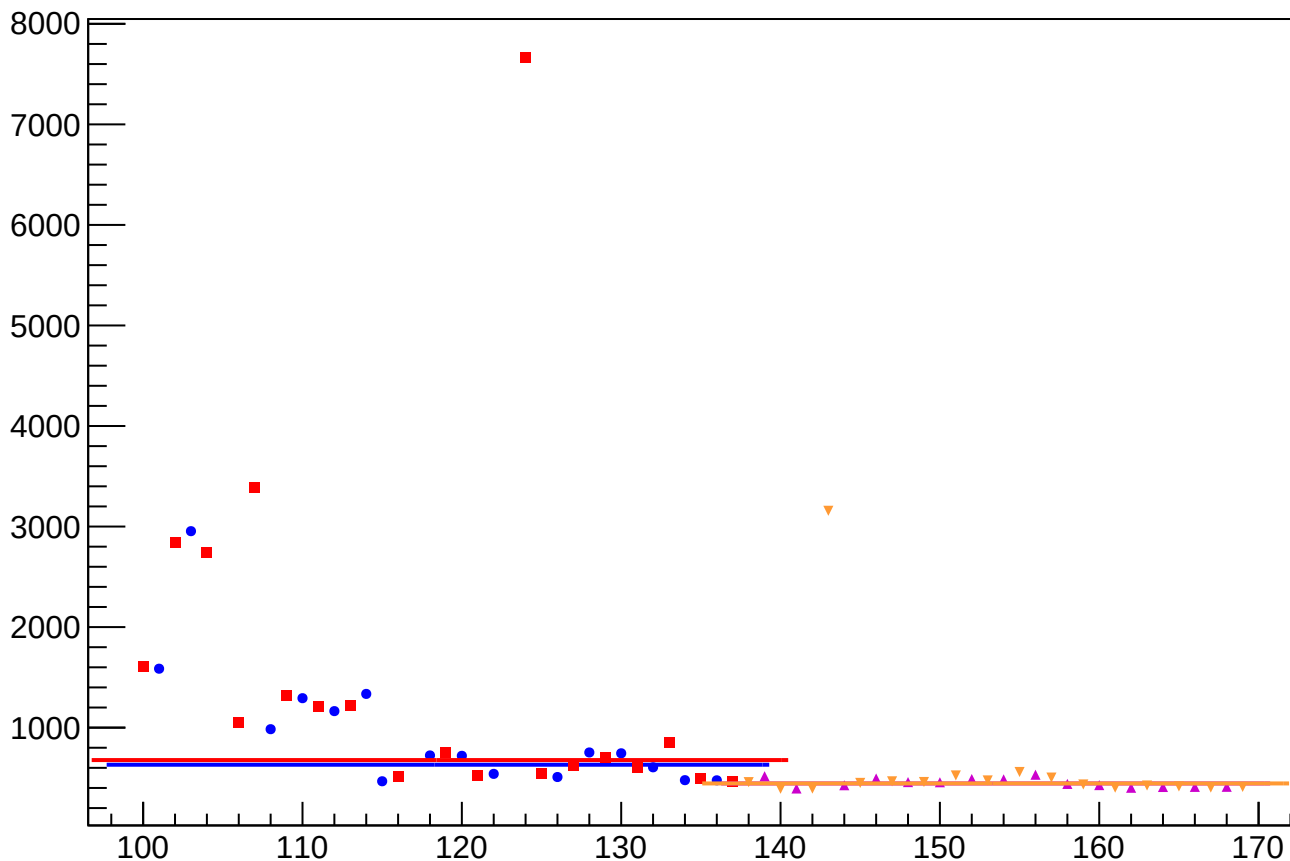
Right: 48.371+/-189.101 χ^2/NDF : 41.9/34

In: 127.268+/-113.858 χ^2/NDF :38.4/30

Out: 460.156+/-114.225 χ^2/NDF :62.6/35

All: 293.175+/-80.639 χ^2/NDF : 105.3/66

asym_at1_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 631.140 $\pm$ 0.182 χ^2 /NDF: 2234480.1/15

Left Out: 444.982 $\pm$ 0.088 χ^2 /NDF:1449060.0/16

Right Out: 677.438 $\pm$ 0.198 χ^2 /NDF: 3081569.8/18

Left In: 444.745 $\pm$ 0.090 χ^2 /NDF:203377.4/14

Left: 444.865 $\pm$ 0.063 χ^2 /NDF: 1652441.0/31

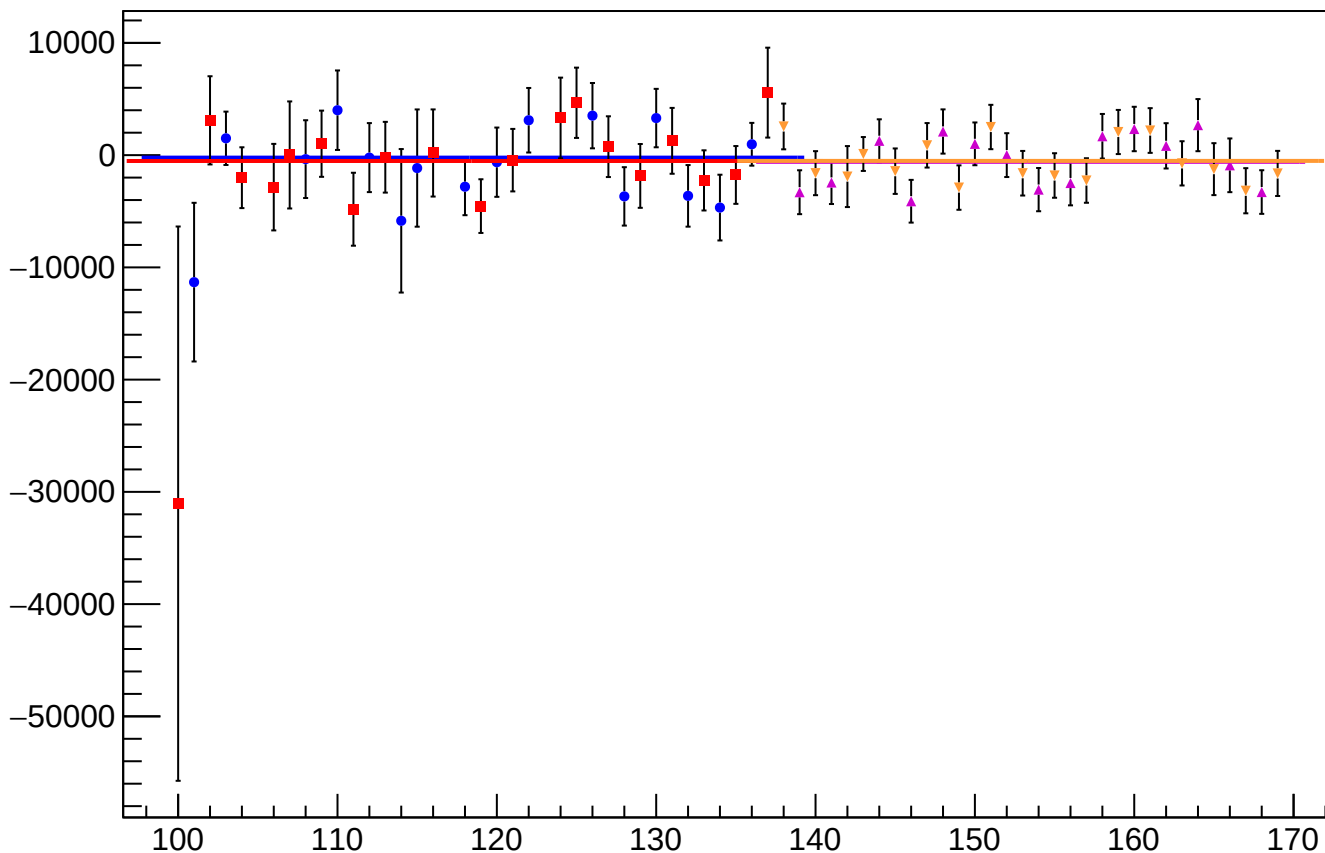
Right: 652.323 $\pm$ 0.134 χ^2 /NDF: 5345805.1/34

In: 481.400 $\pm$ 0.081 χ^2 /NDF:3284658.8/30

Out: 483.789 $\pm$ 0.081 χ^2 /NDF:5682566.0/35

All: 482.591 $\pm$ 0.057 χ^2 /NDF: 8967663.4/66

eigen_dit_asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -220.393+/-735.888 χ^2/NDF : 17.1/15

Left Out: -512.643+/-482.436 χ^2/NDF :14.7/16

Right Out: -520.265+/-724.980 χ^2/NDF : 15.6/18

Left In: -596.171+/-514.471 χ^2/NDF :20.3/14

Left: -551.726+/-351.914 χ^2/NDF : 35.1/31

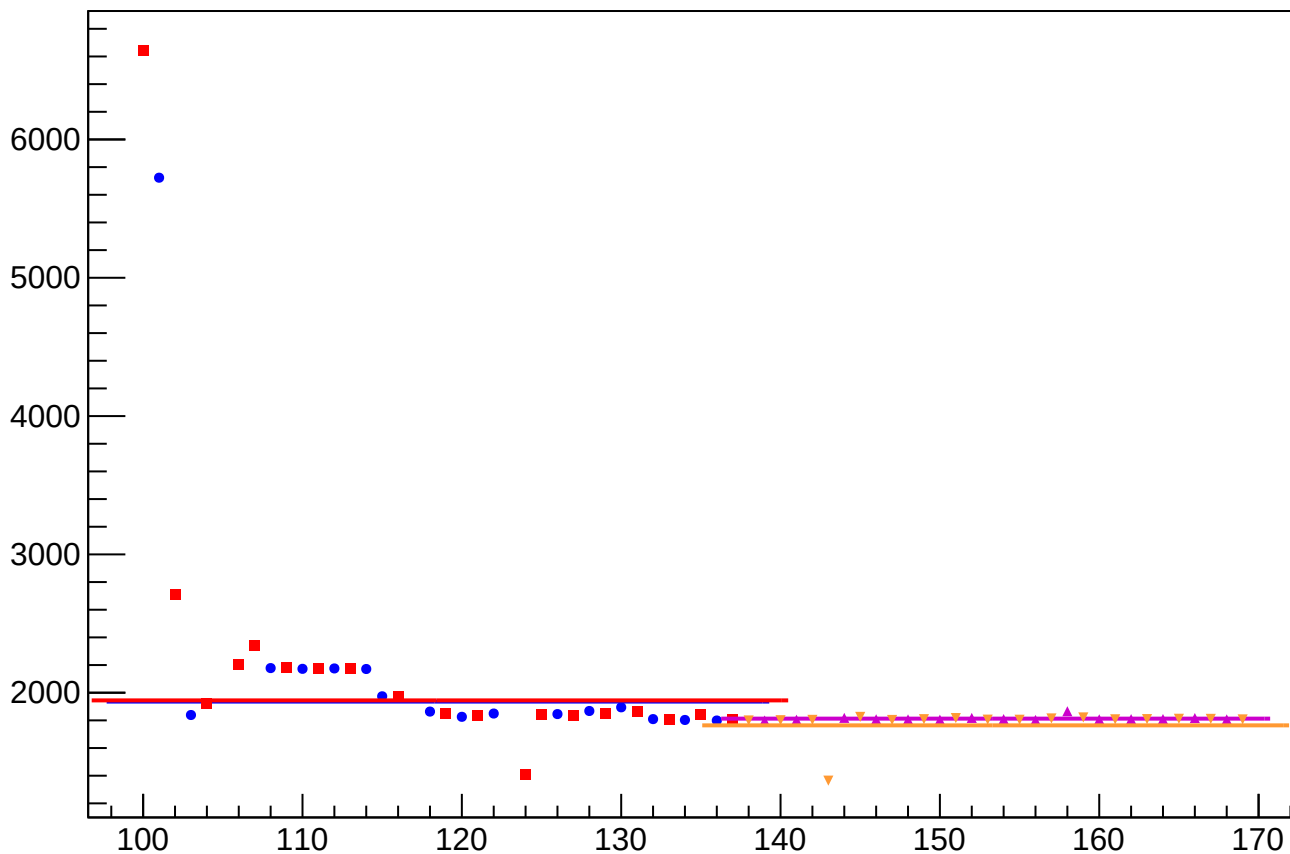
Right: -372.568+/-516.452 χ^2/NDF : 32.8/34

In: -472.803+/-421.646 χ^2/NDF :37.6/30

Out: -514.982+/-401.637 χ^2/NDF :30.3/35

All: -494.917+/-290.817 χ^2/NDF : 68.0/66

eigen_dit_asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 1935.974+/-0.520 χ^2/NDF : 639808.0/15

Left Out: 1763.990+/-0.341 χ^2/NDF :156496.8/16

Right Out: 1944.495+/-0.513 χ^2/NDF : 276223.5/18

Left In: 1812.546+/-0.364 χ^2/NDF :1746.9/14

Left: 1786.709+/-0.249 χ^2/NDF : 167723.2/31

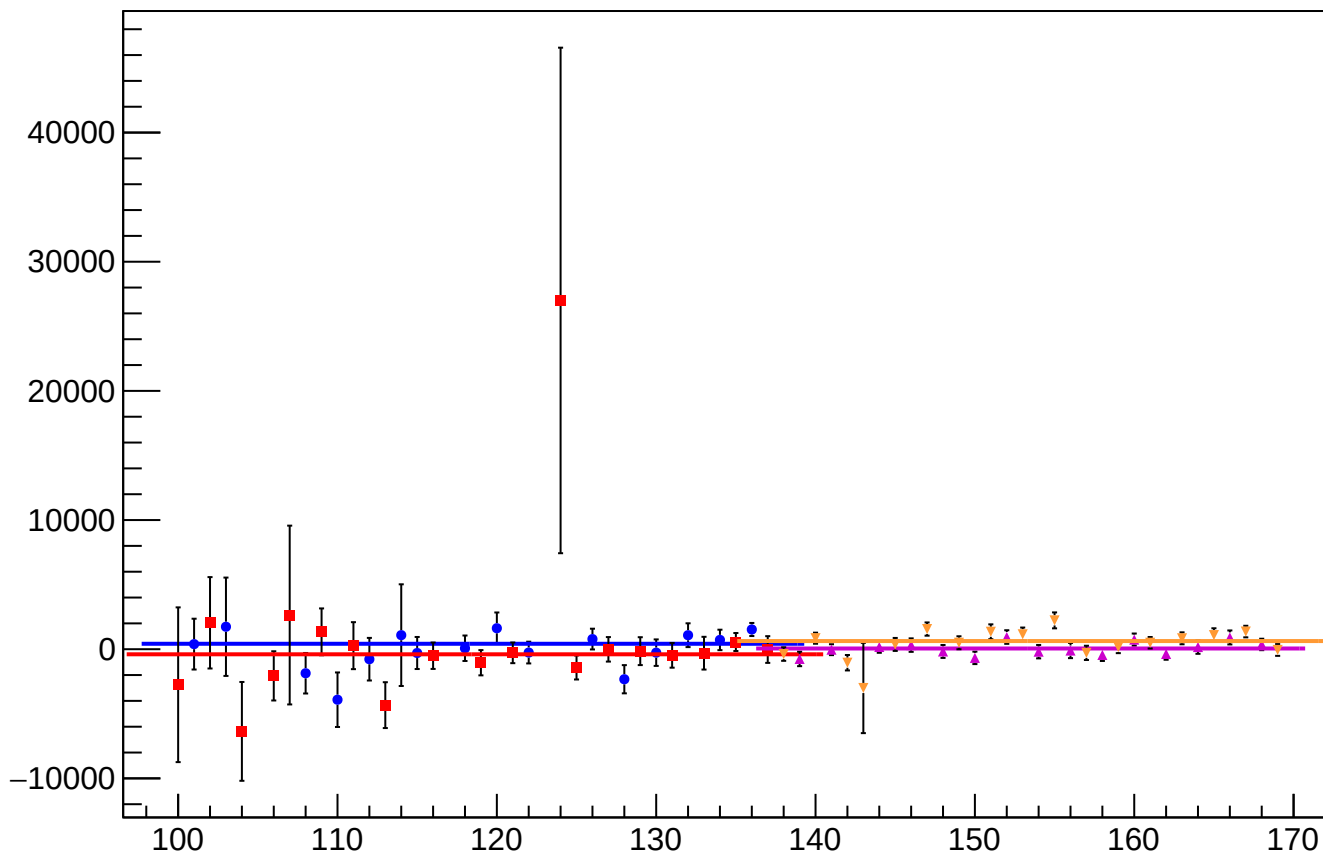
Right: 1940.298+/-0.365 χ^2/NDF : 916167.5/34

In: 1853.067+/-0.298 χ^2/NDF :679348.1/30

Out: 1819.389+/-0.284 χ^2/NDF :518650.2/35

All: 1835.410+/-0.206 χ^2/NDF : 1204687.8/66

asym_at1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 421.144+/-256.749 χ^2/NDF : 21.5/15

Left Out: 631.243+/-125.148 χ^2/NDF :35.6/16

Right Out: -393.591+/-279.562 χ^2/NDF : 15.9/18

Left In: 55.329+/-127.032 χ^2/NDF :15.2/14

Left: 347.587+/-89.152 χ^2/NDF : 61.3/31

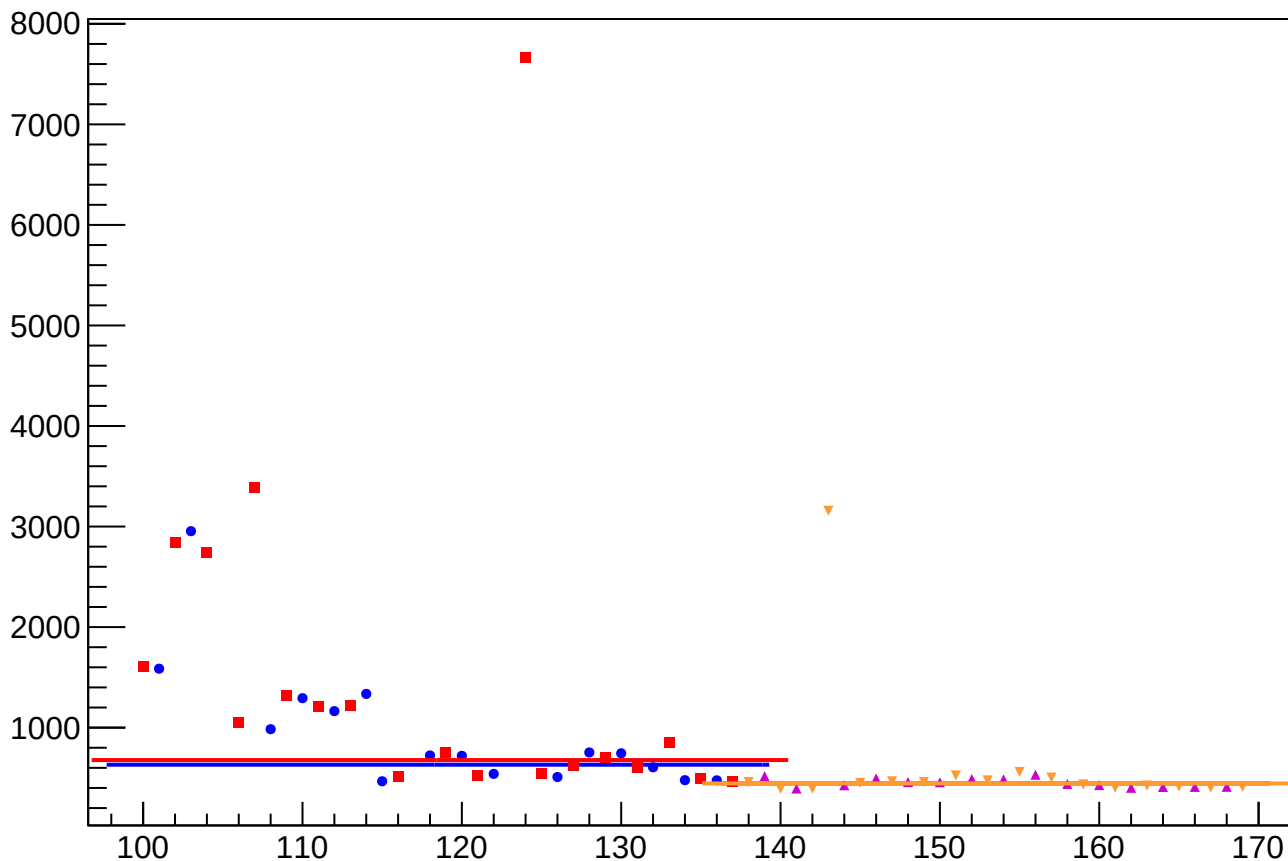
Right: 48.371+/-189.101 χ^2/NDF : 41.9/34

In: 127.268+/-113.858 χ^2/NDF :38.4/30

Out: 460.155+/-114.225 χ^2/NDF :62.6/35

All: 293.175+/-80.639 χ^2/NDF : 105.3/66

asym_at1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 631.139+/-0.182 χ^2/NDF : 2234479.1/15

Left Out: 444.981+/-0.088 χ^2/NDF :1449062.1/16

Right Out: 677.437+/-0.198 χ^2/NDF : 3081570.5/18

Left In: 444.745+/-0.090 χ^2/NDF :203380.2/14

Left: 444.865+/-0.063 χ^2/NDF : 1652445.8/31

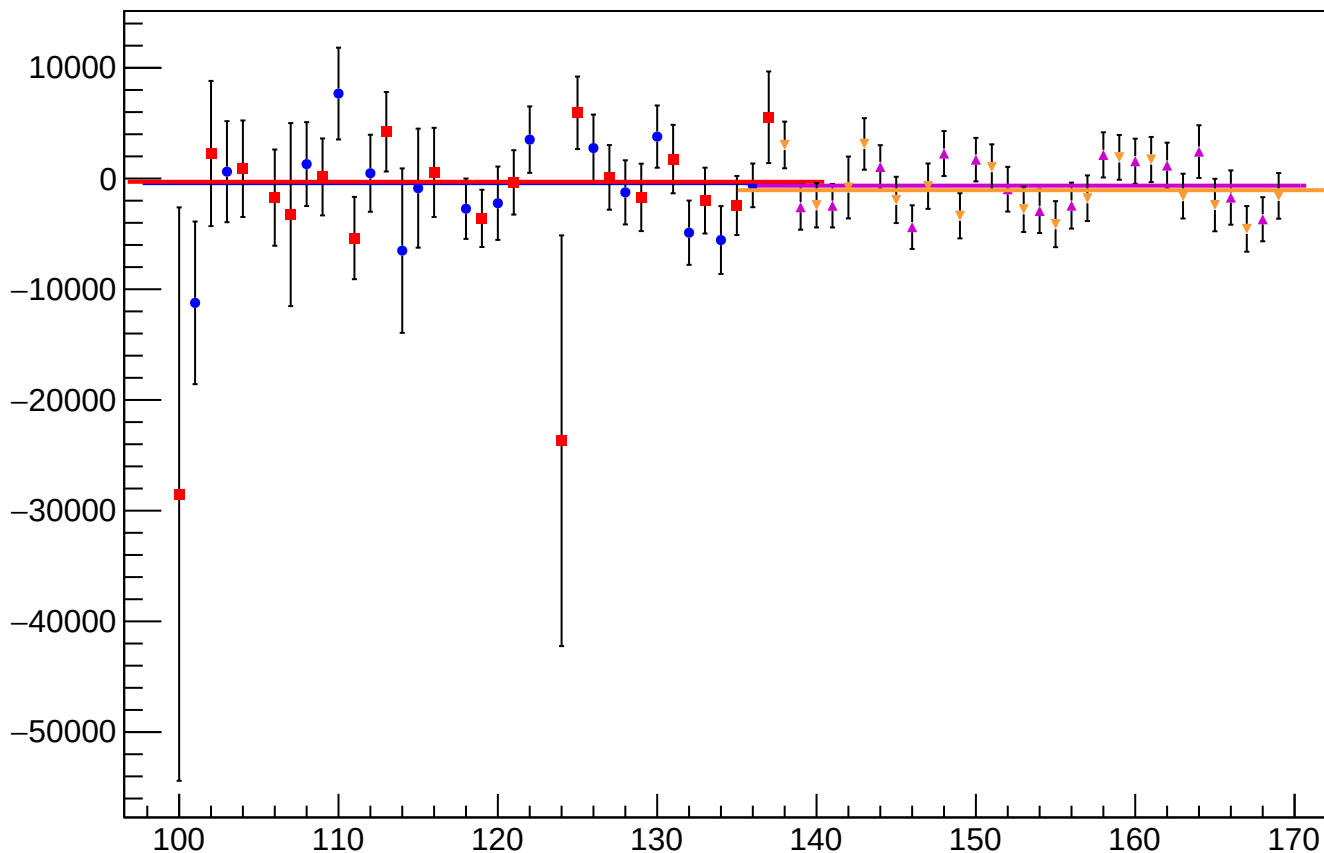
Right: 652.323+/-0.134 χ^2/NDF : 5345804.8/34

In: 481.400+/-0.081 χ^2/NDF :3284661.0/30

Out: 483.788+/-0.081 χ^2/NDF :5682570.5/35

All: 482.590+/-0.057 χ^2/NDF : 8967670.0/66

asym_at1_dd_mean vs Slug, Sign Corrected



Right In: -417.662 ± 815.370 χ^2/NDF : 18.3/15

Left Out: -1054.156 ± 512.108 χ^2/NDF : 20.3/16

Right Out: -294.527 ± 831.610 χ^2/NDF : 15.6/18

Left In: -643.811 ± 530.182 χ^2/NDF : 19.7/14

Left: -856.097 ± 368.339 χ^2/NDF : 40.3/31

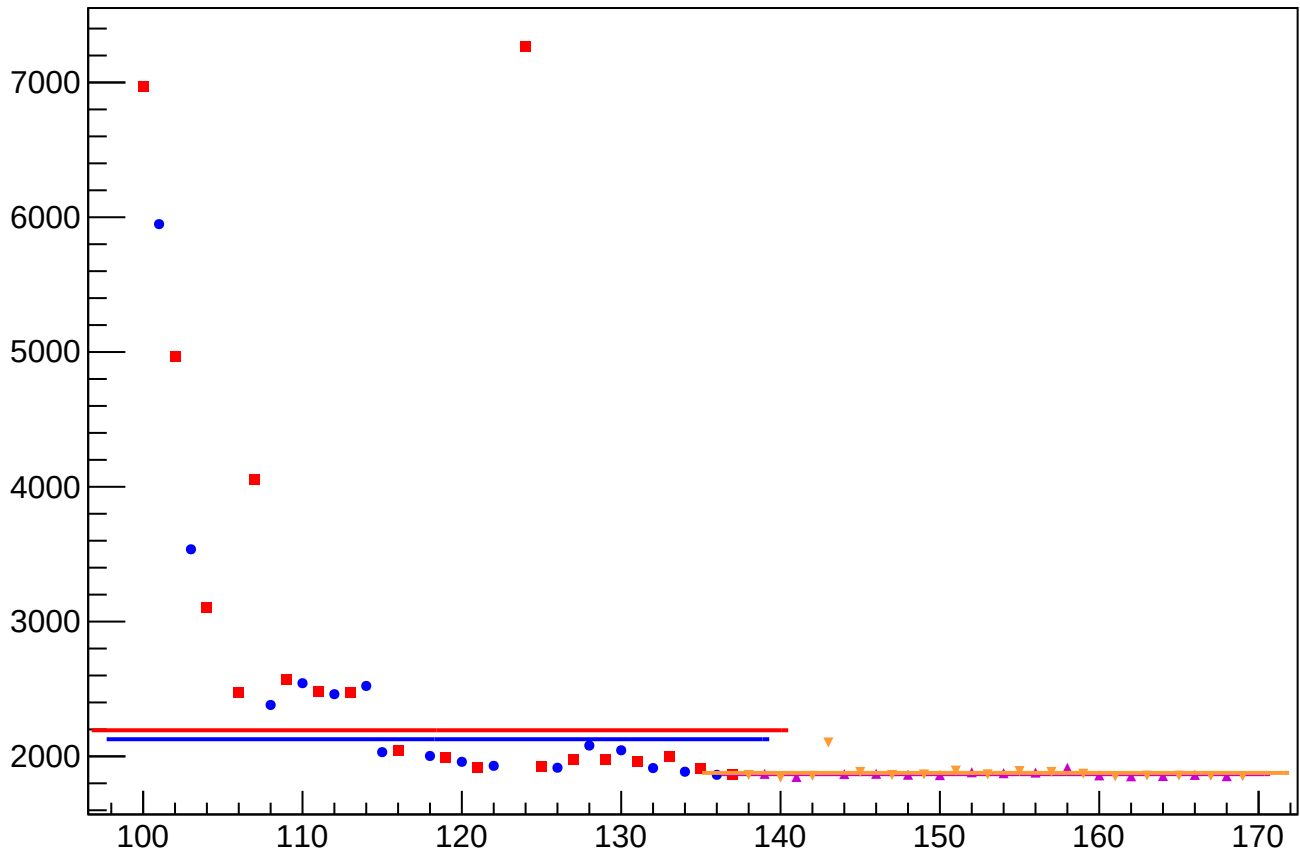
Right: -357.308 ± 582.210 χ^2/NDF : 34.0/34

In: -576.607 ± 444.480 χ^2/NDF : 38.1/30

Out: -845.296 ± 436.060 χ^2/NDF : 36.5/35

All: -713.521 ± 311.275 χ^2/NDF : 74.8/66

asym_at1_dd_rms vs Slug, Sign Corrected



Right In: 2127.041 $\pm$ 0.577 χ^2 /NDF: 875078.1/15

Left Out: 1877.228 $\pm$ 0.362 χ^2 /NDF: 21359.1/16

Right Out: 2193.560 $\pm$ 0.588 χ^2 /NDF: 942581.2/18

Left In: 1867.878 $\pm$ 0.375 χ^2 /NDF: 1865.3/14

Left: 1872.715 $\pm$ 0.260 χ^2 /NDF: 23546.2/31

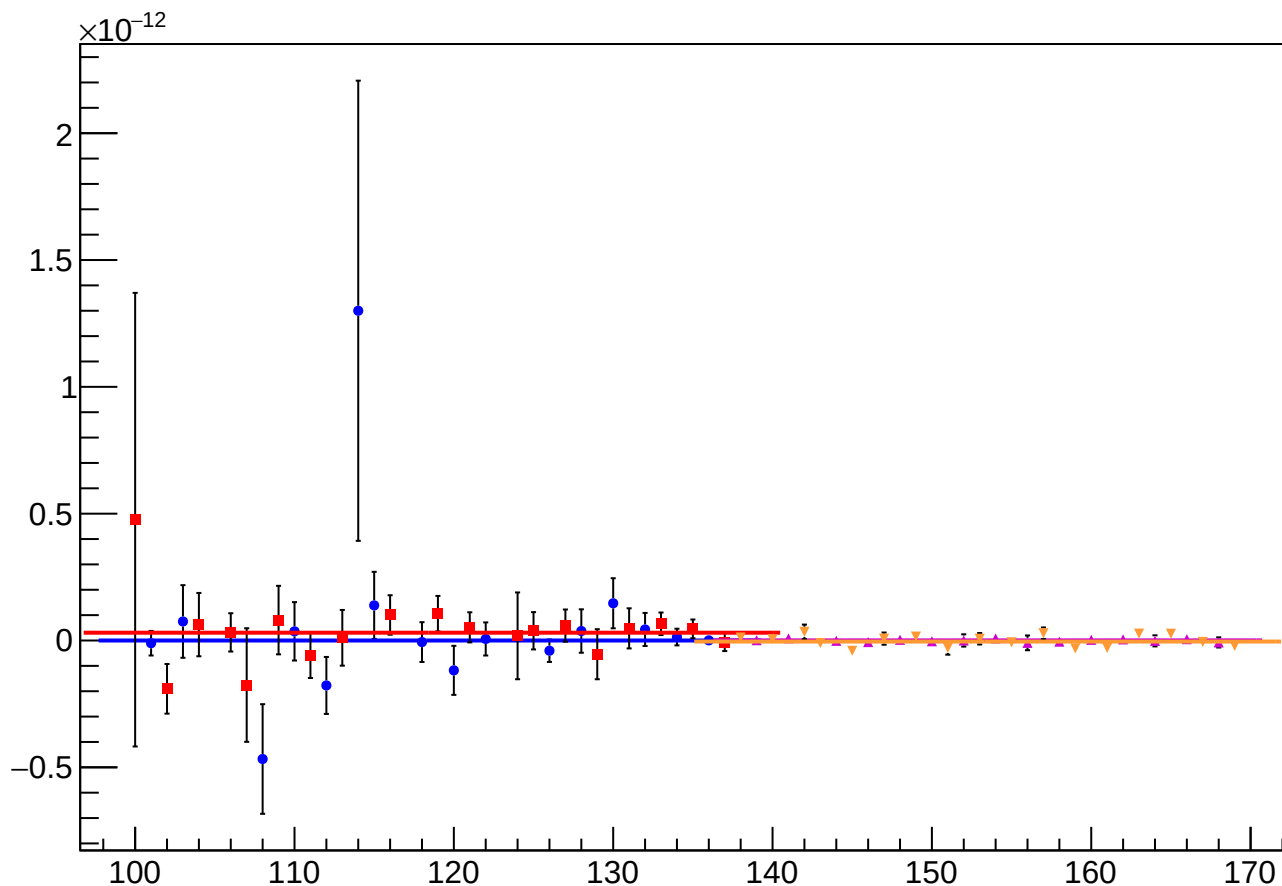
Right: 2159.645 $\pm$ 0.412 χ^2 /NDF: 1824183.5/34

In: 1944.892 $\pm$ 0.314 χ^2 /NDF: 1018954.9/30

Out: 1964.203 $\pm$ 0.308 χ^2 /NDF: 1173760.5/35

All: 1954.732 $\pm$ 0.220 χ^2 /NDF: 2194639.2/60

asym_at1_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 16.1/15

Left Out: -0.000+/-0.000 χ^2 /NDF:29.1/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 12.4/18

Left In: 0.000+/-0.000 χ^2 /NDF:1.8/14

Left: -0.000+/-0.000 χ^2 /NDF: 31.5/31

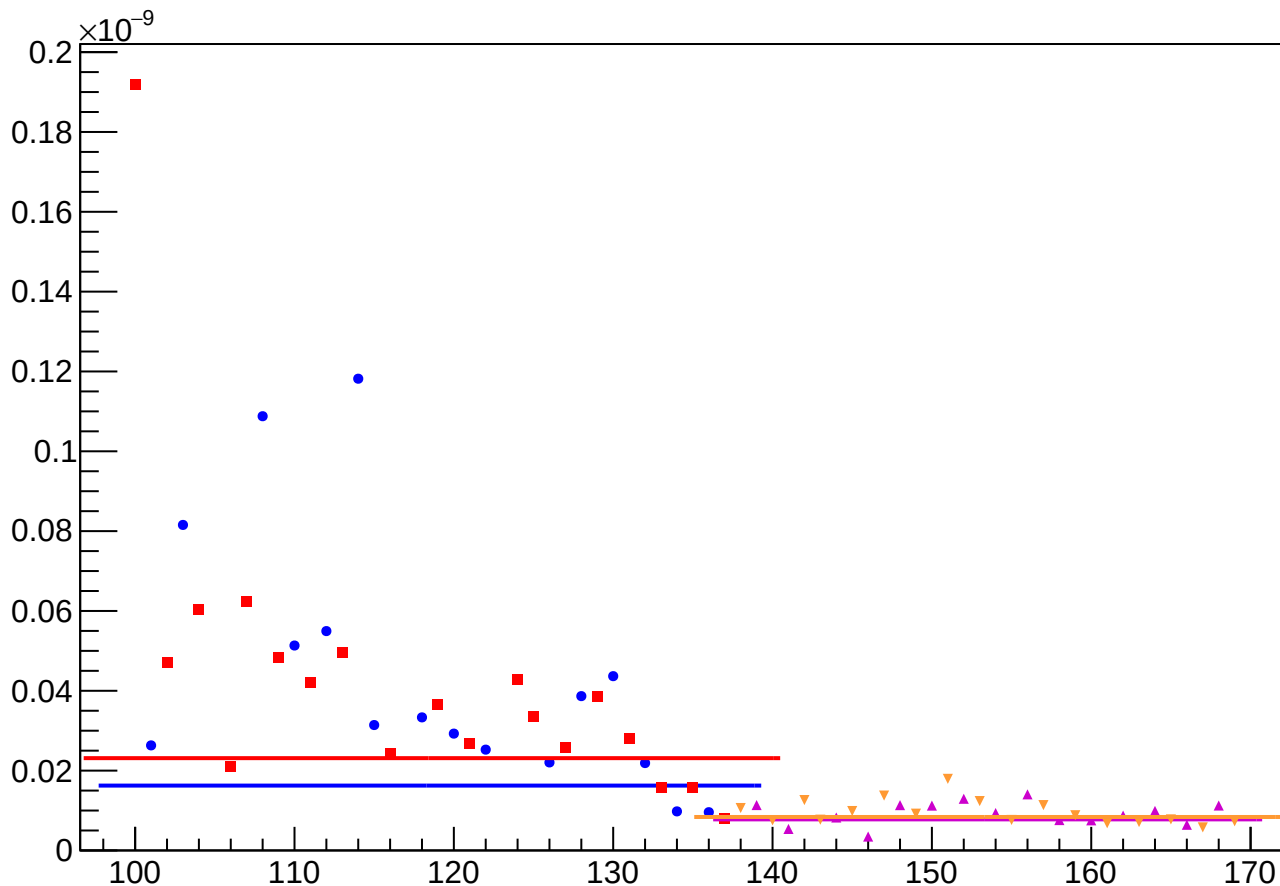
Right: 0.000+/-0.000 χ^2 /NDF: 30.9/34

In: 0.000+/-0.000 χ^2 /NDF:17.9/30

Out: -0.000+/-0.000 χ^2 /NDF:46.2/35

All: -0.000+/-0.000 χ^2 /NDF: 64.2/66

asym_at1_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2286703.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 752389.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1411720.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 979261.8/14

Left: 0.000+/-0.000 χ^2/NDF : 1753944.0/31

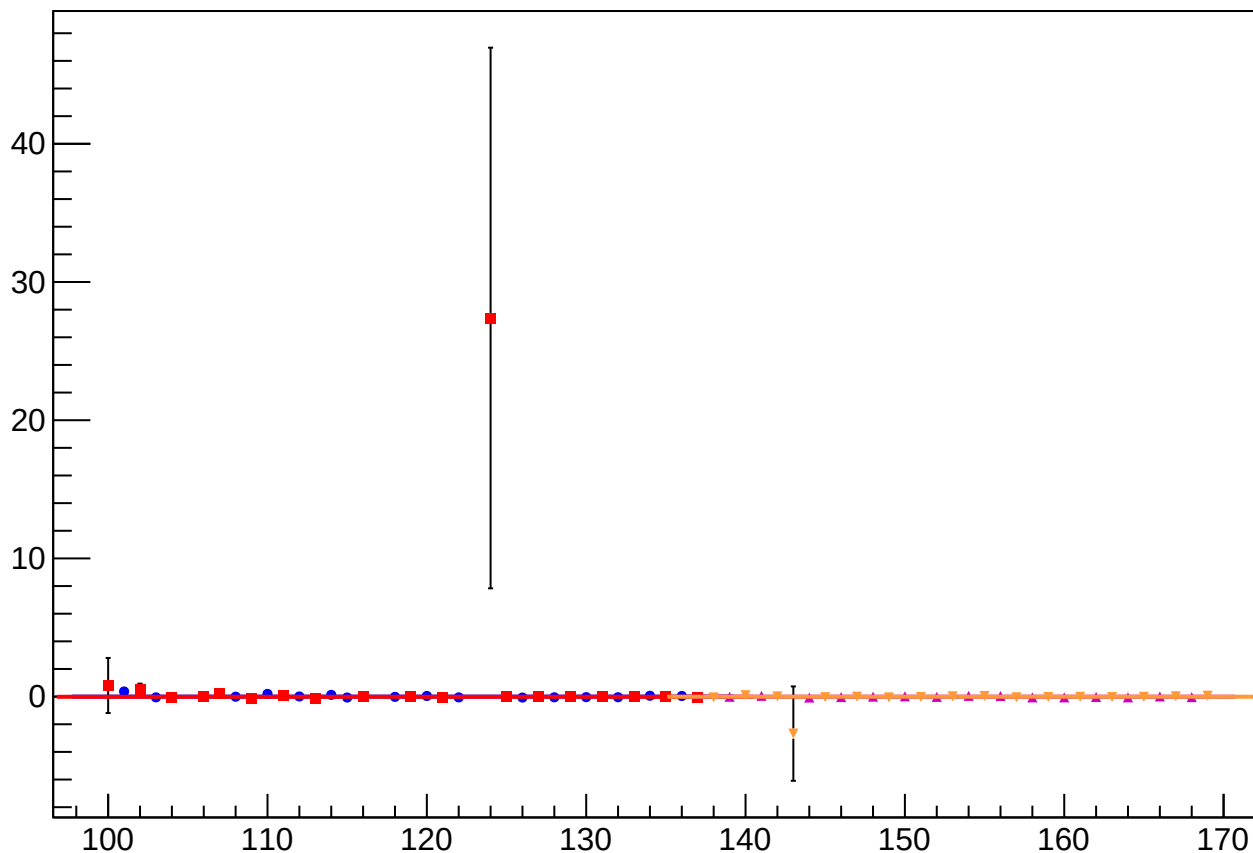
Right: 0.000+/-0.000 χ^2/NDF : 3942397.7/34

In: 0.000+/-0.000 χ^2/NDF : 4179577.2/30

Out: 0.000+/-0.000 χ^2/NDF : 3817521.0/35

All: 0.000+/-0.000 χ^2/NDF : 8021198.7/66

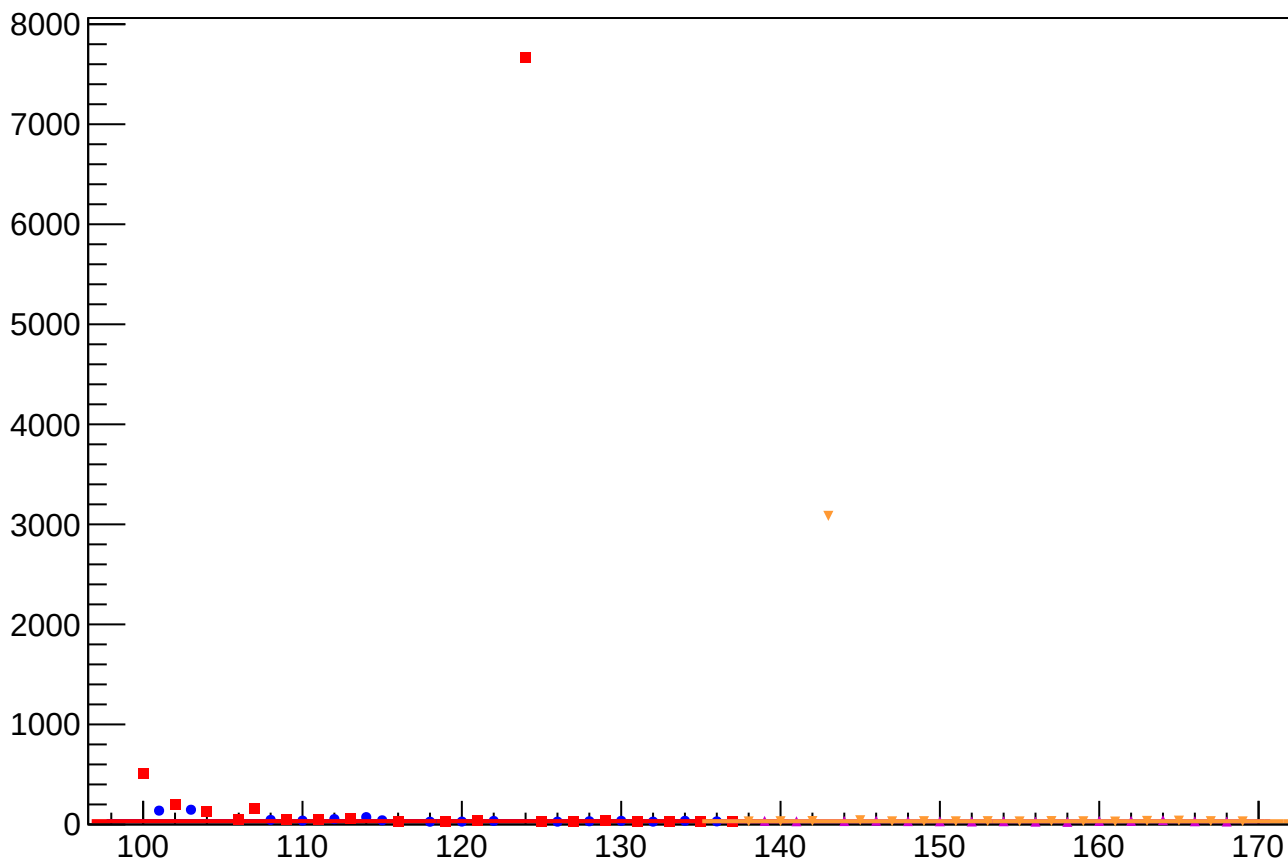
asym_at1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 ± 0.015 $\chi^2/\text{NDF}: 21.0/15$
 Left Out: -0.004 ± 0.010 $\chi^2/\text{NDF}: 21.1/16$
 Right Out: -0.012 ± 0.015 $\chi^2/\text{NDF}: 14.2/18$
 Left In: -0.007 ± 0.010 $\chi^2/\text{NDF}: 17.0/14$

Left: -0.006 ± 0.007 $\chi^2/\text{NDF}: 38.1/31$
 Right: -0.005 ± 0.010 $\chi^2/\text{NDF}: 35.6/34$
 In: -0.004 ± 0.008 $\chi^2/\text{NDF}: 38.3/30$
 Out: -0.007 ± 0.008 $\chi^2/\text{NDF}: 35.4/35$
 All: -0.006 ± 0.006 $\chi^2/\text{NDF}: 73.7/66$

asym_at1_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.055+/-0.010 χ^2/NDF : 1717266.1/15

Left Out: 32.417+/-0.007 χ^2/NDF : 1755476.9/16

Right Out: 33.084+/-0.011 χ^2/NDF : 2075124.6/18

Left In: 32.365+/-0.007 χ^2/NDF : 264861.5/14

Left: 32.392+/-0.005 χ^2/NDF : 2020365.5/31

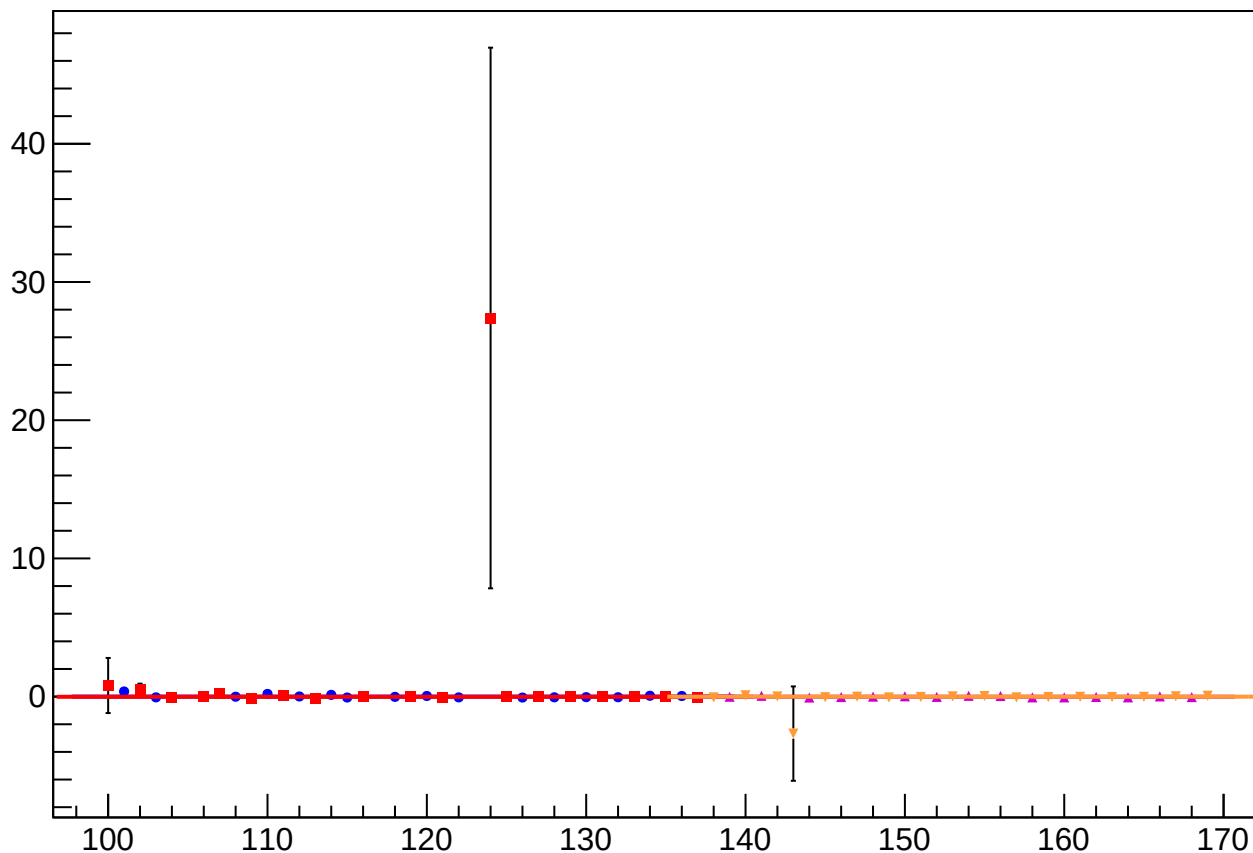
Right: 33.573+/-0.007 χ^2/NDF : 3796696.6/34

In: 32.900+/-0.006 χ^2/NDF : 2000070.6/30

Out: 32.621+/-0.006 χ^2/NDF : 3833393.9/35

All: 32.759+/-0.004 χ^2/NDF : 5834605.6/66

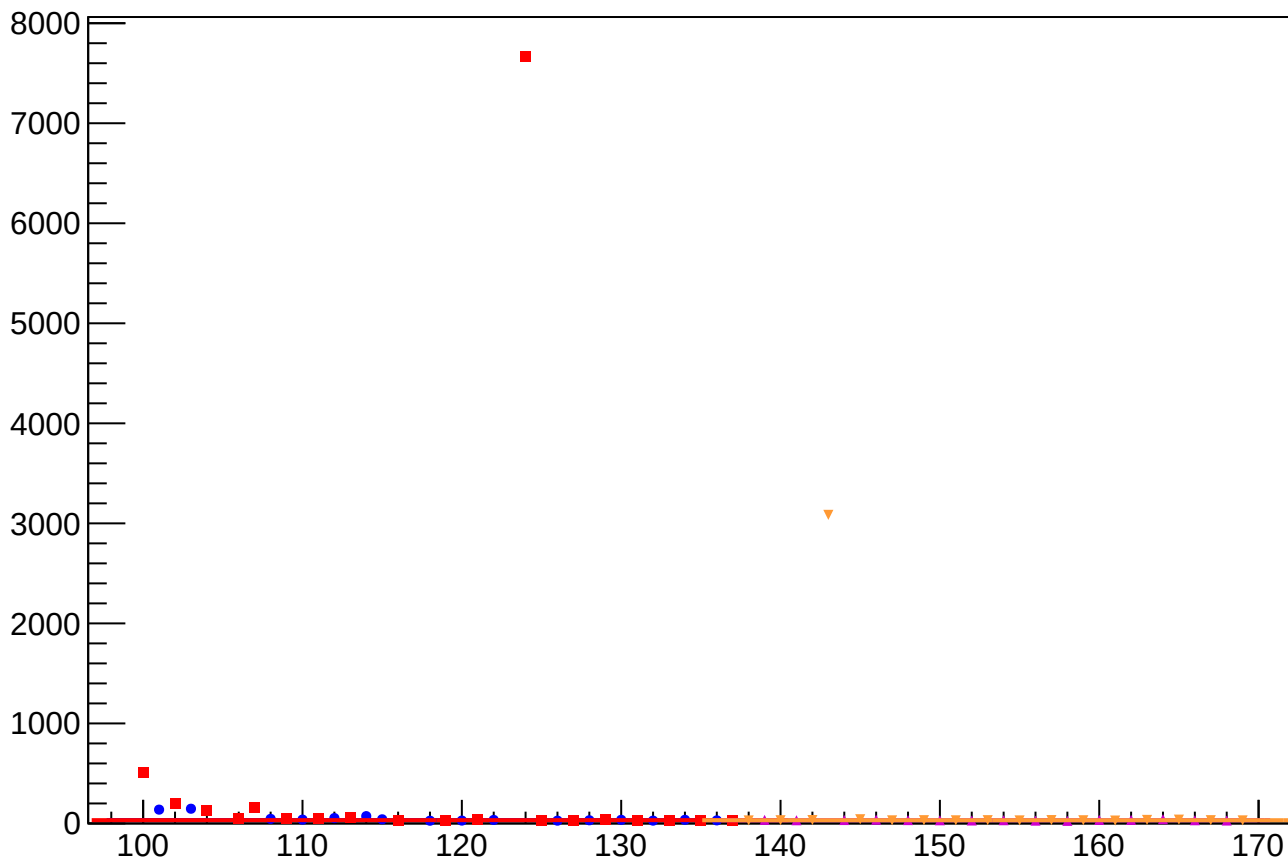
asym_at1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 ± 0.015 $\chi^2/\text{NDF}: 21.0/15$
 Left Out: -0.004 ± 0.010 $\chi^2/\text{NDF}: 21.1/16$
 Right Out: -0.012 ± 0.015 $\chi^2/\text{NDF}: 14.2/18$
 Left In: -0.007 ± 0.010 $\chi^2/\text{NDF}: 17.0/14$

Left: -0.006 ± 0.007 $\chi^2/\text{NDF}: 38.1/31$
 Right: -0.005 ± 0.010 $\chi^2/\text{NDF}: 35.6/34$
 In: -0.004 ± 0.008 $\chi^2/\text{NDF}: 38.3/30$
 Out: -0.007 ± 0.008 $\chi^2/\text{NDF}: 35.4/35$
 All: -0.006 ± 0.006 $\chi^2/\text{NDF}: 73.7/66$

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.055+/-0.010 χ^2 /NDF: 1717266.1/15

Left Out: 32.417+/-0.007 χ^2 /NDF:1755476.9/16

Right Out: 33.084+/-0.011 χ^2 /NDF: 2075124.6/18

Left In: 32.365+/-0.007 χ^2 /NDF:264861.5/14

Left: 32.392+/-0.005 χ^2 /NDF: 2020365.5/31

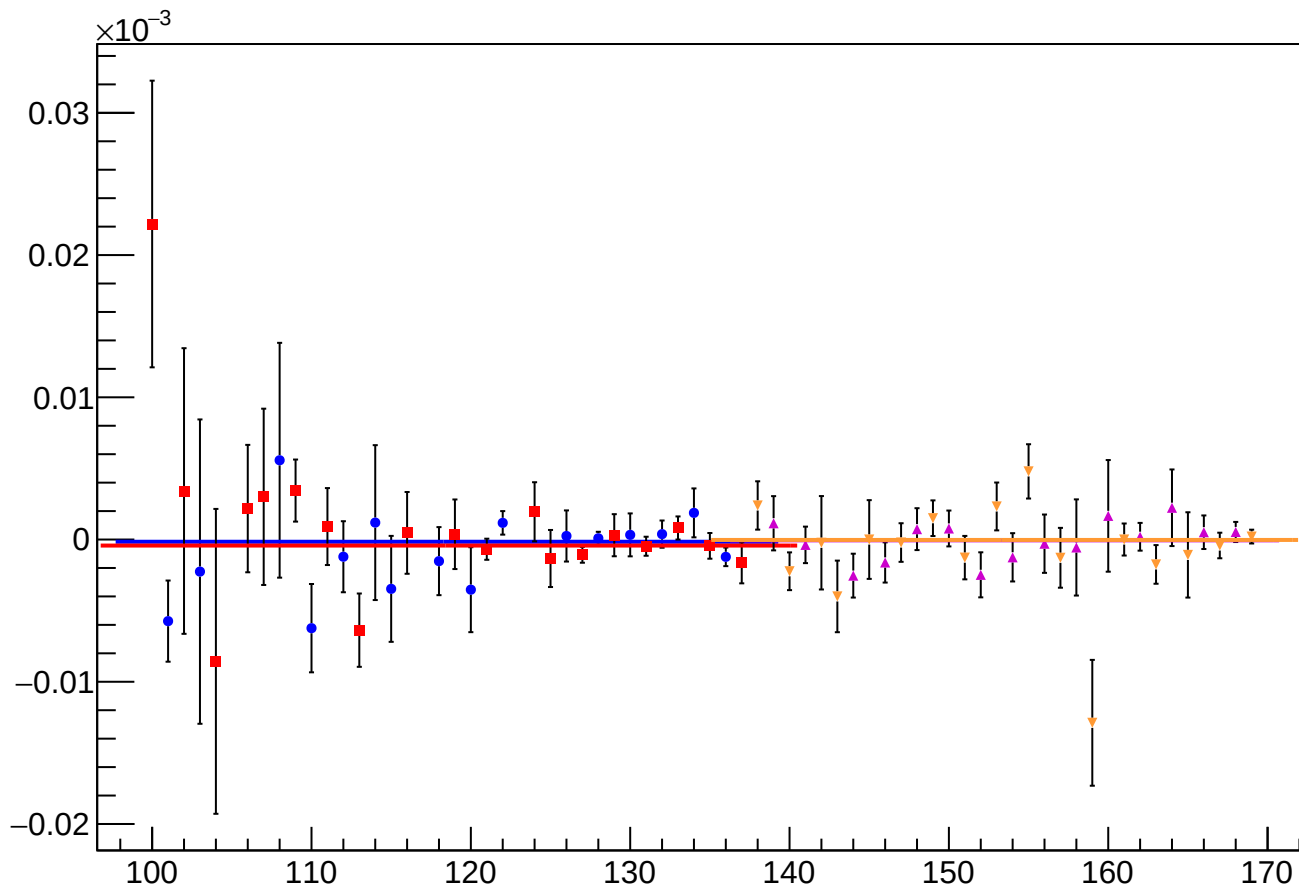
Right: 33.573+/-0.007 χ^2 /NDF: 3796696.6/34

In: 32.900+/-0.006 χ^2 /NDF:2000070.6/30

Out: 32.621+/-0.006 χ^2 /NDF:3833393.9/35

All: 32.759+/-0.004 χ^2 /NDF: 5834605.6/66

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 18.2/15

Left Out: -0.000+/-0.000 χ^2/NDF : 28.7/16

Right Out: -0.000+/-0.000 χ^2/NDF : 21.6/18

Left In: -0.000+/-0.000 χ^2/NDF : 9.8/14

Left: -0.000+/-0.000 χ^2/NDF : 38.5/31

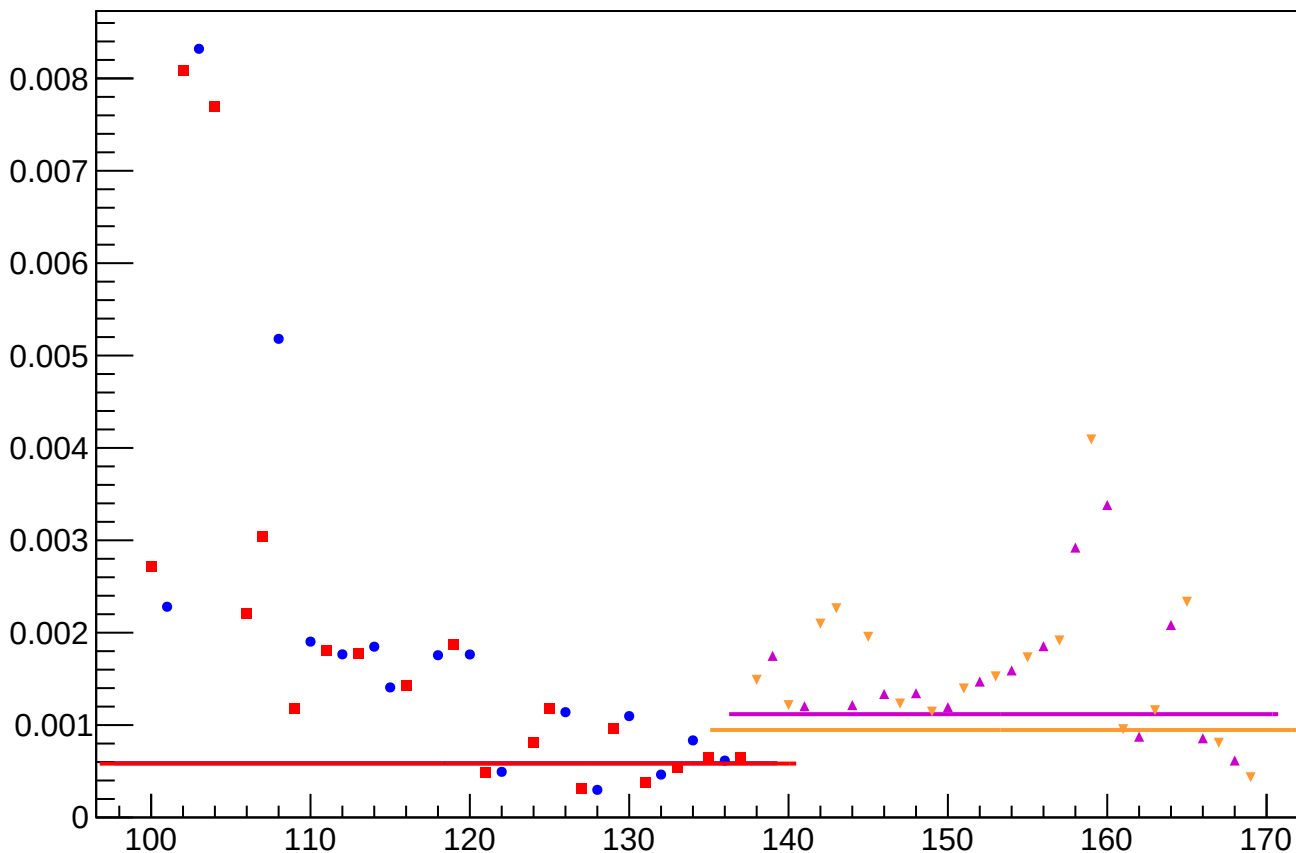
Right: -0.000+/-0.000 χ^2/NDF : 40.2/34

In: -0.000+/-0.000 χ^2/NDF : 28.0/30

Out: -0.000+/-0.000 χ^2/NDF : 51.2/35

All: -0.000+/-0.000 χ^2/NDF : 79.4/66

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 5485949.6/15

Left Out: 0.001+/-0.000 χ^2/NDF : 6418767.3/16

Right Out: 0.001+/-0.000 χ^2/NDF : 5431787.1/18

Left In: 0.001+/-0.000 χ^2/NDF : 3572446.4/14

Left: 0.001+/-0.000 χ^2/NDF : 10260964.4/31

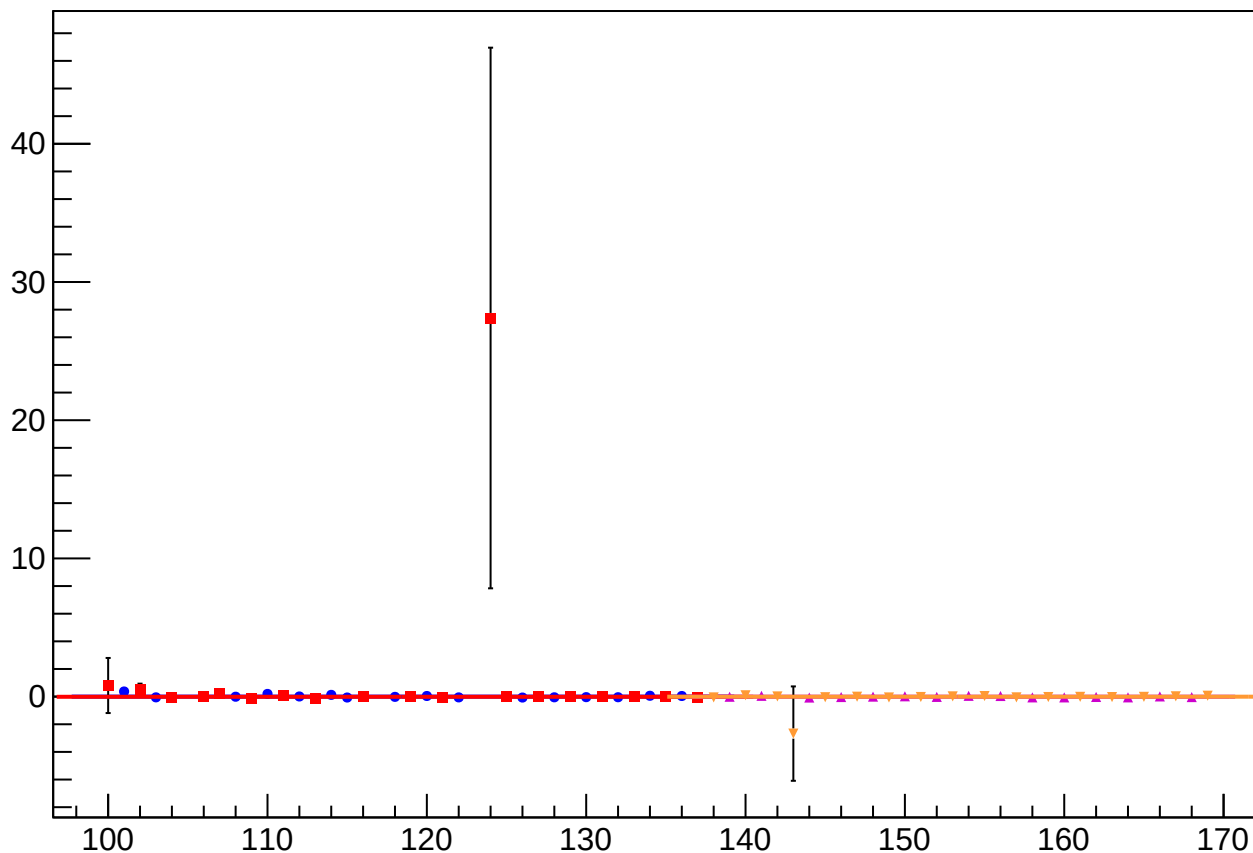
Right: 0.001+/-0.000 χ^2/NDF : 10917885.2/34

In: 0.001+/-0.000 χ^2/NDF : 11720798.4/30

Out: 0.001+/-0.000 χ^2/NDF : 13363260.9/35

All: 0.001+/-0.000 χ^2/NDF : 25137866.9/66

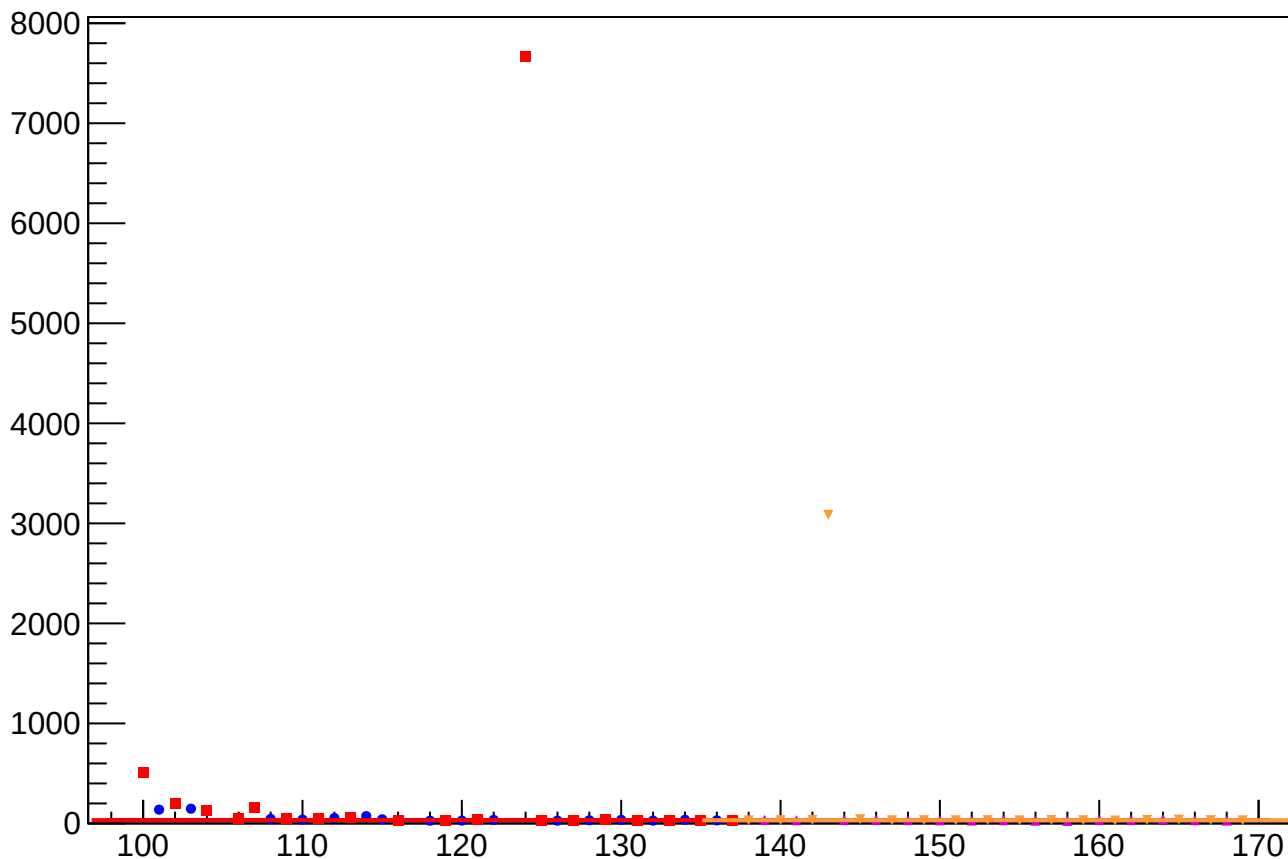
asym_at1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 ± 0.015 $\chi^2/\text{NDF}: 21.0/15$
 Left Out: -0.004 ± 0.010 $\chi^2/\text{NDF}: 21.1/16$
 Right Out: -0.012 ± 0.015 $\chi^2/\text{NDF}: 14.2/18$
 Left In: -0.007 ± 0.010 $\chi^2/\text{NDF}: 17.0/14$

Left: -0.006 ± 0.007 $\chi^2/\text{NDF}: 38.1/31$
 Right: -0.005 ± 0.010 $\chi^2/\text{NDF}: 35.6/34$
 In: -0.004 ± 0.008 $\chi^2/\text{NDF}: 38.3/30$
 Out: -0.007 ± 0.008 $\chi^2/\text{NDF}: 35.4/35$
 All: -0.006 ± 0.006 $\chi^2/\text{NDF}: 73.7/66$

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.055+/-0.010 χ^2/NDF : 1717254.5/15

Left Out: 32.417+/-0.007 χ^2/NDF : 1755471.8/16

Right Out: 33.083+/-0.011 χ^2/NDF : 2075105.8/18

Left In: 32.366+/-0.007 χ^2/NDF : 264784.4/14

Left: 32.392+/-0.005 χ^2/NDF : 2020283.1/31

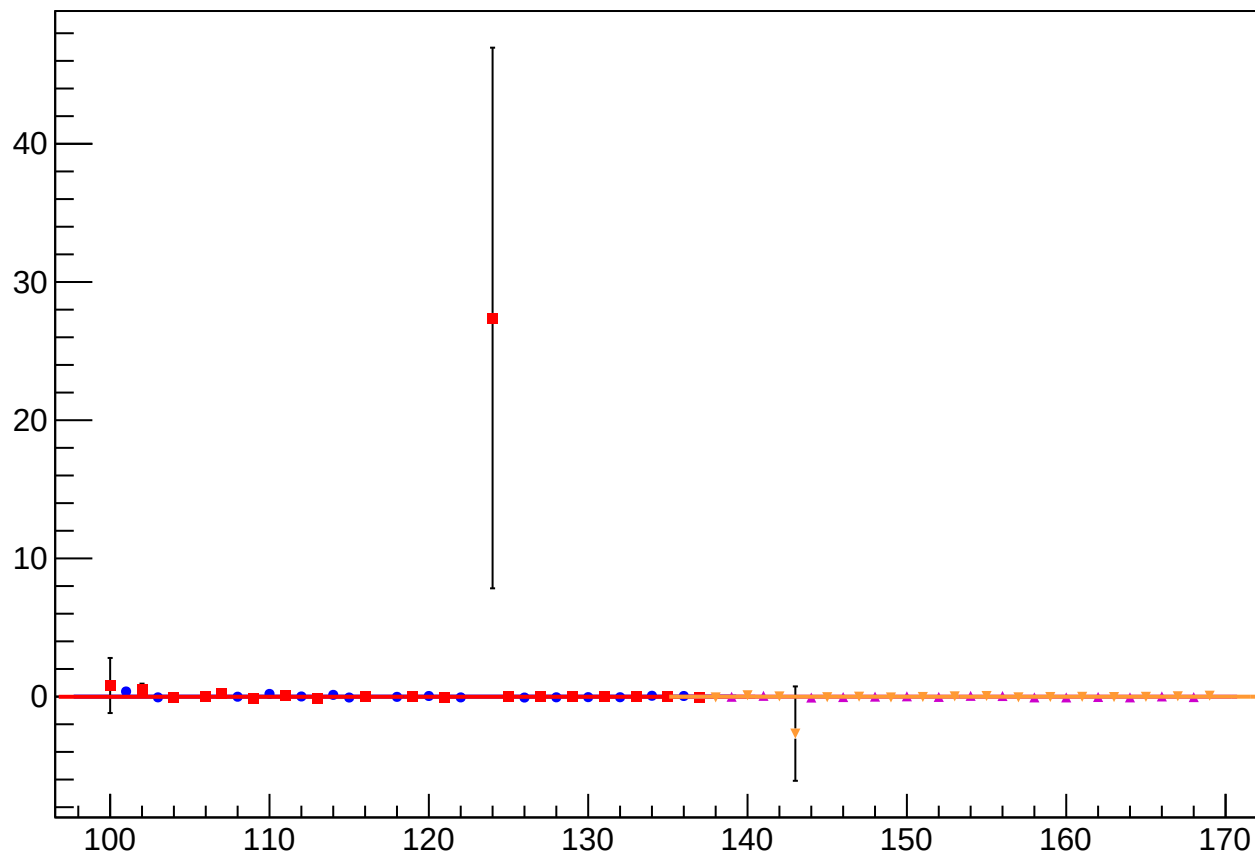
Right: 33.573+/-0.007 χ^2/NDF : 3796667.3/34

In: 32.900+/-0.006 χ^2/NDF : 1999976.4/30

Out: 32.621+/-0.006 χ^2/NDF : 3833369.0/35

All: 32.759+/-0.004 χ^2/NDF : 5834488.2/66

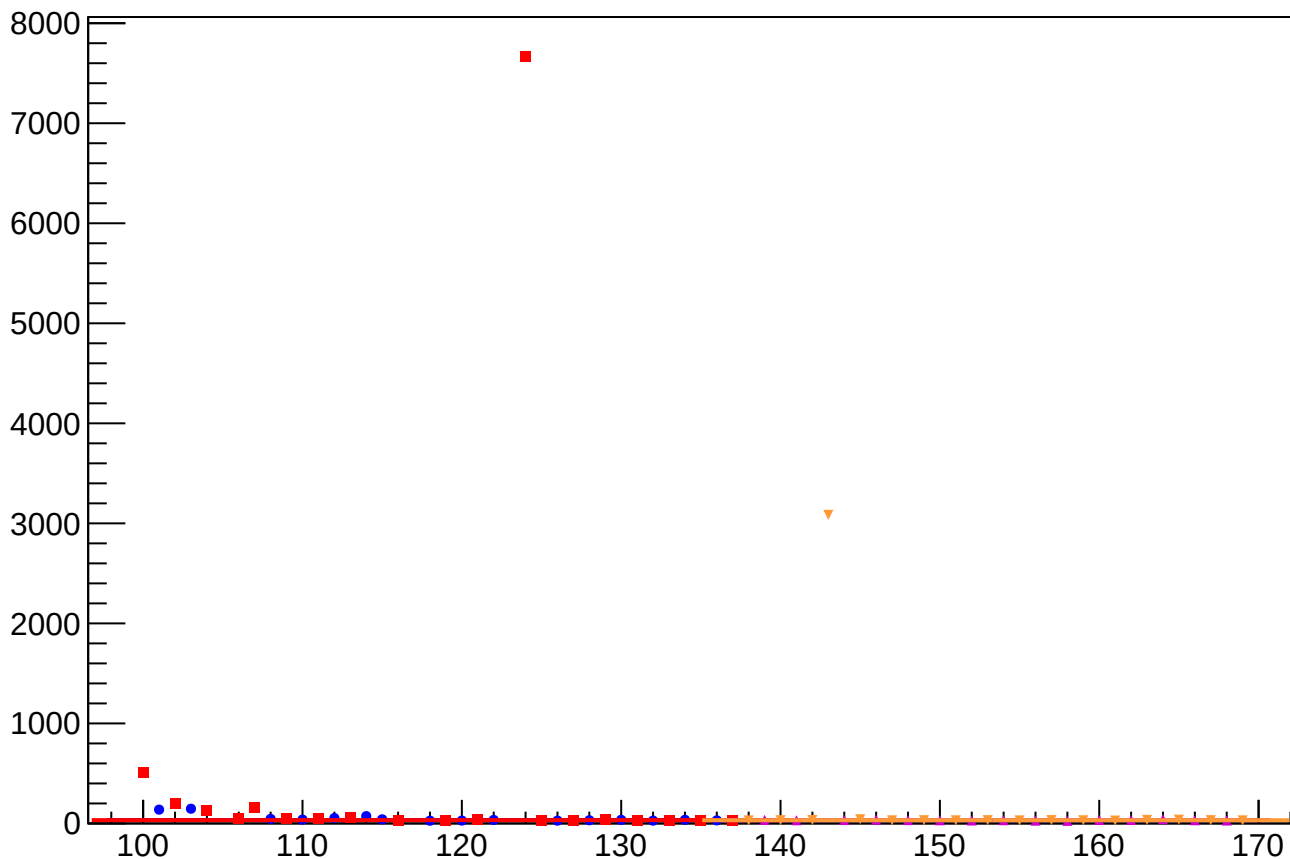
asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.015 χ^2 /NDF: 21.0/15
 Left Out: -0.004 $\pm$ 0.010 χ^2 /NDF:21.1/16
 Right Out: -0.012 $\pm$ 0.015 χ^2 /NDF: 14.2/18
 Left In: -0.007 $\pm$ 0.010 χ^2 /NDF:17.0/14

Left: -0.006 $\pm$ 0.007 χ^2 /NDF: 38.1/31
 Right: -0.005 $\pm$ 0.010 χ^2 /NDF: 35.6/34
 In: -0.004 $\pm$ 0.008 χ^2 /NDF:38.3/30
 Out: -0.007 $\pm$ 0.008 χ^2 /NDF:35.4/35
 All: -0.006 $\pm$ 0.006 χ^2 /NDF: 73.7/66

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.055+/-0.010 χ^2/NDF : 1717254.5/15

Left Out: 32.417+/-0.007 χ^2/NDF : 1755471.8/16

Right Out: 33.083+/-0.011 χ^2/NDF : 2075105.8/18

Left In: 32.366+/-0.007 χ^2/NDF : 264784.4/14

Left: 32.392+/-0.005 χ^2/NDF : 2020283.1/31

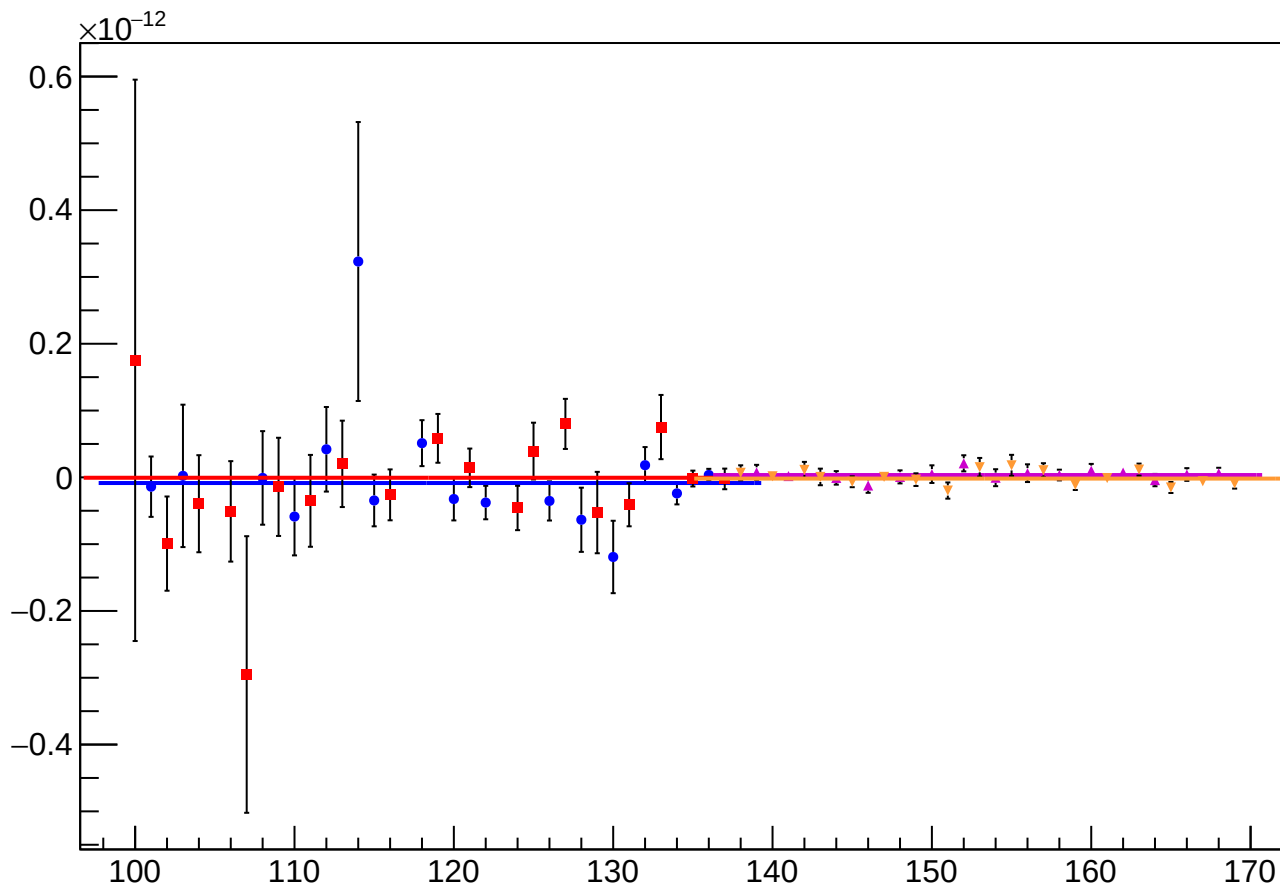
Right: 33.573+/-0.007 χ^2/NDF : 3796667.3/34

In: 32.900+/-0.006 χ^2/NDF : 1999976.4/30

Out: 32.621+/-0.006 χ^2/NDF : 3833369.0/35

All: 32.759+/-0.004 χ^2/NDF : 5834488.2/66

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 19.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 16.7/16

Right Out: -0.000+/-0.000 χ^2/NDF : 20.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 6.2/14

Left: 0.000+/-0.000 χ^2/NDF : 25.7/31

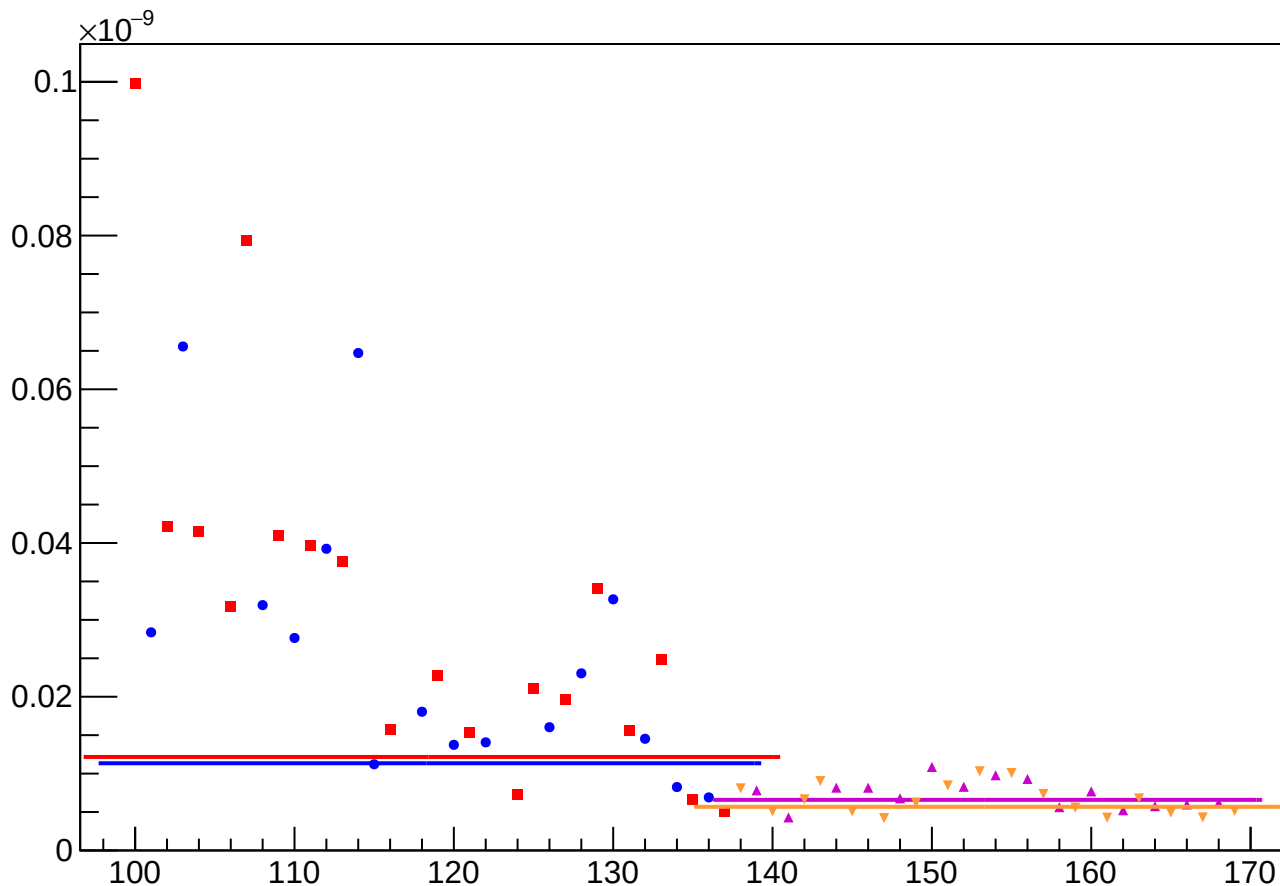
Right: -0.000+/-0.000 χ^2/NDF : 40.7/34

In: 0.000+/-0.000 χ^2/NDF : 28.5/30

Out: -0.000+/-0.000 χ^2/NDF : 37.5/35

All: -0.000+/-0.000 χ^2/NDF : 67.6/66

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2813598.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1146807.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3757412.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 1002268.4/14

Left: 0.000+/-0.000 χ^2/NDF : 2307251.9/31

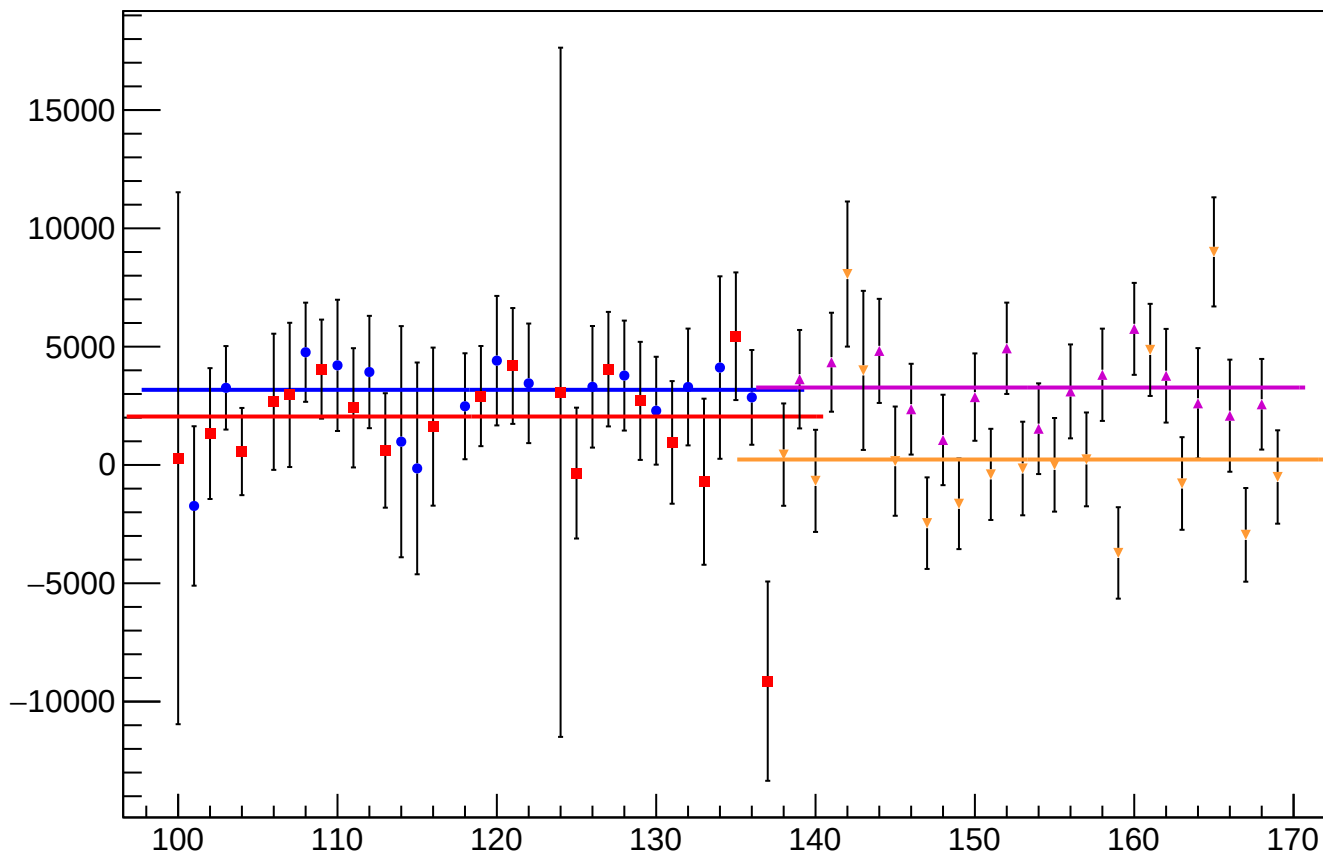
Right: 0.000+/-0.000 χ^2/NDF : 6585389.8/34

In: 0.000+/-0.000 χ^2/NDF : 4782395.6/30

Out: 0.000+/-0.000 χ^2/NDF : 6379102.7/35

All: 0.000+/-0.000 χ^2/NDF : 11378226.9/66

reg_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3175.599 $\pm$ 627.992 χ^2 /NDF: 4.3/15

Left Out: 230.659 $\pm$ 507.790 χ^2 /NDF:38.3/16

Right Out: 2047.403 $\pm$ 621.498 χ^2 /NDF: 14.0/18

Left In: 3272.594 $\pm$ 518.690 χ^2 /NDF:6.2/14

Left: 1719.327 $\pm$ 362.854 χ^2 /NDF: 62.1/31

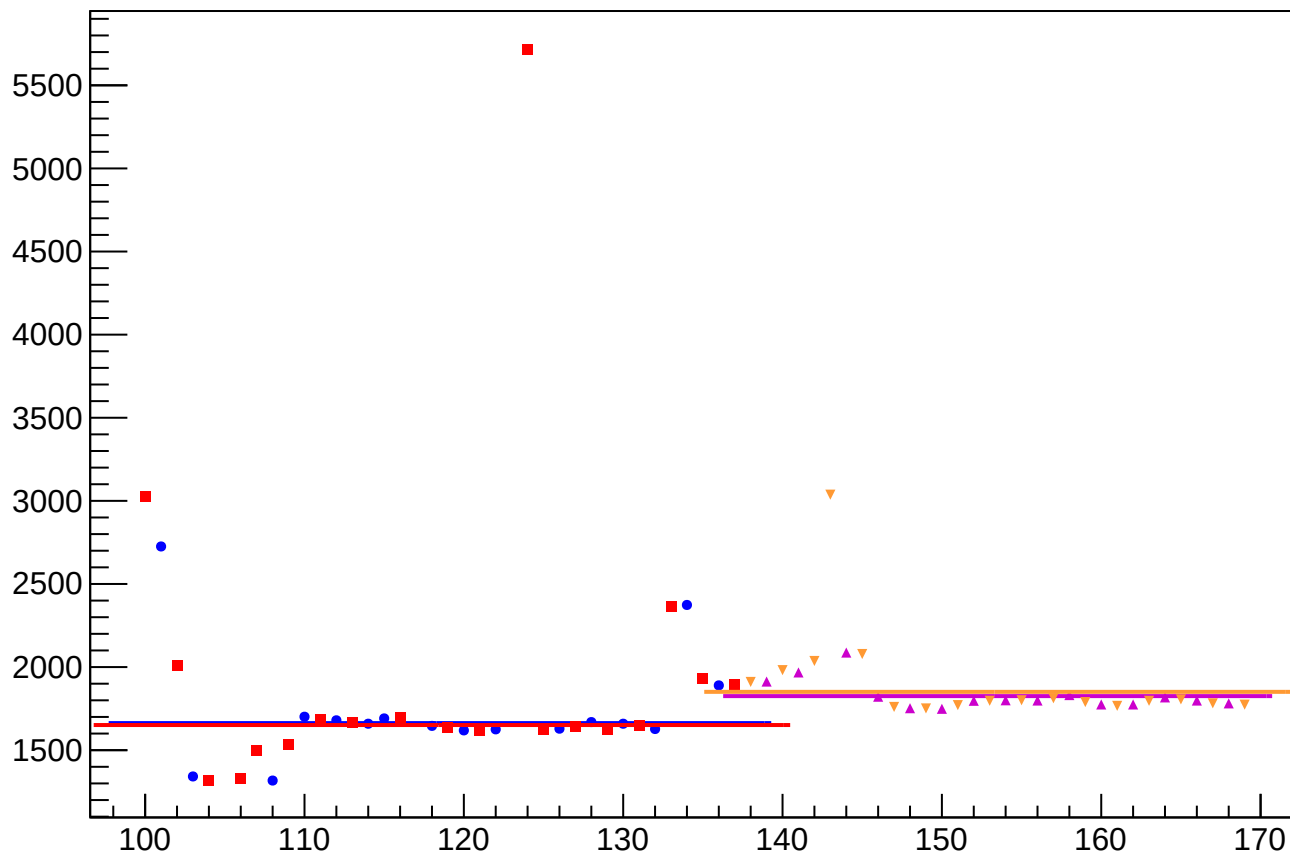
Right: 2605.638 $\pm$ 441.744 χ^2 /NDF: 20.0/34

In: 3233.259 $\pm$ 399.917 χ^2 /NDF:10.5/30

Out: 957.939 $\pm$ 393.227 χ^2 /NDF:57.5/35

All: 2076.409 $\pm$ 280.389 χ^2 /NDF: 84.5/66

reg_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1662.901+/-0.444 χ^2/NDF : 415630.7/15

Left Out: 1850.985+/-0.359 χ^2/NDF : 315016.9/16

Right Out: 1651.322+/-0.439 χ^2/NDF : 431965.1/18

Left In: 1825.322+/-0.367 χ^2/NDF : 52576.0/14

Left: 1838.426+/-0.257 χ^2/NDF : 370093.0/31

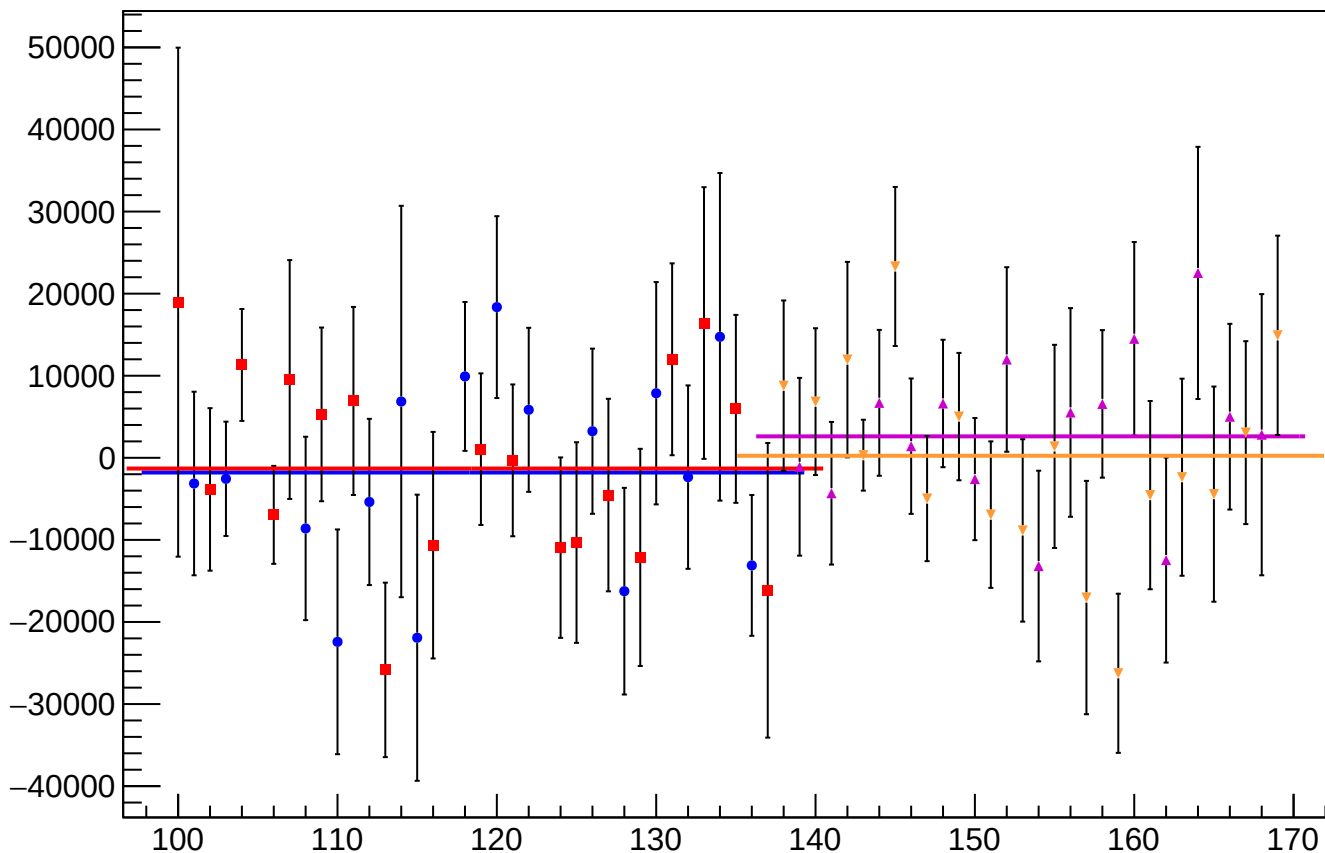
Right: 1657.052+/-0.312 χ^2/NDF : 847939.4/34

In: 1759.454+/-0.283 χ^2/NDF : 547735.8/30

Out: 1771.056+/-0.278 χ^2/NDF : 870767.1/35

All: 1765.353+/-0.198 χ^2/NDF : 1419358.7/66

asym_at2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1791.030 $\pm$ 2743.617 χ^2 /NDF: 14.3/15

Left Out: 247.875 $\pm$ 2209.305 χ^2 /NDF:20.8/16

Right Out: -1306.311 $\pm$ 2430.063 χ^2 /NDF: 17.7/18

Left In: 2613.280 $\pm$ 2610.369 χ^2 /NDF:8.7/14

Left: 1235.097 $\pm$ 1686.384 χ^2 /NDF: 30.1/31

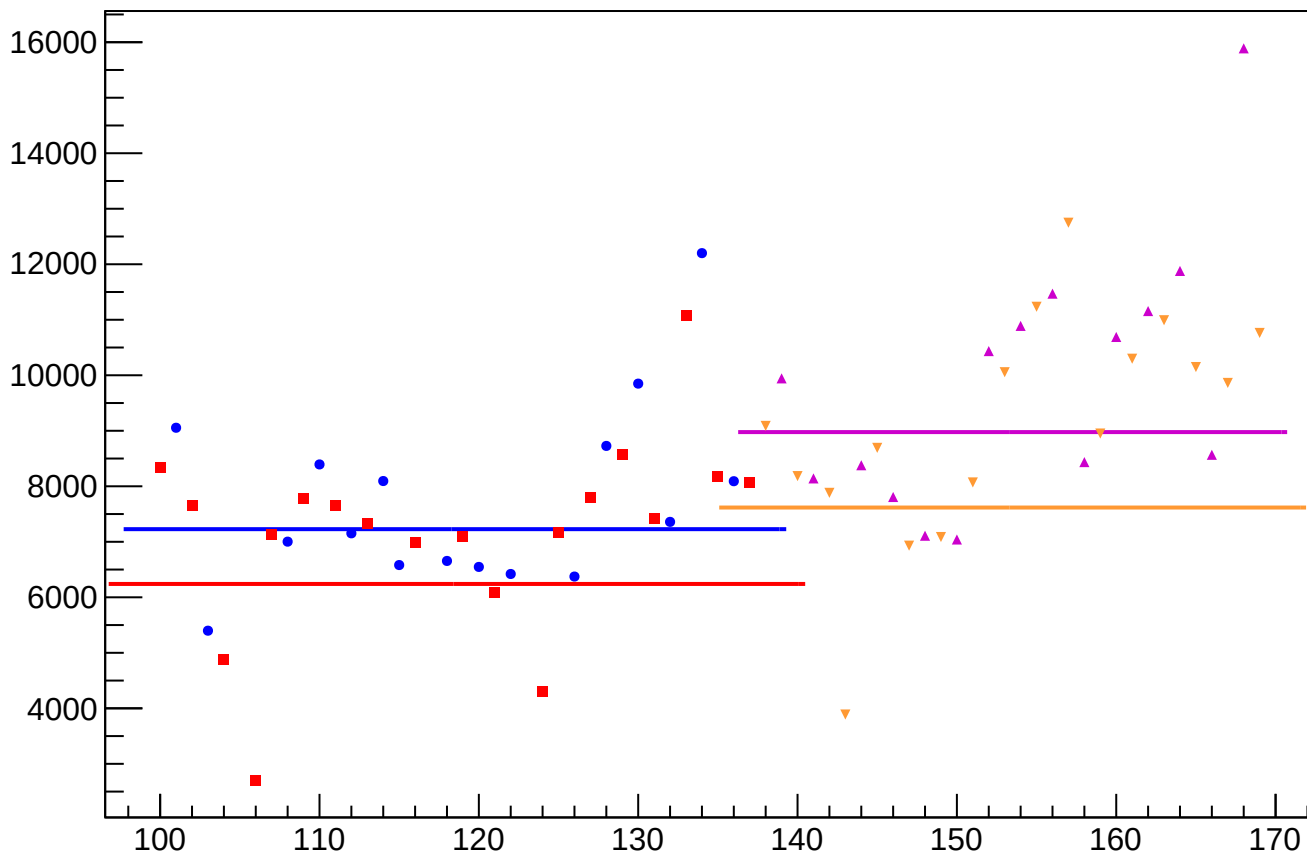
Right: -1519.402 $\pm$ 1819.116 χ^2 /NDF: 32.1/34

In: 520.671 $\pm$ 1891.162 χ^2 /NDF:24.4/30

Out: -455.431 $\pm$ 1634.701 χ^2 /NDF:38.8/35

All: -38.005 $\pm$ 1236.718 χ^2 /NDF: 63.4/66

asym_at2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 7227.590 $\pm$ 1.940 χ^2 /NDF: 503260.9/15

Left Out: 7617.269 $\pm$ 1.562 χ^2 /NDF: 2718312.0/16

Right Out: 6240.557 $\pm$ 1.718 χ^2 /NDF: 1399077.4/18

Left In: 8976.324 $\pm$ 1.846 χ^2 /NDF: 1009891.1/14

Left: 8184.482 $\pm$ 1.192 χ^2 /NDF: 4044068.1/31

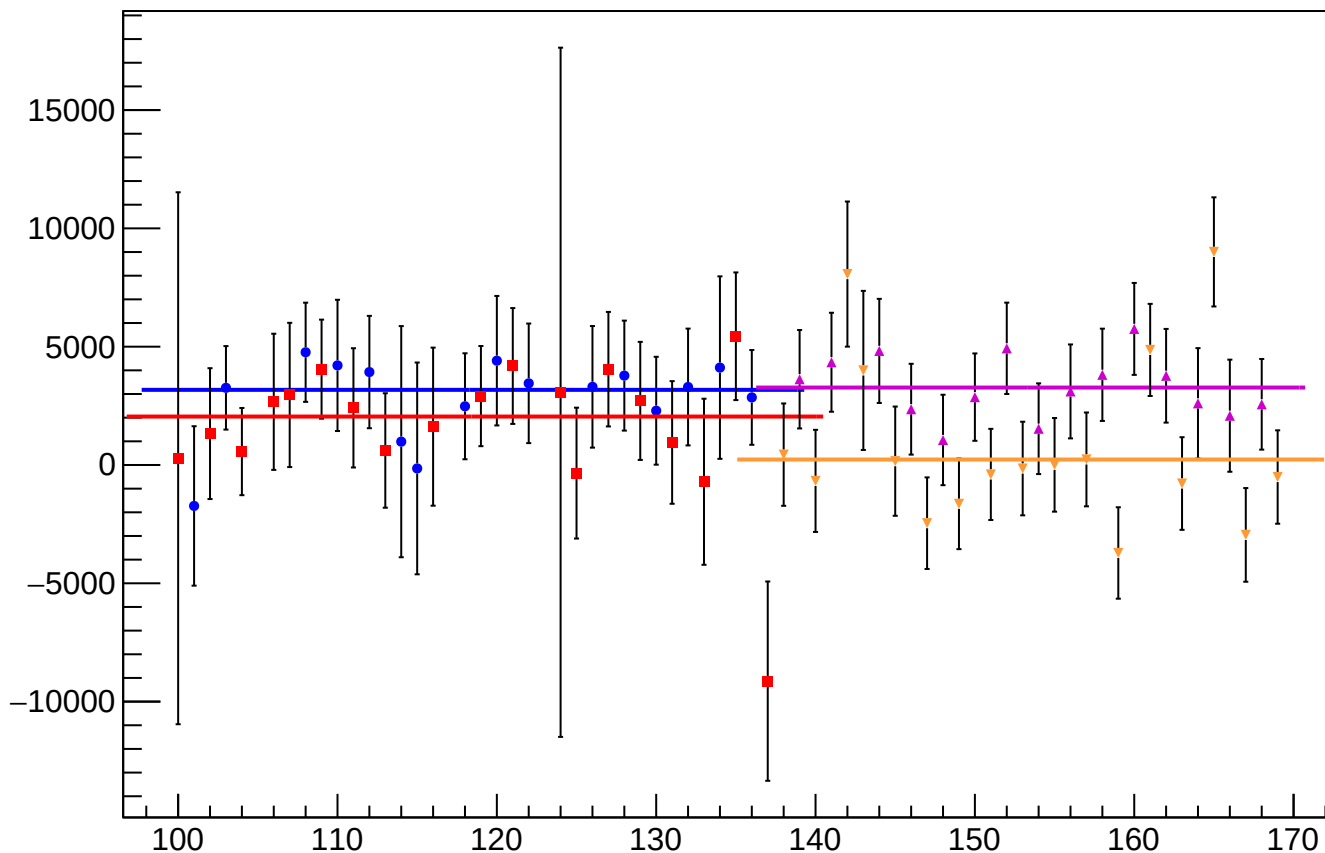
Right: 6674.473 $\pm$ 1.286 χ^2 /NDF: 2047393.1/34

In: 8145.452 $\pm$ 1.337 χ^2 /NDF: 1939617.4/30

Out: 6994.274 $\pm$ 1.156 χ^2 /NDF: 4468825.7/35

All: 7486.571 $\pm$ 0.874 χ^2 /NDF: 6832595.9/66

cor_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3175.689 $\pm$ 627.992 χ^2 /NDF: 4.3/15

Left Out: 230.540 $\pm$ 507.790 χ^2 /NDF:38.3/16

Right Out: 2047.209 $\pm$ 621.498 χ^2 /NDF: 14.0/18

Left In: 3272.647 $\pm$ 518.690 χ^2 /NDF:6.2/14

Left: 1719.292 $\pm$ 362.854 χ^2 /NDF: 62.1/31

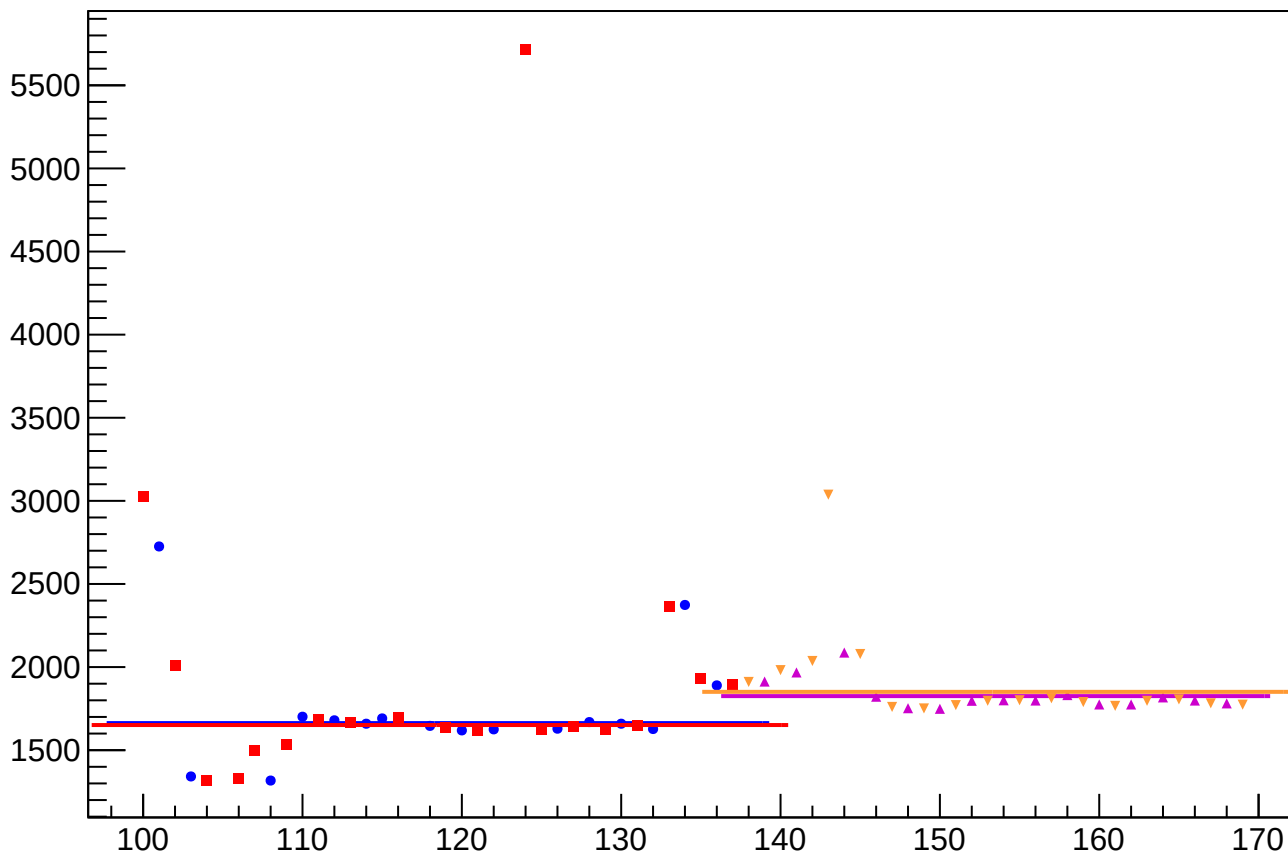
Right: 2605.584 $\pm$ 441.744 χ^2 /NDF: 20.0/34

In: 3233.326 $\pm$ 399.917 χ^2 /NDF:10.5/30

Out: 957.789 $\pm$ 393.227 χ^2 /NDF:57.5/35

All: 2076.366 $\pm$ 280.389 χ^2 /NDF: 84.5/66

cor_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1662.901+/-0.444 χ^2/NDF : 415631.0/15

Left Out: 1850.986+/-0.359 χ^2/NDF : 315016.9/16

Right Out: 1651.322+/-0.439 χ^2/NDF : 431965.2/18

Left In: 1825.322+/-0.367 χ^2/NDF : 52576.0/14

Left: 1838.426+/-0.257 χ^2/NDF : 370093.0/31

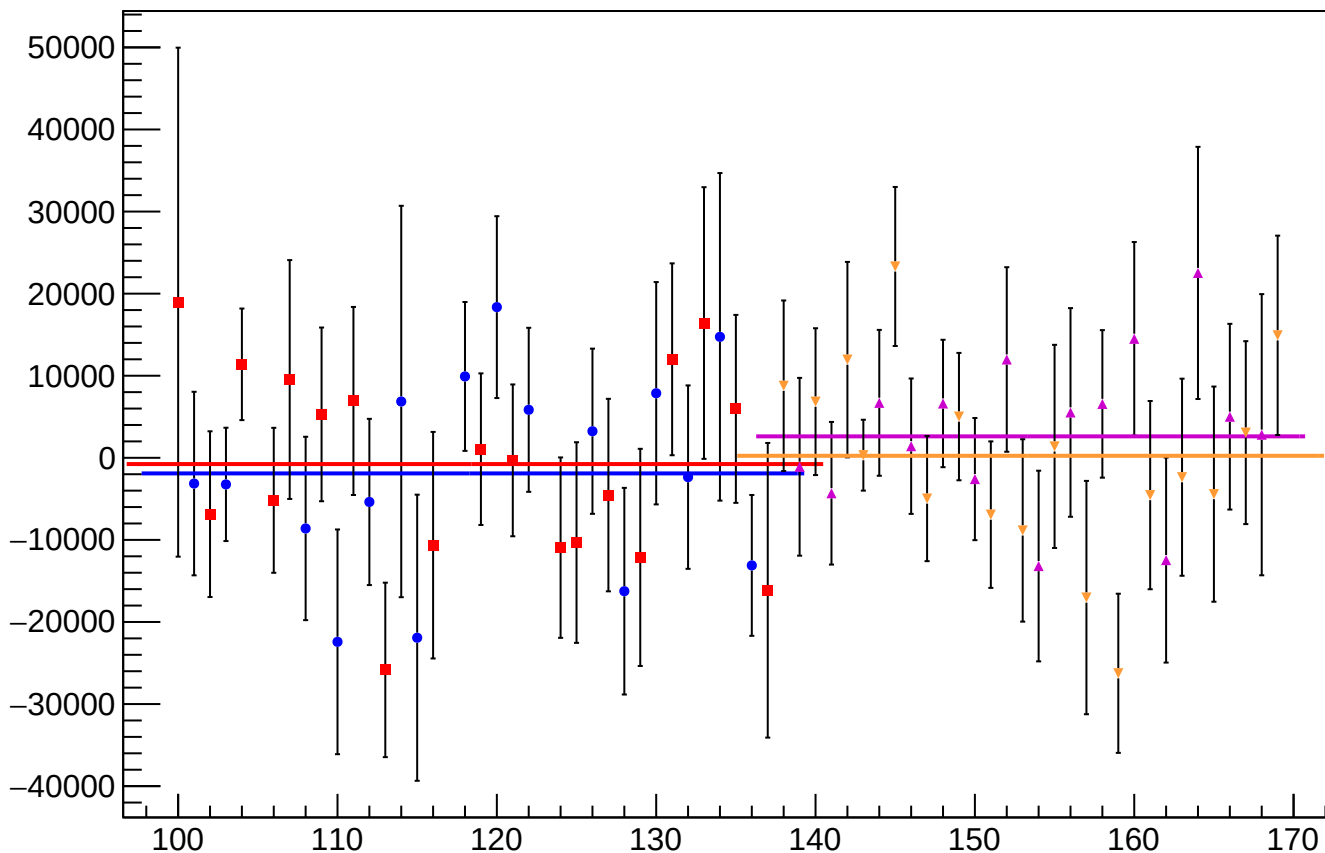
Right: 1657.051+/-0.312 χ^2/NDF : 847939.7/34

In: 1759.454+/-0.283 χ^2/NDF : 547736.3/30

Out: 1771.056+/-0.278 χ^2/NDF : 870767.4/35

All: 1765.353+/-0.198 χ^2/NDF : 1419359.5/66

asym_at2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1900.125 $\pm$ 2739.954 χ^2 /NDF: 14.4/15

Left Out: 247.774 $\pm$ 2209.298 χ^2 /NDF:20.8/16

Right Out: -762.513 $\pm$ 2549.943 χ^2 /NDF: 17.3/18

Left In: 2613.409 $\pm$ 2610.367 χ^2 /NDF:8.7/14

Left: 1235.089 $\pm$ 1686.380 χ^2 /NDF: 30.1/31

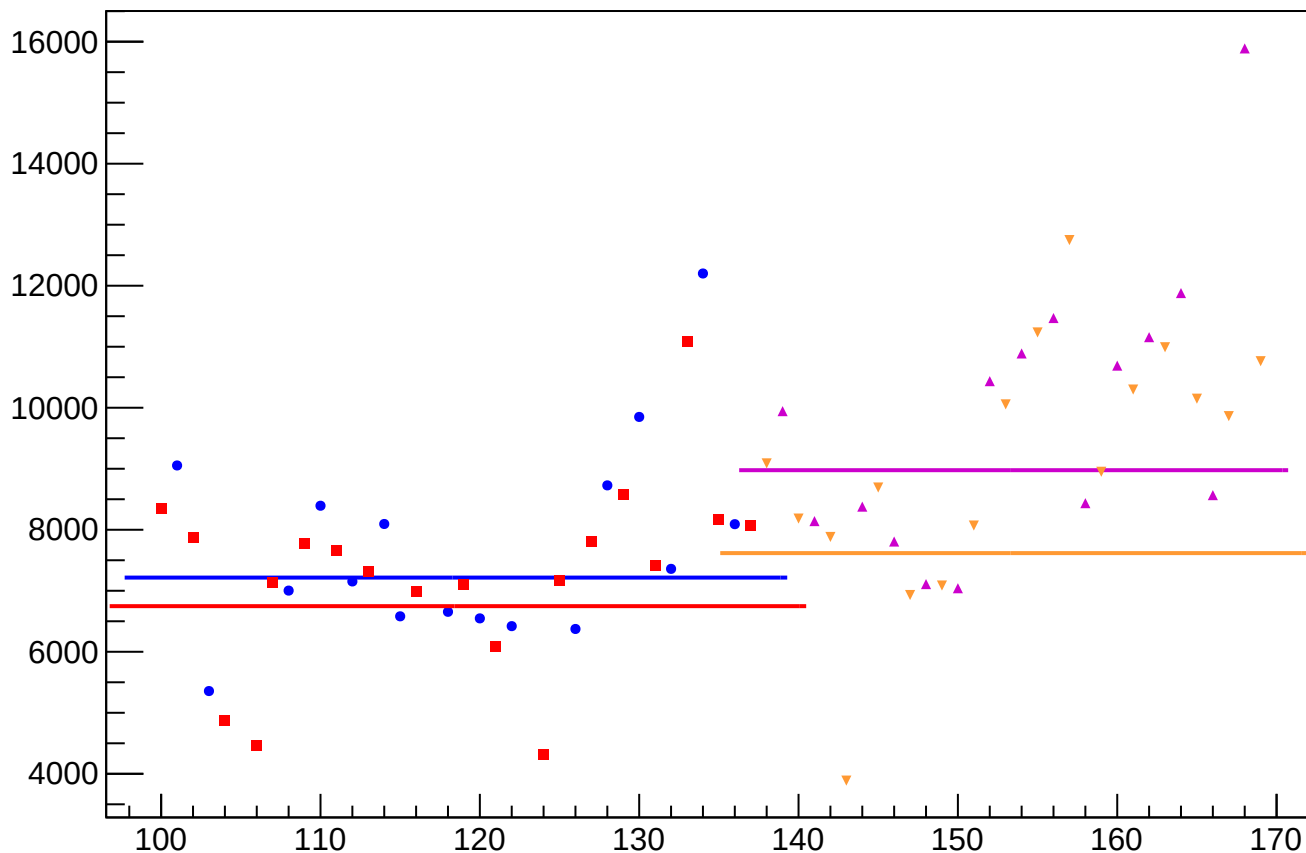
Right: -1290.509 $\pm$ 1866.644 χ^2 /NDF: 31.7/34

In: 465.897 $\pm$ 1889.960 χ^2 /NDF:24.5/30

Out: -185.426 $\pm$ 1669.754 χ^2 /NDF:38.2/35

All: 100.098 $\pm$ 1251.341 χ^2 /NDF: 62.8/66

asym_at2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 7216.029+/-1.937 χ^2/NDF : 512126.4/15

Left Out: 7617.235+/-1.562 χ^2/NDF : 2718373.8/16

Right Out: 6747.736+/-1.803 χ^2/NDF : 708793.3/18

Left In: 8976.318+/-1.846 χ^2/NDF : 1009895.2/14

Left: 8184.458+/-1.192 χ^2/NDF : 4044148.7/31

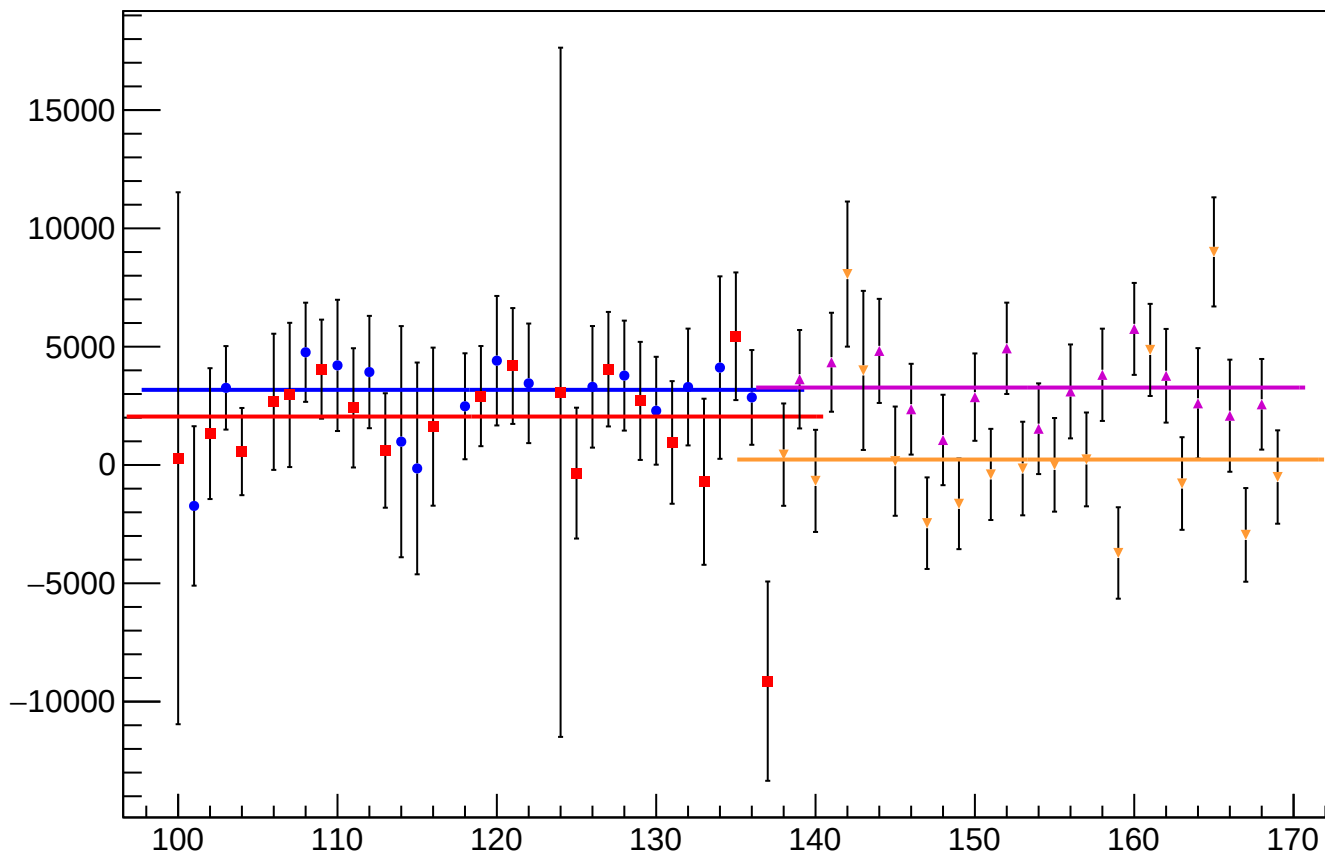
Right: 6965.084+/-1.320 χ^2/NDF : 1252226.6/34

In: 8138.784+/-1.336 χ^2/NDF : 1954748.1/30

Out: 7244.403+/-1.181 χ^2/NDF : 3559999.2/35

All: 7636.477+/-0.885 χ^2/NDF : 5766292.2/66

eigen_cor_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3175.689 $\pm$ 627.992 χ^2 /NDF: 4.3/15

Left Out: 230.540 $\pm$ 507.790 χ^2 /NDF:38.3/16

Right Out: 2047.209 $\pm$ 621.498 χ^2 /NDF: 14.0/18

Left In: 3272.647 $\pm$ 518.690 χ^2 /NDF:6.2/14

Left: 1719.292 $\pm$ 362.854 χ^2 /NDF: 62.1/31

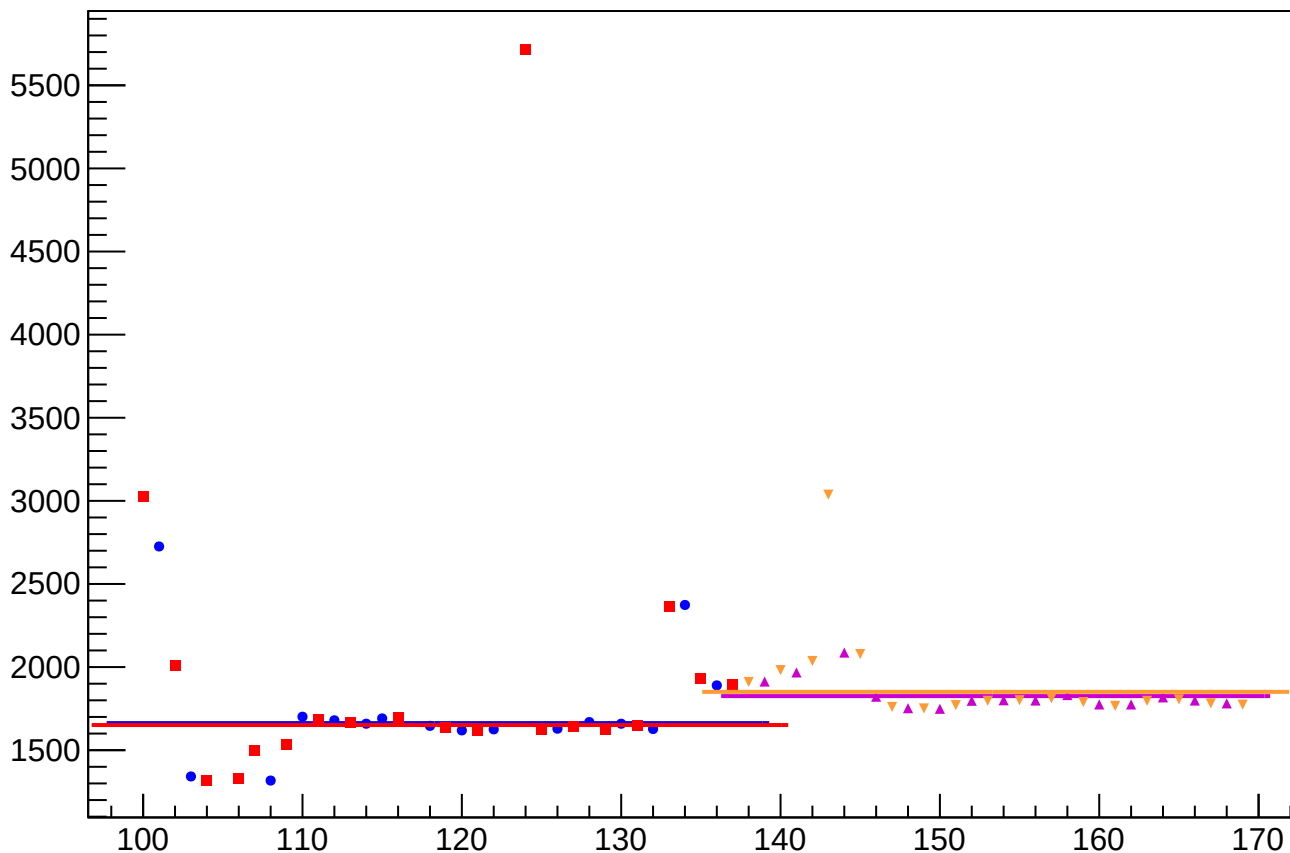
Right: 2605.584 $\pm$ 441.744 χ^2 /NDF: 20.0/34

In: 3233.326 $\pm$ 399.917 χ^2 /NDF:10.5/30

Out: 957.789 $\pm$ 393.227 χ^2 /NDF:57.5/35

All: 2076.366 $\pm$ 280.389 χ^2 /NDF: 84.5/66

eigen_cor_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1662.901 $\pm$ 0.444 χ^2 /NDF: 415631.0/15

Left Out: 1850.986 $\pm$ 0.359 χ^2 /NDF:315016.9/16

Right Out: 1651.322 $\pm$ 0.439 χ^2 /NDF: 431965.2/18

Left In: 1825.322 $\pm$ 0.367 χ^2 /NDF:52576.0/14

Left: 1838.426 $\pm$ 0.257 χ^2 /NDF: 370093.0/31

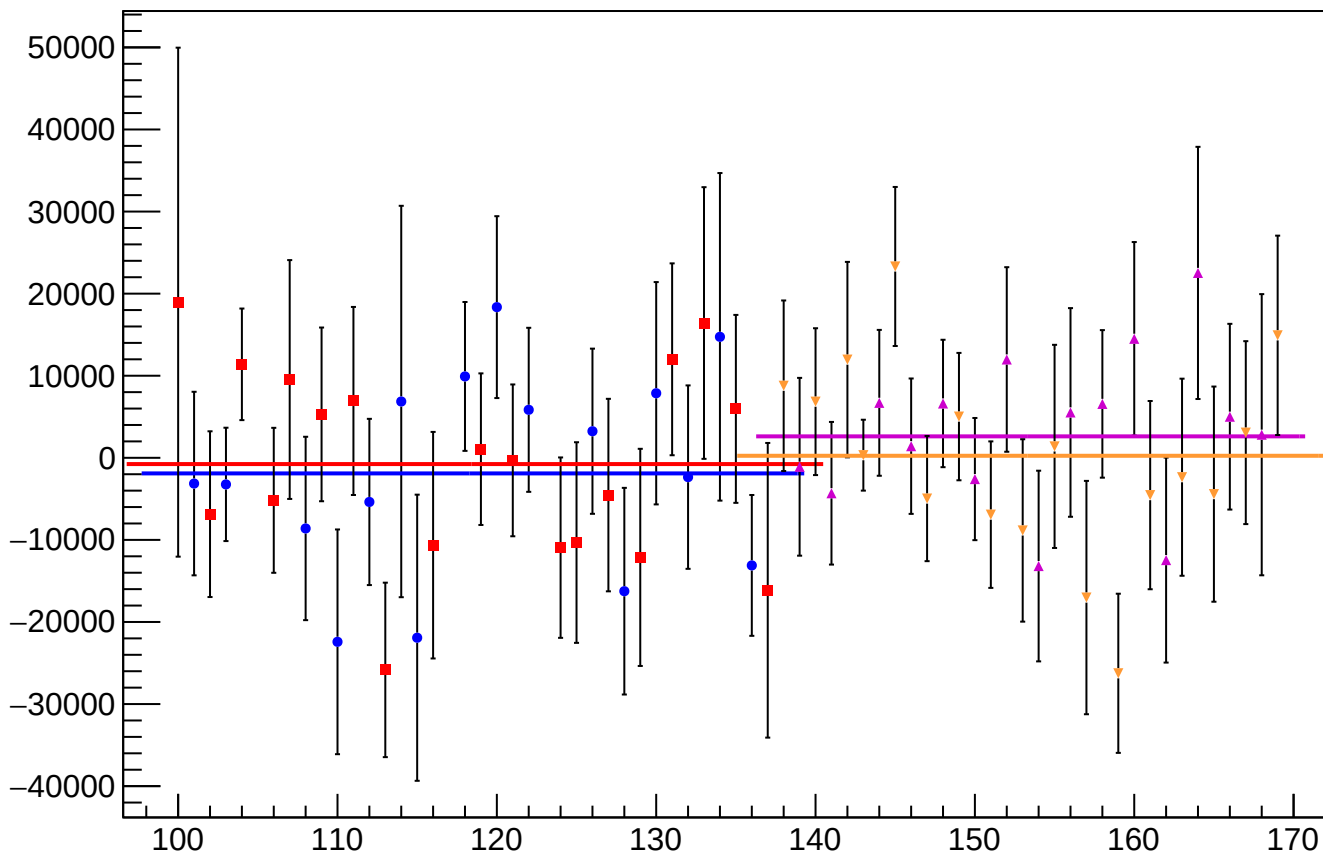
Right: 1657.051 $\pm$ 0.312 χ^2 /NDF: 847939.7/34

In: 1759.454 $\pm$ 0.283 χ^2 /NDF:547736.3/30

Out: 1771.056 $\pm$ 0.278 χ^2 /NDF:870767.4/35

All: 1765.353 $\pm$ 0.198 χ^2 /NDF: 1419359.5/66

asym_at2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1900.125+/-2739.954 χ^2/NDF : 14.4/15

Left Out: 247.774+/-2209.298 χ^2/NDF : 20.8/16

Right Out: -762.513+/-2549.943 χ^2/NDF : 17.3/18

Left In: 2613.409+/-2610.367 χ^2/NDF : 8.7/14

Left: 1235.089+/-1686.380 χ^2/NDF : 30.1/31

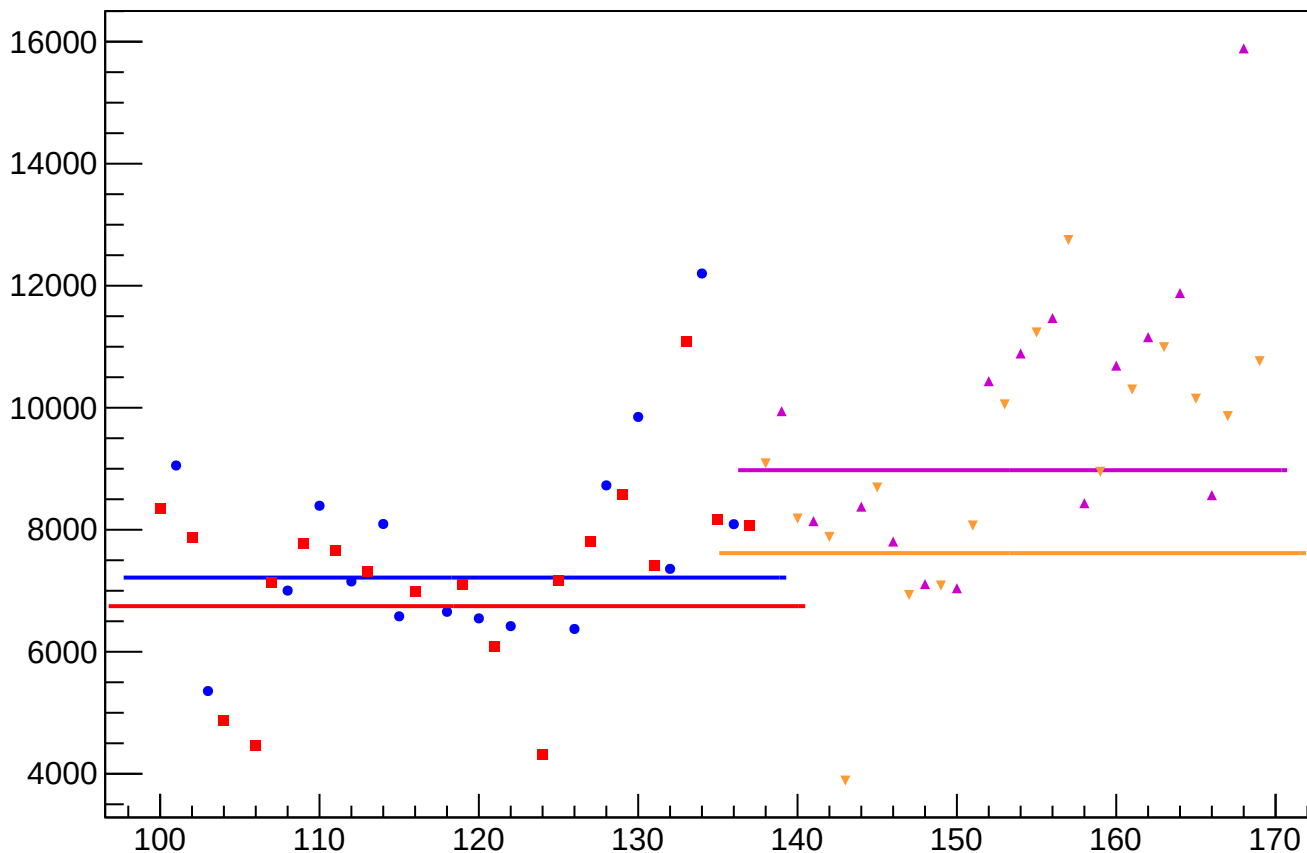
Right: -1290.509+/-1866.644 χ^2/NDF : 31.7/34

In: 465.897+/-1889.960 χ^2/NDF : 24.5/30

Out: -185.426+/-1669.754 χ^2/NDF : 38.2/35

All: 100.098+/-1251.341 χ^2/NDF : 62.8/66

asym_at2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 7216.029+/-1.937 χ^2/NDF : 512126.4/15

Left Out: 7617.235+/-1.562 χ^2/NDF : 2718373.8/16

Right Out: 6747.736+/-1.803 χ^2/NDF : 708793.3/18

Left In: 8976.318+/-1.846 χ^2/NDF : 1009895.2/14

Left: 8184.458+/-1.192 χ^2/NDF : 4044148.7/31

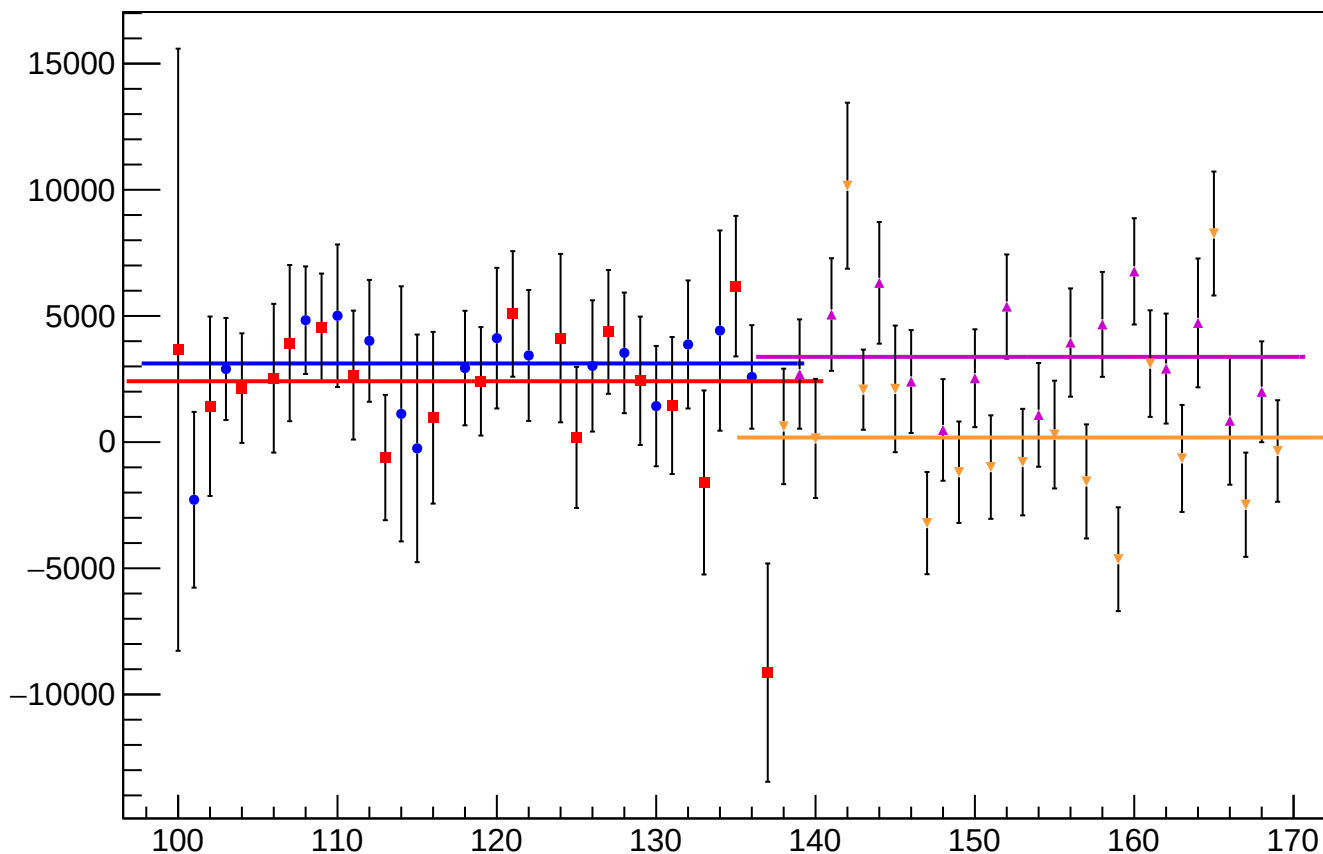
Right: 6965.084+/-1.320 χ^2/NDF : 1252226.6/34

In: 8138.784+/-1.336 χ^2/NDF : 1954748.1/30

Out: 7244.403+/-1.181 χ^2/NDF : 3559999.2/35

All: 7636.477+/-0.885 χ^2/NDF : 5766292.2/66

dit_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3117.878 $\pm$ 651.119 χ^2 /NDF: 5.3/15

Left Out: 181.562 $\pm$ 518.691 χ^2 /NDF:35.8/16

Right Out: 2412.473 $\pm$ 639.018 χ^2 /NDF: 16.0/18

Left In: 3379.065 $\pm$ 554.358 χ^2 /NDF:11.7/14

Left: 1674.149 $\pm$ 378.752 χ^2 /NDF: 65.2/31

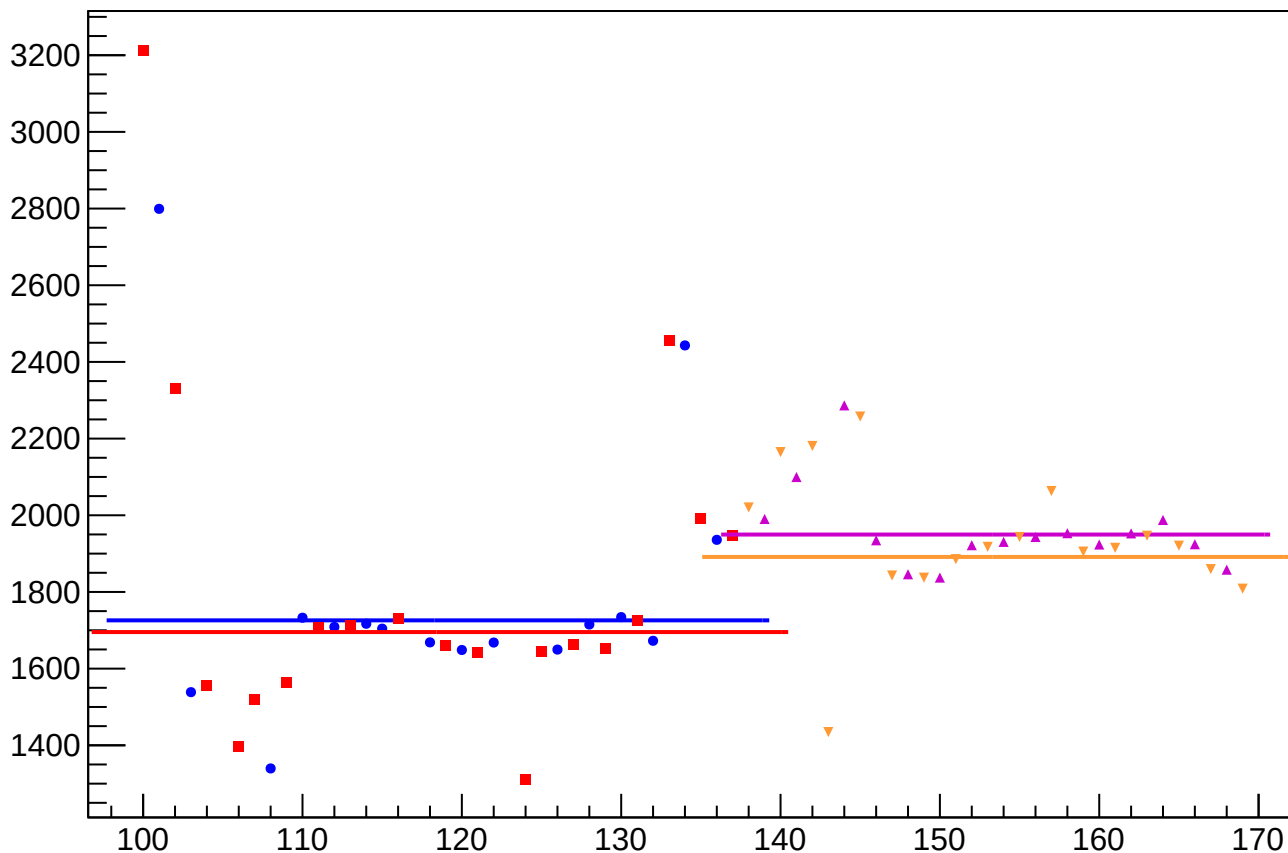
Right: 2758.560 $\pm$ 456.072 χ^2 /NDF: 21.9/34

In: 3269.302 $\pm$ 422.097 χ^2 /NDF:17.1/30

Out: 1067.625 $\pm$ 402.721 χ^2 /NDF:59.1/35

All: 2116.772 $\pm$ 291.376 χ^2 /NDF: 90.4/66

dit_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1725.911+/-0.460 χ^2/NDF : 365638.9/15

Left Out: 1891.323+/-0.367 χ^2/NDF : 278333.0/16

Right Out: 1695.387+/-0.452 χ^2/NDF : 285622.0/18

Left In: 1949.708+/-0.392 χ^2/NDF : 66626.6/14

Left: 1918.577+/-0.268 χ^2/NDF : 356788.5/31

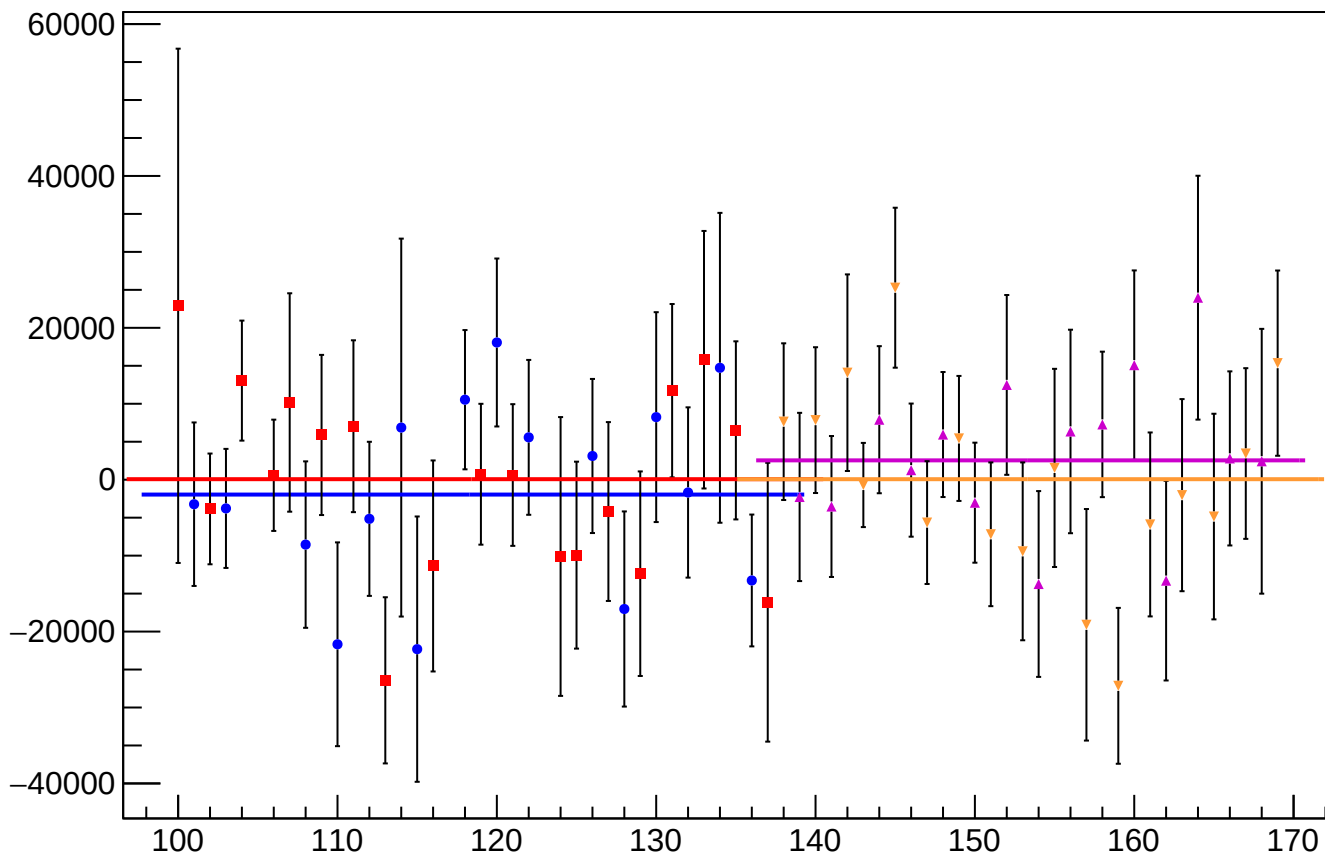
Right: 1710.357+/-0.322 χ^2/NDF : 653500.6/34

In: 1855.658+/-0.298 χ^2/NDF : 569247.0/30

Out: 1813.467+/-0.285 χ^2/NDF : 677355.6/35

All: 1833.569+/-0.206 χ^2/NDF : 1257064.3/66

asym_at2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1958.559 ± 2798.309 $\chi^2/\text{NDF}: 14.4/15$

Left Out: 66.062 ± 2431.737 $\chi^2/\text{NDF}: 21.0/16$

Right Out: 68.156 ± 2529.527 $\chi^2/\text{NDF}: 16.1/18$

Left In: 2546.161 ± 2757.964 $\chi^2/\text{NDF}: 8.7/14$

Left: 1150.825 ± 1823.986 $\chi^2/\text{NDF}: 30.1/31$

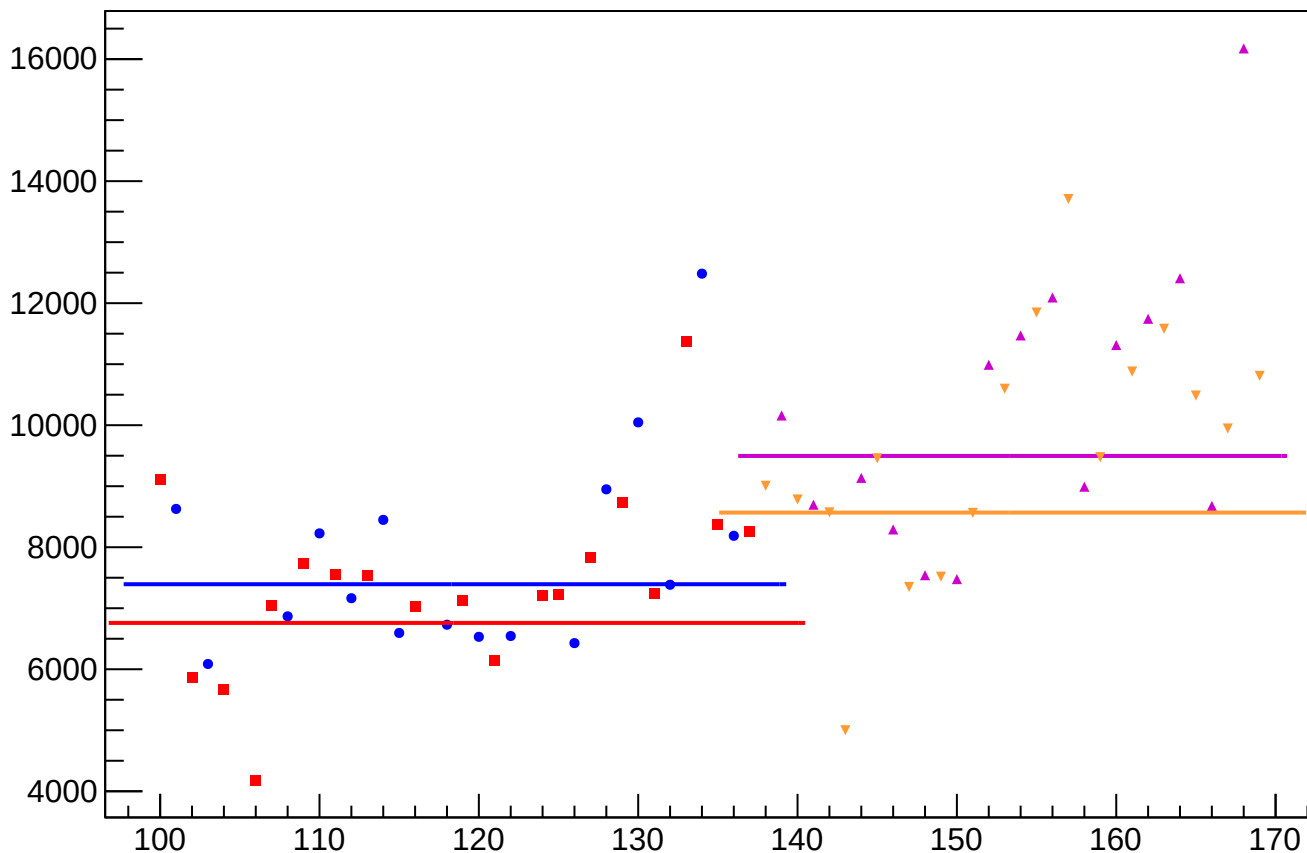
Right: -843.216 ± 1876.494 $\chi^2/\text{NDF}: 30.8/34$

In: 326.508 ± 1964.284 $\chi^2/\text{NDF}: 24.4/30$

Out: 67.068 ± 1753.050 $\chi^2/\text{NDF}: 37.1/35$

All: 182.093 ± 1307.922 $\chi^2/\text{NDF}: 61.5/66$

asym_at2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 7393.622+/-1.979 χ^2/NDF : 401826.8/15

Left Out: 8567.860+/-1.719 χ^2/NDF : 1678477.3/16

Right Out: 6759.428+/-1.789 χ^2/NDF : 644290.9/18

Left In: 9496.277+/-1.950 χ^2/NDF : 940935.2/14

Left: 8973.937+/-1.290 χ^2/NDF : 2746923.9/31

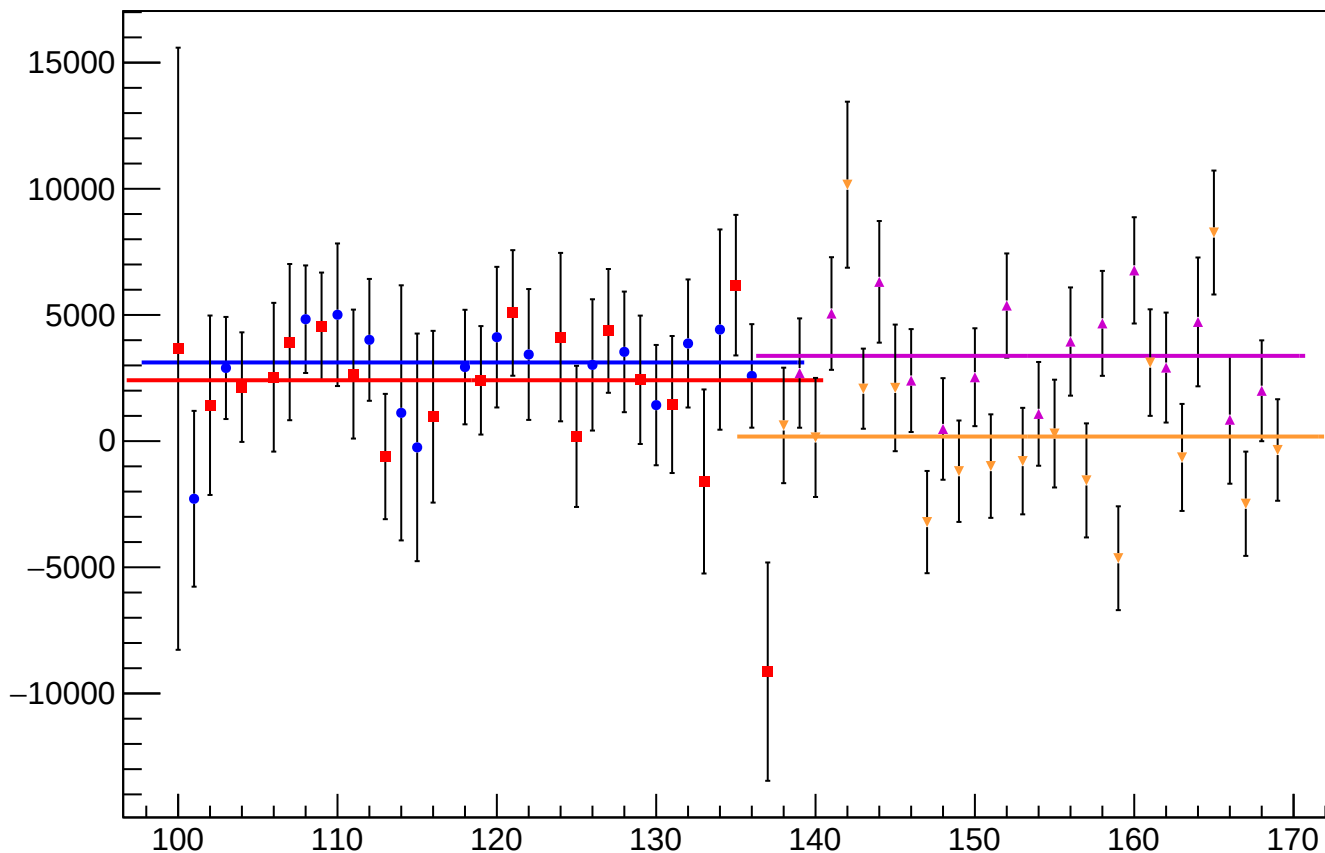
Right: 7044.612+/-1.327 χ^2/NDF : 1102650.4/34

In: 8460.217+/-1.389 χ^2/NDF : 1915565.8/30

Out: 7699.275+/-1.240 χ^2/NDF : 2854033.0/35

All: 8036.645+/-0.925 χ^2/NDF : 4936669.0/66

eigen_dit_asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 3117.882 $\pm$ 651.118 χ^2 /NDF: 5.3/15

Left Out: 181.548 $\pm$ 518.692 χ^2 /NDF:35.8/16

Right Out: 2412.481 $\pm$ 639.018 χ^2 /NDF: 16.0/18

Left In: 3379.067 $\pm$ 554.359 χ^2 /NDF:11.7/14

Left: 1674.141 $\pm$ 378.753 χ^2 /NDF: 65.2/31

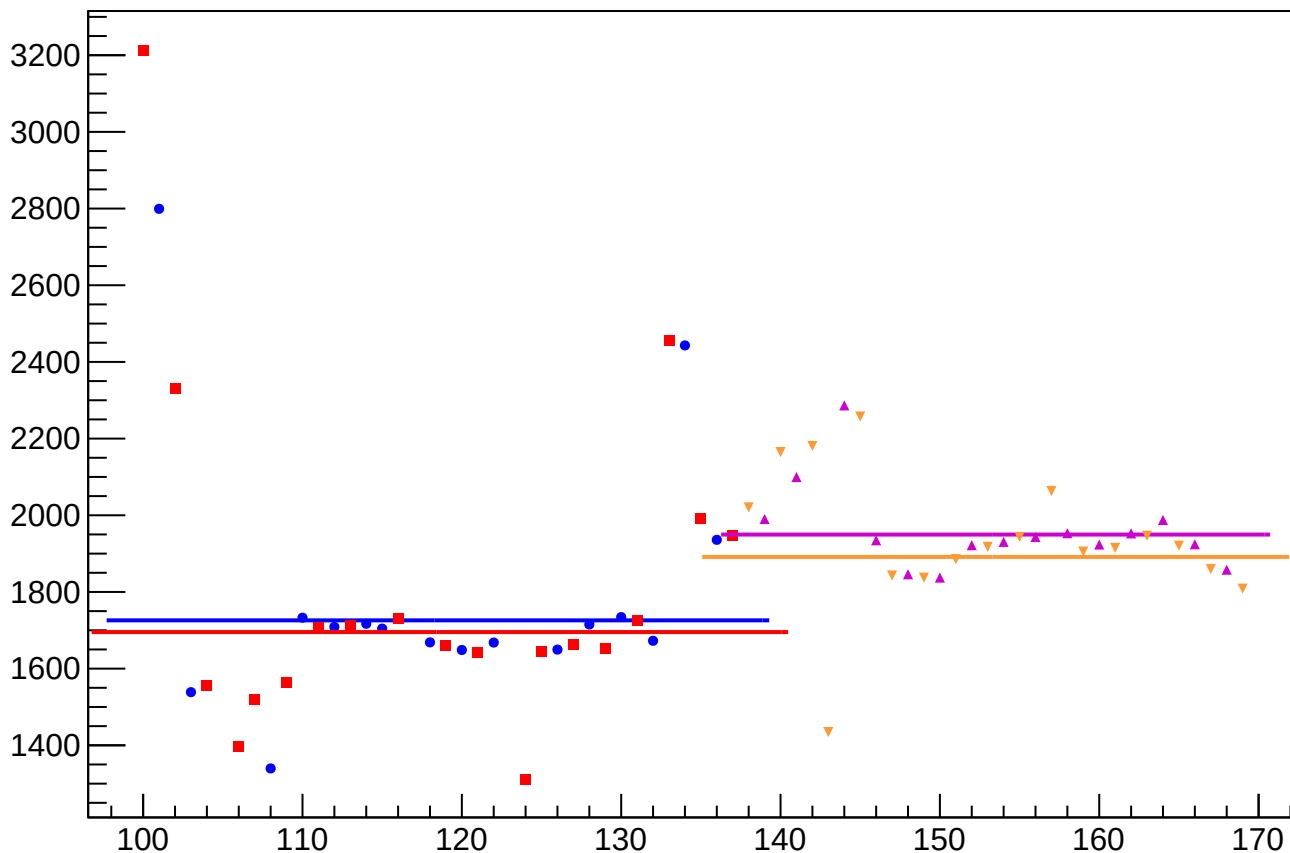
Right: 2758.566 $\pm$ 456.072 χ^2 /NDF: 21.9/34

In: 3269.304 $\pm$ 422.097 χ^2 /NDF:17.1/30

Out: 1067.622 $\pm$ 402.721 χ^2 /NDF:59.1/35

All: 2116.771 $\pm$ 291.376 χ^2 /NDF: 90.4/66

eigen_dit_asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 1725.910 ± 0.460 $\chi^2/\text{NDF}: 365639.0/15$

Left Out: 1891.326 ± 0.367 $\chi^2/\text{NDF}: 278334.6/16$

Right Out: 1695.387 ± 0.452 $\chi^2/\text{NDF}: 285622.3/18$

Left In: 1949.712 ± 0.392 $\chi^2/\text{NDF}: 66626.9/14$

Left: 1918.580 ± 0.268 $\chi^2/\text{NDF}: 356790.7/31$

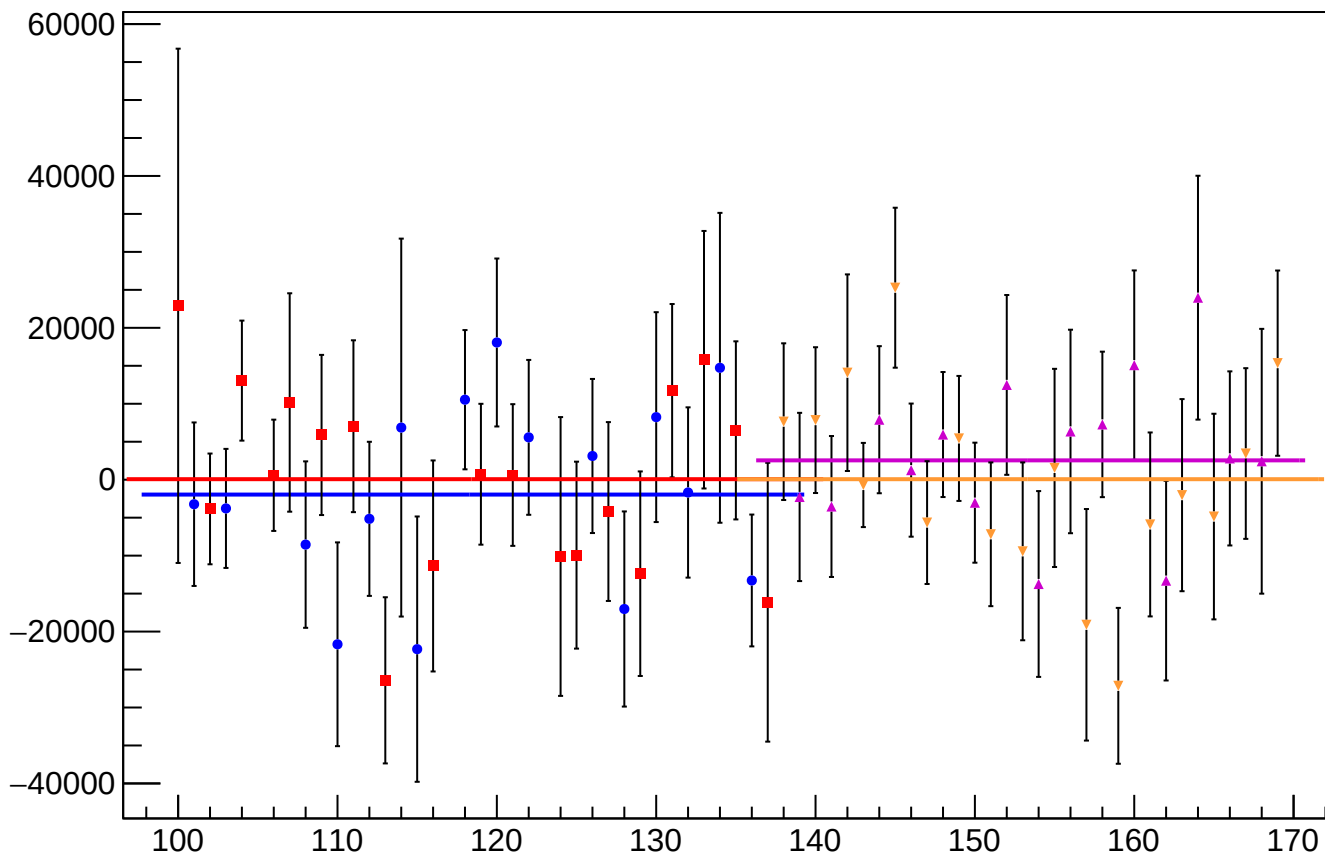
Right: 1710.357 ± 0.322 $\chi^2/\text{NDF}: 653500.9/34$

In: 1855.660 ± 0.298 $\chi^2/\text{NDF}: 569252.3/30$

Out: 1813.469 ± 0.285 $\chi^2/\text{NDF}: 677361.5/35$

All: 1833.570 ± 0.206 $\chi^2/\text{NDF}: 1257075.5/66$

asym_at2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1958.538 $\pm$ 2798.302 χ^2/NDF : 14.4/15

Left Out: 66.054 $\pm$ 2431.741 χ^2/NDF : 21.0/16

Right Out: 68.163 $\pm$ 2529.521 χ^2/NDF : 16.1/18

Left In: 2546.160 $\pm$ 2757.968 χ^2/NDF : 8.7/14

Left: 1150.820 $\pm$ 1823.989 χ^2/NDF : 30.1/31

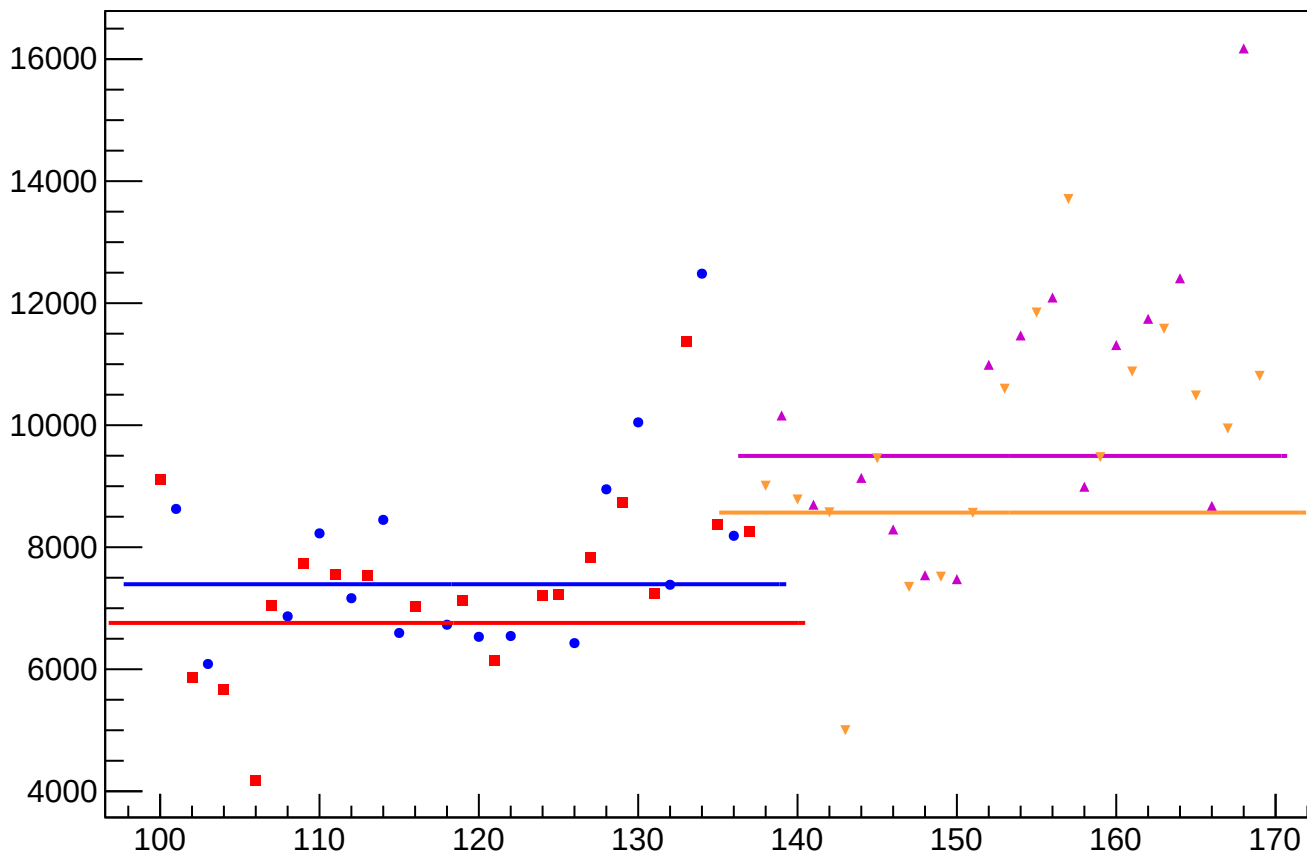
Right: -843.203 $\pm$ 1876.490 χ^2/NDF : 30.8/34

In: 326.510 $\pm$ 1964.283 χ^2/NDF : 24.4/30

Out: 67.067 $\pm$ 1753.049 χ^2/NDF : 37.1/35

All: 182.093 $\pm$ 1307.922 χ^2/NDF : 61.5/66

asym_at2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 7393.605+/-1.979 χ^2/NDF : 401829.0/15

Left Out: 8567.873+/-1.720 χ^2/NDF : 1678477.4/16

Right Out: 6759.413+/-1.789 χ^2/NDF : 644289.7/18

Left In: 9496.291+/-1.950 χ^2/NDF : 940936.9/14

Left: 8973.951+/-1.290 χ^2/NDF : 2746925.5/31

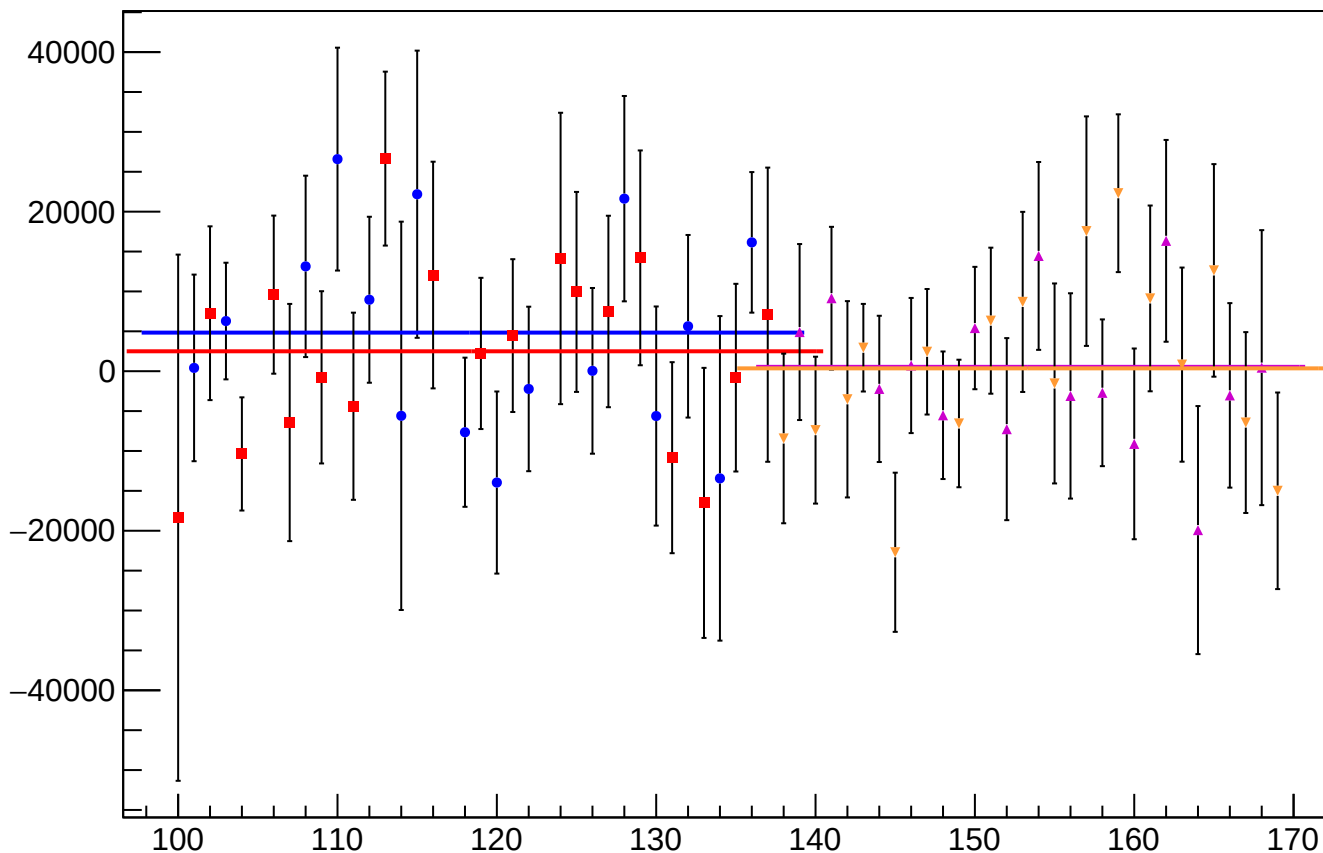
Right: 7044.596+/-1.327 χ^2/NDF : 1102651.2/34

In: 8460.211+/-1.389 χ^2/NDF : 1915587.2/30

Out: 7699.272+/-1.240 χ^2/NDF : 2854048.4/35

All: 8036.641+/-0.925 χ^2/NDF : 4936705.1/60

asym_at2_avg_mean vs Slug, Sign Corrected



Right In: 4837.820 $\pm$ 2828.918 χ^2/NDF : 14.3/15

Left Out: 357.096 $\pm$ 2372.878 χ^2/NDF : 18.5/16

Right Out: 2495.844 $\pm$ 2695.530 χ^2/NDF : 14.9/18

Left In: 545.456 $\pm$ 2670.984 χ^2/NDF : 8.3/14

Left: 440.182 $\pm$ 1773.950 χ^2/NDF : 26.8/31

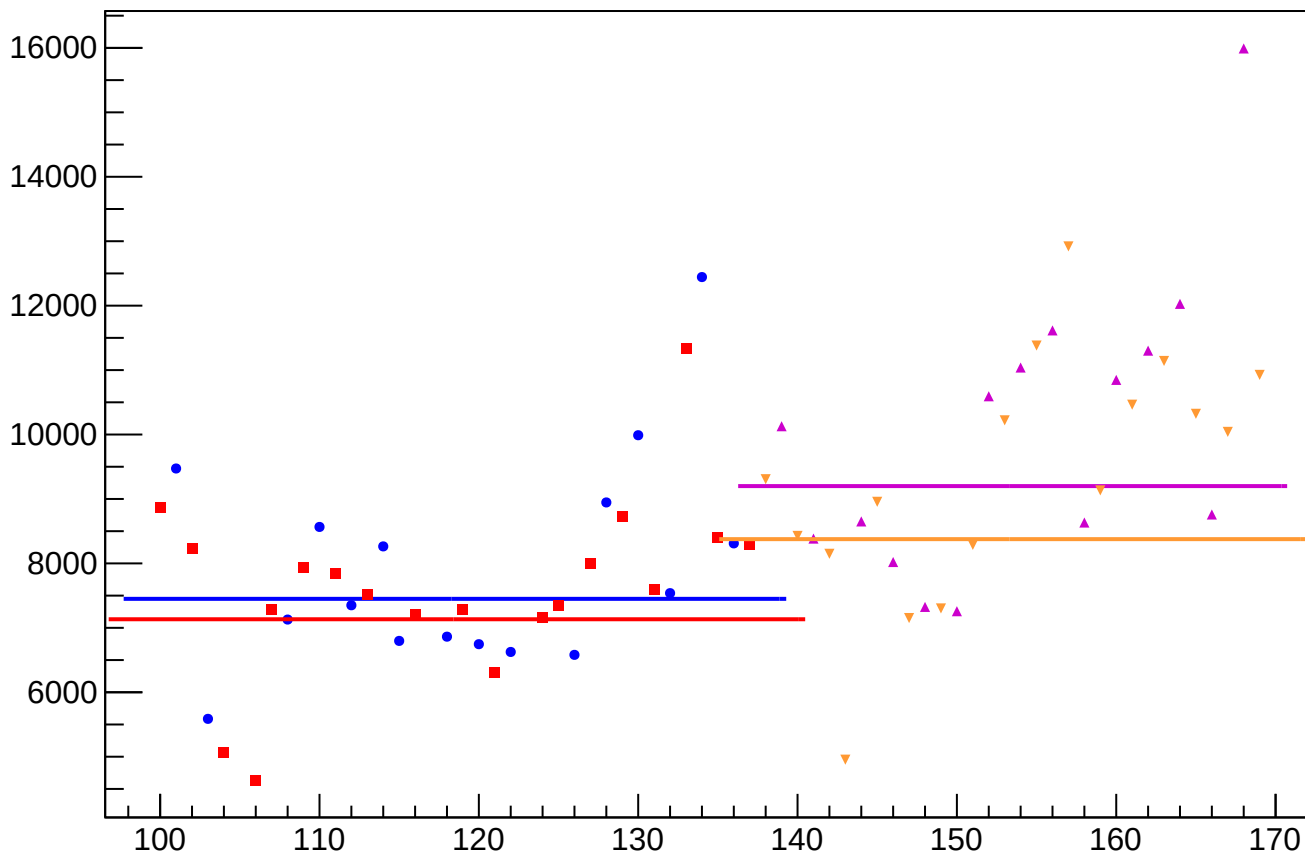
Right: 3610.318 $\pm$ 1951.480 χ^2/NDF : 29.6/34

In: 2568.481 $\pm$ 1942.105 χ^2/NDF : 23.8/30

Out: 1290.868 $\pm$ 1781.086 χ^2/NDF : 33.8/35

All: 1874.524 $\pm$ 1312.658 χ^2/NDF : 57.9/66

asym_at2_avg_rms vs Slug, Sign Corrected



Right In: 7449.985 $\pm$ 2.000 χ^2 /NDF: 486427.7/15

Left Out: 8376.454 $\pm$ 1.678 χ^2 /NDF:1602893.4/16

Right Out: 7133.115 $\pm$ 1.906 χ^2 /NDF: 556993.0/18

Left In: 9199.724 $\pm$ 1.889 χ^2 /NDF:944409.5/14

Left: 8739.601 $\pm$ 1.254 χ^2 /NDF: 2653498.0/31

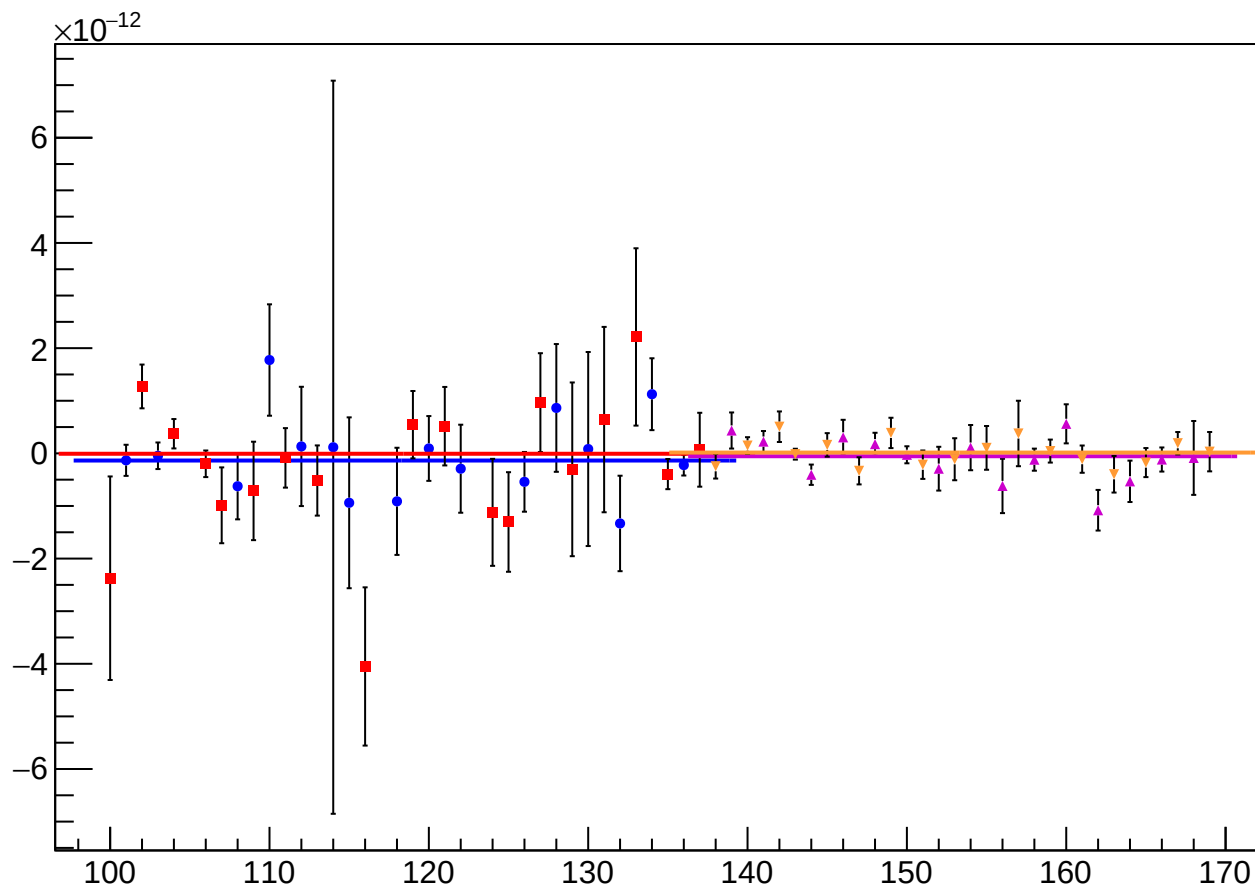
Right: 7283.894 $\pm$ 1.380 χ^2 /NDF: 1056573.7/34

In: 8375.051 $\pm$ 1.373 χ^2 /NDF:1835359.7/30

Out: 7833.572 $\pm$ 1.259 χ^2 /NDF:2399644.9/35

All: 8080.931 $\pm$ 0.928 χ^2 /NDF: 4319453.6/66

asym_at2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 11.6/15

Left Out: 0.000+/-0.000 χ^2 /NDF:12.8/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 32.8/18

Left In: -0.000+/-0.000 χ^2 /NDF:22.7/14

Left: -0.000+/-0.000 χ^2 /NDF: 36.2/31

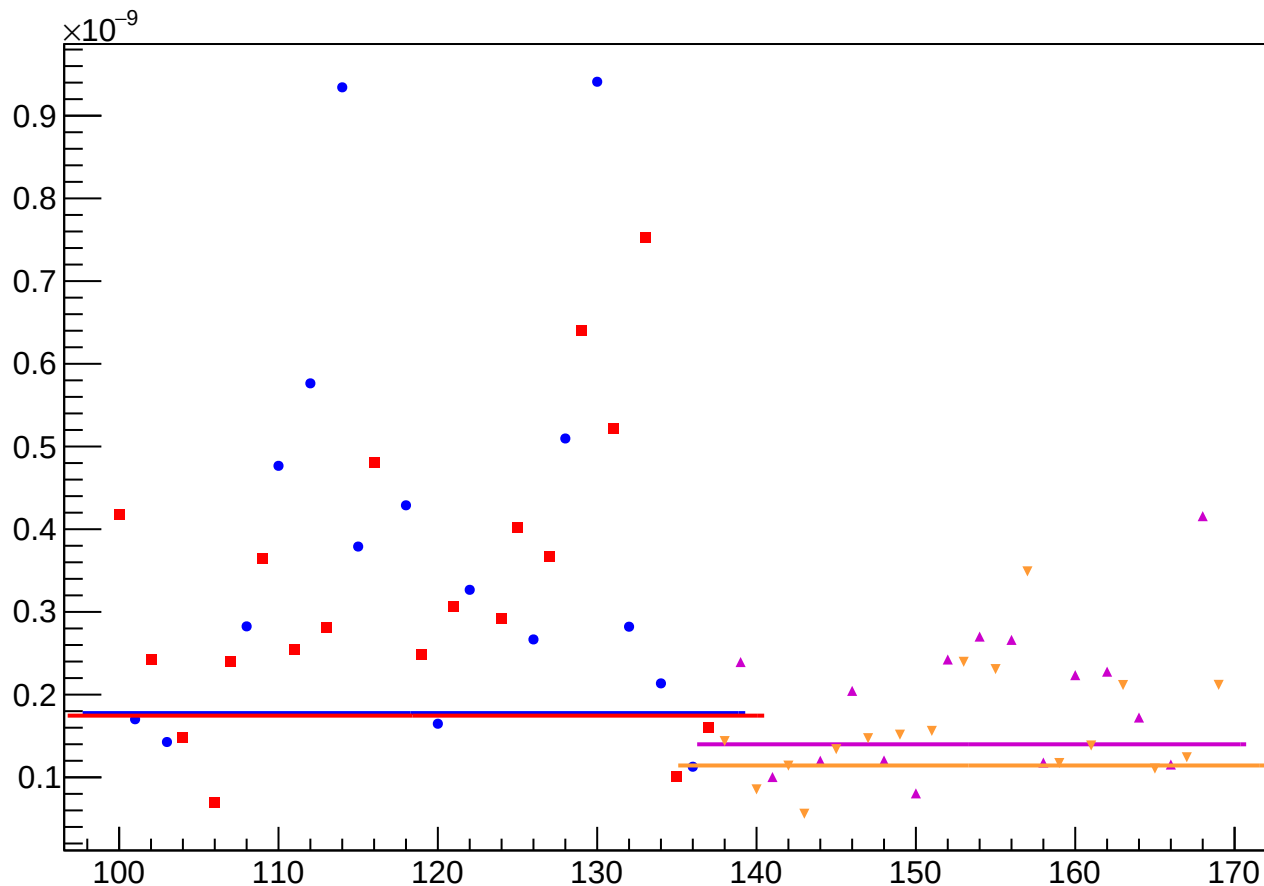
Right: -0.000+/-0.000 χ^2 /NDF: 44.9/34

In: -0.000+/-0.000 χ^2 /NDF:34.6/30

Out: 0.000+/-0.000 χ^2 /NDF:45.6/35

All: -0.000+/-0.000 χ^2 /NDF: 81.5/66

asym_at2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1530066.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1817687.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1641366.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 1623219.0/14

Left: 0.000+/-0.000 χ^2/NDF : 3607022.8/31

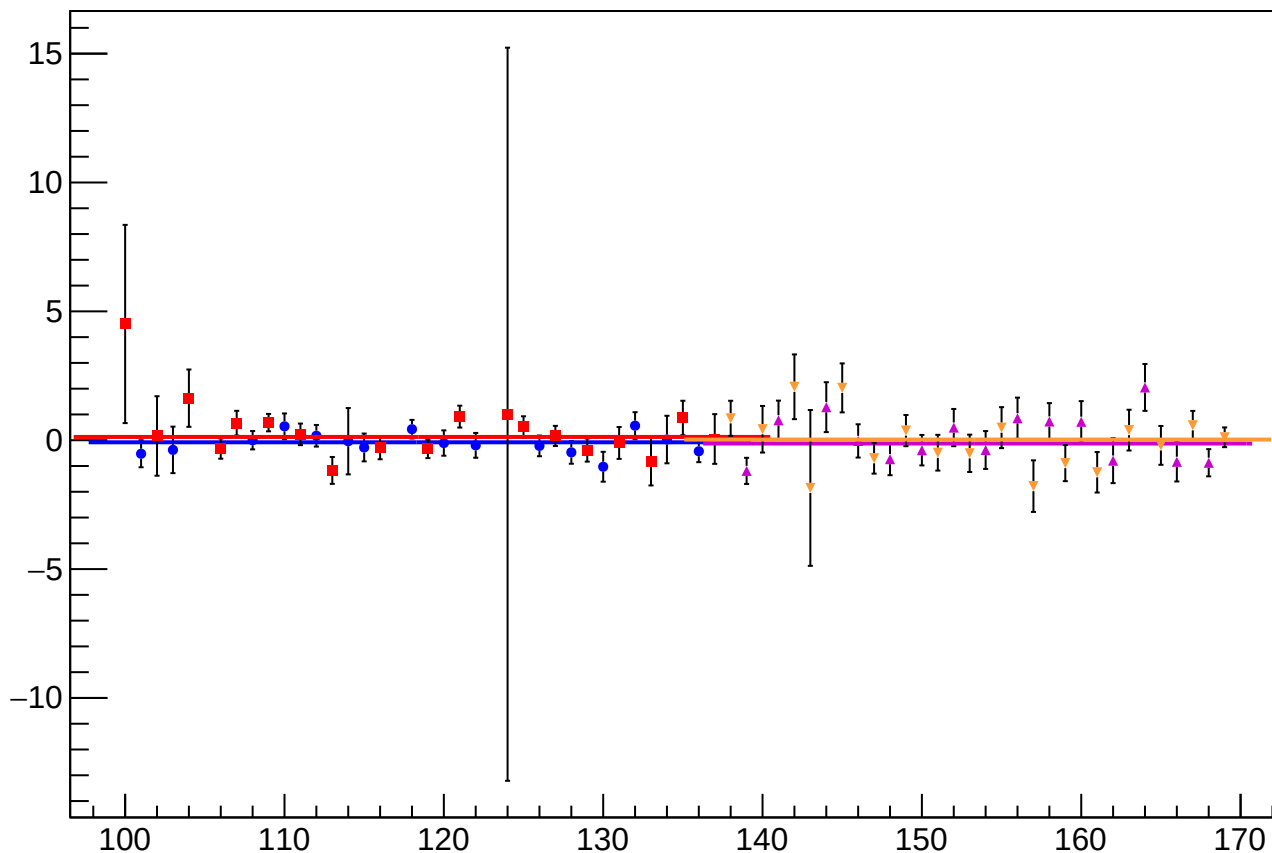
Right: 0.000+/-0.000 χ^2/NDF : 3172068.5/34

In: 0.000+/-0.000 χ^2/NDF : 3301759.2/30

Out: 0.000+/-0.000 χ^2/NDF : 3857886.5/35

All: 0.000+/-0.000 χ^2/NDF : 7360595.3/66

asym_at2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.122 χ^2/NDF : 10.8/15

Left Out: 0.025 ± 0.171 χ^2/NDF : 21.3/16

Right Out: 0.128 ± 0.117 χ^2/NDF : 25.3/18

Left In: -0.128 ± 0.179 χ^2/NDF : 23.2/14

Left: -0.047 ± 0.123 χ^2/NDF : 44.8/31

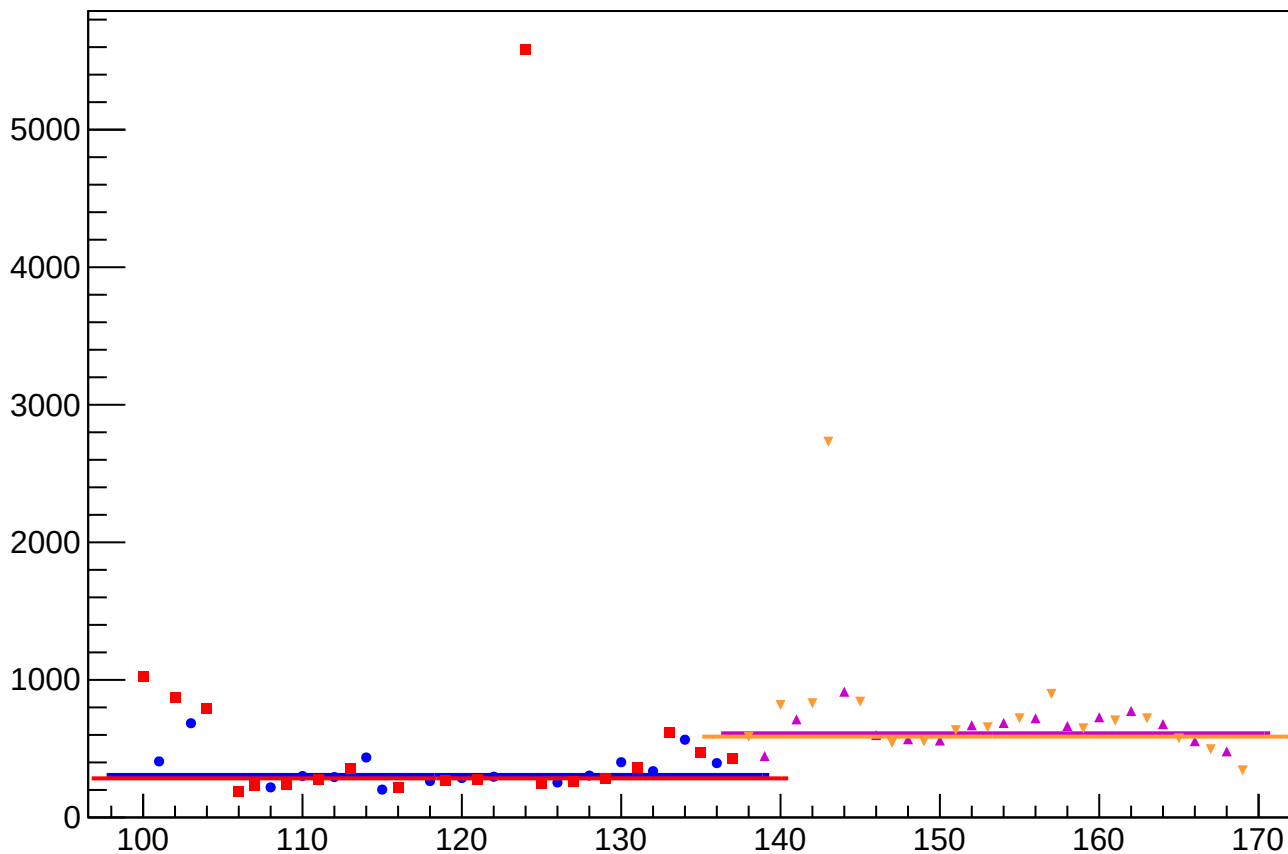
Right: 0.028 ± 0.084 χ^2/NDF : 37.5/34

In: -0.095 ± 0.101 χ^2/NDF : 34.0/30

Out: 0.095 ± 0.096 χ^2/NDF : 46.8/35

All: 0.004 ± 0.070 χ^2/NDF : 82.6/66

asym_at2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 309.093+/-0.086 χ^2/NDF : 1014604.9/15

Left Out: 587.507+/-0.121 χ^2/NDF : 2641728.2/16

Right Out: 284.189+/-0.083 χ^2/NDF : 1856451.4/18

Left In: 611.736+/-0.127 χ^2/NDF : 809719.7/14

Left: 599.033+/-0.087 χ^2/NDF : 3470661.0/31

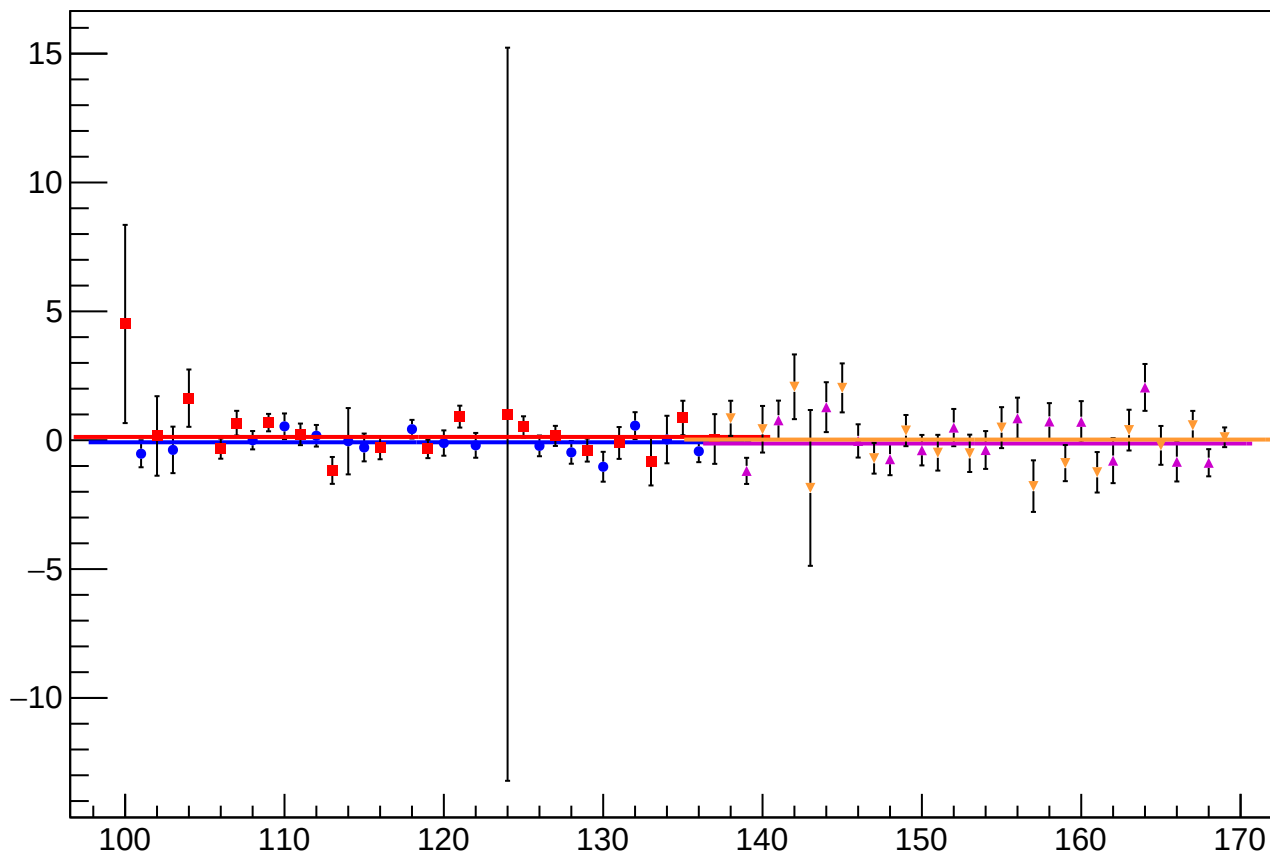
Right: 296.124+/-0.060 χ^2/NDF : 2914551.5/34

In: 404.947+/-0.071 χ^2/NDF : 5730958.5/30

Out: 381.186+/-0.068 χ^2/NDF : 8803268.3/35

All: 392.547+/-0.049 χ^2/NDF : 14592293.8/66

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.122 χ^2/NDF : 10.8/15

Left Out: 0.025 ± 0.171 χ^2/NDF : 21.3/16

Right Out: 0.128 ± 0.117 χ^2/NDF : 25.3/18

Left In: -0.128 ± 0.179 χ^2/NDF : 23.2/14

Left: -0.047 ± 0.123 χ^2/NDF : 44.8/31

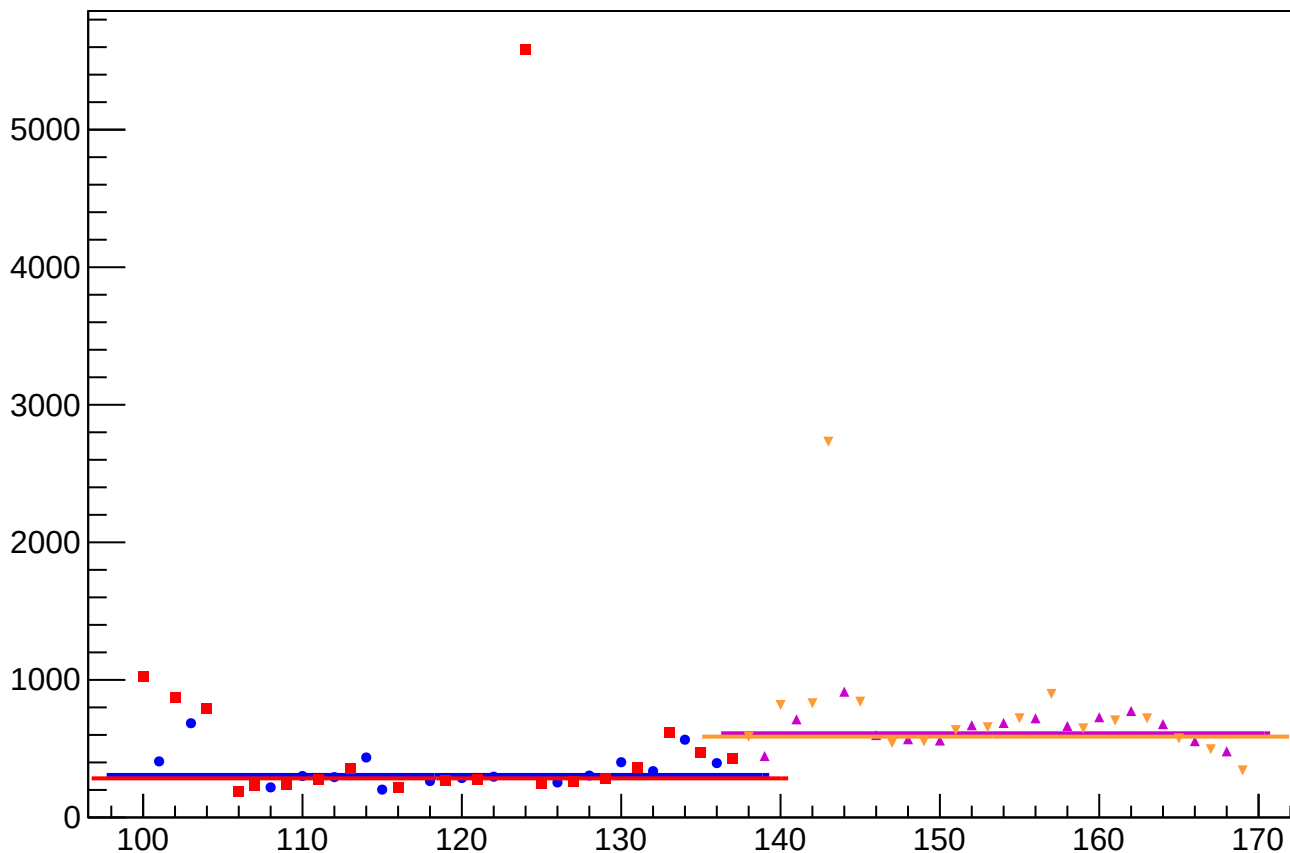
Right: 0.028 ± 0.084 χ^2/NDF : 37.5/34

In: -0.095 ± 0.101 χ^2/NDF : 34.0/30

Out: 0.095 ± 0.096 χ^2/NDF : 46.8/35

All: 0.004 ± 0.070 χ^2/NDF : 82.6/66

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 309.093+/-0.086 χ^2/NDF : 1014604.9/15

Left Out: 587.507+/-0.121 χ^2/NDF : 2641728.2/16

Right Out: 284.189+/-0.083 χ^2/NDF : 1856451.4/18

Left In: 611.736+/-0.127 χ^2/NDF : 809719.7/14

Left: 599.033+/-0.087 χ^2/NDF : 3470661.0/31

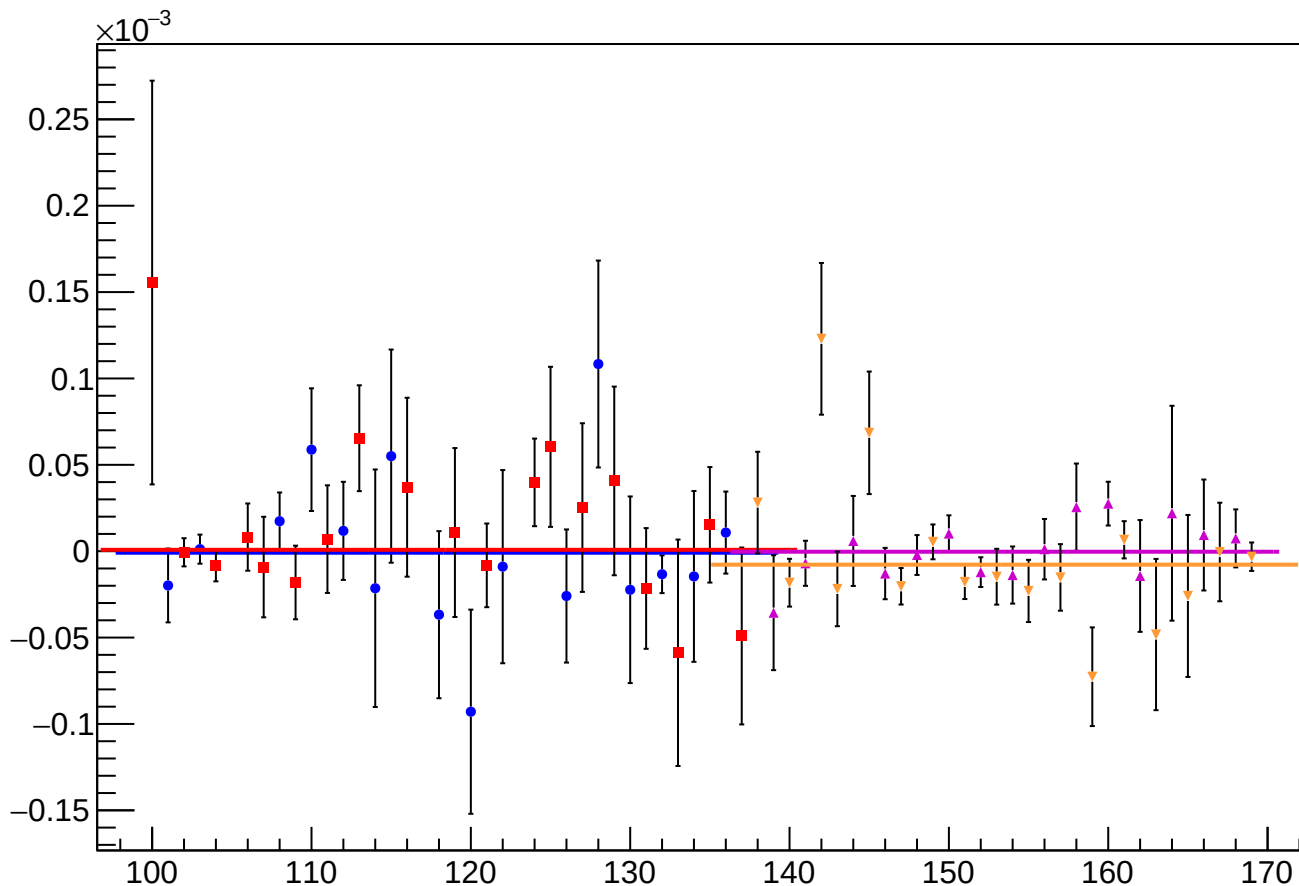
Right: 296.124+/-0.060 χ^2/NDF : 2914551.5/34

In: 404.947+/-0.071 χ^2/NDF : 5730958.5/30

Out: 381.186+/-0.068 χ^2/NDF : 8803268.4/35

All: 392.547+/-0.049 χ^2/NDF : 14592293.8/66

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 14.5/15

Left Out: -0.000+/-0.000 χ^2 /NDF:29.5/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 16.1/18

Left In: -0.000+/-0.000 χ^2 /NDF:12.2/14

Left: -0.000+/-0.000 χ^2 /NDF: 43.7/31

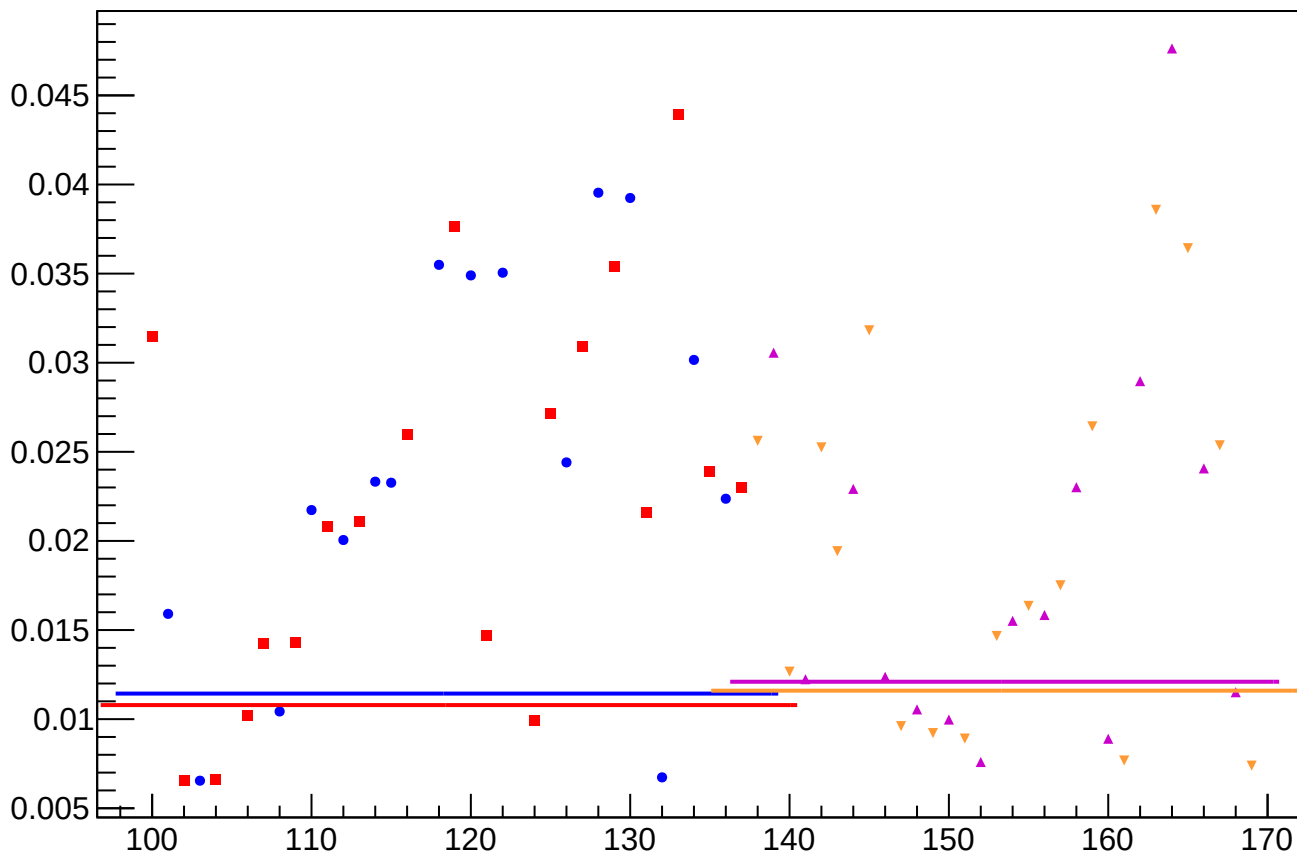
Right: 0.000+/-0.000 χ^2 /NDF: 30.7/34

In: -0.000+/-0.000 χ^2 /NDF:26.7/30

Out: -0.000+/-0.000 χ^2 /NDF:47.6/35

All: -0.000+/-0.000 χ^2 /NDF: 75.3/66

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000

χ^2/NDF : 4699938.2/15

Left Out: 0.012+/-0.000

χ^2/NDF : 5415280.1/16

Right Out: 0.011+/-0.000

χ^2/NDF : 4473688.9/18

Left In: 0.012+/-0.000

χ^2/NDF : 3781794.5/14

Left: 0.012+/-0.000

χ^2/NDF : 9214322.6/31

Right: 0.011+/-0.000

χ^2/NDF : 9189725.1/34

In: 0.012+/-0.000

χ^2/NDF : 8501734.7/30

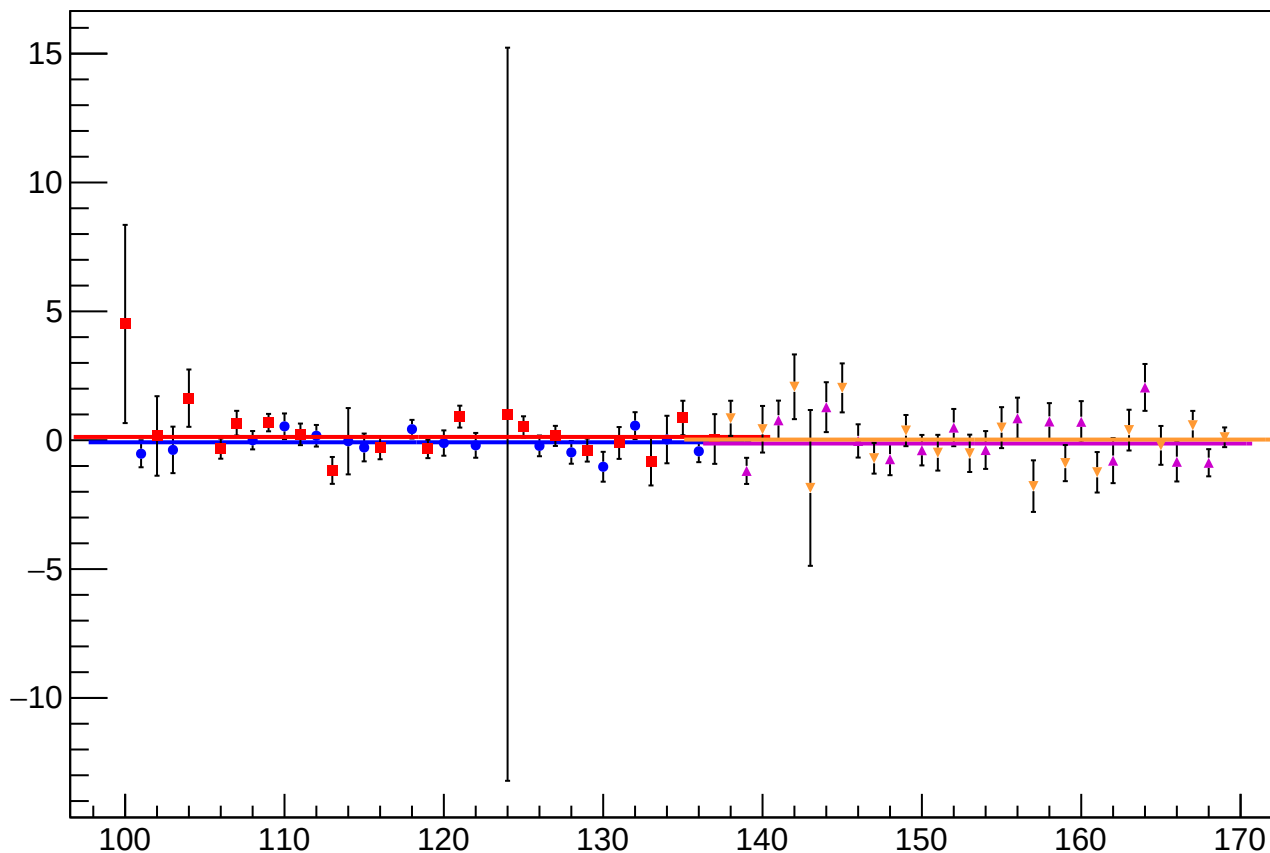
Out: 0.011+/-0.000

χ^2/NDF : 9924588.3/35

All: 0.012+/-0.000

χ^2/NDF : 18459439.4/66

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.122 χ^2/NDF : 10.8/15

Left Out: 0.025 ± 0.171 χ^2/NDF : 21.3/16

Right Out: 0.128 ± 0.117 χ^2/NDF : 25.3/18

Left In: -0.128 ± 0.179 χ^2/NDF : 23.2/14

Left: -0.047 ± 0.123 χ^2/NDF : 44.8/31

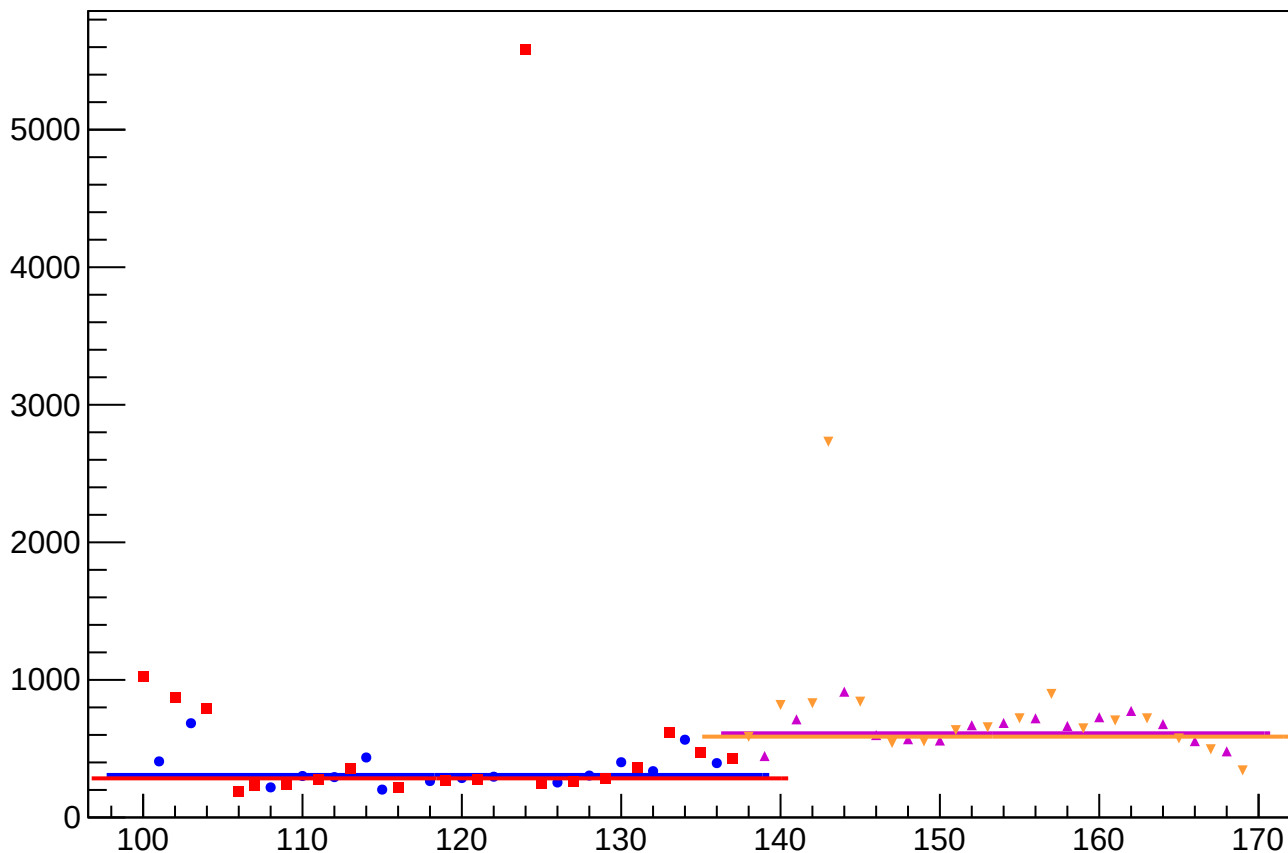
Right: 0.028 ± 0.084 χ^2/NDF : 37.5/34

In: -0.095 ± 0.101 χ^2/NDF : 34.0/30

Out: 0.095 ± 0.096 χ^2/NDF : 46.8/35

All: 0.004 ± 0.070 χ^2/NDF : 82.6/66

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 309.093+/-0.086 χ^2/NDF : 1014573.4/15

Left Out: 587.512+/-0.121 χ^2/NDF : 2641801.0/16

Right Out: 284.188+/-0.083 χ^2/NDF : 1856434.1/18

Left In: 611.746+/-0.127 χ^2/NDF : 809702.6/14

Left: 599.041+/-0.087 χ^2/NDF : 3470723.0/31

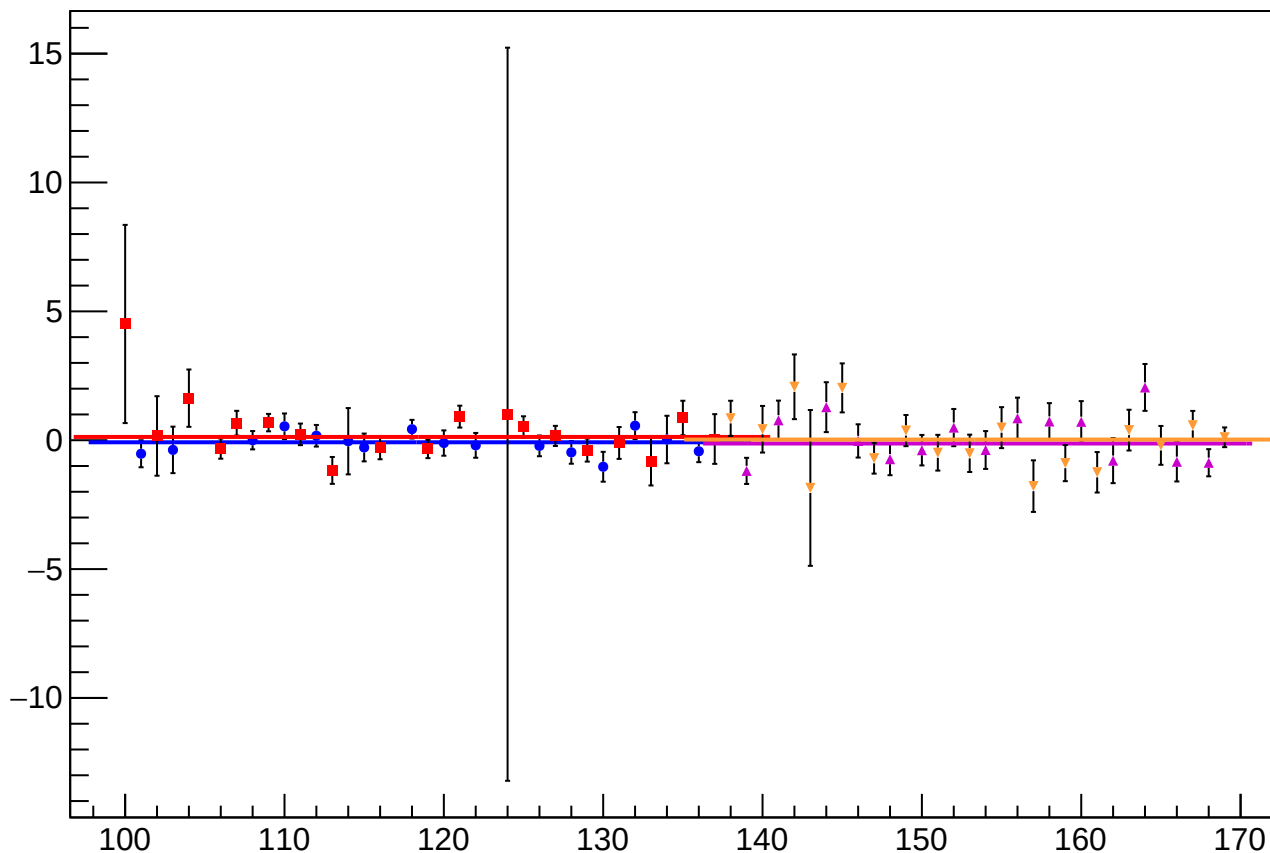
Right: 296.124+/-0.060 χ^2/NDF : 2914502.7/34

In: 404.947+/-0.071 χ^2/NDF : 5731108.9/30

Out: 381.186+/-0.068 χ^2/NDF : 8803446.5/35

All: 392.547+/-0.049 χ^2/NDF : 14592624.9/66

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.080 ± 0.122 χ^2/NDF : 10.8/15

Left Out: 0.025 ± 0.171 χ^2/NDF : 21.3/16

Right Out: 0.128 ± 0.117 χ^2/NDF : 25.3/18

Left In: -0.128 ± 0.179 χ^2/NDF : 23.2/14

Left: -0.047 ± 0.123 χ^2/NDF : 44.8/31

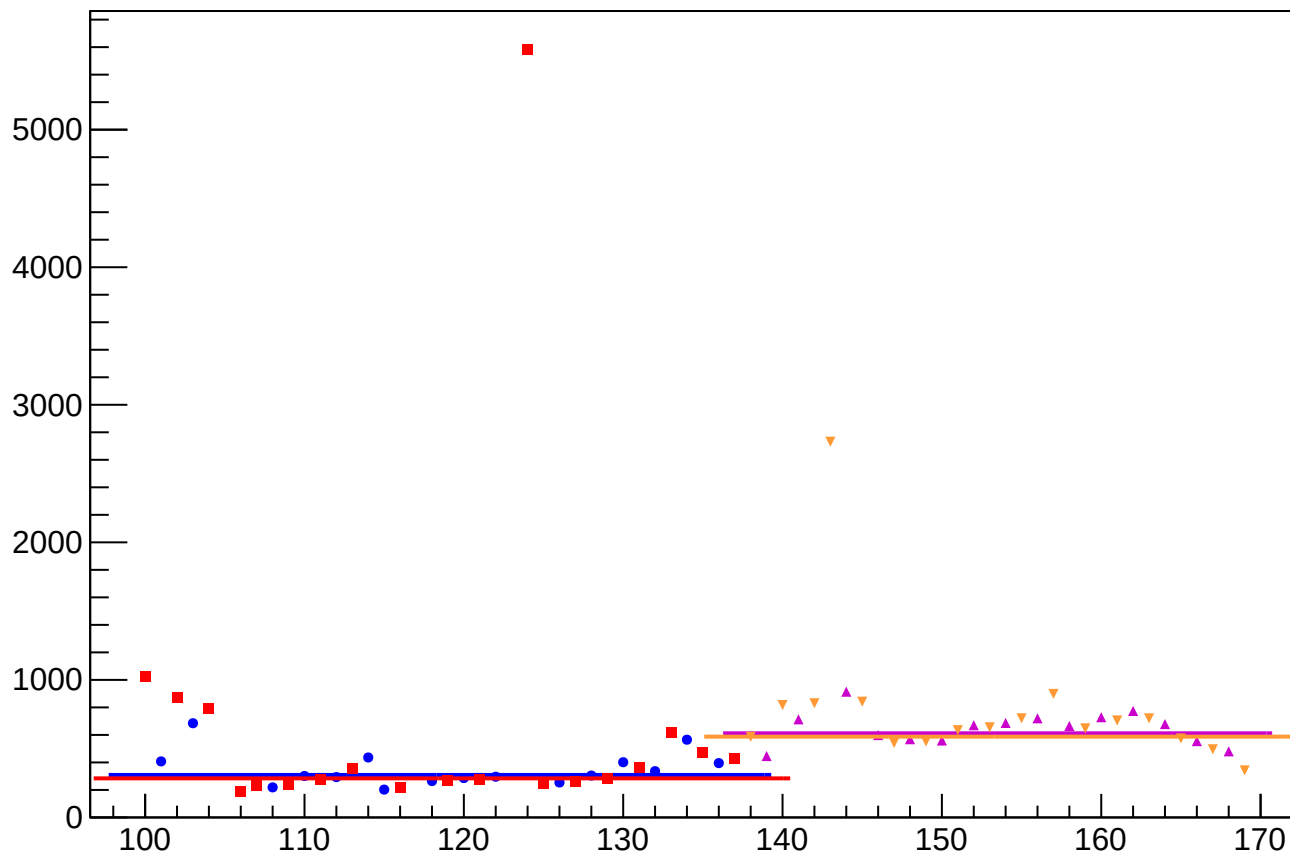
Right: 0.028 ± 0.084 χ^2/NDF : 37.5/34

In: -0.095 ± 0.101 χ^2/NDF : 34.0/30

Out: 0.095 ± 0.096 χ^2/NDF : 46.8/35

All: 0.004 ± 0.070 χ^2/NDF : 82.6/66

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 309.093+/-0.086 χ^2/NDF : 1014573.4/15

Left Out: 587.512+/-0.121 χ^2/NDF : 2641801.0/16

Right Out: 284.188+/-0.083 χ^2/NDF : 1856434.1/18

Left In: 611.746+/-0.127 χ^2/NDF : 809702.6/14

Left: 599.041+/-0.087 χ^2/NDF : 3470723.0/31

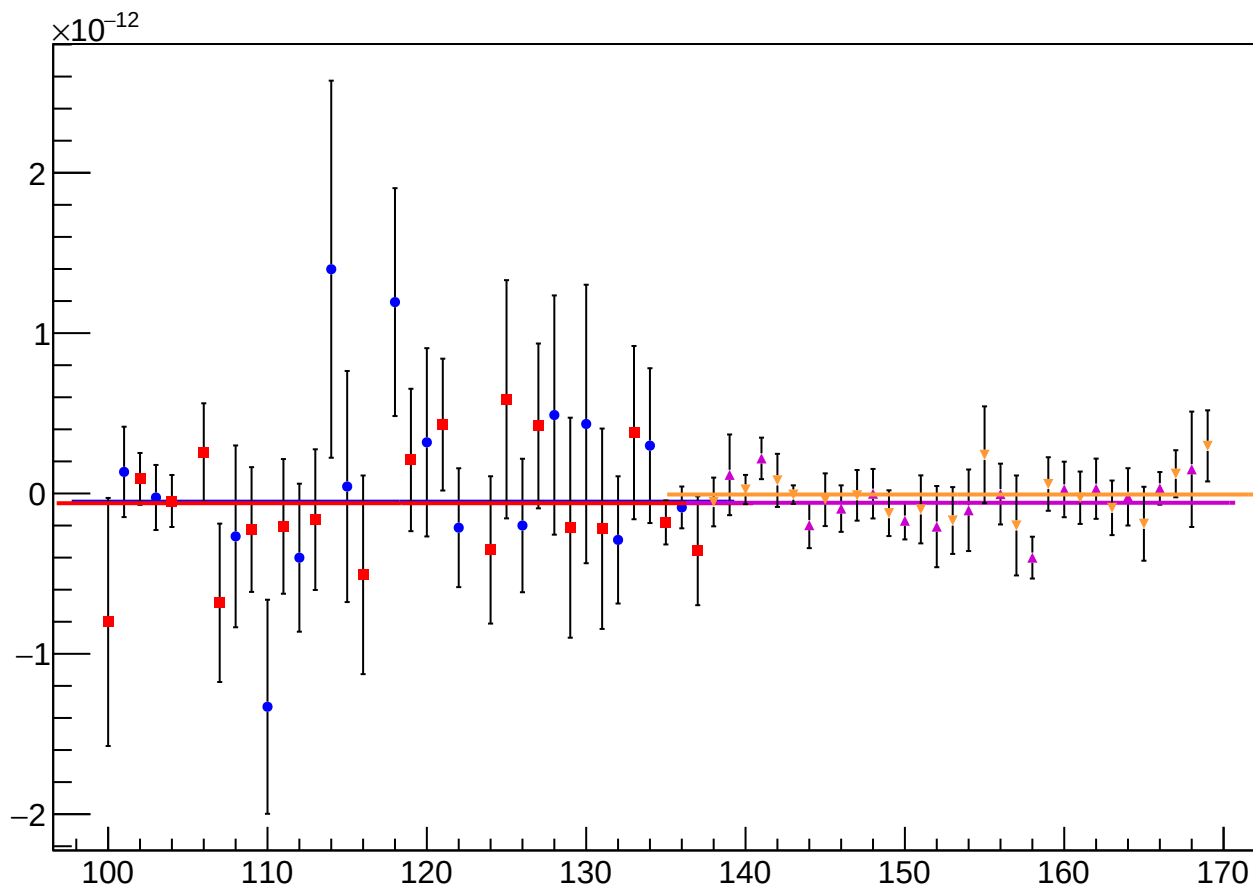
Right: 296.124+/-0.060 χ^2/NDF : 2914502.7/34

In: 404.947+/-0.071 χ^2/NDF : 5731108.9/30

Out: 381.186+/-0.068 χ^2/NDF : 8803446.5/35

All: 392.547+/-0.049 χ^2/NDF : 14592624.9/66

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 12.0/15

Left Out: -0.000+/-0.000 χ^2 /NDF:6.7/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 11.4/18

Left In: -0.000+/-0.000 χ^2 /NDF:16.1/14

Left: -0.000+/-0.000 χ^2 /NDF: 23.8/31

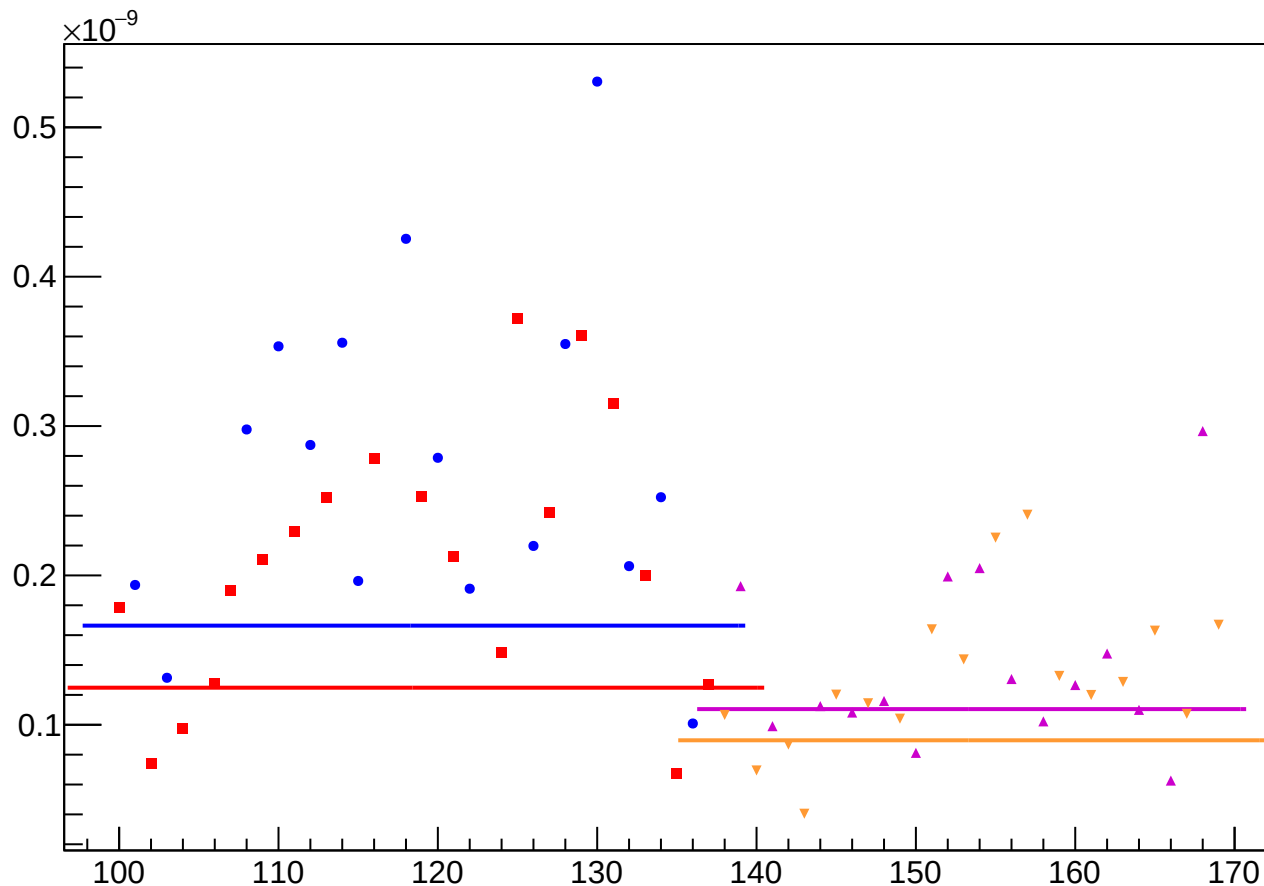
Right: -0.000+/-0.000 χ^2 /NDF: 23.4/34

In: -0.000+/-0.000 χ^2 /NDF:28.0/30

Out: -0.000+/-0.000 χ^2 /NDF:18.7/35

All: -0.000+/-0.000 χ^2 /NDF: 47.4/66

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1984237.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3753728.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2209554.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 1985344.6/14

Left: 0.000+/-0.000 χ^2/NDF : 6051993.0/31

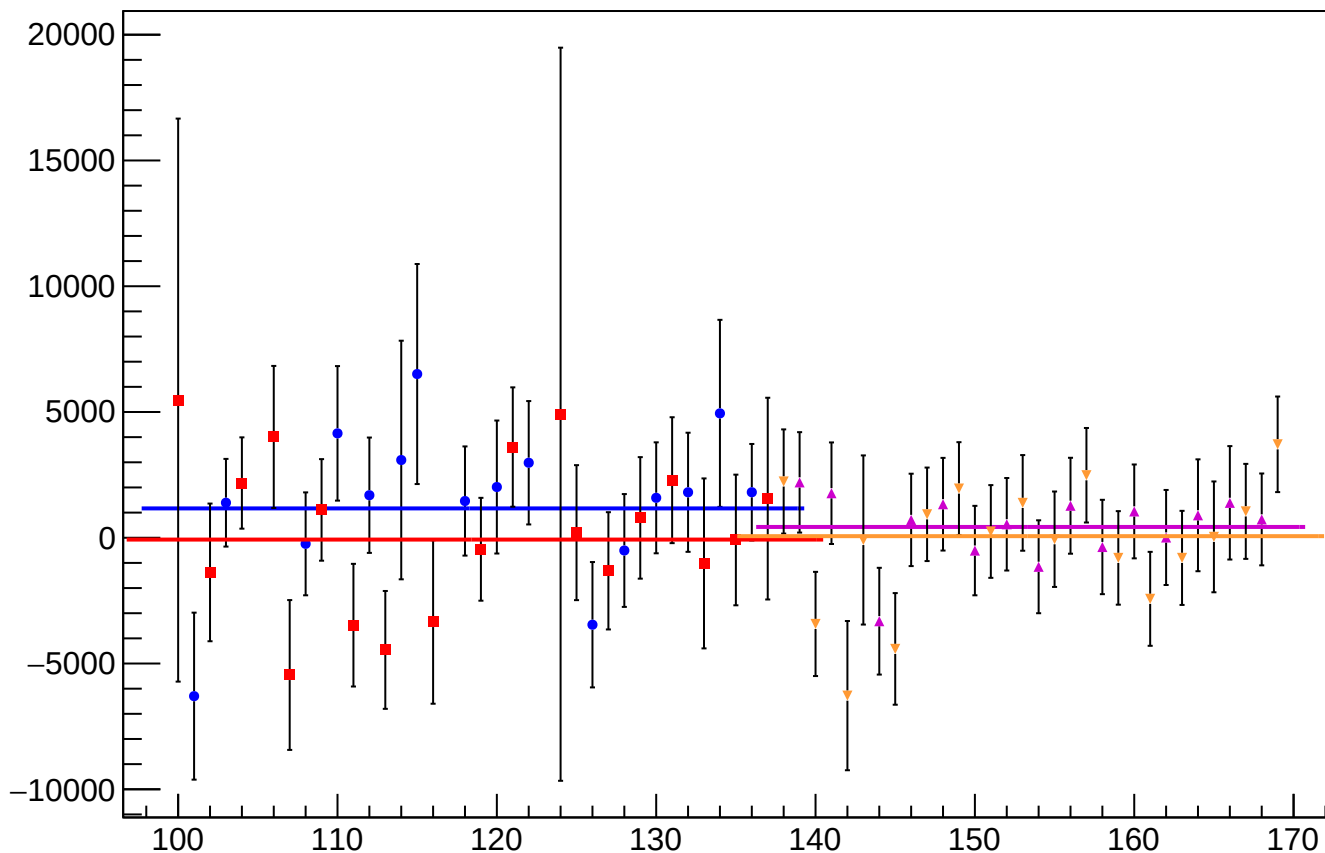
Right: 0.000+/-0.000 χ^2/NDF : 4480530.9/34

In: 0.000+/-0.000 χ^2/NDF : 4679667.6/30

Out: 0.000+/-0.000 χ^2/NDF : 6374601.8/35

All: 0.000+/-0.000 χ^2/NDF : 11600154.7/66

reg_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1166.862 $\pm$ 609.171 χ^2 /NDF: 14.4/15

Left Out: 63.540 $\pm$ 487.265 χ^2 /NDF:22.2/16

Right Out: -72.181 $\pm$ 603.362 χ^2 /NDF: 18.3/18

Left In: 429.755 $\pm$ 497.527 χ^2 /NDF:6.4/14

Left: 242.832 $\pm$ 348.120 χ^2 /NDF: 28.9/31

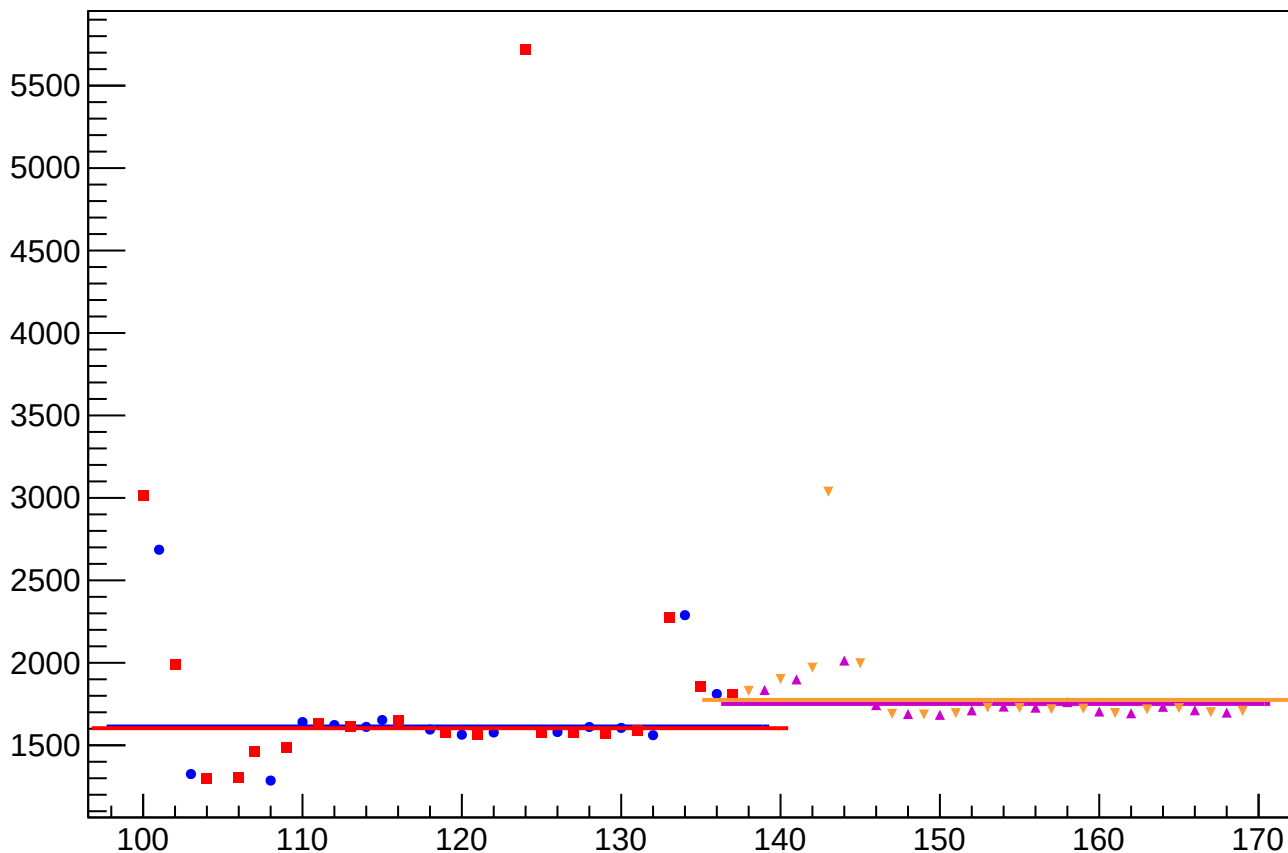
Right: 541.404 $\pm$ 428.680 χ^2 /NDF: 34.8/34

In: 724.698 $\pm$ 385.339 χ^2 /NDF:21.7/30

Out: 9.965 $\pm$ 379.084 χ^2 /NDF:40.5/35

All: 361.483 $\pm$ 270.237 χ^2 /NDF: 64.0/66

reg_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1613.674+/-0.431 χ^2/NDF : 404688.5/15

Left Out: 1775.011+/-0.345 χ^2/NDF : 350518.6/16

Right Out: 1603.464+/-0.427 χ^2/NDF : 425793.5/18

Left In: 1750.760+/-0.352 χ^2/NDF : 56954.6/14

Left: 1763.138+/-0.246 χ^2/NDF : 409898.6/31

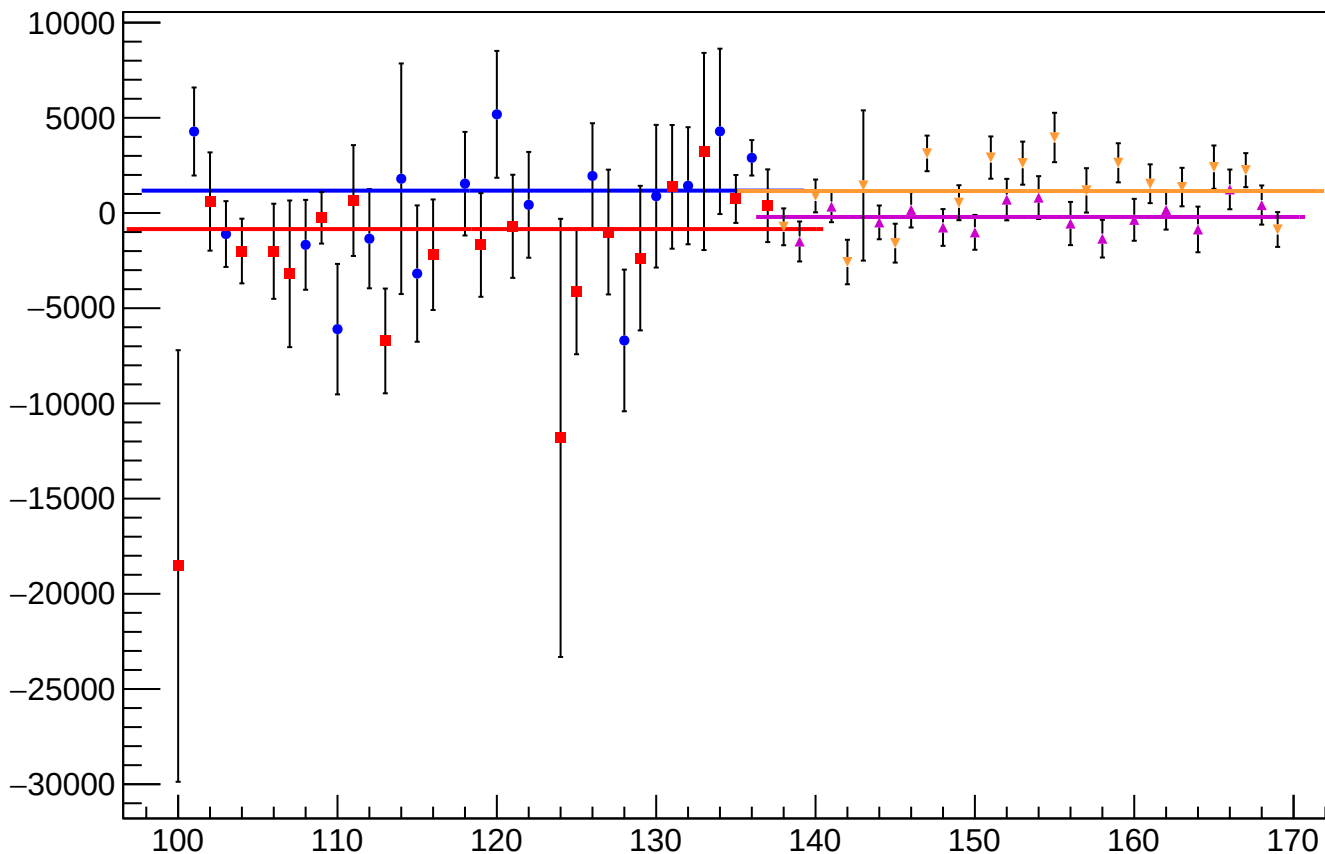
Right: 1608.520+/-0.303 χ^2/NDF : 830765.6/34

In: 1695.907+/-0.272 χ^2/NDF : 522399.8/30

Out: 1707.294+/-0.268 χ^2/NDF : 874166.7/35

All: 1701.694+/-0.191 χ^2/NDF : 1397454.0/66

asym_at2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1175.479 $\pm$ 579.062 χ^2/NDF : 22.0/15

Left Out: 1154.982 $\pm$ 253.706 χ^2/NDF : 44.9/16

Right Out: -843.857 $\pm$ 557.438 χ^2/NDF : 14.3/18

Left In: -208.050 $\pm$ 259.636 χ^2/NDF : 9.0/14

Left: 489.209 $\pm$ 181.458 χ^2/NDF : 68.0/31

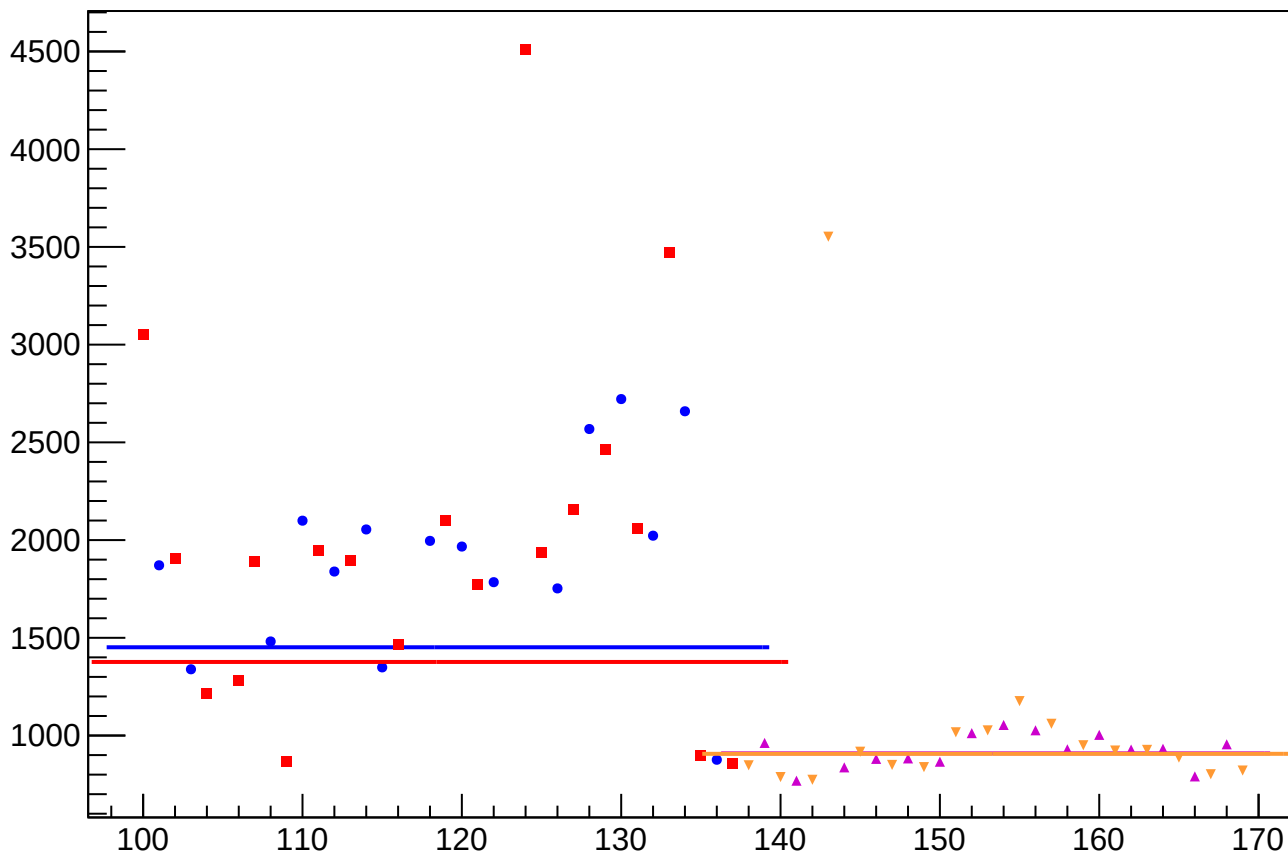
Right: 127.404 $\pm$ 401.596 χ^2/NDF : 42.6/34

In: 23.535 $\pm$ 236.912 χ^2/NDF : 35.7/30

Out: 811.987 $\pm$ 230.915 χ^2/NDF : 69.8/35

All: 427.866 $\pm$ 165.361 χ^2/NDF : 111.2/66

asym_at2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1451.631 $\pm$ 0.409 χ^2 /NDF: 1790839.5/15

Left Out: 906.471 $\pm$ 0.179 χ^2 /NDF: 1203222.2/16

Right Out: 1376.470 $\pm$ 0.394 χ^2 /NDF: 2132051.1/18

Left In: 908.931 $\pm$ 0.184 χ^2 /NDF: 203750.8/14

Left: 907.672 $\pm$ 0.128 χ^2 /NDF: 1407064.8/31

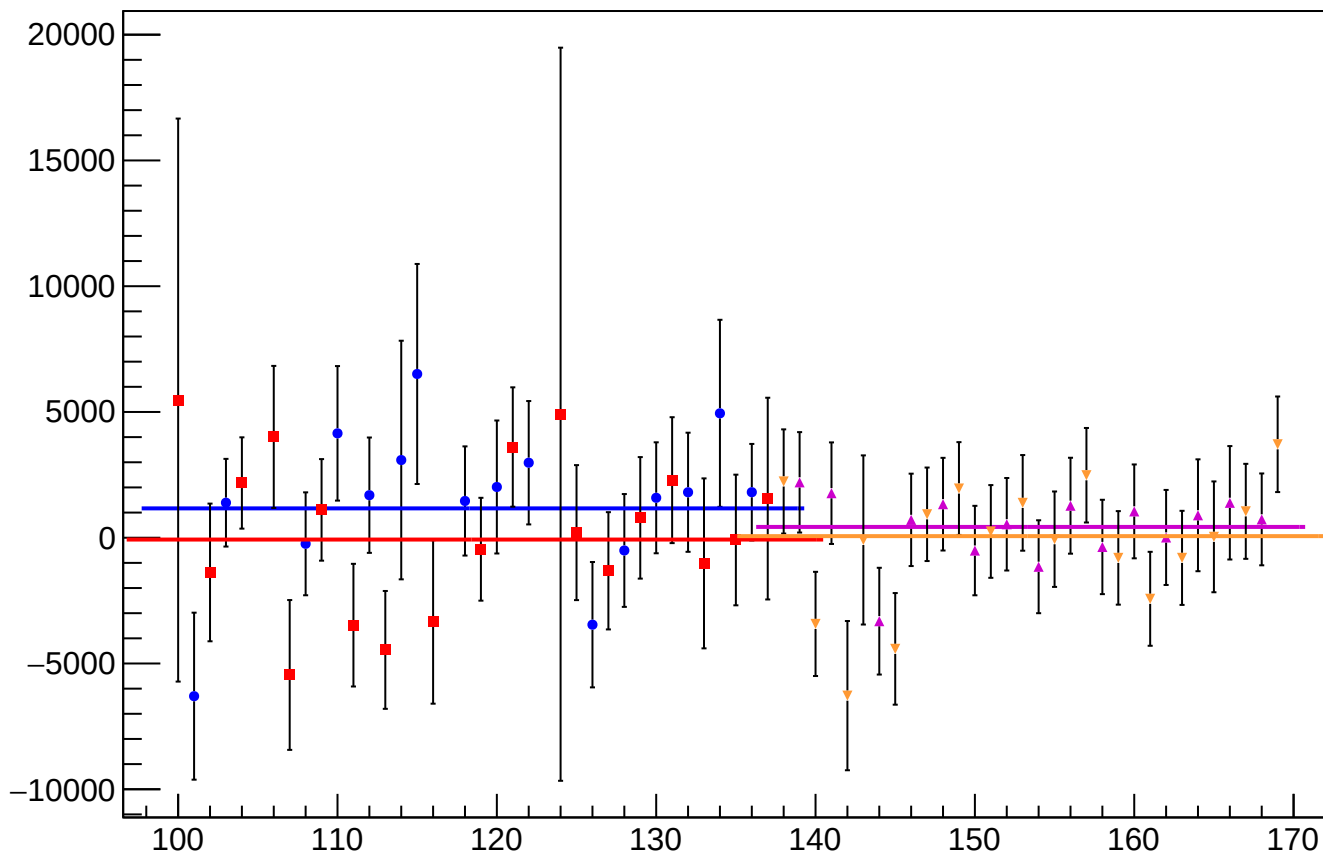
Right: 1412.621 $\pm$ 0.284 χ^2 /NDF: 3940379.2/34

In: 999.772 $\pm$ 0.168 χ^2 /NDF: 3457245.8/30

Out: 987.121 $\pm$ 0.163 χ^2 /NDF: 4513074.5/35

All: 993.285 $\pm$ 0.117 χ^2 /NDF: 7973245.0/66

cor_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1166.769 $\pm$ 609.171 χ^2/NDF : 14.4/15

Left Out: 63.398 $\pm$ 487.265 χ^2/NDF : 22.2/16

Right Out: -72.499 $\pm$ 603.362 χ^2/NDF : 18.3/18

Left In: 429.688 $\pm$ 497.527 χ^2/NDF : 6.4/14

Left: 242.727 $\pm$ 348.120 χ^2/NDF : 28.9/31

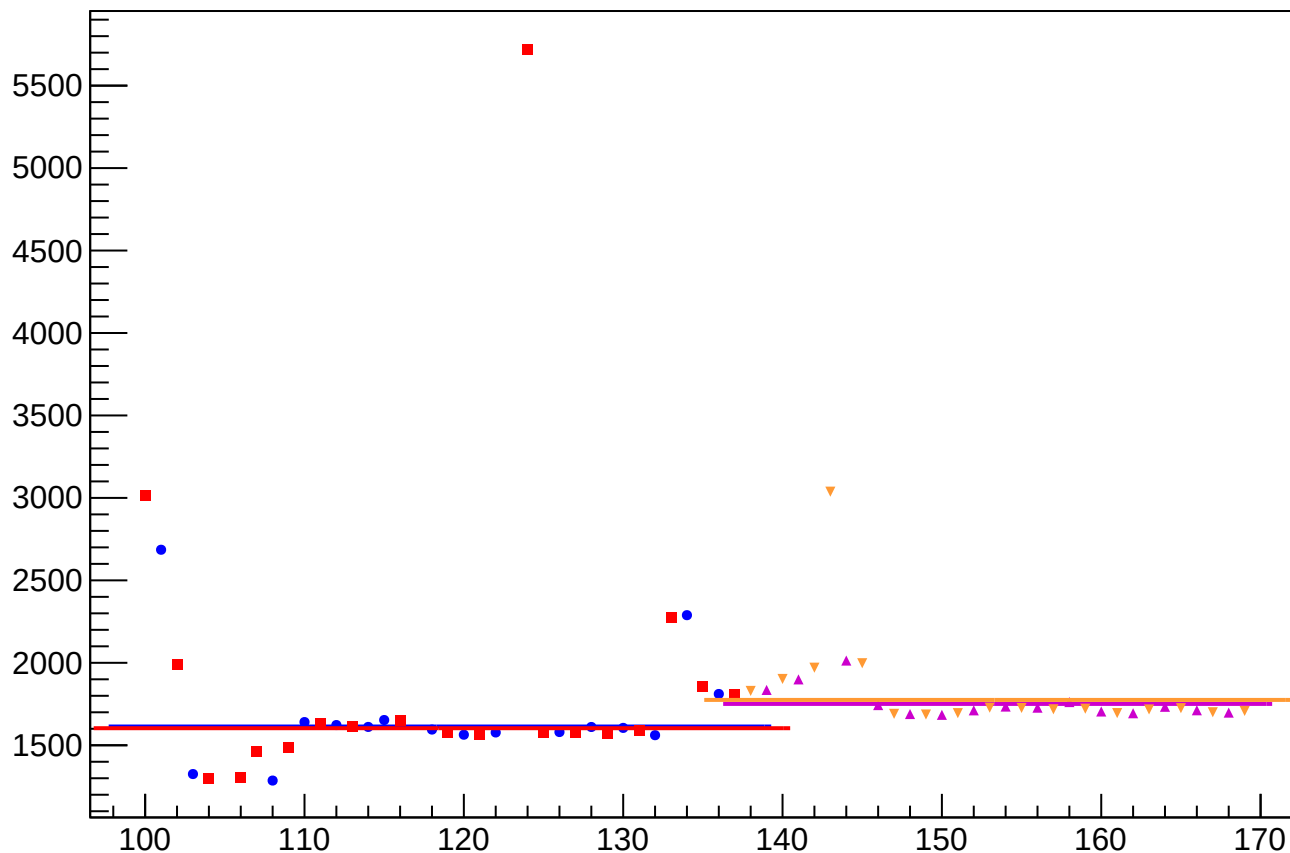
Right: 541.197 $\pm$ 428.680 χ^2/NDF : 34.8/34

In: 724.620 $\pm$ 385.339 χ^2/NDF : 21.7/30

Out: 9.754 $\pm$ 379.084 χ^2/NDF : 40.5/35

All: 361.337 $\pm$ 270.237 χ^2/NDF : 64.0/66

cor_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1613.674 ± 0.431 $\chi^2/\text{NDF}: 404688.8/15$

Left Out: 1775.011 ± 0.345 $\chi^2/\text{NDF}: 350518.6/16$

Right Out: 1603.464 ± 0.427 $\chi^2/\text{NDF}: 425793.4/18$

Left In: 1750.760 ± 0.352 $\chi^2/\text{NDF}: 56954.6/14$

Left: 1763.138 ± 0.246 $\chi^2/\text{NDF}: 409898.5/31$

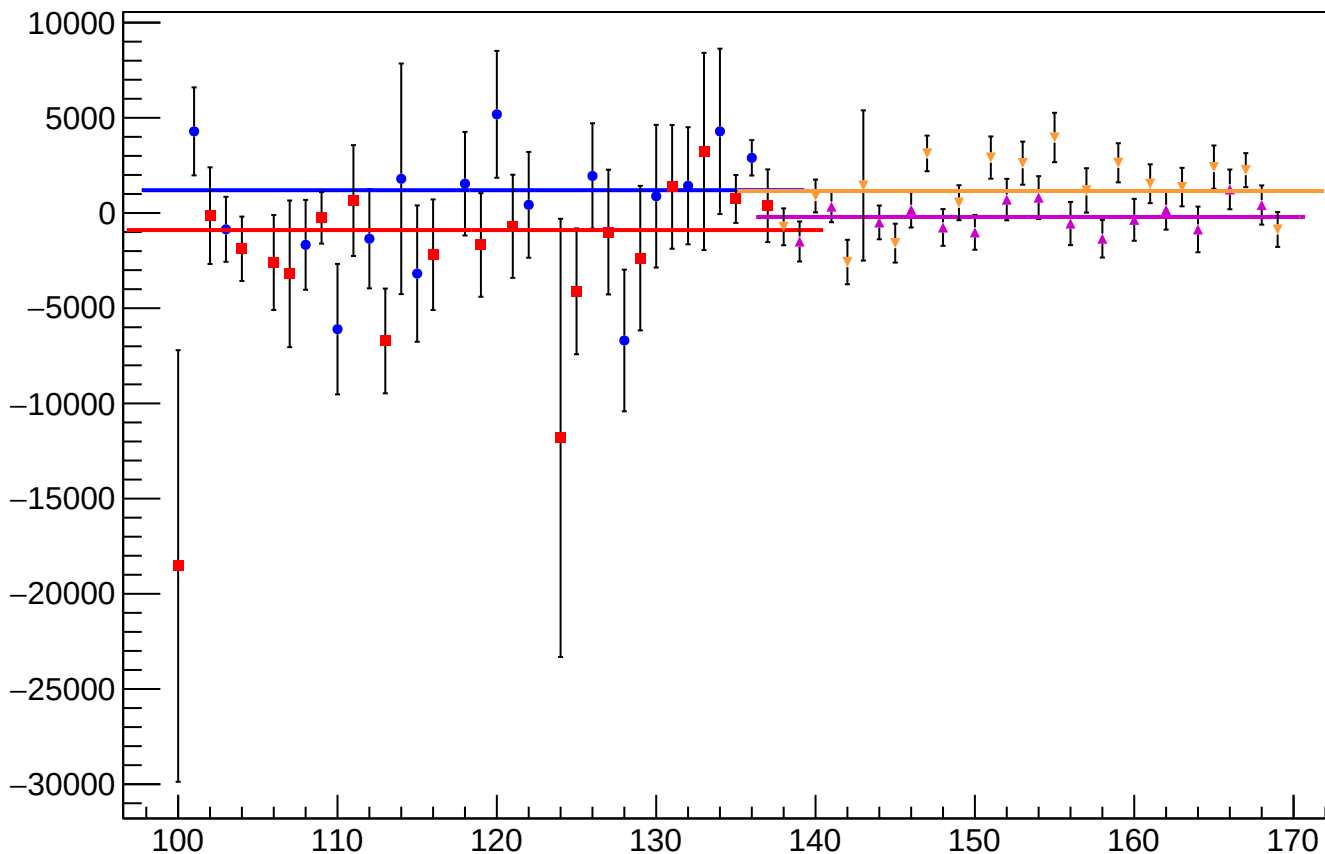
Right: 1608.520 ± 0.303 $\chi^2/\text{NDF}: 830765.8/34$

In: 1695.907 ± 0.272 $\chi^2/\text{NDF}: 522400.2/30$

Out: 1707.294 ± 0.268 $\chi^2/\text{NDF}: 874166.9/35$

All: 1701.694 ± 0.191 $\chi^2/\text{NDF}: 1397454.5/66$

asym_at2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 1198.338 $\pm$ 578.240 χ^2 /NDF: 21.7/15

Left Out: 1155.021 $\pm$ 253.709 χ^2 /NDF:44.9/16

Right Out: -895.463 $\pm$ 556.666 χ^2 /NDF: 14.2/18

Left In: -207.942 $\pm$ 259.636 χ^2 /NDF:9.0/14

Left: 489.273 $\pm$ 181.459 χ^2 /NDF: 68.0/31

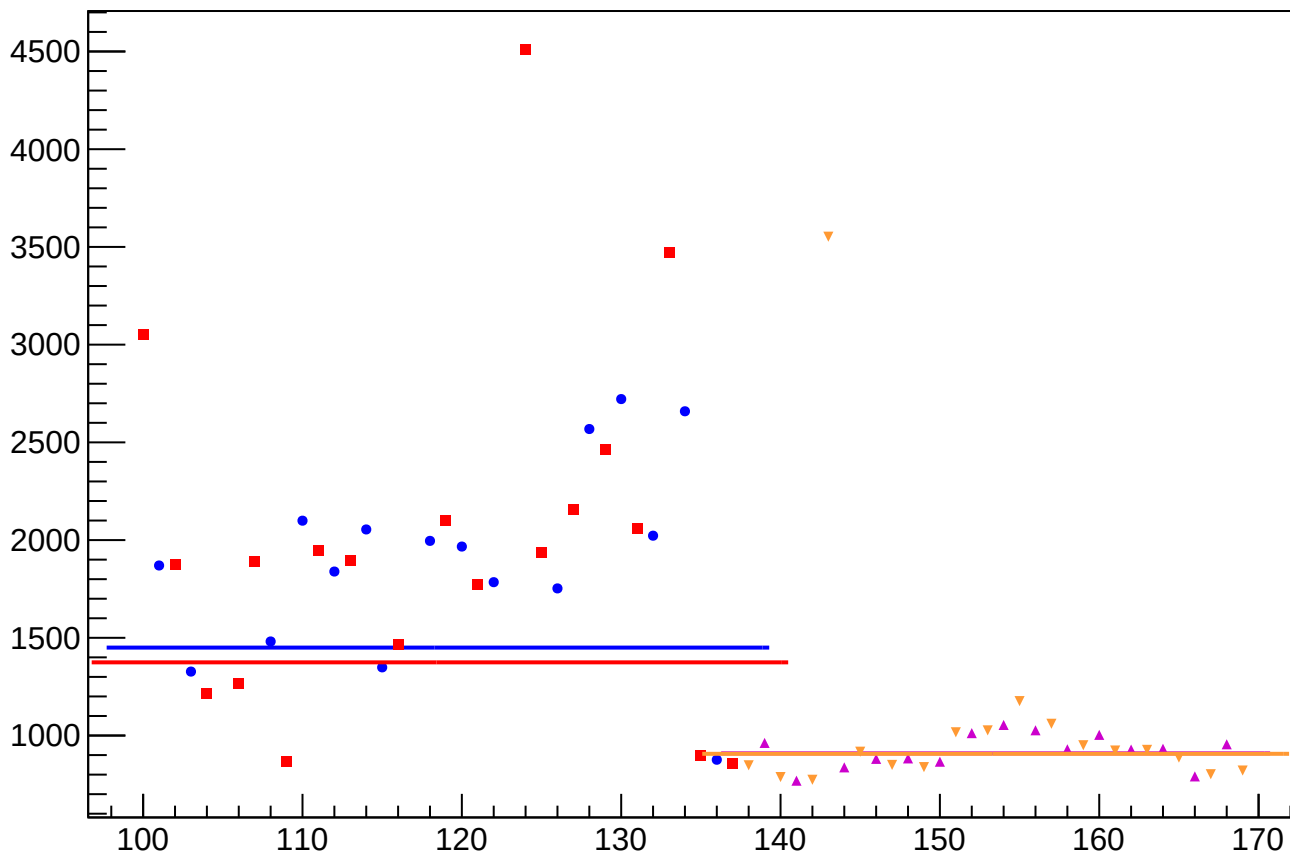
Right: 111.650 $\pm$ 401.033 χ^2 /NDF: 42.7/34

In: 28.009 $\pm$ 236.855 χ^2 /NDF:35.6/30

Out: 802.348 $\pm$ 230.862 χ^2 /NDF:70.3/35

All: 425.098 $\pm$ 165.322 χ^2 /NDF: 111.4/66

asym_at2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1449.939 $\pm$ 0.409 χ^2 /NDF: 1792673.2/15

Left Out: 906.484 $\pm$ 0.179 χ^2 /NDF: 1203122.9/16

Right Out: 1374.438 $\pm$ 0.394 χ^2 /NDF: 2127695.6/18

Left In: 908.929 $\pm$ 0.184 χ^2 /NDF: 203801.5/14

Left: 907.678 $\pm$ 0.128 χ^2 /NDF: 1407015.2/31

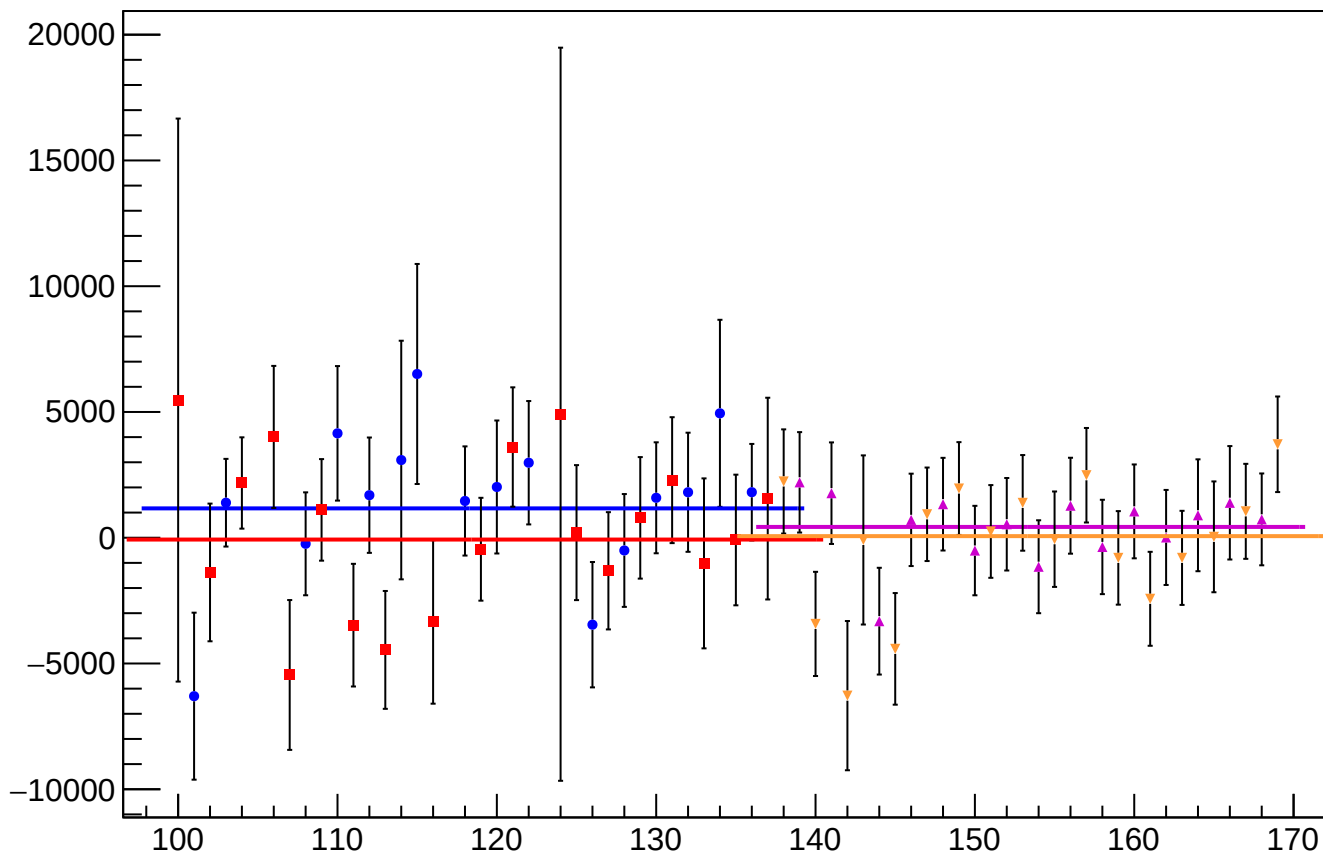
Right: 1410.753 $\pm$ 0.284 χ^2 /NDF: 3938065.4/34

In: 999.702 $\pm$ 0.167 χ^2 /NDF: 3453472.1/30

Out: 986.970 $\pm$ 0.163 χ^2 /NDF: 4501069.6/35

All: 993.173 $\pm$ 0.117 χ^2 /NDF: 7957505.4/66

eigen_cor_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1166.769 $\pm$ 609.171 χ^2 /NDF: 14.4/15

Left Out: 63.398 $\pm$ 487.265 χ^2 /NDF:22.2/16

Right Out: -72.499 $\pm$ 603.362 χ^2 /NDF: 18.3/18

Left In: 429.688 $\pm$ 497.527 χ^2 /NDF:6.4/14

Left: 242.727 $\pm$ 348.120 χ^2 /NDF: 28.9/31

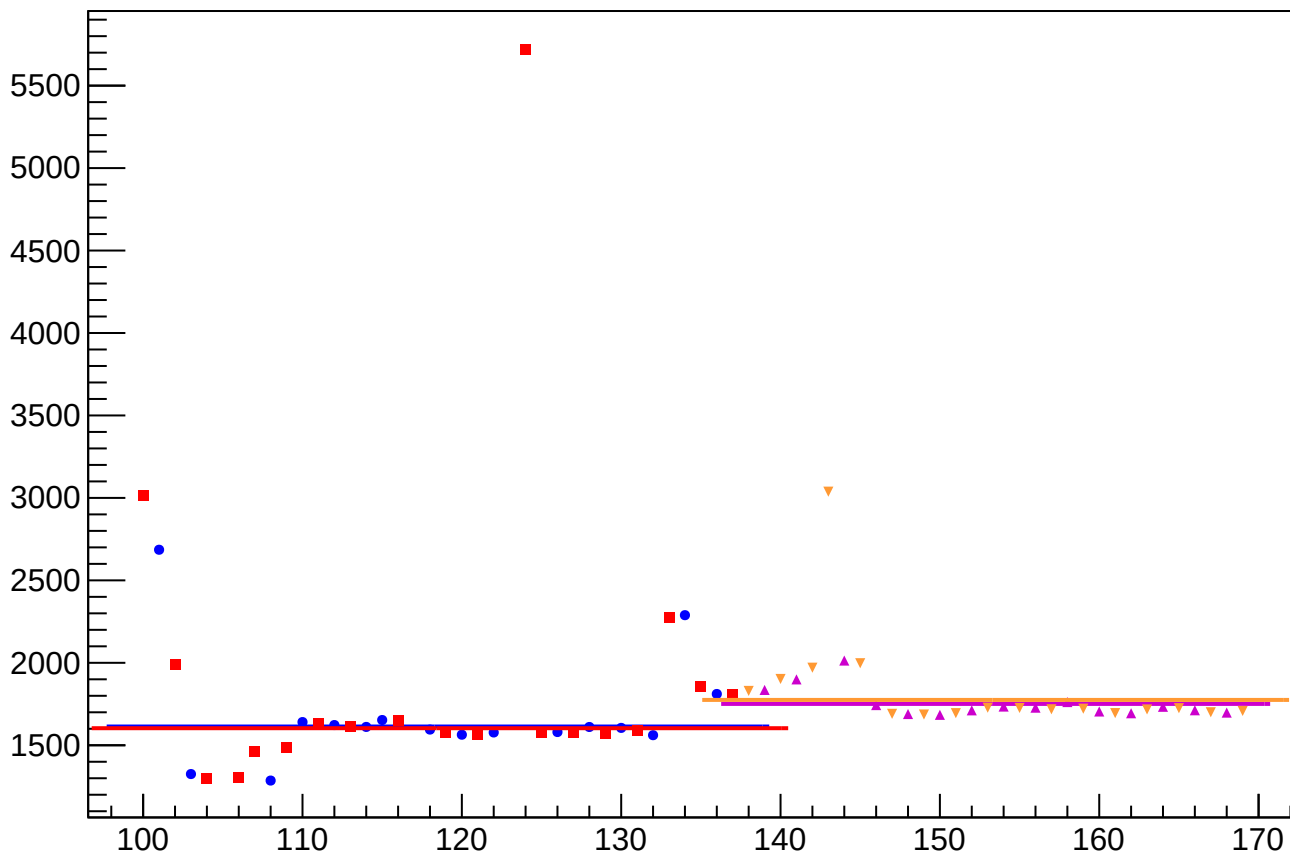
Right: 541.197 $\pm$ 428.680 χ^2 /NDF: 34.8/34

In: 724.620 $\pm$ 385.339 χ^2 /NDF:21.7/30

Out: 9.754 $\pm$ 379.084 χ^2 /NDF:40.5/35

All: 361.337 $\pm$ 270.237 χ^2 /NDF: 64.0/66

eigen_cor_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1613.674 $\pm$ 0.431 χ^2 /NDF: 404688.8/15

Left Out: 1775.011 $\pm$ 0.345 χ^2 /NDF: 350518.6/16

Right Out: 1603.464 $\pm$ 0.427 χ^2 /NDF: 425793.4/18

Left In: 1750.760 $\pm$ 0.352 χ^2 /NDF: 56954.6/14

Left: 1763.138 $\pm$ 0.246 χ^2 /NDF: 409898.5/31

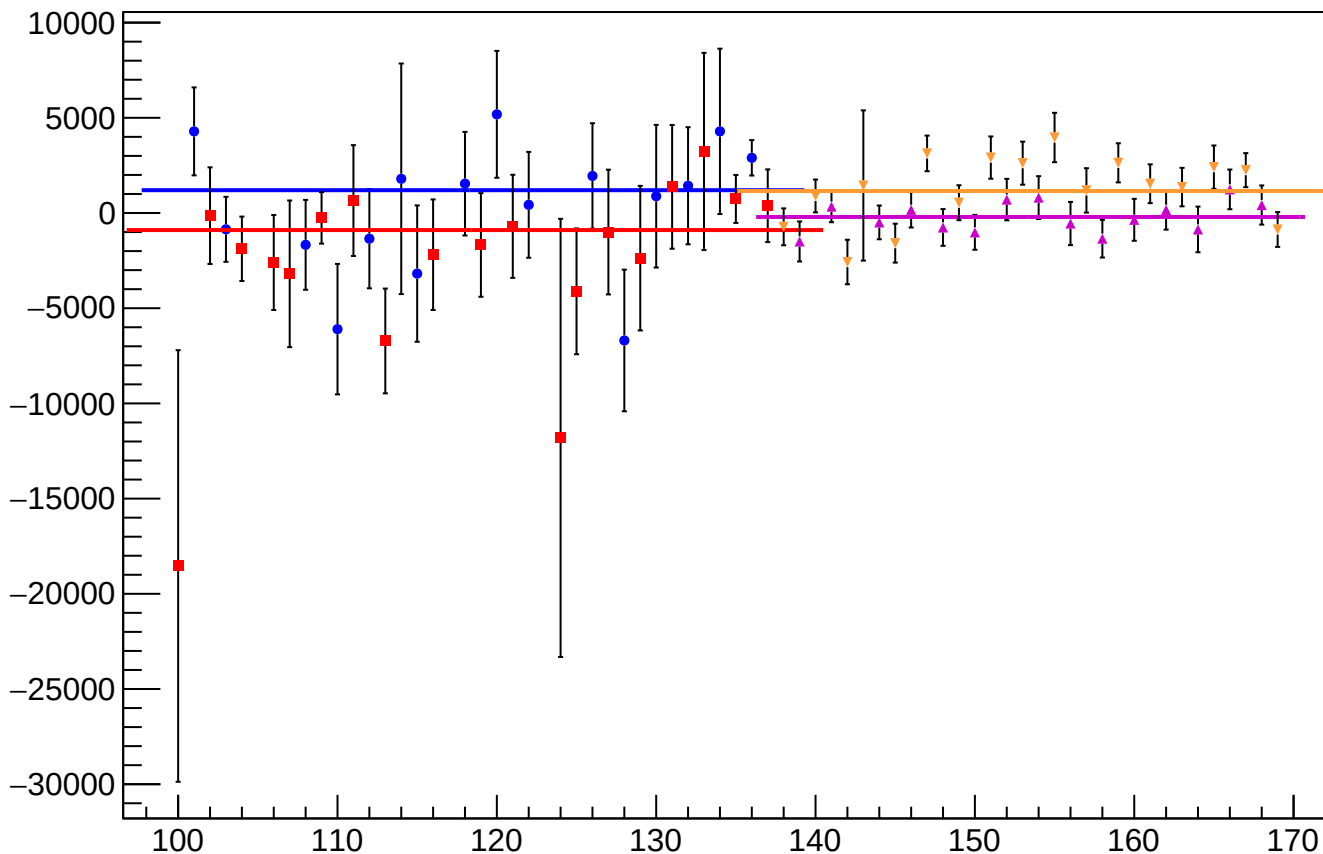
Right: 1608.520 $\pm$ 0.303 χ^2 /NDF: 830765.8/34

In: 1695.907 $\pm$ 0.272 χ^2 /NDF: 522400.2/30

Out: 1707.294 $\pm$ 0.268 χ^2 /NDF: 874166.9/35

All: 1701.694 $\pm$ 0.191 χ^2 /NDF: 1397454.5/66

asym_at2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 1198.338 $\pm$ 578.240 χ^2 /NDF: 21.7/15

Left Out: 1155.021 $\pm$ 253.709 χ^2 /NDF: 44.9/16

Right Out: -895.463 $\pm$ 556.666 χ^2 /NDF: 14.2/18

Left In: -207.942 $\pm$ 259.636 χ^2 /NDF: 9.0/14

Left: 489.273 $\pm$ 181.459 χ^2 /NDF: 68.0/31

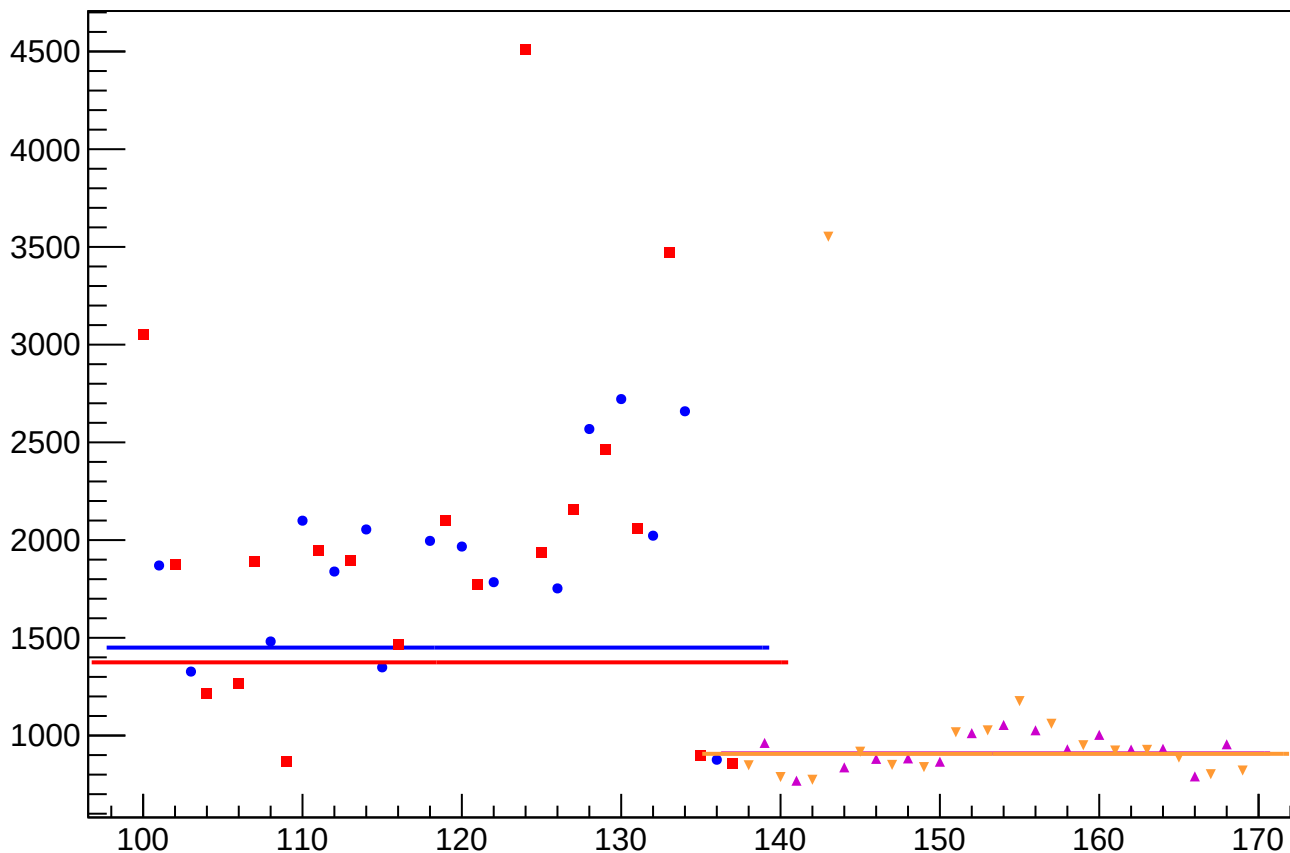
Right: 111.650 $\pm$ 401.033 χ^2 /NDF: 42.7/34

In: 28.009 $\pm$ 236.855 χ^2 /NDF: 35.6/30

Out: 802.348 $\pm$ 230.862 χ^2 /NDF: 70.3/35

All: 425.098 $\pm$ 165.322 χ^2 /NDF: 111.4/66

asym_at2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1449.939+/-0.409 χ^2/NDF : 1792673.2/15

Left Out: 906.484+/-0.179 χ^2/NDF : 1203122.9/16

Right Out: 1374.438+/-0.394 χ^2/NDF : 2127695.6/18

Left In: 908.929+/-0.184 χ^2/NDF : 203801.5/14

Left: 907.678+/-0.128 χ^2/NDF : 1407015.2/31

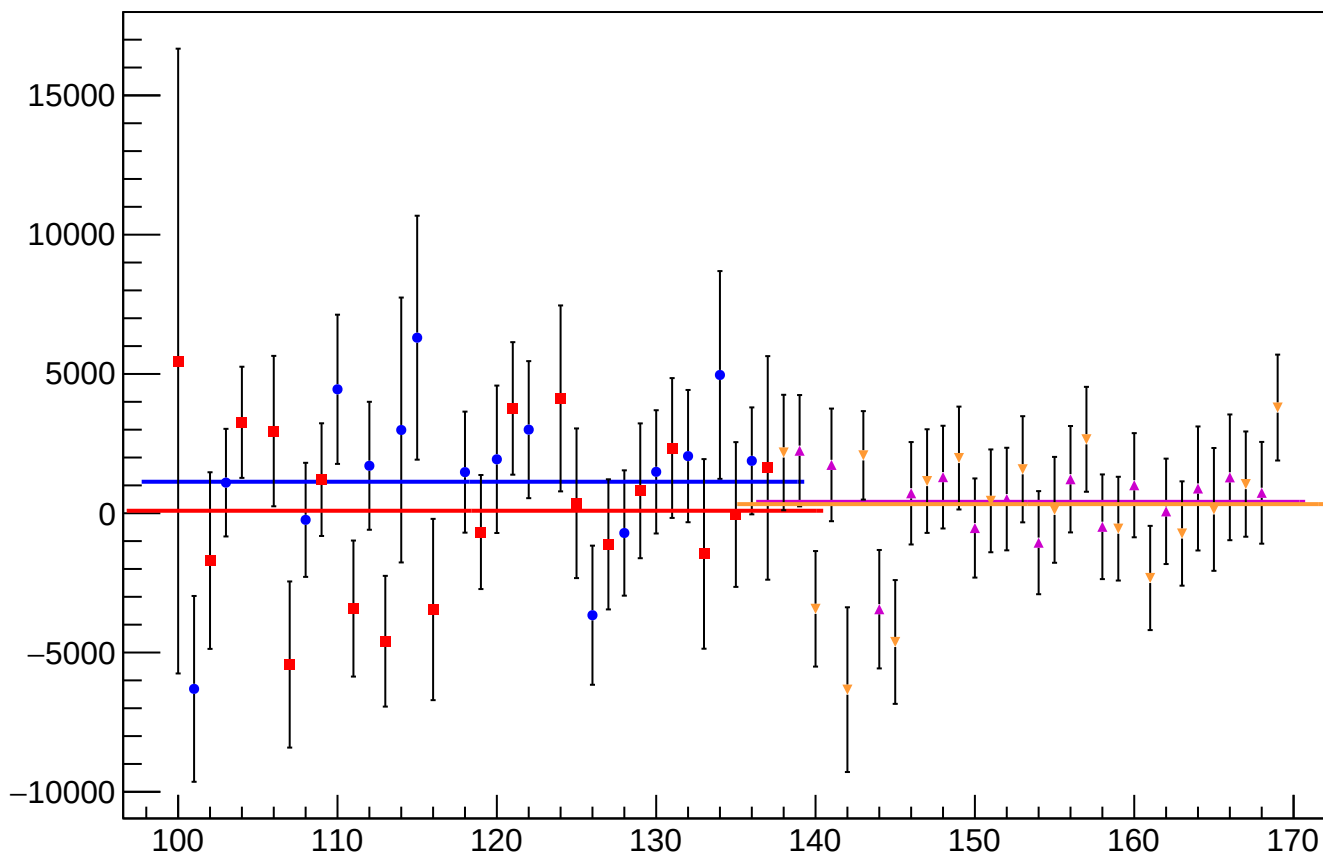
Right: 1410.753+/-0.284 χ^2/NDF : 3938065.4/34

In: 999.702+/-0.167 χ^2/NDF : 3453472.1/30

Out: 986.970+/-0.163 χ^2/NDF : 4501069.6/35

All: 993.173+/-0.117 χ^2/NDF : 7957505.4/66

dit_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1130.726 $\pm$ 617.236 χ^2 /NDF: 15.0/15

Left Out: 327.445 $\pm$ 470.824 χ^2 /NDF: 24.3/16

Right Out: 89.220 $\pm$ 603.072 χ^2 /NDF: 20.7/18

Left In: 409.466 $\pm$ 498.148 χ^2 /NDF: 6.5/14

Left: 366.144 $\pm$ 342.175 χ^2 /NDF: 30.9/31

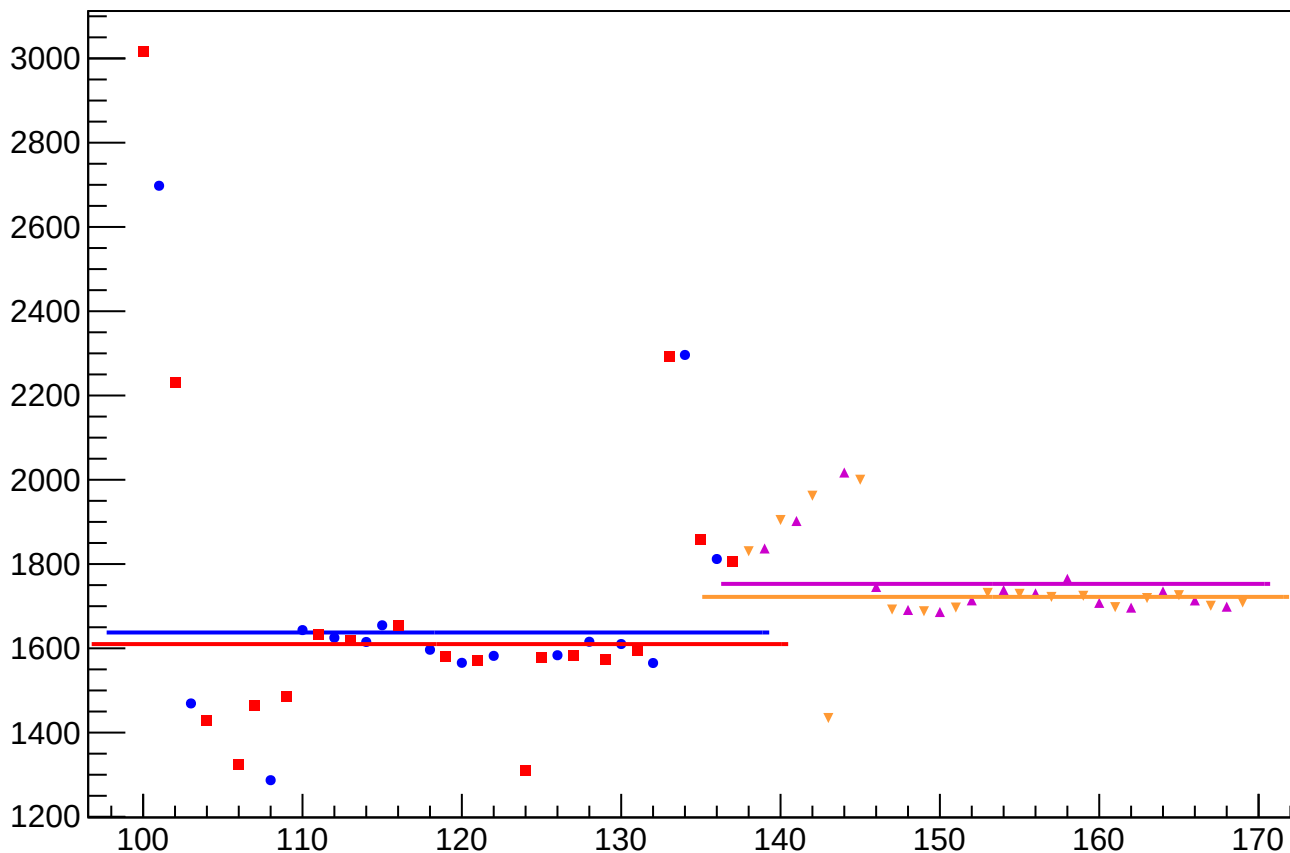
Right: 597.886 $\pm$ 431.357 χ^2 /NDF: 37.1/34

In: 693.956 $\pm$ 387.649 χ^2 /NDF: 22.3/30

Out: 237.231 $\pm$ 371.118 χ^2 /NDF: 45.1/35

All: 455.648 $\pm$ 268.074 χ^2 /NDF: 68.2/66

dit_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1637.574 $\pm$ 0.436 χ^2 /NDF: 361417.0/15

Left Out: 1722.070 $\pm$ 0.333 χ^2 /NDF:133336.8/16

Right Out: 1610.043 $\pm$ 0.426 χ^2 /NDF: 280812.5/18

Left In: 1752.928 $\pm$ 0.352 χ^2 /NDF:57246.6/14

Left: 1736.629 $\pm$ 0.242 χ^2 /NDF: 194636.8/31

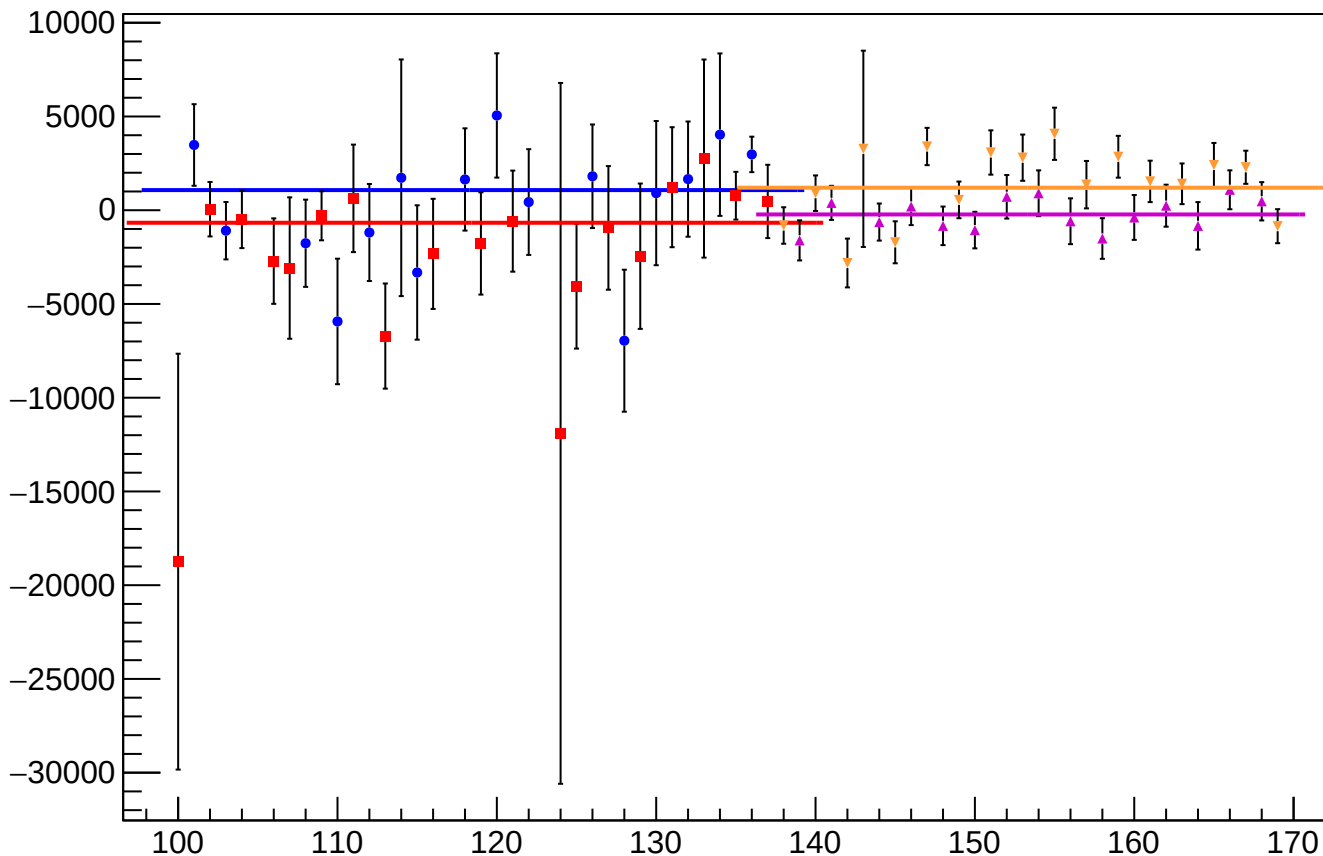
Right: 1623.489 $\pm$ 0.305 χ^2 /NDF: 644265.1/34

In: 1707.428 $\pm$ 0.274 χ^2 /NDF:460964.7/30

Out: 1679.646 $\pm$ 0.262 χ^2 /NDF:457028.3/35

All: 1692.932 $\pm$ 0.190 χ^2 /NDF: 923352.9/66

asym_at2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1073.600+/-571.609 χ^2/NDF : 22.0/15

Left Out: 1201.794+/-268.694 χ^2/NDF : 44.7/16

Right Out: -667.777+/-523.477 χ^2/NDF : 13.6/18

Left In: -225.237+/-276.724 χ^2/NDF : 9.1/14

Left: 509.282+/-192.772 χ^2/NDF : 67.4/31

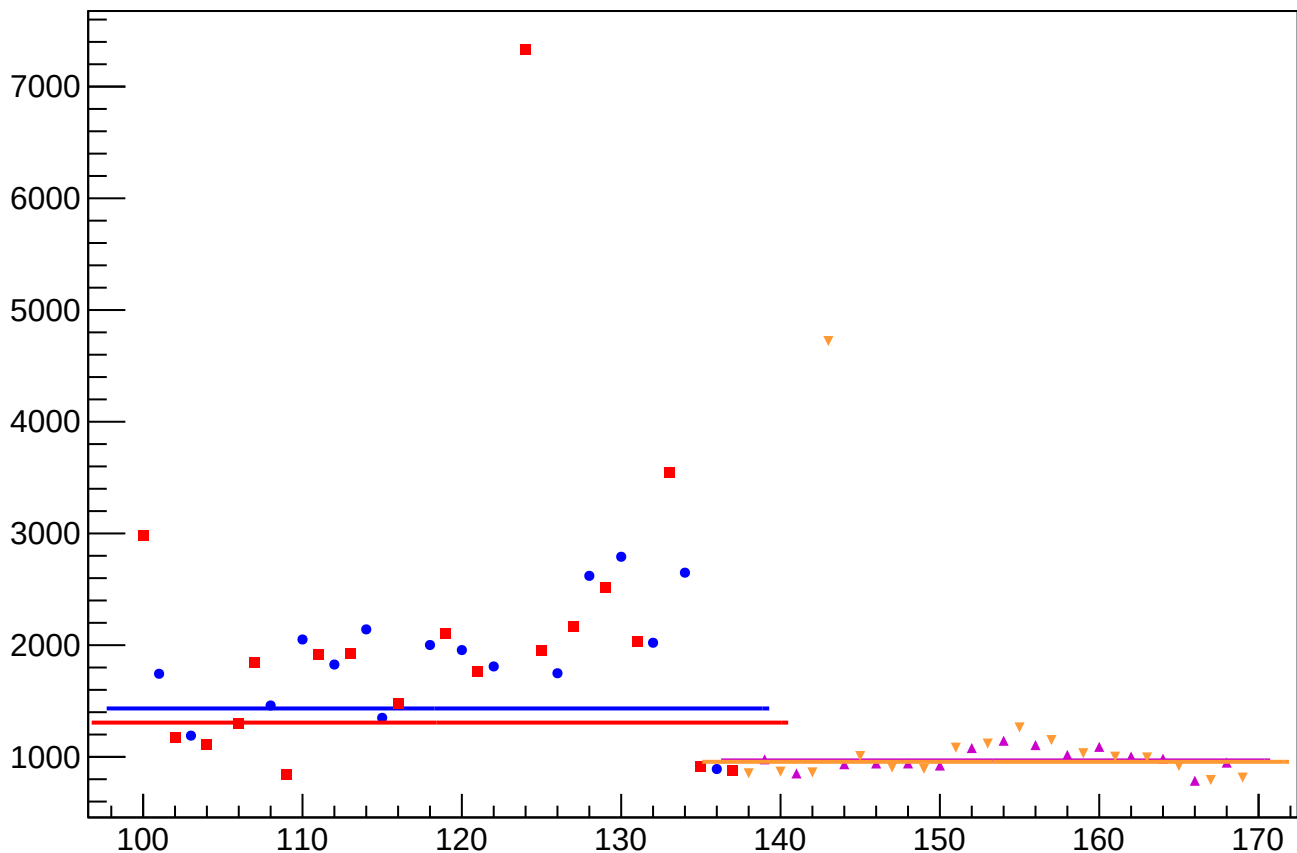
Right: 126.521+/-386.051 χ^2/NDF : 40.6/34

In: 21.370+/-249.072 χ^2/NDF : 35.3/30

Out: 811.941+/-239.044 χ^2/NDF : 68.3/35

All: 432.891+/-172.466 χ^2/NDF : 108.8/66

asym_at2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1433.477+/-0.404 χ^2/NDF : 1763491.8/15

Left Out: 955.952+/-0.190 χ^2/NDF : 1440376.2/16

Right Out: 1306.866+/-0.370 χ^2/NDF : 2183906.3/18

Left In: 968.537+/-0.196 χ^2/NDF : 216754.4/14

Left: 962.059+/-0.136 χ^2/NDF : 1659260.1/31

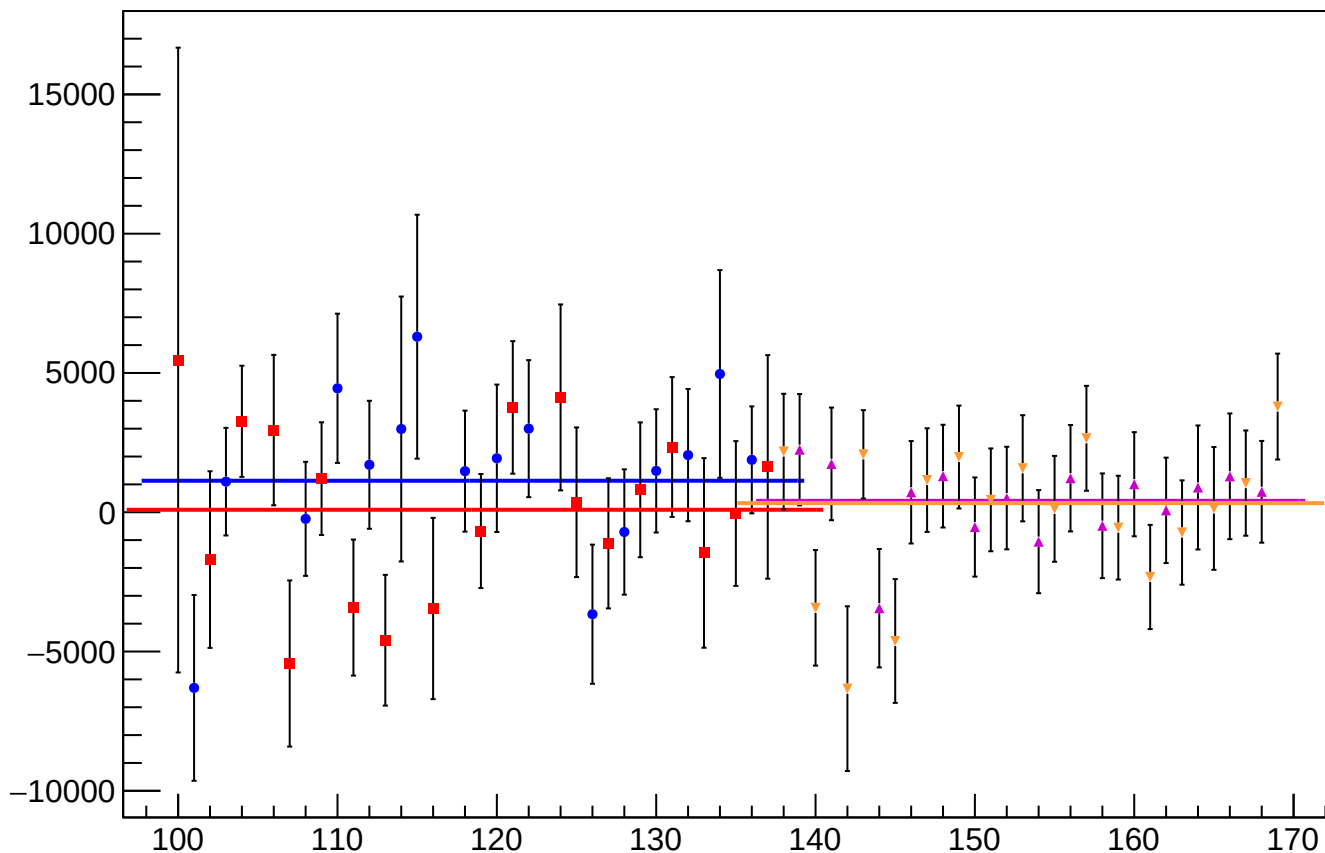
Right: 1364.618+/-0.273 χ^2/NDF : 4000764.0/34

In: 1056.814+/-0.176 χ^2/NDF : 3052212.2/30

Out: 1029.126+/-0.169 χ^2/NDF : 4335619.2/35

All: 1042.402+/-0.122 χ^2/NDF : 7400696.7/66

eigen_dit_asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 1130.728 $\pm$ 617.236 χ^2 /NDF: 15.0/15

Left Out: 327.438 $\pm$ 470.824 χ^2 /NDF:24.3/16

Right Out: 89.225 $\pm$ 603.072 χ^2 /NDF: 20.7/18

Left In: 409.468 $\pm$ 498.148 χ^2 /NDF:6.5/14

Left: 366.142 $\pm$ 342.175 χ^2 /NDF: 30.9/31

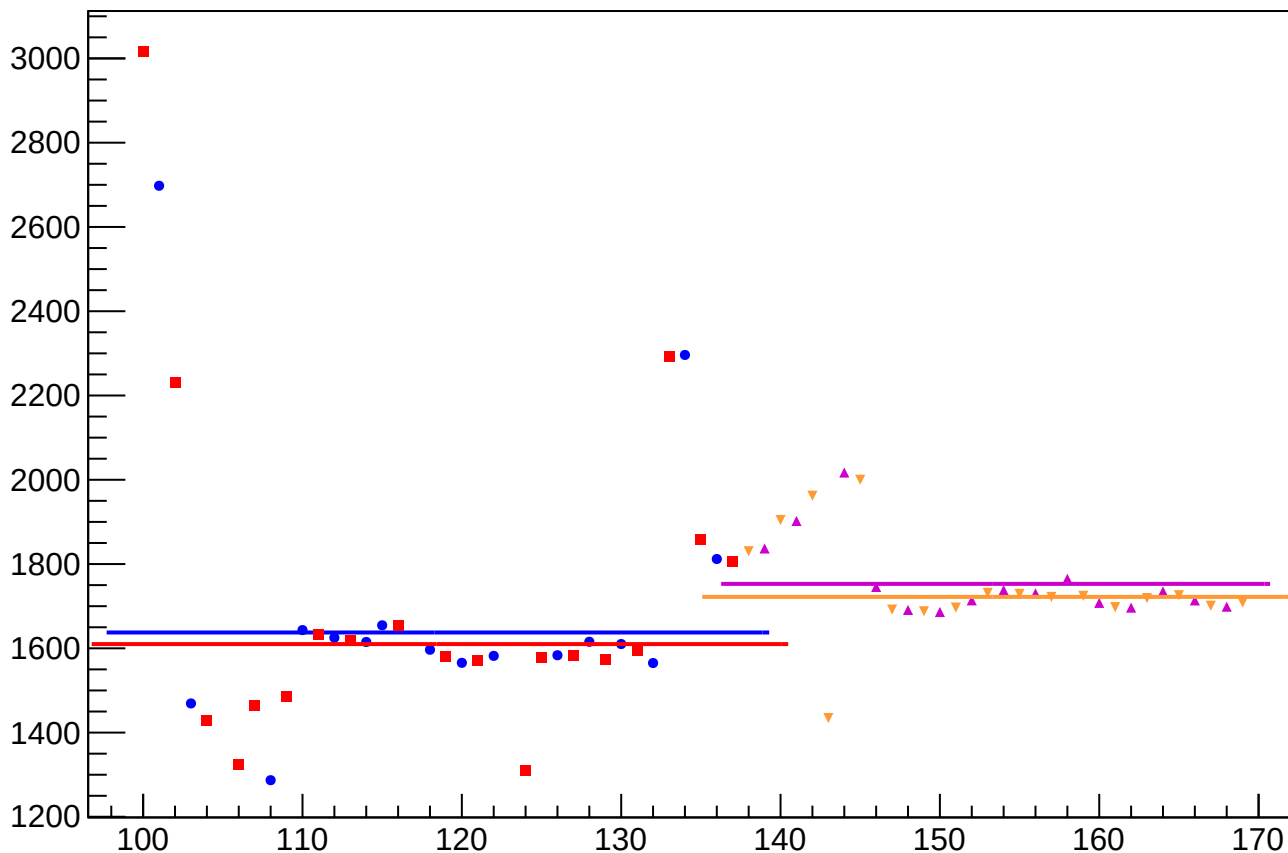
Right: 597.890 $\pm$ 431.357 χ^2 /NDF: 37.1/34

In: 693.957 $\pm$ 387.649 χ^2 /NDF:22.3/30

Out: 237.229 $\pm$ 371.118 χ^2 /NDF:45.1/35

All: 455.647 $\pm$ 268.074 χ^2 /NDF: 68.2/66

eigen_dit_asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 1637.574 ± 0.436 $\chi^2/\text{NDF}: 361416.8/15$

Left Out: 1722.070 ± 0.333 $\chi^2/\text{NDF}: 133335.8/16$

Right Out: 1610.043 ± 0.426 $\chi^2/\text{NDF}: 280812.7/18$

Left In: 1752.928 ± 0.352 $\chi^2/\text{NDF}: 57246.7/14$

Left: 1736.629 ± 0.242 $\chi^2/\text{NDF}: 194635.8/31$

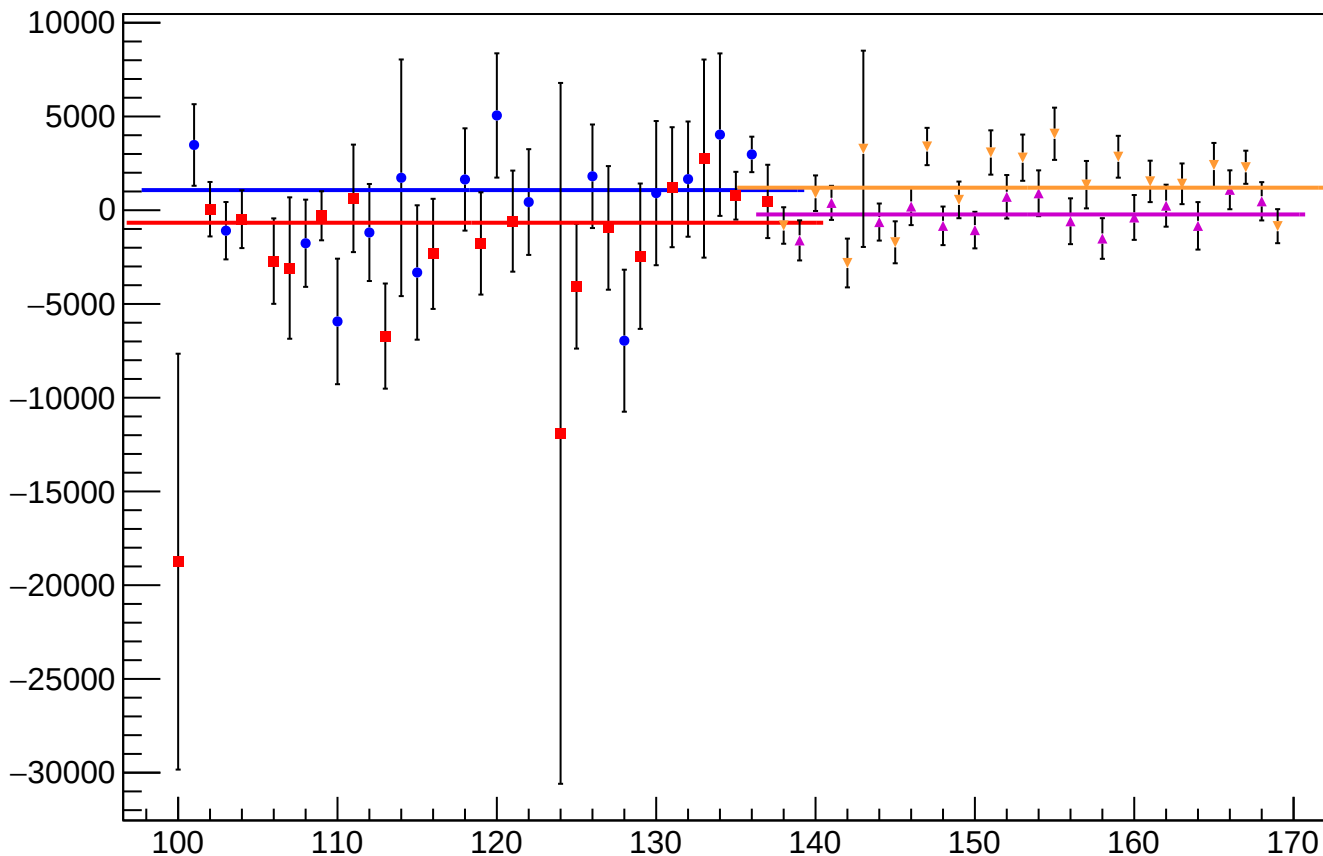
Right: 1623.489 ± 0.305 $\chi^2/\text{NDF}: 644265.1/34$

In: 1707.428 ± 0.274 $\chi^2/\text{NDF}: 460964.7/30$

Out: 1679.646 ± 0.262 $\chi^2/\text{NDF}: 457027.7/35$

All: 1692.932 ± 0.190 $\chi^2/\text{NDF}: 923352.3/66$

asym_at2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1073.589 $\pm$ 571.613 χ^2 /NDF: 22.0/15

Left Out: 1201.804 $\pm$ 268.695 χ^2 /NDF: 44.7/16

Right Out: -667.789 $\pm$ 523.481 χ^2 /NDF: 13.6/18

Left In: -225.233 $\pm$ 276.724 χ^2 /NDF: 9.1/14

Left: 509.287 $\pm$ 192.772 χ^2 /NDF: 67.4/31

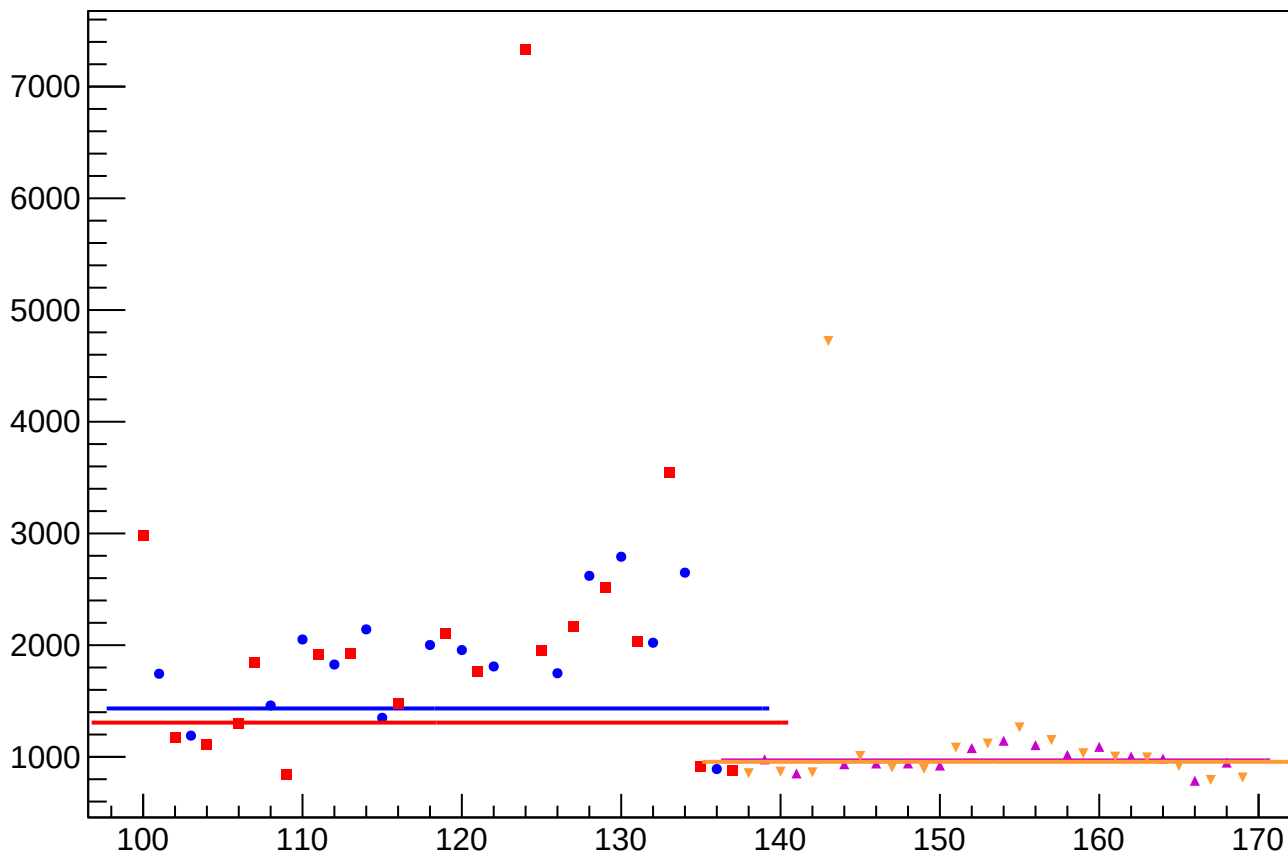
Right: 126.509 $\pm$ 386.053 χ^2 /NDF: 40.6/34

In: 21.368 $\pm$ 249.072 χ^2 /NDF: 35.3/30

Out: 811.949 $\pm$ 239.044 χ^2 /NDF: 68.3/35

All: 432.893 $\pm$ 172.466 χ^2 /NDF: 108.8/66

asym_at2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1433.492 $\pm$ 0.404 χ^2 /NDF: 1763397.4/15

Left Out: 955.953 $\pm$ 0.190 χ^2 /NDF:1440360.8/16

Right Out: 1306.880 $\pm$ 0.370 χ^2 /NDF: 2183835.0/18

Left In: 968.537 $\pm$ 0.196 χ^2 /NDF:216756.5/14

Left: 962.060 $\pm$ 0.136 χ^2 /NDF: 1659246.1/31

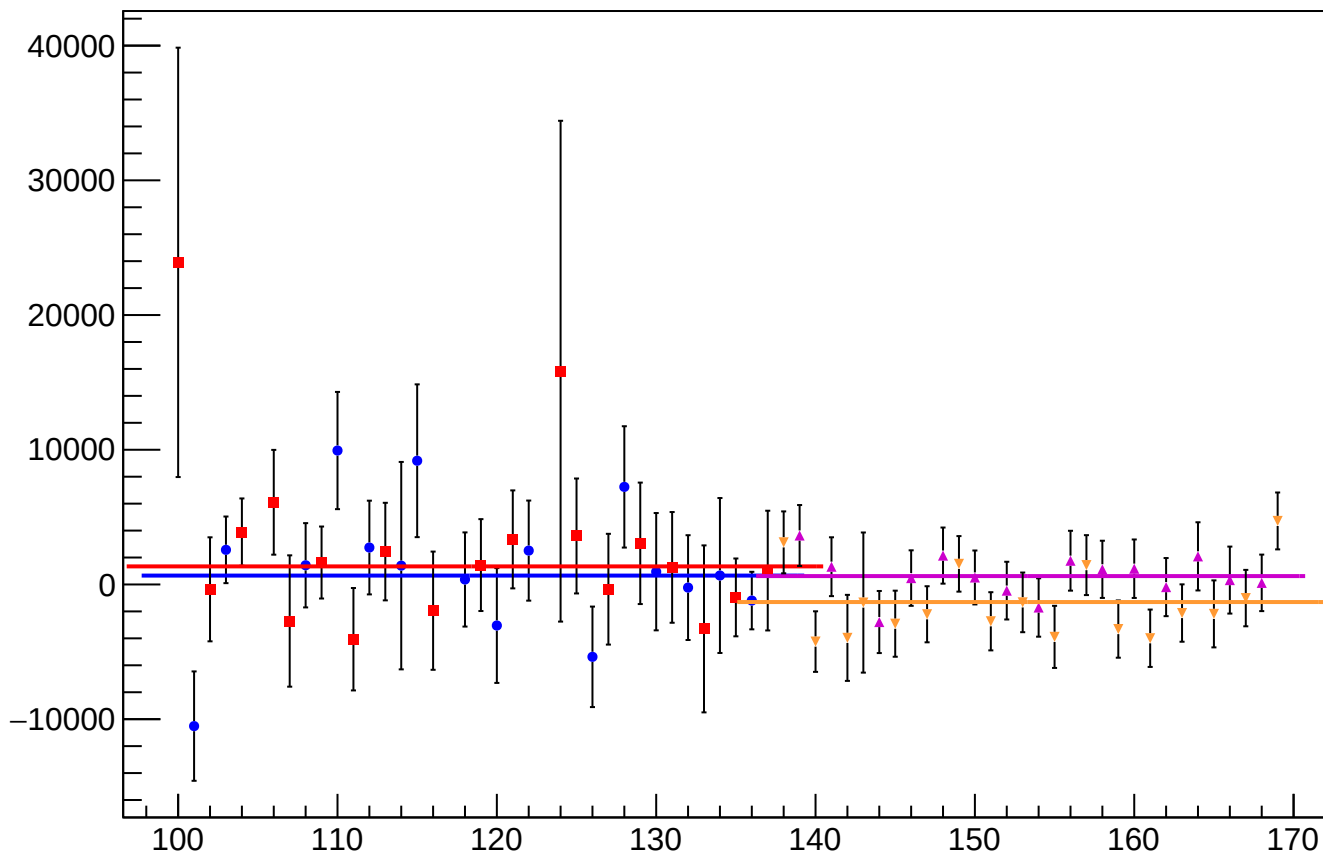
Right: 1364.632 $\pm$ 0.273 χ^2 /NDF: 4000599.5/34

In: 1056.816 $\pm$ 0.176 χ^2 /NDF:3052179.4/30

Out: 1029.130 $\pm$ 0.169 χ^2 /NDF:4335569.8/35

All: 1042.404 $\pm$ 0.122 χ^2 /NDF: 7400612.6/66

asym_at2_dd_mean vs Slug, Sign Corrected



Right In: 659.458 ± 909.570 χ^2/NDF : 22.0/15

Left Out: -1304.517 ± 555.567 χ^2/NDF : 22.7/16

Right Out: 1341.998 ± 890.576 χ^2/NDF : 10.8/18

Left In: 622.407 ± 564.621 χ^2/NDF : 7.0/14

Left: -356.627 ± 396.007 χ^2/NDF : 35.6/31

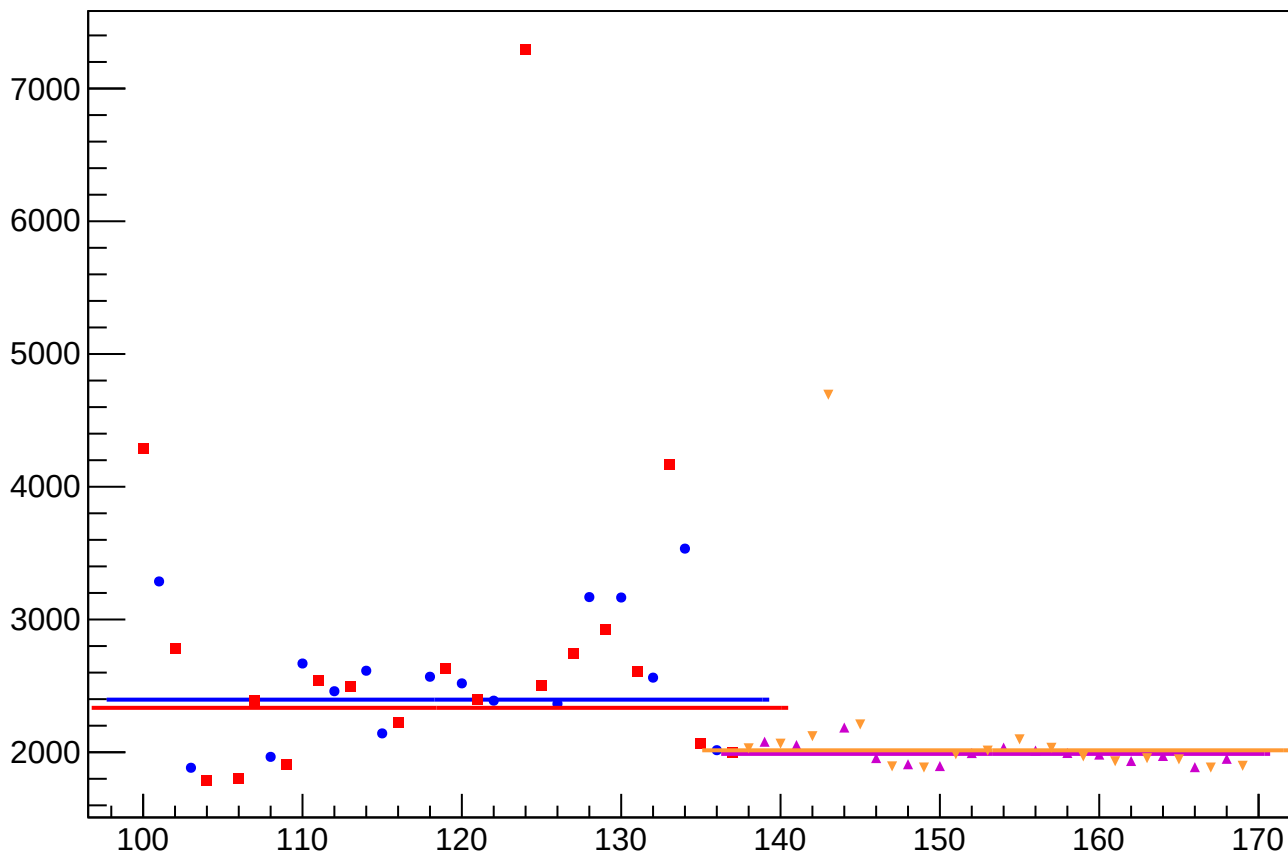
Right: 1007.929 ± 636.341 χ^2/NDF : 33.1/34

In: 632.713 ± 479.710 χ^2/NDF : 28.9/30

Out: -563.117 ± 471.368 χ^2/NDF : 39.9/35

All: 24.310 ± 336.218 χ^2/NDF : 72.0/66

asym_at2_dd_rms vs Slug, Sign Corrected



Right In: 2396.276 $\pm$ 0.643 χ^2/NDF : 507897.2/15

Left Out: 2014.587 $\pm$ 0.393 χ^2/NDF : 585013.2/16

Right Out: 2334.592 $\pm$ 0.630 χ^2/NDF : 681568.6/18

Left In: 1987.604 $\pm$ 0.399 χ^2/NDF : 33870.0/14

Left: 2001.313 $\pm$ 0.280 χ^2/NDF : 621204.0/31

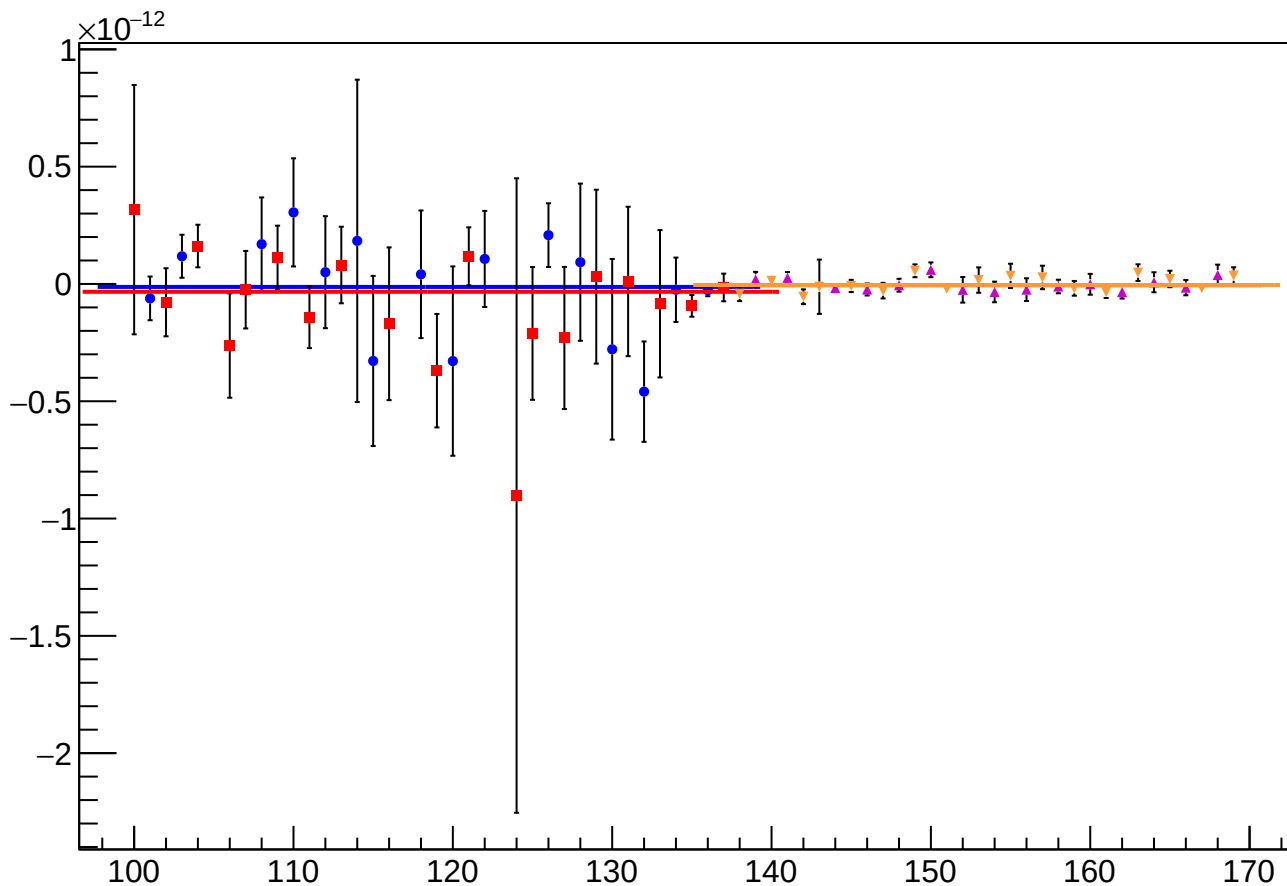
Right: 2364.783 $\pm$ 0.450 χ^2/NDF : 1194162.0/34

In: 2101.278 $\pm$ 0.339 χ^2/NDF : 833209.4/30

Out: 2104.235 $\pm$ 0.333 χ^2/NDF : 1452471.4/35

All: 2102.782 $\pm$ 0.238 χ^2/NDF : 2285719.4/66

asym_at2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 14.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 18.2/16

Right Out: -0.000+/-0.000 χ^2/NDF : 15.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 11.0/14

Left: -0.000+/-0.000 χ^2/NDF : 29.2/31

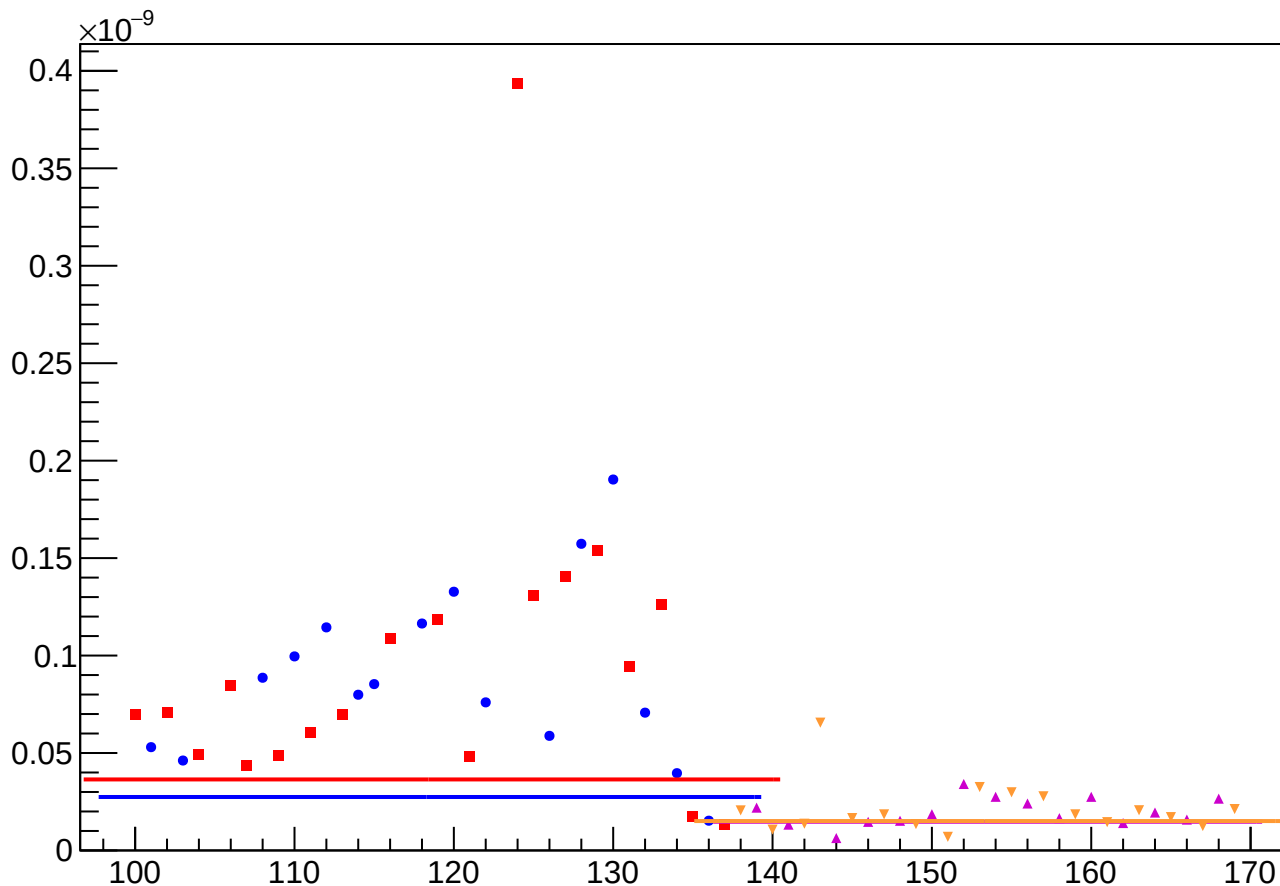
Right: -0.000+/-0.000 χ^2/NDF : 30.4/34

In: -0.000+/-0.000 χ^2/NDF : 25.9/30

Out: -0.000+/-0.000 χ^2/NDF : 34.5/35

All: -0.000+/-0.000 χ^2/NDF : 60.3/66

asym_at2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2728016.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1638482.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2442395.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 1719899.2/14

Left: 0.000+/-0.000 χ^2/NDF : 3360765.6/31

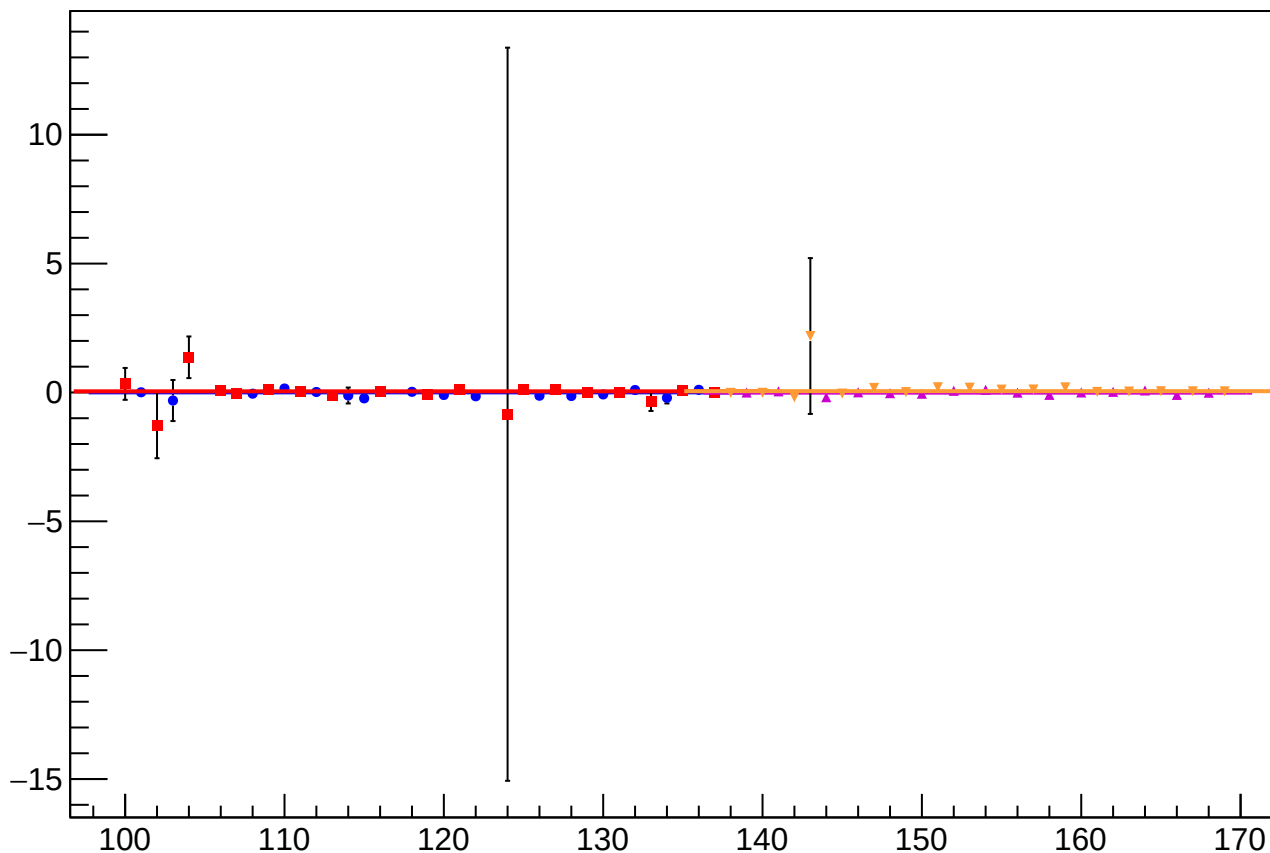
Right: 0.000+/-0.000 χ^2/NDF : 5297550.6/34

In: 0.000+/-0.000 χ^2/NDF : 5037990.2/30

Out: 0.000+/-0.000 χ^2/NDF : 5175049.9/35

All: 0.000+/-0.000 χ^2/NDF : 10215732.4/66

asym_at2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.027 χ^2 /NDF: 13.3/15

Left Out: 0.050 $\pm$ 0.017 χ^2 /NDF:19.4/16

Right Out: 0.044 $\pm$ 0.025 χ^2 /NDF: 12.7/18

Left In: -0.008 $\pm$ 0.019 χ^2 /NDF:9.2/14

Left: 0.023 $\pm$ 0.013 χ^2 /NDF: 33.9/31

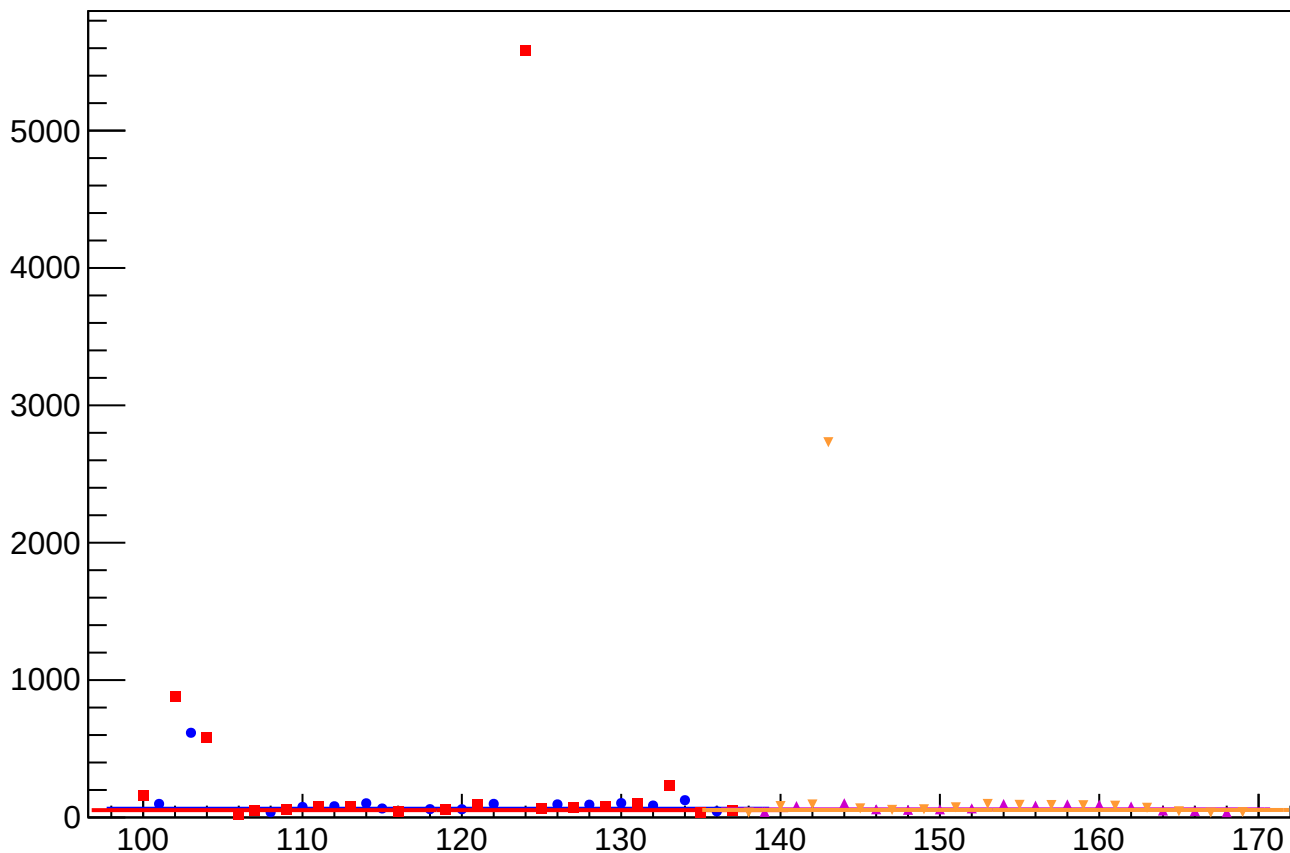
Right: 0.025 $\pm$ 0.018 χ^2 /NDF: 27.2/34

In: -0.004 $\pm$ 0.015 χ^2 /NDF:22.6/30

Out: 0.048 $\pm$ 0.014 χ^2 /NDF:32.1/35

All: 0.024 $\pm$ 0.010 χ^2 /NDF: 61.1/66

asym_at2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 63.454+/-0.019 χ^2/NDF : 2445255.1/15

Left Out: 54.526+/-0.012 χ^2/NDF : 4501120.5/16

Right Out: 53.206+/-0.018 χ^2/NDF : 3945779.6/18

Left In: 59.085+/-0.013 χ^2/NDF : 2269438.9/14

Left: 56.628+/-0.009 χ^2/NDF : 6835304.3/31

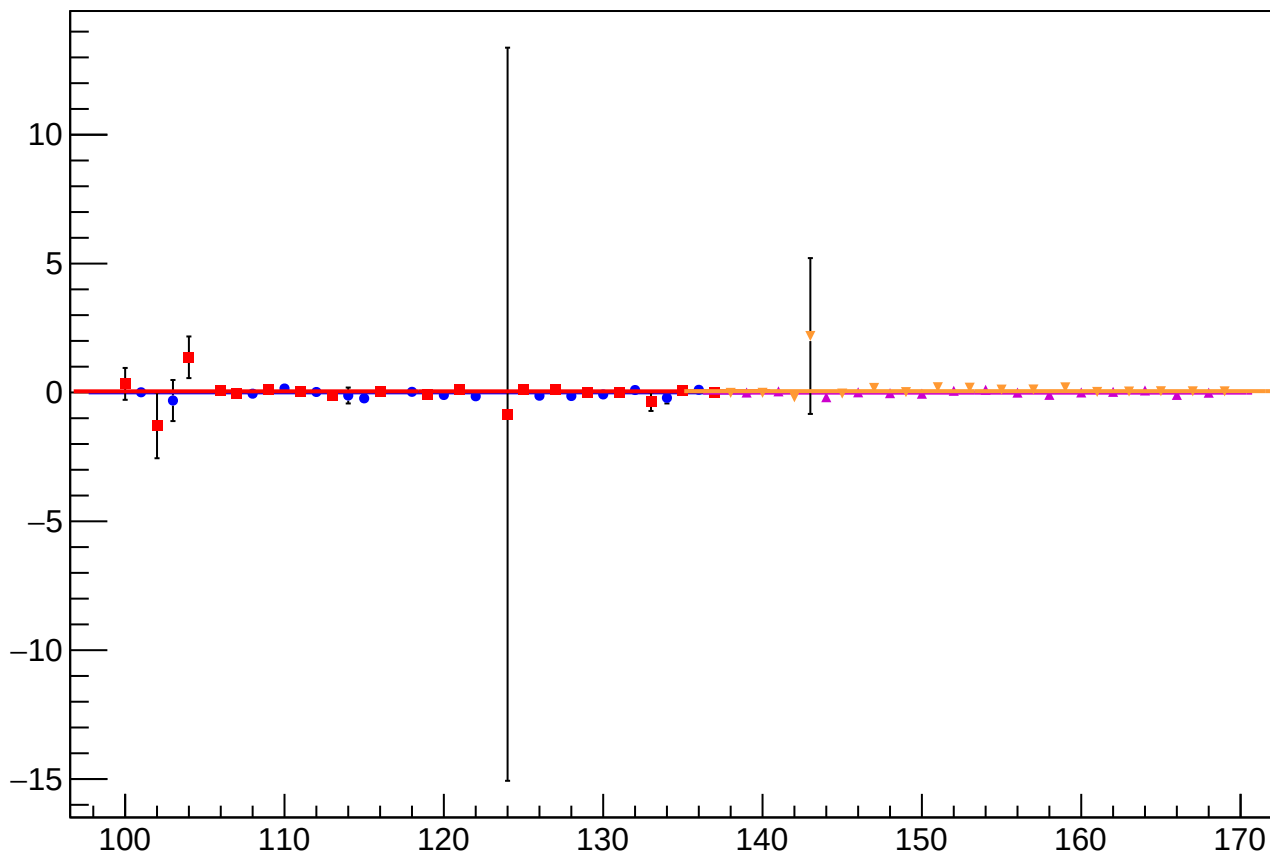
Right: 57.863+/-0.013 χ^2/NDF : 6545762.5/34

In: 60.477+/-0.011 χ^2/NDF : 4749826.2/30

Out: 54.098+/-0.010 χ^2/NDF : 8450711.3/35

All: 57.026+/-0.007 χ^2/NDF : 13387213.5/66

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.027 χ^2 /NDF: 13.3/15

Left Out: 0.050 $\pm$ 0.017 χ^2 /NDF:19.4/16

Right Out: 0.044 $\pm$ 0.025 χ^2 /NDF: 12.7/18

Left In: -0.008 $\pm$ 0.019 χ^2 /NDF:9.2/14

Left: 0.023 $\pm$ 0.013 χ^2 /NDF: 33.9/31

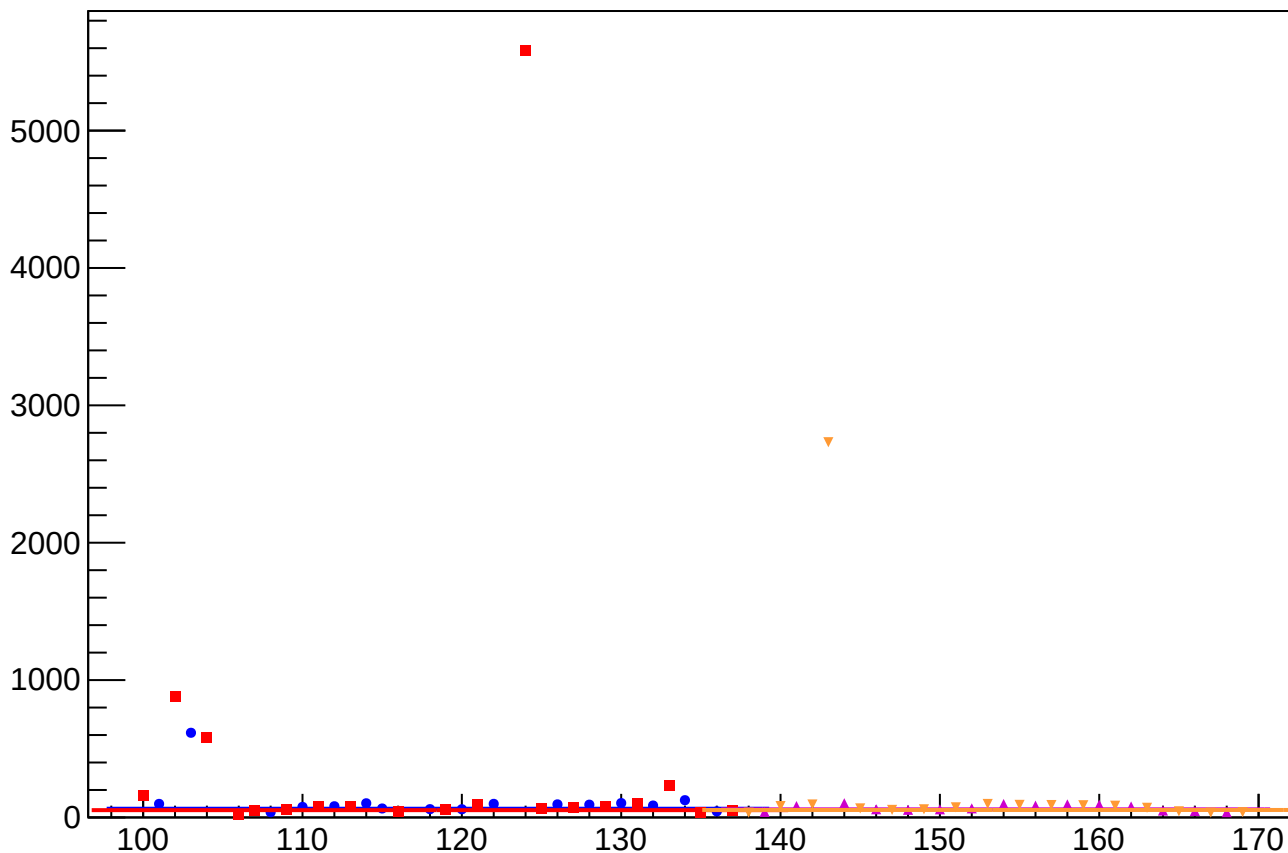
Right: 0.025 $\pm$ 0.018 χ^2 /NDF: 27.2/34

In: -0.004 $\pm$ 0.015 χ^2 /NDF:22.6/30

Out: 0.048 $\pm$ 0.014 χ^2 /NDF:32.1/35

All: 0.024 $\pm$ 0.010 χ^2 /NDF: 61.1/66

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 63.454+/-0.019 χ^2/NDF : 2445255.1/15

Left Out: 54.526+/-0.012 χ^2/NDF : 4501120.5/16

Right Out: 53.206+/-0.018 χ^2/NDF : 3945779.6/18

Left In: 59.085+/-0.013 χ^2/NDF : 2269438.9/14

Left: 56.628+/-0.009 χ^2/NDF : 6835304.3/31

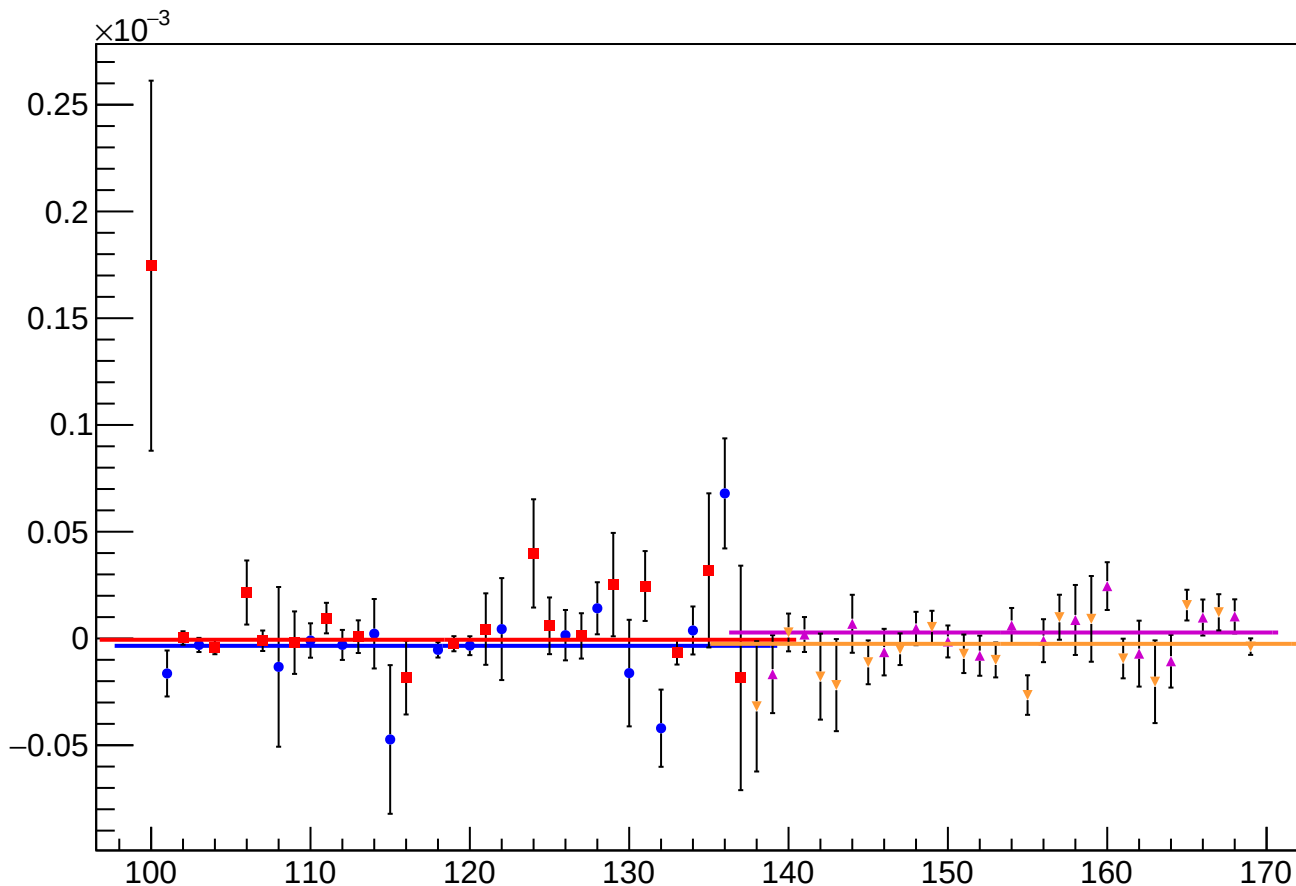
Right: 57.863+/-0.013 χ^2/NDF : 6545762.5/34

In: 60.477+/-0.011 χ^2/NDF : 4749826.2/30

Out: 54.098+/-0.010 χ^2/NDF : 8450711.3/35

All: 57.026+/-0.007 χ^2/NDF : 13387213.5/66

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 18.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 25.0/16

Right Out: -0.000+/-0.000 χ^2/NDF : 19.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 11.0/14

Left: -0.000+/-0.000 χ^2/NDF : 38.7/31

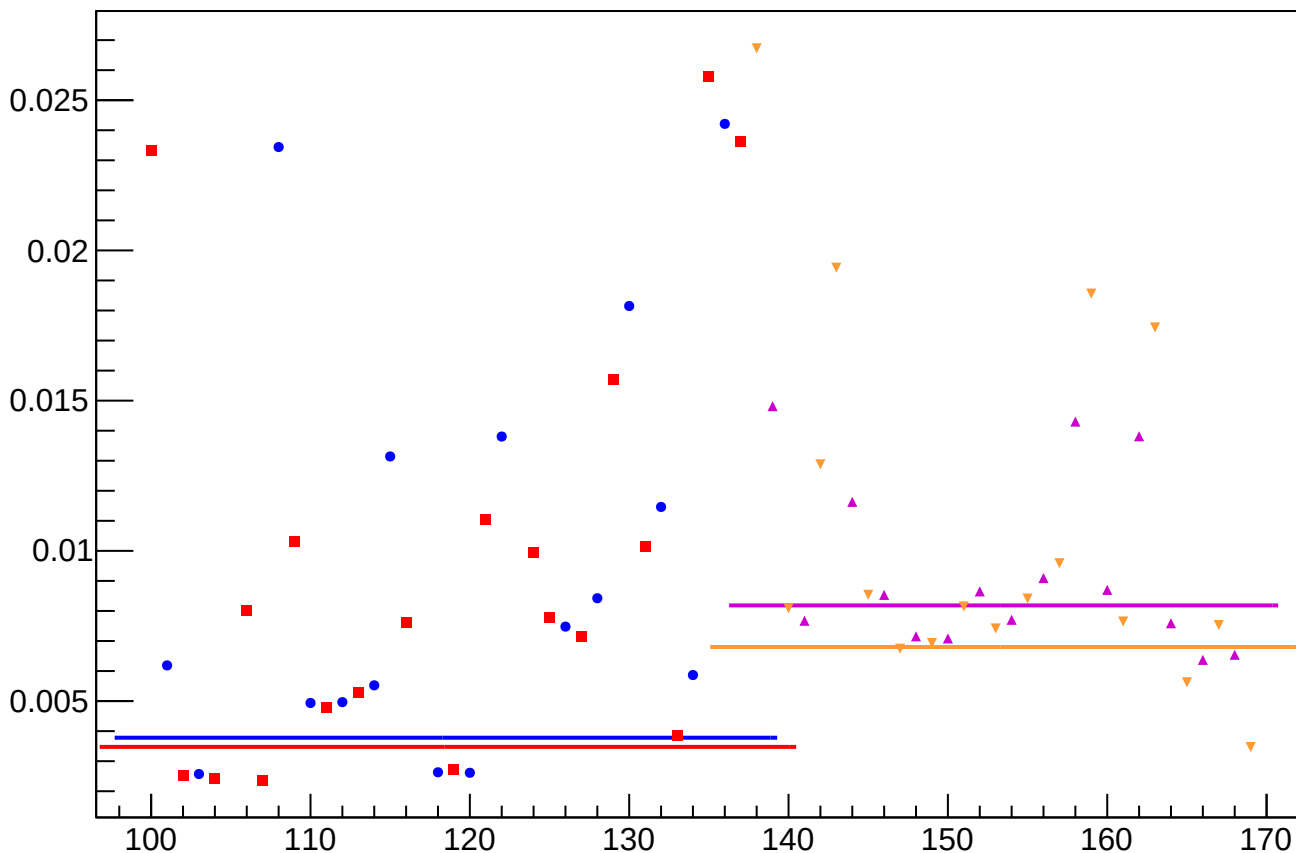
Right: -0.000+/-0.000 χ^2/NDF : 39.5/34

In: -0.000+/-0.000 χ^2/NDF : 33.9/30

Out: -0.000+/-0.000 χ^2/NDF : 44.7/35

All: -0.000+/-0.000 χ^2/NDF : 78.6/66

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000

χ^2/NDF : 4719536.5/15

Left Out: 0.007+/-0.000

χ^2/NDF : 4934300.9/16

Right Out: 0.003+/-0.000

χ^2/NDF : 4495340.7/18

Left In: 0.008+/-0.000

χ^2/NDF : 1239114.3/14

Left: 0.007+/-0.000

χ^2/NDF : 6526216.3/31

Right: 0.004+/-0.000

χ^2/NDF : 9247440.2/34

In: 0.005+/-0.000

χ^2/NDF : 9908697.6/30

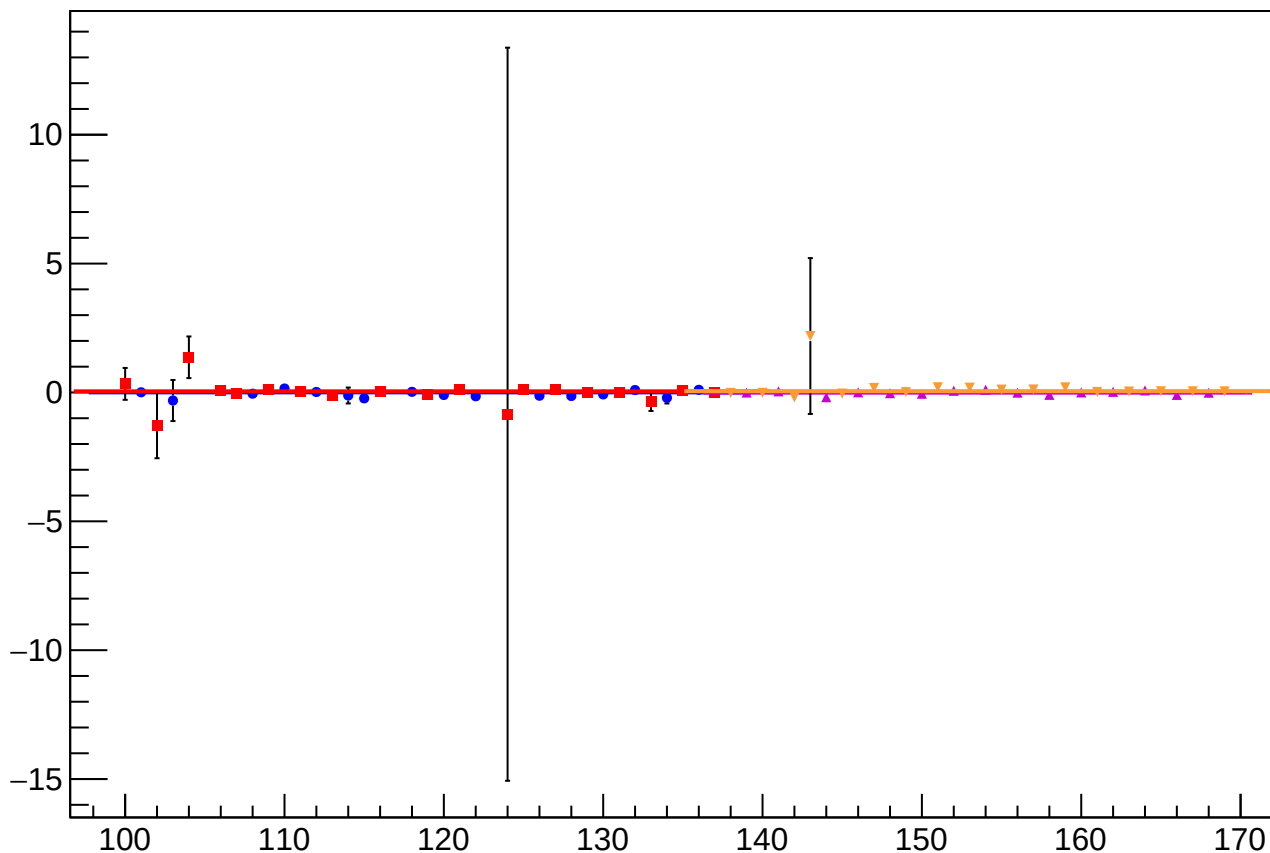
Out: 0.005+/-0.000

χ^2/NDF : 12695801.2/35

All: 0.005+/-0.000

χ^2/NDF : 22815224.5/66

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.027 χ^2 /NDF: 13.3/15

Left Out: 0.050 $\pm$ 0.017 χ^2 /NDF:19.4/16

Right Out: 0.044 $\pm$ 0.025 χ^2 /NDF: 12.7/18

Left In: -0.008 $\pm$ 0.019 χ^2 /NDF:9.2/14

Left: 0.023 $\pm$ 0.013 χ^2 /NDF: 33.9/31

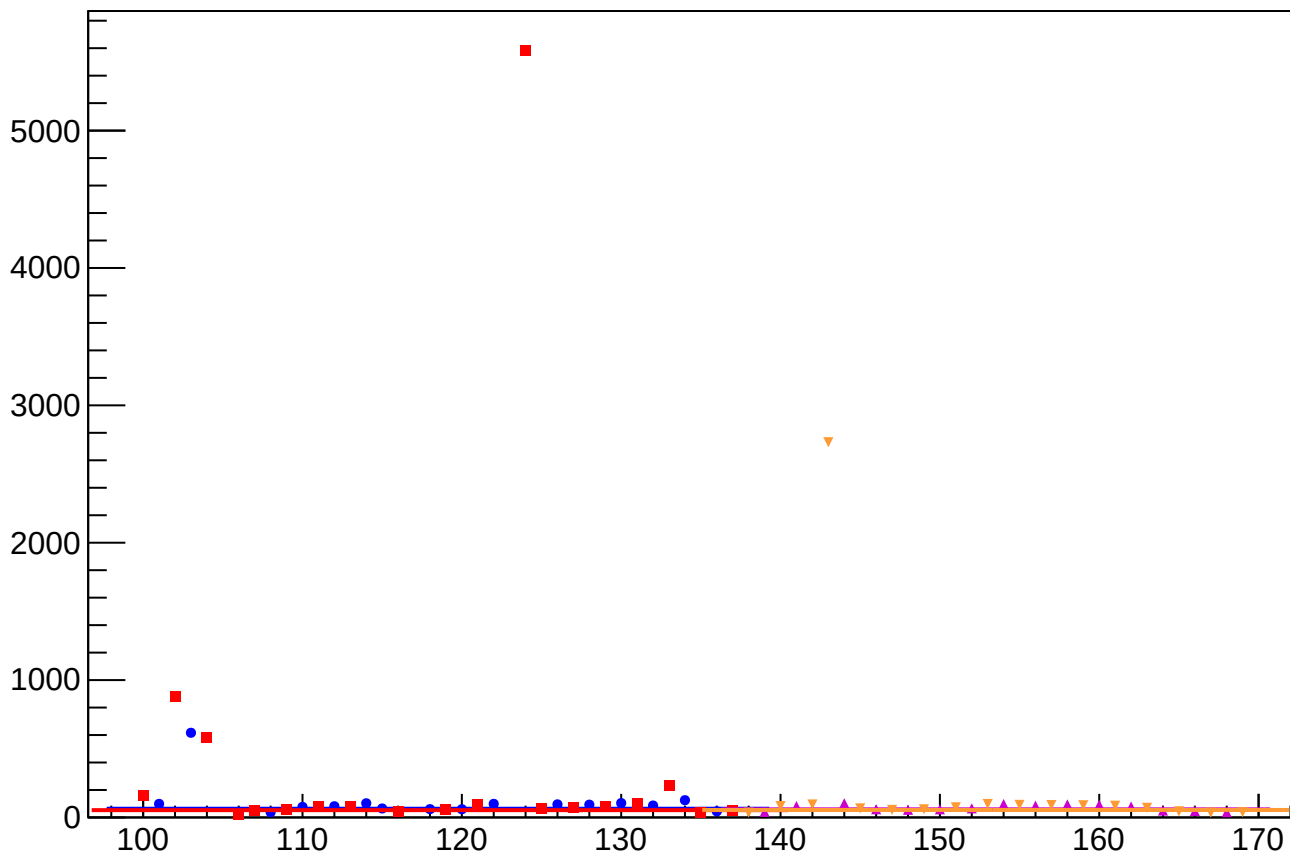
Right: 0.025 $\pm$ 0.018 χ^2 /NDF: 27.2/34

In: -0.004 $\pm$ 0.015 χ^2 /NDF:22.6/30

Out: 0.048 $\pm$ 0.014 χ^2 /NDF:32.1/35

All: 0.024 $\pm$ 0.010 χ^2 /NDF: 61.1/66

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 63.463+/-0.019 χ^2/NDF : 2444357.3/15

Left Out: 54.524+/-0.012 χ^2/NDF : 4500836.5/16

Right Out: 53.201+/-0.018 χ^2/NDF : 3946328.9/18

Left In: 59.088+/-0.013 χ^2/NDF : 2268869.3/14

Left: 56.629+/-0.009 χ^2/NDF : 6834568.8/31

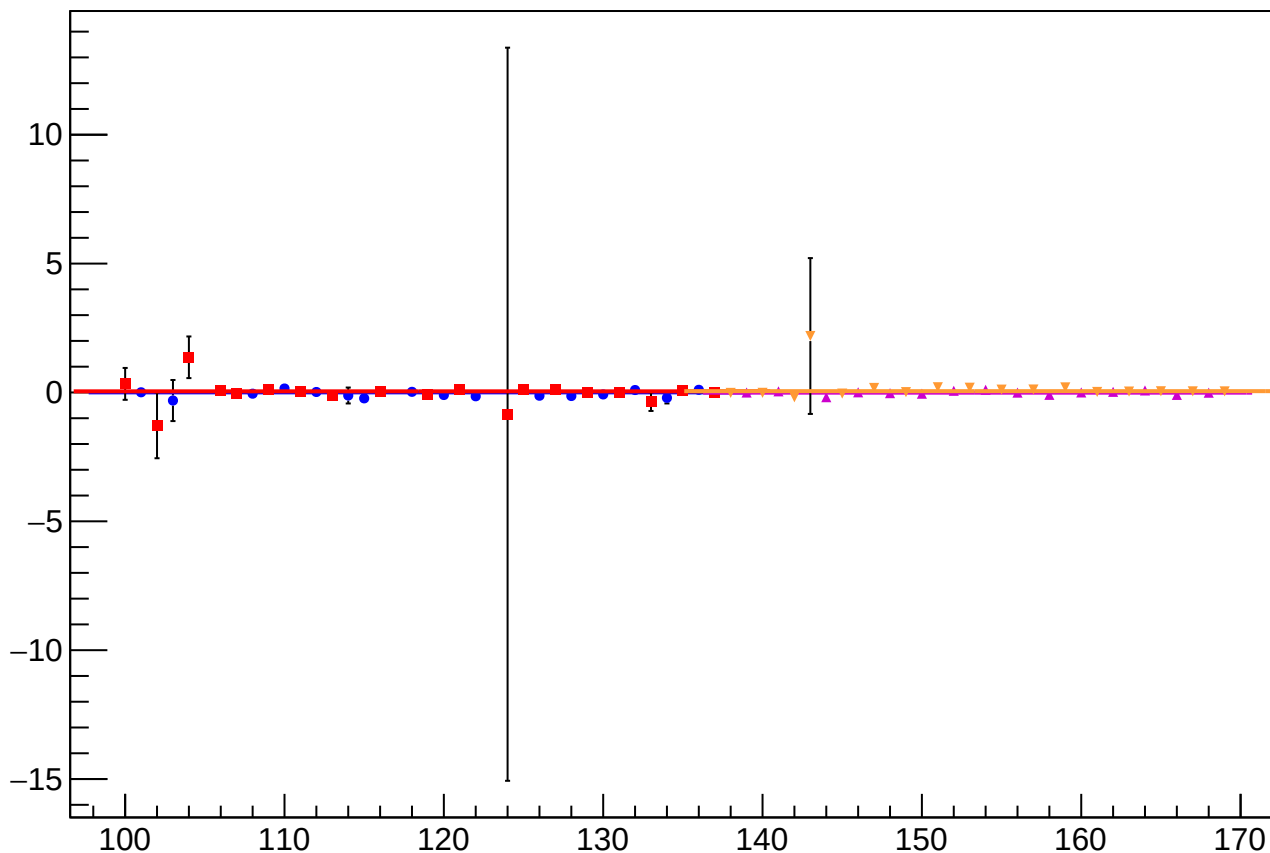
Right: 57.864+/-0.013 χ^2/NDF : 6545828.7/34

In: 60.481+/-0.011 χ^2/NDF : 4748446.7/30

Out: 54.095+/-0.010 χ^2/NDF : 8451000.2/35

All: 57.026+/-0.007 χ^2/NDF : 13386541.8/66

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.027 $\chi^2/\text{NDF}: 13.3/15$

Left Out: 0.050 ± 0.017 $\chi^2/\text{NDF}: 19.4/16$

Right Out: 0.044 ± 0.025 $\chi^2/\text{NDF}: 12.7/18$

Left In: -0.008 ± 0.019 $\chi^2/\text{NDF}: 9.2/14$

Left: 0.023 ± 0.013 $\chi^2/\text{NDF}: 33.9/31$

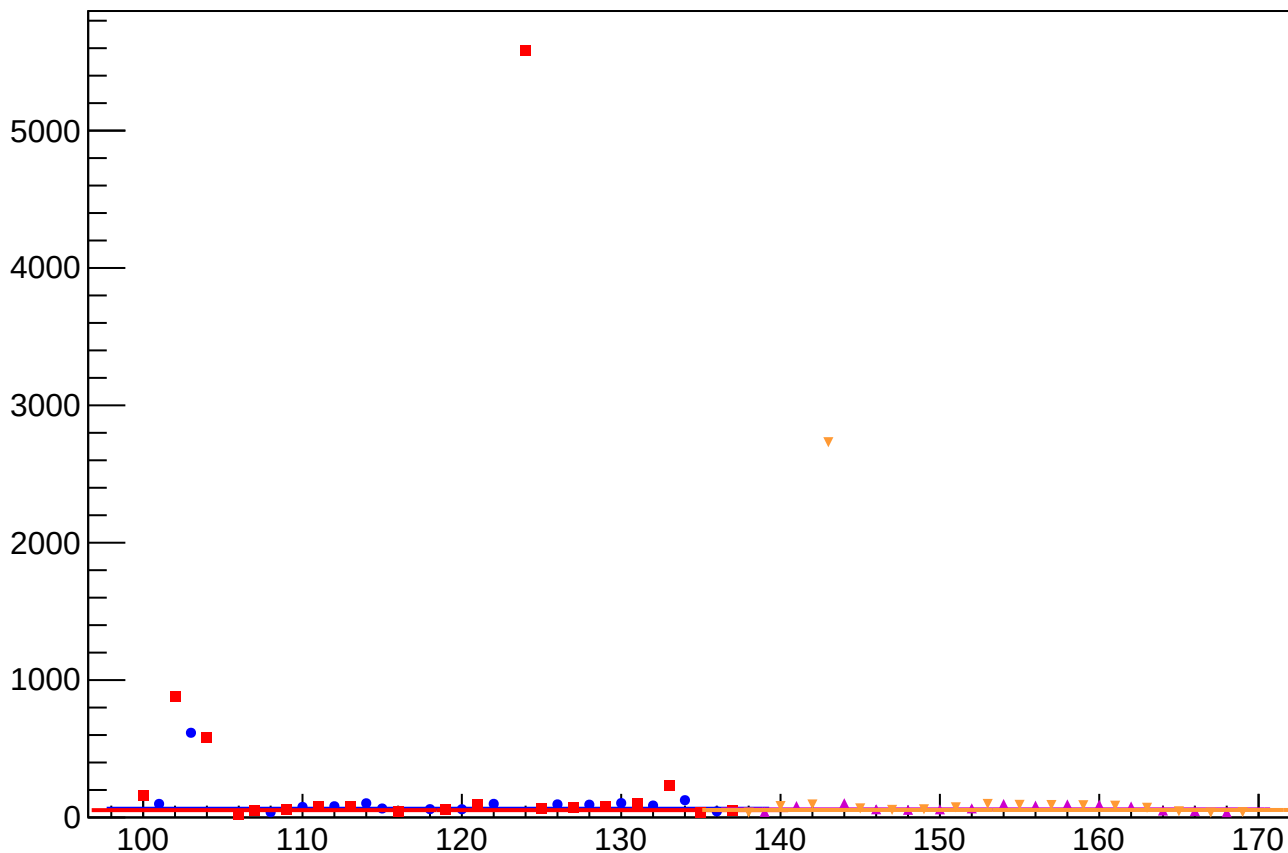
Right: 0.025 ± 0.018 $\chi^2/\text{NDF}: 27.2/34$

In: -0.004 ± 0.015 $\chi^2/\text{NDF}: 22.6/30$

Out: 0.048 ± 0.014 $\chi^2/\text{NDF}: 32.1/35$

All: 0.024 ± 0.010 $\chi^2/\text{NDF}: 61.1/66$

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 63.463+/-0.019 χ^2/NDF : 2444357.3/15

Left Out: 54.524+/-0.012 χ^2/NDF : 4500836.5/16

Right Out: 53.201+/-0.018 χ^2/NDF : 3946328.9/18

Left In: 59.088+/-0.013 χ^2/NDF : 2268869.3/14

Left: 56.629+/-0.009 χ^2/NDF : 6834568.8/31

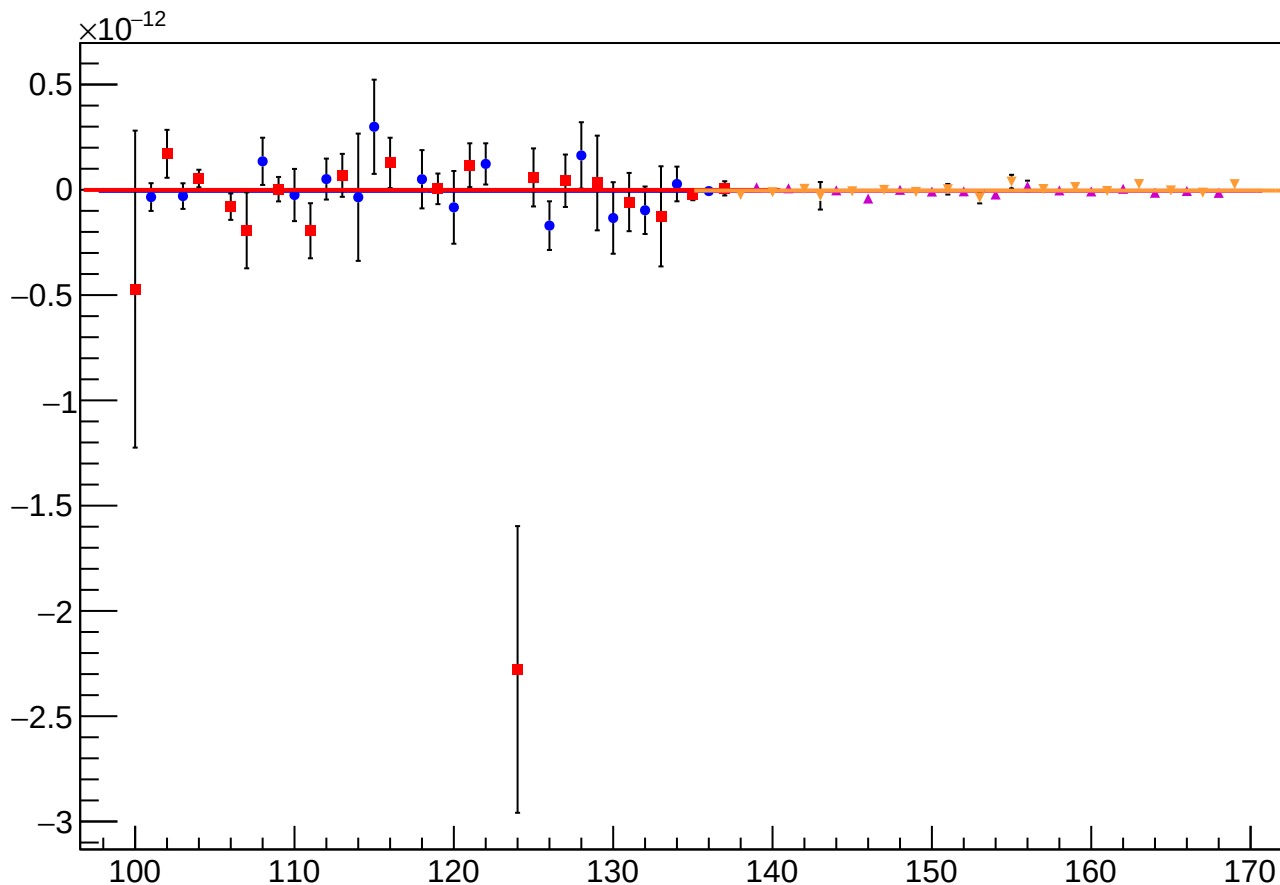
Right: 57.864+/-0.013 χ^2/NDF : 6545828.7/34

In: 60.481+/-0.011 χ^2/NDF : 4748446.7/30

Out: 54.095+/-0.010 χ^2/NDF : 8451000.2/35

All: 57.026+/-0.007 χ^2/NDF : 13386541.8/66

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 10.8/15

Left Out: -0.000+/-0.000 χ^2 /NDF:12.7/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 25.1/18

Left In: -0.000+/-0.000 χ^2 /NDF:9.3/14

Left: -0.000+/-0.000 χ^2 /NDF: 22.0/31

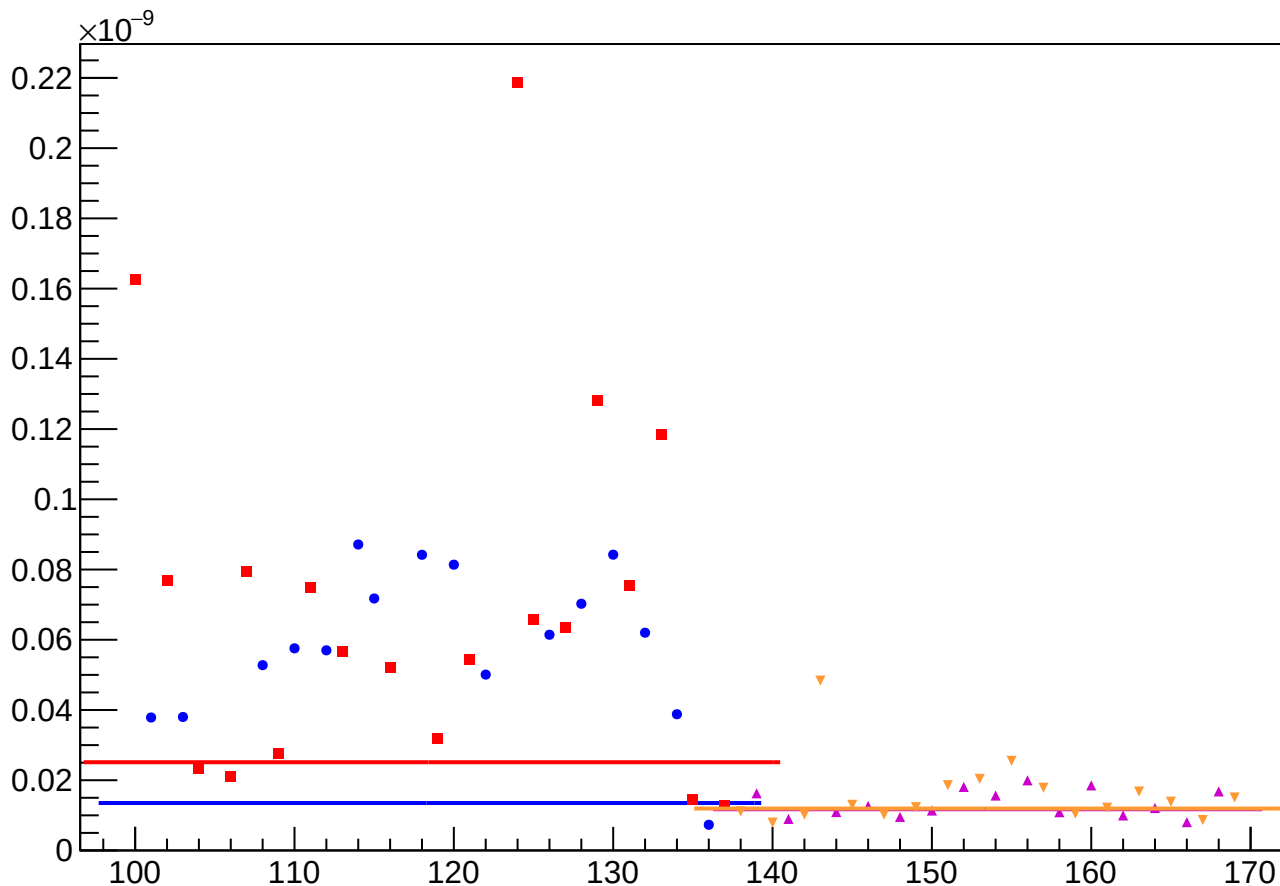
Right: -0.000+/-0.000 χ^2 /NDF: 36.0/34

In: -0.000+/-0.000 χ^2 /NDF:20.1/30

Out: -0.000+/-0.000 χ^2 /NDF:37.8/35

All: -0.000+/-0.000 χ^2 /NDF: 58.0/66

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4993378.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :2132918.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3578472.9/18

Left In: 0.000+/-0.000 χ^2/NDF :1166666.6/14

Left: 0.000+/-0.000 χ^2/NDF : 3301891.0/31

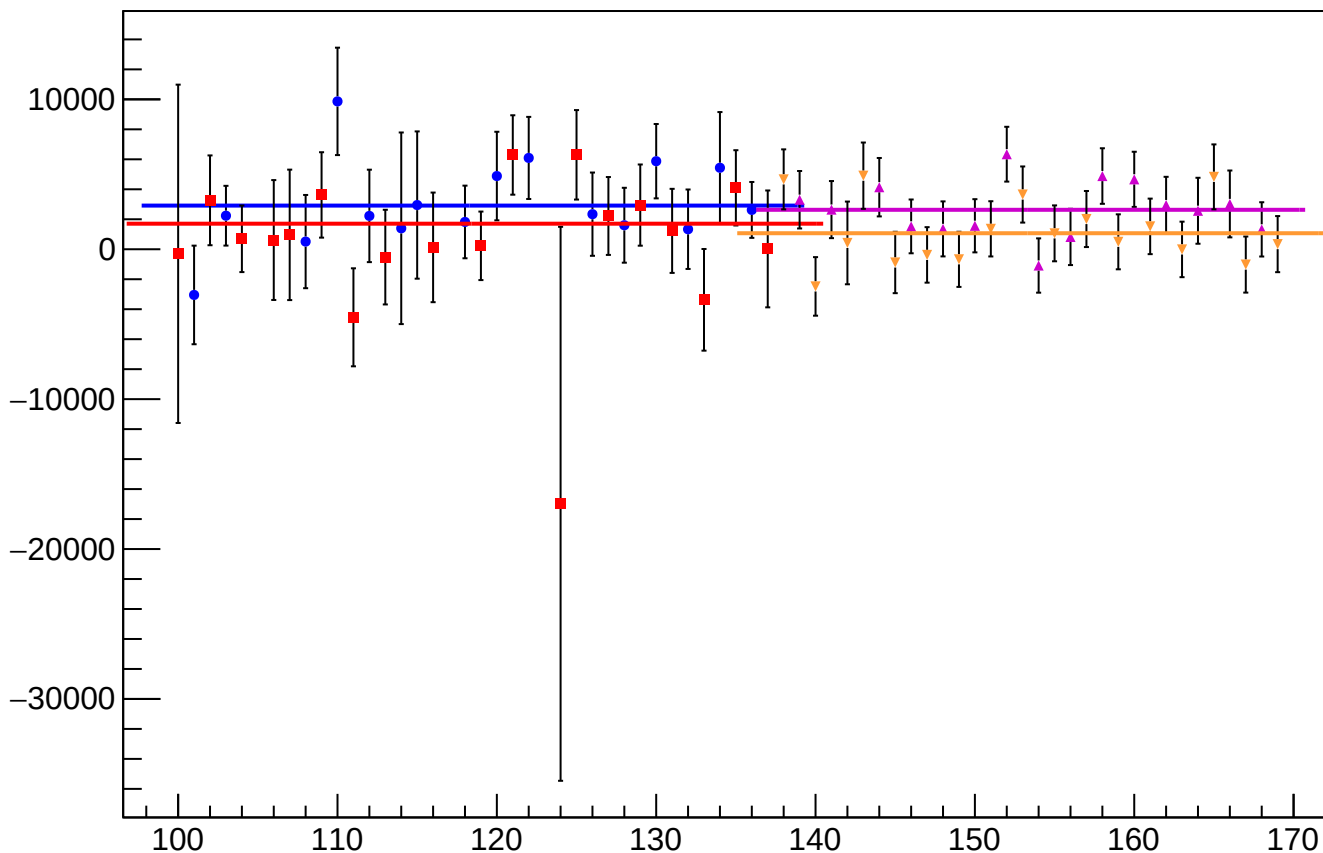
Right: 0.000+/-0.000 χ^2/NDF : 9384983.4/34

In: 0.000+/-0.000 χ^2/NDF :6211380.9/30

Out: 0.000+/-0.000 χ^2/NDF :7139260.5/35

All: 0.000+/-0.000 χ^2/NDF : 13400519.3/66

reg_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2912.991 ± 695.062 χ^2/NDF : 12.4/15

Left Out: 1069.181 ± 471.849 χ^2/NDF : 19.1/16

Right Out: 1704.904 ± 706.846 χ^2/NDF : 15.8/18

Left In: 2631.806 ± 487.572 χ^2/NDF : 14.5/14

Left: 1824.892 ± 339.070 χ^2/NDF : 38.9/31

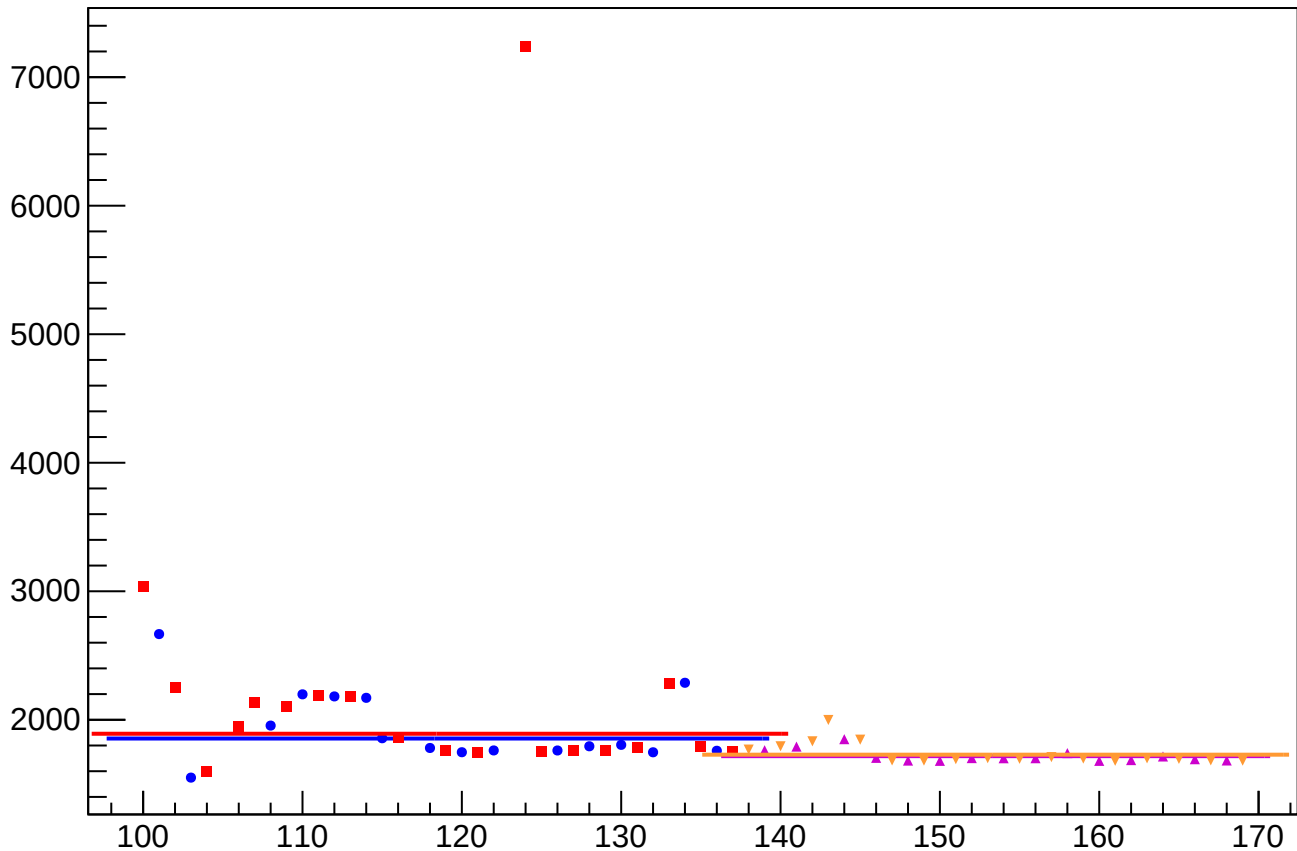
Right: 2319.102 ± 495.597 χ^2/NDF : 29.8/34

In: 2724.538 ± 399.157 χ^2/NDF : 27.0/30

Out: 1265.143 ± 392.444 χ^2/NDF : 35.5/35

All: 1982.465 ± 279.843 χ^2/NDF : 69.3/66

reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.314+/-0.491 χ^2/NDF : 263322.7/15

Left Out: 1728.589+/-0.334 χ^2/NDF : 51697.7/16

Right Out: 1891.469+/-0.499 χ^2/NDF : 364050.6/18

Left In: 1717.169+/-0.345 χ^2/NDF : 18072.2/14

Left: 1723.066+/-0.240 χ^2/NDF : 70336.4/31

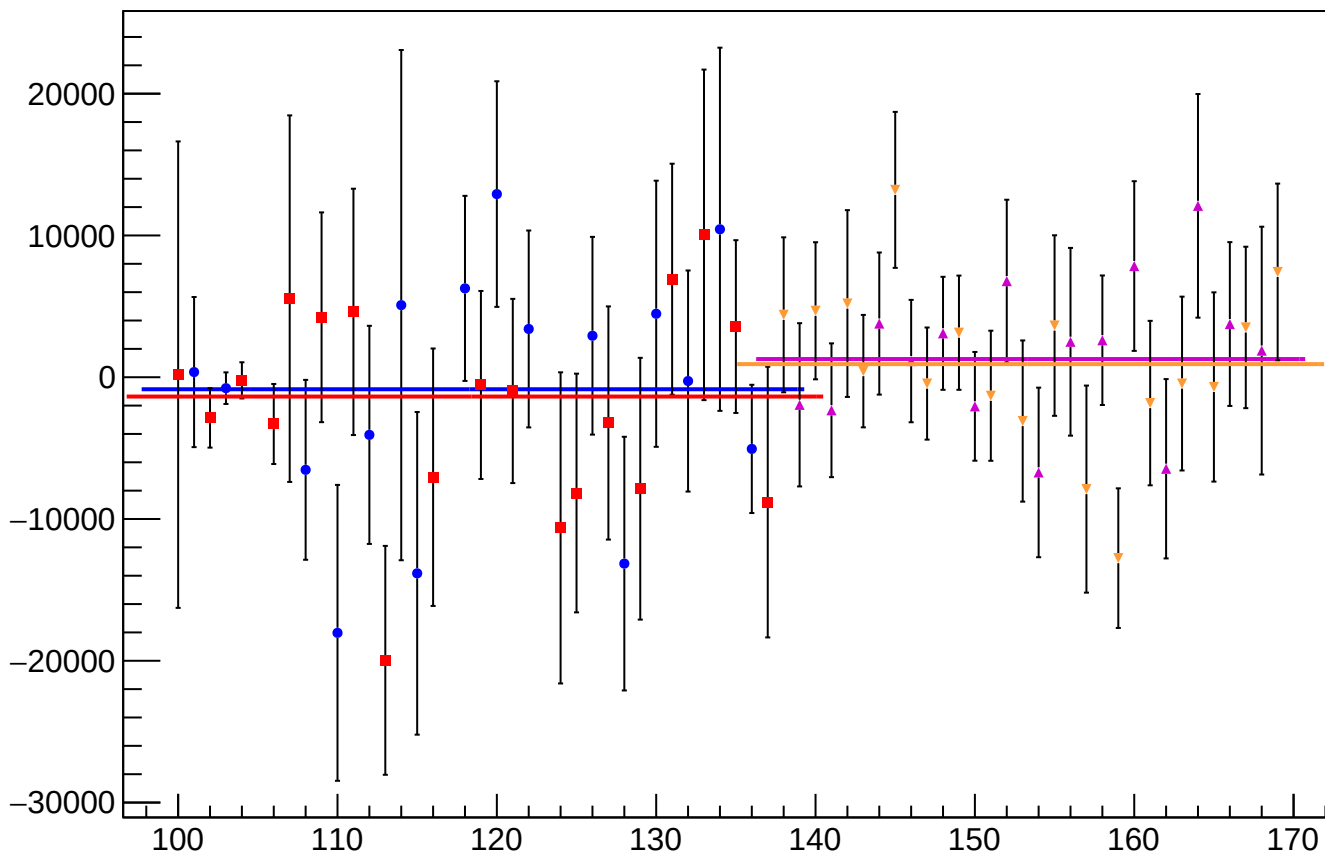
Right: 1872.622+/-0.350 χ^2/NDF : 630189.4/34

In: 1762.398+/-0.282 χ^2/NDF : 333580.4/30

Out: 1778.958+/-0.277 χ^2/NDF : 489446.8/35

All: 1770.824+/-0.198 χ^2/NDF : 824778.8/66

asym_atl1r2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -847.977+/-962.920 χ^2/NDF : 13.9/15

Left Out: 923.897+/-1269.964 χ^2/NDF :18.6/16

Right Out: -1361.523+/-915.925 χ^2/NDF : 14.0/18

Left In: 1282.128+/-1360.033 χ^2/NDF :9.7/14

Left: 1090.759+/-928.209 χ^2/NDF : 28.3/31

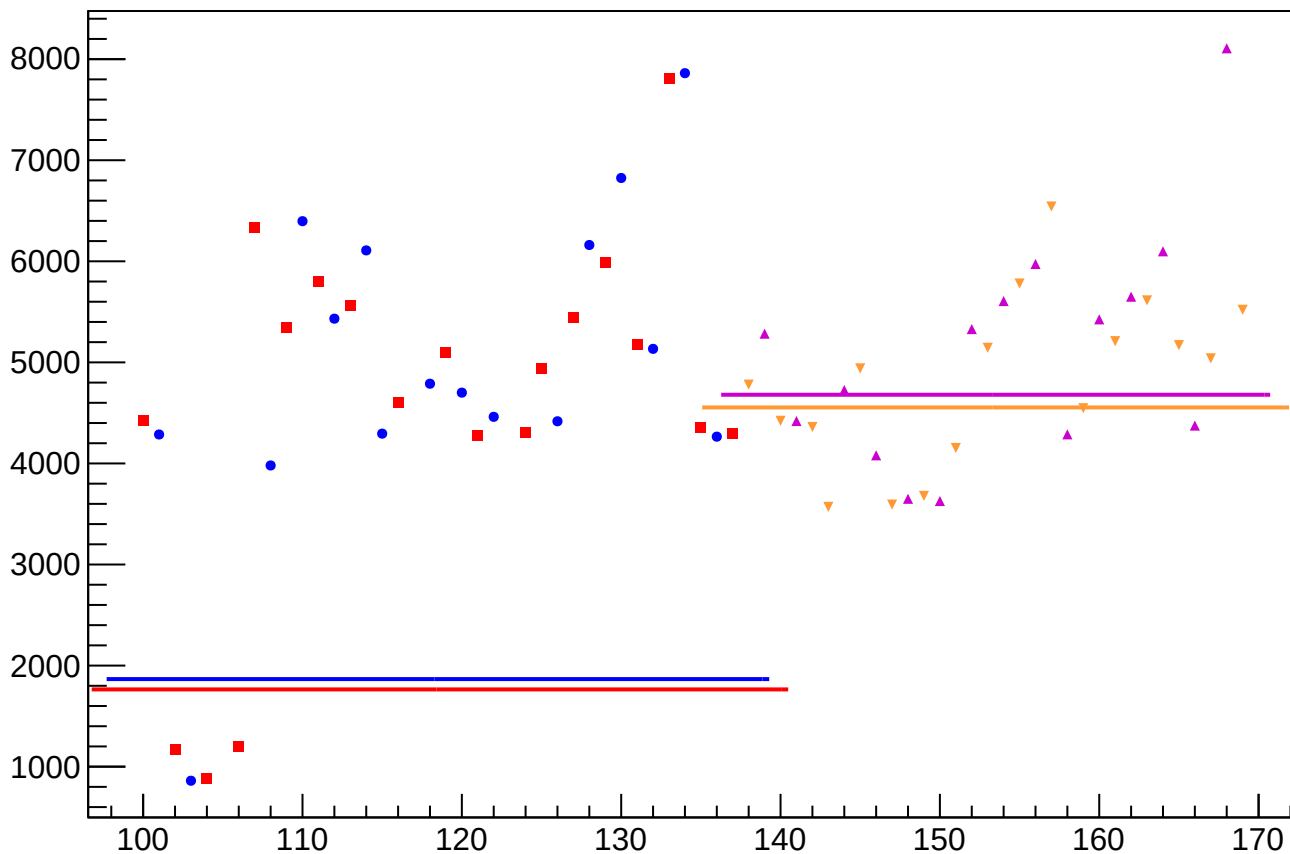
Right: -1117.587+/-663.649 χ^2/NDF : 28.0/34

In: -136.730+/-785.885 χ^2/NDF :25.2/30

Out: -579.510+/-742.874 χ^2/NDF :34.7/35

All: -370.568+/-539.856 χ^2/NDF : 60.1/66

asym_atl1r2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1866.405 $\pm$ 0.681 χ^2 /NDF: 6849638.3/15

Left Out: 4554.096 $\pm$ 0.898 χ^2 /NDF: 776431.3/16

Right Out: 1764.281 $\pm$ 0.648 χ^2 /NDF: 6434807.7/18

Left In: 4679.645 $\pm$ 0.962 χ^2 /NDF: 971431.1/14

Left: 4612.576 $\pm$ 0.656 χ^2 /NDF: 1756967.1/31

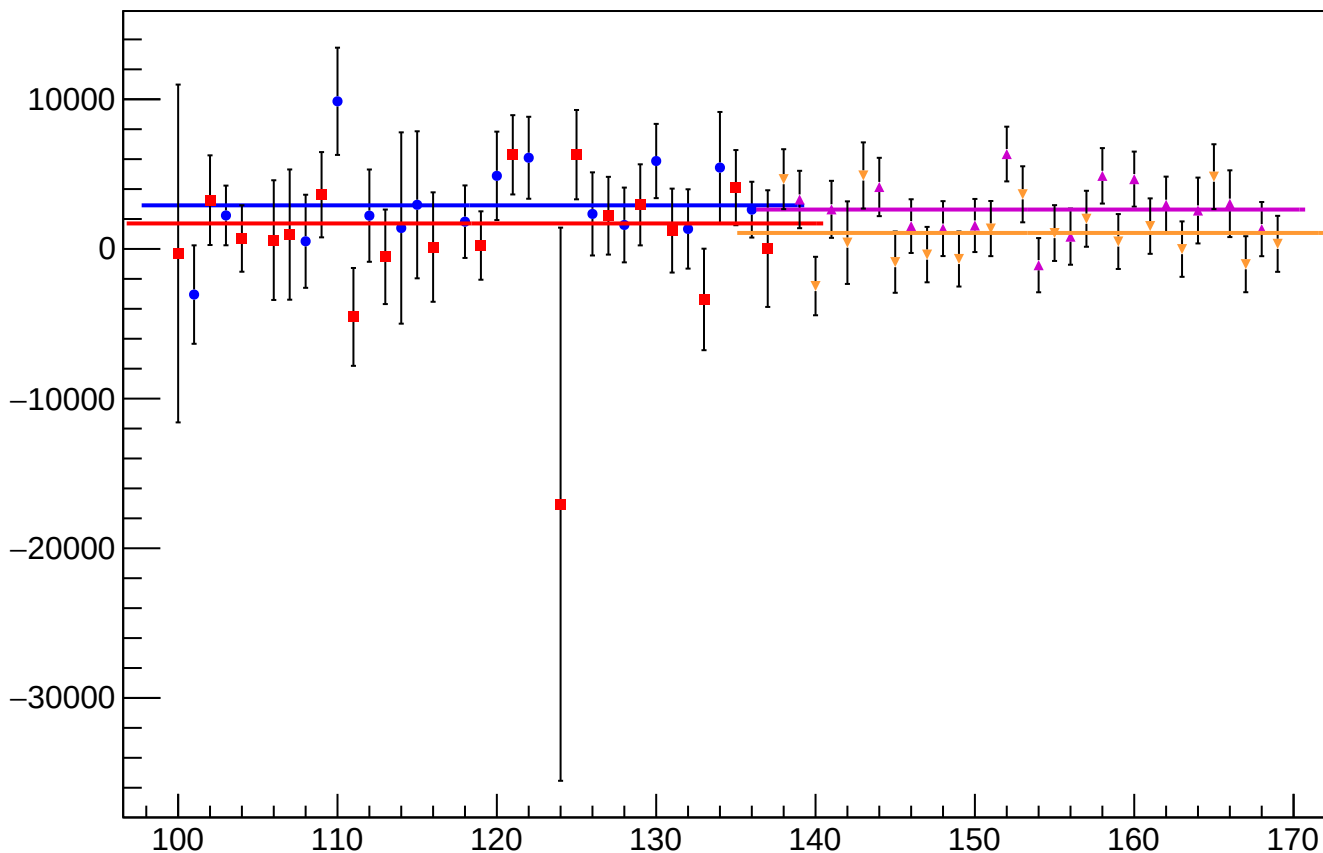
Right: 1812.790 $\pm$ 0.469 χ^2 /NDF: 13296256.2/34

In: 2805.752 $\pm$ 0.556 χ^2 /NDF: 13521174.7/30

Out: 2718.885 $\pm$ 0.525 χ^2 /NDF: 13560289.2/35

All: 2759.876 $\pm$ 0.382 χ^2 /NDF: 27094368.7/69

cor_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2913.091 $\pm$ 695.062 χ^2 /NDF: 12.4/15

Left Out: 1069.010 $\pm$ 471.849 χ^2 /NDF:19.1/16

Right Out: 1703.523 $\pm$ 706.847 χ^2 /NDF: 15.8/18

Left In: 2631.835 $\pm$ 487.572 χ^2 /NDF:14.5/14

Left: 1824.818 $\pm$ 339.070 χ^2 /NDF: 38.9/31

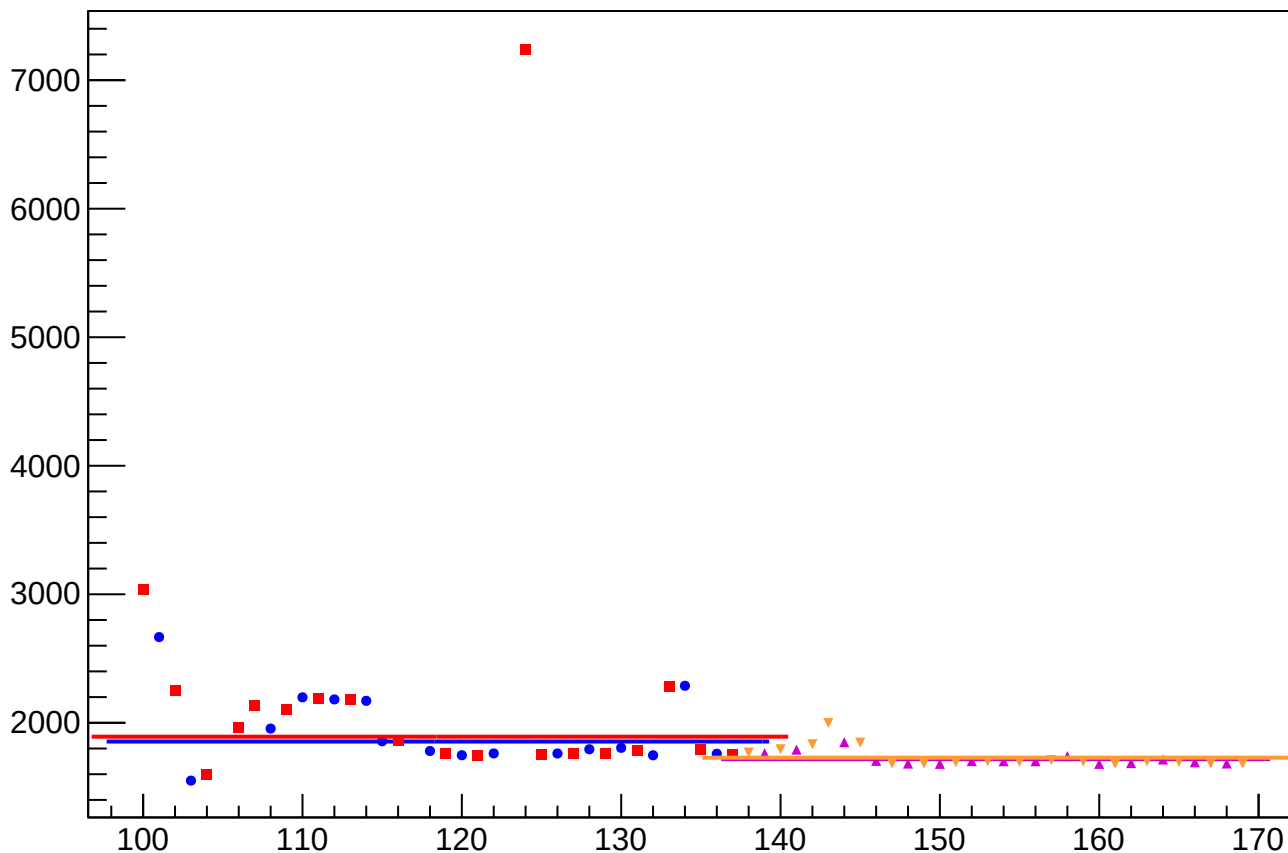
Right: 2318.475 $\pm$ 495.597 χ^2 /NDF: 29.8/34

In: 2724.591 $\pm$ 399.157 χ^2 /NDF:27.0/30

Out: 1264.599 $\pm$ 392.444 χ^2 /NDF:35.5/35

All: 1982.215 $\pm$ 279.843 χ^2 /NDF: 69.3/66

cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.314+/-0.491 χ^2/NDF : 263322.5/15

Left Out: 1728.589+/-0.334 χ^2/NDF : 51697.7/16

Right Out: 1891.927+/-0.499 χ^2/NDF : 364292.2/18

Left In: 1717.169+/-0.345 χ^2/NDF : 18072.2/14

Left: 1723.066+/-0.240 χ^2/NDF : 70336.4/31

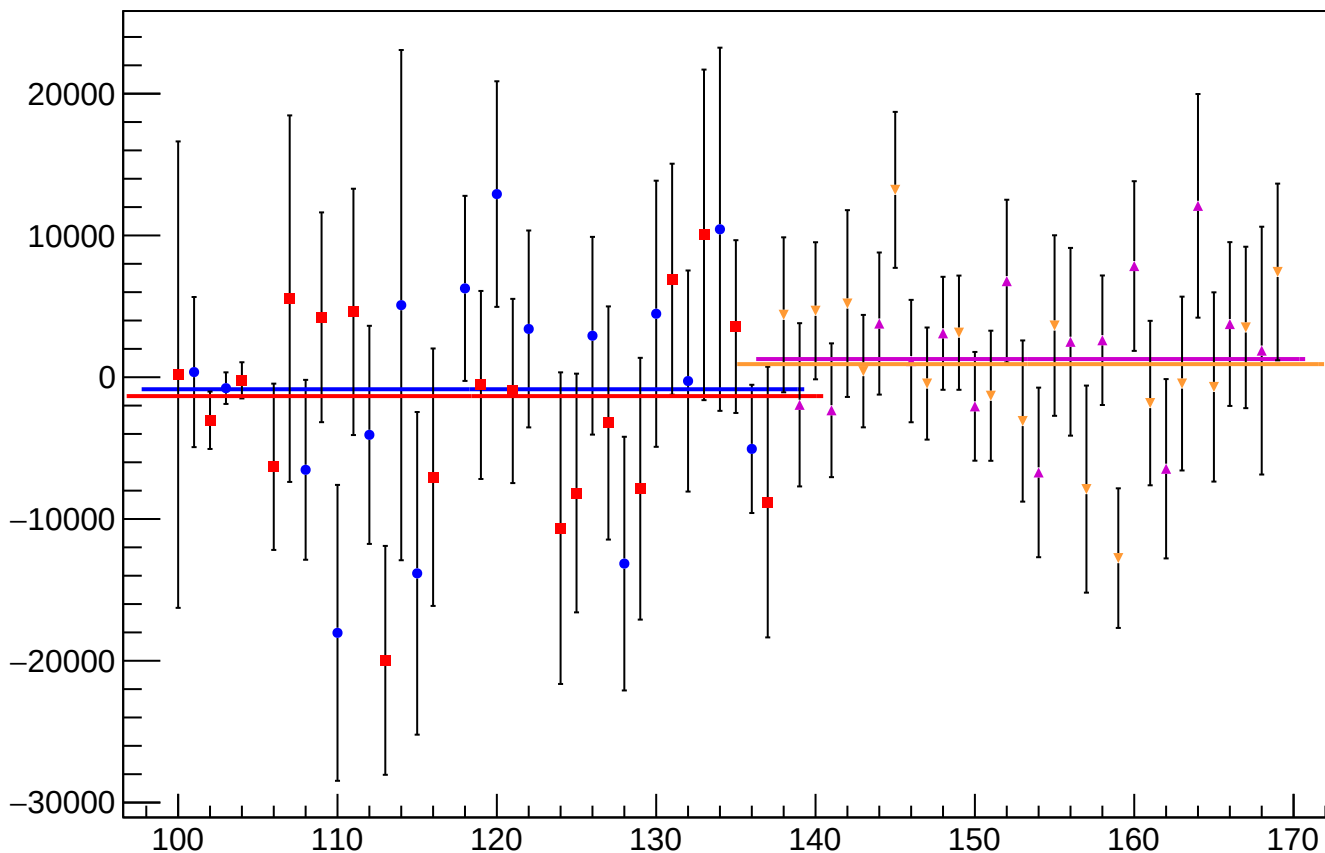
Right: 1872.844+/-0.350 χ^2/NDF : 630500.1/34

In: 1762.398+/-0.282 χ^2/NDF : 333580.3/30

Out: 1779.084+/-0.277 χ^2/NDF : 490080.5/35

All: 1770.888+/-0.198 χ^2/NDF : 825439.0/66

asym_atl1r2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -847.504 ± 962.866 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 923.862 ± 1269.962 $\chi^2/\text{NDF}: 18.6/16$

Right Out: -1331.371 ± 948.163 $\chi^2/\text{NDF}: 14.4/18$

Left In: 1282.239 ± 1360.033 $\chi^2/\text{NDF}: 9.7/14$

Left: 1090.791 ± 928.209 $\chi^2/\text{NDF}: 28.3/31$

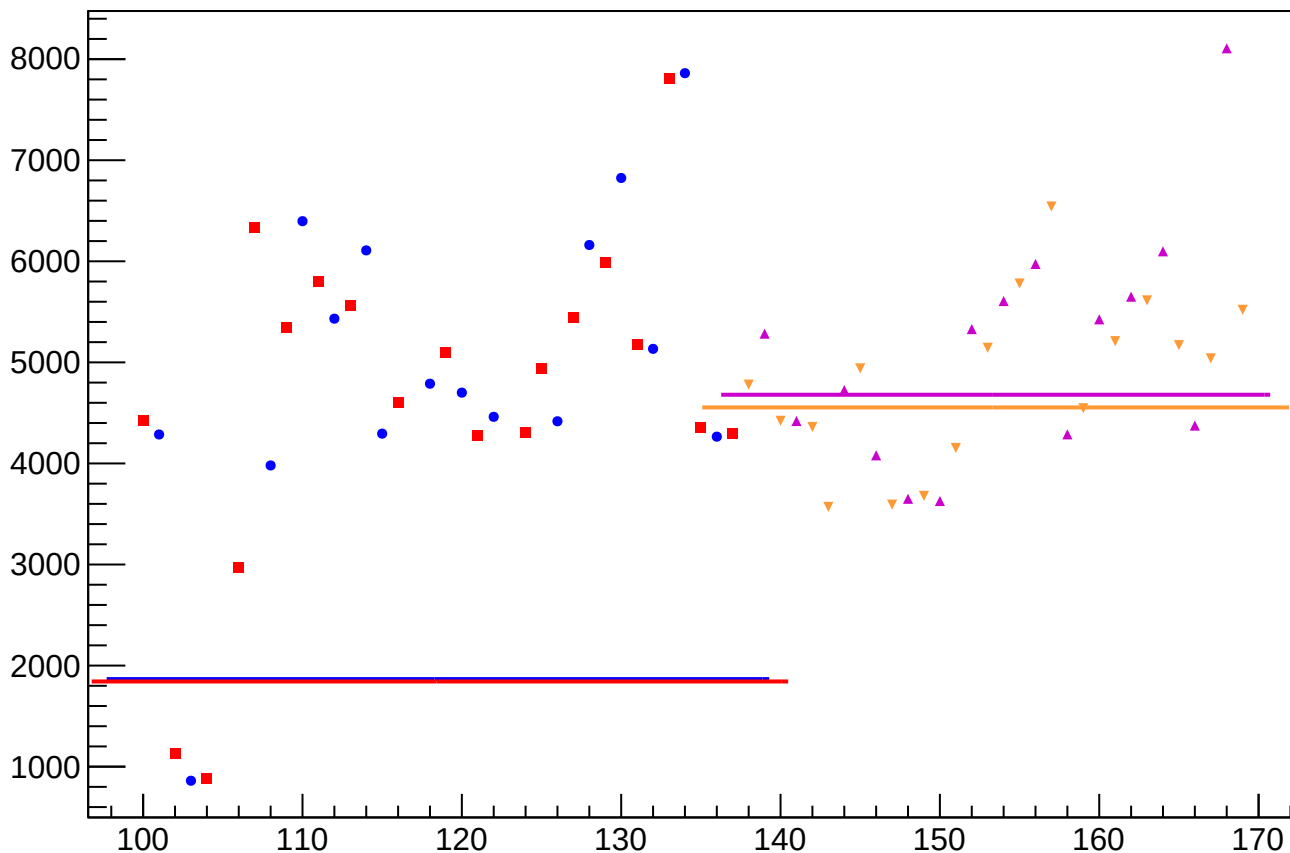
Right: -1093.160 ± 675.591 $\chi^2/\text{NDF}: 28.4/34$

In: -136.430 ± 785.856 $\chi^2/\text{NDF}: 25.2/30$

Out: -524.193 ± 759.766 $\chi^2/\text{NDF}: 35.0/35$

All: -336.855 ± 546.226 $\chi^2/\text{NDF}: 60.4/66$

asym_atl1r2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1866.251 $\pm$ 0.681 χ^2/NDF : 6850061.4/15

Left Out: 4554.089 $\pm$ 0.898 χ^2/NDF : 776441.6/16

Right Out: 1842.882 $\pm$ 0.670 χ^2/NDF : 6458456.4/18

Left In: 4679.644 $\pm$ 0.962 χ^2/NDF : 971445.7/14

Left: 4612.572 $\pm$ 0.656 χ^2/NDF : 1756992.8/31

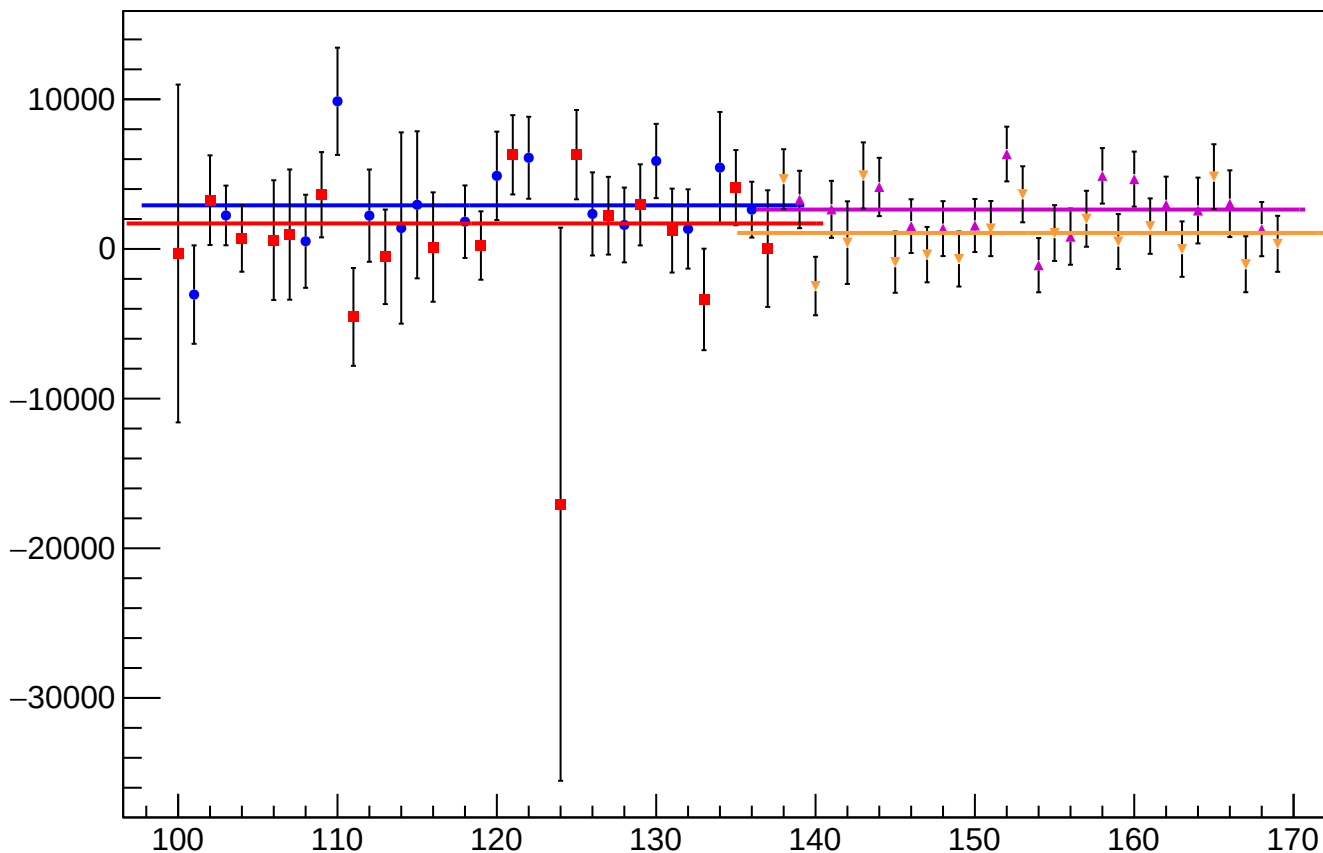
Right: 1854.387 $\pm$ 0.478 χ^2/NDF : 13309116.0/34

In: 2805.580 $\pm$ 0.556 χ^2/NDF : 13522439.2/30

Out: 2813.260 $\pm$ 0.537 χ^2/NDF : 13087750.8/35

All: 2809.550 $\pm$ 0.386 χ^2/NDF : 26610288.7/6

eigen_cor_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2913.091+/-695.062 χ^2/NDF : 12.4/15

Left Out: 1069.010+/-471.849 χ^2/NDF : 19.1/16

Right Out: 1703.523+/-706.847 χ^2/NDF : 15.8/18

Left In: 2631.835+/-487.572 χ^2/NDF : 14.5/14

Left: 1824.818+/-339.070 χ^2/NDF : 38.9/31

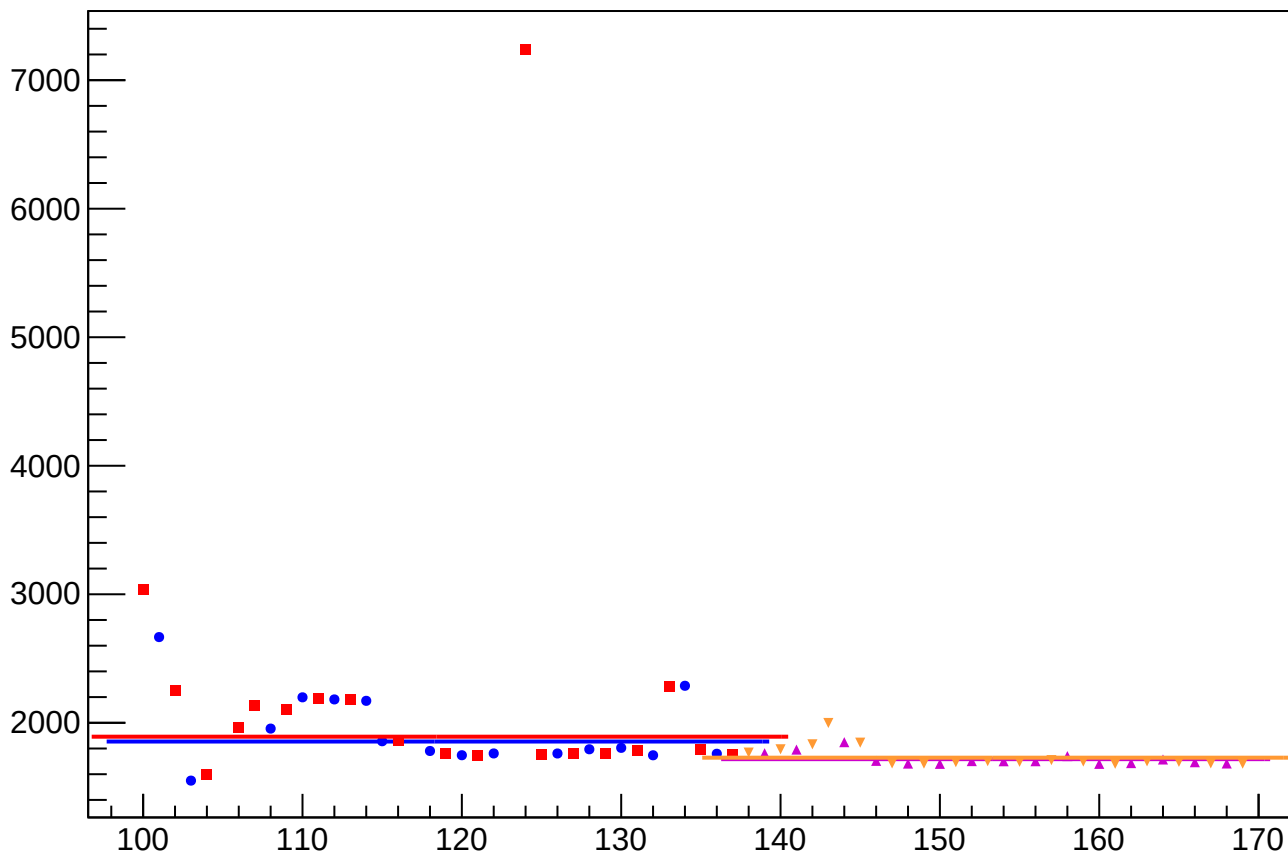
Right: 2318.475+/-495.597 χ^2/NDF : 29.8/34

In: 2724.591+/-399.157 χ^2/NDF : 27.0/30

Out: 1264.599+/-392.444 χ^2/NDF : 35.5/35

All: 1982.215+/-279.843 χ^2/NDF : 69.3/66

eigen_cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1854.314+/-0.491 χ^2/NDF : 263322.5/15

Left Out: 1728.589+/-0.334 χ^2/NDF : 51697.7/16

Right Out: 1891.927+/-0.499 χ^2/NDF : 364292.2/18

Left In: 1717.169+/-0.345 χ^2/NDF : 18072.2/14

Left: 1723.066+/-0.240 χ^2/NDF : 70336.4/31

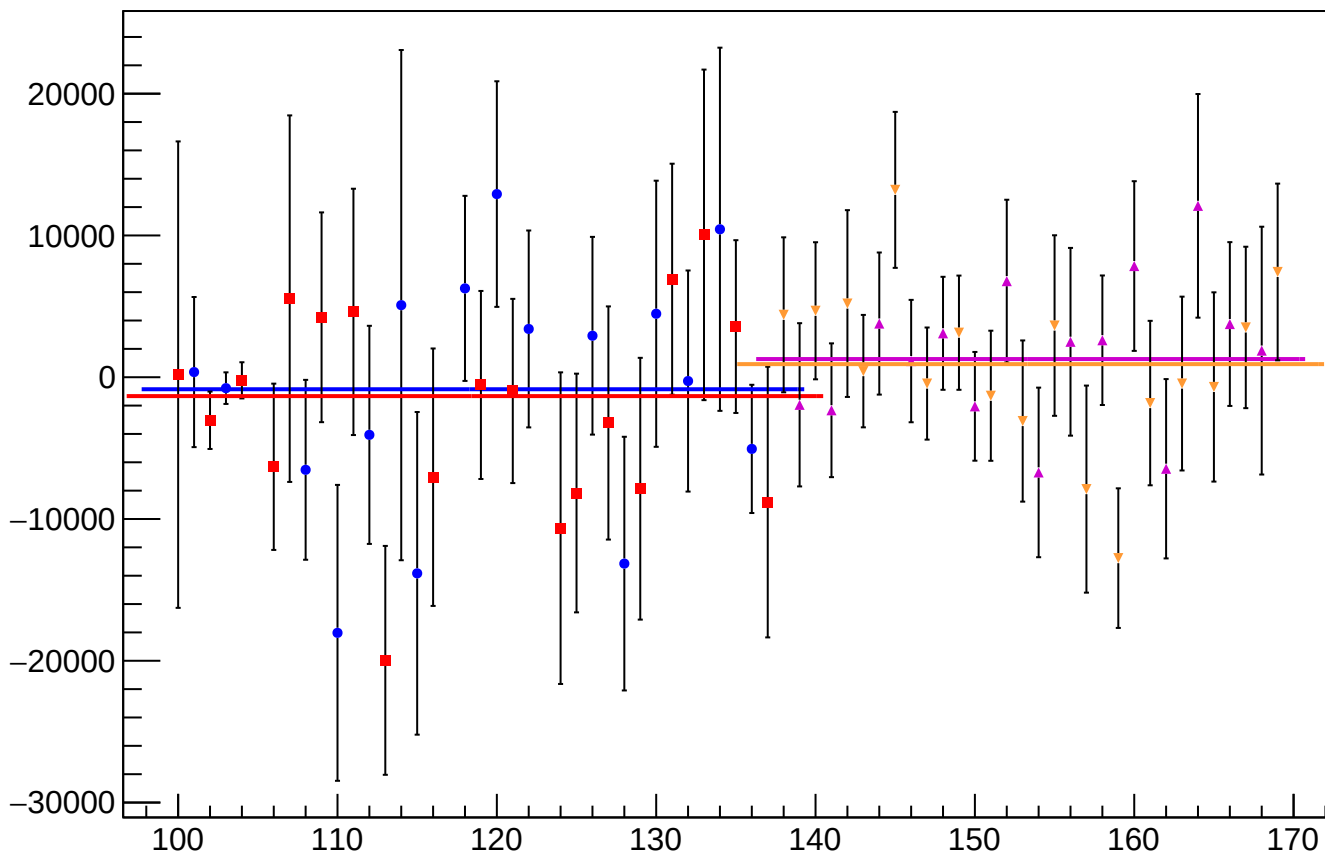
Right: 1872.844+/-0.350 χ^2/NDF : 630500.1/34

In: 1762.398+/-0.282 χ^2/NDF : 333580.3/30

Out: 1779.084+/-0.277 χ^2/NDF : 490080.5/35

All: 1770.888+/-0.198 χ^2/NDF : 825439.0/66

asym_atl1r2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -847.504+/-962.866 χ^2/NDF : 13.9/15

Left Out: 923.862+/-1269.962 χ^2/NDF : 18.6/16

Right Out: -1331.371+/-948.163 χ^2/NDF : 14.4/18

Left In: 1282.239+/-1360.033 χ^2/NDF : 9.7/14

Left: 1090.791+/-928.209 χ^2/NDF : 28.3/31

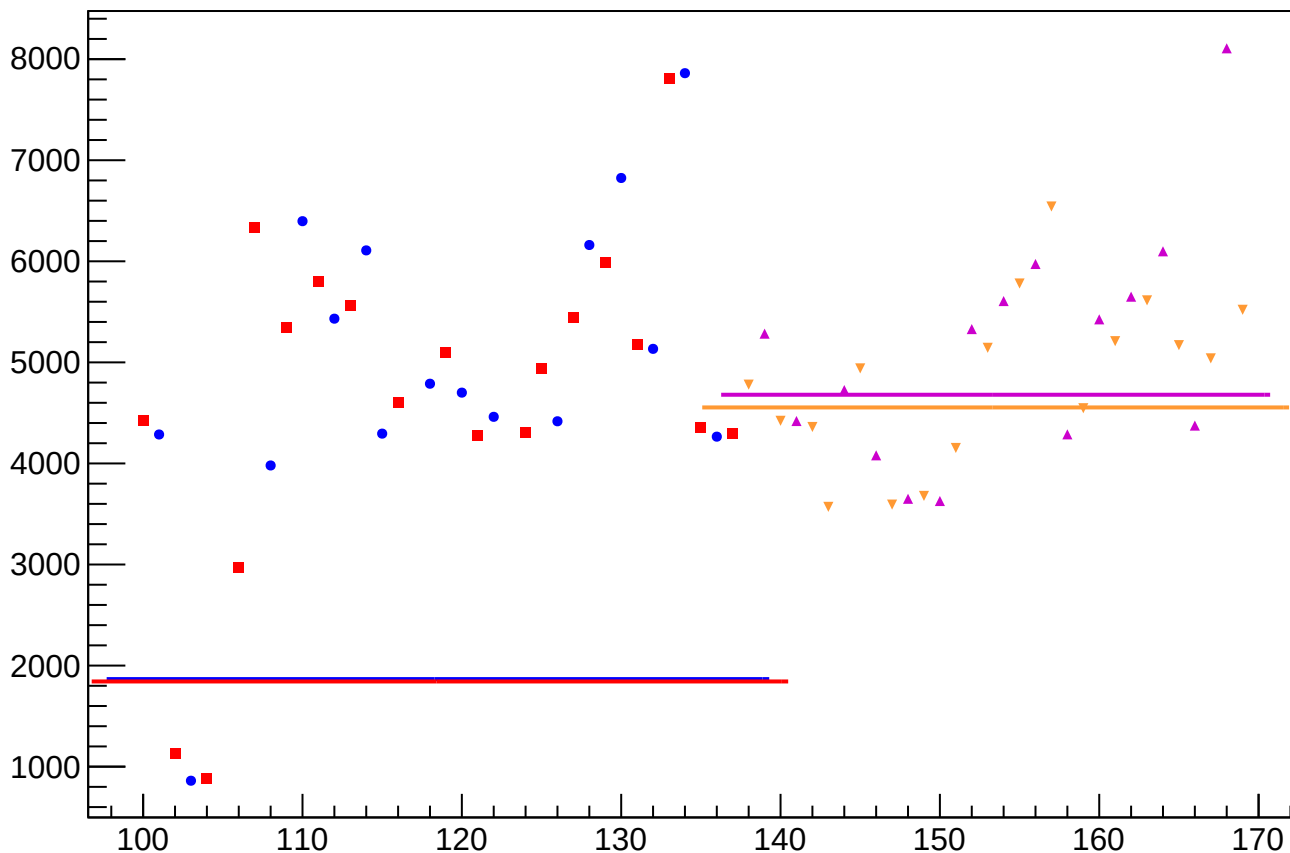
Right: -1093.160+/-675.591 χ^2/NDF : 28.4/34

In: -136.430+/-785.856 χ^2/NDF : 25.2/30

Out: -524.193+/-759.766 χ^2/NDF : 35.0/35

All: -336.855+/-546.226 χ^2/NDF : 60.4/66

asym_atl1r2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1866.251+/-0.681 χ^2/NDF : 6850061.4/15

Left Out: 4554.089+/-0.898 χ^2/NDF : 776441.6/16

Right Out: 1842.882+/-0.670 χ^2/NDF : 6458456.4/18

Left In: 4679.644+/-0.962 χ^2/NDF : 971445.7/14

Left: 4612.572+/-0.656 χ^2/NDF : 1756992.8/31

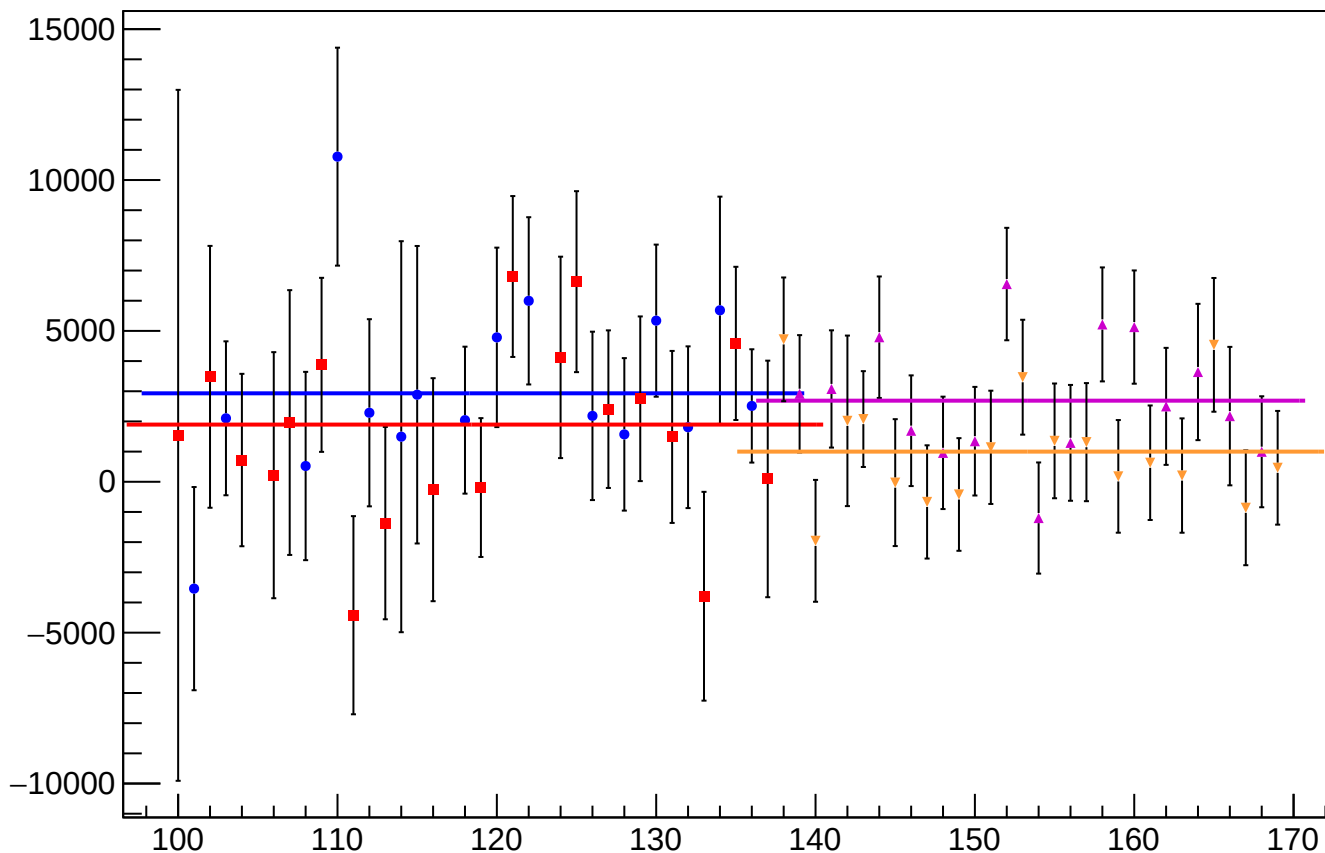
Right: 1854.387+/-0.478 χ^2/NDF : 13309116.0/34

In: 2805.580+/-0.556 χ^2/NDF : 13522439.2/30

Out: 2813.260+/-0.537 χ^2/NDF : 13087750.8/35

All: 2809.550+/-0.386 χ^2/NDF : 26610288.7/69

dit_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2931.691+/-718.305 χ^2/NDF : 13.0/15

Left Out: 999.586+/-471.190 χ^2/NDF :13.4/16

Right Out: 1895.503+/-721.954 χ^2/NDF : 17.4/18

Left In: 2687.911+/-497.724 χ^2/NDF :16.7/14

Left: 1797.548+/-342.177 χ^2/NDF : 36.2/31

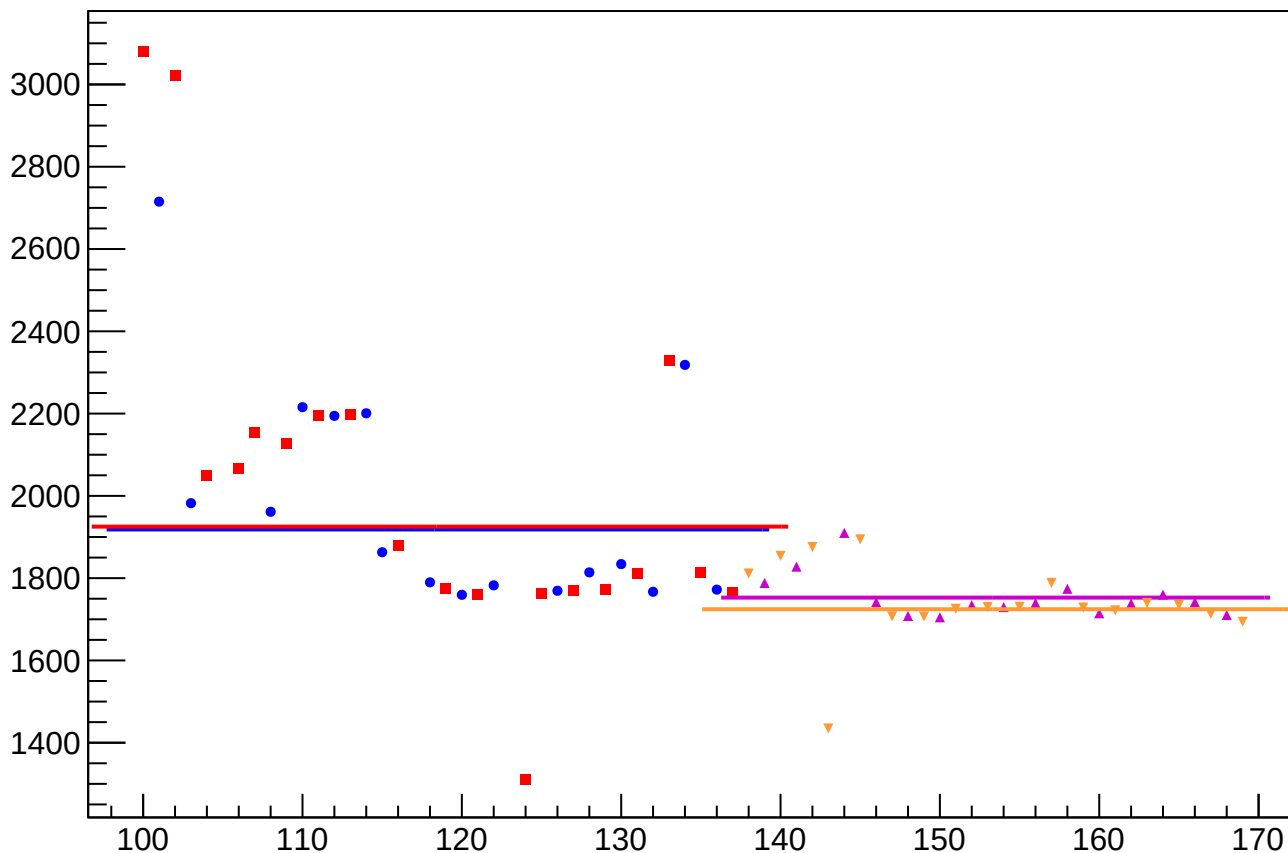
Right: 2416.221+/-509.204 χ^2/NDF : 31.4/34

In: 2766.989+/-409.108 χ^2/NDF :29.8/30

Out: 1267.214+/-394.586 χ^2/NDF :31.8/35

All: 1990.010+/-284.010 χ^2/NDF : 68.6/66

dit_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1918.367+/-0.508 χ^2/NDF : 215592.7/15

Left Out: 1724.451+/-0.333 χ^2/NDF :100534.3/16

Right Out: 1925.260+/-0.510 χ^2/NDF : 339095.4/18

Left In: 1752.703+/-0.352 χ^2/NDF :21439.9/14

Left: 1737.804+/-0.242 χ^2/NDF : 125372.6/31

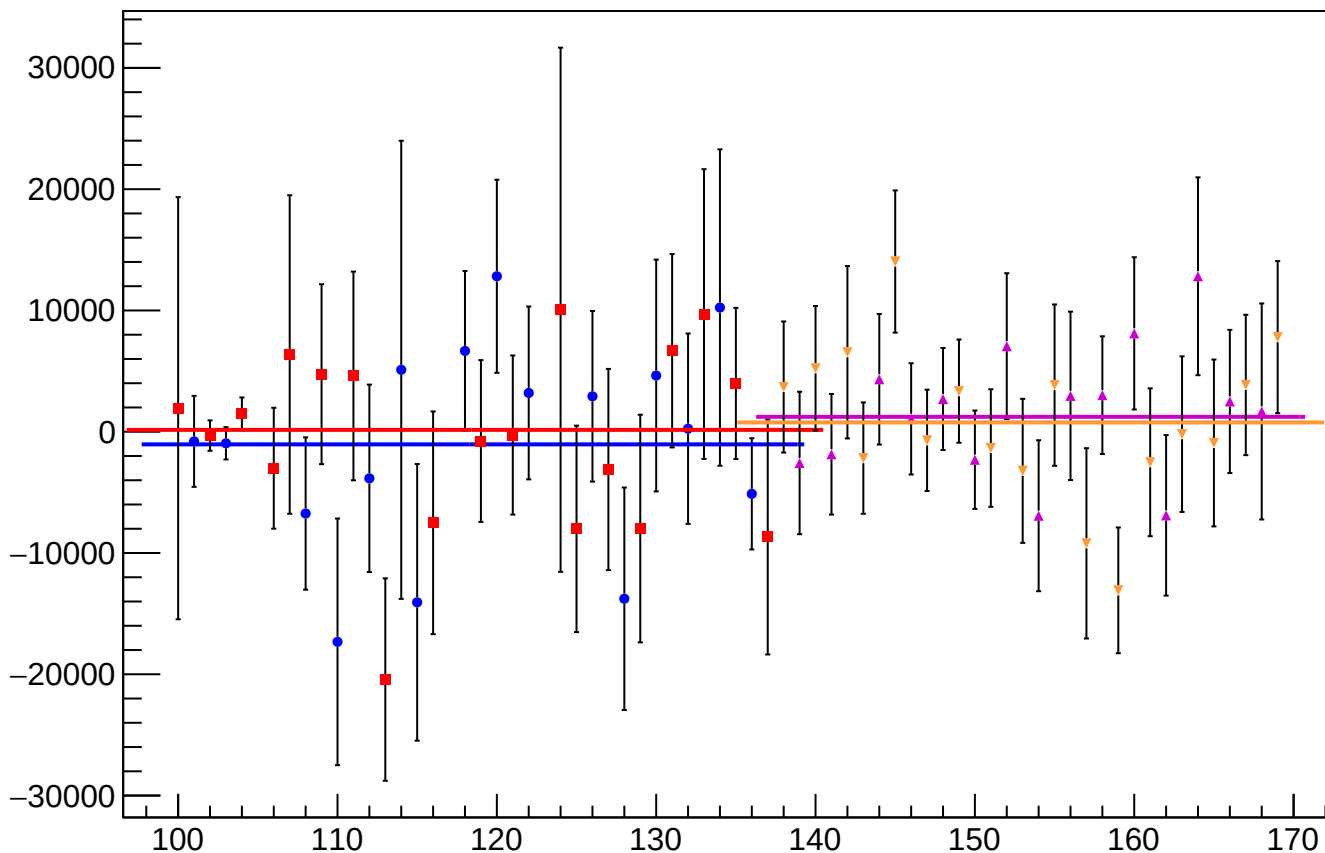
Right: 1921.799+/-0.360 χ^2/NDF : 554779.7/34

In: 1806.442+/-0.289 χ^2/NDF :308906.0/30

Out: 1784.506+/-0.279 χ^2/NDF :548264.1/35

All: 1795.075+/-0.201 χ^2/NDF : 860149.7/66

asym_atl1r2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1041.908 $\pm$ 1072.406 χ^2 /NDF: 13.8/15

Left Out: 767.639 $\pm$ 1341.515 χ^2 /NDF:19.3/16

Right Out: 153.619 $\pm$ 835.656 χ^2 /NDF: 13.7/18

Left In: 1228.819 $\pm$ 1428.571 χ^2 /NDF:9.7/14

Left: 983.749 $\pm$ 977.923 χ^2 /NDF: 29.0/31

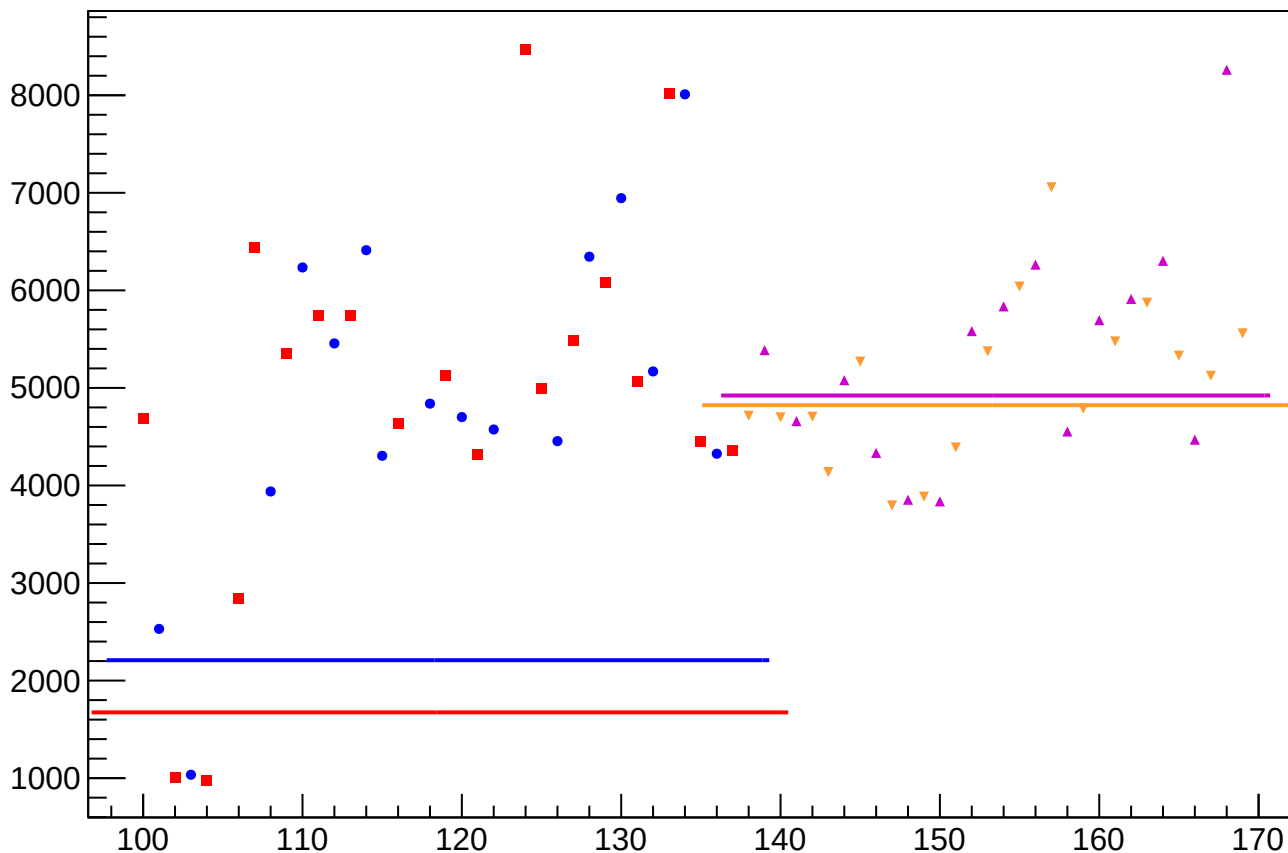
Right: -298.053 $\pm$ 659.161 χ^2 /NDF: 28.3/34

In: -223.491 $\pm$ 857.643 χ^2 /NDF:25.1/30

Out: 325.271 $\pm$ 709.297 χ^2 /NDF:33.1/35

All: 102.381 $\pm$ 546.588 χ^2 /NDF: 58.5/66

asym_atl1r2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 2208.912 $\pm$ 0.758 χ^2 /NDF: 5499011.4/15

Left Out: 4823.188 $\pm$ 0.949 χ^2 /NDF: 659637.7/16

Right Out: 1674.162 $\pm$ 0.591 χ^2 /NDF: 6853212.9/18

Left In: 4922.394 $\pm$ 1.010 χ^2 /NDF: 903658.0/14

Left: 4869.676 $\pm$ 0.691 χ^2 /NDF: 1568421.0/31

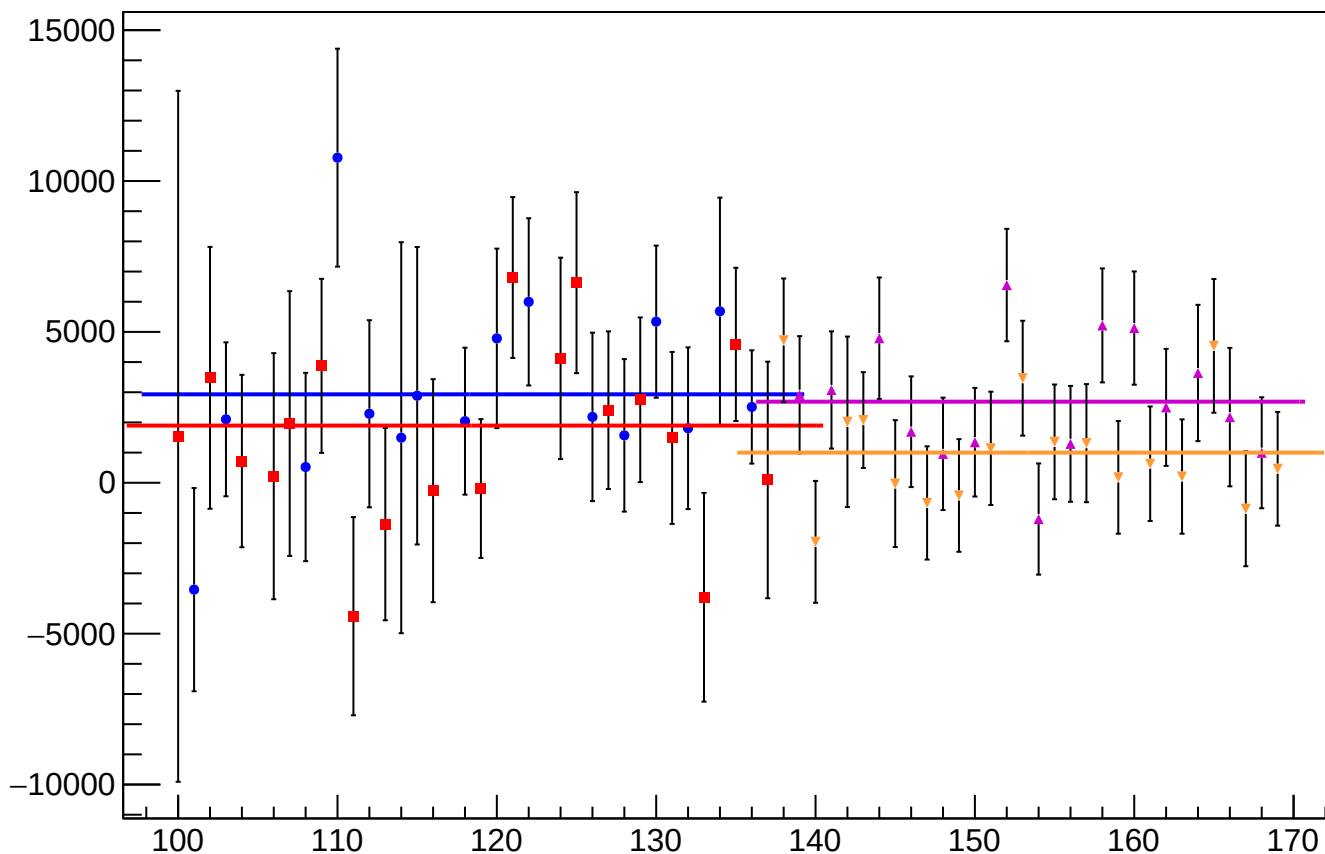
Right: 1876.192 $\pm$ 0.466 χ^2 /NDF: 12661639.3/34

In: 3186.907 $\pm$ 0.606 χ^2 /NDF: 11017703.0/30

Out: 2554.483 $\pm$ 0.502 χ^2 /NDF: 15452346.6/35

All: 2811.354 $\pm$ 0.386 χ^2 /NDF: 27115846.0/66

eigen_dit_asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 2931.693 $\pm$ 718.305 χ^2 /NDF: 13.0/15

Left Out: 999.577 $\pm$ 471.190 χ^2 /NDF:13.4/16

Right Out: 1895.508 $\pm$ 721.953 χ^2 /NDF: 17.4/18

Left In: 2687.914 $\pm$ 497.724 χ^2 /NDF:16.7/14

Left: 1797.545 $\pm$ 342.178 χ^2 /NDF: 36.2/31

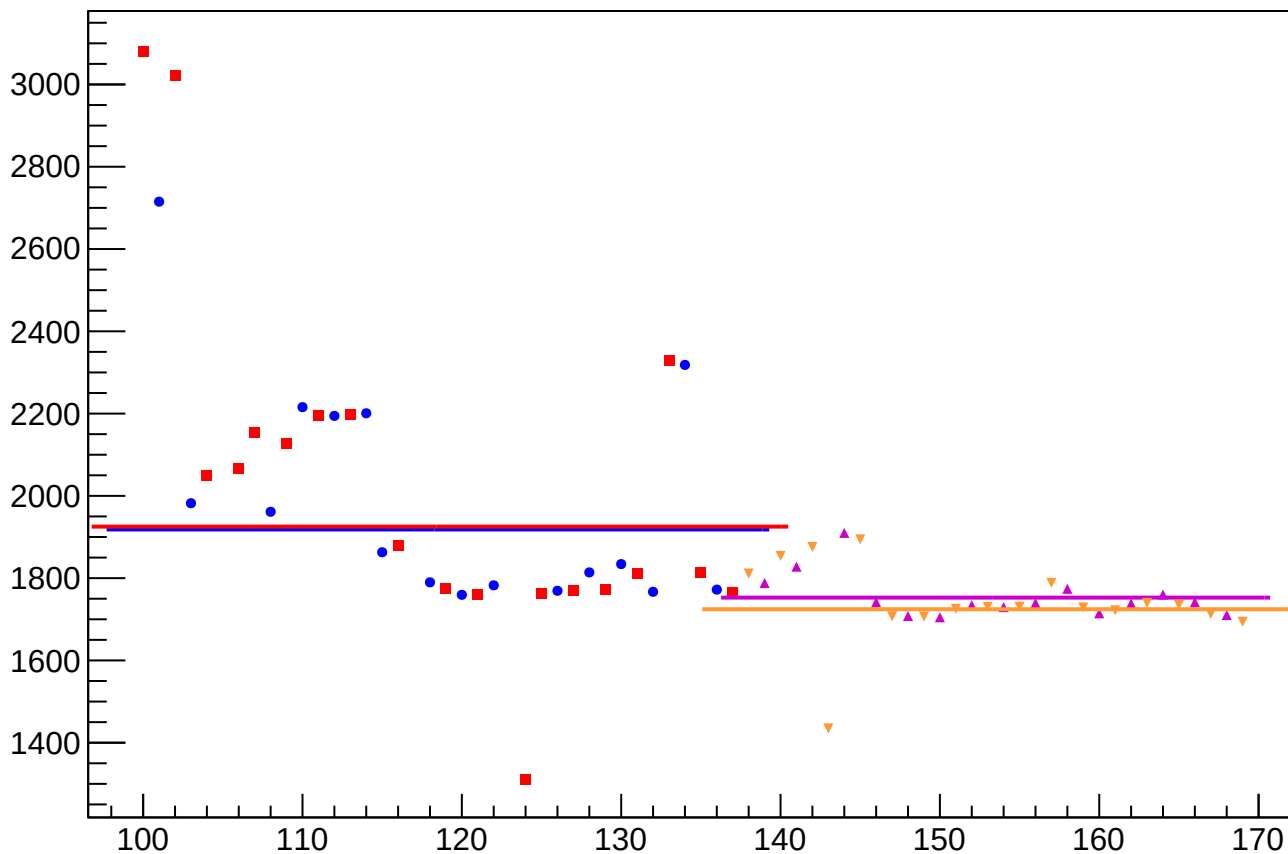
Right: 2416.225 $\pm$ 509.203 χ^2 /NDF: 31.4/34

In: 2766.992 $\pm$ 409.108 χ^2 /NDF:29.8/30

Out: 1267.210 $\pm$ 394.586 χ^2 /NDF:31.8/35

All: 1990.009 $\pm$ 284.010 χ^2 /NDF: 68.6/66

eigen_dit_asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 1918.367 $\pm$ 0.508 χ^2 /NDF: 215592.7/15

Left Out: 1724.452 $\pm$ 0.333 χ^2 /NDF: 100533.4/16

Right Out: 1925.259 $\pm$ 0.510 χ^2 /NDF: 339094.4/18

Left In: 1752.704 $\pm$ 0.352 χ^2 /NDF: 21439.8/14

Left: 1737.805 $\pm$ 0.242 χ^2 /NDF: 125371.6/31

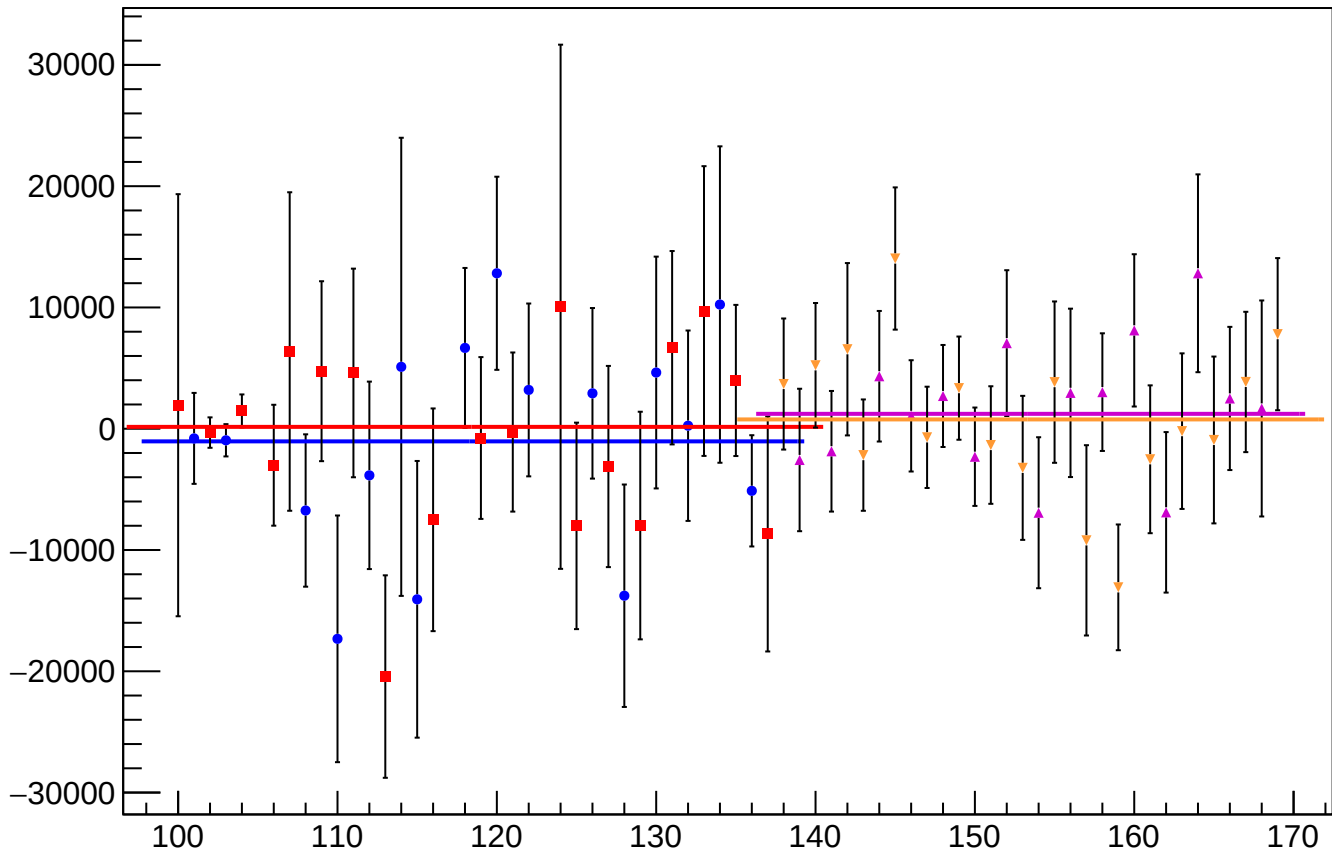
Right: 1921.798 $\pm$ 0.360 χ^2 /NDF: 554778.8/34

In: 1806.443 $\pm$ 0.289 χ^2 /NDF: 308904.4/30

Out: 1784.506 $\pm$ 0.279 χ^2 /NDF: 548260.4/35

All: 1795.076 $\pm$ 0.201 χ^2 /NDF: 860144.5/66

asym_atl1r2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1041.906 $\pm$ 1072.405 χ^2 /NDF: 13.8/15

Left Out: 767.636 $\pm$ 1341.517 χ^2 /NDF:19.3/16

Right Out: 153.614 $\pm$ 835.655 χ^2 /NDF: 13.7/18

Left In: 1228.817 $\pm$ 1428.573 χ^2 /NDF:9.7/14

Left: 983.747 $\pm$ 977.925 χ^2 /NDF: 29.0/31

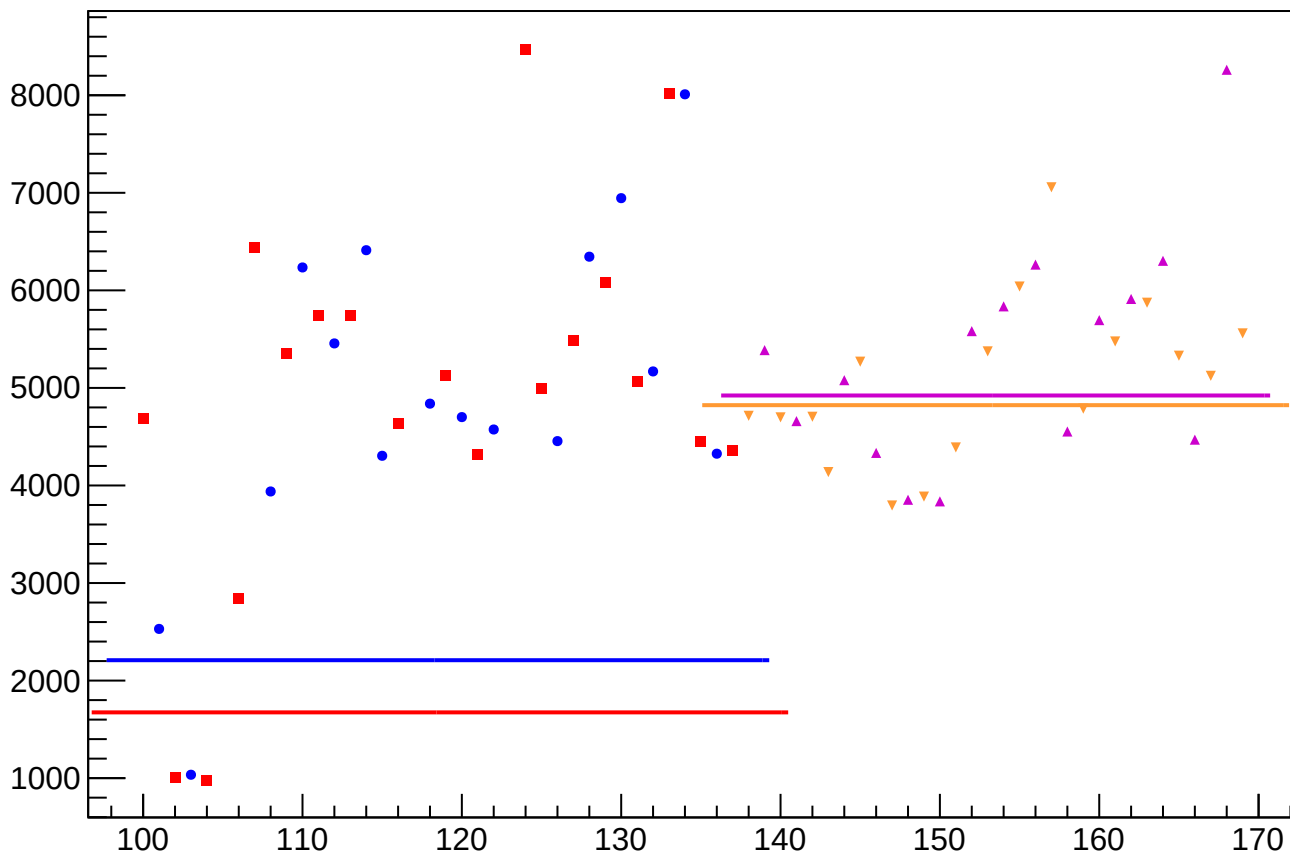
Right: -298.056 $\pm$ 659.161 χ^2 /NDF: 28.3/34

In: -223.493 $\pm$ 857.643 χ^2 /NDF:25.1/30

Out: 325.266 $\pm$ 709.297 χ^2 /NDF:33.1/35

All: 102.377 $\pm$ 546.588 χ^2 /NDF: 58.5/66

asym_atl1r2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2208.911+/-0.758 χ^2/NDF : 5499004.2/15

Left Out: 4823.196+/-0.949 χ^2/NDF : 659637.2/16

Right Out: 1674.162+/-0.591 χ^2/NDF : 6853204.8/18

Left In: 4922.402+/-1.010 χ^2/NDF : 903657.7/14

Left: 4869.684+/-0.691 χ^2/NDF : 1568420.2/31

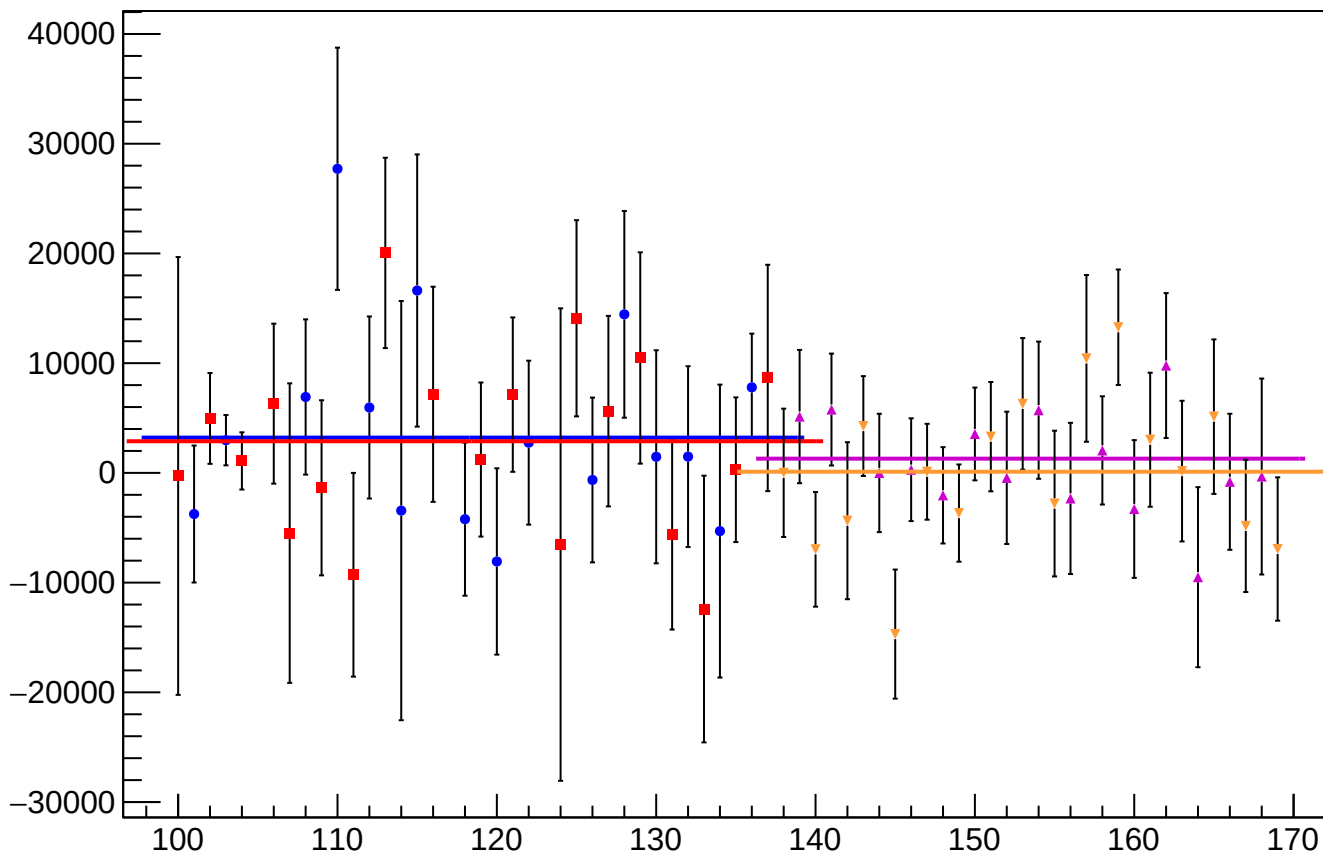
Right: 1876.191+/-0.466 χ^2/NDF : 12661624.0/34

In: 3186.906+/-0.606 χ^2/NDF : 11017718.8/30

Out: 2554.483+/-0.502 χ^2/NDF : 15452363.5/35

All: 2811.353+/-0.386 χ^2/NDF : 27115879.2/66

asym_atl1r2_avg_mean vs Slug, Sign Corrected



Right In: 3215.695 $\pm$ 1539.262 χ^2 /NDF: 13.8/15

Left Out: 107.737 $\pm$ 1370.362 χ^2 /NDF:22.5/16

Right Out: 2883.411 $\pm$ 1552.120 χ^2 /NDF: 13.4/18

Left In: 1296.612 $\pm$ 1458.148 χ^2 /NDF:7.1/14

Left: 665.312 $\pm$ 998.585 χ^2 /NDF: 29.9/31

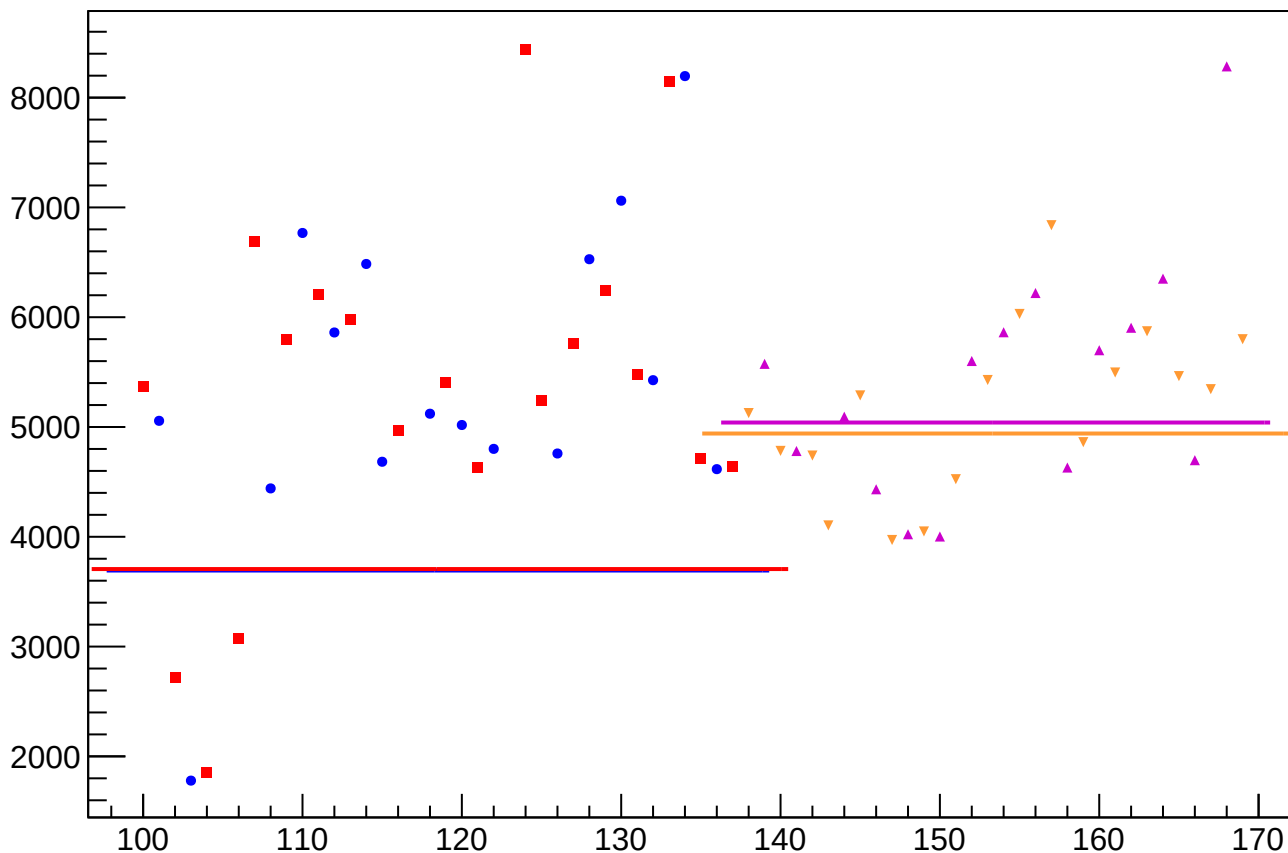
Right: 3050.935 $\pm$ 1092.940 χ^2 /NDF: 27.2/34

In: 2204.259 $\pm$ 1058.581 χ^2 /NDF:21.7/30

Out: 1323.612 $\pm$ 1027.272 χ^2 /NDF:37.7/35

All: 1750.720 $\pm$ 737.211 χ^2 /NDF: 59.7/66

asym_atl1r2_avg_rms vs Slug, Sign Corrected



Right In: 3692.815 $\pm$ 1.088 χ^2/NDF : 2885658.0/15

Left Out: 4940.606 $\pm$ 0.969 χ^2/NDF : 579154.3/16

Right Out: 3706.081 $\pm$ 1.087 χ^2/NDF : 2684528.0/18

Left In: 5040.712 $\pm$ 1.031 χ^2/NDF : 784113.0/14

Left: 4987.556 $\pm$ 0.706 χ^2/NDF : 1368272.8/31

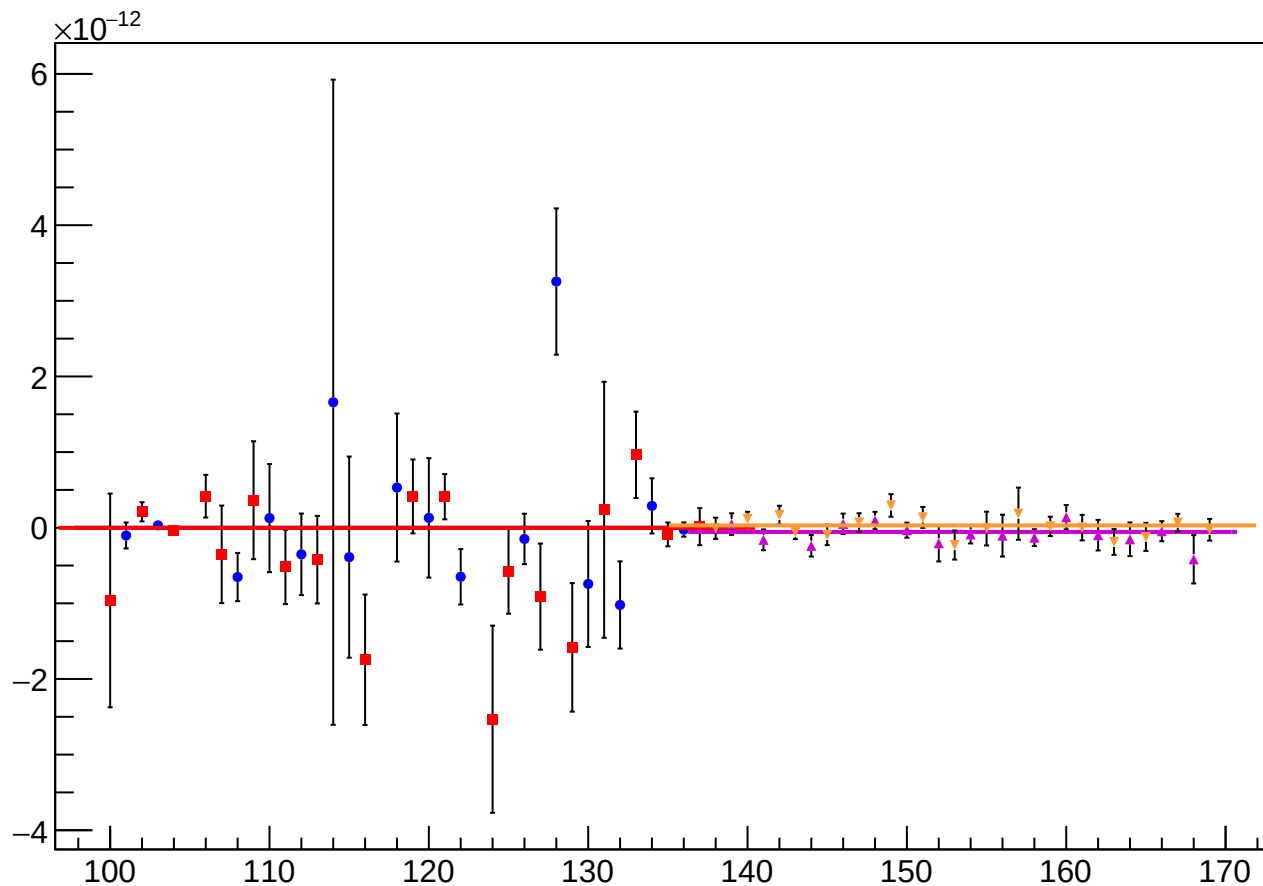
Right: 3699.460 $\pm$ 0.769 χ^2/NDF : 5570260.4/34

In: 4403.213 $\pm$ 0.749 χ^2/NDF : 4478053.9/30

Out: 4393.722 $\pm$ 0.723 χ^2/NDF : 3982725.1/35

All: 4398.304 $\pm$ 0.520 χ^2/NDF : 8460862.1/60

asym_atl1r2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 25.4/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 12.4/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 28.2/18

Left In: -0.000 ± 0.000 χ^2/NDF : 9.1/14

Left: -0.000 ± 0.000 χ^2/NDF : 24.5/31

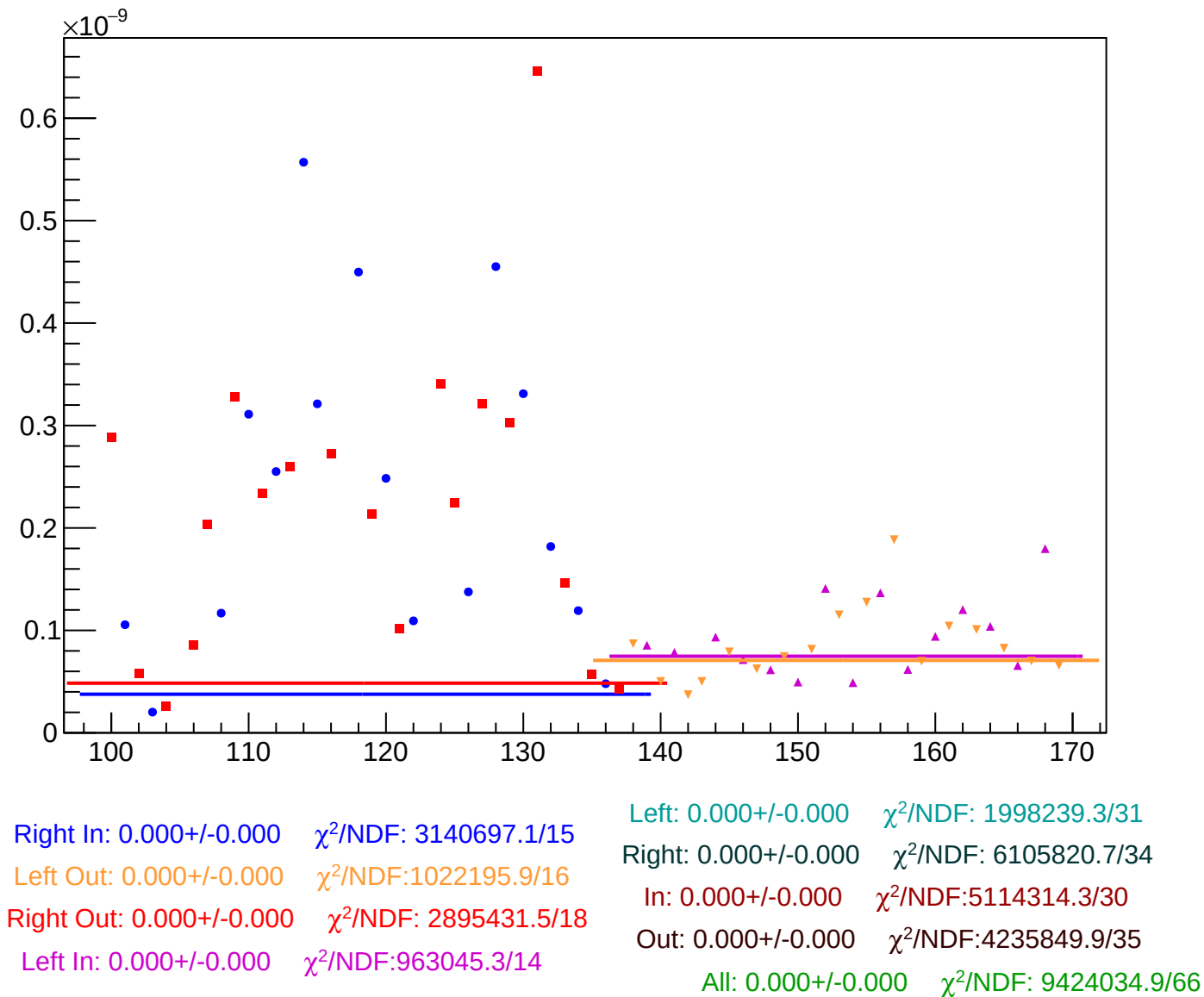
Right: -0.000 ± 0.000 χ^2/NDF : 53.6/34

In: -0.000 ± 0.000 χ^2/NDF : 35.6/30

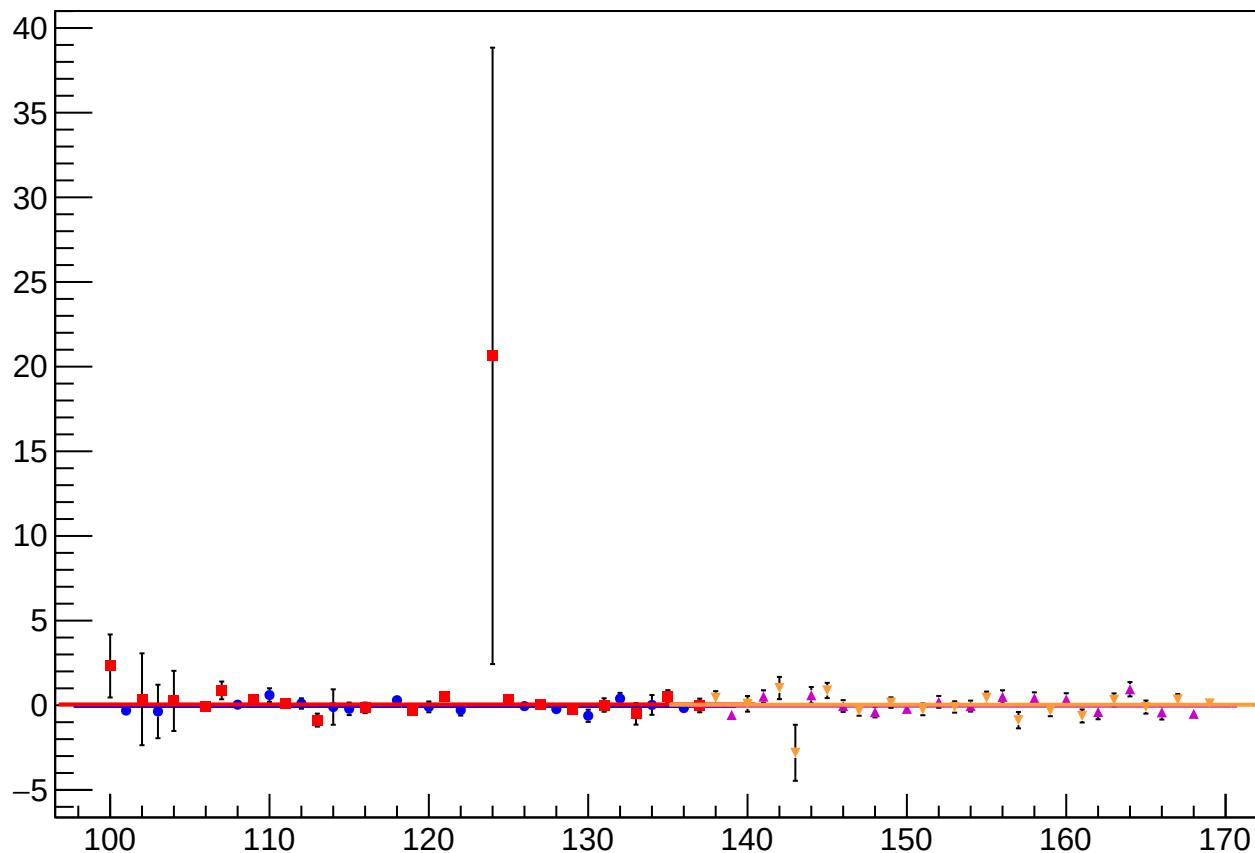
Out: 0.000 ± 0.000 χ^2/NDF : 41.0/35

All: -0.000 ± 0.000 χ^2/NDF : 78.1/66

asym_atl1r2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



asym_atl1r2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.041 ± 0.078 $\chi^2/\text{NDF}: 11.7/15$

Left Out: 0.033 ± 0.088 $\chi^2/\text{NDF}: 22.5/16$

Right Out: 0.049 ± 0.079 $\chi^2/\text{NDF}: 23.0/18$

Left In: -0.022 ± 0.090 $\chi^2/\text{NDF}: 24.0/14$

Left: 0.006 ± 0.063 $\chi^2/\text{NDF}: 46.7/31$

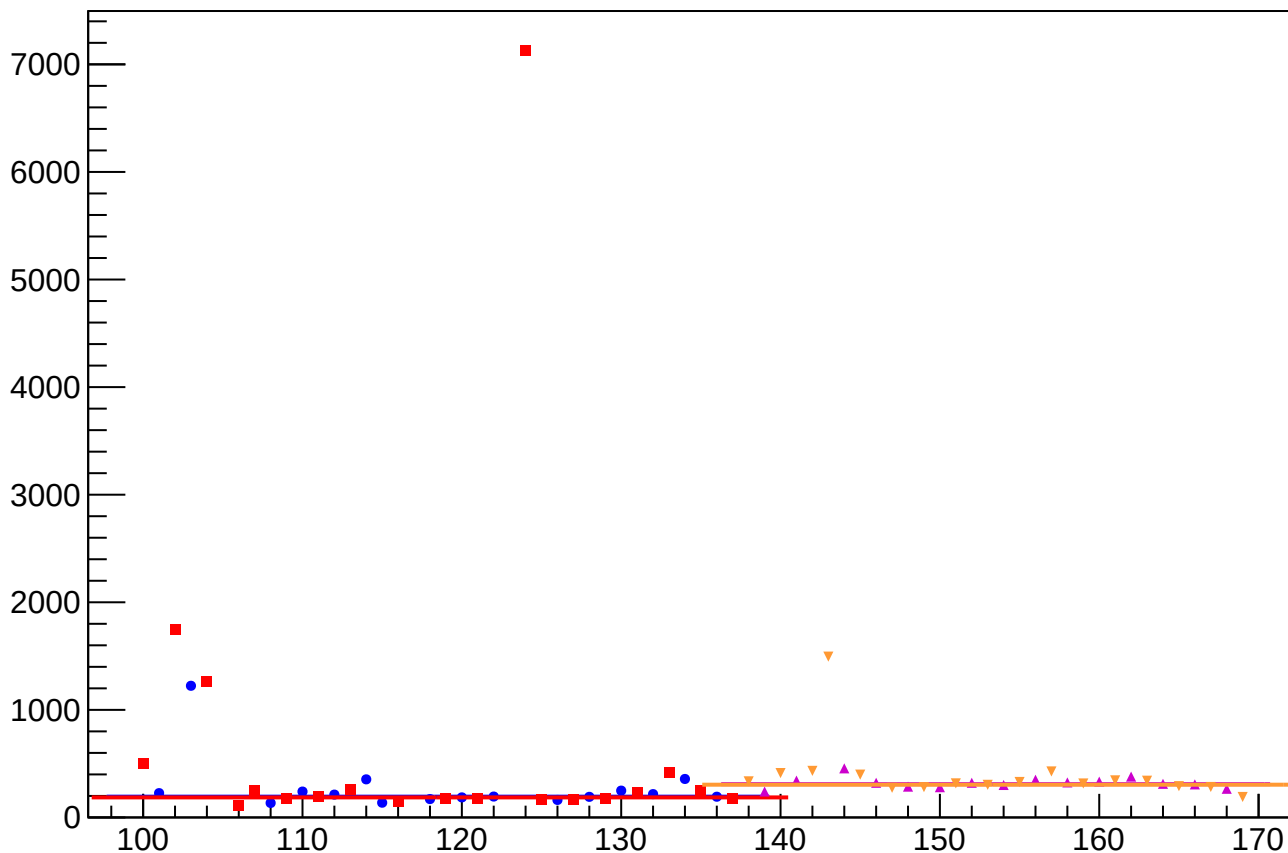
Right: 0.004 ± 0.055 $\chi^2/\text{NDF}: 35.4/34$

In: -0.033 ± 0.059 $\chi^2/\text{NDF}: 35.7/30$

Out: 0.042 ± 0.059 $\chi^2/\text{NDF}: 45.6/35$

All: 0.005 ± 0.042 $\chi^2/\text{NDF}: 82.1/66$

asym_atl1r2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 193.248 ± 0.055 $\chi^2/\text{NDF}: 1408397.0/15$

Left Out: 304.447 ± 0.062 $\chi^2/\text{NDF}: 2114991.5/16$

Right Out: 186.379 ± 0.056 $\chi^2/\text{NDF}: 2479083.9/18$

Left In: 309.551 ± 0.064 $\chi^2/\text{NDF}: 491377.5/14$

Left: 306.930 ± 0.045 $\chi^2/\text{NDF}: 2609653.5/31$

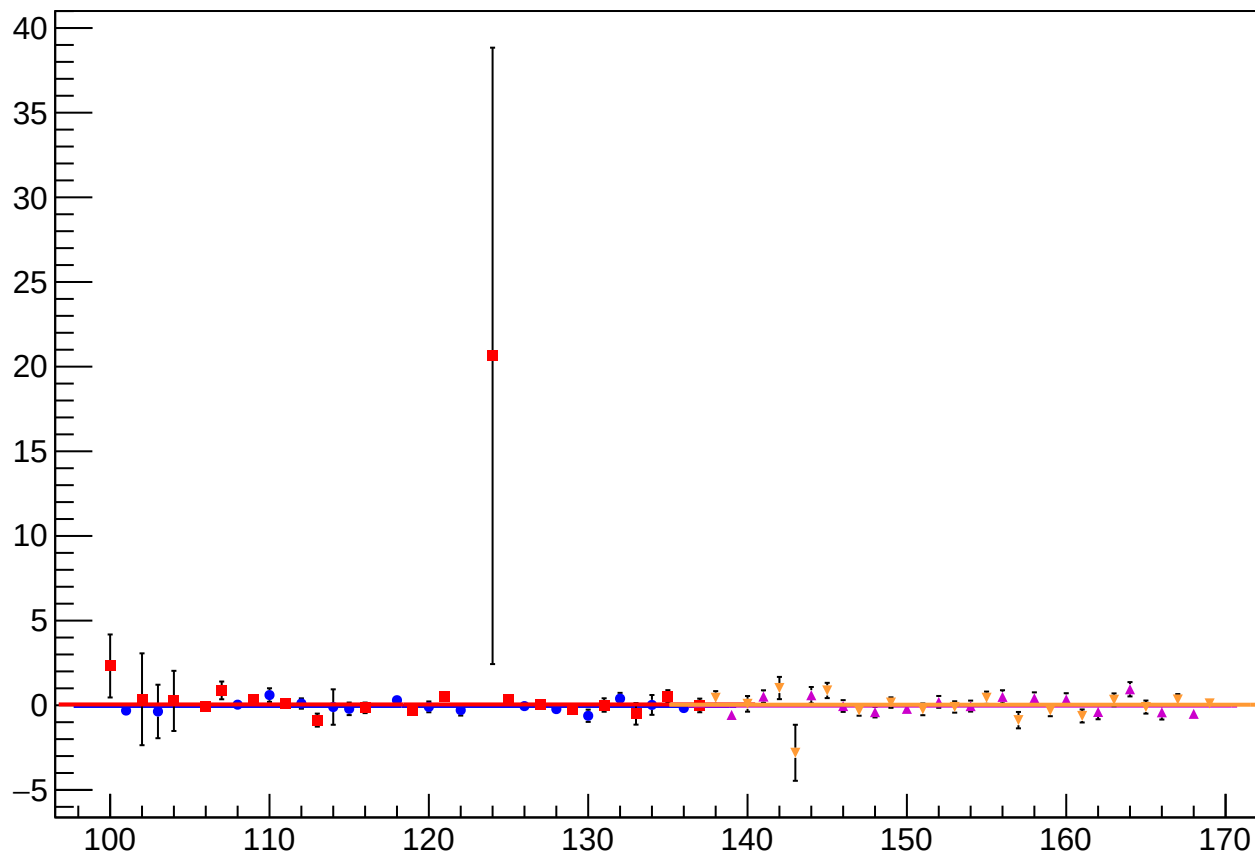
Right: 189.859 ± 0.039 $\chi^2/\text{NDF}: 3895183.9/34$

In: 242.786 ± 0.042 $\chi^2/\text{NDF}: 3805701.3/30$

Out: 239.013 ± 0.041 $\chi^2/\text{NDF}: 6596149.8/35$

All: 240.891 ± 0.029 $\chi^2/\text{NDF}: 10405970.9/66$

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.041 ± 0.078 χ^2/NDF : 11.7/15

Left Out: 0.033 ± 0.088 χ^2/NDF : 22.5/16

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.022 ± 0.090 χ^2/NDF : 24.0/14

Left: 0.006 ± 0.063 χ^2/NDF : 46.7/31

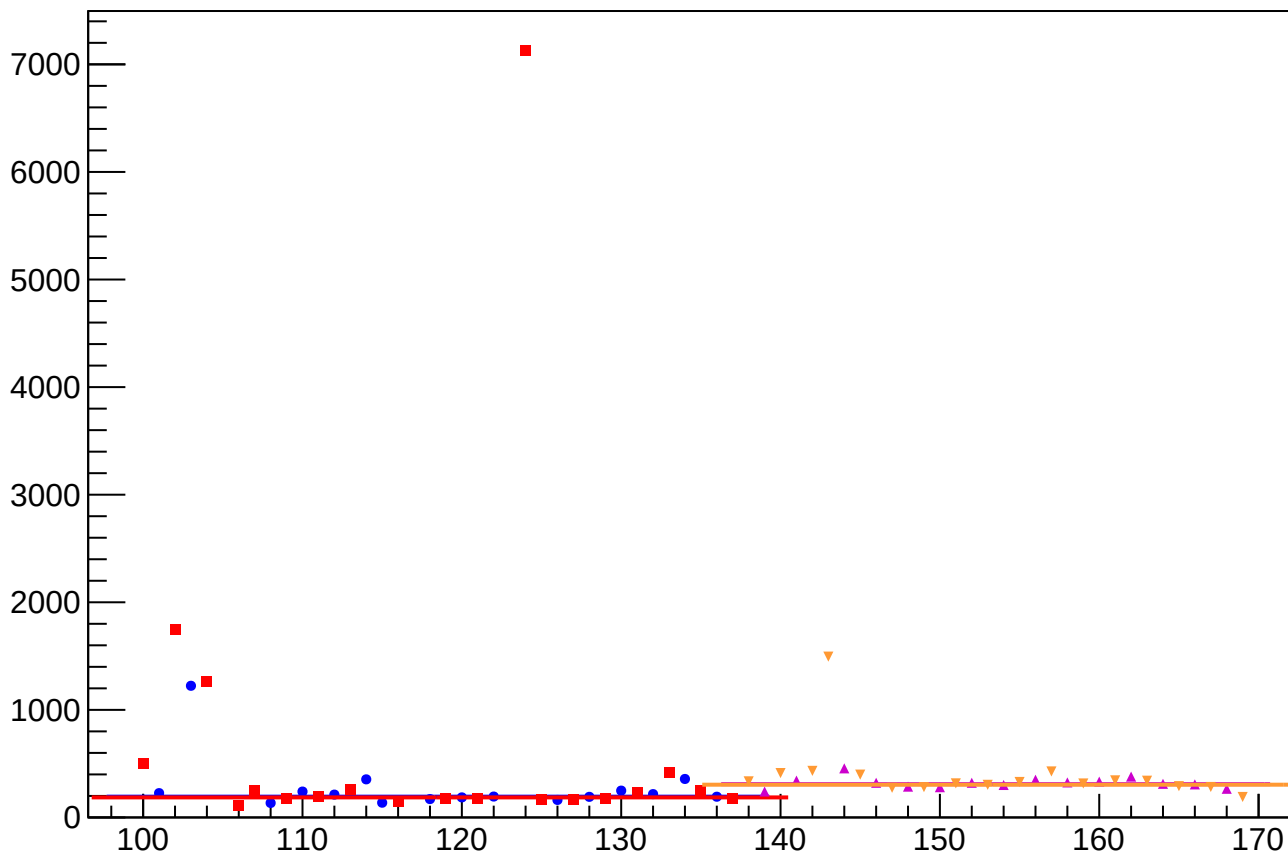
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.033 ± 0.059 χ^2/NDF : 35.7/30

Out: 0.042 ± 0.059 χ^2/NDF : 45.6/35

All: 0.005 ± 0.042 χ^2/NDF : 82.1/66

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 193.248 ± 0.055 χ^2/NDF : 1408397.0/15

Left Out: 304.447 ± 0.062 χ^2/NDF : 2114991.5/16

Right Out: 186.379 ± 0.056 χ^2/NDF : 2479083.9/18

Left In: 309.551 ± 0.064 χ^2/NDF : 491377.5/14

Left: 306.930 ± 0.045 χ^2/NDF : 2609653.5/31

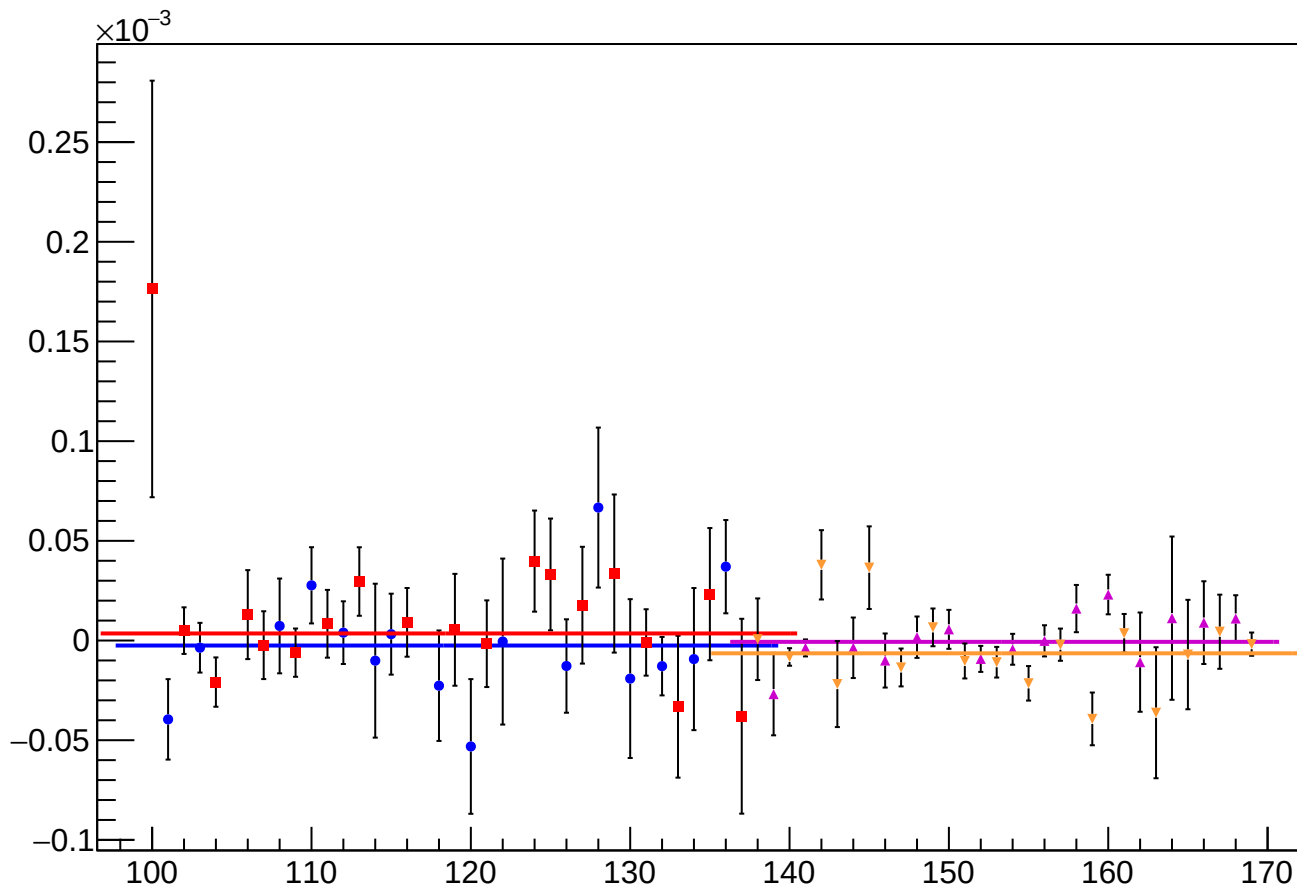
Right: 189.859 ± 0.039 χ^2/NDF : 3895183.9/34

In: 242.786 ± 0.042 χ^2/NDF : 3805701.3/30

Out: 239.013 ± 0.041 χ^2/NDF : 6596149.8/35

All: 240.891 ± 0.029 χ^2/NDF : 10405970.9/66

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 15.8/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 27.0/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 16.3/18

Left In: -0.000 ± 0.000 χ^2/NDF : 14.2/14

Left: -0.000 ± 0.000 χ^2/NDF : 44.2/31

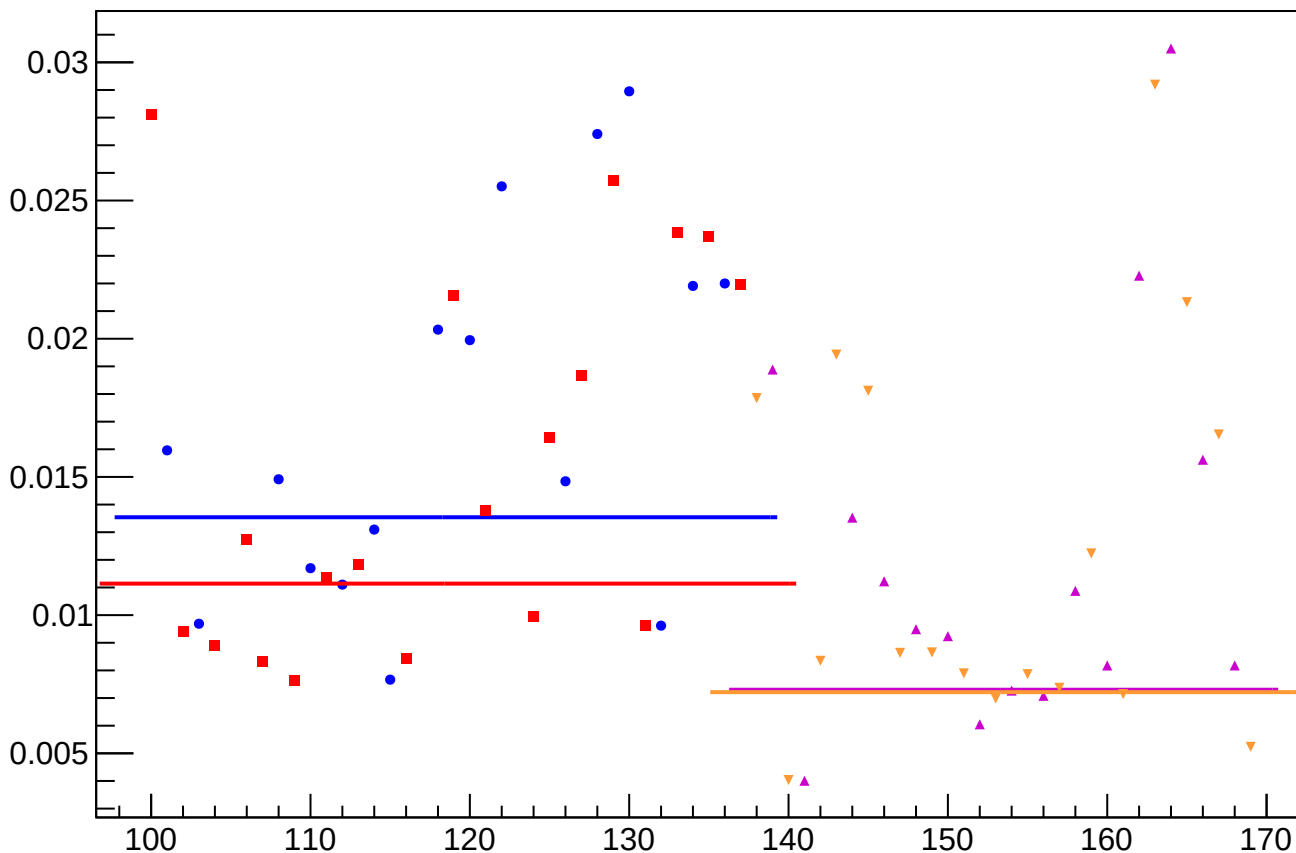
Right: 0.000 ± 0.000 χ^2/NDF : 32.9/34

In: -0.000 ± 0.000 χ^2/NDF : 30.2/30

Out: -0.000 ± 0.000 χ^2/NDF : 47.2/35

All: -0.000 ± 0.000 χ^2/NDF : 78.7/66

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1877615.1/15

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:5350058.4/16

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 1887740.8/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:4462475.5/14

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 9813926.3/31

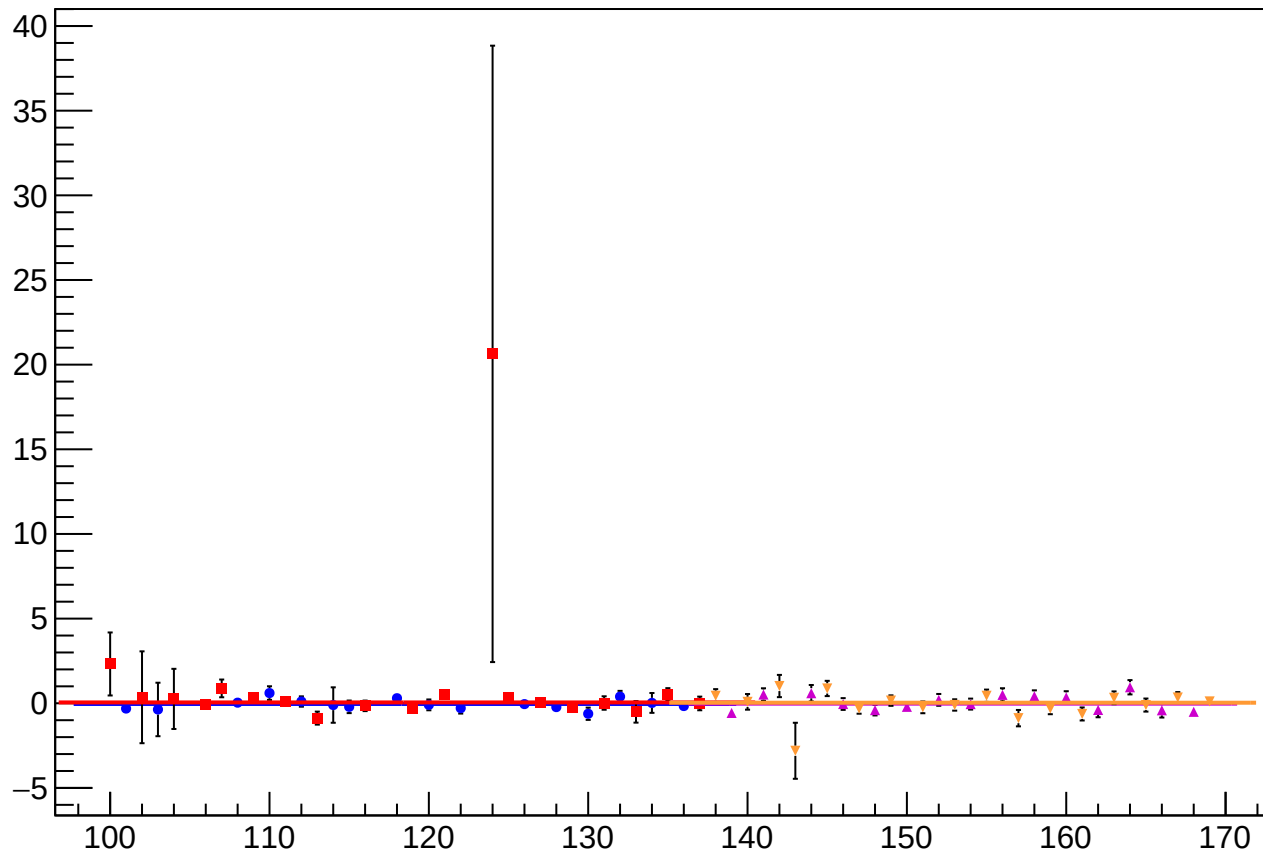
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 3997435.7/34

In: 0.008 $\pm$ 0.000 χ^2 /NDF:8532195.3/30

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:8467584.6/35

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 17019537.6/66

asym_atl1r2_avg_eigen_dit_vs_slug, Sign Corrected



Right In: -0.041 ± 0.078 χ^2/NDF : 11.7/15

Left Out: 0.033 ± 0.088 χ^2/NDF : 22.5/16

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.022 ± 0.090 χ^2/NDF : 24.0/14

Left: 0.006 ± 0.063 χ^2/NDF : 46.7/31

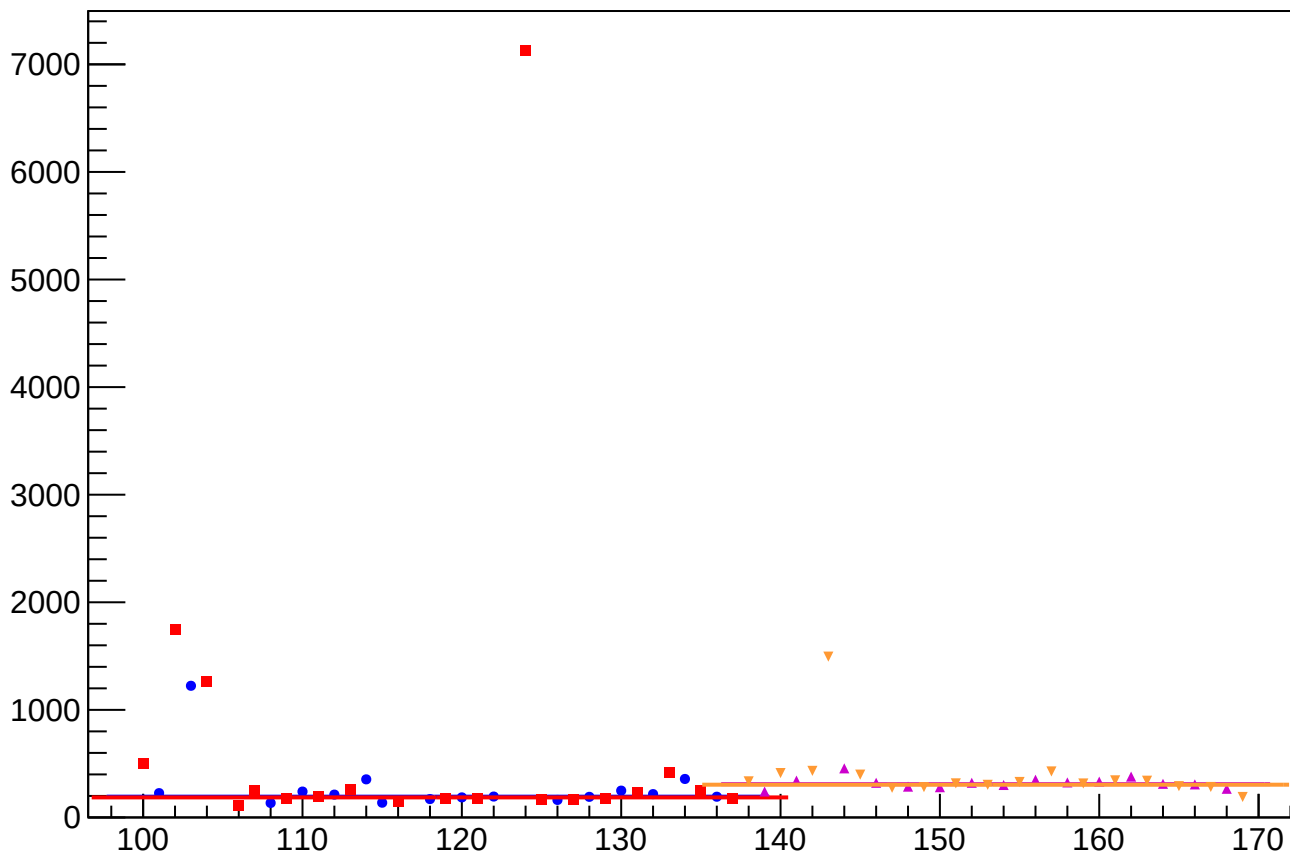
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.033 ± 0.059 χ^2/NDF : 35.7/30

Out: 0.042 ± 0.059 χ^2/NDF : 45.6/35

All: 0.005 ± 0.042 χ^2/NDF : 82.1/66

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 193.247+/-0.055 χ^2/NDF : 1408390.6/15

Left Out: 304.450+/-0.062 χ^2/NDF : 2115032.1/16

Right Out: 186.376+/-0.056 χ^2/NDF : 2479113.1/18

Left In: 309.556+/-0.064 χ^2/NDF : 491361.8/14

Left: 306.934+/-0.045 χ^2/NDF : 2609680.5/31

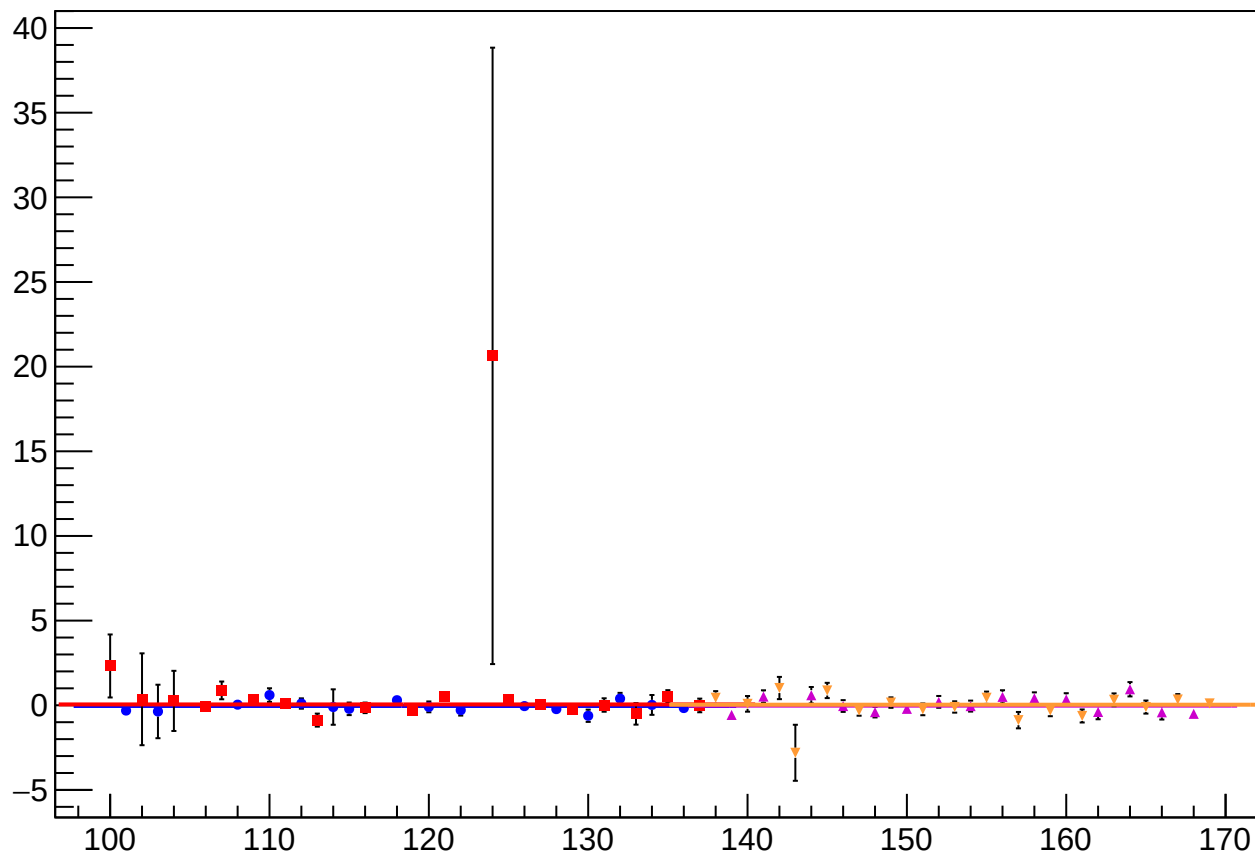
Right: 189.857+/-0.039 χ^2/NDF : 3895208.3/34

In: 242.786+/-0.042 χ^2/NDF : 3805870.4/30

Out: 239.012+/-0.041 χ^2/NDF : 6596402.0/35

All: 240.891+/-0.029 χ^2/NDF : 10406394.4/66

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.041 ± 0.078 χ^2/NDF : 11.7/15

Left Out: 0.033 ± 0.088 χ^2/NDF : 22.5/16

Right Out: 0.049 ± 0.079 χ^2/NDF : 23.0/18

Left In: -0.022 ± 0.090 χ^2/NDF : 24.0/14

Left: 0.006 ± 0.063 χ^2/NDF : 46.7/31

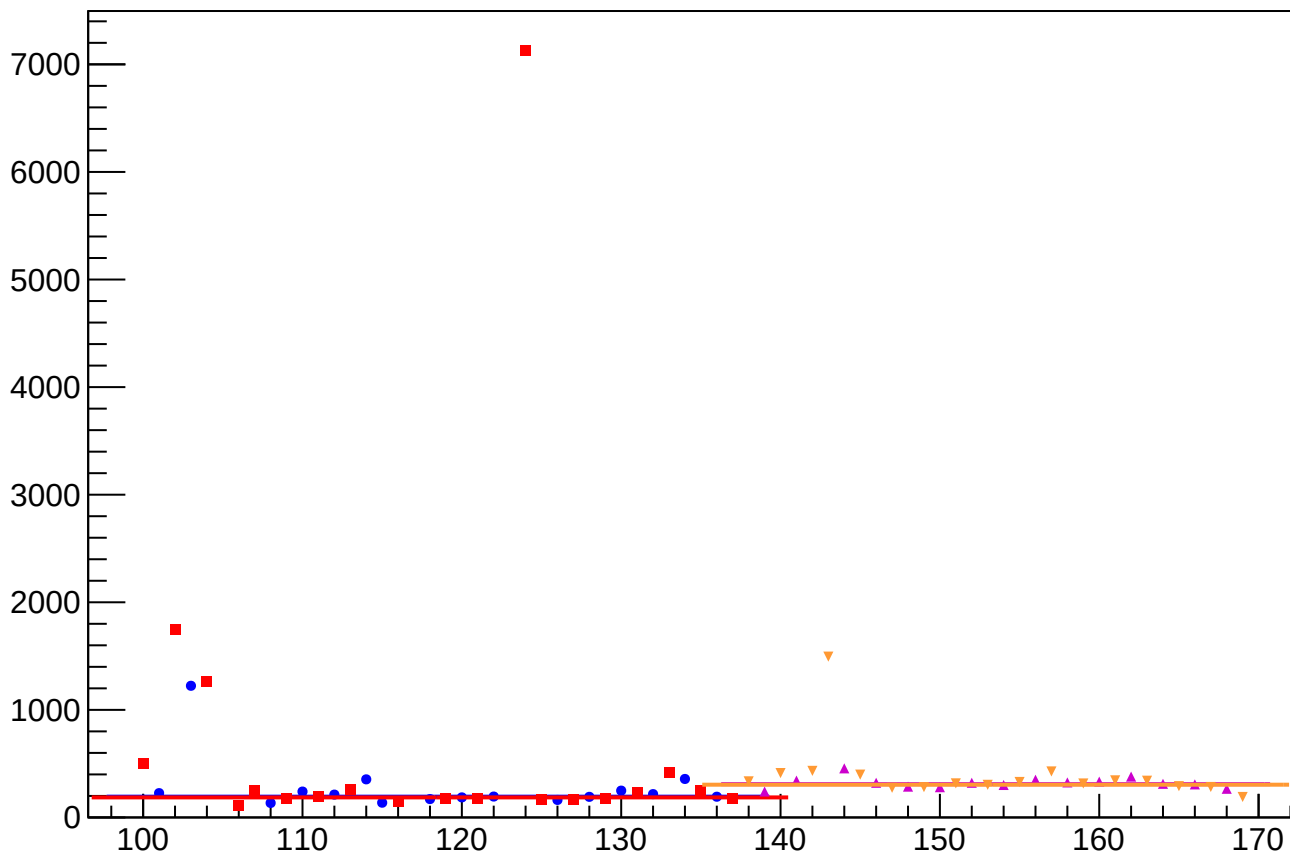
Right: 0.004 ± 0.055 χ^2/NDF : 35.4/34

In: -0.033 ± 0.059 χ^2/NDF : 35.7/30

Out: 0.042 ± 0.059 χ^2/NDF : 45.6/35

All: 0.005 ± 0.042 χ^2/NDF : 82.1/66

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 193.247 ± 0.055 χ^2/NDF : 1408390.6/15

Left Out: 304.450 ± 0.062 χ^2/NDF : 2115032.1/16

Right Out: 186.376 ± 0.056 χ^2/NDF : 2479113.1/18

Left In: 309.556 ± 0.064 χ^2/NDF : 491361.8/14

Left: 306.934 ± 0.045 χ^2/NDF : 2609680.5/31

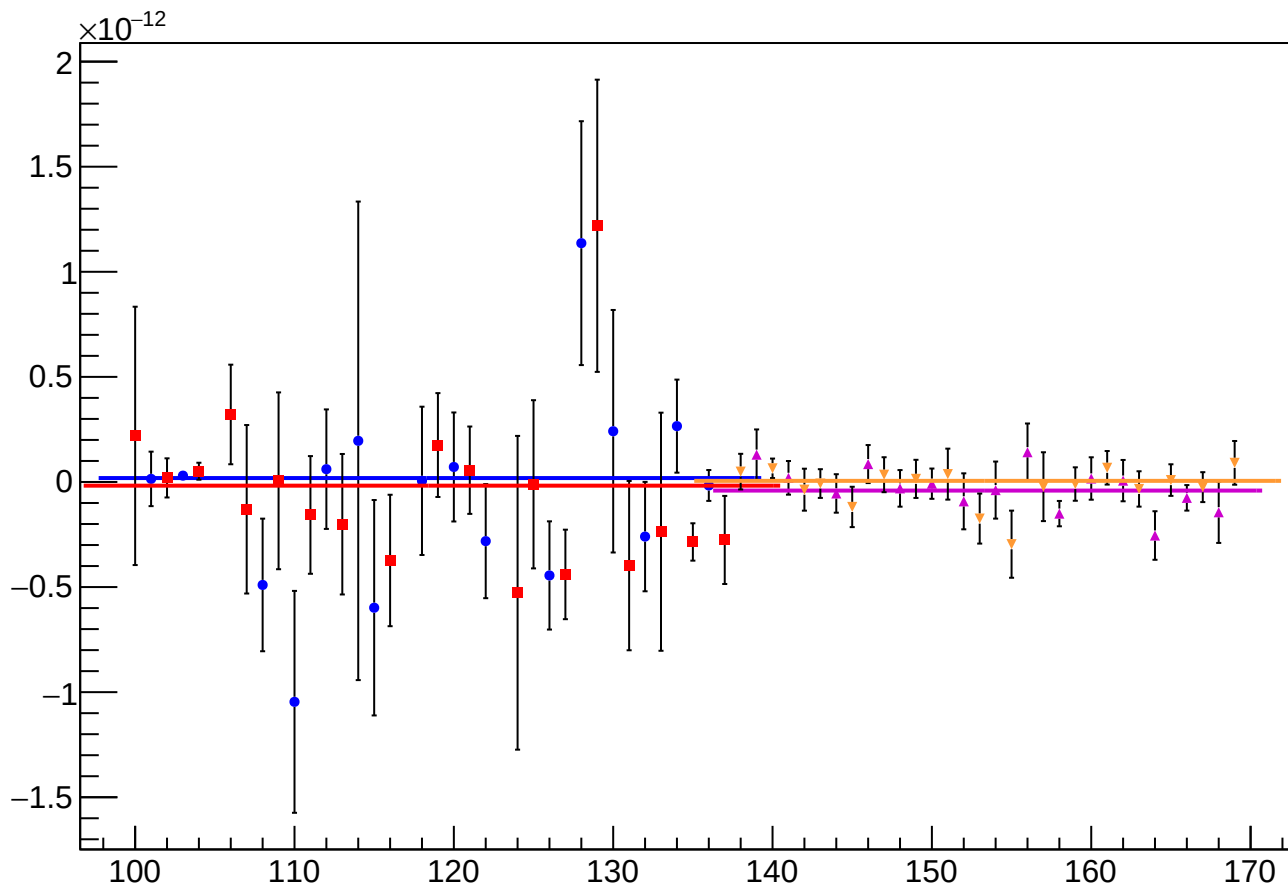
Right: 189.857 ± 0.039 χ^2/NDF : 3895208.3/34

In: 242.786 ± 0.042 χ^2/NDF : 3805870.4/30

Out: 239.012 ± 0.041 χ^2/NDF : 6596402.0/35

All: 240.891 ± 0.029 χ^2/NDF : 10406394.4/66

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 11.6/16

Right Out: -0.000+/-0.000 χ^2/NDF : 27.1/18

Left In: -0.000+/-0.000 χ^2/NDF : 14.8/14

Left: -0.000+/-0.000 χ^2/NDF : 28.6/31

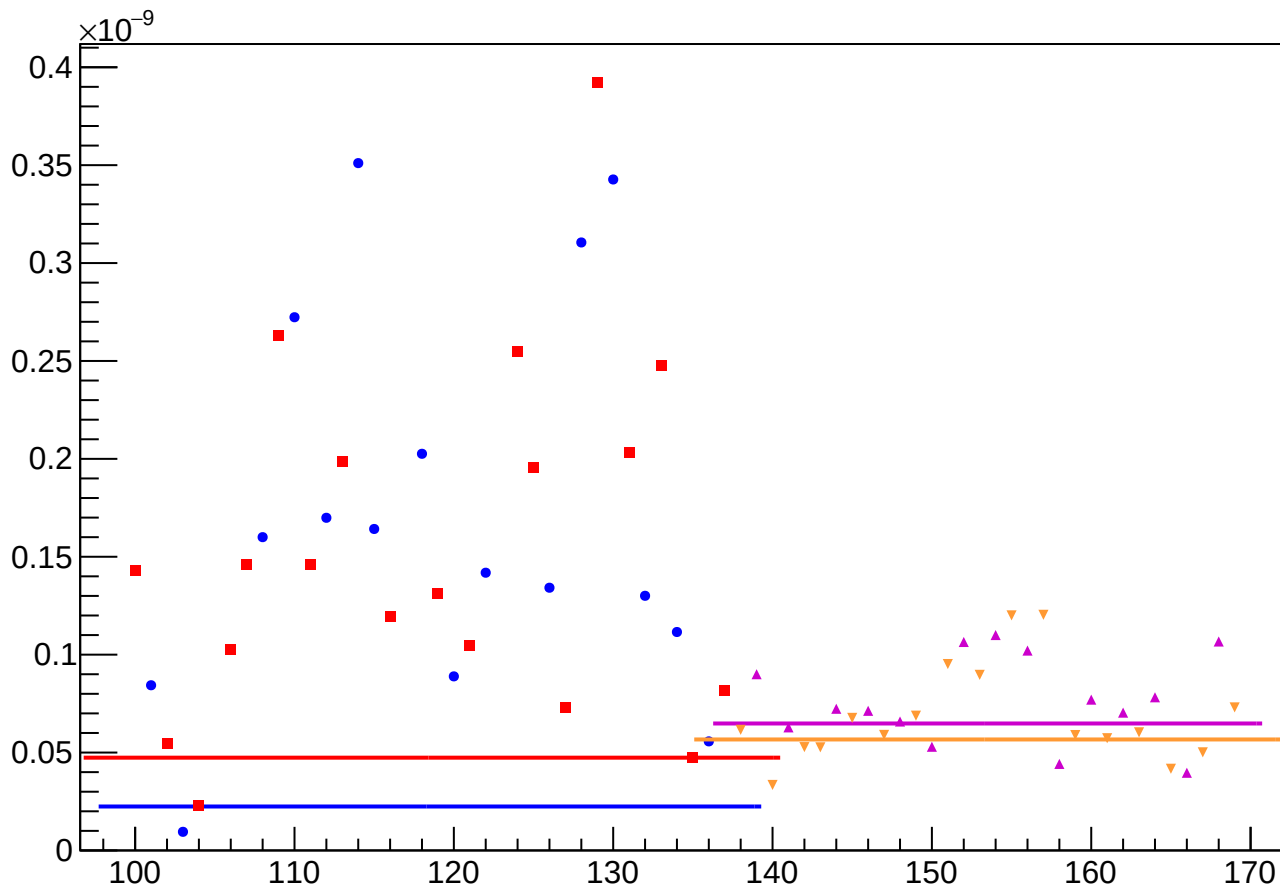
Right: 0.000+/-0.000 χ^2/NDF : 47.5/34

In: -0.000+/-0.000 χ^2/NDF : 37.9/30

Out: -0.000+/-0.000 χ^2/NDF : 39.1/35

All: -0.000+/-0.000 χ^2/NDF : 77.1/66

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 6410173.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :1706333.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4236050.4/18

Left In: 0.000+/-0.000 χ^2/NDF :1538082.2/14

Left: 0.000+/-0.000 χ^2/NDF : 3383271.3/31

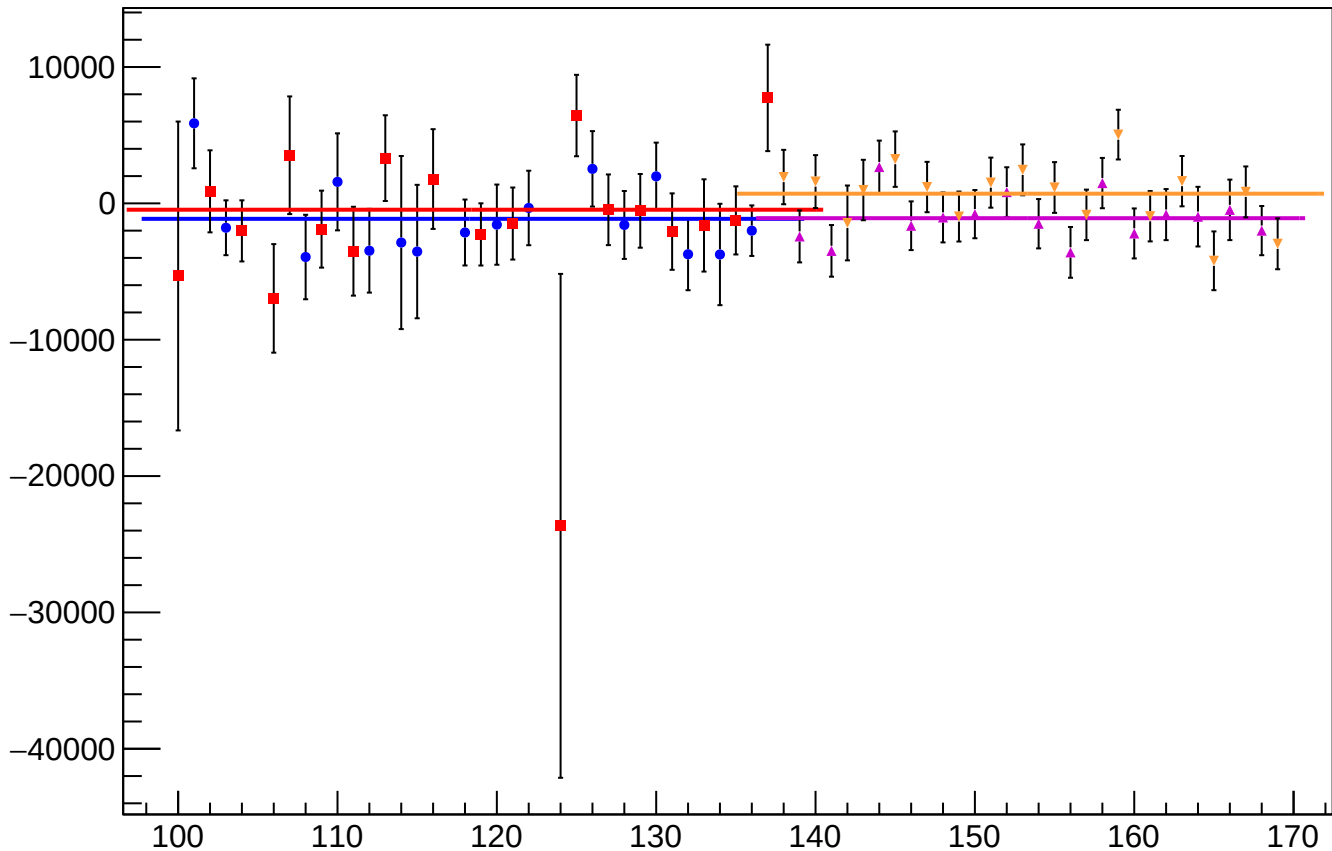
Right: 0.000+/-0.000 χ^2/NDF : 11534651.4/34

In: 0.000+/-0.000 χ^2/NDF :11646371.5/30

Out: 0.000+/-0.000 χ^2/NDF :6067092.3/35

All: 0.000+/-0.000 χ^2/NDF : 18350280.9/66

reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1134.630 ± 693.782 $\chi^2/\text{NDF}: 12.2/15$

Left Out: 710.447 ± 470.010 $\chi^2/\text{NDF}: 21.3/16$

Right Out: -465.519 ± 705.926 $\chi^2/\text{NDF}: 20.0/18$

Left In: -1087.633 ± 485.478 $\chi^2/\text{NDF}: 11.6/14$

Left: -159.491 ± 337.683 $\chi^2/\text{NDF}: 40.0/31$

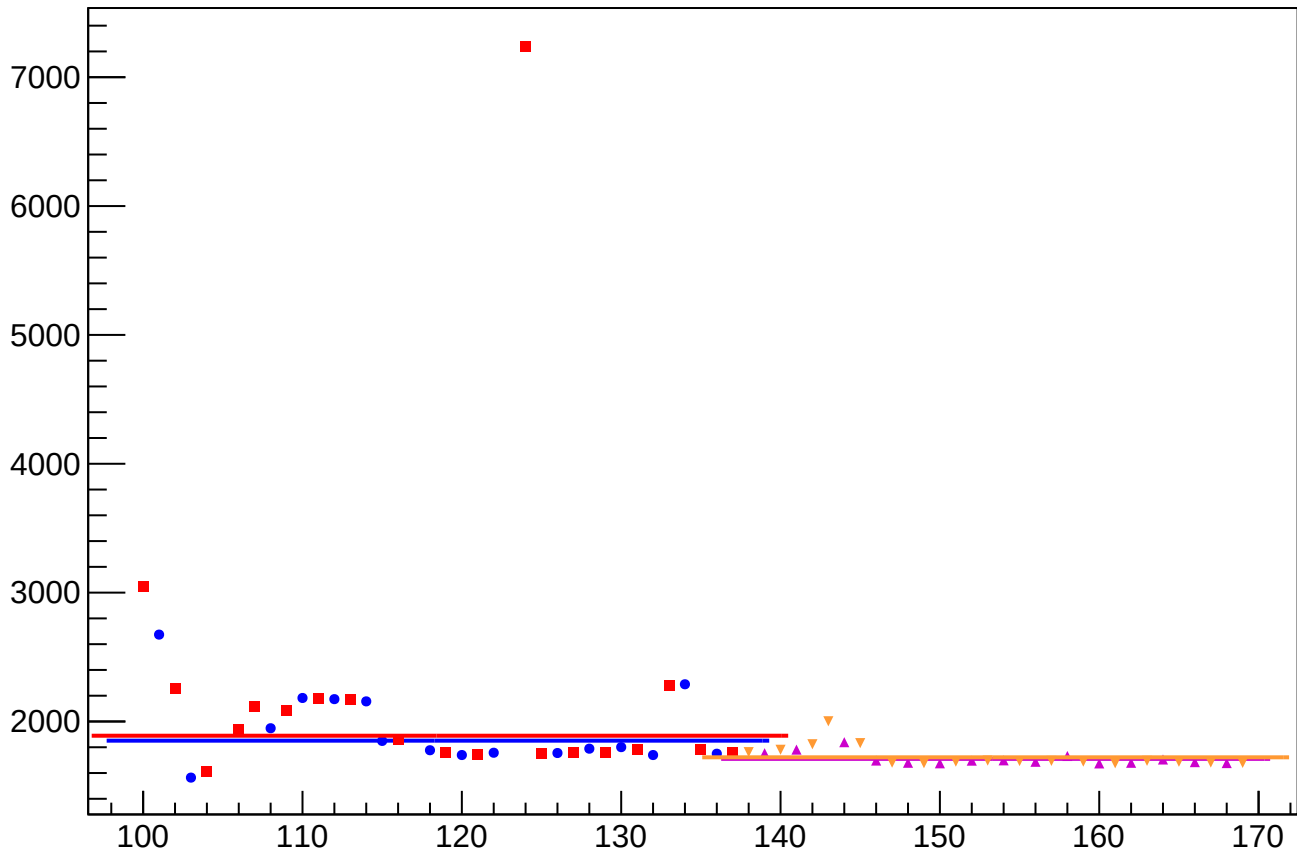
Right: -805.879 ± 494.815 $\chi^2/\text{NDF}: 32.7/34$

In: -1103.081 ± 397.765 $\chi^2/\text{NDF}: 23.8/30$

Out: 349.258 ± 391.227 $\chi^2/\text{NDF}: 43.2/35$

All: -364.878 ± 278.922 $\chi^2/\text{NDF}: 73.8/66$

reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.130+/-0.491 χ^2/NDF : 259981.6/15

Left Out: 1721.876+/-0.332 χ^2/NDF : 52253.9/16

Right Out: 1889.528+/-0.498 χ^2/NDF : 358902.6/18

Left In: 1709.847+/-0.343 χ^2/NDF : 17224.6/14

Left: 1716.056+/-0.239 χ^2/NDF : 70112.3/31

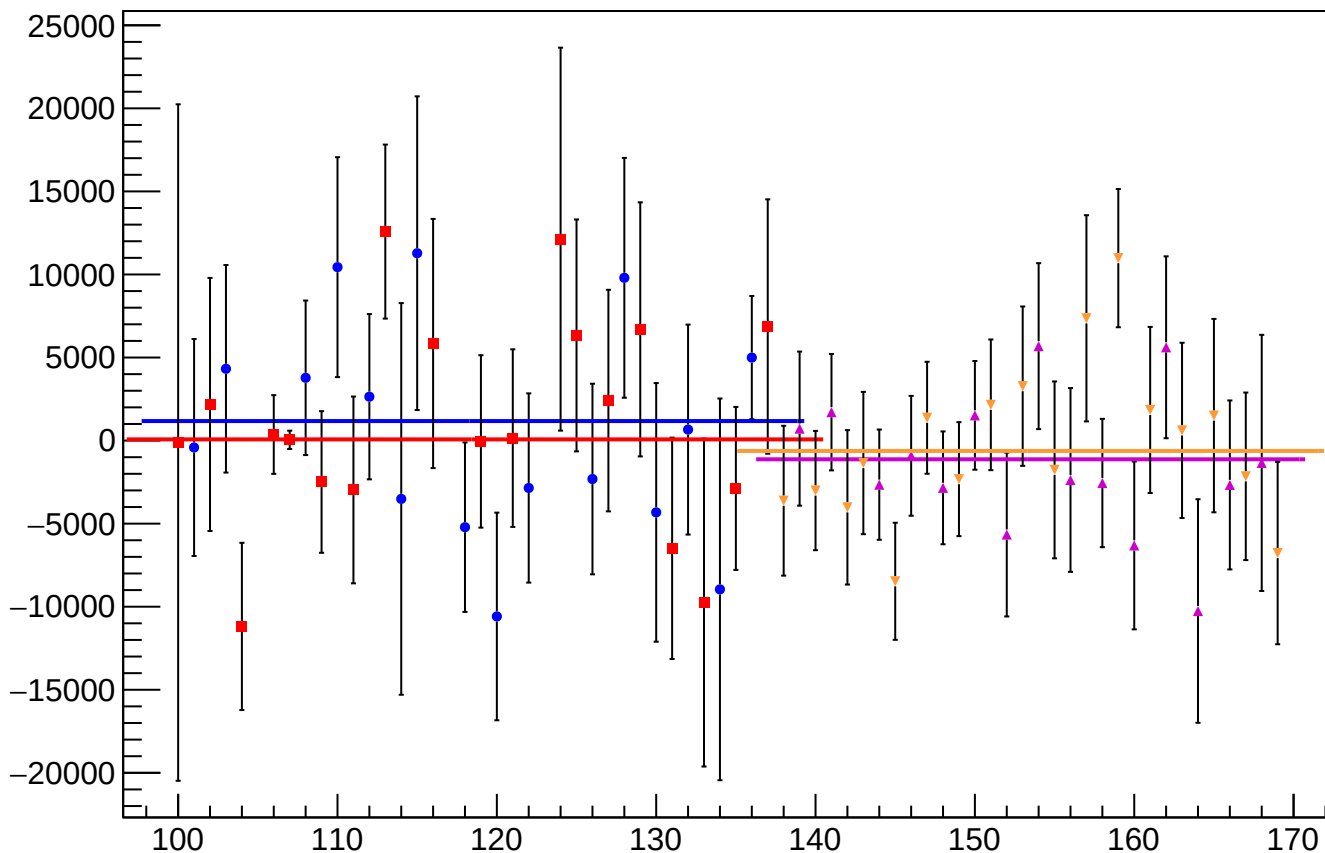
Right: 1870.040+/-0.349 χ^2/NDF : 621901.2/34

In: 1756.287+/-0.281 χ^2/NDF : 332883.8/30

Out: 1773.534+/-0.276 χ^2/NDF : 489565.5/35

All: 1765.060+/-0.197 χ^2/NDF : 824361.8/66

asym_atl1r2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1175.430+/-1502.128 χ^2/NDF : 13.7/15

Left Out: -624.206+/-1062.257 χ^2/NDF :19.4/16

Right Out: 72.681+/-505.693 χ^2/NDF : 17.9/18

Left In: -1126.416+/-1113.380 χ^2/NDF :9.3/14

Left: -863.517+/-768.567 χ^2/NDF : 28.9/31

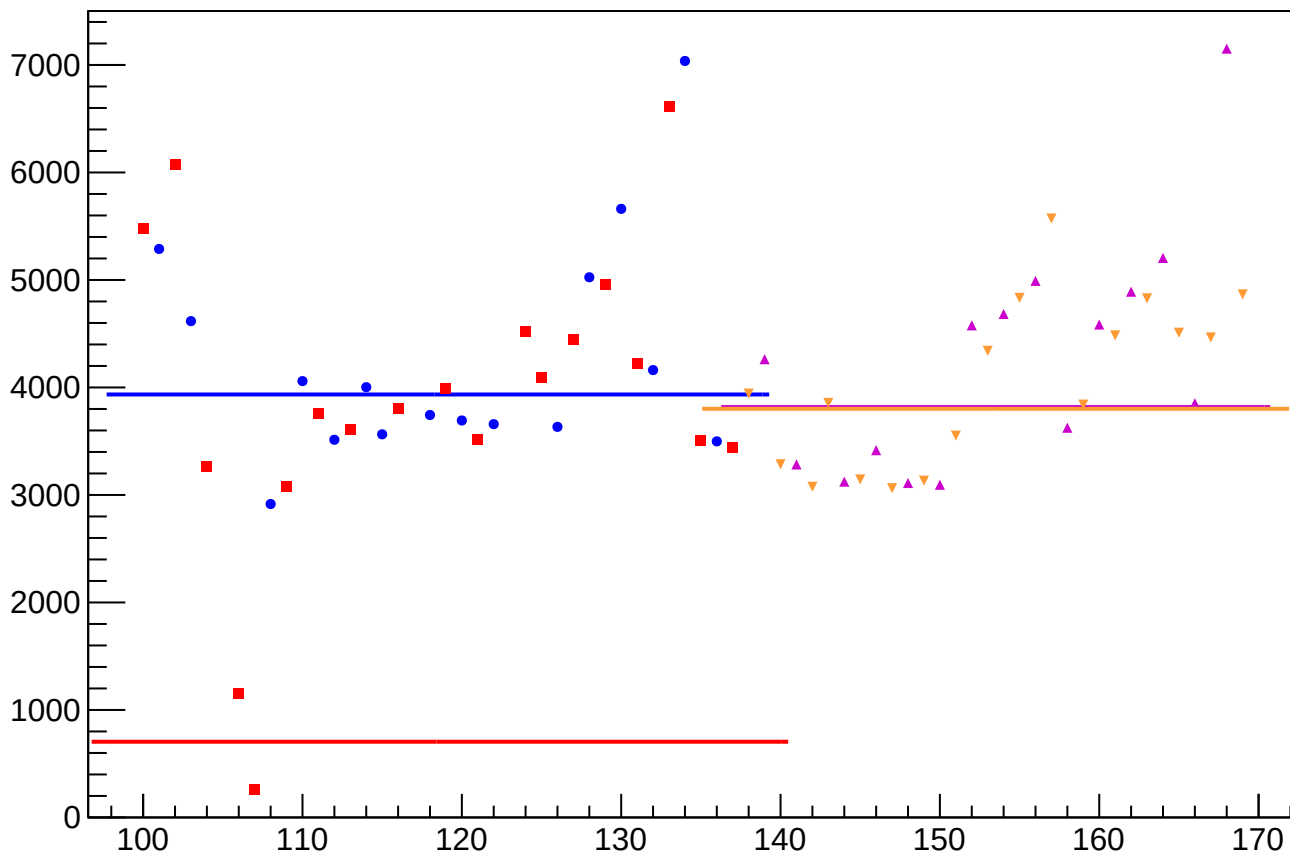
Right: 184.938+/-479.263 χ^2/NDF : 32.1/34

In: -310.227+/-894.467 χ^2/NDF :24.6/30

Out: -56.074+/-456.594 χ^2/NDF :37.7/35

All: -108.610+/-406.674 χ^2/NDF : 62.3/66

asym_atl1r2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3934.718+/-1.062

χ^2/NDF : 560125.6/15

Left Out: 3801.637+/-0.751

χ^2/NDF : 857932.6/16

Right Out: 704.385+/-0.358

χ^2/NDF : 10618643.5/18

Left In: 3817.736+/-0.787

χ^2/NDF : 1145953.9/14

Left: 3809.309+/-0.543 χ^2/NDF : 2004105.4/31

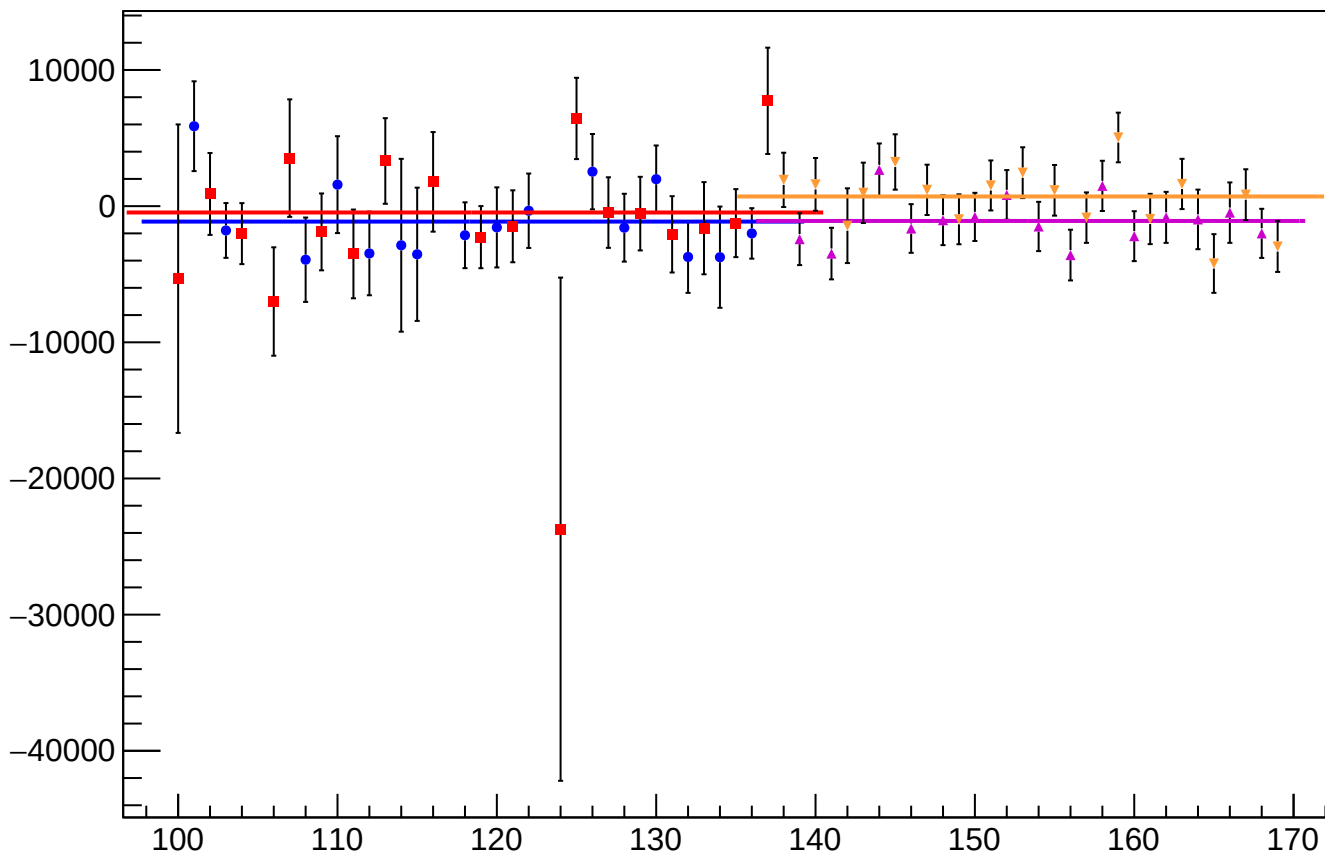
Right: 1033.223+/-0.339 χ^2/NDF : 19486549.2/34

In: 3859.216+/-0.632 χ^2/NDF : 1713908.2/30

Out: 1276.625+/-0.323 χ^2/NDF : 25338089.5/35

All: 1810.475+/-0.288 χ^2/NDF : 40278462.1/6

cor_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1134.203 ± 693.782 $\chi^2/\text{NDF}: 12.2/15$

Left Out: 710.527 ± 470.010 $\chi^2/\text{NDF}: 21.3/16$

Right Out: -465.899 ± 705.928 $\chi^2/\text{NDF}: 20.0/18$

Left In: -1087.596 ± 485.478 $\chi^2/\text{NDF}: 11.6/14$

Left: -159.432 ± 337.683 $\chi^2/\text{NDF}: 40.0/31$

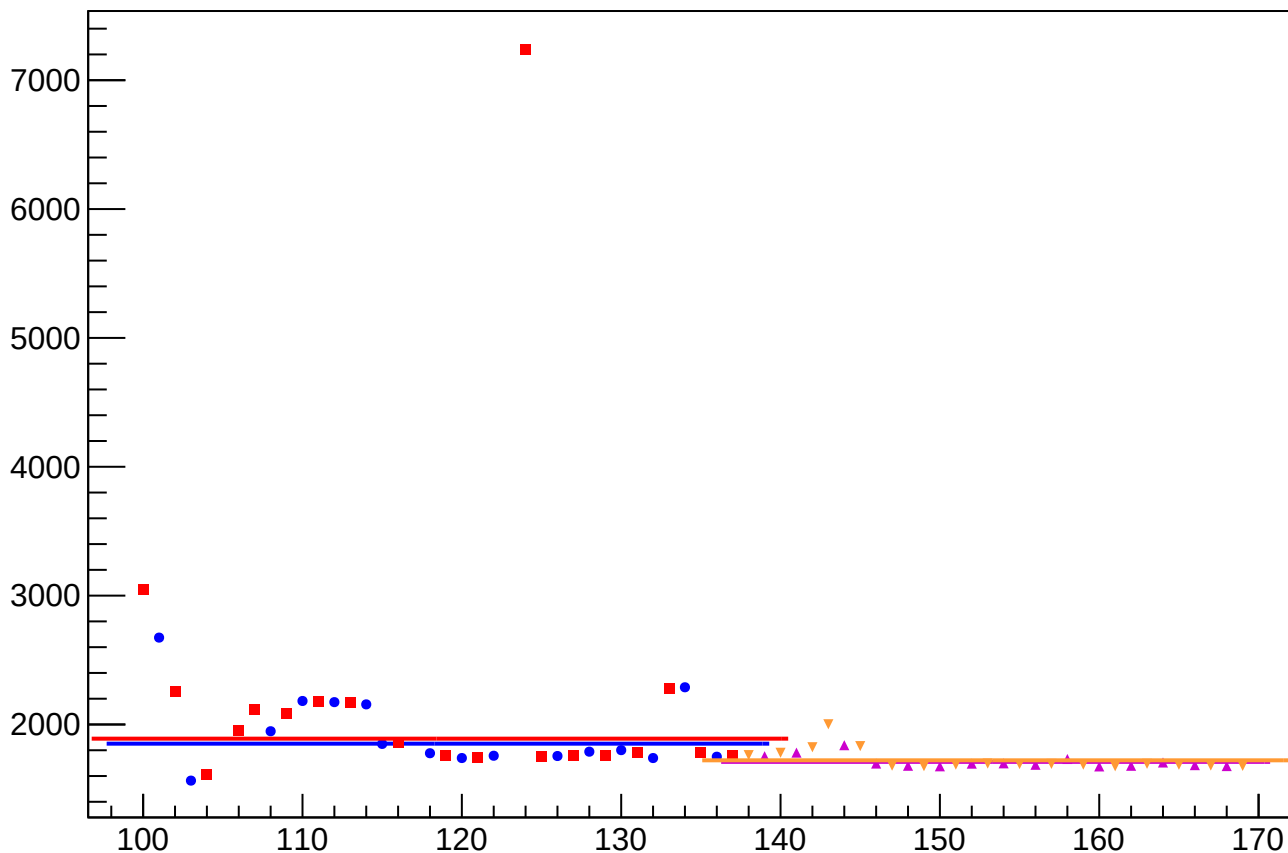
Right: -805.849 ± 494.816 $\chi^2/\text{NDF}: 32.7/34$

In: -1102.916 ± 397.765 $\chi^2/\text{NDF}: 23.8/30$

Out: 349.198 ± 391.227 $\chi^2/\text{NDF}: 43.3/35$

All: -364.828 ± 278.922 $\chi^2/\text{NDF}: 73.9/66$

cor_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.131 ± 0.491 χ^2/NDF : 259980.7/15

Left Out: 1721.876 ± 0.332 χ^2/NDF : 52253.9/16

Right Out: 1889.986 ± 0.498 χ^2/NDF : 359122.3/18

Left In: 1709.847 ± 0.343 χ^2/NDF : 17224.6/14

Left: 1716.056 ± 0.239 χ^2/NDF : 70112.3/31

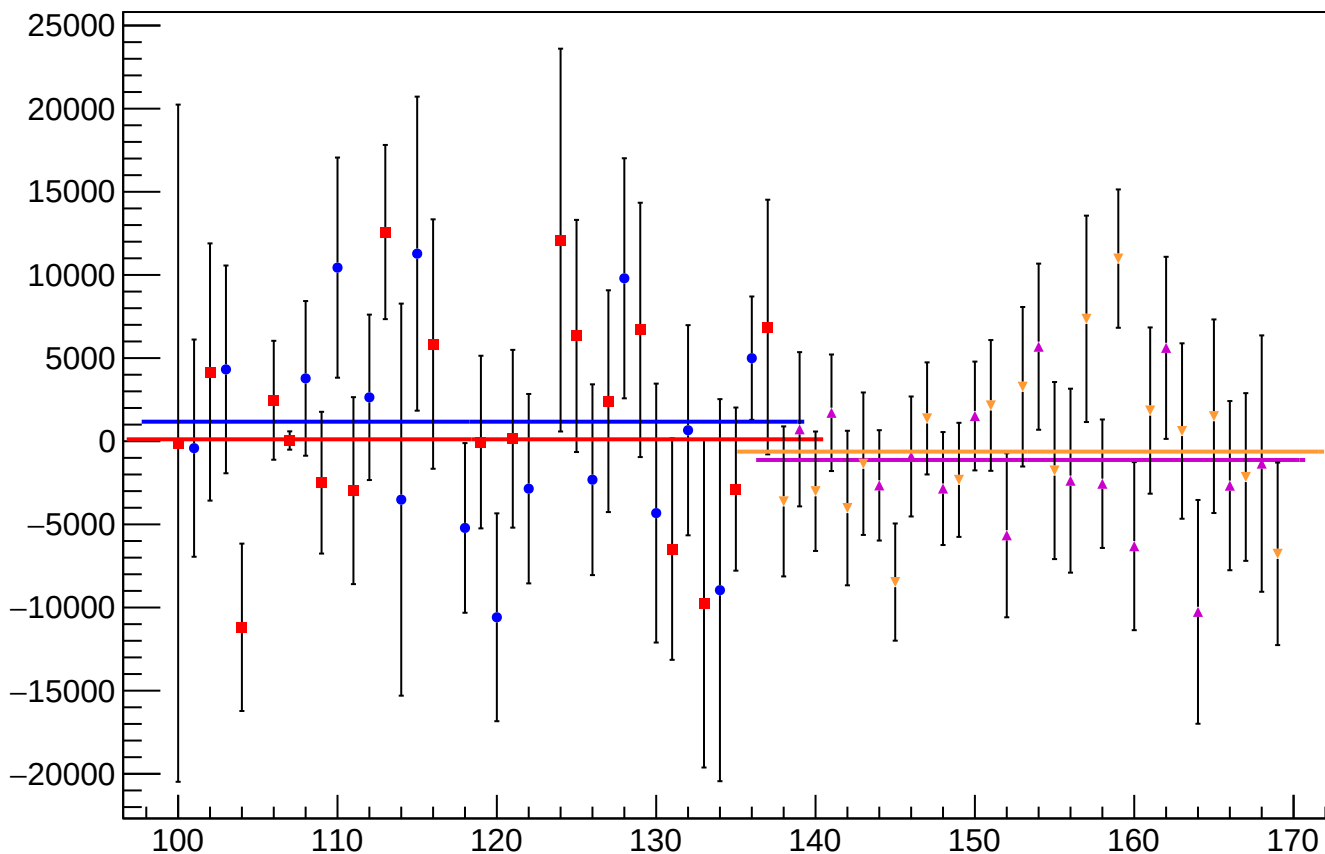
Right: 1870.262 ± 0.350 χ^2/NDF : 622191.7/34

In: 1756.288 ± 0.281 χ^2/NDF : 332883.2/30

Out: 1773.659 ± 0.276 χ^2/NDF : 490189.7/35

All: 1765.123 ± 0.197 χ^2/NDF : 825013.1/66

asym_atl1r2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 1175.408 $\pm$ 1502.134 χ^2 /NDF: 13.7/15

Left Out: -624.193 $\pm$ 1062.254 χ^2 /NDF:19.4/16

Right Out: 115.917 $\pm$ 512.289 χ^2 /NDF: 18.6/18

Left In: -1126.414 $\pm$ 1113.379 χ^2 /NDF:9.3/14

Left: -863.509 $\pm$ 768.566 χ^2 /NDF: 28.9/31

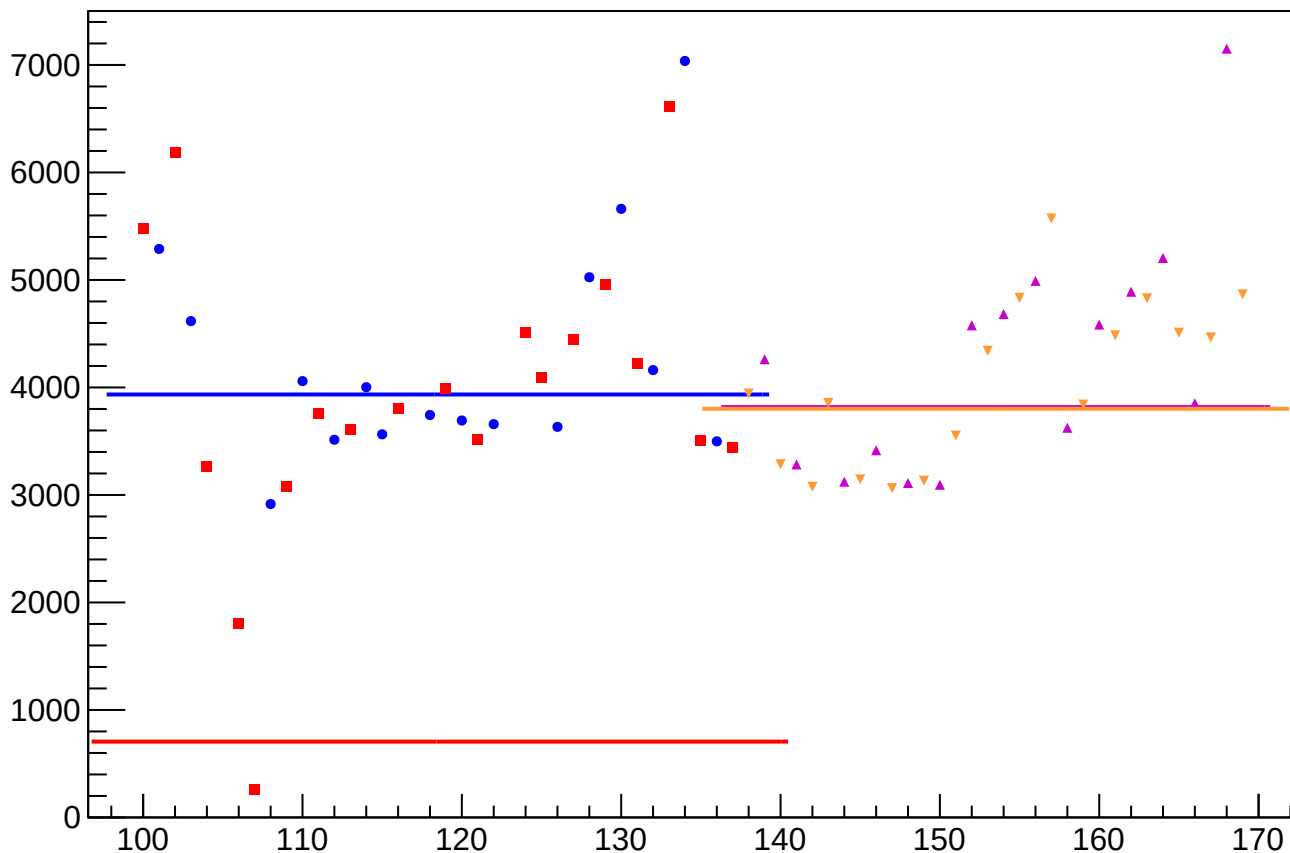
Right: 226.306 $\pm$ 484.867 χ^2 /NDF: 32.7/34

In: -310.238 $\pm$ 894.468 χ^2 /NDF:24.6/30

Out: -23.738 $\pm$ 461.432 χ^2 /NDF:38.4/35

All: -83.957 $\pm$ 410.081 χ^2 /NDF: 63.0/66

asym_atl1r2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3934.727+/-1.062

χ^2/NDF : 560149.8/15

Left: 3809.303+/-0.543 χ^2/NDF : 2004099.9/31

Right: 1042.063+/-0.343 χ^2/NDF : 19586646.8/34

Left Out: 3801.626+/-0.751

χ^2/NDF : 857941.3/16

In: 3859.219+/-0.632 χ^2/NDF : 1713919.1/30

Right Out: 705.620+/-0.362

χ^2/NDF : 10747208.1/18

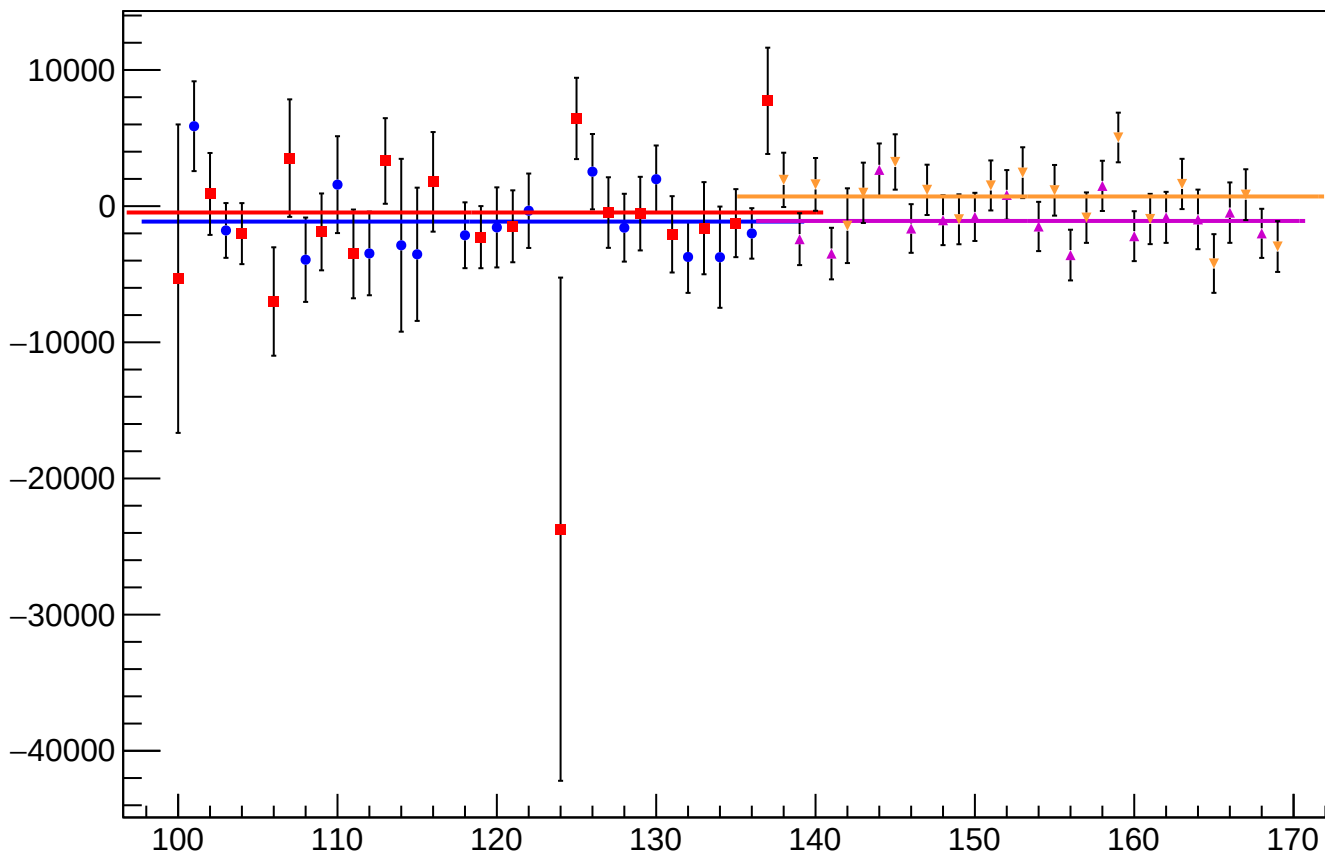
Out: 1289.818+/-0.326 χ^2/NDF : 25388708.8/35

Left In: 3817.737+/-0.787

χ^2/NDF : 1145939.4/14

All: 1829.876+/-0.290 χ^2/NDF : 40136924.8/6

eigen_cor_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1134.203 ± 693.782 χ^2/NDF : 12.2/15

Left Out: 710.527 ± 470.010 χ^2/NDF : 21.3/16

Right Out: -465.899 ± 705.928 χ^2/NDF : 20.0/18

Left In: -1087.596 ± 485.478 χ^2/NDF : 11.6/14

Left: -159.432 ± 337.683 χ^2/NDF : 40.0/31

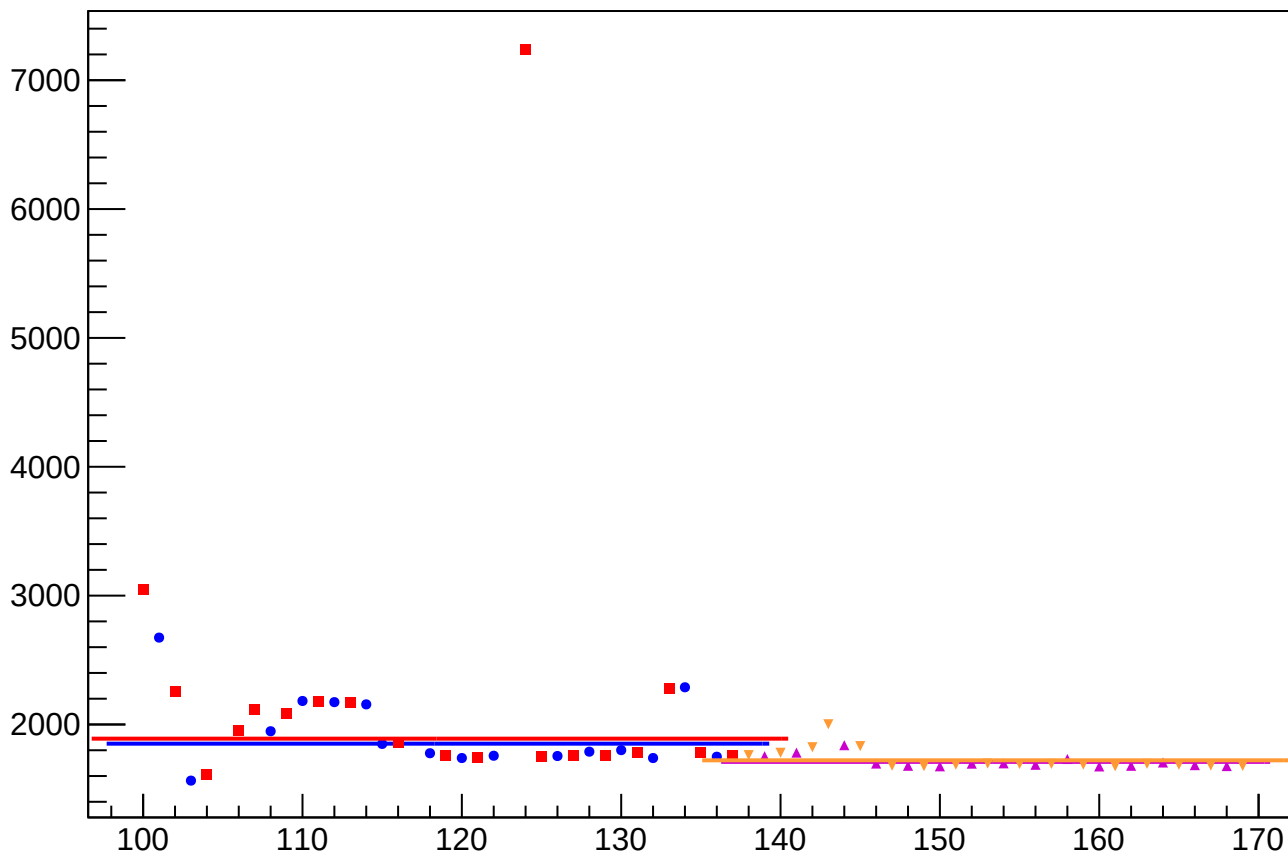
Right: -805.849 ± 494.816 χ^2/NDF : 32.7/34

In: -1102.916 ± 397.765 χ^2/NDF : 23.8/30

Out: 349.198 ± 391.227 χ^2/NDF : 43.3/35

All: -364.828 ± 278.922 χ^2/NDF : 73.9/66

eigen_cor_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1851.131 $\pm$ 0.491 χ^2 /NDF: 259980.7/15

Left Out: 1721.876 $\pm$ 0.332 χ^2 /NDF: 52253.9/16

Right Out: 1889.986 $\pm$ 0.498 χ^2 /NDF: 359122.3/18

Left In: 1709.847 $\pm$ 0.343 χ^2 /NDF: 17224.6/14

Left: 1716.056 $\pm$ 0.239 χ^2 /NDF: 70112.3/31

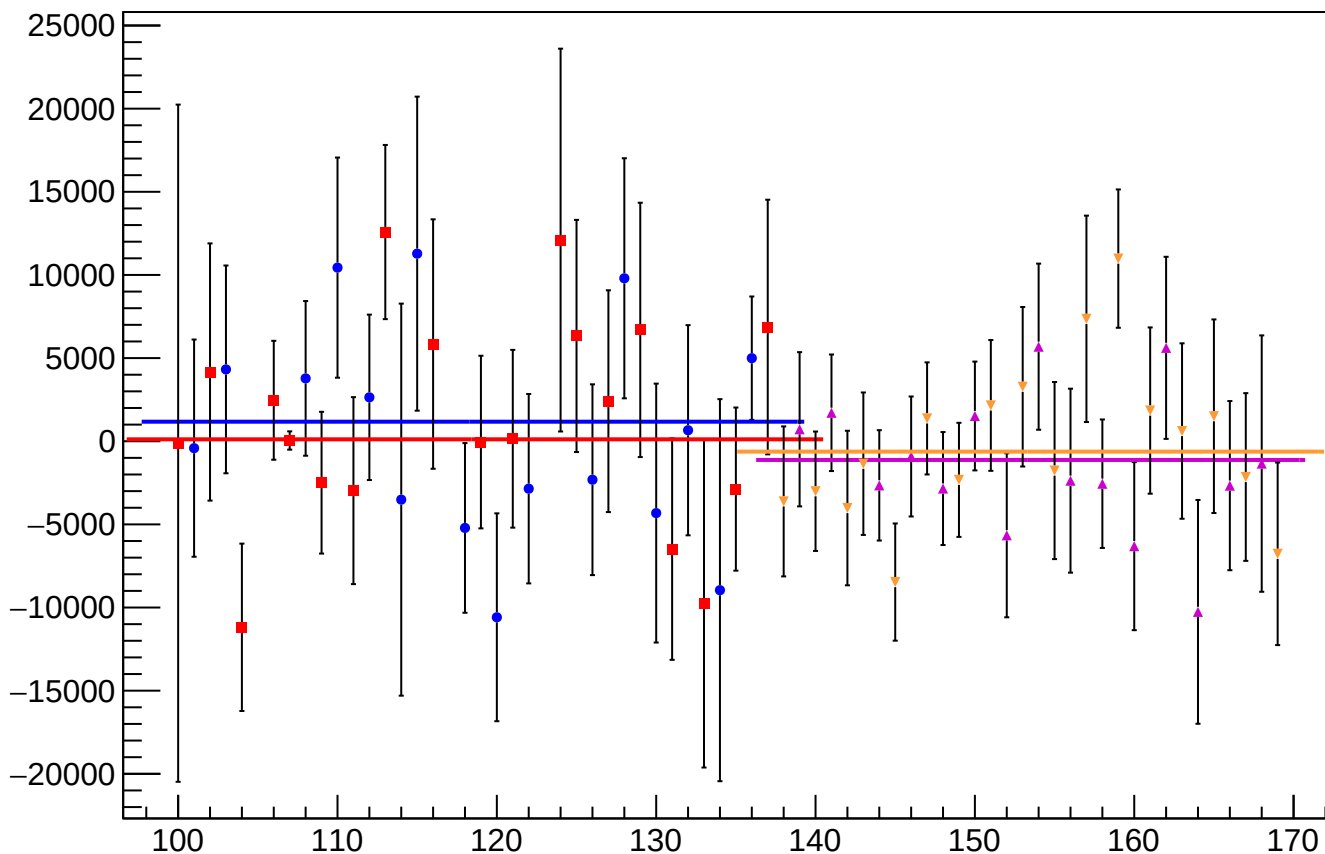
Right: 1870.262 $\pm$ 0.350 χ^2 /NDF: 622191.7/34

In: 1756.288 $\pm$ 0.281 χ^2 /NDF: 332883.2/30

Out: 1773.659 $\pm$ 0.276 χ^2 /NDF: 490189.7/35

All: 1765.123 $\pm$ 0.197 χ^2 /NDF: 825013.1/66

asym_atl1r2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 1175.408 $\pm$ 1502.134 χ^2 /NDF: 13.7/15

Left Out: -624.193 $\pm$ 1062.254 χ^2 /NDF:19.4/16

Right Out: 115.917 $\pm$ 512.289 χ^2 /NDF: 18.6/18

Left In: -1126.414 $\pm$ 1113.379 χ^2 /NDF:9.3/14

Left: -863.509 $\pm$ 768.566 χ^2 /NDF: 28.9/31

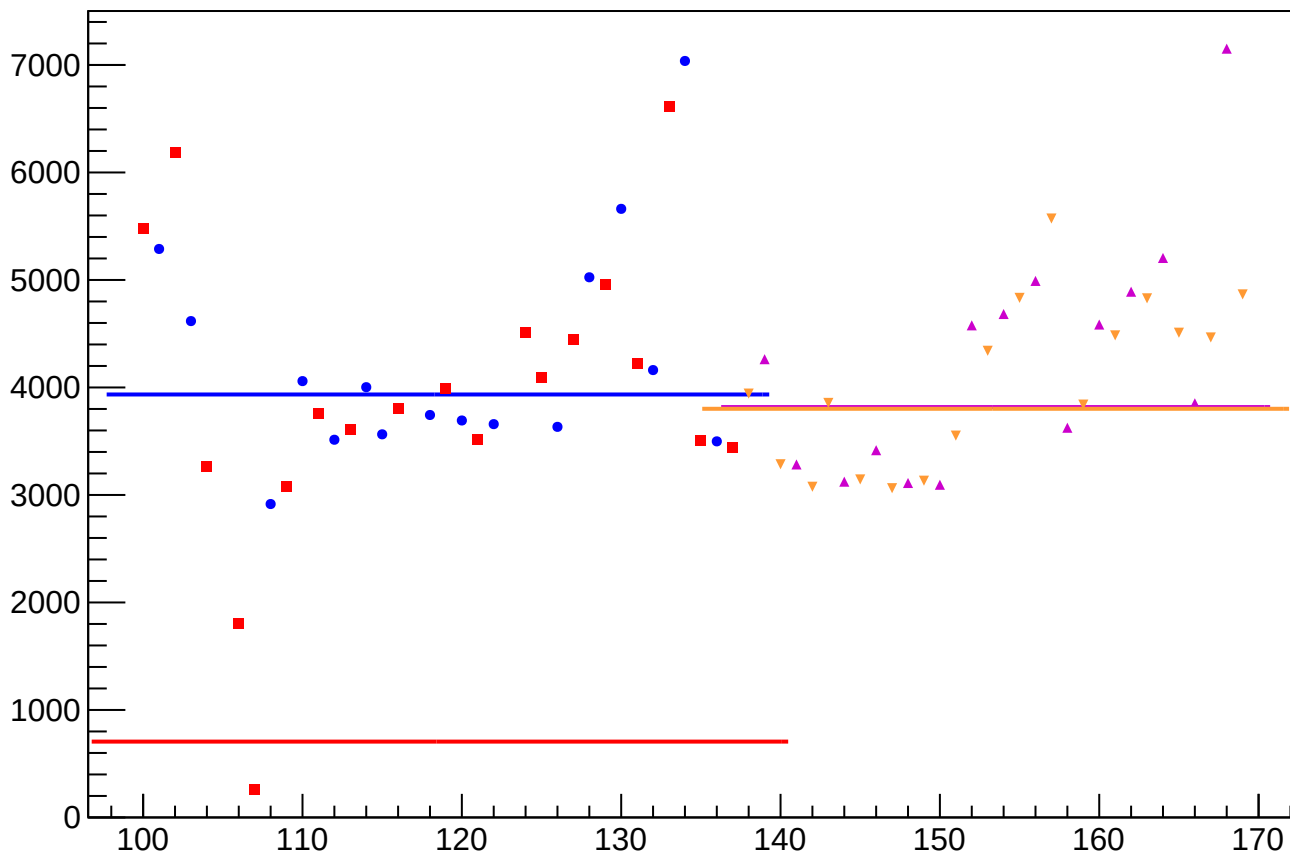
Right: 226.306 $\pm$ 484.867 χ^2 /NDF: 32.7/34

In: -310.238 $\pm$ 894.468 χ^2 /NDF:24.6/30

Out: -23.738 $\pm$ 461.432 χ^2 /NDF:38.4/35

All: -83.957 $\pm$ 410.081 χ^2 /NDF: 63.0/66

asym_atl1r2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3934.727+/-1.062

χ^2/NDF : 560149.8/15

Left Out: 3801.626+/-0.751

χ^2/NDF : 857941.3/16

Right Out: 705.620+/-0.362

χ^2/NDF : 10747208.1/18

Left In: 3817.737+/-0.787

χ^2/NDF : 1145939.4/14

Left: 3809.303+/-0.543 χ^2/NDF : 2004099.9/31

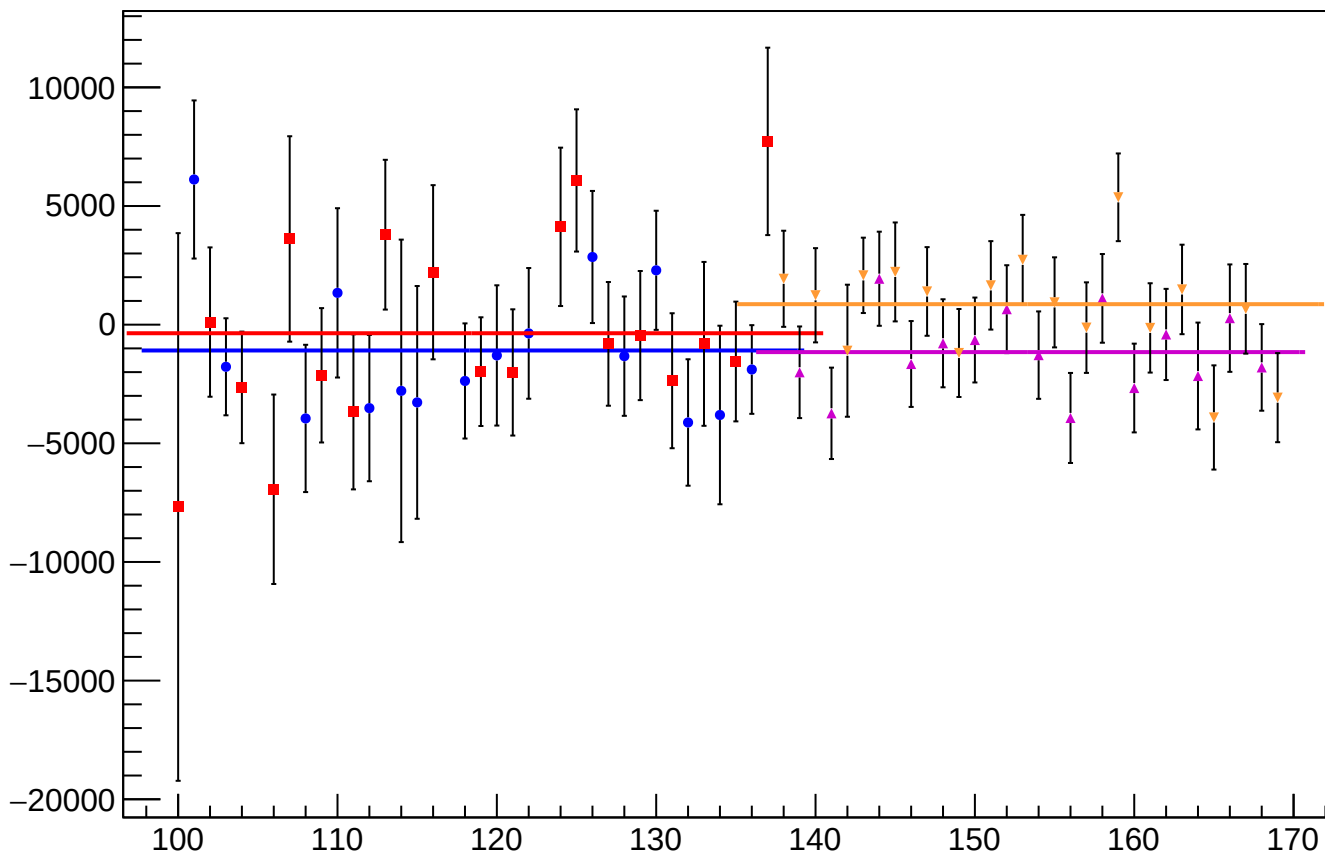
Right: 1042.063+/-0.343 χ^2/NDF : 19586646.8/34

In: 3859.219+/-0.632 χ^2/NDF : 1713919.1/30

Out: 1289.818+/-0.326 χ^2/NDF : 25388708.8/35

All: 1829.876+/-0.290 χ^2/NDF : 40136924.8/66

dit_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1087.731+/-699.579 χ^2/NDF : 13.2/15

Left Out: 863.337+/-467.417 χ^2/NDF : 20.0/16

Right Out: -361.218+/-699.665 χ^2/NDF : 20.8/18

Left In: -1156.341+/-493.803 χ^2/NDF : 10.7/14

Left: -91.102+/-339.459 χ^2/NDF : 39.6/31

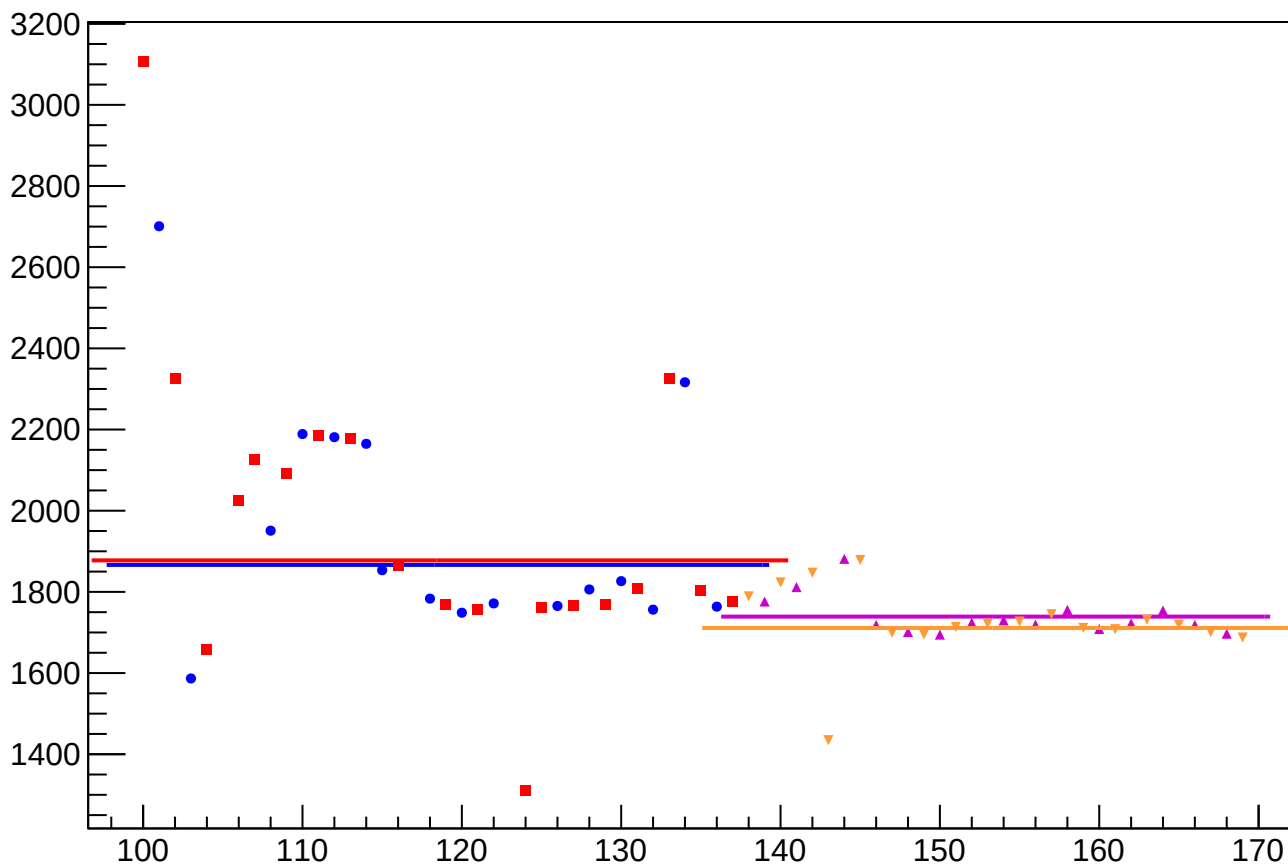
Right: -724.519+/-494.707 χ^2/NDF : 34.5/34

In: -1133.525+/-403.426 χ^2/NDF : 23.9/30

Out: 485.462+/-388.665 χ^2/NDF : 43.0/35

All: -293.871+/-279.901 χ^2/NDF : 75.2/66

dit_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1866.456 ± 0.495 $\chi^2/\text{NDF}: 256262.4/15$

Left Out: 1711.134 ± 0.331 $\chi^2/\text{NDF}: 89353.0/16$

Right Out: 1877.659 ± 0.494 $\chi^2/\text{NDF}: 251850.5/18$

Left In: 1739.072 ± 0.349 $\chi^2/\text{NDF}: 18792.3/14$

Left: 1724.336 ± 0.240 $\chi^2/\text{NDF}: 111521.8/31$

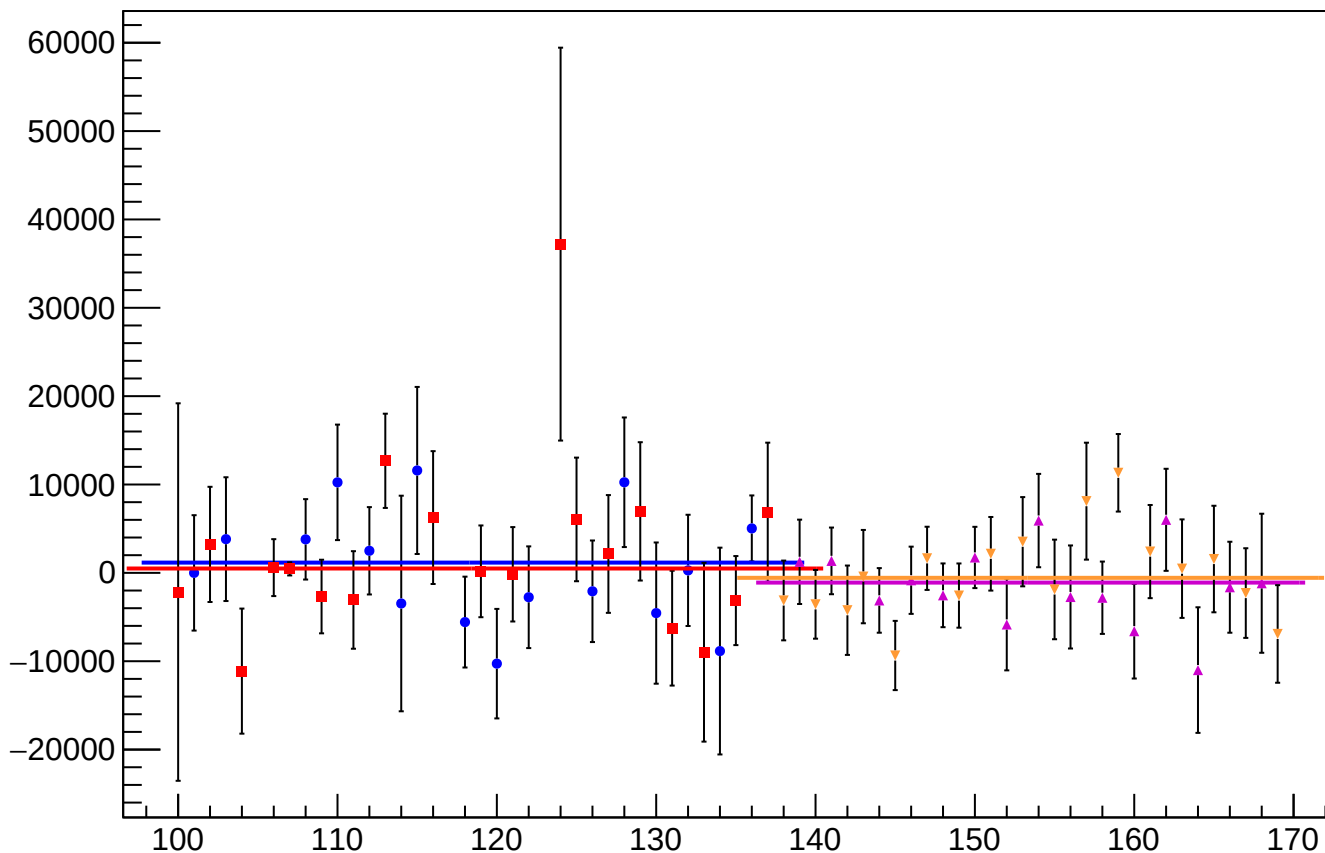
Right: 1872.061 ± 0.350 $\chi^2/\text{NDF}: 508369.5/34$

In: 1781.433 ± 0.285 $\chi^2/\text{NDF}: 319314.3/30$

Out: 1762.579 ± 0.275 $\chi^2/\text{NDF}: 419626.9/35$

All: 1771.652 ± 0.198 $\chi^2/\text{NDF}: 741207.2/66$

asym_atl1r2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1161.124+/-1512.225 χ^2/NDF : 13.7/15

Left Out: -561.971+/-1132.517 χ^2/NDF :19.3/16

Right Out: 492.907+/-658.510 χ^2/NDF : 16.9/18

Left In: -1102.169+/-1179.738 χ^2/NDF :9.2/14

Left: -821.043+/-816.994 χ^2/NDF : 28.6/31

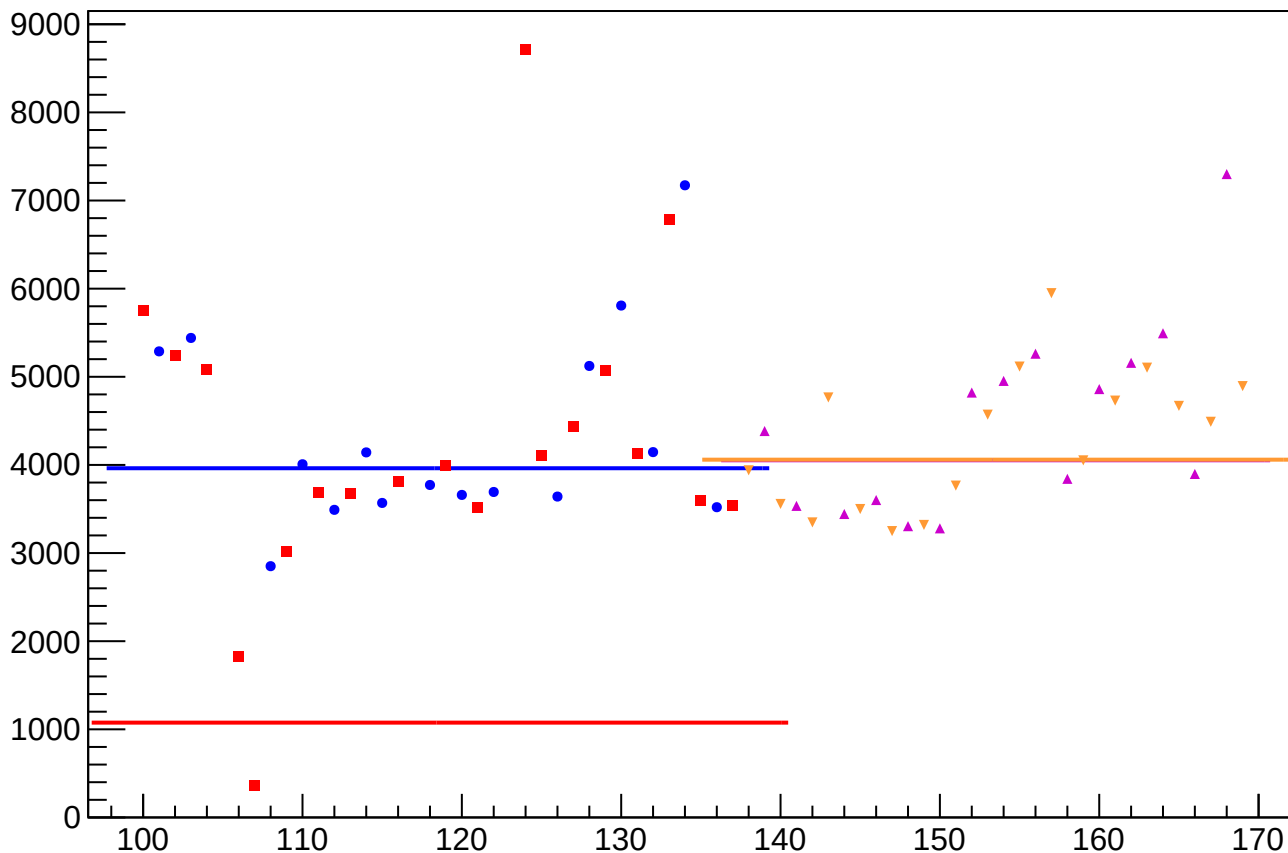
Right: 599.419+/-603.751 χ^2/NDF : 30.8/34

In: -245.864+/-930.166 χ^2/NDF :24.2/30

Out: 226.373+/-569.272 χ^2/NDF :36.9/35

All: 97.692+/-485.555 χ^2/NDF : 61.3/66

asym_atl1r2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3962.368+/-1.069 χ^2/NDF : 668339.6/15

Left Out: 4059.570+/-0.801 χ^2/NDF : 783569.2/16

Right Out: 1075.957+/-0.466 χ^2/NDF : 9558372.9/18

Left In: 4052.711+/-0.834 χ^2/NDF : 1052726.5/14

Left: 4056.280+/-0.578 χ^2/NDF : 1836330.8/31

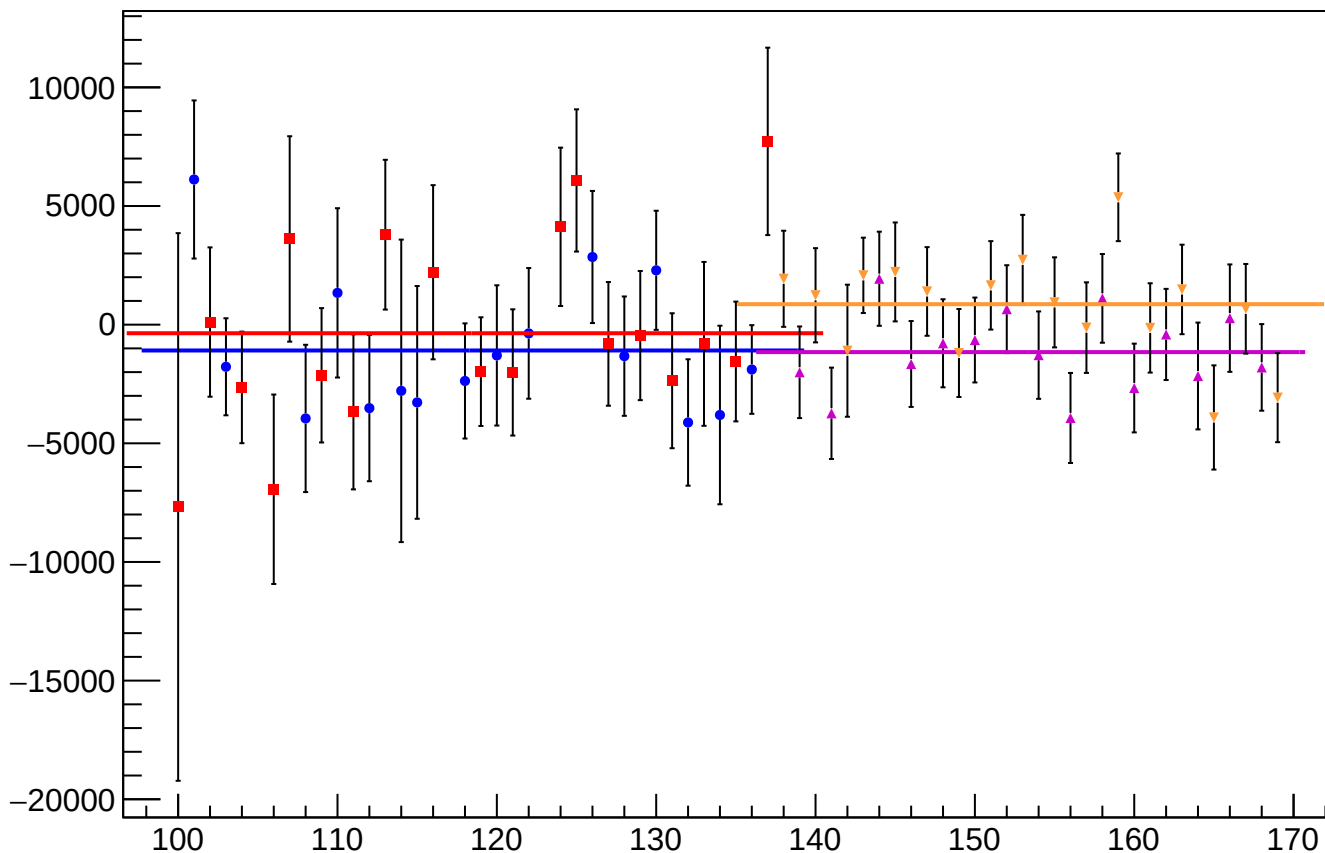
Right: 1536.045+/-0.427 χ^2/NDF : 16351680.6/34

In: 4018.530+/-0.658 χ^2/NDF : 1725503.6/30

Out: 1829.820+/-0.403 χ^2/NDF : 20715777.7/35

All: 2426.228+/-0.343 χ^2/NDF : 30497345.4/66

eigen_dit_asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -1087.736+/-699.579 χ^2/NDF : 13.2/15

Left Out: 863.342+/-467.417 χ^2/NDF : 20.0/16

Right Out: -361.223+/-699.665 χ^2/NDF : 20.8/18

Left In: -1156.343+/-493.804 χ^2/NDF : 10.7/14

Left: -91.101+/-339.459 χ^2/NDF : 39.6/31

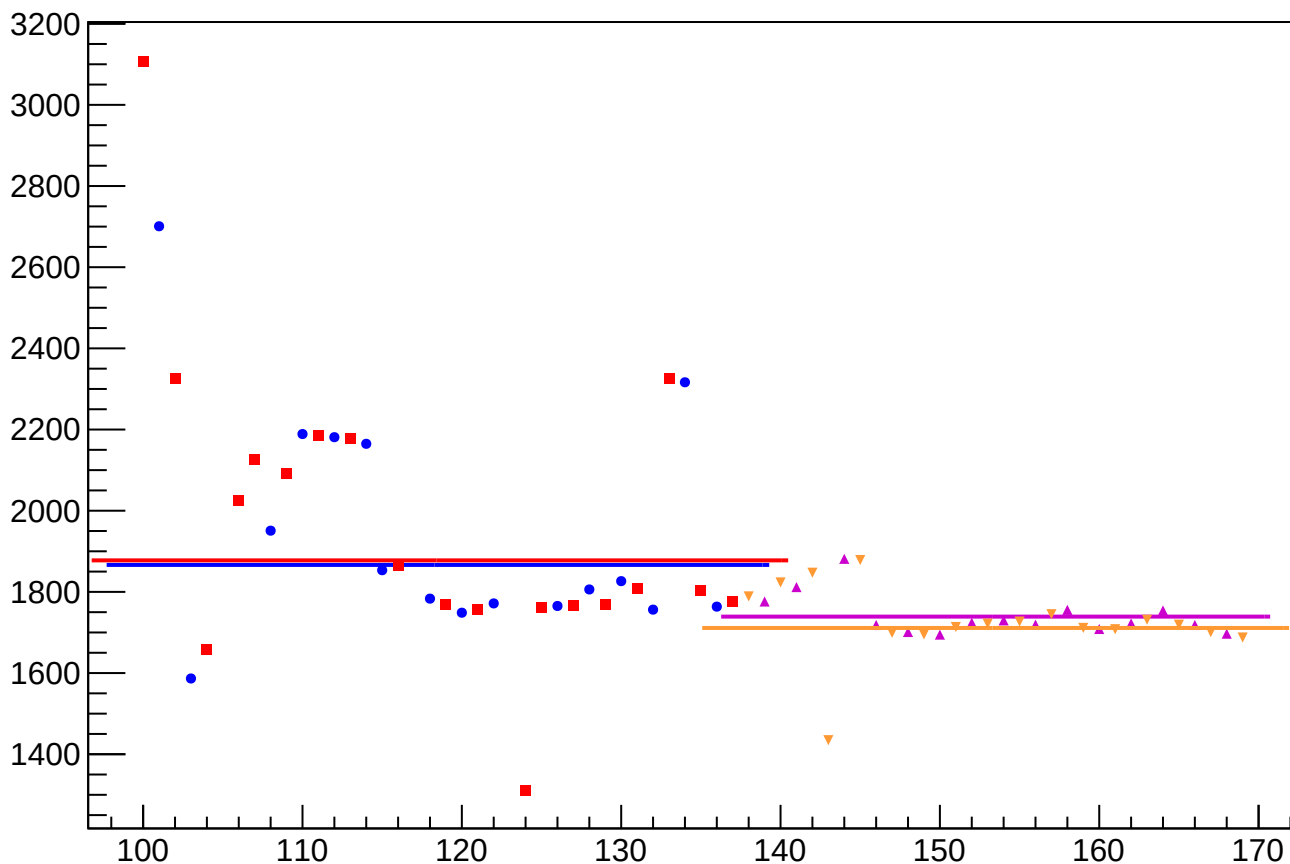
Right: -724.524+/-494.707 χ^2/NDF : 34.5/34

In: -1133.528+/-403.426 χ^2/NDF : 23.9/30

Out: 485.463+/-388.665 χ^2/NDF : 43.0/35

All: -293.871+/-279.901 χ^2/NDF : 75.2/66

eigen_dit_asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 1866.456+/-0.495 χ^2/NDF : 256262.3/15

Left Out: 1711.135+/-0.331 χ^2/NDF : 89352.1/16

Right Out: 1877.659+/-0.494 χ^2/NDF : 251850.8/18

Left In: 1739.072+/-0.349 χ^2/NDF : 18792.2/14

Left: 1724.337+/-0.240 χ^2/NDF : 111520.8/31

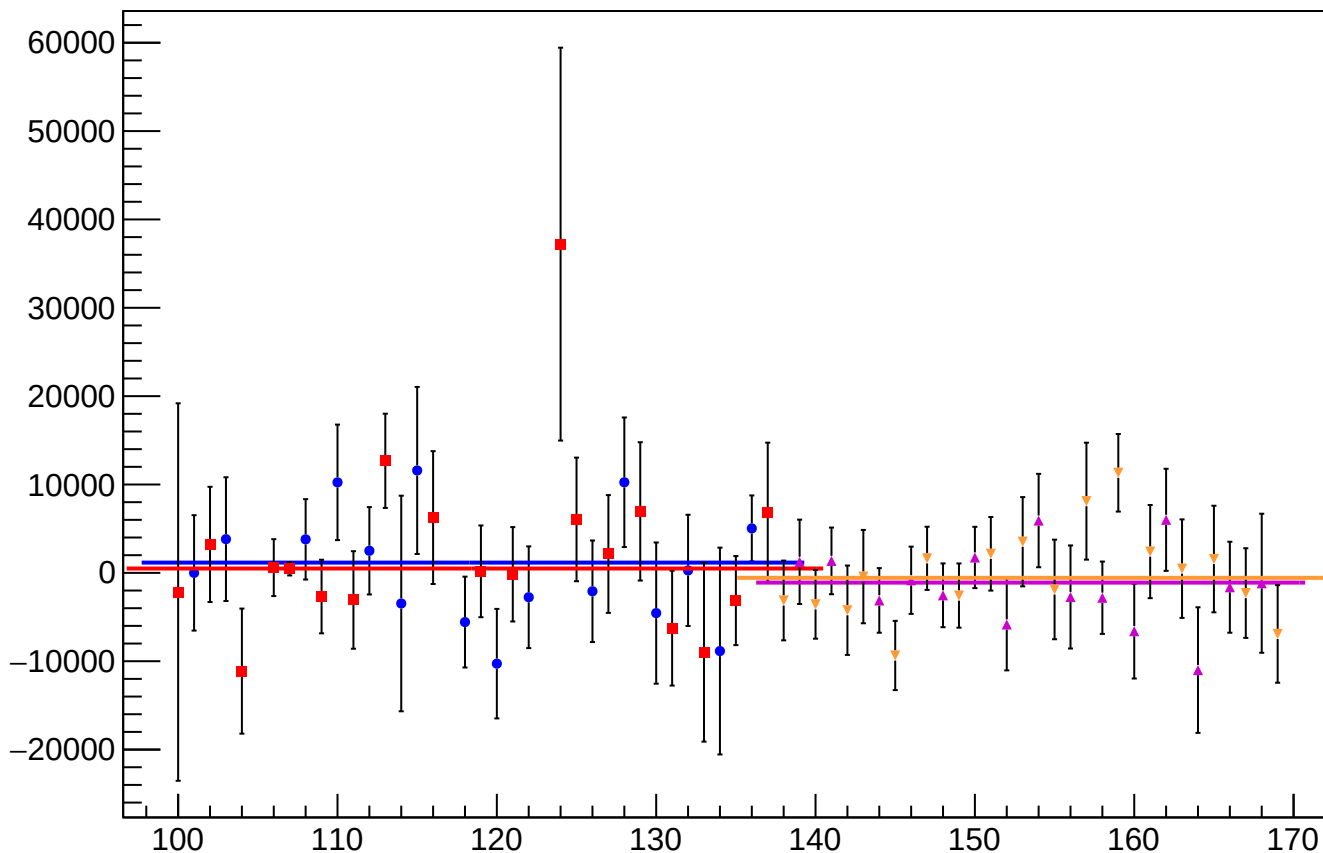
Right: 1872.061+/-0.350 χ^2/NDF : 508369.7/34

In: 1781.433+/-0.285 χ^2/NDF : 319313.4/30

Out: 1762.580+/-0.275 χ^2/NDF : 419625.4/35

All: 1771.653+/-0.198 χ^2/NDF : 741204.7/66

asym_atl1r2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1161.104+/-1512.222 χ^2/NDF : 13.7/15

Left Out: -561.971+/-1132.518 χ^2/NDF :19.3/16

Right Out: 492.914+/-658.521 χ^2/NDF : 16.9/18

Left In: -1102.167+/-1179.740 χ^2/NDF :9.2/14

Left: -821.042+/-816.995 χ^2/NDF : 28.6/31

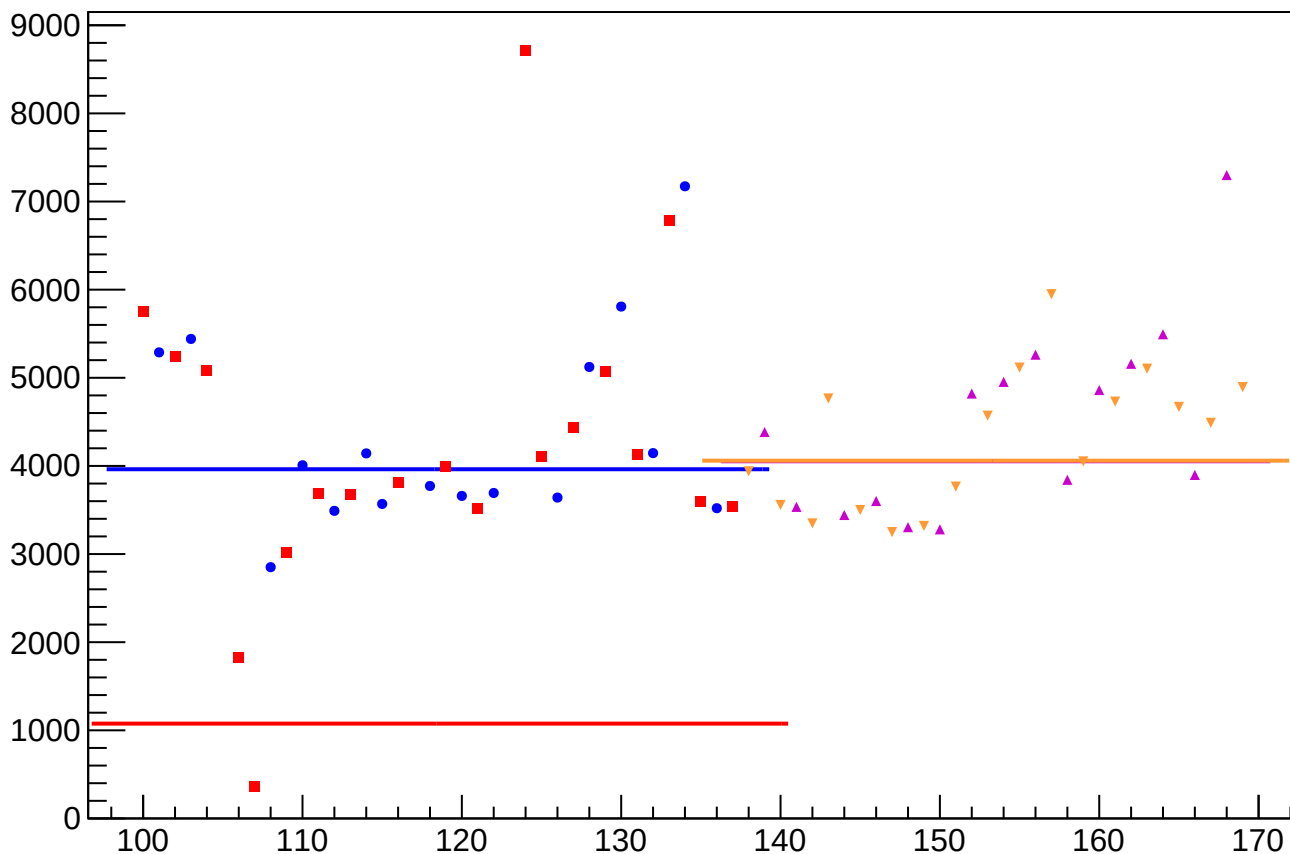
Right: 599.426+/-603.759 χ^2/NDF : 30.8/34

In: -245.867+/-930.166 χ^2/NDF :24.2/30

Out: 226.373+/-569.279 χ^2/NDF :36.9/35

All: 97.688+/-485.559 χ^2/NDF : 61.3/66

asym_atl1r2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3962.361+/-1.069 χ^2/NDF : 668335.9/15

Left Out: 4059.575+/-0.801 χ^2/NDF : 783569.2/16

Right Out: 1075.988+/-0.466 χ^2/NDF : 9558243.3/18

Left In: 4052.717+/-0.834 χ^2/NDF : 1052728.1/14

Left: 4056.286+/-0.578 χ^2/NDF : 1836332.4/31

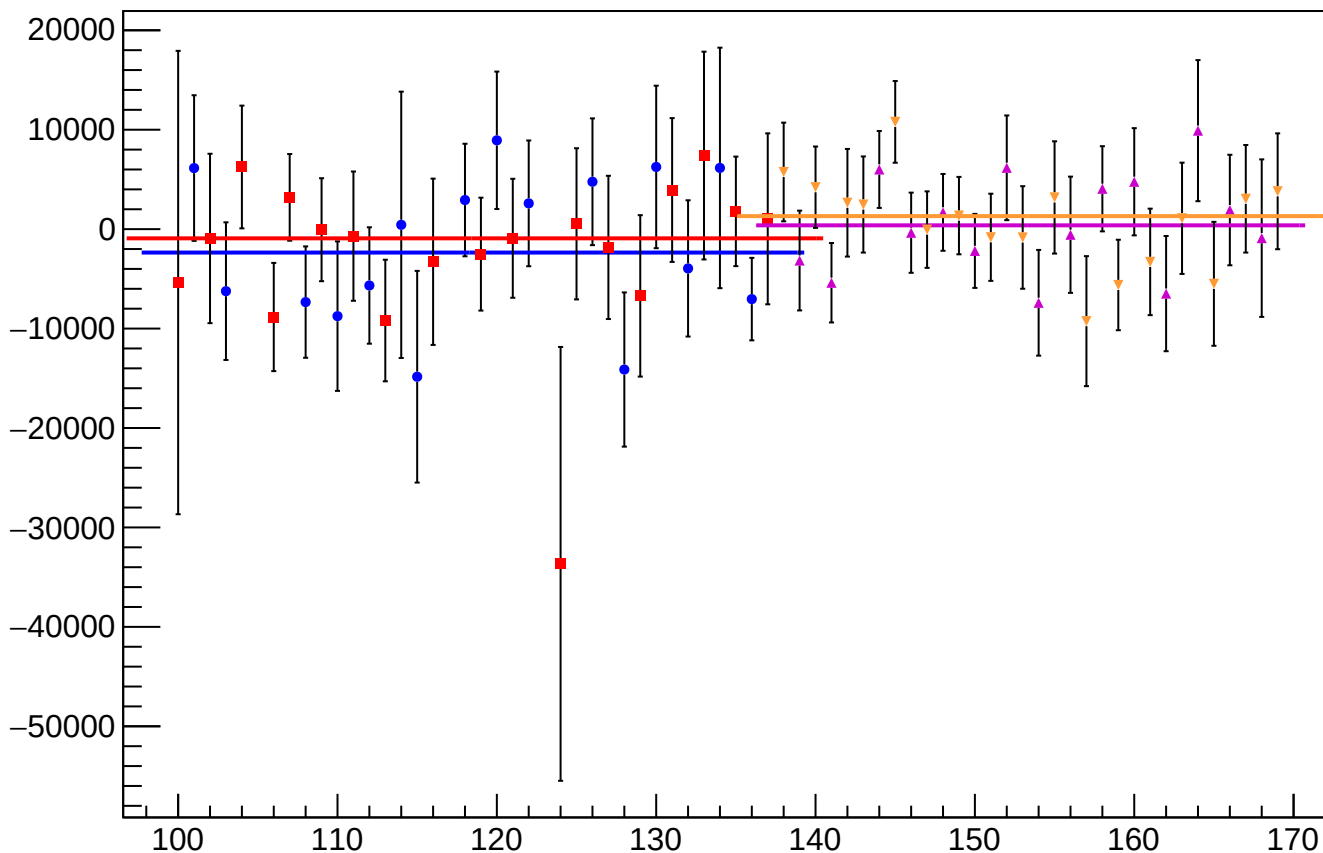
Right: 1536.084+/-0.427 χ^2/NDF : 16351375.7/34

In: 4018.531+/-0.658 χ^2/NDF : 1725502.7/30

Out: 1829.861+/-0.403 χ^2/NDF : 20715364.9/35

All: 2426.269+/-0.343 χ^2/NDF : 30496577.8/66

asym_atl1r2_dd_mean vs Slug, Sign Corrected



Right In: -2354.851 ± 1684.784 χ^2/NDF : 15.5/15

Left Out: 1309.225 ± 1179.247 χ^2/NDF : 14.5/16

Right Out: -924.896 ± 1546.889 χ^2/NDF : 10.6/18

Left In: 382.972 ± 1233.185 χ^2/NDF : 13.4/14

Left: 866.798 ± 852.284 χ^2/NDF : 28.2/31

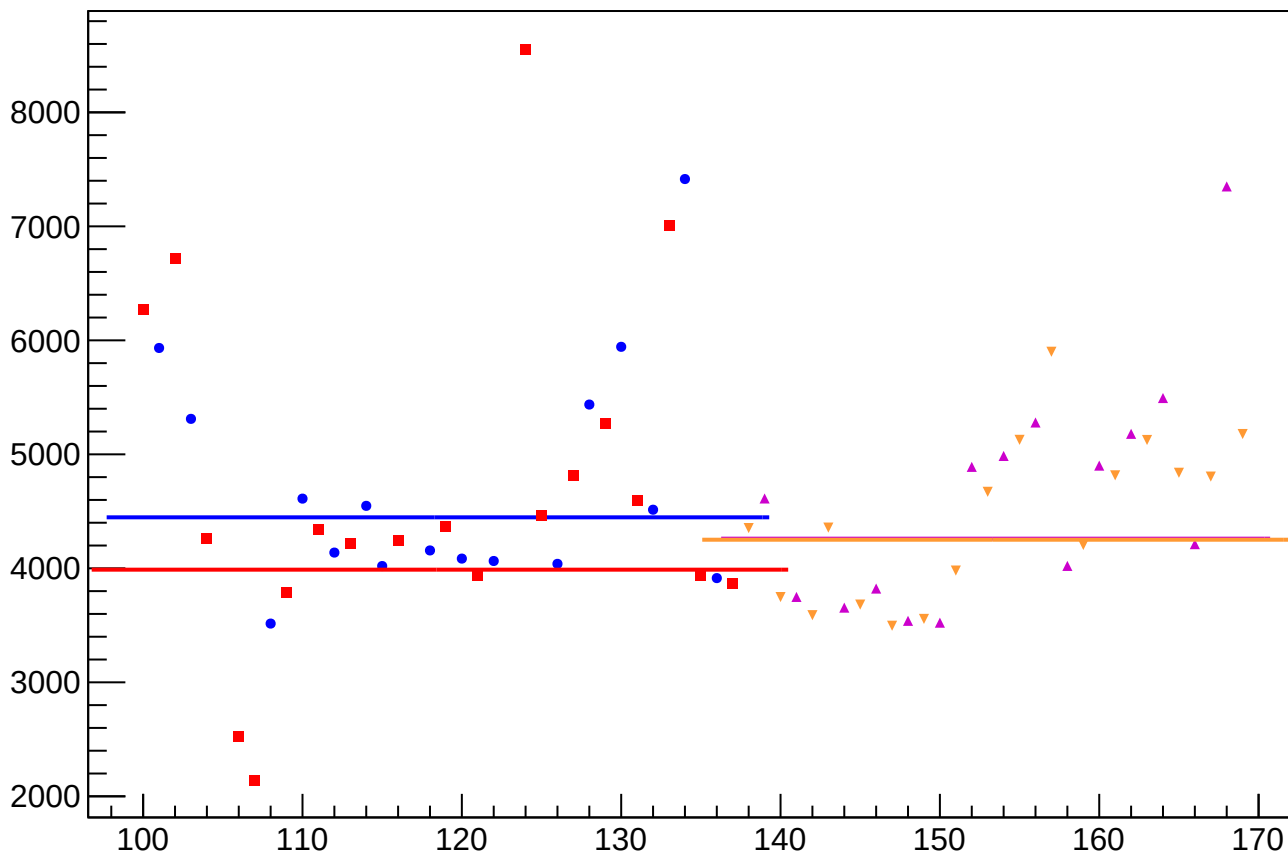
Right: -1578.969 ± 1139.452 χ^2/NDF : 26.5/34

In: -572.132 ± 995.101 χ^2/NDF : 30.7/30

Out: 488.072 ± 937.816 χ^2/NDF : 26.5/35

All: -10.637 ± 682.489 χ^2/NDF : 57.7/66

asym_atl1r2_dd_rms vs Slug, Sign Corrected



Right In: 4447.424 ± 1.191 $\chi^2/\text{NDF}: 458251.2/15$

Left Out: 4251.017 ± 0.834 $\chi^2/\text{NDF}: 598078.6/16$

Right Out: 3988.249 ± 1.083 $\chi^2/\text{NDF}: 1143932.4/18$

Left In: 4260.252 ± 0.872 $\chi^2/\text{NDF}: 839731.8/14$

Left: 4255.428 ± 0.603 $\chi^2/\text{NDF}: 1437869.0/31$

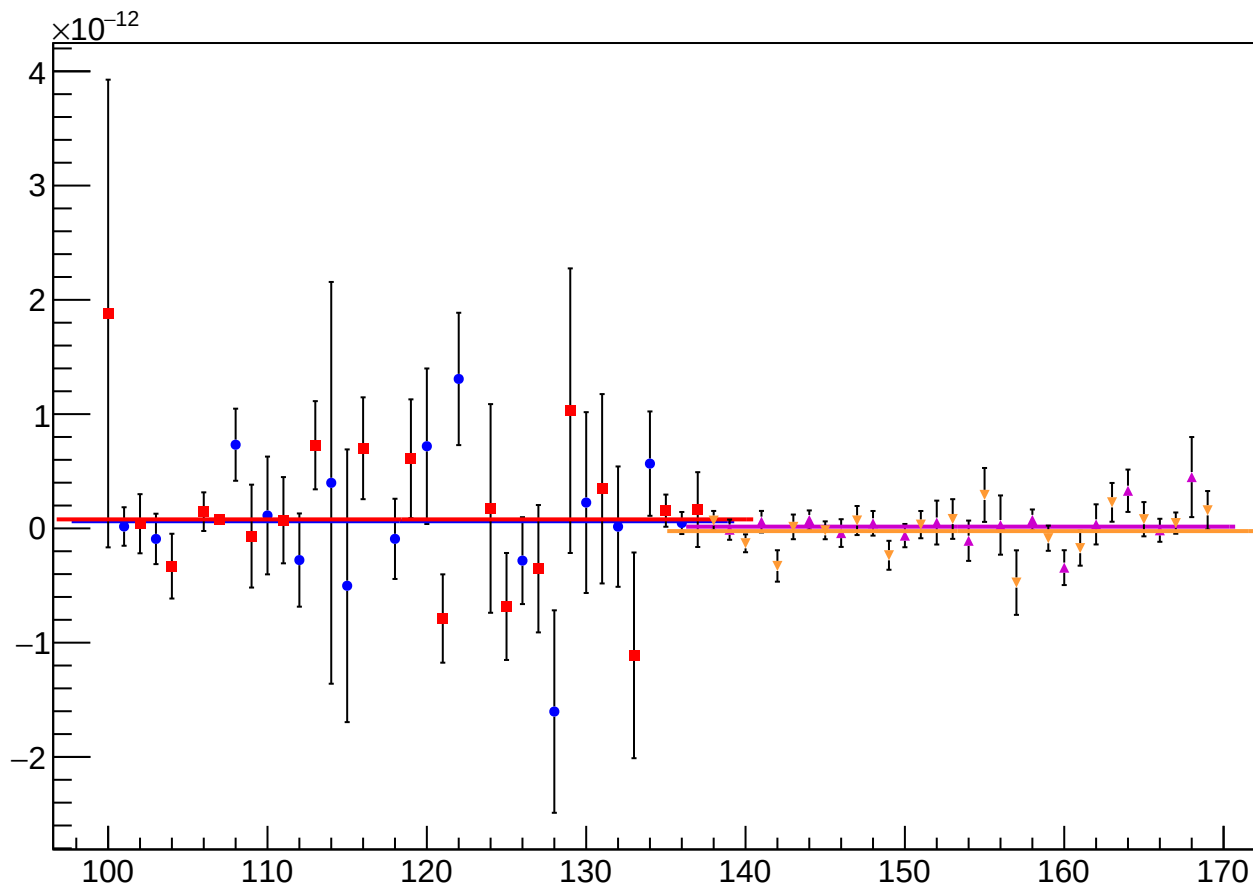
Right: 4196.010 ± 0.801 $\chi^2/\text{NDF}: 1683524.5/34$

In: 4325.548 ± 0.704 $\chi^2/\text{NDF}: 1314056.1/30$

Out: 4153.215 ± 0.661 $\chi^2/\text{NDF}: 1778971.3/35$

All: 4233.963 ± 0.482 $\chi^2/\text{NDF}: 3124905.2/66$

asym_atl1r2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 22.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 20.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 12.7/14

Left: -0.000+/-0.000 χ^2/NDF : 35.5/31

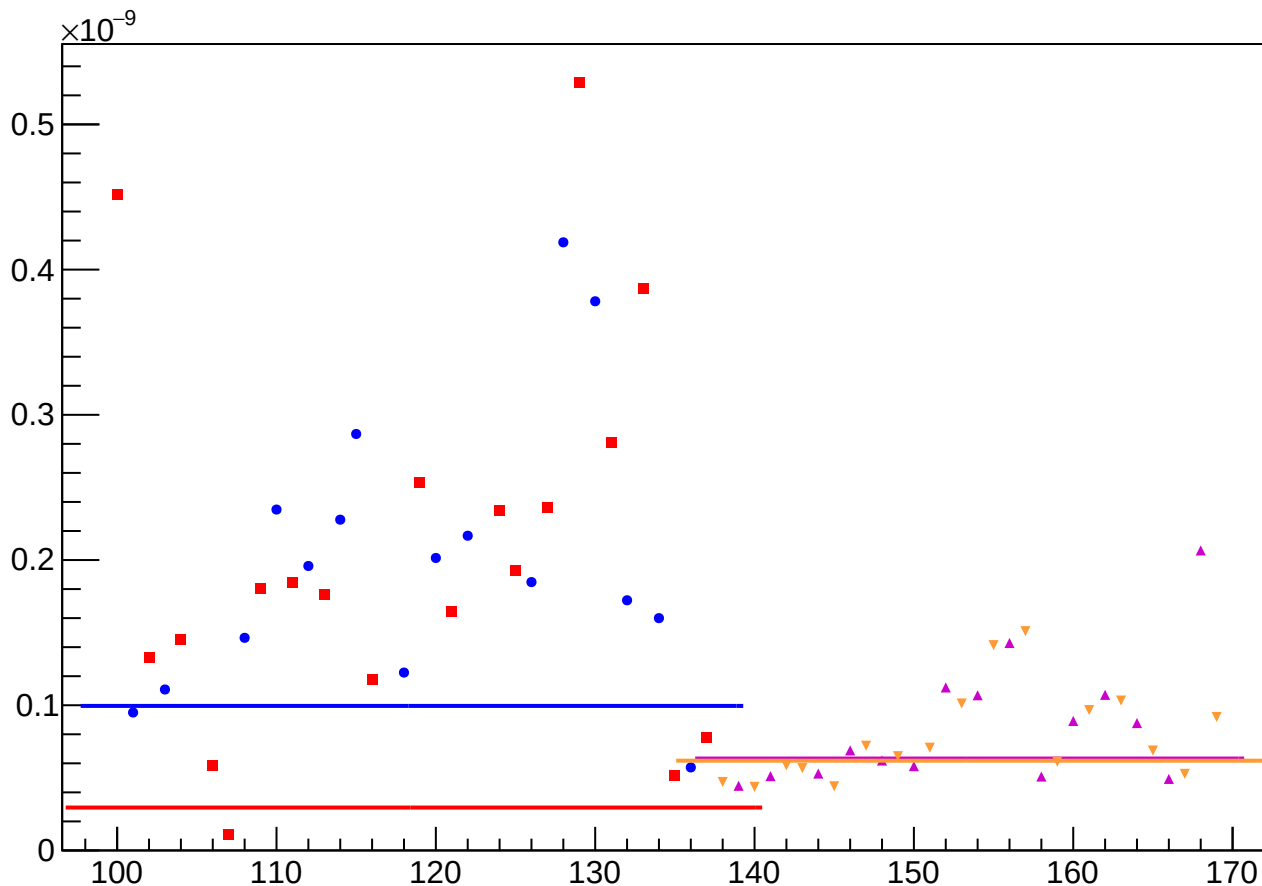
Right: 0.000+/-0.000 χ^2/NDF : 37.5/34

In: 0.000+/-0.000 χ^2/NDF : 30.5/30

Out: 0.000+/-0.000 χ^2/NDF : 47.5/35

All: 0.000+/-0.000 χ^2/NDF : 78.0/66

asym_atl1r2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1562904.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :1137628.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4363474.8/18

Left In: 0.000+/-0.000 χ^2/NDF :1230998.5/14

Left: 0.000+/-0.000 χ^2/NDF : 2371043.7/31

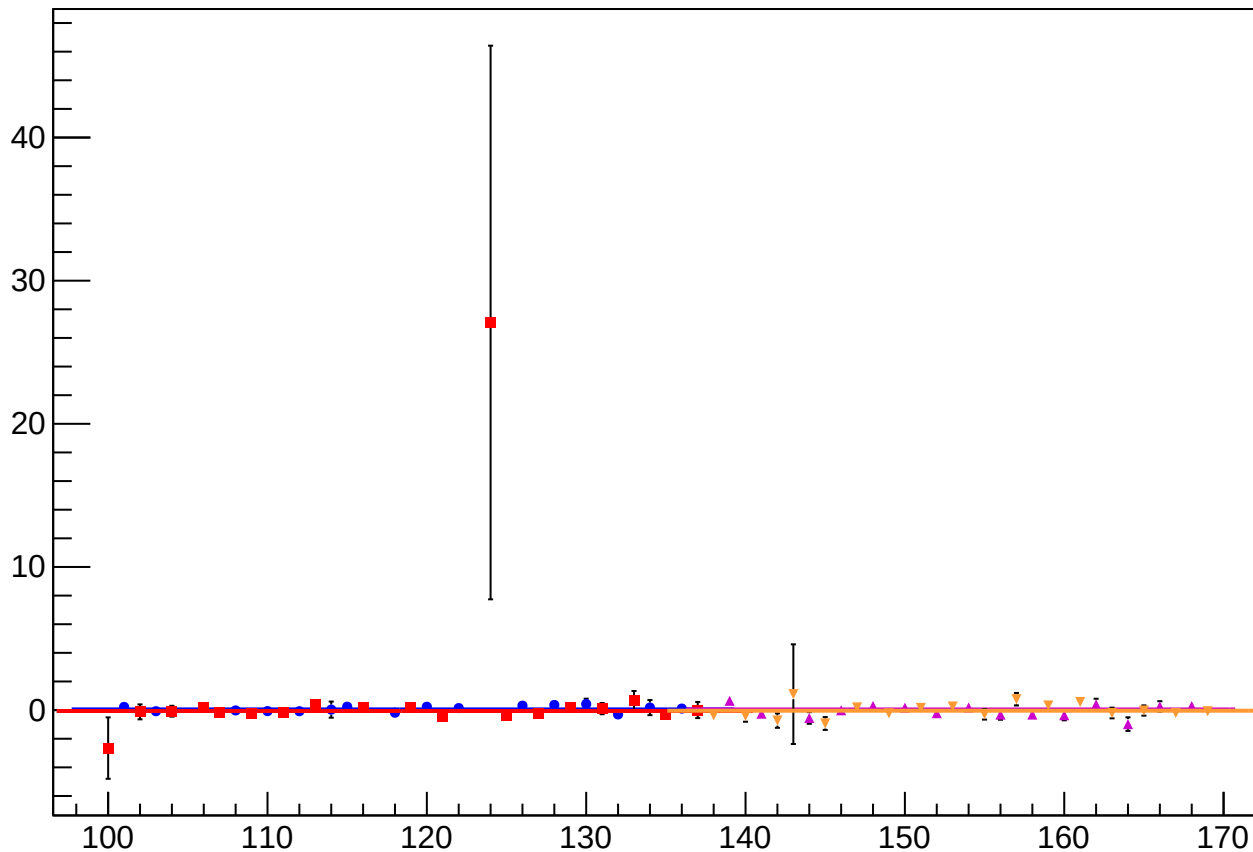
Right: 0.000+/-0.000 χ^2/NDF : 7631581.8/34

In: 0.000+/-0.000 χ^2/NDF :3263083.2/30

Out: 0.000+/-0.000 χ^2/NDF :6580913.0/35

All: 0.000+/-0.000 χ^2/NDF : 10568839.8/66

asym_atl1r2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.048 $\pm$ 0.066 χ^2 /NDF: 7.6/15

Left Out: -0.041 $\pm$ 0.079 χ^2 /NDF:19.2/16

Right Out: -0.061 $\pm$ 0.064 χ^2 /NDF: 18.4/18

Left In: 0.046 $\pm$ 0.082 χ^2 /NDF:21.3/14

Left: 0.000 $\pm$ 0.057 χ^2 /NDF: 41.1/31

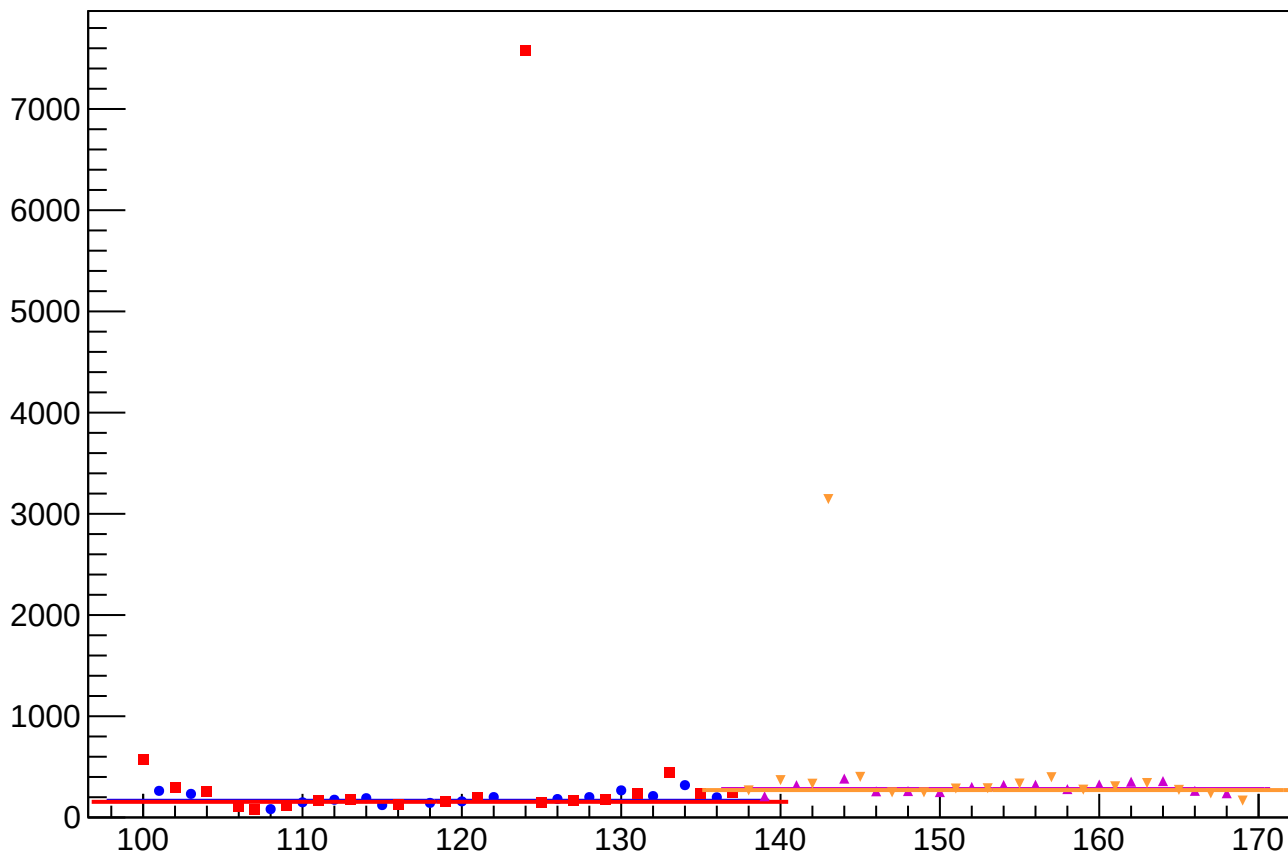
Right: -0.008 $\pm$ 0.046 χ^2 /NDF: 27.4/34

In: 0.047 $\pm$ 0.052 χ^2 /NDF:28.9/30

Out: -0.053 $\pm$ 0.050 χ^2 /NDF:37.7/35

All: -0.005 $\pm$ 0.036 χ^2 /NDF: 68.5/66

asym_atl1r2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862 $\pm$ 0.047 χ^2 /NDF: 1474718.1/15

Left Out: 270.484 $\pm$ 0.056 χ^2 /NDF:2683170.9/16

Right Out: 154.388 $\pm$ 0.046 χ^2 /NDF: 1921322.6/18

Left In: 280.992 $\pm$ 0.058 χ^2 /NDF:649779.3/14

Left: 275.519 $\pm$ 0.040 χ^2 /NDF: 3350095.5/31

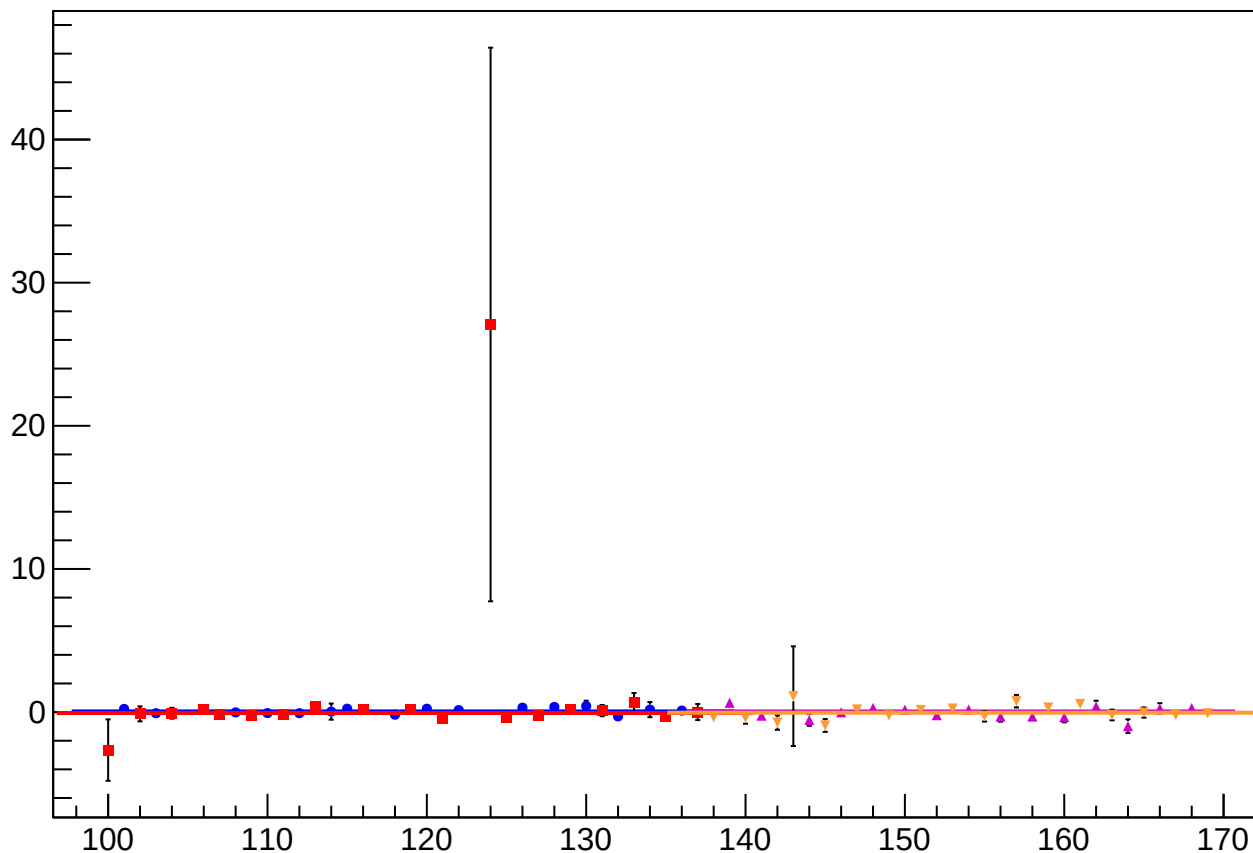
Right: 159.465 $\pm$ 0.033 χ^2 /NDF: 3421679.3/34

In: 210.921 $\pm$ 0.036 χ^2 /NDF:4550353.0/30

Out: 201.047 $\pm$ 0.035 χ^2 /NDF:7216441.8/35

All: 205.811 $\pm$ 0.025 χ^2 /NDF: 11804718.2/66

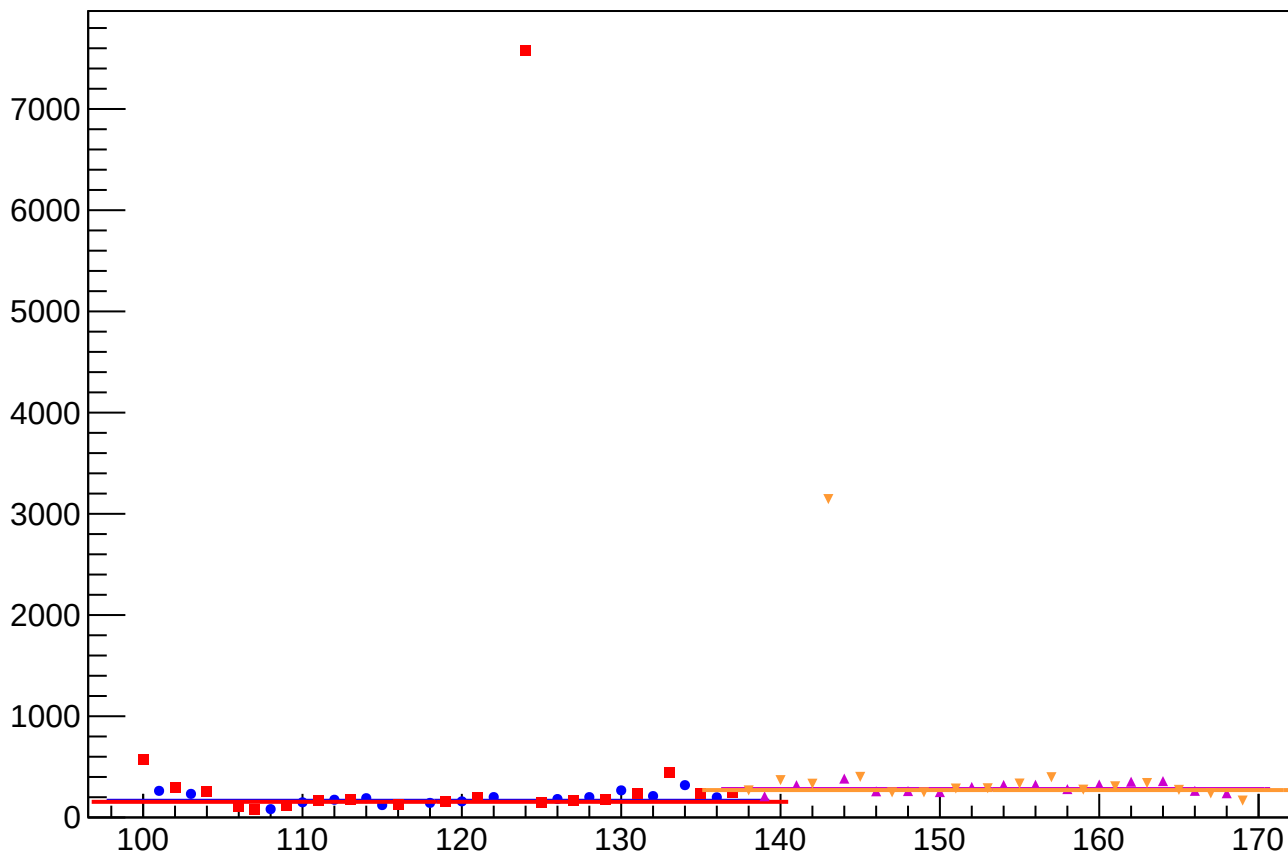
asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.048 $\pm$ 0.066 χ^2 /NDF: 7.6/15
 Left Out: -0.041 $\pm$ 0.079 χ^2 /NDF:19.2/16
 Right Out: -0.061 $\pm$ 0.064 χ^2 /NDF: 18.4/18
 Left In: 0.046 $\pm$ 0.082 χ^2 /NDF:21.3/14

Left: 0.000 $\pm$ 0.057 χ^2 /NDF: 41.1/31
 Right: -0.008 $\pm$ 0.046 χ^2 /NDF: 27.4/34
 In: 0.047 $\pm$ 0.052 χ^2 /NDF:28.9/30
 Out: -0.053 $\pm$ 0.050 χ^2 /NDF:37.7/35
 All: -0.005 $\pm$ 0.036 χ^2 /NDF: 68.5/66

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862 $\pm$ 0.047 χ^2 /NDF: 1474718.1/15

Left Out: 270.484 $\pm$ 0.056 χ^2 /NDF:2683170.9/16

Right Out: 154.388 $\pm$ 0.046 χ^2 /NDF: 1921322.6/18

Left In: 280.992 $\pm$ 0.058 χ^2 /NDF:649779.3/14

Left: 275.519 $\pm$ 0.040 χ^2 /NDF: 3350095.5/31

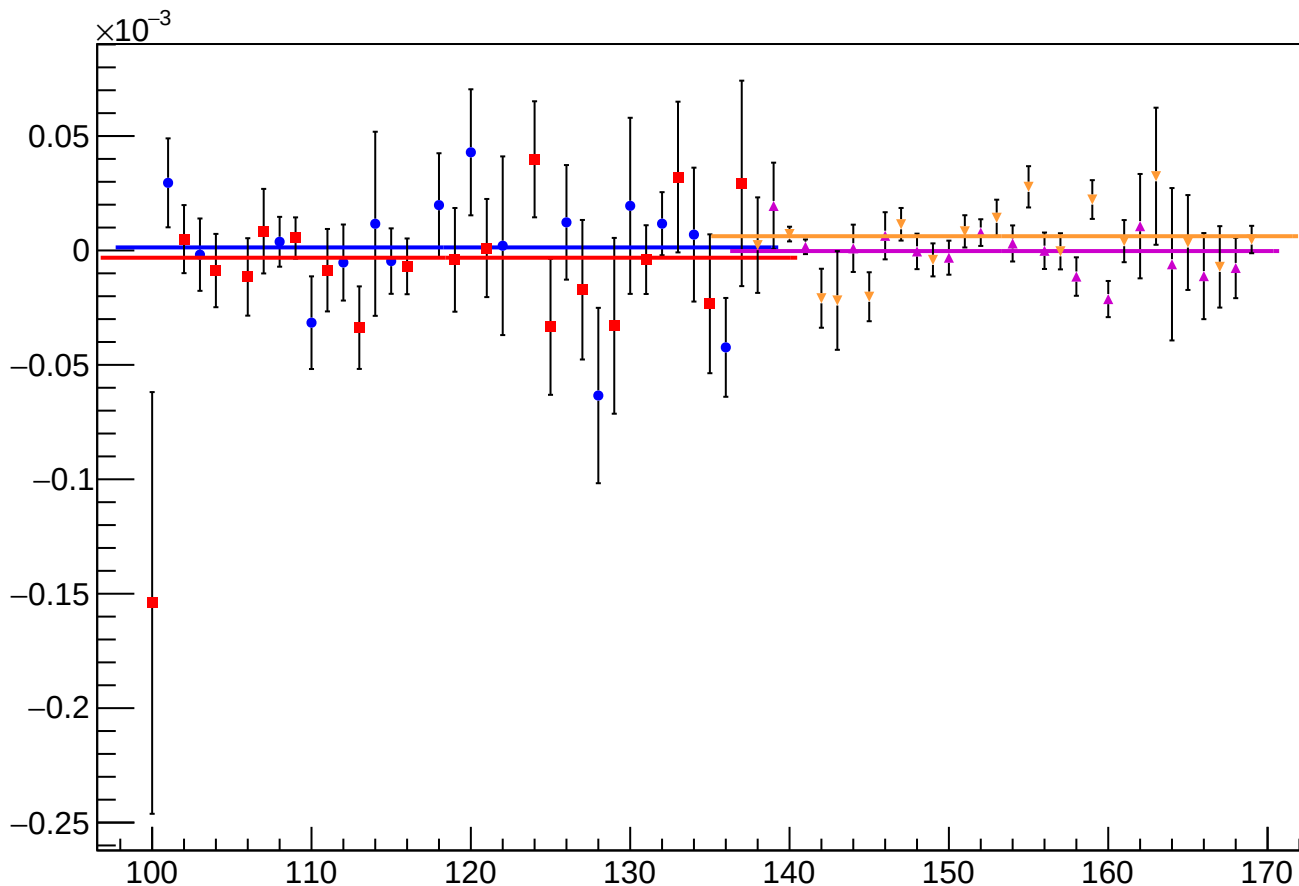
Right: 159.465 $\pm$ 0.033 χ^2 /NDF: 3421679.3/34

In: 210.921 $\pm$ 0.036 χ^2 /NDF:4550353.0/30

Out: 201.047 $\pm$ 0.035 χ^2 /NDF:7216441.8/35

All: 205.811 $\pm$ 0.025 χ^2 /NDF: 11804718.2/66

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 27.5/16

Right Out: -0.000+/-0.000 χ^2/NDF : 14.6/18

Left In: -0.000+/-0.000 χ^2/NDF : 13.8/14

Left: 0.000+/-0.000 χ^2/NDF : 47.0/31

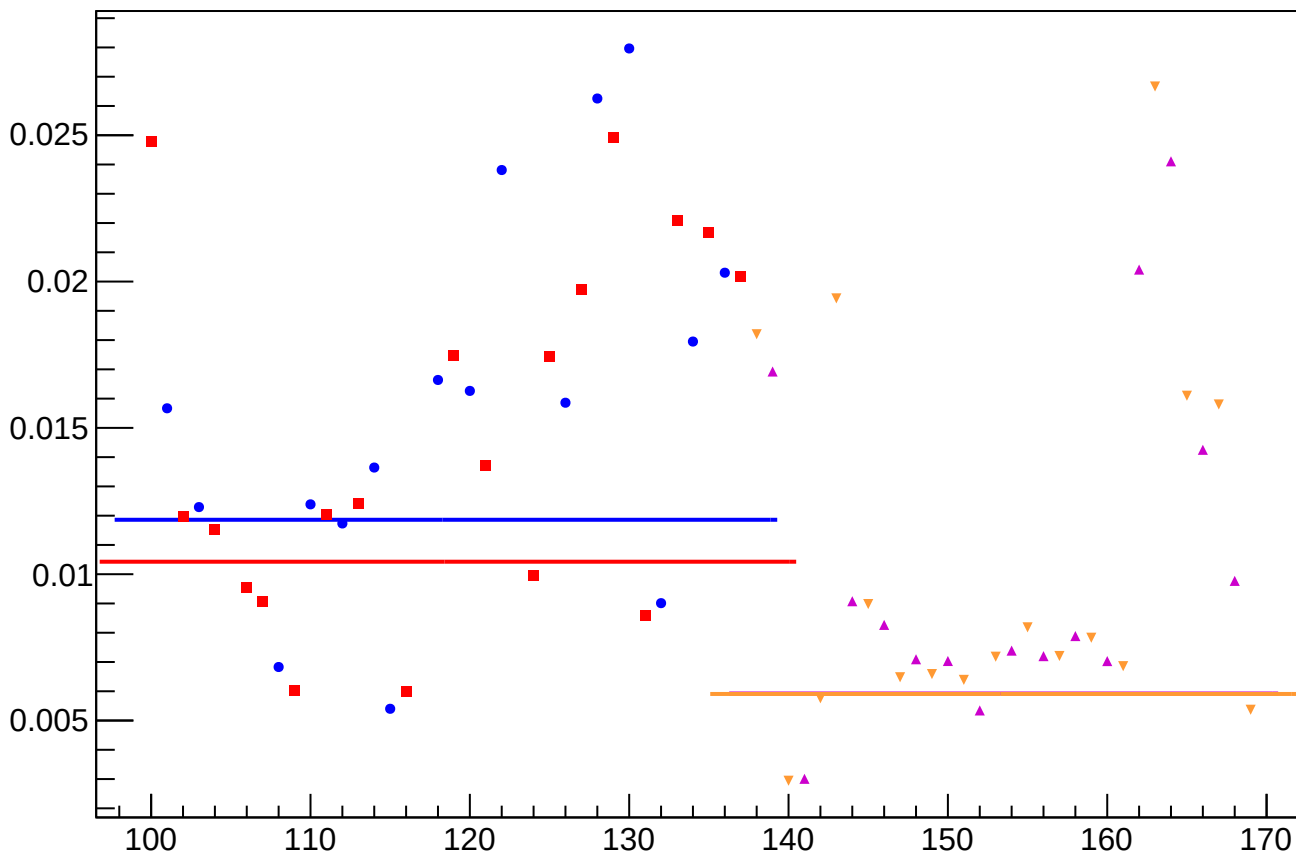
Right: -0.000+/-0.000 χ^2/NDF : 31.2/34

In: -0.000+/-0.000 χ^2/NDF : 30.0/30

Out: 0.000+/-0.000 χ^2/NDF : 46.2/35

All: 0.000+/-0.000 χ^2/NDF : 79.8/66

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2407192.9/15

Left Out: 0.006+/-0.000 χ^2/NDF : 5824672.5/16

Right Out: 0.010+/-0.000 χ^2/NDF : 2355101.8/18

Left In: 0.006+/-0.000 χ^2/NDF : 4965643.0/14

Left: 0.006+/-0.000 χ^2/NDF : 10790389.0/31

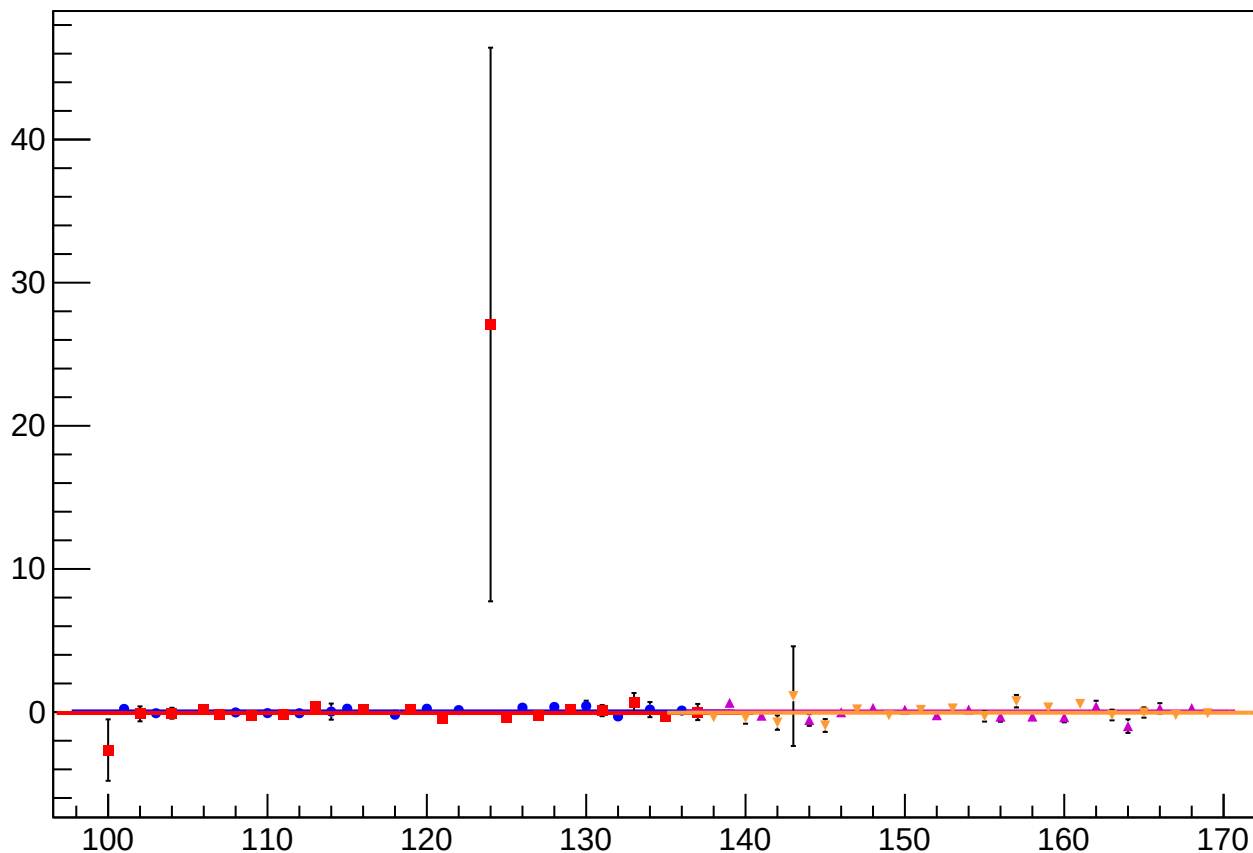
Right: 0.011+/-0.000 χ^2/NDF : 4860752.3/34

In: 0.007+/-0.000 χ^2/NDF : 9920977.6/30

Out: 0.007+/-0.000 χ^2/NDF : 10076556.0/35

All: 0.007+/-0.000 χ^2/NDF : 20000899.9/66

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.048 $\pm$ 0.066 χ^2 /NDF: 7.6/15

Left Out: -0.041 $\pm$ 0.079 χ^2 /NDF:19.2/16

Right Out: -0.061 $\pm$ 0.064 χ^2 /NDF: 18.4/18

Left In: 0.046 $\pm$ 0.082 χ^2 /NDF:21.3/14

Left: 0.000 $\pm$ 0.057 χ^2 /NDF: 41.1/31

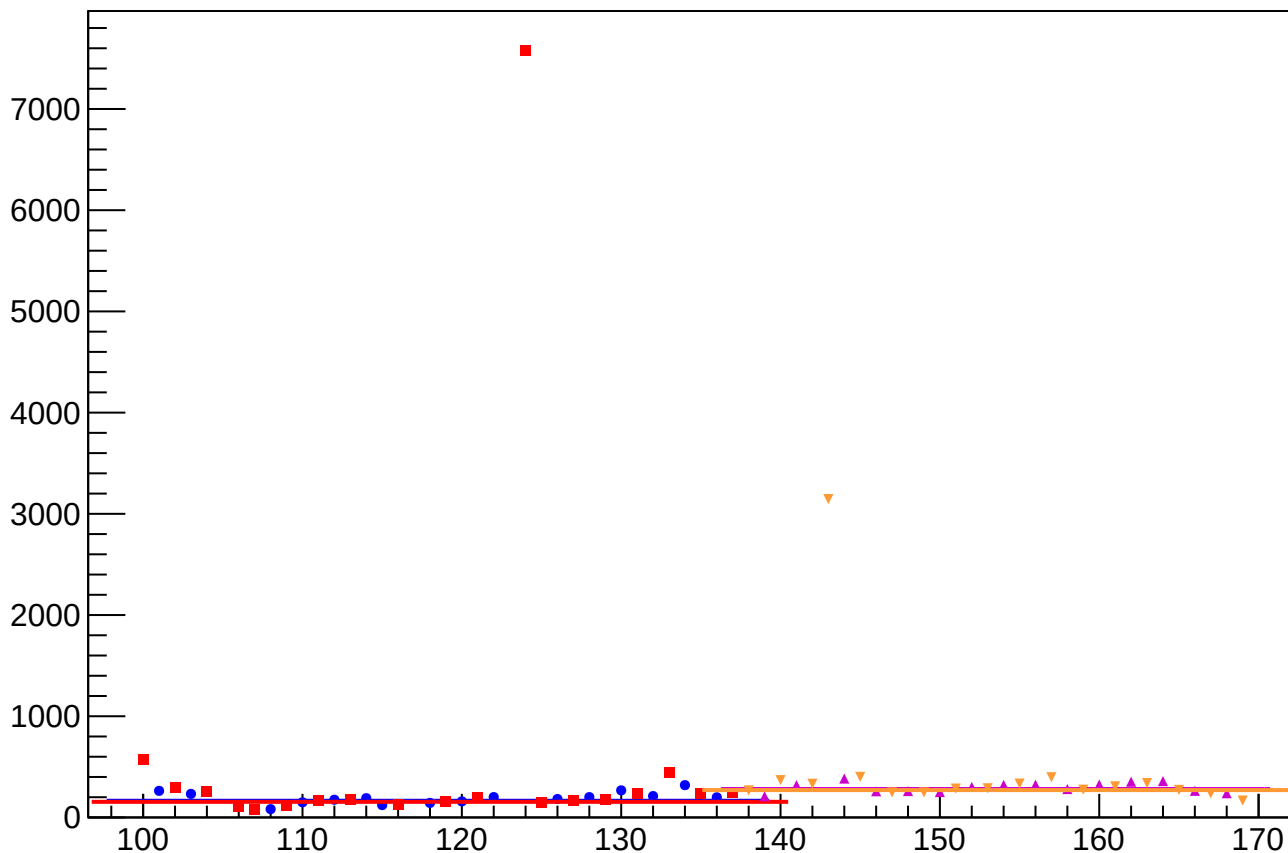
Right: -0.008 $\pm$ 0.046 χ^2 /NDF: 27.4/34

In: 0.047 $\pm$ 0.052 χ^2 /NDF:28.9/30

Out: -0.053 $\pm$ 0.050 χ^2 /NDF:37.7/35

All: -0.005 $\pm$ 0.036 χ^2 /NDF: 68.5/66

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862+/-0.047 χ^2/NDF : 1474692.6/15

Left Out: 270.486+/-0.056 χ^2/NDF :2683236.0/16

Right Out: 154.388+/-0.046 χ^2/NDF : 1921346.3/18

Left In: 280.997+/-0.058 χ^2/NDF :649759.4/14

Left: 275.523+/-0.040 χ^2/NDF : 3350146.6/31

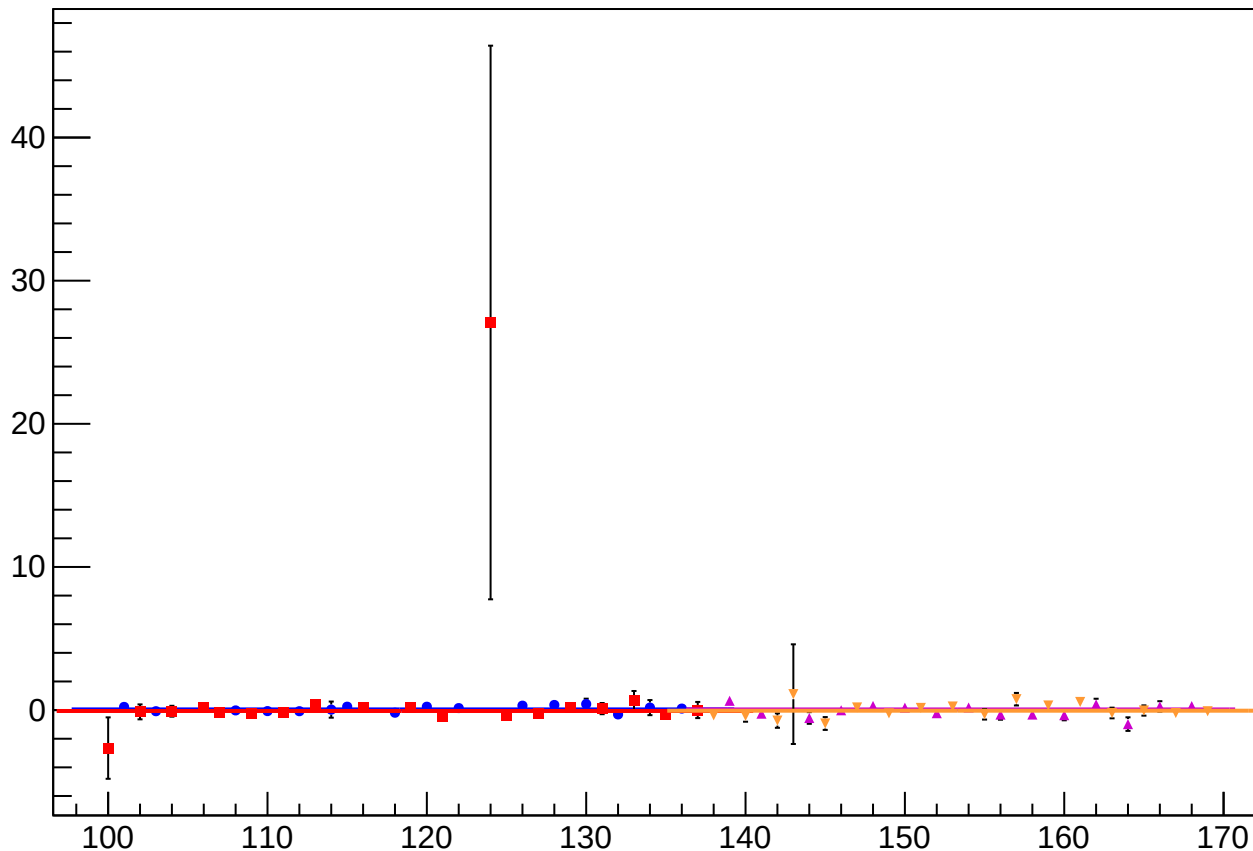
Right: 159.464+/-0.033 χ^2/NDF : 3421678.1/34

In: 210.921+/-0.036 χ^2/NDF :4550462.9/30

Out: 201.047+/-0.035 χ^2/NDF :7216626.0/35

All: 205.811+/-0.025 χ^2/NDF : 11805015.1/60

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.048 ± 0.066 $\chi^2/\text{NDF}: 7.6/15$

Left Out: -0.041 ± 0.079 $\chi^2/\text{NDF}: 19.2/16$

Right Out: -0.061 ± 0.064 $\chi^2/\text{NDF}: 18.4/18$

Left In: 0.046 ± 0.082 $\chi^2/\text{NDF}: 21.3/14$

Left: 0.000 ± 0.057 $\chi^2/\text{NDF}: 41.1/31$

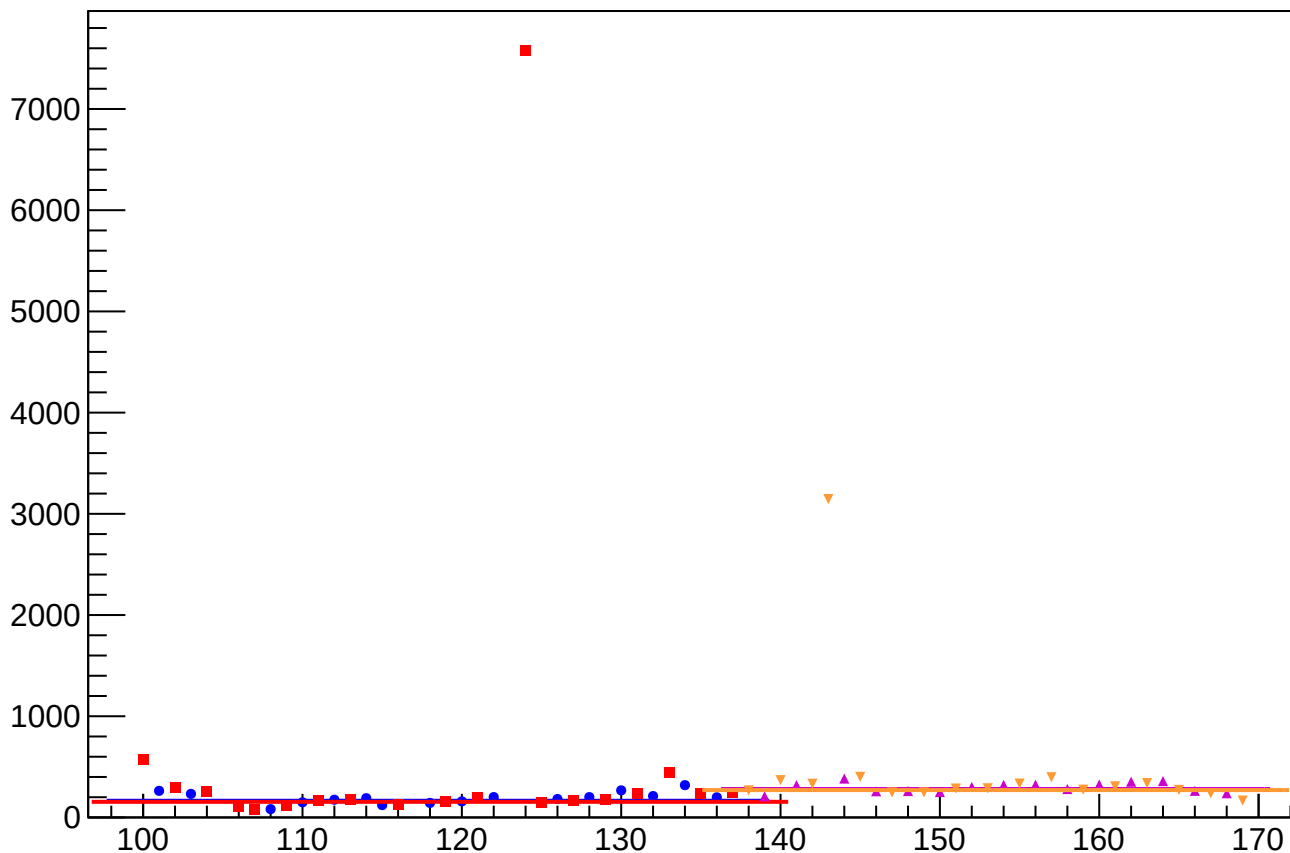
Right: -0.008 ± 0.046 $\chi^2/\text{NDF}: 27.4/34$

In: 0.047 ± 0.052 $\chi^2/\text{NDF}: 28.9/30$

Out: -0.053 ± 0.050 $\chi^2/\text{NDF}: 37.7/35$

All: -0.005 ± 0.036 $\chi^2/\text{NDF}: 68.5/66$

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 164.862+/-0.047 χ^2/NDF : 1474692.6/15

Left Out: 270.486+/-0.056 χ^2/NDF :2683236.0/16

Right Out: 154.388+/-0.046 χ^2/NDF : 1921346.3/18

Left In: 280.997+/-0.058 χ^2/NDF :649759.4/14

Left: 275.523+/-0.040 χ^2/NDF : 3350146.6/31

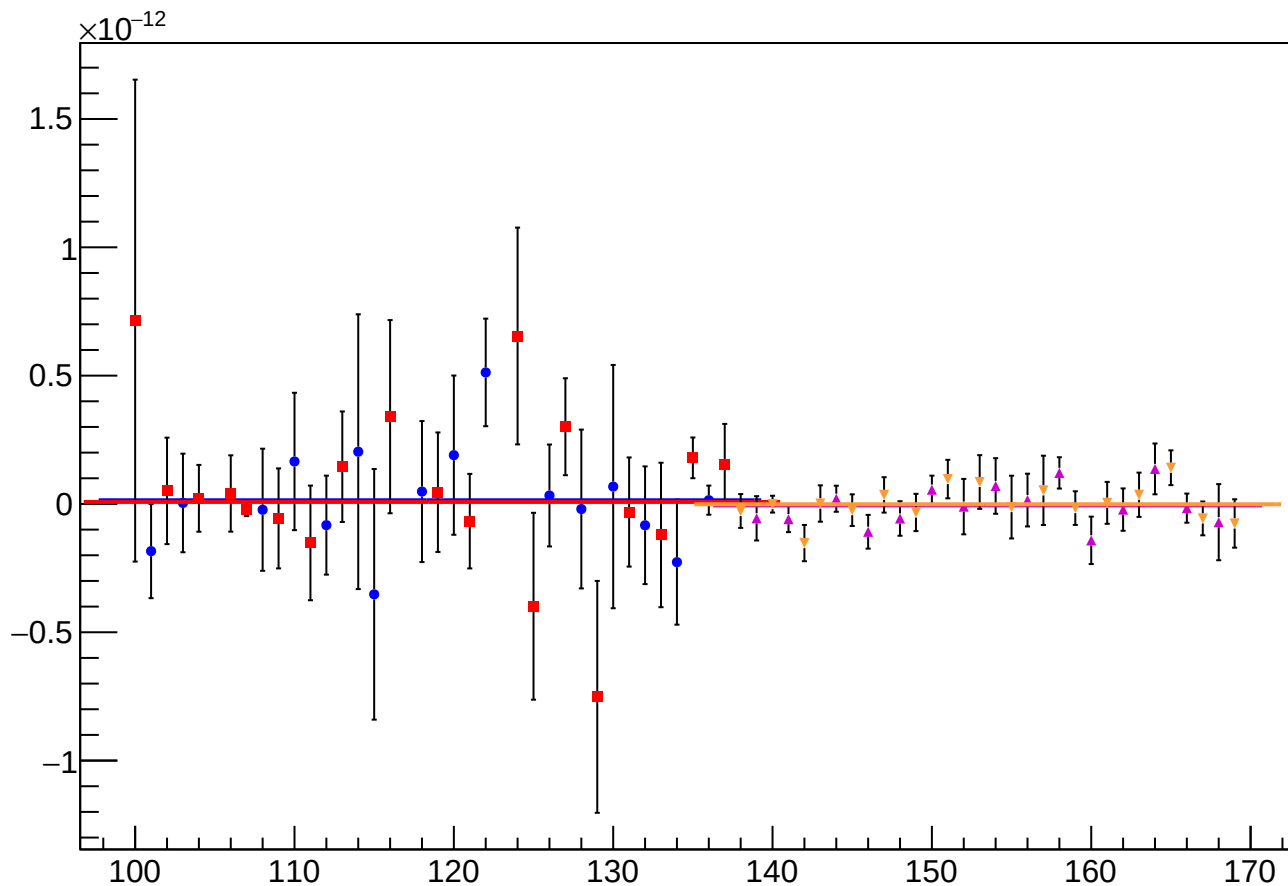
Right: 159.464+/-0.033 χ^2/NDF : 3421678.1/34

In: 210.921+/-0.036 χ^2/NDF :4550462.9/30

Out: 201.047+/-0.035 χ^2/NDF :7216626.0/35

All: 205.811+/-0.025 χ^2/NDF : 11805015.1/60

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9.6/15

Left Out: -0.000+/-0.000 χ^2/NDF :13.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 18.4/18

Left In: -0.000+/-0.000 χ^2/NDF :15.3/14

Left: -0.000+/-0.000 χ^2/NDF : 29.3/31

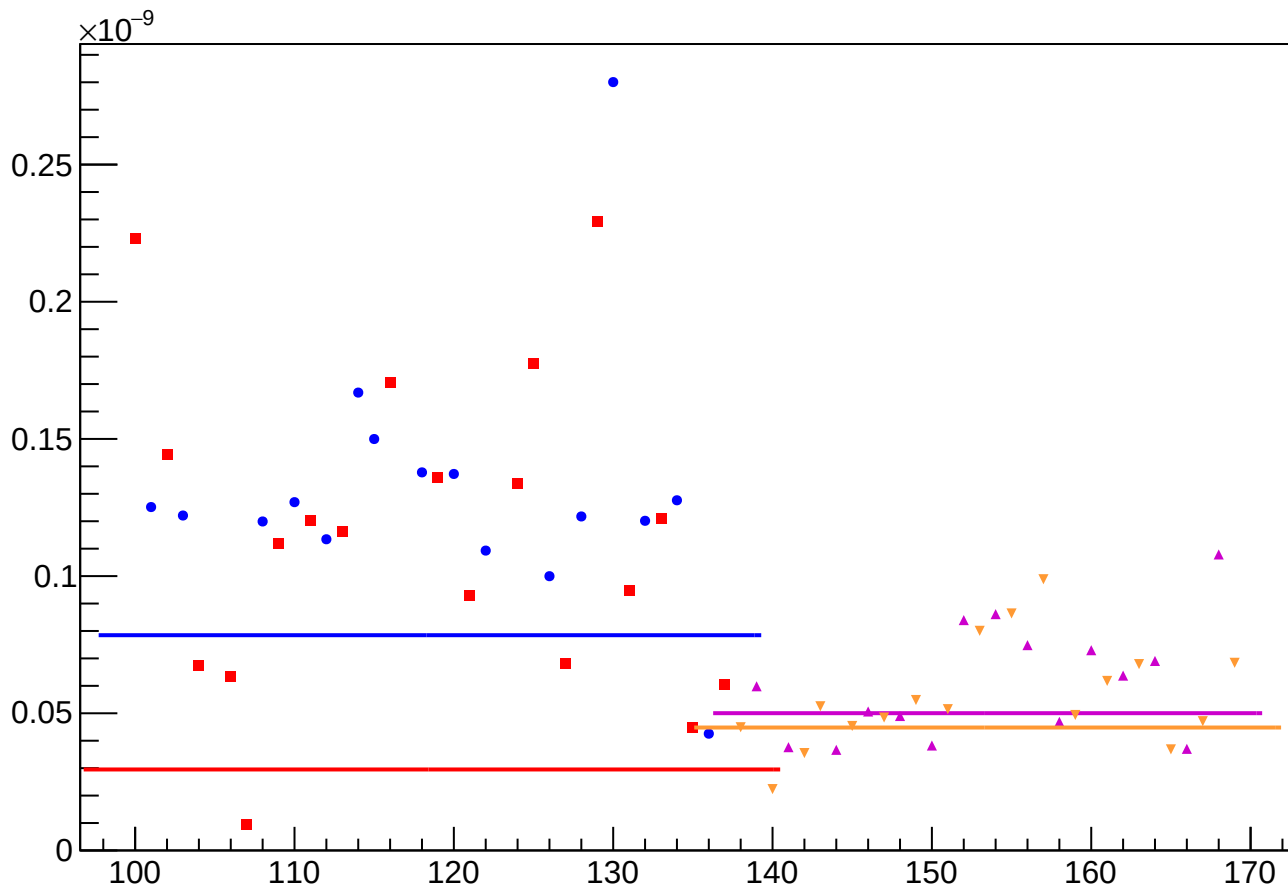
Right: 0.000+/-0.000 χ^2/NDF : 28.0/34

In: -0.000+/-0.000 χ^2/NDF :25.2/30

Out: 0.000+/-0.000 χ^2/NDF :32.4/35

All: 0.000+/-0.000 χ^2/NDF : 57.6/66

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2103056.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2228126.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 5487361.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 1580914.5/14

Left: 0.000+/-0.000 χ^2/NDF : 3898751.0/31

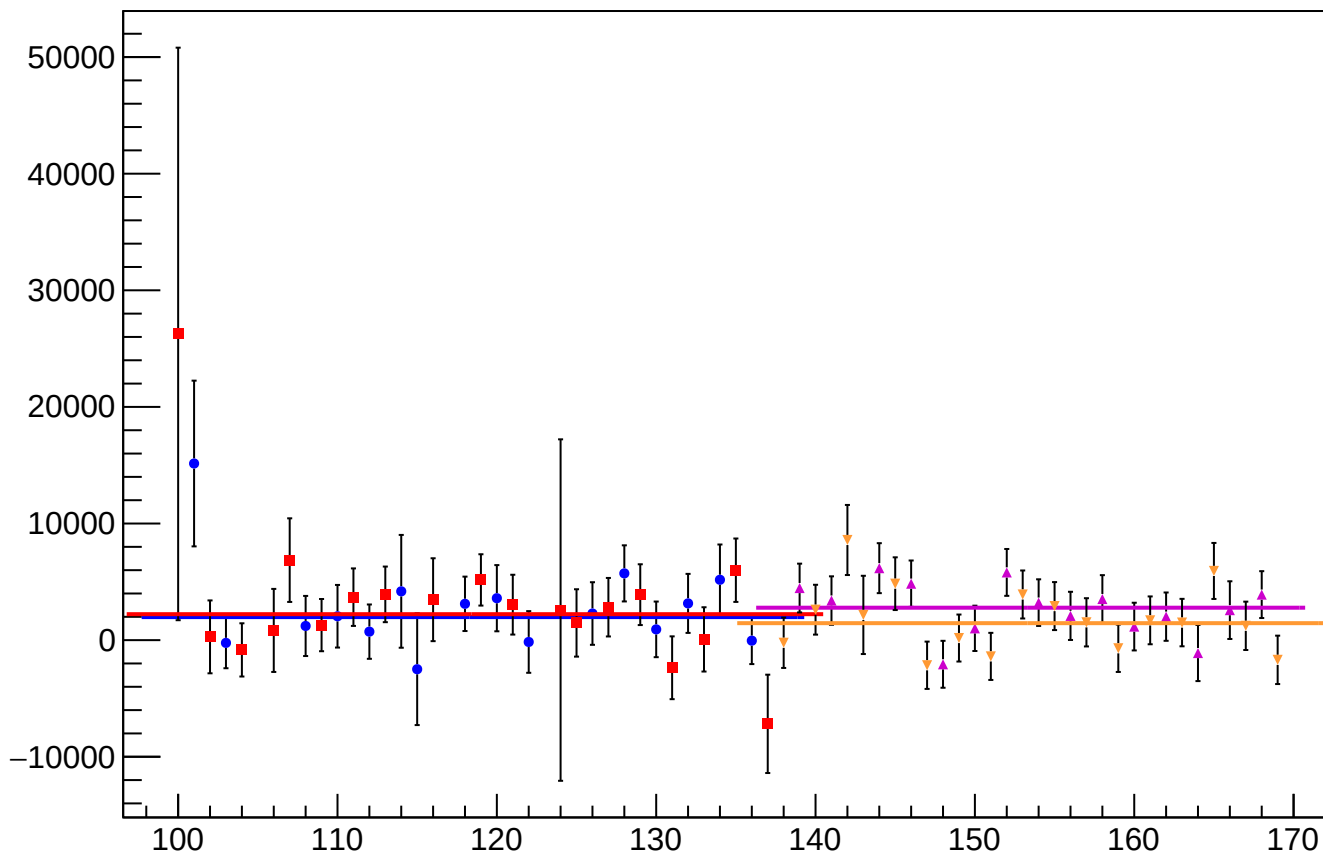
Right: 0.000+/-0.000 χ^2/NDF : 9651358.8/34

In: 0.000+/-0.000 χ^2/NDF : 4440233.5/30

Out: 0.000+/-0.000 χ^2/NDF : 8302008.7/35

All: 0.000+/-0.000 χ^2/NDF : 13703411.6/66

reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1976.299+/-667.710 χ^2/NDF : 12.1/15

Left Out: 1455.860+/-524.897 χ^2/NDF : 23.2/16

Right Out: 2226.171+/-656.286 χ^2/NDF : 19.0/18

Left In: 2781.417+/-536.823 χ^2/NDF : 17.2/14

Left: 2103.751+/-375.304 χ^2/NDF : 43.6/31

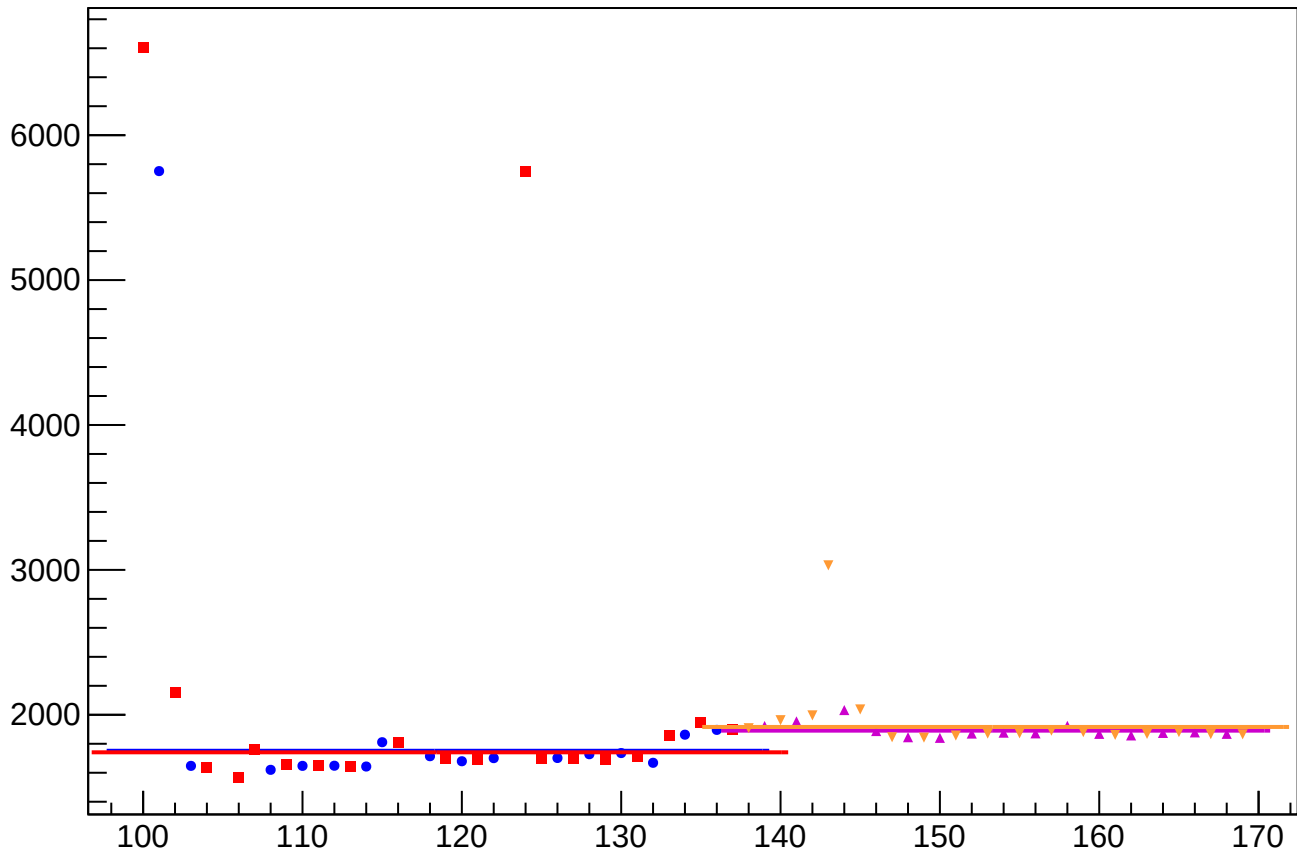
Right: 2103.390+/-468.051 χ^2/NDF : 31.2/34

In: 2465.322+/-418.376 χ^2/NDF : 30.2/30

Out: 1756.377+/-409.916 χ^2/NDF : 43.1/35

All: 2103.610+/-292.799 χ^2/NDF : 74.7/66

reg_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1751.607 ± 0.472 $\chi^2/\text{NDF}: 670651.4/15$

Left Out: 1916.025 ± 0.371 $\chi^2/\text{NDF}: 244114.9/16$

Right Out: 1741.052 ± 0.461 $\chi^2/\text{NDF}: 304655.0/18$

Left In: 1890.636 ± 0.380 $\chi^2/\text{NDF}: 15600.9/14$

Left: 1903.616 ± 0.265 $\chi^2/\text{NDF}: 262002.7/31$

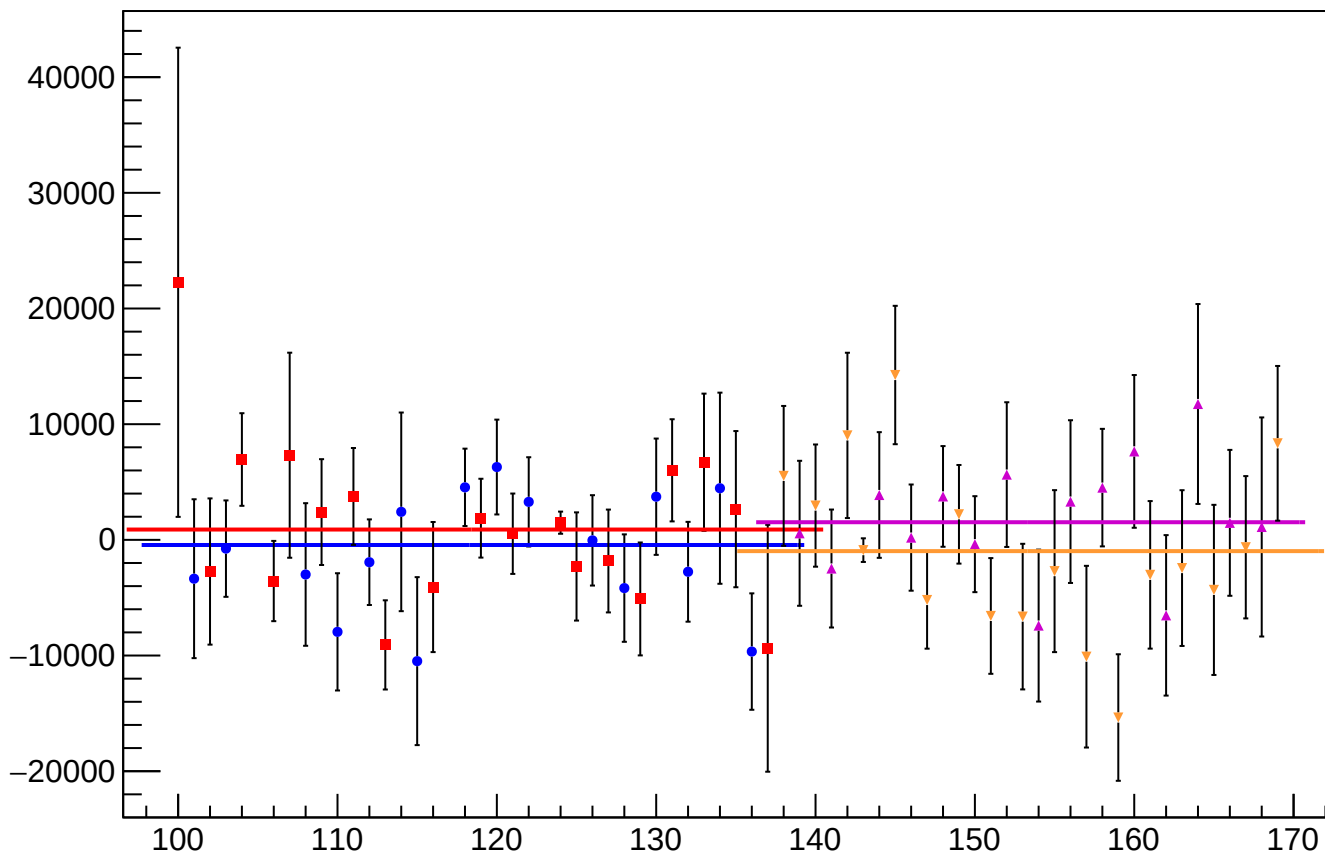
Right: 1746.199 ± 0.330 $\chi^2/\text{NDF}: 975562.4/34$

In: 1836.052 ± 0.296 $\chi^2/\text{NDF}: 738919.5/30$

Out: 1847.148 ± 0.289 $\chi^2/\text{NDF}: 636253.1/35$

All: 1841.730 ± 0.207 $\chi^2/\text{NDF}: 1375892.3/66$

asym_atr1l2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -444.273+/-1174.448 χ^2/NDF : 15.9/15

Left Out: -974.114+/-836.808 χ^2/NDF : 24.4/16

Right Out: 892.237+/-725.737 χ^2/NDF : 20.1/18

Left In: 1524.248+/-1478.835 χ^2/NDF : 7.7/14

Left: -368.174+/-728.294 χ^2/NDF : 34.3/31

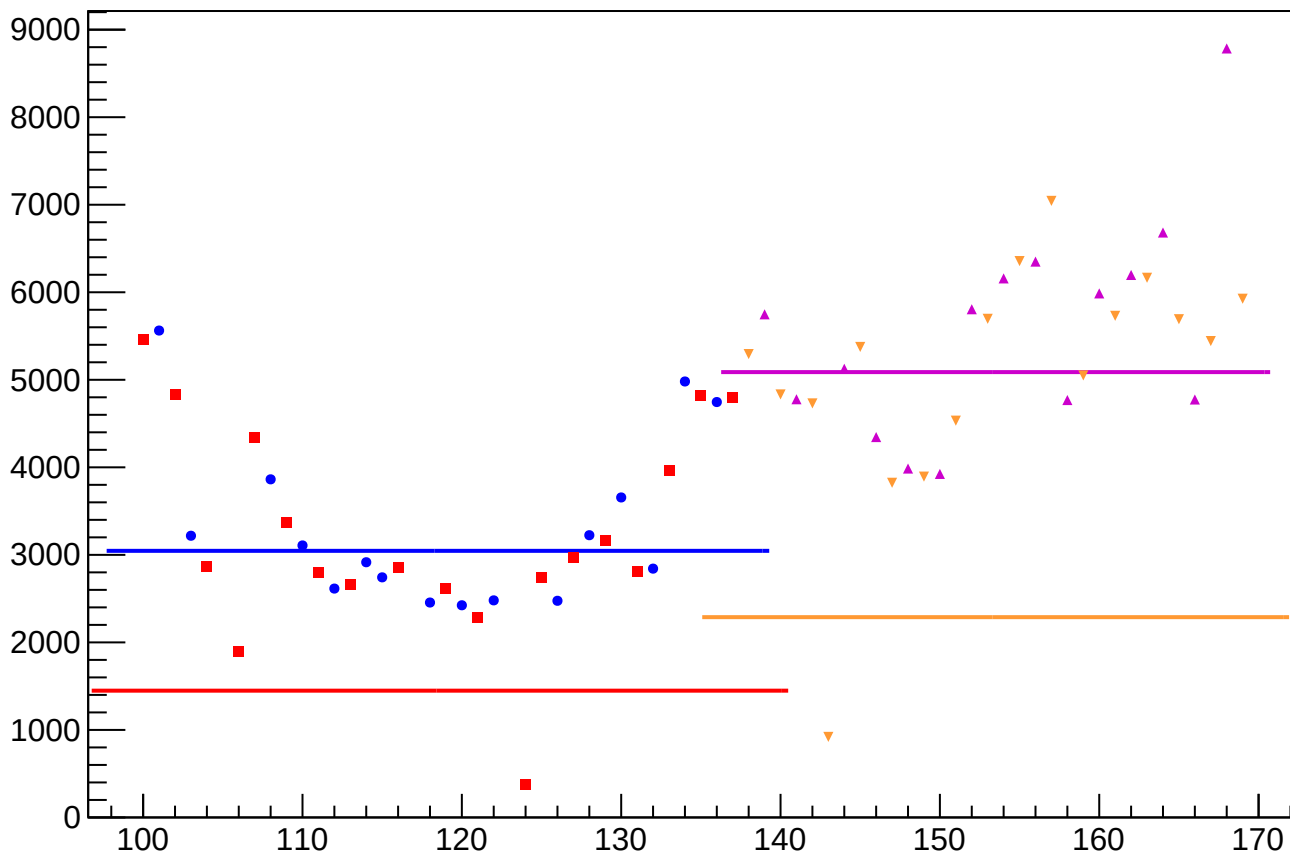
Right: 522.917+/-617.375 χ^2/NDF : 36.9/34

In: 317.091+/-919.699 χ^2/NDF : 24.7/30

Out: 91.061+/-548.268 χ^2/NDF : 47.3/35

All: 150.326+/-470.936 χ^2/NDF : 72.1/66

asym_atr1l2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 3045.917 $\pm$ 0.830

χ^2 /NDF: 907385.5/15

Left: 2967.223 $\pm$ 0.515

χ^2 /NDF: 17969513.1/31

Left Out: 2288.211 $\pm$ 0.592

χ^2 /NDF: 11554659.8/16

Right: 1889.931 $\pm$ 0.437

χ^2 /NDF: 10371803.4/34

Right Out: 1448.519 $\pm$ 0.513

χ^2 /NDF: 6786925.8/18

In: 3835.678 $\pm$ 0.650

χ^2 /NDF: 4231040.7/30

Out: 1808.977 $\pm$ 0.388

χ^2 /NDF: 19490918.2/35

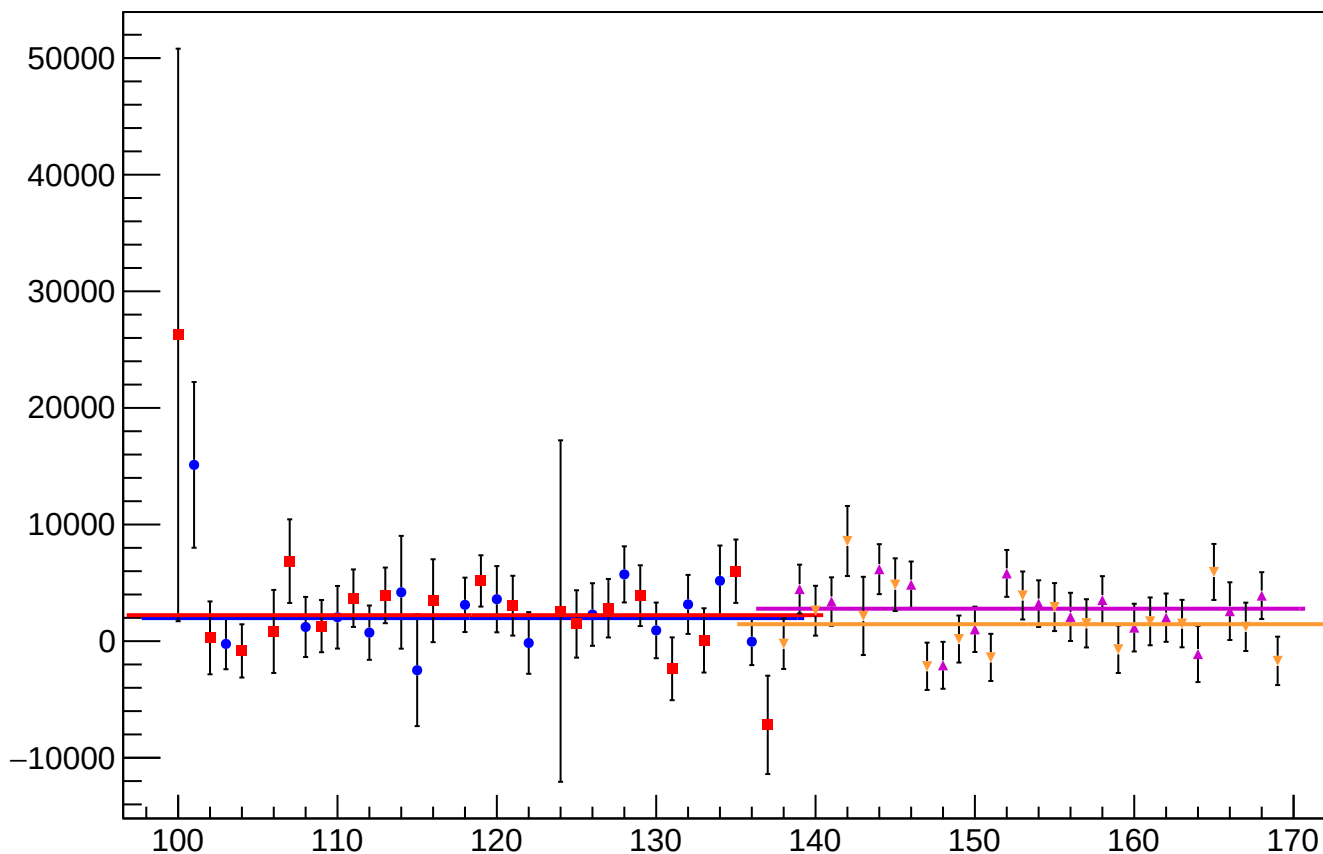
Left In: 5087.858 $\pm$ 1.046

χ^2 /NDF: 985353.3/14

All: 2340.378 $\pm$ 0.333

χ^2 /NDF: 30887619.9/6

cor_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.946 $\pm$ 667.710 χ^2 /NDF: 12.1/15

Left Out: 1455.860 $\pm$ 524.897 χ^2 /NDF: 23.2/16

Right Out: 2226.267 $\pm$ 656.286 χ^2 /NDF: 19.0/18

Left In: 2781.507 $\pm$ 536.823 χ^2 /NDF: 17.2/14

Left: 2103.795 $\pm$ 375.304 χ^2 /NDF: 43.6/31

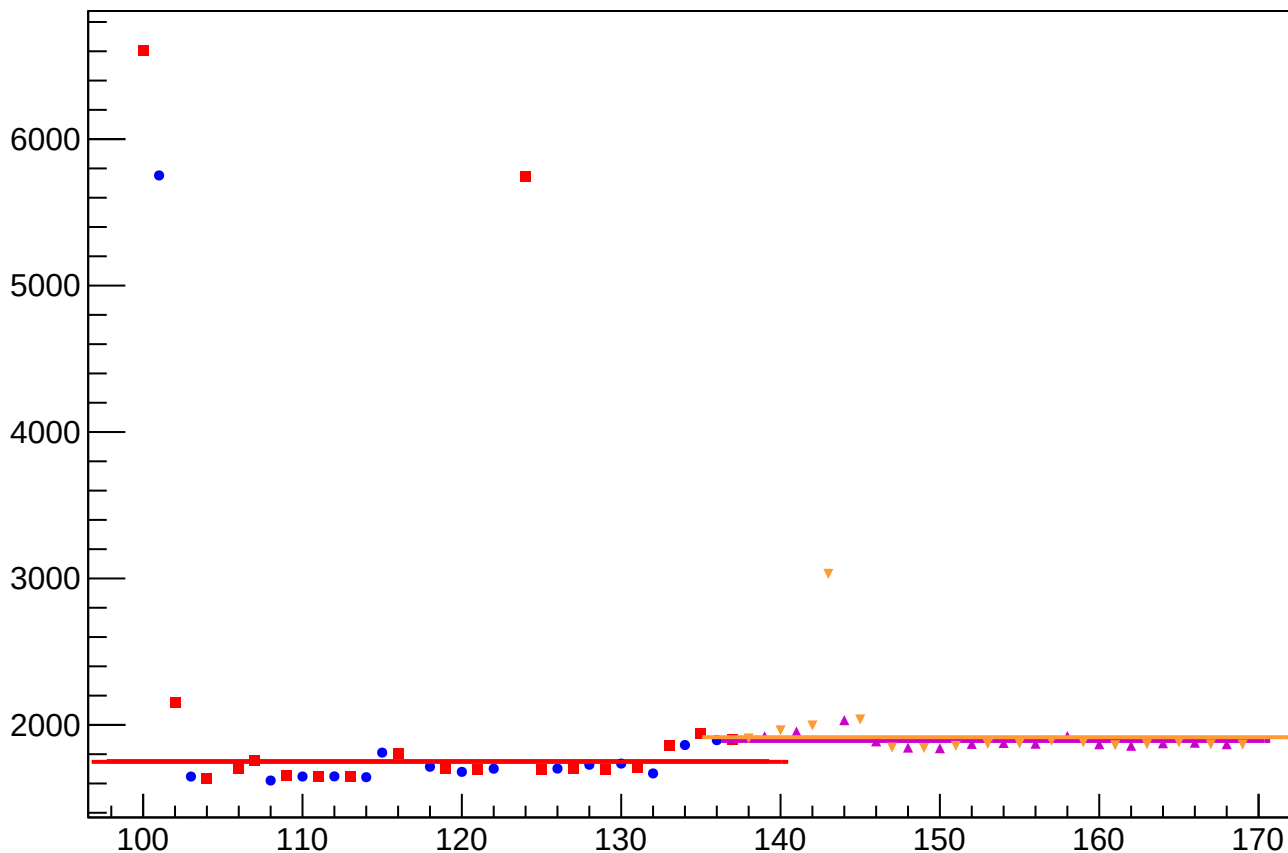
Right: 2103.266 $\pm$ 468.051 χ^2 /NDF: 31.1/34

In: 2465.239 $\pm$ 418.376 χ^2 /NDF: 30.2/30

Out: 1756.414 $\pm$ 409.916 χ^2 /NDF: 43.1/35

All: 2103.588 $\pm$ 292.799 χ^2 /NDF: 74.7/66

cor_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1751.606 $\pm$ 0.472 χ^2 /NDF: 670651.6/15

Left Out: 1916.025 $\pm$ 0.371 χ^2 /NDF:244114.9/16

Right Out: 1747.786 $\pm$ 0.462 χ^2 /NDF: 297917.6/18

Left In: 1890.636 $\pm$ 0.380 χ^2 /NDF:15600.9/14

Left: 1903.616 $\pm$ 0.265 χ^2 /NDF: 262002.7/31

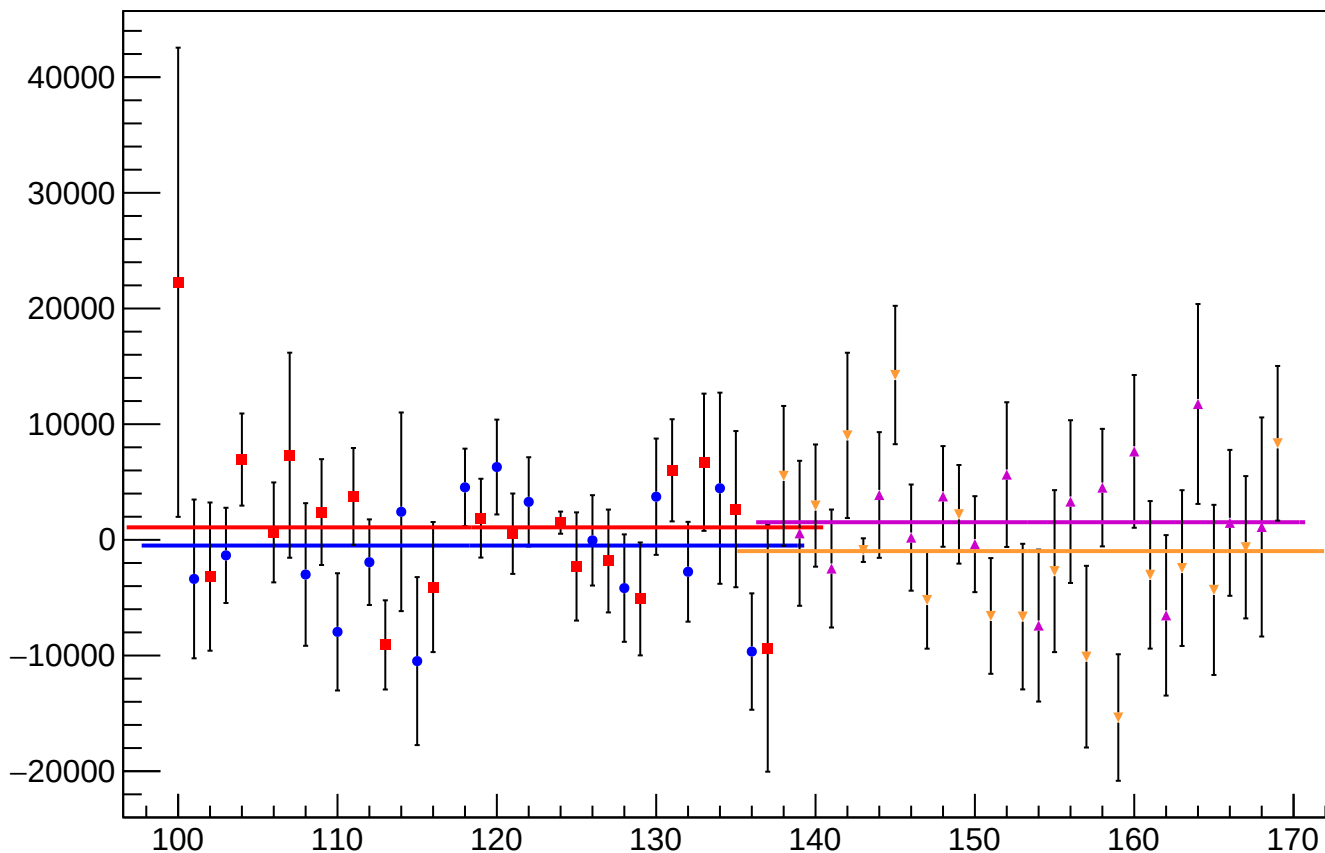
Right: 1749.656 $\pm$ 0.330 χ^2 /NDF: 968602.6/34

In: 1836.052 $\pm$ 0.296 χ^2 /NDF:738919.9/30

Out: 1850.090 $\pm$ 0.289 χ^2 /NDF:622555.6/35

All: 1843.225 $\pm$ 0.207 χ^2 /NDF: 1362626.0/66

asym_atr1l2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -492.916+/-1173.239 χ^2/NDF : 16.0/15

Left Out: -973.935+/-836.785 χ^2/NDF : 24.4/16

Right Out: 1080.924+/-731.458 χ^2/NDF : 18.5/18

Left In: 1524.316+/-1478.834 χ^2/NDF : 7.7/14

Left: -368.046+/-728.279 χ^2/NDF : 34.3/31

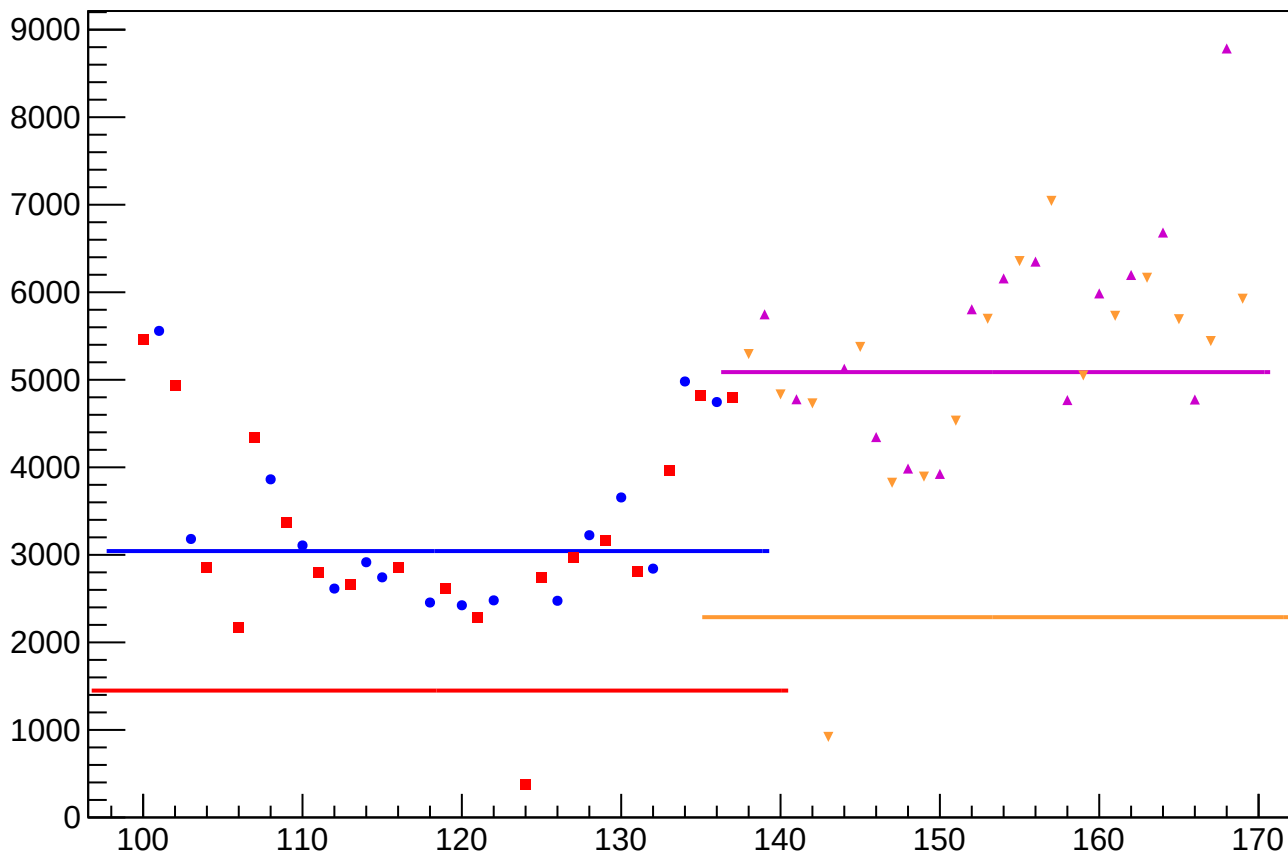
Right: 640.409+/-620.707 χ^2/NDF : 35.7/34

In: 286.303+/-919.118 χ^2/NDF : 24.8/30

Out: 190.884+/-550.716 χ^2/NDF : 46.3/35

All: 216.091+/-472.406 χ^2/NDF : 71.1/66

asym_atr1l2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 3043.270+/-0.830 χ^2/NDF : 905659.7/15

Left Out: 2288.110+/-0.592 χ^2/NDF : 11555145.6/16

Right Out: 1449.516+/-0.517 χ^2/NDF : 6825716.5/18

Left In: 5087.855+/-1.046 χ^2/NDF : 985353.7/14

Left: 2967.119+/-0.515 χ^2/NDF : 17970456.5/31

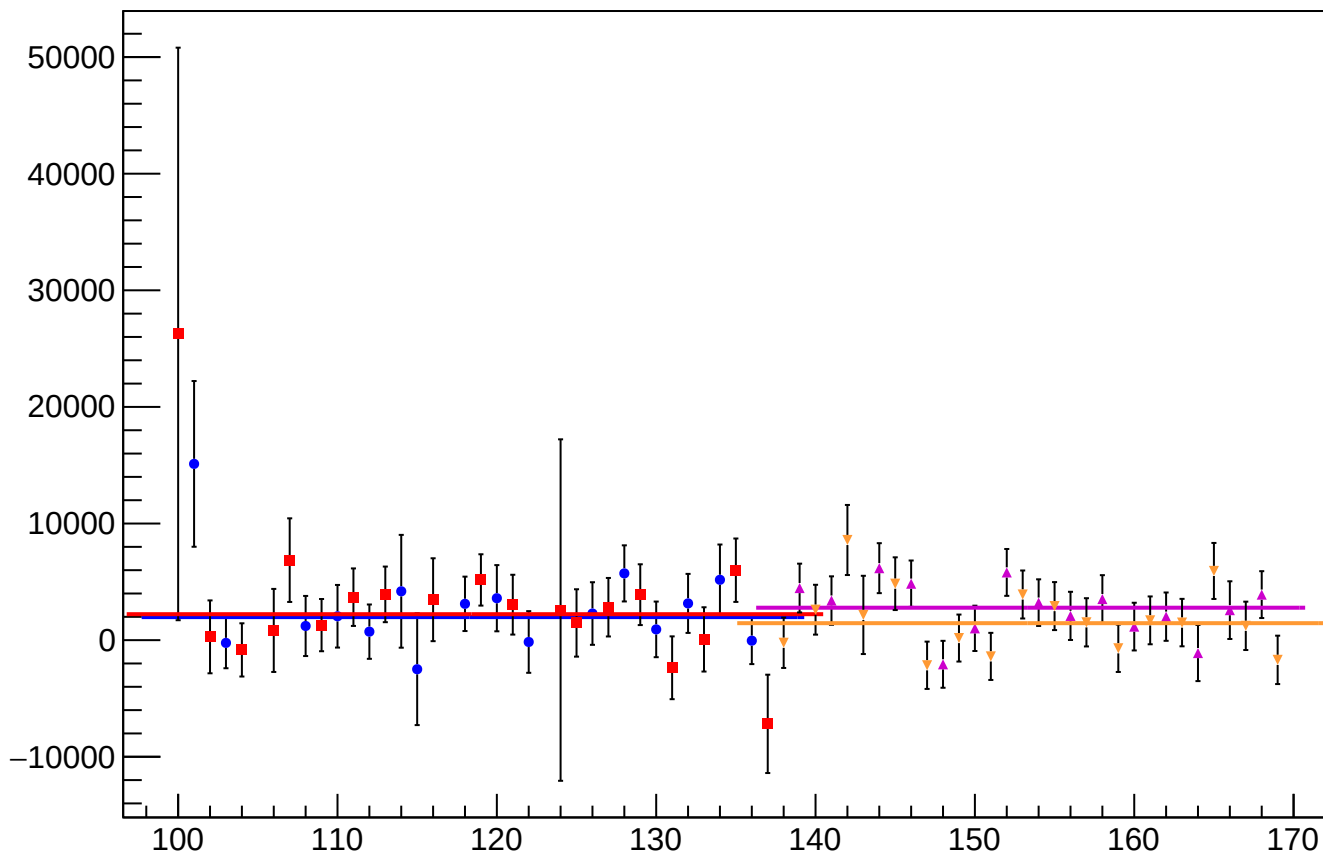
Right: 1895.604+/-0.439 χ^2/NDF : 10389001.0/34

In: 3833.055+/-0.650 χ^2/NDF : 4237246.0/30

Out: 1812.744+/-0.389 χ^2/NDF : 19519492.6/35

All: 2346.456+/-0.334 χ^2/NDF : 30867231.8/66

eigen_cor_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.946+/-667.710 χ^2/NDF : 12.1/15

Left Out: 1455.860+/-524.897 χ^2/NDF : 23.2/16

Right Out: 2226.267+/-656.286 χ^2/NDF : 19.0/18

Left In: 2781.507+/-536.823 χ^2/NDF : 17.2/14

Left: 2103.795+/-375.304 χ^2/NDF : 43.6/31

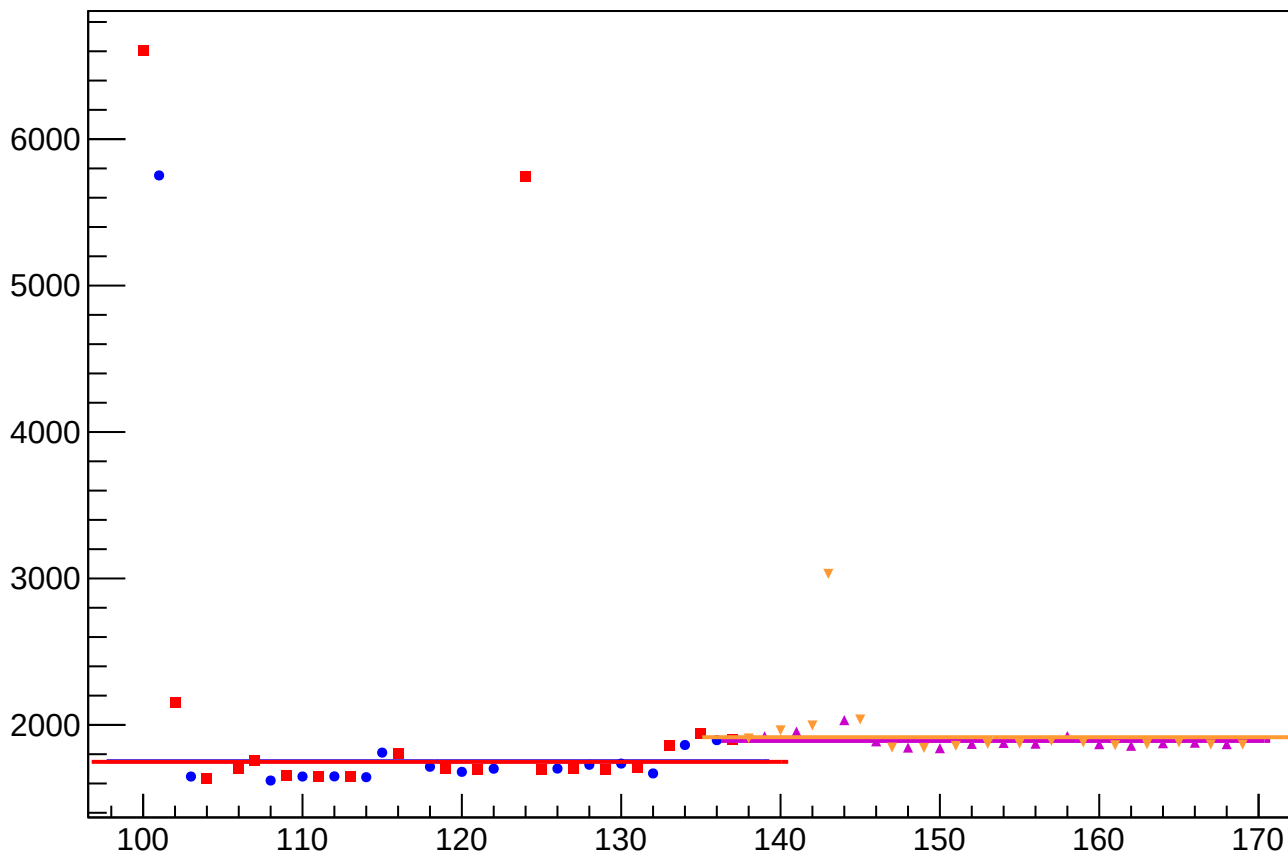
Right: 2103.266+/-468.051 χ^2/NDF : 31.1/34

In: 2465.239+/-418.376 χ^2/NDF : 30.2/30

Out: 1756.414+/-409.916 χ^2/NDF : 43.1/35

All: 2103.588+/-292.799 χ^2/NDF : 74.7/66

eigen_cor_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1751.606+/-0.472 χ^2/NDF : 670651.6/15

Left Out: 1916.025+/-0.371 χ^2/NDF : 244114.9/16

Right Out: 1747.786+/-0.462 χ^2/NDF : 297917.6/18

Left In: 1890.636+/-0.380 χ^2/NDF : 15600.9/14

Left: 1903.616+/-0.265 χ^2/NDF : 262002.7/31

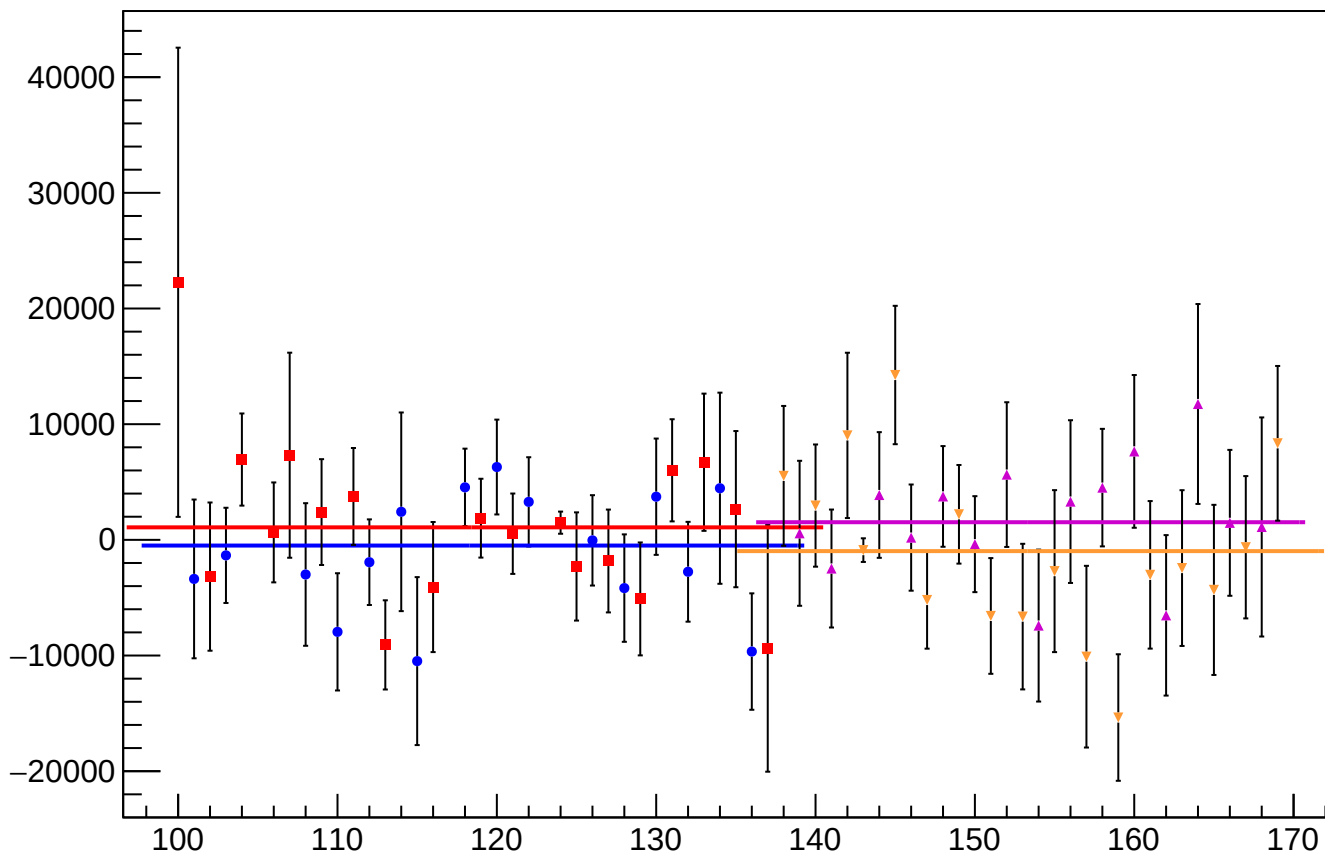
Right: 1749.656+/-0.330 χ^2/NDF : 968602.6/34

In: 1836.052+/-0.296 χ^2/NDF : 738919.9/30

Out: 1850.090+/-0.289 χ^2/NDF : 622555.6/35

All: 1843.225+/-0.207 χ^2/NDF : 1362626.0/66

asym_atr1l2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -492.916 ± 1173.239 χ^2/NDF : 16.0/15

Left Out: -973.935 ± 836.785 χ^2/NDF : 24.4/16

Right Out: 1080.924 ± 731.458 χ^2/NDF : 18.5/18

Left In: 1524.316 ± 1478.834 χ^2/NDF : 7.7/14

Left: -368.046 ± 728.279 χ^2/NDF : 34.3/31

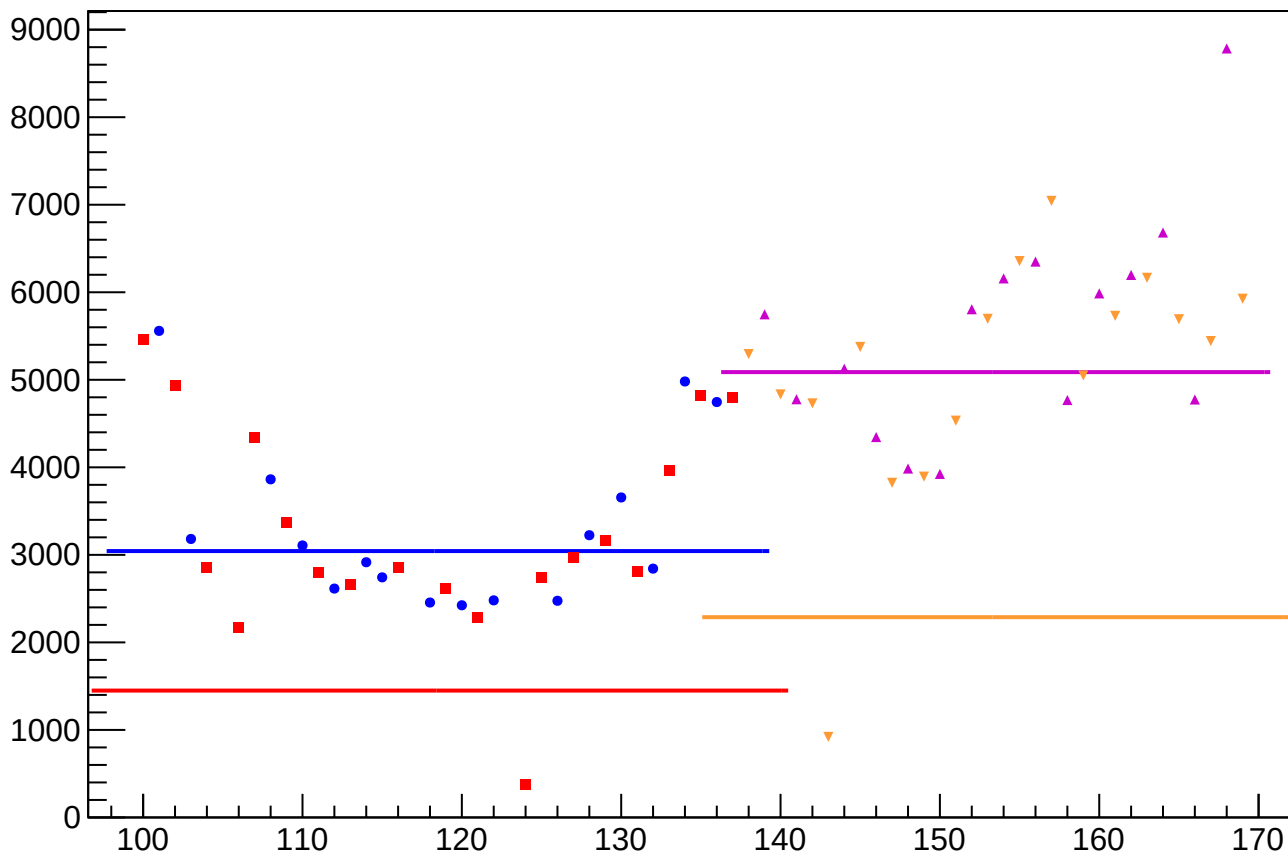
Right: 640.409 ± 620.707 χ^2/NDF : 35.7/34

In: 286.303 ± 919.118 χ^2/NDF : 24.8/30

Out: 190.884 ± 550.716 χ^2/NDF : 46.3/35

All: 216.091 ± 472.406 χ^2/NDF : 71.1/66

asym_atr1l2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3043.270+/-0.830 χ^2/NDF : 905659.7/15

Left Out: 2288.110+/-0.592 χ^2/NDF : 11555145.6/16

Right Out: 1449.516+/-0.517 χ^2/NDF : 6825716.5/18

Left In: 5087.855+/-1.046 χ^2/NDF : 985353.7/14

Left: 2967.119+/-0.515 χ^2/NDF : 17970456.5/31

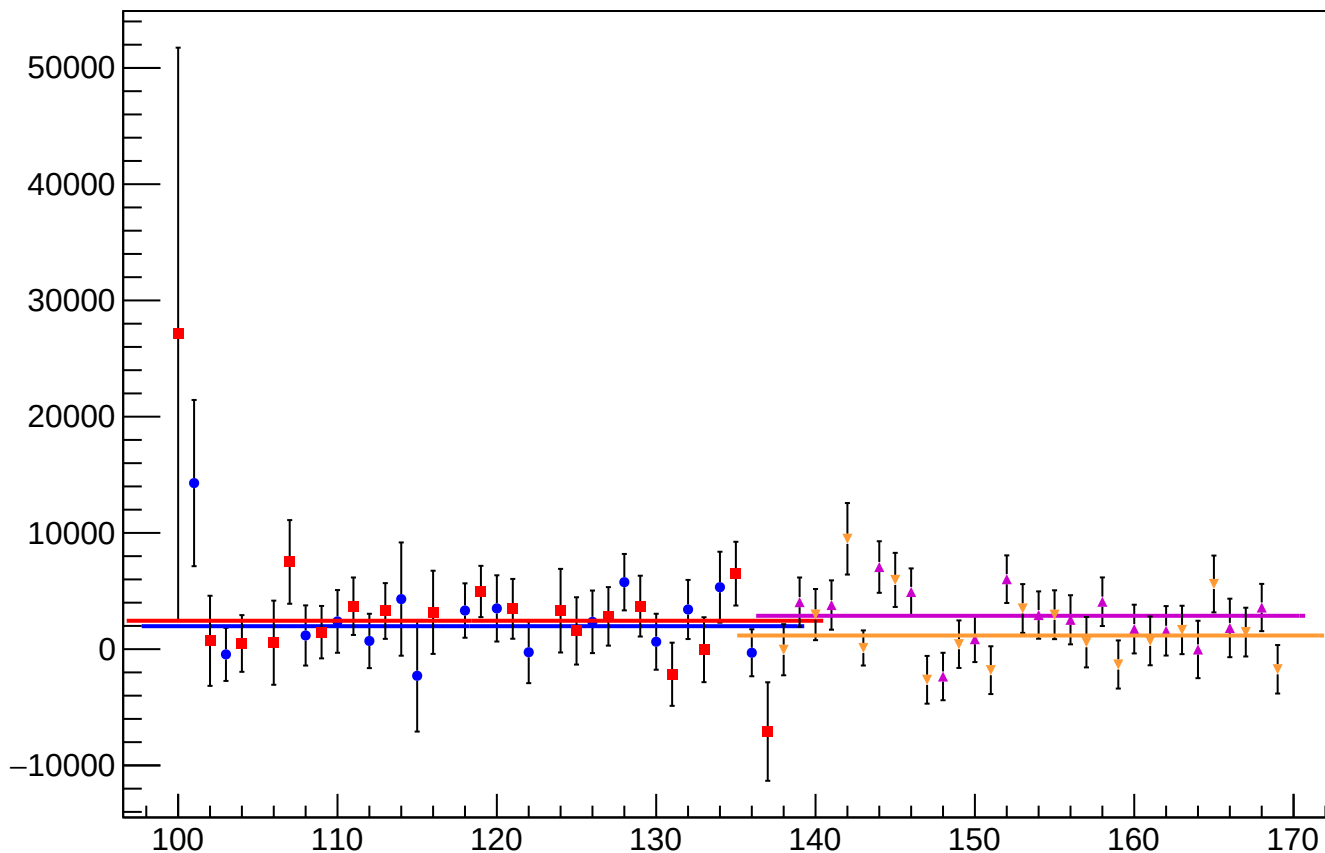
Right: 1895.604+/-0.439 χ^2/NDF : 10389001.0/34

In: 3833.055+/-0.650 χ^2/NDF : 4237246.0/30

Out: 1812.744+/-0.389 χ^2/NDF : 19519492.6/35

All: 2346.456+/-0.334 χ^2/NDF : 30867231.8/66

dit_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.804+/-674.086 χ^2/NDF : 12.4/15

Left Out: 1174.660+/-510.447 χ^2/NDF : 27.5/16

Right Out: 2444.199+/-657.682 χ^2/NDF : 17.5/18

Left In: 2870.774+/-547.604 χ^2/NDF : 17.8/14

Left: 1963.226+/-373.386 χ^2/NDF : 50.4/31

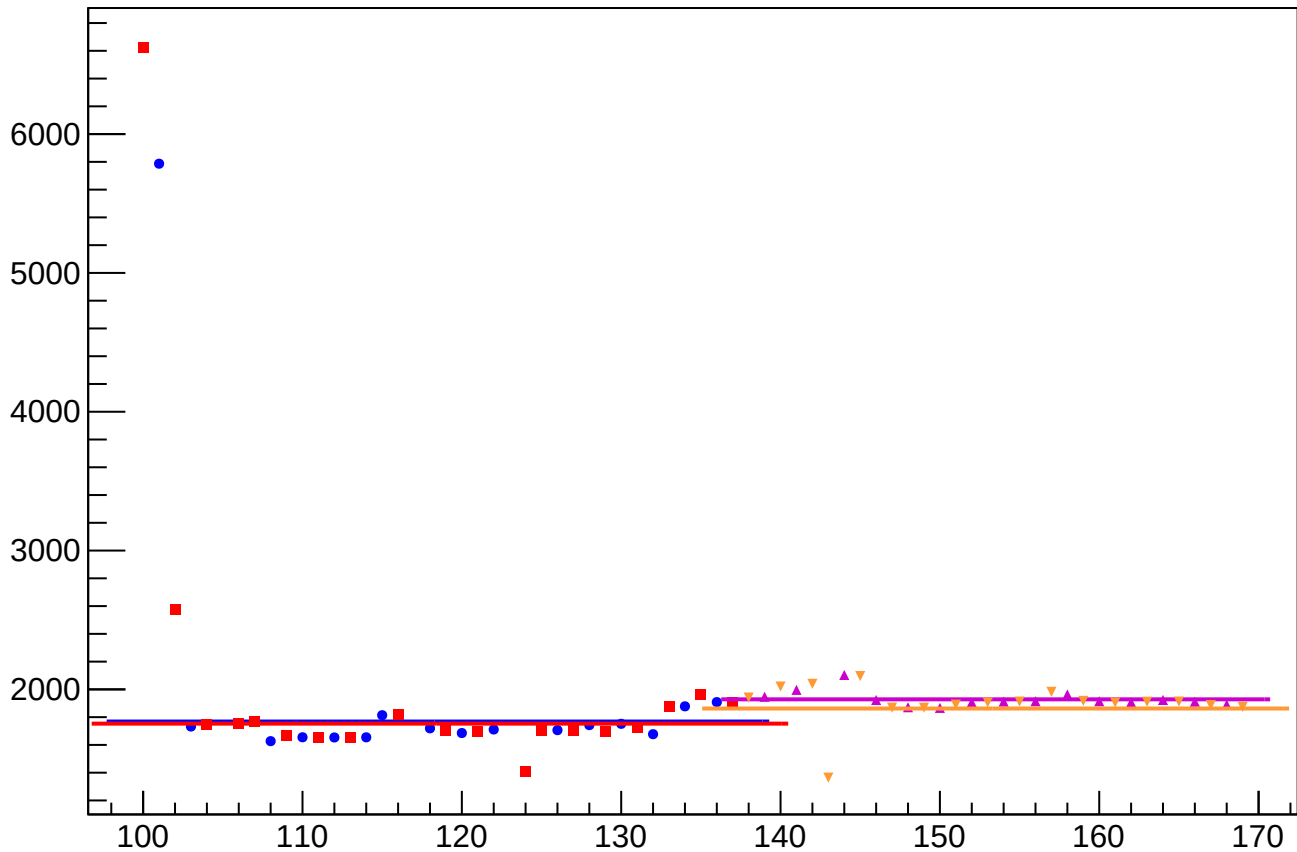
Right: 2215.770+/-470.744 χ^2/NDF : 30.1/34

In: 2514.964+/-425.031 χ^2/NDF : 31.3/30

Out: 1651.914+/-403.244 χ^2/NDF : 47.3/35

All: 2060.753+/-292.536 χ^2/NDF : 80.8/66

dit_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1768.480+/-0.477 χ^2/NDF : 667367.4/15

Left Out: 1862.147+/-0.361 χ^2/NDF : 270457.5/16

Right Out: 1753.383+/-0.464 χ^2/NDF : 218864.4/18

Left In: 1928.343+/-0.387 χ^2/NDF : 20365.1/14

Left: 1892.923+/-0.264 χ^2/NDF : 306460.3/31

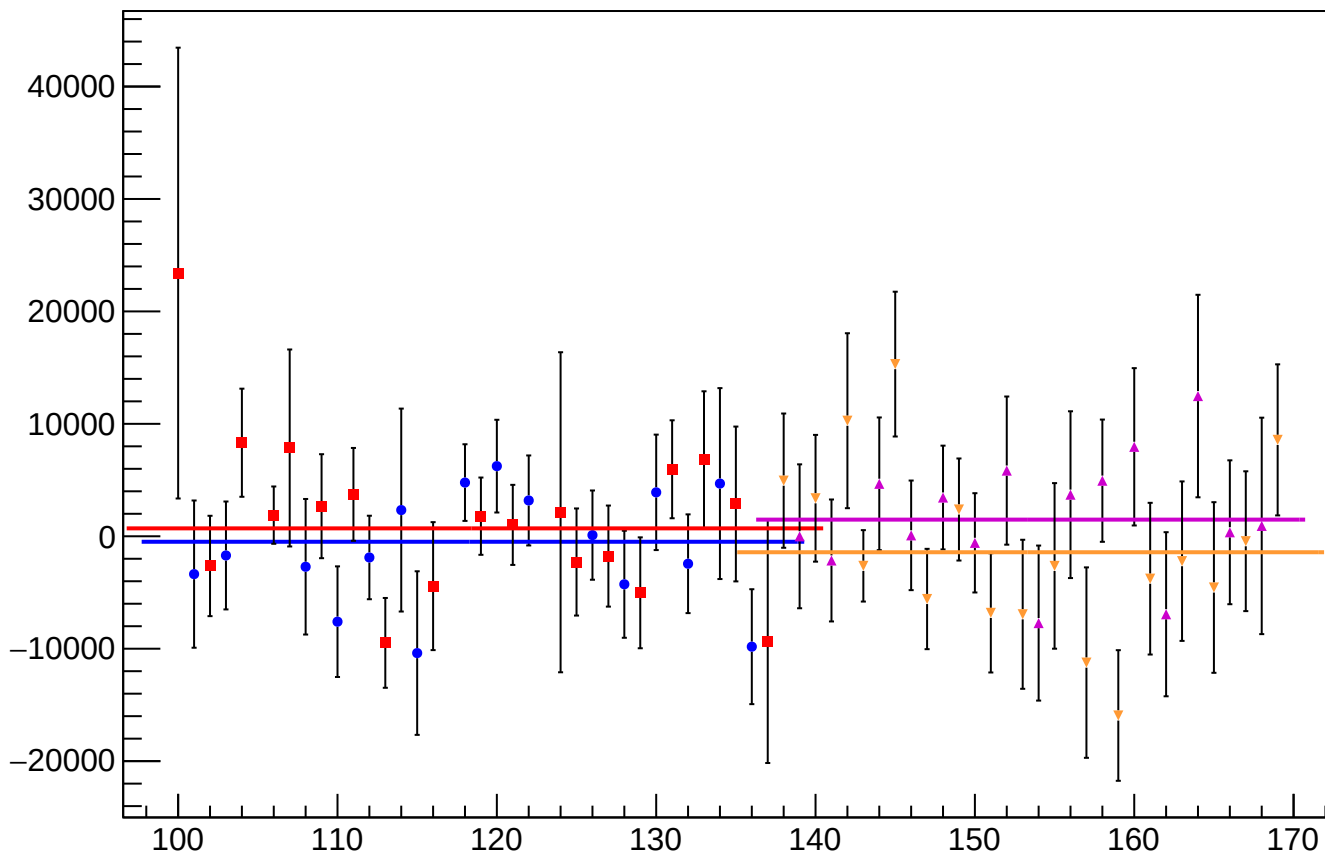
Right: 1760.725+/-0.332 χ^2/NDF : 886747.1/34

In: 1864.786+/-0.301 χ^2/NDF : 755496.8/30

Out: 1821.124+/-0.285 χ^2/NDF : 523570.5/35

All: 1841.785+/-0.207 χ^2/NDF : 1290185.8/66

asym_atr1l2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -488.104+/-1198.506 χ^2/NDF : 15.8/15

Left Out: -1420.038+/-1379.288 χ^2/NDF : 24.5/16

Right Out: 703.324+/-1069.467 χ^2/NDF : 18.8/18

Left In: 1480.822+/-1561.124 χ^2/NDF : 7.7/14

Left: -148.315+/-1033.642 χ^2/NDF : 34.1/31

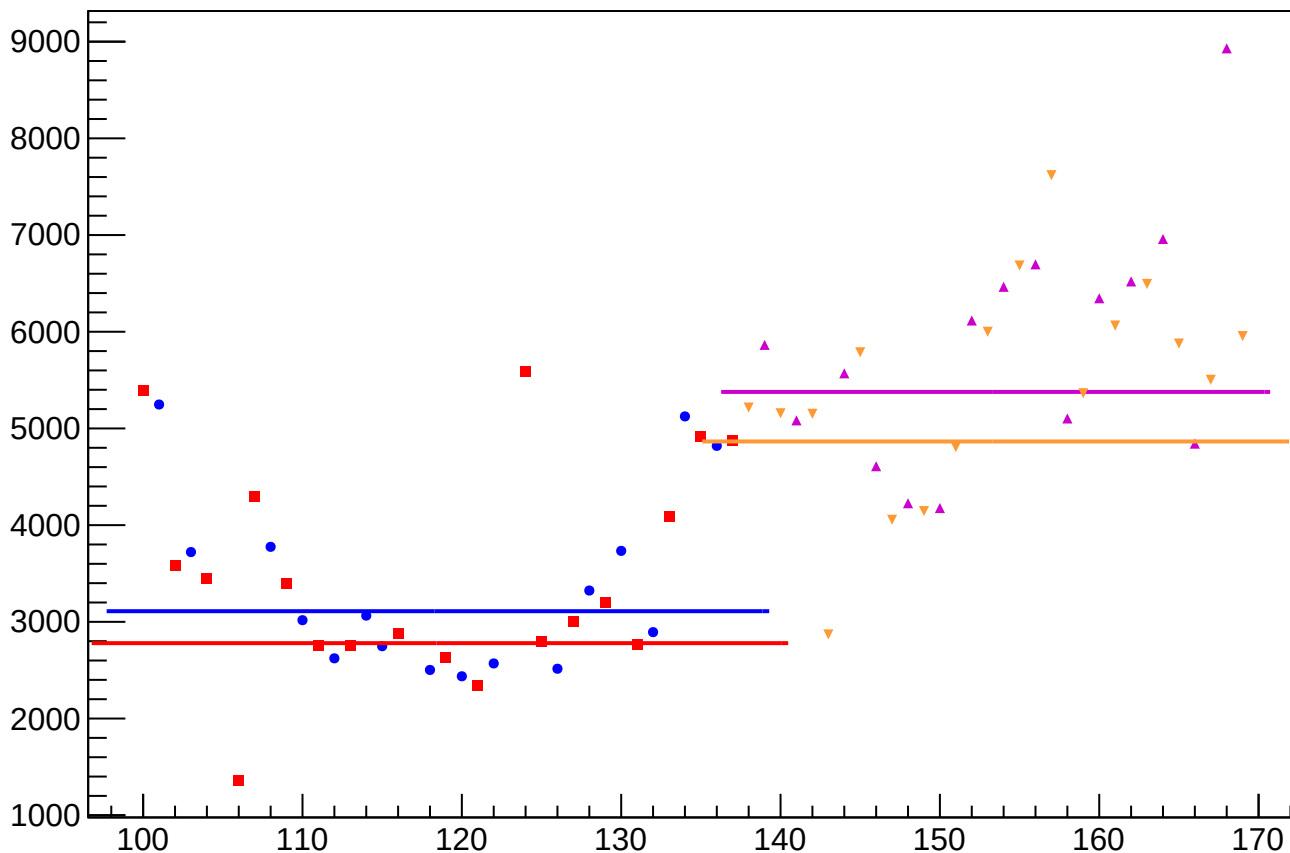
Right: 175.178+/-797.963 χ^2/NDF : 35.1/34

In: 242.031+/-950.658 χ^2/NDF : 24.5/30

Out: -93.938+/-845.169 χ^2/NDF : 44.8/35

All: 54.379+/-631.641 χ^2/NDF : 69.3/66

asym_atr1l2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 3110.133+/-0.847 χ^2/NDF : 883262.4/15

Left Out: 4865.340+/-0.975 χ^2/NDF : 1646820.7/16

Right Out: 2779.630+/-0.756 χ^2/NDF : 1348141.7/18

Left In: 5377.784+/-1.104 χ^2/NDF : 920500.2/14

Left: 5089.993+/-0.731 χ^2/NDF : 2688346.7/31

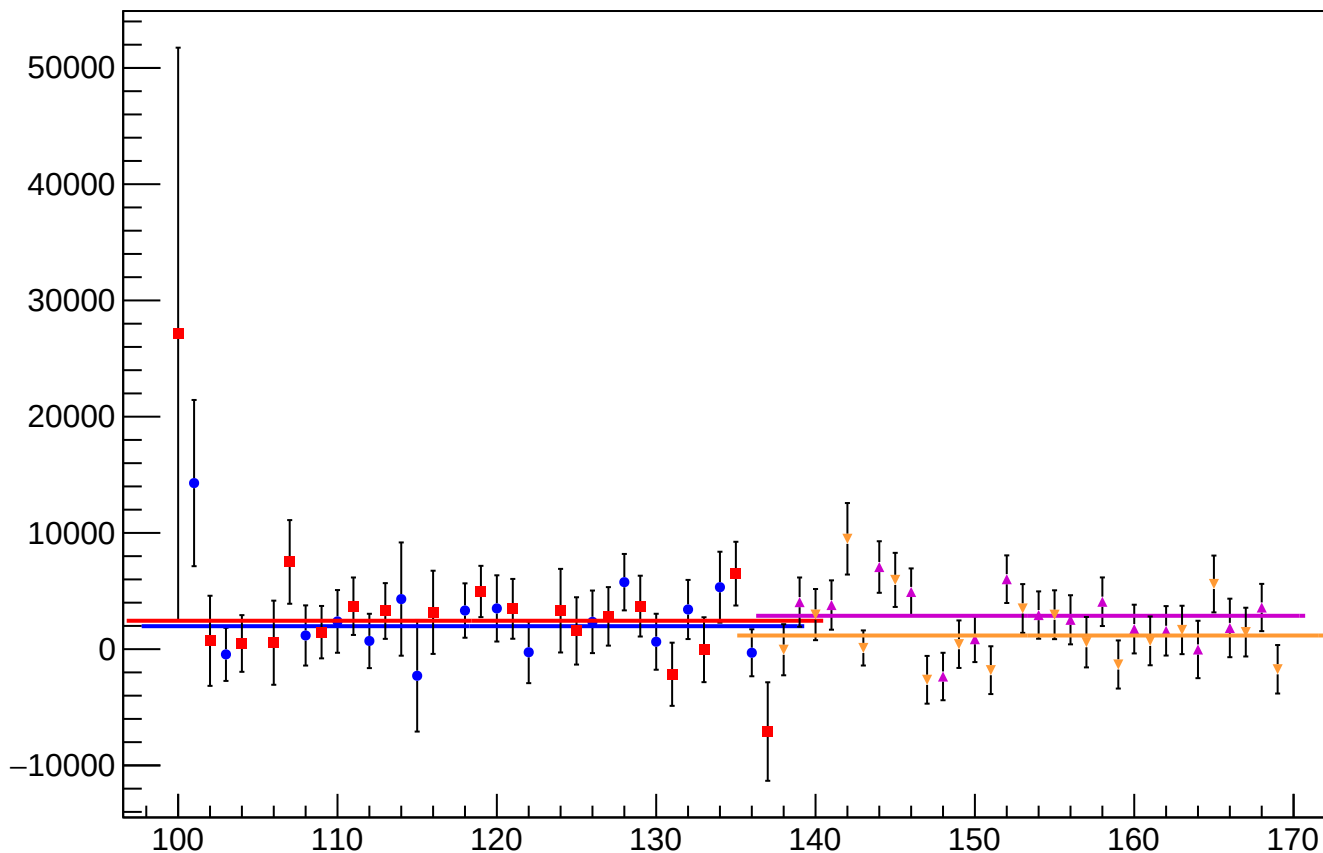
Right: 2926.138+/-0.564 χ^2/NDF : 2316074.2/34

In: 3951.044+/-0.672 χ^2/NDF : 4458834.5/30

Out: 3562.755+/-0.598 χ^2/NDF : 5851107.0/35

All: 3734.169+/-0.447 χ^2/NDF : 10496298.0/66

eigen_dit_asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 1975.805+/-674.086 χ^2/NDF : 12.4/15

Left Out: 1174.656+/-510.447 χ^2/NDF : 27.5/16

Right Out: 2444.199+/-657.682 χ^2/NDF : 17.5/18

Left In: 2870.774+/-547.604 χ^2/NDF : 17.8/14

Left: 1963.223+/-373.386 χ^2/NDF : 50.4/31

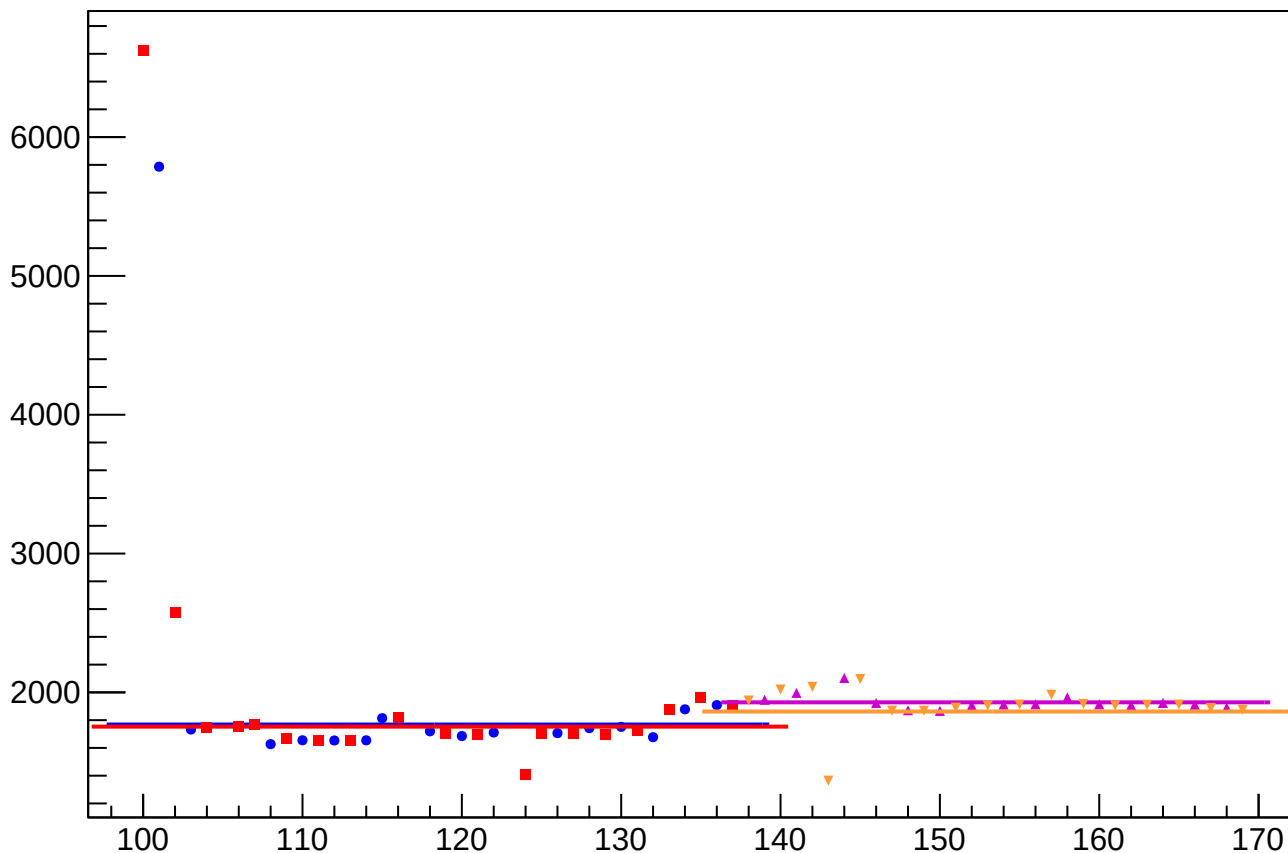
Right: 2215.771+/-470.744 χ^2/NDF : 30.1/34

In: 2514.964+/-425.031 χ^2/NDF : 31.3/30

Out: 1651.912+/-403.244 χ^2/NDF : 47.3/35

All: 2060.752+/-292.536 χ^2/NDF : 80.8/66

eigen_dit_asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 1768.480+/-0.477 χ^2/NDF : 667367.4/15

Left Out: 1862.147+/-0.361 χ^2/NDF : 270458.8/16

Right Out: 1753.382+/-0.464 χ^2/NDF : 218864.3/18

Left In: 1928.344+/-0.387 χ^2/NDF : 20365.4/14

Left: 1892.924+/-0.264 χ^2/NDF : 306462.0/31

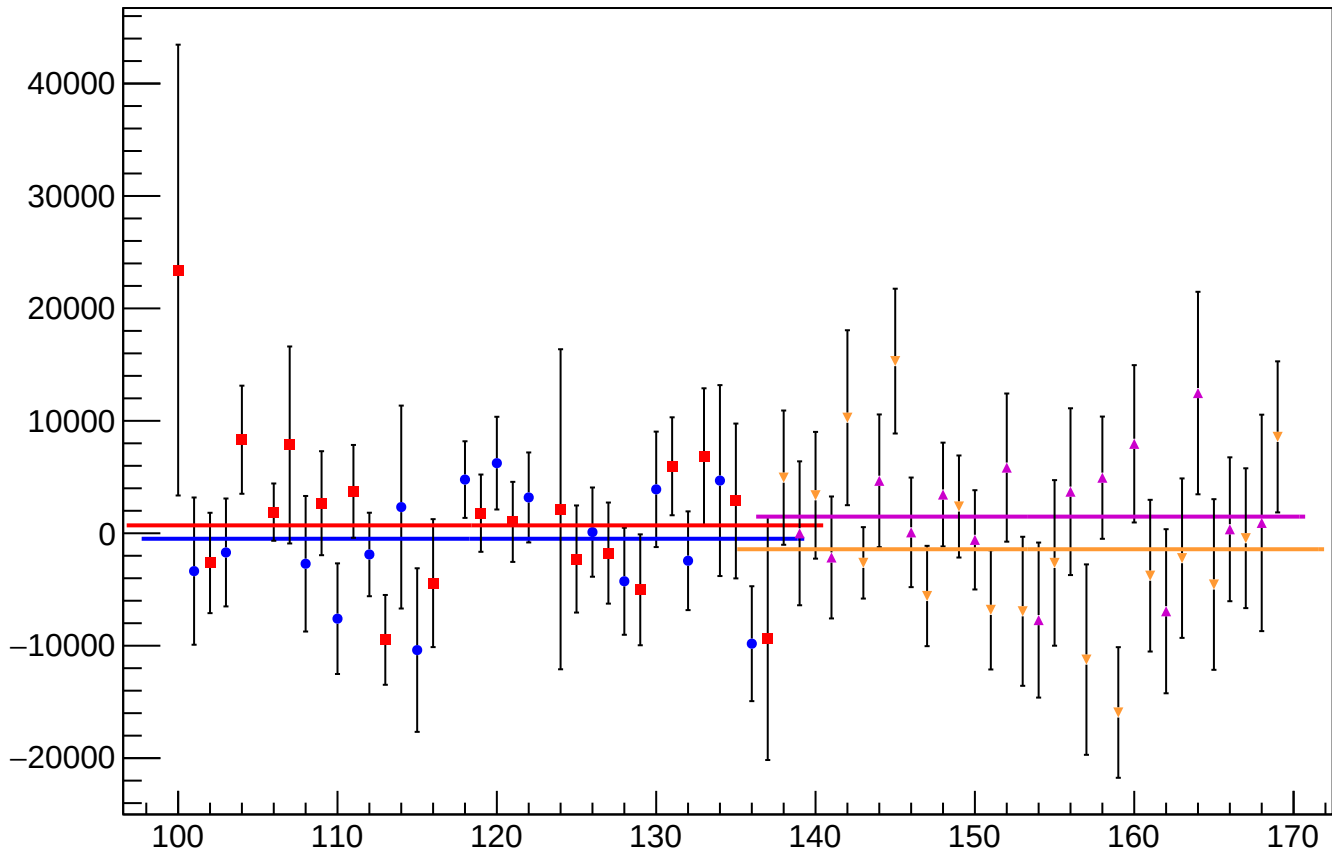
Right: 1760.725+/-0.332 χ^2/NDF : 886747.0/34

In: 1864.787+/-0.301 χ^2/NDF : 755498.0/30

Out: 1821.124+/-0.285 χ^2/NDF : 523572.4/35

All: 1841.786+/-0.207 χ^2/NDF : 1290189.0/66

asym_atr1l2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -488.098 $\pm$ 1198.502 χ^2 /NDF: 15.8/15

Left Out: -1420.044 $\pm$ 1379.290 χ^2 /NDF:24.5/16

Right Out: 703.325 $\pm$ 1069.463 χ^2 /NDF: 18.8/18

Left In: 1480.822 $\pm$ 1561.126 χ^2 /NDF:7.7/14

Left: -148.318 $\pm$ 1033.644 χ^2 /NDF: 34.1/31

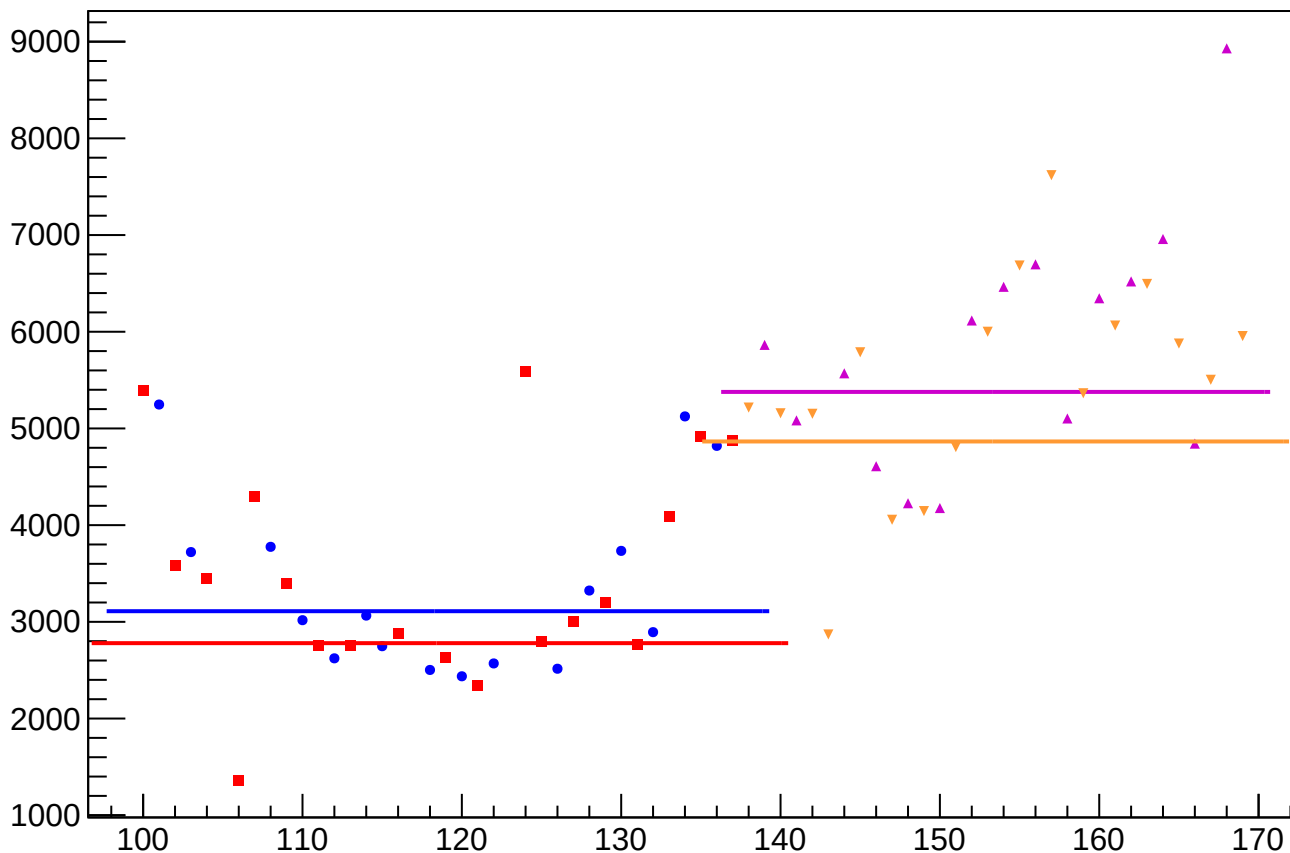
Right: 175.182 $\pm$ 797.960 χ^2 /NDF: 35.1/34

In: 242.031 $\pm$ 950.657 χ^2 /NDF:24.5/30

Out: -93.935 $\pm$ 845.167 χ^2 /NDF:44.8/35

All: 54.381 $\pm$ 631.640 χ^2 /NDF: 69.3/66

asym_atr1l2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3110.121+/-0.847 χ^2/NDF : 883272.2/15

Left Out: 4865.345+/-0.975 χ^2/NDF : 1646828.4/16

Right Out: 2779.617+/-0.756 χ^2/NDF : 1348160.7/18

Left In: 5377.790+/-1.104 χ^2/NDF : 920503.8/14

Left: 5089.998+/-0.731 χ^2/NDF : 2688358.6/31

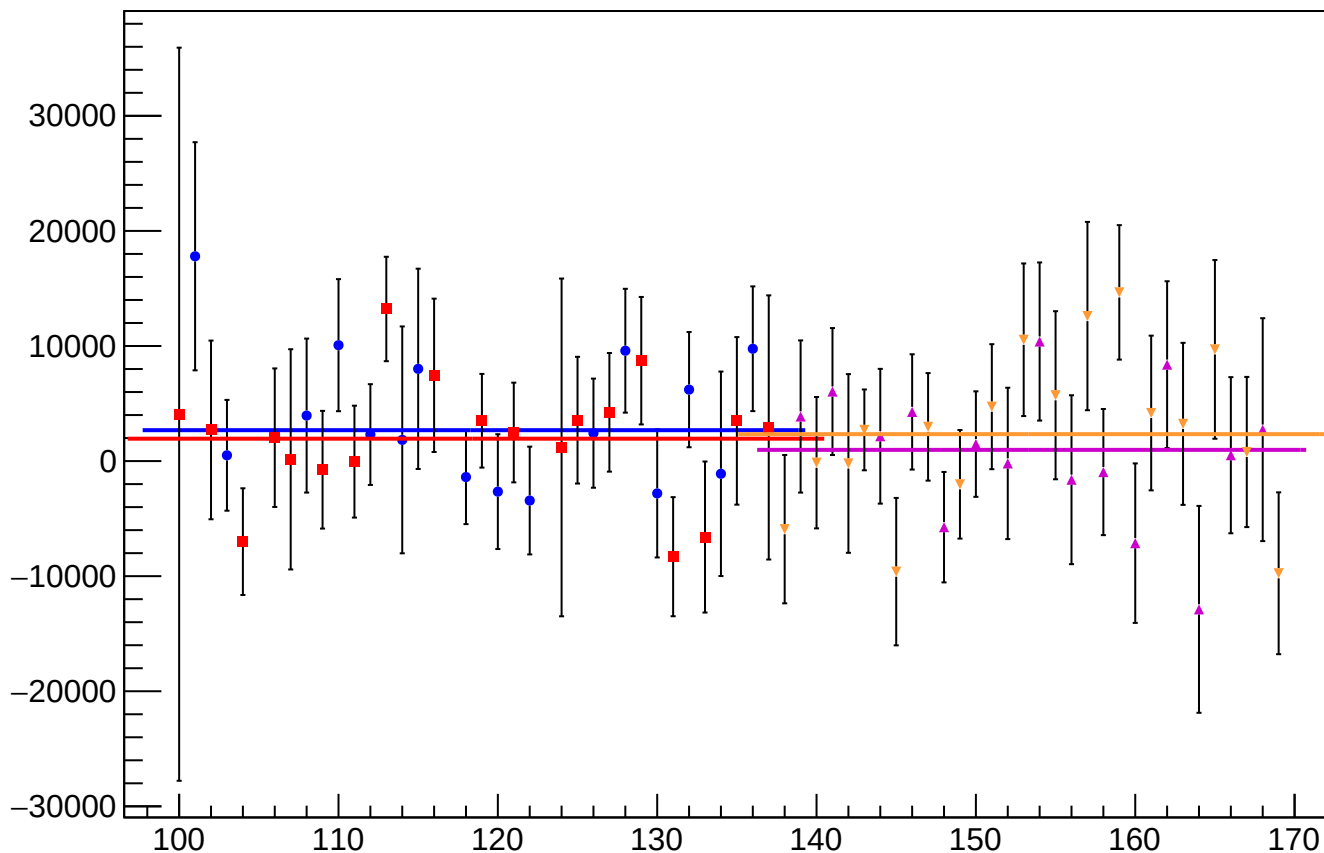
Right: 2926.126+/-0.564 χ^2/NDF : 2316104.6/34

In: 3951.034+/-0.672 χ^2/NDF : 4458891.0/30

Out: 3562.744+/-0.598 χ^2/NDF : 5851185.6/35

All: 3734.159+/-0.447 χ^2/NDF : 10496435.4/6

asym_atr1l2_avg_mean vs Slug, Sign Corrected



Right In: 2685.414 $\pm$ 1379.907 χ^2 /NDF: 13.5/15

Left Out: 2340.396 $\pm$ 1428.912 χ^2 /NDF:18.3/16

Right Out: 1945.685 $\pm$ 1332.986 χ^2 /NDF: 18.7/18

Left In: 975.045 $\pm$ 1587.971 χ^2 /NDF:10.5/14

Left: 1729.507 $\pm$ 1062.189 χ^2 /NDF: 29.1/31

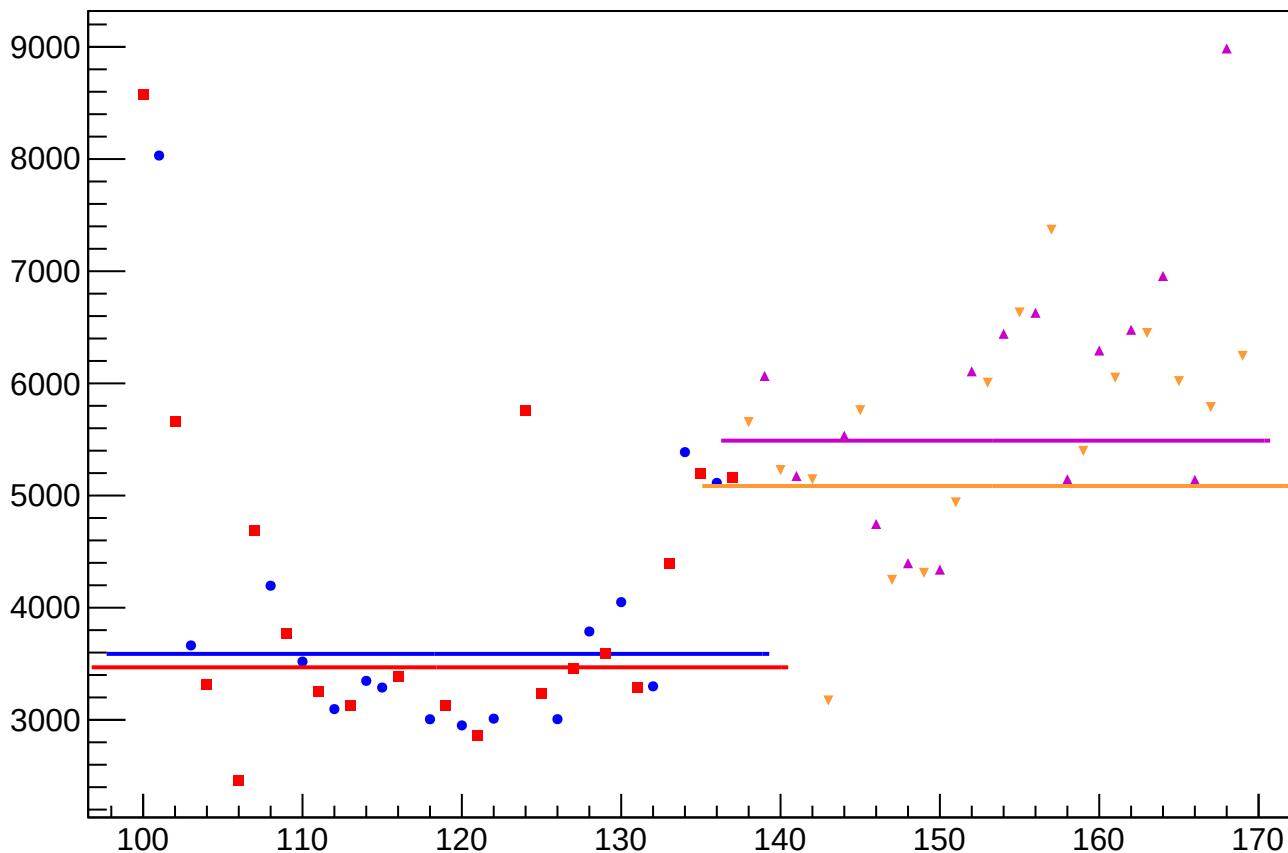
Right: 2302.760 $\pm$ 958.722 χ^2 /NDF: 32.3/34

In: 1949.549 $\pm$ 1041.590 χ^2 /NDF:24.6/30

Out: 2129.348 $\pm$ 974.713 χ^2 /NDF:37.0/35

All: 2045.406 $\pm$ 711.695 χ^2 /NDF: 61.6/66

asym_atr1l2_avg_rms vs Slug, Sign Corrected



Right In: 3588.430+/-0.976 χ^2/NDF : 845218.6/15

Left Out: 5085.104+/-1.010 χ^2/NDF : 1264803.9/16

Right Out: 3468.624+/-0.928 χ^2/NDF : 666541.5/18

Left In: 5489.482+/-1.123 χ^2/NDF : 791205.5/14

Left: 5266.032+/-0.751 χ^2/NDF : 2127675.3/31

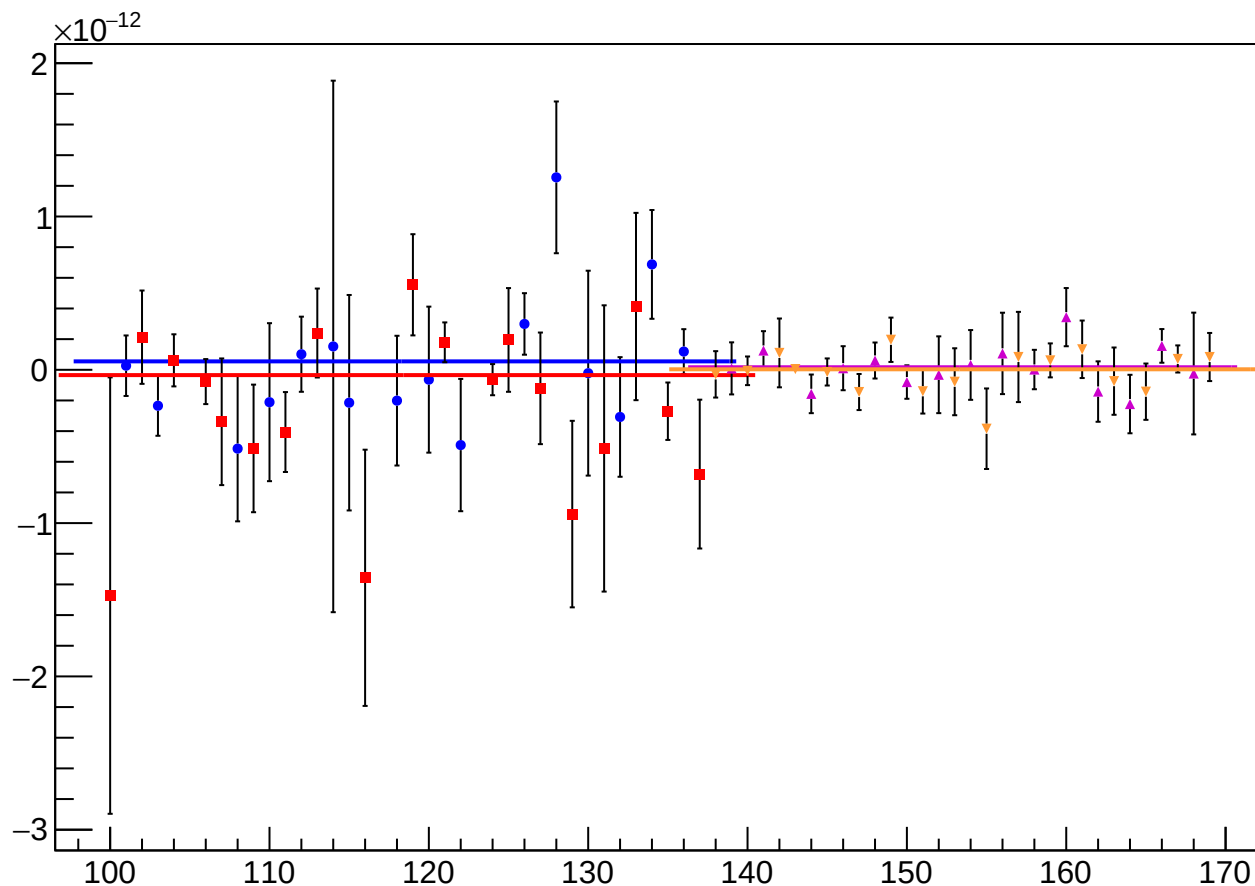
Right: 3525.541+/-0.673 χ^2/NDF : 1519674.0/34

In: 4406.333+/-0.737 χ^2/NDF : 3269579.5/30

Out: 4208.494+/-0.684 χ^2/NDF : 3319367.5/35

All: 4300.048+/-0.501 χ^2/NDF : 6627710.4/66

asym_atr1l2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 9.4/16

Right Out: -0.000+/-0.000 χ^2/NDF : 22.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 10.6/14

Left: 0.000+/-0.000 χ^2/NDF : 20.1/31

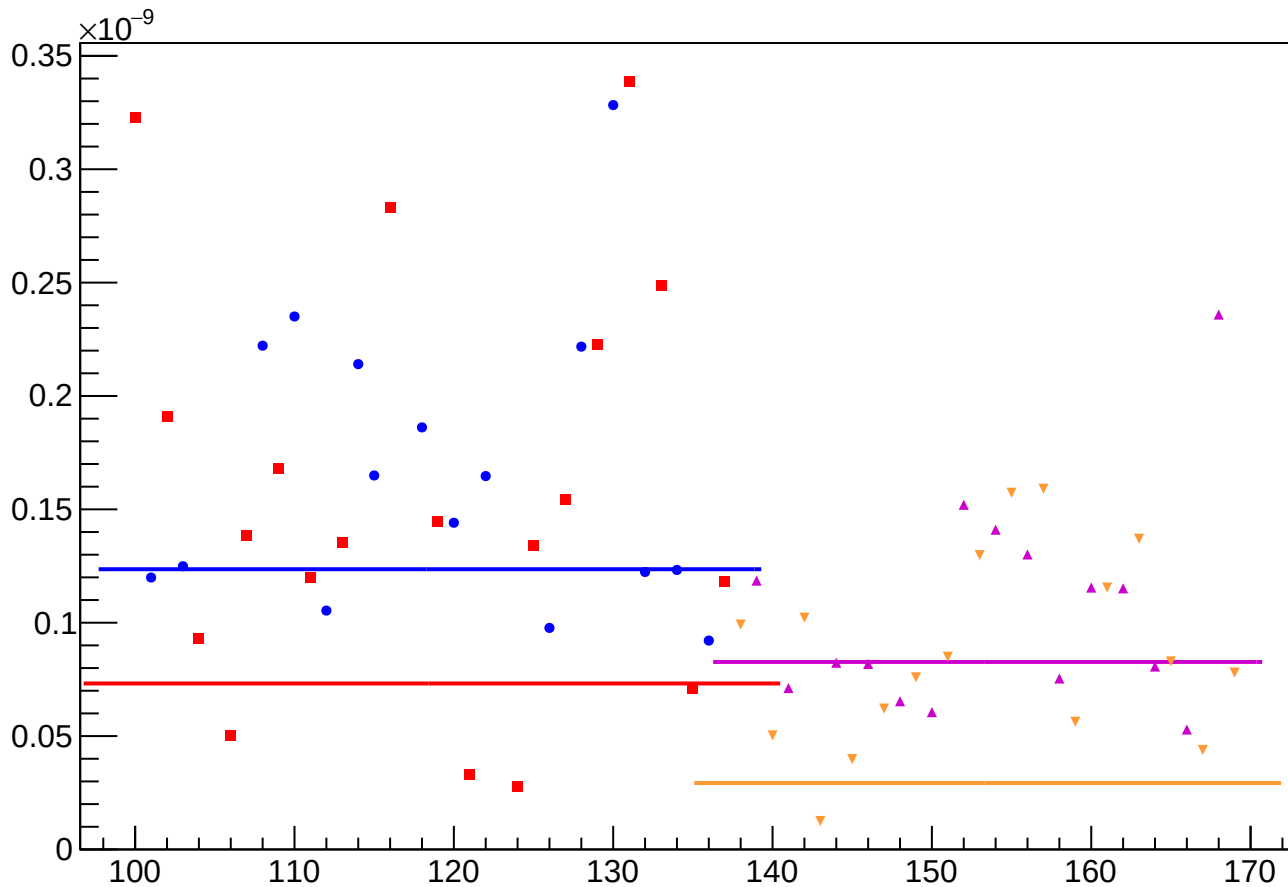
Right: -0.000+/-0.000 χ^2/NDF : 41.0/34

In: 0.000+/-0.000 χ^2/NDF : 28.5/30

Out: -0.000+/-0.000 χ^2/NDF : 32.1/35

All: 0.000+/-0.000 χ^2/NDF : 61.1/66

asym_atr1l2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 662149.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 5270435.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2188857.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 1145476.7/14

Left: 0.000+/-0.000 χ^2/NDF : 9414498.7/31

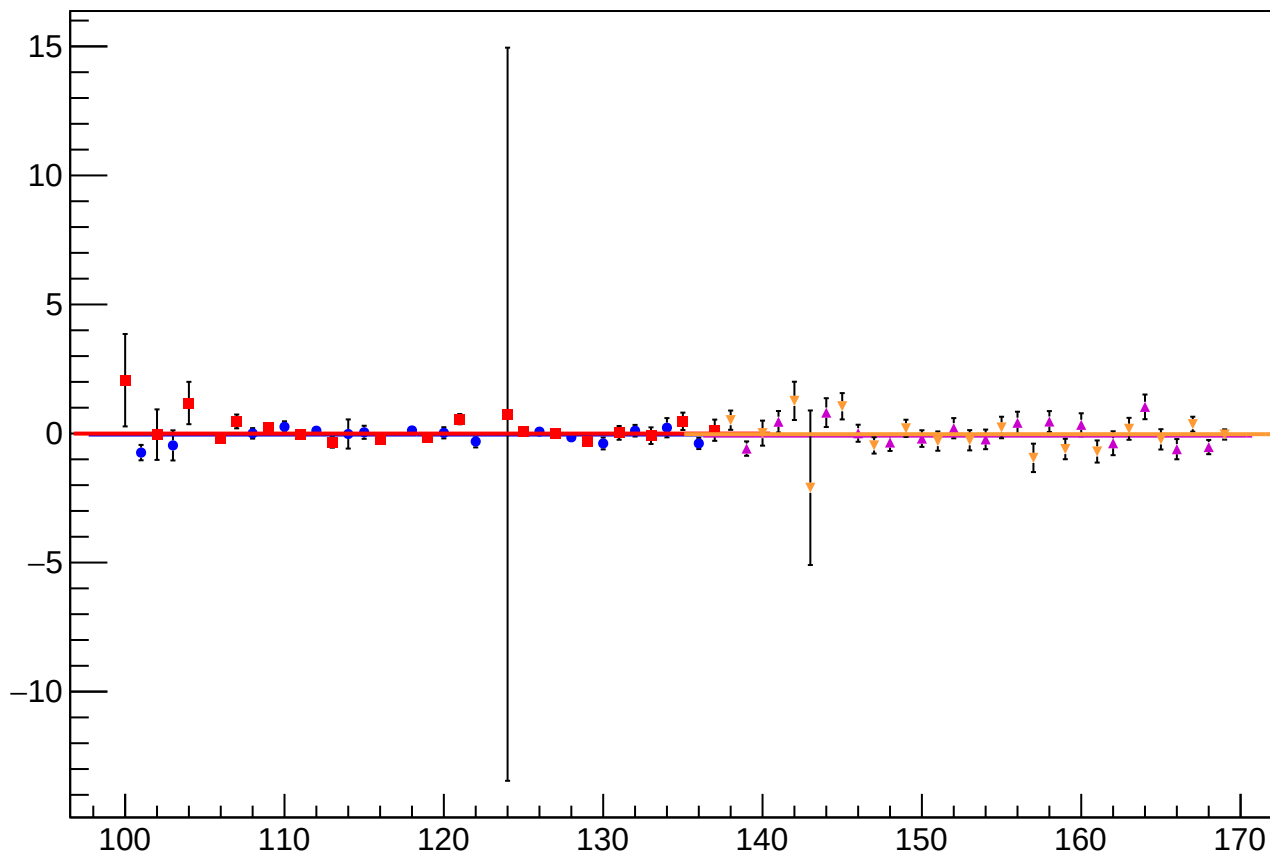
Right: 0.000+/-0.000 χ^2/NDF : 3471325.1/34

In: 0.000+/-0.000 χ^2/NDF : 2292303.8/30

Out: 0.000+/-0.000 χ^2/NDF : 8669617.1/35

All: 0.000+/-0.000 χ^2/NDF : 15360105.0/66

asym_atr1l2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.056 $\chi^2/\text{NDF}: 17.9/15$

Left Out: -0.026 ± 0.091 $\chi^2/\text{NDF}: 23.4/16$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.081 ± 0.096 $\chi^2/\text{NDF}: 23.3/14$

Left: -0.052 ± 0.066 $\chi^2/\text{NDF}: 46.8/31$

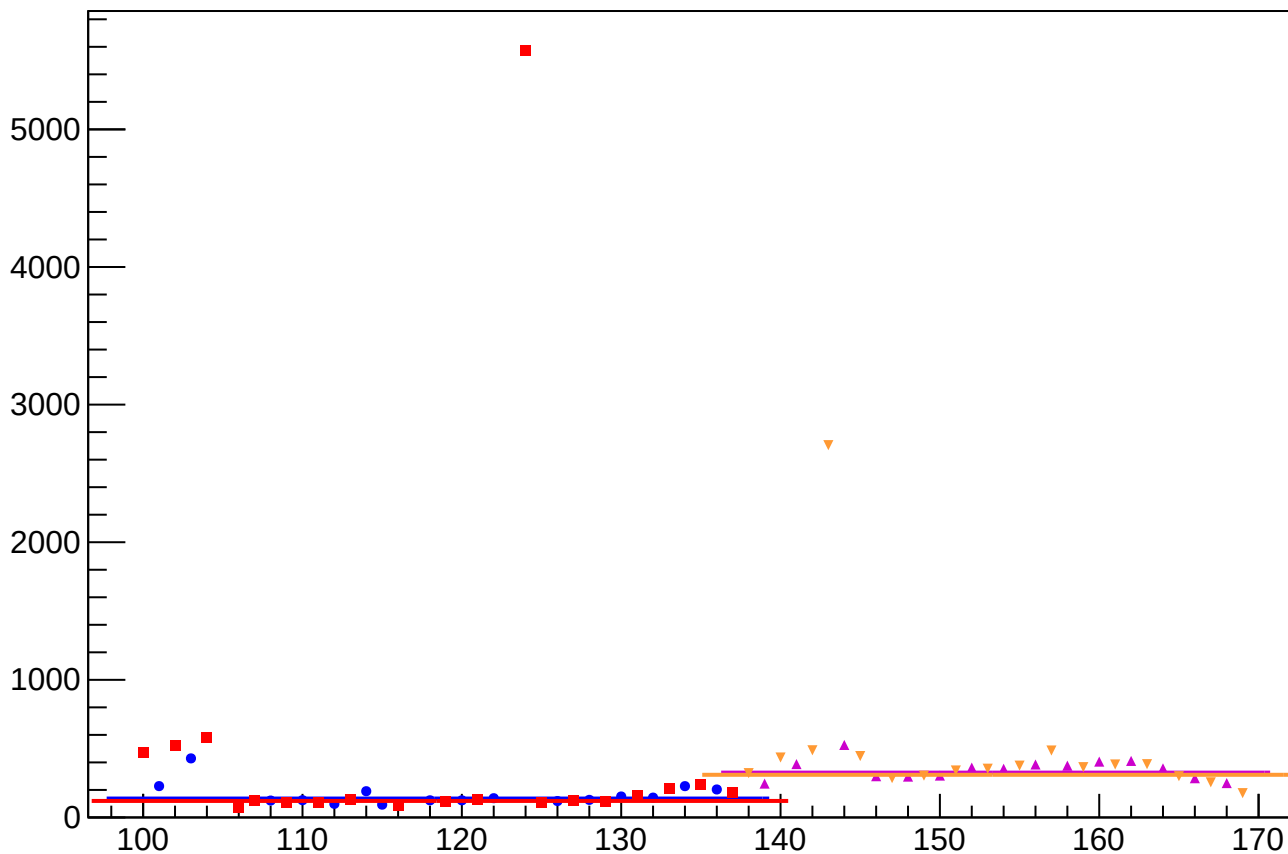
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.050 ± 0.048 $\chi^2/\text{NDF}: 41.4/30$

Out: -0.008 ± 0.044 $\chi^2/\text{NDF}: 52.1/35$

All: -0.028 ± 0.033 $\chi^2/\text{NDF}: 93.9/66$

asym_atr1l2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.399+/-0.039 χ^2/NDF : 1268257.0/15

Left Out: 310.001+/-0.065 χ^2/NDF : 3123791.3/16

Right Out: 120.006+/-0.036 χ^2/NDF : 2139894.0/18

Left In: 325.815+/-0.068 χ^2/NDF : 915636.9/14

Left: 317.515+/-0.047 χ^2/NDF : 4067954.6/31

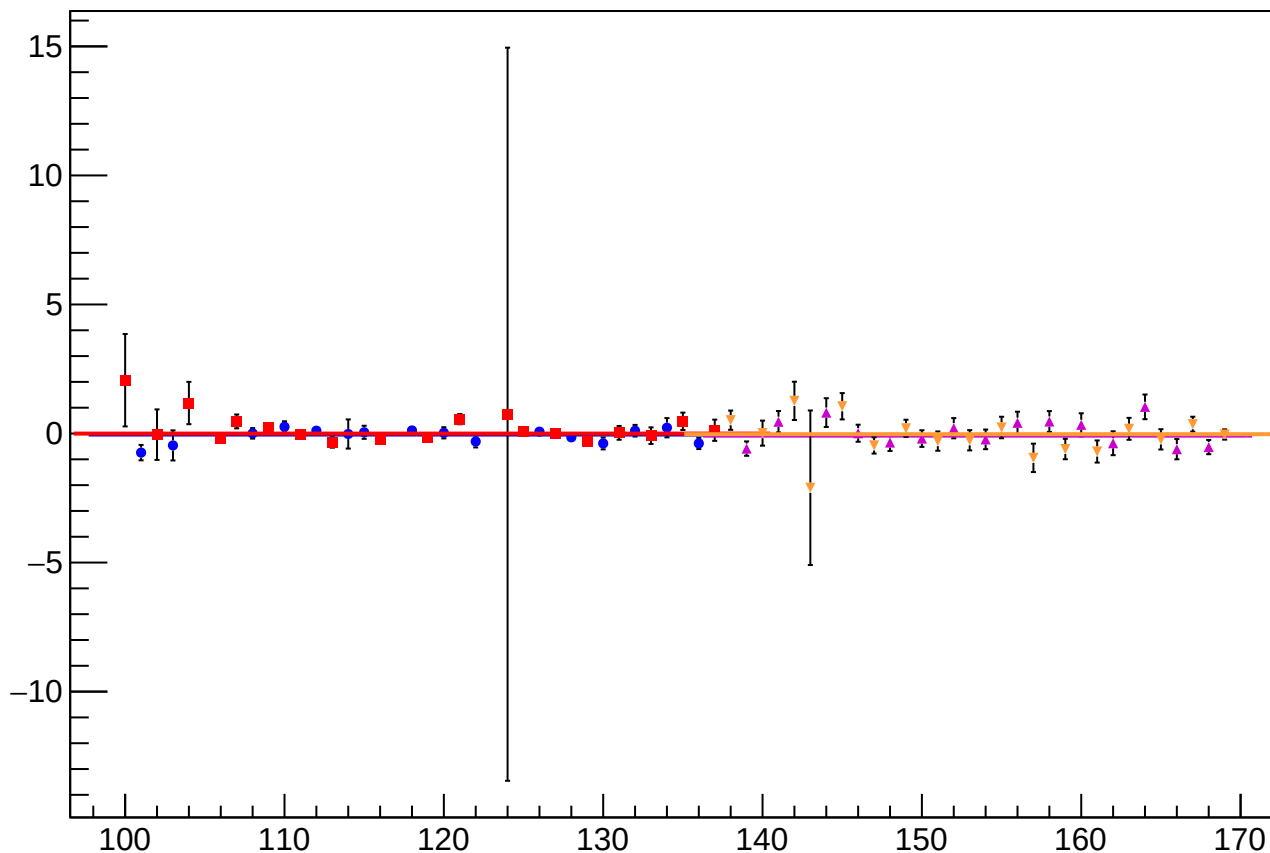
Right: 127.907+/-0.027 χ^2/NDF : 3514127.8/34

In: 185.060+/-0.034 χ^2/NDF : 7947844.8/30

Out: 165.113+/-0.031 χ^2/NDF : 11872765.9/35

All: 174.276+/-0.023 χ^2/NDF : 20005436.1/60

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.056 $\chi^2/\text{NDF}: 17.9/15$

Left Out: -0.026 ± 0.091 $\chi^2/\text{NDF}: 23.4/16$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.081 ± 0.096 $\chi^2/\text{NDF}: 23.3/14$

Left: -0.052 ± 0.066 $\chi^2/\text{NDF}: 46.8/31$

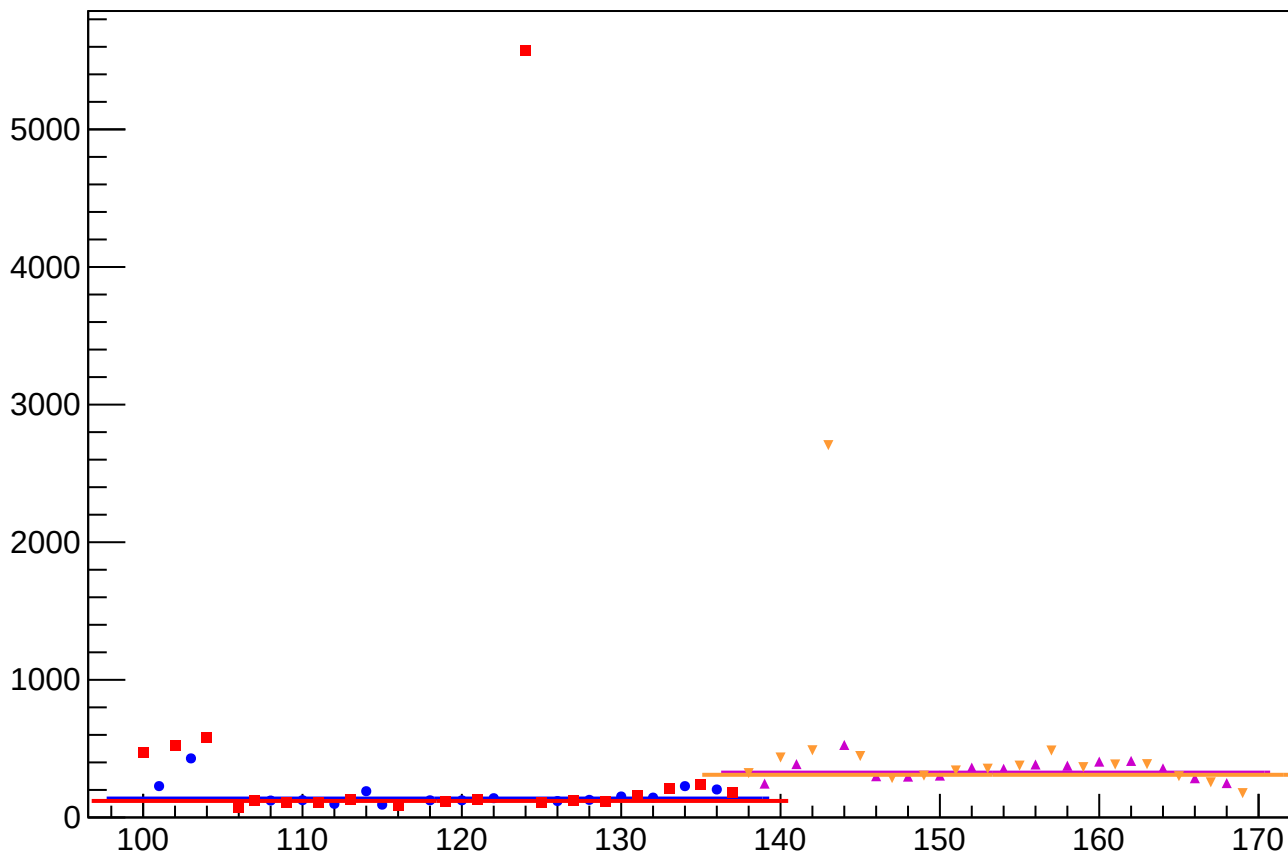
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.050 ± 0.048 $\chi^2/\text{NDF}: 41.4/30$

Out: -0.008 ± 0.044 $\chi^2/\text{NDF}: 52.1/35$

All: -0.028 ± 0.033 $\chi^2/\text{NDF}: 93.9/66$

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.399+/-0.039 χ^2/NDF : 1268257.0/15

Left Out: 310.001+/-0.065 χ^2/NDF : 3123791.3/16

Right Out: 120.006+/-0.036 χ^2/NDF : 2139894.0/18

Left In: 325.815+/-0.068 χ^2/NDF : 915636.9/14

Left: 317.515+/-0.047 χ^2/NDF : 4067954.6/31

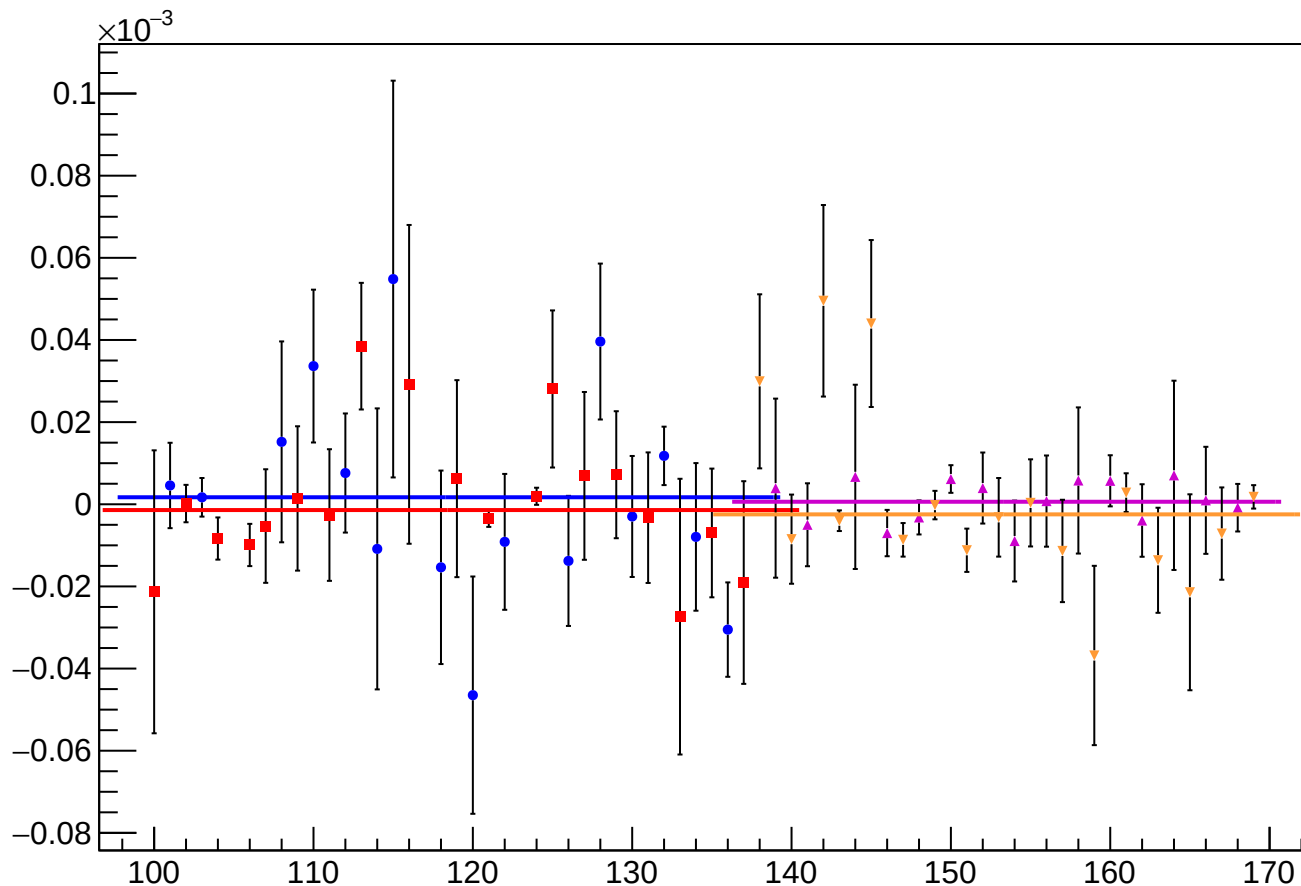
Right: 127.907+/-0.027 χ^2/NDF : 3514127.8/34

In: 185.060+/-0.034 χ^2/NDF : 7947844.8/30

Out: 165.113+/-0.031 χ^2/NDF : 11872765.9/35

All: 174.276+/-0.023 χ^2/NDF : 20005436.1/60

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 26.8/16

Right Out: -0.000+/-0.000 χ^2/NDF : 20.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.0/14

Left: -0.000+/-0.000 χ^2/NDF : 36.7/31

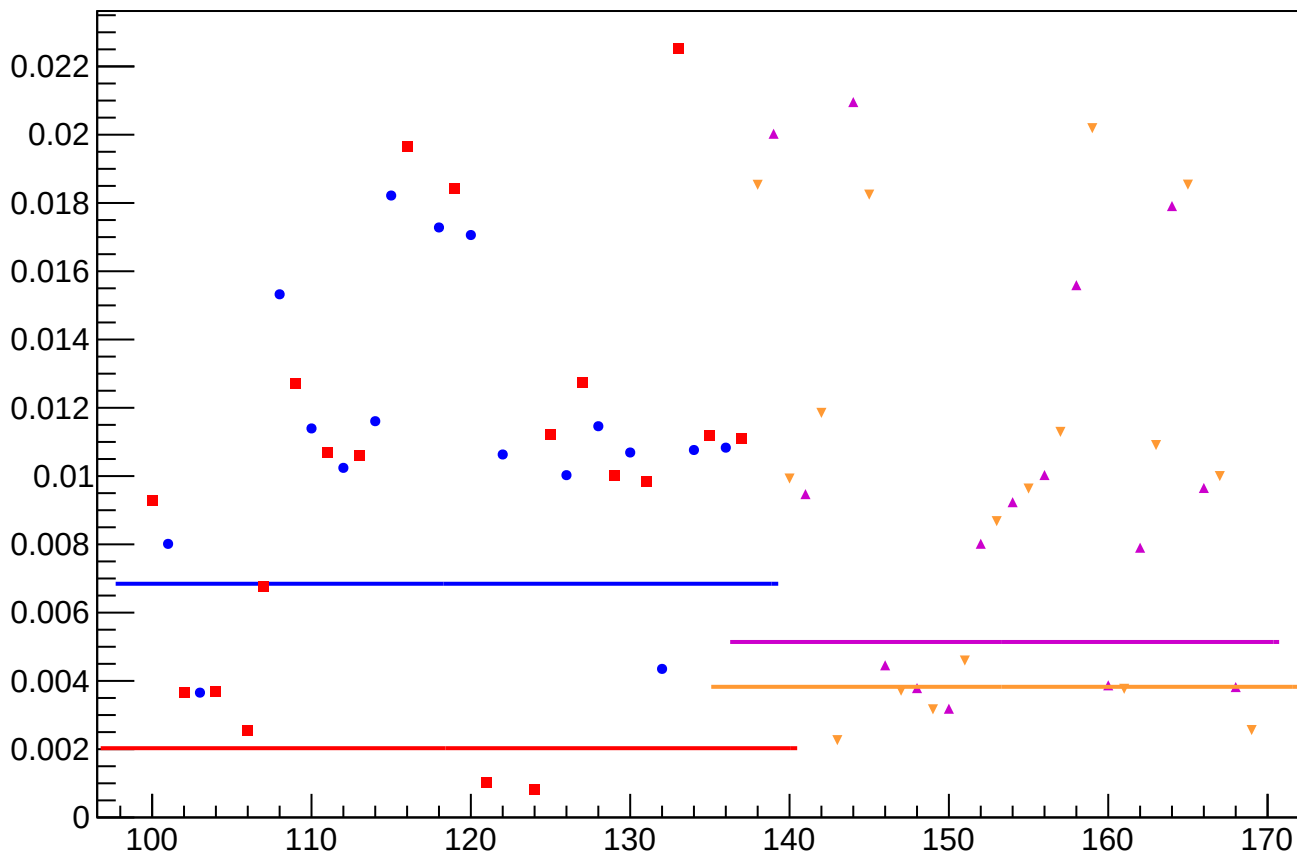
Right: -0.000+/-0.000 χ^2/NDF : 45.0/34

In: 0.000+/-0.000 χ^2/NDF : 31.9/30

Out: -0.000+/-0.000 χ^2/NDF : 47.4/35

All: -0.000+/-0.000 χ^2/NDF : 81.8/66

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3230112.6/15

Left Out: 0.004+/-0.000 χ^2/NDF : 9053864.4/16

Right Out: 0.002+/-0.000 χ^2/NDF : 9007527.0/18

Left In: 0.005+/-0.000 χ^2/NDF : 6094333.2/14

Left: 0.004+/-0.000 χ^2/NDF : 15828211.6/31

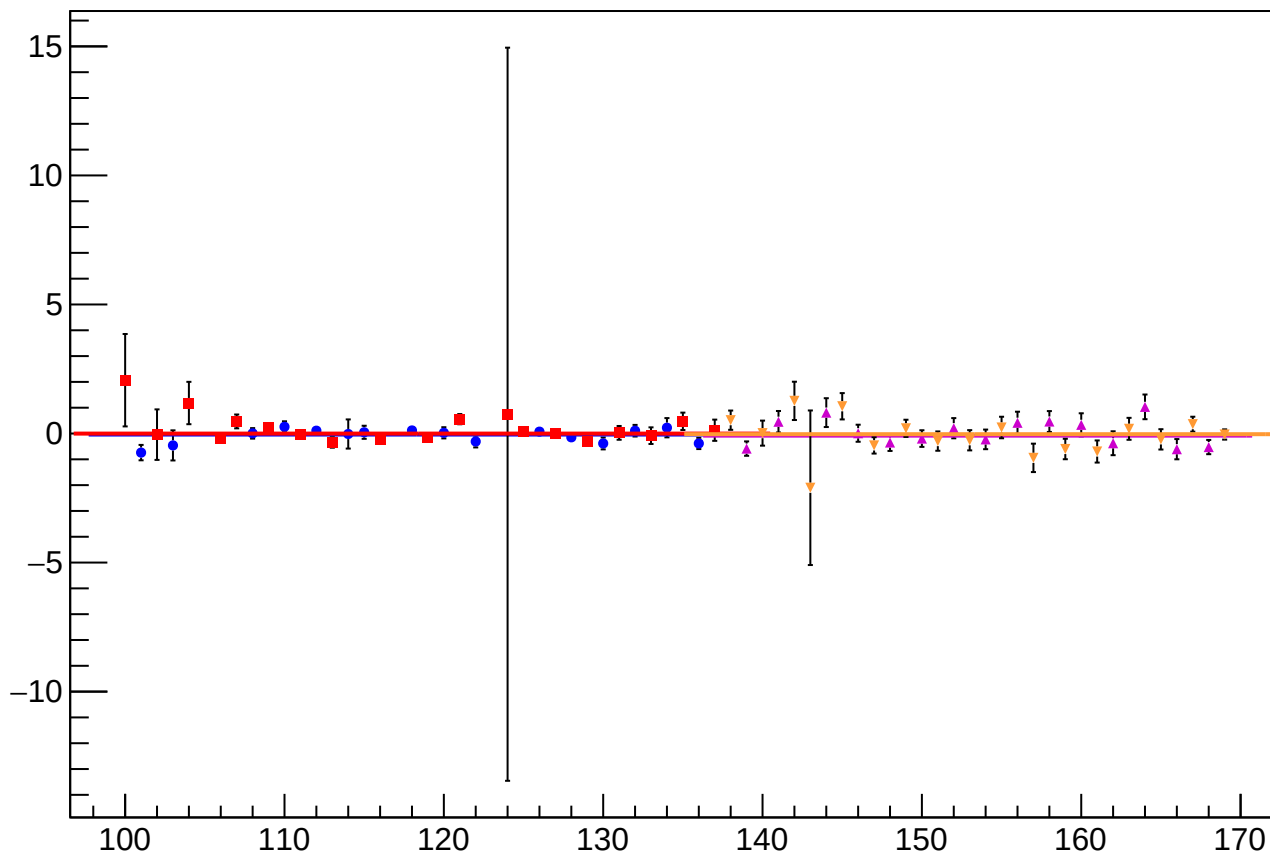
Right: 0.003+/-0.000 χ^2/NDF : 16707172.2/34

In: 0.006+/-0.000 χ^2/NDF : 9804992.5/30

Out: 0.003+/-0.000 χ^2/NDF : 19990921.2/35

All: 0.004+/-0.000 χ^2/NDF : 34401079.1/66

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.056 $\chi^2/\text{NDF}: 17.9/15$

Left Out: -0.026 ± 0.091 $\chi^2/\text{NDF}: 23.4/16$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.081 ± 0.096 $\chi^2/\text{NDF}: 23.3/14$

Left: -0.052 ± 0.066 $\chi^2/\text{NDF}: 46.8/31$

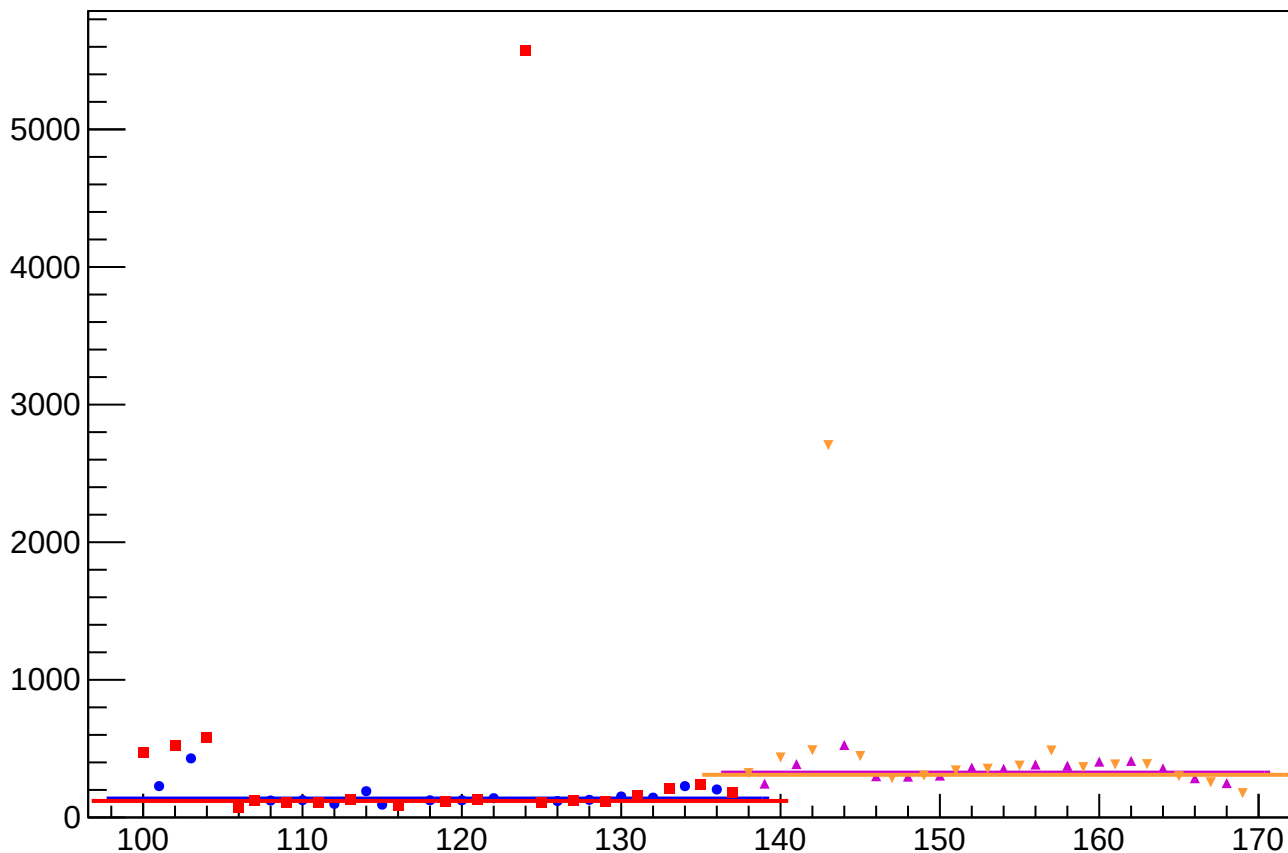
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.050 ± 0.048 $\chi^2/\text{NDF}: 41.4/30$

Out: -0.008 ± 0.044 $\chi^2/\text{NDF}: 52.1/35$

All: -0.028 ± 0.033 $\chi^2/\text{NDF}: 93.9/66$

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.400 $\pm$ 0.039 χ^2 /NDF: 1268197.9/15

Left Out: 310.004 $\pm$ 0.065 χ^2 /NDF: 3123859.8/16

Right Out: 120.006 $\pm$ 0.036 χ^2 /NDF: 2139820.8/18

Left In: 325.820 $\pm$ 0.068 χ^2 /NDF: 915635.4/14

Left: 317.519 $\pm$ 0.047 χ^2 /NDF: 4068027.3/31

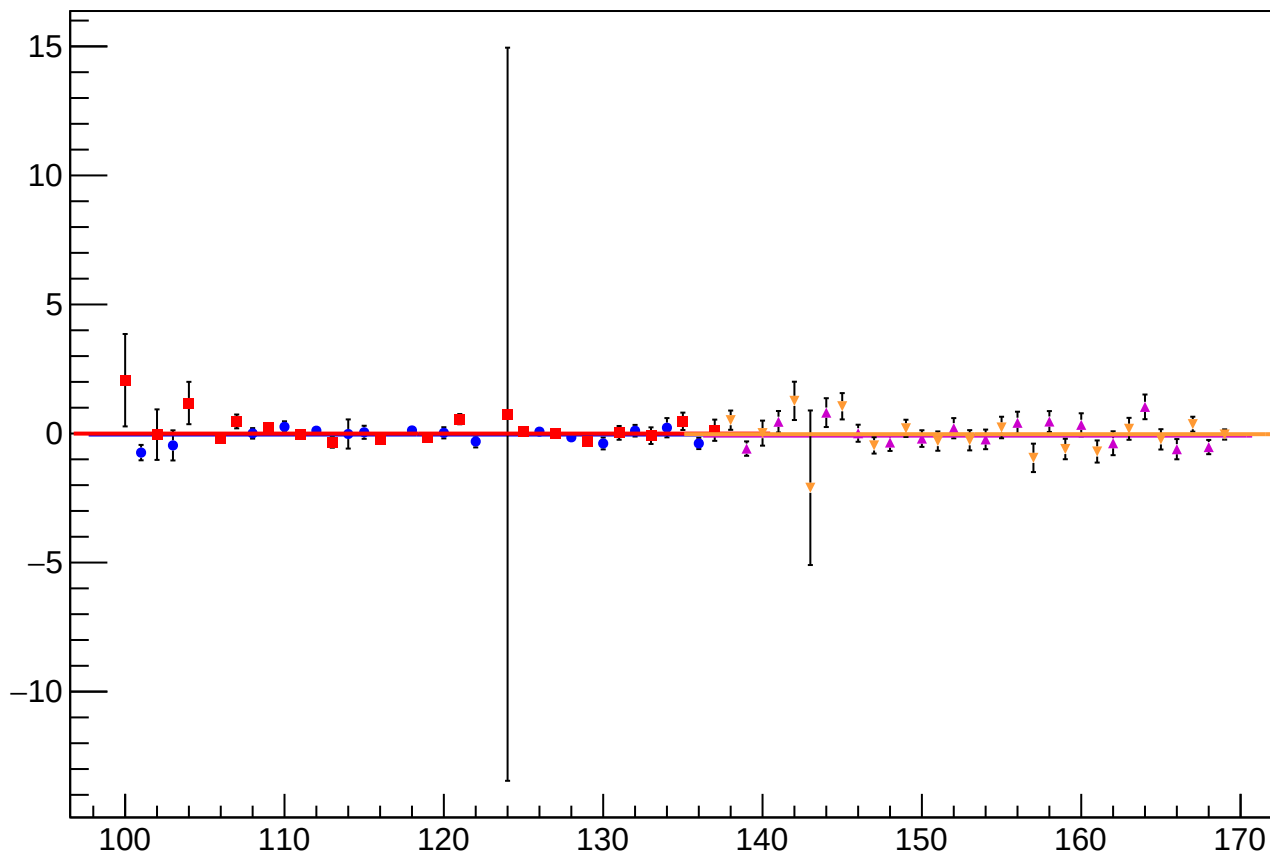
Right: 127.907 $\pm$ 0.027 χ^2 /NDF: 3514005.7/34

In: 185.062 $\pm$ 0.034 χ^2 /NDF: 7947874.0/30

Out: 165.113 $\pm$ 0.031 χ^2 /NDF: 11872857.9/35

All: 174.277 $\pm$ 0.023 χ^2 /NDF: 20005580.3/66

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.056 $\chi^2/\text{NDF}: 17.9/15$

Left Out: -0.026 ± 0.091 $\chi^2/\text{NDF}: 23.4/16$

Right Out: -0.003 ± 0.051 $\chi^2/\text{NDF}: 28.7/18$

Left In: -0.081 ± 0.096 $\chi^2/\text{NDF}: 23.3/14$

Left: -0.052 ± 0.066 $\chi^2/\text{NDF}: 46.8/31$

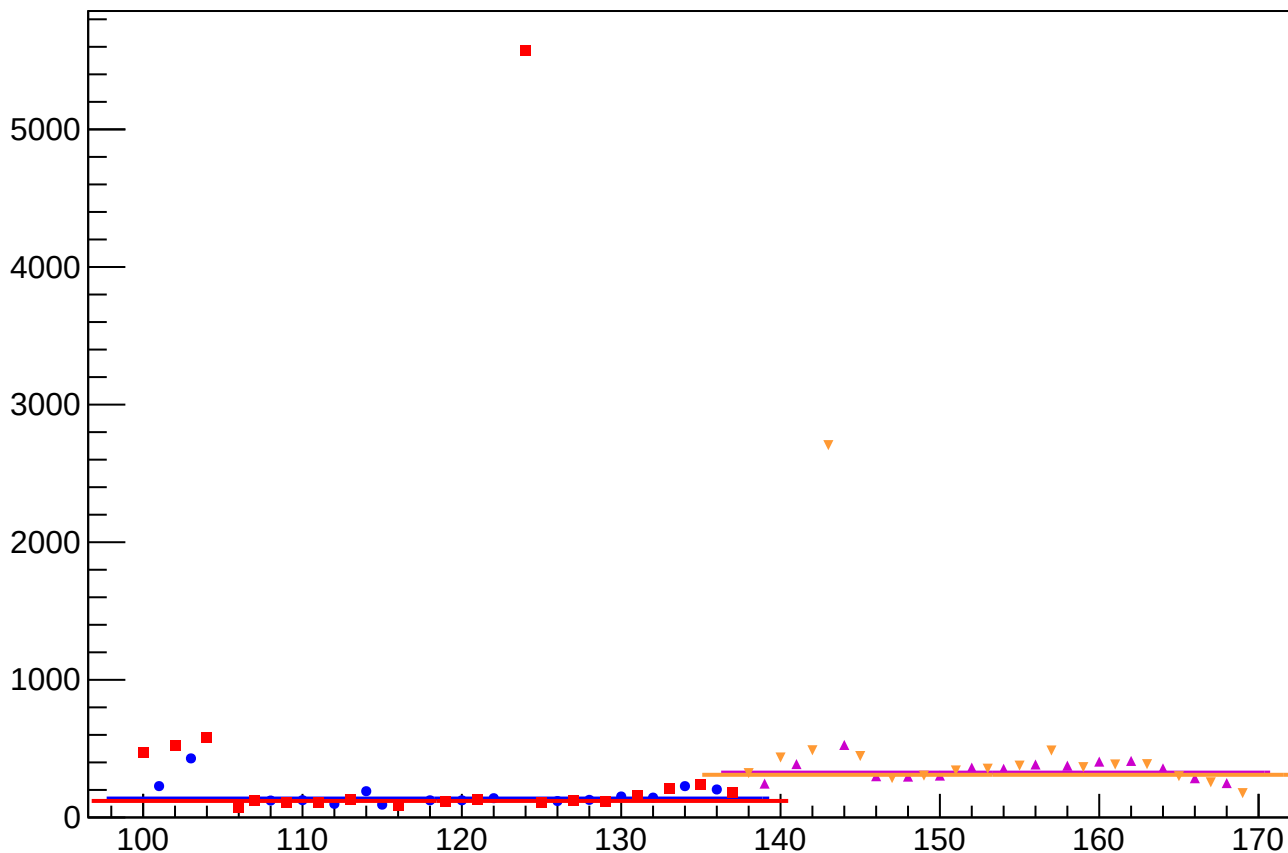
Right: -0.020 ± 0.038 $\chi^2/\text{NDF}: 46.9/34$

In: -0.050 ± 0.048 $\chi^2/\text{NDF}: 41.4/30$

Out: -0.008 ± 0.044 $\chi^2/\text{NDF}: 52.1/35$

All: -0.028 ± 0.033 $\chi^2/\text{NDF}: 93.9/66$

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.400 $\pm$ 0.039 χ^2 /NDF: 1268197.9/15

Left Out: 310.004 $\pm$ 0.065 χ^2 /NDF: 3123859.8/16

Right Out: 120.006 $\pm$ 0.036 χ^2 /NDF: 2139820.8/18

Left In: 325.820 $\pm$ 0.068 χ^2 /NDF: 915635.4/14

Left: 317.519 $\pm$ 0.047 χ^2 /NDF: 4068027.3/31

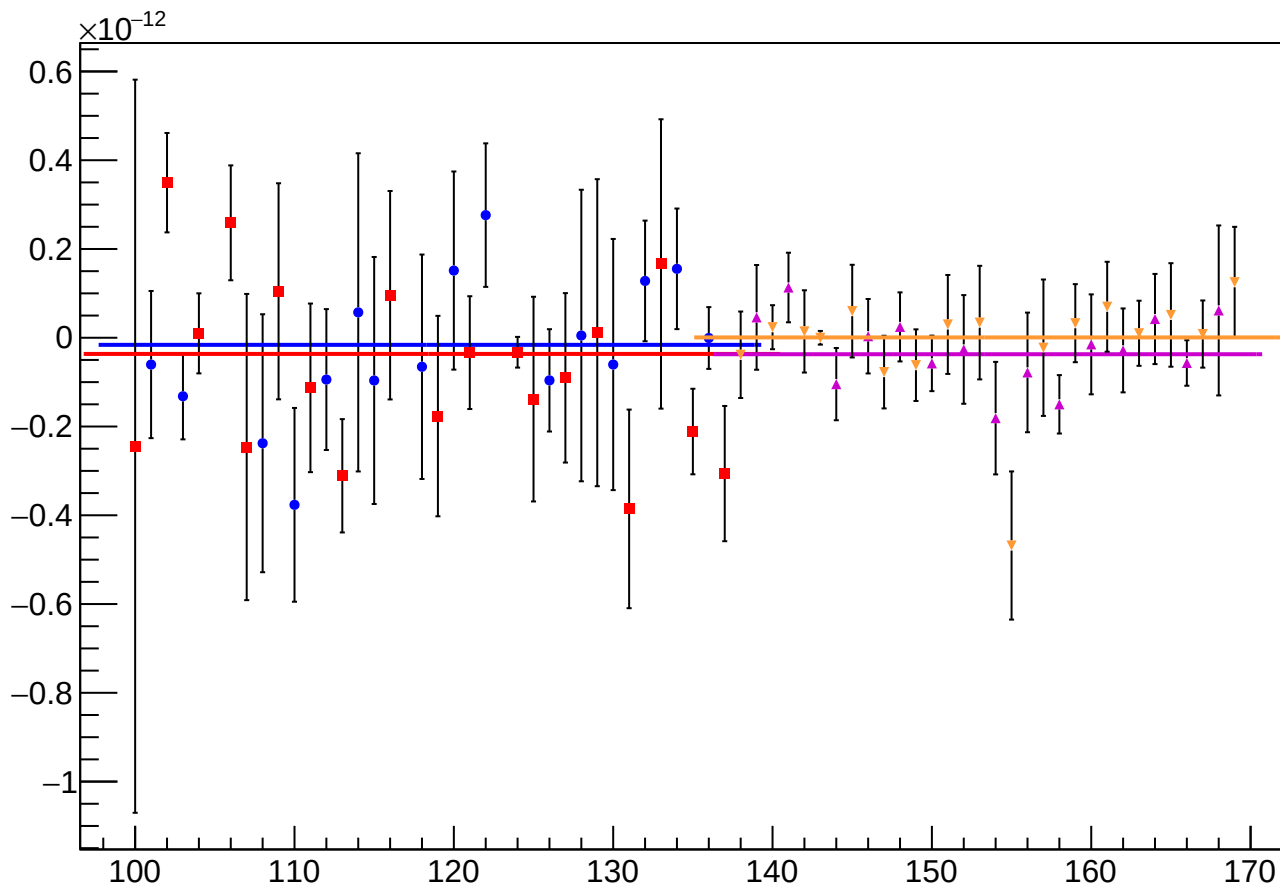
Right: 127.907 $\pm$ 0.027 χ^2 /NDF: 3514005.7/34

In: 185.062 $\pm$ 0.034 χ^2 /NDF: 7947874.0/30

Out: 165.113 $\pm$ 0.031 χ^2 /NDF: 11872857.9/35

All: 174.277 $\pm$ 0.023 χ^2 /NDF: 20005580.3/66

asym_atr12_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 12.3/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 12.1/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 33.2/18

Left In: -0.000 ± 0.000 χ^2/NDF : 11.2/14

Left: -0.000 ± 0.000 χ^2/NDF : 25.5/31

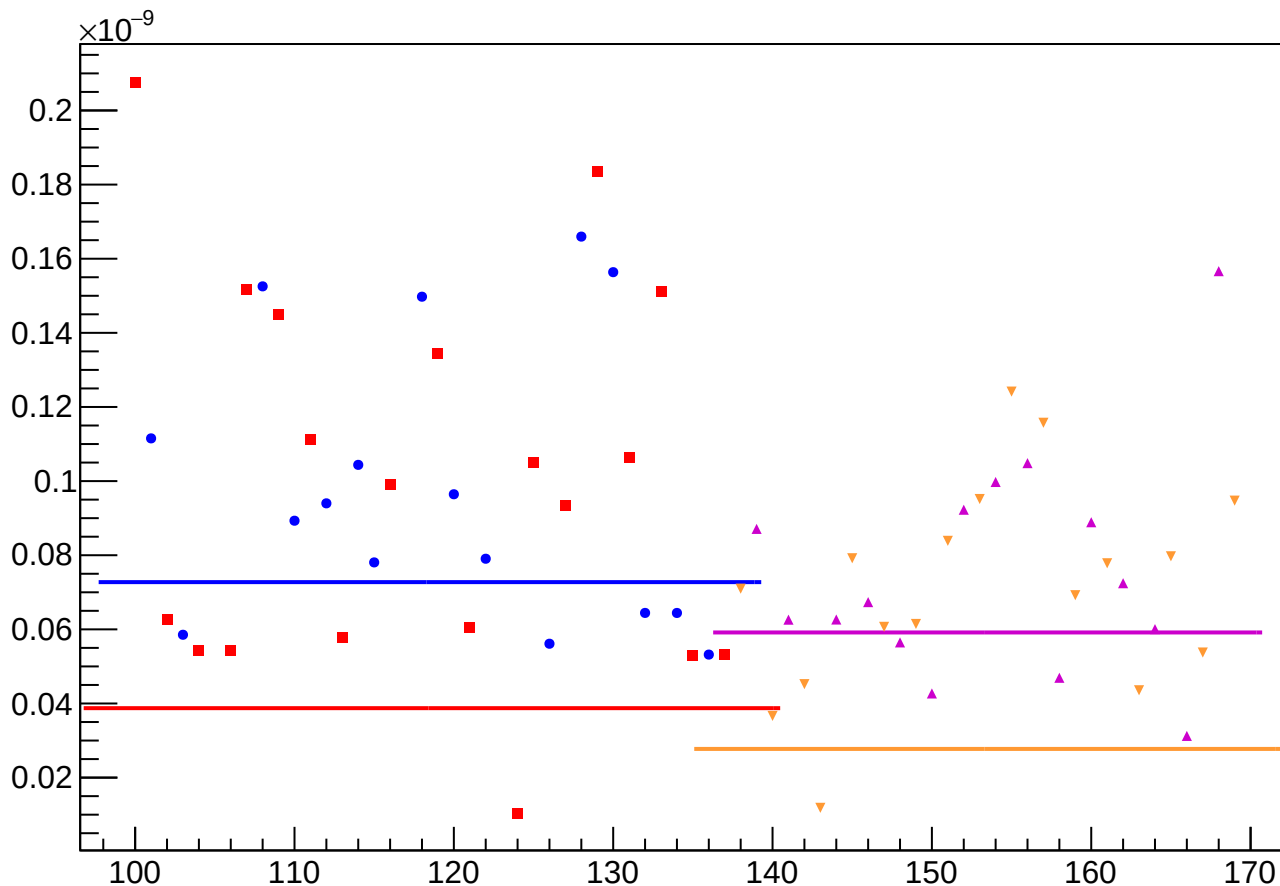
Right: -0.000 ± 0.000 χ^2/NDF : 45.7/34

In: -0.000 ± 0.000 χ^2/NDF : 23.8/30

Out: -0.000 ± 0.000 χ^2/NDF : 47.0/35

All: -0.000 ± 0.000 χ^2/NDF : 72.0/66

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1128031.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 8430503.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4266020.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 2220097.1/14

Left: 0.000+/-0.000 χ^2/NDF : 13697883.4/31

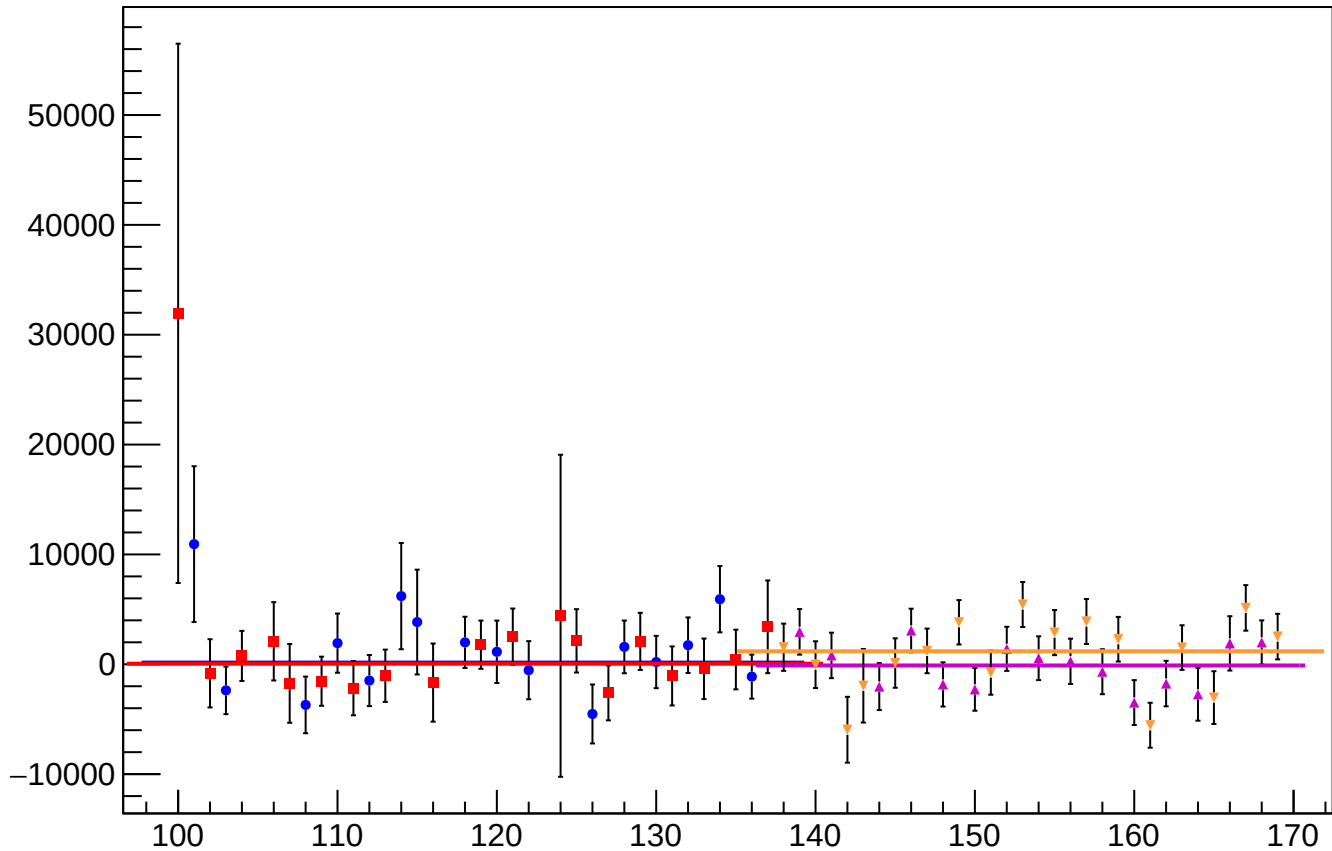
Right: 0.000+/-0.000 χ^2/NDF : 6532086.1/34

In: 0.000+/-0.000 χ^2/NDF : 3545126.2/30

Out: 0.000+/-0.000 χ^2/NDF : 12995747.6/35

All: 0.000+/-0.000 χ^2/NDF : 20921025.0/66

reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 150.722 $\pm$ 667.029 χ^2 /NDF: 17.7/15

Left Out: 1183.936 $\pm$ 523.808 χ^2 /NDF:34.8/16

Right Out: 54.106 $\pm$ 655.266 χ^2 /NDF: 9.0/18

Left In: -108.244 $\pm$ 535.887 χ^2 /NDF:14.9/14

Left: 552.573 $\pm$ 374.586 χ^2 /NDF: 52.6/31

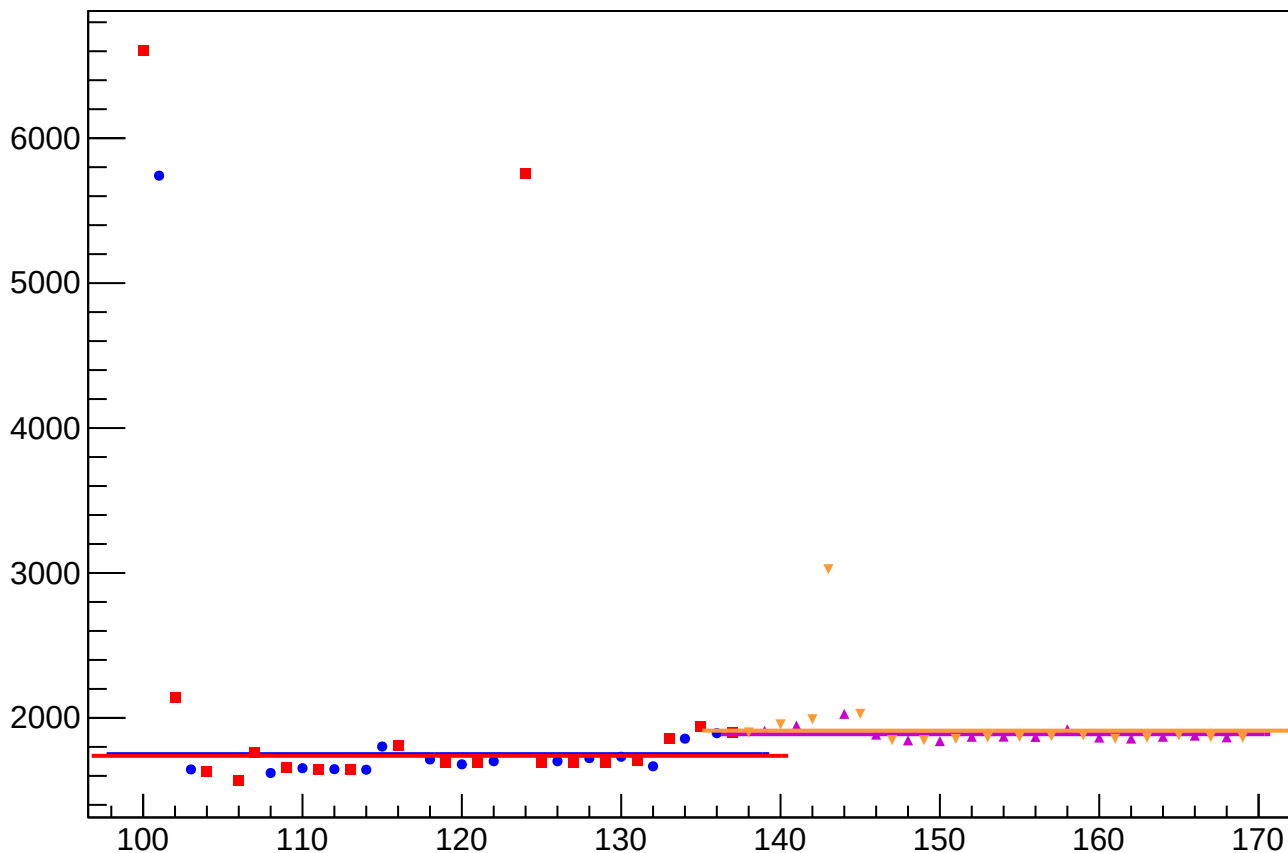
Right: 101.554 $\pm$ 467.446 χ^2 /NDF: 26.6/34

In: -6.662 $\pm$ 417.765 χ^2 /NDF:32.6/30

Out: 743.442 $\pm$ 409.148 χ^2 /NDF:45.6/35

All: 376.205 $\pm$ 292.310 χ^2 /NDF: 79.8/66

reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1749.864+/-0.472 χ^2/NDF : 669576.0/15

Left Out: 1912.151+/-0.370 χ^2/NDF : 242787.6/16

Right Out: 1738.493+/-0.460 χ^2/NDF : 304493.3/18

Left In: 1887.414+/-0.379 χ^2/NDF : 14703.3/14

Left: 1900.065+/-0.265 χ^2/NDF : 259670.3/31

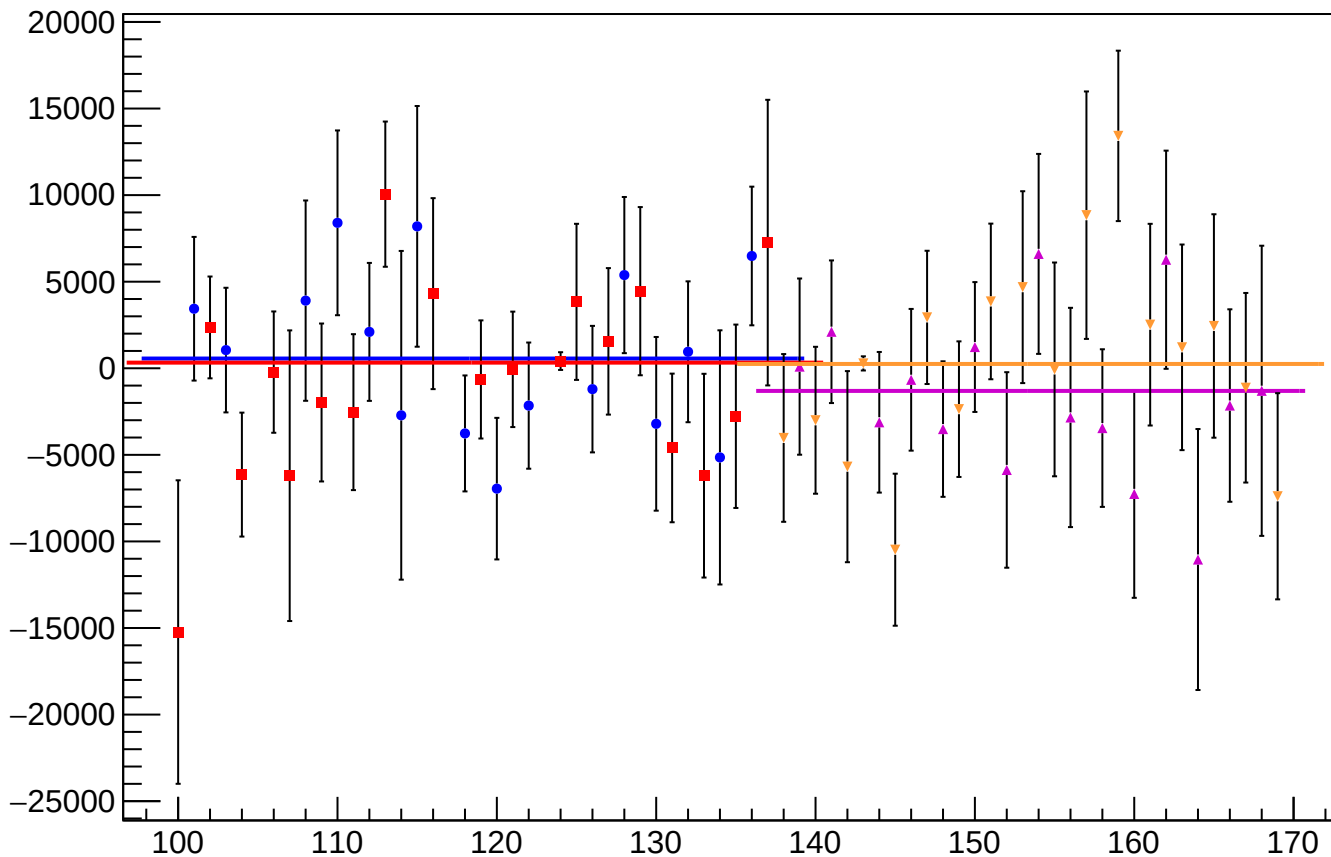
Right: 1744.036+/-0.329 χ^2/NDF : 974367.2/34

In: 1833.459+/-0.295 χ^2/NDF : 735965.9/30

Out: 1843.837+/-0.288 χ^2/NDF : 633756.3/35

All: 1838.771+/-0.206 χ^2/NDF : 1370354.0/66

asym_atr1l2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 562.339 ± 1101.163 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 249.230 ± 389.146 $\chi^2/\text{NDF}: 21.3/16$

Right Out: 325.567 ± 457.948 $\chi^2/\text{NDF}: 19.2/18$

Left In: -1307.870 ± 1284.456 $\chi^2/\text{NDF}: 8.7/14$

Left: 118.322 ± 372.429 $\chi^2/\text{NDF}: 31.4/31$

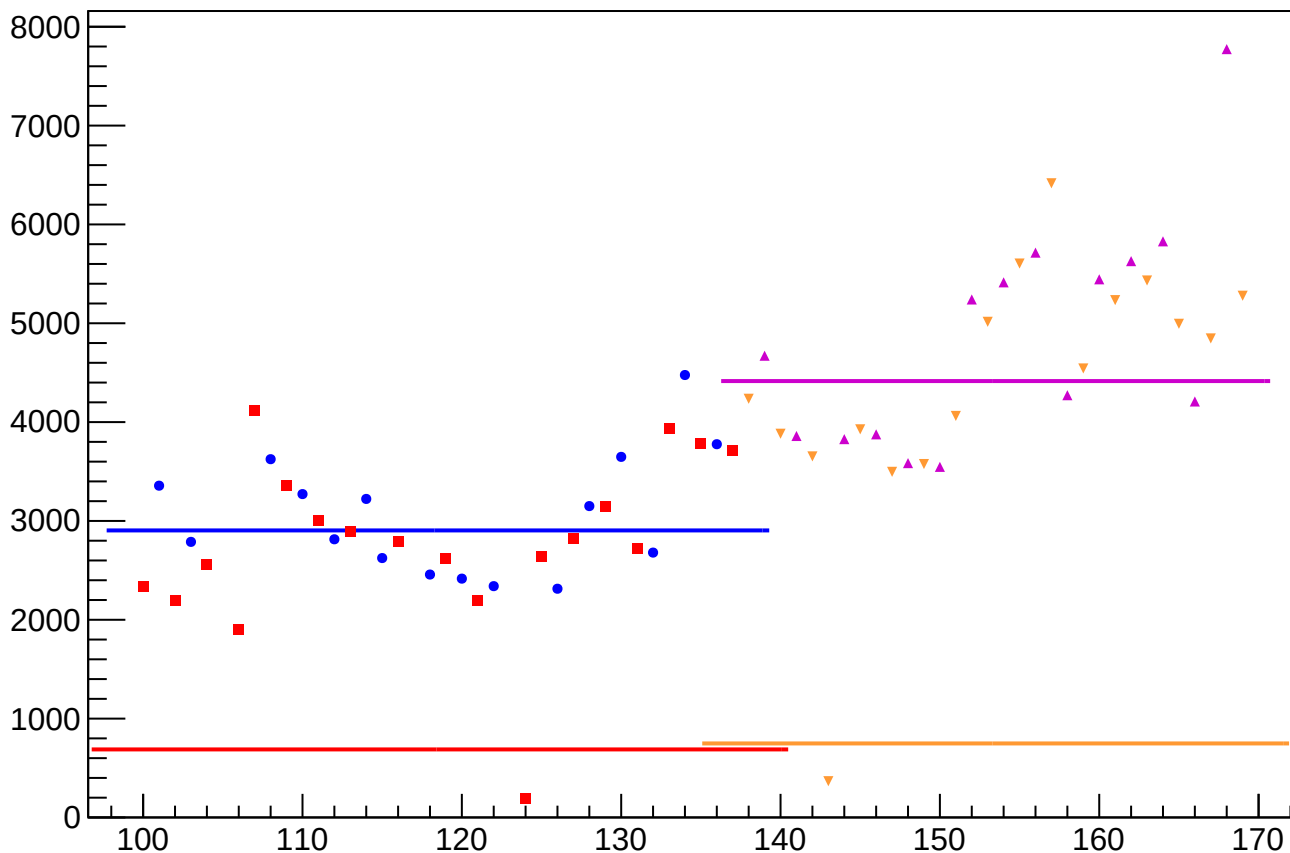
Right: 360.479 ± 422.840 $\chi^2/\text{NDF}: 34.1/34$

In: -229.916 ± 836.001 $\chi^2/\text{NDF}: 24.7/30$

Out: 281.239 ± 296.541 $\chi^2/\text{NDF}: 40.6/35$

All: 224.112 ± 279.479 $\chi^2/\text{NDF}: 65.6/66$

asym_atr1l2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 2904.059 $\pm$ 0.779

χ^2 /NDF: 479774.3/15

Left Out: 748.816 $\pm$ 0.275

χ^2 /NDF: 19069759.8/16

Right Out: 688.319 $\pm$ 0.324

χ^2 /NDF: 10148914.1/18

Left In: 4415.183 $\pm$ 0.908

χ^2 /NDF: 1031602.9/14

Left: 1057.052 $\pm$ 0.263

χ^2 /NDF: 35026726.9/31

Right: 1015.033 $\pm$ 0.299

χ^2 /NDF: 17532420.1/34

In: 3544.199 $\pm$ 0.591

χ^2 /NDF: 3106894.4/30

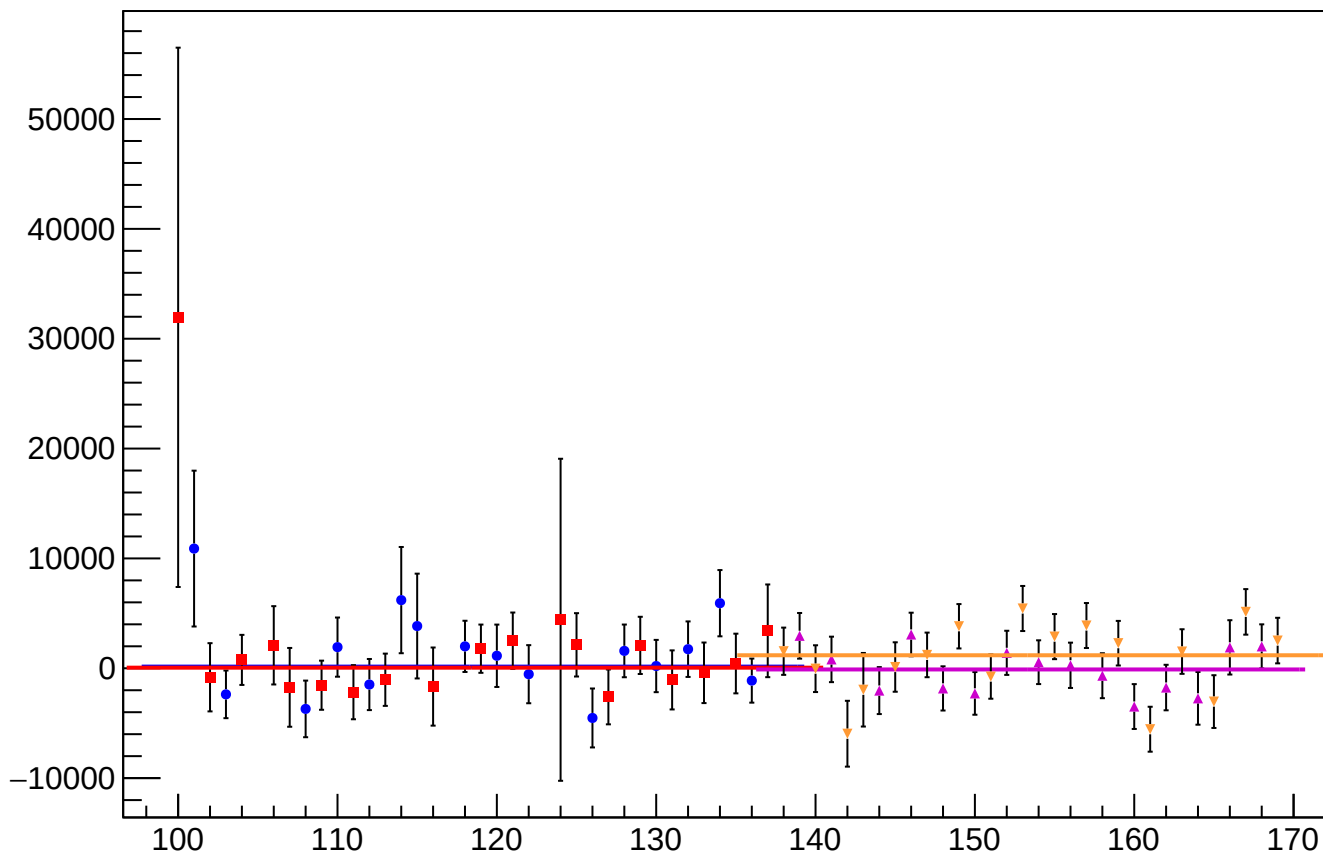
Out: 723.449 $\pm$ 0.210

χ^2 /NDF: 29238941.5/35

All: 1038.696 $\pm$ 0.198

χ^2 /NDF: 52570269.2/6

cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 150.254 $\pm$ 667.029 χ^2 /NDF: 17.6/15

Left Out: 1183.911 $\pm$ 523.808 χ^2 /NDF:34.8/16

Right Out: 54.158 $\pm$ 655.266 χ^2 /NDF: 9.0/18

Left In: -108.273 $\pm$ 535.887 χ^2 /NDF:14.9/14

Left: 552.546 $\pm$ 374.586 χ^2 /NDF: 52.6/31

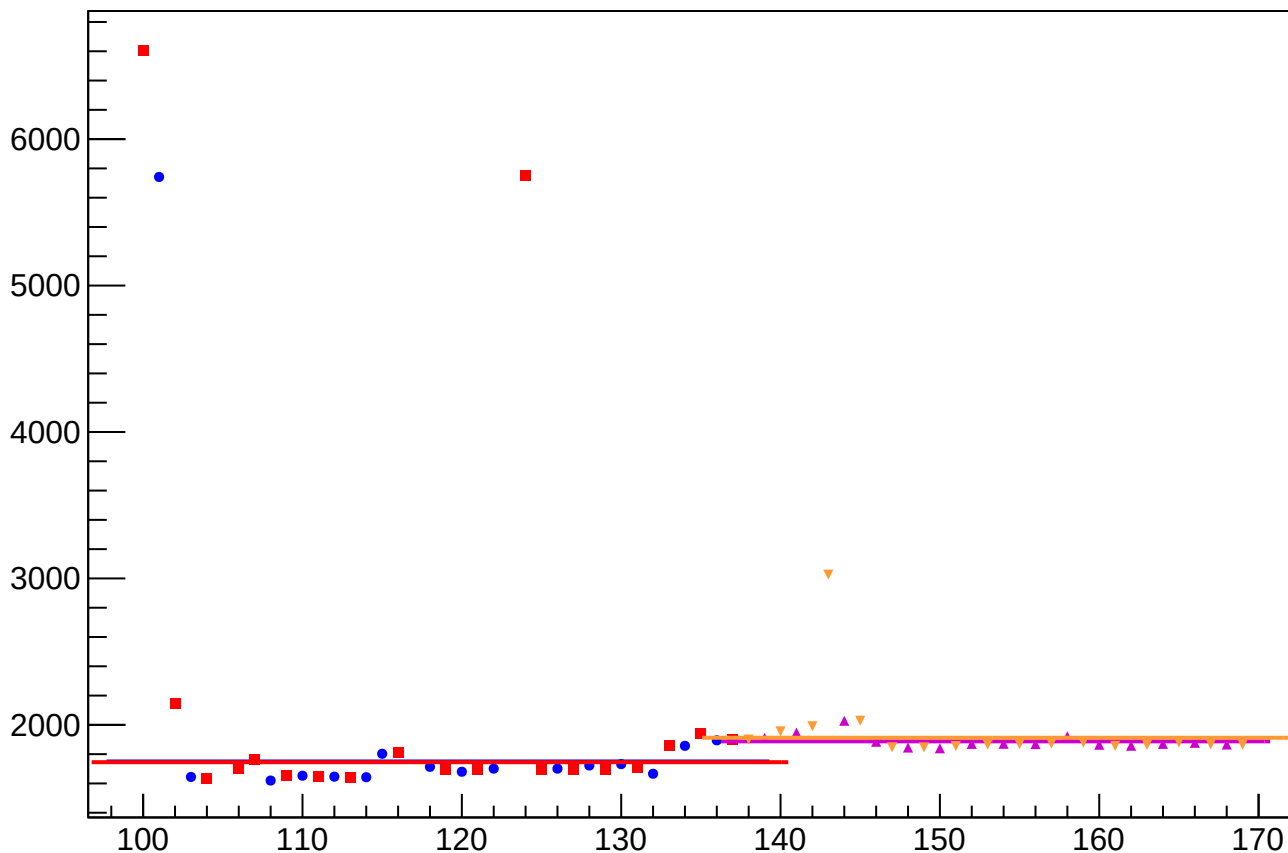
Right: 101.351 $\pm$ 467.446 χ^2 /NDF: 26.6/34

In: -6.863 $\pm$ 417.765 χ^2 /NDF:32.6/30

Out: 743.447 $\pm$ 409.148 χ^2 /NDF:45.6/35

All: 376.109 $\pm$ 292.310 χ^2 /NDF: 79.8/66

cor_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1749.864+/-0.472 χ^2/NDF : 669576.1/15

Left Out: 1912.151+/-0.370 χ^2/NDF : 242787.6/16

Right Out: 1745.188+/-0.462 χ^2/NDF : 297979.0/18

Left In: 1887.414+/-0.379 χ^2/NDF : 14703.3/14

Left: 1900.065+/-0.265 χ^2/NDF : 259670.3/31

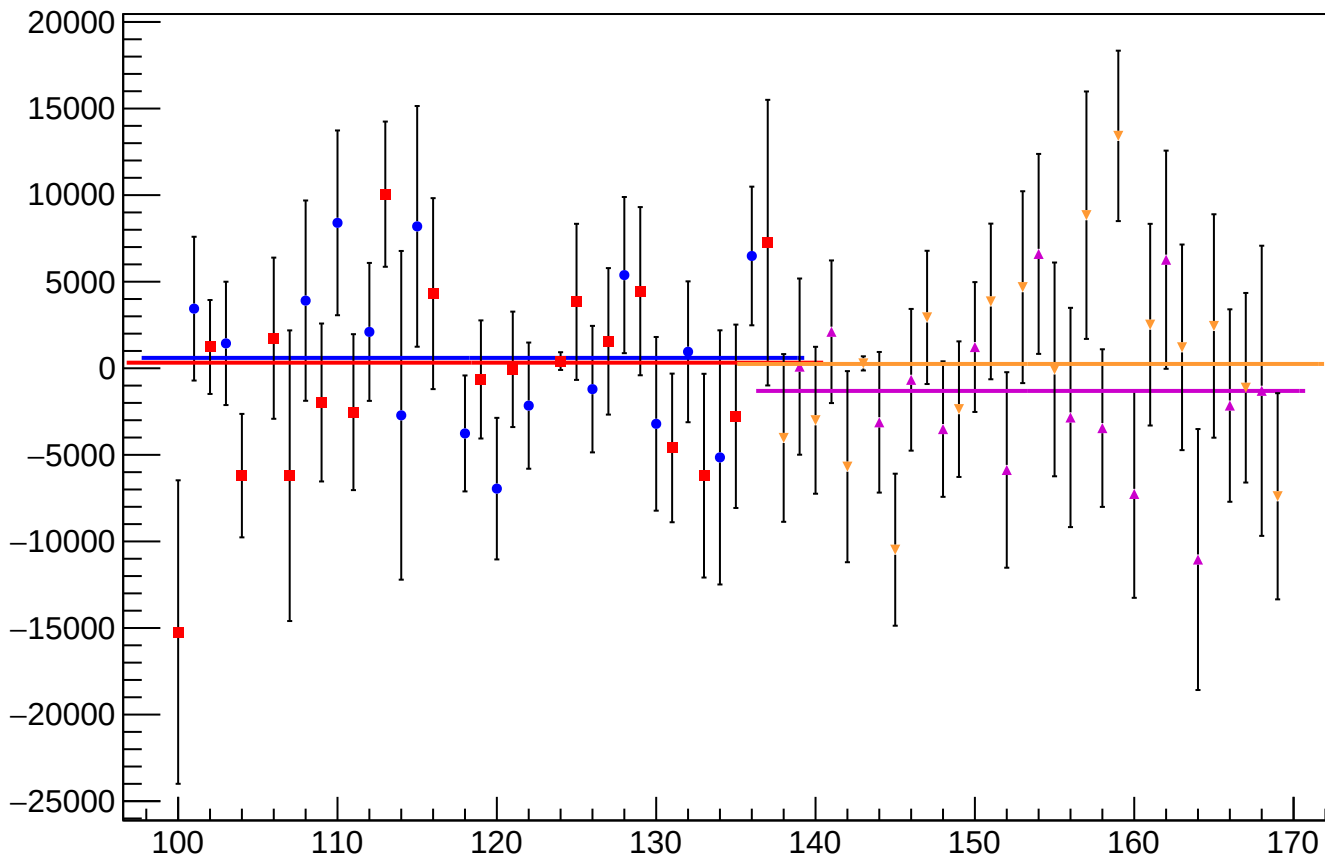
Right: 1747.476+/-0.330 χ^2/NDF : 967605.3/34

In: 1833.459+/-0.295 χ^2/NDF : 735966.3/30

Out: 1846.759+/-0.289 χ^2/NDF : 620352.3/35

All: 1840.257+/-0.207 χ^2/NDF : 1357354.8/66

asym_atr1l2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 600.202 $\pm$ 1100.125 χ^2 /NDF: 14.9/15

Left Out: 250.176 $\pm$ 389.177 χ^2 /NDF:21.3/16

Right Out: 323.164 $\pm$ 458.862 χ^2 /NDF: 19.0/18

Left In: -1307.958 $\pm$ 1284.454 χ^2 /NDF:8.7/14

Left: 119.162 $\pm$ 372.456 χ^2 /NDF: 31.4/31

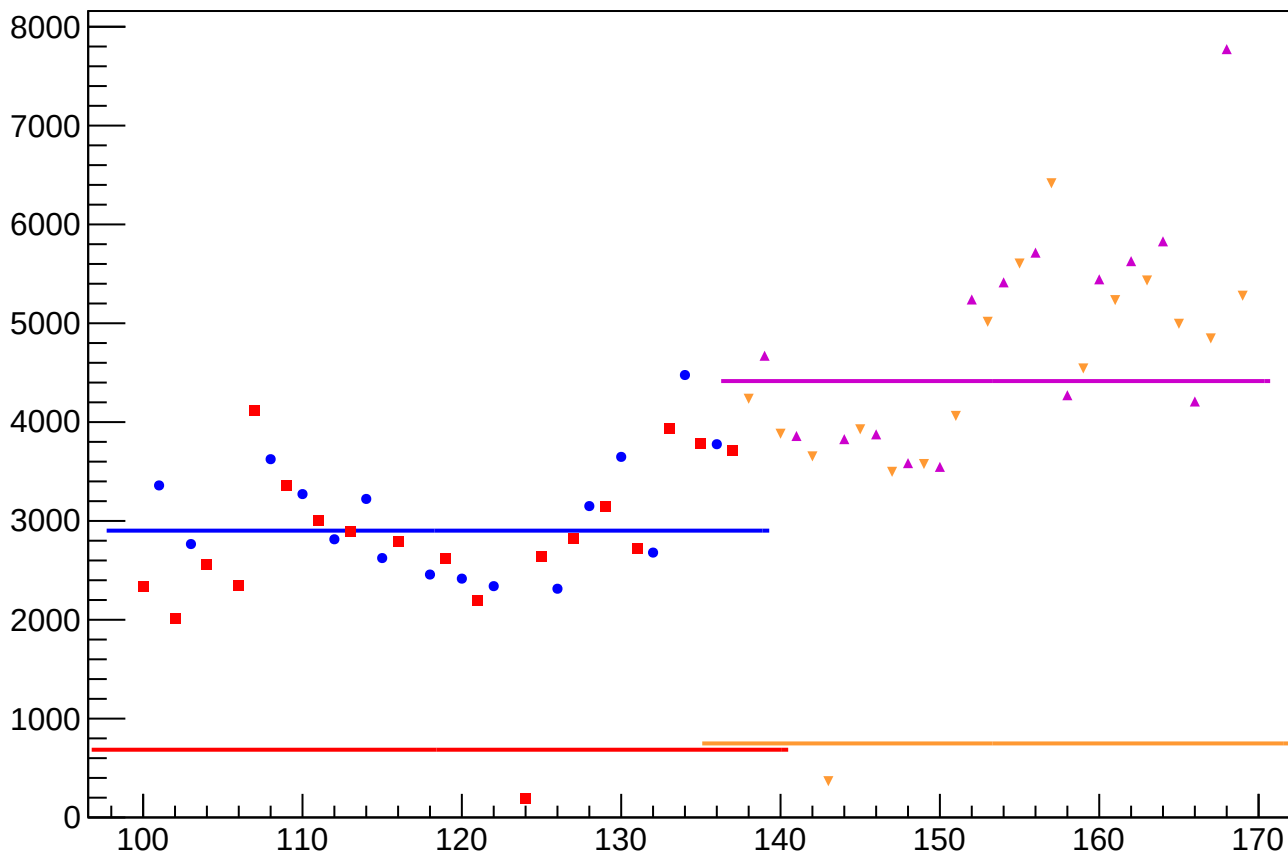
Right: 364.218 $\pm$ 423.500 χ^2 /NDF: 33.9/34

In: -207.253 $\pm$ 835.546 χ^2 /NDF:24.8/30

Out: 280.713 $\pm$ 296.802 χ^2 /NDF:40.4/35

All: 226.040 $\pm$ 279.681 χ^2 /NDF: 65.5/66

asym_atr1l2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2901.861 ± 0.778 $\chi^2/\text{NDF}: 480934.2/15$

Left Out: 748.914 ± 0.275 $\chi^2/\text{NDF}: 19069078.9/16$

Right Out: 685.257 ± 0.324 $\chi^2/\text{NDF}: 10105797.4/18$

Left In: 4415.175 ± 0.908 $\chi^2/\text{NDF}: 1031618.1/14$

Left: 1057.188 ± 0.263 $\chi^2/\text{NDF}: 35025034.6/31$

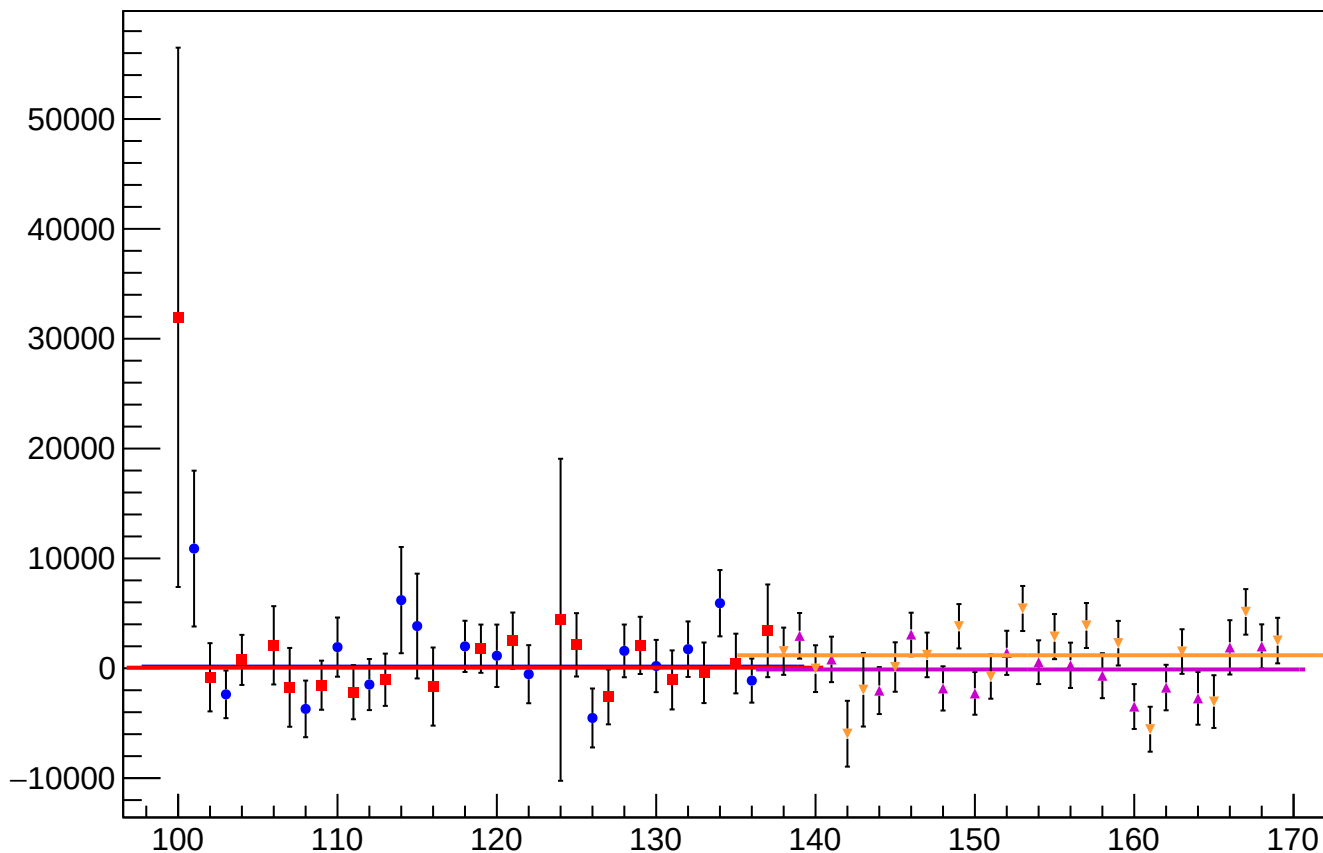
Right: 1013.738 ± 0.299 $\chi^2/\text{NDF}: 17502877.4/34$

In: 3542.233 ± 0.591 $\chi^2/\text{NDF}: 3113978.0/30$

Out: 722.281 ± 0.210 $\chi^2/\text{NDF}: 29197263.7/35$

All: 1038.238 ± 0.198 $\chi^2/\text{NDF}: 52539782.7/66$

eigen_cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 150.254+/-667.029 χ^2/NDF : 17.6/15

Left Out: 1183.911+/-523.808 χ^2/NDF :34.8/16

Right Out: 54.158+/-655.266 χ^2/NDF : 9.0/18

Left In: -108.273+/-535.887 χ^2/NDF :14.9/14

Left: 552.546+/-374.586 χ^2/NDF : 52.6/31

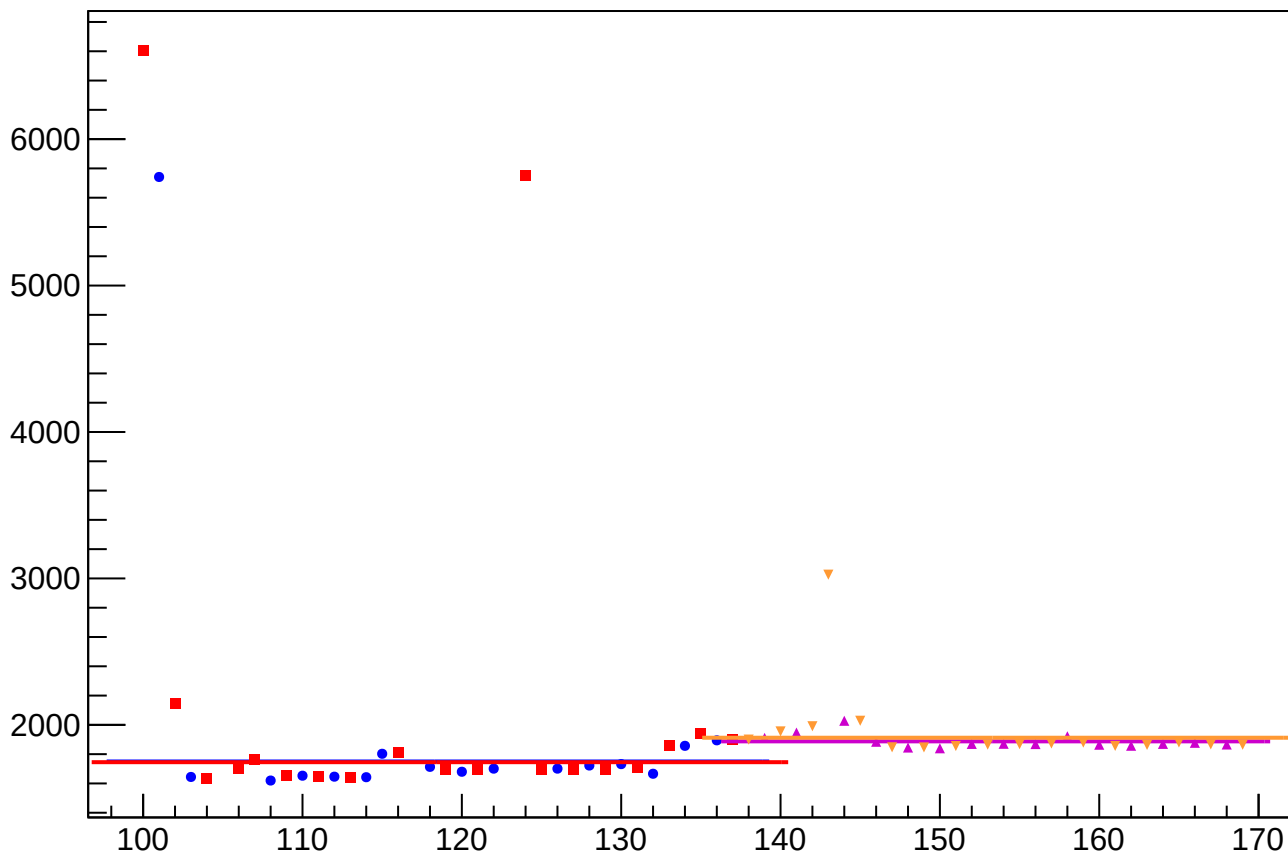
Right: 101.351+/-467.446 χ^2/NDF : 26.6/34

In: -6.863+/-417.765 χ^2/NDF :32.6/30

Out: 743.447+/-409.148 χ^2/NDF :45.6/35

All: 376.109+/-292.310 χ^2/NDF : 79.8/66

eigen_cor_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1749.864+/-0.472 χ^2/NDF : 669576.1/15

Left Out: 1912.151+/-0.370 χ^2/NDF : 242787.6/16

Right Out: 1745.188+/-0.462 χ^2/NDF : 297979.0/18

Left In: 1887.414+/-0.379 χ^2/NDF : 14703.3/14

Left: 1900.065+/-0.265 χ^2/NDF : 259670.3/31

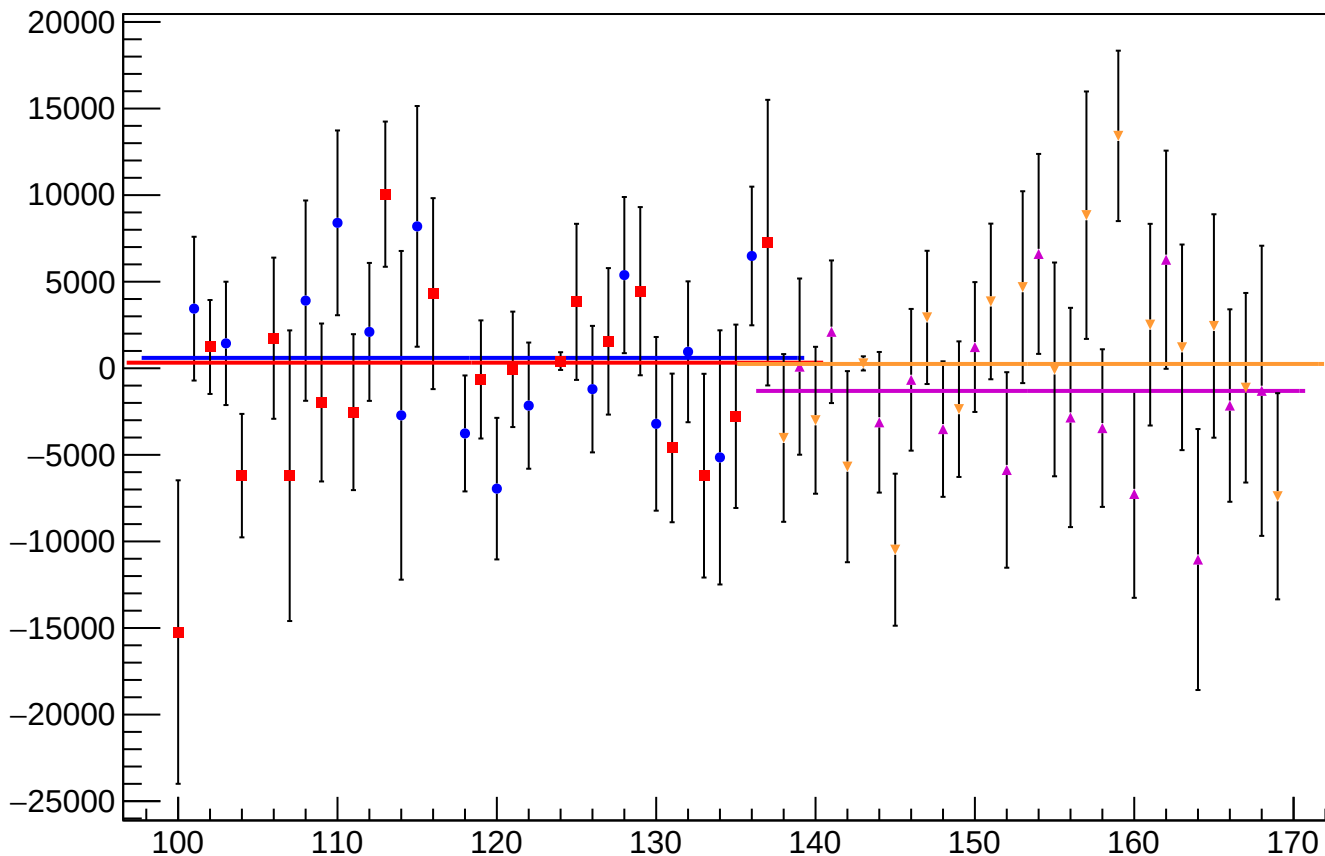
Right: 1747.476+/-0.330 χ^2/NDF : 967605.3/34

In: 1833.459+/-0.295 χ^2/NDF : 735966.3/30

Out: 1846.759+/-0.289 χ^2/NDF : 620352.3/35

All: 1840.257+/-0.207 χ^2/NDF : 1357354.8/66

asym_atr1l2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 600.202 $\pm$ 1100.125 χ^2 /NDF: 14.9/15

Left Out: 250.176 $\pm$ 389.177 χ^2 /NDF:21.3/16

Right Out: 323.164 $\pm$ 458.862 χ^2 /NDF: 19.0/18

Left In: -1307.958 $\pm$ 1284.454 χ^2 /NDF:8.7/14

Left: 119.162 $\pm$ 372.456 χ^2 /NDF: 31.4/31

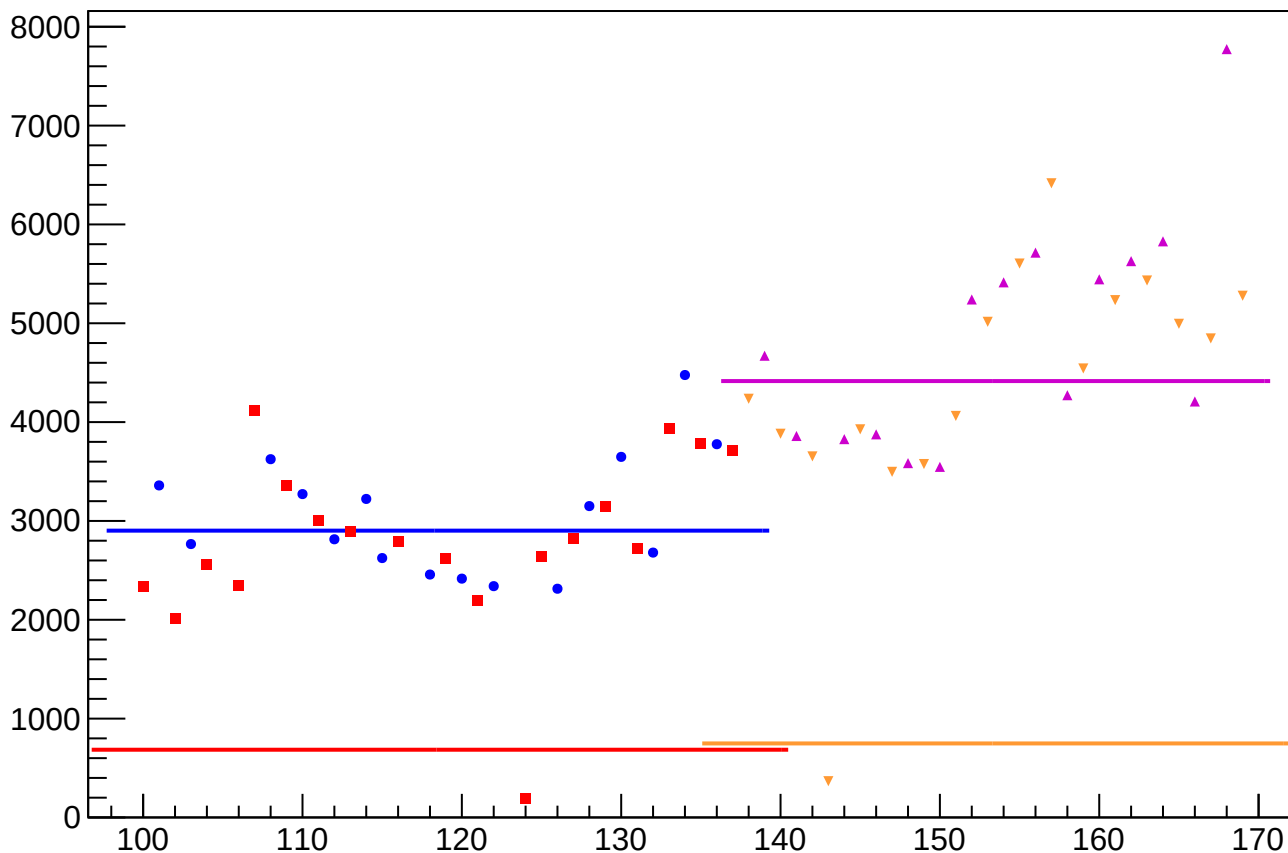
Right: 364.218 $\pm$ 423.500 χ^2 /NDF: 33.9/34

In: -207.253 $\pm$ 835.546 χ^2 /NDF:24.8/30

Out: 280.713 $\pm$ 296.802 χ^2 /NDF:40.4/35

All: 226.040 $\pm$ 279.681 χ^2 /NDF: 65.5/66

asym_atr1l2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2901.861+/-0.778 χ^2/NDF : 480934.2/15

Left Out: 748.914+/-0.275 χ^2/NDF :19069078.9/16

Right Out: 685.257+/-0.324 χ^2/NDF : 10105797.4/18

Left In: 4415.175+/-0.908 χ^2/NDF :1031618.1/14

Left: 1057.188+/-0.263 χ^2/NDF : 35025034.6/31

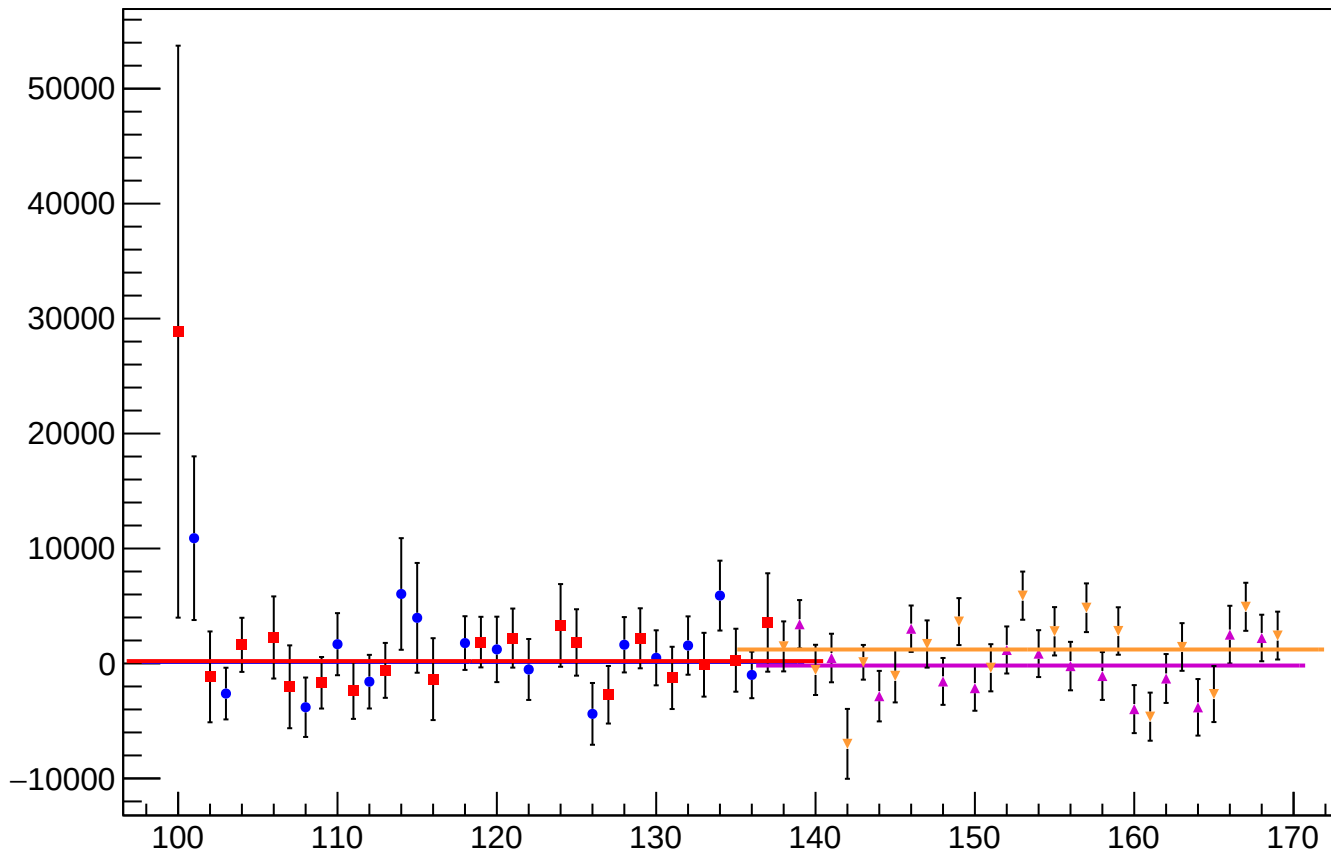
Right: 1013.738+/-0.299 χ^2/NDF : 17502877.4/34

In: 3542.233+/-0.591 χ^2/NDF :3113978.0/30

Out: 722.281+/-0.210 χ^2/NDF :29197263.7/35

All: 1038.238+/-0.198 χ^2/NDF : 52539782.7/66

dit_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 133.838 $\pm$ 671.621 χ^2 /NDF: 17.3/15

Left Out: 1215.834 $\pm$ 508.309 χ^2 /NDF:34.5/16

Right Out: 205.424 $\pm$ 654.444 χ^2 /NDF: 9.7/18

Left In: -179.691 $\pm$ 545.823 χ^2 /NDF:17.7/14

Left: 567.672 $\pm$ 371.984 χ^2 /NDF: 55.7/31

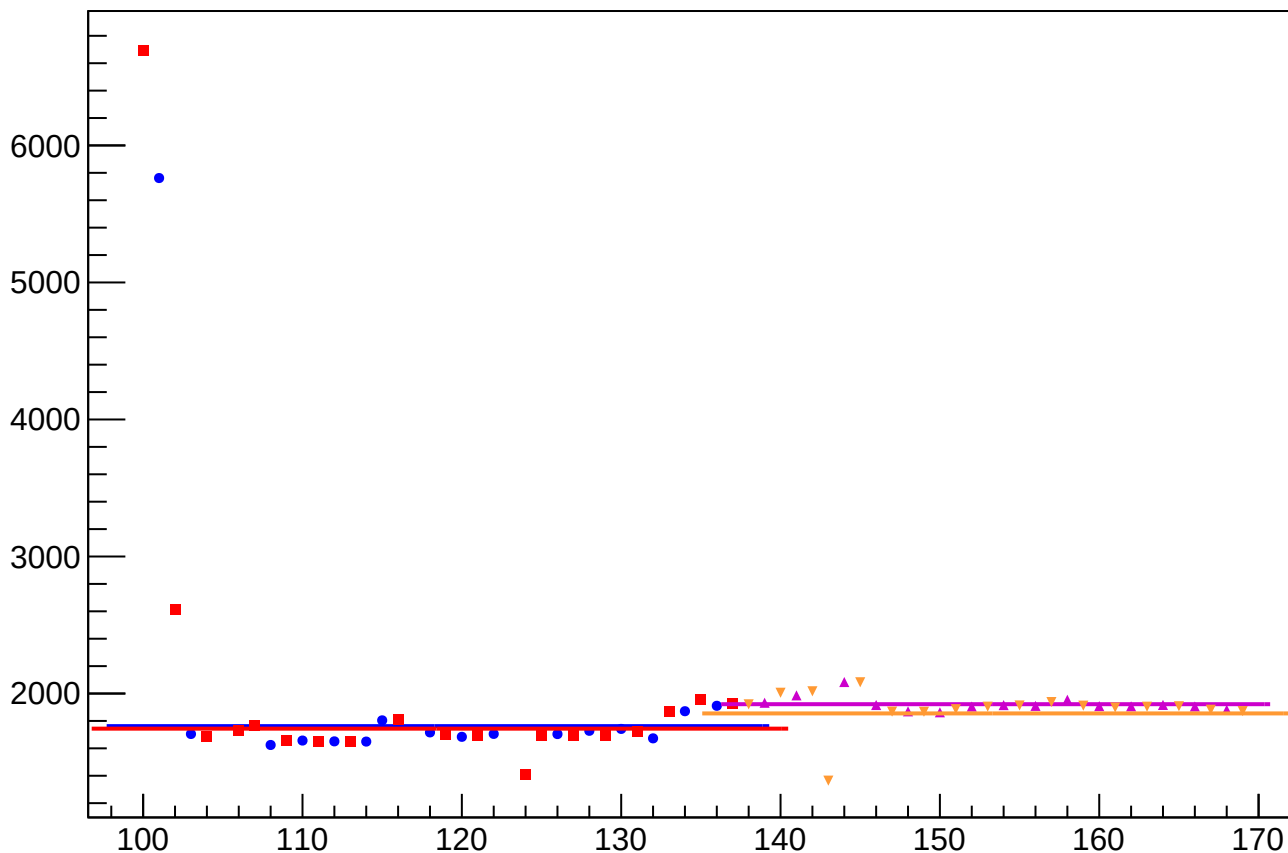
Right: 170.558 $\pm$ 468.717 χ^2 /NDF: 27.0/34

In: -54.981 $\pm$ 423.580 χ^2 /NDF:35.1/30

Out: 835.643 $\pm$ 401.444 χ^2 /NDF:45.7/35

All: 414.211 $\pm$ 291.375 χ^2 /NDF: 83.1/66

dit_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1762.052 $\pm$ 0.475 χ^2 /NDF: 667696.6/15

Left Out: 1854.883 $\pm$ 0.359 χ^2 /NDF: 258677.7/16

Right Out: 1743.723 $\pm$ 0.461 χ^2 /NDF: 227762.1/18

Left In: 1922.222 $\pm$ 0.386 χ^2 /NDF: 17724.9/14

Left: 1886.159 $\pm$ 0.263 χ^2 /NDF: 292704.9/31

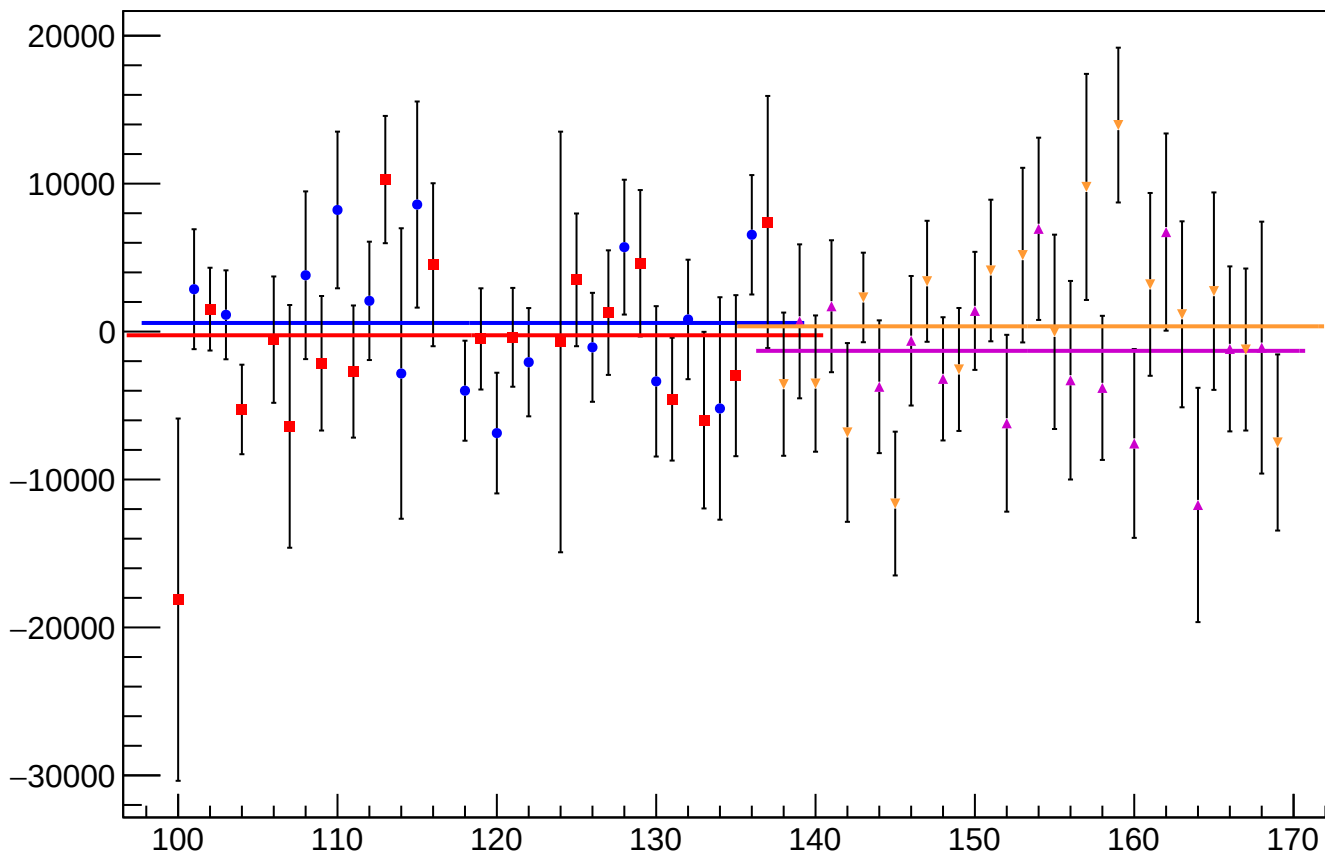
Right: 1752.624 $\pm$ 0.331 χ^2 /NDF: 896224.9/34

In: 1858.512 $\pm$ 0.300 χ^2 /NDF: 753925.0/30

Out: 1812.906 $\pm$ 0.284 χ^2 /NDF: 522558.9/35

All: 1834.462 $\pm$ 0.206 χ^2 /NDF: 1288710.6/66

asym_atr1l2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 582.223 $\pm$ 1081.481 χ^2 /NDF: 14.9/15

Left Out: 354.550 $\pm$ 1220.710 χ^2 /NDF:22.1/16

Right Out: -250.224 $\pm$ 1021.012 χ^2 /NDF: 17.9/18

Left In: -1302.786 $\pm$ 1364.481 χ^2 /NDF:8.5/14

Left: -382.232 $\pm$ 909.770 χ^2 /NDF: 31.4/31

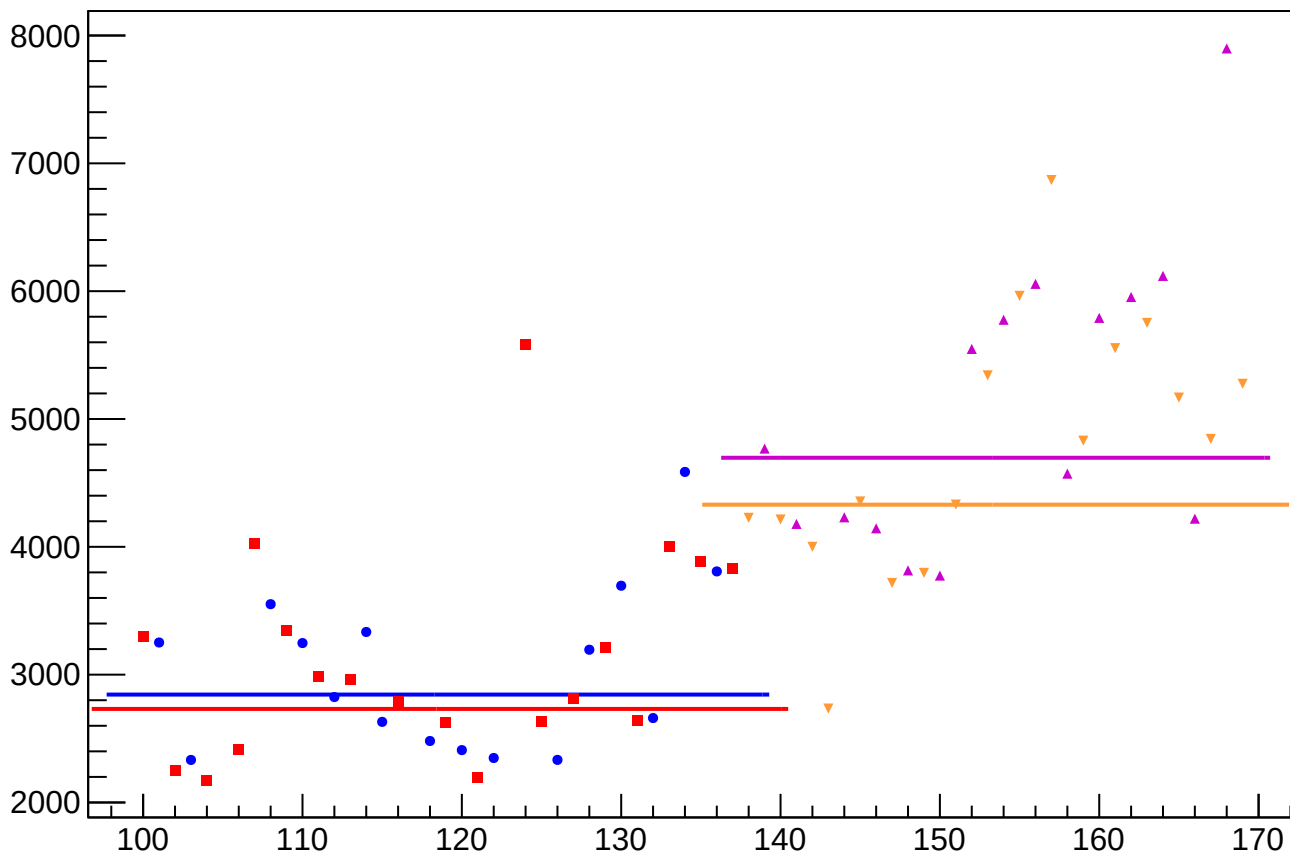
Right: 142.078 $\pm$ 742.422 χ^2 /NDF: 33.1/34

In: -145.065 $\pm$ 847.548 χ^2 /NDF:24.6/30

Out: -1.288 $\pm$ 783.178 χ^2 /NDF:40.1/35

All: -67.510 $\pm$ 575.202 χ^2 /NDF: 64.7/66

asym_atr1l2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2844.153+/-0.765 χ^2/NDF : 542032.5/15

Left Out: 4329.742+/-0.863 χ^2/NDF : 1343766.3/16

Right Out: 2731.978+/-0.722 χ^2/NDF : 611275.1/18

Left In: 4696.714+/-0.965 χ^2/NDF : 954399.5/14

Left: 4492.882+/-0.643 χ^2/NDF : 2378518.2/31

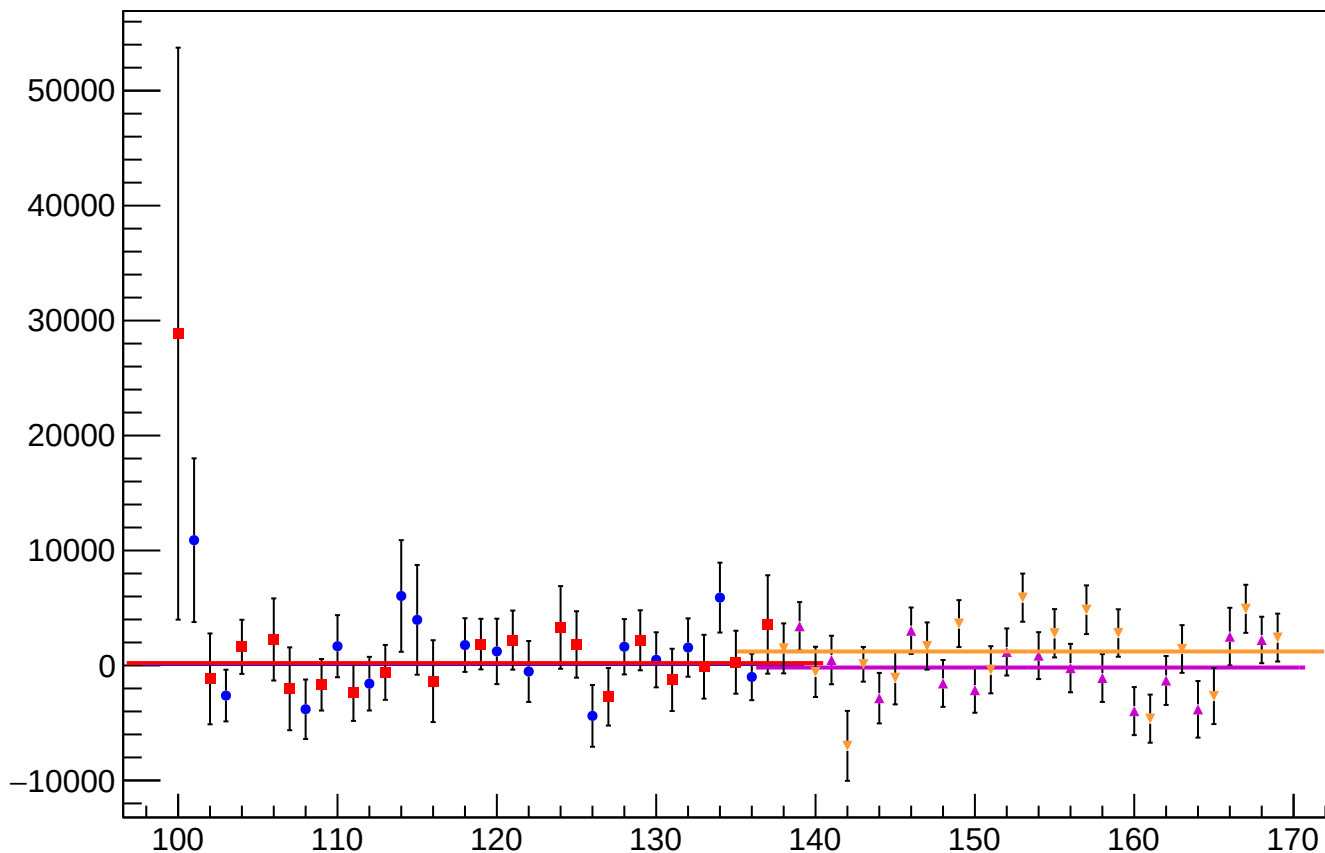
Right: 2784.841+/-0.525 χ^2/NDF : 1164684.5/34

In: 3558.922+/-0.599 χ^2/NDF : 3760714.5/30

Out: 3389.648+/-0.554 χ^2/NDF : 3971033.7/35

All: 3467.613+/-0.407 χ^2/NDF : 7774781.3/66

eigen_dit_asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: 133.837 $\pm$ 671.621 χ^2 /NDF: 17.3/15

Left Out: 1215.836 $\pm$ 508.309 χ^2 /NDF:34.5/16

Right Out: 205.422 $\pm$ 654.444 χ^2 /NDF: 9.7/18

Left In: -179.693 $\pm$ 545.823 χ^2 /NDF:17.7/14

Left: 567.673 $\pm$ 371.984 χ^2 /NDF: 55.7/31

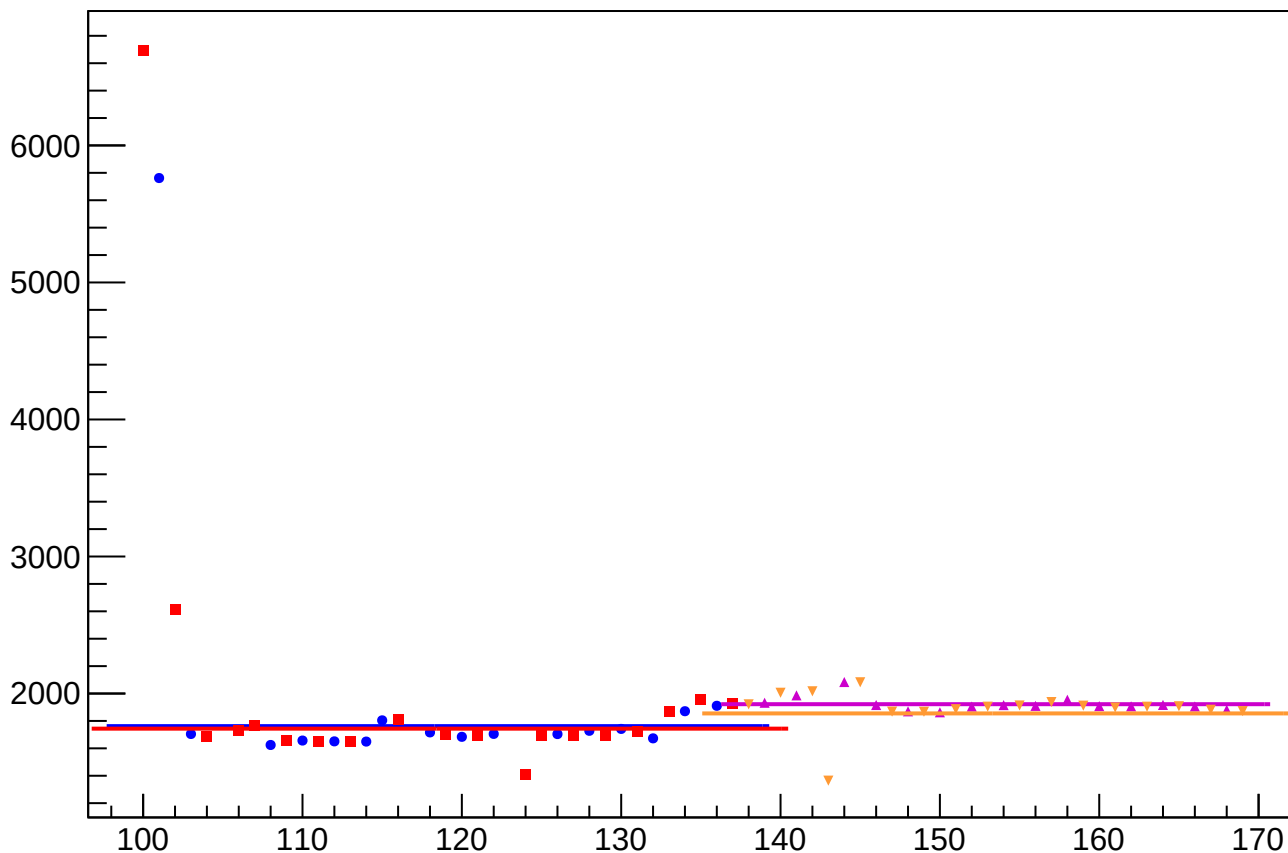
Right: 170.557 $\pm$ 468.717 χ^2 /NDF: 27.0/34

In: -54.983 $\pm$ 423.580 χ^2 /NDF:35.1/30

Out: 835.644 $\pm$ 401.444 χ^2 /NDF:45.7/35

All: 414.210 $\pm$ 291.375 χ^2 /NDF: 83.1/66

eigen_dit_asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 1762.052 $\pm$ 0.475 χ^2 /NDF: 667696.6/15

Left Out: 1854.884 $\pm$ 0.359 χ^2 /NDF: 258678.9/16

Right Out: 1743.723 $\pm$ 0.461 χ^2 /NDF: 227762.1/18

Left In: 1922.223 $\pm$ 0.386 χ^2 /NDF: 17725.1/14

Left: 1886.160 $\pm$ 0.263 χ^2 /NDF: 292706.4/31

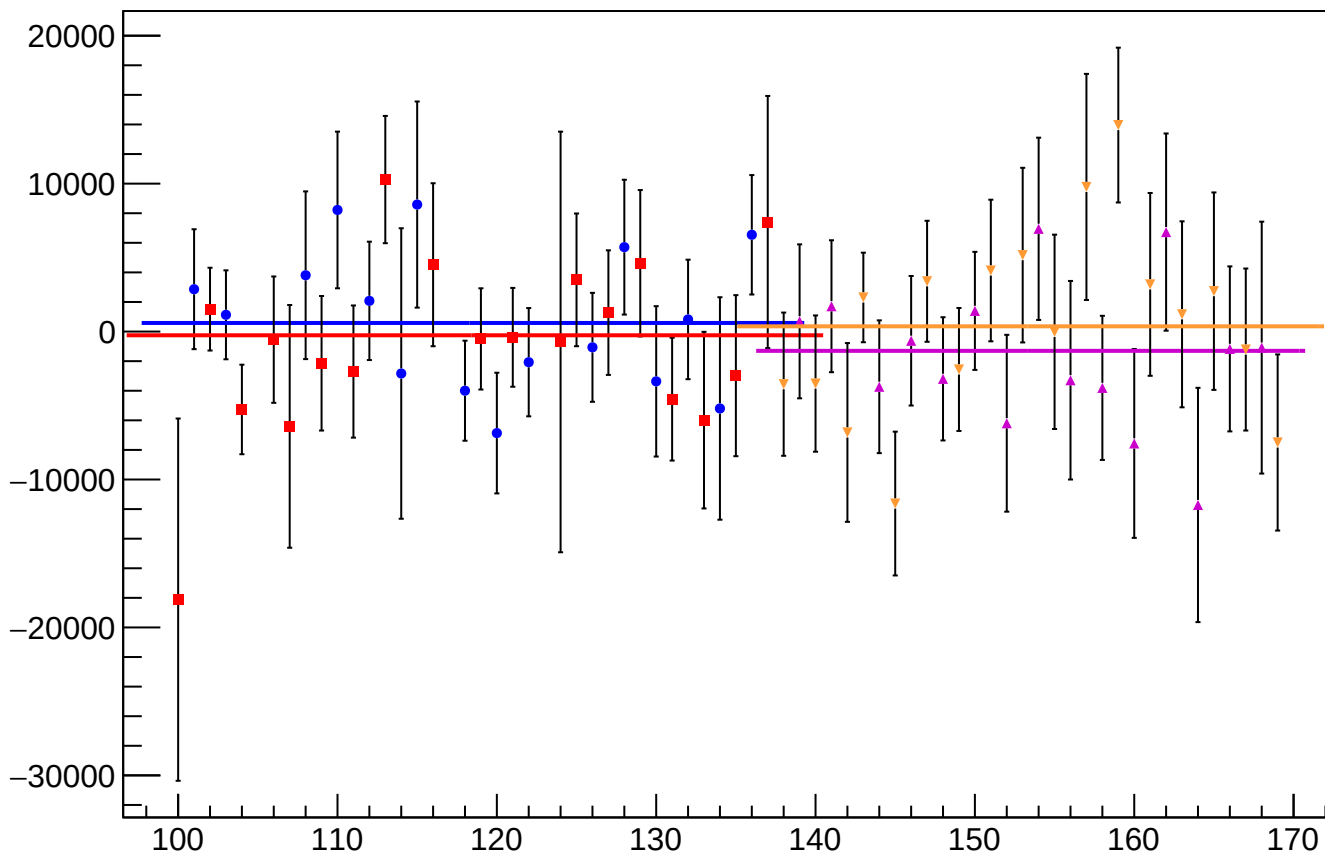
Right: 1752.624 $\pm$ 0.331 χ^2 /NDF: 896224.9/34

In: 1858.513 $\pm$ 0.300 χ^2 /NDF: 753926.0/30

Out: 1812.907 $\pm$ 0.284 χ^2 /NDF: 522560.7/35

All: 1834.462 $\pm$ 0.206 χ^2 /NDF: 1288713.5/66

asym_atr1l2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 582.219 ± 1081.478 $\chi^2/\text{NDF}: 14.9/15$

Left Out: 354.553 ± 1220.712 $\chi^2/\text{NDF}: 22.1/16$

Right Out: -250.225 ± 1021.010 $\chi^2/\text{NDF}: 17.9/18$

Left In: -1302.786 ± 1364.483 $\chi^2/\text{NDF}: 8.5/14$

Left: -382.231 ± 909.772 $\chi^2/\text{NDF}: 31.4/31$

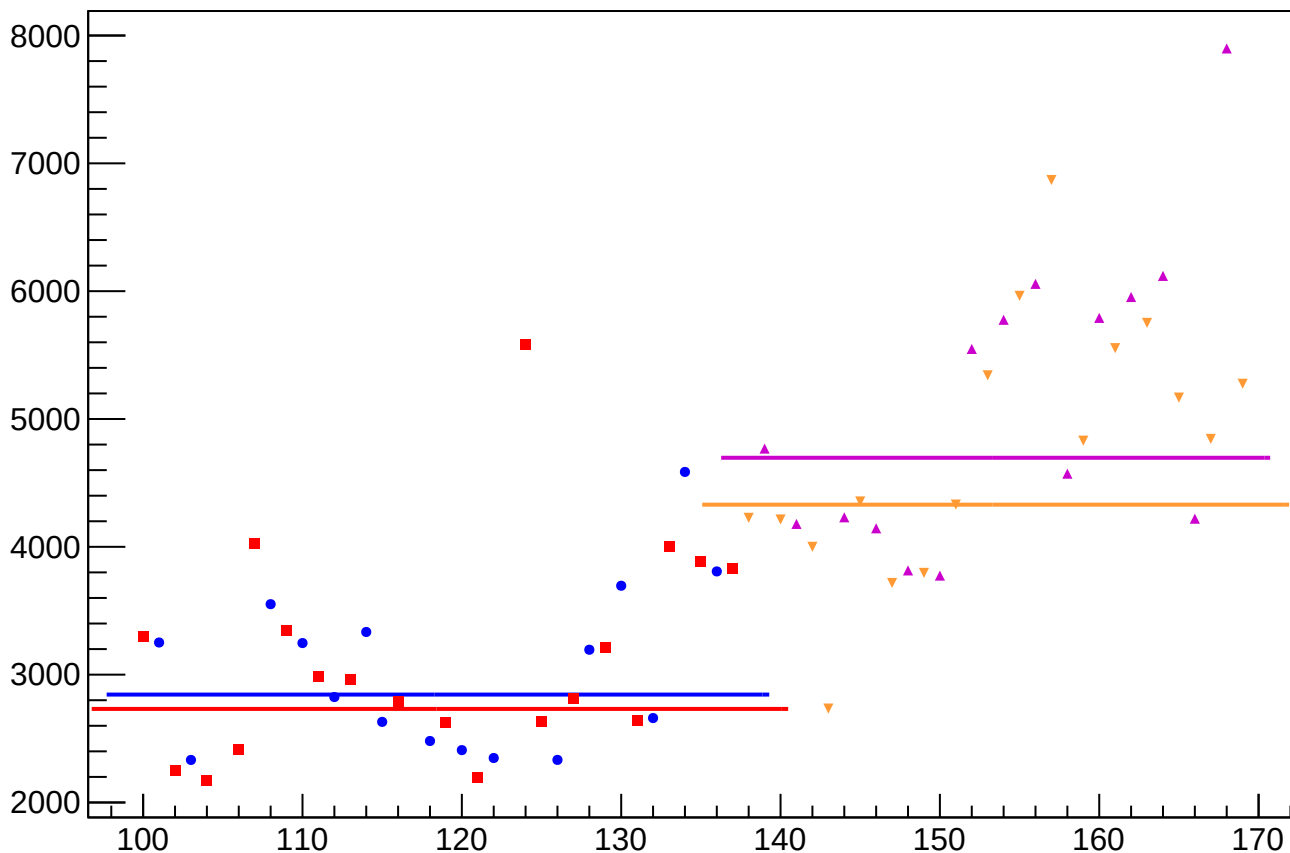
Right: 142.075 ± 742.420 $\chi^2/\text{NDF}: 33.1/34$

In: -145.065 ± 847.547 $\chi^2/\text{NDF}: 24.6/30$

Out: -1.288 ± 783.177 $\chi^2/\text{NDF}: 40.1/35$

All: -67.510 ± 575.202 $\chi^2/\text{NDF}: 64.7/66$

asym_atr1l2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2844.145+/-0.765 χ^2/NDF : 542036.2/15

Left Out: 4329.747+/-0.863 χ^2/NDF : 1343772.0/16

Right Out: 2731.972+/-0.722 χ^2/NDF : 611272.5/18

Left In: 4696.720+/-0.965 χ^2/NDF : 954402.0/14

Left: 4492.888+/-0.643 χ^2/NDF : 2378526.9/31

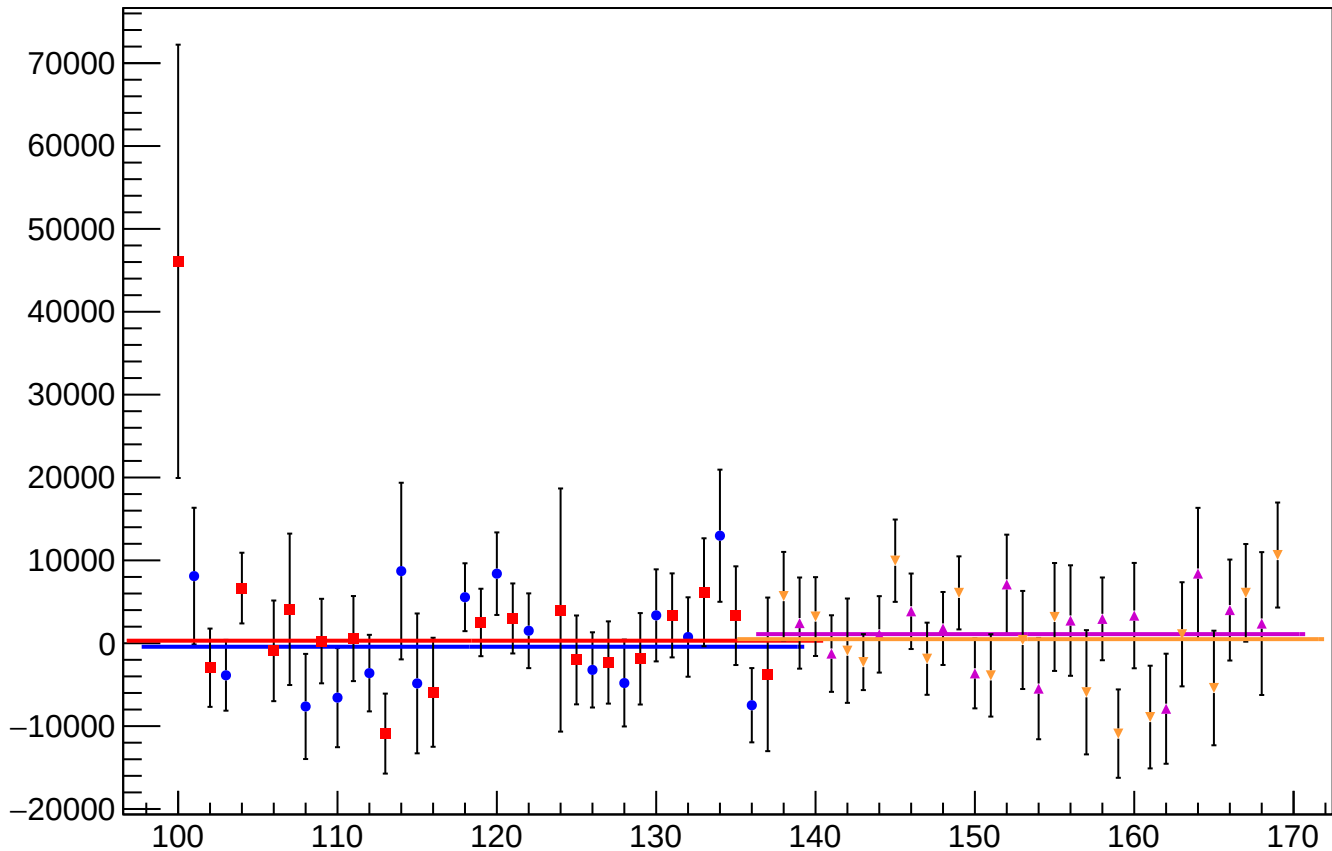
Right: 2784.835+/-0.525 χ^2/NDF : 1164685.2/34

In: 3558.916+/-0.599 χ^2/NDF : 3760755.8/30

Out: 3389.644+/-0.554 χ^2/NDF : 3971063.9/35

All: 3467.609+/-0.407 χ^2/NDF : 7774851.9/66

asym_atr1l2_dd_mean vs Slug, Sign Corrected



Right In: -423.131 ± 1327.258 χ^2/NDF : 17.9/15

Left Out: 494.674 ± 1281.714 χ^2/NDF : 20.3/16

Right Out: 307.823 ± 1275.718 χ^2/NDF : 15.3/18

Left In: 1100.847 ± 1409.269 χ^2/NDF : 7.4/14

Left: 769.092 ± 948.204 χ^2/NDF : 27.8/31

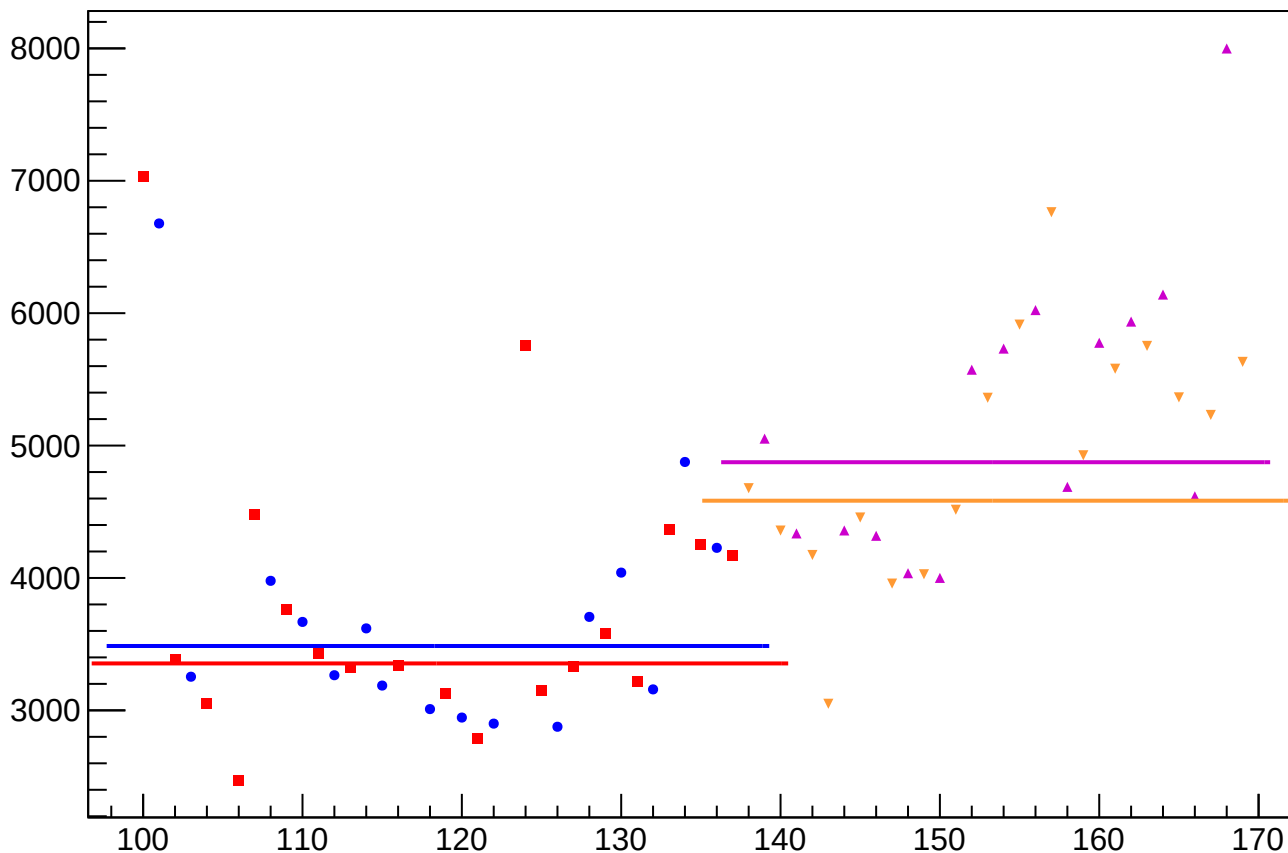
Right: -43.186 ± 919.750 χ^2/NDF : 33.3/34

In: 293.227 ± 966.206 χ^2/NDF : 25.9/30

Out: 400.811 ± 904.181 χ^2/NDF : 35.6/35

All: 350.583 ± 660.192 χ^2/NDF : 61.5/66

asym_atr1l2_dd_rms vs Slug, Sign Corrected



Right In: 3486.167+/-0.939 χ^2/NDF : 595790.9/15

Left Out: 4583.568+/-0.906 χ^2/NDF : 1022106.1/16

Right Out: 3354.426+/-0.889 χ^2/NDF : 376426.3/18

Left In: 4874.293+/-0.997 χ^2/NDF : 779569.0/14

Left: 4715.181+/-0.670 χ^2/NDF : 1848258.2/31

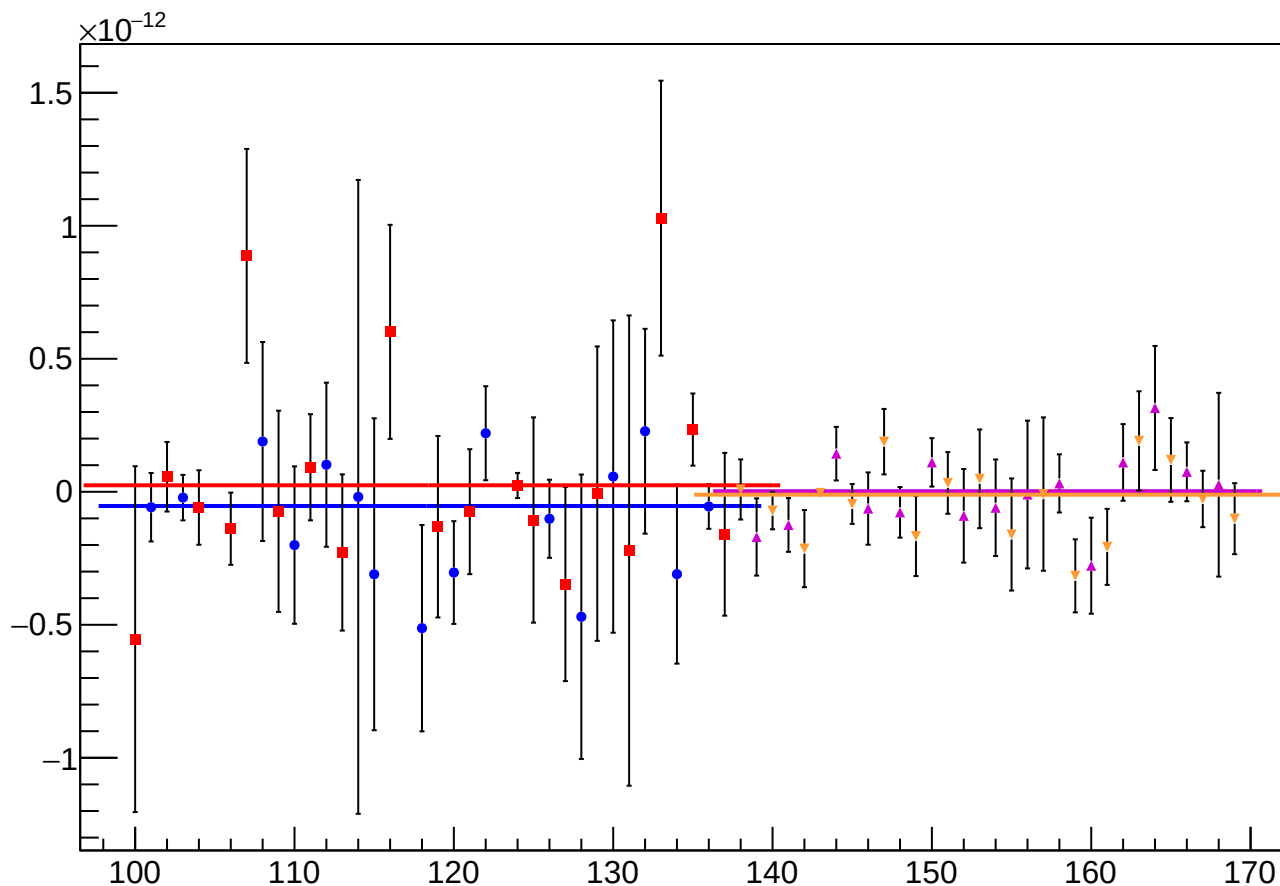
Right: 3416.767+/-0.646 χ^2/NDF : 982597.4/34

In: 4138.665+/-0.683 χ^2/NDF : 2403682.3/30

Out: 3957.489+/-0.635 χ^2/NDF : 2335401.0/35

All: 4041.436+/-0.465 χ^2/NDF : 4776822.5/66

asym_atr1l2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 8.6/15

Left Out: -0.000+/-0.000 χ^2 /NDF:16.8/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 18.4/18

Left In: 0.000+/-0.000 χ^2 /NDF:13.0/14

Left: -0.000+/-0.000 χ^2 /NDF: 29.9/31

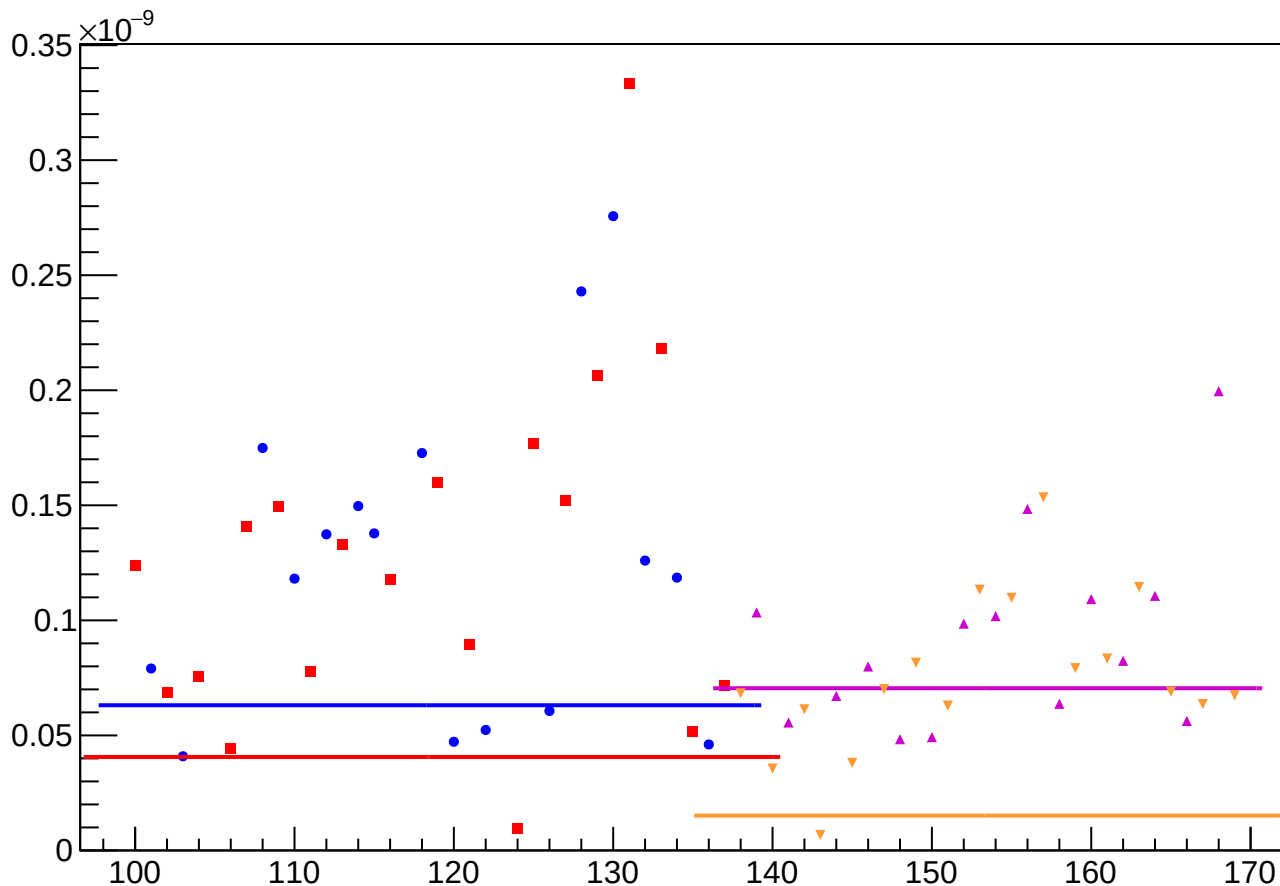
Right: -0.000+/-0.000 χ^2 /NDF: 28.8/34

In: -0.000+/-0.000 χ^2 /NDF:22.6/30

Out: -0.000+/-0.000 χ^2 /NDF:36.1/35

All: -0.000+/-0.000 χ^2 /NDF: 58.7/66

asym_atr1l2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1432018.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 6820638.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3172346.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 1129062.8/14

Left: 0.000+/-0.000 χ^2/NDF : 12726180.4/31

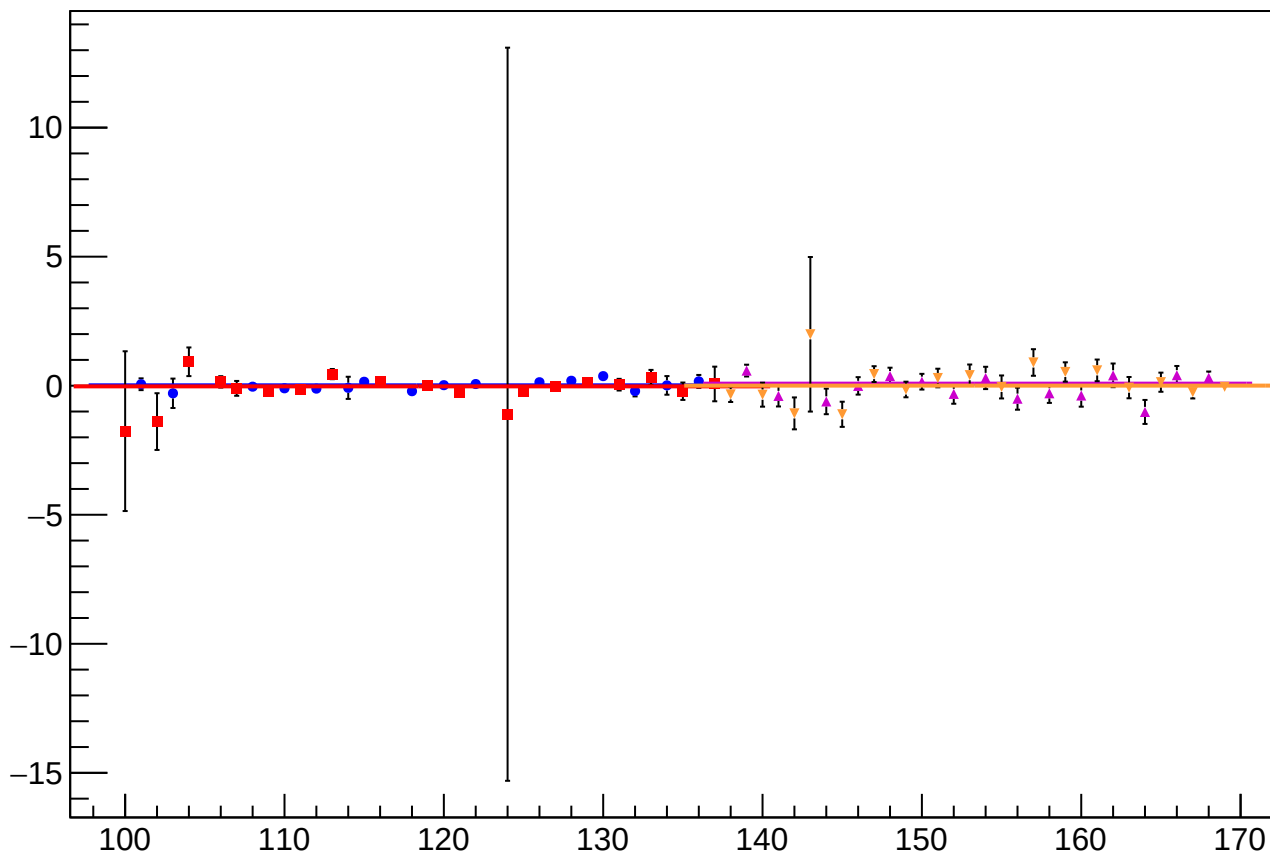
Right: 0.000+/-0.000 χ^2/NDF : 4914964.6/34

In: 0.000+/-0.000 χ^2/NDF : 2596094.0/30

Out: 0.000+/-0.000 χ^2/NDF : 10908953.8/35

All: 0.000+/-0.000 χ^2/NDF : 19405331.4/66

asym_atr1l2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.048 χ^2/NDF : 11.8/15

Left Out: 0.004 ± 0.084 χ^2/NDF : 22.9/16

Right Out: -0.026 ± 0.047 χ^2/NDF : 22.1/18

Left In: 0.080 ± 0.090 χ^2/NDF : 22.2/14

Left: 0.039 ± 0.062 χ^2/NDF : 45.5/31

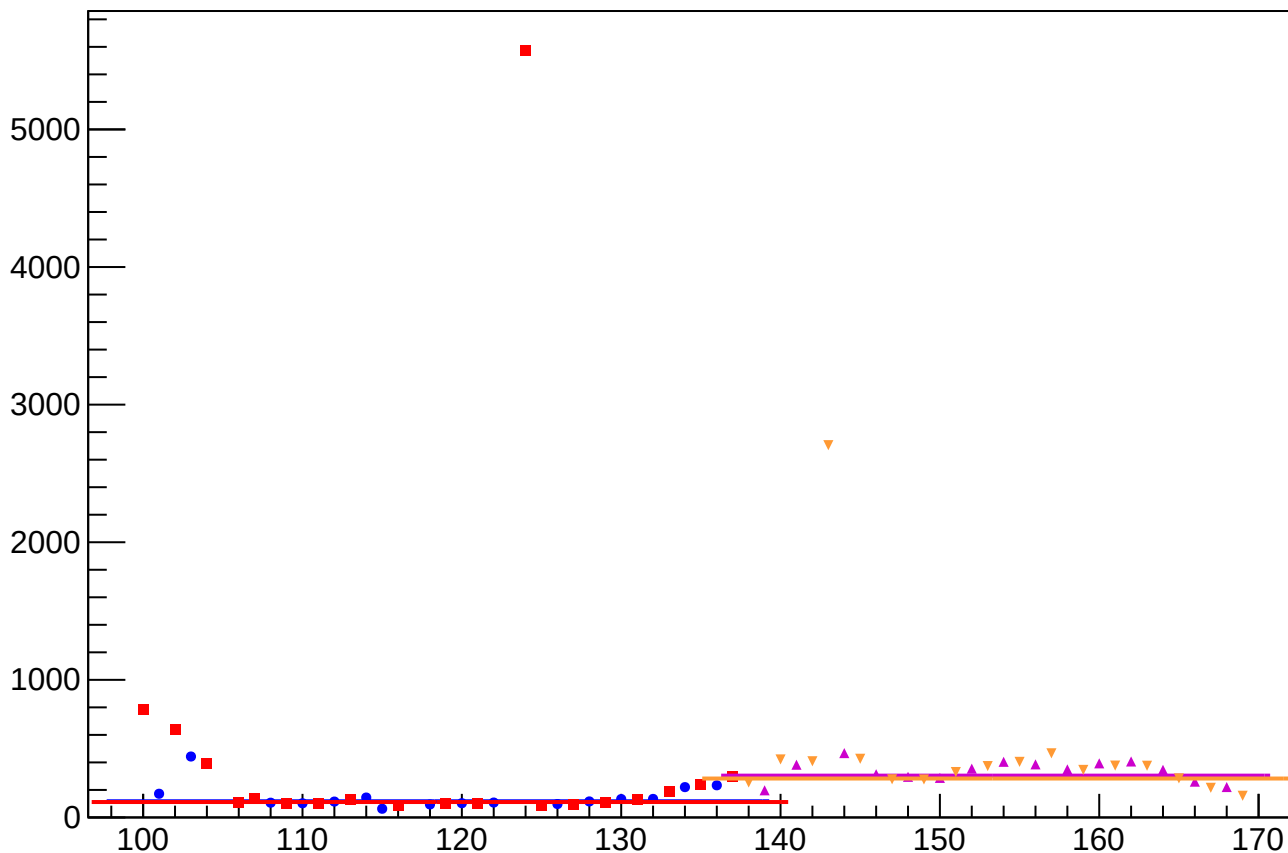
Right: -0.006 ± 0.033 χ^2/NDF : 34.3/34

In: 0.030 ± 0.042 χ^2/NDF : 34.4/30

Out: -0.019 ± 0.041 χ^2/NDF : 45.1/35

All: 0.005 ± 0.029 χ^2/NDF : 80.1/66

asym_atr1l2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649 $\pm$ 0.034 χ^2 /NDF: 1722401.0/15

Left Out: 282.897 $\pm$ 0.059 χ^2 /NDF: 3701271.9/16

Right Out: 112.124 $\pm$ 0.033 χ^2 /NDF: 2186364.8/18

Left In: 303.885 $\pm$ 0.064 χ^2 /NDF: 1451548.0/14

Left: 292.644 $\pm$ 0.043 χ^2 /NDF: 5210731.7/31

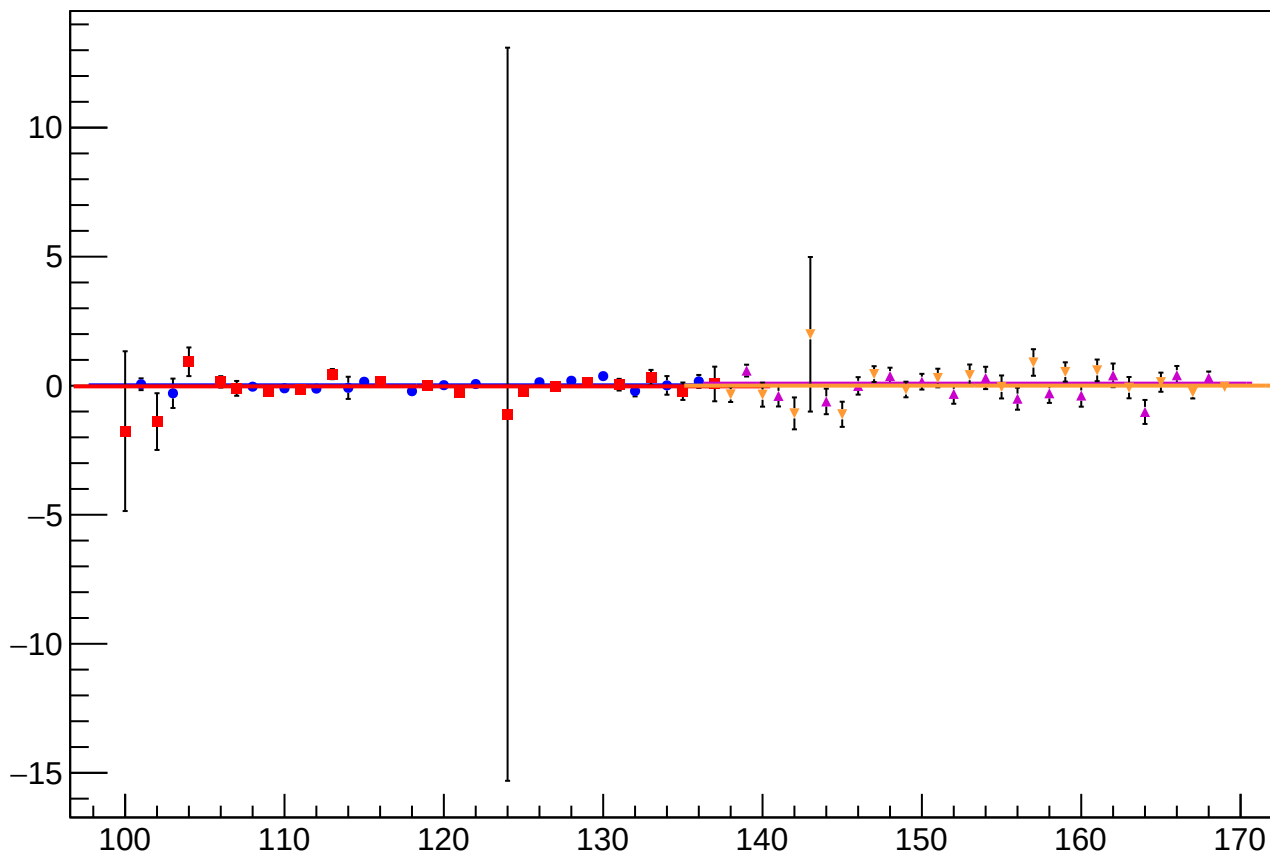
Right: 114.826 $\pm$ 0.024 χ^2 /NDF: 3922369.6/34

In: 158.560 $\pm$ 0.030 χ^2 /NDF: 9817241.6/30

Out: 152.593 $\pm$ 0.029 χ^2 /NDF: 12186920.0/35

All: 155.477 $\pm$ 0.021 χ^2 /NDF: 22024721.4/66

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.048 χ^2 /NDF: 11.8/15

Left Out: 0.004 $\pm$ 0.084 χ^2 /NDF:22.9/16

Right Out: -0.026 $\pm$ 0.047 χ^2 /NDF: 22.1/18

Left In: 0.080 $\pm$ 0.090 χ^2 /NDF:22.2/14

Left: 0.039 $\pm$ 0.062 χ^2 /NDF: 45.5/31

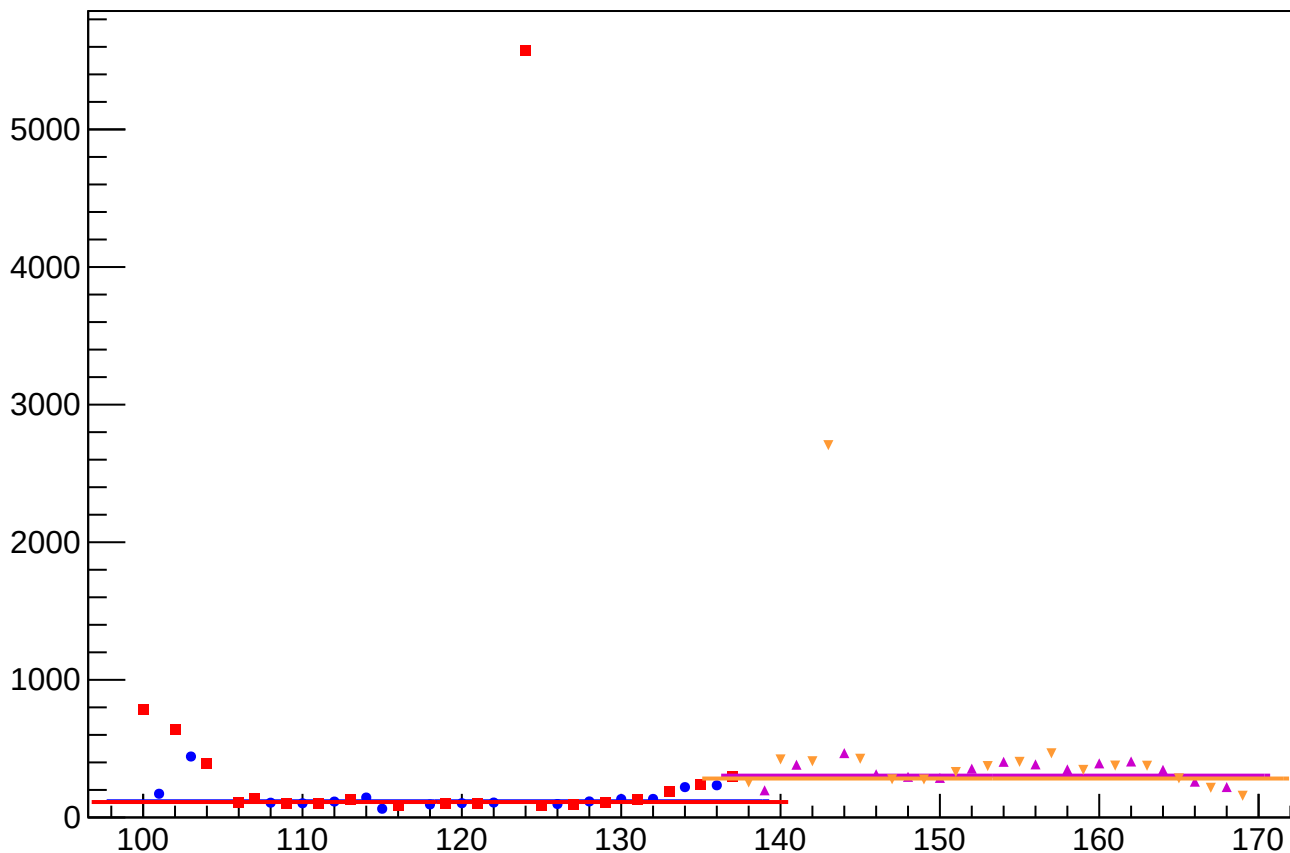
Right: -0.006 $\pm$ 0.033 χ^2 /NDF: 34.3/34

In: 0.030 $\pm$ 0.042 χ^2 /NDF:34.4/30

Out: -0.019 $\pm$ 0.041 χ^2 /NDF:45.1/35

All: 0.005 $\pm$ 0.029 χ^2 /NDF: 80.1/66

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649 $\pm$ 0.034 χ^2 /NDF: 1722401.0/15

Left Out: 282.897 $\pm$ 0.059 χ^2 /NDF: 3701271.9/16

Right Out: 112.124 $\pm$ 0.033 χ^2 /NDF: 2186364.8/18

Left In: 303.885 $\pm$ 0.064 χ^2 /NDF: 1451548.0/14

Left: 292.644 $\pm$ 0.043 χ^2 /NDF: 5210731.7/31

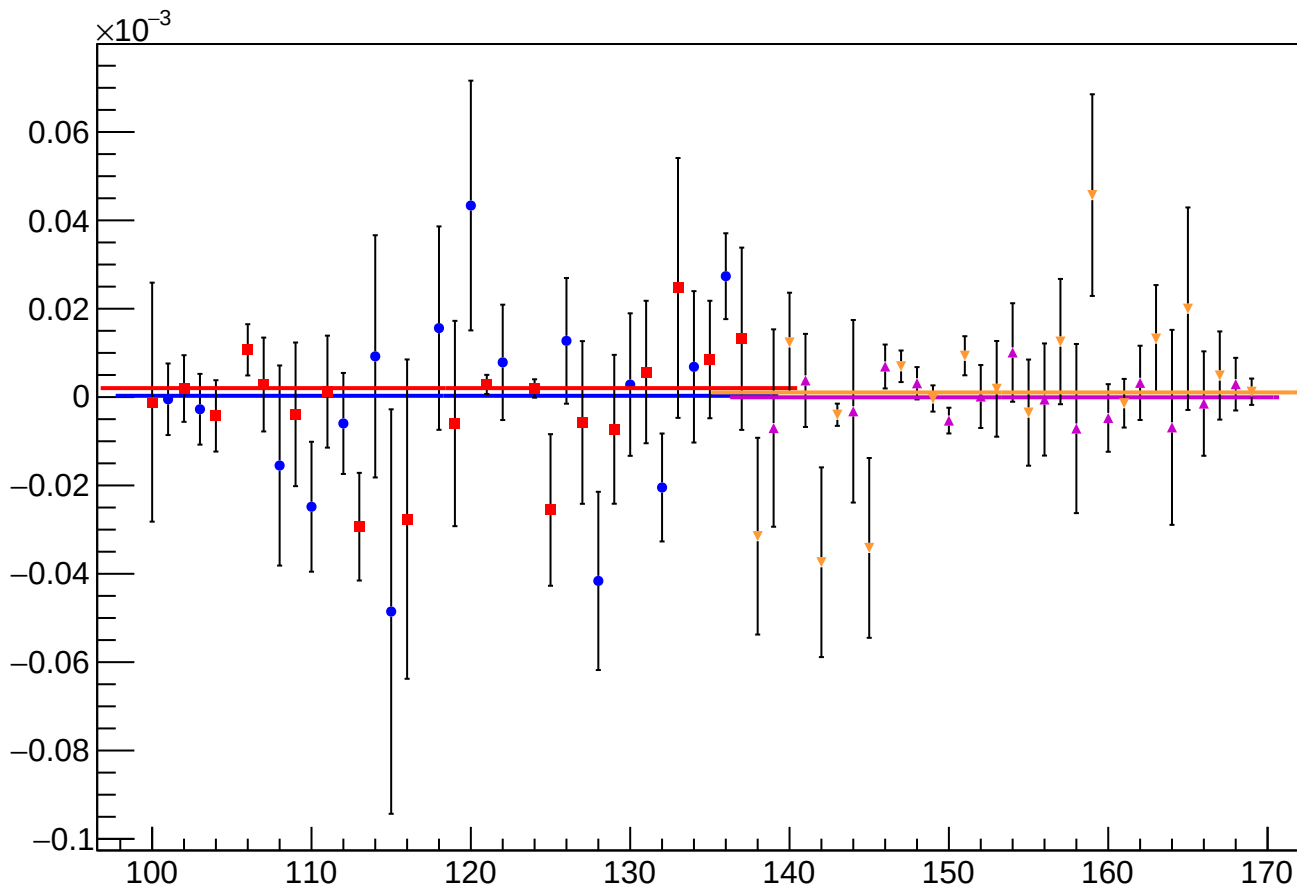
Right: 114.826 $\pm$ 0.024 χ^2 /NDF: 3922369.6/34

In: 158.560 $\pm$ 0.030 χ^2 /NDF: 9817241.6/30

Out: 152.593 $\pm$ 0.029 χ^2 /NDF: 12186920.0/35

All: 155.477 $\pm$ 0.021 χ^2 /NDF: 22024721.4/66

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 24.1/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:26.5/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.8/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:8.1/14

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 34.9/31

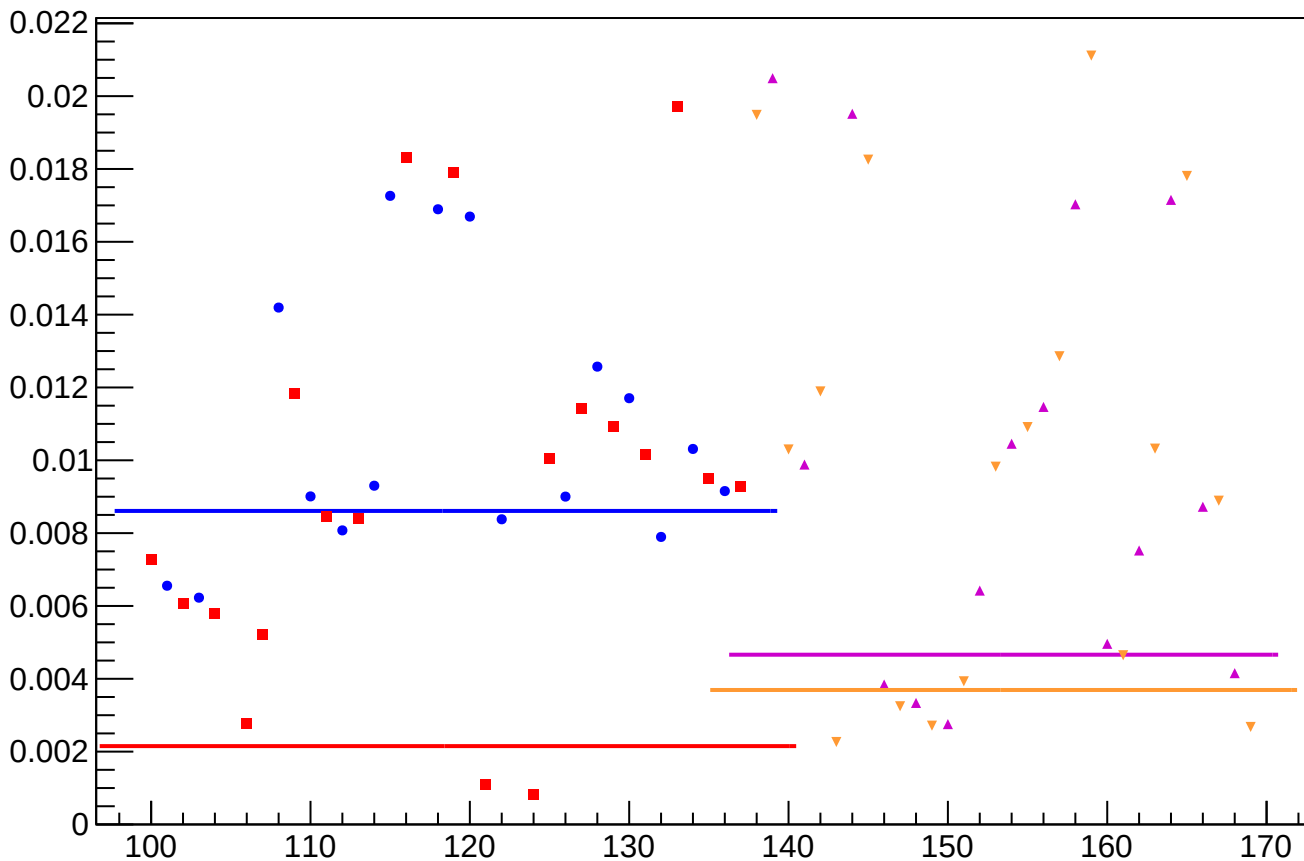
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 39.1/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:32.2/30

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:41.6/35

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 74.5/66

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1114251.2/15

Left Out: 0.004+/-0.000 χ^2/NDF : 9464028.7/16

Right Out: 0.002+/-0.000 χ^2/NDF : 9086978.1/18

Left In: 0.005+/-0.000 χ^2/NDF : 6901940.2/14

Left: 0.004+/-0.000 χ^2/NDF : 16782737.9/31

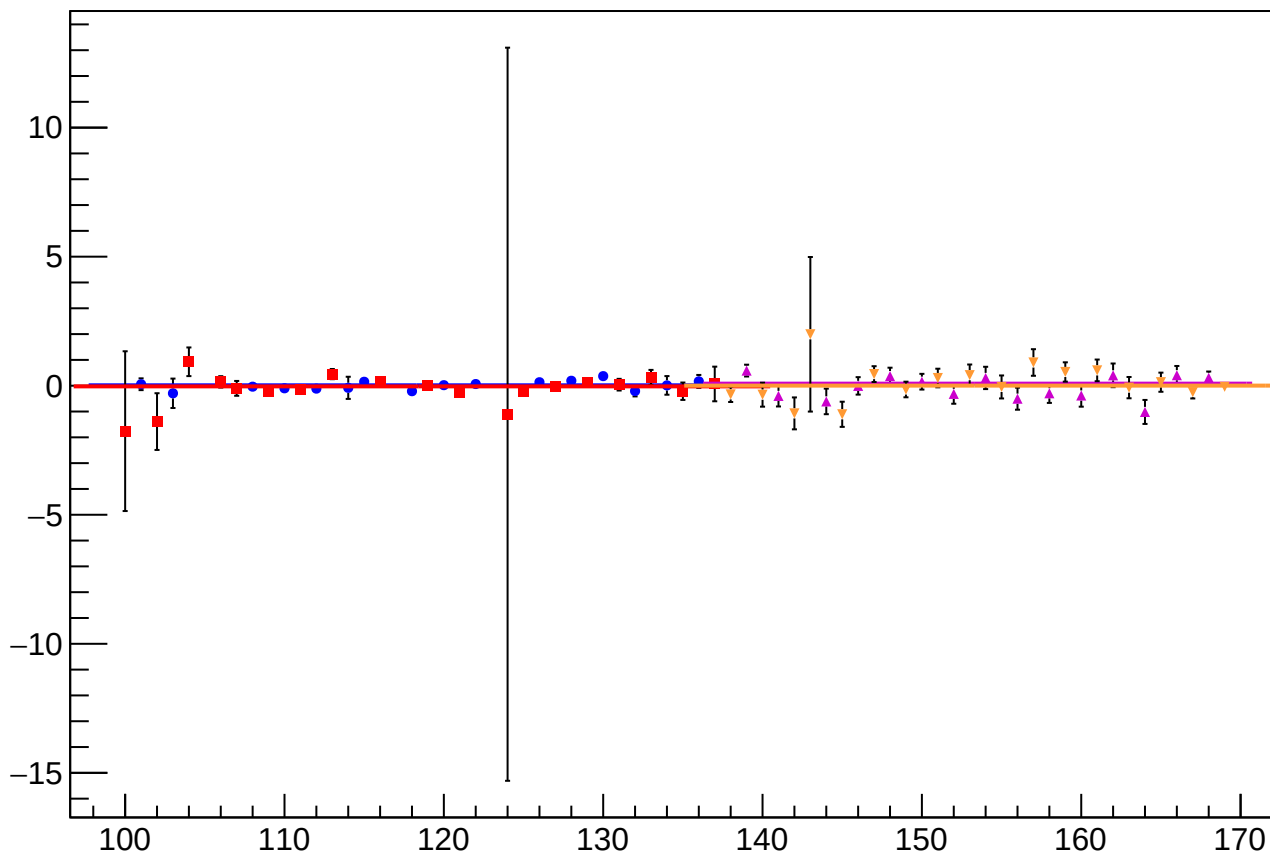
Right: 0.003+/-0.000 χ^2/NDF : 16533209.6/34

In: 0.005+/-0.000 χ^2/NDF : 10207526.1/30

Out: 0.003+/-0.000 χ^2/NDF : 19928504.7/35

All: 0.004+/-0.000 χ^2/NDF : 34121816.1/66

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.048 χ^2/NDF : 11.8/15

Left Out: 0.004 ± 0.084 χ^2/NDF : 22.9/16

Right Out: -0.026 ± 0.047 χ^2/NDF : 22.1/18

Left In: 0.080 ± 0.090 χ^2/NDF : 22.2/14

Left: 0.039 ± 0.062 χ^2/NDF : 45.5/31

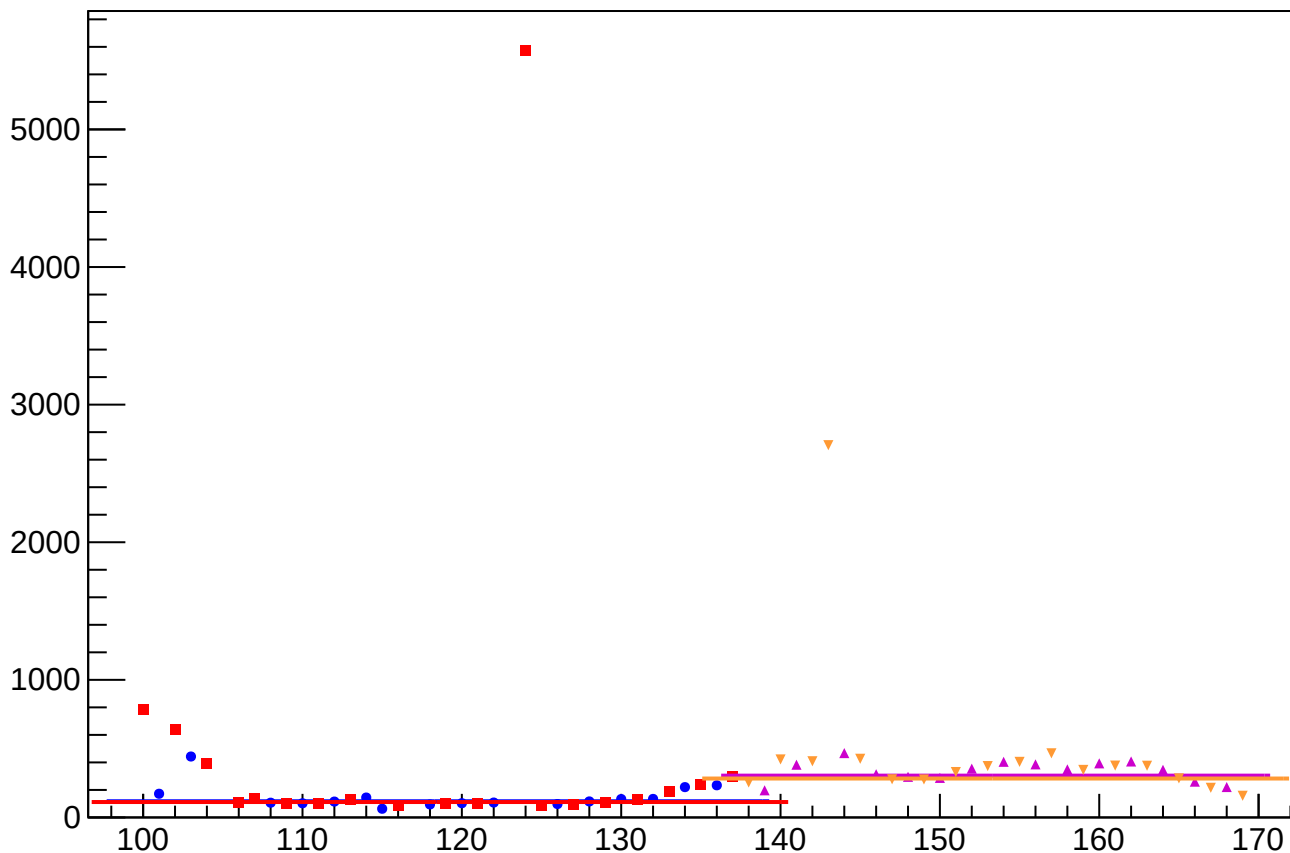
Right: -0.006 ± 0.033 χ^2/NDF : 34.3/34

In: 0.030 ± 0.042 χ^2/NDF : 34.4/30

Out: -0.019 ± 0.041 χ^2/NDF : 45.1/35

All: 0.005 ± 0.029 χ^2/NDF : 80.1/66

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649 $\pm$ 0.034 χ^2 /NDF: 1722367.8/15

Left Out: 282.899 $\pm$ 0.059 χ^2 /NDF: 3701367.2/16

Right Out: 112.126 $\pm$ 0.033 χ^2 /NDF: 2186296.2/18

Left In: 303.889 $\pm$ 0.064 χ^2 /NDF: 1451550.6/14

Left: 292.647 $\pm$ 0.043 χ^2 /NDF: 5210839.9/31

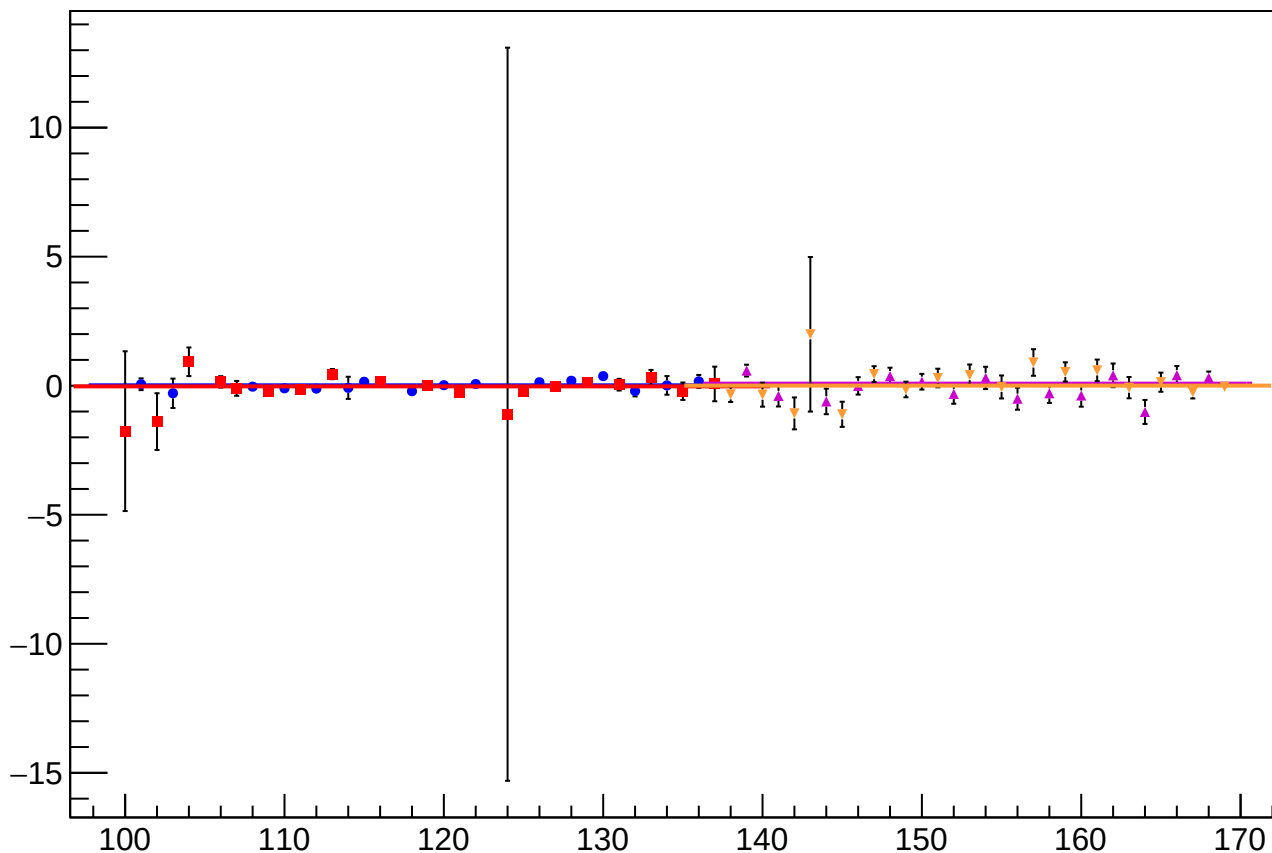
Right: 114.826 $\pm$ 0.024 χ^2 /NDF: 3922259.7/34

In: 158.561 $\pm$ 0.030 χ^2 /NDF: 9817368.4/30

Out: 152.595 $\pm$ 0.029 χ^2 /NDF: 12186863.3/35

All: 155.478 $\pm$ 0.021 χ^2 /NDF: 22024778.8/66

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.048 χ^2 /NDF: 11.8/15

Left Out: 0.004 $\pm$ 0.084 χ^2 /NDF:22.9/16

Right Out: -0.026 $\pm$ 0.047 χ^2 /NDF: 22.1/18

Left In: 0.080 $\pm$ 0.090 χ^2 /NDF:22.2/14

Left: 0.039 $\pm$ 0.062 χ^2 /NDF: 45.5/31

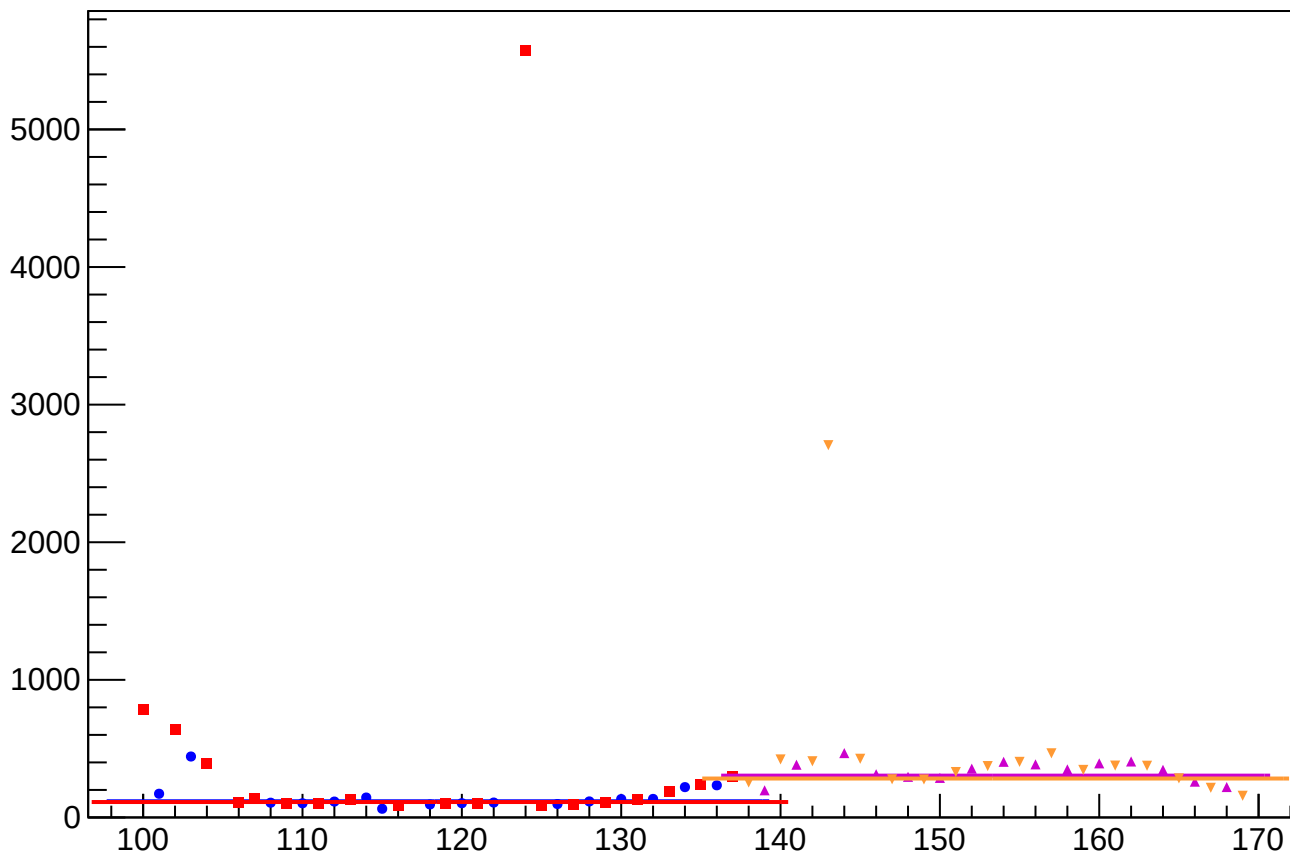
Right: -0.006 $\pm$ 0.033 χ^2 /NDF: 34.3/34

In: 0.030 $\pm$ 0.042 χ^2 /NDF:34.4/30

Out: -0.019 $\pm$ 0.041 χ^2 /NDF:45.1/35

All: 0.005 $\pm$ 0.029 χ^2 /NDF: 80.1/66

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 117.649+/-0.034 χ^2/NDF : 1722367.8/15

Left Out: 282.899+/-0.059 χ^2/NDF : 3701367.2/16

Right Out: 112.126+/-0.033 χ^2/NDF : 2186296.2/18

Left In: 303.889+/-0.064 χ^2/NDF : 1451550.6/14

Left: 292.647+/-0.043 χ^2/NDF : 5210839.9/31

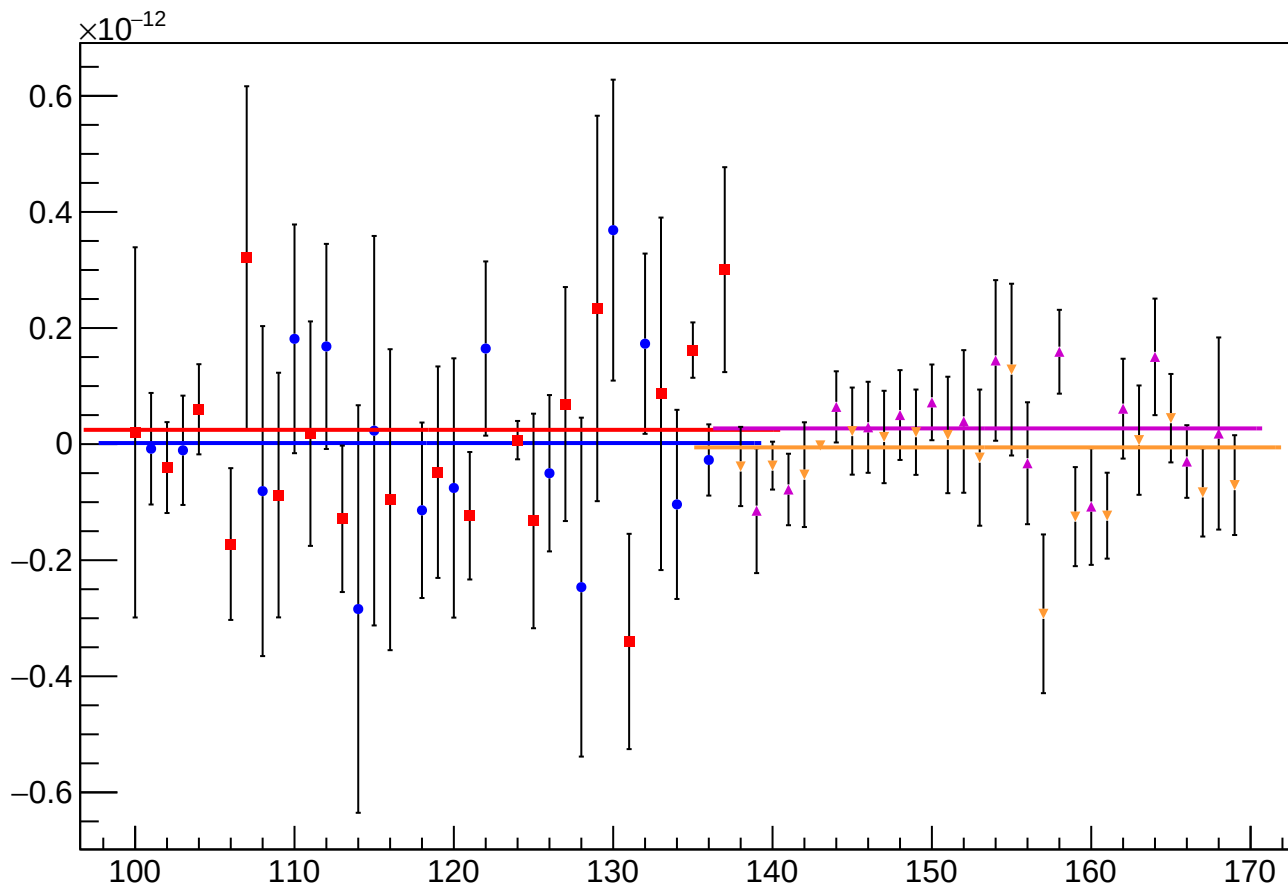
Right: 114.826+/-0.024 χ^2/NDF : 3922259.7/34

In: 158.561+/-0.030 χ^2/NDF : 9817368.4/30

Out: 152.595+/-0.029 χ^2/NDF : 12186863.3/35

All: 155.478+/-0.021 χ^2/NDF : 22024778.8/66

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 9.1/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:13.5/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 24.2/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:14.3/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 29.9/31

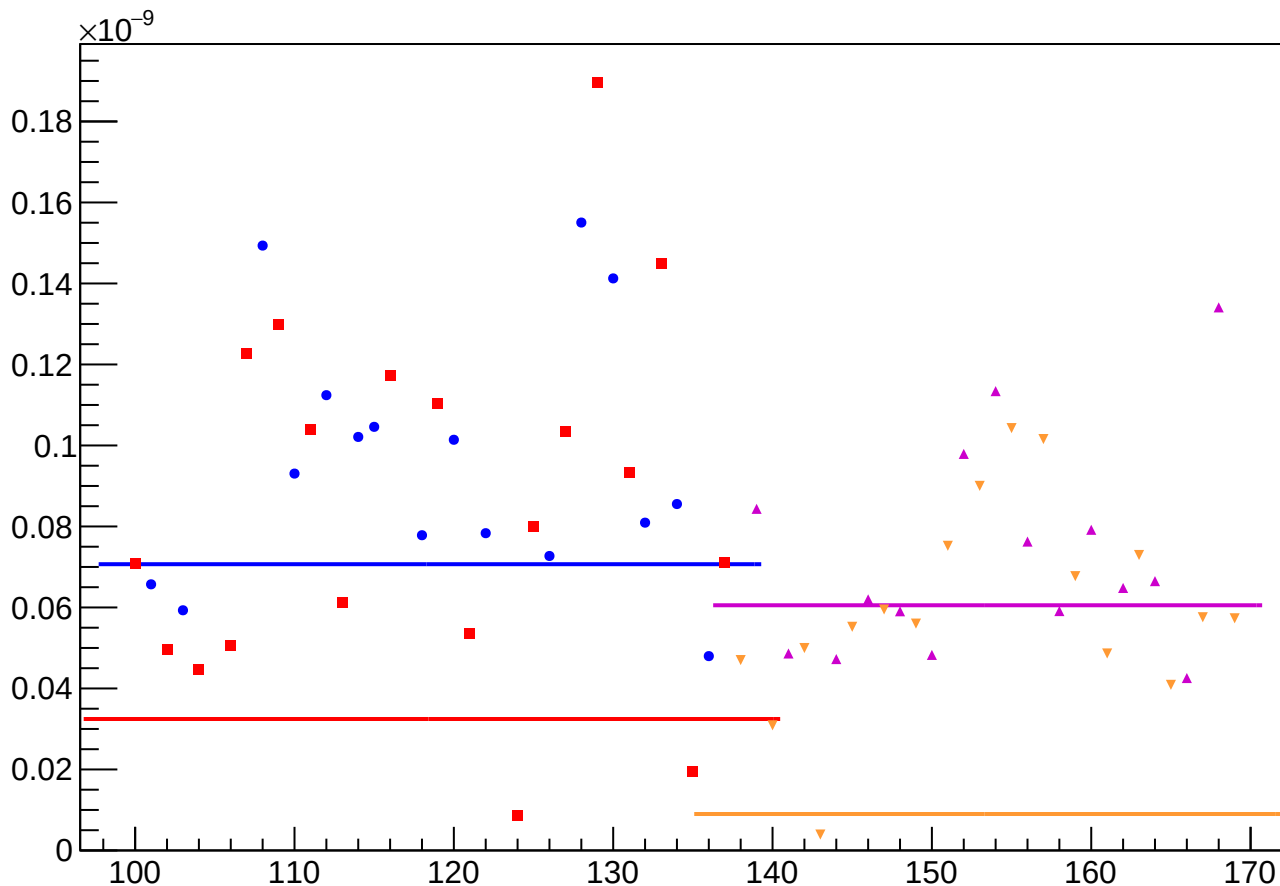
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 33.7/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:23.8/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:39.5/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 64.8/66

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1023708.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 12964923.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4449161.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 1502164.5/14

Left: 0.000+/-0.000 χ^2/NDF : 25256241.3/31

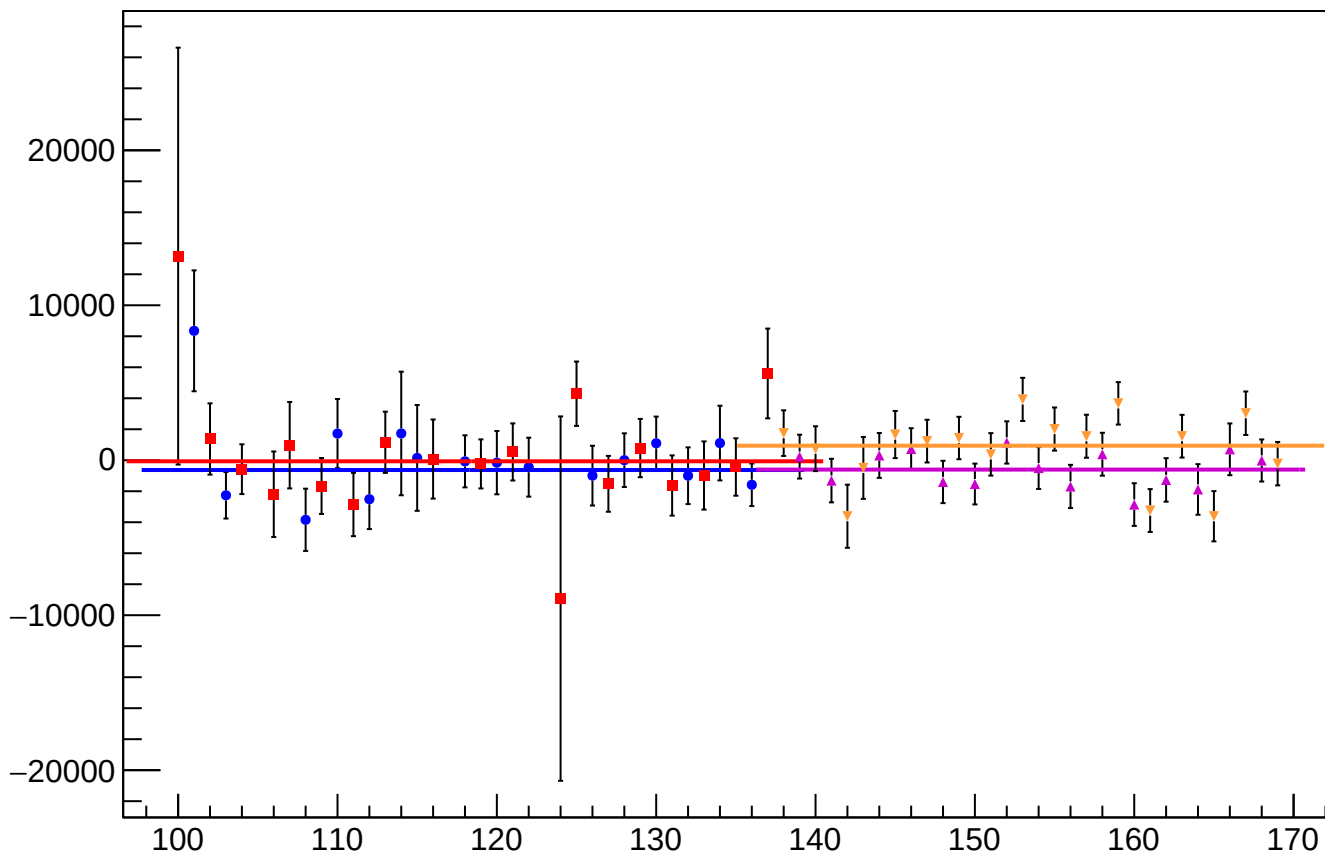
Right: 0.000+/-0.000 χ^2/NDF : 7239318.8/34

In: 0.000+/-0.000 χ^2/NDF : 2651273.3/30

Out: 0.000+/-0.000 χ^2/NDF : 19585133.2/35

All: 0.000+/-0.000 χ^2/NDF : 37388921.7/66

reg_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -631.041+/-488.663 χ^2/NDF : 13.9/15

Left Out: 939.060+/-353.814 χ^2/NDF : 35.9/16

Right Out: -67.642+/-487.761 χ^2/NDF : 15.9/18

Left In: -602.937+/-363.027 χ^2/NDF : 9.9/14

Left: 187.877+/-253.379 χ^2/NDF : 55.1/31

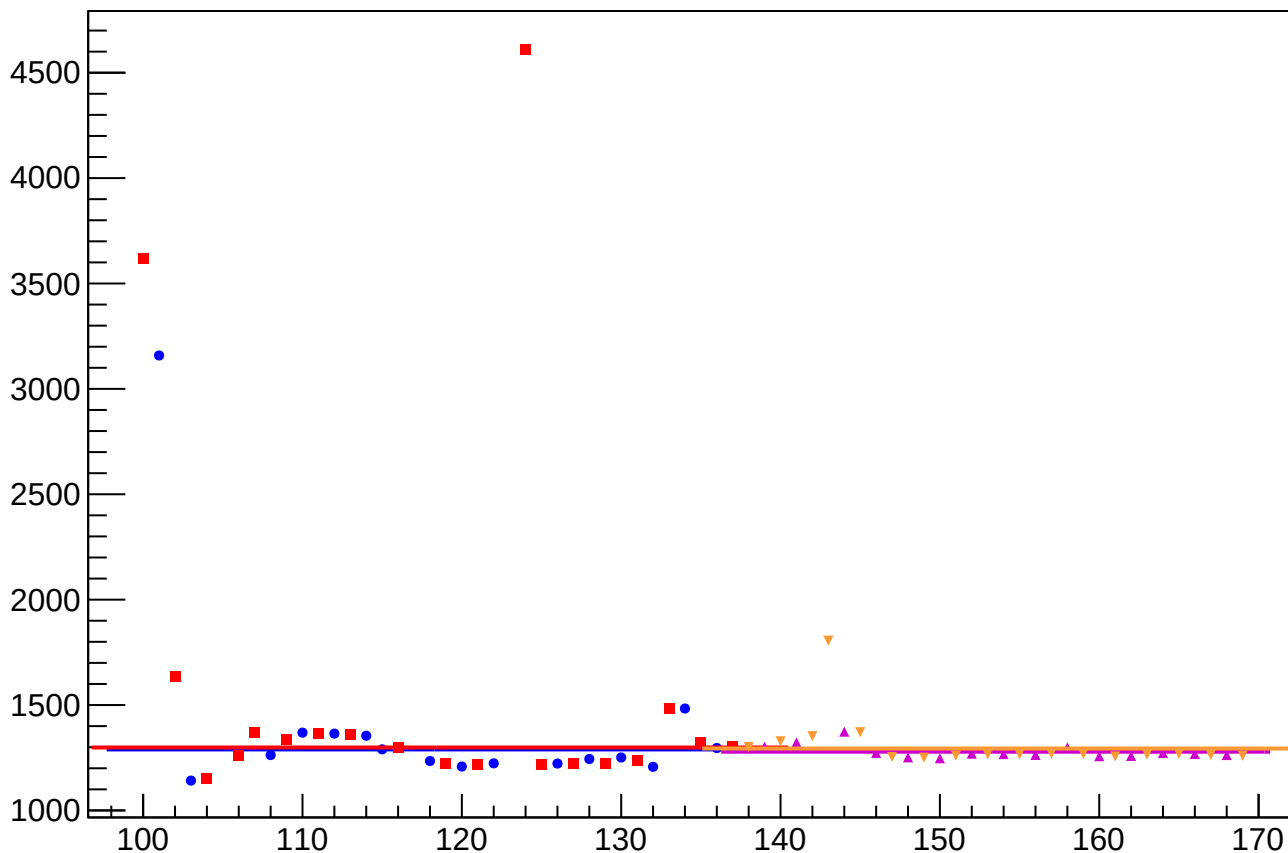
Right: -348.821+/-345.217 χ^2/NDF : 30.4/34

In: -612.932+/-291.412 χ^2/NDF : 23.8/30

Out: 591.979+/-286.399 χ^2/NDF : 54.6/35

All: -0.024+/-204.264 χ^2/NDF : 87.1/66

reg_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514675.0/15

Left Out: 1293.789+/-0.250 χ^2/NDF : 151885.4/16

Right Out: 1298.656+/-0.344 χ^2/NDF : 319374.9/18

Left In: 1278.611+/-0.257 χ^2/NDF : 15211.1/14

Left: 1286.395+/-0.179 χ^2/NDF : 168889.4/31

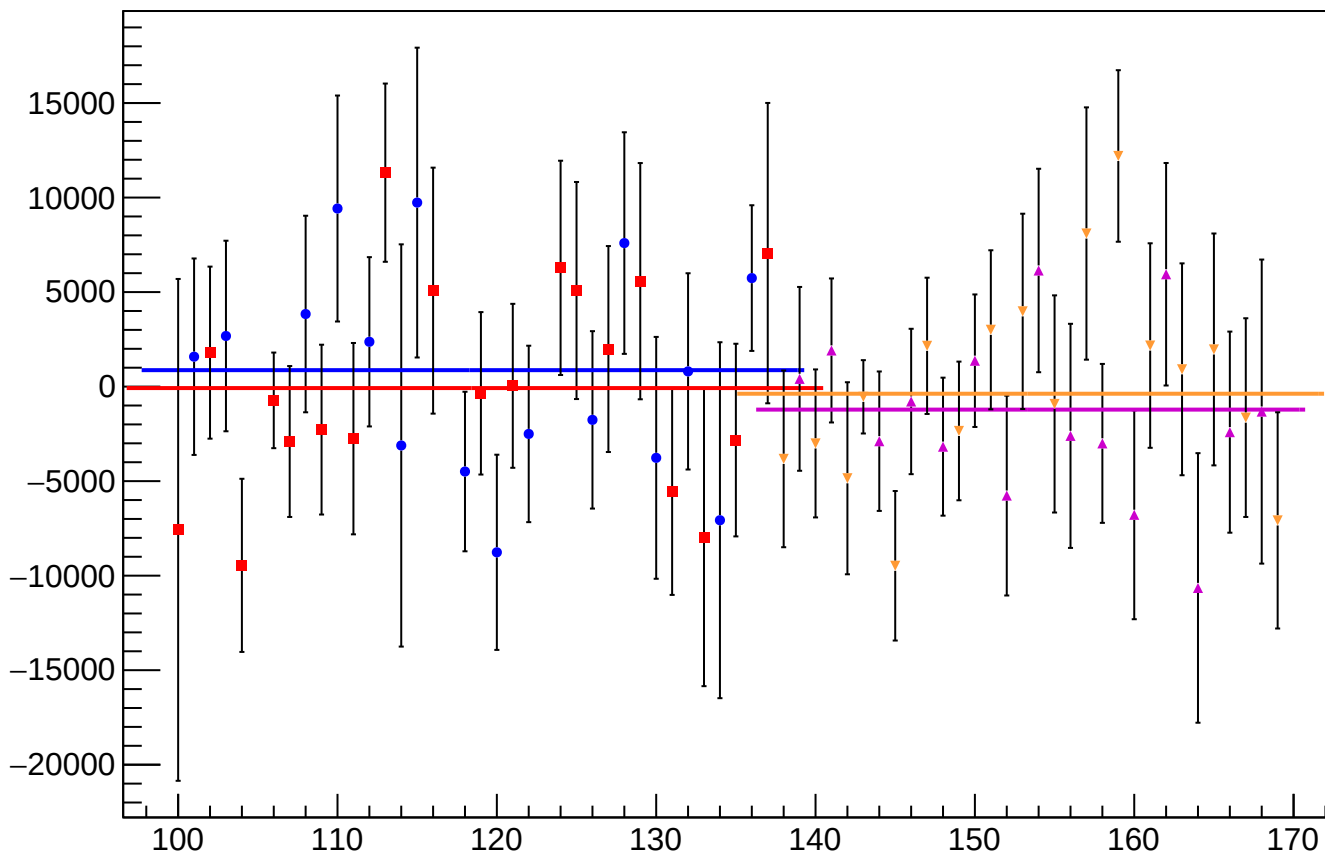
Right: 1294.081+/-0.244 χ^2/NDF : 834405.1/34

In: 1282.472+/-0.206 χ^2/NDF : 530522.1/30

Out: 1295.473+/-0.202 χ^2/NDF : 471391.2/35

All: 1289.091+/-0.144 χ^2/NDF : 1003940.0/60

asym_atl_dd_atr_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: 870.295 $\pm$ 1325.278 χ^2 /NDF: 14.0/15

Left Out: -376.488 $\pm$ 1007.264 χ^2 /NDF:20.4/16

Right Out: -77.323 $\pm$ 1111.074 χ^2 /NDF: 18.4/18

Left In: -1216.556 $\pm$ 1198.349 χ^2 /NDF:9.0/14

Left: -724.284 $\pm$ 771.061 χ^2 /NDF: 29.6/31

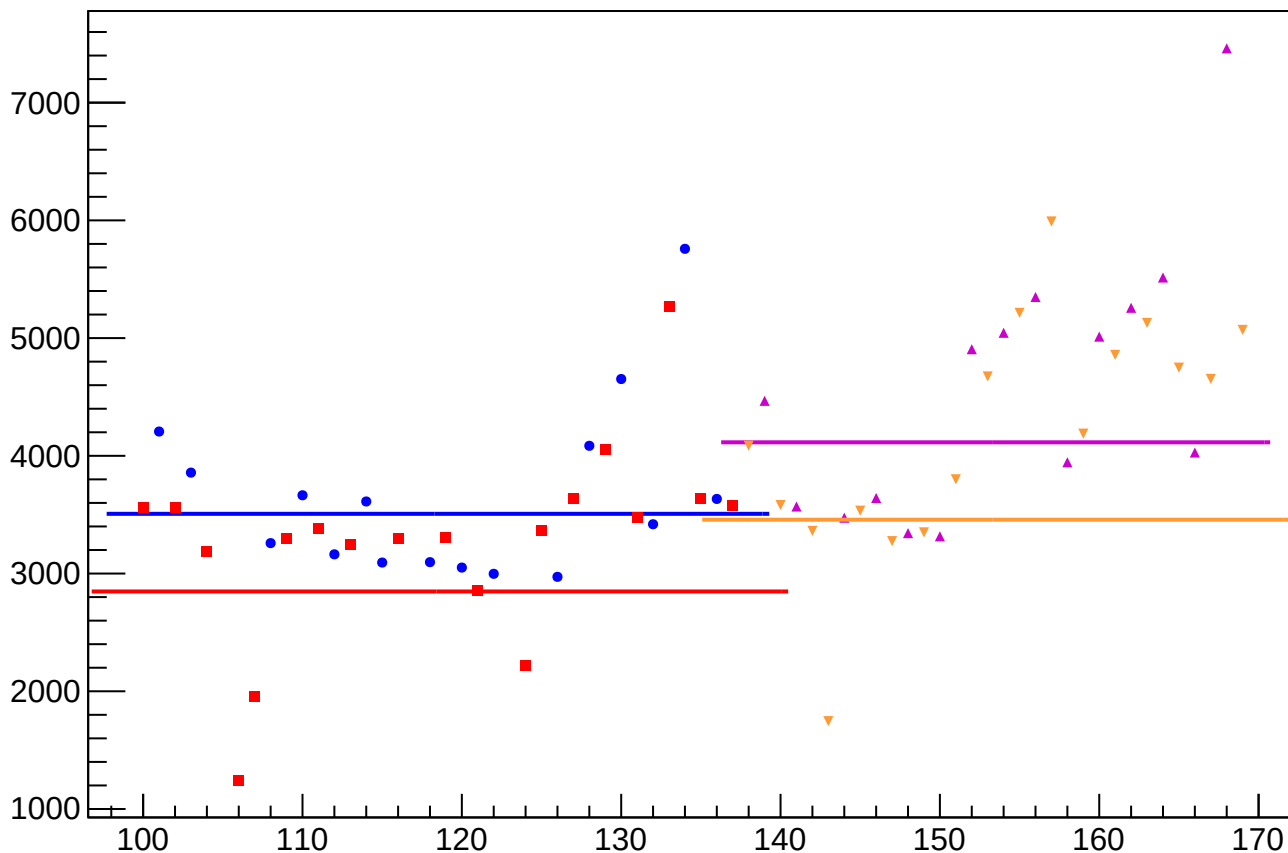
Right: 313.810 $\pm$ 851.438 χ^2 /NDF: 32.7/34

In: -277.826 $\pm$ 888.856 χ^2 /NDF:24.4/30

Out: -241.531 $\pm$ 746.252 χ^2 /NDF:38.8/35

All: -256.537 $\pm$ 571.531 χ^2 /NDF: 63.2/66

asym_atl_dd_atr_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 3507.397+/-0.937 χ^2/NDF : 353979.1/15

Left Out: 3457.353+/-0.712 χ^2/NDF : 2918517.7/16

Right Out: 2847.833+/-0.786 χ^2/NDF : 1499373.6/18

Left In: 4114.845+/-0.847 χ^2/NDF : 1081883.1/14

Left: 3729.561+/-0.545 χ^2/NDF : 4353205.5/31

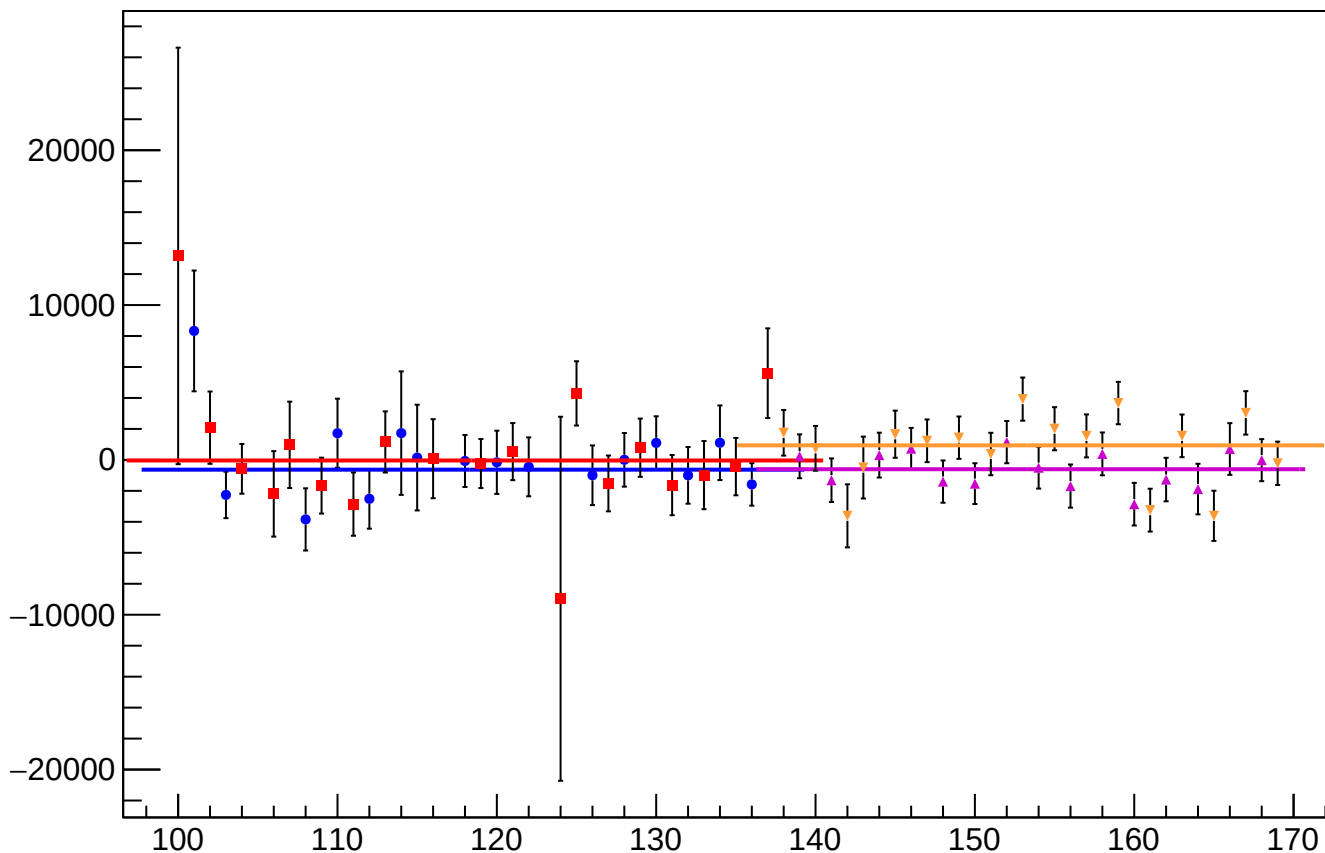
Right: 3120.071+/-0.602 χ^2/NDF : 2144256.9/34

In: 3841.596+/-0.629 χ^2/NDF : 1667031.3/30

Out: 3182.391+/-0.528 χ^2/NDF : 4748263.4/35

All: 3454.935+/-0.404 χ^2/NDF : 7060528.9/66

cor_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2 /NDF: 13.9/15

Left Out: 939.089+/-353.814 χ^2 /NDF:35.9/16

Right Out: -38.623+/-488.084 χ^2 /NDF: 16.3/18

Left In: -602.935+/-363.027 χ^2 /NDF:9.9/14

Left: 187.893+/-253.379 χ^2 /NDF: 55.1/31

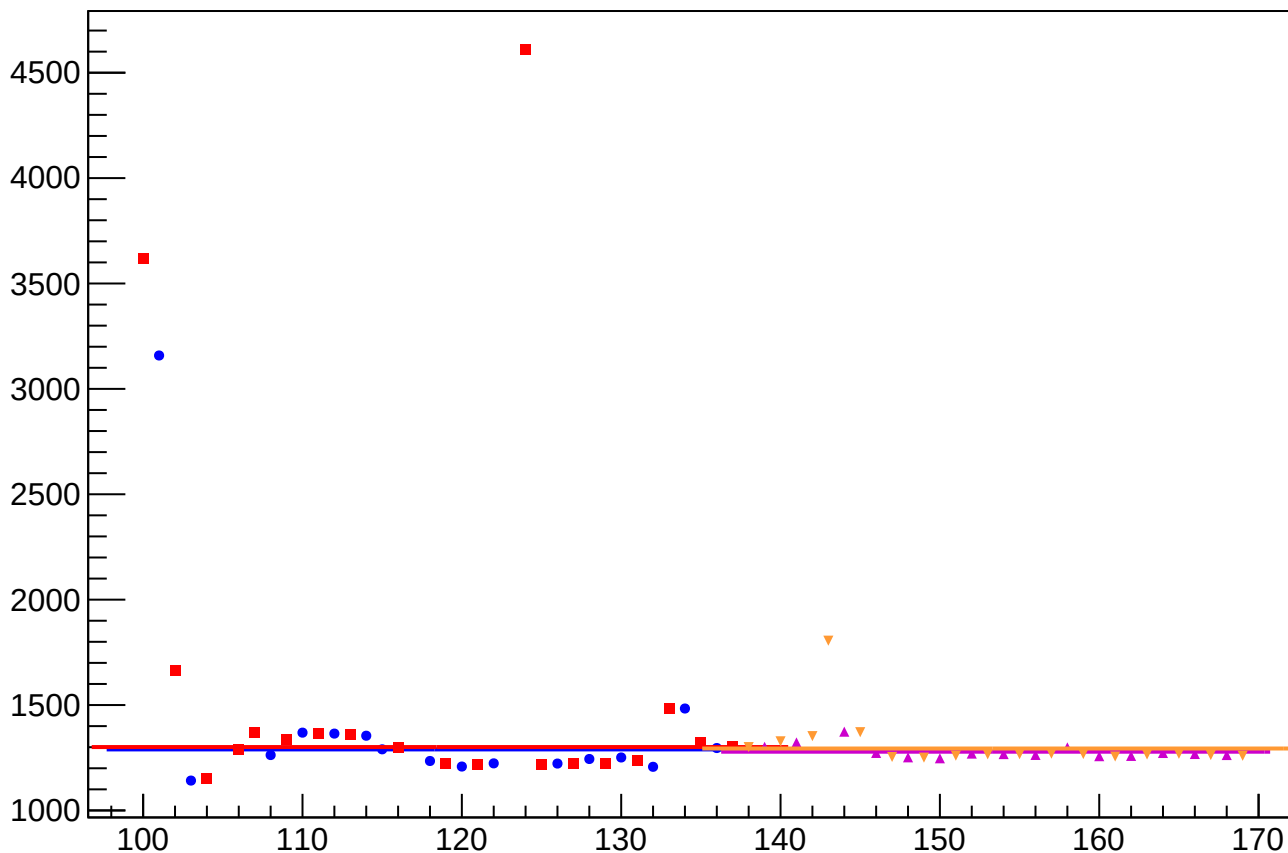
Right: -334.674+/-345.332 χ^2 /NDF: 30.9/34

In: -613.067+/-291.412 χ^2 /NDF:23.8/30

Out: 602.296+/-286.465 χ^2 /NDF:54.9/35

All: 5.019+/-204.288 χ^2 /NDF: 87.5/66

cor_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514676.5/15

Left Out: 1293.789+/-0.250 χ^2/NDF : 151885.4/16

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1278.611+/-0.257 χ^2/NDF : 15211.1/14

Left: 1286.395+/-0.179 χ^2/NDF : 168889.4/31

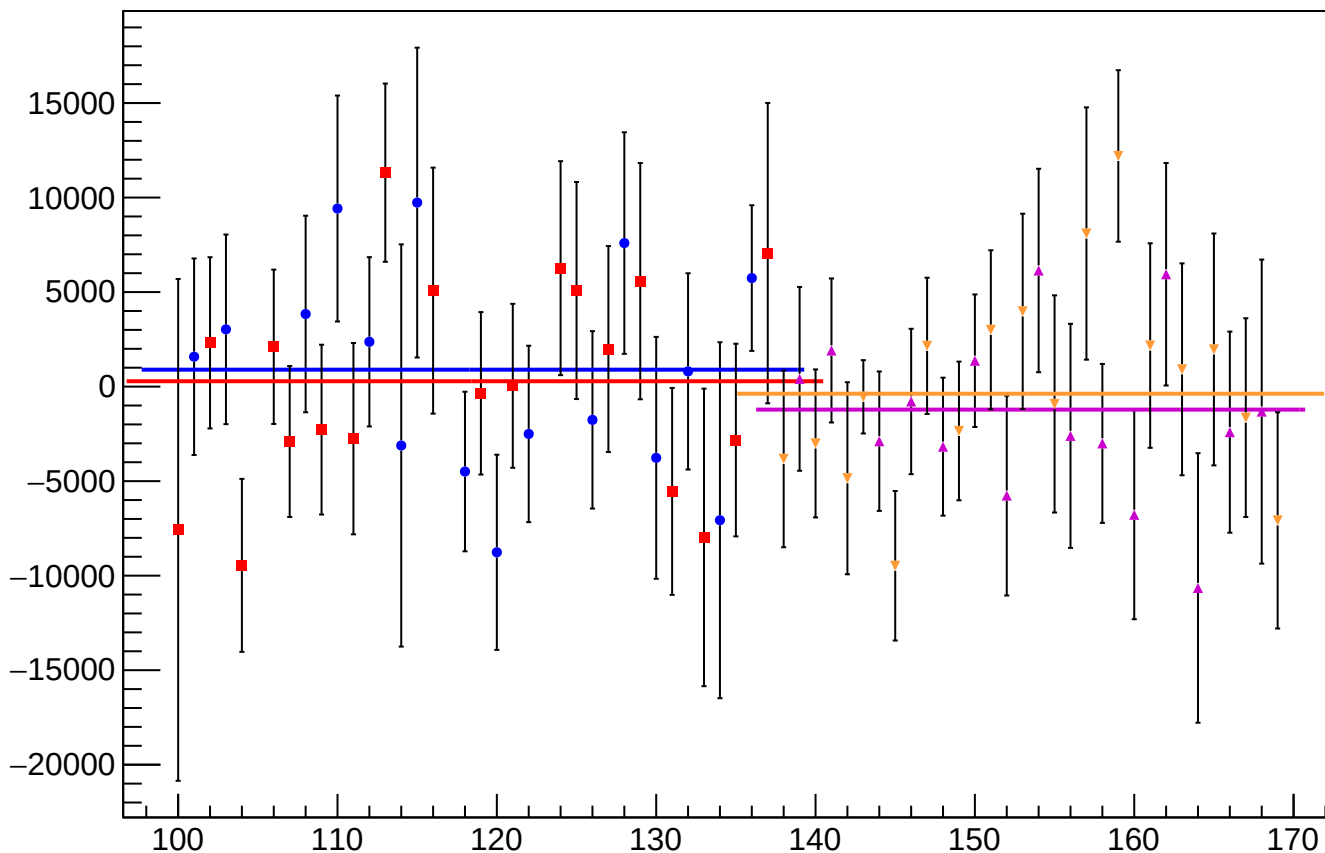
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1282.472+/-0.206 χ^2/NDF : 530523.5/30

Out: 1296.170+/-0.202 χ^2/NDF : 478055.3/35

All: 1289.442+/-0.144 χ^2/NDF : 1010827.7/60

asym_atl_dd_atr_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 $\pm$ 1324.823 χ^2 /NDF: 14.1/15

Left Out: -376.389 $\pm$ 1007.262 χ^2 /NDF:20.4/16

Right Out: 283.963 $\pm$ 1183.171 χ^2 /NDF: 18.6/18

Left In: -1216.598 $\pm$ 1198.348 χ^2 /NDF:9.0/14

Left: -724.243 $\pm$ 771.060 χ^2 /NDF: 29.6/31

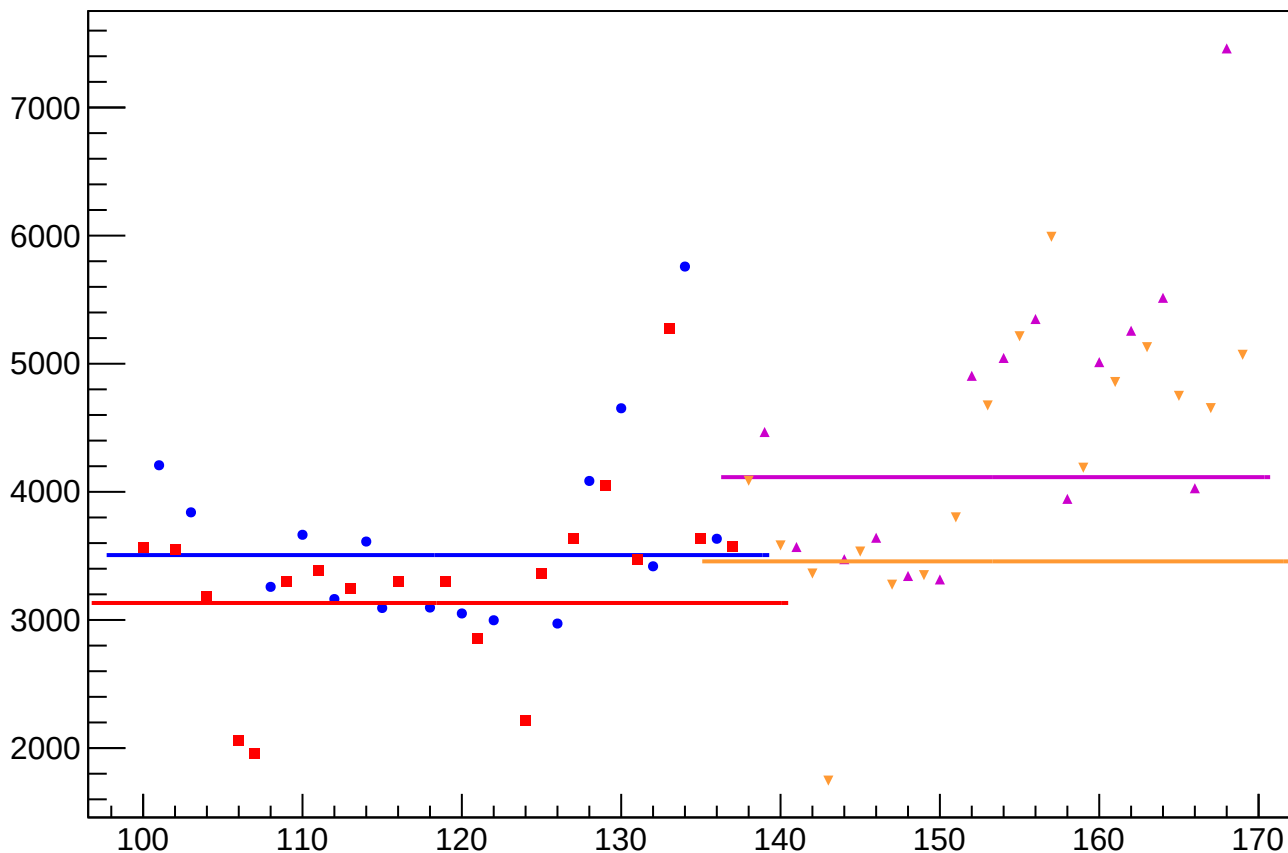
Right: 555.531 $\pm$ 882.475 χ^2 /NDF: 32.8/34

In: -265.921 $\pm$ 888.719 χ^2 /NDF:24.5/30

Out: -98.905 $\pm$ 766.971 χ^2 /NDF:39.2/35

All: -170.198 $\pm$ 580.642 χ^2 /NDF: 63.7/66

asym_atl_dd_atr_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484+/-0.937 χ^2/NDF : 353237.7/15

Left Out: 3457.343+/-0.712 χ^2/NDF : 2918548.6/16

Right Out: 3132.586+/-0.837 χ^2/NDF : 649611.1/18

Left In: 4114.841+/-0.847 χ^2/NDF : 1081884.2/14

Left: 3729.553+/-0.545 χ^2/NDF : 4353244.4/31

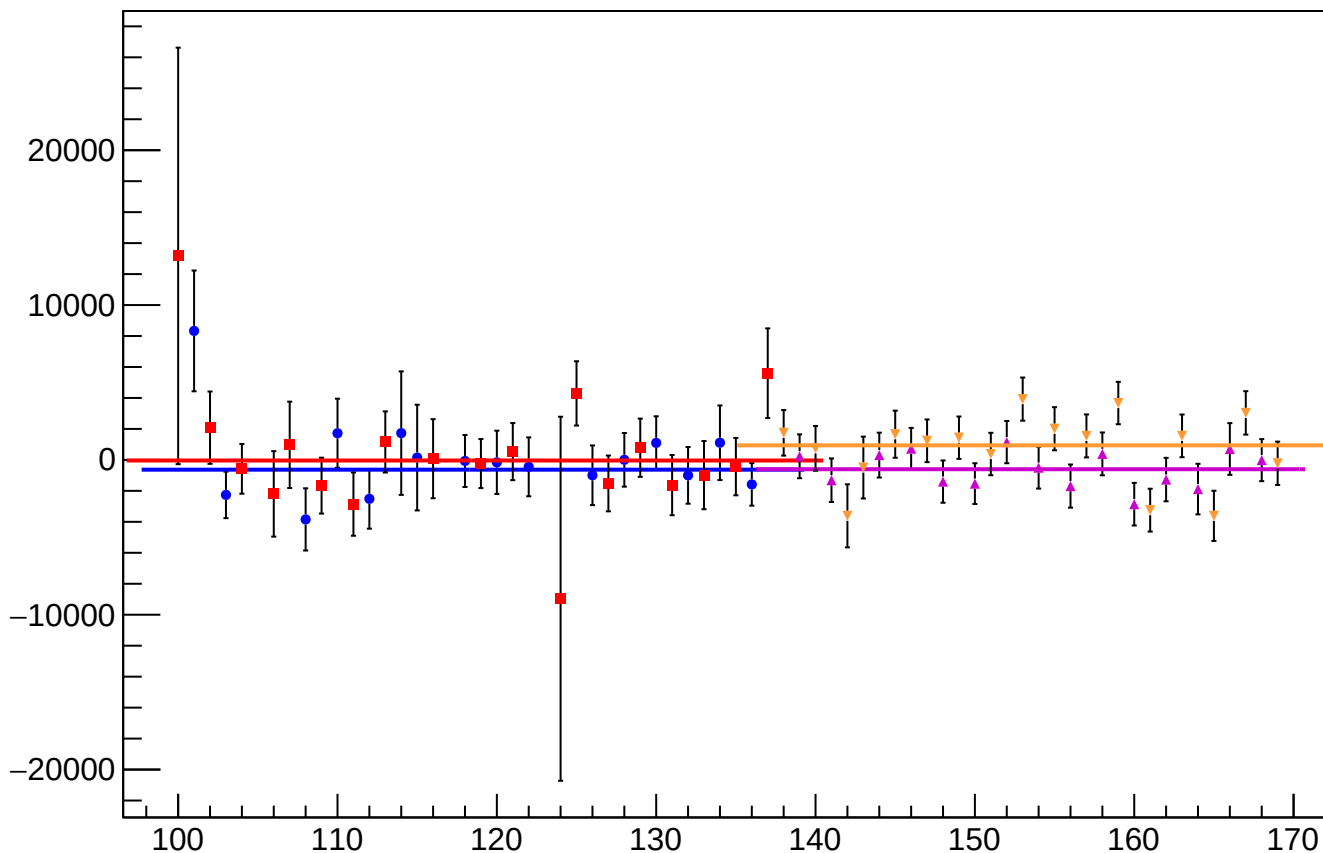
Right: 3298.485+/-0.624 χ^2/NDF : 1091468.2/34

In: 3841.080+/-0.628 χ^2/NDF : 1667071.2/30

Out: 3320.878+/-0.542 χ^2/NDF : 3655522.0/35

All: 3542.933+/-0.411 χ^2/NDF : 5715331.9/66

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 939.089+/-353.814 χ^2/NDF : 35.9/16

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -602.935+/-363.027 χ^2/NDF : 9.9/14

Left: 187.893+/-253.379 χ^2/NDF : 55.1/31

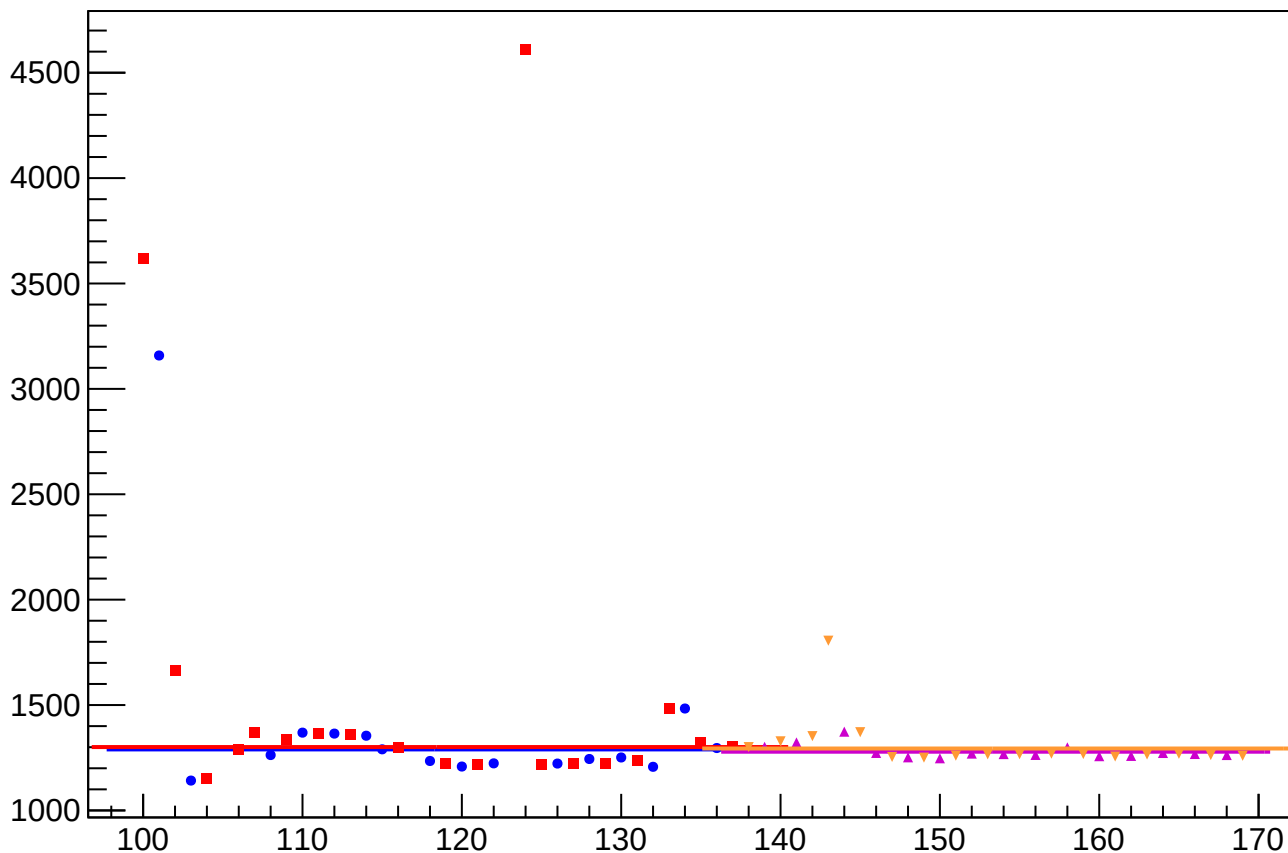
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -613.067+/-291.412 χ^2/NDF : 23.8/30

Out: 602.296+/-286.465 χ^2/NDF : 54.9/35

All: 5.019+/-204.288 χ^2/NDF : 87.5/66

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.346 χ^2 /NDF: 514676.5/15

Left Out: 1293.789 $\pm$ 0.250 χ^2 /NDF: 151885.4/16

Right Out: 1300.684 $\pm$ 0.344 χ^2 /NDF: 325907.6/18

Left In: 1278.611 $\pm$ 0.257 χ^2 /NDF: 15211.1/14

Left: 1286.395 $\pm$ 0.179 χ^2 /NDF: 168889.4/31

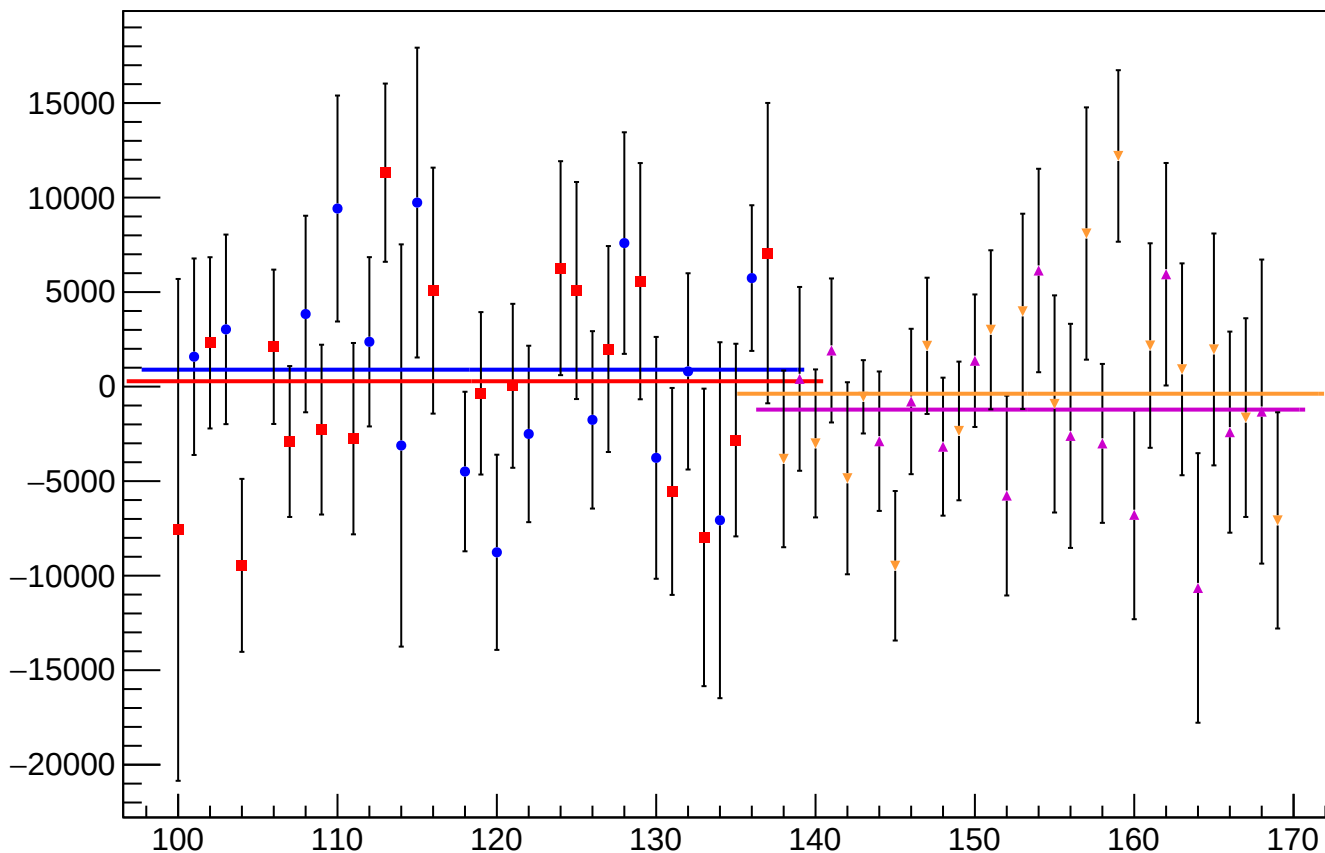
Right: 1295.092 $\pm$ 0.244 χ^2 /NDF: 841112.8/34

In: 1282.472 $\pm$ 0.206 χ^2 /NDF: 530523.5/30

Out: 1296.170 $\pm$ 0.202 χ^2 /NDF: 478055.3/35

All: 1289.442 $\pm$ 0.144 χ^2 /NDF: 1010827.7/66

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017+/-1324.823 χ^2/NDF : 14.1/15

Left Out: -376.389+/-1007.262 χ^2/NDF : 20.4/16

Right Out: 283.963+/-1183.171 χ^2/NDF : 18.6/18

Left In: -1216.598+/-1198.348 χ^2/NDF : 9.0/14

Left: -724.243+/-771.060 χ^2/NDF : 29.6/31

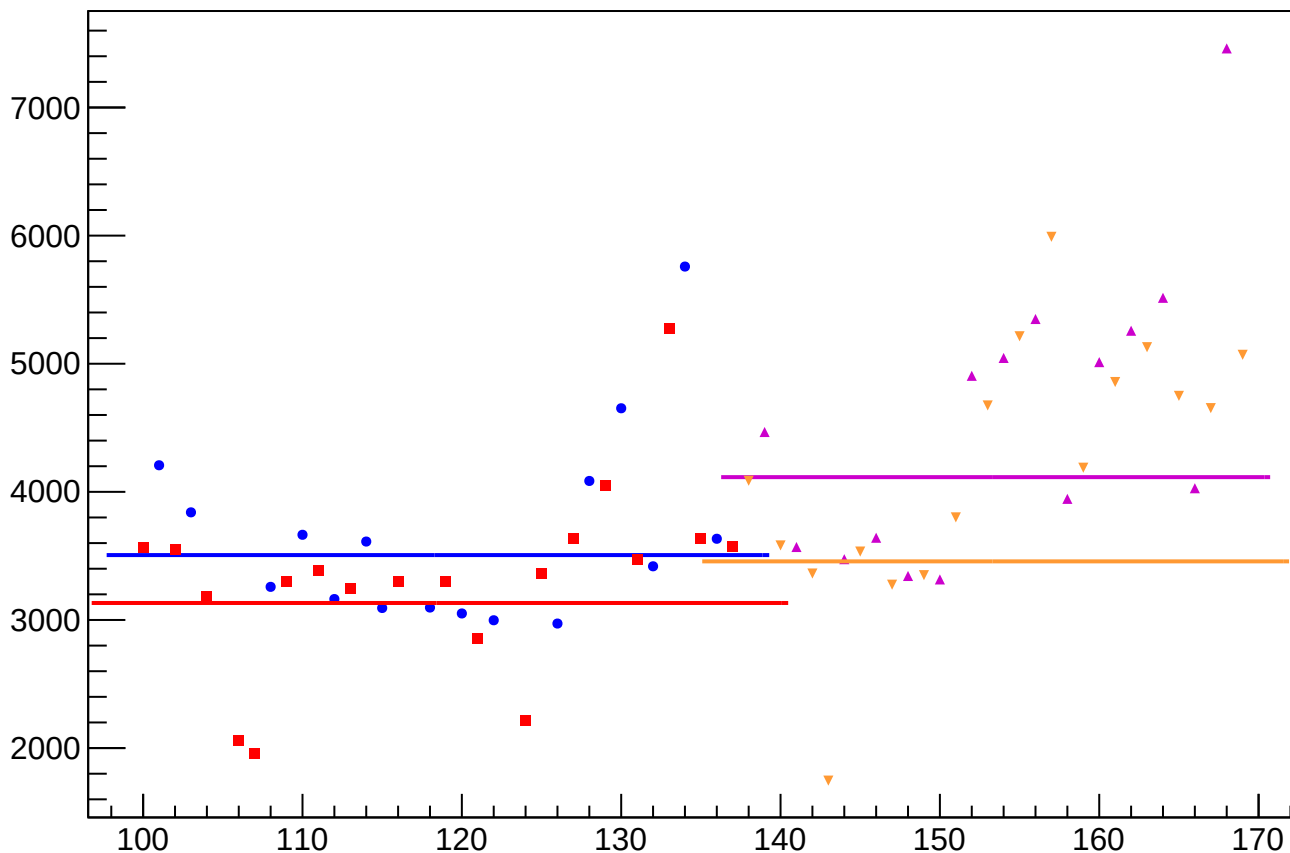
Right: 555.531+/-882.475 χ^2/NDF : 32.8/34

In: -265.921+/-888.719 χ^2/NDF : 24.5/30

Out: -98.905+/-766.971 χ^2/NDF : 39.2/35

All: -170.198+/-580.642 χ^2/NDF : 63.7/66

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484 $\pm$ 0.937 χ^2 /NDF: 353237.7/15

Left Out: 3457.343 $\pm$ 0.712 χ^2 /NDF: 2918548.6/16

Right Out: 3132.586 $\pm$ 0.837 χ^2 /NDF: 649611.1/18

Left In: 4114.841 $\pm$ 0.847 χ^2 /NDF: 1081884.2/14

Left: 3729.553 $\pm$ 0.545 χ^2 /NDF: 4353244.4/31

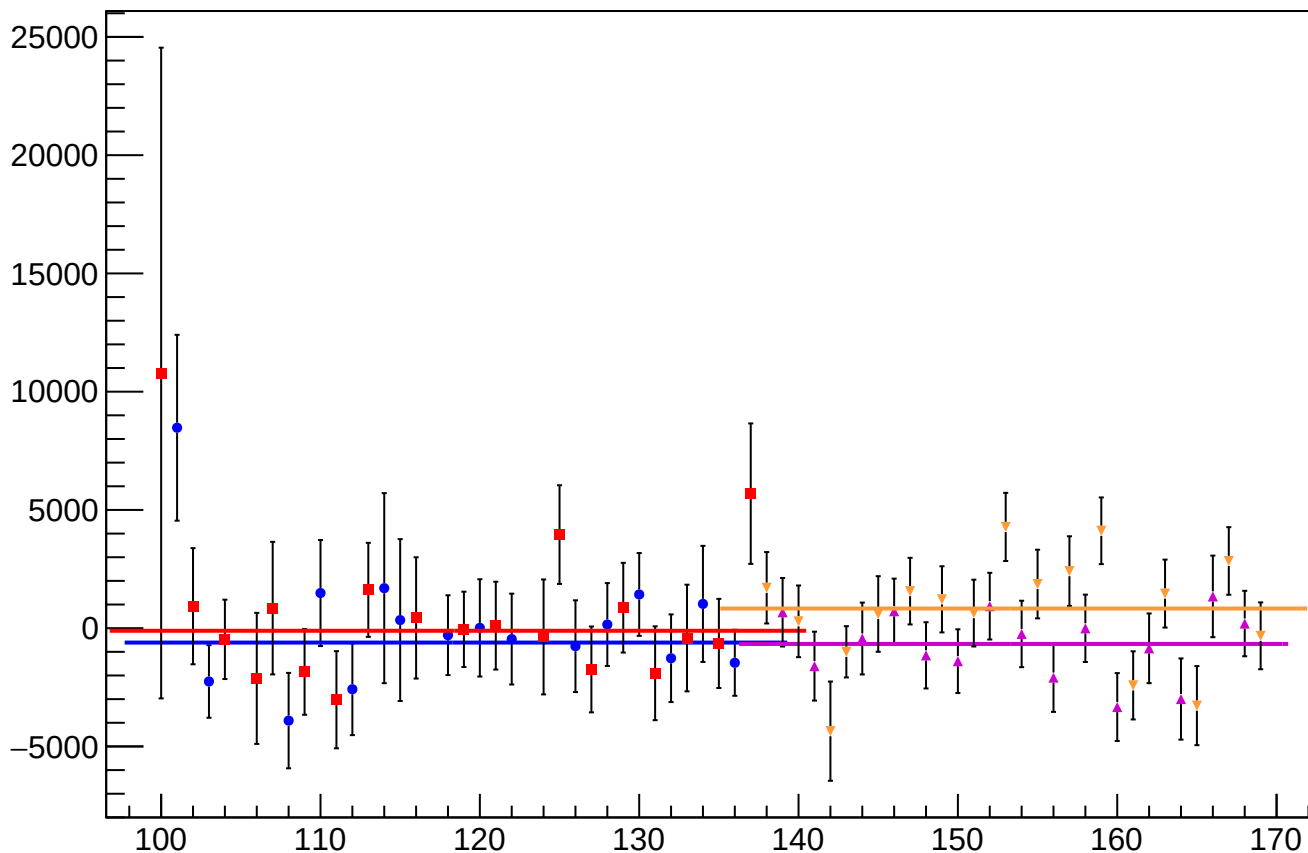
Right: 3298.485 $\pm$ 0.624 χ^2 /NDF: 1091468.2/34

In: 3841.080 $\pm$ 0.628 χ^2 /NDF: 1667071.2/30

Out: 3320.878 $\pm$ 0.542 χ^2 /NDF: 3655522.0/35

All: 3542.933 $\pm$ 0.411 χ^2 /NDF: 5715331.9/66

dit_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -607.831+/-494.182 χ^2/NDF : 14.1/15

Left Out: 832.149+/-351.448 χ^2/NDF : 36.6/16

Right Out: -108.614+/-485.552 χ^2/NDF : 14.9/18

Left In: -666.444+/-375.492 χ^2/NDF : 12.3/14

Left: 132.367+/-256.591 χ^2/NDF : 57.4/31

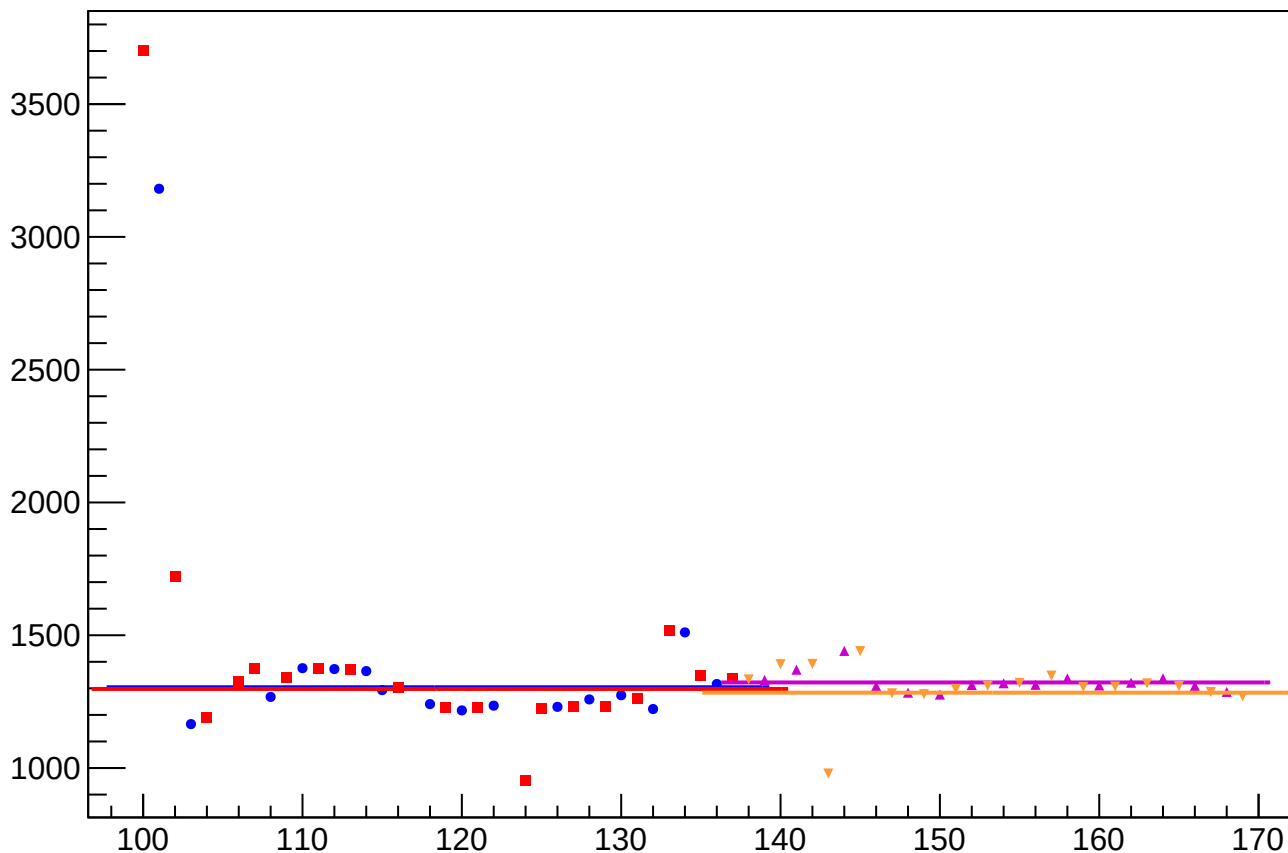
Right: -353.826+/-346.348 χ^2/NDF : 29.5/34

In: -644.990+/-298.978 χ^2/NDF : 26.4/30

Out: 508.725+/-284.697 χ^2/NDF : 53.9/35

All: -39.921+/-206.175 χ^2/NDF : 88.2/66

dit_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1304.102 $\pm$ 0.349 χ^2 /NDF: 510589.4/15

Left Out: 1283.747 $\pm$ 0.249 χ^2 /NDF: 203238.3/16

Right Out: 1297.796 $\pm$ 0.343 χ^2 /NDF: 213096.9/18

Left In: 1322.253 $\pm$ 0.266 χ^2 /NDF: 20620.9/14

Left: 1301.728 $\pm$ 0.181 χ^2 /NDF: 235070.5/31

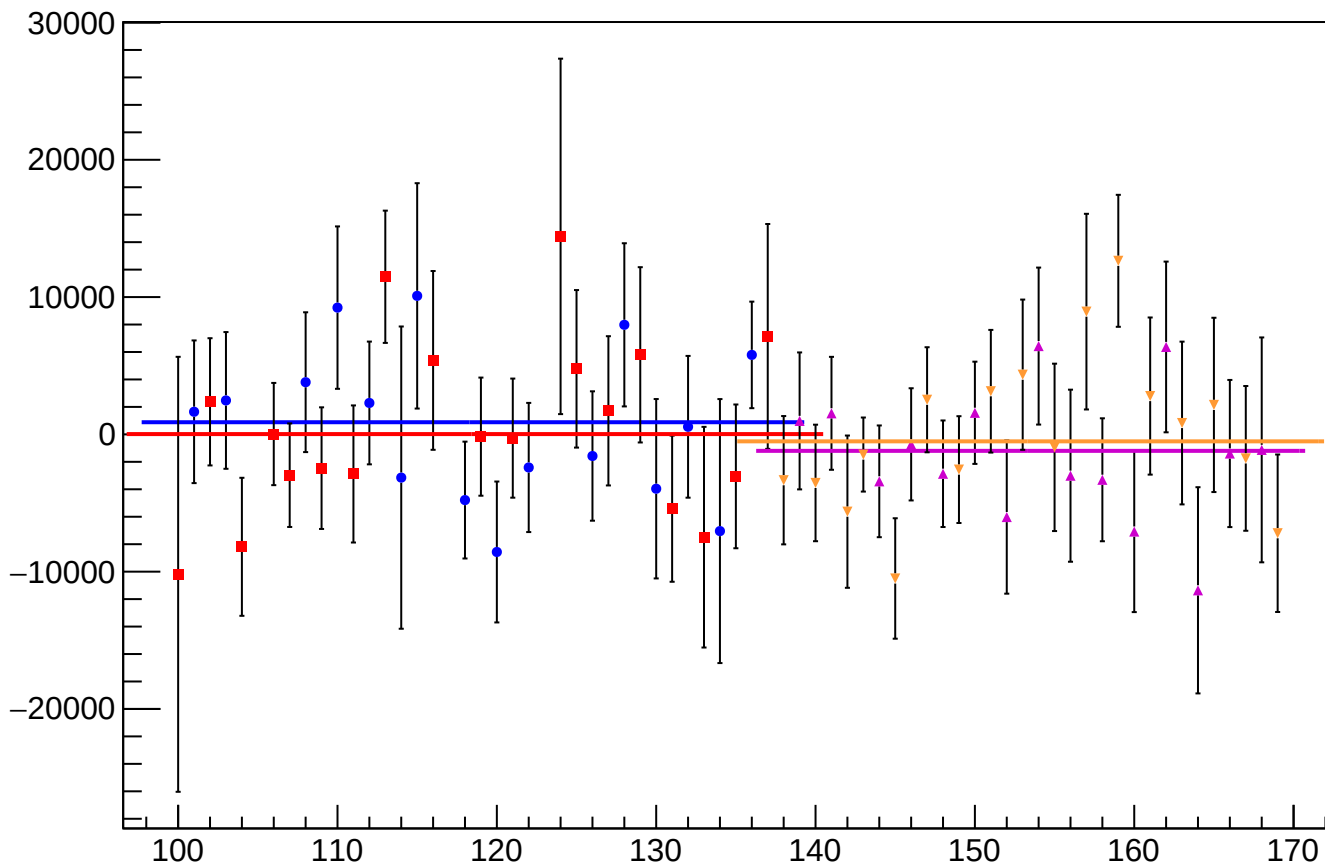
Right: 1300.891 $\pm$ 0.245 χ^2 /NDF: 723852.1/34

In: 1315.609 $\pm$ 0.211 χ^2 /NDF: 532920.8/30

Out: 1288.581 $\pm$ 0.201 χ^2 /NDF: 417435.1/35

All: 1301.431 $\pm$ 0.146 χ^2 /NDF: 958930.1/66

asym_atl_dd_atr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.058 ± 1327.399 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -508.088 ± 1131.417 $\chi^2/\text{NDF}: 20.6/16$

Right Out: 20.681 ± 1200.015 $\chi^2/\text{NDF}: 16.8/18$

Left In: -1201.301 ± 1271.509 $\chi^2/\text{NDF}: 8.8/14$

Left: -814.417 ± 845.240 $\chi^2/\text{NDF}: 29.6/31$

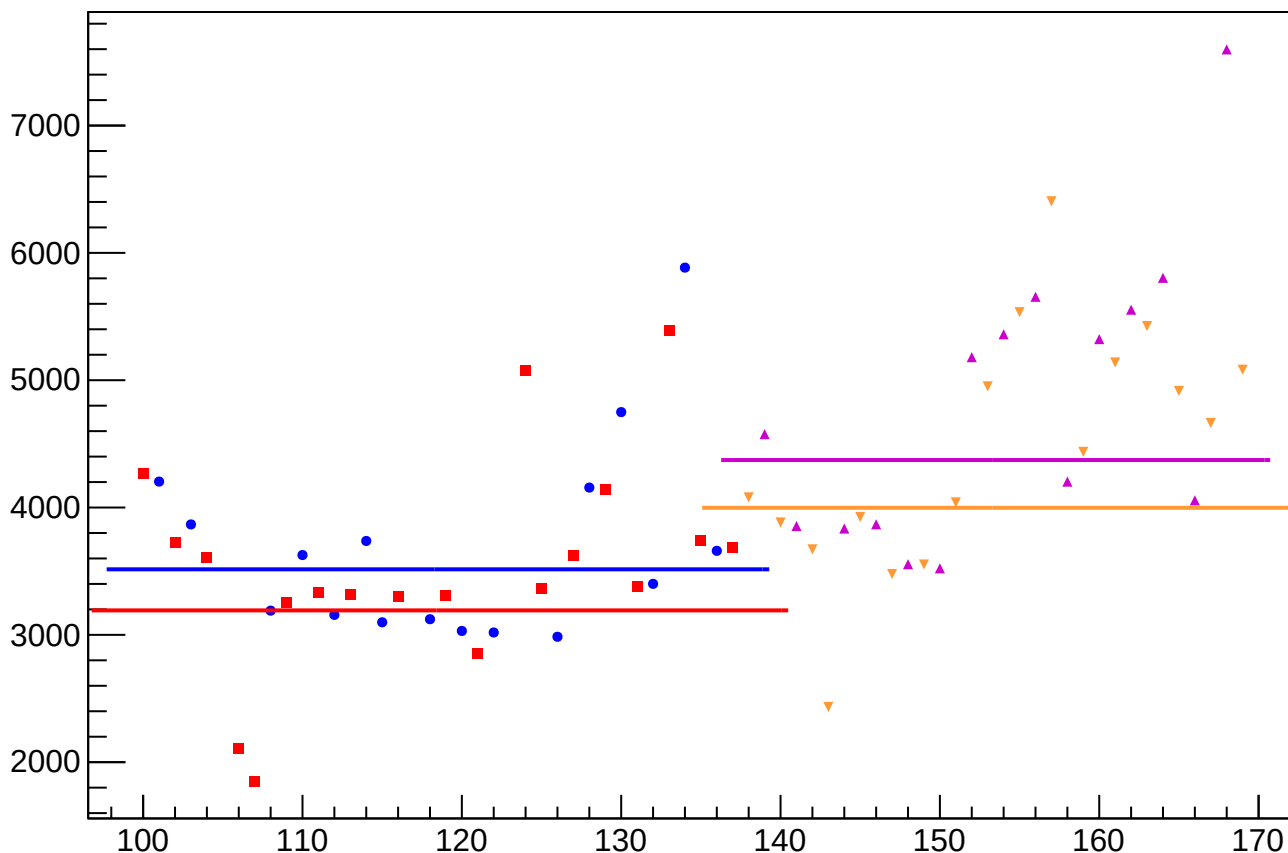
Right: 408.965 ± 890.176 $\chi^2/\text{NDF}: 31.2/34$

In: -203.447 ± 918.215 $\chi^2/\text{NDF}: 24.2/30$

Out: -259.248 ± 823.216 $\chi^2/\text{NDF}: 37.6/35$

All: -234.383 ± 612.945 $\chi^2/\text{NDF}: 61.8/66$

asym_atl_dd_atr_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.746 $\pm$ 0.939 χ^2 /NDF: 375078.6/15

Left Out: 3997.981 $\pm$ 0.800 χ^2 /NDF: 1518888.0/16

Right Out: 3192.203 $\pm$ 0.849 χ^2 /NDF: 772495.7/18

Left In: 4373.056 $\pm$ 0.899 χ^2 /NDF: 996365.1/14

Left: 4163.725 $\pm$ 0.598 χ^2 /NDF: 2612381.0/31

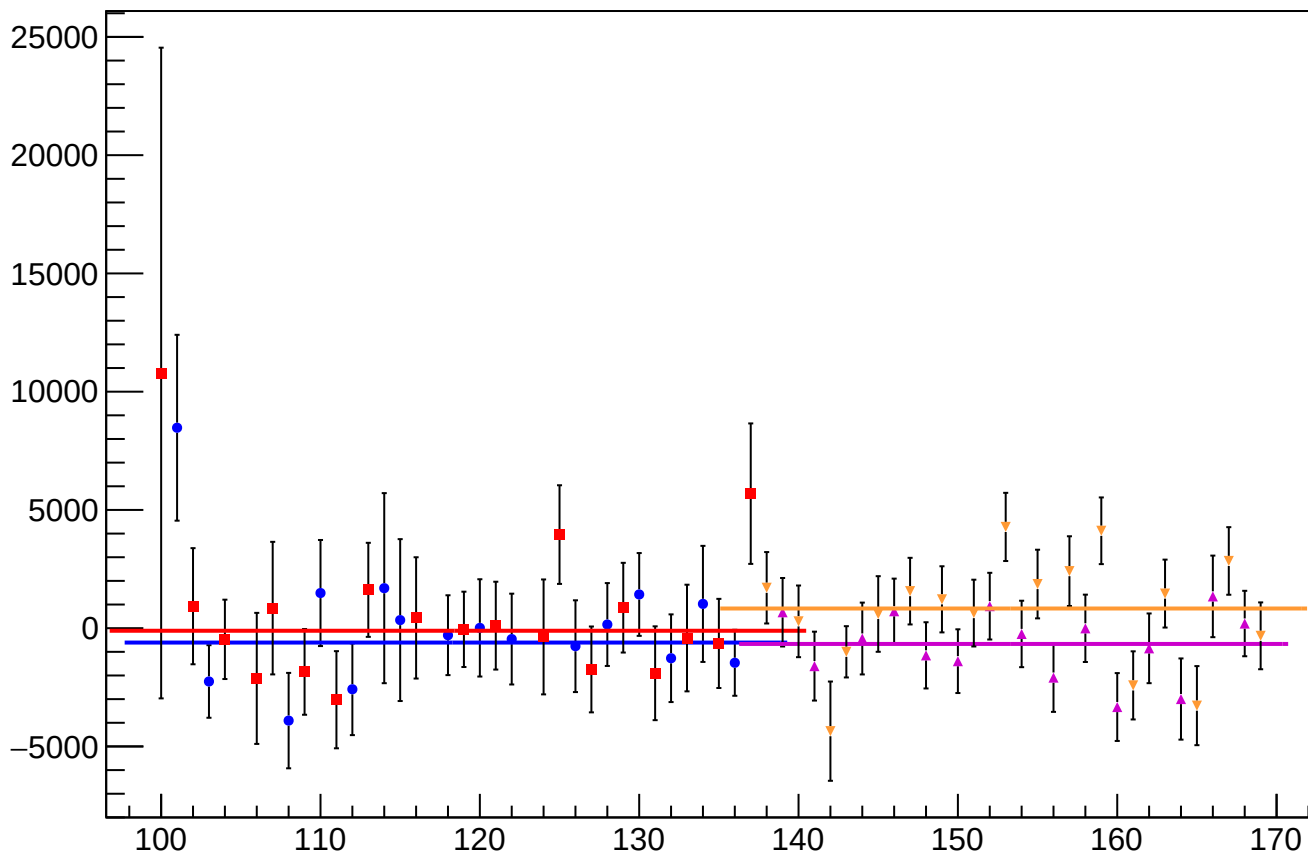
Right: 3337.259 $\pm$ 0.629 χ^2 /NDF: 1212554.2/34

In: 3962.351 $\pm$ 0.649 χ^2 /NDF: 1807524.1/30

Out: 3618.780 $\pm$ 0.582 χ^2 /NDF: 2768768.6/35

All: 3771.878 $\pm$ 0.433 χ^2 /NDF: 4731527.5/66

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Left: 132.369 $\pm$ 256.591 χ^2/NDF : 57.4/31

Right: -353.830 $\pm$ 346.348 χ^2/NDF : 29.5/34

In: -644.992 $\pm$ 298.978 χ^2/NDF : 26.4/30

Out: 508.726 $\pm$ 284.697 χ^2/NDF : 53.9/35

All: -39.921 $\pm$ 206.175 χ^2/NDF : 88.2/66

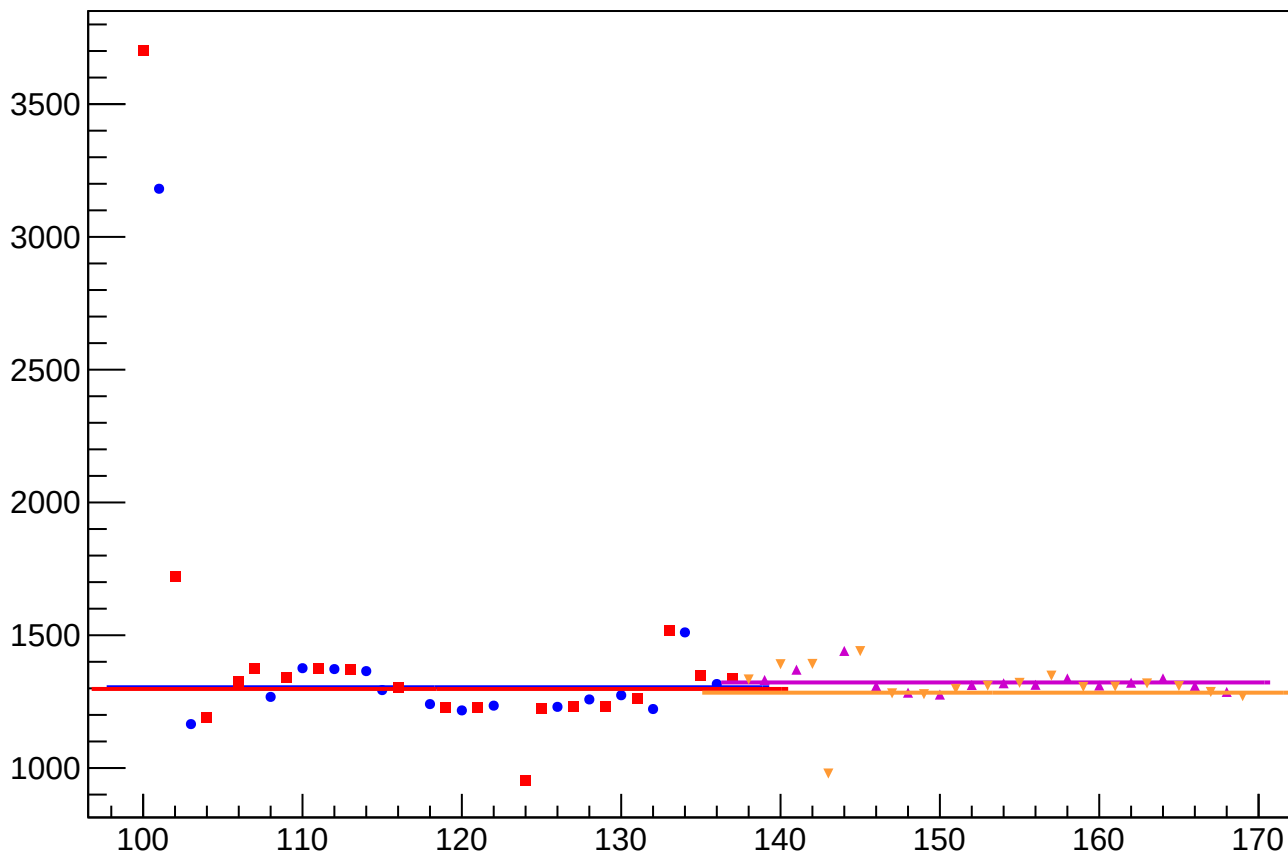
Right In: -607.834 $\pm$ 494.182 χ^2/NDF : 14.1/15

Left Out: 832.154 $\pm$ 351.448 χ^2/NDF : 36.6/16

Right Out: -108.619 $\pm$ 485.553 χ^2/NDF : 14.9/18

Left In: -666.445 $\pm$ 375.493 χ^2/NDF : 12.3/14

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1304.102 $\pm$ 0.349 χ^2 /NDF: 510589.6/15

Left Out: 1283.748 $\pm$ 0.249 χ^2 /NDF: 203239.1/16

Right Out: 1297.796 $\pm$ 0.343 χ^2 /NDF: 213097.0/18

Left In: 1322.254 $\pm$ 0.266 χ^2 /NDF: 20621.1/14

Left: 1301.729 $\pm$ 0.181 χ^2 /NDF: 235071.4/31

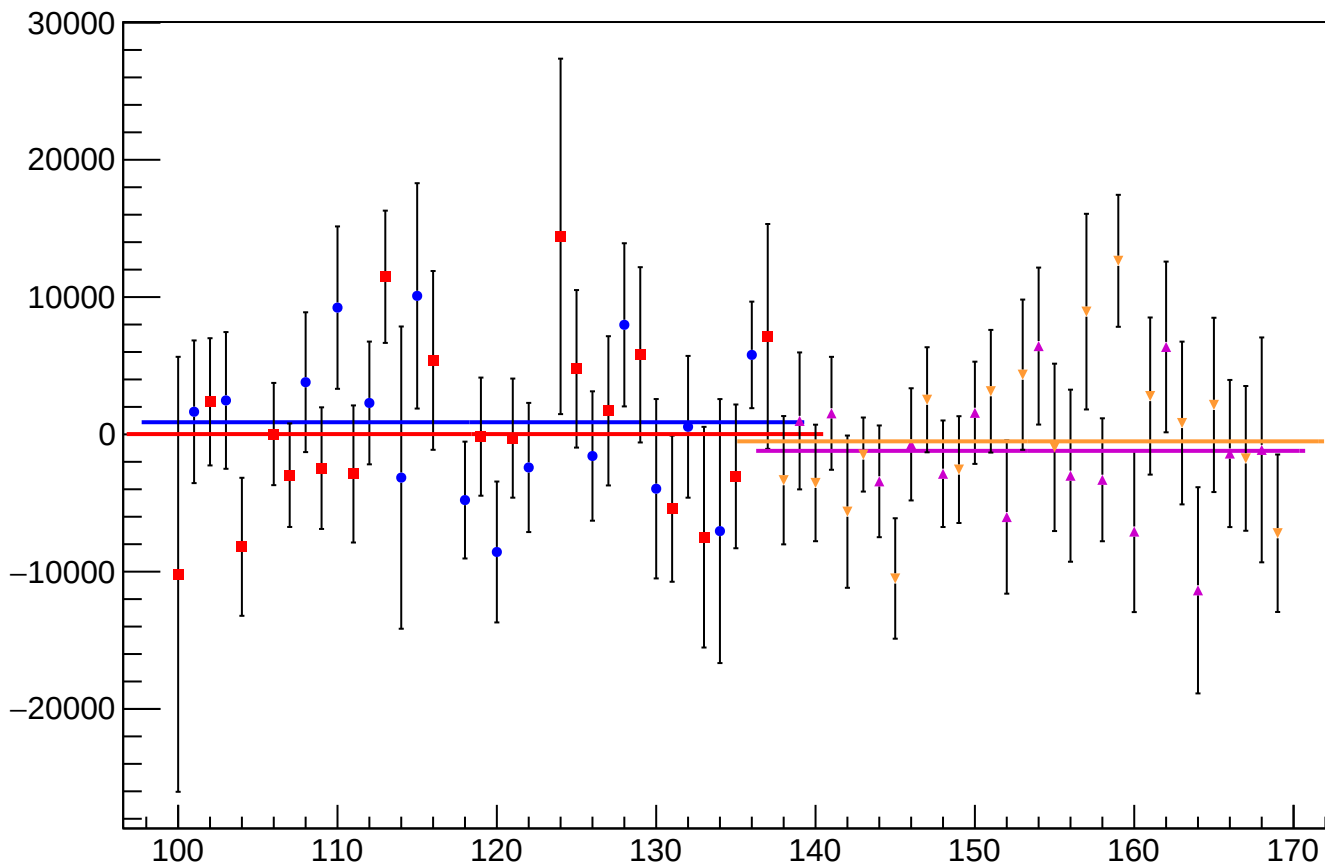
Right: 1300.891 $\pm$ 0.245 χ^2 /NDF: 723852.4/34

In: 1315.610 $\pm$ 0.211 χ^2 /NDF: 532921.4/30

Out: 1288.582 $\pm$ 0.201 χ^2 /NDF: 417435.7/35

All: 1301.432 $\pm$ 0.146 χ^2 /NDF: 958931.4/66

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.047 ± 1327.396 χ^2/NDF : 14.1/15

Left Out: -508.085 ± 1131.418 χ^2/NDF : 20.6/16

Right Out: 20.677 ± 1200.012 χ^2/NDF : 16.8/18

Left In: -1201.300 ± 1271.511 χ^2/NDF : 8.8/14

Left: -814.415 ± 845.241 χ^2/NDF : 29.6/31

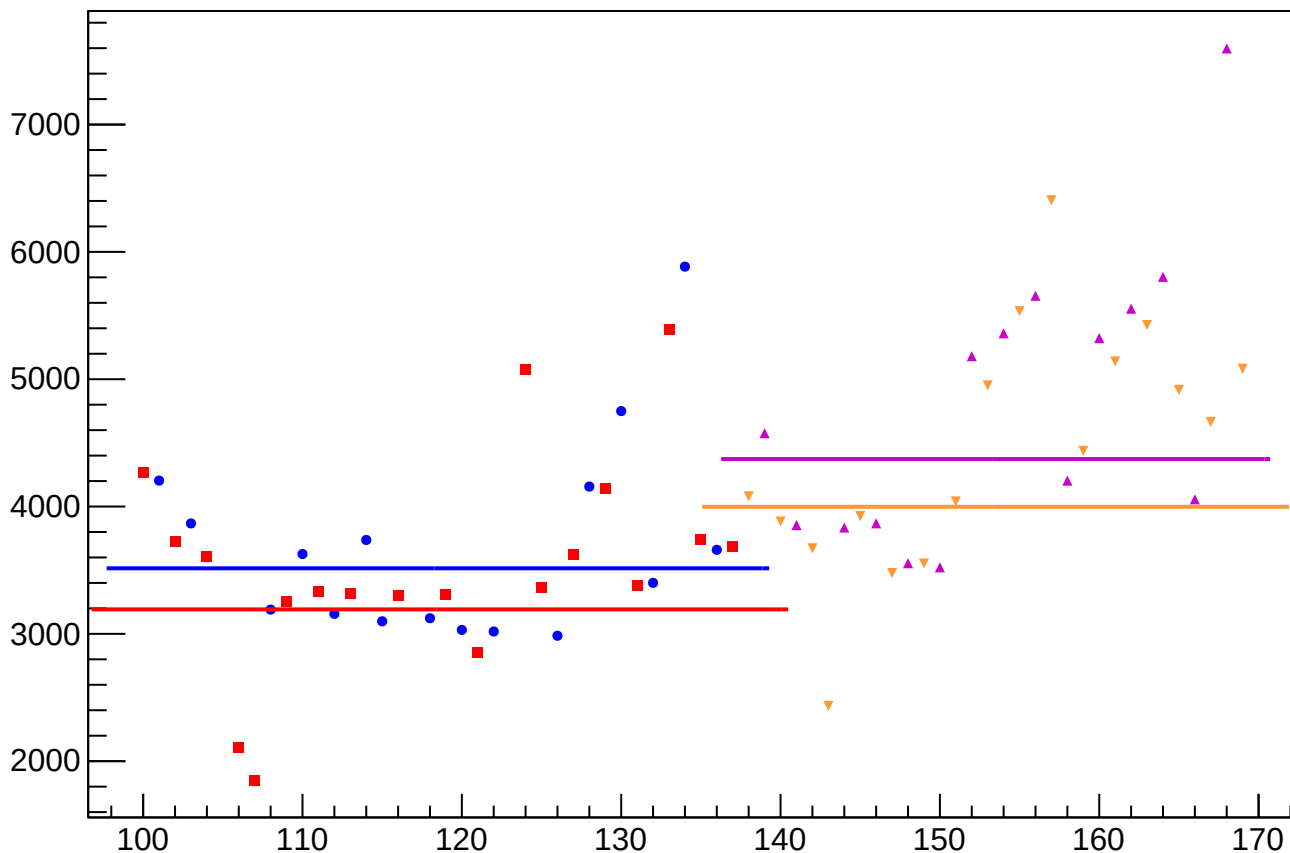
Right: 408.958 ± 890.174 χ^2/NDF : 31.2/34

In: -203.448 ± 918.215 χ^2/NDF : 24.2/30

Out: -259.247 ± 823.215 χ^2/NDF : 37.6/35

All: -234.383 ± 612.945 χ^2/NDF : 61.8/66

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.737+/-0.939 χ^2/NDF : 375082.8/15

Left Out: 3997.986+/-0.800 χ^2/NDF : 1518889.2/16

Right Out: 3192.196+/-0.849 χ^2/NDF : 772497.9/18

Left In: 4373.063+/-0.899 χ^2/NDF : 996366.9/14

Left: 4163.731+/-0.598 χ^2/NDF : 2612384.0/31

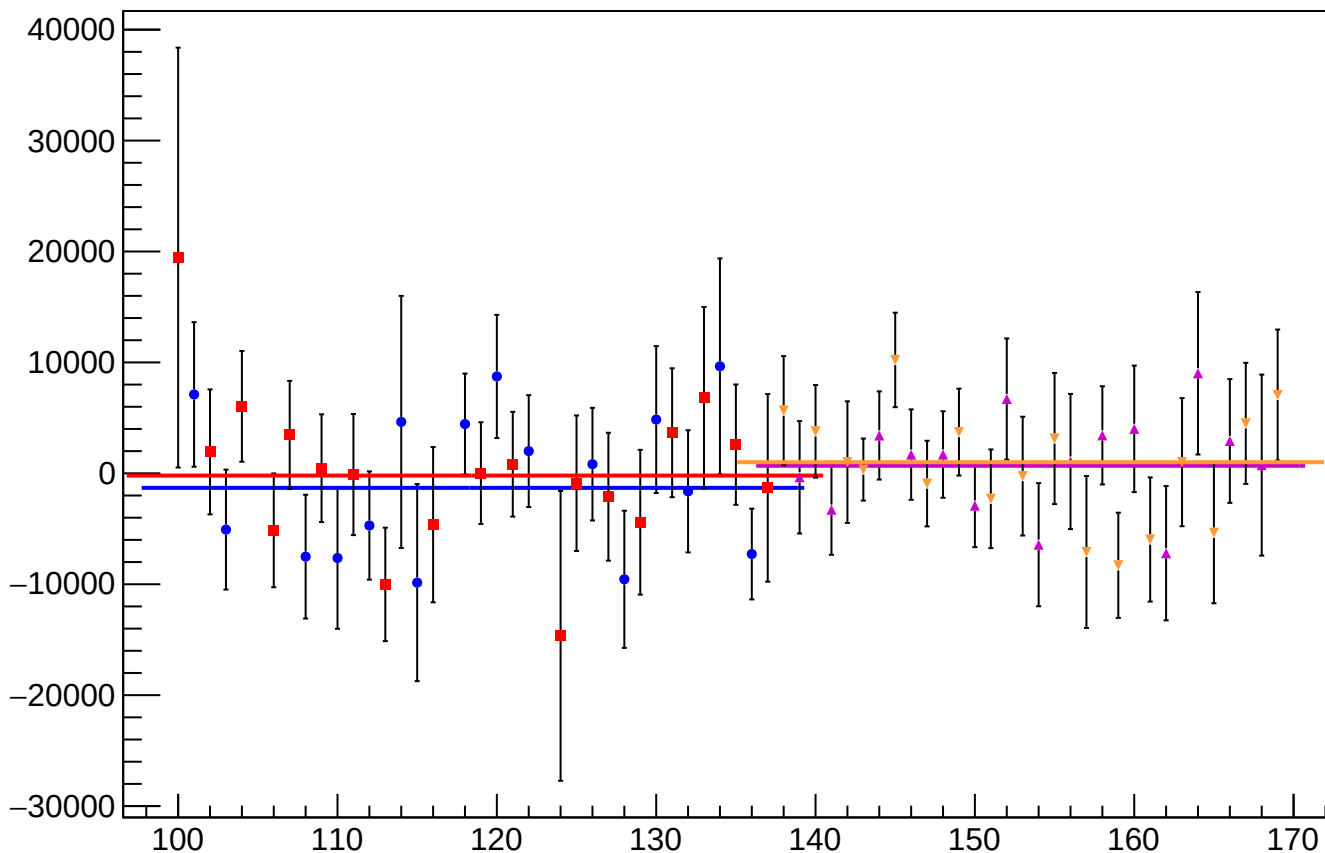
Right: 3337.251+/-0.629 χ^2/NDF : 1212560.4/34

In: 3962.348+/-0.649 χ^2/NDF : 1807546.3/30

Out: 3618.778+/-0.582 χ^2/NDF : 2768788.6/35

All: 3771.876+/-0.433 χ^2/NDF : 4731569.3/66

asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1309.349+/-1431.624 χ^2/NDF : 17.6/15

Left Out: 1002.840+/-1135.187 χ^2/NDF : 16.8/16

Right Out: -201.593+/-1336.062 χ^2/NDF : 11.6/18

Left In: 683.377+/-1262.237 χ^2/NDF : 9.2/14

Left: 859.991+/-844.052 χ^2/NDF : 26.1/31

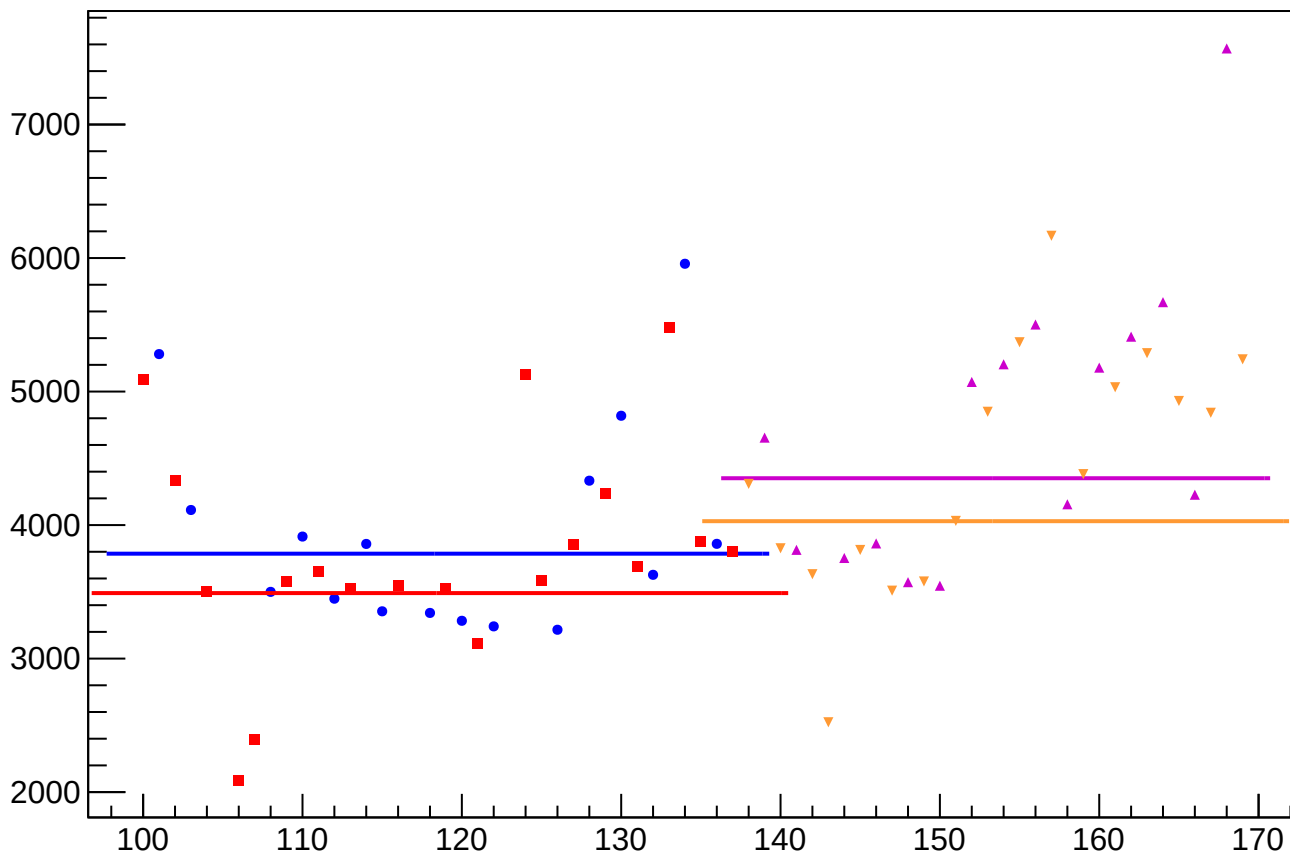
Right: -717.269+/-976.776 χ^2/NDF : 29.5/34

In: -188.179+/-946.788 χ^2/NDF : 27.9/30

Out: 497.883+/-865.092 χ^2/NDF : 28.9/35

All: 185.723+/-638.645 χ^2/NDF : 57.1/66

asym_atl_dd_atr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3785.774+/-1.012 χ^2/NDF : 382992.9/15

Left Out: 4029.140+/-0.803 χ^2/NDF : 1353686.2/16

Right Out: 3490.614+/-0.932 χ^2/NDF : 586715.1/18

Left In: 4350.869+/-0.893 χ^2/NDF : 926013.3/14

Left: 4173.002+/-0.597 χ^2/NDF : 2351534.0/31

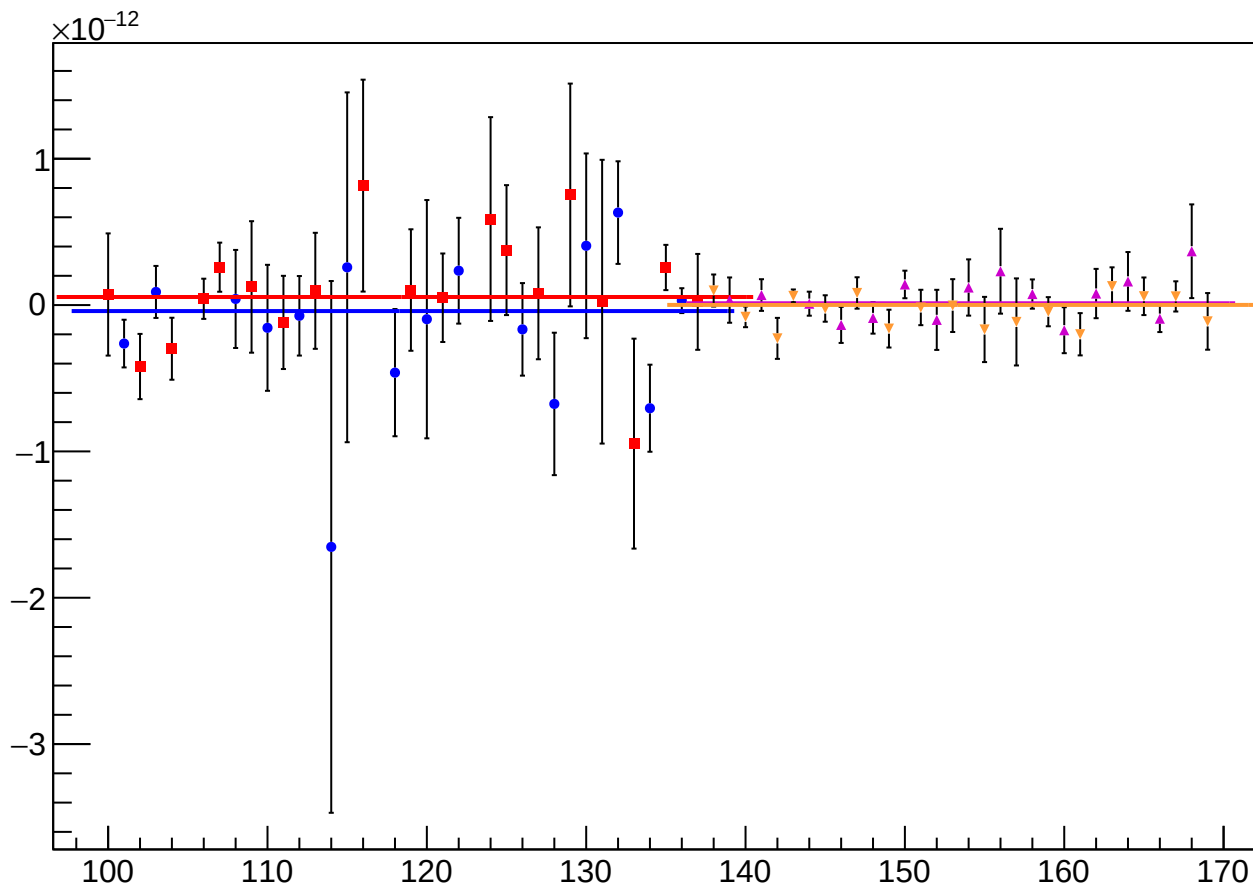
Right: 3626.002+/-0.686 χ^2/NDF : 1015727.1/34

In: 4103.711+/-0.669 χ^2/NDF : 1484331.0/30

Out: 3799.756+/-0.608 χ^2/NDF : 2132120.1/35

All: 3937.183+/-0.450 χ^2/NDF : 3729385.4/66

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 16.6/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 13.7/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 15.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 10.7/14

Left: 0.000 ± 0.000 χ^2/NDF : 24.5/31

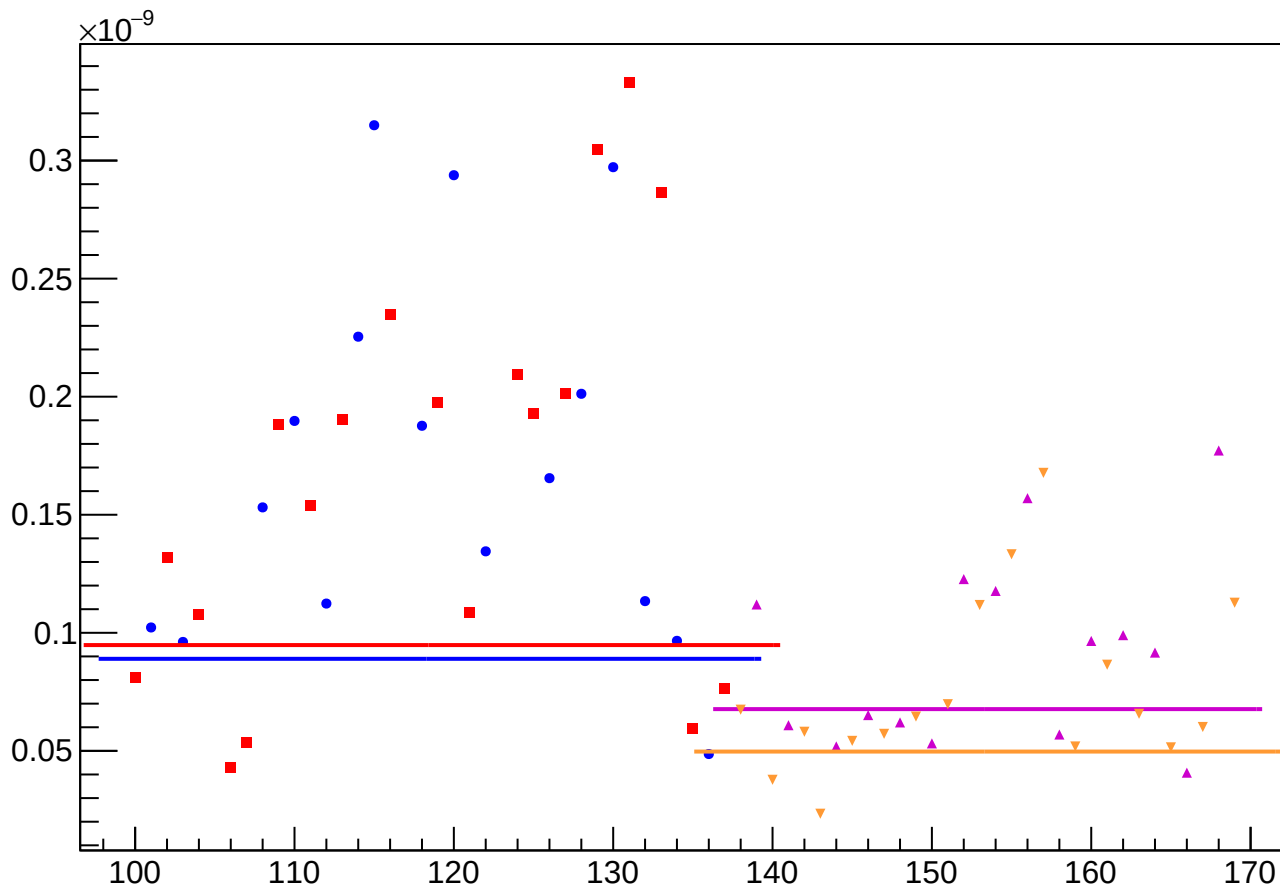
Right: 0.000 ± 0.000 χ^2/NDF : 33.7/34

In: -0.000 ± 0.000 χ^2/NDF : 28.0/30

Out: 0.000 ± 0.000 χ^2/NDF : 30.2/35

All: 0.000 ± 0.000 χ^2/NDF : 58.2/66

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1460718.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2157329.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1734601.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 1364563.6/14

Left: 0.000+/-0.000 χ^2/NDF : 3906551.1/31

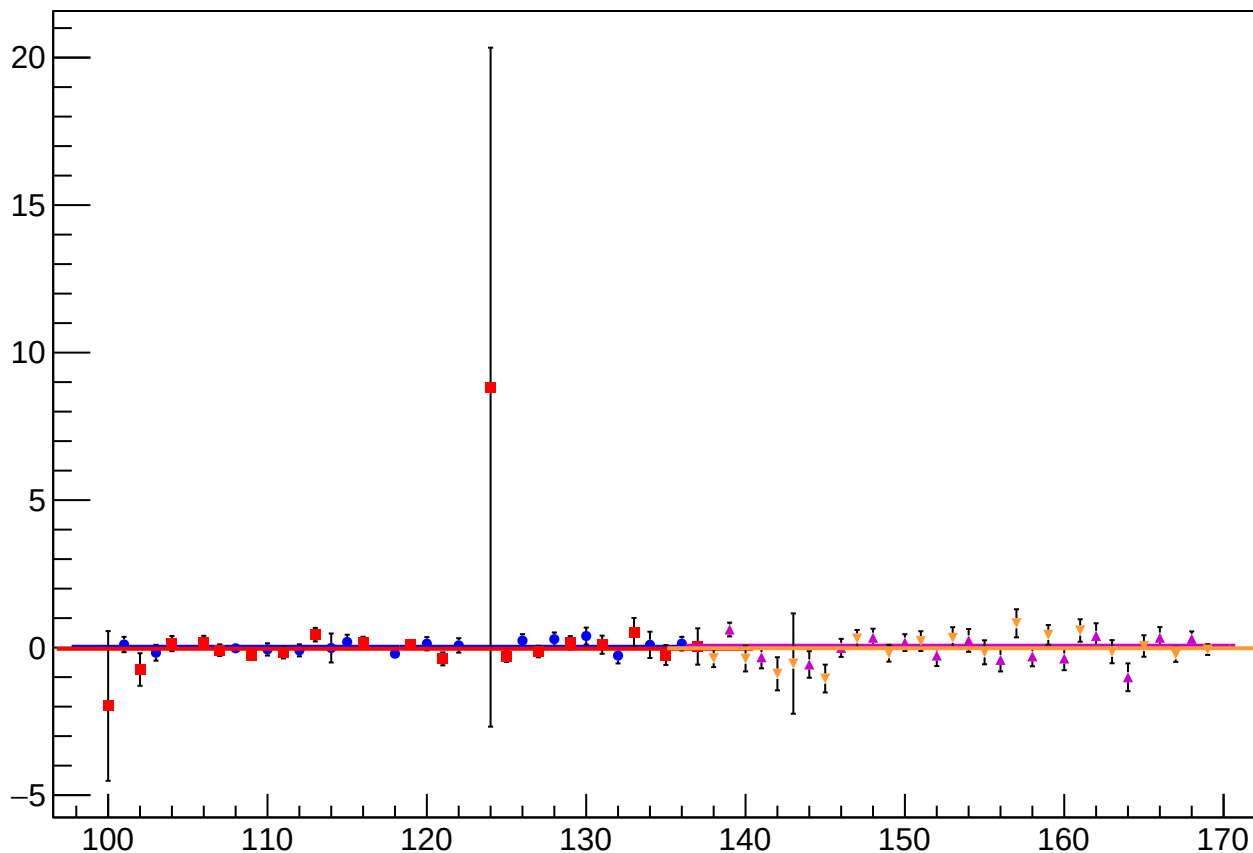
Right: 0.000+/-0.000 χ^2/NDF : 3204262.4/34

In: 0.000+/-0.000 χ^2/NDF : 3024684.6/30

Out: 0.000+/-0.000 χ^2/NDF : 4757392.1/35

All: 0.000+/-0.000 χ^2/NDF : 8217733.0/66

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.021 $\pm$ 0.081 χ^2 /NDF:20.7/16

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.064 $\pm$ 0.086 χ^2 /NDF:21.8/14

Left: 0.019 $\pm$ 0.059 χ^2 /NDF: 43.1/31

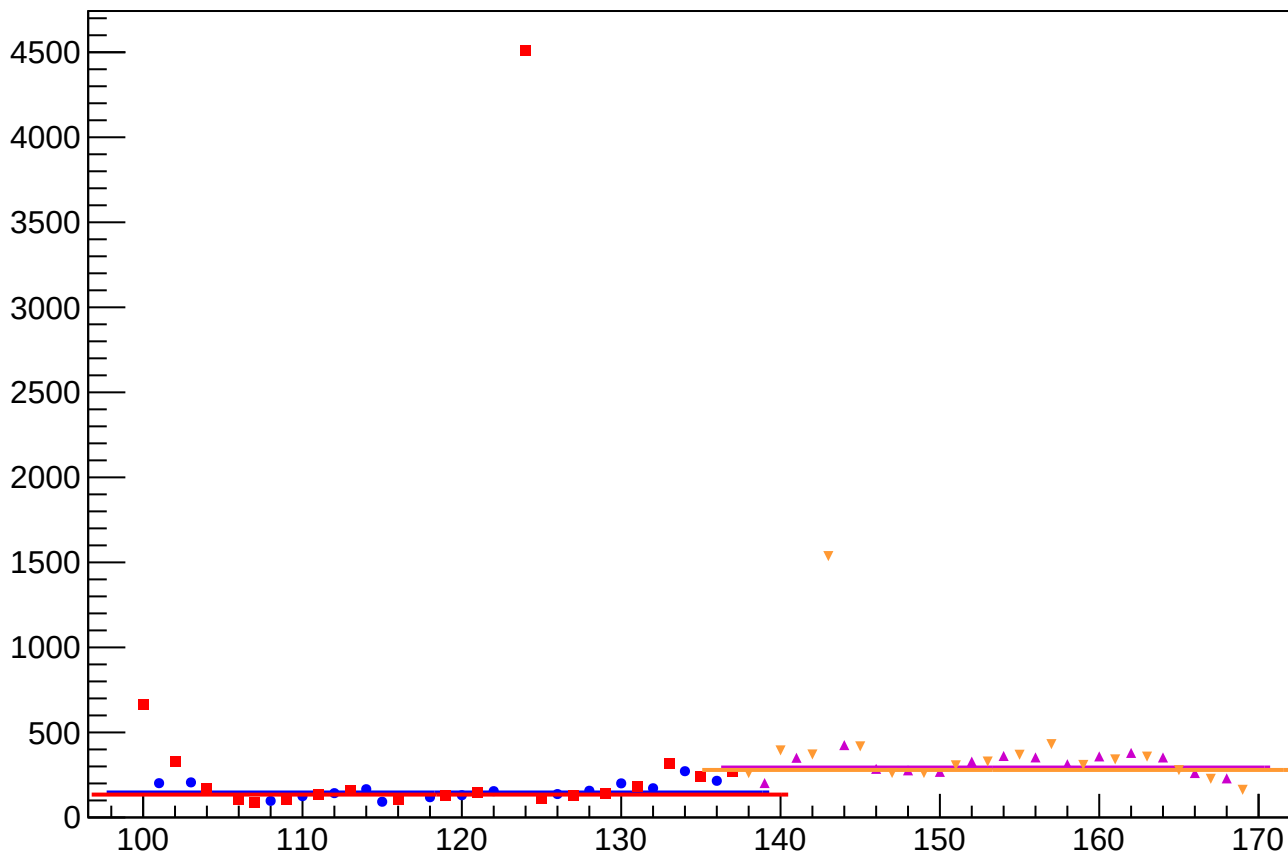
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.039 $\pm$ 0.048 χ^2 /NDF:31.4/30

Out: -0.033 $\pm$ 0.045 χ^2 /NDF:40.7/35

All: 0.001 $\pm$ 0.033 χ^2 /NDF: 73.4/66

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 279.404+/-0.058 χ^2/NDF : 2889224.6/16

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 293.553+/-0.061 χ^2/NDF : 996096.2/14

Left: 286.077+/-0.042 χ^2/NDF : 3913810.3/31

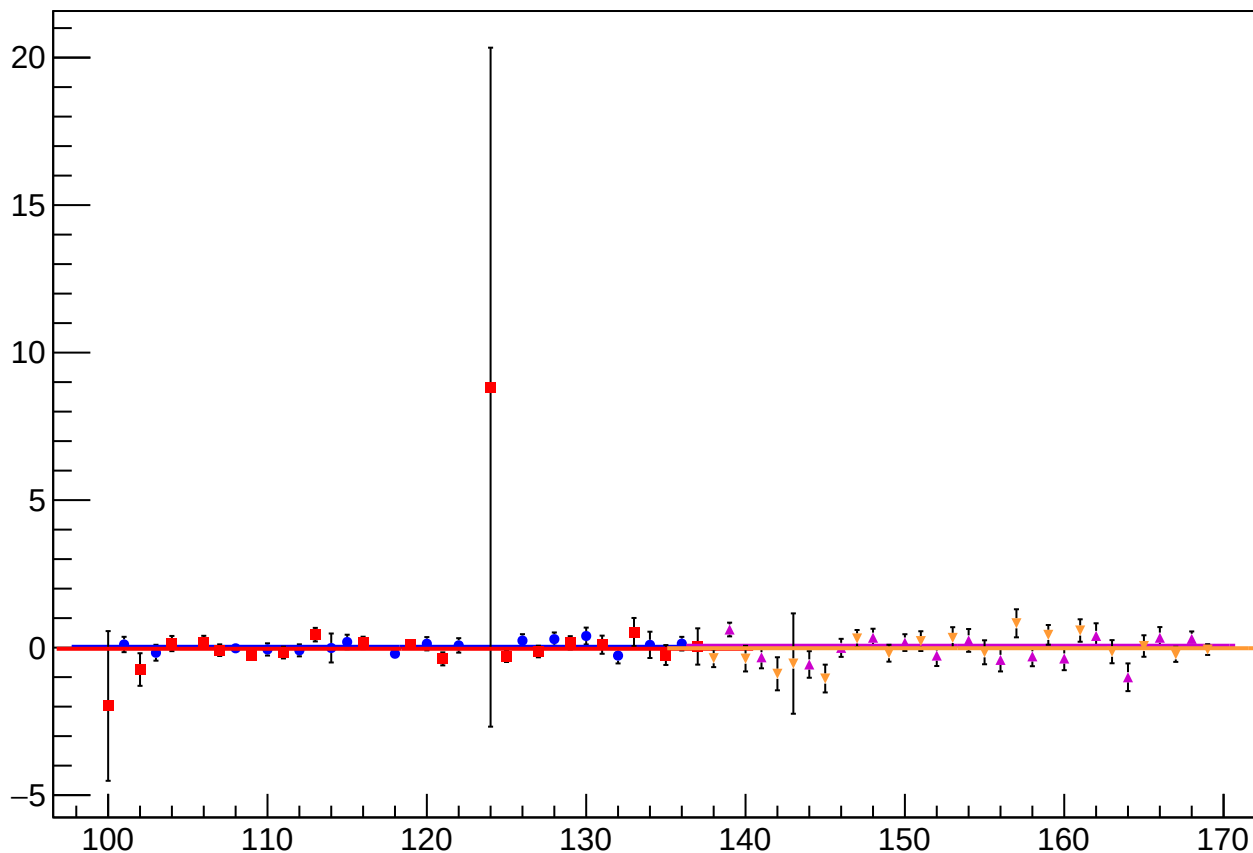
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 192.252+/-0.034 χ^2/NDF : 5998144.8/30

Out: 179.658+/-0.032 χ^2/NDF : 8856368.8/35

All: 185.619+/-0.023 χ^2/NDF : 14927195.3/66

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.021 $\pm$ 0.081 χ^2 /NDF:20.7/16

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.064 $\pm$ 0.086 χ^2 /NDF:21.8/14

Left: 0.019 $\pm$ 0.059 χ^2 /NDF: 43.1/31

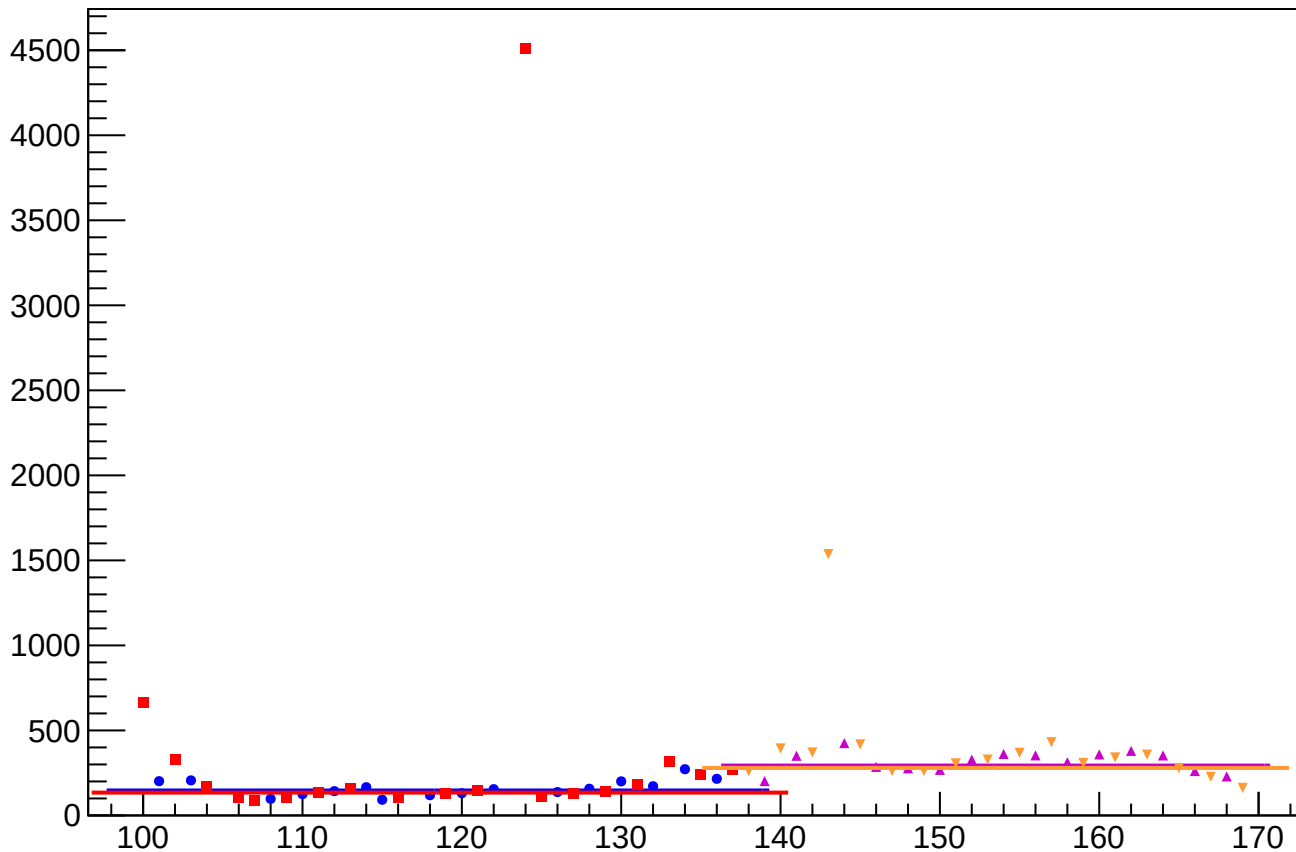
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.039 $\pm$ 0.048 χ^2 /NDF:31.4/30

Out: -0.033 $\pm$ 0.045 χ^2 /NDF:40.7/35

All: 0.001 $\pm$ 0.033 χ^2 /NDF: 73.4/66

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 279.404+/-0.058 χ^2/NDF : 2889224.6/16

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 293.553+/-0.061 χ^2/NDF : 996096.2/14

Left: 286.077+/-0.042 χ^2/NDF : 3913810.3/31

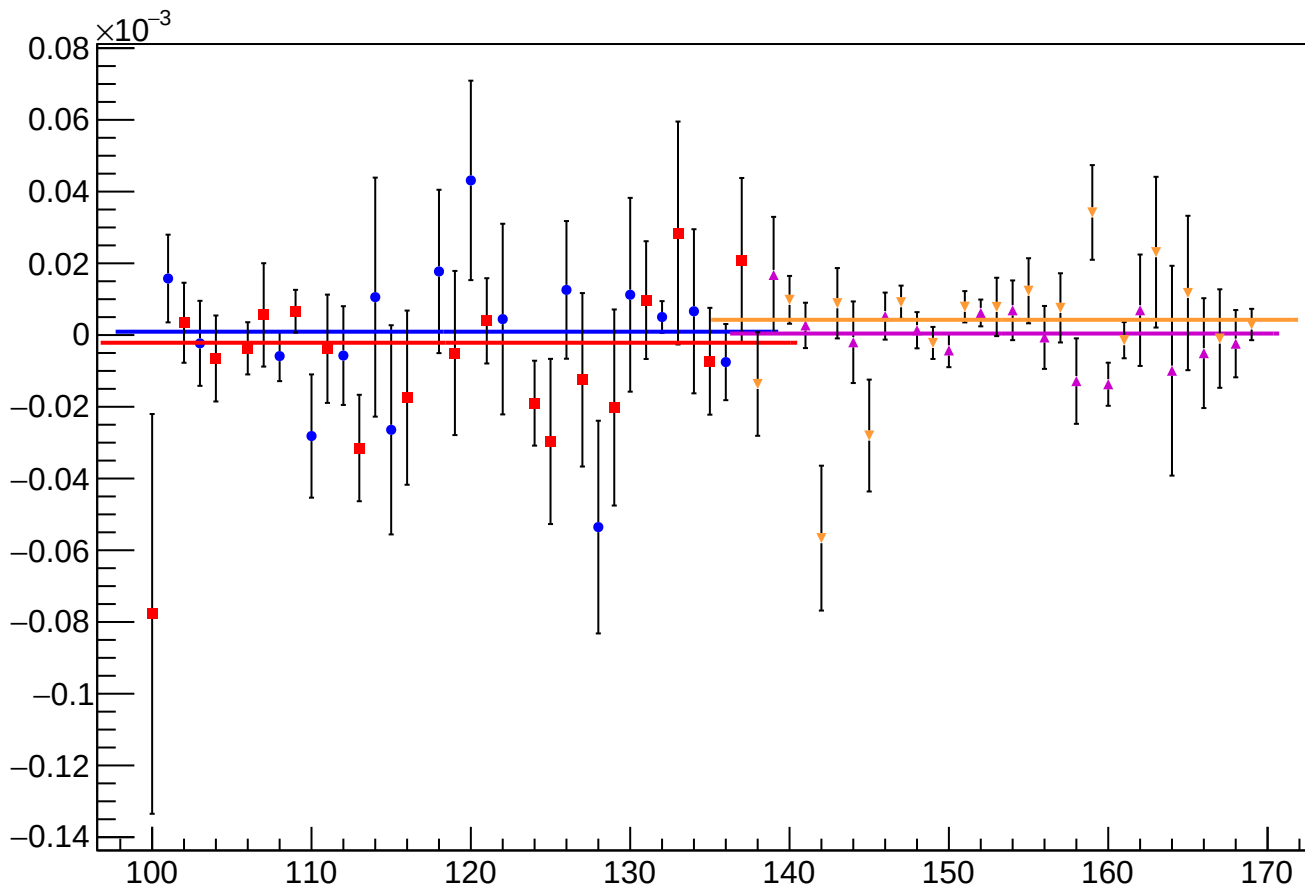
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 192.252+/-0.034 χ^2/NDF : 5998144.8/30

Out: 179.658+/-0.032 χ^2/NDF : 8856368.8/35

All: 185.619+/-0.023 χ^2/NDF : 14927195.3/66

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 14.9/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 28.4/16$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 16.0/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 13.1/14$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 43.8/31$

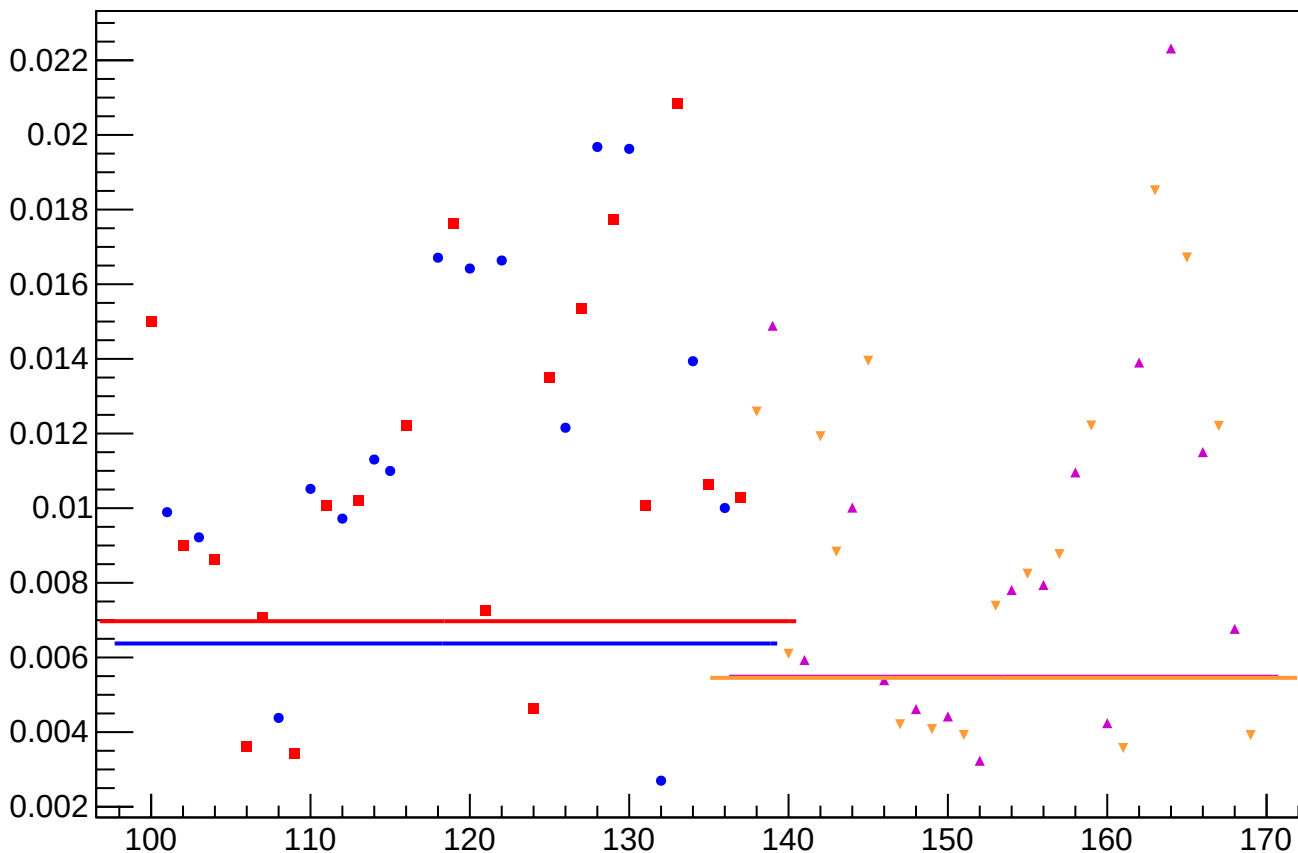
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 31.5/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 28.0/30$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 47.9/35$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 76.8/66$

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000

χ^2/NDF : 4639775.7/15

Left Out: 0.005+/-0.000

χ^2/NDF :5512404.9/16

Right Out: 0.007+/-0.000

χ^2/NDF : 3409939.3/18

Left In: 0.005+/-0.000

χ^2/NDF :4308342.8/14

Left: 0.005+/-0.000

χ^2/NDF : 9821040.0/31

Right: 0.007+/-0.000

χ^2/NDF : 8090163.7/34

In: 0.006+/-0.000

χ^2/NDF :9081038.5/30

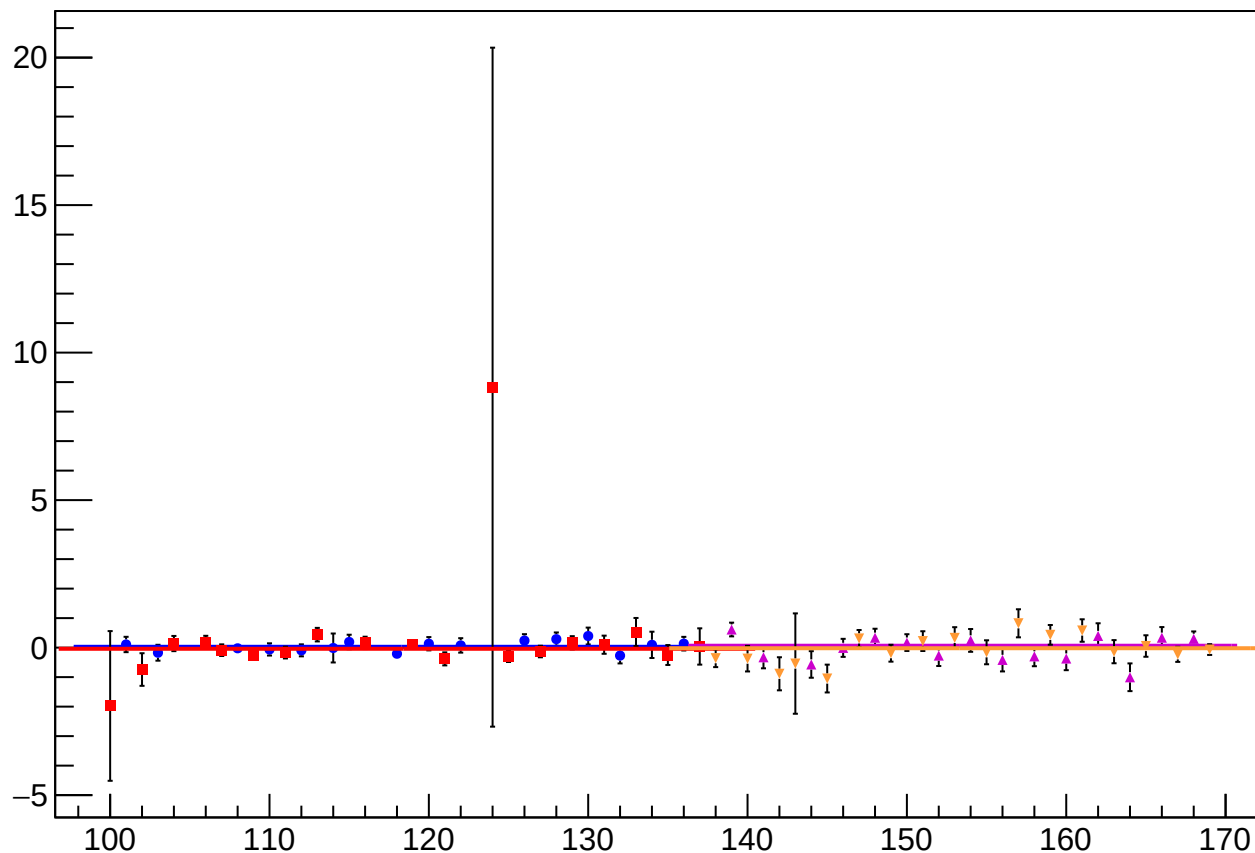
Out: 0.006+/-0.000

χ^2/NDF :9304887.3/35

All: 0.006+/-0.000

χ^2/NDF : 18389622.6/66

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.021 $\pm$ 0.081 χ^2 /NDF:20.7/16

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.064 $\pm$ 0.086 χ^2 /NDF:21.8/14

Left: 0.019 $\pm$ 0.059 χ^2 /NDF: 43.1/31

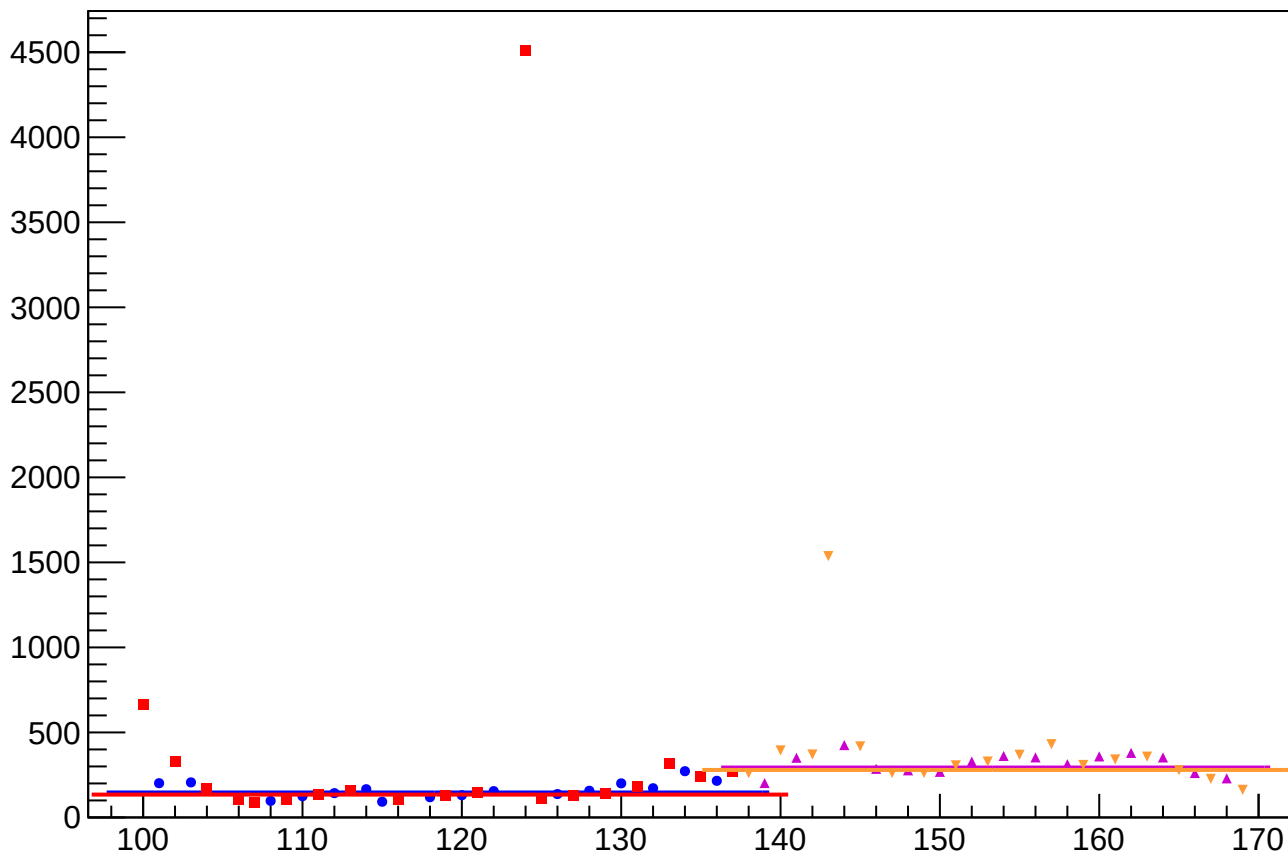
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.039 $\pm$ 0.048 χ^2 /NDF:31.4/30

Out: -0.033 $\pm$ 0.045 χ^2 /NDF:40.7/35

All: 0.001 $\pm$ 0.033 χ^2 /NDF: 73.4/66

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998646.8/15

Left Out: 279.406+/-0.058 χ^2/NDF : 2889306.4/16

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 293.557+/-0.061 χ^2/NDF : 996077.4/14

Left: 286.081+/-0.042 χ^2/NDF : 3913882.0/31

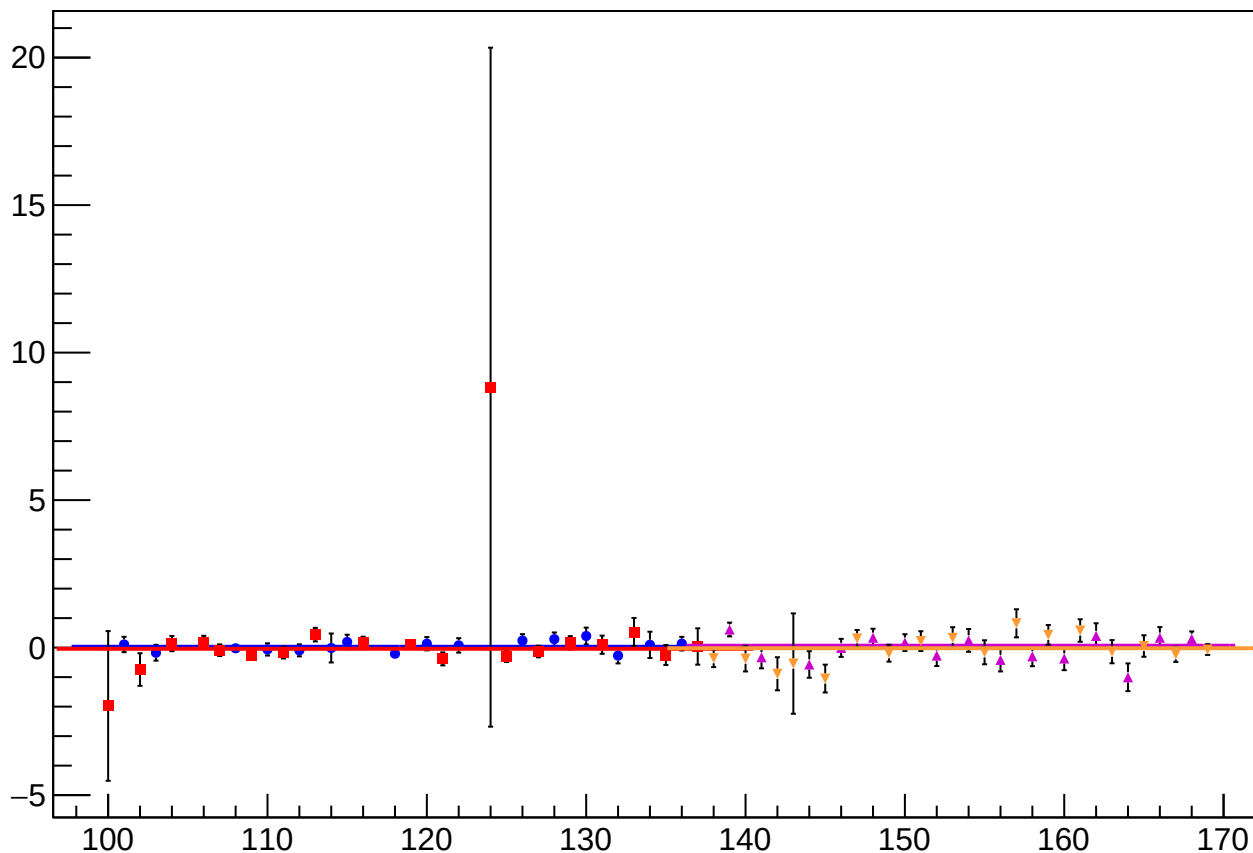
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 192.253+/-0.034 χ^2/NDF : 5998245.9/30

Out: 179.660+/-0.032 χ^2/NDF : 8856366.4/35

All: 185.620+/-0.023 χ^2/NDF : 14927280.5/66

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 $\chi^2/\text{NDF}: 9.4/15$

Left Out: -0.021 ± 0.081 $\chi^2/\text{NDF}: 20.7/16$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.064 ± 0.086 $\chi^2/\text{NDF}: 21.8/14$

Left: 0.019 ± 0.059 $\chi^2/\text{NDF}: 43.1/31$

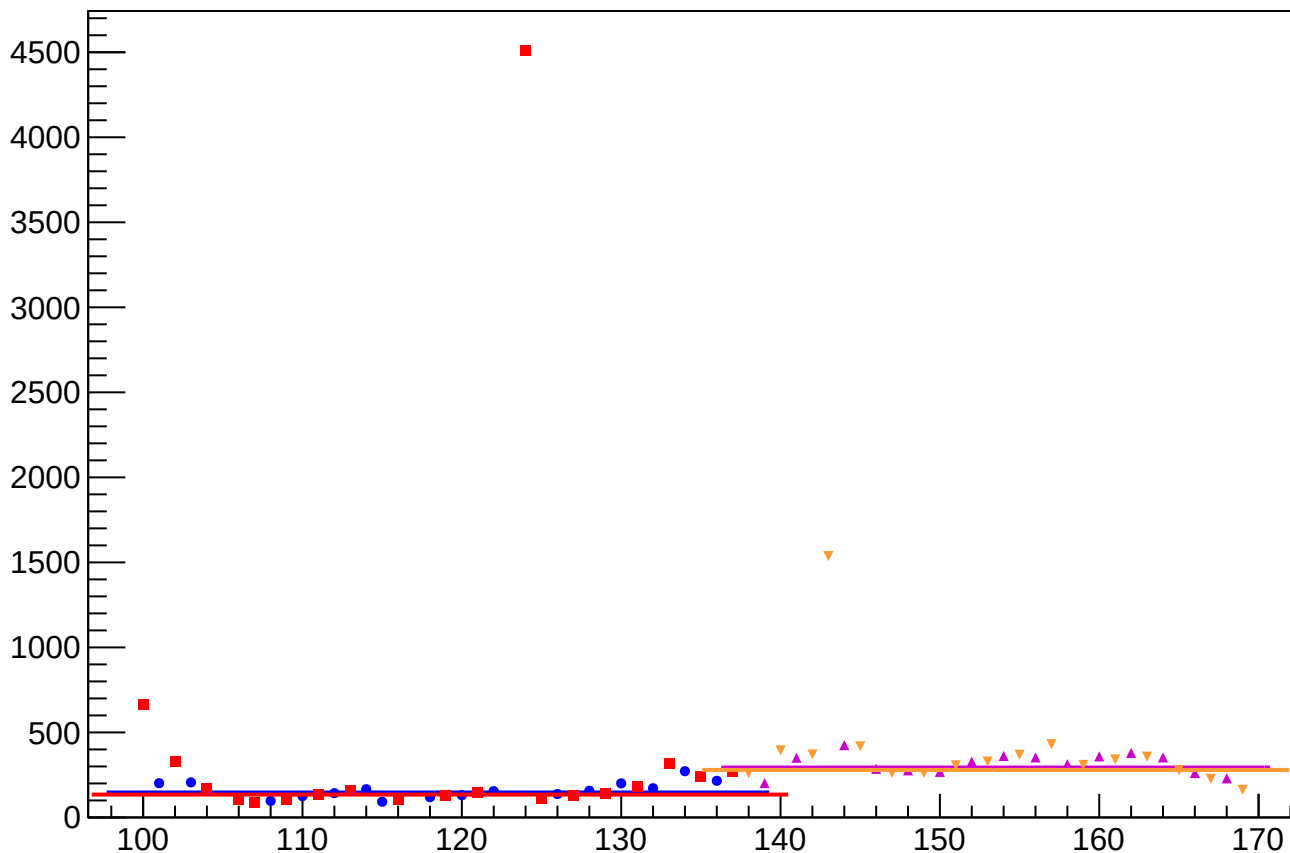
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.039 ± 0.048 $\chi^2/\text{NDF}: 31.4/30$

Out: -0.033 ± 0.045 $\chi^2/\text{NDF}: 40.7/35$

All: 0.001 ± 0.033 $\chi^2/\text{NDF}: 73.4/66$

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829 ± 0.041 $\chi^2/\text{NDF}: 998646.8/15$

Left Out: 279.406 ± 0.058 $\chi^2/\text{NDF}: 2889306.4/16$

Right Out: 134.506 ± 0.039 $\chi^2/\text{NDF}: 1606310.4/18$

Left In: 293.557 ± 0.061 $\chi^2/\text{NDF}: 996077.4/14$

Left: 286.081 ± 0.042 $\chi^2/\text{NDF}: 3913882.0/31$

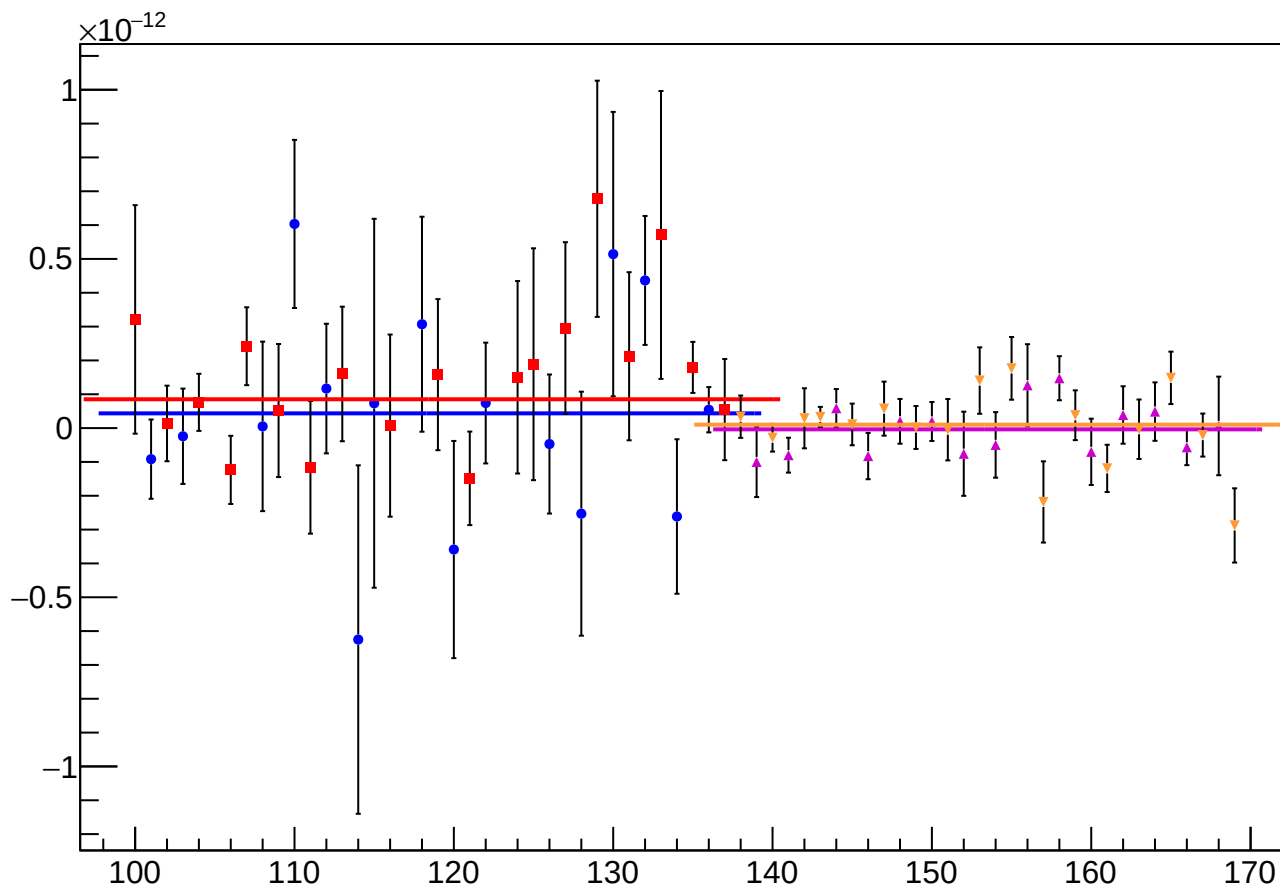
Right: 140.348 ± 0.028 $\chi^2/\text{NDF}: 2652938.4/34$

In: 192.253 ± 0.034 $\chi^2/\text{NDF}: 5998245.9/30$

Out: 179.660 ± 0.032 $\chi^2/\text{NDF}: 8856366.4/35$

All: 185.620 ± 0.023 $\chi^2/\text{NDF}: 14927280.5/66$

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 25.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 15.1/14

Left: 0.000+/-0.000 χ^2/NDF : 40.5/31

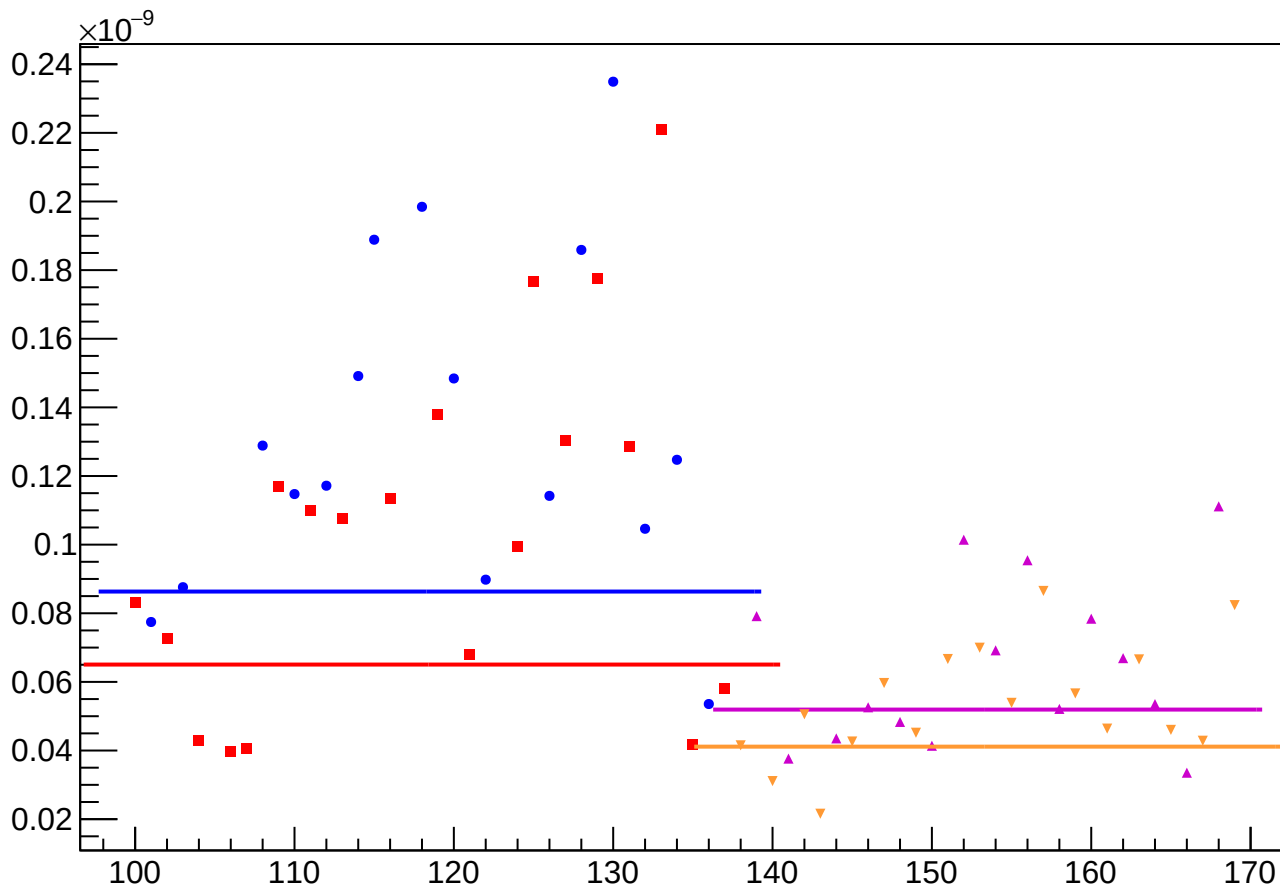
Right: 0.000+/-0.000 χ^2/NDF : 37.8/34

In: 0.000+/-0.000 χ^2/NDF : 35.1/30

Out: 0.000+/-0.000 χ^2/NDF : 47.3/35

All: 0.000+/-0.000 χ^2/NDF : 83.0/66

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1565662.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2344358.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2158861.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 1827017.2/14

Left: 0.000+/-0.000 χ^2/NDF : 4562129.0/31

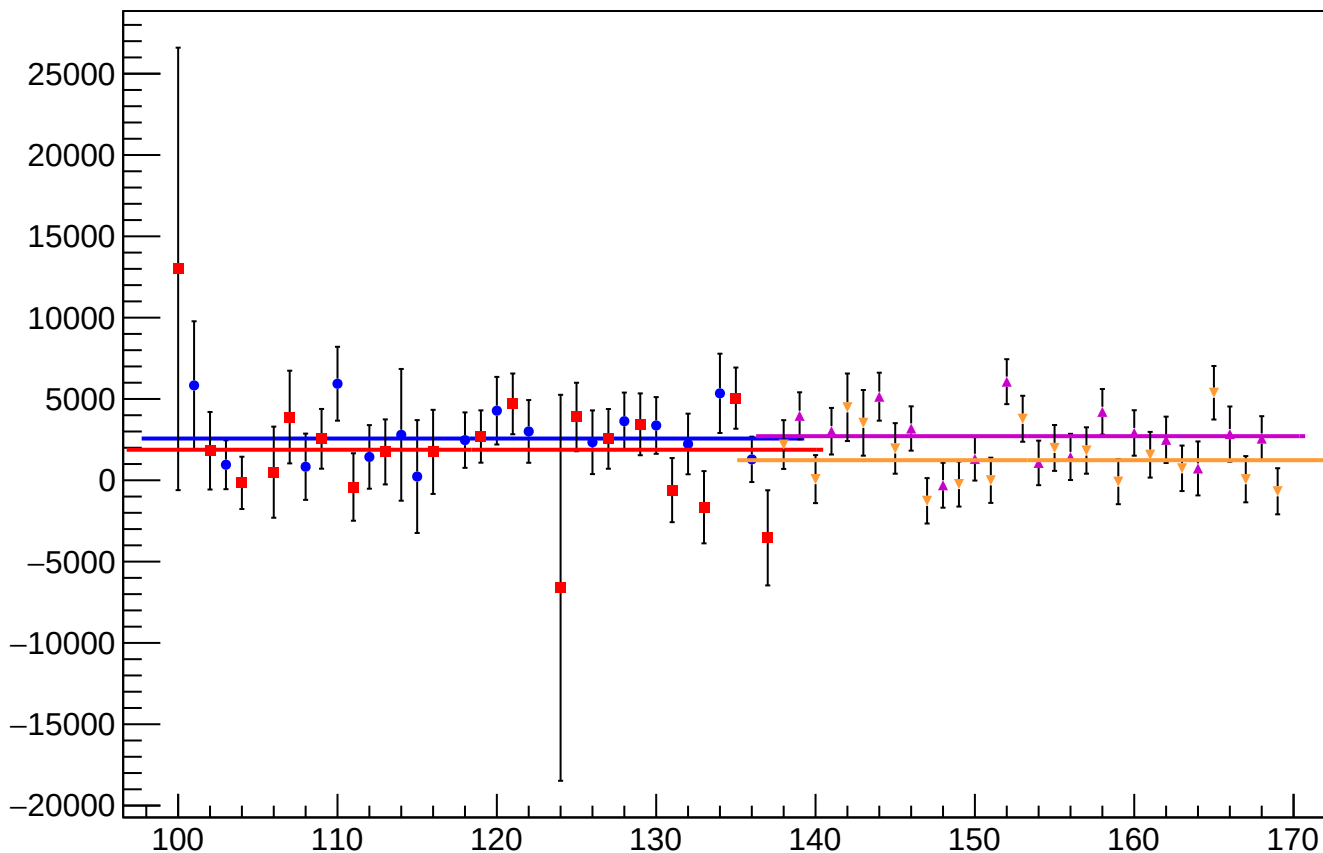
Right: 0.000+/-0.000 χ^2/NDF : 4026528.8/34

In: 0.000+/-0.000 χ^2/NDF : 4475062.6/30

Out: 0.000+/-0.000 χ^2/NDF : 5315337.7/35

All: 0.000+/-0.000 χ^2/NDF : 10411236.4/66

reg_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2567.460+/-495.364 χ^2/NDF : 9.0/15

Left Out: 1235.936+/-359.399 χ^2/NDF :23.8/16

Right Out: 1878.030+/-494.719 χ^2/NDF : 19.5/18

Left In: 2712.514+/-368.744 χ^2/NDF :20.2/14

Left: 1955.277+/-257.374 χ^2/NDF : 52.2/31

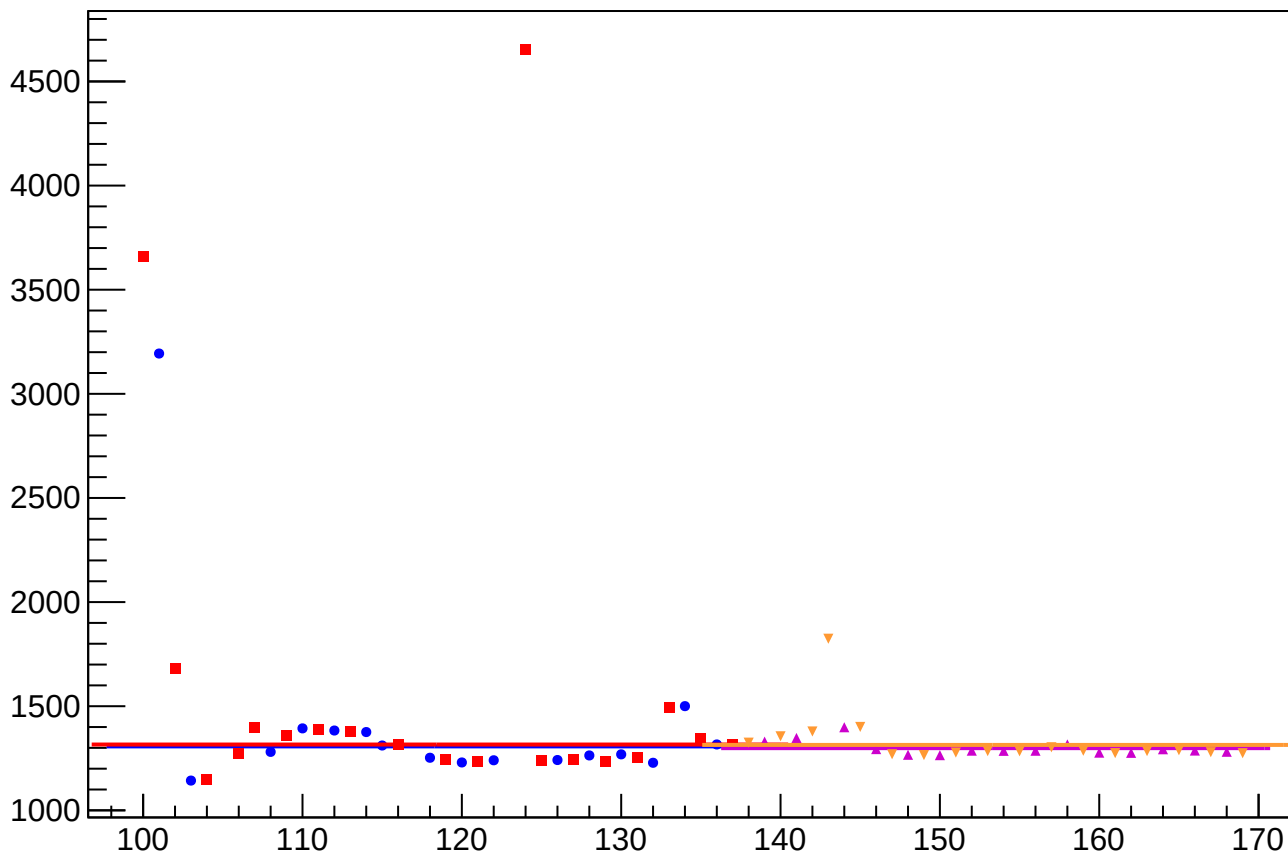
Right: 2222.296+/-350.047 χ^2/NDF : 29.6/34

In: 2660.795+/-295.790 χ^2/NDF :29.4/30

Out: 1457.745+/-290.770 χ^2/NDF :44.4/35

All: 2048.975+/-207.357 χ^2/NDF : 82.2/66

reg_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1307.068 $\pm$ 0.350 χ^2 /NDF: 516249.0/15

Left Out: 1314.125 $\pm$ 0.254 χ^2 /NDF:151820.8/16

Right Out: 1315.999 $\pm$ 0.349 χ^2 /NDF: 326420.0/18

Left In: 1298.622 $\pm$ 0.261 χ^2 /NDF:17096.5/14

Left: 1306.572 $\pm$ 0.182 χ^2 /NDF: 170730.4/31

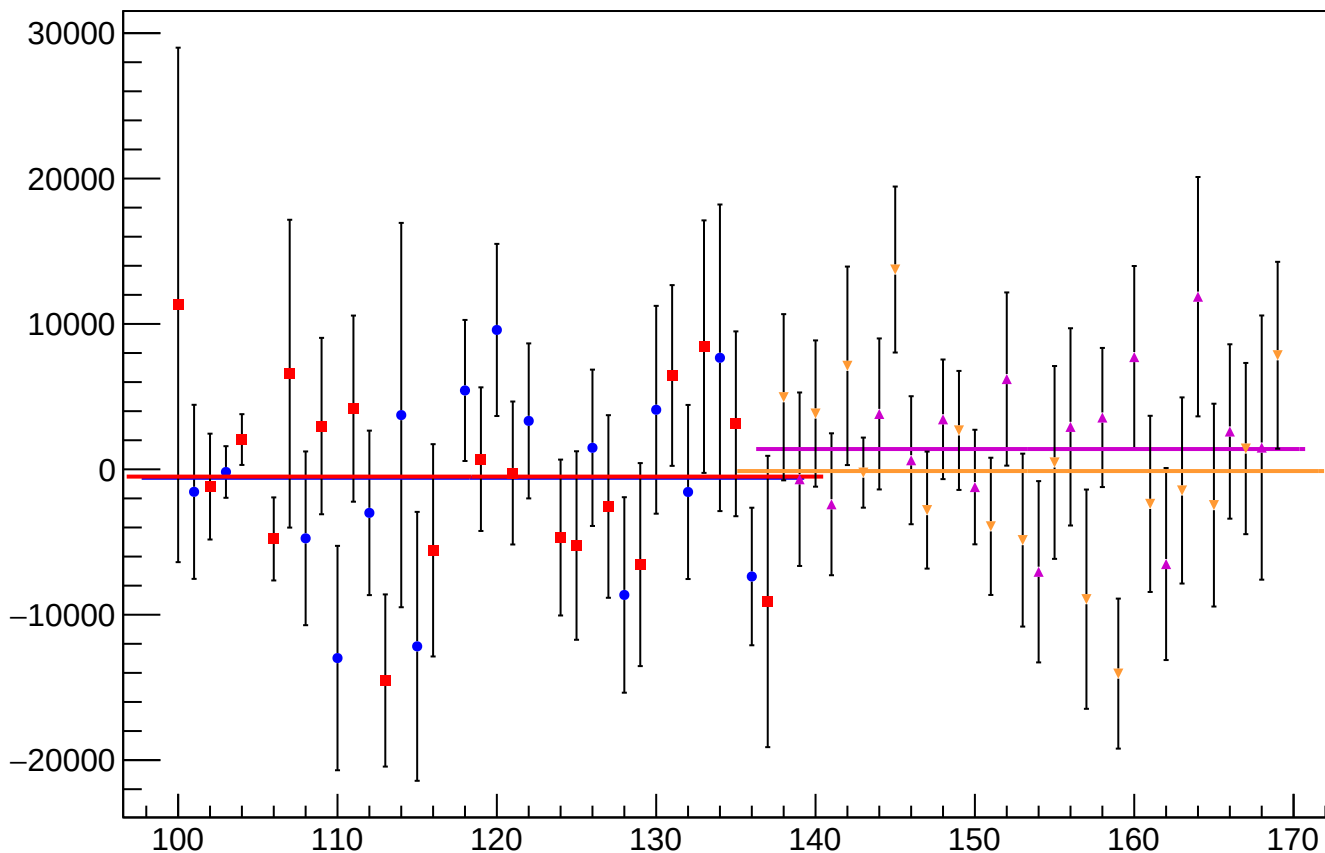
Right: 1311.551 $\pm$ 0.247 χ^2 /NDF: 842995.4/34

In: 1301.633 $\pm$ 0.209 χ^2 /NDF:533719.7/30

Out: 1314.775 $\pm$ 0.205 χ^2 /NDF:478259.7/35

All: 1308.322 $\pm$ 0.147 χ^2 /NDF: 1013988.9/60

asym_atl_avg_atr_avg_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -581.790+/-1192.862 χ^2/NDF : 14.7/15

Left Out: -118.924+/-1201.986 χ^2/NDF : 21.2/16

Right Out: -500.098+/-1055.434 χ^2/NDF : 17.7/18

Left In: 1395.899+/-1407.600 χ^2/NDF : 8.5/14

Left: 519.868+/-914.067 χ^2/NDF : 30.4/31

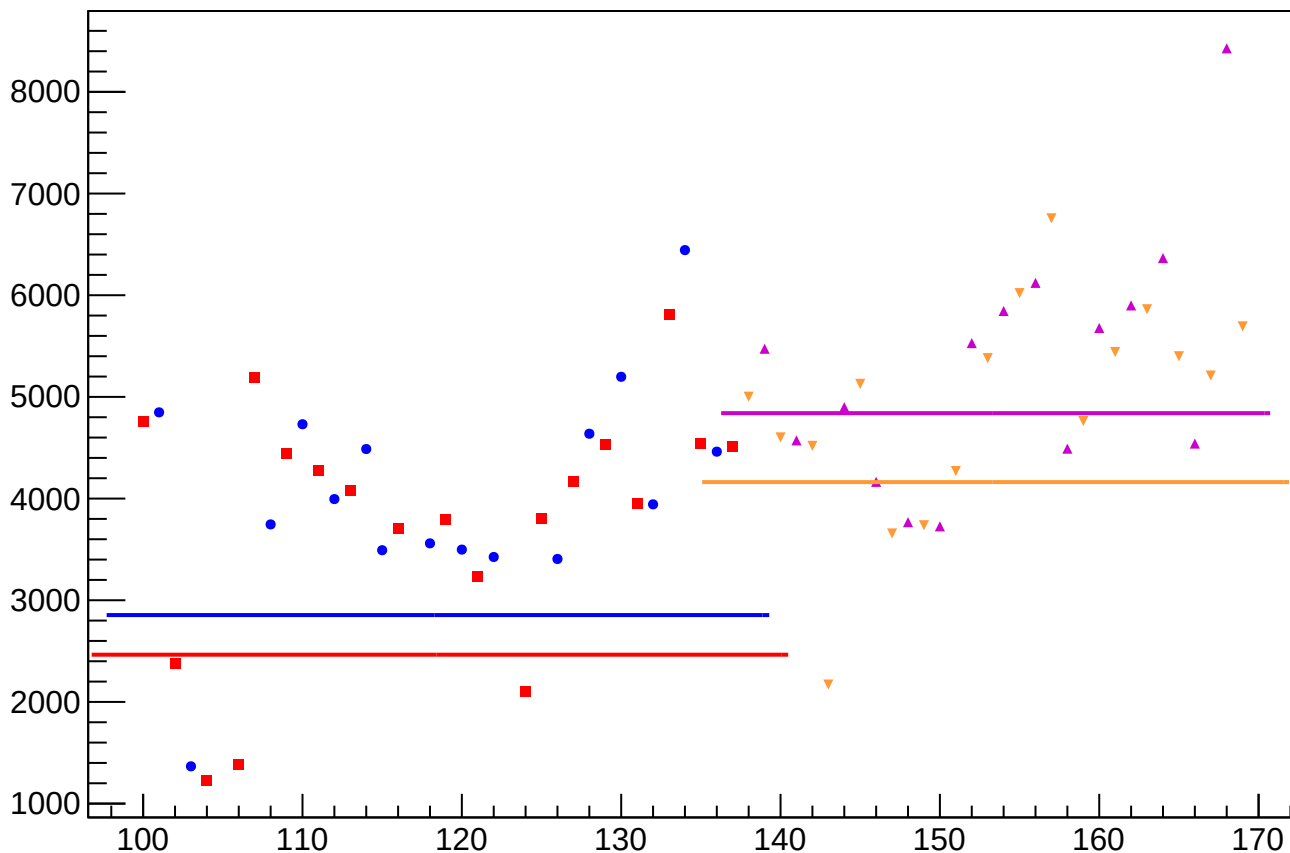
Right: -535.969+/-790.447 χ^2/NDF : 32.4/34

In: 244.849+/-910.035 χ^2/NDF : 24.4/30

Out: -334.153+/-793.085 χ^2/NDF : 39.0/35

All: -84.225+/-597.897 χ^2/NDF : 63.6/66

asym_atl_avg_atr_avg_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 2854.300+/-0.843 χ^2/NDF : 2904822.2/15

Left Out: 4162.094+/-0.850 χ^2/NDF : 2515108.7/16

Right Out: 2464.593+/-0.746 χ^2/NDF : 3355947.0/18

Left In: 4840.109+/-0.995 χ^2/NDF : 1005070.0/14

Left: 4448.009+/-0.646 χ^2/NDF : 3788533.0/31

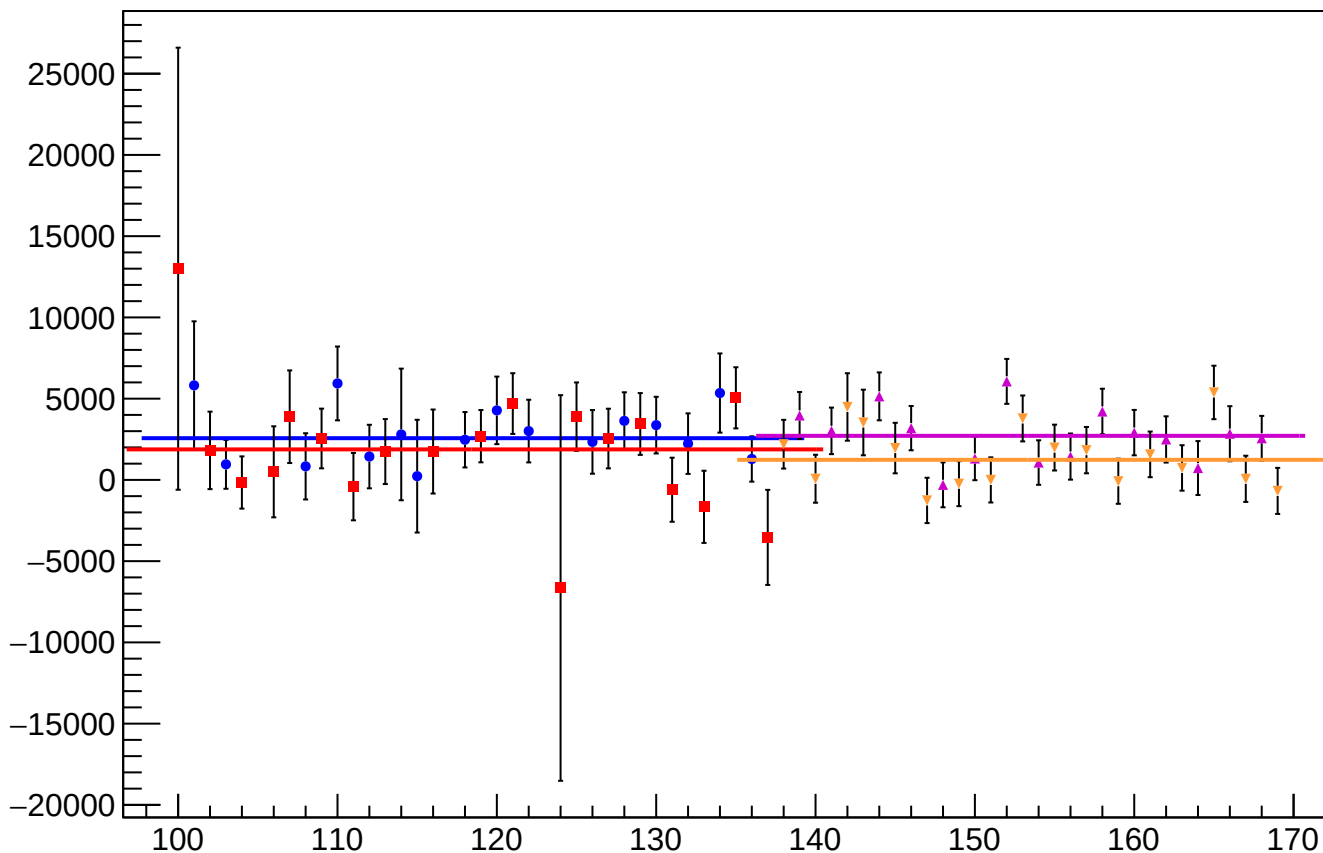
Right: 2635.714+/-0.559 χ^2/NDF : 6380500.9/34

In: 3684.333+/-0.643 χ^2/NDF : 6226662.3/30

Out: 3203.604+/-0.561 χ^2/NDF : 8123367.5/35

All: 3411.112+/-0.423 χ^2/NDF : 14667226.1/6

cor_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2567.180 $\pm$ 495.364 χ^2 /NDF: 9.0/15

Left Out: 1235.848 $\pm$ 359.399 χ^2 /NDF:23.8/16

Right Out: 1877.774 $\pm$ 494.719 χ^2 /NDF: 19.5/18

Left In: 2712.574 $\pm$ 368.744 χ^2 /NDF:20.2/14

Left: 1955.262 $\pm$ 257.374 χ^2 /NDF: 52.2/31

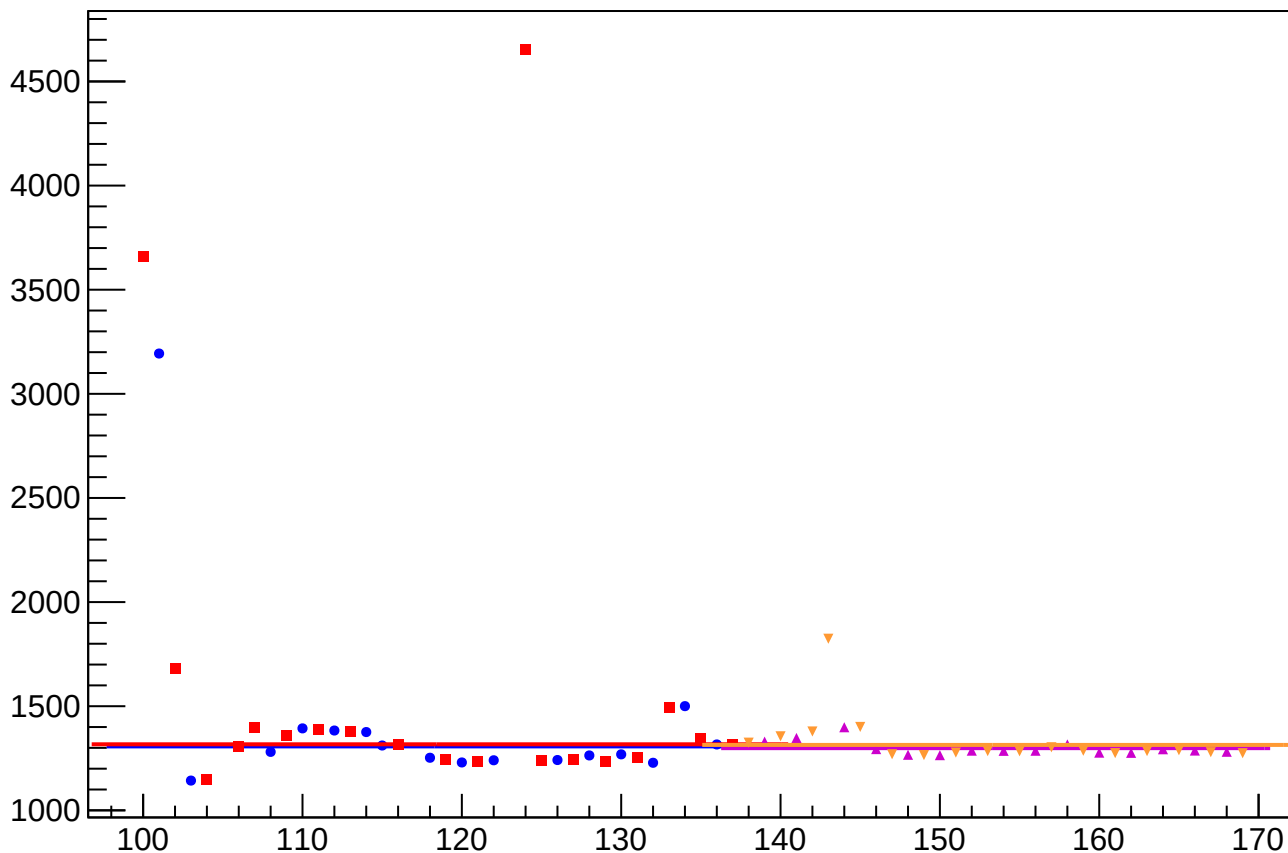
Right: 2222.028 $\pm$ 350.047 χ^2 /NDF: 29.6/34

In: 2660.734 $\pm$ 295.790 χ^2 /NDF:29.3/30

Out: 1457.599 $\pm$ 290.770 χ^2 /NDF:44.4/35

All: 2048.870 $\pm$ 207.357 χ^2 /NDF: 82.2/66

cor_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1307.068+/-0.350 χ^2/NDF : 516250.6/15

Left Out: 1314.125+/-0.254 χ^2/NDF :151820.8/16

Right Out: 1317.128+/-0.349 χ^2/NDF : 325926.8/18

Left In: 1298.622+/-0.261 χ^2/NDF :17096.5/14

Left: 1306.572+/-0.182 χ^2/NDF : 170730.4/31

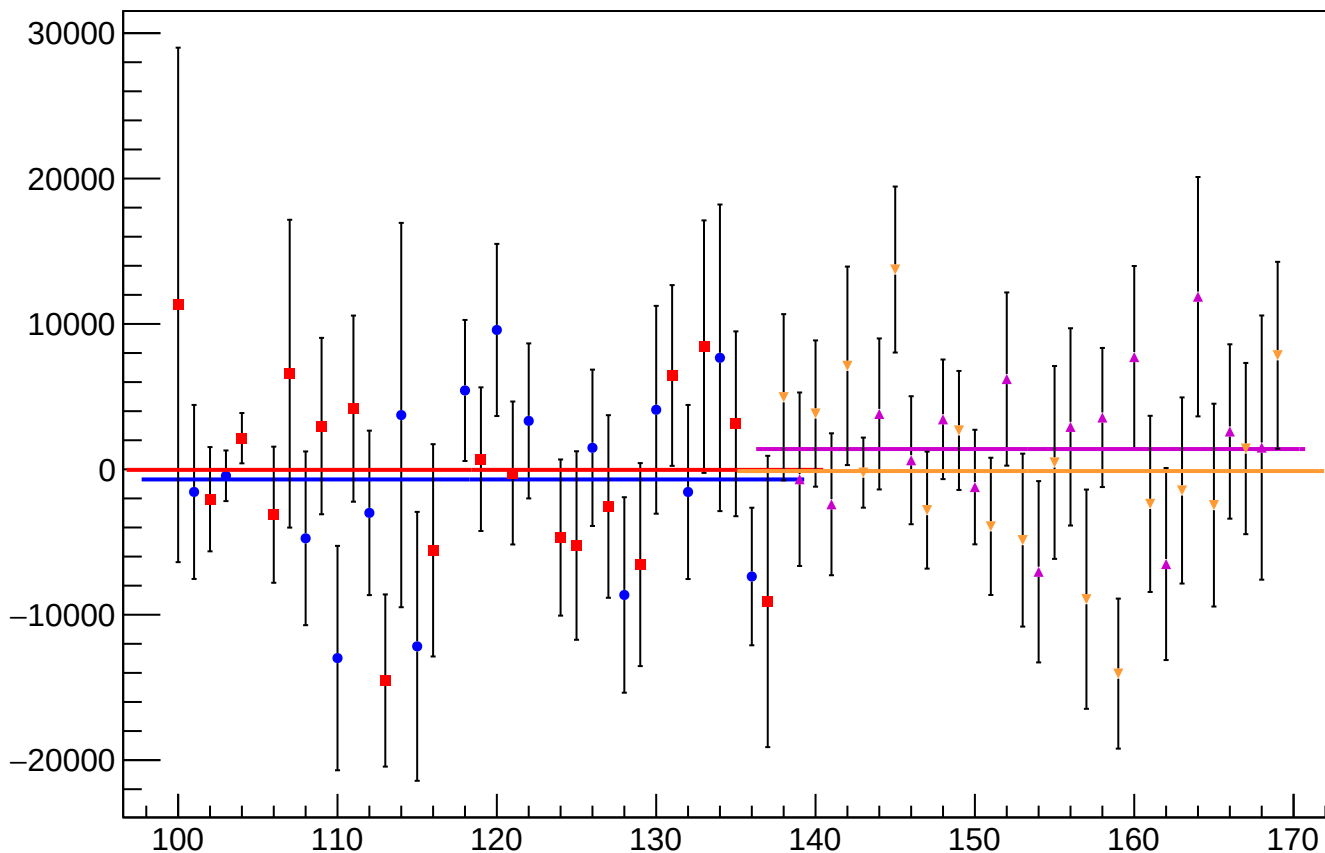
Right: 1312.114+/-0.247 χ^2/NDF : 842591.1/34

In: 1301.633+/-0.209 χ^2/NDF :533721.2/30

Out: 1315.165+/-0.205 χ^2/NDF :477795.9/35

All: 1308.519+/-0.147 χ^2/NDF : 1013647.3/66

asym_atl_avg_atr_avg_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -695.249+/-1182.433 χ^2/NDF : 14.7/15

Left Out: -118.943+/-1201.982 χ^2/NDF : 21.2/16

Right Out: -36.115+/-1098.207 χ^2/NDF : 15.9/18

Left In: 1395.983+/-1407.600 χ^2/NDF : 8.5/14

Left: 519.890+/-914.065 χ^2/NDF : 30.4/31

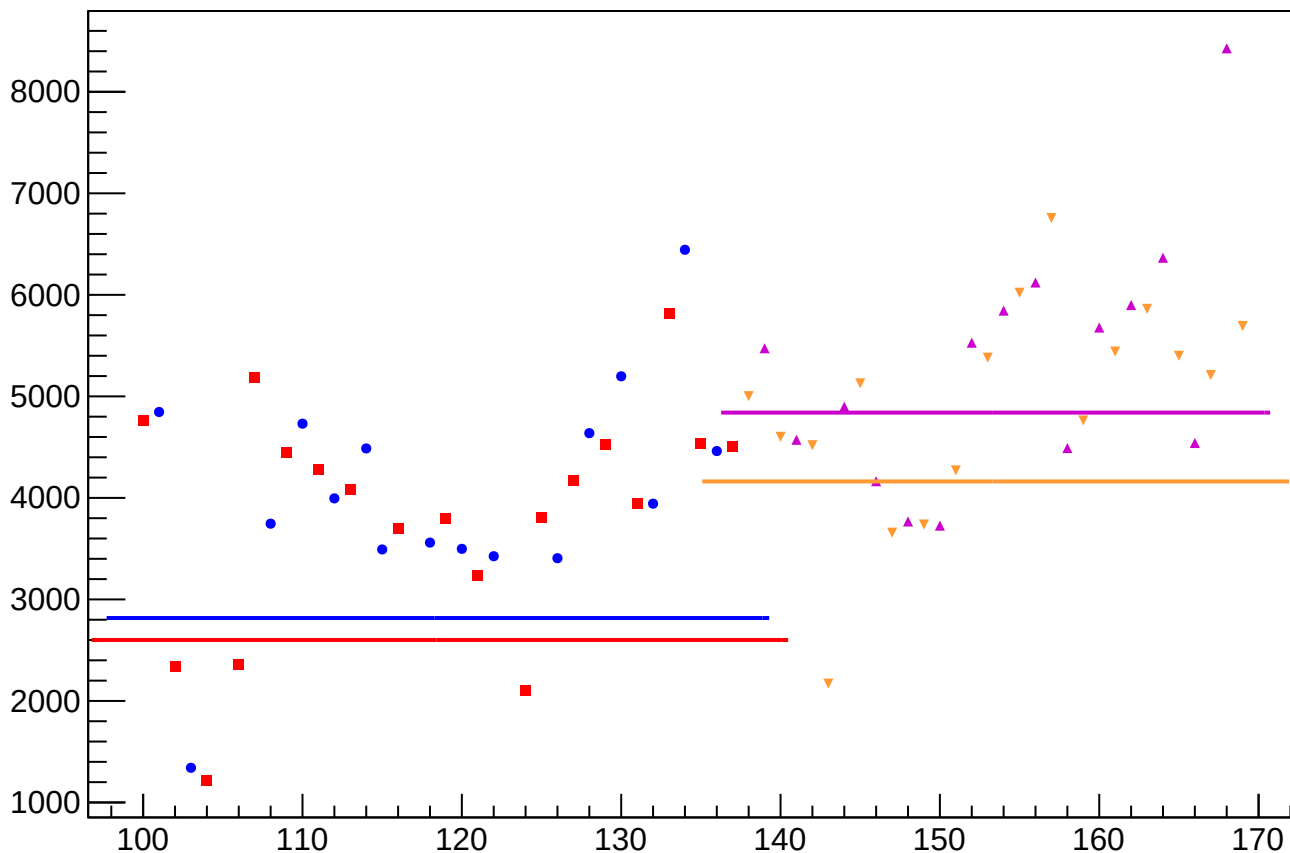
Right: -341.373+/-804.680 χ^2/NDF : 30.8/34

In: 169.927+/-905.379 χ^2/NDF : 24.5/30

Out: -73.799+/-810.759 χ^2/NDF : 37.1/35

All: 34.667+/-603.985 χ^2/NDF : 61.7/66

asym_atl_avg_atr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 2816.784+/-0.836 χ^2/NDF : 3007570.0/15

Left Out: 4162.071+/-0.850 χ^2/NDF : 2515185.1/16

Right Out: 2600.524+/-0.777 χ^2/NDF : 3080771.9/18

Left In: 4840.108+/-0.995 χ^2/NDF : 1005076.8/14

Left: 4447.995+/-0.646 χ^2/NDF : 3788633.6/31

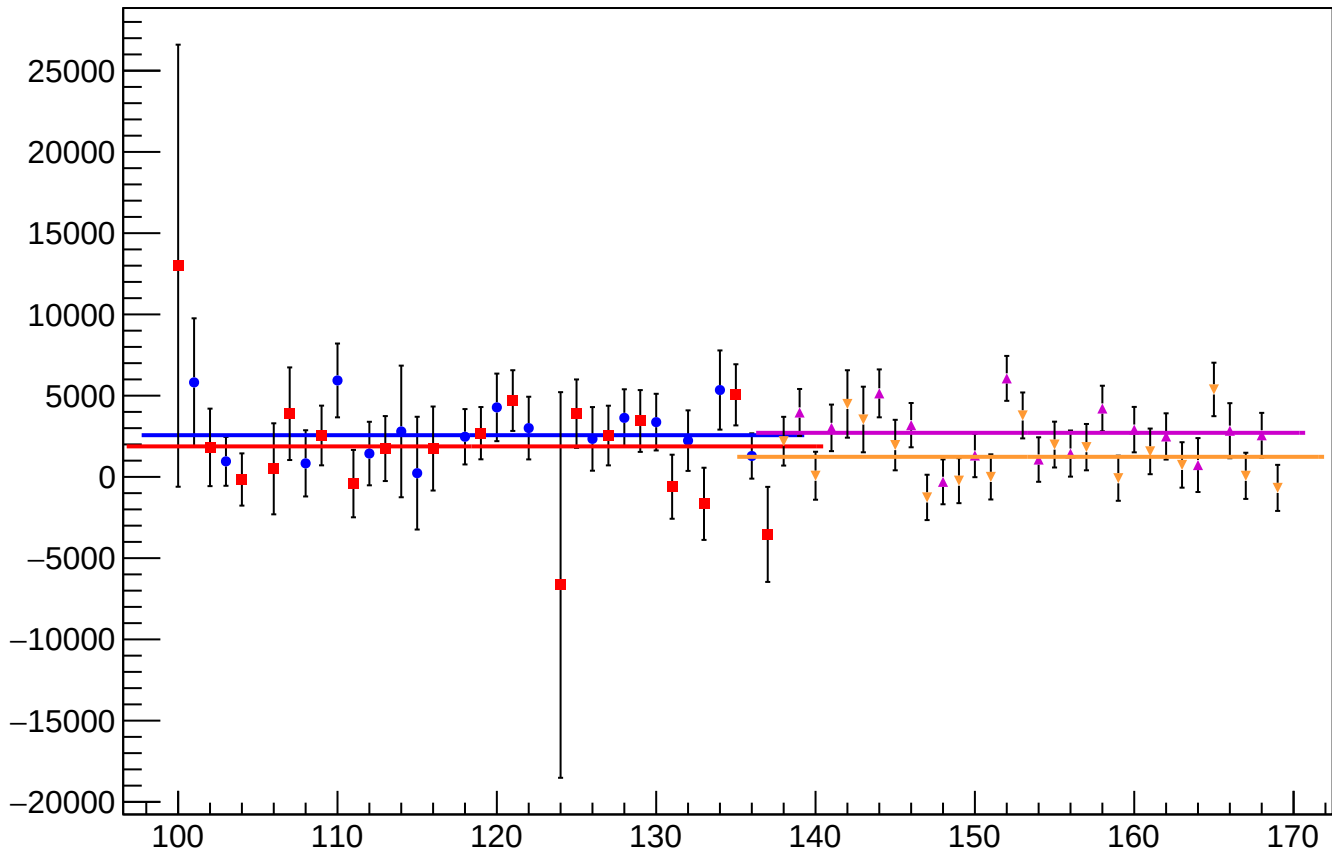
Right: 2700.678+/-0.569 χ^2/NDF : 6124259.3/34

In: 3653.866+/-0.640 χ^2/NDF : 6435408.0/30

Out: 3310.990+/-0.573 χ^2/NDF : 7435713.0/35

All: 3463.581+/-0.427 χ^2/NDF : 14030308.7/66

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2567.180 $\pm$ 495.364 χ^2 /NDF: 9.0/15

Left Out: 1235.848 $\pm$ 359.399 χ^2 /NDF:23.8/16

Right Out: 1877.774 $\pm$ 494.719 χ^2 /NDF: 19.5/18

Left In: 2712.574 $\pm$ 368.744 χ^2 /NDF:20.2/14

Left: 1955.262 $\pm$ 257.374 χ^2 /NDF: 52.2/31

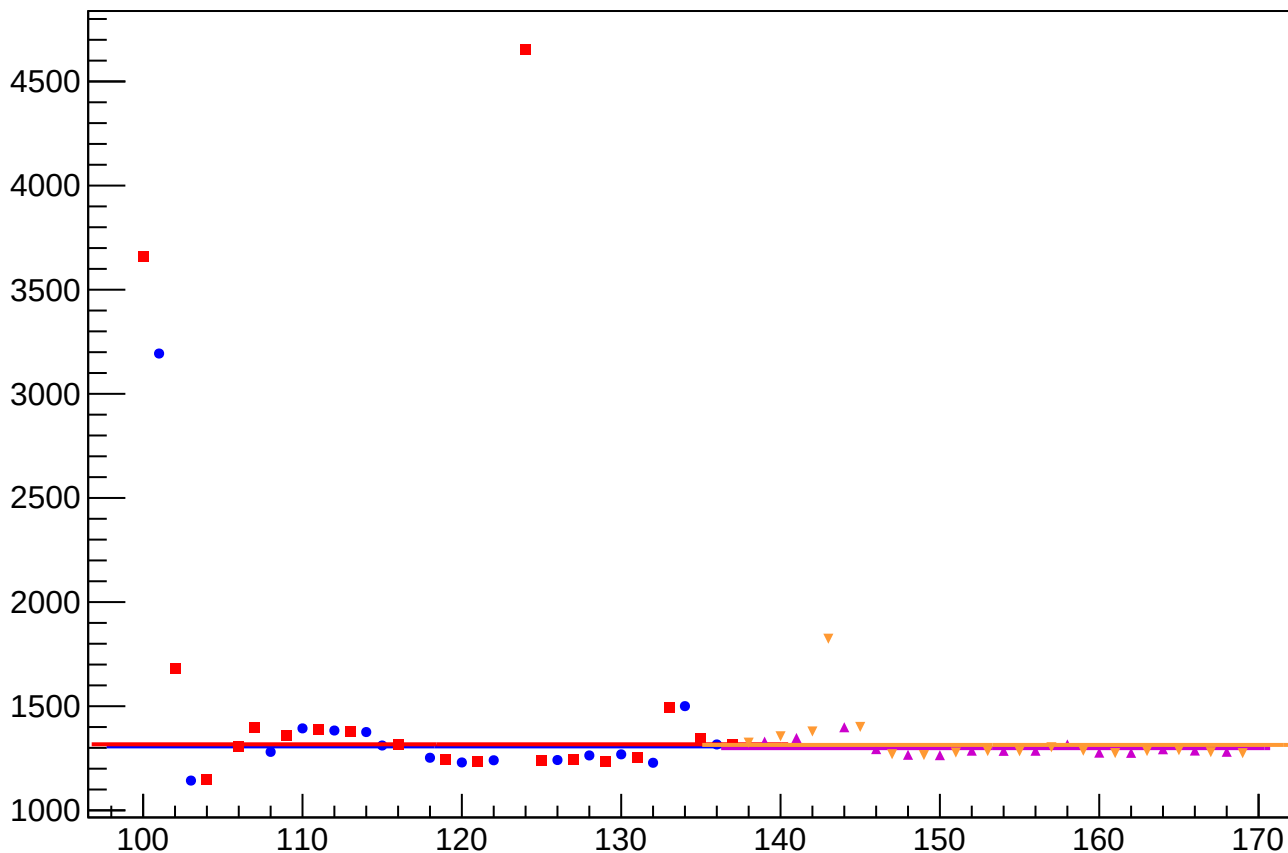
Right: 2222.028 $\pm$ 350.047 χ^2 /NDF: 29.6/34

In: 2660.734 $\pm$ 295.790 χ^2 /NDF:29.3/30

Out: 1457.599 $\pm$ 290.770 χ^2 /NDF:44.4/35

All: 2048.870 $\pm$ 207.357 χ^2 /NDF: 82.2/66

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1307.068+/-0.350 χ^2/NDF : 516250.6/15

Left Out: 1314.125+/-0.254 χ^2/NDF :151820.8/16

Right Out: 1317.128+/-0.349 χ^2/NDF : 325926.8/18

Left In: 1298.622+/-0.261 χ^2/NDF :17096.5/14

Left: 1306.572+/-0.182 χ^2/NDF : 170730.4/31

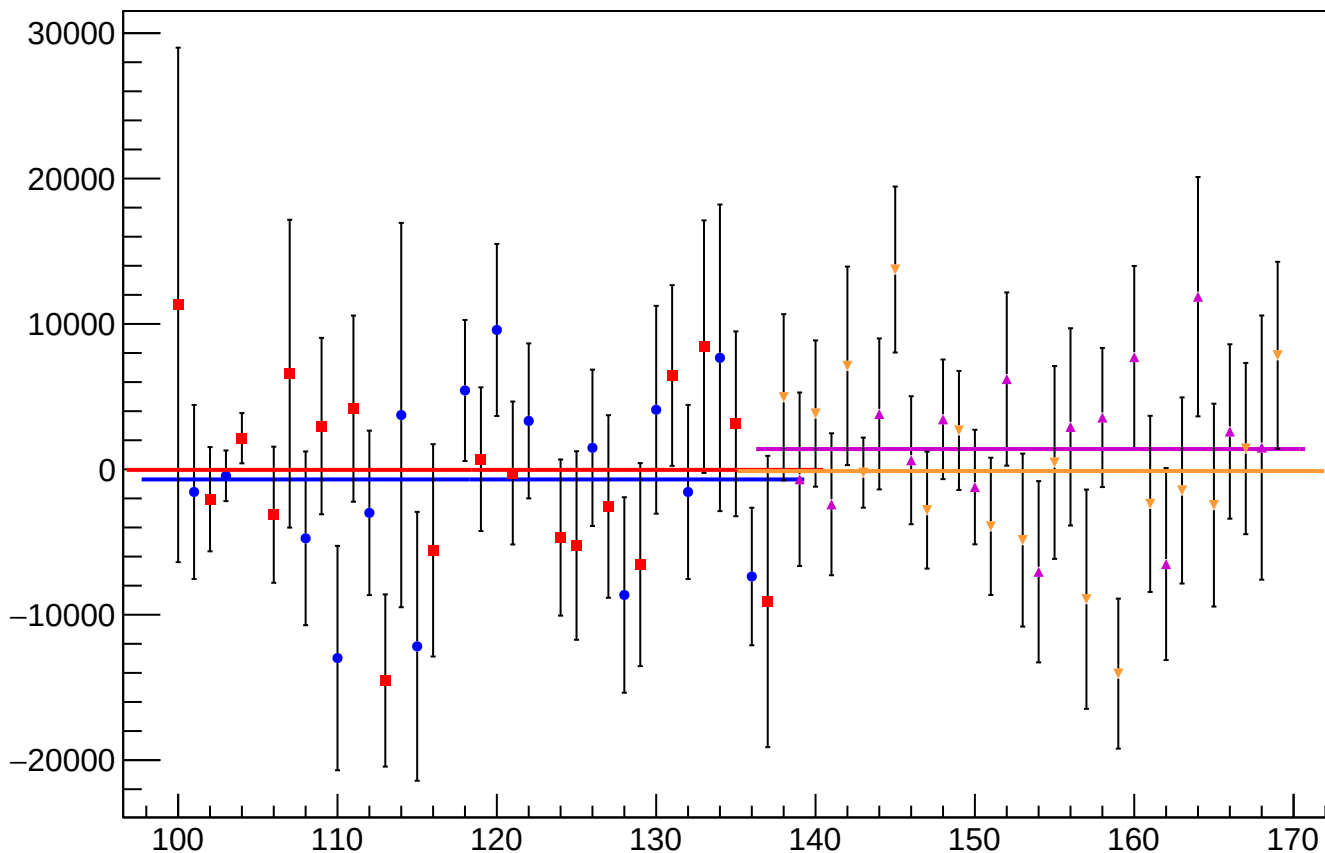
Right: 1312.114+/-0.247 χ^2/NDF : 842591.1/34

In: 1301.633+/-0.209 χ^2/NDF :533721.2/30

Out: 1315.165+/-0.205 χ^2/NDF :477795.9/35

All: 1308.519+/-0.147 χ^2/NDF : 1013647.3/66

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -695.249+/-1182.433 χ^2/NDF : 14.7/15

Left Out: -118.943+/-1201.982 χ^2/NDF : 21.2/16

Right Out: -36.115+/-1098.207 χ^2/NDF : 15.9/18

Left In: 1395.983+/-1407.600 χ^2/NDF : 8.5/14

Left: 519.890+/-914.065 χ^2/NDF : 30.4/31

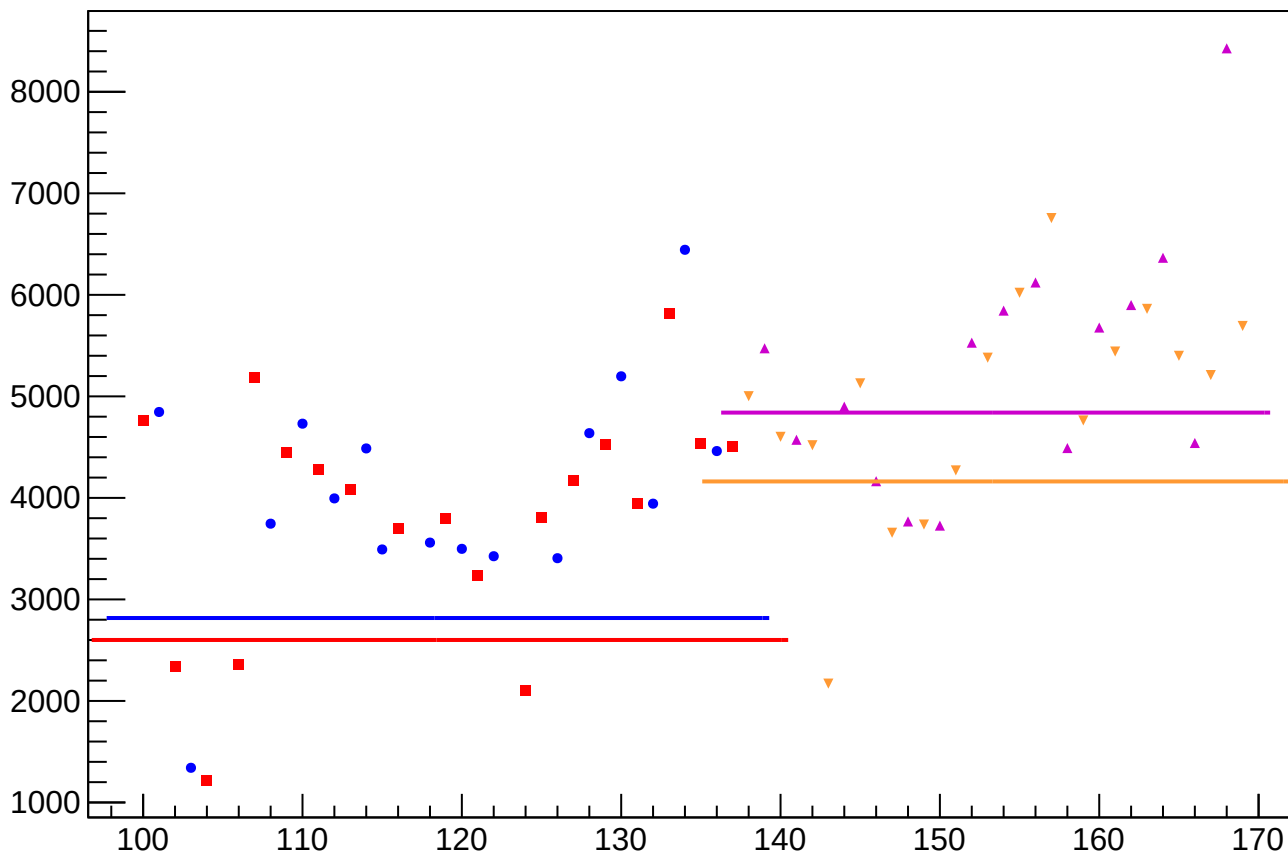
Right: -341.373+/-804.680 χ^2/NDF : 30.8/34

In: 169.927+/-905.379 χ^2/NDF : 24.5/30

Out: -73.799+/-810.759 χ^2/NDF : 37.1/35

All: 34.667+/-603.985 χ^2/NDF : 61.7/66

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2816.784+/-0.836 χ^2/NDF : 3007570.0/15

Left Out: 4162.071+/-0.850 χ^2/NDF : 2515185.1/16

Right Out: 2600.524+/-0.777 χ^2/NDF : 3080771.9/18

Left In: 4840.108+/-0.995 χ^2/NDF : 1005076.8/14

Left: 4447.995+/-0.646 χ^2/NDF : 3788633.6/31

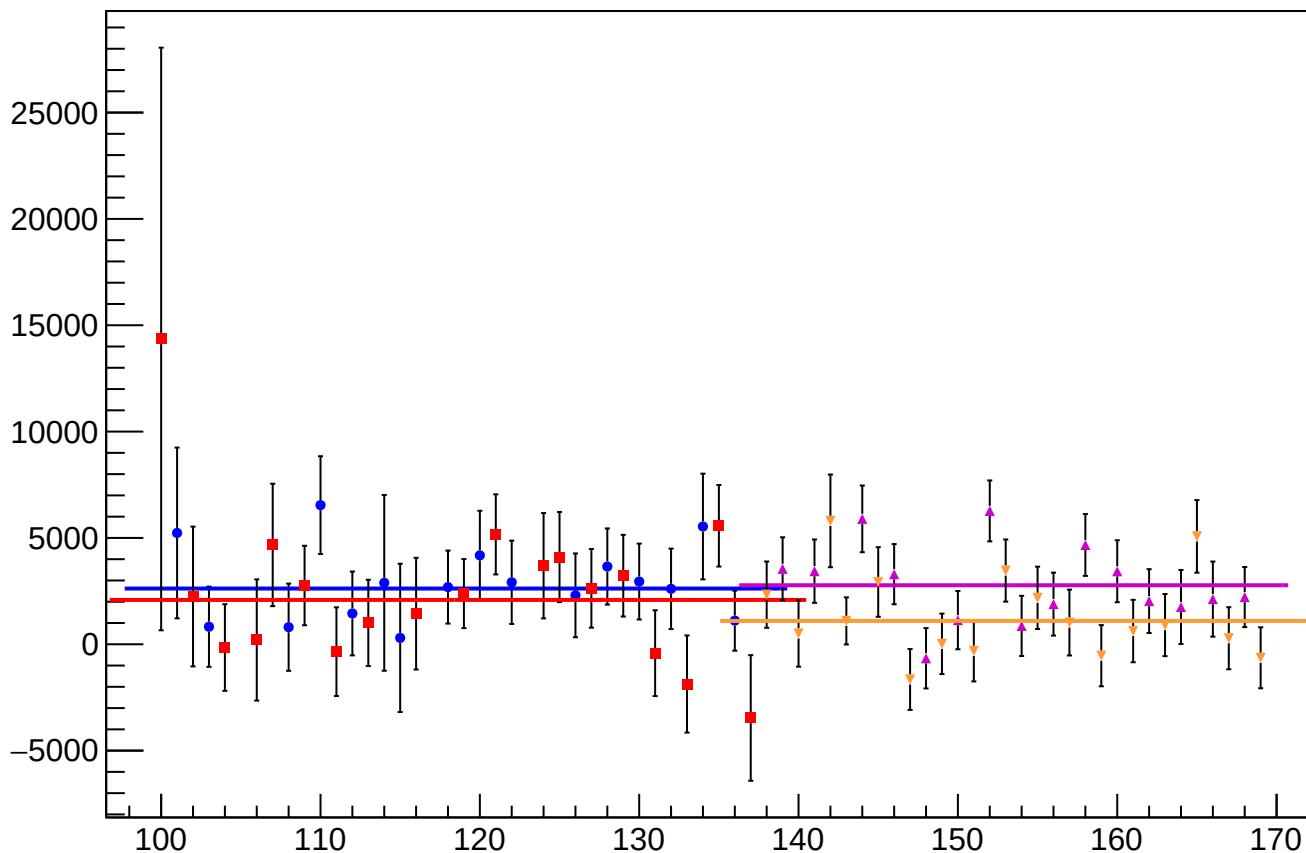
Right: 2700.678+/-0.569 χ^2/NDF : 6124259.3/34

In: 3653.866+/-0.640 χ^2/NDF : 6435408.0/30

Out: 3310.990+/-0.573 χ^2/NDF : 7435713.0/35

All: 3463.581+/-0.427 χ^2/NDF : 14030308.7/66

dit_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2620.535 $\pm$ 511.510 χ^2 /NDF: 9.3/15

Left Out: 1098.033 $\pm$ 359.000 χ^2 /NDF:23.7/16

Right Out: 2085.606 $\pm$ 504.873 χ^2 /NDF: 20.9/18

Left In: 2775.288 $\pm$ 382.774 χ^2 /NDF:22.8/14

Left: 1882.961 $\pm$ 261.853 χ^2 /NDF: 56.7/31

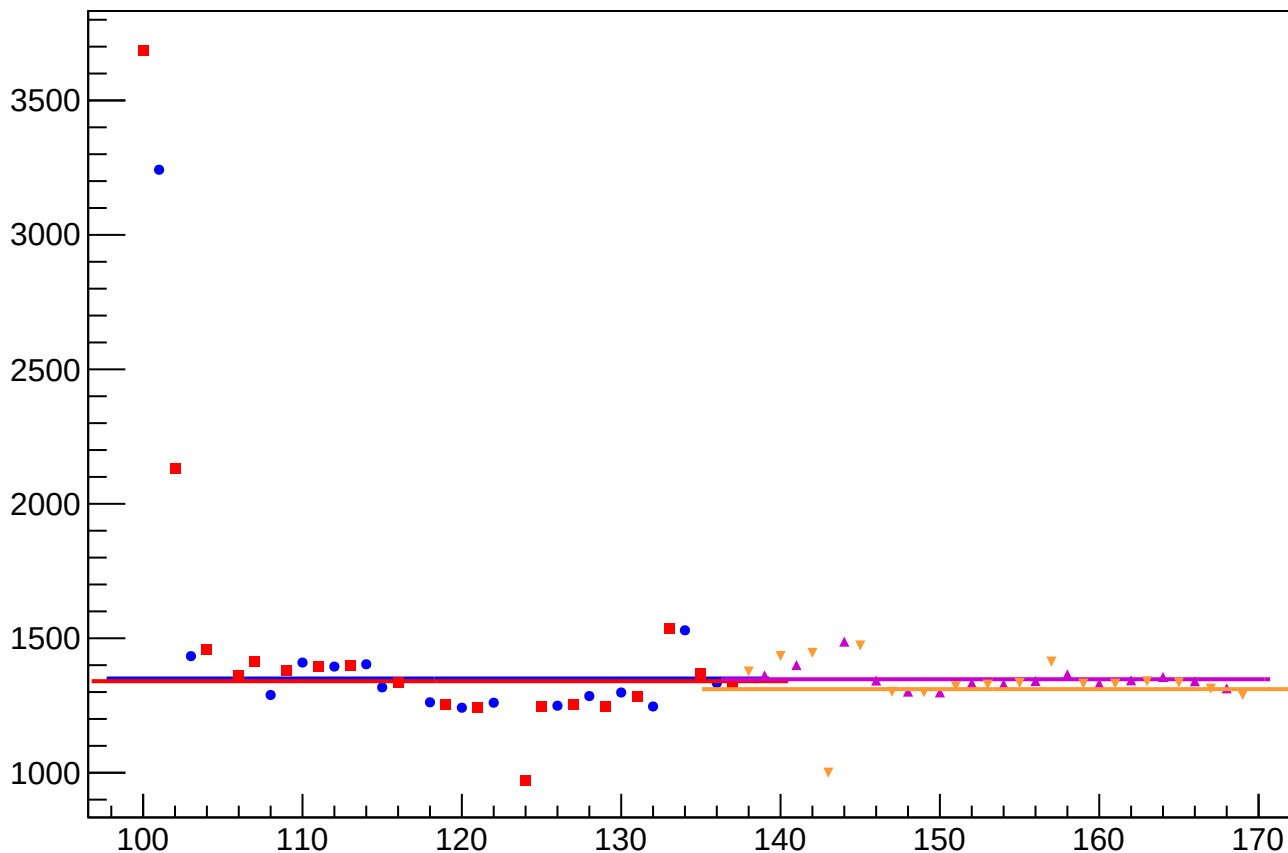
Right: 2349.577 $\pm$ 359.323 χ^2 /NDF: 30.8/34

In: 2719.737 $\pm$ 306.466 χ^2 /NDF:32.1/30

Out: 1429.682 $\pm$ 292.575 χ^2 /NDF:47.2/35

All: 2044.811 $\pm$ 211.622 χ^2 /NDF: 88.6/66

dit_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1350.369 $\pm$ 0.362 χ^2 /NDF: 494051.1/15

Left Out: 1310.873 $\pm$ 0.254 χ^2 /NDF: 212982.5/16

Right Out: 1340.429 $\pm$ 0.357 χ^2 /NDF: 272183.5/18

Left In: 1347.615 $\pm$ 0.271 χ^2 /NDF: 25692.9/14

Left: 1328.068 $\pm$ 0.185 χ^2 /NDF: 248479.1/31

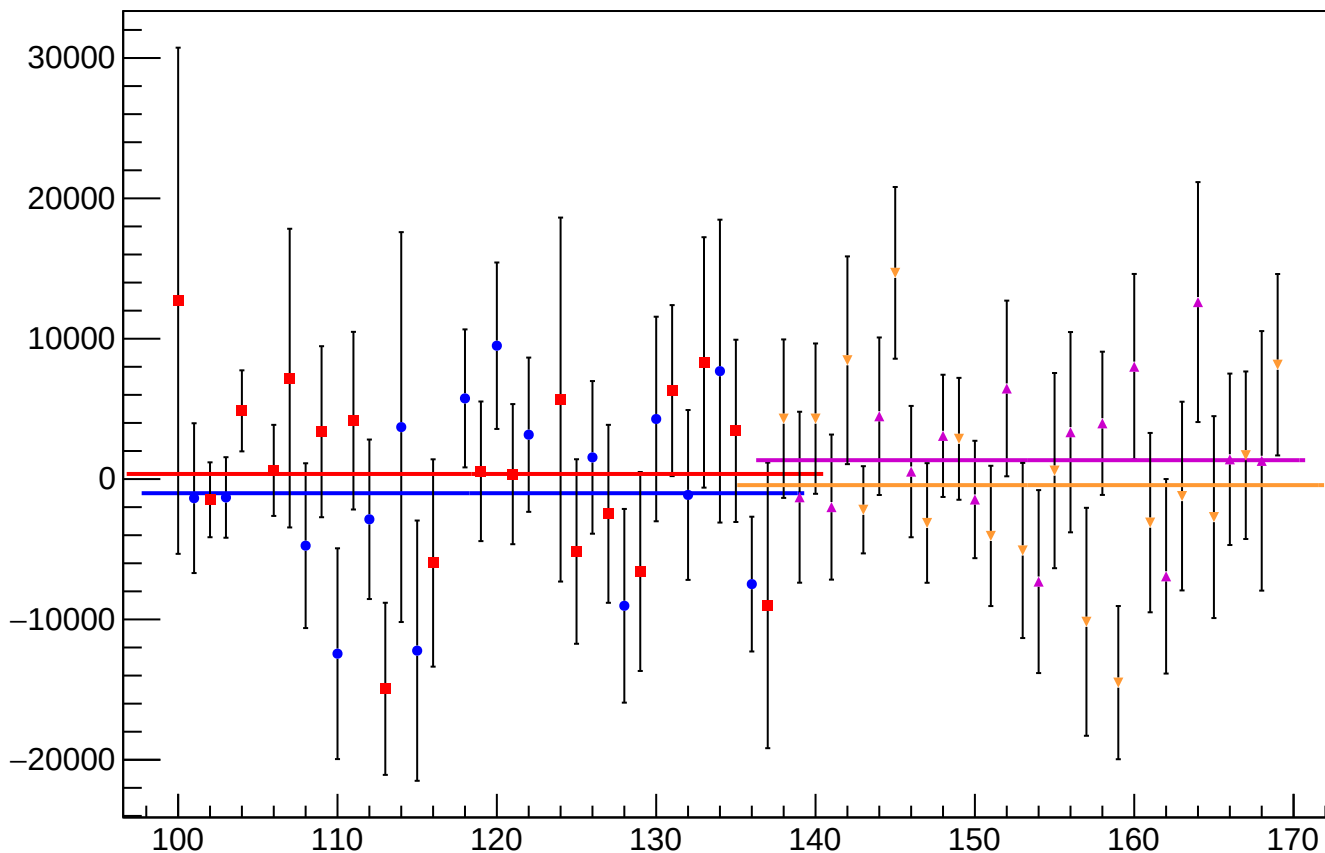
Right: 1345.331 $\pm$ 0.254 χ^2 /NDF: 766617.4/34

In: 1348.603 $\pm$ 0.217 χ^2 /NDF: 519781.2/30

Out: 1320.807 $\pm$ 0.207 χ^2 /NDF: 489722.1/35

All: 1334.058 $\pm$ 0.150 χ^2 /NDF: 1018112.9/66

asym_atl_avg_atr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1006.752 $\pm$ 1404.458 χ^2 /NDF: 14.6/15

Left Out: -431.481 $\pm$ 1317.609 χ^2 /NDF:21.7/16

Right Out: 364.493 $\pm$ 1202.498 χ^2 /NDF: 16.2/18

Left In: 1345.922 $\pm$ 1482.798 χ^2 /NDF:8.5/14

Left: 352.740 $\pm$ 984.936 χ^2 /NDF: 31.0/31

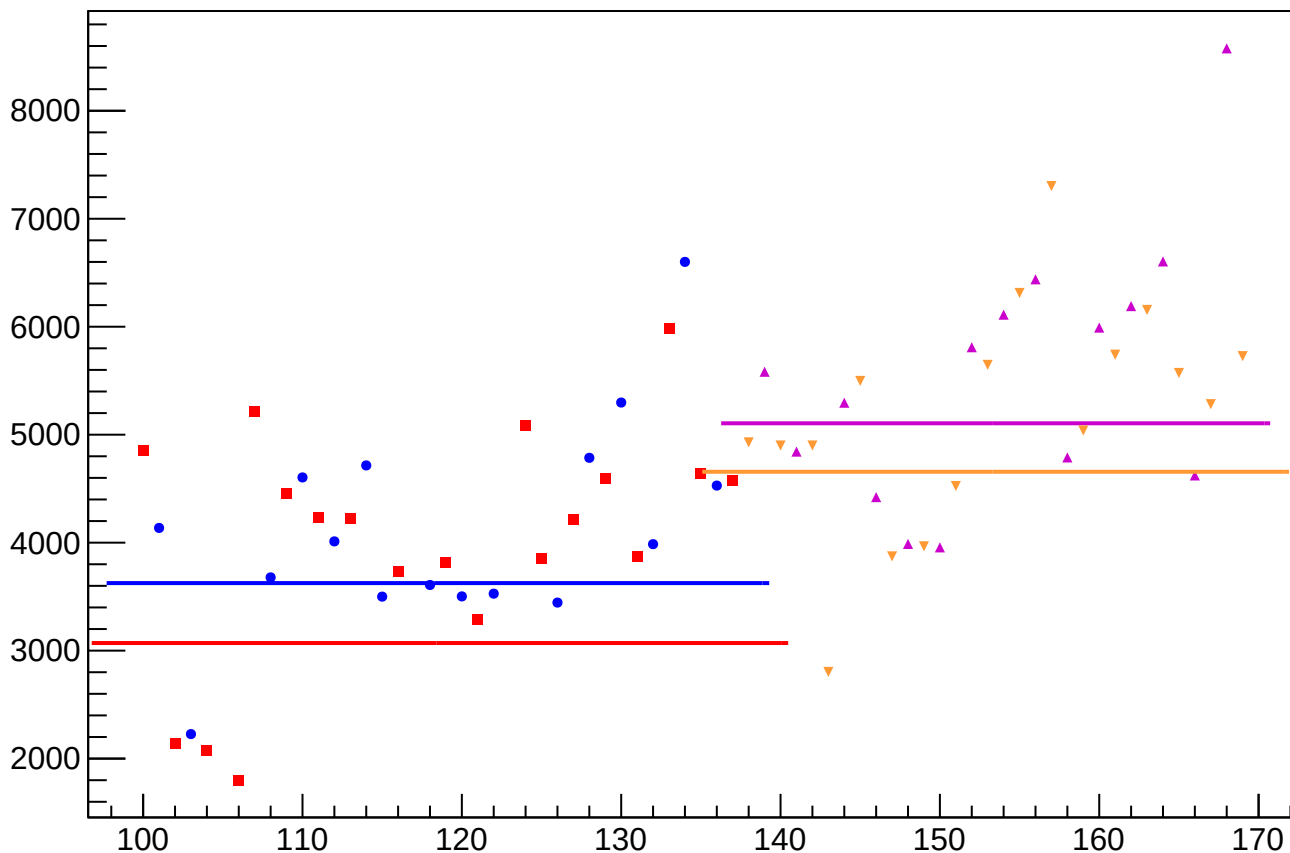
Right: -215.533 $\pm$ 913.430 χ^2 /NDF: 31.4/34

In: 105.797 $\pm$ 1019.672 χ^2 /NDF:24.4/30

Out: 2.788 $\pm$ 888.208 χ^2 /NDF:38.1/35

All: 47.228 $\pm$ 669.747 χ^2 /NDF: 62.6/66

asym_atl_avg_atr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 3625.512 $\pm$ 0.993 χ^2 /NDF: 944905.4/15

Left Out: 4656.781 $\pm$ 0.932 χ^2 /NDF:1532527.5/16

Right Out: 3070.442 $\pm$ 0.850 χ^2 /NDF: 1838659.1/18

Left In: 5105.691 $\pm$ 1.048 χ^2 /NDF:936855.0/14

Left: 4854.848 $\pm$ 0.696 χ^2 /NDF: 2571812.4/31

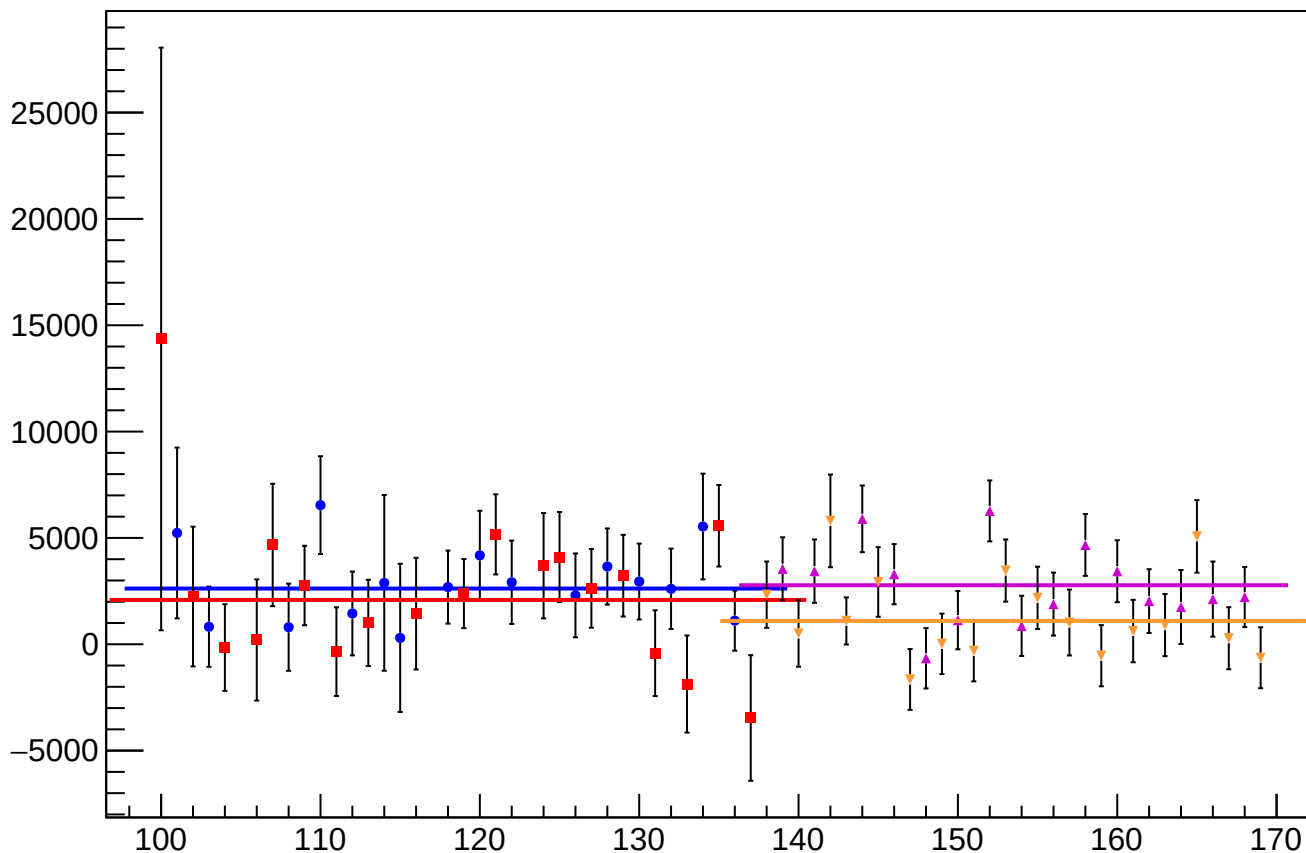
Right: 3305.233 $\pm$ 0.646 χ^2 /NDF: 2963820.1/34

In: 4325.469 $\pm$ 0.721 χ^2 /NDF:2932265.6/30

Out: 3791.303 $\pm$ 0.628 χ^2 /NDF:4952830.1/35

All: 4021.753 $\pm$ 0.474 χ^2 /NDF: 8197166.6/66

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2620.535 $\pm$ 511.510 χ^2 /NDF: 9.3/15

Left Out: 1098.026 $\pm$ 359.001 χ^2 /NDF:23.7/16

Right Out: 2085.608 $\pm$ 504.873 χ^2 /NDF: 20.9/18

Left In: 2775.289 $\pm$ 382.774 χ^2 /NDF:22.8/14

Left: 1882.958 $\pm$ 261.853 χ^2 /NDF: 56.7/31

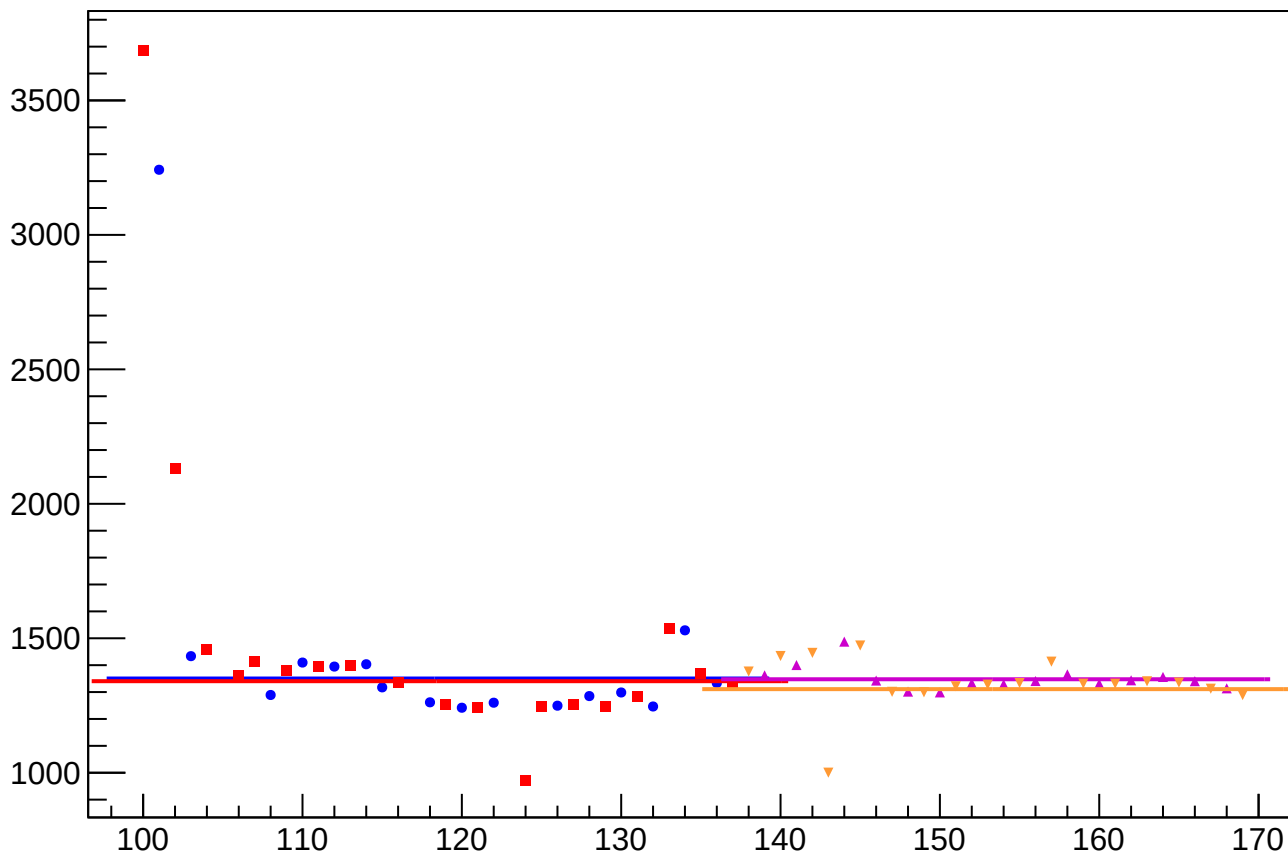
Right: 2349.579 $\pm$ 359.323 χ^2 /NDF: 30.8/34

In: 2719.738 $\pm$ 306.466 χ^2 /NDF:32.1/30

Out: 1429.679 $\pm$ 292.575 χ^2 /NDF:47.2/35

All: 2044.810 $\pm$ 211.622 χ^2 /NDF: 88.6/66

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1350.369+/-0.362 χ^2/NDF : 494051.2/15

Left Out: 1310.874+/-0.254 χ^2/NDF : 212983.2/16

Right Out: 1340.428+/-0.357 χ^2/NDF : 272182.5/18

Left In: 1347.616+/-0.271 χ^2/NDF : 25693.1/14

Left: 1328.069+/-0.185 χ^2/NDF : 248480.1/31

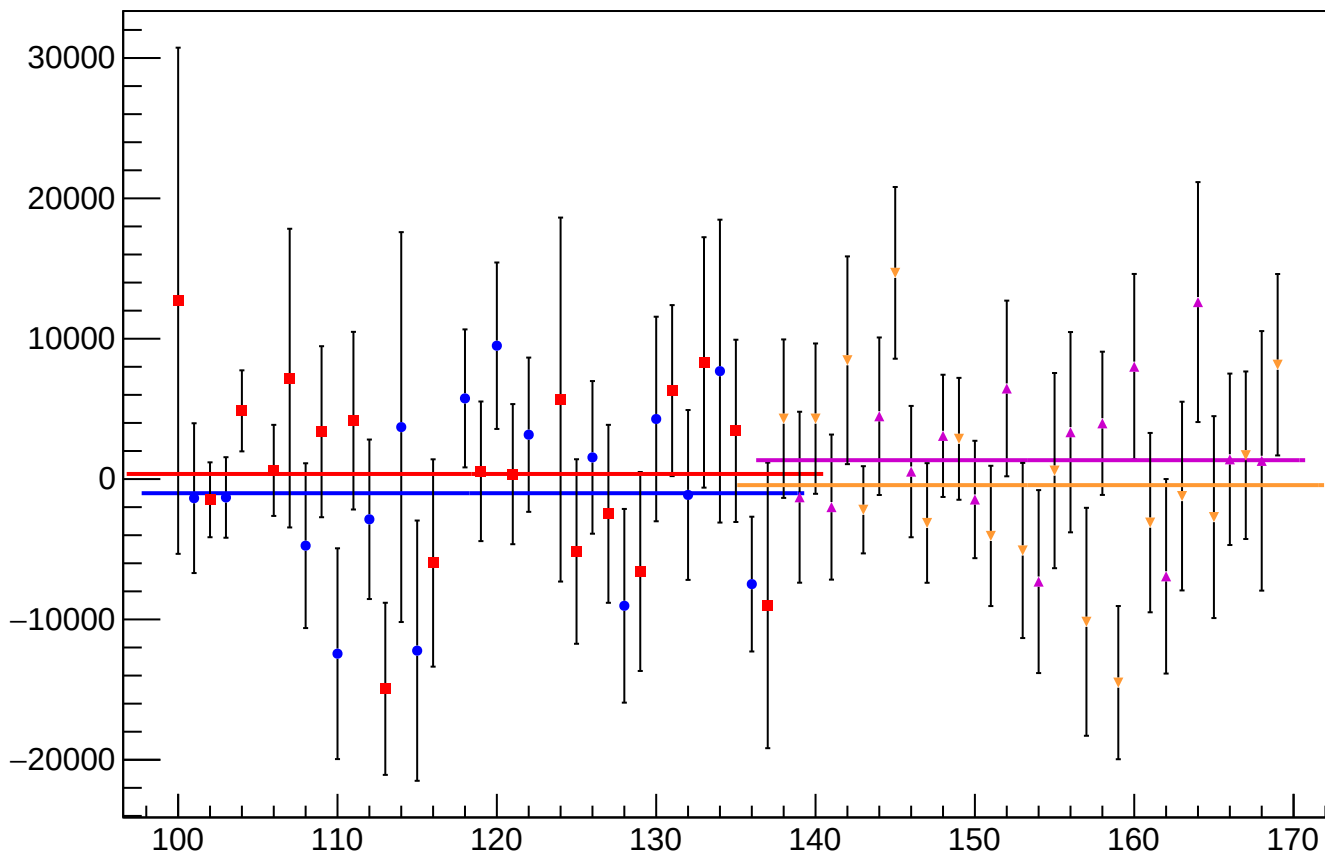
Right: 1345.330+/-0.254 χ^2/NDF : 766616.6/34

In: 1348.604+/-0.217 χ^2/NDF : 519781.5/30

Out: 1320.807+/-0.207 χ^2/NDF : 489721.3/35

All: 1334.059+/-0.150 χ^2/NDF : 1018112.4/66

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1006.742 $\pm$ 1404.455 χ^2 /NDF: 14.6/15

Left Out: -431.485 $\pm$ 1317.611 χ^2 /NDF:21.7/16

Right Out: 364.495 $\pm$ 1202.495 χ^2 /NDF: 16.2/18

Left In: 1345.921 $\pm$ 1482.800 χ^2 /NDF:8.5/14

Left: 352.737 $\pm$ 984.938 χ^2 /NDF: 31.0/31

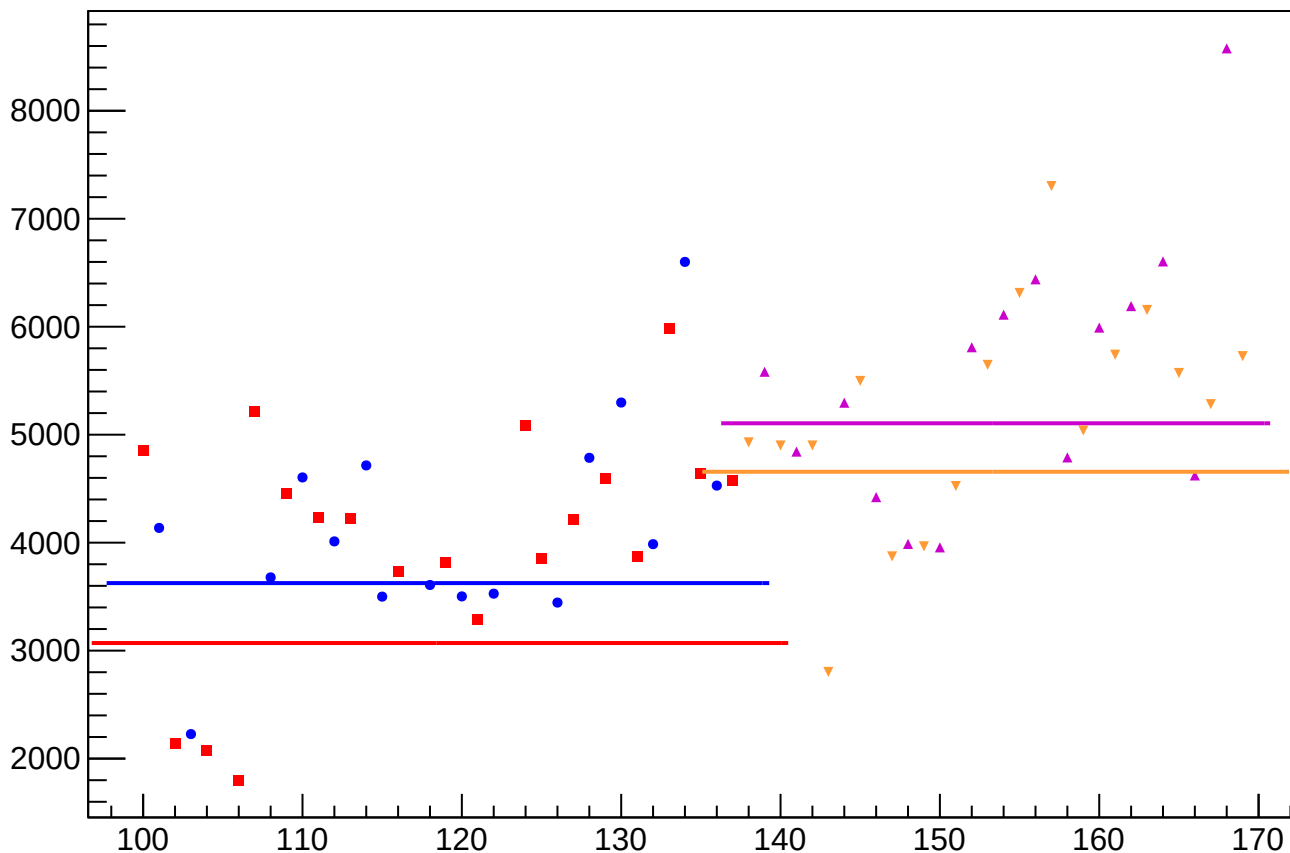
Right: -215.528 $\pm$ 913.428 χ^2 /NDF: 31.4/34

In: 105.797 $\pm$ 1019.672 χ^2 /NDF:24.4/30

Out: 2.789 $\pm$ 888.207 χ^2 /NDF:38.1/35

All: 47.229 $\pm$ 669.746 χ^2 /NDF: 62.6/66

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3625.503 $\pm$ 0.993 χ^2 /NDF: 944907.6/15

Left Out: 4656.788 $\pm$ 0.932 χ^2 /NDF:1532527.8/16

Right Out: 3070.434 $\pm$ 0.850 χ^2 /NDF: 1838662.0/18

Left In: 5105.698 $\pm$ 1.048 χ^2 /NDF:936856.6/14

Left: 4854.855 $\pm$ 0.696 χ^2 /NDF: 2571814.2/31

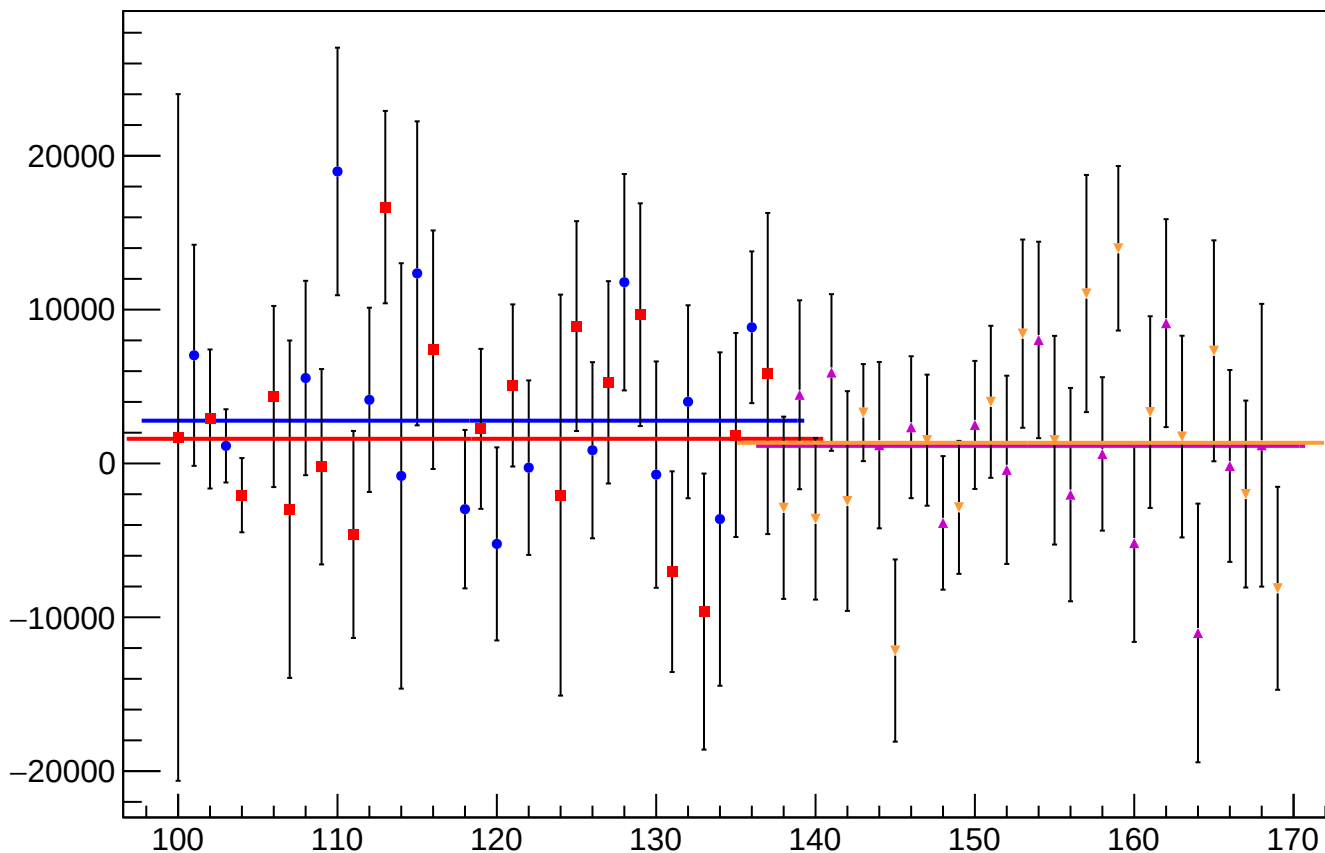
Right: 3305.224 $\pm$ 0.646 χ^2 /NDF: 2963825.9/34

In: 4325.465 $\pm$ 0.721 χ^2 /NDF:2932293.3/30

Out: 3791.299 $\pm$ 0.628 χ^2 /NDF:4952865.6/35

All: 4021.748 $\pm$ 0.474 χ^2 /NDF: 8197231.0/66

asym_atl_avg_atr_avg_avg_mean vs Slug, Sign Corrected



Right In: 2780.878+/-1389.439 χ^2/NDF : 13.2/15

Left Out: 1342.516+/-1311.112 χ^2/NDF : 20.2/16

Right Out: 1602.626+/-1337.018 χ^2/NDF : 16.8/18

Left In: 1144.376+/-1463.179 χ^2/NDF : 8.6/14

Left: 1254.274+/-976.447 χ^2/NDF : 28.8/31

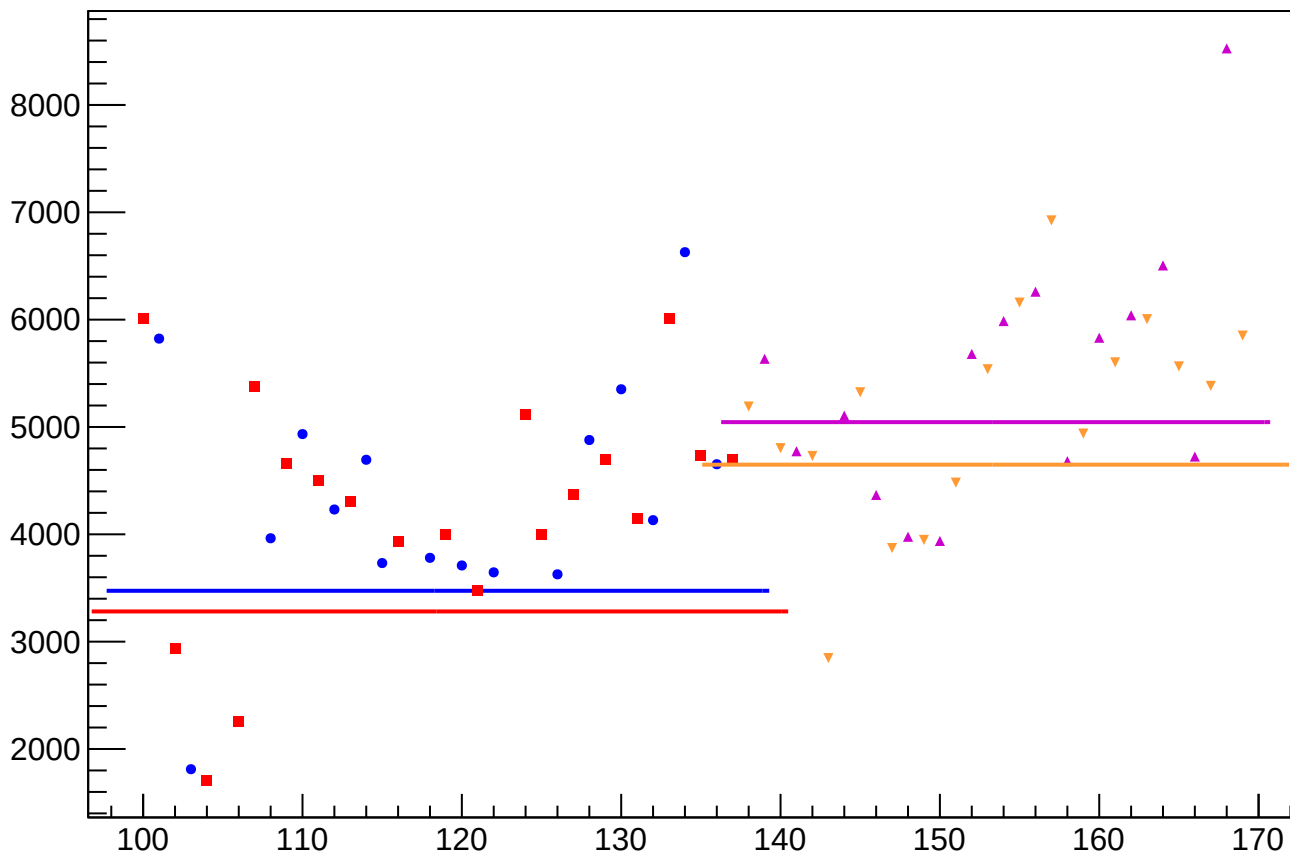
Right: 2169.106+/-963.414 χ^2/NDF : 30.3/34

In: 2004.902+/-1007.543 χ^2/NDF : 22.5/30

Out: 1470.027+/-936.121 χ^2/NDF : 37.0/35

All: 1717.837+/-685.798 χ^2/NDF : 59.6/66

asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3473.898 $\pm$ 0.982 χ^2 /NDF: 1843964.2/15

Left Out: 4648.904 $\pm$ 0.927 χ^2 /NDF: 1400523.8/16

Right Out: 3281.478 $\pm$ 0.932 χ^2 /NDF: 1875493.9/18

Left In: 5045.165 $\pm$ 1.035 χ^2 /NDF: 893201.5/14

Left: 4825.379 $\pm$ 0.690 χ^2 /NDF: 2375086.5/31

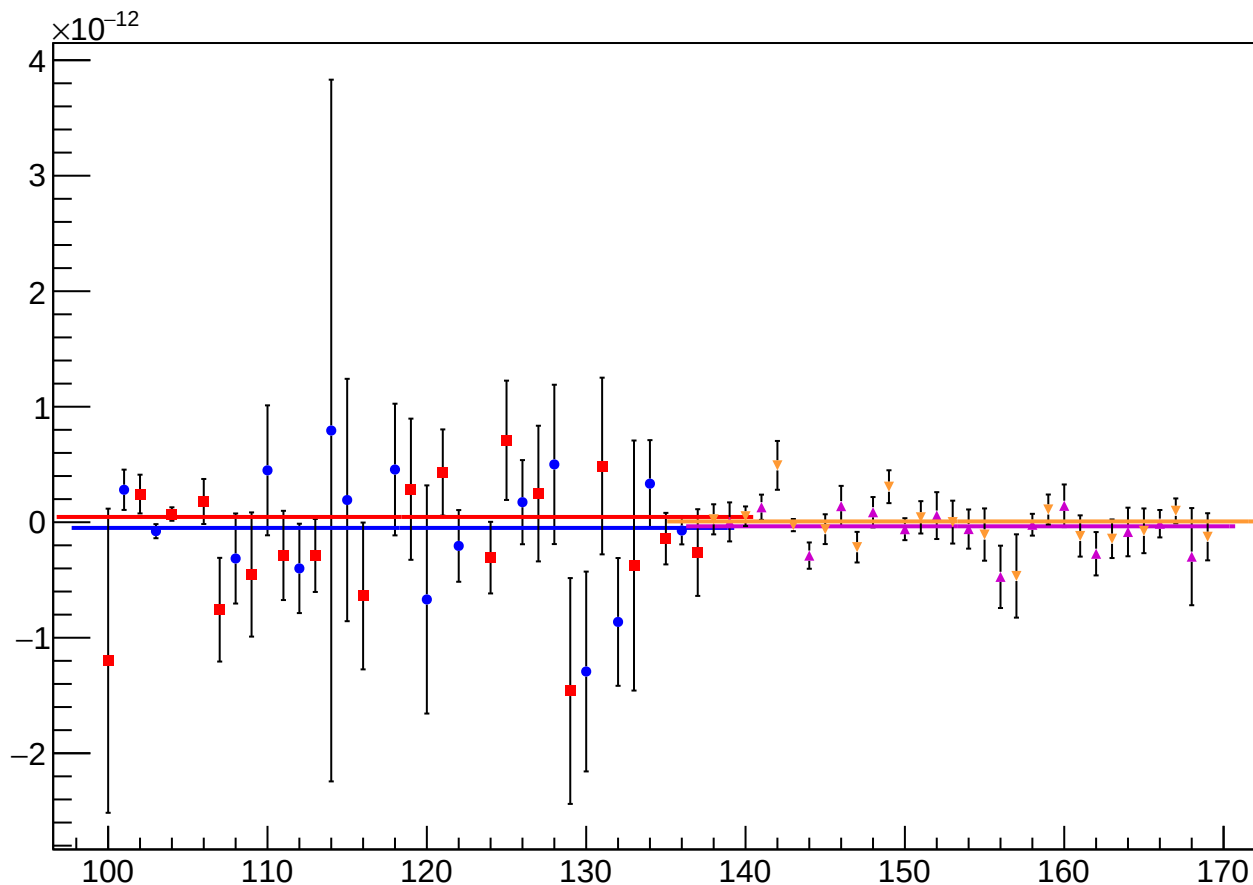
Right: 3372.669 $\pm$ 0.676 χ^2 /NDF: 3739637.8/34

In: 4218.935 $\pm$ 0.712 χ^2 /NDF: 3949956.7/30

Out: 3969.160 $\pm$ 0.657 χ^2 /NDF: 4357450.0/35

All: 4084.039 $\pm$ 0.483 χ^2 /NDF: 8373789.6/66

asym_atl_avg_atr_avg_avg_reg_vs_slug_sign_corrected



Right In: -0.000+/-0.000 χ^2/NDF : 13.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :18.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 18.5/18

Left In: -0.000+/-0.000 χ^2/NDF :15.1/14

Left: -0.000+/-0.000 χ^2/NDF : 34.7/31

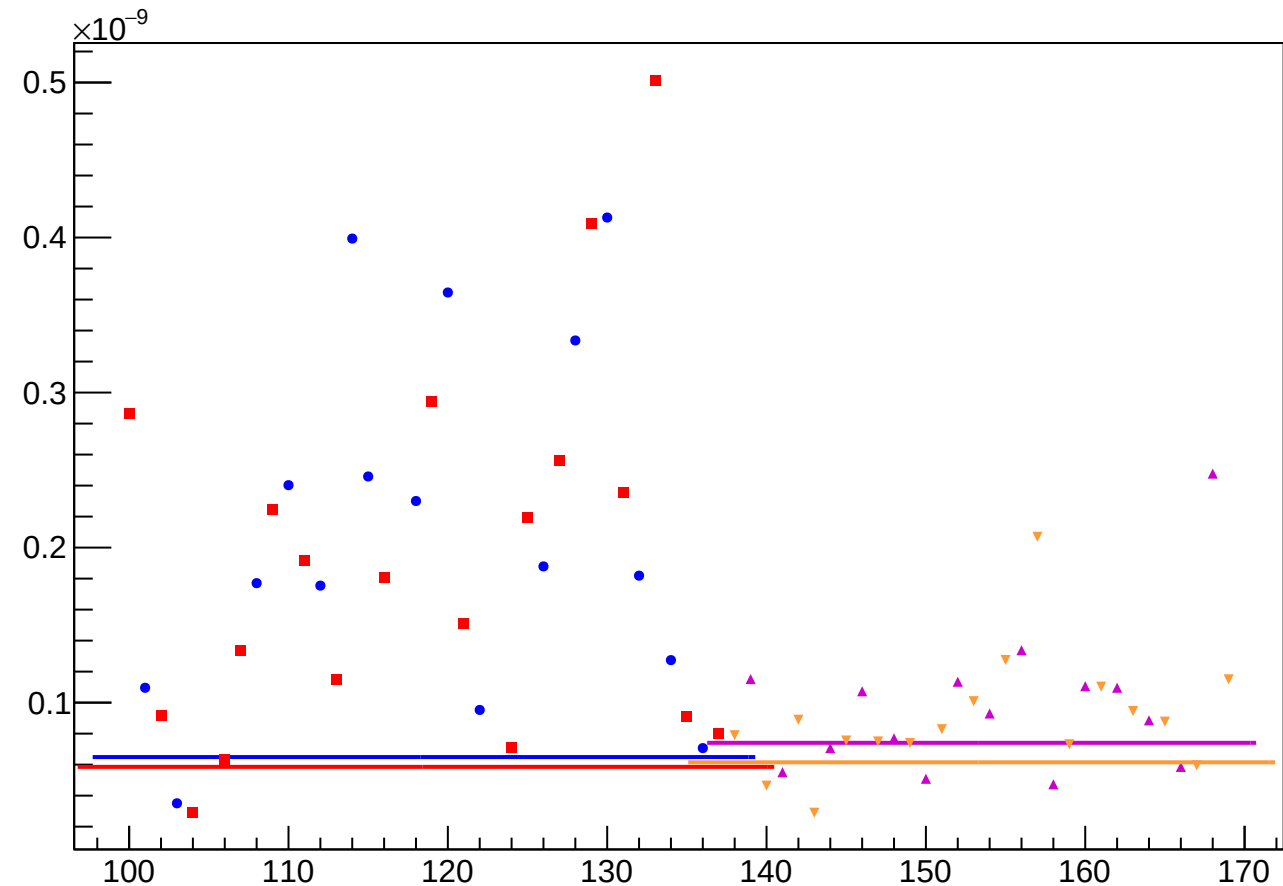
Right: -0.000+/-0.000 χ^2/NDF : 34.2/34

In: -0.000+/-0.000 χ^2/NDF :28.9/30

Out: 0.000+/-0.000 χ^2/NDF :37.8/35

All: -0.000+/-0.000 χ^2/NDF : 69.0/66

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2592912.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2000714.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2855105.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 1266431.7/14

Left: 0.000+/-0.000 χ^2/NDF : 3407575.1/31

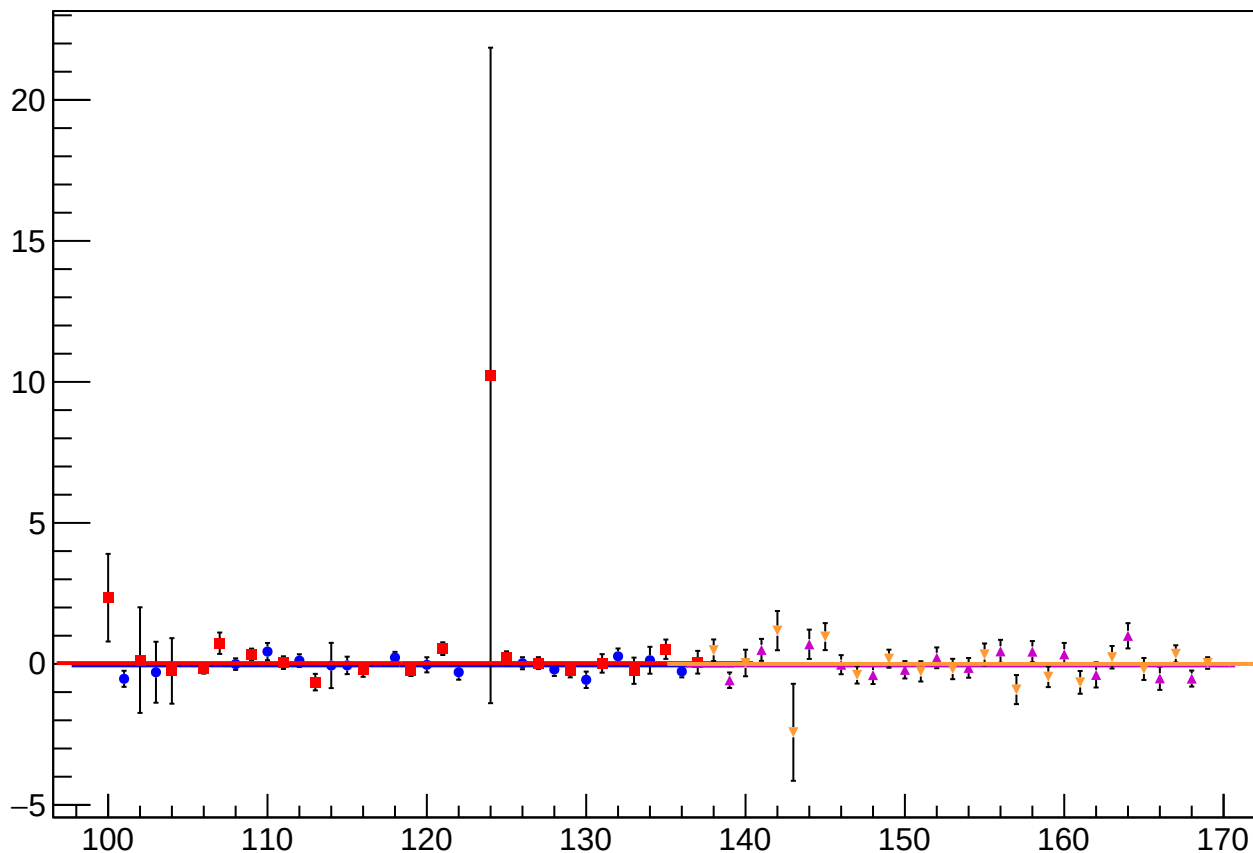
Right: 0.000+/-0.000 χ^2/NDF : 5465312.1/34

In: 0.000+/-0.000 χ^2/NDF : 3904857.9/30

Out: 0.000+/-0.000 χ^2/NDF : 4861286.1/35

All: 0.000+/-0.000 χ^2/NDF : 8900661.6/66

asym_atl_avg_atr_avg_avg_dit_vs_slug_sign_corrected



Right In: -0.051 ± 0.067 $\chi^2/\text{NDF}: 14.9/15$

Left Out: -0.001 ± 0.089 $\chi^2/\text{NDF}: 23.3/16$

Right Out: 0.029 ± 0.064 $\chi^2/\text{NDF}: 27.5/18$

Left In: -0.054 ± 0.093 $\chi^2/\text{NDF}: 23.9/14$

Left: -0.026 ± 0.064 $\chi^2/\text{NDF}: 47.4/31$

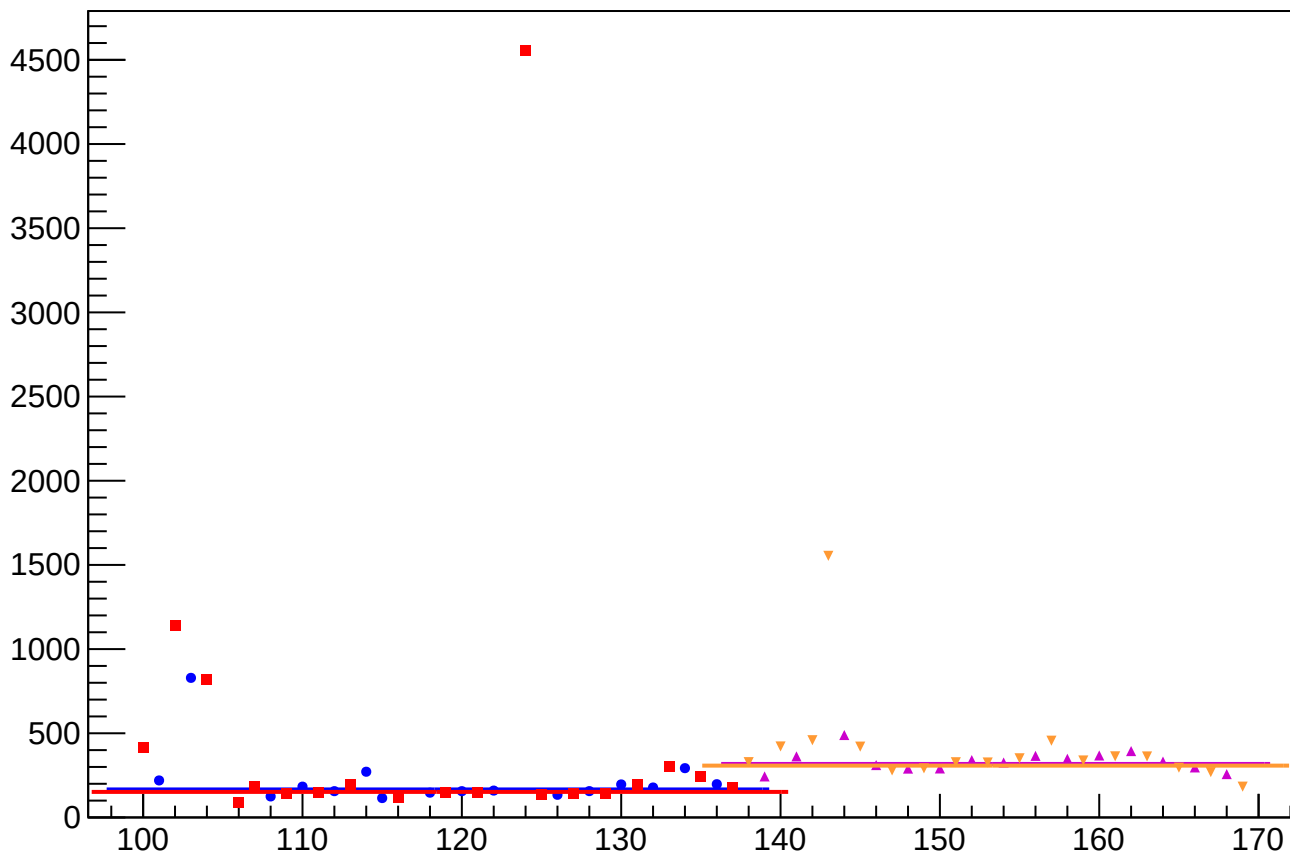
Right: -0.009 ± 0.046 $\chi^2/\text{NDF}: 43.2/34$

In: -0.052 ± 0.054 $\chi^2/\text{NDF}: 38.8/30$

Out: 0.019 ± 0.052 $\chi^2/\text{NDF}: 50.9/35$

All: -0.015 ± 0.038 $\chi^2/\text{NDF}: 90.6/66$

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 166.360+/-0.047 χ^2/NDF : 1282728.5/15

Left Out: 307.894+/-0.063 χ^2/NDF : 2465840.3/16

Right Out: 151.791+/-0.045 χ^2/NDF : 2315638.8/18

Left In: 317.757+/-0.066 χ^2/NDF : 658466.0/14

Left: 312.633+/-0.046 χ^2/NDF : 3136012.4/31

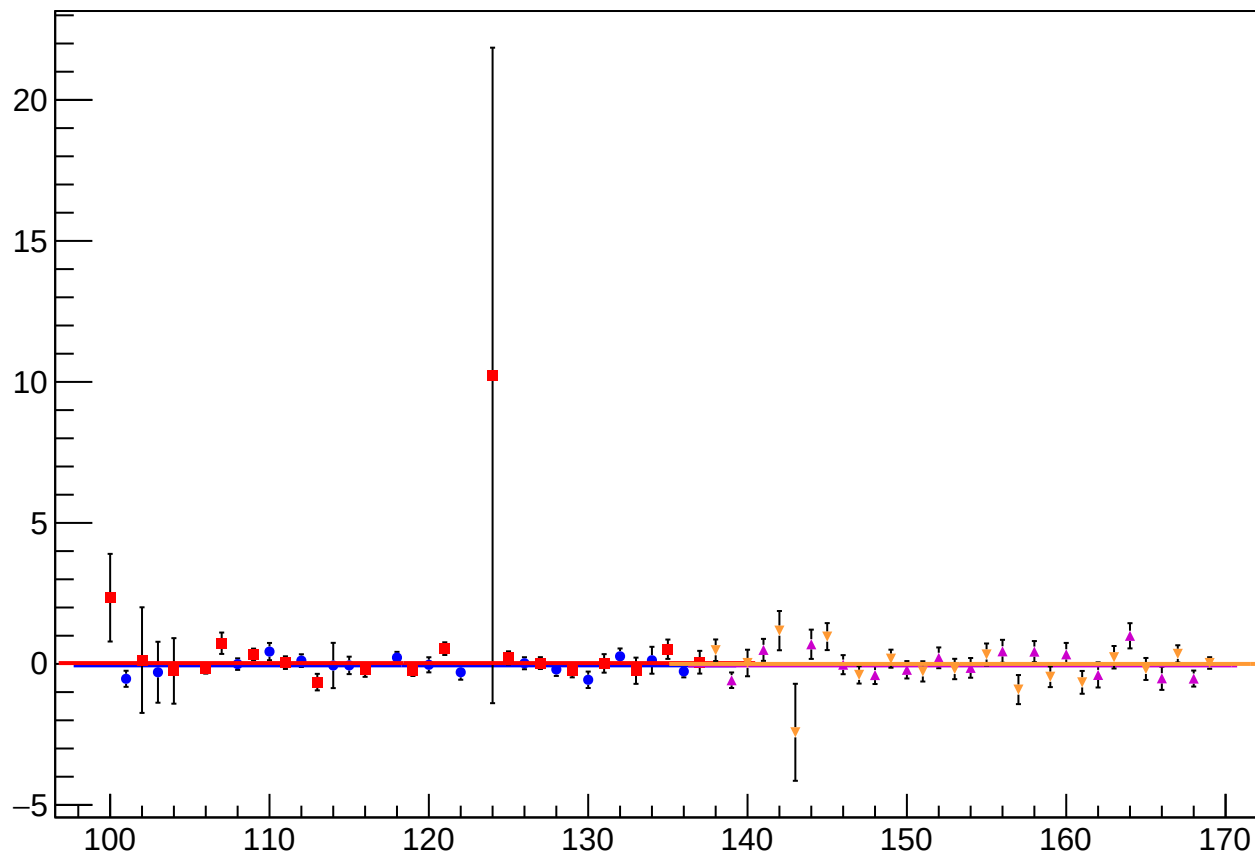
Right: 158.774+/-0.033 χ^2/NDF : 3648009.6/34

In: 217.867+/-0.038 χ^2/NDF : 5443885.0/30

Out: 204.739+/-0.037 χ^2/NDF : 8814465.6/35

All: 211.037+/-0.027 χ^2/NDF : 14319396.8/66

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.051 ± 0.067 $\chi^2/\text{NDF}: 14.9/15$

Left Out: -0.001 ± 0.089 $\chi^2/\text{NDF}: 23.3/16$

Right Out: 0.029 ± 0.064 $\chi^2/\text{NDF}: 27.5/18$

Left In: -0.054 ± 0.093 $\chi^2/\text{NDF}: 23.9/14$

Left: -0.026 ± 0.064 $\chi^2/\text{NDF}: 47.4/31$

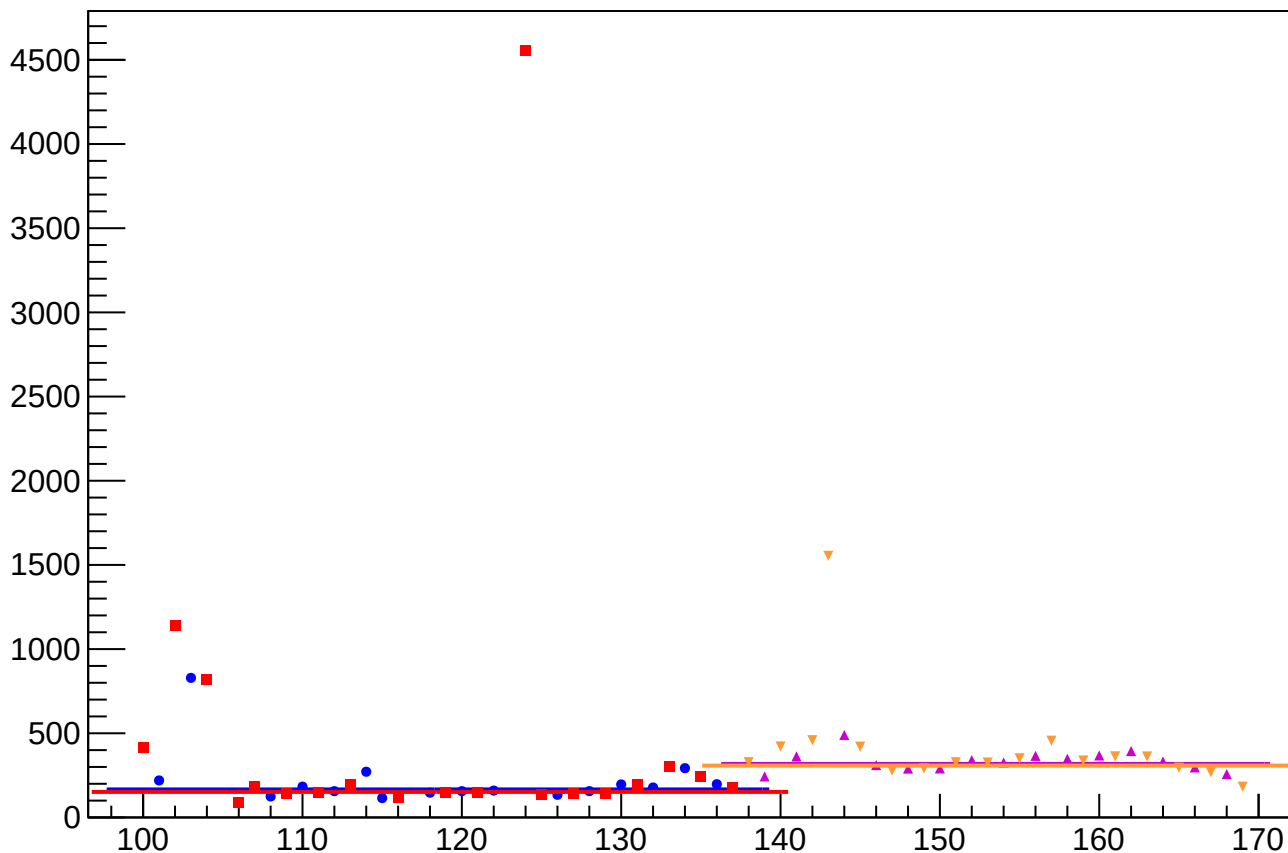
Right: -0.009 ± 0.046 $\chi^2/\text{NDF}: 43.2/34$

In: -0.052 ± 0.054 $\chi^2/\text{NDF}: 38.8/30$

Out: 0.019 ± 0.052 $\chi^2/\text{NDF}: 50.9/35$

All: -0.015 ± 0.038 $\chi^2/\text{NDF}: 90.6/66$

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 166.360 $\pm$ 0.047 χ^2 /NDF: 1282728.5/15

Left Out: 307.894 $\pm$ 0.063 χ^2 /NDF: 2465840.3/16

Right Out: 151.791 $\pm$ 0.045 χ^2 /NDF: 2315638.8/18

Left In: 317.757 $\pm$ 0.066 χ^2 /NDF: 658466.0/14

Left: 312.633 $\pm$ 0.046 χ^2 /NDF: 3136012.4/31

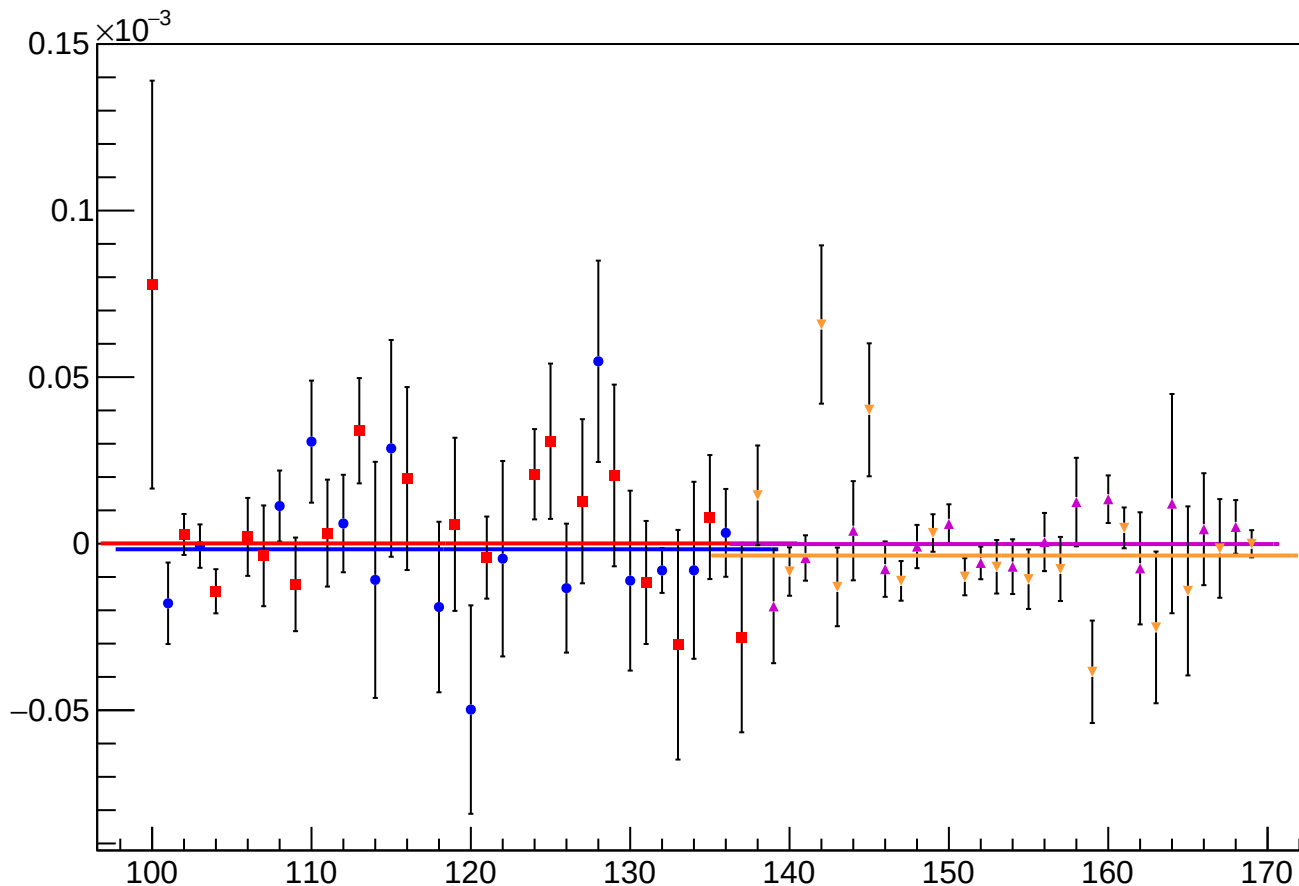
Right: 158.774 $\pm$ 0.033 χ^2 /NDF: 3648009.6/34

In: 217.867 $\pm$ 0.038 χ^2 /NDF: 5443885.0/30

Out: 204.739 $\pm$ 0.037 χ^2 /NDF: 8814465.6/35

All: 211.037 $\pm$ 0.027 χ^2 /NDF: 14319396.8/66

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 15.5/15

Left Out: -0.000+/-0.000 χ^2/NDF : 30.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 19.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 10.8/14

Left: -0.000+/-0.000 χ^2/NDF : 42.3/31

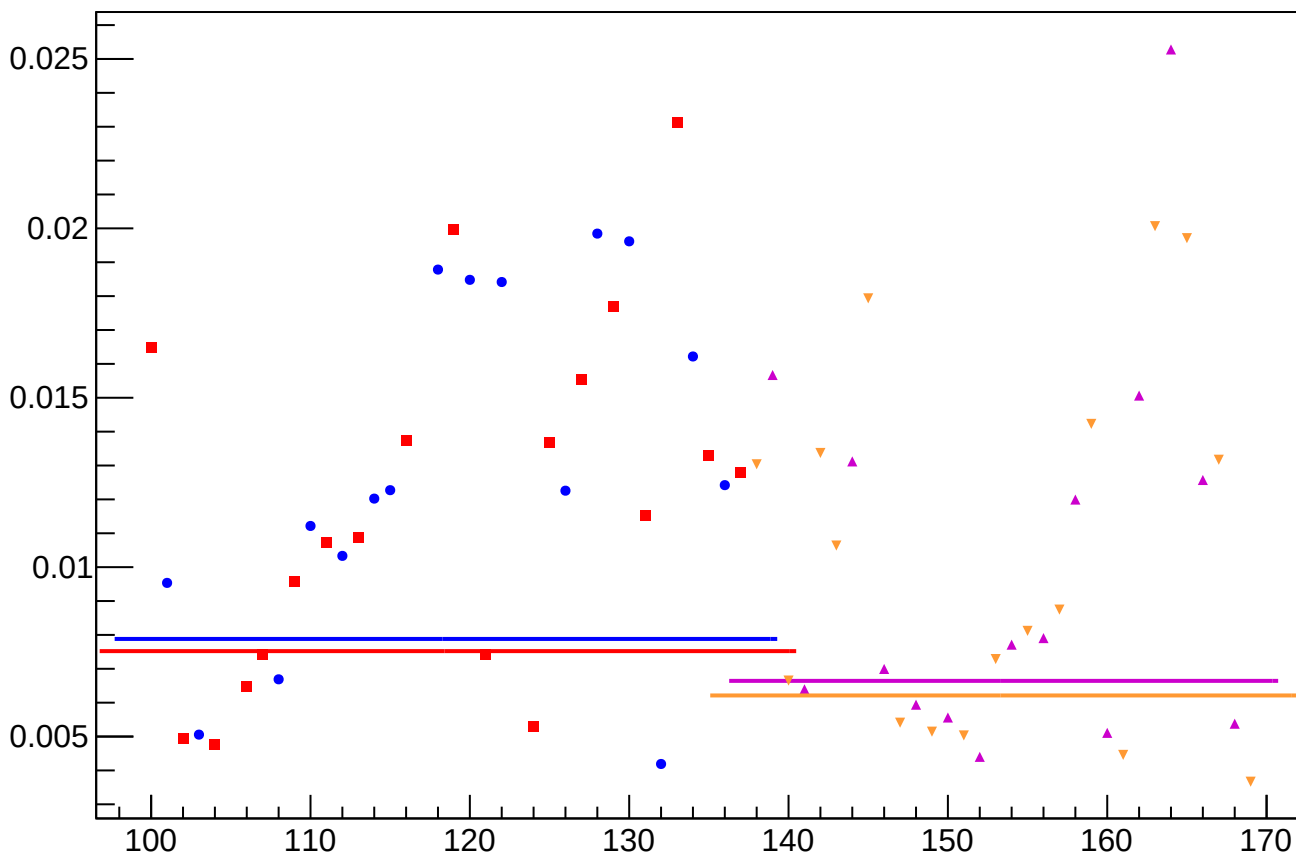
Right: -0.000+/-0.000 χ^2/NDF : 35.5/34

In: -0.000+/-0.000 χ^2/NDF : 26.4/30

Out: -0.000+/-0.000 χ^2/NDF : 50.9/35

All: -0.000+/-0.000 χ^2/NDF : 78.0/66

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 3301734.3/15

Left Out: 0.006+/-0.000 χ^2/NDF : 5270250.8/16

Right Out: 0.008+/-0.000 χ^2/NDF : 2975331.6/18

Left In: 0.007+/-0.000 χ^2/NDF : 3386709.5/14

Left: 0.006+/-0.000 χ^2/NDF : 8700881.4/31

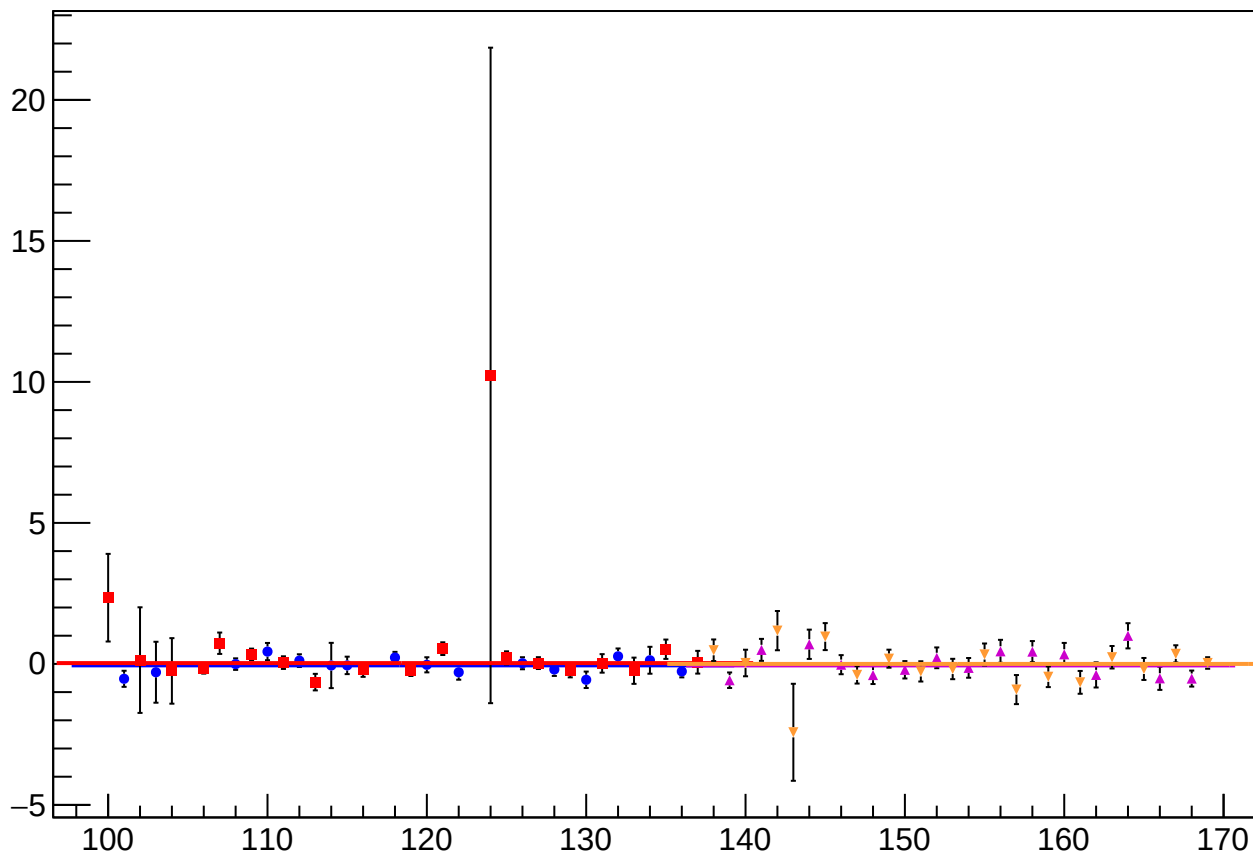
Right: 0.008+/-0.000 χ^2/NDF : 6289175.2/34

In: 0.007+/-0.000 χ^2/NDF : 6877372.5/30

Out: 0.007+/-0.000 χ^2/NDF : 8497006.6/35

All: 0.007+/-0.000 χ^2/NDF : 15433426.8/66

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.051 ± 0.067 χ^2/NDF : 14.9/15

Left Out: -0.001 ± 0.089 χ^2/NDF : 23.3/16

Right Out: 0.029 ± 0.064 χ^2/NDF : 27.5/18

Left In: -0.054 ± 0.093 χ^2/NDF : 23.9/14

Left: -0.026 ± 0.064 χ^2/NDF : 47.4/31

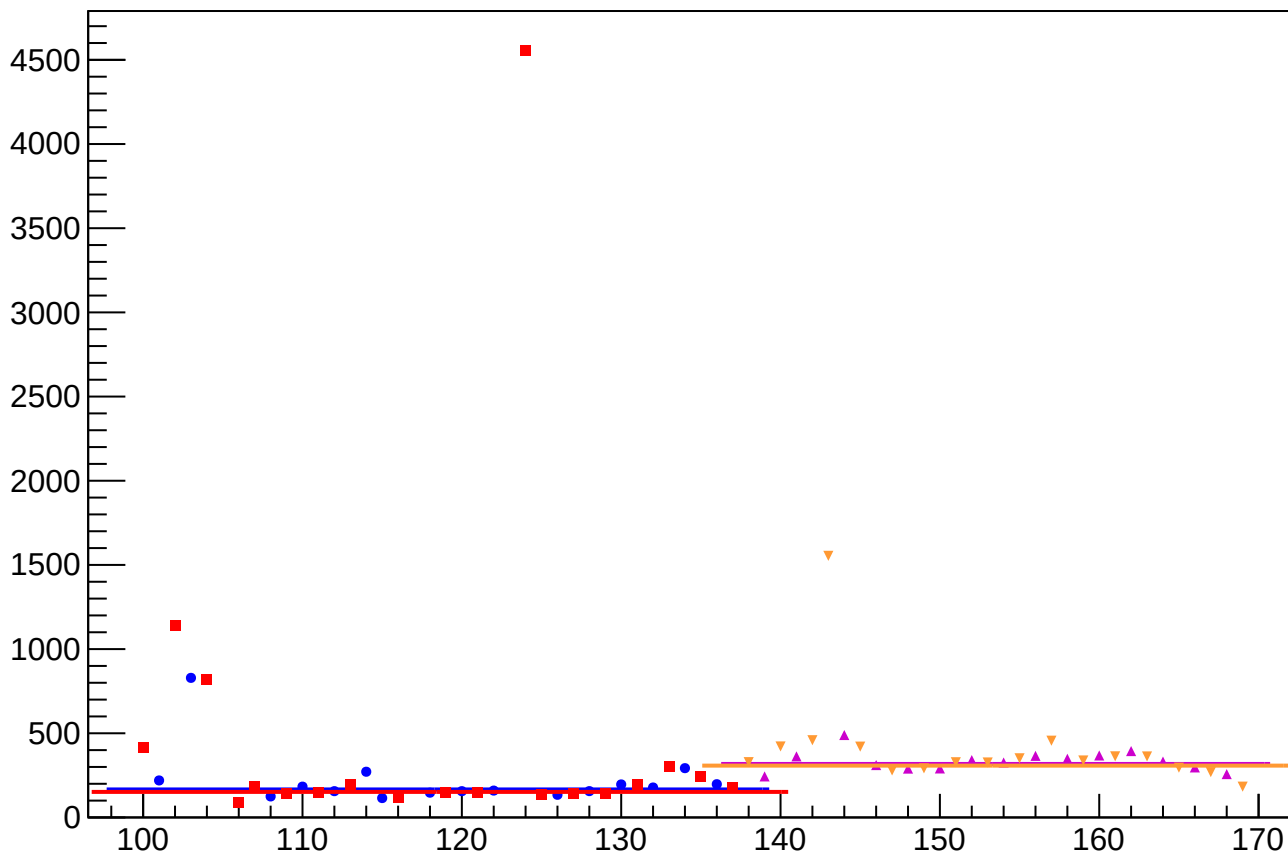
Right: -0.009 ± 0.046 χ^2/NDF : 43.2/34

In: -0.052 ± 0.054 χ^2/NDF : 38.8/30

Out: 0.019 ± 0.052 χ^2/NDF : 50.9/35

All: -0.015 ± 0.038 χ^2/NDF : 90.6/66

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 166.359+/-0.047 χ^2/NDF : 1282724.2/15

Left Out: 307.897+/-0.063 χ^2/NDF : 2465900.8/16

Right Out: 151.790+/-0.045 χ^2/NDF : 2315641.8/18

Left In: 317.762+/-0.066 χ^2/NDF : 658455.9/14

Left: 312.637+/-0.046 χ^2/NDF : 3136066.7/31

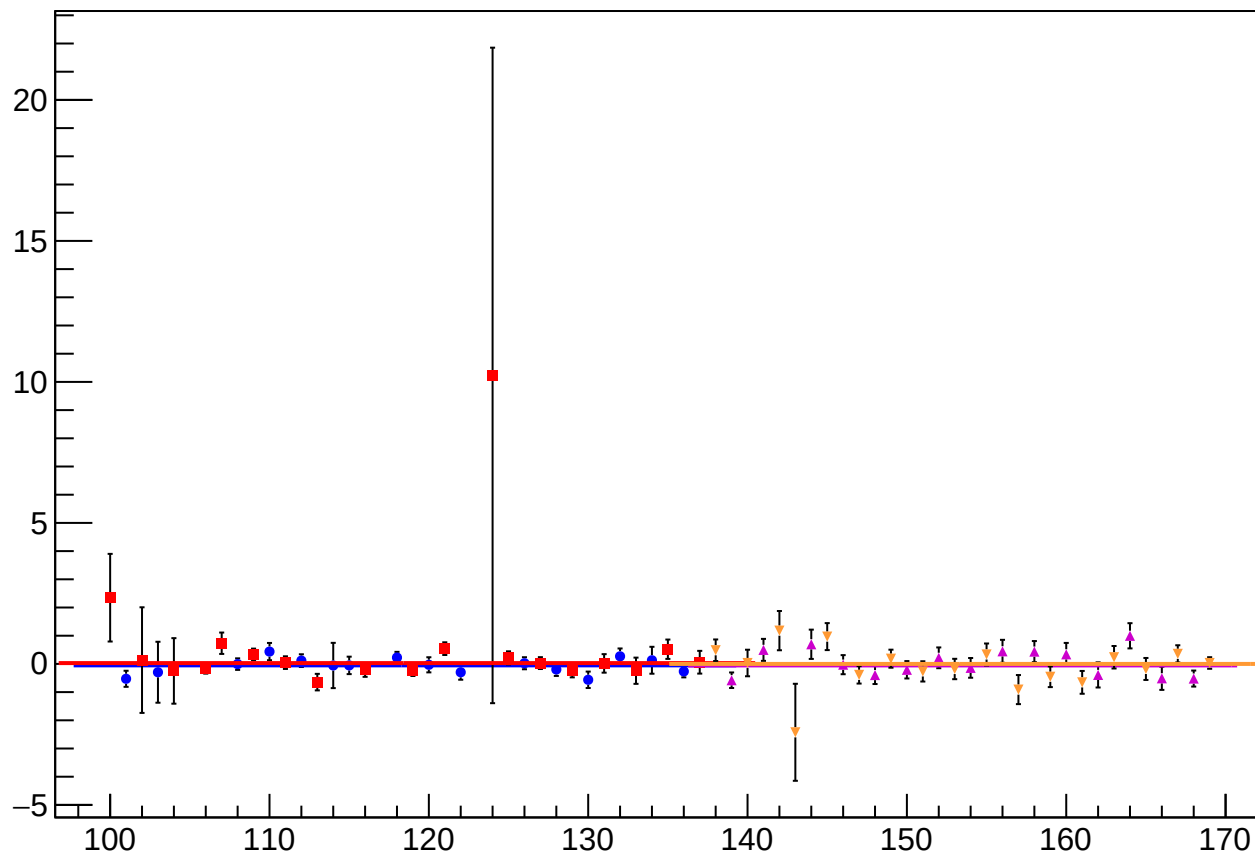
Right: 158.773+/-0.033 χ^2/NDF : 3648012.6/34

In: 217.867+/-0.038 χ^2/NDF : 5444075.4/30

Out: 204.738+/-0.037 χ^2/NDF : 8814725.1/35

All: 211.036+/-0.027 χ^2/NDF : 14319856.0/66

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.051 ± 0.067 $\chi^2/\text{NDF}: 14.9/15$

Left Out: -0.001 ± 0.089 $\chi^2/\text{NDF}: 23.3/16$

Right Out: 0.029 ± 0.064 $\chi^2/\text{NDF}: 27.5/18$

Left In: -0.054 ± 0.093 $\chi^2/\text{NDF}: 23.9/14$

Left: -0.026 ± 0.064 $\chi^2/\text{NDF}: 47.4/31$

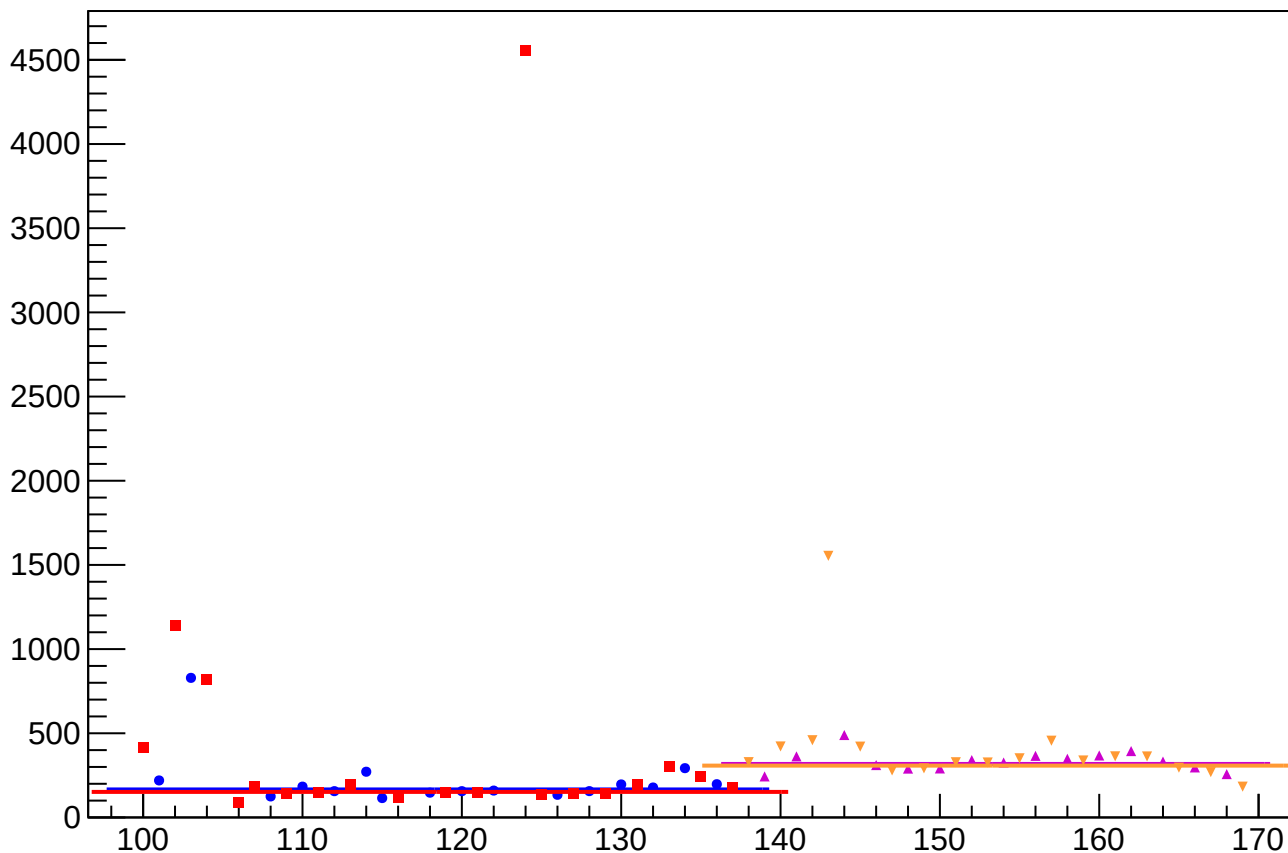
Right: -0.009 ± 0.046 $\chi^2/\text{NDF}: 43.2/34$

In: -0.052 ± 0.054 $\chi^2/\text{NDF}: 38.8/30$

Out: 0.019 ± 0.052 $\chi^2/\text{NDF}: 50.9/35$

All: -0.015 ± 0.038 $\chi^2/\text{NDF}: 90.6/66$

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 166.359+/-0.047 χ^2/NDF : 1282724.2/15

Left Out: 307.897+/-0.063 χ^2/NDF : 2465900.8/16

Right Out: 151.790+/-0.045 χ^2/NDF : 2315641.8/18

Left In: 317.762+/-0.066 χ^2/NDF : 658455.9/14

Left: 312.637+/-0.046 χ^2/NDF : 3136066.7/31

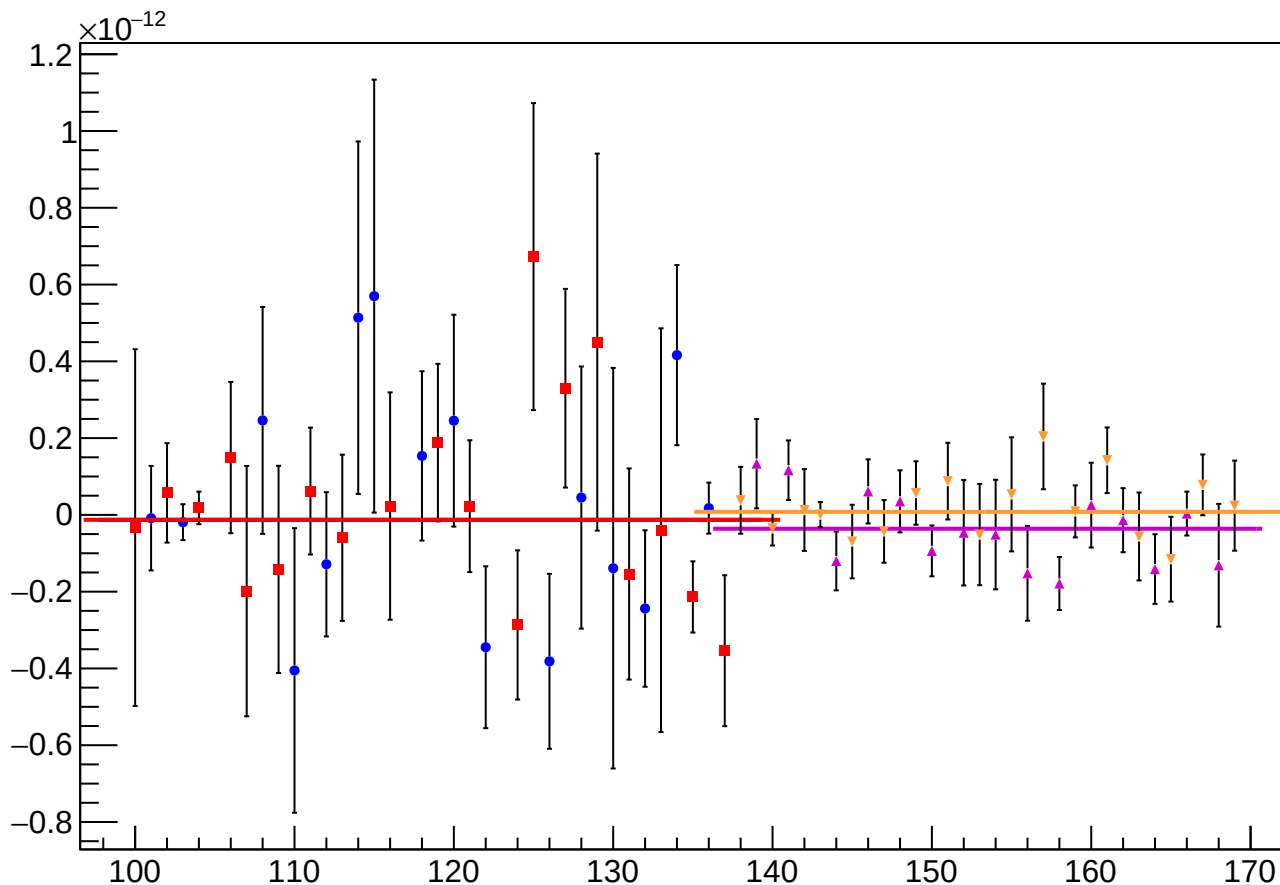
Right: 158.773+/-0.033 χ^2/NDF : 3648012.6/34

In: 217.867+/-0.038 χ^2/NDF : 5444075.4/30

Out: 204.738+/-0.037 χ^2/NDF : 8814725.1/35

All: 211.036+/-0.027 χ^2/NDF : 14319856.0/66

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 10.3/16

Right Out: -0.000+/-0.000 χ^2/NDF : 18.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 17.8/14

Left: -0.000+/-0.000 χ^2/NDF : 30.5/31

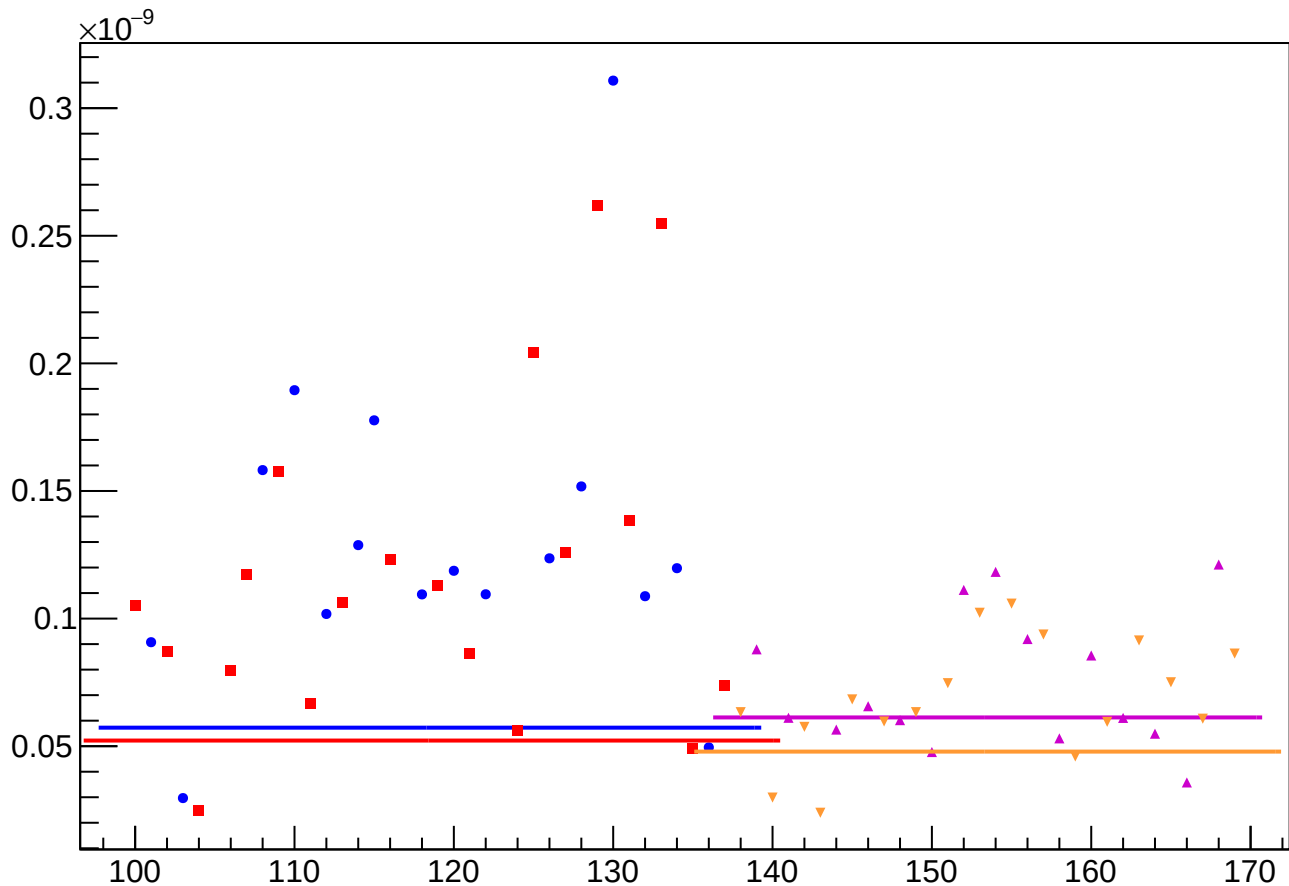
Right: -0.000+/-0.000 χ^2/NDF : 35.0/34

In: -0.000+/-0.000 χ^2/NDF : 34.3/30

Out: 0.000+/-0.000 χ^2/NDF : 29.5/35

All: -0.000+/-0.000 χ^2/NDF : 65.5/66

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2983121.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :3415109.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3287828.4/18

Left In: 0.000+/-0.000 χ^2/NDF :1723344.2/14

Left: 0.000+/-0.000 χ^2/NDF : 5573120.0/31

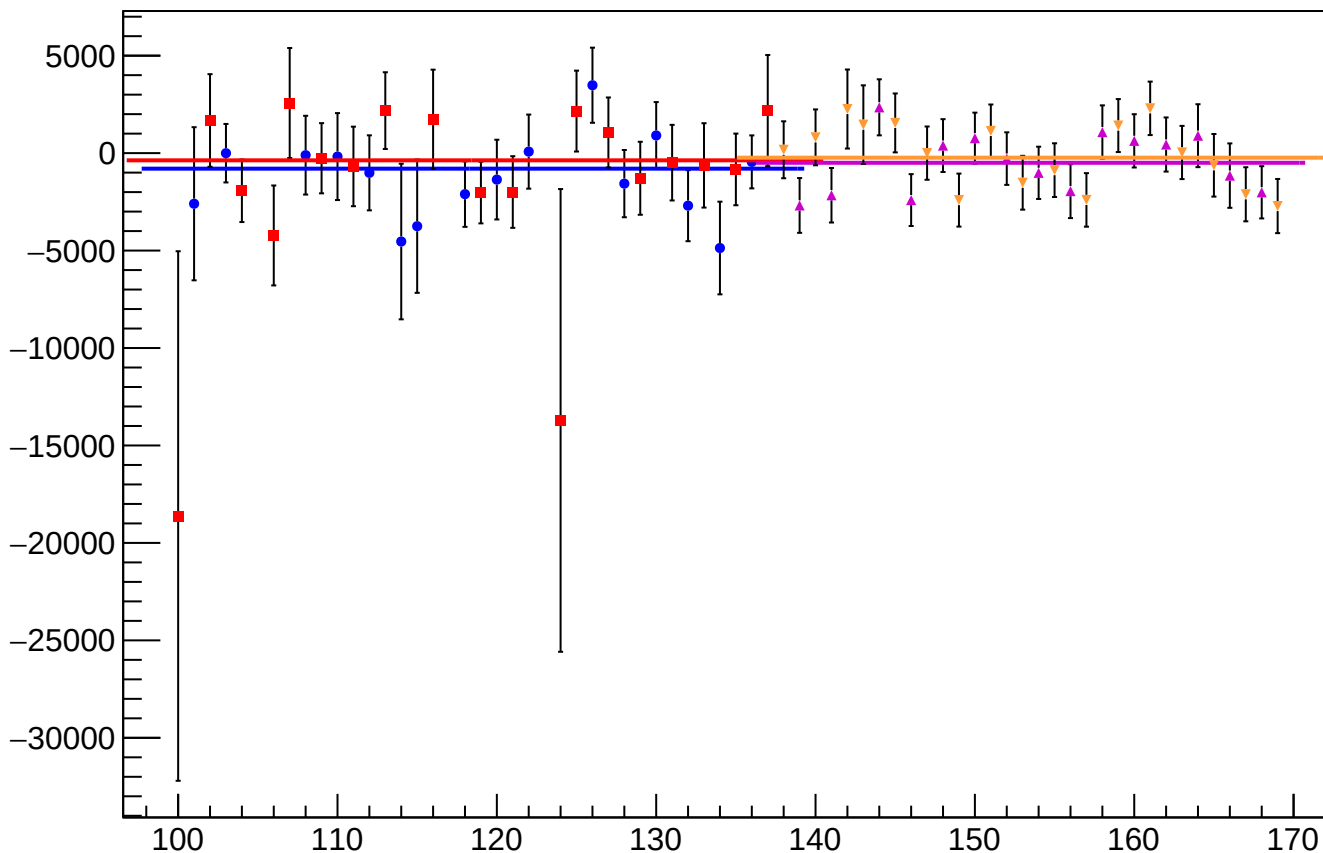
Right: 0.000+/-0.000 χ^2/NDF : 6295515.7/34

In: 0.000+/-0.000 χ^2/NDF :4726761.5/30

Out: 0.000+/-0.000 χ^2/NDF :6731340.6/35

All: 0.000+/-0.000 χ^2/NDF : 11874527.6/66

reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -797.285 ± 487.453 $\chi^2/\text{NDF}: 13.4/15$

Left Out: -233.732 ± 351.019 $\chi^2/\text{NDF}: 21.4/16$

Right Out: -370.010 ± 485.826 $\chi^2/\text{NDF}: 15.6/18$

Left In: -495.809 ± 360.086 $\chi^2/\text{NDF}: 17.1/14$

Left: -361.429 ± 251.352 $\chi^2/\text{NDF}: 38.8/31$

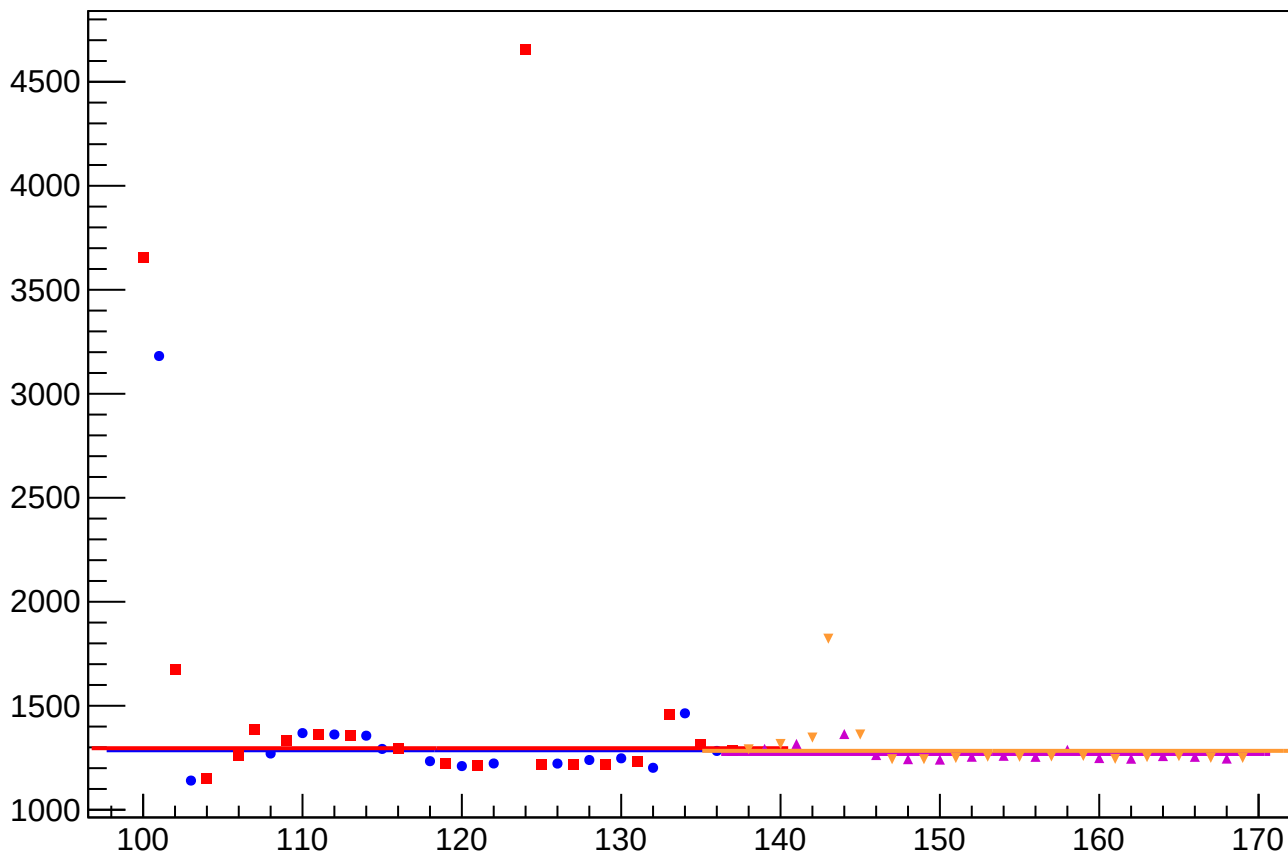
Right: -582.933 ± 344.105 $\chi^2/\text{NDF}: 29.4/34$

In: -602.242 ± 289.631 $\chi^2/\text{NDF}: 30.7/30$

Out: -280.474 ± 284.523 $\chi^2/\text{NDF}: 37.1/35$

All: -438.496 ± 202.970 $\chi^2/\text{NDF}: 68.4/66$

reg_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1286.097+/-0.345 χ^2/NDF : 518126.9/15

Left Out: 1283.255+/-0.248 χ^2/NDF : 164800.9/16

Right Out: 1295.943+/-0.344 χ^2/NDF : 328069.9/18

Left In: 1268.223+/-0.255 χ^2/NDF : 16085.4/14

Left: 1275.930+/-0.178 χ^2/NDF : 182673.6/31

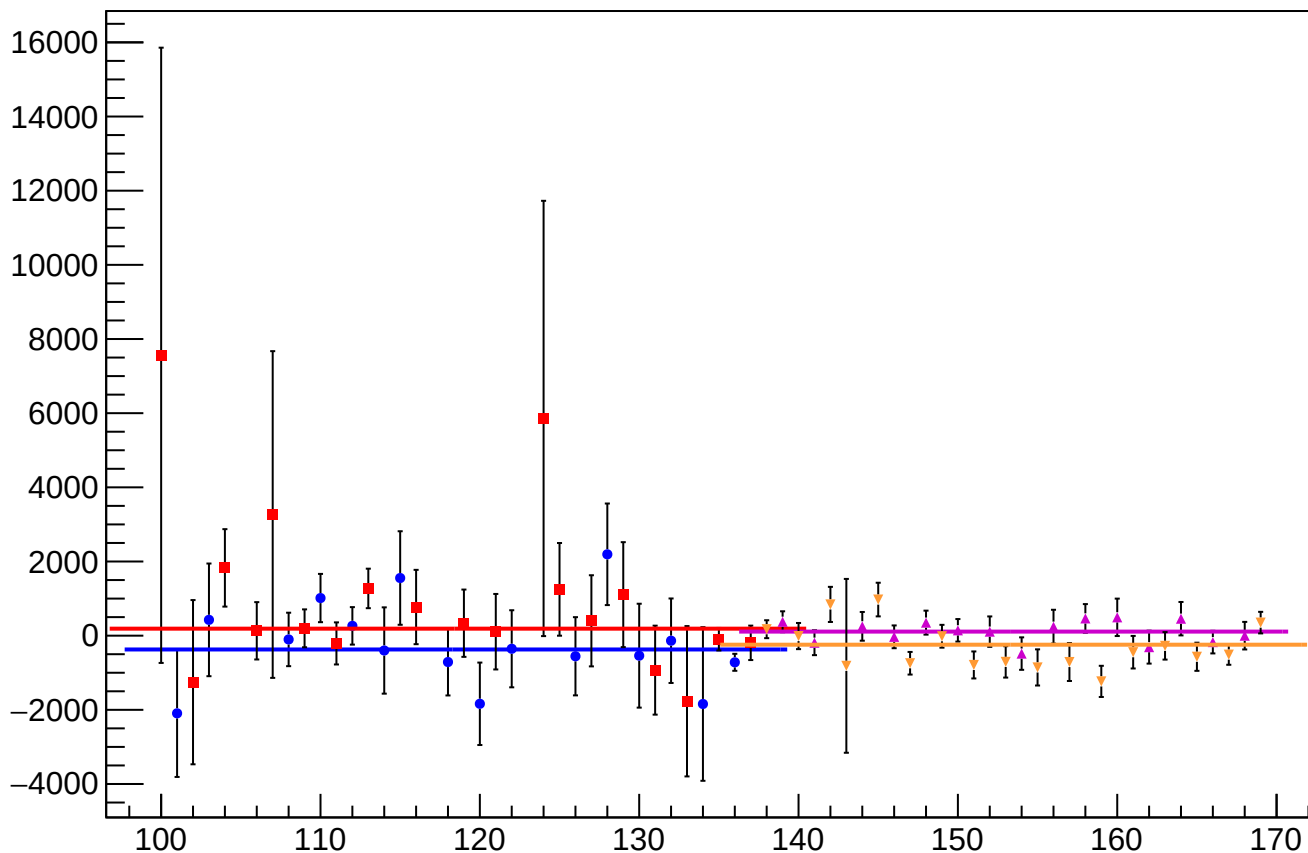
Right: 1291.036+/-0.243 χ^2/NDF : 846606.2/34

In: 1274.533+/-0.205 χ^2/NDF : 535952.2/30

Out: 1287.607+/-0.201 χ^2/NDF : 493767.1/35

All: 1281.186+/-0.144 χ^2/NDF : 1031793.1/66

asym_atl_avg_atr_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -372.325+/-168.204 χ^2/NDF : 18.2/15

Left Out: -243.696+/-88.603 χ^2/NDF : 36.7/16

Right Out: 188.945+/-169.575 χ^2/NDF : 14.6/18

Left In: 109.664+/-93.791 χ^2/NDF : 8.4/14

Left: -77.059+/-64.407 χ^2/NDF : 52.6/31

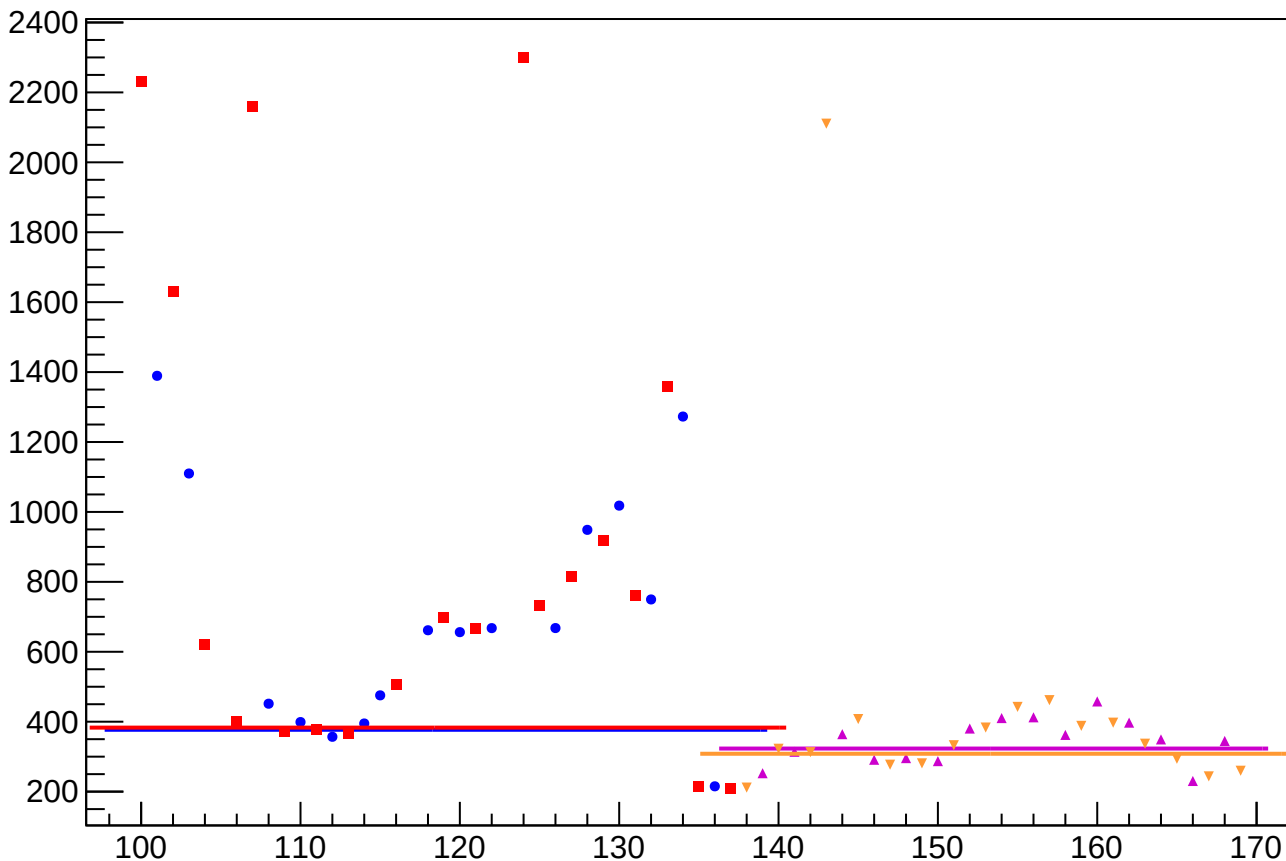
Right: -93.969+/-119.420 χ^2/NDF : 38.3/34

In: -4.652+/-81.916 χ^2/NDF : 32.8/30

Out: -150.914+/-78.529 χ^2/NDF : 56.5/35

All: -80.869+/-56.688 χ^2/NDF : 90.9/66

asym_atl_avg_atr_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 376.893+/-0.119 χ^2/NDF : 4190194.7/15

Left Out: 308.292+/-0.063 χ^2/NDF : 2378878.5/16

Right Out: 383.074+/-0.120 χ^2/NDF : 4054121.5/18

Left In: 323.177+/-0.066 χ^2/NDF : 825595.6/14

Left: 315.312+/-0.046 χ^2/NDF : 3231093.8/31

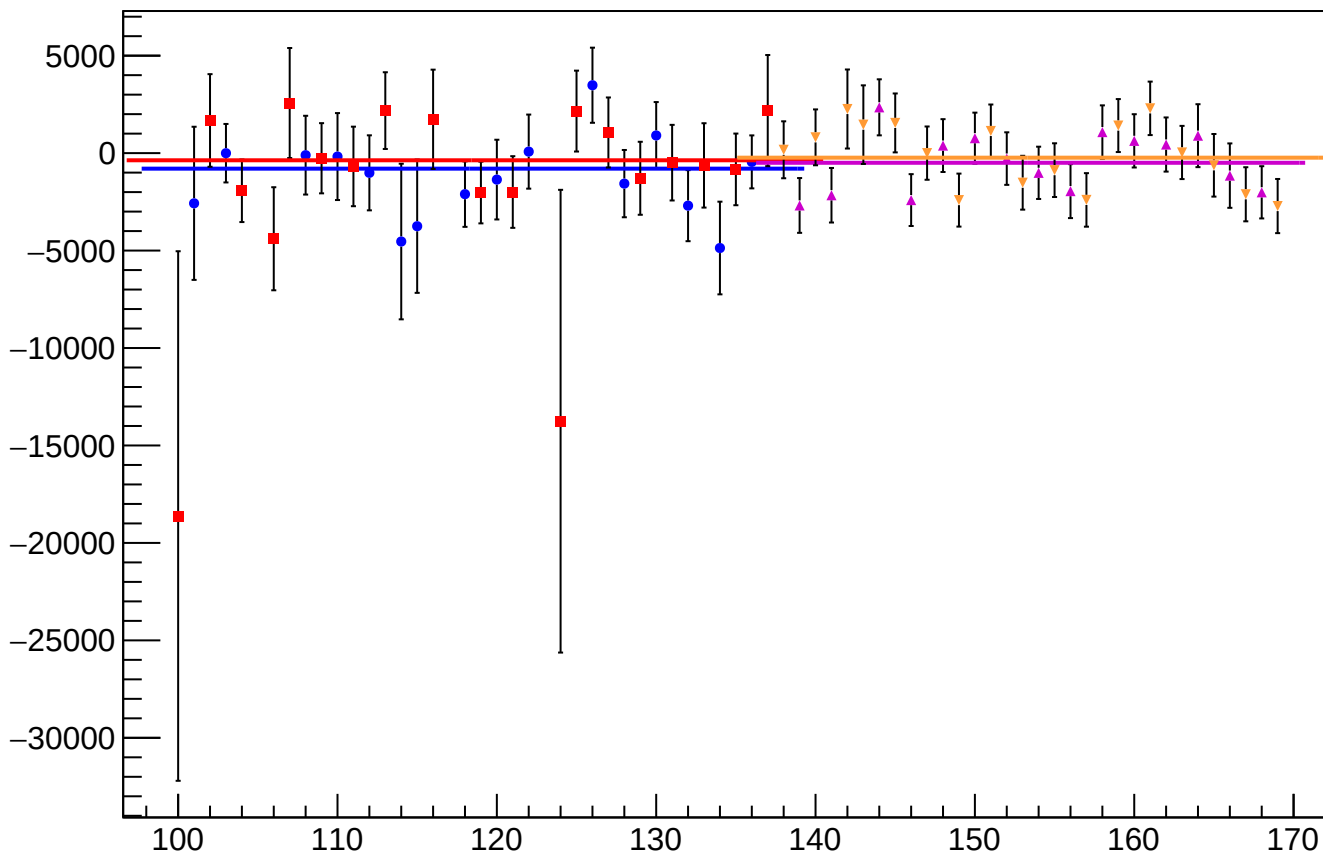
Right: 379.958+/-0.084 χ^2/NDF : 8245655.7/34

In: 335.917+/-0.058 χ^2/NDF : 5171379.6/30

Out: 324.329+/-0.056 χ^2/NDF : 6738539.6/35

All: 329.879+/-0.040 χ^2/NDF : 11930774.5/60

cor_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -796.883+/-487.454 χ^2/NDF : 13.4/15

Left Out: -233.682+/-351.019 χ^2/NDF :21.4/16

Right Out: -367.476+/-486.348 χ^2/NDF : 15.7/18

Left In: -495.775+/-360.086 χ^2/NDF :17.1/14

Left: -361.387+/-251.352 χ^2/NDF : 38.8/31

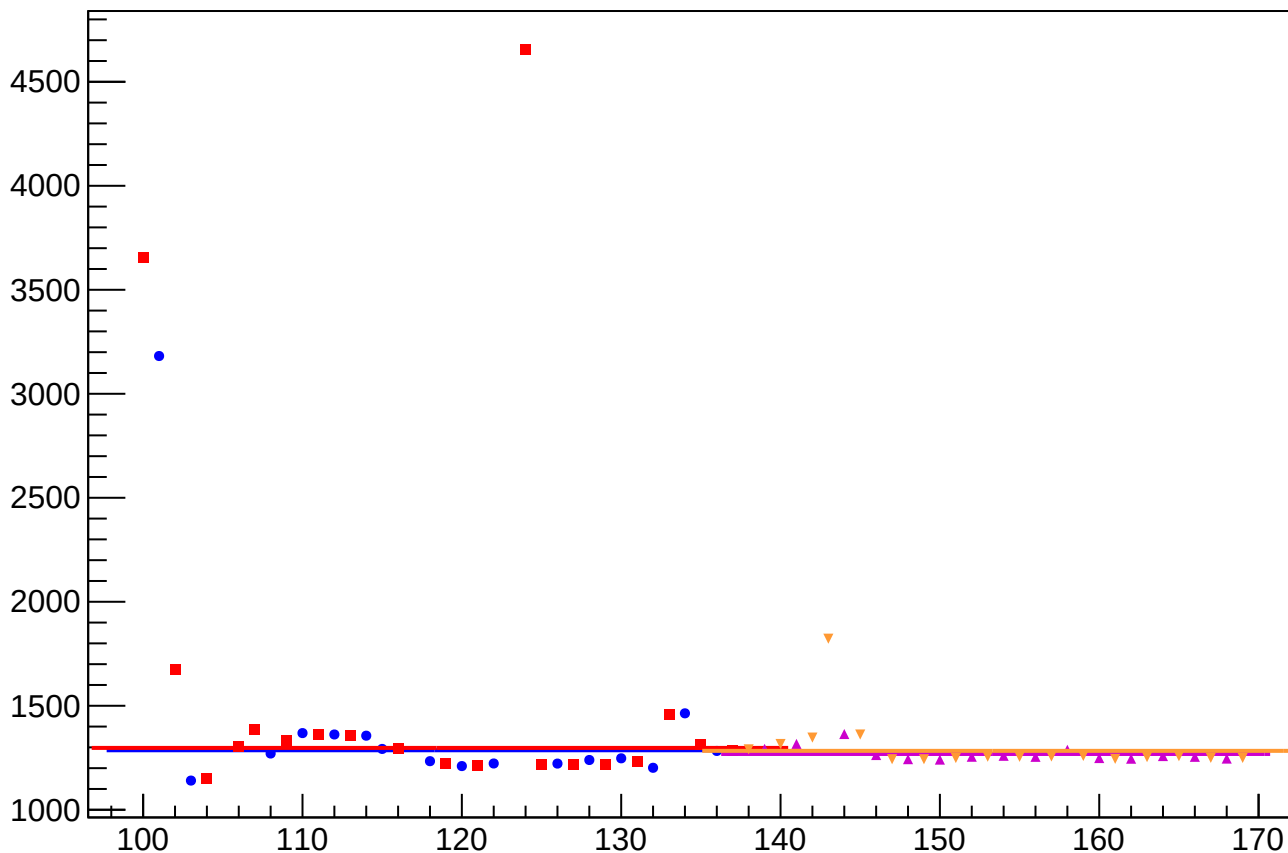
Right: -581.692+/-344.290 χ^2/NDF : 29.5/34

In: -602.078+/-289.631 χ^2/NDF :30.7/30

Out: -279.507+/-284.628 χ^2/NDF :37.1/35

All: -437.982+/-203.008 χ^2/NDF : 68.5/66

cor_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1286.097 $\pm$ 0.345 χ^2 /NDF: 518128.4/15

Left Out: 1283.255 $\pm$ 0.248 χ^2 /NDF:164800.9/16

Right Out: 1297.394 $\pm$ 0.344 χ^2 /NDF: 327741.7/18

Left In: 1268.223 $\pm$ 0.255 χ^2 /NDF:16085.4/14

Left: 1275.930 $\pm$ 0.178 χ^2 /NDF: 182673.6/31

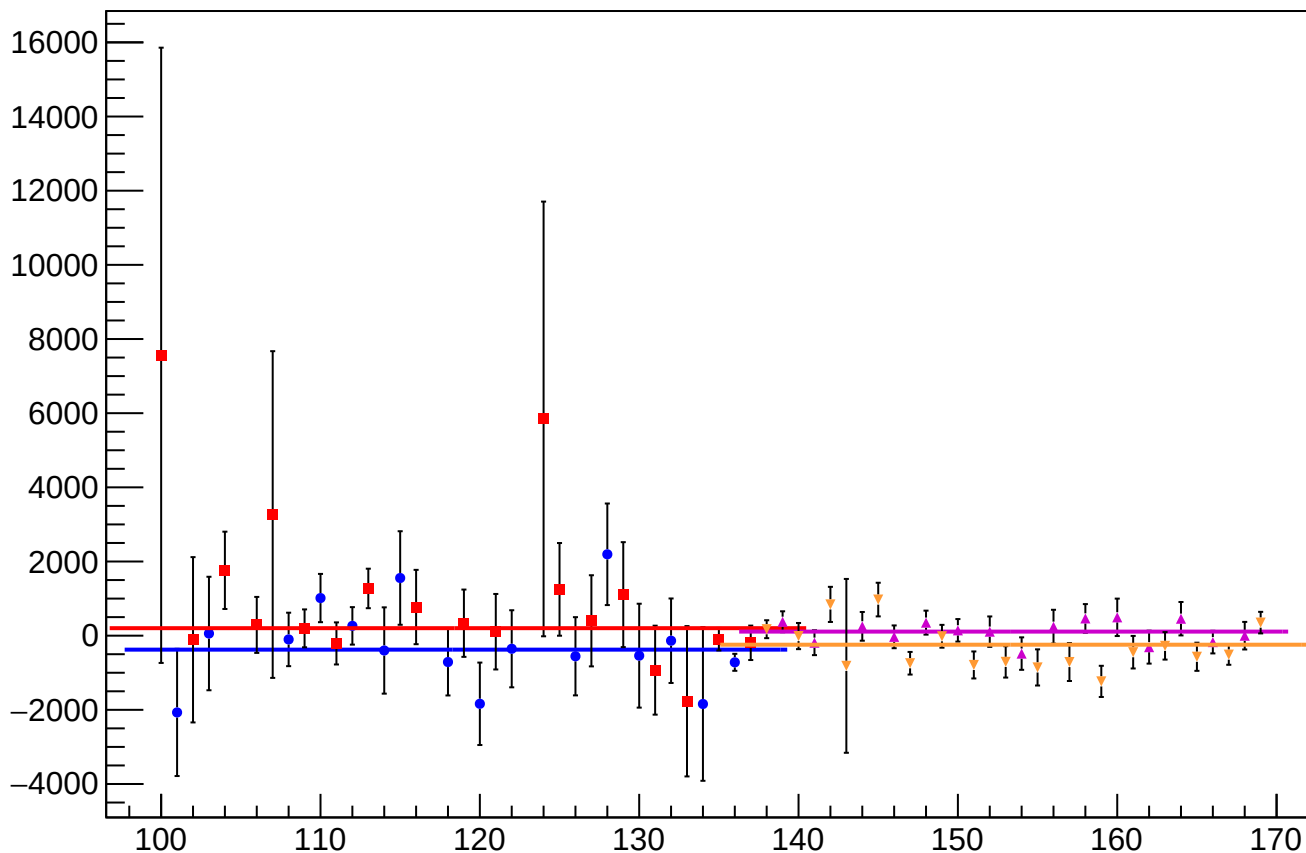
Right: 1291.758 $\pm$ 0.243 χ^2 /NDF: 846408.4/34

In: 1274.533 $\pm$ 0.205 χ^2 /NDF:535953.6/30

Out: 1288.097 $\pm$ 0.201 χ^2 /NDF:493654.0/35

All: 1281.433 $\pm$ 0.144 χ^2 /NDF: 1031839.3/60

asym_atl_avg_atr_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -376.771 ± 168.223 χ^2/NDF : 17.9/15

Left Out: -243.704 ± 88.605 χ^2/NDF : 36.7/16

Right Out: 202.144 ± 169.377 χ^2/NDF : 14.0/18

Left In: 109.672 ± 93.791 χ^2/NDF : 8.4/14

Left: -77.055 ± 64.408 χ^2/NDF : 52.6/31

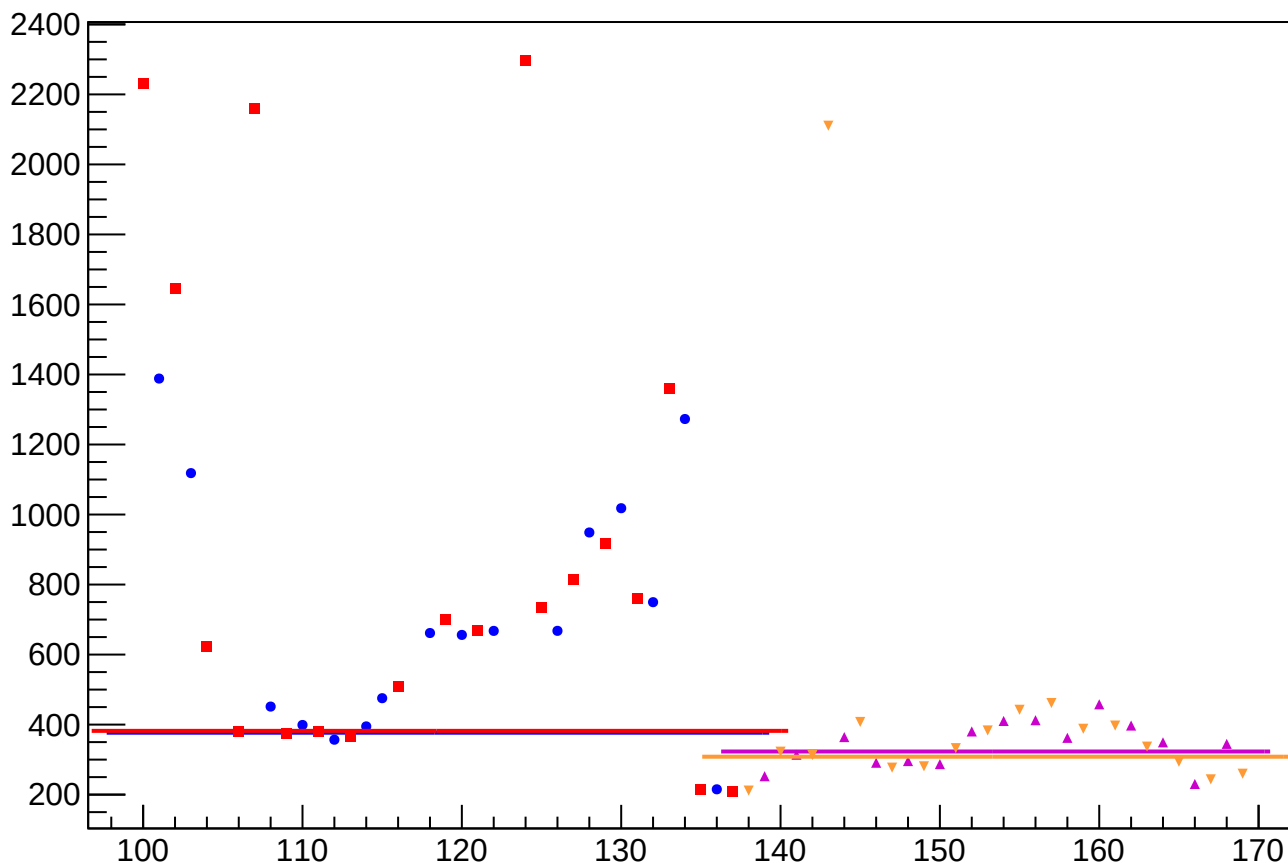
Right: -89.292 ± 119.358 χ^2/NDF : 37.9/34

In: -5.681 ± 81.919 χ^2/NDF : 32.7/30

Out: -147.910 ± 78.511 χ^2/NDF : 56.2/35

All: -79.815 ± 56.682 χ^2/NDF : 90.4/66

asym_atl_avg_atr_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 376.884+/-0.119 χ^2/NDF : 4193328.0/15

Left Out: 308.301+/-0.063 χ^2/NDF : 2378708.2/16

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 323.178+/-0.066 χ^2/NDF : 825714.2/14

Left: 315.317+/-0.046 χ^2/NDF : 3231009.4/31

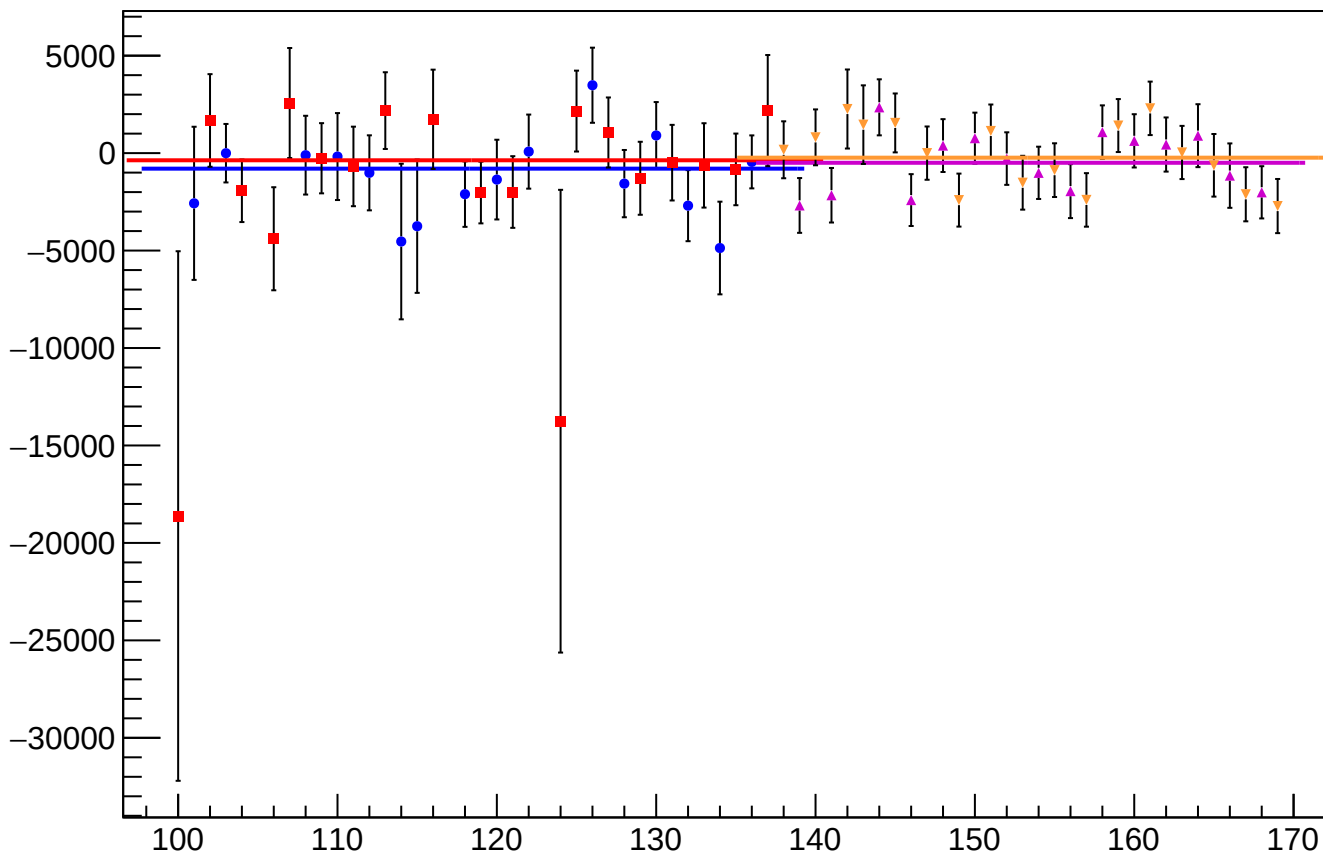
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 335.913+/-0.058 χ^2/NDF : 5174551.3/30

Out: 324.165+/-0.056 χ^2/NDF : 6736701.2/35

All: 329.790+/-0.040 χ^2/NDF : 11932692.0/60

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -796.883+/-487.454 χ^2/NDF : 13.4/15

Left Out: -233.682+/-351.019 χ^2/NDF :21.4/16

Right Out: -367.476+/-486.348 χ^2/NDF : 15.7/18

Left In: -495.775+/-360.086 χ^2/NDF :17.1/14

Left: -361.387+/-251.352 χ^2/NDF : 38.8/31

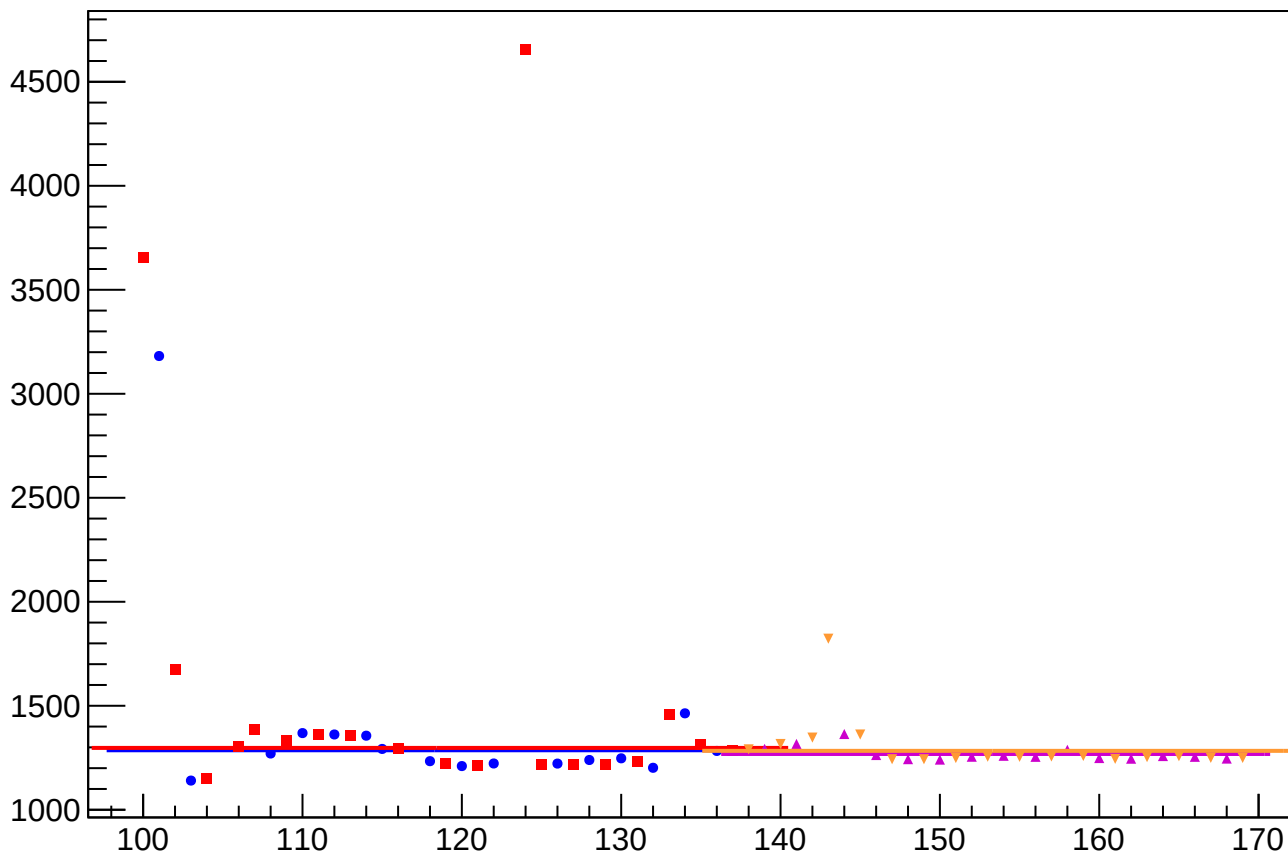
Right: -581.692+/-344.290 χ^2/NDF : 29.5/34

In: -602.078+/-289.631 χ^2/NDF :30.7/30

Out: -279.507+/-284.628 χ^2/NDF :37.1/35

All: -437.982+/-203.008 χ^2/NDF : 68.5/66

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1286.097+/-0.345 χ^2/NDF : 518128.4/15

Left Out: 1283.255+/-0.248 χ^2/NDF :164800.9/16

Right Out: 1297.394+/-0.344 χ^2/NDF : 327741.7/18

Left In: 1268.223+/-0.255 χ^2/NDF :16085.4/14

Left: 1275.930+/-0.178 χ^2/NDF : 182673.6/31

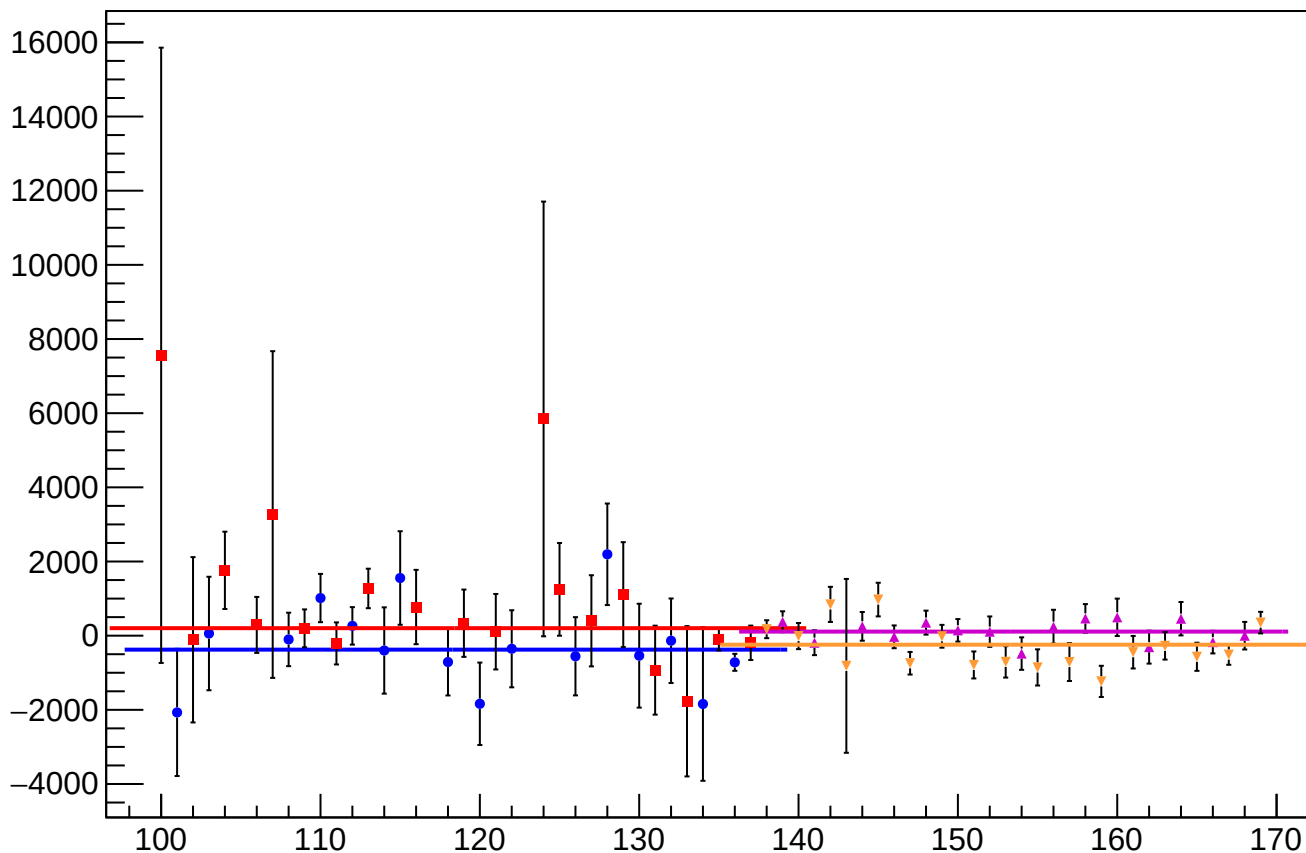
Right: 1291.758+/-0.243 χ^2/NDF : 846408.4/34

In: 1274.533+/-0.205 χ^2/NDF :535953.6/30

Out: 1288.097+/-0.201 χ^2/NDF :493654.0/35

All: 1281.433+/-0.144 χ^2/NDF : 1031839.3/66

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -376.771 ± 168.223 χ^2/NDF : 17.9/15

Left Out: -243.704 ± 88.605 χ^2/NDF : 36.7/16

Right Out: 202.144 ± 169.377 χ^2/NDF : 14.0/18

Left In: 109.672 ± 93.791 χ^2/NDF : 8.4/14

Left: -77.055 ± 64.408 χ^2/NDF : 52.6/31

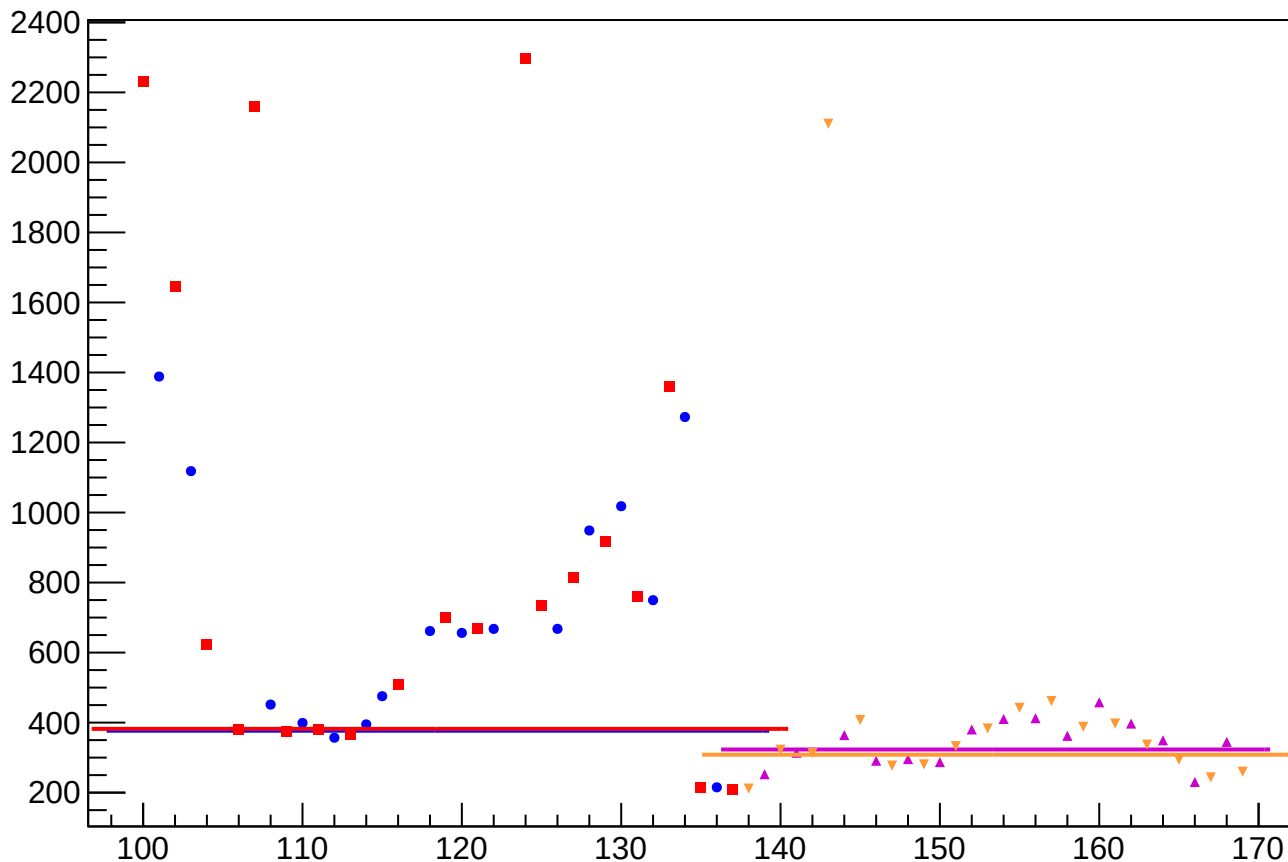
Right: -89.292 ± 119.358 χ^2/NDF : 37.9/34

In: -5.681 ± 81.919 χ^2/NDF : 32.7/30

Out: -147.910 ± 78.511 χ^2/NDF : 56.2/35

All: -79.815 ± 56.682 χ^2/NDF : 90.4/66

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 376.884+/-0.119 χ^2/NDF : 4193328.0/15

Left Out: 308.301+/-0.063 χ^2/NDF : 2378708.2/16

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 323.178+/-0.066 χ^2/NDF : 825714.2/14

Left: 315.317+/-0.046 χ^2/NDF : 3231009.4/31

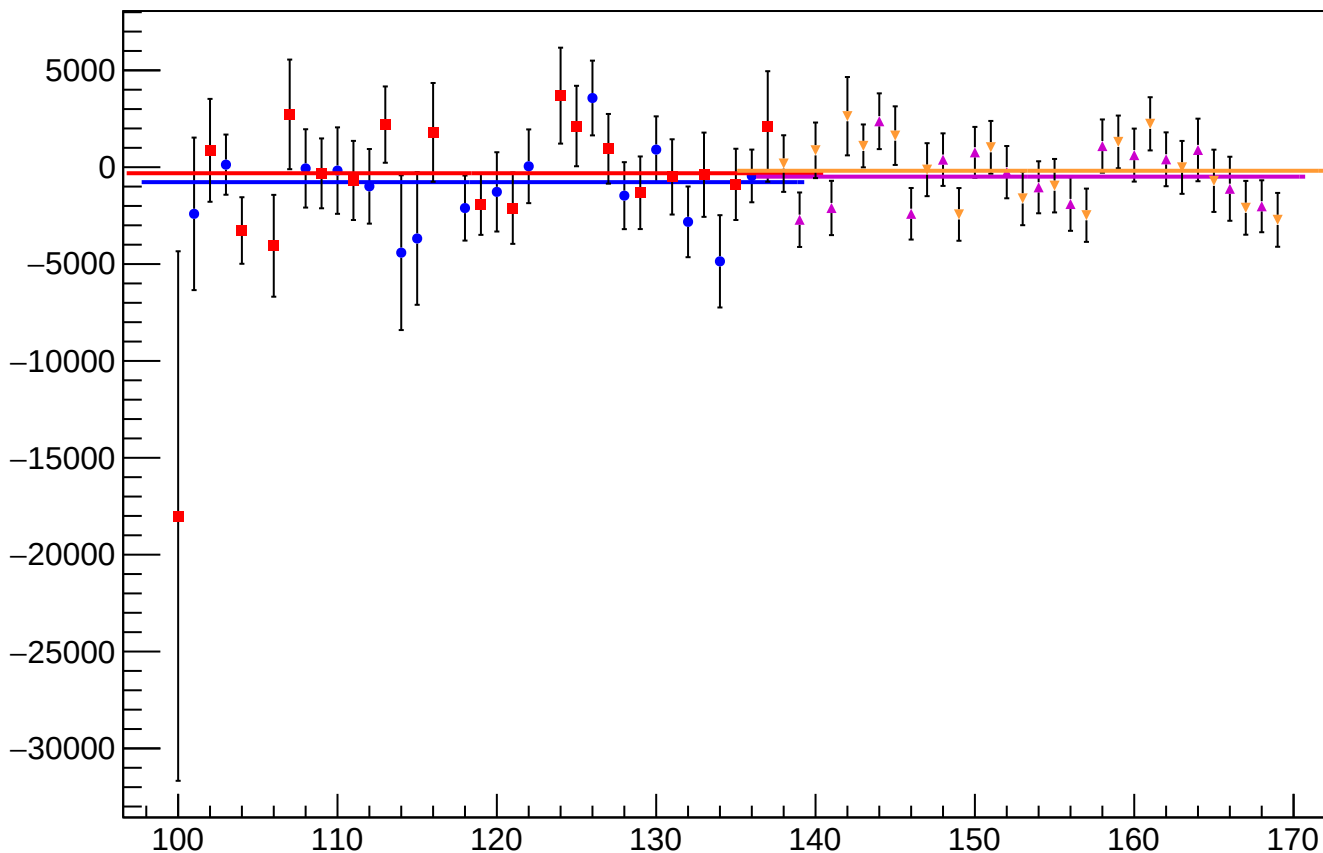
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 335.913+/-0.058 χ^2/NDF : 5174551.3/30

Out: 324.165+/-0.056 χ^2/NDF : 6736701.2/35

All: 329.790+/-0.040 χ^2/NDF : 11932692.0/60

dit_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -771.499+/-489.602 χ^2/NDF : 13.6/15

Left Out: -184.203+/-339.481 χ^2/NDF : 22.7/16

Right Out: -311.418+/-482.642 χ^2/NDF : 17.9/18

Left In: -488.459+/-360.350 χ^2/NDF : 17.0/14

Left: -327.266+/-247.098 χ^2/NDF : 40.1/31

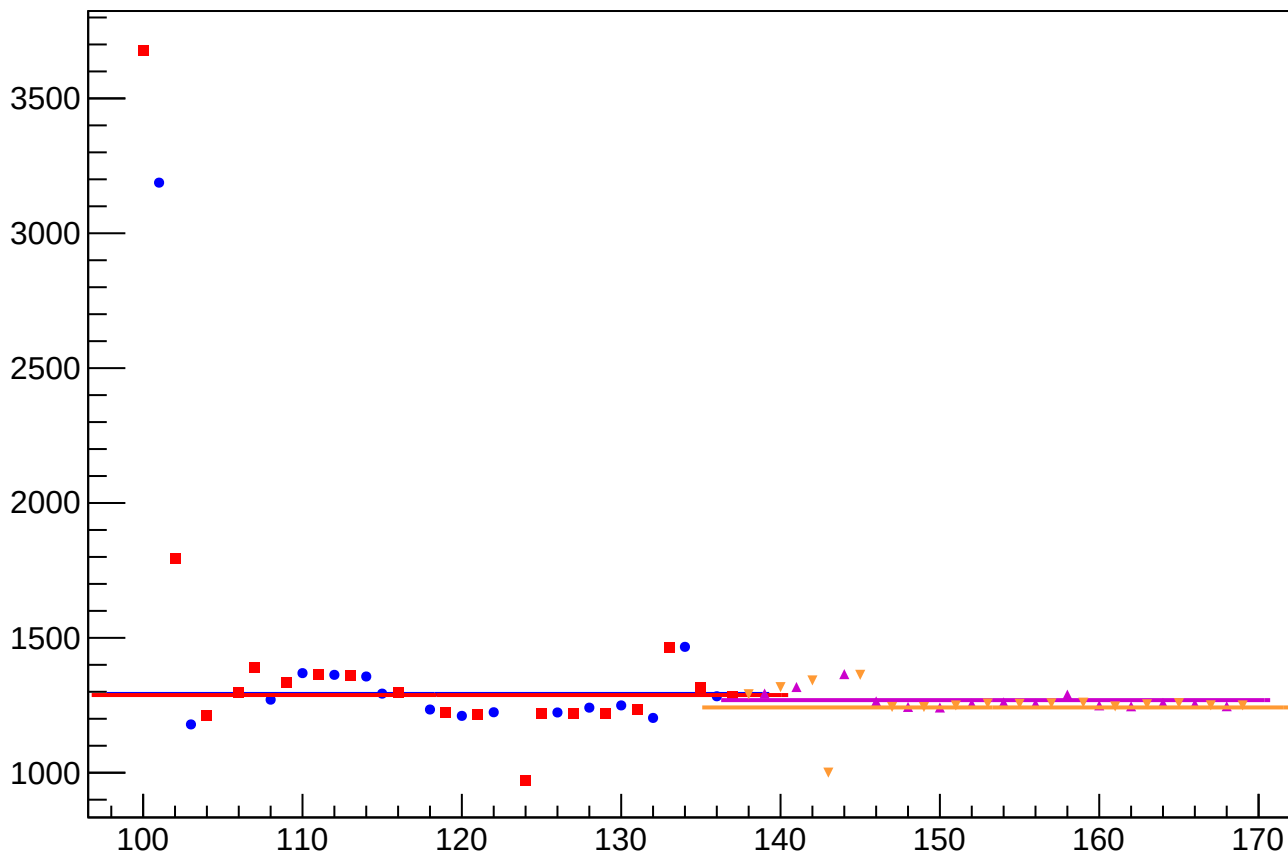
Right: -538.165+/-343.714 χ^2/NDF : 32.0/34

In: -587.909+/-290.218 χ^2/NDF : 30.8/30

Out: -226.310+/-277.672 χ^2/NDF : 40.7/35

All: -399.125+/-200.632 χ^2/NDF : 72.3/66

dit_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1292.038+/-0.346 χ^2/NDF : 509406.3/15

Left Out: 1242.037+/-0.240 χ^2/NDF : 122291.2/16

Right Out: 1287.988+/-0.341 χ^2/NDF : 209208.8/18

Left In: 1269.145+/-0.255 χ^2/NDF : 16208.2/14

Left: 1254.783+/-0.175 χ^2/NDF : 144495.6/31

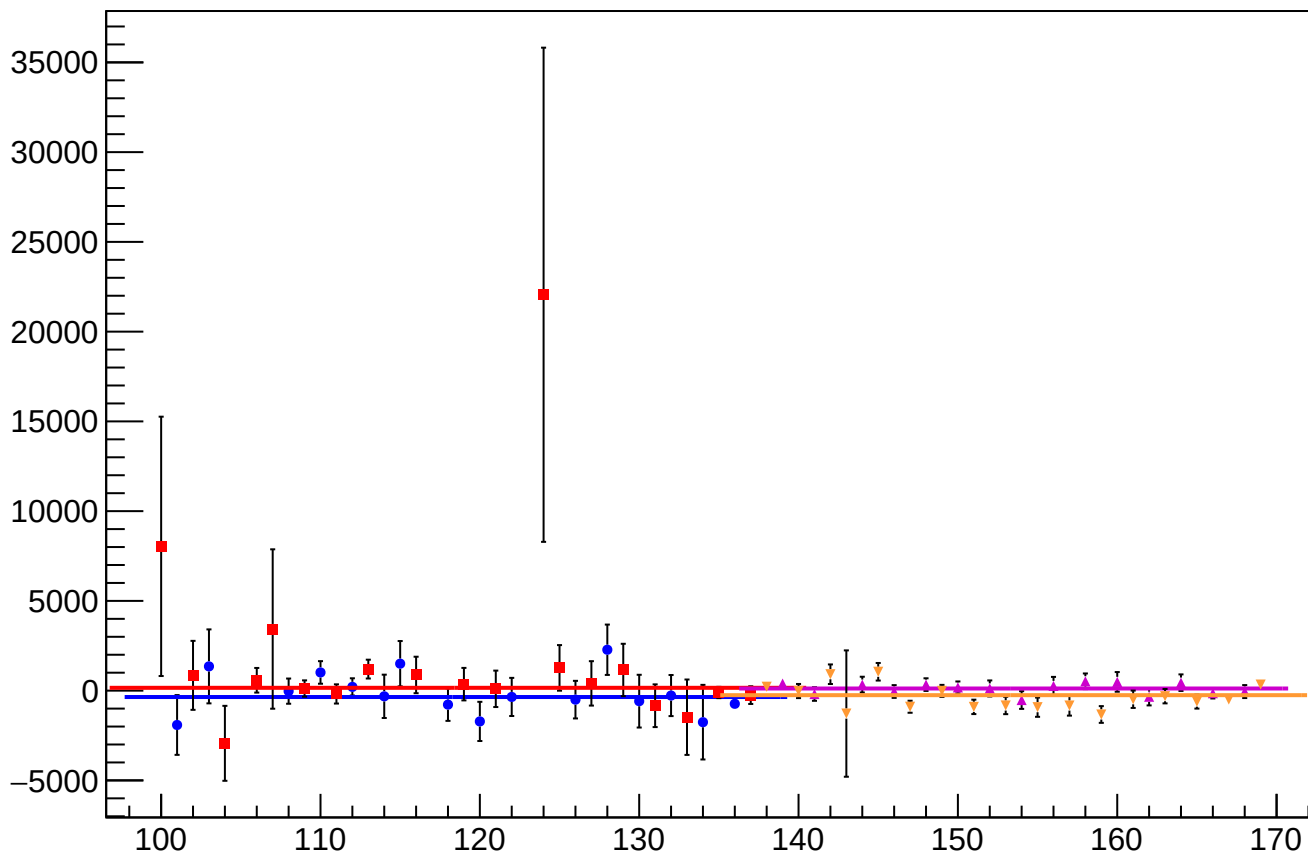
Right: 1289.984+/-0.243 χ^2/NDF : 718684.5/34

In: 1277.189+/-0.205 χ^2/NDF : 528450.7/30

Out: 1257.246+/-0.196 χ^2/NDF : 343628.6/35

All: 1266.777+/-0.142 χ^2/NDF : 877009.7/66

asym_atl_avg_atr_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226+/-169.971 χ^2/NDF : 18.4/15

Left Out: -252.283+/-93.160 χ^2/NDF :38.5/16

Right Out: 157.924+/-169.665 χ^2/NDF : 15.8/18

Left In: 119.218+/-99.769 χ^2/NDF :8.1/14

Left: -79.244+/-68.091 χ^2/NDF : 54.0/31

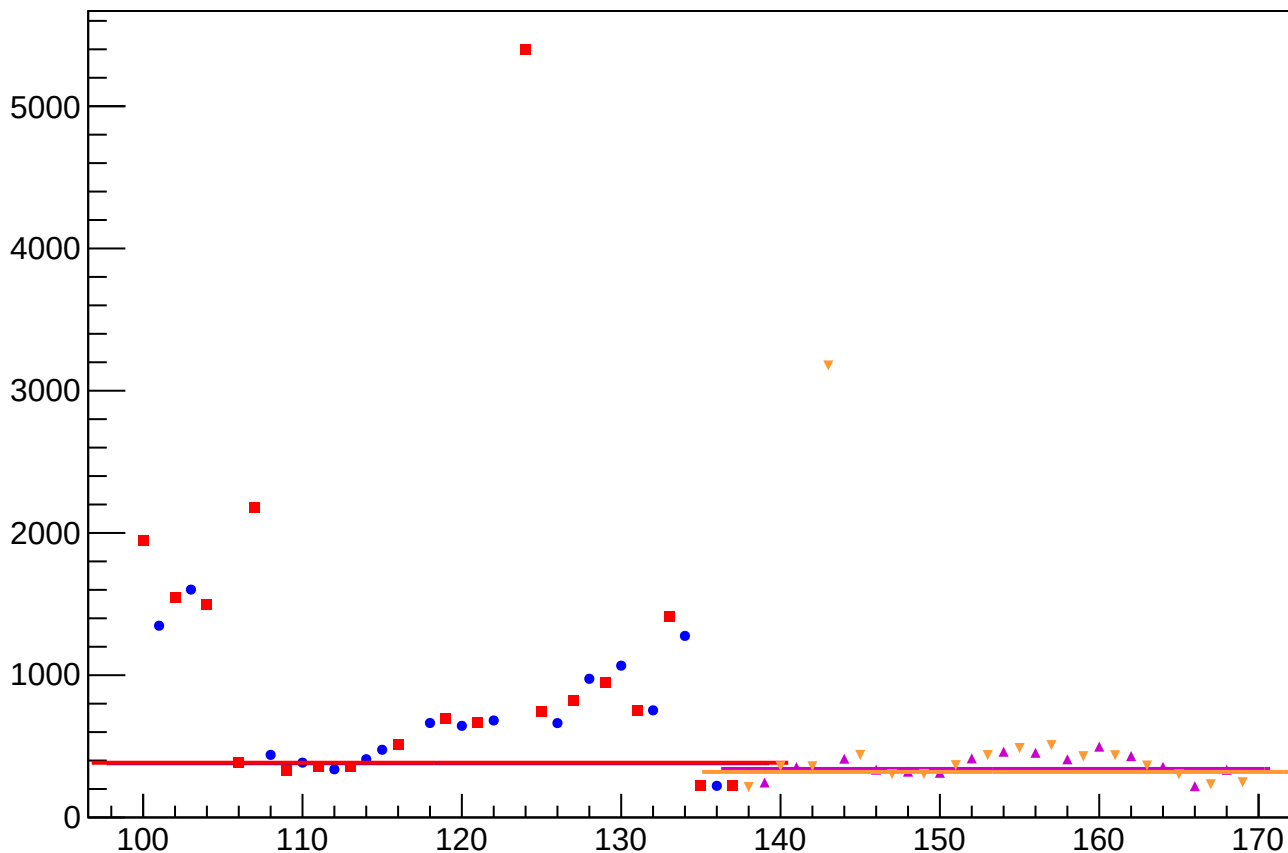
Right: -98.189+/-120.079 χ^2/NDF : 38.8/34

In: -2.360+/-86.042 χ^2/NDF :32.3/30

Out: -157.258+/-81.660 χ^2/NDF :58.9/35

All: -83.854+/-59.231 χ^2/NDF : 92.9/66

asym_atl_avg_atr_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 381.349+/-0.120 χ^2/NDF : 4317922.6/15

Left Out: 320.045+/-0.066 χ^2/NDF :3043071.6/16

Right Out: 384.651+/-0.120 χ^2/NDF : 4560208.6/18

Left In: 340.894+/-0.071 χ^2/NDF :1222240.6/14

Left: 329.756+/-0.048 χ^2/NDF : 4311966.9/31

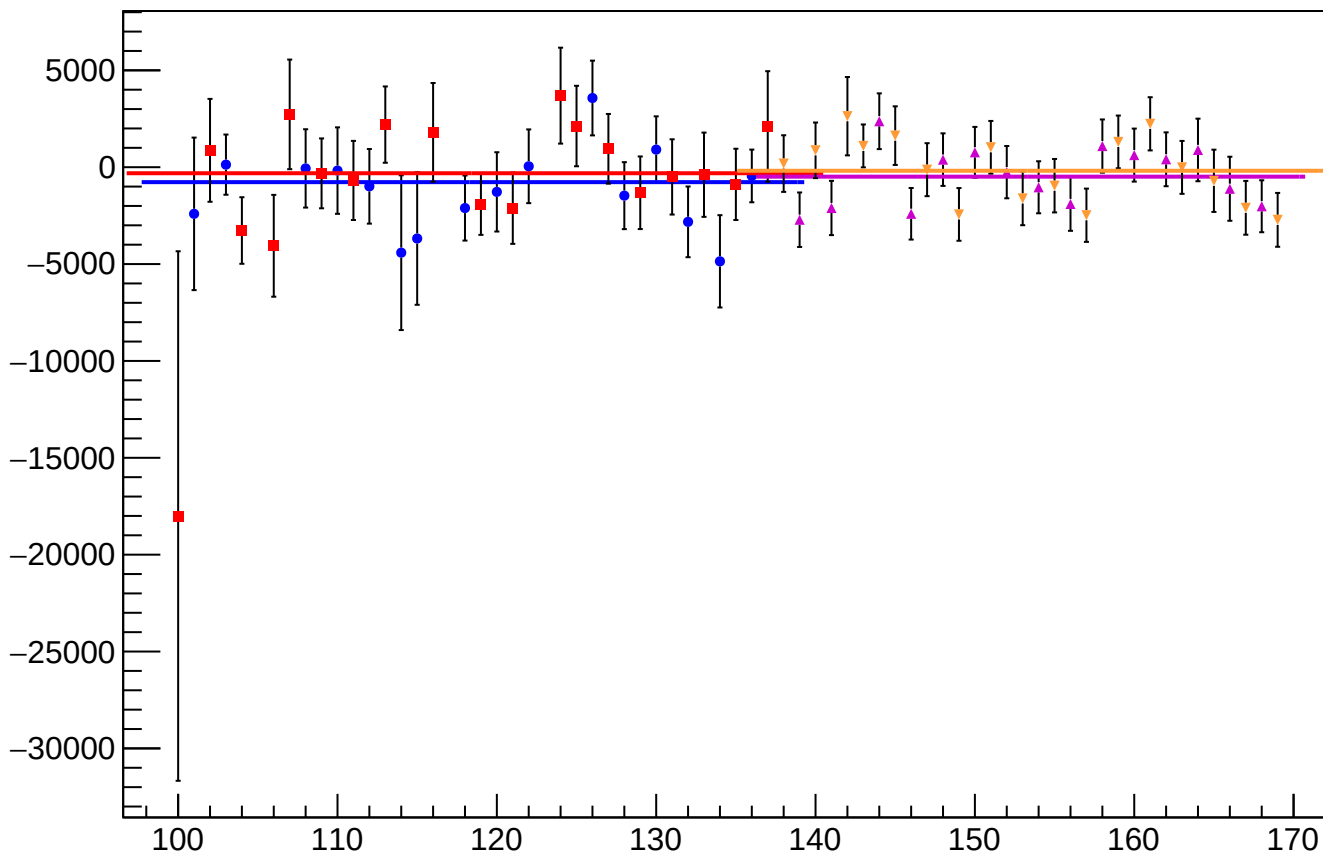
Right: 383.003+/-0.085 χ^2/NDF : 8878509.2/34

In: 351.261+/-0.061 χ^2/NDF :5624430.2/30

Out: 335.011+/-0.058 χ^2/NDF :7826093.0/35

All: 342.712+/-0.042 χ^2/NDF : 13488051.1/60

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -771.501 $\pm$ 489.602 χ^2 /NDF: 13.6/15

Left Out: -184.202 $\pm$ 339.481 χ^2 /NDF:22.7/16

Right Out: -311.419 $\pm$ 482.642 χ^2 /NDF: 17.9/18

Left In: -488.459 $\pm$ 360.350 χ^2 /NDF:17.0/14

Left: -327.266 $\pm$ 247.098 χ^2 /NDF: 40.1/31

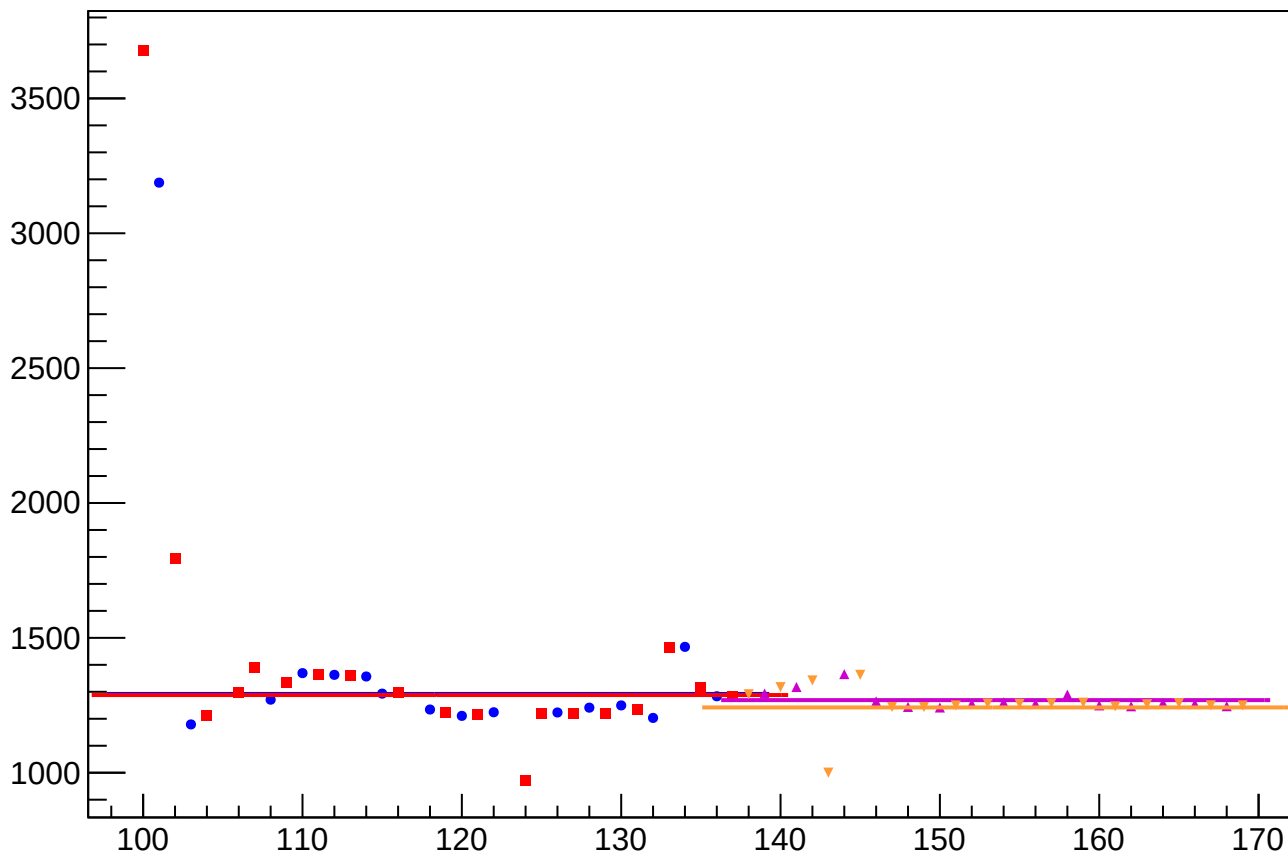
Right: -538.167 $\pm$ 343.714 χ^2 /NDF: 32.0/34

In: -587.910 $\pm$ 290.218 χ^2 /NDF:30.8/30

Out: -226.310 $\pm$ 277.672 χ^2 /NDF:40.7/35

All: -399.126 $\pm$ 200.632 χ^2 /NDF: 72.3/66

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1292.038+/-0.346 χ^2/NDF : 509406.2/15

Left Out: 1242.037+/-0.240 χ^2/NDF : 122290.4/16

Right Out: 1287.988+/-0.341 χ^2/NDF : 209209.1/18

Left In: 1269.145+/-0.255 χ^2/NDF : 16208.2/14

Left: 1254.783+/-0.175 χ^2/NDF : 144494.8/31

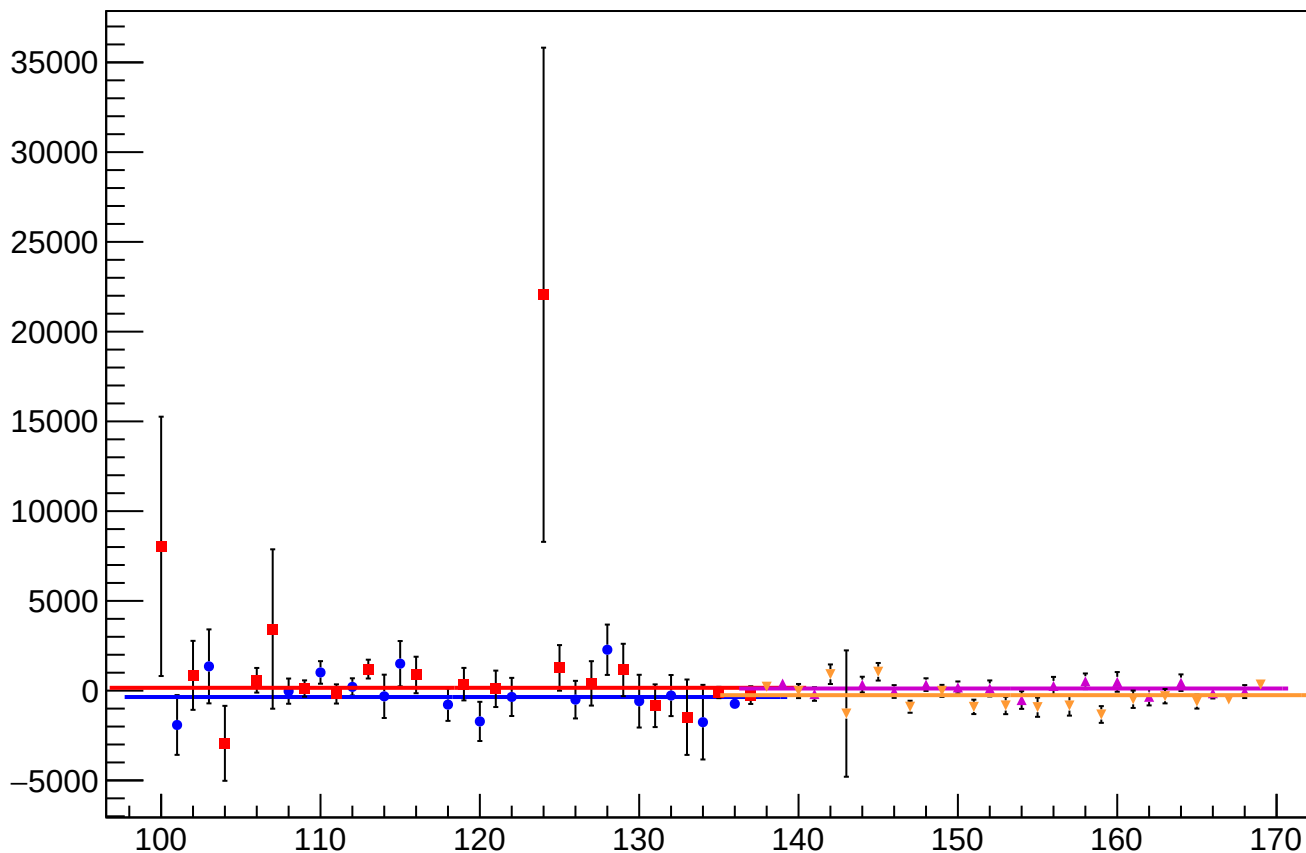
Right: 1289.984+/-0.243 χ^2/NDF : 718684.7/34

In: 1277.189+/-0.205 χ^2/NDF : 528450.7/30

Out: 1257.246+/-0.196 χ^2/NDF : 343628.0/35

All: 1266.777+/-0.142 χ^2/NDF : 877009.0/66

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226 ± 169.973 χ^2/NDF : 18.4/15

Left Out: -252.292 ± 93.161 χ^2/NDF : 38.5/16

Right Out: 157.929 ± 169.667 χ^2/NDF : 15.8/18

Left In: 119.216 ± 99.770 χ^2/NDF : 8.1/14

Left: -79.249 ± 68.091 χ^2/NDF : 54.0/31

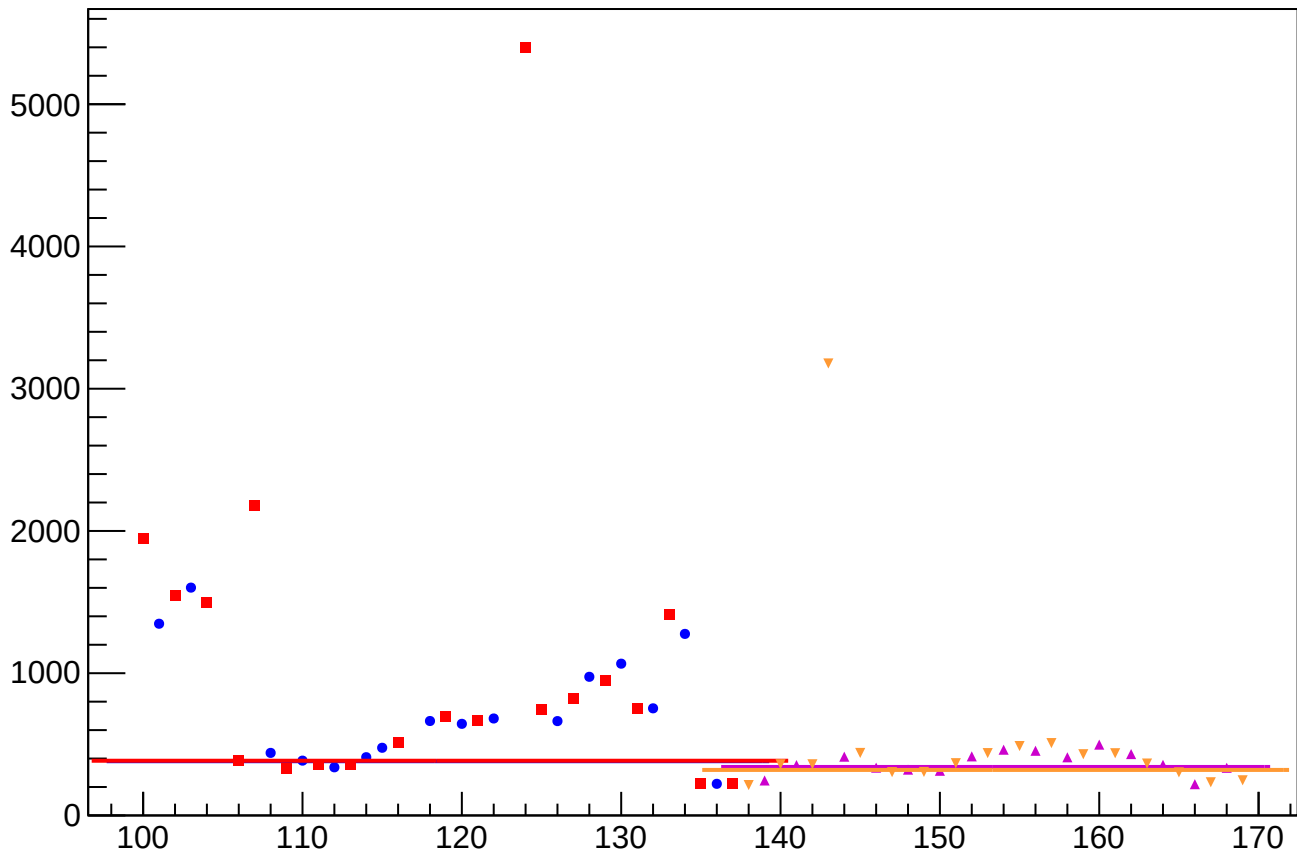
Right: -98.185 ± 120.081 χ^2/NDF : 38.8/34

In: -2.360 ± 86.042 χ^2/NDF : 32.3/30

Out: -157.264 ± 81.661 χ^2/NDF : 58.9/35

All: -83.856 ± 59.231 χ^2/NDF : 92.9/66

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 381.359+/-0.120 χ^2/NDF : 4317737.3/15

Left Out: 320.049+/-0.066 χ^2/NDF :3042948.6/16

Right Out: 384.658+/-0.120 χ^2/NDF : 4560068.3/18

Left In: 340.896+/-0.071 χ^2/NDF :1222165.2/14

Left: 329.759+/-0.048 χ^2/NDF : 4311764.2/31

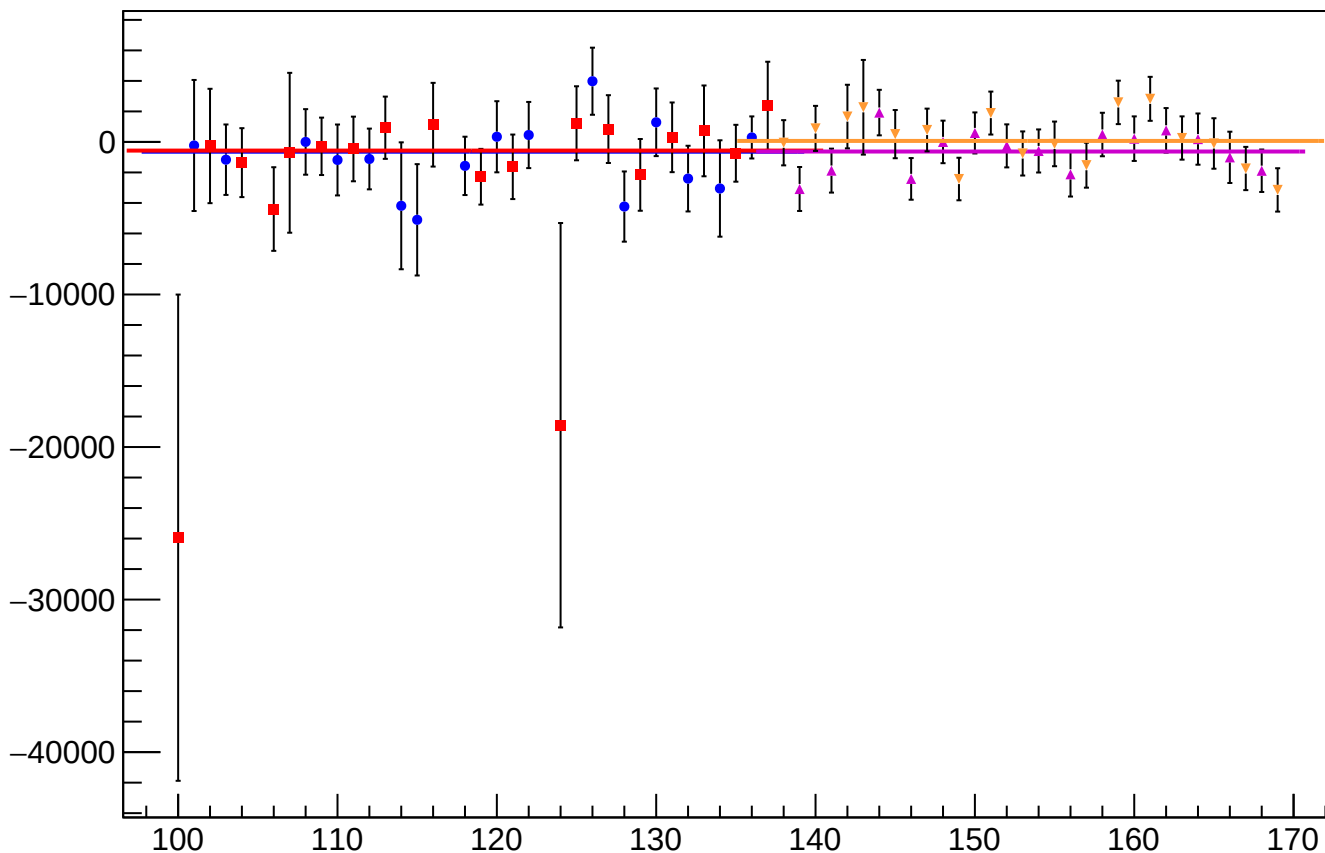
Right: 383.012+/-0.085 χ^2/NDF : 8878183.1/34

In: 351.265+/-0.061 χ^2/NDF :5624199.5/30

Out: 335.015+/-0.058 χ^2/NDF :7825856.9/35

All: 342.716+/-0.042 χ^2/NDF : 13487583.8/66

asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected



Right In: -640.824+/-564.366 χ^2 /NDF: 12.5/15

Left Out: 65.816+/-367.345 χ^2 /NDF:21.7/16

Right Out: -567.254+/-566.774 χ^2 /NDF: 11.3/18

Left In: -628.888+/-374.124 χ^2 /NDF:13.4/14

Left: -275.185+/-262.116 χ^2 /NDF: 36.9/31

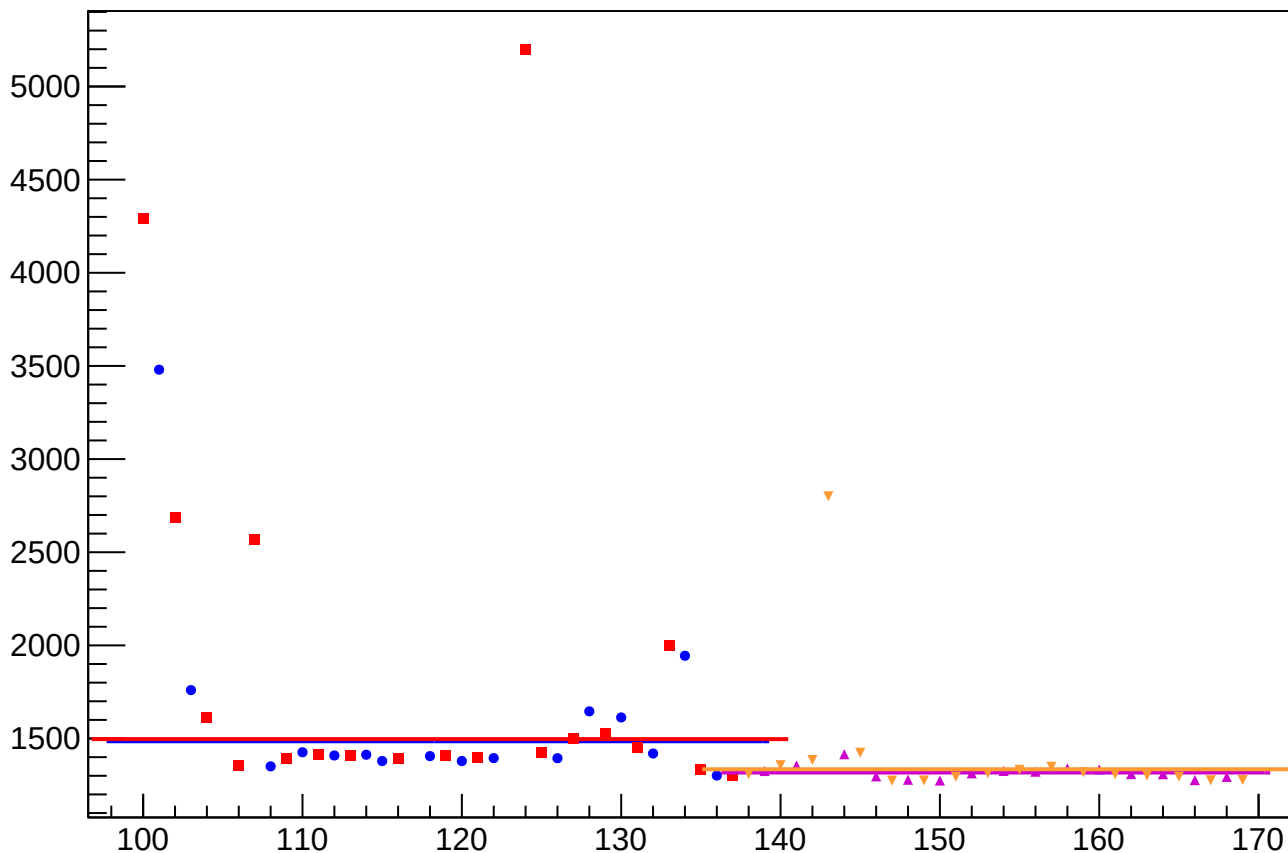
Right: -604.196+/-399.916 χ^2 /NDF: 23.8/34

In: -632.532+/-311.830 χ^2 /NDF:25.9/30

Out: -121.454+/-308.261 χ^2 /NDF:33.9/35

All: -374.051+/-219.224 χ^2 /NDF: 61.2/66

asym_atl_avg_atr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1485.370+/-0.399 χ^2 /NDF: 584470.1/15

Left Out: 1335.043+/-0.260 χ^2 /NDF: 473907.4/16

Right Out: 1496.865+/-0.401 χ^2 /NDF: 623292.7/18

Left In: 1317.605+/-0.265 χ^2 /NDF: 16823.5/14

Left: 1326.483+/-0.185 χ^2 /NDF: 492943.0/31

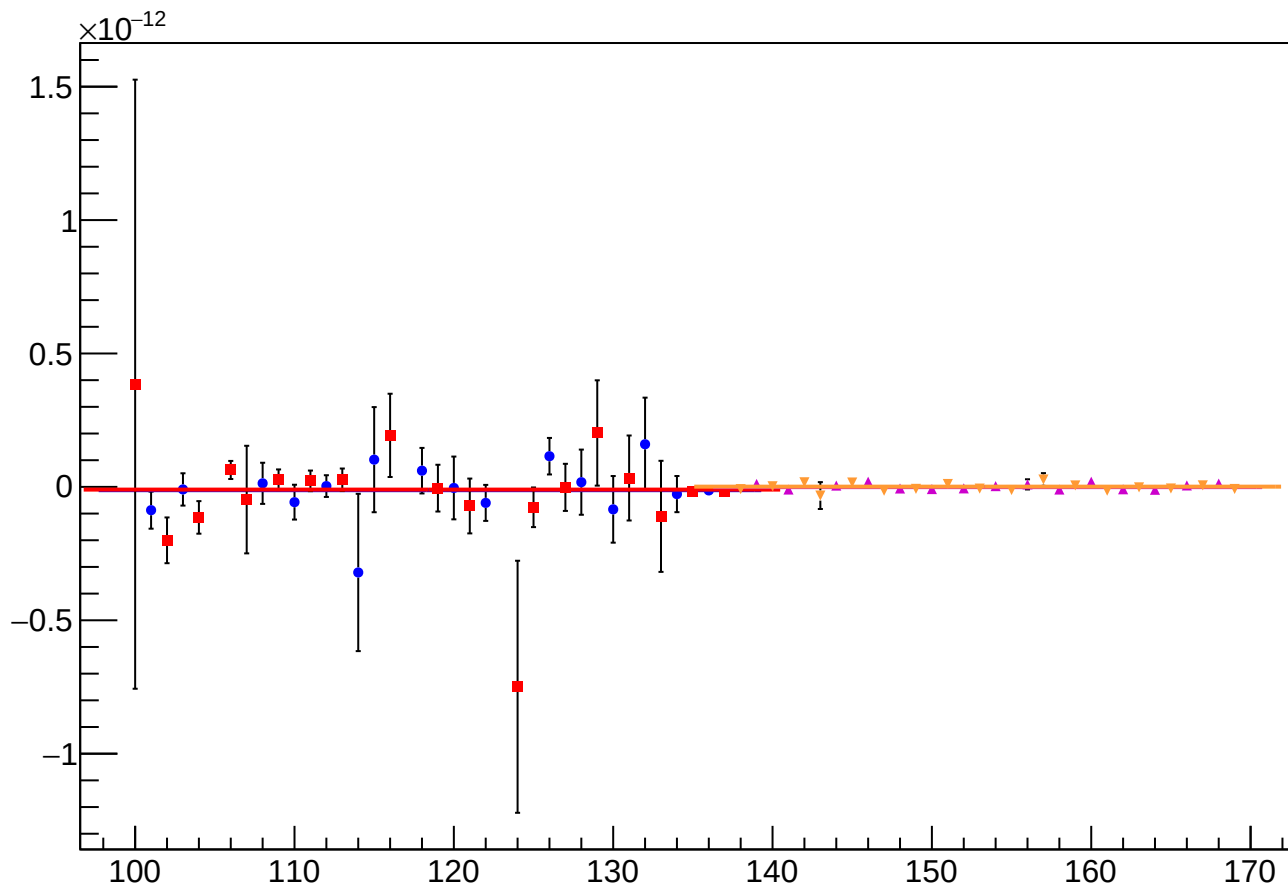
Right: 1491.093+/-0.283 χ^2 /NDF: 1208175.9/34

In: 1368.822+/-0.220 χ^2 /NDF: 724070.5/30

Out: 1382.912+/-0.218 χ^2 /NDF: 1212010.2/35

All: 1375.948+/-0.155 χ^2 /NDF: 1938145.8/66

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 9.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :15.5/16

Right Out: -0.000+/-0.000 χ^2/NDF : 22.3/18

Left In: -0.000+/-0.000 χ^2/NDF :15.5/14

Left: 0.000+/-0.000 χ^2/NDF : 31.3/31

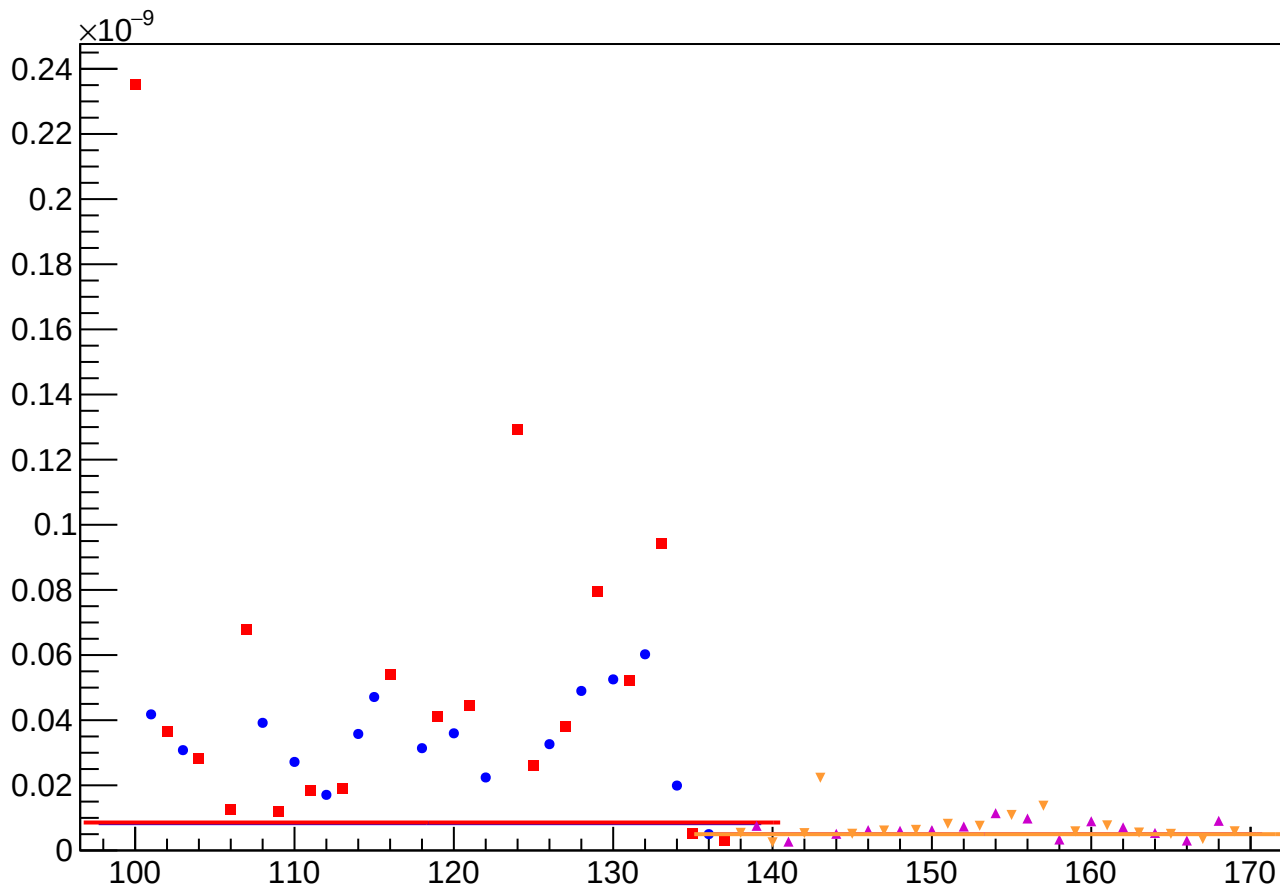
Right: -0.000+/-0.000 χ^2/NDF : 31.8/34

In: -0.000+/-0.000 χ^2/NDF :27.1/30

Out: 0.000+/-0.000 χ^2/NDF :39.6/35

All: -0.000+/-0.000 χ^2/NDF : 67.1/66

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3059657.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1774661.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3348571.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 1575056.4/14

Left: 0.000+/-0.000 χ^2/NDF : 3350234.8/31

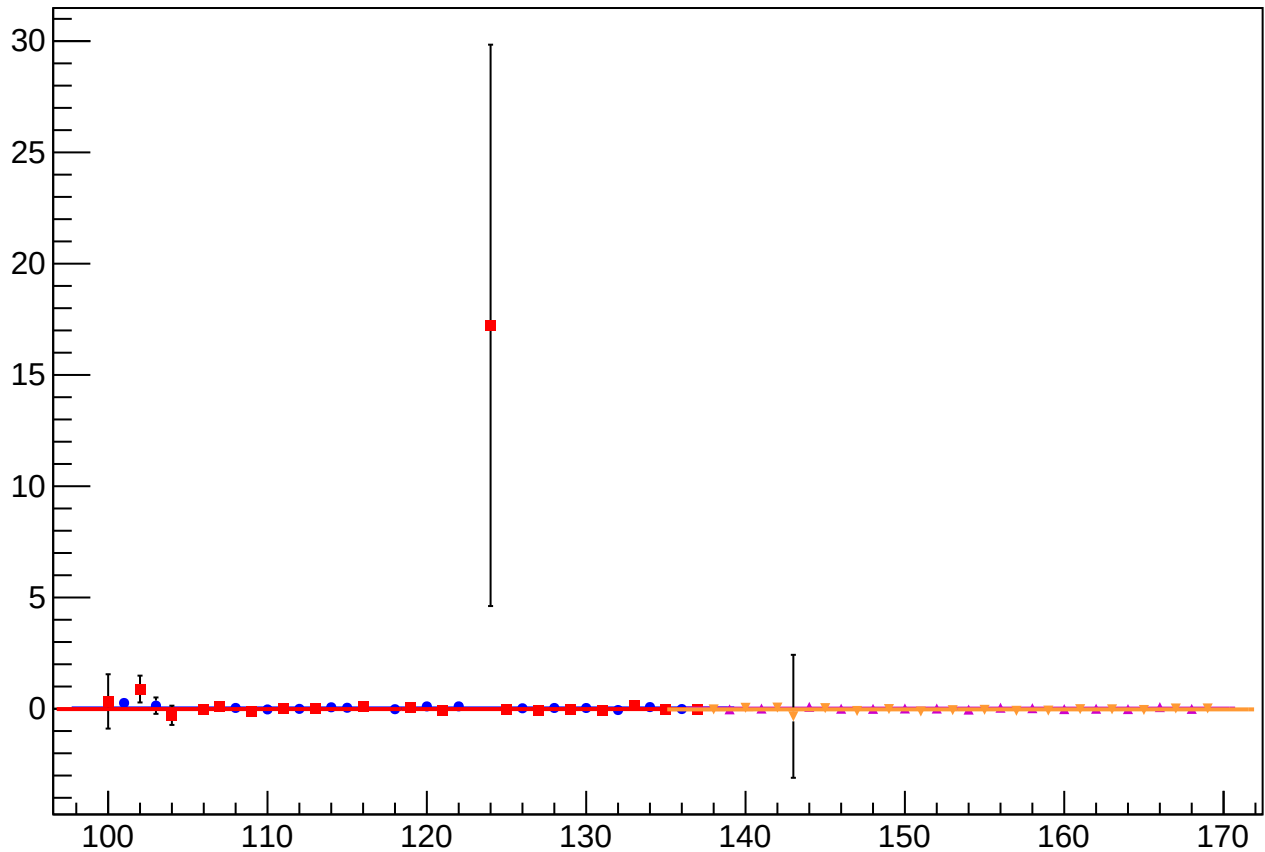
Right: 0.000+/-0.000 χ^2/NDF : 6408892.5/34

In: 0.000+/-0.000 χ^2/NDF : 4994521.1/30

Out: 0.000+/-0.000 χ^2/NDF : 5490776.8/35

All: 0.000+/-0.000 χ^2/NDF : 10487781.2/66

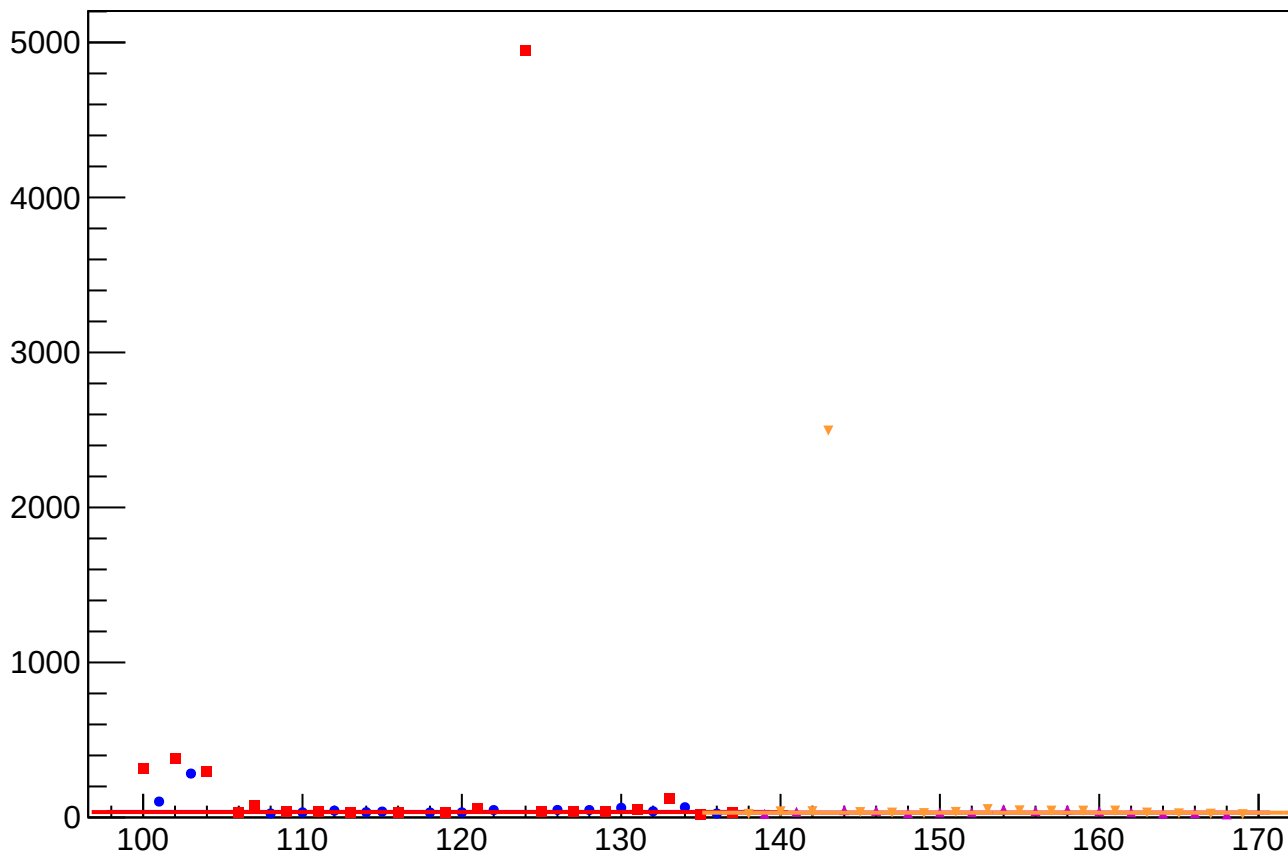
asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 ± 0.015 $\chi^2/\text{NDF}: 11.5/15$
 Left Out: -0.027 ± 0.010 $\chi^2/\text{NDF}: 23.4/16$
 Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$
 Left In: 0.008 ± 0.010 $\chi^2/\text{NDF}: 8.8/14$

Left: -0.011 ± 0.007 $\chi^2/\text{NDF}: 38.6/31$
 Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$
 In: 0.010 ± 0.008 $\chi^2/\text{NDF}: 20.5/30$
 Out: -0.024 ± 0.008 $\chi^2/\text{NDF}: 40.0/35$
 All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 68.9/66$

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.742 $\pm$ 0.011 χ^2 /NDF: 2264790.8/15

Left Out: 30.761 $\pm$ 0.007 χ^2 /NDF:3203512.0/16

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 31.641 $\pm$ 0.007 χ^2 /NDF:1614263.4/14

Left: 31.182 $\pm$ 0.005 χ^2 /NDF: 4825815.3/31

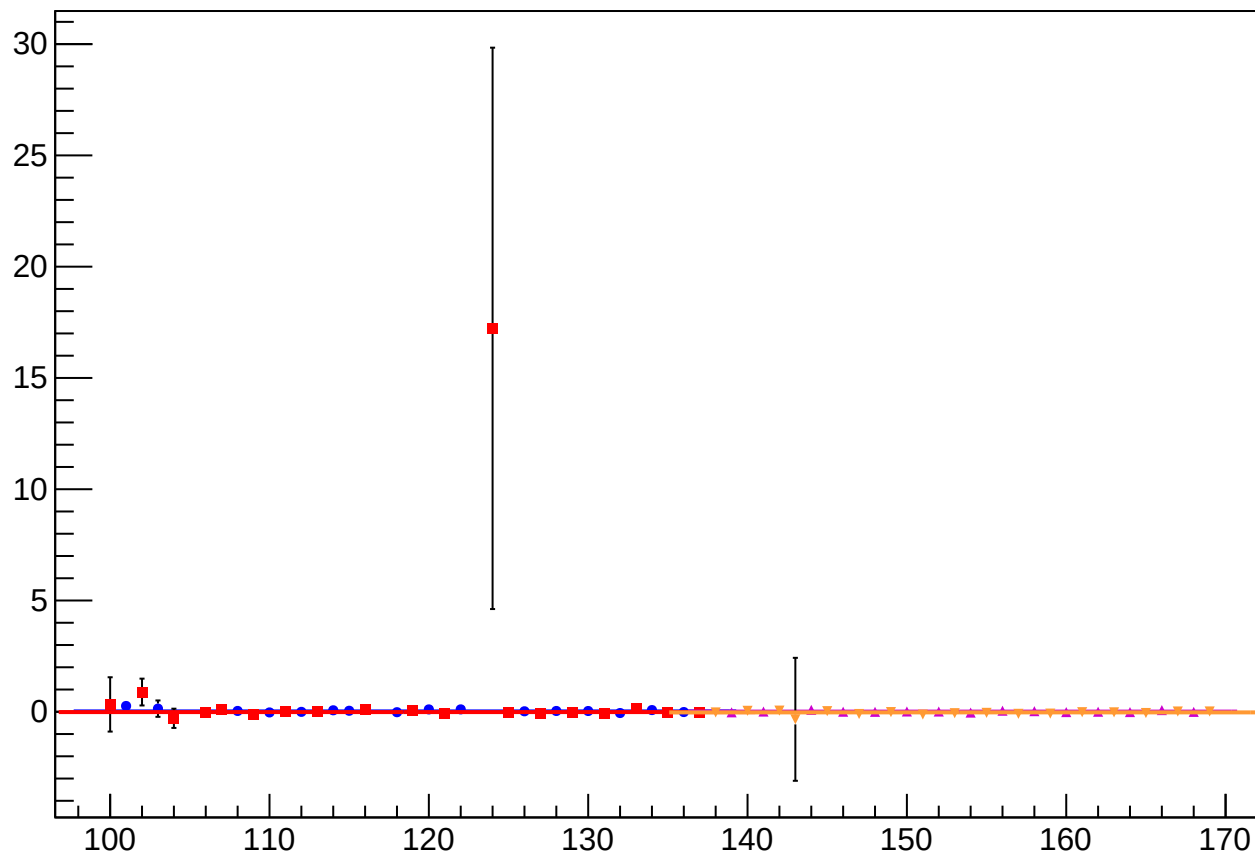
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 32.858 $\pm$ 0.006 χ^2 /NDF:3978191.3/30

Out: 31.867 $\pm$ 0.006 χ^2 /NDF:6214561.7/35

All: 32.349 $\pm$ 0.004 χ^2 /NDF: 10206999.9/66

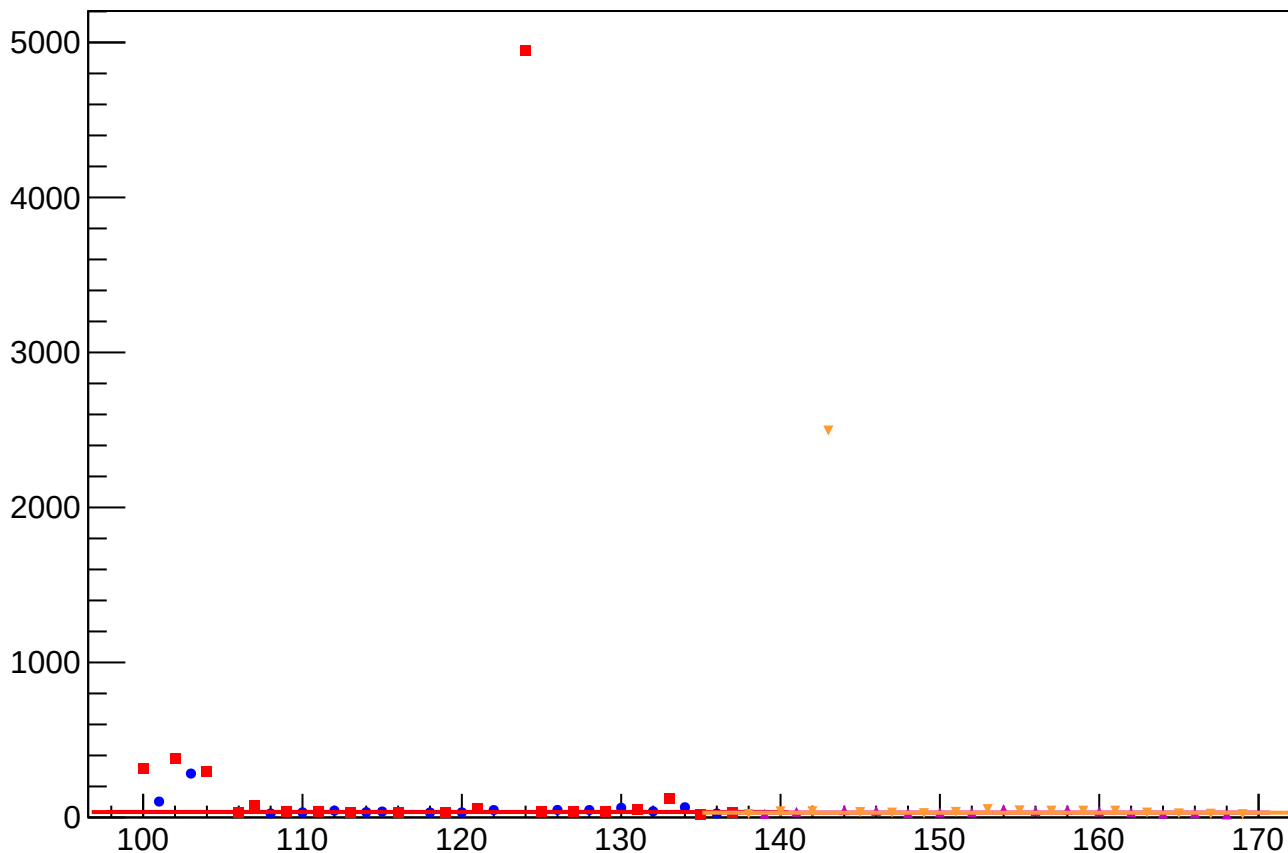
asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.015 χ^2/NDF : 11.5/15
 Left Out: -0.027+/-0.010 χ^2/NDF : 23.4/16
 Right Out: -0.014+/-0.016 χ^2/NDF : 16.0/18
 Left In: 0.008+/-0.010 χ^2/NDF : 8.8/14

Left: -0.011+/-0.007 χ^2/NDF : 38.6/31
 Right: 0.002+/-0.011 χ^2/NDF : 29.4/34
 In: 0.010+/-0.008 χ^2/NDF : 20.5/30
 Out: -0.024+/-0.008 χ^2/NDF : 40.0/35
 All: -0.007+/-0.006 χ^2/NDF : 68.9/66

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.742 $\pm$ 0.011 χ^2 /NDF: 2264790.8/15

Left Out: 30.761 $\pm$ 0.007 χ^2 /NDF:3203512.0/16

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 31.641 $\pm$ 0.007 χ^2 /NDF:1614263.4/14

Left: 31.182 $\pm$ 0.005 χ^2 /NDF: 4825815.3/31

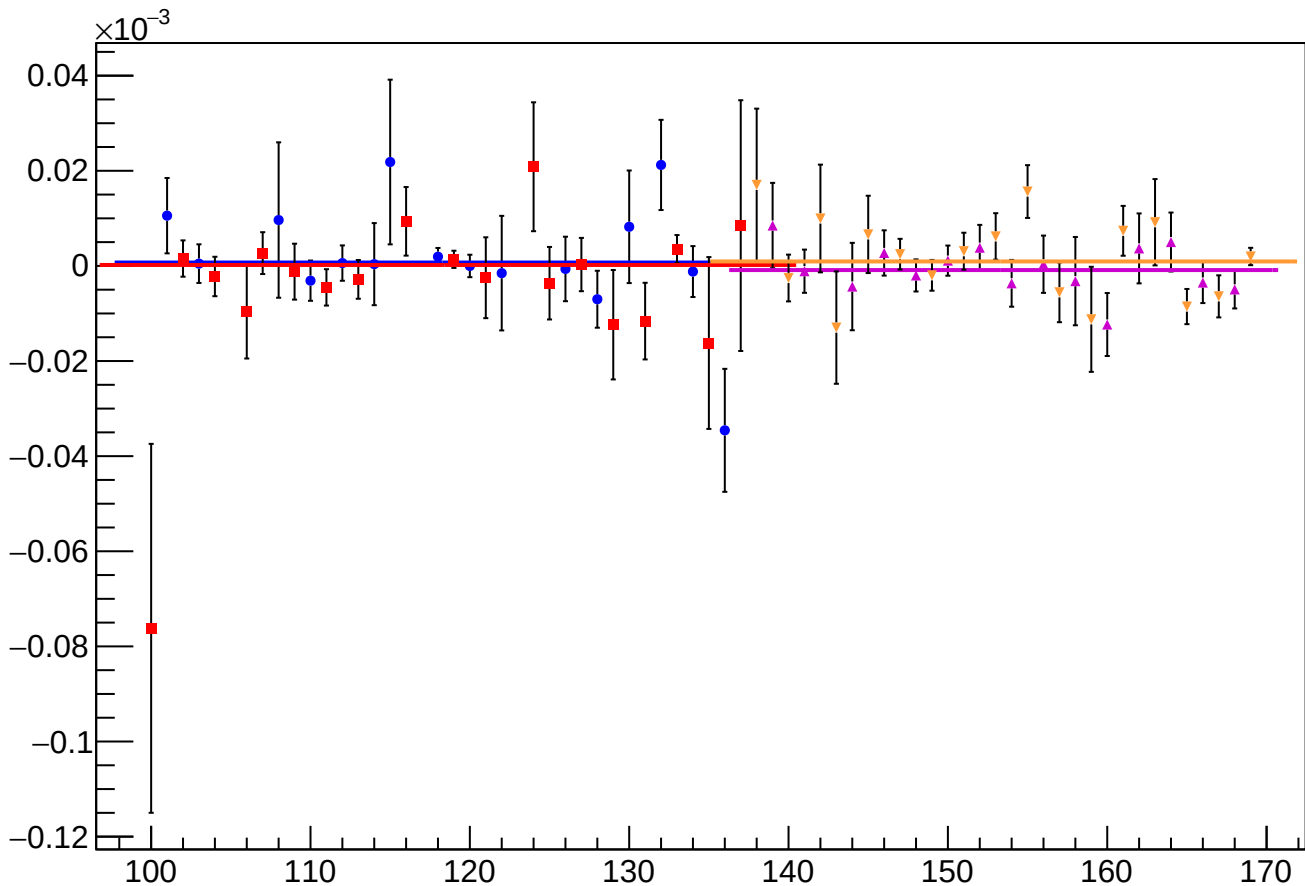
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 32.858 $\pm$ 0.006 χ^2 /NDF:3978191.3/30

Out: 31.867 $\pm$ 0.006 χ^2 /NDF:6214561.7/35

All: 32.349 $\pm$ 0.004 χ^2 /NDF: 10206999.9/66

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 27.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 18.1/18

Left In: -0.000+/-0.000 χ^2/NDF : 9.4/14

Left: 0.000+/-0.000 χ^2/NDF : 38.4/31

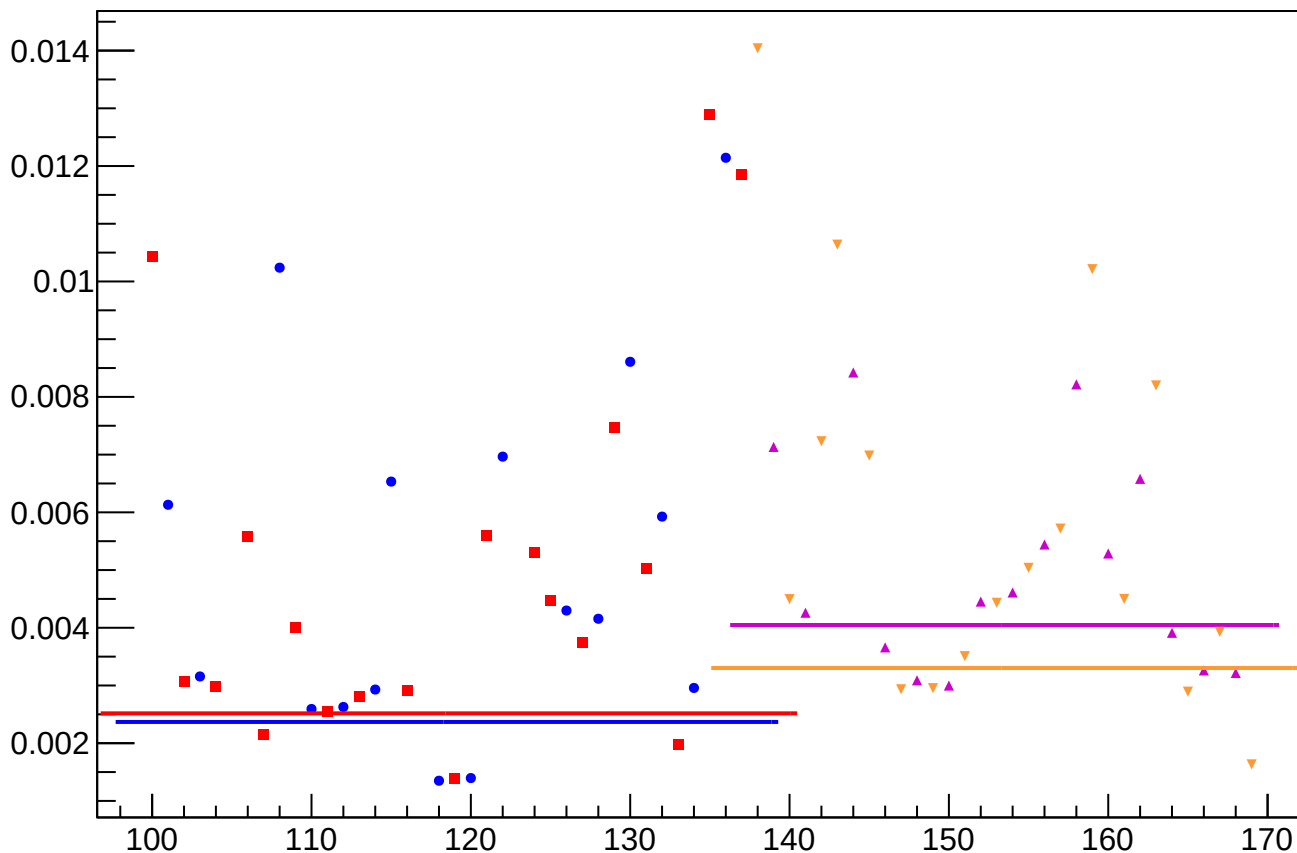
Right: 0.000+/-0.000 χ^2/NDF : 37.3/34

In: 0.000+/-0.000 χ^2/NDF : 29.3/30

Out: 0.000+/-0.000 χ^2/NDF : 46.1/35

All: 0.000+/-0.000 χ^2/NDF : 75.7/66

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4721602.1/15

Left Out: 0.003+/-0.000 χ^2/NDF : 6298023.5/16

Right Out: 0.003+/-0.000 χ^2/NDF : 3397462.9/18

Left In: 0.004+/-0.000 χ^2/NDF : 2099825.3/14

Left: 0.004+/-0.000 χ^2/NDF : 8804294.2/31

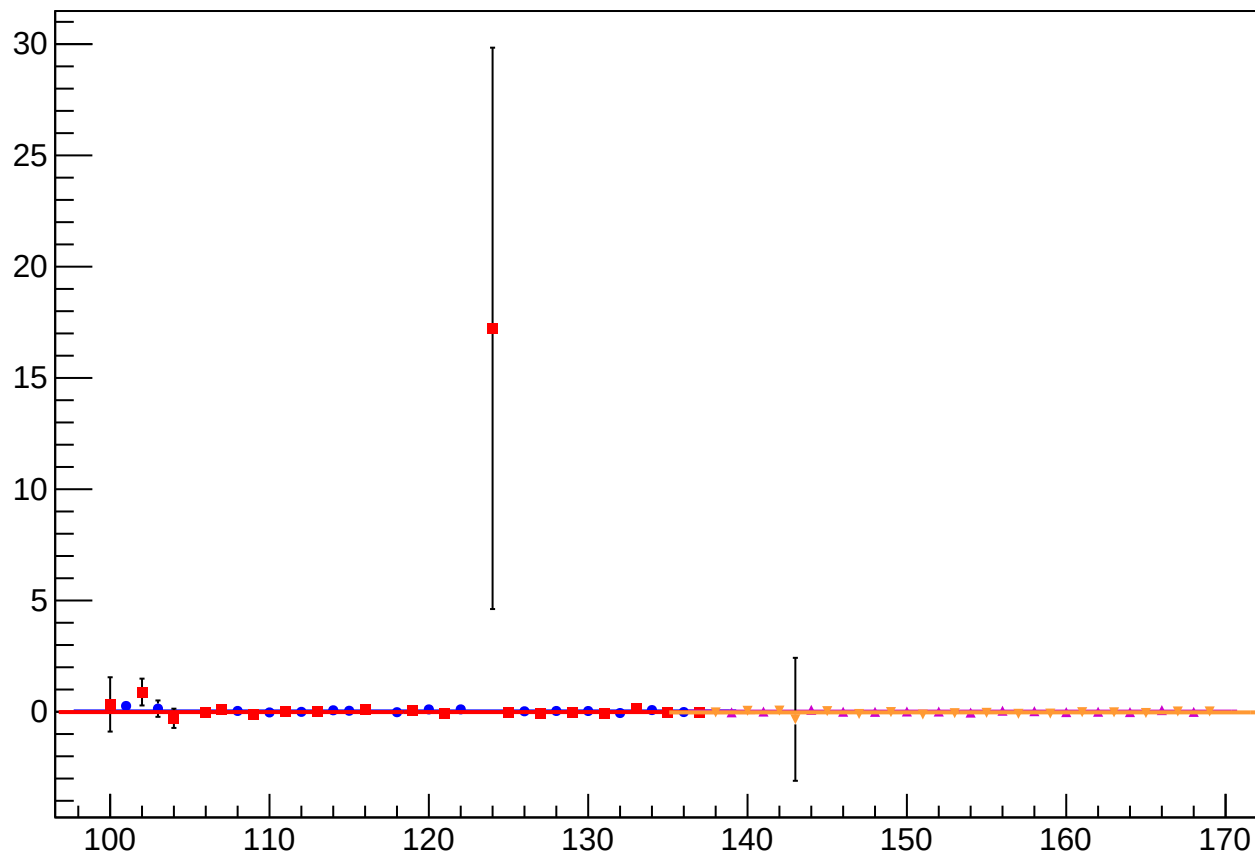
Right: 0.002+/-0.000 χ^2/NDF : 8137943.7/34

In: 0.003+/-0.000 χ^2/NDF : 8795440.1/30

Out: 0.003+/-0.000 χ^2/NDF : 10250252.7/35

All: 0.003+/-0.000 χ^2/NDF : 19091810.5/66

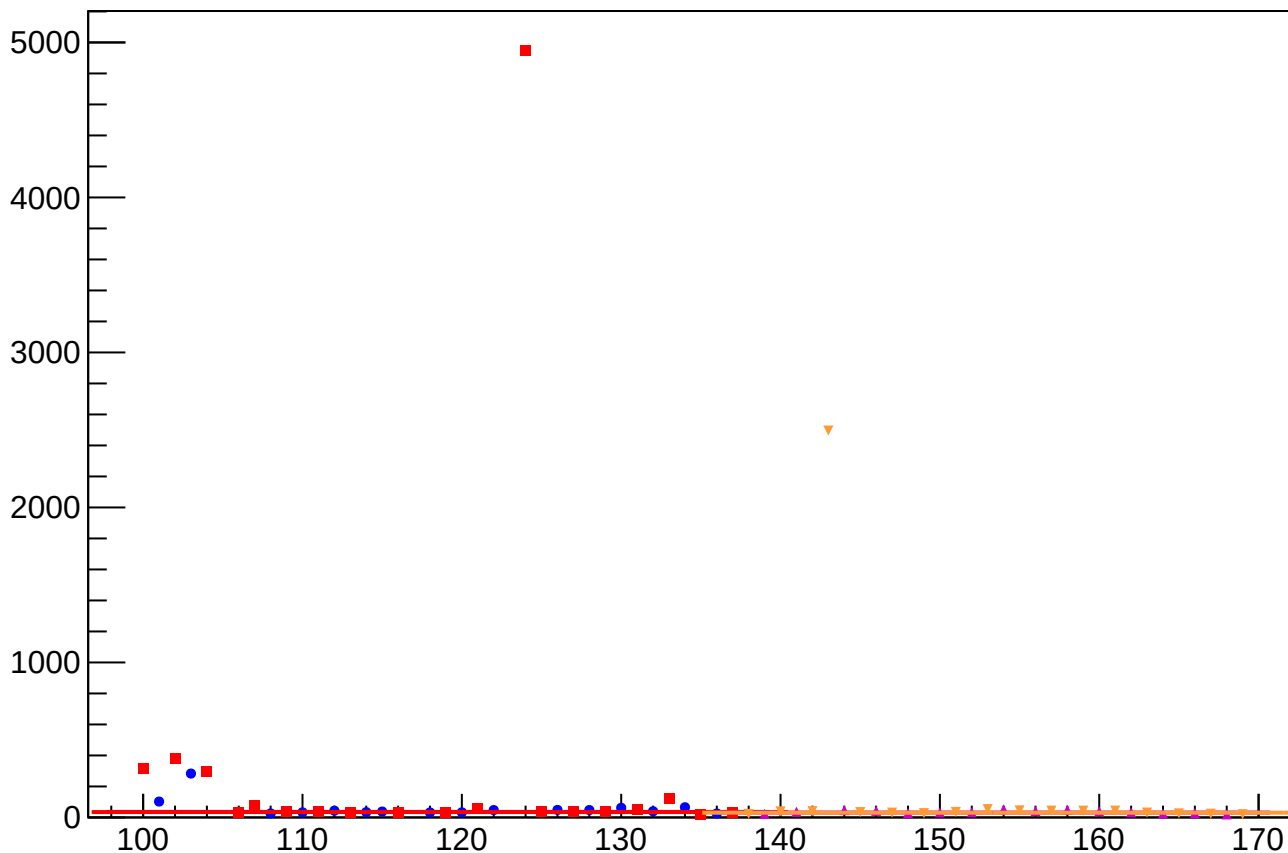
asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 ± 0.015 $\chi^2/\text{NDF}: 11.5/15$
 Left Out: -0.027 ± 0.010 $\chi^2/\text{NDF}: 23.4/16$
 Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$
 Left In: 0.008 ± 0.010 $\chi^2/\text{NDF}: 8.8/14$

Left: -0.011 ± 0.007 $\chi^2/\text{NDF}: 38.6/31$
 Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$
 In: 0.010 ± 0.008 $\chi^2/\text{NDF}: 20.5/30$
 Out: -0.024 ± 0.008 $\chi^2/\text{NDF}: 40.0/35$
 All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 68.9/66$

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.743+/-0.011 χ^2/NDF : 2264513.9/15

Left Out: 30.761+/-0.007 χ^2/NDF : 3203776.3/16

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 31.640+/-0.007 χ^2/NDF : 1614844.4/14

Left: 31.181+/-0.005 χ^2/NDF : 4826639.6/31

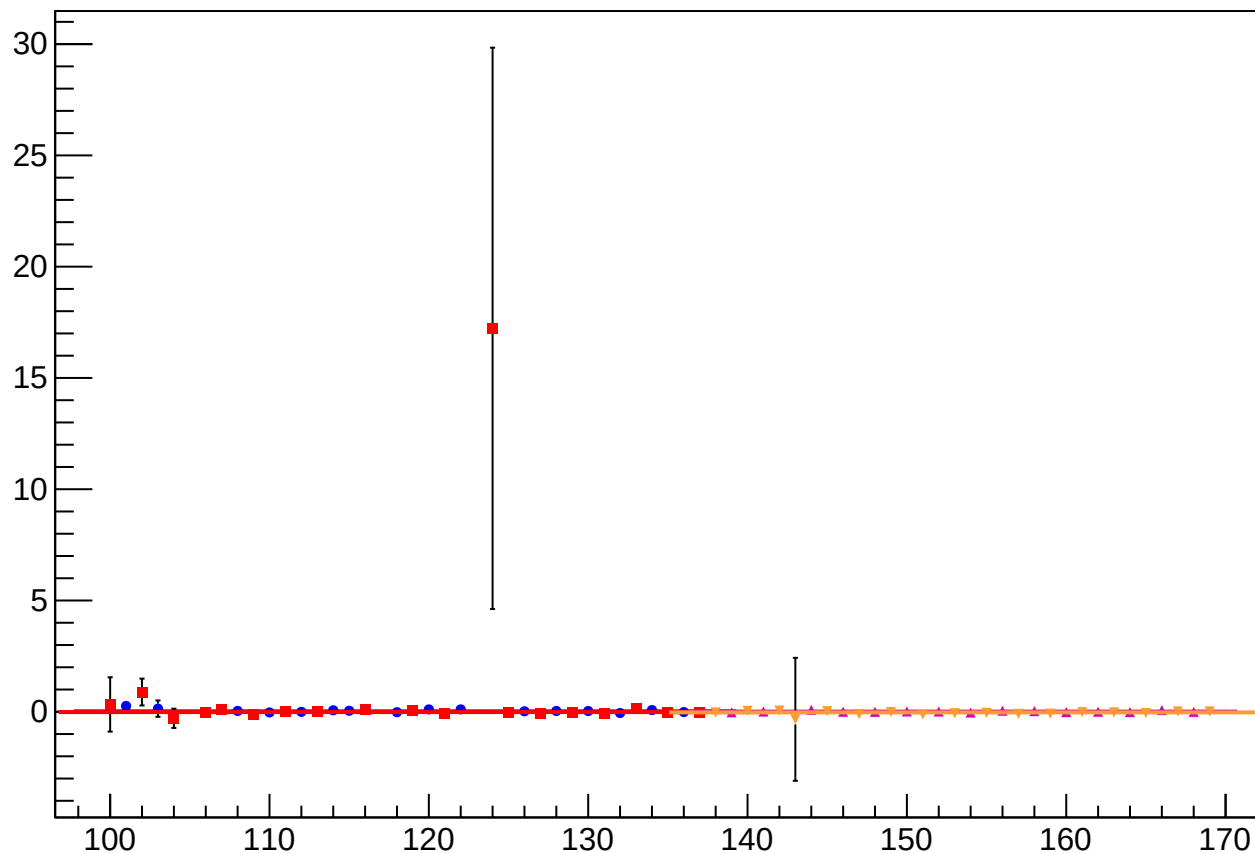
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 32.857+/-0.006 χ^2/NDF : 3978633.2/30

Out: 31.867+/-0.006 χ^2/NDF : 6214704.1/35

All: 32.348+/-0.004 χ^2/NDF : 10207564.8/66

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 ± 0.015 $\chi^2/\text{NDF}: 11.5/15$

Left Out: -0.027 ± 0.010 $\chi^2/\text{NDF}: 23.4/16$

Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$

Left In: 0.008 ± 0.010 $\chi^2/\text{NDF}: 8.8/14$

Left: -0.011 ± 0.007 $\chi^2/\text{NDF}: 38.6/31$

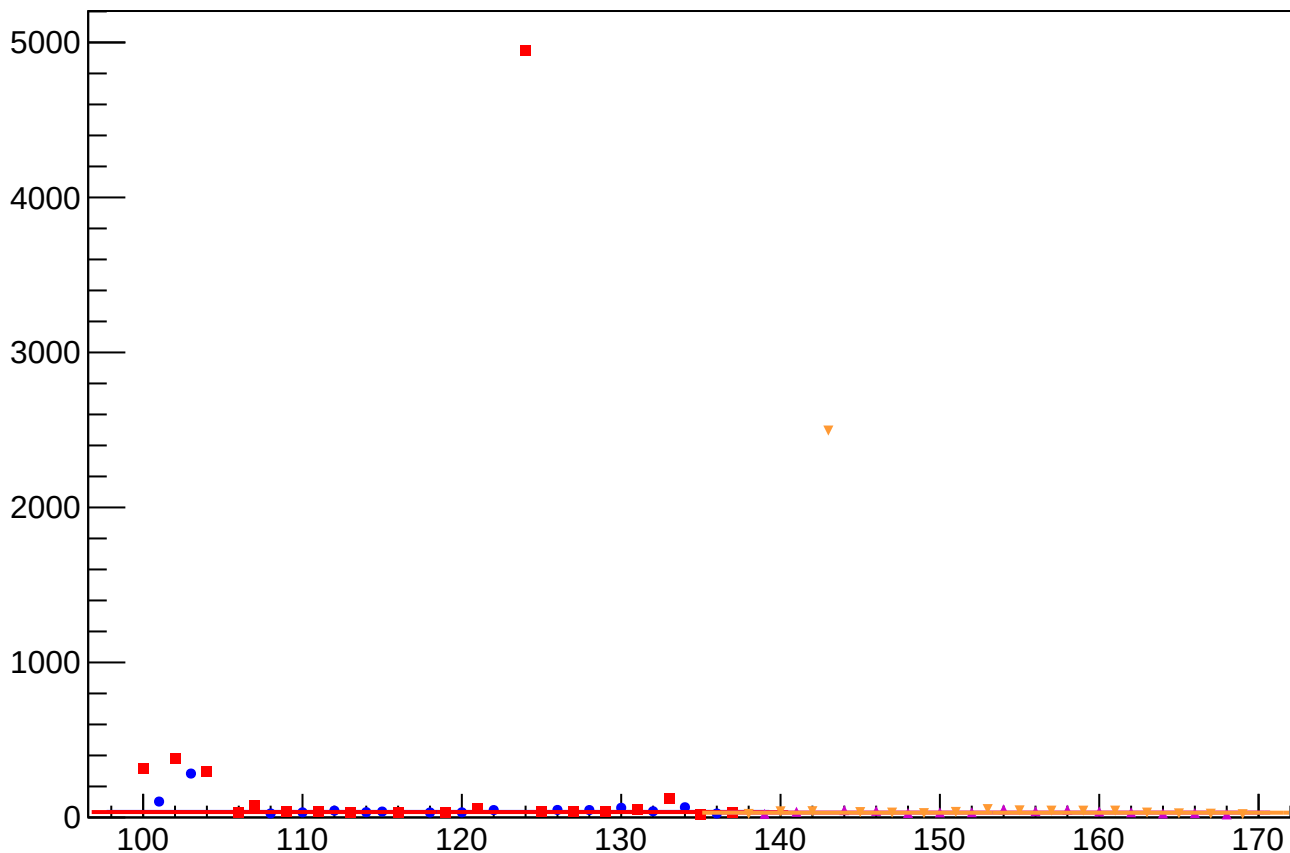
Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$

In: 0.010 ± 0.008 $\chi^2/\text{NDF}: 20.5/30$

Out: -0.024 ± 0.008 $\chi^2/\text{NDF}: 40.0/35$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 68.9/66$

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.743+/-0.011 χ^2/NDF : 2264513.9/15

Left Out: 30.761+/-0.007 χ^2/NDF : 3203776.3/16

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 31.640+/-0.007 χ^2/NDF : 1614844.4/14

Left: 31.181+/-0.005 χ^2/NDF : 4826639.6/31

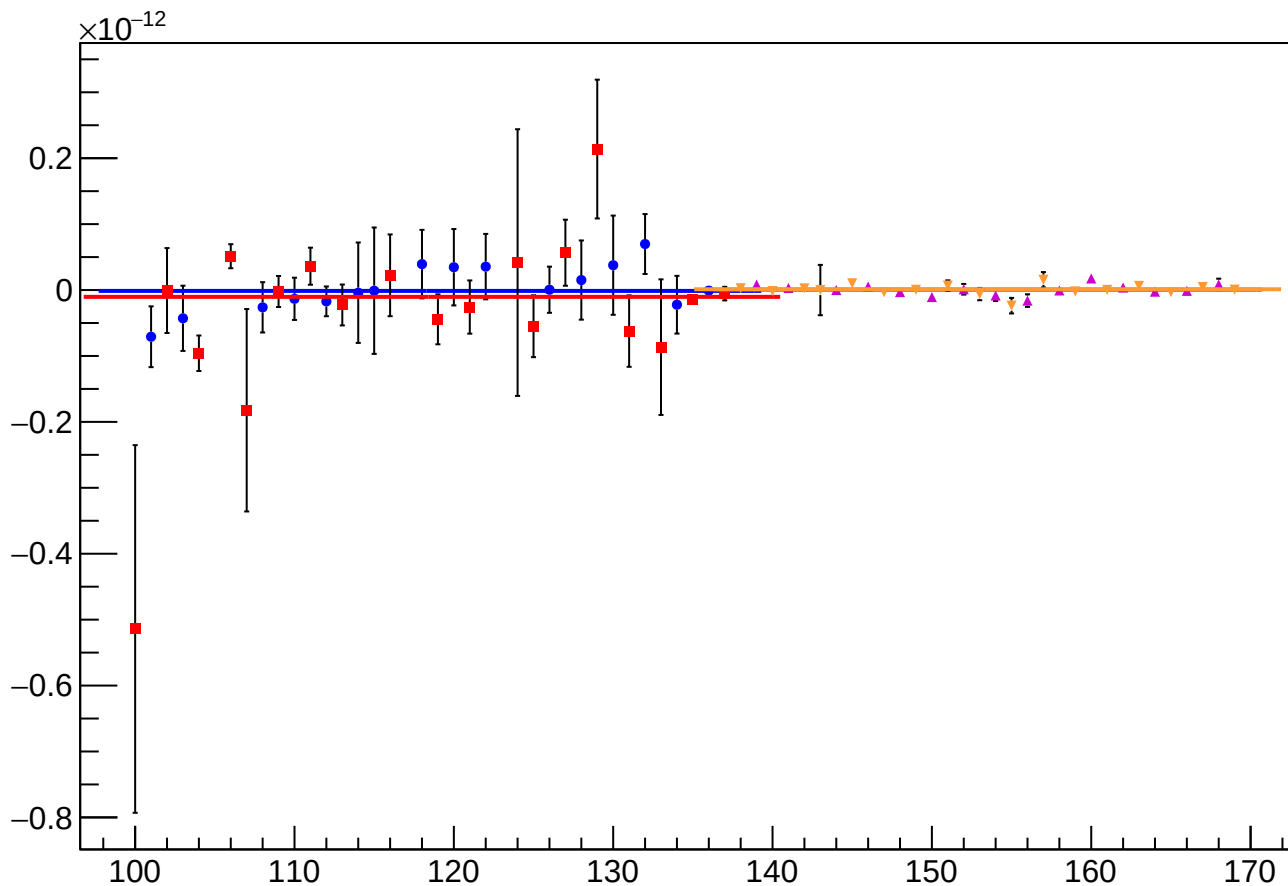
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 32.857+/-0.006 χ^2/NDF : 3978633.2/30

Out: 31.867+/-0.006 χ^2/NDF : 6214704.1/35

All: 32.348+/-0.004 χ^2/NDF : 10207564.8/66

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 8.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :12.7/16

Right Out: -0.000+/-0.000 χ^2/NDF : 39.9/18

Left In: 0.000+/-0.000 χ^2/NDF :18.3/14

Left: 0.000+/-0.000 χ^2/NDF : 31.1/31

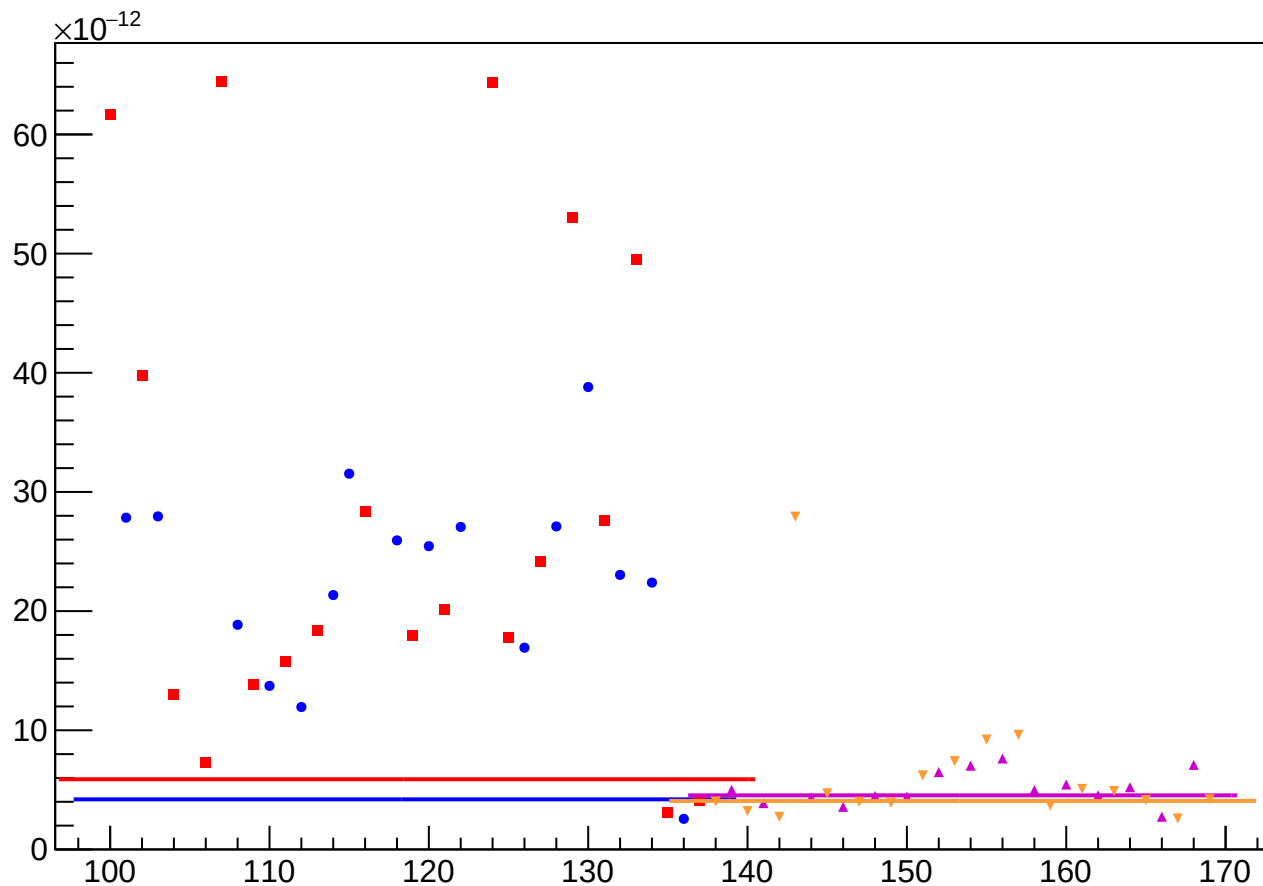
Right: -0.000+/-0.000 χ^2/NDF : 51.3/34

In: 0.000+/-0.000 χ^2/NDF :27.2/30

Out: -0.000+/-0.000 χ^2/NDF :59.3/35

All: 0.000+/-0.000 χ^2/NDF : 86.5/66

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5080225.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2658879.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4860861.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 1235675.0/14

Left: 0.000+/-0.000 χ^2/NDF : 3990132.2/31

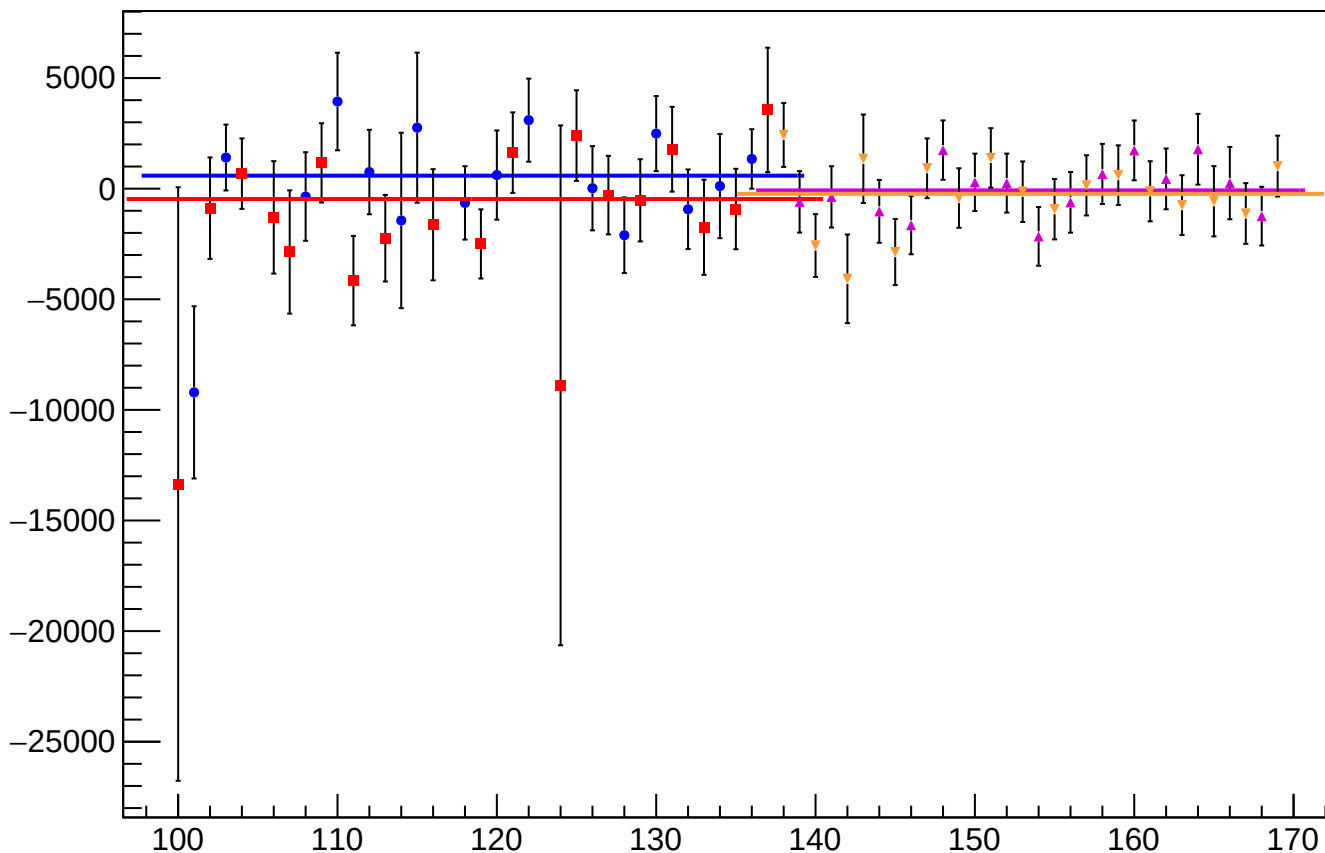
Right: 0.000+/-0.000 χ^2/NDF : 10135954.8/34

In: 0.000+/-0.000 χ^2/NDF : 6331816.4/30

Out: 0.000+/-0.000 χ^2/NDF : 7857474.8/35

All: 0.000+/-0.000 χ^2/NDF : 14213013.5/66

reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 586.935 $\pm$ 482.434 χ^2 /NDF: 17.1/15

Left Out: -234.092 $\pm$ 347.367 χ^2 /NDF:17.9/16

Right Out: -469.012 $\pm$ 480.516 χ^2 /NDF: 16.9/18

Left In: -78.029 $\pm$ 356.346 χ^2 /NDF:11.0/14

Left: -158.052 $\pm$ 248.739 χ^2 /NDF: 29.0/31

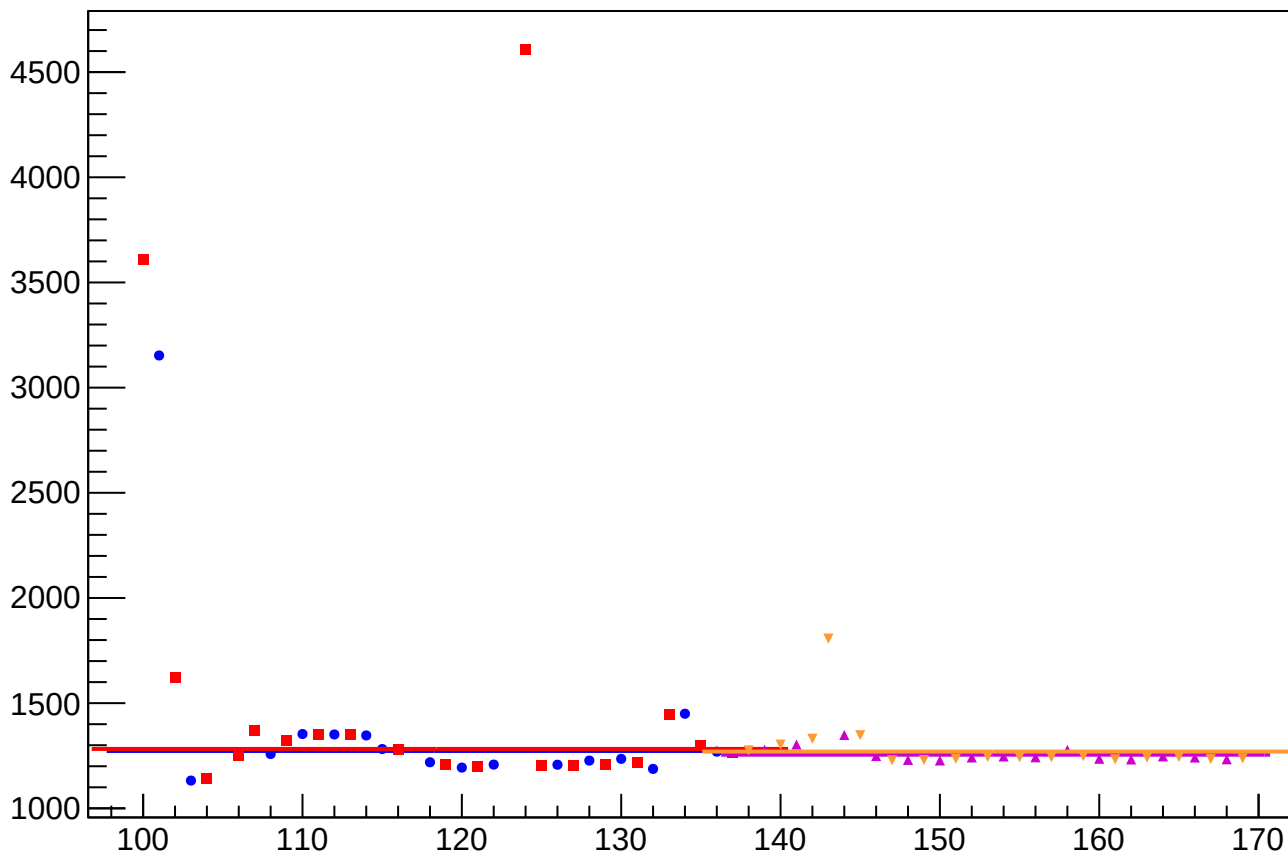
Right: 56.858 $\pm$ 340.452 χ^2 /NDF: 36.3/34

In: 156.703 $\pm$ 286.632 χ^2 /NDF:29.3/30

Out: -314.723 $\pm$ 281.512 χ^2 /NDF:34.9/35

All: -83.258 $\pm$ 200.845 χ^2 /NDF: 65.6/66

reg_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1272.804+/-0.341 χ^2 /NDF: 519298.2/15

Left Out: 1269.880+/-0.246 χ^2 /NDF:165900.6/16

Right Out: 1282.365+/-0.340 χ^2 /NDF: 322078.6/18

Left In: 1255.069+/-0.252 χ^2 /NDF:15976.9/14

Left: 1262.664+/-0.176 χ^2 /NDF: 183648.9/31

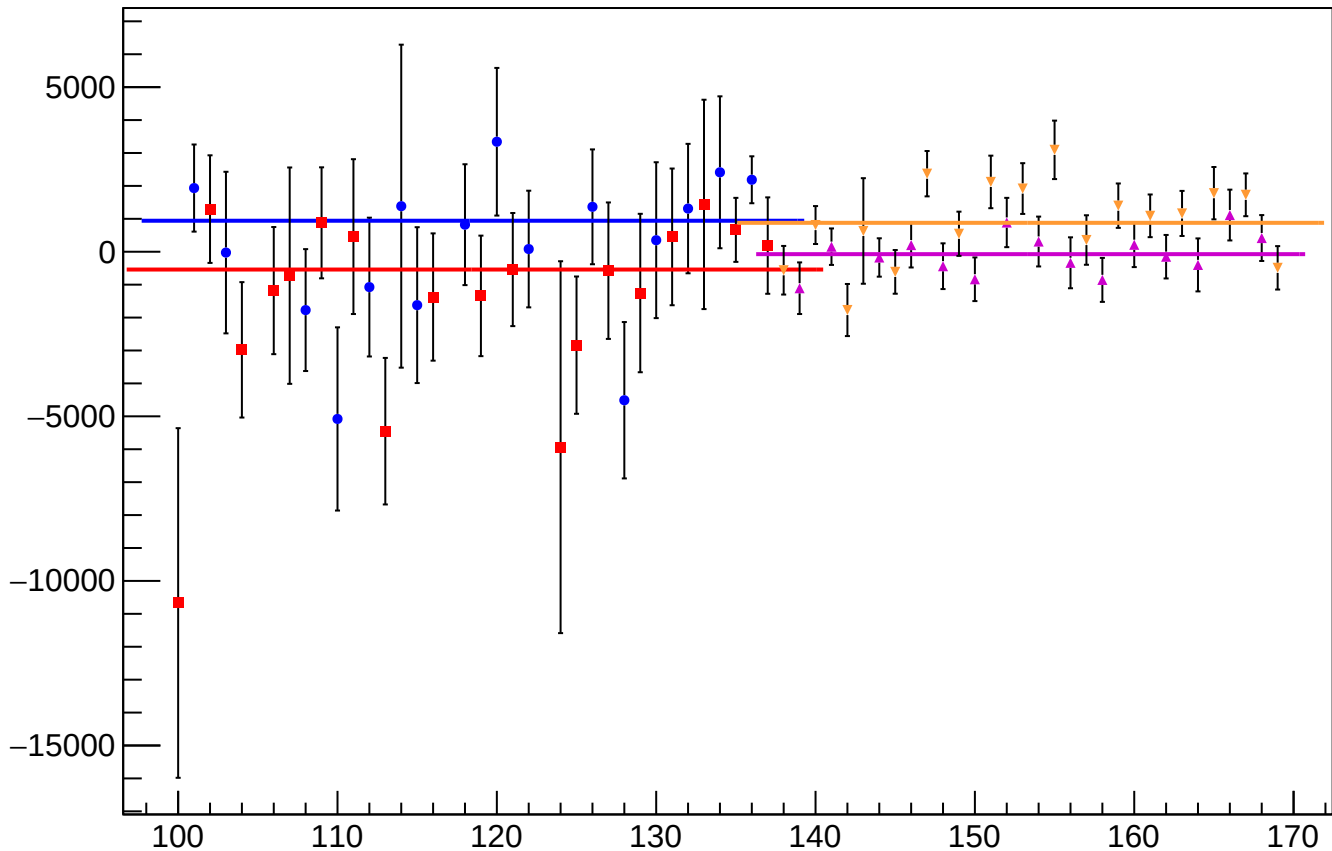
Right: 1277.604+/-0.241 χ^2 /NDF: 841771.1/34

In: 1261.330+/-0.203 χ^2 /NDF:537023.7/30

Out: 1274.165+/-0.199 χ^2 /NDF:488866.0/35

All: 1267.863+/-0.142 χ^2 /NDF: 1027931.1/60

asym_atl_dd_atr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 941.759 ± 425.837 $\chi^2/\text{NDF}: 19.9/15$

Left Out: 878.484 ± 174.941 $\chi^2/\text{NDF}: 44.2/16$

Right Out: -540.622 ± 439.905 $\chi^2/\text{NDF}: 17.2/18$

Left In: -73.375 ± 178.152 $\chi^2/\text{NDF}: 10.3/14$

Left: 411.208 ± 124.822 $\chi^2/\text{NDF}: 69.0/31$

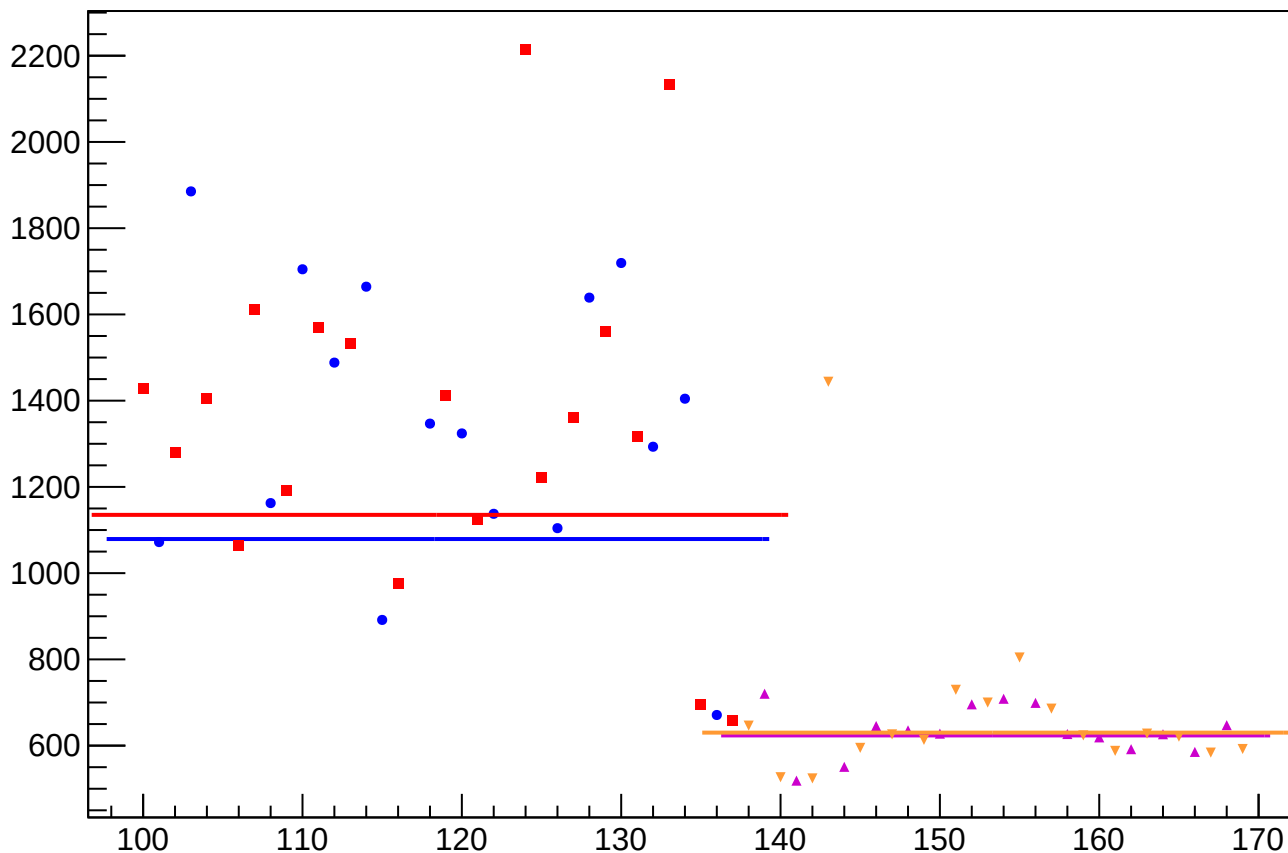
Right: 224.651 ± 305.965 $\chi^2/\text{NDF}: 42.9/34$

In: 77.832 ± 164.349 $\chi^2/\text{NDF}: 35.1/30$

Out: 684.700 ± 162.559 $\chi^2/\text{NDF}: 70.3/35$

All: 384.589 ± 115.574 $\chi^2/\text{NDF}: 112.3/66$

asym_atl_dd_atr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1079.120+/-0.301 χ^2/NDF : 1482232.0/15

Left Out: 630.159+/-0.124 χ^2/NDF : 784478.4/16

Right Out: 1135.161+/-0.311 χ^2/NDF : 1293082.2/18

Left In: 623.649+/-0.126 χ^2/NDF : 210798.9/14

Left: 626.963+/-0.088 χ^2/NDF : 996637.2/31

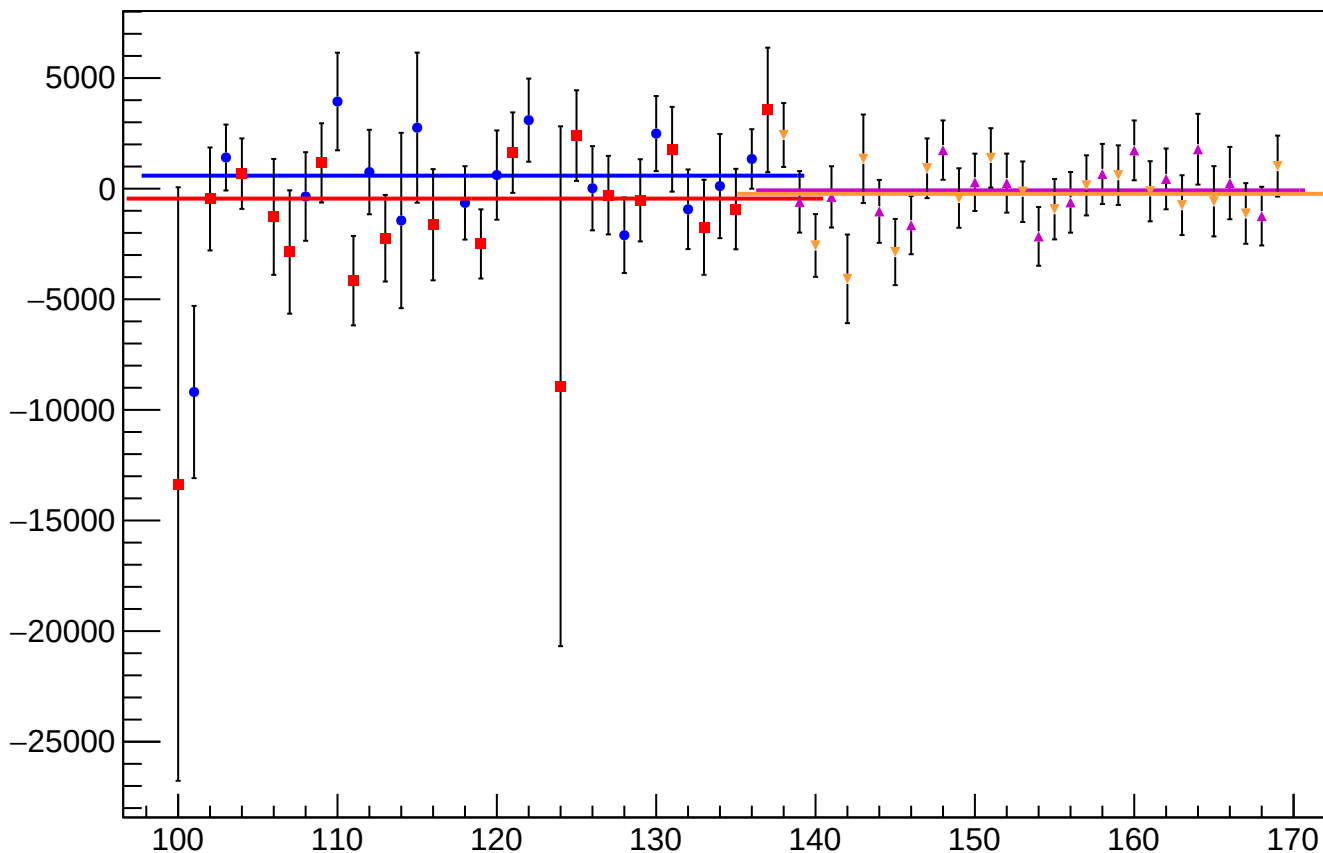
Right: 1106.230+/-0.216 χ^2/NDF : 2792070.7/34

In: 691.492+/-0.116 χ^2/NDF : 3640268.4/30

Out: 699.119+/-0.115 χ^2/NDF : 4353355.9/35

All: 695.347+/-0.082 χ^2/NDF : 7995801.5/66

cor_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 587.254 $\pm$ 482.434 χ^2 /NDF: 17.1/15

Left Out: -234.182 $\pm$ 347.367 χ^2 /NDF:17.9/16

Right Out: -448.412 $\pm$ 481.333 χ^2 /NDF: 16.8/18

Left In: -78.060 $\pm$ 356.346 χ^2 /NDF:11.0/14

Left: -158.113 $\pm$ 248.739 χ^2 /NDF: 29.0/31

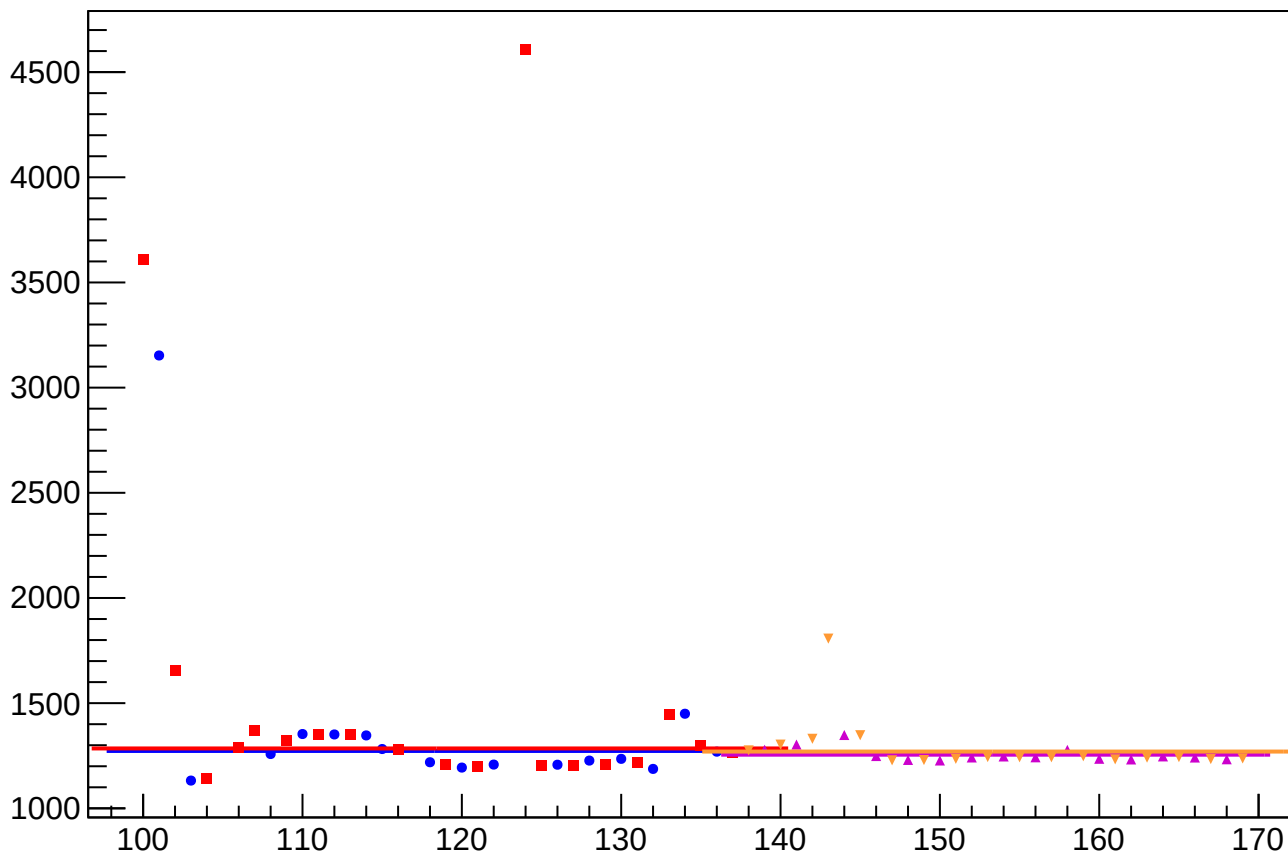
Right: 68.238 $\pm$ 340.742 χ^2 /NDF: 36.2/34

In: 156.795 $\pm$ 286.632 χ^2 /NDF:29.3/30

Out: -307.547 $\pm$ 281.676 χ^2 /NDF:34.8/35

All: -79.425 $\pm$ 200.904 χ^2 /NDF: 65.5/66

cor_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1272.804 $\pm$ 0.341 χ^2 /NDF: 519299.6/15

Left Out: 1269.880 $\pm$ 0.246 χ^2 /NDF: 165900.6/16

Right Out: 1284.654 $\pm$ 0.340 χ^2 /NDF: 328734.9/18

Left In: 1255.069 $\pm$ 0.252 χ^2 /NDF: 15976.9/14

Left: 1262.664 $\pm$ 0.176 χ^2 /NDF: 183648.9/31

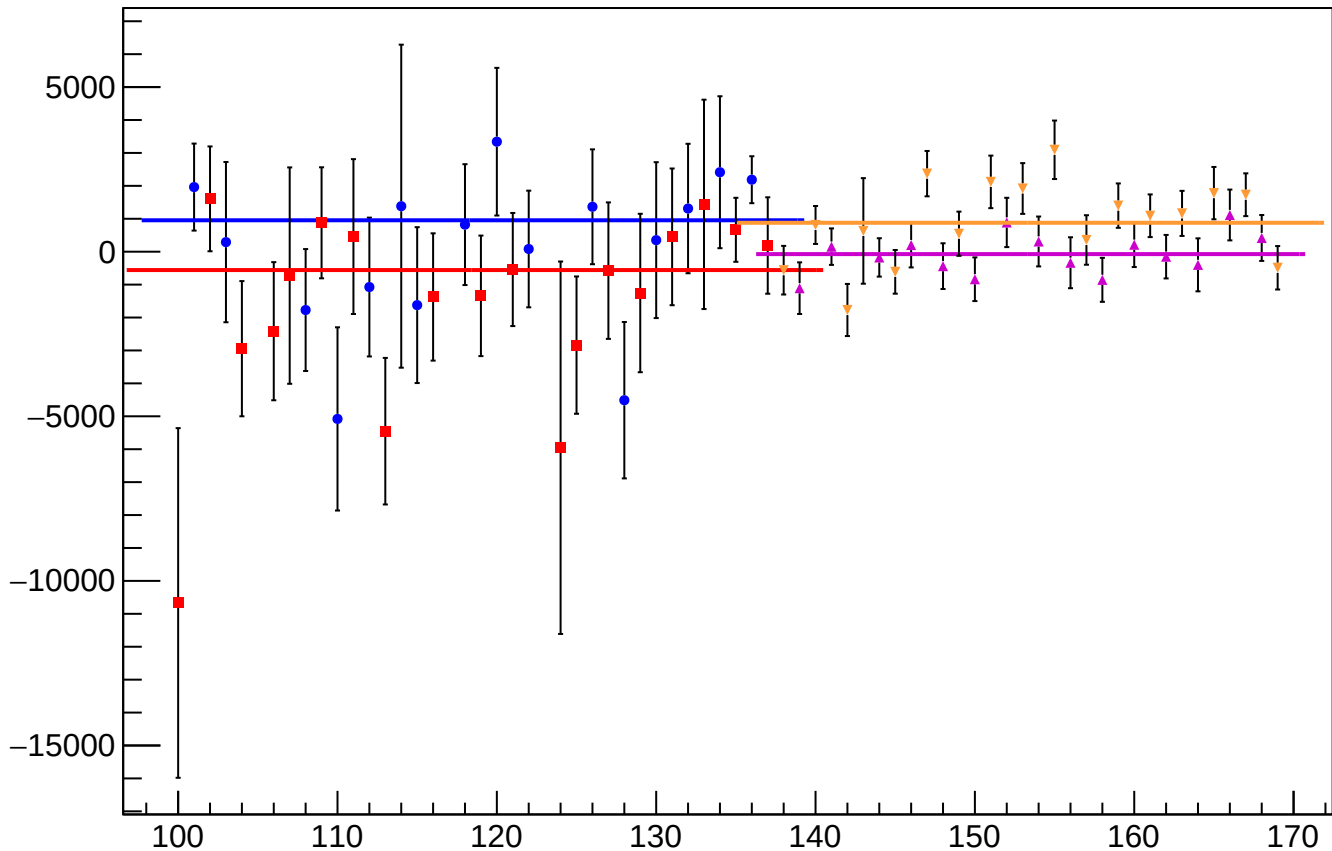
Right: 1278.743 $\pm$ 0.241 χ^2 /NDF: 848639.3/34

In: 1261.330 $\pm$ 0.203 χ^2 /NDF: 537025.1/30

Out: 1274.940 $\pm$ 0.199 χ^2 /NDF: 495874.5/35

All: 1268.253 $\pm$ 0.142 χ^2 /NDF: 1035193.5/60

asym_atl_dd_atr_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 954.146 $\pm$ 425.660 χ^2 /NDF: 19.9/15

Left Out: 878.469 $\pm$ 174.943 χ^2 /NDF:44.2/16

Right Out: -557.935 $\pm$ 440.758 χ^2 /NDF: 18.4/18

Left In: -73.333 $\pm$ 178.151 χ^2 /NDF:10.3/14

Left: 411.216 $\pm$ 124.822 χ^2 /NDF: 69.0/31

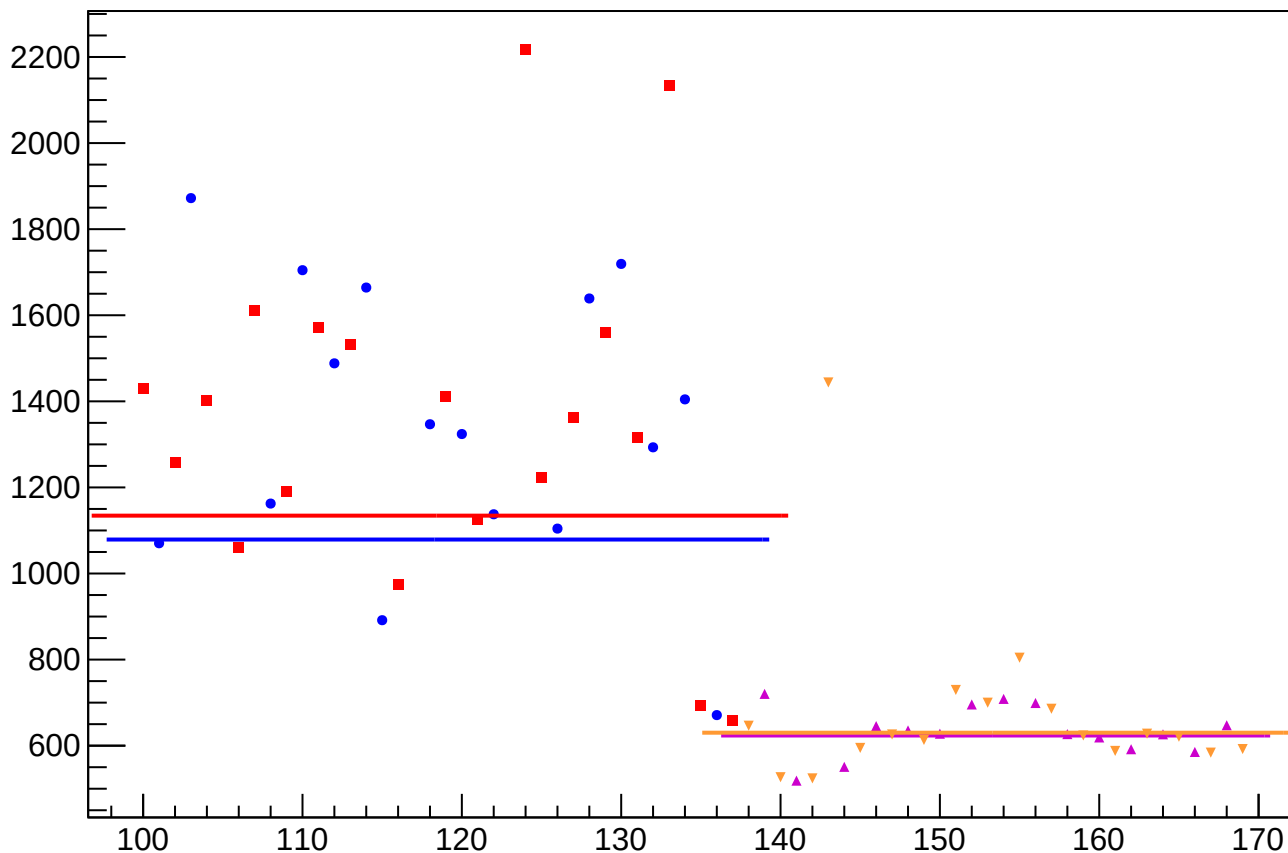
Right: 224.446 $\pm$ 306.186 χ^2 /NDF: 44.3/34

In: 79.819 $\pm$ 164.338 χ^2 /NDF:35.1/30

Out: 682.976 $\pm$ 162.603 χ^2 /NDF:71.7/35

All: 384.599 $\pm$ 115.586 χ^2 /NDF: 113.7/66

asym_atl_dd_atr_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1078.932 $\pm$ 0.301 χ^2 /NDF: 1478719.9/15

Left Out: 630.165 $\pm$ 0.124 χ^2 /NDF: 784386.8/16

Right Out: 1134.428 $\pm$ 0.312 χ^2 /NDF: 1288899.2/18

Left In: 623.645 $\pm$ 0.126 χ^2 /NDF: 210826.9/14

Left: 626.964 $\pm$ 0.088 χ^2 /NDF: 996577.2/31

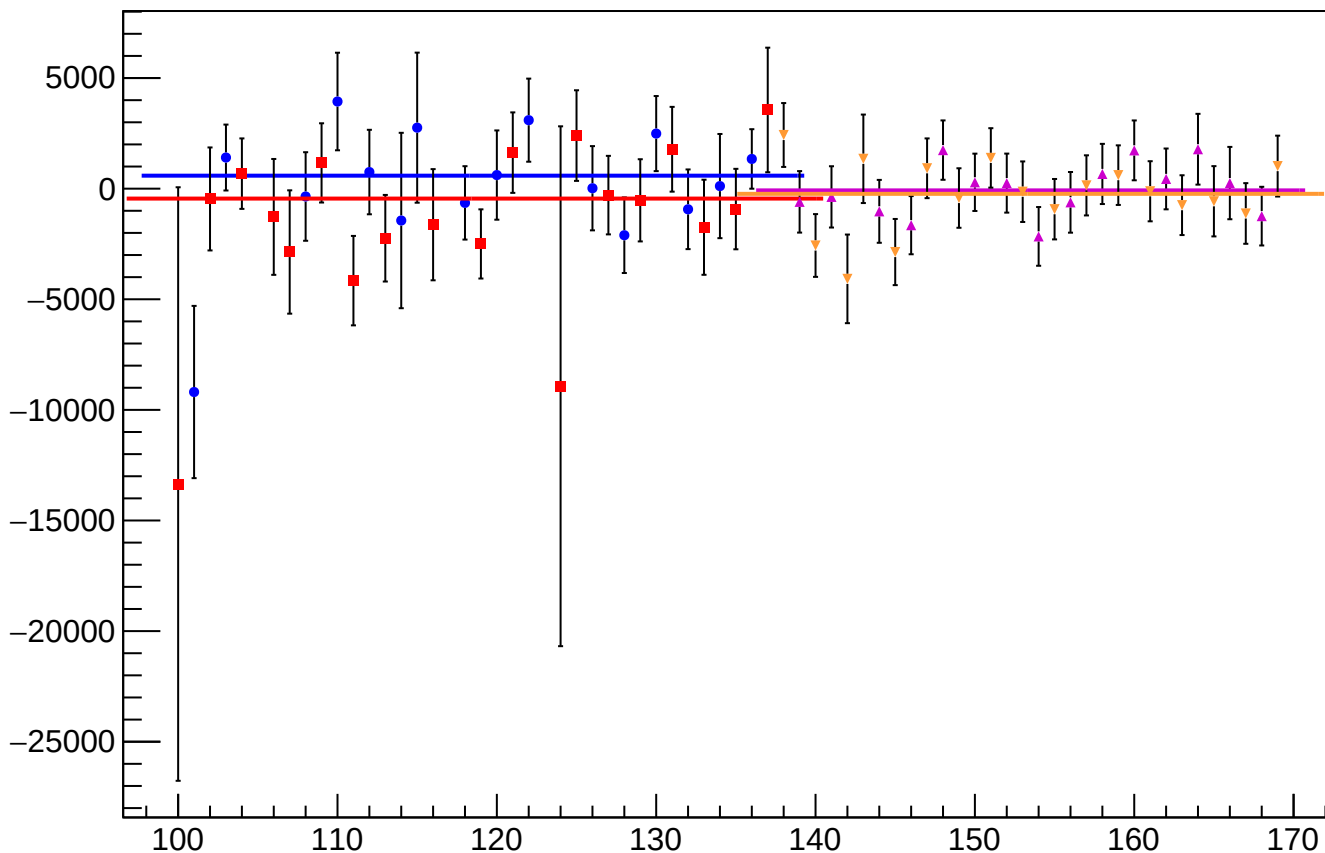
Right: 1105.713 $\pm$ 0.217 χ^2 /NDF: 2784024.9/34

In: 691.509 $\pm$ 0.116 χ^2 /NDF: 3636581.2/30

Out: 698.795 $\pm$ 0.115 χ^2 /NDF: 4334844.8/35

All: 695.190 $\pm$ 0.082 χ^2 /NDF: 7973412.4/66

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 587.254 $\pm$ 482.434 χ^2 /NDF: 17.1/15

Left Out: -234.182 $\pm$ 347.367 χ^2 /NDF:17.9/16

Right Out: -448.412 $\pm$ 481.333 χ^2 /NDF: 16.8/18

Left In: -78.060 $\pm$ 356.346 χ^2 /NDF:11.0/14

Left: -158.113 $\pm$ 248.739 χ^2 /NDF: 29.0/31

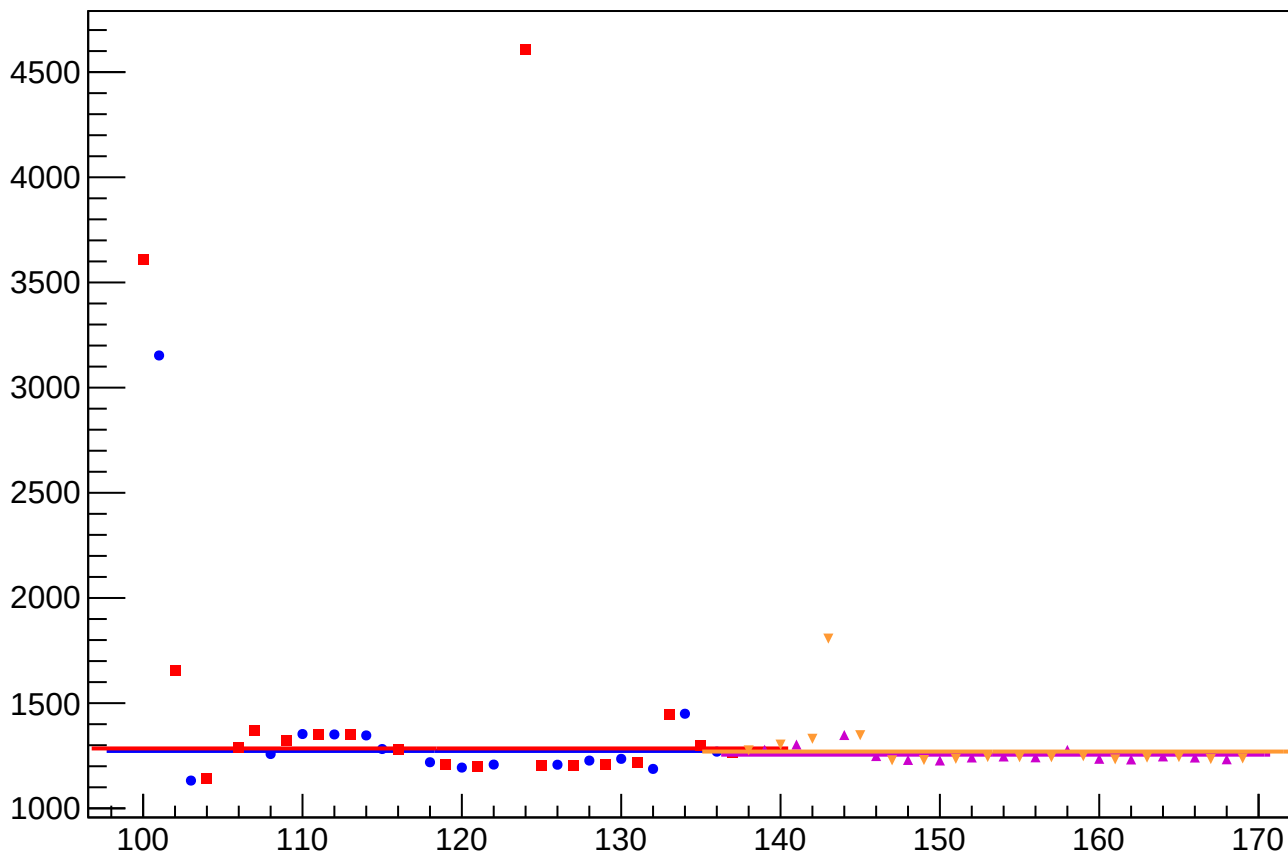
Right: 68.238 $\pm$ 340.742 χ^2 /NDF: 36.2/34

In: 156.795 $\pm$ 286.632 χ^2 /NDF:29.3/30

Out: -307.547 $\pm$ 281.676 χ^2 /NDF:34.8/35

All: -79.425 $\pm$ 200.904 χ^2 /NDF: 65.5/66

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1272.804+/-0.341 χ^2 /NDF: 519299.6/15

Left Out: 1269.880+/-0.246 χ^2 /NDF: 165900.6/16

Right Out: 1284.654+/-0.340 χ^2 /NDF: 328734.9/18

Left In: 1255.069+/-0.252 χ^2 /NDF: 15976.9/14

Left: 1262.664+/-0.176 χ^2 /NDF: 183648.9/31

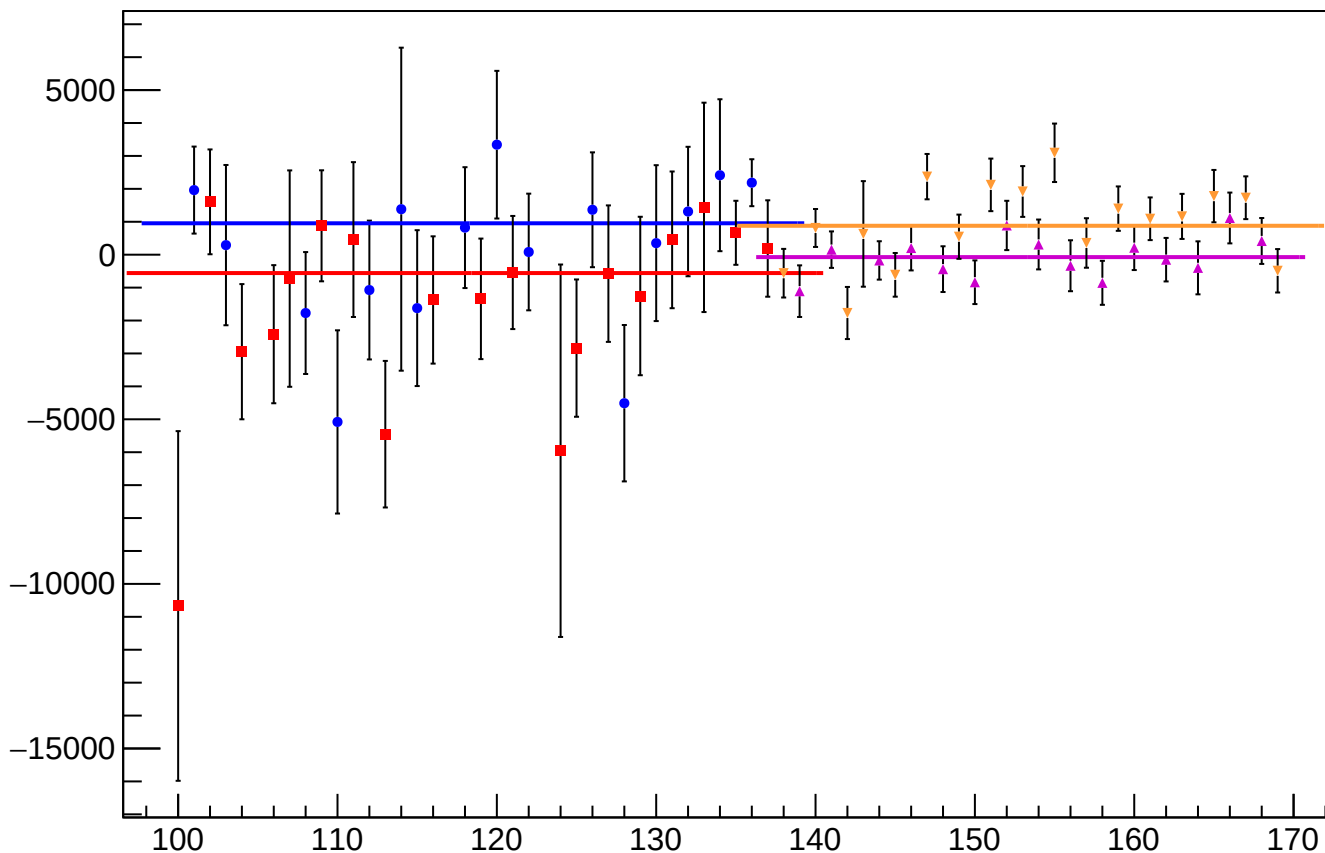
Right: 1278.743+/-0.241 χ^2 /NDF: 848639.3/34

In: 1261.330+/-0.203 χ^2 /NDF: 537025.1/30

Out: 1274.940+/-0.199 χ^2 /NDF: 495874.5/35

All: 1268.253+/-0.142 χ^2 /NDF: 1035193.5/66

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 954.146 $\pm$ 425.660 χ^2 /NDF: 19.9/15

Left Out: 878.469 $\pm$ 174.943 χ^2 /NDF:44.2/16

Right Out: -557.935 $\pm$ 440.758 χ^2 /NDF: 18.4/18

Left In: -73.333 $\pm$ 178.151 χ^2 /NDF:10.3/14

Left: 411.216 $\pm$ 124.822 χ^2 /NDF: 69.0/31

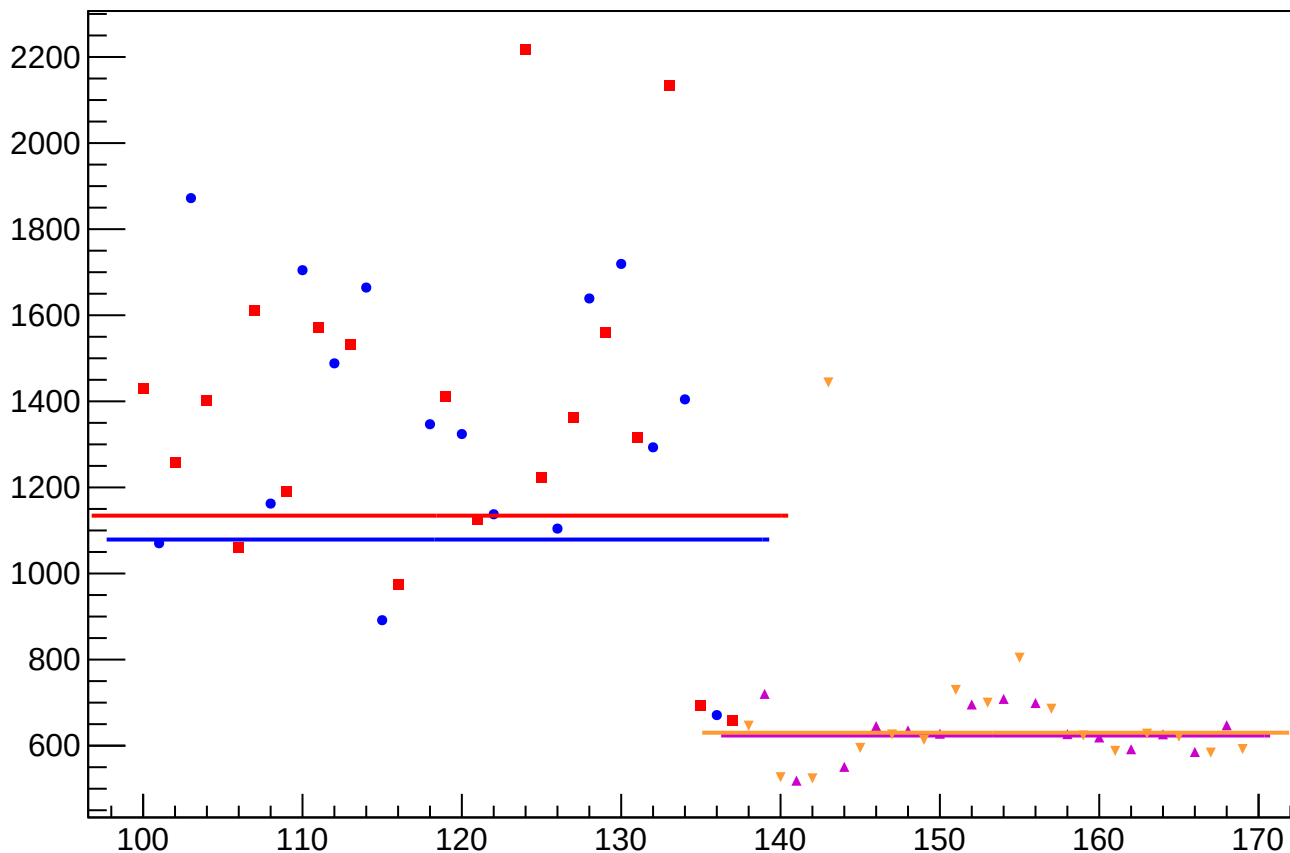
Right: 224.446 $\pm$ 306.186 χ^2 /NDF: 44.3/34

In: 79.819 $\pm$ 164.338 χ^2 /NDF:35.1/30

Out: 682.976 $\pm$ 162.603 χ^2 /NDF:71.7/35

All: 384.599 $\pm$ 115.586 χ^2 /NDF: 113.7/66

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1078.932+/-0.301 χ^2/NDF : 1478719.9/15

Left Out: 630.165+/-0.124 χ^2/NDF : 784386.8/16

Right Out: 1134.428+/-0.312 χ^2/NDF : 1288899.2/18

Left In: 623.645+/-0.126 χ^2/NDF : 210826.9/14

Left: 626.964+/-0.088 χ^2/NDF : 996577.2/31

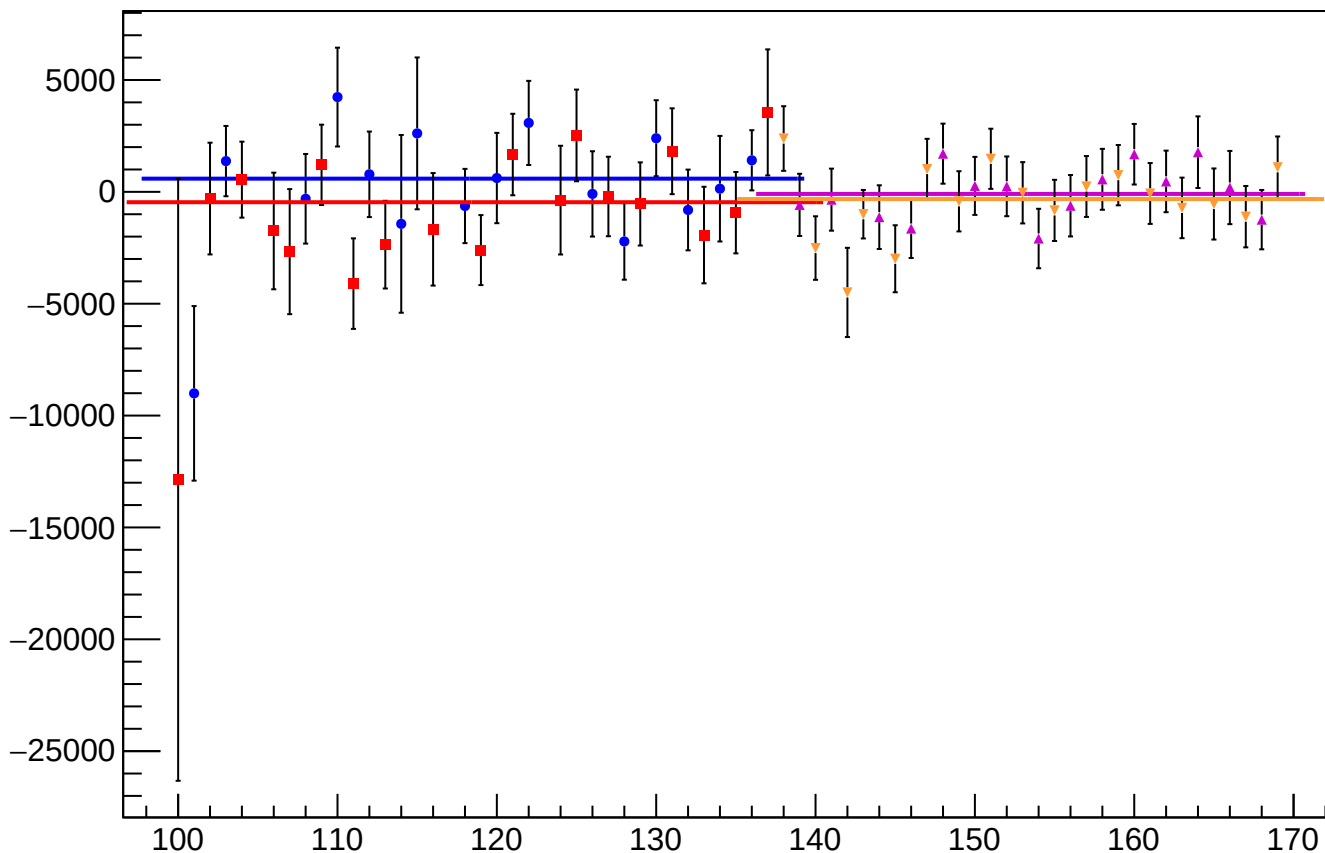
Right: 1105.713+/-0.217 χ^2/NDF : 2784024.9/34

In: 691.509+/-0.116 χ^2/NDF : 3636581.2/30

Out: 698.795+/-0.115 χ^2/NDF : 4334844.8/35

All: 695.190+/-0.082 χ^2/NDF : 7973412.4/66

dit_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 590.322+/-485.483 χ^2/NDF : 17.1/15

Left Out: -321.749+/-335.608 χ^2/NDF :19.1/16

Right Out: -462.606+/-476.795 χ^2/NDF : 16.7/18

Left In: -92.917+/-356.647 χ^2/NDF :10.7/14

Left: -214.281+/-244.410 χ^2/NDF : 30.0/31

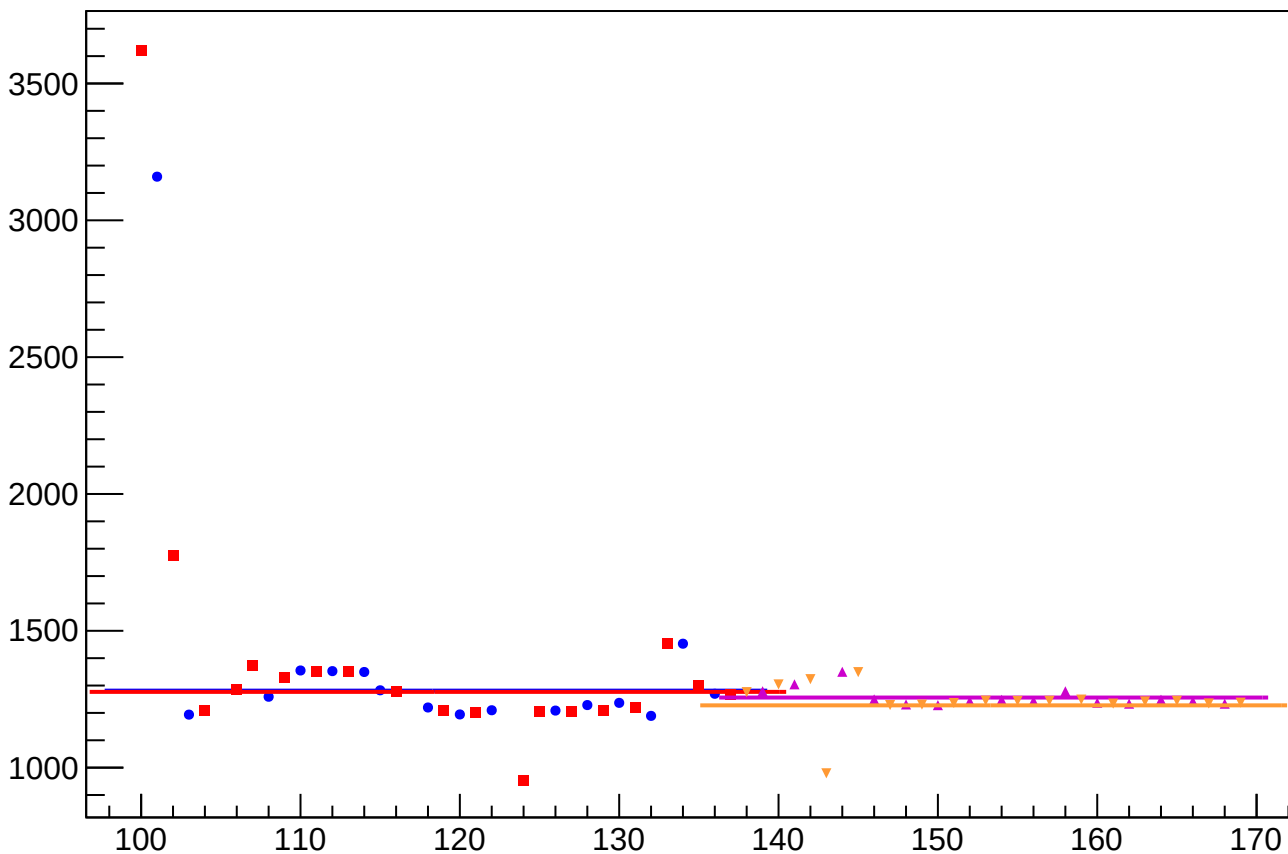
Right: 54.353+/-340.175 χ^2/NDF : 36.2/34

In: 146.565+/-287.425 χ^2/NDF :29.1/30

Out: -368.416+/-274.439 χ^2/NDF :35.9/35

All: -122.821+/-198.490 χ^2/NDF : 66.6/66

dit_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1281.369+/-0.343 χ^2/NDF : 507078.4/15

Left Out: 1227.608+/-0.237 χ^2/NDF :132896.8/16

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.6/18

Left In: 1256.125+/-0.252 χ^2/NDF :16096.9/14

Left: 1241.001+/-0.173 χ^2/NDF : 155775.1/31

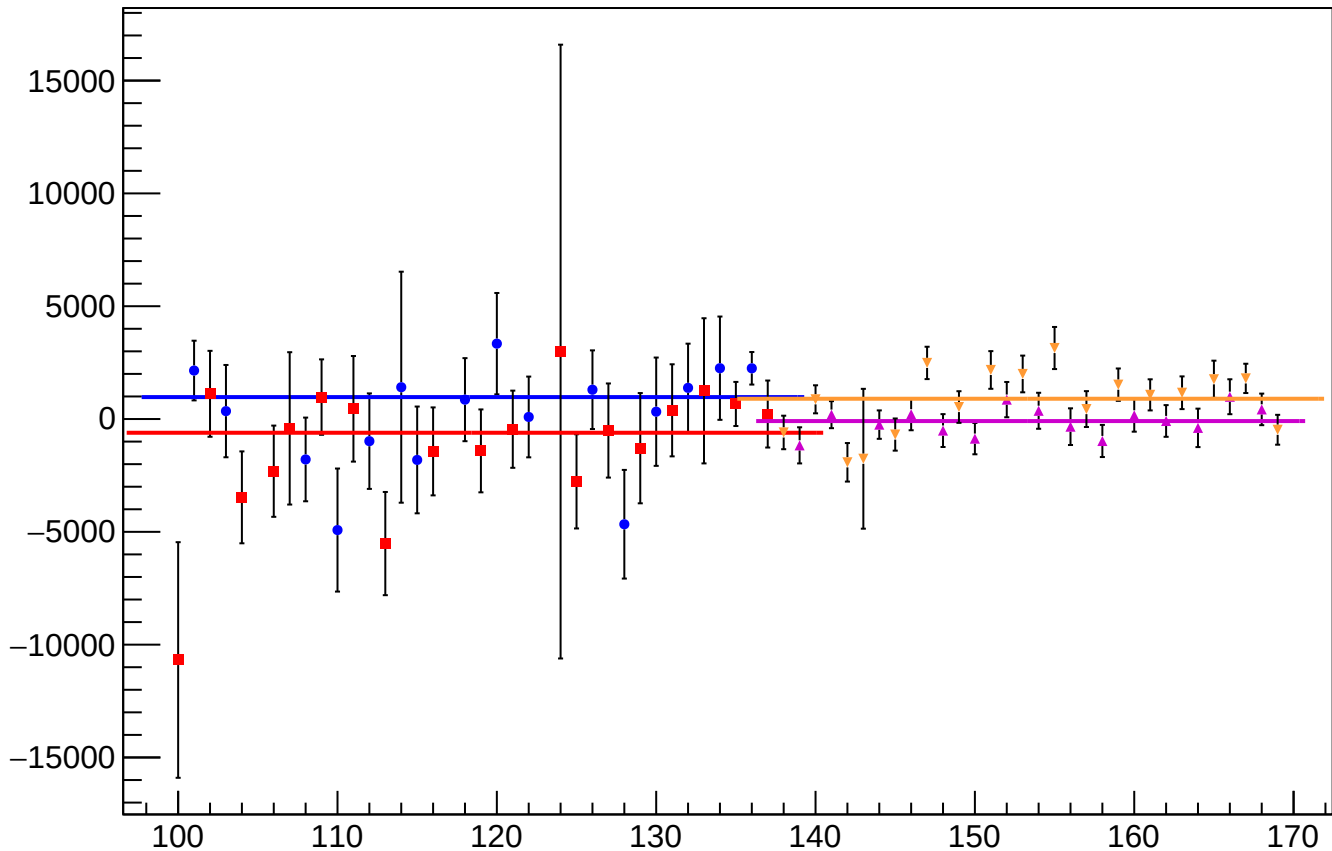
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1264.973+/-0.203 χ^2/NDF :526687.5/30

Out: 1243.926+/-0.194 χ^2/NDF :367681.1/35

All: 1253.963+/-0.140 χ^2/NDF : 899978.6/66

asym_atl_dd_atr_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.287 $\pm$ 425.219 χ^2 /NDF: 20.4/15

Left Out: 899.021 $\pm$ 183.884 χ^2 /NDF:44.4/16

Right Out: -608.431 $\pm$ 447.734 χ^2 /NDF: 17.1/18

Left In: -90.325 $\pm$ 187.197 χ^2 /NDF:10.0/14

Left: 413.180 $\pm$ 131.181 χ^2 /NDF: 68.6/31

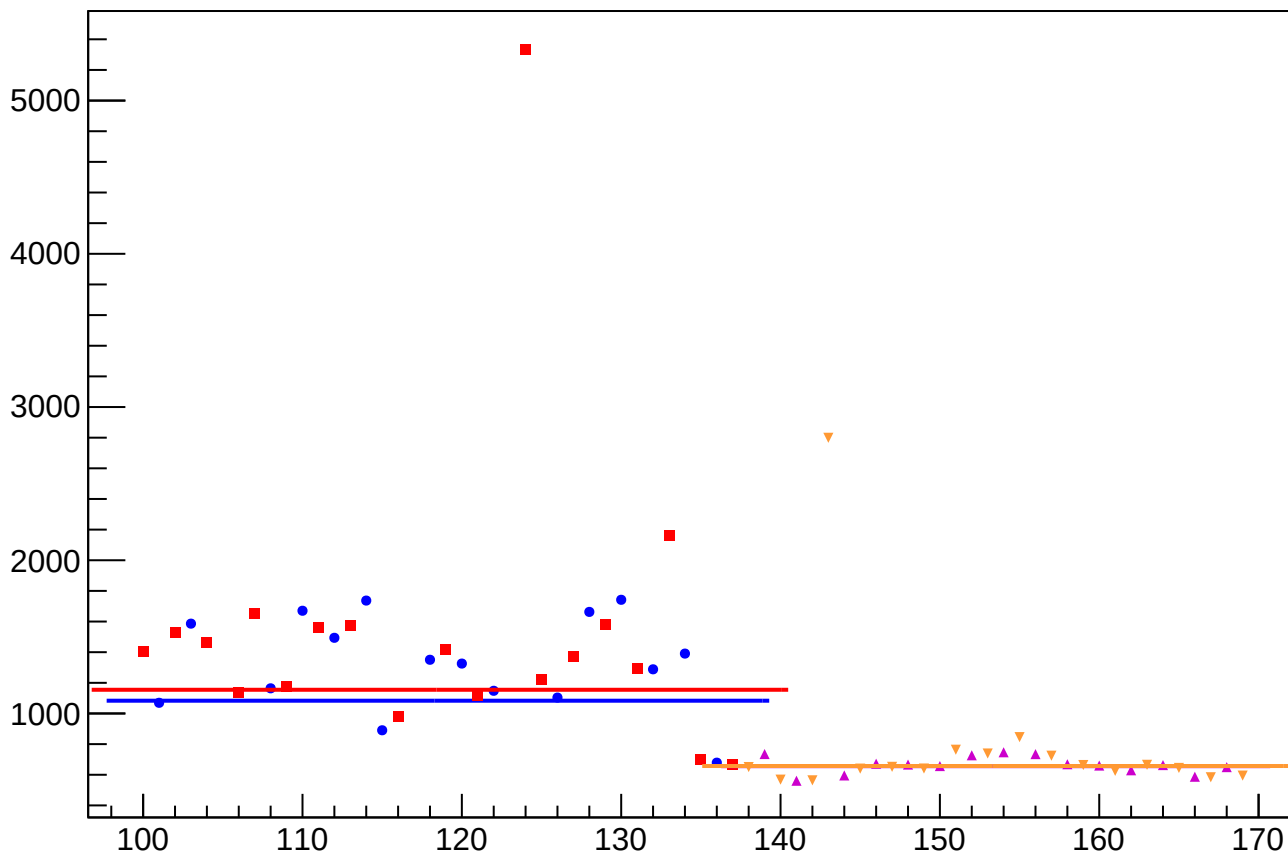
Right: 222.671 $\pm$ 308.328 χ^2 /NDF: 44.1/34

In: 82.184 $\pm$ 171.329 χ^2 /NDF:35.7/30

Out: 681.452 $\pm$ 170.097 χ^2 /NDF:71.2/35

All: 383.980 $\pm$ 120.710 χ^2 /NDF: 113.1/66

asym_atl_dd_atr_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1083.335+/-0.301 χ^2/NDF : 1360153.3/15

Left Out: 657.104+/-0.130 χ^2/NDF : 1220119.3/16

Right Out: 1154.724+/-0.317 χ^2/NDF : 1488304.5/18

Left In: 656.018+/-0.132 χ^2/NDF : 170758.2/14

Left: 656.570+/-0.093 χ^2/NDF : 1390911.9/31

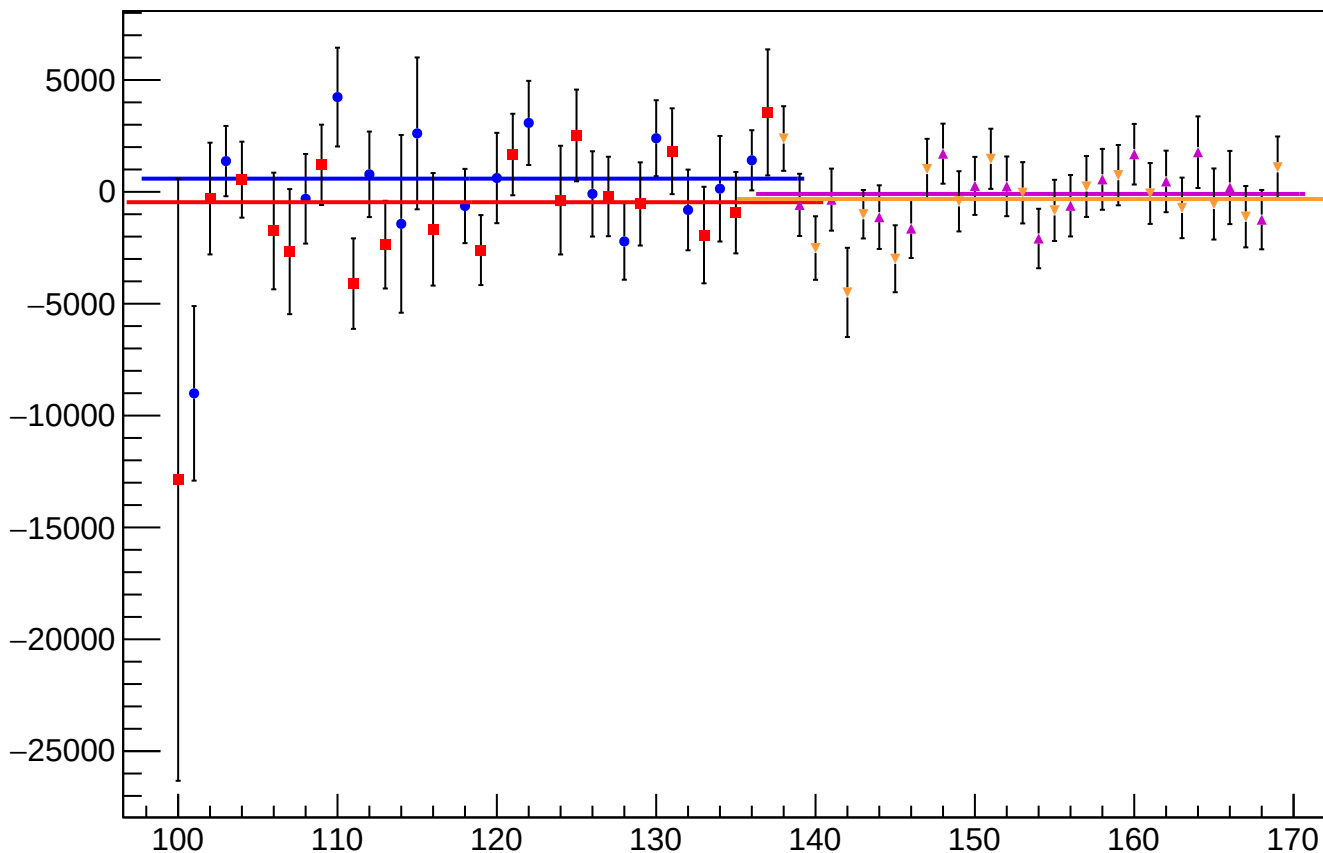
Right: 1117.189+/-0.218 χ^2/NDF : 2875191.7/34

In: 725.390+/-0.121 χ^2/NDF : 3222797.7/30

Out: 728.925+/-0.120 χ^2/NDF : 4822365.0/35

All: 727.170+/-0.085 χ^2/NDF : 8045591.4/66

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 590.323+/-485.483 χ^2/NDF : 17.1/15

Left Out: -321.751+/-335.608 χ^2/NDF :19.1/16

Right Out: -462.605+/-476.795 χ^2/NDF : 16.7/18

Left In: -92.916+/-356.647 χ^2/NDF :10.7/14

Left: -214.282+/-244.410 χ^2/NDF : 30.0/31

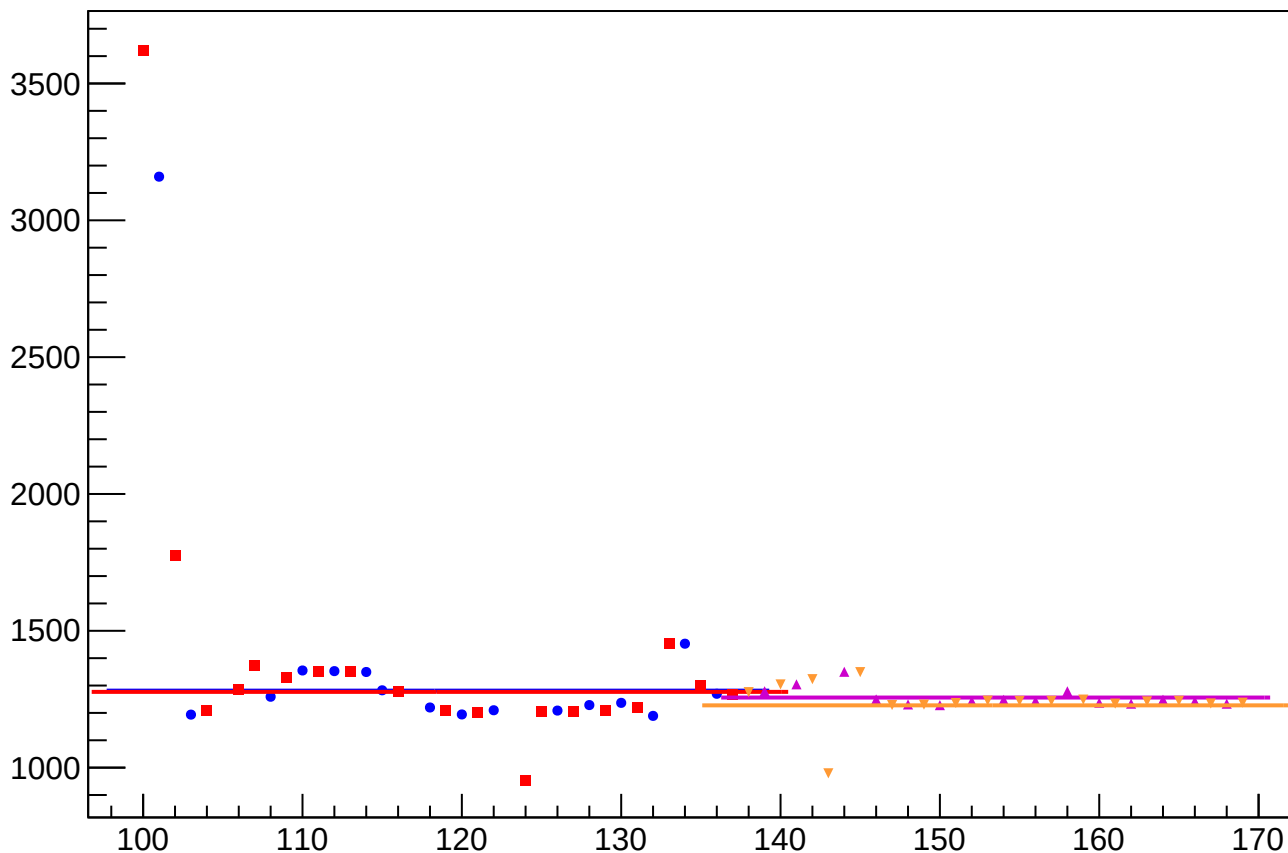
Right: 54.354+/-340.175 χ^2/NDF : 36.2/34

In: 146.567+/-287.425 χ^2/NDF :29.1/30

Out: -368.417+/-274.439 χ^2/NDF :35.9/35

All: -122.821+/-198.490 χ^2/NDF : 66.6/66

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1281.369+/-0.343 χ^2/NDF : 507078.6/15

Left Out: 1227.608+/-0.237 χ^2/NDF :132896.0/16

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.5/18

Left In: 1256.125+/-0.252 χ^2/NDF :16096.9/14

Left: 1241.001+/-0.173 χ^2/NDF : 155774.3/31

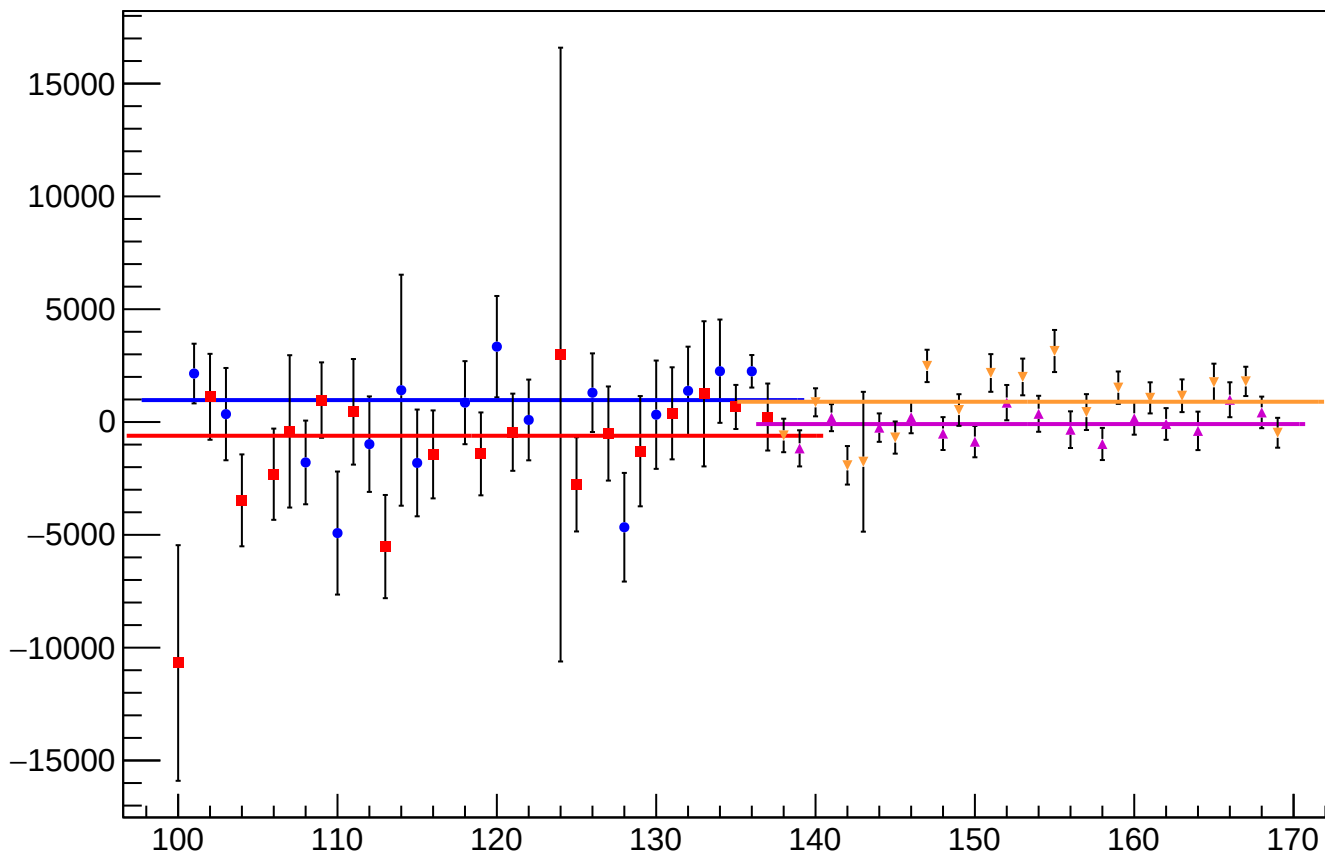
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1264.973+/-0.203 χ^2/NDF :526687.6/30

Out: 1243.926+/-0.194 χ^2/NDF :367680.1/35

All: 1253.963+/-0.140 χ^2/NDF : 899977.7/66

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.281+/-425.220 χ^2/NDF : 20.4/15

Left Out: 899.023+/-183.884 χ^2/NDF :44.4/16

Right Out: -608.441+/-447.736 χ^2/NDF : 17.1/18

Left In: -90.323+/-187.197 χ^2/NDF :10.0/14

Left: 413.181+/-131.181 χ^2/NDF : 68.6/31

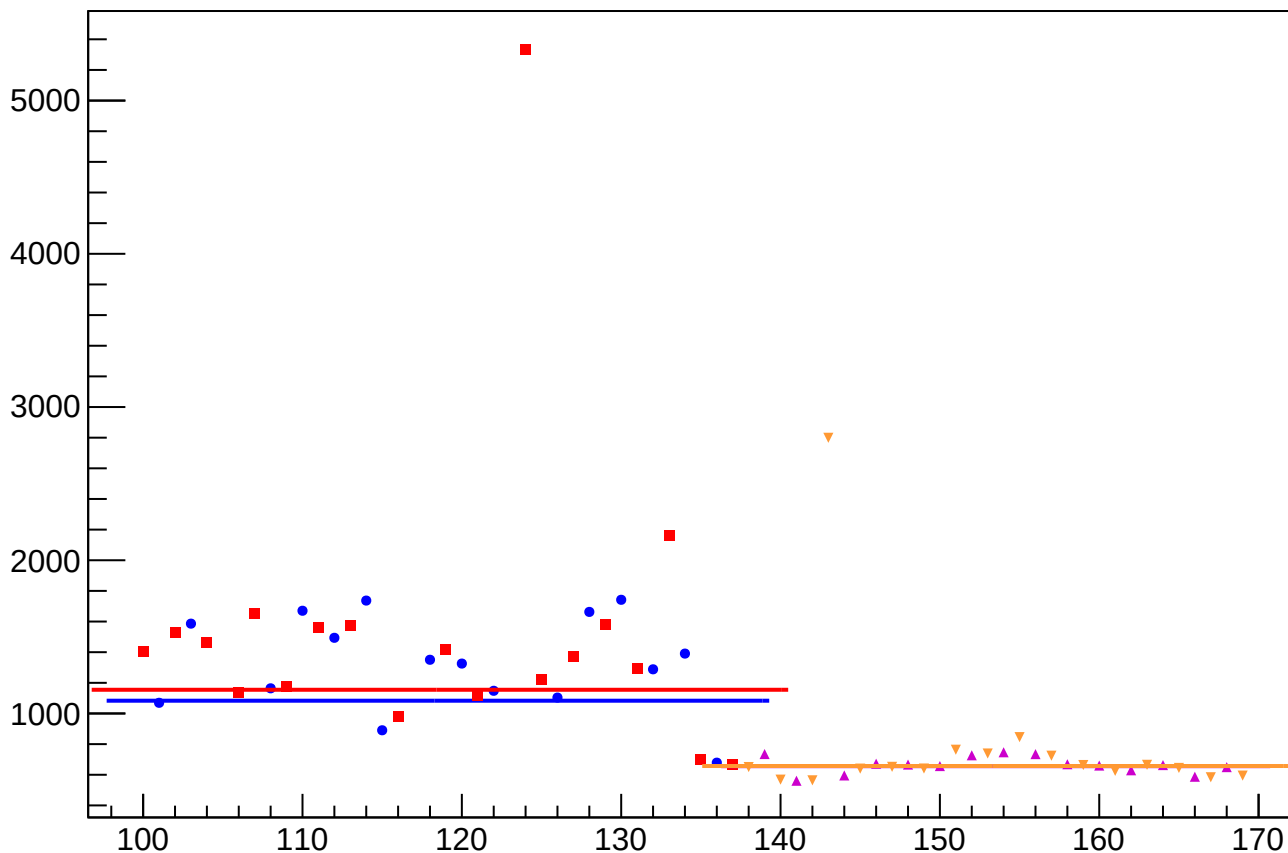
Right: 222.664+/-308.329 χ^2/NDF : 44.1/34

In: 82.183+/-171.329 χ^2/NDF :35.7/30

Out: 681.454+/-170.097 χ^2/NDF :71.2/35

All: 383.981+/-120.710 χ^2/NDF : 113.1/66

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1083.341+/-0.301 χ^2/NDF : 1360095.7/15

Left Out: 657.104+/-0.130 χ^2/NDF : 1220114.8/16

Right Out: 1154.732+/-0.317 χ^2/NDF : 1488251.4/18

Left In: 656.017+/-0.132 χ^2/NDF : 170761.7/14

Left: 656.570+/-0.093 χ^2/NDF : 1390910.8/31

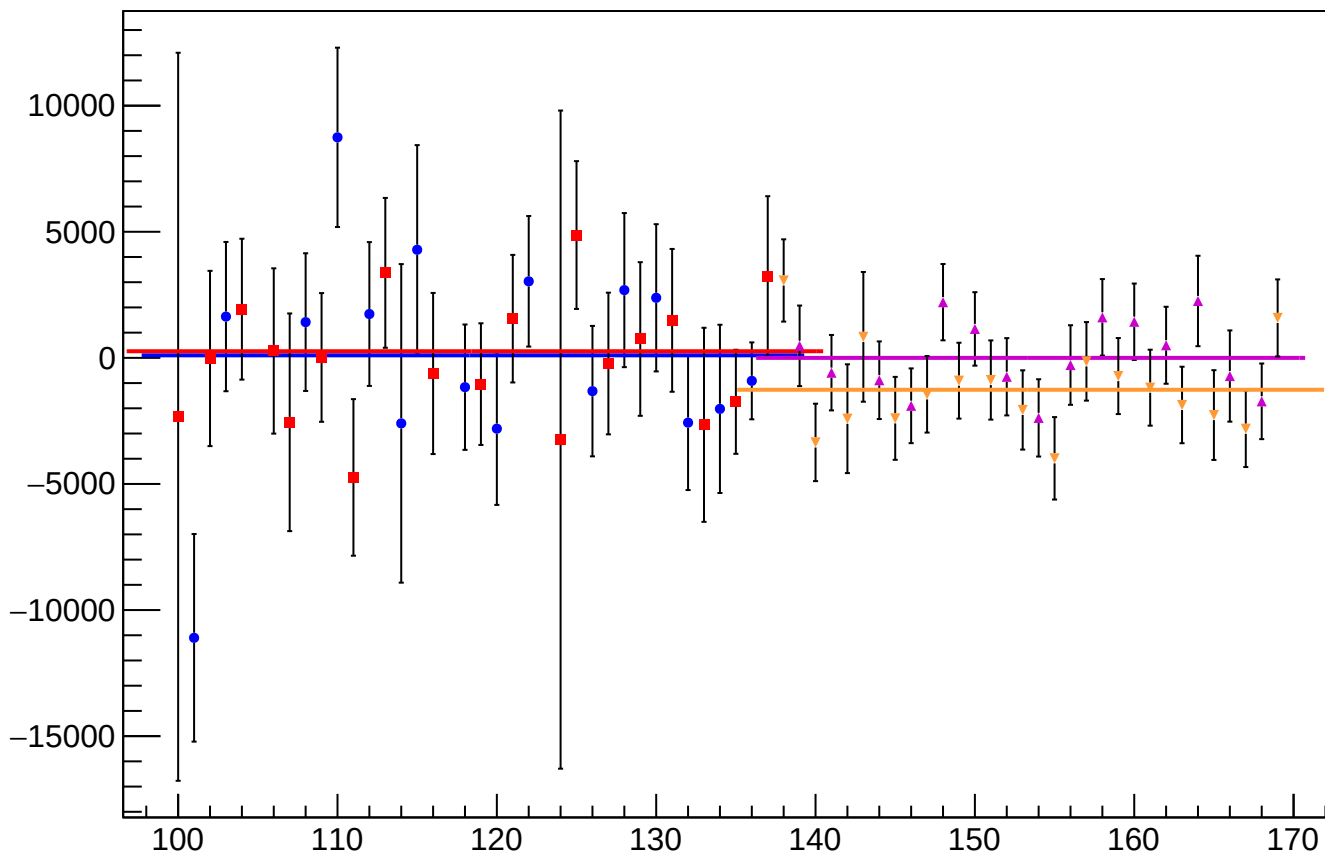
Right: 1117.196+/-0.218 χ^2/NDF : 2875081.4/34

In: 725.390+/-0.121 χ^2/NDF : 3222788.4/30

Out: 728.926+/-0.120 χ^2/NDF : 4822350.9/35

All: 727.171+/-0.085 χ^2/NDF : 8045568.3/66

asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected



Right In: 100.451 $\pm$ 698.983 χ^2 /NDF: 21.3/15

Left Out: -1264.590 $\pm$ 392.127 χ^2 /NDF:19.1/16

Right Out: 262.731 $\pm$ 699.724 χ^2 /NDF: 10.3/18

Left In: -0.519 $\pm$ 400.350 χ^2 /NDF:12.8/14

Left: -645.671 $\pm$ 280.138 χ^2 /NDF: 37.1/31

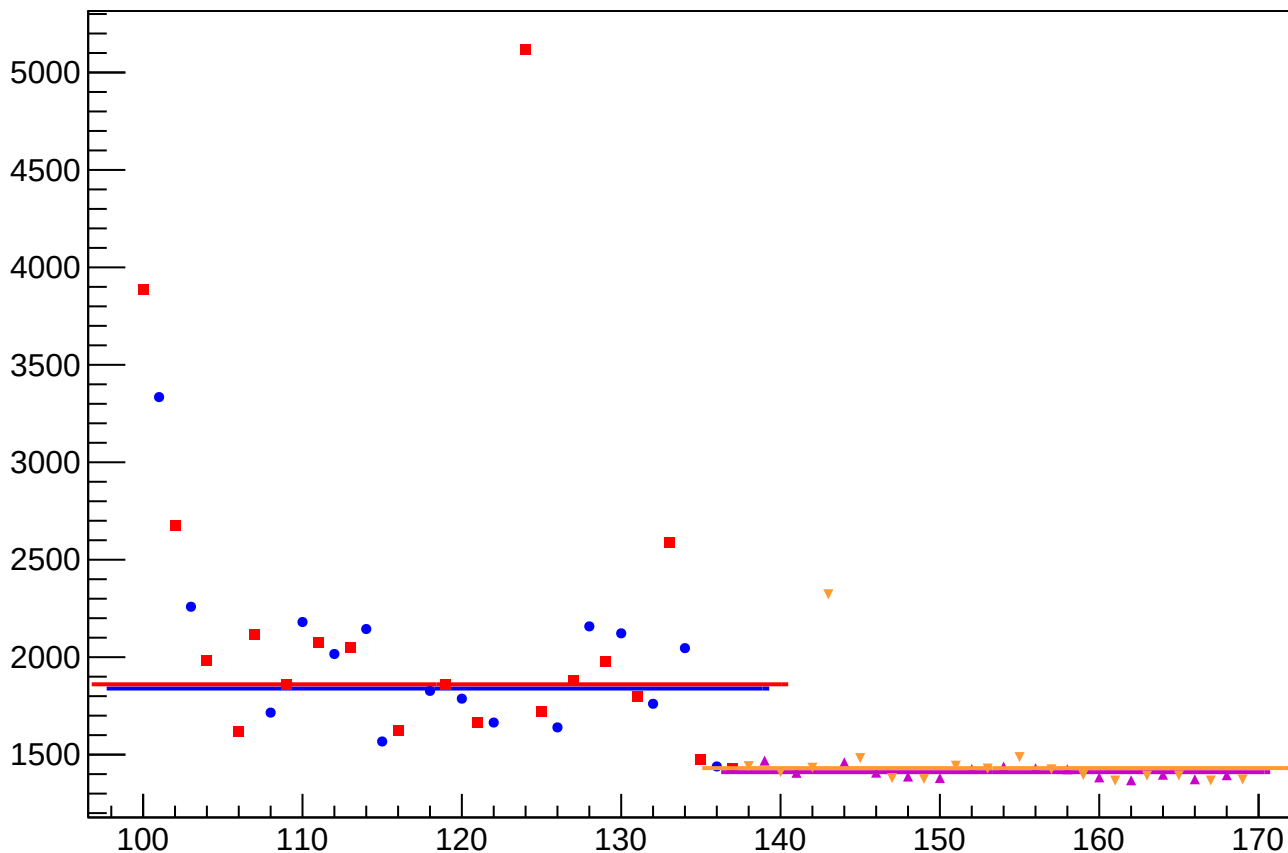
Right: 181.505 $\pm$ 494.518 χ^2 /NDF: 31.6/34

In: 24.422 $\pm$ 347.402 χ^2 /NDF:34.1/30

Out: -899.570 $\pm$ 342.074 χ^2 /NDF:33.1/35

All: -444.713 $\pm$ 243.745 χ^2 /NDF: 70.8/66

asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1839.113 $\pm$ 0.494 χ^2 /NDF: 556725.4/15

Left Out: 1430.716 $\pm$ 0.277 χ^2 /NDF: 263571.5/16

Right Out: 1860.754 $\pm$ 0.495 χ^2 /NDF: 522114.2/18

Left In: 1410.081 $\pm$ 0.283 χ^2 /NDF: 10863.4/14

Left: 1420.612 $\pm$ 0.198 χ^2 /NDF: 277146.7/31

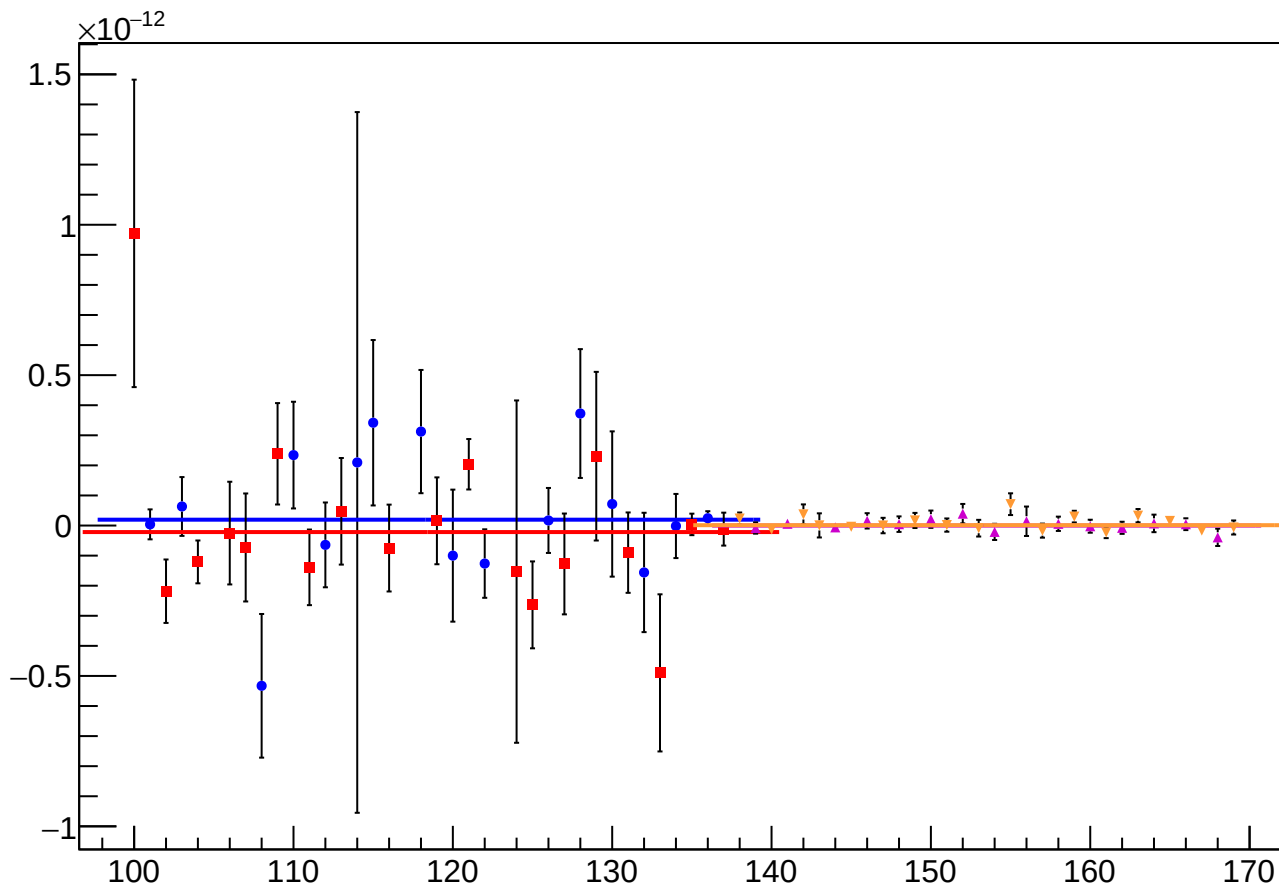
Right: 1849.922 $\pm$ 0.350 χ^2 /NDF: 1079797.1/34

In: 1516.060 $\pm$ 0.246 χ^2 /NDF: 1134953.3/30

Out: 1533.494 $\pm$ 0.242 χ^2 /NDF: 1360576.8/35

All: 1524.912 $\pm$ 0.172 χ^2 /NDF: 2498087.3/66

asym_atl_dd_atr_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 17.2/16

Right Out: -0.000+/-0.000 χ^2/NDF : 28.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 5.8/14

Left: 0.000+/-0.000 χ^2/NDF : 23.0/31

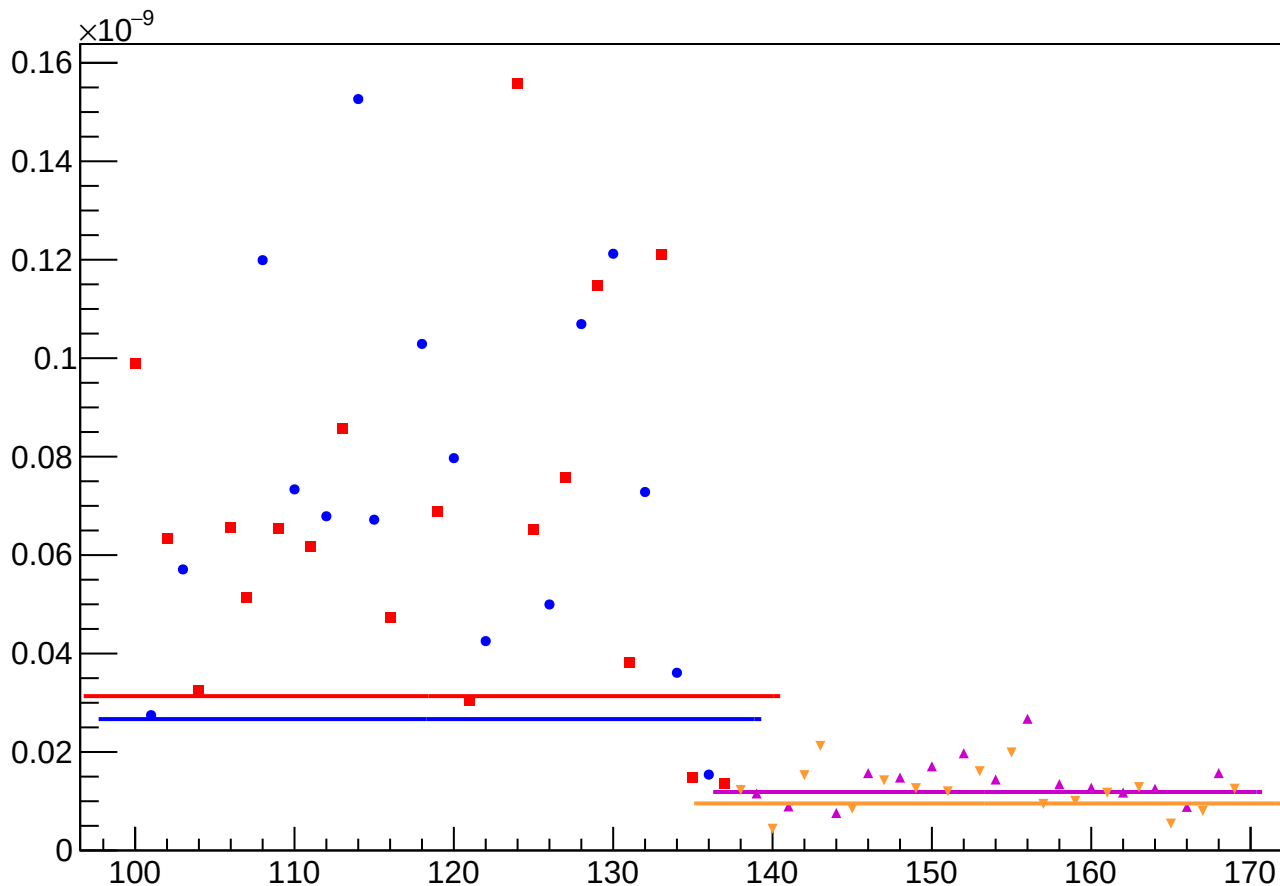
Right: 0.000+/-0.000 χ^2/NDF : 46.7/34

In: 0.000+/-0.000 χ^2/NDF : 23.3/30

Out: 0.000+/-0.000 χ^2/NDF : 46.4/35

All: 0.000+/-0.000 χ^2/NDF : 69.7/66

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2580672.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1390760.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2275167.3/18

Left In: 0.000+/-0.000 χ^2/NDF :824887.8/14

Left: 0.000+/-0.000 χ^2/NDF : 2411705.6/31

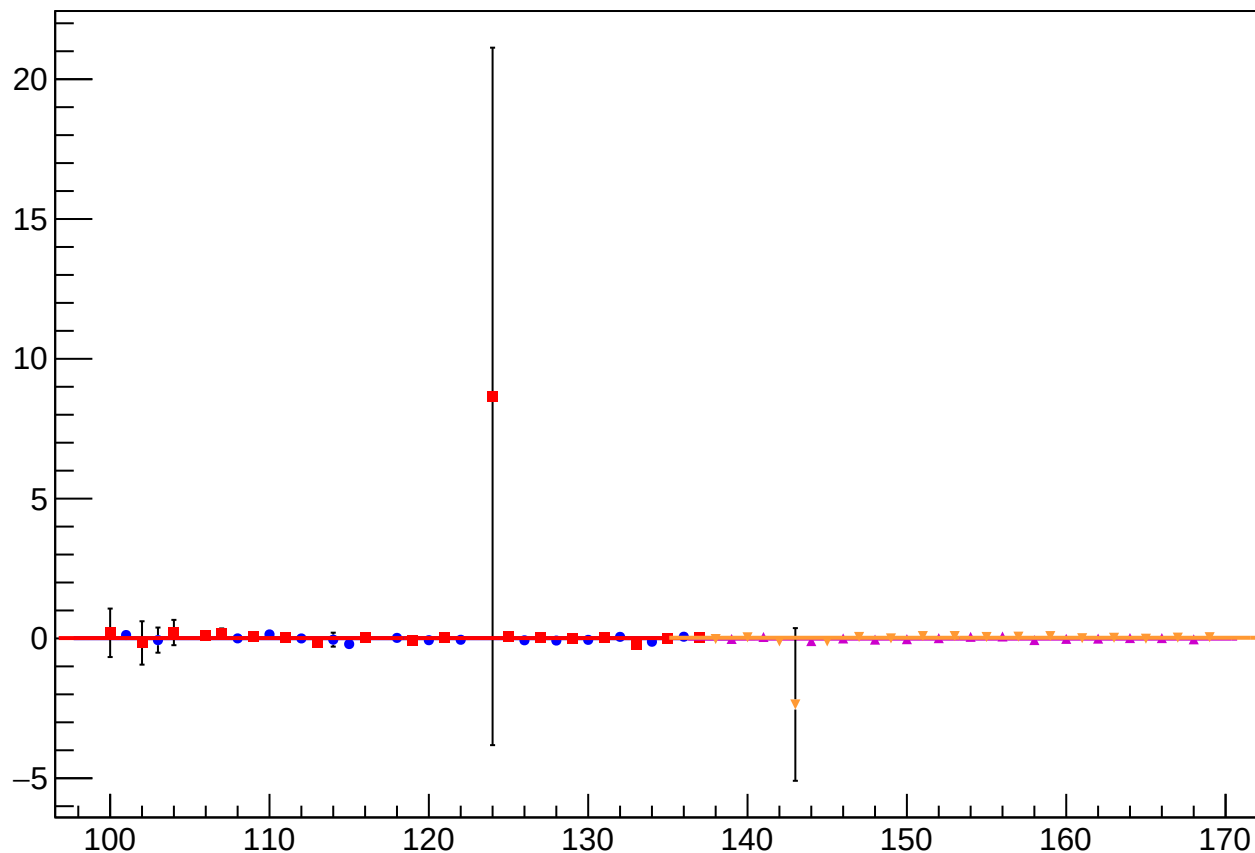
Right: 0.000+/-0.000 χ^2/NDF : 4906978.5/34

In: 0.000+/-0.000 χ^2/NDF :4540742.8/30

Out: 0.000+/-0.000 χ^2/NDF :5494755.7/35

All: 0.000+/-0.000 χ^2/NDF : 10303168.6/66

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.024 $\pm$ 0.010 χ^2 /NDF:17.7/16

Right Out: 0.012 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.008 $\pm$ 0.011 χ^2 /NDF:10.7/14

Left: 0.009 $\pm$ 0.008 χ^2 /NDF: 32.9/31

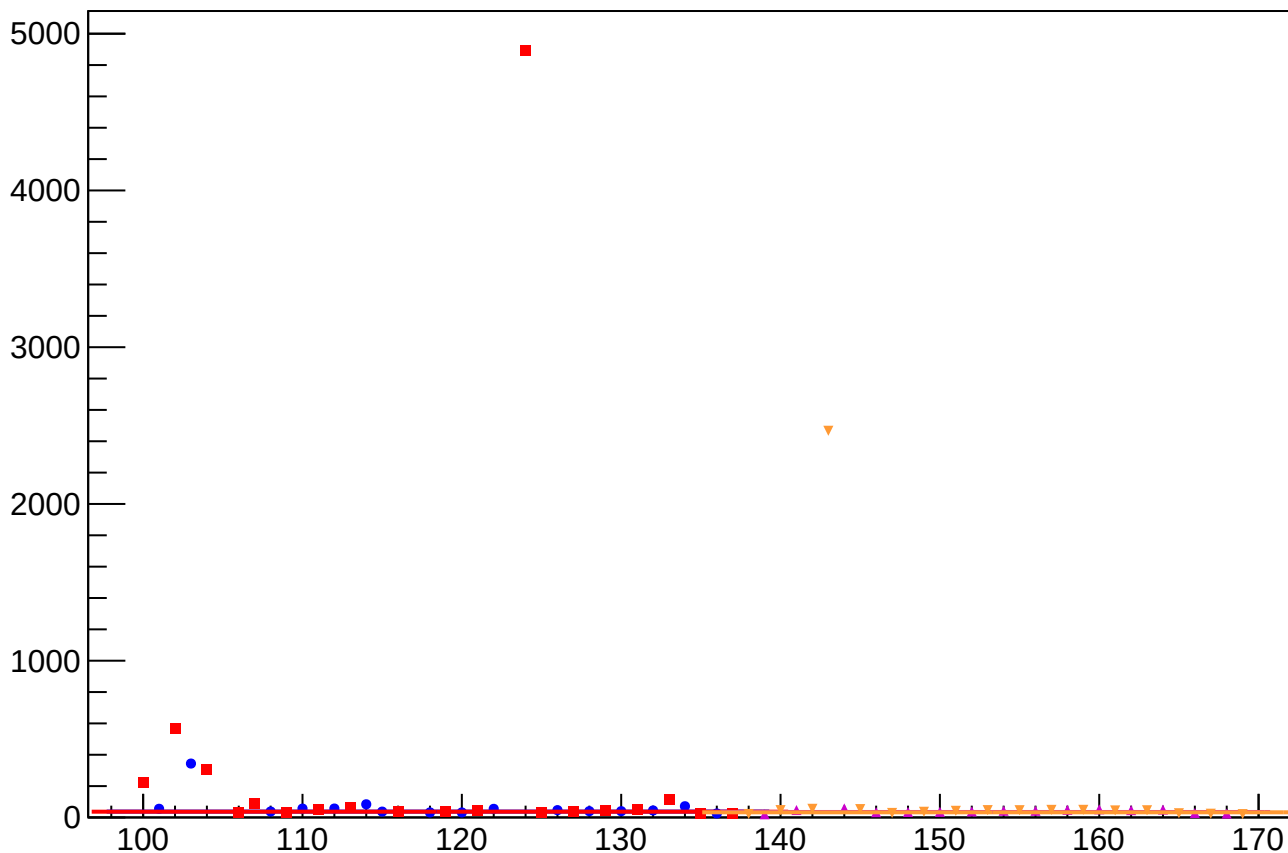
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: -0.003 $\pm$ 0.009 χ^2 /NDF:30.7/30

Out: 0.021 $\pm$ 0.009 χ^2 /NDF:30.6/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 64.8/66

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.494 $\pm$ 0.011 χ^2 /NDF: 1983275.6/15

Left Out: 32.846 $\pm$ 0.007 χ^2 /NDF: 3960562.7/16

Right Out: 36.767 $\pm$ 0.012 χ^2 /NDF: 3190700.2/18

Left In: 34.882 $\pm$ 0.008 χ^2 /NDF: 1867153.7/14

Left: 33.803 $\pm$ 0.005 χ^2 /NDF: 5864031.0/31

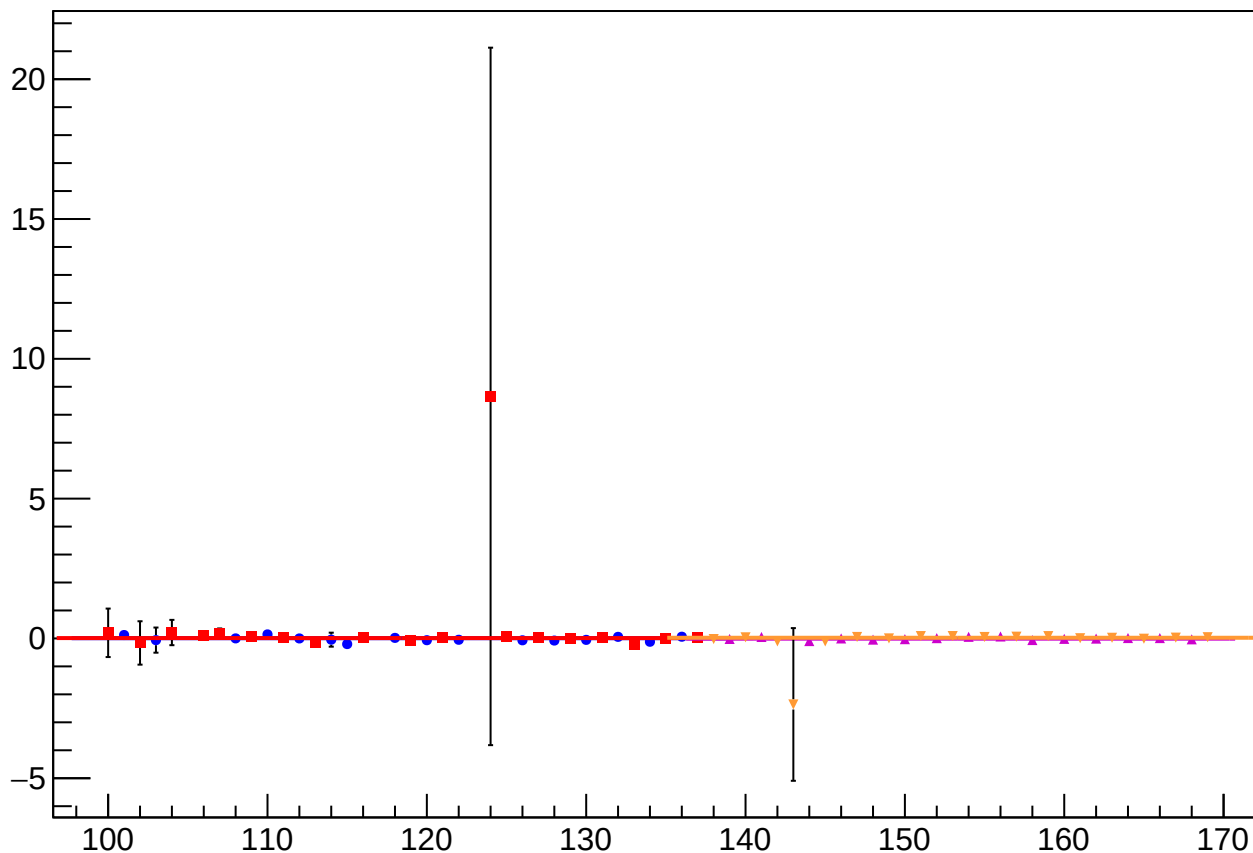
Right: 37.143 $\pm$ 0.008 χ^2 /NDF: 5175953.4/34

In: 35.714 $\pm$ 0.006 χ^2 /NDF: 3886412.2/30

Out: 33.943 $\pm$ 0.006 χ^2 /NDF: 7231459.1/35

All: 34.800 $\pm$ 0.004 χ^2 /NDF: 11157198.5/66

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.024 $\pm$ 0.010 χ^2 /NDF:17.7/16

Right Out: 0.012 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.008 $\pm$ 0.011 χ^2 /NDF:10.7/14

Left: 0.009 $\pm$ 0.008 χ^2 /NDF: 32.9/31

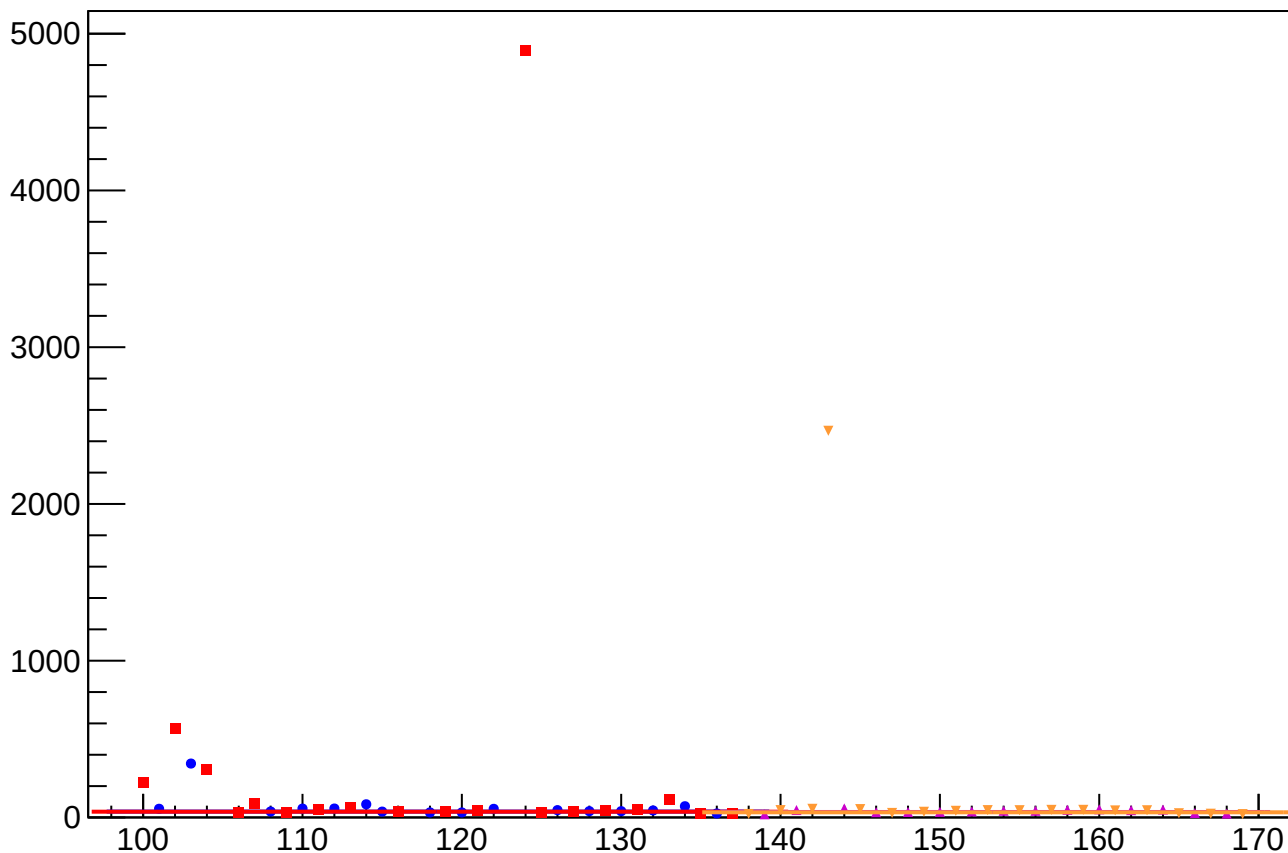
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: -0.003 $\pm$ 0.009 χ^2 /NDF:30.7/30

Out: 0.021 $\pm$ 0.009 χ^2 /NDF:30.6/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 64.8/66

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.494+/-0.011 χ^2/NDF : 1983275.6/15

Left Out: 32.846+/-0.007 χ^2/NDF : 3960562.7/16

Right Out: 36.767+/-0.012 χ^2/NDF : 3190700.2/18

Left In: 34.882+/-0.008 χ^2/NDF : 1867153.7/14

Left: 33.803+/-0.005 χ^2/NDF : 5864031.0/31

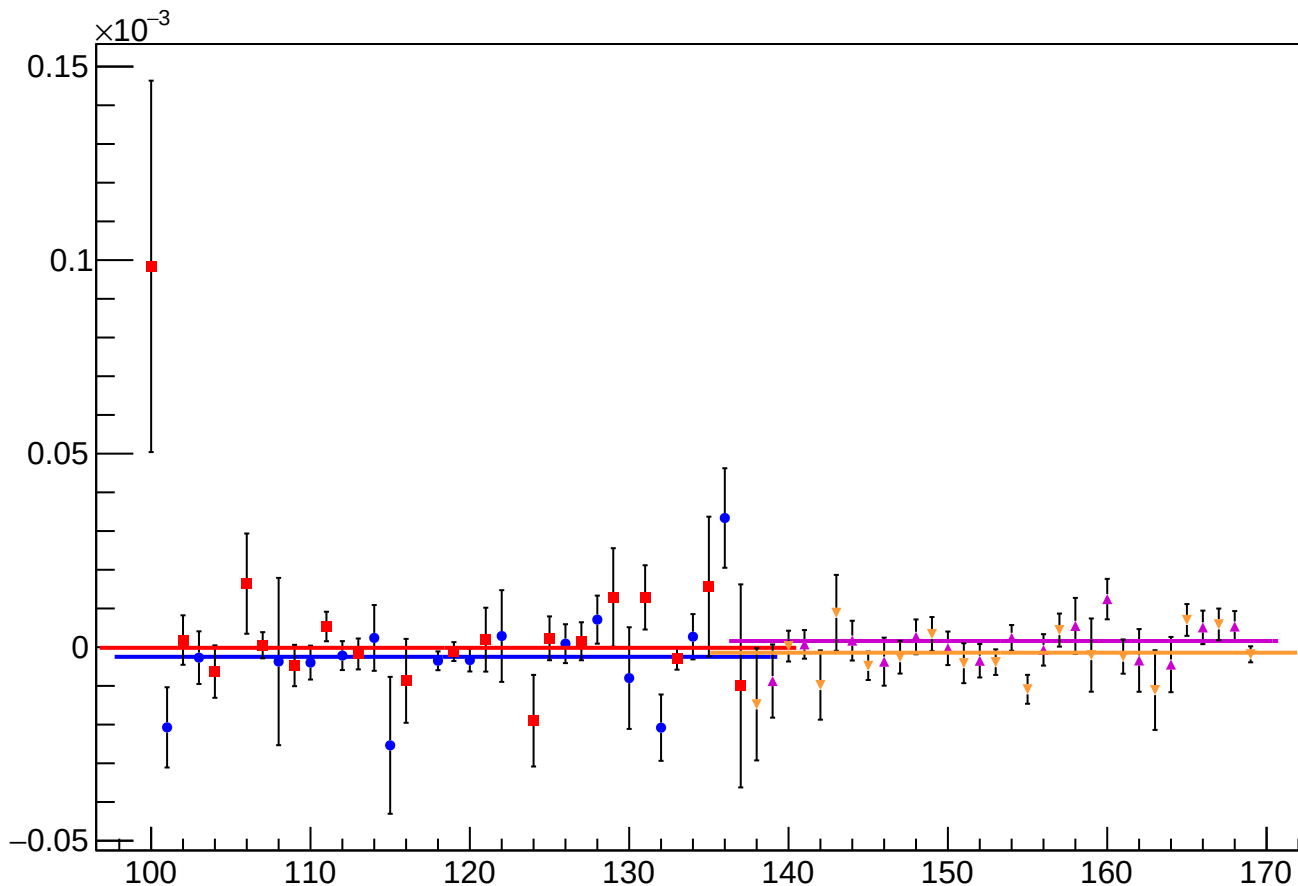
Right: 37.143+/-0.008 χ^2/NDF : 5175953.4/34

In: 35.714+/-0.006 χ^2/NDF : 3886412.2/30

Out: 33.943+/-0.006 χ^2/NDF : 7231459.1/35

All: 34.800+/-0.004 χ^2/NDF : 11157198.5/66

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 21.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 22.7/16

Right Out: -0.000+/-0.000 χ^2/NDF : 18.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 11.3/14

Left: -0.000+/-0.000 χ^2/NDF : 37.5/31

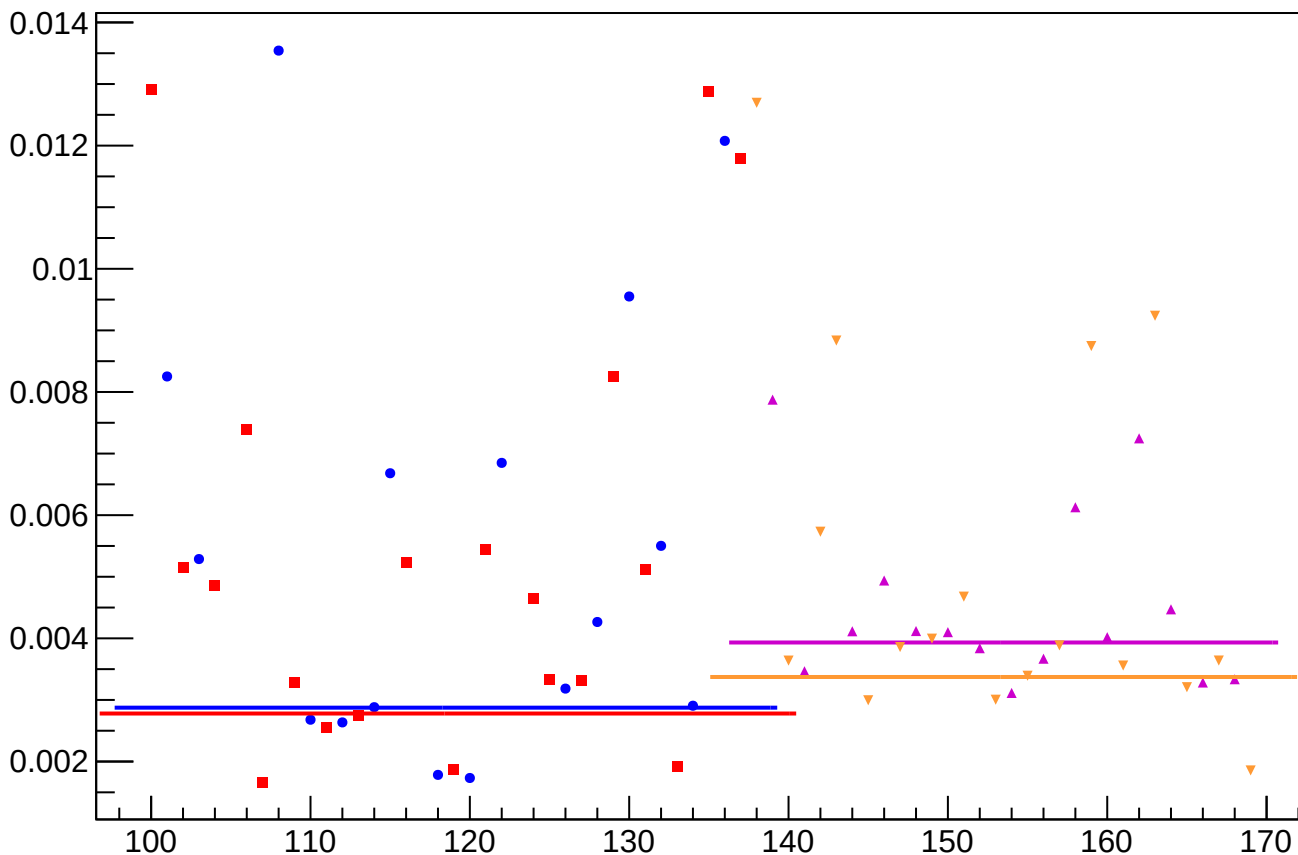
Right: -0.000+/-0.000 χ^2/NDF : 42.5/34

In: -0.000+/-0.000 χ^2/NDF : 38.3/30

Out: -0.000+/-0.000 χ^2/NDF : 42.2/35

All: -0.000+/-0.000 χ^2/NDF : 80.7/66

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 4152056.9/15

Left Out: 0.003+/-0.000

χ^2/NDF : 4251729.7/16

Right Out: 0.003+/-0.000

χ^2/NDF : 3311178.7/18

Left In: 0.004+/-0.000

χ^2/NDF : 1192787.5/14

Left: 0.004+/-0.000

χ^2/NDF : 5689770.5/31

Right: 0.003+/-0.000

χ^2/NDF : 7469105.0/34

In: 0.003+/-0.000

χ^2/NDF : 6042033.0/30

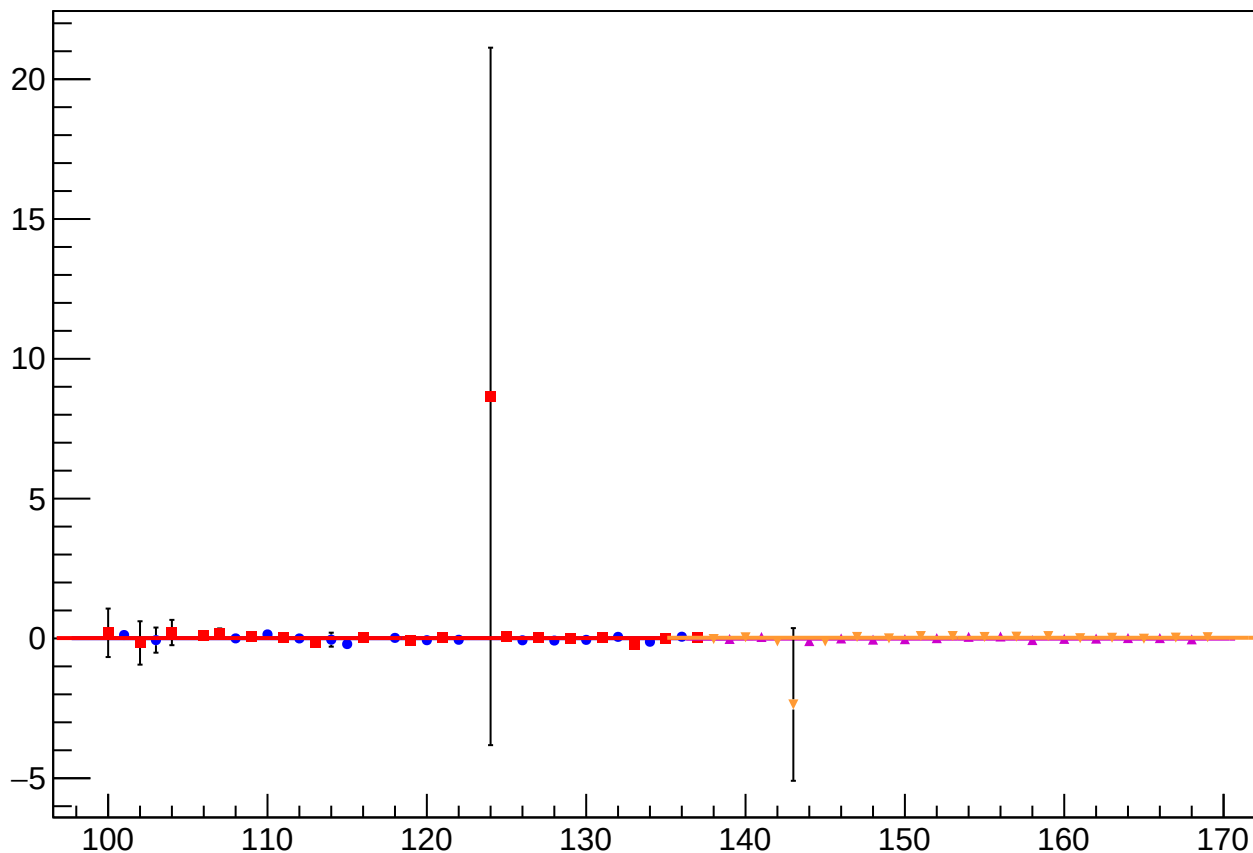
Out: 0.003+/-0.000

χ^2/NDF : 7852886.6/35

All: 0.003+/-0.000

χ^2/NDF : 14041182.0/66

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.024 $\pm$ 0.010 χ^2 /NDF:17.7/16

Right Out: 0.013 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.008 $\pm$ 0.011 χ^2 /NDF:10.7/14

Left: 0.009 $\pm$ 0.008 χ^2 /NDF: 32.9/31

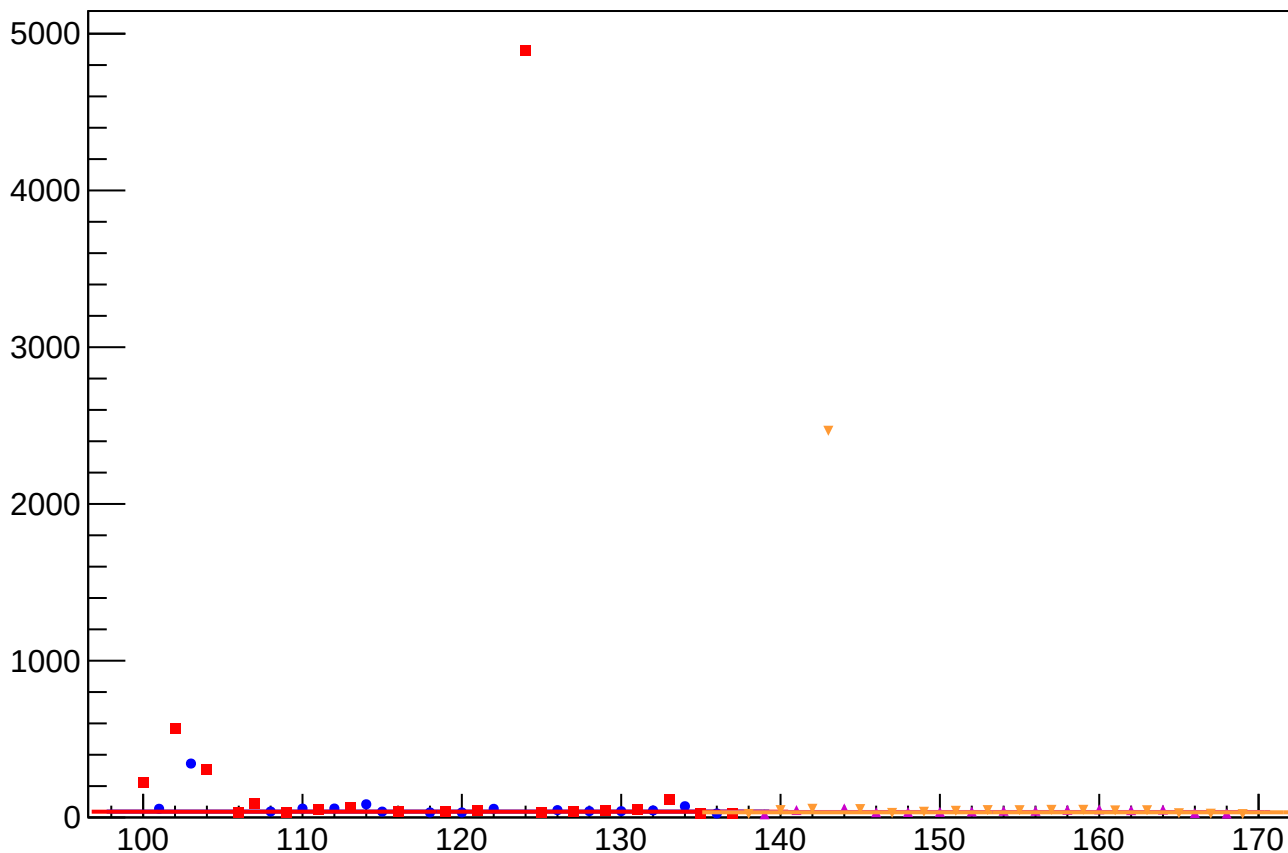
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: -0.003 $\pm$ 0.009 χ^2 /NDF:30.7/30

Out: 0.021 $\pm$ 0.009 χ^2 /NDF:30.6/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 64.8/66

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.495+/-0.011 χ^2/NDF : 1983206.3/15

Left Out: 32.845+/-0.007 χ^2/NDF : 3960620.8/16

Right Out: 36.769+/-0.012 χ^2/NDF : 3190400.7/18

Left In: 34.884+/-0.008 χ^2/NDF : 1866018.7/14

Left: 33.803+/-0.005 χ^2/NDF : 5863068.5/31

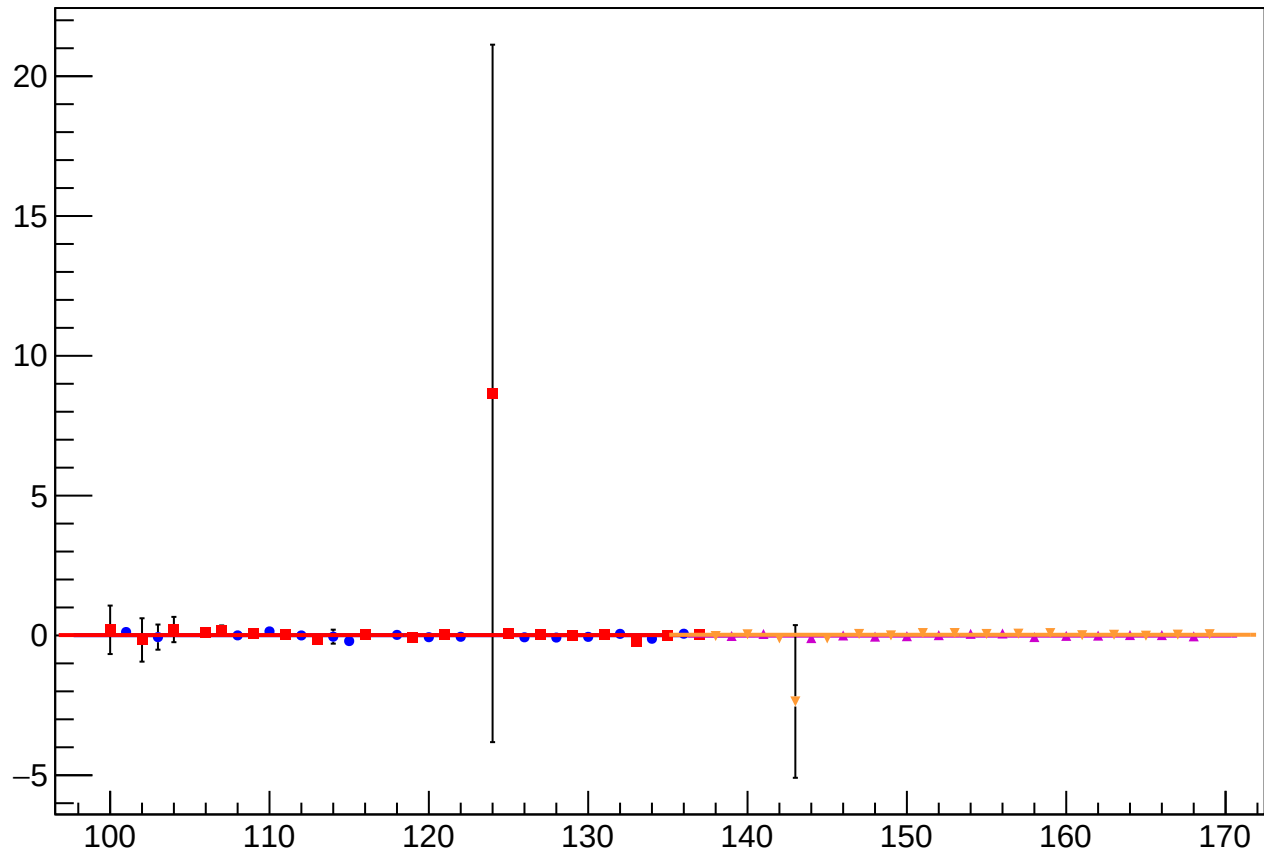
Right: 37.144+/-0.008 χ^2/NDF : 5175578.4/34

In: 35.716+/-0.006 χ^2/NDF : 3885158.5/30

Out: 33.942+/-0.006 χ^2/NDF : 7231322.3/35

All: 34.800+/-0.004 χ^2/NDF : 11155897.2/66

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.024 $\pm$ 0.010 χ^2 /NDF:17.7/16

Right Out: 0.013 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.008 $\pm$ 0.011 χ^2 /NDF:10.7/14

Left: 0.009 $\pm$ 0.008 χ^2 /NDF: 32.9/31

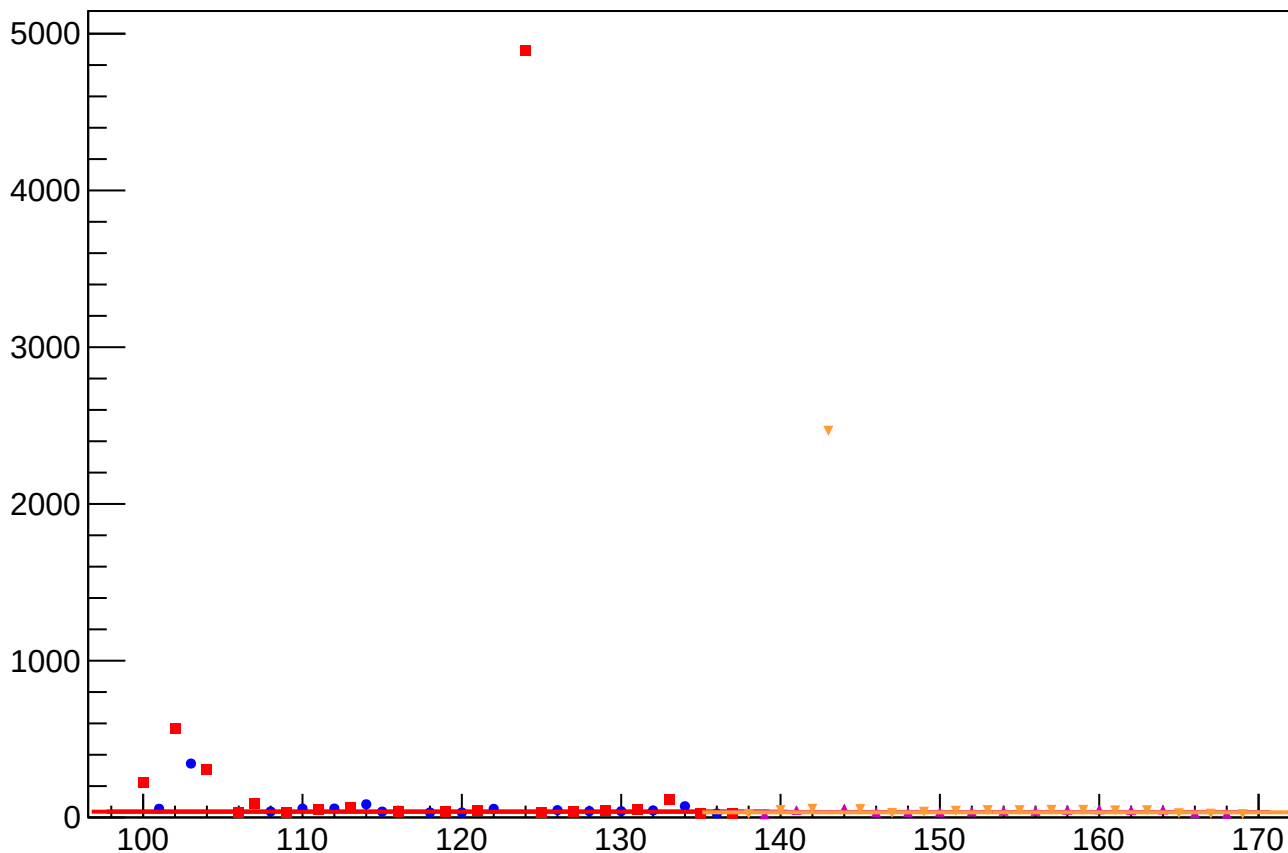
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: -0.003 $\pm$ 0.009 χ^2 /NDF:30.7/30

Out: 0.021 $\pm$ 0.009 χ^2 /NDF:30.6/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 64.8/66

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.495 $\pm$ 0.011 χ^2 /NDF: 1983206.3/15

Left Out: 32.845 $\pm$ 0.007 χ^2 /NDF: 3960620.8/16

Right Out: 36.769 $\pm$ 0.012 χ^2 /NDF: 3190400.7/18

Left In: 34.884 $\pm$ 0.008 χ^2 /NDF: 1866018.7/14

Left: 33.803 $\pm$ 0.005 χ^2 /NDF: 5863068.5/31

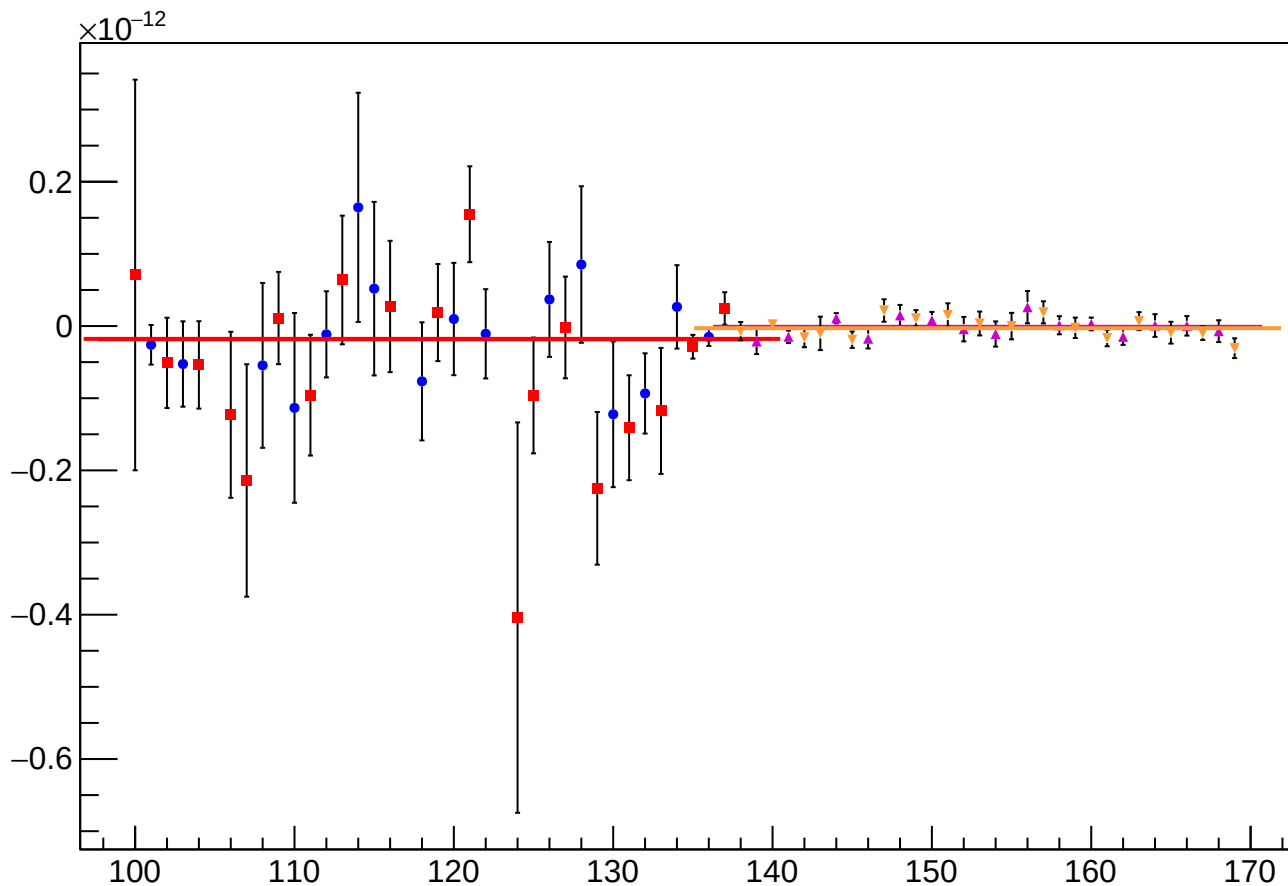
Right: 37.144 $\pm$ 0.008 χ^2 /NDF: 5175578.4/34

In: 35.716 $\pm$ 0.006 χ^2 /NDF: 3885158.5/30

Out: 33.942 $\pm$ 0.006 χ^2 /NDF: 7231322.3/35

All: 34.800 $\pm$ 0.004 χ^2 /NDF: 11155897.2/66

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 8.3/15

Left Out: -0.000+/-0.000 χ^2 /NDF:18.0/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 27.3/18

Left In: -0.000+/-0.000 χ^2 /NDF:13.8/14

Left: -0.000+/-0.000 χ^2 /NDF: 31.9/31

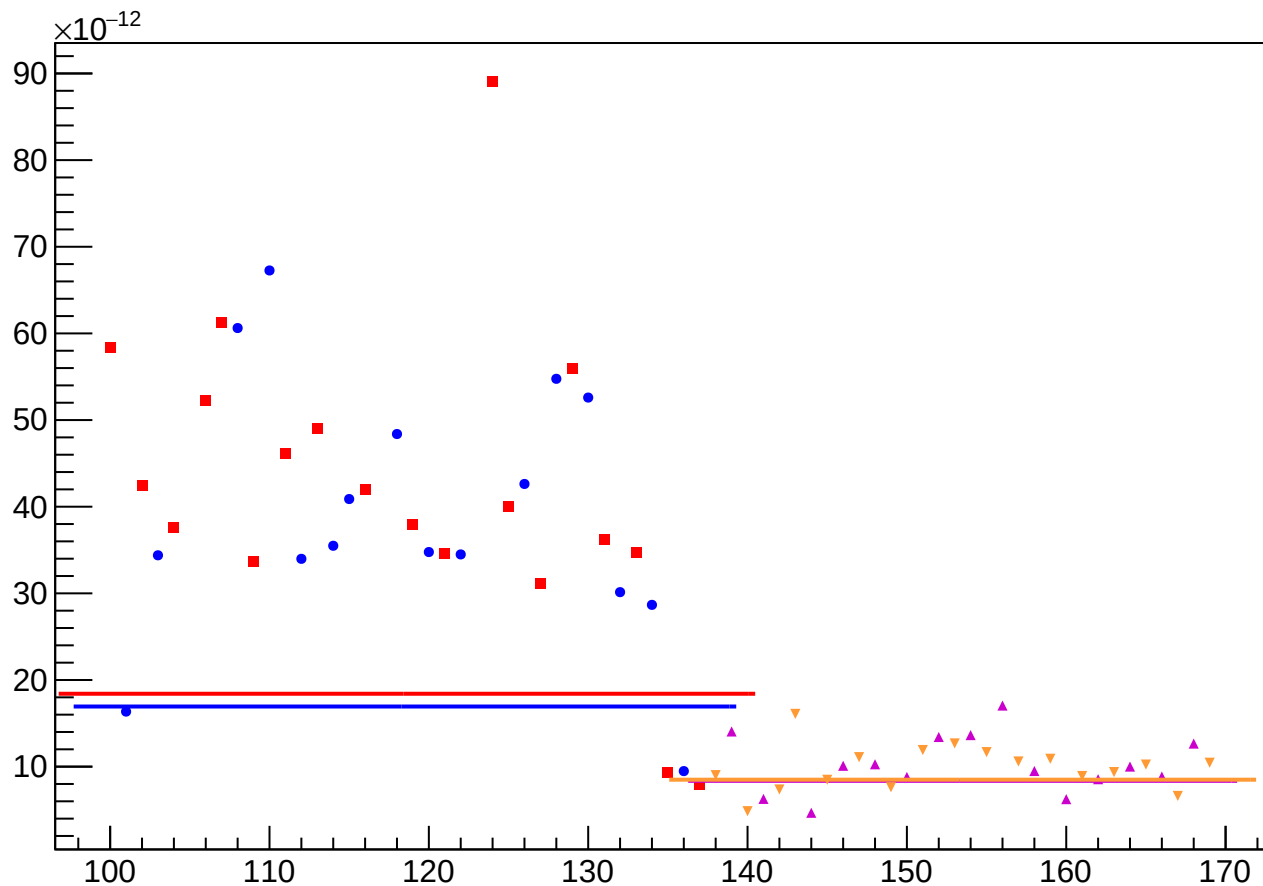
Right: -0.000+/-0.000 χ^2 /NDF: 35.6/34

In: -0.000+/-0.000 χ^2 /NDF:24.8/30

Out: -0.000+/-0.000 χ^2 /NDF:46.9/35

All: -0.000+/-0.000 χ^2 /NDF: 71.8/66

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3207856.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :1413001.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3674861.8/18

Left In: 0.000+/-0.000 χ^2/NDF :1924812.9/14

Left: 0.000+/-0.000 χ^2/NDF : 3339672.0/31

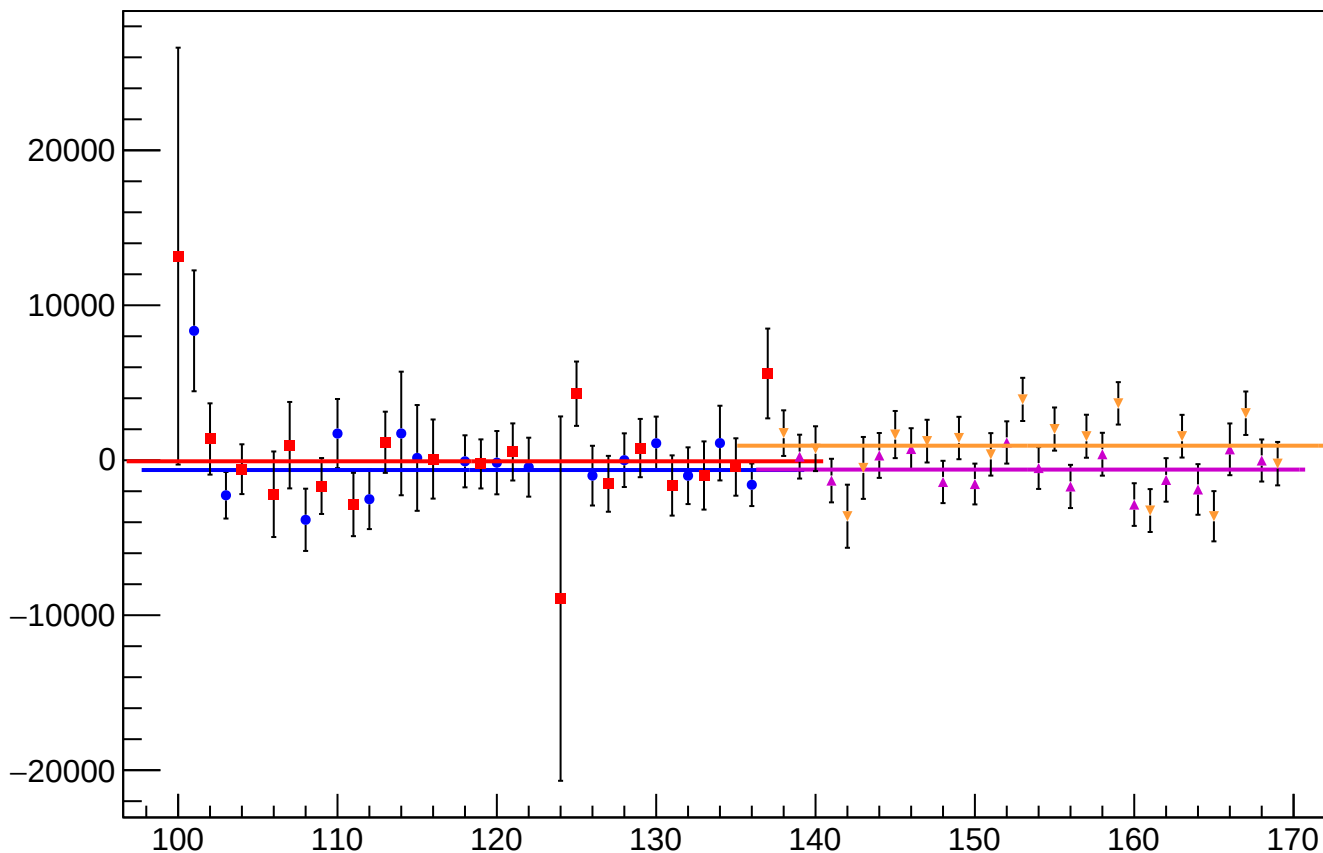
Right: 0.000+/-0.000 χ^2/NDF : 6902390.3/34

In: 0.000+/-0.000 χ^2/NDF :6496189.1/30

Out: 0.000+/-0.000 χ^2/NDF :6586362.1/35

All: 0.000+/-0.000 χ^2/NDF : 13082929.3/66

reg_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -631.041+/-488.663 χ^2/NDF : 13.9/15

Left Out: 939.060+/-353.814 χ^2/NDF : 35.9/16

Right Out: -67.642+/-487.761 χ^2/NDF : 15.9/18

Left In: -602.937+/-363.027 χ^2/NDF : 9.9/14

Left: 187.877+/-253.379 χ^2/NDF : 55.1/31

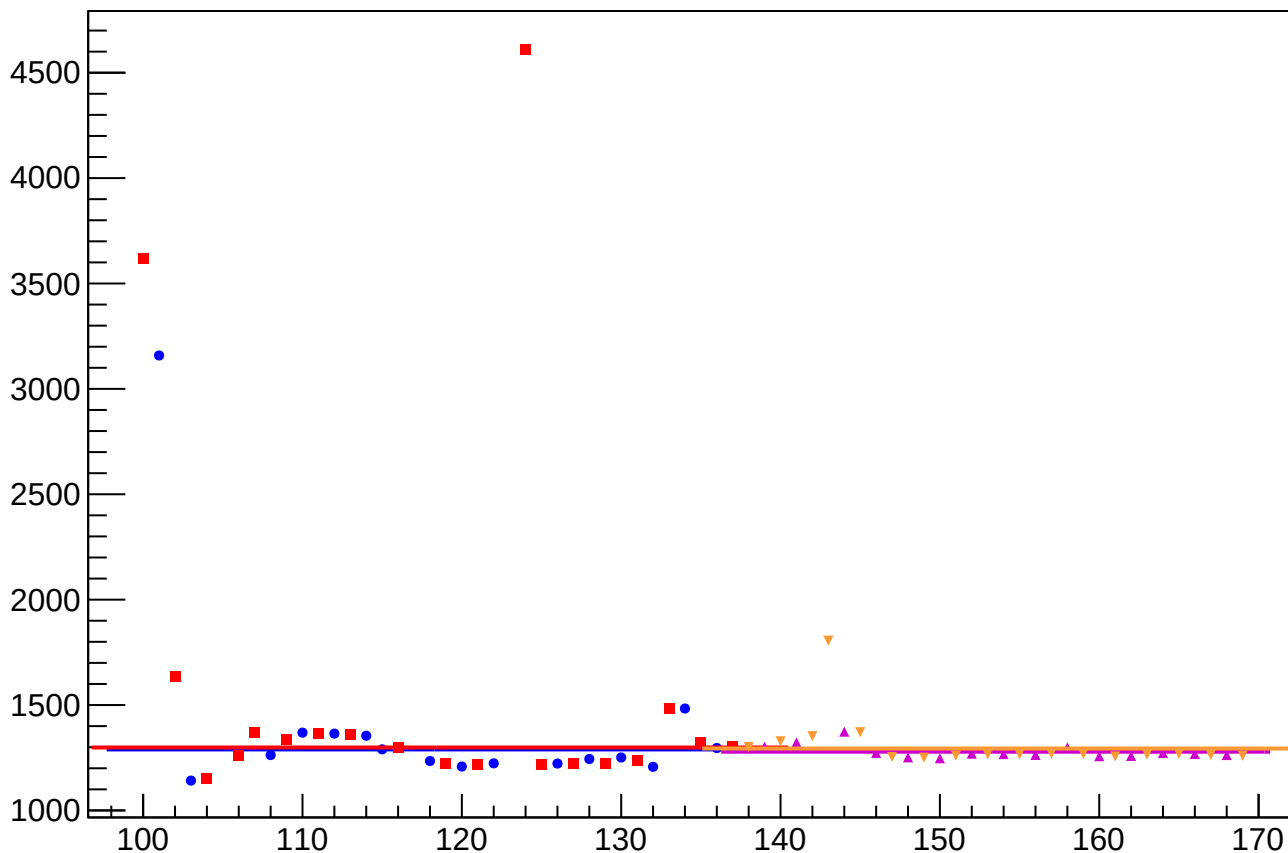
Right: -348.821+/-345.217 χ^2/NDF : 30.4/34

In: -612.932+/-291.412 χ^2/NDF : 23.8/30

Out: 591.979+/-286.399 χ^2/NDF : 54.6/35

All: -0.024+/-204.264 χ^2/NDF : 87.1/66

reg_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.346 χ^2 /NDF: 514675.0/15

Left Out: 1293.789 $\pm$ 0.250 χ^2 /NDF: 151885.4/16

Right Out: 1298.656 $\pm$ 0.344 χ^2 /NDF: 319374.9/18

Left In: 1278.611 $\pm$ 0.257 χ^2 /NDF: 15211.1/14

Left: 1286.395 $\pm$ 0.179 χ^2 /NDF: 168889.4/31

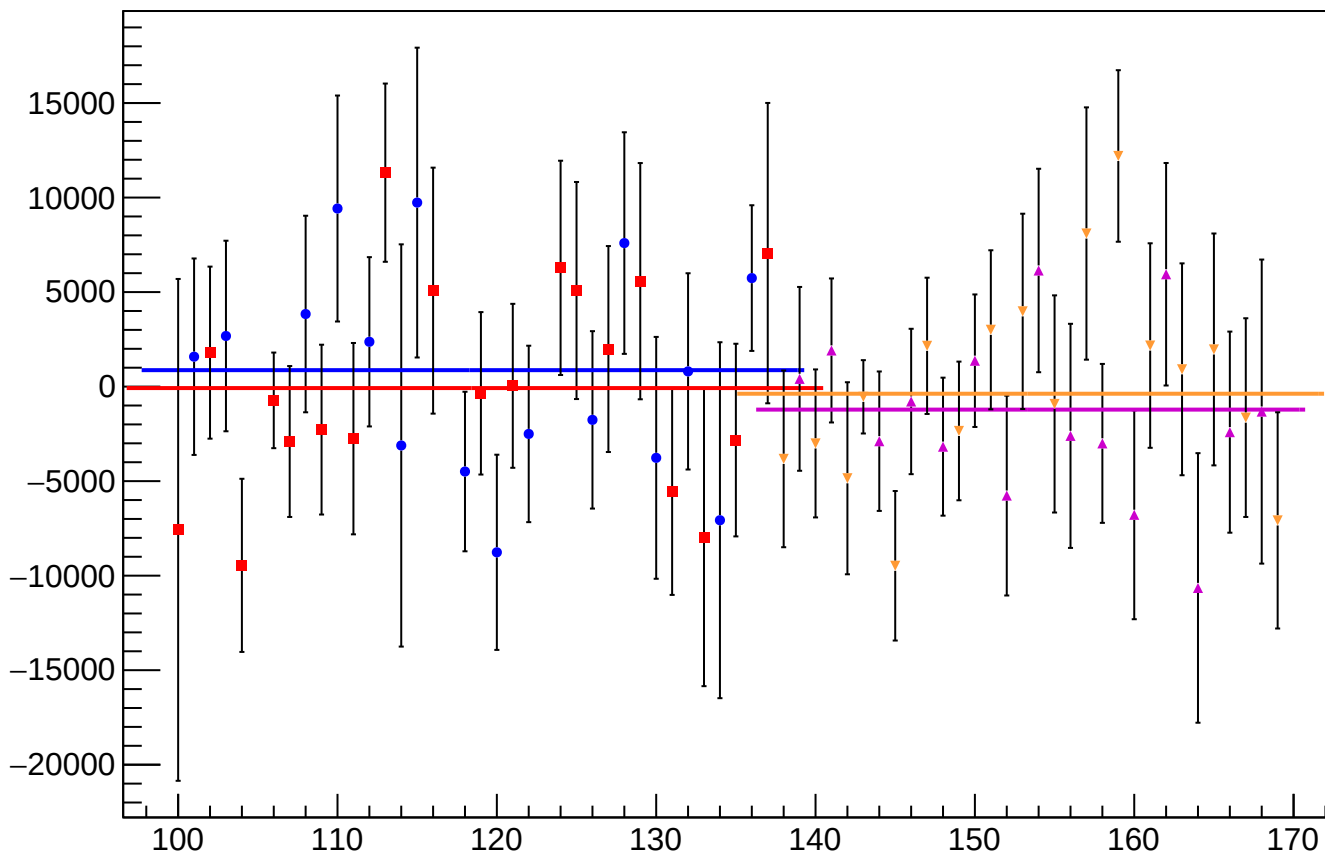
Right: 1294.081 $\pm$ 0.244 χ^2 /NDF: 834405.1/34

In: 1282.472 $\pm$ 0.206 χ^2 /NDF: 530522.1/30

Out: 1295.473 $\pm$ 0.202 χ^2 /NDF: 471391.2/35

All: 1289.091 $\pm$ 0.144 χ^2 /NDF: 1003940.0/60

asym_at1_avg_at2_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 870.295 $\pm$ 1325.278 χ^2 /NDF: 14.0/15

Left Out: -376.488 $\pm$ 1007.264 χ^2 /NDF:20.4/16

Right Out: -77.323 $\pm$ 1111.074 χ^2 /NDF: 18.4/18

Left In: -1216.556 $\pm$ 1198.349 χ^2 /NDF:9.0/14

Left: -724.284 $\pm$ 771.061 χ^2 /NDF: 29.6/31

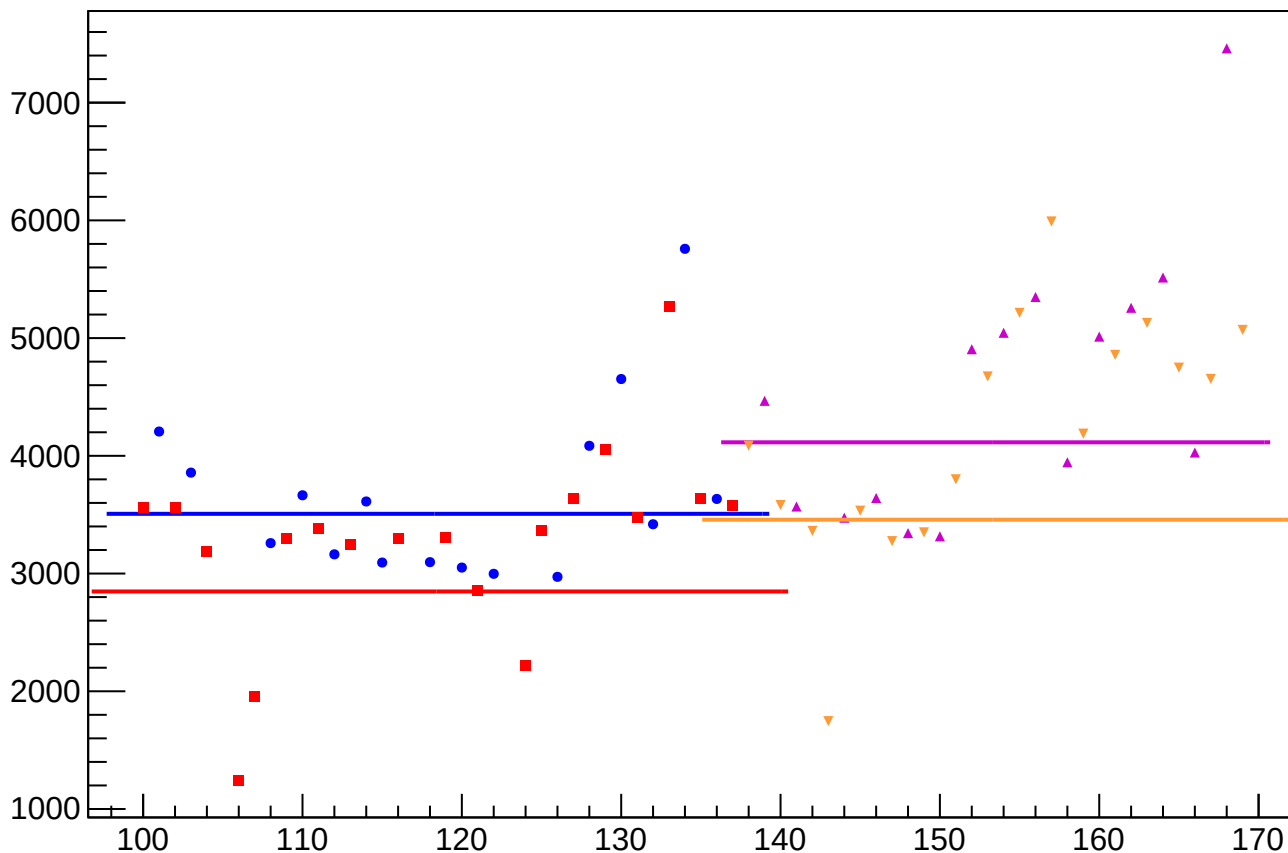
Right: 313.810 $\pm$ 851.438 χ^2 /NDF: 32.7/34

In: -277.826 $\pm$ 888.856 χ^2 /NDF:24.4/30

Out: -241.531 $\pm$ 746.252 χ^2 /NDF:38.8/35

All: -256.537 $\pm$ 571.531 χ^2 /NDF: 63.2/66

asym_at1_avg_at2_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3507.397 $\pm$ 0.937 χ^2 /NDF: 353979.1/15

Left Out: 3457.353 $\pm$ 0.712 χ^2 /NDF: 2918517.7/16

Right Out: 2847.833 $\pm$ 0.786 χ^2 /NDF: 1499373.6/18

Left In: 4114.845 $\pm$ 0.847 χ^2 /NDF: 1081883.1/14

Left: 3729.561 $\pm$ 0.545 χ^2 /NDF: 4353205.5/31

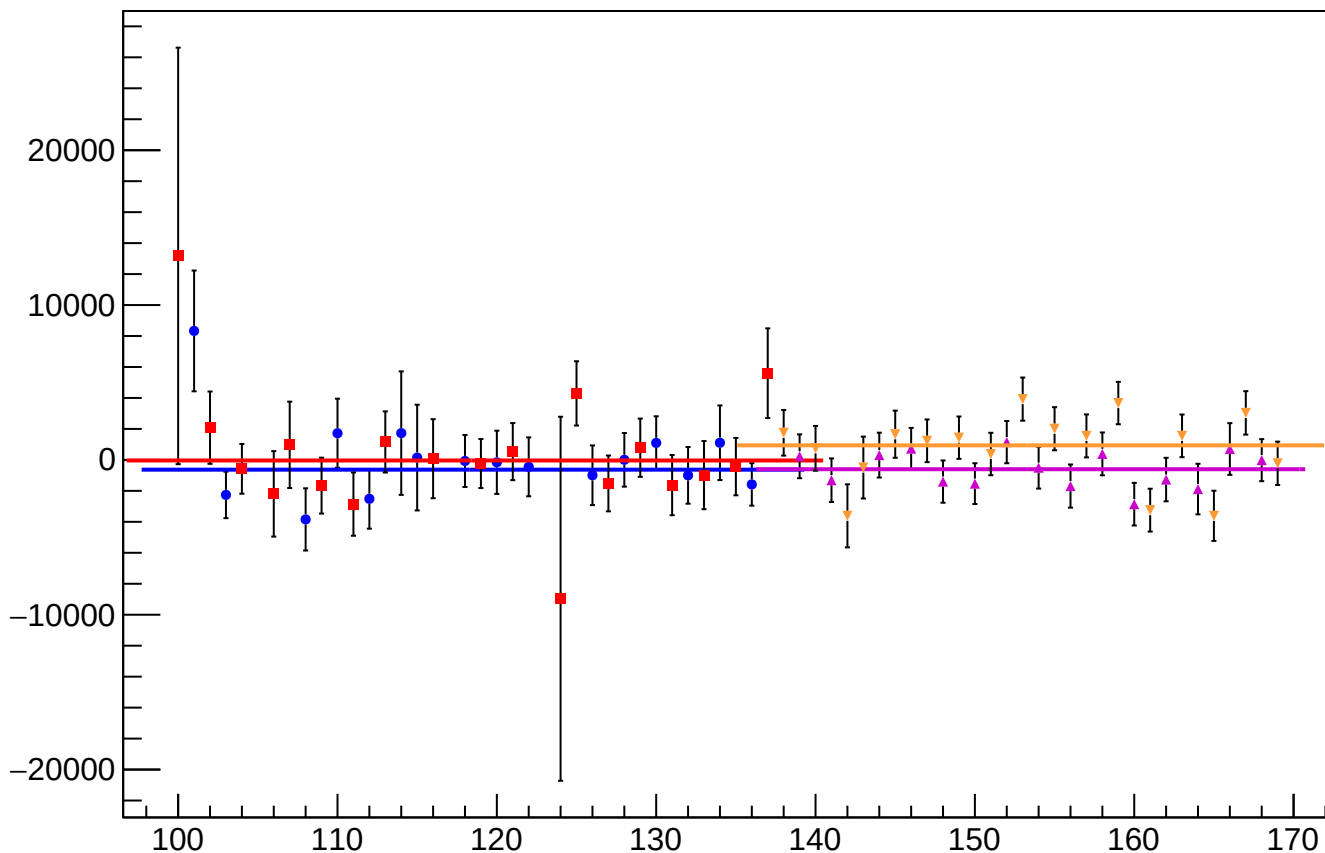
Right: 3120.071 $\pm$ 0.602 χ^2 /NDF: 2144256.9/34

In: 3841.596 $\pm$ 0.629 χ^2 /NDF: 1667031.3/30

Out: 3182.391 $\pm$ 0.528 χ^2 /NDF: 4748263.4/35

All: 3454.935 $\pm$ 0.404 χ^2 /NDF: 7060528.9/66

cor_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 939.089+/-353.814 χ^2/NDF : 35.9/16

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -602.935+/-363.027 χ^2/NDF : 9.9/14

Left: 187.893+/-253.379 χ^2/NDF : 55.1/31

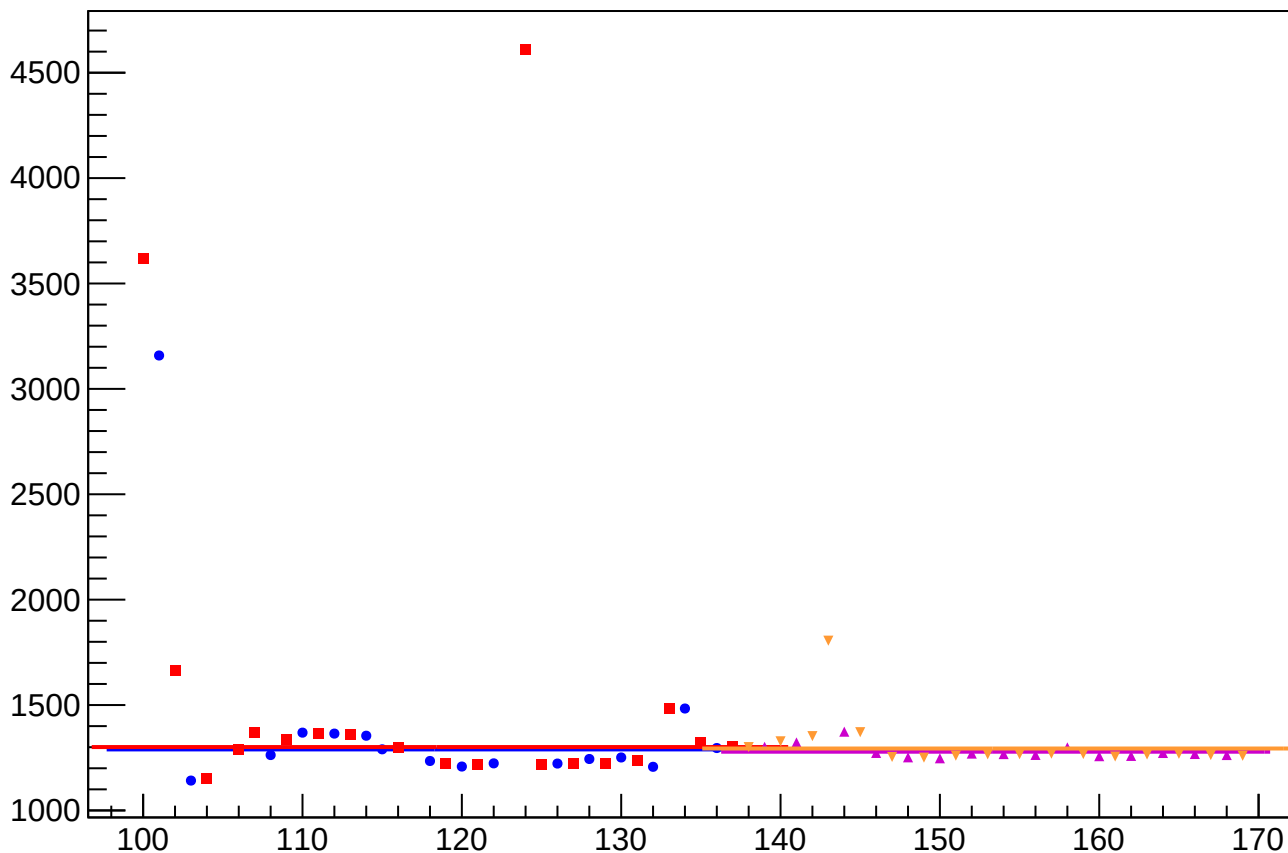
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -613.067+/-291.412 χ^2/NDF : 23.8/30

Out: 602.296+/-286.465 χ^2/NDF : 54.9/35

All: 5.019+/-204.288 χ^2/NDF : 87.5/66

cor_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.346 χ^2 /NDF: 514676.5/15

Left Out: 1293.789 $\pm$ 0.250 χ^2 /NDF: 151885.4/16

Right Out: 1300.684 $\pm$ 0.344 χ^2 /NDF: 325907.6/18

Left In: 1278.611 $\pm$ 0.257 χ^2 /NDF: 15211.1/14

Left: 1286.395 $\pm$ 0.179 χ^2 /NDF: 168889.4/31

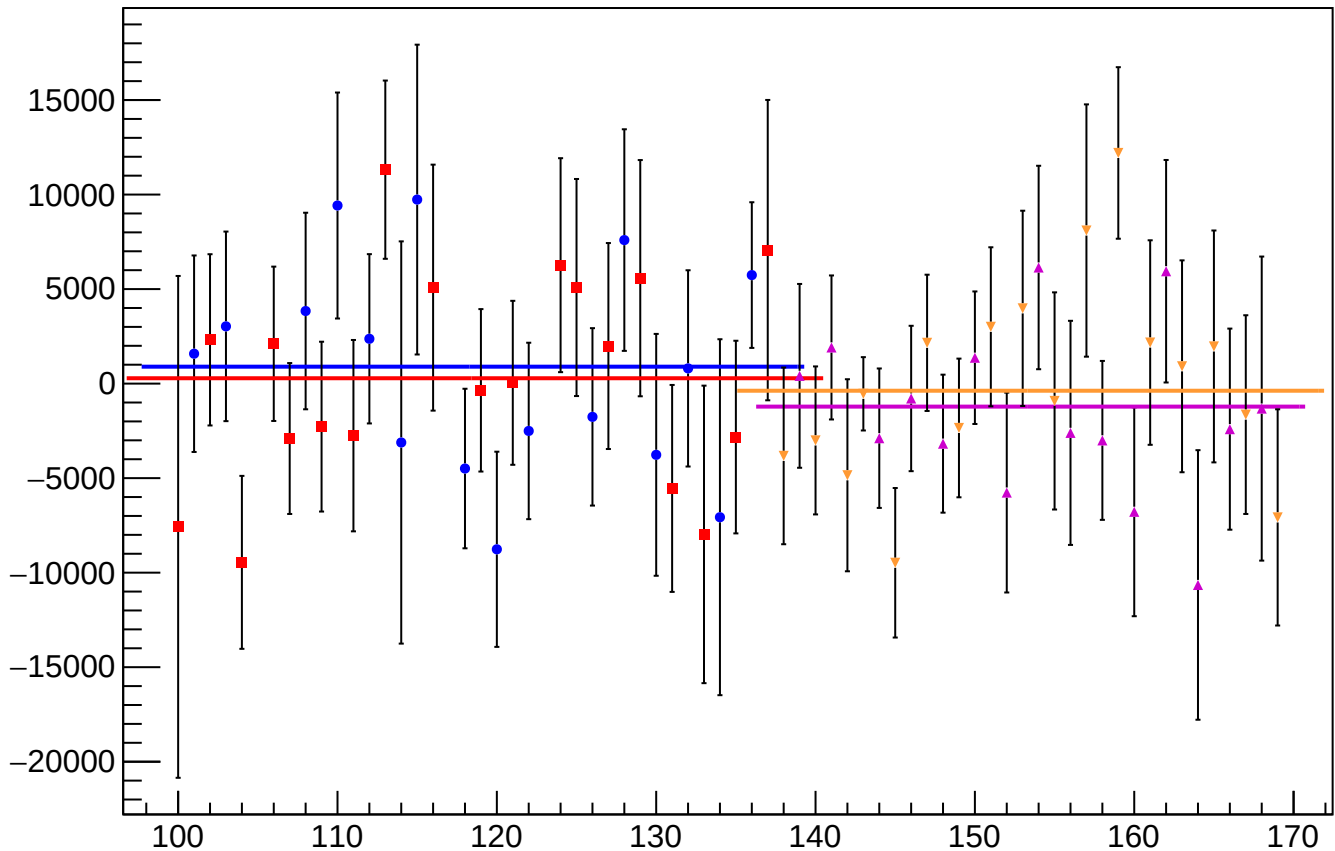
Right: 1295.092 $\pm$ 0.244 χ^2 /NDF: 841112.8/34

In: 1282.472 $\pm$ 0.206 χ^2 /NDF: 530523.5/30

Out: 1296.170 $\pm$ 0.202 χ^2 /NDF: 478055.3/35

All: 1289.442 $\pm$ 0.144 χ^2 /NDF: 1010827.7/66

asym_at1_avg_at2_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 $\pm$ 1324.823 χ^2 /NDF: 14.1/15

Left Out: -376.389 $\pm$ 1007.262 χ^2 /NDF:20.4/16

Right Out: 283.963 $\pm$ 1183.171 χ^2 /NDF: 18.6/18

Left In: -1216.598 $\pm$ 1198.348 χ^2 /NDF:9.0/14

Left: -724.243 $\pm$ 771.060 χ^2 /NDF: 29.6/31

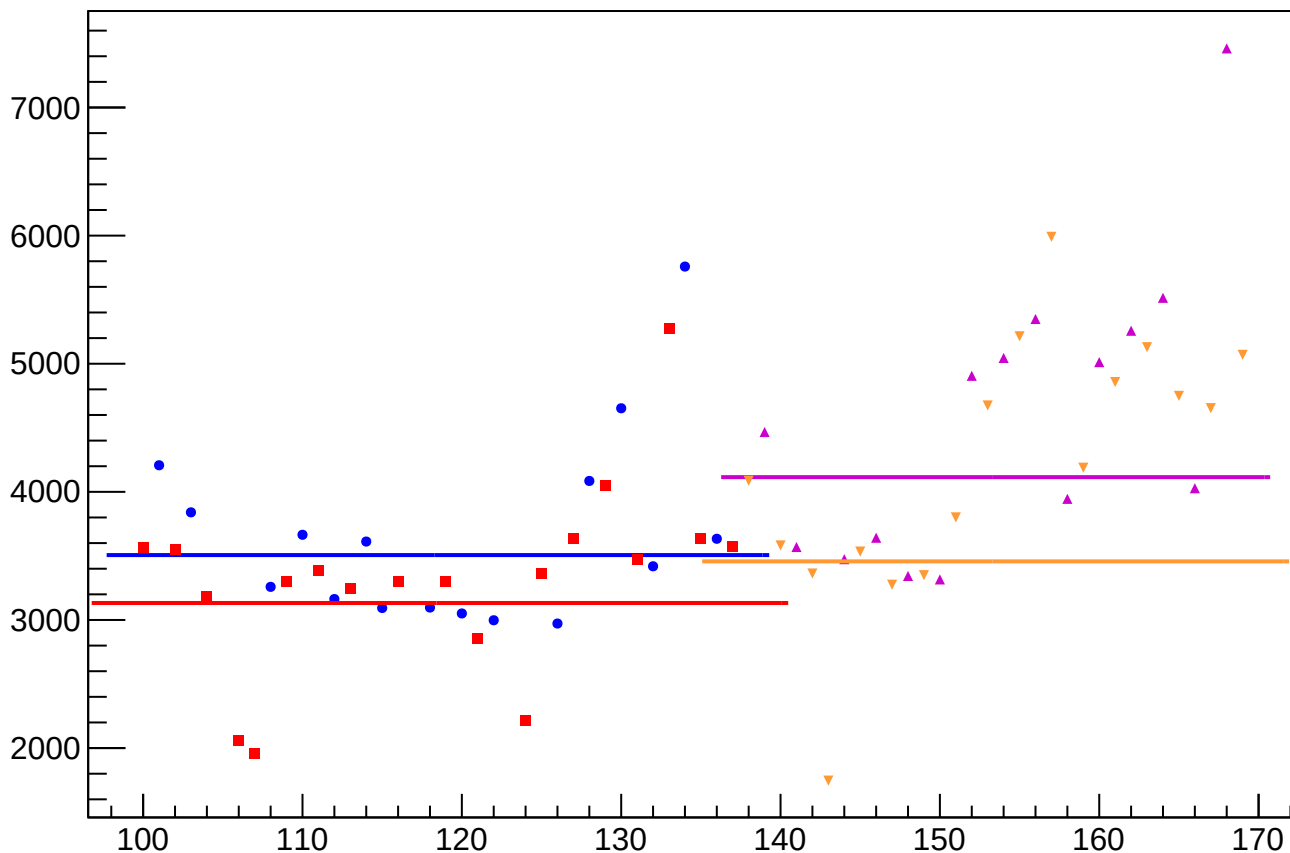
Right: 555.531 $\pm$ 882.475 χ^2 /NDF: 32.8/34

In: -265.921 $\pm$ 888.719 χ^2 /NDF:24.5/30

Out: -98.905 $\pm$ 766.971 χ^2 /NDF:39.2/35

All: -170.198 $\pm$ 580.642 χ^2 /NDF: 63.7/66

asym_at1_avg_at2_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484 $\pm$ 0.937 χ^2 /NDF: 353237.7/15

Left Out: 3457.343 $\pm$ 0.712 χ^2 /NDF: 2918548.6/16

Right Out: 3132.586 $\pm$ 0.837 χ^2 /NDF: 649611.1/18

Left In: 4114.841 $\pm$ 0.847 χ^2 /NDF: 1081884.2/14

Left: 3729.553 $\pm$ 0.545 χ^2 /NDF: 4353244.4/31

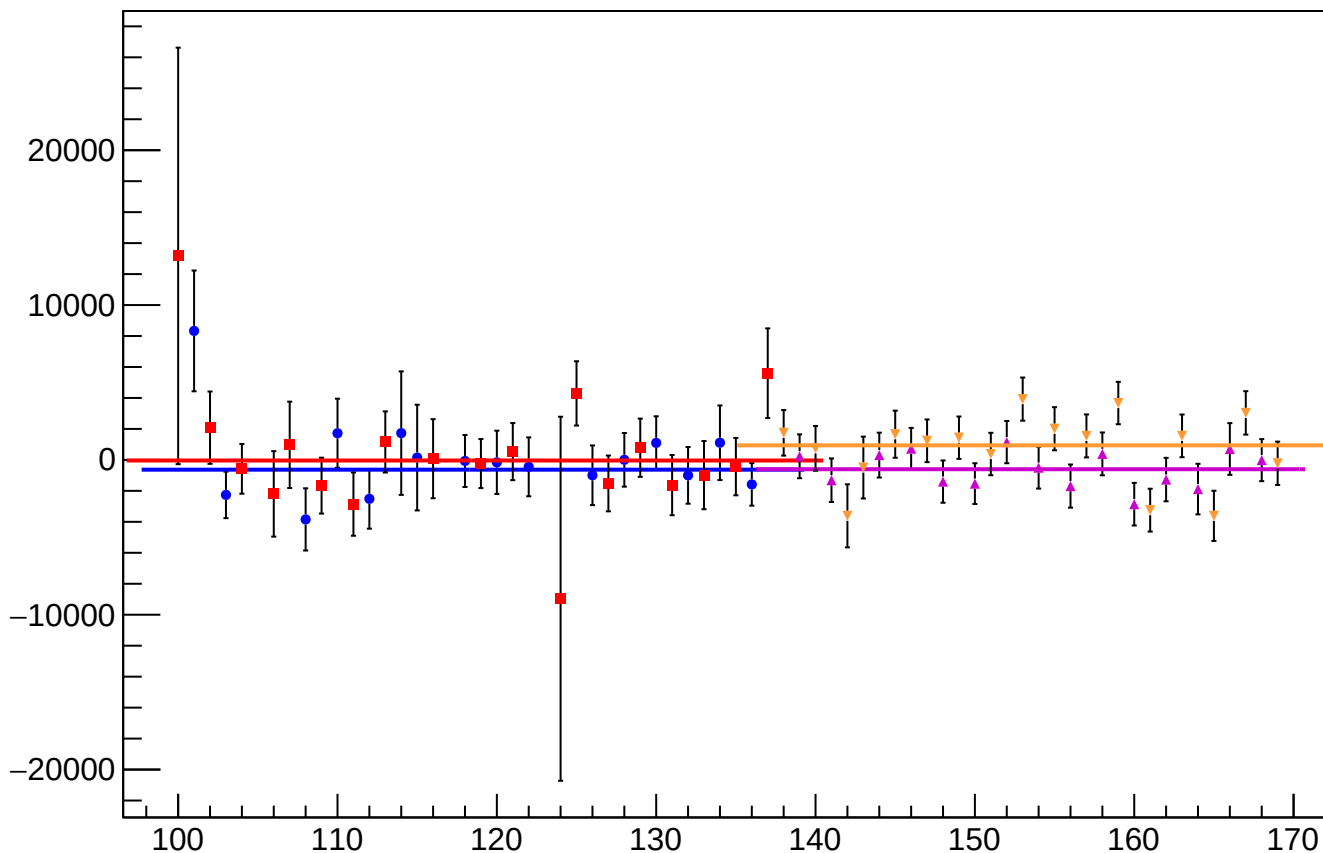
Right: 3298.485 $\pm$ 0.624 χ^2 /NDF: 1091468.2/34

In: 3841.080 $\pm$ 0.628 χ^2 /NDF: 1667071.2/30

Out: 3320.878 $\pm$ 0.542 χ^2 /NDF: 3655522.0/35

All: 3542.933 $\pm$ 0.411 χ^2 /NDF: 5715331.9/66

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 939.089+/-353.814 χ^2/NDF : 35.9/16

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -602.935+/-363.027 χ^2/NDF : 9.9/14

Left: 187.893+/-253.379 χ^2/NDF : 55.1/31

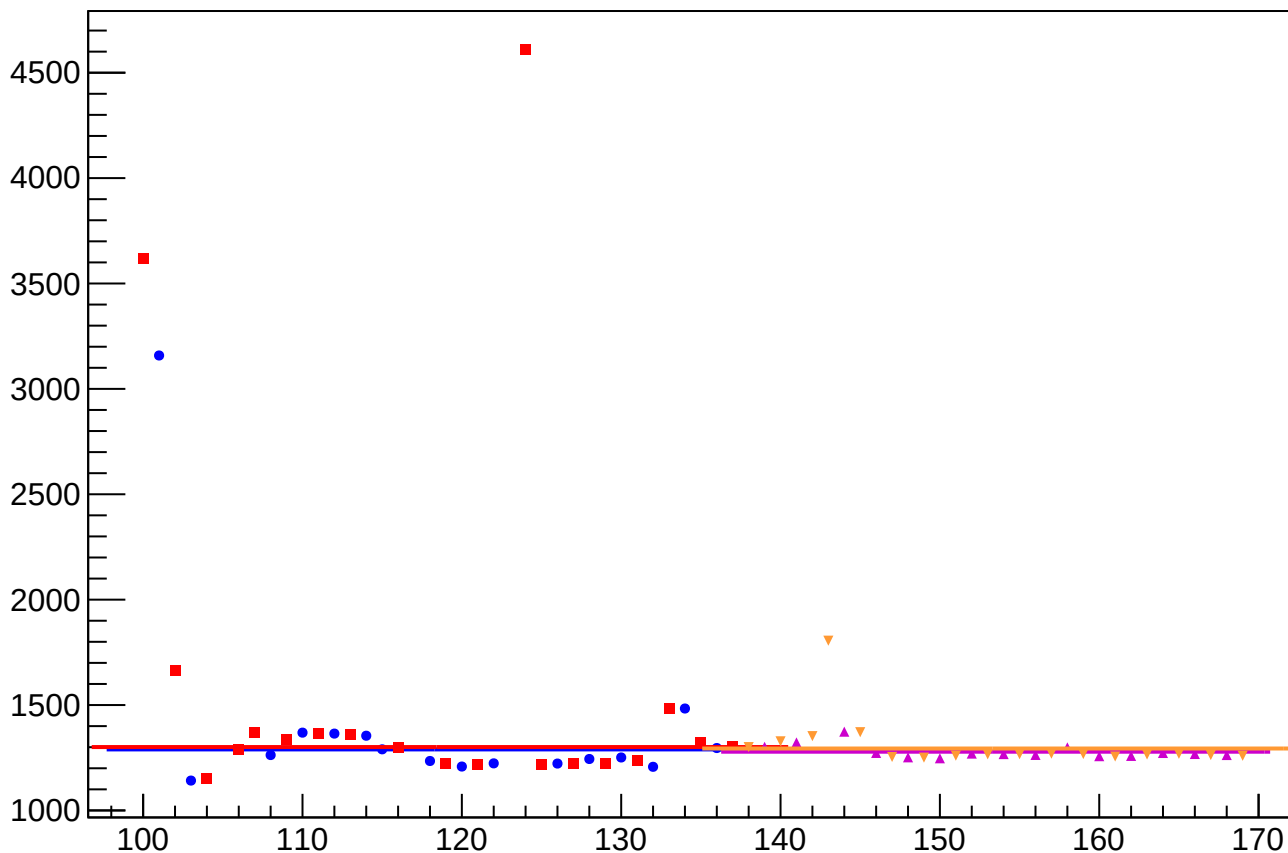
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -613.067+/-291.412 χ^2/NDF : 23.8/30

Out: 602.296+/-286.465 χ^2/NDF : 54.9/35

All: 5.019+/-204.288 χ^2/NDF : 87.5/66

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.346 χ^2 /NDF: 514676.5/15

Left Out: 1293.789 $\pm$ 0.250 χ^2 /NDF:151885.4/16

Right Out: 1300.684 $\pm$ 0.344 χ^2 /NDF: 325907.6/18

Left In: 1278.611 $\pm$ 0.257 χ^2 /NDF:15211.1/14

Left: 1286.395 $\pm$ 0.179 χ^2 /NDF: 168889.4/31

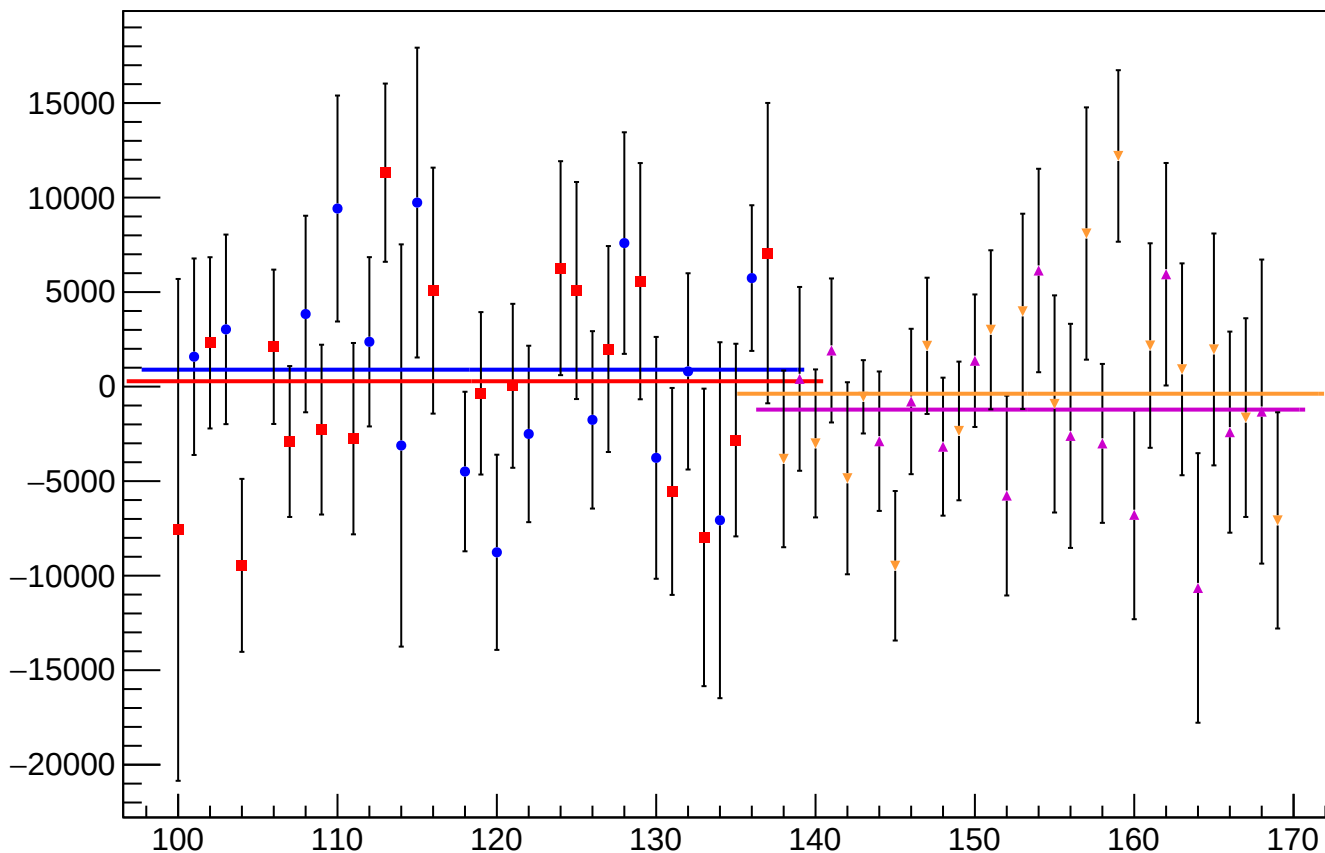
Right: 1295.092 $\pm$ 0.244 χ^2 /NDF: 841112.8/34

In: 1282.472 $\pm$ 0.206 χ^2 /NDF:530523.5/30

Out: 1296.170 $\pm$ 0.202 χ^2 /NDF:478055.3/35

All: 1289.442 $\pm$ 0.144 χ^2 /NDF: 1010827.7/66

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017+/-1324.823 χ^2/NDF : 14.1/15

Left Out: -376.389+/-1007.262 χ^2/NDF :20.4/16

Right Out: 283.963+/-1183.171 χ^2/NDF : 18.6/18

Left In: -1216.598+/-1198.348 χ^2/NDF :9.0/14

Left: -724.243+/-771.060 χ^2/NDF : 29.6/31

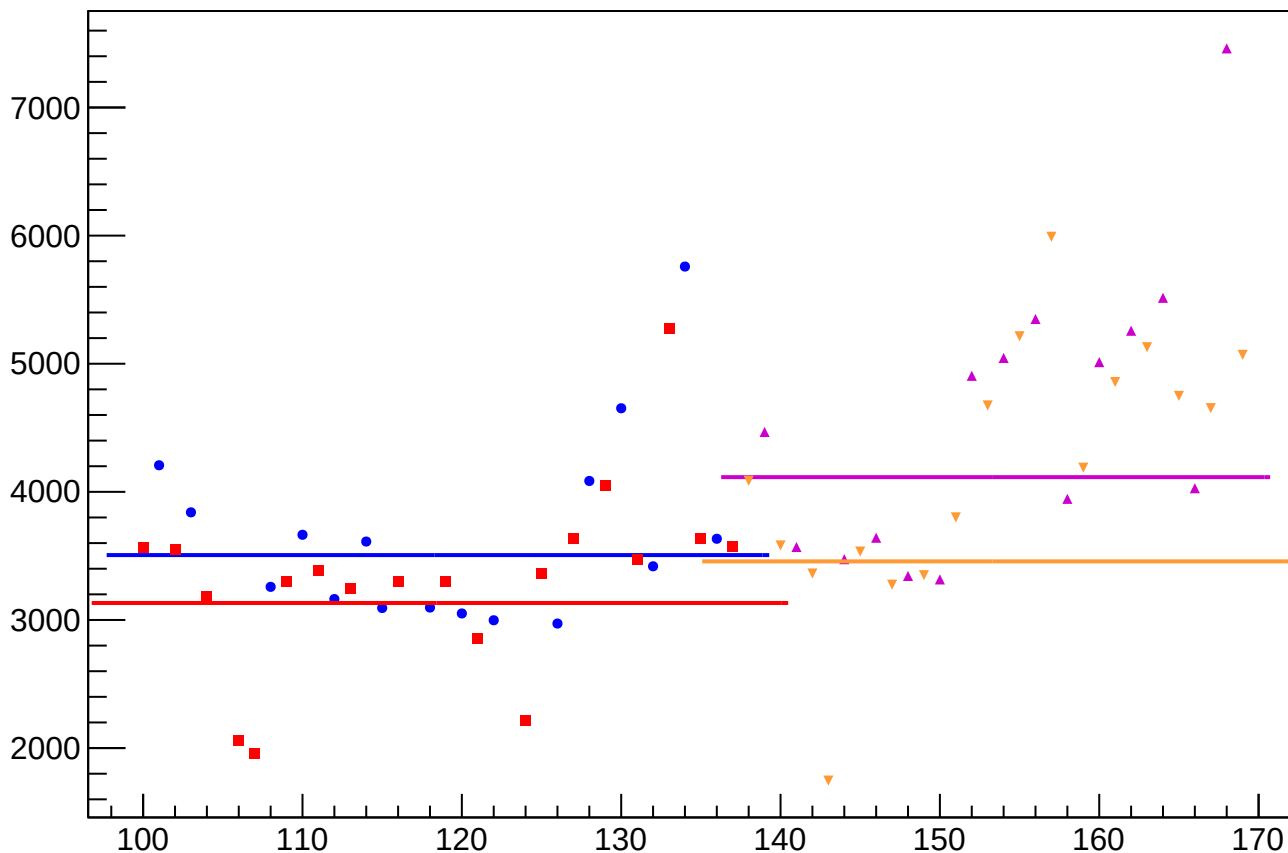
Right: 555.531+/-882.475 χ^2/NDF : 32.8/34

In: -265.921+/-888.719 χ^2/NDF :24.5/30

Out: -98.905+/-766.971 χ^2/NDF :39.2/35

All: -170.198+/-580.642 χ^2/NDF : 63.7/66

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484 ± 0.937 $\chi^2/\text{NDF}: 353237.7/15$

Left Out: 3457.343 ± 0.712 $\chi^2/\text{NDF}: 2918548.6/16$

Right Out: 3132.586 ± 0.837 $\chi^2/\text{NDF}: 649611.1/18$

Left In: 4114.841 ± 0.847 $\chi^2/\text{NDF}: 1081884.2/14$

Left: 3729.553 ± 0.545 $\chi^2/\text{NDF}: 4353244.4/31$

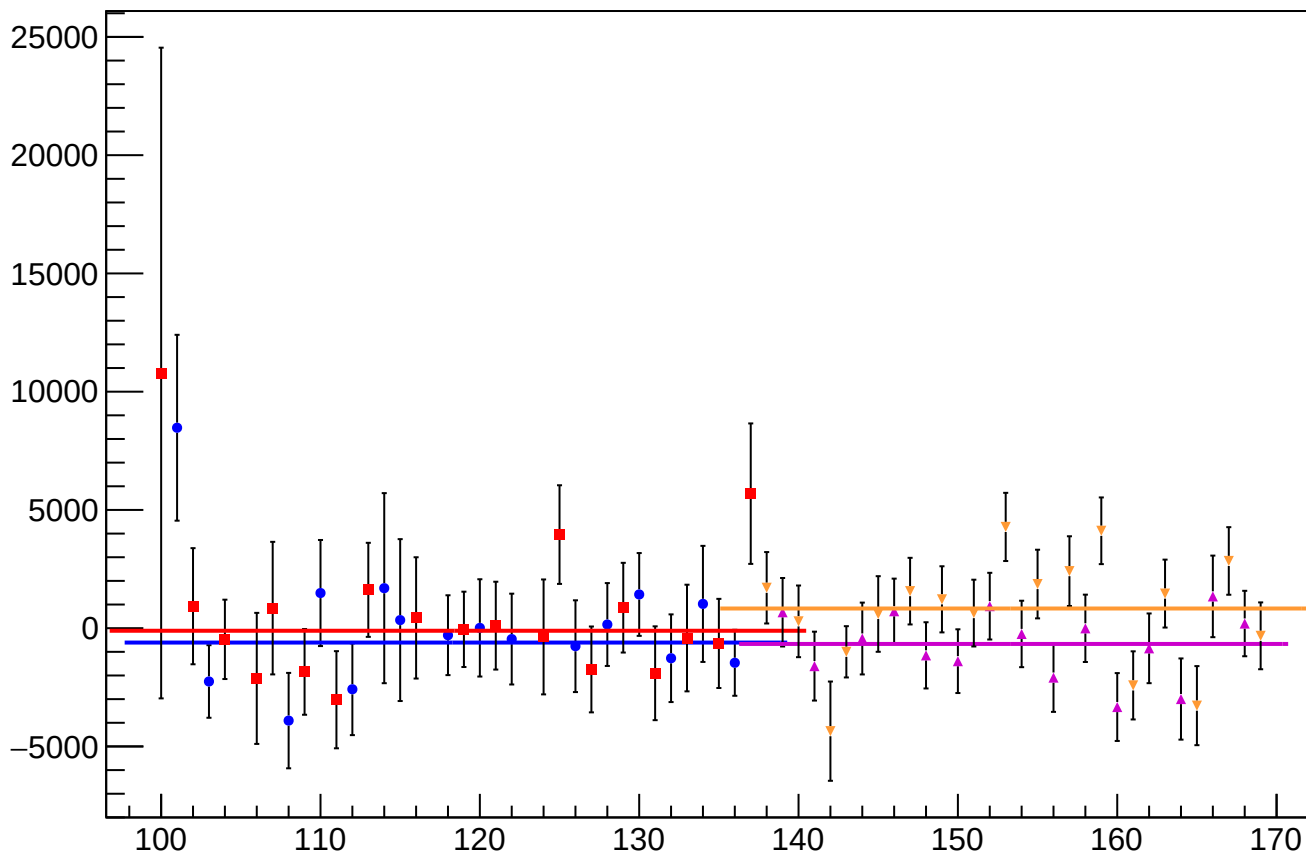
Right: 3298.485 ± 0.624 $\chi^2/\text{NDF}: 1091468.2/34$

In: 3841.080 ± 0.628 $\chi^2/\text{NDF}: 1667071.2/30$

Out: 3320.878 ± 0.542 $\chi^2/\text{NDF}: 3655522.0/35$

All: 3542.933 ± 0.411 $\chi^2/\text{NDF}: 5715331.9/66$

dit_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -607.831 $\pm$ 494.182 χ^2 /NDF: 14.1/15

Left Out: 832.149 $\pm$ 351.448 χ^2 /NDF:36.6/16

Right Out: -108.614 $\pm$ 485.552 χ^2 /NDF: 14.9/18

Left In: -666.444 $\pm$ 375.492 χ^2 /NDF:12.3/14

Left: 132.367 $\pm$ 256.591 χ^2 /NDF: 57.4/31

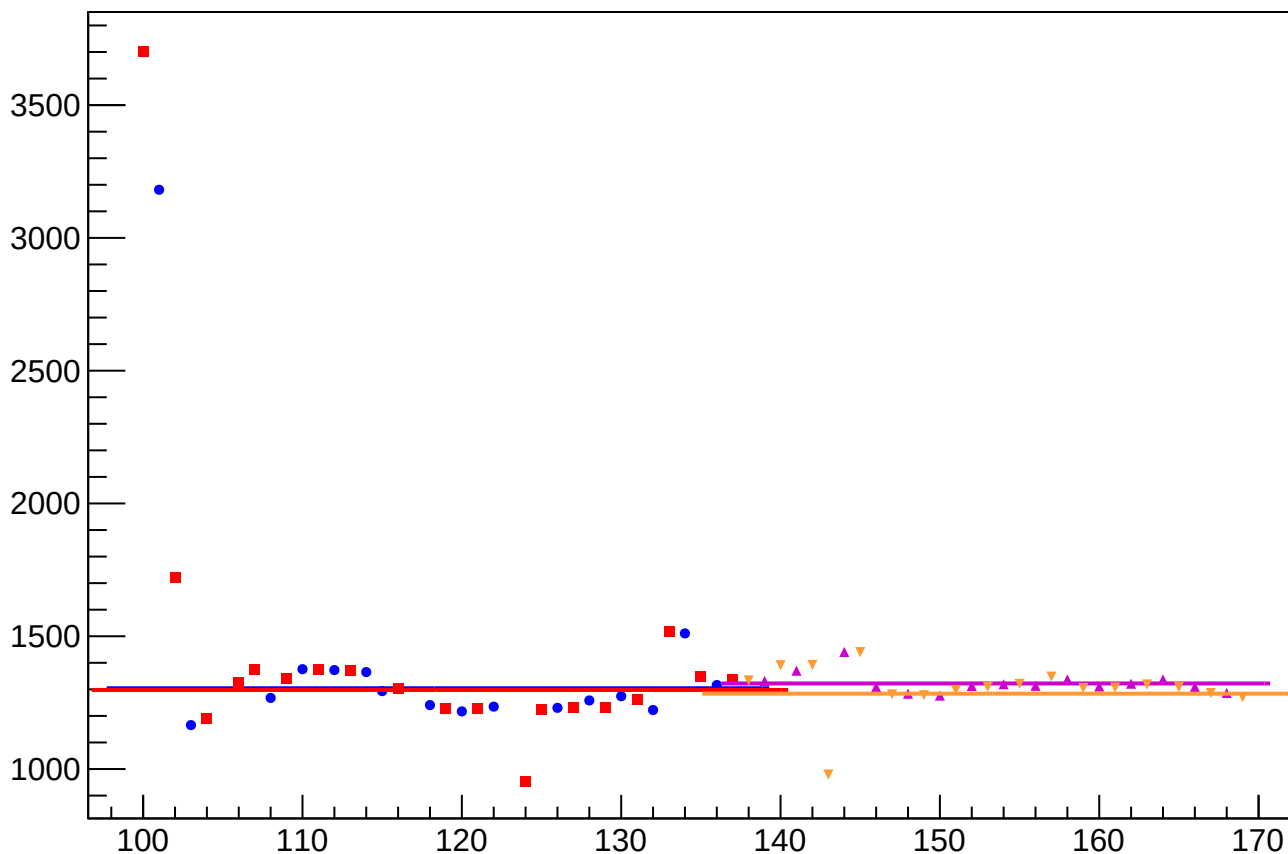
Right: -353.826 $\pm$ 346.348 χ^2 /NDF: 29.5/34

In: -644.990 $\pm$ 298.978 χ^2 /NDF:26.4/30

Out: 508.725 $\pm$ 284.697 χ^2 /NDF:53.9/35

All: -39.921 $\pm$ 206.175 χ^2 /NDF: 88.2/66

dit_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1304.102 $\pm$ 0.349 χ^2 /NDF: 510589.4/15

Left Out: 1283.747 $\pm$ 0.249 χ^2 /NDF: 203238.3/16

Right Out: 1297.796 $\pm$ 0.343 χ^2 /NDF: 213096.9/18

Left In: 1322.253 $\pm$ 0.266 χ^2 /NDF: 20620.9/14

Left: 1301.728 $\pm$ 0.181 χ^2 /NDF: 235070.5/31

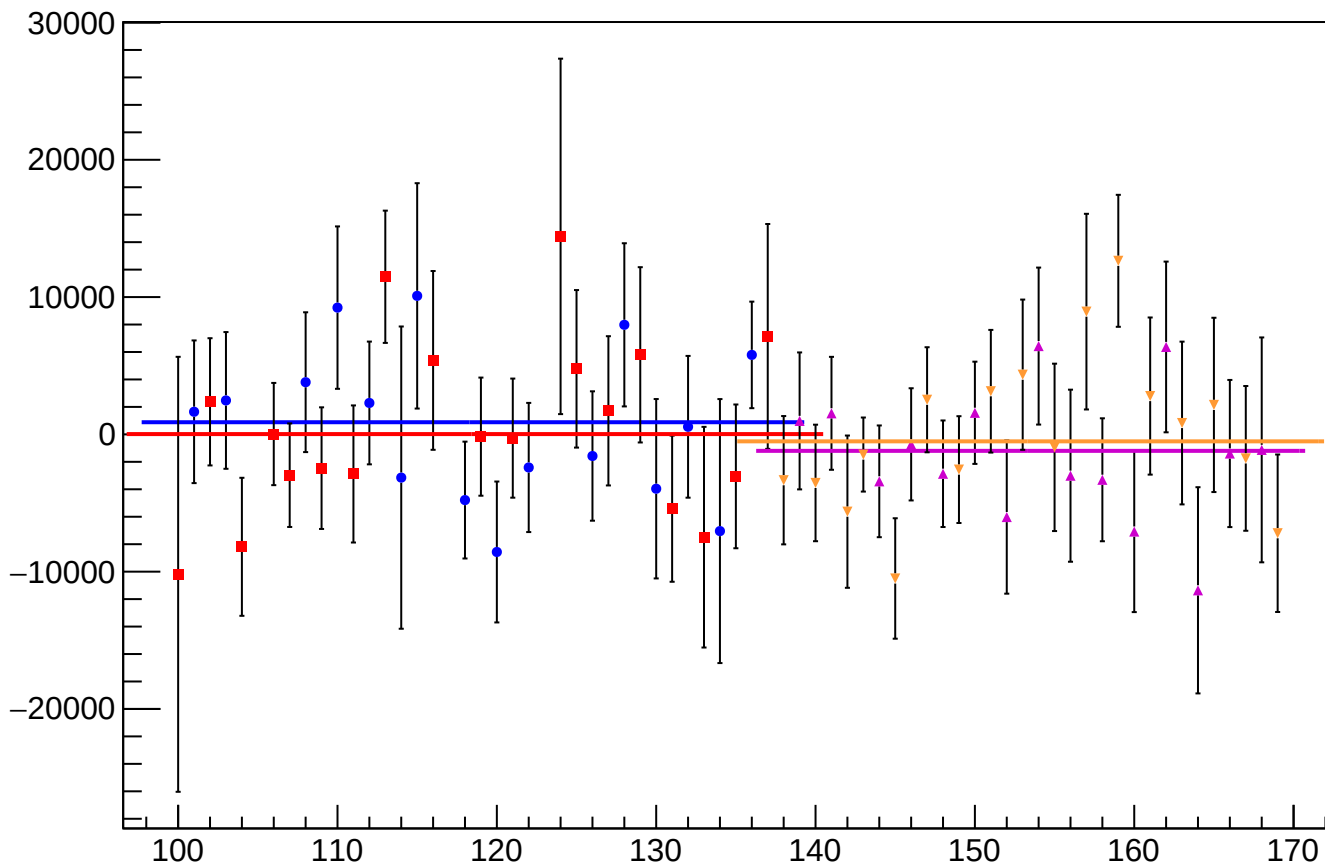
Right: 1300.891 $\pm$ 0.245 χ^2 /NDF: 723852.1/34

In: 1315.609 $\pm$ 0.211 χ^2 /NDF: 532920.8/30

Out: 1288.581 $\pm$ 0.201 χ^2 /NDF: 417435.1/35

All: 1301.431 $\pm$ 0.146 χ^2 /NDF: 958930.1/66

asym_at1_avg_at2_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.058 ± 1327.399 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -508.088 ± 1131.417 $\chi^2/\text{NDF}: 20.6/16$

Right Out: 20.681 ± 1200.015 $\chi^2/\text{NDF}: 16.8/18$

Left In: -1201.301 ± 1271.509 $\chi^2/\text{NDF}: 8.8/14$

Left: -814.417 ± 845.240 $\chi^2/\text{NDF}: 29.6/31$

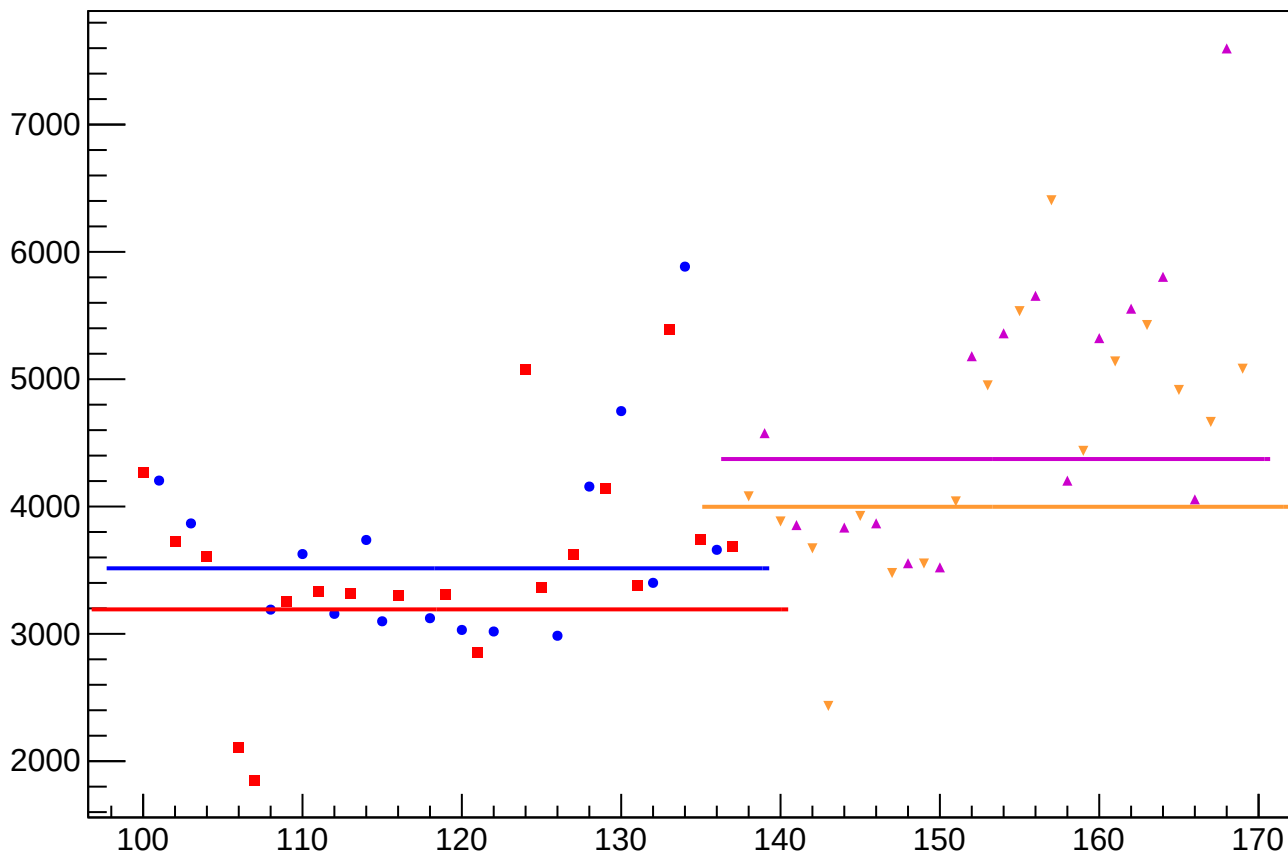
Right: 408.965 ± 890.176 $\chi^2/\text{NDF}: 31.2/34$

In: -203.447 ± 918.215 $\chi^2/\text{NDF}: 24.2/30$

Out: -259.248 ± 823.216 $\chi^2/\text{NDF}: 37.6/35$

All: -234.383 ± 612.945 $\chi^2/\text{NDF}: 61.8/66$

asym_at1_avg_at2_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.746+/-0.939 χ^2/NDF : 375078.6/15

Left Out: 3997.981+/-0.800 χ^2/NDF : 1518888.0/16

Right Out: 3192.203+/-0.849 χ^2/NDF : 772495.7/18

Left In: 4373.056+/-0.899 χ^2/NDF : 996365.1/14

Left: 4163.725+/-0.598 χ^2/NDF : 2612381.0/31

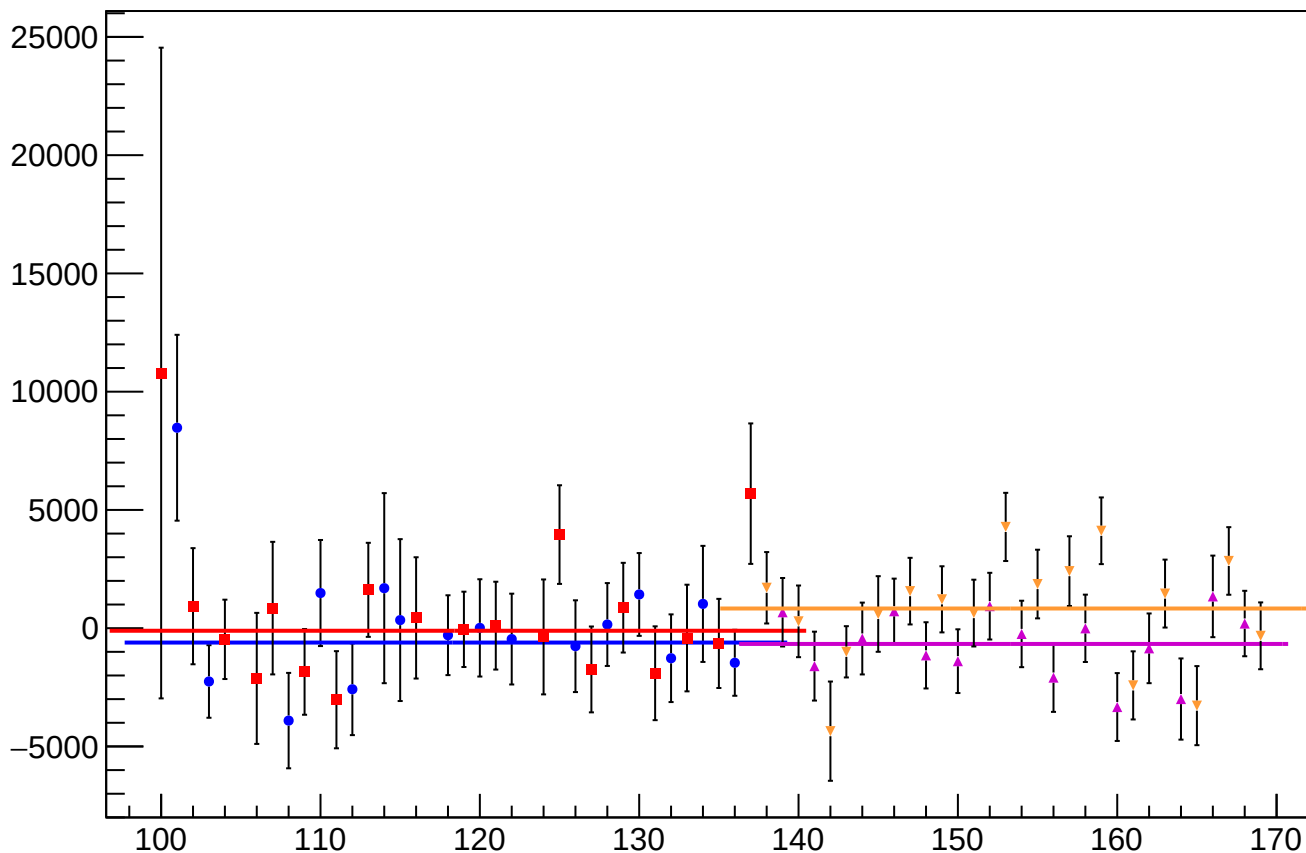
Right: 3337.259+/-0.629 χ^2/NDF : 1212554.2/34

In: 3962.351+/-0.649 χ^2/NDF : 1807524.1/30

Out: 3618.780+/-0.582 χ^2/NDF : 2768768.6/35

All: 3771.878+/-0.433 χ^2/NDF : 4731527.5/66

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -607.834 ± 494.182 $\chi^2/\text{NDF}: 14.1/15$

Left Out: 832.154 ± 351.448 $\chi^2/\text{NDF}: 36.6/16$

Right Out: -108.619 ± 485.553 $\chi^2/\text{NDF}: 14.9/18$

Left In: -666.445 ± 375.493 $\chi^2/\text{NDF}: 12.3/14$

Left: 132.369 ± 256.591 $\chi^2/\text{NDF}: 57.4/31$

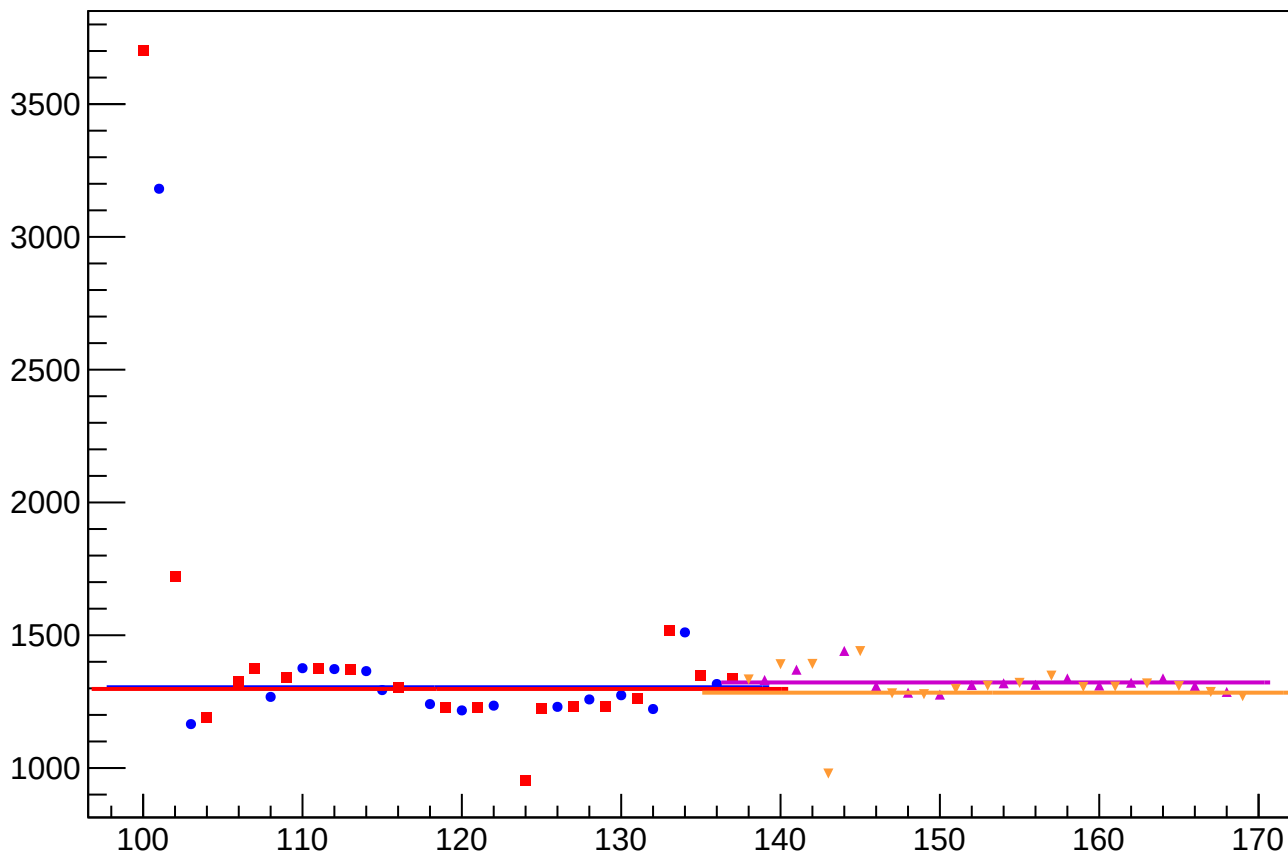
Right: -353.830 ± 346.348 $\chi^2/\text{NDF}: 29.5/34$

In: -644.992 ± 298.978 $\chi^2/\text{NDF}: 26.4/30$

Out: 508.726 ± 284.697 $\chi^2/\text{NDF}: 53.9/35$

All: -39.921 ± 206.175 $\chi^2/\text{NDF}: 88.2/66$

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 1304.102 $\pm$ 0.349 χ^2/NDF : 510589.6/15

Left Out: 1283.748 $\pm$ 0.249 χ^2/NDF : 203239.1/16

Right Out: 1297.796 $\pm$ 0.343 χ^2/NDF : 213097.0/18

Left In: 1322.254 $\pm$ 0.266 χ^2/NDF : 20621.1/14

Left: 1301.729 $\pm$ 0.181 χ^2/NDF : 235071.4/31

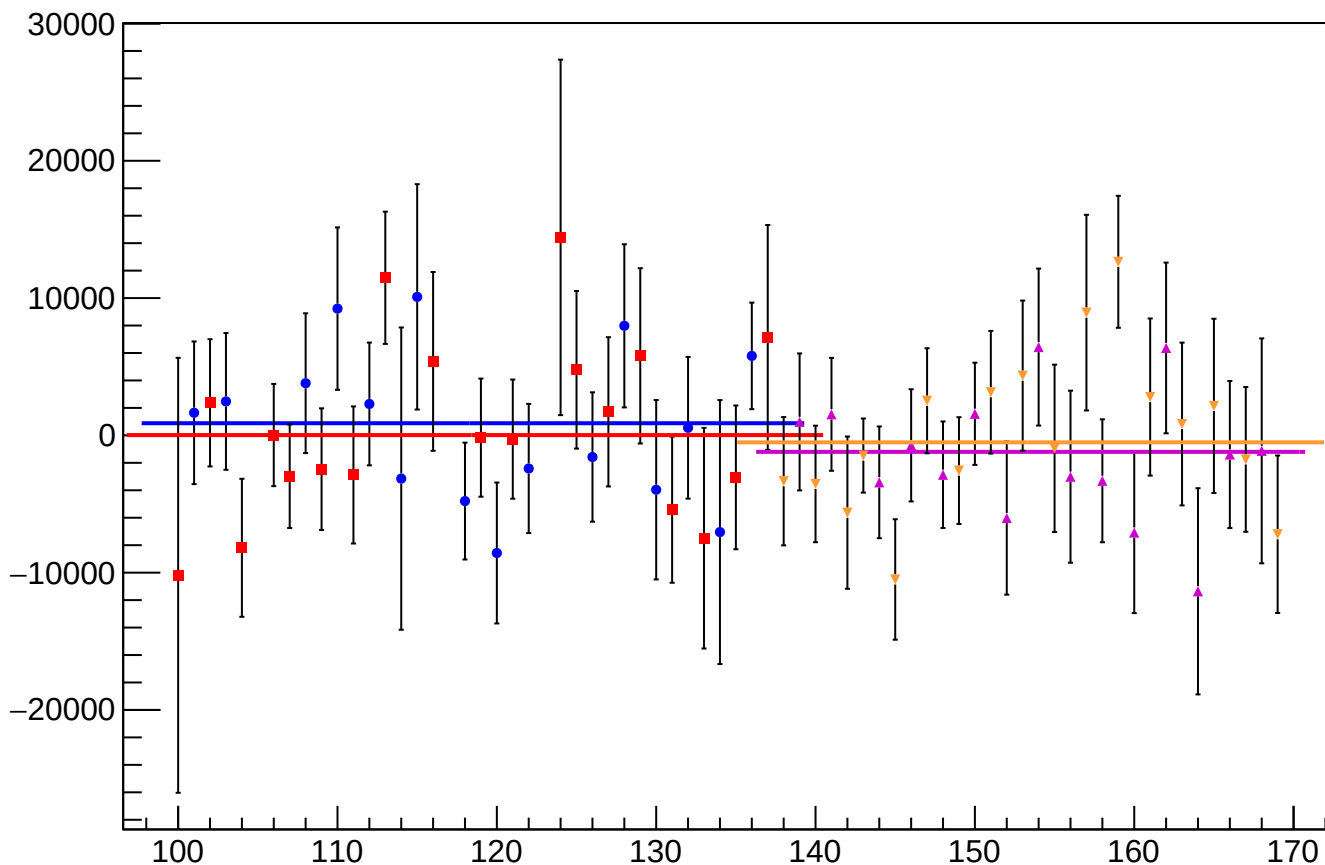
Right: 1300.891 $\pm$ 0.245 χ^2/NDF : 723852.4/34

In: 1315.610 $\pm$ 0.211 χ^2/NDF : 532921.4/30

Out: 1288.582 $\pm$ 0.201 χ^2/NDF : 417435.7/35

All: 1301.432 $\pm$ 0.146 χ^2/NDF : 958931.4/66

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.047 ± 1327.396 χ^2/NDF : 14.1/15

Left Out: -508.085 ± 1131.418 χ^2/NDF : 20.6/16

Right Out: 20.677 ± 1200.012 χ^2/NDF : 16.8/18

Left In: -1201.300 ± 1271.511 χ^2/NDF : 8.8/14

Left: -814.415 ± 845.241 χ^2/NDF : 29.6/31

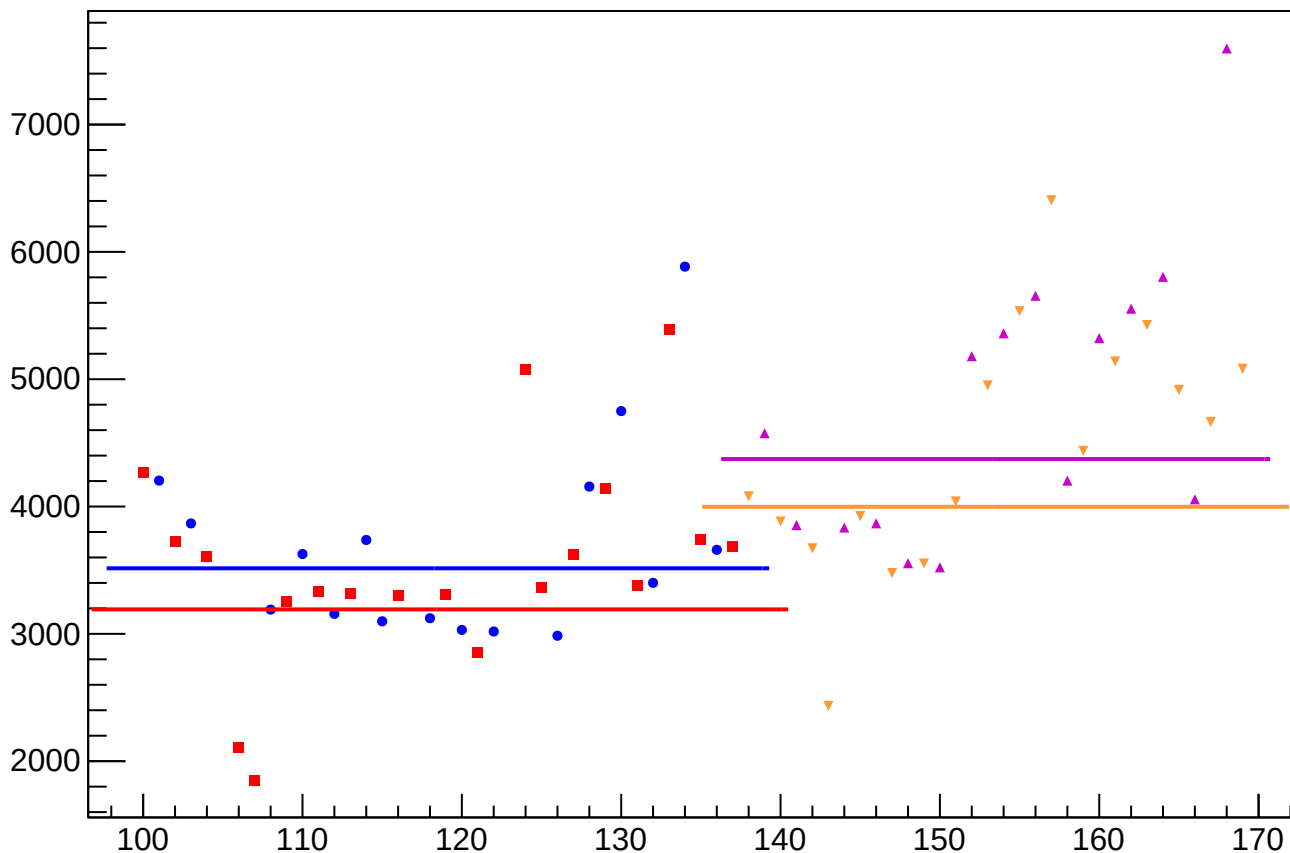
Right: 408.958 ± 890.174 χ^2/NDF : 31.2/34

In: -203.448 ± 918.215 χ^2/NDF : 24.2/30

Out: -259.247 ± 823.215 χ^2/NDF : 37.6/35

All: -234.383 ± 612.945 χ^2/NDF : 61.8/66

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.737 $\pm$ 0.939 χ^2 /NDF: 375082.8/15

Left Out: 3997.986 $\pm$ 0.800 χ^2 /NDF:1518889.2/16

Right Out: 3192.196 $\pm$ 0.849 χ^2 /NDF: 772497.9/18

Left In: 4373.063 $\pm$ 0.899 χ^2 /NDF:996366.9/14

Left: 4163.731 $\pm$ 0.598 χ^2 /NDF: 2612384.0/31

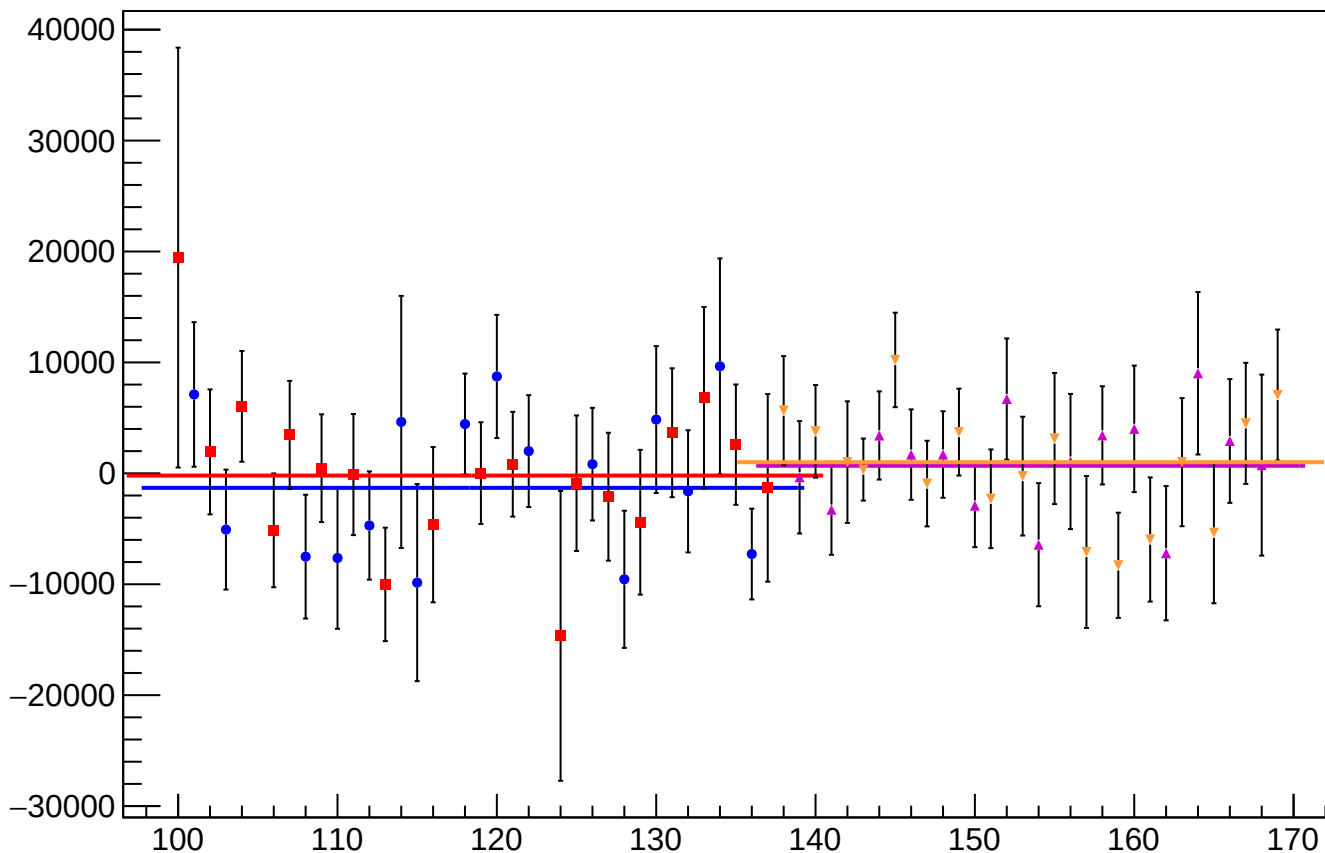
Right: 3337.251 $\pm$ 0.629 χ^2 /NDF: 1212560.4/34

In: 3962.348 $\pm$ 0.649 χ^2 /NDF:1807546.3/30

Out: 3618.778 $\pm$ 0.582 χ^2 /NDF:2768788.6/35

All: 3771.876 $\pm$ 0.433 χ^2 /NDF: 4731569.3/66

asym_at1_avg_at2_avg_dd_mean vs Slug, Sign Corrected



Right In: -1309.349+/-1431.624 χ^2/NDF : 17.6/15

Left Out: 1002.840+/-1135.187 χ^2/NDF : 16.8/16

Right Out: -201.593+/-1336.062 χ^2/NDF : 11.6/18

Left In: 683.377+/-1262.237 χ^2/NDF : 9.2/14

Left: 859.991+/-844.052 χ^2/NDF : 26.1/31

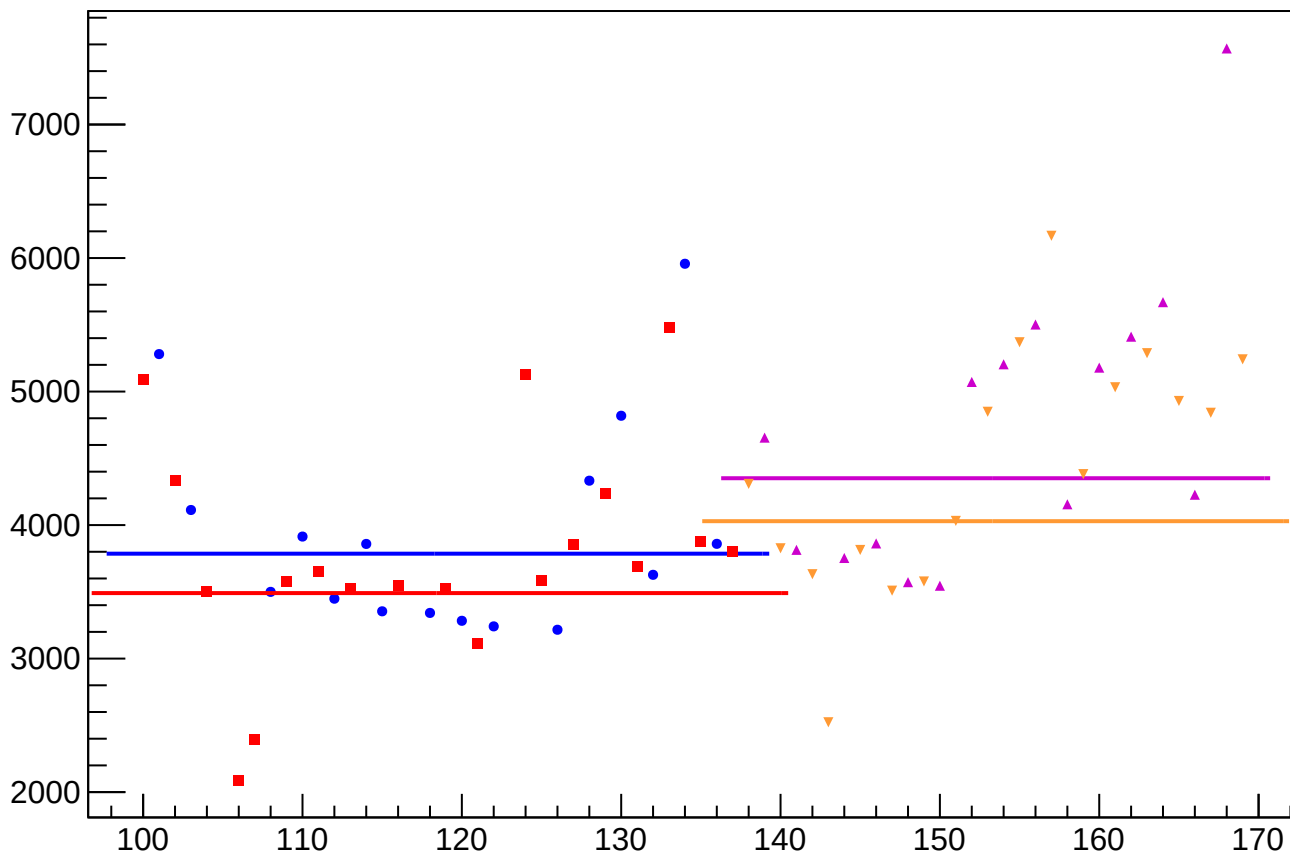
Right: -717.269+/-976.776 χ^2/NDF : 29.5/34

In: -188.179+/-946.788 χ^2/NDF : 27.9/30

Out: 497.883+/-865.092 χ^2/NDF : 28.9/35

All: 185.723+/-638.645 χ^2/NDF : 57.1/66

asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected



Right In: 3785.774+/-1.012 χ^2/NDF : 382992.9/15

Left Out: 4029.140+/-0.803 χ^2/NDF : 1353686.2/16

Right Out: 3490.614+/-0.932 χ^2/NDF : 586715.1/18

Left In: 4350.869+/-0.893 χ^2/NDF : 926013.3/14

Left: 4173.002+/-0.597 χ^2/NDF : 2351534.0/31

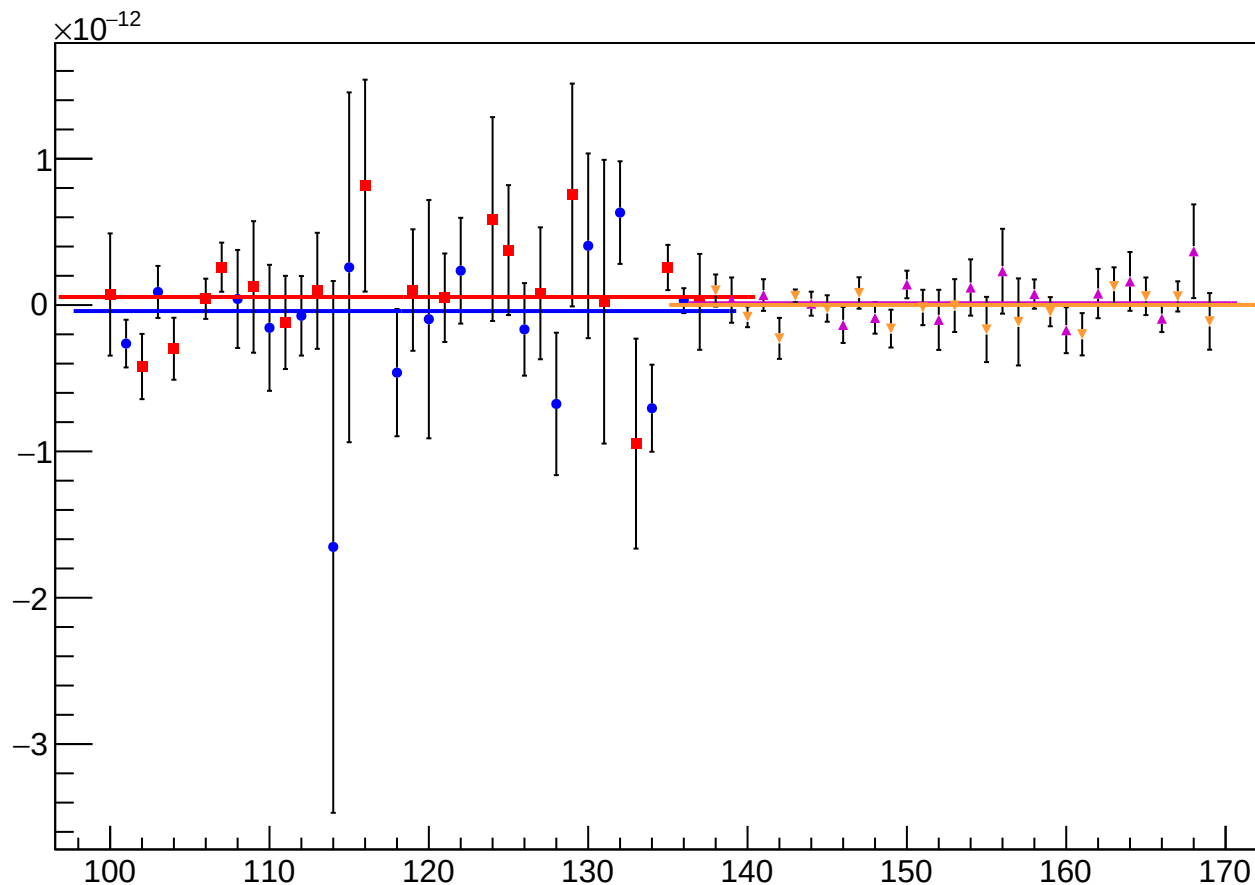
Right: 3626.002+/-0.686 χ^2/NDF : 1015727.1/34

In: 4103.711+/-0.669 χ^2/NDF : 1484331.0/30

Out: 3799.756+/-0.608 χ^2/NDF : 2132120.1/35

All: 3937.183+/-0.450 χ^2/NDF : 3729385.4/66

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 16.6/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 13.7/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 15.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 10.7/14

Left: 0.000 ± 0.000 χ^2/NDF : 24.5/31

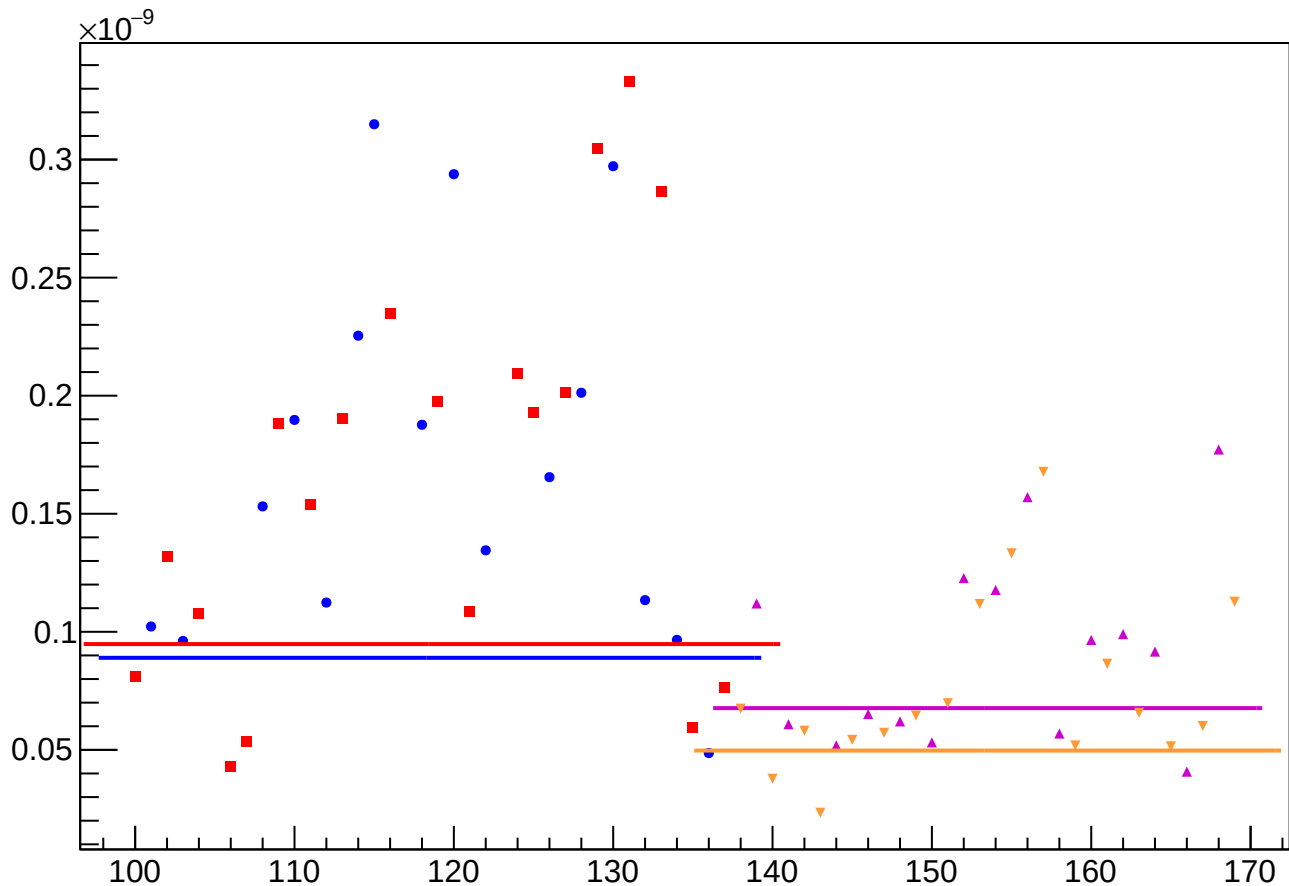
Right: 0.000 ± 0.000 χ^2/NDF : 33.7/34

In: -0.000 ± 0.000 χ^2/NDF : 28.0/30

Out: 0.000 ± 0.000 χ^2/NDF : 30.2/35

All: 0.000 ± 0.000 χ^2/NDF : 58.2/66

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1460718.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :2157329.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1734601.4/18

Left In: 0.000+/-0.000 χ^2/NDF :1364563.6/14

Left: 0.000+/-0.000 χ^2/NDF : 3906551.1/31

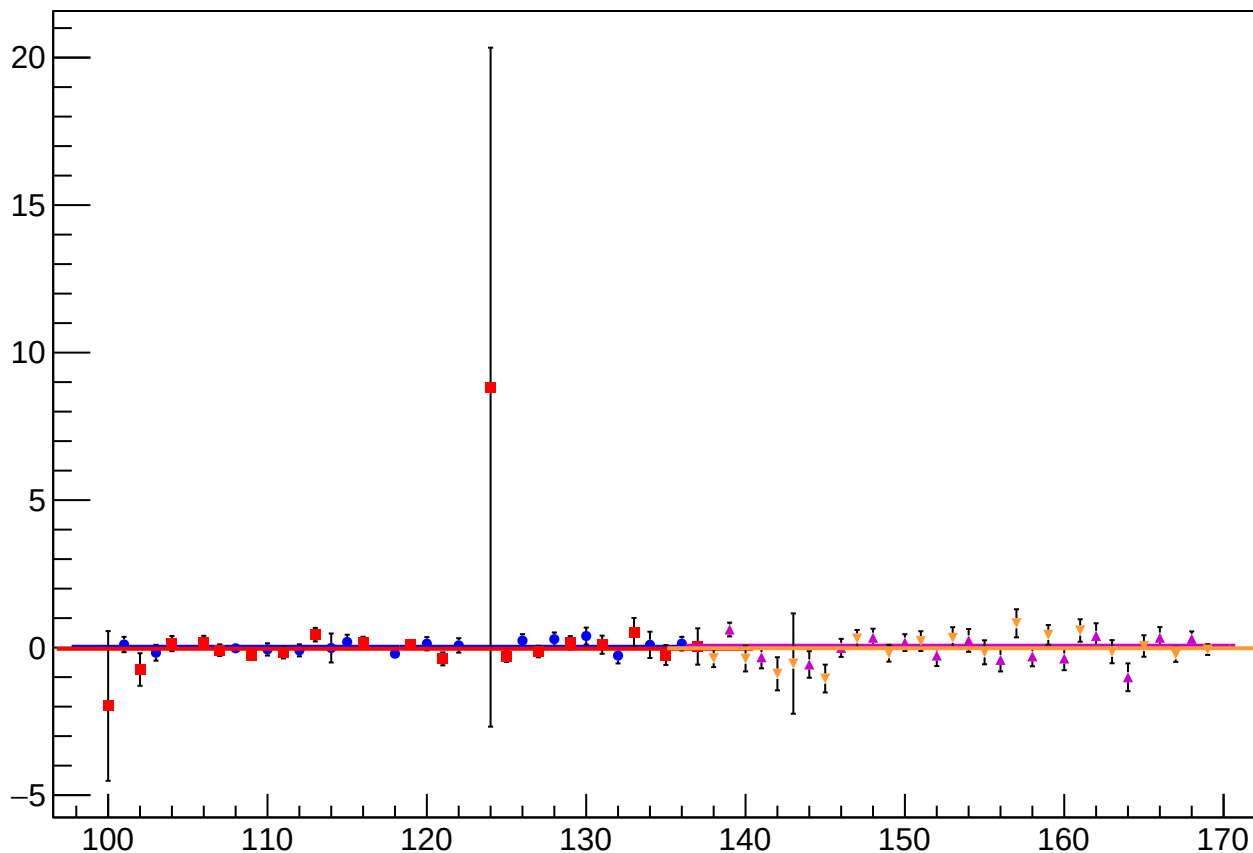
Right: 0.000+/-0.000 χ^2/NDF : 3204262.4/34

In: 0.000+/-0.000 χ^2/NDF :3024684.6/30

Out: 0.000+/-0.000 χ^2/NDF :4757392.1/35

All: 0.000+/-0.000 χ^2/NDF : 8217733.0/66

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.021 $\pm$ 0.081 χ^2 /NDF:20.7/16

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.064 $\pm$ 0.086 χ^2 /NDF:21.8/14

Left: 0.019 $\pm$ 0.059 χ^2 /NDF: 43.1/31

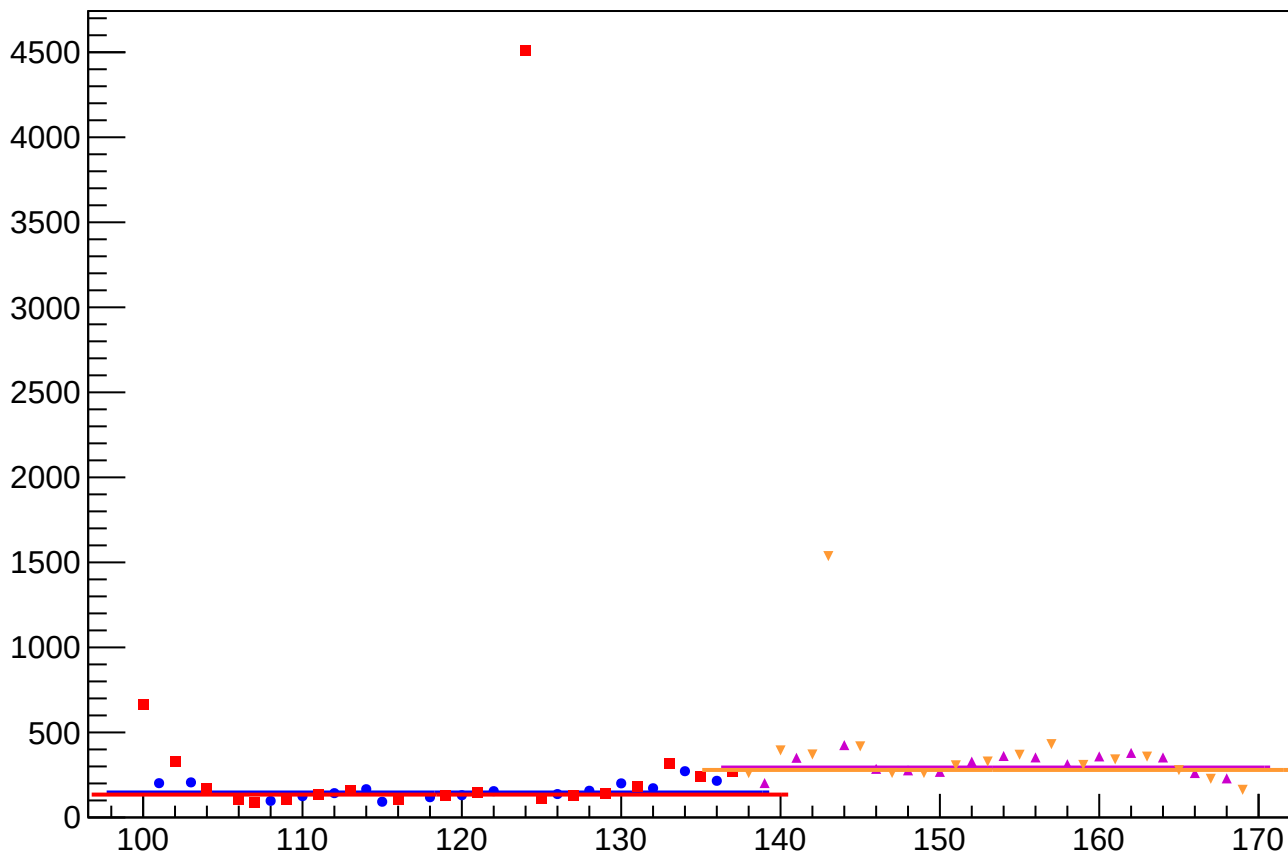
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.039 $\pm$ 0.048 χ^2 /NDF:31.4/30

Out: -0.033 $\pm$ 0.045 χ^2 /NDF:40.7/35

All: 0.001 $\pm$ 0.033 χ^2 /NDF: 73.4/66

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 279.404+/-0.058 χ^2/NDF : 2889224.6/16

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 293.553+/-0.061 χ^2/NDF : 996096.2/14

Left: 286.077+/-0.042 χ^2/NDF : 3913810.3/31

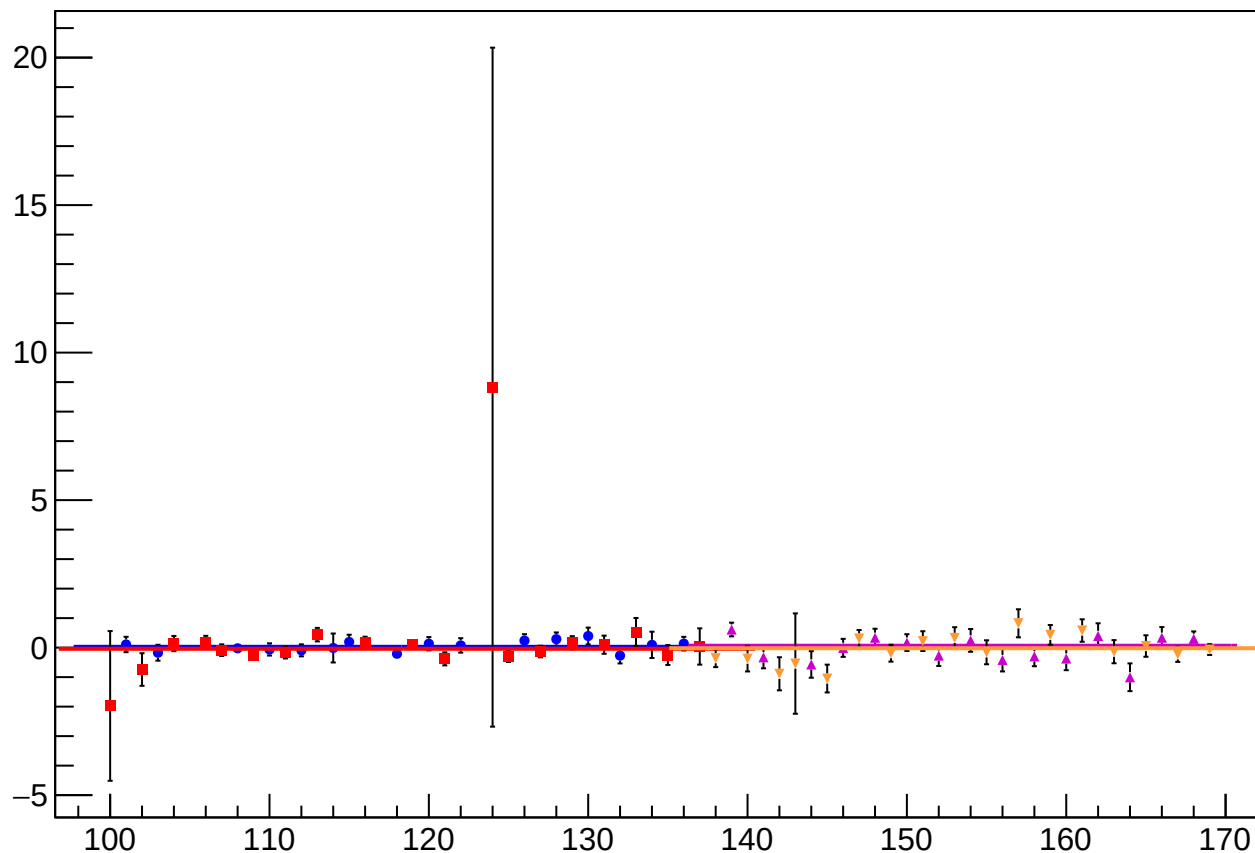
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 192.252+/-0.034 χ^2/NDF : 5998144.8/30

Out: 179.658+/-0.032 χ^2/NDF : 8856368.8/35

All: 185.619+/-0.023 χ^2/NDF : 14927195.3/66

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.021 $\pm$ 0.081 χ^2 /NDF:20.7/16

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.064 $\pm$ 0.086 χ^2 /NDF:21.8/14

Left: 0.019 $\pm$ 0.059 χ^2 /NDF: 43.1/31

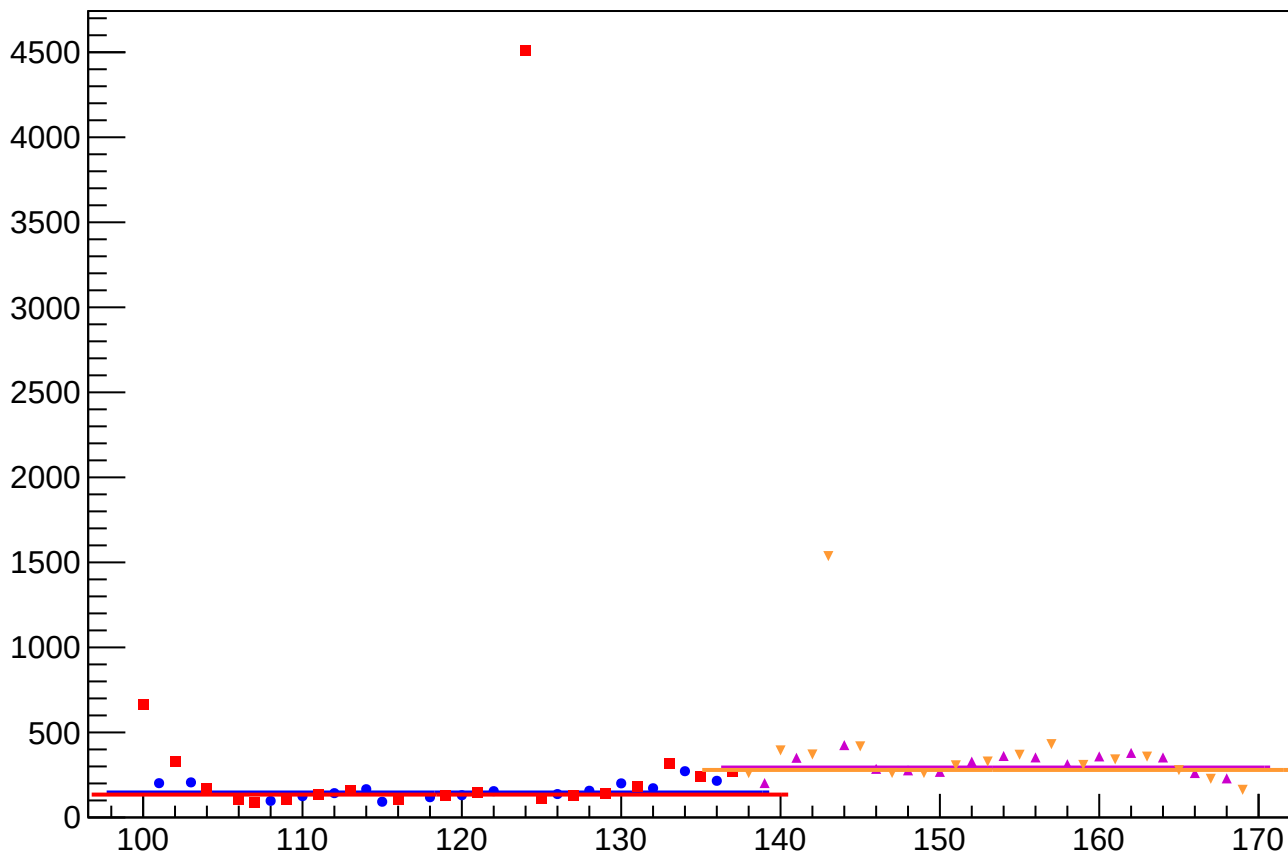
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.039 $\pm$ 0.048 χ^2 /NDF:31.4/30

Out: -0.033 $\pm$ 0.045 χ^2 /NDF:40.7/35

All: 0.001 $\pm$ 0.033 χ^2 /NDF: 73.4/66

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 279.404+/-0.058 χ^2/NDF : 2889224.6/16

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 293.553+/-0.061 χ^2/NDF : 996096.2/14

Left: 286.077+/-0.042 χ^2/NDF : 3913810.3/31

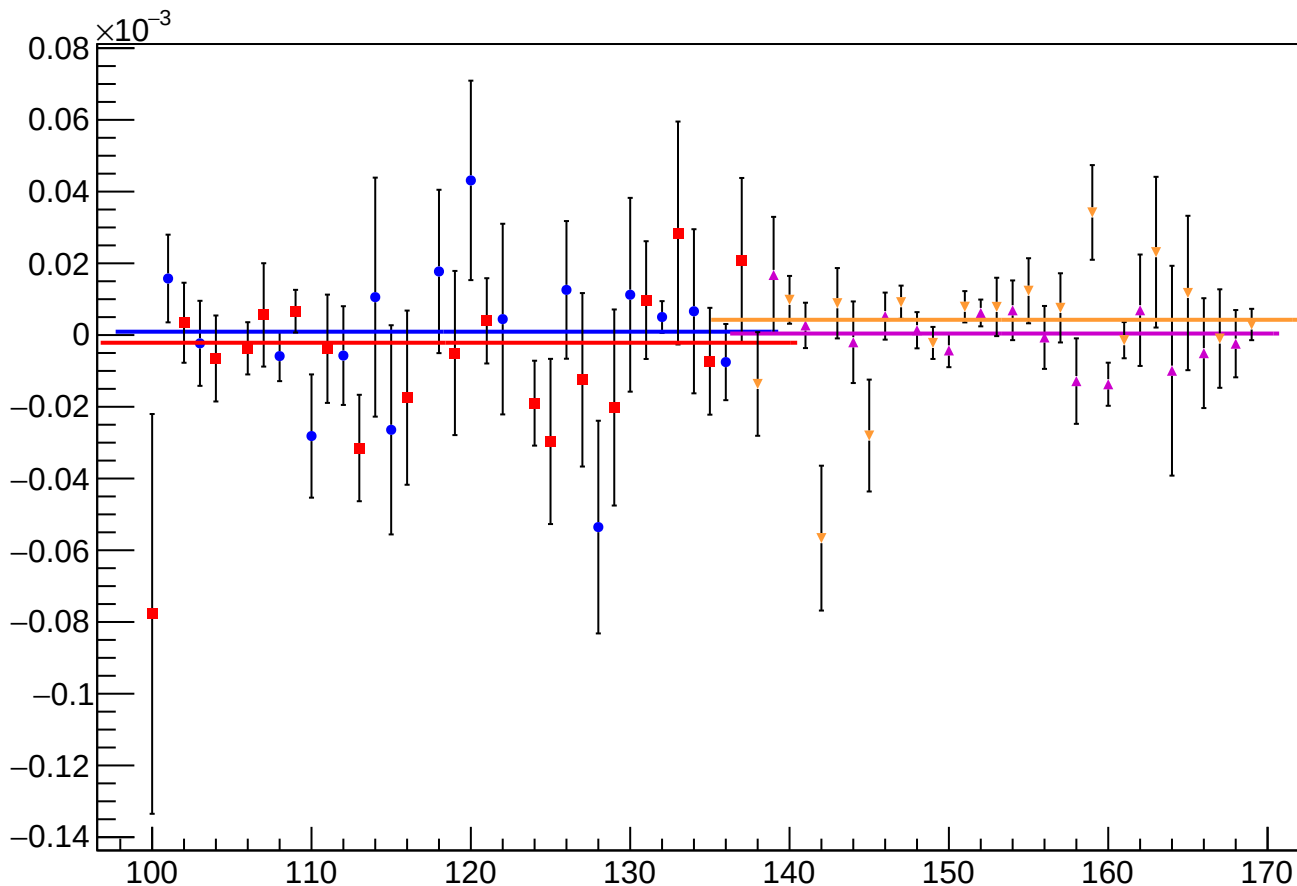
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 192.252+/-0.034 χ^2/NDF : 5998144.8/30

Out: 179.658+/-0.032 χ^2/NDF : 8856368.8/35

All: 185.619+/-0.023 χ^2/NDF : 14927195.3/66

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 28.4/16

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 13.1/14

Left: 0.000+/-0.000 χ^2/NDF : 43.8/31

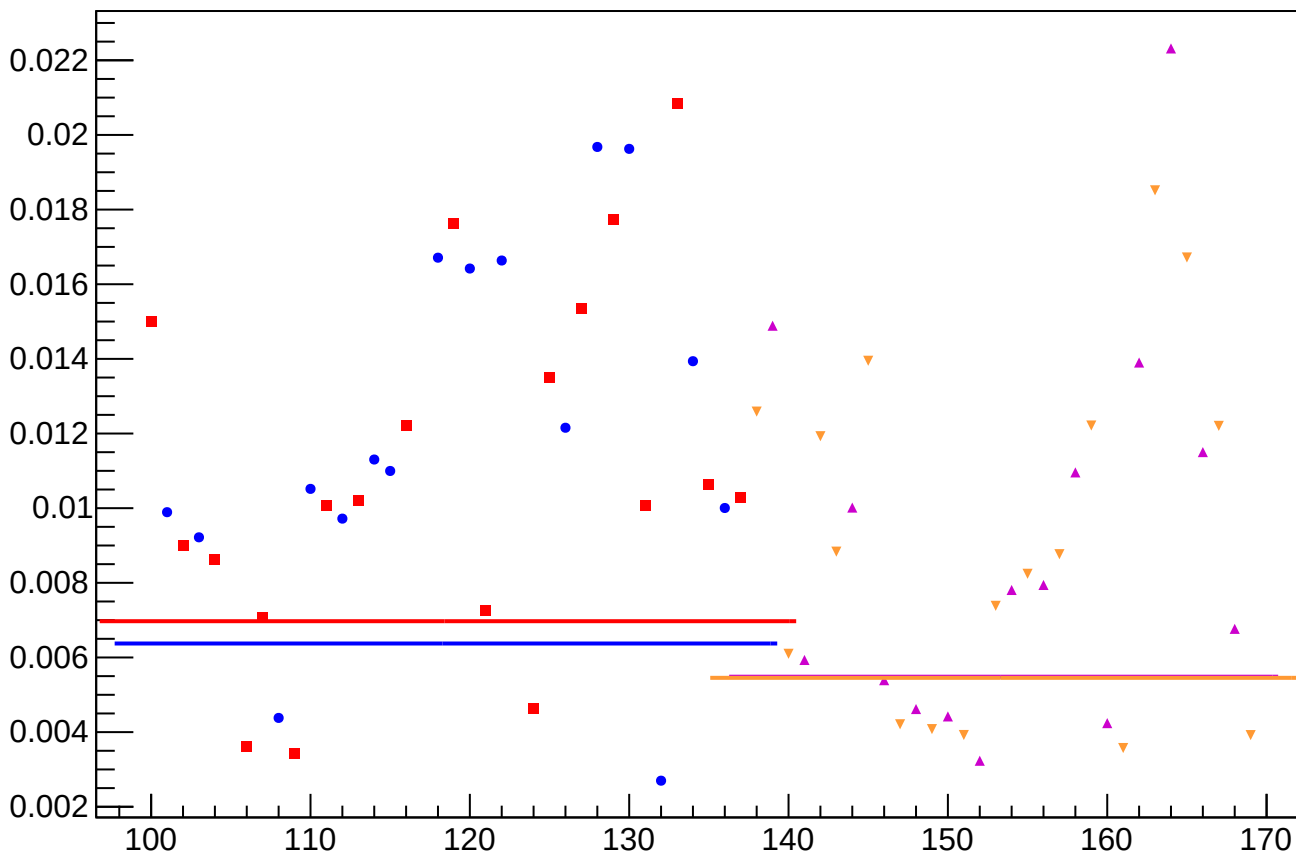
Right: -0.000+/-0.000 χ^2/NDF : 31.5/34

In: 0.000+/-0.000 χ^2/NDF : 28.0/30

Out: 0.000+/-0.000 χ^2/NDF : 47.9/35

All: 0.000+/-0.000 χ^2/NDF : 76.8/66

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000

χ^2/NDF : 4639775.7/15

Left Out: 0.005+/-0.000

χ^2/NDF : 5512404.9/16

Right Out: 0.007+/-0.000

χ^2/NDF : 3409939.3/18

Left In: 0.005+/-0.000

χ^2/NDF : 4308342.8/14

Left: 0.005+/-0.000

χ^2/NDF : 9821040.0/31

Right: 0.007+/-0.000

χ^2/NDF : 8090163.7/34

In: 0.006+/-0.000

χ^2/NDF : 9081038.5/30

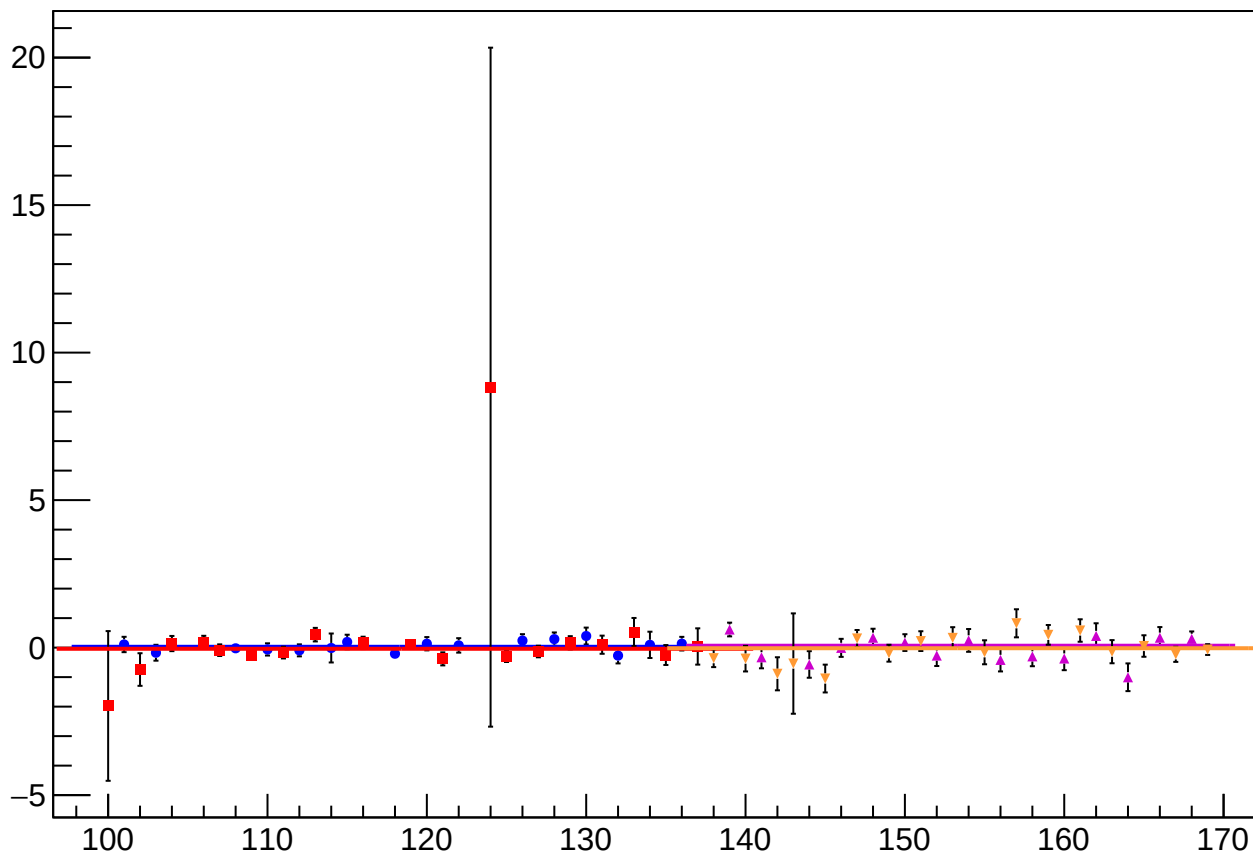
Out: 0.006+/-0.000

χ^2/NDF : 9304887.3/35

All: 0.006+/-0.000

χ^2/NDF : 18389622.6/66

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.021 $\pm$ 0.081 χ^2 /NDF:20.7/16

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.064 $\pm$ 0.086 χ^2 /NDF:21.8/14

Left: 0.019 $\pm$ 0.059 χ^2 /NDF: 43.1/31

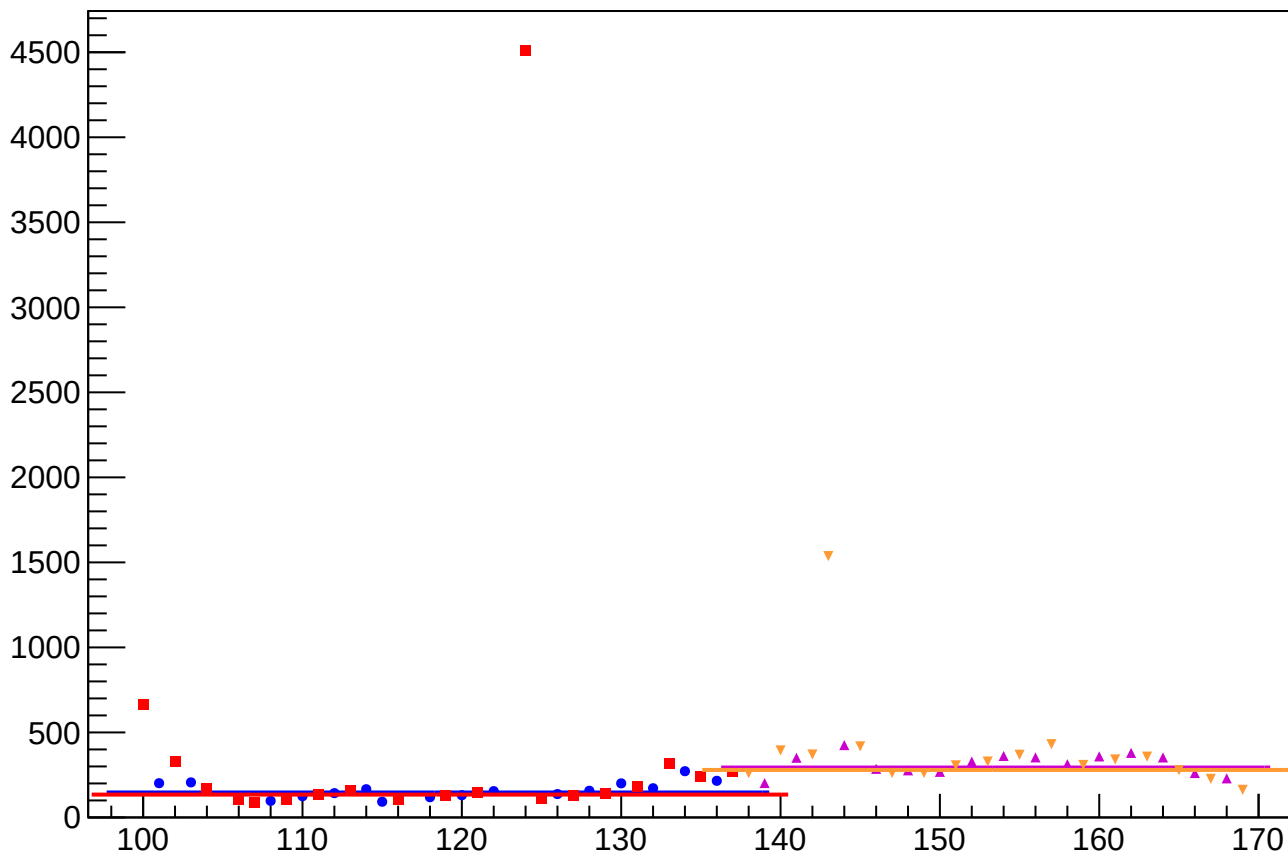
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.039 $\pm$ 0.048 χ^2 /NDF:31.4/30

Out: -0.033 $\pm$ 0.045 χ^2 /NDF:40.7/35

All: 0.001 $\pm$ 0.033 χ^2 /NDF: 73.4/66

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998646.8/15

Left Out: 279.406+/-0.058 χ^2/NDF : 2889306.4/16

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 293.557+/-0.061 χ^2/NDF : 996077.4/14

Left: 286.081+/-0.042 χ^2/NDF : 3913882.0/31

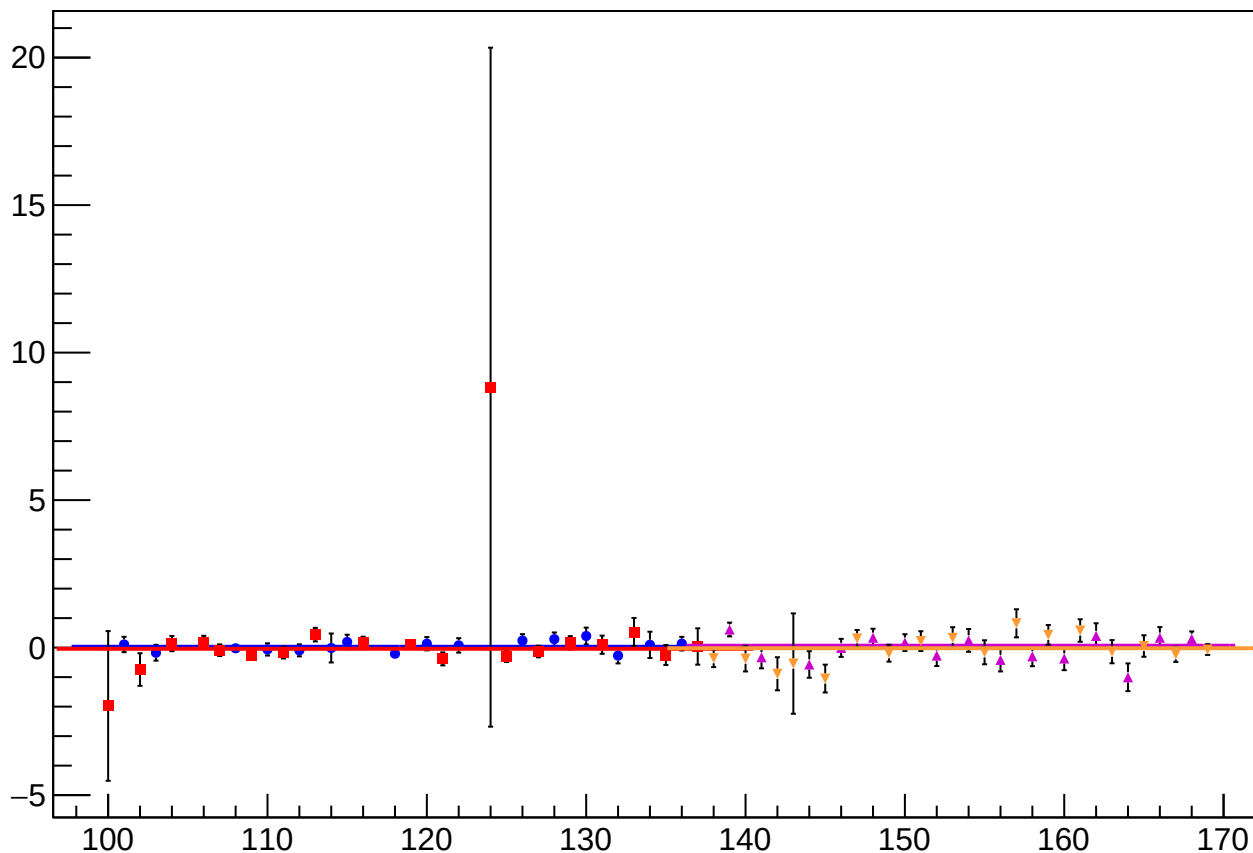
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 192.253+/-0.034 χ^2/NDF : 5998245.9/30

Out: 179.660+/-0.032 χ^2/NDF : 8856366.4/35

All: 185.620+/-0.023 χ^2/NDF : 14927280.5/66

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 $\chi^2/\text{NDF}: 9.4/15$

Left Out: -0.021 ± 0.081 $\chi^2/\text{NDF}: 20.7/16$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.064 ± 0.086 $\chi^2/\text{NDF}: 21.8/14$

Left: 0.019 ± 0.059 $\chi^2/\text{NDF}: 43.1/31$

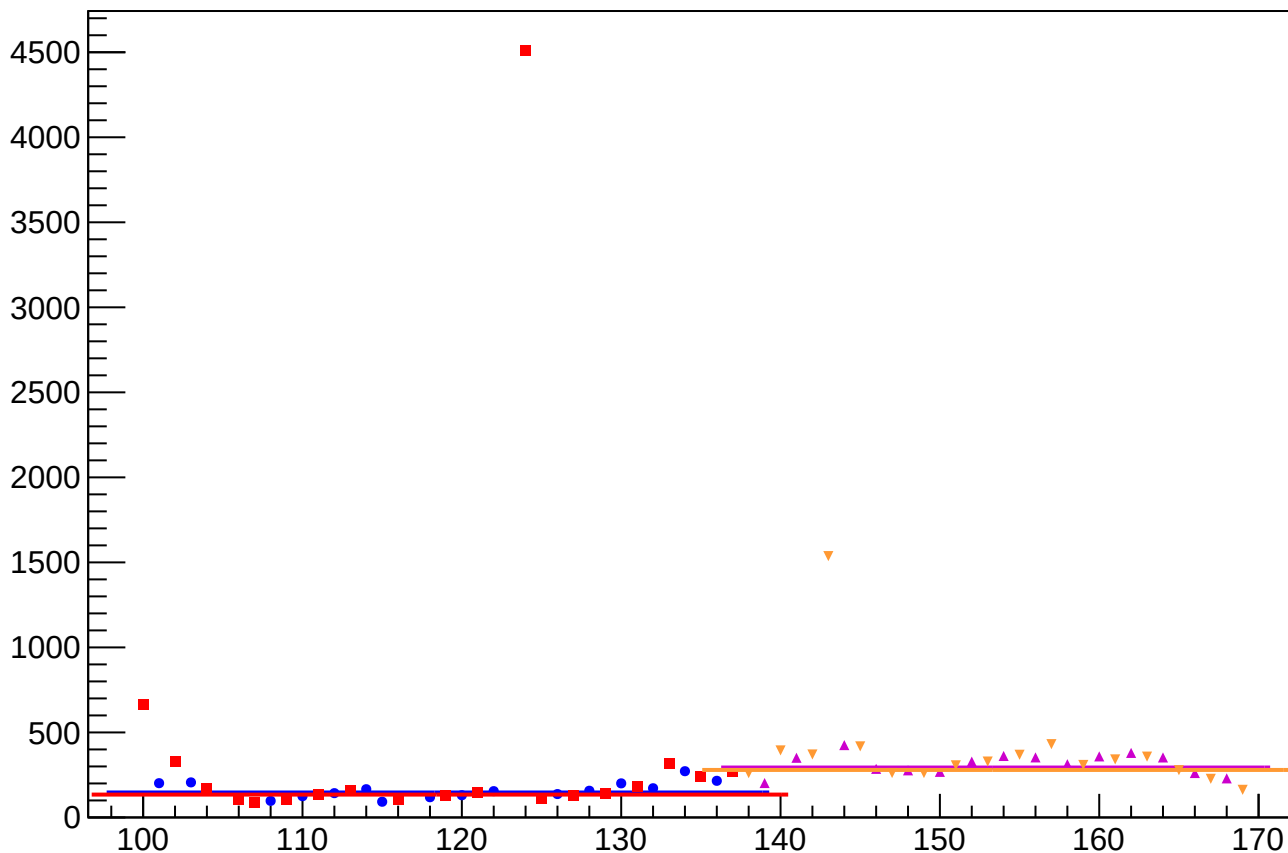
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.039 ± 0.048 $\chi^2/\text{NDF}: 31.4/30$

Out: -0.033 ± 0.045 $\chi^2/\text{NDF}: 40.7/35$

All: 0.001 ± 0.033 $\chi^2/\text{NDF}: 73.4/66$

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998646.8/15

Left Out: 279.406+/-0.058 χ^2/NDF :2889306.4/16

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 293.557+/-0.061 χ^2/NDF :996077.4/14

Left: 286.081+/-0.042 χ^2/NDF : 3913882.0/31

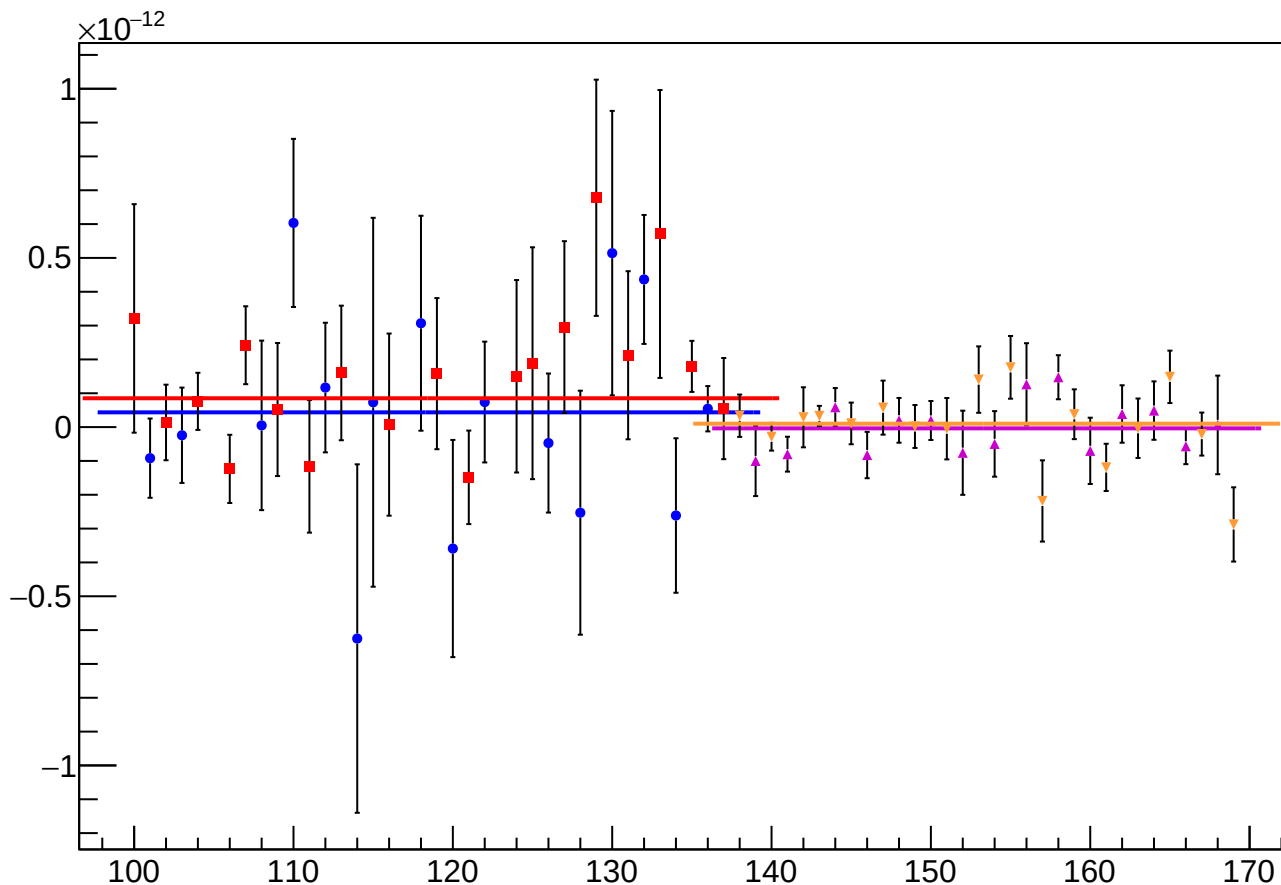
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 192.253+/-0.034 χ^2/NDF :5998245.9/30

Out: 179.660+/-0.032 χ^2/NDF :8856366.4/35

All: 185.620+/-0.023 χ^2/NDF : 14927280.5/66

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 25.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 15.1/14

Left: 0.000+/-0.000 χ^2/NDF : 40.5/31

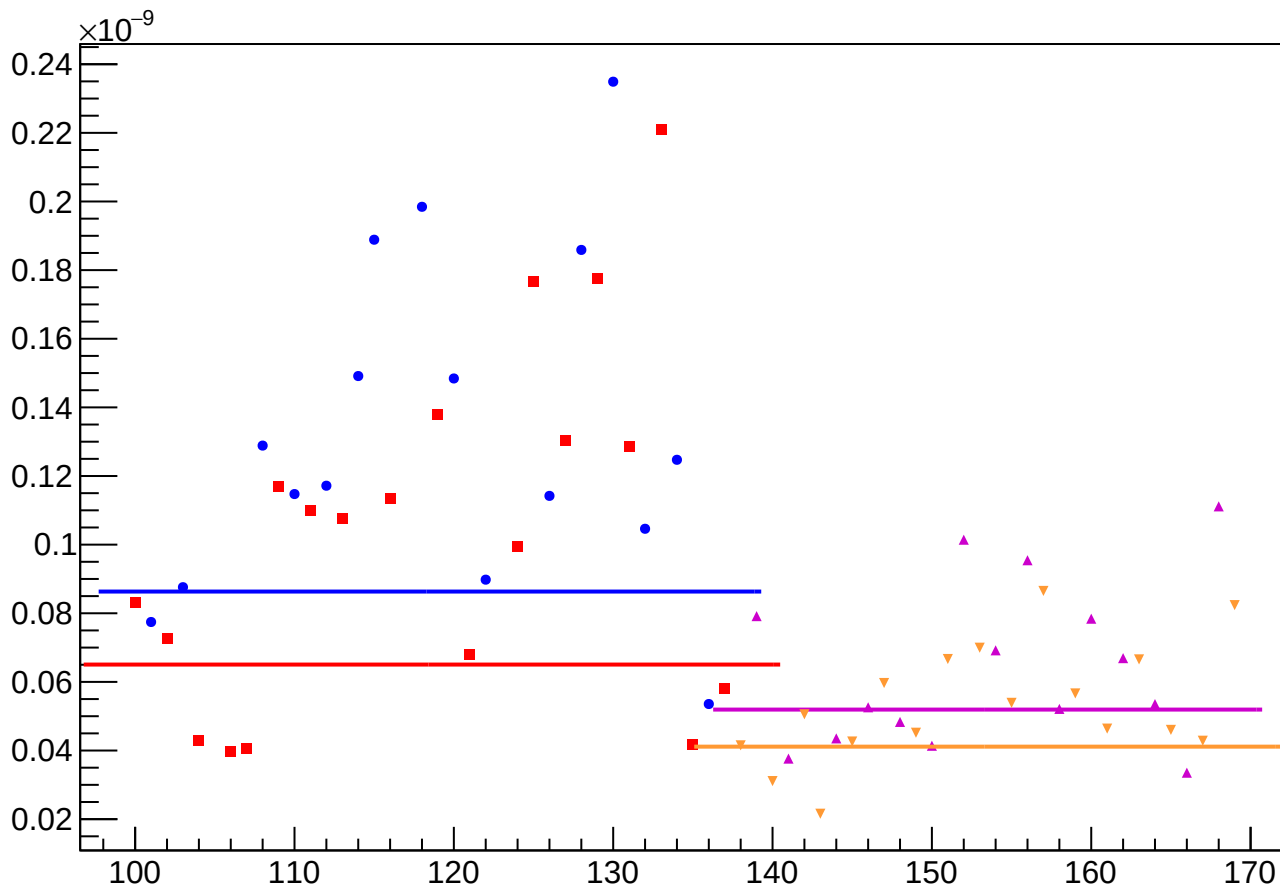
Right: 0.000+/-0.000 χ^2/NDF : 37.8/34

In: 0.000+/-0.000 χ^2/NDF : 35.1/30

Out: 0.000+/-0.000 χ^2/NDF : 47.3/35

All: 0.000+/-0.000 χ^2/NDF : 83.0/66

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1565662.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2344358.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2158861.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 1827017.2/14

Left: 0.000+/-0.000 χ^2/NDF : 4562129.0/31

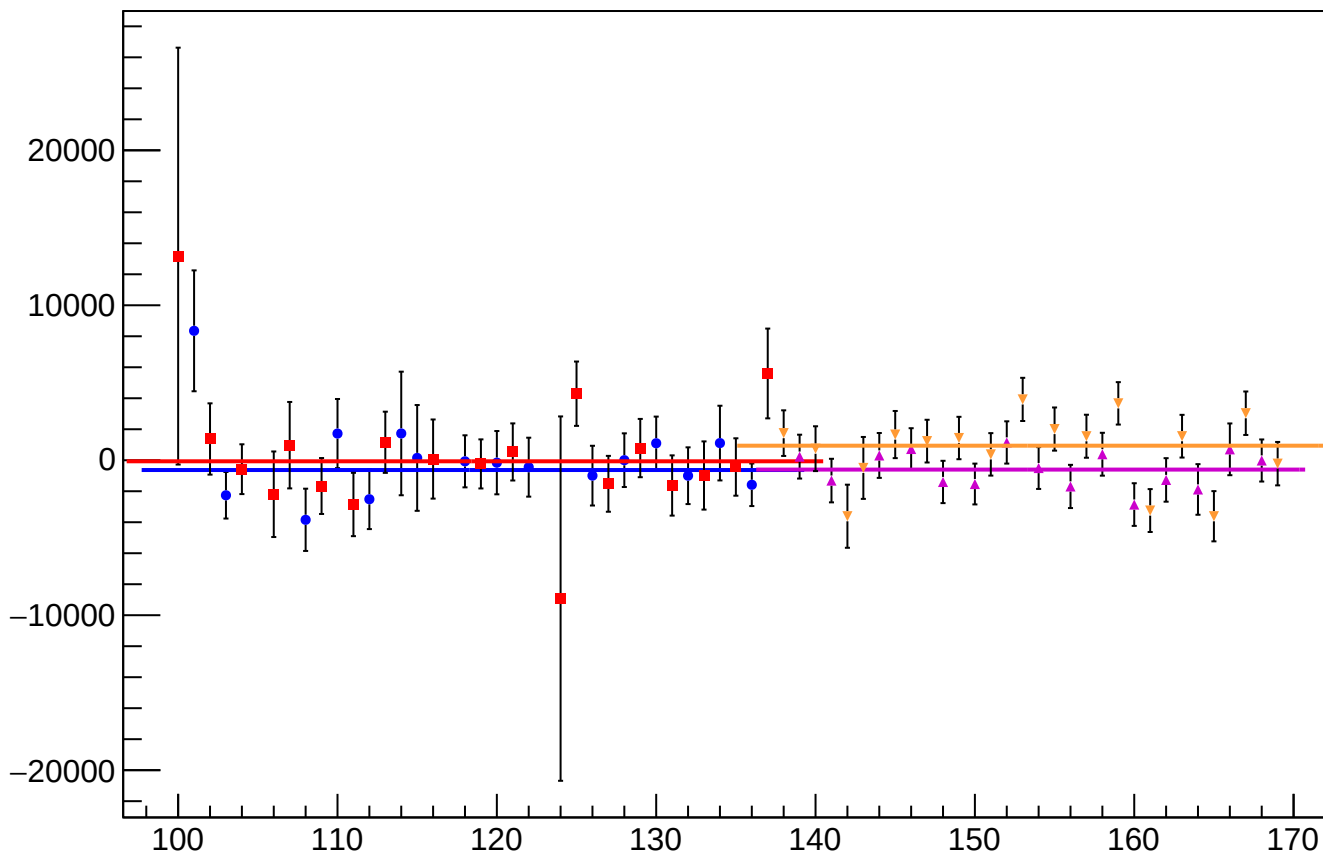
Right: 0.000+/-0.000 χ^2/NDF : 4026528.8/34

In: 0.000+/-0.000 χ^2/NDF : 4475062.6/30

Out: 0.000+/-0.000 χ^2/NDF : 5315337.7/35

All: 0.000+/-0.000 χ^2/NDF : 10411236.4/66

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -631.041+/-488.663 χ^2/NDF : 13.9/15

Left Out: 939.060+/-353.814 χ^2/NDF : 35.9/16

Right Out: -67.642+/-487.761 χ^2/NDF : 15.9/18

Left In: -602.937+/-363.027 χ^2/NDF : 9.9/14

Left: 187.877+/-253.379 χ^2/NDF : 55.1/31

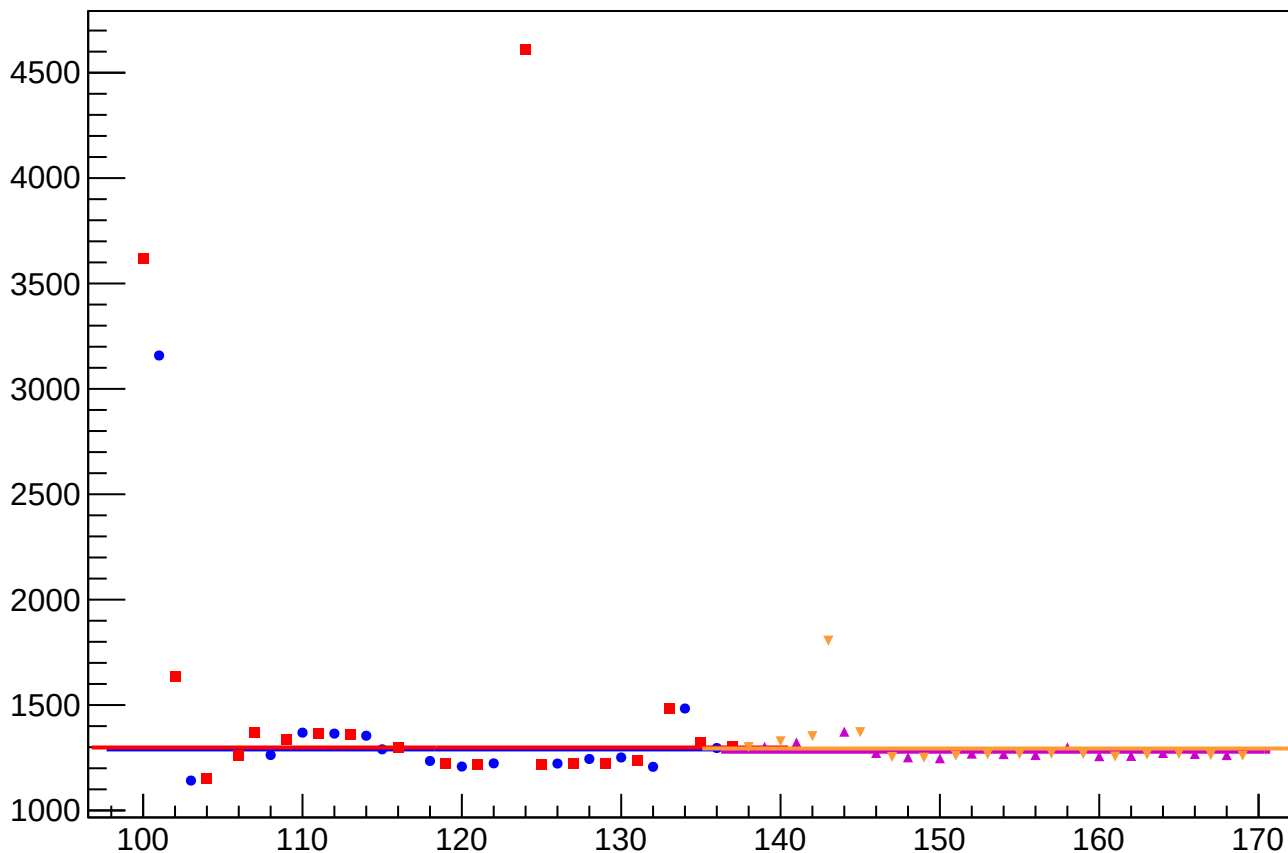
Right: -348.821+/-345.217 χ^2/NDF : 30.4/34

In: -612.932+/-291.412 χ^2/NDF : 23.8/30

Out: 591.979+/-286.399 χ^2/NDF : 54.6/35

All: -0.024+/-204.264 χ^2/NDF : 87.1/66

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.346 χ^2 /NDF: 514675.0/15

Left Out: 1293.789 $\pm$ 0.250 χ^2 /NDF: 151885.4/16

Right Out: 1298.656 $\pm$ 0.344 χ^2 /NDF: 319374.9/18

Left In: 1278.611 $\pm$ 0.257 χ^2 /NDF: 15211.1/14

Left: 1286.395 $\pm$ 0.179 χ^2 /NDF: 168889.4/31

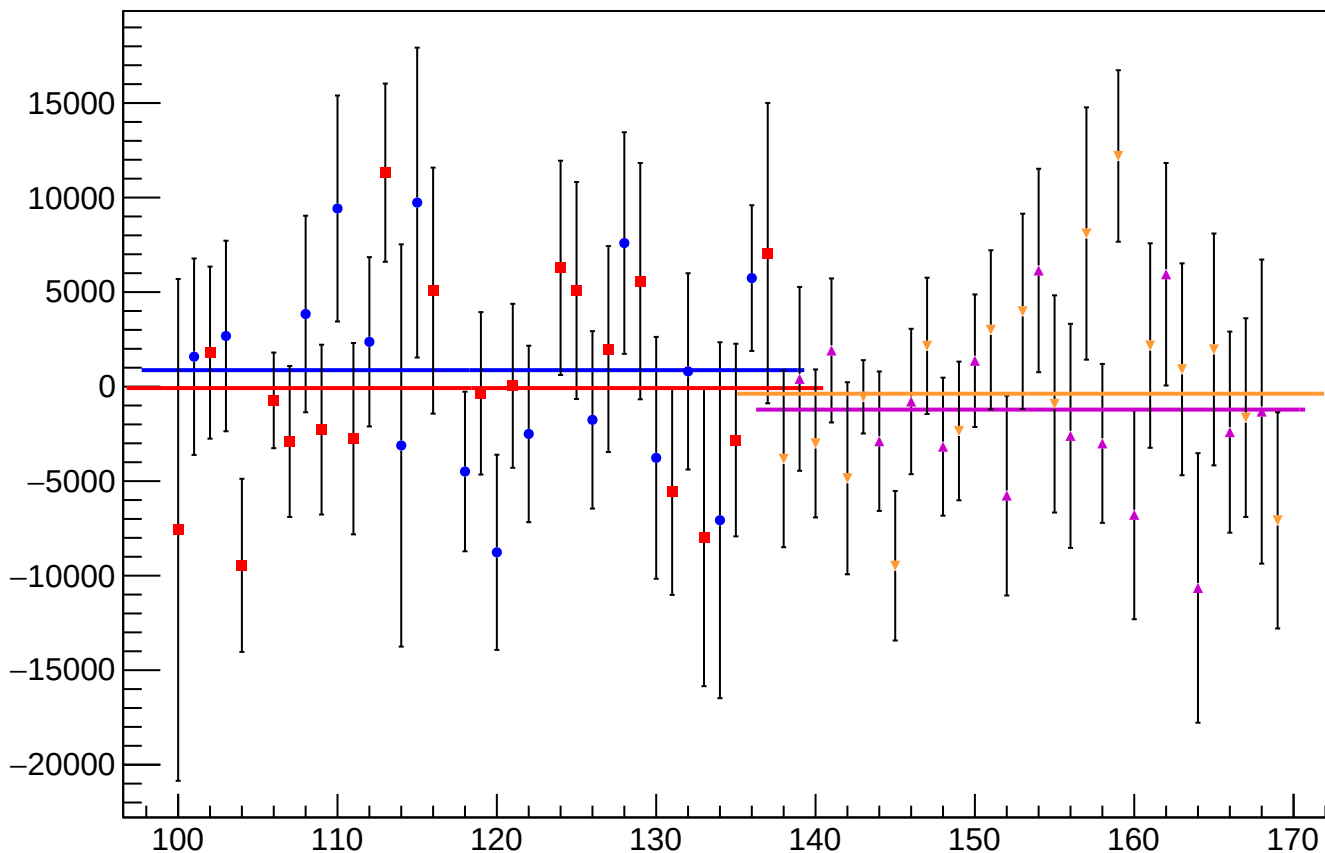
Right: 1294.081 $\pm$ 0.244 χ^2 /NDF: 834405.1/34

In: 1282.472 $\pm$ 0.206 χ^2 /NDF: 530522.1/30

Out: 1295.473 $\pm$ 0.202 χ^2 /NDF: 471391.2/35

All: 1289.091 $\pm$ 0.144 χ^2 /NDF: 1003940.0/60

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 870.295 $\pm$ 1325.278 χ^2 /NDF: 14.0/15

Left Out: -376.488 $\pm$ 1007.264 χ^2 /NDF:20.4/16

Right Out: -77.323 $\pm$ 1111.074 χ^2 /NDF: 18.4/18

Left In: -1216.556 $\pm$ 1198.349 χ^2 /NDF:9.0/14

Left: -724.284 $\pm$ 771.061 χ^2 /NDF: 29.6/31

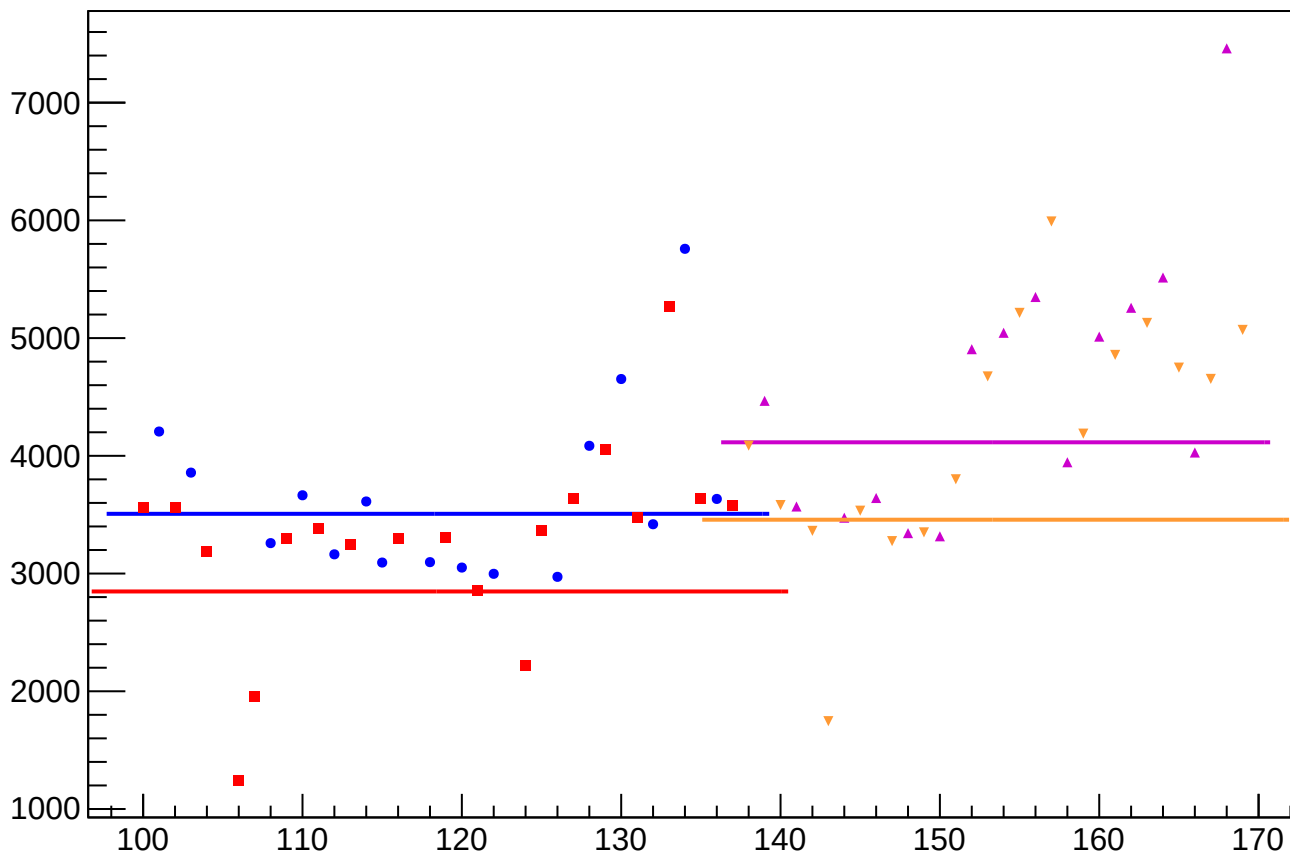
Right: 313.810 $\pm$ 851.438 χ^2 /NDF: 32.7/34

In: -277.826 $\pm$ 888.856 χ^2 /NDF:24.4/30

Out: -241.531 $\pm$ 746.252 χ^2 /NDF:38.8/35

All: -256.537 $\pm$ 571.531 χ^2 /NDF: 63.2/66

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3507.397+/-0.937 χ^2/NDF : 353979.1/15

Left Out: 3457.353+/-0.712 χ^2/NDF : 2918517.7/16

Right Out: 2847.833+/-0.786 χ^2/NDF : 1499373.6/18

Left In: 4114.845+/-0.847 χ^2/NDF : 1081883.1/14

Left: 3729.561+/-0.545 χ^2/NDF : 4353205.5/31

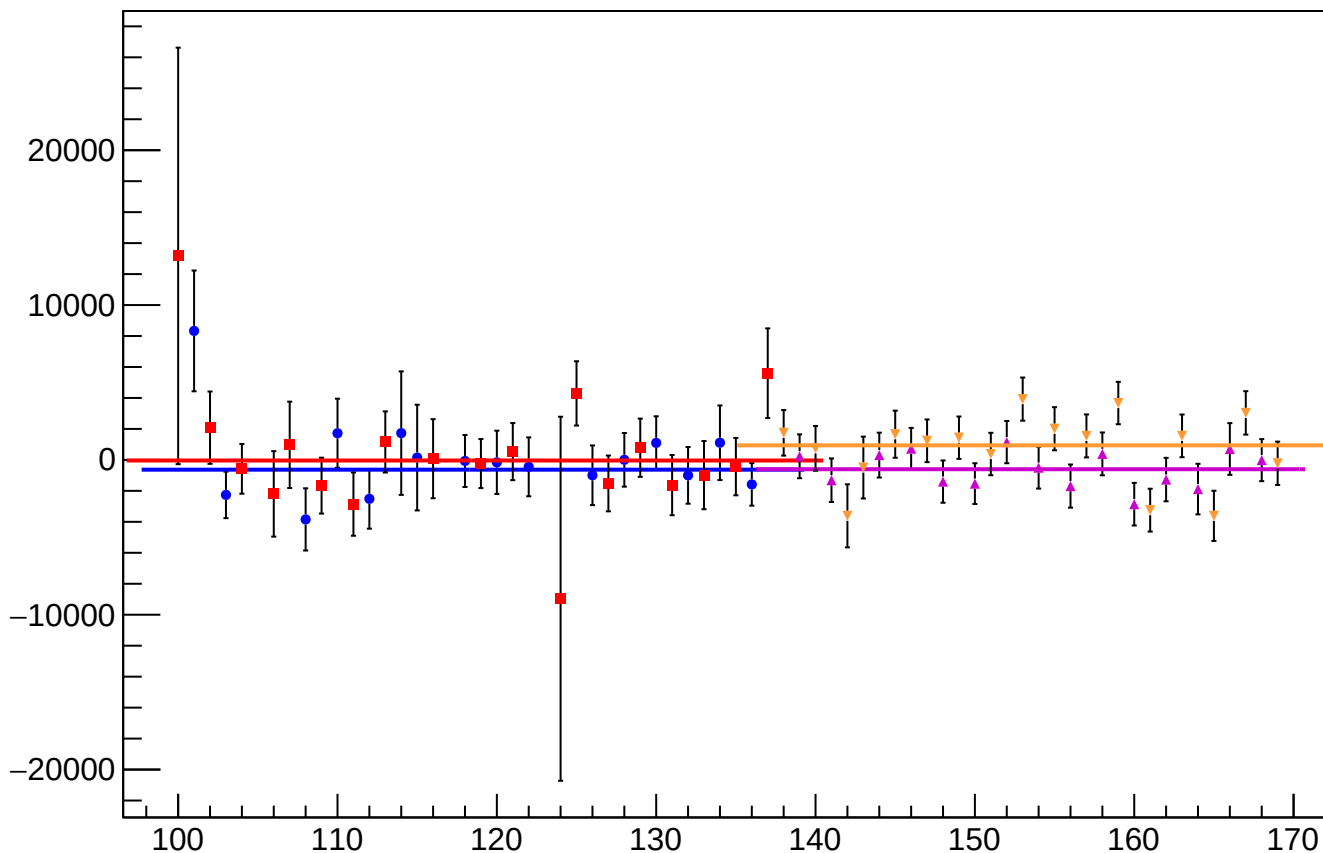
Right: 3120.071+/-0.602 χ^2/NDF : 2144256.9/34

In: 3841.596+/-0.629 χ^2/NDF : 1667031.3/30

Out: 3182.391+/-0.528 χ^2/NDF : 4748263.4/35

All: 3454.935+/-0.404 χ^2/NDF : 7060528.9/66

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 939.089+/-353.814 χ^2/NDF : 35.9/16

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -602.935+/-363.027 χ^2/NDF : 9.9/14

Left: 187.893+/-253.379 χ^2/NDF : 55.1/31

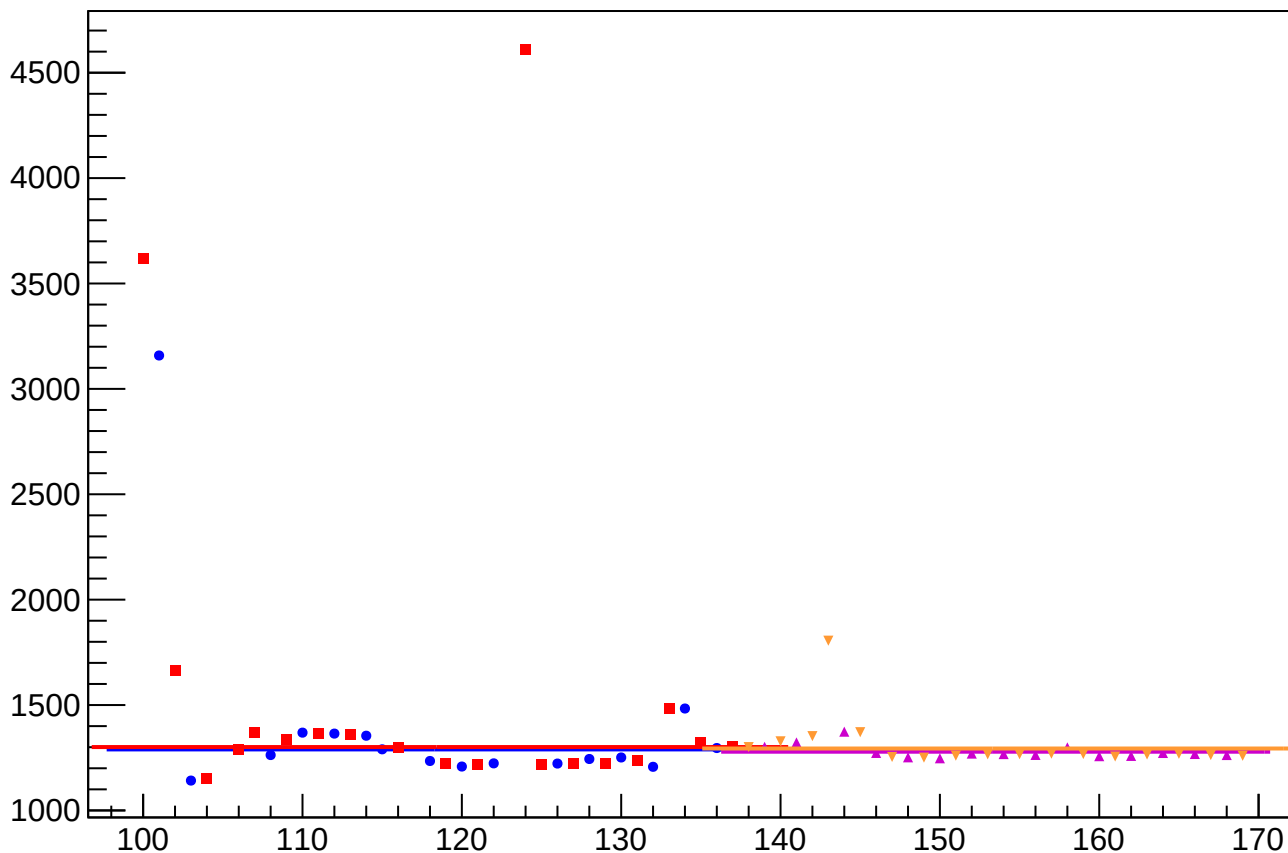
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -613.067+/-291.412 χ^2/NDF : 23.8/30

Out: 602.296+/-286.465 χ^2/NDF : 54.9/35

All: 5.019+/-204.288 χ^2/NDF : 87.5/66

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514676.5/15

Left Out: 1293.789+/-0.250 χ^2/NDF : 151885.4/16

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1278.611+/-0.257 χ^2/NDF : 15211.1/14

Left: 1286.395+/-0.179 χ^2/NDF : 168889.4/31

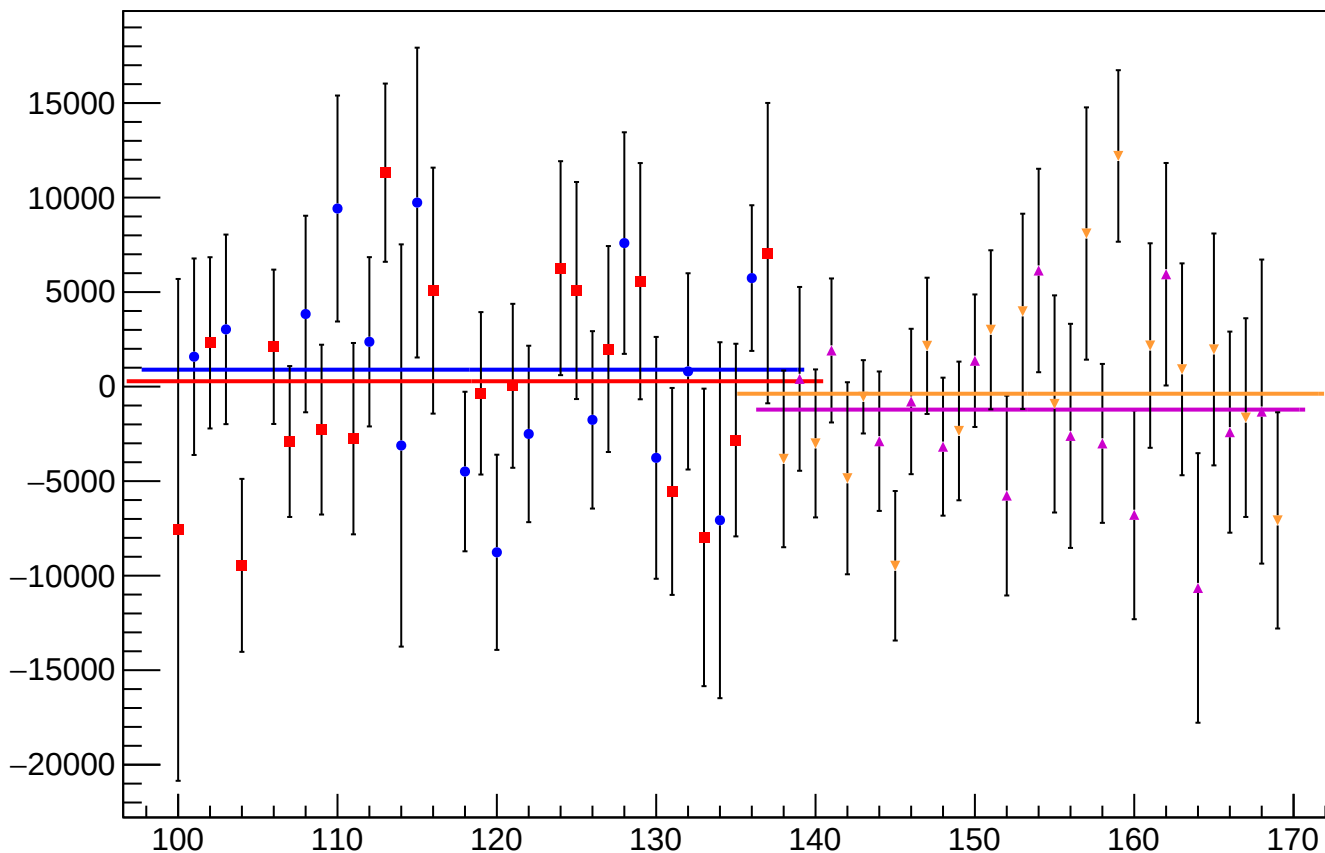
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1282.472+/-0.206 χ^2/NDF : 530523.5/30

Out: 1296.170+/-0.202 χ^2/NDF : 478055.3/35

All: 1289.442+/-0.144 χ^2/NDF : 1010827.7/66

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017+/-1324.823 χ^2/NDF : 14.1/15

Left Out: -376.389+/-1007.262 χ^2/NDF :20.4/16

Right Out: 283.963+/-1183.171 χ^2/NDF : 18.6/18

Left In: -1216.598+/-1198.348 χ^2/NDF :9.0/14

Left: -724.243+/-771.060 χ^2/NDF : 29.6/31

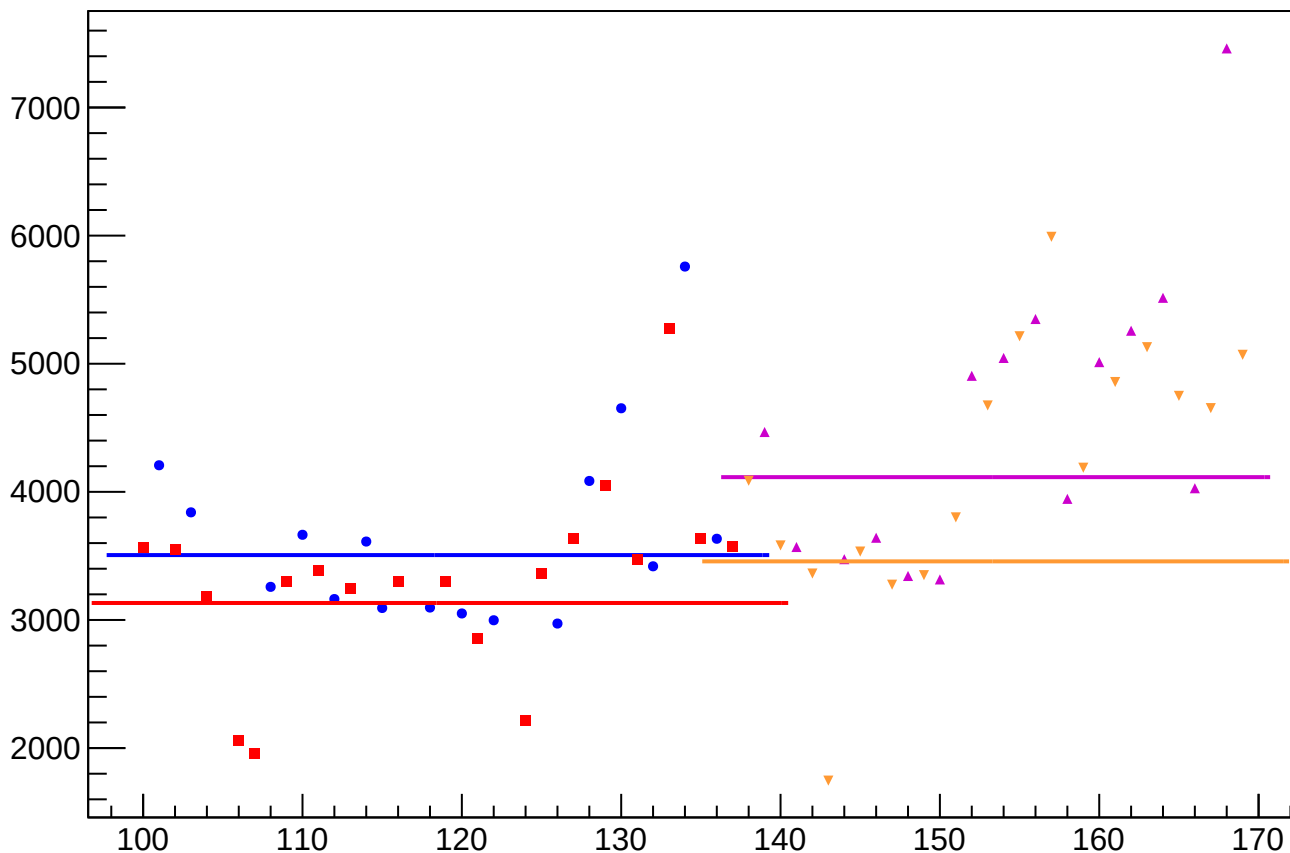
Right: 555.531+/-882.475 χ^2/NDF : 32.8/34

In: -265.921+/-888.719 χ^2/NDF :24.5/30

Out: -98.905+/-766.971 χ^2/NDF :39.2/35

All: -170.198+/-580.642 χ^2/NDF : 63.7/66

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484 $\pm$ 0.937 χ^2 /NDF: 353237.7/15

Left Out: 3457.343 $\pm$ 0.712 χ^2 /NDF: 2918548.6/16

Right Out: 3132.586 $\pm$ 0.837 χ^2 /NDF: 649611.1/18

Left In: 4114.841 $\pm$ 0.847 χ^2 /NDF: 1081884.2/14

Left: 3729.553 $\pm$ 0.545 χ^2 /NDF: 4353244.4/31

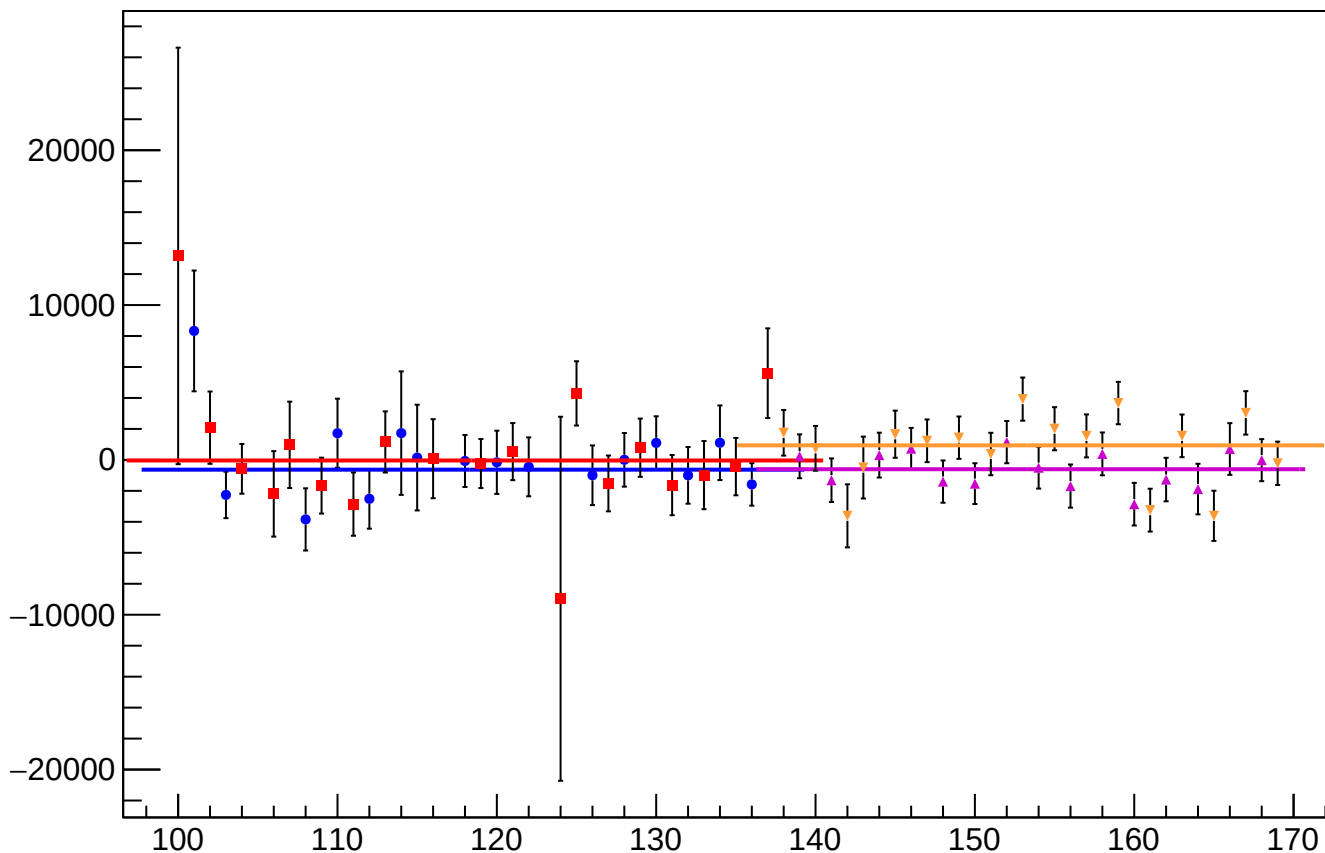
Right: 3298.485 $\pm$ 0.624 χ^2 /NDF: 1091468.2/34

In: 3841.080 $\pm$ 0.628 χ^2 /NDF: 1667071.2/30

Out: 3320.878 $\pm$ 0.542 χ^2 /NDF: 3655522.0/35

All: 3542.933 $\pm$ 0.411 χ^2 /NDF: 5715331.9/66

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -631.427+/-488.663 χ^2/NDF : 13.9/15

Left Out: 939.089+/-353.814 χ^2/NDF : 35.9/16

Right Out: -38.623+/-488.084 χ^2/NDF : 16.3/18

Left In: -602.935+/-363.027 χ^2/NDF : 9.9/14

Left: 187.893+/-253.379 χ^2/NDF : 55.1/31

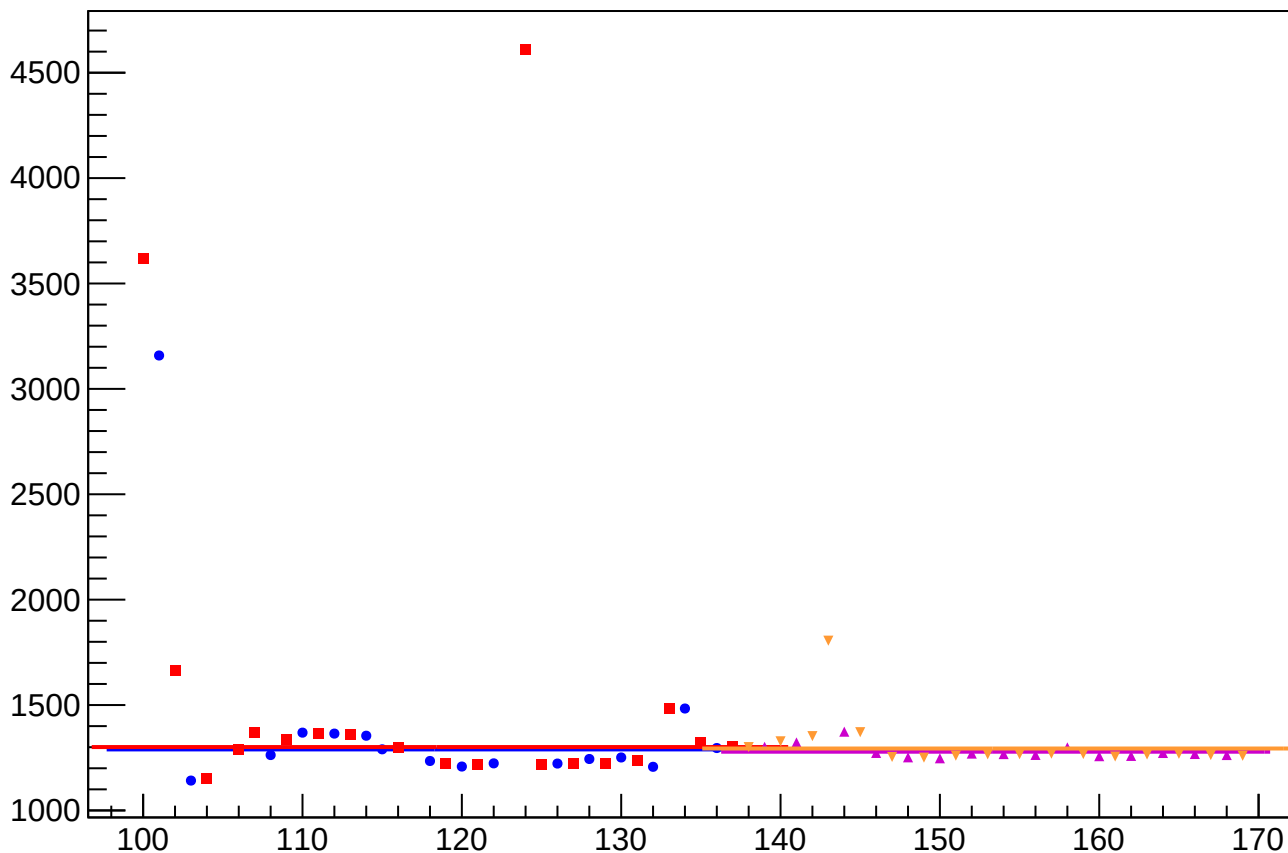
Right: -334.674+/-345.332 χ^2/NDF : 30.9/34

In: -613.067+/-291.412 χ^2/NDF : 23.8/30

Out: 602.296+/-286.465 χ^2/NDF : 54.9/35

All: 5.019+/-204.288 χ^2/NDF : 87.5/66

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1289.466+/-0.346 χ^2/NDF : 514676.5/15

Left Out: 1293.789+/-0.250 χ^2/NDF : 151885.4/16

Right Out: 1300.684+/-0.344 χ^2/NDF : 325907.6/18

Left In: 1278.611+/-0.257 χ^2/NDF : 15211.1/14

Left: 1286.395+/-0.179 χ^2/NDF : 168889.4/31

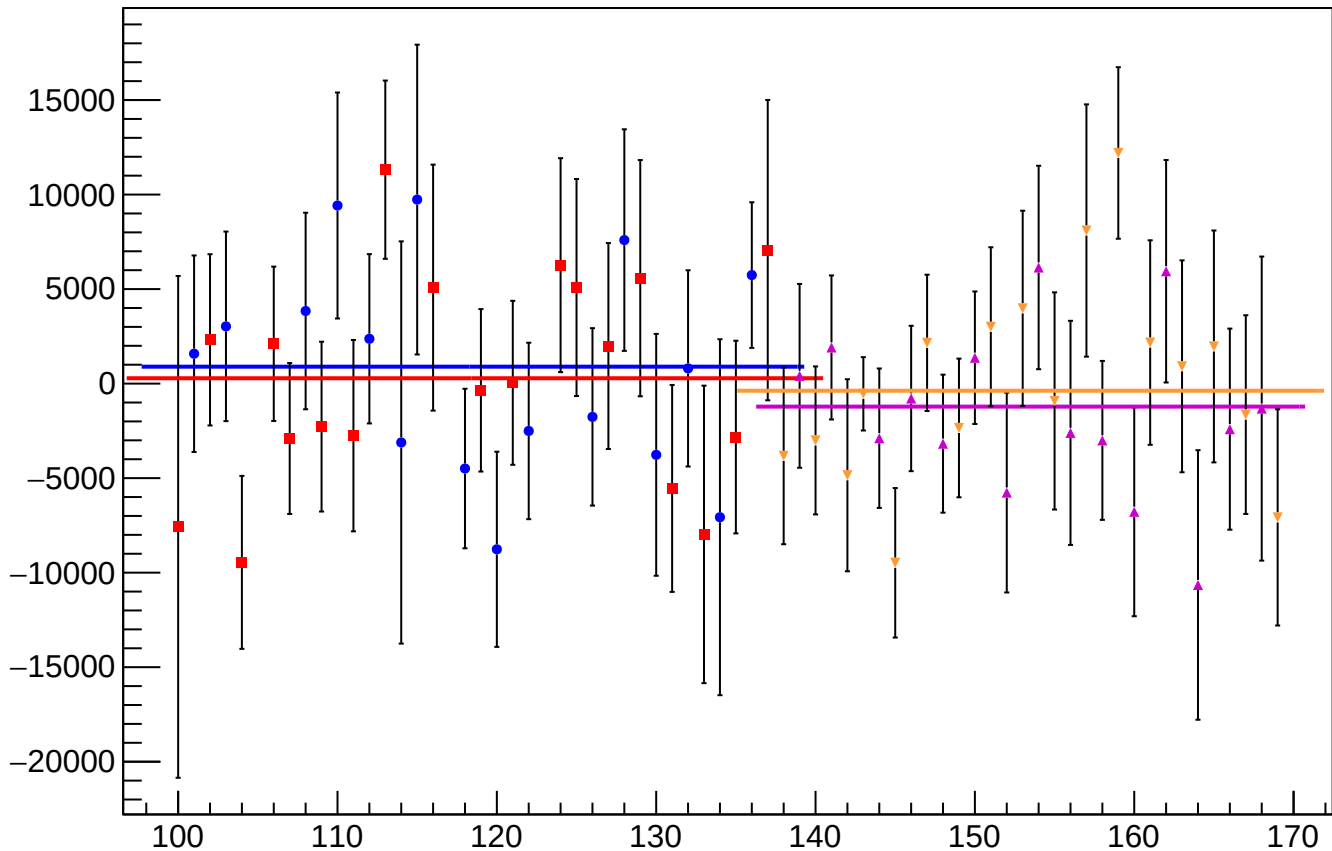
Right: 1295.092+/-0.244 χ^2/NDF : 841112.8/34

In: 1282.472+/-0.206 χ^2/NDF : 530523.5/30

Out: 1296.170+/-0.202 χ^2/NDF : 478055.3/35

All: 1289.442+/-0.144 χ^2/NDF : 1010827.7/66

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 896.017 $\pm$ 1324.823 χ^2 /NDF: 14.1/15

Left Out: -376.389 $\pm$ 1007.262 χ^2 /NDF:20.4/16

Right Out: 283.963 $\pm$ 1183.171 χ^2 /NDF: 18.6/18

Left In: -1216.598 $\pm$ 1198.348 χ^2 /NDF:9.0/14

Left: -724.243 $\pm$ 771.060 χ^2 /NDF: 29.6/31

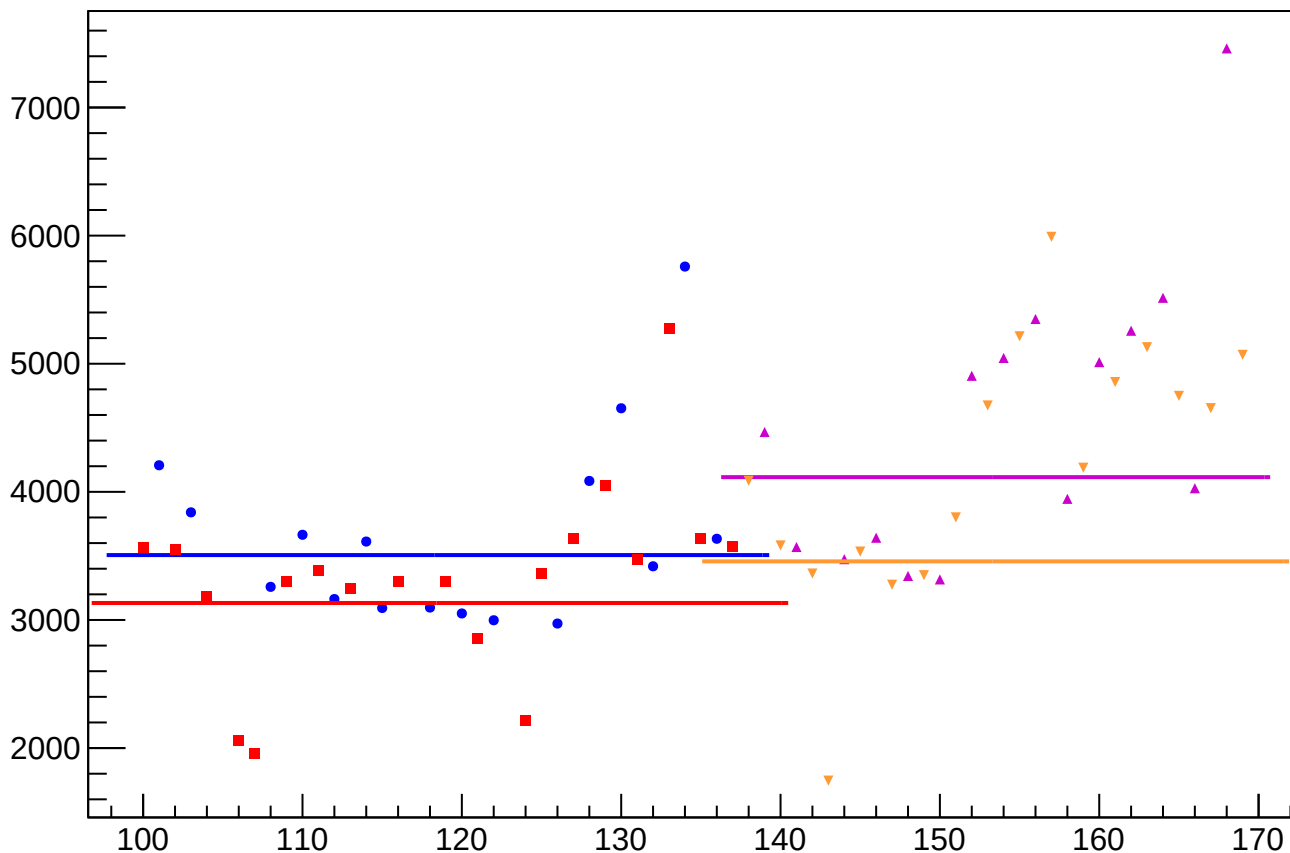
Right: 555.531 $\pm$ 882.475 χ^2 /NDF: 32.8/34

In: -265.921 $\pm$ 888.719 χ^2 /NDF:24.5/30

Out: -98.905 $\pm$ 766.971 χ^2 /NDF:39.2/35

All: -170.198 $\pm$ 580.642 χ^2 /NDF: 63.7/66

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3506.484 $\pm$ 0.937 χ^2 /NDF: 353237.7/15

Left Out: 3457.343 $\pm$ 0.712 χ^2 /NDF: 2918548.6/16

Right Out: 3132.586 $\pm$ 0.837 χ^2 /NDF: 649611.1/18

Left In: 4114.841 $\pm$ 0.847 χ^2 /NDF: 1081884.2/14

Left: 3729.553 $\pm$ 0.545 χ^2 /NDF: 4353244.4/31

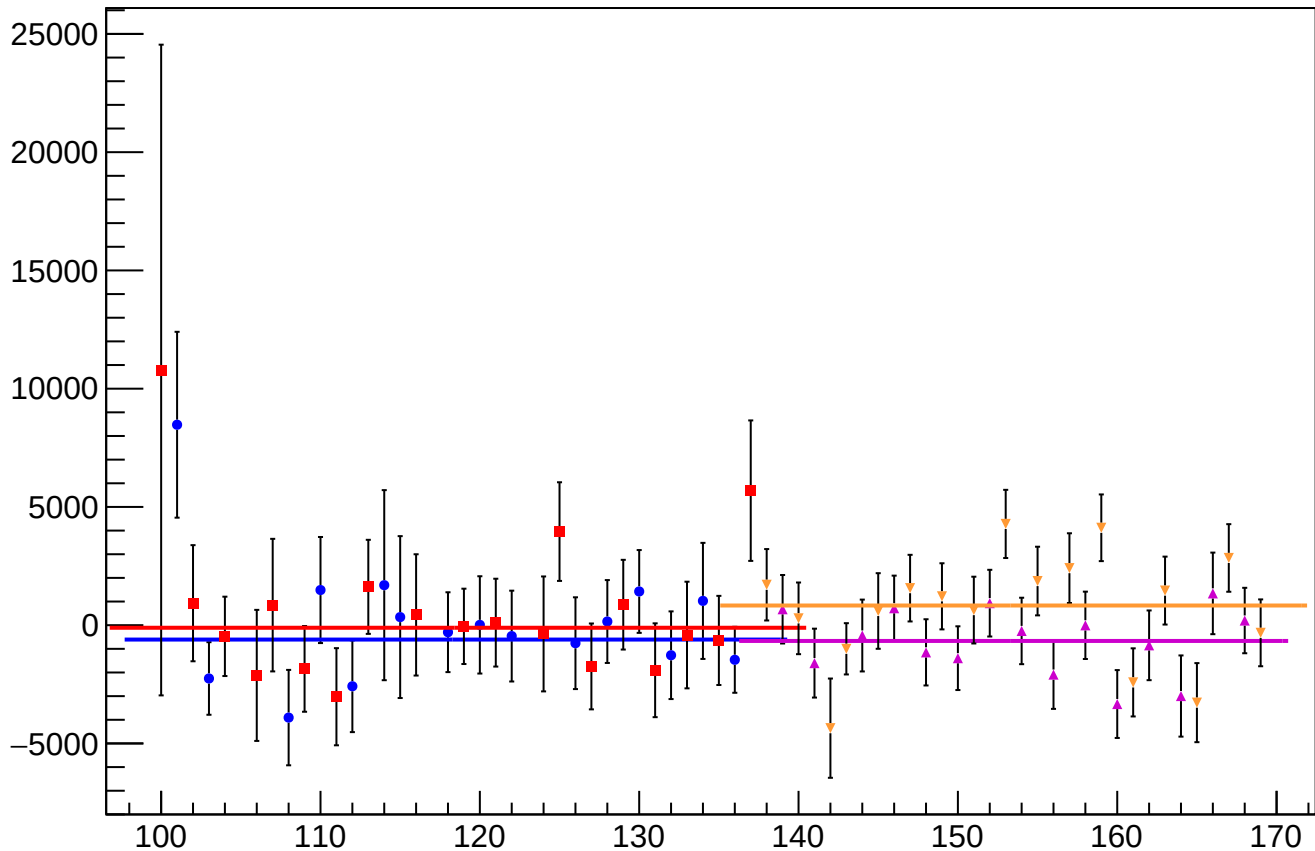
Right: 3298.485 $\pm$ 0.624 χ^2 /NDF: 1091468.2/34

In: 3841.080 $\pm$ 0.628 χ^2 /NDF: 1667071.2/30

Out: 3320.878 $\pm$ 0.542 χ^2 /NDF: 3655522.0/35

All: 3542.933 $\pm$ 0.411 χ^2 /NDF: 5715331.9/66

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -607.831 ± 494.182 $\chi^2/\text{NDF}: 14.1/15$

Left Out: 832.149 ± 351.448 $\chi^2/\text{NDF}: 36.6/16$

Right Out: -108.614 ± 485.552 $\chi^2/\text{NDF}: 14.9/18$

Left In: -666.444 ± 375.492 $\chi^2/\text{NDF}: 12.3/14$

Left: 132.367 ± 256.591 $\chi^2/\text{NDF}: 57.4/31$

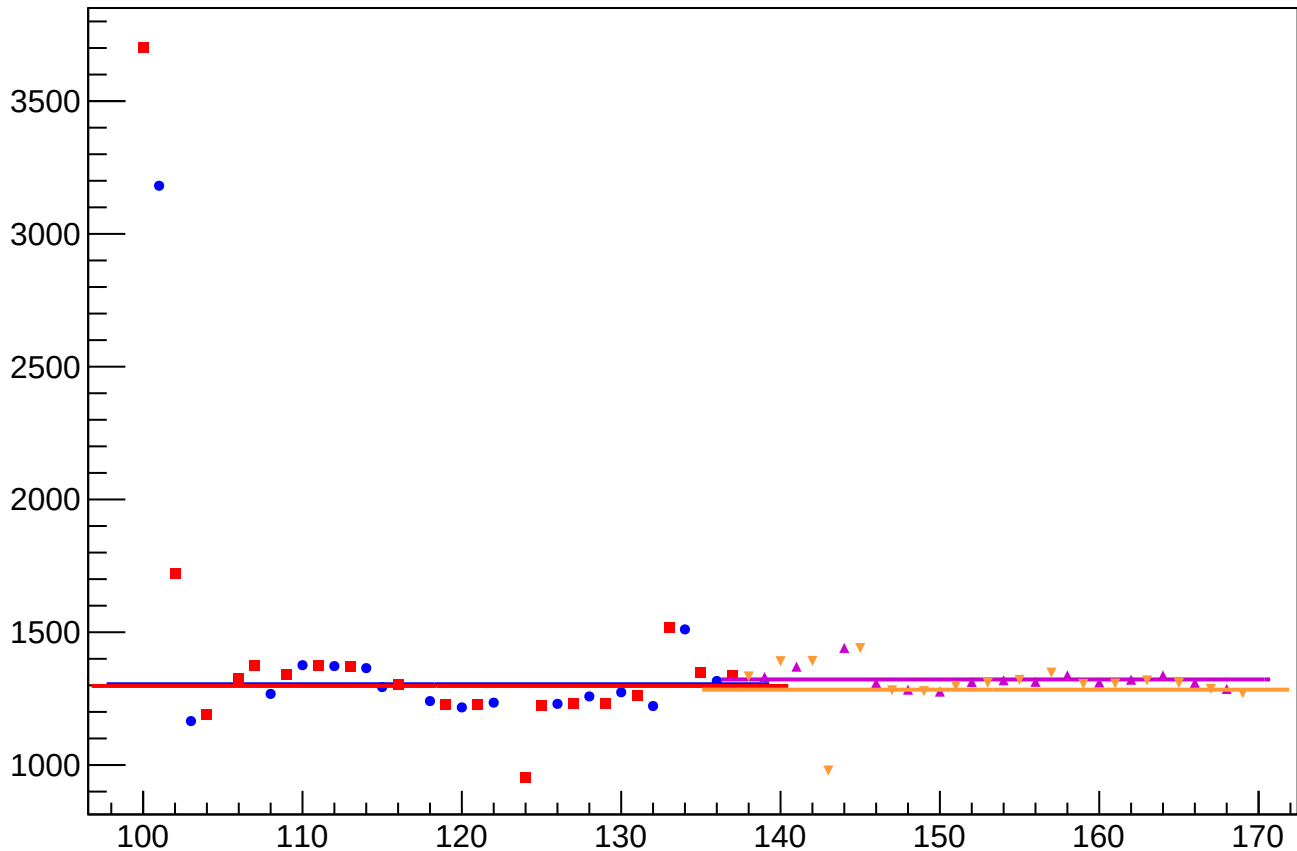
Right: -353.826 ± 346.348 $\chi^2/\text{NDF}: 29.5/34$

In: -644.990 ± 298.978 $\chi^2/\text{NDF}: 26.4/30$

Out: 508.725 ± 284.697 $\chi^2/\text{NDF}: 53.9/35$

All: -39.921 ± 206.175 $\chi^2/\text{NDF}: 88.2/66$

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1304.102 $\pm$ 0.349 χ^2 /NDF: 510589.4/15

Left Out: 1283.747 $\pm$ 0.249 χ^2 /NDF: 203238.3/16

Right Out: 1297.796 $\pm$ 0.343 χ^2 /NDF: 213096.9/18

Left In: 1322.253 $\pm$ 0.266 χ^2 /NDF: 20620.9/14

Left: 1301.728 $\pm$ 0.181 χ^2 /NDF: 235070.5/31

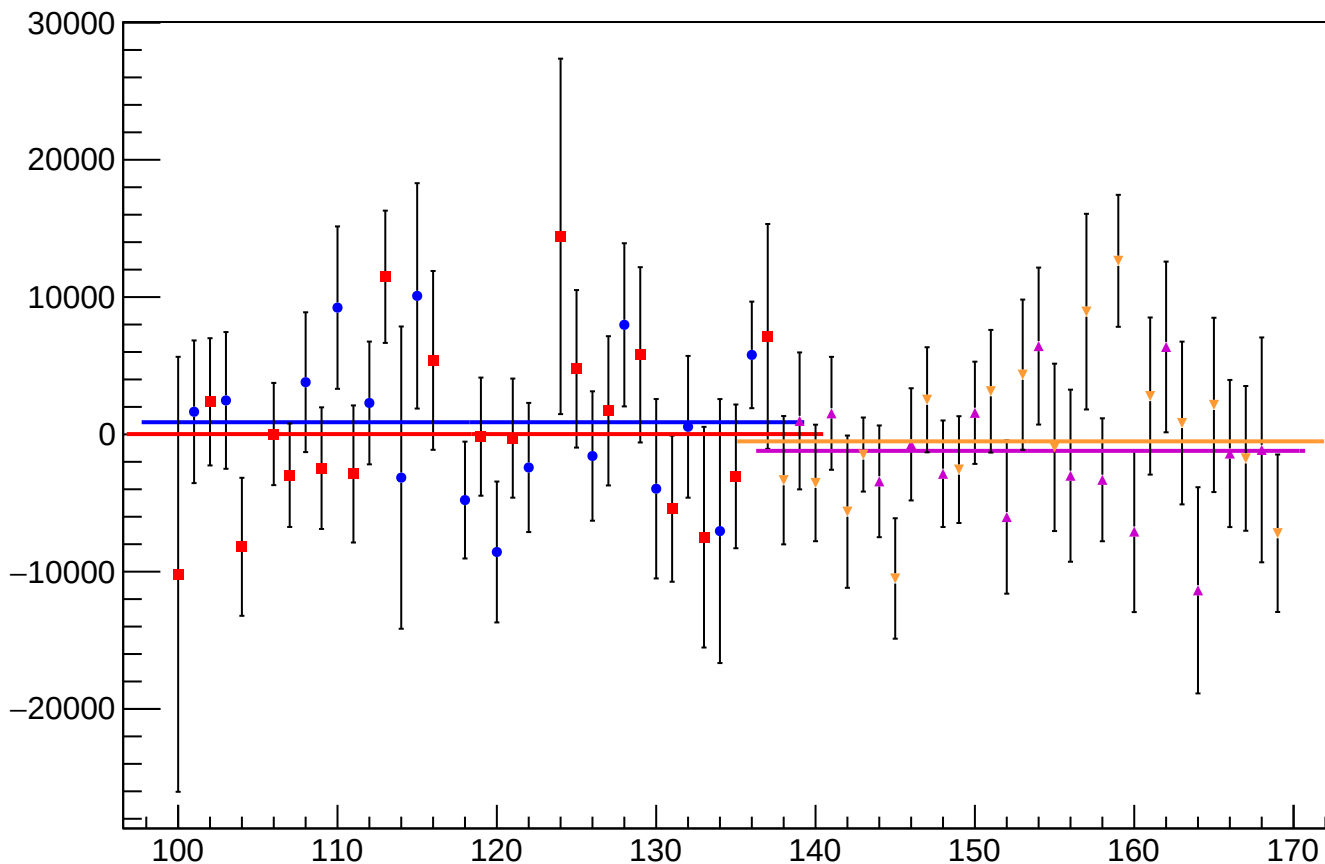
Right: 1300.891 $\pm$ 0.245 χ^2 /NDF: 723852.1/34

In: 1315.609 $\pm$ 0.211 χ^2 /NDF: 532920.8/30

Out: 1288.581 $\pm$ 0.201 χ^2 /NDF: 417435.1/35

All: 1301.431 $\pm$ 0.146 χ^2 /NDF: 958930.1/66

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.058 ± 1327.399 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -508.088 ± 1131.417 $\chi^2/\text{NDF}: 20.6/16$

Right Out: 20.681 ± 1200.015 $\chi^2/\text{NDF}: 16.8/18$

Left In: -1201.301 ± 1271.509 $\chi^2/\text{NDF}: 8.8/14$

Left: -814.417 ± 845.240 $\chi^2/\text{NDF}: 29.6/31$

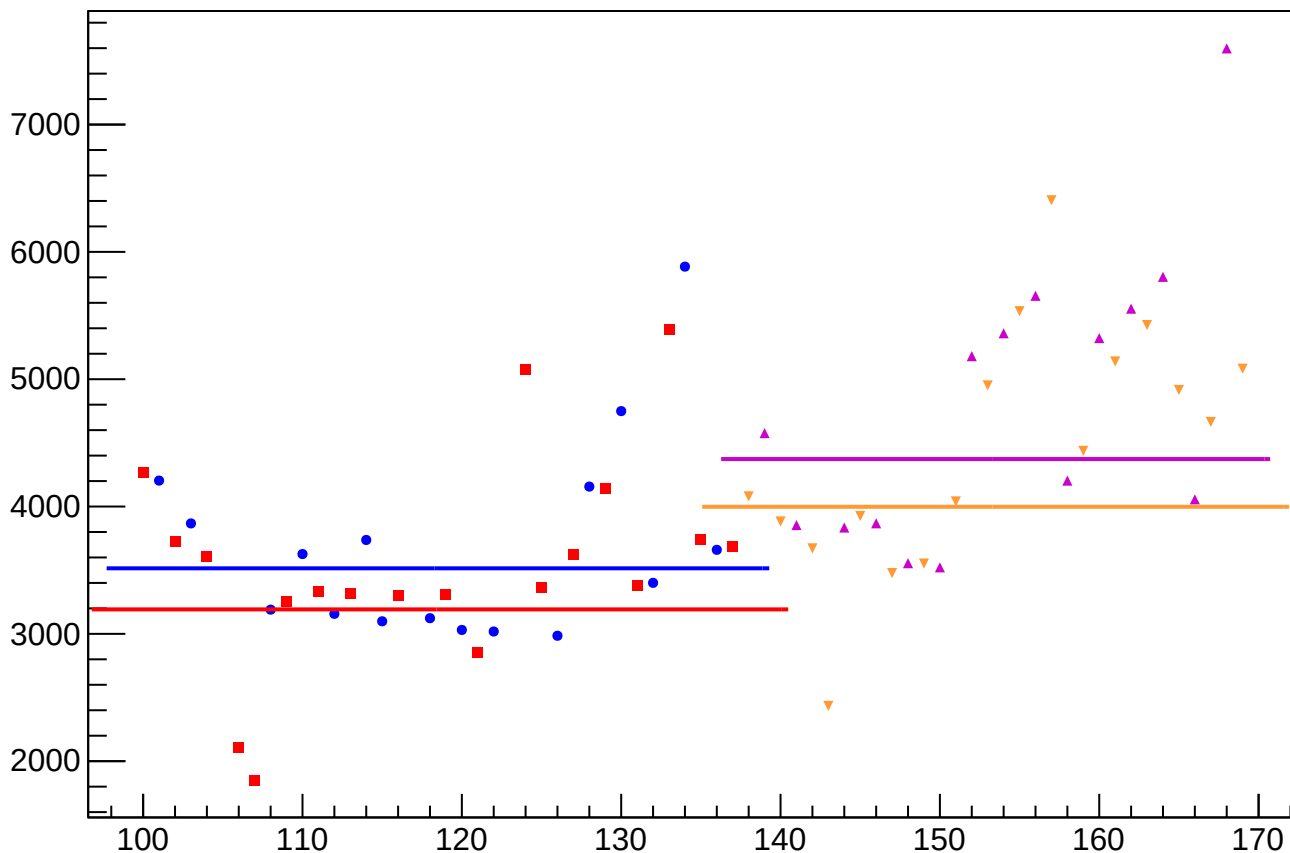
Right: 408.965 ± 890.176 $\chi^2/\text{NDF}: 31.2/34$

In: -203.447 ± 918.215 $\chi^2/\text{NDF}: 24.2/30$

Out: -259.248 ± 823.216 $\chi^2/\text{NDF}: 37.6/35$

All: -234.383 ± 612.945 $\chi^2/\text{NDF}: 61.8/66$

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.746 $\pm$ 0.939 χ^2 /NDF: 375078.6/15

Left Out: 3997.981 $\pm$ 0.800 χ^2 /NDF: 1518888.0/16

Right Out: 3192.203 $\pm$ 0.849 χ^2 /NDF: 772495.7/18

Left In: 4373.056 $\pm$ 0.899 χ^2 /NDF: 996365.1/14

Left: 4163.725 $\pm$ 0.598 χ^2 /NDF: 2612381.0/31

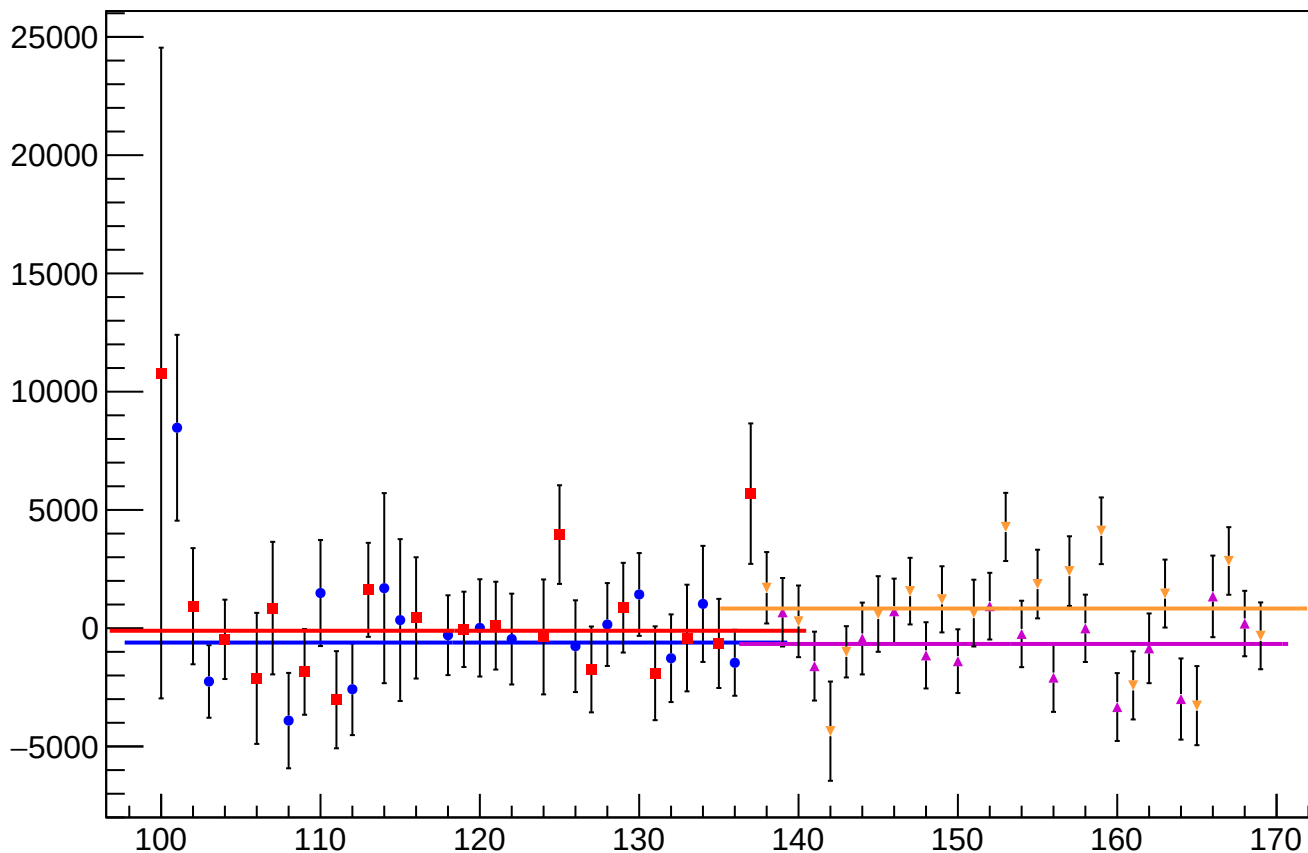
Right: 3337.259 $\pm$ 0.629 χ^2 /NDF: 1212554.2/34

In: 3962.351 $\pm$ 0.649 χ^2 /NDF: 1807524.1/30

Out: 3618.780 $\pm$ 0.582 χ^2 /NDF: 2768768.6/35

All: 3771.878 $\pm$ 0.433 χ^2 /NDF: 4731527.5/66

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -607.834+/-494.182 χ^2/NDF : 14.1/15

Left Out: 832.154+/-351.448 χ^2/NDF : 36.6/16

Right Out: -108.619+/-485.553 χ^2/NDF : 14.9/18

Left In: -666.445+/-375.493 χ^2/NDF : 12.3/14

Left: 132.369+/-256.591 χ^2/NDF : 57.4/31

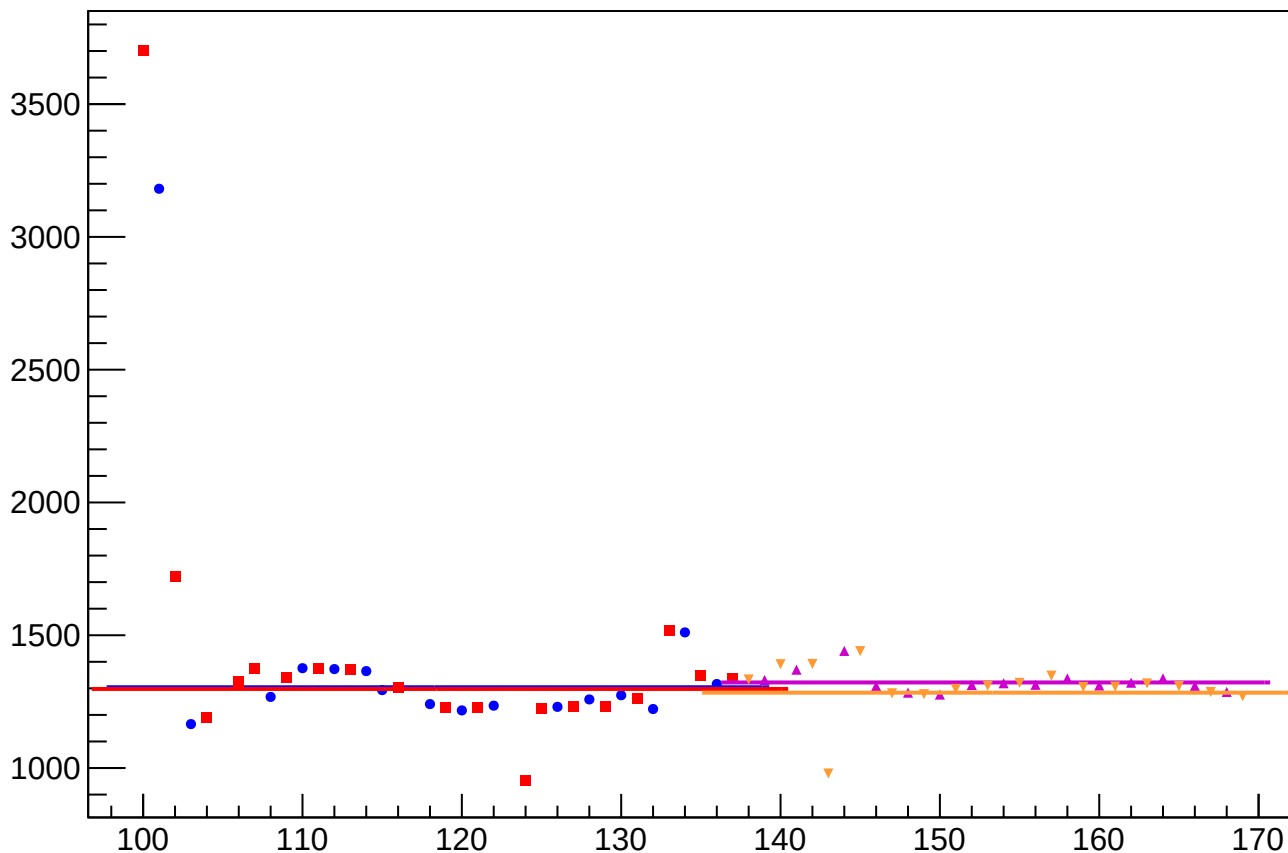
Right: -353.830+/-346.348 χ^2/NDF : 29.5/34

In: -644.992+/-298.978 χ^2/NDF : 26.4/30

Out: 508.726+/-284.697 χ^2/NDF : 53.9/35

All: -39.921+/-206.175 χ^2/NDF : 88.2/66

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 1304.102 $\pm$ 0.349 χ^2 /NDF: 510589.6/15

Left Out: 1283.748 $\pm$ 0.249 χ^2 /NDF: 203239.1/16

Right Out: 1297.796 $\pm$ 0.343 χ^2 /NDF: 213097.0/18

Left In: 1322.254 $\pm$ 0.266 χ^2 /NDF: 20621.1/14

Left: 1301.729 $\pm$ 0.181 χ^2 /NDF: 235071.4/31

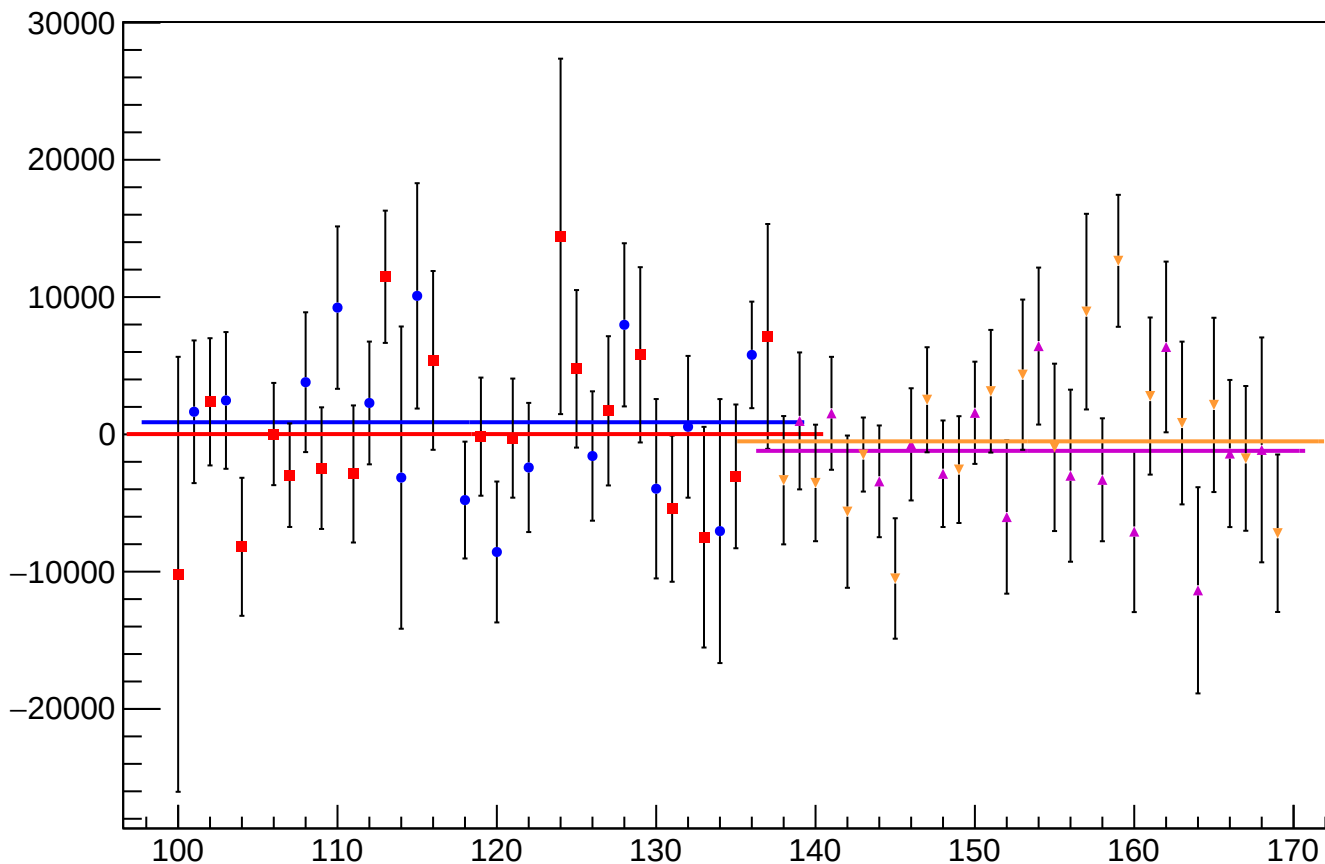
Right: 1300.891 $\pm$ 0.245 χ^2 /NDF: 723852.4/34

In: 1315.610 $\pm$ 0.211 χ^2 /NDF: 532921.4/30

Out: 1288.582 $\pm$ 0.201 χ^2 /NDF: 417435.7/35

All: 1301.432 $\pm$ 0.146 χ^2 /NDF: 958931.4/66

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 884.047 ± 1327.396 $\chi^2/\text{NDF}: 14.1/15$

Left Out: -508.085 ± 1131.418 $\chi^2/\text{NDF}: 20.6/16$

Right Out: 20.677 ± 1200.012 $\chi^2/\text{NDF}: 16.8/18$

Left In: -1201.300 ± 1271.511 $\chi^2/\text{NDF}: 8.8/14$

Left: -814.415 ± 845.241 $\chi^2/\text{NDF}: 29.6/31$

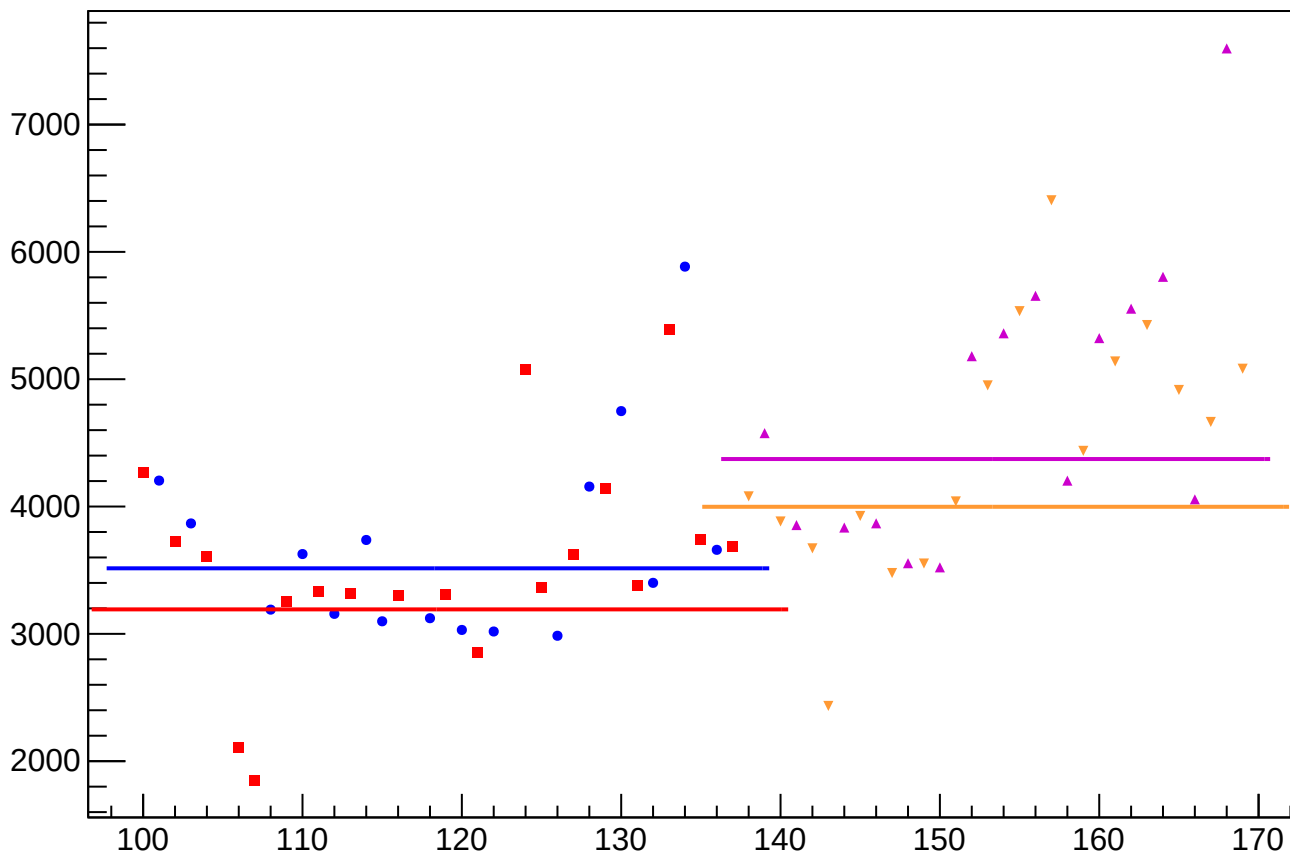
Right: 408.958 ± 890.174 $\chi^2/\text{NDF}: 31.2/34$

In: -203.448 ± 918.215 $\chi^2/\text{NDF}: 24.2/30$

Out: -259.247 ± 823.215 $\chi^2/\text{NDF}: 37.6/35$

All: -234.383 ± 612.945 $\chi^2/\text{NDF}: 61.8/66$

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3514.737+/-0.939 χ^2/NDF : 375082.8/15

Left Out: 3997.986+/-0.800 χ^2/NDF : 1518889.2/16

Right Out: 3192.196+/-0.849 χ^2/NDF : 772497.9/18

Left In: 4373.063+/-0.899 χ^2/NDF : 996366.9/14

Left: 4163.731+/-0.598 χ^2/NDF : 2612384.0/31

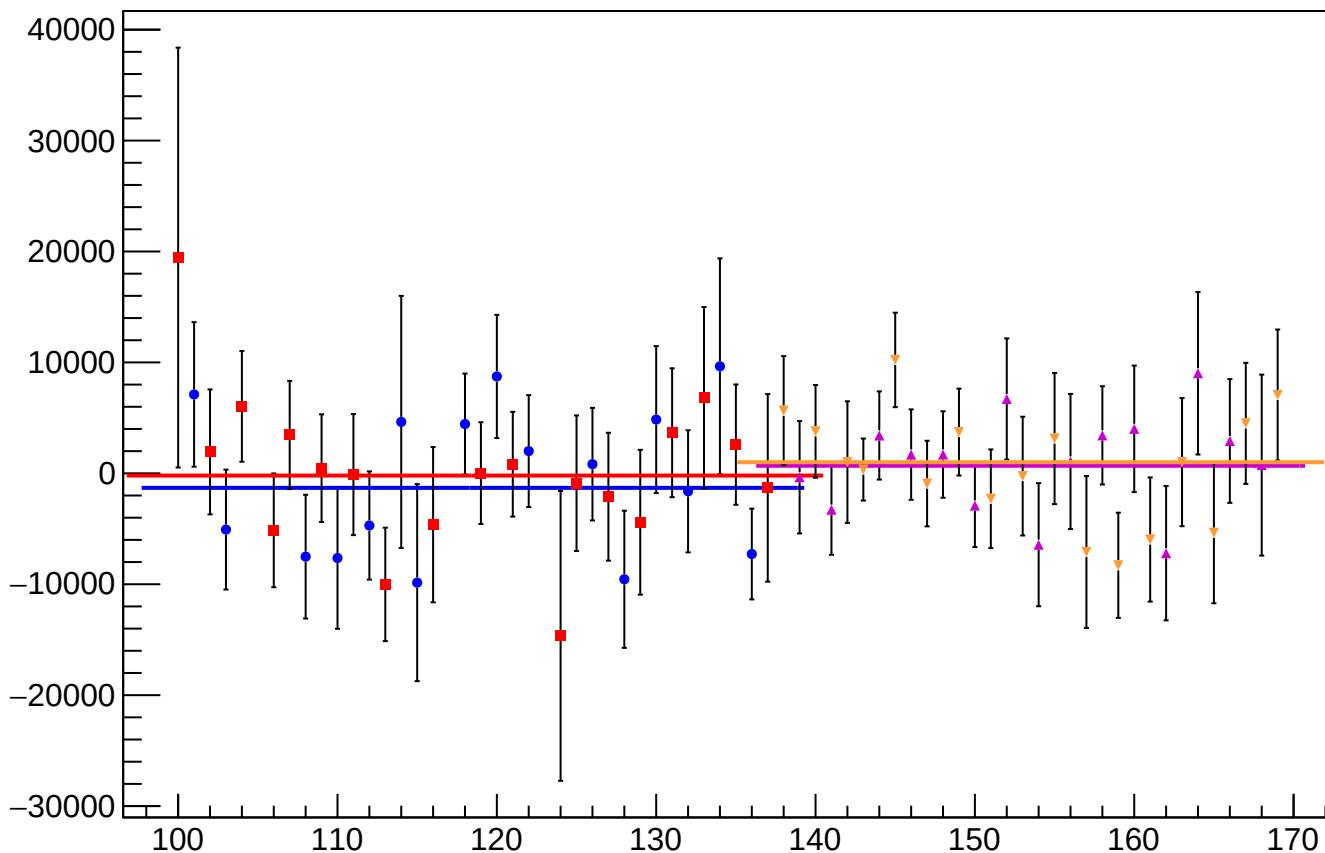
Right: 3337.251+/-0.629 χ^2/NDF : 1212560.4/34

In: 3962.348+/-0.649 χ^2/NDF : 1807546.3/30

Out: 3618.778+/-0.582 χ^2/NDF : 2768788.6/35

All: 3771.876+/-0.433 χ^2/NDF : 4731569.3/66

asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected



Right In: -1309.349+/-1431.624 χ^2/NDF : 17.6/15

Left Out: 1002.840+/-1135.187 χ^2/NDF : 16.8/16

Right Out: -201.593+/-1336.062 χ^2/NDF : 11.6/18

Left In: 683.377+/-1262.237 χ^2/NDF : 9.2/14

Left: 859.991+/-844.052 χ^2/NDF : 26.1/31

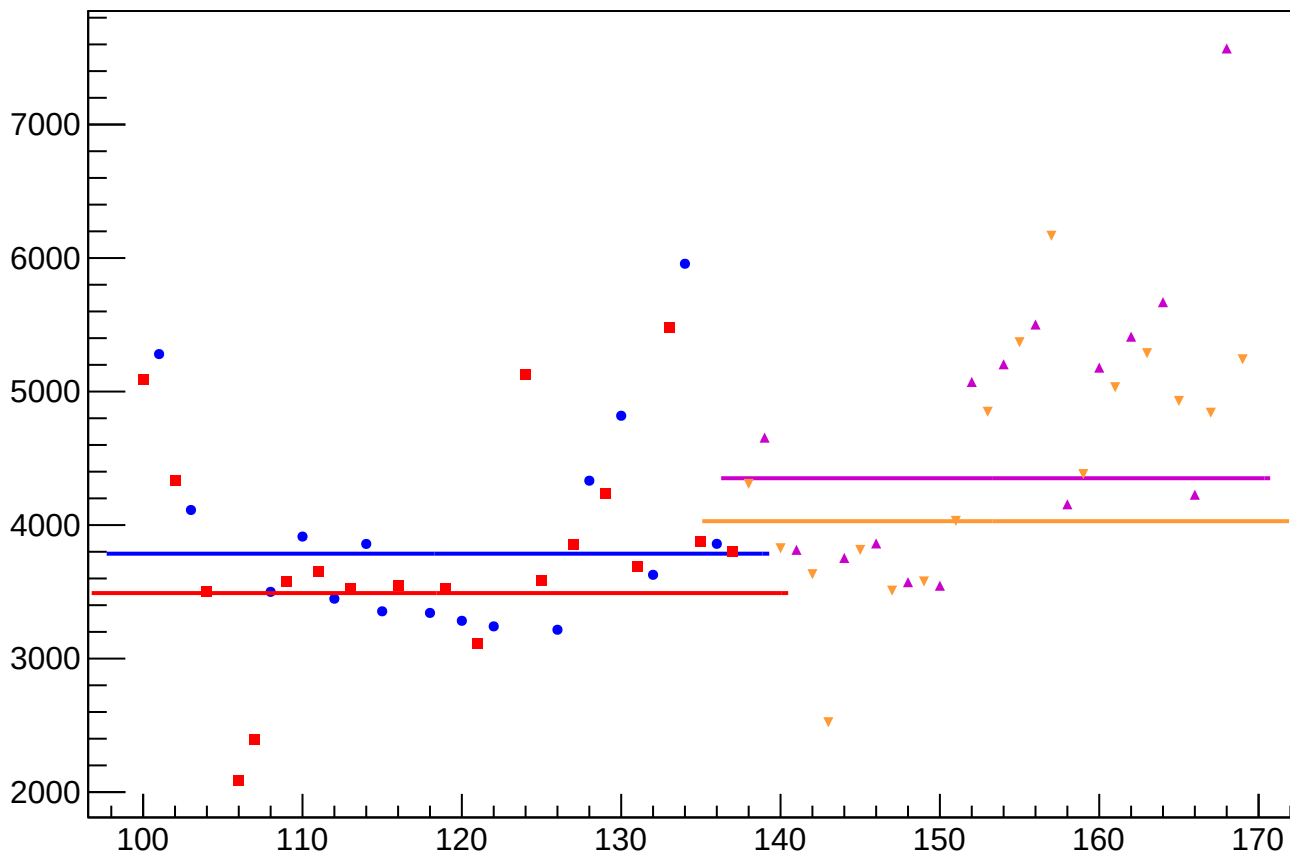
Right: -717.269+/-976.776 χ^2/NDF : 29.5/34

In: -188.179+/-946.788 χ^2/NDF : 27.9/30

Out: 497.883+/-865.092 χ^2/NDF : 28.9/35

All: 185.723+/-638.645 χ^2/NDF : 57.1/66

asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected



Right In: 3785.774+/-1.012 χ^2/NDF : 382992.9/15

Left Out: 4029.140+/-0.803 χ^2/NDF : 1353686.2/16

Right Out: 3490.614+/-0.932 χ^2/NDF : 586715.1/18

Left In: 4350.869+/-0.893 χ^2/NDF : 926013.3/14

Left: 4173.002+/-0.597 χ^2/NDF : 2351534.0/31

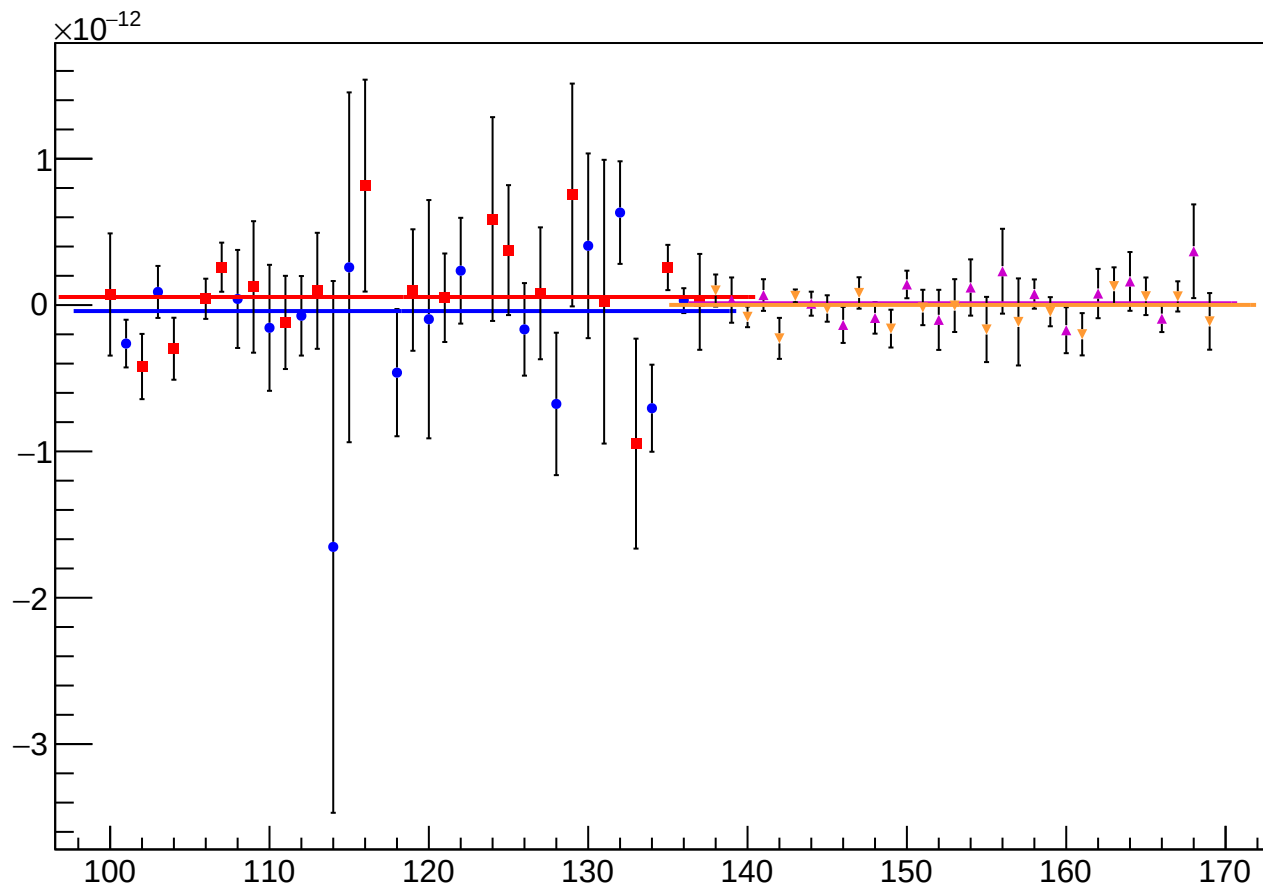
Right: 3626.002+/-0.686 χ^2/NDF : 1015727.1/34

In: 4103.711+/-0.669 χ^2/NDF : 1484331.0/30

Out: 3799.756+/-0.608 χ^2/NDF : 2132120.1/35

All: 3937.183+/-0.450 χ^2/NDF : 3729385.4/66

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 16.6/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 13.7/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 15.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 10.7/14

Left: 0.000 ± 0.000 χ^2/NDF : 24.5/31

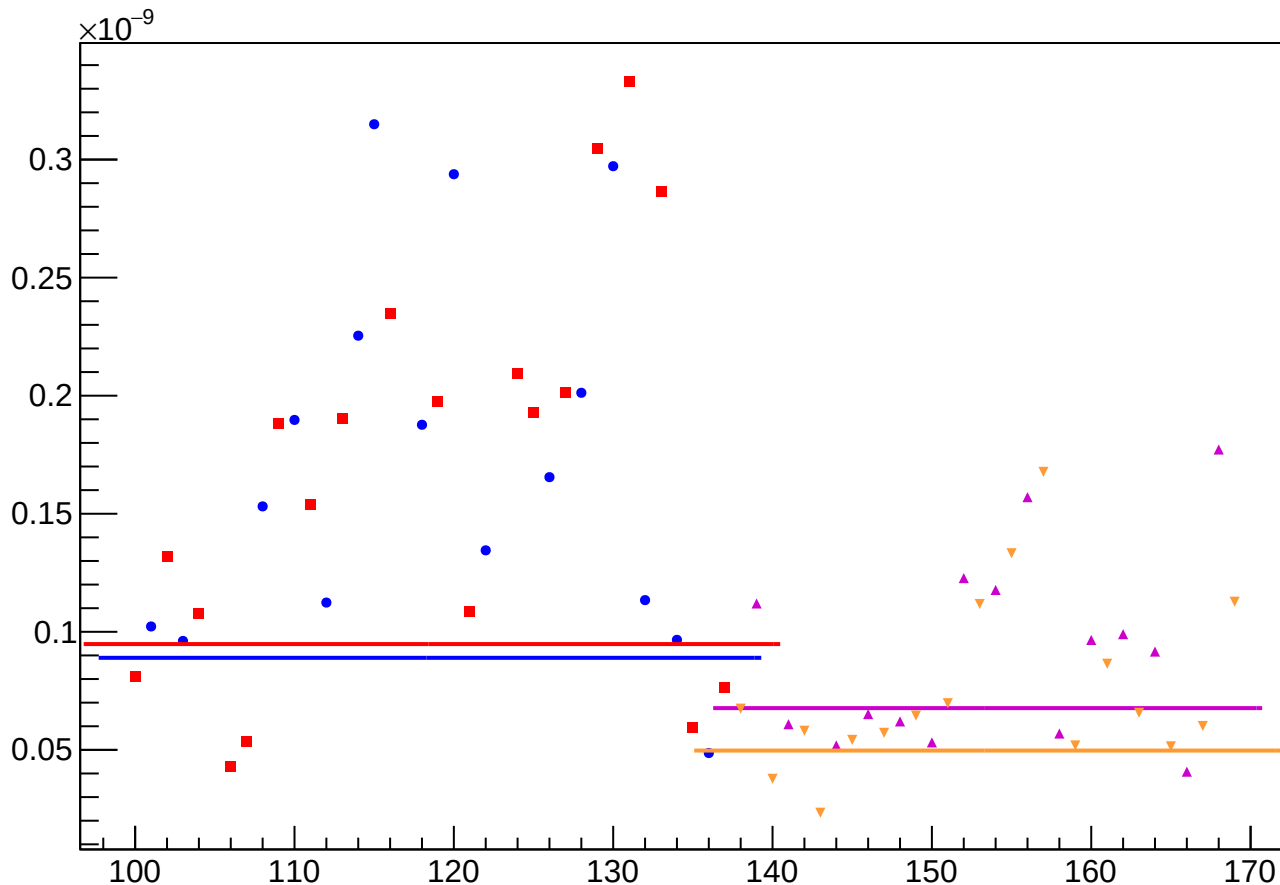
Right: 0.000 ± 0.000 χ^2/NDF : 33.7/34

In: -0.000 ± 0.000 χ^2/NDF : 28.0/30

Out: 0.000 ± 0.000 χ^2/NDF : 30.2/35

All: 0.000 ± 0.000 χ^2/NDF : 58.2/66

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1460718.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :2157329.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1734601.4/18

Left In: 0.000+/-0.000 χ^2/NDF :1364563.6/14

Left: 0.000+/-0.000 χ^2/NDF : 3906551.1/31

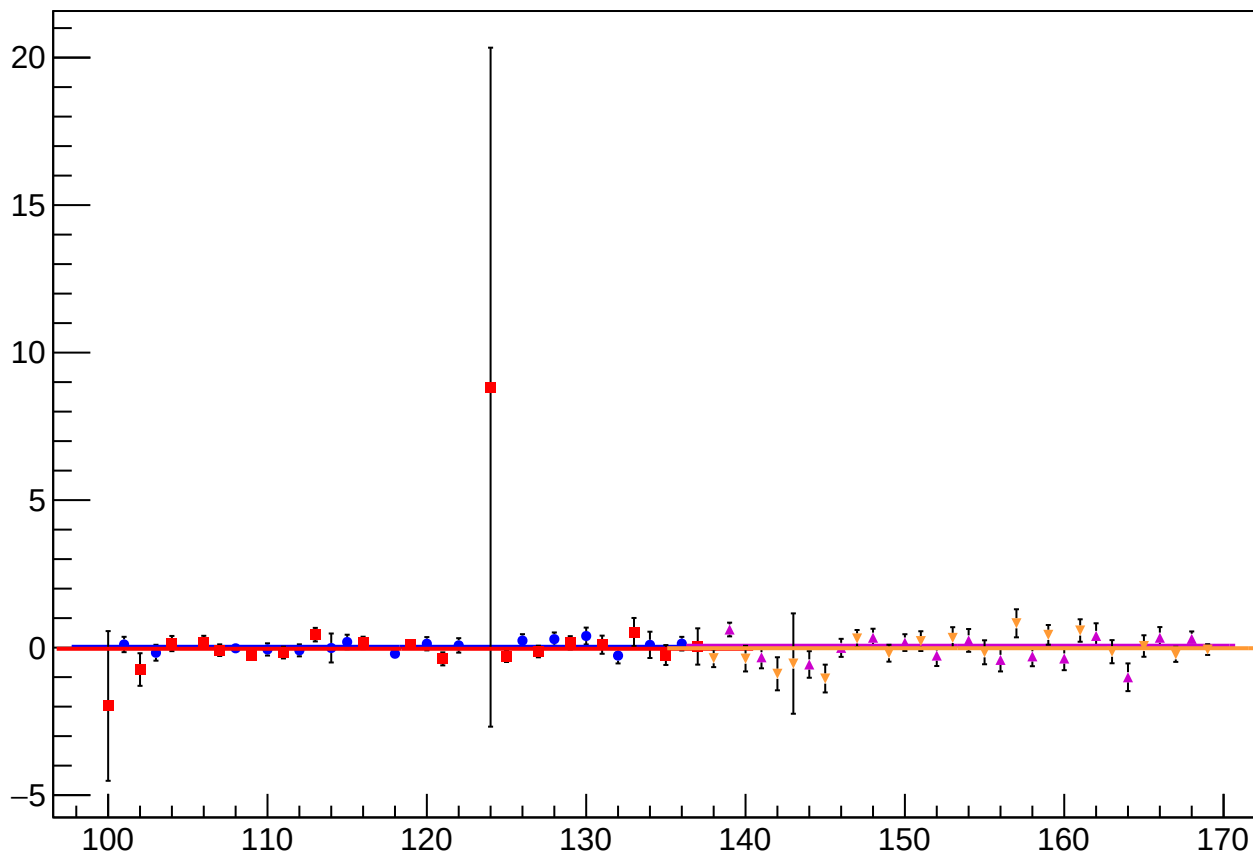
Right: 0.000+/-0.000 χ^2/NDF : 3204262.4/34

In: 0.000+/-0.000 χ^2/NDF :3024684.6/30

Out: 0.000+/-0.000 χ^2/NDF :4757392.1/35

All: 0.000+/-0.000 χ^2/NDF : 8217733.0/66

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.021 $\pm$ 0.081 χ^2 /NDF:20.7/16

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.064 $\pm$ 0.086 χ^2 /NDF:21.8/14

Left: 0.019 $\pm$ 0.059 χ^2 /NDF: 43.1/31

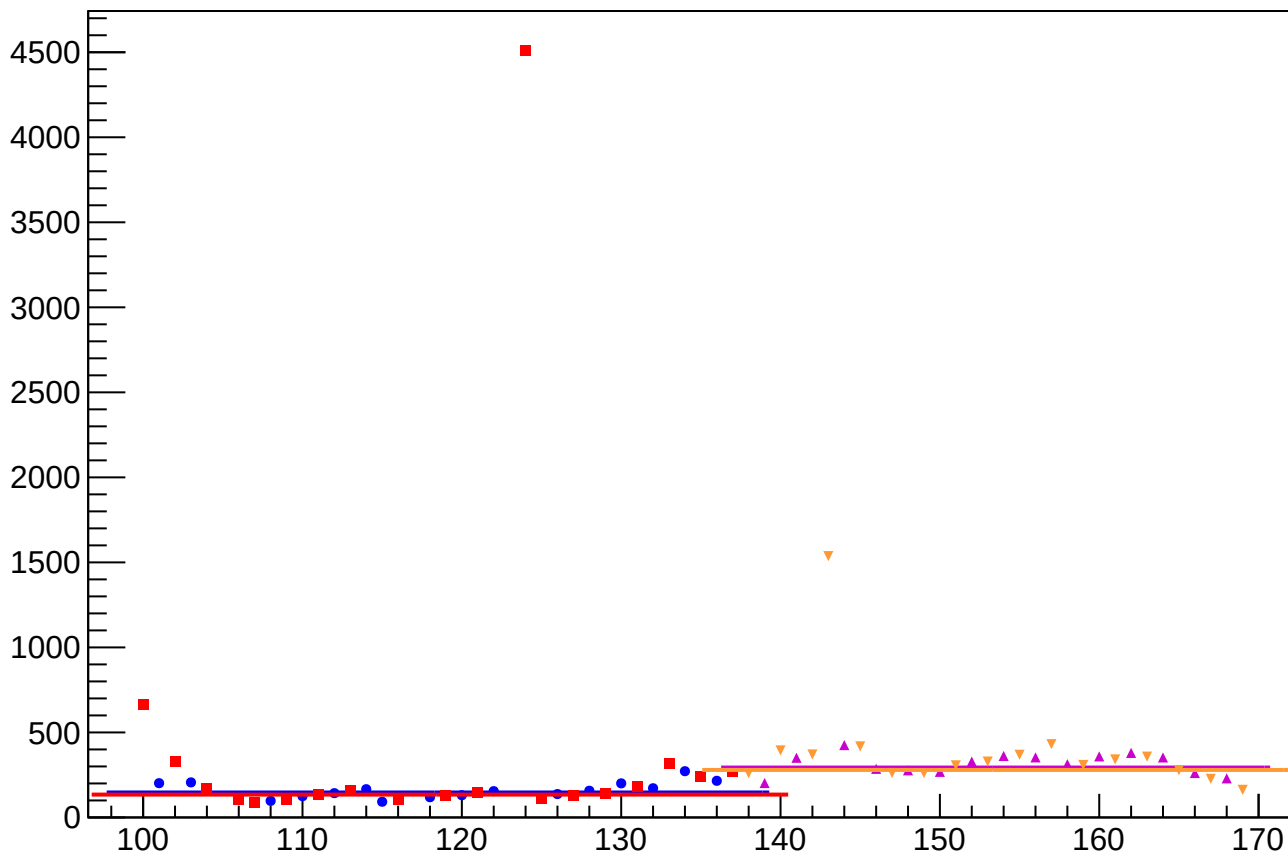
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.039 $\pm$ 0.048 χ^2 /NDF:31.4/30

Out: -0.033 $\pm$ 0.045 χ^2 /NDF:40.7/35

All: 0.001 $\pm$ 0.033 χ^2 /NDF: 73.4/66

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 279.404+/-0.058 χ^2/NDF : 2889224.6/16

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 293.553+/-0.061 χ^2/NDF : 996096.2/14

Left: 286.077+/-0.042 χ^2/NDF : 3913810.3/31

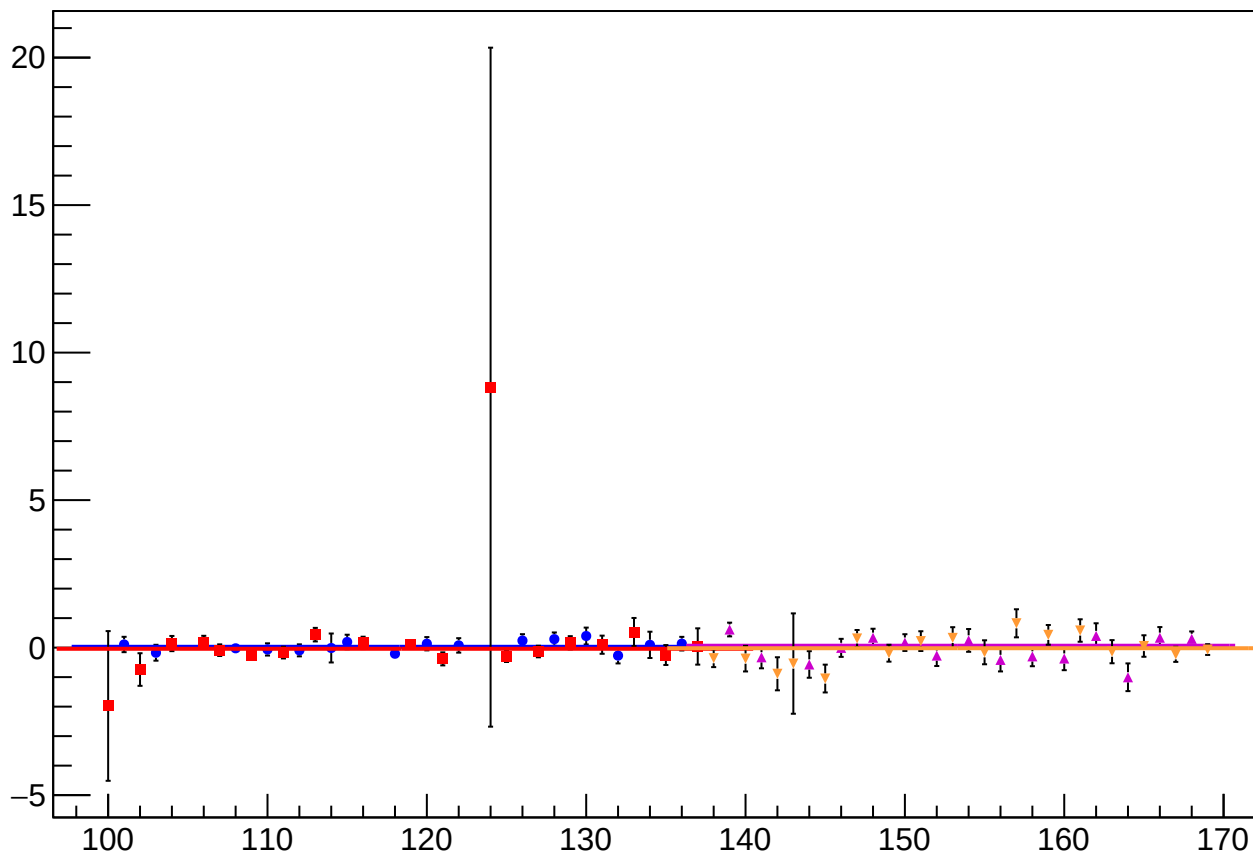
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 192.252+/-0.034 χ^2/NDF : 5998144.8/30

Out: 179.658+/-0.032 χ^2/NDF : 8856368.8/35

All: 185.619+/-0.023 χ^2/NDF : 14927195.3/66

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 χ^2/NDF : 9.4/15

Left Out: -0.021 ± 0.081 χ^2/NDF : 20.7/16

Right Out: -0.039 ± 0.055 χ^2/NDF : 20.0/18

Left In: 0.064 ± 0.086 χ^2/NDF : 21.8/14

Left: 0.019 ± 0.059 χ^2/NDF : 43.1/31

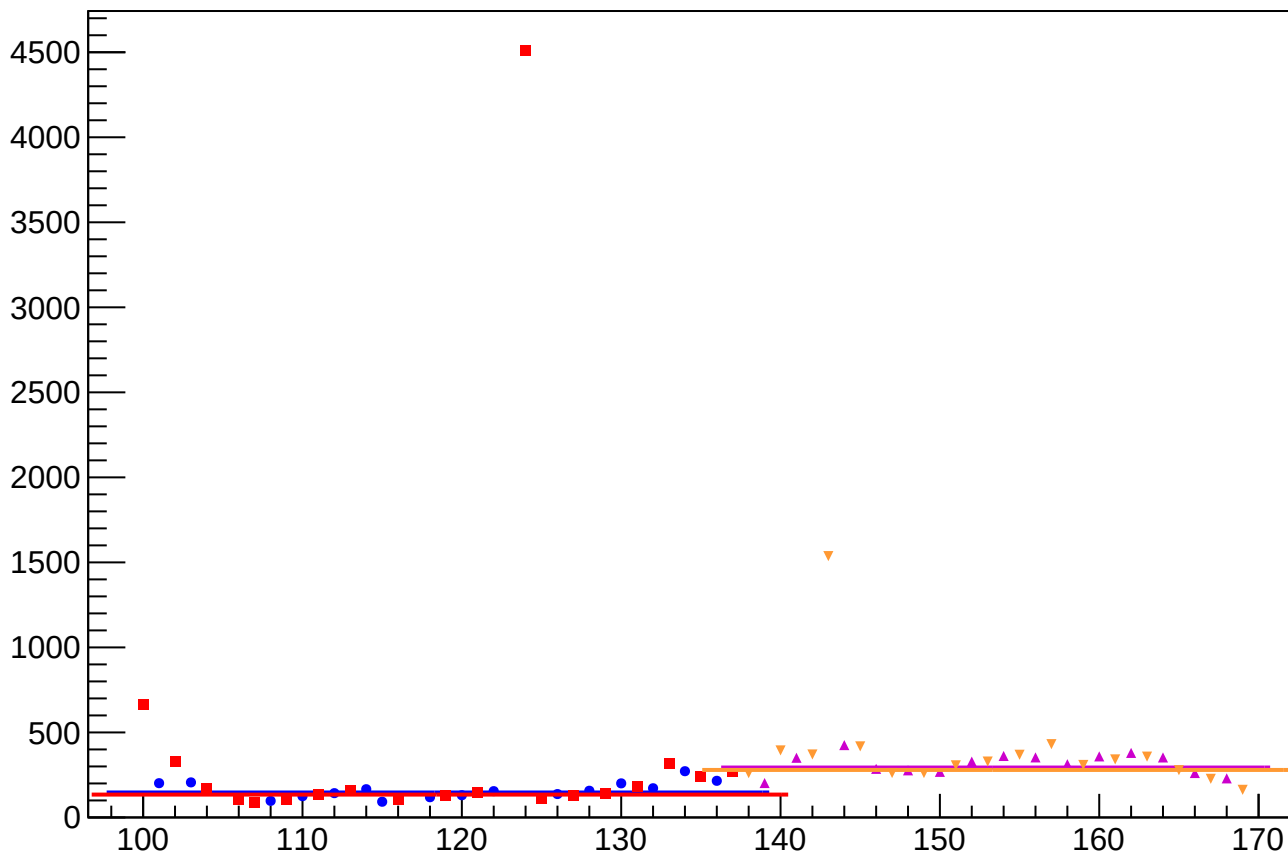
Right: -0.007 ± 0.040 χ^2/NDF : 30.2/34

In: 0.039 ± 0.048 χ^2/NDF : 31.4/30

Out: -0.033 ± 0.045 χ^2/NDF : 40.7/35

All: 0.001 ± 0.033 χ^2/NDF : 73.4/66

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998704.7/15

Left Out: 279.404+/-0.058 χ^2/NDF : 2889224.6/16

Right Out: 134.505+/-0.039 χ^2/NDF : 1606383.2/18

Left In: 293.553+/-0.061 χ^2/NDF : 996096.2/14

Left: 286.077+/-0.042 χ^2/NDF : 3913810.3/31

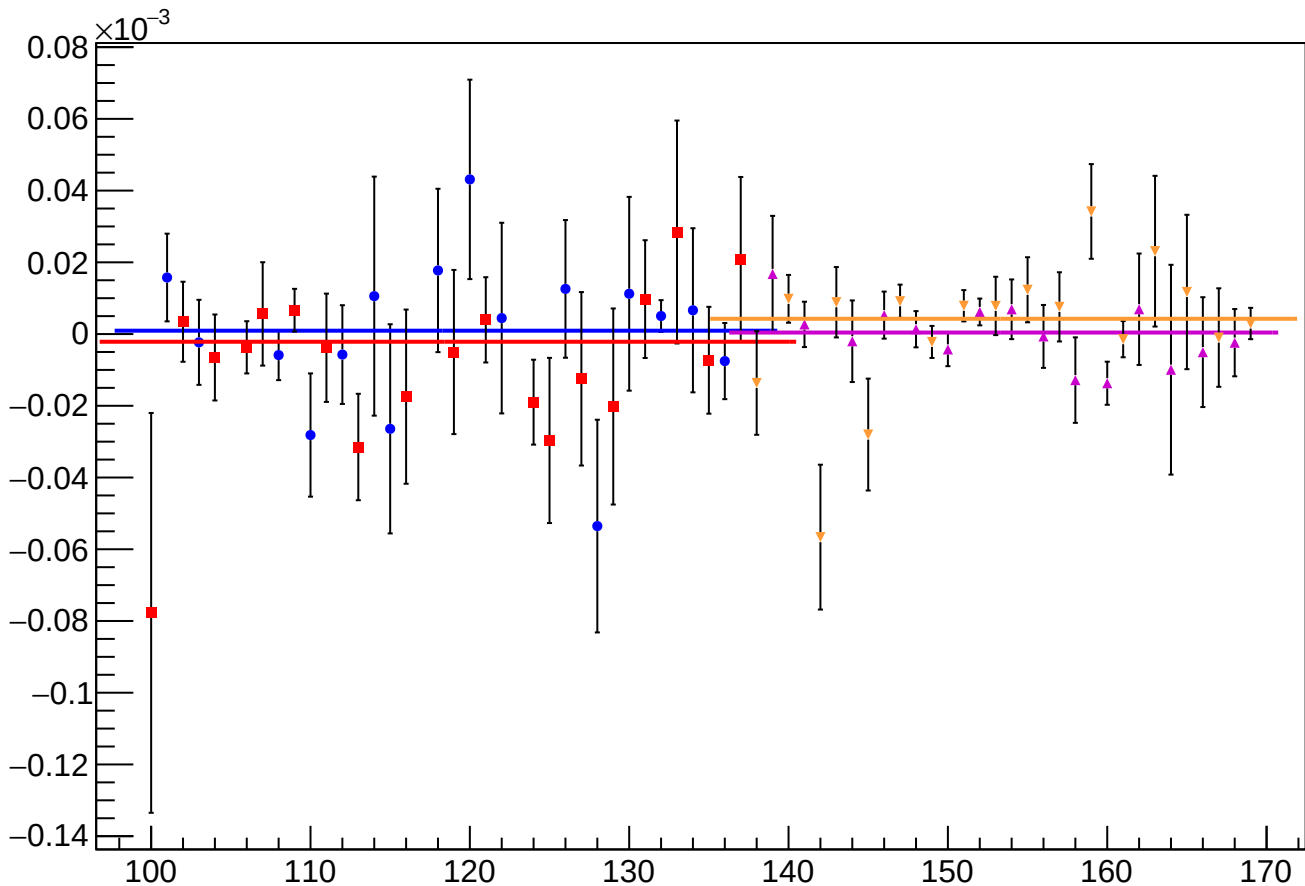
Right: 140.347+/-0.028 χ^2/NDF : 2653079.7/34

In: 192.252+/-0.034 χ^2/NDF : 5998144.8/30

Out: 179.658+/-0.032 χ^2/NDF : 8856368.8/35

All: 185.619+/-0.023 χ^2/NDF : 14927195.3/66

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 14.9/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 28.4/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 16.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 13.1/14

Left: 0.000 ± 0.000 χ^2/NDF : 43.8/31

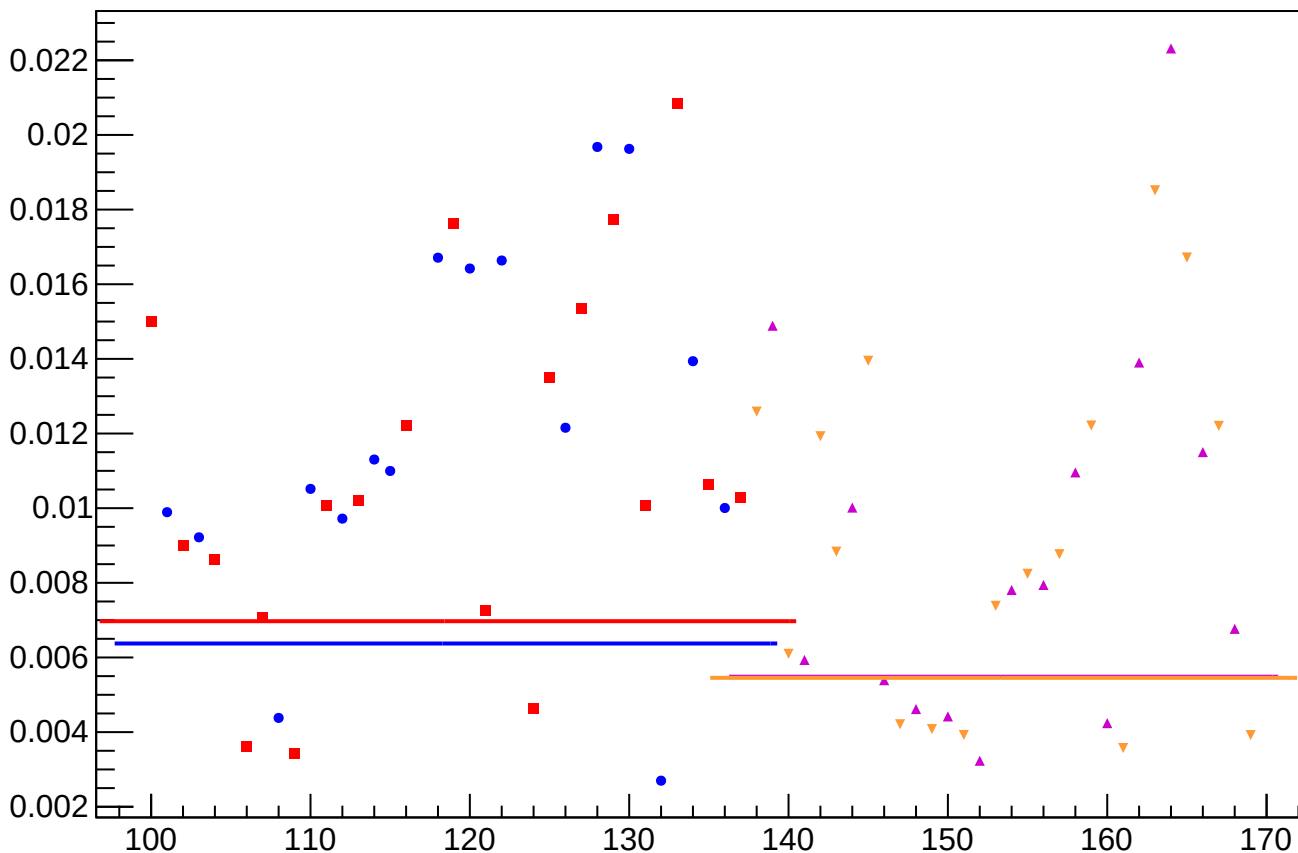
Right: -0.000 ± 0.000 χ^2/NDF : 31.5/34

In: 0.000 ± 0.000 χ^2/NDF : 28.0/30

Out: 0.000 ± 0.000 χ^2/NDF : 47.9/35

All: 0.000 ± 0.000 χ^2/NDF : 76.8/66

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000

χ^2/NDF : 4639775.7/15

Left Out: 0.005+/-0.000

χ^2/NDF :5512404.9/16

Right Out: 0.007+/-0.000

χ^2/NDF : 3409939.3/18

Left In: 0.005+/-0.000

χ^2/NDF :4308342.8/14

Left: 0.005+/-0.000

χ^2/NDF : 9821040.0/31

Right: 0.007+/-0.000

χ^2/NDF : 8090163.7/34

In: 0.006+/-0.000

χ^2/NDF :9081038.5/30

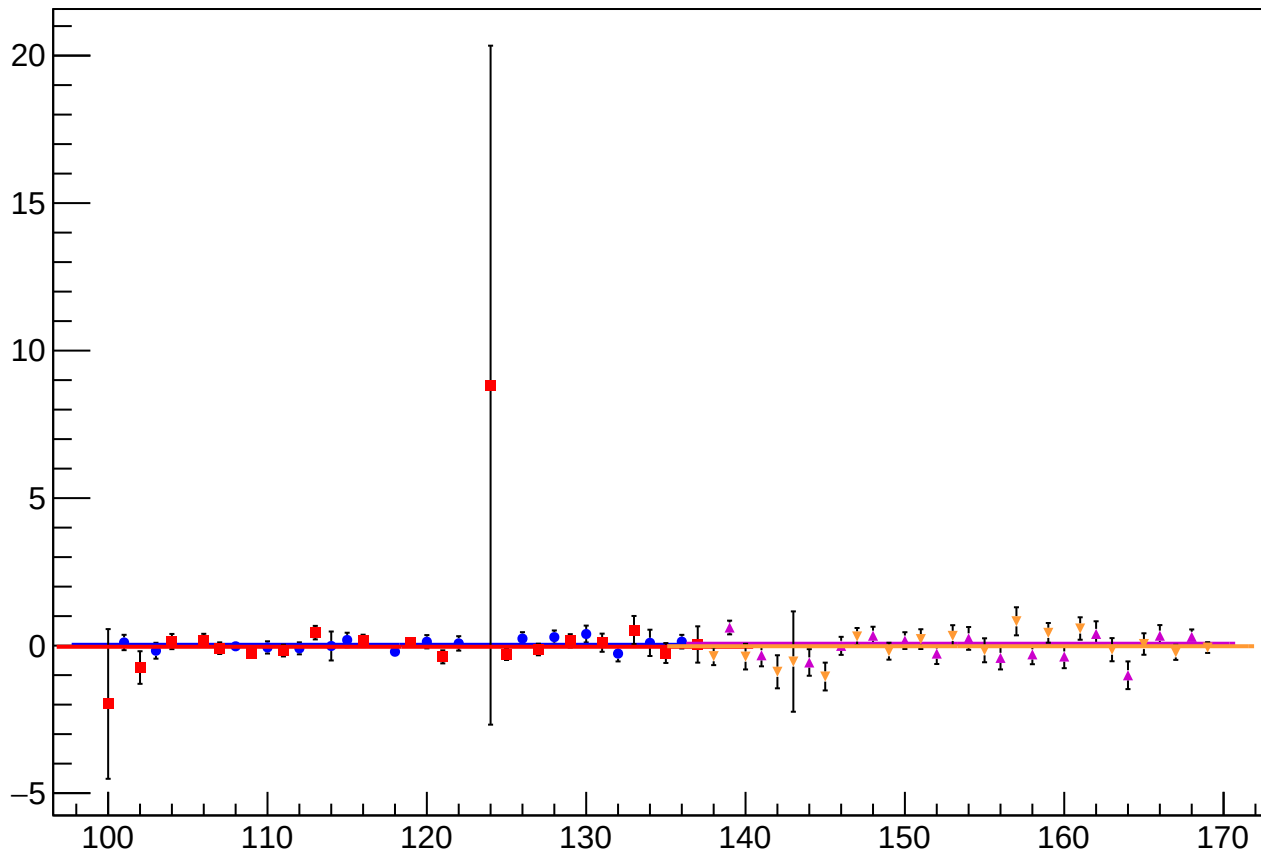
Out: 0.006+/-0.000

χ^2/NDF :9304887.3/35

All: 0.006+/-0.000

χ^2/NDF : 18389622.6/66

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 ± 0.058 $\chi^2/\text{NDF}: 9.4/15$

Left Out: -0.021 ± 0.081 $\chi^2/\text{NDF}: 20.7/16$

Right Out: -0.039 ± 0.055 $\chi^2/\text{NDF}: 20.0/18$

Left In: 0.064 ± 0.086 $\chi^2/\text{NDF}: 21.8/14$

Left: 0.019 ± 0.059 $\chi^2/\text{NDF}: 43.1/31$

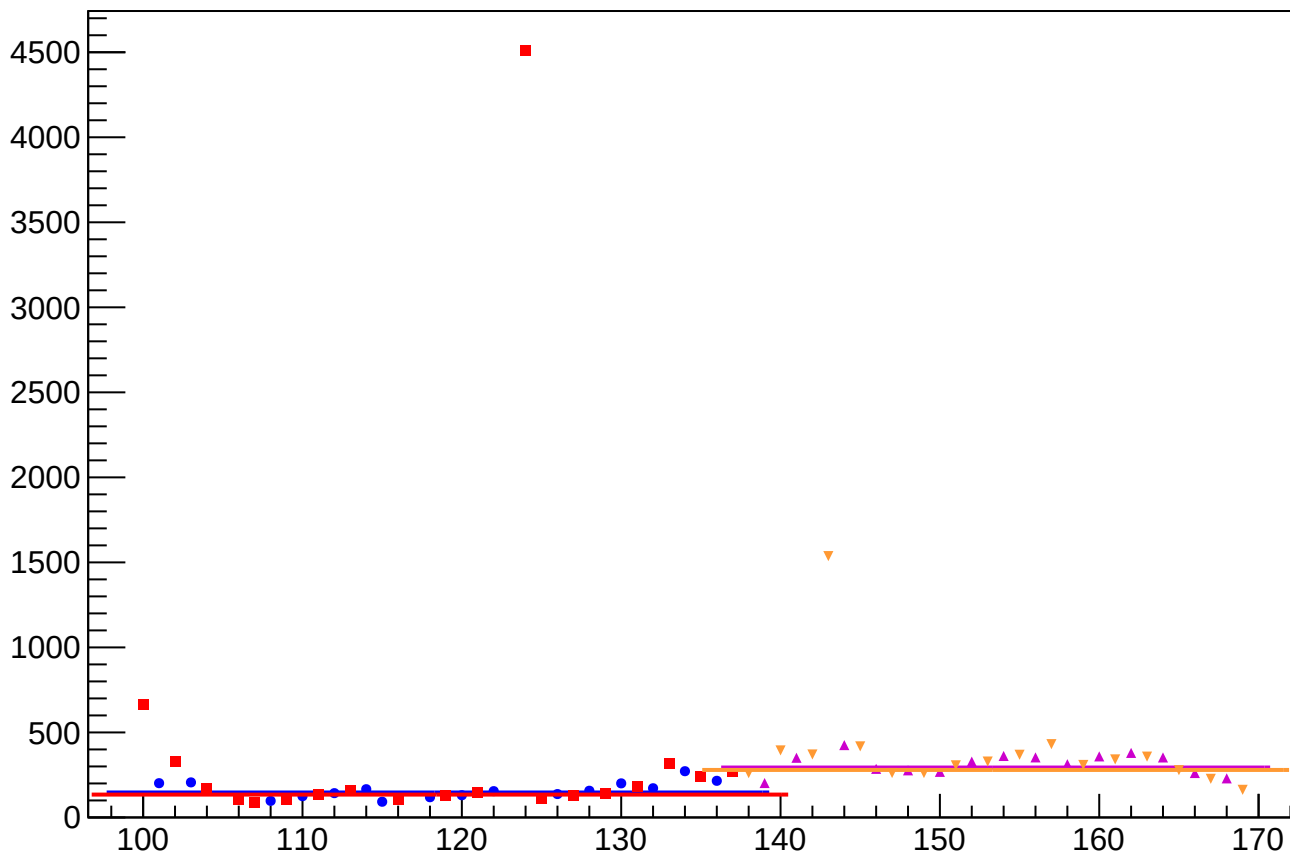
Right: -0.007 ± 0.040 $\chi^2/\text{NDF}: 30.2/34$

In: 0.039 ± 0.048 $\chi^2/\text{NDF}: 31.4/30$

Out: -0.033 ± 0.045 $\chi^2/\text{NDF}: 40.7/35$

All: 0.001 ± 0.033 $\chi^2/\text{NDF}: 73.4/66$

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998646.8/15

Left Out: 279.406+/-0.058 χ^2/NDF : 2889306.4/16

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 293.557+/-0.061 χ^2/NDF : 996077.4/14

Left: 286.081+/-0.042 χ^2/NDF : 3913882.0/31

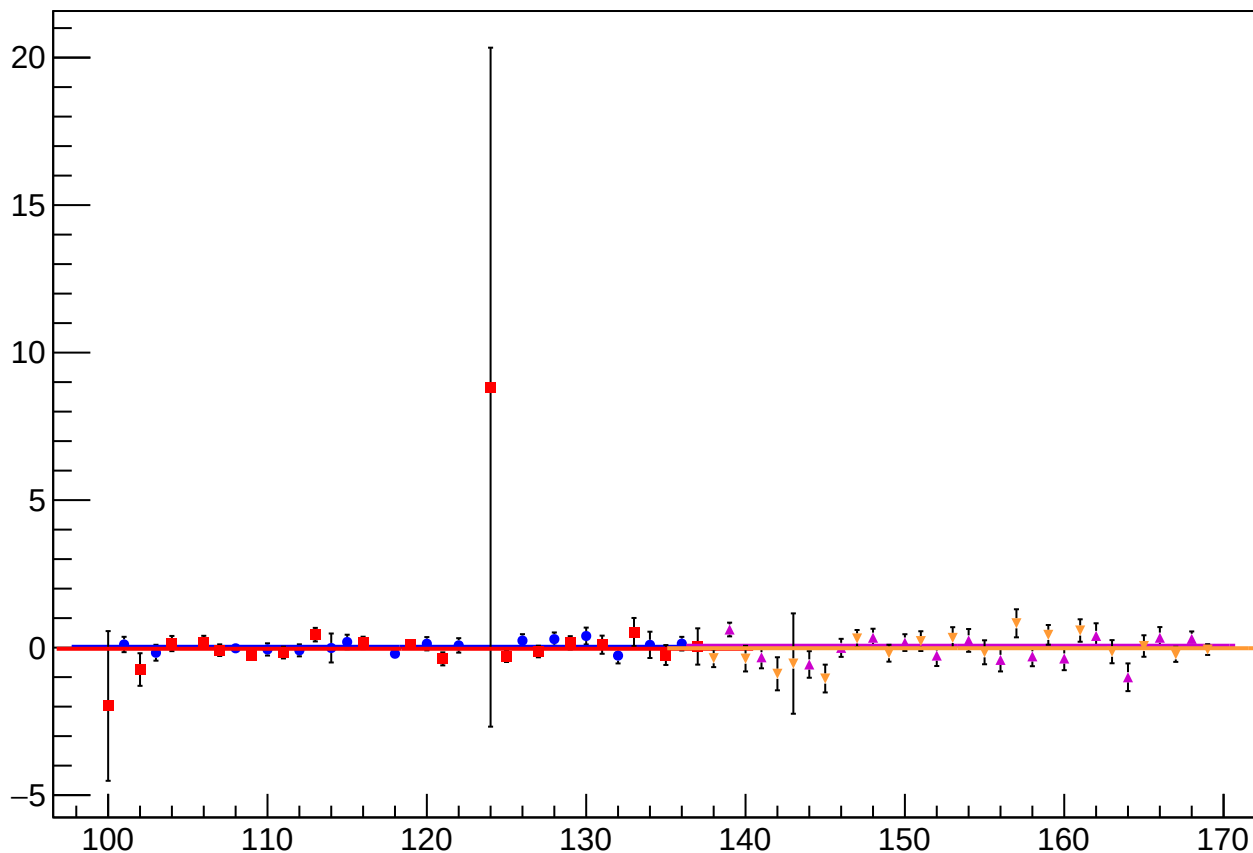
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 192.253+/-0.034 χ^2/NDF : 5998245.9/30

Out: 179.660+/-0.032 χ^2/NDF : 8856366.4/35

All: 185.620+/-0.023 χ^2/NDF : 14927280.5/66

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.058 χ^2 /NDF: 9.4/15

Left Out: -0.021 $\pm$ 0.081 χ^2 /NDF:20.7/16

Right Out: -0.039 $\pm$ 0.055 χ^2 /NDF: 20.0/18

Left In: 0.064 $\pm$ 0.086 χ^2 /NDF:21.8/14

Left: 0.019 $\pm$ 0.059 χ^2 /NDF: 43.1/31

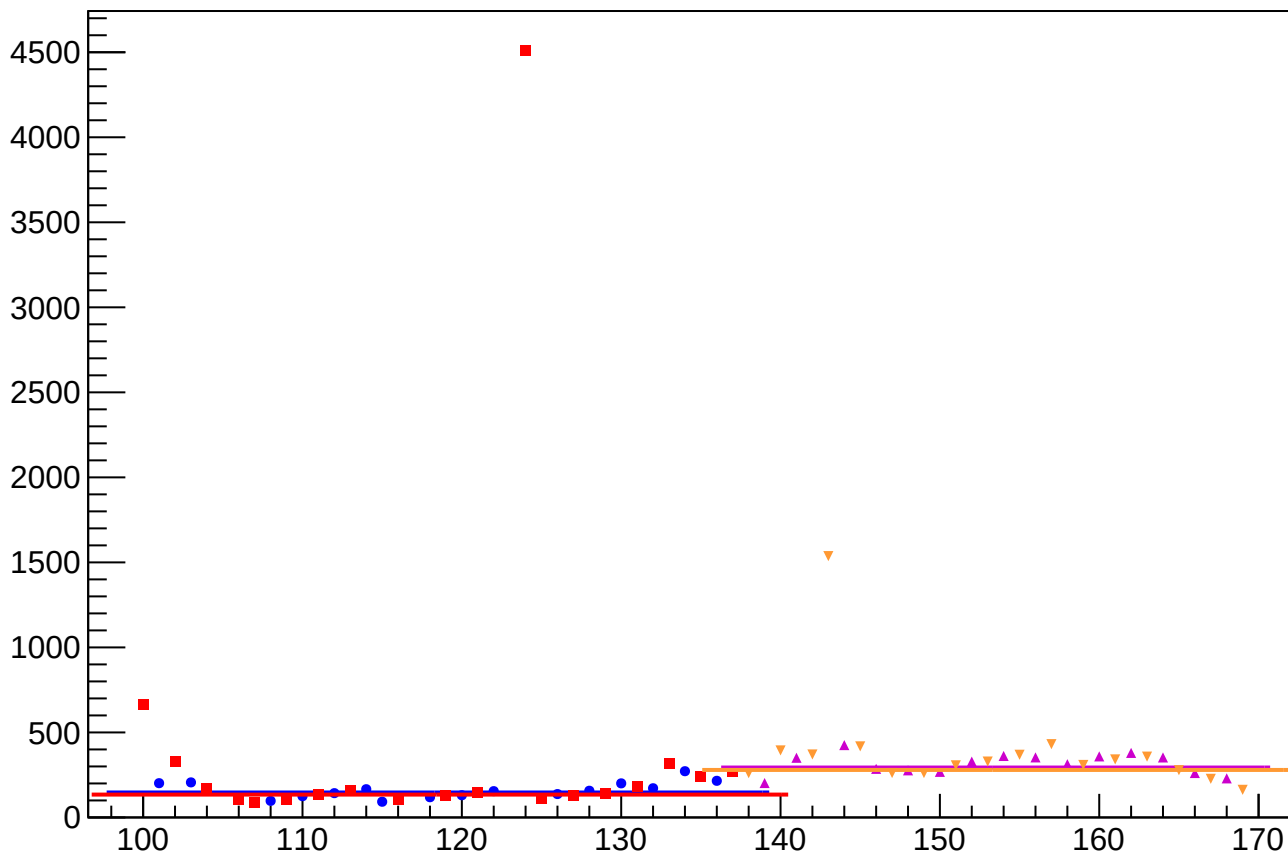
Right: -0.007 $\pm$ 0.040 χ^2 /NDF: 30.2/34

In: 0.039 $\pm$ 0.048 χ^2 /NDF:31.4/30

Out: -0.033 $\pm$ 0.045 χ^2 /NDF:40.7/35

All: 0.001 $\pm$ 0.033 χ^2 /NDF: 73.4/66

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 146.829+/-0.041 χ^2/NDF : 998646.8/15

Left Out: 279.406+/-0.058 χ^2/NDF : 2889306.4/16

Right Out: 134.506+/-0.039 χ^2/NDF : 1606310.4/18

Left In: 293.557+/-0.061 χ^2/NDF : 996077.4/14

Left: 286.081+/-0.042 χ^2/NDF : 3913882.0/31

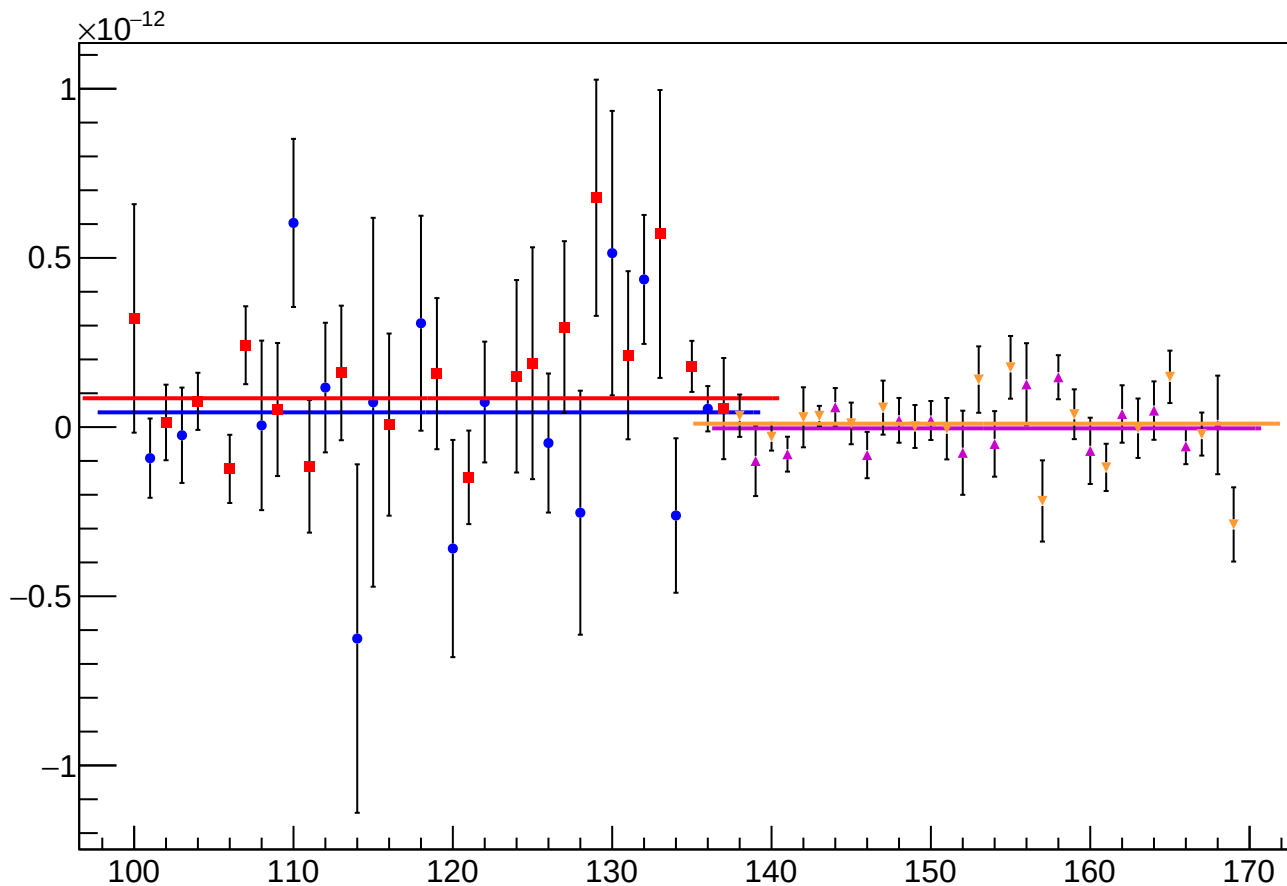
Right: 140.348+/-0.028 χ^2/NDF : 2652938.4/34

In: 192.253+/-0.034 χ^2/NDF : 5998245.9/30

Out: 179.660+/-0.032 χ^2/NDF : 8856366.4/35

All: 185.620+/-0.023 χ^2/NDF : 14927280.5/66

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 25.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 15.1/14

Left: 0.000+/-0.000 χ^2/NDF : 40.5/31

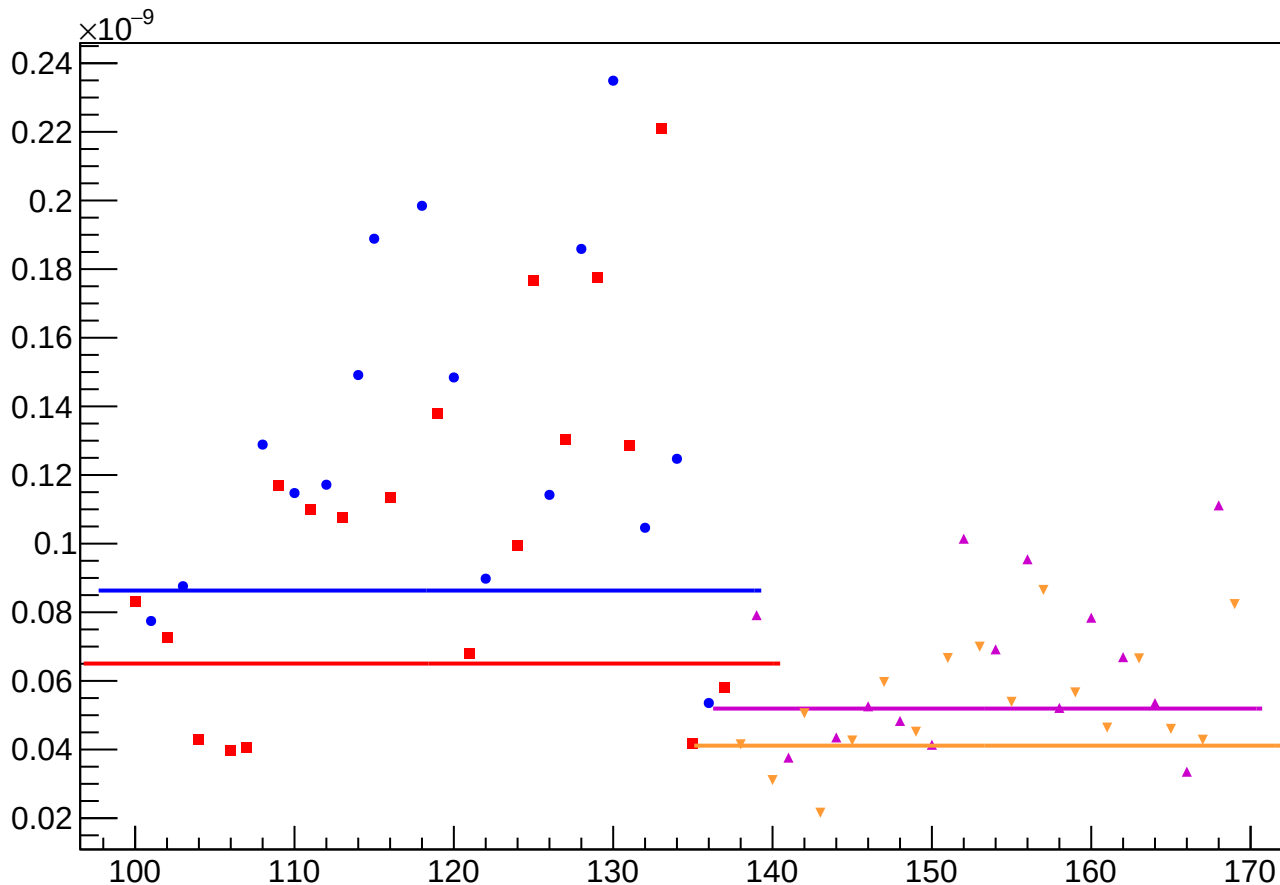
Right: 0.000+/-0.000 χ^2/NDF : 37.8/34

In: 0.000+/-0.000 χ^2/NDF : 35.1/30

Out: 0.000+/-0.000 χ^2/NDF : 47.3/35

All: 0.000+/-0.000 χ^2/NDF : 83.0/66

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1565662.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2344358.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2158861.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 1827017.2/14

Left: 0.000+/-0.000 χ^2/NDF : 4562129.0/31

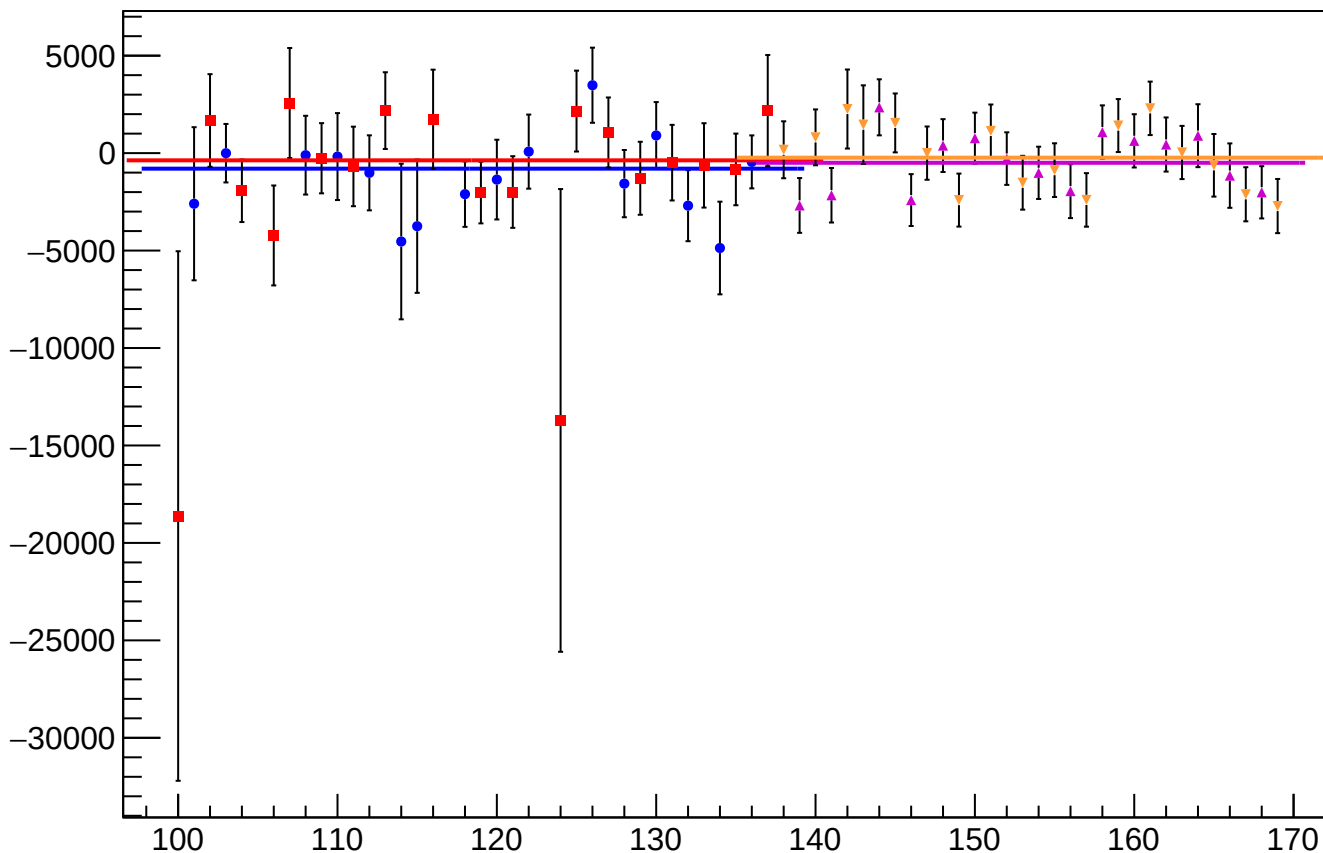
Right: 0.000+/-0.000 χ^2/NDF : 4026528.8/34

In: 0.000+/-0.000 χ^2/NDF : 4475062.6/30

Out: 0.000+/-0.000 χ^2/NDF : 5315337.7/35

All: 0.000+/-0.000 χ^2/NDF : 10411236.4/66

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -797.285 $\pm$ 487.453 χ^2 /NDF: 13.4/15

Left Out: -233.732 $\pm$ 351.019 χ^2 /NDF:21.4/16

Right Out: -370.010 $\pm$ 485.826 χ^2 /NDF: 15.6/18

Left In: -495.809 $\pm$ 360.086 χ^2 /NDF:17.1/14

Left: -361.429 $\pm$ 251.352 χ^2 /NDF: 38.8/31

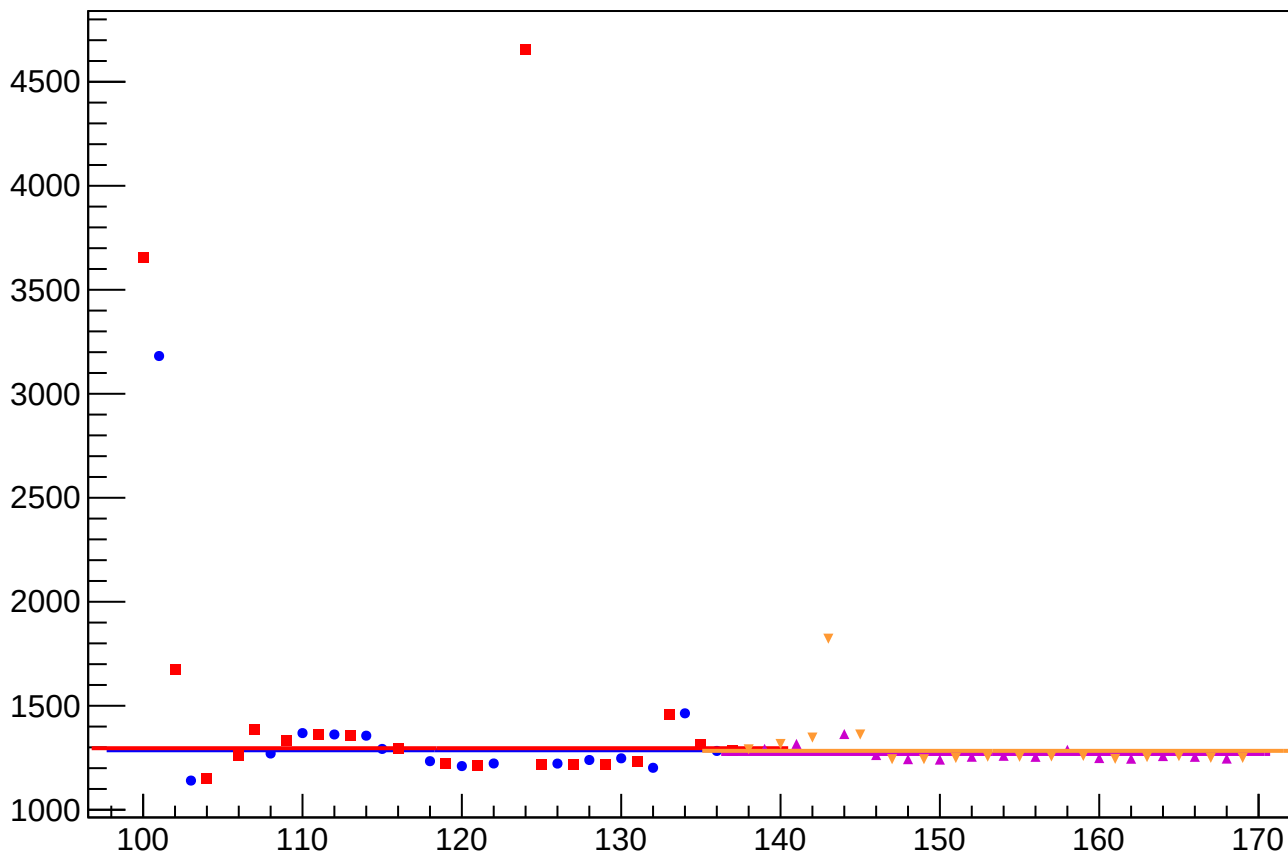
Right: -582.933 $\pm$ 344.105 χ^2 /NDF: 29.4/34

In: -602.242 $\pm$ 289.631 χ^2 /NDF:30.7/30

Out: -280.474 $\pm$ 284.523 χ^2 /NDF:37.1/35

All: -438.496 $\pm$ 202.970 χ^2 /NDF: 68.4/66

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1286.097+/-0.345 χ^2/NDF : 518126.9/15

Left Out: 1283.255+/-0.248 χ^2/NDF : 164800.9/16

Right Out: 1295.943+/-0.344 χ^2/NDF : 328069.9/18

Left In: 1268.223+/-0.255 χ^2/NDF : 16085.4/14

Left: 1275.930+/-0.178 χ^2/NDF : 182673.6/31

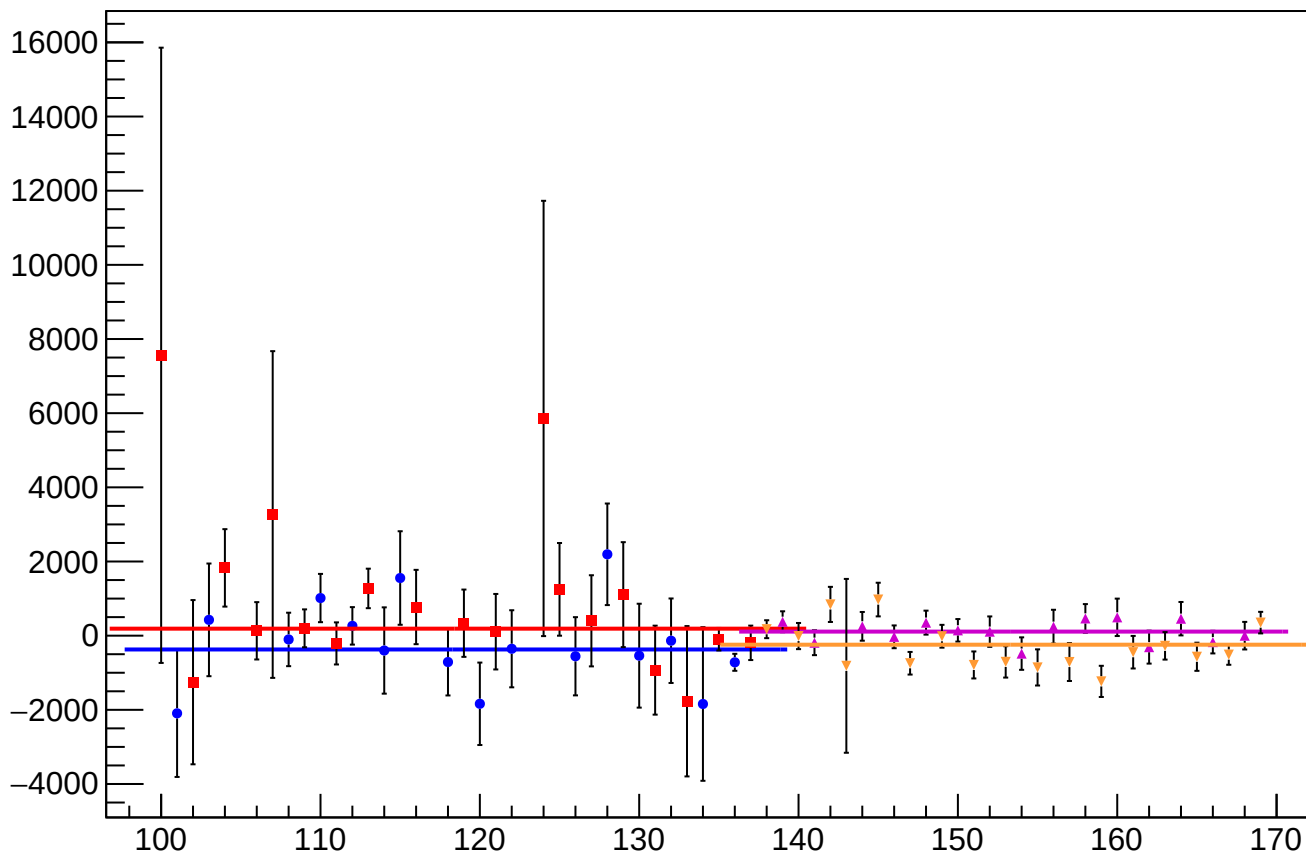
Right: 1291.036+/-0.243 χ^2/NDF : 846606.2/34

In: 1274.533+/-0.205 χ^2/NDF : 535952.2/30

Out: 1287.607+/-0.201 χ^2/NDF : 493767.1/35

All: 1281.186+/-0.144 χ^2/NDF : 1031793.1/66

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -372.325+/-168.204 χ^2/NDF : 18.2/15

Left Out: -243.696+/-88.603 χ^2/NDF :36.7/16

Right Out: 188.945+/-169.575 χ^2/NDF : 14.6/18

Left In: 109.664+/-93.791 χ^2/NDF :8.4/14

Left: -77.059+/-64.407 χ^2/NDF : 52.6/31

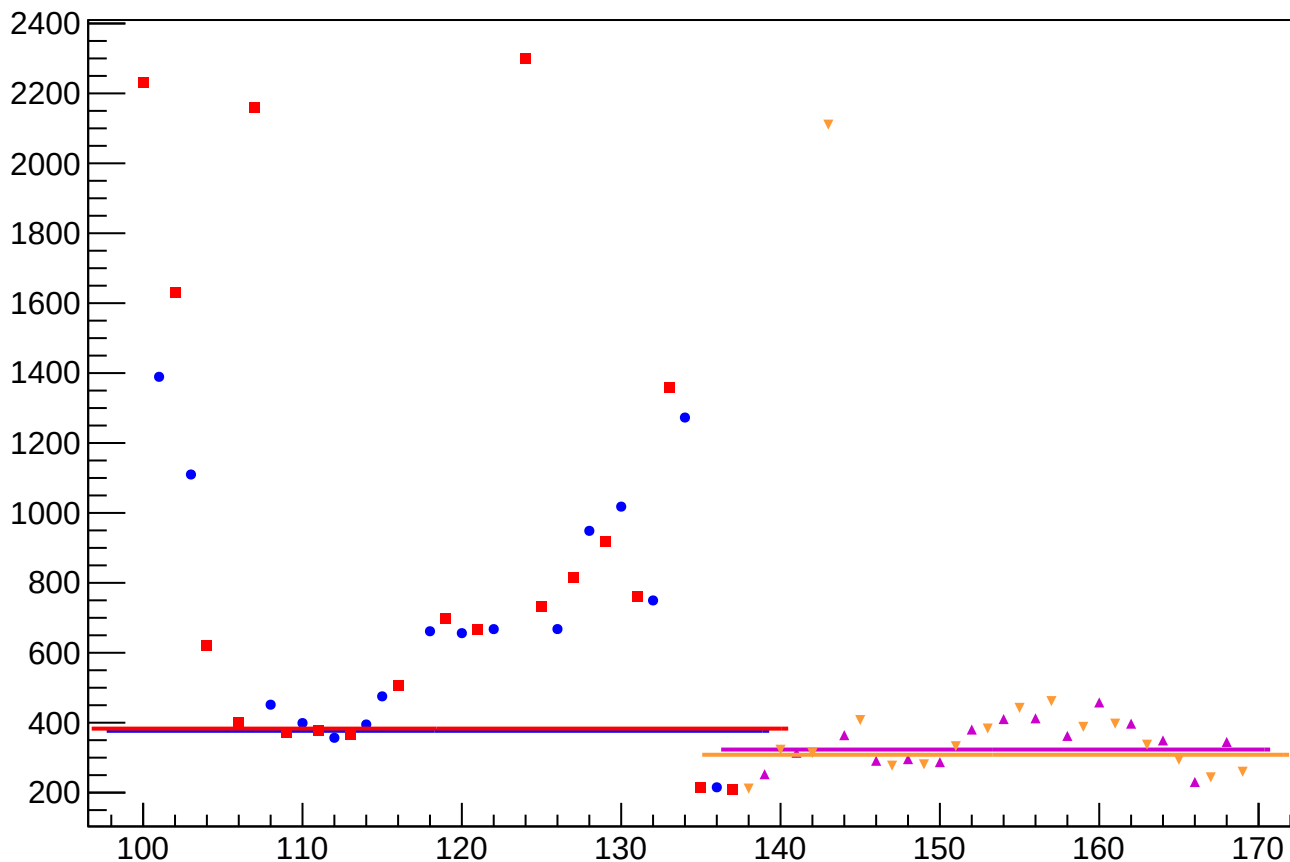
Right: -93.969+/-119.420 χ^2/NDF : 38.3/34

In: -4.652+/-81.916 χ^2/NDF :32.8/30

Out: -150.914+/-78.529 χ^2/NDF :56.5/35

All: -80.869+/-56.688 χ^2/NDF : 90.9/66

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 376.893 ± 0.119 $\chi^2/\text{NDF}: 4190194.7/15$

Left Out: 308.292 ± 0.063 $\chi^2/\text{NDF}: 2378878.5/16$

Right Out: 383.074 ± 0.120 $\chi^2/\text{NDF}: 4054121.5/18$

Left In: 323.177 ± 0.066 $\chi^2/\text{NDF}: 825595.6/14$

Left: 315.312 ± 0.046 $\chi^2/\text{NDF}: 3231093.8/31$

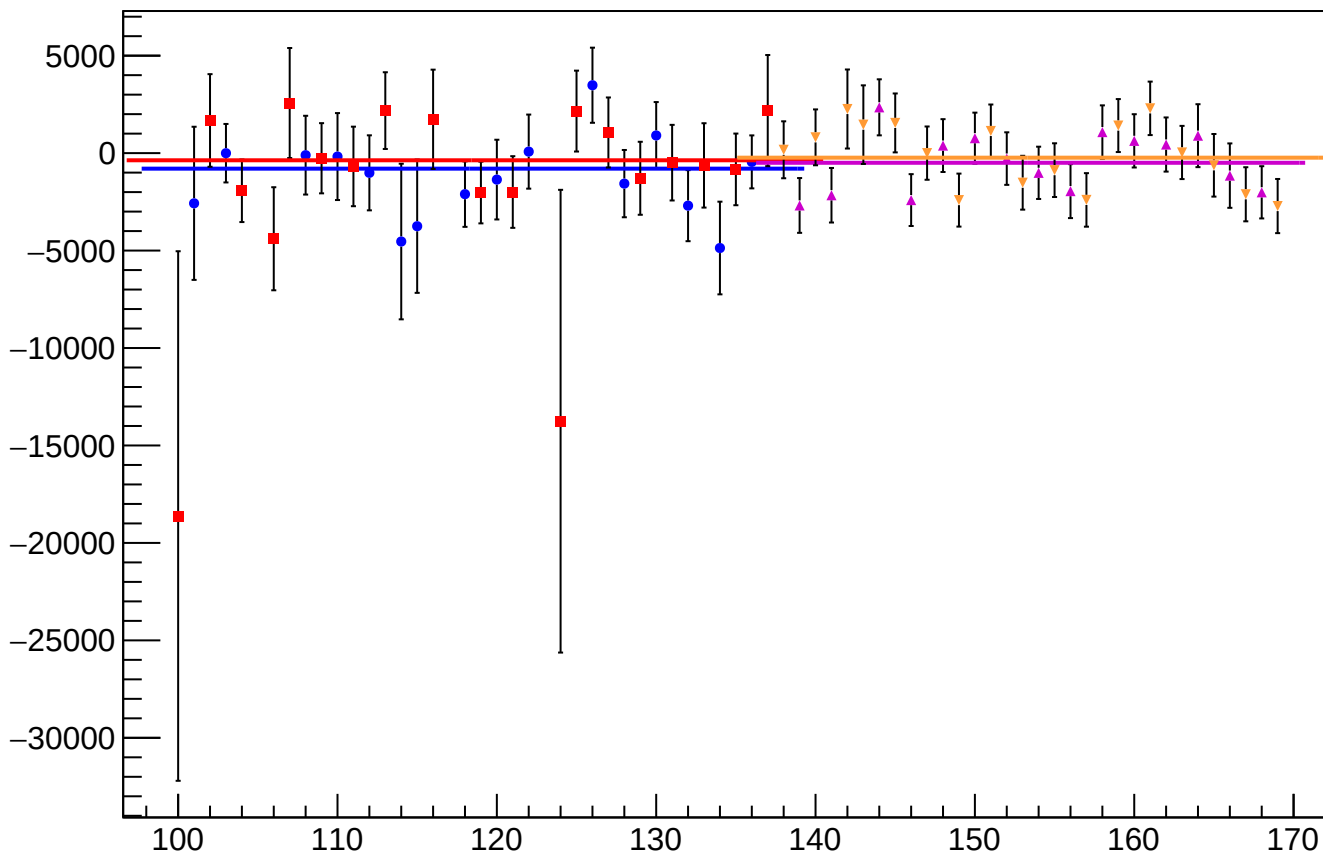
Right: 379.958 ± 0.084 $\chi^2/\text{NDF}: 8245655.7/34$

In: 335.917 ± 0.058 $\chi^2/\text{NDF}: 5171379.6/30$

Out: 324.329 ± 0.056 $\chi^2/\text{NDF}: 6738539.6/35$

All: 329.879 ± 0.040 $\chi^2/\text{NDF}: 11930774.5/60$

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -796.883+/-487.454 χ^2/NDF : 13.4/15

Left Out: -233.682+/-351.019 χ^2/NDF : 21.4/16

Right Out: -367.476+/-486.348 χ^2/NDF : 15.7/18

Left In: -495.775+/-360.086 χ^2/NDF : 17.1/14

Left: -361.387+/-251.352 χ^2/NDF : 38.8/31

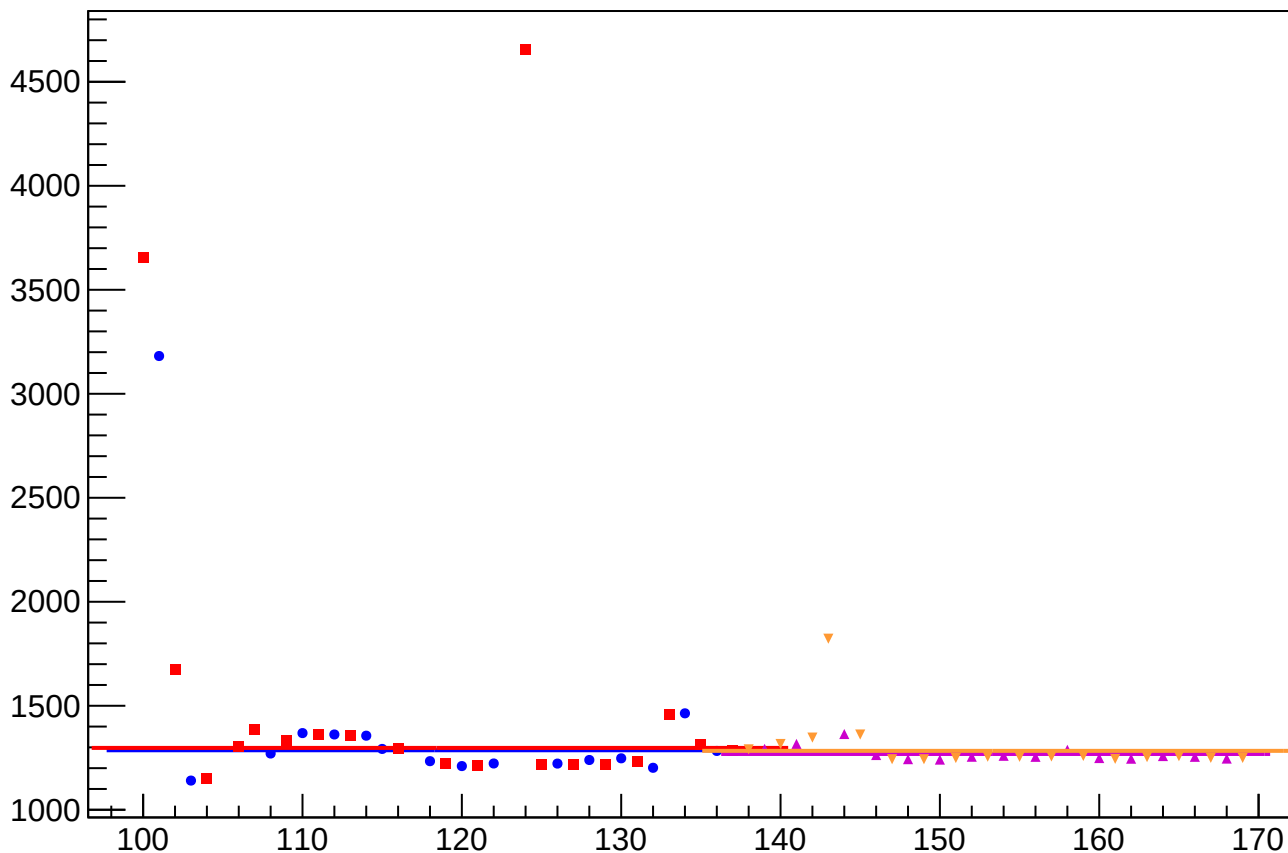
Right: -581.692+/-344.290 χ^2/NDF : 29.5/34

In: -602.078+/-289.631 χ^2/NDF : 30.7/30

Out: -279.507+/-284.628 χ^2/NDF : 37.1/35

All: -437.982+/-203.008 χ^2/NDF : 68.5/66

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1286.097 $\pm$ 0.345 χ^2 /NDF: 518128.4/15

Left Out: 1283.255 $\pm$ 0.248 χ^2 /NDF: 164800.9/16

Right Out: 1297.394 $\pm$ 0.344 χ^2 /NDF: 327741.7/18

Left In: 1268.223 $\pm$ 0.255 χ^2 /NDF: 16085.4/14

Left: 1275.930 $\pm$ 0.178 χ^2 /NDF: 182673.6/31

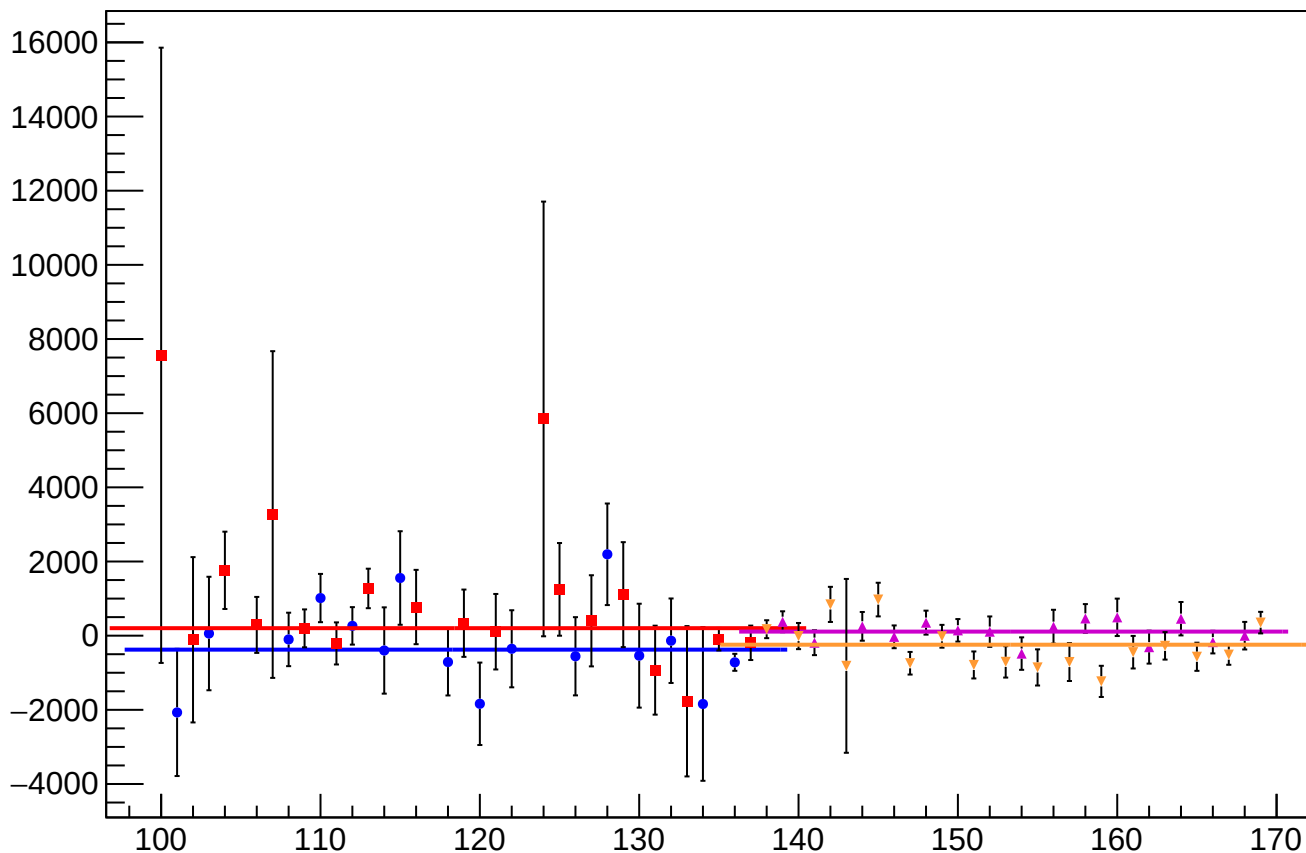
Right: 1291.758 $\pm$ 0.243 χ^2 /NDF: 846408.4/34

In: 1274.533 $\pm$ 0.205 χ^2 /NDF: 535953.6/30

Out: 1288.097 $\pm$ 0.201 χ^2 /NDF: 493654.0/35

All: 1281.433 $\pm$ 0.144 χ^2 /NDF: 1031839.3/66

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -376.771 ± 168.223 χ^2/NDF : 17.9/15

Left Out: -243.704 ± 88.605 χ^2/NDF : 36.7/16

Right Out: 202.144 ± 169.377 χ^2/NDF : 14.0/18

Left In: 109.672 ± 93.791 χ^2/NDF : 8.4/14

Left: -77.055 ± 64.408 χ^2/NDF : 52.6/31

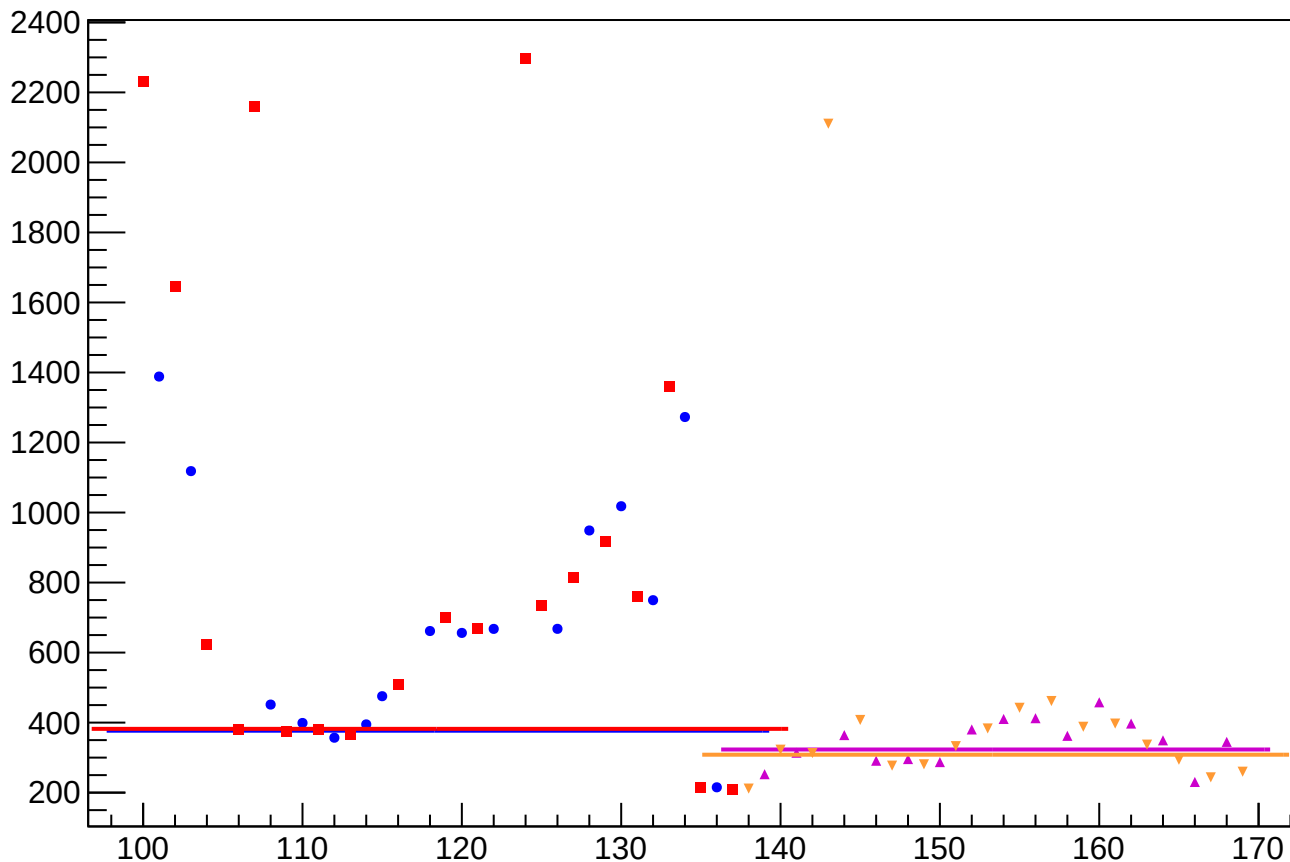
Right: -89.292 ± 119.358 χ^2/NDF : 37.9/34

In: -5.681 ± 81.919 χ^2/NDF : 32.7/30

Out: -147.910 ± 78.511 χ^2/NDF : 56.2/35

All: -79.815 ± 56.682 χ^2/NDF : 90.4/66

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 376.884+/-0.119 χ^2/NDF : 4193328.0/15

Left Out: 308.301+/-0.063 χ^2/NDF : 2378708.2/16

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 323.178+/-0.066 χ^2/NDF : 825714.2/14

Left: 315.317+/-0.046 χ^2/NDF : 3231009.4/31

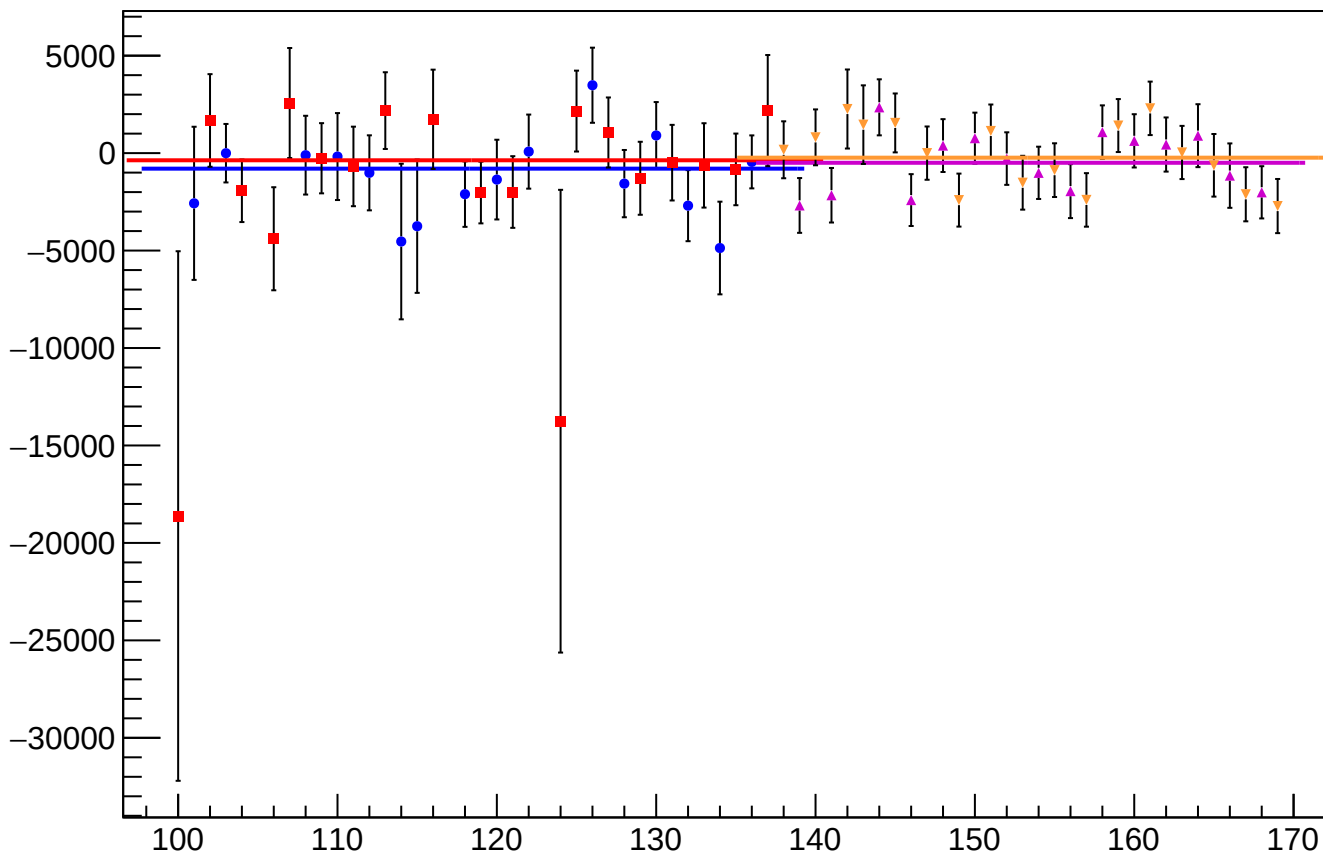
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 335.913+/-0.058 χ^2/NDF : 5174551.3/30

Out: 324.165+/-0.056 χ^2/NDF : 6736701.2/35

All: 329.790+/-0.040 χ^2/NDF : 11932692.0/60

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -796.883 ± 487.454 $\chi^2/\text{NDF}: 13.4/15$

Left Out: -233.682 ± 351.019 $\chi^2/\text{NDF}: 21.4/16$

Right Out: -367.476 ± 486.348 $\chi^2/\text{NDF}: 15.7/18$

Left In: -495.775 ± 360.086 $\chi^2/\text{NDF}: 17.1/14$

Left: -361.387 ± 251.352 $\chi^2/\text{NDF}: 38.8/31$

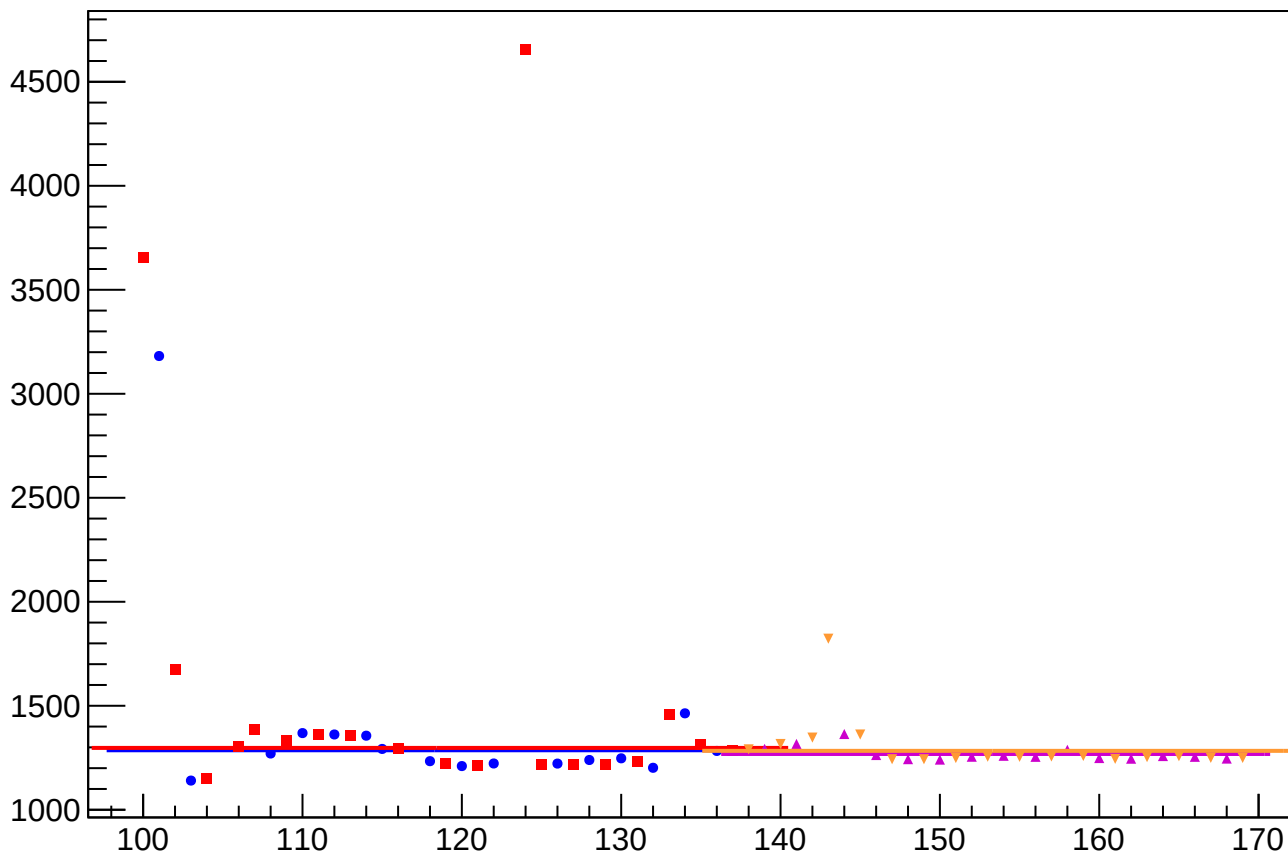
Right: -581.692 ± 344.290 $\chi^2/\text{NDF}: 29.5/34$

In: -602.078 ± 289.631 $\chi^2/\text{NDF}: 30.7/30$

Out: -279.507 ± 284.628 $\chi^2/\text{NDF}: 37.1/35$

All: -437.982 ± 203.008 $\chi^2/\text{NDF}: 68.5/66$

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1286.097+/-0.345 χ^2/NDF : 518128.4/15

Left Out: 1283.255+/-0.248 χ^2/NDF :164800.9/16

Right Out: 1297.394+/-0.344 χ^2/NDF : 327741.7/18

Left In: 1268.223+/-0.255 χ^2/NDF :16085.4/14

Left: 1275.930+/-0.178 χ^2/NDF : 182673.6/31

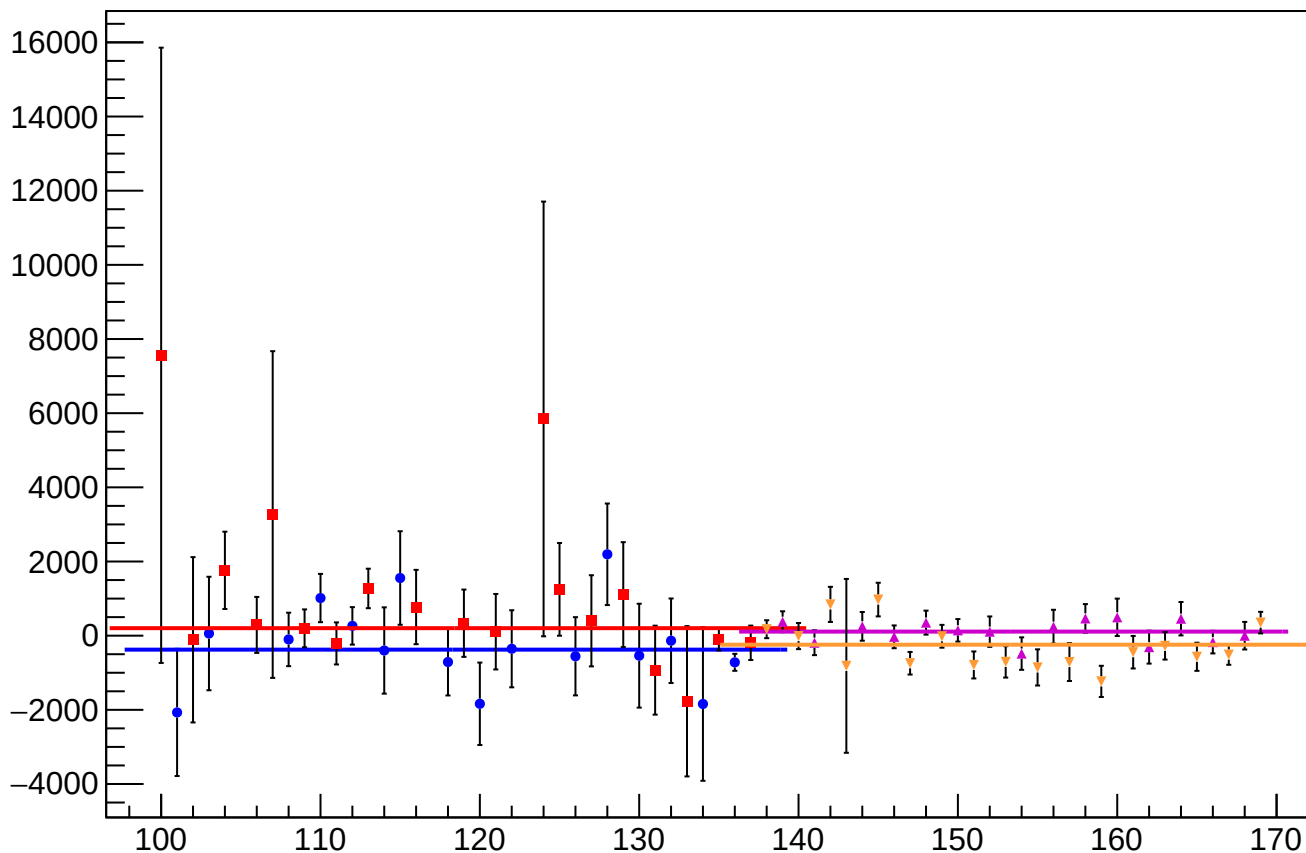
Right: 1291.758+/-0.243 χ^2/NDF : 846408.4/34

In: 1274.533+/-0.205 χ^2/NDF :535953.6/30

Out: 1288.097+/-0.201 χ^2/NDF :493654.0/35

All: 1281.433+/-0.144 χ^2/NDF : 1031839.3/66

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -376.771 $\pm$ 168.223 χ^2 /NDF: 17.9/15

Left Out: -243.704 $\pm$ 88.605 χ^2 /NDF:36.7/16

Right Out: 202.144 $\pm$ 169.377 χ^2 /NDF: 14.0/18

Left In: 109.672 $\pm$ 93.791 χ^2 /NDF:8.4/14

Left: -77.055 $\pm$ 64.408 χ^2 /NDF: 52.6/31

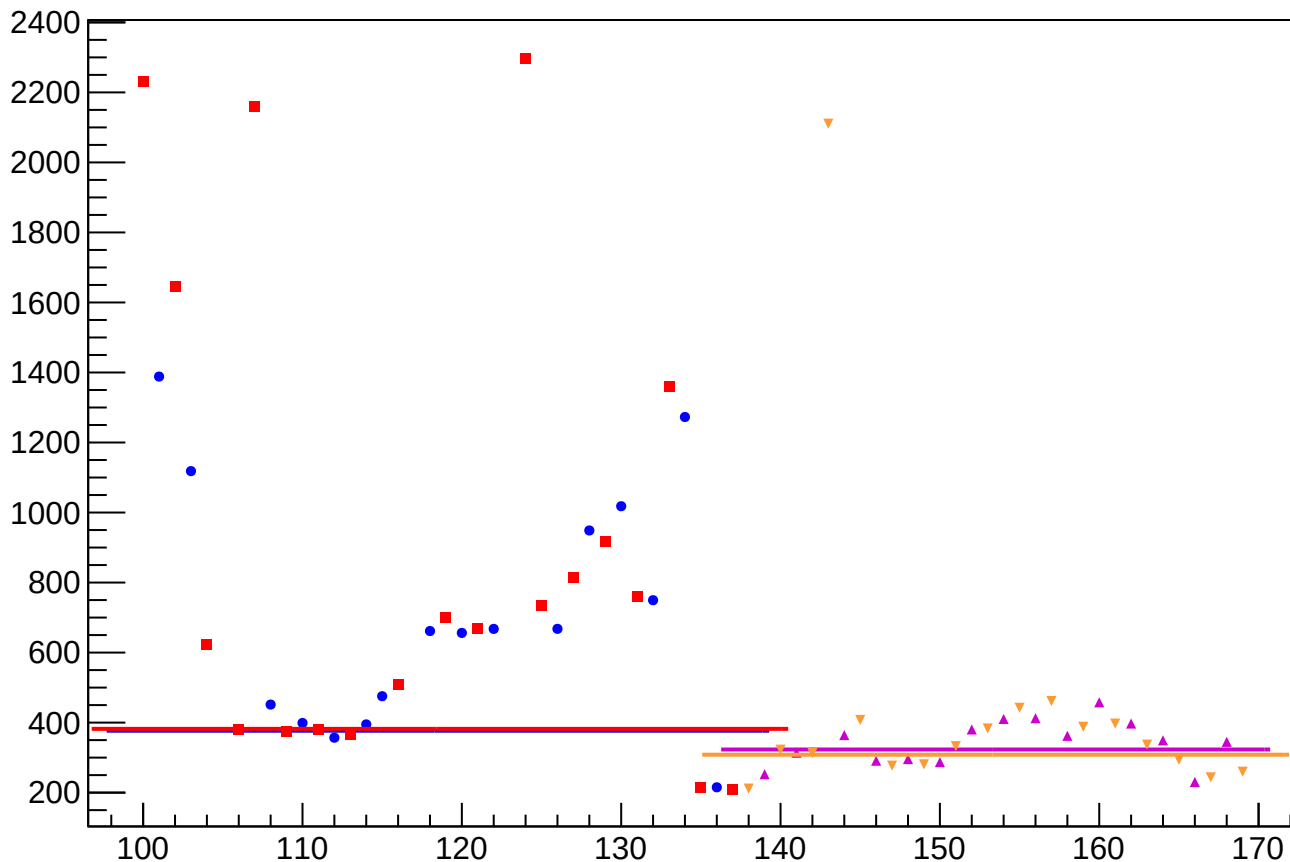
Right: -89.292 $\pm$ 119.358 χ^2 /NDF: 37.9/34

In: -5.681 $\pm$ 81.919 χ^2 /NDF:32.7/30

Out: -147.910 $\pm$ 78.511 χ^2 /NDF:56.2/35

All: -79.815 $\pm$ 56.682 χ^2 /NDF: 90.4/66

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 376.884+/-0.119 χ^2/NDF : 4193328.0/15

Left Out: 308.301+/-0.063 χ^2/NDF : 2378708.2/16

Right Out: 382.136+/-0.120 χ^2/NDF : 4059600.2/18

Left In: 323.178+/-0.066 χ^2/NDF : 825714.2/14

Left: 315.317+/-0.046 χ^2/NDF : 3231009.4/31

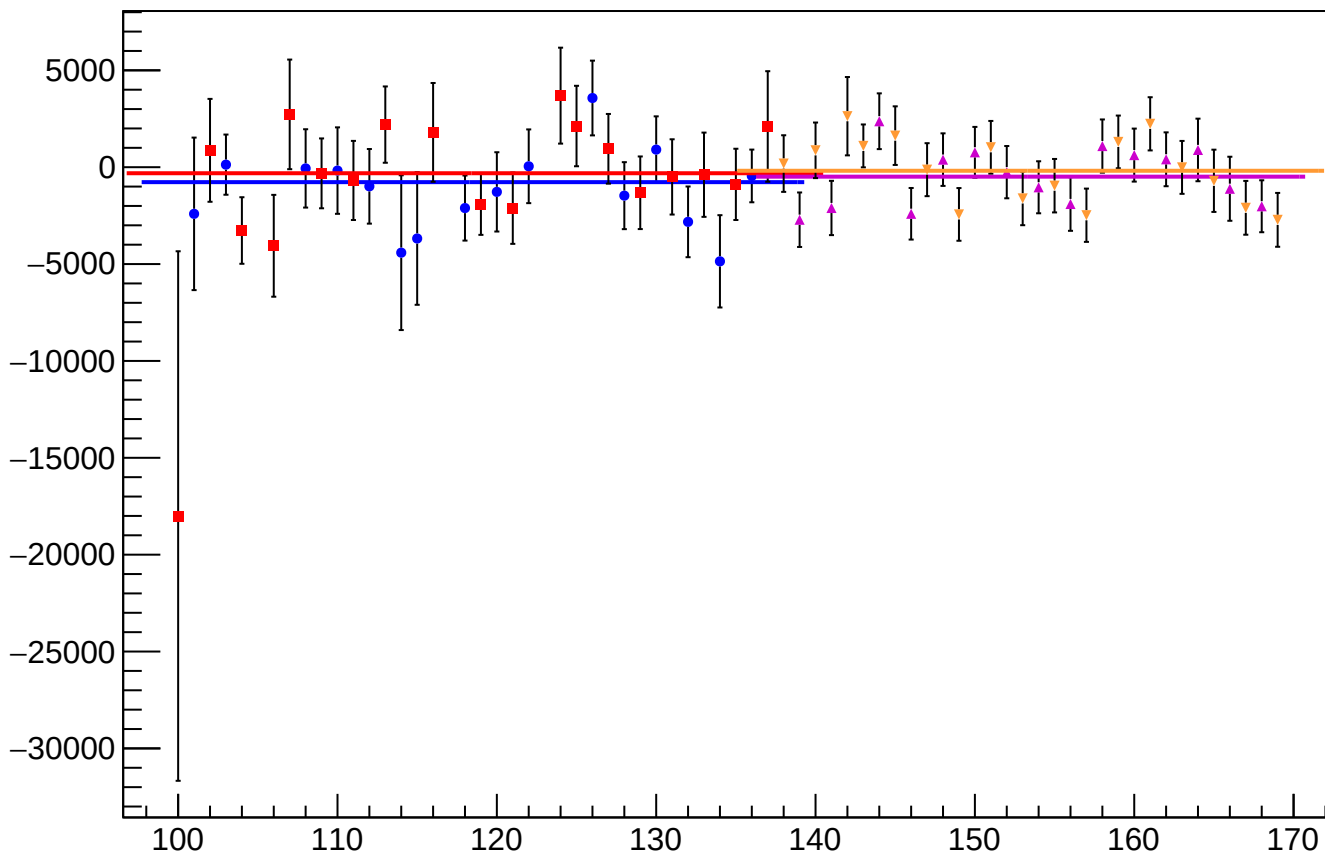
Right: 379.492+/-0.084 χ^2/NDF : 8253896.4/34

In: 335.913+/-0.058 χ^2/NDF : 5174551.3/30

Out: 324.165+/-0.056 χ^2/NDF : 6736701.2/35

All: 329.790+/-0.040 χ^2/NDF : 11932692.0/60

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -771.499+/-489.602 χ^2/NDF : 13.6/15

Left Out: -184.203+/-339.481 χ^2/NDF : 22.7/16

Right Out: -311.418+/-482.642 χ^2/NDF : 17.9/18

Left In: -488.459+/-360.350 χ^2/NDF : 17.0/14

Left: -327.266+/-247.098 χ^2/NDF : 40.1/31

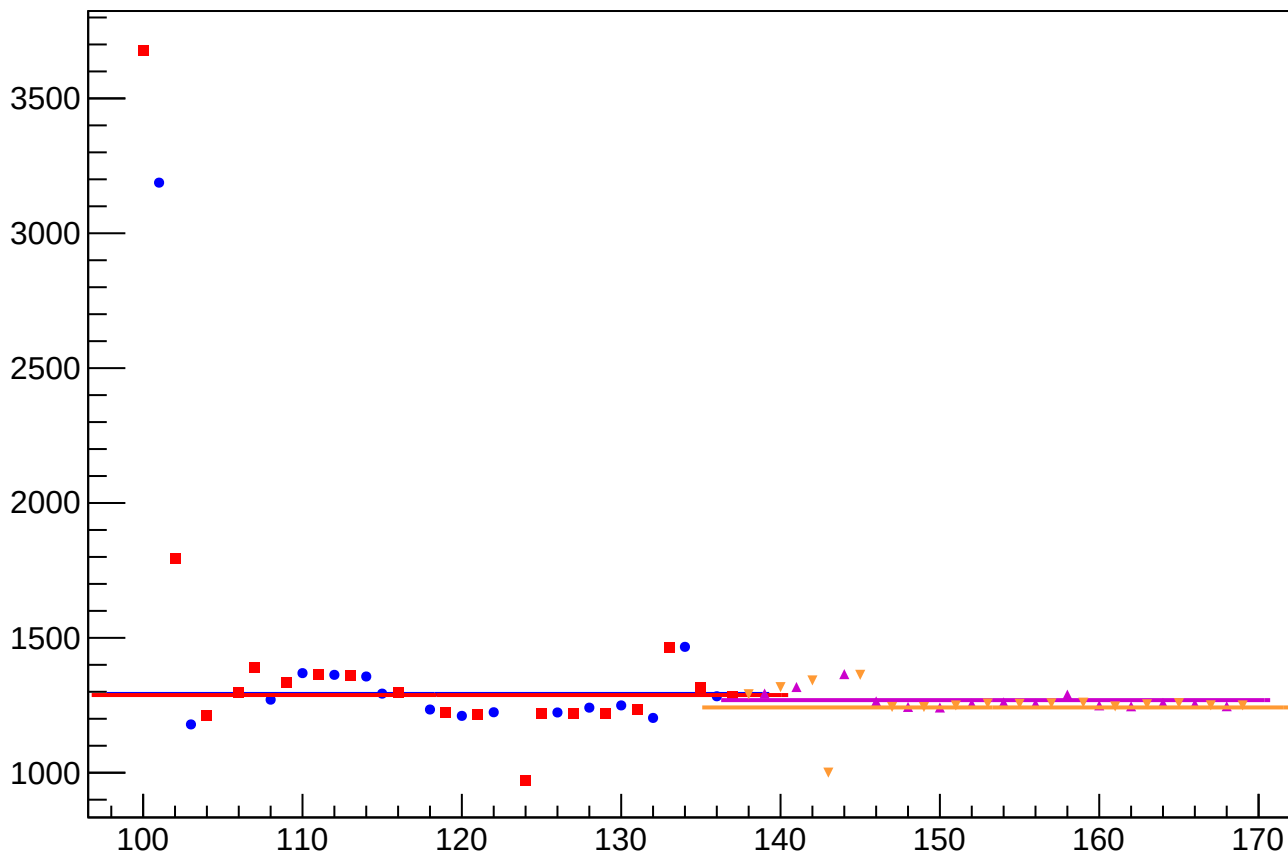
Right: -538.165+/-343.714 χ^2/NDF : 32.0/34

In: -587.909+/-290.218 χ^2/NDF : 30.8/30

Out: -226.310+/-277.672 χ^2/NDF : 40.7/35

All: -399.125+/-200.632 χ^2/NDF : 72.3/66

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1292.038 $\pm$ 0.346 χ^2 /NDF: 509406.3/15

Left Out: 1242.037 $\pm$ 0.240 χ^2 /NDF:122291.2/16

Right Out: 1287.988 $\pm$ 0.341 χ^2 /NDF: 209208.8/18

Left In: 1269.145 $\pm$ 0.255 χ^2 /NDF:16208.2/14

Left: 1254.783 $\pm$ 0.175 χ^2 /NDF: 144495.6/31

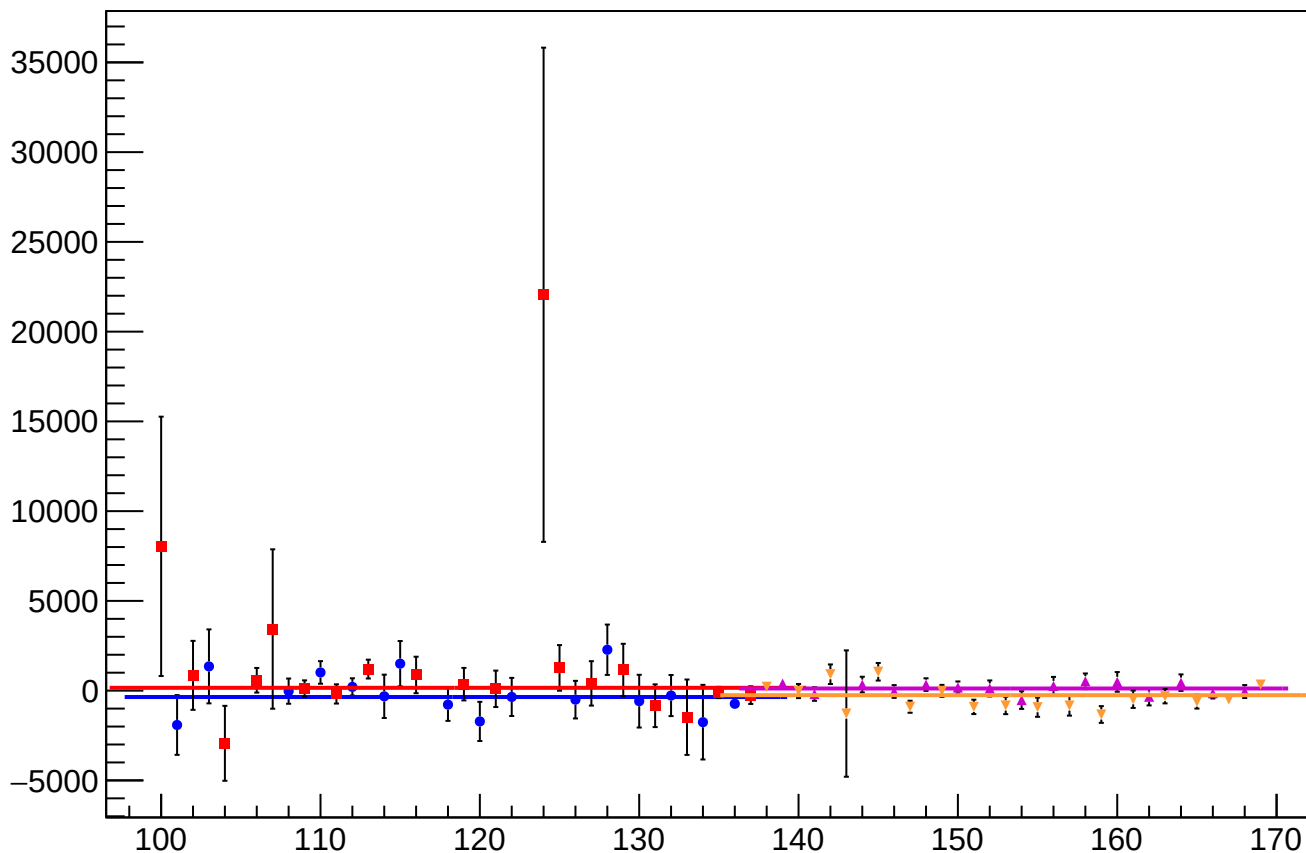
Right: 1289.984 $\pm$ 0.243 χ^2 /NDF: 718684.5/34

In: 1277.189 $\pm$ 0.205 χ^2 /NDF:528450.7/30

Out: 1257.246 $\pm$ 0.196 χ^2 /NDF:343628.6/35

All: 1266.777 $\pm$ 0.142 χ^2 /NDF: 877009.7/66

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226 ± 169.971 χ^2/NDF : 18.4/15

Left Out: -252.283 ± 93.160 χ^2/NDF : 38.5/16

Right Out: 157.924 ± 169.665 χ^2/NDF : 15.8/18

Left In: 119.218 ± 99.769 χ^2/NDF : 8.1/14

Left: -79.244 ± 68.091 χ^2/NDF : 54.0/31

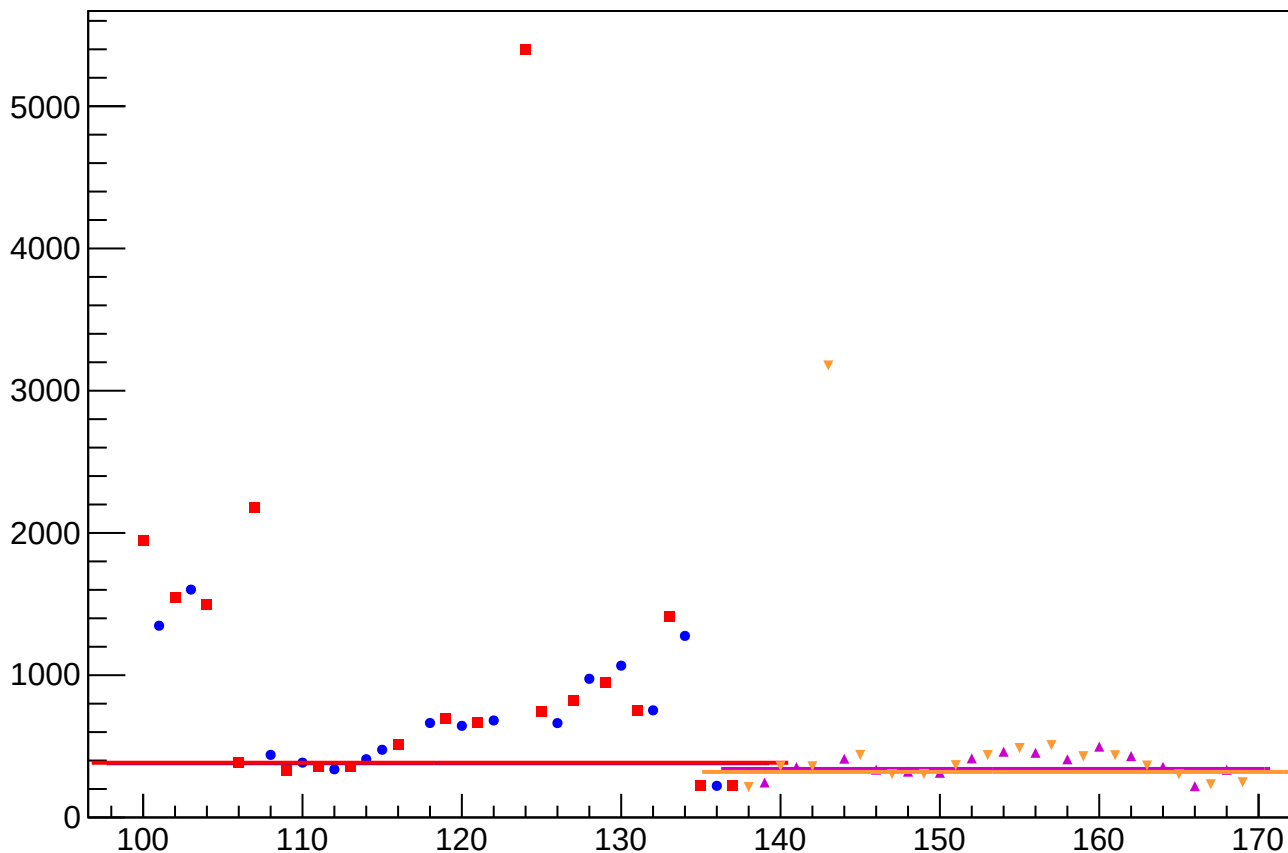
Right: -98.189 ± 120.079 χ^2/NDF : 38.8/34

In: -2.360 ± 86.042 χ^2/NDF : 32.3/30

Out: -157.258 ± 81.660 χ^2/NDF : 58.9/35

All: -83.854 ± 59.231 χ^2/NDF : 92.9/66

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 381.349+/-0.120 χ^2/NDF : 4317922.6/15

Left Out: 320.045+/-0.066 χ^2/NDF :3043071.6/16

Right Out: 384.651+/-0.120 χ^2/NDF : 4560208.6/18

Left In: 340.894+/-0.071 χ^2/NDF :1222240.6/14

Left: 329.756+/-0.048 χ^2/NDF : 4311966.9/31

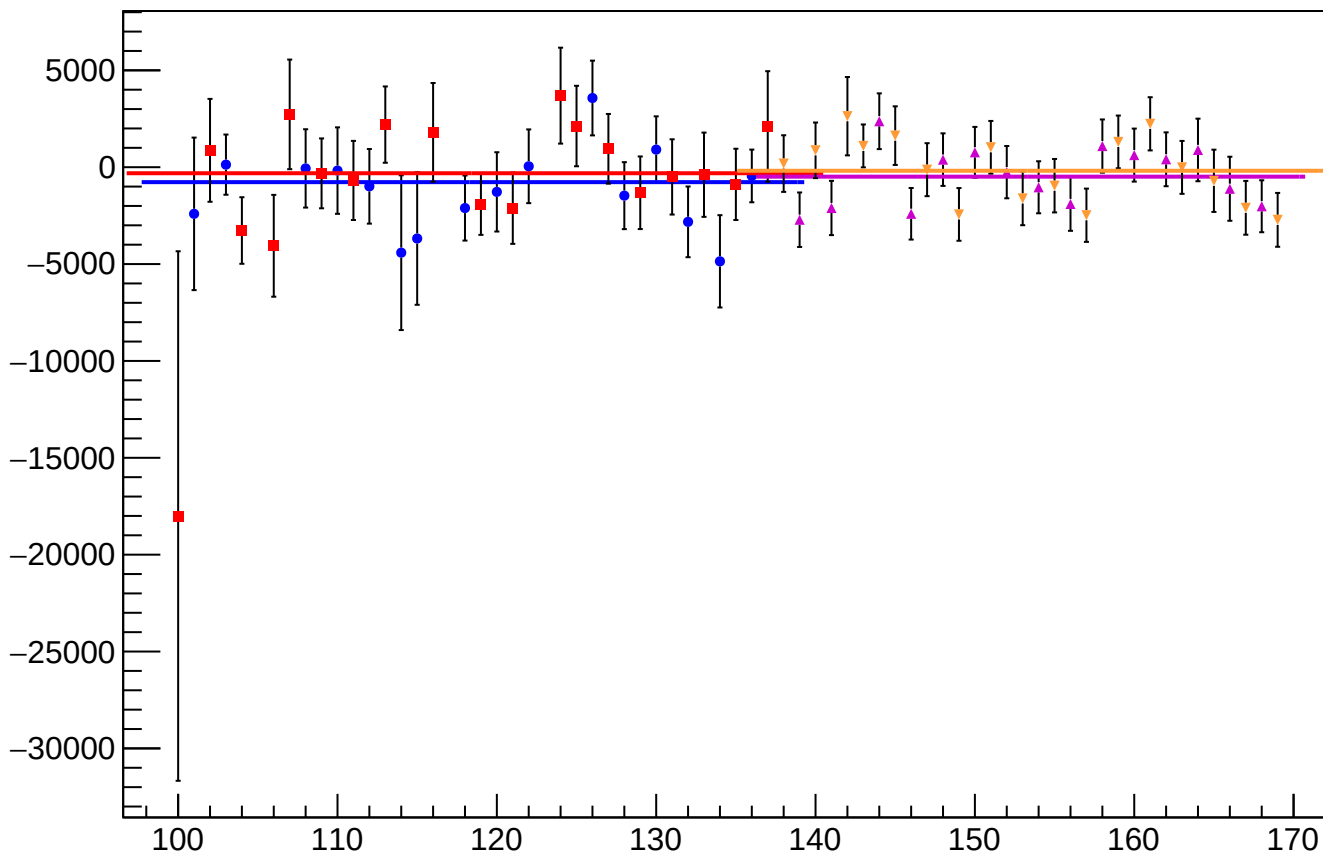
Right: 383.003+/-0.085 χ^2/NDF : 8878509.2/34

In: 351.261+/-0.061 χ^2/NDF :5624430.2/30

Out: 335.011+/-0.058 χ^2/NDF :7826093.0/35

All: 342.712+/-0.042 χ^2/NDF : 13488051.1/60

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -771.501 $\pm$ 489.602 χ^2 /NDF: 13.6/15

Left Out: -184.202 $\pm$ 339.481 χ^2 /NDF:22.7/16

Right Out: -311.419 $\pm$ 482.642 χ^2 /NDF: 17.9/18

Left In: -488.459 $\pm$ 360.350 χ^2 /NDF:17.0/14

Left: -327.266 $\pm$ 247.098 χ^2 /NDF: 40.1/31

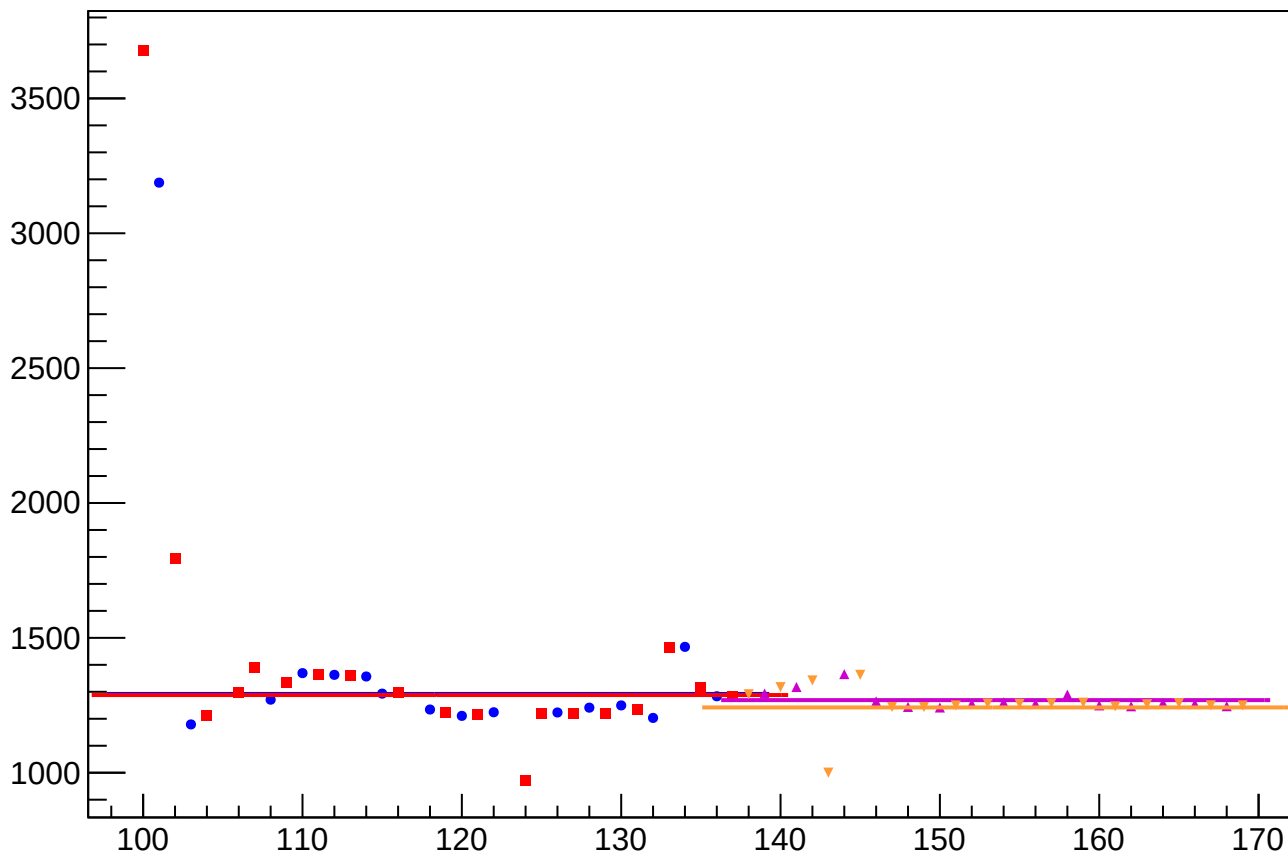
Right: -538.167 $\pm$ 343.714 χ^2 /NDF: 32.0/34

In: -587.910 $\pm$ 290.218 χ^2 /NDF:30.8/30

Out: -226.310 $\pm$ 277.672 χ^2 /NDF:40.7/35

All: -399.126 $\pm$ 200.632 χ^2 /NDF: 72.3/66

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1292.038+/-0.346 χ^2/NDF : 509406.2/15

Left Out: 1242.037+/-0.240 χ^2/NDF : 122290.4/16

Right Out: 1287.988+/-0.341 χ^2/NDF : 209209.1/18

Left In: 1269.145+/-0.255 χ^2/NDF : 16208.2/14

Left: 1254.783+/-0.175 χ^2/NDF : 144494.8/31

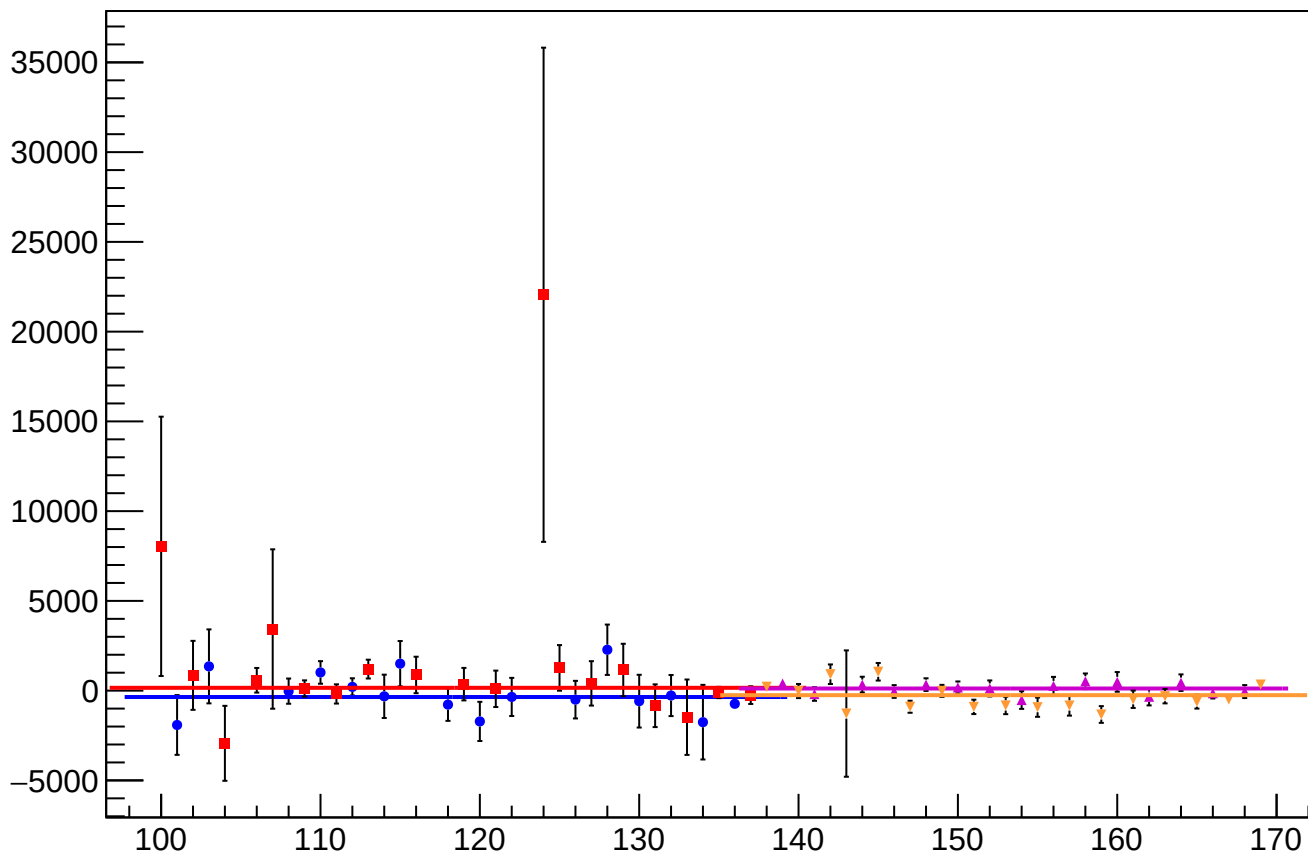
Right: 1289.984+/-0.243 χ^2/NDF : 718684.7/34

In: 1277.189+/-0.205 χ^2/NDF : 528450.7/30

Out: 1257.246+/-0.196 χ^2/NDF : 343628.0/35

All: 1266.777+/-0.142 χ^2/NDF : 877009.0/66

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.226+/-169.973 χ^2/NDF : 18.4/15

Left Out: -252.292+/-93.161 χ^2/NDF : 38.5/16

Right Out: 157.929+/-169.667 χ^2/NDF : 15.8/18

Left In: 119.216+/-99.770 χ^2/NDF : 8.1/14

Left: -79.249+/-68.091 χ^2/NDF : 54.0/31

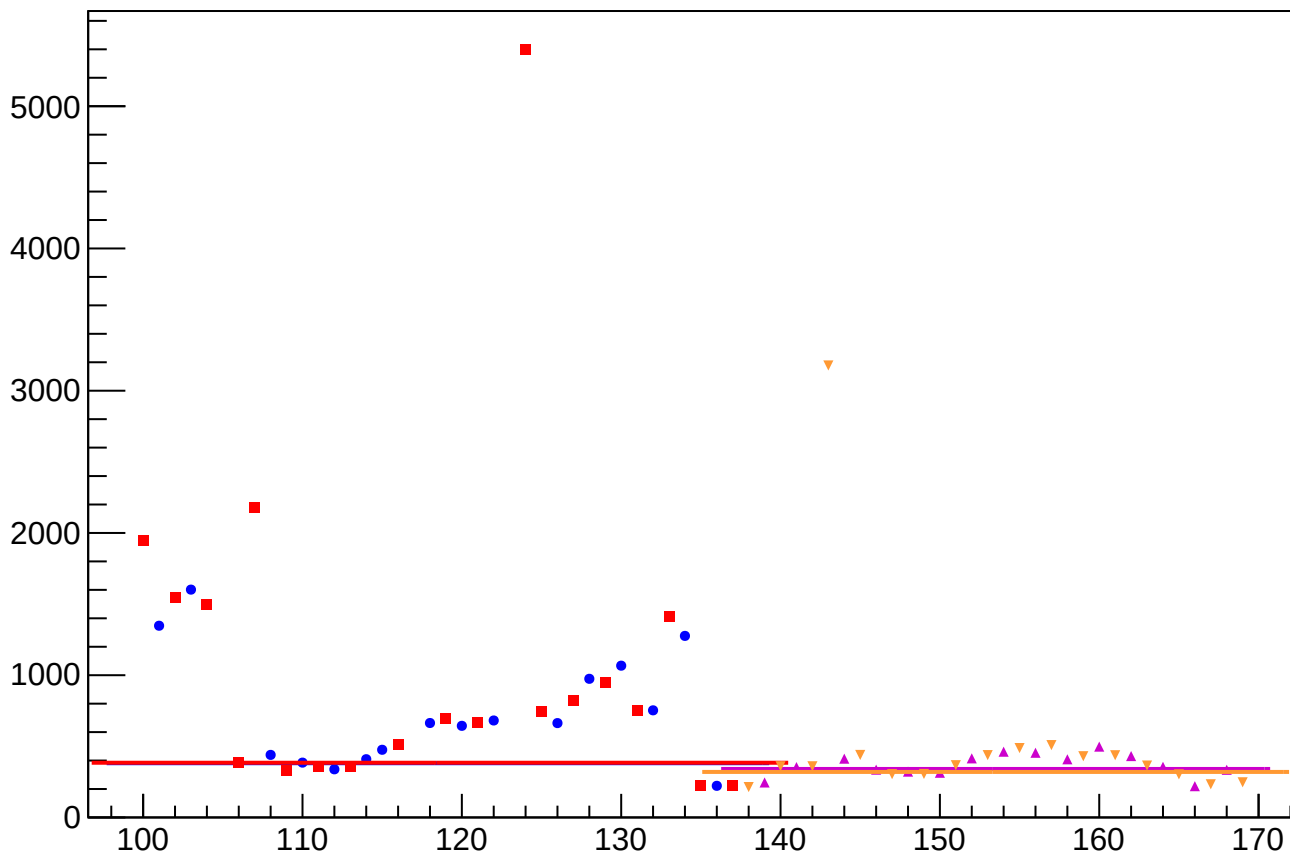
Right: -98.185+/-120.081 χ^2/NDF : 38.8/34

In: -2.360+/-86.042 χ^2/NDF : 32.3/30

Out: -157.264+/-81.661 χ^2/NDF : 58.9/35

All: -83.856+/-59.231 χ^2/NDF : 92.9/66

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 381.359+/-0.120 χ^2/NDF : 4317737.3/15

Left Out: 320.049+/-0.066 χ^2/NDF :3042948.6/16

Right Out: 384.658+/-0.120 χ^2/NDF : 4560068.3/18

Left In: 340.896+/-0.071 χ^2/NDF :1222165.2/14

Left: 329.759+/-0.048 χ^2/NDF : 4311764.2/31

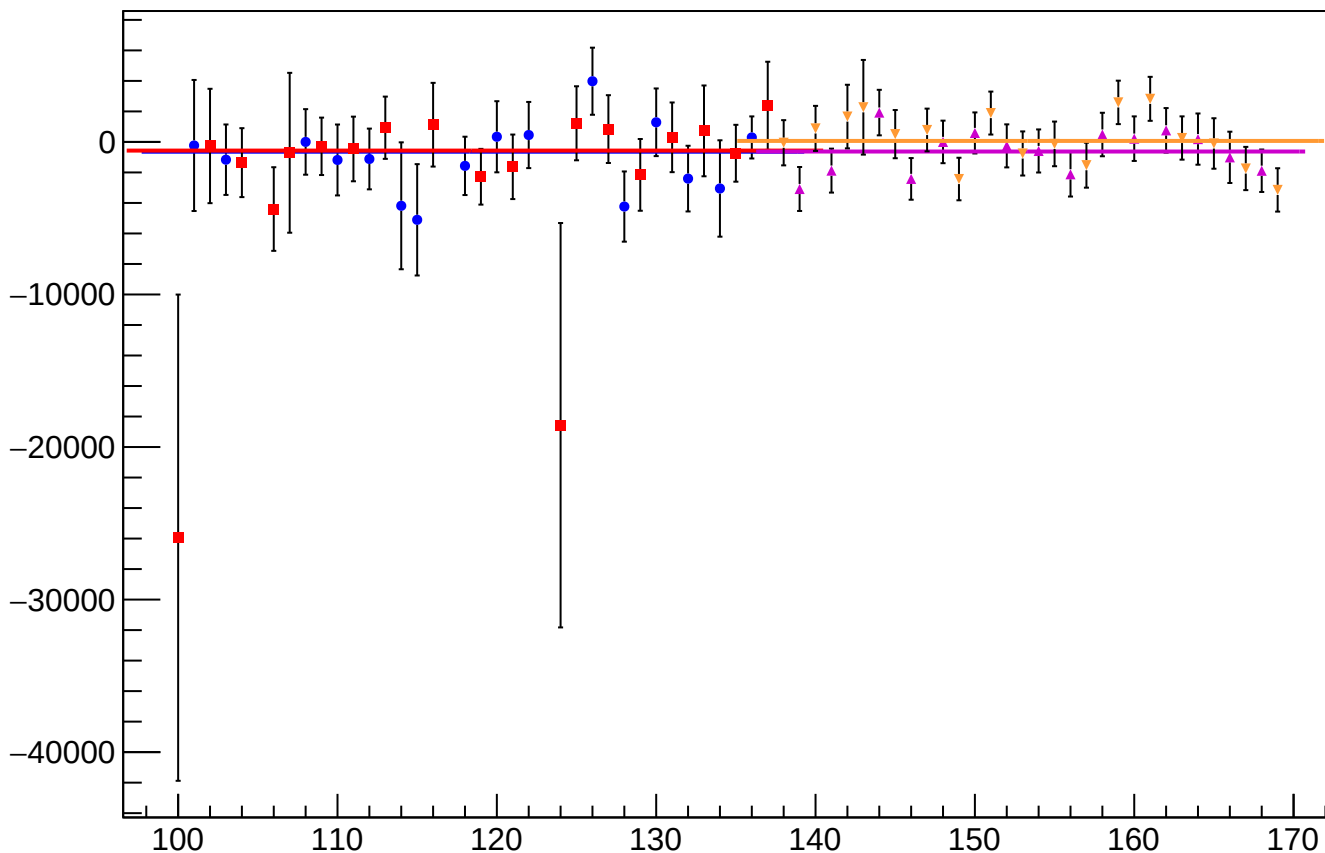
Right: 383.012+/-0.085 χ^2/NDF : 8878183.1/34

In: 351.265+/-0.061 χ^2/NDF :5624199.5/30

Out: 335.015+/-0.058 χ^2/NDF :7825856.9/35

All: 342.716+/-0.042 χ^2/NDF : 13487583.8/66

asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected



Right In: -640.824+/-564.366 χ^2/NDF : 12.5/15

Left Out: 65.816+/-367.345 χ^2/NDF : 21.7/16

Right Out: -567.254+/-566.774 χ^2/NDF : 11.3/18

Left In: -628.888+/-374.124 χ^2/NDF : 13.4/14

Left: -275.185+/-262.116 χ^2/NDF : 36.9/31

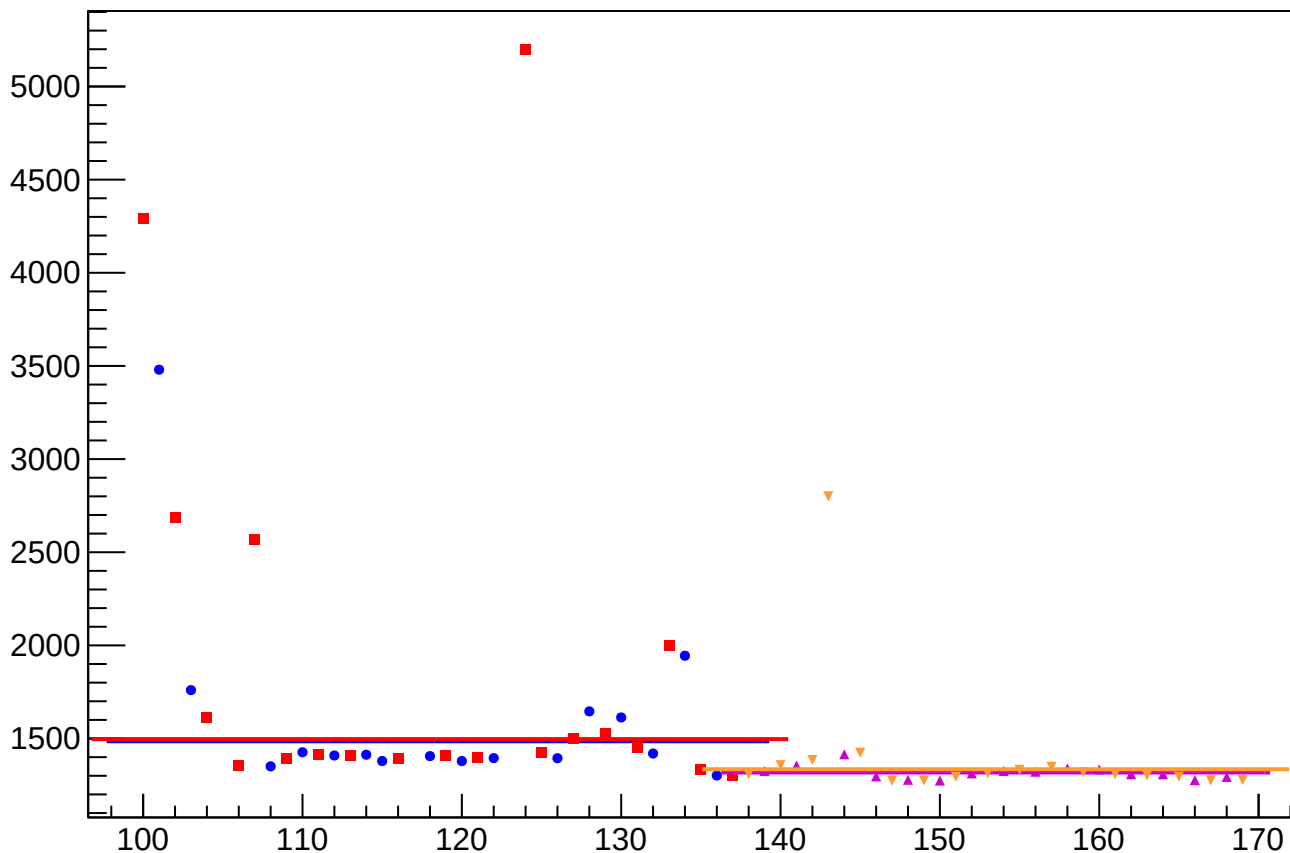
Right: -604.196+/-399.916 χ^2/NDF : 23.8/34

In: -632.532+/-311.830 χ^2/NDF : 25.9/30

Out: -121.454+/-308.261 χ^2/NDF : 33.9/35

All: -374.051+/-219.224 χ^2/NDF : 61.2/66

asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected



Right In: 1485.370 ± 0.399 $\chi^2/\text{NDF}: 584470.1/15$

Left Out: 1335.043 ± 0.260 $\chi^2/\text{NDF}: 473907.4/16$

Right Out: 1496.865 ± 0.401 $\chi^2/\text{NDF}: 623292.7/18$

Left In: 1317.605 ± 0.265 $\chi^2/\text{NDF}: 16823.5/14$

Left: 1326.483 ± 0.185 $\chi^2/\text{NDF}: 492943.0/31$

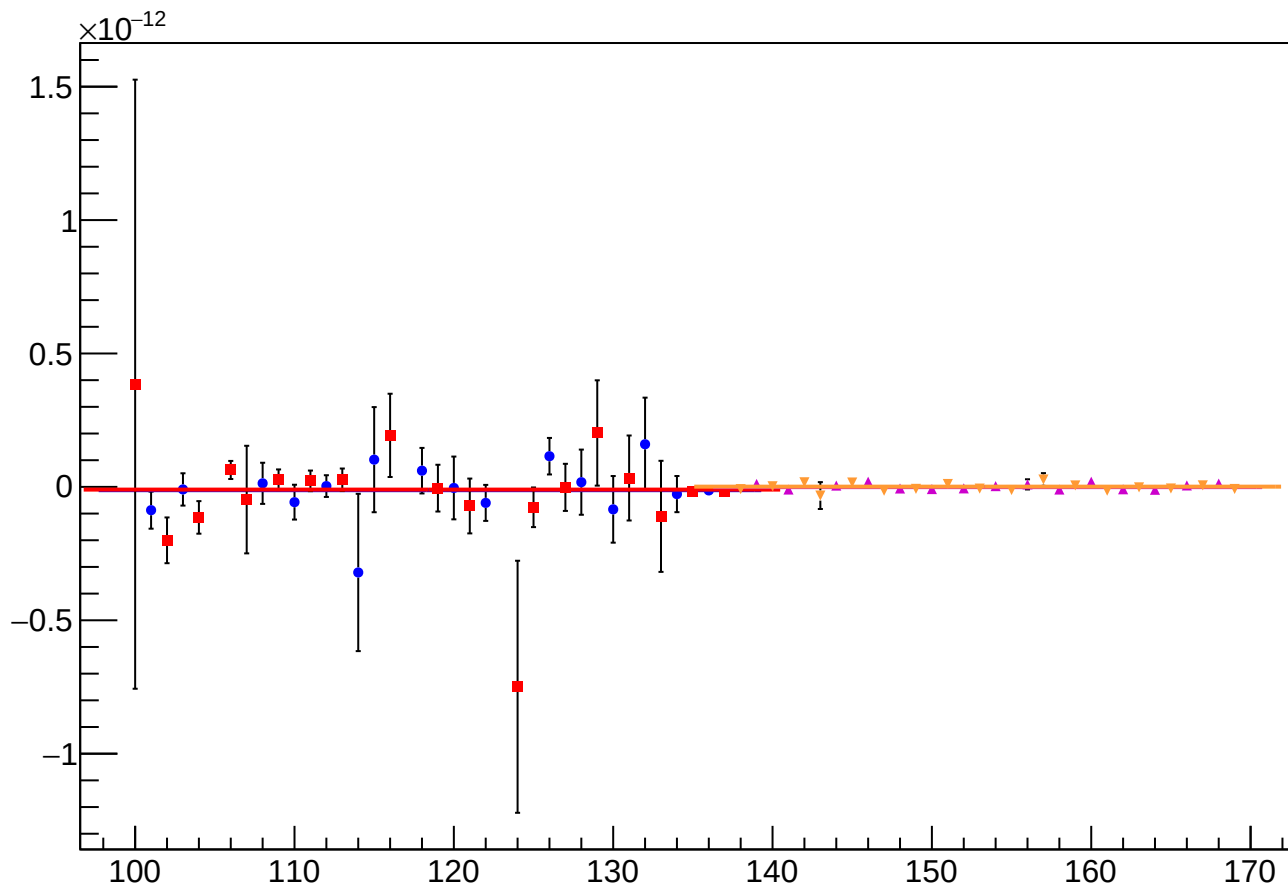
Right: 1491.093 ± 0.283 $\chi^2/\text{NDF}: 1208175.9/34$

In: 1368.822 ± 0.220 $\chi^2/\text{NDF}: 724070.5/30$

Out: 1382.912 ± 0.218 $\chi^2/\text{NDF}: 1212010.2/35$

All: 1375.948 ± 0.155 $\chi^2/\text{NDF}: 1938145.8/66$

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_slug_sign_corrected



Right In: -0.000+/-0.000 χ^2/NDF : 9.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :15.5/16

Right Out: -0.000+/-0.000 χ^2/NDF : 22.3/18

Left In: -0.000+/-0.000 χ^2/NDF :15.5/14

Left: 0.000+/-0.000 χ^2/NDF : 31.3/31

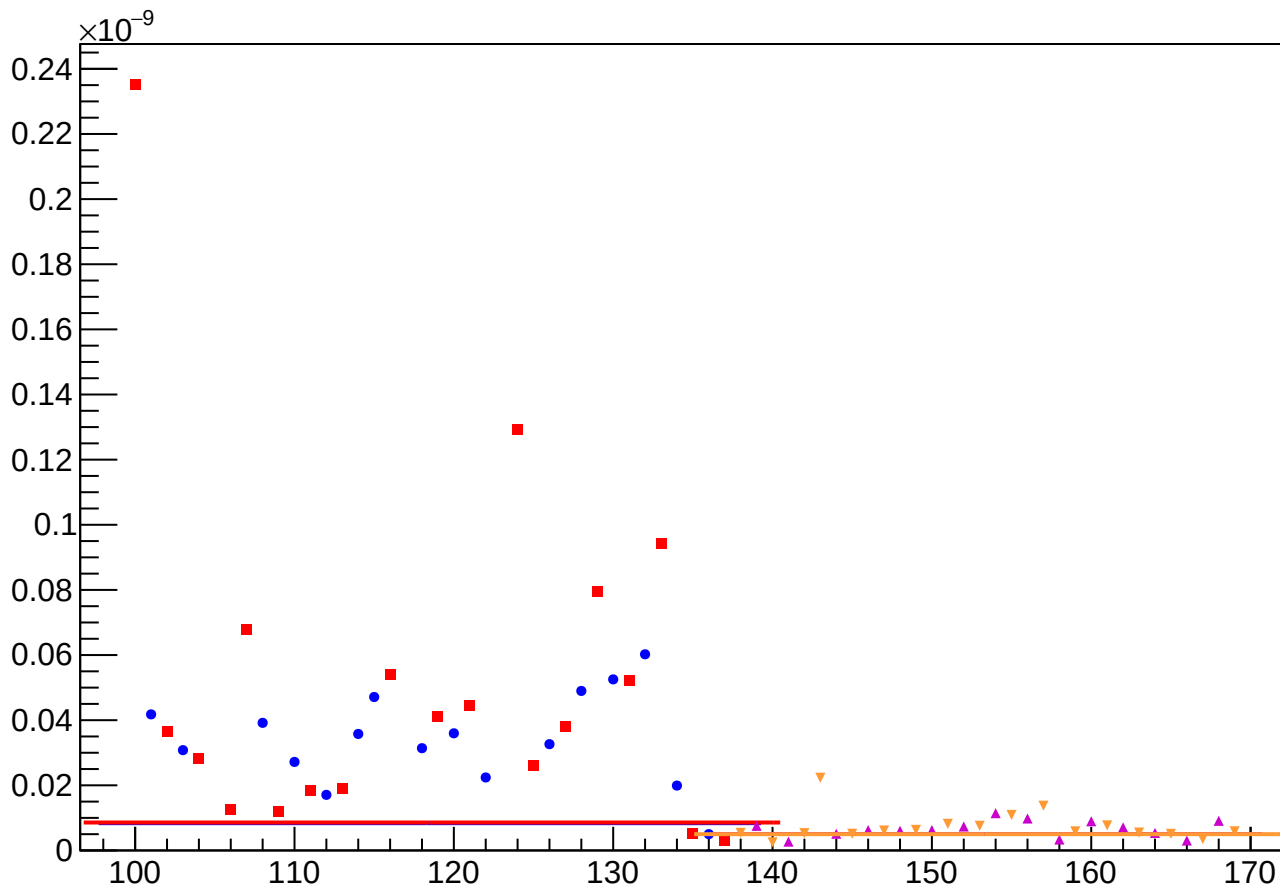
Right: -0.000+/-0.000 χ^2/NDF : 31.8/34

In: -0.000+/-0.000 χ^2/NDF :27.1/30

Out: 0.000+/-0.000 χ^2/NDF :39.6/35

All: -0.000+/-0.000 χ^2/NDF : 67.1/66

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3059657.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1774661.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3348571.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 1575056.4/14

Left: 0.000+/-0.000 χ^2/NDF : 3350234.8/31

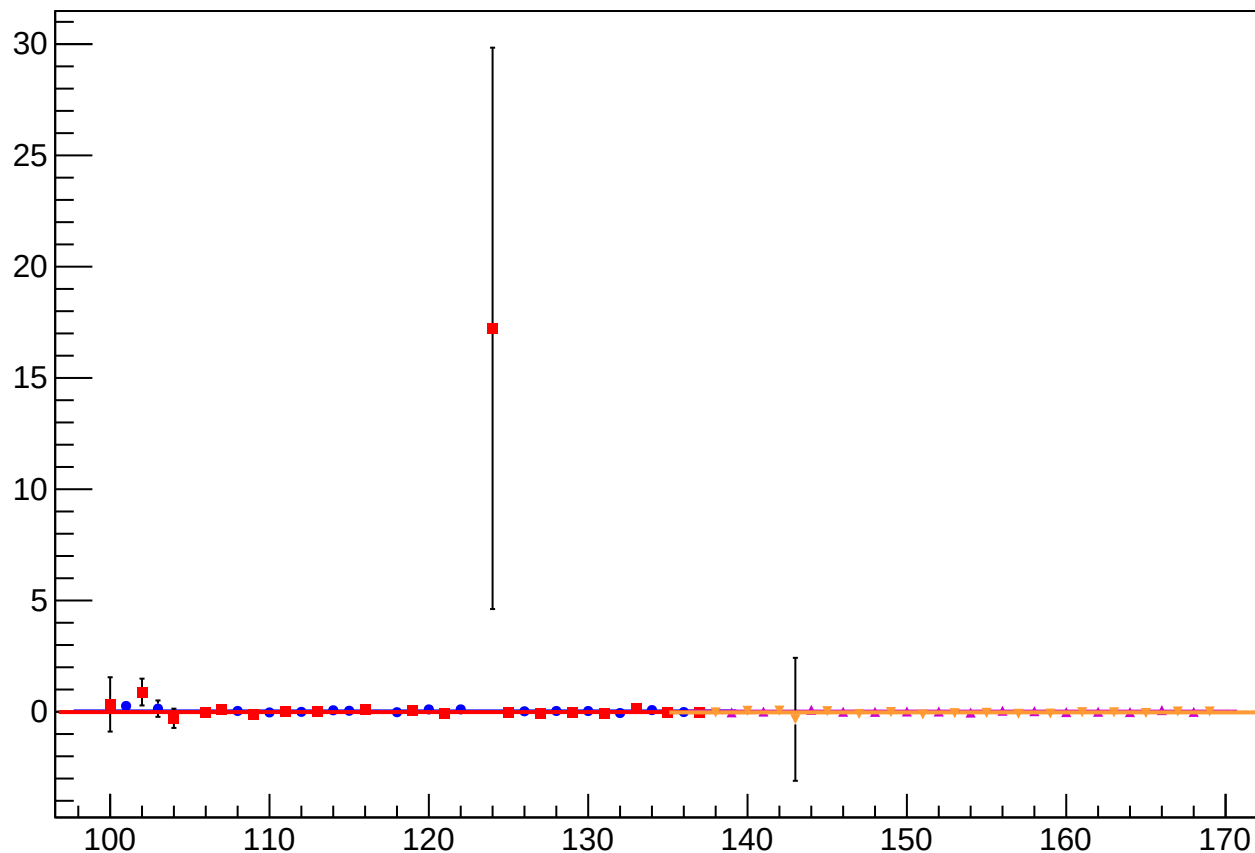
Right: 0.000+/-0.000 χ^2/NDF : 6408892.5/34

In: 0.000+/-0.000 χ^2/NDF : 4994521.1/30

Out: 0.000+/-0.000 χ^2/NDF : 5490776.8/35

All: 0.000+/-0.000 χ^2/NDF : 10487781.2/66

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.015 χ^2/NDF : 11.5/15

Left Out: -0.027+/-0.010 χ^2/NDF : 23.4/16

Right Out: -0.014+/-0.016 χ^2/NDF : 16.0/18

Left In: 0.008+/-0.010 χ^2/NDF : 8.8/14

Left: -0.011+/-0.007 χ^2/NDF : 38.6/31

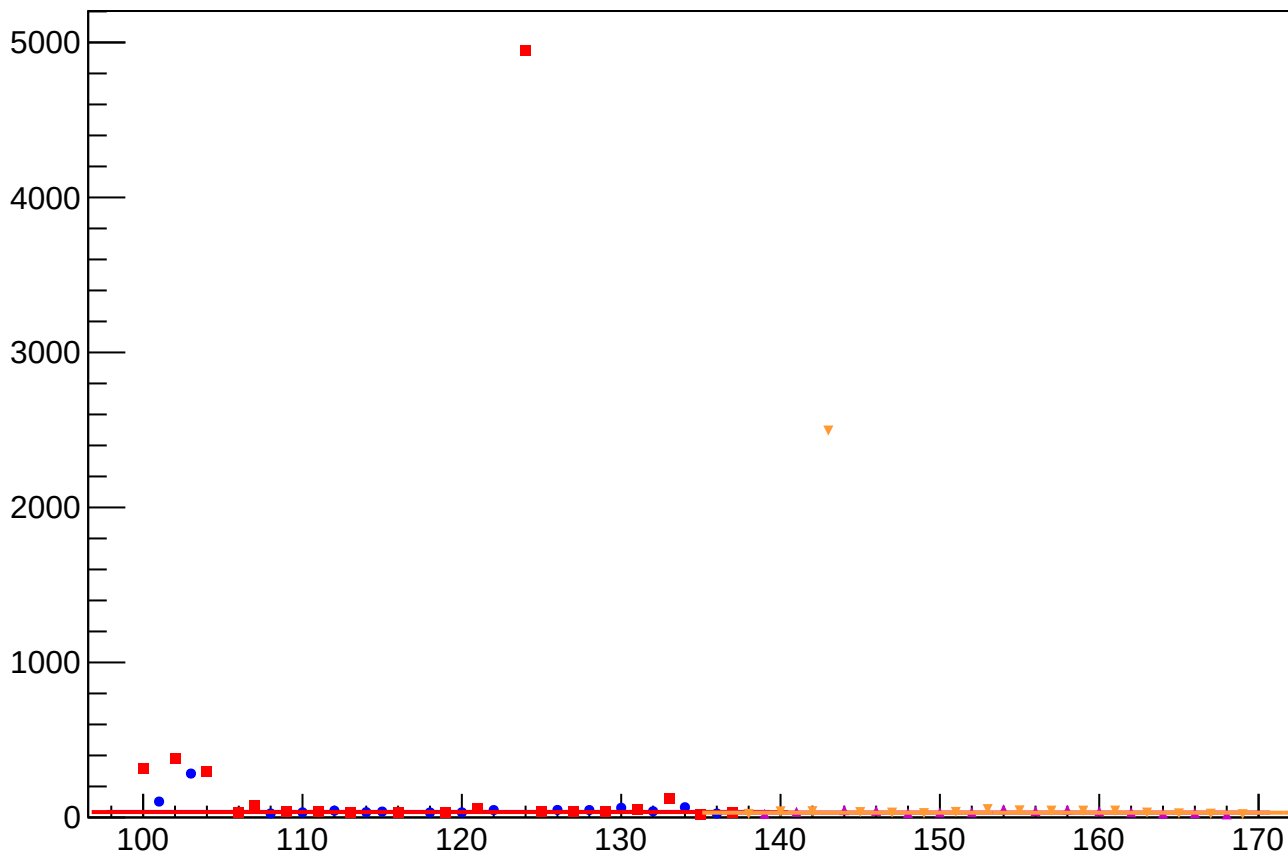
Right: 0.002+/-0.011 χ^2/NDF : 29.4/34

In: 0.010+/-0.008 χ^2/NDF : 20.5/30

Out: -0.024+/-0.008 χ^2/NDF : 40.0/35

All: -0.007+/-0.006 χ^2/NDF : 68.9/66

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_Slug, Sign Corrected



Right In: 35.742 $\pm$ 0.011 χ^2 /NDF: 2264790.8/15

Left Out: 30.761 $\pm$ 0.007 χ^2 /NDF:3203512.0/16

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 31.641 $\pm$ 0.007 χ^2 /NDF:1614263.4/14

Left: 31.182 $\pm$ 0.005 χ^2 /NDF: 4825815.3/31

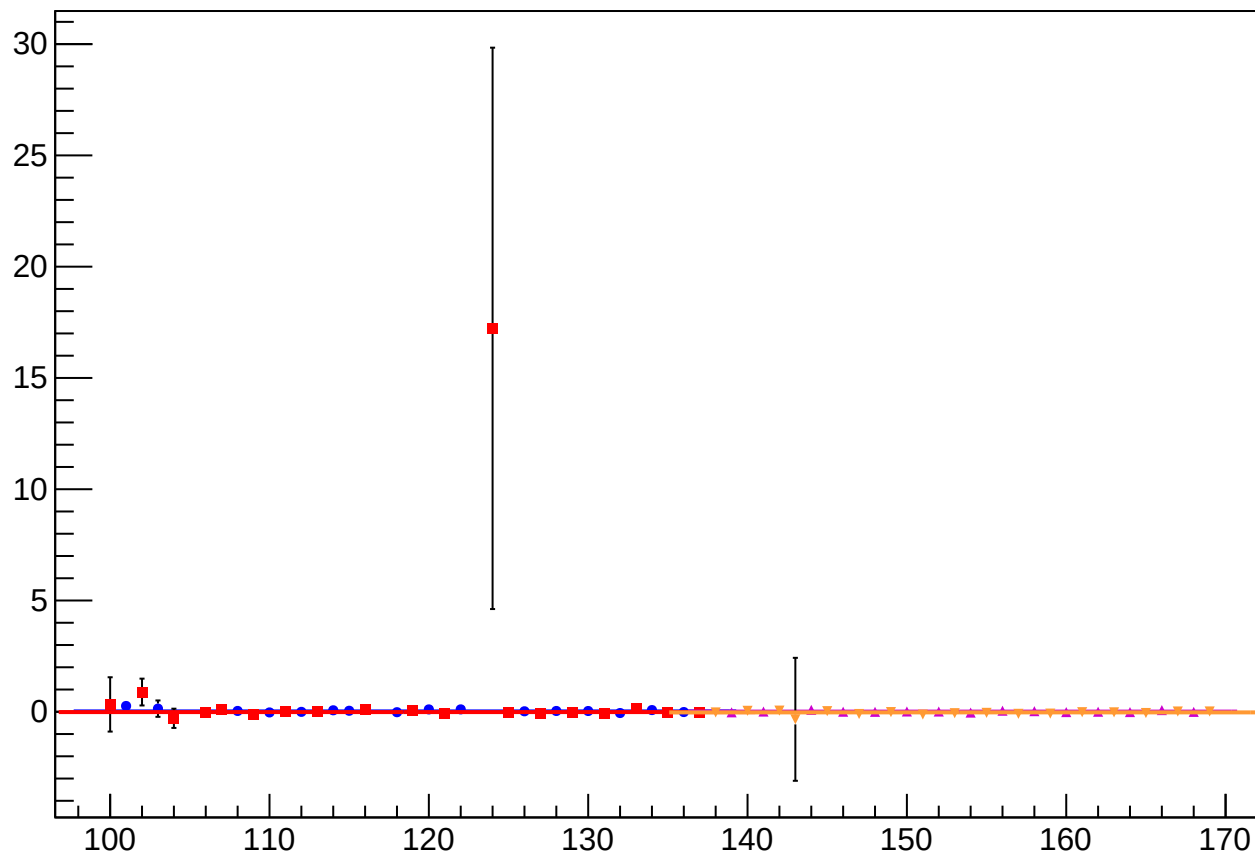
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 32.858 $\pm$ 0.006 χ^2 /NDF:3978191.3/30

Out: 31.867 $\pm$ 0.006 χ^2 /NDF:6214561.7/35

All: 32.349 $\pm$ 0.004 χ^2 /NDF: 10206999.9/66

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 ± 0.015 $\chi^2/\text{NDF}: 11.5/15$

Left Out: -0.027 ± 0.010 $\chi^2/\text{NDF}: 23.4/16$

Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$

Left In: 0.008 ± 0.010 $\chi^2/\text{NDF}: 8.8/14$

Left: -0.011 ± 0.007 $\chi^2/\text{NDF}: 38.6/31$

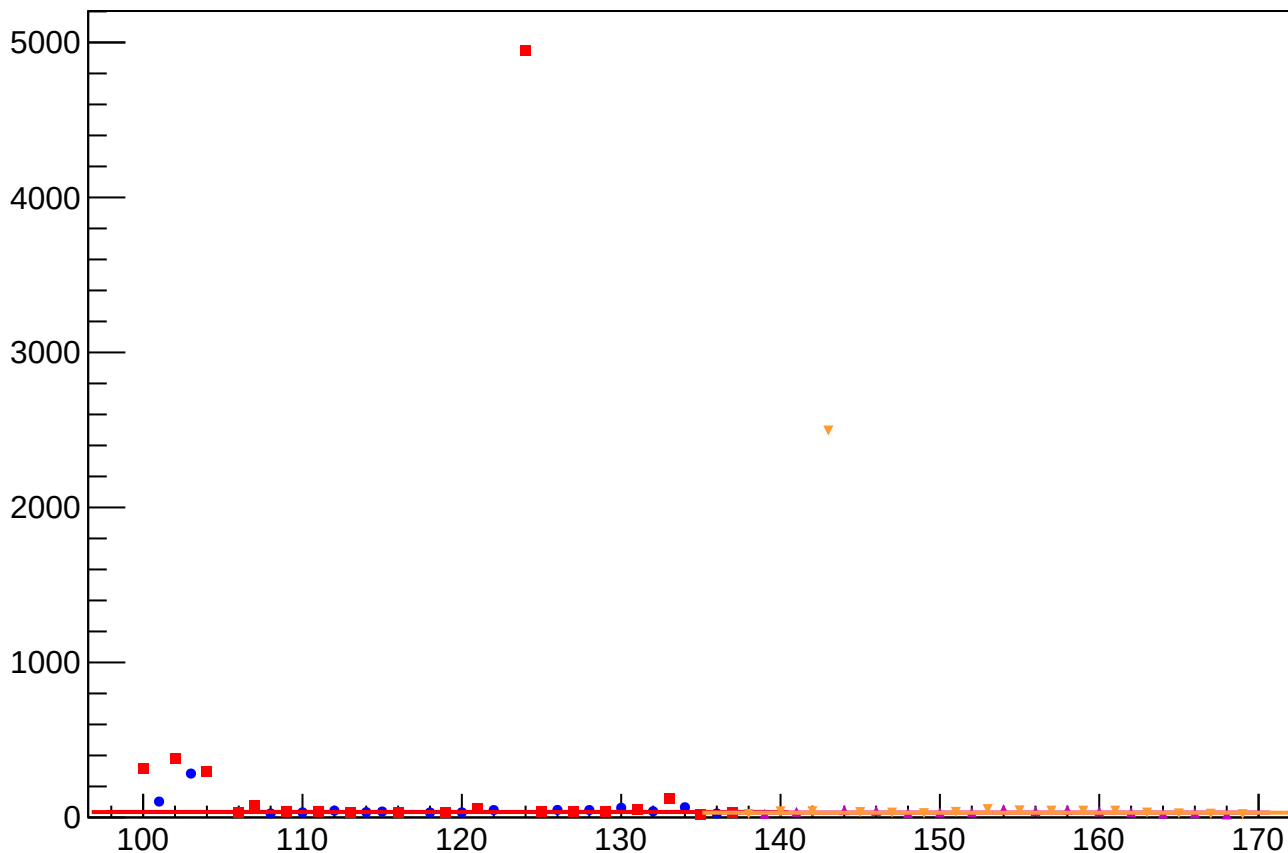
Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$

In: 0.010 ± 0.008 $\chi^2/\text{NDF}: 20.5/30$

Out: -0.024 ± 0.008 $\chi^2/\text{NDF}: 40.0/35$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 68.9/66$

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.742 $\pm$ 0.011 χ^2 /NDF: 2264790.8/15

Left Out: 30.761 $\pm$ 0.007 χ^2 /NDF:3203512.0/16

Right Out: 34.797 $\pm$ 0.011 χ^2 /NDF: 2914137.1/18

Left In: 31.641 $\pm$ 0.007 χ^2 /NDF:1614263.4/14

Left: 31.182 $\pm$ 0.005 χ^2 /NDF: 4825815.3/31

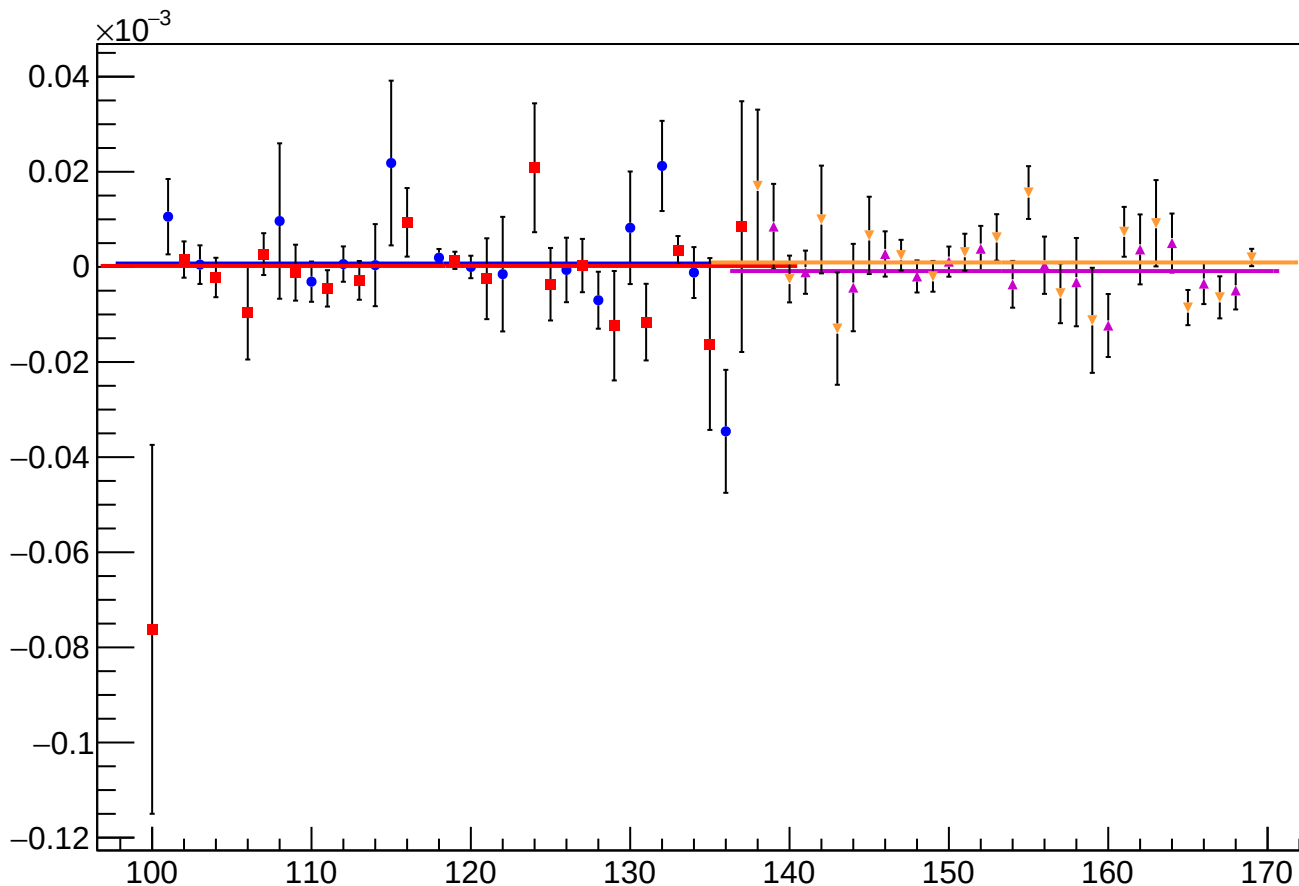
Right: 35.274 $\pm$ 0.008 χ^2 /NDF: 5182629.3/34

In: 32.858 $\pm$ 0.006 χ^2 /NDF:3978191.3/30

Out: 31.867 $\pm$ 0.006 χ^2 /NDF:6214561.7/35

All: 32.349 $\pm$ 0.004 χ^2 /NDF: 10206999.9/66

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 19.1/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:27.8/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 18.1/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:9.4/14

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 38.4/31

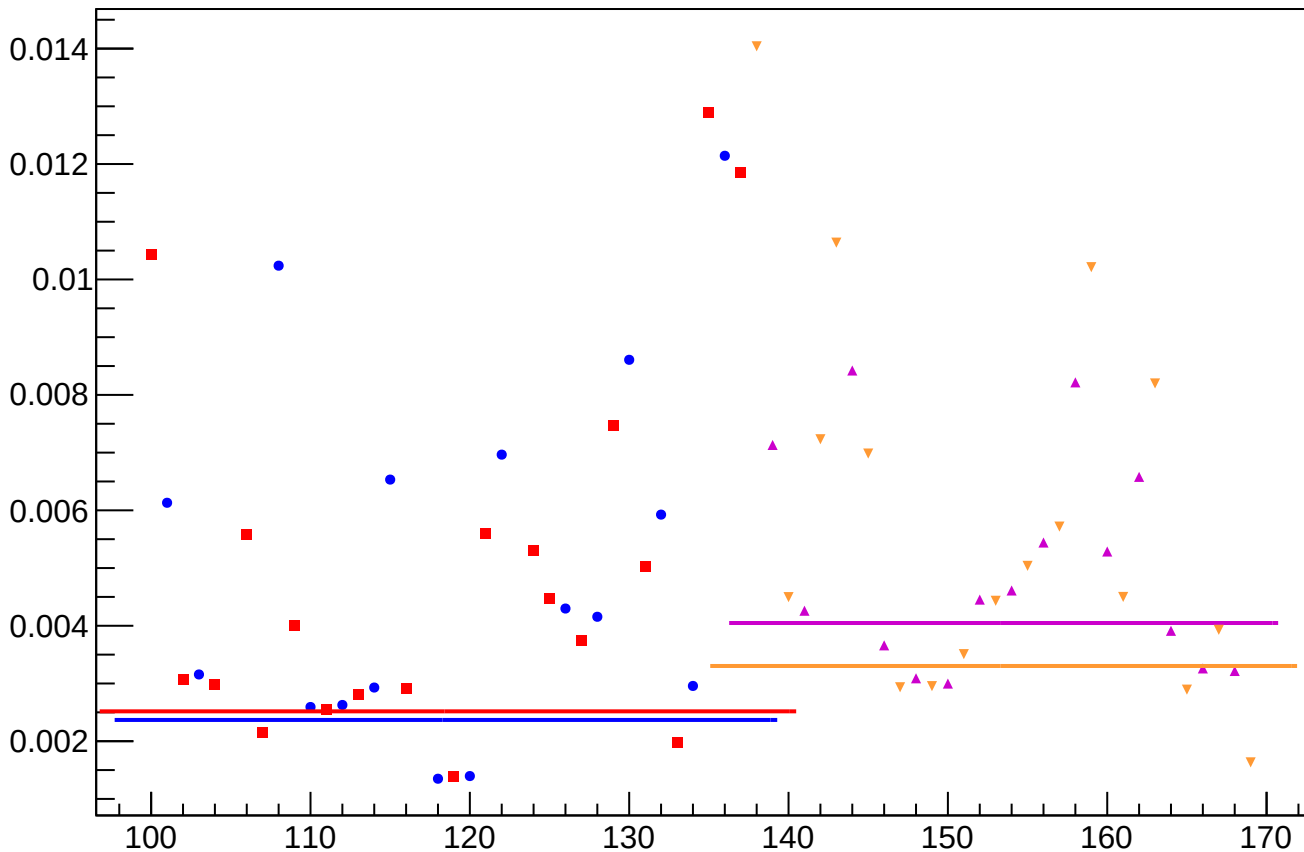
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 37.3/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:29.3/30

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:46.1/35

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 75.7/66

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000

χ^2/NDF : 4721602.1/15

Left Out: 0.003+/-0.000

χ^2/NDF : 6298023.5/16

Right Out: 0.003+/-0.000

χ^2/NDF : 3397462.9/18

Left In: 0.004+/-0.000

χ^2/NDF : 2099825.3/14

Left: 0.004+/-0.000

χ^2/NDF : 8804294.2/31

Right: 0.002+/-0.000

χ^2/NDF : 8137943.7/34

In: 0.003+/-0.000

χ^2/NDF : 8795440.1/30

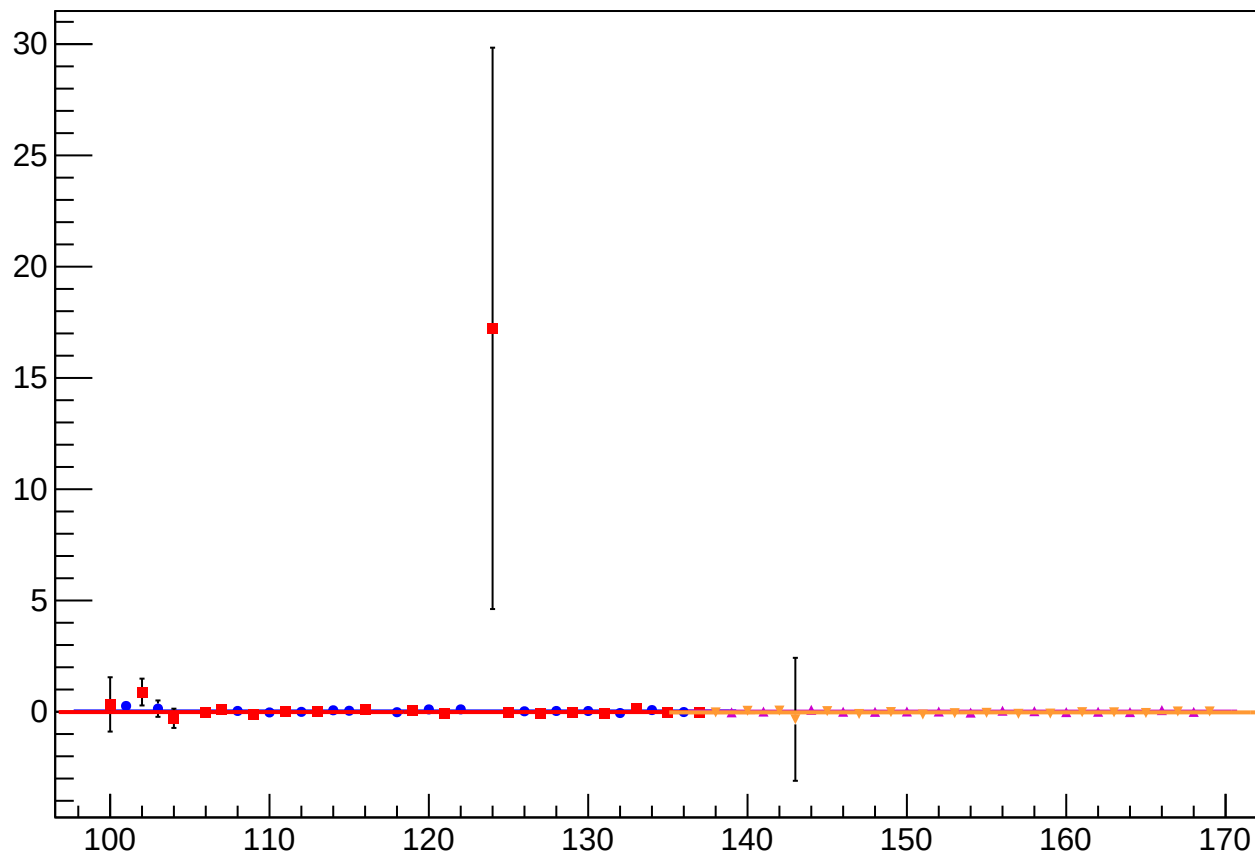
Out: 0.003+/-0.000

χ^2/NDF : 10250252.7/35

All: 0.003+/-0.000

χ^2/NDF : 19091810.5/66

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 ± 0.015 $\chi^2/\text{NDF}: 11.5/15$

Left Out: -0.027 ± 0.010 $\chi^2/\text{NDF}: 23.4/16$

Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$

Left In: 0.008 ± 0.010 $\chi^2/\text{NDF}: 8.8/14$

Left: -0.011 ± 0.007 $\chi^2/\text{NDF}: 38.6/31$

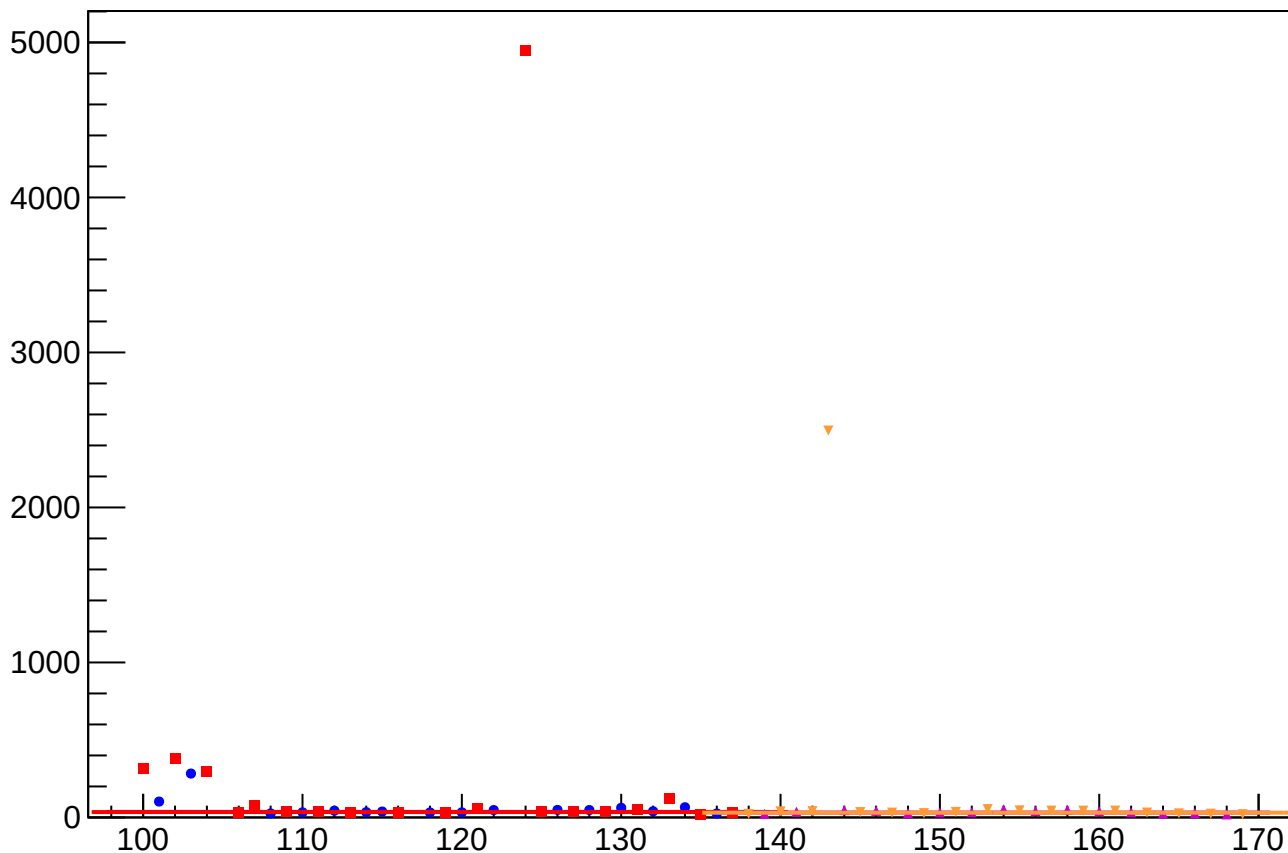
Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$

In: 0.010 ± 0.008 $\chi^2/\text{NDF}: 20.5/30$

Out: -0.024 ± 0.008 $\chi^2/\text{NDF}: 40.0/35$

All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 68.9/66$

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.743+/-0.011 χ^2/NDF : 2264513.9/15

Left Out: 30.761+/-0.007 χ^2/NDF : 3203776.3/16

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 31.640+/-0.007 χ^2/NDF : 1614844.4/14

Left: 31.181+/-0.005 χ^2/NDF : 4826639.6/31

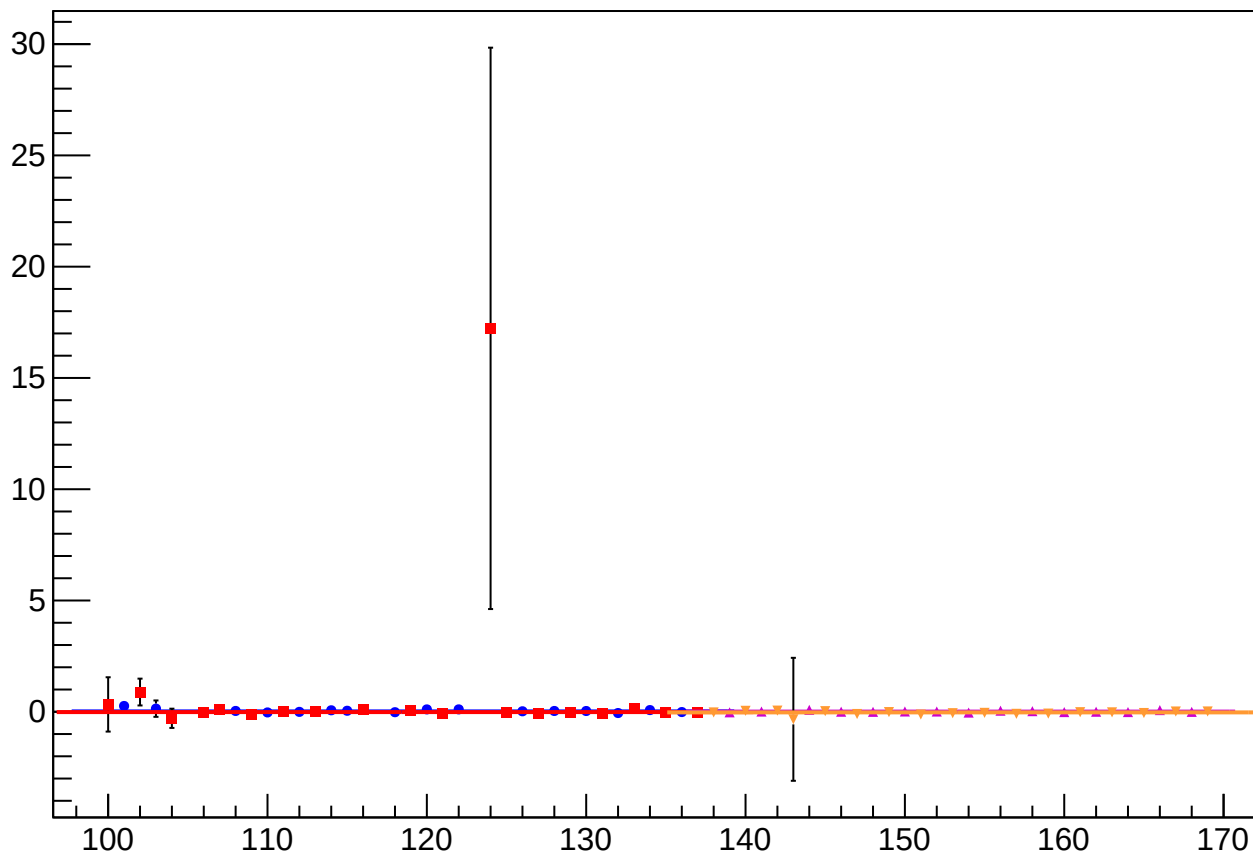
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 32.857+/-0.006 χ^2/NDF : 3978633.2/30

Out: 31.867+/-0.006 χ^2/NDF : 6214704.1/35

All: 32.348+/-0.004 χ^2/NDF : 10207564.8/66

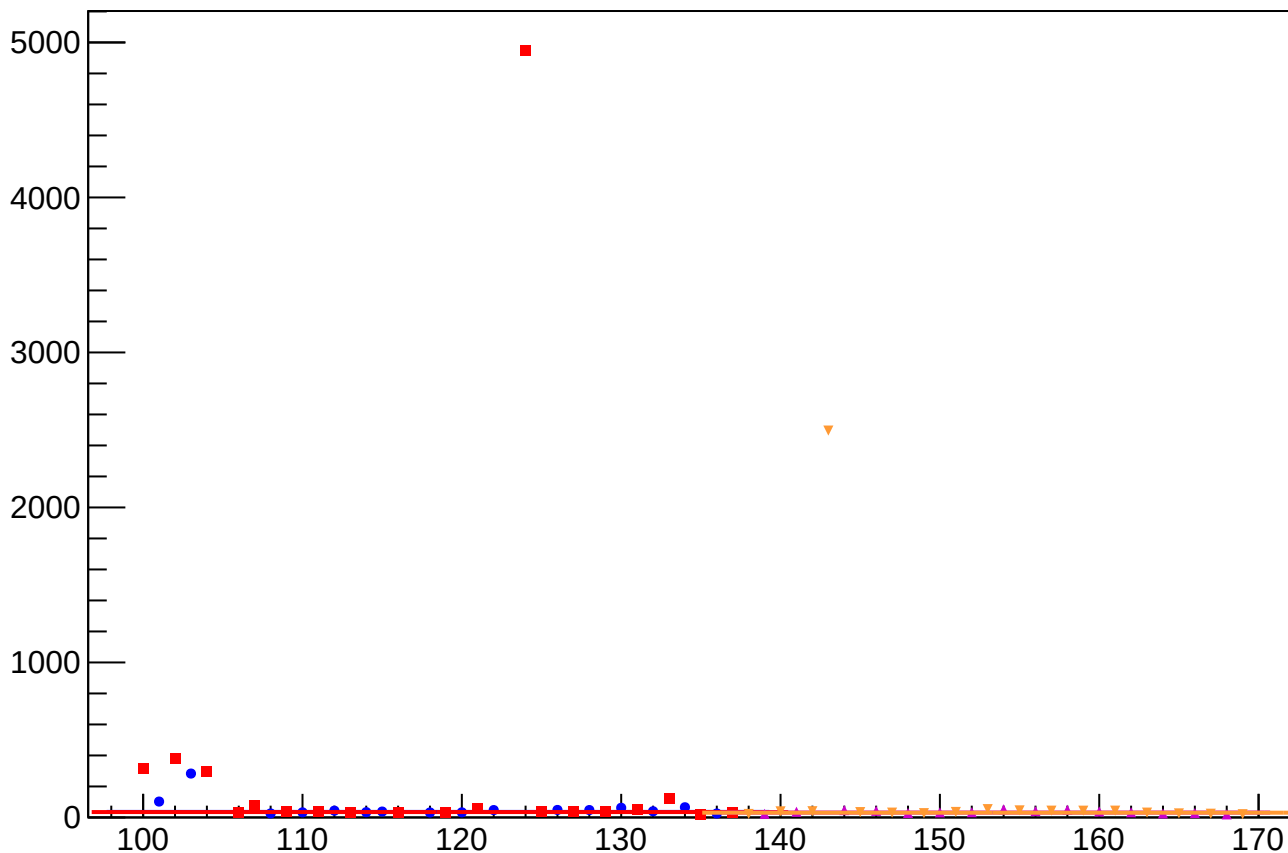
asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.017 ± 0.015 $\chi^2/\text{NDF}: 11.5/15$
 Left Out: -0.027 ± 0.010 $\chi^2/\text{NDF}: 23.4/16$
 Right Out: -0.014 ± 0.016 $\chi^2/\text{NDF}: 16.0/18$
 Left In: 0.008 ± 0.010 $\chi^2/\text{NDF}: 8.8/14$

Left: -0.011 ± 0.007 $\chi^2/\text{NDF}: 38.6/31$
 Right: 0.002 ± 0.011 $\chi^2/\text{NDF}: 29.4/34$
 In: 0.010 ± 0.008 $\chi^2/\text{NDF}: 20.5/30$
 Out: -0.024 ± 0.008 $\chi^2/\text{NDF}: 40.0/35$
 All: -0.007 ± 0.006 $\chi^2/\text{NDF}: 68.9/66$

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 35.743+/-0.011 χ^2/NDF : 2264513.9/15

Left Out: 30.761+/-0.007 χ^2/NDF : 3203776.3/16

Right Out: 34.798+/-0.011 χ^2/NDF : 2913962.5/18

Left In: 31.640+/-0.007 χ^2/NDF : 1614844.4/14

Left: 31.181+/-0.005 χ^2/NDF : 4826639.6/31

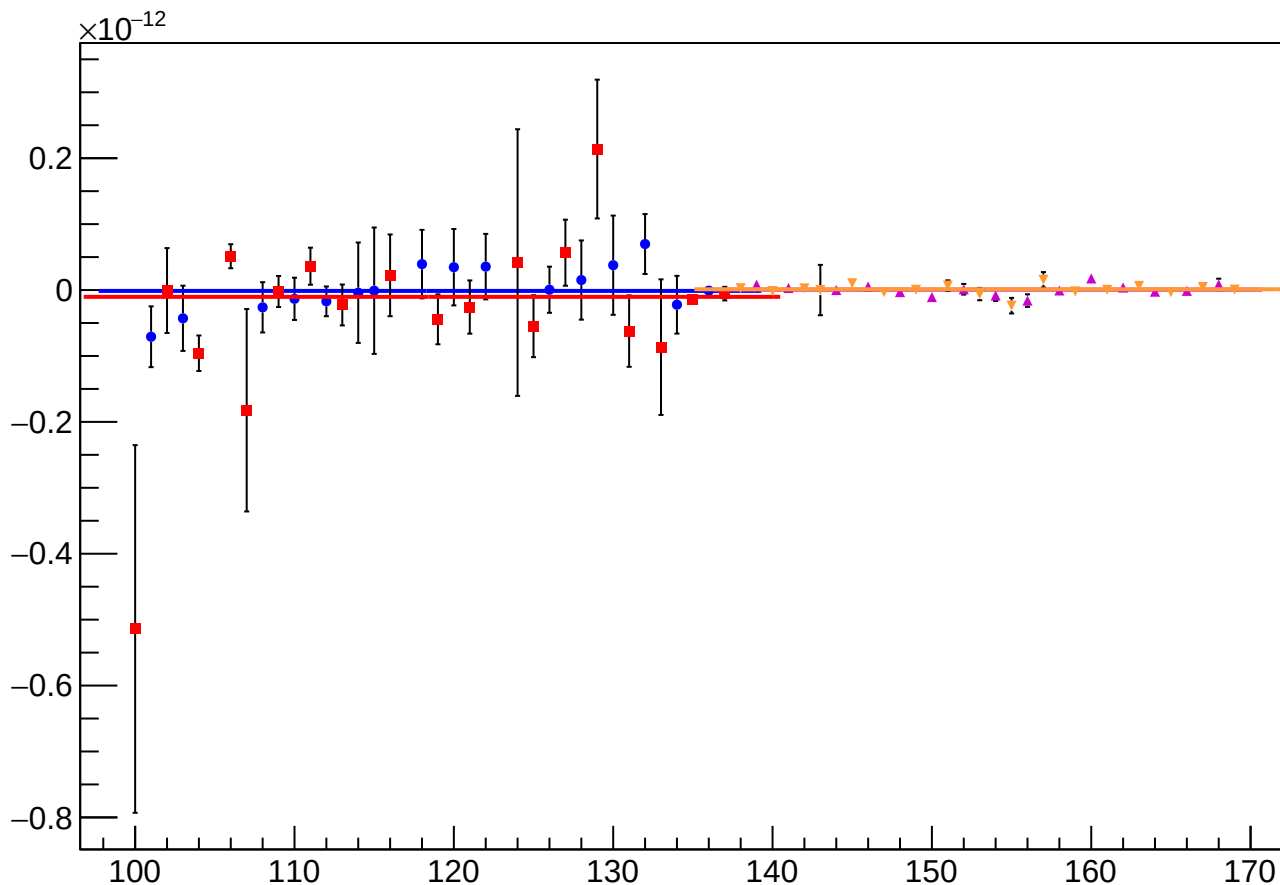
Right: 35.276+/-0.008 χ^2/NDF : 5182182.2/34

In: 32.857+/-0.006 χ^2/NDF : 3978633.2/30

Out: 31.867+/-0.006 χ^2/NDF : 6214704.1/35

All: 32.348+/-0.004 χ^2/NDF : 10207564.8/66

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 8.6/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 12.7/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 39.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 18.3/14

Left: 0.000 ± 0.000 χ^2/NDF : 31.1/31

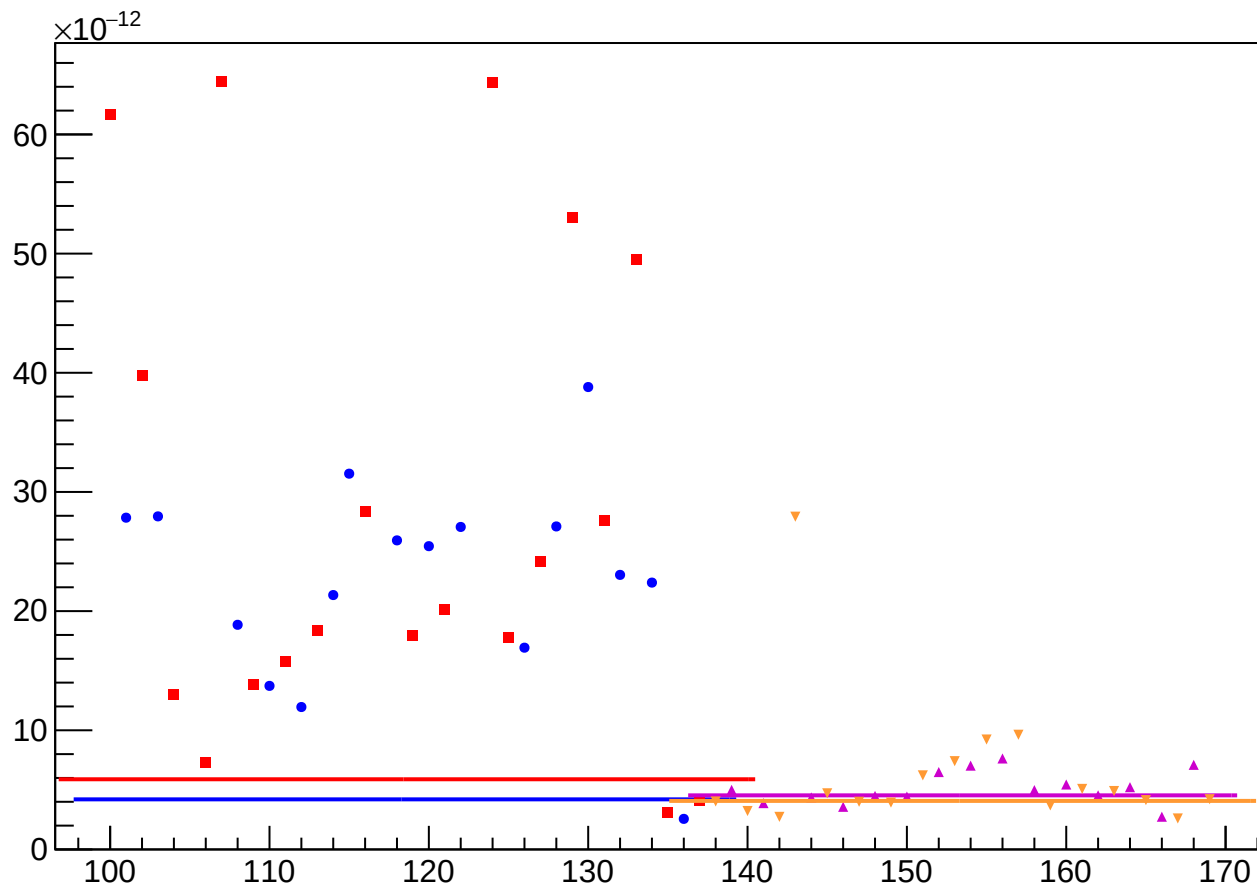
Right: -0.000 ± 0.000 χ^2/NDF : 51.3/34

In: 0.000 ± 0.000 χ^2/NDF : 27.2/30

Out: -0.000 ± 0.000 χ^2/NDF : 59.3/35

All: 0.000 ± 0.000 χ^2/NDF : 86.5/66

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5080225.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2658879.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4860861.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 1235675.0/14

Left: 0.000+/-0.000 χ^2/NDF : 3990132.2/31

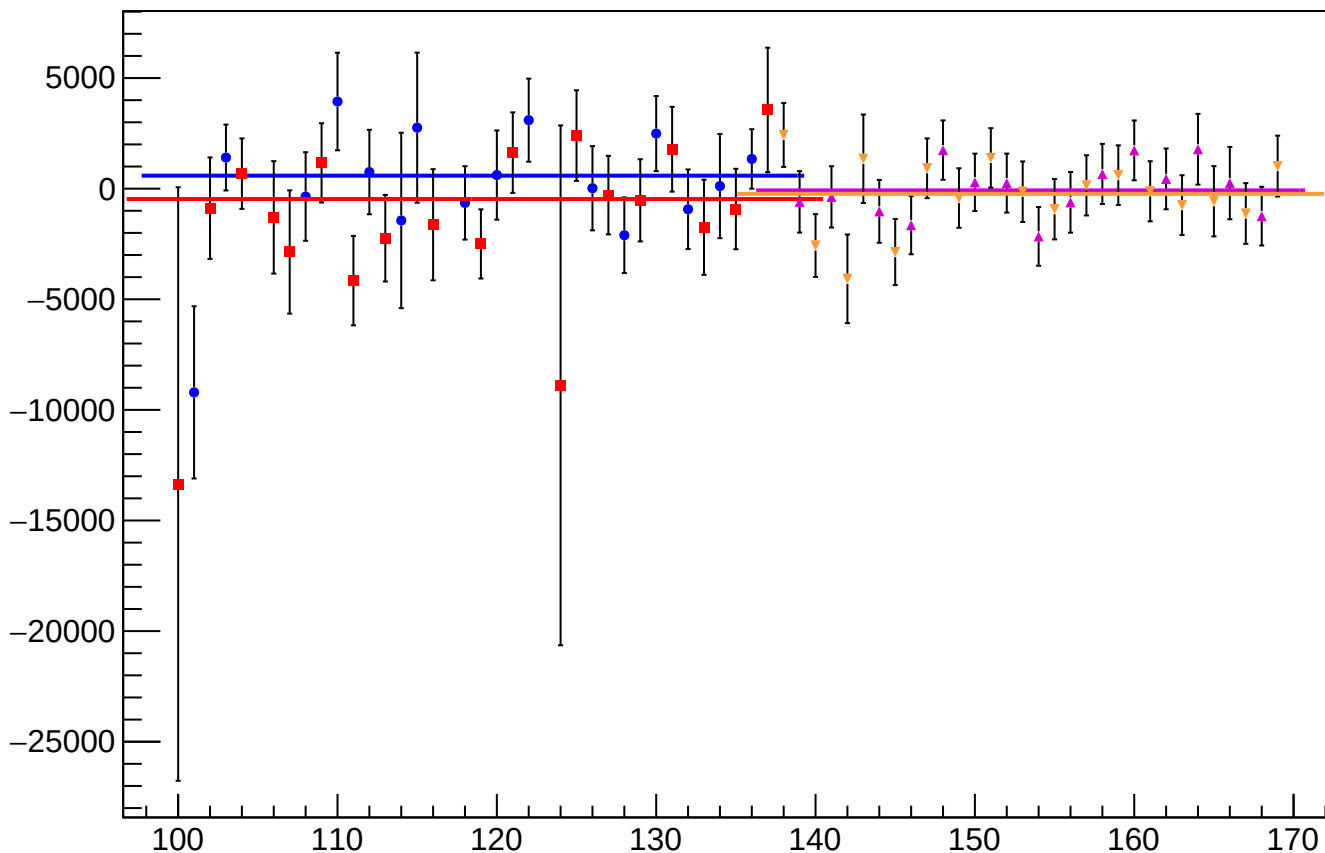
Right: 0.000+/-0.000 χ^2/NDF : 10135954.8/34

In: 0.000+/-0.000 χ^2/NDF : 6331816.4/30

Out: 0.000+/-0.000 χ^2/NDF : 7857474.8/35

All: 0.000+/-0.000 χ^2/NDF : 14213013.5/66

reg_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 586.935 $\pm$ 482.434 χ^2 /NDF: 17.1/15

Left Out: -234.092 $\pm$ 347.367 χ^2 /NDF:17.9/16

Right Out: -469.012 $\pm$ 480.516 χ^2 /NDF: 16.9/18

Left In: -78.029 $\pm$ 356.346 χ^2 /NDF:11.0/14

Left: -158.052 $\pm$ 248.739 χ^2 /NDF: 29.0/31

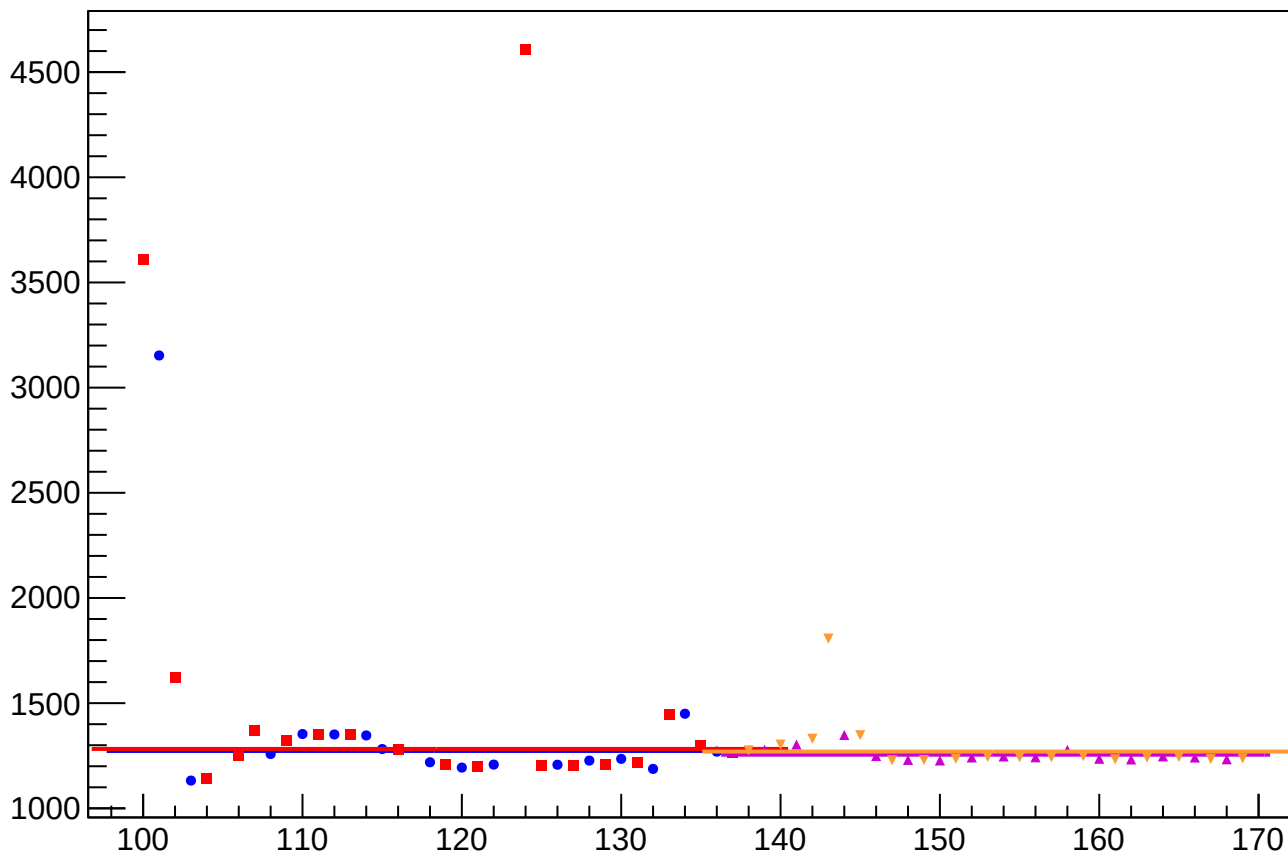
Right: 56.858 $\pm$ 340.452 χ^2 /NDF: 36.3/34

In: 156.703 $\pm$ 286.632 χ^2 /NDF:29.3/30

Out: -314.723 $\pm$ 281.512 χ^2 /NDF:34.9/35

All: -83.258 $\pm$ 200.845 χ^2 /NDF: 65.6/66

reg_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1272.804 $\pm$ 0.341 χ^2 /NDF: 519298.2/15

Left Out: 1269.880 $\pm$ 0.246 χ^2 /NDF: 165900.6/16

Right Out: 1282.365 $\pm$ 0.340 χ^2 /NDF: 322078.6/18

Left In: 1255.069 $\pm$ 0.252 χ^2 /NDF: 15976.9/14

Left: 1262.664 $\pm$ 0.176 χ^2 /NDF: 183648.9/31

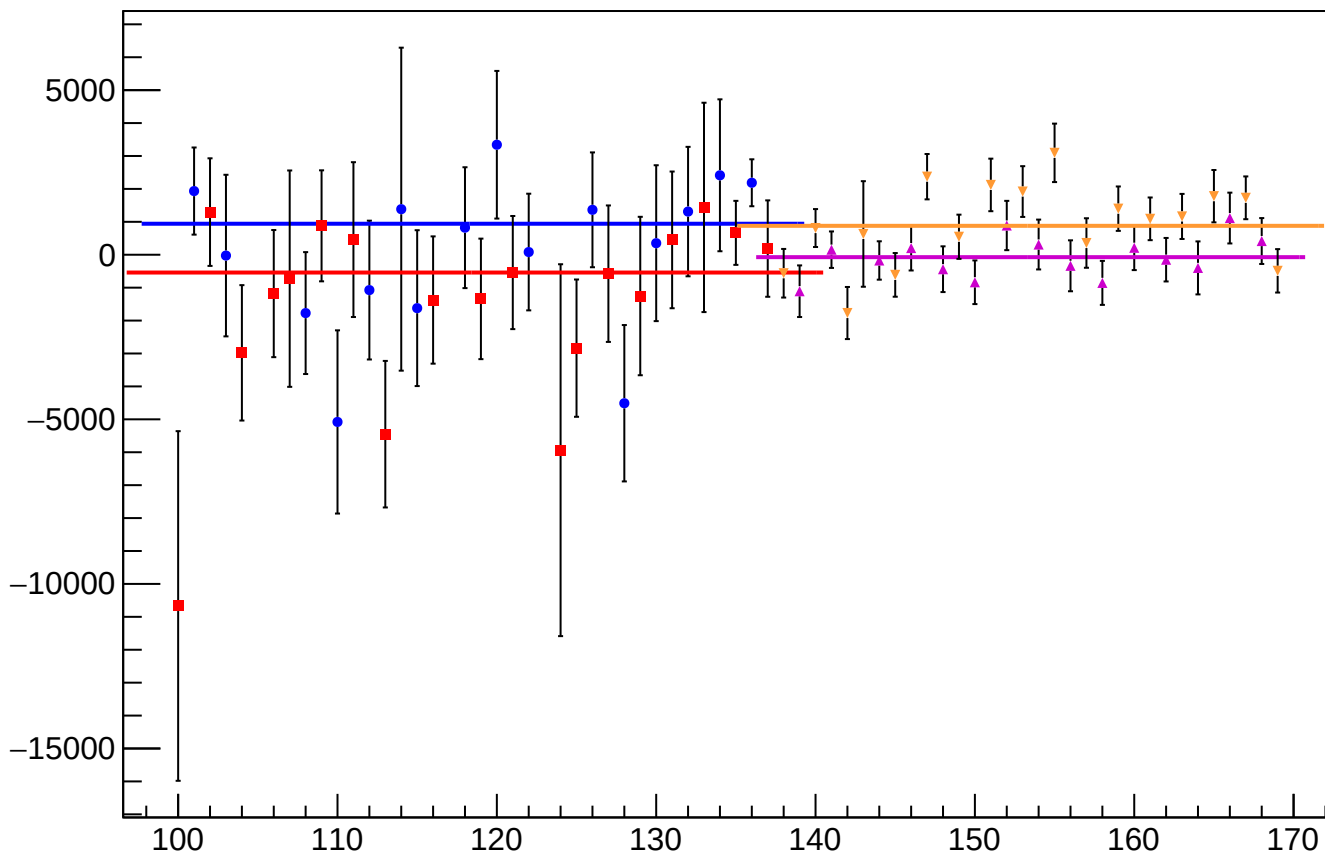
Right: 1277.604 $\pm$ 0.241 χ^2 /NDF: 841771.1/34

In: 1261.330 $\pm$ 0.203 χ^2 /NDF: 537023.7/30

Out: 1274.165 $\pm$ 0.199 χ^2 /NDF: 488866.0/35

All: 1267.863 $\pm$ 0.142 χ^2 /NDF: 1027931.1/66

asym_at1_dd_at2_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: 941.759 ± 425.837 $\chi^2/\text{NDF}: 19.9/15$

Left Out: 878.484 ± 174.941 $\chi^2/\text{NDF}: 44.2/16$

Right Out: -540.622 ± 439.905 $\chi^2/\text{NDF}: 17.2/18$

Left In: -73.375 ± 178.152 $\chi^2/\text{NDF}: 10.3/14$

Left: 411.208 ± 124.822 $\chi^2/\text{NDF}: 69.0/31$

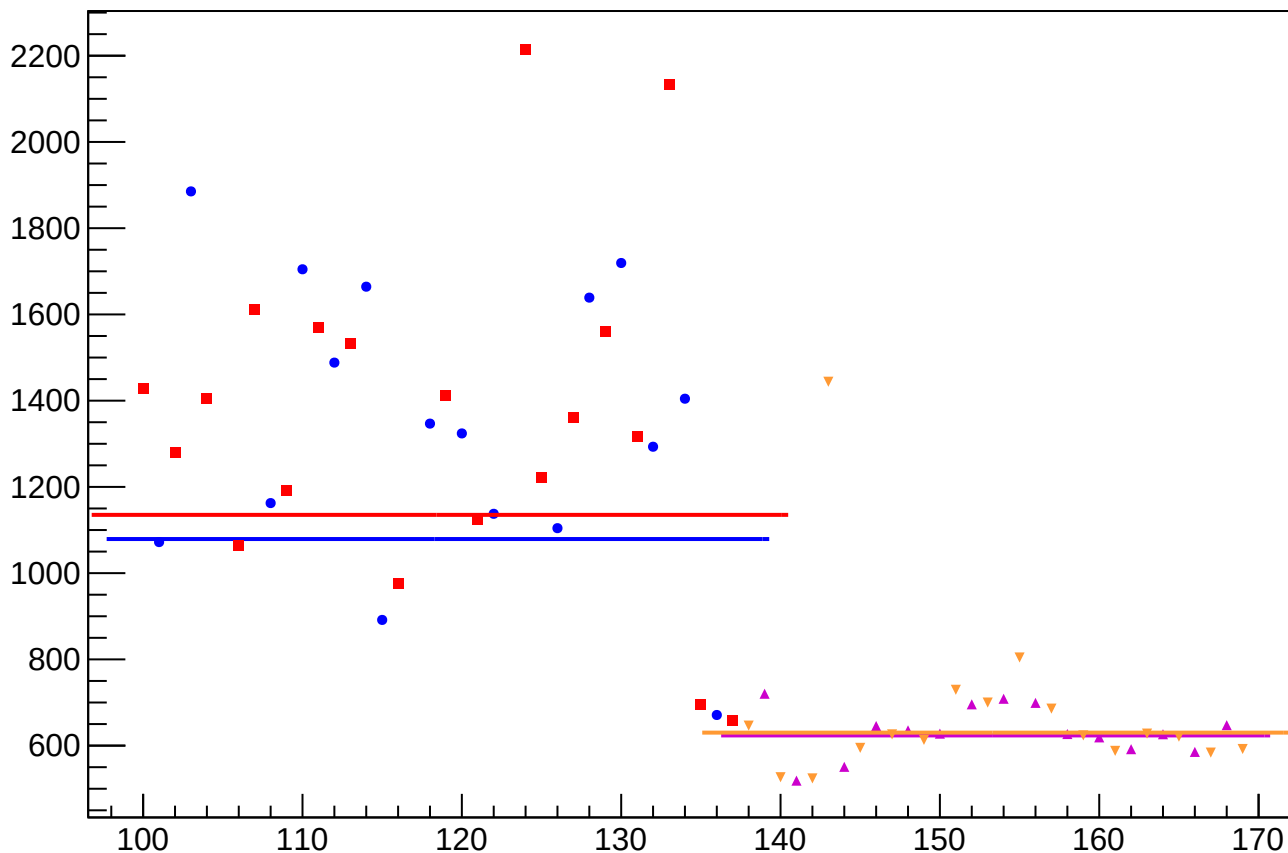
Right: 224.651 ± 305.965 $\chi^2/\text{NDF}: 42.9/34$

In: 77.832 ± 164.349 $\chi^2/\text{NDF}: 35.1/30$

Out: 684.700 ± 162.559 $\chi^2/\text{NDF}: 70.3/35$

All: 384.589 ± 115.574 $\chi^2/\text{NDF}: 112.3/66$

asym_at1_dd_at2_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1079.120+/-0.301 χ^2/NDF : 1482232.0/15

Left Out: 630.159+/-0.124 χ^2/NDF : 784478.4/16

Right Out: 1135.161+/-0.311 χ^2/NDF : 1293082.2/18

Left In: 623.649+/-0.126 χ^2/NDF : 210798.9/14

Left: 626.963+/-0.088 χ^2/NDF : 996637.2/31

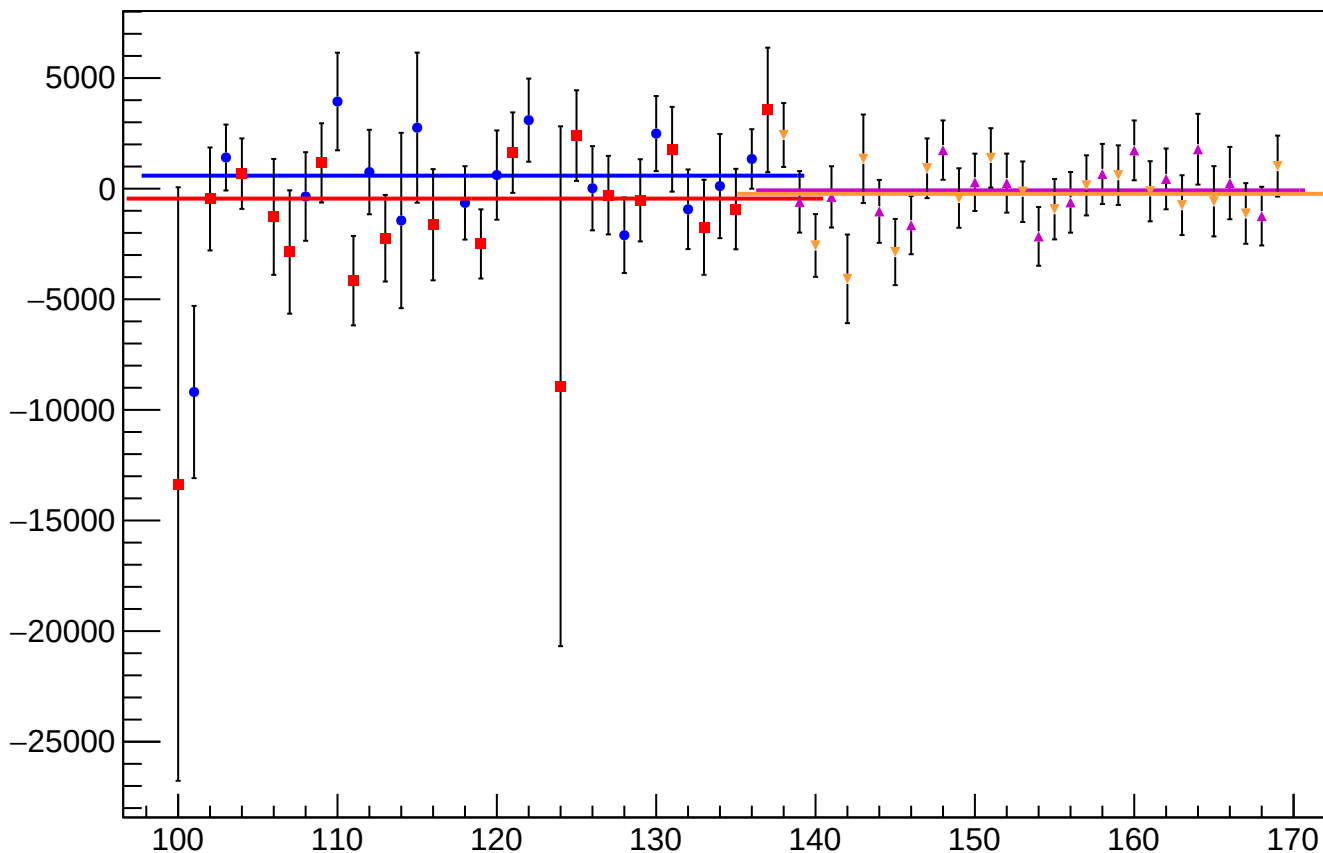
Right: 1106.230+/-0.216 χ^2/NDF : 2792070.7/34

In: 691.492+/-0.116 χ^2/NDF : 3640268.4/30

Out: 699.119+/-0.115 χ^2/NDF : 4353355.9/35

All: 695.347+/-0.082 χ^2/NDF : 7995801.5/66

cor_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 587.254 ± 482.434 χ^2/NDF : 17.1/15

Left Out: -234.182 ± 347.367 χ^2/NDF : 17.9/16

Right Out: -448.412 ± 481.333 χ^2/NDF : 16.8/18

Left In: -78.060 ± 356.346 χ^2/NDF : 11.0/14

Left: -158.113 ± 248.739 χ^2/NDF : 29.0/31

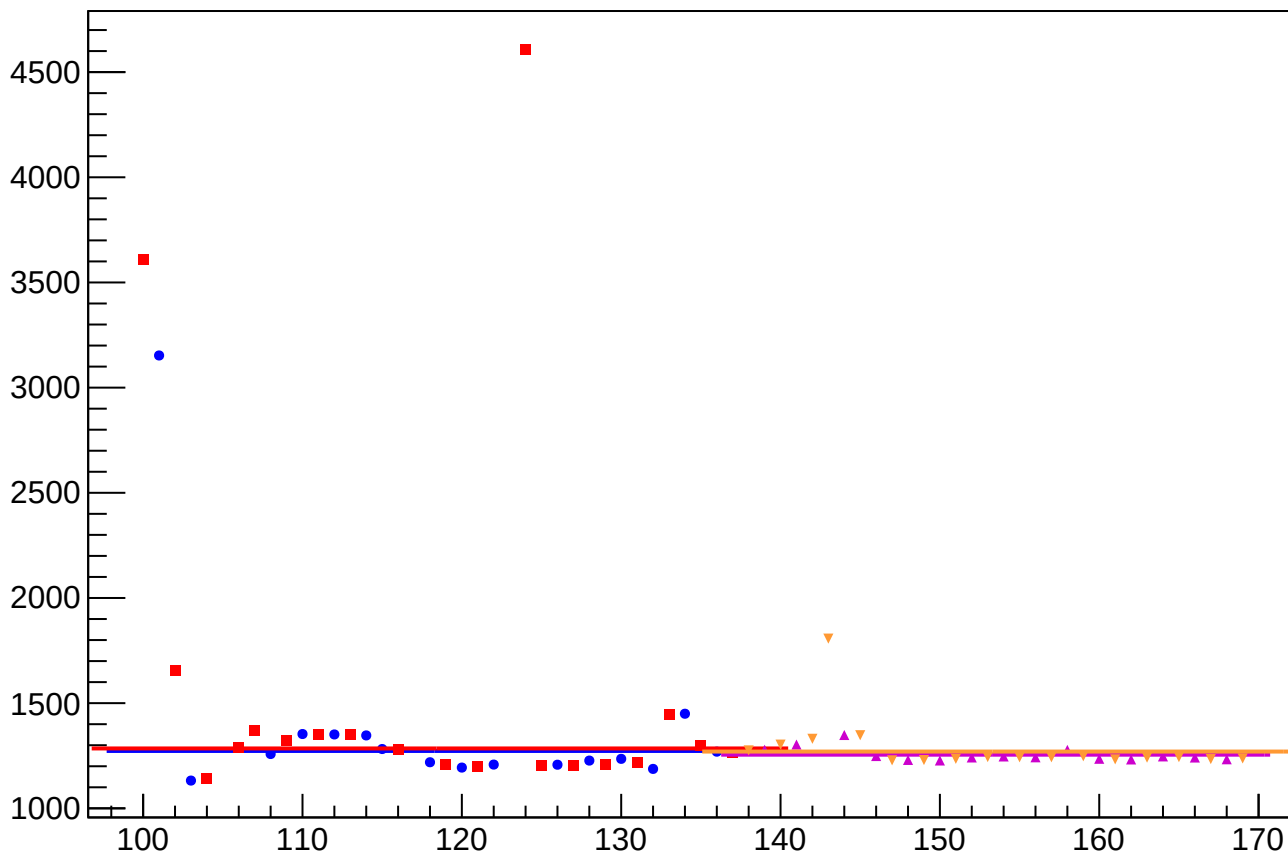
Right: 68.238 ± 340.742 χ^2/NDF : 36.2/34

In: 156.795 ± 286.632 χ^2/NDF : 29.3/30

Out: -307.547 ± 281.676 χ^2/NDF : 34.8/35

All: -79.425 ± 200.904 χ^2/NDF : 65.5/66

cor_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1272.804 $\pm$ 0.341 χ^2 /NDF: 519299.6/15

Left Out: 1269.880 $\pm$ 0.246 χ^2 /NDF: 165900.6/16

Right Out: 1284.654 $\pm$ 0.340 χ^2 /NDF: 328734.9/18

Left In: 1255.069 $\pm$ 0.252 χ^2 /NDF: 15976.9/14

Left: 1262.664 $\pm$ 0.176 χ^2 /NDF: 183648.9/31

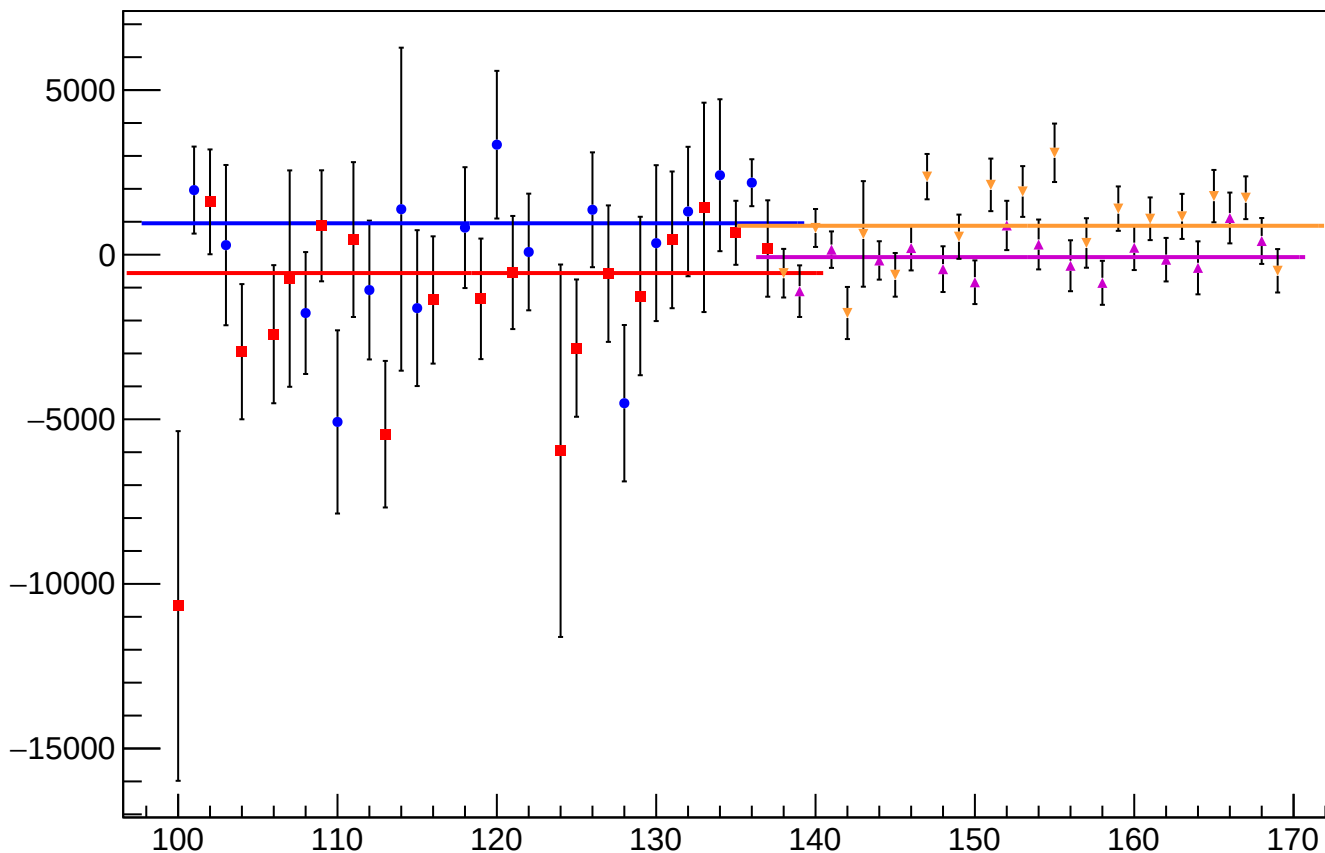
Right: 1278.743 $\pm$ 0.241 χ^2 /NDF: 848639.3/34

In: 1261.330 $\pm$ 0.203 χ^2 /NDF: 537025.1/30

Out: 1274.940 $\pm$ 0.199 χ^2 /NDF: 495874.5/35

All: 1268.253 $\pm$ 0.142 χ^2 /NDF: 1035193.5/60

asym_at1_dd_at2_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: 954.146 $\pm$ 425.660 χ^2 /NDF: 19.9/15

Left Out: 878.469 $\pm$ 174.943 χ^2 /NDF:44.2/16

Right Out: -557.935 $\pm$ 440.758 χ^2 /NDF: 18.4/18

Left In: -73.333 $\pm$ 178.151 χ^2 /NDF:10.3/14

Left: 411.216 $\pm$ 124.822 χ^2 /NDF: 69.0/31

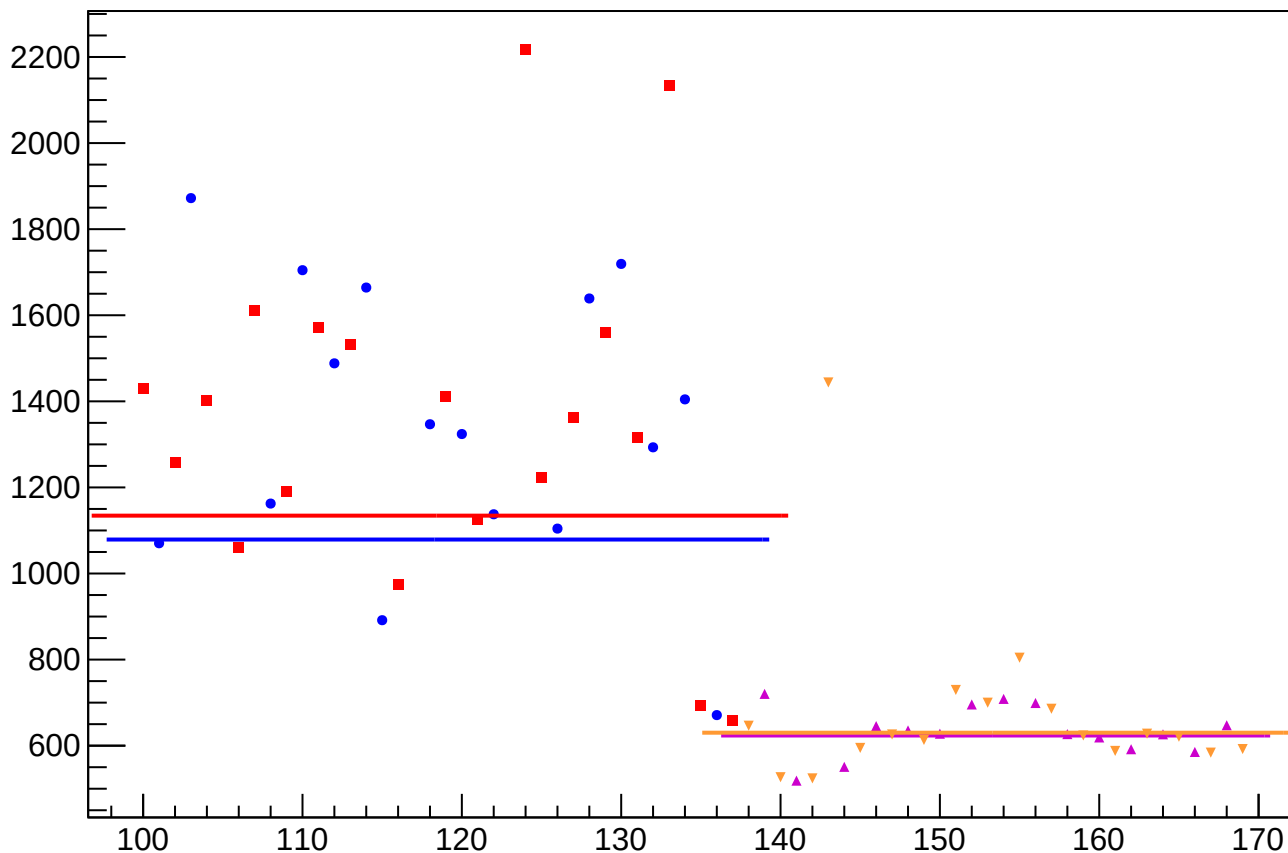
Right: 224.446 $\pm$ 306.186 χ^2 /NDF: 44.3/34

In: 79.819 $\pm$ 164.338 χ^2 /NDF:35.1/30

Out: 682.976 $\pm$ 162.603 χ^2 /NDF:71.7/35

All: 384.599 $\pm$ 115.586 χ^2 /NDF: 113.7/66

asym_at1_dd_at2_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1078.932+/-0.301 χ^2 /NDF: 1478719.9/15

Left Out: 630.165+/-0.124 χ^2 /NDF:784386.8/16

Right Out: 1134.428+/-0.312 χ^2 /NDF: 1288899.2/18

Left In: 623.645+/-0.126 χ^2 /NDF:210826.9/14

Left: 626.964+/-0.088 χ^2 /NDF: 996577.2/31

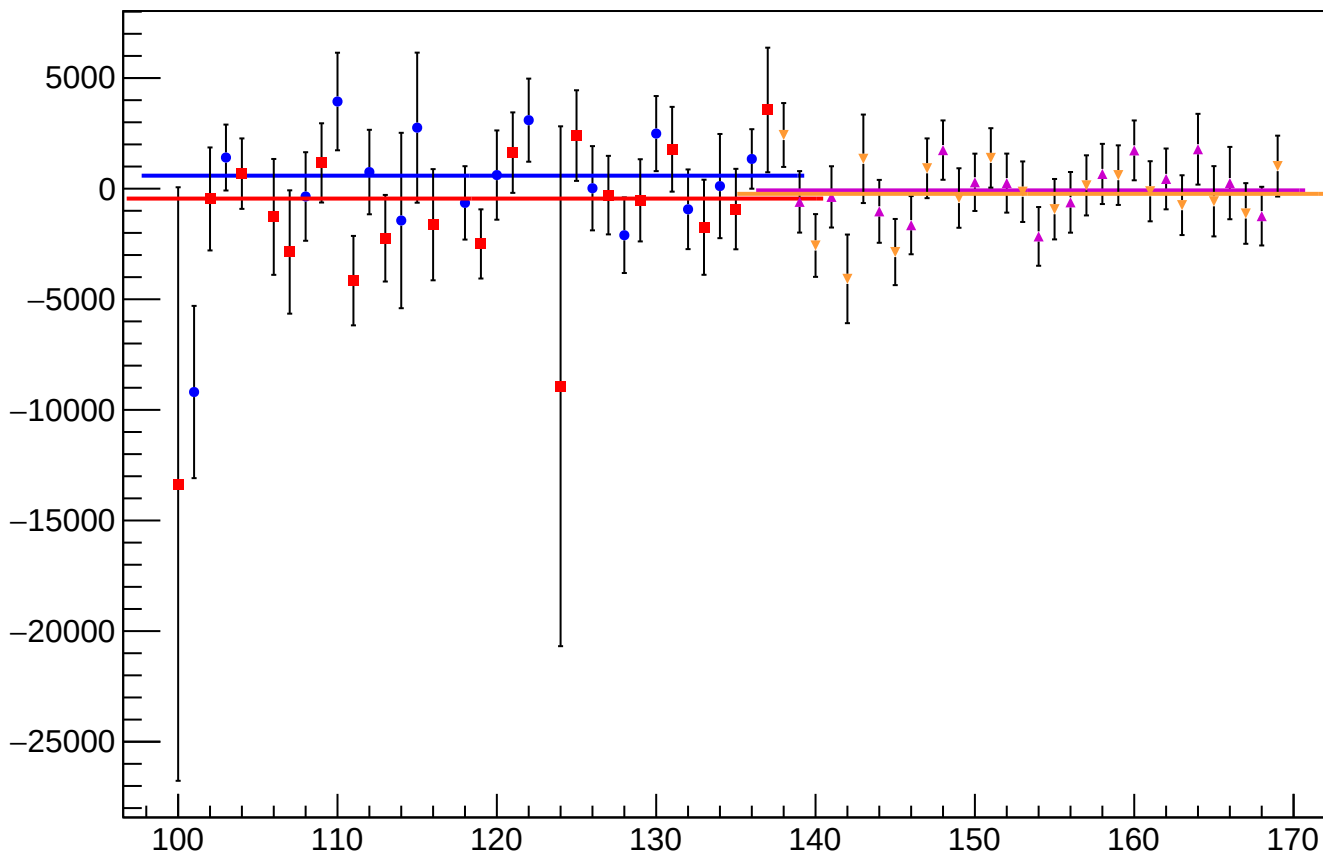
Right: 1105.713+/-0.217 χ^2 /NDF: 2784024.9/34

In: 691.509+/-0.116 χ^2 /NDF:3636581.2/30

Out: 698.795+/-0.115 χ^2 /NDF:4334844.8/35

All: 695.190+/-0.082 χ^2 /NDF: 7973412.4/66

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 587.254+/-482.434 χ^2/NDF : 17.1/15

Left Out: -234.182+/-347.367 χ^2/NDF :17.9/16

Right Out: -448.412+/-481.333 χ^2/NDF : 16.8/18

Left In: -78.060+/-356.346 χ^2/NDF :11.0/14

Left: -158.113+/-248.739 χ^2/NDF : 29.0/31

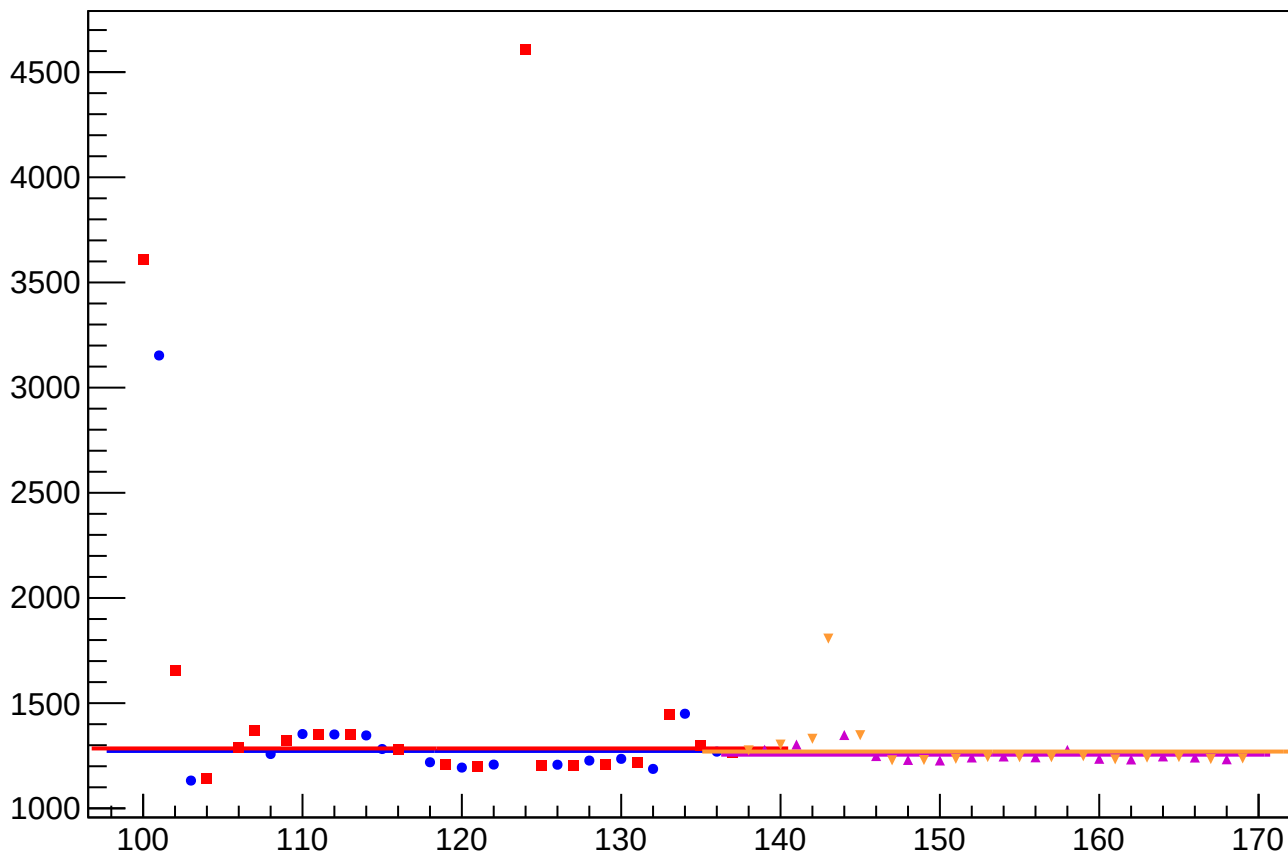
Right: 68.238+/-340.742 χ^2/NDF : 36.2/34

In: 156.795+/-286.632 χ^2/NDF :29.3/30

Out: -307.547+/-281.676 χ^2/NDF :34.8/35

All: -79.425+/-200.904 χ^2/NDF : 65.5/66

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1272.804+/-0.341 χ^2/NDF : 519299.6/15

Left Out: 1269.880+/-0.246 χ^2/NDF : 165900.6/16

Right Out: 1284.654+/-0.340 χ^2/NDF : 328734.9/18

Left In: 1255.069+/-0.252 χ^2/NDF : 15976.9/14

Left: 1262.664+/-0.176 χ^2/NDF : 183648.9/31

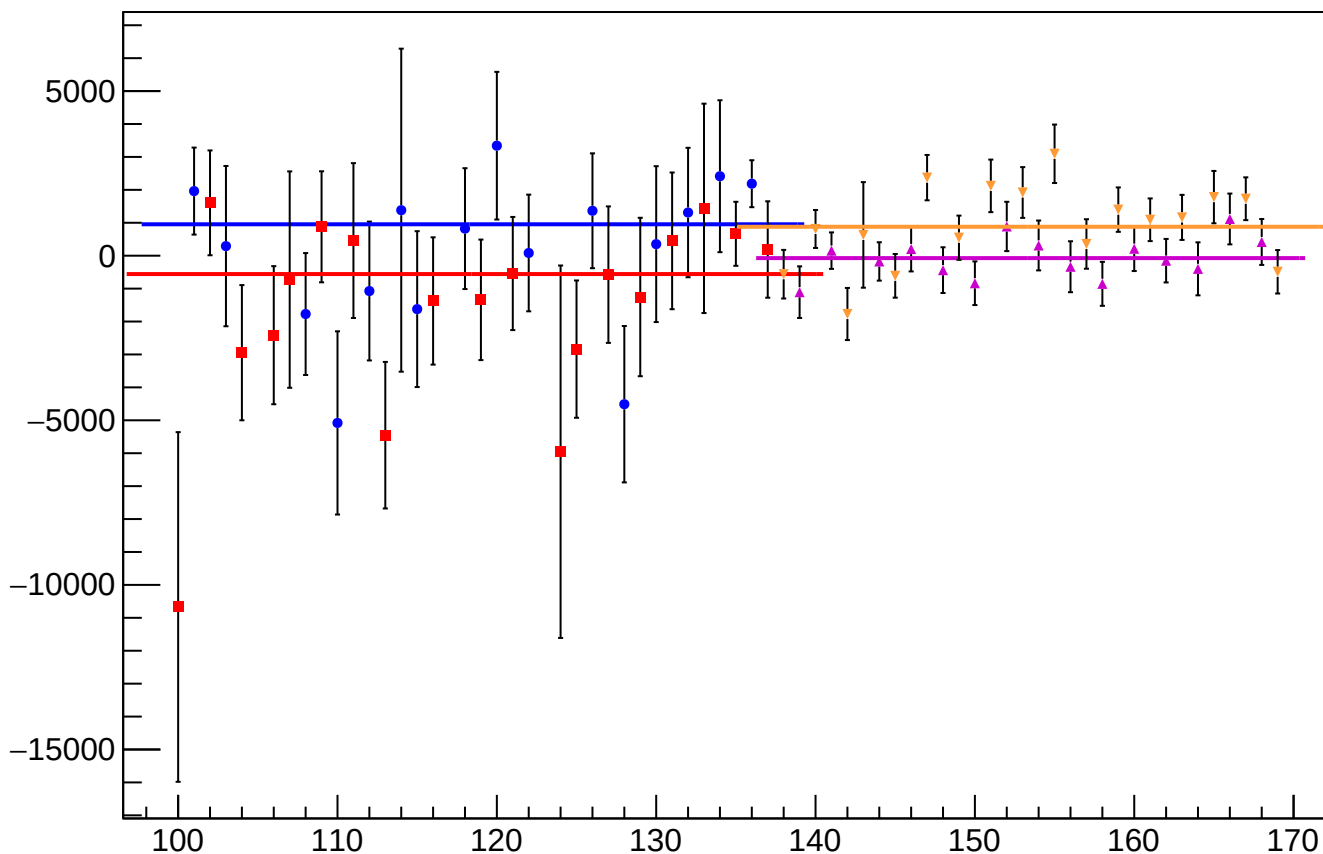
Right: 1278.743+/-0.241 χ^2/NDF : 848639.3/34

In: 1261.330+/-0.203 χ^2/NDF : 537025.1/30

Out: 1274.940+/-0.199 χ^2/NDF : 495874.5/35

All: 1268.253+/-0.142 χ^2/NDF : 1035193.5/66

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 954.146 $\pm$ 425.660 χ^2 /NDF: 19.9/15

Left Out: 878.469 $\pm$ 174.943 χ^2 /NDF:44.2/16

Right Out: -557.935 $\pm$ 440.758 χ^2 /NDF: 18.4/18

Left In: -73.333 $\pm$ 178.151 χ^2 /NDF:10.3/14

Left: 411.216 $\pm$ 124.822 χ^2 /NDF: 69.0/31

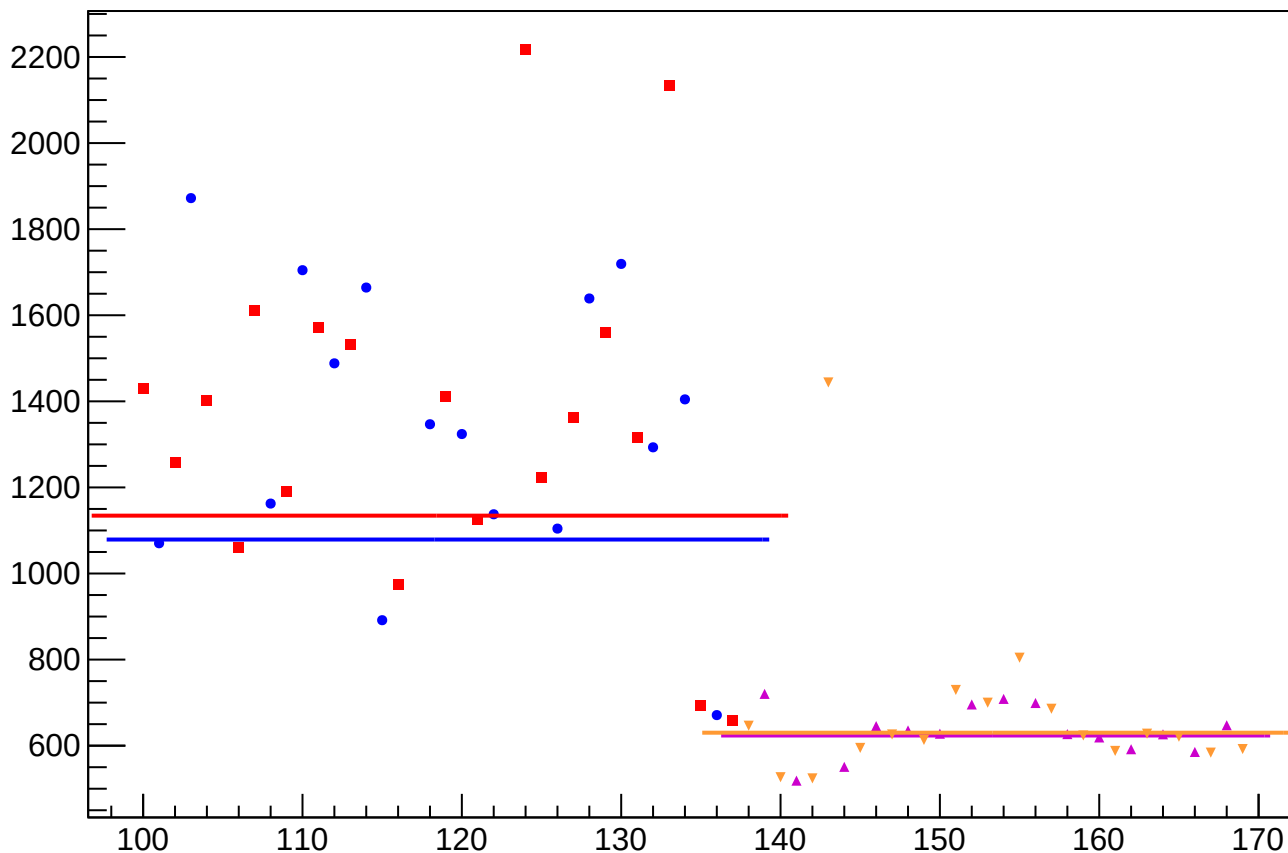
Right: 224.446 $\pm$ 306.186 χ^2 /NDF: 44.3/34

In: 79.819 $\pm$ 164.338 χ^2 /NDF:35.1/30

Out: 682.976 $\pm$ 162.603 χ^2 /NDF:71.7/35

All: 384.599 $\pm$ 115.586 χ^2 /NDF: 113.7/66

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1078.932+/-0.301 χ^2/NDF : 1478719.9/15

Left Out: 630.165+/-0.124 χ^2/NDF : 784386.8/16

Right Out: 1134.428+/-0.312 χ^2/NDF : 1288899.2/18

Left In: 623.645+/-0.126 χ^2/NDF : 210826.9/14

Left: 626.964+/-0.088 χ^2/NDF : 996577.2/31

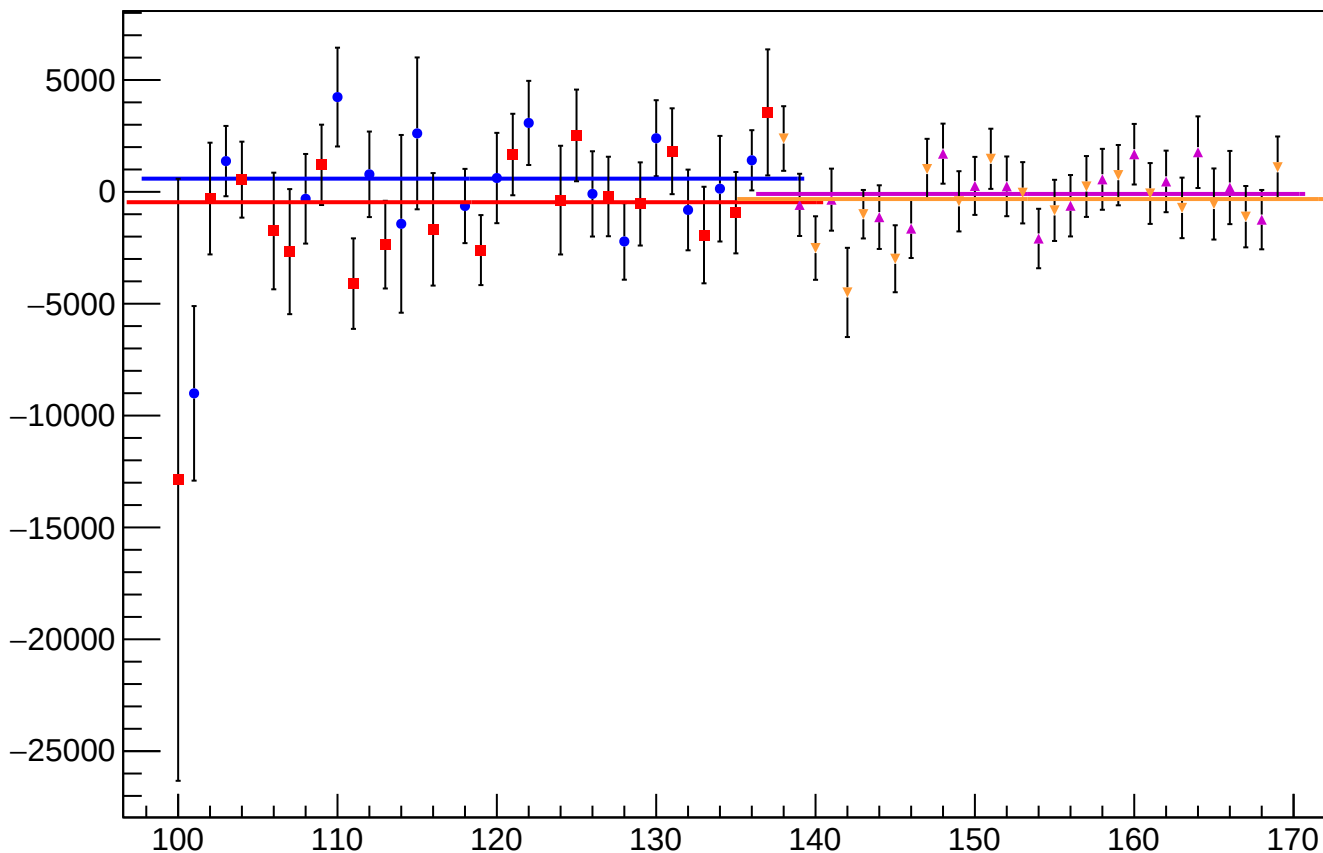
Right: 1105.713+/-0.217 χ^2/NDF : 2784024.9/34

In: 691.509+/-0.116 χ^2/NDF : 3636581.2/30

Out: 698.795+/-0.115 χ^2/NDF : 4334844.8/35

All: 695.190+/-0.082 χ^2/NDF : 7973412.4/66

dit_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 590.322 $\pm$ 485.483 χ^2 /NDF: 17.1/15

Left Out: -321.749 $\pm$ 335.608 χ^2 /NDF:19.1/16

Right Out: -462.606 $\pm$ 476.795 χ^2 /NDF: 16.7/18

Left In: -92.917 $\pm$ 356.647 χ^2 /NDF:10.7/14

Left: -214.281 $\pm$ 244.410 χ^2 /NDF: 30.0/31

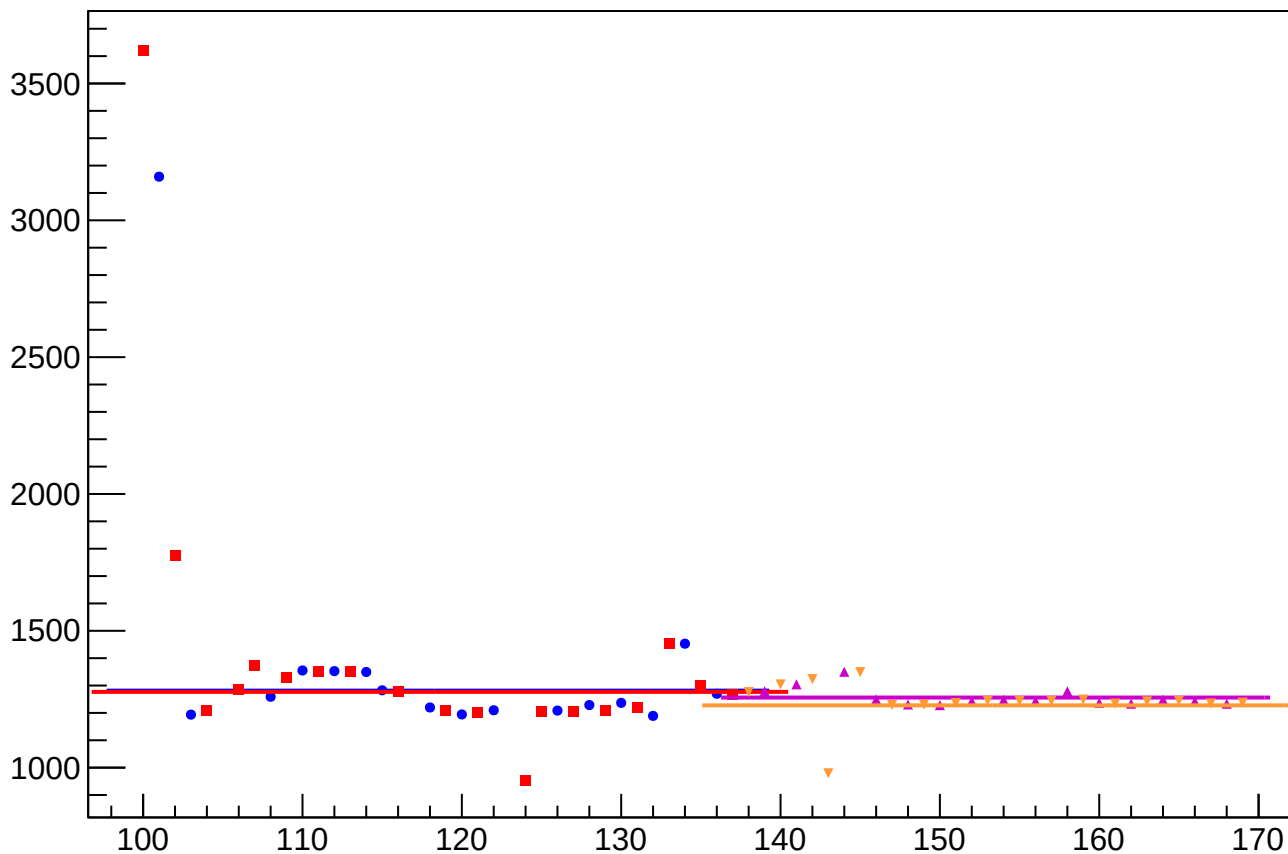
Right: 54.353 $\pm$ 340.175 χ^2 /NDF: 36.2/34

In: 146.565 $\pm$ 287.425 χ^2 /NDF:29.1/30

Out: -368.416 $\pm$ 274.439 χ^2 /NDF:35.9/35

All: -122.821 $\pm$ 198.490 χ^2 /NDF: 66.6/66

dit_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1281.369+/-0.343 χ^2/NDF : 507078.4/15

Left Out: 1227.608+/-0.237 χ^2/NDF :132896.8/16

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.6/18

Left In: 1256.125+/-0.252 χ^2/NDF :16096.9/14

Left: 1241.001+/-0.173 χ^2/NDF : 155775.1/31

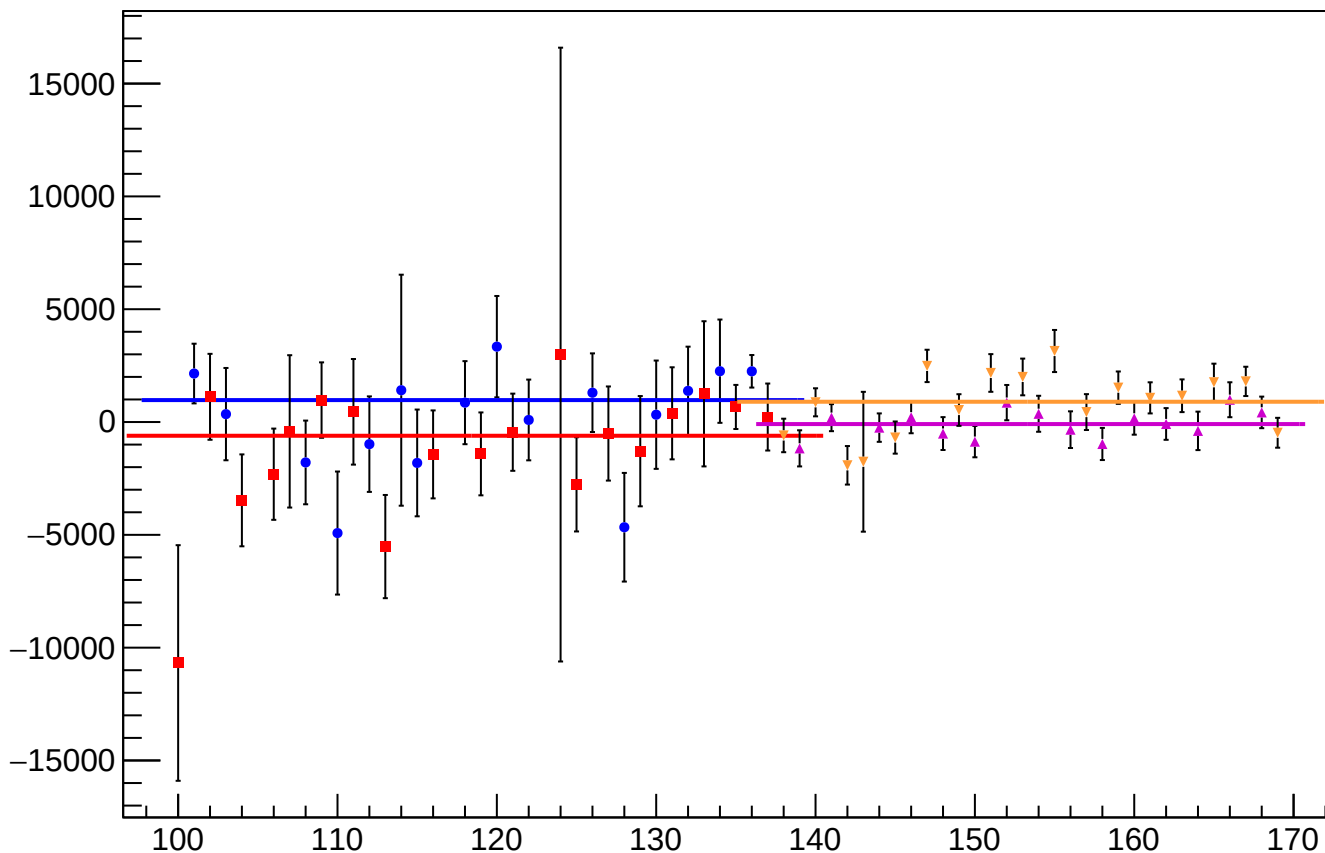
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1264.973+/-0.203 χ^2/NDF :526687.5/30

Out: 1243.926+/-0.194 χ^2/NDF :367681.1/35

All: 1253.963+/-0.140 χ^2/NDF : 899978.6/66

asym_at1_dd_at2_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.287 $\pm$ 425.219 χ^2 /NDF: 20.4/15

Left Out: 899.021 $\pm$ 183.884 χ^2 /NDF:44.4/16

Right Out: -608.431 $\pm$ 447.734 χ^2 /NDF: 17.1/18

Left In: -90.325 $\pm$ 187.197 χ^2 /NDF:10.0/14

Left: 413.180 $\pm$ 131.181 χ^2 /NDF: 68.6/31

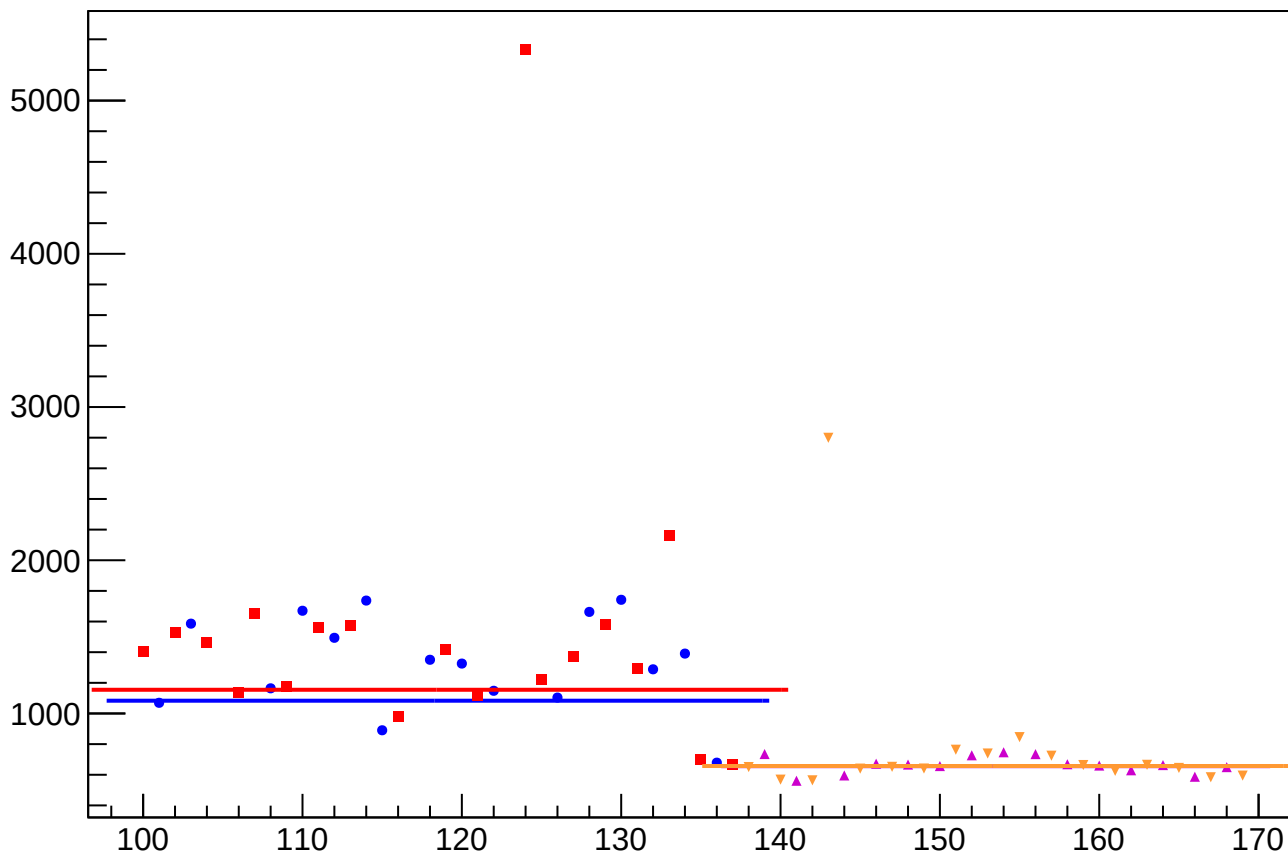
Right: 222.671 $\pm$ 308.328 χ^2 /NDF: 44.1/34

In: 82.184 $\pm$ 171.329 χ^2 /NDF:35.7/30

Out: 681.452 $\pm$ 170.097 χ^2 /NDF:71.2/35

All: 383.980 $\pm$ 120.710 χ^2 /NDF: 113.1/66

asym_at1_dd_at2_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1083.335+/-0.301 χ^2/NDF : 1360153.3/15

Left Out: 657.104+/-0.130 χ^2/NDF : 1220119.3/16

Right Out: 1154.724+/-0.317 χ^2/NDF : 1488304.5/18

Left In: 656.018+/-0.132 χ^2/NDF : 170758.2/14

Left: 656.570+/-0.093 χ^2/NDF : 1390911.9/31

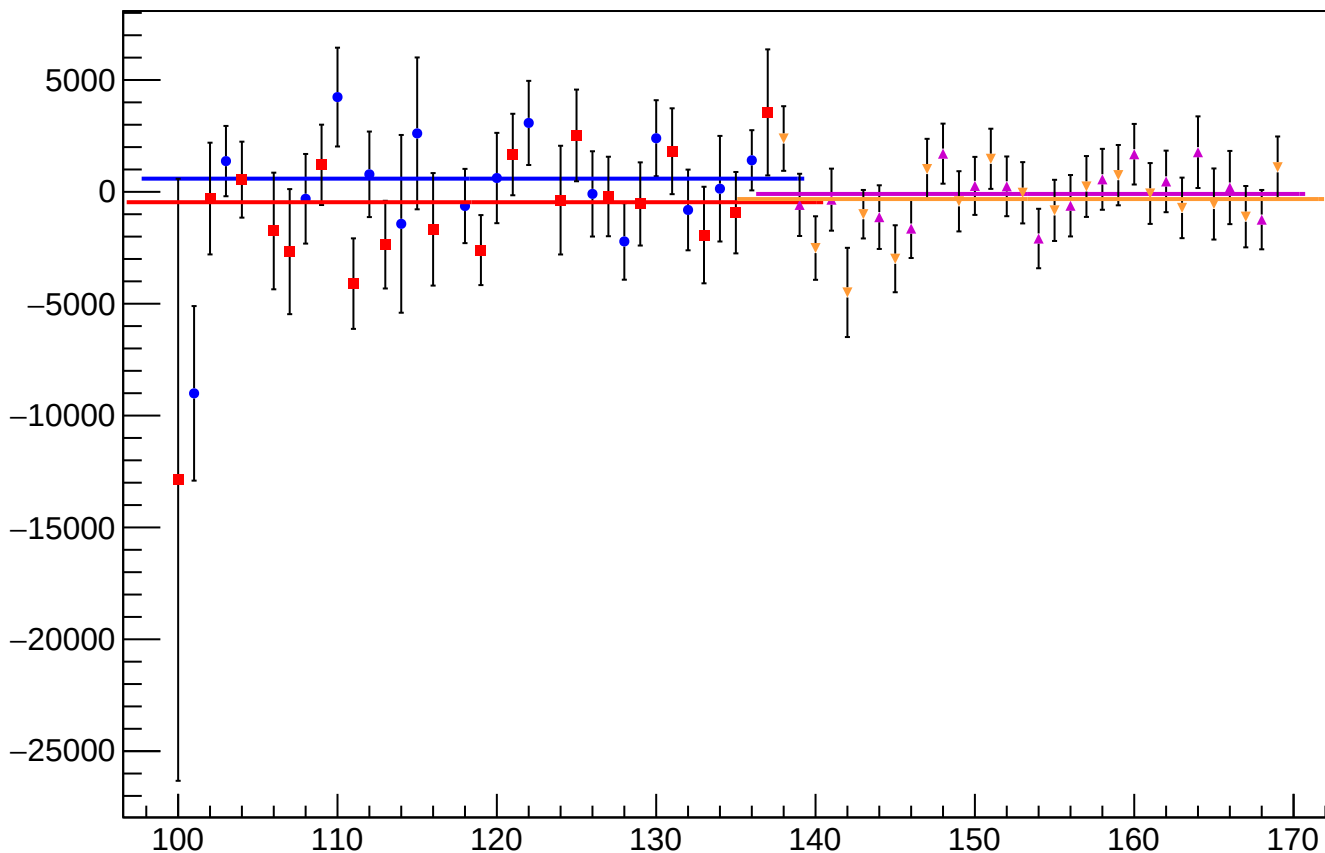
Right: 1117.189+/-0.218 χ^2/NDF : 2875191.7/34

In: 725.390+/-0.121 χ^2/NDF : 3222797.7/30

Out: 728.925+/-0.120 χ^2/NDF : 4822365.0/35

All: 727.170+/-0.085 χ^2/NDF : 8045591.4/66

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 590.323+/-485.483 χ^2/NDF : 17.1/15

Left Out: -321.751+/-335.608 χ^2/NDF :19.1/16

Right Out: -462.605+/-476.795 χ^2/NDF : 16.7/18

Left In: -92.916+/-356.647 χ^2/NDF :10.7/14

Left: -214.282+/-244.410 χ^2/NDF : 30.0/31

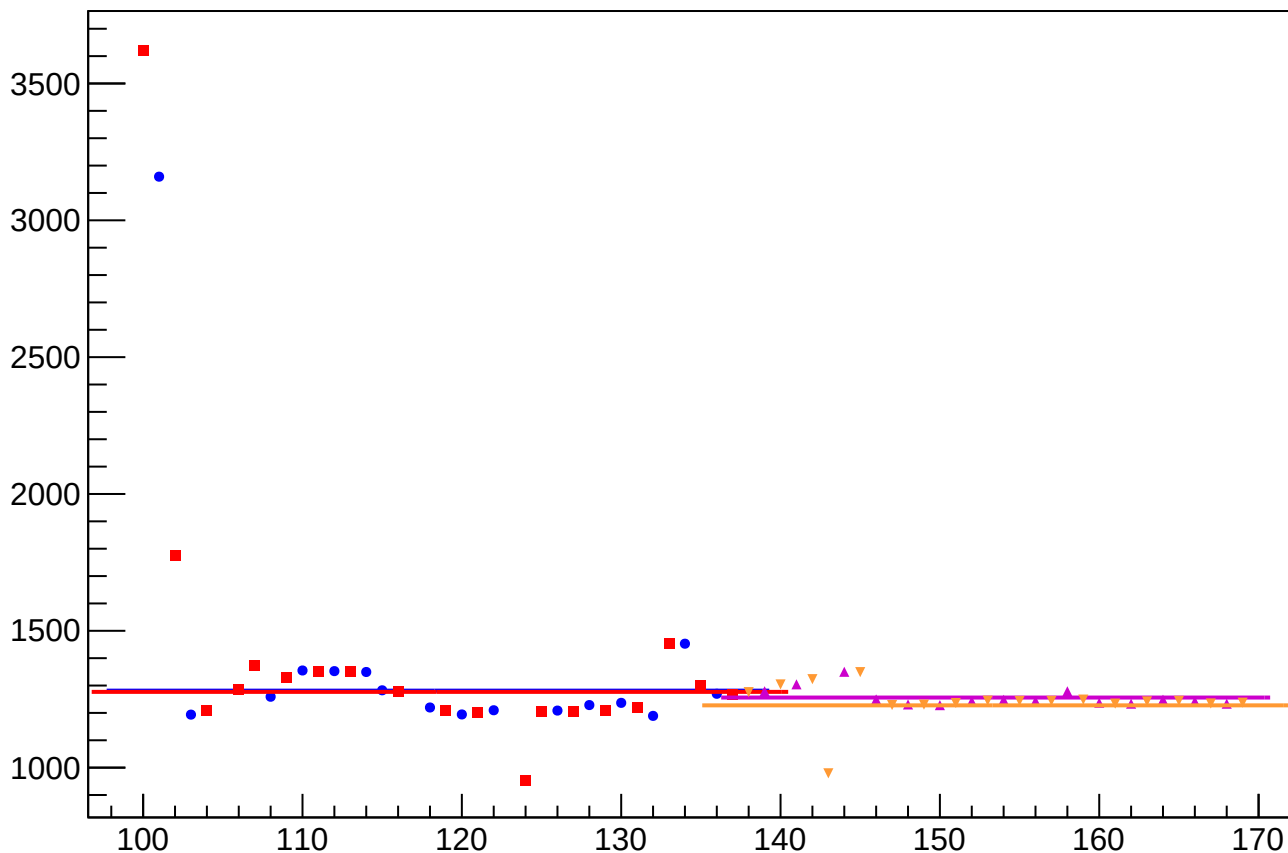
Right: 54.354+/-340.175 χ^2/NDF : 36.2/34

In: 146.567+/-287.425 χ^2/NDF :29.1/30

Out: -368.417+/-274.439 χ^2/NDF :35.9/35

All: -122.821+/-198.490 χ^2/NDF : 66.6/66

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1281.369+/-0.343 χ^2/NDF : 507078.6/15

Left Out: 1227.608+/-0.237 χ^2/NDF :132896.0/16

Right Out: 1276.860+/-0.337 χ^2/NDF : 220513.5/18

Left In: 1256.125+/-0.252 χ^2/NDF :16096.9/14

Left: 1241.001+/-0.173 χ^2/NDF : 155774.3/31

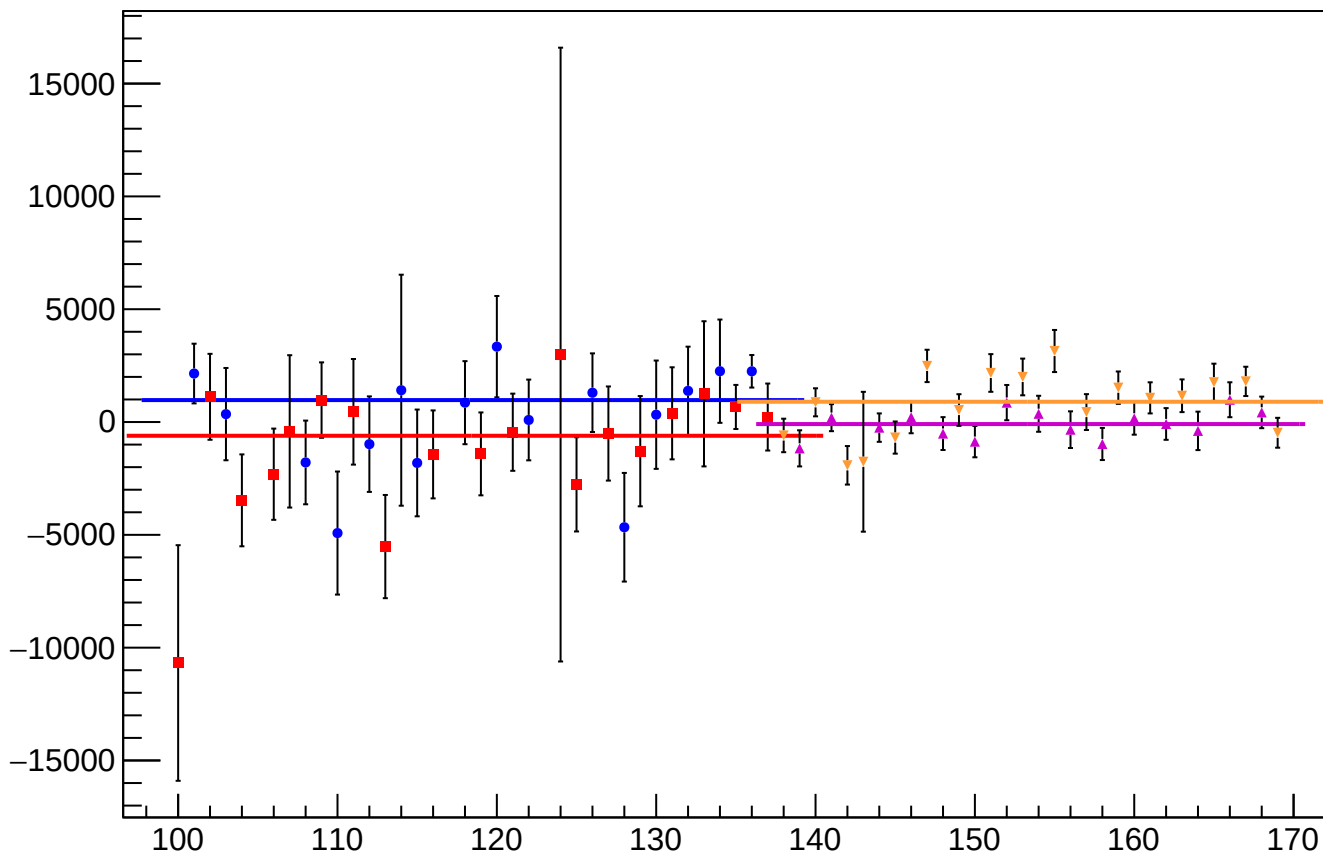
Right: 1279.074+/-0.241 χ^2/NDF : 727679.9/34

In: 1264.973+/-0.203 χ^2/NDF :526687.6/30

Out: 1243.926+/-0.194 χ^2/NDF :367680.1/35

All: 1253.963+/-0.140 χ^2/NDF : 899977.7/66

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 972.281+/-425.220 χ^2/NDF : 20.4/15

Left Out: 899.023+/-183.884 χ^2/NDF :44.4/16

Right Out: -608.441+/-447.736 χ^2/NDF : 17.1/18

Left In: -90.323+/-187.197 χ^2/NDF :10.0/14

Left: 413.181+/-131.181 χ^2/NDF : 68.6/31

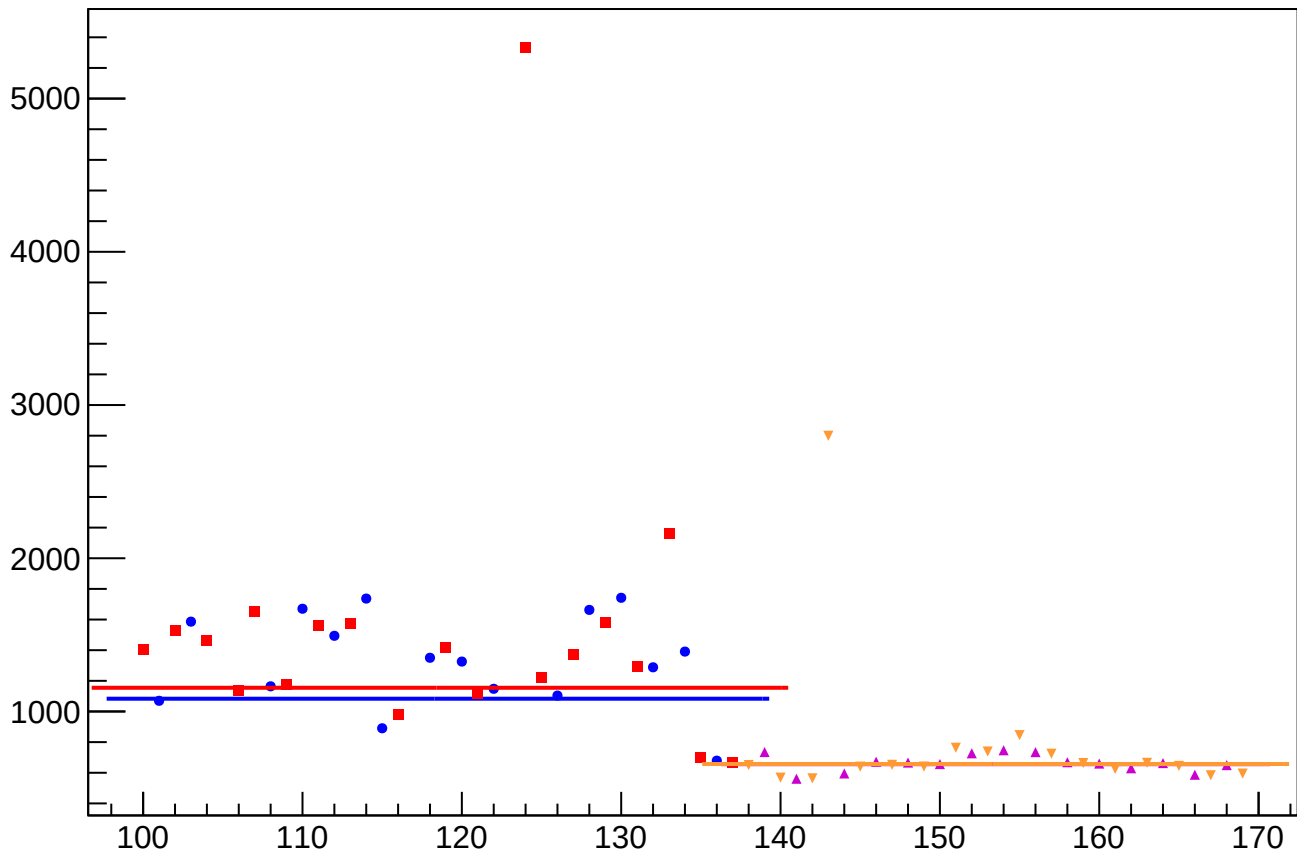
Right: 222.664+/-308.329 χ^2/NDF : 44.1/34

In: 82.183+/-171.329 χ^2/NDF :35.7/30

Out: 681.454+/-170.097 χ^2/NDF :71.2/35

All: 383.981+/-120.710 χ^2/NDF : 113.1/66

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1083.341+/-0.301 χ^2/NDF : 1360095.7/15

Left Out: 657.104+/-0.130 χ^2/NDF : 1220114.8/16

Right Out: 1154.732+/-0.317 χ^2/NDF : 1488251.4/18

Left In: 656.017+/-0.132 χ^2/NDF : 170761.7/14

Left: 656.570+/-0.093 χ^2/NDF : 1390910.8/31

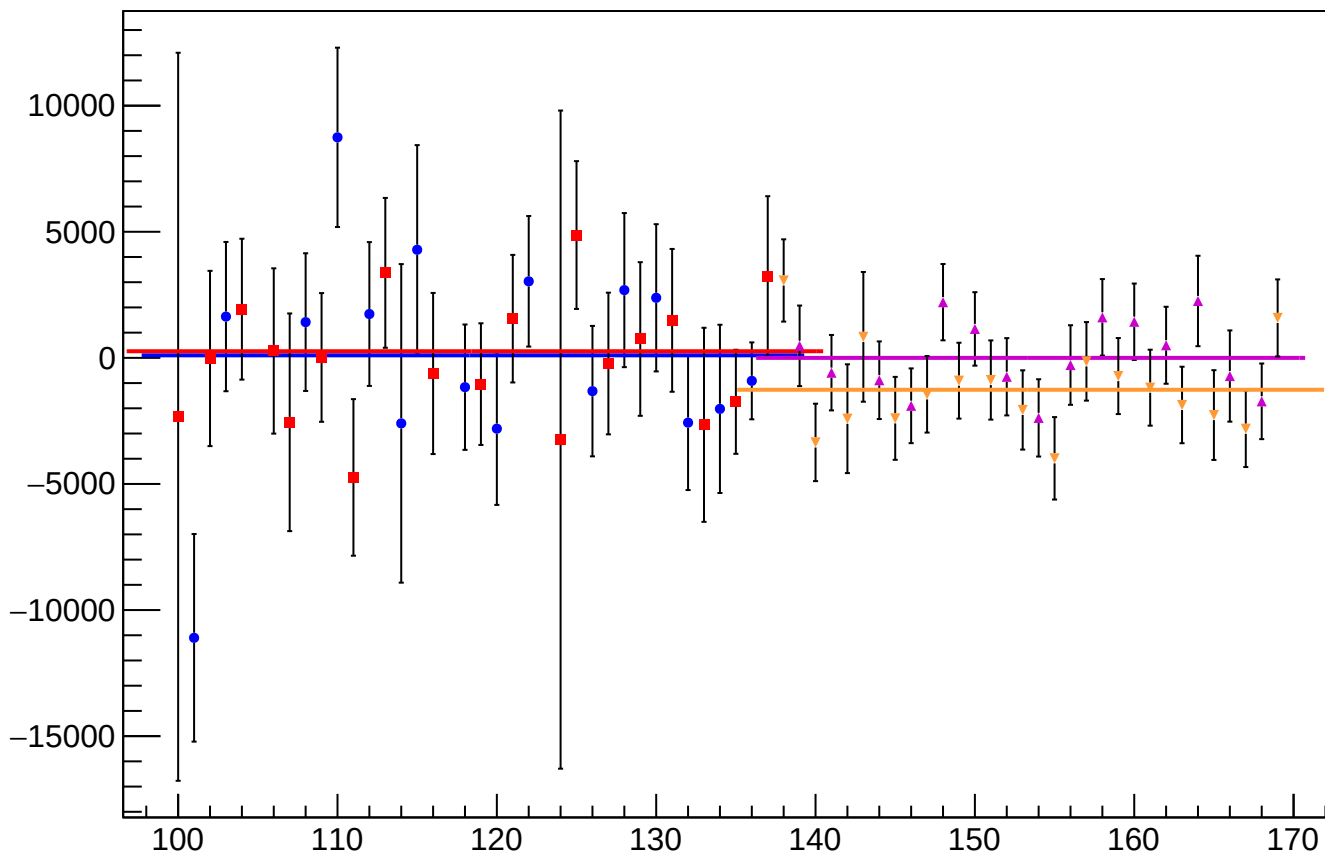
Right: 1117.196+/-0.218 χ^2/NDF : 2875081.4/34

In: 725.390+/-0.121 χ^2/NDF : 3222788.4/30

Out: 728.926+/-0.120 χ^2/NDF : 4822350.9/35

All: 727.171+/-0.085 χ^2/NDF : 8045568.3/66

asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected



Right In: 100.451 $\pm$ 698.983 χ^2 /NDF: 21.3/15

Left Out: -1264.590 $\pm$ 392.127 χ^2 /NDF:19.1/16

Right Out: 262.731 $\pm$ 699.724 χ^2 /NDF: 10.3/18

Left In: -0.519 $\pm$ 400.350 χ^2 /NDF:12.8/14

Left: -645.671 $\pm$ 280.138 χ^2 /NDF: 37.1/31

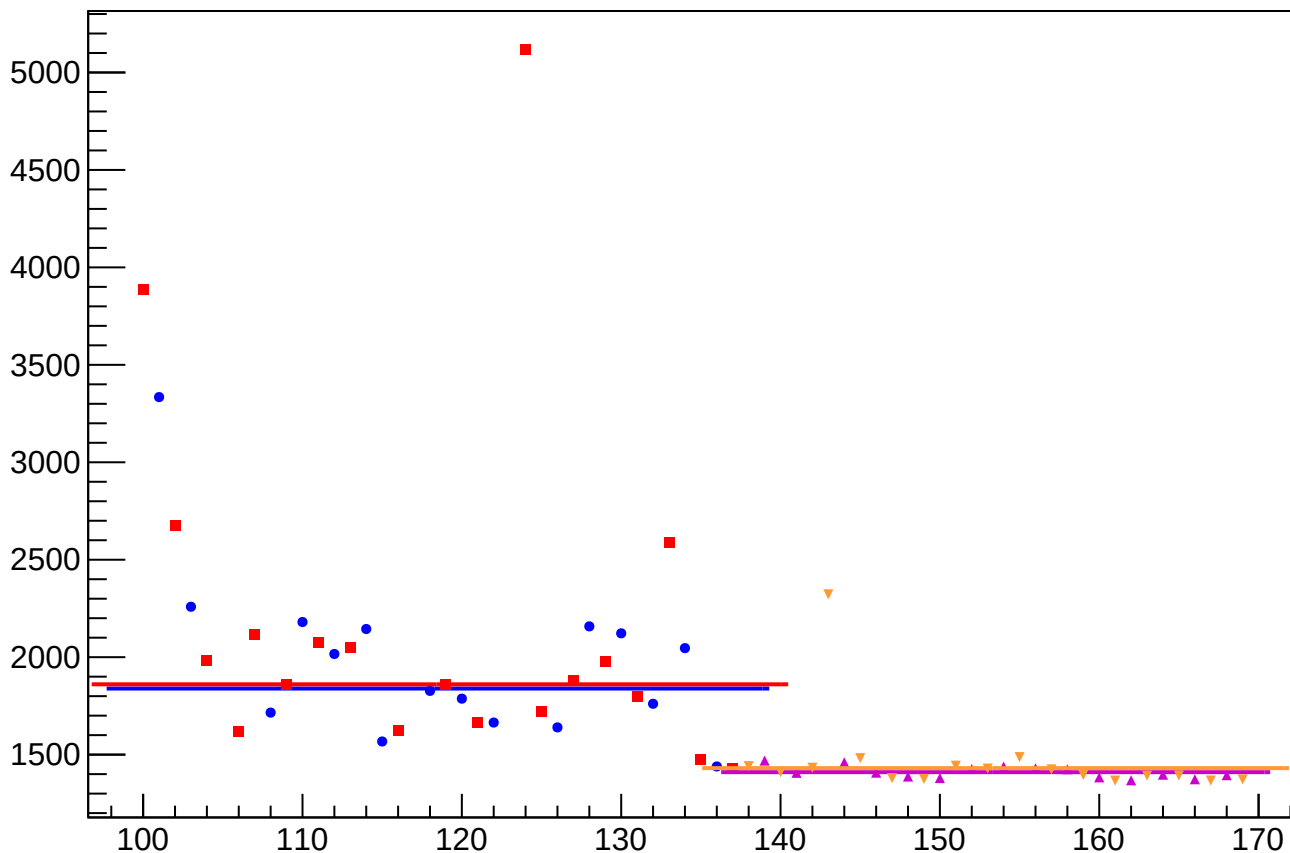
Right: 181.505 $\pm$ 494.518 χ^2 /NDF: 31.6/34

In: 24.422 $\pm$ 347.402 χ^2 /NDF:34.1/30

Out: -899.570 $\pm$ 342.074 χ^2 /NDF:33.1/35

All: -444.713 $\pm$ 243.745 χ^2 /NDF: 70.8/66

asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected



Right In: 1839.113+/-0.494 χ^2/NDF : 556725.4/15

Left Out: 1430.716+/-0.277 χ^2/NDF : 263571.5/16

Right Out: 1860.754+/-0.495 χ^2/NDF : 522114.2/18

Left In: 1410.081+/-0.283 χ^2/NDF : 10863.4/14

Left: 1420.612+/-0.198 χ^2/NDF : 277146.7/31

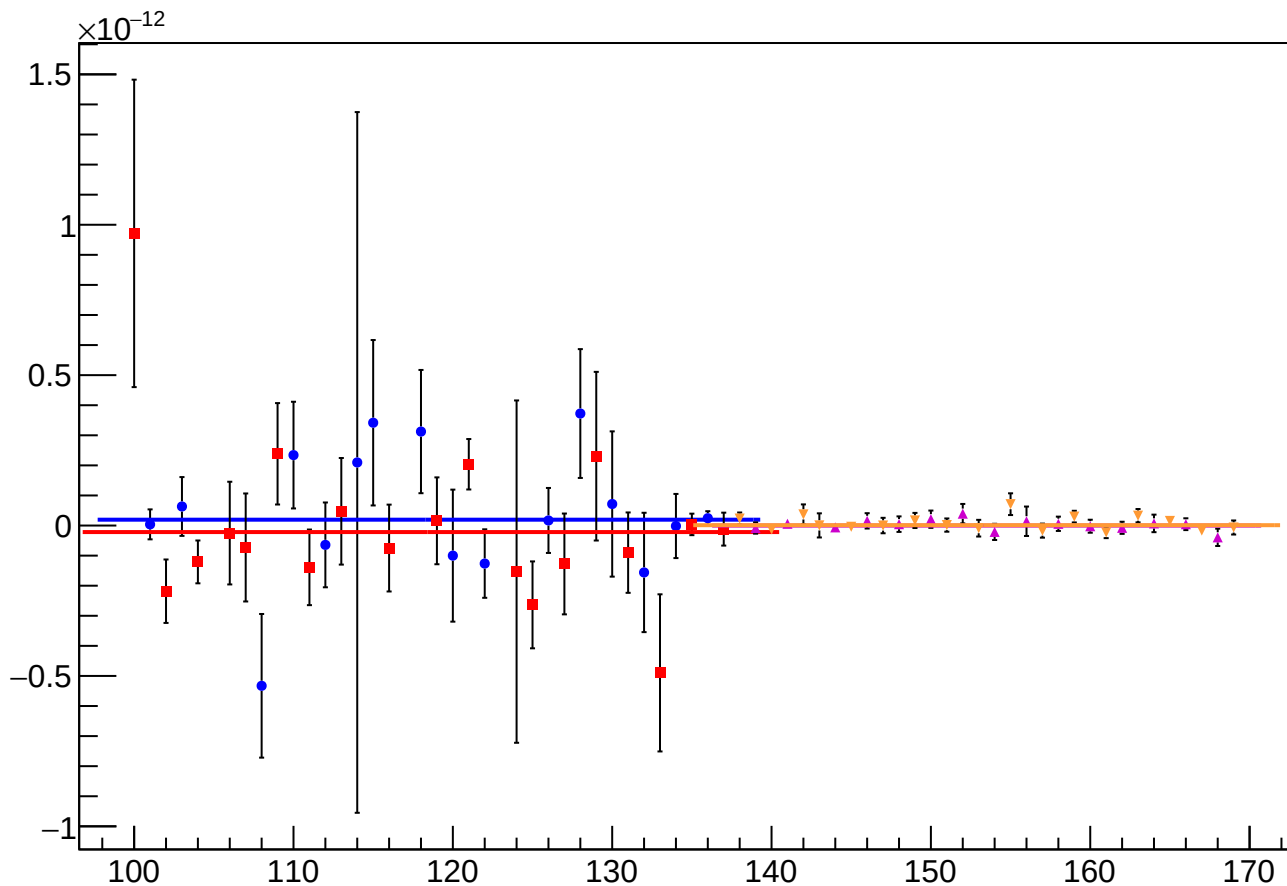
Right: 1849.922+/-0.350 χ^2/NDF : 1079797.1/34

In: 1516.060+/-0.246 χ^2/NDF : 1134953.3/30

Out: 1533.494+/-0.242 χ^2/NDF : 1360576.8/35

All: 1524.912+/-0.172 χ^2/NDF : 2498087.3/66

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 17.2/16

Right Out: -0.000+/-0.000 χ^2/NDF : 28.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 5.8/14

Left: 0.000+/-0.000 χ^2/NDF : 23.0/31

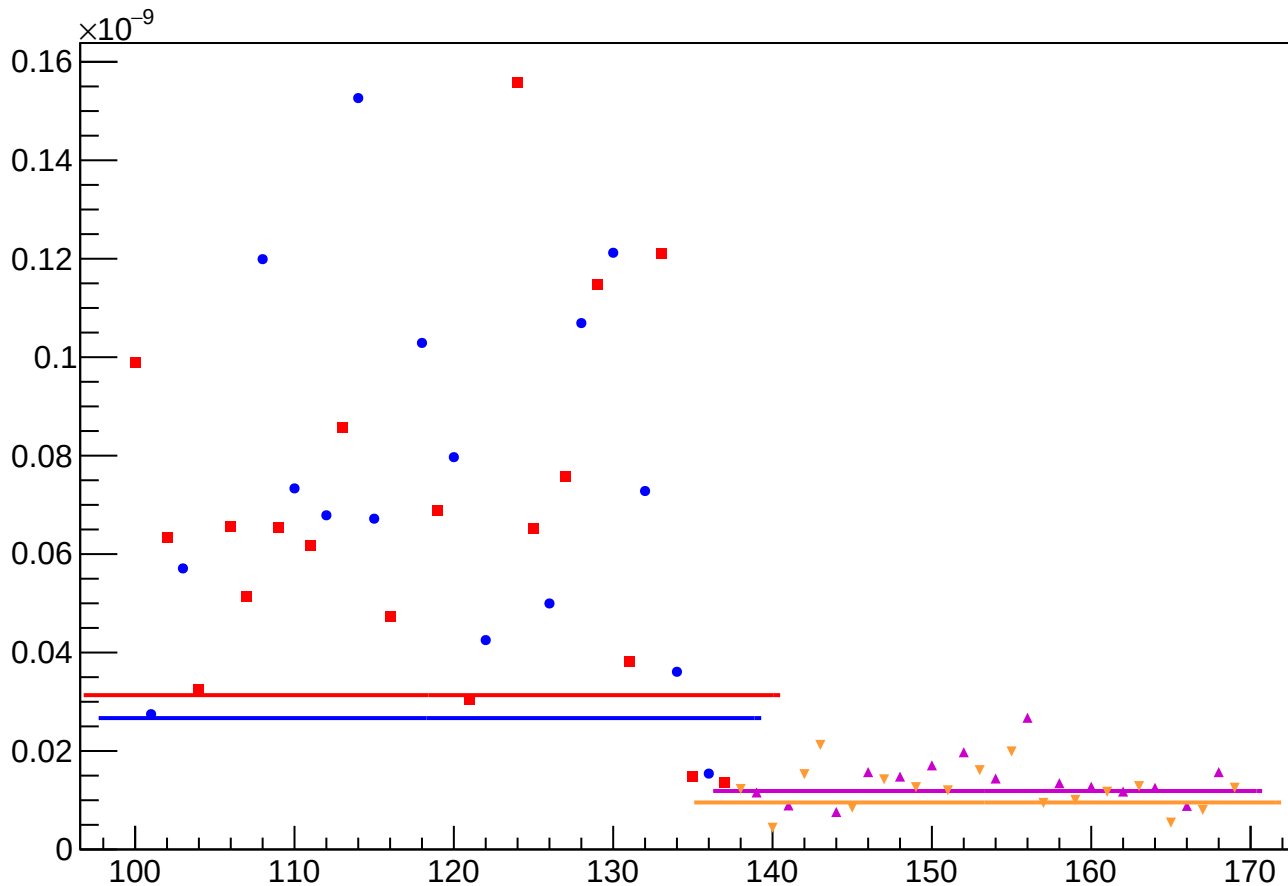
Right: 0.000+/-0.000 χ^2/NDF : 46.7/34

In: 0.000+/-0.000 χ^2/NDF : 23.3/30

Out: 0.000+/-0.000 χ^2/NDF : 46.4/35

All: 0.000+/-0.000 χ^2/NDF : 69.7/66

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2580672.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1390760.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2275167.3/18

Left In: 0.000+/-0.000 χ^2/NDF :824887.8/14

Left: 0.000+/-0.000 χ^2/NDF : 2411705.6/31

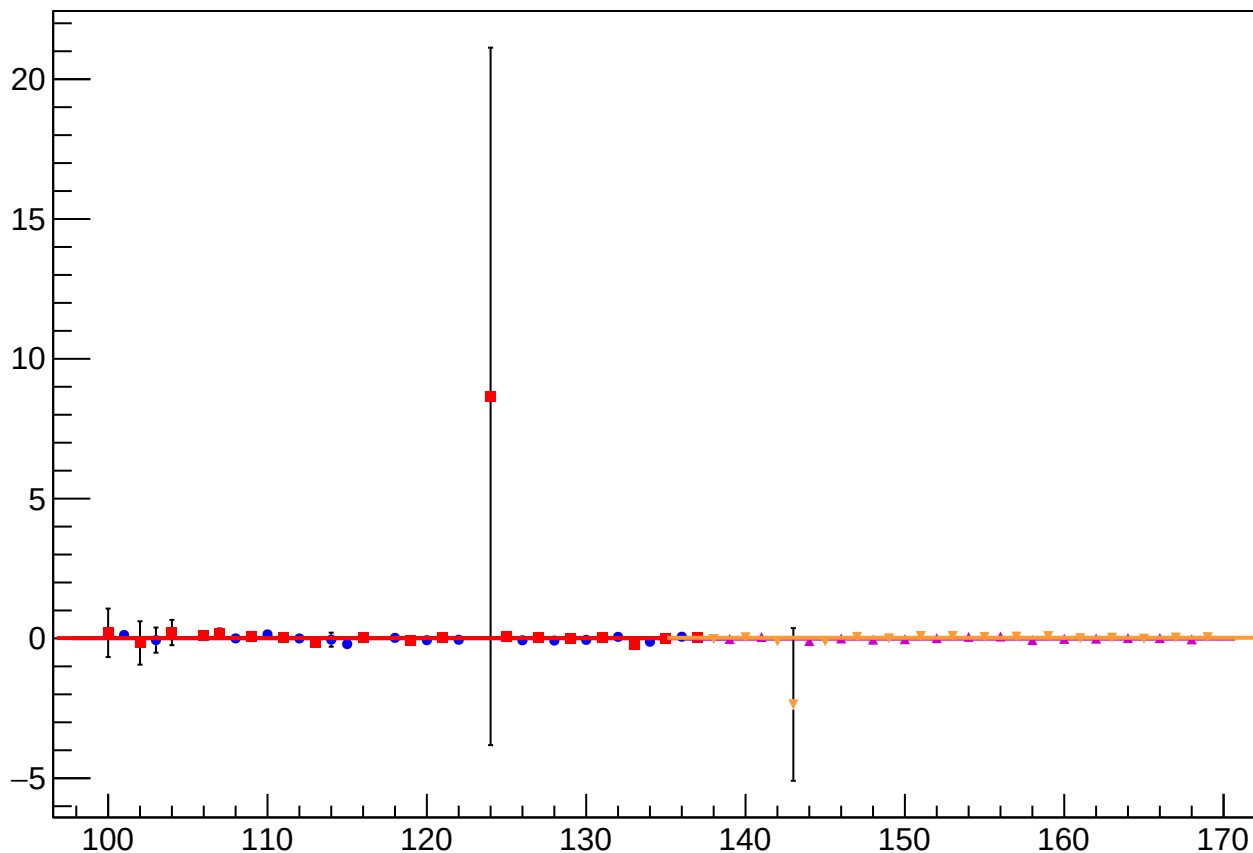
Right: 0.000+/-0.000 χ^2/NDF : 4906978.5/34

In: 0.000+/-0.000 χ^2/NDF :4540742.8/30

Out: 0.000+/-0.000 χ^2/NDF :5494755.7/35

All: 0.000+/-0.000 χ^2/NDF : 10303168.6/66

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.024 $\pm$ 0.010 χ^2 /NDF:17.7/16

Right Out: 0.012 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.008 $\pm$ 0.011 χ^2 /NDF:10.7/14

Left: 0.009 $\pm$ 0.008 χ^2 /NDF: 32.9/31

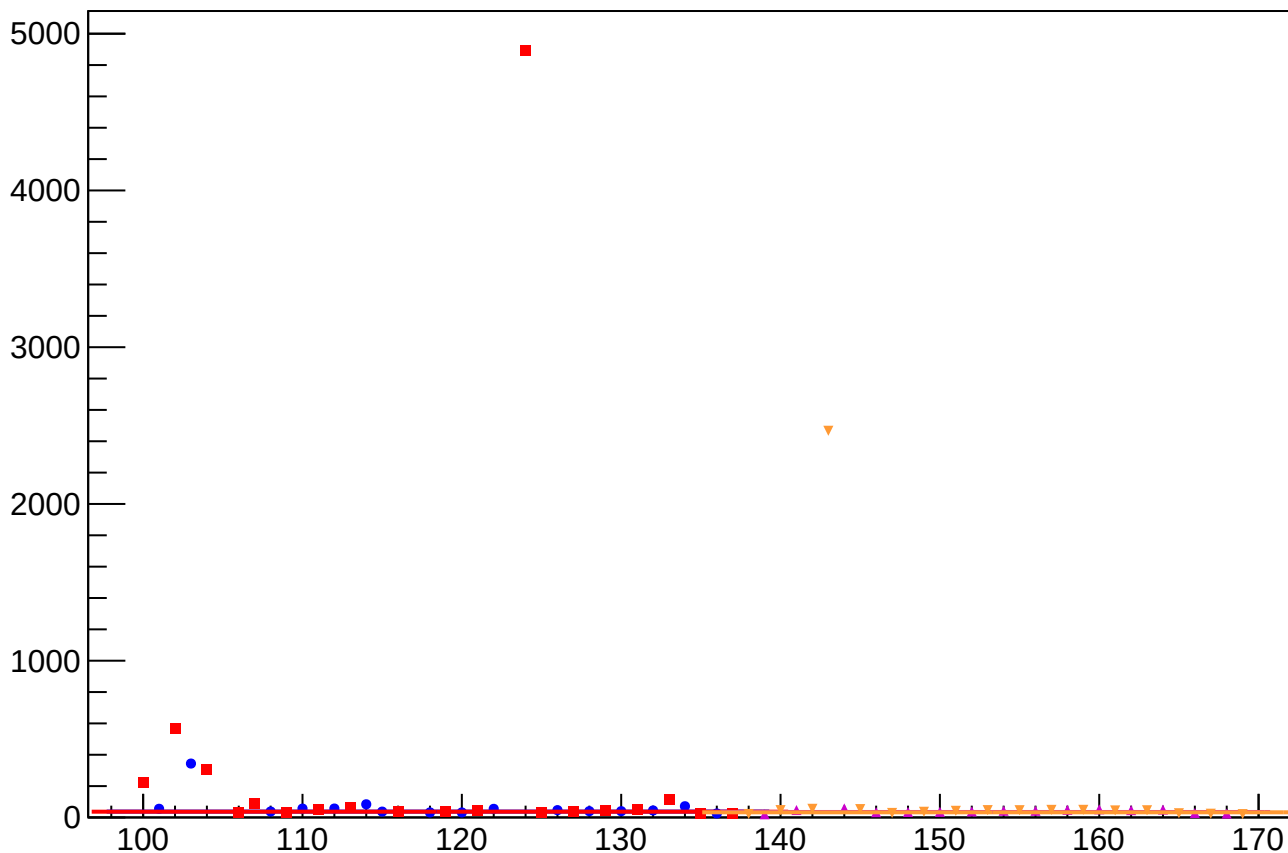
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: -0.003 $\pm$ 0.009 χ^2 /NDF:30.7/30

Out: 0.021 $\pm$ 0.009 χ^2 /NDF:30.6/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 64.8/66

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.494 $\pm$ 0.011 χ^2 /NDF: 1983275.6/15

Left Out: 32.846 $\pm$ 0.007 χ^2 /NDF: 3960562.7/16

Right Out: 36.767 $\pm$ 0.012 χ^2 /NDF: 3190700.2/18

Left In: 34.882 $\pm$ 0.008 χ^2 /NDF: 1867153.7/14

Left: 33.803 $\pm$ 0.005 χ^2 /NDF: 5864031.0/31

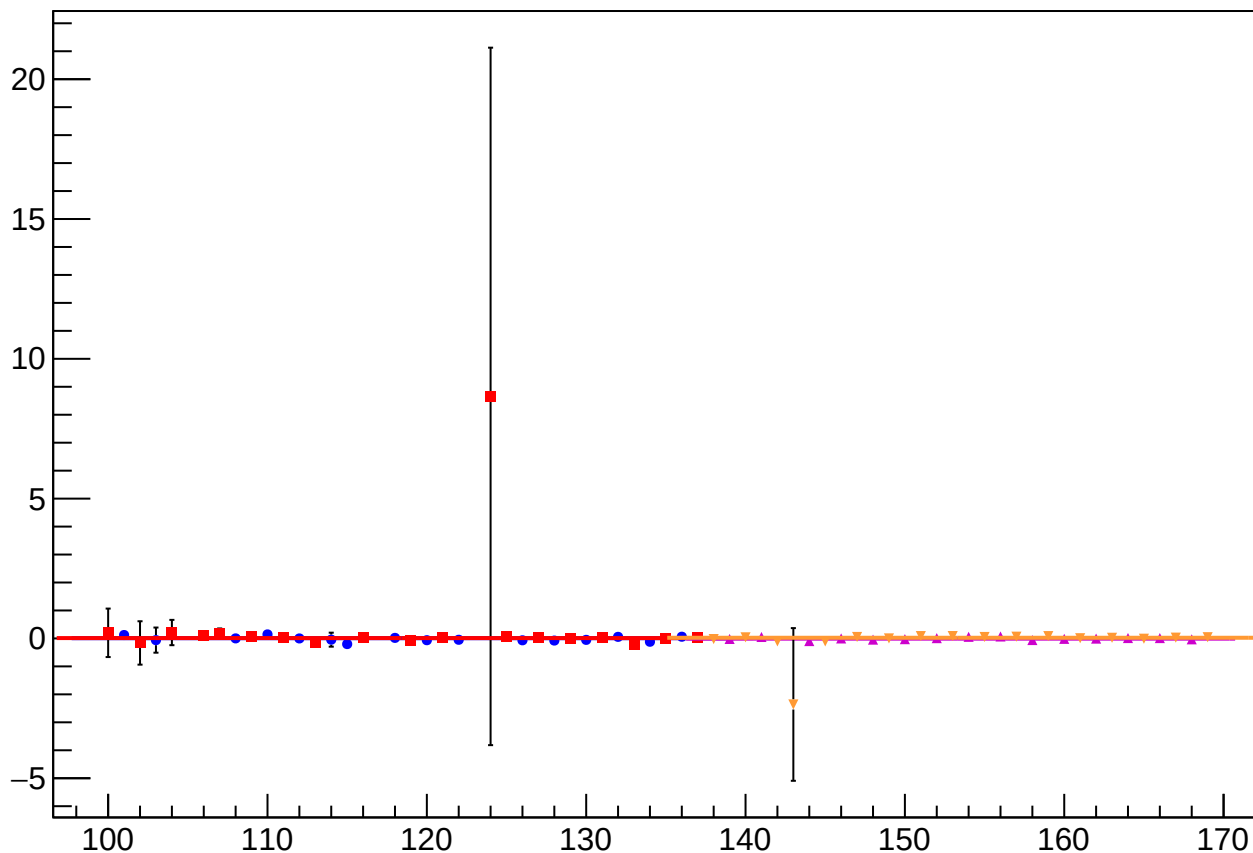
Right: 37.143 $\pm$ 0.008 χ^2 /NDF: 5175953.4/34

In: 35.714 $\pm$ 0.006 χ^2 /NDF: 3886412.2/30

Out: 33.943 $\pm$ 0.006 χ^2 /NDF: 7231459.1/35

All: 34.800 $\pm$ 0.004 χ^2 /NDF: 11157198.5/66

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.024 $\pm$ 0.010 χ^2 /NDF:17.7/16

Right Out: 0.012 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.008 $\pm$ 0.011 χ^2 /NDF:10.7/14

Left: 0.009 $\pm$ 0.008 χ^2 /NDF: 32.9/31

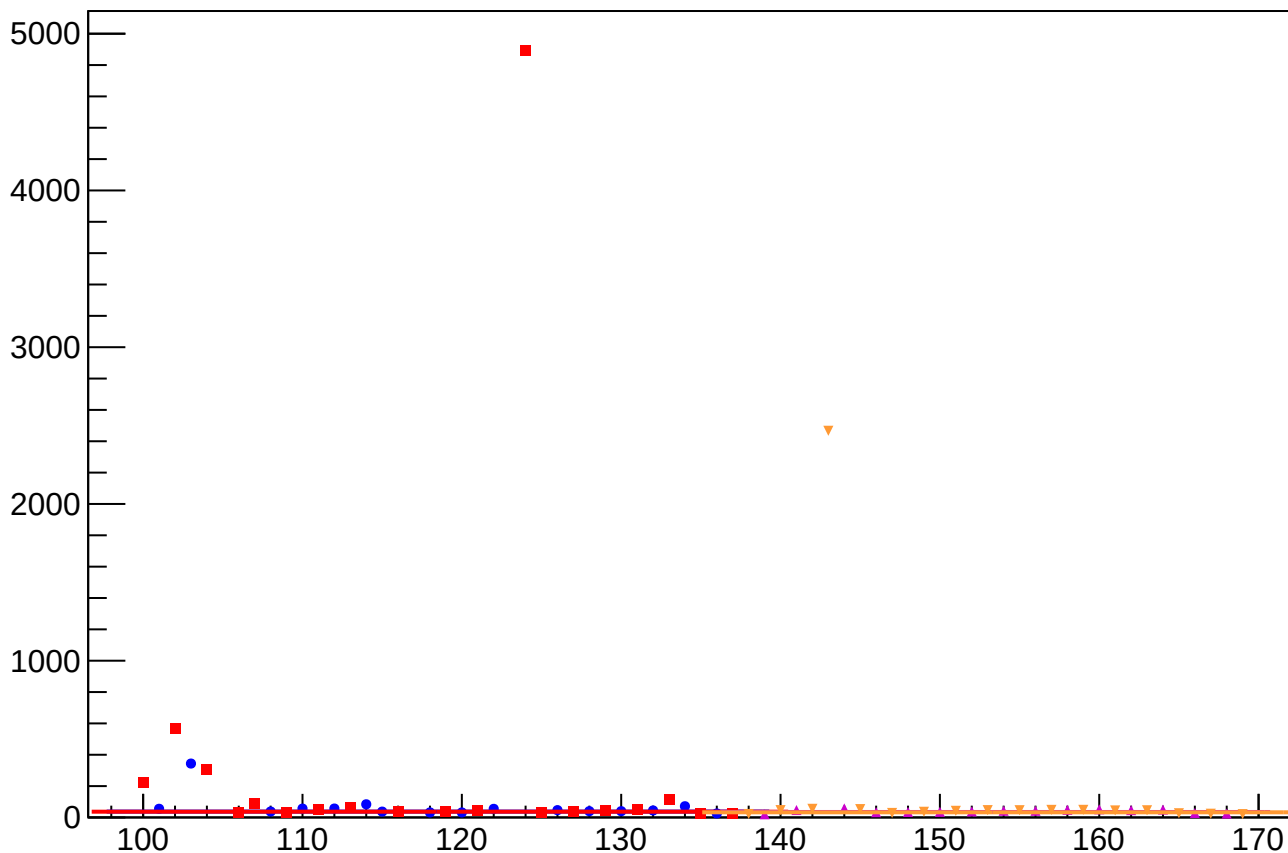
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: -0.003 $\pm$ 0.009 χ^2 /NDF:30.7/30

Out: 0.021 $\pm$ 0.009 χ^2 /NDF:30.6/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 64.8/66

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.494 $\pm$ 0.011 χ^2 /NDF: 1983275.6/15

Left Out: 32.846 $\pm$ 0.007 χ^2 /NDF: 3960562.7/16

Right Out: 36.767 $\pm$ 0.012 χ^2 /NDF: 3190700.2/18

Left In: 34.882 $\pm$ 0.008 χ^2 /NDF: 1867153.7/14

Left: 33.803 $\pm$ 0.005 χ^2 /NDF: 5864031.0/31

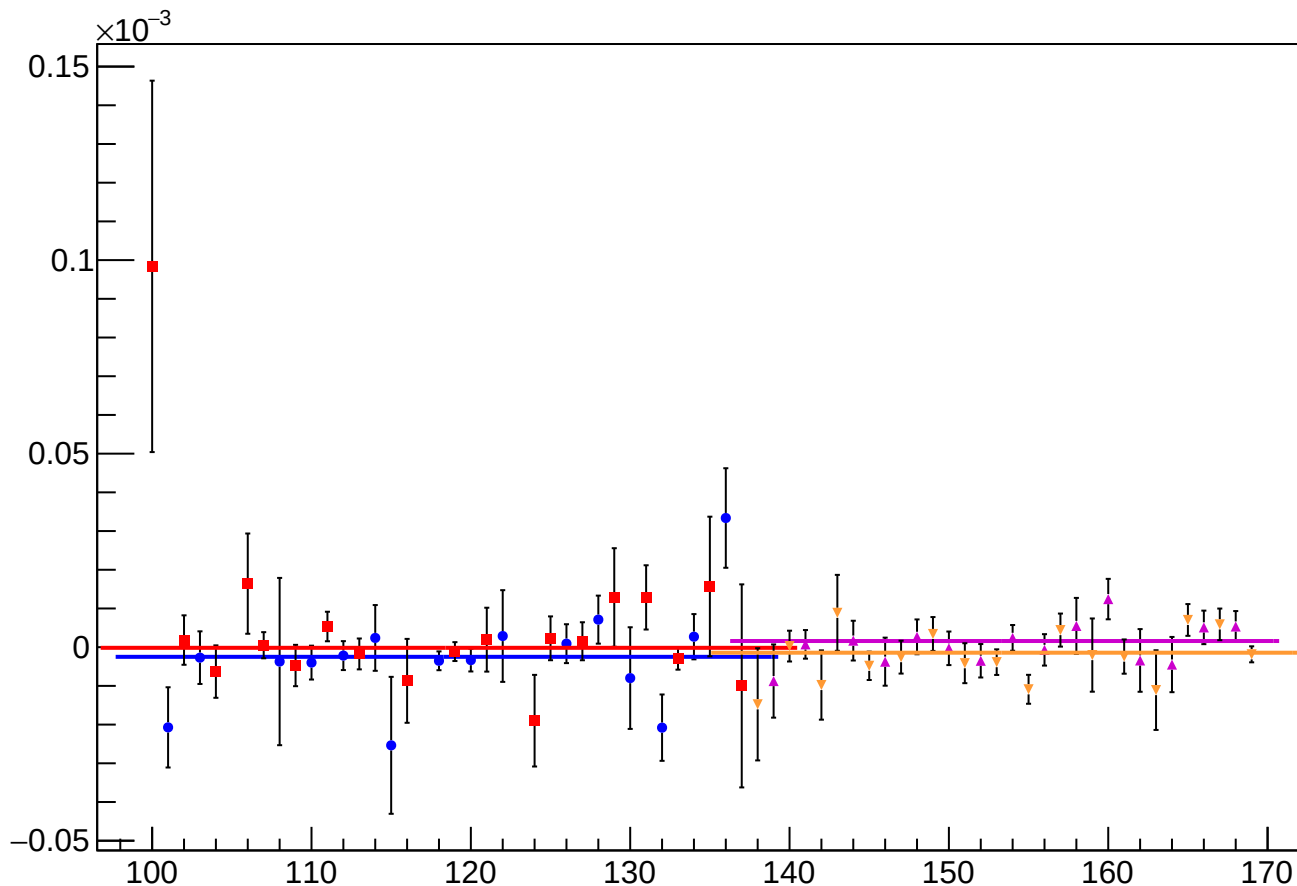
Right: 37.143 $\pm$ 0.008 χ^2 /NDF: 5175953.4/34

In: 35.714 $\pm$ 0.006 χ^2 /NDF: 3886412.2/30

Out: 33.943 $\pm$ 0.006 χ^2 /NDF: 7231459.1/35

All: 34.800 $\pm$ 0.004 χ^2 /NDF: 11157198.5/66

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 21.9/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 22.7/16$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 18.9/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 11.3/14$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 37.5/31$

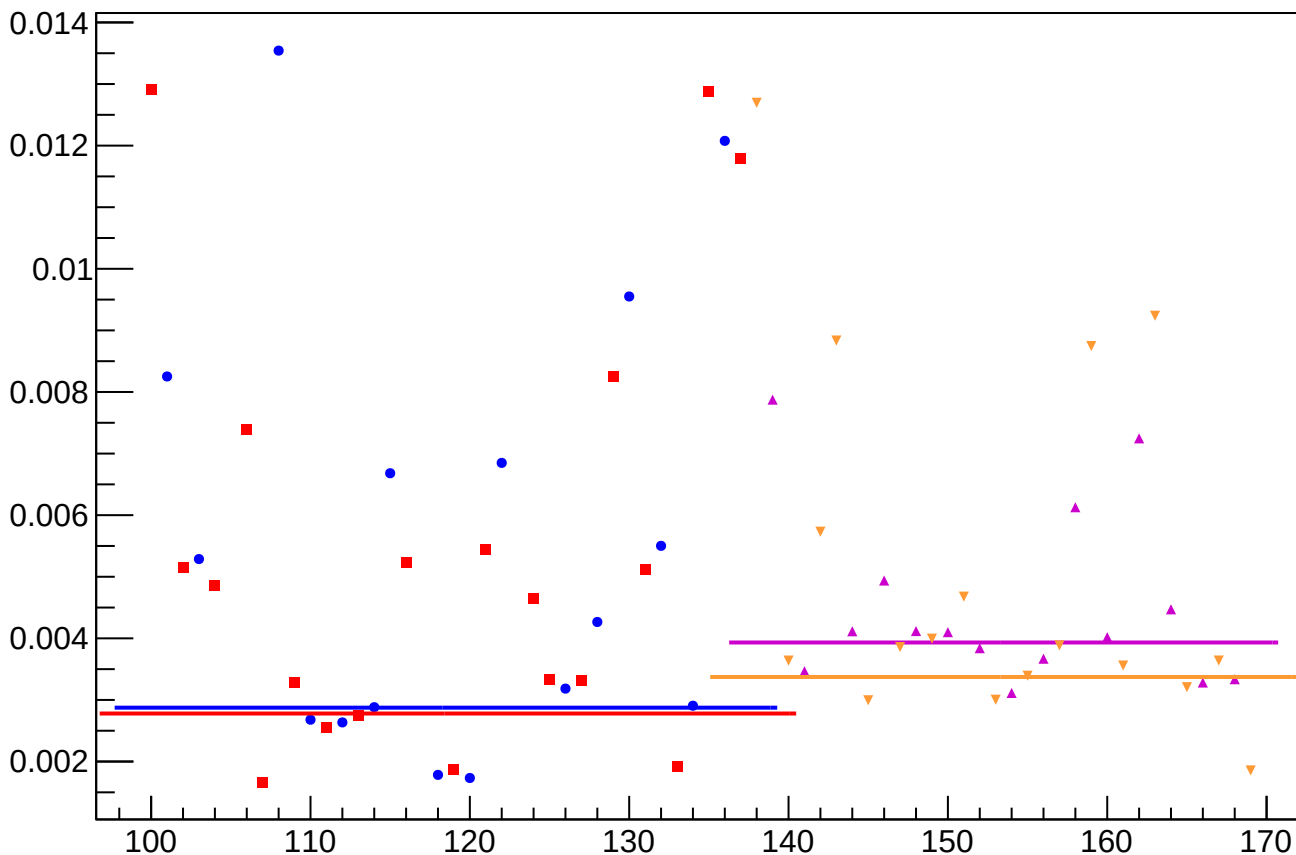
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 42.5/34$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 38.3/30$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 42.2/35$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 80.7/66$

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4152056.9/15

Left Out: 0.003+/-0.000 χ^2/NDF : 4251729.7/16

Right Out: 0.003+/-0.000 χ^2/NDF : 3311178.7/18

Left In: 0.004+/-0.000 χ^2/NDF : 1192787.5/14

Left: 0.004+/-0.000 χ^2/NDF : 5689770.5/31

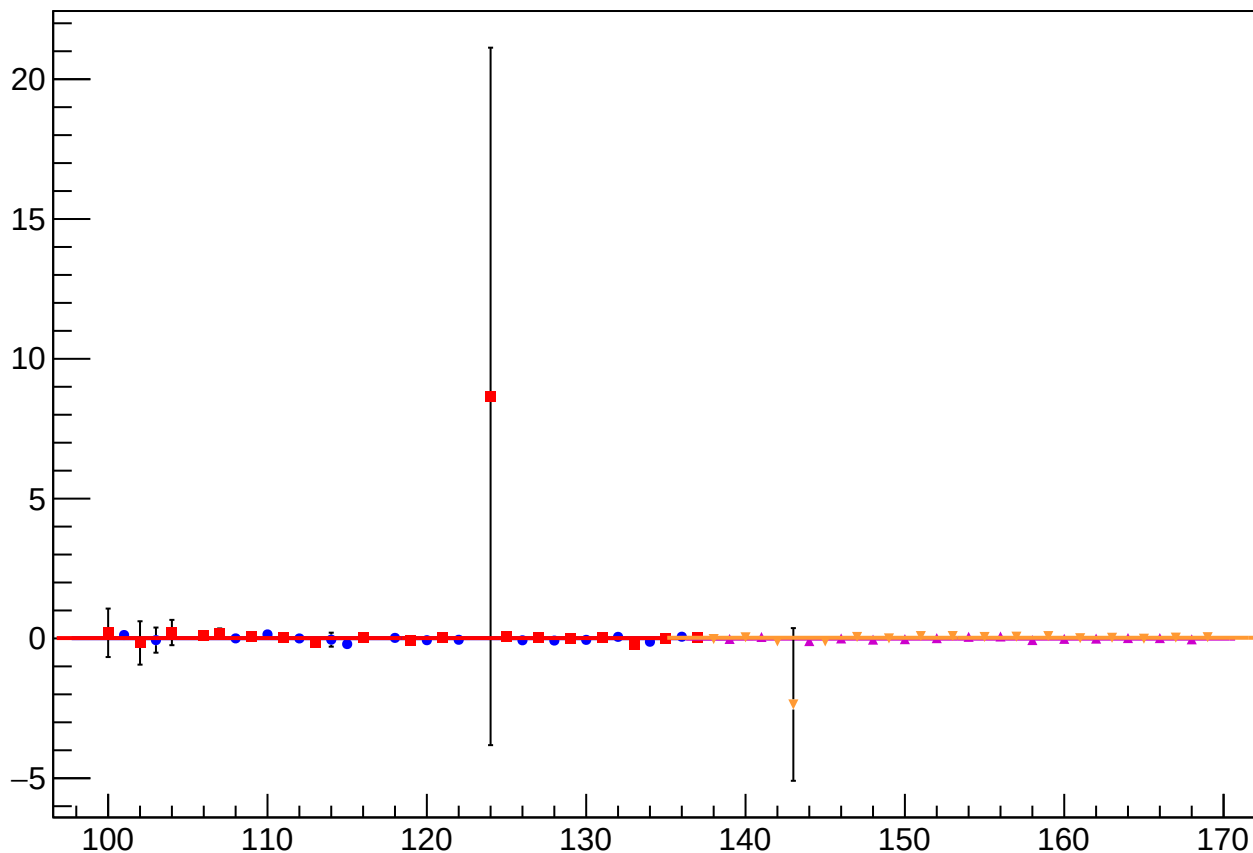
Right: 0.003+/-0.000 χ^2/NDF : 7469105.0/34

In: 0.003+/-0.000 χ^2/NDF : 6042033.0/30

Out: 0.003+/-0.000 χ^2/NDF : 7852886.6/35

All: 0.003+/-0.000 χ^2/NDF : 14041182.0/66

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.024 $\pm$ 0.010 χ^2 /NDF:17.7/16

Right Out: 0.013 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.008 $\pm$ 0.011 χ^2 /NDF:10.7/14

Left: 0.009 $\pm$ 0.008 χ^2 /NDF: 32.9/31

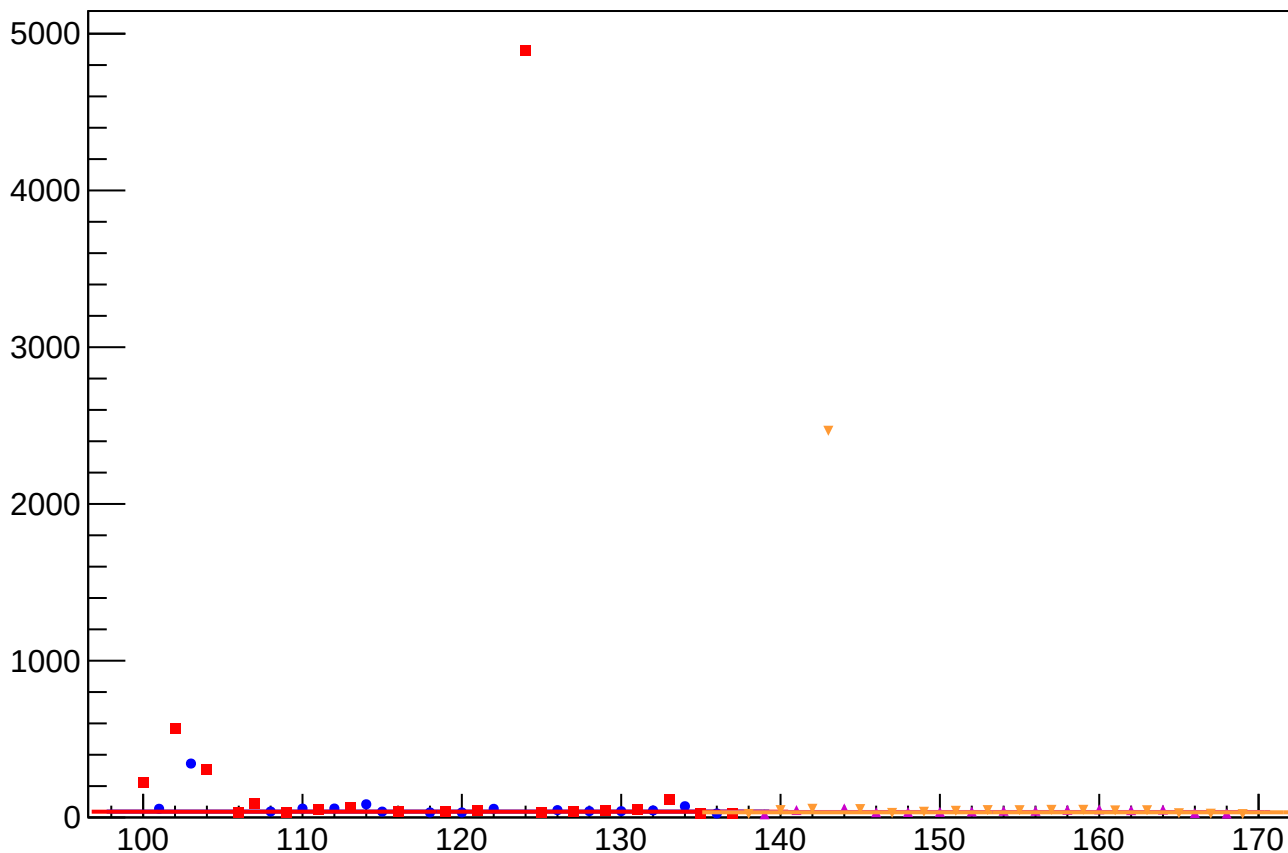
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: -0.003 $\pm$ 0.009 χ^2 /NDF:30.7/30

Out: 0.021 $\pm$ 0.009 χ^2 /NDF:30.6/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 64.8/66

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.495+/-0.011 χ^2/NDF : 1983206.3/15

Left Out: 32.845+/-0.007 χ^2/NDF : 3960620.8/16

Right Out: 36.769+/-0.012 χ^2/NDF : 3190400.7/18

Left In: 34.884+/-0.008 χ^2/NDF : 1866018.7/14

Left: 33.803+/-0.005 χ^2/NDF : 5863068.5/31

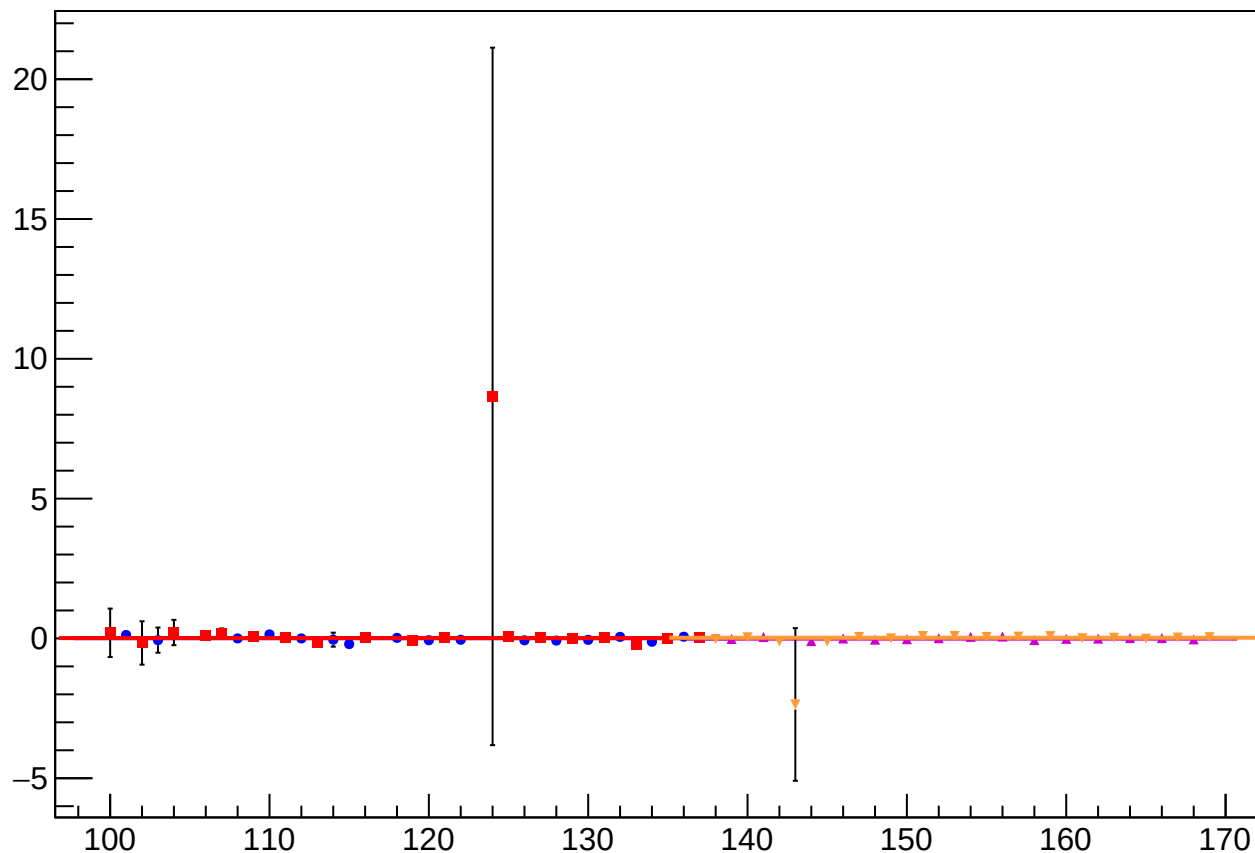
Right: 37.144+/-0.008 χ^2/NDF : 5175578.4/34

In: 35.716+/-0.006 χ^2/NDF : 3885158.5/30

Out: 33.942+/-0.006 χ^2/NDF : 7231322.3/35

All: 34.800+/-0.004 χ^2/NDF : 11155897.2/66

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.016 χ^2 /NDF: 19.3/15

Left Out: 0.024 $\pm$ 0.010 χ^2 /NDF:17.7/16

Right Out: 0.013 $\pm$ 0.017 χ^2 /NDF: 12.6/18

Left In: -0.008 $\pm$ 0.011 χ^2 /NDF:10.7/14

Left: 0.009 $\pm$ 0.008 χ^2 /NDF: 32.9/31

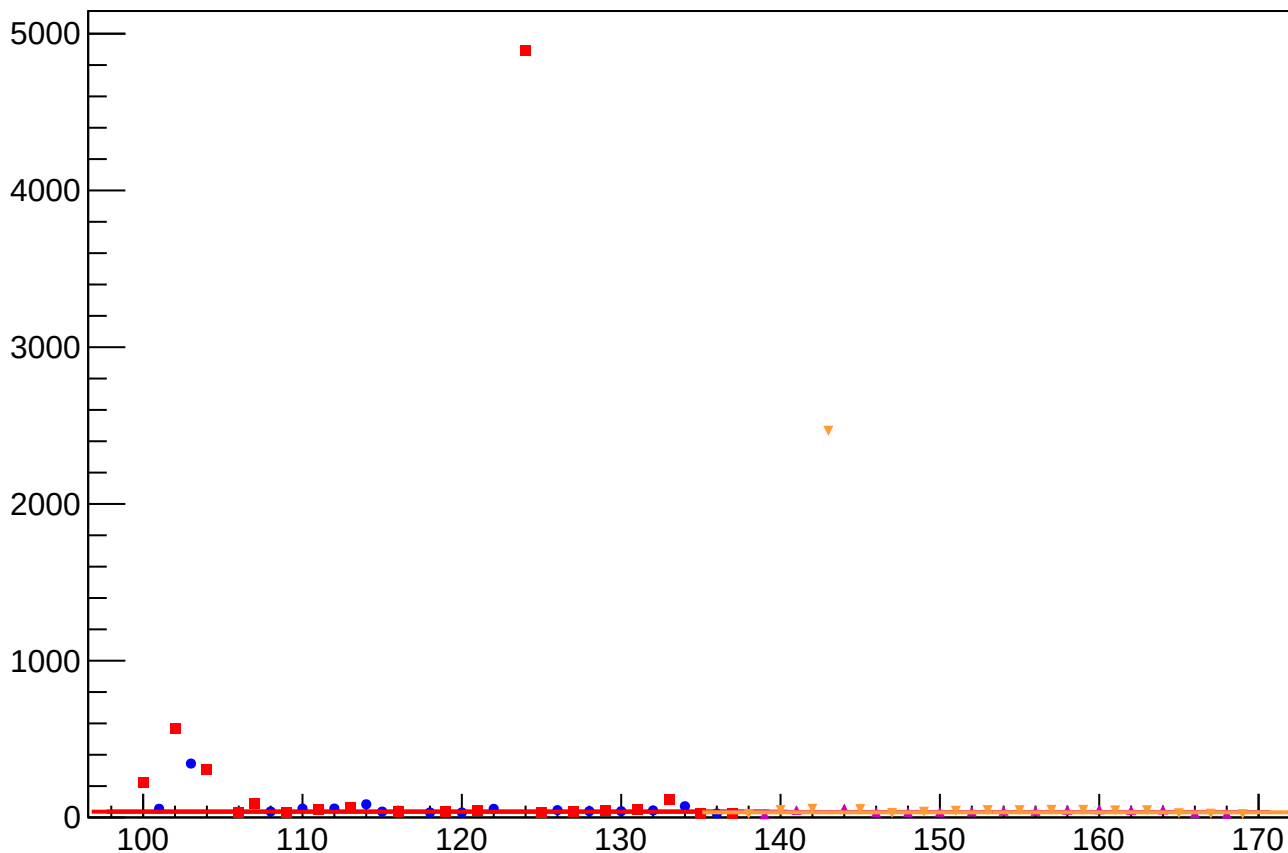
Right: 0.010 $\pm$ 0.012 χ^2 /NDF: 31.9/34

In: -0.003 $\pm$ 0.009 χ^2 /NDF:30.7/30

Out: 0.021 $\pm$ 0.009 χ^2 /NDF:30.6/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 64.8/66

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.495+/-0.011 χ^2/NDF : 1983206.3/15

Left Out: 32.845+/-0.007 χ^2/NDF : 3960620.8/16

Right Out: 36.769+/-0.012 χ^2/NDF : 3190400.7/18

Left In: 34.884+/-0.008 χ^2/NDF : 1866018.7/14

Left: 33.803+/-0.005 χ^2/NDF : 5863068.5/31

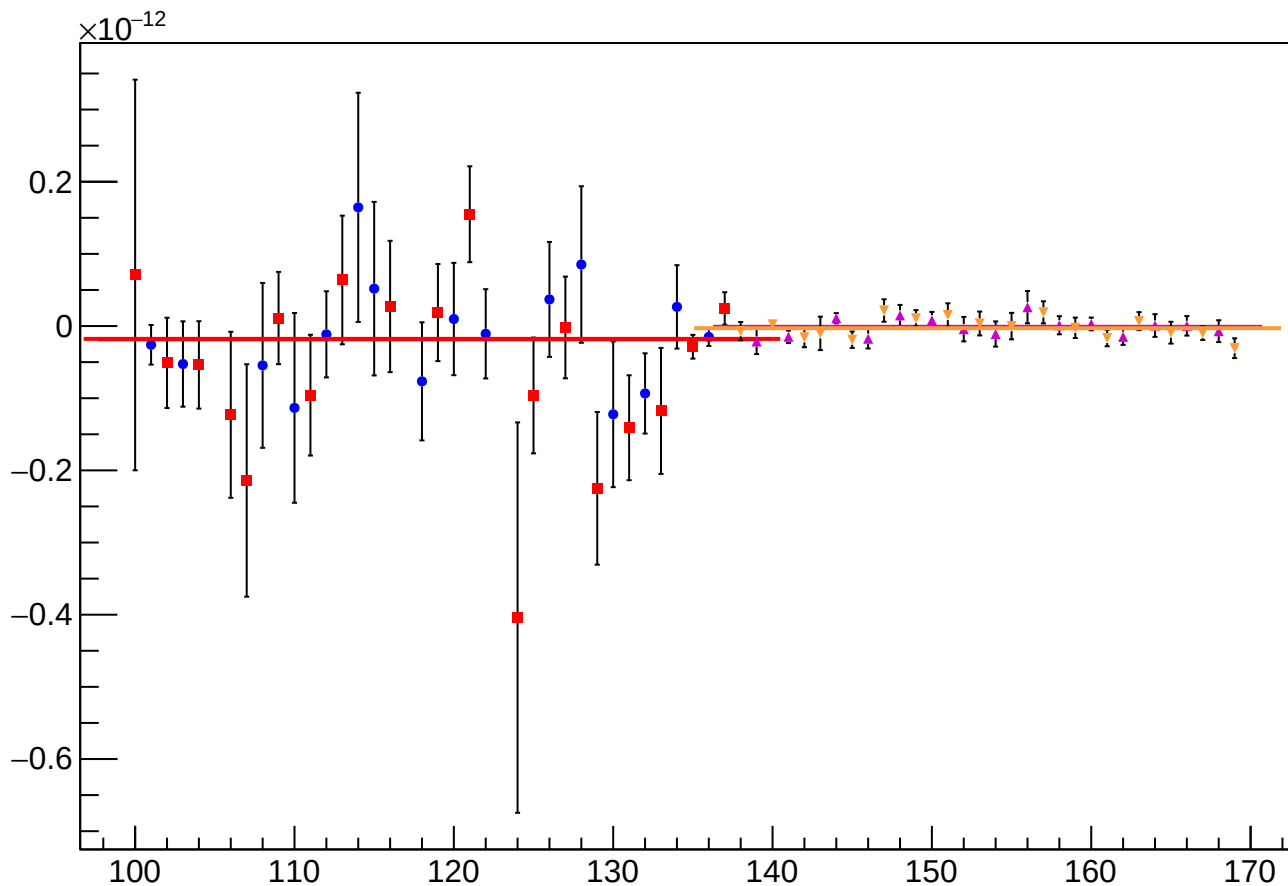
Right: 37.144+/-0.008 χ^2/NDF : 5175578.4/34

In: 35.716+/-0.006 χ^2/NDF : 3885158.5/30

Out: 33.942+/-0.006 χ^2/NDF : 7231322.3/35

All: 34.800+/-0.004 χ^2/NDF : 11155897.2/66

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 8.3/15

Left Out: -0.000+/-0.000 χ^2 /NDF:18.0/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 27.3/18

Left In: -0.000+/-0.000 χ^2 /NDF:13.8/14

Left: -0.000+/-0.000 χ^2 /NDF: 31.9/31

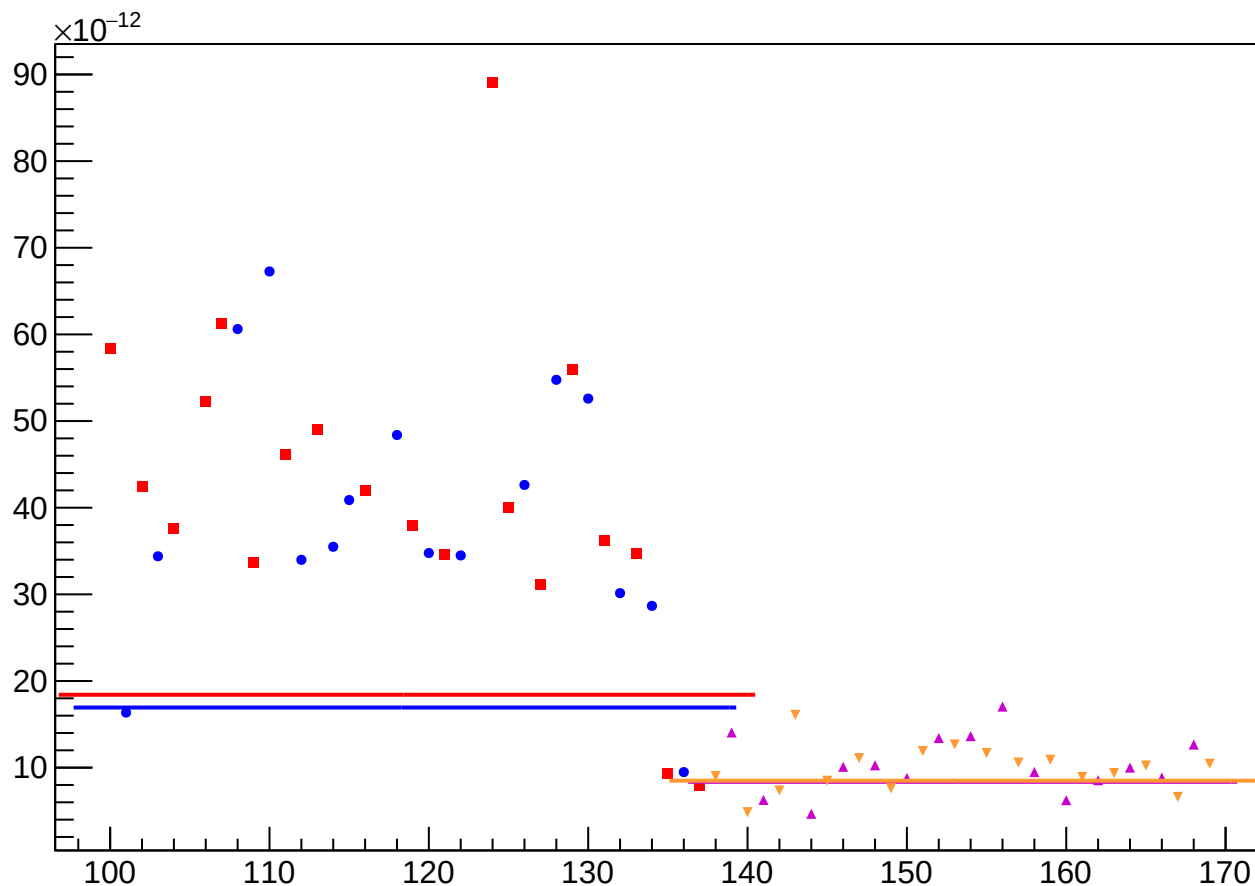
Right: -0.000+/-0.000 χ^2 /NDF: 35.6/34

In: -0.000+/-0.000 χ^2 /NDF:24.8/30

Out: -0.000+/-0.000 χ^2 /NDF:46.9/35

All: -0.000+/-0.000 χ^2 /NDF: 71.8/66

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3207856.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1413001.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3674861.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 1924812.9/14

Left: 0.000+/-0.000 χ^2/NDF : 3339672.0/31

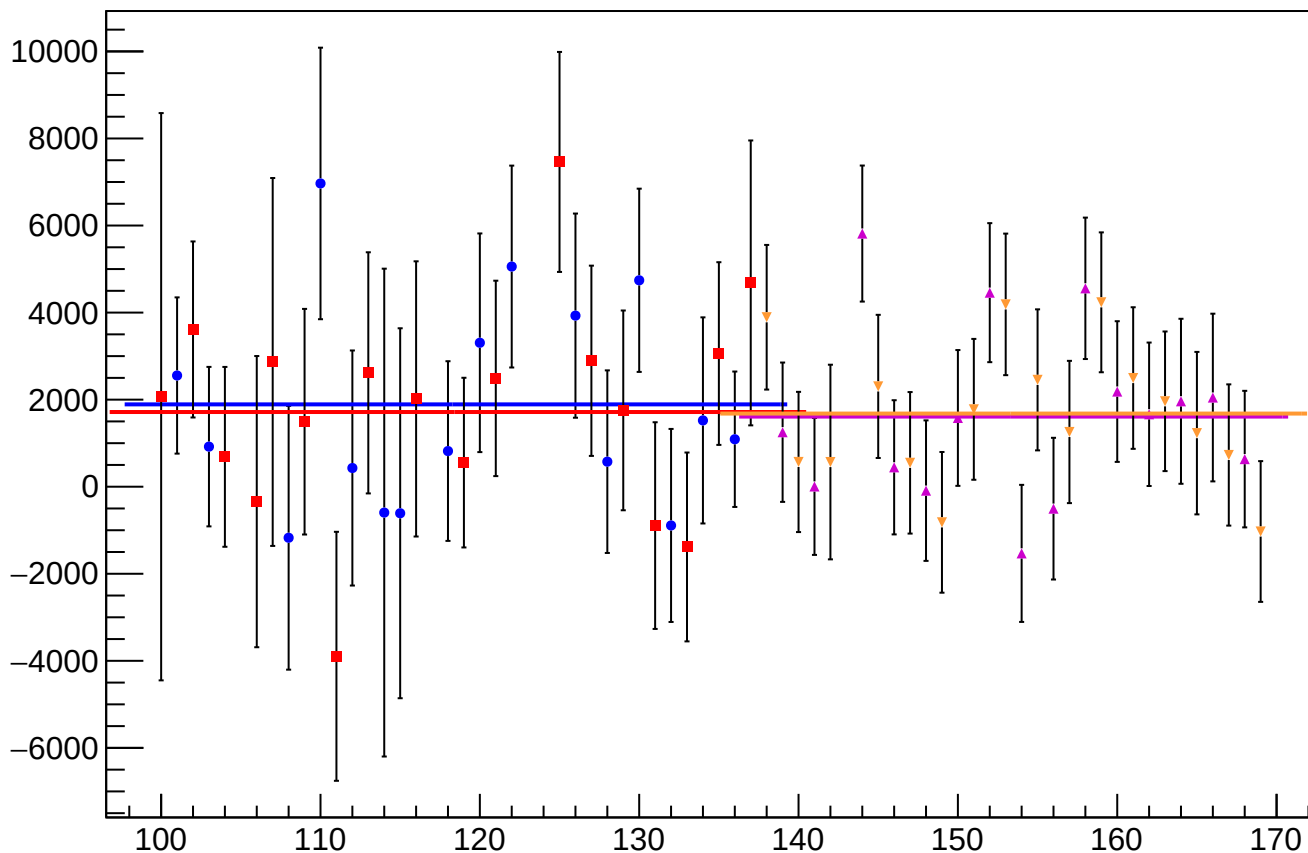
Right: 0.000+/-0.000 χ^2/NDF : 6902390.3/34

In: 0.000+/-0.000 χ^2/NDF : 6496189.1/30

Out: 0.000+/-0.000 χ^2/NDF : 6586362.1/35

All: 0.000+/-0.000 χ^2/NDF : 13082929.3/66

reg_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1891.457 $\pm$ 572.244 χ^2 /NDF: 12.2/15

Left Out: 1680.194 $\pm$ 415.280 χ^2 /NDF:14.2/15

Right Out: 1715.909 $\pm$ 589.518 χ^2 /NDF: 16.0/17

Left In: 1611.120 $\pm$ 419.670 χ^2 /NDF:22.8/14

Left: 1646.020 $\pm$ 295.187 χ^2 /NDF: 37.0/30

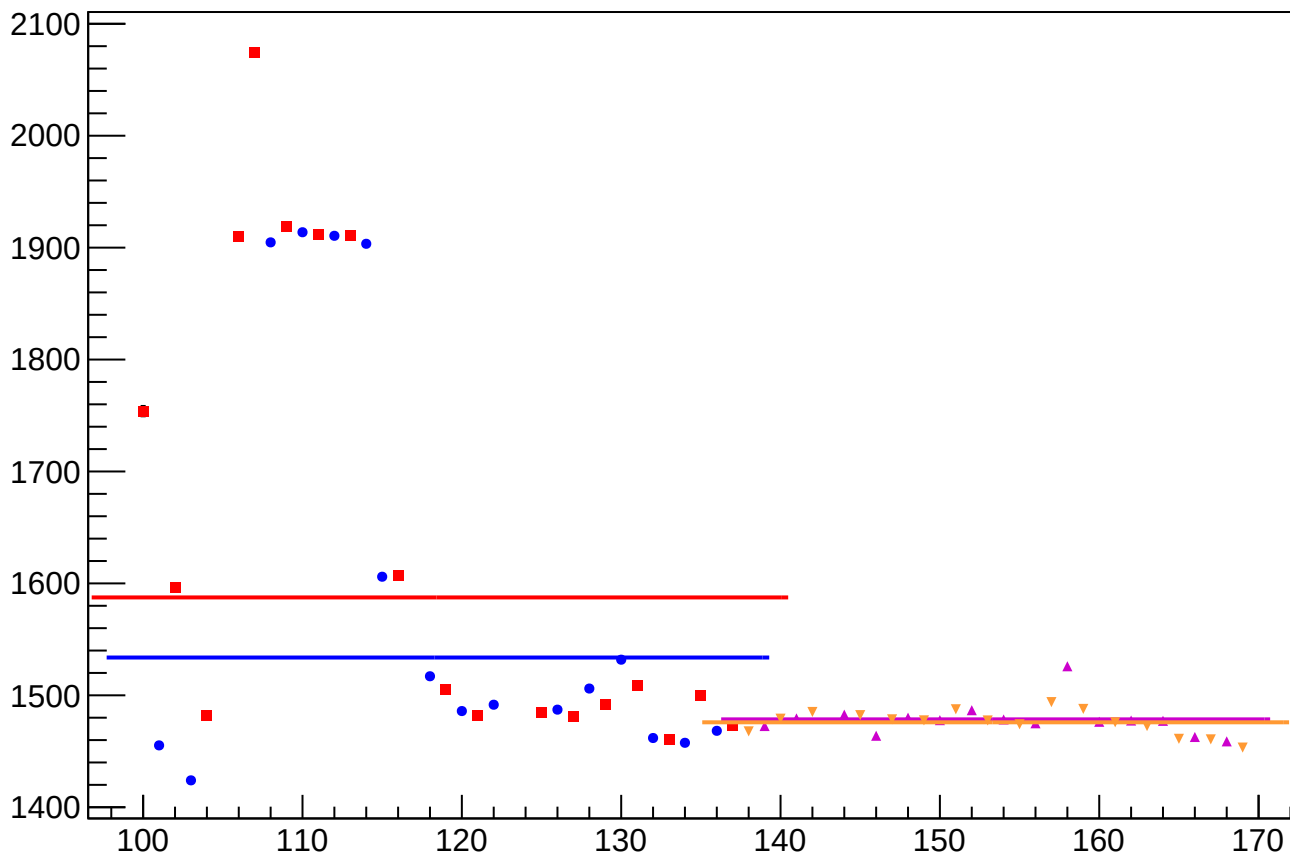
Right: 1806.293 $\pm$ 410.609 χ^2 /NDF: 28.2/33

In: 1709.164 $\pm$ 338.417 χ^2 /NDF:35.1/30

Out: 1692.039 $\pm$ 339.501 χ^2 /NDF:30.2/33

All: 1700.629 $\pm$ 239.679 χ^2 /NDF: 65.3/64

reg_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1533.771 $\pm$ 0.405 χ^2/NDF : 129271.6/15

Left Out: 1475.886 $\pm$ 0.294 χ^2/NDF :1290.7/15

Right Out: 1587.461 $\pm$ 0.417 χ^2/NDF : 171988.2/17

Left In: 1478.509 $\pm$ 0.297 χ^2/NDF :2446.0/14

Left: 1477.184 $\pm$ 0.209 χ^2/NDF : 3776.2/30

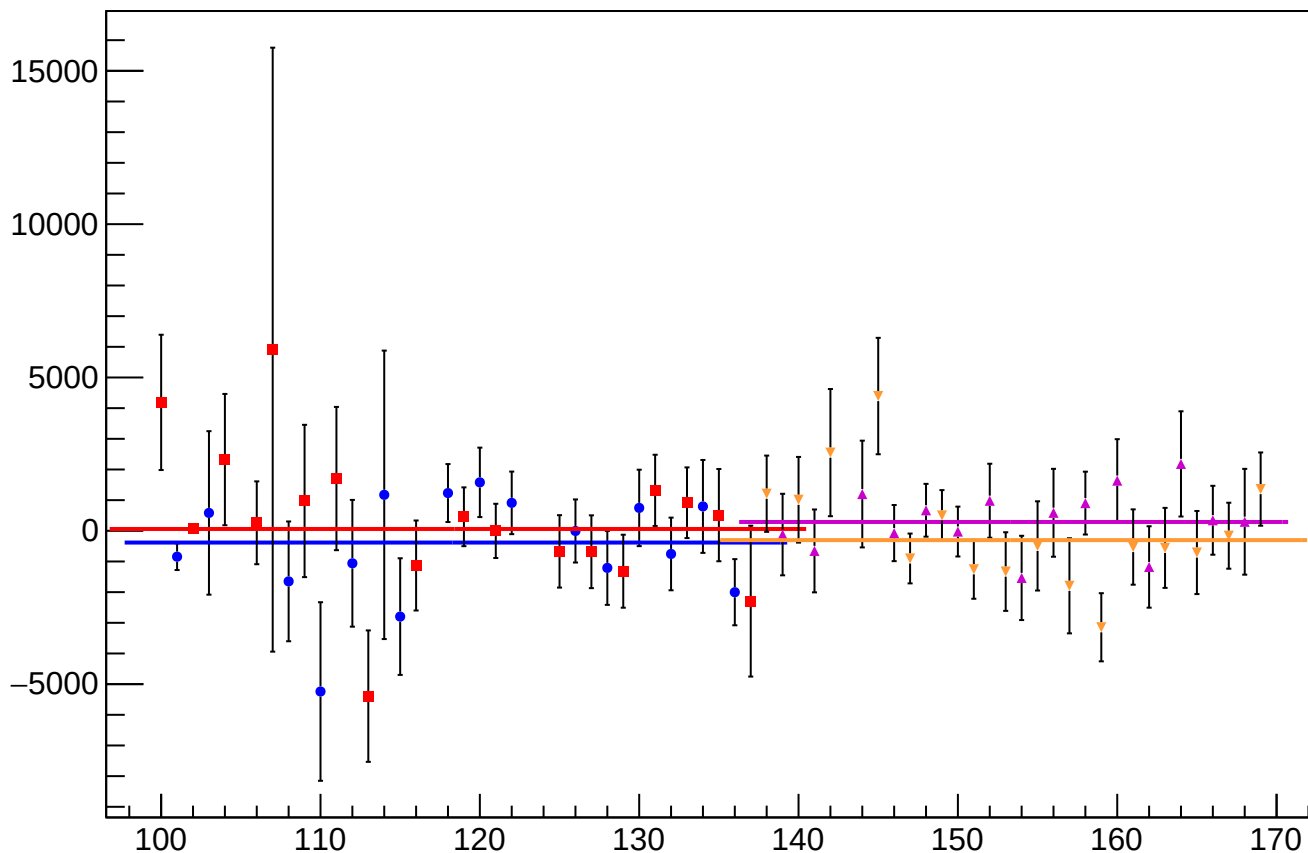
Right: 1559.818 $\pm$ 0.290 χ^2/NDF : 309801.2/33

In: 1497.836 $\pm$ 0.239 χ^2/NDF :143846.0/30

Out: 1512.891 $\pm$ 0.240 χ^2/NDF :221160.8/33

All: 1505.339 $\pm$ 0.169 χ^2/NDF : 366979.5/64

asym_usl_atl1_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -382.787 ± 272.209 $\chi^2/\text{NDF}: 18.2/15$

Left Out: -303.521 ± 296.203 $\chi^2/\text{NDF}: 23.1/15$

Right Out: 59.970 ± 127.700 $\chi^2/\text{NDF}: 17.8/17$

Left In: 288.209 ± 305.155 $\chi^2/\text{NDF}: 7.3/14$

Left: -16.462 ± 212.541 $\chi^2/\text{NDF}: 32.3/30$

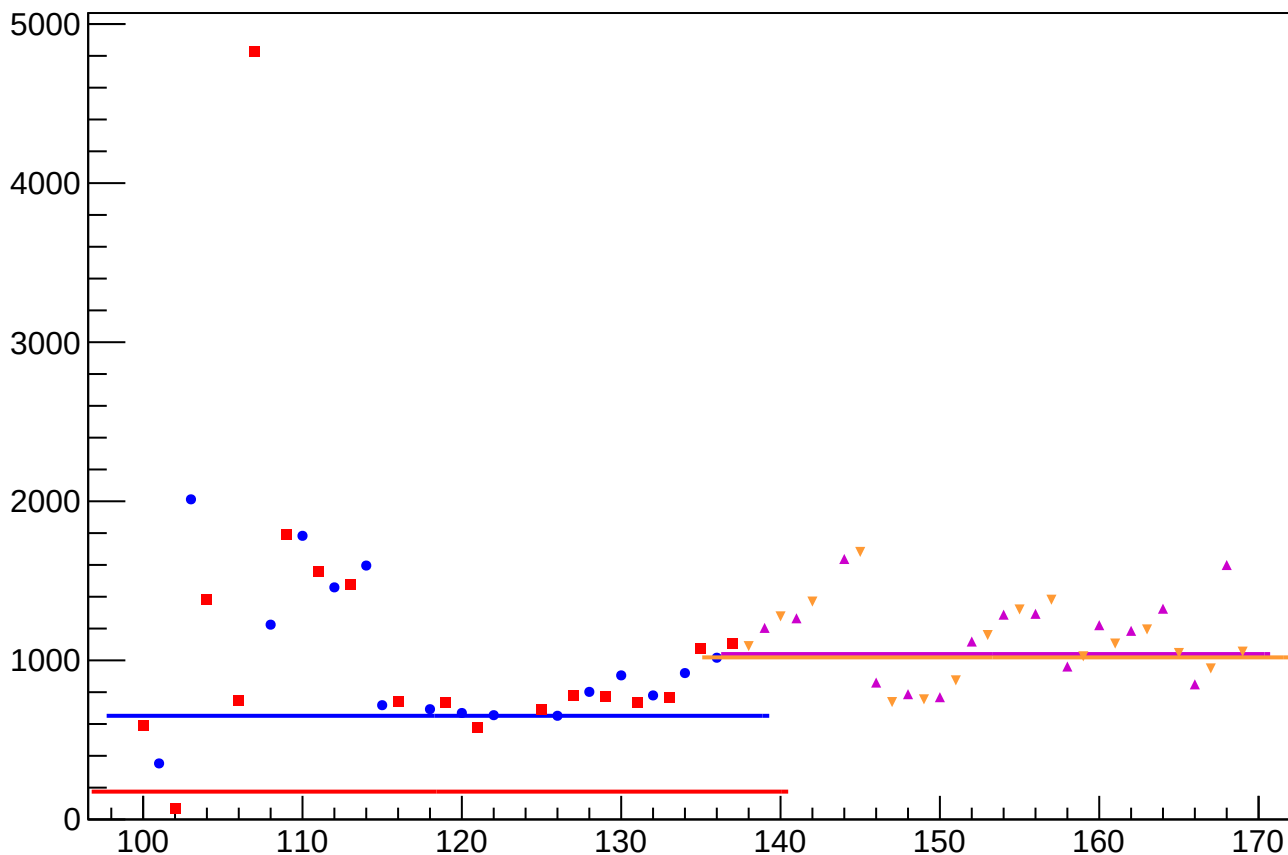
Right: -19.895 ± 115.611 $\chi^2/\text{NDF}: 38.1/33$

In: -85.453 ± 203.134 $\chi^2/\text{NDF}: 28.2/30$

Out: 2.998 ± 117.267 $\chi^2/\text{NDF}: 42.1/33$

All: -19.111 ± 101.559 $\chi^2/\text{NDF}: 70.5/64$

asym_usl_atl1_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 651.523+/-0.192 χ^2/NDF : 2762656.2/15

Left Out: 1018.788+/-0.209 χ^2/NDF : 1139917.7/15

Right Out: 174.898+/-0.090 χ^2/NDF : 9761228.2/17

Left In: 1039.672+/-0.216 χ^2/NDF : 1323694.2/14

Left: 1028.919+/-0.150 χ^2/NDF : 2468435.1/30

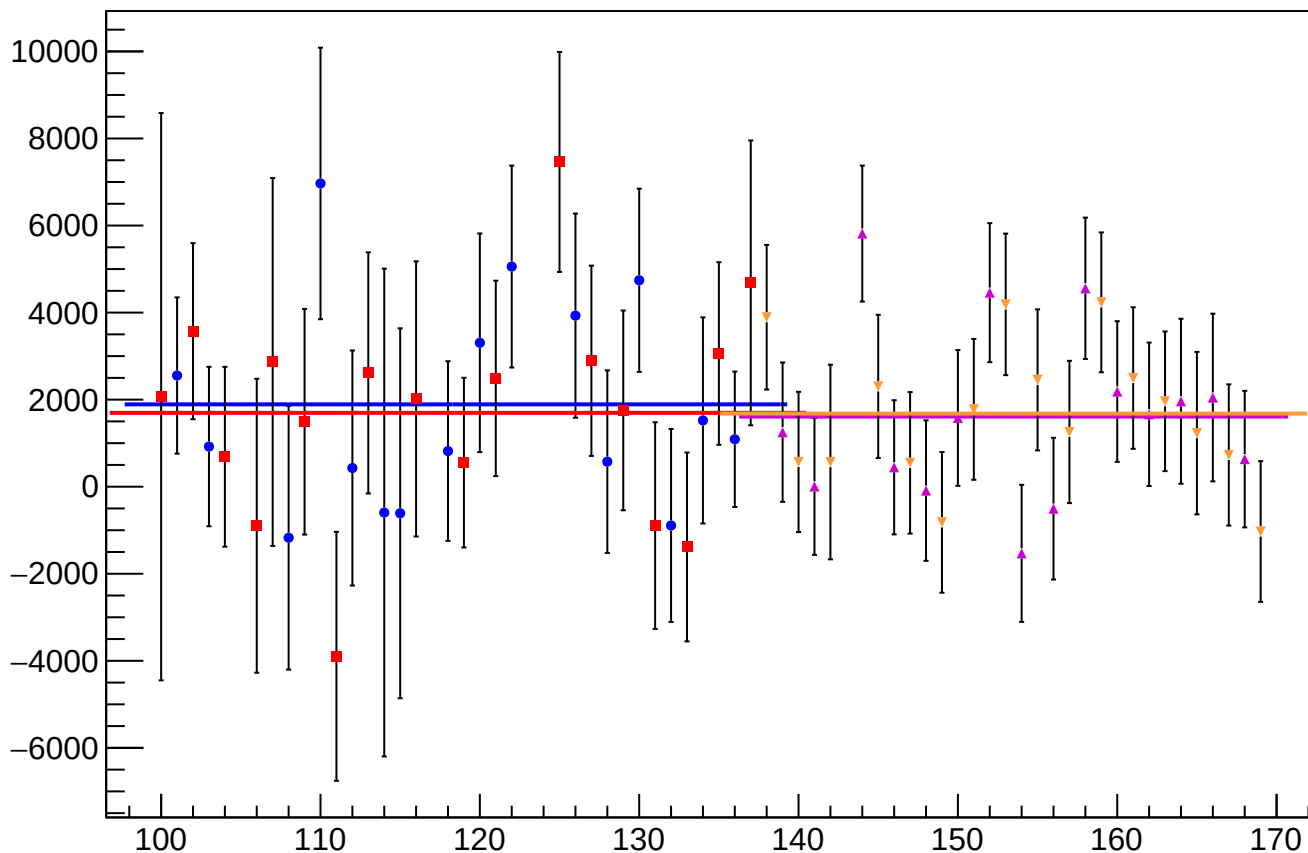
Right: 260.873+/-0.082 χ^2/NDF : 17549506.9/33

In: 823.521+/-0.144 χ^2/NDF : 5888315.1/30

Out: 307.166+/-0.083 χ^2/NDF : 24590578.6/33

All: 436.234+/-0.072 χ^2/NDF : 40171629.4/64

cor_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1891.562 $\pm$ 572.244 χ^2 /NDF: 12.2/15

Left Out: 1680.148 $\pm$ 415.280 χ^2 /NDF:14.2/15

Right Out: 1696.987 $\pm$ 589.699 χ^2 /NDF: 16.2/17

Left In: 1611.209 $\pm$ 419.670 χ^2 /NDF:22.8/14

Left: 1646.041 $\pm$ 295.187 χ^2 /NDF: 37.0/30

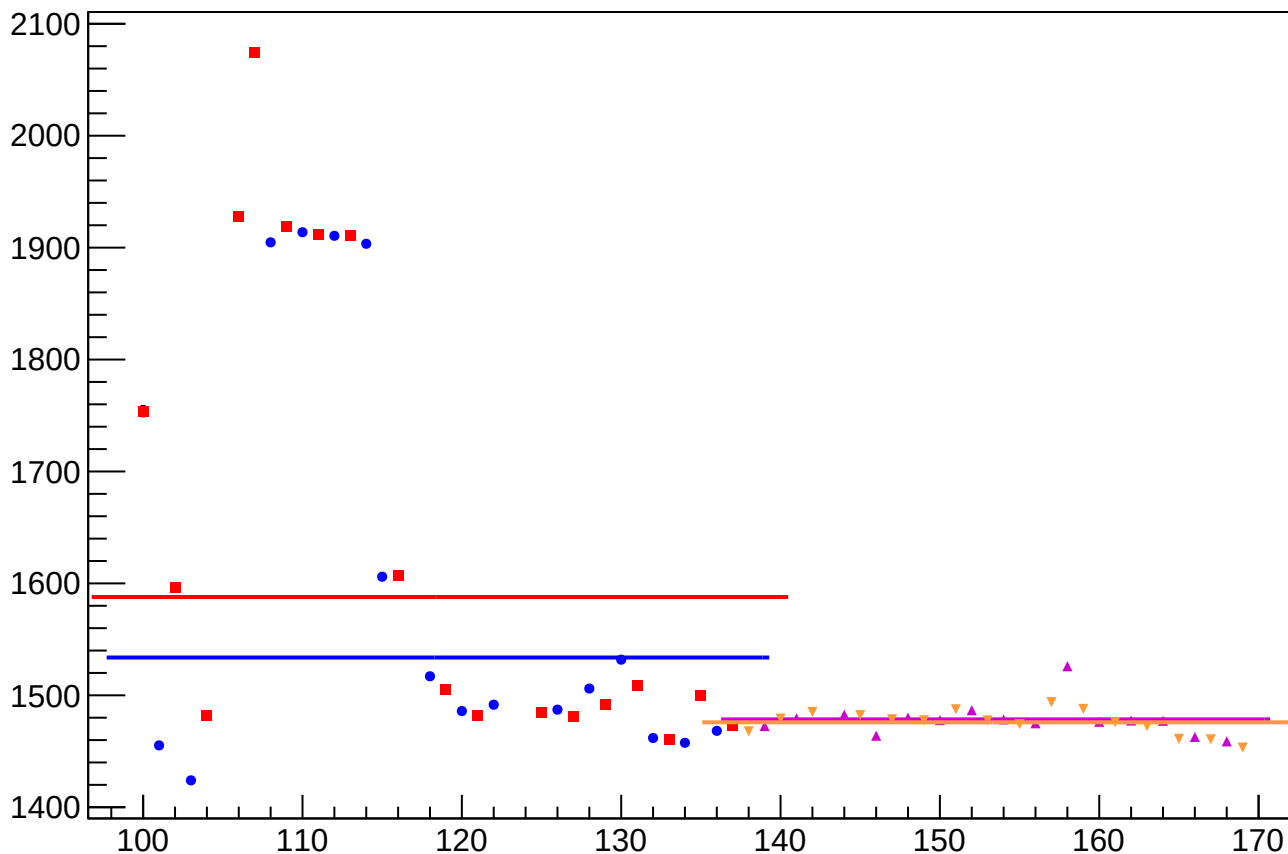
Right: 1797.197 $\pm$ 410.670 χ^2 /NDF: 28.4/33

In: 1709.259 $\pm$ 338.417 χ^2 /NDF:35.1/30

Out: 1685.730 $\pm$ 339.536 χ^2 /NDF:30.4/33

All: 1697.534 $\pm$ 239.692 χ^2 /NDF: 65.5/64

cor_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1533.771 $\pm$ 0.405 χ^2/NDF : 129271.5/15

Left Out: 1475.886 $\pm$ 0.294 χ^2/NDF :1290.7/15

Right Out: 1587.846 $\pm$ 0.417 χ^2/NDF : 173766.9/17

Left In: 1478.509 $\pm$ 0.297 χ^2/NDF :2446.0/14

Left: 1477.184 $\pm$ 0.209 χ^2/NDF : 3776.2/30

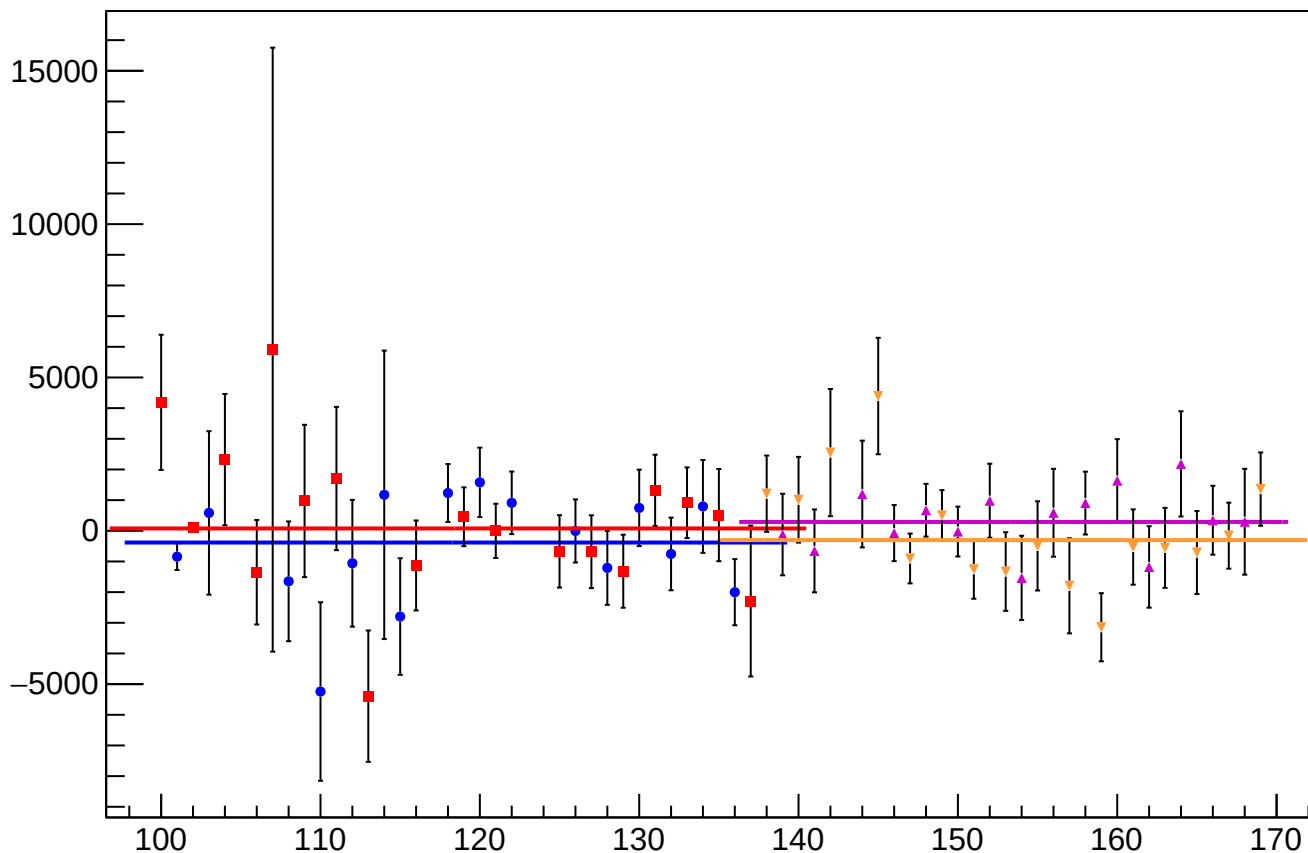
Right: 1559.996 $\pm$ 0.290 χ^2/NDF : 311699.9/33

In: 1497.836 $\pm$ 0.239 χ^2/NDF :143846.0/30

Out: 1513.003 $\pm$ 0.240 χ^2/NDF :223250.6/33

All: 1505.395 $\pm$ 0.169 χ^2/NDF : 369098.6/64

asym_usl_atl1_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -382.761 ± 272.209 χ^2/NDF : 18.2/15

Left Out: -303.534 ± 296.204 χ^2/NDF : 23.1/15

Right Out: 76.754 ± 138.137 χ^2/NDF : 18.5/17

Left In: 288.305 ± 305.155 χ^2/NDF : 7.3/14

Left: -16.422 ± 212.542 χ^2/NDF : 32.3/30

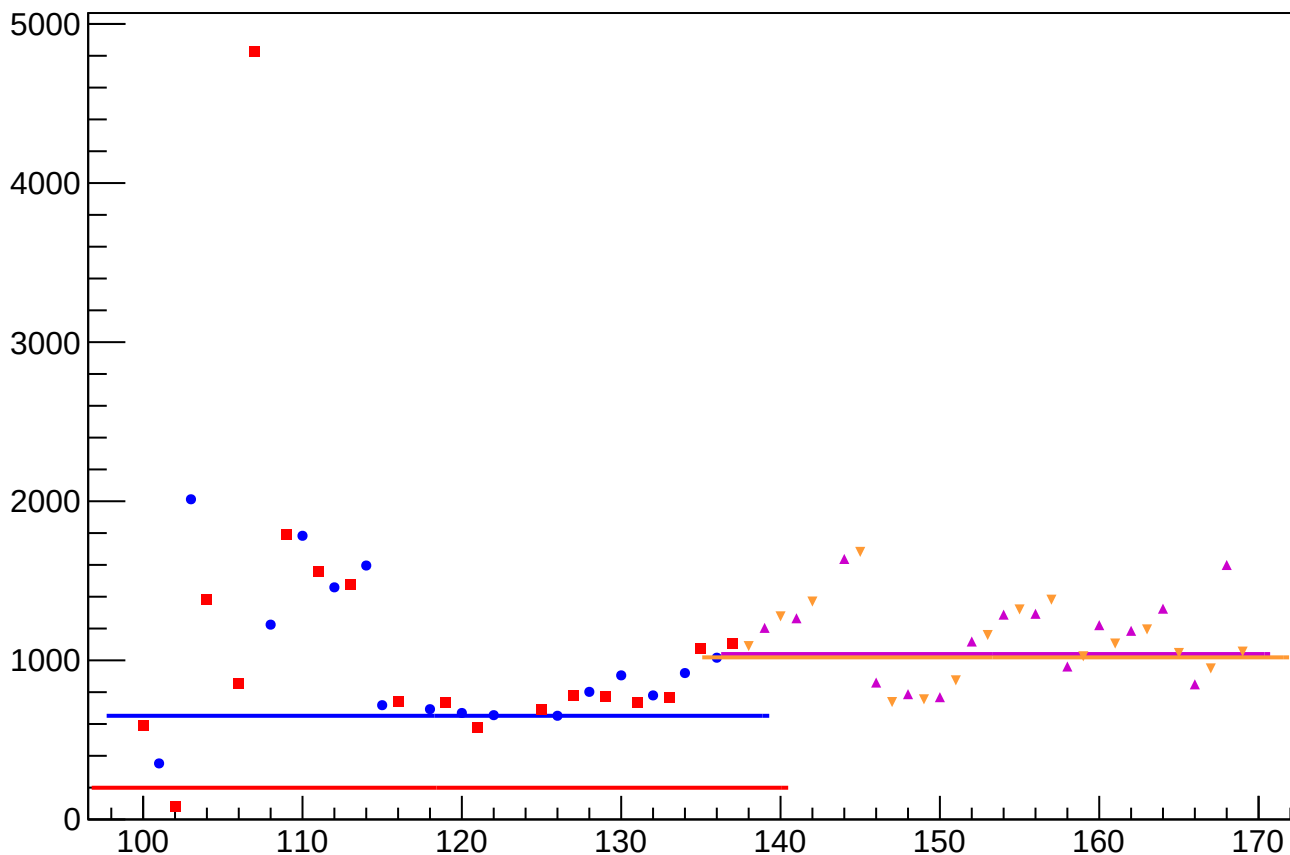
Right: -17.348 ± 123.184 χ^2/NDF : 38.9/33

In: -85.397 ± 203.134 χ^2/NDF : 28.2/30

Out: 8.820 ± 125.192 χ^2/NDF : 42.9/33

All: -17.115 ± 106.577 χ^2/NDF : 71.3/64

asym_usl_atl1_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 651.521+/-0.192 χ^2/NDF : 2762681.5/15

Left Out: 1018.790+/-0.209 χ^2/NDF : 1139928.9/15

Right Out: 199.344+/-0.098 χ^2/NDF : 9284792.6/17

Left In: 1039.671+/-0.216 χ^2/NDF : 1323792.0/14

Left: 1028.920+/-0.150 χ^2/NDF : 2468542.5/30

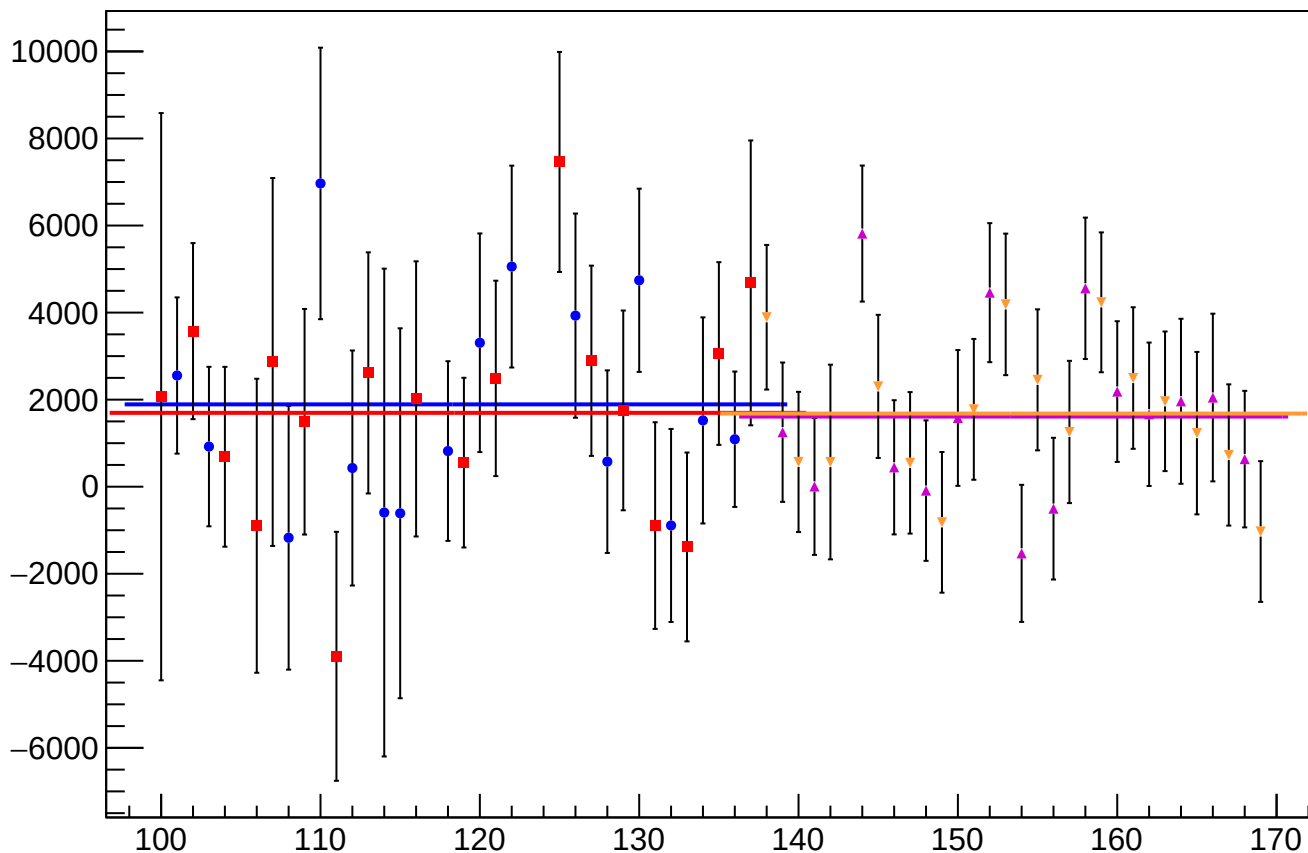
Right: 291.943+/-0.087 χ^2/NDF : 16436092.9/33

In: 823.519+/-0.144 χ^2/NDF : 5888443.1/30

Out: 345.728+/-0.089 χ^2/NDF : 22997312.5/33

All: 477.252+/-0.075 χ^2/NDF : 36904667.4/64

eigen_cor_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1891.562 $\pm$ 572.244 χ^2 /NDF: 12.2/15

Left Out: 1680.148 $\pm$ 415.280 χ^2 /NDF:14.2/15

Right Out: 1696.987 $\pm$ 589.699 χ^2 /NDF: 16.2/17

Left In: 1611.209 $\pm$ 419.670 χ^2 /NDF:22.8/14

Left: 1646.041 $\pm$ 295.187 χ^2 /NDF: 37.0/30

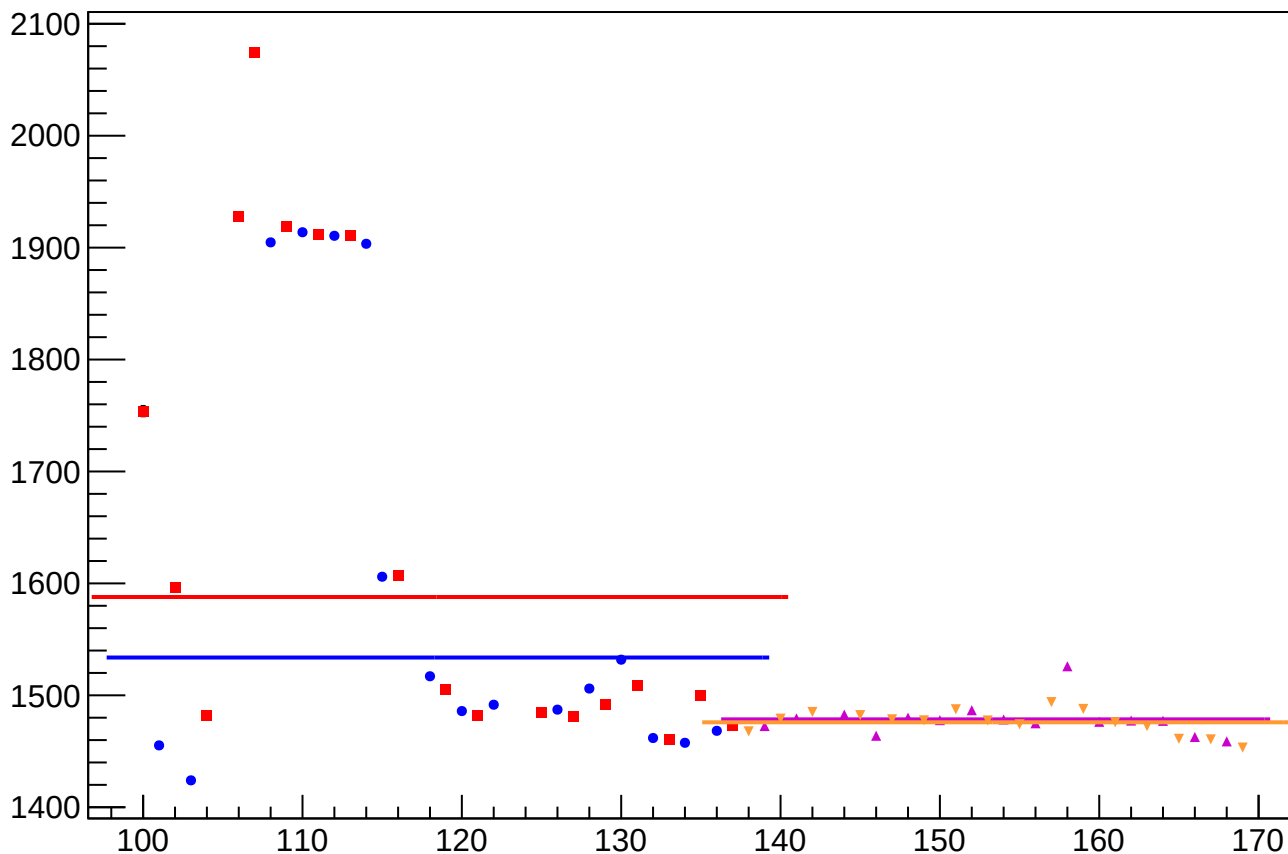
Right: 1797.197 $\pm$ 410.670 χ^2 /NDF: 28.4/33

In: 1709.259 $\pm$ 338.417 χ^2 /NDF:35.1/30

Out: 1685.730 $\pm$ 339.536 χ^2 /NDF:30.4/33

All: 1697.534 $\pm$ 239.692 χ^2 /NDF: 65.5/64

eigen_cor_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1533.771 $\pm$ 0.405 χ^2 /NDF: 129271.5/15

Left Out: 1475.886 $\pm$ 0.294 χ^2 /NDF:1290.7/15

Right Out: 1587.846 $\pm$ 0.417 χ^2 /NDF: 173766.9/17

Left In: 1478.509 $\pm$ 0.297 χ^2 /NDF:2446.0/14

Left: 1477.184 $\pm$ 0.209 χ^2 /NDF: 3776.2/30

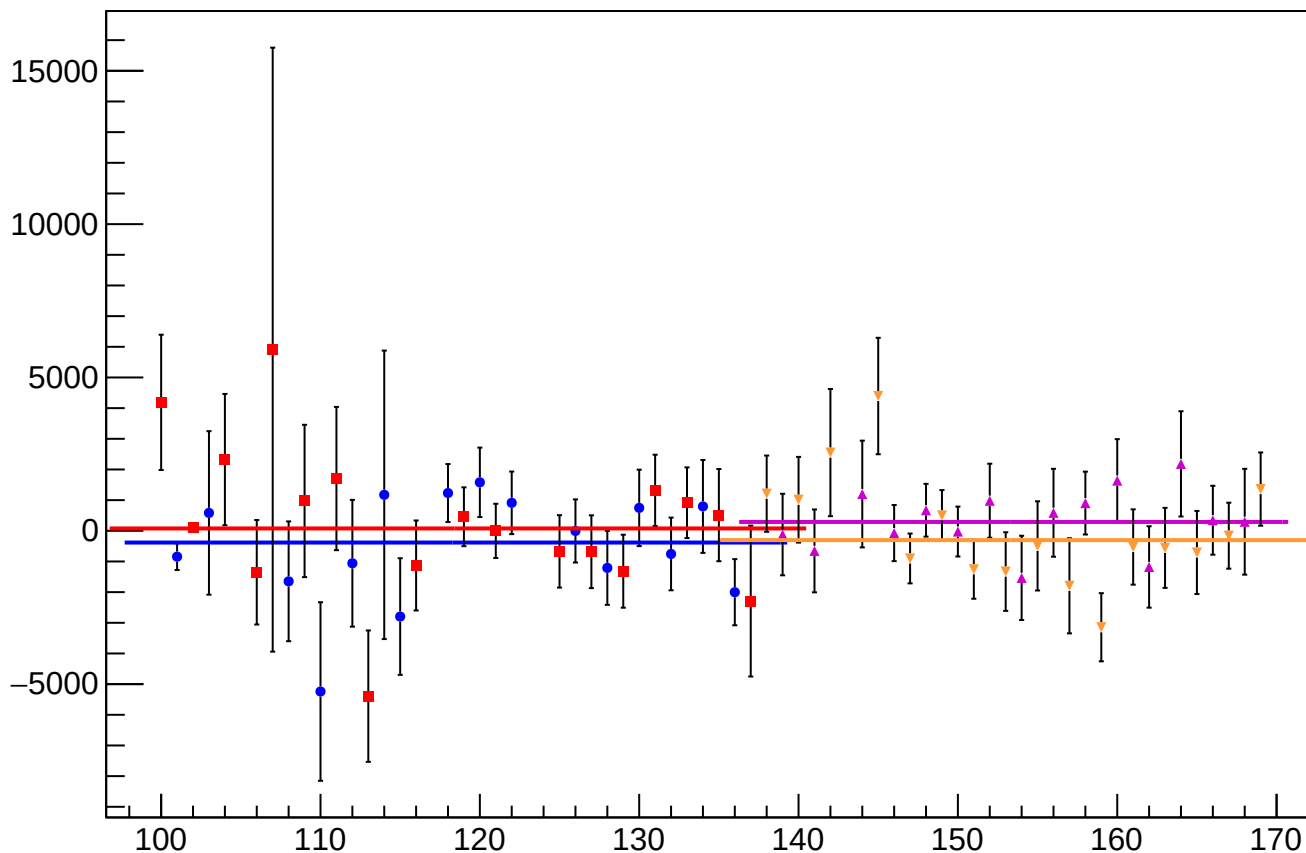
Right: 1559.996 $\pm$ 0.290 χ^2 /NDF: 311699.9/33

In: 1497.836 $\pm$ 0.239 χ^2 /NDF:143846.0/30

Out: 1513.003 $\pm$ 0.240 χ^2 /NDF:223250.6/33

All: 1505.395 $\pm$ 0.169 χ^2 /NDF: 369098.6/64

asym_usl_atl1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -382.761 ± 272.209 $\chi^2/\text{NDF}: 18.2/15$

Left Out: -303.534 ± 296.204 $\chi^2/\text{NDF}: 23.1/15$

Right Out: 76.754 ± 138.137 $\chi^2/\text{NDF}: 18.5/17$

Left In: 288.305 ± 305.155 $\chi^2/\text{NDF}: 7.3/14$

Left: -16.422 ± 212.542 $\chi^2/\text{NDF}: 32.3/30$

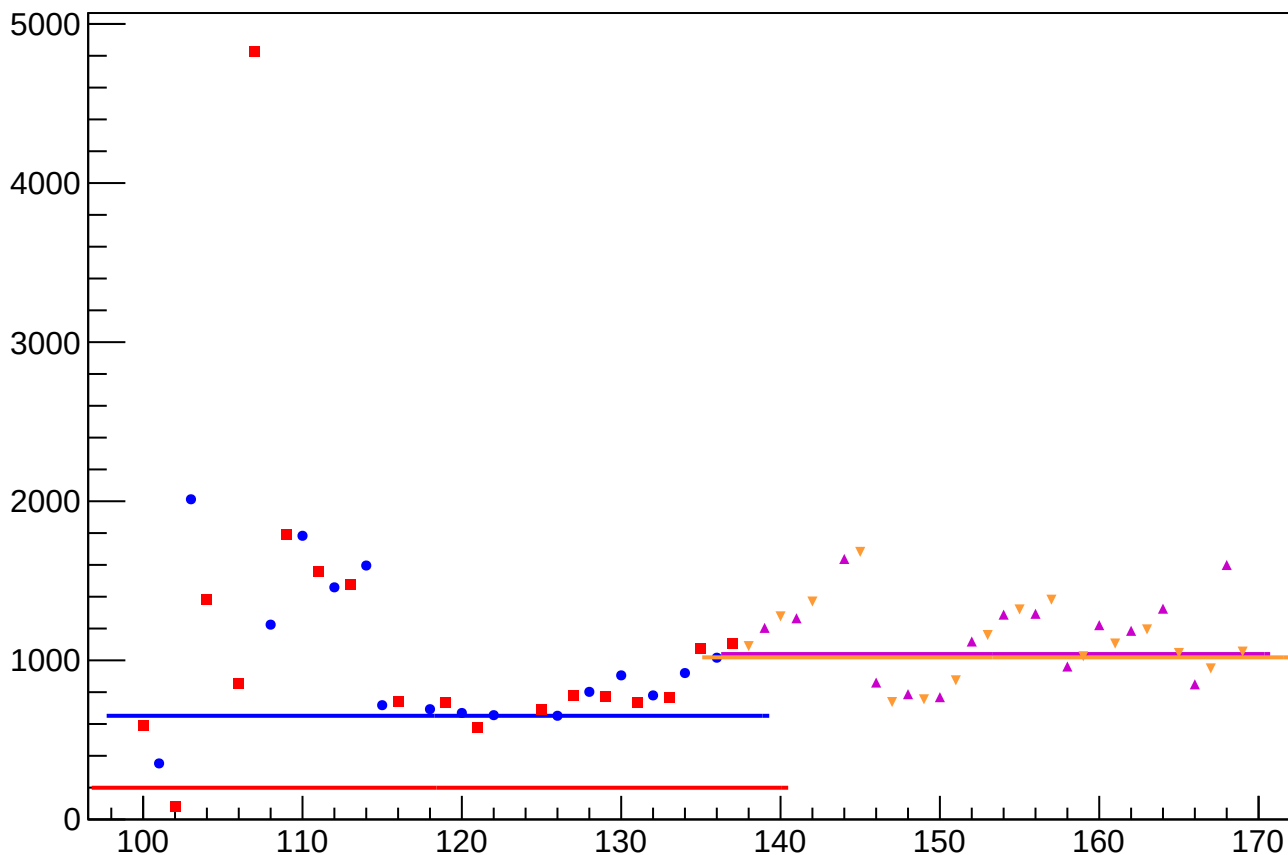
Right: -17.348 ± 123.184 $\chi^2/\text{NDF}: 38.9/33$

In: -85.397 ± 203.134 $\chi^2/\text{NDF}: 28.2/30$

Out: 8.820 ± 125.192 $\chi^2/\text{NDF}: 42.9/33$

All: -17.115 ± 106.577 $\chi^2/\text{NDF}: 71.3/64$

asym_usl_atl1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 651.521+/-0.192 χ^2/NDF : 2762681.5/15

Left Out: 1018.790+/-0.209 χ^2/NDF : 1139928.9/15

Right Out: 199.344+/-0.098 χ^2/NDF : 9284792.6/17

Left In: 1039.671+/-0.216 χ^2/NDF : 1323792.0/14

Left: 1028.920+/-0.150 χ^2/NDF : 2468542.5/30

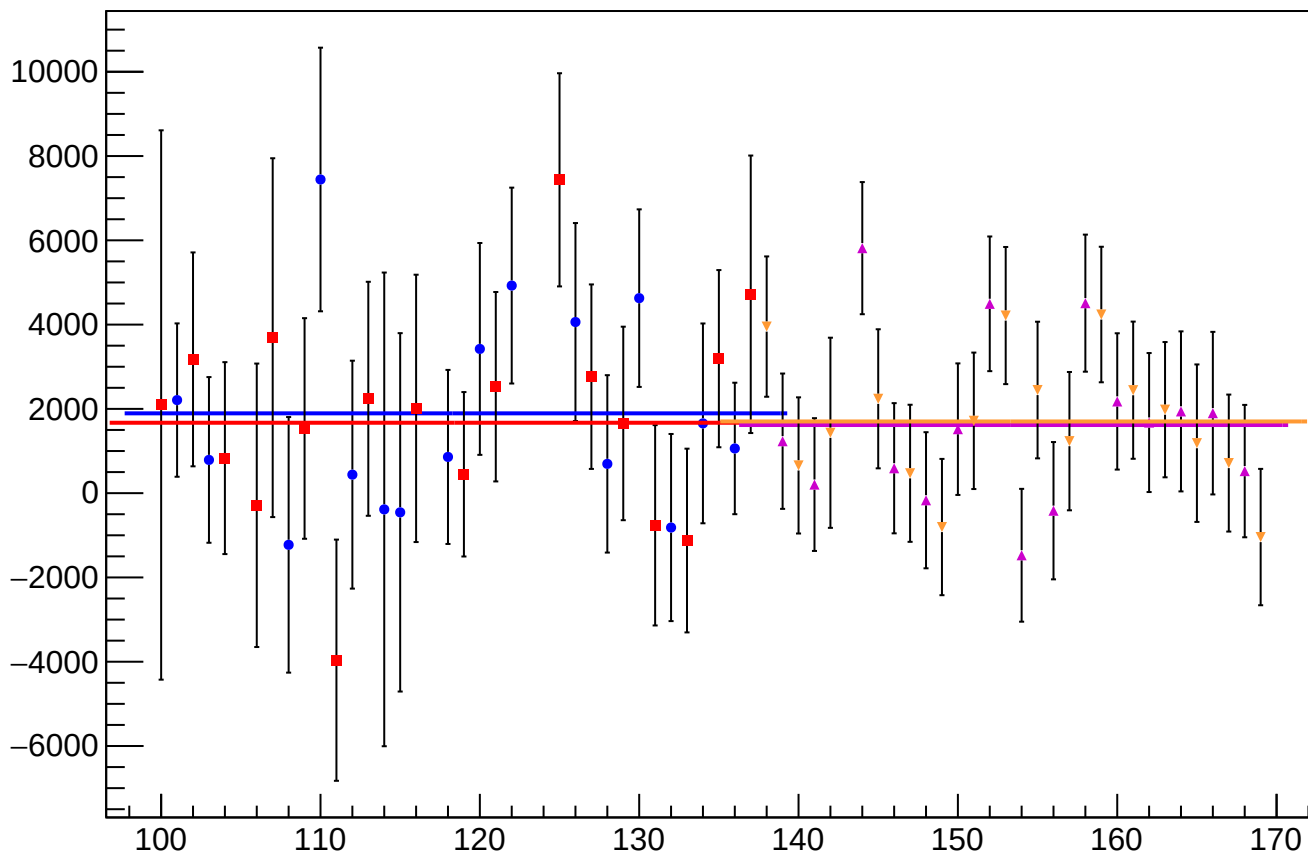
Right: 291.943+/-0.087 χ^2/NDF : 16436092.9/33

In: 823.519+/-0.144 χ^2/NDF : 5888443.1/30

Out: 345.728+/-0.089 χ^2/NDF : 22997312.5/33

All: 477.252+/-0.075 χ^2/NDF : 36904667.4/64

dit_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1894.171 $\pm$ 577.631 χ^2 /NDF: 12.3/15

Left Out: 1701.541 $\pm$ 416.024 χ^2 /NDF:14.1/15

Right Out: 1670.933 $\pm$ 604.838 χ^2 /NDF: 15.0/17

Left In: 1617.306 $\pm$ 420.299 χ^2 /NDF:22.2/14

Left: 1659.854 $\pm$ 295.673 χ^2 /NDF: 36.2/30

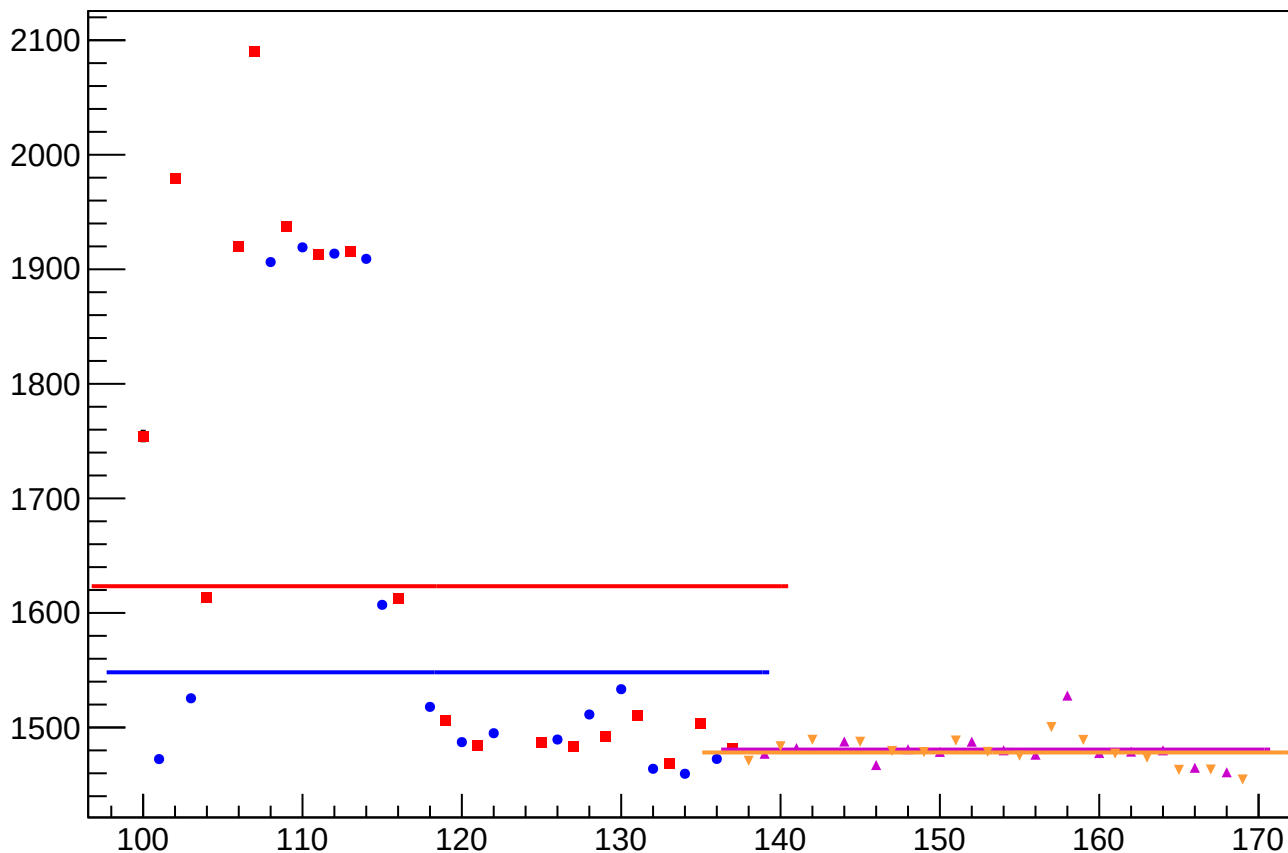
Right: 1787.686 $\pm$ 417.734 χ^2 /NDF: 27.4/33

In: 1713.147 $\pm$ 339.854 χ^2 /NDF:34.6/30

Out: 1691.711 $\pm$ 342.769 χ^2 /NDF:29.1/33

All: 1702.521 $\pm$ 241.337 χ^2 /NDF: 63.7/64

dit_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1548.174 $\pm$ 0.408 χ^2/NDF : 119905.3/15

Left Out: 1478.192 $\pm$ 0.294 χ^2/NDF : 1463.0/15

Right Out: 1623.331 $\pm$ 0.428 χ^2/NDF : 211534.0/17

Left In: 1480.705 $\pm$ 0.297 χ^2/NDF : 2403.2/14

Left: 1479.435 $\pm$ 0.209 χ^2/NDF : 3902.4/30

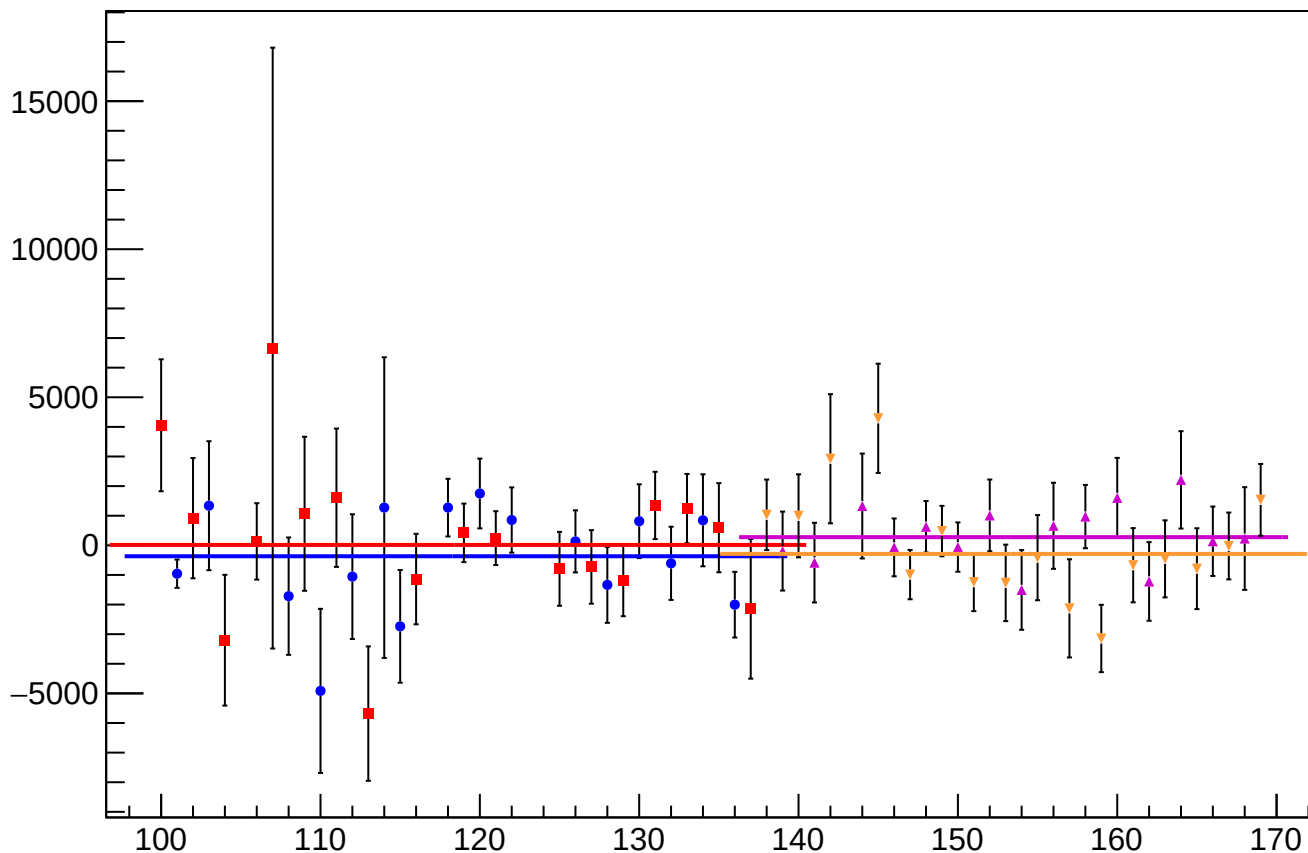
Right: 1584.024 $\pm$ 0.295 χ^2/NDF : 347589.8/33

In: 1504.060 $\pm$ 0.240 χ^2/NDF : 140149.0/30

Out: 1524.805 $\pm$ 0.242 χ^2/NDF : 291175.3/33

All: 1514.344 $\pm$ 0.171 χ^2/NDF : 435018.2/64

asym_usl_atl1_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -368.708+/-286.577 χ^2/NDF : 18.9/15

Left Out: -290.160+/-301.063 χ^2/NDF :23.6/15

Right Out: 13.729+/-341.569 χ^2/NDF : 19.1/17

Left In: 276.501+/-310.419 χ^2/NDF :7.6/14

Left: -15.498+/-216.116 χ^2/NDF : 32.9/30

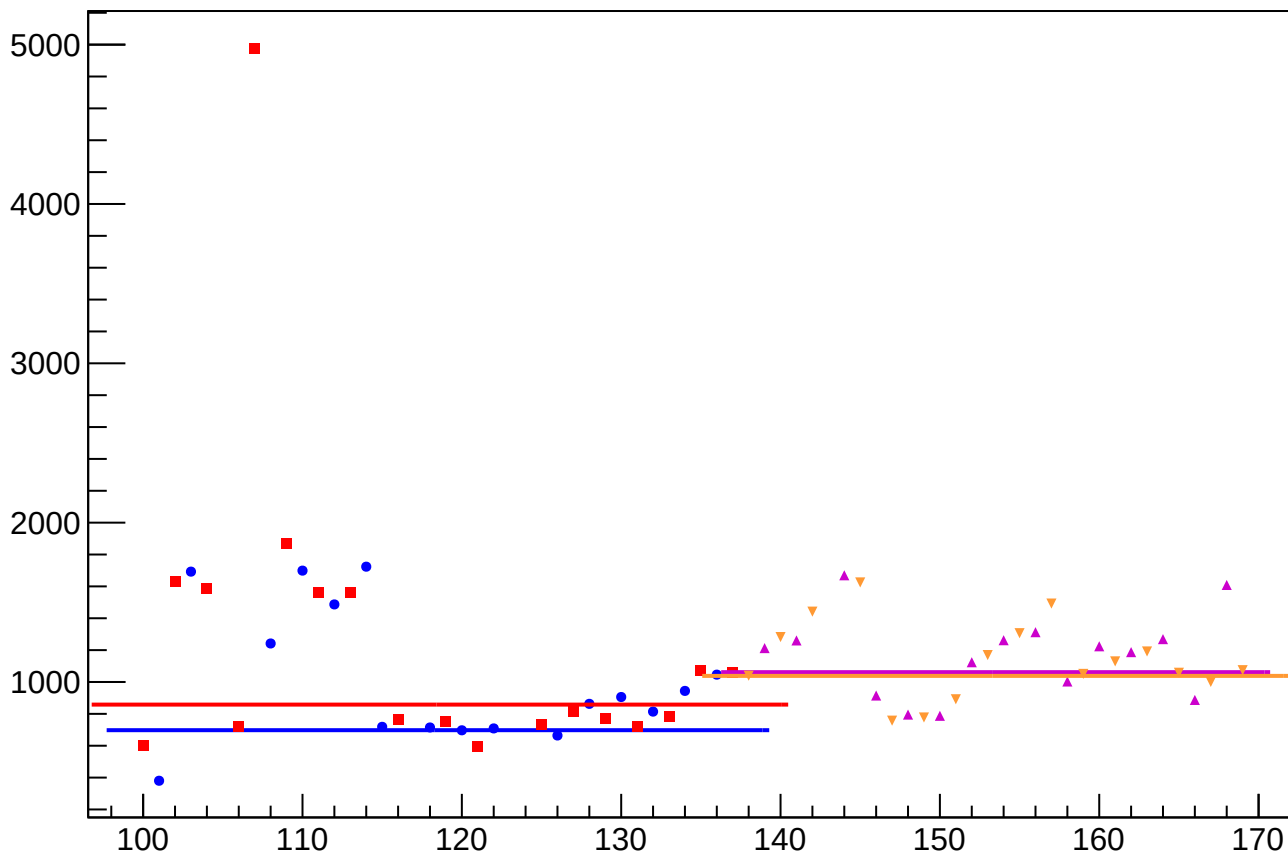
Right: -210.716+/-219.541 χ^2/NDF : 38.7/33

In: -71.831+/-210.565 χ^2/NDF :28.8/30

Out: -157.294+/-225.854 χ^2/NDF :43.1/33

All: -111.572+/-154.014 χ^2/NDF : 72.0/64

asym_usl_atl1_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 697.517 ± 0.203 $\chi^2/\text{NDF}: 2435601.0/15$

Left Out: 1038.289 ± 0.213 $\chi^2/\text{NDF}: 1074524.4/15$

Right Out: 858.095 ± 0.242 $\chi^2/\text{NDF}: 1882164.5/17$

Left In: 1061.711 ± 0.219 $\chi^2/\text{NDF}: 1191698.7/14$

Left: 1049.642 ± 0.153 $\chi^2/\text{NDF}: 2272090.4/30$

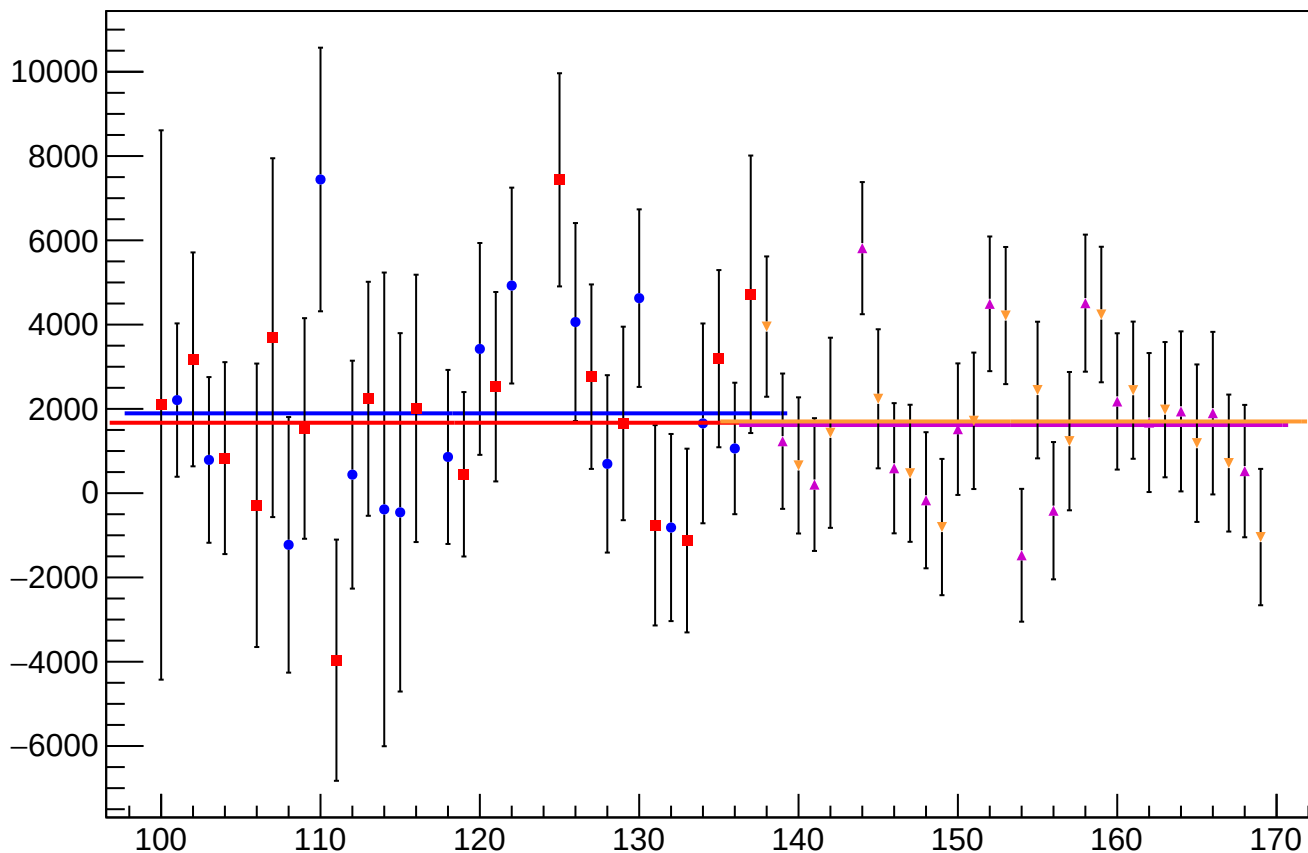
Right: 763.855 ± 0.155 $\chi^2/\text{NDF}: 4577183.5/33$

In: 865.092 ± 0.149 $\chi^2/\text{NDF}: 5113554.1/30$

Out: 959.505 ± 0.160 $\chi^2/\text{NDF}: 3269940.5/33$

All: 908.995 ± 0.109 $\chi^2/\text{NDF}: 8570469.9/64$

eigen_dit_asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 1894.169+/-577.630 χ^2/NDF : 12.3/15

Left Out: 1701.539+/-416.024 χ^2/NDF :14.1/15

Right Out: 1670.931+/-604.838 χ^2/NDF : 15.0/17

Left In: 1617.307+/-420.299 χ^2/NDF :22.2/14

Left: 1659.854+/-295.673 χ^2/NDF : 36.2/30

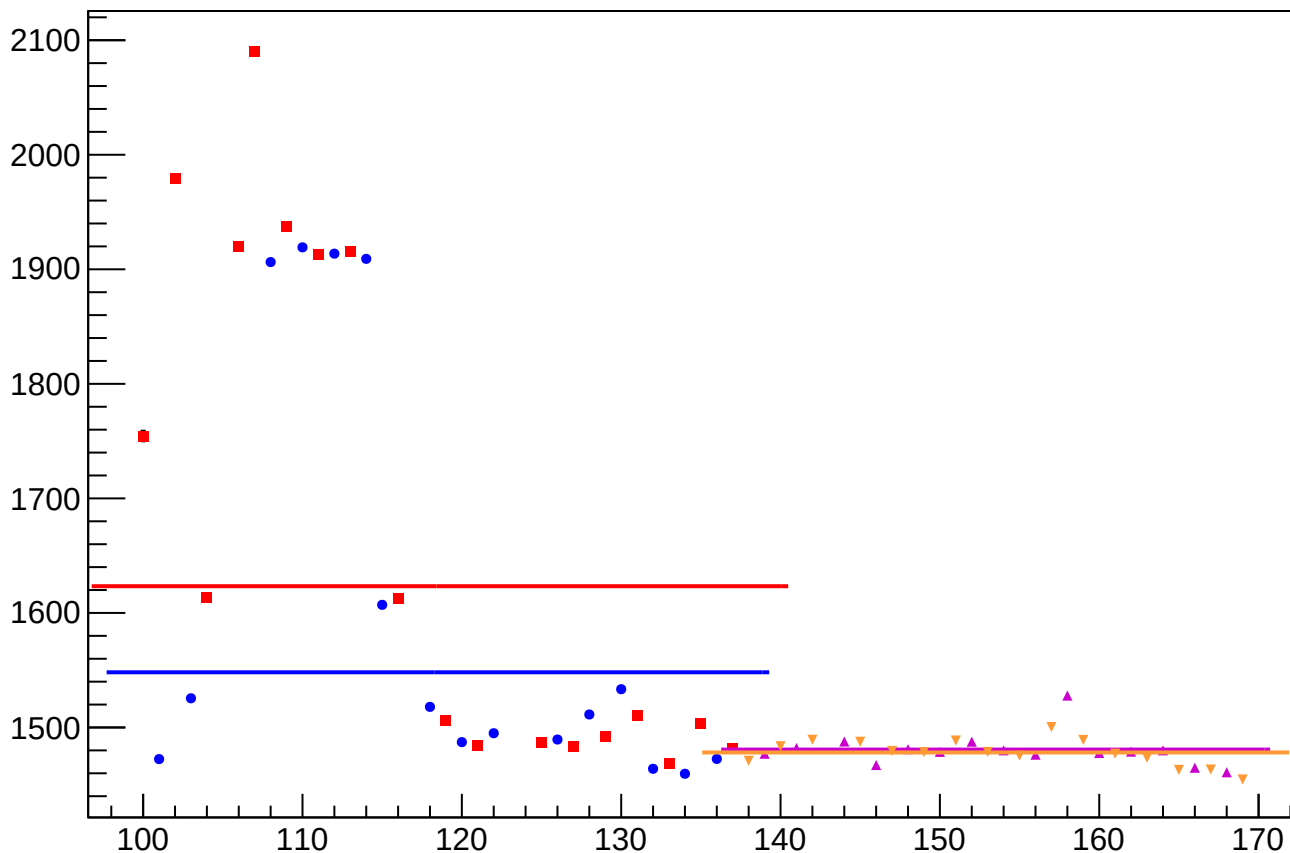
Right: 1787.684+/-417.734 χ^2/NDF : 27.4/33

In: 1713.147+/-339.854 χ^2/NDF :34.6/30

Out: 1691.709+/-342.769 χ^2/NDF :29.1/33

All: 1702.520+/-241.337 χ^2/NDF : 63.7/64

eigen_dit_asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1548.174 $\pm$ 0.408 χ^2/NDF : 119905.4/15

Left Out: 1478.192 $\pm$ 0.294 χ^2/NDF :1463.0/15

Right Out: 1623.330 $\pm$ 0.428 χ^2/NDF : 211533.9/17

Left In: 1480.705 $\pm$ 0.297 χ^2/NDF :2403.2/14

Left: 1479.435 $\pm$ 0.209 χ^2/NDF : 3902.4/30

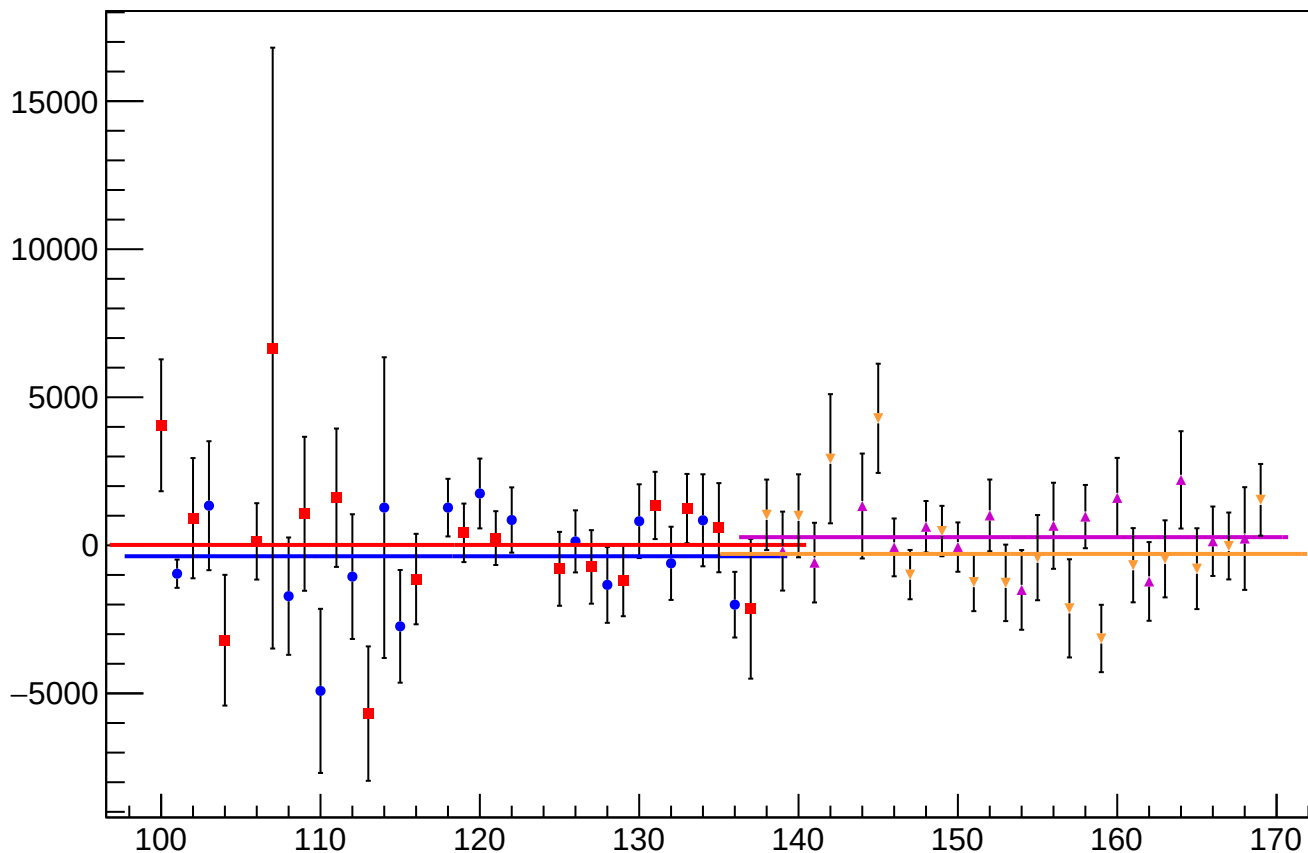
Right: 1584.024 $\pm$ 0.295 χ^2/NDF : 347589.7/33

In: 1504.060 $\pm$ 0.240 χ^2/NDF :140148.9/30

Out: 1524.805 $\pm$ 0.242 χ^2/NDF :291174.8/33

All: 1514.344 $\pm$ 0.171 χ^2/NDF : 435017.7/64

asym_usl_atl1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -368.707 $\pm$ 286.576 χ^2 /NDF: 18.9/15

Left Out: -290.163 $\pm$ 301.064 χ^2 /NDF:23.6/15

Right Out: 13.730 $\pm$ 341.568 χ^2 /NDF: 19.1/17

Left In: 276.501 $\pm$ 310.419 χ^2 /NDF:7.6/14

Left: -15.499 $\pm$ 216.116 χ^2 /NDF: 32.9/30

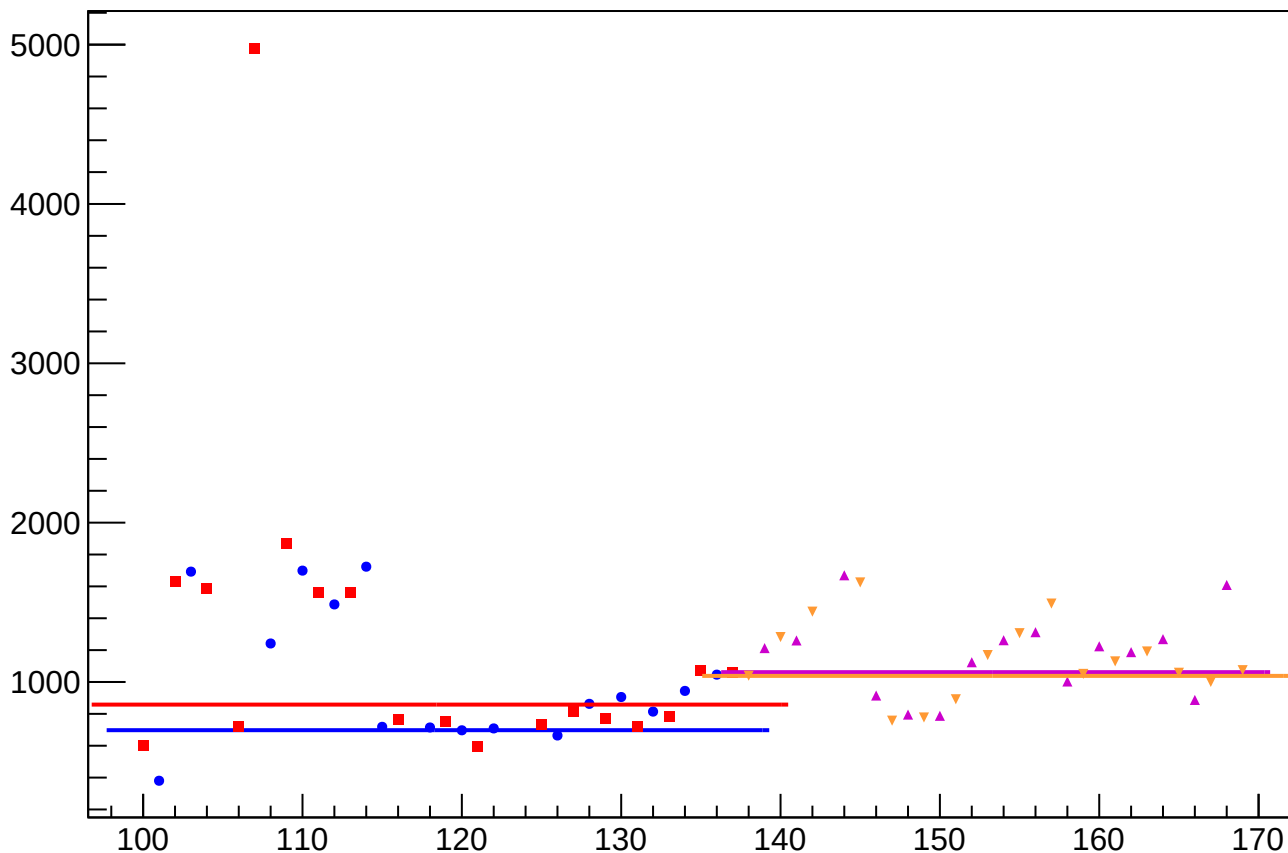
Right: -210.715 $\pm$ 219.541 χ^2 /NDF: 38.7/33

In: -71.830 $\pm$ 210.565 χ^2 /NDF:28.8/30

Out: -157.295 $\pm$ 225.854 χ^2 /NDF:43.1/33

All: -111.572 $\pm$ 154.014 χ^2 /NDF: 72.0/64

asym_usl_atl1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 697.517 ± 0.203 $\chi^2/\text{NDF}: 2435593.9/15$

Left Out: 1038.291 ± 0.213 $\chi^2/\text{NDF}: 1074522.0/15$

Right Out: 858.094 ± 0.242 $\chi^2/\text{NDF}: 1882174.1/17$

Left In: 1061.713 ± 0.219 $\chi^2/\text{NDF}: 1191694.6/14$

Left: 1049.644 ± 0.153 $\chi^2/\text{NDF}: 2272084.1/30$

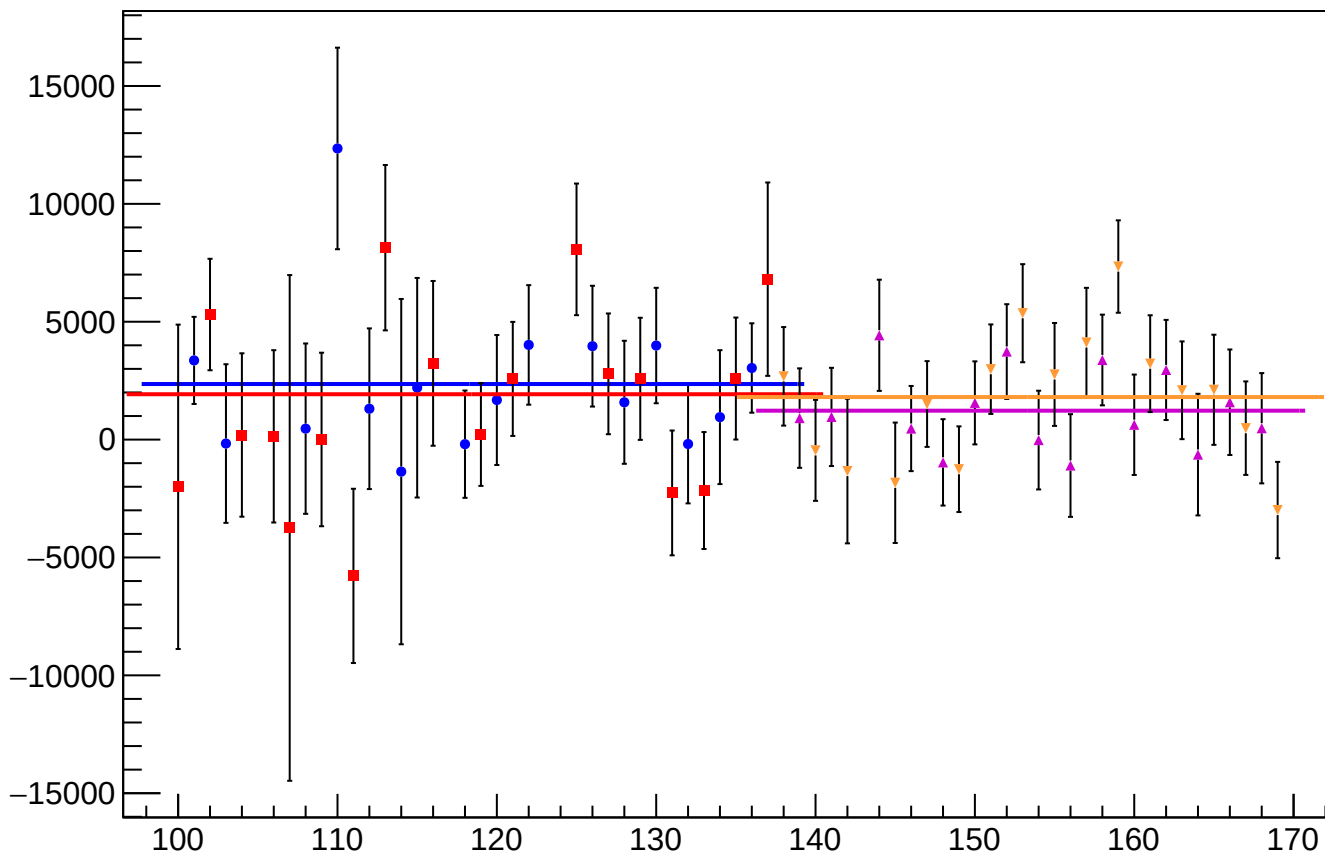
Right: 763.854 ± 0.155 $\chi^2/\text{NDF}: 4577181.2/33$

In: 865.093 ± 0.149 $\chi^2/\text{NDF}: 5113554.4/30$

Out: 959.505 ± 0.160 $\chi^2/\text{NDF}: 3269959.2/33$

All: 908.996 ± 0.109 $\chi^2/\text{NDF}: 8570486.4/64$

asym_usl_atl1_avg_mean vs Slug, Sign Corrected



Right In: 2356.998 $\pm$ 678.944 χ^2/NDF : 11.0/15

Left Out: 1804.952 $\pm$ 525.304 χ^2/NDF : 26.2/15

Right Out: 1924.824 $\pm$ 706.809 χ^2/NDF : 23.4/17

Left In: 1226.512 $\pm$ 535.038 χ^2/NDF : 9.2/14

Left: 1521.042 $\pm$ 374.840 χ^2/NDF : 36.0/30

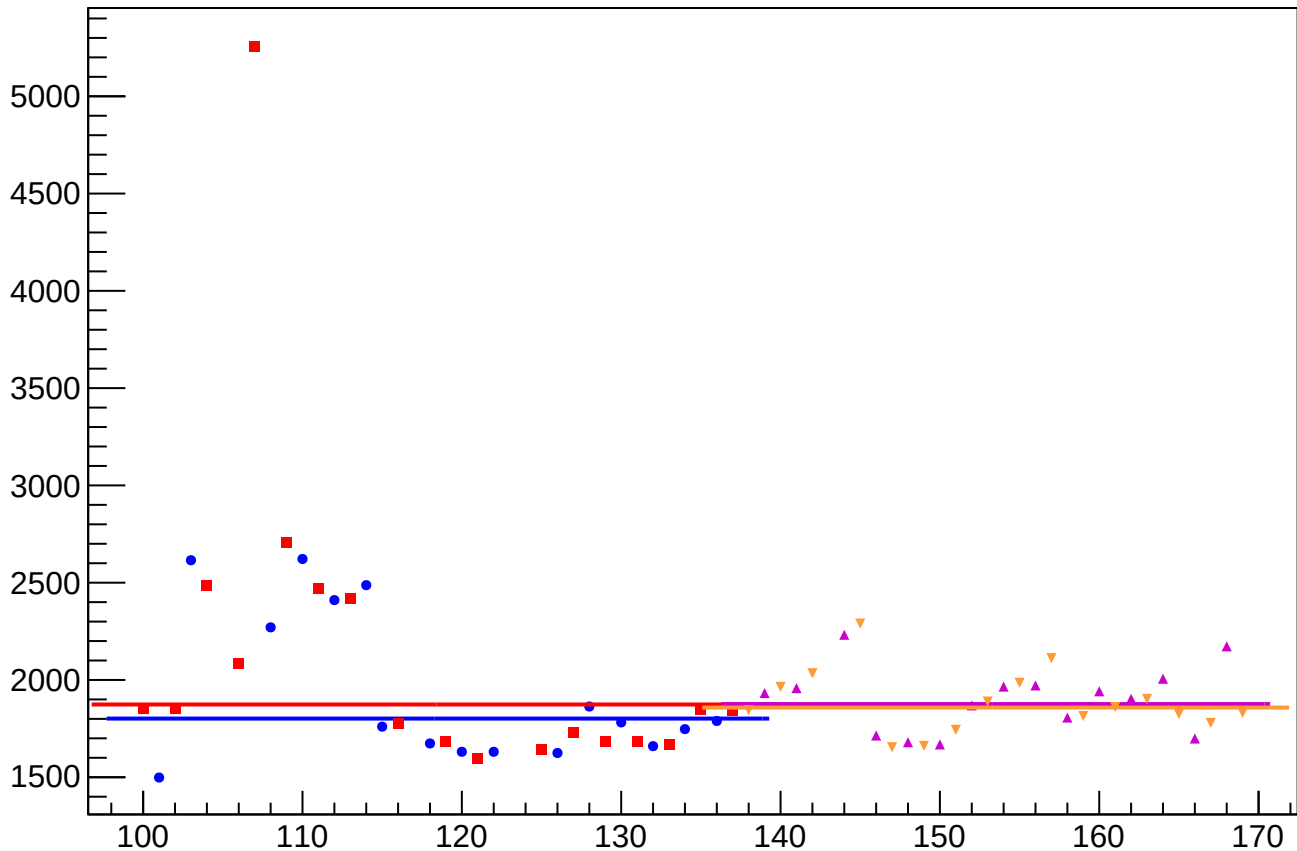
Right: 2149.598 $\pm$ 489.640 χ^2/NDF : 34.6/33

In: 1659.604 $\pm$ 420.234 χ^2/NDF : 21.9/30

Out: 1847.605 $\pm$ 421.614 χ^2/NDF : 49.6/33

All: 1753.296 $\pm$ 297.637 χ^2/NDF : 71.7/64

asym_usl_atl1_avg_rms vs Slug, Sign Corrected



Right In: 1801.529+/-0.480 χ^2/NDF : 400702.5/15

Left Out: 1858.145+/-0.371 χ^2/NDF : 161775.9/15

Right Out: 1873.976+/-0.500 χ^2/NDF : 569909.0/17

Left In: 1876.158+/-0.378 χ^2/NDF : 179120.4/14

Left: 1866.986+/-0.265 χ^2/NDF : 342050.6/30

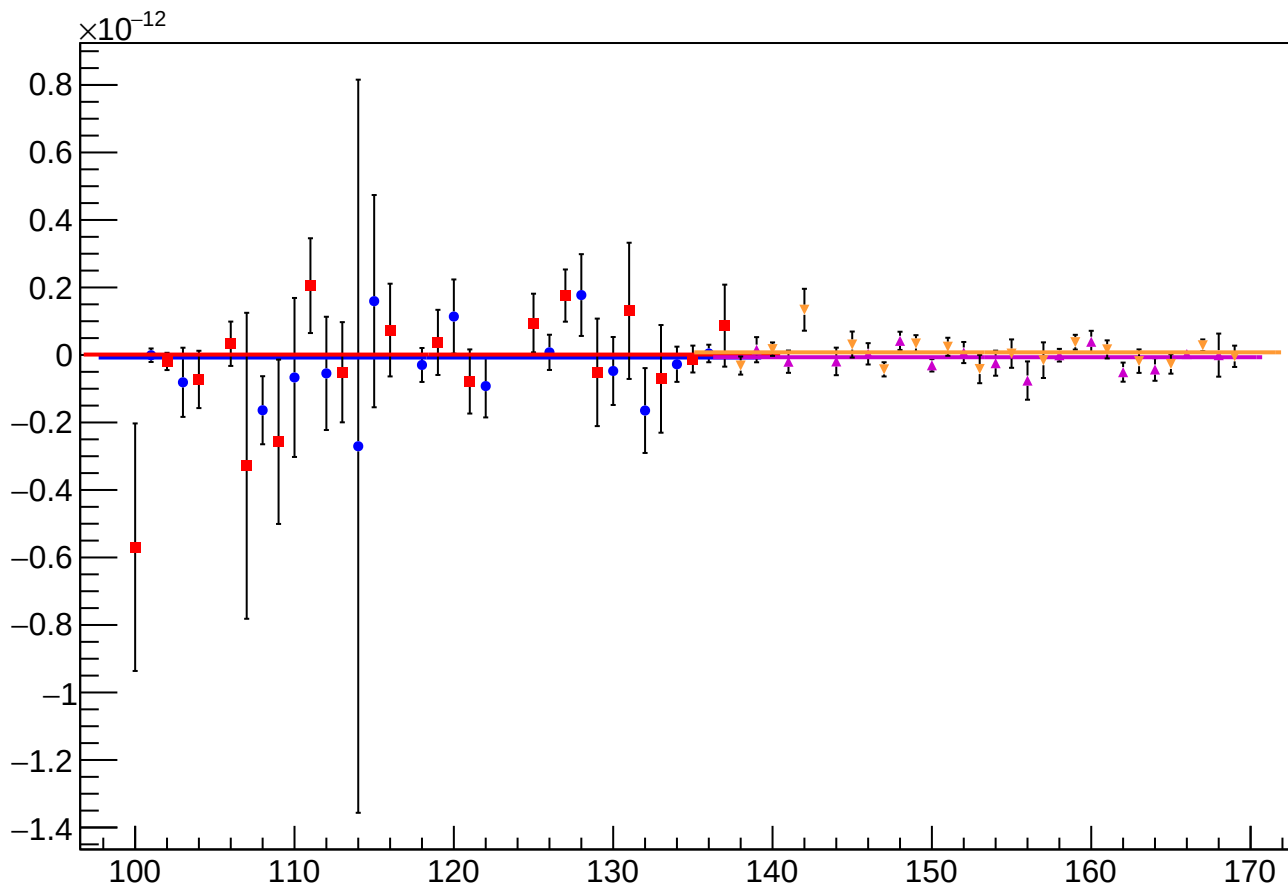
Right: 1836.296+/-0.346 χ^2/NDF : 981540.0/33

In: 1847.568+/-0.297 χ^2/NDF : 594730.2/30

Out: 1863.778+/-0.298 χ^2/NDF : 732331.2/33

All: 1855.646+/-0.210 χ^2/NDF : 1328544.6/64

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 10.2/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 21.2/15

Right Out: 0.000 ± 0.000 χ^2/NDF : 16.7/17

Left In: -0.000 ± 0.000 χ^2/NDF : 13.7/14

Left: 0.000 ± 0.000 χ^2/NDF : 37.1/30

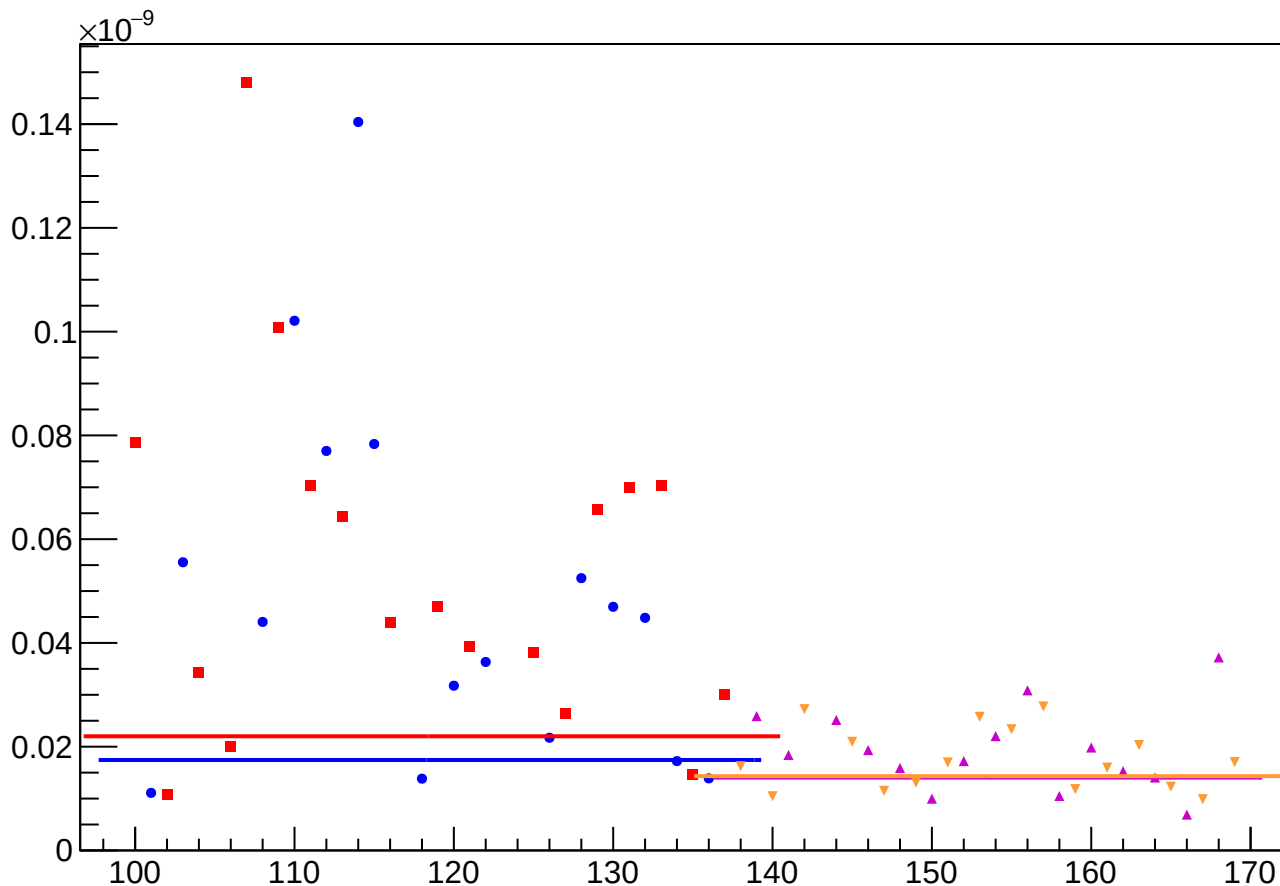
Right: -0.000 ± 0.000 χ^2/NDF : 27.1/33

In: -0.000 ± 0.000 χ^2/NDF : 23.9/30

Out: 0.000 ± 0.000 χ^2/NDF : 38.0/33

All: -0.000 ± 0.000 χ^2/NDF : 64.4/64

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1840069.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 908586.1/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2098640.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 1698675.2/14

Left: 0.000+/-0.000 χ^2/NDF : 2608967.4/30

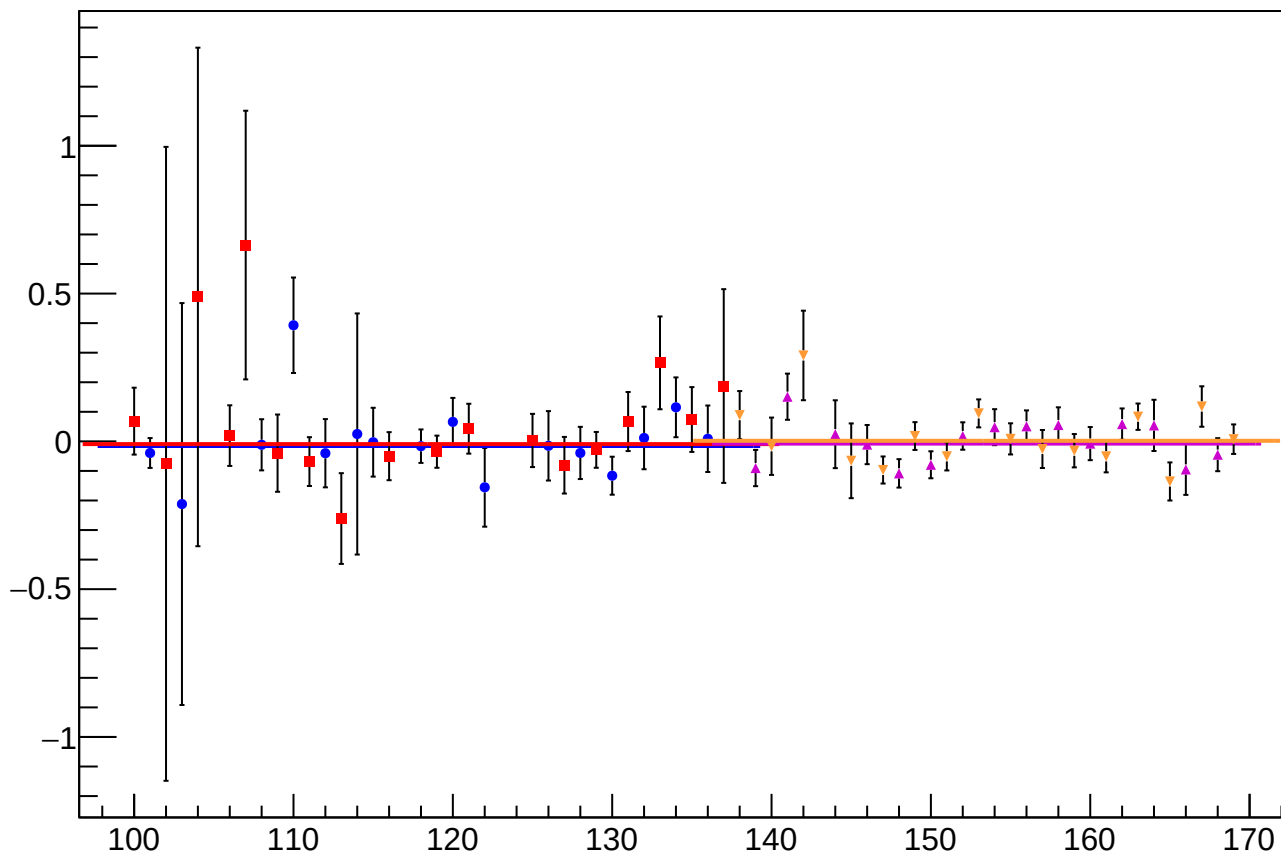
Right: 0.000+/-0.000 χ^2/NDF : 4028264.0/33

In: 0.000+/-0.000 χ^2/NDF : 3642825.1/30

Out: 0.000+/-0.000 χ^2/NDF : 3353466.3/33

All: 0.000+/-0.000 χ^2/NDF : 7004951.9/64

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.023 $\chi^2/\text{NDF}: 13.2/15$

Left Out: 0.002 ± 0.014 $\chi^2/\text{NDF}: 27.2/15$

Right Out: -0.009 ± 0.024 $\chi^2/\text{NDF}: 12.5/17$

Left In: -0.007 ± 0.015 $\chi^2/\text{NDF}: 19.8/14$

Left: -0.003 ± 0.011 $\chi^2/\text{NDF}: 47.2/30$

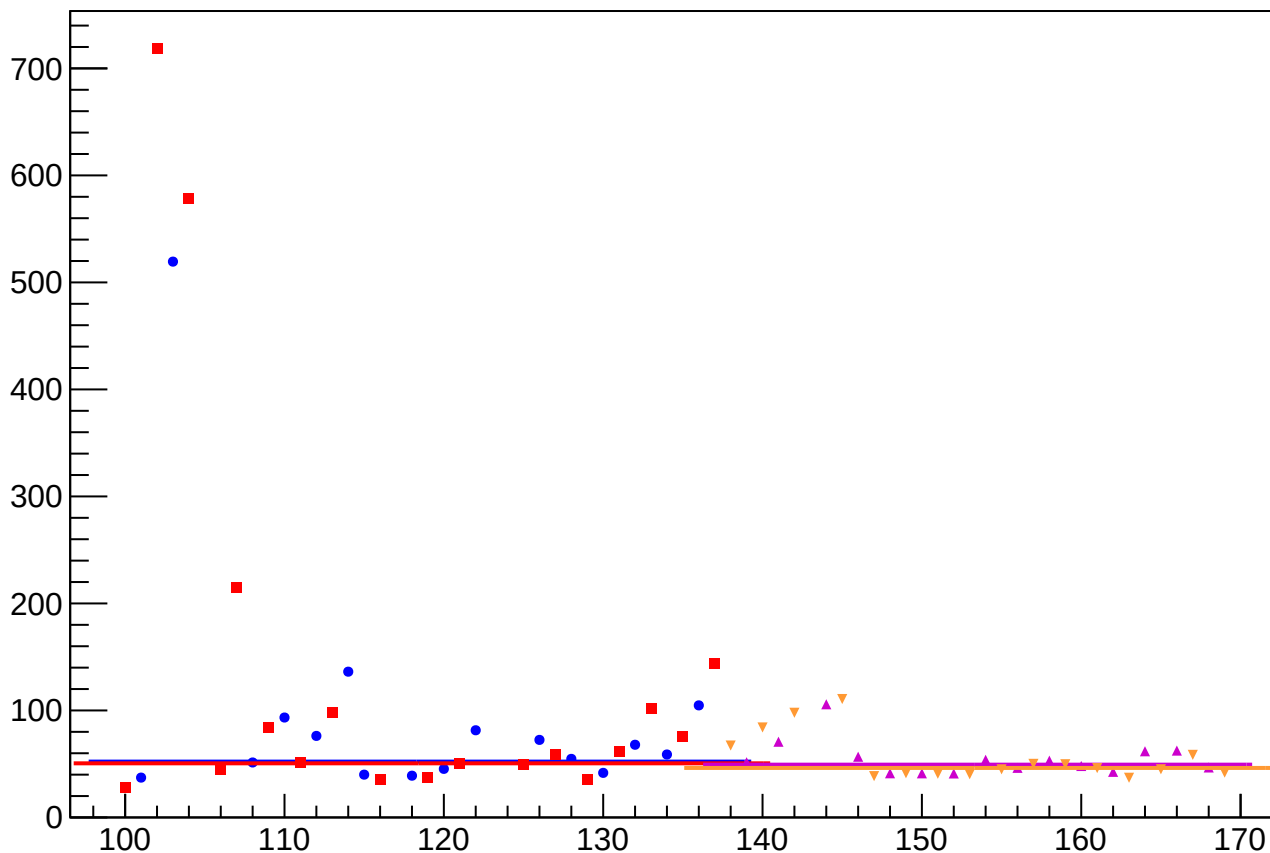
Right: -0.013 ± 0.016 $\chi^2/\text{NDF}: 25.7/33$

In: -0.010 ± 0.013 $\chi^2/\text{NDF}: 33.1/30$

Out: -0.001 ± 0.012 $\chi^2/\text{NDF}: 39.8/33$

All: -0.005 ± 0.009 $\chi^2/\text{NDF}: 73.2/64$

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.191 $\pm$ 0.016 χ^2 /NDF: 2266928.1/15

Left Out: 46.266 $\pm$ 0.010 χ^2 /NDF: 1502251.0/15

Right Out: 50.582 $\pm$ 0.017 χ^2 /NDF: 3051379.6/17

Left In: 49.336 $\pm$ 0.011 χ^2 /NDF: 994760.7/14

Left: 47.712 $\pm$ 0.007 χ^2 /NDF: 2539560.4/30

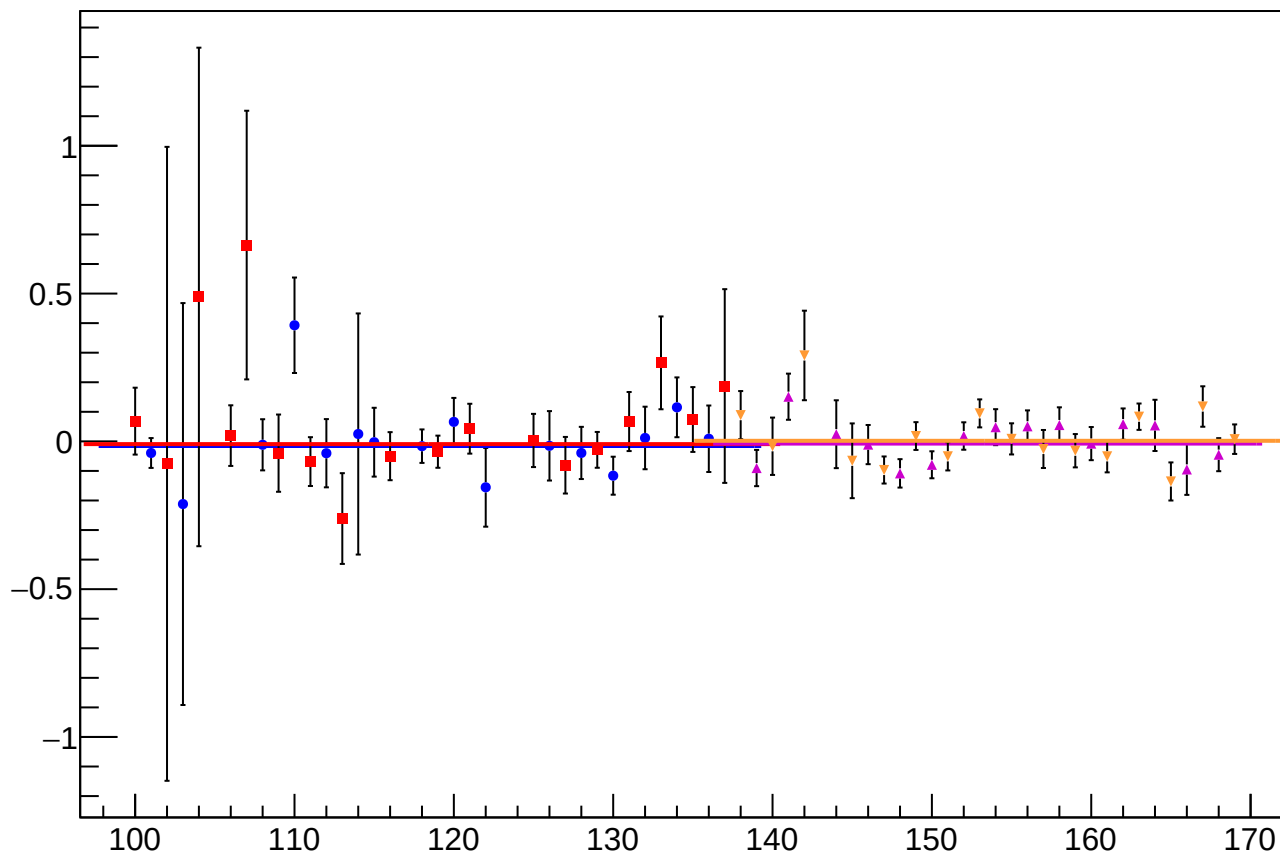
Right: 51.419 $\pm$ 0.012 χ^2 /NDF: 5323147.3/33

In: 50.232 $\pm$ 0.009 χ^2 /NDF: 3283503.3/30

Out: 47.443 $\pm$ 0.009 χ^2 /NDF: 4602295.7/33

All: 48.797 $\pm$ 0.006 χ^2 /NDF: 7935567.3/64

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.023 χ^2/NDF : 13.2/15

Left Out: 0.002 ± 0.014 χ^2/NDF : 27.2/15

Right Out: -0.009 ± 0.024 χ^2/NDF : 12.5/17

Left In: -0.007 ± 0.015 χ^2/NDF : 19.8/14

Left: -0.003 ± 0.011 χ^2/NDF : 47.2/30

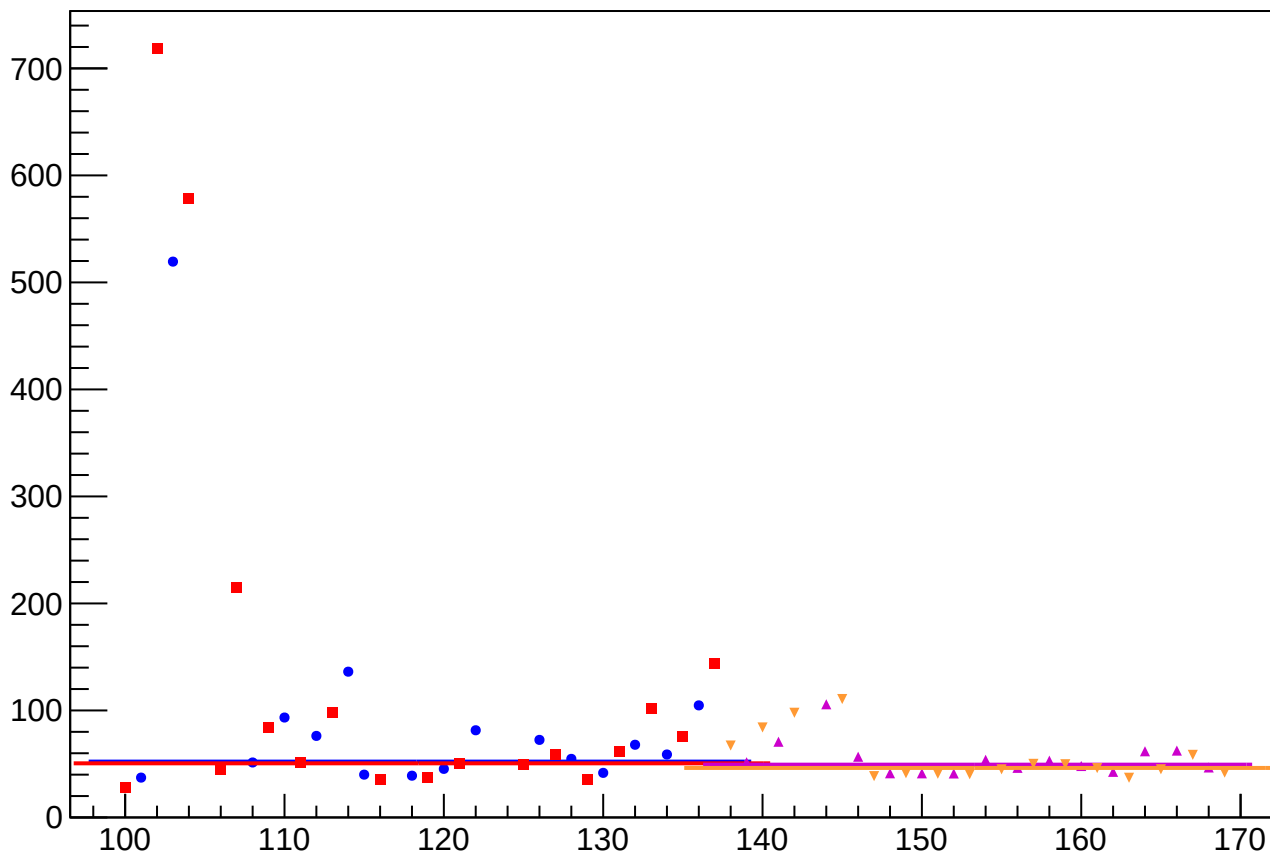
Right: -0.013 ± 0.016 χ^2/NDF : 25.7/33

In: -0.010 ± 0.013 χ^2/NDF : 33.1/30

Out: -0.001 ± 0.012 χ^2/NDF : 39.8/33

All: -0.005 ± 0.009 χ^2/NDF : 73.2/64

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.191+/-0.016 χ^2/NDF : 2266928.1/15

Left Out: 46.266+/-0.010 χ^2/NDF : 1502251.0/15

Right Out: 50.582+/-0.017 χ^2/NDF : 3051379.6/17

Left In: 49.336+/-0.011 χ^2/NDF : 994760.7/14

Left: 47.712+/-0.007 χ^2/NDF : 2539560.4/30

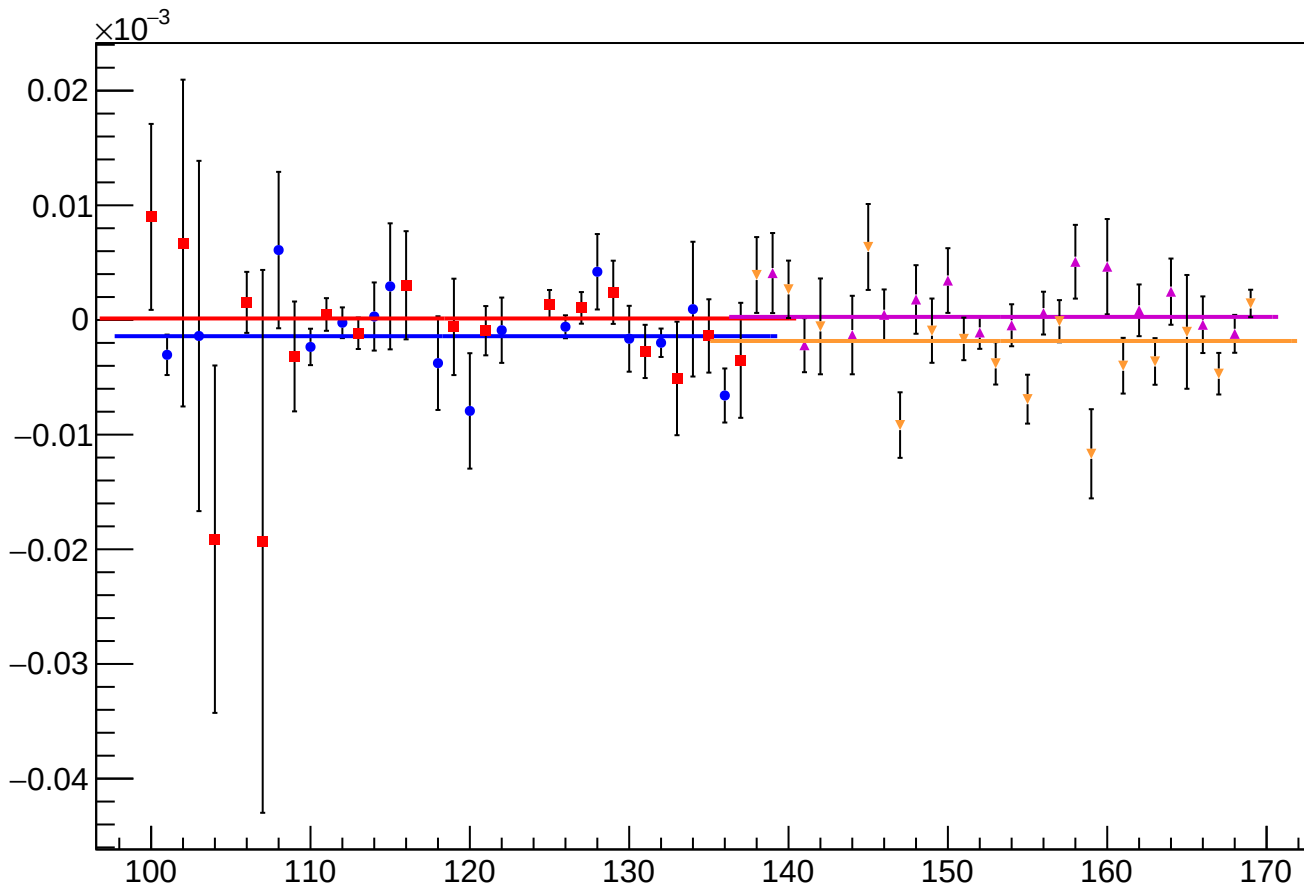
Right: 51.419+/-0.012 χ^2/NDF : 5323147.3/33

In: 50.232+/-0.009 χ^2/NDF : 3283503.3/30

Out: 47.443+/-0.009 χ^2/NDF : 4602295.7/33

All: 48.797+/-0.006 χ^2/NDF : 7935567.3/64

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 15.0/15

Left Out: -0.000+/-0.000 χ^2 /NDF:43.5/15

Right Out: 0.000+/-0.000 χ^2 /NDF: 11.6/17

Left In: 0.000+/-0.000 χ^2 /NDF:10.0/14

Left: -0.000+/-0.000 χ^2 /NDF: 60.2/30

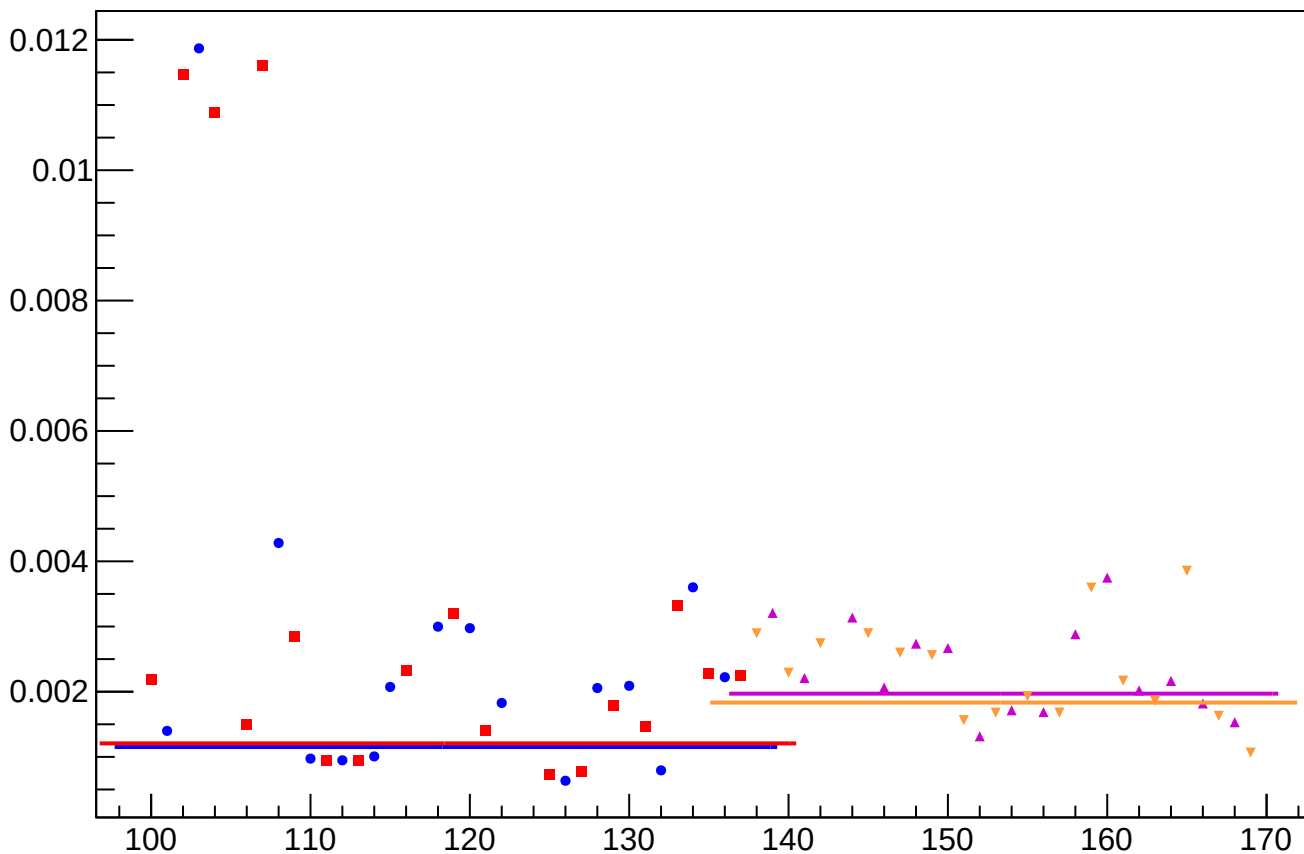
Right: -0.000+/-0.000 χ^2 /NDF: 30.7/33

In: -0.000+/-0.000 χ^2 /NDF:29.5/30

Out: -0.000+/-0.000 χ^2 /NDF:61.3/33

All: -0.000+/-0.000 χ^2 /NDF: 90.9/64

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 4187928.7/15

Left Out: 0.002+/-0.000 χ^2/NDF :2514238.1/15

Right Out: 0.001+/-0.000 χ^2/NDF : 4521920.0/17

Left In: 0.002+/-0.000 χ^2/NDF :1952572.6/14

Left: 0.002+/-0.000 χ^2/NDF : 4523922.5/30

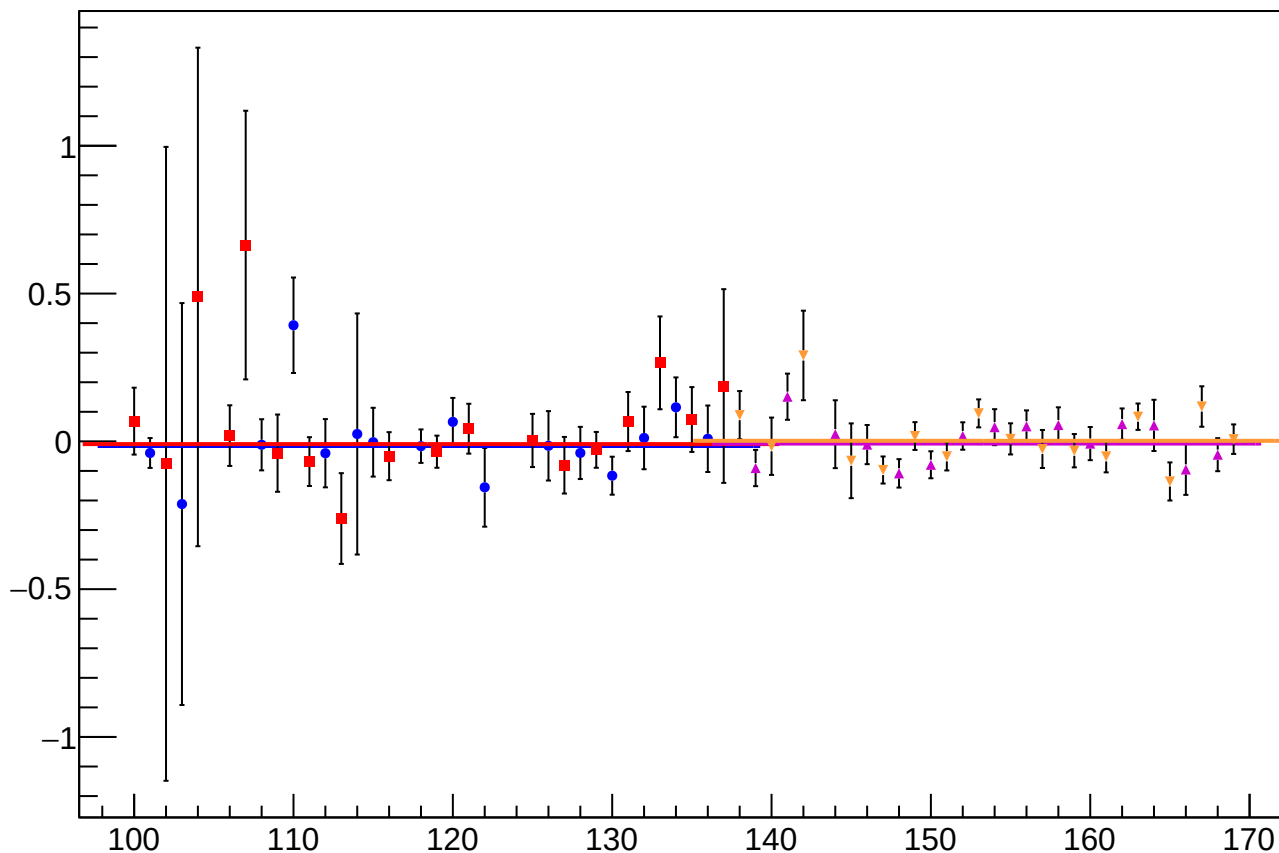
Right: 0.001+/-0.000 χ^2/NDF : 8720631.4/33

In: 0.002+/-0.000 χ^2/NDF :8315880.3/30

Out: 0.002+/-0.000 χ^2/NDF :8304619.3/33

All: 0.002+/-0.000 χ^2/NDF : 16621954.6/64

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.023 χ^2/NDF : 13.2/15

Left Out: 0.002 ± 0.014 χ^2/NDF : 27.2/15

Right Out: -0.009 ± 0.024 χ^2/NDF : 12.5/17

Left In: -0.007 ± 0.015 χ^2/NDF : 19.8/14

Left: -0.003 ± 0.011 χ^2/NDF : 47.2/30

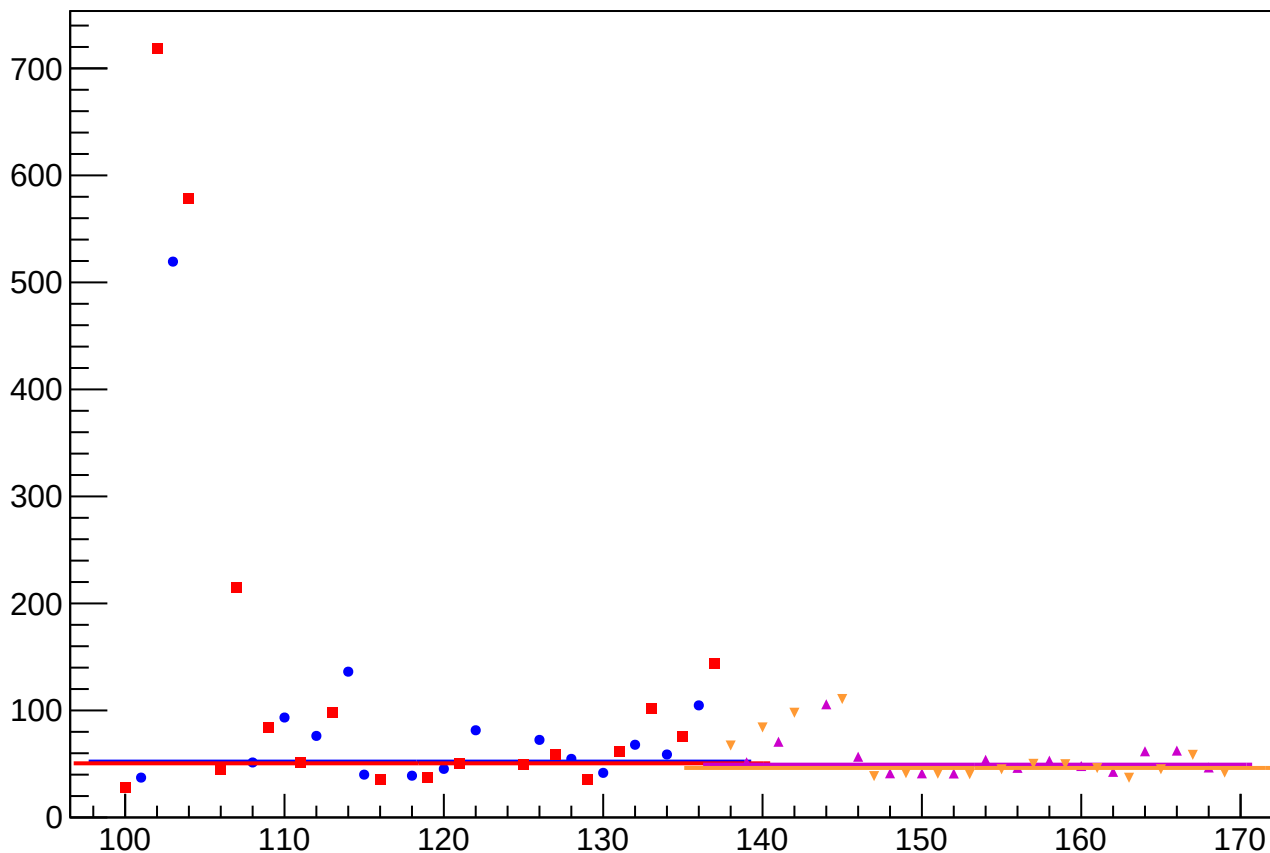
Right: -0.013 ± 0.016 χ^2/NDF : 25.7/33

In: -0.010 ± 0.013 χ^2/NDF : 33.1/30

Out: -0.001 ± 0.012 χ^2/NDF : 39.8/33

All: -0.005 ± 0.009 χ^2/NDF : 73.2/64

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.191+/-0.016 χ^2/NDF : 2266922.0/15

Left Out: 46.267+/-0.010 χ^2/NDF : 1502236.1/15

Right Out: 50.582+/-0.017 χ^2/NDF : 3051364.2/17

Left In: 49.336+/-0.011 χ^2/NDF : 994766.9/14

Left: 47.712+/-0.007 χ^2/NDF : 2539546.3/30

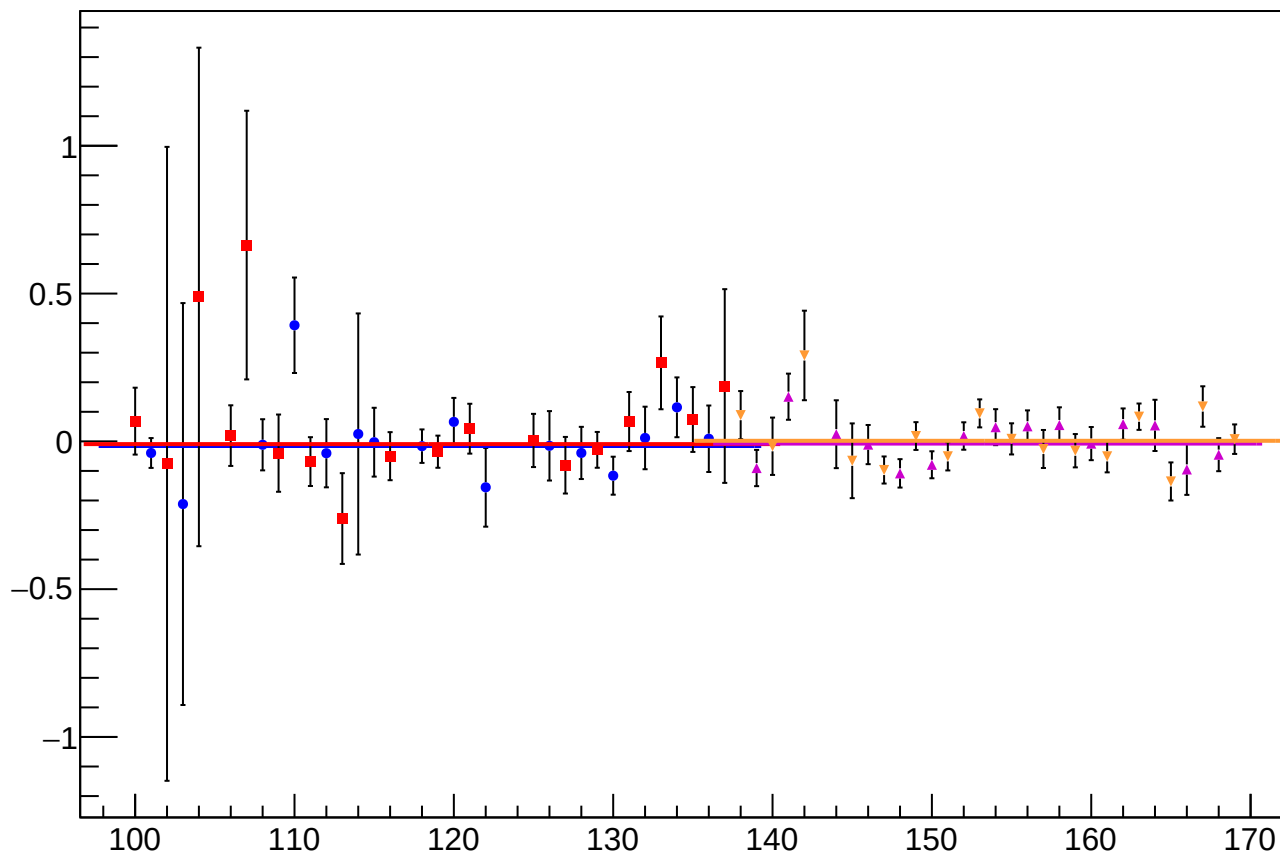
Right: 51.419+/-0.012 χ^2/NDF : 5323126.6/33

In: 50.232+/-0.009 χ^2/NDF : 3283501.3/30

Out: 47.443+/-0.009 χ^2/NDF : 4602255.5/33

All: 48.797+/-0.006 χ^2/NDF : 7935520.8/64

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.023 χ^2/NDF : 13.2/15

Left Out: 0.002 ± 0.014 χ^2/NDF : 27.2/15

Right Out: -0.009 ± 0.024 χ^2/NDF : 12.5/17

Left In: -0.007 ± 0.015 χ^2/NDF : 19.8/14

Left: -0.003 ± 0.011 χ^2/NDF : 47.2/30

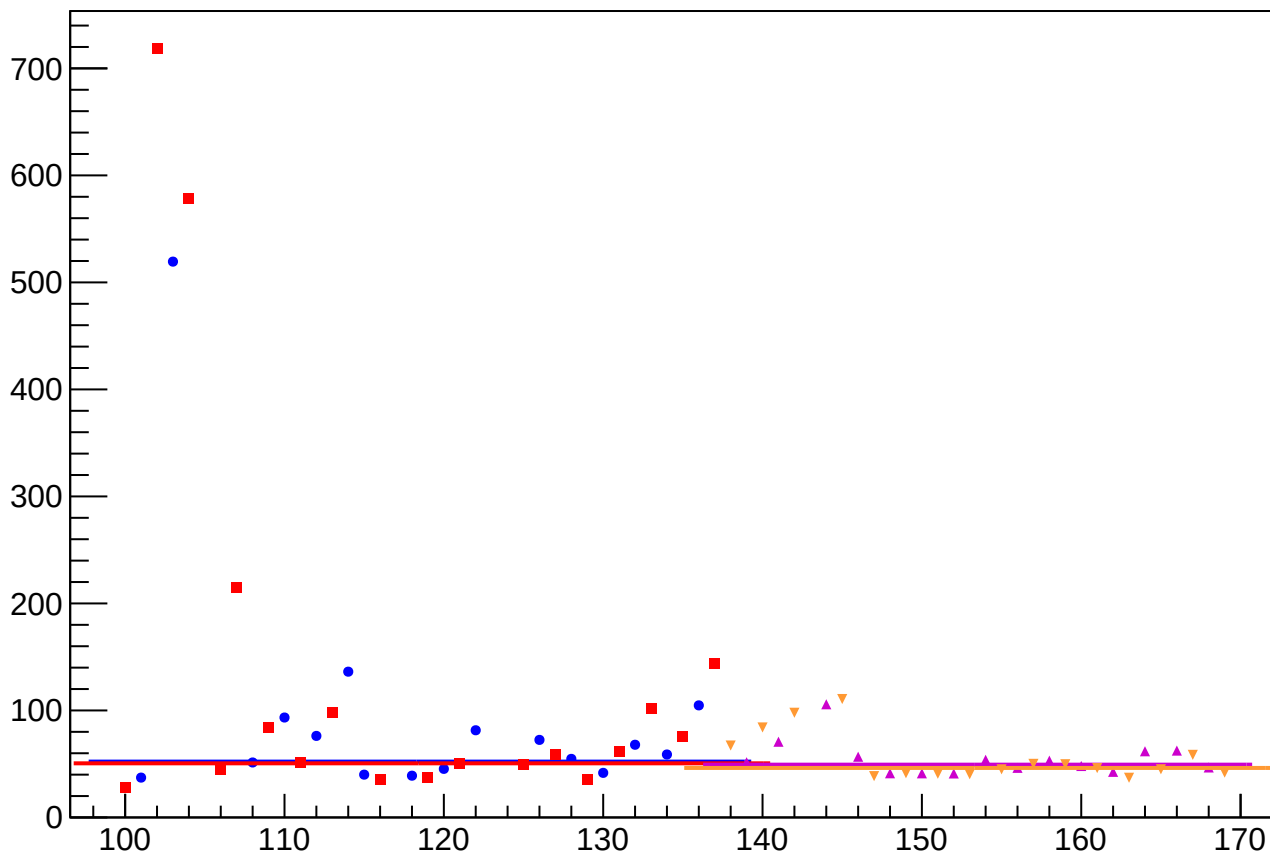
Right: -0.013 ± 0.016 χ^2/NDF : 25.7/33

In: -0.010 ± 0.013 χ^2/NDF : 33.1/30

Out: -0.001 ± 0.012 χ^2/NDF : 39.8/33

All: -0.005 ± 0.009 χ^2/NDF : 73.2/64

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.191 $\pm$ 0.016 χ^2 /NDF: 2266922.0/15

Left Out: 46.267 $\pm$ 0.010 χ^2 /NDF: 1502236.1/15

Right Out: 50.582 $\pm$ 0.017 χ^2 /NDF: 3051364.2/17

Left In: 49.336 $\pm$ 0.011 χ^2 /NDF: 994766.9/14

Left: 47.712 $\pm$ 0.007 χ^2 /NDF: 2539546.3/30

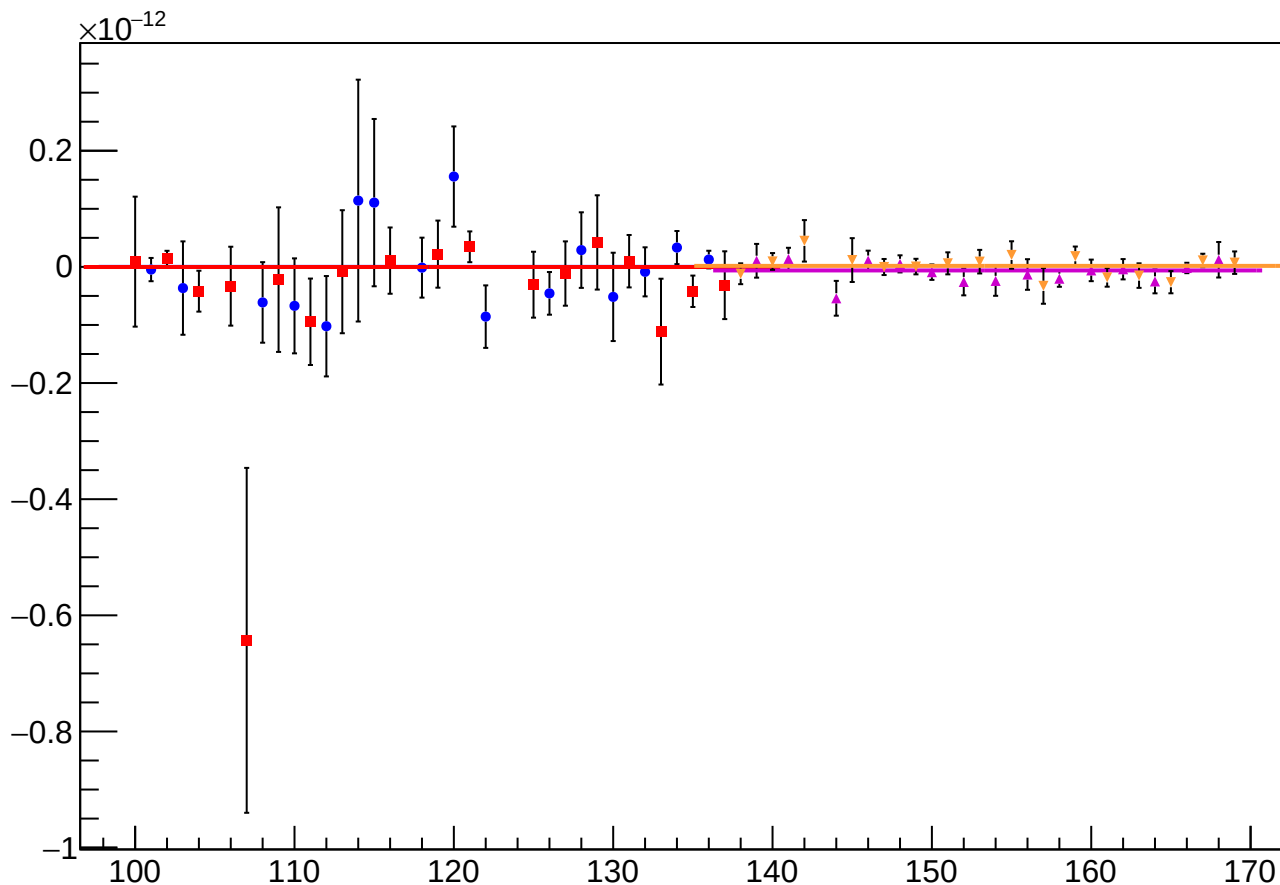
Right: 51.419 $\pm$ 0.012 χ^2 /NDF: 5323126.6/33

In: 50.232 $\pm$ 0.009 χ^2 /NDF: 3283501.3/30

Out: 47.443 $\pm$ 0.009 χ^2 /NDF: 4602255.5/33

All: 48.797 $\pm$ 0.006 χ^2 /NDF: 7935520.8/64

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 14.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :10.5/15

Right Out: -0.000+/-0.000 χ^2/NDF : 16.0/17

Left In: -0.000+/-0.000 χ^2/NDF :9.3/14

Left: -0.000+/-0.000 χ^2/NDF : 21.4/30

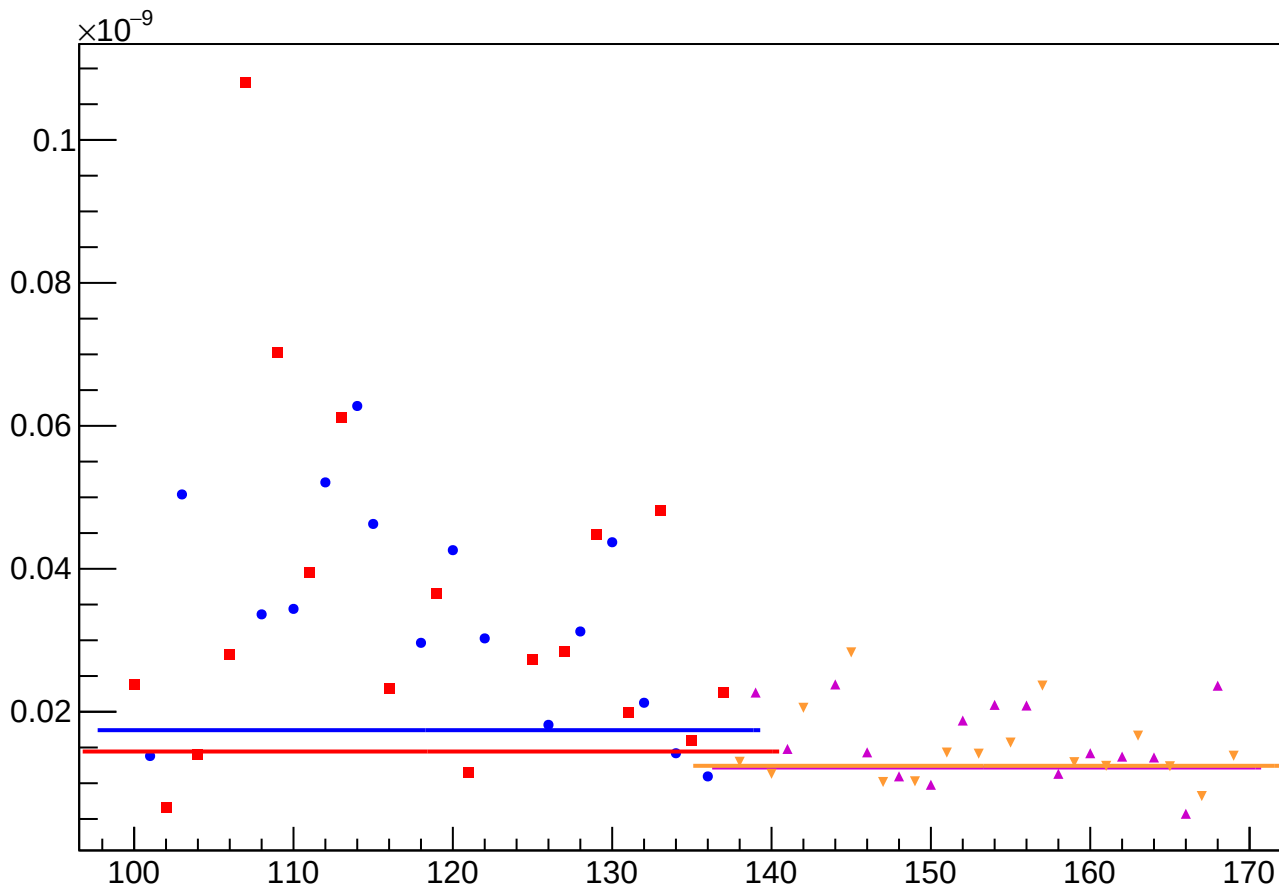
Right: -0.000+/-0.000 χ^2/NDF : 30.1/33

In: -0.000+/-0.000 χ^2/NDF :23.7/30

Out: 0.000+/-0.000 χ^2/NDF :26.6/33

All: -0.000+/-0.000 χ^2/NDF : 51.6/64

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2224531.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :1273420.7/15

Right Out: 0.000+/-0.000 χ^2/NDF : 3261103.3/17

Left In: 0.000+/-0.000 χ^2/NDF :2696626.3/14

Left: 0.000+/-0.000 χ^2/NDF : 3972953.7/30

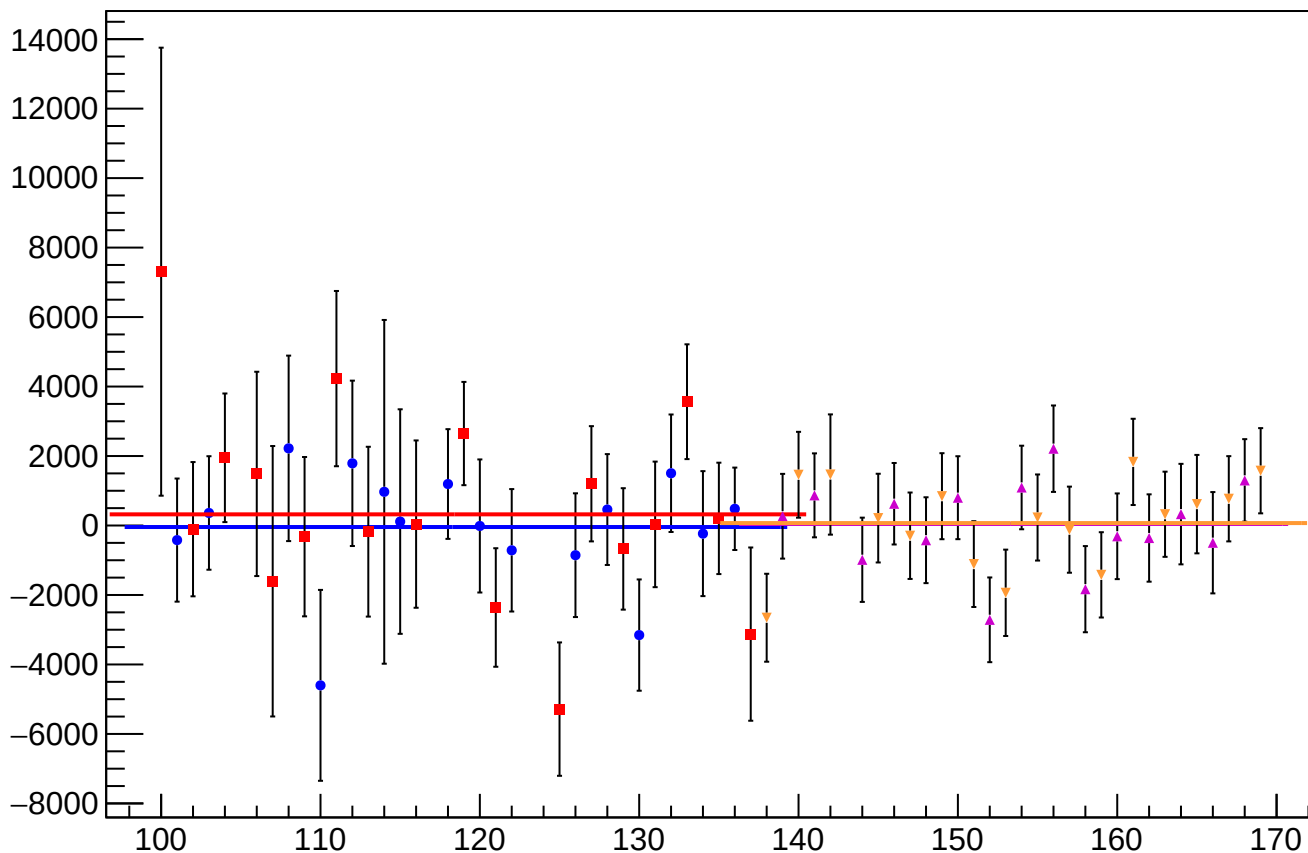
Right: 0.000+/-0.000 χ^2/NDF : 5591516.4/33

In: 0.000+/-0.000 χ^2/NDF :5426573.6/30

Out: 0.000+/-0.000 χ^2/NDF :4614606.8/33

All: 0.000+/-0.000 χ^2/NDF : 10047689.8/64

reg_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -43.681 ± 459.222 $\chi^2/\text{NDF}: 10.1/15$

Left Out: 70.075 ± 317.251 $\chi^2/\text{NDF}: 16.1/15$

Right Out: 321.266 ± 474.939 $\chi^2/\text{NDF}: 24.8/17$

Left In: 43.501 ± 320.621 $\chi^2/\text{NDF}: 14.7/14$

Left: 56.928 ± 225.512 $\chi^2/\text{NDF}: 30.8/30$

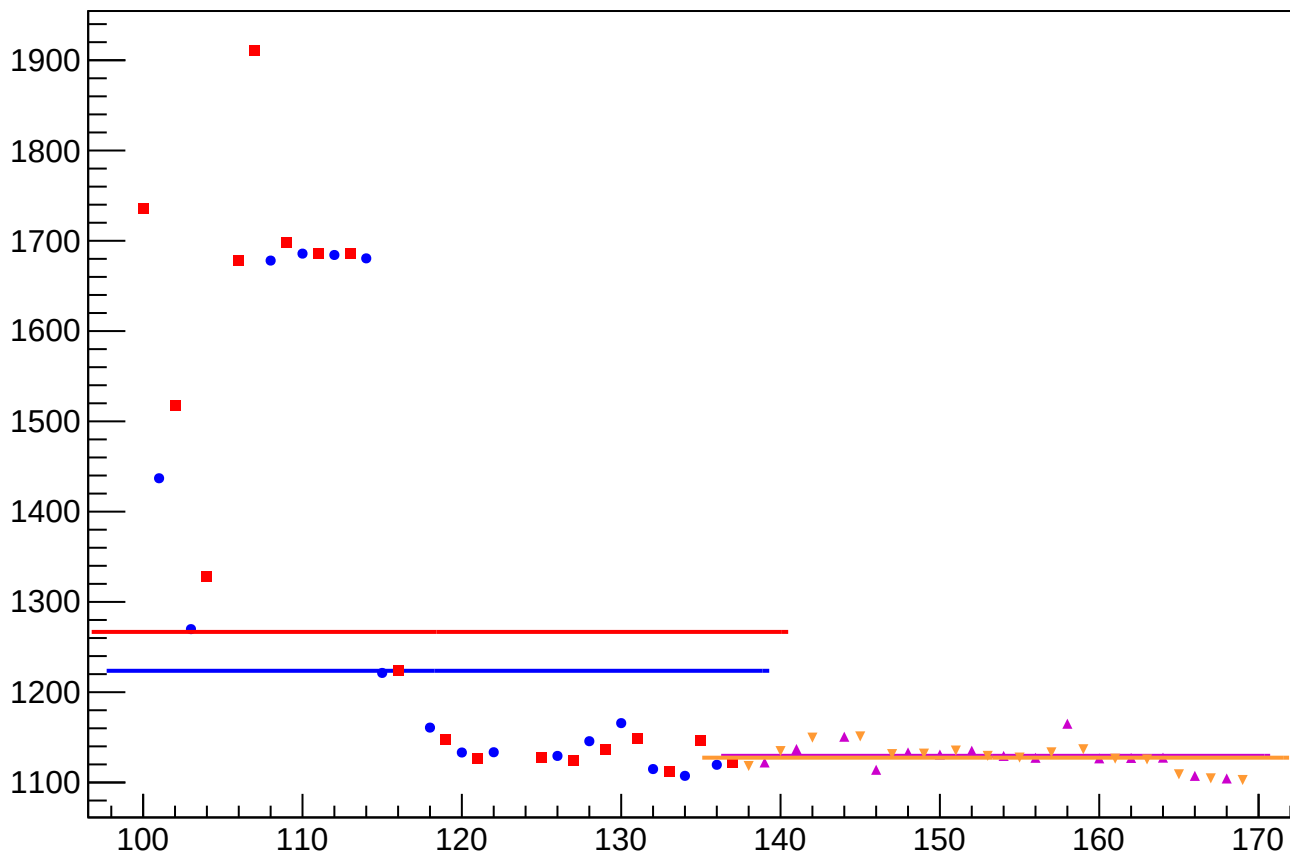
Right: 132.654 ± 330.136 $\chi^2/\text{NDF}: 35.2/33$

In: 14.930 ± 262.887 $\chi^2/\text{NDF}: 24.8/30$

Out: 147.576 ± 263.808 $\chi^2/\text{NDF}: 41.1/33$

All: 81.021 ± 186.214 $\chi^2/\text{NDF}: 66.0/64$

reg_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1223.705 $\pm$ 0.325 χ^2 /NDF: 294966.1/15

Left Out: 1127.470 $\pm$ 0.224 χ^2 /NDF: 3331.4/15

Right Out: 1266.780 $\pm$ 0.336 χ^2 /NDF: 432845.4/17

Left In: 1129.521 $\pm$ 0.227 χ^2 /NDF: 4197.7/14

Left: 1128.485 $\pm$ 0.159 χ^2 /NDF: 7570.4/30

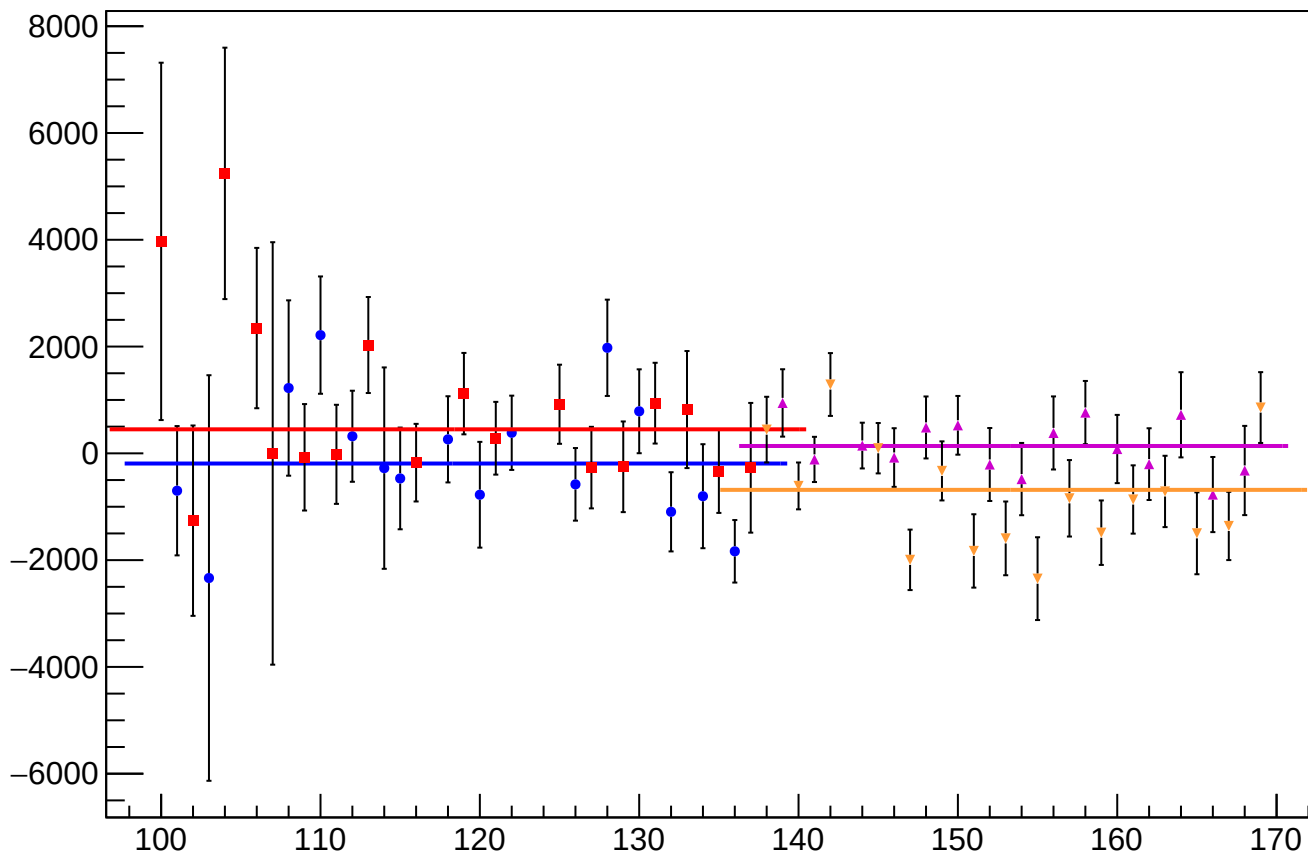
Right: 1244.518 $\pm$ 0.233 χ^2 /NDF: 736313.8/33

In: 1160.386 $\pm$ 0.186 χ^2 /NDF: 355722.0/30

Out: 1170.452 $\pm$ 0.187 χ^2 /NDF: 555159.9/33

All: 1165.401 $\pm$ 0.132 χ^2 /NDF: 912342.8/64

asym_usl_atl1_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -190.634 ± 222.869 χ^2/NDF : 25.2/15

Left Out: -683.912 ± 151.991 χ^2/NDF : 41.8/15

Right Out: 449.847 ± 223.203 χ^2/NDF : 16.8/17

Left In: 137.805 ± 154.066 χ^2/NDF : 8.1/14

Left: -278.624 ± 108.200 χ^2/NDF : 64.3/30

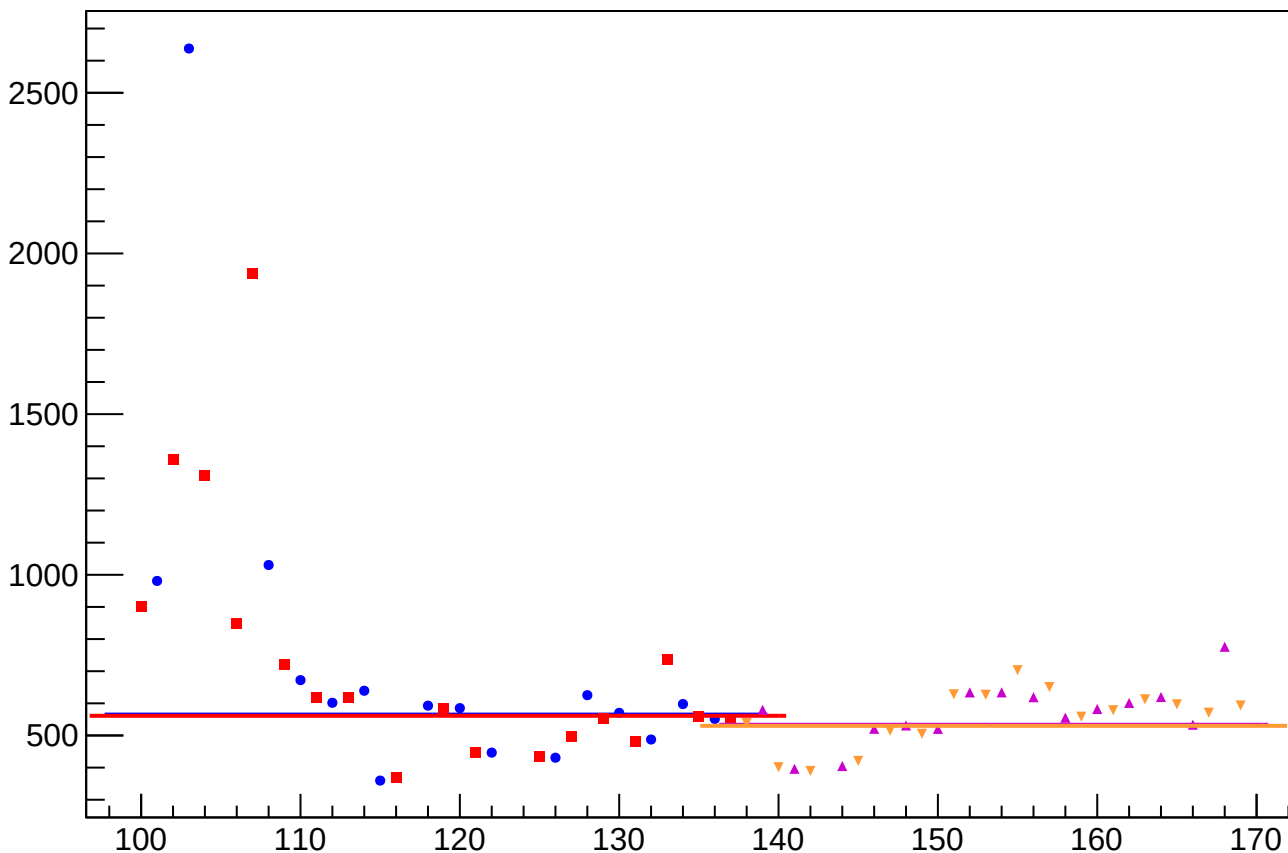
Right: 129.127 ± 157.710 χ^2/NDF : 46.2/33

In: 31.604 ± 126.732 χ^2/NDF : 34.8/30

Out: -324.738 ± 125.629 χ^2/NDF : 76.2/33

All: -148.124 ± 89.221 χ^2/NDF : 115.0/64

asym_usl_atl1_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 564.959 $\pm$ 0.158 χ^2 /NDF: 1284478.9/15

Left Out: 530.066 $\pm$ 0.107 χ^2 /NDF: 724217.6/15

Right Out: 561.243 $\pm$ 0.158 χ^2 /NDF: 1352239.3/17

Left In: 533.337 $\pm$ 0.109 χ^2 /NDF: 748883.6/14

Left: 531.680 $\pm$ 0.077 χ^2 /NDF: 1473558.1/30

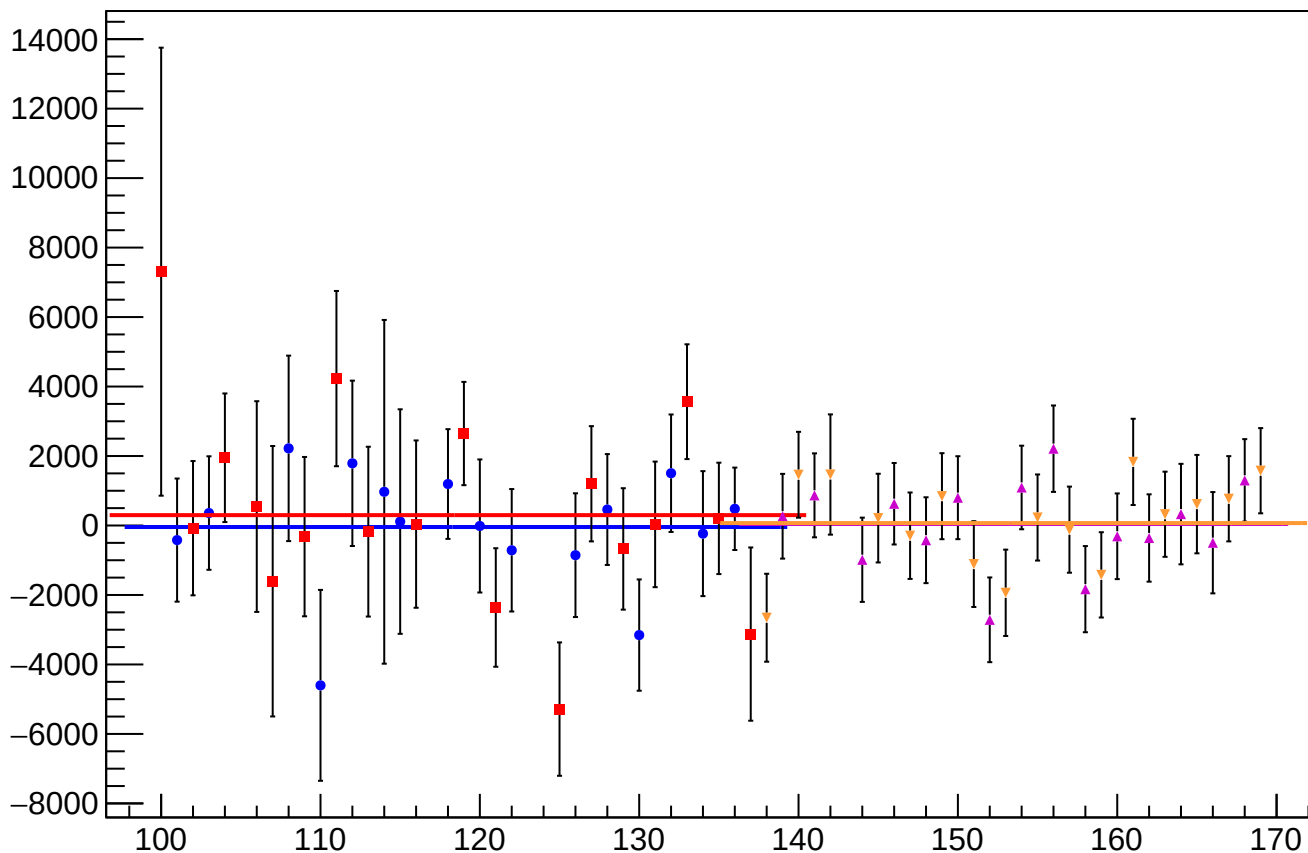
Right: 563.104 $\pm$ 0.112 χ^2 /NDF: 2636995.6/33

In: 543.562 $\pm$ 0.090 χ^2 /NDF: 2060605.6/30

Out: 539.943 $\pm$ 0.089 χ^2 /NDF: 2103116.3/33

All: 541.737 $\pm$ 0.063 χ^2 /NDF: 4164544.5/64

cor_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -43.923 ± 459.222 $\chi^2/\text{NDF}: 10.1/15$

Left Out: 70.129 ± 317.251 $\chi^2/\text{NDF}: 16.1/15$

Right Out: 298.207 ± 475.315 $\chi^2/\text{NDF}: 24.6/17$

Left In: 43.523 ± 320.621 $\chi^2/\text{NDF}: 14.7/14$

Left: 56.967 ± 225.512 $\chi^2/\text{NDF}: 30.8/30$

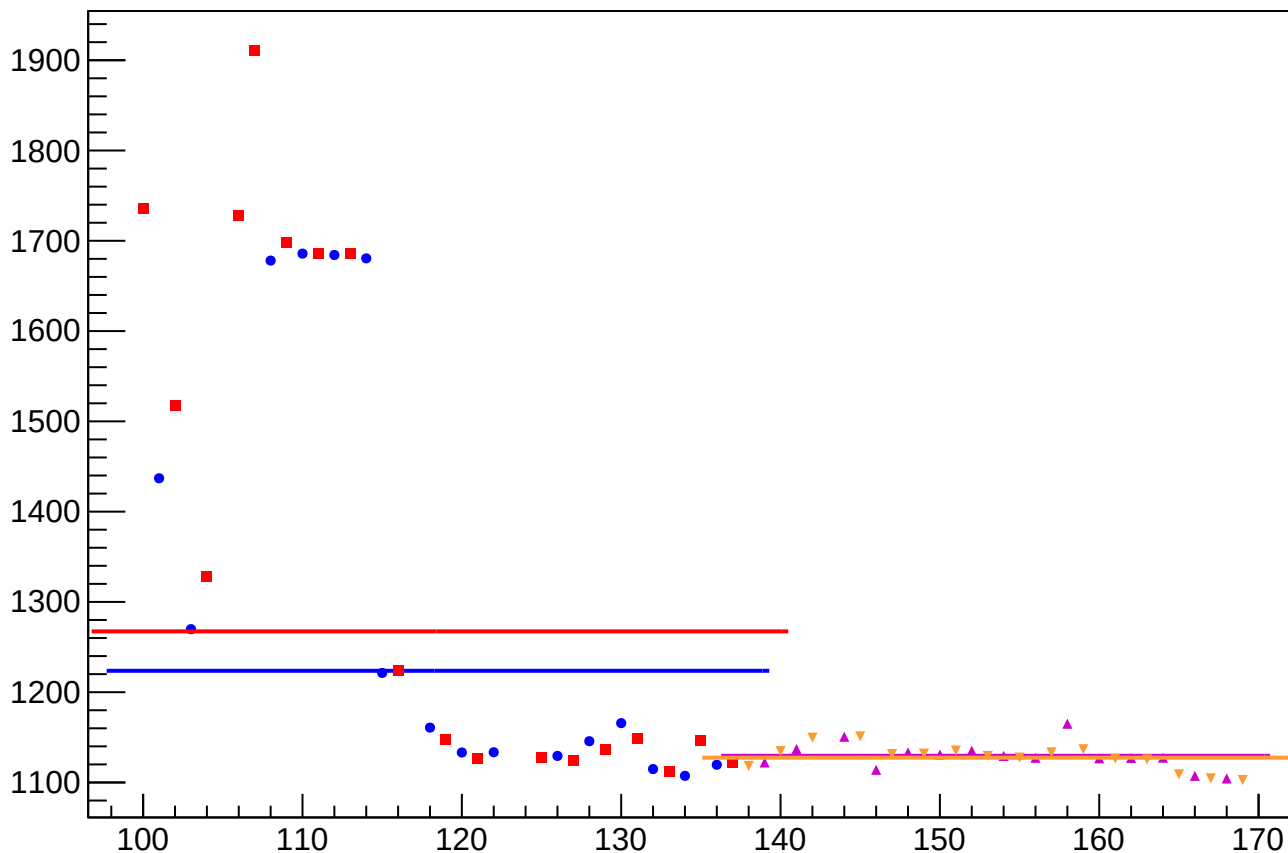
Right: 121.252 ± 330.262 $\chi^2/\text{NDF}: 35.0/33$

In: 14.866 ± 262.887 $\chi^2/\text{NDF}: 24.8/30$

Out: 140.422 ± 263.873 $\chi^2/\text{NDF}: 40.9/33$

All: 77.409 ± 186.237 $\chi^2/\text{NDF}: 65.8/64$

cor_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1223.705 $\pm$ 0.325 χ^2/NDF : 294966.1/15

Left Out: 1127.470 $\pm$ 0.224 χ^2/NDF : 3331.4/15

Right Out: 1267.363 $\pm$ 0.336 χ^2/NDF : 439982.4/17

Left In: 1129.521 $\pm$ 0.227 χ^2/NDF : 4197.7/14

Left: 1128.485 $\pm$ 0.159 χ^2/NDF : 7570.4/30

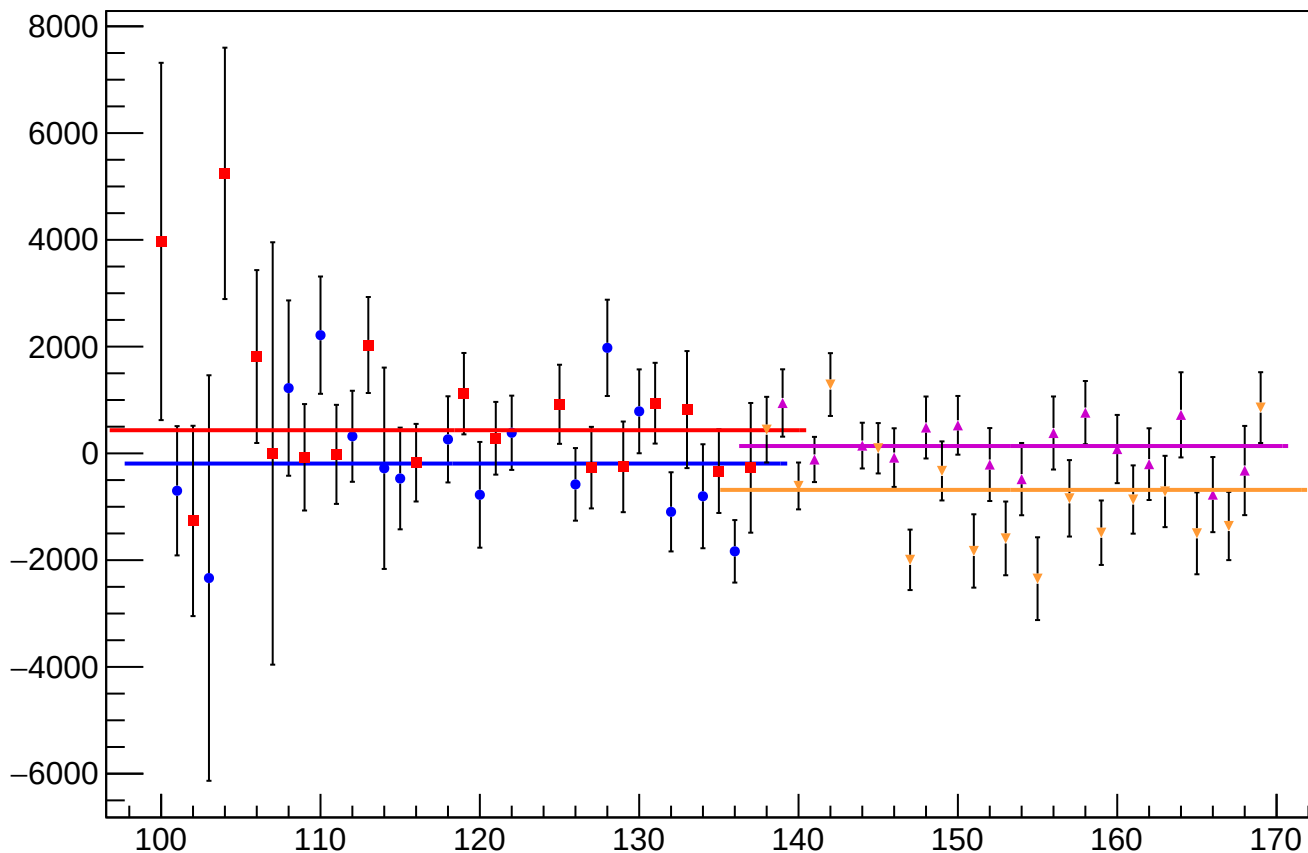
Right: 1244.783 $\pm$ 0.234 χ^2/NDF : 743675.6/33

In: 1160.386 $\pm$ 0.186 χ^2/NDF : 355722.1/30

Out: 1170.585 $\pm$ 0.187 χ^2/NDF : 563164.5/33

All: 1165.466 $\pm$ 0.132 χ^2/NDF : 920385.9/64

asym_usl_atl1_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -190.645 ± 222.867 $\chi^2/\text{NDF}: 25.3/15$

Left Out: -683.933 ± 151.990 $\chi^2/\text{NDF}: 41.8/15$

Right Out: 433.877 ± 223.547 $\chi^2/\text{NDF}: 15.9/17$

Left In: 137.799 ± 154.065 $\chi^2/\text{NDF}: 8.1/14$

Left: -278.638 ± 108.200 $\chi^2/\text{NDF}: 64.3/30$

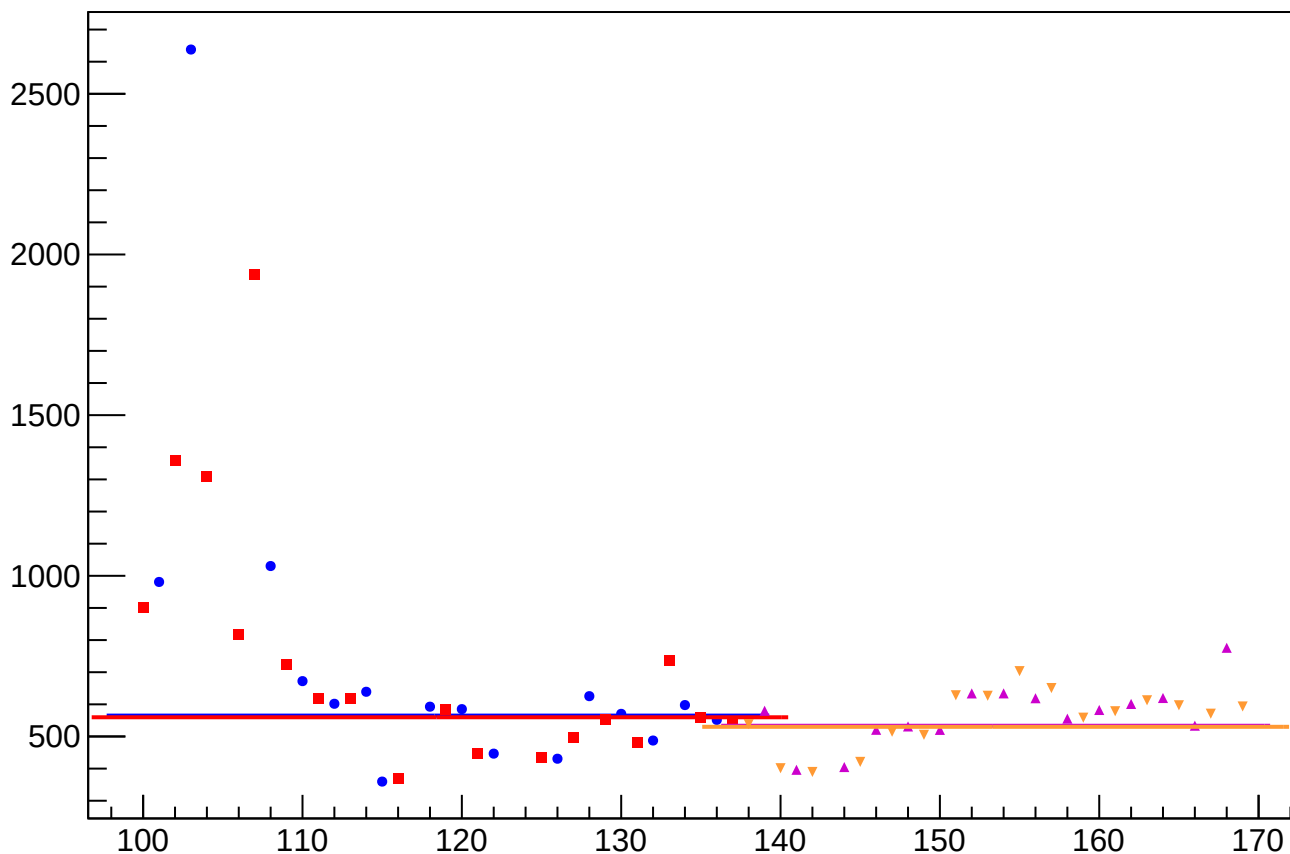
Right: 120.665 ± 157.831 $\chi^2/\text{NDF}: 45.1/33$

In: 31.595 ± 126.732 $\chi^2/\text{NDF}: 34.8/30$

Out: -330.559 ± 125.691 $\chi^2/\text{NDF}: 74.8/33$

All: -150.976 ± 89.243 $\chi^2/\text{NDF}: 113.8/64$

asym_usl_atl1_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 564.954+/-0.158 χ^2/NDF : 1284455.7/15

Left Out: 530.065+/-0.107 χ^2/NDF : 724203.2/15

Right Out: 559.758+/-0.158 χ^2/NDF : 1329357.2/17

Left In: 533.338+/-0.109 χ^2/NDF : 748837.5/14

Left: 531.679+/-0.077 χ^2/NDF : 1473497.9/30

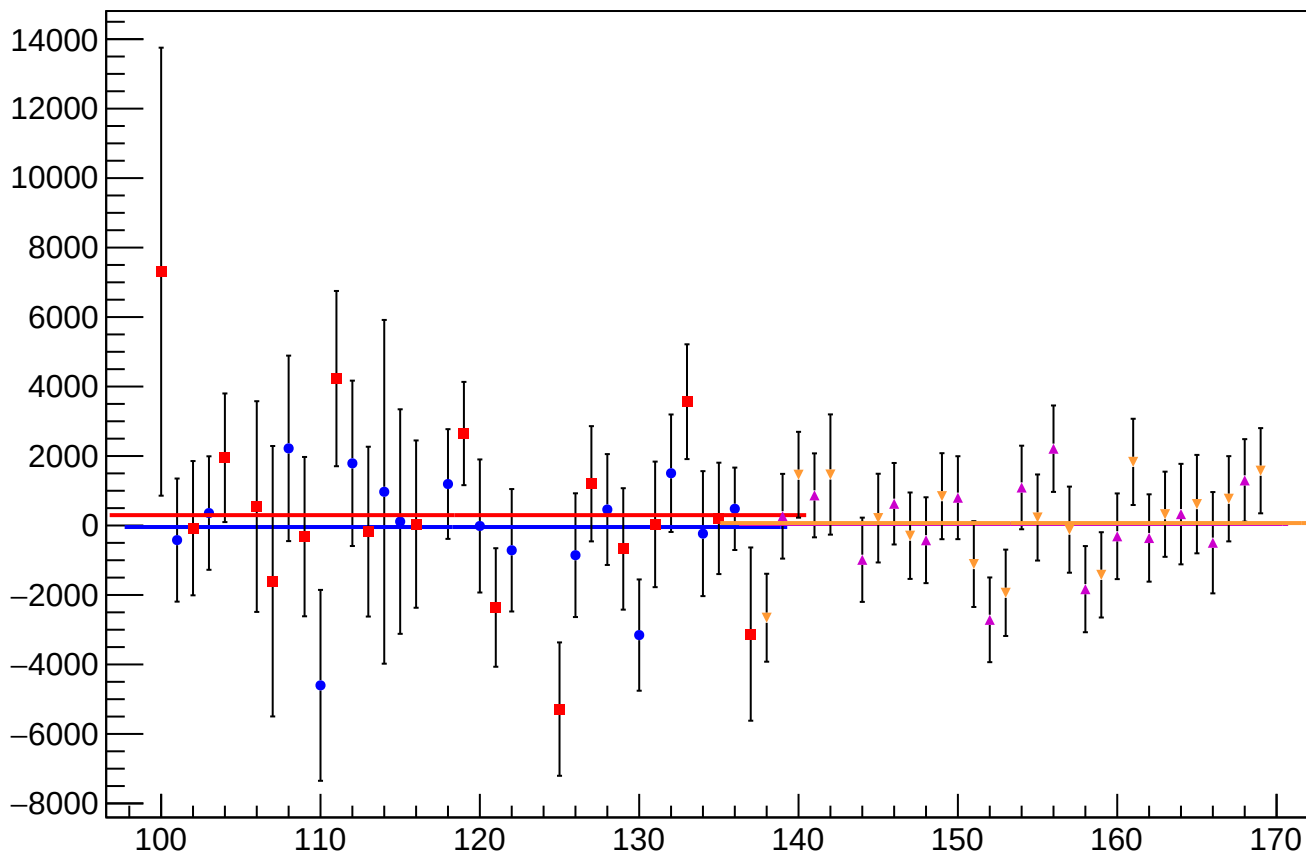
Right: 562.364+/-0.112 χ^2/NDF : 2614354.9/33

In: 543.561+/-0.090 χ^2/NDF : 2060528.4/30

Out: 539.452+/-0.089 χ^2/NDF : 2077690.1/33

All: 541.490+/-0.063 χ^2/NDF : 4139278.4/64

eigen_cor_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -43.923 ± 459.222 $\chi^2/\text{NDF}: 10.1/15$

Left Out: 70.129 ± 317.251 $\chi^2/\text{NDF}: 16.1/15$

Right Out: 298.207 ± 475.315 $\chi^2/\text{NDF}: 24.6/17$

Left In: 43.523 ± 320.621 $\chi^2/\text{NDF}: 14.7/14$

Left: 56.967 ± 225.512 $\chi^2/\text{NDF}: 30.8/30$

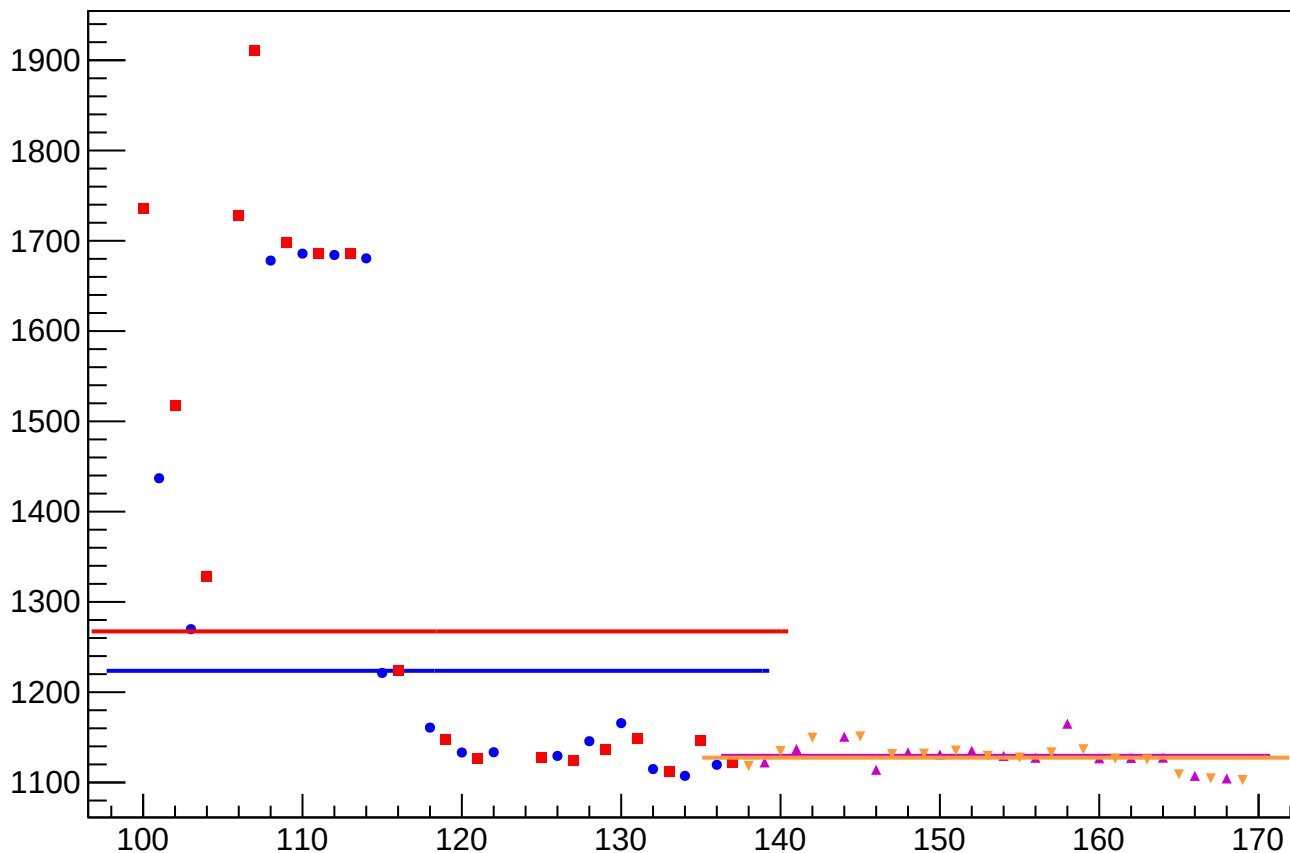
Right: 121.252 ± 330.262 $\chi^2/\text{NDF}: 35.0/33$

In: 14.866 ± 262.887 $\chi^2/\text{NDF}: 24.8/30$

Out: 140.422 ± 263.873 $\chi^2/\text{NDF}: 40.9/33$

All: 77.409 ± 186.237 $\chi^2/\text{NDF}: 65.8/64$

eigen_cor_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1223.705+/-0.325 χ^2/NDF : 294966.1/15

Left Out: 1127.470+/-0.224 χ^2/NDF : 3331.4/15

Right Out: 1267.363+/-0.336 χ^2/NDF : 439982.4/17

Left In: 1129.521+/-0.227 χ^2/NDF : 4197.7/14

Left: 1128.485+/-0.159 χ^2/NDF : 7570.4/30

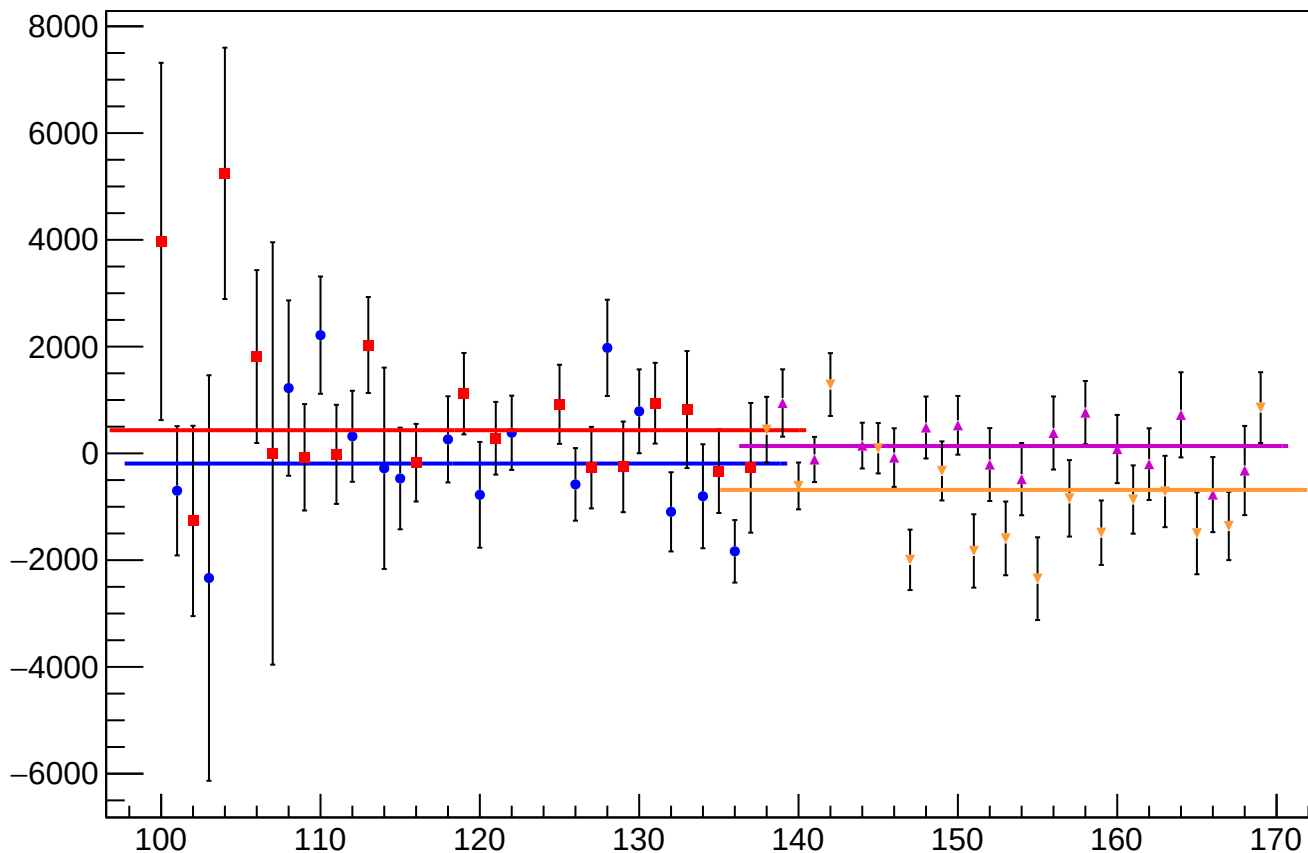
Right: 1244.783+/-0.234 χ^2/NDF : 743675.6/33

In: 1160.386+/-0.186 χ^2/NDF : 355722.1/30

Out: 1170.585+/-0.187 χ^2/NDF : 563164.5/33

All: 1165.466+/-0.132 χ^2/NDF : 920385.9/64

asym_usl_atl1_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -190.645 ± 222.867 $\chi^2/\text{NDF}: 25.3/15$

Left Out: -683.933 ± 151.990 $\chi^2/\text{NDF}: 41.8/15$

Right Out: 433.877 ± 223.547 $\chi^2/\text{NDF}: 15.9/17$

Left In: 137.799 ± 154.065 $\chi^2/\text{NDF}: 8.1/14$

Left: -278.638 ± 108.200 $\chi^2/\text{NDF}: 64.3/30$

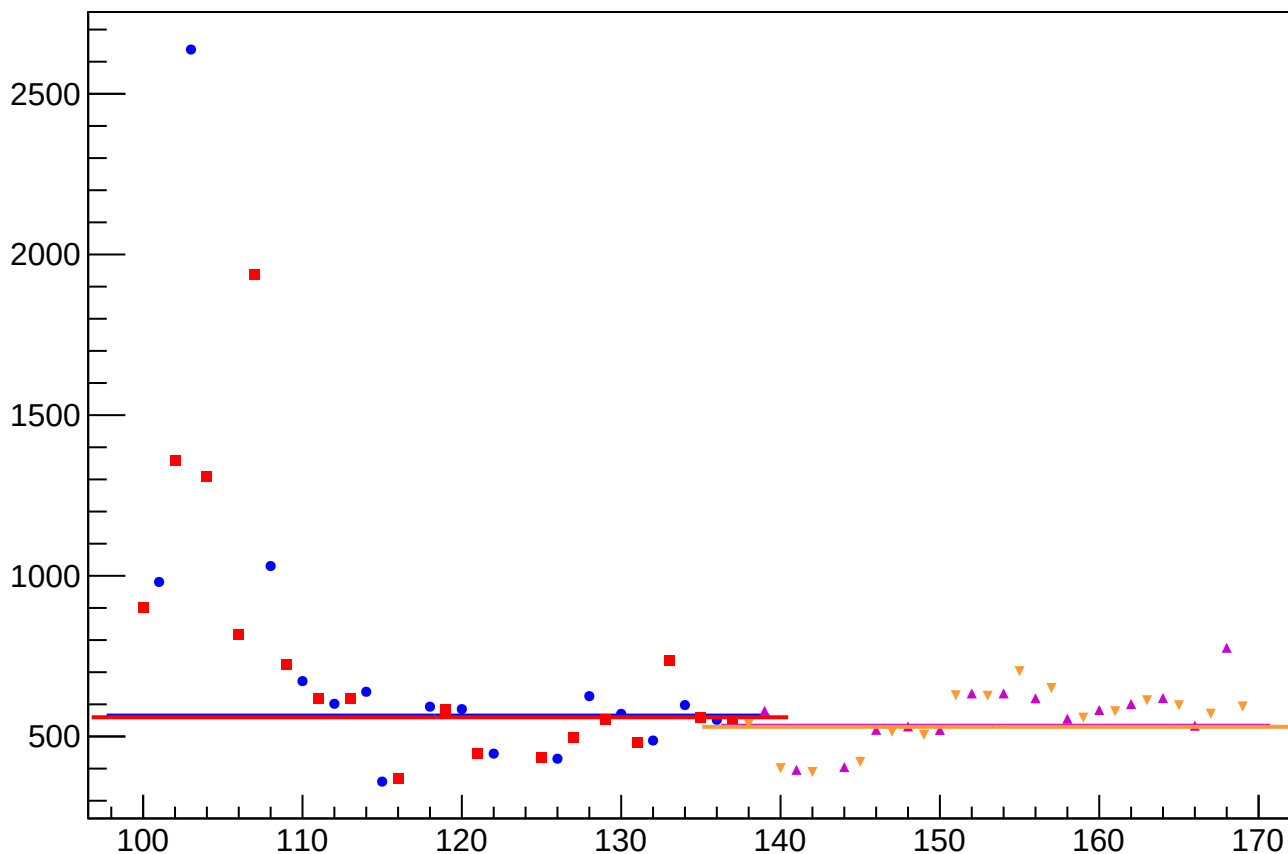
Right: 120.665 ± 157.831 $\chi^2/\text{NDF}: 45.1/33$

In: 31.595 ± 126.732 $\chi^2/\text{NDF}: 34.8/30$

Out: -330.559 ± 125.691 $\chi^2/\text{NDF}: 74.8/33$

All: -150.976 ± 89.243 $\chi^2/\text{NDF}: 113.8/64$

asym_usl_atl1_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 564.954+/-0.158 χ^2/NDF : 1284455.7/15

Left Out: 530.065+/-0.107 χ^2/NDF : 724203.2/15

Right Out: 559.758+/-0.158 χ^2/NDF : 1329357.2/17

Left In: 533.338+/-0.109 χ^2/NDF : 748837.5/14

Left: 531.679+/-0.077 χ^2/NDF : 1473497.9/30

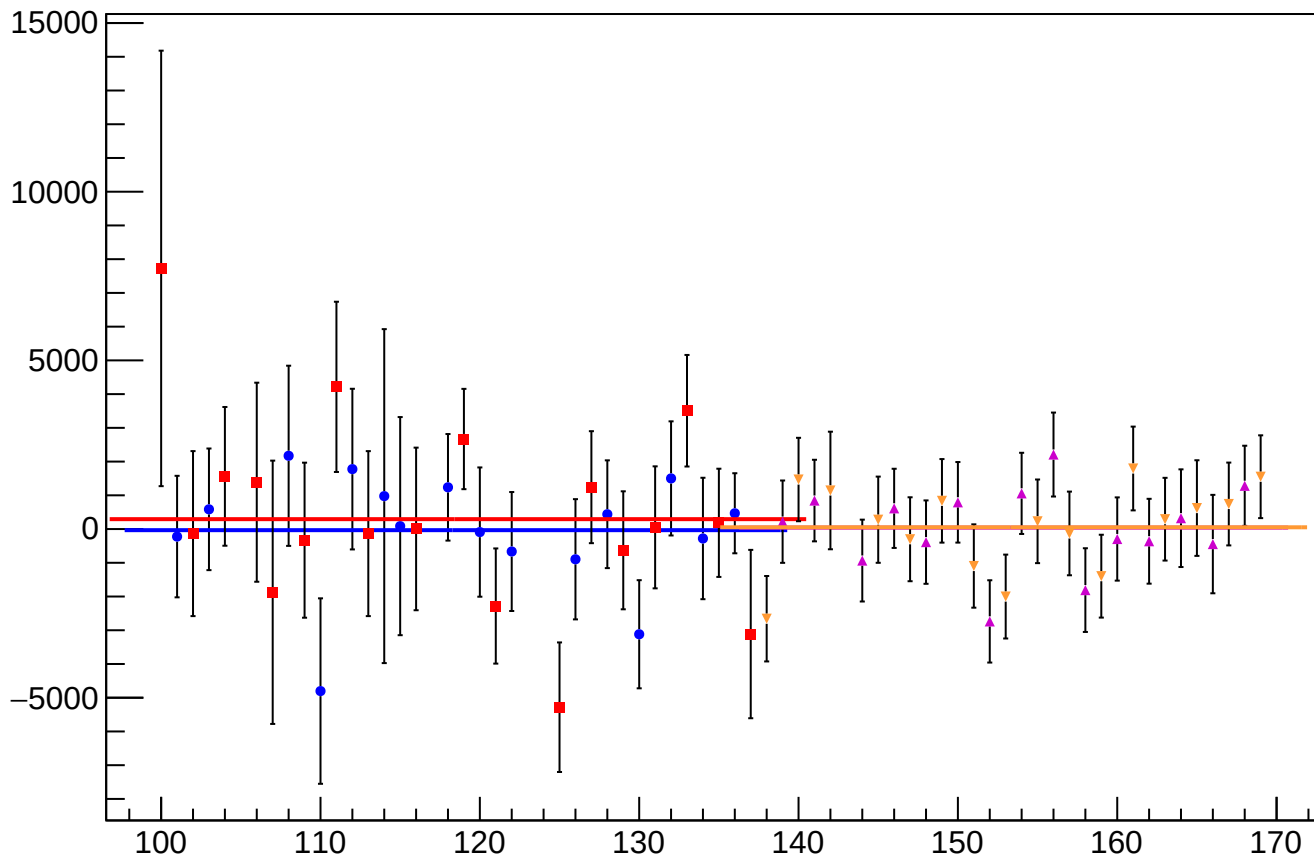
Right: 562.364+/-0.112 χ^2/NDF : 2614354.9/33

In: 543.561+/-0.090 χ^2/NDF : 2060528.4/30

Out: 539.452+/-0.089 χ^2/NDF : 2077690.1/33

All: 541.490+/-0.063 χ^2/NDF : 4139278.4/64

dit_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -33.062 ± 463.216 $\chi^2/\text{NDF}: 10.3/15$

Left Out: 52.049 ± 317.450 $\chi^2/\text{NDF}: 15.8/15$

Right Out: 293.384 ± 483.838 $\chi^2/\text{NDF}: 24.2/17$

Left In: 42.088 ± 320.750 $\chi^2/\text{NDF}: 14.4/14$

Left: 47.120 ± 225.629 $\chi^2/\text{NDF}: 30.2/30$

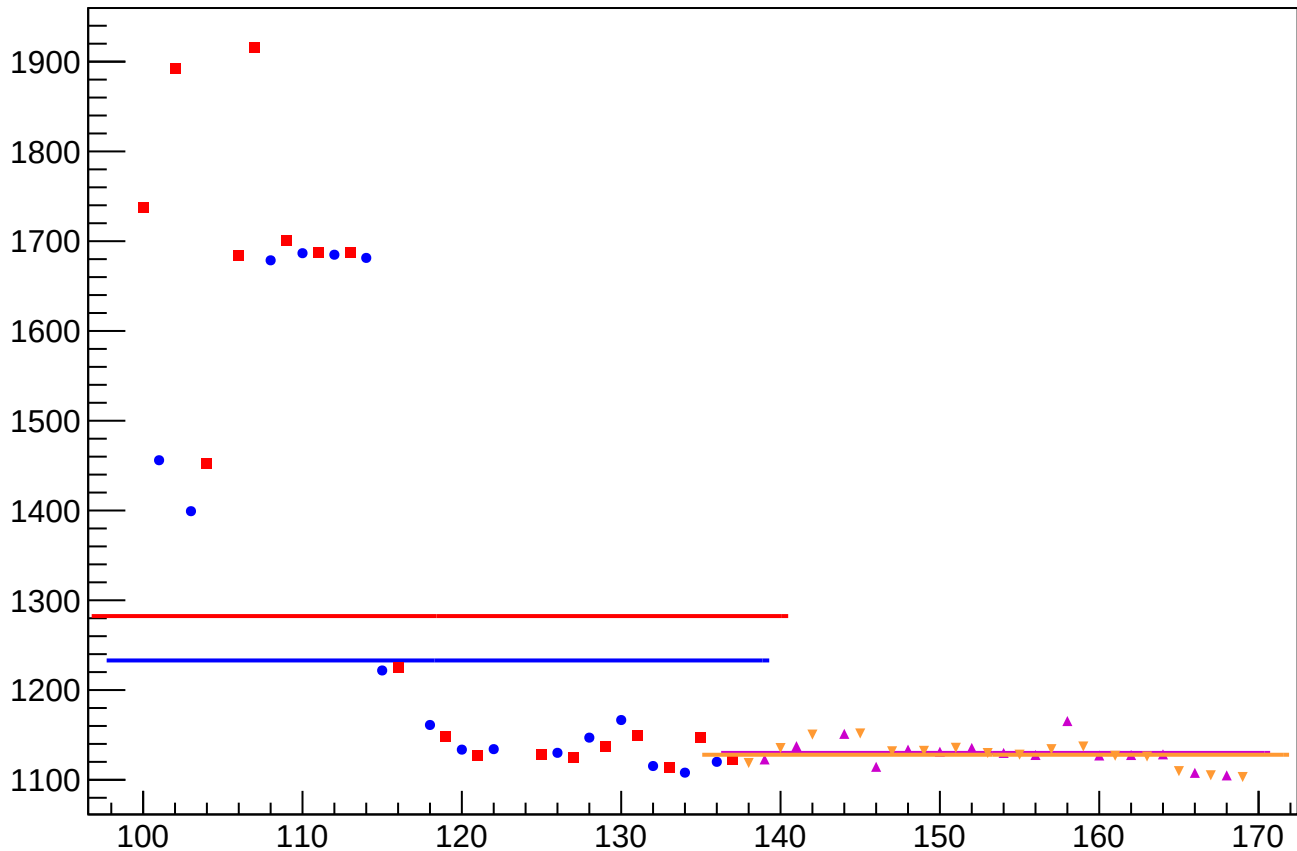
Right: 123.056 ± 334.596 $\chi^2/\text{NDF}: 34.7/33$

In: 17.733 ± 263.702 $\chi^2/\text{NDF}: 24.7/30$

Out: 124.675 ± 265.421 $\chi^2/\text{NDF}: 40.2/33$

All: 70.856 ± 187.070 $\chi^2/\text{NDF}: 65.0/64$

dit_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1232.965 $\pm$ 0.328 χ^2/NDF : 315470.6/15

Left Out: 1127.930 $\pm$ 0.224 χ^2/NDF : 3338.6/15

Right Out: 1282.407 $\pm$ 0.342 χ^2/NDF : 543403.8/17

Left In: 1129.976 $\pm$ 0.227 χ^2/NDF : 4186.4/14

Left: 1128.942 $\pm$ 0.160 χ^2/NDF : 7566.1/30

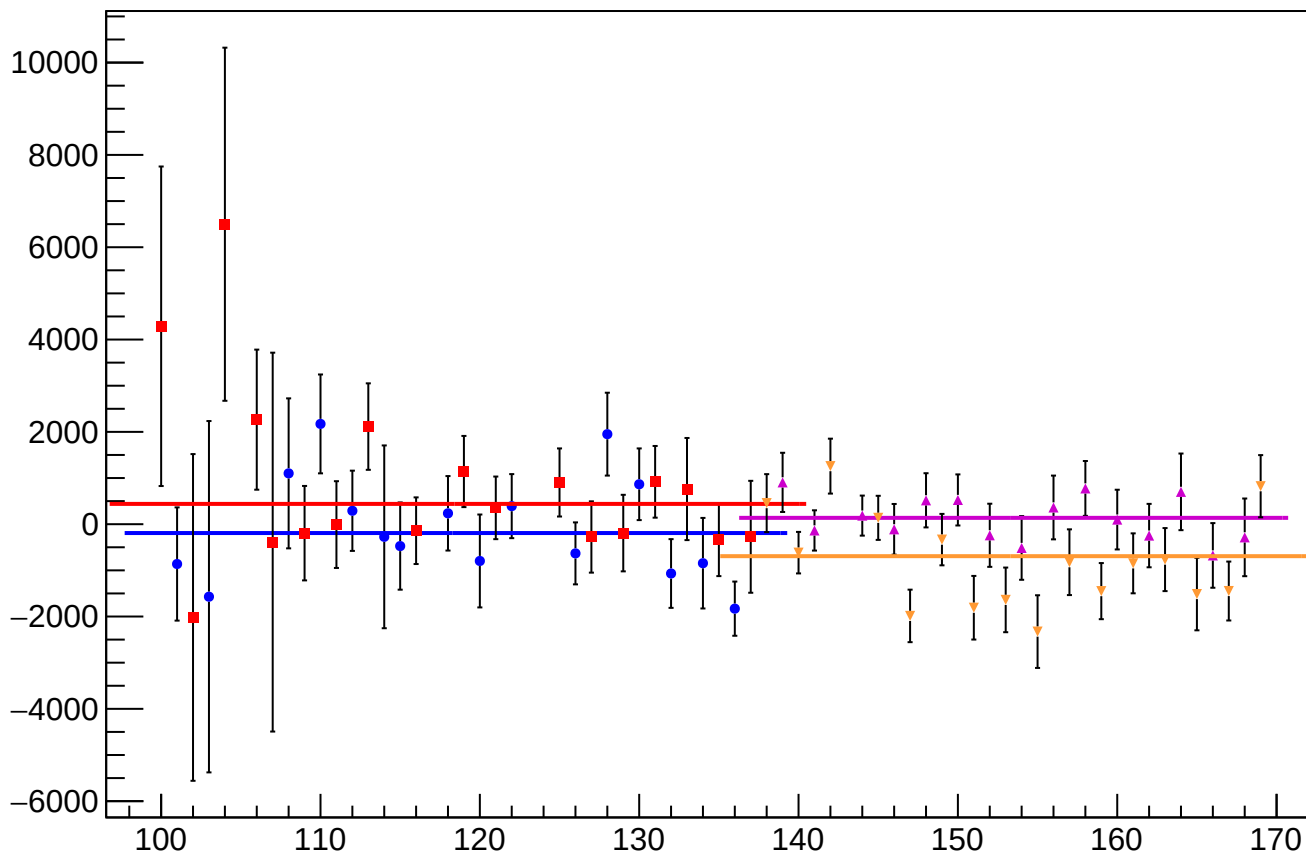
Right: 1256.610 $\pm$ 0.237 χ^2/NDF : 869771.1/33

In: 1163.353 $\pm$ 0.186 χ^2/NDF : 386482.2/30

Out: 1174.417 $\pm$ 0.188 χ^2/NDF : 689262.0/33

All: 1168.849 $\pm$ 0.132 χ^2/NDF : 1077493.3/64

asym_usl_atl1_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -191.528 ± 222.764 $\chi^2/\text{NDF}: 25.3/15$

Left Out: -692.664 ± 153.861 $\chi^2/\text{NDF}: 40.7/15$

Right Out: 439.610 ± 226.600 $\chi^2/\text{NDF}: 14.6/17$

Left In: 137.460 ± 156.033 $\chi^2/\text{NDF}: 7.8/14$

Left: -283.420 ± 109.556 $\chi^2/\text{NDF}: 62.9/30$

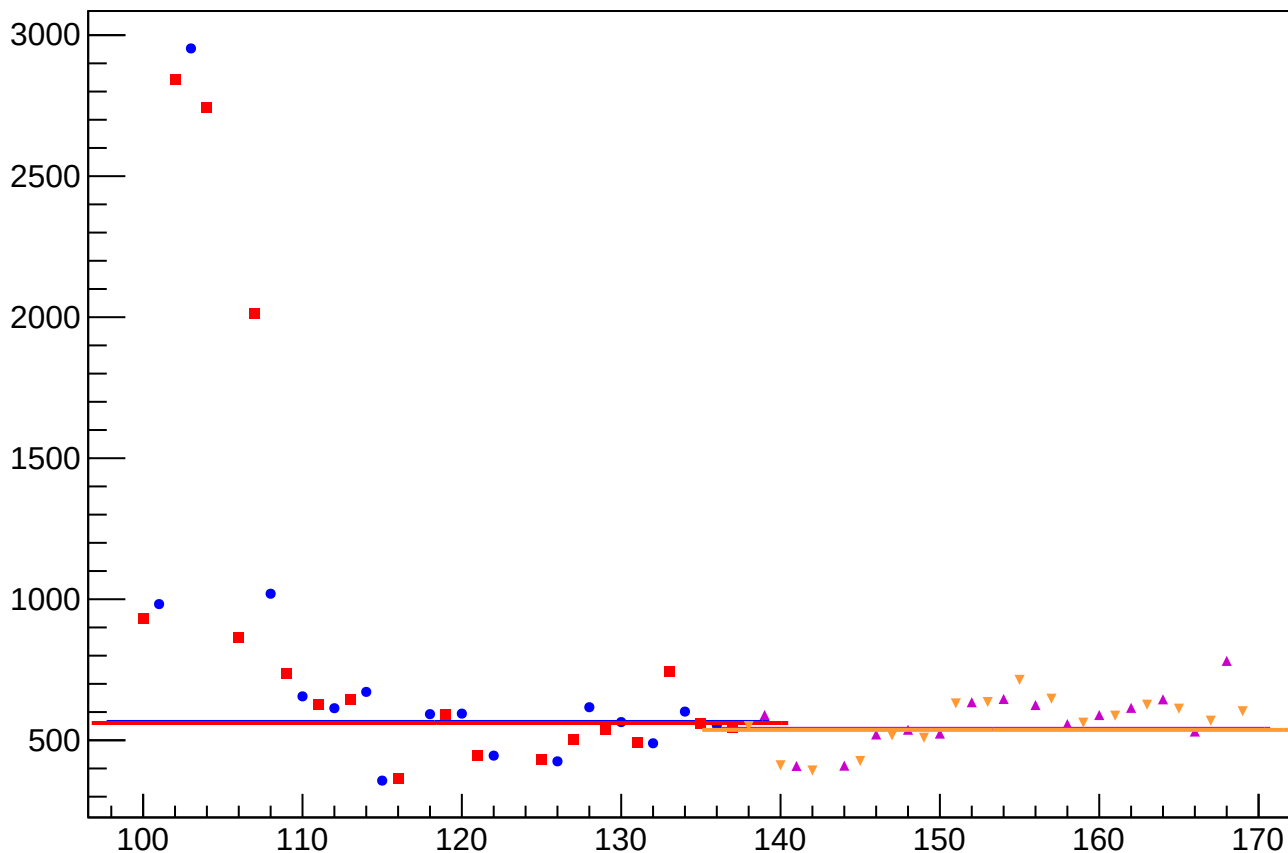
Right: 118.653 ± 158.857 $\chi^2/\text{NDF}: 43.9/33$

In: 29.178 ± 127.800 $\chi^2/\text{NDF}: 34.5/30$

Out: -335.371 ± 127.291 $\chi^2/\text{NDF}: 72.5/33$

All: -153.825 ± 90.188 $\chi^2/\text{NDF}: 111.1/64$

asym_usl_atl1_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 564.871+/-0.158 χ^2/NDF : 1480375.5/15

Left Out: 536.883+/-0.109 χ^2/NDF : 707645.2/15

Right Out: 561.273+/-0.160 χ^2/NDF : 2273371.7/17

Left In: 540.570+/-0.110 χ^2/NDF : 727353.3/14

Left: 538.700+/-0.077 χ^2/NDF : 1435564.5/30

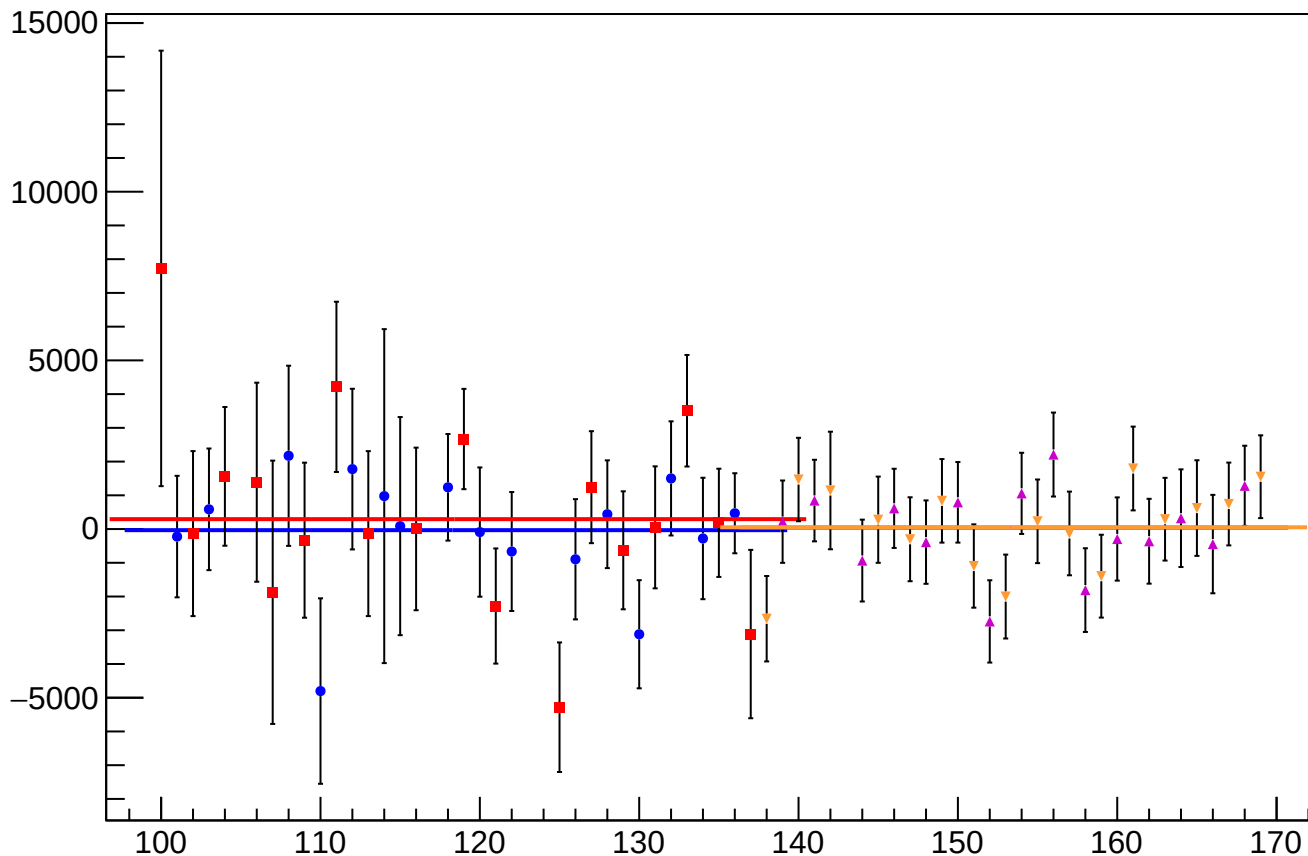
Right: 563.103+/-0.112 χ^2/NDF : 3754003.6/33

In: 548.568+/-0.090 χ^2/NDF : 2223696.1/30

Out: 544.579+/-0.090 χ^2/NDF : 2996875.9/33

All: 546.566+/-0.064 χ^2/NDF : 5221550.0/64

eigen_dit_asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: -33.061 ± 463.216 χ^2/NDF : 10.3/15

Left Out: 52.047 ± 317.450 χ^2/NDF : 15.8/15

Right Out: 293.384 ± 483.838 χ^2/NDF : 24.2/17

Left In: 42.089 ± 320.750 χ^2/NDF : 14.4/14

Left: 47.119 ± 225.629 χ^2/NDF : 30.2/30

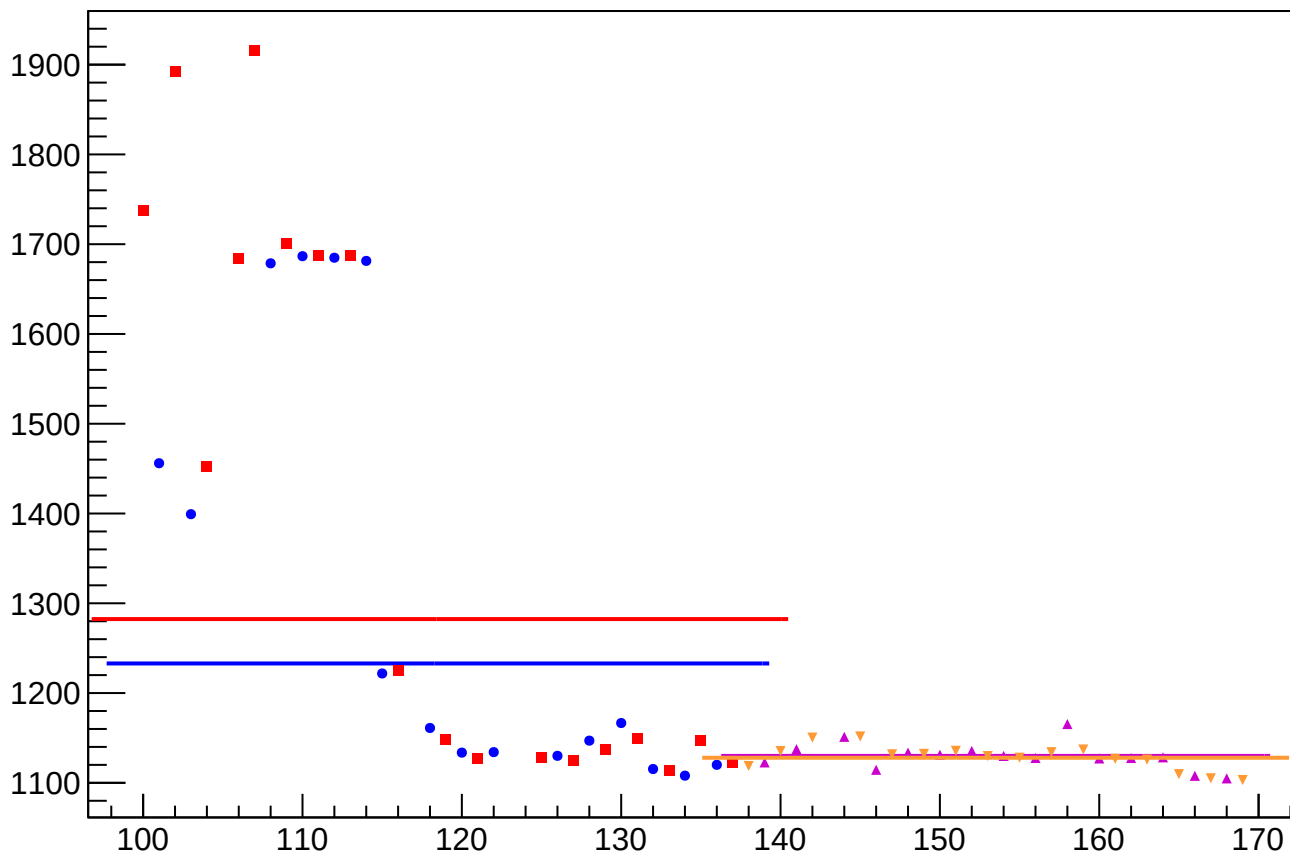
Right: 123.057 ± 334.596 χ^2/NDF : 34.7/33

In: 17.734 ± 263.702 χ^2/NDF : 24.7/30

Out: 124.673 ± 265.421 χ^2/NDF : 40.2/33

All: 70.856 ± 187.070 χ^2/NDF : 65.0/64

eigen_dit_asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1232.965+/-0.328 χ^2/NDF : 315470.2/15

Left Out: 1127.930+/-0.224 χ^2/NDF : 3338.6/15

Right Out: 1282.407+/-0.342 χ^2/NDF : 543403.2/17

Left In: 1129.976+/-0.227 χ^2/NDF : 4186.4/14

Left: 1128.942+/-0.160 χ^2/NDF : 7566.1/30

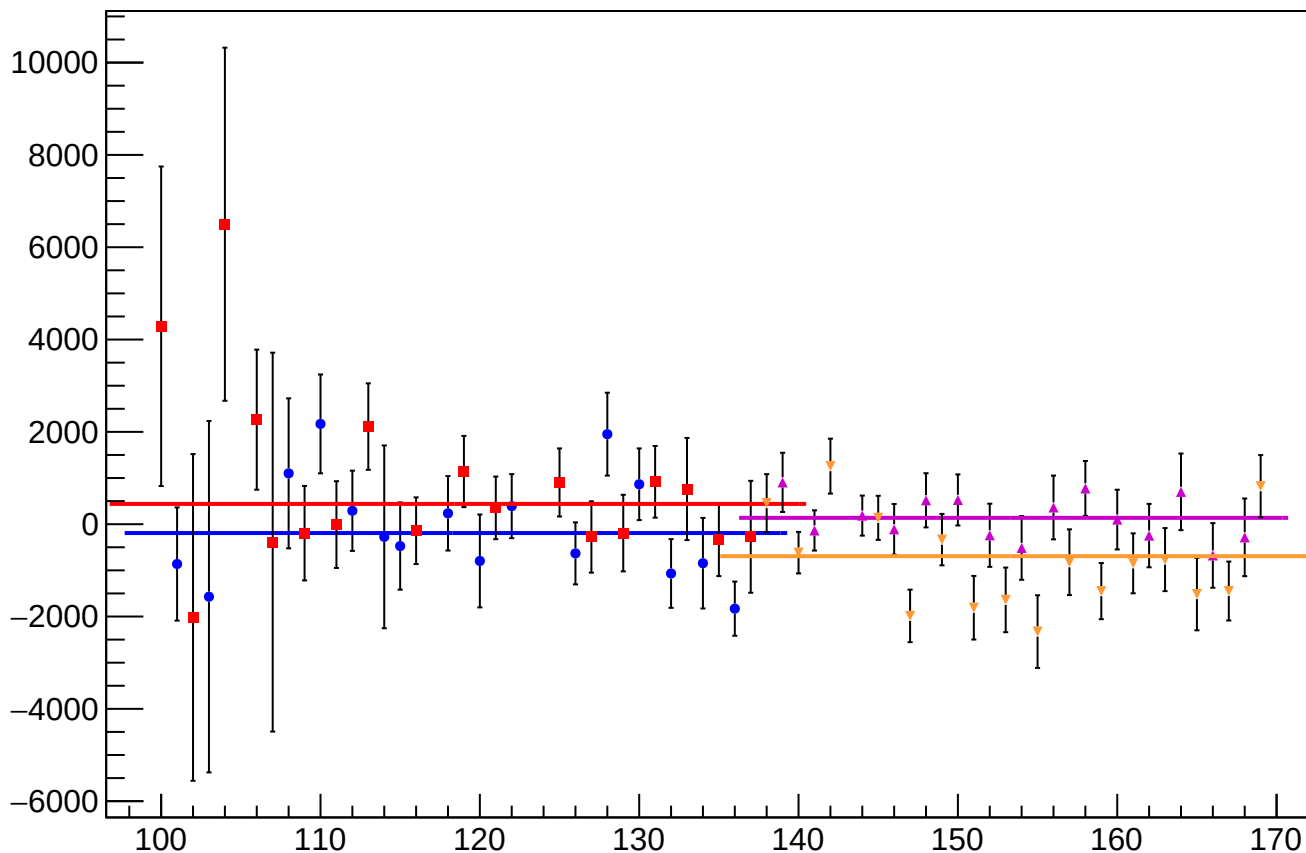
Right: 1256.610+/-0.237 χ^2/NDF : 869770.2/33

In: 1163.353+/-0.186 χ^2/NDF : 386481.7/30

Out: 1174.417+/-0.188 χ^2/NDF : 689261.3/33

All: 1168.849+/-0.132 χ^2/NDF : 1077492.1/64

asym_usl_atl1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -191.527 ± 222.763 $\chi^2/\text{NDF}: 25.3/15$

Left Out: -692.662 ± 153.860 $\chi^2/\text{NDF}: 40.7/15$

Right Out: 439.611 ± 226.600 $\chi^2/\text{NDF}: 14.6/17$

Left In: 137.461 ± 156.032 $\chi^2/\text{NDF}: 7.8/14$

Left: -283.419 ± 109.556 $\chi^2/\text{NDF}: 62.9/30$

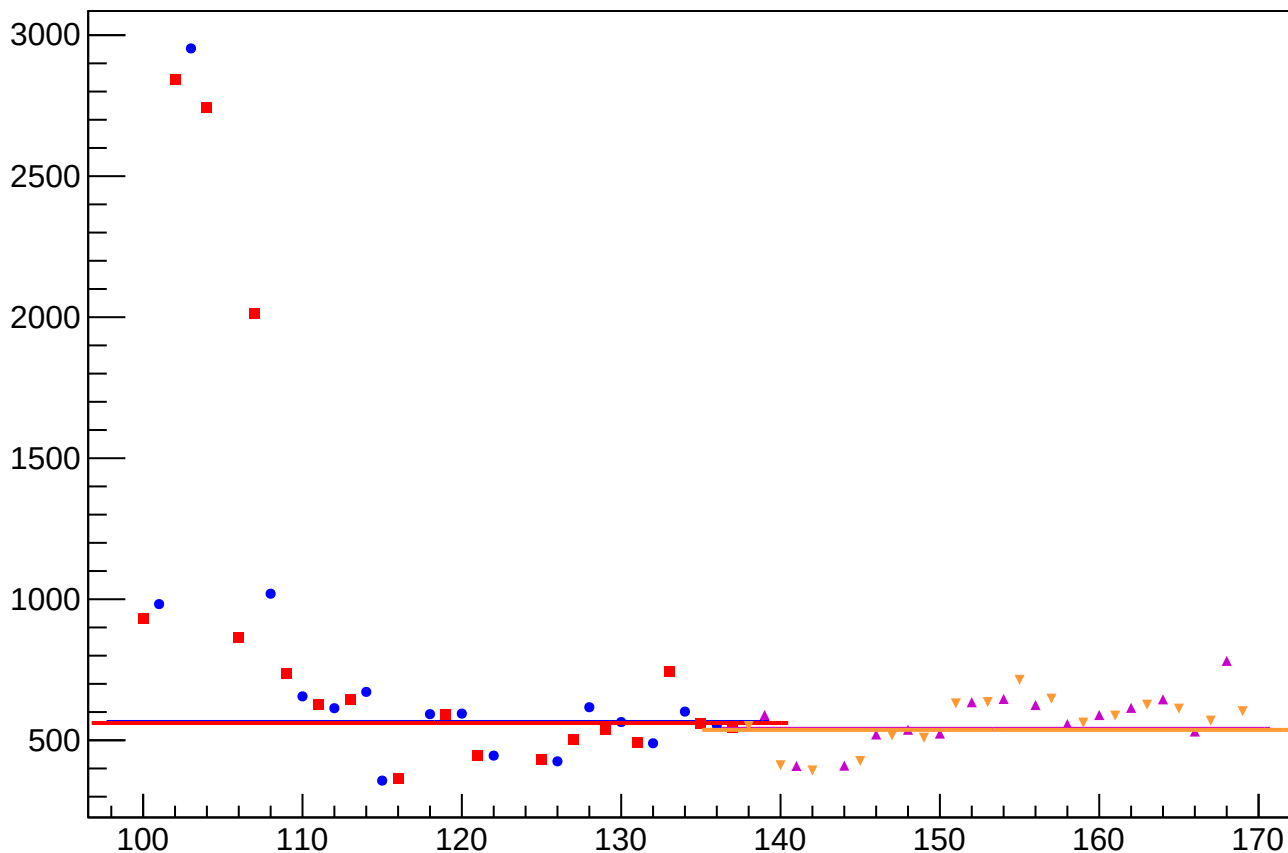
Right: 118.653 ± 158.857 $\chi^2/\text{NDF}: 43.9/33$

In: 29.179 ± 127.800 $\chi^2/\text{NDF}: 34.5/30$

Out: -335.370 ± 127.291 $\chi^2/\text{NDF}: 72.5/33$

All: -153.824 ± 90.188 $\chi^2/\text{NDF}: 111.1/64$

asym_usl_atl1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 564.871+/-0.158 χ^2/NDF : 1480372.9/15

Left Out: 536.882+/-0.109 χ^2/NDF : 707663.8/15

Right Out: 561.273+/-0.160 χ^2/NDF : 2273372.4/17

Left In: 540.569+/-0.110 χ^2/NDF : 727365.5/14

Left: 538.700+/-0.077 χ^2/NDF : 1435595.4/30

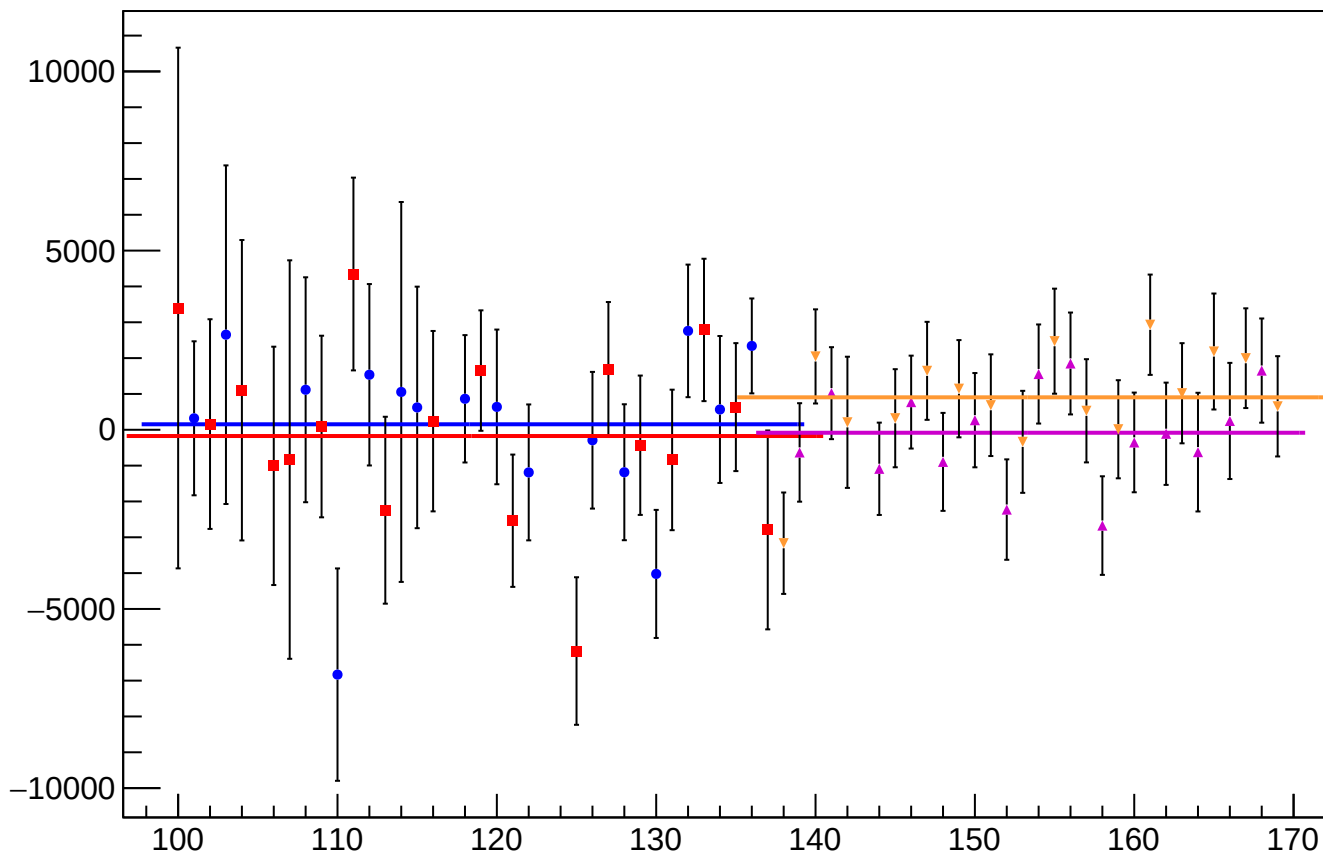
Right: 563.103+/-0.112 χ^2/NDF : 3754001.7/33

In: 548.568+/-0.090 χ^2/NDF : 2223706.3/30

Out: 544.579+/-0.090 χ^2/NDF : 2996896.1/33

All: 546.565+/-0.064 χ^2/NDF : 5221580.5/64

asym_usl_atl1_dd_mean vs Slug, Sign Corrected



Right In: 153.375 $\pm$ 532.096 χ^2 /NDF: 17.8/15

Left Out: 905.883 $\pm$ 355.946 χ^2 /NDF:15.5/15

Right Out: -174.319 $\pm$ 550.153 χ^2 /NDF: 19.7/17

Left In: -83.027 $\pm$ 359.686 χ^2 /NDF:13.1/14

Left: 416.596 $\pm$ 253.004 χ^2 /NDF: 32.4/30

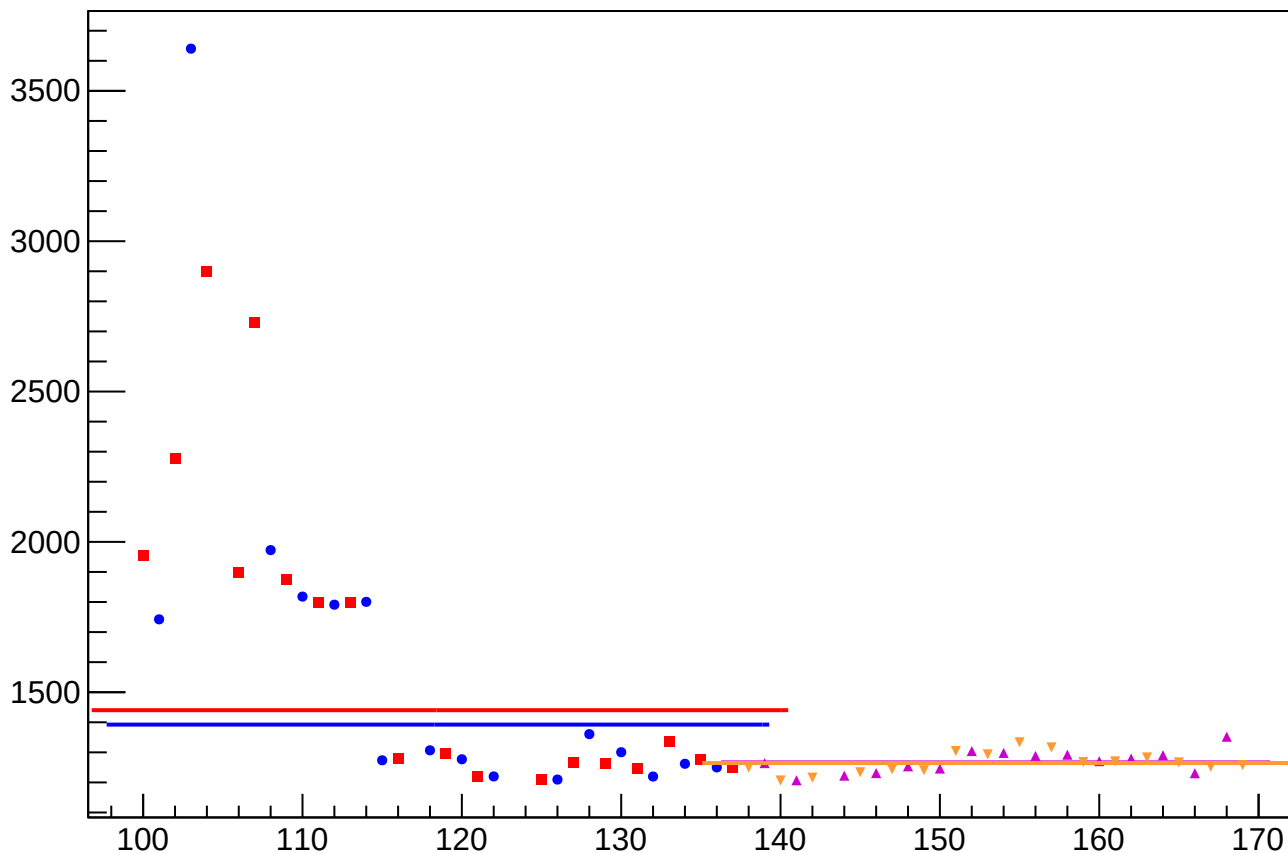
Right: -5.006 $\pm$ 382.473 χ^2 /NDF: 37.6/33

In: -8.883 $\pm$ 297.990 χ^2 /NDF:31.0/30

Out: 587.136 $\pm$ 298.851 χ^2 /NDF:37.9/33

All: 288.267 $\pm$ 211.014 χ^2 /NDF: 70.9/64

asym_usl_atl1_dd_rms vs Slug, Sign Corrected



Right In: 1392.299+/-0.376 χ^2/NDF : 779240.9/15

Left Out: 1264.429+/-0.252 χ^2/NDF :17657.1/15

Right Out: 1440.222+/-0.389 χ^2/NDF : 854885.8/17

Left In: 1266.620+/-0.254 χ^2/NDF :20946.7/14

Left: 1265.513+/-0.179 χ^2/NDF : 38641.2/30

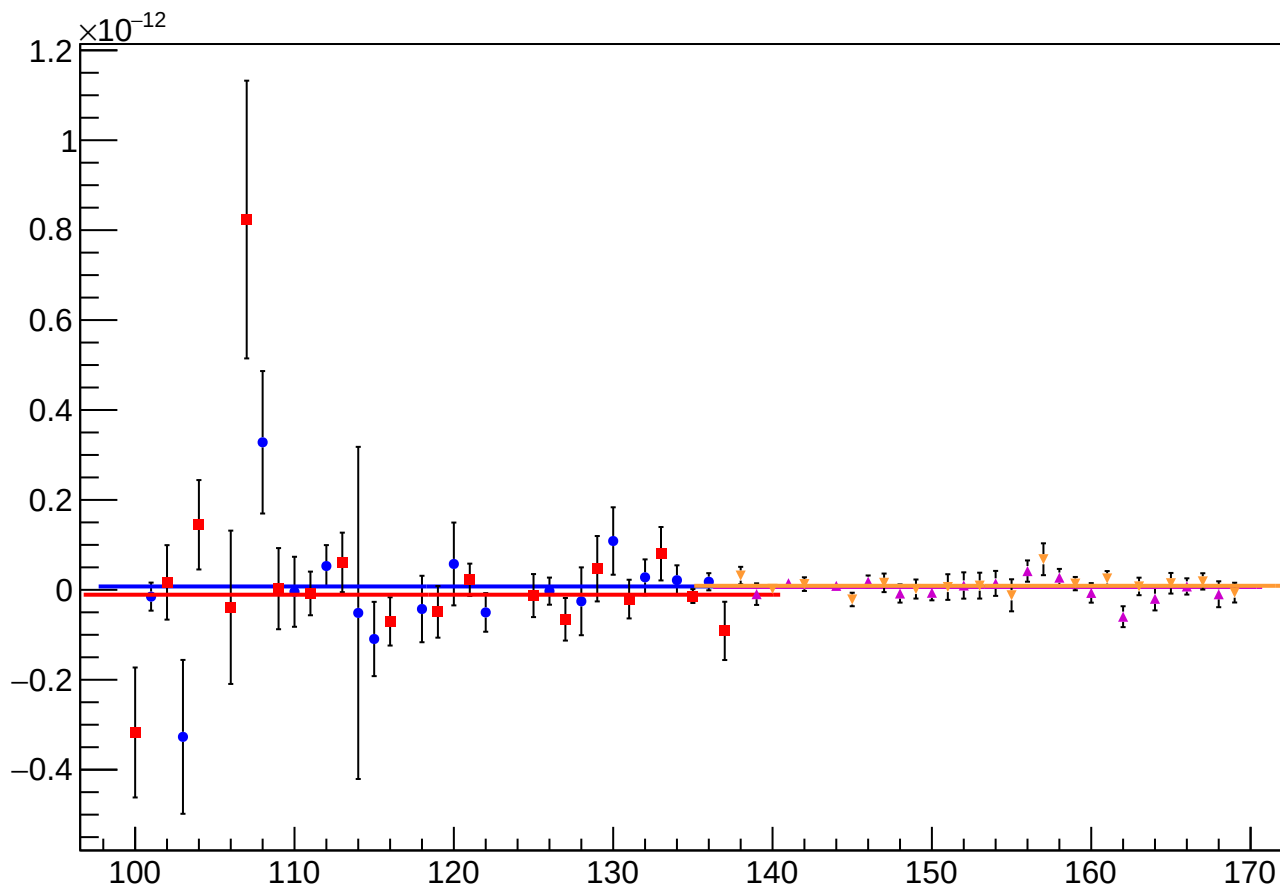
Right: 1415.461+/-0.270 χ^2/NDF : 1641967.9/33

In: 1306.037+/-0.211 χ^2/NDF :876769.6/30

Out: 1316.302+/-0.211 χ^2/NDF :1016490.8/33

All: 1311.155+/-0.149 χ^2/NDF : 1894443.7/64

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 11.2/15

Right Out: -0.000+/-0.000 χ^2/NDF : 24.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 16.4/14

Left: 0.000+/-0.000 χ^2/NDF : 27.8/30

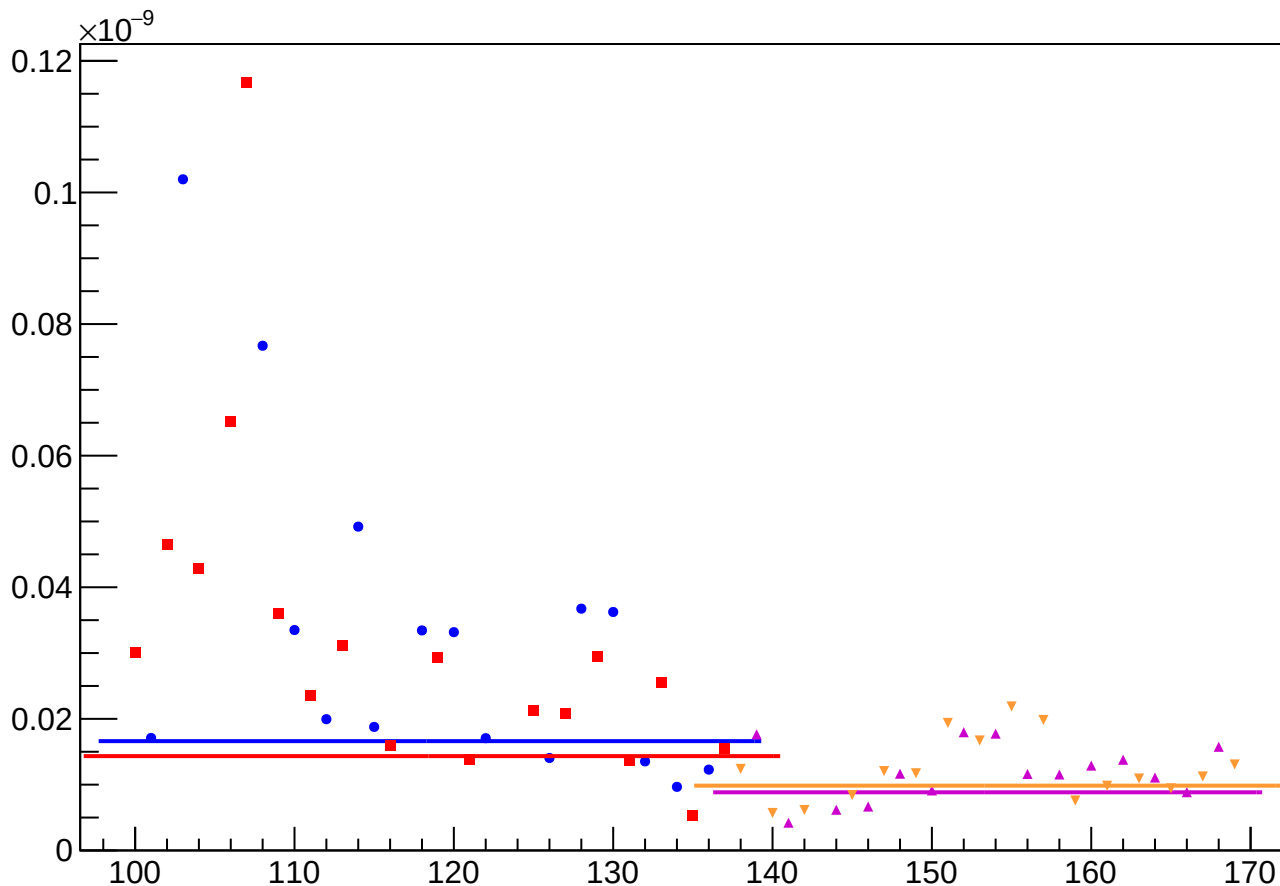
Right: -0.000+/-0.000 χ^2/NDF : 42.4/33

In: 0.000+/-0.000 χ^2/NDF : 33.3/30

Out: 0.000+/-0.000 χ^2/NDF : 38.1/33

All: 0.000+/-0.000 χ^2/NDF : 71.5/64

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1573068.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :1323320.5/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2258014.9/17

Left In: 0.000+/-0.000 χ^2/NDF :1726697.3/14

Left: 0.000+/-0.000 χ^2/NDF : 3098877.6/30

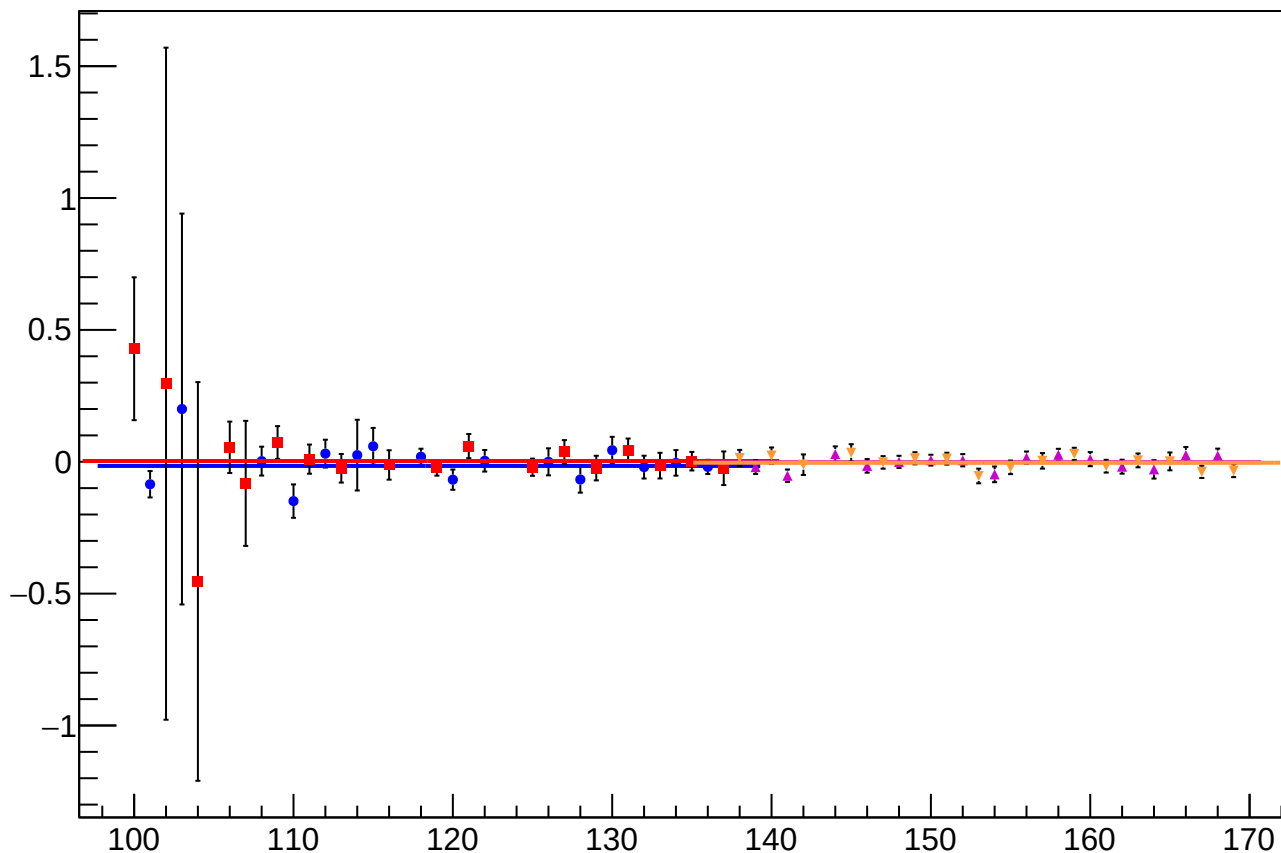
Right: 0.000+/-0.000 χ^2/NDF : 3876075.8/33

In: 0.000+/-0.000 χ^2/NDF :4174717.1/30

Out: 0.000+/-0.000 χ^2/NDF :3881828.2/33

All: 0.000+/-0.000 χ^2/NDF : 8077390.8/64

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 14.6/15

Left Out: -0.004 ± 0.007 χ^2/NDF : 13.5/15

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.002 ± 0.007 χ^2/NDF : 14.2/14

Left: -0.003 ± 0.005 χ^2/NDF : 27.7/30

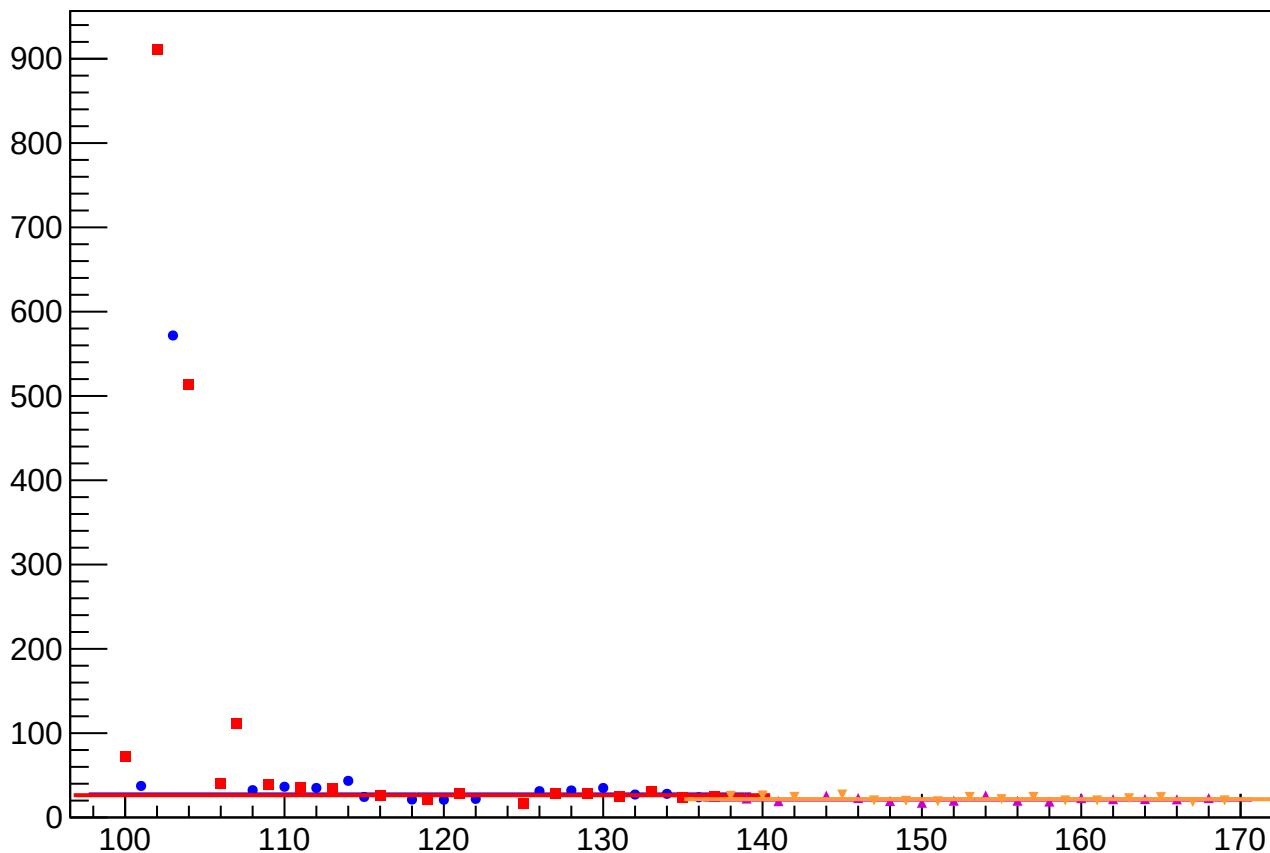
Right: -0.007 ± 0.008 χ^2/NDF : 25.8/33

In: -0.005 ± 0.006 χ^2/NDF : 29.9/30

Out: -0.002 ± 0.006 χ^2/NDF : 23.6/33

All: -0.004 ± 0.004 χ^2/NDF : 53.7/64

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.305+/-0.008 χ^2/NDF : 1568329.0/15

Left Out: 21.682+/-0.005 χ^2/NDF : 300064.6/15

Right Out: 26.400+/-0.009 χ^2/NDF : 2614691.8/17

Left In: 21.108+/-0.005 χ^2/NDF : 261695.2/14

Left: 21.392+/-0.003 χ^2/NDF : 569302.5/30

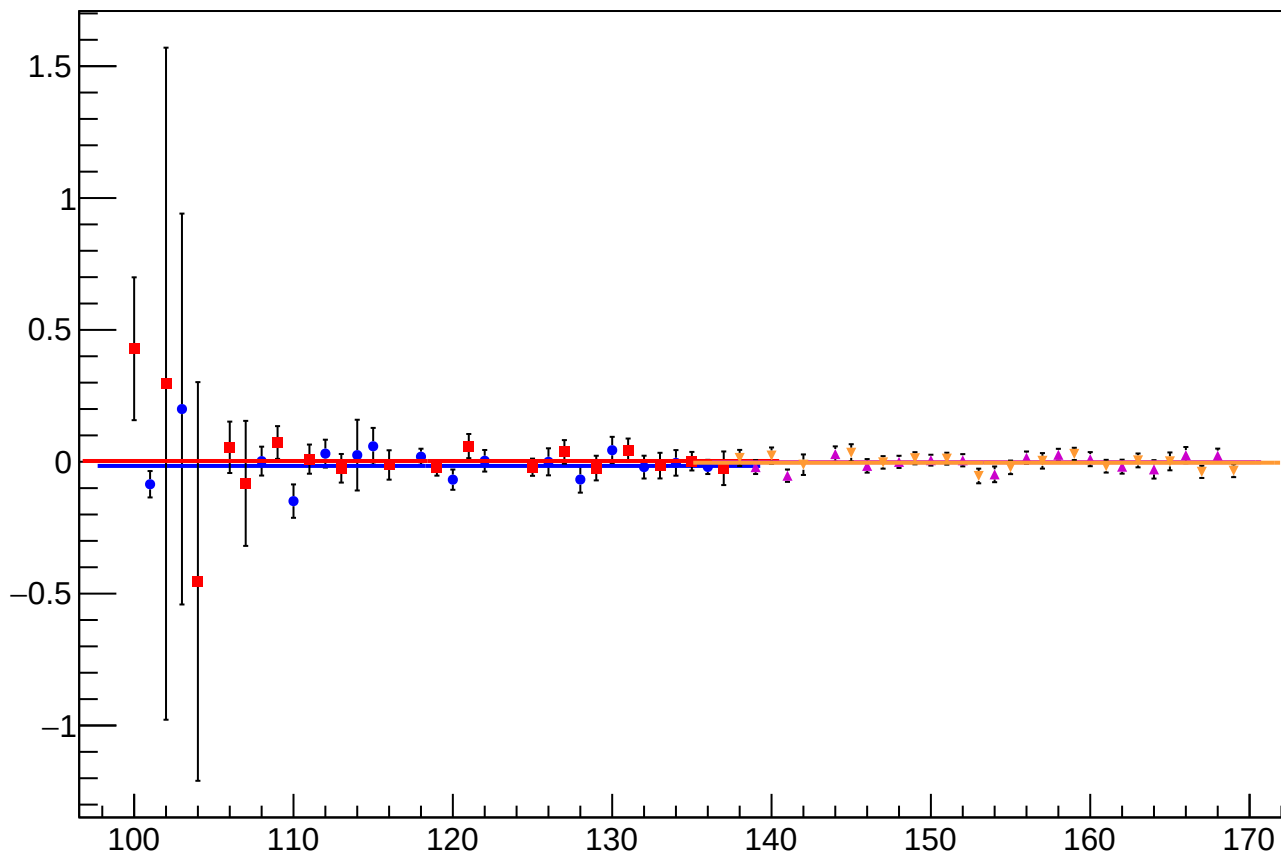
Right: 26.870+/-0.006 χ^2/NDF : 4188911.1/33

In: 22.627+/-0.004 χ^2/NDF : 2263956.9/30

Out: 22.785+/-0.004 χ^2/NDF : 3150735.0/33

All: 22.705+/-0.003 χ^2/NDF : 5415445.1/64

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 14.6/15

Left Out: -0.004 ± 0.007 χ^2/NDF : 13.5/15

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.002 ± 0.007 χ^2/NDF : 14.2/14

Left: -0.003 ± 0.005 χ^2/NDF : 27.7/30

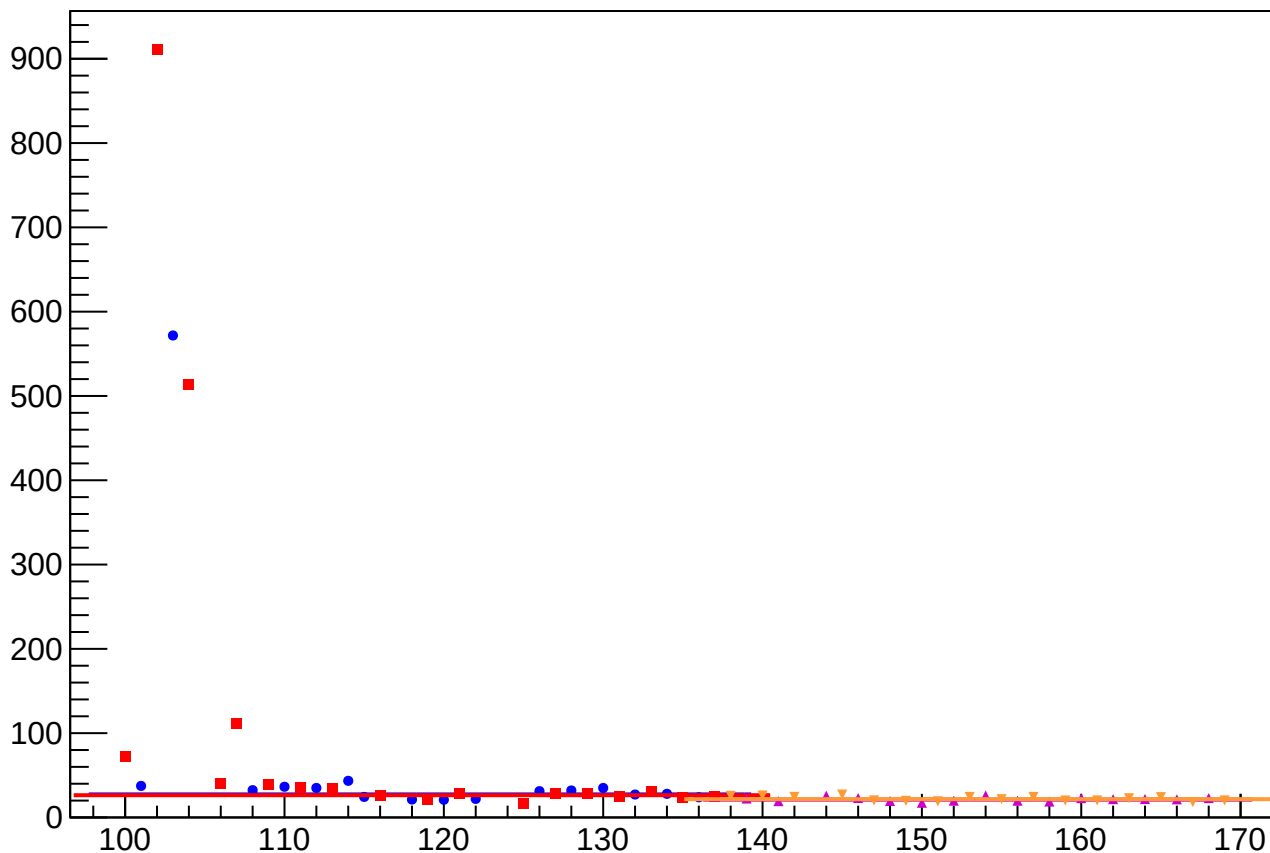
Right: -0.007 ± 0.008 χ^2/NDF : 25.8/33

In: -0.005 ± 0.006 χ^2/NDF : 29.9/30

Out: -0.002 ± 0.006 χ^2/NDF : 23.6/33

All: -0.004 ± 0.004 χ^2/NDF : 53.7/64

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.305+/-0.008 χ^2/NDF : 1568329.0/15

Left Out: 21.682+/-0.005 χ^2/NDF :300064.6/15

Right Out: 26.400+/-0.009 χ^2/NDF : 2614691.8/17

Left In: 21.108+/-0.005 χ^2/NDF :261695.2/14

Left: 21.392+/-0.003 χ^2/NDF : 569302.5/30

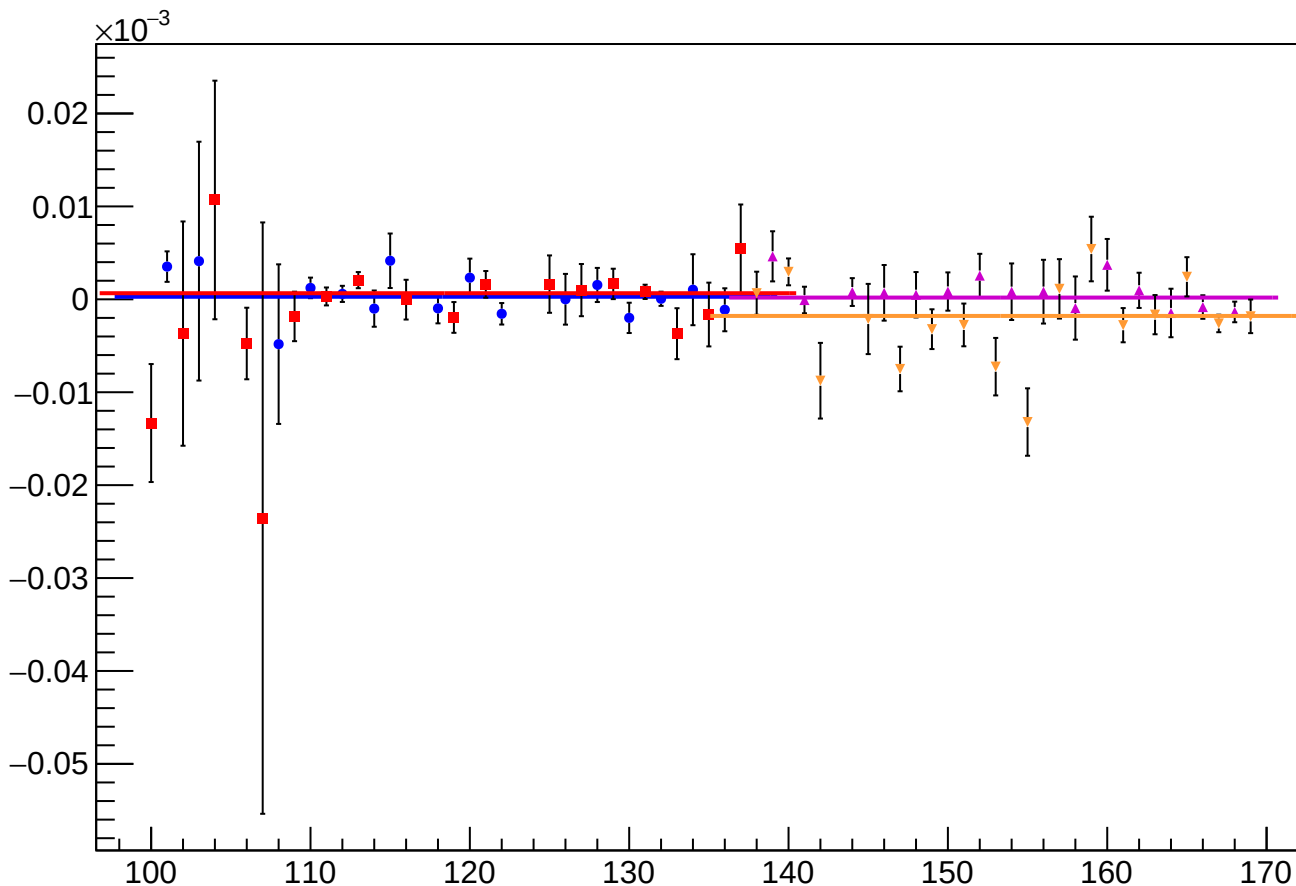
Right: 26.870+/-0.006 χ^2/NDF : 4188911.1/33

In: 22.627+/-0.004 χ^2/NDF :2263956.9/30

Out: 22.785+/-0.004 χ^2/NDF :3150735.0/33

All: 22.705+/-0.003 χ^2/NDF : 5415445.1/64

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.4/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 44.2/15

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 19.3/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF: 9.0/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 61.0/30

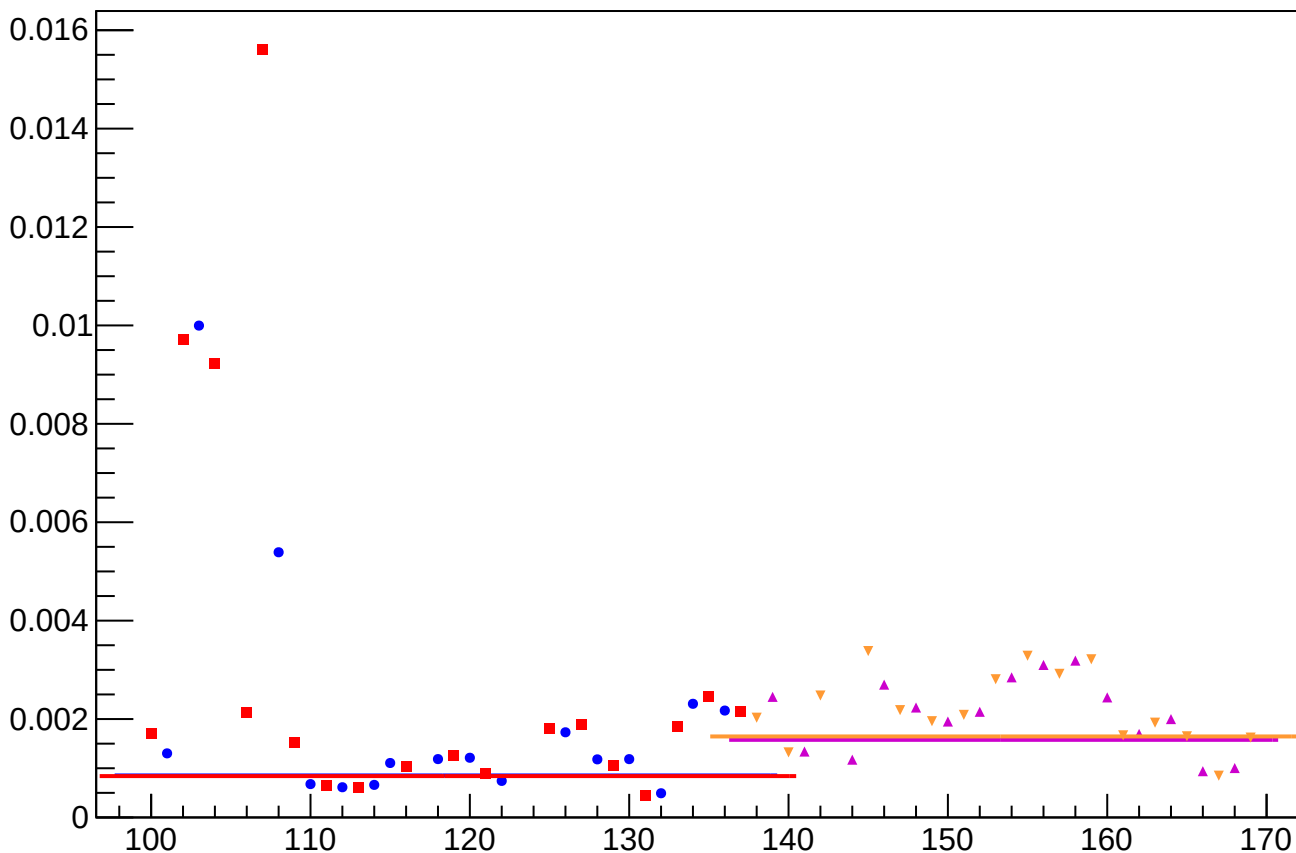
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 34.2/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF: 23.5/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 77.9/33

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 102.9/64

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 3863719.0/15

Left Out: 0.002+/-0.000 χ^2/NDF :3750518.8/15

Right Out: 0.001+/-0.000 χ^2/NDF : 5039455.2/17

Left In: 0.002+/-0.000 χ^2/NDF :3502485.6/14

Left: 0.002+/-0.000 χ^2/NDF : 7271810.5/30

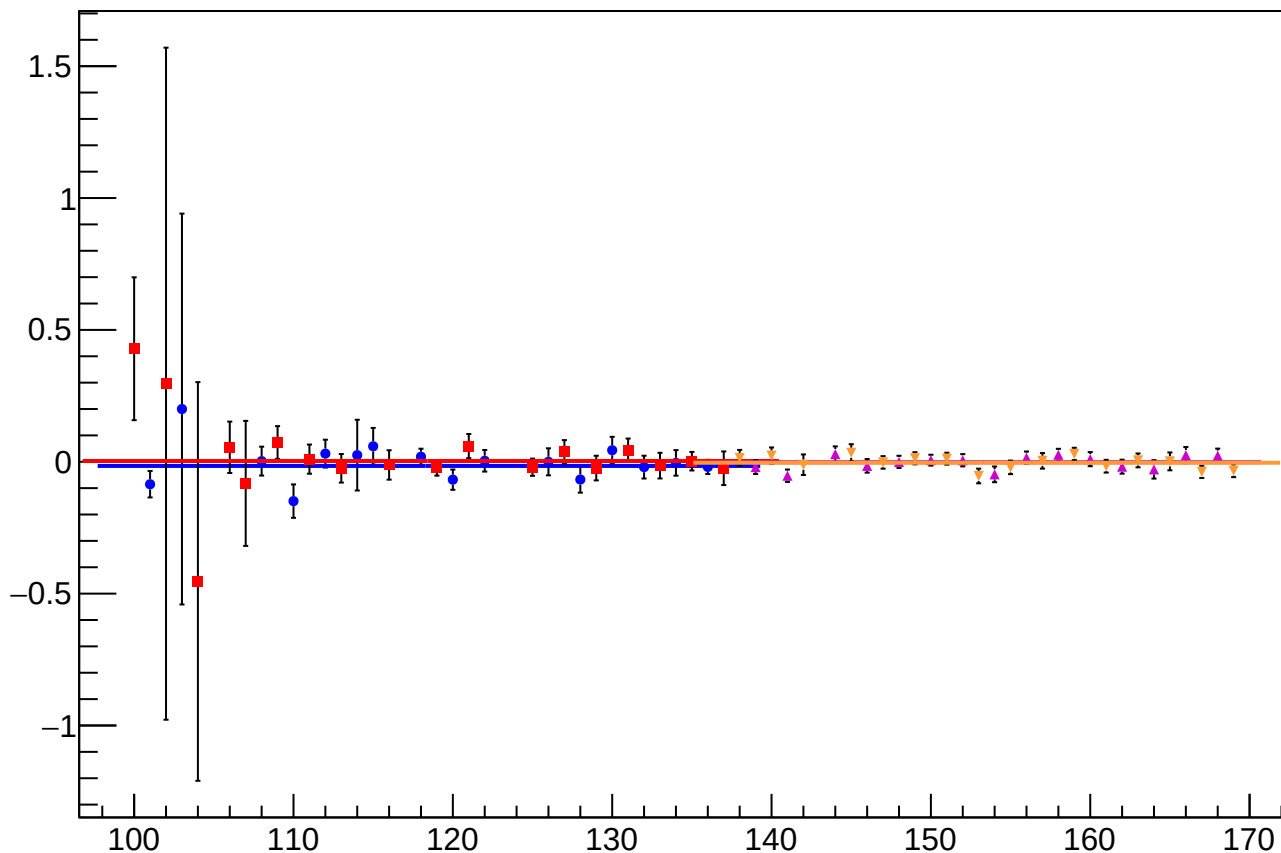
Right: 0.001+/-0.000 χ^2/NDF : 8904244.0/33

In: 0.001+/-0.000 χ^2/NDF :10062299.4/30

Out: 0.001+/-0.000 χ^2/NDF :11917561.6/33

All: 0.001+/-0.000 χ^2/NDF : 21991265.9/64

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 14.6/15

Left Out: -0.004 ± 0.007 χ^2/NDF : 13.5/15

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.002 ± 0.007 χ^2/NDF : 14.2/14

Left: -0.003 ± 0.005 χ^2/NDF : 27.7/30

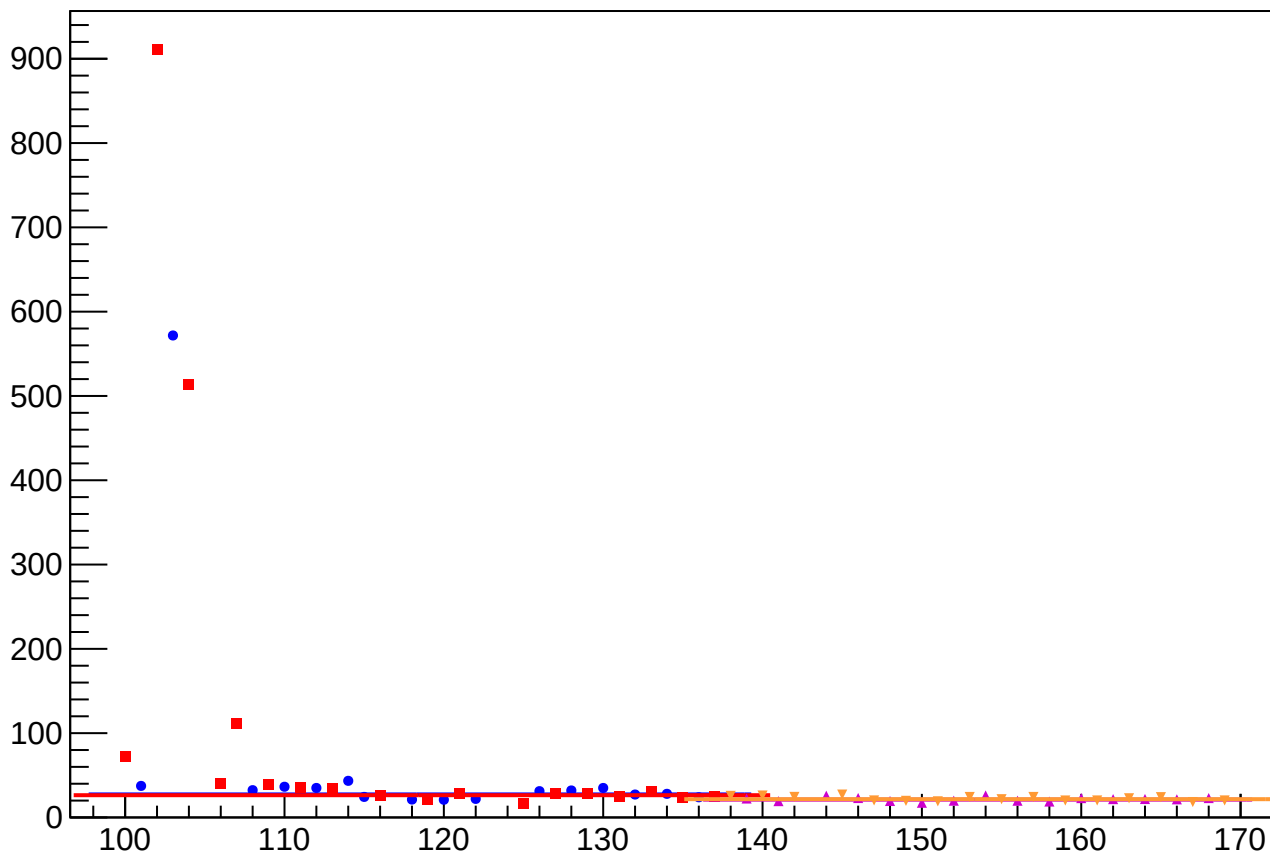
Right: -0.007 ± 0.008 χ^2/NDF : 25.7/33

In: -0.005 ± 0.006 χ^2/NDF : 29.9/30

Out: -0.002 ± 0.006 χ^2/NDF : 23.6/33

All: -0.004 ± 0.004 χ^2/NDF : 53.7/64

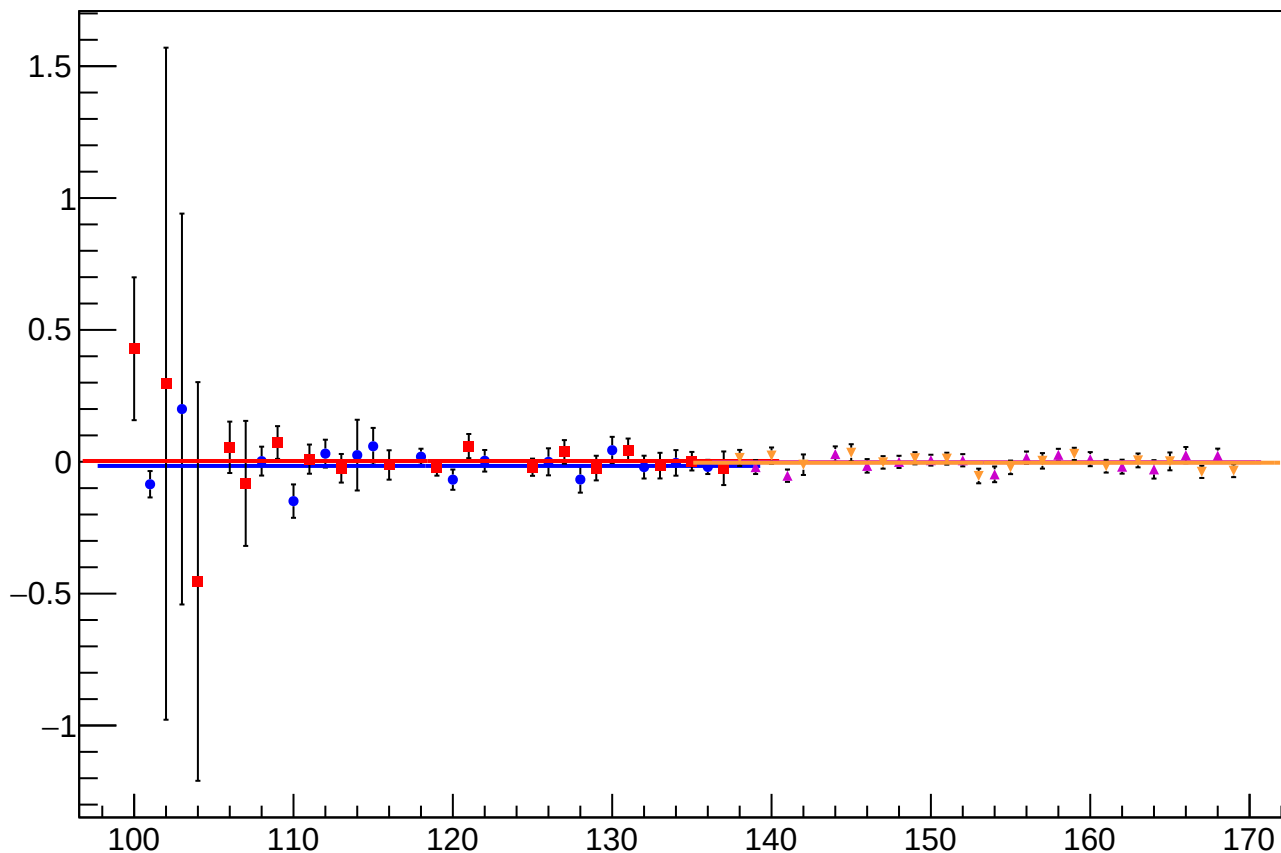
asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.305+/-0.008 χ^2 /NDF: 1568325.9/15
 Left Out: 21.682+/-0.005 χ^2 /NDF:300045.9/15
 Right Out: 26.400+/-0.009 χ^2 /NDF: 2614710.8/17
 Left In: 21.108+/-0.005 χ^2 /NDF:261711.6/14

Left: 21.392+/-0.003 χ^2 /NDF: 569297.7/30
 Right: 26.870+/-0.006 χ^2 /NDF: 4188927.1/33
 In: 22.627+/-0.004 χ^2 /NDF:2263969.4/30
 Out: 22.785+/-0.004 χ^2 /NDF:3150744.9/33
 All: 22.705+/-0.003 χ^2 /NDF: 5415466.7/64

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 14.6/15

Left Out: -0.004 ± 0.007 χ^2/NDF : 13.5/15

Right Out: 0.003 ± 0.012 χ^2/NDF : 9.9/17

Left In: -0.002 ± 0.007 χ^2/NDF : 14.2/14

Left: -0.003 ± 0.005 χ^2/NDF : 27.7/30

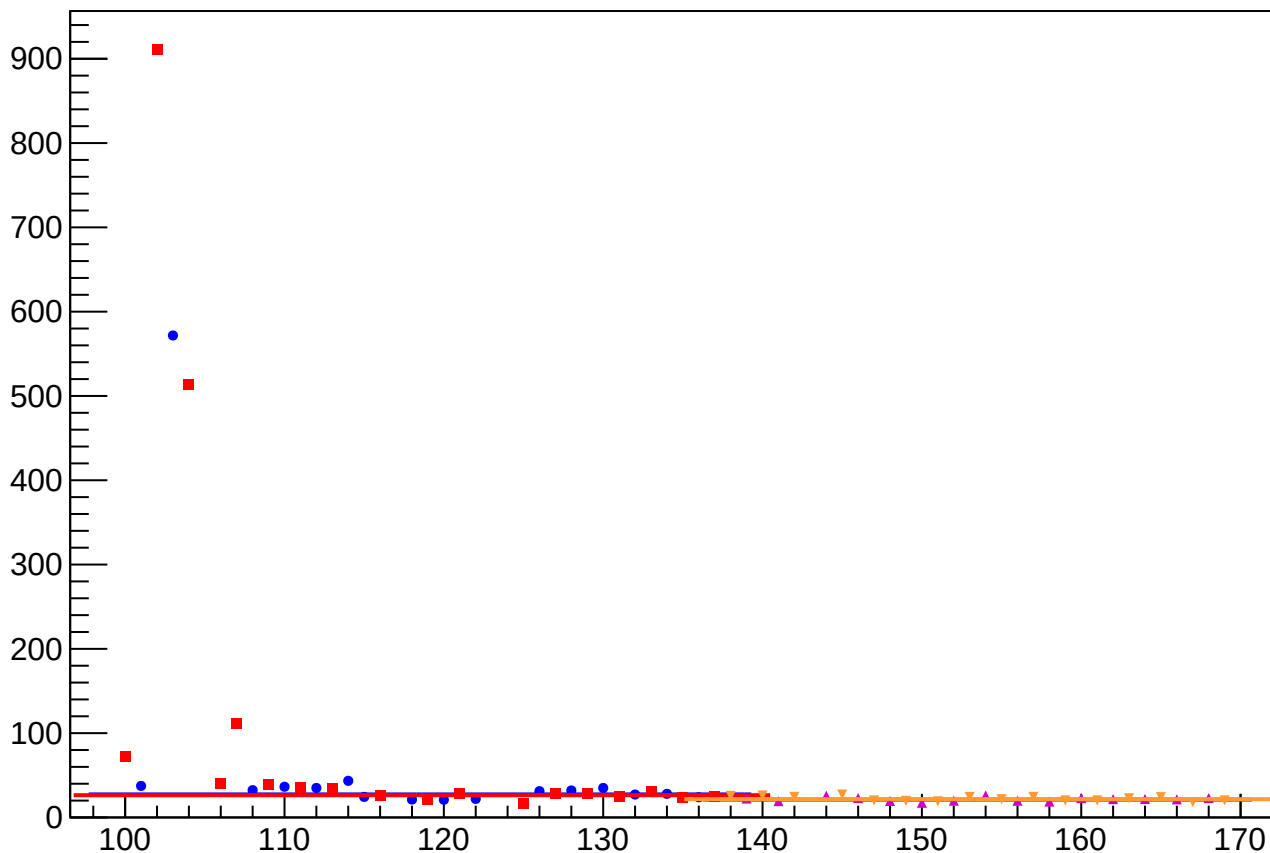
Right: -0.007 ± 0.008 χ^2/NDF : 25.7/33

In: -0.005 ± 0.006 χ^2/NDF : 29.9/30

Out: -0.002 ± 0.006 χ^2/NDF : 23.6/33

All: -0.004 ± 0.004 χ^2/NDF : 53.7/64

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.305 $\pm$ 0.008 χ^2 /NDF: 1568325.9/15

Left Out: 21.682 $\pm$ 0.005 χ^2 /NDF: 300045.9/15

Right Out: 26.400 $\pm$ 0.009 χ^2 /NDF: 2614710.8/17

Left In: 21.108 $\pm$ 0.005 χ^2 /NDF: 261711.6/14

Left: 21.392 $\pm$ 0.003 χ^2 /NDF: 569297.7/30

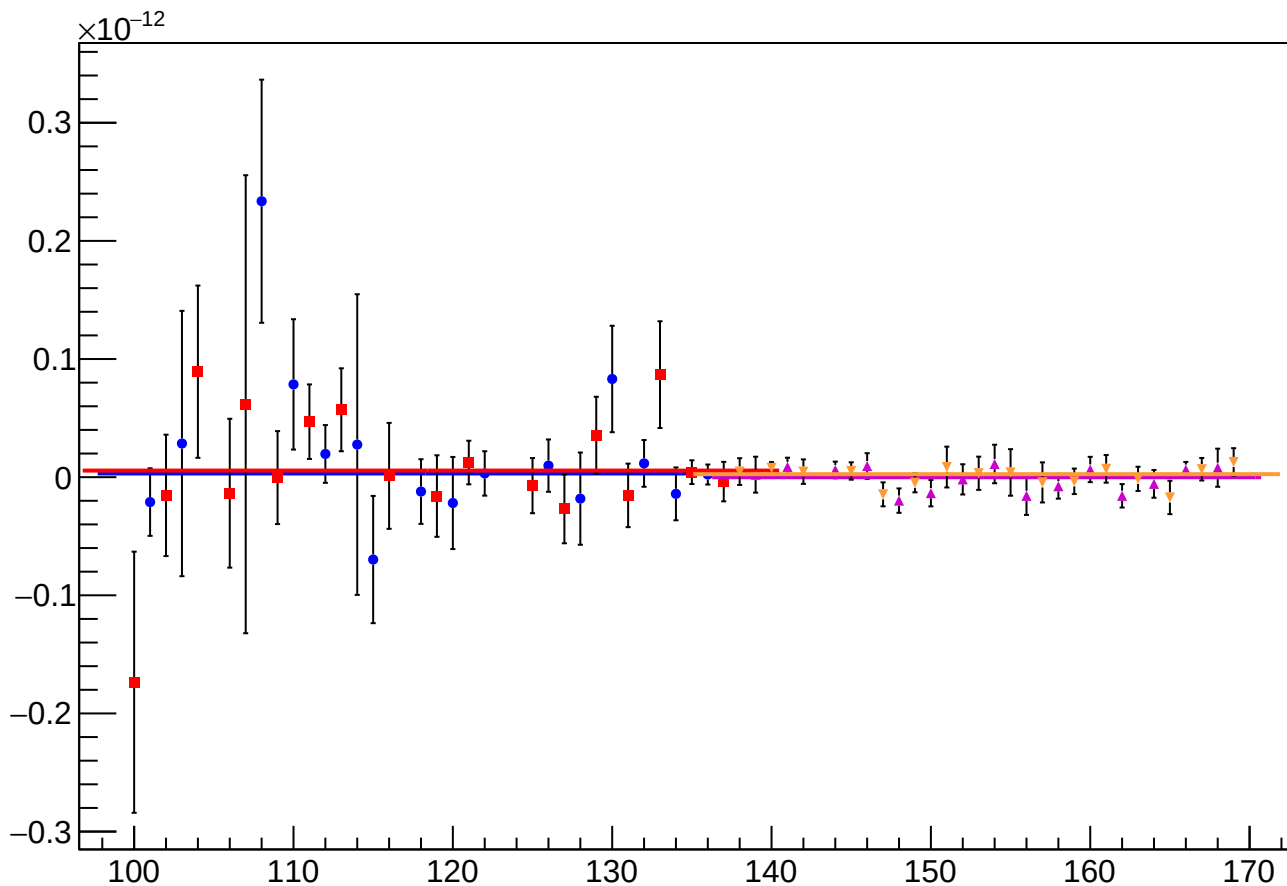
Right: 26.870 $\pm$ 0.006 χ^2 /NDF: 4188927.1/33

In: 22.627 $\pm$ 0.004 χ^2 /NDF: 2263969.4/30

Out: 22.785 $\pm$ 0.004 χ^2 /NDF: 3150744.9/33

All: 22.705 $\pm$ 0.003 χ^2 /NDF: 5415466.7/64

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :8.9/15

Right Out: 0.000+/-0.000 χ^2/NDF : 15.3/17

Left In: -0.000+/-0.000 χ^2/NDF :14.2/14

Left: 0.000+/-0.000 χ^2/NDF : 23.6/30

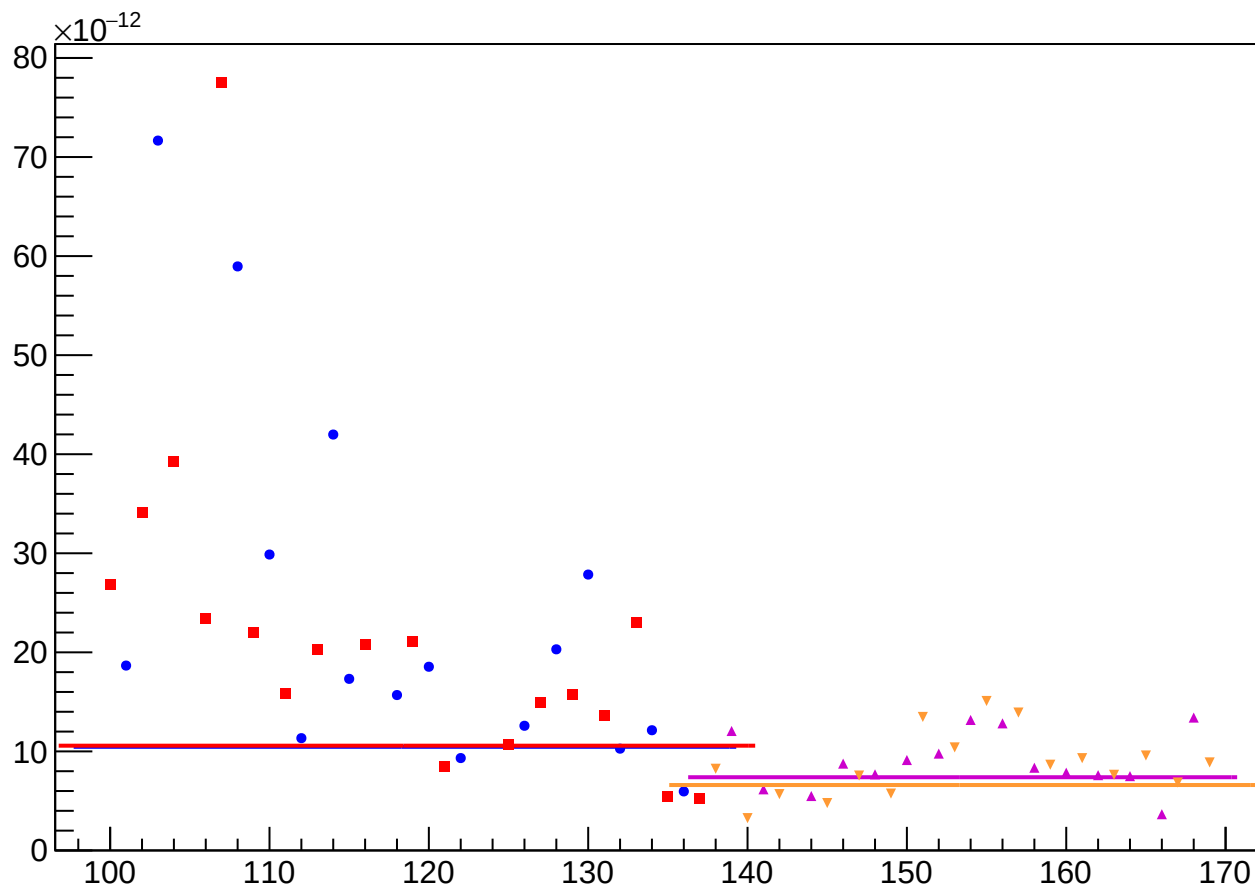
Right: 0.000+/-0.000 χ^2/NDF : 30.4/33

In: 0.000+/-0.000 χ^2/NDF :29.5/30

Out: 0.000+/-0.000 χ^2/NDF :24.3/33

All: 0.000+/-0.000 χ^2/NDF : 54.4/64

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2794895.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2714742.4/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2771384.1/17

Left In: 0.000+/-0.000 χ^2/NDF : 1955630.9/14

Left: 0.000+/-0.000 χ^2/NDF : 4765201.0/30

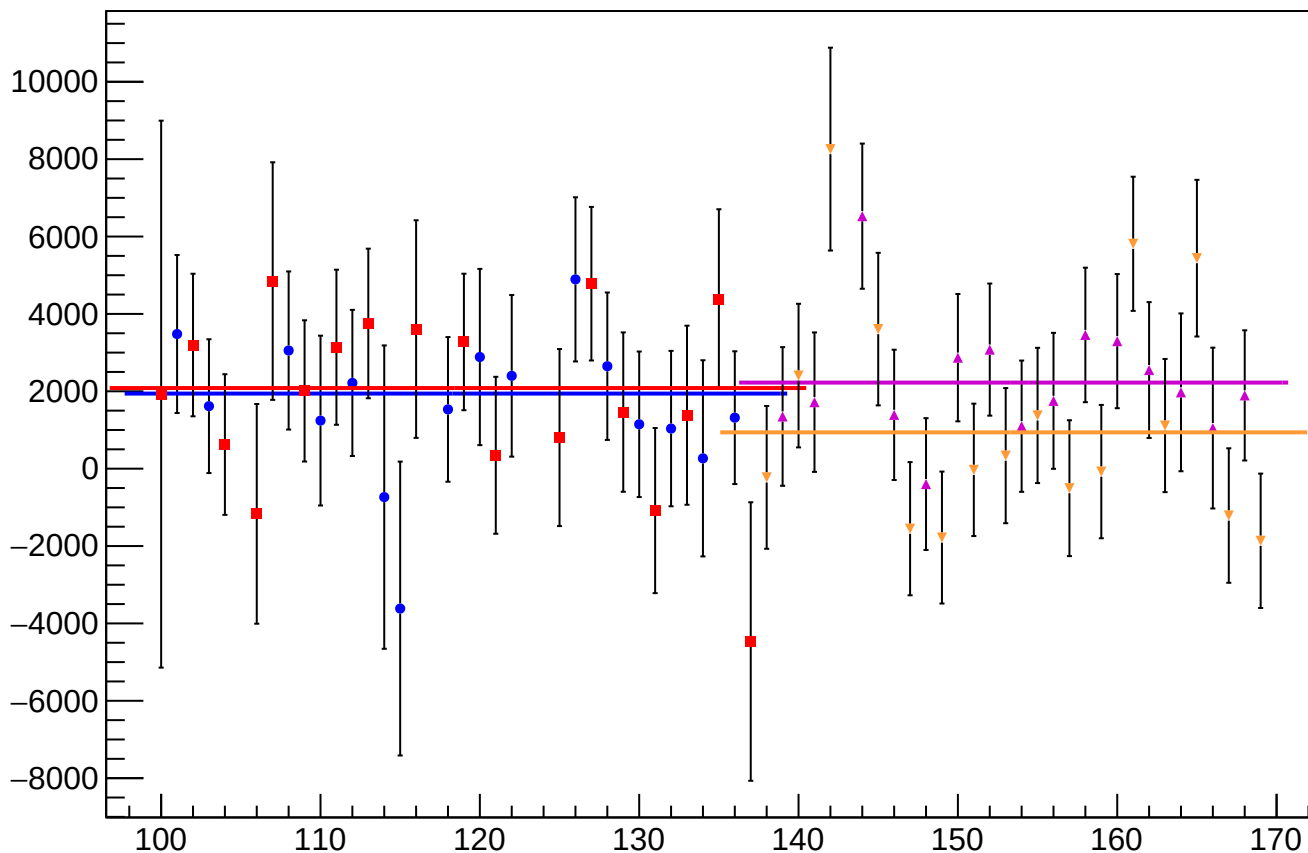
Right: 0.000+/-0.000 χ^2/NDF : 5566631.8/33

In: 0.000+/-0.000 χ^2/NDF : 5222753.5/30

Out: 0.000+/-0.000 χ^2/NDF : 6218189.6/33

All: 0.000+/-0.000 χ^2/NDF : 11548376.8/64

reg_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1940.976+/-522.174 χ^2/NDF : 6.9/15

Left Out: 939.342+/-451.647 χ^2/NDF : 33.8/15

Right Out: 2083.952+/-519.583 χ^2/NDF : 14.5/17

Left In: 2225.123+/-456.564 χ^2/NDF : 10.4/14

Left: 1575.271+/-321.087 χ^2/NDF : 48.2/30

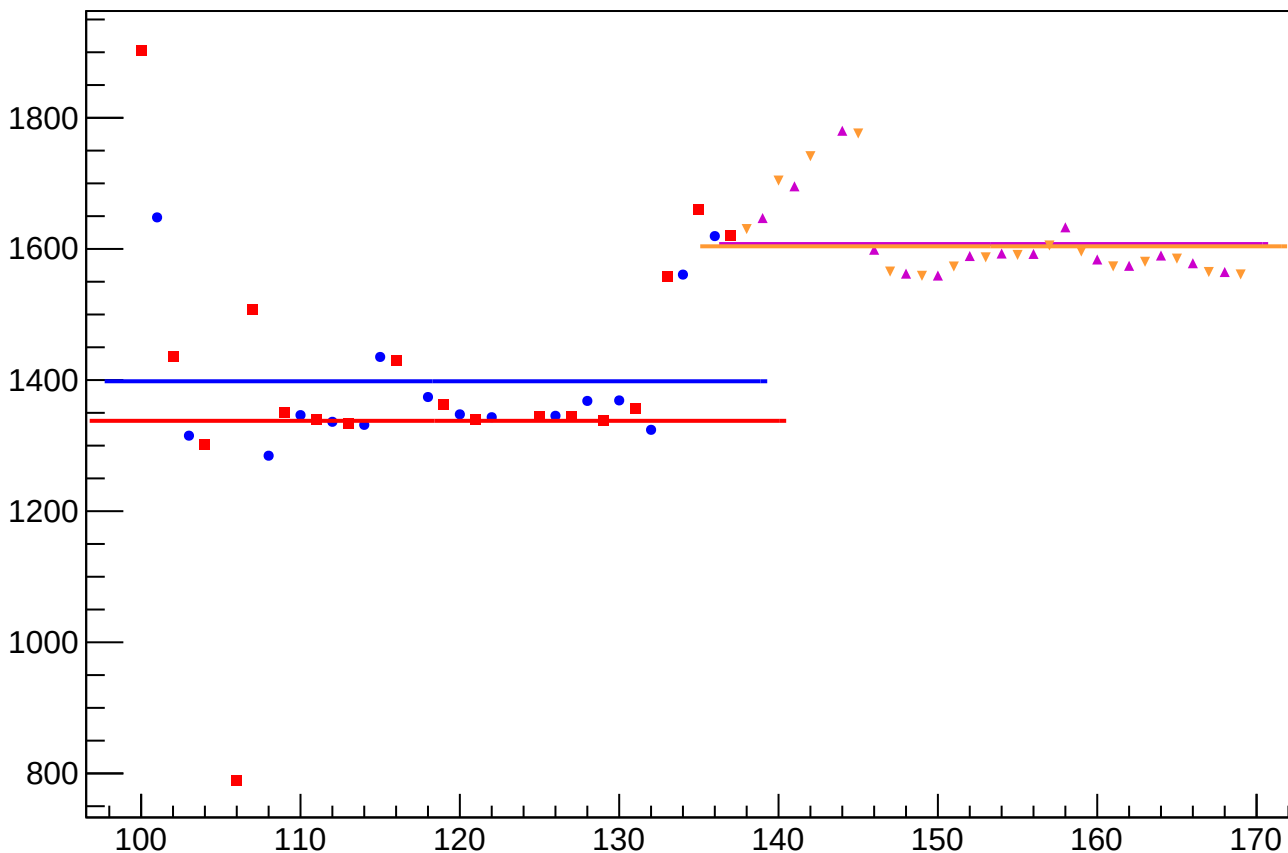
Right: 2012.819+/-368.313 χ^2/NDF : 21.4/33

In: 2102.012+/-343.710 χ^2/NDF : 17.5/30

Out: 1431.972+/-340.869 χ^2/NDF : 51.0/33

All: 1764.211+/-242.029 χ^2/NDF : 70.4/64

reg_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1398.161+/-0.369 χ^2/NDF : 93923.6/15

Left Out: 1604.003+/-0.319 χ^2/NDF : 33771.6/15

Right Out: 1337.819+/-0.356 χ^2/NDF : 317763.3/17

Left In: 1607.452+/-0.323 χ^2/NDF : 29742.9/14

Left: 1605.709+/-0.227 χ^2/NDF : 63572.1/30

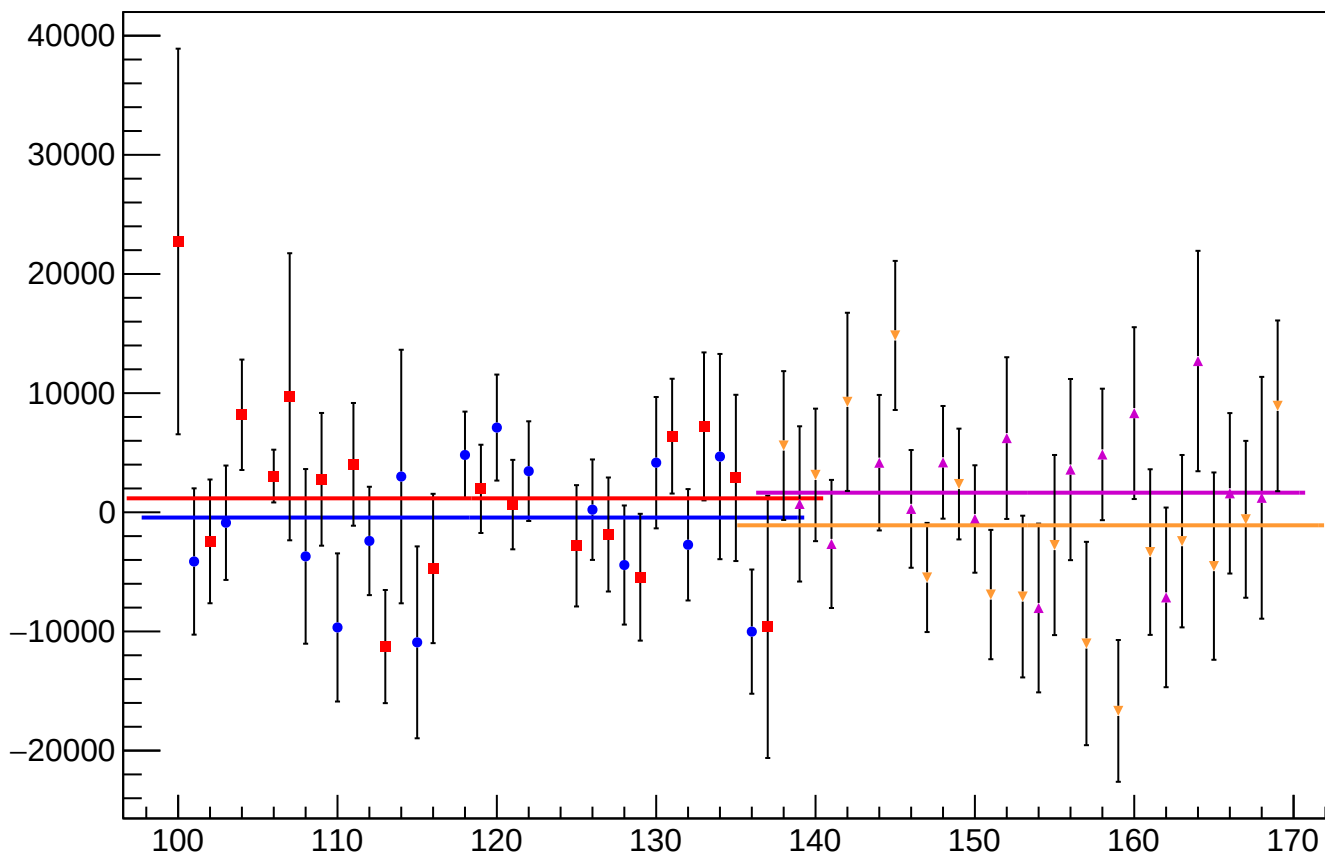
Right: 1366.881+/-0.256 χ^2/NDF : 425531.4/33

In: 1516.773+/-0.243 χ^2/NDF : 305754.3/30

Out: 1485.275+/-0.238 χ^2/NDF : 661398.4/33

All: 1500.674+/-0.170 χ^2/NDF : 975738.0/64

asym_usl_atl2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -441.138+/-1295.916 χ^2/NDF : 15.9/15

Left Out: -1092.522+/-1563.598 χ^2/NDF : 24.1/15

Right Out: 1171.548+/-1119.890 χ^2/NDF : 19.7/17

Left In: 1644.648+/-1589.009 χ^2/NDF : 7.8/14

Left: 254.002+/-1114.506 χ^2/NDF : 33.4/30

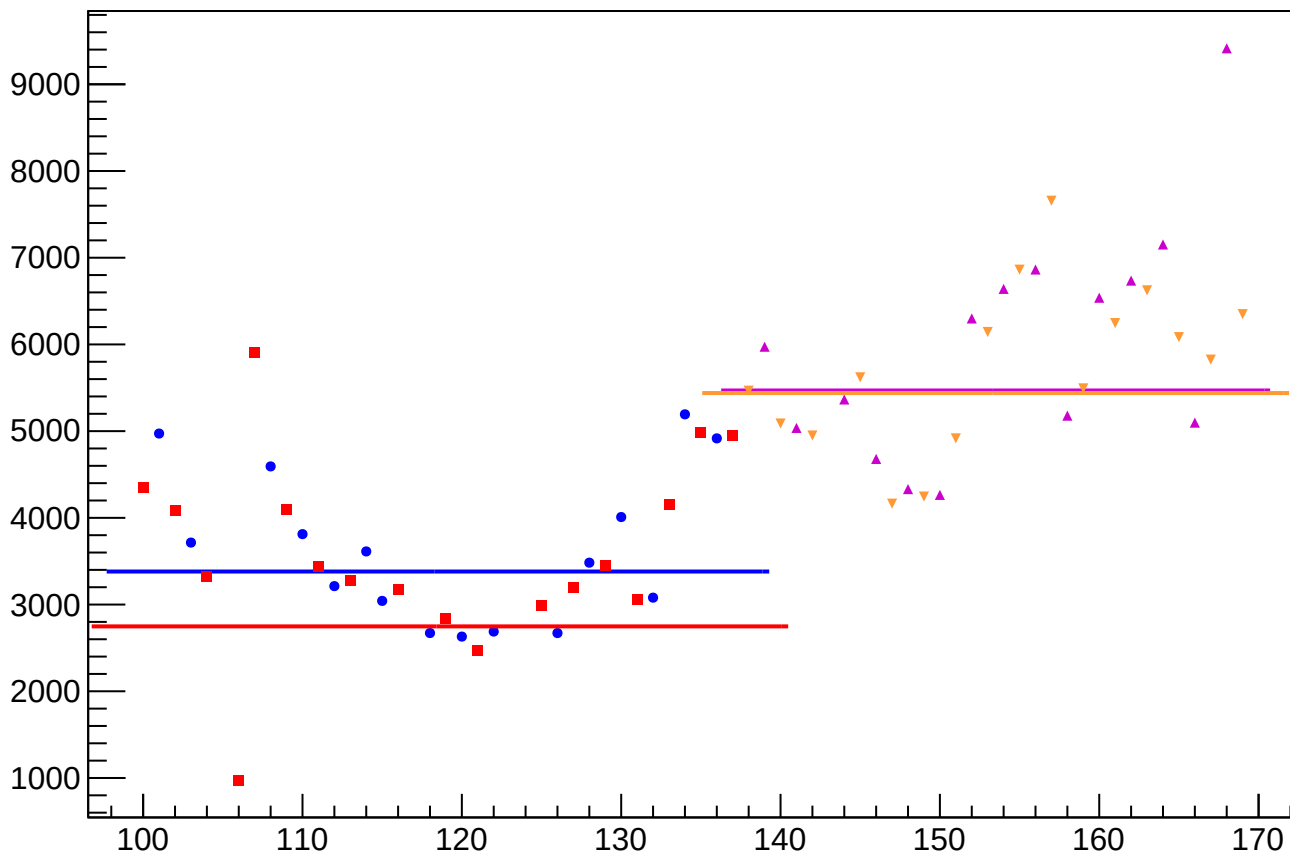
Right: 482.092+/-847.335 χ^2/NDF : 36.5/33

In: 392.015+/-1004.278 χ^2/NDF : 24.8/30

Out: 403.910+/-910.455 χ^2/NDF : 45.1/33

All: 398.544+/-674.526 χ^2/NDF : 69.9/64

asym_usl_atl2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 3381.117+/-0.916 χ^2/NDF : 757146.6/15

Left Out: 5439.310+/-1.106 χ^2/NDF : 684567.8/15

Right Out: 2748.372+/-0.792 χ^2/NDF : 2264563.8/17

Left In: 5468.911+/-1.124 χ^2/NDF : 967793.2/14

Left: 5453.872+/-0.788 χ^2/NDF : 1652713.6/30

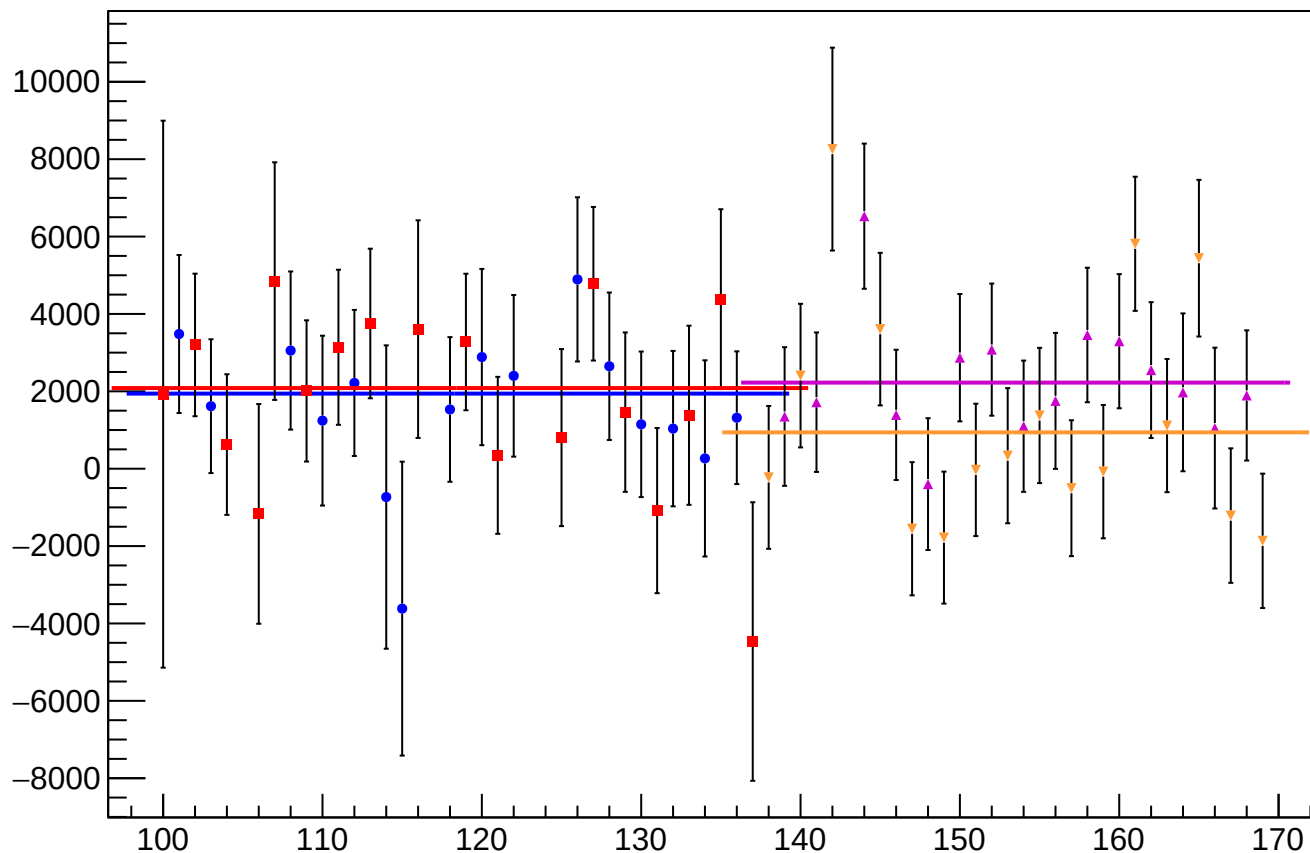
Right: 3018.883+/-0.599 χ^2/NDF : 3294667.2/33

In: 4215.072+/-0.710 χ^2/NDF : 3798451.6/30

Out: 3660.741+/-0.644 χ^2/NDF : 6864332.3/33

All: 3910.809+/-0.477 χ^2/NDF : 10997240.8/66

cor_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1941.031 ± 522.174 $\chi^2/\text{NDF}: 6.9/15$

Left Out: 939.356 ± 451.647 $\chi^2/\text{NDF}: 33.8/15$

Right Out: 2084.166 ± 519.587 $\chi^2/\text{NDF}: 14.5/17$

Left In: 2225.241 ± 456.564 $\chi^2/\text{NDF}: 10.4/14$

Left: 1575.336 ± 321.087 $\chi^2/\text{NDF}: 48.2/30$

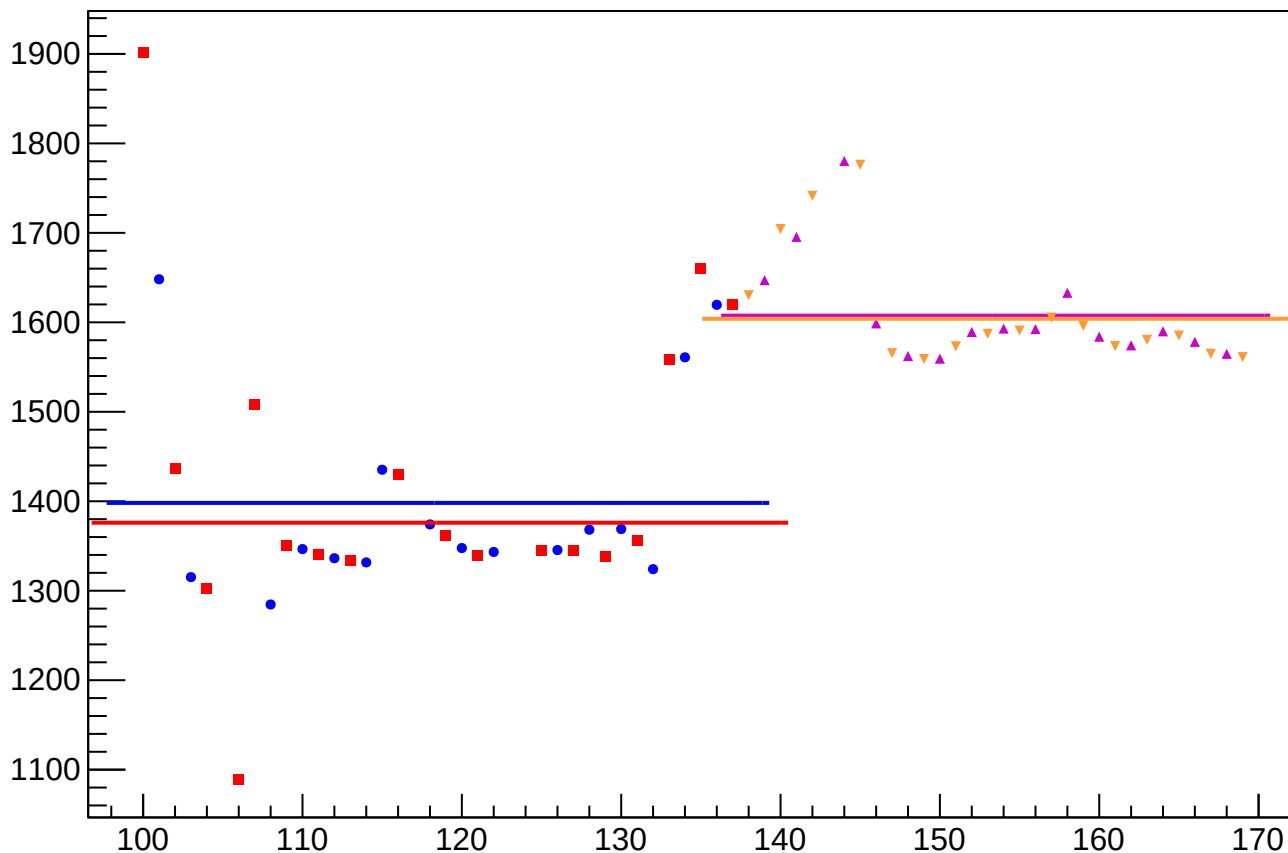
Right: 2012.954 ± 368.315 $\chi^2/\text{NDF}: 21.4/33$

In: 2102.103 ± 343.710 $\chi^2/\text{NDF}: 17.5/30$

Out: 1432.069 ± 340.870 $\chi^2/\text{NDF}: 51.1/33$

All: 1764.306 ± 242.029 $\chi^2/\text{NDF}: 70.5/64$

cor_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1398.161+/-0.369 χ^2/NDF : 93923.6/15

Left Out: 1604.003+/-0.319 χ^2/NDF : 33771.6/15

Right Out: 1376.021+/-0.363 χ^2/NDF : 114033.6/17

Left In: 1607.452+/-0.323 χ^2/NDF : 29742.8/14

Left: 1605.709+/-0.227 χ^2/NDF : 63572.1/30

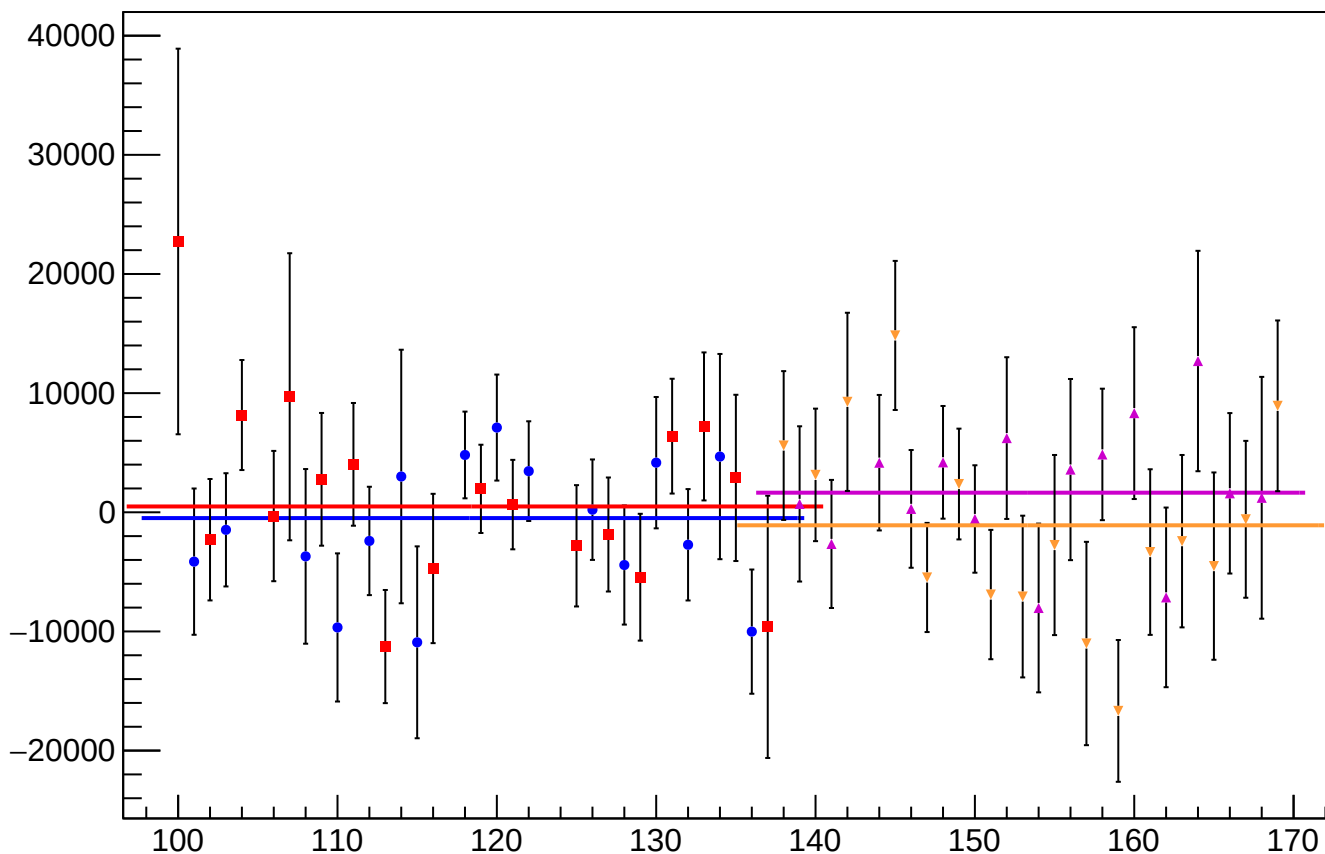
Right: 1386.888+/-0.259 χ^2/NDF : 209787.8/33

In: 1516.773+/-0.243 χ^2/NDF : 305754.5/30

Out: 1504.384+/-0.240 χ^2/NDF : 370482.7/33

All: 1510.491+/-0.171 χ^2/NDF : 677554.9/64

asym_usl_atl2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -486.563+/-1294.930 χ^2/NDF : 15.9/15

Left Out: -1092.556+/-1563.599 χ^2/NDF : 24.1/15

Right Out: 488.594+/-1261.315 χ^2/NDF : 18.7/17

Left In: 1644.765+/-1589.008 χ^2/NDF : 7.8/14

Left: 254.044+/-1114.506 χ^2/NDF : 33.4/30

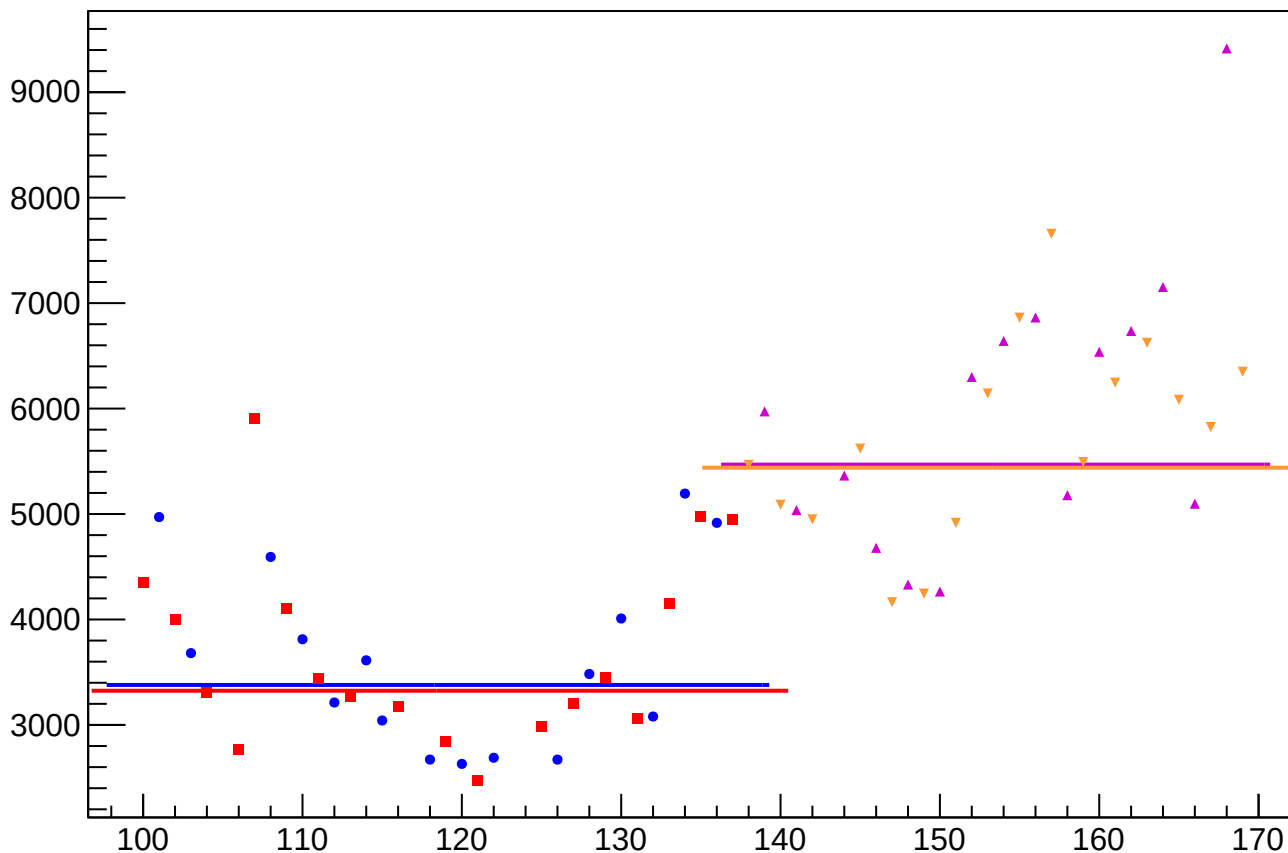
Right: 13.837+/-903.535 χ^2/NDF : 35.0/33

In: 364.004+/-1003.819 χ^2/NDF : 24.9/30

Out: -134.703+/-981.717 χ^2/NDF : 43.4/33

All: 109.100+/-701.862 χ^2/NDF : 68.4/64

asym_usl_atl2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 3379.110+/-0.916 χ^2/NDF : 755339.9/15

Left Out: 5439.312+/-1.106 χ^2/NDF : 684564.6/15

Right Out: 3324.449+/-0.892 χ^2/NDF : 543813.3/17

Left In: 5468.907+/-1.124 χ^2/NDF : 967802.6/14

Left: 5453.871+/-0.788 χ^2/NDF : 1652719.7/30

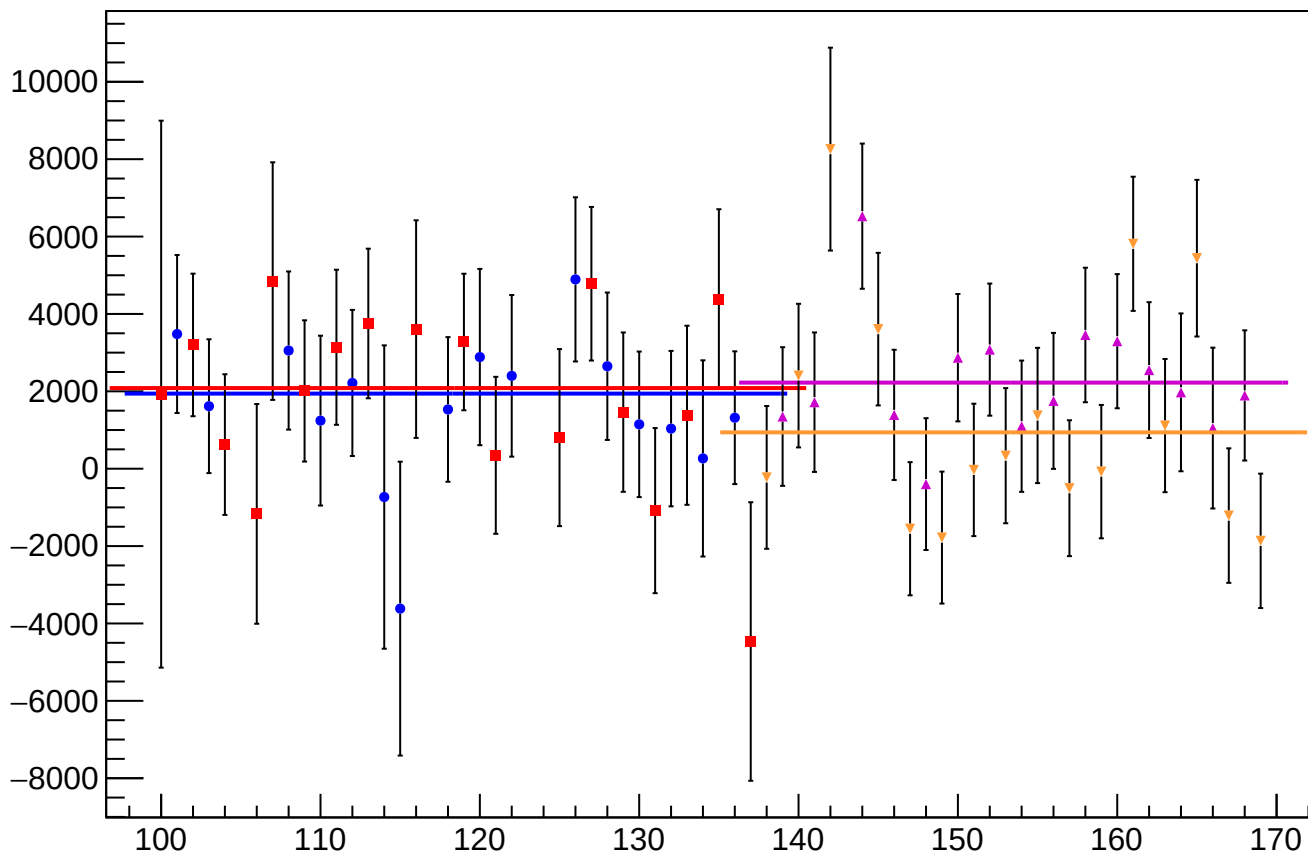
Right: 3351.061+/-0.639 χ^2/NDF : 1300981.9/33

In: 4213.103+/-0.710 χ^2/NDF : 3801898.1/30

Out: 4158.139+/-0.694 χ^2/NDF : 3444885.9/33

All: 4185.009+/-0.496 χ^2/NDF : 7249848.8/64

eigen_cor_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1941.031+/-522.174 χ^2/NDF : 6.9/15

Left Out: 939.356+/-451.647 χ^2/NDF : 33.8/15

Right Out: 2084.166+/-519.587 χ^2/NDF : 14.5/17

Left In: 2225.241+/-456.564 χ^2/NDF : 10.4/14

Left: 1575.336+/-321.087 χ^2/NDF : 48.2/30

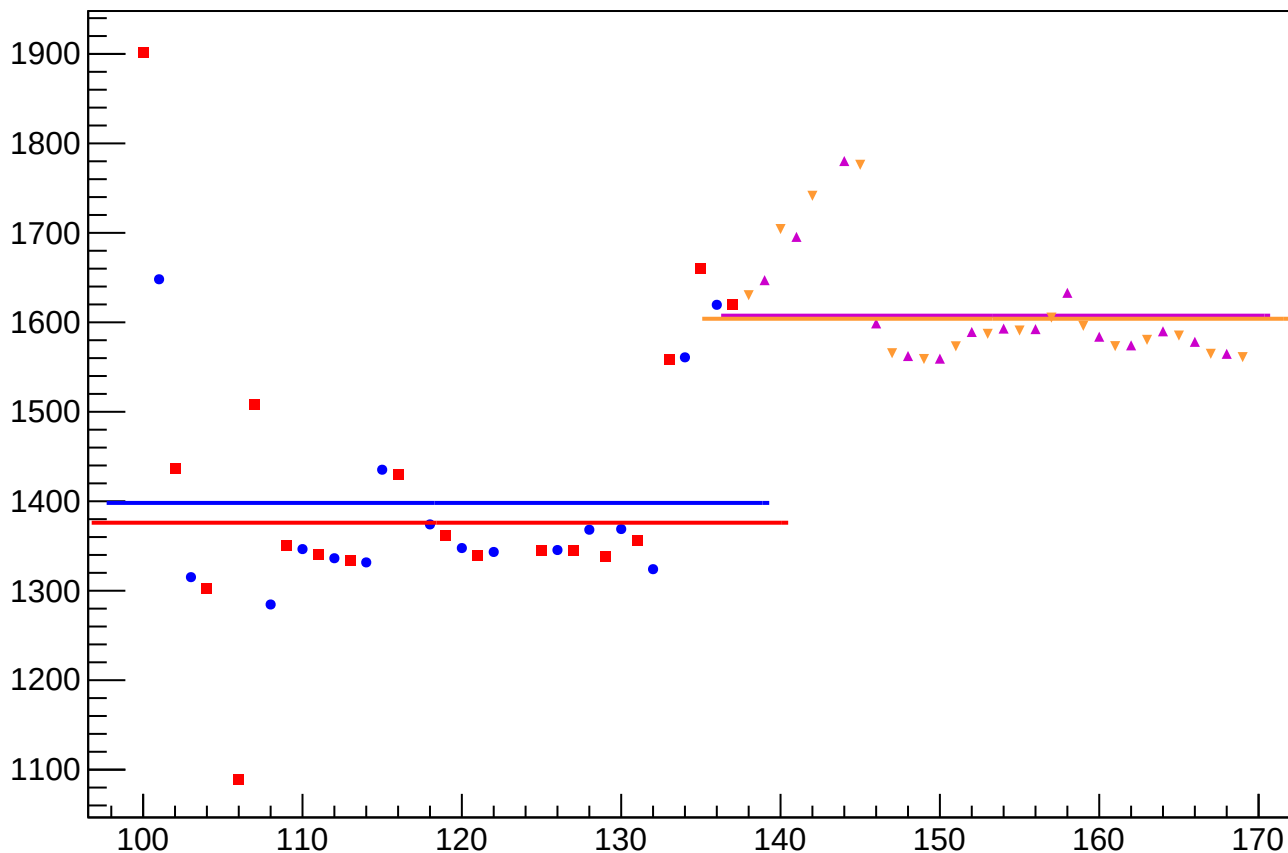
Right: 2012.954+/-368.315 χ^2/NDF : 21.4/33

In: 2102.103+/-343.710 χ^2/NDF : 17.5/30

Out: 1432.069+/-340.870 χ^2/NDF : 51.1/33

All: 1764.306+/-242.029 χ^2/NDF : 70.5/64

eigen_cor_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1398.161+/-0.369 χ^2/NDF : 93923.6/15

Left Out: 1604.003+/-0.319 χ^2/NDF : 33771.6/15

Right Out: 1376.021+/-0.363 χ^2/NDF : 114033.6/17

Left In: 1607.452+/-0.323 χ^2/NDF : 29742.8/14

Left: 1605.709+/-0.227 χ^2/NDF : 63572.1/30

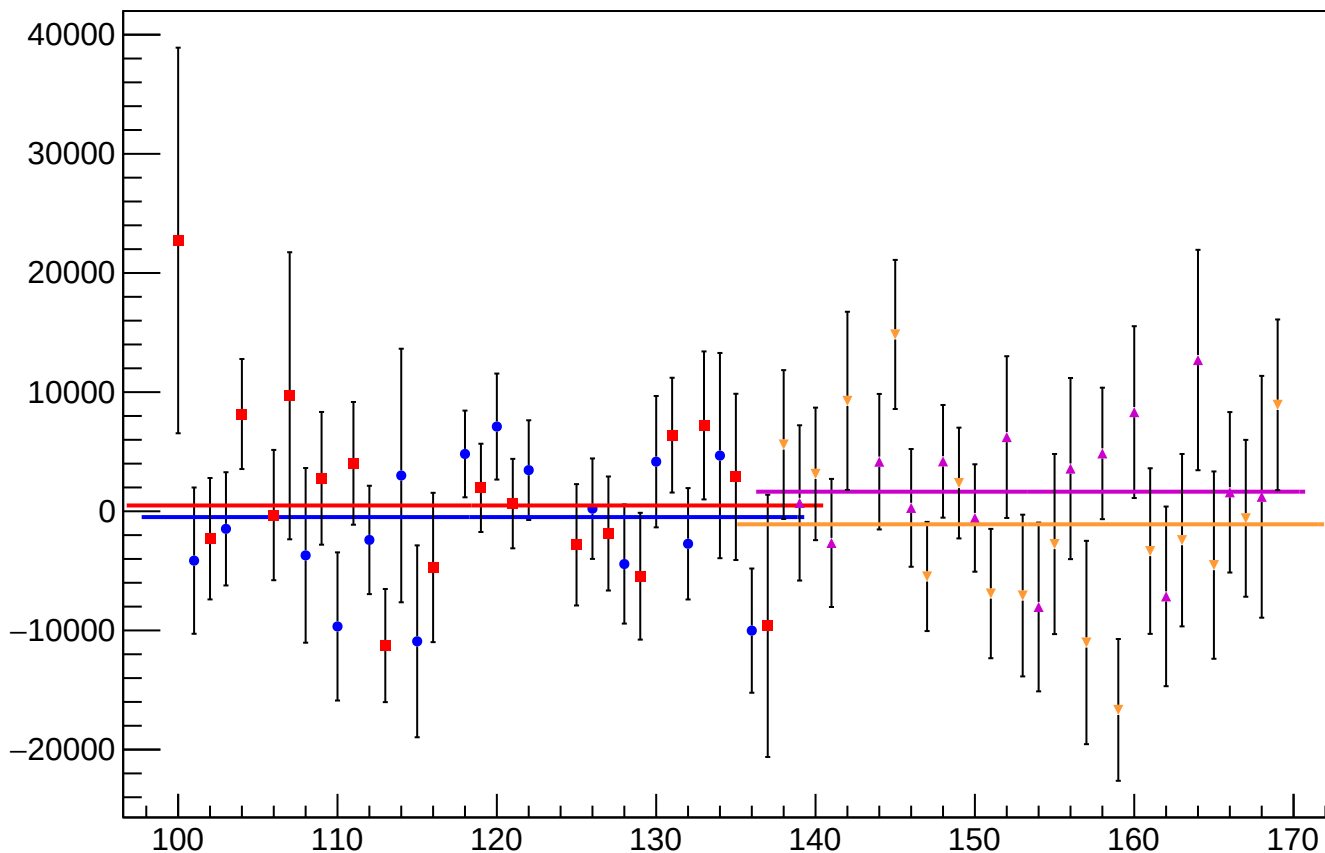
Right: 1386.888+/-0.259 χ^2/NDF : 209787.8/33

In: 1516.773+/-0.243 χ^2/NDF : 305754.5/30

Out: 1504.384+/-0.240 χ^2/NDF : 370482.7/33

All: 1510.491+/-0.171 χ^2/NDF : 677554.9/64

asym_usl_atl2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -486.563+/-1294.930 χ^2/NDF : 15.9/15

Left Out: -1092.556+/-1563.599 χ^2/NDF : 24.1/15

Right Out: 488.594+/-1261.315 χ^2/NDF : 18.7/17

Left In: 1644.765+/-1589.008 χ^2/NDF : 7.8/14

Left: 254.044+/-1114.506 χ^2/NDF : 33.4/30

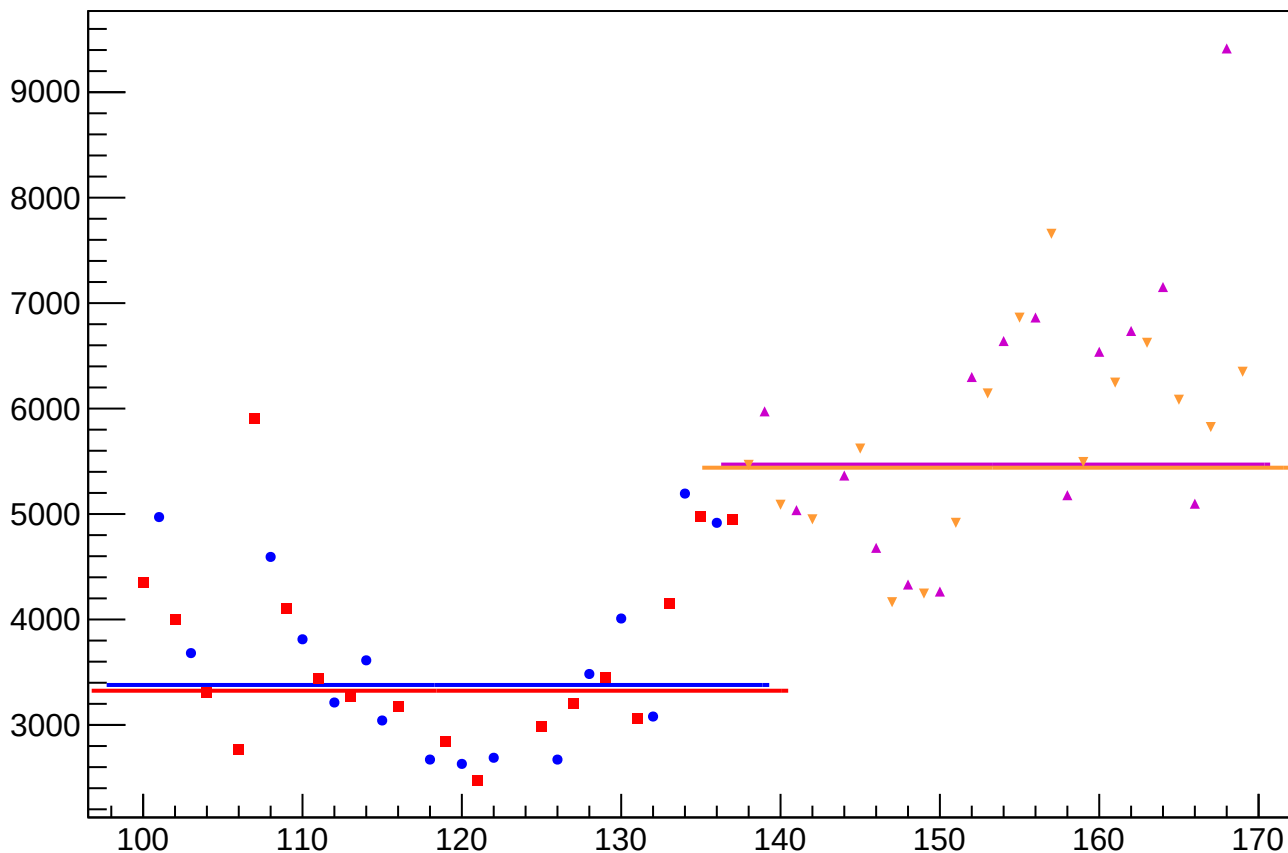
Right: 13.837+/-903.535 χ^2/NDF : 35.0/33

In: 364.004+/-1003.819 χ^2/NDF : 24.9/30

Out: -134.703+/-981.717 χ^2/NDF : 43.4/33

All: 109.100+/-701.862 χ^2/NDF : 68.4/64

asym_usl_atl2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3379.110+/-0.916 χ^2/NDF : 755339.9/15

Left Out: 5439.312+/-1.106 χ^2/NDF : 684564.6/15

Right Out: 3324.449+/-0.892 χ^2/NDF : 543813.3/17

Left In: 5468.907+/-1.124 χ^2/NDF : 967802.6/14

Left: 5453.871+/-0.788 χ^2/NDF : 1652719.7/30

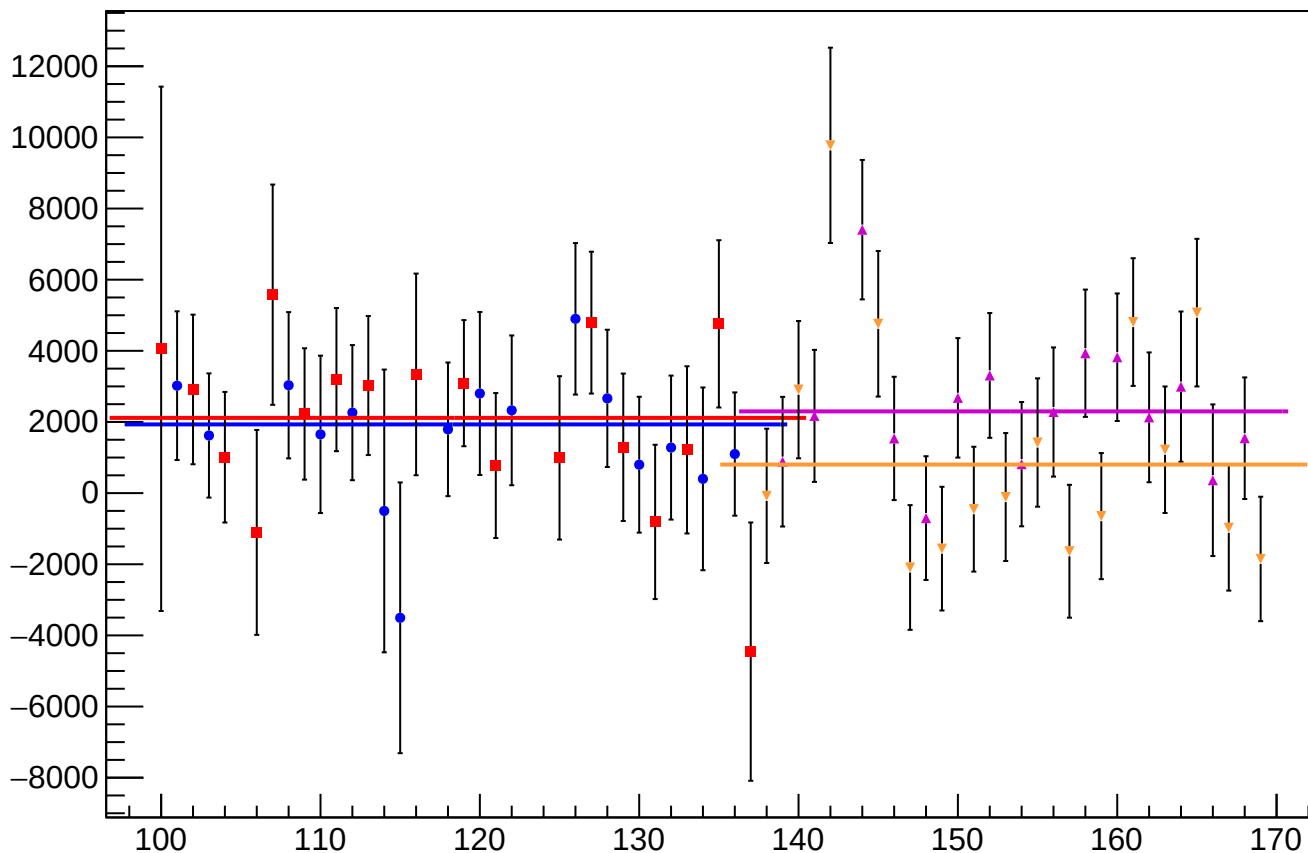
Right: 3351.061+/-0.639 χ^2/NDF : 1300981.9/33

In: 4213.103+/-0.710 χ^2/NDF : 3801898.1/30

Out: 4158.139+/-0.694 χ^2/NDF : 3444885.9/33

All: 4185.009+/-0.496 χ^2/NDF : 7249848.8/64

dit_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1931.537 $\pm$ 527.135 χ^2/NDF : 6.4/15

Left Out: 803.112 $\pm$ 464.778 χ^2/NDF : 36.2/15

Right Out: 2115.195 $\pm$ 528.802 χ^2/NDF : 13.2/17

Left In: 2297.495 $\pm$ 469.519 χ^2/NDF : 14.4/14

Left: 1542.721 $\pm$ 330.311 χ^2/NDF : 55.7/30

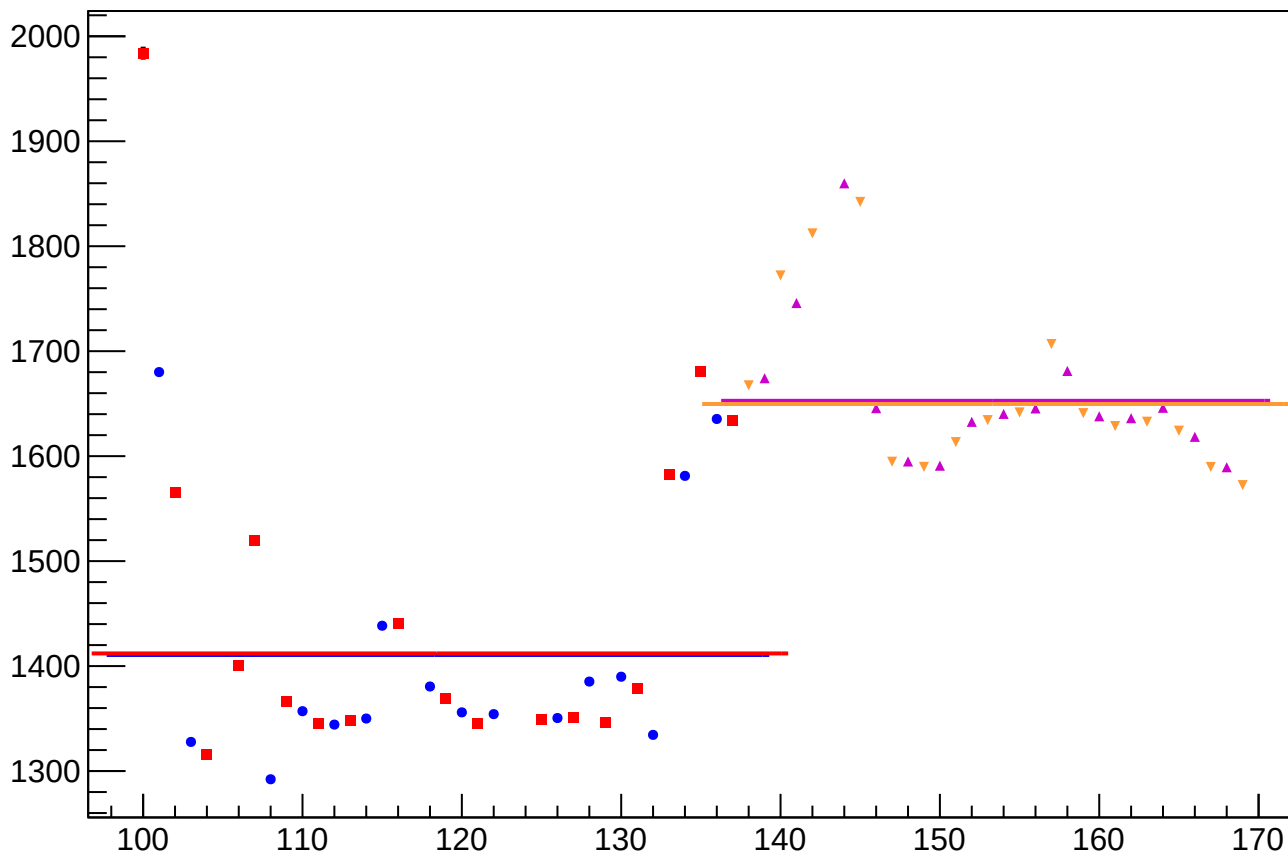
Right: 2023.076 $\pm$ 373.329 χ^2/NDF : 19.6/33

In: 2135.601 $\pm$ 350.607 χ^2/NDF : 21.0/30

Out: 1374.955 $\pm$ 349.101 χ^2/NDF : 52.9/33

All: 1753.641 $\pm$ 247.383 χ^2/NDF : 76.3/64

dit_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1410.595+/-0.373 χ^2/NDF : 99150.0/15

Left Out: 1649.693+/-0.329 χ^2/NDF : 47217.8/15

Right Out: 1412.048+/-0.373 χ^2/NDF : 89704.5/17

Left In: 1652.705+/-0.332 χ^2/NDF : 37096.2/14

Left: 1651.184+/-0.234 χ^2/NDF : 84355.5/30

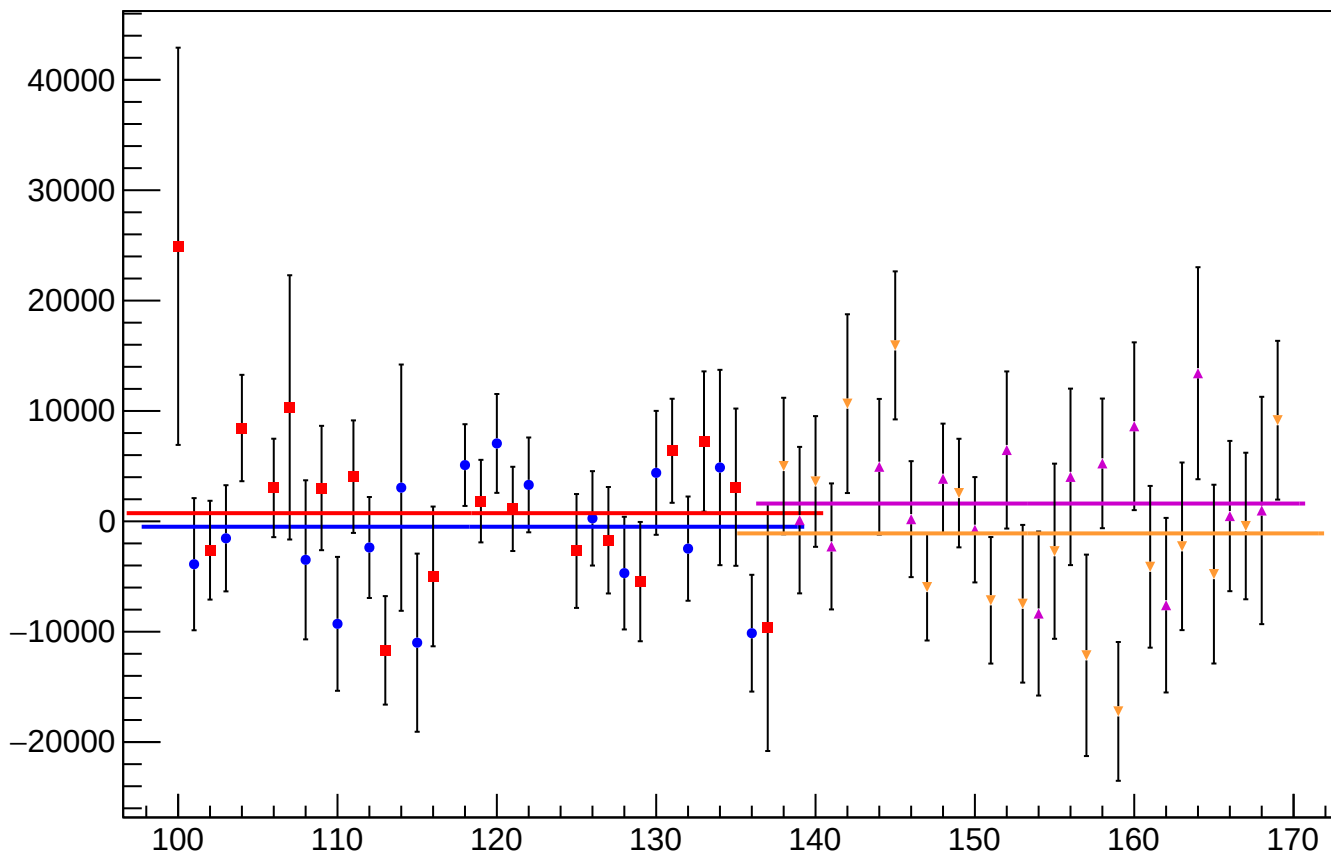
Right: 1411.321+/-0.264 χ^2/NDF : 188862.1/33

In: 1545.600+/-0.248 χ^2/NDF : 371505.9/30

Out: 1545.808+/-0.247 χ^2/NDF : 365492.2/33

All: 1545.705+/-0.175 χ^2/NDF : 736998.4/64

asym_usl_atl2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -489.402 $\pm$ 1308.692 χ^2 /NDF: 15.8/15

Left Out: -1092.428 $\pm$ 1638.268 χ^2 /NDF: 24.2/15

Right Out: 740.592 $\pm$ 1247.947 χ^2 /NDF: 19.2/17

Left In: 1612.292 $\pm$ 1671.866 χ^2 /NDF: 7.8/14

Left: 232.482 $\pm$ 1170.128 χ^2 /NDF: 33.3/30

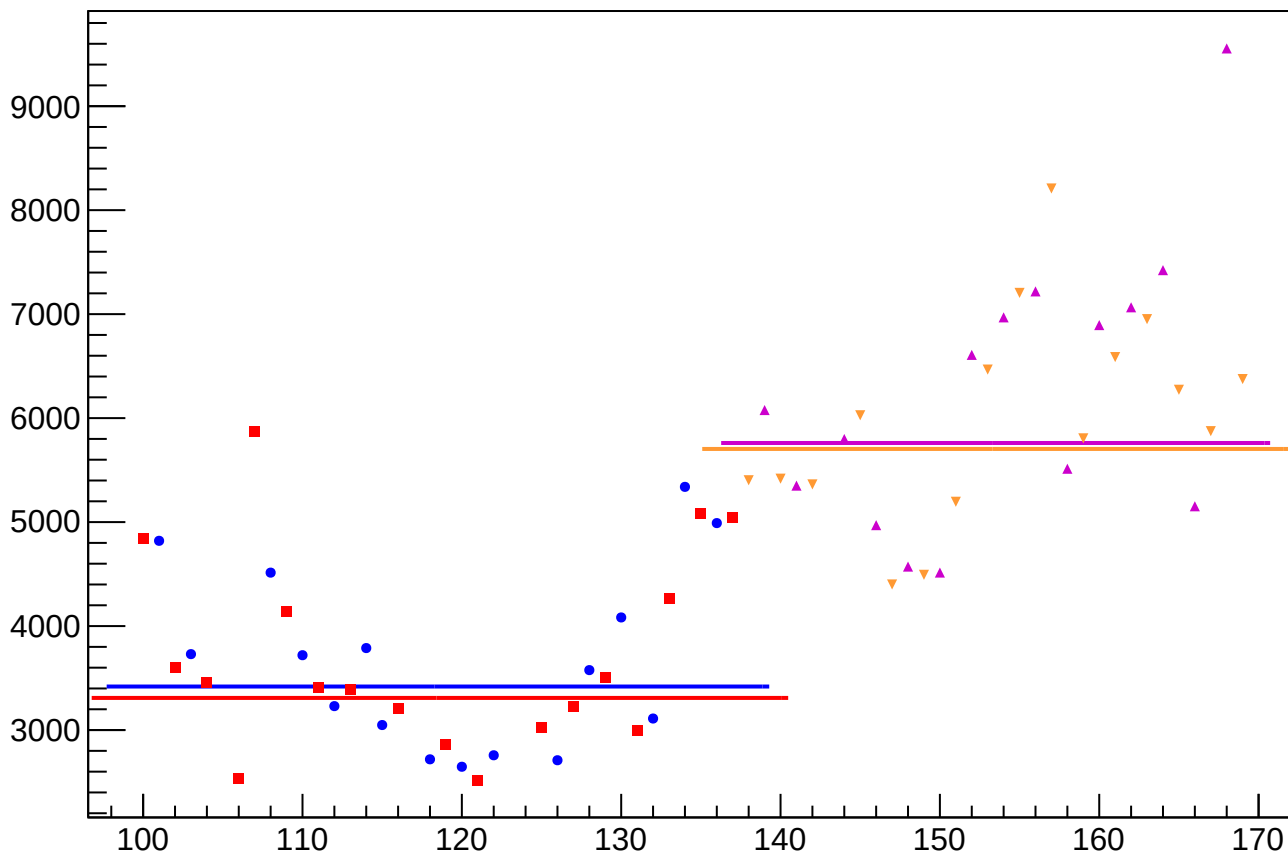
Right: 154.802 $\pm$ 903.143 χ^2 /NDF: 35.5/33

In: 309.105 $\pm$ 1030.519 χ^2 /NDF: 24.6/30

Out: 67.520 $\pm$ 992.732 χ^2 /NDF: 44.2/33

All: 183.802 $\pm$ 714.953 χ^2 /NDF: 68.8/64

asym_usl_atl2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 3418.701+/-0.925 χ^2/NDF : 721215.3/15

Left Out: 5703.467+/-1.158 χ^2/NDF : 656809.4/15

Right Out: 3309.112+/-0.882 χ^2/NDF : 571940.6/17

Left In: 5760.767+/-1.182 χ^2/NDF : 907553.7/14

Left: 5731.535+/-0.827 χ^2/NDF : 1565561.6/30

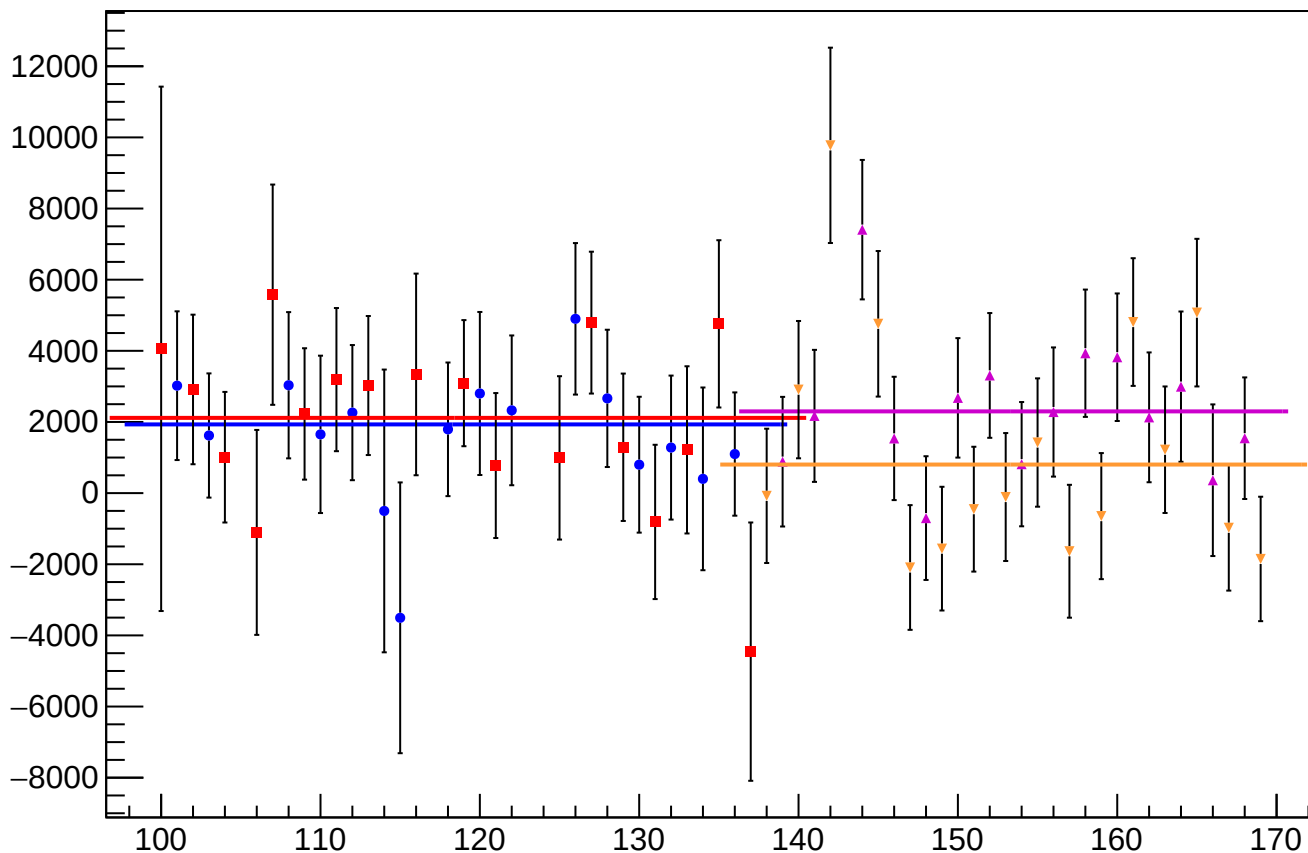
Right: 3361.304+/-0.639 χ^2/NDF : 1300501.2/33

In: 4308.533+/-0.729 χ^2/NDF : 4062444.9/30

Out: 4188.302+/-0.702 χ^2/NDF : 3932139.4/33

All: 4246.173+/-0.506 χ^2/NDF : 8008704.6/64

eigen_dit_asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 1931.538 $\pm$ 527.135 χ^2 /NDF: 6.4/15

Left Out: 803.105 $\pm$ 464.779 χ^2 /NDF:36.2/15

Right Out: 2115.195 $\pm$ 528.802 χ^2 /NDF: 13.2/17

Left In: 2297.497 $\pm$ 469.519 χ^2 /NDF:14.4/14

Left: 1542.718 $\pm$ 330.311 χ^2 /NDF: 55.7/30

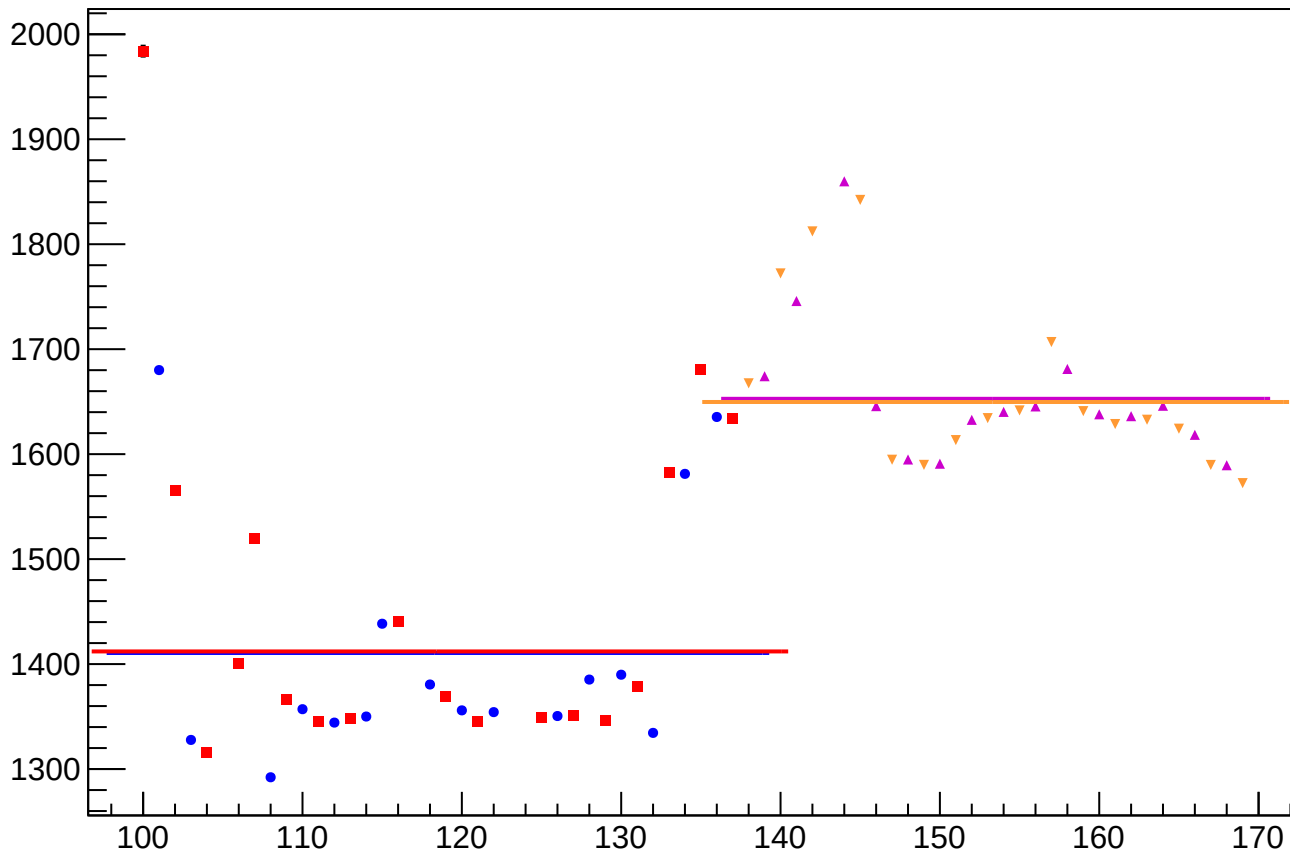
Right: 2023.076 $\pm$ 373.329 χ^2 /NDF: 19.6/33

In: 2135.603 $\pm$ 350.608 χ^2 /NDF:21.0/30

Out: 1374.952 $\pm$ 349.101 χ^2 /NDF:52.9/33

All: 1753.640 $\pm$ 247.383 χ^2 /NDF: 76.3/64

eigen_dit_asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 1410.595 $\pm$ 0.373 χ^2 /NDF: 99150.0/15

Left Out: 1649.694 $\pm$ 0.329 χ^2 /NDF: 47218.7/15

Right Out: 1412.048 $\pm$ 0.373 χ^2 /NDF: 89704.6/17

Left In: 1652.707 $\pm$ 0.332 χ^2 /NDF: 37096.6/14

Left: 1651.185 $\pm$ 0.234 χ^2 /NDF: 84356.9/30

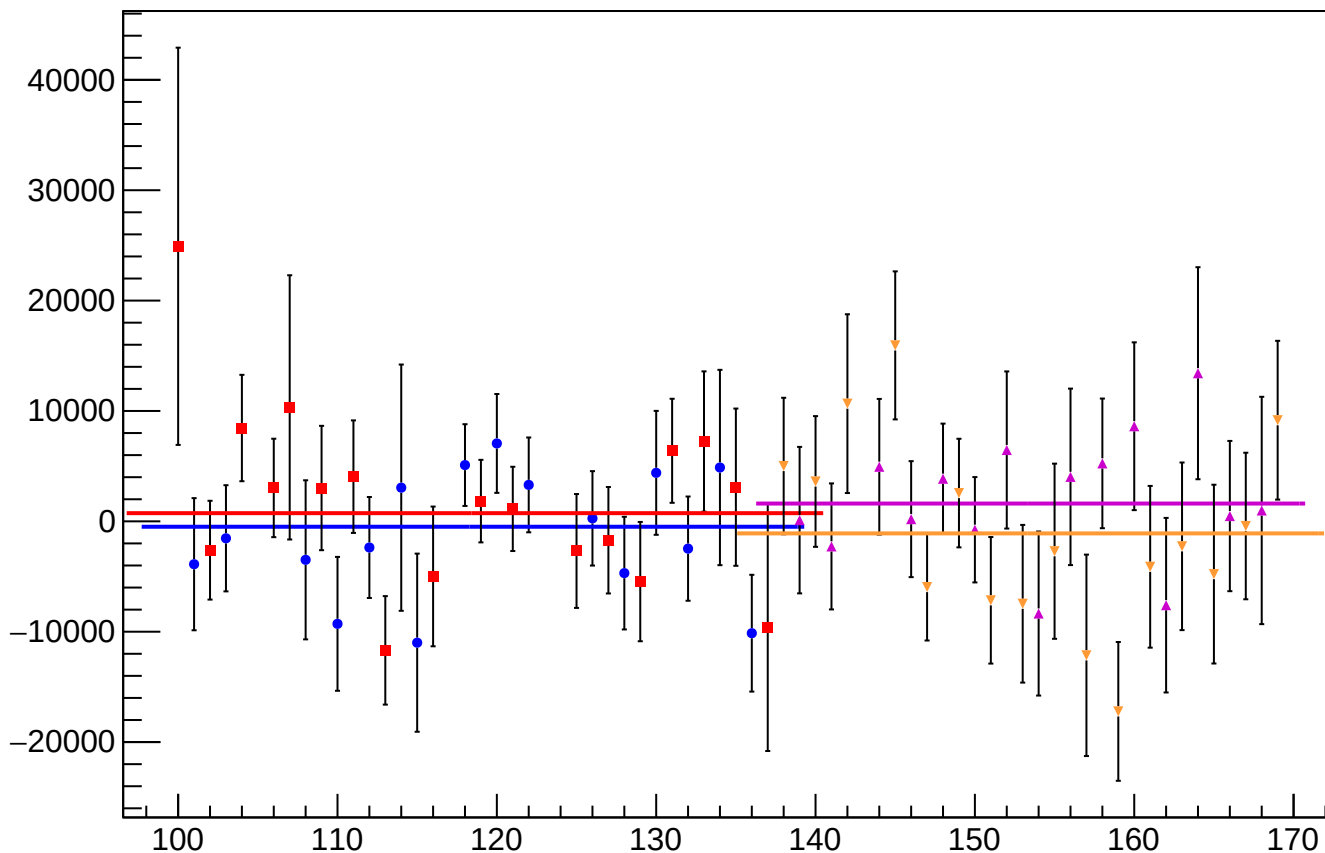
Right: 1411.321 $\pm$ 0.264 χ^2 /NDF: 188862.2/33

In: 1545.601 $\pm$ 0.248 χ^2 /NDF: 371508.6/30

Out: 1545.809 $\pm$ 0.247 χ^2 /NDF: 365495.9/33

All: 1545.705 $\pm$ 0.175 χ^2 /NDF: 737004.8/64

asym_usl_atl2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -489.395+/-1308.688 χ^2/NDF : 15.8/15

Left Out: -1092.435+/-1638.270 χ^2/NDF : 24.2/15

Right Out: 740.594+/-1247.944 χ^2/NDF : 19.2/17

Left In: 1612.292+/-1671.868 χ^2/NDF : 7.8/14

Left: 232.478+/-1170.130 χ^2/NDF : 33.3/30

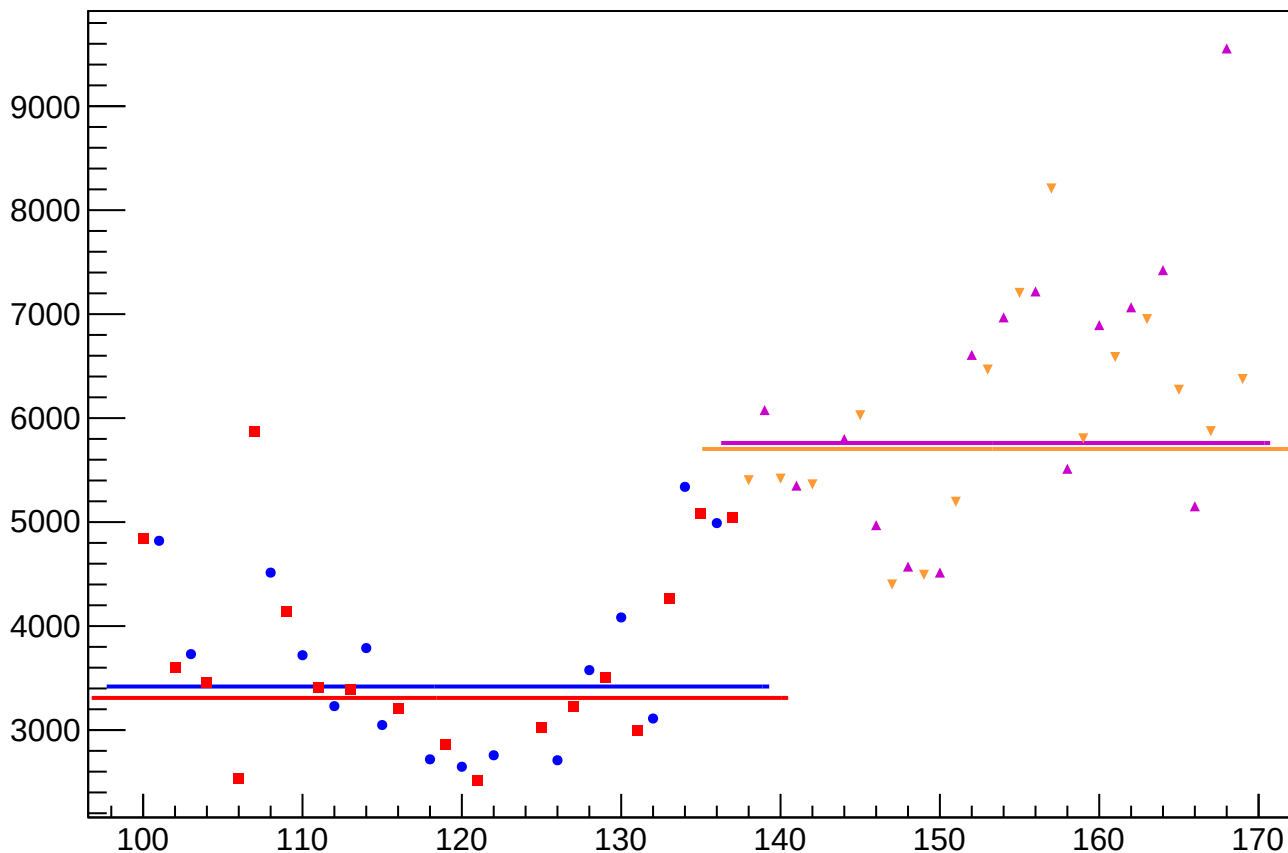
Right: 154.807+/-903.141 χ^2/NDF : 35.5/33

In: 309.105+/-1030.518 χ^2/NDF : 24.6/30

Out: 67.523+/-992.731 χ^2/NDF : 44.2/33

All: 183.804+/-714.952 χ^2/NDF : 68.8/64

asym_usl_atl2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3418.690+/-0.925 χ^2/NDF : 721223.9/15

Left Out: 5703.474+/-1.158 χ^2/NDF : 656812.0/15

Right Out: 3309.102+/-0.882 χ^2/NDF : 571944.5/17

Left In: 5760.774+/-1.182 χ^2/NDF : 907556.2/14

Left: 5731.543+/-0.827 χ^2/NDF : 1565566.7/30

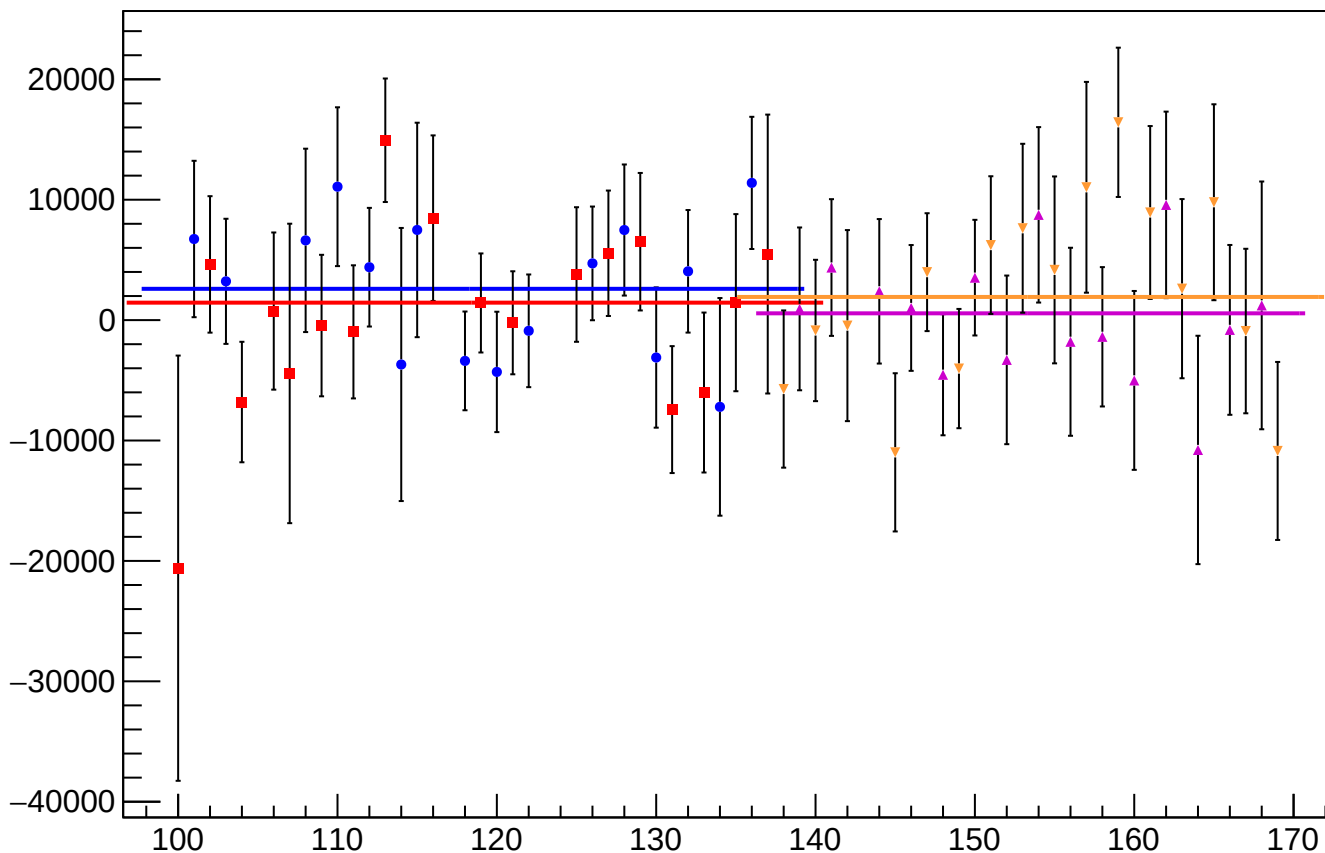
Right: 3361.294+/-0.639 χ^2/NDF : 1300513.6/33

In: 4308.524+/-0.729 χ^2/NDF : 4062495.7/30

Out: 4188.294+/-0.702 χ^2/NDF : 3932185.8/33

All: 4246.164+/-0.506 χ^2/NDF : 8008801.7/64

asym_usl_atl2_avg_mean vs Slug, Sign Corrected



Right In: 2599.622 $\pm$ 1414.499 χ^2 /NDF: 13.5/15

Left Out: 1924.628 $\pm$ 1637.667 χ^2 /NDF:20.1/15

Right Out: 1450.418 $\pm$ 1382.818 χ^2 /NDF: 19.0/17

Left In: 563.820 $\pm$ 1664.002 χ^2 /NDF:7.1/14

Left: 1255.077 $\pm$ 1167.205 χ^2 /NDF: 27.6/30

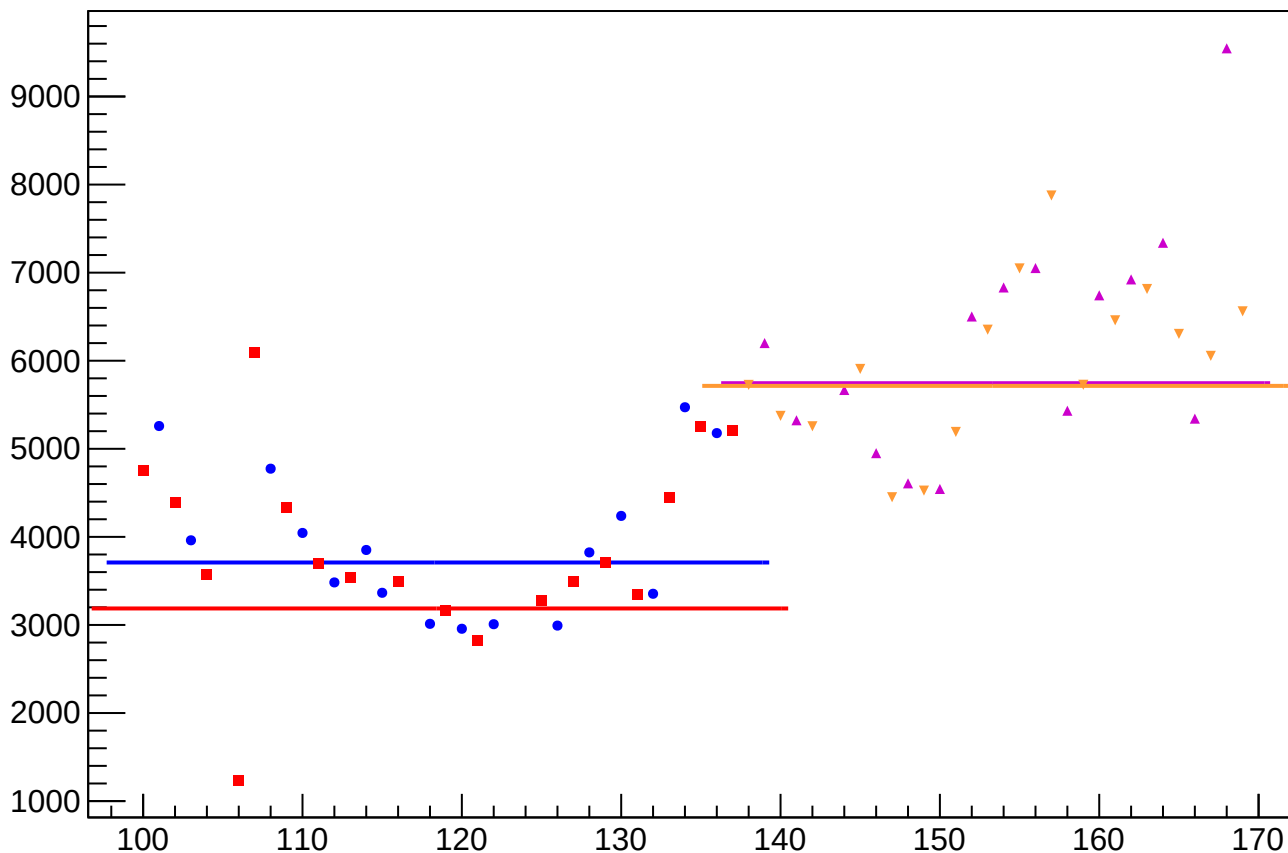
Right: 2012.006 $\pm$ 988.811 χ^2 /NDF: 32.9/33

In: 1745.640 $\pm$ 1077.731 χ^2 /NDF:21.5/30

Out: 1647.795 $\pm$ 1056.546 χ^2 /NDF:39.2/33

All: 1695.746 $\pm$ 754.469 χ^2 /NDF: 60.7/64

asym_usl_atl2_avg_rms vs Slug, Sign Corrected



Right In: 3709.155+/-1.000 χ^2/NDF : 610637.3/15

Left Out: 5714.416+/-1.158 χ^2/NDF : 585088.3/15

Right Out: 3187.191+/-0.896 χ^2/NDF : 1610818.1/17

Left In: 5744.844+/-1.177 χ^2/NDF : 842249.5/14

Left: 5729.387+/-0.825 χ^2/NDF : 1427677.4/30

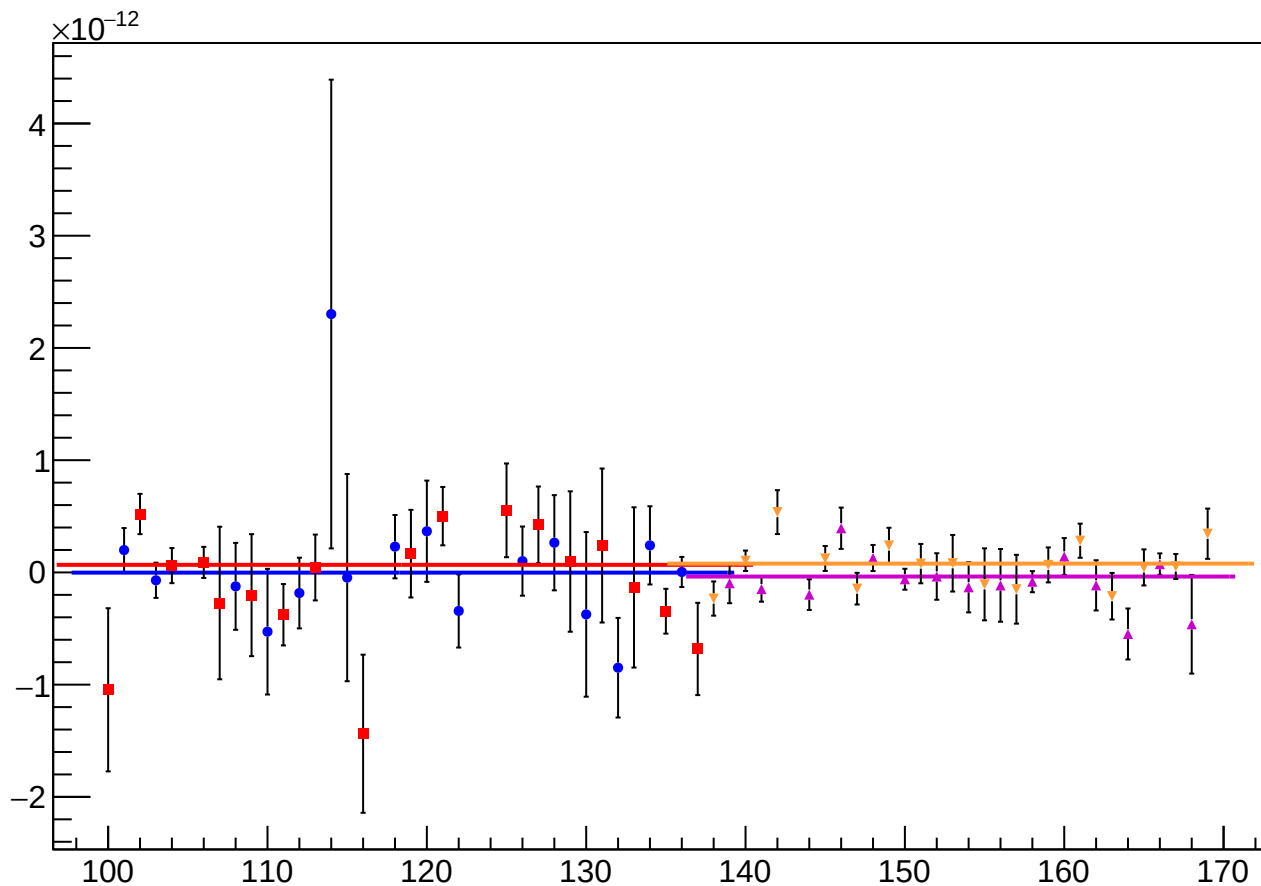
Right: 3419.452+/-0.667 χ^2/NDF : 2372609.3/33

In: 4563.087+/-0.762 χ^2/NDF : 3190535.3/30

Out: 4133.024+/-0.708 χ^2/NDF : 5176223.8/33

All: 4332.388+/-0.519 χ^2/NDF : 8537598.9/64

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 11.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 19.6/15

Right Out: 0.000+/-0.000 χ^2/NDF : 29.5/17

Left In: -0.000+/-0.000 χ^2/NDF : 19.2/14

Left: 0.000+/-0.000 χ^2/NDF : 43.5/30

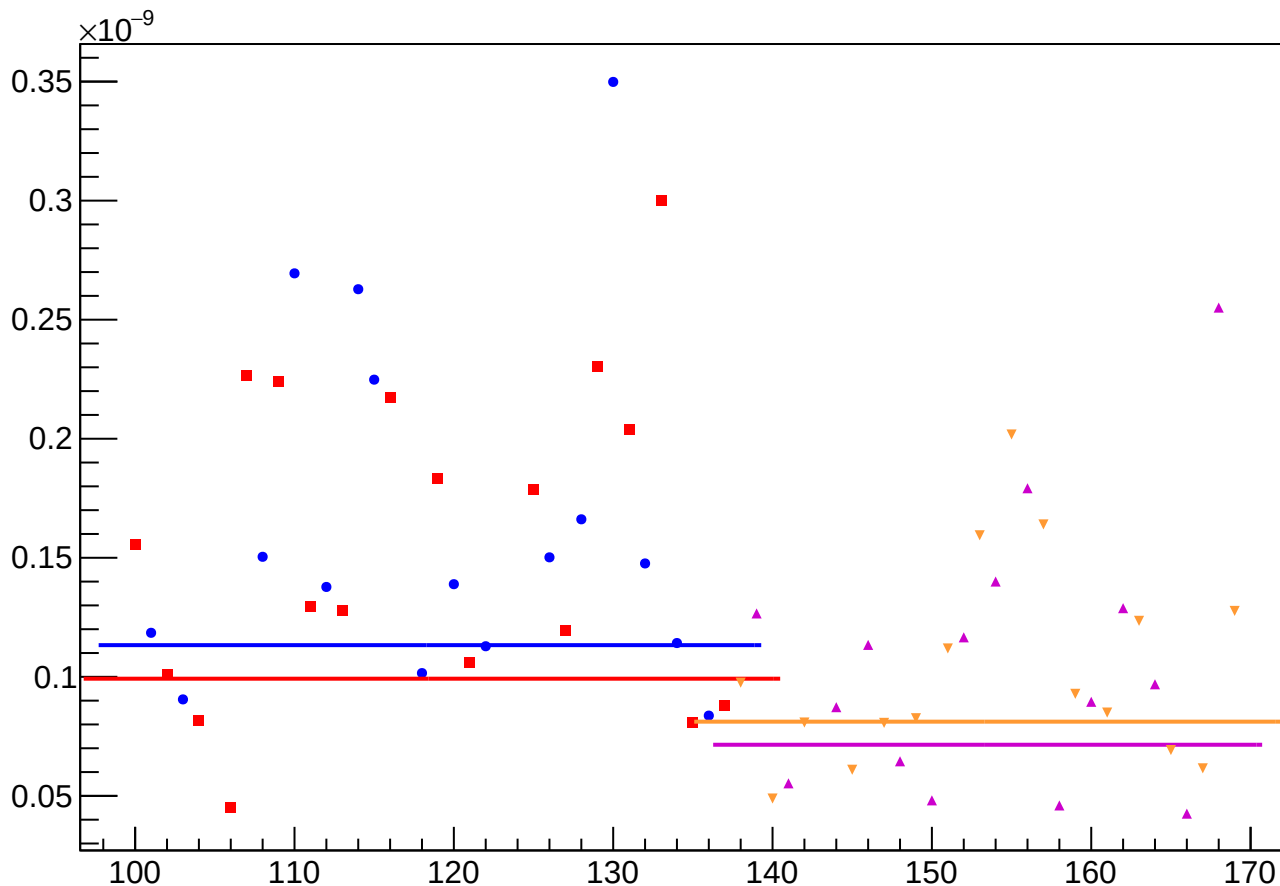
Right: 0.000+/-0.000 χ^2/NDF : 41.1/33

In: -0.000+/-0.000 χ^2/NDF : 30.5/30

Out: 0.000+/-0.000 χ^2/NDF : 49.1/33

All: 0.000+/-0.000 χ^2/NDF : 84.7/64

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 655766.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :1278880.8/15

Right Out: 0.000+/-0.000 χ^2/NDF : 1100854.2/17

Left In: 0.000+/-0.000 χ^2/NDF :1859616.7/14

Left: 0.000+/-0.000 χ^2/NDF : 3204977.4/30

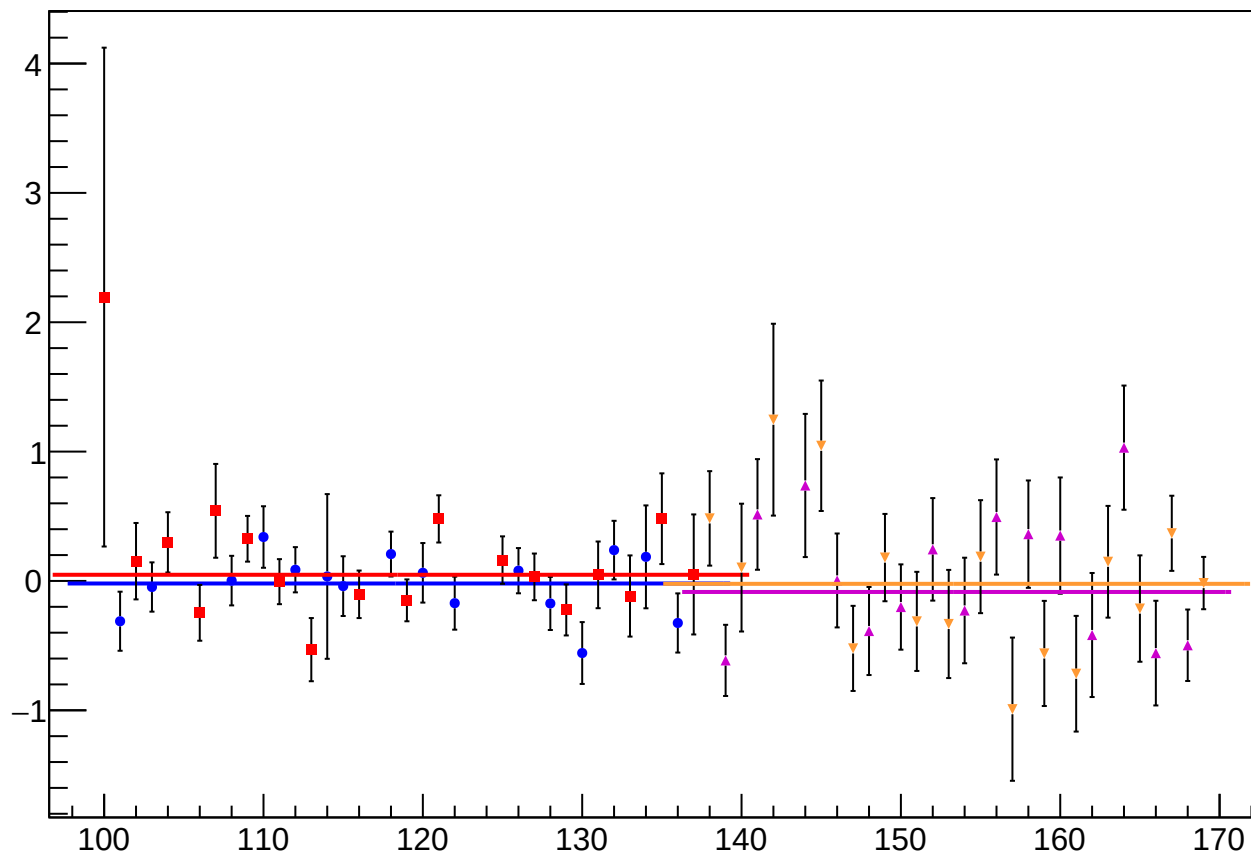
Right: 0.000+/-0.000 χ^2/NDF : 1799459.5/33

In: 0.000+/-0.000 χ^2/NDF :3069994.3/30

Out: 0.000+/-0.000 χ^2/NDF :2492165.6/33

All: 0.000+/-0.000 χ^2/NDF : 5588591.7/64

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.054 χ^2/NDF : 16.0/15

Left Out: -0.022 ± 0.093 χ^2/NDF : 22.8/15

Right Out: 0.048 ± 0.052 χ^2/NDF : 26.3/17

Left In: -0.085 ± 0.098 χ^2/NDF : 22.9/14

Left: -0.052 ± 0.068 χ^2/NDF : 46.0/30

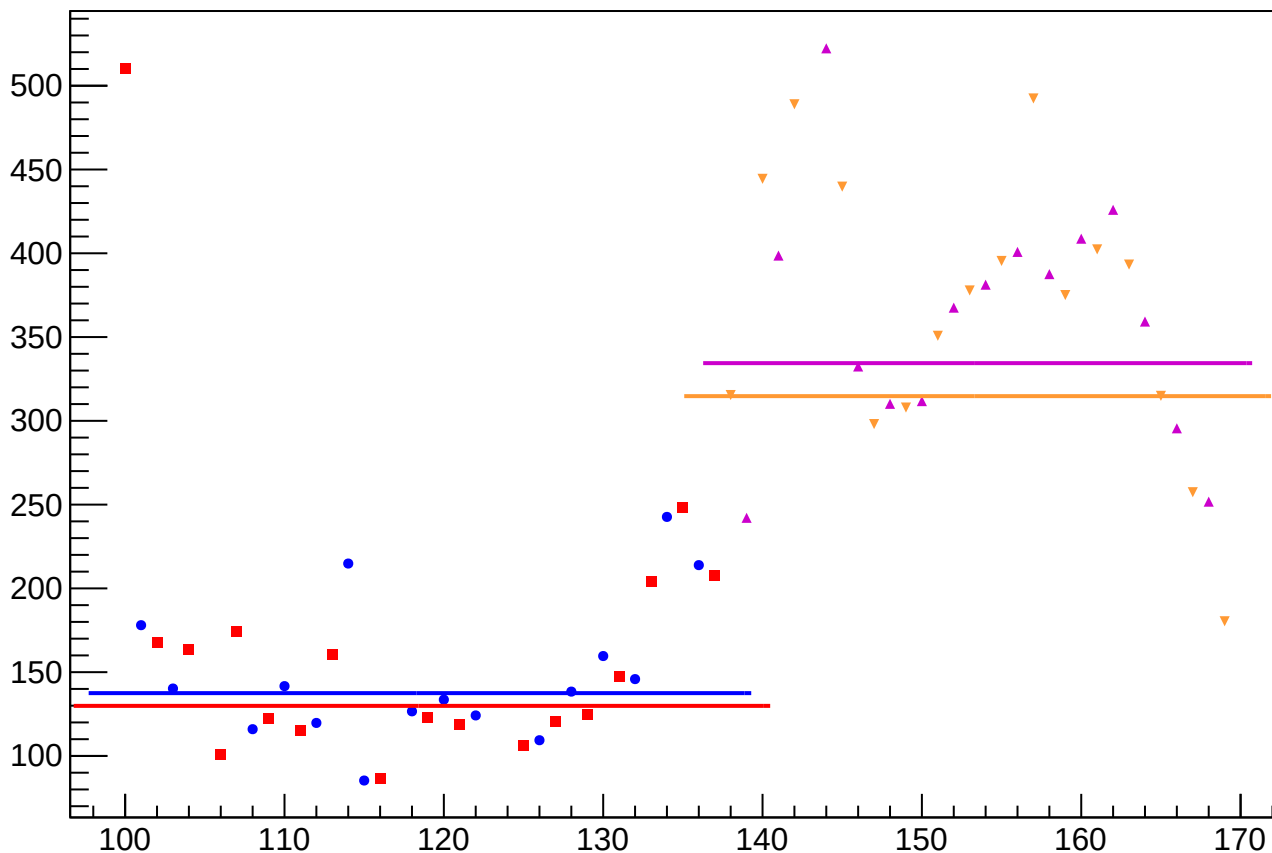
Right: 0.015 ± 0.038 χ^2/NDF : 43.1/33

In: -0.035 ± 0.047 χ^2/NDF : 39.3/30

Out: 0.031 ± 0.046 χ^2/NDF : 49.5/33

All: -0.001 ± 0.033 χ^2/NDF : 89.8/64

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.492 $\pm$ 0.038 χ^2 /NDF: 692947.9/15

Left Out: 314.742 $\pm$ 0.066 χ^2 /NDF:1862101.2/15

Right Out: 129.887 $\pm$ 0.037 χ^2 /NDF: 833983.9/17

Left In: 334.436 $\pm$ 0.070 χ^2 /NDF:968399.9/14

Left: 324.067 $\pm$ 0.048 χ^2 /NDF: 2872748.9/30

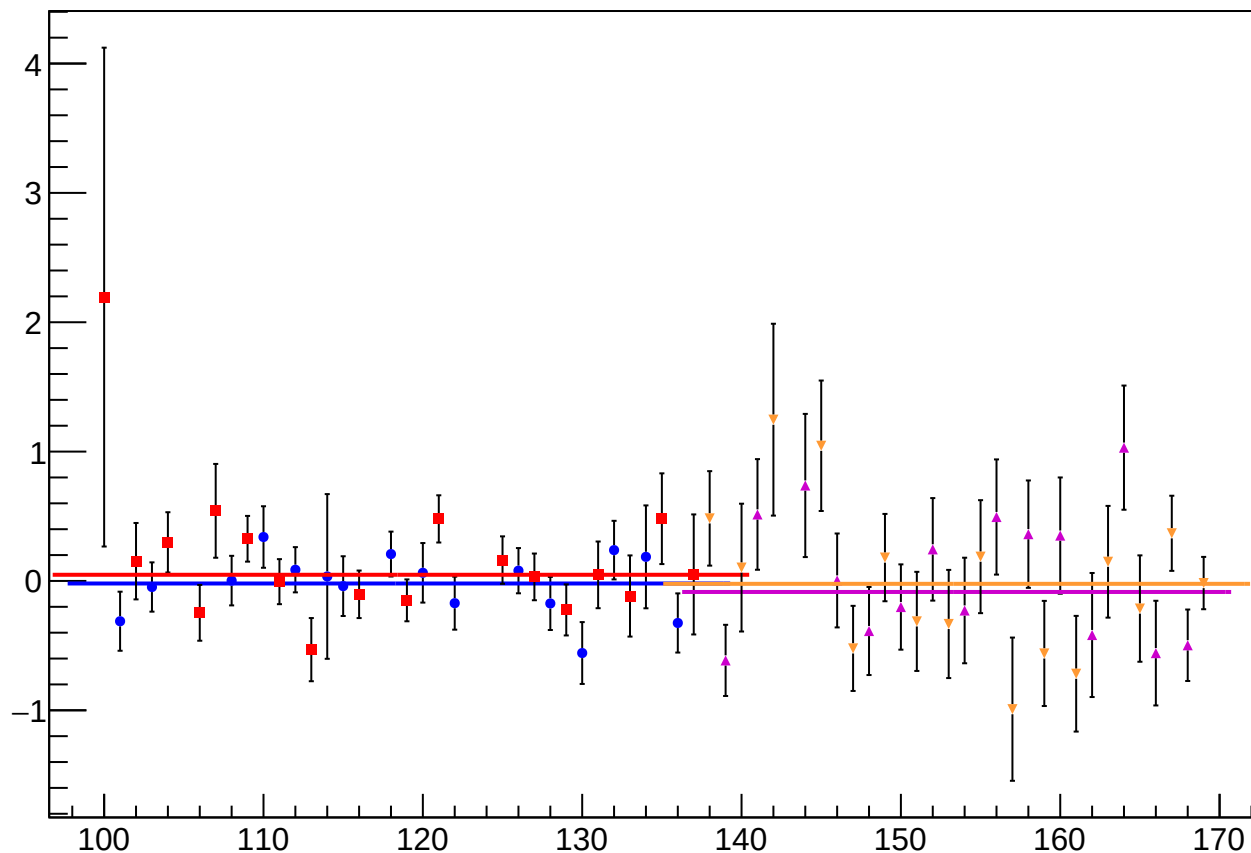
Right: 133.568 $\pm$ 0.027 χ^2 /NDF: 1547246.7/33

In: 183.399 $\pm$ 0.034 χ^2 /NDF:7815252.0/30

Out: 174.380 $\pm$ 0.032 χ^2 /NDF:8665439.9/33

All: 178.722 $\pm$ 0.023 χ^2 /NDF: 16518122.0/64

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.054 χ^2/NDF : 16.0/15

Left Out: -0.022 ± 0.093 χ^2/NDF : 22.8/15

Right Out: 0.048 ± 0.052 χ^2/NDF : 26.3/17

Left In: -0.085 ± 0.098 χ^2/NDF : 22.9/14

Left: -0.052 ± 0.068 χ^2/NDF : 46.0/30

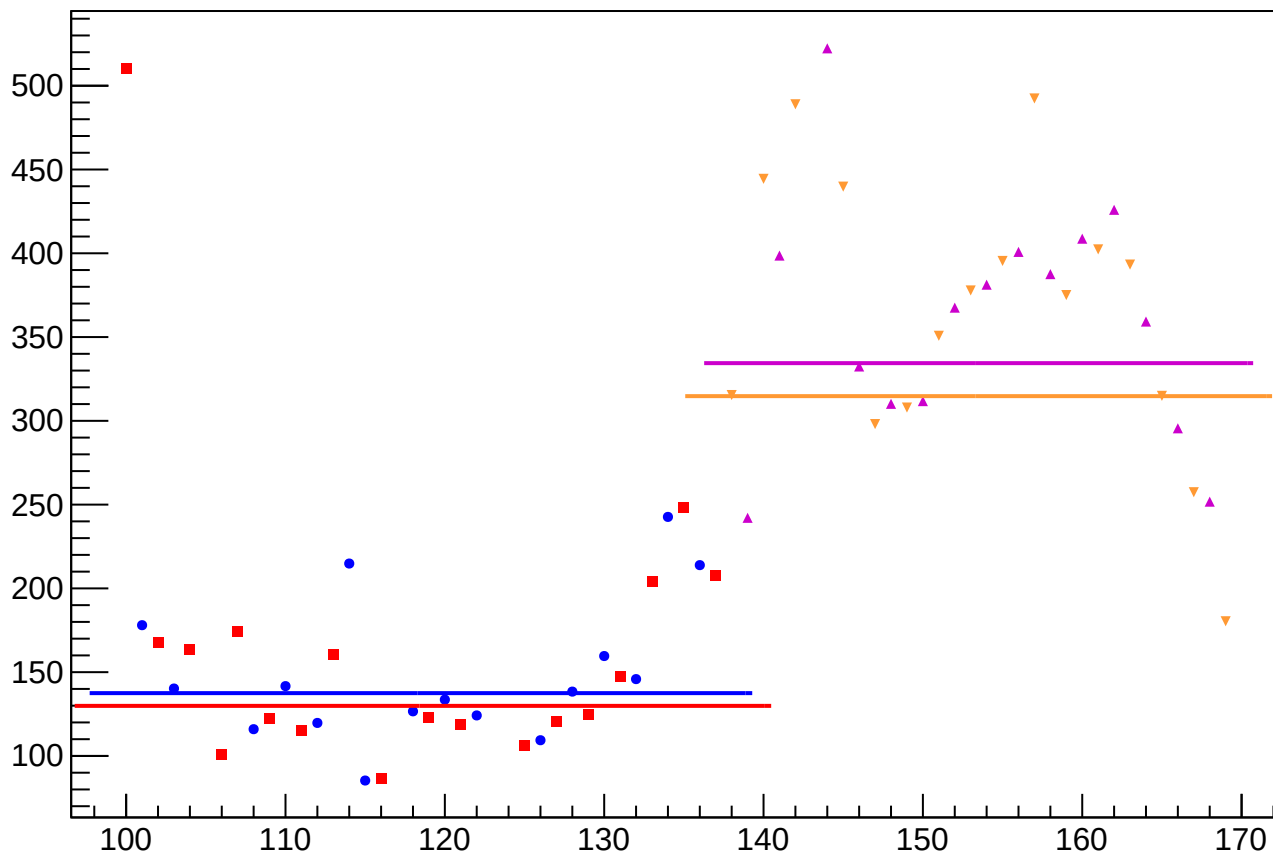
Right: 0.015 ± 0.038 χ^2/NDF : 43.1/33

In: -0.035 ± 0.047 χ^2/NDF : 39.3/30

Out: 0.031 ± 0.046 χ^2/NDF : 49.5/33

All: -0.001 ± 0.033 χ^2/NDF : 89.8/64

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.492 $\pm$ 0.038 χ^2 /NDF: 692947.9/15

Left Out: 314.742 $\pm$ 0.066 χ^2 /NDF:1862101.2/15

Right Out: 129.887 $\pm$ 0.037 χ^2 /NDF: 833983.9/17

Left In: 334.436 $\pm$ 0.070 χ^2 /NDF:968399.9/14

Left: 324.067 $\pm$ 0.048 χ^2 /NDF: 2872748.9/30

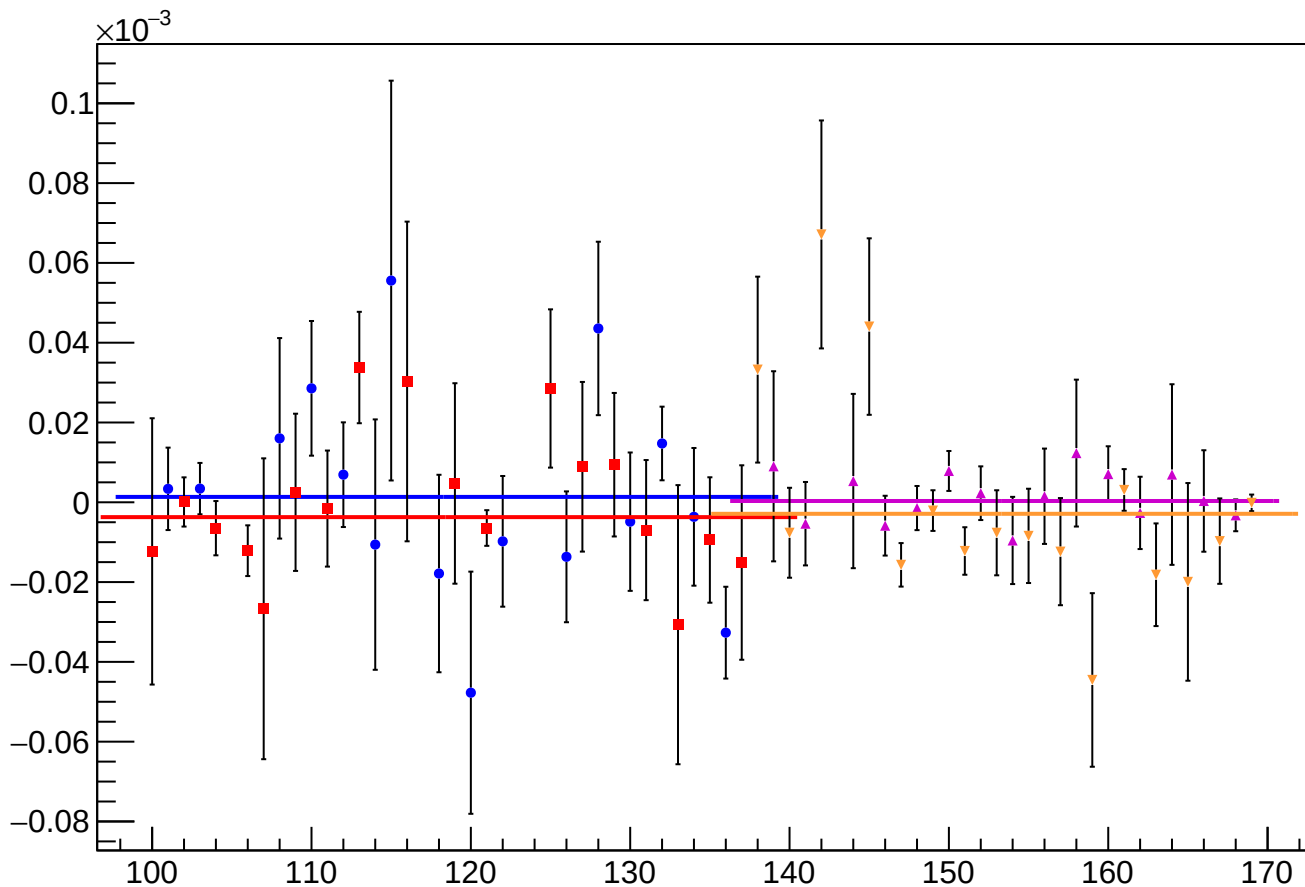
Right: 133.568 $\pm$ 0.027 χ^2 /NDF: 1547246.7/33

In: 183.399 $\pm$ 0.034 χ^2 /NDF:7815252.0/30

Out: 174.380 $\pm$ 0.032 χ^2 /NDF:8665439.9/33

All: 178.722 $\pm$ 0.023 χ^2 /NDF: 16518122.0/64

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 31.0/15

Right Out: -0.000+/-0.000 χ^2/NDF : 15.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 6.8/14

Left: -0.000+/-0.000 χ^2/NDF : 39.4/30

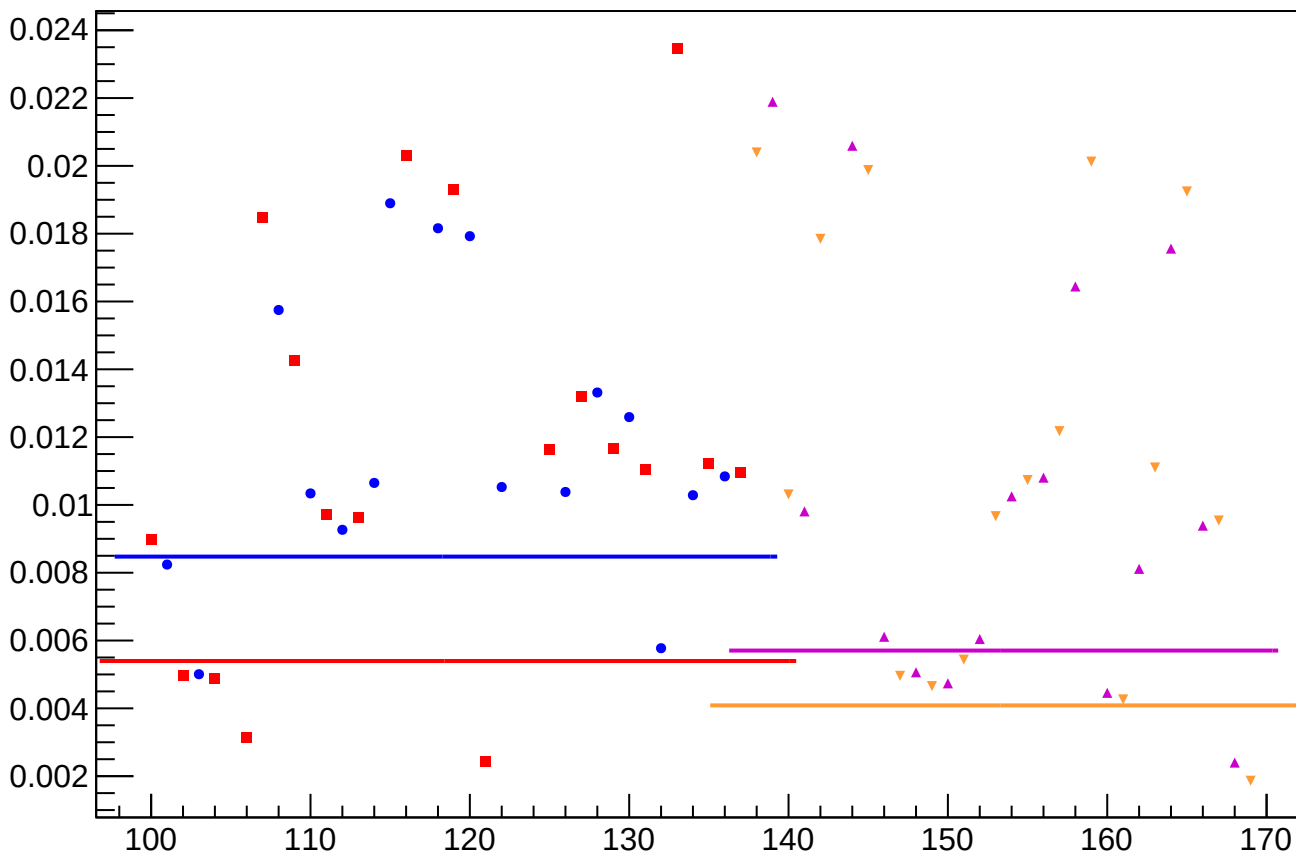
Right: -0.000+/-0.000 χ^2/NDF : 41.1/33

In: 0.000+/-0.000 χ^2/NDF : 30.8/30

Out: -0.000+/-0.000 χ^2/NDF : 46.9/33

All: -0.000+/-0.000 χ^2/NDF : 80.5/64

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000

χ^2/NDF : 1925998.4/15

Left Out: 0.004+/-0.000

χ^2/NDF : 10393555.2/15

Right Out: 0.005+/-0.000

χ^2/NDF : 4909074.3/17

Left In: 0.006+/-0.000

χ^2/NDF : 5958469.9/14

Left: 0.005+/-0.000

χ^2/NDF : 17167118.3/30

Right: 0.006+/-0.000

χ^2/NDF : 7872620.7/33

In: 0.006+/-0.000

χ^2/NDF : 8848543.0/30

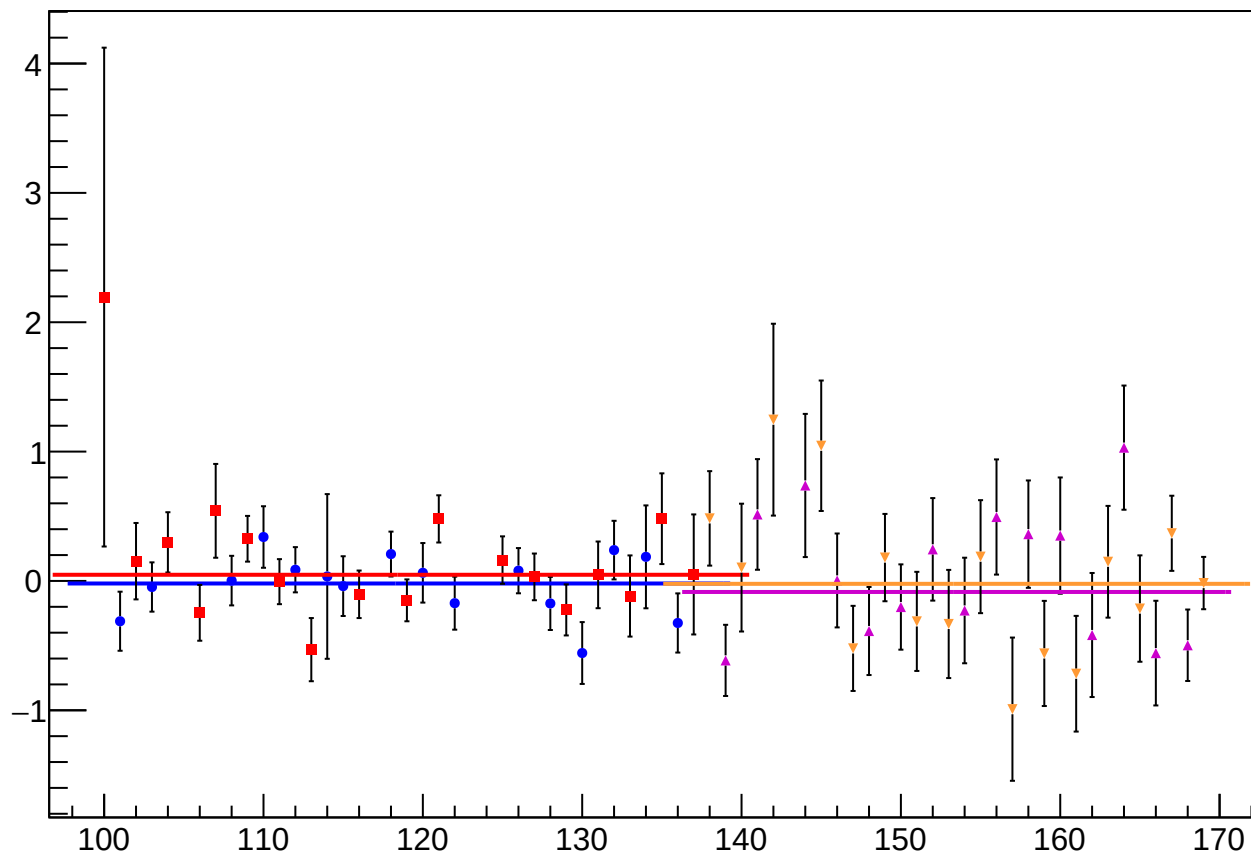
Out: 0.004+/-0.000

χ^2/NDF : 15693746.6/33

All: 0.005+/-0.000

χ^2/NDF : 26168982.1/64

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.054 χ^2/NDF : 16.0/15

Left Out: -0.022 ± 0.093 χ^2/NDF : 22.8/15

Right Out: 0.048 ± 0.052 χ^2/NDF : 26.3/17

Left In: -0.085 ± 0.098 χ^2/NDF : 22.9/14

Left: -0.052 ± 0.068 χ^2/NDF : 46.0/30

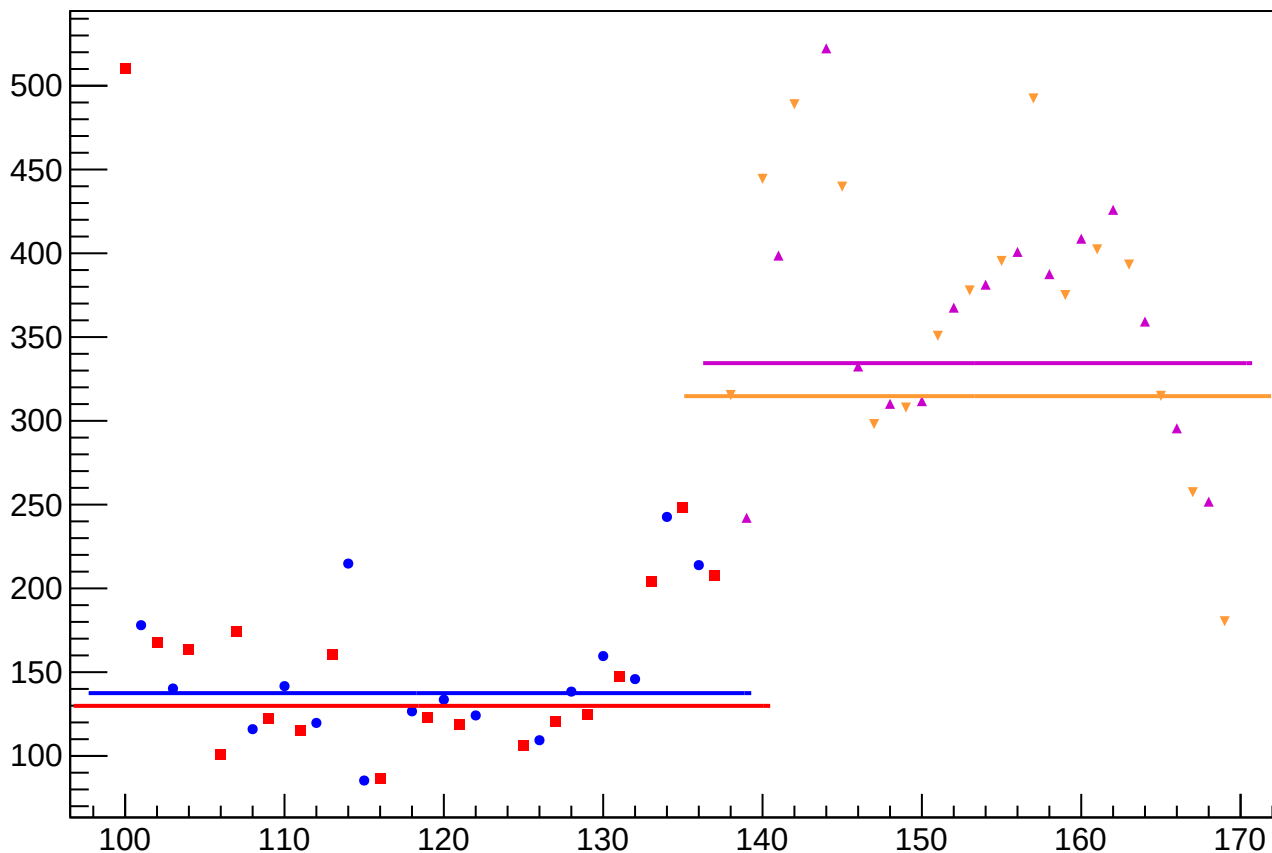
Right: 0.015 ± 0.038 χ^2/NDF : 43.1/33

In: -0.035 ± 0.047 χ^2/NDF : 39.3/30

Out: 0.031 ± 0.046 χ^2/NDF : 49.5/33

All: -0.001 ± 0.033 χ^2/NDF : 89.8/64

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.492 $\pm$ 0.038 χ^2 /NDF: 692923.1/15

Left Out: 314.745 $\pm$ 0.066 χ^2 /NDF:1862183.6/15

Right Out: 129.887 $\pm$ 0.037 χ^2 /NDF: 833937.8/17

Left In: 334.441 $\pm$ 0.070 χ^2 /NDF:968396.3/14

Left: 324.071 $\pm$ 0.048 χ^2 /NDF: 2872835.4/30

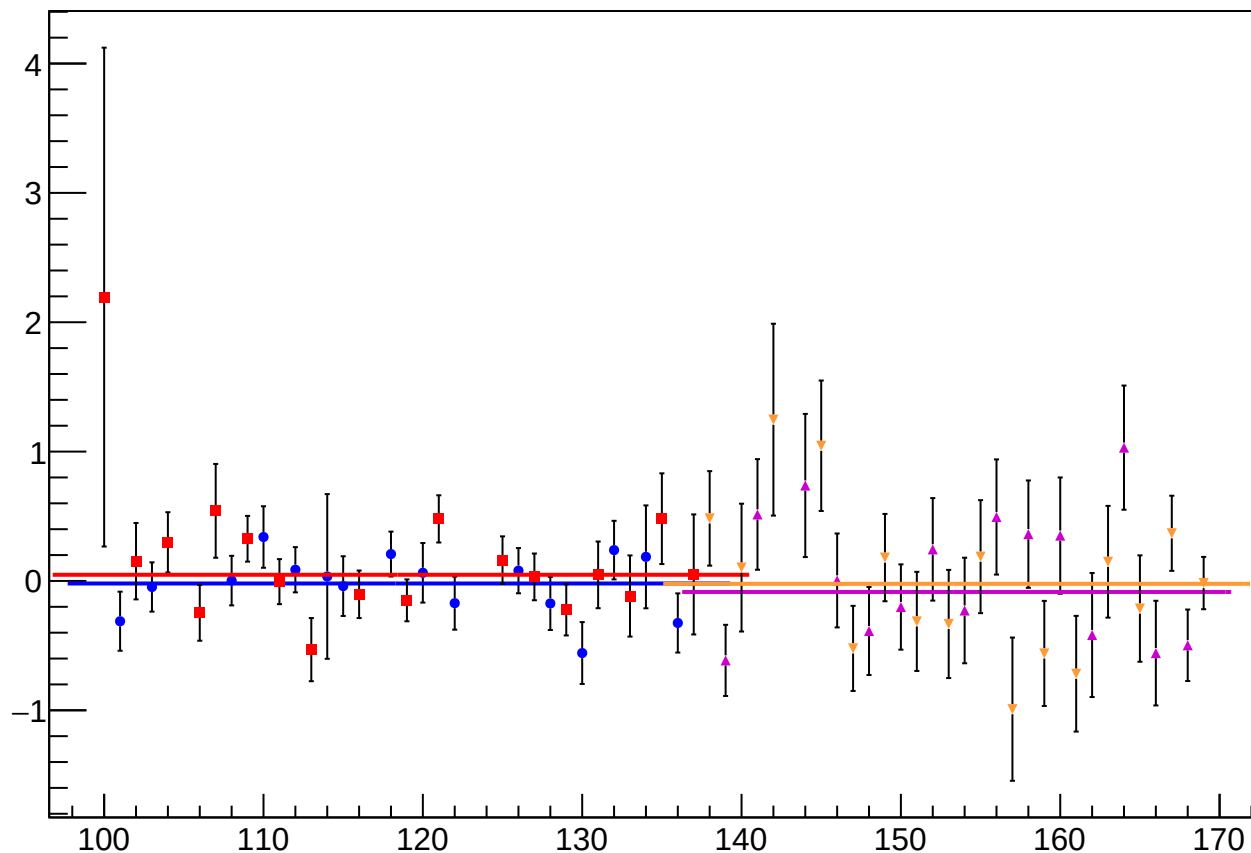
Right: 133.568 $\pm$ 0.027 χ^2 /NDF: 1547174.9/33

In: 183.398 $\pm$ 0.034 χ^2 /NDF:7815406.7/30

Out: 174.380 $\pm$ 0.032 χ^2 /NDF:8665570.6/33

All: 178.722 $\pm$ 0.023 χ^2 /NDF: 16518407.5/64

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.054 χ^2/NDF : 16.0/15

Left Out: -0.022 ± 0.093 χ^2/NDF : 22.8/15

Right Out: 0.048 ± 0.052 χ^2/NDF : 26.3/17

Left In: -0.085 ± 0.098 χ^2/NDF : 22.9/14

Left: -0.052 ± 0.068 χ^2/NDF : 46.0/30

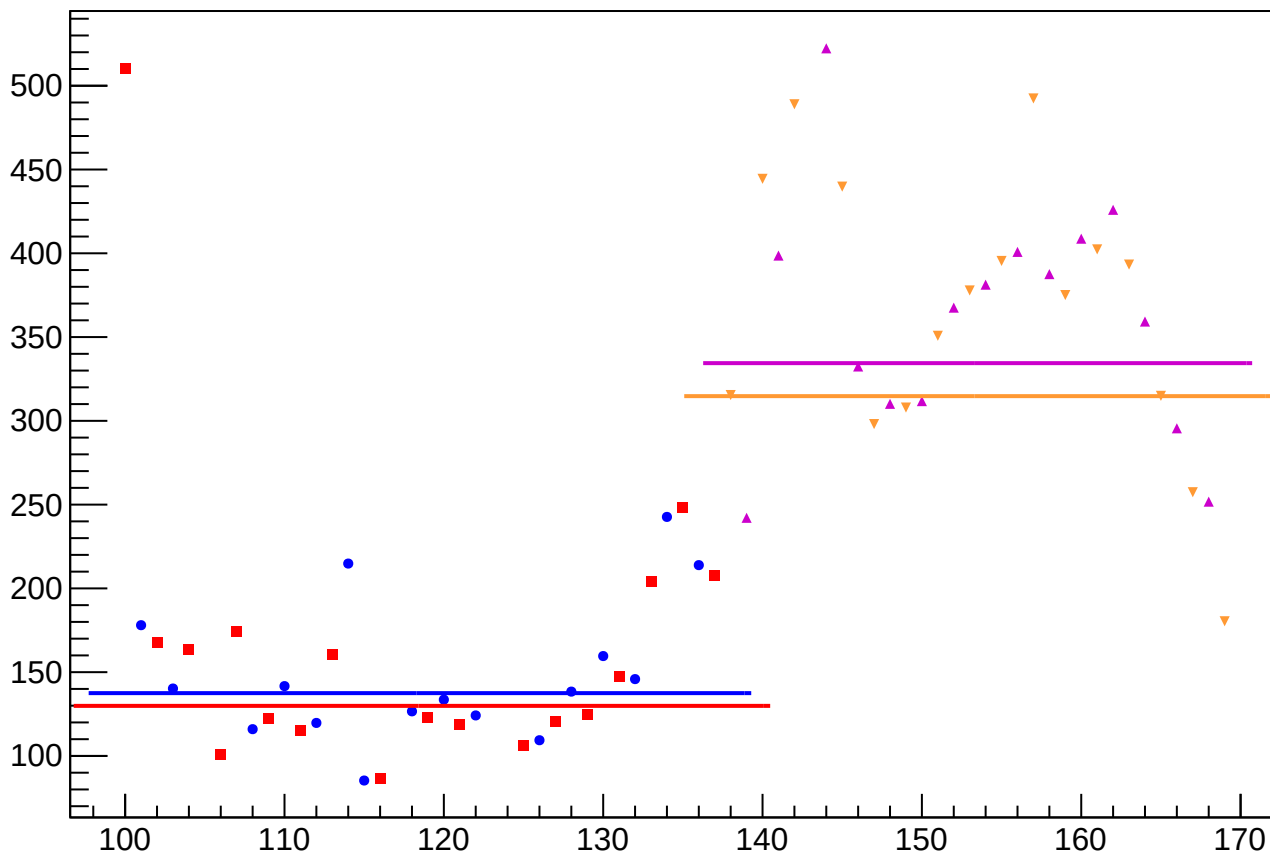
Right: 0.015 ± 0.038 χ^2/NDF : 43.1/33

In: -0.035 ± 0.047 χ^2/NDF : 39.3/30

Out: 0.031 ± 0.046 χ^2/NDF : 49.5/33

All: -0.001 ± 0.033 χ^2/NDF : 89.8/64

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 137.492 $\pm$ 0.038 χ^2 /NDF: 692923.1/15

Left Out: 314.745 $\pm$ 0.066 χ^2 /NDF:1862183.6/15

Right Out: 129.887 $\pm$ 0.037 χ^2 /NDF: 833937.8/17

Left In: 334.441 $\pm$ 0.070 χ^2 /NDF:968396.3/14

Left: 324.071 $\pm$ 0.048 χ^2 /NDF: 2872835.4/30

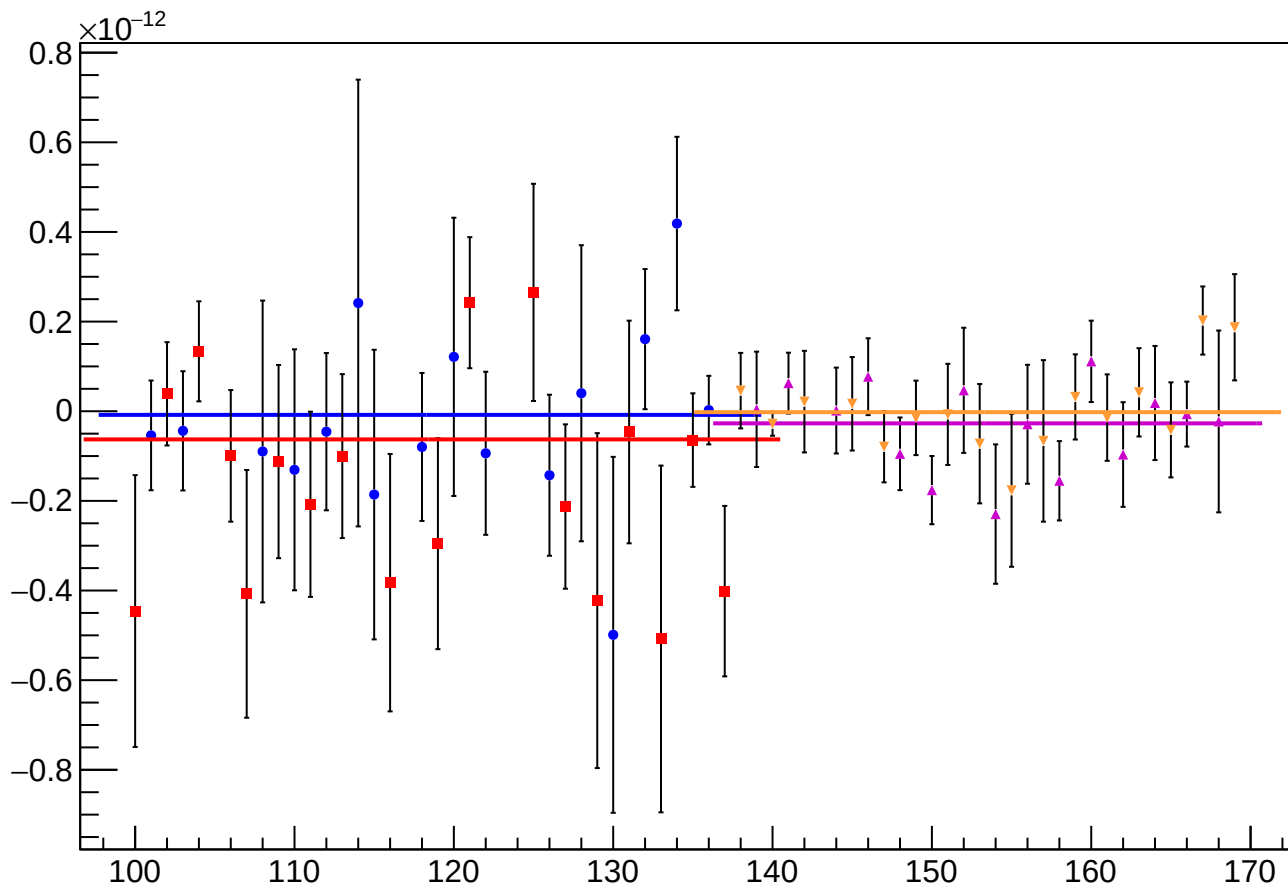
Right: 133.568 $\pm$ 0.027 χ^2 /NDF: 1547174.9/33

In: 183.398 $\pm$ 0.034 χ^2 /NDF:7815406.7/30

Out: 174.380 $\pm$ 0.032 χ^2 /NDF:8665570.6/33

All: 178.722 $\pm$ 0.023 χ^2 /NDF: 16518407.5/64

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 9.8/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:14.0/15

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 22.2/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:14.9/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 29.5/30

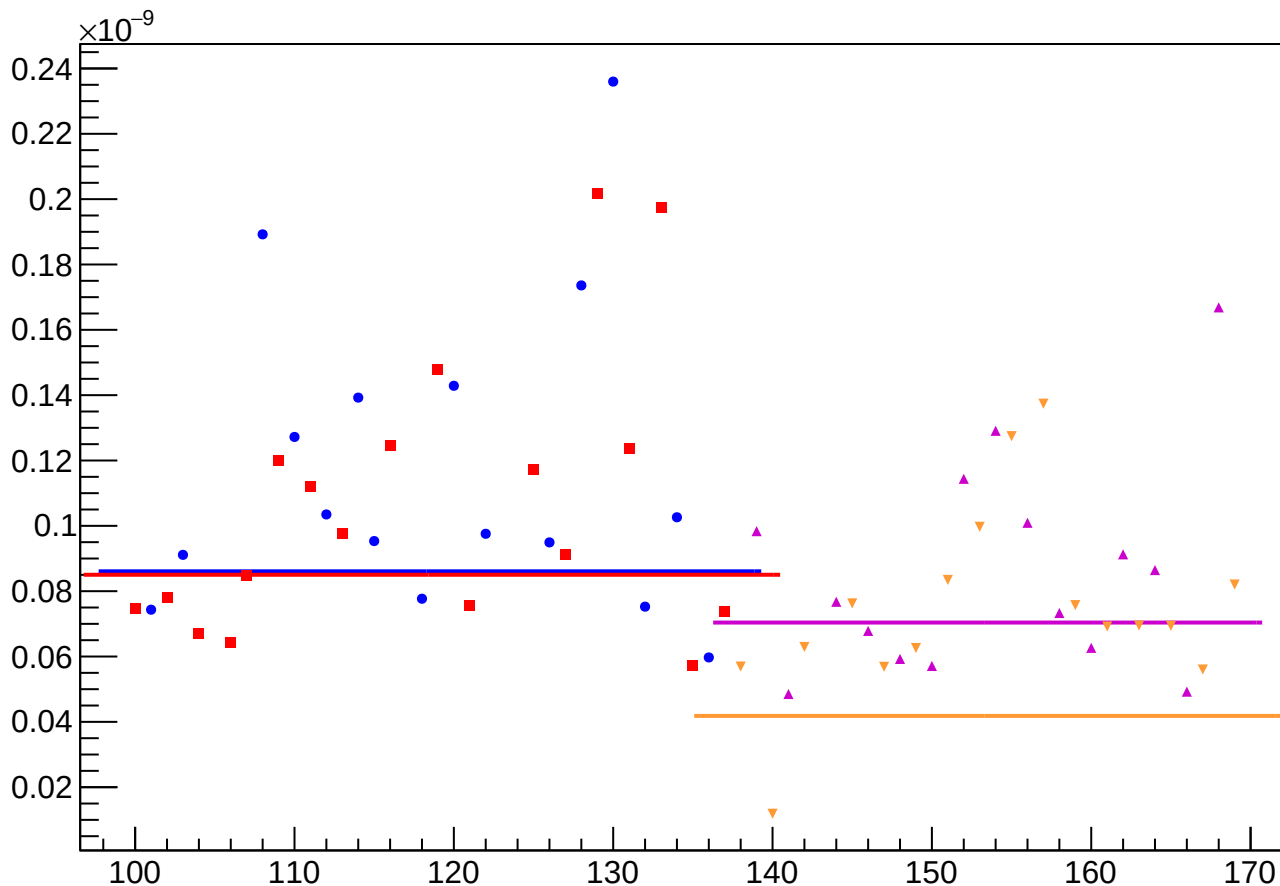
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 32.8/33

In: -0.000 $\pm$ 0.000 χ^2 /NDF:24.8/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:38.0/33

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 62.9/64

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1072075.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 5793582.8/15

Right Out: 0.000+/-0.000 χ^2/NDF : 983211.4/17

Left In: 0.000+/-0.000 χ^2/NDF : 1736153.9/14

Left: 0.000+/-0.000 χ^2/NDF : 9204737.1/30

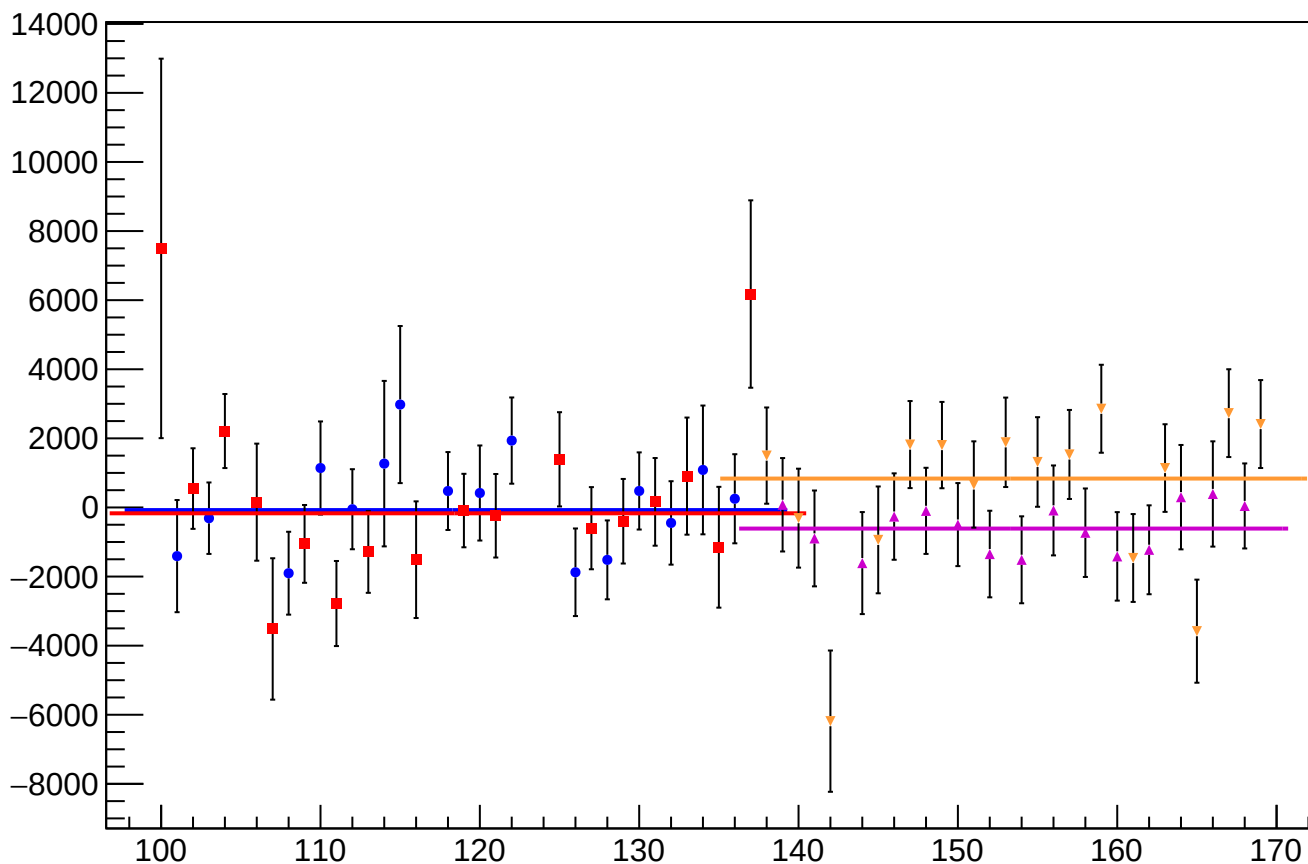
Right: 0.000+/-0.000 χ^2/NDF : 2055907.6/33

In: 0.000+/-0.000 χ^2/NDF : 3010472.7/30

Out: 0.000+/-0.000 χ^2/NDF : 8562918.3/33

All: 0.000+/-0.000 χ^2/NDF : 13284986.6/64

reg_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -75.944 ± 326.226 $\chi^2/\text{NDF}: 13.4/15$

Left Out: 836.273 ± 335.023 $\chi^2/\text{NDF}: 34.7/15$

Right Out: -169.345 ± 321.827 $\chi^2/\text{NDF}: 24.4/17$

Left In: -611.213 ± 338.795 $\chi^2/\text{NDF}: 3.7/14$

Left: 120.634 ± 238.219 $\chi^2/\text{NDF}: 47.6/30$

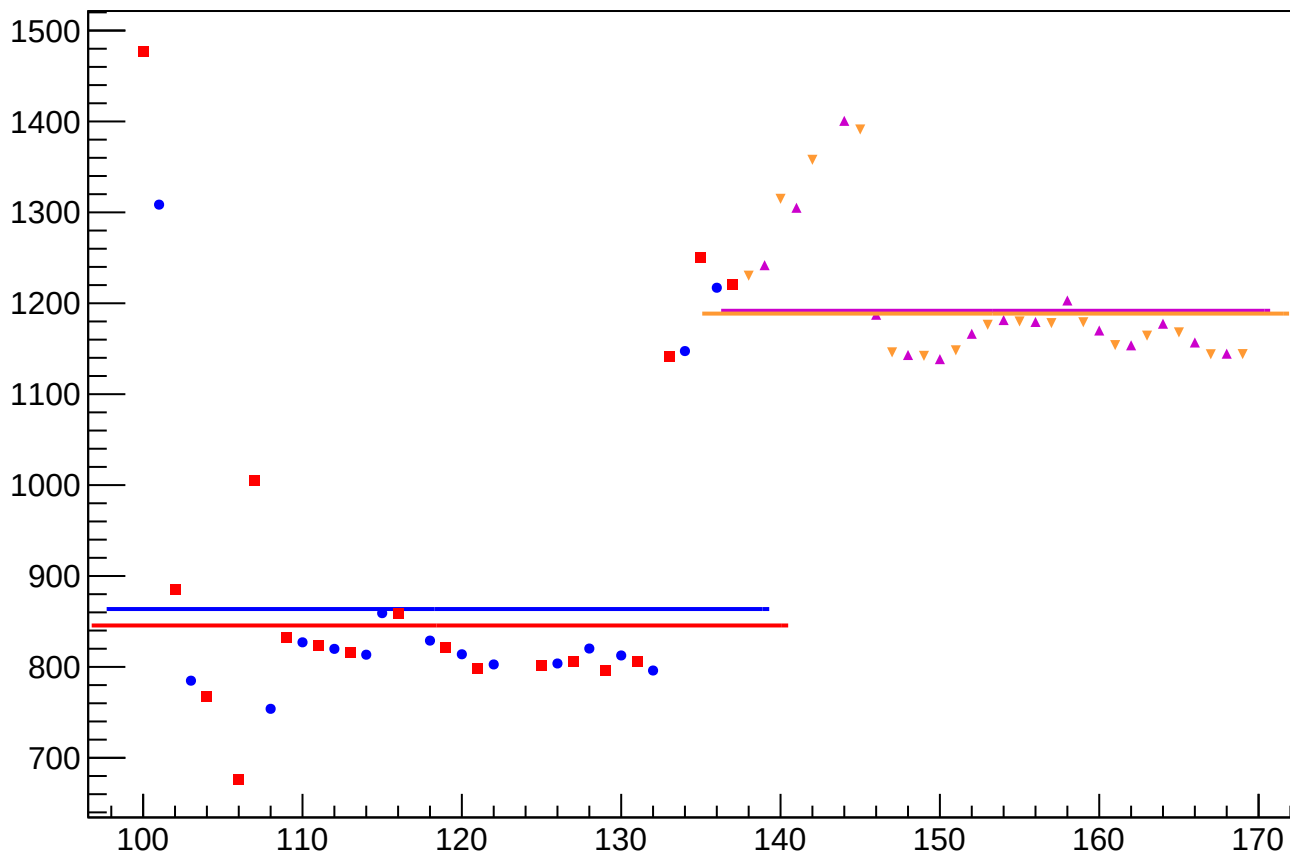
Right: -123.279 ± 229.106 $\chi^2/\text{NDF}: 37.8/33$

In: -333.466 ± 234.995 $\chi^2/\text{NDF}: 18.4/30$

Out: 313.270 ± 232.091 $\chi^2/\text{NDF}: 63.7/33$

All: -6.078 ± 165.130 $\chi^2/\text{NDF}: 86.0/64$

reg_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 863.661+/-0.231 χ^2/NDF : 407498.8/15

Left Out: 1188.641+/-0.237 χ^2/NDF : 80556.1/15

Right Out: 845.579+/-0.225 χ^2/NDF : 307774.6/17

Left In: 1191.733+/-0.240 χ^2/NDF : 70901.8/14

Left: 1190.170+/-0.168 χ^2/NDF : 151542.2/30

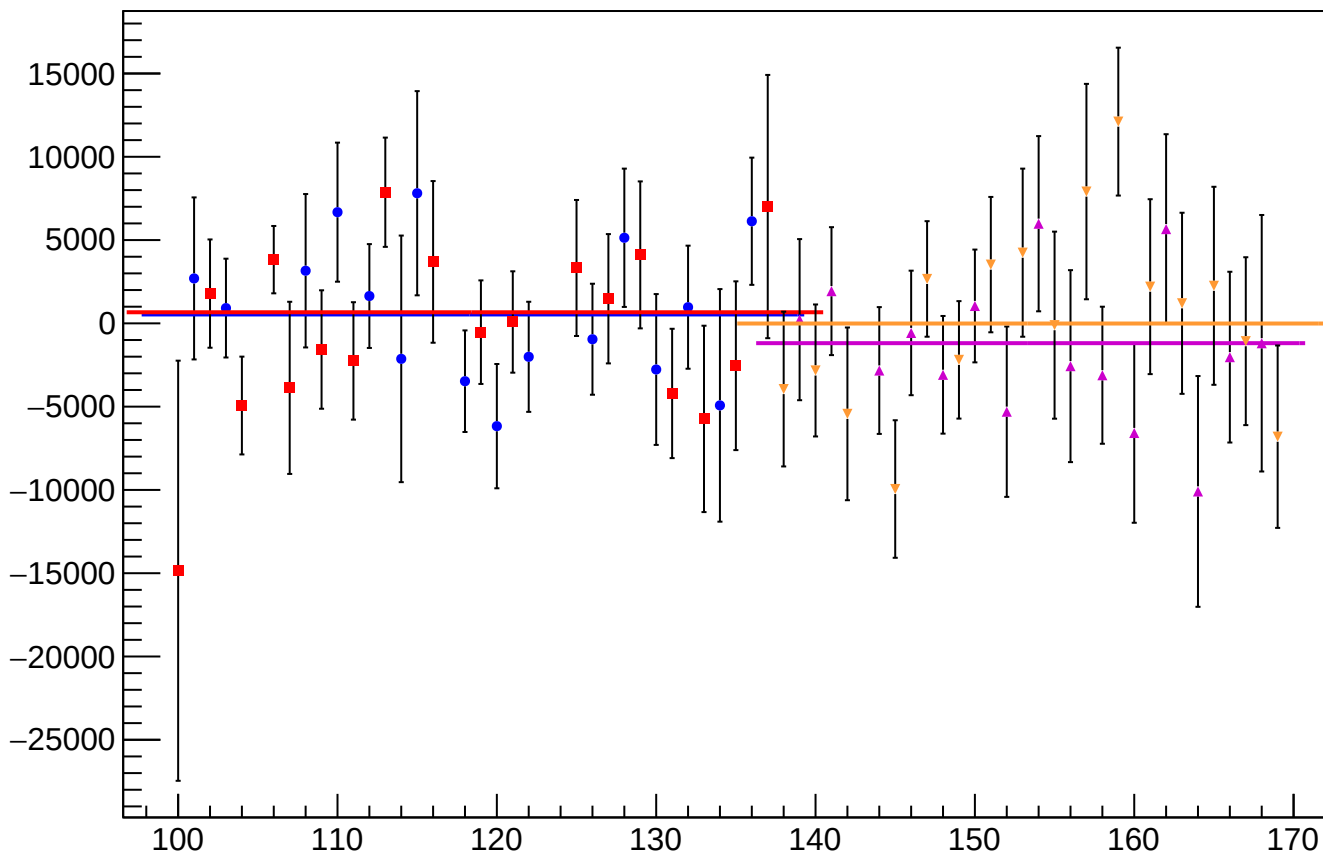
Right: 854.385+/-0.161 χ^2/NDF : 718425.8/33

In: 1021.499+/-0.166 χ^2/NDF : 1451532.8/30

Out: 1008.092+/-0.163 χ^2/NDF : 1492021.2/33

All: 1014.669+/-0.116 χ^2/NDF : 2946870.5/64

asym_usl_atl2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 534.507 $\pm$ 981.290 χ^2 /NDF: 14.7/15

Left Out: -9.703 $\pm$ 1157.156 χ^2 /NDF:21.5/15

Right Out: 665.878 $\pm$ 864.970 χ^2 /NDF: 20.0/17

Left In: -1189.241 $\pm$ 1175.976 χ^2 /NDF:8.6/14

Left: -589.958 $\pm$ 824.806 χ^2 /NDF: 30.6/30

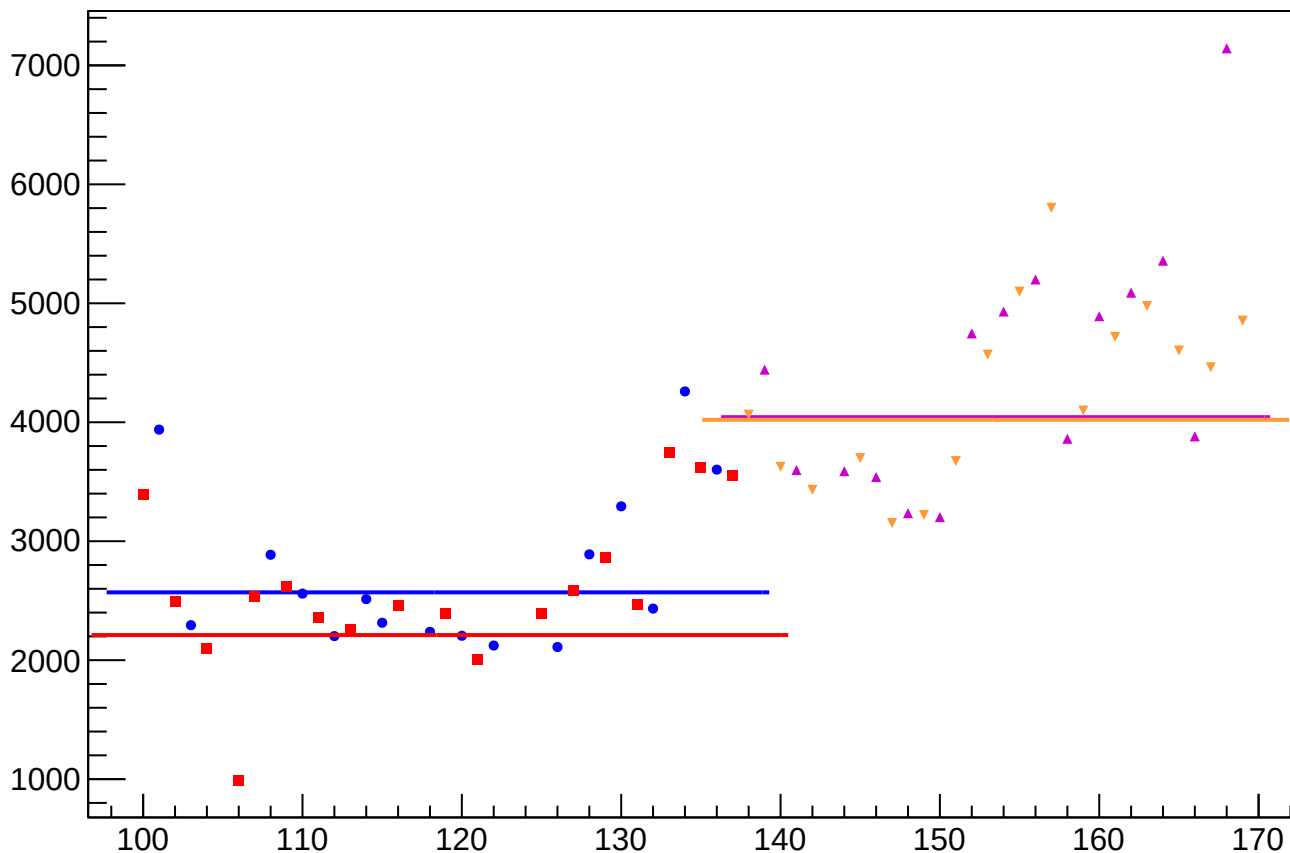
Right: 608.437 $\pm$ 648.874 χ^2 /NDF: 34.6/33

In: -173.061 $\pm$ 753.435 χ^2 /NDF:24.5/30

Out: 423.709 $\pm$ 692.808 χ^2 /NDF:41.7/33

All: 150.297 $\pm$ 509.978 χ^2 /NDF: 66.5/64

asym_usl_atl2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 2570.135+/-0.694 χ^2/NDF : 662477.9/15

Left Out: 4020.509+/-0.818 χ^2/NDF : 728415.7/15

Right Out: 2211.269+/-0.612 χ^2/NDF : 1264087.9/17

Left In: 4042.826+/-0.832 χ^2/NDF : 1027547.7/14

Left: 4031.488+/-0.583 χ^2/NDF : 1756329.3/30

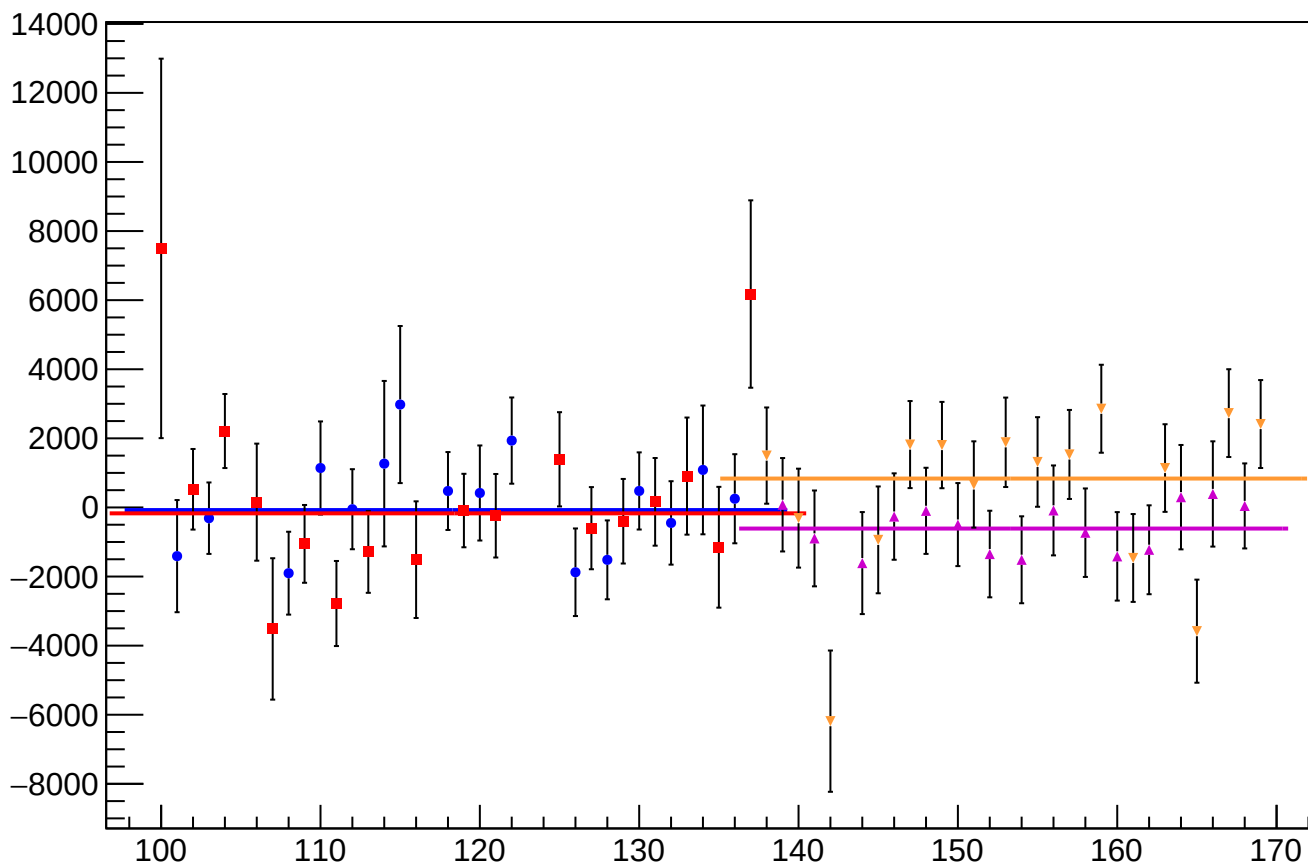
Right: 2368.182+/-0.459 χ^2/NDF : 2077093.7/33

In: 3174.649+/-0.533 χ^2/NDF : 3539093.9/30

Out: 2859.811+/-0.490 χ^2/NDF : 5129123.5/33

All: 3004.055+/-0.361 χ^2/NDF : 8857446.8/64

cor_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -76.022 $\pm$ 326.226 χ^2/NDF : 13.3/15

Left Out: 836.264 $\pm$ 335.023 χ^2/NDF : 34.7/15

Right Out: -170.982 $\pm$ 321.832 χ^2/NDF : 24.4/17

Left In: -611.214 $\pm$ 338.795 χ^2/NDF : 3.7/14

Left: 120.629 $\pm$ 238.220 χ^2/NDF : 47.6/30

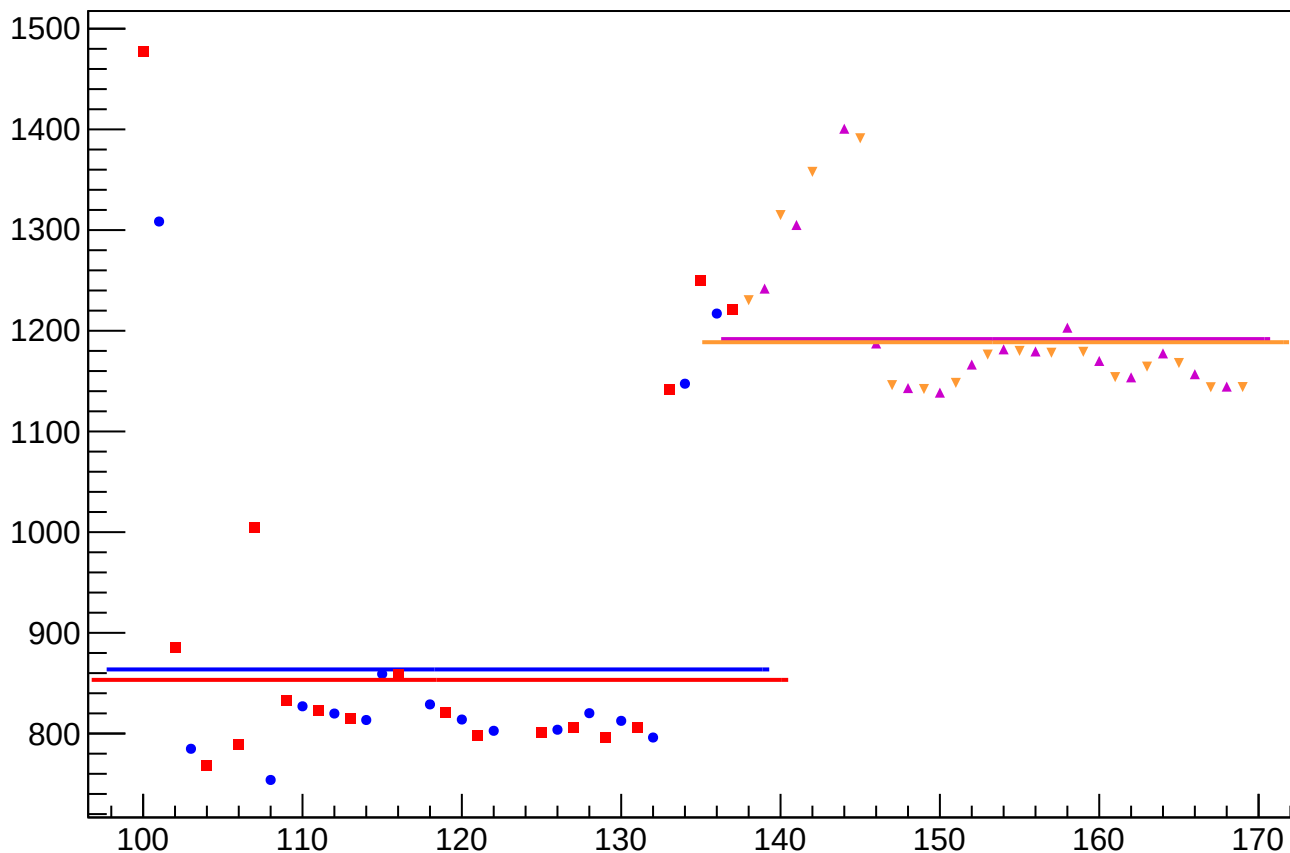
Right: -124.146 $\pm$ 229.107 χ^2/NDF : 37.7/33

In: -333.506 $\pm$ 234.995 χ^2/NDF : 18.4/30

Out: 312.422 $\pm$ 232.093 χ^2/NDF : 63.7/33

All: -6.529 $\pm$ 165.131 χ^2/NDF : 85.9/64

cor_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 863.661 $\pm$ 0.231 χ^2 /NDF: 407498.5/15

Left Out: 1188.641 $\pm$ 0.237 χ^2 /NDF: 80556.1/15

Right Out: 853.289 $\pm$ 0.226 χ^2 /NDF: 275357.1/17

Left In: 1191.733 $\pm$ 0.240 χ^2 /NDF: 70901.8/14

Left: 1190.170 $\pm$ 0.168 χ^2 /NDF: 151542.1/30

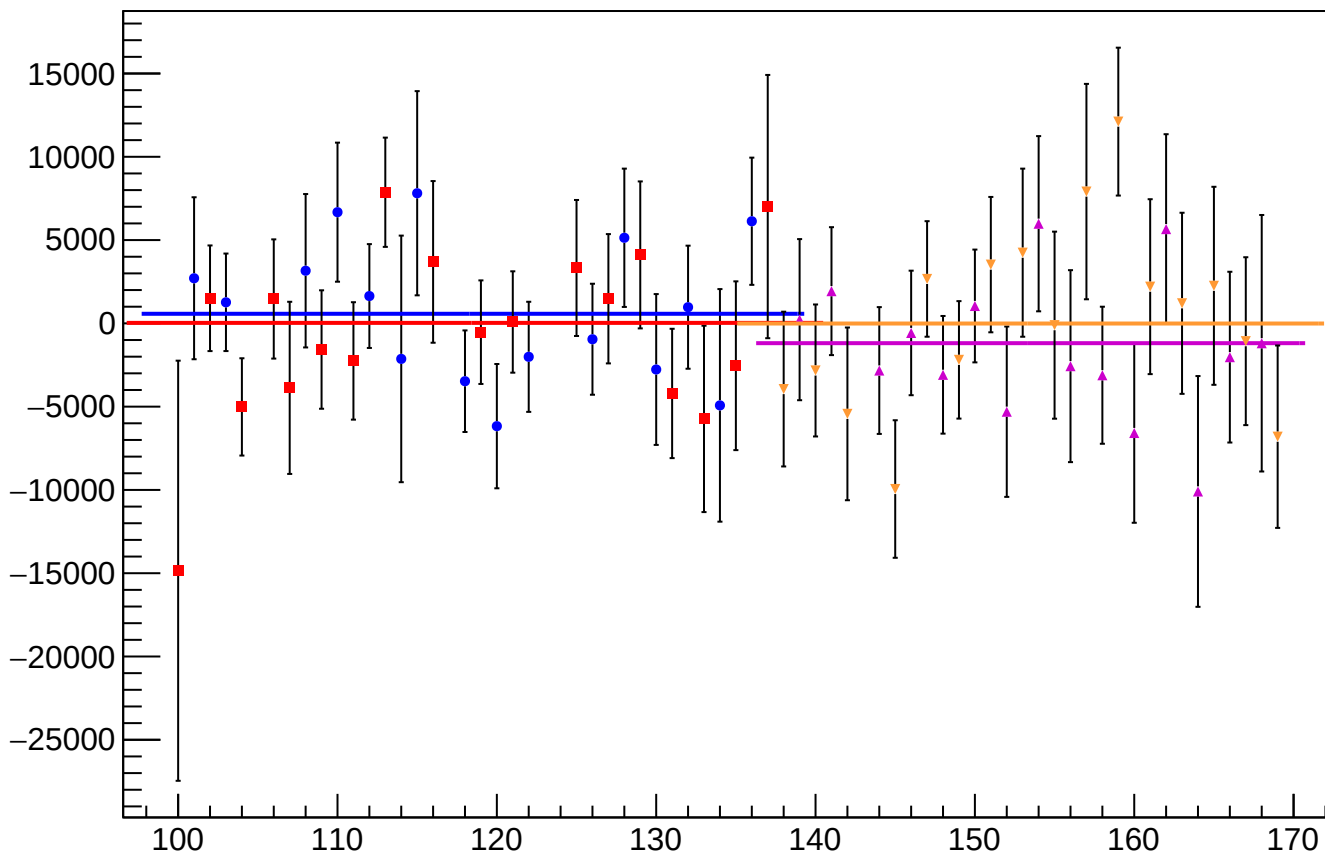
Right: 858.378 $\pm$ 0.162 χ^2 /NDF: 683885.4/33

In: 1021.499 $\pm$ 0.166 χ^2 /NDF: 1451532.9/30

Out: 1013.367 $\pm$ 0.164 χ^2 /NDF: 1403278.0/33

All: 1017.371 $\pm$ 0.117 χ^2 /NDF: 2856026.6/64

asym_usl_atl2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 574.964+/-979.856 χ^2/NDF : 14.7/15

Left Out: -9.687+/-1157.156 χ^2/NDF :21.5/15

Right Out: 28.604+/-922.115 χ^2/NDF : 17.2/17

Left In: -1189.277+/-1175.975 χ^2/NDF :8.6/14

Left: -589.968+/-824.806 χ^2/NDF : 30.6/30

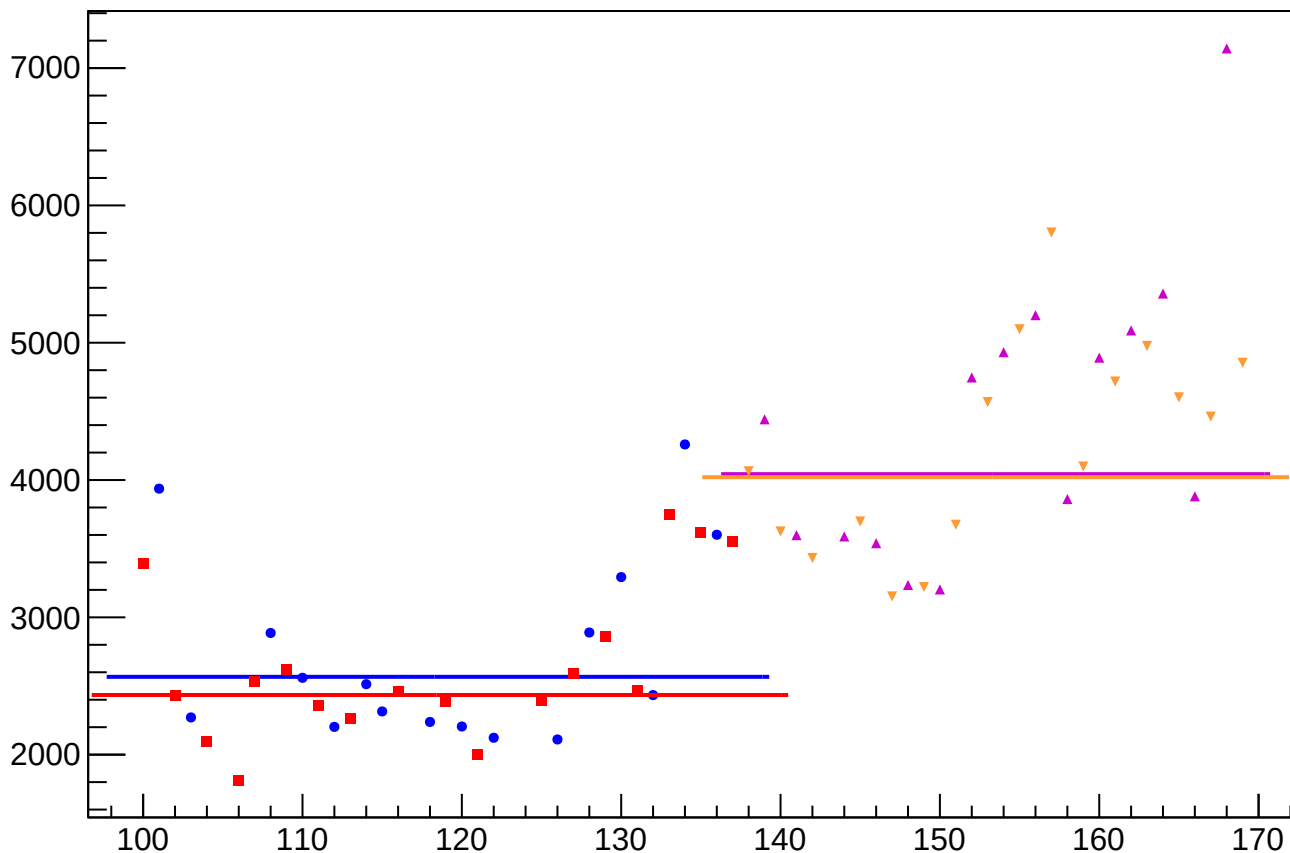
Right: 285.212+/-671.519 χ^2/NDF : 32.1/33

In: -147.978+/-752.785 χ^2/NDF :24.6/30

Out: 13.732+/-721.147 χ^2/NDF :38.7/33

All: -63.653+/-520.754 χ^2/NDF : 63.3/64

asym_usl_atl2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2566.732+/-0.693 χ^2/NDF : 665871.6/15

Left Out: 4020.510+/-0.818 χ^2/NDF : 728415.9/15

Right Out: 2434.430+/-0.652 χ^2/NDF : 434078.9/17

Left In: 4042.821+/-0.832 χ^2/NDF : 1027550.8/14

Left: 4031.486+/-0.583 χ^2/NDF : 1756332.4/30

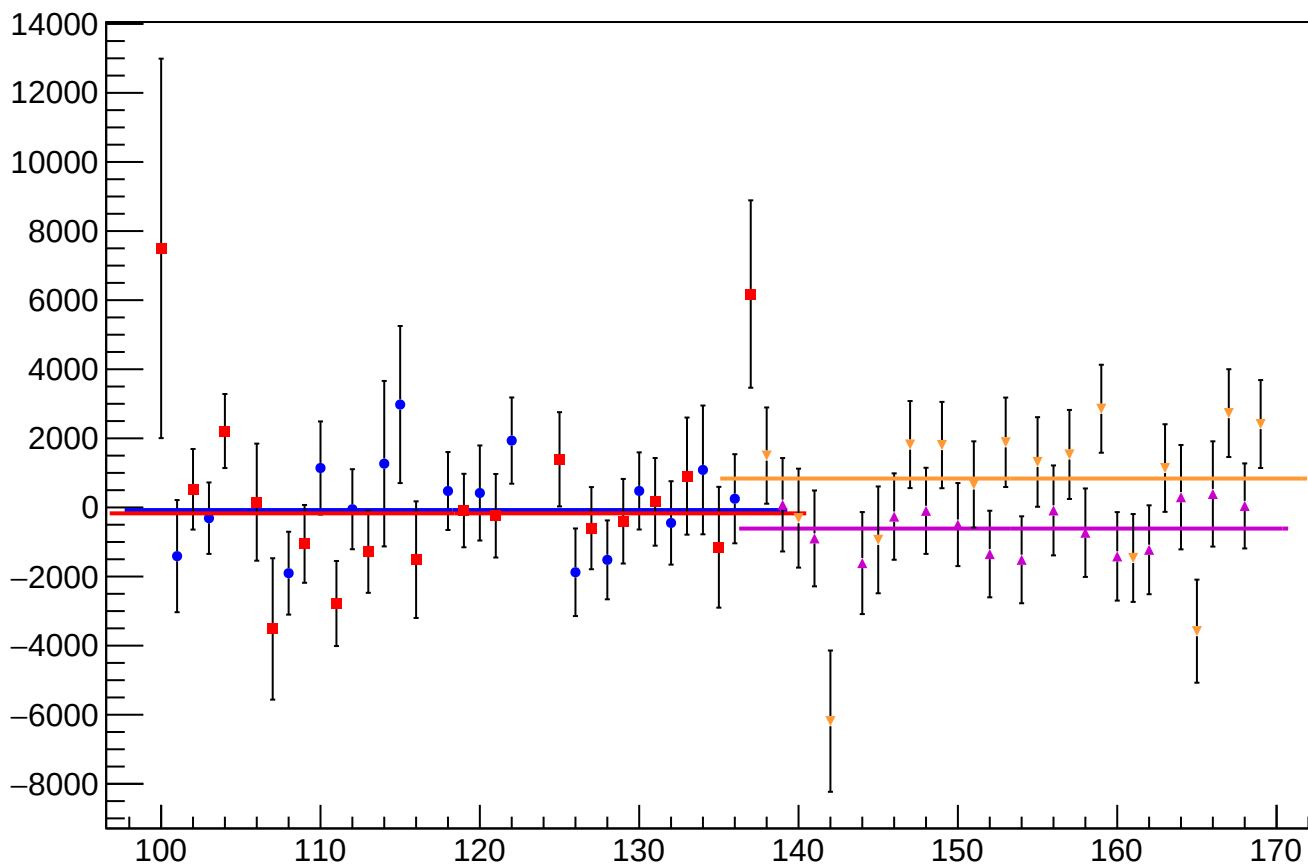
Right: 2496.568+/-0.475 χ^2/NDF : 1119287.3/33

In: 3171.597+/-0.532 χ^2/NDF : 3553265.5/30

Out: 3050.441+/-0.510 χ^2/NDF : 3460619.7/33

All: 3108.420+/-0.368 χ^2/NDF : 7040899.4/64

eigen_cor_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -76.022 ± 326.226 $\chi^2/\text{NDF}: 13.3/15$

Left Out: 836.264 ± 335.023 $\chi^2/\text{NDF}: 34.7/15$

Right Out: -170.982 ± 321.832 $\chi^2/\text{NDF}: 24.4/17$

Left In: -611.214 ± 338.795 $\chi^2/\text{NDF}: 3.7/14$

Left: 120.629 ± 238.220 $\chi^2/\text{NDF}: 47.6/30$

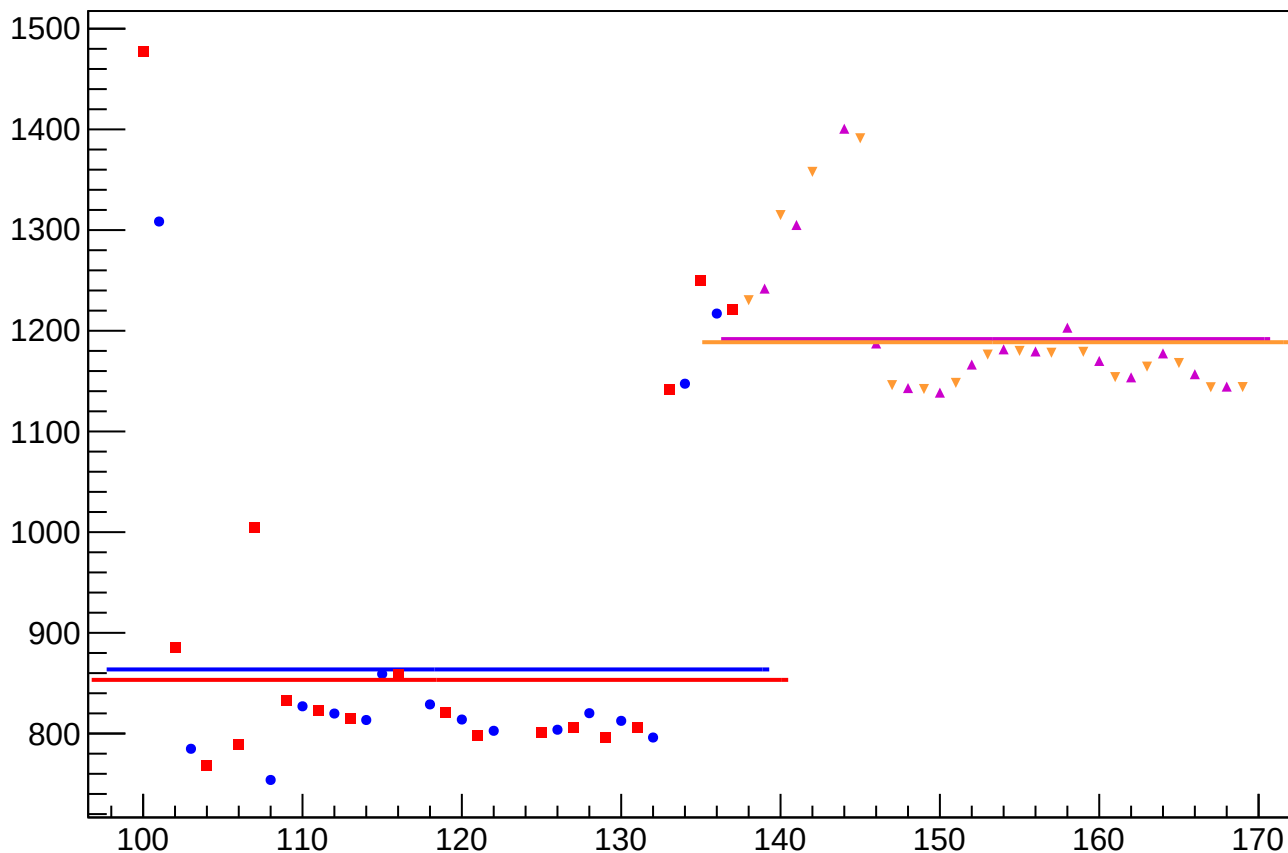
Right: -124.146 ± 229.107 $\chi^2/\text{NDF}: 37.7/33$

In: -333.506 ± 234.995 $\chi^2/\text{NDF}: 18.4/30$

Out: 312.422 ± 232.093 $\chi^2/\text{NDF}: 63.7/33$

All: -6.529 ± 165.131 $\chi^2/\text{NDF}: 85.9/64$

eigen_cor_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 863.661+/-0.231 χ^2/NDF : 407498.5/15

Left Out: 1188.641+/-0.237 χ^2/NDF : 80556.1/15

Right Out: 853.289+/-0.226 χ^2/NDF : 275357.1/17

Left In: 1191.733+/-0.240 χ^2/NDF : 70901.8/14

Left: 1190.170+/-0.168 χ^2/NDF : 151542.1/30

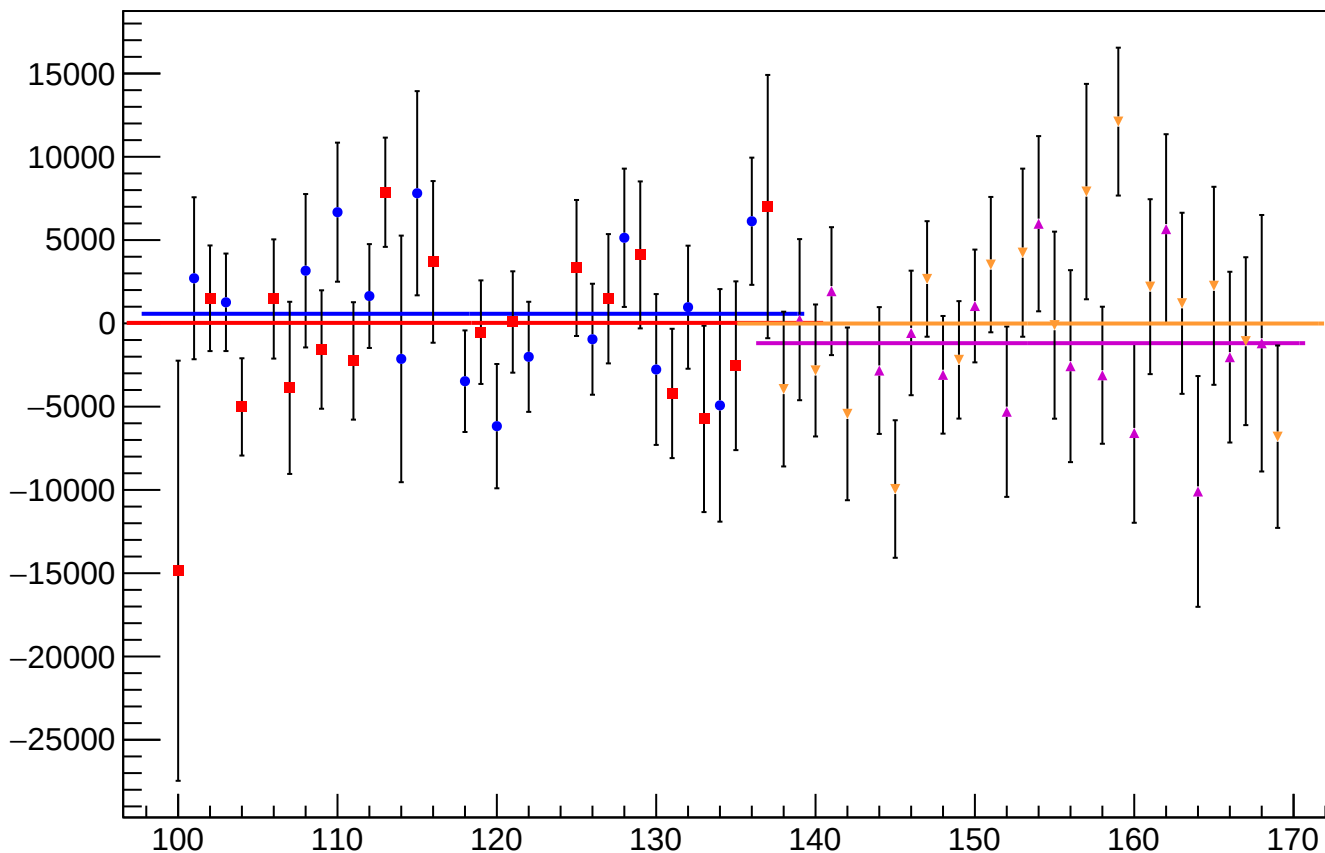
Right: 858.378+/-0.162 χ^2/NDF : 683885.4/33

In: 1021.499+/-0.166 χ^2/NDF : 1451532.9/30

Out: 1013.367+/-0.164 χ^2/NDF : 1403278.0/33

All: 1017.371+/-0.117 χ^2/NDF : 2856026.6/64

asym_usl_atl2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 574.964 $\pm$ 979.856 χ^2 /NDF: 14.7/15

Left Out: -9.687 $\pm$ 1157.156 χ^2 /NDF:21.5/15

Right Out: 28.604 $\pm$ 922.115 χ^2 /NDF: 17.2/17

Left In: -1189.277 $\pm$ 1175.975 χ^2 /NDF:8.6/14

Left: -589.968 $\pm$ 824.806 χ^2 /NDF: 30.6/30

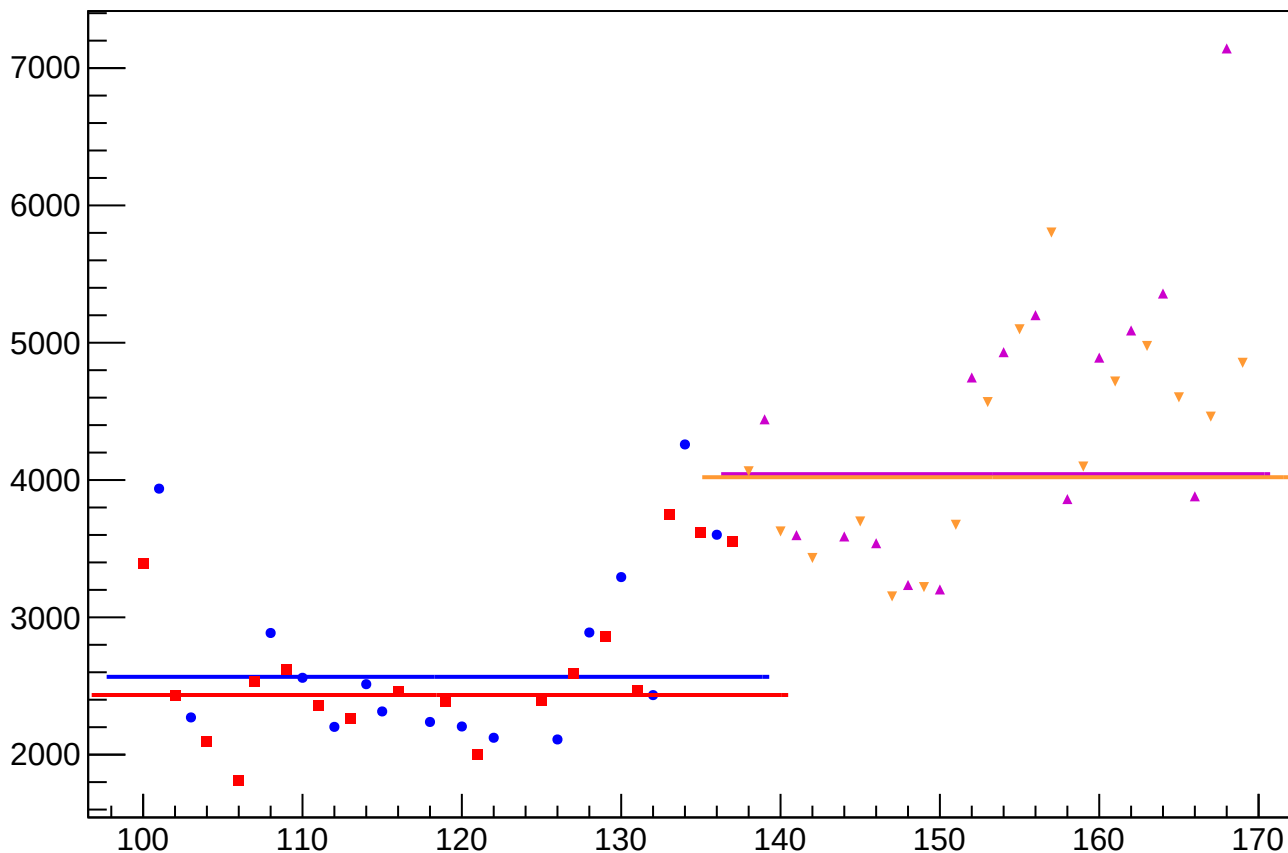
Right: 285.212 $\pm$ 671.519 χ^2 /NDF: 32.1/33

In: -147.978 $\pm$ 752.785 χ^2 /NDF:24.6/30

Out: 13.732 $\pm$ 721.147 χ^2 /NDF:38.7/33

All: -63.653 $\pm$ 520.754 χ^2 /NDF: 63.3/64

asym_usl_atl2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2566.732 $\pm$ 0.693 χ^2/NDF : 665871.6/15

Left Out: 4020.510 $\pm$ 0.818 χ^2/NDF : 728415.9/15

Right Out: 2434.430 $\pm$ 0.652 χ^2/NDF : 434078.9/17

Left In: 4042.821 $\pm$ 0.832 χ^2/NDF : 1027550.8/14

Left: 4031.486 $\pm$ 0.583 χ^2/NDF : 1756332.4/30

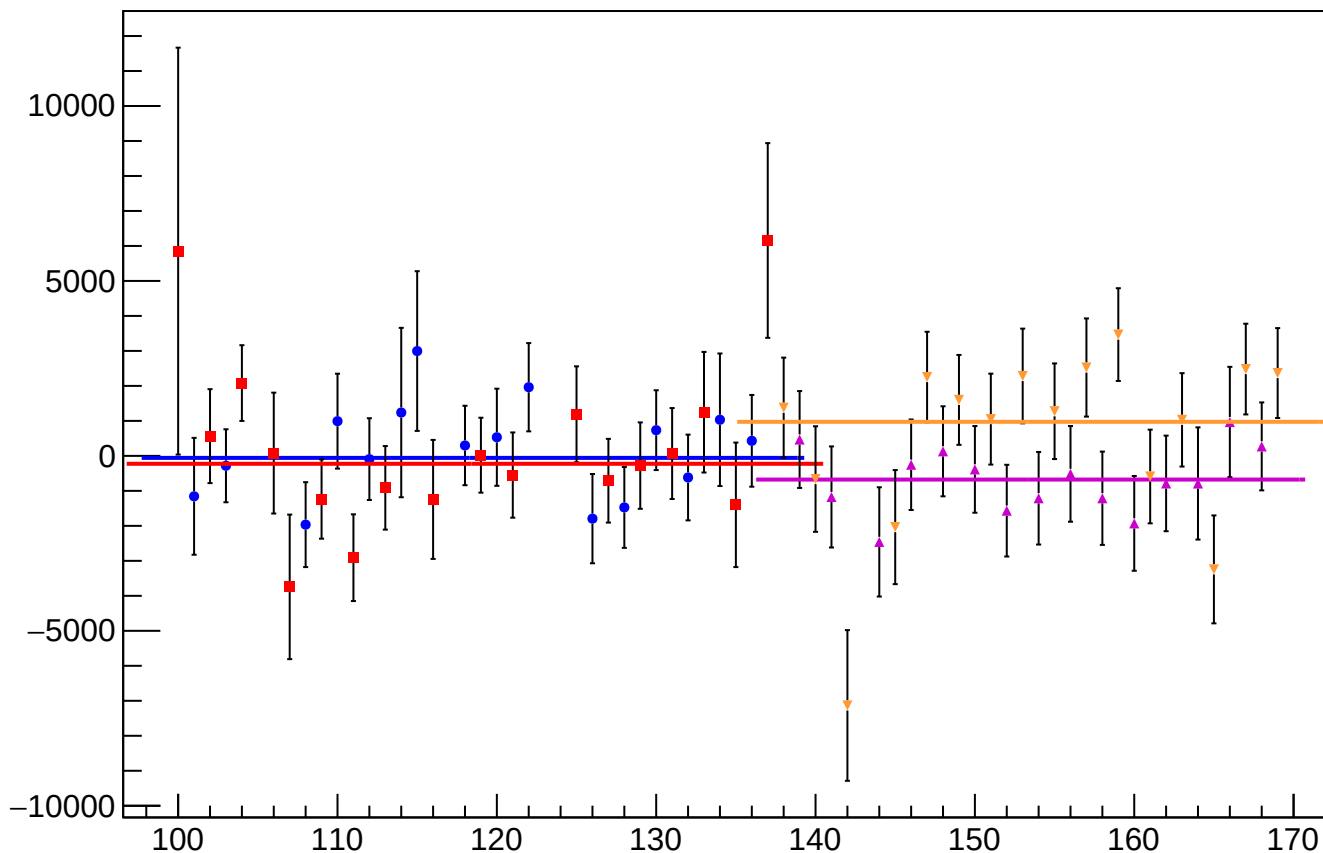
Right: 2496.568 $\pm$ 0.475 χ^2/NDF : 1119287.3/33

In: 3171.597 $\pm$ 0.532 χ^2/NDF : 3553265.5/30

Out: 3050.441 $\pm$ 0.510 χ^2/NDF : 3460619.7/33

All: 3108.420 $\pm$ 0.368 χ^2/NDF : 7040899.4/64

dit_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -57.208 $\pm$ 330.088 χ^2/NDF : 13.0/15

Left Out: 973.445 $\pm$ 348.911 χ^2/NDF : 37.2/15

Right Out: -226.075 $\pm$ 328.069 χ^2/NDF : 22.9/17

Left In: -676.964 $\pm$ 353.087 χ^2/NDF : 6.0/14

Left: 158.059 $\pm$ 248.181 χ^2/NDF : 54.2/30

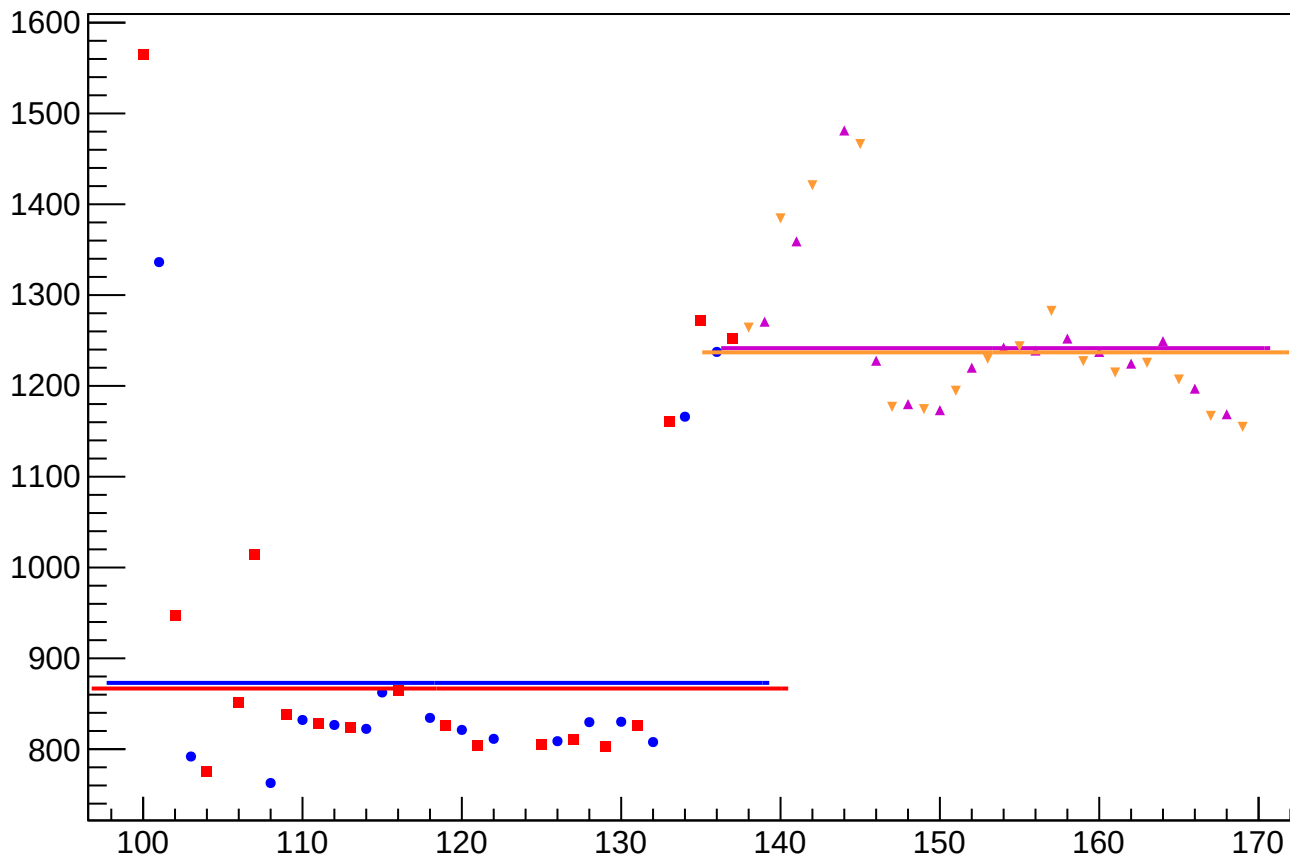
Right: -142.159 $\pm$ 232.690 χ^2/NDF : 36.0/33

In: -346.245 $\pm$ 241.129 χ^2/NDF : 20.6/30

Out: 336.790 $\pm$ 239.008 χ^2/NDF : 66.4/33

All: -1.711 $\pm$ 169.749 χ^2/NDF : 91.0/64

dit_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 872.971 $\pm$ 0.233 χ^2 /NDF: 417099.2/15

Left Out: 1236.942 $\pm$ 0.247 χ^2 /NDF:102952.9/15

Right Out: 866.772 $\pm$ 0.232 χ^2 /NDF: 290386.4/17

Left In: 1241.559 $\pm$ 0.250 χ^2 /NDF:81527.2/14

Left: 1239.223 $\pm$ 0.175 χ^2 /NDF: 184653.1/30

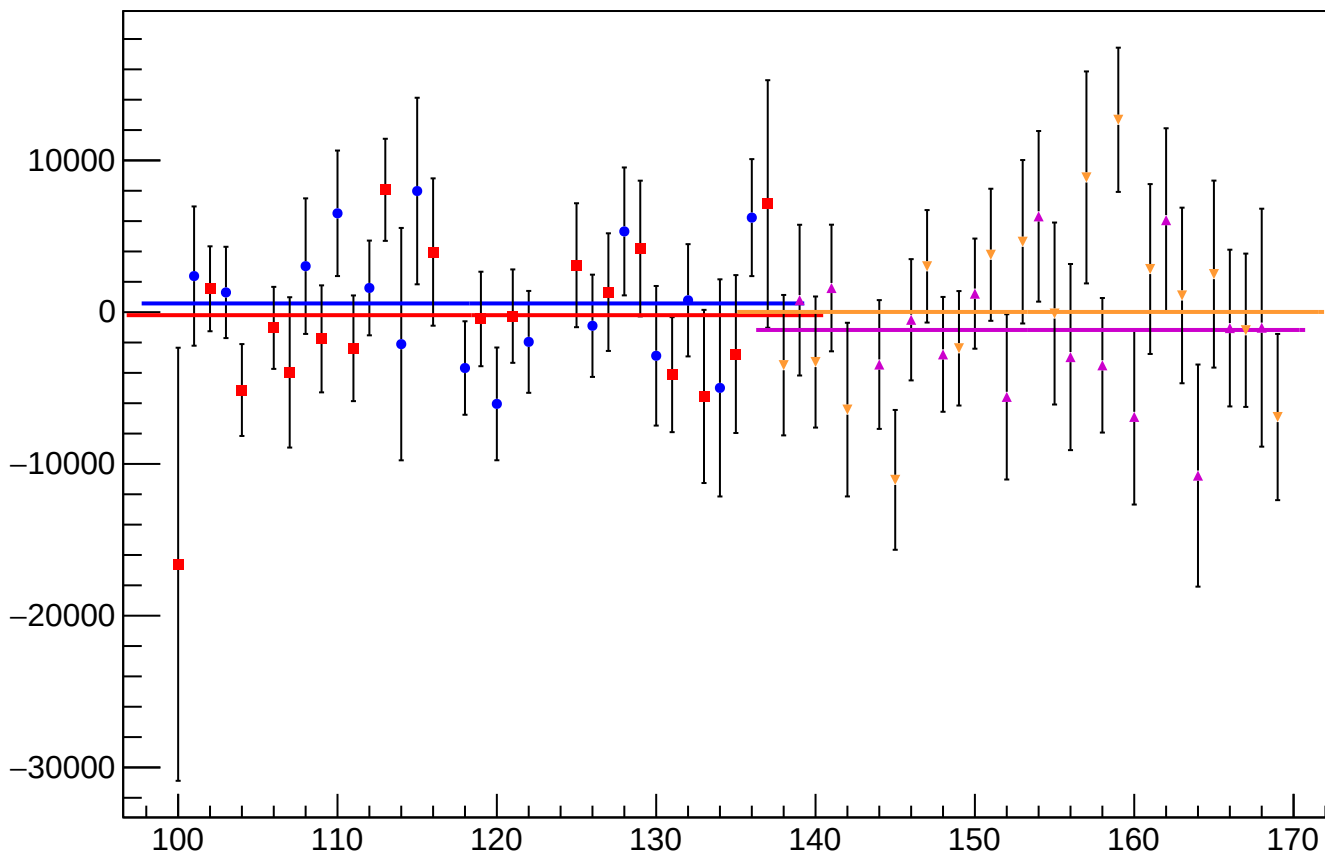
Right: 869.850 $\pm$ 0.164 χ^2 /NDF: 707840.8/33

In: 1044.871 $\pm$ 0.171 χ^2 /NDF:1661641.1/30

Out: 1040.289 $\pm$ 0.169 χ^2 /NDF:1589260.3/33

All: 1042.558 $\pm$ 0.120 χ^2 /NDF: 3251265.8/64

asym_usl_atl2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 575.271+/-984.888 χ^2/NDF : 14.7/15

Left Out: 14.614+/-1229.367 χ^2/NDF : 21.6/15

Right Out: -197.953+/-894.121 χ^2/NDF : 17.2/17

Left In: -1172.659+/-1255.429 χ^2/NDF : 8.4/14

Left: -566.571+/-878.363 χ^2/NDF : 30.5/30

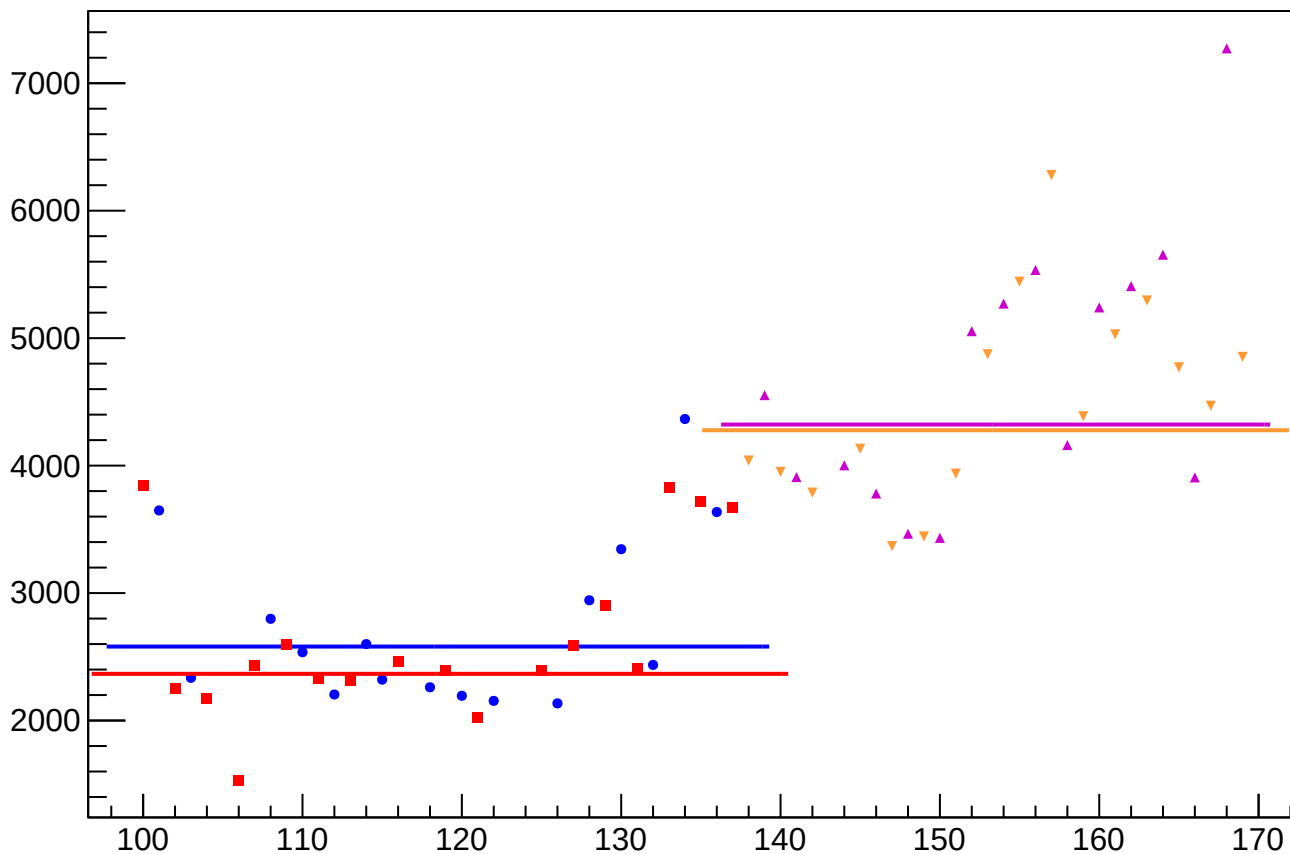
Right: 151.395+/-662.008 χ^2/NDF : 32.2/33

In: -90.648+/-774.891 χ^2/NDF : 24.3/30

Out: -124.413+/-723.098 χ^2/NDF : 38.8/33

All: -108.696+/-528.670 χ^2/NDF : 63.1/64

asym_usl_atl2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2580.377+/-0.696 χ^2/NDF : 617156.1/15

Left Out: 4277.468+/-0.869 χ^2/NDF : 665041.7/15

Right Out: 2366.412+/-0.632 χ^2/NDF : 611695.1/17

Left In: 4322.270+/-0.888 χ^2/NDF : 945933.0/14

Left: 4299.399+/-0.621 χ^2/NDF : 1612274.9/30

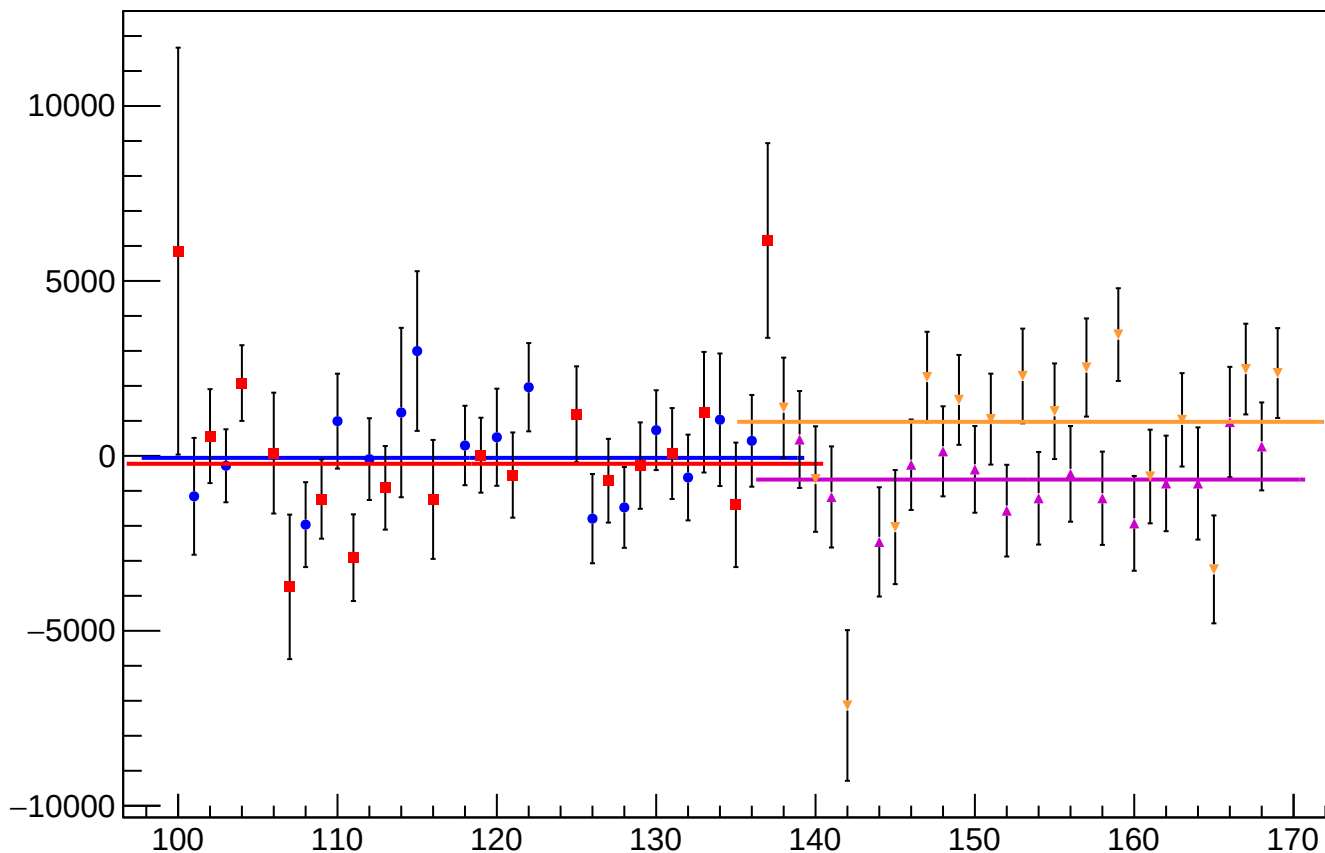
Right: 2463.083+/-0.468 χ^2/NDF : 1280596.8/33

In: 3243.996+/-0.548 χ^2/NDF : 3946488.6/30

Out: 3027.569+/-0.511 χ^2/NDF : 4437669.3/33

All: 3128.309+/-0.374 χ^2/NDF : 8467554.0/64

eigen_dit_asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -57.211 ± 330.088 χ^2/NDF : 13.0/15

Left Out: 973.447 ± 348.911 χ^2/NDF : 37.2/15

Right Out: -226.078 ± 328.069 χ^2/NDF : 22.9/17

Left In: -676.964 ± 353.088 χ^2/NDF : 6.0/14

Left: 158.061 ± 248.181 χ^2/NDF : 54.2/30

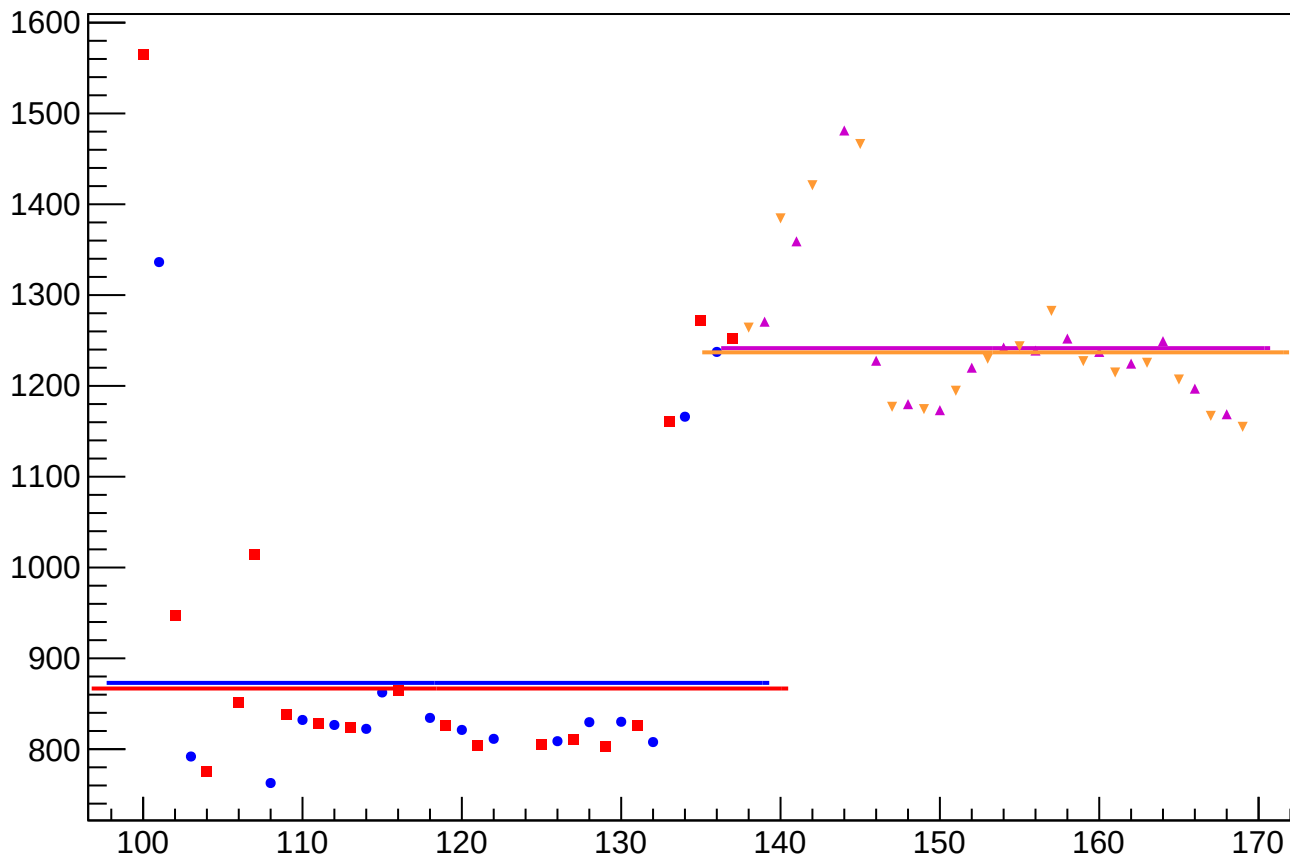
Right: -142.162 ± 232.690 χ^2/NDF : 36.0/33

In: -346.246 ± 241.129 χ^2/NDF : 20.6/30

Out: 336.789 ± 239.008 χ^2/NDF : 66.4/33

All: -1.712 ± 169.749 χ^2/NDF : 91.0/64

eigen_dit_asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 872.972 $\pm$ 0.233 χ^2 /NDF: 417098.9/15

Left Out: 1236.943 $\pm$ 0.247 χ^2 /NDF:102954.7/15

Right Out: 866.772 $\pm$ 0.232 χ^2 /NDF: 290386.6/17

Left In: 1241.560 $\pm$ 0.250 χ^2 /NDF:81528.0/14

Left: 1239.224 $\pm$ 0.175 χ^2 /NDF: 184655.8/30

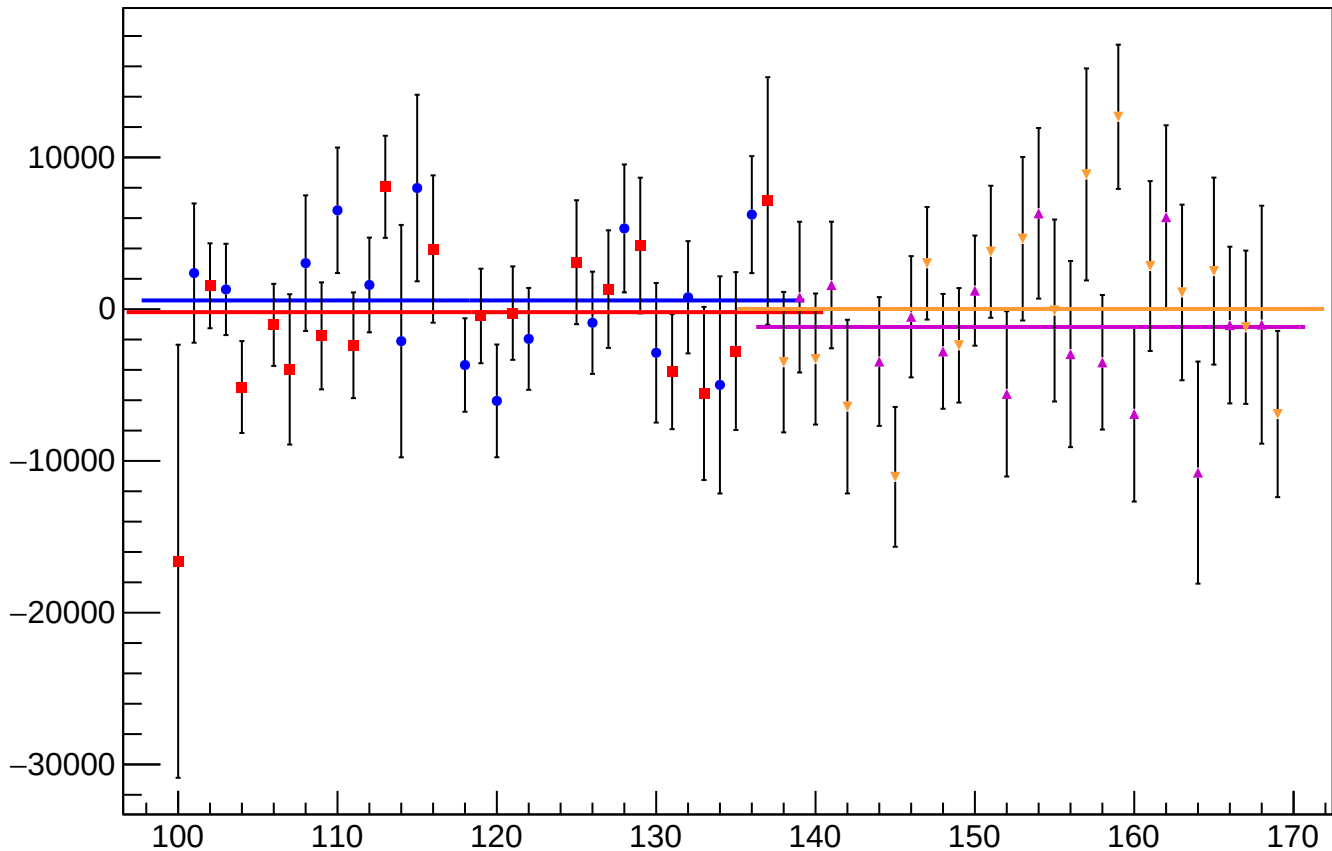
Right: 869.850 $\pm$ 0.164 χ^2 /NDF: 707840.8/33

In: 1044.871 $\pm$ 0.171 χ^2 /NDF:1661648.3/30

Out: 1040.289 $\pm$ 0.169 χ^2 /NDF:1589268.7/33

All: 1042.559 $\pm$ 0.120 χ^2 /NDF: 3251281.5/64

asym_usl_atl2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 575.266+/-984.885 χ^2/NDF : 14.7/15

Left Out: 14.615+/-1229.368 χ^2/NDF : 21.6/15

Right Out: -197.955+/-894.119 χ^2/NDF : 17.2/17

Left In: -1172.659+/-1255.430 χ^2/NDF : 8.4/14

Left: -566.571+/-878.364 χ^2/NDF : 30.5/30

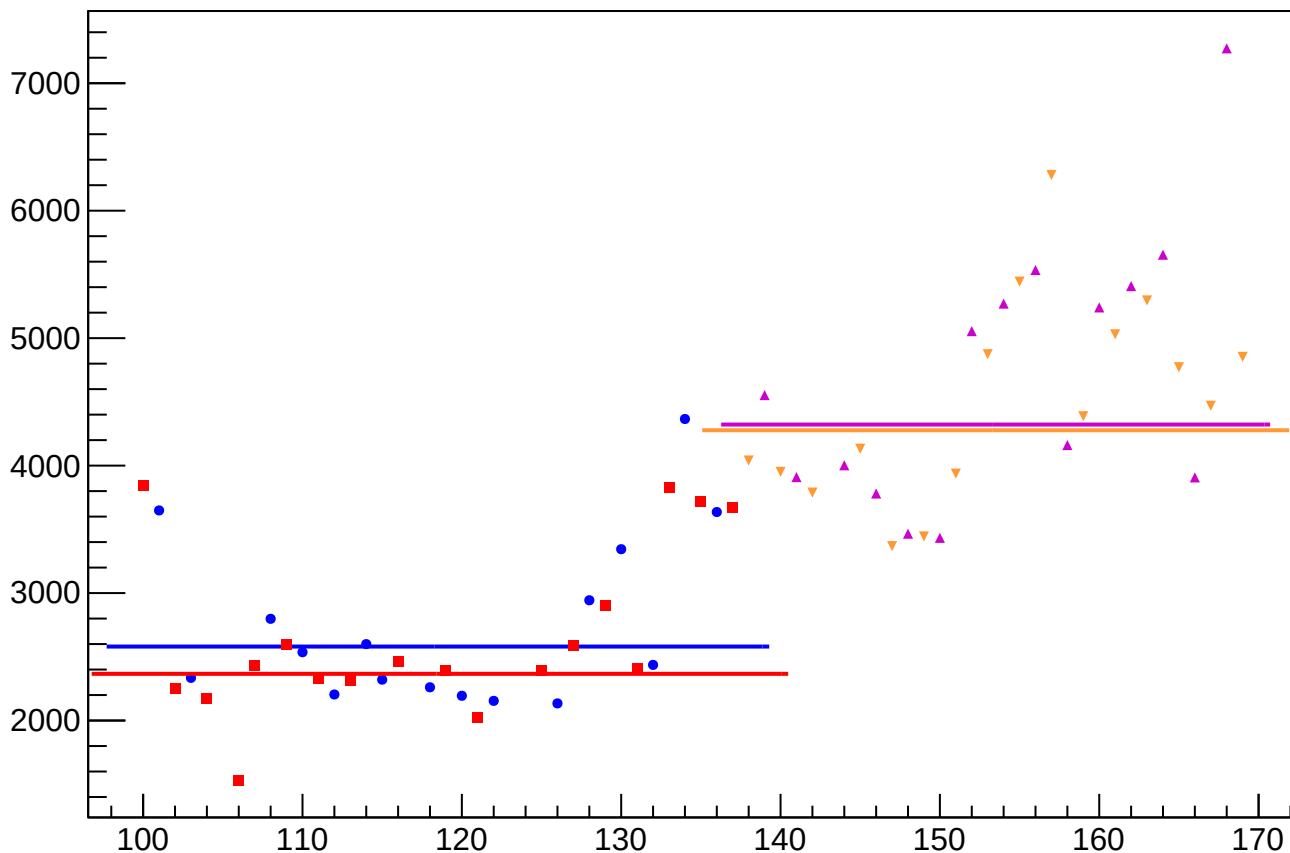
Right: 151.392+/-662.006 χ^2/NDF : 32.2/33

In: -90.647+/-774.890 χ^2/NDF : 24.3/30

Out: -124.414+/-723.097 χ^2/NDF : 38.8/33

All: -108.697+/-528.669 χ^2/NDF : 63.1/64

asym_usl_atl2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2580.368+/-0.696 χ^2/NDF : 617163.3/15

Left Out: 4277.474+/-0.869 χ^2/NDF : 665044.5/15

Right Out: 2366.405+/-0.632 χ^2/NDF : 611698.8/17

Left In: 4322.276+/-0.888 χ^2/NDF : 945936.8/14

Left: 4299.405+/-0.621 χ^2/NDF : 1612281.6/30

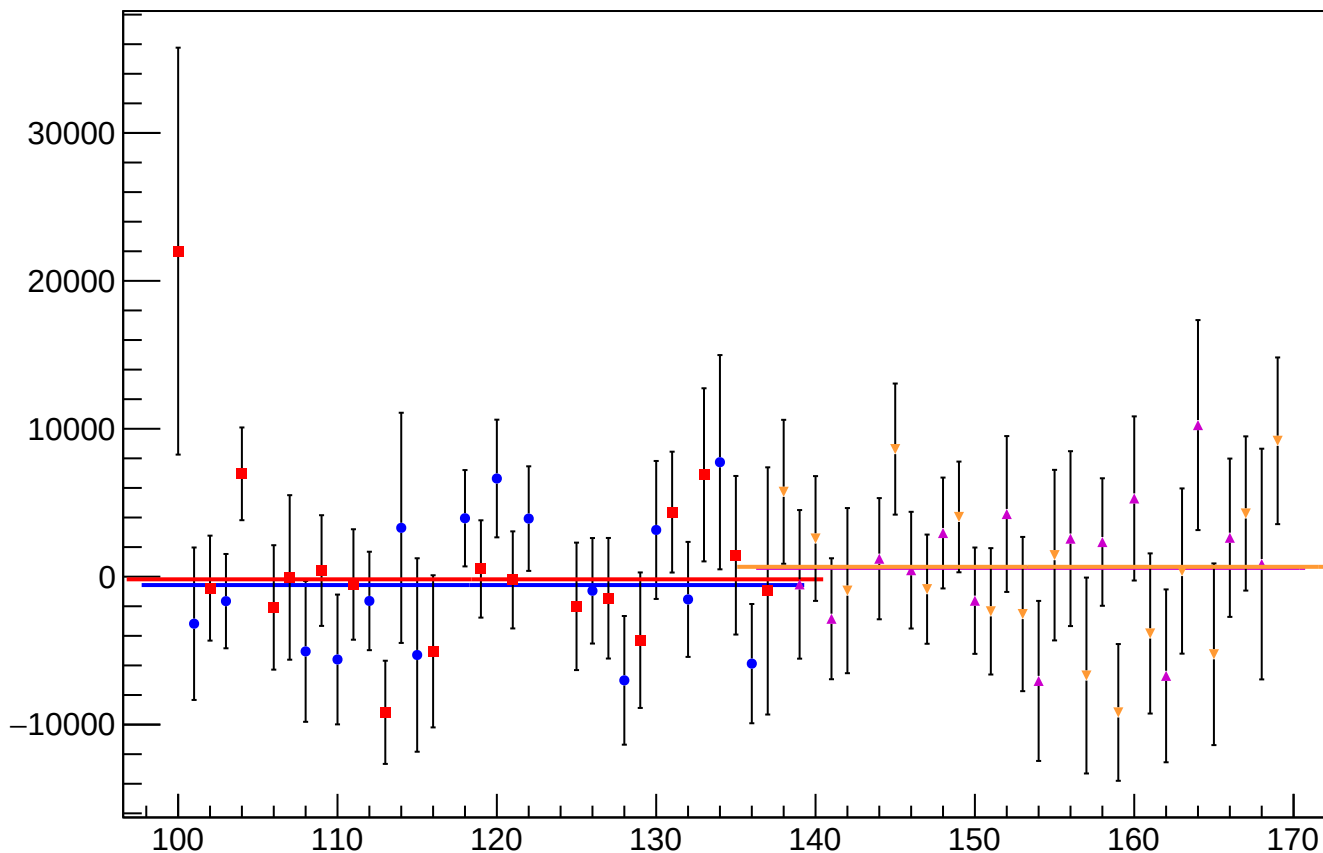
Right: 2463.075+/-0.468 χ^2/NDF : 1280607.2/33

In: 3243.989+/-0.548 χ^2/NDF : 3946539.4/30

Out: 3027.563+/-0.511 χ^2/NDF : 4437718.1/33

All: 3128.302+/-0.374 χ^2/NDF : 8467653.3/64

asym_usl_atl2_dd_mean vs Slug, Sign Corrected



Right In: -566.096+/-1040.314 χ^2/NDF : 16.2/15

Left Out: 666.670+/-1214.082 χ^2/NDF : 16.6/15

Right Out: -178.586+/-988.392 χ^2/NDF : 19.5/17

Left In: 594.749+/-1233.314 χ^2/NDF : 8.6/14

Left: 631.275+/-865.205 χ^2/NDF : 25.2/30

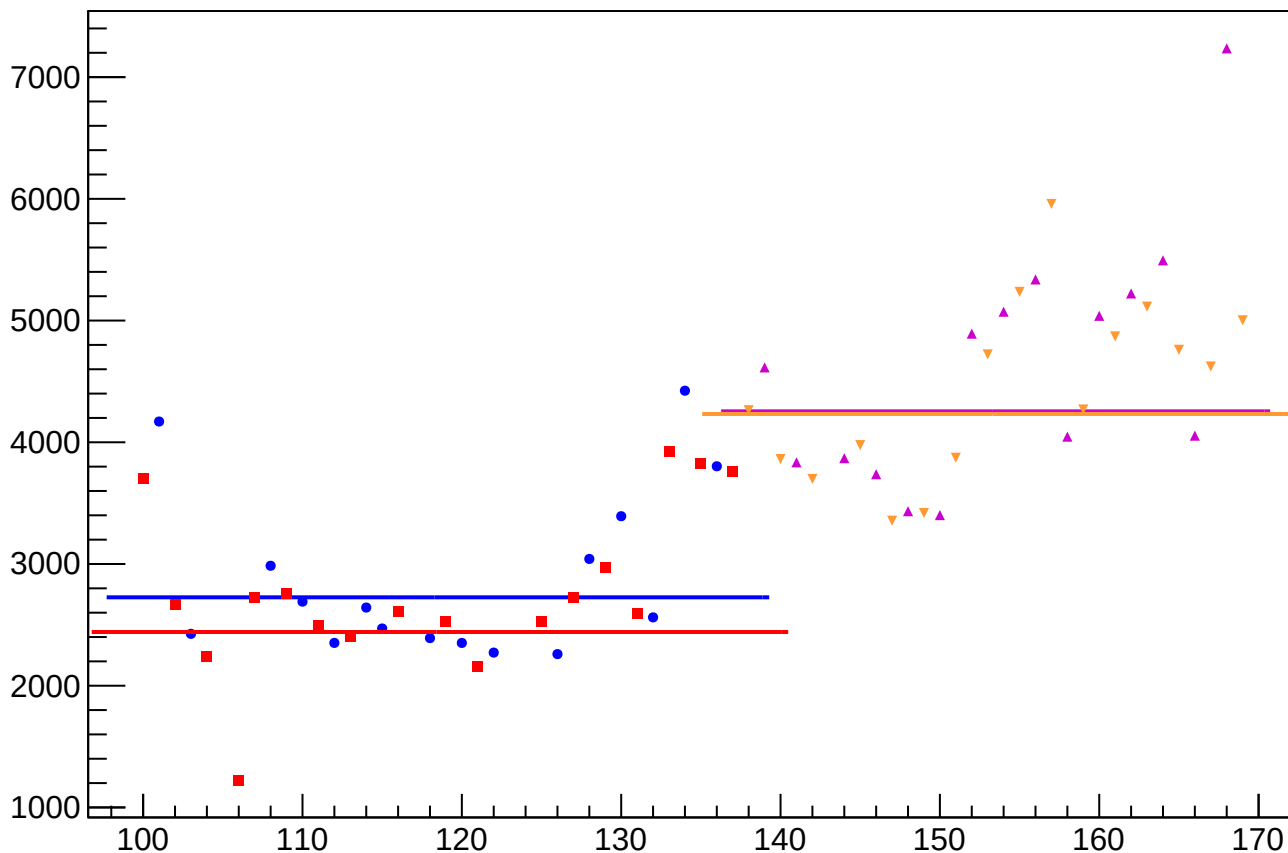
Right: -362.430+/-716.551 χ^2/NDF : 35.8/33

In: -83.509+/-795.197 χ^2/NDF : 25.3/30

Out: 158.328+/-766.502 χ^2/NDF : 36.4/33

All: 41.852+/-551.864 χ^2/NDF : 61.8/64

asym_usl_atl2_dd_rms vs Slug, Sign Corrected



Right In: 2726.231+/-0.736 χ^2/NDF : 623079.8/15

Left Out: 4232.593+/-0.858 χ^2/NDF : 616950.6/15

Right Out: 2441.363+/-0.667 χ^2/NDF : 891132.7/17

Left In: 4254.321+/-0.872 χ^2/NDF : 889817.6/14

Left: 4243.286+/-0.612 χ^2/NDF : 1507083.5/30

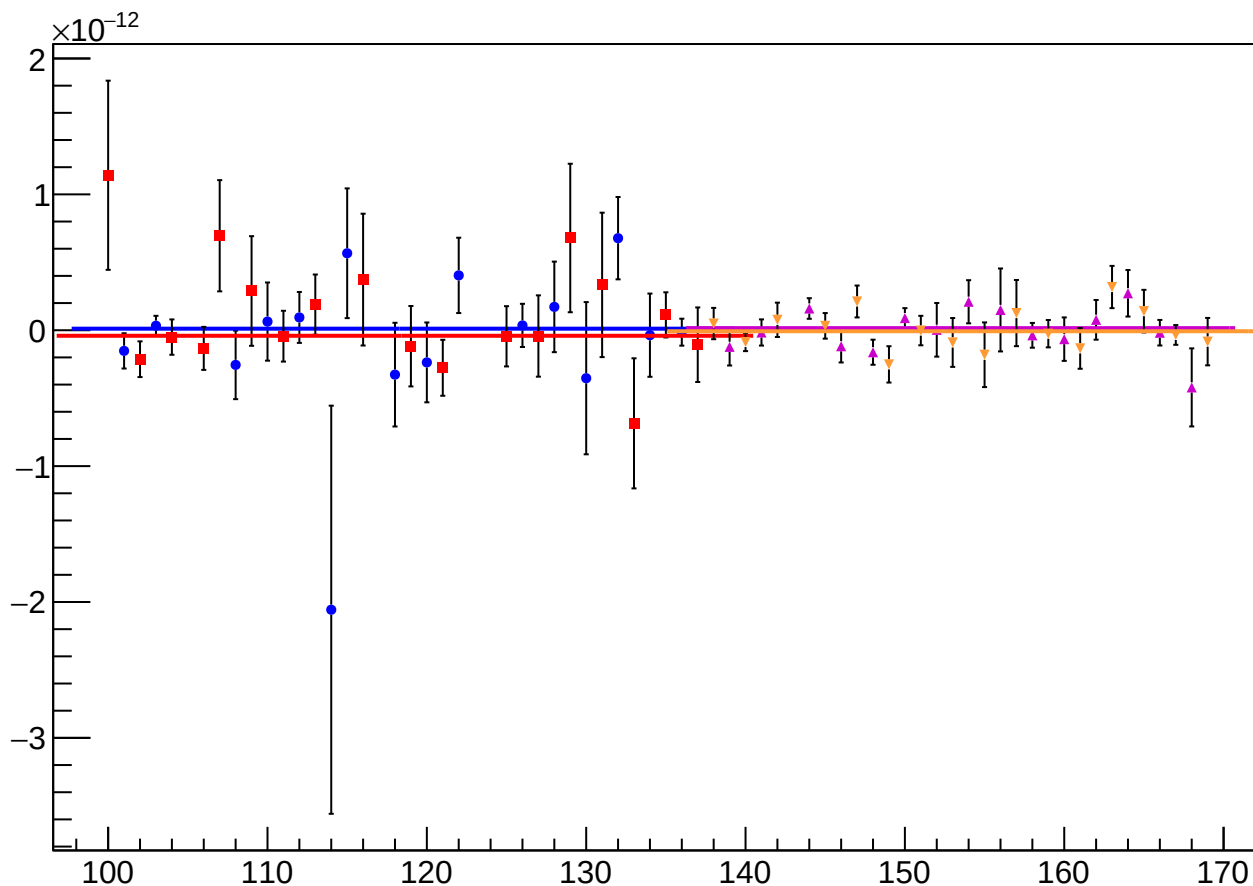
Right: 2569.883+/-0.494 χ^2/NDF : 1596520.0/33

In: 3361.489+/-0.562 χ^2/NDF : 3306809.4/30

Out: 3115.549+/-0.527 χ^2/NDF : 4222997.5/33

All: 3230.485+/-0.384 χ^2/NDF : 7631711.6/64

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15.4/15

Left Out: -0.000+/-0.000 χ^2/NDF :16.5/15

Right Out: -0.000+/-0.000 χ^2/NDF : 17.0/17

Left In: 0.000+/-0.000 χ^2/NDF :17.8/14

Left: 0.000+/-0.000 χ^2/NDF : 34.6/30

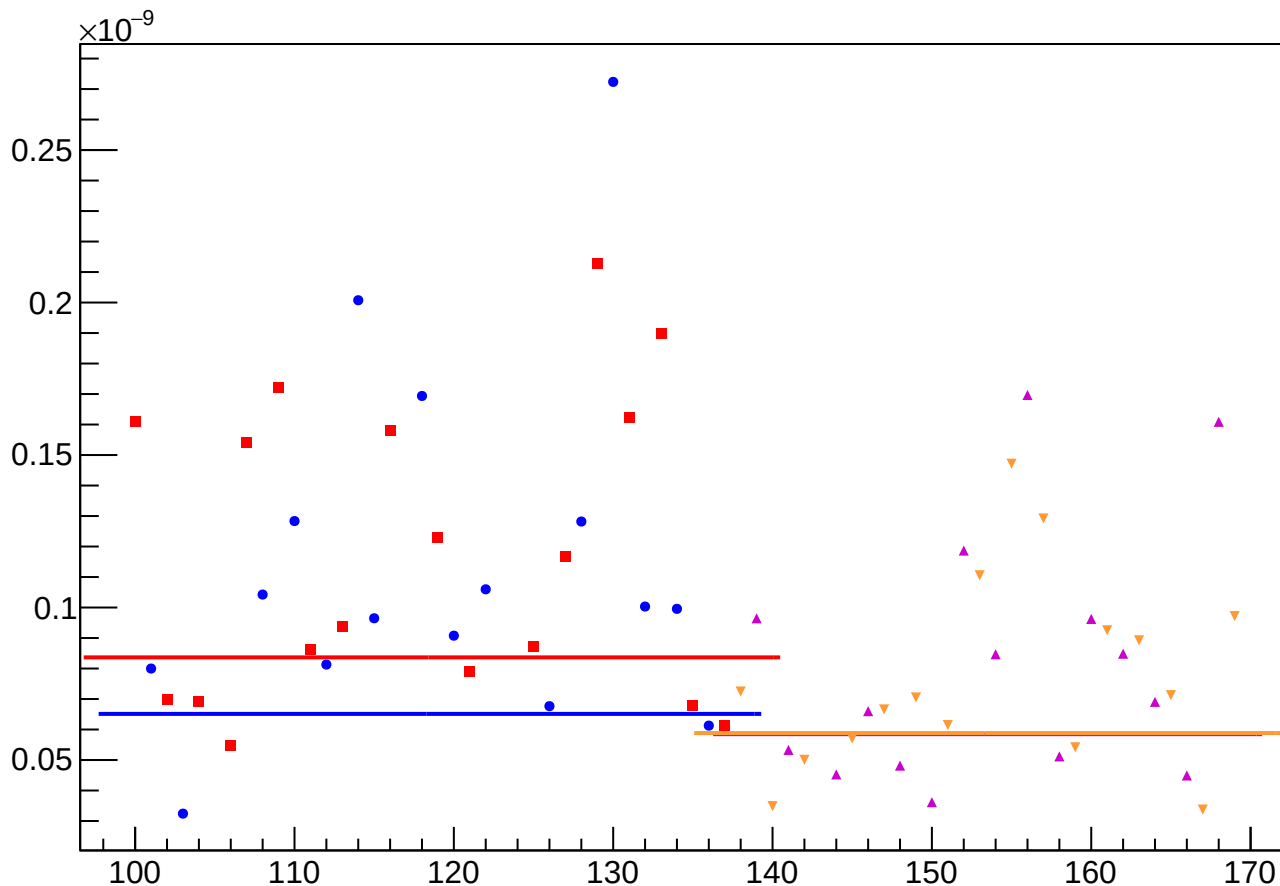
Right: -0.000+/-0.000 χ^2/NDF : 32.9/33

In: 0.000+/-0.000 χ^2/NDF :33.2/30

Out: -0.000+/-0.000 χ^2/NDF :33.8/33

All: 0.000+/-0.000 χ^2/NDF : 67.7/64

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1222613.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1457220.3/15

Right Out: 0.000+/-0.000 χ^2/NDF : 691494.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 1437299.5/14

Left: 0.000+/-0.000 χ^2/NDF : 2894683.0/30

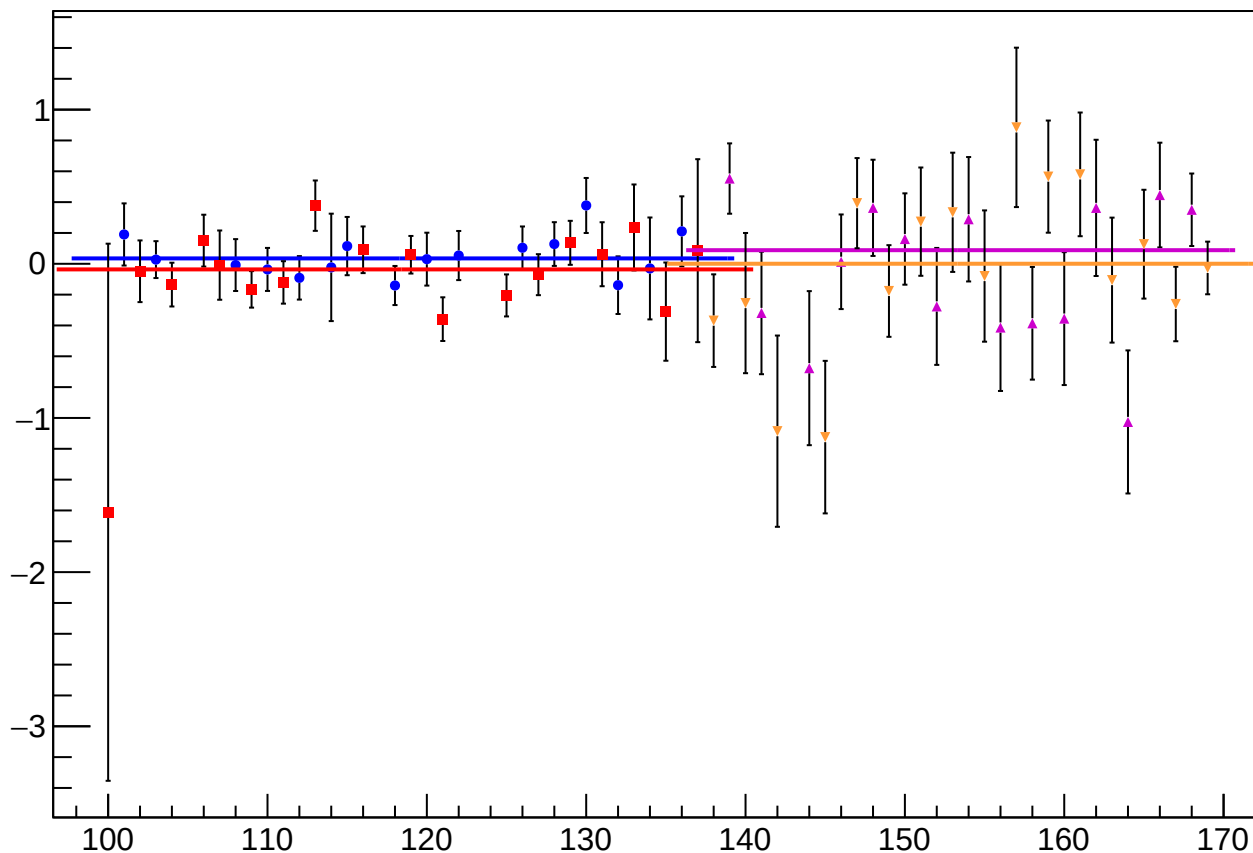
Right: 0.000+/-0.000 χ^2/NDF : 2057625.5/33

In: 0.000+/-0.000 χ^2/NDF : 2691412.9/30

Out: 0.000+/-0.000 χ^2/NDF : 2483553.9/33

All: 0.000+/-0.000 χ^2/NDF : 5199840.6/64

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.041 $\chi^2/\text{NDF}: 9.8/15$

Left Out: 0.000 ± 0.082 $\chi^2/\text{NDF}: 22.4/15$

Right Out: -0.036 ± 0.039 $\chi^2/\text{NDF}: 22.0/17$

Left In: 0.088 ± 0.088 $\chi^2/\text{NDF}: 22.3/14$

Left: 0.041 ± 0.060 $\chi^2/\text{NDF}: 45.3/30$

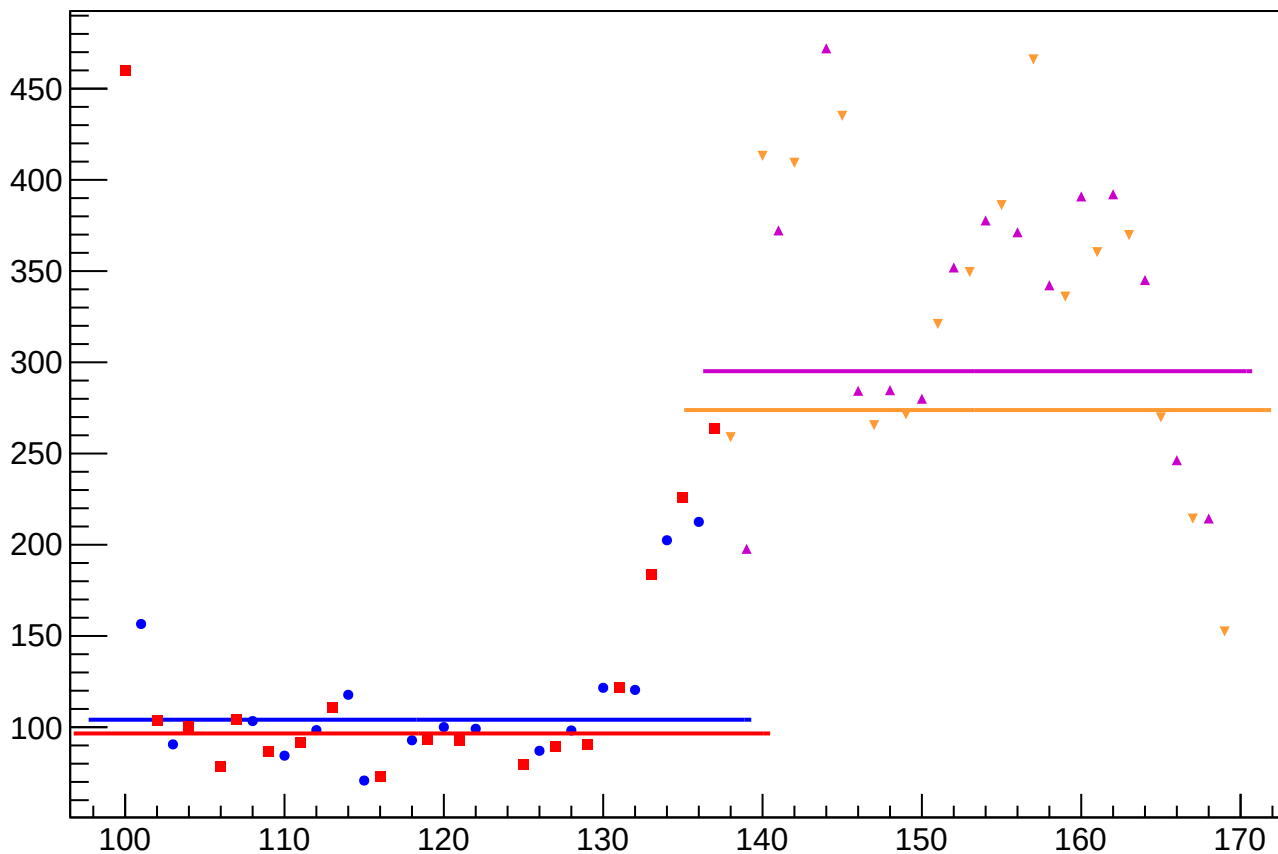
Right: -0.003 ± 0.028 $\chi^2/\text{NDF}: 33.4/33$

In: 0.045 ± 0.037 $\chi^2/\text{NDF}: 32.4/30$

Out: -0.030 ± 0.035 $\chi^2/\text{NDF}: 44.6/33$

All: 0.005 ± 0.026 $\chi^2/\text{NDF}: 79.1/64$

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 104.099+/-0.029 χ^2/NDF : 989856.1/15

Left Out: 273.831+/-0.058 χ^2/NDF : 2425826.0/15

Right Out: 96.569+/-0.028 χ^2/NDF : 955547.2/17

Left In: 295.141+/-0.062 χ^2/NDF : 1426435.0/14

Left: 283.771+/-0.042 χ^2/NDF : 3915371.3/30

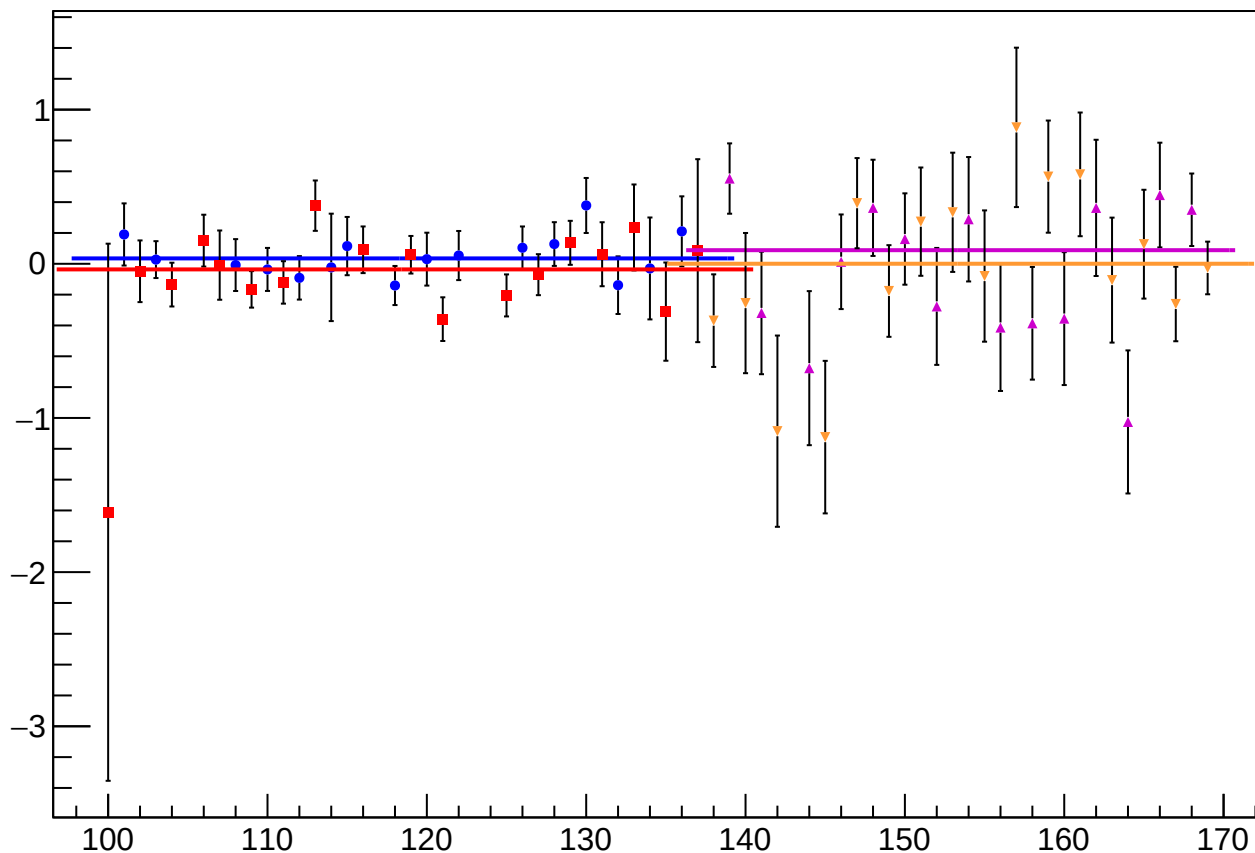
Right: 100.134+/-0.020 χ^2/NDF : 1980876.5/33

In: 138.453+/-0.026 χ^2/NDF : 10213000.8/30

Out: 129.177+/-0.025 χ^2/NDF : 11021006.4/33

All: 133.556+/-0.018 χ^2/NDF : 21299797.0/64

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 $\pm$ 0.041 χ^2 /NDF: 9.8/15

Left Out: 0.000 $\pm$ 0.082 χ^2 /NDF:22.4/15

Right Out: -0.036 $\pm$ 0.039 χ^2 /NDF: 22.0/17

Left In: 0.088 $\pm$ 0.088 χ^2 /NDF:22.3/14

Left: 0.041 $\pm$ 0.060 χ^2 /NDF: 45.3/30

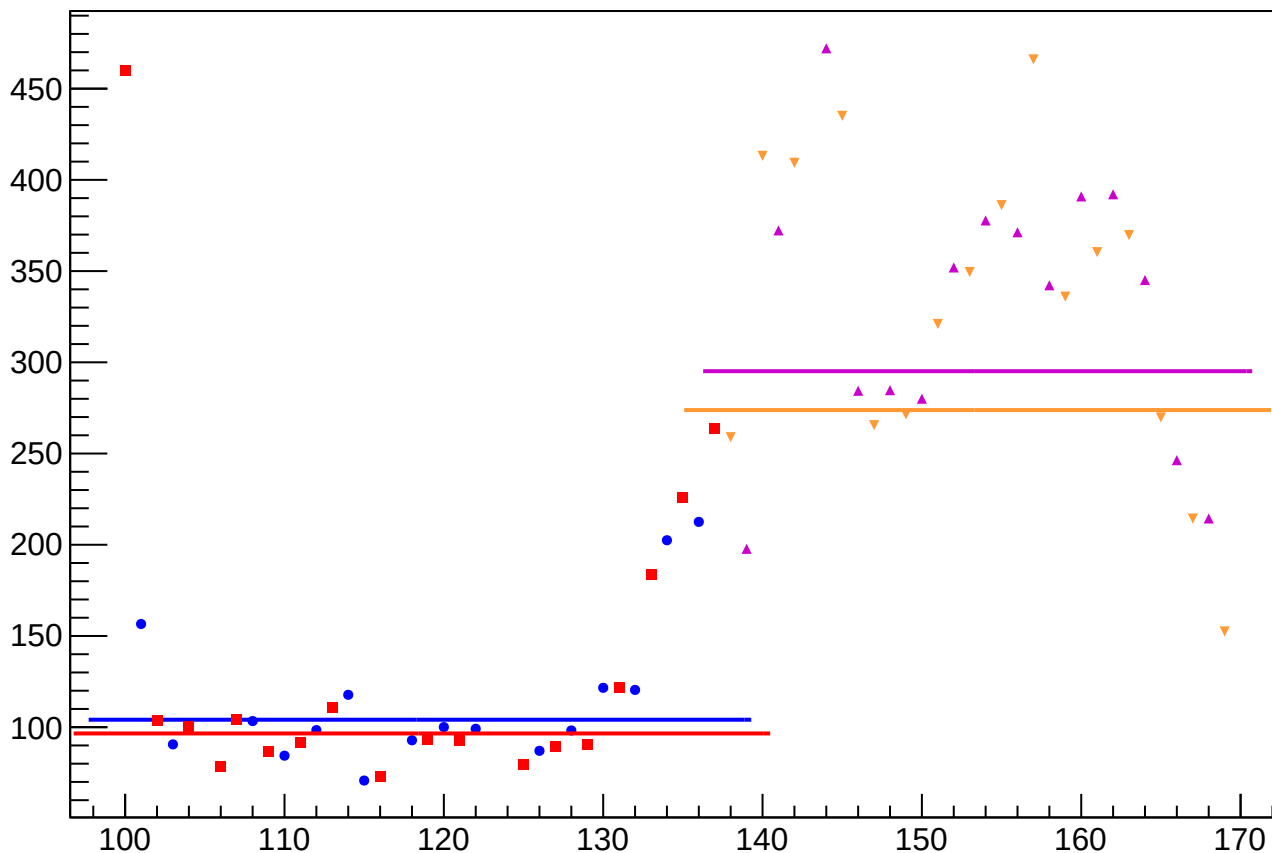
Right: -0.003 $\pm$ 0.028 χ^2 /NDF: 33.4/33

In: 0.045 $\pm$ 0.037 χ^2 /NDF:32.4/30

Out: -0.030 $\pm$ 0.035 χ^2 /NDF:44.6/33

All: 0.005 $\pm$ 0.026 χ^2 /NDF: 79.1/64

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 104.099 $\pm$ 0.029 χ^2 /NDF: 989856.1/15

Left Out: 273.831 $\pm$ 0.058 χ^2 /NDF: 2425826.0/15

Right Out: 96.569 $\pm$ 0.028 χ^2 /NDF: 955547.2/17

Left In: 295.141 $\pm$ 0.062 χ^2 /NDF: 1426435.0/14

Left: 283.771 $\pm$ 0.042 χ^2 /NDF: 3915371.3/30

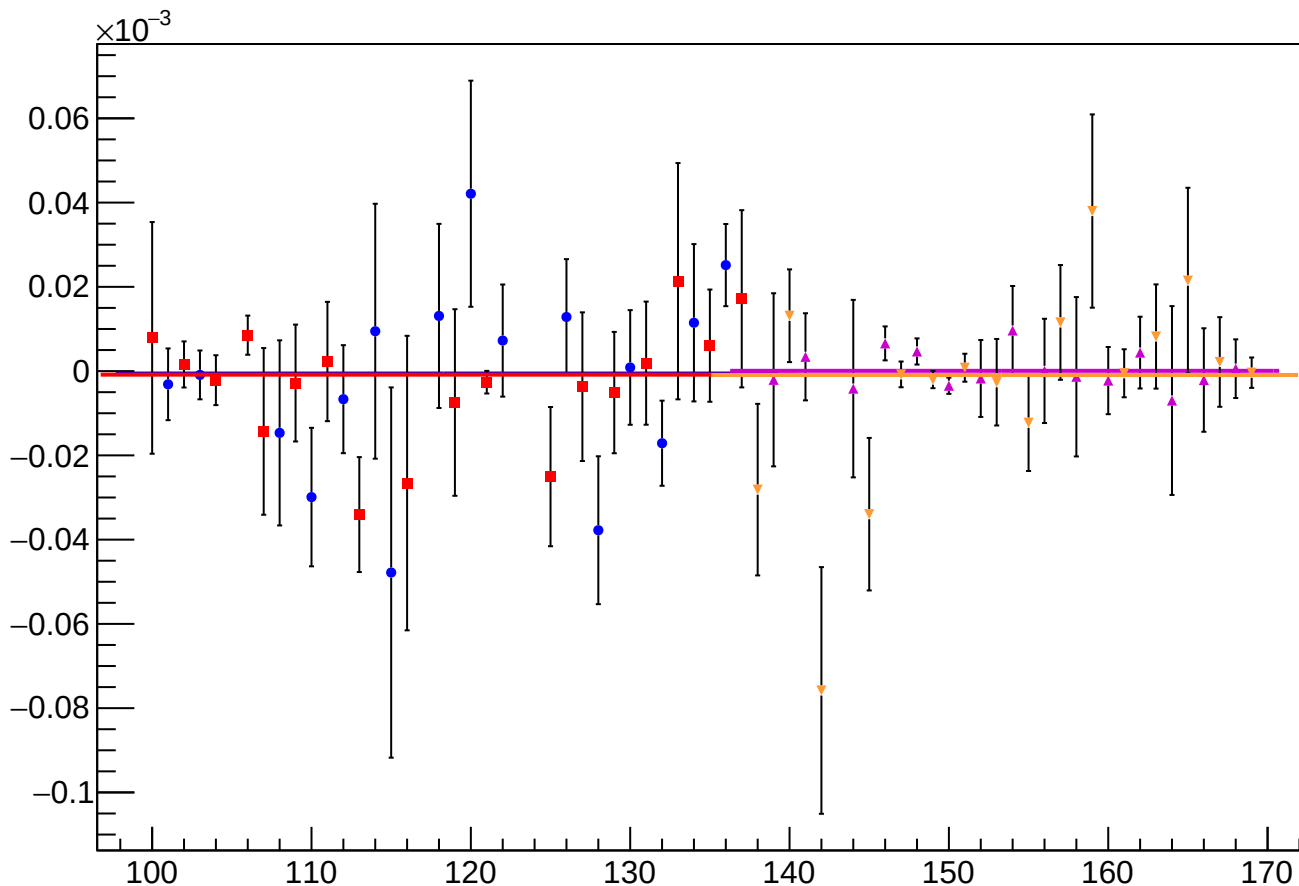
Right: 100.134 $\pm$ 0.020 χ^2 /NDF: 1980876.5/33

In: 138.453 $\pm$ 0.026 χ^2 /NDF: 10213000.8/30

Out: 129.177 $\pm$ 0.025 χ^2 /NDF: 11021006.4/33

All: 133.556 $\pm$ 0.018 χ^2 /NDF: 21299797.0/64

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 24.0/15

Left Out: -0.000+/-0.000 χ^2/NDF : 20.3/15

Right Out: -0.000+/-0.000 χ^2/NDF : 15.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 9.7/14

Left: -0.000+/-0.000 χ^2/NDF : 30.2/30

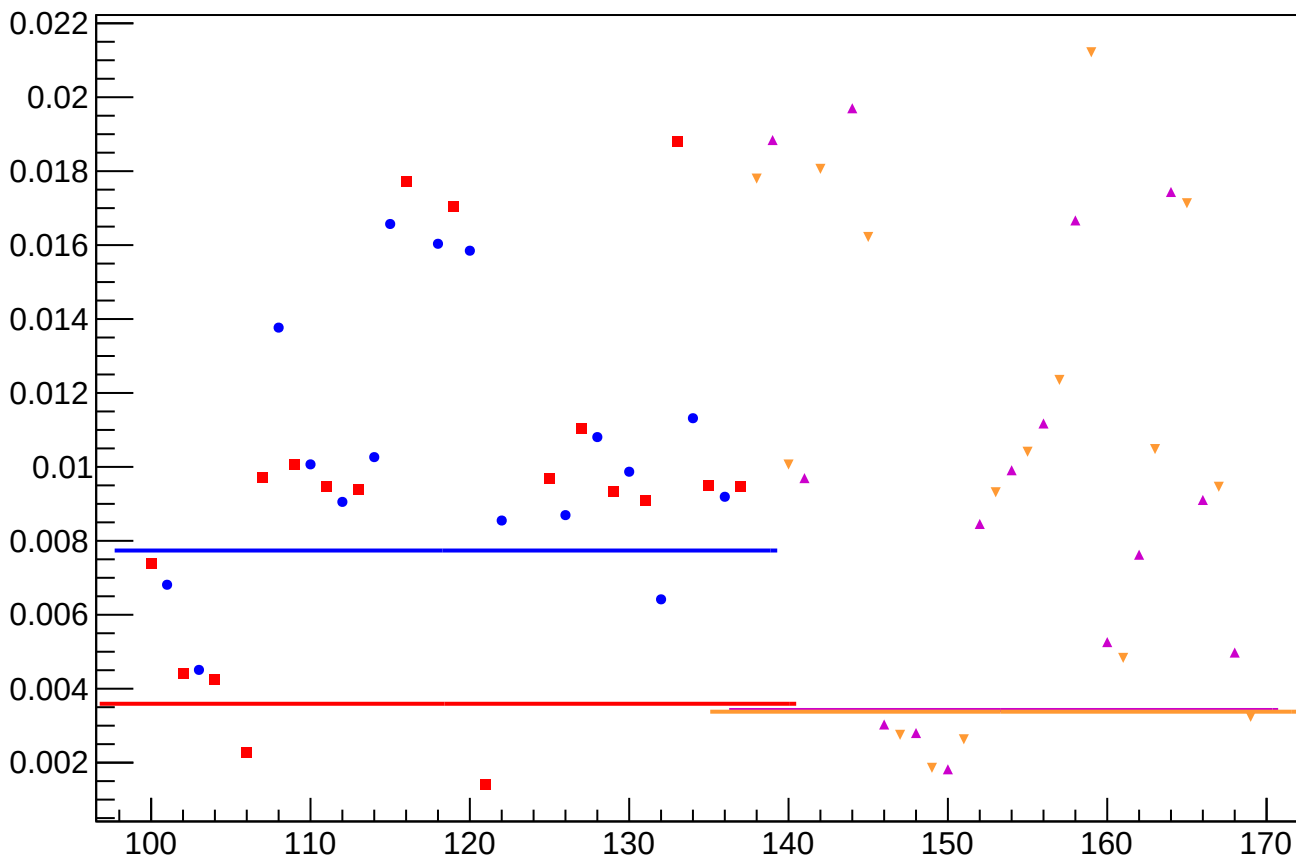
Right: -0.000+/-0.000 χ^2/NDF : 39.8/33

In: -0.000+/-0.000 χ^2/NDF : 33.7/30

Out: -0.000+/-0.000 χ^2/NDF : 36.1/33

All: -0.000+/-0.000 χ^2/NDF : 70.1/64

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1701473.5/15

Left Out: 0.003+/-0.000 χ^2/NDF :10273487.0/15

Right Out: 0.004+/-0.000 χ^2/NDF : 6364883.4/17

Left In: 0.003+/-0.000 χ^2/NDF :9575155.5/14

Left: 0.003+/-0.000 χ^2/NDF : 19849850.2/30

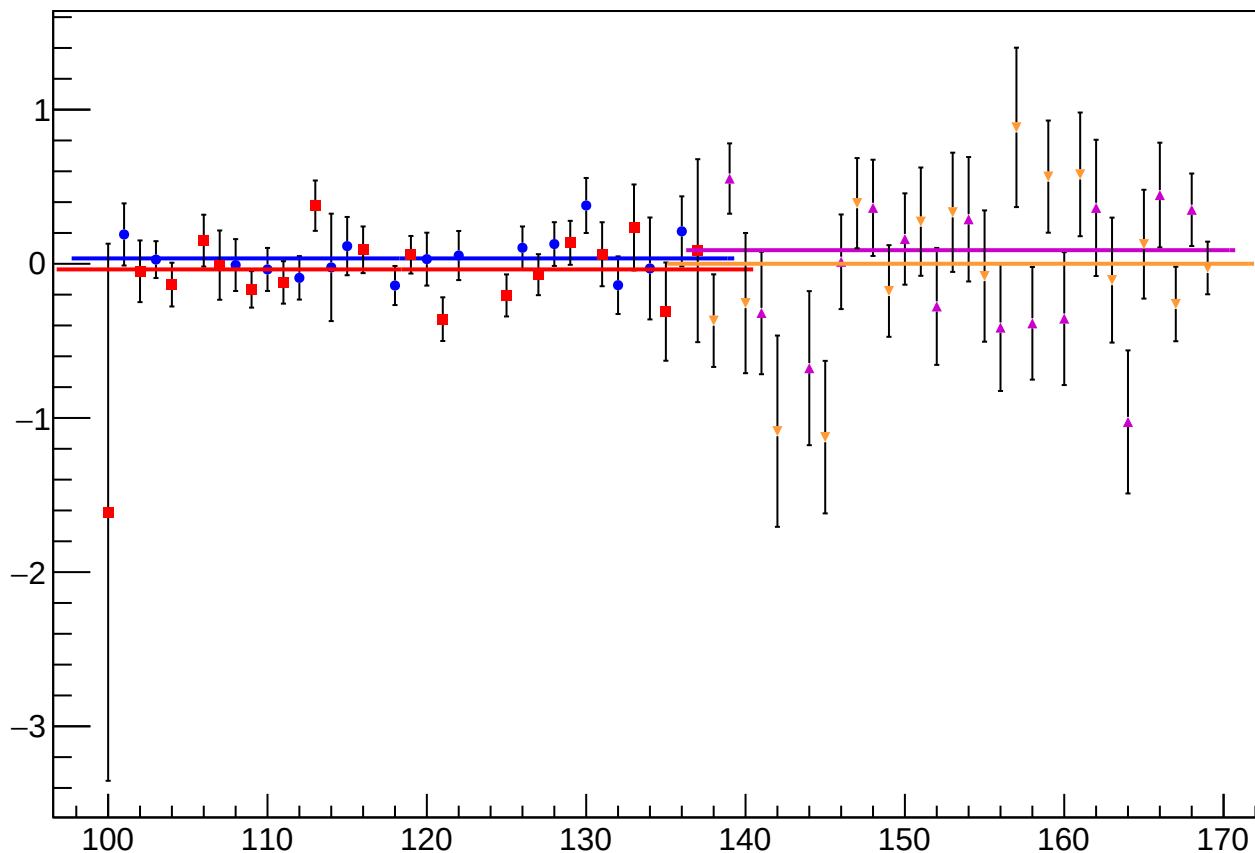
Right: 0.005+/-0.000 χ^2/NDF : 10695382.9/33

In: 0.004+/-0.000 χ^2/NDF :14502030.8/30

Out: 0.003+/-0.000 χ^2/NDF :16656553.6/33

All: 0.004+/-0.000 χ^2/NDF : 31494611.4/64

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 $\pm$ 0.041 χ^2 /NDF: 9.8/15

Left Out: 0.000 $\pm$ 0.082 χ^2 /NDF:22.4/15

Right Out: -0.036 $\pm$ 0.039 χ^2 /NDF: 22.0/17

Left In: 0.088 $\pm$ 0.088 χ^2 /NDF:22.3/14

Left: 0.041 $\pm$ 0.060 χ^2 /NDF: 45.3/30

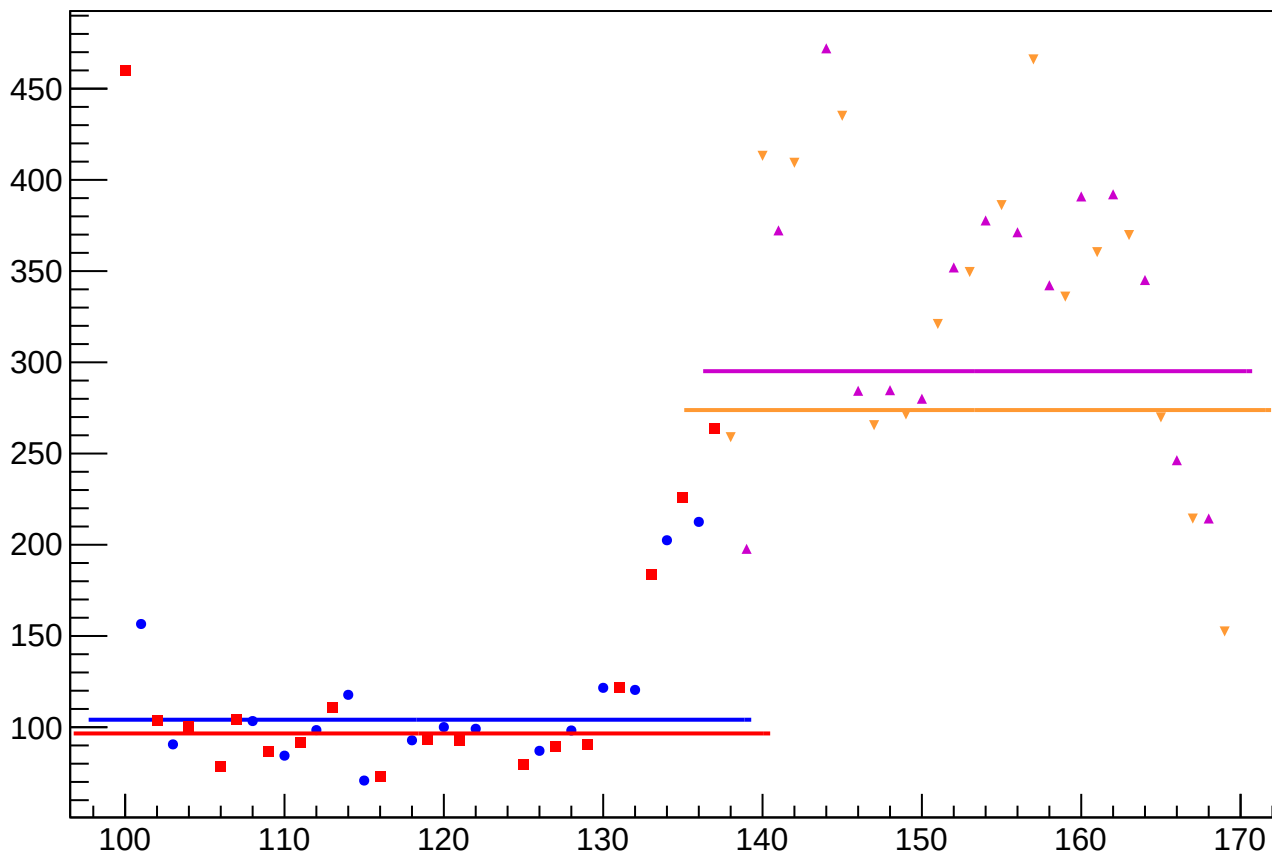
Right: -0.003 $\pm$ 0.028 χ^2 /NDF: 33.4/33

In: 0.045 $\pm$ 0.037 χ^2 /NDF:32.4/30

Out: -0.030 $\pm$ 0.035 χ^2 /NDF:44.6/33

All: 0.005 $\pm$ 0.026 χ^2 /NDF: 79.1/64

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 104.100 $\pm$ 0.029 χ^2 /NDF: 989809.0/15

Left Out: 273.833 $\pm$ 0.058 χ^2 /NDF: 2425913.7/15

Right Out: 96.570 $\pm$ 0.028 χ^2 /NDF: 955477.2/17

Left In: 295.146 $\pm$ 0.062 χ^2 /NDF: 1426418.4/14

Left: 283.774 $\pm$ 0.042 χ^2 /NDF: 3915455.1/30

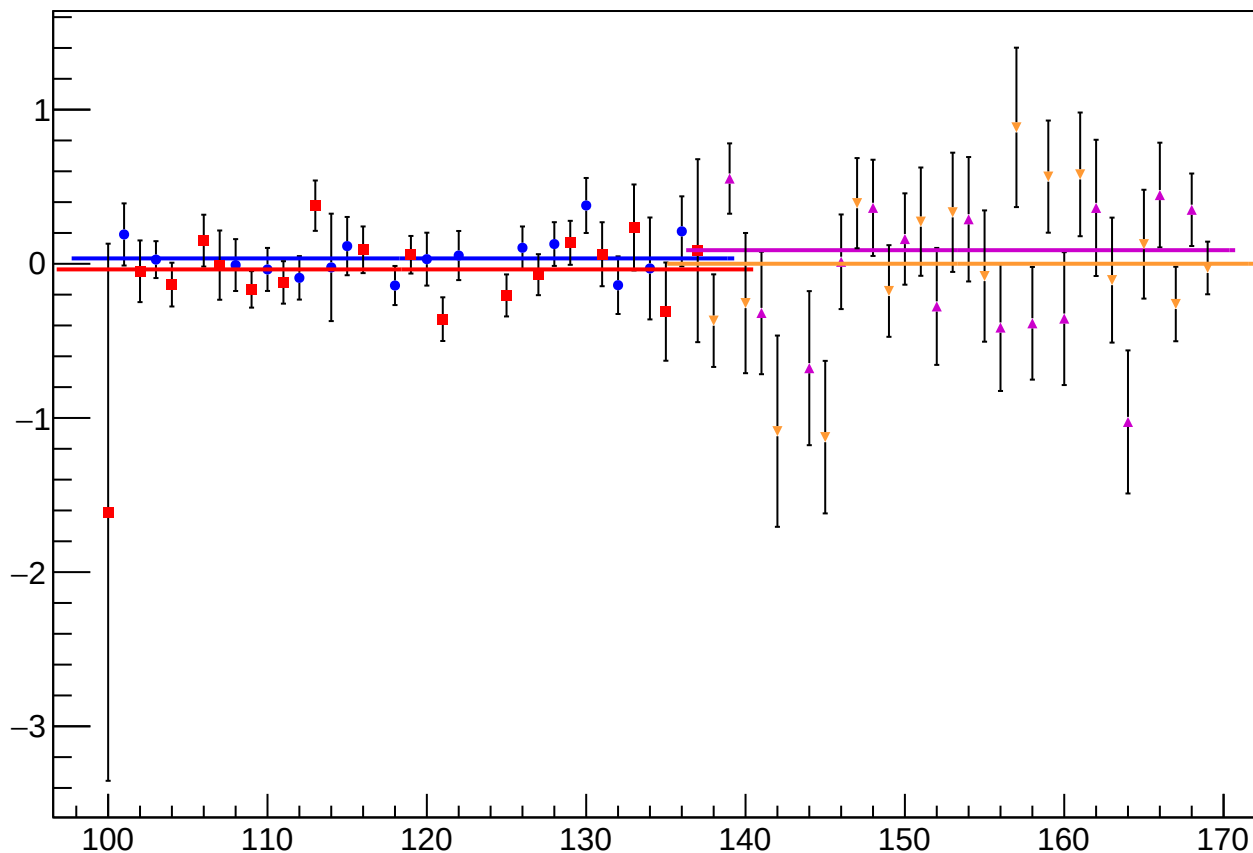
Right: 100.135 $\pm$ 0.020 χ^2 /NDF: 1980754.7/33

In: 138.454 $\pm$ 0.026 χ^2 /NDF: 10213031.3/30

Out: 129.178 $\pm$ 0.025 χ^2 /NDF: 11020955.1/33

All: 133.557 $\pm$ 0.018 χ^2 /NDF: 21299769.2/64

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 $\pm$ 0.041 χ^2 /NDF: 9.8/15

Left Out: 0.000 $\pm$ 0.082 χ^2 /NDF:22.4/15

Right Out: -0.036 $\pm$ 0.039 χ^2 /NDF: 22.0/17

Left In: 0.088 $\pm$ 0.088 χ^2 /NDF:22.3/14

Left: 0.041 $\pm$ 0.060 χ^2 /NDF: 45.3/30

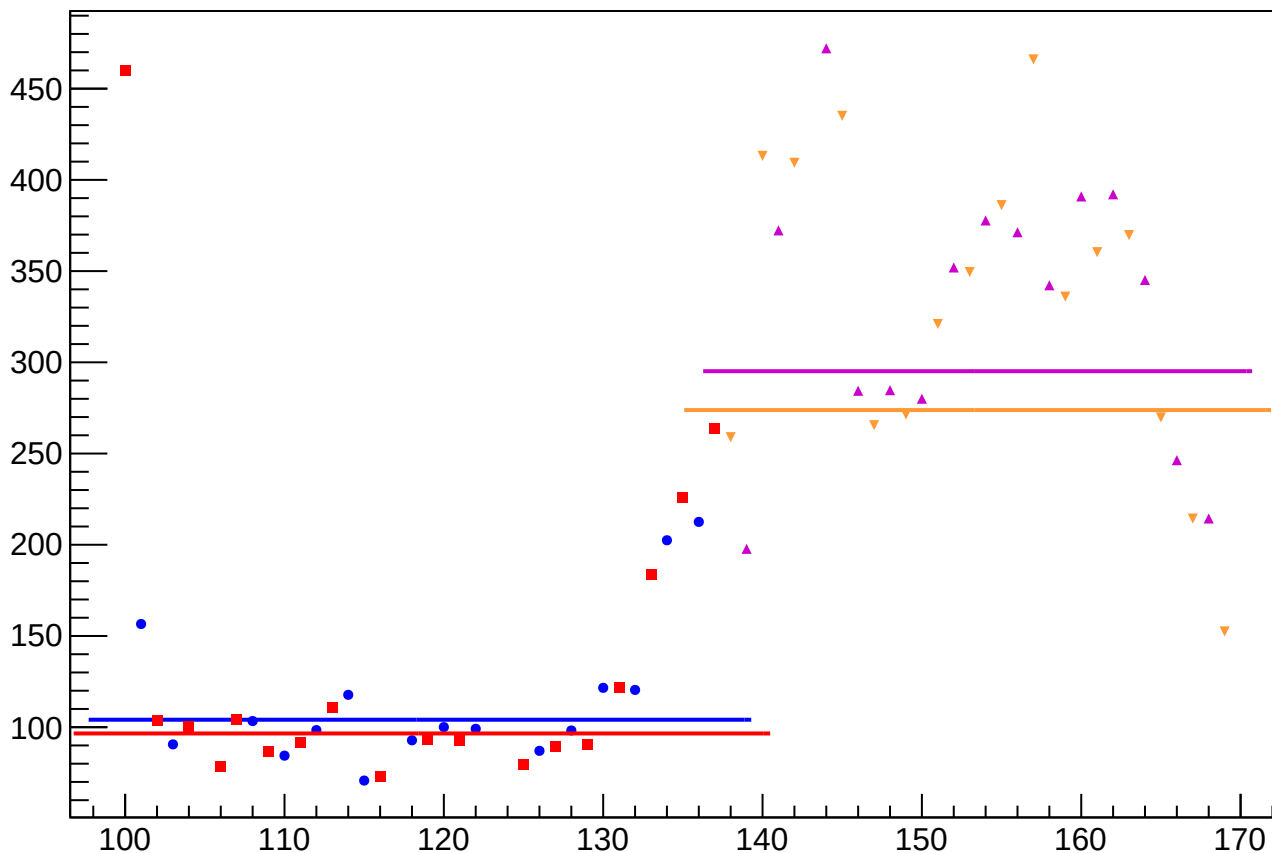
Right: -0.003 $\pm$ 0.028 χ^2 /NDF: 33.4/33

In: 0.045 $\pm$ 0.037 χ^2 /NDF:32.4/30

Out: -0.030 $\pm$ 0.035 χ^2 /NDF:44.6/33

All: 0.005 $\pm$ 0.026 χ^2 /NDF: 79.1/64

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 104.100 $\pm$ 0.029 χ^2 /NDF: 989809.0/15

Left Out: 273.833 $\pm$ 0.058 χ^2 /NDF: 2425913.7/15

Right Out: 96.570 $\pm$ 0.028 χ^2 /NDF: 955477.2/17

Left In: 295.146 $\pm$ 0.062 χ^2 /NDF: 1426418.4/14

Left: 283.774 $\pm$ 0.042 χ^2 /NDF: 3915455.1/30

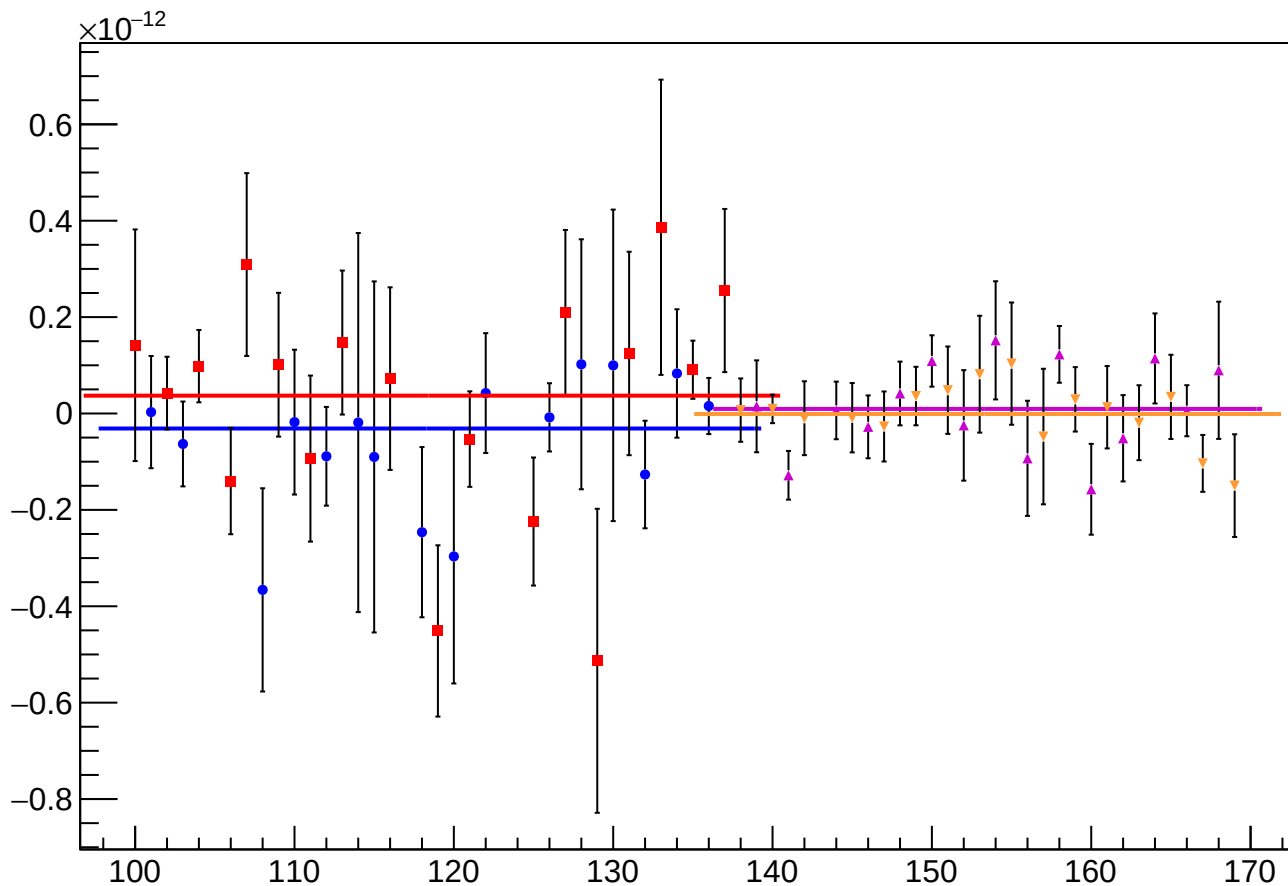
Right: 100.135 $\pm$ 0.020 χ^2 /NDF: 1980754.7/33

In: 138.454 $\pm$ 0.026 χ^2 /NDF: 10213031.3/30

Out: 129.178 $\pm$ 0.025 χ^2 /NDF: 11020955.1/33

All: 133.557 $\pm$ 0.018 χ^2 /NDF: 21299769.2/64

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 8.6/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 7.6/15

Right Out: 0.000 ± 0.000 χ^2/NDF : 27.0/17

Left In: 0.000 ± 0.000 χ^2/NDF : 22.5/14

Left: 0.000 ± 0.000 χ^2/NDF : 30.3/30

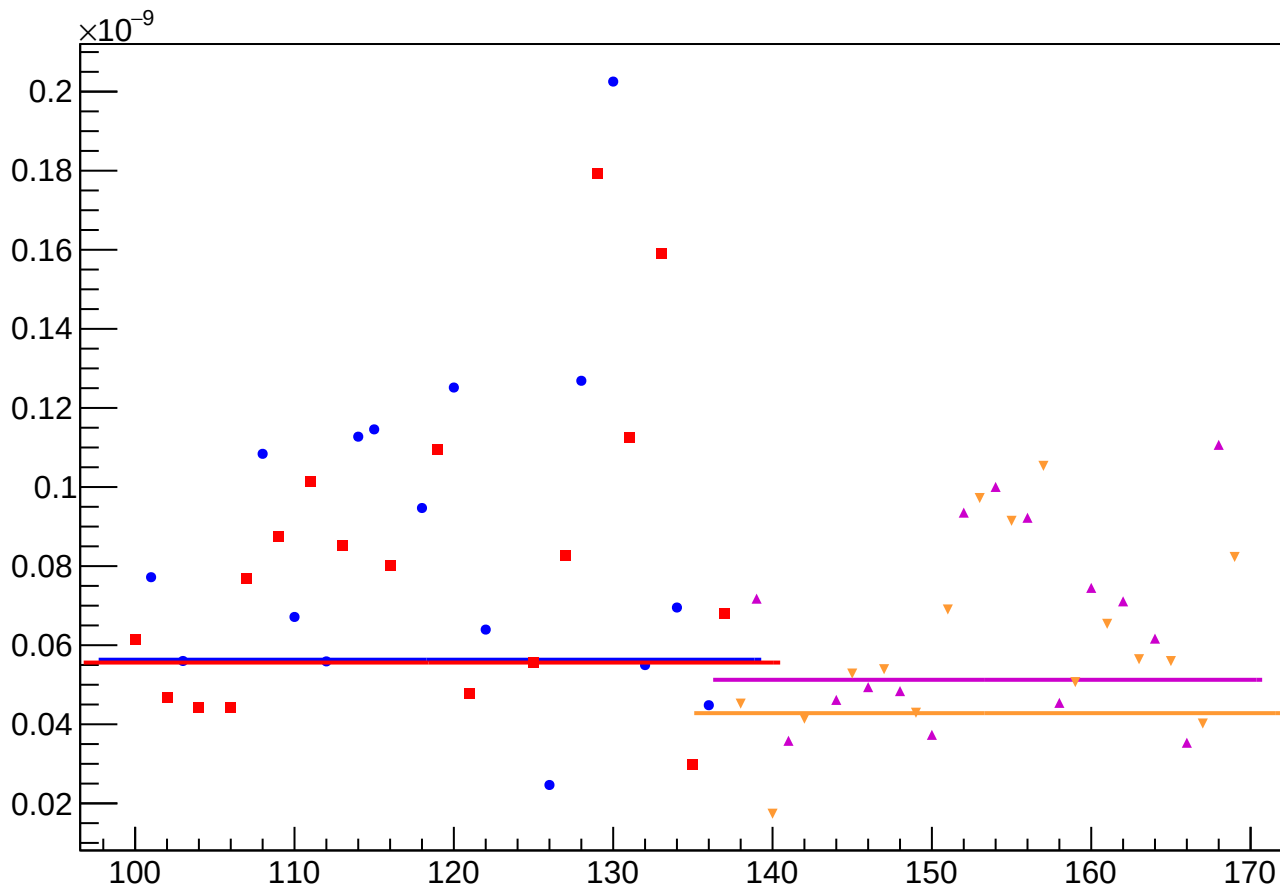
Right: 0.000 ± 0.000 χ^2/NDF : 38.4/33

In: -0.000 ± 0.000 χ^2/NDF : 32.5/30

Out: 0.000 ± 0.000 χ^2/NDF : 36.0/33

All: 0.000 ± 0.000 χ^2/NDF : 68.7/64

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1582688.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3377554.3/15

Right Out: 0.000+/-0.000 χ^2/NDF : 1767462.9/17

Left In: 0.000+/-0.000 χ^2/NDF : 2052587.8/14

Left: 0.000+/-0.000 χ^2/NDF : 5654876.7/30

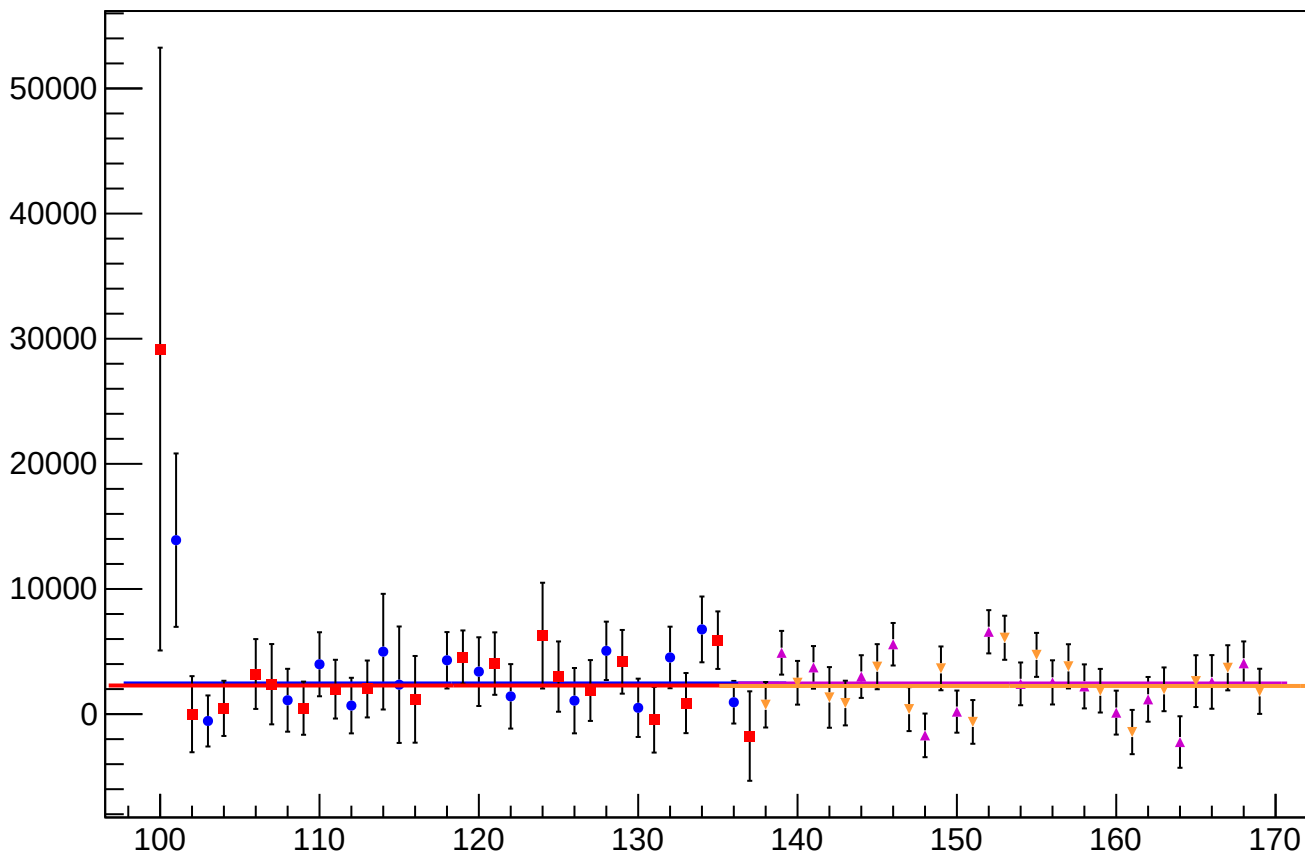
Right: 0.000+/-0.000 χ^2/NDF : 3350763.8/33

In: 0.000+/-0.000 χ^2/NDF : 3677471.0/30

Out: 0.000+/-0.000 χ^2/NDF : 5439932.2/33

All: 0.000+/-0.000 χ^2/NDF : 9307945.4/64

reg_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2449.957 $\pm$ 630.235 χ^2 /NDF: 13.8/15

Left Out: 2249.985 $\pm$ 438.911 χ^2 /NDF:19.3/16

Right Out: 2286.573 $\pm$ 609.157 χ^2 /NDF: 11.8/18

Left In: 2446.529 $\pm$ 457.187 χ^2 /NDF:27.5/14

Left: 2344.250 $\pm$ 316.621 χ^2 /NDF: 47.0/31

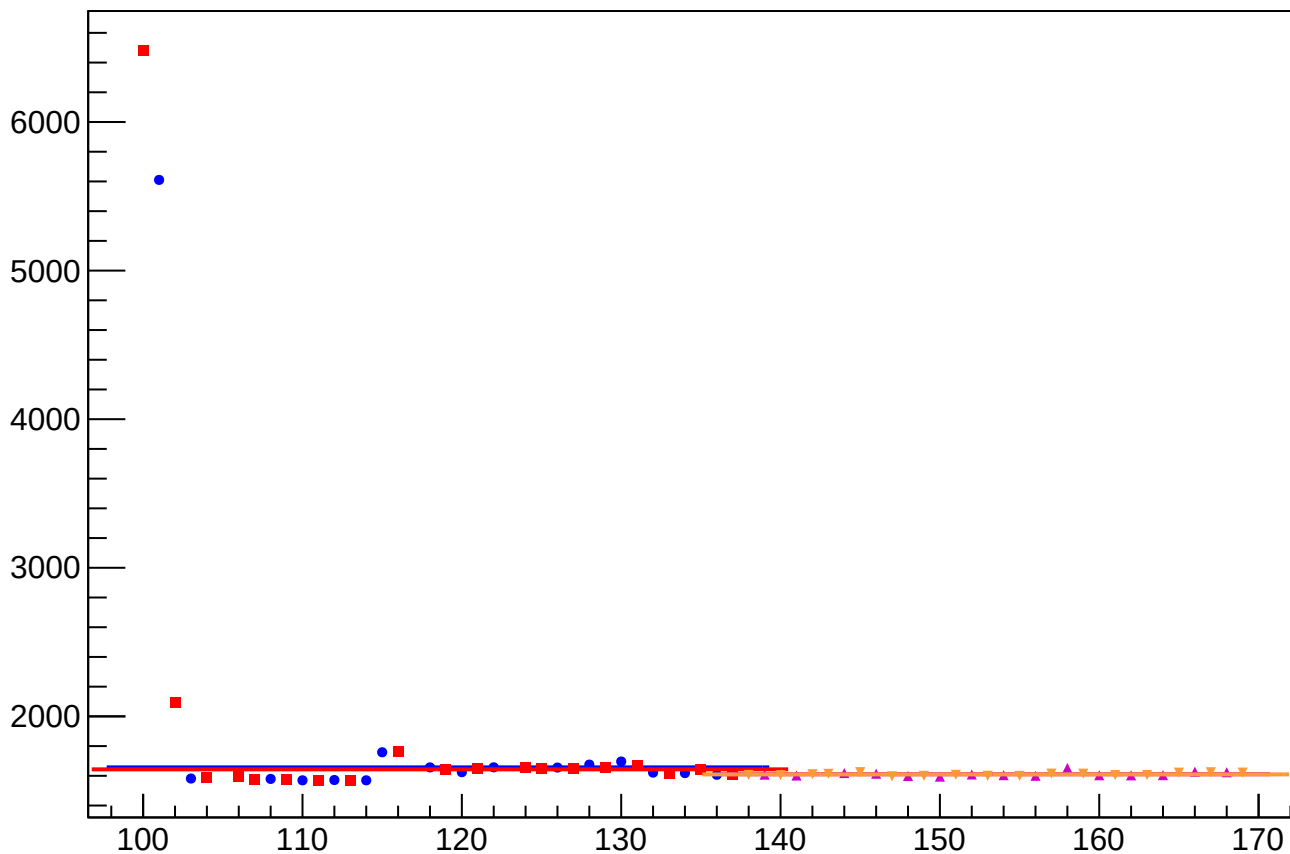
Right: 2365.487 $\pm$ 438.001 χ^2 /NDF: 25.7/34

In: 2447.711 $\pm$ 370.069 χ^2 /NDF:41.4/30

Out: 2262.489 $\pm$ 356.103 χ^2 /NDF:31.2/35

All: 2351.539 $\pm$ 256.598 χ^2 /NDF: 72.7/66

reg_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1656.683 $\pm$ 0.446 χ^2 /NDF: 666226.2/15

Left Out: 1609.523 $\pm$ 0.310 χ^2 /NDF: 797.8/16

Right Out: 1643.430 $\pm$ 0.431 χ^2 /NDF: 136997.9/18

Left In: 1610.711 $\pm$ 0.323 χ^2 /NDF: 1955.4/14

Left: 1610.092 $\pm$ 0.224 χ^2 /NDF: 2760.3/31

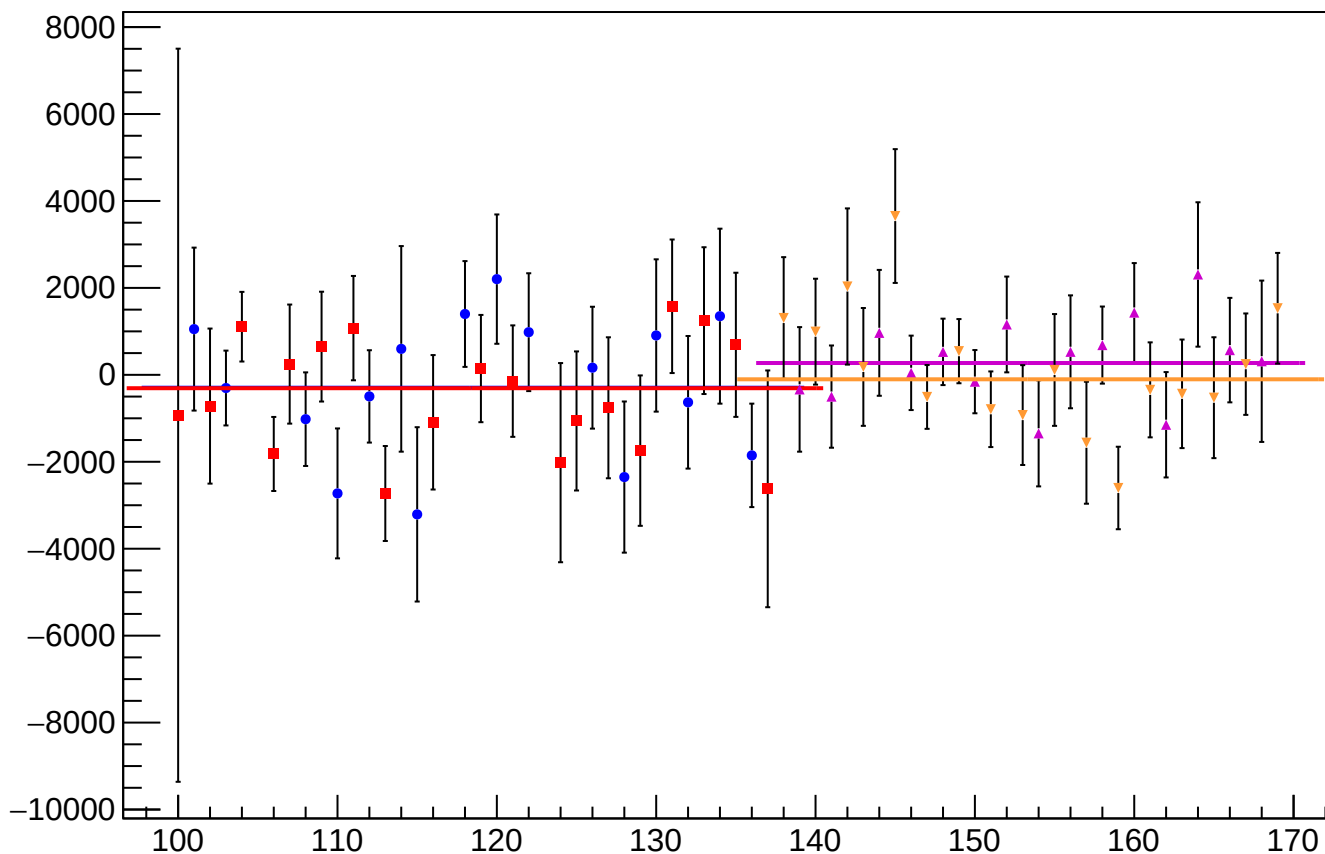
Right: 1649.831 $\pm$ 0.310 χ^2 /NDF: 803681.3/34

In: 1626.562 $\pm$ 0.262 χ^2 /NDF: 675154.2/30

Out: 1621.110 $\pm$ 0.252 χ^2 /NDF: 141874.8/35

All: 1623.731 $\pm$ 0.181 χ^2 /NDF: 817254.4/66

asym_usr_atr1_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -296.450+/-343.436 χ^2/NDF : 16.0/15

Left Out: -102.610+/-269.175 χ^2/NDF :21.5/16

Right Out: -307.671+/-312.976 χ^2/NDF : 18.7/18

Left In: 272.154+/-279.368 χ^2/NDF :8.0/14

Left: 77.810+/-193.839 χ^2/NDF : 30.4/31

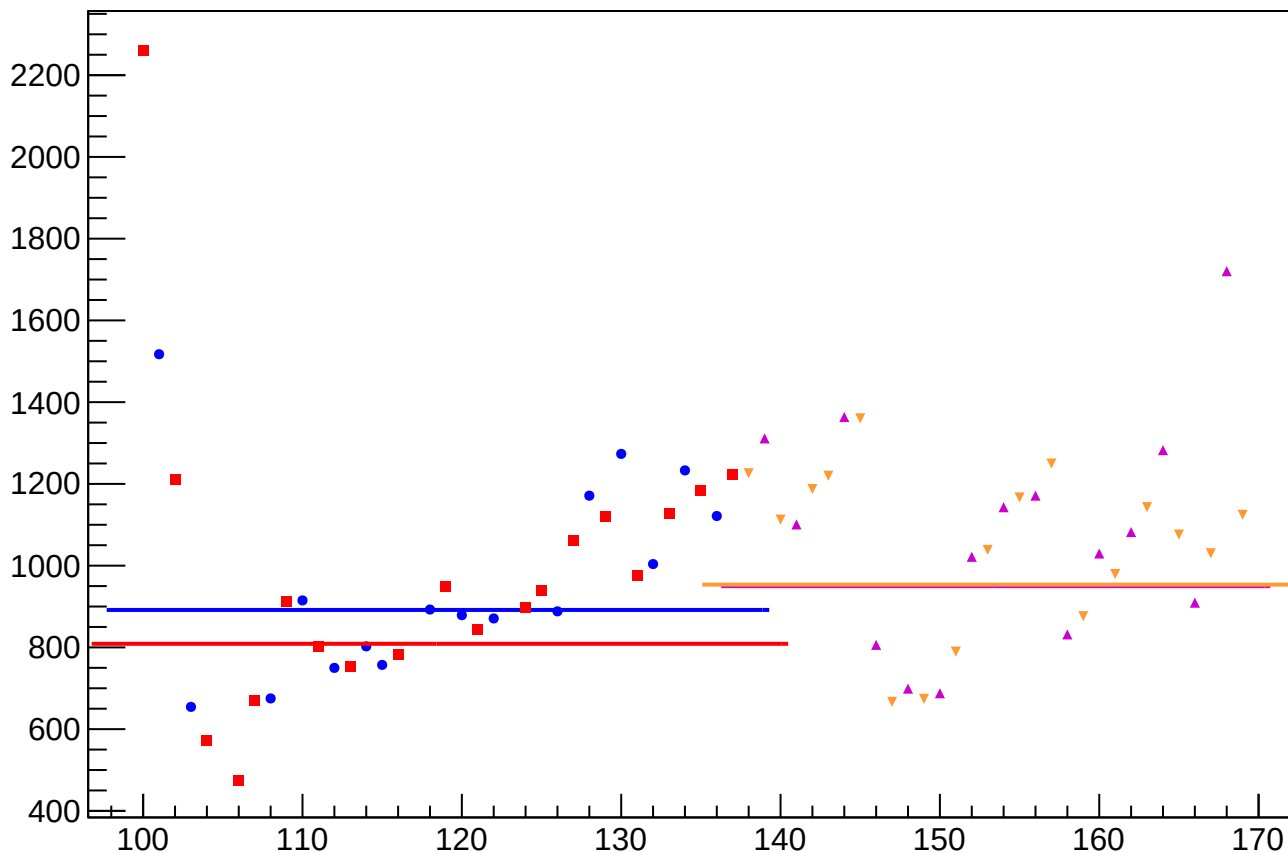
Right: -302.580+/-231.328 χ^2/NDF : 34.7/34

In: 45.732+/-216.721 χ^2/NDF :25.6/30

Out: -189.798+/-204.079 χ^2/NDF :40.4/35

All: -79.103+/-148.574 χ^2/NDF : 66.7/66

asym_usr_atr1_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 891.633+/-0.243 χ^2/NDF : 793897.2/15

Left Out: 953.598+/-0.190 χ^2/NDF : 1299576.6/16

Right Out: 808.809+/-0.221 χ^2/NDF : 1083841.8/18

Left In: 949.884+/-0.198 χ^2/NDF : 1468040.0/14

Left: 951.810+/-0.137 χ^2/NDF : 2767799.8/31

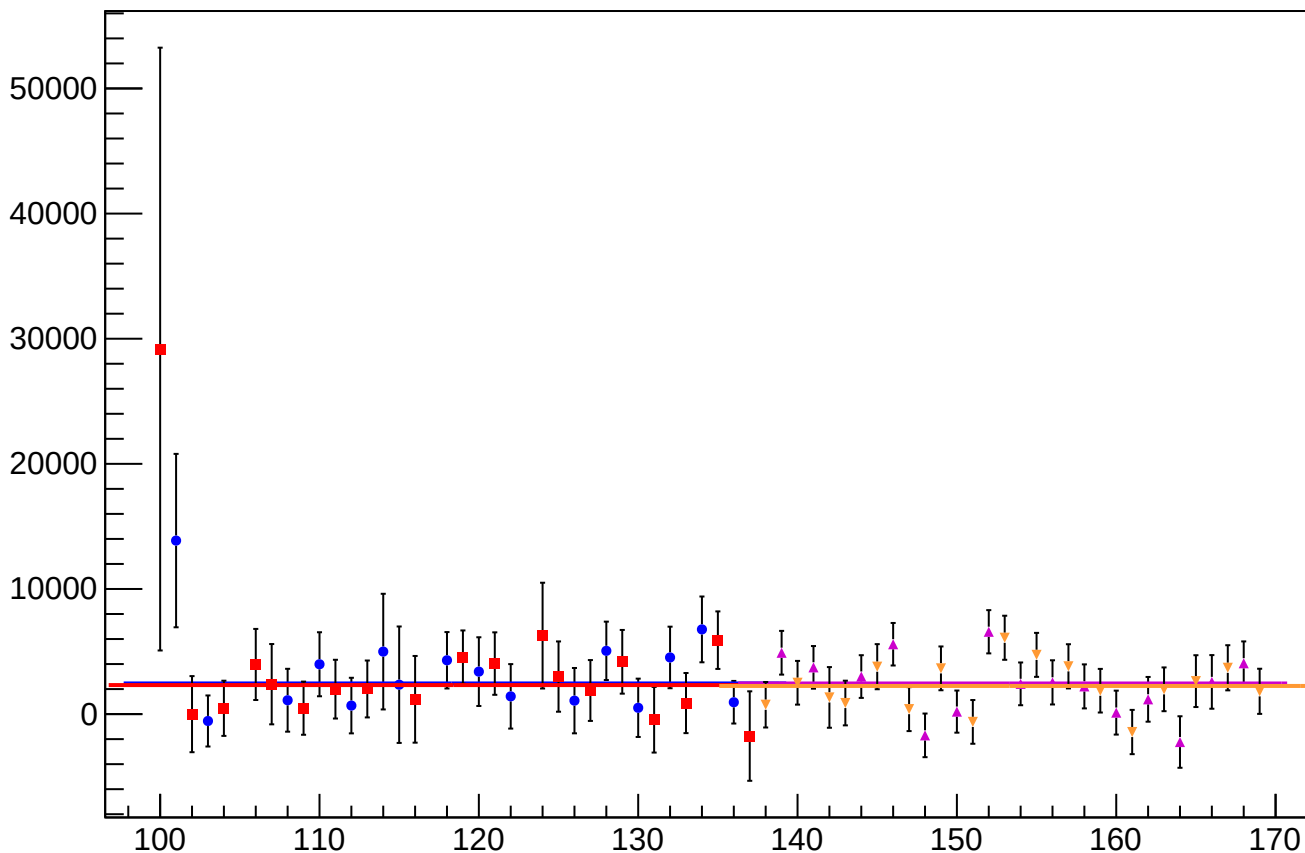
Right: 846.386+/-0.164 χ^2/NDF : 1941284.0/34

In: 926.688+/-0.153 χ^2/NDF : 2296562.2/30

Out: 892.036+/-0.144 χ^2/NDF : 2629457.2/35

All: 908.322+/-0.105 χ^2/NDF : 4953119.5/66

cor_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2449.397+/-630.235 χ^2/NDF : 13.8/15

Left Out: 2249.956+/-438.911 χ^2/NDF : 19.3/16

Right Out: 2320.575+/-609.657 χ^2/NDF : 12.1/18

Left In: 2446.564+/-457.187 χ^2/NDF : 27.5/14

Left: 2344.252+/-316.621 χ^2/NDF : 47.0/31

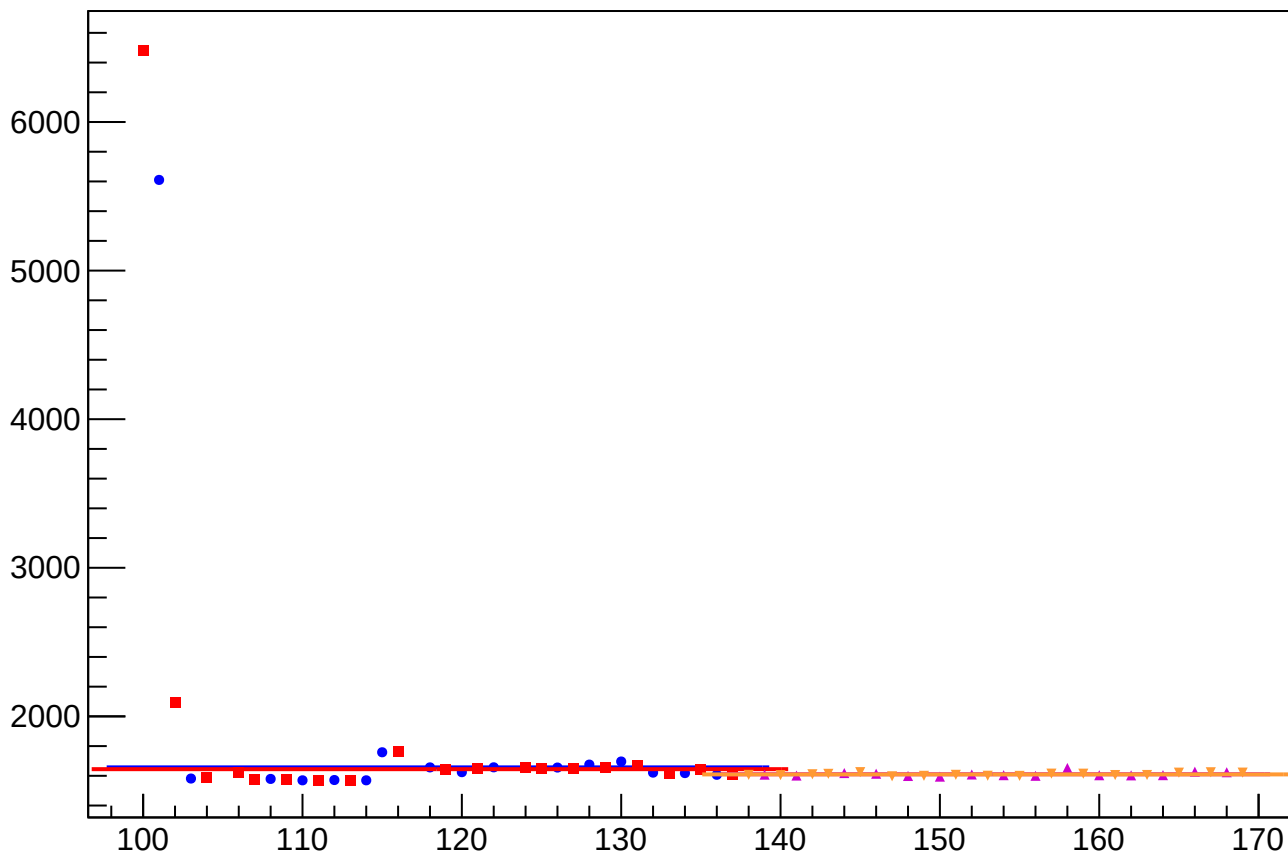
Right: 2382.848+/-438.187 χ^2/NDF : 25.9/34

In: 2447.541+/-370.069 χ^2/NDF : 41.3/30

Out: 2274.063+/-356.203 χ^2/NDF : 31.4/35

All: 2357.491+/-256.635 χ^2/NDF : 72.9/66

cor_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1656.683 $\pm$ 0.446 χ^2 /NDF: 666225.7/15

Left Out: 1609.523 $\pm$ 0.310 χ^2 /NDF: 797.8/16

Right Out: 1644.733 $\pm$ 0.431 χ^2 /NDF: 136483.1/18

Left In: 1610.711 $\pm$ 0.323 χ^2 /NDF: 1955.4/14

Left: 1610.092 $\pm$ 0.224 χ^2 /NDF: 2760.3/31

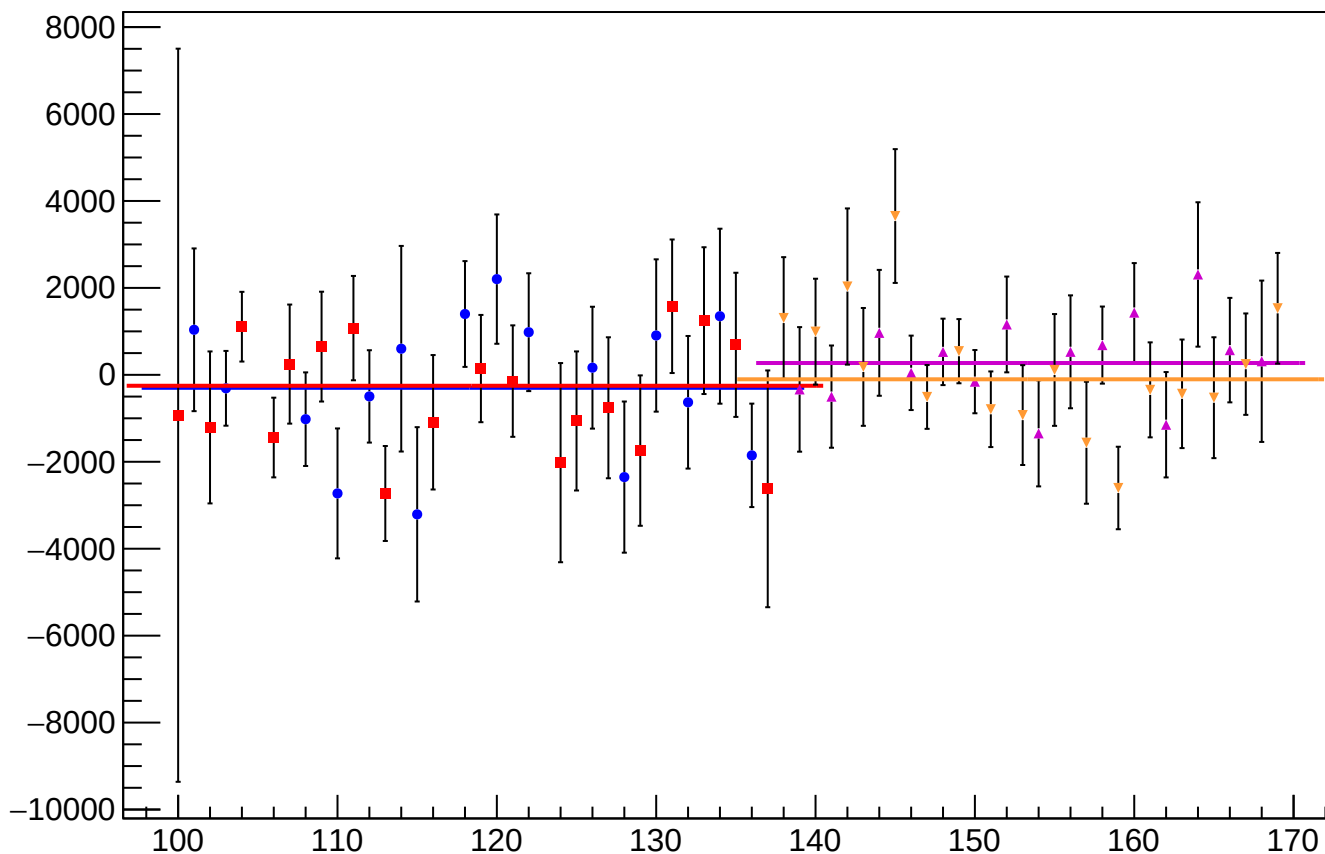
Right: 1650.510 $\pm$ 0.310 χ^2 /NDF: 803080.3/34

In: 1626.562 $\pm$ 0.262 χ^2 /NDF: 675153.8/30

Out: 1621.542 $\pm$ 0.252 χ^2 /NDF: 141674.7/35

All: 1623.956 $\pm$ 0.181 χ^2 /NDF: 817019.4/66

asym_usr_atr1_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -297.794 $\pm$ 343.391 χ^2 /NDF: 15.9/15

Left Out: -102.667 $\pm$ 269.172 χ^2 /NDF:21.5/16

Right Out: -251.230 $\pm$ 315.749 χ^2 /NDF: 17.3/18

Left In: 272.190 $\pm$ 279.369 χ^2 /NDF:8.0/14

Left: 77.795 $\pm$ 193.838 χ^2 /NDF: 30.4/31

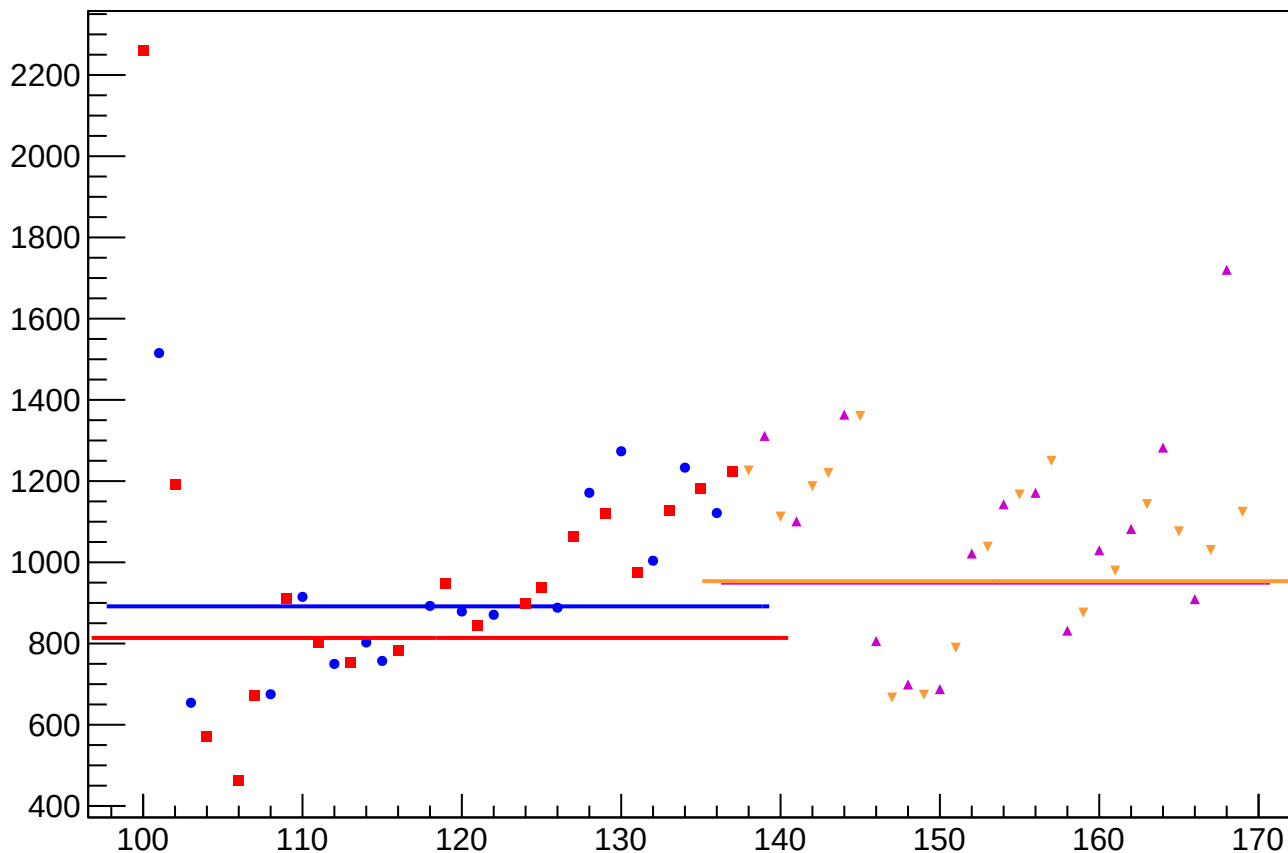
Right: -272.563 $\pm$ 232.427 χ^2 /NDF: 33.2/34

In: 45.181 $\pm$ 216.710 χ^2 /NDF:25.6/30

Out: -165.193 $\pm$ 204.841 χ^2 /NDF:38.8/35

All: -65.924 $\pm$ 148.864 χ^2 /NDF: 65.0/66

asym_usr_atr1_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 891.533+/-0.243 χ^2/NDF : 793657.2/15

Left Out: 953.587+/-0.190 χ^2/NDF : 1299659.7/16

Right Out: 813.807+/-0.223 χ^2/NDF : 1052991.6/18

Left In: 949.889+/-0.198 χ^2/NDF : 1467988.4/14

Left: 951.806+/-0.137 χ^2/NDF : 2767829.8/31

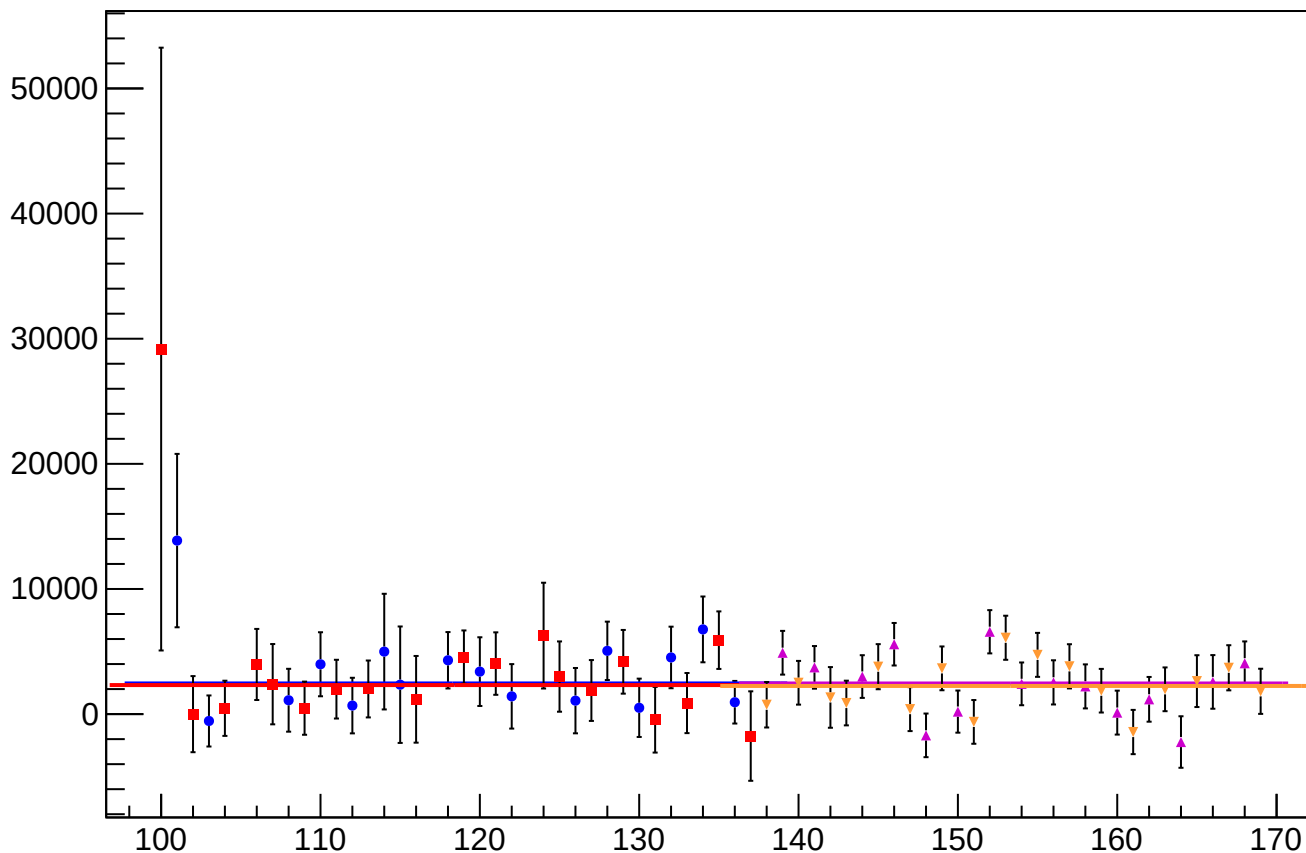
Right: 849.416+/-0.164 χ^2/NDF : 1902171.7/34

In: 926.647+/-0.153 χ^2/NDF : 2296400.7/30

Out: 894.757+/-0.145 χ^2/NDF : 2579641.2/35

All: 909.805+/-0.105 χ^2/NDF : 4898914.8/66

eigen_cor_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2449.397+/-630.235 χ^2/NDF : 13.8/15

Left Out: 2249.956+/-438.911 χ^2/NDF : 19.3/16

Right Out: 2320.575+/-609.657 χ^2/NDF : 12.1/18

Left In: 2446.564+/-457.187 χ^2/NDF : 27.5/14

Left: 2344.252+/-316.621 χ^2/NDF : 47.0/31

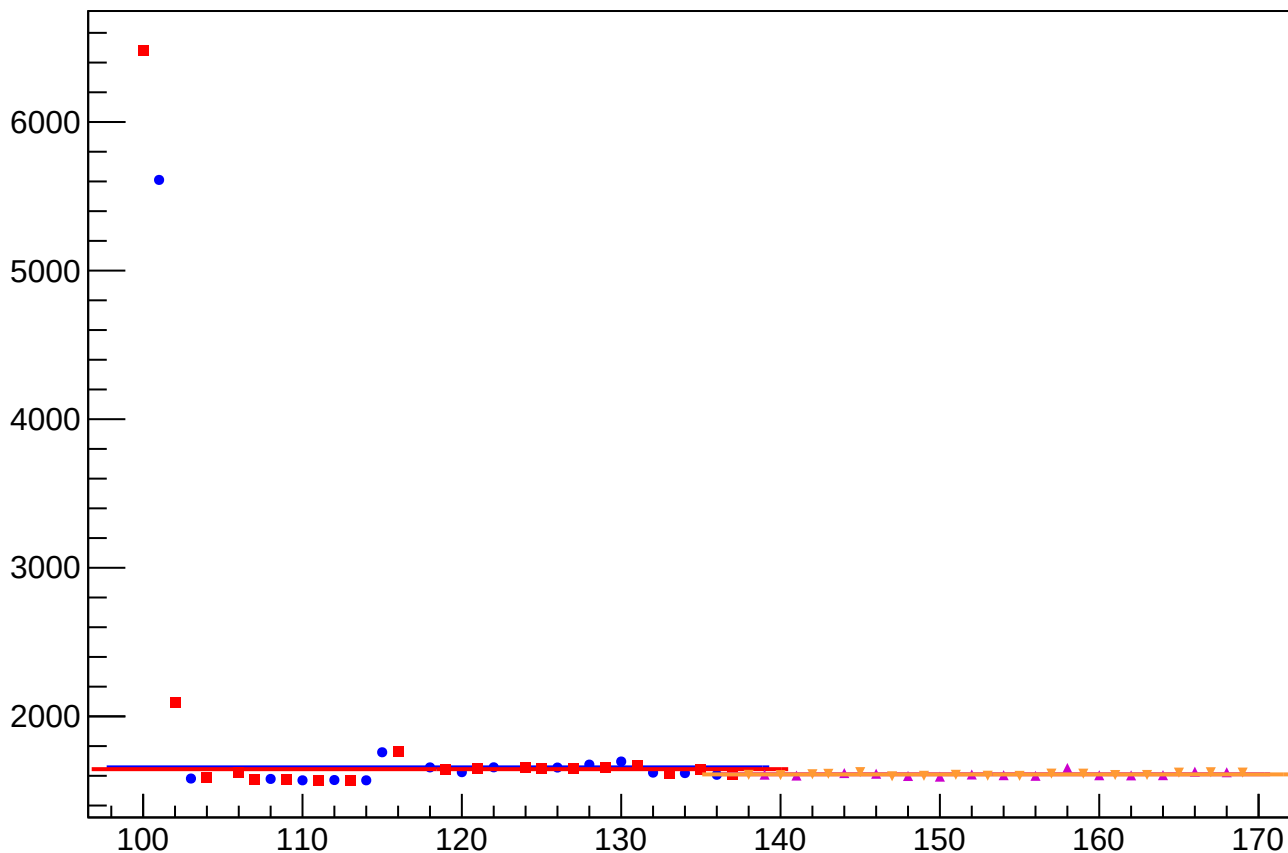
Right: 2382.848+/-438.187 χ^2/NDF : 25.9/34

In: 2447.541+/-370.069 χ^2/NDF : 41.3/30

Out: 2274.063+/-356.203 χ^2/NDF : 31.4/35

All: 2357.491+/-256.635 χ^2/NDF : 72.9/66

eigen_cor_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1656.683 $\pm$ 0.446 χ^2 /NDF: 666225.7/15

Left Out: 1609.523 $\pm$ 0.310 χ^2 /NDF: 797.8/16

Right Out: 1644.733 $\pm$ 0.431 χ^2 /NDF: 136483.1/18

Left In: 1610.711 $\pm$ 0.323 χ^2 /NDF: 1955.4/14

Left: 1610.092 $\pm$ 0.224 χ^2 /NDF: 2760.3/31

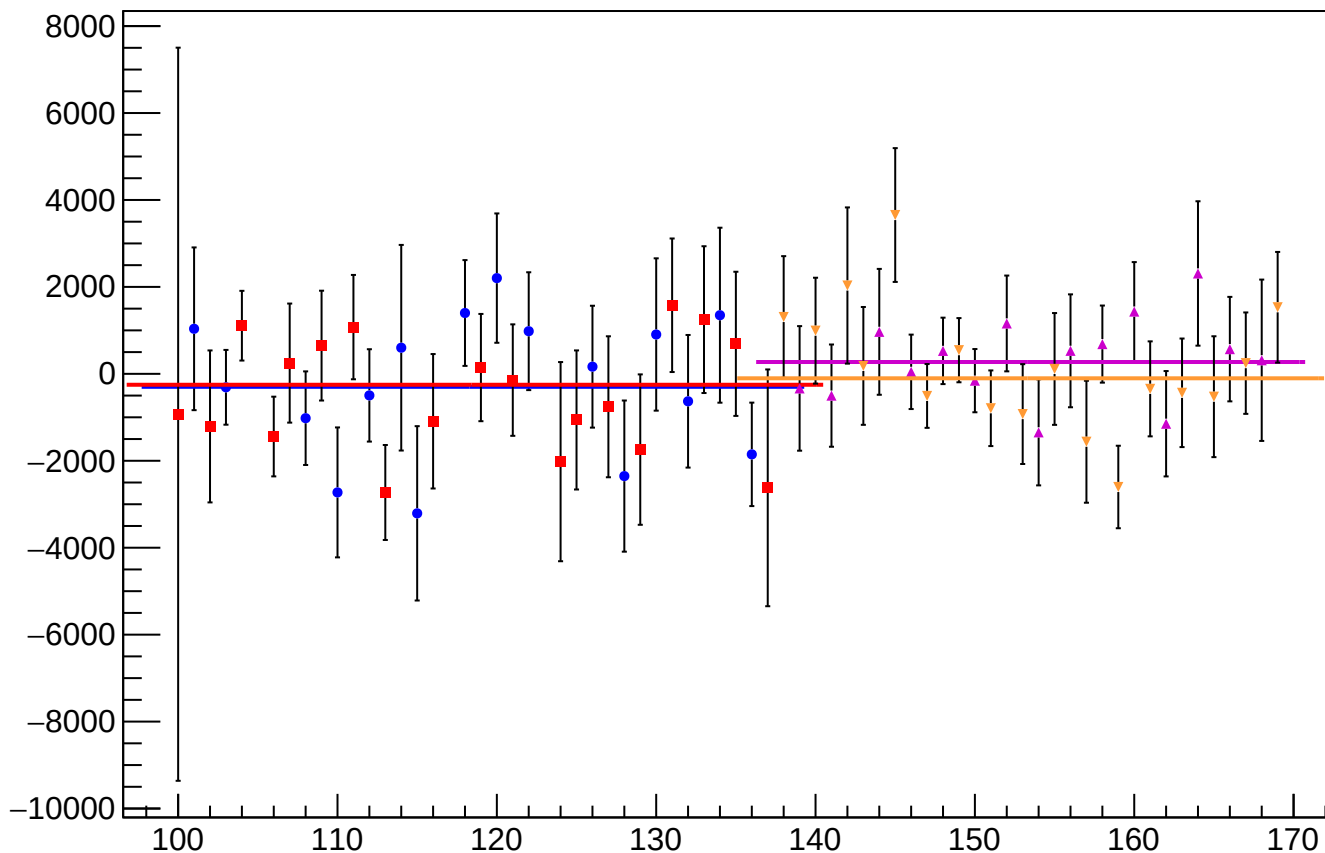
Right: 1650.510 $\pm$ 0.310 χ^2 /NDF: 803080.3/34

In: 1626.562 $\pm$ 0.262 χ^2 /NDF: 675153.8/30

Out: 1621.542 $\pm$ 0.252 χ^2 /NDF: 141674.7/35

All: 1623.956 $\pm$ 0.181 χ^2 /NDF: 817019.4/66

asym_usr_atr1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -297.794+/-343.391 χ^2/NDF : 15.9/15

Left Out: -102.667+/-269.172 χ^2/NDF : 21.5/16

Right Out: -251.230+/-315.749 χ^2/NDF : 17.3/18

Left In: 272.190+/-279.369 χ^2/NDF : 8.0/14

Left: 77.795+/-193.838 χ^2/NDF : 30.4/31

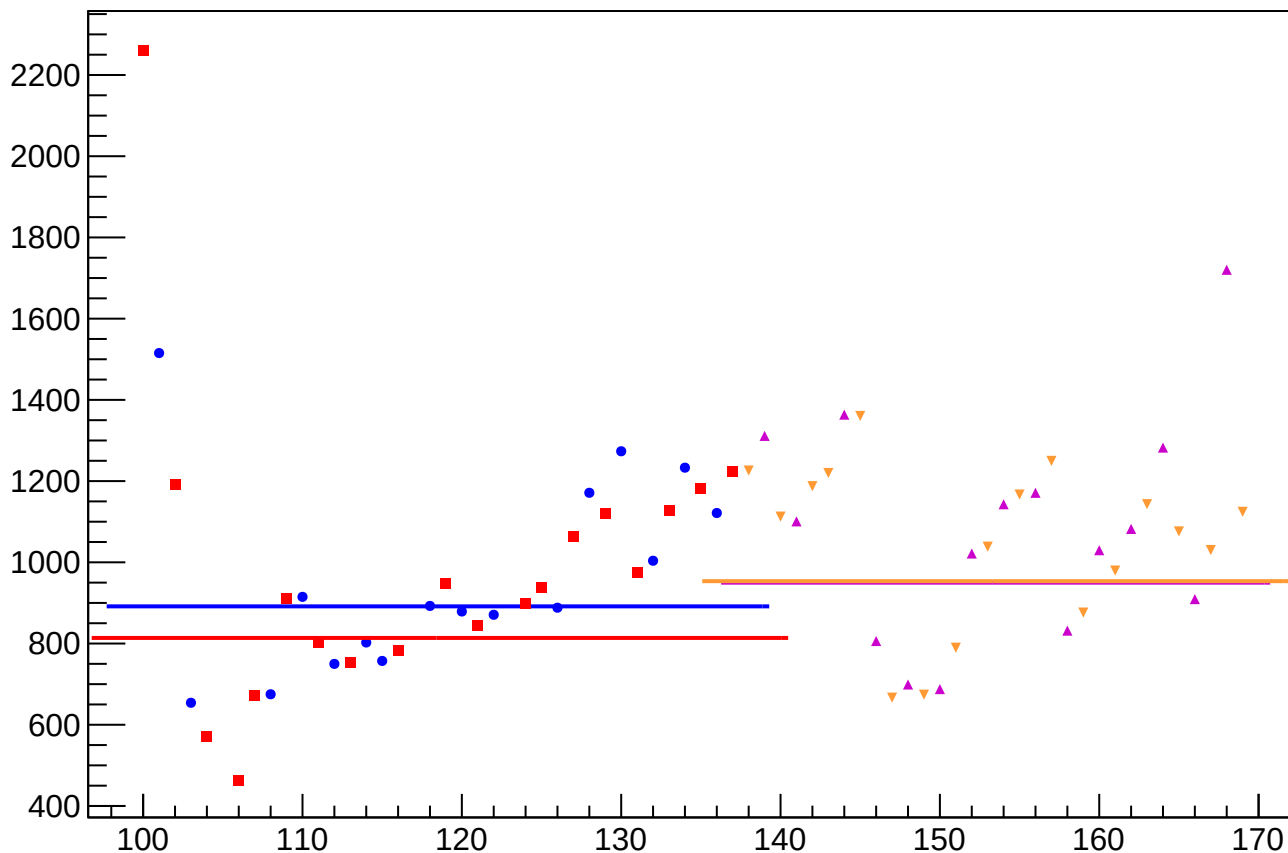
Right: -272.563+/-232.427 χ^2/NDF : 33.2/34

In: 45.181+/-216.710 χ^2/NDF : 25.6/30

Out: -165.193+/-204.841 χ^2/NDF : 38.8/35

All: -65.924+/-148.864 χ^2/NDF : 65.0/66

asym_usr_atr1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 891.533+/-0.243 χ^2/NDF : 793657.2/15

Left Out: 953.587+/-0.190 χ^2/NDF : 1299659.7/16

Right Out: 813.807+/-0.223 χ^2/NDF : 1052991.6/18

Left In: 949.889+/-0.198 χ^2/NDF : 1467988.4/14

Left: 951.806+/-0.137 χ^2/NDF : 2767829.8/31

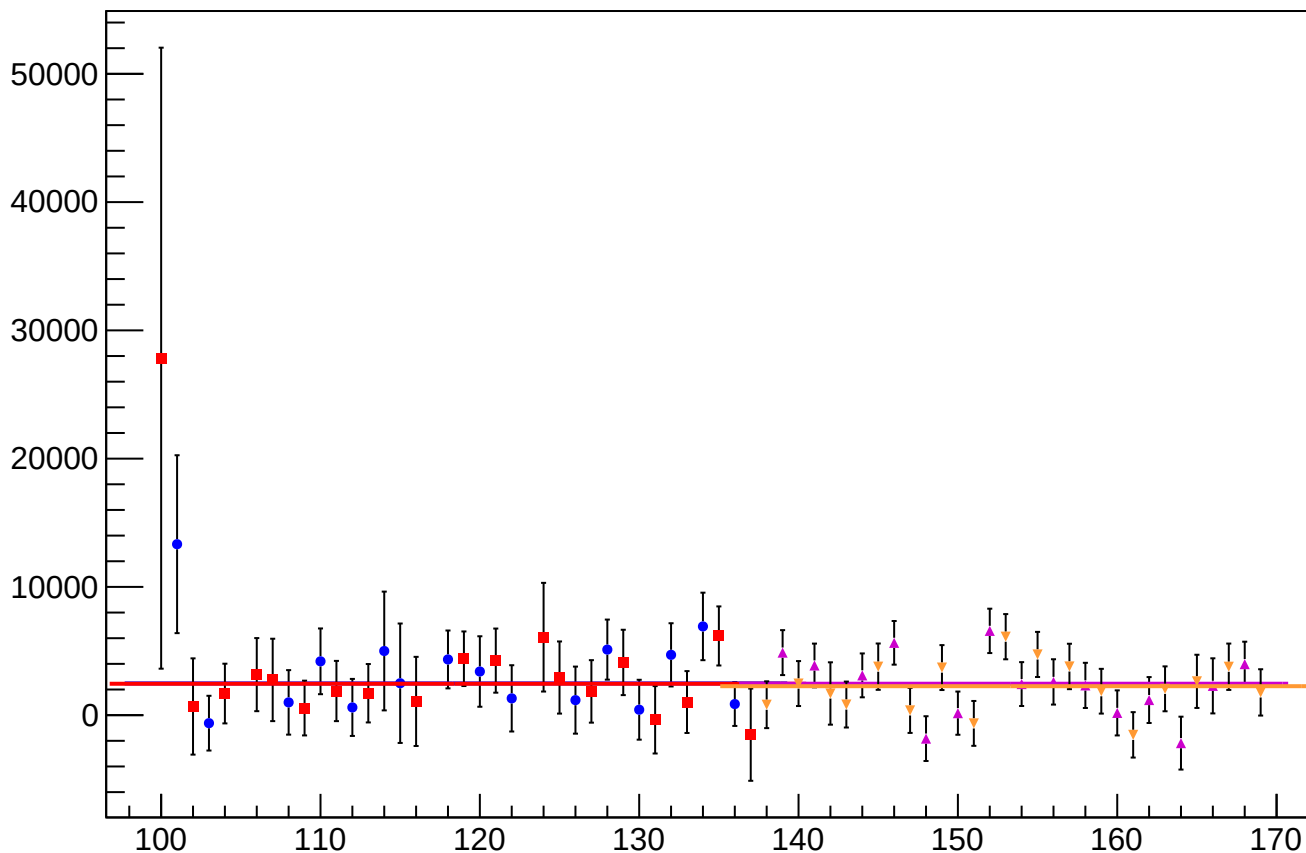
Right: 849.416+/-0.164 χ^2/NDF : 1902171.7/34

In: 926.647+/-0.153 χ^2/NDF : 2296400.7/30

Out: 894.757+/-0.145 χ^2/NDF : 2579641.2/35

All: 909.805+/-0.105 χ^2/NDF : 4898914.8/66

dit_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2475.229+/-633.866 χ^2/NDF : 14.2/15

Left Out: 2258.882+/-439.583 χ^2/NDF : 19.6/16

Right Out: 2449.053+/-617.532 χ^2/NDF : 10.6/18

Left In: 2451.149+/-457.795 χ^2/NDF : 27.8/14

Left: 2351.115+/-317.075 χ^2/NDF : 47.6/31

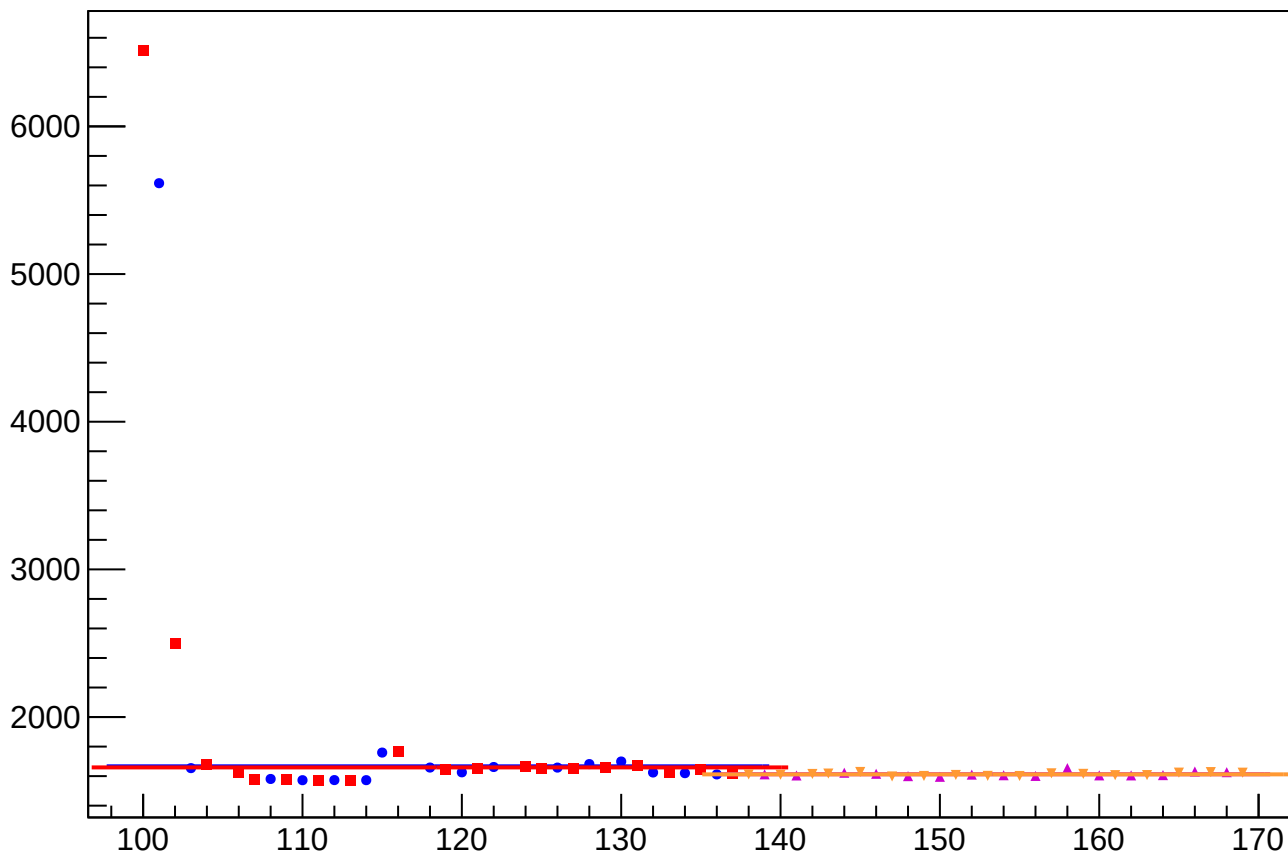
Right: 2461.799+/-442.323 χ^2/NDF : 24.8/34

In: 2459.404+/-371.124 χ^2/NDF : 42.0/30

Out: 2322.837+/-358.117 χ^2/NDF : 30.2/35

All: 2388.686+/-257.703 χ^2/NDF : 72.4/66

dit_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1666.400+/-0.448 χ^2/NDF : 662914.5/15

Left Out: 1611.978+/-0.311 χ^2/NDF : 914.8/16

Right Out: 1659.005+/-0.437 χ^2/NDF : 193223.7/18

Left In: 1612.837+/-0.324 χ^2/NDF : 2037.1/14

Left: 1612.390+/-0.224 χ^2/NDF : 2955.6/31

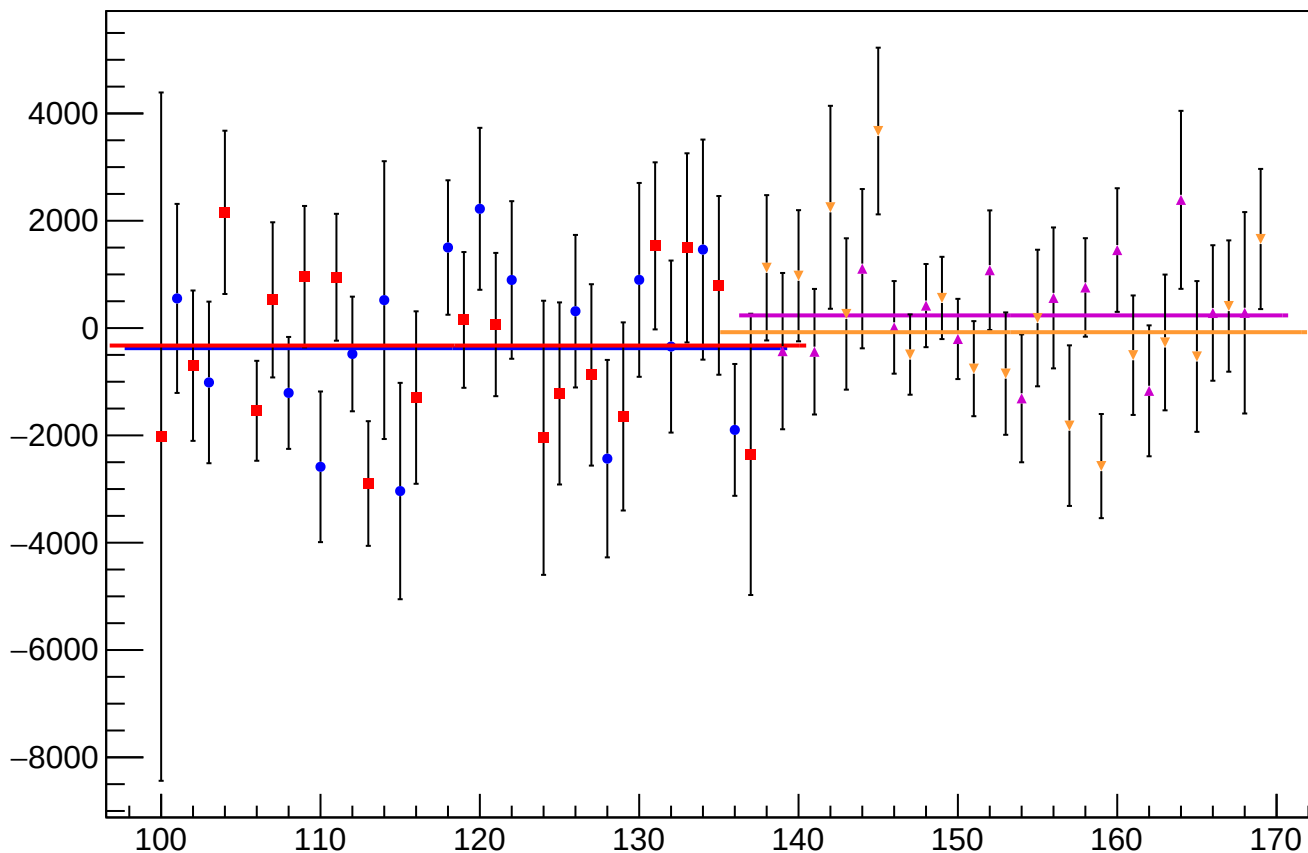
Right: 1662.606+/-0.313 χ^2/NDF : 856277.9/34

In: 1631.199+/-0.262 χ^2/NDF : 674337.1/30

Out: 1627.793+/-0.253 χ^2/NDF : 201836.3/35

All: 1629.435+/-0.182 χ^2/NDF : 876260.6/66

asym_usr_atr1_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -374.592+/-367.944 χ^2/NDF : 15.7/15

Left Out: -76.651+/-274.640 χ^2/NDF :21.2/16

Right Out: -325.671+/-340.620 χ^2/NDF : 17.4/18

Left In: 236.302+/-283.649 χ^2/NDF :8.1/14

Left: 74.777+/-197.308 χ^2/NDF : 29.9/31

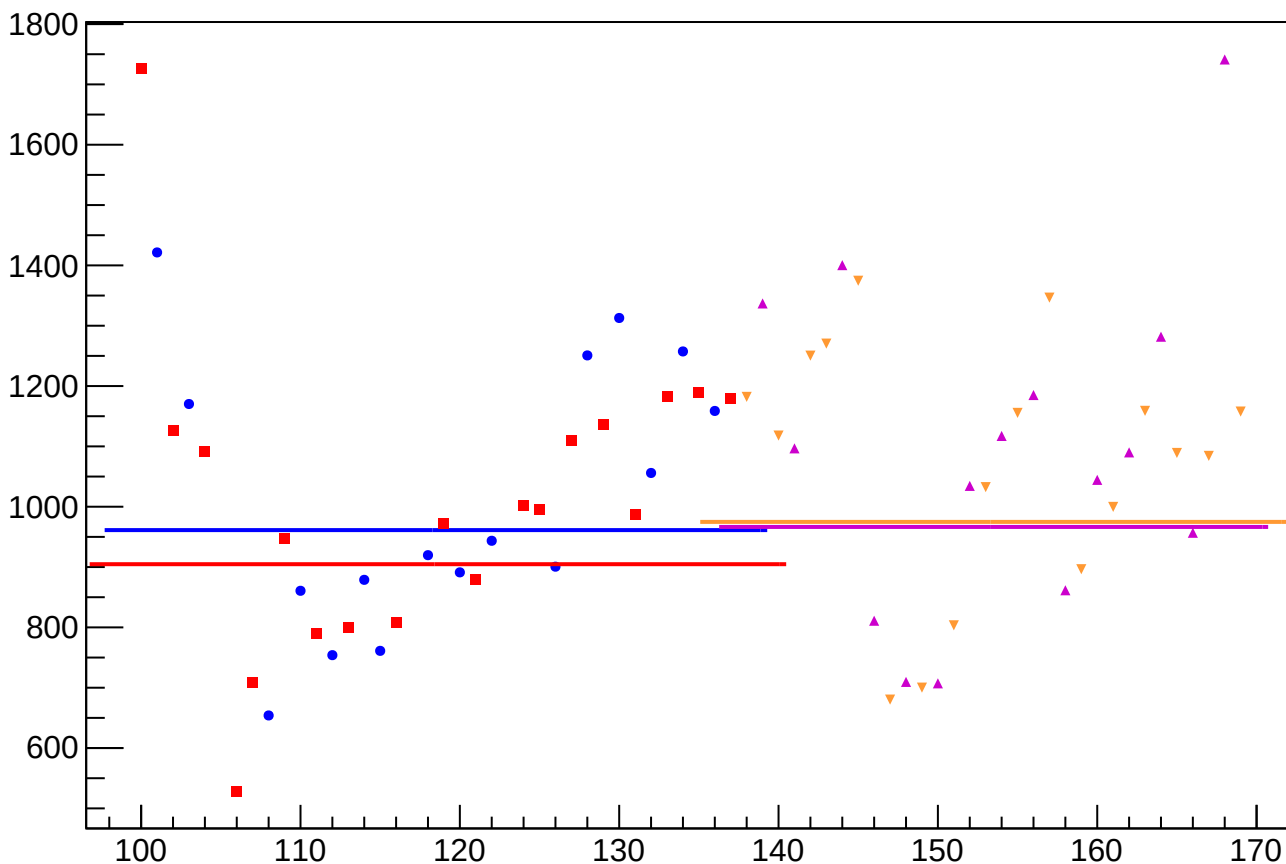
Right: -348.248+/-249.957 χ^2/NDF : 33.1/34

In: 8.584+/-224.646 χ^2/NDF :25.6/30

Out: -174.760+/-213.800 χ^2/NDF :38.9/35

All: -87.620+/-154.872 χ^2/NDF : 64.8/66

asym_usr_atr1_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 961.243 $\pm$ 0.260 χ^2 /NDF: 691875.4/15

Left Out: 974.859 $\pm$ 0.194 χ^2 /NDF: 1271890.0/16

Right Out: 904.736 $\pm$ 0.241 χ^2 /NDF: 736484.7/18

Left In: 966.484 $\pm$ 0.201 χ^2 /NDF: 1414090.8/14

Left: 970.807 $\pm$ 0.140 χ^2 /NDF: 2686880.7/31

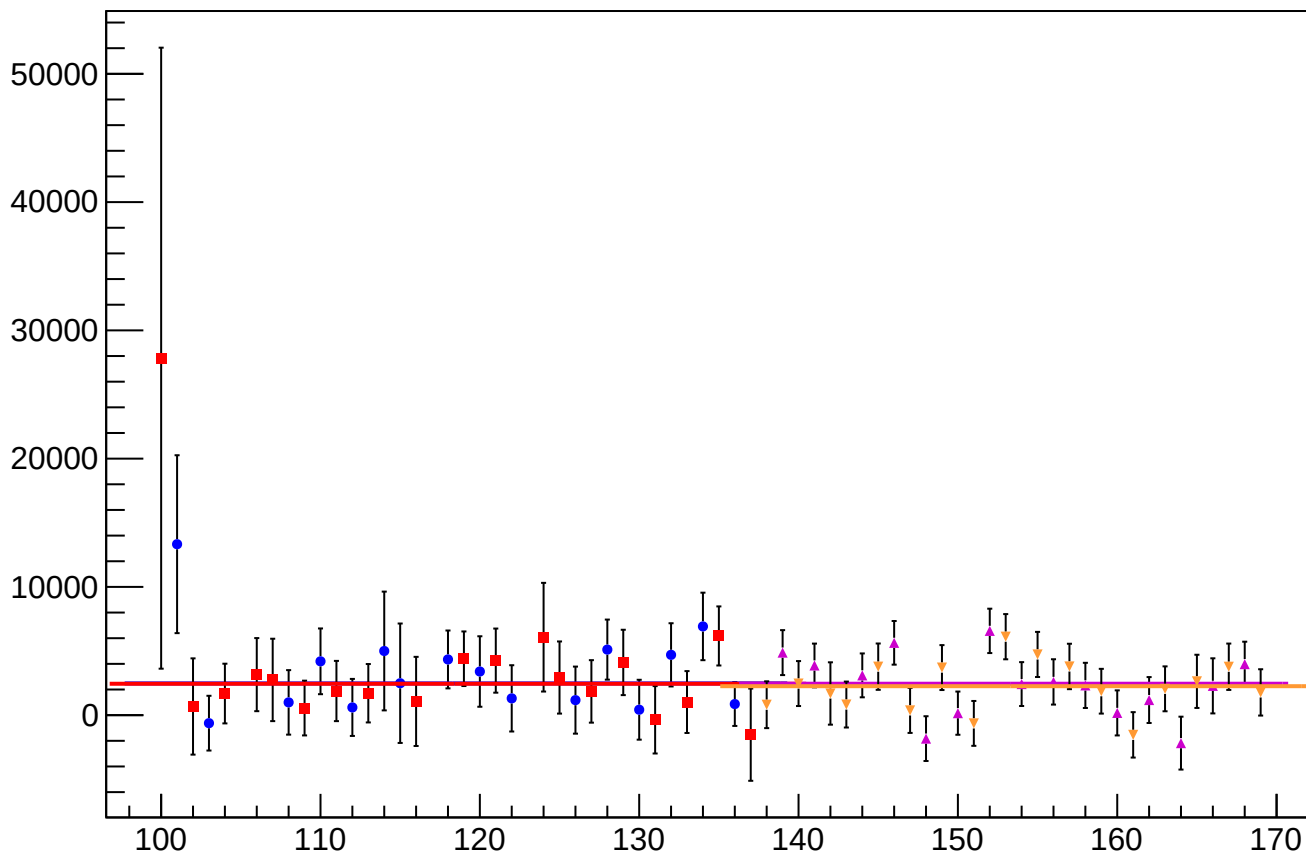
Right: 930.814 $\pm$ 0.177 χ^2 /NDF: 1453761.0/34

In: 964.530 $\pm$ 0.159 χ^2 /NDF: 2106220.8/30

Out: 947.232 $\pm$ 0.151 χ^2 /NDF: 2059743.5/35

All: 955.454 $\pm$ 0.110 χ^2 /NDF: 4172186.7/66

eigen_dit_asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2475.228+/-633.866 χ^2/NDF : 14.2/15

Left Out: 2258.881+/-439.583 χ^2/NDF : 19.6/16

Right Out: 2449.053+/-617.532 χ^2/NDF : 10.6/18

Left In: 2451.150+/-457.795 χ^2/NDF : 27.8/14

Left: 2351.115+/-317.075 χ^2/NDF : 47.6/31

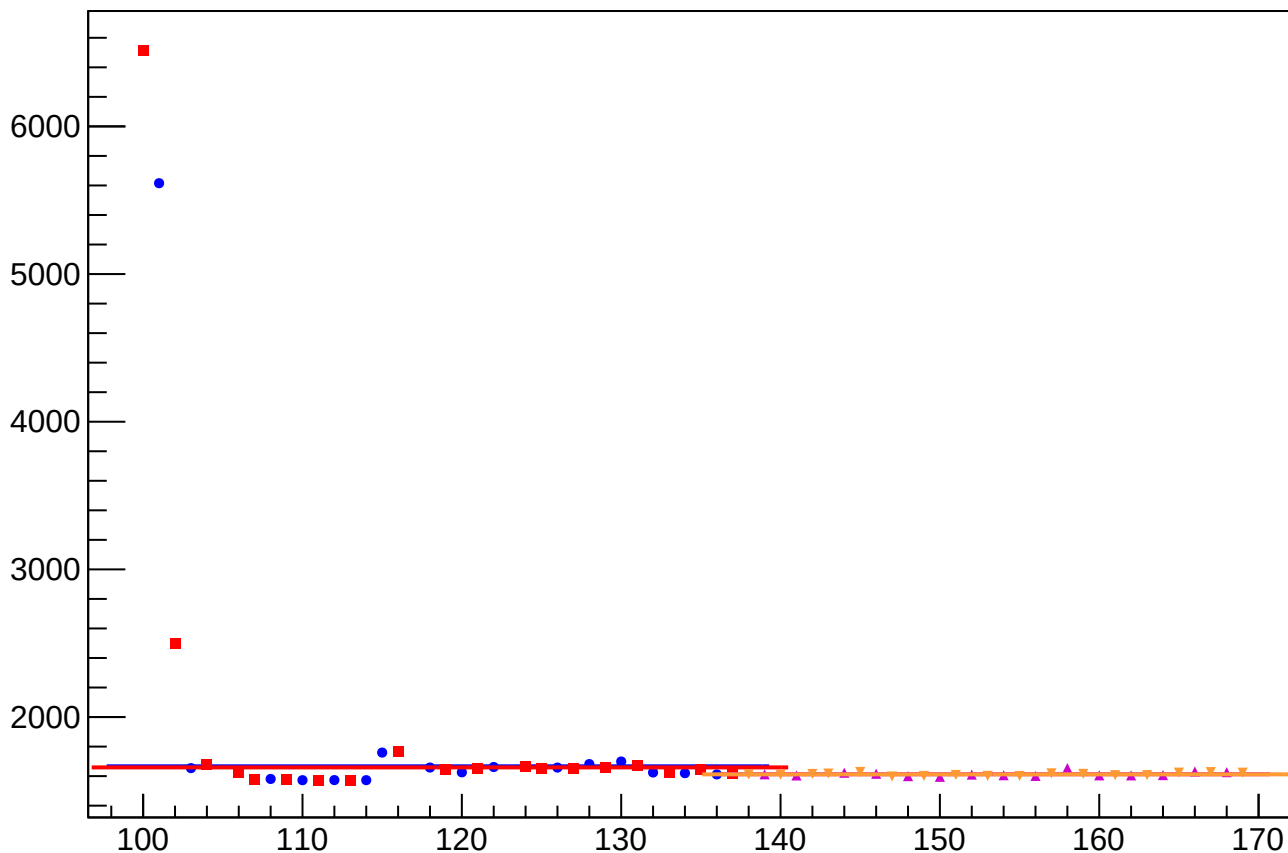
Right: 2461.799+/-442.323 χ^2/NDF : 24.8/34

In: 2459.404+/-371.124 χ^2/NDF : 42.0/30

Out: 2322.837+/-358.117 χ^2/NDF : 30.2/35

All: 2388.685+/-257.703 χ^2/NDF : 72.4/66

eigen_dit_asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1666.400+/-0.448 χ^2/NDF : 662914.5/15

Left Out: 1611.978+/-0.311 χ^2/NDF : 914.8/16

Right Out: 1659.004+/-0.437 χ^2/NDF : 193223.5/18

Left In: 1612.837+/-0.324 χ^2/NDF : 2037.1/14

Left: 1612.390+/-0.224 χ^2/NDF : 2955.6/31

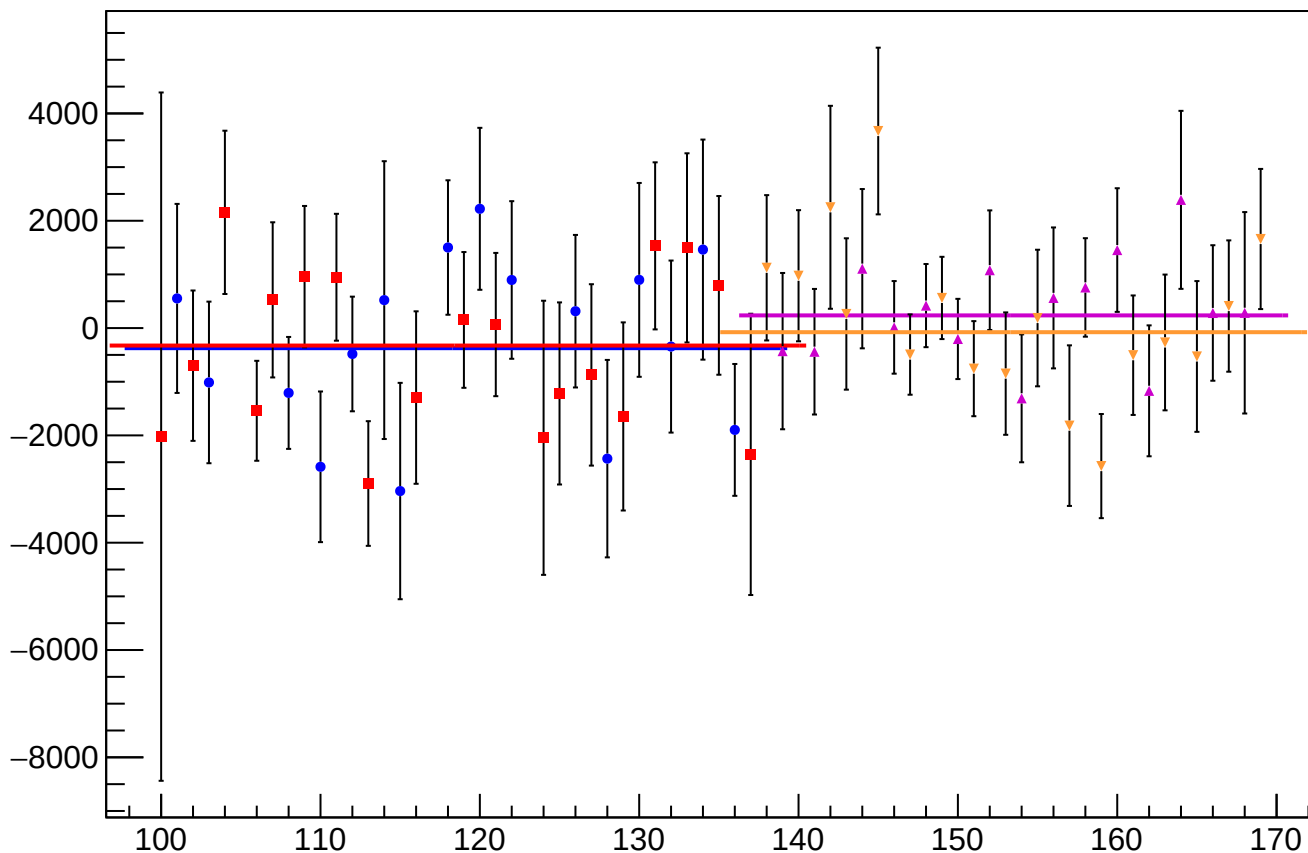
Right: 1662.606+/-0.313 χ^2/NDF : 856277.7/34

In: 1631.199+/-0.262 χ^2/NDF : 674337.1/30

Out: 1627.793+/-0.253 χ^2/NDF : 201836.1/35

All: 1629.435+/-0.182 χ^2/NDF : 876260.3/66

asym_usr_atr1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -374.590 $\pm$ 367.943 χ^2 /NDF: 15.7/15

Left Out: -76.653 $\pm$ 274.641 χ^2 /NDF:21.2/16

Right Out: -325.670 $\pm$ 340.619 χ^2 /NDF: 17.4/18

Left In: 236.303 $\pm$ 283.650 χ^2 /NDF:8.1/14

Left: 74.776 $\pm$ 197.308 χ^2 /NDF: 29.9/31

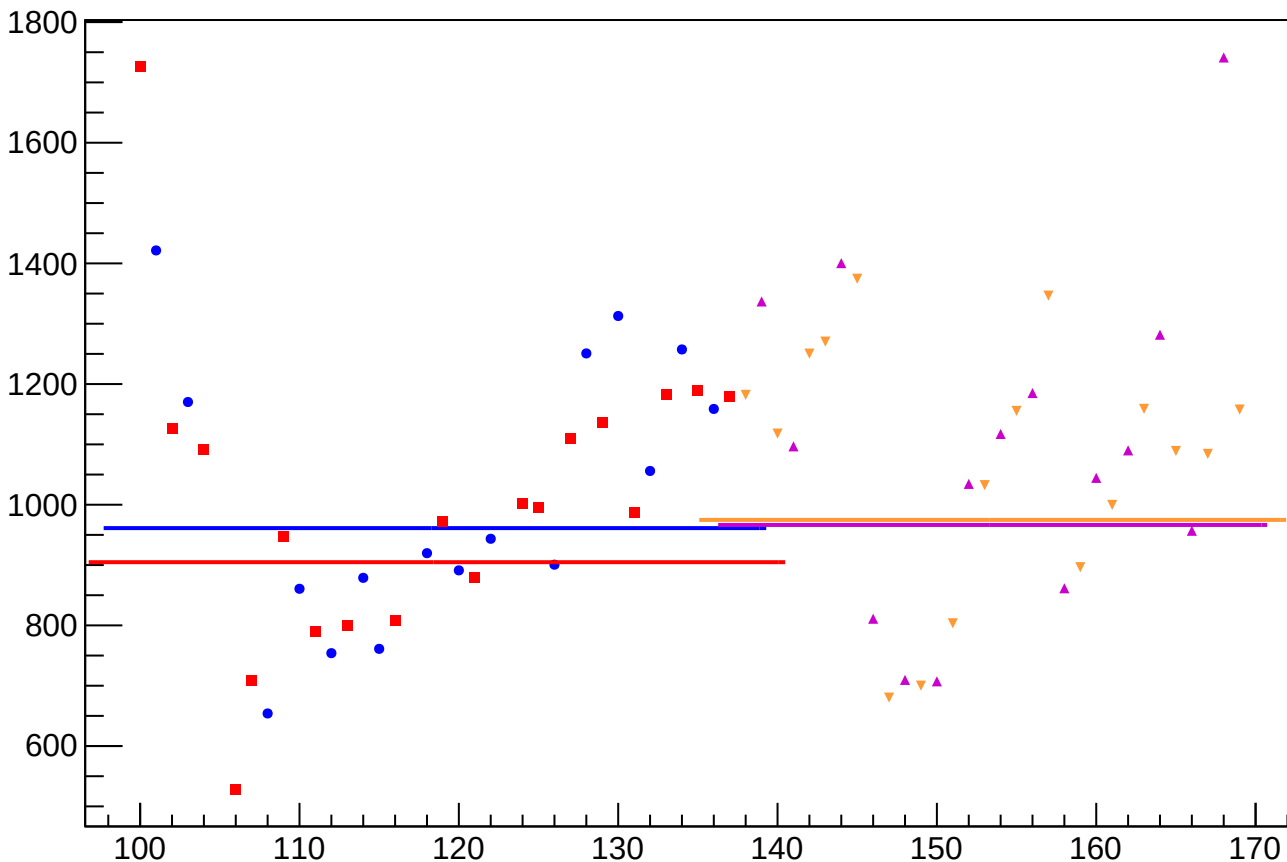
Right: -348.247 $\pm$ 249.956 χ^2 /NDF: 33.1/34

In: 8.583 $\pm$ 224.646 χ^2 /NDF:25.6/30

Out: -174.761 $\pm$ 213.800 χ^2 /NDF:38.9/35

All: -87.621 $\pm$ 154.872 χ^2 /NDF: 64.8/66

asym_usr_atr1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 961.239+/-0.260 χ^2/NDF : 691883.4/15

Left Out: 974.861+/-0.194 χ^2/NDF : 1271893.2/16

Right Out: 904.734+/-0.241 χ^2/NDF : 736482.2/18

Left In: 966.486+/-0.201 χ^2/NDF : 1414094.2/14

Left: 970.809+/-0.140 χ^2/NDF : 2686887.3/31

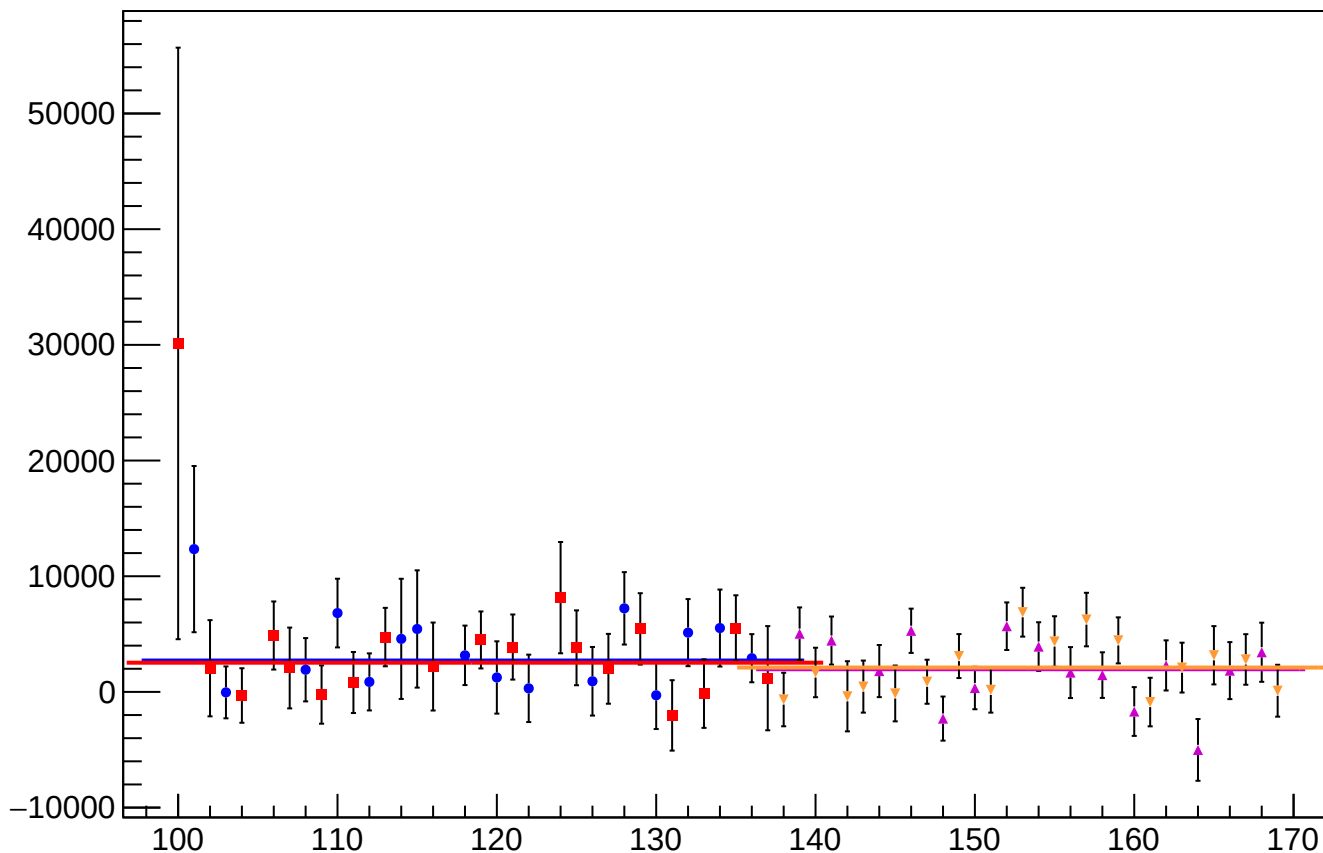
Right: 930.811+/-0.177 χ^2/NDF : 1453765.4/34

In: 964.530+/-0.159 χ^2/NDF : 2106232.8/30

Out: 947.232+/-0.151 χ^2/NDF : 2059750.8/35

All: 955.454+/-0.110 χ^2/NDF : 4172205.8/66

asym_usr_atr1_avg_mean vs Slug, Sign Corrected



Right In: 2711.394+/-735.088 χ^2/NDF : 12.1/15

Left Out: 2106.462+/-528.837 χ^2/NDF : 19.1/16

Right Out: 2525.536+/-706.449 χ^2/NDF : 13.2/18

Left In: 1959.006+/-551.380 χ^2/NDF : 26.5/14

Left: 2035.810+/-381.665 χ^2/NDF : 45.6/31

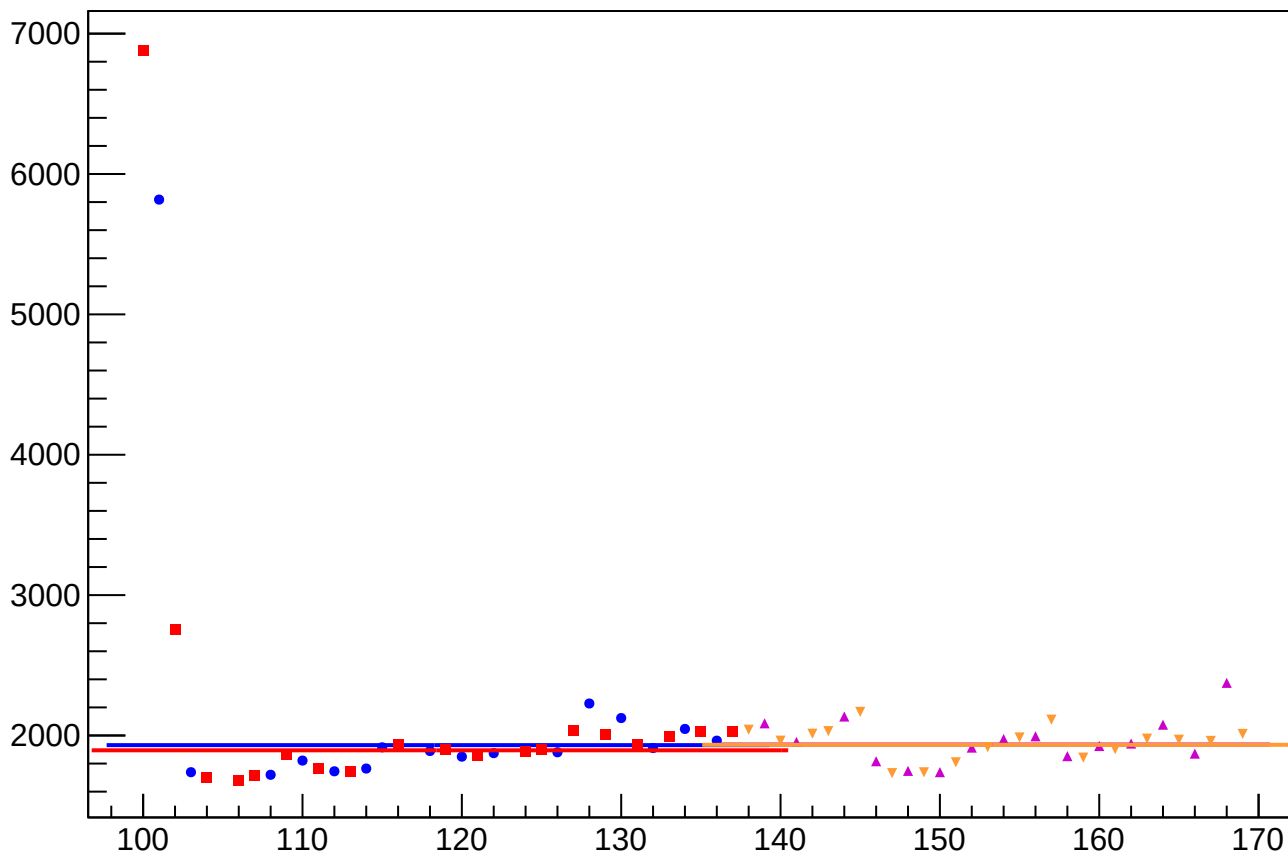
Right: 2614.774+/-509.359 χ^2/NDF : 25.4/34

In: 2229.906+/-441.086 χ^2/NDF : 39.3/30

Out: 2256.964+/-423.357 χ^2/NDF : 32.6/35

All: 2243.990+/-305.434 χ^2/NDF : 71.8/66

asym_usr_atr1_avg_rms vs Slug, Sign Corrected



Right In: 1931.250+/-0.520 χ^2/NDF : 661227.1/15

Left Out: 1933.530+/-0.374 χ^2/NDF : 102370.1/16

Right Out: 1894.349+/-0.500 χ^2/NDF : 220541.1/18

Left In: 1935.761+/-0.390 χ^2/NDF : 146908.5/14

Left: 1934.599+/-0.270 χ^2/NDF : 249295.6/31

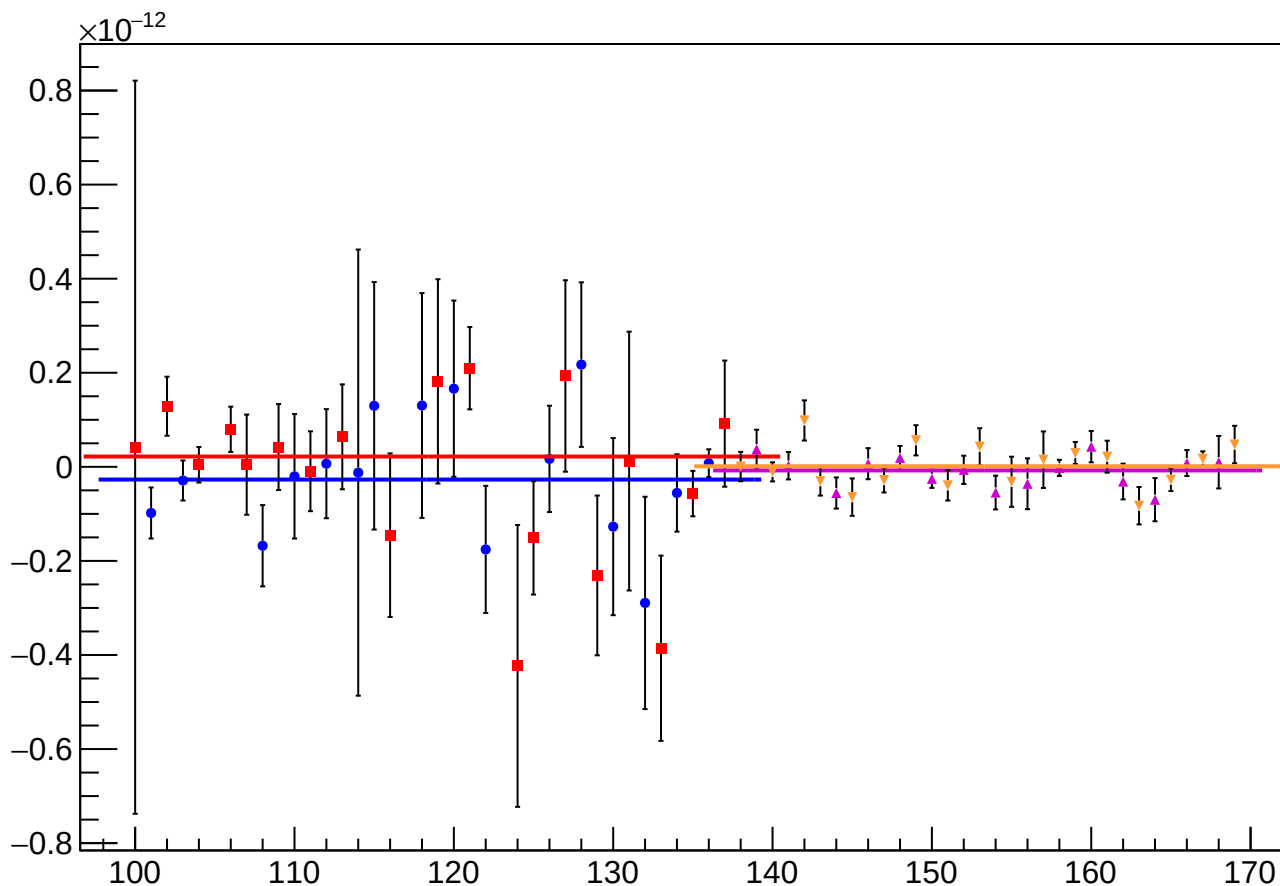
Right: 1912.067+/-0.360 χ^2/NDF : 884388.3/34

In: 1934.137+/-0.312 χ^2/NDF : 808183.7/30

Out: 1919.459+/-0.299 χ^2/NDF : 326853.8/35

All: 1926.497+/-0.216 χ^2/NDF : 1136190.3/66

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 12.7/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 26.7/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 25.4/18

Left In: -0.000 ± 0.000 χ^2/NDF : 12.6/14

Left: -0.000 ± 0.000 χ^2/NDF : 40.0/31

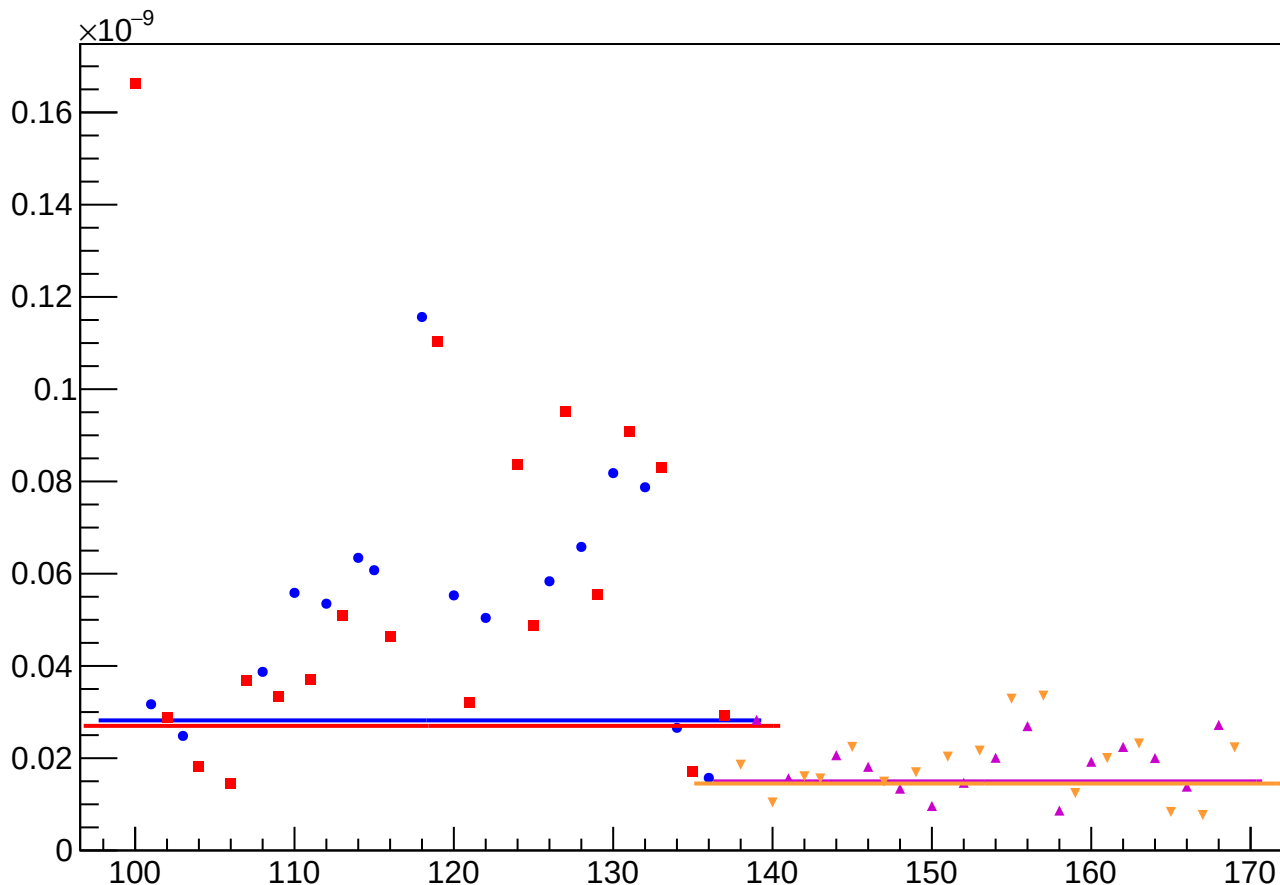
Right: -0.000 ± 0.000 χ^2/NDF : 41.4/34

In: -0.000 ± 0.000 χ^2/NDF : 26.2/30

Out: 0.000 ± 0.000 χ^2/NDF : 53.1/35

All: -0.000 ± 0.000 χ^2/NDF : 81.4/66

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1490571.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1525100.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1556165.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 1090963.1/14

Left: 0.000+/-0.000 χ^2/NDF : 2620063.9/31

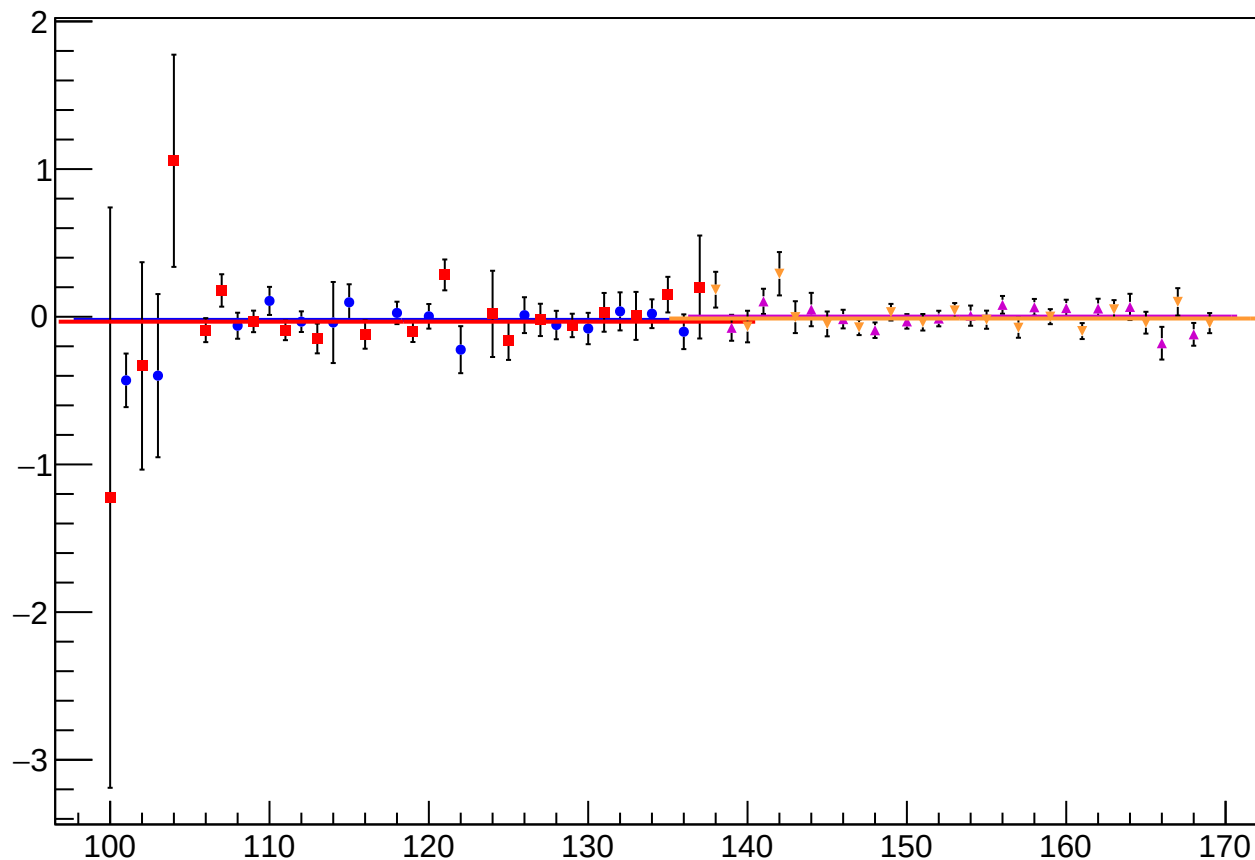
Right: 0.000+/-0.000 χ^2/NDF : 3050538.0/34

In: 0.000+/-0.000 χ^2/NDF : 3403280.6/30

Out: 0.000+/-0.000 χ^2/NDF : 3816280.0/35

All: 0.000+/-0.000 χ^2/NDF : 7233317.8/66

asym_usr_atr1_avg_dit_vs_Slug, Sign Corrected



Right In: -0.021 ± 0.027 $\chi^2/\text{NDF}: 12.0/15$

Left Out: -0.012 ± 0.016 $\chi^2/\text{NDF}: 16.8/16$

Right Out: -0.033 ± 0.025 $\chi^2/\text{NDF}: 24.4/18$

Left In: 0.001 ± 0.017 $\chi^2/\text{NDF}: 16.4/14$

Left: -0.006 ± 0.012 $\chi^2/\text{NDF}: 33.6/31$

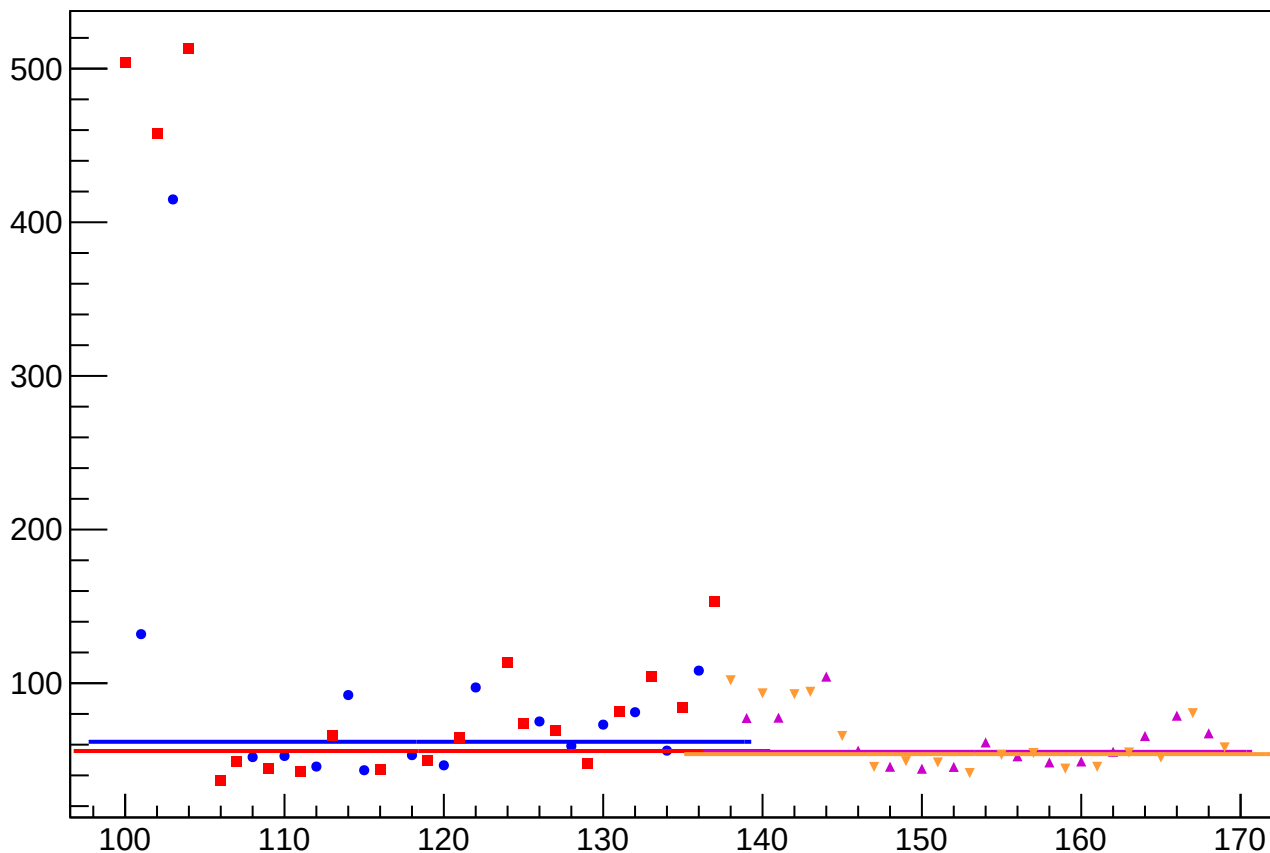
Right: -0.028 ± 0.018 $\chi^2/\text{NDF}: 36.5/34$

In: -0.005 ± 0.014 $\chi^2/\text{NDF}: 28.9/30$

Out: -0.018 ± 0.014 $\chi^2/\text{NDF}: 41.7/35$

All: -0.012 ± 0.010 $\chi^2/\text{NDF}: 71.1/66$

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.876 $\pm$ 0.019 χ^2 /NDF: 1937953.9/15

Left Out: 53.842 $\pm$ 0.011 χ^2 /NDF:1545902.7/16

Right Out: 55.887 $\pm$ 0.017 χ^2 /NDF: 2591275.8/18

Left In: 55.333 $\pm$ 0.012 χ^2 /NDF:1115391.1/14

Left: 54.551 $\pm$ 0.008 χ^2 /NDF: 2669357.2/31

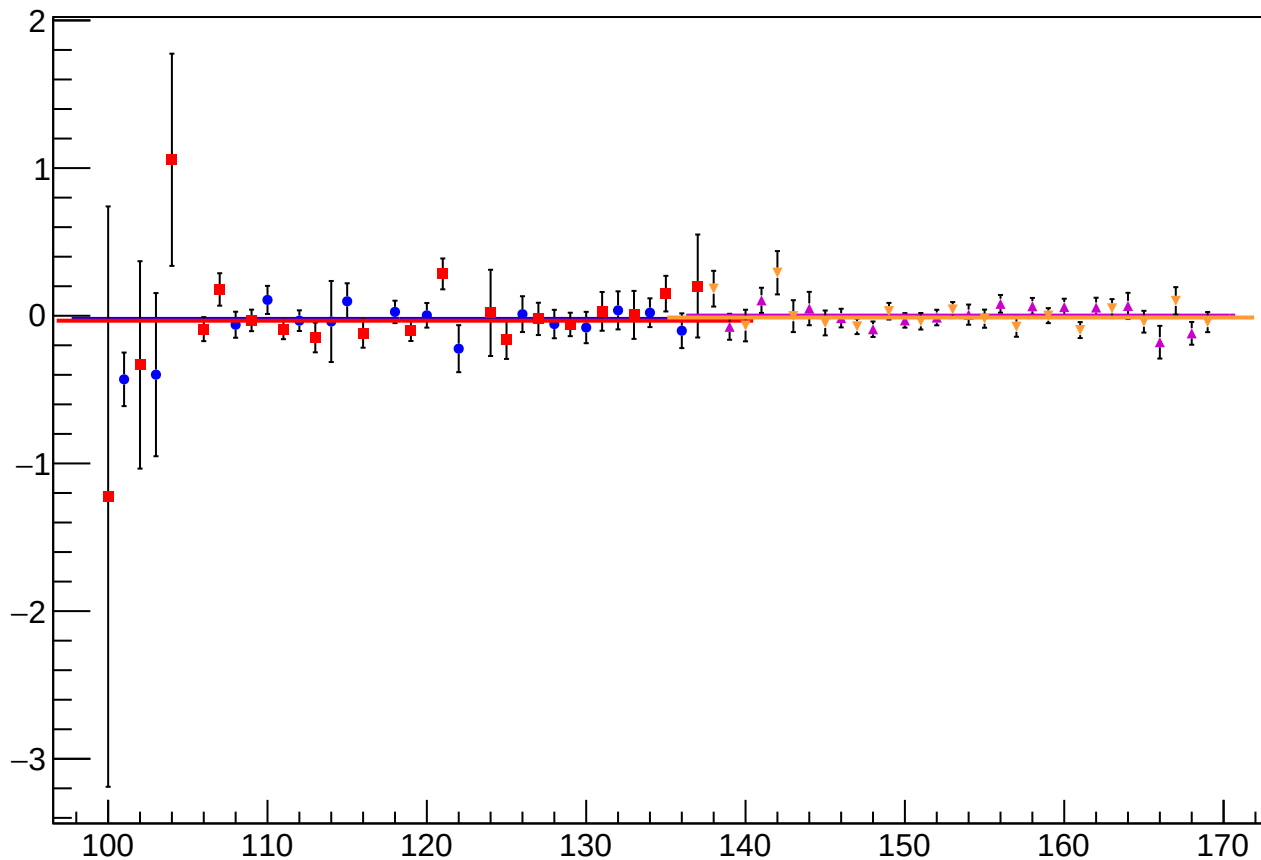
Right: 58.651 $\pm$ 0.013 χ^2 /NDF: 4584001.9/34

In: 57.236 $\pm$ 0.010 χ^2 /NDF:3139446.9/30

Out: 54.461 $\pm$ 0.010 χ^2 /NDF:4146832.3/35

All: 55.769 $\pm$ 0.007 χ^2 /NDF: 7325959.2/66

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.027 $\chi^2/\text{NDF}: 12.0/15$

Left Out: -0.012 ± 0.016 $\chi^2/\text{NDF}: 16.8/16$

Right Out: -0.033 ± 0.025 $\chi^2/\text{NDF}: 24.4/18$

Left In: 0.001 ± 0.017 $\chi^2/\text{NDF}: 16.4/14$

Left: -0.006 ± 0.012 $\chi^2/\text{NDF}: 33.6/31$

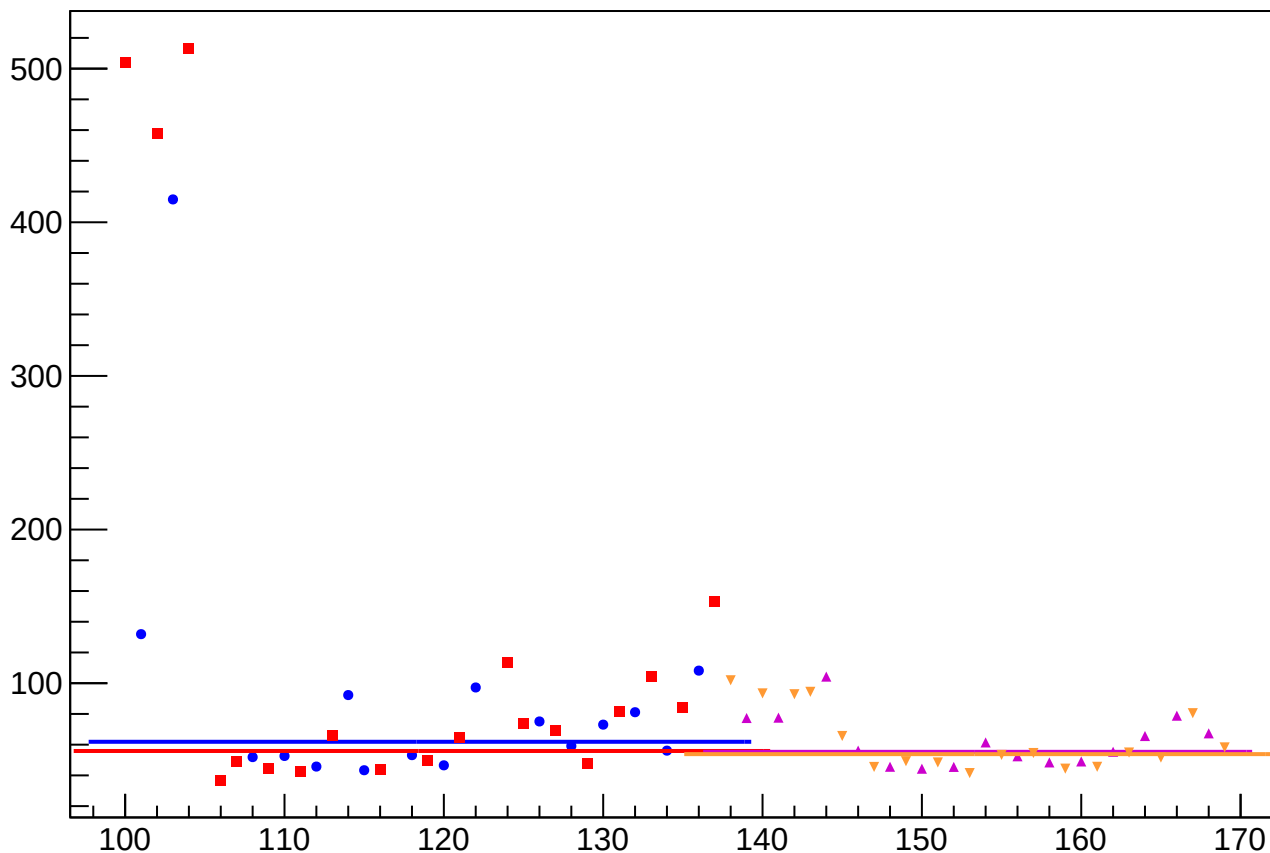
Right: -0.028 ± 0.018 $\chi^2/\text{NDF}: 36.5/34$

In: -0.005 ± 0.014 $\chi^2/\text{NDF}: 28.9/30$

Out: -0.018 ± 0.014 $\chi^2/\text{NDF}: 41.7/35$

All: -0.012 ± 0.010 $\chi^2/\text{NDF}: 71.1/66$

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.876 ± 0.019 χ^2/NDF : 1937953.9/15

Left Out: 53.842 ± 0.011 χ^2/NDF : 1545902.7/16

Right Out: 55.887 ± 0.017 χ^2/NDF : 2591275.8/18

Left In: 55.333 ± 0.012 χ^2/NDF : 1115391.1/14

Left: 54.551 ± 0.008 χ^2/NDF : 2669357.2/31

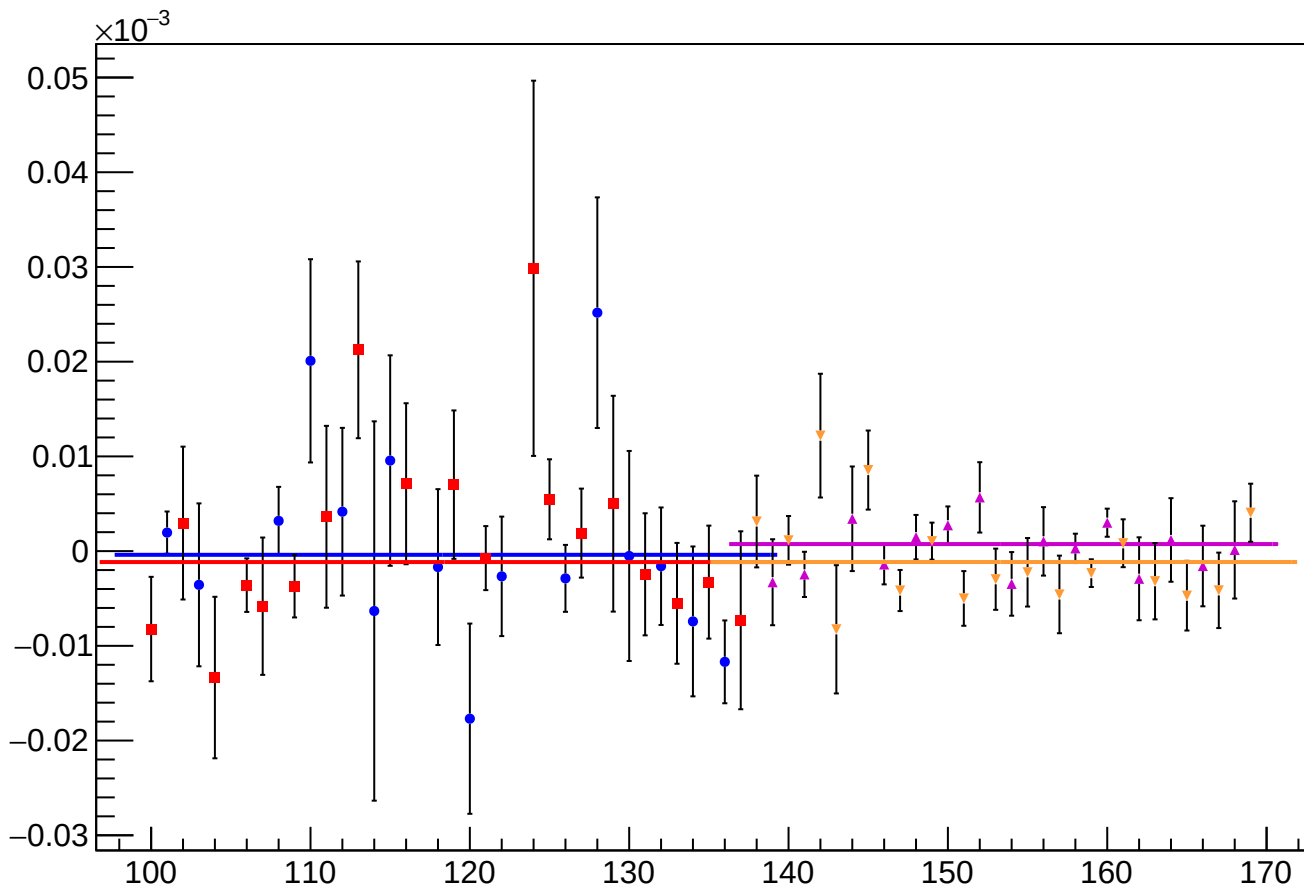
Right: 58.651 ± 0.013 χ^2/NDF : 4584001.9/34

In: 57.236 ± 0.010 χ^2/NDF : 3139446.9/30

Out: 54.461 ± 0.010 χ^2/NDF : 4146832.3/35

All: 55.769 ± 0.007 χ^2/NDF : 7325959.2/66

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 22.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 24.2/16

Right Out: -0.000+/-0.000 χ^2/NDF : 20.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 11.7/14

Left: -0.000+/-0.000 χ^2/NDF : 39.8/31

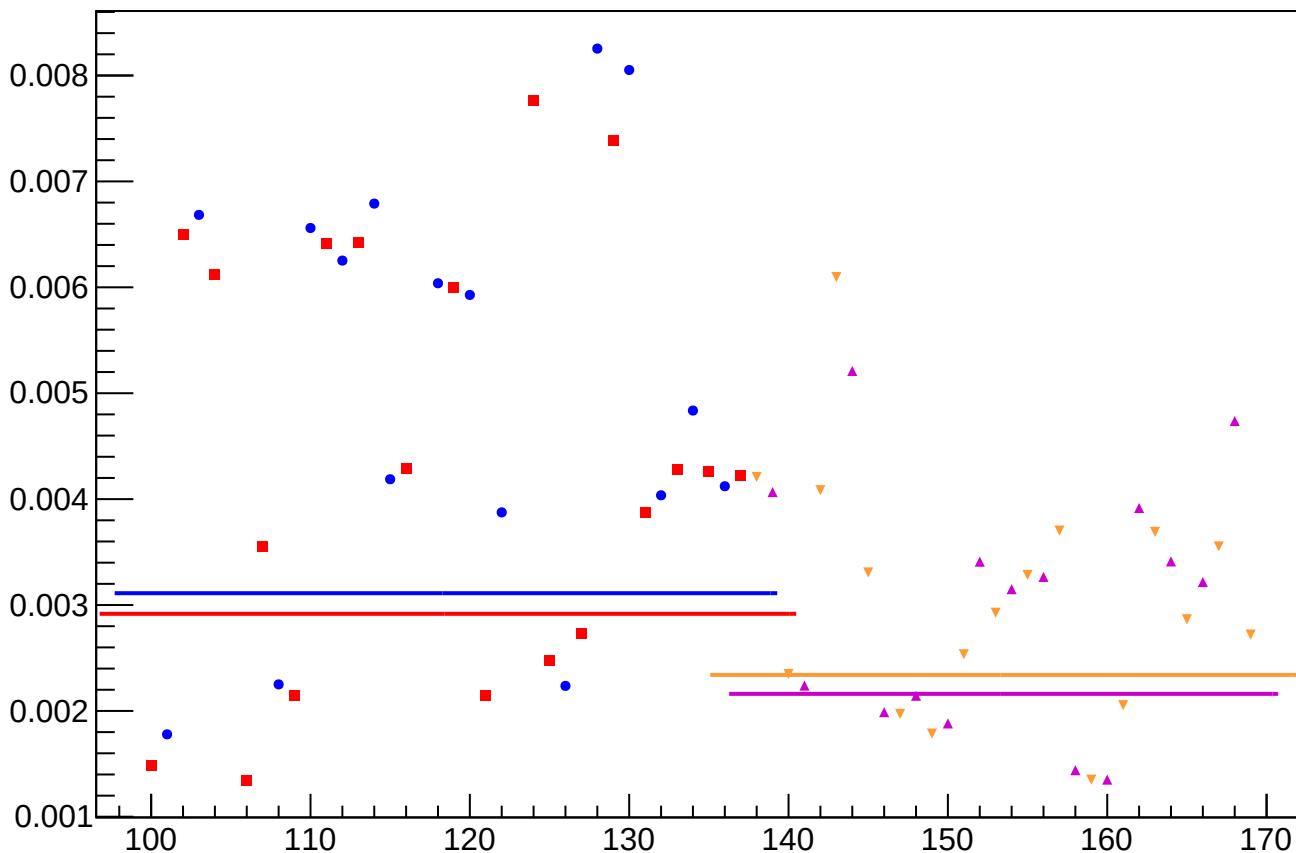
Right: -0.000+/-0.000 χ^2/NDF : 43.2/34

In: 0.000+/-0.000 χ^2/NDF : 34.9/30

Out: -0.000+/-0.000 χ^2/NDF : 44.7/35

All: -0.000+/-0.000 χ^2/NDF : 83.3/66

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 3283915.1/15

Left Out: 0.002+/-0.000

χ^2/NDF : 3237529.2/16

Right Out: 0.003+/-0.000

χ^2/NDF : 3295506.1/18

Left In: 0.002+/-0.000

χ^2/NDF : 3740113.9/14

Left: 0.002+/-0.000

χ^2/NDF : 7046191.8/31

Right: 0.003+/-0.000

χ^2/NDF : 6602078.2/34

In: 0.002+/-0.000

χ^2/NDF : 7837056.0/30

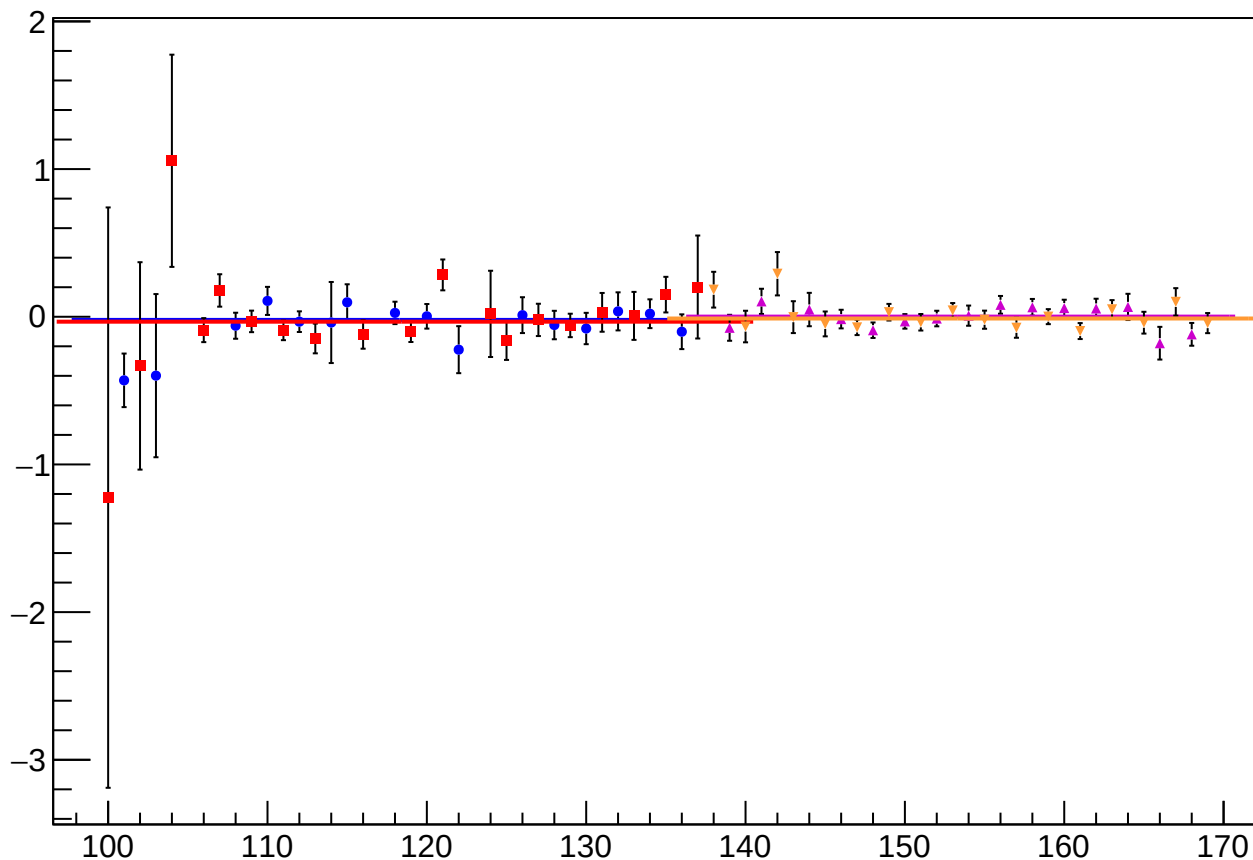
Out: 0.002+/-0.000

χ^2/NDF : 6856510.0/35

All: 0.002+/-0.000

χ^2/NDF : 14735294.4/66

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.027 χ^2/NDF : 12.0/15

Left Out: -0.012 ± 0.016 χ^2/NDF : 16.8/16

Right Out: -0.033 ± 0.025 χ^2/NDF : 24.4/18

Left In: 0.001 ± 0.017 χ^2/NDF : 16.4/14

Left: -0.006 ± 0.012 χ^2/NDF : 33.6/31

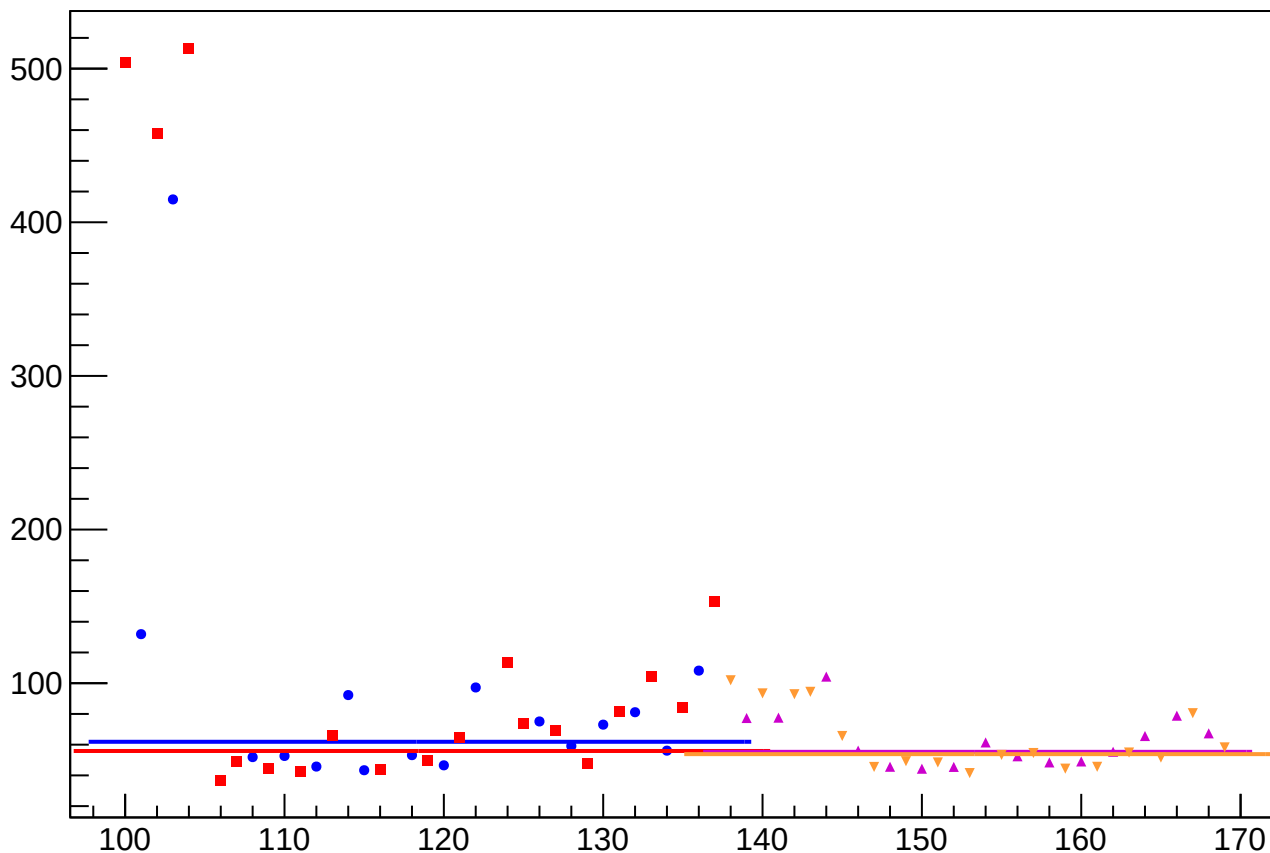
Right: -0.028 ± 0.018 χ^2/NDF : 36.5/34

In: -0.005 ± 0.014 χ^2/NDF : 28.9/30

Out: -0.018 ± 0.014 χ^2/NDF : 41.7/35

All: -0.012 ± 0.010 χ^2/NDF : 71.1/66

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.875+/-0.019 χ^2/NDF : 1937904.4/15

Left Out: 53.842+/-0.011 χ^2/NDF :1545950.1/16

Right Out: 55.886+/-0.017 χ^2/NDF : 2591233.7/18

Left In: 55.333+/-0.012 χ^2/NDF :1115384.3/14

Left: 54.551+/-0.008 χ^2/NDF : 2669400.0/31

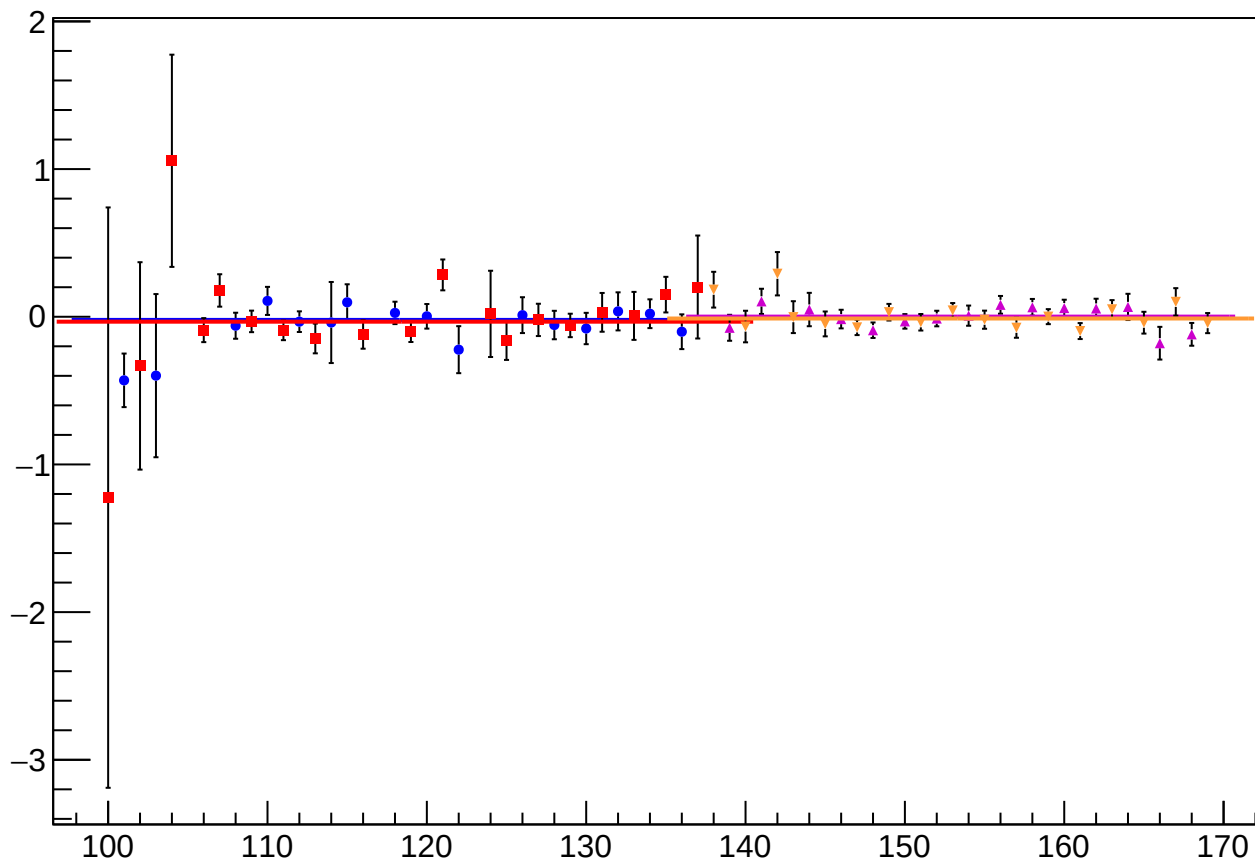
Right: 58.650+/-0.013 χ^2/NDF : 4583914.2/34

In: 57.236+/-0.010 χ^2/NDF :3139370.1/30

Out: 54.461+/-0.010 χ^2/NDF :4146830.8/35

All: 55.769+/-0.007 χ^2/NDF : 7325887.4/66

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.027 $\chi^2/\text{NDF}: 12.0/15$

Left Out: -0.012 ± 0.016 $\chi^2/\text{NDF}: 16.8/16$

Right Out: -0.033 ± 0.025 $\chi^2/\text{NDF}: 24.4/18$

Left In: 0.001 ± 0.017 $\chi^2/\text{NDF}: 16.4/14$

Left: -0.006 ± 0.012 $\chi^2/\text{NDF}: 33.6/31$

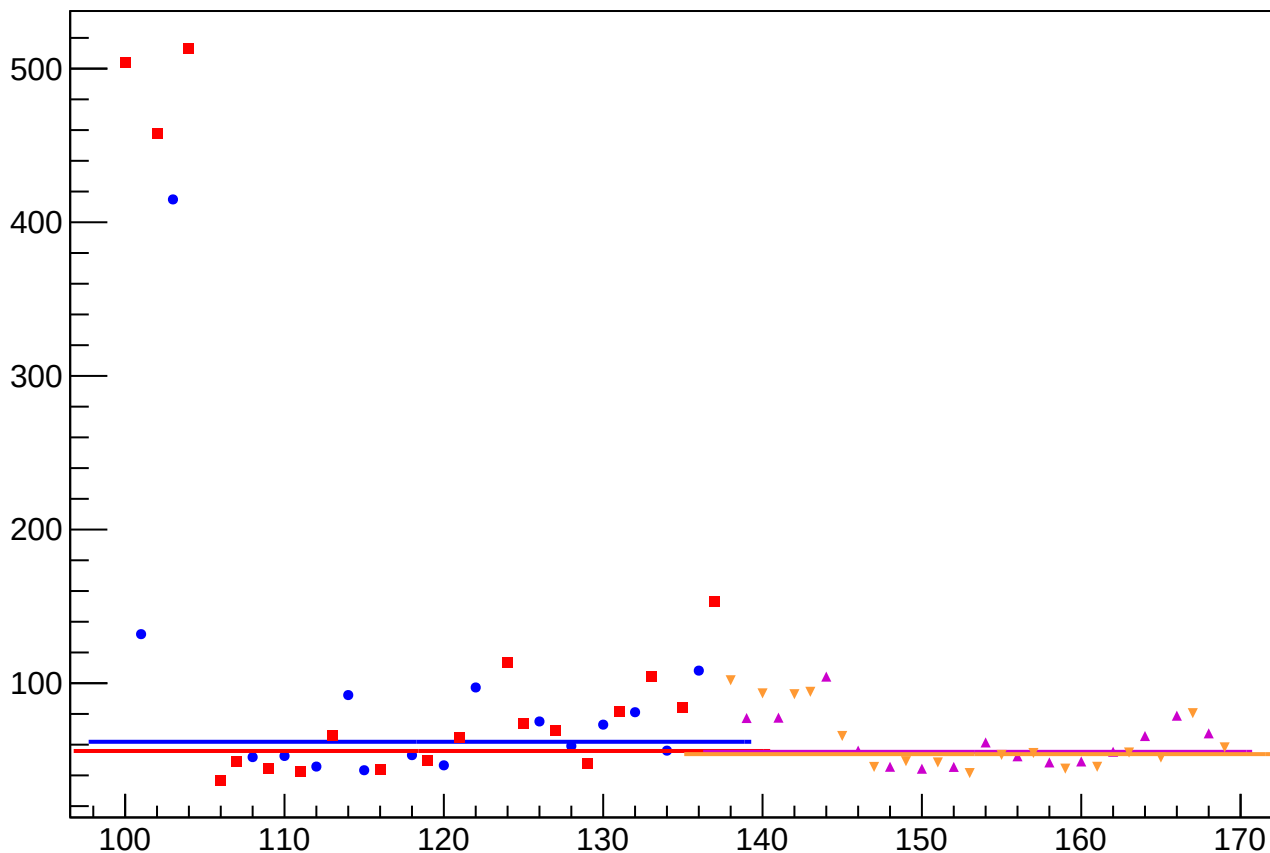
Right: -0.028 ± 0.018 $\chi^2/\text{NDF}: 36.5/34$

In: -0.005 ± 0.014 $\chi^2/\text{NDF}: 28.9/30$

Out: -0.018 ± 0.014 $\chi^2/\text{NDF}: 41.7/35$

All: -0.012 ± 0.010 $\chi^2/\text{NDF}: 71.1/66$

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 61.875+/-0.019 χ^2/NDF : 1937904.4/15

Left Out: 53.842+/-0.011 χ^2/NDF : 1545950.1/16

Right Out: 55.886+/-0.017 χ^2/NDF : 2591233.7/18

Left In: 55.333+/-0.012 χ^2/NDF : 1115384.3/14

Left: 54.551+/-0.008 χ^2/NDF : 2669400.0/31

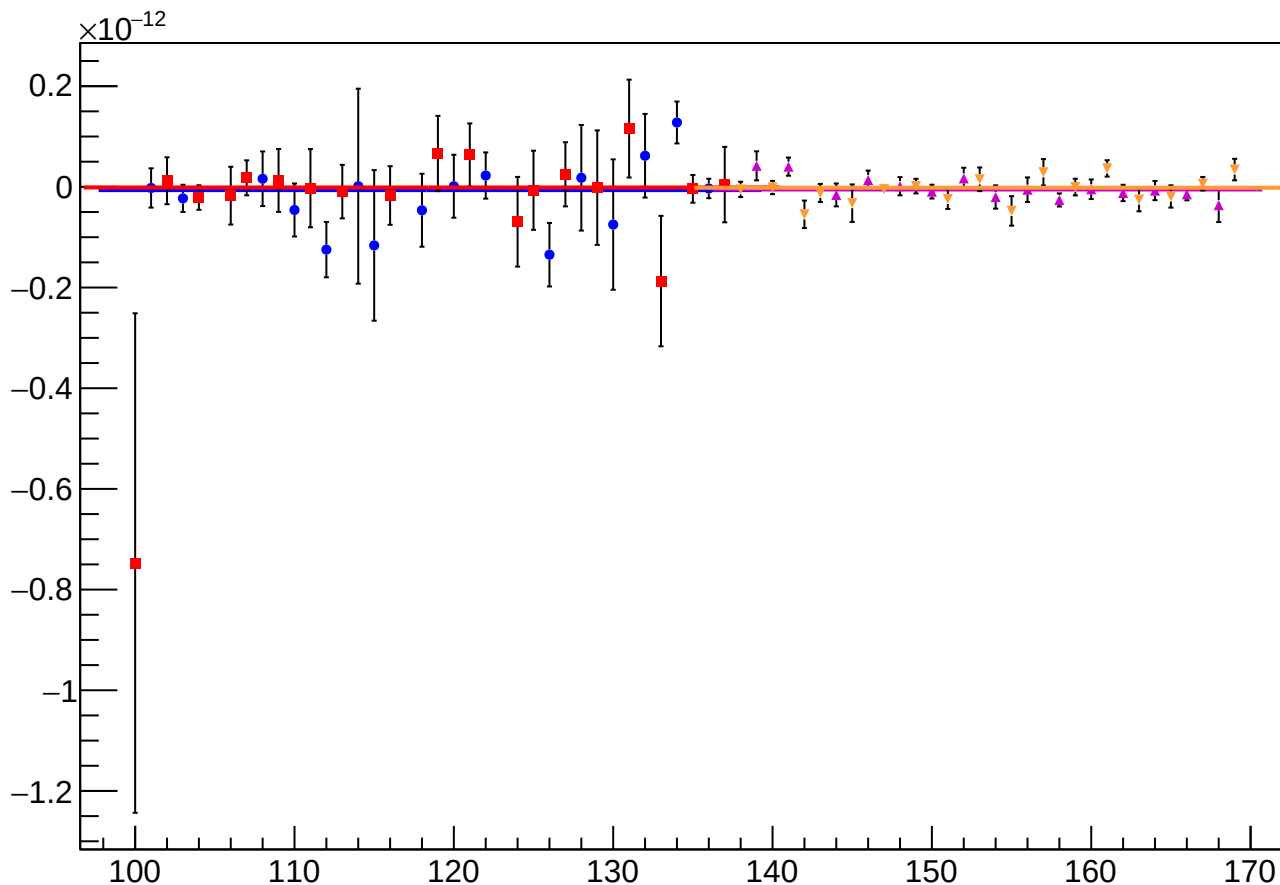
Right: 58.650+/-0.013 χ^2/NDF : 4583914.2/34

In: 57.236+/-0.010 χ^2/NDF : 3139370.1/30

Out: 54.461+/-0.010 χ^2/NDF : 4146830.8/35

All: 55.769+/-0.007 χ^2/NDF : 7325887.4/66

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 22.6/15

Left Out: -0.000+/-0.000 χ^2 /NDF:21.0/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 9.7/18

Left In: -0.000+/-0.000 χ^2 /NDF:16.2/14

Left: -0.000+/-0.000 χ^2 /NDF: 37.5/31

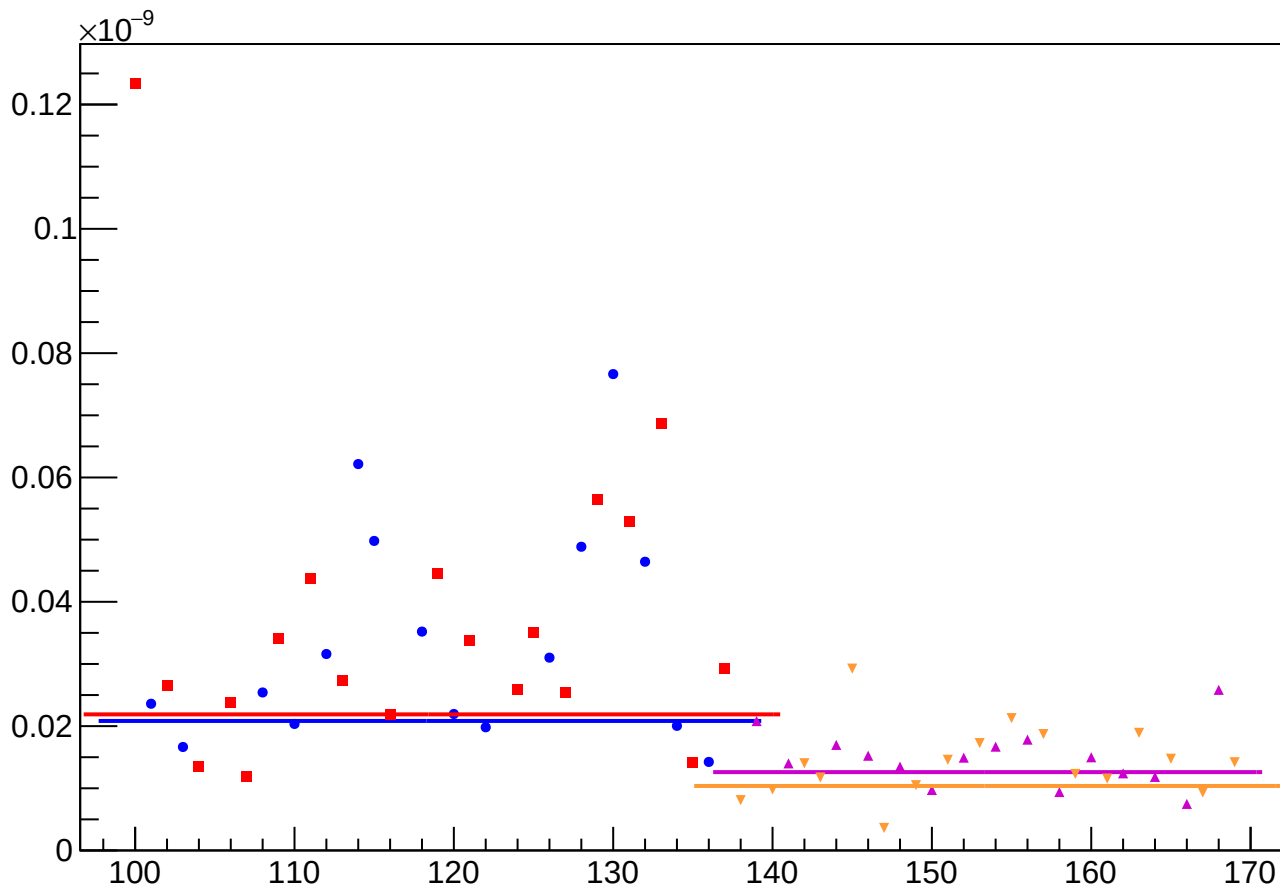
Right: -0.000+/-0.000 χ^2 /NDF: 32.4/34

In: -0.000+/-0.000 χ^2 /NDF:38.8/30

Out: -0.000+/-0.000 χ^2 /NDF:30.7/35

All: -0.000+/-0.000 χ^2 /NDF: 69.9/66

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1384606.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 3123484.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1906656.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 1391630.0/14

Left: 0.000+/-0.000 χ^2/NDF : 4774731.0/31

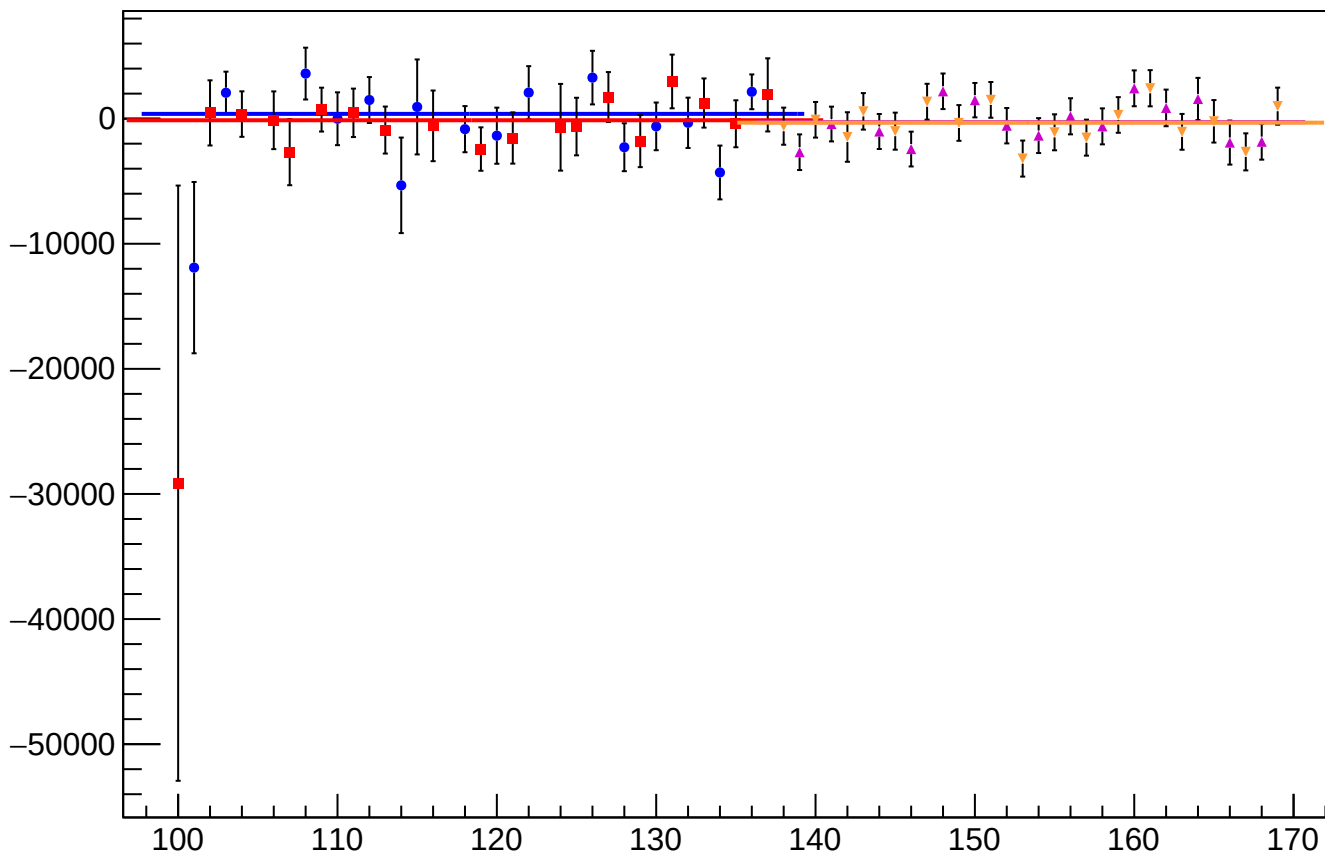
Right: 0.000+/-0.000 χ^2/NDF : 3299556.5/34

In: 0.000+/-0.000 χ^2/NDF : 3685611.4/30

Out: 0.000+/-0.000 χ^2/NDF : 6707351.5/35

All: 0.000+/-0.000 χ^2/NDF : 10688136.1/66

reg_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 381.403+/-517.789 χ^2/NDF : 21.5/15

Left Out: -320.480+/-358.933 χ^2/NDF :16.3/16

Right Out: -127.929+/-500.988 χ^2/NDF : 10.0/18

Left In: -283.373+/-373.913 χ^2/NDF :18.4/14

Left: -302.684+/-258.938 χ^2/NDF : 34.7/31

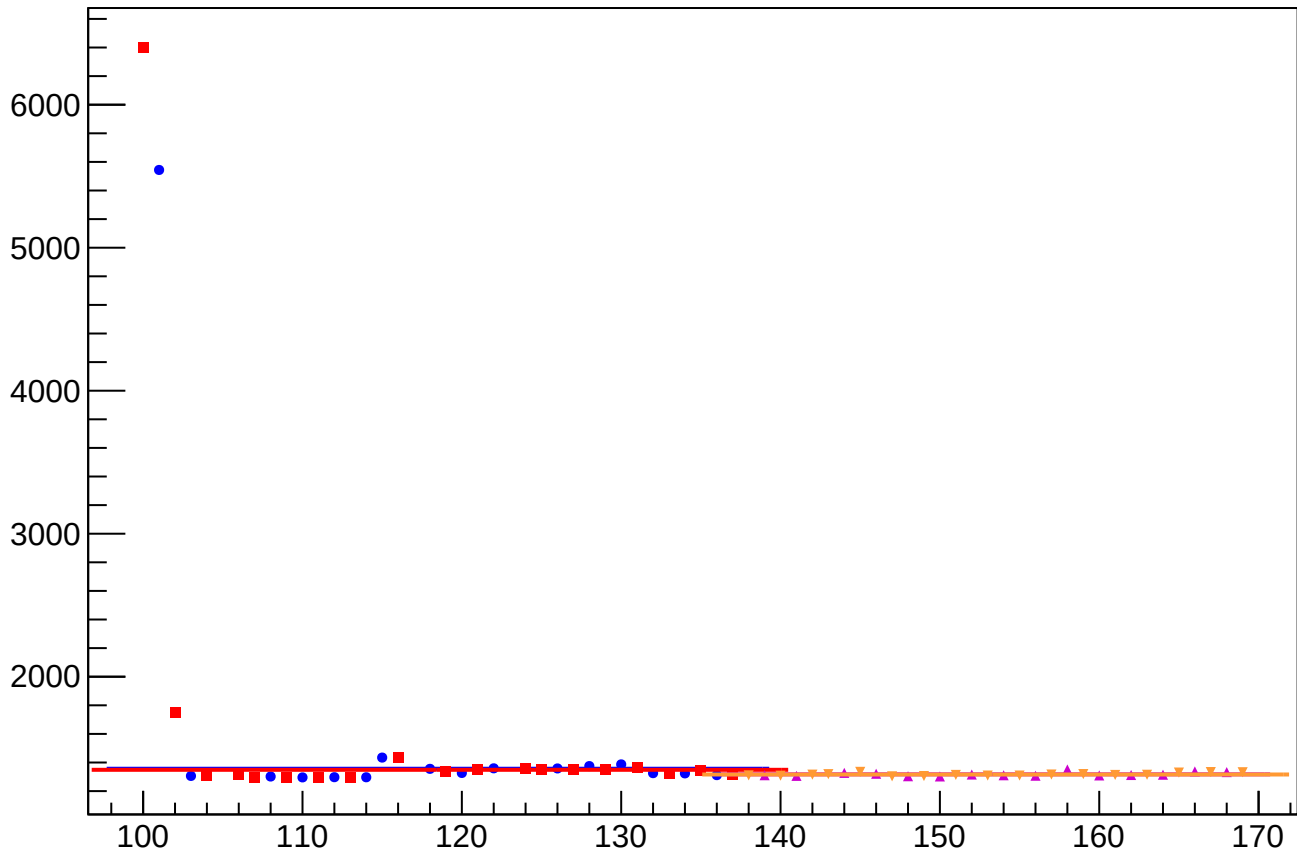
Right: 118.340+/-360.045 χ^2/NDF : 32.0/34

In: -55.525+/-303.136 χ^2/NDF :41.0/30

Out: -255.168+/-291.777 χ^2/NDF :26.4/35

All: -159.157+/-210.218 χ^2/NDF : 67.6/66

reg_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1356.397+/-0.366 χ^2/NDF : 760266.3/15

Left Out: 1316.233+/-0.254 χ^2/NDF :1443.7/16

Right Out: 1348.975+/-0.354 χ^2/NDF : 147265.6/18

Left In: 1317.317+/-0.264 χ^2/NDF :2518.3/14

Left: 1316.752+/-0.183 χ^2/NDF : 3970.8/31

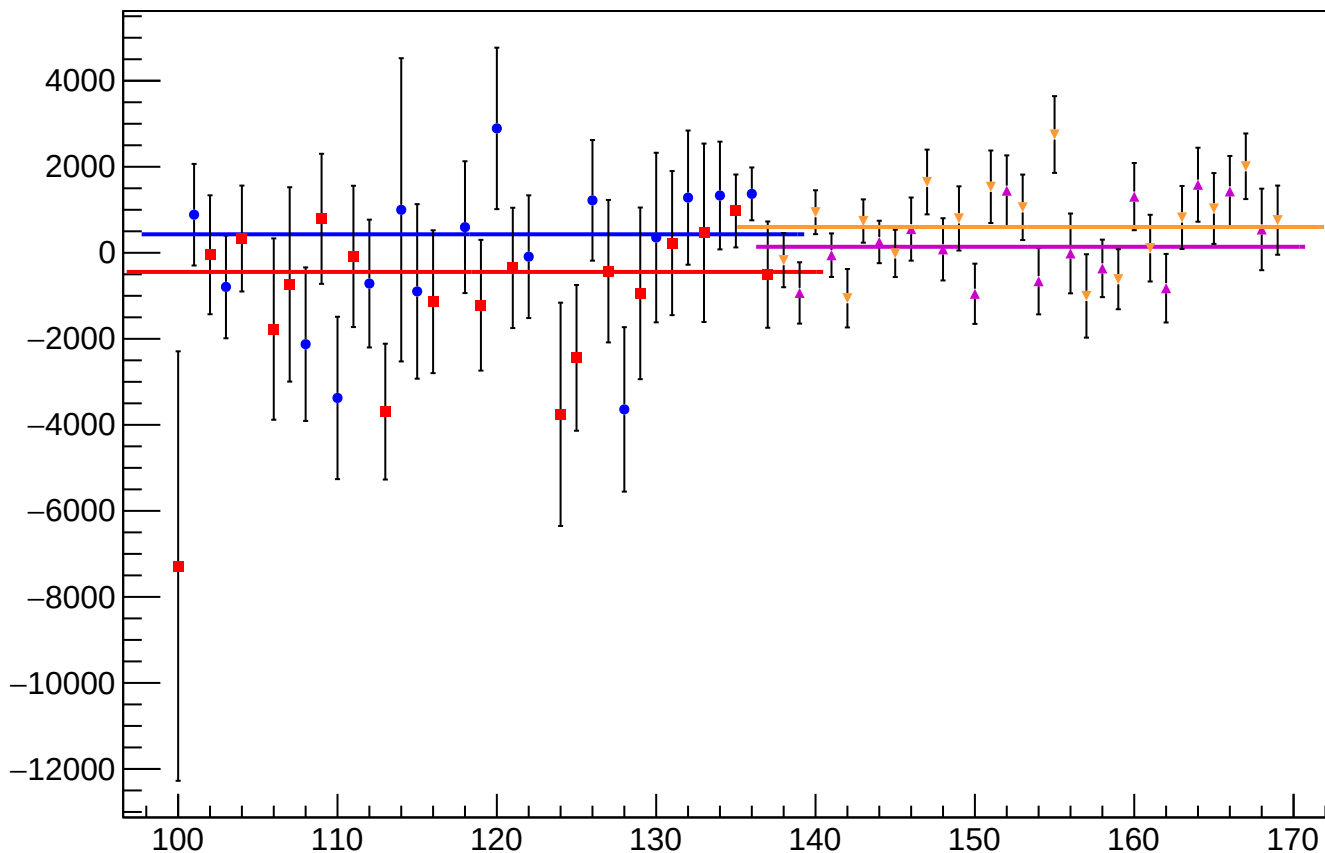
Right: 1352.564+/-0.255 χ^2/NDF : 907744.1/34

In: 1330.711+/-0.214 χ^2/NDF :770272.8/30

Out: 1327.338+/-0.206 χ^2/NDF :154354.3/35

All: 1328.960+/-0.149 χ^2/NDF : 924755.6/66

asym_usr_atr1_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 430.363+/-338.459 χ^2/NDF : 18.2/15

Left Out: 600.795+/-168.747 χ^2/NDF : 28.6/16

Right Out: -444.555+/-355.594 χ^2/NDF : 14.4/18

Left In: 139.682+/-184.104 χ^2/NDF : 18.5/14

Left: 390.269+/-124.397 χ^2/NDF : 50.6/31

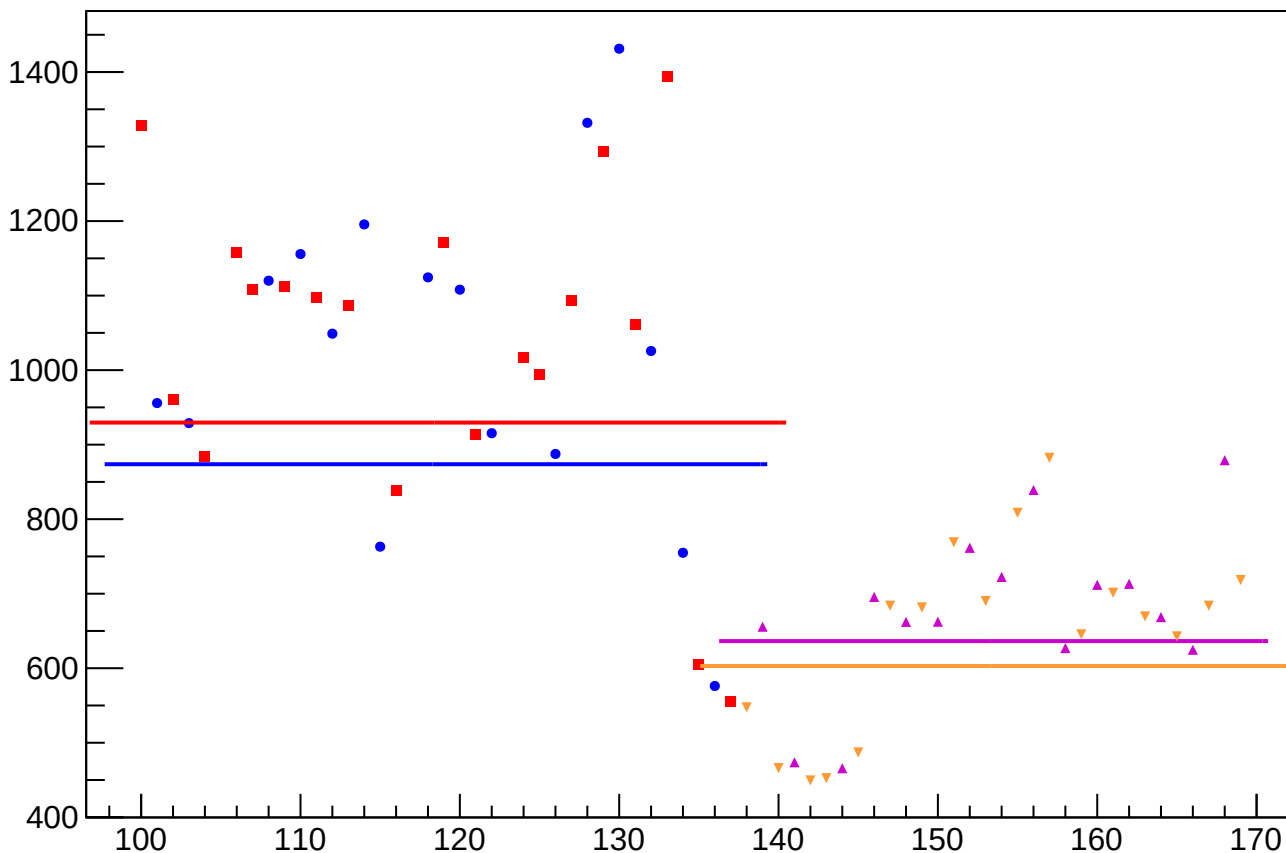
Right: 14.491+/-245.161 χ^2/NDF : 35.8/34

In: 206.051+/-161.726 χ^2/NDF : 37.3/30

Out: 408.655+/-152.452 χ^2/NDF : 50.0/35

All: 313.328+/-110.934 χ^2/NDF : 88.2/66

asym_usr_atr1_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 873.733+/-0.239 χ^2/NDF : 1014860.8/15

Left Out: 602.941+/-0.119 χ^2/NDF : 1075528.1/16

Right Out: 929.637+/-0.251 χ^2/NDF : 859936.0/18

Left In: 636.413+/-0.130 χ^2/NDF : 804675.8/14

Left: 618.223+/-0.088 χ^2/NDF : 1916131.7/31

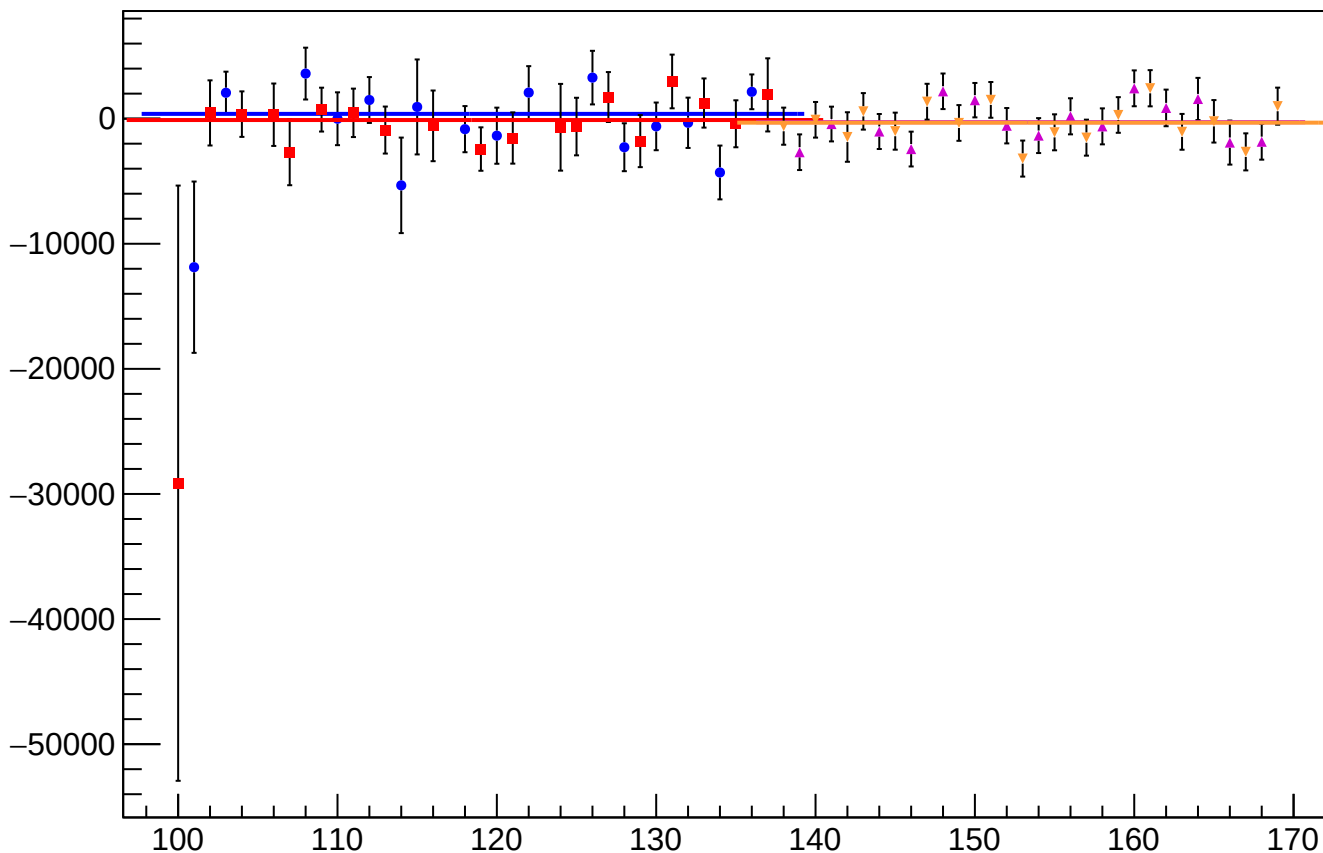
Right: 900.305+/-0.173 χ^2/NDF : 1900732.3/34

In: 690.598+/-0.114 χ^2/NDF : 2578324.0/30

Out: 662.989+/-0.108 χ^2/NDF : 3313314.4/35

All: 675.979+/-0.078 χ^2/NDF : 5922501.9/66

cor_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 381.712 ± 517.789 $\chi^2/\text{NDF}: 21.5/15$

Left Out: -320.519 ± 358.933 $\chi^2/\text{NDF}: 16.3/16$

Right Out: -110.280 ± 502.698 $\chi^2/\text{NDF}: 10.0/18$

Left In: -283.403 ± 373.913 $\chi^2/\text{NDF}: 18.4/14$

Left: -302.719 ± 258.938 $\chi^2/\text{NDF}: 34.7/31$

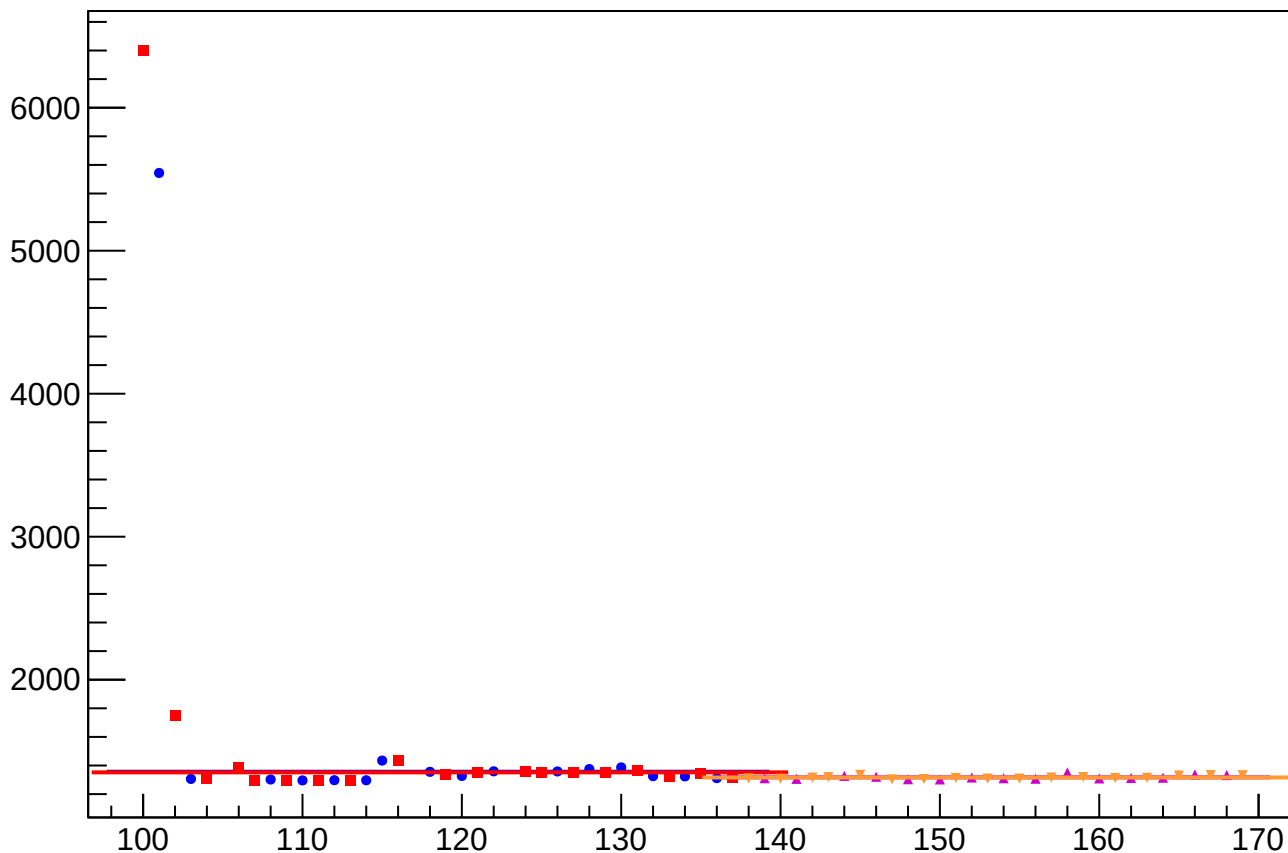
Right: 128.442 ± 360.678 $\chi^2/\text{NDF}: 32.0/34$

In: -55.439 ± 303.136 $\chi^2/\text{NDF}: 41.0/30$

Out: -249.529 ± 292.113 $\chi^2/\text{NDF}: 26.4/35$

All: -156.077 ± 210.344 $\chi^2/\text{NDF}: 67.6/66$

cor_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1356.397 $\pm$ 0.366 χ^2 /NDF: 760265.4/15

Left Out: 1316.233 $\pm$ 0.254 χ^2 /NDF: 1443.7/16

Right Out: 1352.083 $\pm$ 0.355 χ^2 /NDF: 147326.5/18

Left In: 1317.317 $\pm$ 0.264 χ^2 /NDF: 2518.3/14

Left: 1316.753 $\pm$ 0.183 χ^2 /NDF: 3970.8/31

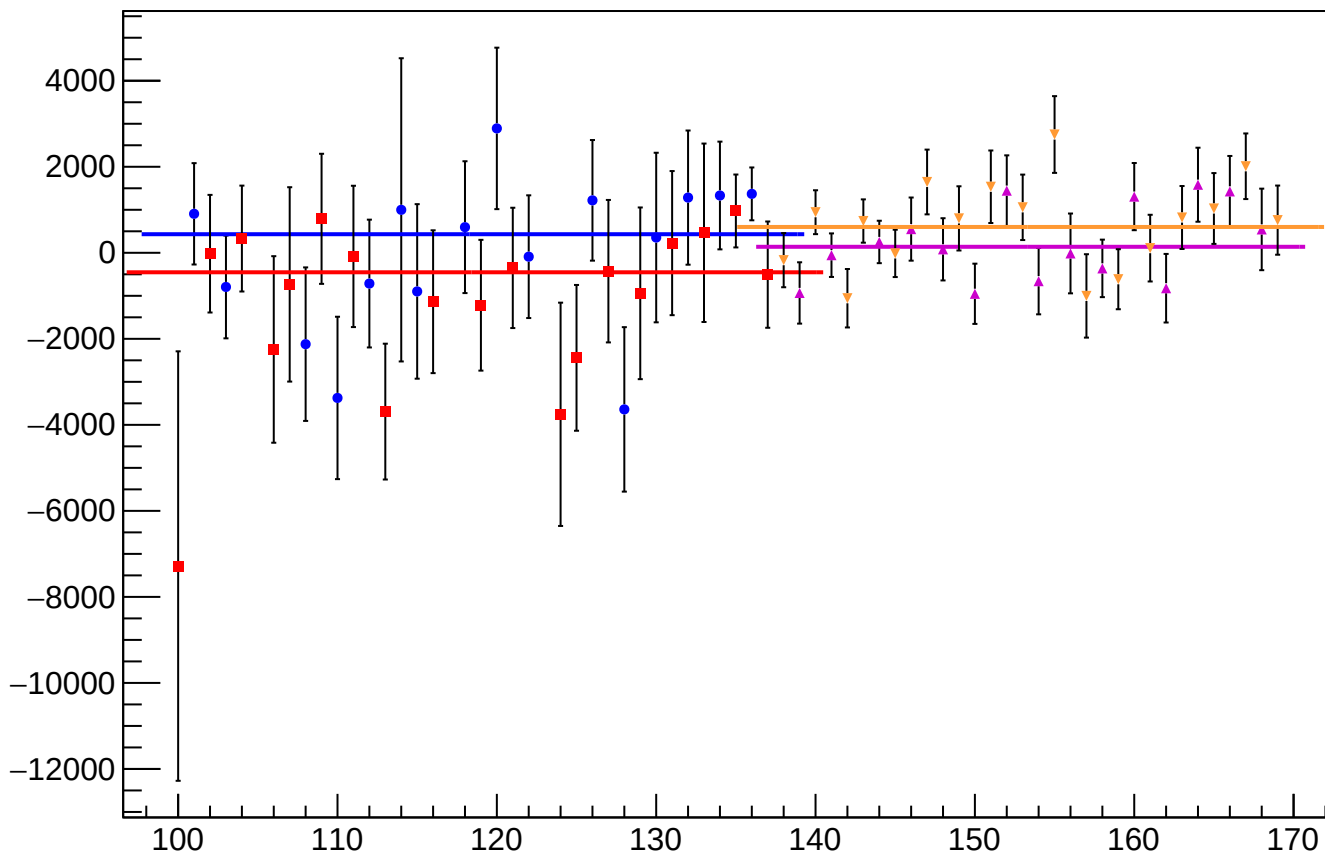
Right: 1354.176 $\pm$ 0.255 χ^2 /NDF: 907663.3/34

In: 1330.711 $\pm$ 0.214 χ^2 /NDF: 770271.8/30

Out: 1328.338 $\pm$ 0.207 χ^2 /NDF: 155507.6/35

All: 1329.481 $\pm$ 0.149 χ^2 /NDF: 925843.0/66

asym_usr_atr1_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 432.135 $\pm$ 338.403 χ^2 /NDF: 18.2/15

Left Out: 600.752 $\pm$ 168.747 χ^2 /NDF: 28.6/16

Right Out: -453.039 $\pm$ 355.599 χ^2 /NDF: 14.7/18

Left In: 139.702 $\pm$ 184.102 χ^2 /NDF: 18.5/14

Left: 390.253 $\pm$ 124.397 χ^2 /NDF: 50.6/31

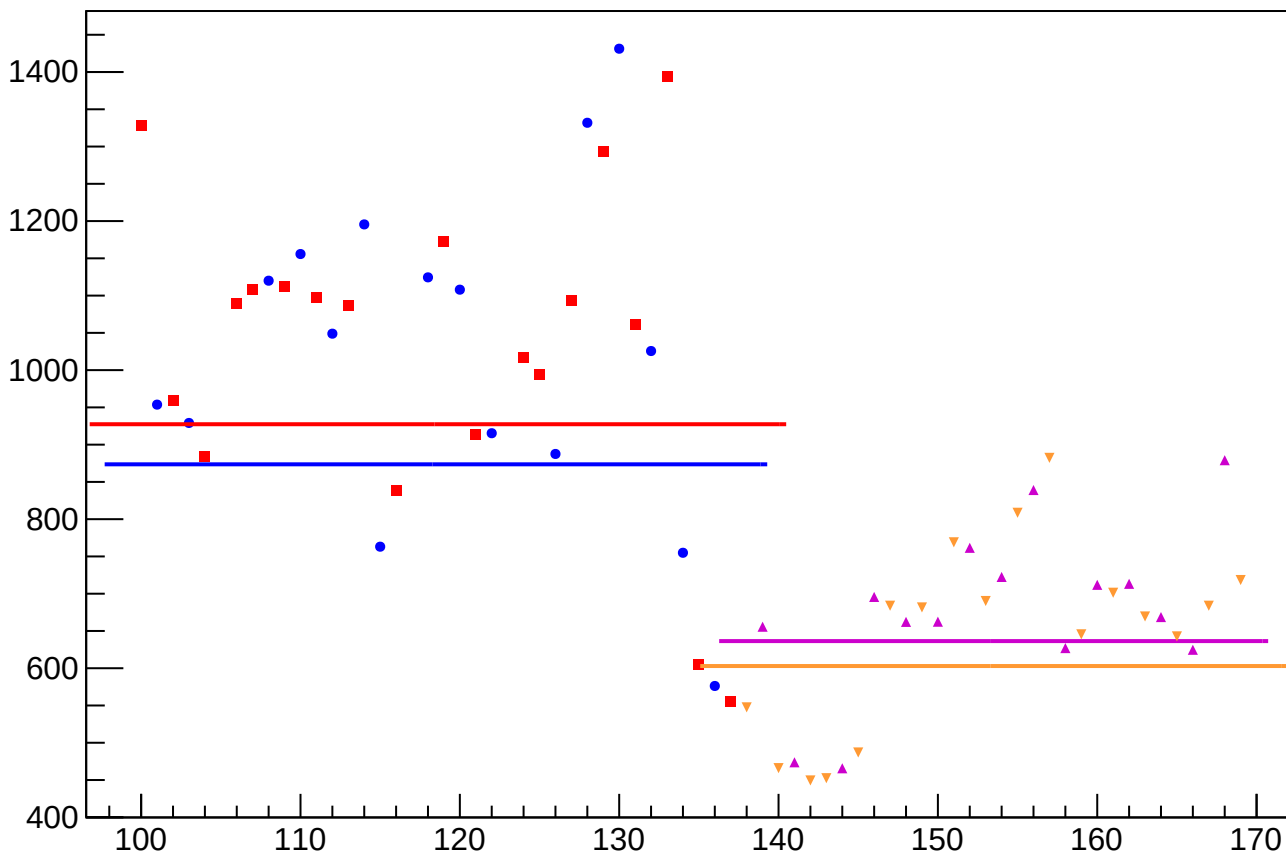
Right: 11.468 $\pm$ 245.141 χ^2 /NDF: 36.2/34

In: 206.487 $\pm$ 161.719 χ^2 /NDF: 37.4/30

Out: 407.065 $\pm$ 152.452 χ^2 /NDF: 50.5/35

All: 312.687 $\pm$ 110.931 χ^2 /NDF: 88.7/66

asym_usr_atr1_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 873.606+/-0.239 χ^2/NDF : 1014405.7/15

Left Out: 602.942+/-0.119 χ^2/NDF : 1075458.2/16

Right Out: 927.407+/-0.251 χ^2/NDF : 847382.0/18

Left In: 636.407+/-0.130 χ^2/NDF : 804741.8/14

Left: 618.221+/-0.088 χ^2/NDF : 1916113.7/31

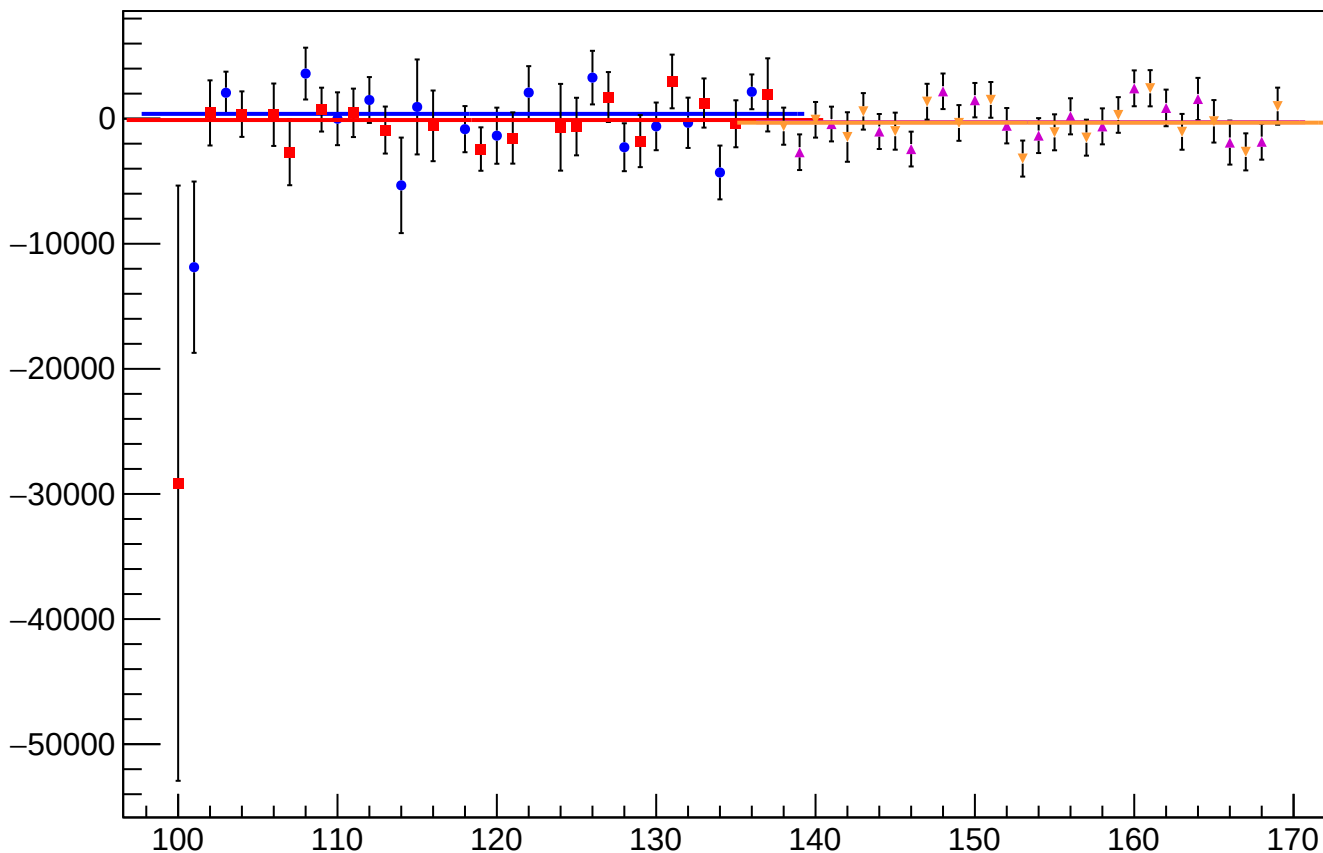
Right: 899.174+/-0.173 χ^2/NDF : 1885812.2/34

In: 690.578+/-0.114 χ^2/NDF : 2577362.6/30

Out: 662.578+/-0.108 χ^2/NDF : 3281910.9/35

All: 675.753+/-0.078 χ^2/NDF : 5891017.5/66

eigen_cor_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 381.712 ± 517.789 $\chi^2/\text{NDF}: 21.5/15$

Left Out: -320.519 ± 358.933 $\chi^2/\text{NDF}: 16.3/16$

Right Out: -110.280 ± 502.698 $\chi^2/\text{NDF}: 10.0/18$

Left In: -283.403 ± 373.913 $\chi^2/\text{NDF}: 18.4/14$

Left: -302.719 ± 258.938 $\chi^2/\text{NDF}: 34.7/31$

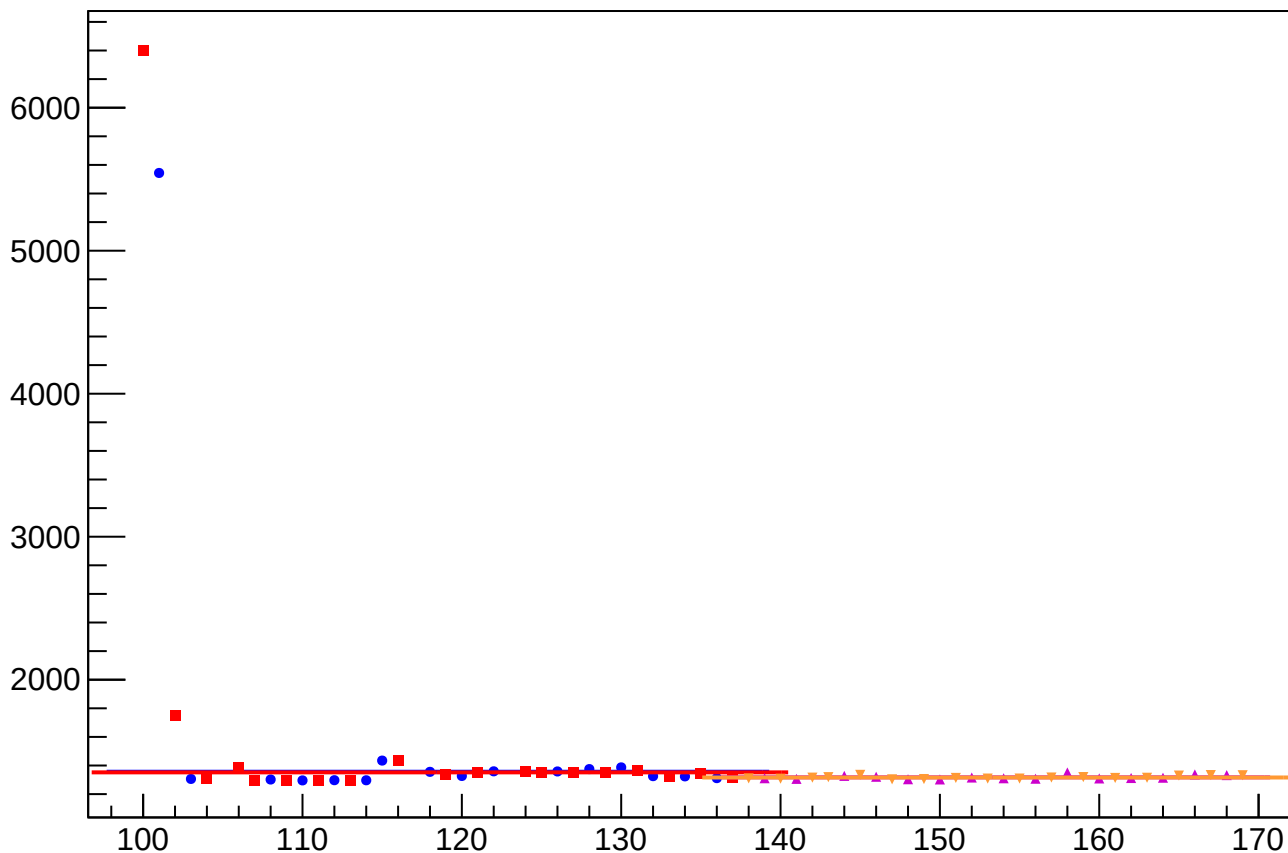
Right: 128.442 ± 360.678 $\chi^2/\text{NDF}: 32.0/34$

In: -55.439 ± 303.136 $\chi^2/\text{NDF}: 41.0/30$

Out: -249.529 ± 292.113 $\chi^2/\text{NDF}: 26.4/35$

All: -156.077 ± 210.344 $\chi^2/\text{NDF}: 67.6/66$

eigen_cor_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1356.397+/-0.366 χ^2/NDF : 760265.4/15

Left Out: 1316.233+/-0.254 χ^2/NDF :1443.7/16

Right Out: 1352.083+/-0.355 χ^2/NDF : 147326.5/18

Left In: 1317.317+/-0.264 χ^2/NDF :2518.3/14

Left: 1316.753+/-0.183 χ^2/NDF : 3970.8/31

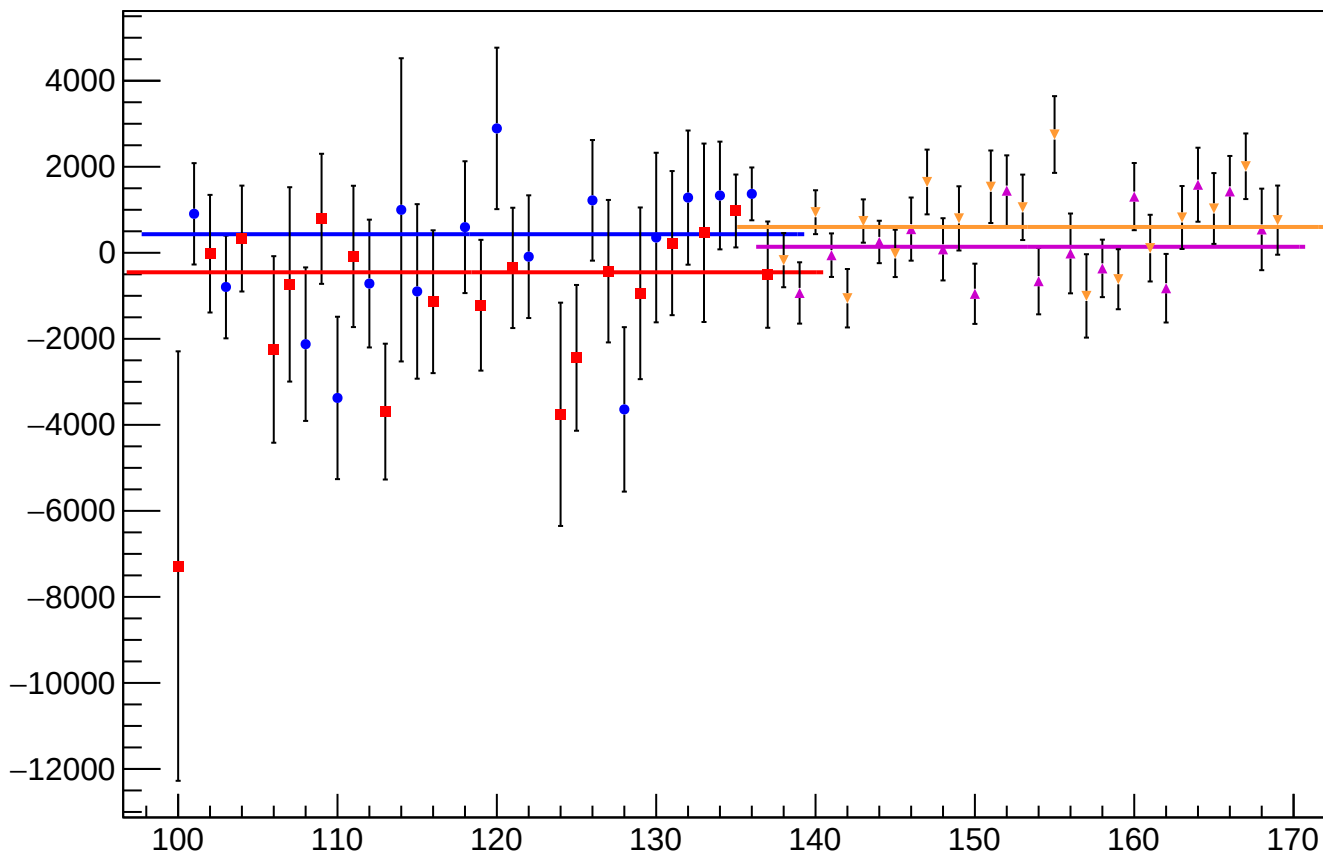
Right: 1354.176+/-0.255 χ^2/NDF : 907663.3/34

In: 1330.711+/-0.214 χ^2/NDF :770271.8/30

Out: 1328.338+/-0.207 χ^2/NDF :155507.6/35

All: 1329.481+/-0.149 χ^2/NDF : 925843.0/66

asym_usr_atr1_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 432.135 $\pm$ 338.403 χ^2 /NDF: 18.2/15

Left Out: 600.752 $\pm$ 168.747 χ^2 /NDF:28.6/16

Right Out: -453.039 $\pm$ 355.599 χ^2 /NDF: 14.7/18

Left In: 139.702 $\pm$ 184.102 χ^2 /NDF:18.5/14

Left: 390.253 $\pm$ 124.397 χ^2 /NDF: 50.6/31

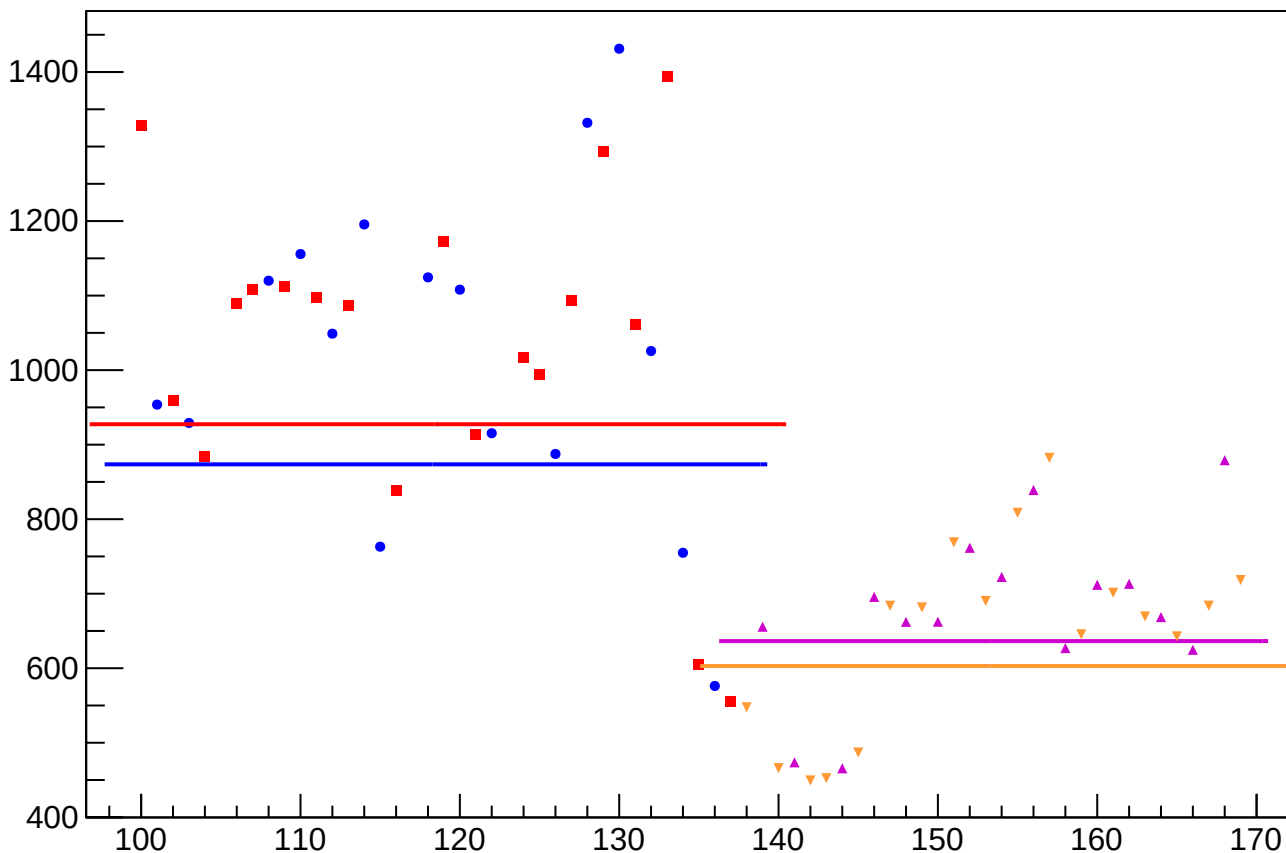
Right: 11.468 $\pm$ 245.141 χ^2 /NDF: 36.2/34

In: 206.487 $\pm$ 161.719 χ^2 /NDF:37.4/30

Out: 407.065 $\pm$ 152.452 χ^2 /NDF:50.5/35

All: 312.687 $\pm$ 110.931 χ^2 /NDF: 88.7/66

asym_usr_atr1_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 873.606+/-0.239 χ^2/NDF : 1014405.7/15

Left Out: 602.942+/-0.119 χ^2/NDF : 1075458.2/16

Right Out: 927.407+/-0.251 χ^2/NDF : 847382.0/18

Left In: 636.407+/-0.130 χ^2/NDF : 804741.8/14

Left: 618.221+/-0.088 χ^2/NDF : 1916113.7/31

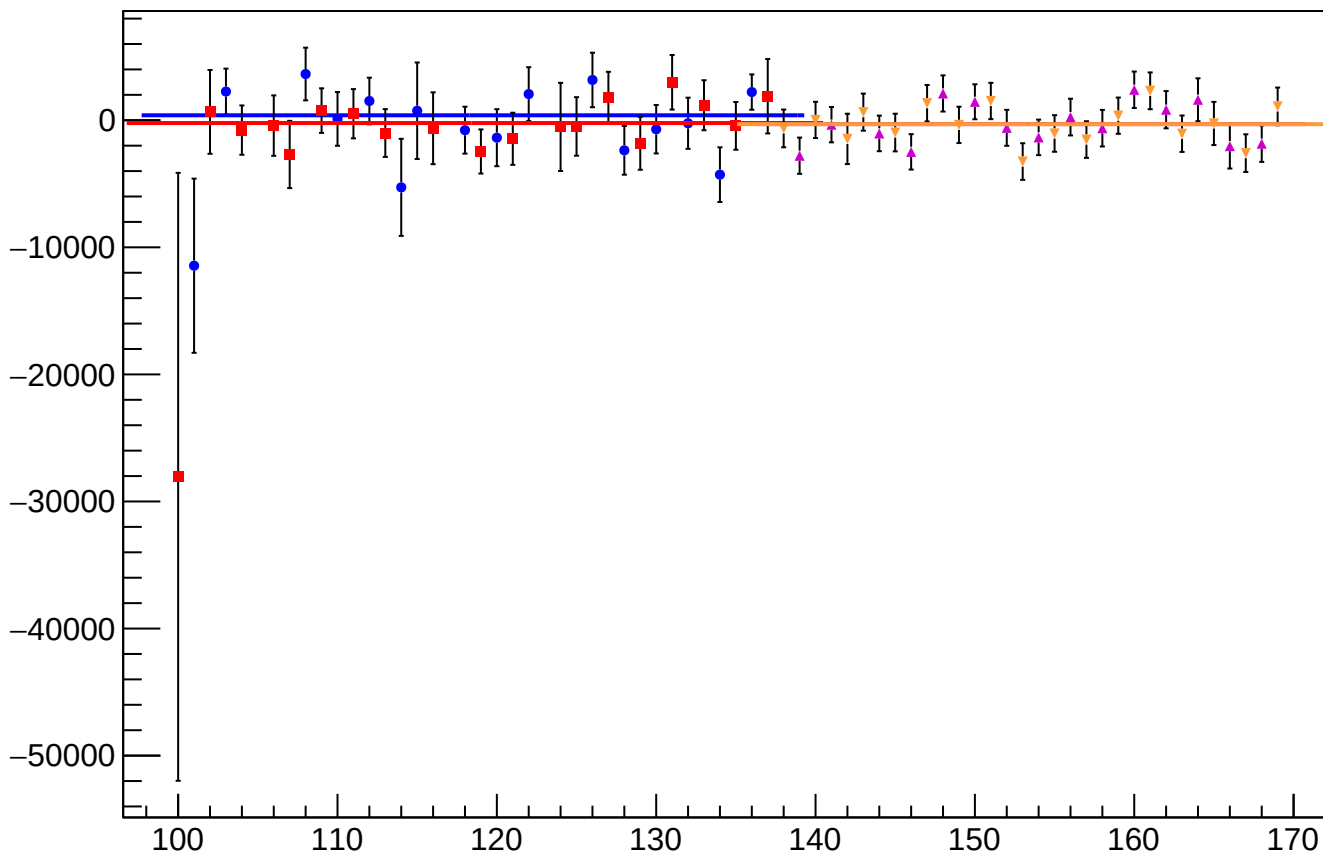
Right: 899.174+/-0.173 χ^2/NDF : 1885812.2/34

In: 690.578+/-0.114 χ^2/NDF : 2577362.6/30

Out: 662.578+/-0.108 χ^2/NDF : 3281910.9/35

All: 675.753+/-0.078 χ^2/NDF : 5891017.5/66

dit_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 389.949 ± 521.159 $\chi^2/\text{NDF}: 21.4/15$

Left Out: -307.362 ± 359.216 $\chi^2/\text{NDF}: 16.2/16$

Right Out: -218.184 ± 507.927 $\chi^2/\text{NDF}: 10.0/18$

Left In: -301.811 ± 374.198 $\chi^2/\text{NDF}: 18.6/14$

Left: -304.699 ± 259.139 $\chi^2/\text{NDF}: 34.8/31$

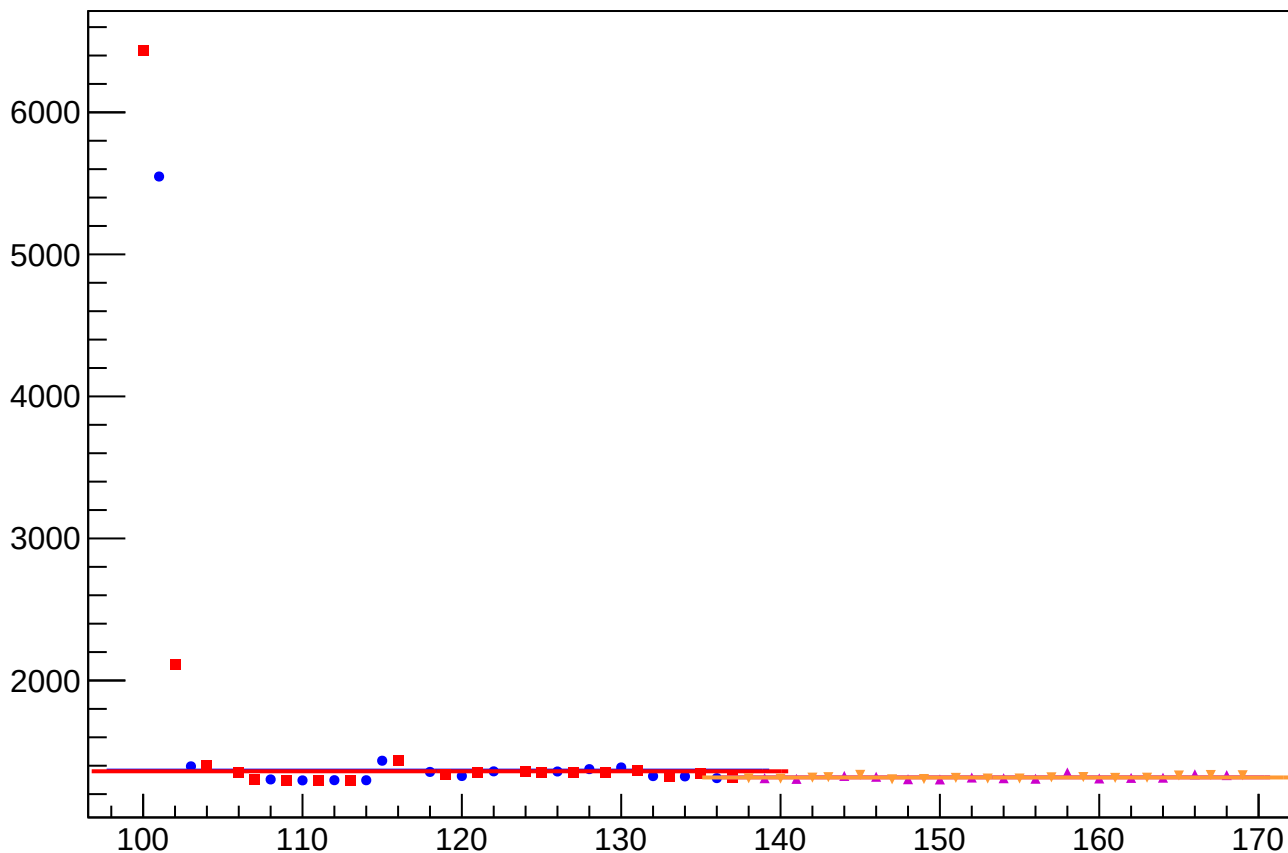
Right: 78.065 ± 363.747 $\chi^2/\text{NDF}: 32.1/34$

In: -66.495 ± 303.961 $\chi^2/\text{NDF}: 41.2/30$

Out: -277.629 ± 293.283 $\chi^2/\text{NDF}: 26.2/35$

All: -175.836 ± 211.056 $\chi^2/\text{NDF}: 67.6/66$

dit_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1365.302 $\pm$ 0.369 χ^2 /NDF: 758944.7/15

Left Out: 1317.268 $\pm$ 0.254 χ^2 /NDF:1451.1/16

Right Out: 1360.771 $\pm$ 0.359 χ^2 /NDF: 205315.3/18

Left In: 1318.319 $\pm$ 0.265 χ^2 /NDF:2547.1/14

Left: 1317.772 $\pm$ 0.183 χ^2 /NDF: 4006.4/31

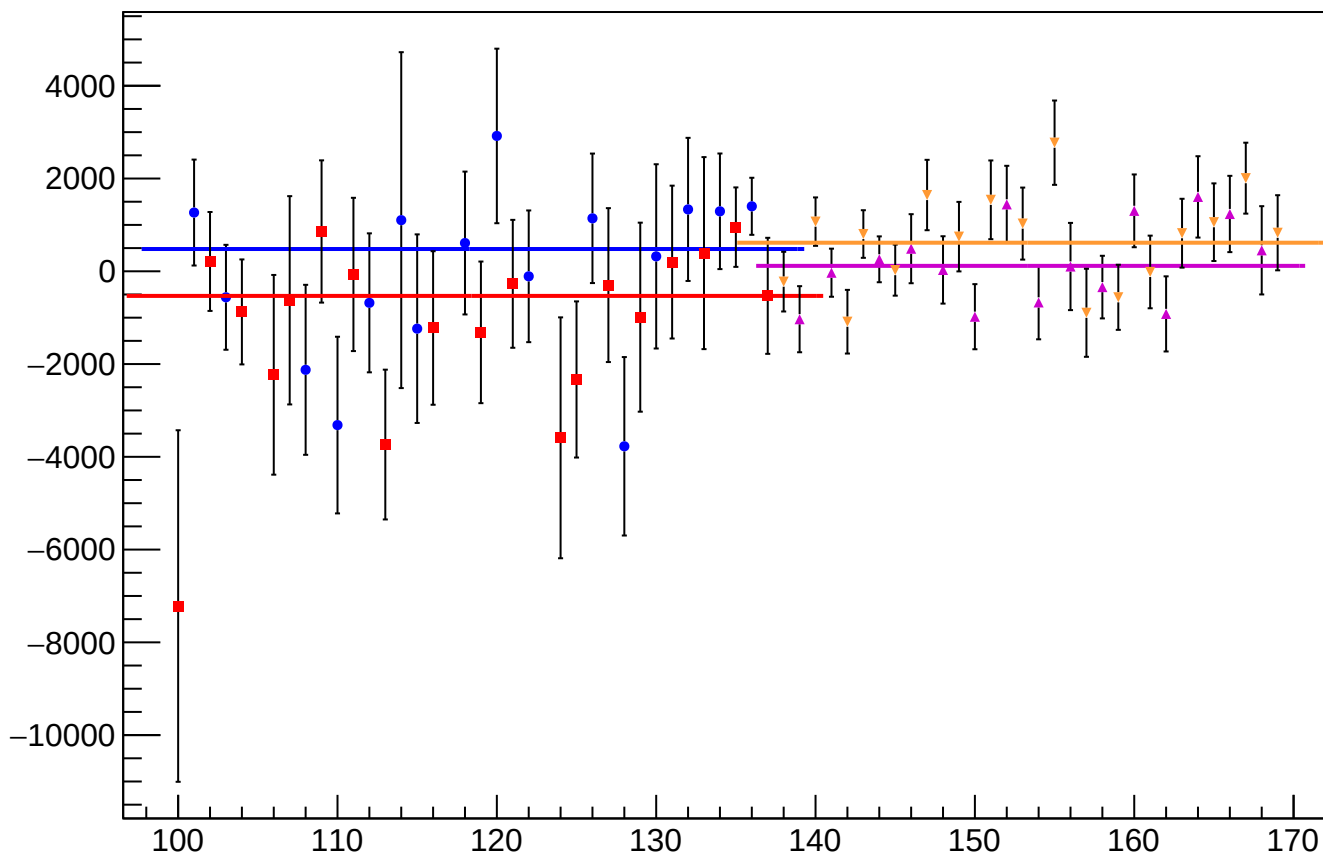
Right: 1362.978 $\pm$ 0.257 χ^2 /NDF: 964337.6/34

In: 1334.301 $\pm$ 0.215 χ^2 /NDF:772216.8/30

Out: 1331.772 $\pm$ 0.207 χ^2 /NDF:216545.8/35

All: 1332.992 $\pm$ 0.149 χ^2 /NDF: 988834.3/66

asym_usr_atr1_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 480.403 ± 336.520 χ^2/NDF : 18.6/15

Left Out: 616.180 ± 170.683 χ^2/NDF : 28.6/16

Right Out: -530.532 ± 346.105 χ^2/NDF : 15.6/18

Left In: 117.089 ± 186.032 χ^2/NDF : 18.2/14

Left: 388.070 ± 125.768 χ^2/NDF : 50.7/31

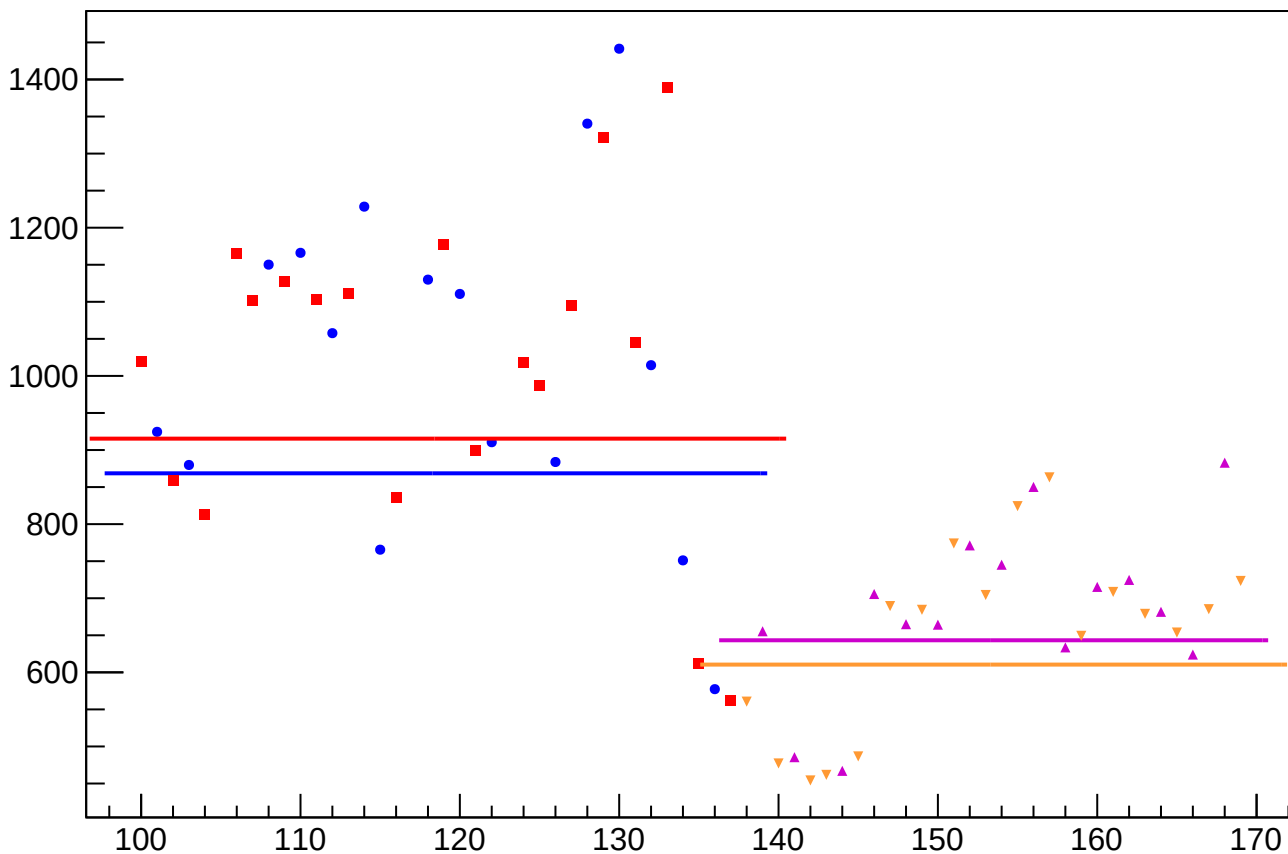
Right: -10.874 ± 241.273 χ^2/NDF : 38.6/34

In: 202.129 ± 162.811 χ^2/NDF : 37.7/30

Out: 391.855 ± 153.080 χ^2/NDF : 53.1/35

All: 302.830 ± 111.525 χ^2/NDF : 91.5/66

asym_usr_atr1_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 868.572 $\pm$ 0.238 χ^2 /NDF: 1021338.5/15

Left Out: 610.466 $\pm$ 0.121 χ^2 /NDF:1030360.0/16

Right Out: 915.360 $\pm$ 0.245 χ^2 /NDF: 858906.6/18

Left In: 643.283 $\pm$ 0.132 χ^2 /NDF:803720.8/14

Left: 625.465 $\pm$ 0.089 χ^2 /NDF: 1867872.0/31

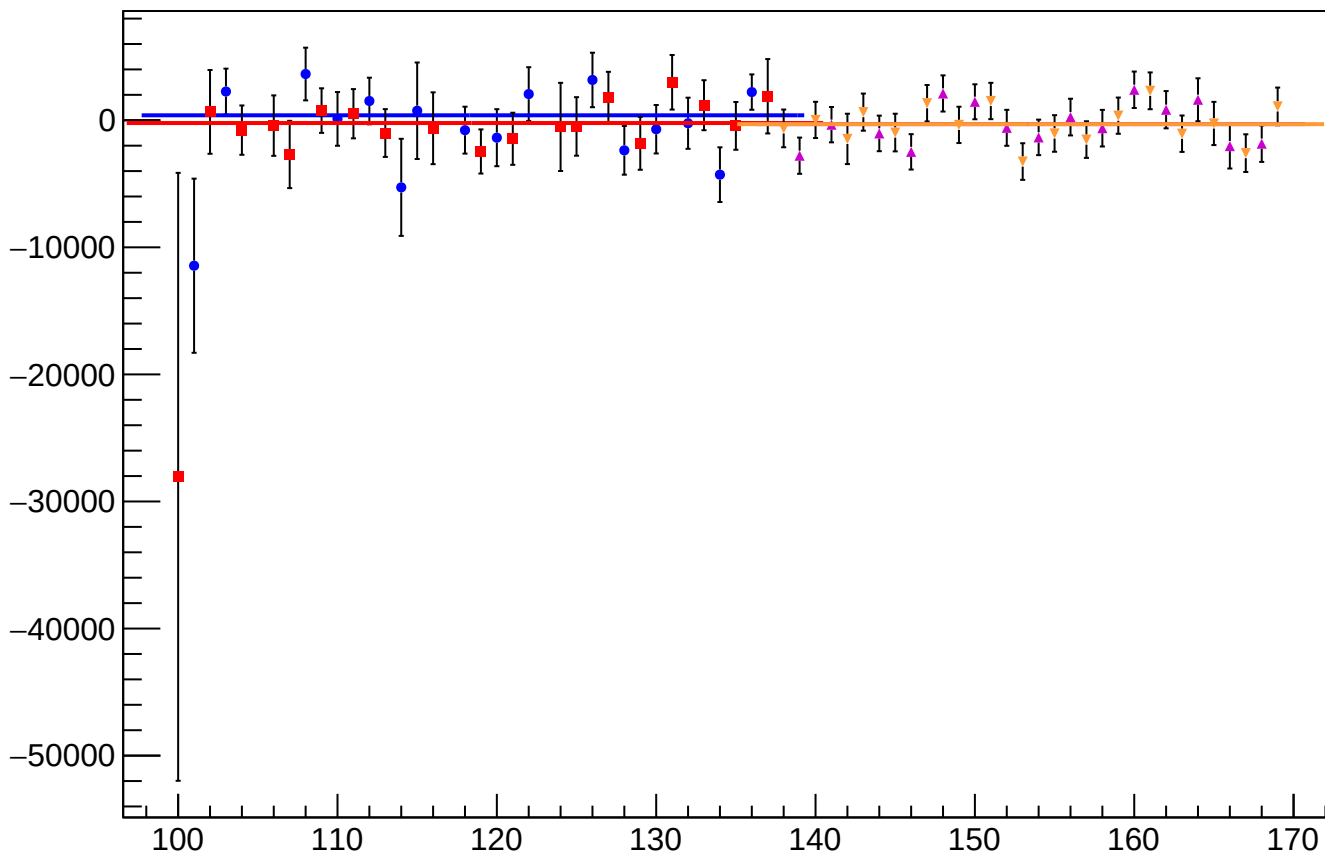
Right: 891.309 $\pm$ 0.171 χ^2 /NDF: 1899033.0/34

In: 696.016 $\pm$ 0.115 χ^2 /NDF:2511618.3/30

Out: 670.111 $\pm$ 0.108 χ^2 /NDF:3137715.8/35

All: 682.266 $\pm$ 0.079 χ^2 /NDF: 5676208.5/66

eigen_dit_asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 389.949 ± 521.159 $\chi^2/\text{NDF}: 21.4/15$

Left Out: -307.363 ± 359.216 $\chi^2/\text{NDF}: 16.2/16$

Right Out: -218.182 ± 507.927 $\chi^2/\text{NDF}: 10.0/18$

Left In: -301.810 ± 374.198 $\chi^2/\text{NDF}: 18.6/14$

Left: -304.700 ± 259.139 $\chi^2/\text{NDF}: 34.8/31$

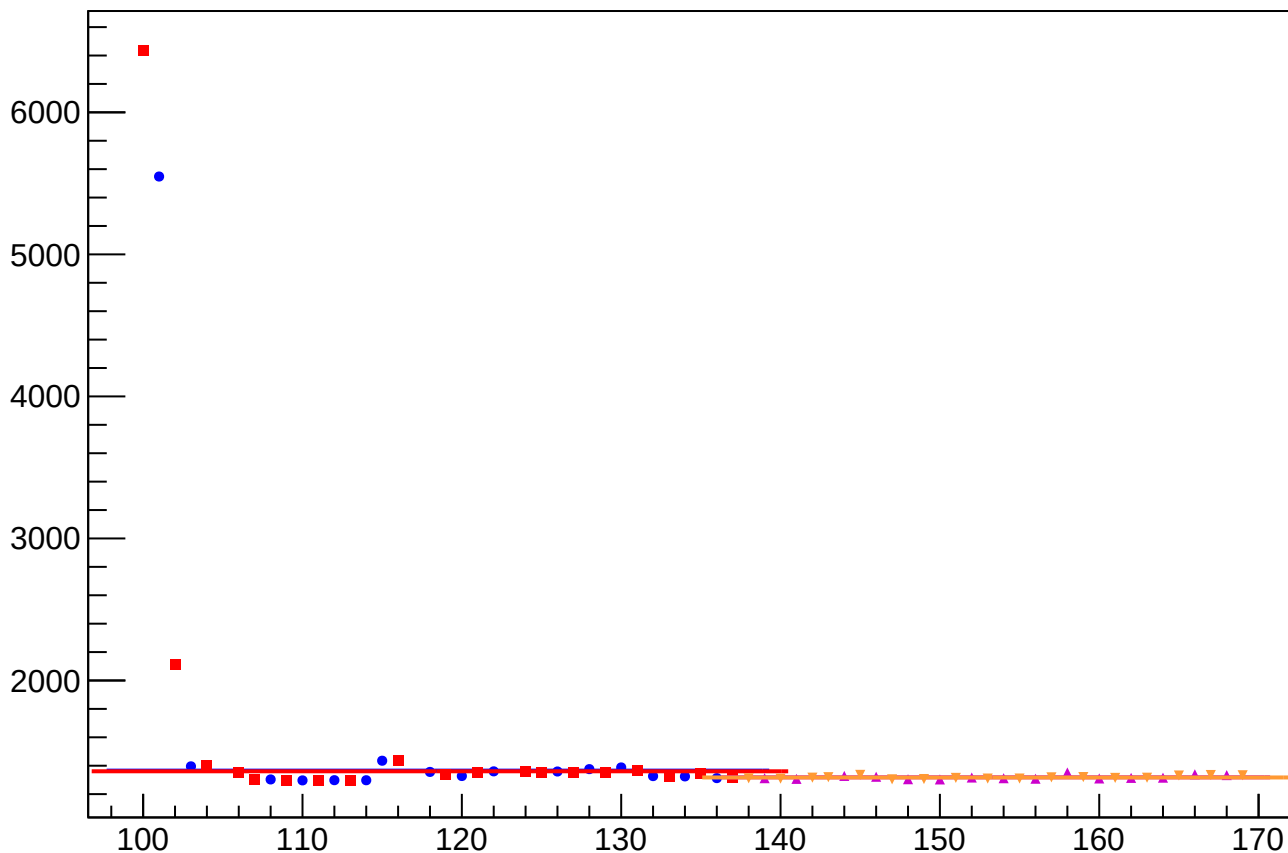
Right: 78.066 ± 363.747 $\chi^2/\text{NDF}: 32.1/34$

In: -66.495 ± 303.961 $\chi^2/\text{NDF}: 41.2/30$

Out: -277.630 ± 293.283 $\chi^2/\text{NDF}: 26.2/35$

All: -175.836 ± 211.056 $\chi^2/\text{NDF}: 67.6/66$

eigen_dit_asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1365.302 $\pm$ 0.369 χ^2 /NDF: 758944.7/15

Left Out: 1317.268 $\pm$ 0.254 χ^2 /NDF:1451.1/16

Right Out: 1360.770 $\pm$ 0.359 χ^2 /NDF: 205315.2/18

Left In: 1318.319 $\pm$ 0.265 χ^2 /NDF:2547.1/14

Left: 1317.772 $\pm$ 0.183 χ^2 /NDF: 4006.4/31

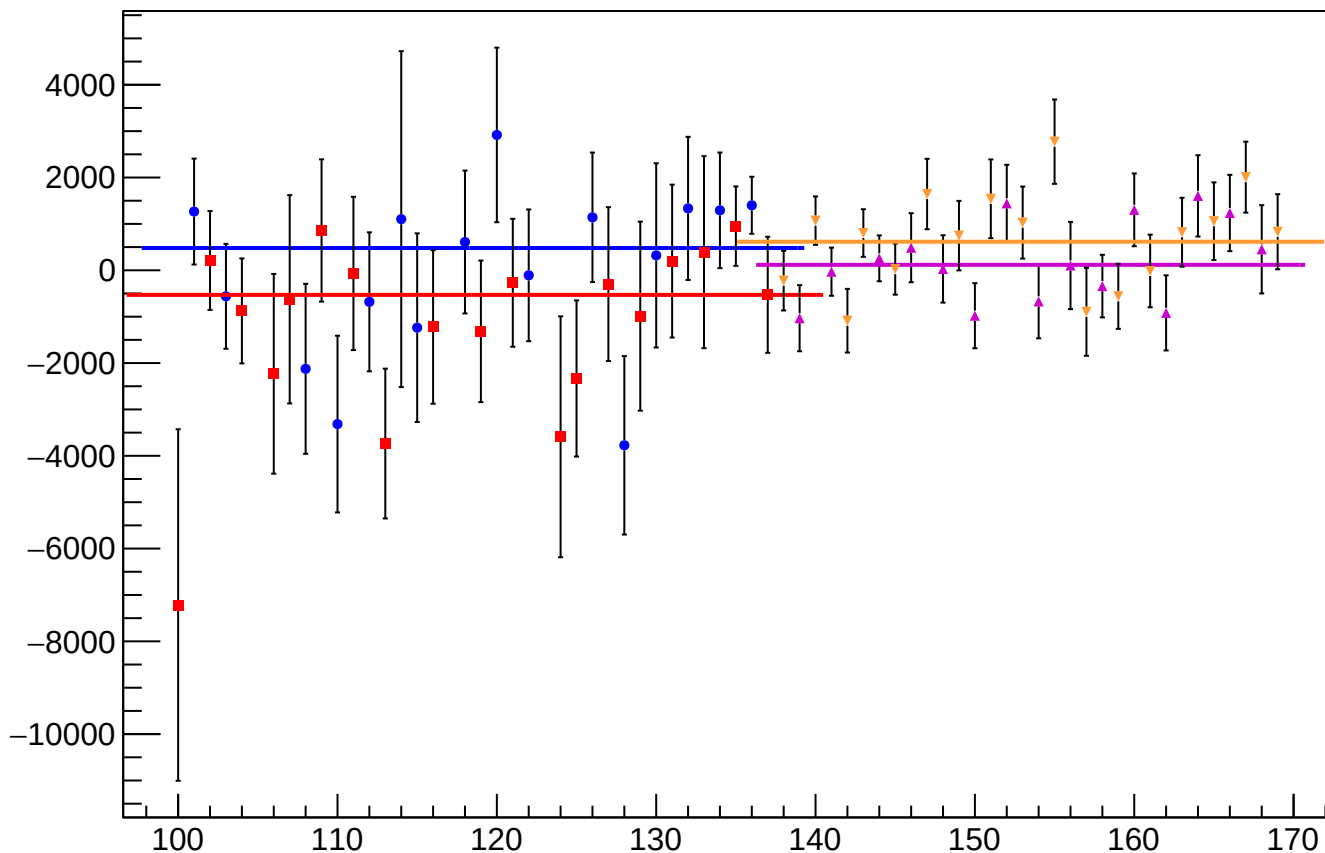
Right: 1362.978 $\pm$ 0.257 χ^2 /NDF: 964337.5/34

In: 1334.301 $\pm$ 0.215 χ^2 /NDF:772216.8/30

Out: 1331.772 $\pm$ 0.207 χ^2 /NDF:216545.7/35

All: 1332.992 $\pm$ 0.149 χ^2 /NDF: 988834.2/66

asym_usr_atr1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 480.400 ± 336.519 χ^2/NDF : 18.6/15

Left Out: 616.181 ± 170.683 χ^2/NDF : 28.6/16

Right Out: -530.531 ± 346.104 χ^2/NDF : 15.6/18

Left In: 117.089 ± 186.032 χ^2/NDF : 18.2/14

Left: 388.071 ± 125.768 χ^2/NDF : 50.7/31

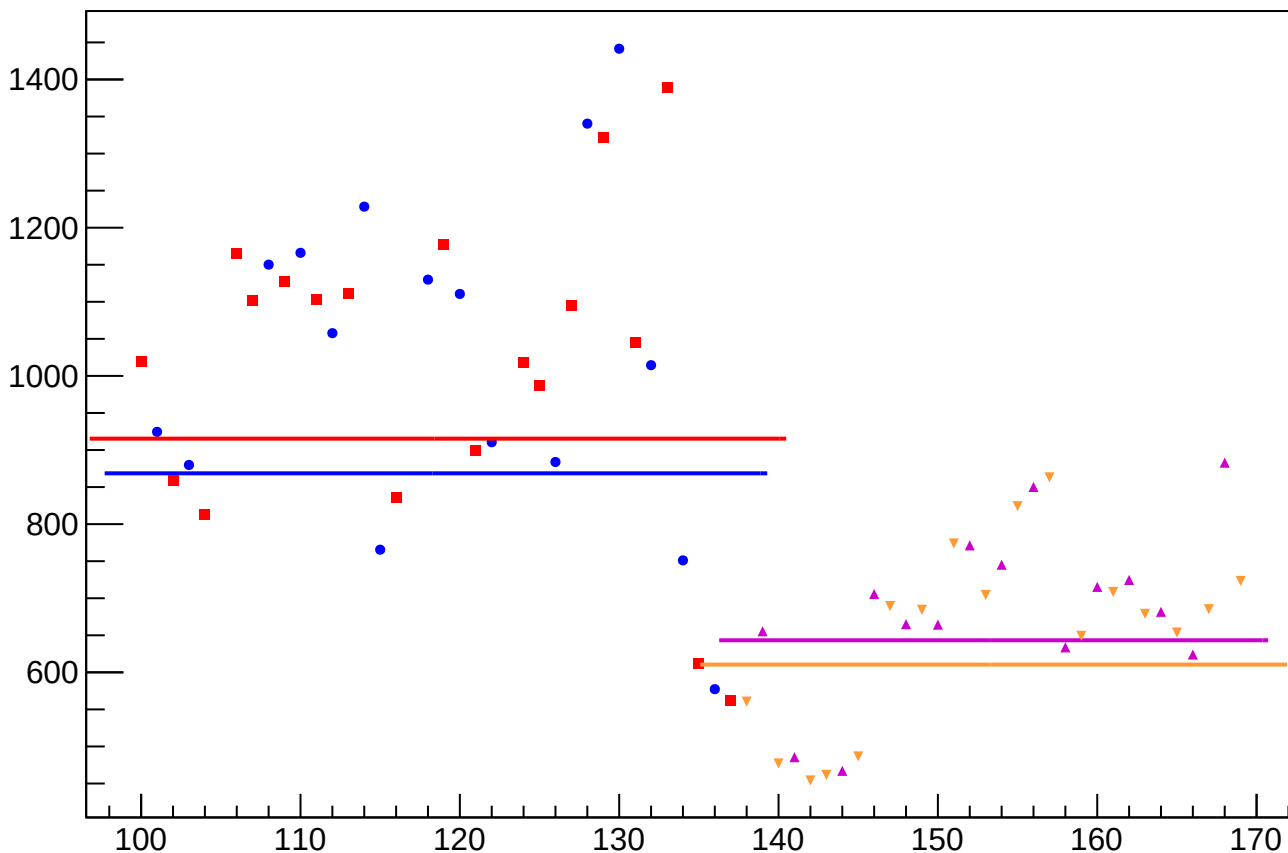
Right: -10.874 ± 241.273 χ^2/NDF : 38.6/34

In: 202.129 ± 162.811 χ^2/NDF : 37.7/30

Out: 391.854 ± 153.080 χ^2/NDF : 53.1/35

All: 302.830 ± 111.525 χ^2/NDF : 91.5/66

asym_usr_atr1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 868.570+/-0.238 χ^2/NDF : 1021337.1/15

Left Out: 610.466+/-0.121 χ^2/NDF : 1030375.0/16

Right Out: 915.358+/-0.245 χ^2/NDF : 858906.3/18

Left In: 643.284+/-0.132 χ^2/NDF : 803728.2/14

Left: 625.466+/-0.089 χ^2/NDF : 1867896.1/31

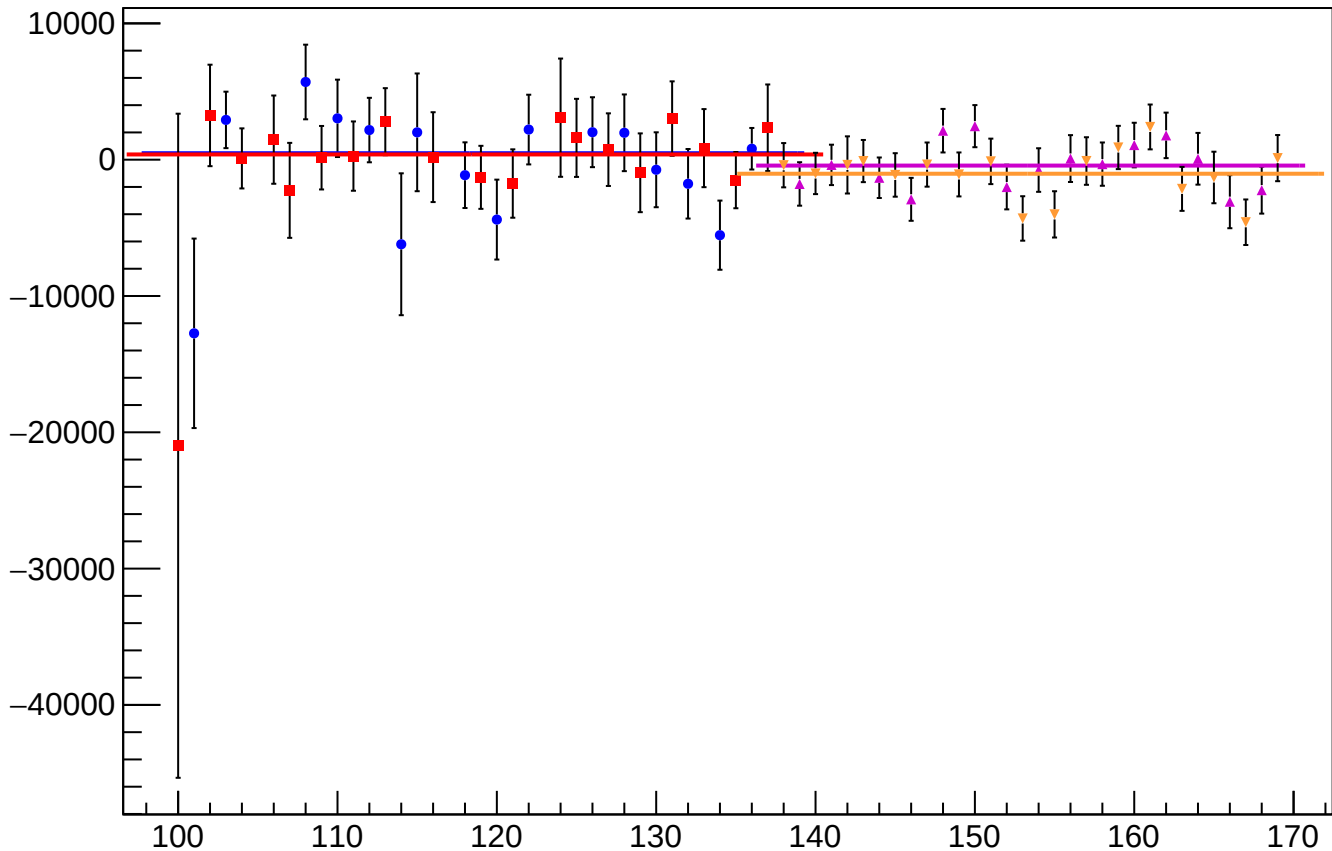
Right: 891.307+/-0.171 χ^2/NDF : 1899032.0/34

In: 696.016+/-0.115 χ^2/NDF : 2511605.9/30

Out: 670.111+/-0.108 χ^2/NDF : 3137718.1/35

All: 682.266+/-0.079 χ^2/NDF : 5676199.4/66

asym_usr_atr1_dd_mean vs Slug, Sign Corrected



Right In: 473.494 $\pm$ 649.243 χ^2 /NDF: 22.7/15

Left Out: -1030.387 $\pm$ 402.691 χ^2 /NDF:19.8/16

Right Out: 384.785 $\pm$ 641.994 χ^2 /NDF: 7.3/18

Left In: -432.057 $\pm$ 421.579 χ^2 /NDF:16.3/14

Left: -744.926 $\pm$ 291.194 χ^2 /NDF: 37.2/31

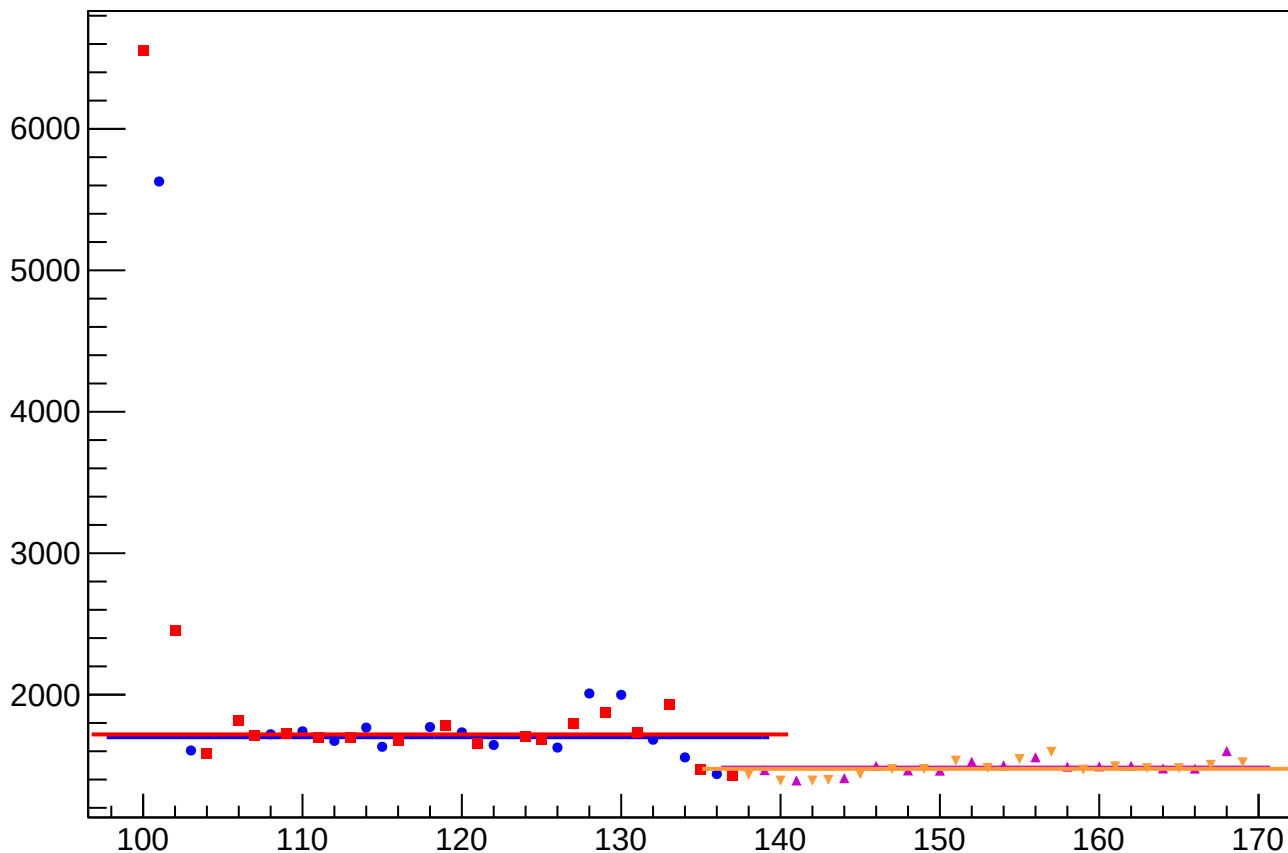
Right: 428.642 $\pm$ 456.500 χ^2 /NDF: 30.0/34

In: -163.481 $\pm$ 353.577 χ^2 /NDF:40.4/30

Out: -630.809 $\pm$ 341.136 χ^2 /NDF:30.6/35

All: -405.512 $\pm$ 245.500 χ^2 /NDF: 71.8/66

asym_usr_atr1_dd_rms vs Slug, Sign Corrected



Right In: 1699.330+/-0.459 χ^2/NDF : 762097.7/15

Left Out: 1475.546+/-0.285 χ^2/NDF : 34157.2/16

Right Out: 1719.103+/-0.454 χ^2/NDF : 233751.6/18

Left In: 1484.321+/-0.298 χ^2/NDF : 28127.1/14

Left: 1479.732+/-0.206 χ^2/NDF : 62737.4/31

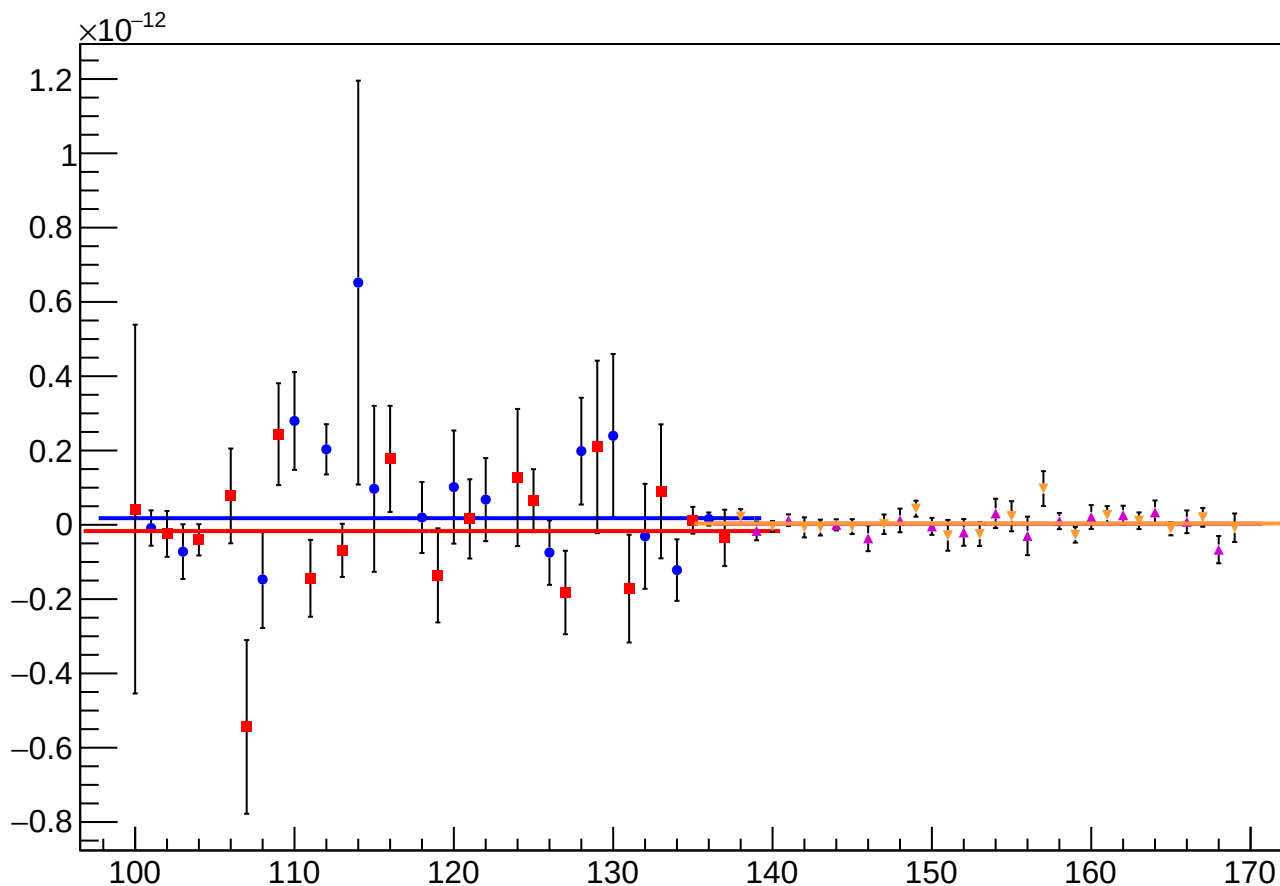
Right: 1709.327+/-0.323 χ^2/NDF : 996787.3/34

In: 1548.090+/-0.250 χ^2/NDF : 944515.0/30

Out: 1544.315+/-0.241 χ^2/NDF : 474485.7/35

All: 1546.135+/-0.174 χ^2/NDF : 1419118.8/66

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :15.0/16

Right Out: -0.000+/-0.000 χ^2/NDF : 21.3/18

Left In: 0.000+/-0.000 $\chi^2/\text{NDF}: 9.6/14$

Left: 0.000+/-0.000 χ^2/NDF : 24.6/31

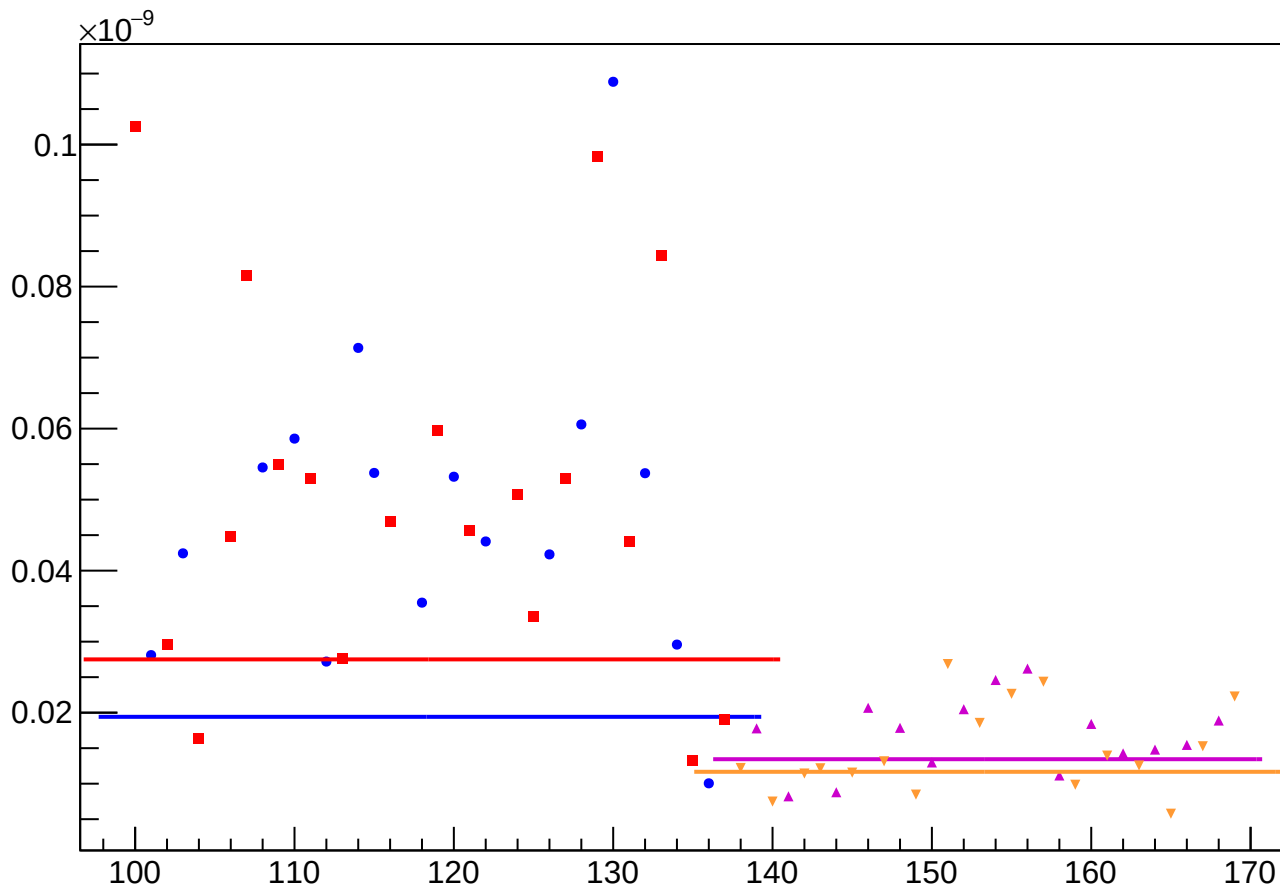
Right: 0.000+/-0.000 χ^2/NDF : 47.0/34

In: 0.000+/-0.000 χ^2/NDF :34.0/30

Out: 0.000+/-0.000 χ^2/NDF :37.4/35

All: 0.000+/-0.000 χ^2/NDF : 71.6/66

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2274412.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :1333503.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1650144.8/18

Left In: 0.000+/-0.000 χ^2/NDF :1091272.0/14

Left: 0.000+/-0.000 χ^2/NDF : 2508121.0/31

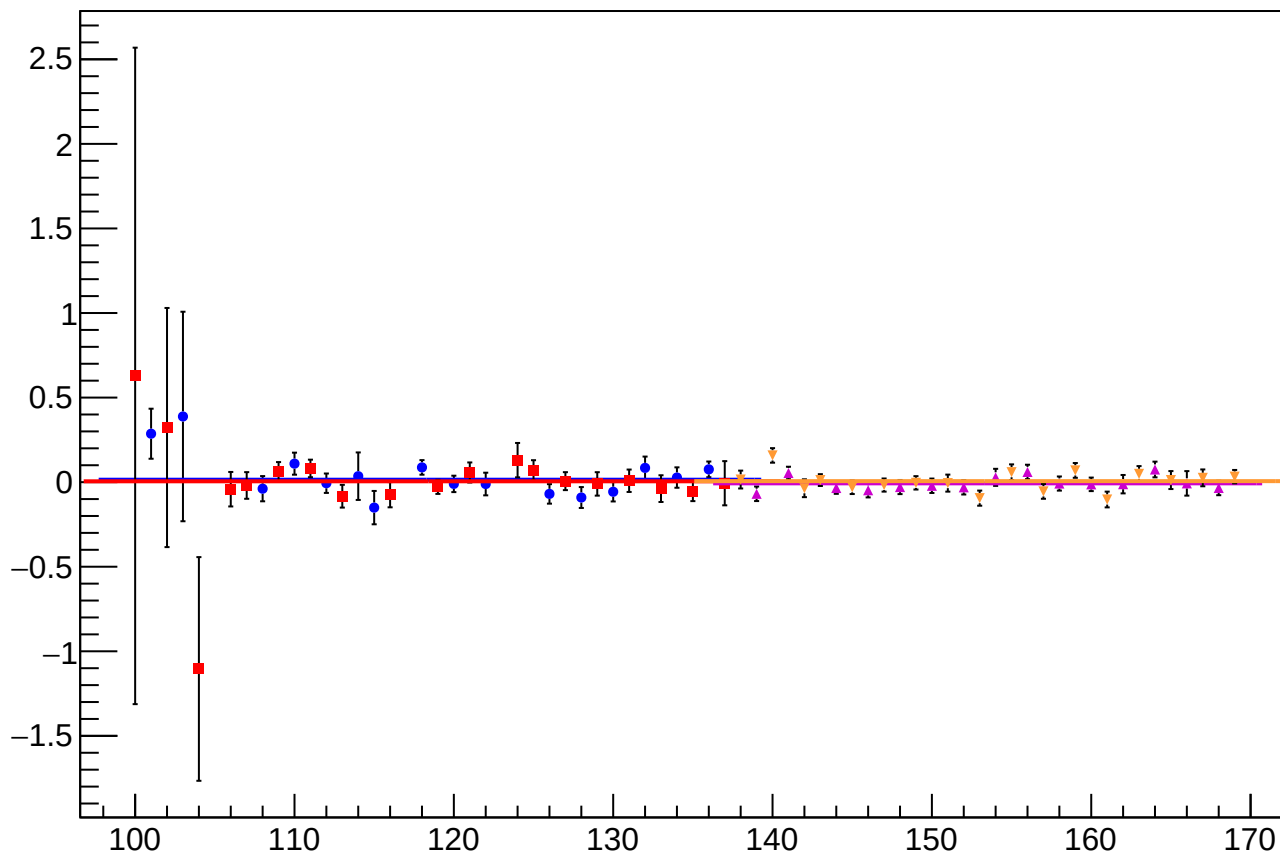
Right: 0.000+/-0.000 χ^2/NDF : 4153449.9/34

In: 0.000+/-0.000 χ^2/NDF :3650934.8/30

Out: 0.000+/-0.000 χ^2/NDF :4245052.1/35

All: 0.000+/-0.000 χ^2/NDF : 7966987.2/66

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.016 χ^2 /NDF: 22.0/15

Left Out: 0.006 $\pm$ 0.011 χ^2 /NDF:31.8/16

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: -0.007 $\pm$ 0.011 χ^2 /NDF:13.6/14

Left: -0.000 $\pm$ 0.008 χ^2 /NDF: 46.1/31

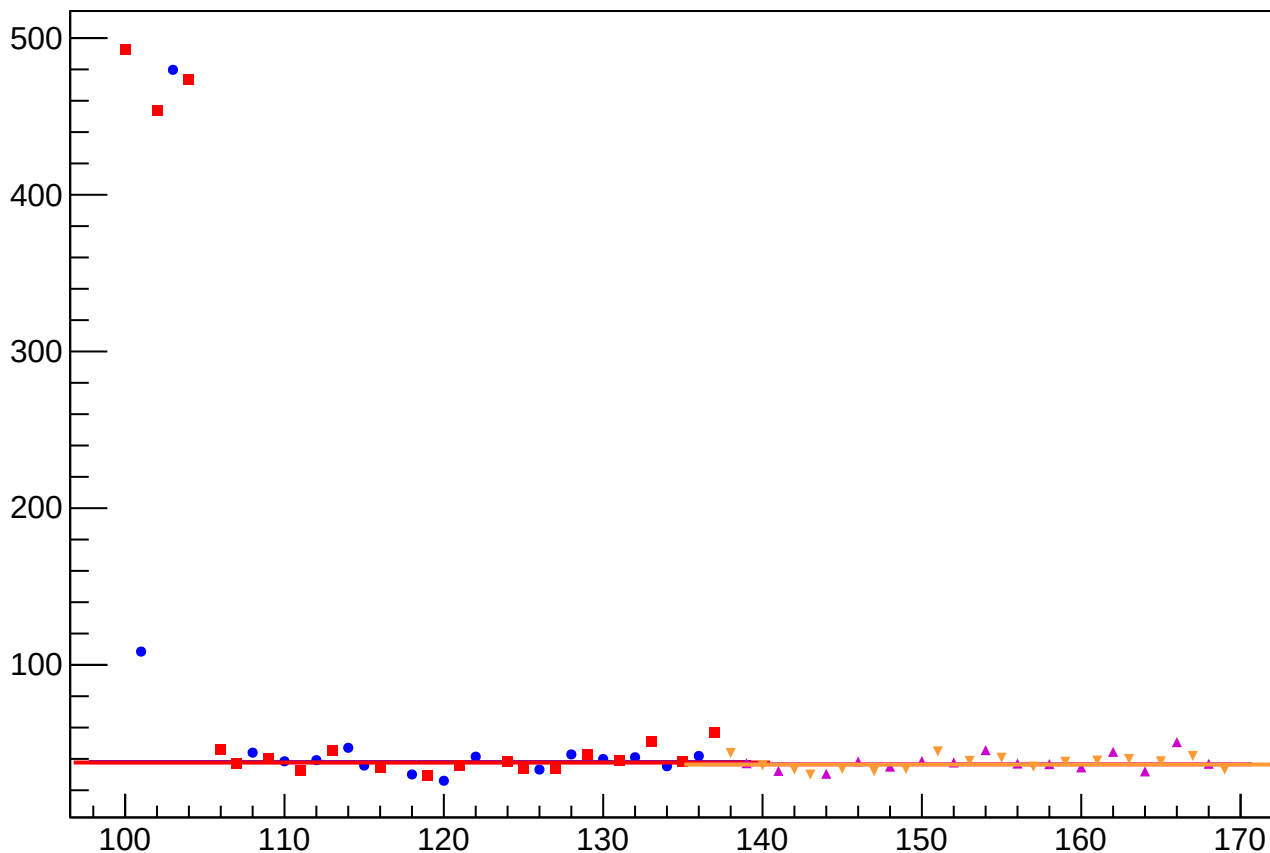
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.000 $\pm$ 0.009 χ^2 /NDF:36.8/30

Out: 0.006 $\pm$ 0.009 χ^2 /NDF:46.7/35

All: 0.003 $\pm$ 0.006 χ^2 /NDF: 83.7/66

asym_usr_atr1_dd_dit_vs_slug, Sign Corrected



Right In: 37.942 $\pm$ 0.011 χ^2 /NDF: 1739669.4/15

Left Out: 36.412 $\pm$ 0.008 χ^2 /NDF: 297480.6/16

Right Out: 37.696 $\pm$ 0.011 χ^2 /NDF: 1944881.8/18

Left In: 36.608 $\pm$ 0.008 χ^2 /NDF: 308149.2/14

Left: 36.505 $\pm$ 0.005 χ^2 /NDF: 605951.0/31

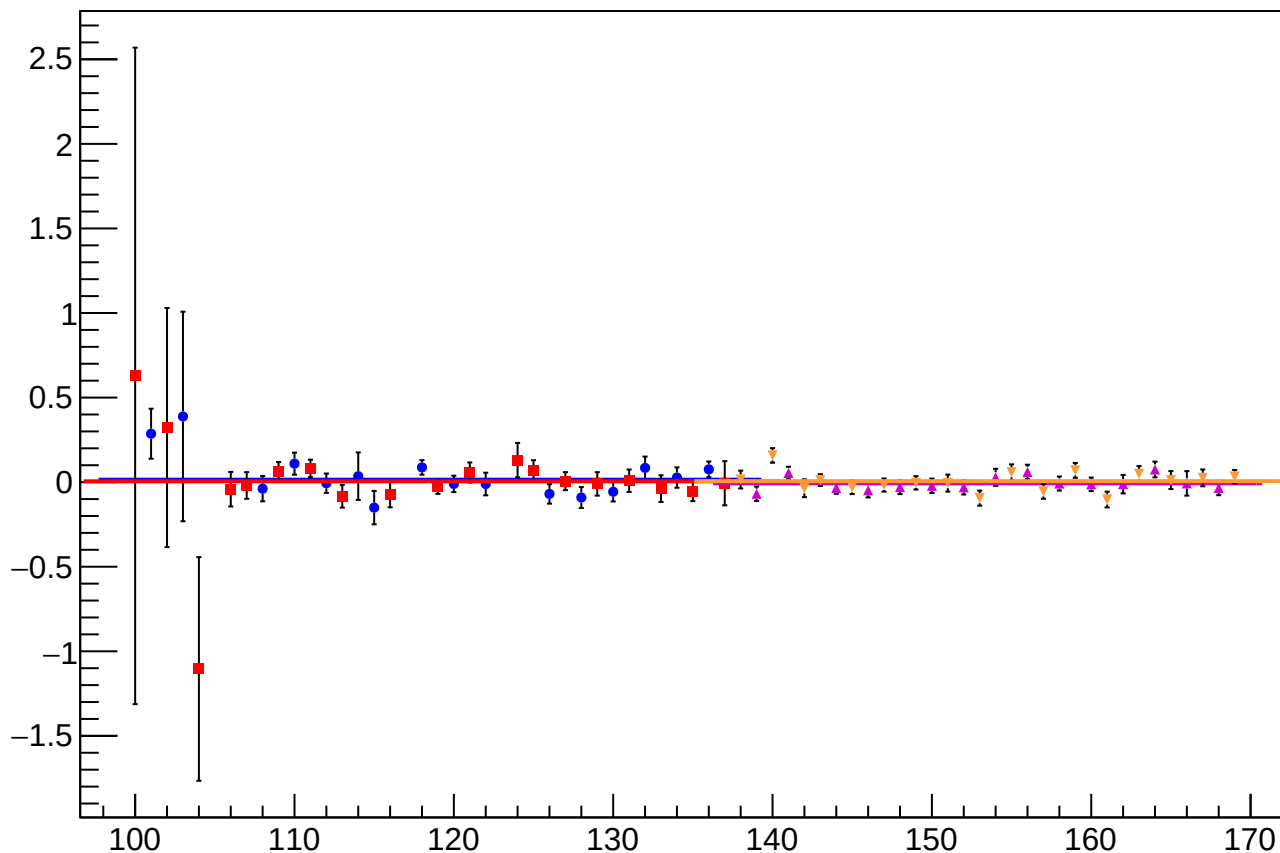
Right: 37.820 $\pm$ 0.008 χ^2 /NDF: 3684788.8/34

In: 37.047 $\pm$ 0.006 χ^2 /NDF: 2057230.4/30

Out: 36.807 $\pm$ 0.006 χ^2 /NDF: 2251228.3/35

All: 36.924 $\pm$ 0.005 χ^2 /NDF: 4309170.0/66

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.016 χ^2 /NDF: 22.0/15

Left Out: 0.006 $\pm$ 0.011 χ^2 /NDF:31.8/16

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: -0.007 $\pm$ 0.011 χ^2 /NDF:13.6/14

Left: -0.000 $\pm$ 0.008 χ^2 /NDF: 46.1/31

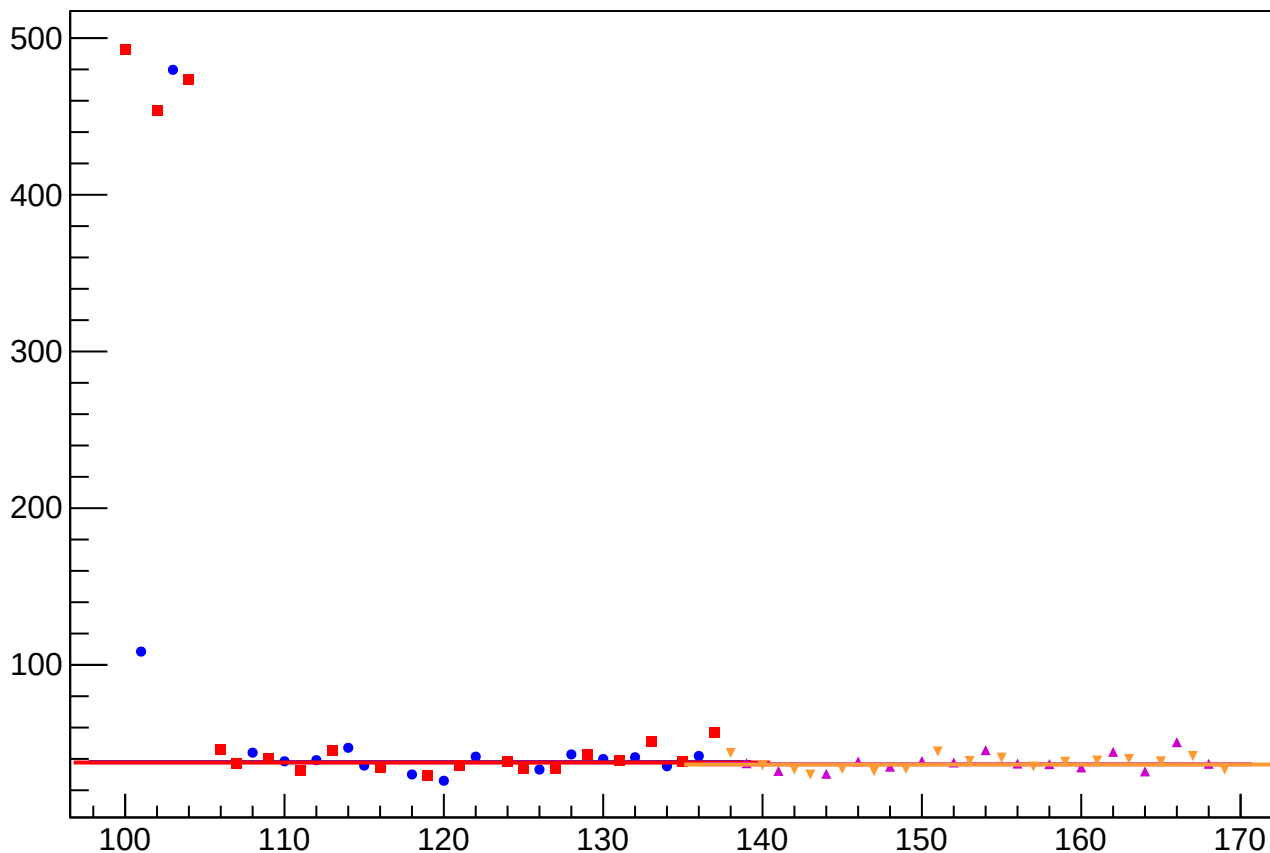
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.000 $\pm$ 0.009 χ^2 /NDF:36.8/30

Out: 0.006 $\pm$ 0.009 χ^2 /NDF:46.7/35

All: 0.003 $\pm$ 0.006 χ^2 /NDF: 83.7/66

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.942 $\pm$ 0.011 χ^2 /NDF: 1739669.4/15

Left Out: 36.412 $\pm$ 0.008 χ^2 /NDF: 297480.6/16

Right Out: 37.696 $\pm$ 0.011 χ^2 /NDF: 1944881.8/18

Left In: 36.608 $\pm$ 0.008 χ^2 /NDF: 308149.2/14

Left: 36.505 $\pm$ 0.005 χ^2 /NDF: 605951.0/31

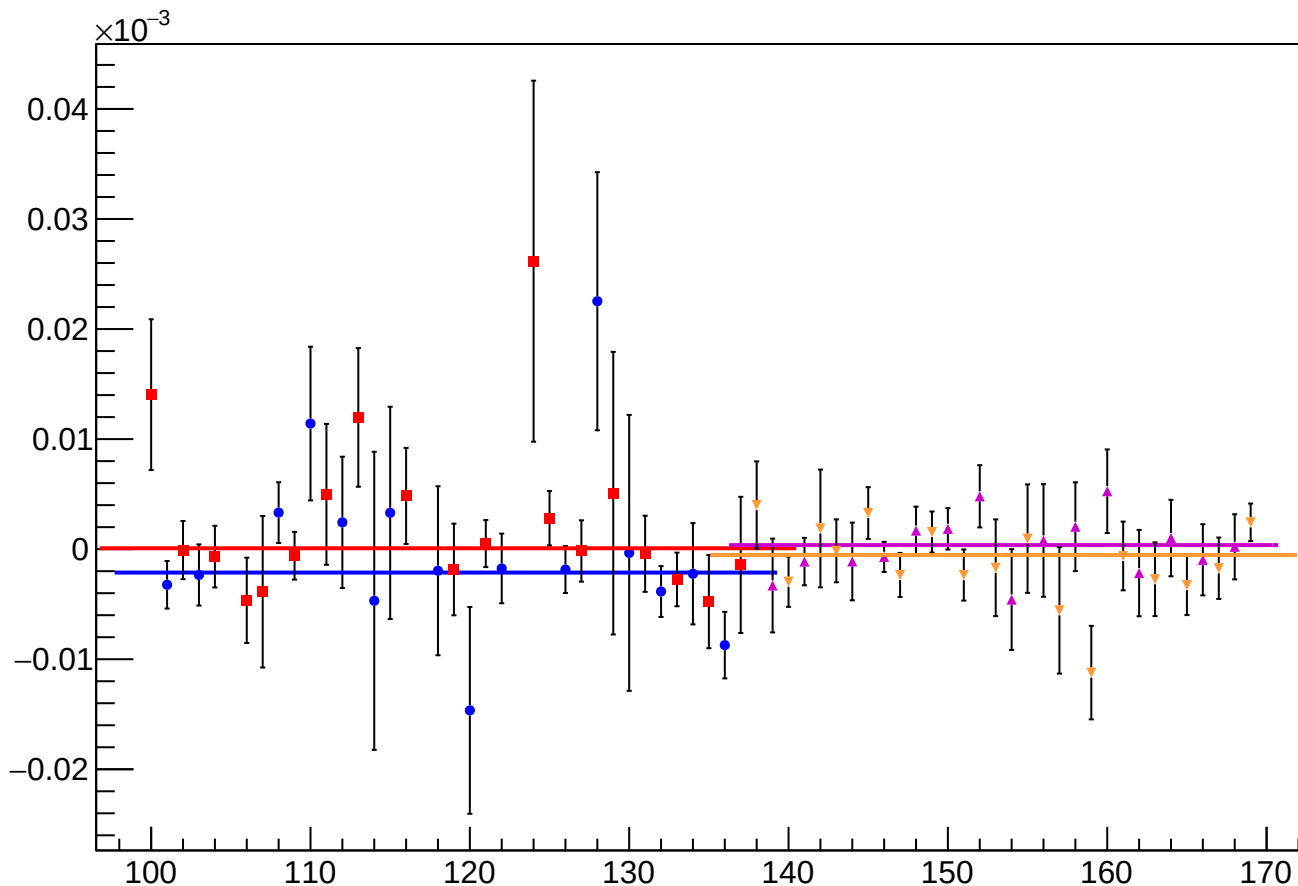
Right: 37.820 $\pm$ 0.008 χ^2 /NDF: 3684788.8/34

In: 37.047 $\pm$ 0.006 χ^2 /NDF: 2057230.4/30

Out: 36.807 $\pm$ 0.006 χ^2 /NDF: 2251228.3/35

All: 36.924 $\pm$ 0.005 χ^2 /NDF: 4309170.0/66

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 20.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 19.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 18.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 9.1/14

Left: -0.000+/-0.000 χ^2/NDF : 29.9/31

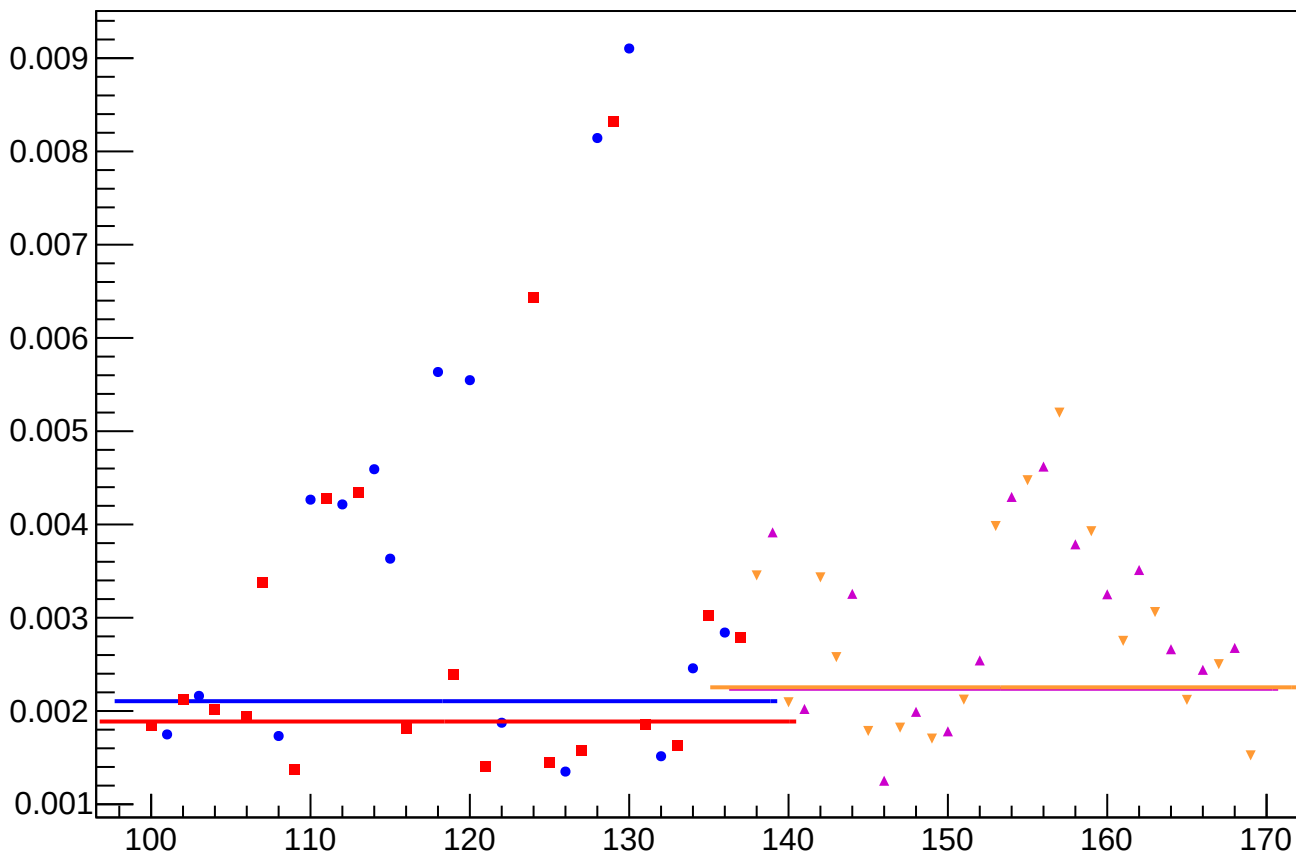
Right: -0.000+/-0.000 χ^2/NDF : 42.2/34

In: -0.000+/-0.000 χ^2/NDF : 34.3/30

Out: -0.000+/-0.000 χ^2/NDF : 38.6/35

All: -0.000+/-0.000 χ^2/NDF : 73.1/66

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3017568.9/15

Left Out: 0.002+/-0.000 χ^2/NDF :2773071.7/16

Right Out: 0.002+/-0.000 χ^2/NDF : 1892000.0/18

Left In: 0.002+/-0.000 χ^2/NDF :3266205.8/14

Left: 0.002+/-0.000 χ^2/NDF : 6039793.6/31

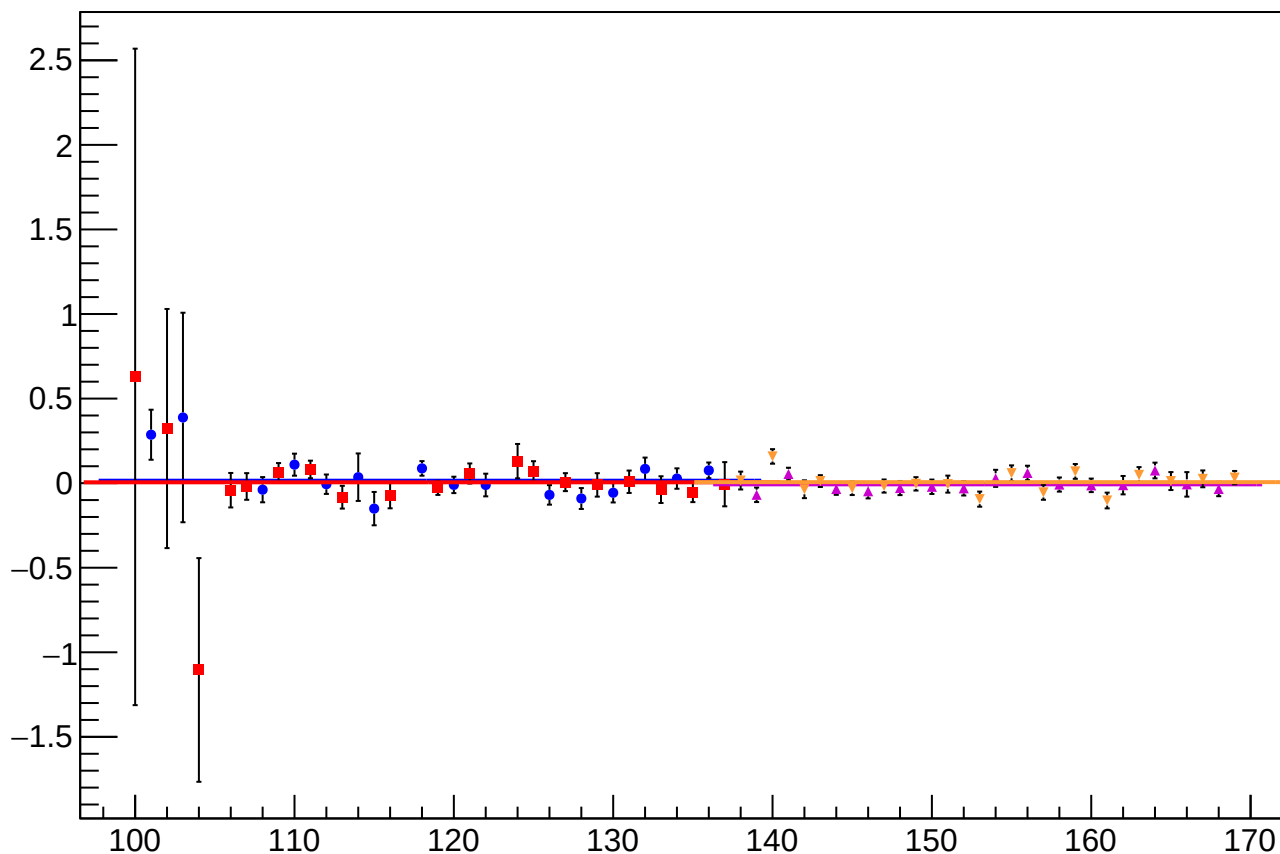
Right: 0.002+/-0.000 χ^2/NDF : 4976274.3/34

In: 0.002+/-0.000 χ^2/NDF :6311414.7/30

Out: 0.002+/-0.000 χ^2/NDF :4919029.2/35

All: 0.002+/-0.000 χ^2/NDF : 11256819.1/66

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.016 χ^2 /NDF: 22.0/15

Left Out: 0.006 $\pm$ 0.011 χ^2 /NDF:31.8/16

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: -0.007 $\pm$ 0.011 χ^2 /NDF:13.6/14

Left: -0.000 $\pm$ 0.008 χ^2 /NDF: 46.1/31

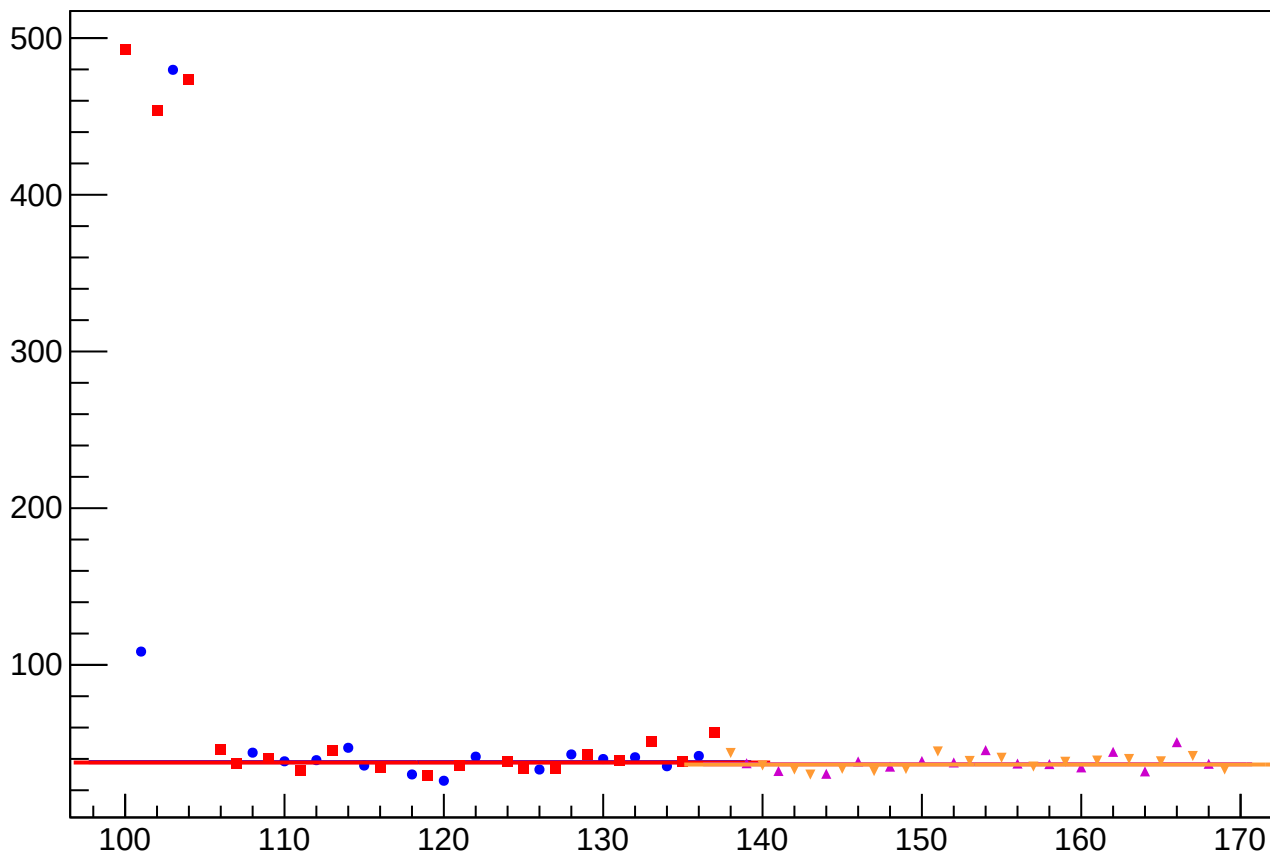
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.000 $\pm$ 0.009 χ^2 /NDF:36.8/30

Out: 0.006 $\pm$ 0.009 χ^2 /NDF:46.7/35

All: 0.003 $\pm$ 0.006 χ^2 /NDF: 83.7/66

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.942 $\pm$ 0.011 χ^2 /NDF: 1739681.1/15

Left Out: 36.412 $\pm$ 0.008 χ^2 /NDF: 297532.4/16

Right Out: 37.695 $\pm$ 0.011 χ^2 /NDF: 1944959.2/18

Left In: 36.607 $\pm$ 0.008 χ^2 /NDF: 308184.9/14

Left: 36.505 $\pm$ 0.005 χ^2 /NDF: 606037.8/31

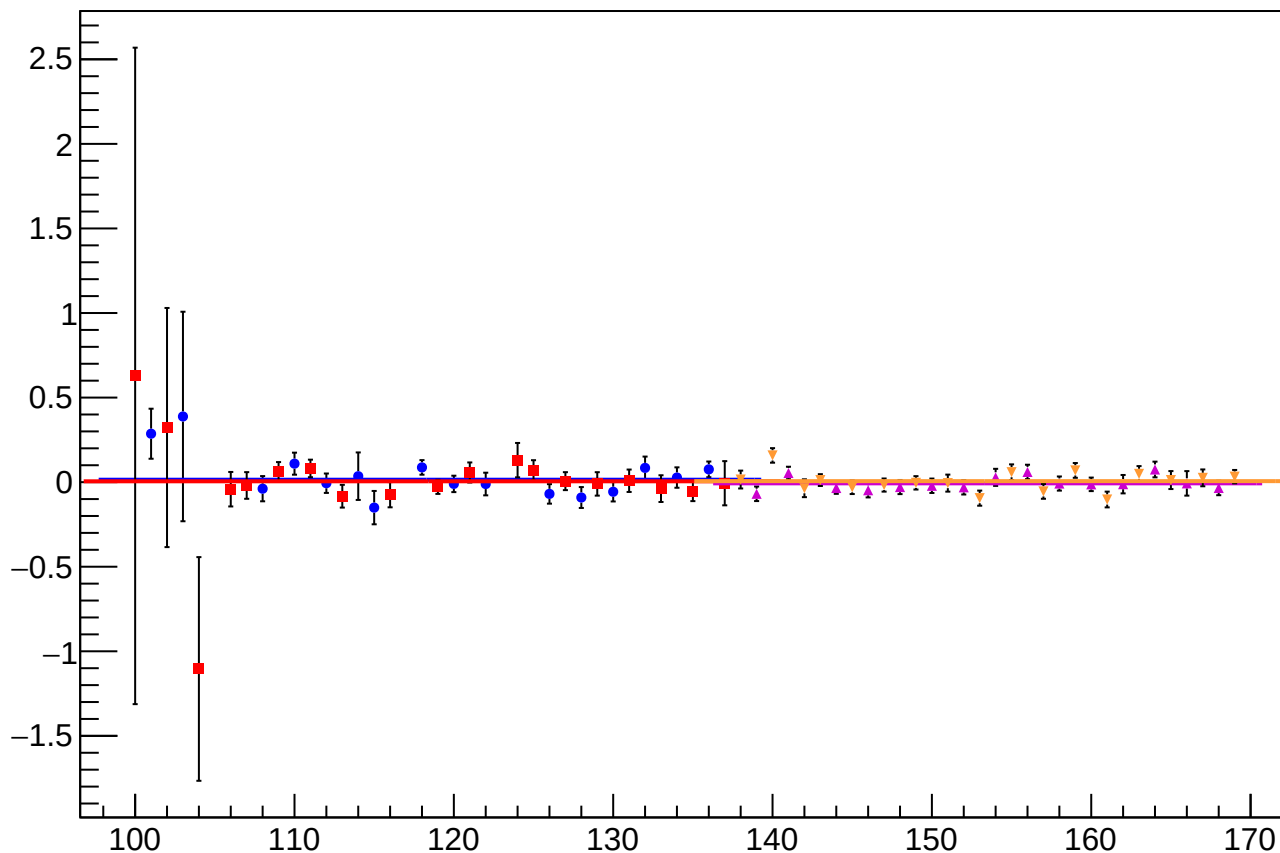
Right: 37.819 $\pm$ 0.008 χ^2 /NDF: 3684879.3/34

In: 37.047 $\pm$ 0.006 χ^2 /NDF: 2057275.7/30

Out: 36.806 $\pm$ 0.006 χ^2 /NDF: 2251342.8/35

All: 36.923 $\pm$ 0.005 χ^2 /NDF: 4309330.1/66

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.016 χ^2 /NDF: 22.0/15

Left Out: 0.006 $\pm$ 0.011 χ^2 /NDF:31.8/16

Right Out: 0.005 $\pm$ 0.016 χ^2 /NDF: 14.9/18

Left In: -0.007 $\pm$ 0.011 χ^2 /NDF:13.6/14

Left: -0.000 $\pm$ 0.008 χ^2 /NDF: 46.1/31

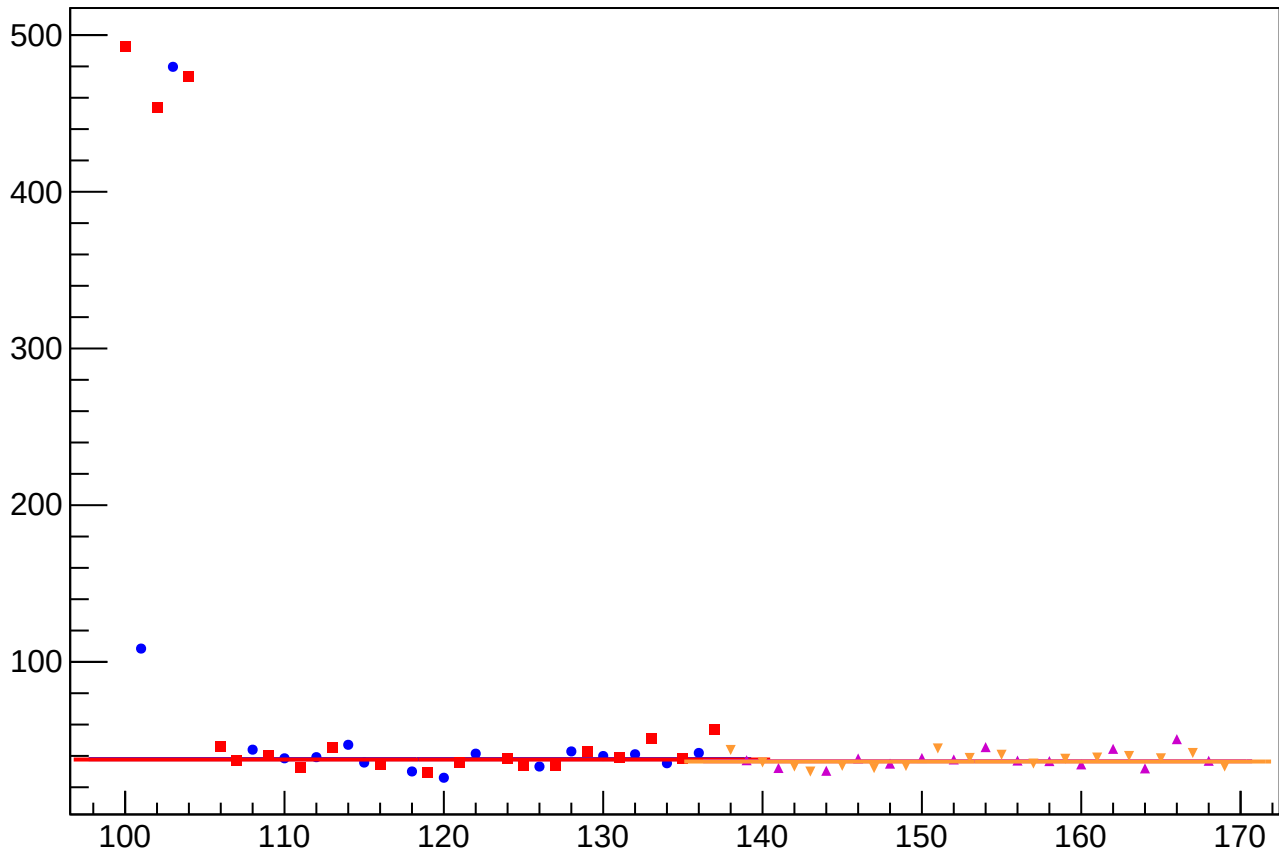
Right: 0.010 $\pm$ 0.011 χ^2 /NDF: 37.1/34

In: 0.000 $\pm$ 0.009 χ^2 /NDF:36.8/30

Out: 0.006 $\pm$ 0.009 χ^2 /NDF:46.7/35

All: 0.003 $\pm$ 0.006 χ^2 /NDF: 83.7/66

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 37.942 $\pm$ 0.011 χ^2 /NDF: 1739681.1/15

Left Out: 36.412 $\pm$ 0.008 χ^2 /NDF: 297532.4/16

Right Out: 37.695 $\pm$ 0.011 χ^2 /NDF: 1944959.2/18

Left In: 36.607 $\pm$ 0.008 χ^2 /NDF: 308184.9/14

Left: 36.505 $\pm$ 0.005 χ^2 /NDF: 606037.8/31

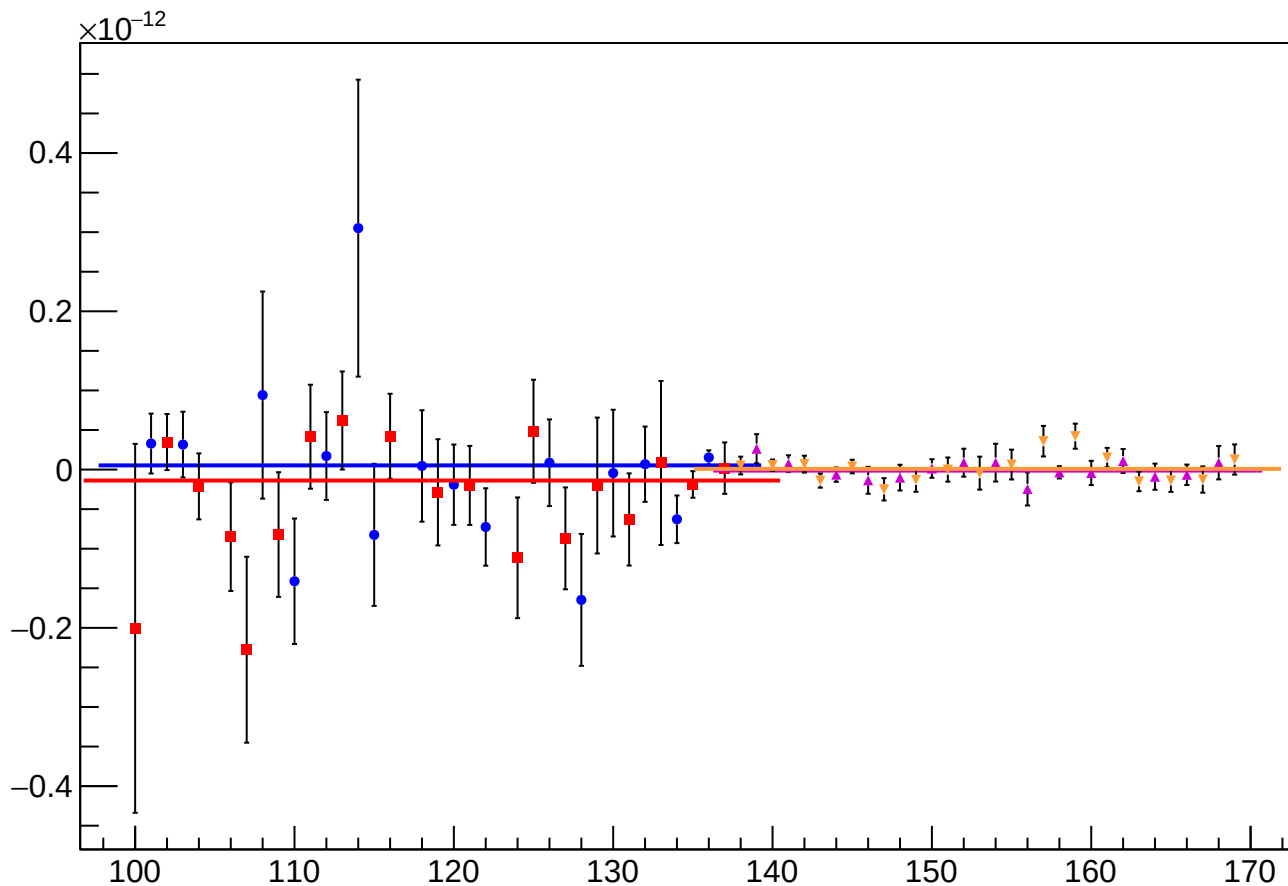
Right: 37.819 $\pm$ 0.008 χ^2 /NDF: 3684879.3/34

In: 37.047 $\pm$ 0.006 χ^2 /NDF: 2057275.7/30

Out: 36.806 $\pm$ 0.006 χ^2 /NDF: 2251342.8/35

All: 36.923 $\pm$ 0.005 χ^2 /NDF: 4309330.1/66

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 21.7/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:23.3/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 16.0/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:7.2/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 30.7/31

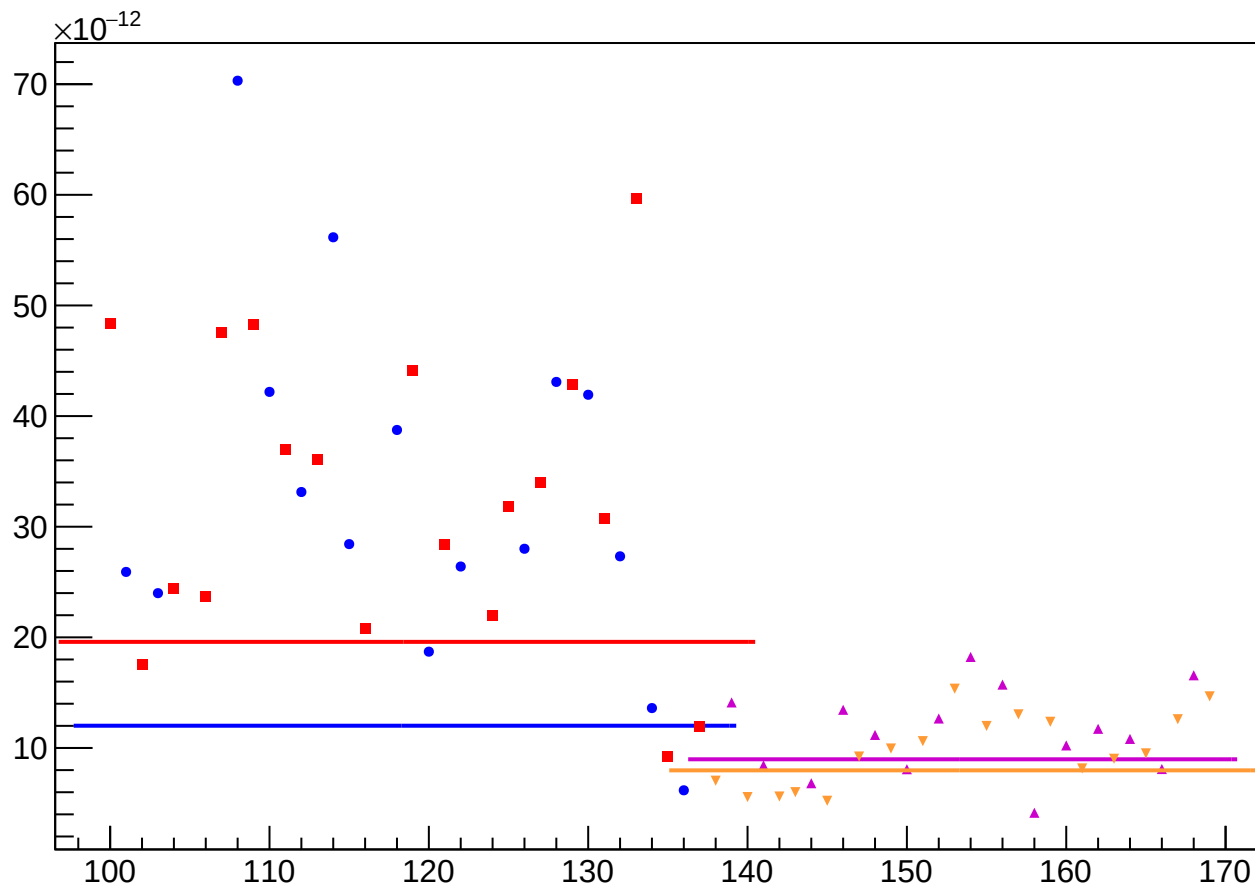
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 39.8/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:29.5/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:41.1/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 70.6/66

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3869196.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1816542.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2619469.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 2211098.9/14

Left: 0.000+/-0.000 χ^2/NDF : 4122788.6/31

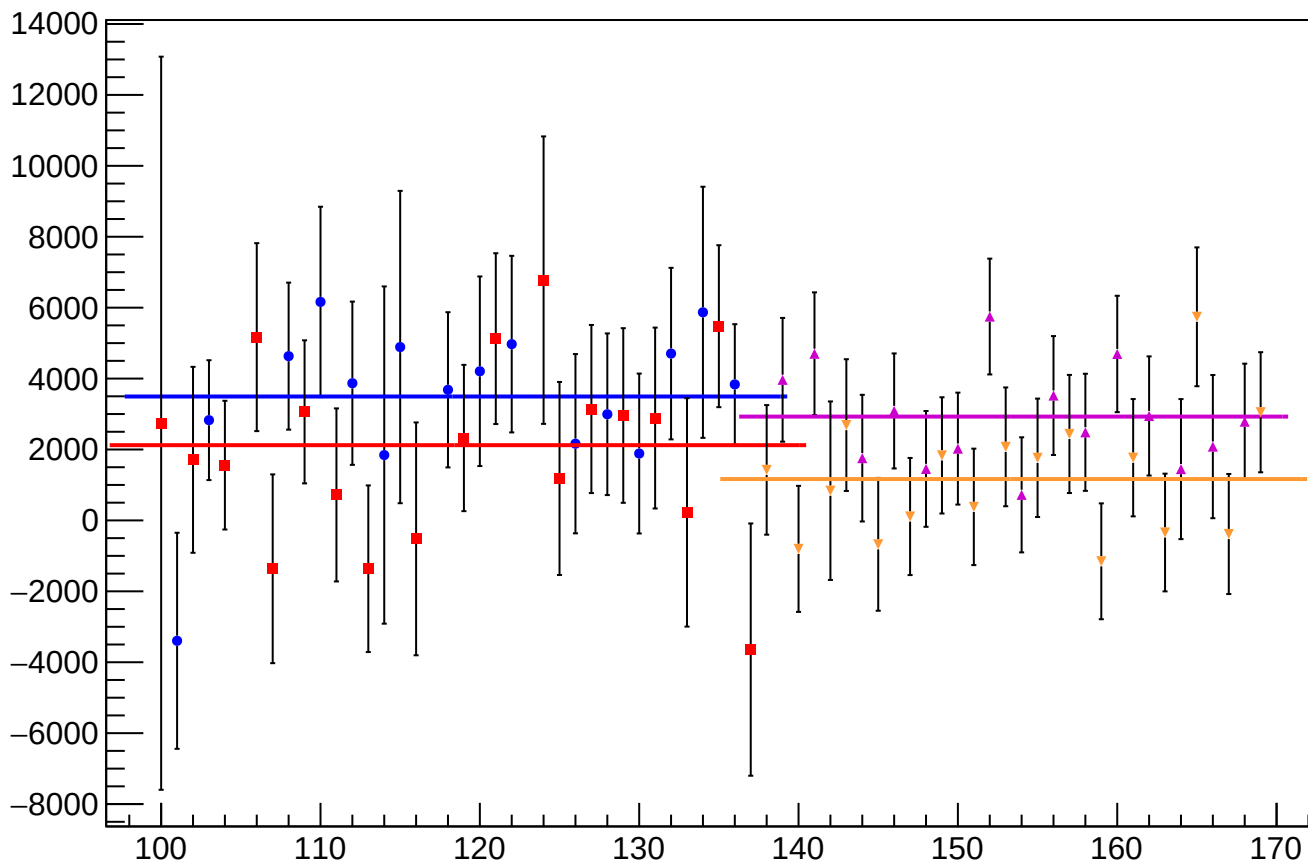
Right: 0.000+/-0.000 χ^2/NDF : 7170019.9/34

In: 0.000+/-0.000 χ^2/NDF : 6346515.0/30

Out: 0.000+/-0.000 χ^2/NDF : 6675731.7/35

All: 0.000+/-0.000 χ^2/NDF : 13070876.0/66

reg_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3494.380+/-601.185 χ^2/NDF : 8.8/15

Left Out: 1166.214+/-422.772 χ^2/NDF : 15.2/16

Right Out: 2121.717+/-587.617 χ^2/NDF : 15.1/18

Left In: 2927.908+/-438.106 χ^2/NDF : 9.9/14

Left: 2015.693+/-304.222 χ^2/NDF : 33.5/31

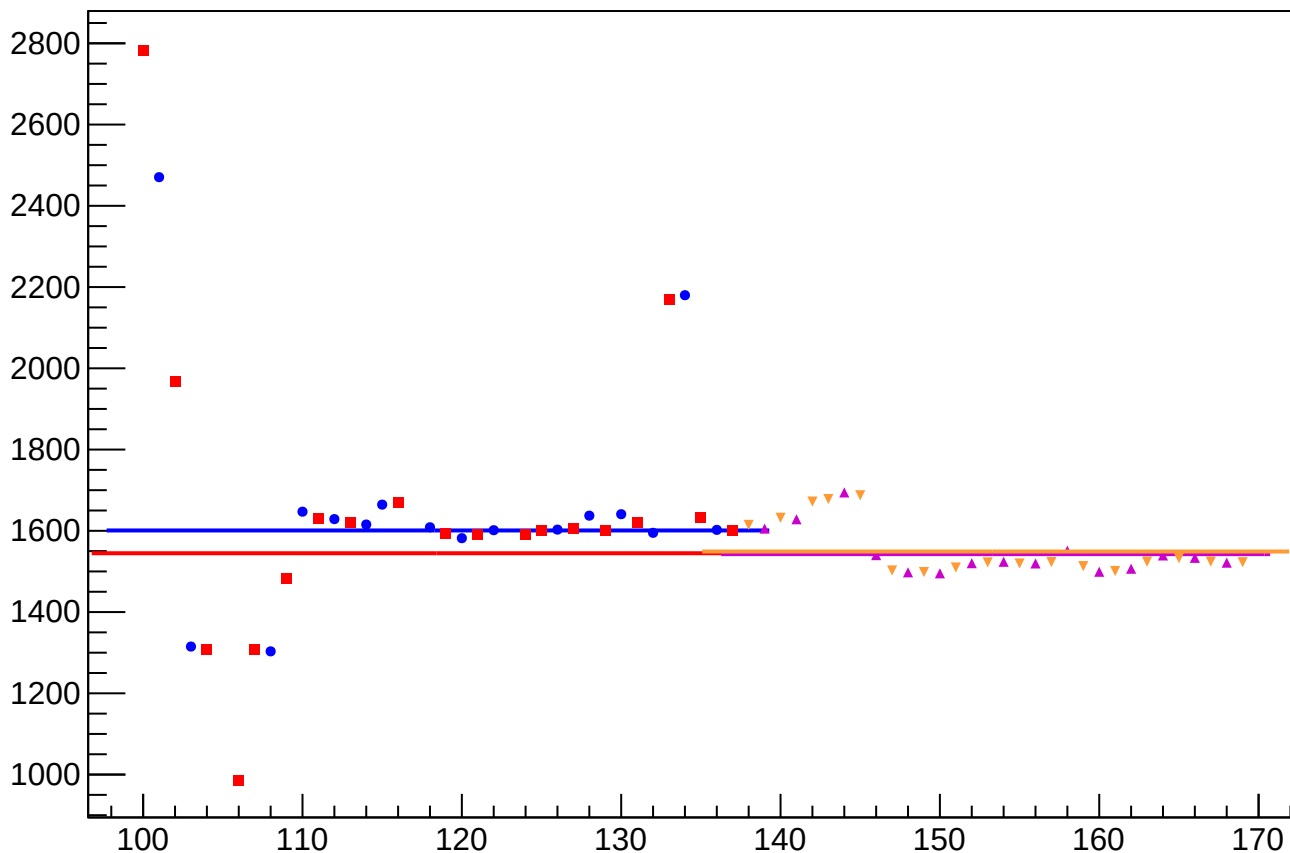
Right: 2792.384+/-420.223 χ^2/NDF : 26.6/34

In: 3124.393+/-354.065 χ^2/NDF : 19.3/30

Out: 1492.117+/-343.181 χ^2/NDF : 32.0/35

All: 2282.780+/-246.423 χ^2/NDF : 62.3/66

reg_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1600.880 $\pm$ 0.425 χ^2 /NDF: 317414.0/15

Left Out: 1549.057 $\pm$ 0.299 χ^2 /NDF: 42713.1/16

Right Out: 1544.809 $\pm$ 0.409 χ^2 /NDF: 376127.4/18

Left In: 1542.608 $\pm$ 0.310 χ^2 /NDF: 29035.9/14

Left: 1545.947 $\pm$ 0.215 χ^2 /NDF: 71973.4/31

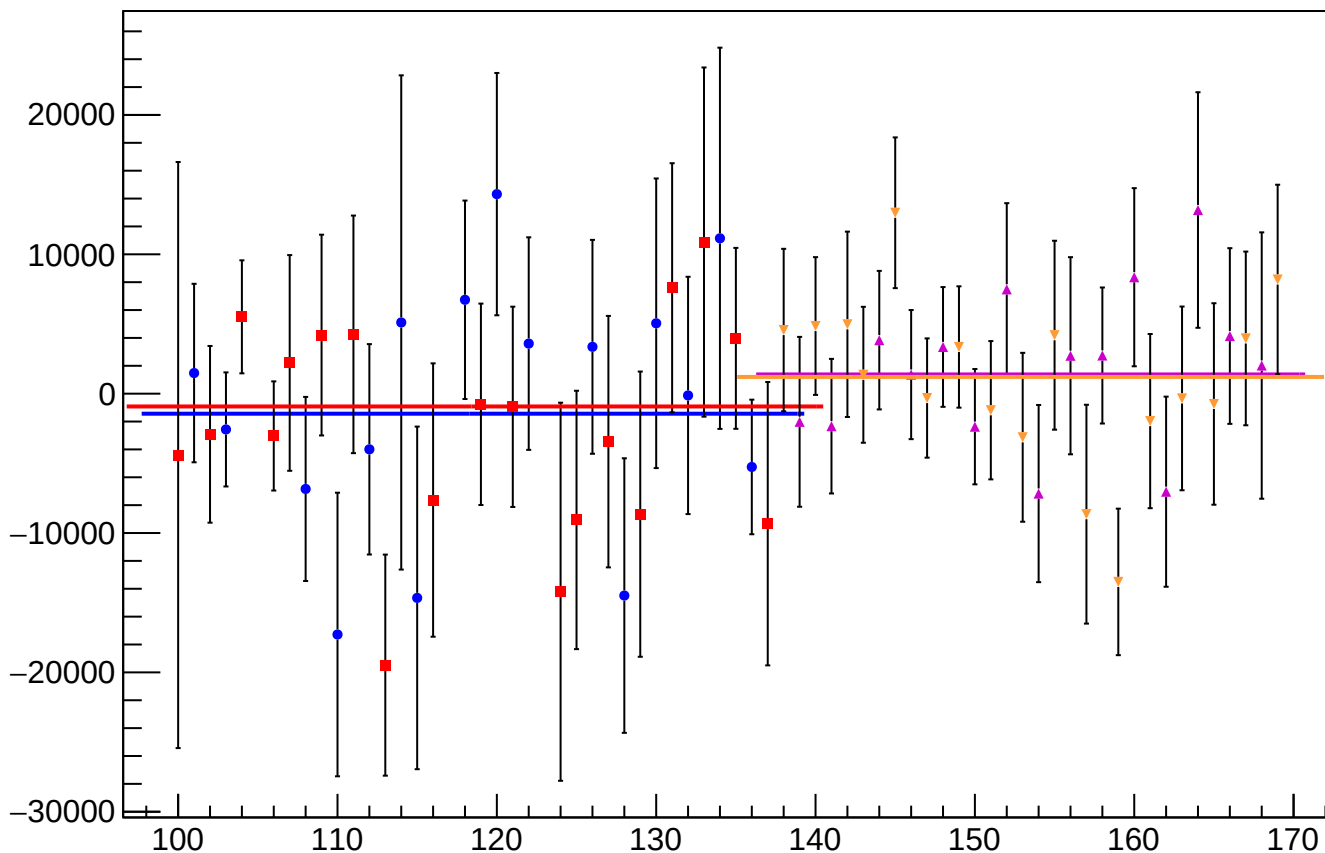
Right: 1571.734 $\pm$ 0.295 χ^2 /NDF: 702584.8/34

In: 1562.820 $\pm$ 0.250 χ^2 /NDF: 358722.4/30

Out: 1547.576 $\pm$ 0.241 χ^2 /NDF: 418910.9/35

All: 1554.916 $\pm$ 0.174 χ^2 /NDF: 779555.7/66

asym_usr_atr2_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1437.118 $\pm$ 1848.287 χ^2 /NDF: 13.9/15

Left Out: 1201.504 $\pm$ 1368.872 χ^2 /NDF:18.3/16

Right Out: -918.485 $\pm$ 1669.278 χ^2 /NDF: 15.3/18

Left In: 1379.570 $\pm$ 1445.866 χ^2 /NDF:9.9/14

Left: 1285.670 $\pm$ 994.044 χ^2 /NDF: 28.2/31

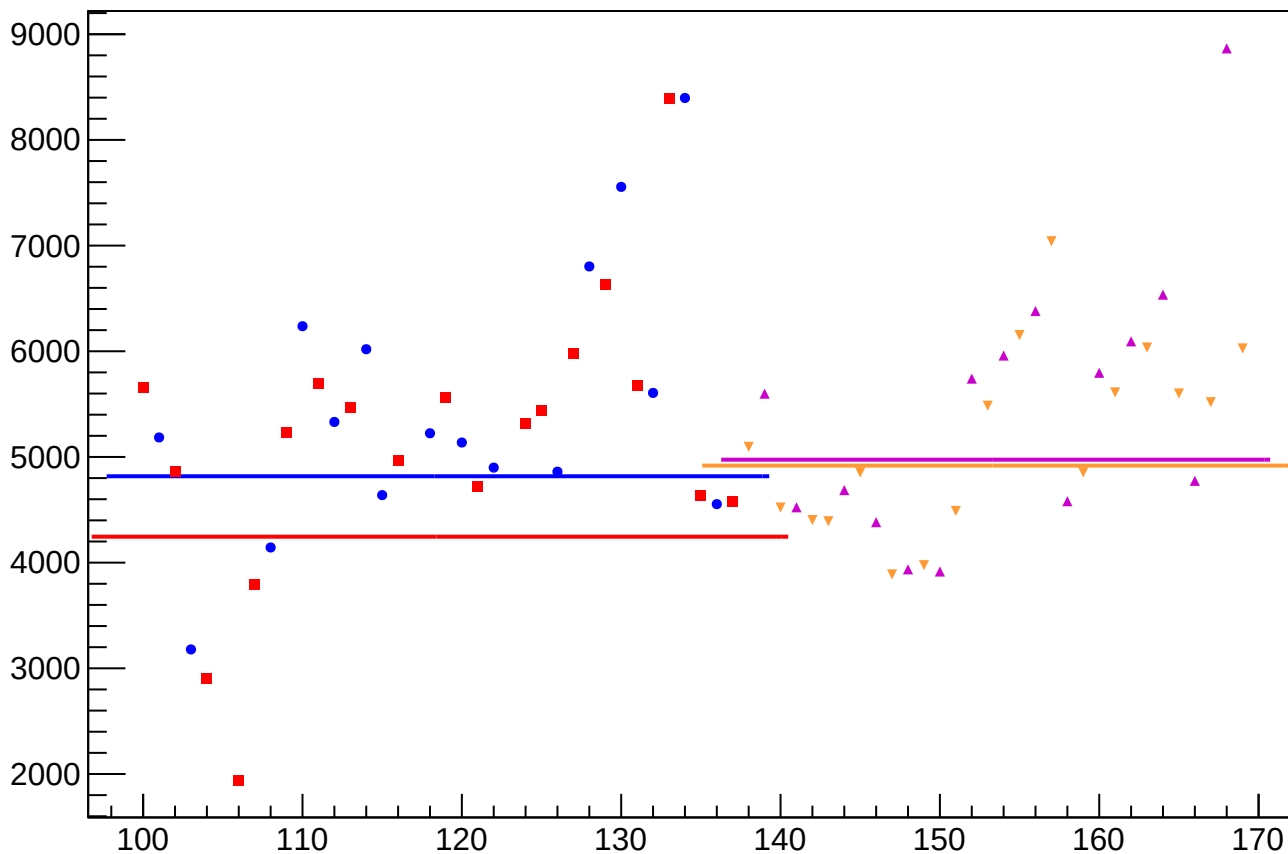
Right: -1151.477 $\pm$ 1238.823 χ^2 /NDF: 29.2/34

In: 310.259 $\pm$ 1138.812 χ^2 /NDF:25.2/30

Out: 349.100 $\pm$ 1058.485 χ^2 /NDF:34.6/35

All: 331.098 $\pm$ 775.306 χ^2 /NDF: 59.8/66

asym_usr_atr2_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 4817.344+/-1.307 χ^2/NDF : 795431.1/15

Left Out: 4918.103+/-0.968 χ^2/NDF : 676658.4/16

Right Out: 4245.533+/-1.180 χ^2/NDF : 1683159.2/18

Left In: 4974.264+/-1.022 χ^2/NDF : 984943.8/14

Left: 4944.649+/-0.703 χ^2/NDF : 1663193.4/31

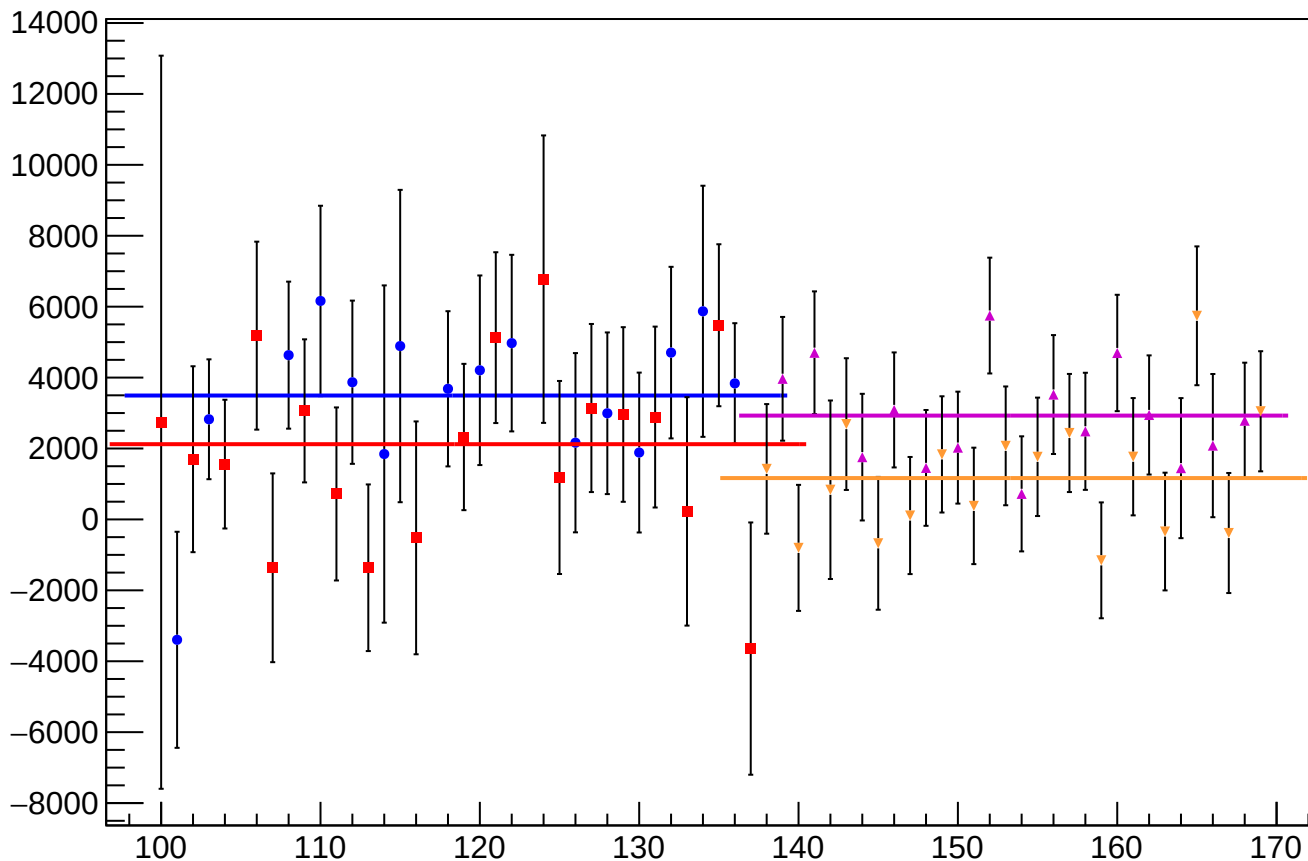
Right: 4502.414+/-0.876 χ^2/NDF : 2584018.5/34

In: 4914.692+/-0.805 χ^2/NDF : 1789318.3/30

Out: 4647.677+/-0.748 χ^2/NDF : 2553946.8/35

All: 4771.436+/-0.548 χ^2/NDF : 4402254.6/66

cor_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3494.046 $\pm$ 601.185 χ^2 /NDF: 8.8/15

Left Out: 1166.053 $\pm$ 422.772 χ^2 /NDF:15.2/16

Right Out: 2121.708 $\pm$ 587.619 χ^2 /NDF: 15.1/18

Left In: 2927.903 $\pm$ 438.106 χ^2 /NDF:9.9/14

Left: 2015.607 $\pm$ 304.222 χ^2 /NDF: 33.5/31

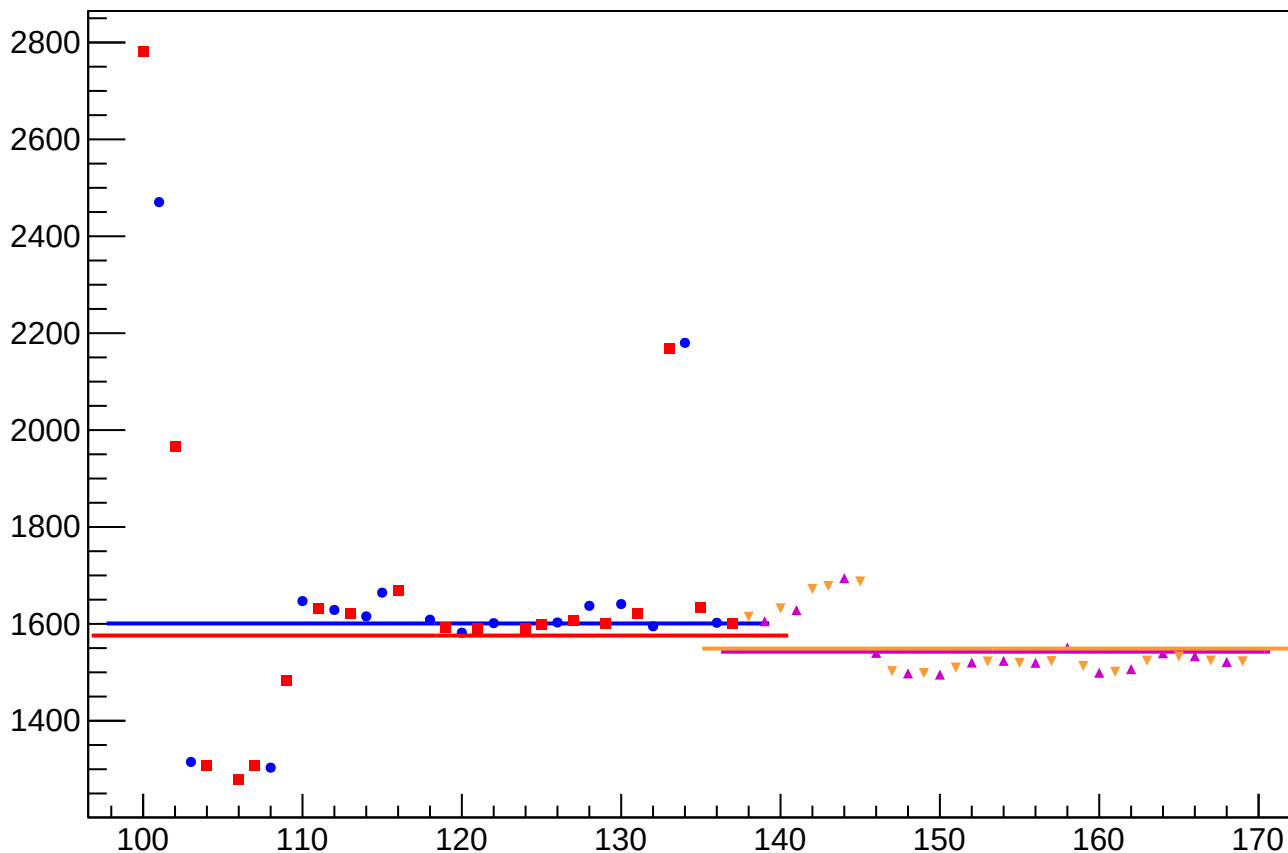
Right: 2792.219 $\pm$ 420.224 χ^2 /NDF: 26.6/34

In: 3124.273 $\pm$ 354.065 χ^2 /NDF:19.3/30

Out: 1492.006 $\pm$ 343.181 χ^2 /NDF:32.1/35

All: 2282.667 $\pm$ 246.424 χ^2 /NDF: 62.3/66

cor_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1600.880 $\pm$ 0.425 χ^2/NDF : 317413.1/15

Left Out: 1549.057 $\pm$ 0.299 χ^2/NDF : 42713.1/16

Right Out: 1575.900 $\pm$ 0.414 χ^2/NDF : 243332.0/18

Left In: 1542.608 $\pm$ 0.310 χ^2/NDF : 29035.9/14

Left: 1545.947 $\pm$ 0.215 χ^2/NDF : 71973.4/31

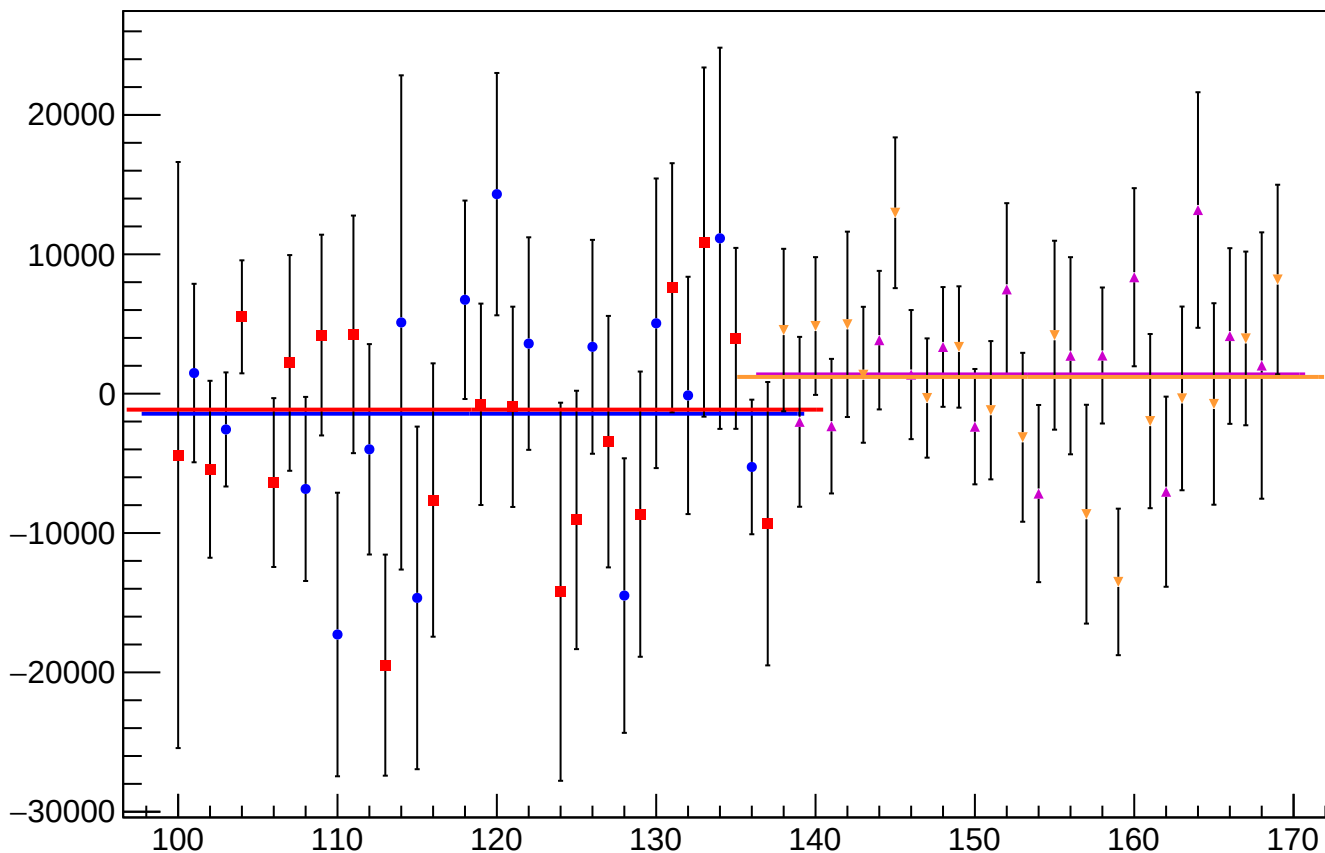
Right: 1588.056 $\pm$ 0.297 χ^2/NDF : 562517.7/34

In: 1562.820 $\pm$ 0.250 χ^2/NDF : 358721.6/30

Out: 1558.260 $\pm$ 0.242 χ^2/NDF : 288809.5/35

All: 1560.466 $\pm$ 0.174 χ^2/NDF : 647702.4/66

asym_usr_atr2_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1437.362 $\pm$ 1848.324 χ^2 /NDF: 13.9/15

Left Out: 1201.461 $\pm$ 1368.869 χ^2 /NDF:18.3/16

Right Out: -1146.174 $\pm$ 1765.384 χ^2 /NDF: 16.3/18

Left In: 1379.668 $\pm$ 1445.866 χ^2 /NDF:9.9/14

Left: 1285.693 $\pm$ 994.042 χ^2 /NDF: 28.2/31

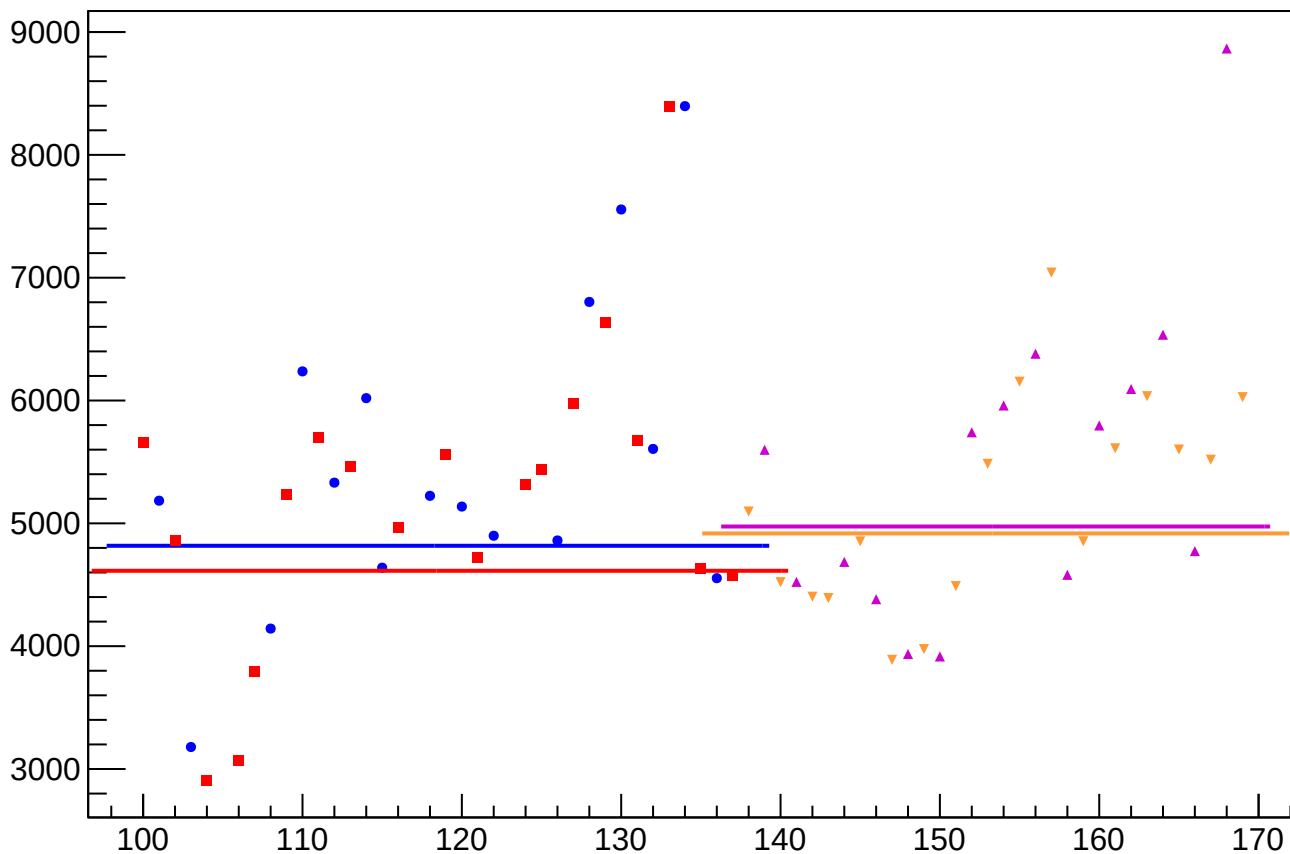
Right: -1285.089 $\pm$ 1276.630 χ^2 /NDF: 30.1/34

In: 310.254 $\pm$ 1138.821 χ^2 /NDF:25.2/30

Out: 319.965 $\pm$ 1081.768 χ^2 /NDF:35.6/35

All: 315.359 $\pm$ 784.320 χ^2 /NDF: 60.9/66

asym_usr_atr2_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 4817.480+/-1.307 χ^2/NDF : 795233.3/15

Left Out: 4918.092+/-0.968 χ^2/NDF : 676664.2/16

Right Out: 4613.851+/-1.248 χ^2/NDF : 977958.2/18

Left In: 4974.264+/-1.022 χ^2/NDF : 984944.5/14

Left: 4944.642+/-0.703 χ^2/NDF : 1663200.6/31

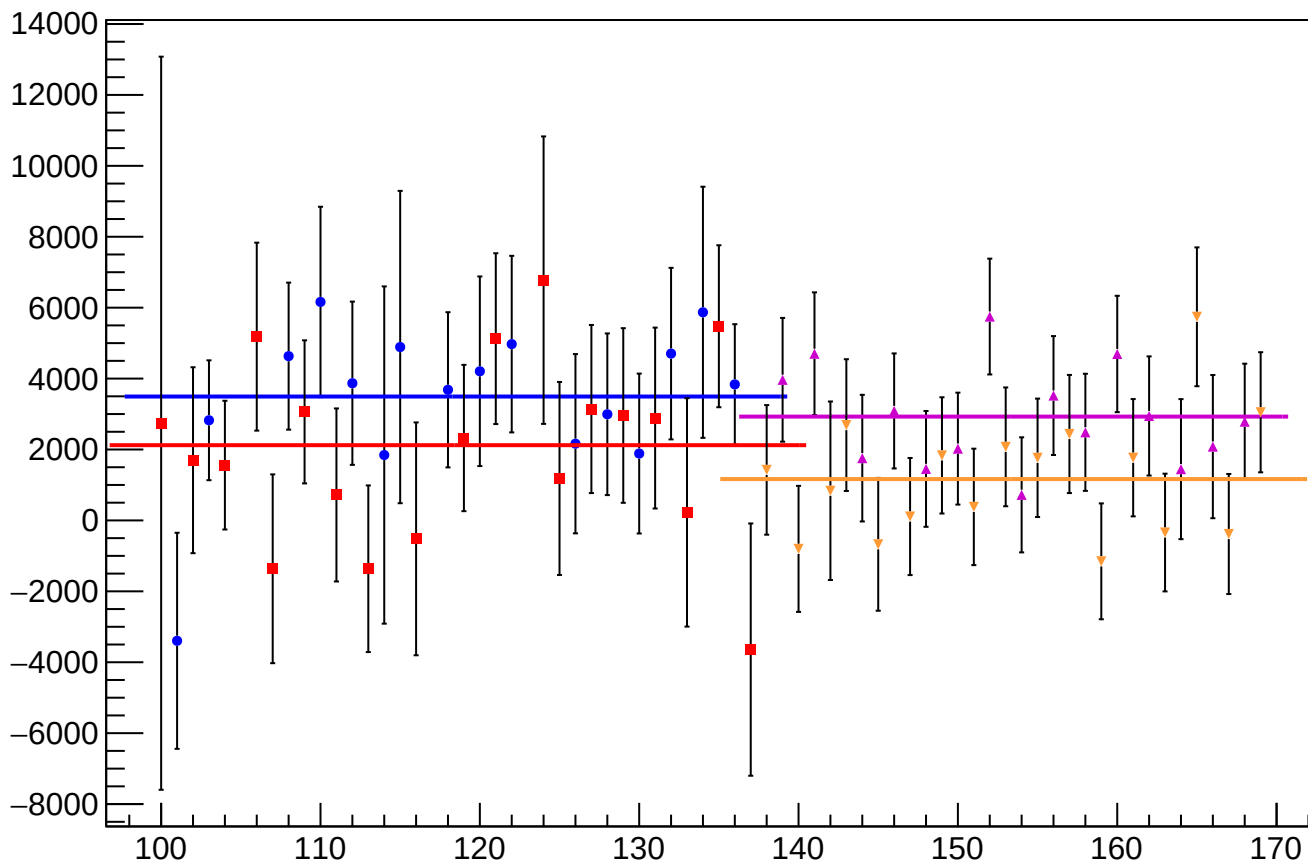
Right: 4710.994+/-0.903 χ^2/NDF : 1785885.7/34

In: 4914.745+/-0.805 χ^2/NDF : 1789105.4/30

Out: 4803.854+/-0.765 χ^2/NDF : 1691718.8/35

All: 4856.452+/-0.555 χ^2/NDF : 3490792.6/66

eigen_cor_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3494.046 $\pm$ 601.185 χ^2/NDF : 8.8/15

Left Out: 1166.053 $\pm$ 422.772 χ^2/NDF : 15.2/16

Right Out: 2121.708 $\pm$ 587.619 χ^2/NDF : 15.1/18

Left In: 2927.903 $\pm$ 438.106 χ^2/NDF : 9.9/14

Left: 2015.607 $\pm$ 304.222 χ^2/NDF : 33.5/31

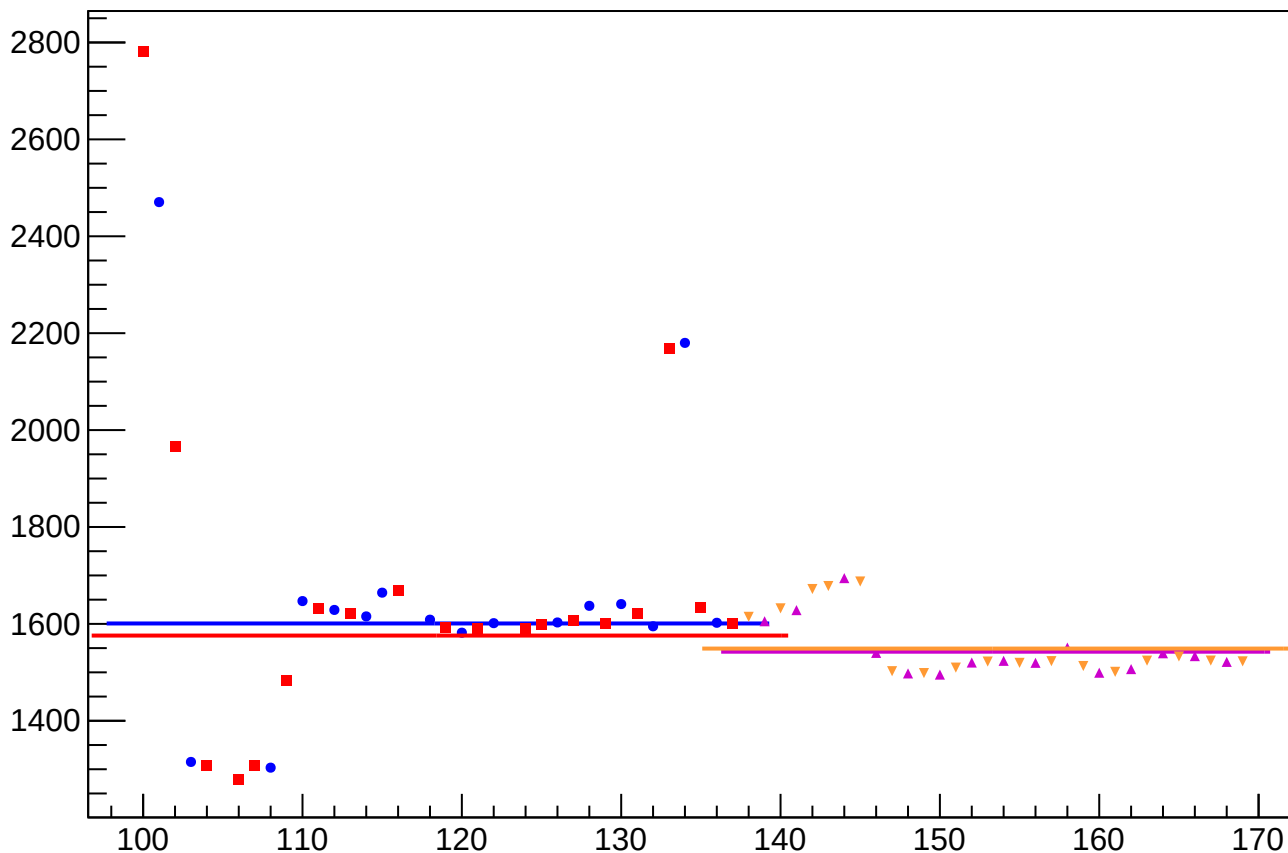
Right: 2792.219 $\pm$ 420.224 χ^2/NDF : 26.6/34

In: 3124.273 $\pm$ 354.065 χ^2/NDF : 19.3/30

Out: 1492.006 $\pm$ 343.181 χ^2/NDF : 32.1/35

All: 2282.667 $\pm$ 246.424 χ^2/NDF : 62.3/66

eigen_cor_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1600.880 +/- 0.425 χ^2/NDF : 317413.1/15

Left Out: 1549.057 +/- 0.299 χ^2/NDF : 42713.1/16

Right Out: 1575.900 +/- 0.414 χ^2/NDF : 243332.0/18

Left In: 1542.608 +/- 0.310 χ^2/NDF : 29035.9/14

Left: 1545.947 +/- 0.215 χ^2/NDF : 71973.4/31

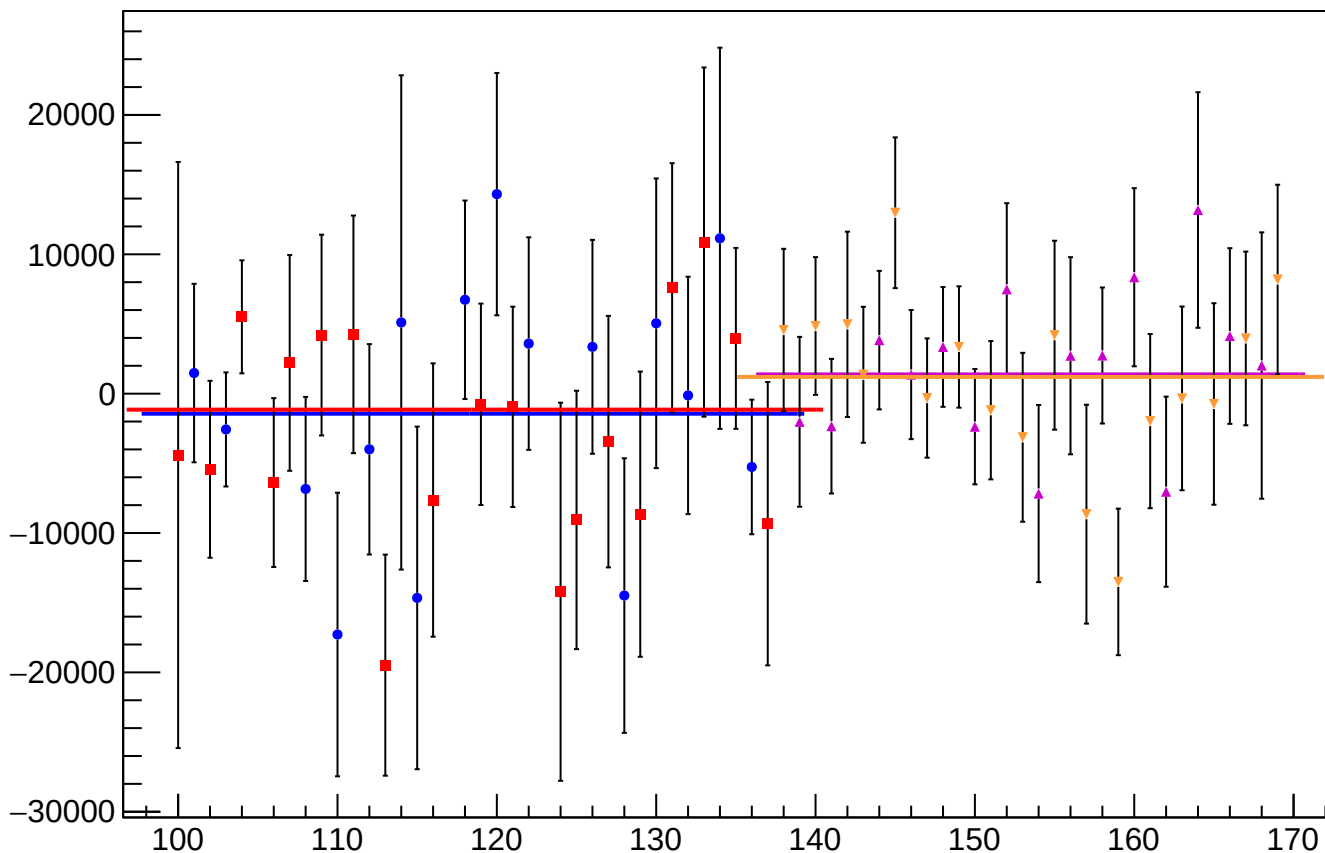
Right: 1588.056 +/- 0.297 χ^2/NDF : 562517.7/34

In: 1562.820 +/- 0.250 χ^2/NDF : 358721.6/30

Out: 1558.260 +/- 0.242 χ^2/NDF : 288809.5/35

All: 1560.466 +/- 0.174 χ^2/NDF : 647702.4/66

asym_usr_atr2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1437.362 $\pm$ 1848.324 χ^2 /NDF: 13.9/15

Left Out: 1201.461 $\pm$ 1368.869 χ^2 /NDF:18.3/16

Right Out: -1146.174 $\pm$ 1765.384 χ^2 /NDF: 16.3/18

Left In: 1379.668 $\pm$ 1445.866 χ^2 /NDF:9.9/14

Left: 1285.693 $\pm$ 994.042 χ^2 /NDF: 28.2/31

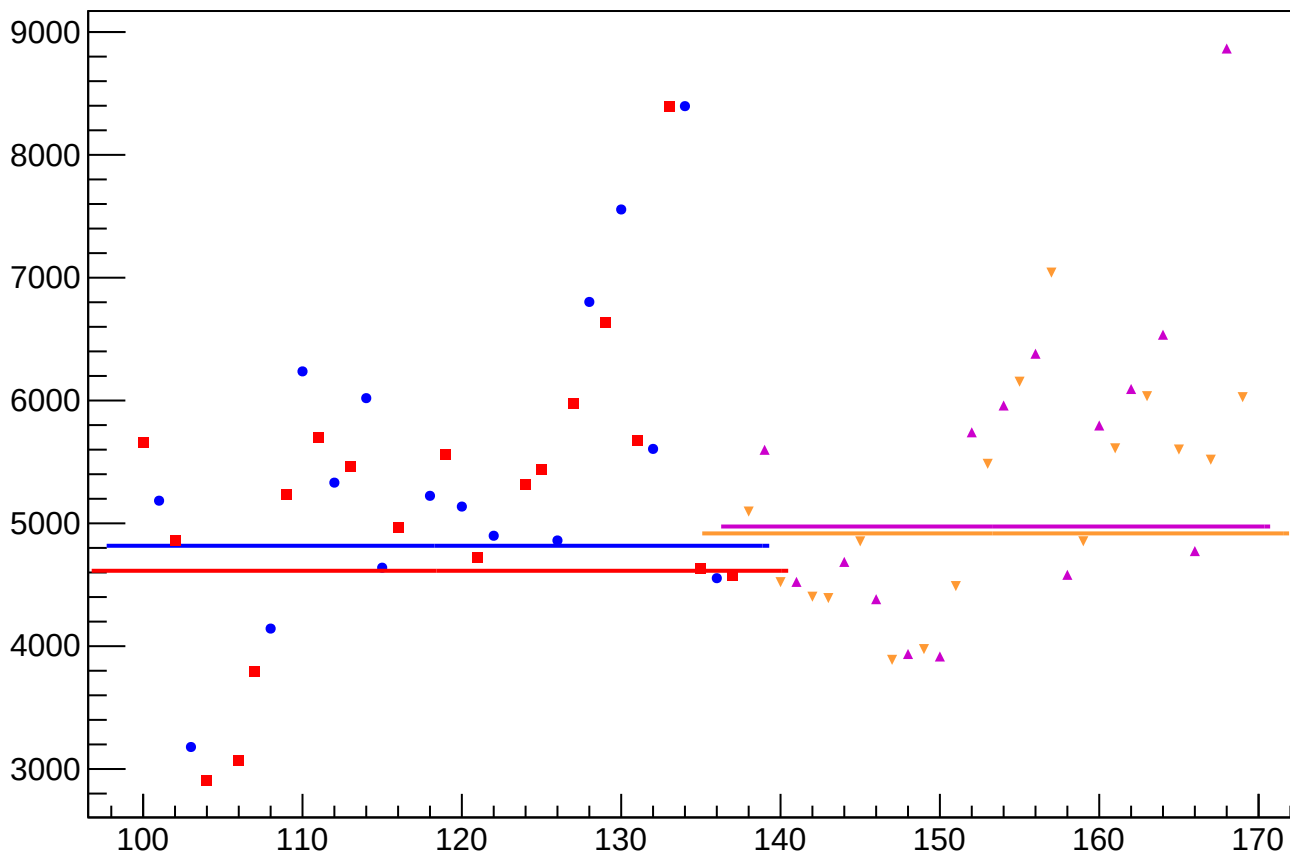
Right: -1285.089 $\pm$ 1276.630 χ^2 /NDF: 30.1/34

In: 310.254 $\pm$ 1138.821 χ^2 /NDF:25.2/30

Out: 319.965 $\pm$ 1081.768 χ^2 /NDF:35.6/35

All: 315.359 $\pm$ 784.320 χ^2 /NDF: 60.9/66

asym_usr_atr2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 4817.480+/-1.307 χ^2/NDF : 795233.3/15

Left Out: 4918.092+/-0.968 χ^2/NDF : 676664.2/16

Right Out: 4613.851+/-1.248 χ^2/NDF : 977958.2/18

Left In: 4974.264+/-1.022 χ^2/NDF : 984944.5/14

Left: 4944.642+/-0.703 χ^2/NDF : 1663200.6/31

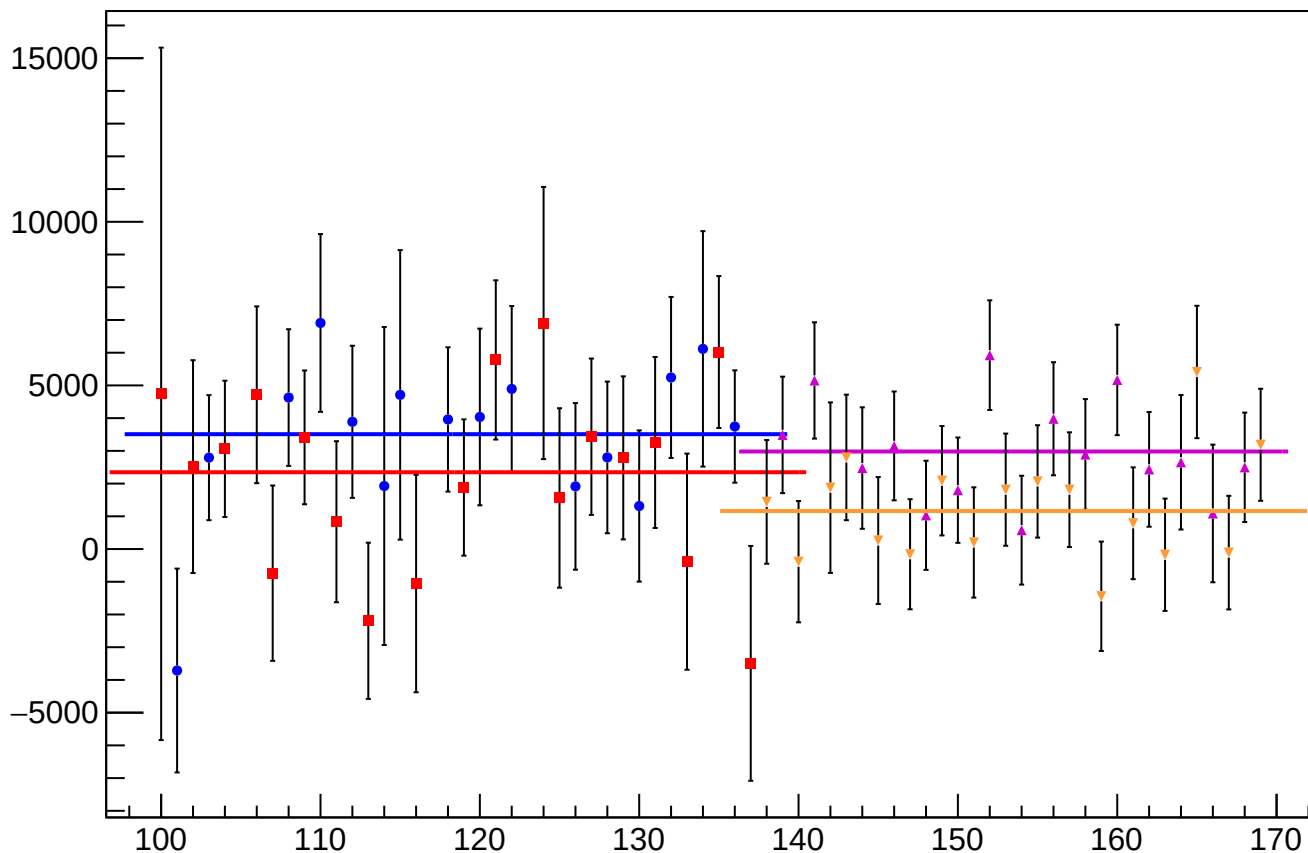
Right: 4710.994+/-0.903 χ^2/NDF : 1785885.7/34

In: 4914.745+/-0.805 χ^2/NDF : 1789105.4/30

Out: 4803.854+/-0.765 χ^2/NDF : 1691718.8/35

All: 4856.452+/-0.555 χ^2/NDF : 3490792.6/66

dit_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3509.507 $\pm$ 616.724 χ^2 /NDF: 10.4/15

Left Out: 1161.440 $\pm$ 435.096 χ^2 /NDF:13.0/16

Right Out: 2346.859 $\pm$ 607.502 χ^2 /NDF: 17.1/18

Left In: 2980.604 $\pm$ 450.396 χ^2 /NDF:11.8/14

Left: 2039.599 $\pm$ 312.929 χ^2 /NDF: 33.2/31

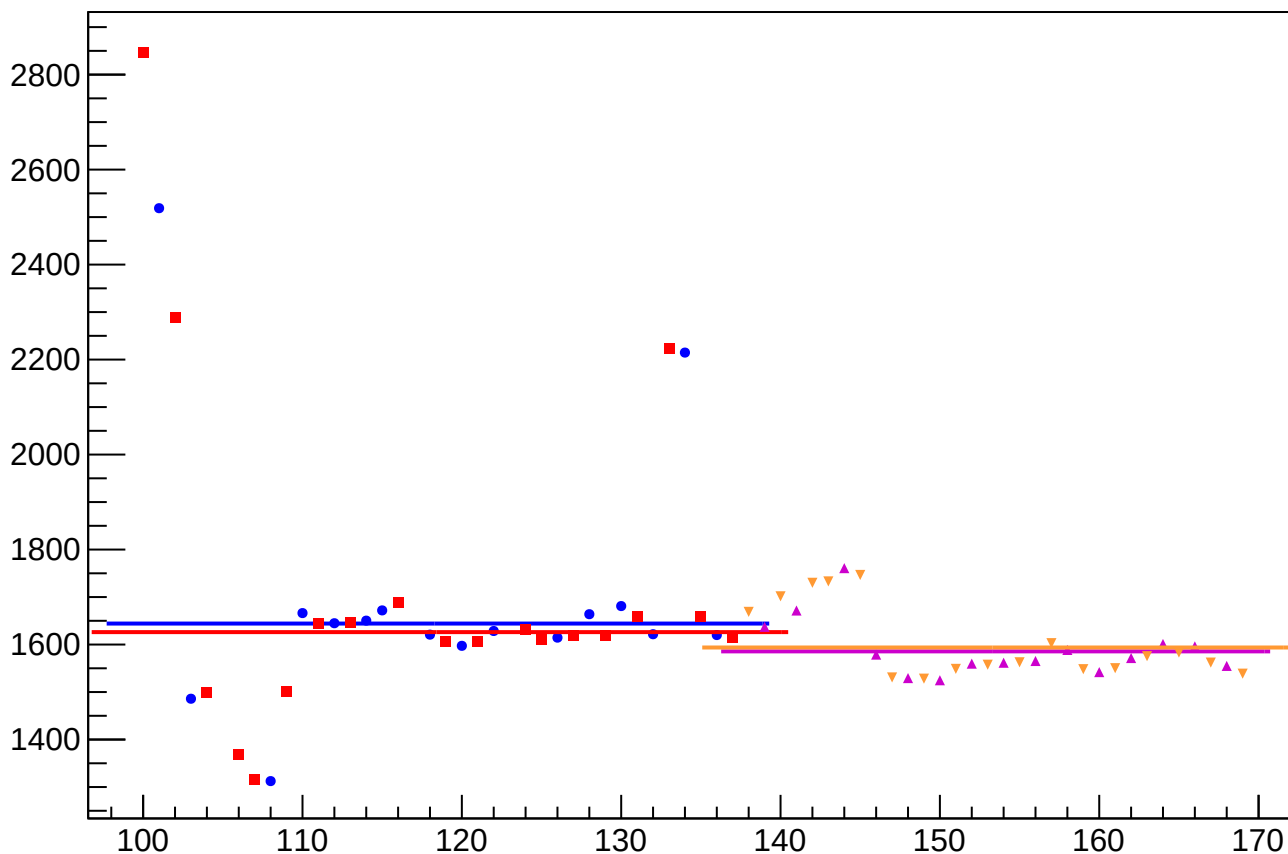
Right: 2919.425 $\pm$ 432.793 χ^2 /NDF: 29.3/34

In: 3164.572 $\pm$ 363.726 χ^2 /NDF:22.6/30

Out: 1563.344 $\pm$ 353.731 χ^2 /NDF:32.6/35

All: 2341.654 $\pm$ 253.586 χ^2 /NDF: 65.2/66

dit_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1644.198 $\pm$ 0.436 χ^2 /NDF: 274817.9/15

Left Out: 1593.784 $\pm$ 0.308 χ^2 /NDF: 53060.4/16

Right Out: 1626.174 $\pm$ 0.429 χ^2 /NDF: 237639.1/18

Left In: 1585.633 $\pm$ 0.318 χ^2 /NDF: 32836.5/14

Left: 1589.849 $\pm$ 0.221 χ^2 /NDF: 86235.7/31

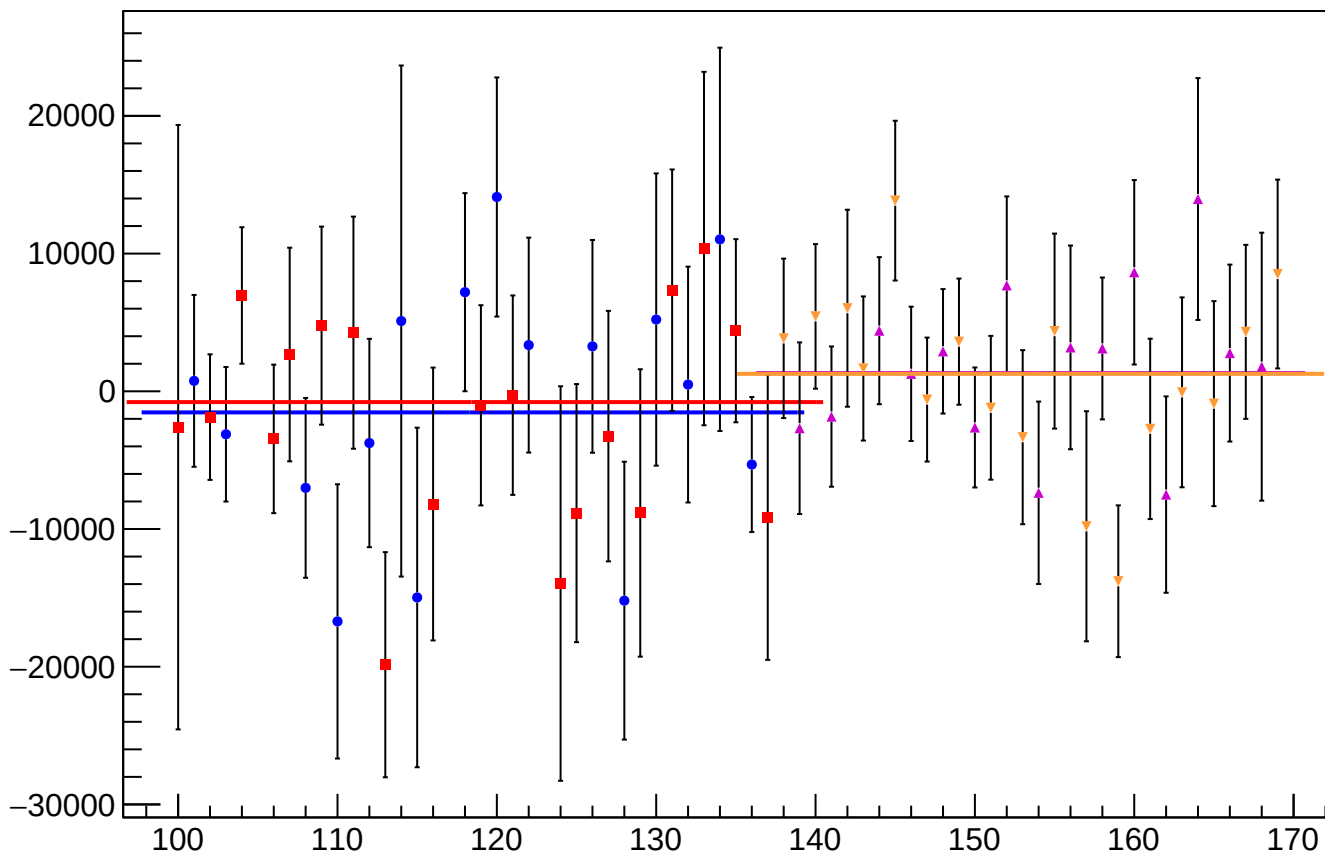
Right: 1635.043 $\pm$ 0.306 χ^2 /NDF: 513324.8/34

In: 1606.004 $\pm$ 0.257 χ^2 /NDF: 319416.7/30

Out: 1604.779 $\pm$ 0.250 χ^2 /NDF: 294461.7/35

All: 1605.374 $\pm$ 0.179 χ^2 /NDF: 613890.1/66

asym_usr_atr2_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1532.110 $\pm$ 1913.799 χ^2 /NDF: 13.9/15

Left Out: 1268.805 $\pm$ 1433.563 χ^2 /NDF: 18.4/16

Right Out: -784.235 $\pm$ 1748.566 χ^2 /NDF: 15.0/18

Left In: 1321.765 $\pm$ 1515.198 χ^2 /NDF: 9.8/14

Left: 1293.820 $\pm$ 1041.346 χ^2 /NDF: 28.2/31

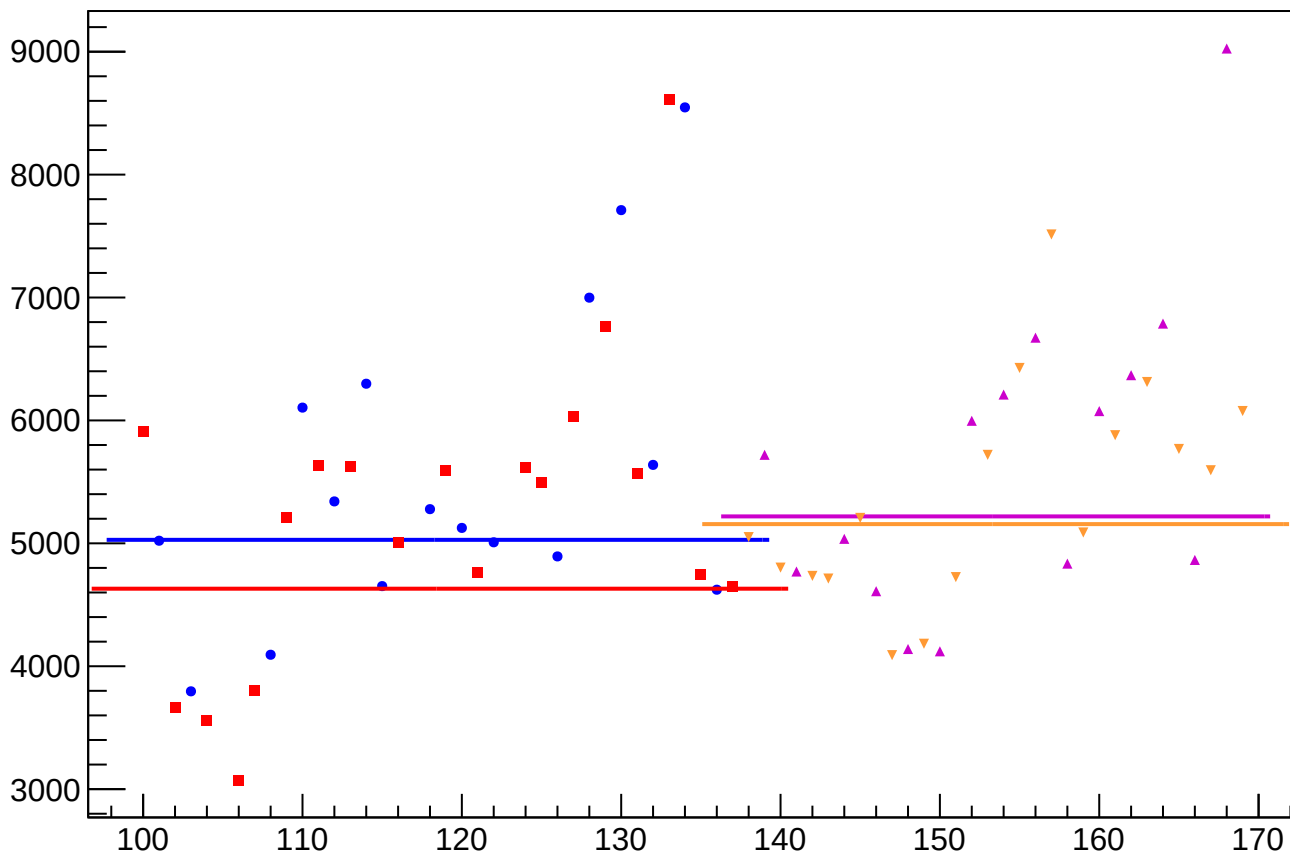
Right: -1124.500 $\pm$ 1290.893 χ^2 /NDF: 29.0/34

In: 222.151 $\pm$ 1187.952 χ^2 /NDF: 25.0/30

Out: 443.546 $\pm$ 1108.609 χ^2 /NDF: 34.3/35

All: 340.488 $\pm$ 810.504 χ^2 /NDF: 59.4/66

asym_usr_atr2_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 5028.449+/-1.353 χ^2/NDF : 565469.4/15

Left Out: 5156.401+/-1.014 χ^2/NDF : 626930.5/16

Right Out: 4630.901+/-1.236 χ^2/NDF : 863515.0/18

Left In: 5219.126+/-1.071 χ^2/NDF : 925876.3/14

Left: 5186.028+/-0.736 χ^2/NDF : 1554615.4/31

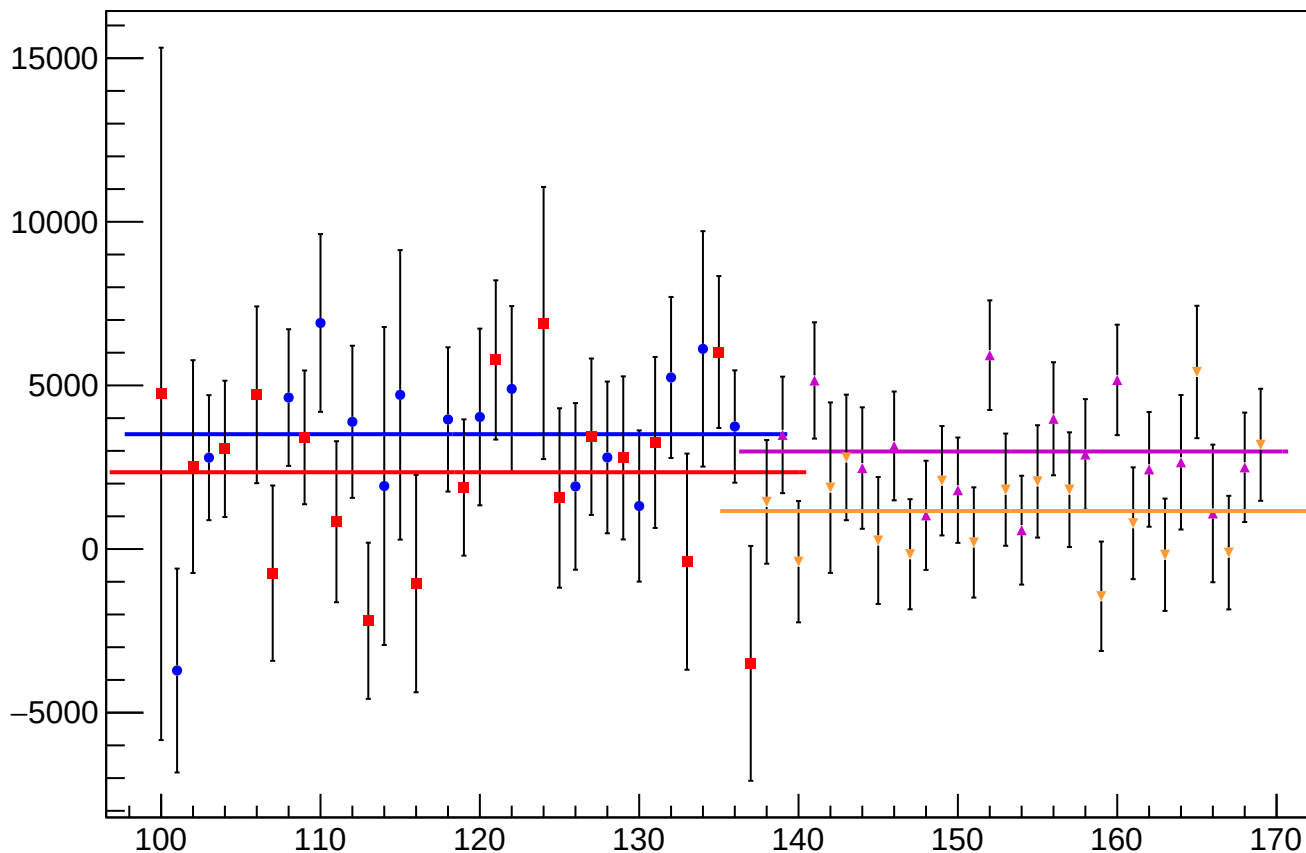
Right: 4811.776+/-0.913 χ^2/NDF : 1476020.7/34

In: 5145.657+/-0.840 χ^2/NDF : 1503549.4/30

Out: 4945.166+/-0.784 χ^2/NDF : 1598473.0/35

All: 5038.493+/-0.573 χ^2/NDF : 3132471.7/66

eigen_dit_asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 3509.509+/-616.724 χ^2/NDF : 10.4/15

Left Out: 1161.430+/-435.096 χ^2/NDF :13.0/16

Right Out: 2346.865+/-607.502 χ^2/NDF : 17.1/18

Left In: 2980.608+/-450.396 χ^2/NDF :11.8/14

Left: 2039.595+/-312.929 χ^2/NDF : 33.2/31

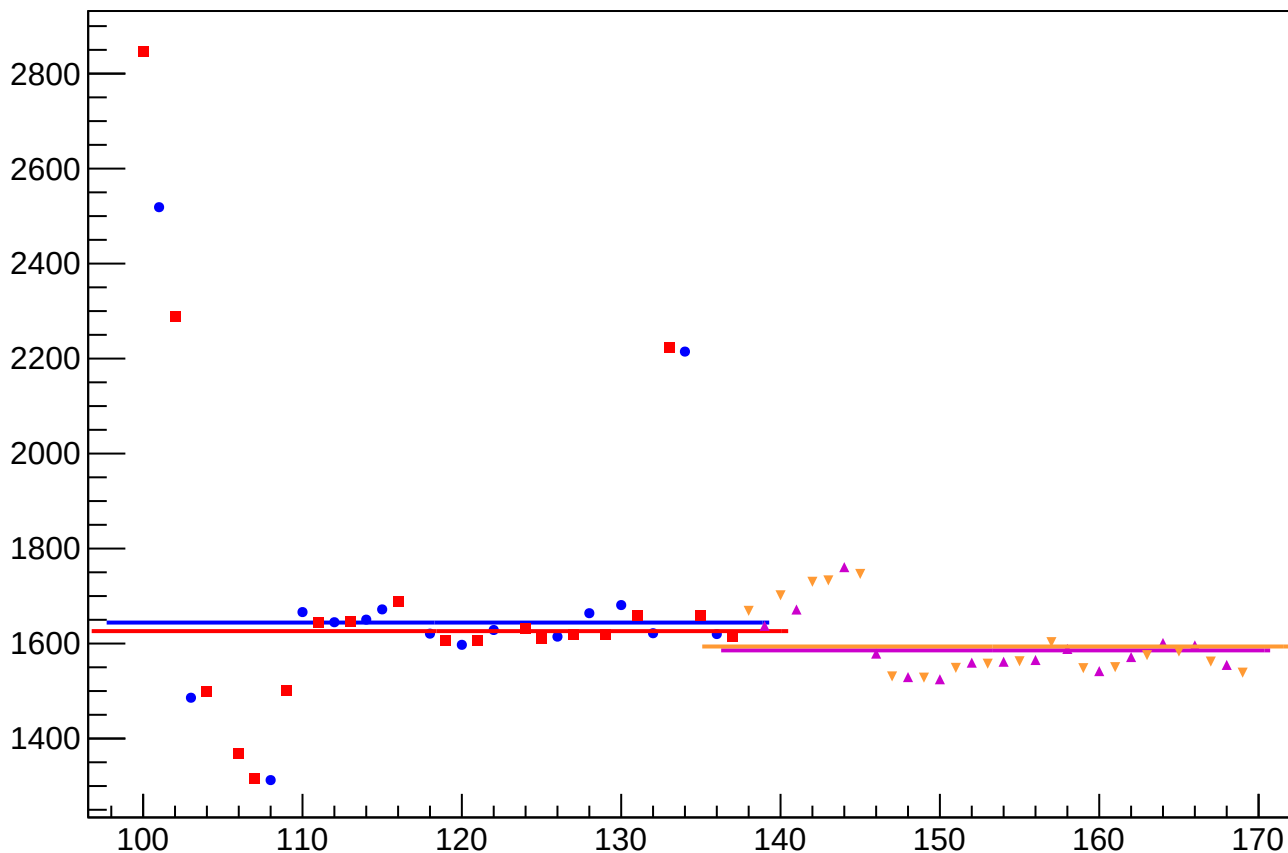
Right: 2919.429+/-432.792 χ^2/NDF : 29.3/34

In: 3164.576+/-363.727 χ^2/NDF :22.6/30

Out: 1563.340+/-353.731 χ^2/NDF :32.6/35

All: 2341.654+/-253.586 χ^2/NDF : 65.2/66

eigen_dit_asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 1644.198 $\pm$ 0.436 χ^2 /NDF: 274818.1/15

Left Out: 1593.786 $\pm$ 0.308 χ^2 /NDF: 53060.4/16

Right Out: 1626.174 $\pm$ 0.429 χ^2 /NDF: 237638.8/18

Left In: 1585.634 $\pm$ 0.318 χ^2 /NDF: 32836.3/14

Left: 1589.851 $\pm$ 0.221 χ^2 /NDF: 86235.6/31

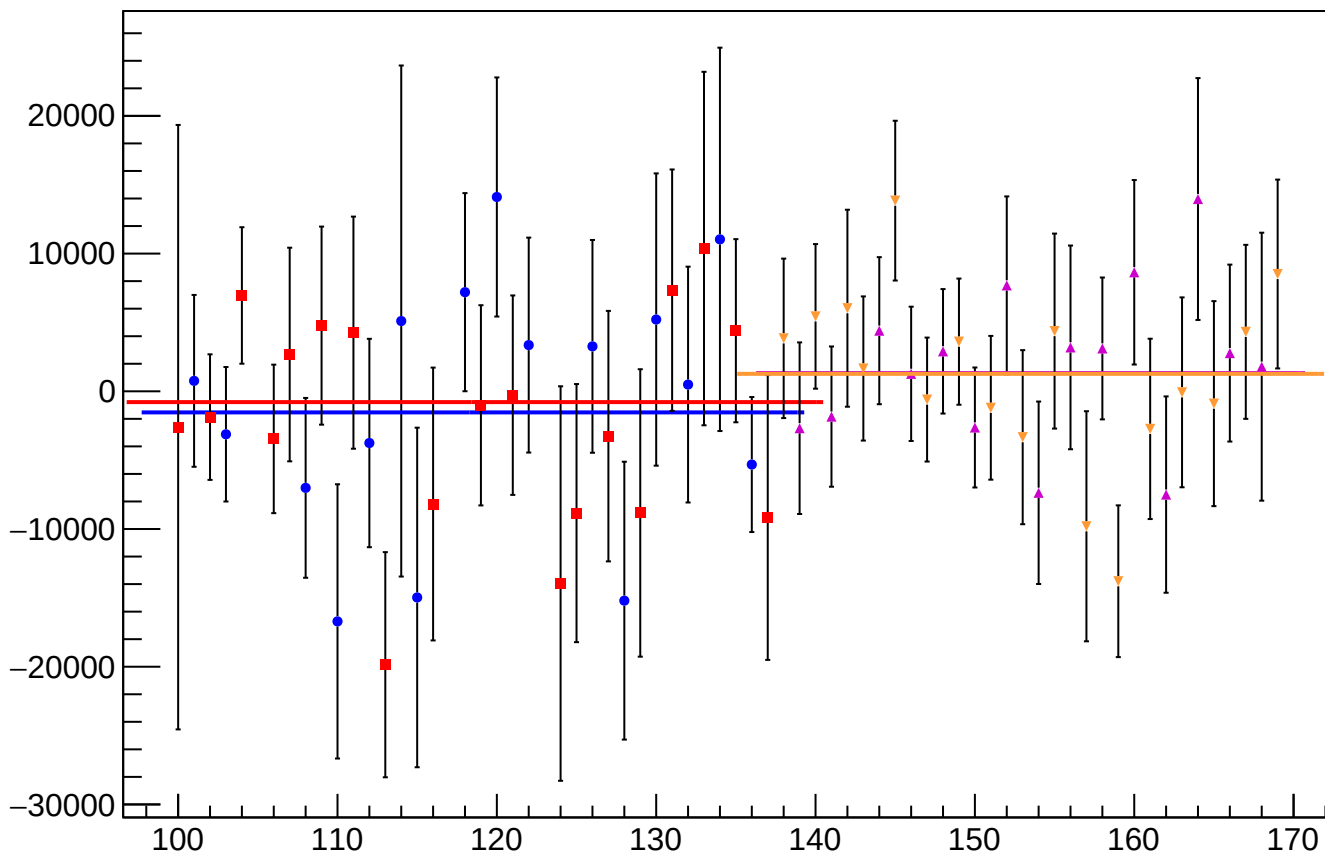
Right: 1635.042 $\pm$ 0.306 χ^2 /NDF: 513324.5/34

In: 1606.004 $\pm$ 0.257 χ^2 /NDF: 319415.9/30

Out: 1604.779 $\pm$ 0.250 χ^2 /NDF: 294461.0/35

All: 1605.375 $\pm$ 0.179 χ^2 /NDF: 613888.6/66

asym_usr_atr2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1532.095 $\pm$ 1913.796 χ^2 /NDF: 13.9/15

Left Out: 1268.801 $\pm$ 1433.565 χ^2 /NDF:18.4/16

Right Out: -784.236 $\pm$ 1748.563 χ^2 /NDF: 15.0/18

Left In: 1321.764 $\pm$ 1515.201 χ^2 /NDF:9.8/14

Left: 1293.817 $\pm$ 1041.348 χ^2 /NDF: 28.2/31

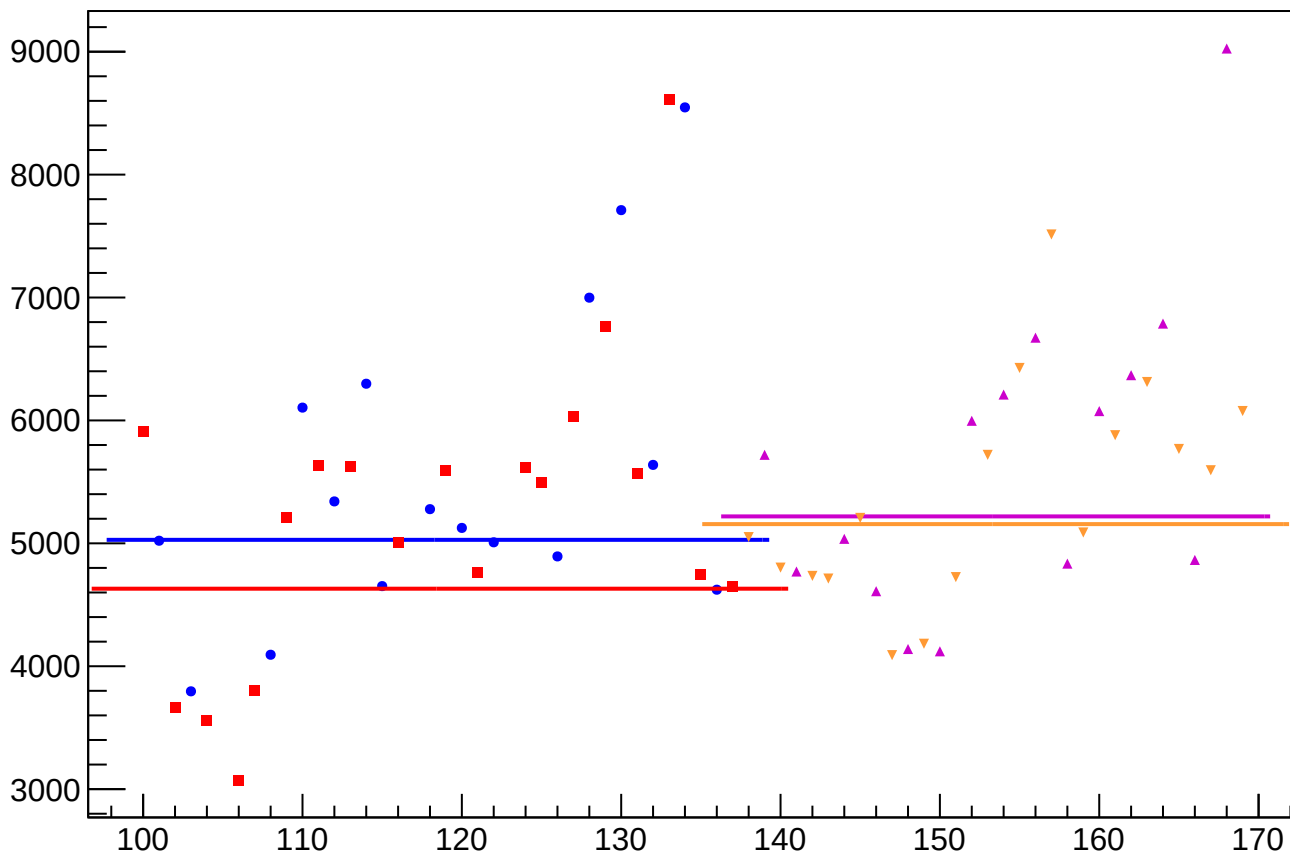
Right: -1124.493 $\pm$ 1290.891 χ^2 /NDF: 29.0/34

In: 222.152 $\pm$ 1187.953 χ^2 /NDF:25.0/30

Out: 443.540 $\pm$ 1108.610 χ^2 /NDF:34.3/35

All: 340.485 $\pm$ 810.505 χ^2 /NDF: 59.4/66

asym_usr_atr2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 5028.443 $\pm$ 1.353 χ^2 /NDF: 565463.1/15

Left Out: 5156.409 $\pm$ 1.014 χ^2 /NDF: 626931.3/16

Right Out: 4630.895 $\pm$ 1.236 χ^2 /NDF: 863509.0/18

Left In: 5219.135 $\pm$ 1.071 χ^2 /NDF: 925877.4/14

Left: 5186.037 $\pm$ 0.736 χ^2 /NDF: 1554617.2/31

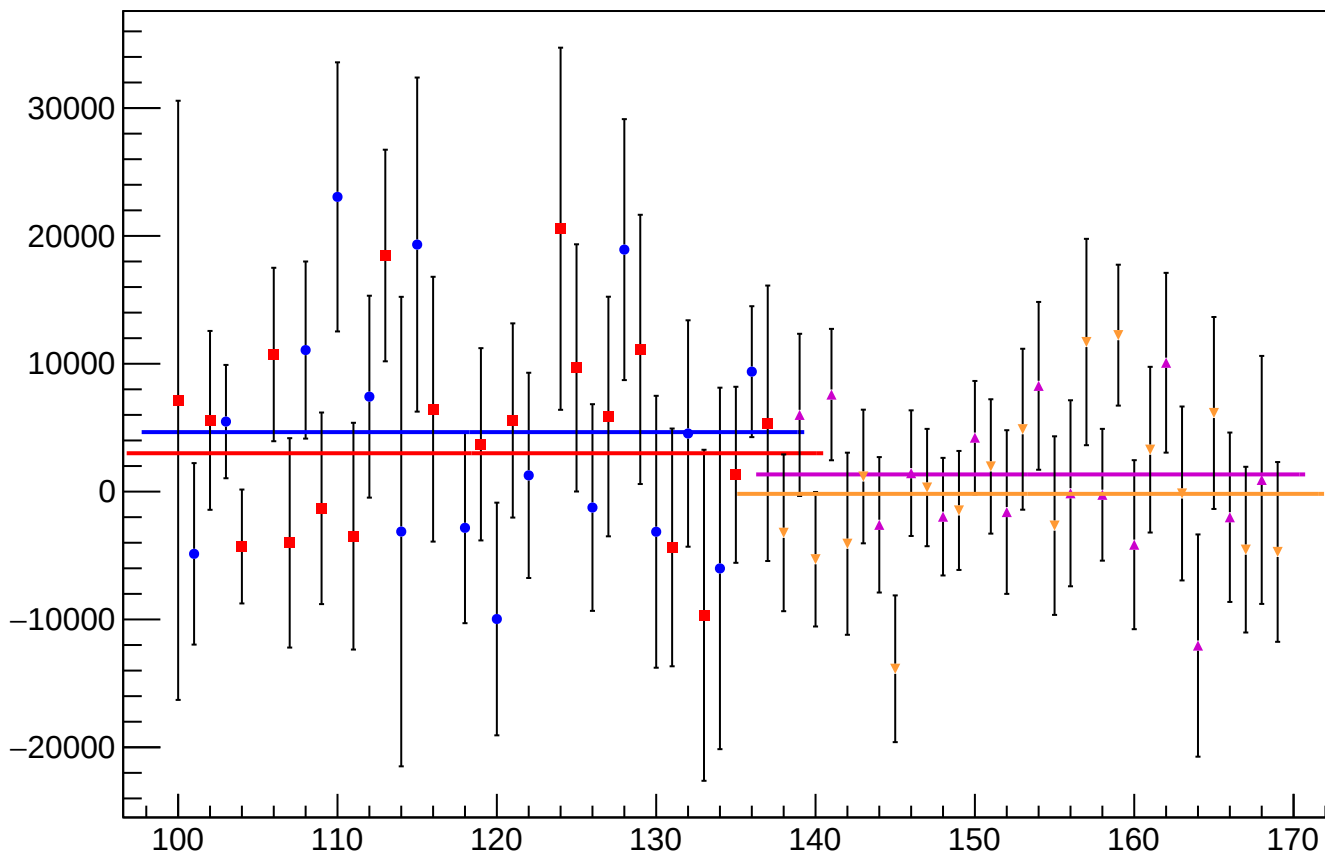
Right: 4811.769 $\pm$ 0.913 χ^2 /NDF: 1476008.6/34

In: 5145.660 $\pm$ 0.840 χ^2 /NDF: 1503546.2/30

Out: 4945.168 $\pm$ 0.784 χ^2 /NDF: 1598474.1/35

All: 5038.495 $\pm$ 0.573 χ^2 /NDF: 3132469.9/66

asym_usr_atr2_avg_mean vs Slug, Sign Corrected



Right In: 4653.137+/-1958.496 χ^2/NDF : 15.5/15

Left Out: -176.410+/-1442.652 χ^2/NDF : 17.4/16

Right Out: 3000.980+/-1882.821 χ^2/NDF : 13.9/18

Left In: 1344.634+/-1521.682 χ^2/NDF : 9.8/14

Left: 543.589+/-1046.933 χ^2/NDF : 27.7/31

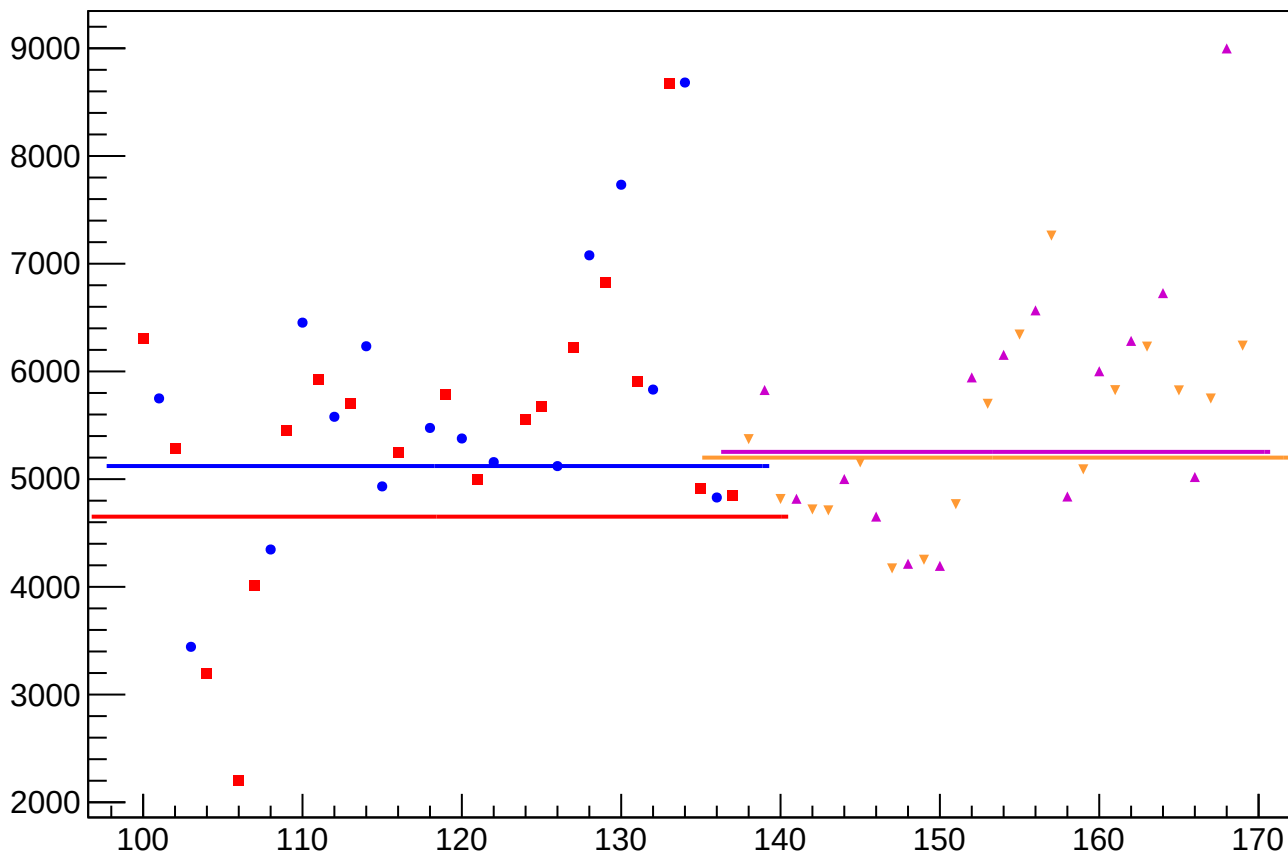
Right: 3794.523+/-1357.320 χ^2/NDF : 29.8/34

In: 2590.060+/-1201.616 χ^2/NDF : 27.1/30

Out: 998.959+/-1145.146 χ^2/NDF : 33.0/35

All: 1756.244+/-828.985 χ^2/NDF : 61.1/66

asym_usr_atr2_avg_rms vs Slug, Sign Corrected



Right In: 5121.644+/-1.385 χ^2/NDF : 720370.1/15

Left Out: 5199.882+/-1.020 χ^2/NDF : 569848.2/16

Right Out: 4651.727+/-1.280 χ^2/NDF : 1344868.0/18

Left In: 5253.155+/-1.076 χ^2/NDF : 847213.6/14

Left: 5225.099+/-0.740 χ^2/NDF : 1418352.8/31

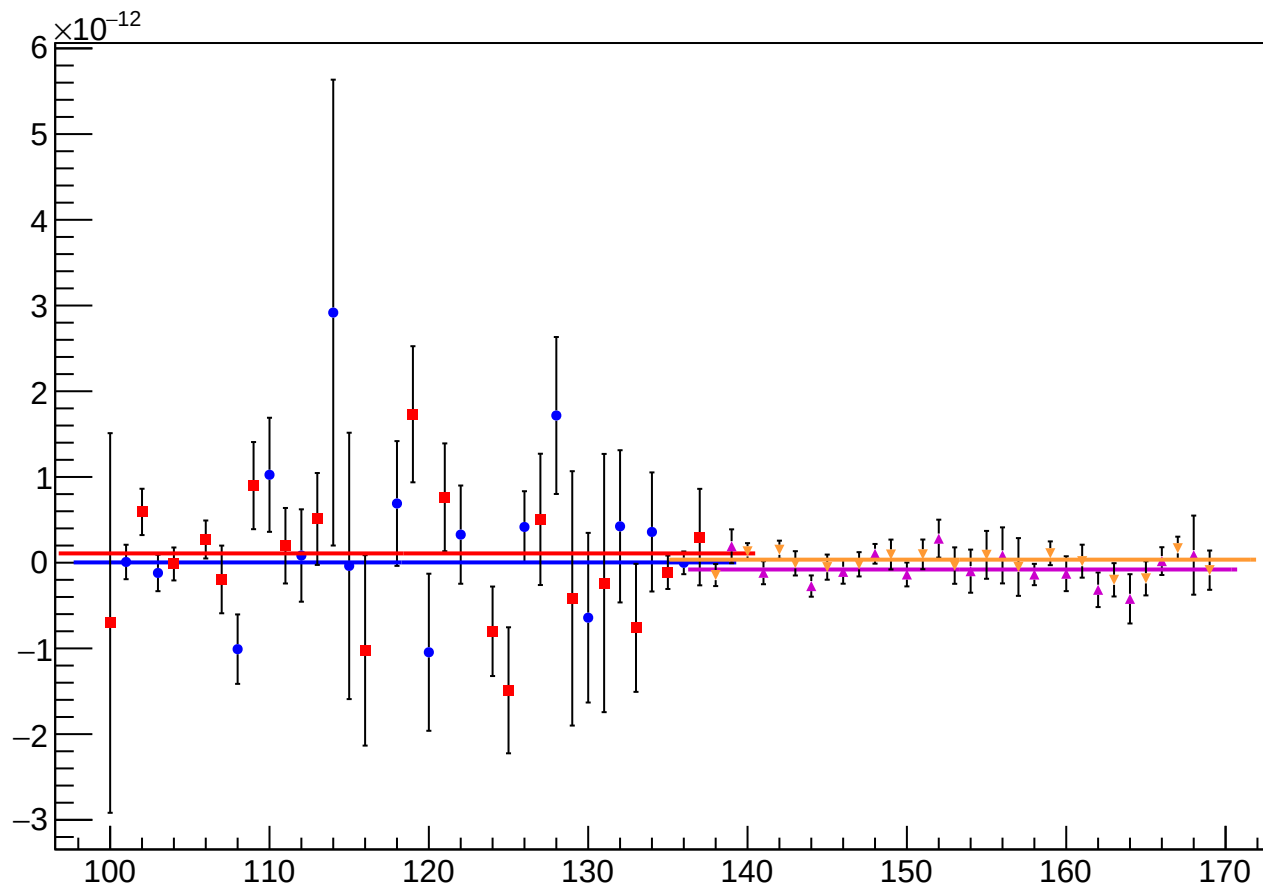
Right: 4868.287+/-0.940 χ^2/NDF : 2127316.1/34

In: 5203.650+/-0.850 χ^2/NDF : 1573207.1/30

Out: 4987.032+/-0.798 χ^2/NDF : 2026836.3/35

All: 5088.532+/-0.582 χ^2/NDF : 3634584.3/66

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 9.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 25.1/18

Left In: -0.000+/-0.000 χ^2/NDF : 13.6/14

Left: -0.000+/-0.000 χ^2/NDF : 27.1/31

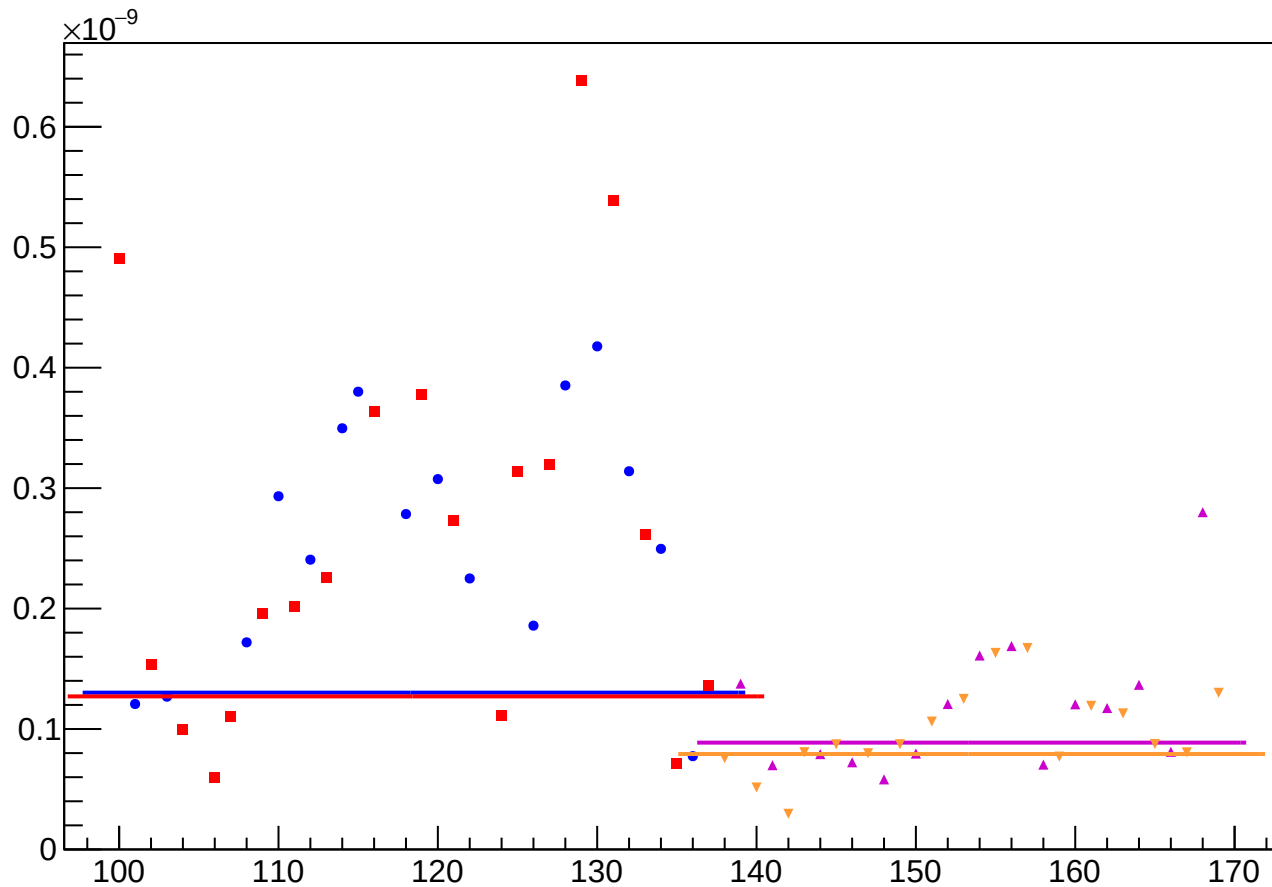
Right: 0.000+/-0.000 χ^2/NDF : 43.9/34

In: -0.000+/-0.000 χ^2/NDF : 32.4/30

Out: 0.000+/-0.000 χ^2/NDF : 35.1/35

All: -0.000+/-0.000 χ^2/NDF : 72.0/66

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1329229.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :1323859.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1734331.2/18

Left In: 0.000+/-0.000 χ^2/NDF :1215693.7/14

Left: 0.000+/-0.000 χ^2/NDF : 2594804.2/31

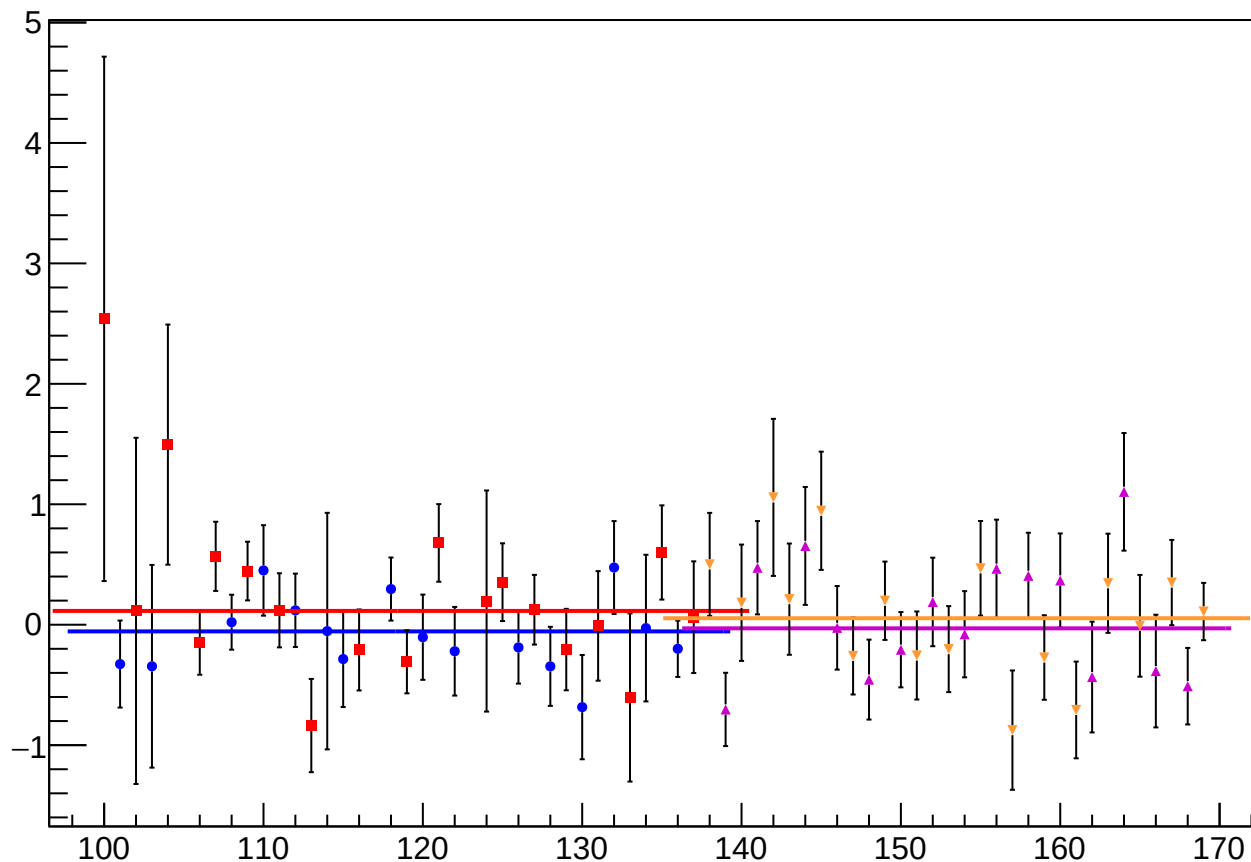
Right: 0.000+/-0.000 χ^2/NDF : 3064818.5/34

In: 0.000+/-0.000 χ^2/NDF :2913918.6/30

Out: 0.000+/-0.000 χ^2/NDF :3544472.8/35

All: 0.000+/-0.000 χ^2/NDF : 6543195.6/66

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.055 ± 0.085 χ^2/NDF : 10.7/15

Left Out: 0.054 ± 0.092 χ^2/NDF : 19.7/16

Right Out: 0.114 ± 0.083 χ^2/NDF : 25.2/18

Left In: -0.030 ± 0.096 χ^2/NDF : 23.9/14

Left: 0.014 ± 0.067 χ^2/NDF : 44.0/31

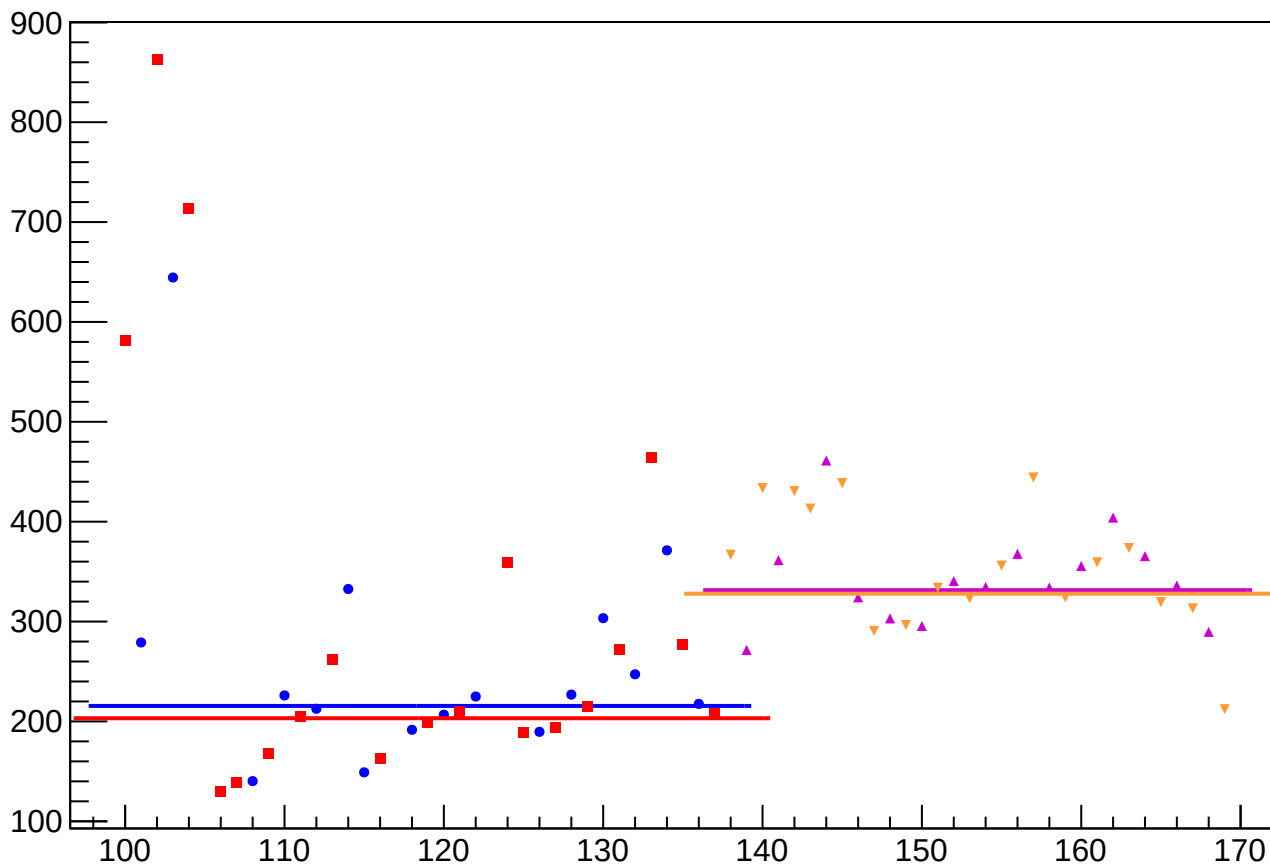
Right: 0.032 ± 0.060 χ^2/NDF : 37.9/34

In: -0.044 ± 0.064 χ^2/NDF : 34.6/30

Out: 0.087 ± 0.062 χ^2/NDF : 45.2/35

All: 0.024 ± 0.044 χ^2/NDF : 82.0/66

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 215.519+/-0.060 χ^2/NDF : 1148727.3/15

Left Out: 327.900+/-0.065 χ^2/NDF : 1012596.4/16

Right Out: 203.207+/-0.059 χ^2/NDF : 1835552.6/18

Left In: 331.417+/-0.068 χ^2/NDF : 391326.5/14

Left: 329.587+/-0.047 χ^2/NDF : 1405317.2/31

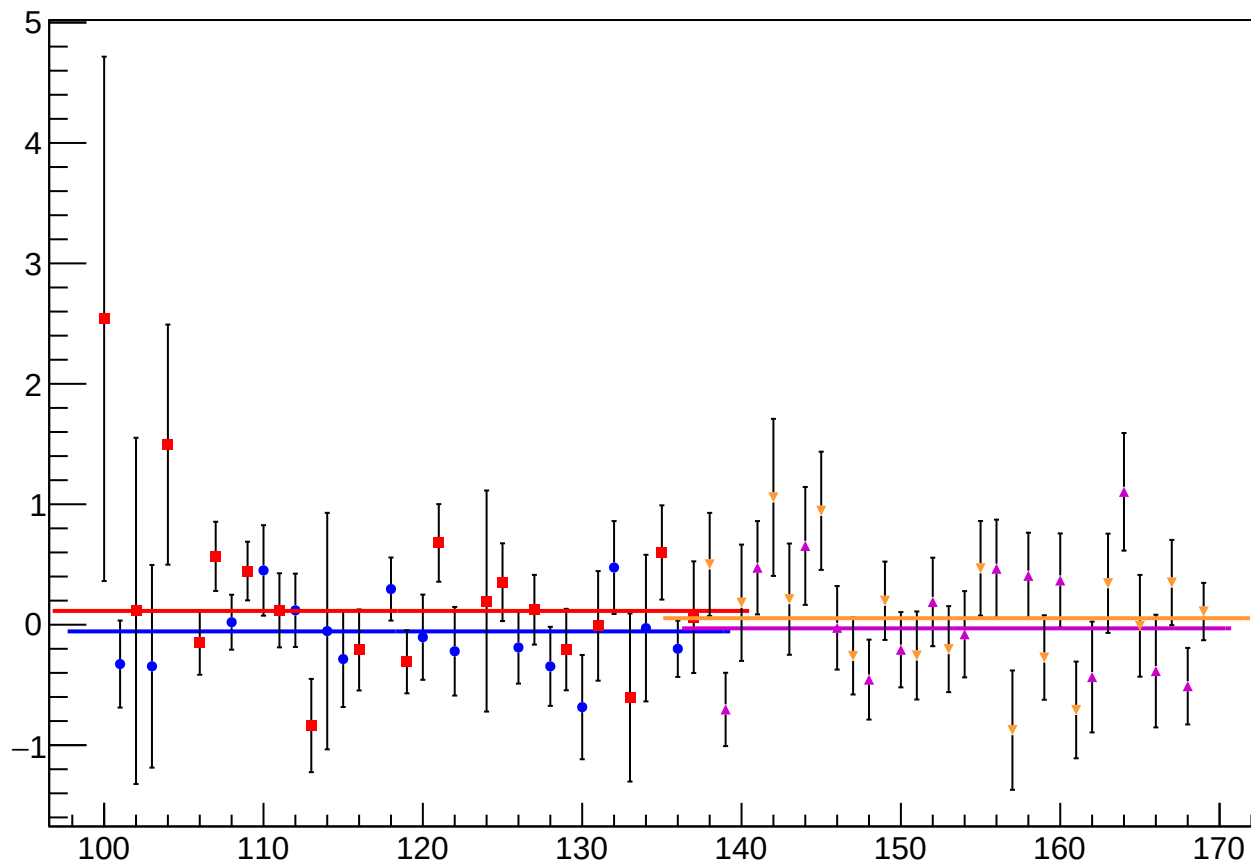
Right: 209.199+/-0.042 χ^2/NDF : 3005585.2/34

In: 266.701+/-0.045 χ^2/NDF : 3164100.9/30

Out: 259.147+/-0.044 χ^2/NDF : 4862700.2/35

All: 262.799+/-0.031 χ^2/NDF : 8041251.6/66

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.055 ± 0.085 χ^2/NDF : 10.7/15

Left Out: 0.054 ± 0.092 χ^2/NDF : 19.7/16

Right Out: 0.114 ± 0.083 χ^2/NDF : 25.2/18

Left In: -0.030 ± 0.096 χ^2/NDF : 23.9/14

Left: 0.014 ± 0.067 χ^2/NDF : 44.0/31

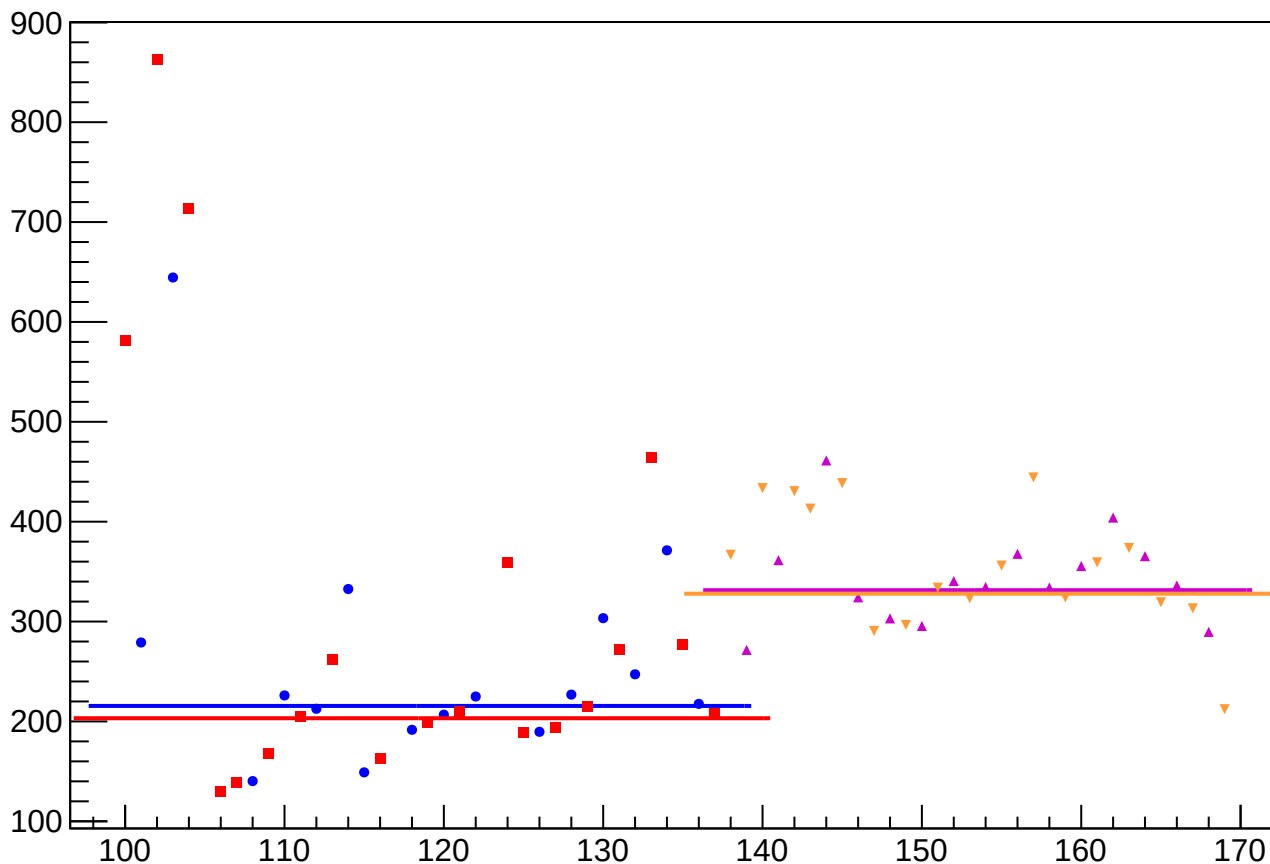
Right: 0.032 ± 0.060 χ^2/NDF : 37.9/34

In: -0.044 ± 0.064 χ^2/NDF : 34.6/30

Out: 0.087 ± 0.062 χ^2/NDF : 45.2/35

All: 0.024 ± 0.044 χ^2/NDF : 82.0/66

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 215.519 $\pm$ 0.060 χ^2 /NDF: 1148727.3/15

Left Out: 327.900 $\pm$ 0.065 χ^2 /NDF: 1012596.4/16

Right Out: 203.207 $\pm$ 0.059 χ^2 /NDF: 1835552.6/18

Left In: 331.417 $\pm$ 0.068 χ^2 /NDF: 391326.5/14

Left: 329.587 $\pm$ 0.047 χ^2 /NDF: 1405317.2/31

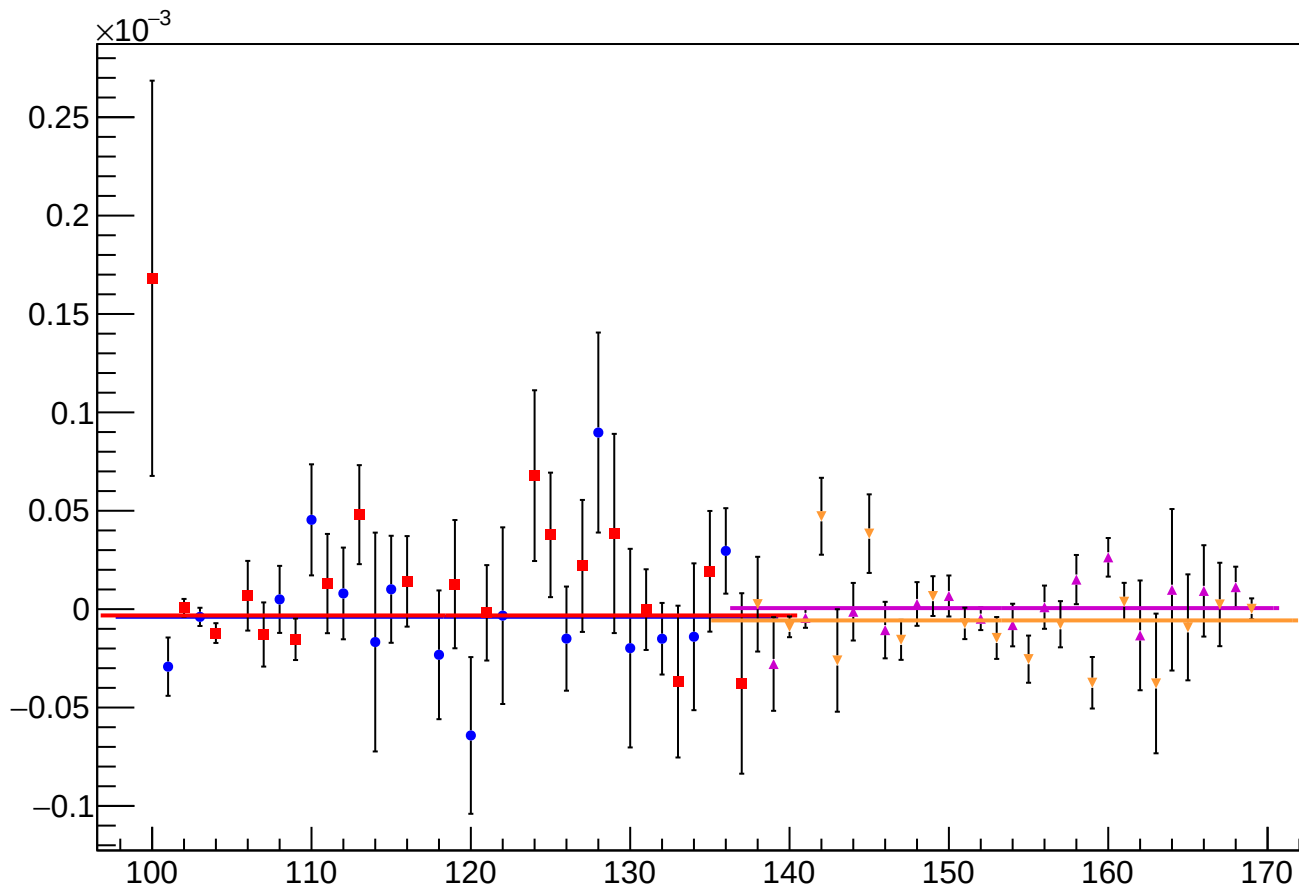
Right: 209.199 $\pm$ 0.042 χ^2 /NDF: 3005585.2/34

In: 266.701 $\pm$ 0.045 χ^2 /NDF: 3164100.9/30

Out: 259.147 $\pm$ 0.044 χ^2 /NDF: 4862700.2/35

All: 262.799 $\pm$ 0.031 χ^2 /NDF: 8041251.6/66

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 16.0/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 28.2/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 21.6/18

Left In: 0.000 ± 0.000 χ^2/NDF : 14.7/14

Left: -0.000 ± 0.000 χ^2/NDF : 45.9/31

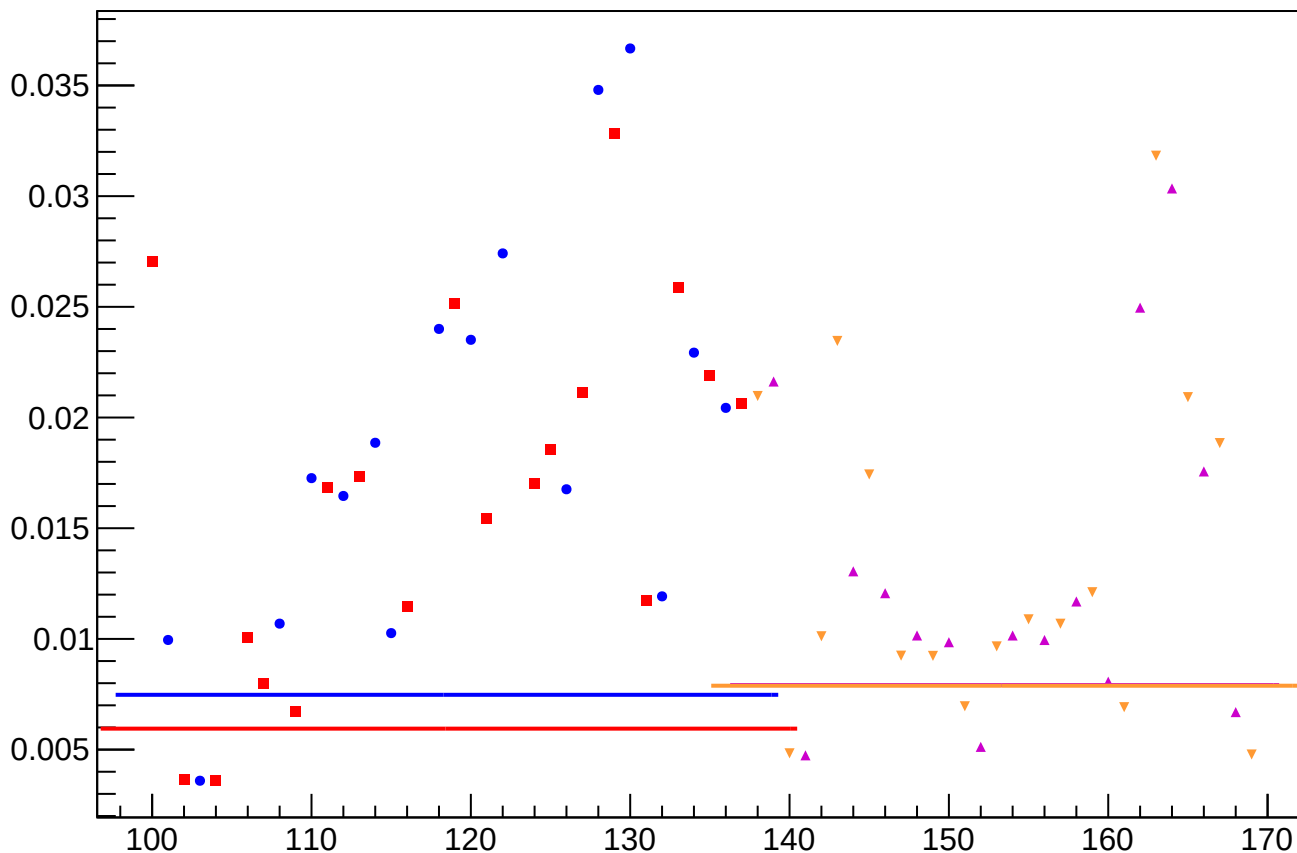
Right: -0.000 ± 0.000 χ^2/NDF : 37.6/34

In: -0.000 ± 0.000 χ^2/NDF : 31.5/30

Out: -0.000 ± 0.000 χ^2/NDF : 50.3/35

All: -0.000 ± 0.000 χ^2/NDF : 83.5/66

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000

χ^2/NDF : 6076199.5/15

Left Out: 0.008+/-0.000

χ^2/NDF :5675245.9/16

Right Out: 0.006+/-0.000

χ^2/NDF : 5934015.2/18

Left In: 0.008+/-0.000

χ^2/NDF :4538875.9/14

Left: 0.008+/-0.000

χ^2/NDF : 10214248.3/31

Right: 0.007+/-0.000

χ^2/NDF : 12215563.8/34

In: 0.008+/-0.000

χ^2/NDF :10633260.7/30

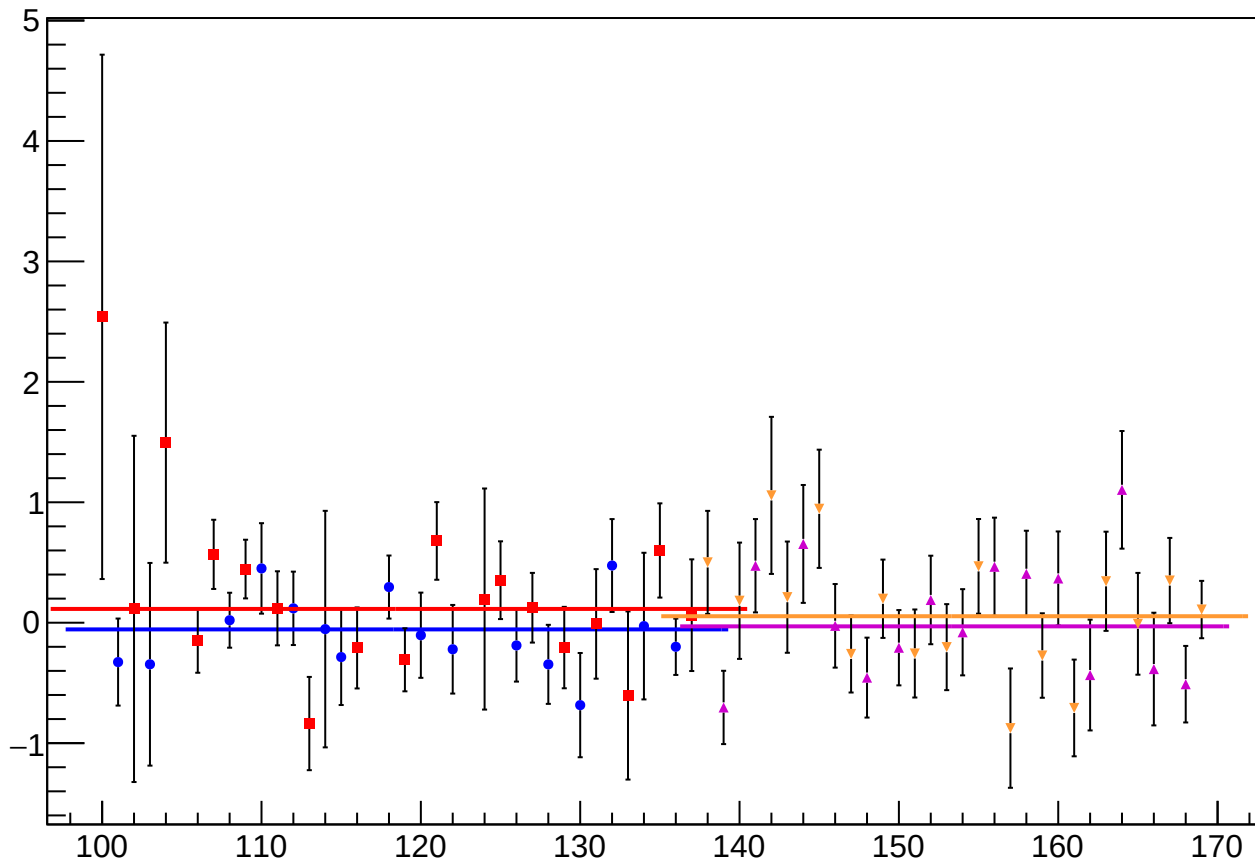
Out: 0.007+/-0.000

χ^2/NDF :12121423.3/35

All: 0.007+/-0.000

χ^2/NDF : 22879118.8/66

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.055 ± 0.085 χ^2/NDF : 10.7/15

Left Out: 0.054 ± 0.092 χ^2/NDF : 19.7/16

Right Out: 0.114 ± 0.083 χ^2/NDF : 25.2/18

Left In: -0.030 ± 0.096 χ^2/NDF : 23.9/14

Left: 0.014 ± 0.067 χ^2/NDF : 44.0/31

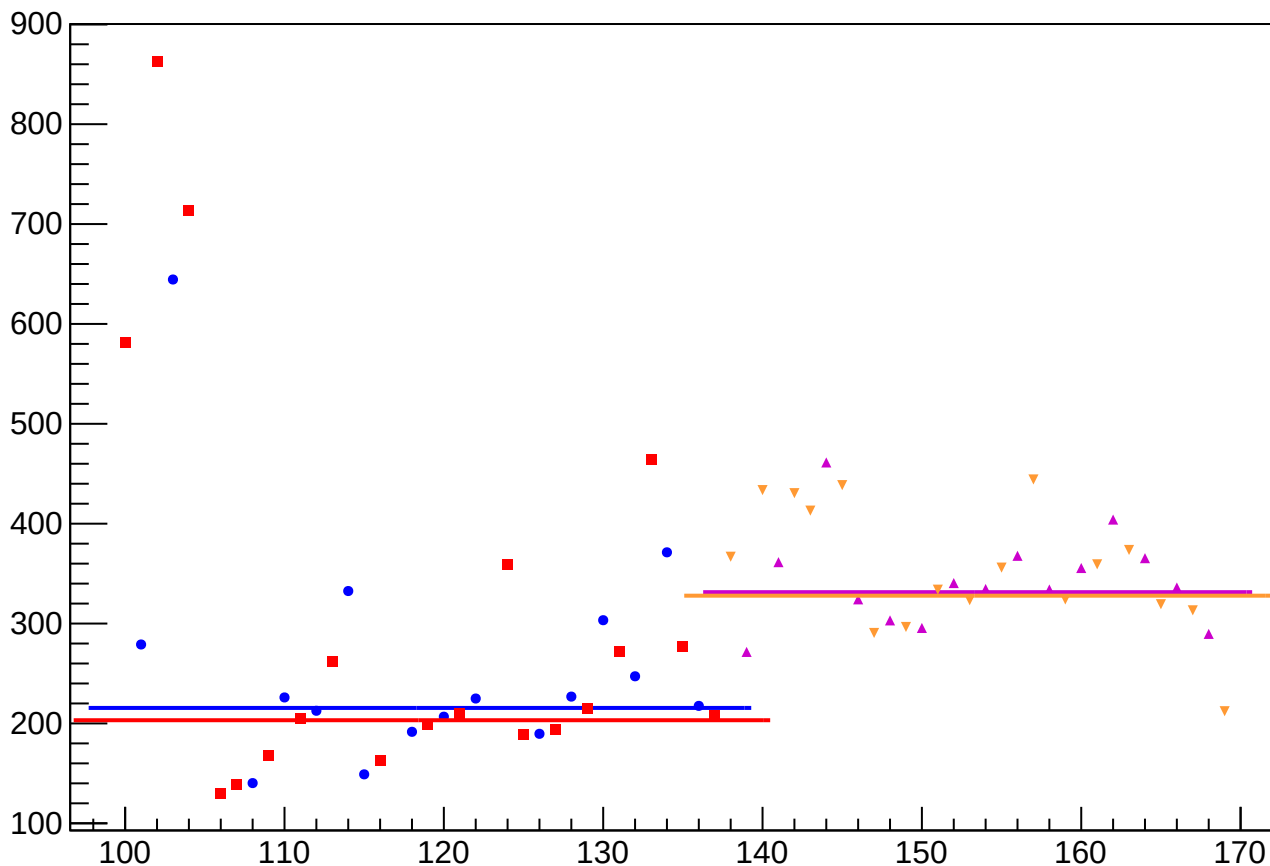
Right: 0.032 ± 0.060 χ^2/NDF : 37.9/34

In: -0.044 ± 0.064 χ^2/NDF : 34.6/30

Out: 0.087 ± 0.062 χ^2/NDF : 45.2/35

All: 0.024 ± 0.044 χ^2/NDF : 82.0/66

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 215.518 $\pm$ 0.060 χ^2 /NDF: 1148700.9/15

Left Out: 327.904 $\pm$ 0.065 χ^2 /NDF: 1012650.1/16

Right Out: 203.205 $\pm$ 0.059 χ^2 /NDF: 1835535.5/18

Left In: 331.423 $\pm$ 0.068 χ^2 /NDF: 391319.2/14

Left: 329.592 $\pm$ 0.047 χ^2 /NDF: 1405364.9/31

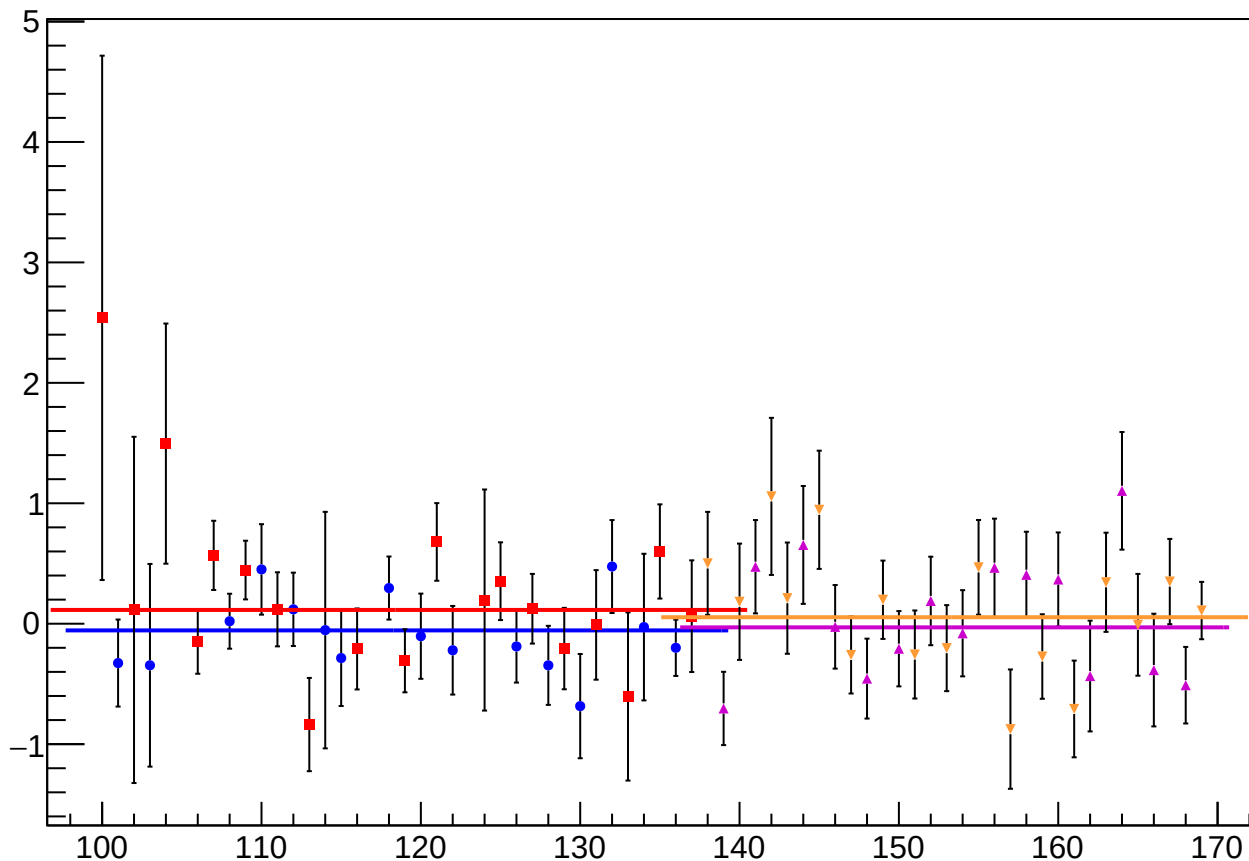
Right: 209.197 $\pm$ 0.042 χ^2 /NDF: 3005542.9/34

In: 266.701 $\pm$ 0.045 χ^2 /NDF: 3164243.9/30

Out: 259.147 $\pm$ 0.044 χ^2 /NDF: 4862905.3/35

All: 262.799 $\pm$ 0.031 χ^2 /NDF: 8041602.6/66

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.055 ± 0.085 χ^2/NDF : 10.7/15

Left Out: 0.054 ± 0.092 χ^2/NDF : 19.7/16

Right Out: 0.114 ± 0.083 χ^2/NDF : 25.2/18

Left In: -0.030 ± 0.096 χ^2/NDF : 23.9/14

Left: 0.014 ± 0.067 χ^2/NDF : 44.0/31

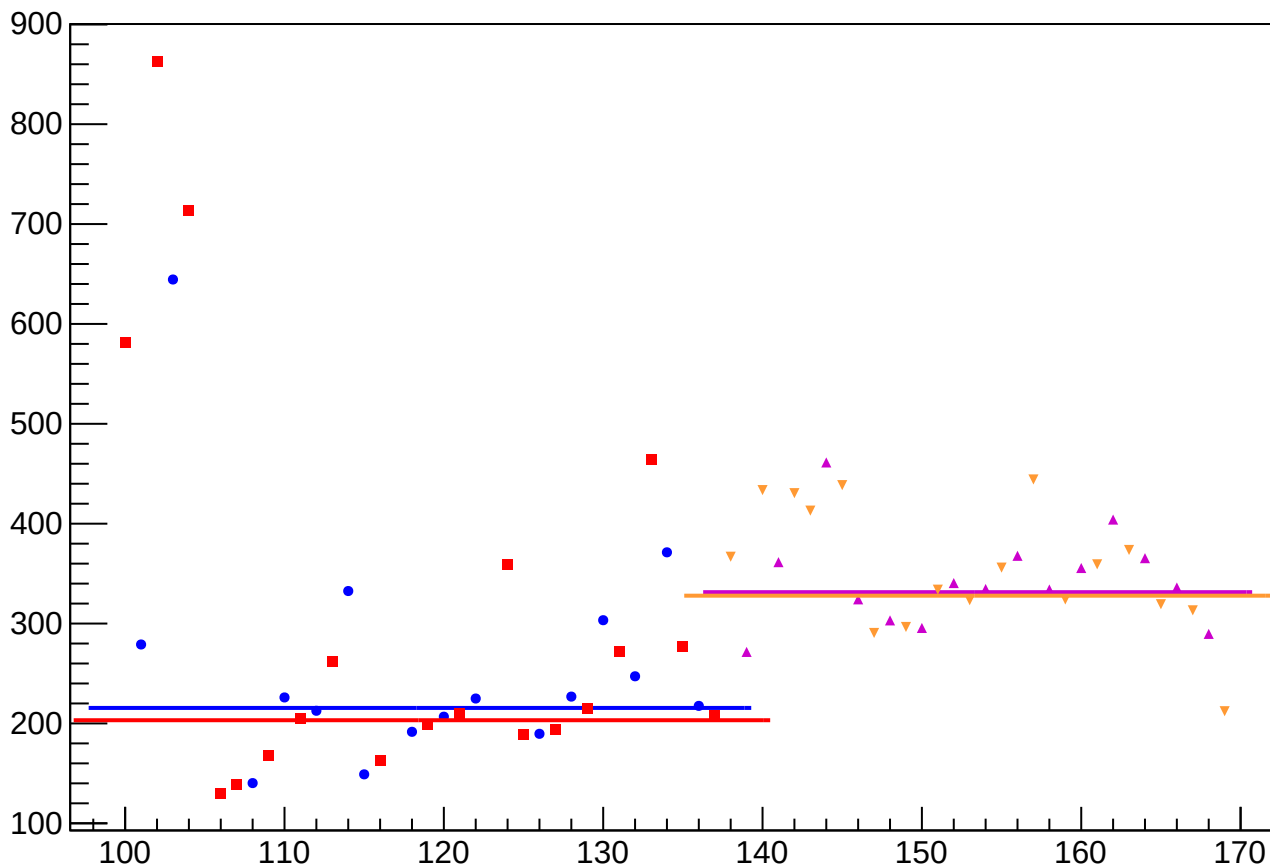
Right: 0.032 ± 0.060 χ^2/NDF : 37.9/34

In: -0.044 ± 0.064 χ^2/NDF : 34.6/30

Out: 0.087 ± 0.062 χ^2/NDF : 45.2/35

All: 0.024 ± 0.044 χ^2/NDF : 82.0/66

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 215.518 $\pm$ 0.060 χ^2 /NDF: 1148700.9/15

Left Out: 327.904 $\pm$ 0.065 χ^2 /NDF: 1012650.1/16

Right Out: 203.205 $\pm$ 0.059 χ^2 /NDF: 1835535.5/18

Left In: 331.423 $\pm$ 0.068 χ^2 /NDF: 391319.2/14

Left: 329.592 $\pm$ 0.047 χ^2 /NDF: 1405364.9/31

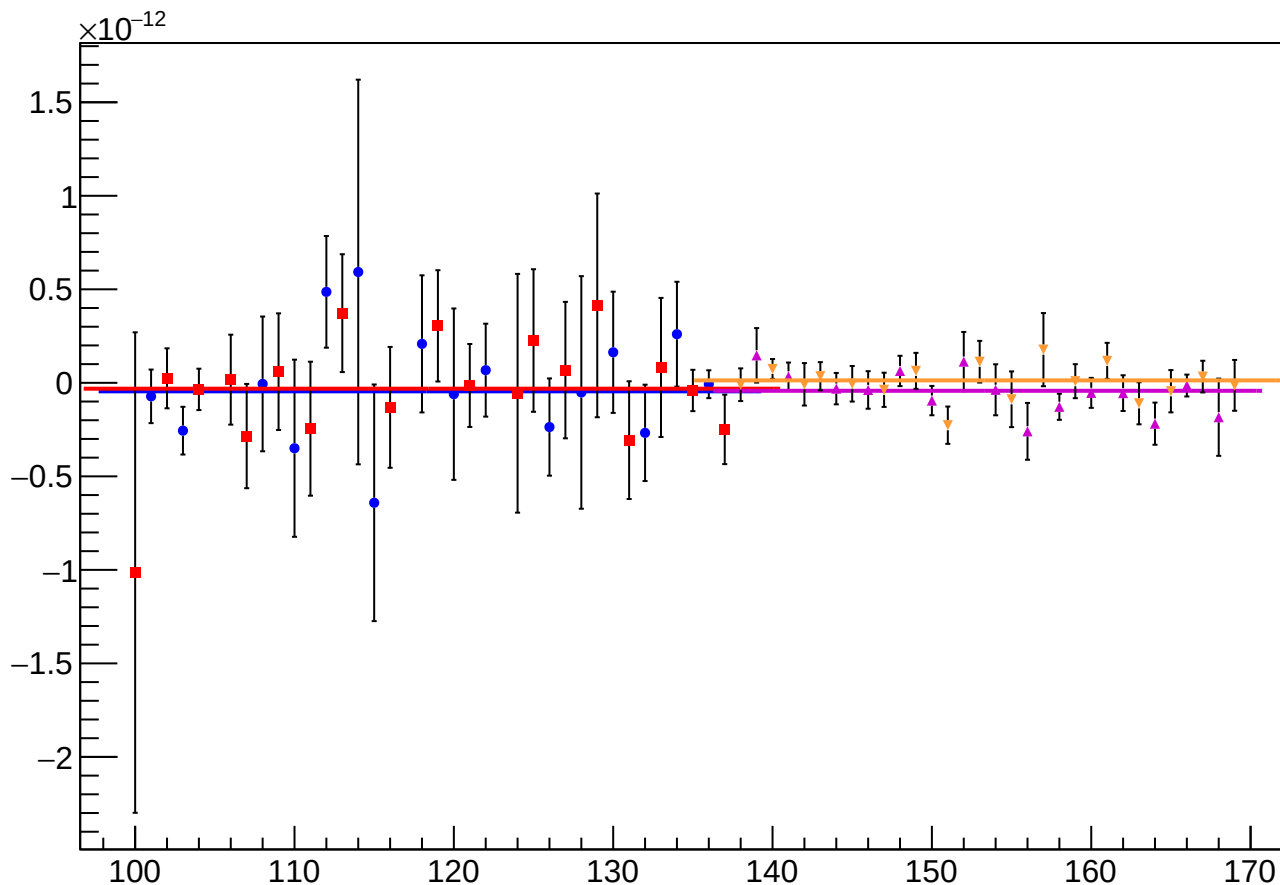
Right: 209.197 $\pm$ 0.042 χ^2 /NDF: 3005542.9/34

In: 266.701 $\pm$ 0.045 χ^2 /NDF: 3164243.9/30

Out: 259.147 $\pm$ 0.044 χ^2 /NDF: 4862905.3/35

All: 262.799 $\pm$ 0.031 χ^2 /NDF: 8041602.6/66

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 11.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :12.6/16

Right Out: -0.000+/-0.000 χ^2/NDF : 8.4/18

Left In: -0.000+/-0.000 χ^2/NDF :12.6/14

Left: -0.000+/-0.000 χ^2/NDF : 28.1/31

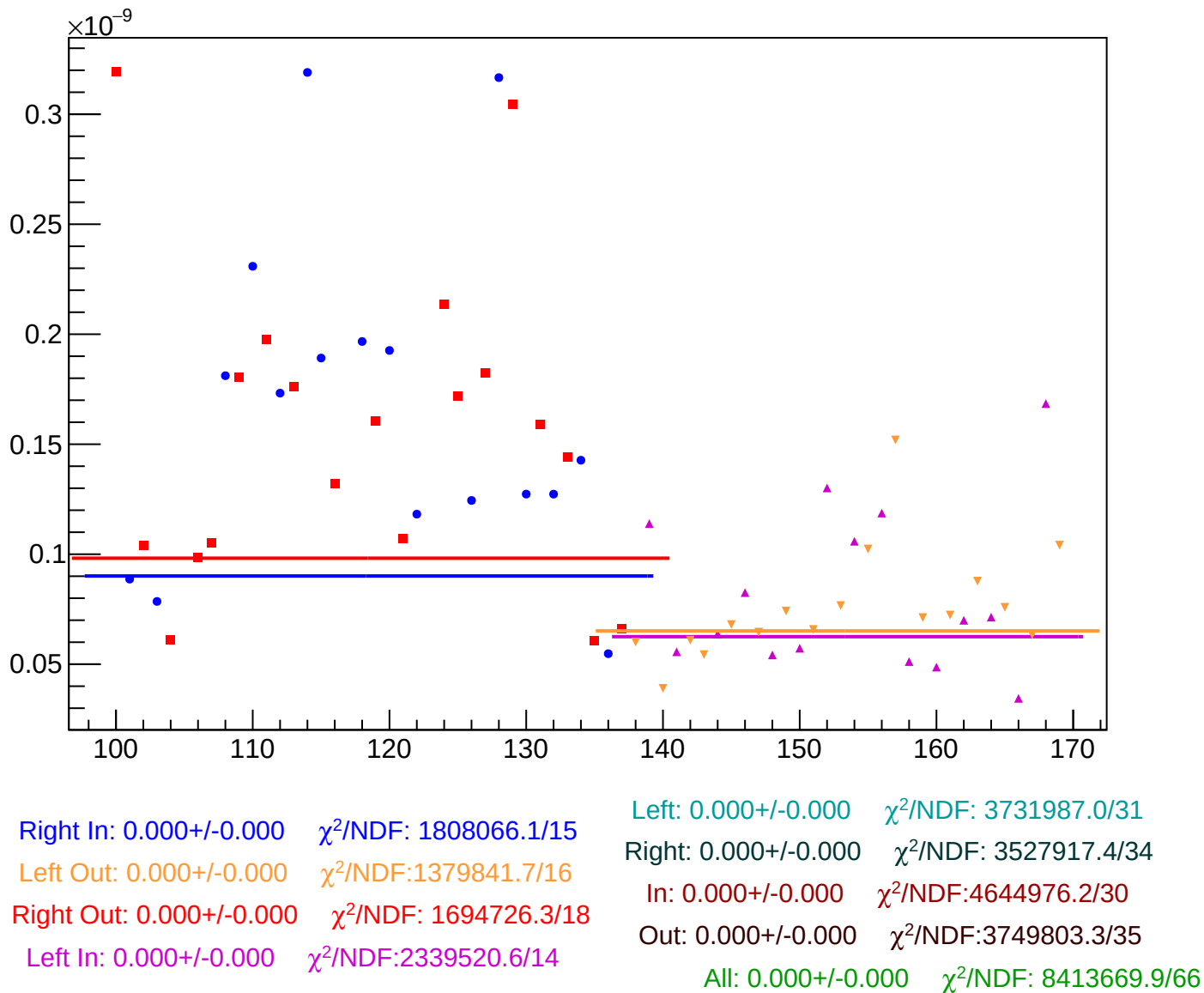
Right: -0.000+/-0.000 χ^2/NDF : 19.9/34

In: -0.000+/-0.000 χ^2/NDF :24.1/30

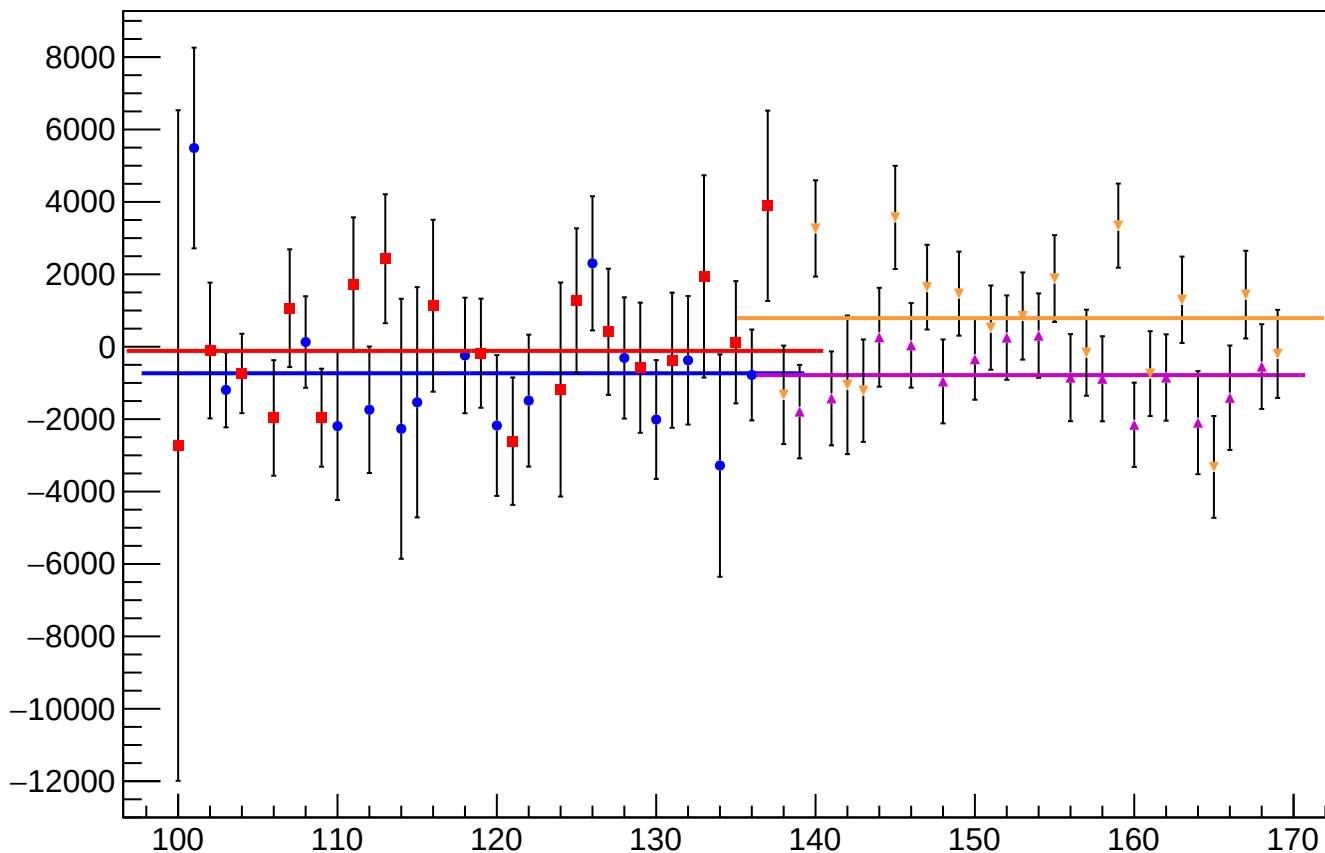
Out: 0.000+/-0.000 χ^2/NDF :21.6/35

All: -0.000+/-0.000 χ^2/NDF : 48.3/66

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



reg_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -732.747+/-427.384 χ^2/NDF : 11.7/15

Left Out: 791.025+/-305.547 χ^2/NDF : 31.3/16

Right Out: -115.040+/-411.437 χ^2/NDF : 13.1/18

Left In: -783.233+/-315.550 χ^2/NDF : 6.3/14

Left: 29.243+/-219.505 χ^2/NDF : 50.4/31

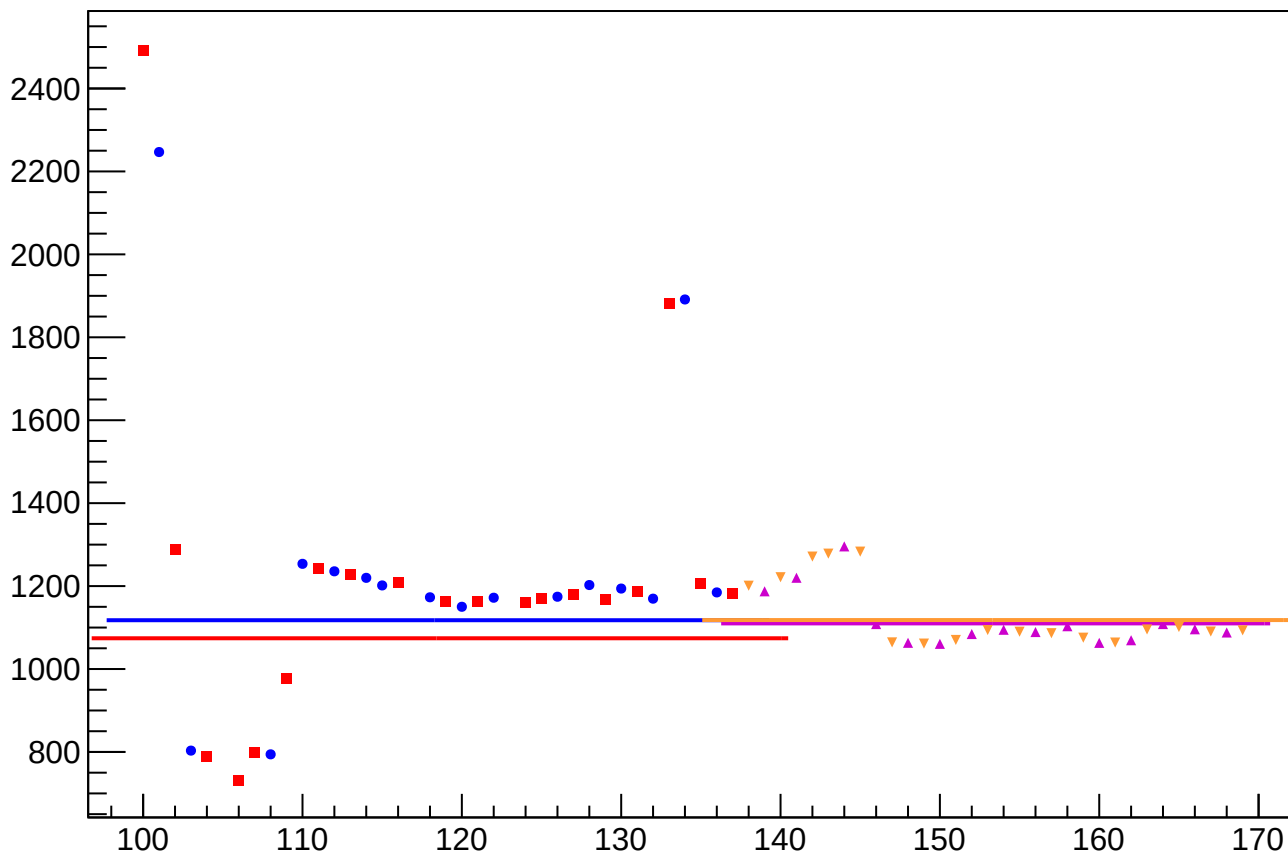
Right: -412.155+/-296.407 χ^2/NDF : 25.9/34

In: -765.422+/-253.855 χ^2/NDF : 18.0/30

Out: 468.951+/-245.302 χ^2/NDF : 47.5/35

All: -127.091+/-176.401 χ^2/NDF : 77.7/66

reg_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1117.684 $\pm$ 0.302 χ^2 /NDF: 819835.1/15

Left Out: 1118.050 $\pm$ 0.216 χ^2 /NDF: 110286.9/16

Right Out: 1074.148 $\pm$ 0.289 χ^2 /NDF: 649508.4/18

Left In: 1110.029 $\pm$ 0.223 χ^2 /NDF: 74173.4/14

Left: 1114.169 $\pm$ 0.155 χ^2 /NDF: 185127.2/31

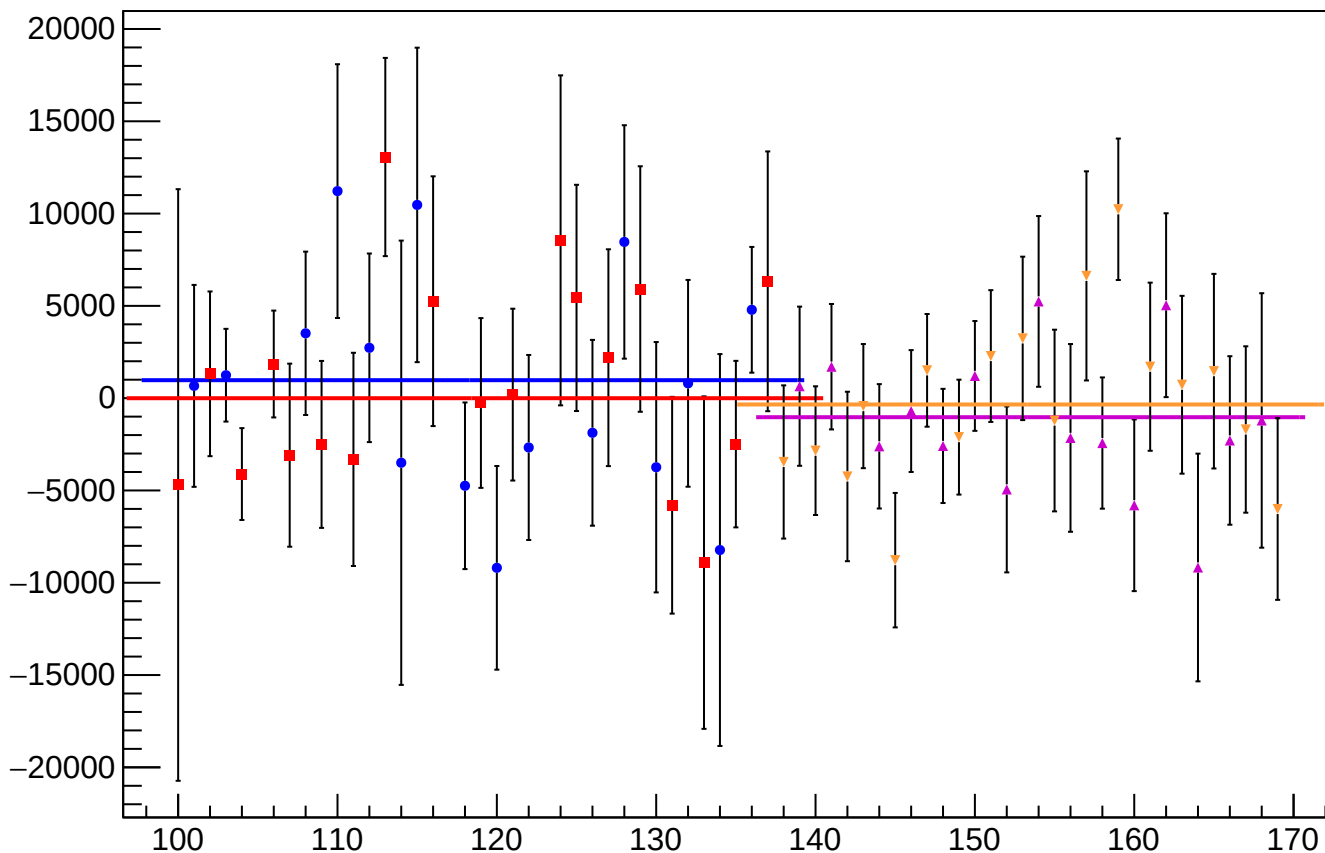
Right: 1094.908 $\pm$ 0.209 χ^2 /NDF: 1480200.6/34

In: 1112.729 $\pm$ 0.180 χ^2 /NDF: 894423.7/30

Out: 1102.277 $\pm$ 0.173 χ^2 /NDF: 774630.1/35

All: 1107.309 $\pm$ 0.125 χ^2 /NDF: 1670812.4/66

asym_usr_atr2_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 973.755 $\pm$ 1232.754 χ^2 /NDF: 13.8/15

Left Out: -342.108 $\pm$ 975.878 χ^2 /NDF:20.0/16

Right Out: -2.885 $\pm$ 1113.897 χ^2 /NDF: 16.6/18

Left In: -1031.380 $\pm$ 1034.862 χ^2 /NDF:9.0/14

Left: -666.542 $\pm$ 709.987 χ^2 /NDF: 29.2/31

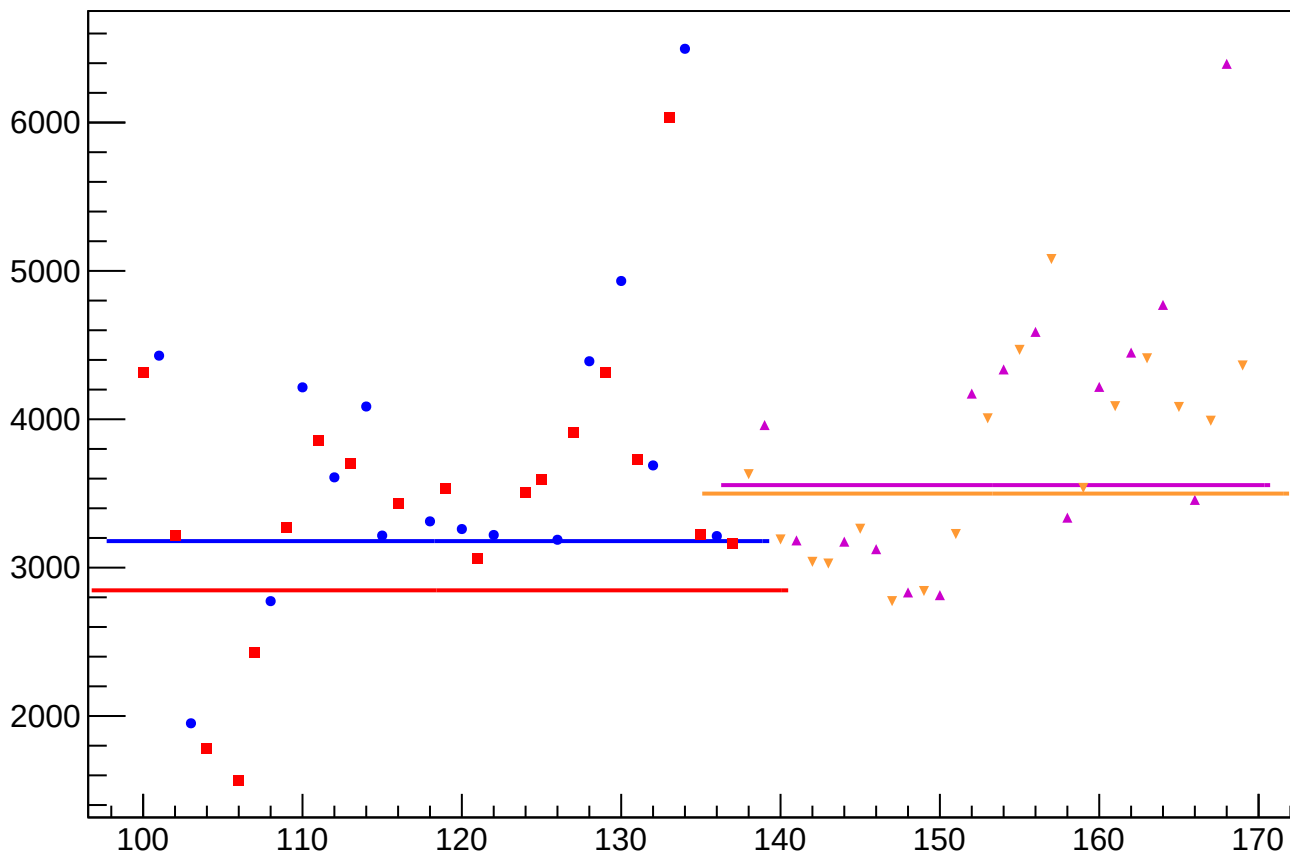
Right: 436.095 $\pm$ 826.478 χ^2 /NDF: 30.7/34

In: -202.475 $\pm$ 792.605 χ^2 /NDF:24.4/30

Out: -194.803 $\pm$ 734.025 χ^2 /NDF:36.6/35

All: -198.345 $\pm$ 538.554 χ^2 /NDF: 61.0/66

asym_usr_atr2_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 3178.870+/-0.872 χ^2/NDF : 1091676.8/15

Left Out: 3499.071+/-0.690 χ^2/NDF : 773795.1/16

Right Out: 2847.016+/-0.788 χ^2/NDF : 1511160.9/18

Left In: 3556.269+/-0.732 χ^2/NDF : 1042506.2/14

Left: 3525.994+/-0.502 χ^2/NDF : 1819535.2/31

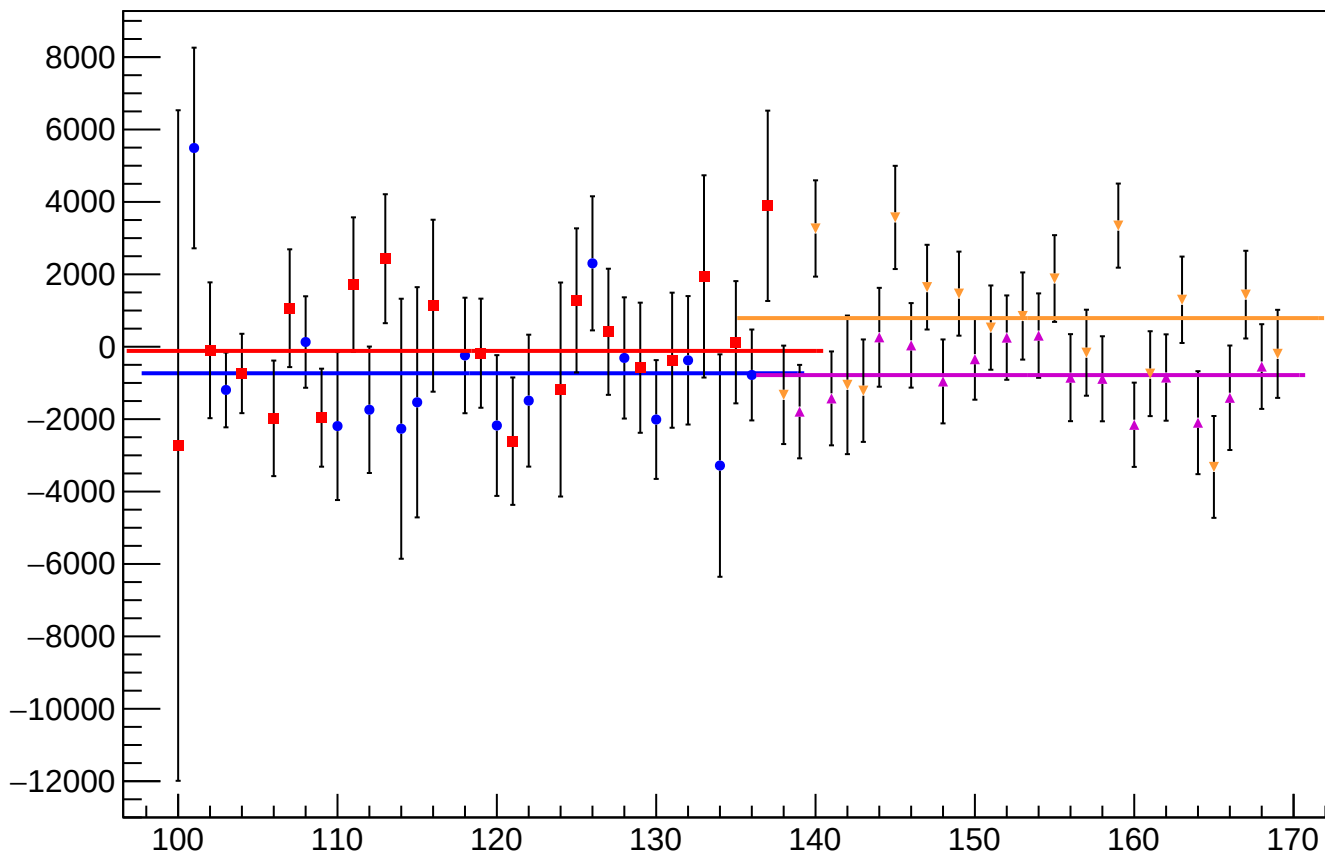
Right: 2996.178+/-0.584 χ^2/NDF : 2682627.1/34

In: 3400.256+/-0.560 χ^2/NDF : 2244141.4/30

Out: 3215.921+/-0.519 χ^2/NDF : 2672694.6/35

All: 3301.026+/-0.381 χ^2/NDF : 4975068.6/66

cor_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -732.682+/-427.385 χ^2/NDF : 11.7/15

Left Out: 791.116+/-305.547 χ^2/NDF : 31.3/16

Right Out: -115.308+/-411.441 χ^2/NDF : 13.1/18

Left In: -783.225+/-315.550 χ^2/NDF : 6.3/14

Left: 29.294+/-219.505 χ^2/NDF : 50.4/31

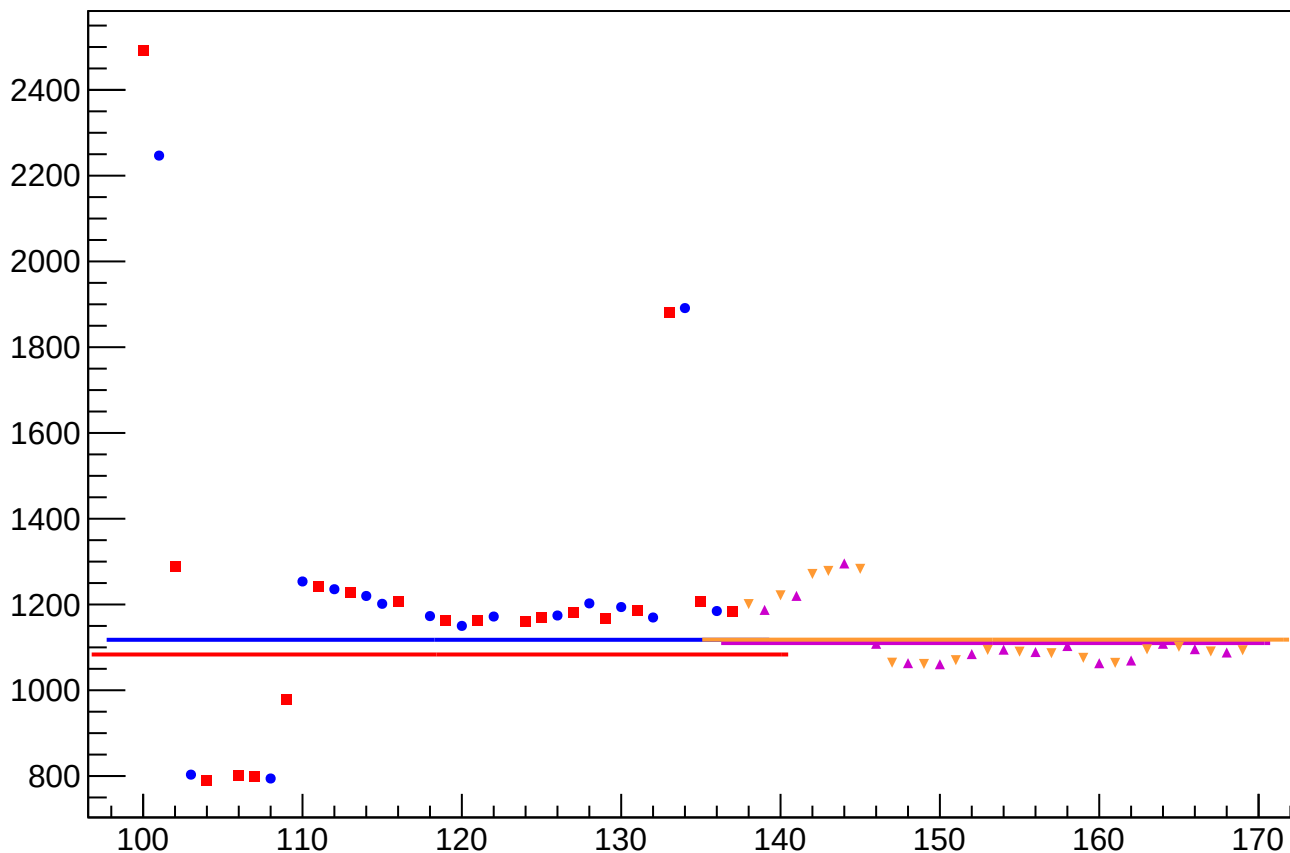
Right: -412.265+/-296.409 χ^2/NDF : 25.9/34

In: -765.393+/-253.855 χ^2/NDF : 18.0/30

Out: 468.920+/-245.303 χ^2/NDF : 47.5/35

All: -127.096+/-176.401 χ^2/NDF : 77.7/66

cor_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1117.684 $\pm$ 0.302 χ^2 /NDF: 819831.7/15

Left Out: 1118.050 $\pm$ 0.216 χ^2 /NDF: 110286.9/16

Right Out: 1083.421 $\pm$ 0.290 χ^2 /NDF: 595016.7/18

Left In: 1110.029 $\pm$ 0.223 χ^2 /NDF: 74173.4/14

Left: 1114.169 $\pm$ 0.155 χ^2 /NDF: 185127.2/31

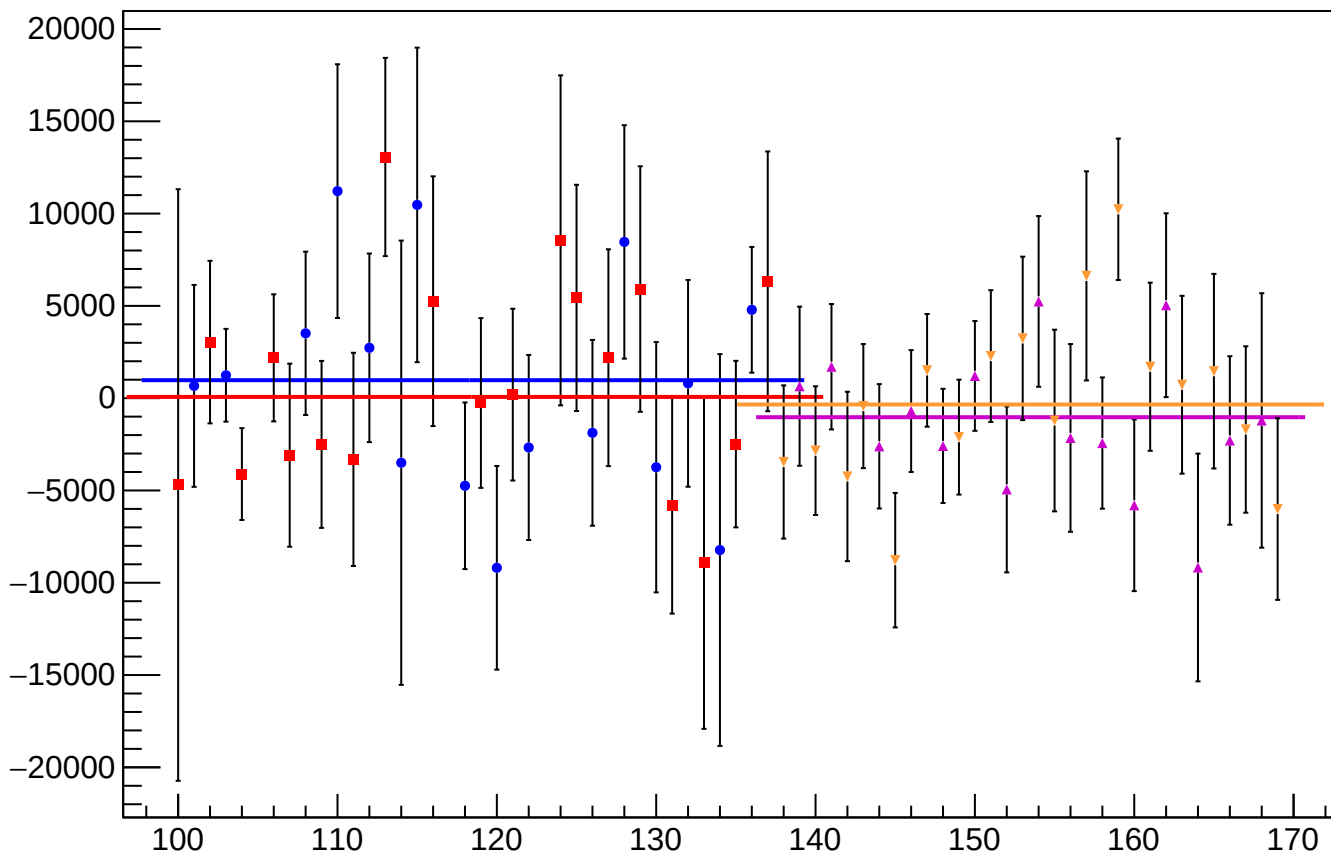
Right: 1099.869 $\pm$ 0.209 χ^2 /NDF: 1421532.1/34

In: 1112.730 $\pm$ 0.180 χ^2 /NDF: 894420.4/30

Out: 1105.710 $\pm$ 0.173 χ^2 /NDF: 714457.7/35

All: 1109.097 $\pm$ 0.125 χ^2 /NDF: 1609669.4/60

asym_usr_atr2_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 973.256 $\pm$ 1232.803 χ^2/NDF : 13.8/15

Left Out: -342.107 $\pm$ 975.877 χ^2/NDF : 20.0/16

Right Out: 67.113 $\pm$ 1137.892 χ^2/NDF : 16.9/18

Left In: -1031.392 $\pm$ 1034.862 χ^2/NDF : 9.0/14

Left: -666.547 $\pm$ 709.986 χ^2/NDF : 29.2/31

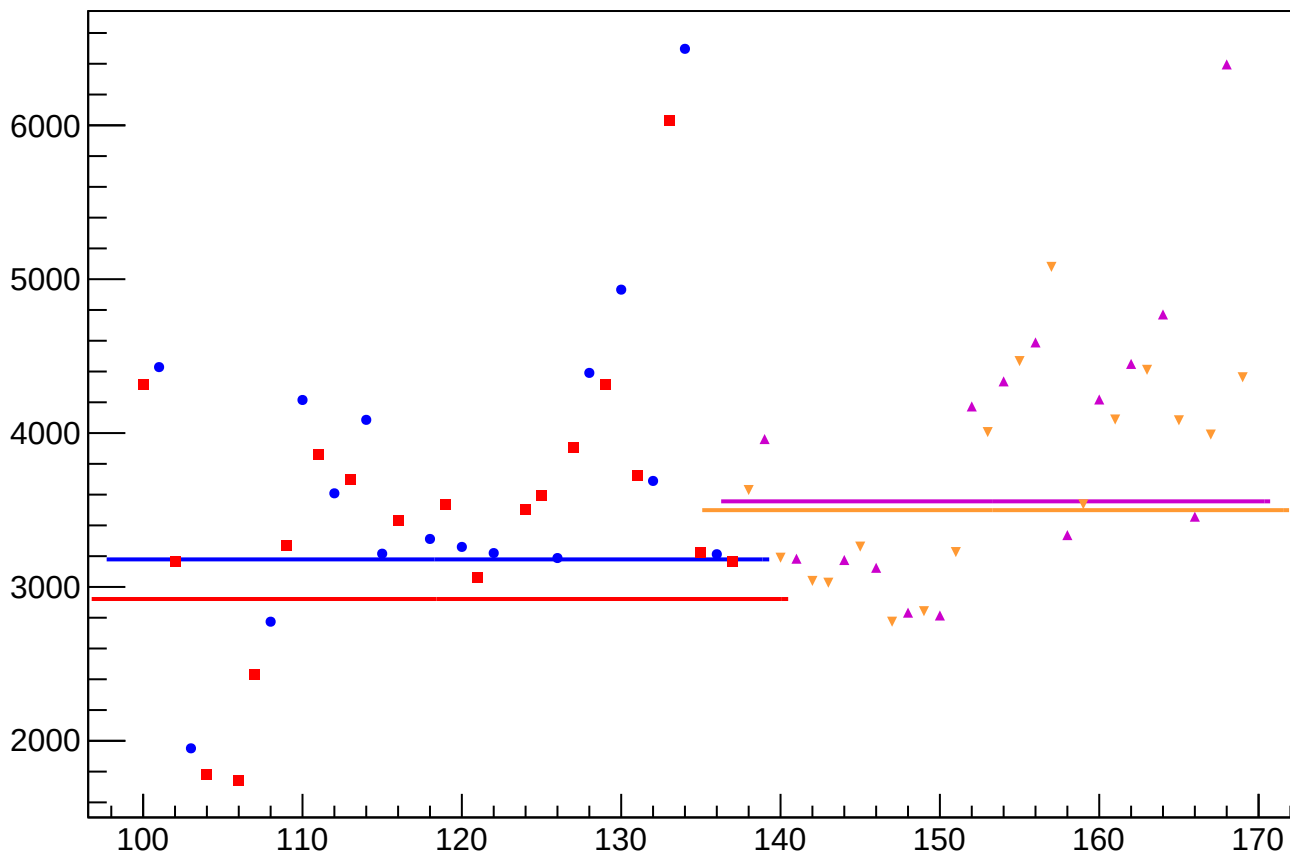
Right: 483.965 $\pm$ 836.154 χ^2/NDF : 31.0/34

In: -202.728 $\pm$ 792.618 χ^2/NDF : 24.4/30

Out: -168.679 $\pm$ 740.767 χ^2/NDF : 37.0/35

All: -184.554 $\pm$ 541.204 χ^2/NDF : 61.4/66

asym_usr_atr2_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 3179.054+/-0.872 χ^2/NDF : 1091236.5/15

Left Out: 3499.067+/-0.690 χ^2/NDF : 773798.8/16

Right Out: 2921.641+/-0.805 χ^2/NDF : 1312890.1/18

Left In: 3556.268+/-0.732 χ^2/NDF : 1042509.3/14

Left: 3525.991+/-0.502 χ^2/NDF : 1819542.4/31

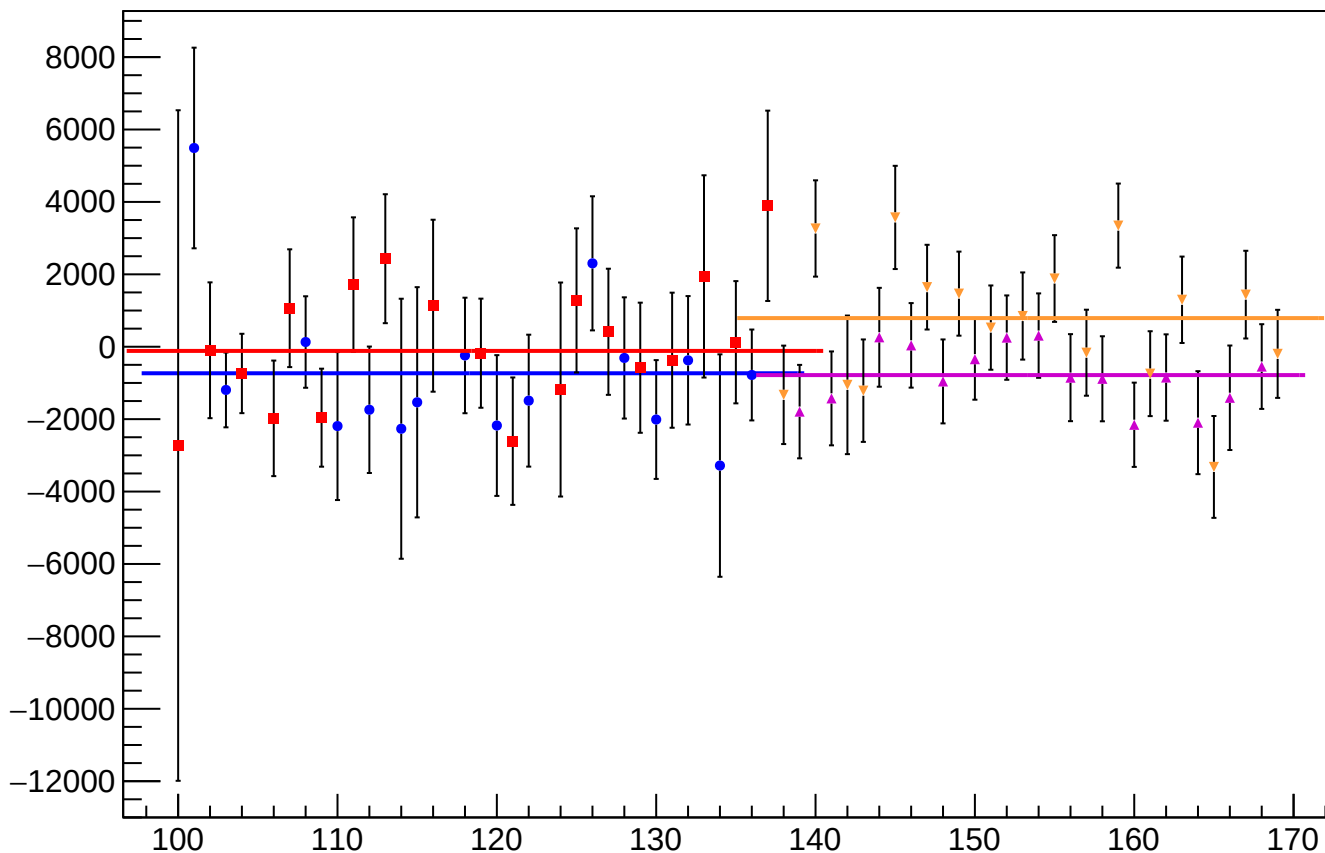
Right: 3040.058+/-0.591 χ^2/NDF : 2451210.8/34

In: 3400.338+/-0.560 χ^2/NDF : 2243590.8/30

Out: 3254.354+/-0.524 χ^2/NDF : 2383441.0/35

All: 3322.415+/-0.383 χ^2/NDF : 4663245.7/66

eigen_cor_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -732.682+/-427.385 χ^2/NDF : 11.7/15

Left Out: 791.116+/-305.547 χ^2/NDF :31.3/16

Right Out: -115.308+/-411.441 χ^2/NDF : 13.1/18

Left In: -783.225+/-315.550 χ^2/NDF :6.3/14

Left: 29.294+/-219.505 χ^2/NDF : 50.4/31

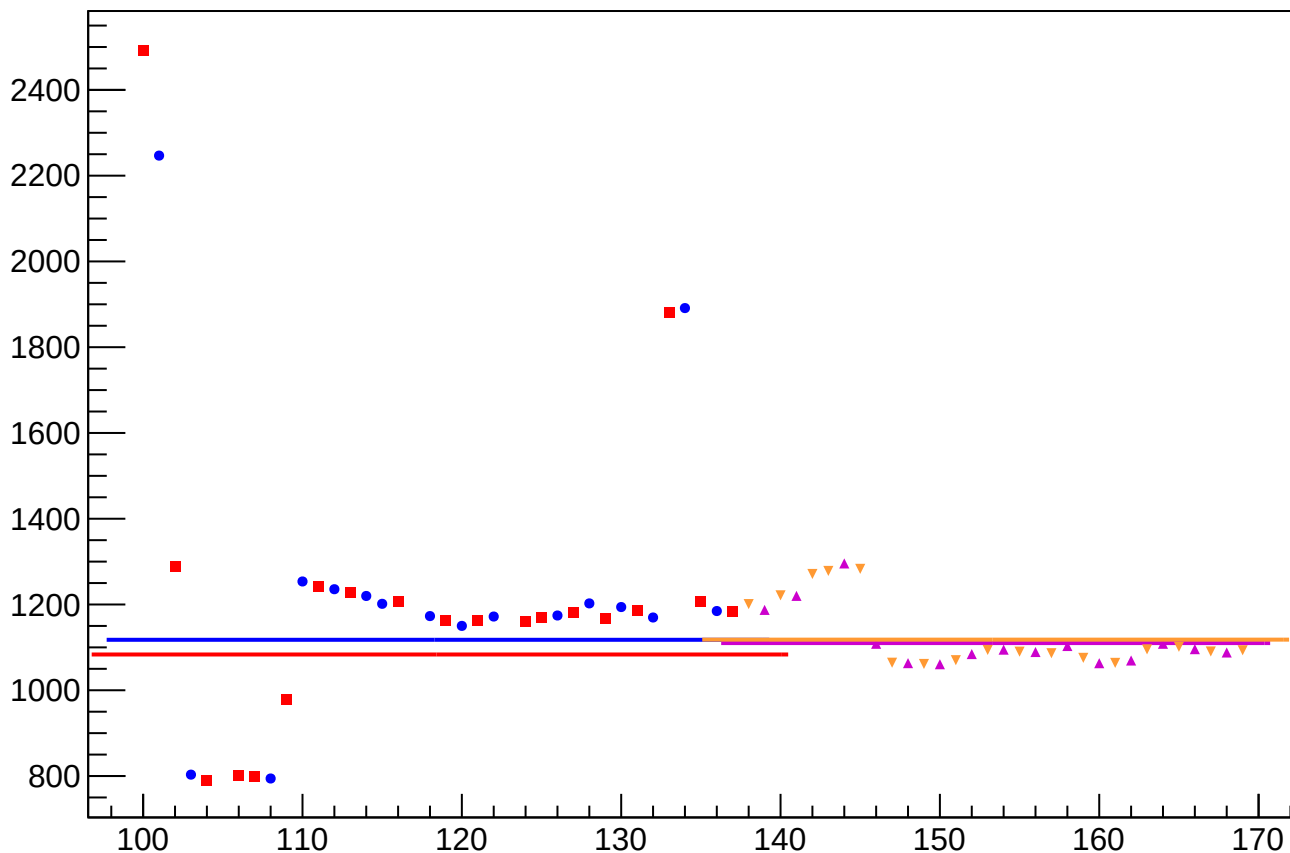
Right: -412.265+/-296.409 χ^2/NDF : 25.9/34

In: -765.393+/-253.855 χ^2/NDF :18.0/30

Out: 468.920+/-245.303 χ^2/NDF :47.5/35

All: -127.096+/-176.401 χ^2/NDF : 77.7/66

eigen_cor_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1117.684 $\pm$ 0.302 χ^2 /NDF: 819831.7/15

Left Out: 1118.050 $\pm$ 0.216 χ^2 /NDF:110286.9/16

Right Out: 1083.421 $\pm$ 0.290 χ^2 /NDF: 595016.7/18

Left In: 1110.029 $\pm$ 0.223 χ^2 /NDF:74173.4/14

Left: 1114.169 $\pm$ 0.155 χ^2 /NDF: 185127.2/31

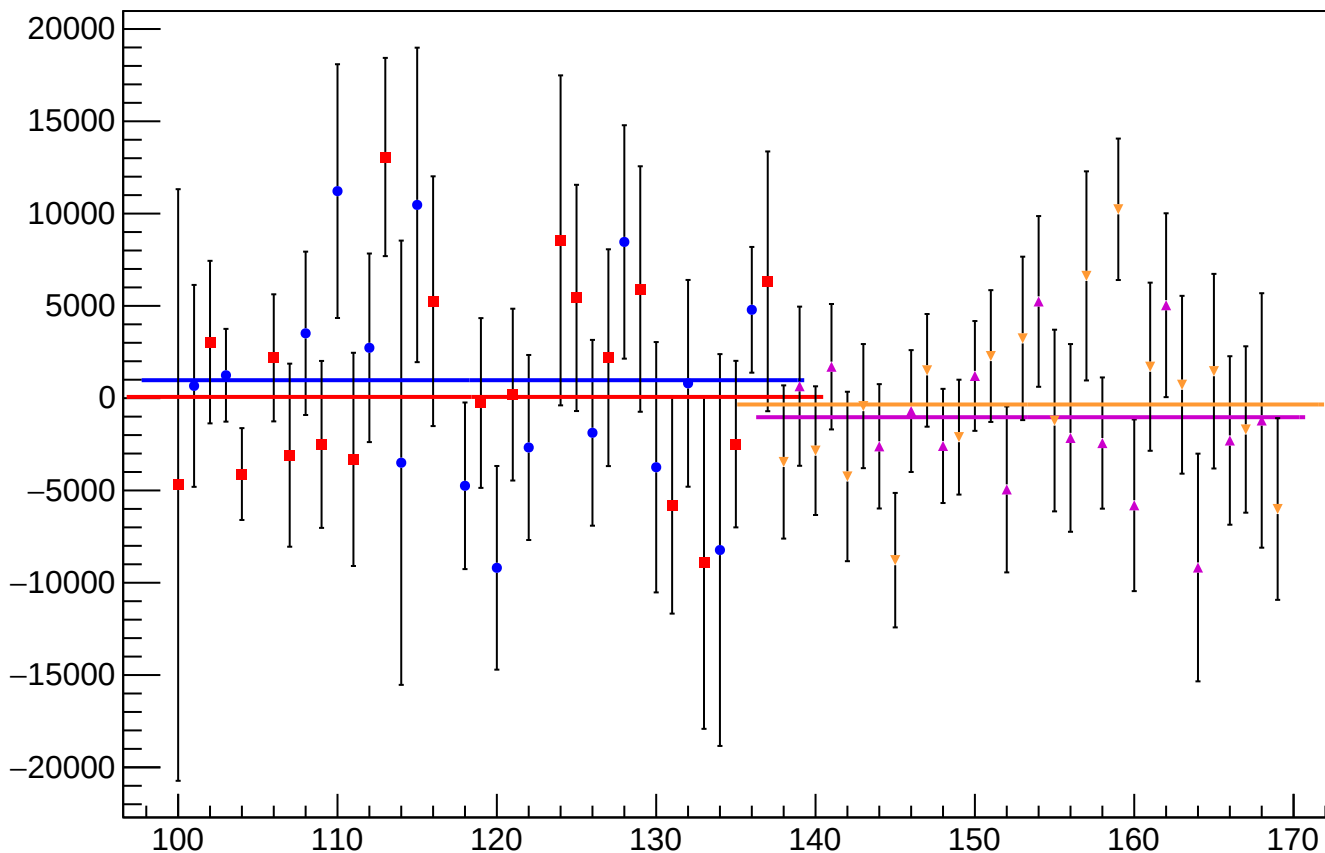
Right: 1099.869 $\pm$ 0.209 χ^2 /NDF: 1421532.1/34

In: 1112.730 $\pm$ 0.180 χ^2 /NDF:894420.4/30

Out: 1105.710 $\pm$ 0.173 χ^2 /NDF:714457.7/35

All: 1109.097 $\pm$ 0.125 χ^2 /NDF: 1609669.4/60

asym_usr_atr2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 973.256 $\pm$ 1232.803 χ^2 /NDF: 13.8/15

Left Out: -342.107 $\pm$ 975.877 χ^2 /NDF:20.0/16

Right Out: 67.113 $\pm$ 1137.892 χ^2 /NDF: 16.9/18

Left In: -1031.392 $\pm$ 1034.862 χ^2 /NDF:9.0/14

Left: -666.547 $\pm$ 709.986 χ^2 /NDF: 29.2/31

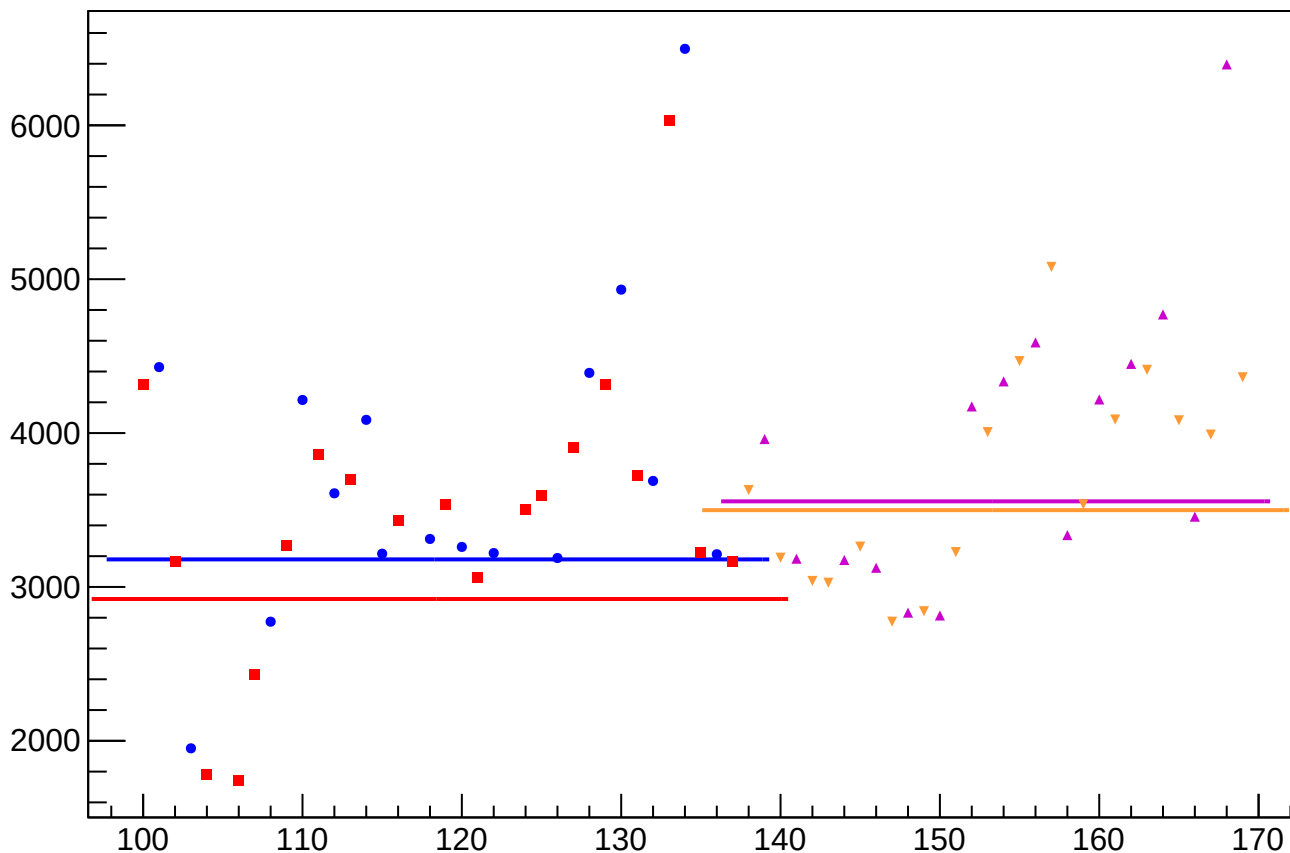
Right: 483.965 $\pm$ 836.154 χ^2 /NDF: 31.0/34

In: -202.728 $\pm$ 792.618 χ^2 /NDF:24.4/30

Out: -168.679 $\pm$ 740.767 χ^2 /NDF:37.0/35

All: -184.554 $\pm$ 541.204 χ^2 /NDF: 61.4/66

asym_usr_atr2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3179.054+/-0.872 χ^2/NDF : 1091236.5/15

Left Out: 3499.067+/-0.690 χ^2/NDF : 773798.8/16

Right Out: 2921.641+/-0.805 χ^2/NDF : 1312890.1/18

Left In: 3556.268+/-0.732 χ^2/NDF : 1042509.3/14

Left: 3525.991+/-0.502 χ^2/NDF : 1819542.4/31

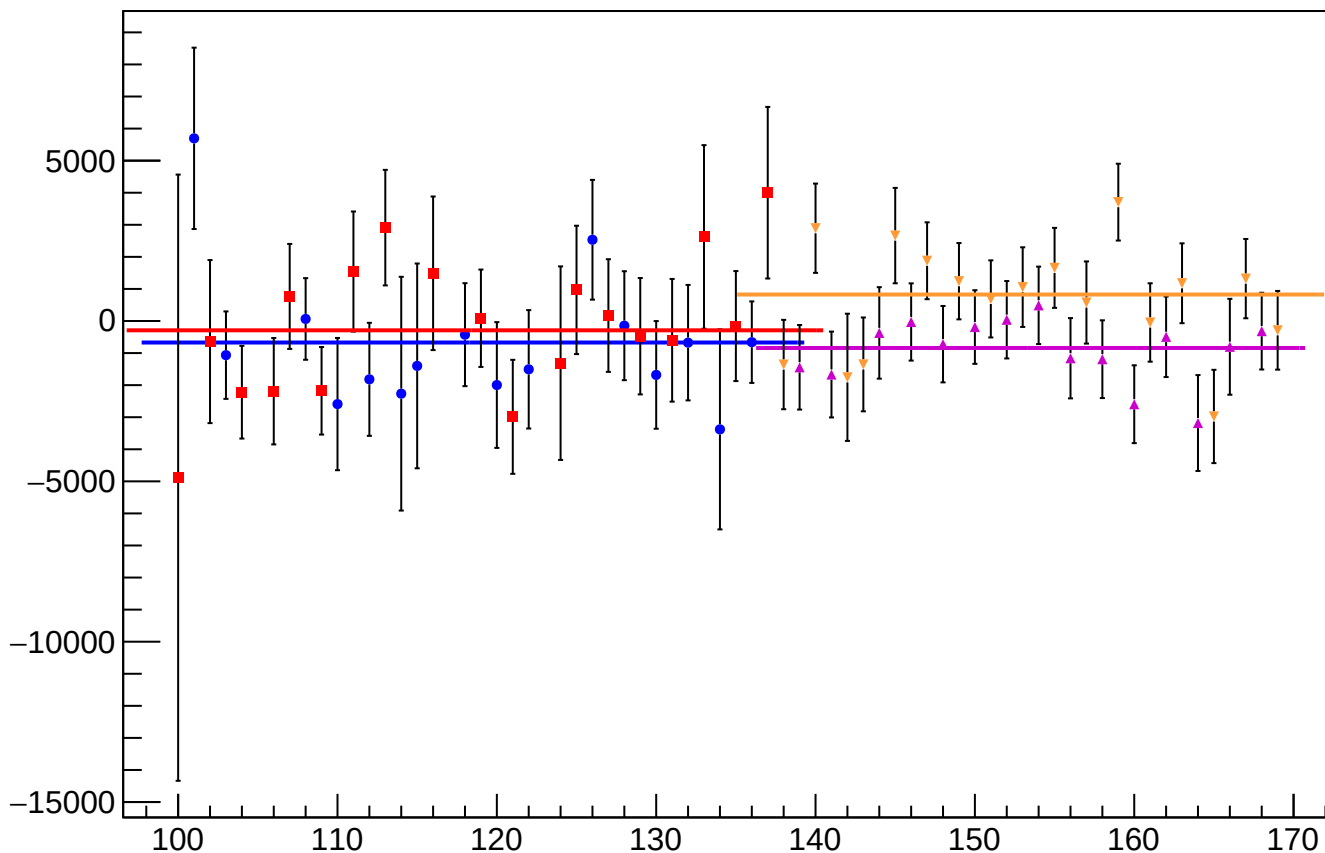
Right: 3040.058+/-0.591 χ^2/NDF : 2451210.8/34

In: 3400.338+/-0.560 χ^2/NDF : 2243590.8/30

Out: 3254.354+/-0.524 χ^2/NDF : 2383441.0/35

All: 3322.415+/-0.383 χ^2/NDF : 4663245.7/66

dit_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -670.819 ± 448.500 $\chi^2/\text{NDF}: 11.9/15$

Left Out: 825.750 ± 316.191 $\chi^2/\text{NDF}: 25.7/16$

Right Out: -290.311 ± 434.425 $\chi^2/\text{NDF}: 16.9/18$

Left In: -840.949 ± 326.587 $\chi^2/\text{NDF}: 8.2/14$

Left: 19.348 ± 227.167 $\chi^2/\text{NDF}: 47.3/31$

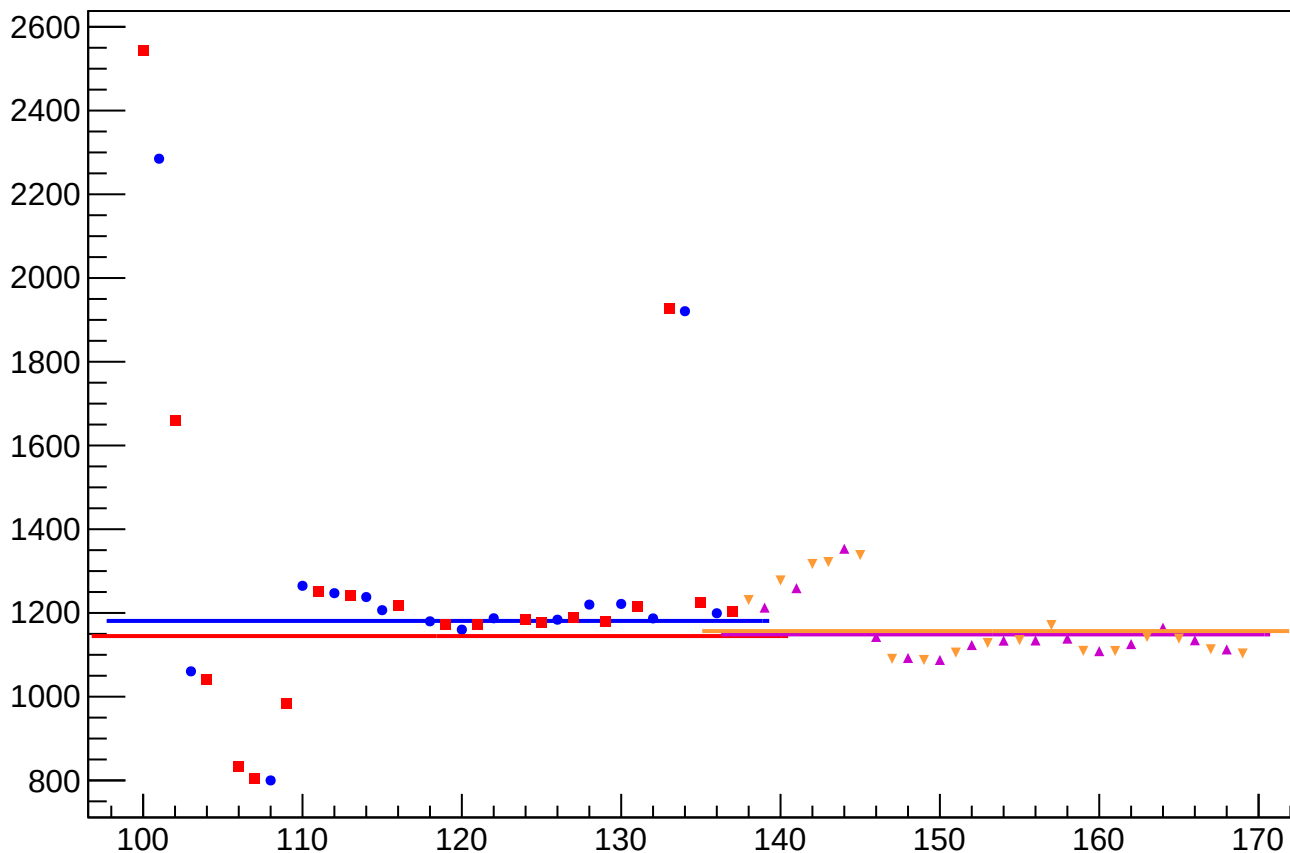
Right: -474.501 ± 312.042 $\chi^2/\text{NDF}: 29.2/34$

In: -781.998 ± 264.009 $\chi^2/\text{NDF}: 20.1/30$

Out: 439.260 ± 255.646 $\chi^2/\text{NDF}: 47.0/35$

All: -151.721 ± 183.655 $\chi^2/\text{NDF}: 78.2/66$

dit_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1180.955 $\pm$ 0.317 χ^2 /NDF: 621878.6/15

Left Out: 1156.689 $\pm$ 0.224 χ^2 /NDF: 120479.7/16

Right Out: 1144.777 $\pm$ 0.307 χ^2 /NDF: 497730.6/18

Left In: 1148.712 $\pm$ 0.231 χ^2 /NDF: 76296.9/14

Left: 1152.830 $\pm$ 0.161 χ^2 /NDF: 197392.5/31

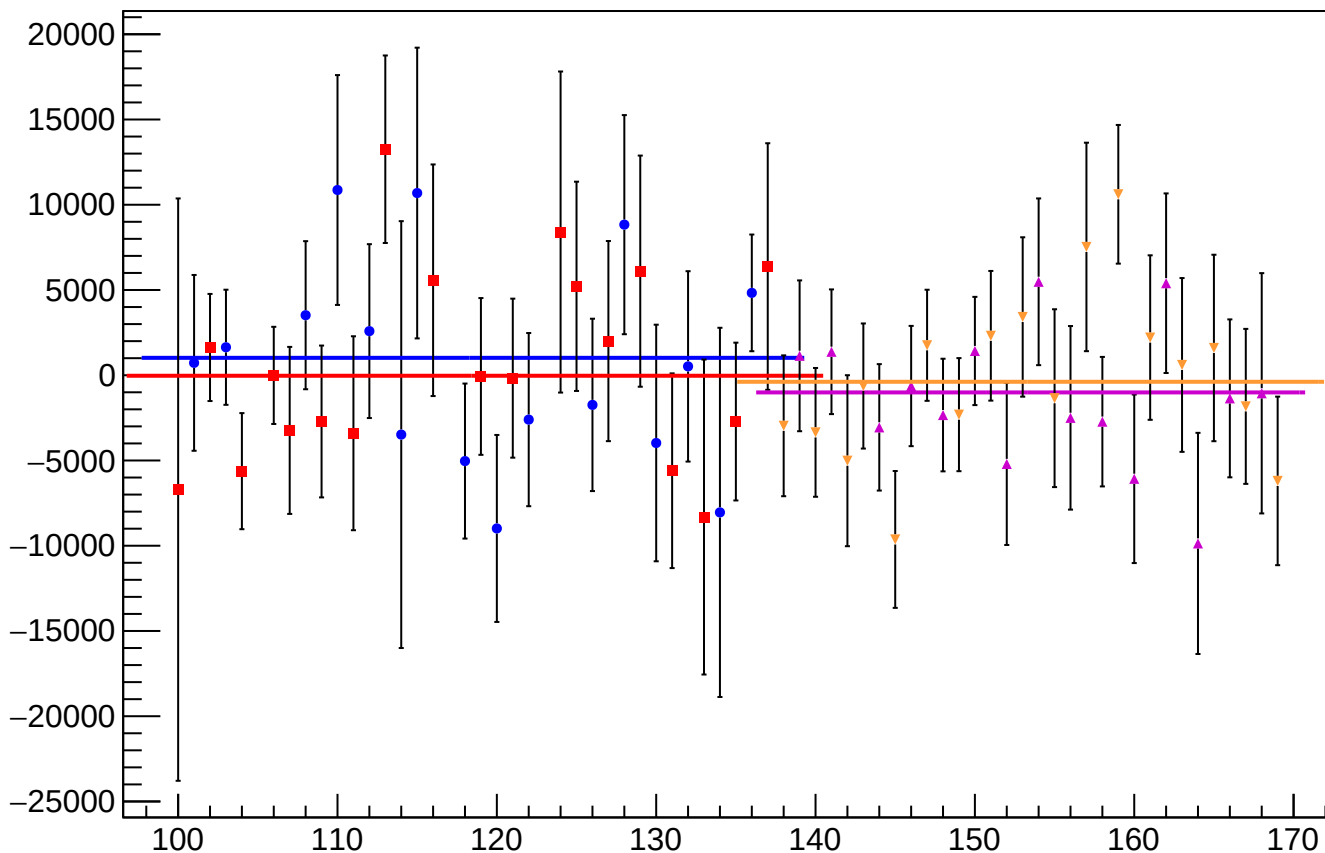
Right: 1162.281 $\pm$ 0.221 χ^2 /NDF: 1126326.7/34

In: 1159.885 $\pm$ 0.187 χ^2 /NDF: 704930.5/30

Out: 1152.561 $\pm$ 0.181 χ^2 /NDF: 619194.0/35

All: 1156.105 $\pm$ 0.130 χ^2 /NDF: 1324918.8/66

asym_usr_atr2_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1021.047 $\pm$ 1302.431 χ^2 /NDF: 13.9/15

Left Out: -383.763 $\pm$ 1035.232 χ^2 /NDF:20.1/16

Right Out: -30.135 $\pm$ 1130.743 χ^2 /NDF: 16.1/18

Left In: -1007.740 $\pm$ 1099.389 χ^2 /NDF:8.9/14

Left: -677.015 $\pm$ 753.680 χ^2 /NDF: 29.2/31

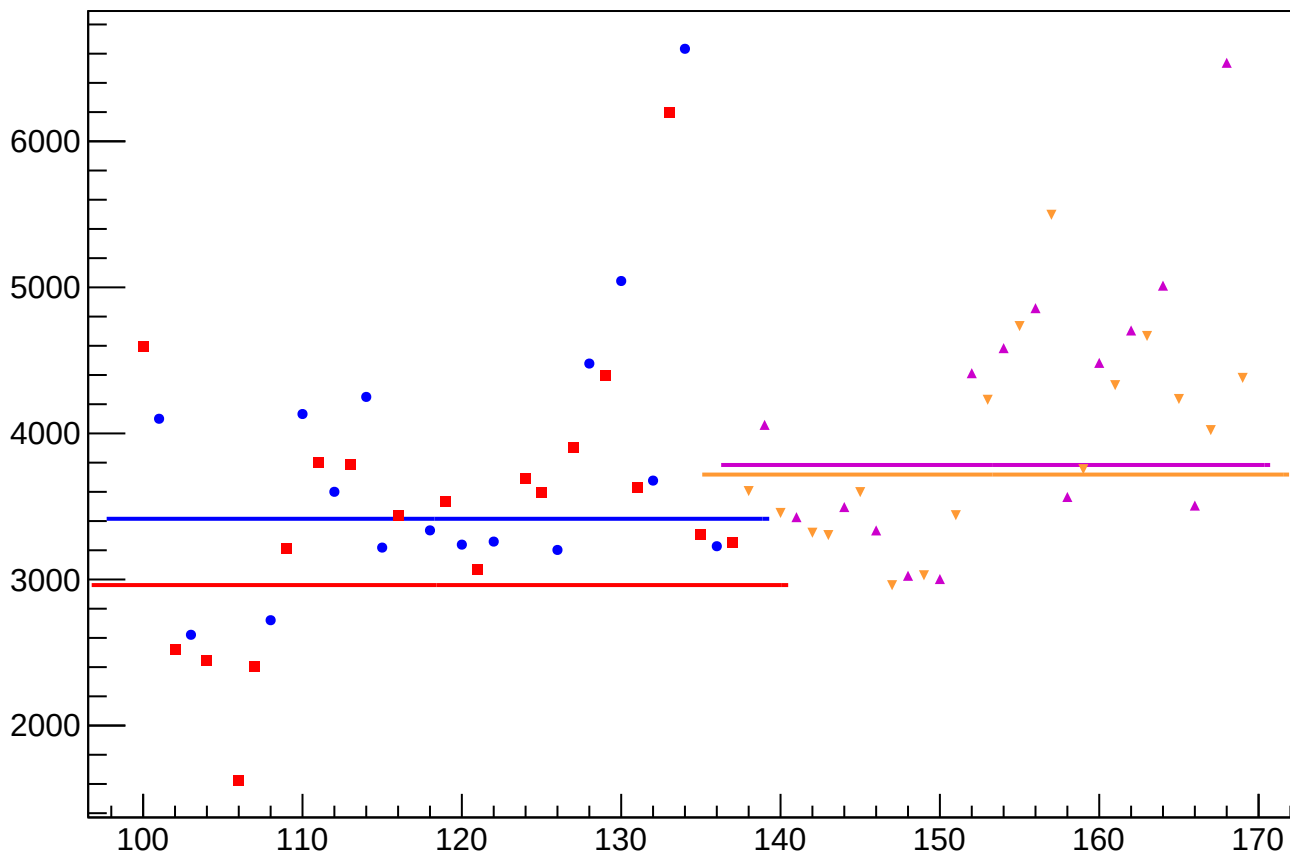
Right: 421.650 $\pm$ 853.851 χ^2 /NDF: 30.4/34

In: -163.637 $\pm$ 840.107 χ^2 /NDF:24.2/30

Out: -222.513 $\pm$ 763.557 χ^2 /NDF:36.3/35

All: -195.879 $\pm$ 565.045 χ^2 /NDF: 60.5/66

asym_usr_atr2_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 3415.595 $\pm$ 0.921 χ^2 /NDF: 592344.0/15

Left Out: 3718.387 $\pm$ 0.732 χ^2 /NDF: 690032.9/16

Right Out: 2961.798 $\pm$ 0.800 χ^2 /NDF: 1169257.4/18

Left In: 3784.036 $\pm$ 0.777 χ^2 /NDF: 957747.9/14

Left: 3749.240 $\pm$ 0.533 χ^2 /NDF: 1651560.6/31

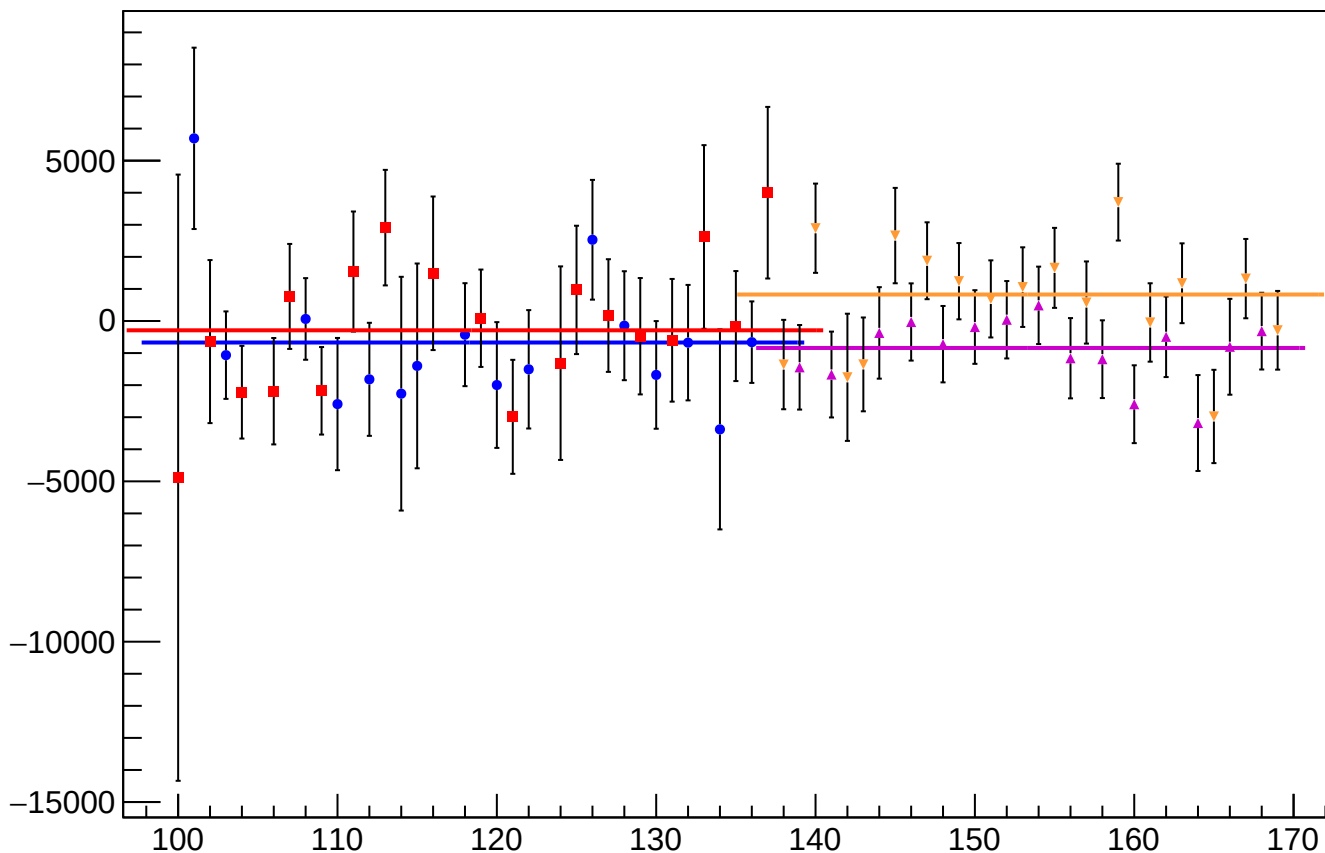
Right: 3156.834 $\pm$ 0.604 χ^2 /NDF: 1900046.9/34

In: 3630.741 $\pm$ 0.594 χ^2 /NDF: 1643551.0/30

Out: 3373.391 $\pm$ 0.540 χ^2 /NDF: 2346403.4/35

All: 3489.809 $\pm$ 0.400 χ^2 /NDF: 4092731.1/66

eigen_dit_asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -670.824+/-448.500 χ^2/NDF : 11.9/15

Left Out: 825.758+/-316.191 χ^2/NDF : 25.7/16

Right Out: -290.316+/-434.425 χ^2/NDF : 16.9/18

Left In: -840.950+/-326.587 χ^2/NDF : 8.2/14

Left: 19.352+/-227.167 χ^2/NDF : 47.3/31

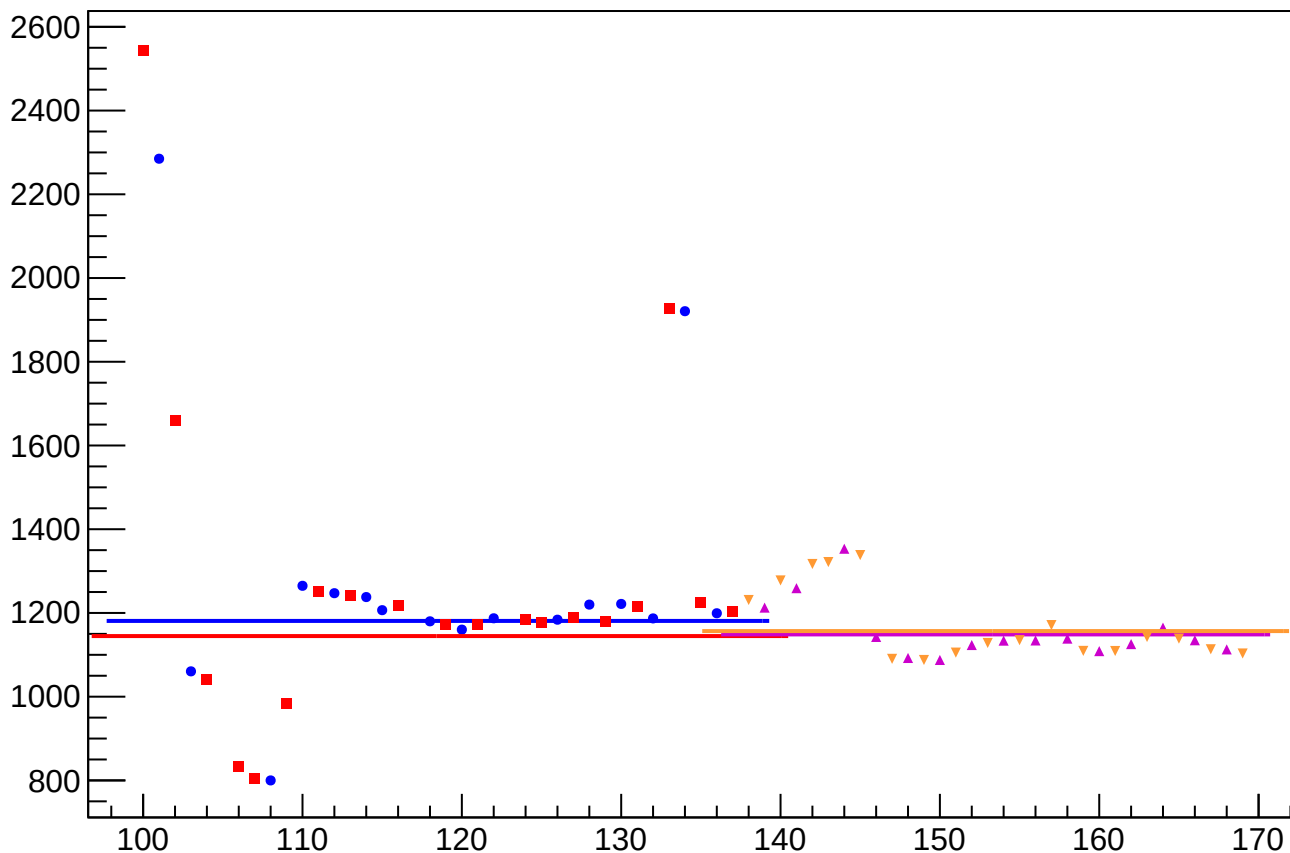
Right: -474.506+/-312.042 χ^2/NDF : 29.2/34

In: -782.000+/-264.009 χ^2/NDF : 20.1/30

Out: 439.263+/-255.647 χ^2/NDF : 47.0/35

All: -151.720+/-183.655 χ^2/NDF : 78.2/66

eigen_dit_asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 1180.955+/-0.317 χ^2/NDF : 621878.9/15

Left Out: 1156.690+/-0.224 χ^2/NDF : 120479.5/16

Right Out: 1144.777+/-0.307 χ^2/NDF : 497730.2/18

Left In: 1148.713+/-0.231 χ^2/NDF : 76296.3/14

Left: 1152.830+/-0.161 χ^2/NDF : 197391.7/31

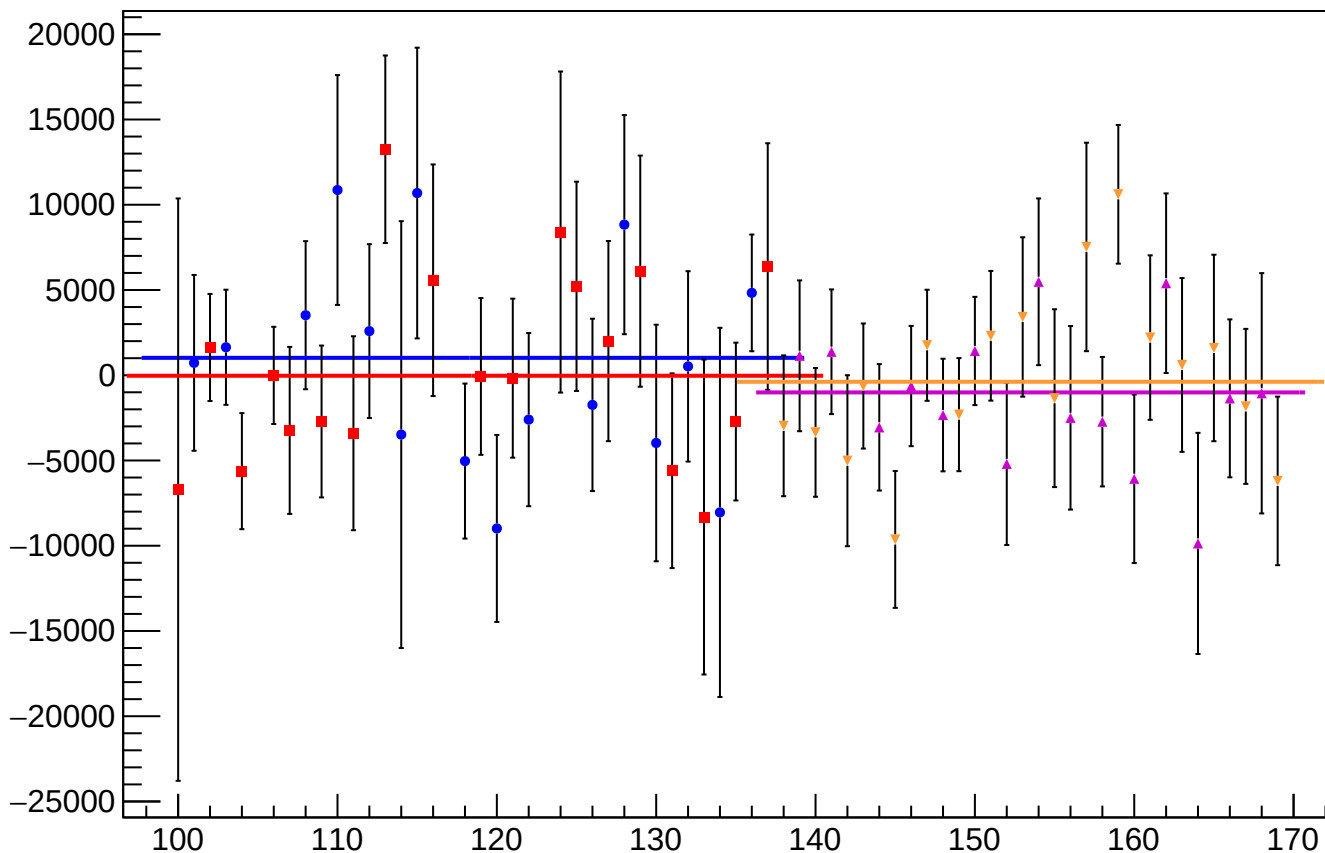
Right: 1162.281+/-0.221 χ^2/NDF : 1126326.4/34

In: 1159.885+/-0.187 χ^2/NDF : 704929.7/30

Out: 1152.562+/-0.181 χ^2/NDF : 619193.5/35

All: 1156.105+/-0.130 χ^2/NDF : 1324917.5/66

asym_usr_atr2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1021.029+/-1302.430 χ^2/NDF : 13.9/15

Left Out: -383.762+/-1035.233 χ^2/NDF :20.1/16

Right Out: -30.142+/-1130.741 χ^2/NDF : 16.1/18

Left In: -1007.738+/-1099.391 χ^2/NDF :8.9/14

Left: -677.013+/-753.681 χ^2/NDF : 29.2/31

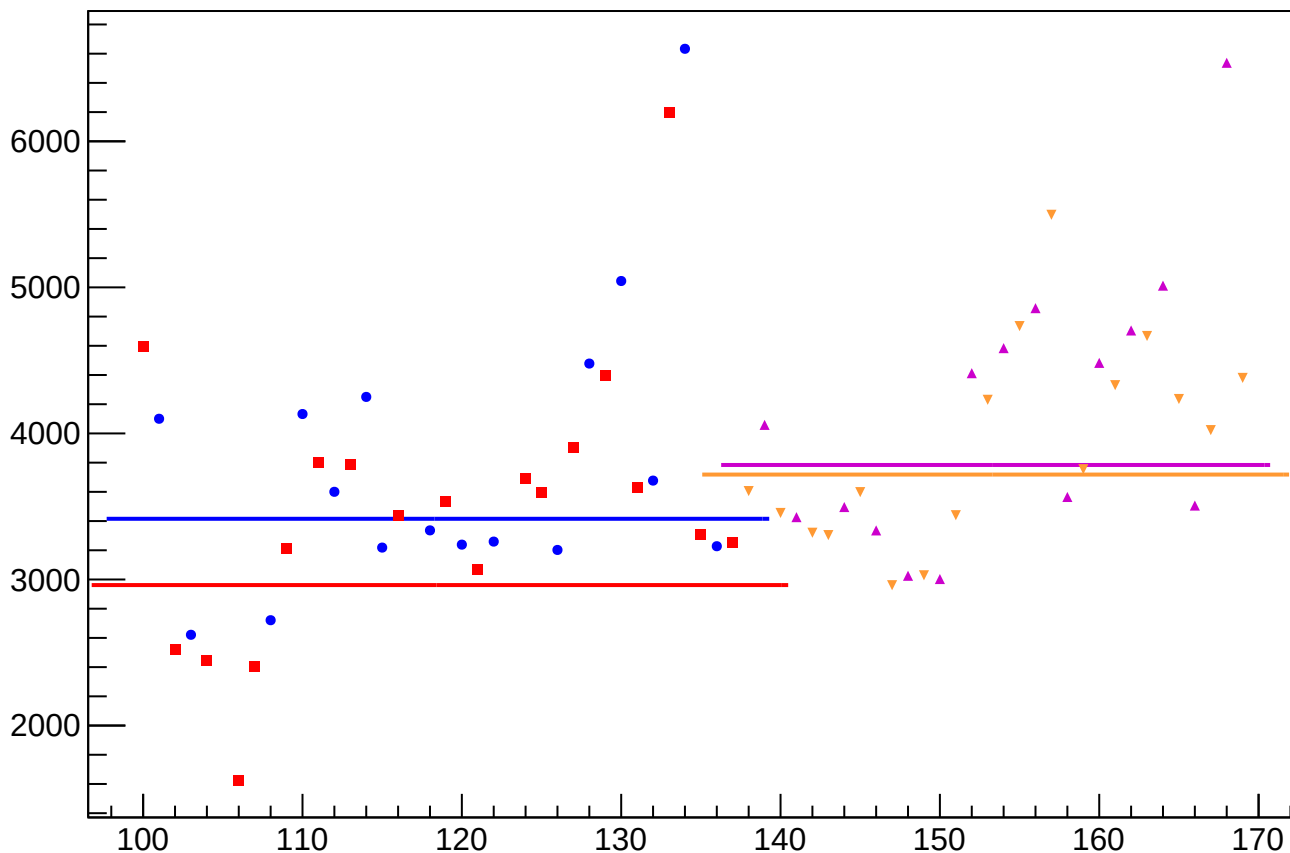
Right: 421.639+/-853.849 χ^2/NDF : 30.4/34

In: -163.640+/-840.107 χ^2/NDF :24.2/30

Out: -222.514+/-763.557 χ^2/NDF :36.3/35

All: -195.881+/-565.045 χ^2/NDF : 60.5/66

asym_usr_atr2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3415.591+/-0.921 χ^2/NDF : 592339.1/15

Left Out: 3718.392+/-0.732 χ^2/NDF : 690032.3/16

Right Out: 2961.793+/-0.800 χ^2/NDF : 1169257.0/18

Left In: 3784.041+/-0.777 χ^2/NDF : 957747.5/14

Left: 3749.245+/-0.533 χ^2/NDF : 1651559.6/31

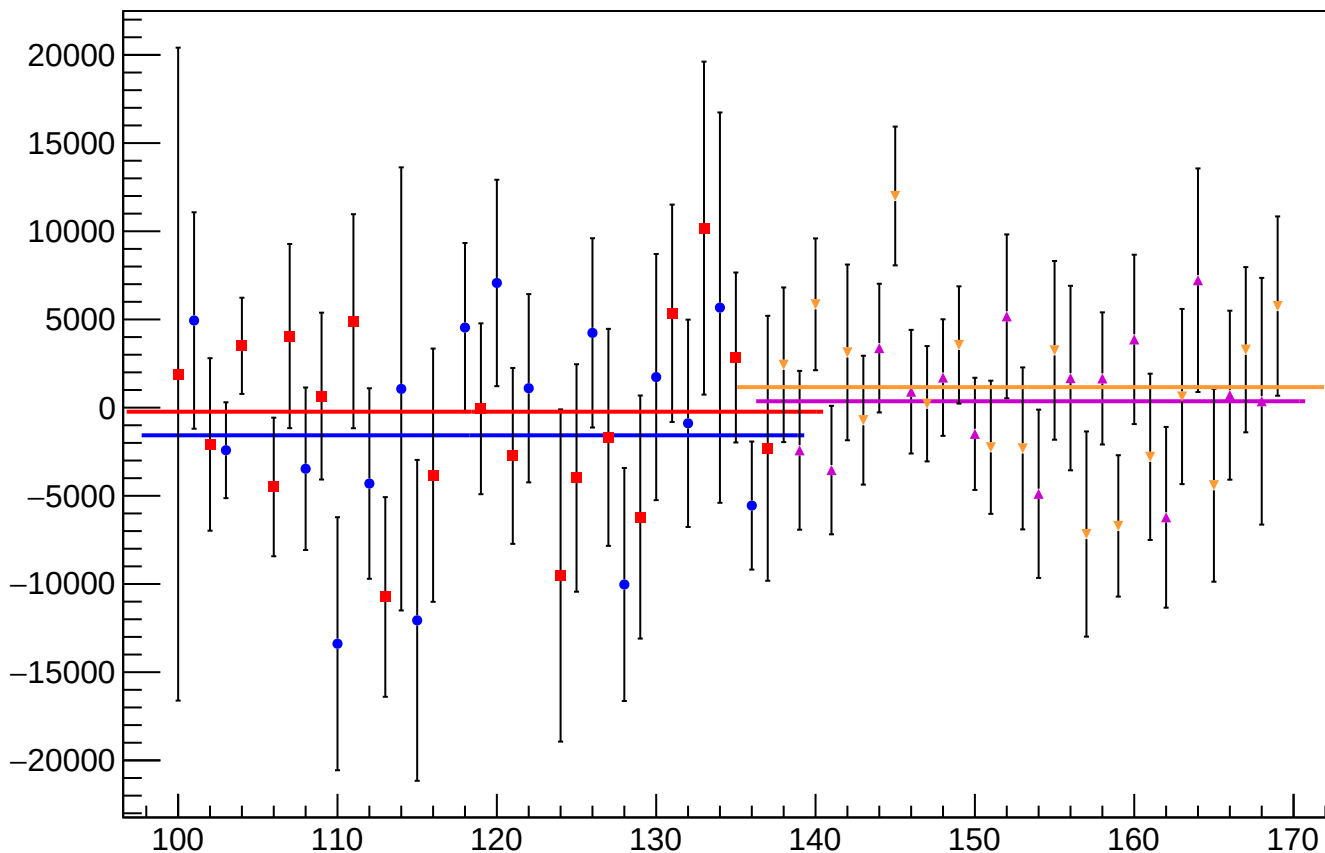
Right: 3156.830+/-0.604 χ^2/NDF : 1900042.9/34

In: 3630.742+/-0.594 χ^2/NDF : 1643550.2/30

Out: 3373.390+/-0.540 χ^2/NDF : 2346415.8/35

All: 3489.809+/-0.400 χ^2/NDF : 4092744.2/66

asym_usr_atr2_dd_mean vs Slug, Sign Corrected



Right In: -1569.809 $\pm$ 1312.937 χ^2/NDF : 14.5/15

Left Out: 1163.021 $\pm$ 1031.955 χ^2/NDF : 20.5/16

Right Out: -231.125 $\pm$ 1224.318 χ^2/NDF : 13.2/18

Left In: 361.458 $\pm$ 1091.055 χ^2/NDF : 8.6/14

Left: 784.536 $\pm$ 749.725 χ^2/NDF : 29.4/31

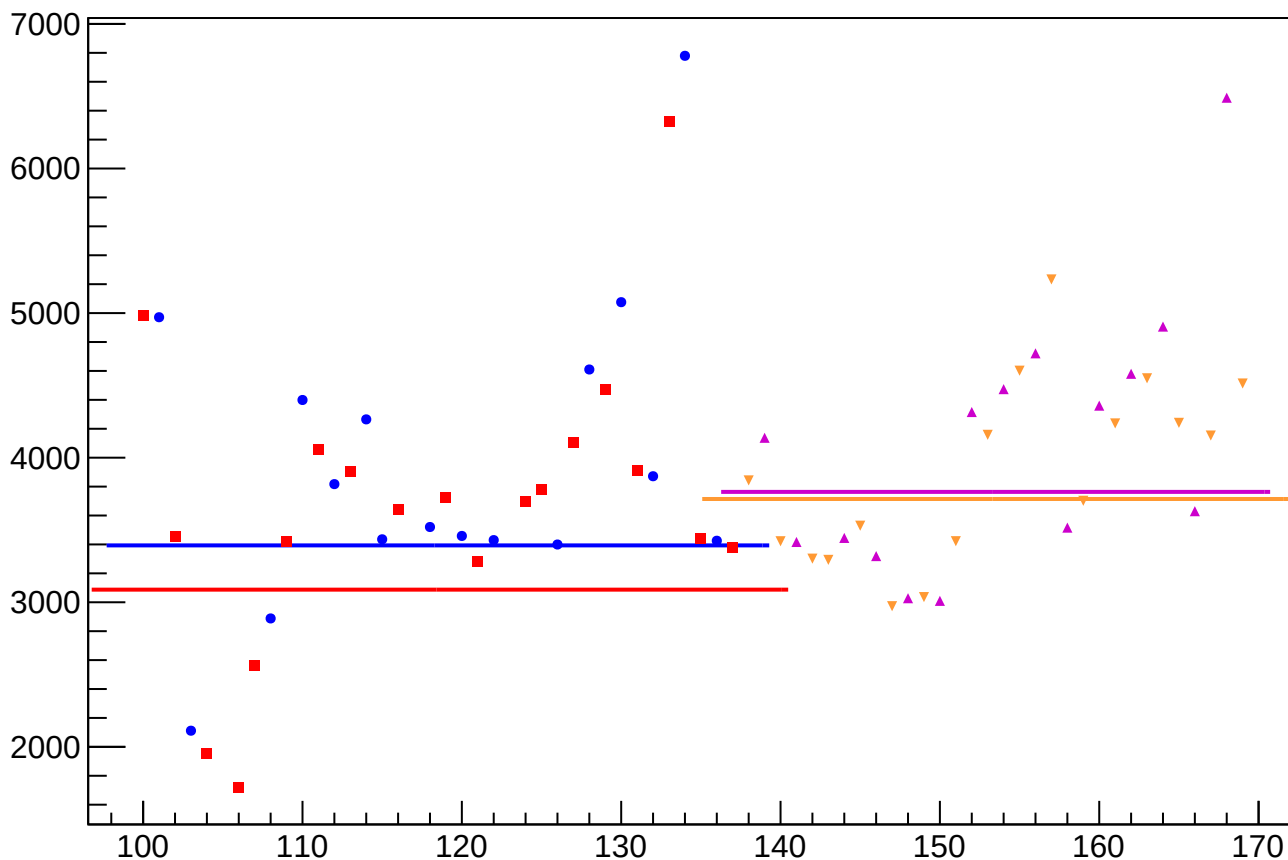
Right: -853.767 $\pm$ 895.415 χ^2/NDF : 28.2/34

In: -427.430 $\pm$ 839.133 χ^2/NDF : 24.3/30

Out: 583.951 $\pm$ 789.052 χ^2/NDF : 34.5/35

All: 109.340 $\pm$ 574.834 χ^2/NDF : 59.6/66

asym_usr_atr2_dd_rms vs Slug, Sign Corrected



Right In: 3393.365+/-0.928 χ^2/NDF : 1048707.6/15

Left Out: 3714.267+/-0.730 χ^2/NDF : 639678.2/16

Right Out: 3087.307+/-0.851 χ^2/NDF : 1328355.8/18

Left In: 3763.437+/-0.771 χ^2/NDF : 891234.8/14

Left: 3737.484+/-0.530 χ^2/NDF : 1533057.0/31

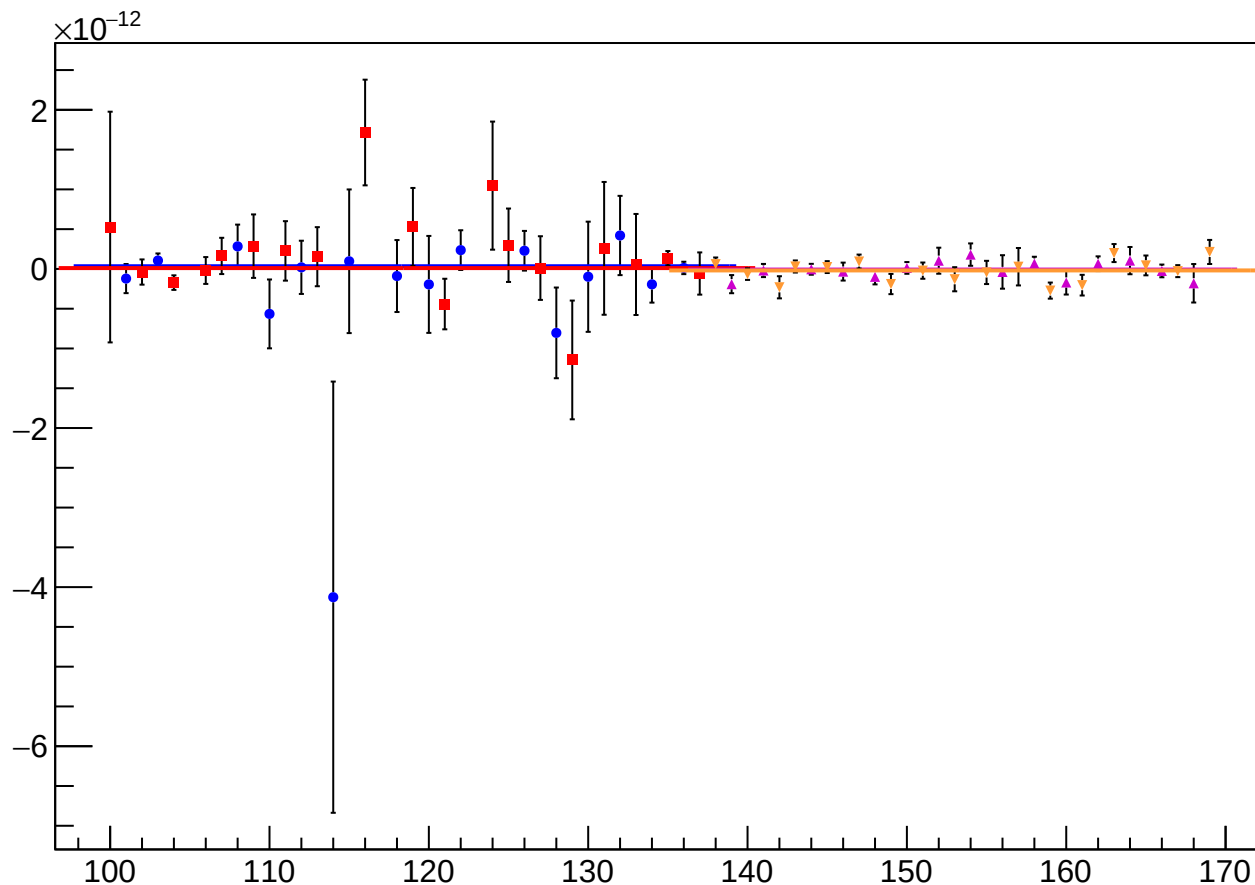
Right: 3227.090+/-0.627 χ^2/NDF : 2436107.0/34

In: 3612.269+/-0.593 χ^2/NDF : 2033932.6/30

Out: 3448.696+/-0.554 χ^2/NDF : 2280734.8/35

All: 3524.879+/-0.405 χ^2/NDF : 4355268.8/66

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 23.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 21.9/18

Left In: -0.000+/-0.000 χ^2/NDF : 9.5/14

Left: -0.000+/-0.000 χ^2/NDF : 32.6/31

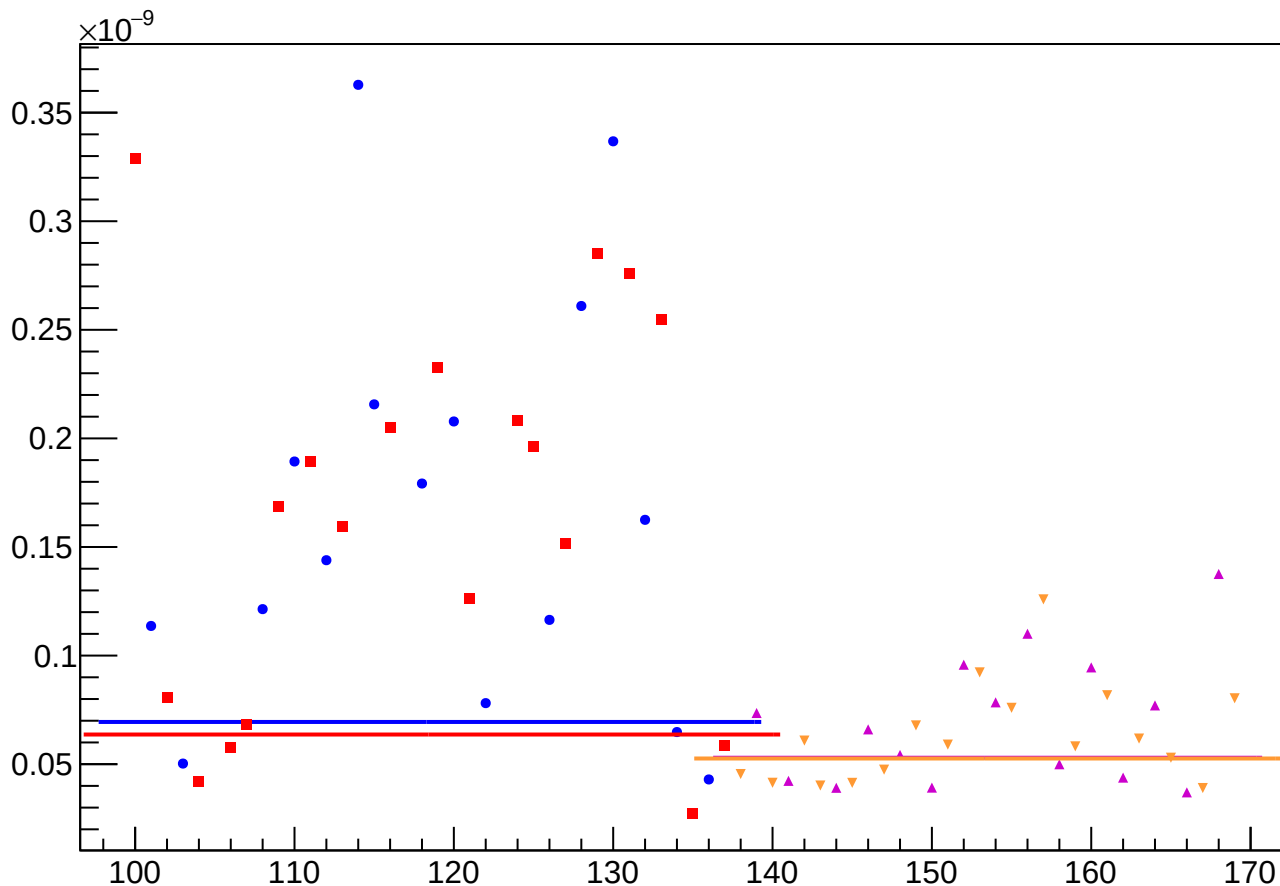
Right: 0.000+/-0.000 χ^2/NDF : 33.8/34

In: 0.000+/-0.000 χ^2/NDF : 21.8/30

Out: -0.000+/-0.000 χ^2/NDF : 45.2/35

All: -0.000+/-0.000 χ^2/NDF : 67.2/66

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1729471.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 844317.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2250342.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 1162709.5/14

Left: 0.000+/-0.000 χ^2/NDF : 2007214.1/31

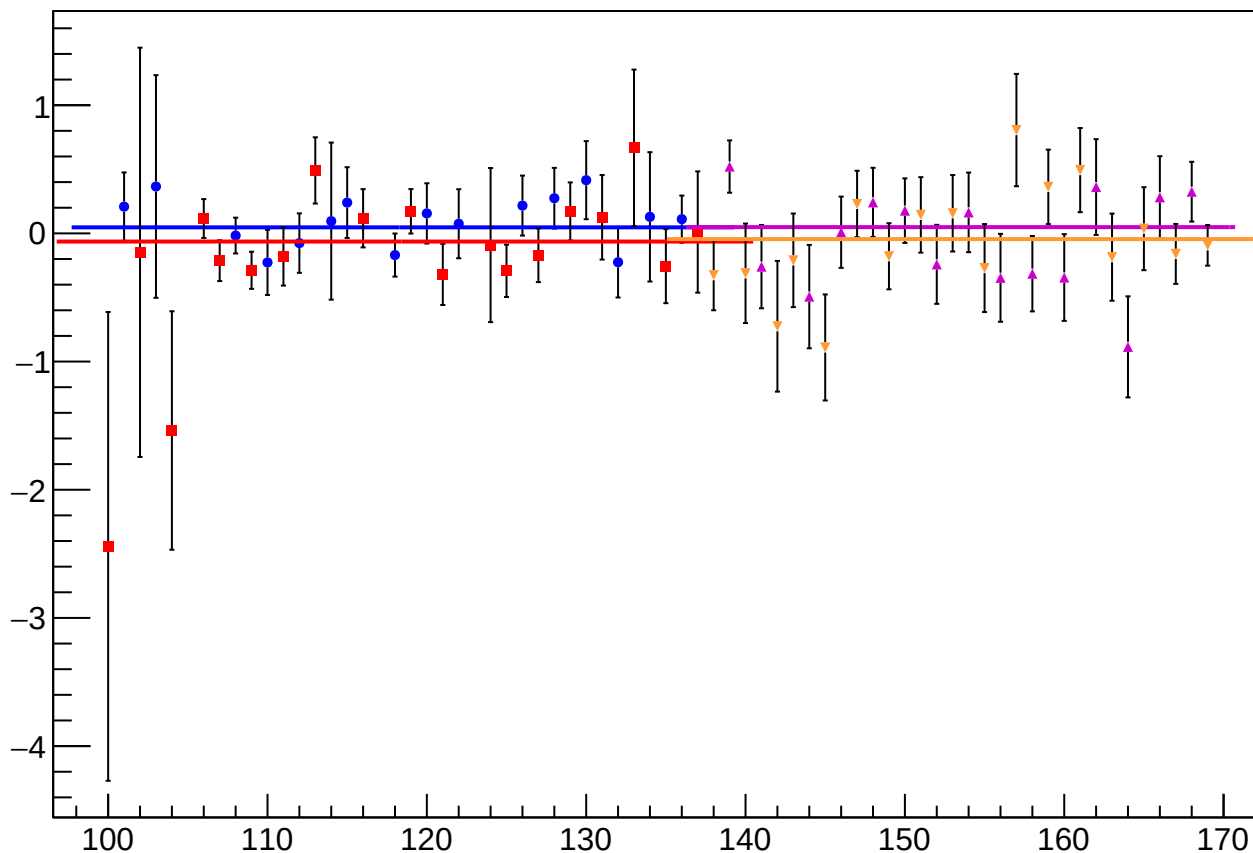
Right: 0.000+/-0.000 χ^2/NDF : 3993621.5/34

In: 0.000+/-0.000 χ^2/NDF : 3067454.6/30

Out: 0.000+/-0.000 χ^2/NDF : 3174315.1/35

All: 0.000+/-0.000 χ^2/NDF : 6248783.9/66

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 $\pm$ 0.060 χ^2 /NDF: 8.6/15

Left Out: -0.044 $\pm$ 0.071 χ^2 /NDF:19.4/16

Right Out: -0.064 $\pm$ 0.055 χ^2 /NDF: 22.2/18

Left In: 0.049 $\pm$ 0.076 χ^2 /NDF:22.4/14

Left: -0.001 $\pm$ 0.052 χ^2 /NDF: 42.5/31

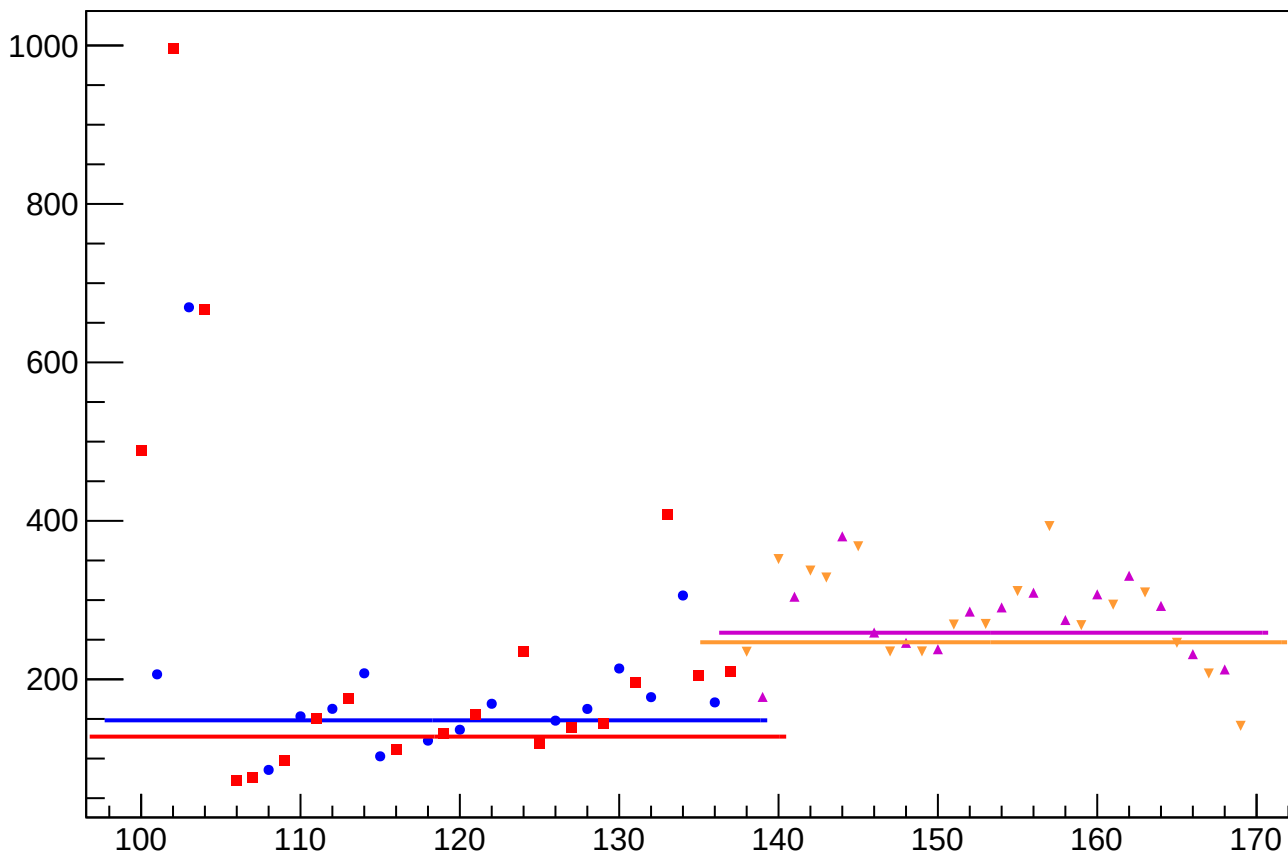
Right: -0.013 $\pm$ 0.040 χ^2 /NDF: 32.7/34

In: 0.048 $\pm$ 0.047 χ^2 /NDF:30.9/30

Out: -0.056 $\pm$ 0.043 χ^2 /NDF:41.7/35

All: -0.009 $\pm$ 0.032 χ^2 /NDF: 75.2/66

asym_usr_atr2_dd_dit_vs_Slug, Sign Corrected



Right In: 148.240 ± 0.042 χ^2/NDF : 1710035.6/15

Left Out: 246.780 ± 0.050 χ^2/NDF : 1874910.8/16

Right Out: 127.685 ± 0.039 χ^2/NDF : 2841780.7/18

Left In: 258.818 ± 0.054 χ^2/NDF : 863434.5/14

Left: 252.358 ± 0.037 χ^2/NDF : 2765344.8/31

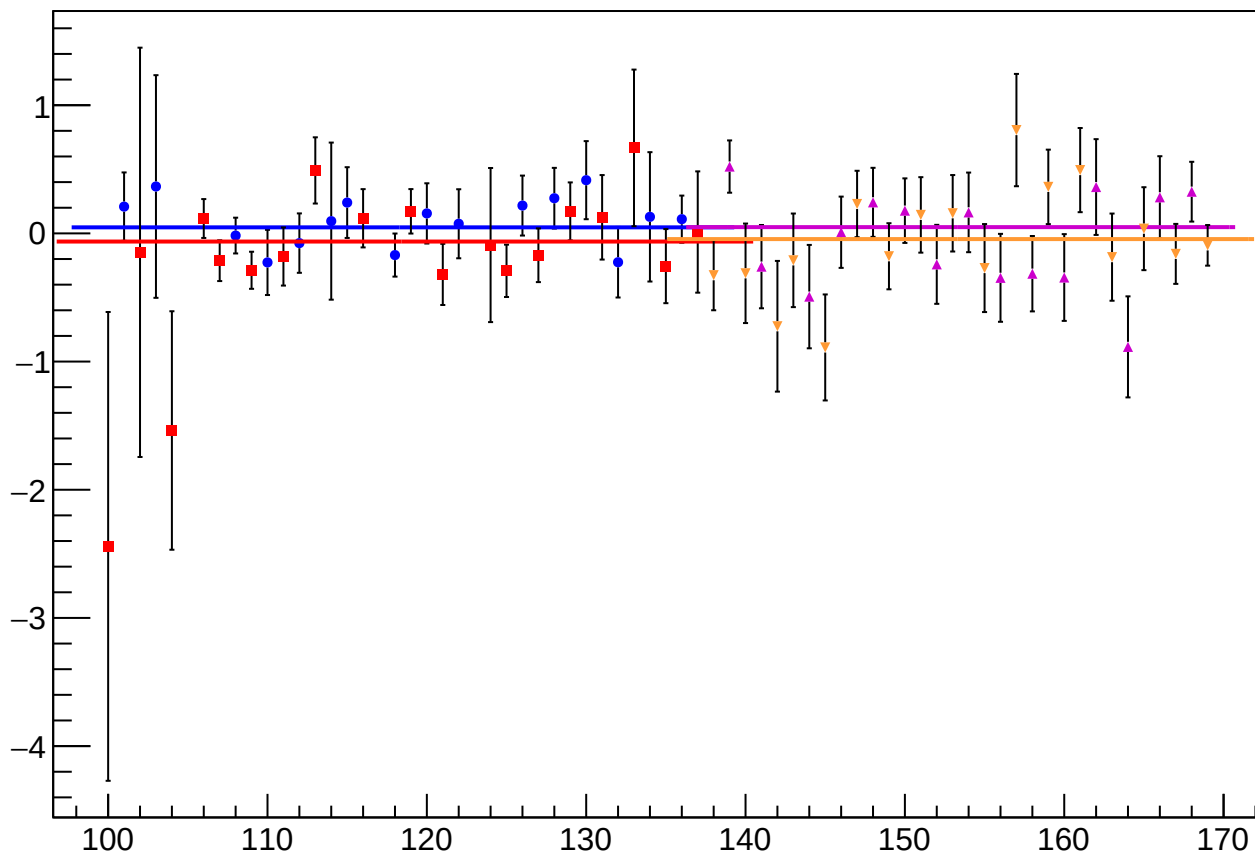
Right: 137.004 ± 0.029 χ^2/NDF : 4680006.1/34

In: 190.791 ± 0.033 χ^2/NDF : 5184929.0/30

Out: 172.383 ± 0.031 χ^2/NDF : 8279239.7/35

All: 180.798 ± 0.023 χ^2/NDF : 13630120.2/66

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 ± 0.060 $\chi^2/\text{NDF}: 8.6/15$

Left Out: -0.044 ± 0.071 $\chi^2/\text{NDF}: 19.4/16$

Right Out: -0.064 ± 0.055 $\chi^2/\text{NDF}: 22.2/18$

Left In: 0.049 ± 0.076 $\chi^2/\text{NDF}: 22.4/14$

Left: -0.001 ± 0.052 $\chi^2/\text{NDF}: 42.5/31$

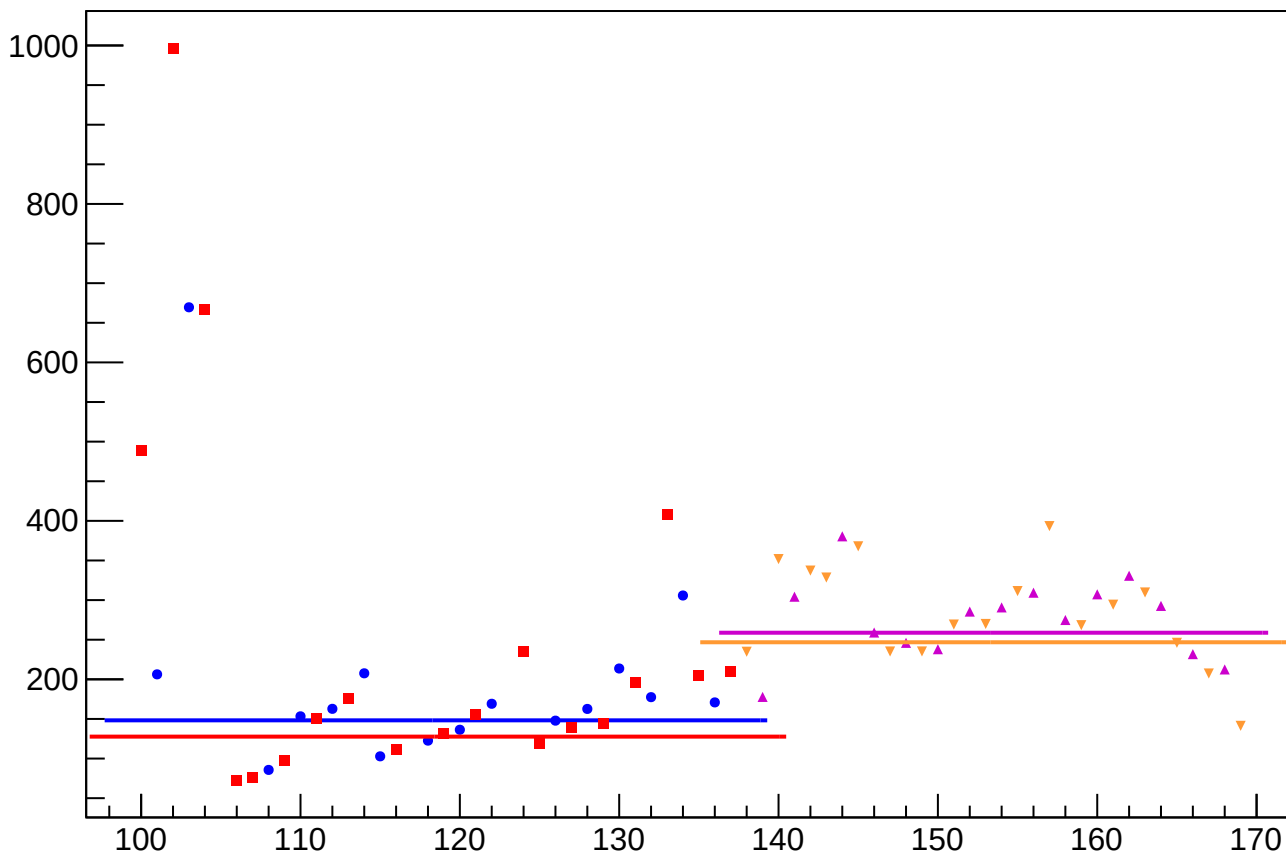
Right: -0.013 ± 0.040 $\chi^2/\text{NDF}: 32.7/34$

In: 0.048 ± 0.047 $\chi^2/\text{NDF}: 30.9/30$

Out: -0.056 ± 0.043 $\chi^2/\text{NDF}: 41.7/35$

All: -0.009 ± 0.032 $\chi^2/\text{NDF}: 75.2/66$

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 148.240 $\pm$ 0.042 χ^2 /NDF: 1710035.6/15

Left Out: 246.780 $\pm$ 0.050 χ^2 /NDF:1874910.8/16

Right Out: 127.685 $\pm$ 0.039 χ^2 /NDF: 2841780.7/18

Left In: 258.818 $\pm$ 0.054 χ^2 /NDF:863434.5/14

Left: 252.358 $\pm$ 0.037 χ^2 /NDF: 2765344.8/31

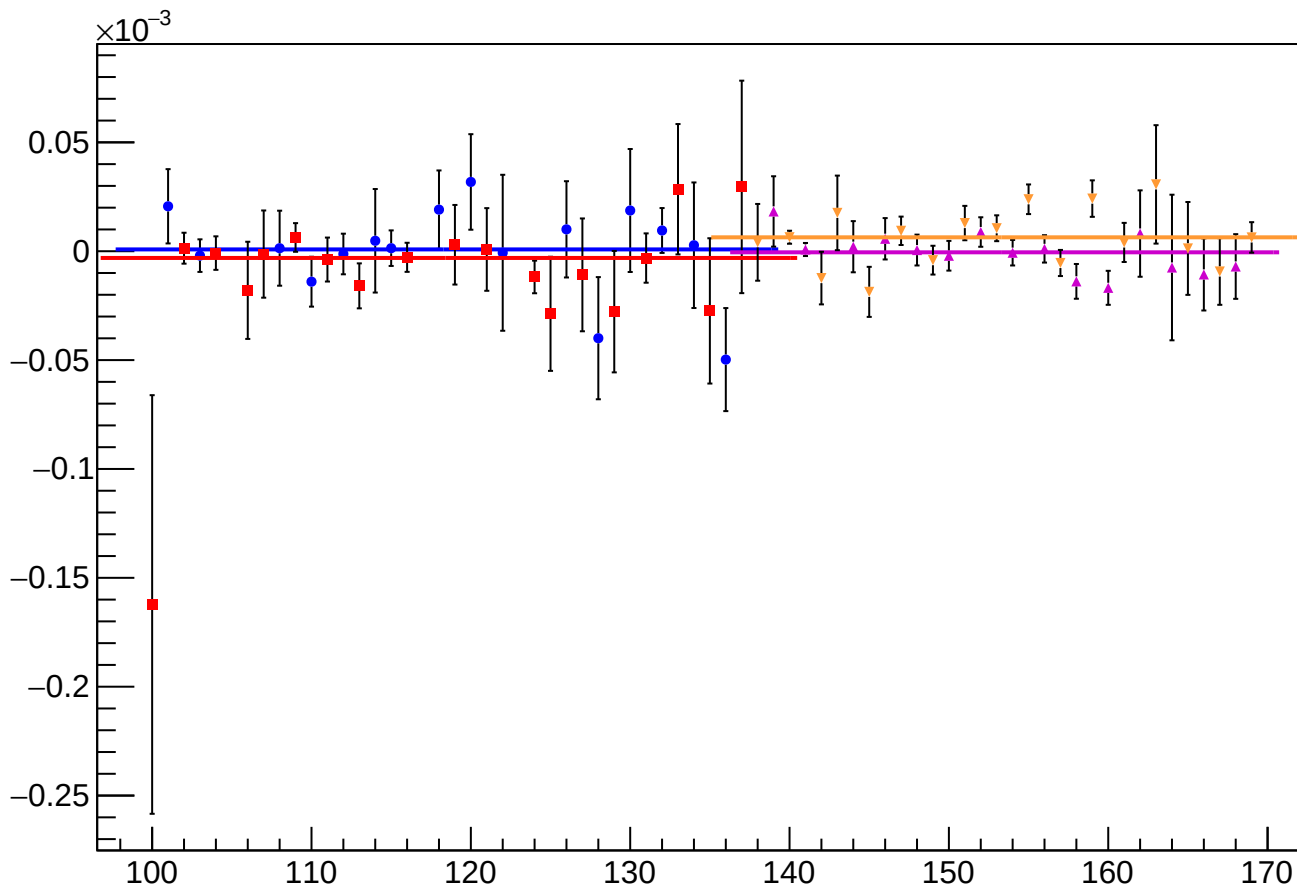
Right: 137.004 $\pm$ 0.029 χ^2 /NDF: 4680006.1/34

In: 190.791 $\pm$ 0.033 χ^2 /NDF:5184929.0/30

Out: 172.383 $\pm$ 0.031 χ^2 /NDF:8279239.7/35

All: 180.798 $\pm$ 0.023 χ^2 /NDF: 13630120.2/60

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 14.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 28.4/16

Right Out: -0.000+/-0.000 χ^2/NDF : 12.7/18

Left In: -0.000+/-0.000 χ^2/NDF : 12.0/14

Left: 0.000+/-0.000 χ^2/NDF : 47.8/31

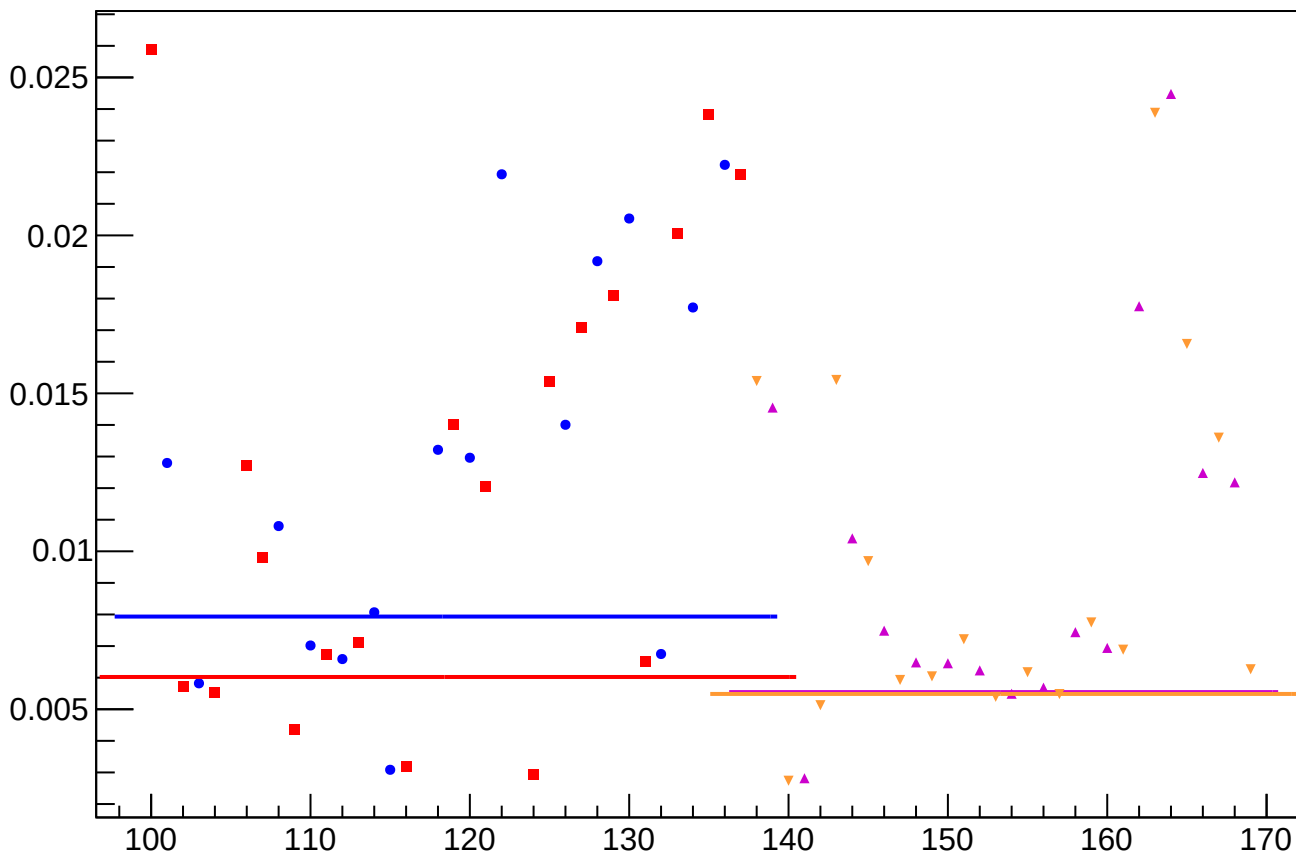
Right: -0.000+/-0.000 χ^2/NDF : 27.8/34

In: -0.000+/-0.000 χ^2/NDF : 26.4/30

Out: 0.000+/-0.000 χ^2/NDF : 50.1/35

All: 0.000+/-0.000 χ^2/NDF : 79.4/66

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2/NDF : 3577687.8/15

Left Out: 0.005 $\pm$ 0.000 χ^2/NDF : 5640794.2/16

Right Out: 0.006 $\pm$ 0.000 χ^2/NDF : 4009592.0/18

Left In: 0.006 $\pm$ 0.000 χ^2/NDF : 5119709.1/14

Left: 0.006 $\pm$ 0.000 χ^2/NDF : 10761554.9/31

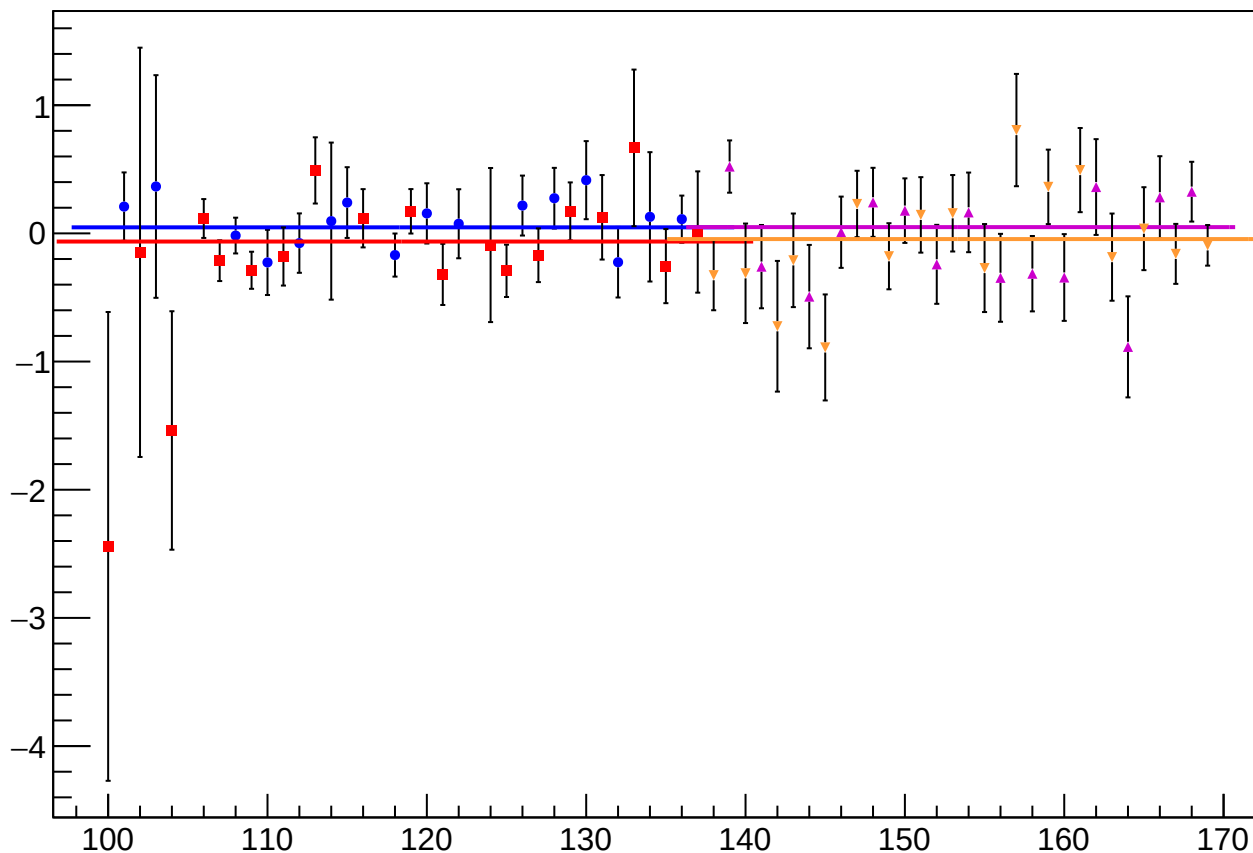
Right: 0.007 $\pm$ 0.000 χ^2/NDF : 7973863.6/34

In: 0.006 $\pm$ 0.000 χ^2/NDF : 9441074.9/30

Out: 0.006 $\pm$ 0.000 χ^2/NDF : 9708108.7/35

All: 0.006 $\pm$ 0.000 χ^2/NDF : 19224067.5/66

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 ± 0.060 $\chi^2/\text{NDF}: 8.6/15$

Left Out: -0.044 ± 0.071 $\chi^2/\text{NDF}: 19.4/16$

Right Out: -0.064 ± 0.055 $\chi^2/\text{NDF}: 22.2/18$

Left In: 0.049 ± 0.076 $\chi^2/\text{NDF}: 22.4/14$

Left: -0.001 ± 0.052 $\chi^2/\text{NDF}: 42.5/31$

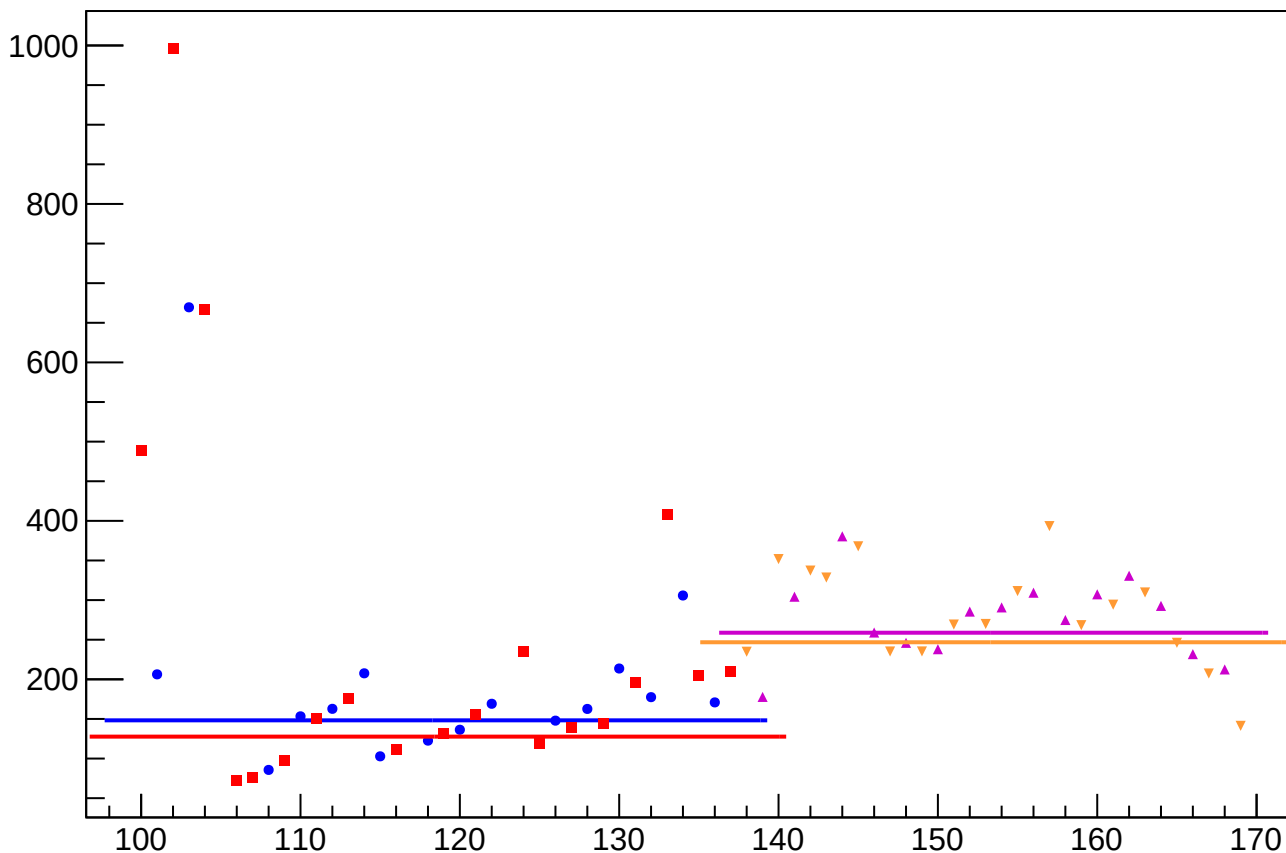
Right: -0.013 ± 0.040 $\chi^2/\text{NDF}: 32.7/34$

In: 0.048 ± 0.047 $\chi^2/\text{NDF}: 30.9/30$

Out: -0.056 ± 0.043 $\chi^2/\text{NDF}: 41.7/35$

All: -0.009 ± 0.032 $\chi^2/\text{NDF}: 75.2/66$

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 148.238+/-0.042 χ^2/NDF : 1710114.4/15

Left Out: 246.782+/-0.050 χ^2/NDF : 1874995.5/16

Right Out: 127.685+/-0.039 χ^2/NDF : 2841772.5/18

Left In: 258.822+/-0.054 χ^2/NDF : 863393.2/14

Left: 252.361+/-0.037 χ^2/NDF : 2765396.8/31

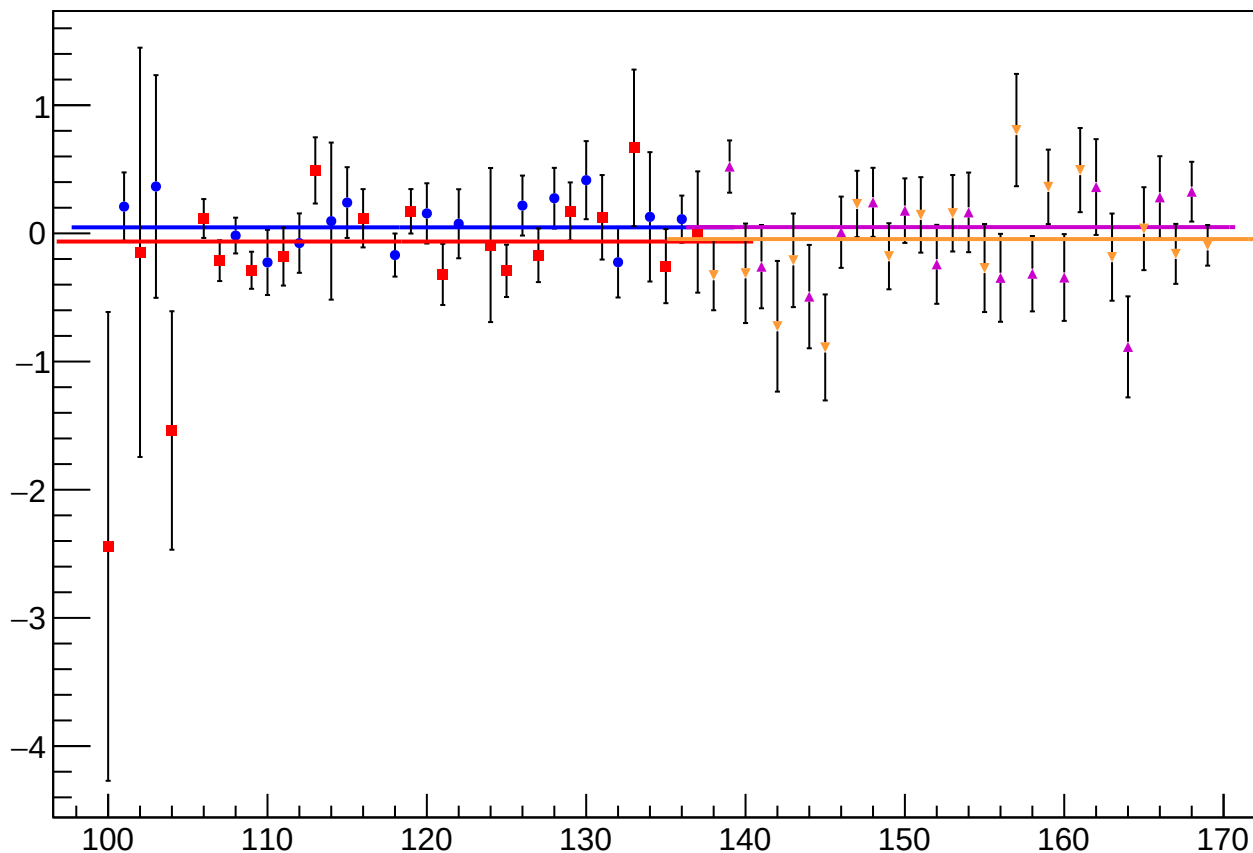
Right: 137.003+/-0.029 χ^2/NDF : 4680047.3/34

In: 190.789+/-0.033 χ^2/NDF : 5185244.2/30

Out: 172.383+/-0.031 χ^2/NDF : 8279380.0/35

All: 180.798+/-0.023 χ^2/NDF : 13630545.4/60

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.047 ± 0.060 $\chi^2/\text{NDF}: 8.6/15$

Left Out: -0.044 ± 0.071 $\chi^2/\text{NDF}: 19.4/16$

Right Out: -0.064 ± 0.055 $\chi^2/\text{NDF}: 22.2/18$

Left In: 0.049 ± 0.076 $\chi^2/\text{NDF}: 22.4/14$

Left: -0.001 ± 0.052 $\chi^2/\text{NDF}: 42.5/31$

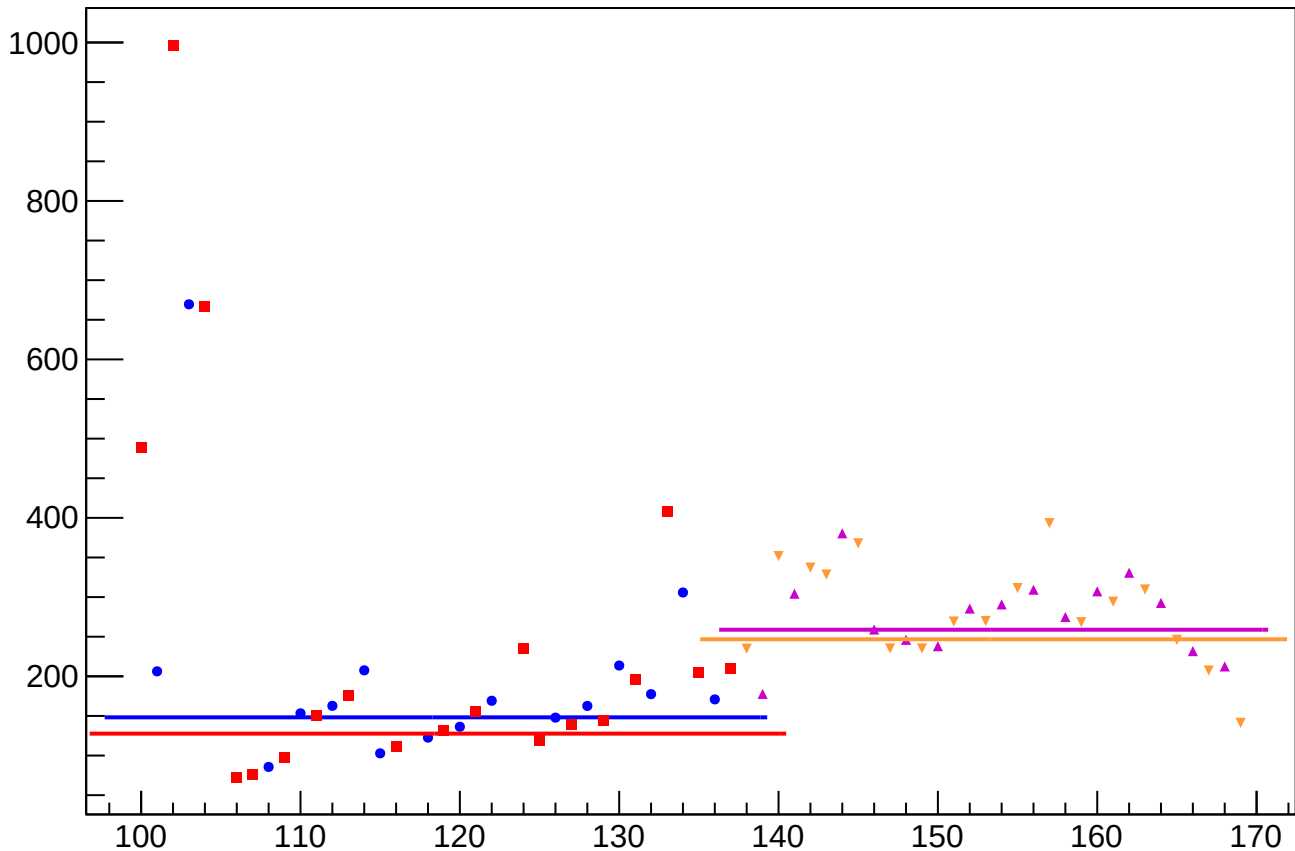
Right: -0.013 ± 0.040 $\chi^2/\text{NDF}: 32.7/34$

In: 0.048 ± 0.047 $\chi^2/\text{NDF}: 30.9/30$

Out: -0.056 ± 0.043 $\chi^2/\text{NDF}: 41.7/35$

All: -0.009 ± 0.032 $\chi^2/\text{NDF}: 75.2/66$

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 148.238+/-0.042 χ^2/NDF : 1710114.4/15

Left Out: 246.782+/-0.050 χ^2/NDF : 1874995.5/16

Right Out: 127.685+/-0.039 χ^2/NDF : 2841772.5/18

Left In: 258.822+/-0.054 χ^2/NDF : 863393.2/14

Left: 252.361+/-0.037 χ^2/NDF : 2765396.8/31

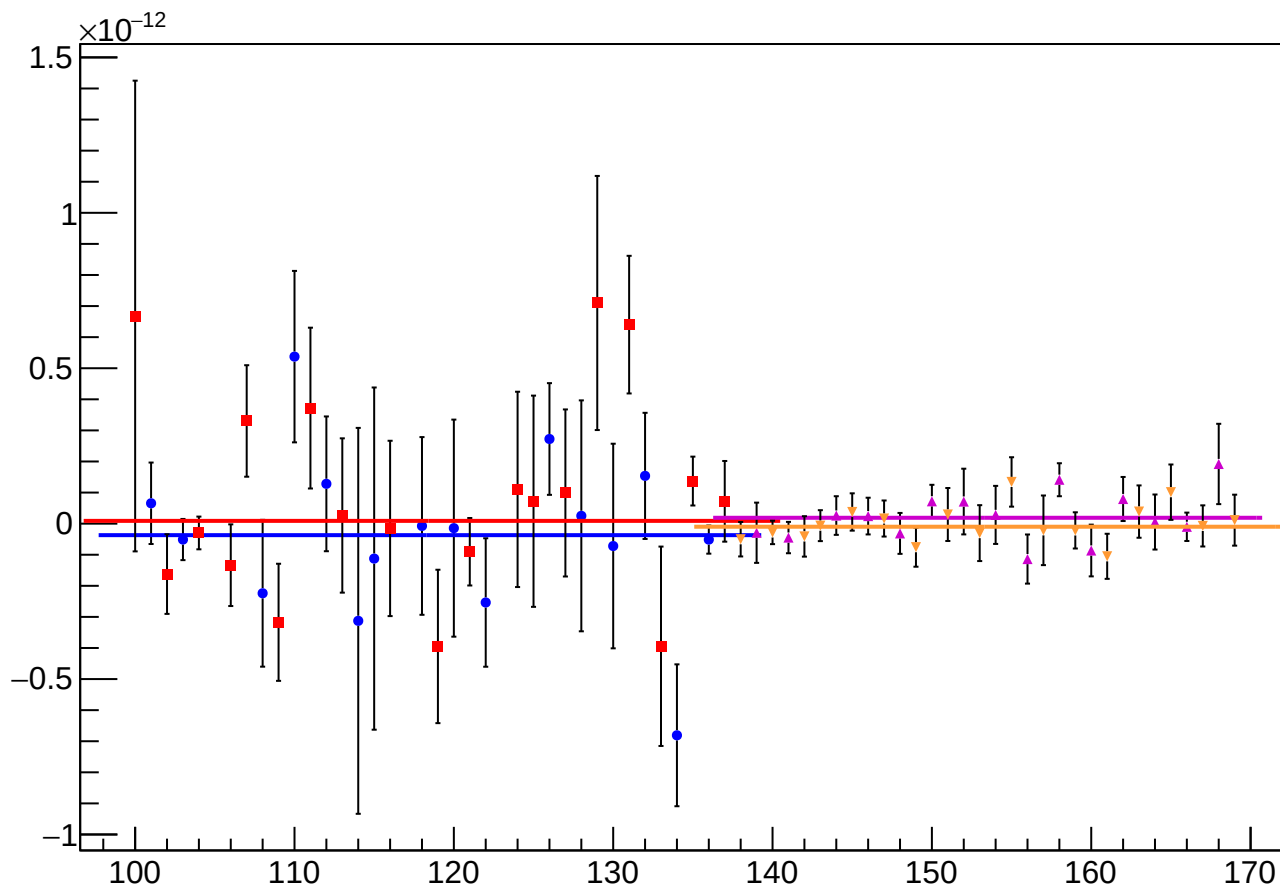
Right: 137.003+/-0.029 χ^2/NDF : 4680047.3/34

In: 190.789+/-0.033 χ^2/NDF : 5185244.2/30

Out: 172.383+/-0.031 χ^2/NDF : 8279380.0/35

All: 180.798+/-0.023 χ^2/NDF : 13630545.4/60

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 19.5/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 10.2/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 31.8/18

Left In: 0.000 ± 0.000 χ^2/NDF : 16.4/14

Left: 0.000 ± 0.000 χ^2/NDF : 28.1/31

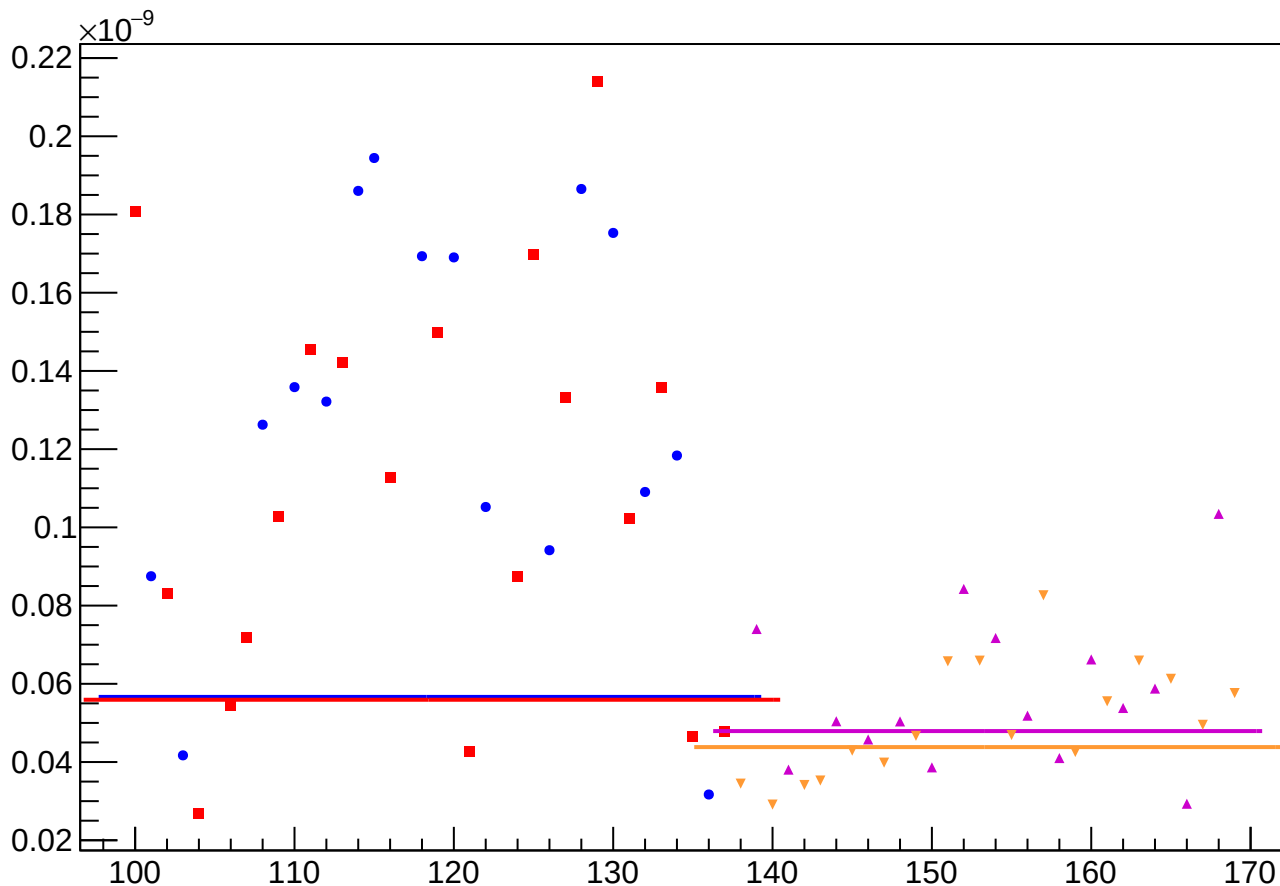
Right: -0.000 ± 0.000 χ^2/NDF : 52.3/34

In: 0.000 ± 0.000 χ^2/NDF : 38.2/30

Out: -0.000 ± 0.000 χ^2/NDF : 42.3/35

All: -0.000 ± 0.000 χ^2/NDF : 80.9/66

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3113213.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :1315746.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2732977.9/18

Left In: 0.000+/-0.000 χ^2/NDF :1538161.2/14

Left: 0.000+/-0.000 χ^2/NDF : 2916084.0/31

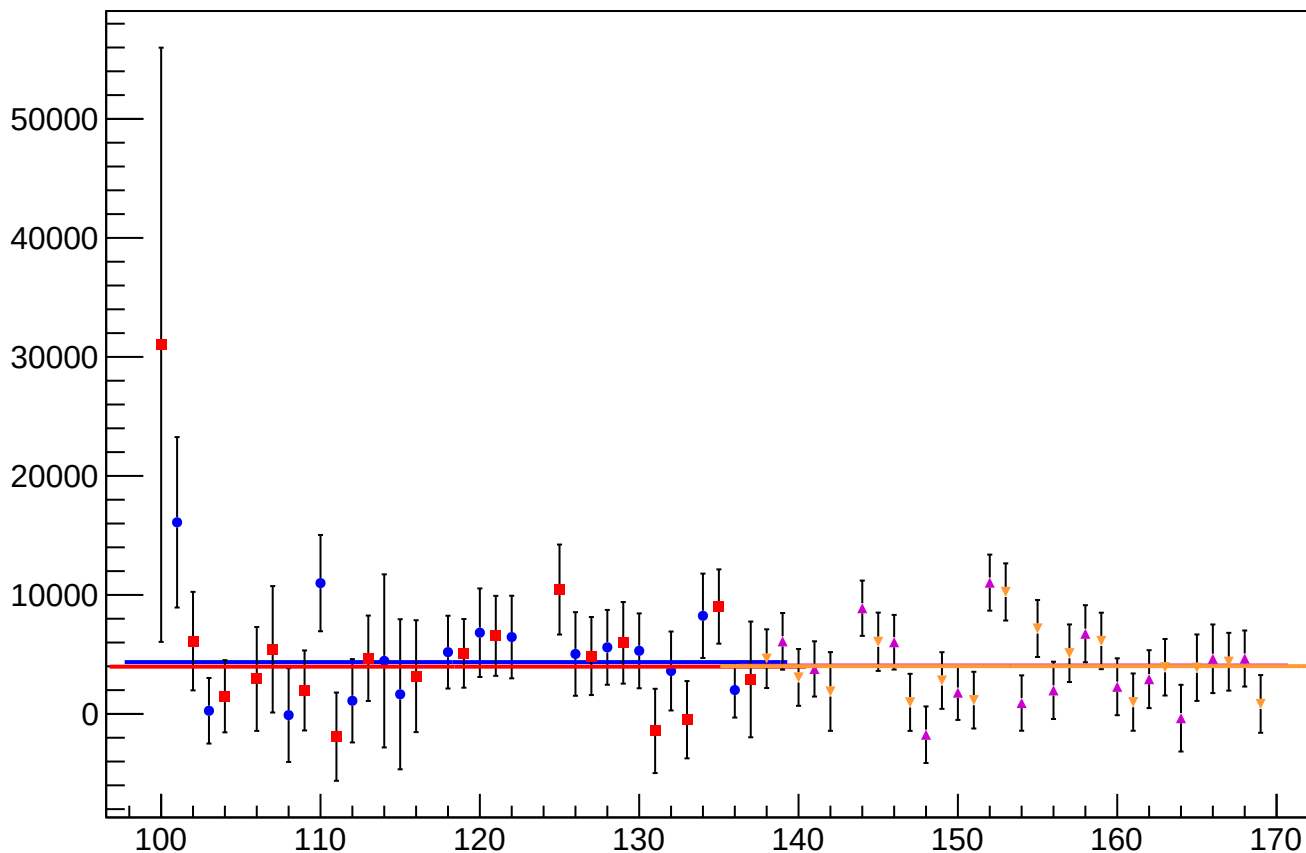
Right: 0.000+/-0.000 χ^2/NDF : 5846702.2/34

In: 0.000+/-0.000 χ^2/NDF :4765998.0/30

Out: 0.000+/-0.000 χ^2/NDF :4280089.7/35

All: 0.000+/-0.000 χ^2/NDF : 9111383.6/66

reg_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4354.350+/-875.155 χ^2/NDF : 13.4/15

Left Out: 4015.929+/-615.574 χ^2/NDF : 17.4/15

Right Out: 3971.679+/-871.305 χ^2/NDF : 16.2/17

Left In: 4063.968+/-621.644 χ^2/NDF : 28.7/14

Left: 4039.713+/-437.407 χ^2/NDF : 46.1/30

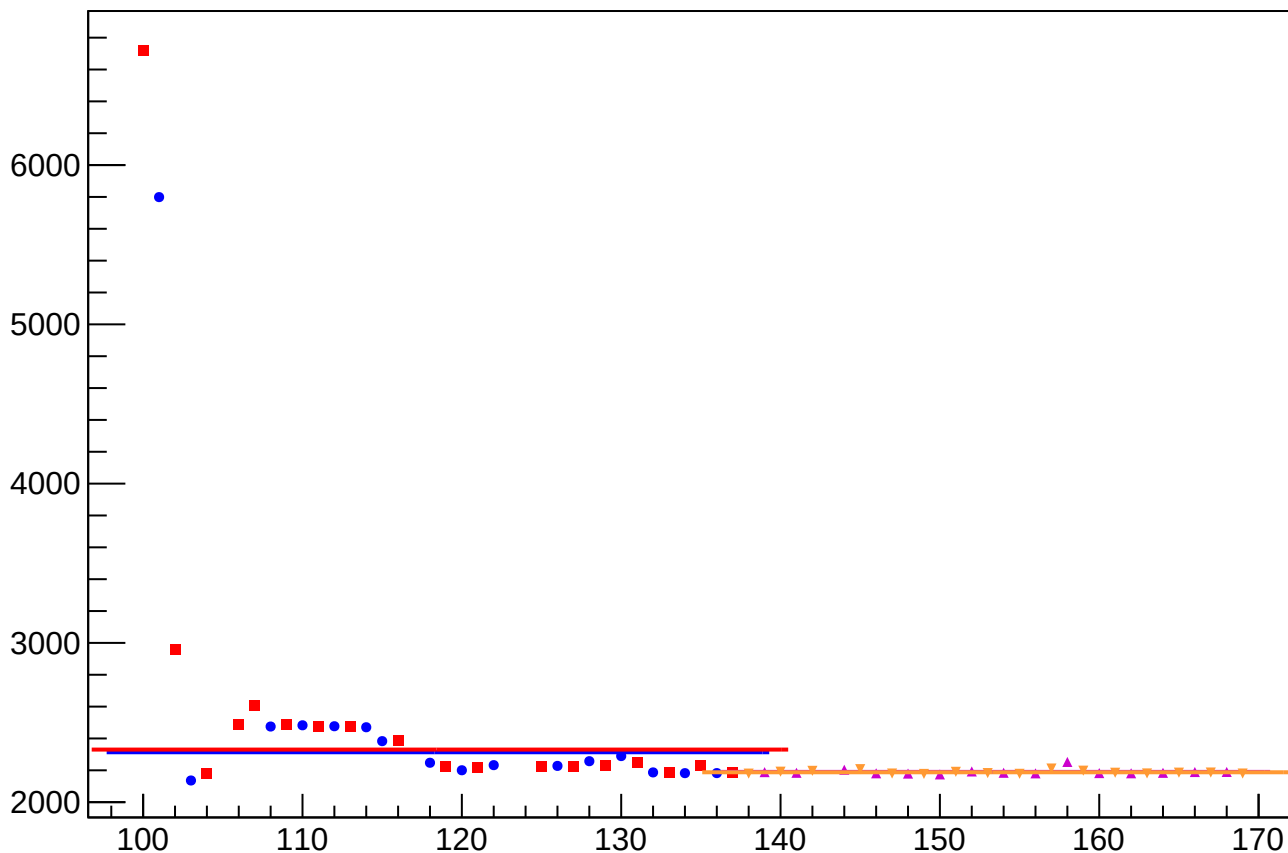
Right: 4162.171+/-617.462 χ^2/NDF : 29.6/33

In: 4161.349+/-506.800 χ^2/NDF : 42.1/30

Out: 4001.196+/-502.759 χ^2/NDF : 33.6/33

All: 4080.631+/-356.924 χ^2/NDF : 75.8/64

reg_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2313.413 $\pm$ 0.619 χ^2 /NDF: 512371.8/15

Left Out: 2187.704 $\pm$ 0.435 χ^2 /NDF: 545.3/15

Right Out: 2330.200 $\pm$ 0.616 χ^2 /NDF: 151210.5/17

Left In: 2190.079 $\pm$ 0.440 χ^2 /NDF: 1701.7/14

Left: 2188.880 $\pm$ 0.309 χ^2 /NDF: 2261.7/30

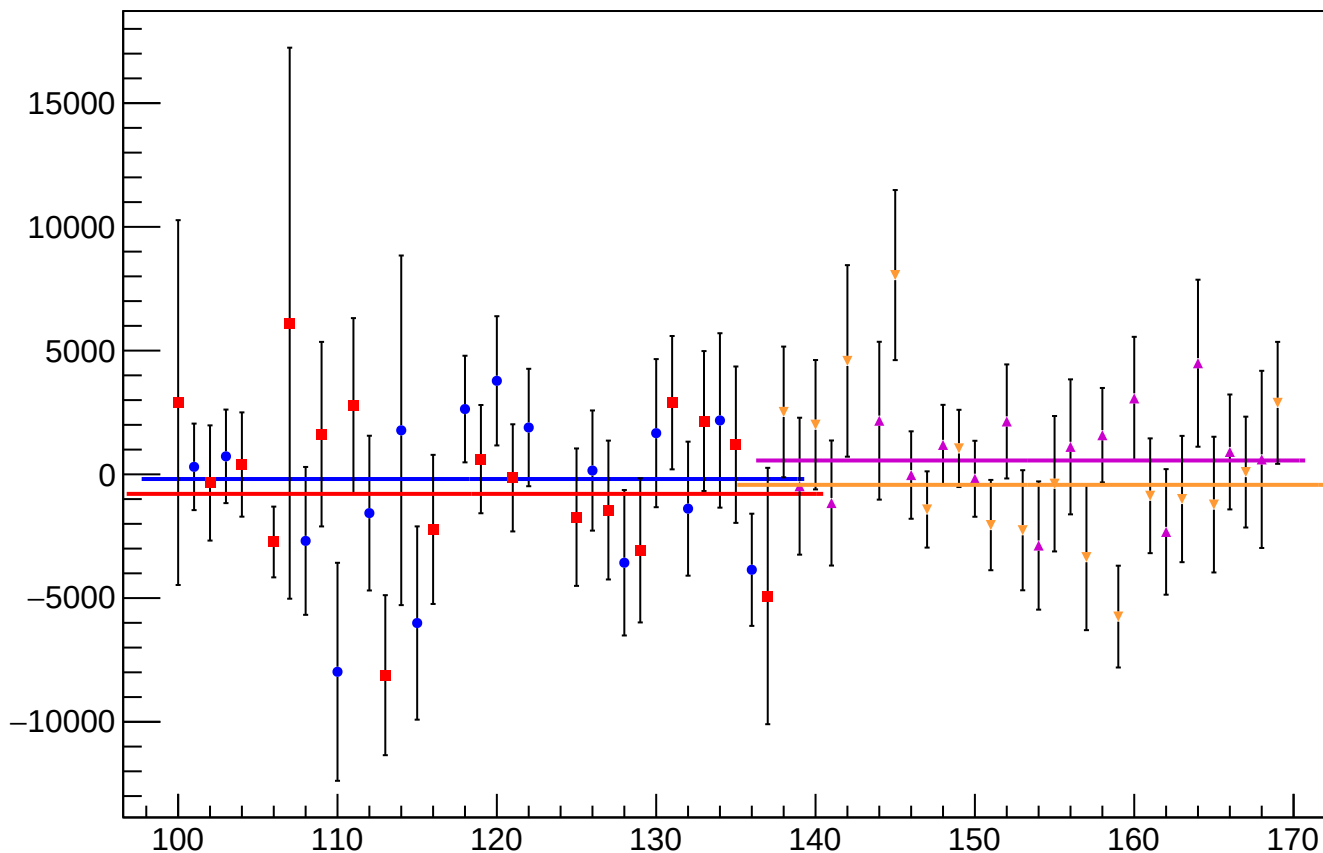
Right: 2321.844 $\pm$ 0.437 χ^2 /NDF: 663951.9/33

In: 2231.439 $\pm$ 0.358 χ^2 /NDF: 540474.5/30

Out: 2235.148 $\pm$ 0.356 χ^2 /NDF: 187438.6/33

All: 2233.309 $\pm$ 0.252 χ^2 /NDF: 727967.1/64

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -188.660 $\pm$ 658.334 χ^2 /NDF: 16.4/15

Left Out: -424.315 $\pm$ 571.243 χ^2 /NDF:22.2/15

Right Out: -789.317 $\pm$ 634.900 χ^2 /NDF: 14.9/17

Left In: 560.278 $\pm$ 584.583 χ^2 /NDF:7.6/14

Left: 56.620 $\pm$ 408.565 χ^2 /NDF: 31.3/30

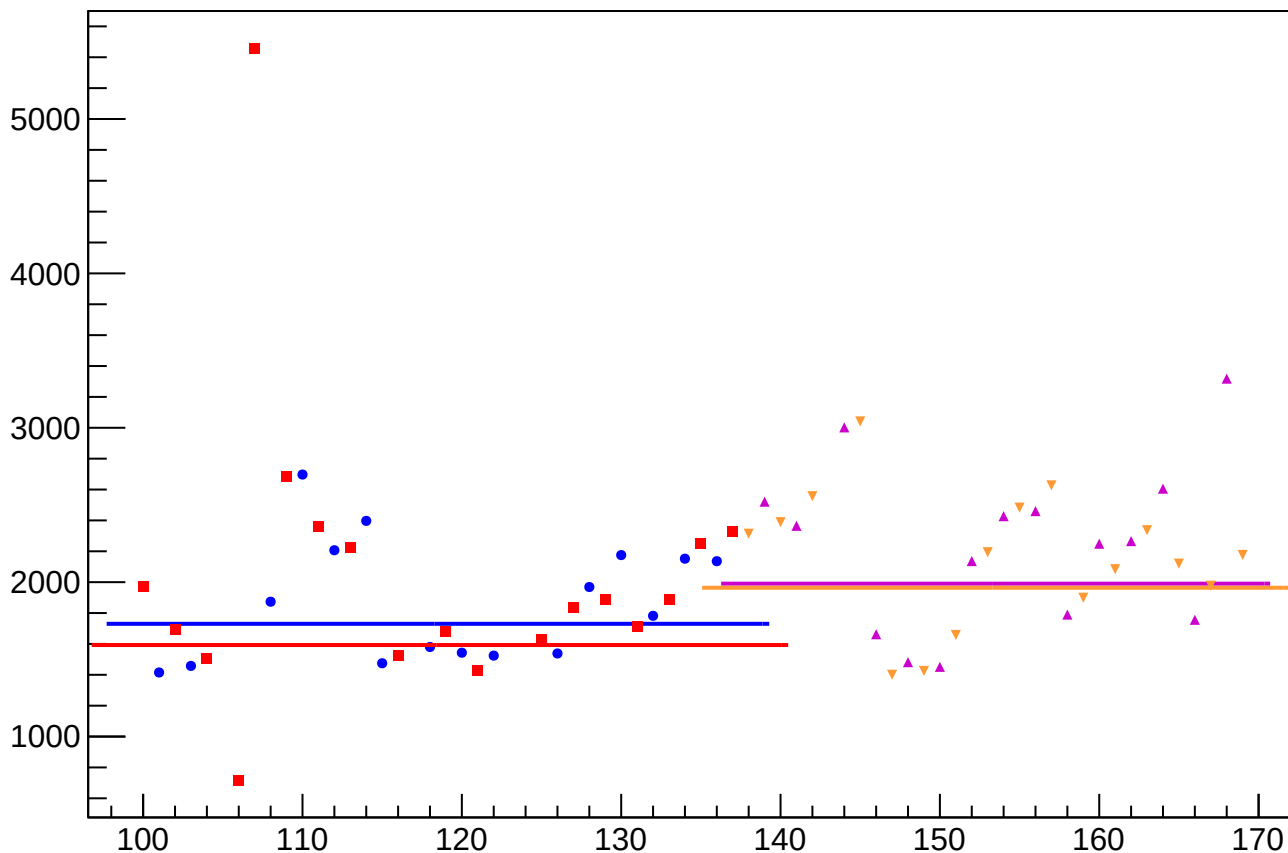
Right: -499.869 $\pm$ 457.002 χ^2 /NDF: 31.8/33

In: 230.093 $\pm$ 437.121 χ^2 /NDF:24.8/30

Out: -587.606 $\pm$ 424.657 χ^2 /NDF:37.3/33

All: -190.580 $\pm$ 304.589 χ^2 /NDF: 63.9/64

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1730.288+/-0.466

χ^2/NDF : 478932.0/15

Left Out: 1963.832+/-0.404

χ^2/NDF : 1156367.9/15

Right Out: 1592.824+/-0.449

χ^2/NDF : 1556204.8/17

Left In: 1990.335+/-0.413

χ^2/NDF : 1385114.6/14

Left: 1976.777+/-0.289 χ^2/NDF : 2543585.4/30

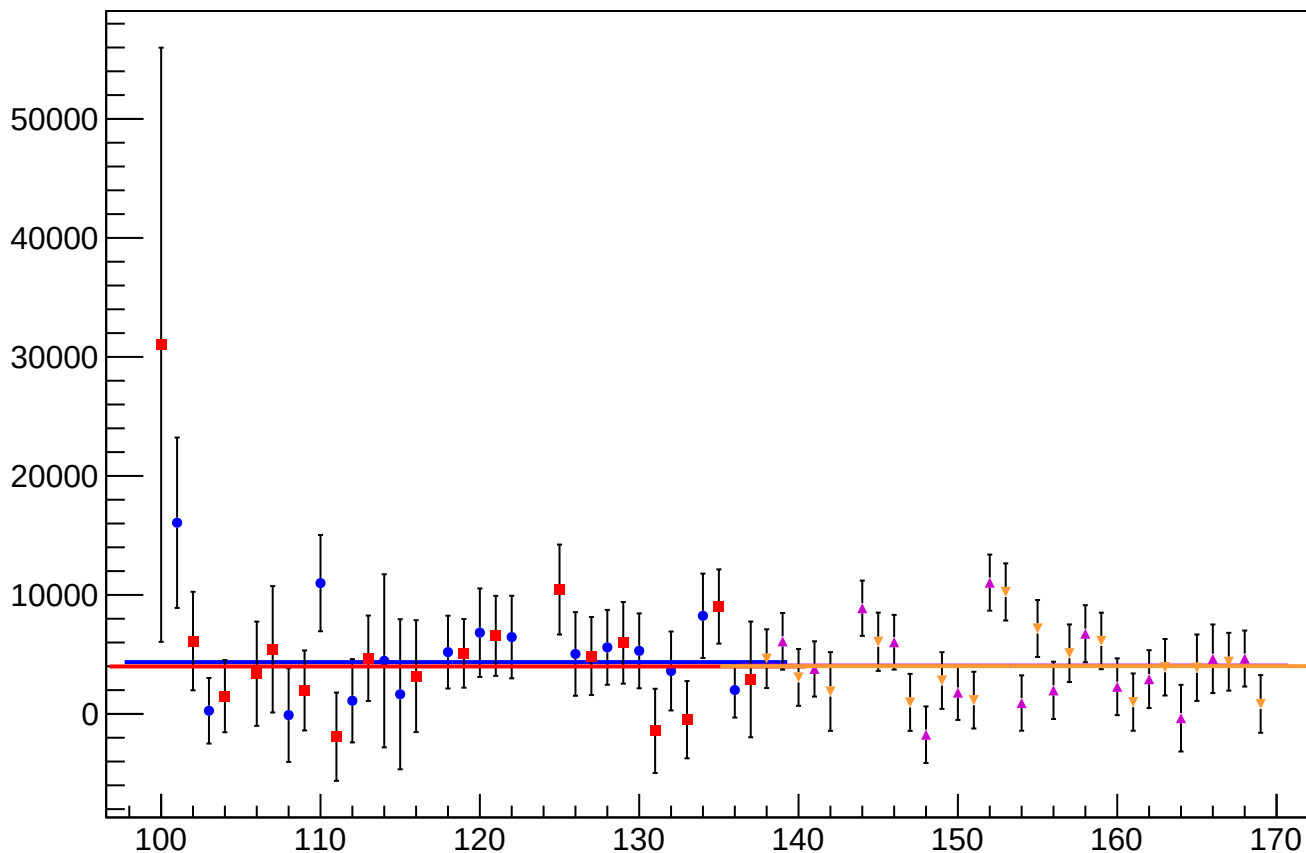
Right: 1659.066+/-0.323 χ^2/NDF : 2080315.9/33

In: 1875.688+/-0.309 χ^2/NDF : 2038530.2/30

Out: 1797.854+/-0.300 χ^2/NDF : 3089988.0/33

All: 1835.645+/-0.215 χ^2/NDF : 5161140.2/64

cor_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4353.670 $\pm$ 875.155 χ^2 /NDF: 13.4/15

Left Out: 4015.824 $\pm$ 615.574 χ^2 /NDF:17.4/15

Right Out: 3989.884 $\pm$ 871.455 χ^2 /NDF: 16.1/17

Left In: 4064.093 $\pm$ 621.644 χ^2 /NDF:28.7/14

Left: 4039.721 $\pm$ 437.407 χ^2 /NDF: 46.1/30

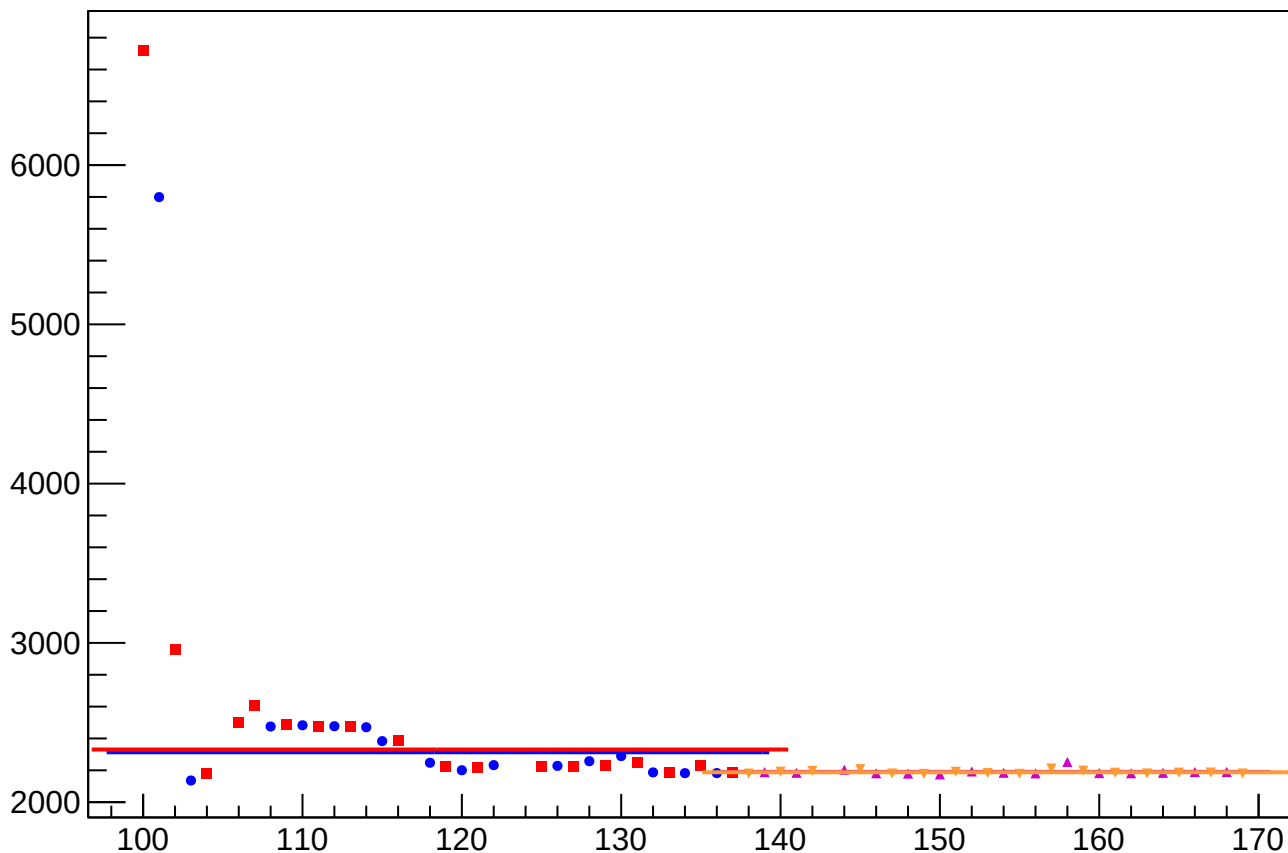
Right: 4171.006 $\pm$ 617.516 χ^2 /NDF: 29.6/33

In: 4161.204 $\pm$ 506.800 χ^2 /NDF:42.1/30

Out: 4007.189 $\pm$ 502.788 χ^2 /NDF:33.6/33

All: 4083.584 $\pm$ 356.935 χ^2 /NDF: 75.7/64

cor_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2313.413+/-0.619 χ^2/NDF : 512372.3/15

Left Out: 2187.704+/-0.435 χ^2/NDF : 545.3/15

Right Out: 2330.570+/-0.616 χ^2/NDF : 151556.6/17

Left In: 2190.079+/-0.440 χ^2/NDF : 1701.7/14

Left: 2188.880+/-0.309 χ^2/NDF : 2261.7/30

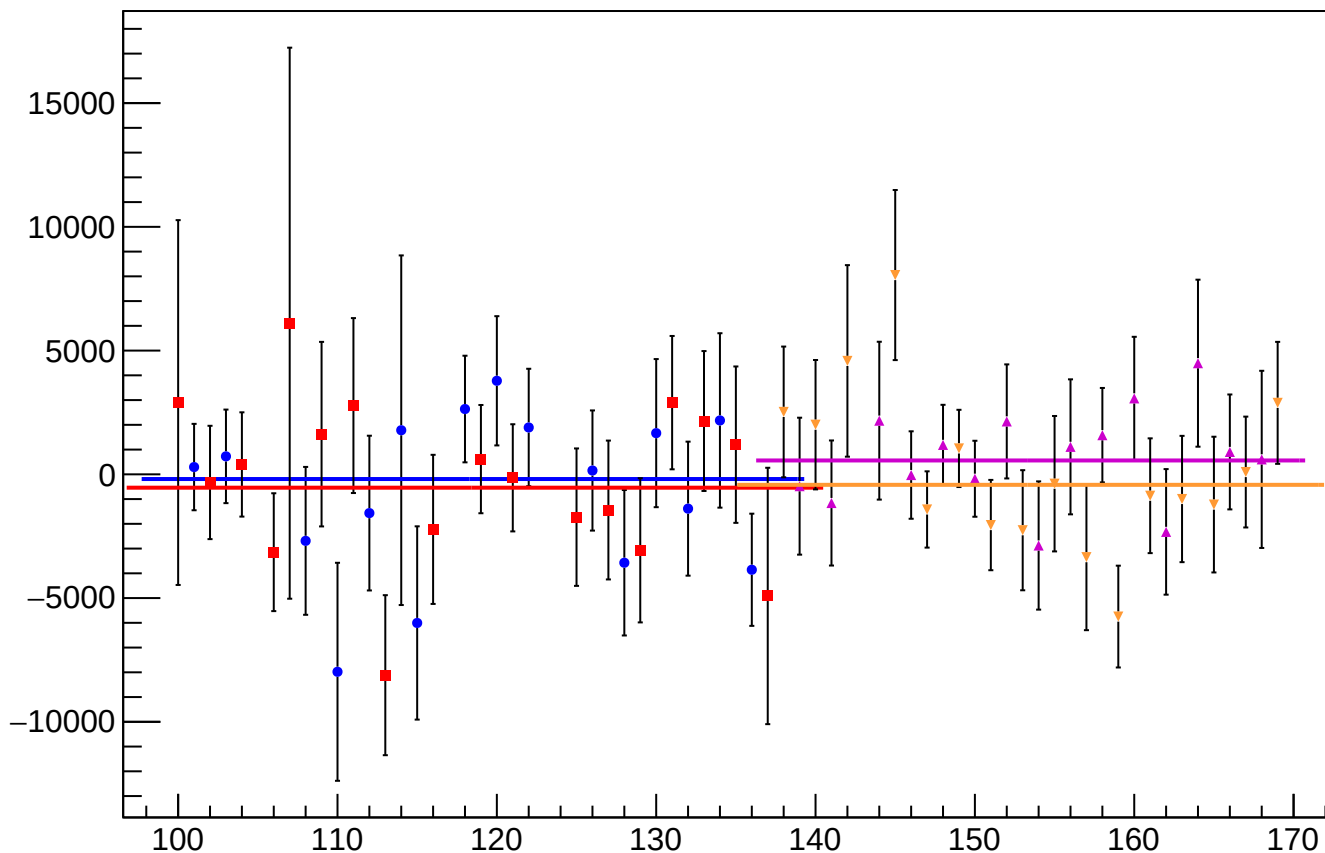
Right: 2322.028+/-0.437 χ^2/NDF : 664314.8/33

In: 2231.439+/-0.358 χ^2/NDF : 540474.9/30

Out: 2235.260+/-0.356 χ^2/NDF : 187961.7/33

All: 2233.365+/-0.252 χ^2/NDF : 728493.9/64

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -189.762 $\pm$ 658.205 χ^2 /NDF: 16.4/15

Left Out: -424.420 $\pm$ 571.242 χ^2 /NDF:22.2/15

Right Out: -539.517 $\pm$ 678.214 χ^2 /NDF: 13.9/17

Left In: 560.410 $\pm$ 584.584 χ^2 /NDF:7.6/14

Left: 56.628 $\pm$ 408.564 χ^2 /NDF: 31.3/30

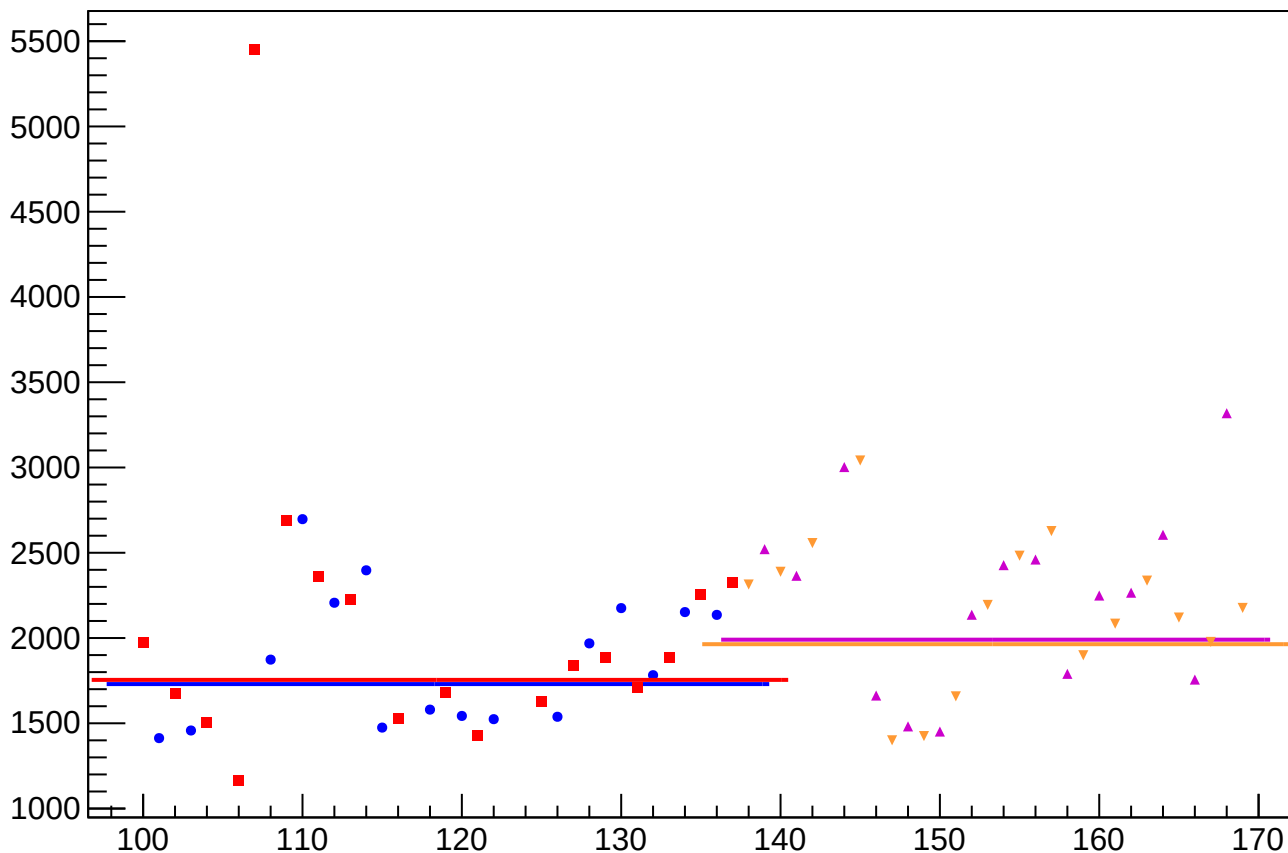
Right: -359.404 $\pm$ 472.337 χ^2 /NDF: 30.5/33

In: 229.608 $\pm$ 437.084 χ^2 /NDF:24.7/30

Out: -472.186 $\pm$ 436.913 χ^2 /NDF:36.2/33

All: -121.426 $\pm$ 309.005 χ^2 /NDF: 62.2/64

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1729.898 $\pm$ 0.465 χ^2 /NDF: 479898.2/15

Left Out: 1963.824 $\pm$ 0.404 χ^2 /NDF: 1156403.4/15

Right Out: 1754.526 $\pm$ 0.480 χ^2 /NDF: 751010.0/17

Left In: 1990.339 $\pm$ 0.413 χ^2 /NDF: 1385136.9/14

Left: 1976.775 $\pm$ 0.289 χ^2 /NDF: 2543645.0/30

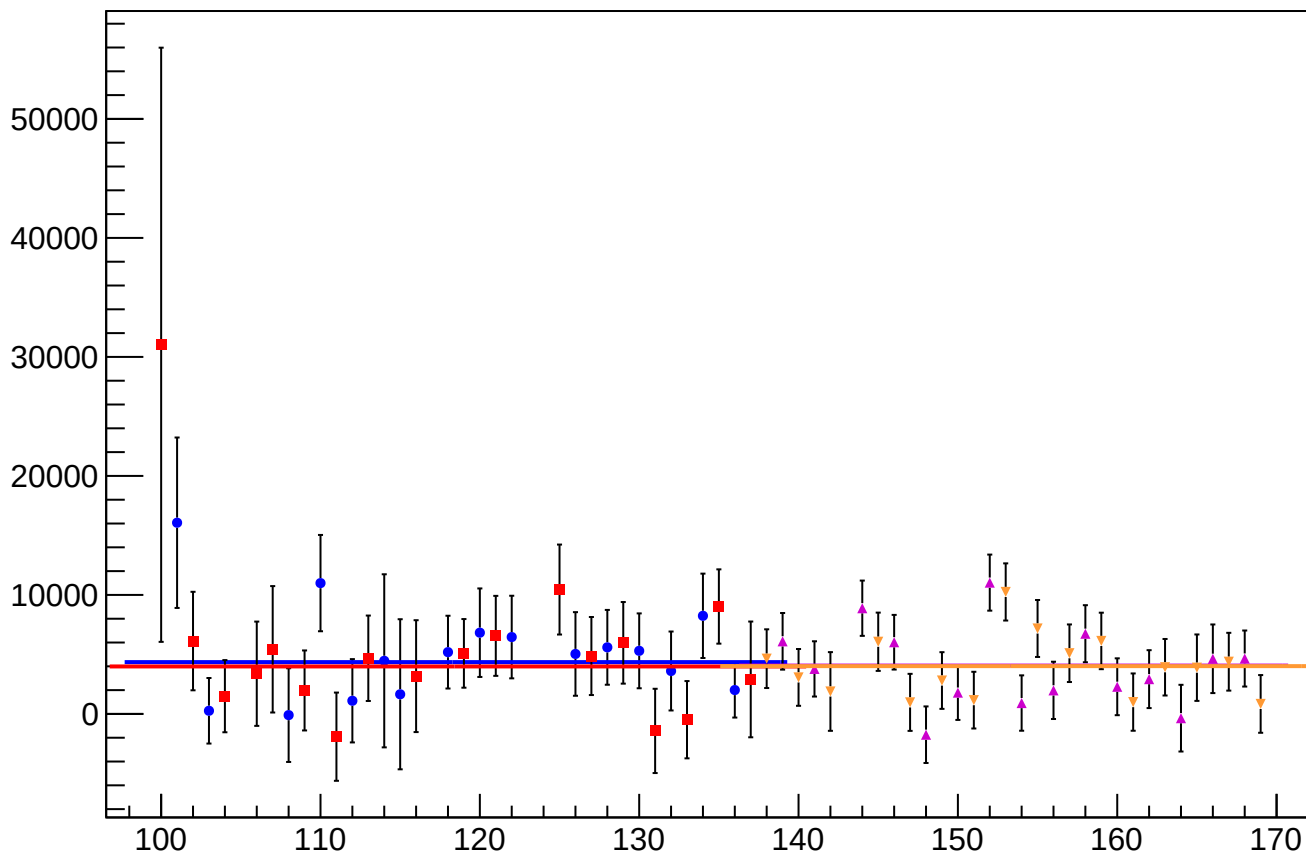
Right: 1741.844 $\pm$ 0.334 χ^2 /NDF: 1232266.3/33

In: 1875.493 $\pm$ 0.309 χ^2 /NDF: 2040084.6/30

Out: 1876.964 $\pm$ 0.309 χ^2 /NDF: 2018836.6/33

All: 1876.229 $\pm$ 0.218 χ^2 /NDF: 4058932.5/64

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4353.670 $\pm$ 875.155 χ^2 /NDF: 13.4/15

Left Out: 4015.824 $\pm$ 615.574 χ^2 /NDF:17.4/15

Right Out: 3989.884 $\pm$ 871.455 χ^2 /NDF: 16.1/17

Left In: 4064.093 $\pm$ 621.644 χ^2 /NDF:28.7/14

Left: 4039.721 $\pm$ 437.407 χ^2 /NDF: 46.1/30

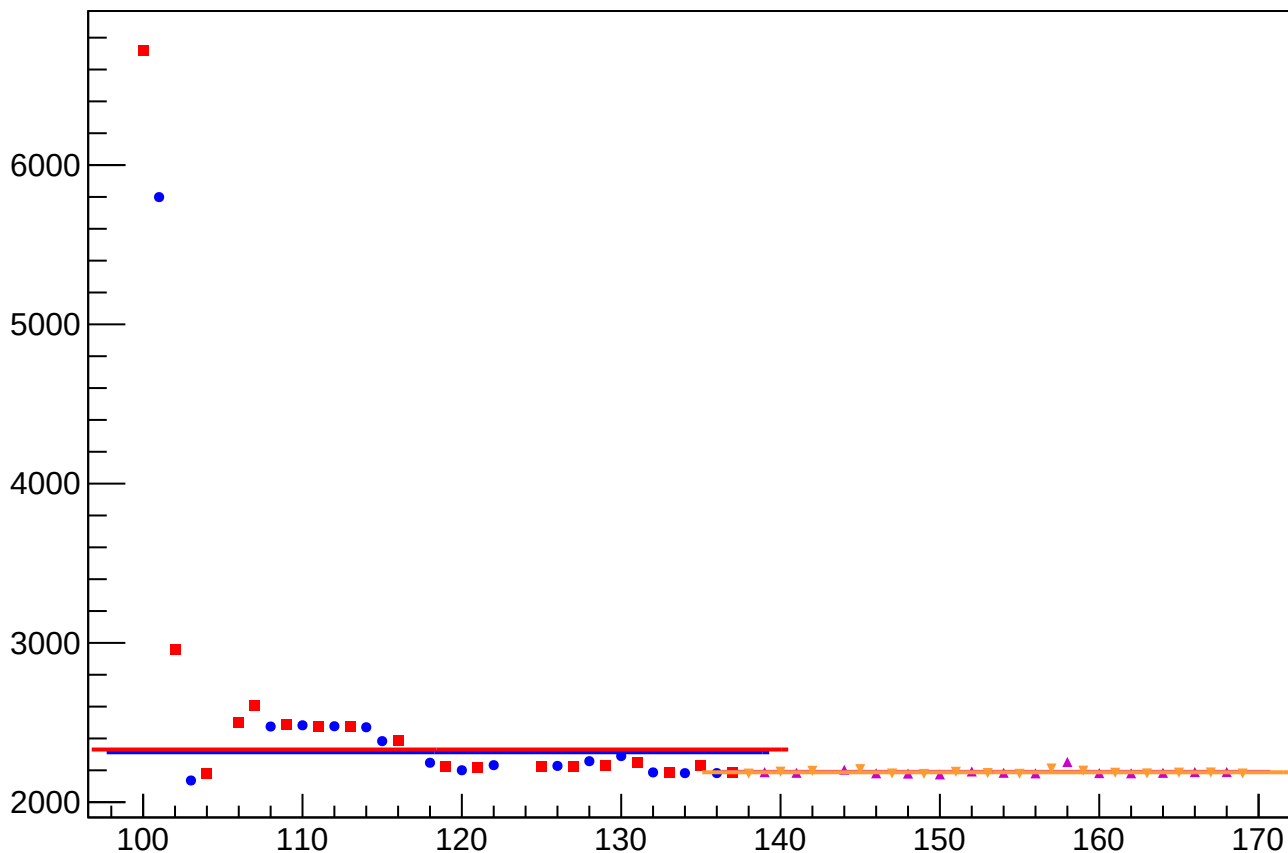
Right: 4171.006 $\pm$ 617.516 χ^2 /NDF: 29.6/33

In: 4161.204 $\pm$ 506.800 χ^2 /NDF:42.1/30

Out: 4007.189 $\pm$ 502.788 χ^2 /NDF:33.6/33

All: 4083.584 $\pm$ 356.935 χ^2 /NDF: 75.7/64

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2313.413 $\pm$ 0.619 χ^2 /NDF: 512372.3/15

Left Out: 2187.704 $\pm$ 0.435 χ^2 /NDF:545.3/15

Right Out: 2330.570 $\pm$ 0.616 χ^2 /NDF: 151556.6/17

Left In: 2190.079 $\pm$ 0.440 χ^2 /NDF:1701.7/14

Left: 2188.880 $\pm$ 0.309 χ^2 /NDF: 2261.7/30

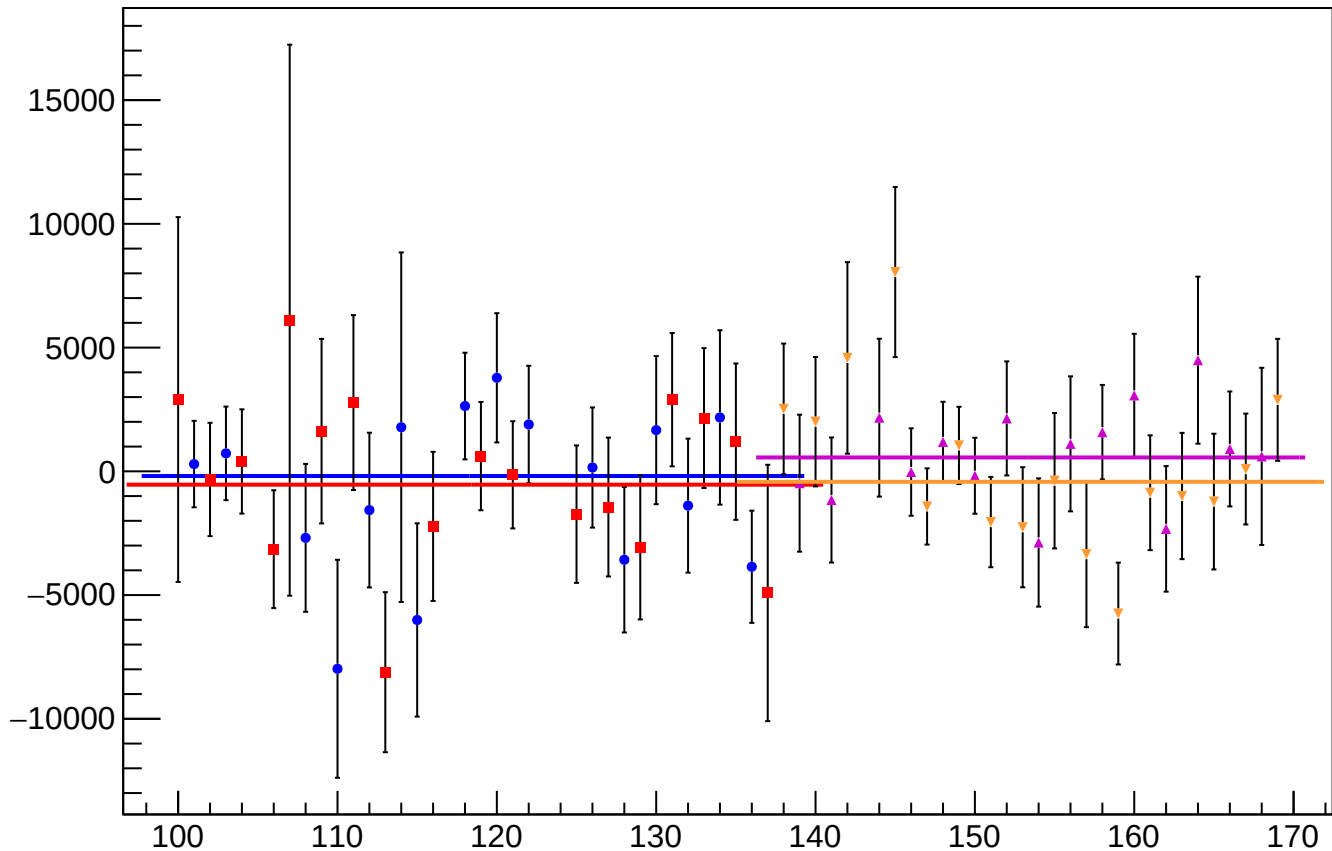
Right: 2322.028 $\pm$ 0.437 χ^2 /NDF: 664314.8/33

In: 2231.439 $\pm$ 0.358 χ^2 /NDF:540474.9/30

Out: 2235.260 $\pm$ 0.356 χ^2 /NDF:187961.7/33

All: 2233.365 $\pm$ 0.252 χ^2 /NDF: 728493.9/64

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -189.762 $\pm$ 658.205 χ^2 /NDF: 16.4/15

Left Out: -424.420 $\pm$ 571.242 χ^2 /NDF:22.2/15

Right Out: -539.517 $\pm$ 678.214 χ^2 /NDF: 13.9/17

Left In: 560.410 $\pm$ 584.584 χ^2 /NDF:7.6/14

Left: 56.628 $\pm$ 408.564 χ^2 /NDF: 31.3/30

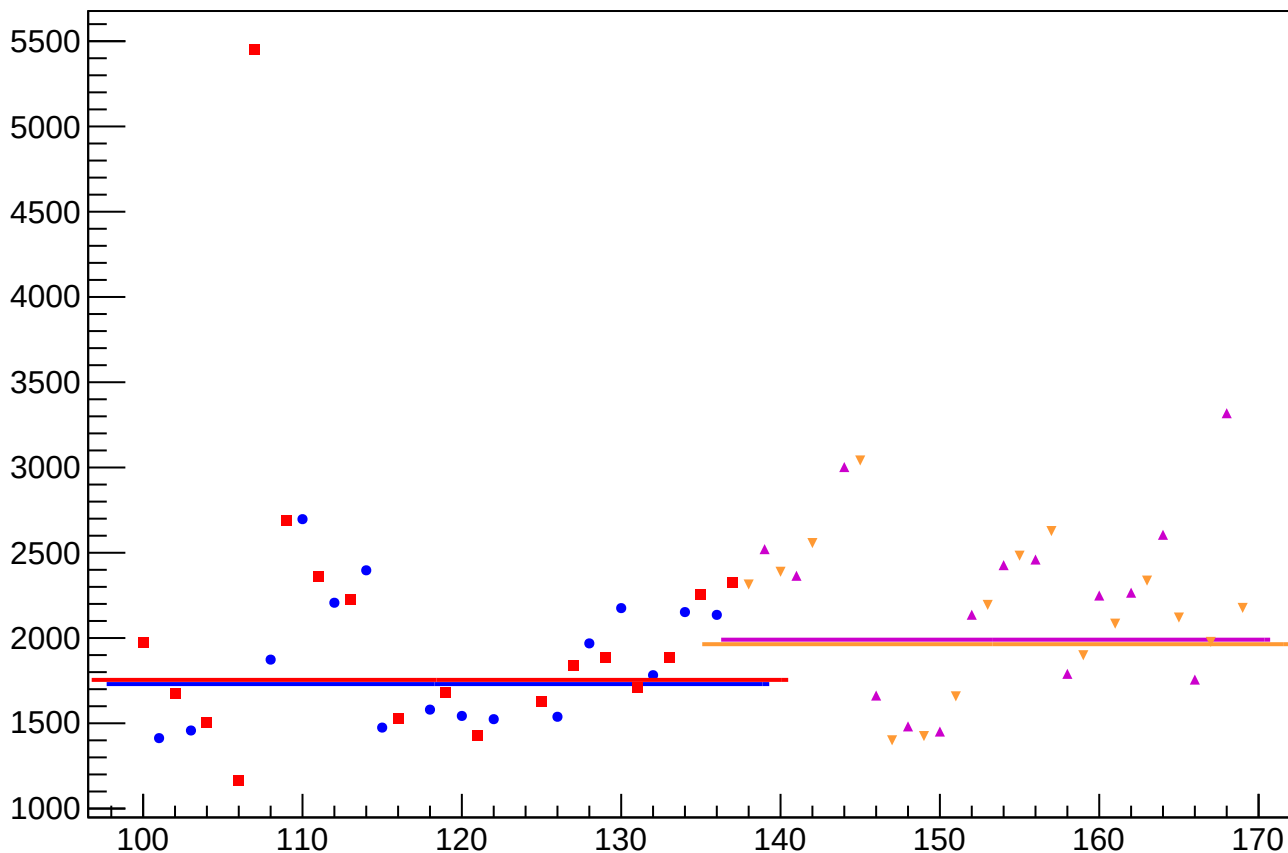
Right: -359.404 $\pm$ 472.337 χ^2 /NDF: 30.5/33

In: 229.608 $\pm$ 437.084 χ^2 /NDF:24.7/30

Out: -472.186 $\pm$ 436.913 χ^2 /NDF:36.2/33

All: -121.426 $\pm$ 309.005 χ^2 /NDF: 62.2/64

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1729.898+/-0.465 χ^2/NDF : 479898.2/15

Left Out: 1963.824+/-0.404 χ^2/NDF : 1156403.4/15

Right Out: 1754.526+/-0.480 χ^2/NDF : 751010.0/17

Left In: 1990.339+/-0.413 χ^2/NDF : 1385136.9/14

Left: 1976.775+/-0.289 χ^2/NDF : 2543645.0/30

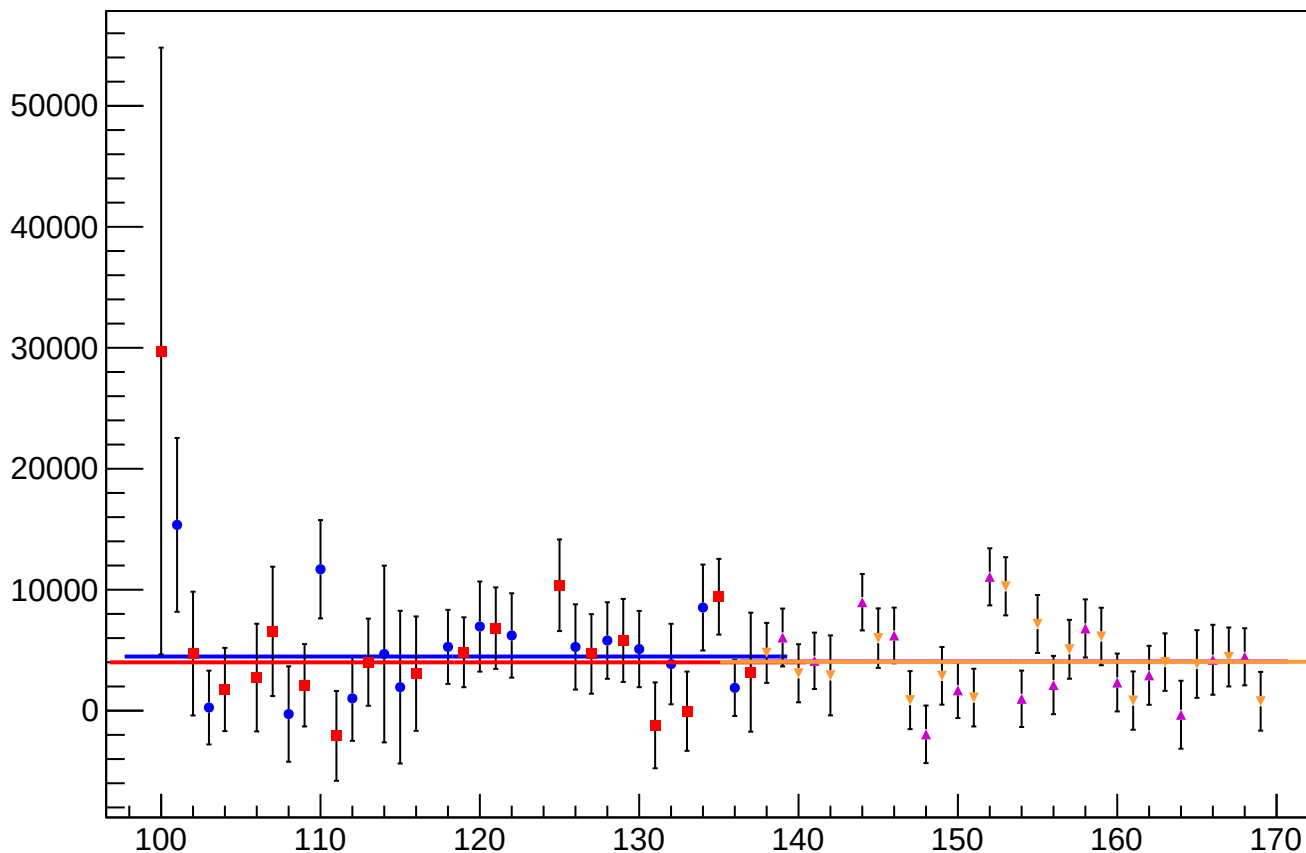
Right: 1741.844+/-0.334 χ^2/NDF : 1232266.3/33

In: 1875.493+/-0.309 χ^2/NDF : 2040084.6/30

Out: 1876.964+/-0.309 χ^2/NDF : 2018836.6/33

All: 1876.229+/-0.218 χ^2/NDF : 4058932.5/64

dit_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4476.431 $\pm$ 886.087 χ^2 /NDF: 13.5/15

Left Out: 4042.459 $\pm$ 617.090 χ^2 /NDF:17.5/15

Right Out: 3995.807 $\pm$ 890.441 χ^2 /NDF: 15.5/17

Left In: 4070.990 $\pm$ 623.133 χ^2 /NDF:29.2/14

Left: 4056.585 $\pm$ 438.469 χ^2 /NDF: 46.7/30

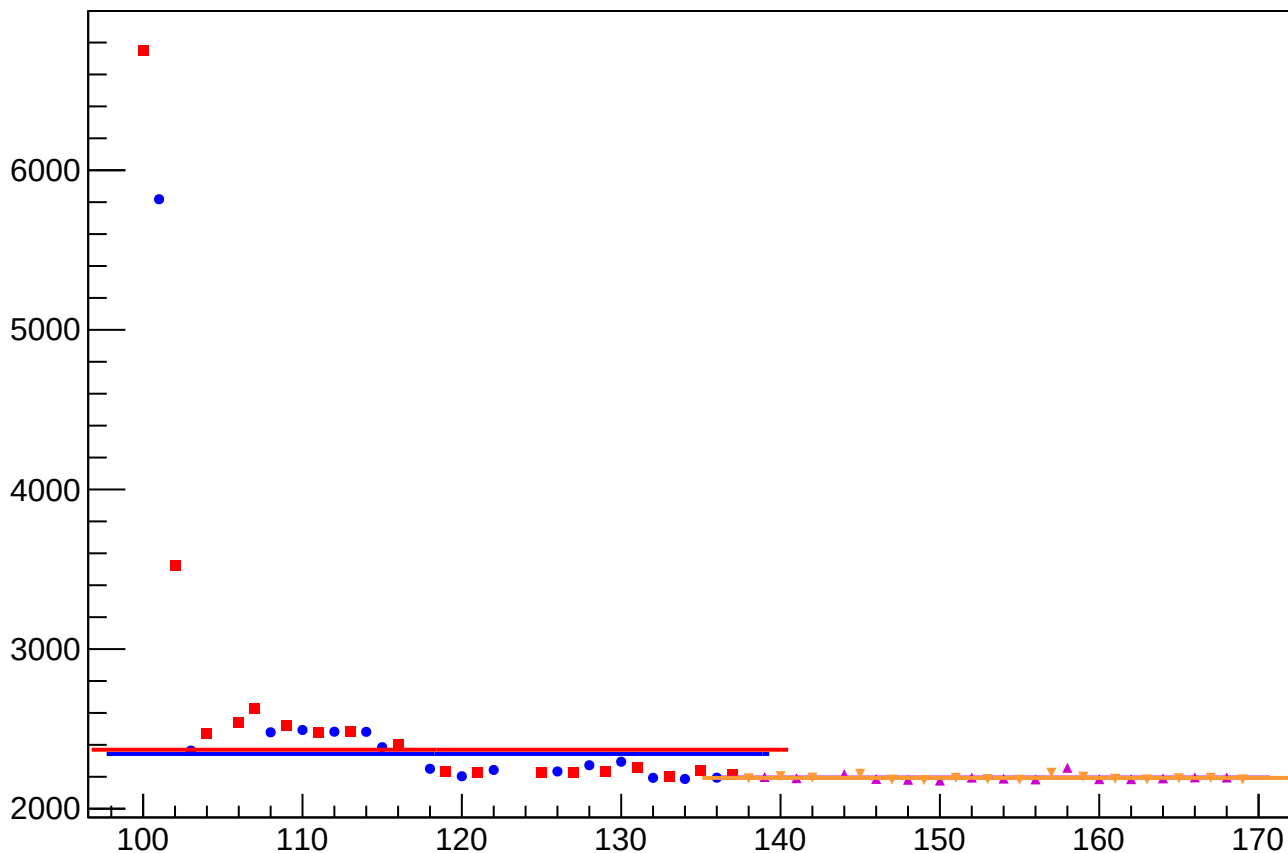
Right: 4237.297 $\pm$ 628.092 χ^2 /NDF: 29.2/33

In: 4205.151 $\pm$ 509.713 χ^2 /NDF:42.9/30

Out: 4027.322 $\pm$ 507.198 χ^2 /NDF:33.0/33

All: 4115.797 $\pm$ 359.529 χ^2 /NDF: 75.9/64

dit_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2342.914+/-0.627 χ^2/NDF : 502866.3/15

Left Out: 2192.986+/-0.436 χ^2/NDF : 872.3/15

Right Out: 2369.572+/-0.630 χ^2/NDF : 210147.5/17

Left In: 2195.260+/-0.441 χ^2/NDF : 1840.1/14

Left: 2194.112+/-0.310 χ^2/NDF : 2725.8/30

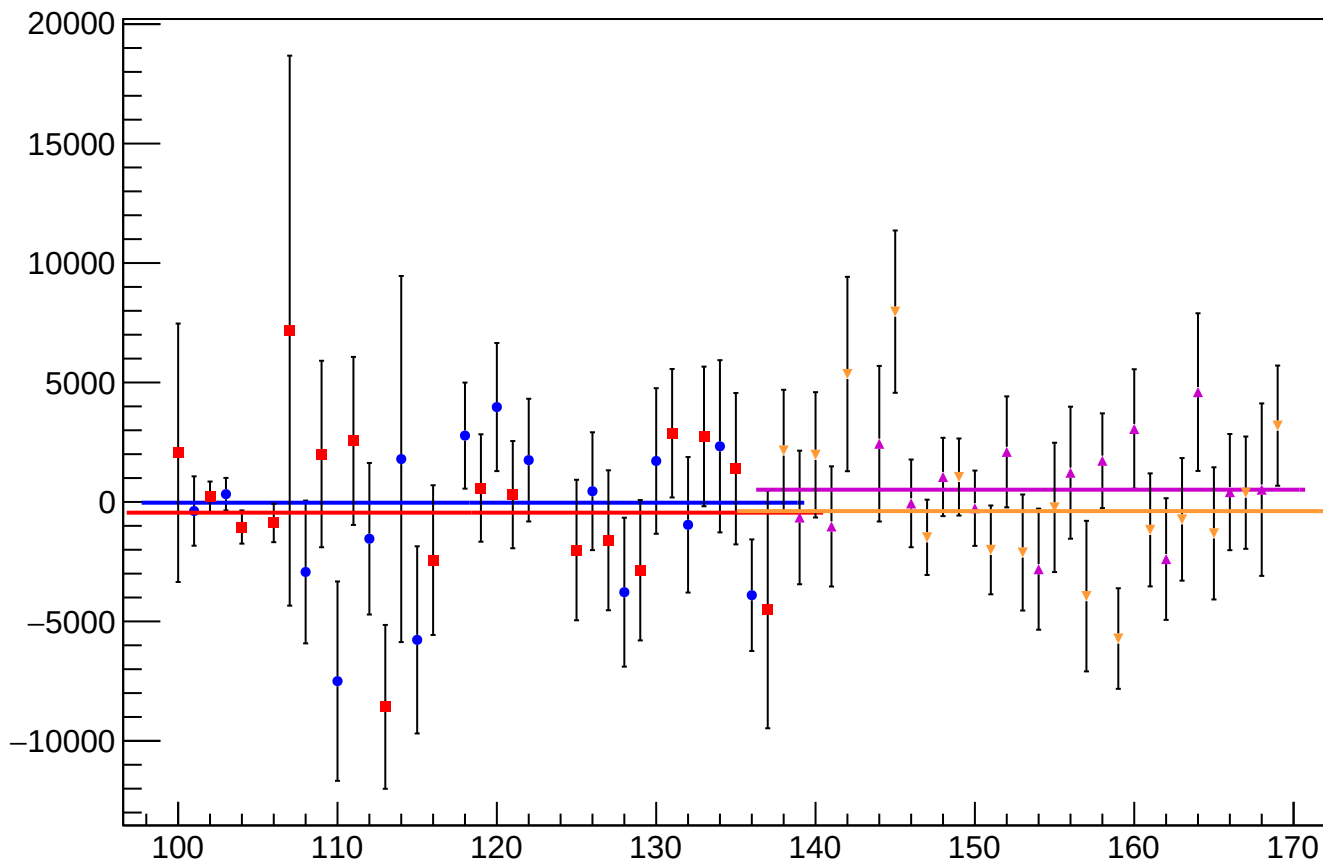
Right: 2356.178+/-0.444 χ^2/NDF : 713914.5/33

In: 2244.119+/-0.360 χ^2/NDF : 541864.7/30

Out: 2250.279+/-0.359 χ^2/NDF : 264156.4/33

All: 2247.215+/-0.254 χ^2/NDF : 806167.8/64

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -31.393 ± 485.329 $\chi^2/\text{NDF}: 16.3/15$

Left Out: -383.944 ± 581.582 $\chi^2/\text{NDF}: 22.4/15$

Right Out: -448.261 ± 362.570 $\chi^2/\text{NDF}: 15.1/17$

Left In: 512.975 ± 594.359 $\chi^2/\text{NDF}: 7.8/14$

Left: 54.772 ± 415.684 $\chi^2/\text{NDF}: 31.4/30$

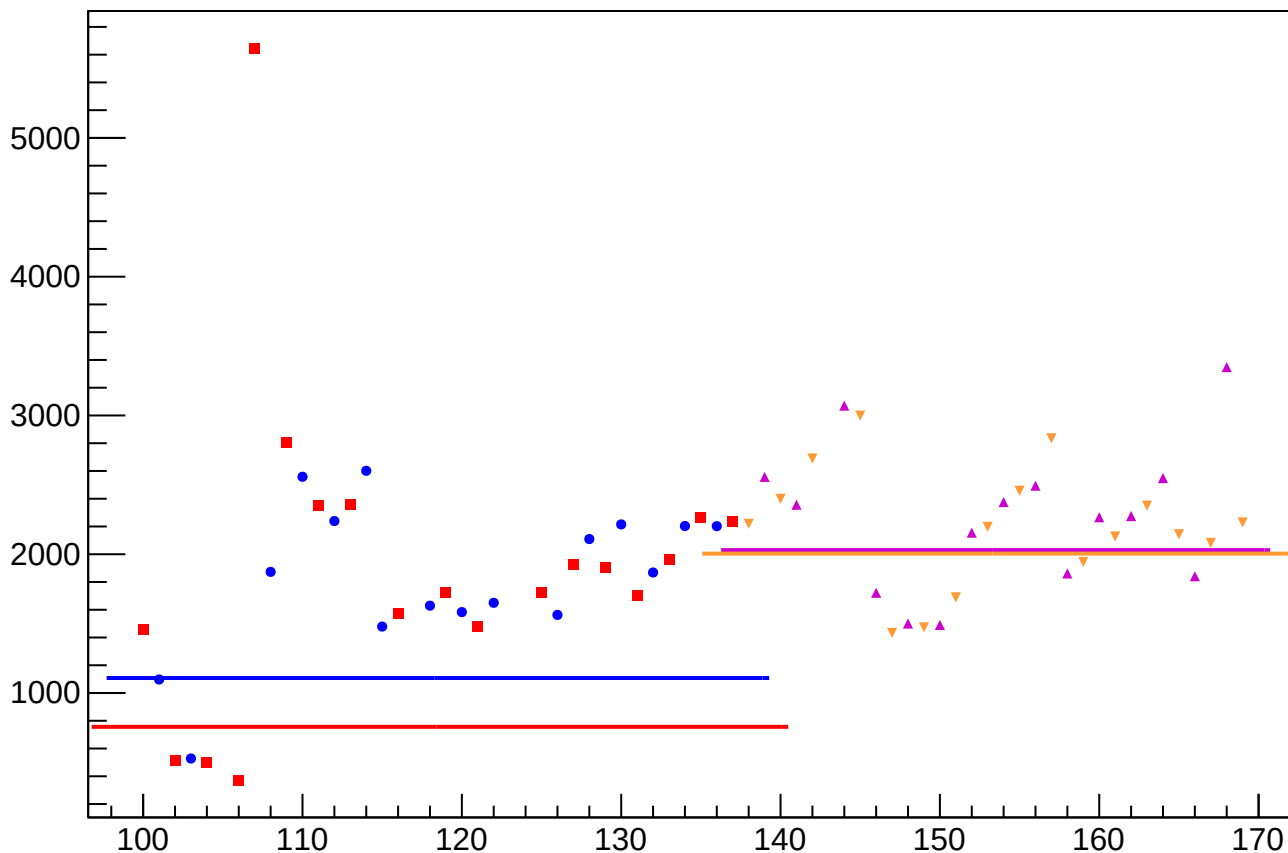
Right: -298.942 ± 290.465 $\chi^2/\text{NDF}: 31.9/33$

In: 186.374 ± 375.923 $\chi^2/\text{NDF}: 24.7/30$

Out: -430.260 ± 307.677 $\chi^2/\text{NDF}: 37.5/33$

All: -182.896 ± 238.097 $\chi^2/\text{NDF}: 63.8/64$

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1108.139 $\pm$ 0.343 χ^2 /NDF: 3746477.0/15

Left Out: 2004.388 $\pm$ 0.411 χ^2 /NDF: 1099583.8/15

Right Out: 756.419 $\pm$ 0.256 χ^2 /NDF: 5603215.5/17

Left In: 2029.814 $\pm$ 0.420 χ^2 /NDF: 1287389.1/14

Left: 2016.825 $\pm$ 0.294 χ^2 /NDF: 2388842.6/30

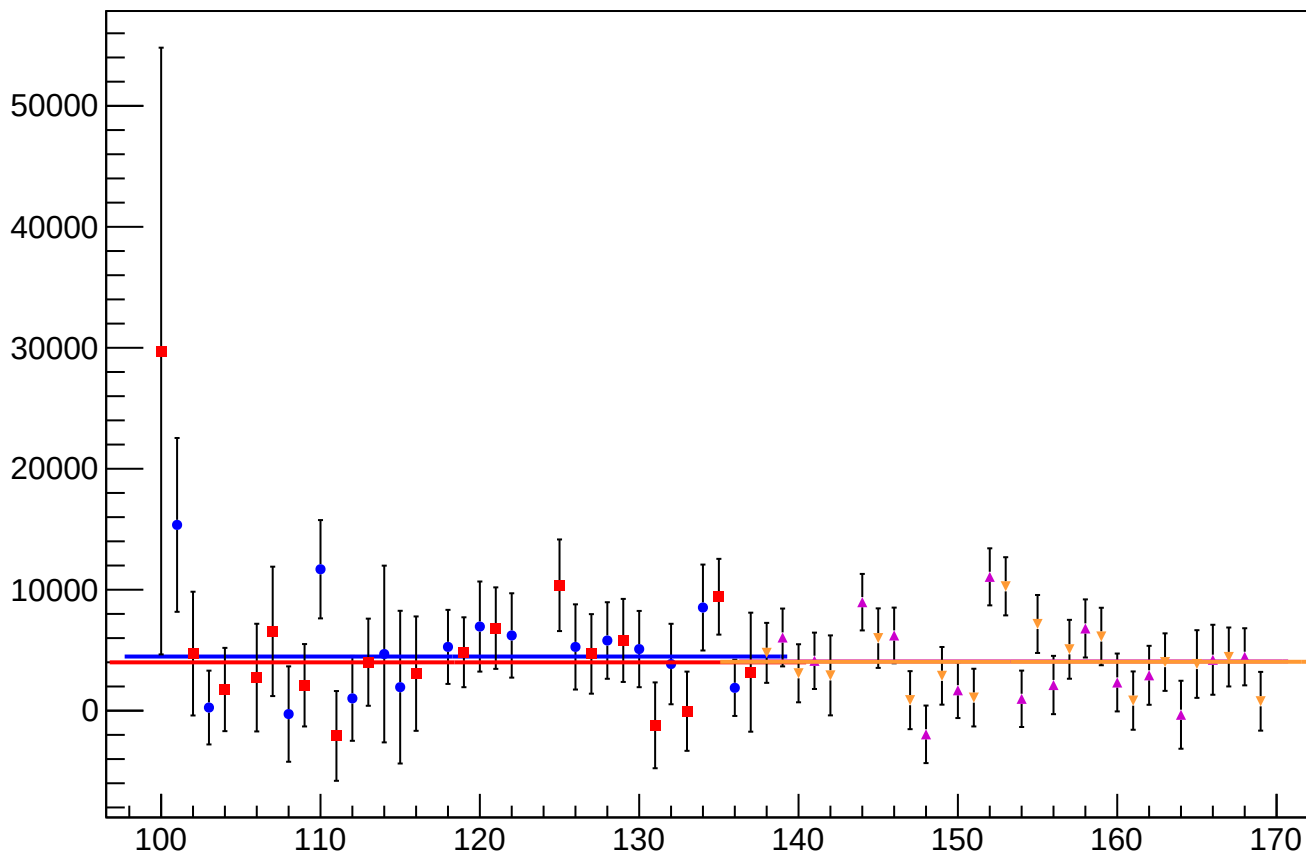
Right: 882.403 $\pm$ 0.205 χ^2 /NDF: 10023844.2/33

In: 1476.843 $\pm$ 0.266 χ^2 /NDF: 7919312.3/30

Out: 1105.698 $\pm$ 0.218 χ^2 /NDF: 13334451.3/33

All: 1254.583 $\pm$ 0.168 χ^2 /NDF: 22421208.4/66

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4476.427+/-886.086 χ^2/NDF : 13.5/15

Left Out: 4042.456+/-617.090 χ^2/NDF : 17.5/15

Right Out: 3995.803+/-890.441 χ^2/NDF : 15.5/17

Left In: 4070.991+/-623.133 χ^2/NDF : 29.2/14

Left: 4056.585+/-438.469 χ^2/NDF : 46.7/30

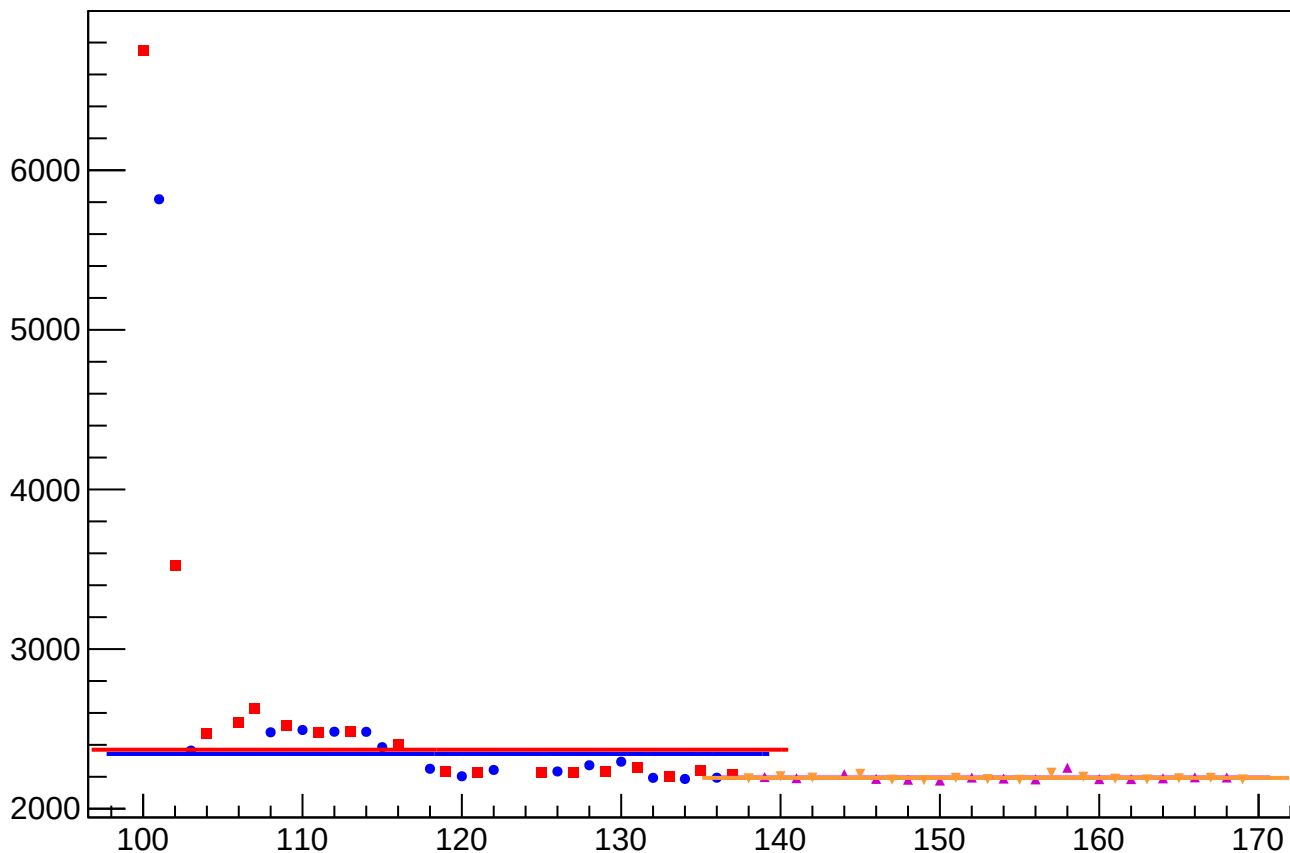
Right: 4237.293+/-628.092 χ^2/NDF : 29.2/33

In: 4205.151+/-509.713 χ^2/NDF : 42.9/30

Out: 4027.320+/-507.198 χ^2/NDF : 33.0/33

All: 4115.795+/-359.529 χ^2/NDF : 75.9/64

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2342.913+/-0.627 χ^2/NDF : 502866.3/15

Left Out: 2192.986+/-0.436 χ^2/NDF : 872.3/15

Right Out: 2369.572+/-0.630 χ^2/NDF : 210146.5/17

Left In: 2195.260+/-0.441 χ^2/NDF : 1840.1/14

Left: 2194.112+/-0.310 χ^2/NDF : 2725.9/30

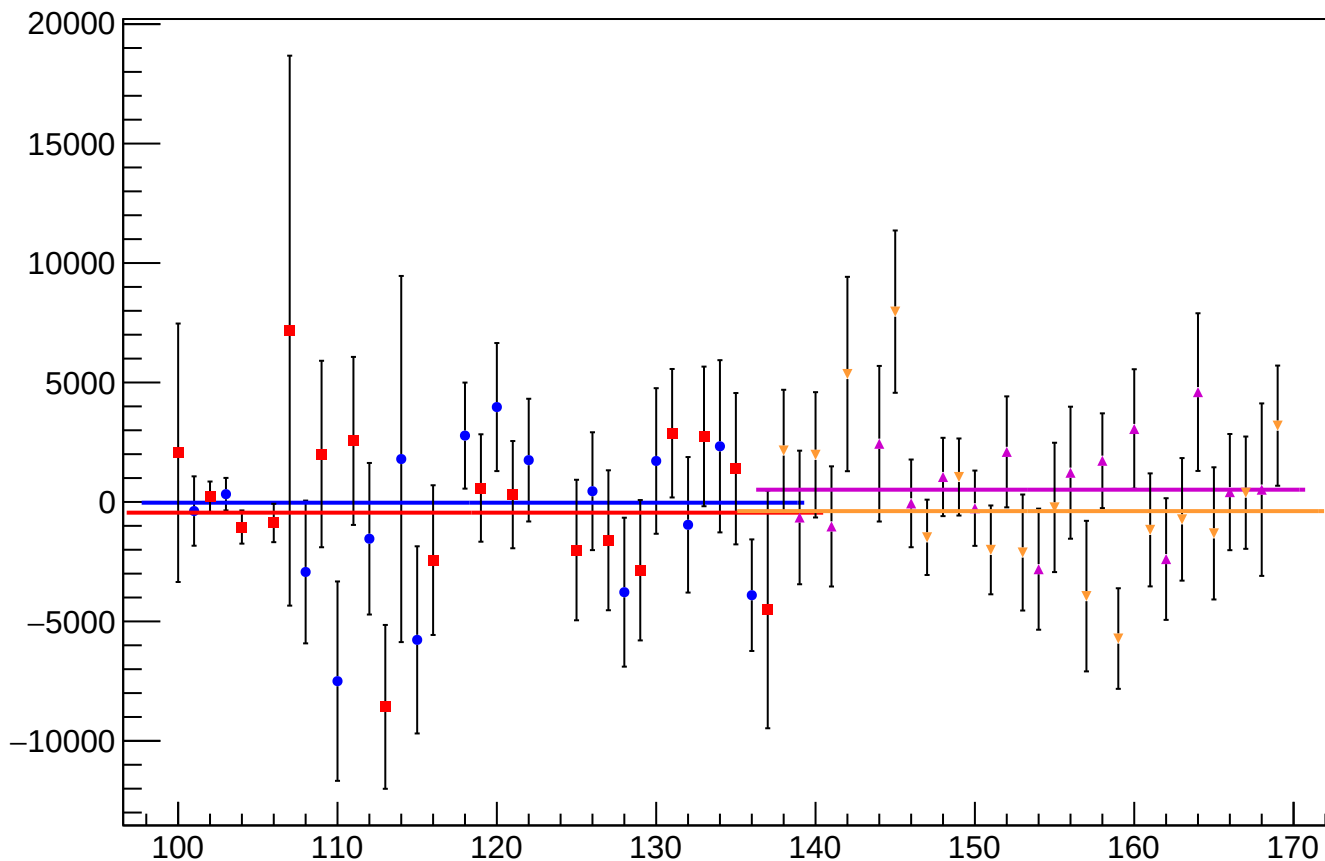
Right: 2356.177+/-0.444 χ^2/NDF : 713913.5/33

In: 2244.119+/-0.360 χ^2/NDF : 541864.4/30

Out: 2250.279+/-0.359 χ^2/NDF : 264155.0/33

All: 2247.214+/-0.254 χ^2/NDF : 806166.2/64

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -31.400 ± 485.331 $\chi^2/\text{NDF}: 16.3/15$

Left Out: -383.948 ± 581.583 $\chi^2/\text{NDF}: 22.4/15$

Right Out: -448.265 ± 362.575 $\chi^2/\text{NDF}: 15.1/17$

Left In: 512.976 ± 594.360 $\chi^2/\text{NDF}: 7.8/14$

Left: 54.770 ± 415.685 $\chi^2/\text{NDF}: 31.4/30$

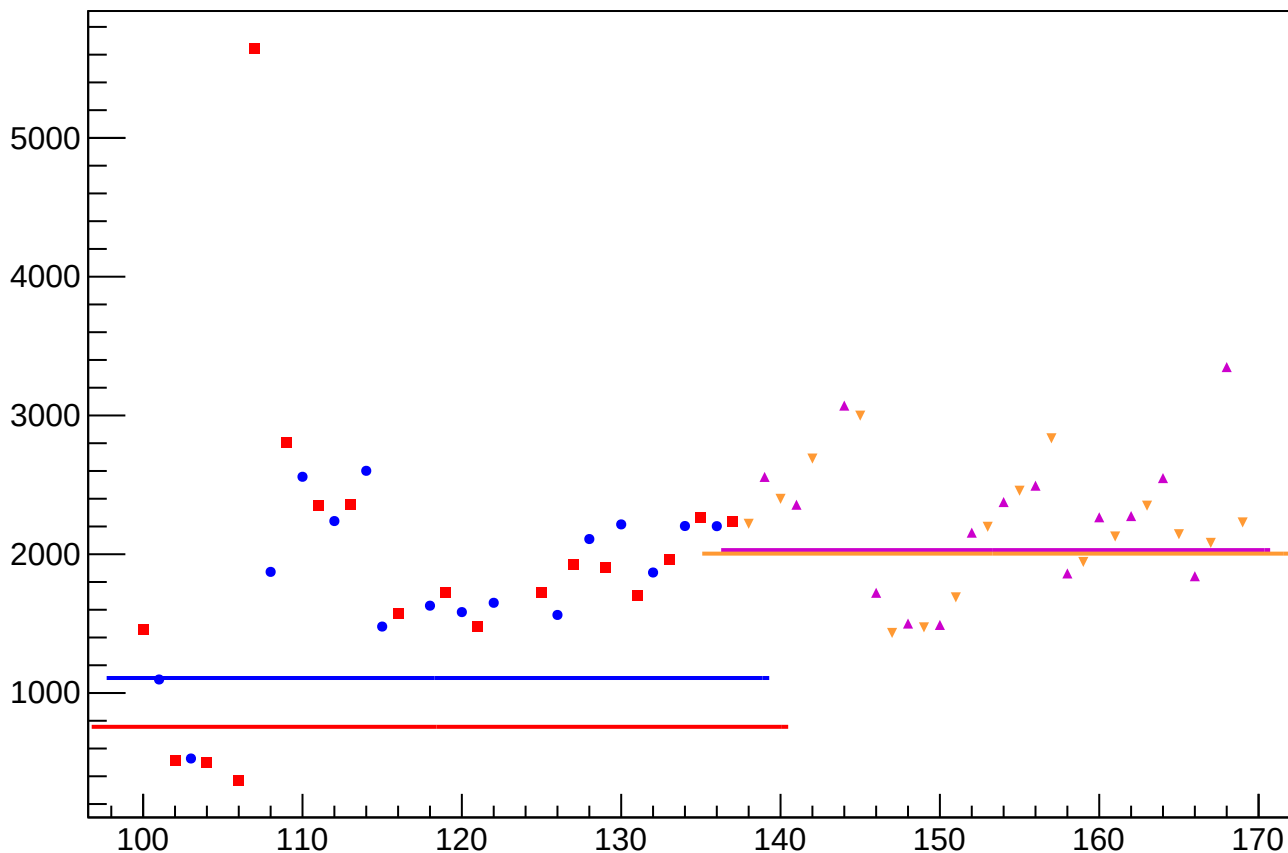
Right: -298.945 ± 290.468 $\chi^2/\text{NDF}: 31.9/33$

In: 186.371 ± 375.924 $\chi^2/\text{NDF}: 24.7/30$

Out: -430.264 ± 307.680 $\chi^2/\text{NDF}: 37.5/33$

All: -182.897 ± 238.098 $\chi^2/\text{NDF}: 63.8/64$

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1108.149+/-0.343 χ^2/NDF : 3746402.0/15

Left Out: 2004.392+/-0.411 χ^2/NDF : 1099583.7/15

Right Out: 756.434+/-0.256 χ^2/NDF : 5603097.5/17

Left In: 2029.818+/-0.420 χ^2/NDF : 1287388.1/14

Left: 2016.829+/-0.294 χ^2/NDF : 2388841.7/30

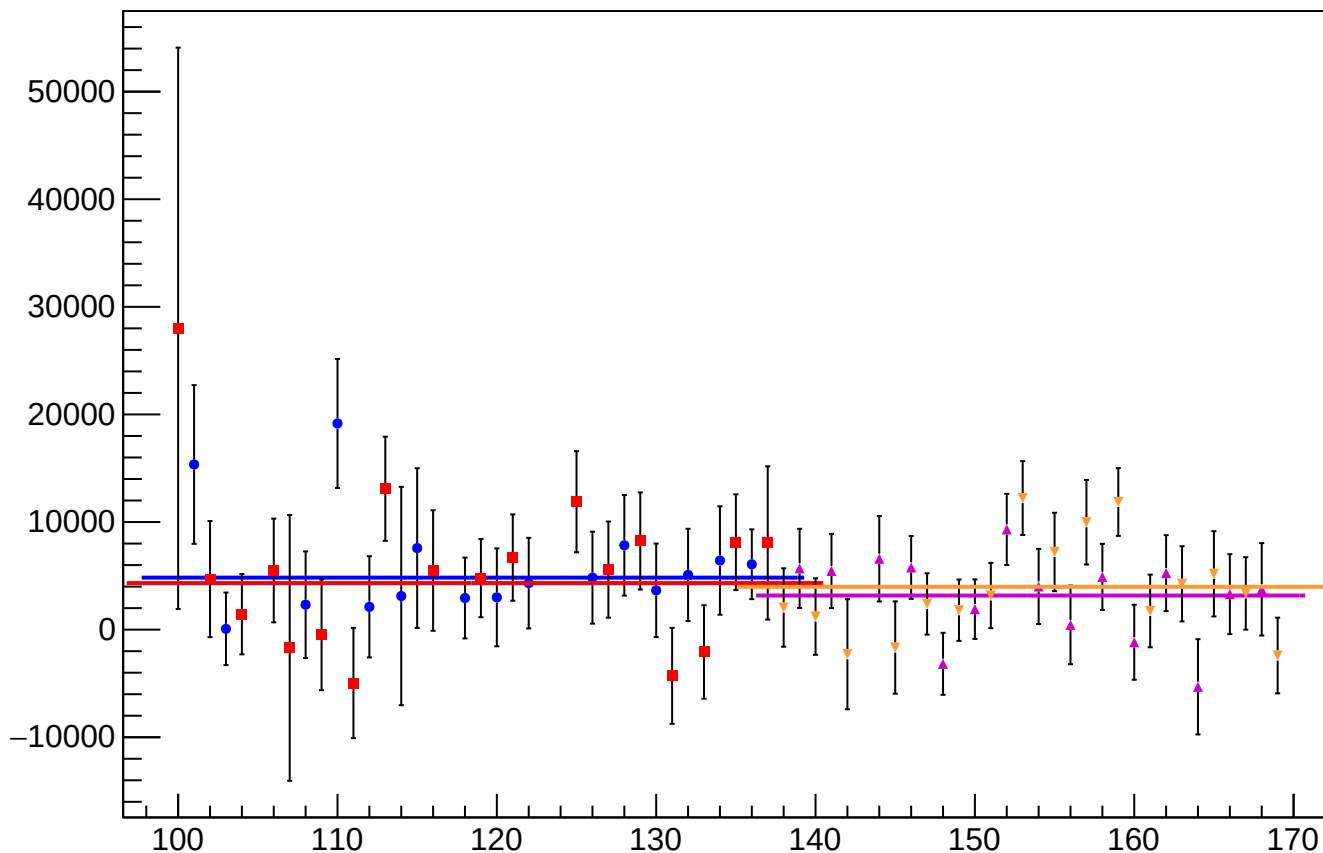
Right: 882.417+/-0.205 χ^2/NDF : 10023620.2/33

In: 1476.851+/-0.266 χ^2/NDF : 7919179.7/30

Out: 1105.715+/-0.218 χ^2/NDF : 13334145.2/33

All: 1254.599+/-0.168 χ^2/NDF : 22420700.8/66

asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4833.806+/-1142.535 χ^2/NDF : 11.7/15

Left Out: 3979.653+/-867.125 χ^2/NDF : 24.1/15

Right Out: 4328.601+/-1144.541 χ^2/NDF : 19.9/17

Left In: 3169.792+/-882.312 χ^2/NDF : 17.5/14

Left: 3581.753+/-618.450 χ^2/NDF : 42.0/30

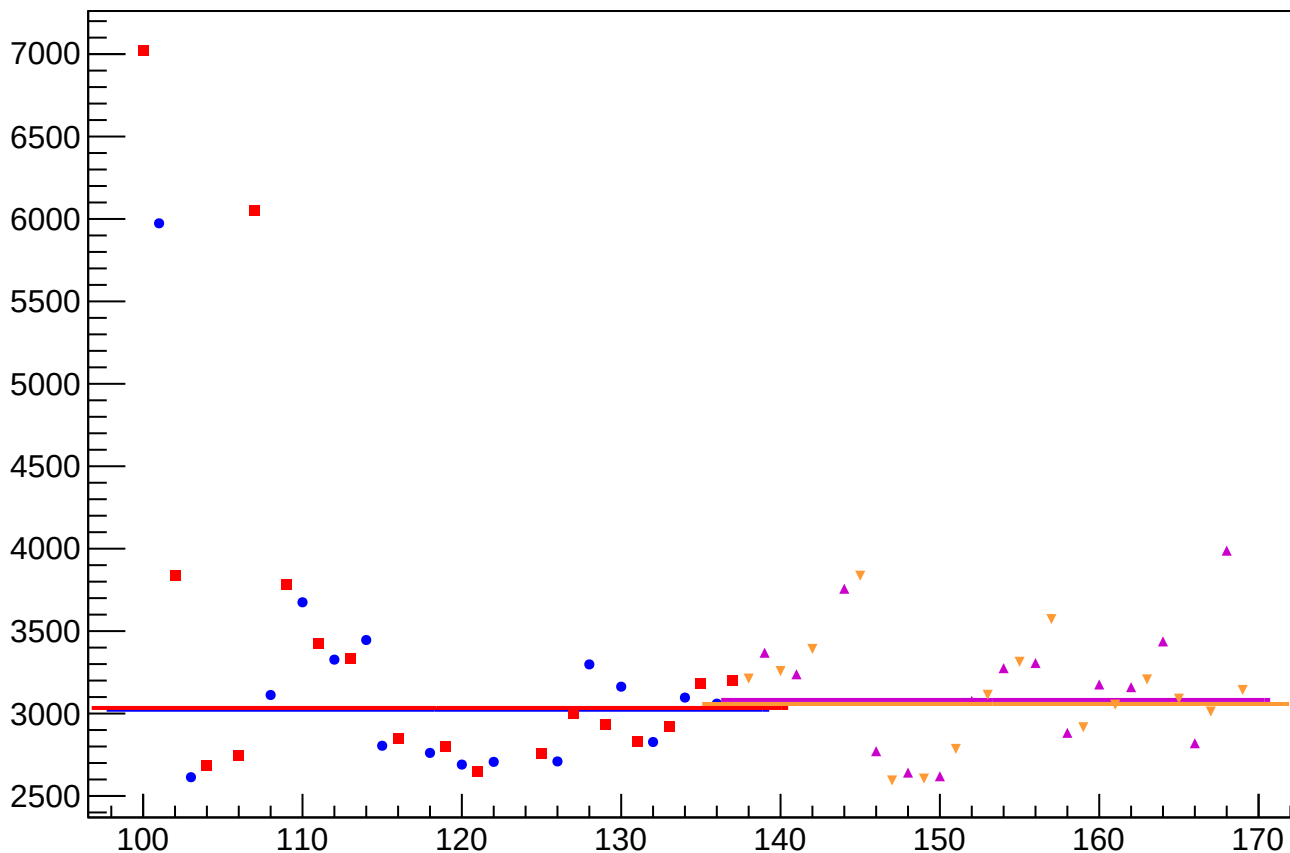
Right: 4581.647+/-808.603 χ^2/NDF : 31.7/33

In: 3791.424+/-698.325 χ^2/NDF : 30.5/30

Out: 4106.904+/-691.165 χ^2/NDF : 44.1/33

All: 3950.790+/-491.239 χ^2/NDF : 74.7/64

asym_us_avg_at1lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 3023.068+/-0.808 χ^2/NDF : 443705.8/15

Left Out: 3057.858+/-0.613 χ^2/NDF : 257771.2/15

Right Out: 3033.869+/-0.809 χ^2/NDF : 342674.7/17

Left In: 3082.600+/-0.624 χ^2/NDF : 335573.7/14

Left: 3070.014+/-0.437 χ^2/NDF : 594145.0/30

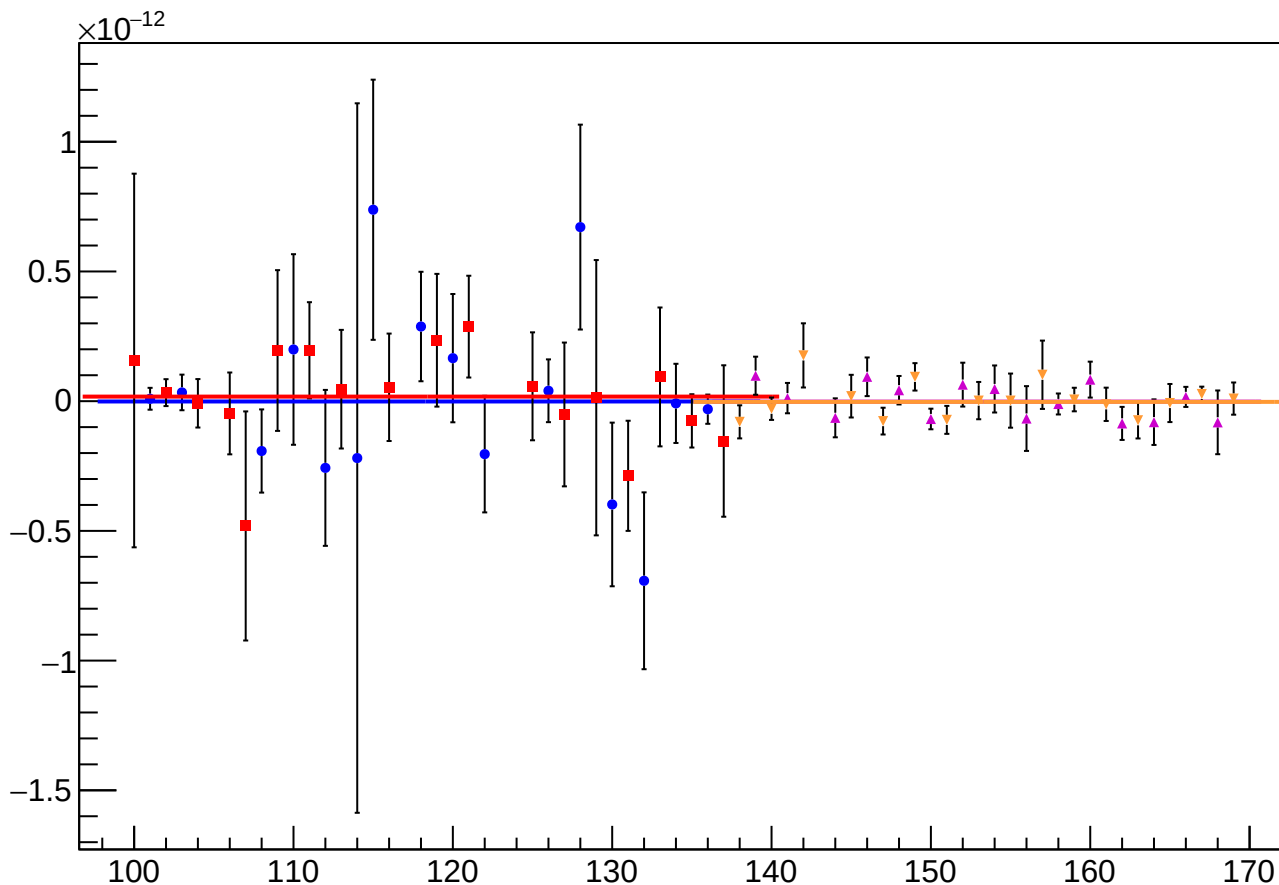
Right: 3028.459+/-0.572 χ^2/NDF : 786469.7/33

In: 3060.361+/-0.494 χ^2/NDF : 782680.9/30

Out: 3049.110+/-0.489 χ^2/NDF : 601004.1/33

All: 3054.677+/-0.347 χ^2/NDF : 1383947.2/64

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 17.1/15

Left Out: -0.000+/-0.000 χ^2 /NDF:14.0/15

Right Out: 0.000+/-0.000 χ^2 /NDF: 9.0/17

Left In: -0.000+/-0.000 χ^2 /NDF:13.6/14

Left: -0.000+/-0.000 χ^2 /NDF: 27.6/30

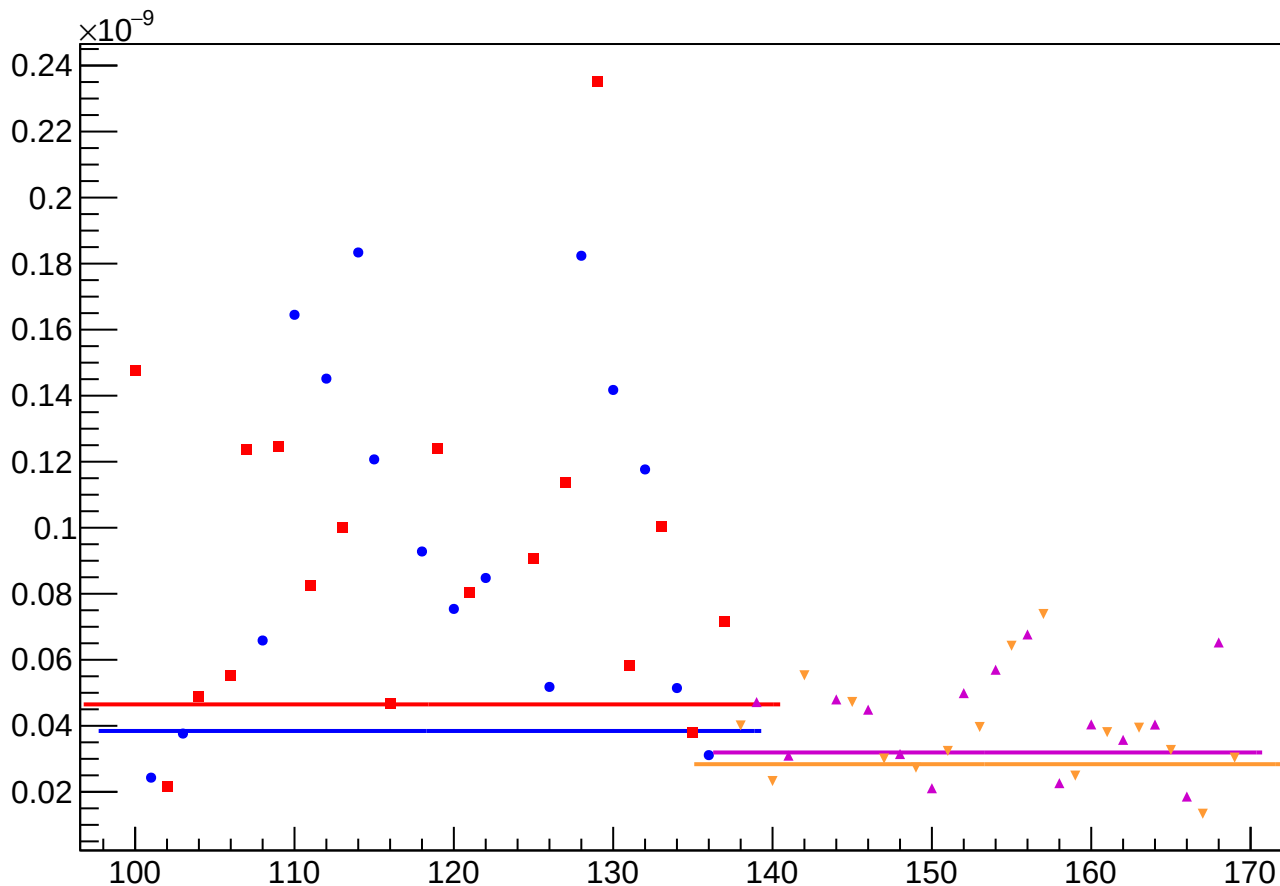
Right: 0.000+/-0.000 χ^2 /NDF: 26.3/33

In: -0.000+/-0.000 χ^2 /NDF:30.7/30

Out: 0.000+/-0.000 χ^2 /NDF:23.3/33

All: -0.000+/-0.000 χ^2 /NDF: 54.0/64

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1771405.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1510213.6/15

Right Out: 0.000+/-0.000 χ^2/NDF : 1697135.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 1342364.7/14

Left: 0.000+/-0.000 χ^2/NDF : 2909193.7/30

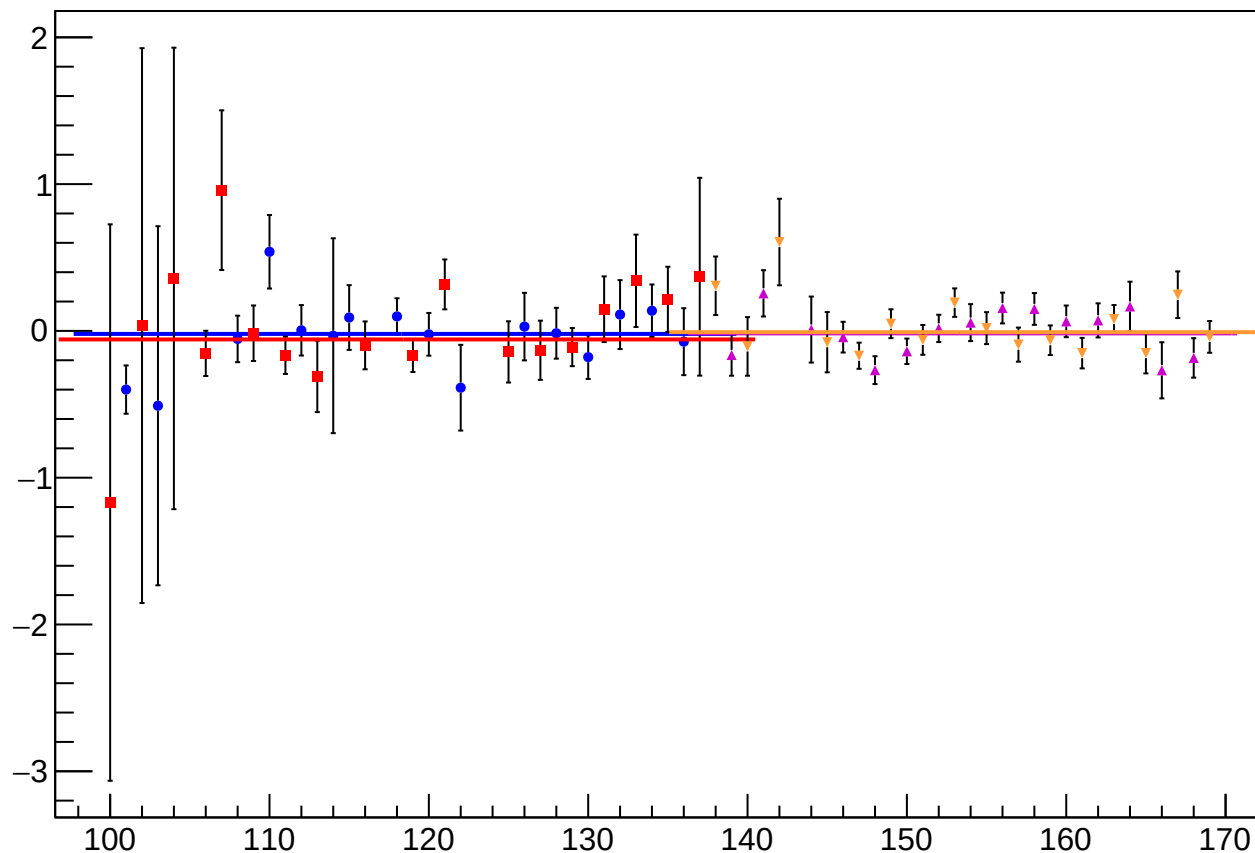
Right: 0.000+/-0.000 χ^2/NDF : 3535596.3/33

In: 0.000+/-0.000 χ^2/NDF : 3199612.0/30

Out: 0.000+/-0.000 χ^2/NDF : 3679559.4/33

All: 0.000+/-0.000 χ^2/NDF : 6916845.4/64

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.048 $\chi^2/\text{NDF}: 15.6/15$

Left Out: -0.009 ± 0.029 $\chi^2/\text{NDF}: 22.7/15$

Right Out: -0.058 ± 0.046 $\chi^2/\text{NDF}: 16.8/17$

Left In: -0.017 ± 0.030 $\chi^2/\text{NDF}: 24.3/14$

Left: -0.013 ± 0.021 $\chi^2/\text{NDF}: 47.0/30$

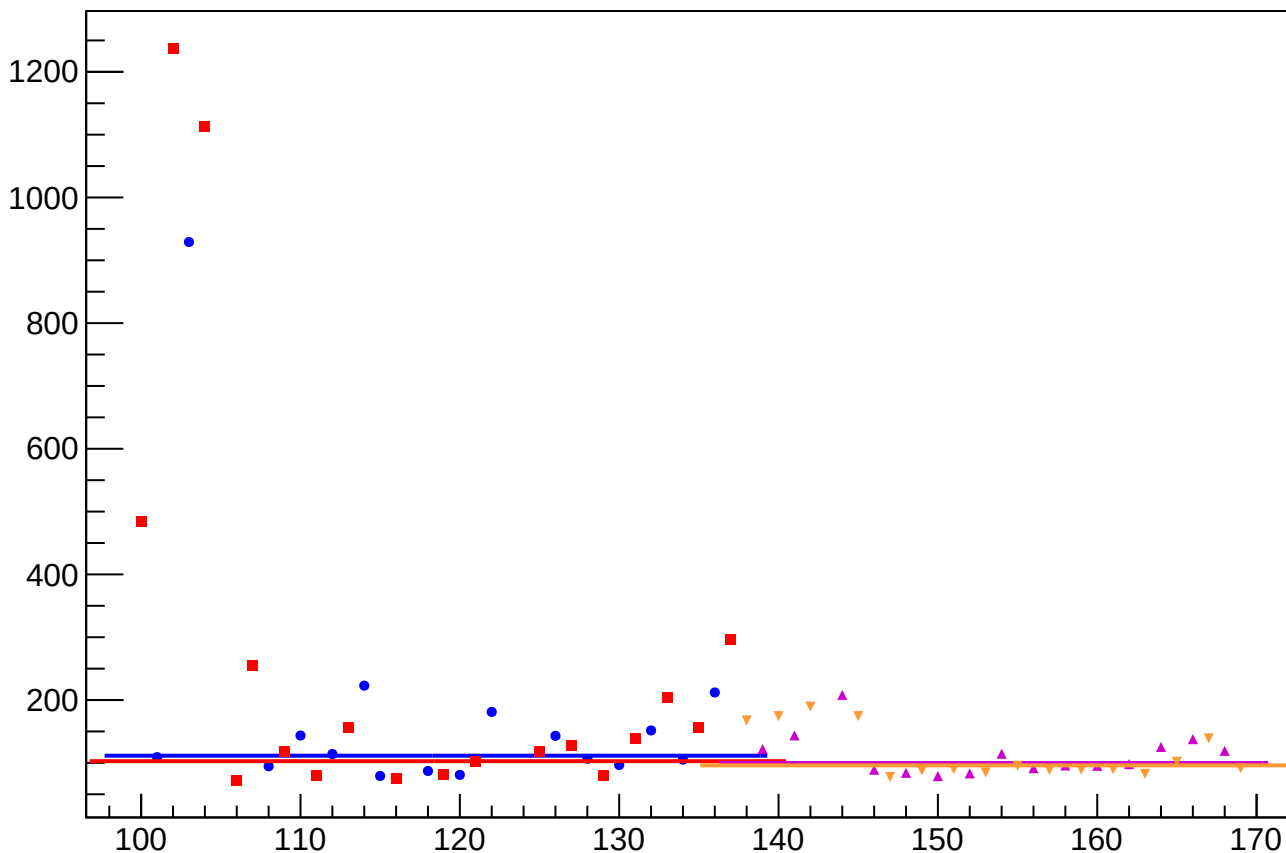
Right: -0.040 ± 0.033 $\chi^2/\text{NDF}: 32.8/33$

In: -0.018 ± 0.026 $\chi^2/\text{NDF}: 39.9/30$

Out: -0.023 ± 0.025 $\chi^2/\text{NDF}: 40.4/33$

All: -0.020 ± 0.018 $\chi^2/\text{NDF}: 80.3/64$

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 111.407 $\pm$ 0.034 χ^2 /NDF: 1839361.2/15

Left Out: 96.013 $\pm$ 0.021 χ^2 /NDF:1409087.9/15

Right Out: 102.673 $\pm$ 0.033 χ^2 /NDF: 2826852.7/17

Left In: 99.779 $\pm$ 0.022 χ^2 /NDF:1136187.4/14

Left: 97.832 $\pm$ 0.015 χ^2 /NDF: 2561101.4/30

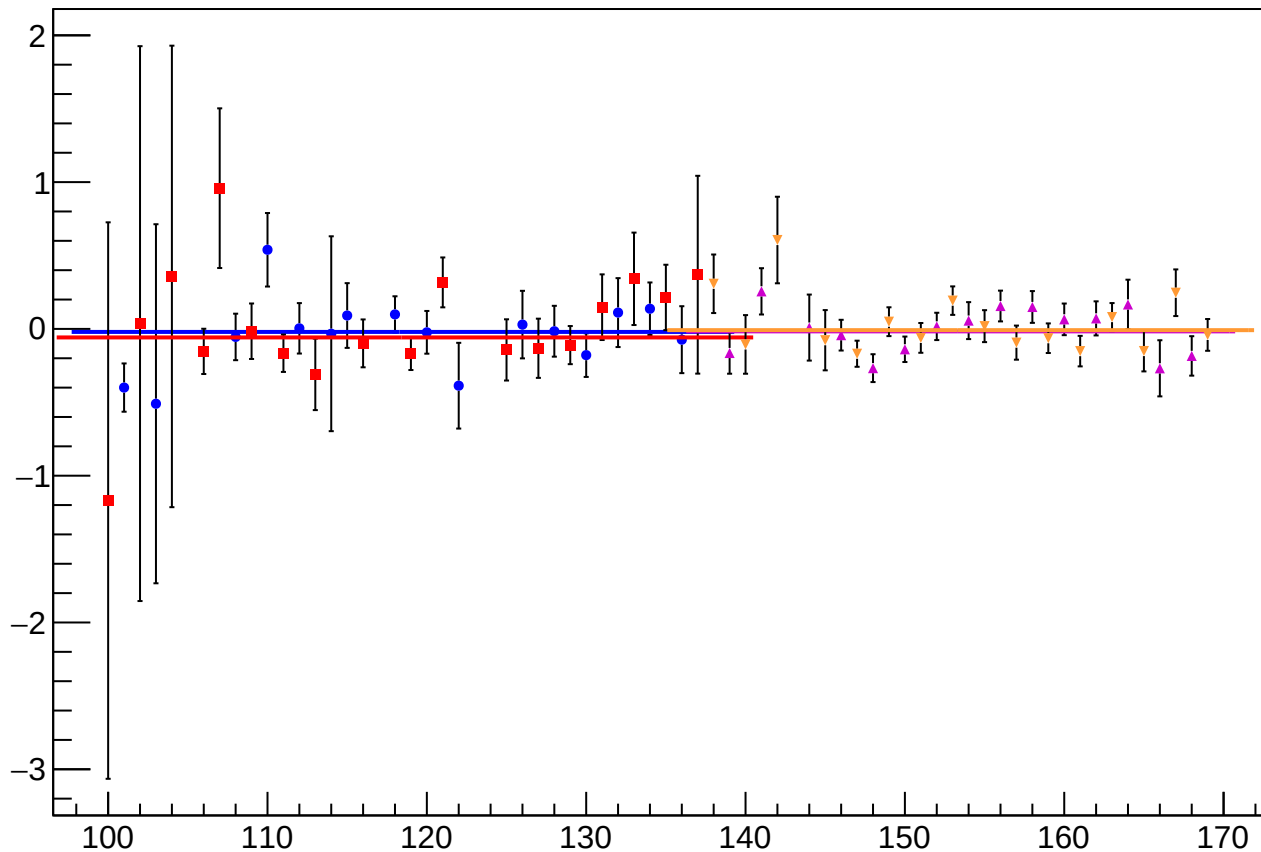
Right: 106.926 $\pm$ 0.024 χ^2 /NDF: 4700716.0/33

In: 103.153 $\pm$ 0.018 χ^2 /NDF:3060160.2/30

Out: 97.923 $\pm$ 0.018 χ^2 /NDF:4265324.4/33

All: 100.455 $\pm$ 0.013 χ^2 /NDF: 7368368.4/64

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.048 $\chi^2/\text{NDF}: 15.6/15$

Left Out: -0.009 ± 0.029 $\chi^2/\text{NDF}: 22.7/15$

Right Out: -0.058 ± 0.046 $\chi^2/\text{NDF}: 16.8/17$

Left In: -0.017 ± 0.030 $\chi^2/\text{NDF}: 24.3/14$

Left: -0.013 ± 0.021 $\chi^2/\text{NDF}: 47.0/30$

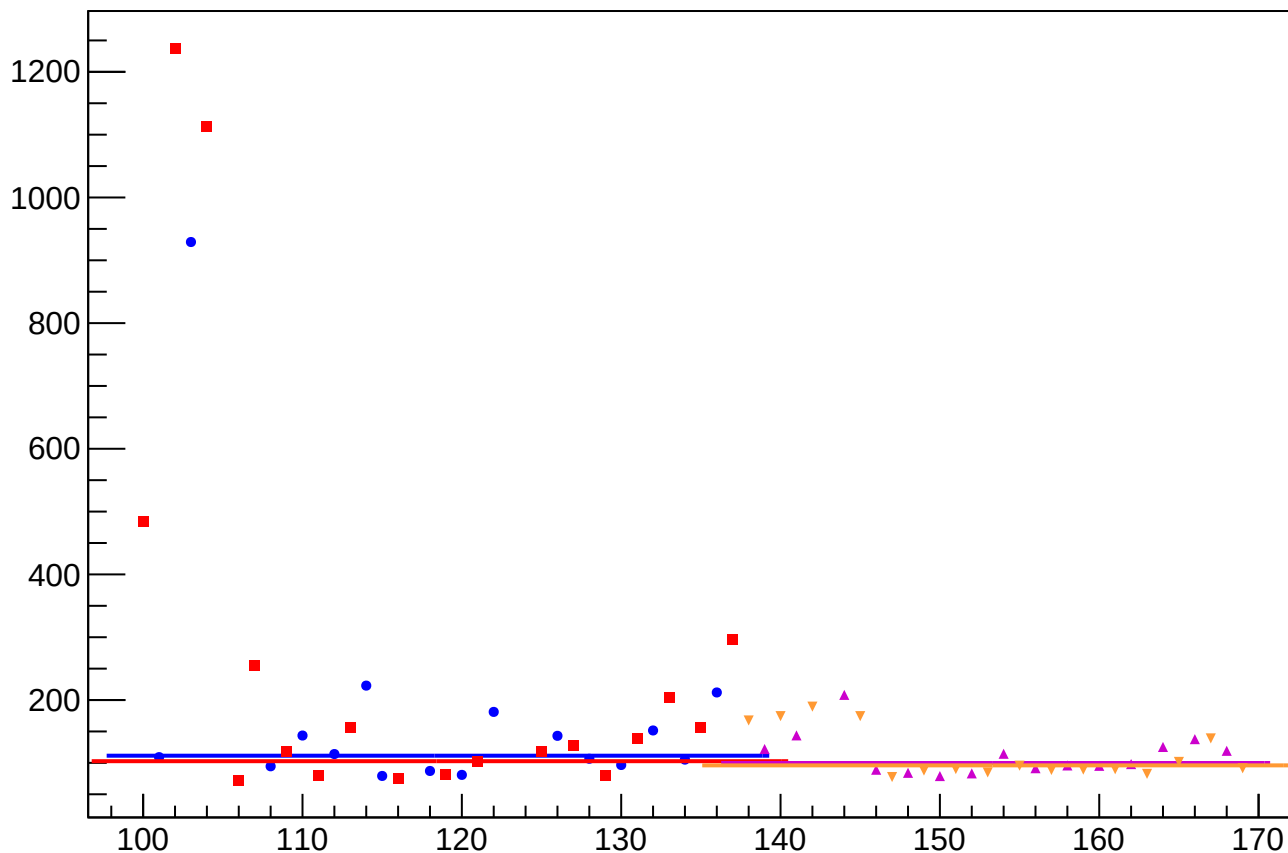
Right: -0.040 ± 0.033 $\chi^2/\text{NDF}: 32.8/33$

In: -0.018 ± 0.026 $\chi^2/\text{NDF}: 39.9/30$

Out: -0.023 ± 0.025 $\chi^2/\text{NDF}: 40.4/33$

All: -0.020 ± 0.018 $\chi^2/\text{NDF}: 80.3/64$

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 111.407 $\pm$ 0.034 χ^2/NDF : 1839361.2/15

Left Out: 96.013 $\pm$ 0.021 χ^2/NDF :1409087.9/15

Right Out: 102.673 $\pm$ 0.033 χ^2/NDF : 2826852.7/17

Left In: 99.779 $\pm$ 0.022 χ^2/NDF :1136187.4/14

Left: 97.832 $\pm$ 0.015 χ^2/NDF : 2561101.4/30

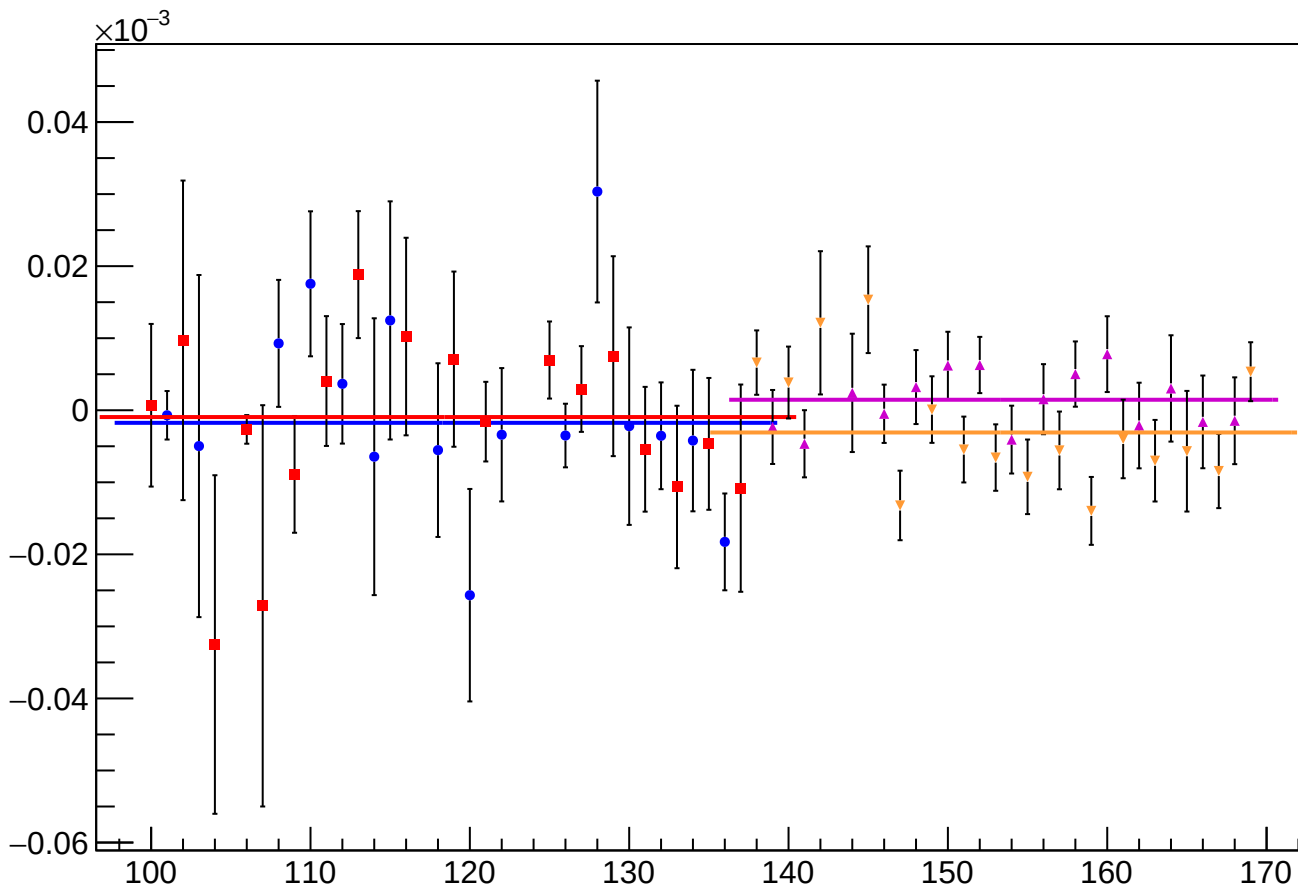
Right: 106.926 $\pm$ 0.024 χ^2/NDF : 4700716.0/33

In: 103.153 $\pm$ 0.018 χ^2/NDF :3060160.2/30

Out: 97.923 $\pm$ 0.018 χ^2/NDF :4265324.4/33

All: 100.455 $\pm$ 0.013 χ^2/NDF : 7368368.4/64

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 20.0/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 33.8/15

Right Out: -0.000 ± 0.000 χ^2/NDF : 15.7/17

Left In: 0.000 ± 0.000 χ^2/NDF : 9.5/14

Left: -0.000 ± 0.000 χ^2/NDF : 49.4/30

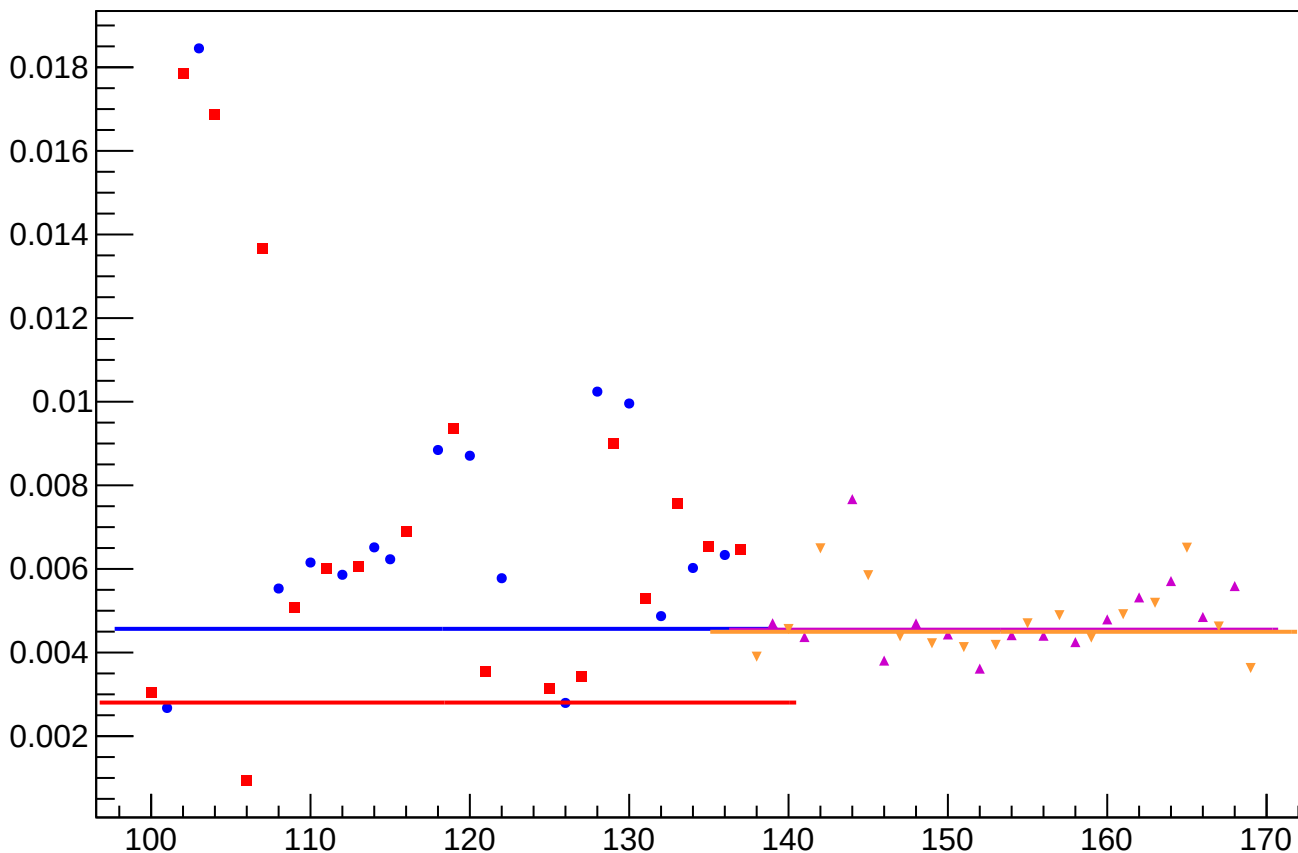
Right: -0.000 ± 0.000 χ^2/NDF : 35.9/33

In: 0.000 ± 0.000 χ^2/NDF : 31.4/30

Out: -0.000 ± 0.000 χ^2/NDF : 50.7/33

All: -0.000 ± 0.000 χ^2/NDF : 85.3/64

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 3012257.6/15

Left Out: 0.004+/-0.000 χ^2/NDF : 477436.9/15

Right Out: 0.003+/-0.000 χ^2/NDF : 6610011.8/17

Left In: 0.005+/-0.000 χ^2/NDF : 641655.5/14

Left: 0.005+/-0.000 χ^2/NDF : 1120593.4/30

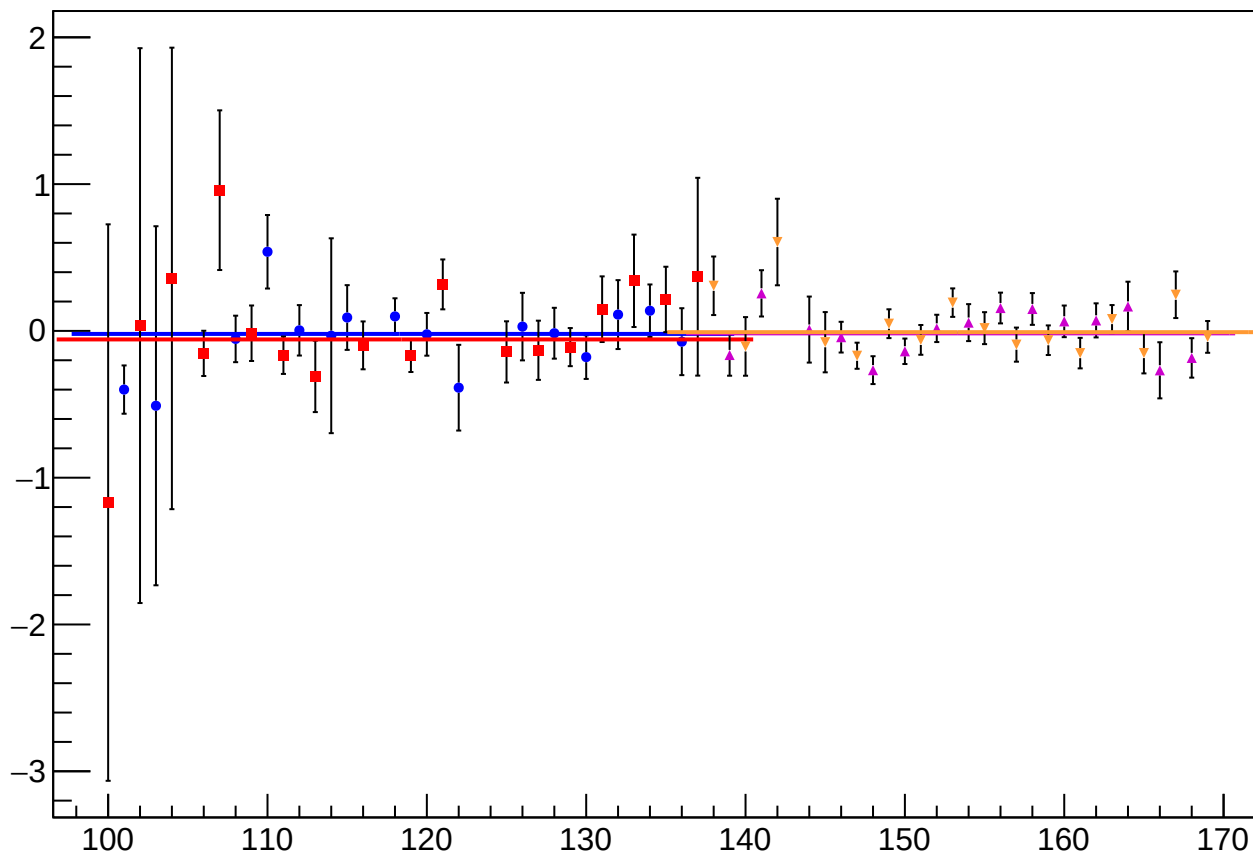
Right: 0.003+/-0.000 χ^2/NDF : 10674508.6/33

In: 0.005+/-0.000 χ^2/NDF : 3654053.7/30

Out: 0.004+/-0.000 χ^2/NDF : 8572798.9/33

All: 0.004+/-0.000 χ^2/NDF : 12816273.6/64

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.048 $\chi^2/\text{NDF}: 15.6/15$

Left Out: -0.009 ± 0.029 $\chi^2/\text{NDF}: 22.7/15$

Right Out: -0.058 ± 0.046 $\chi^2/\text{NDF}: 16.8/17$

Left In: -0.017 ± 0.030 $\chi^2/\text{NDF}: 24.3/14$

Left: -0.013 ± 0.021 $\chi^2/\text{NDF}: 47.0/30$

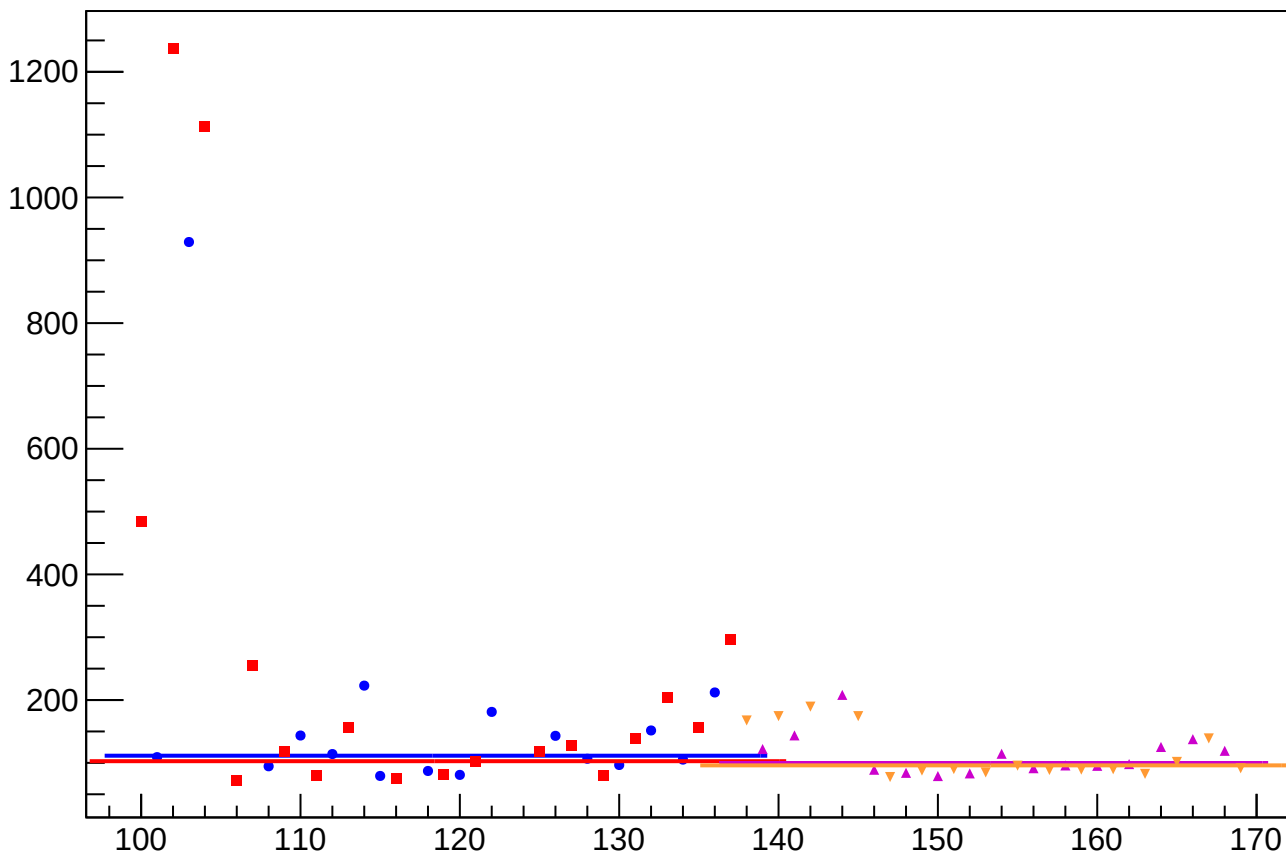
Right: -0.040 ± 0.033 $\chi^2/\text{NDF}: 32.8/33$

In: -0.018 ± 0.026 $\chi^2/\text{NDF}: 39.9/30$

Out: -0.023 ± 0.025 $\chi^2/\text{NDF}: 40.4/33$

All: -0.020 ± 0.018 $\chi^2/\text{NDF}: 80.3/64$

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 111.404 $\pm$ 0.034 χ^2 /NDF: 1839407.3/15

Left Out: 96.013 $\pm$ 0.021 χ^2 /NDF:1409069.6/15

Right Out: 102.671 $\pm$ 0.033 χ^2 /NDF: 2826848.2/17

Left In: 99.780 $\pm$ 0.022 χ^2 /NDF:1136173.1/14

Left: 97.832 $\pm$ 0.015 χ^2 /NDF: 2561066.7/30

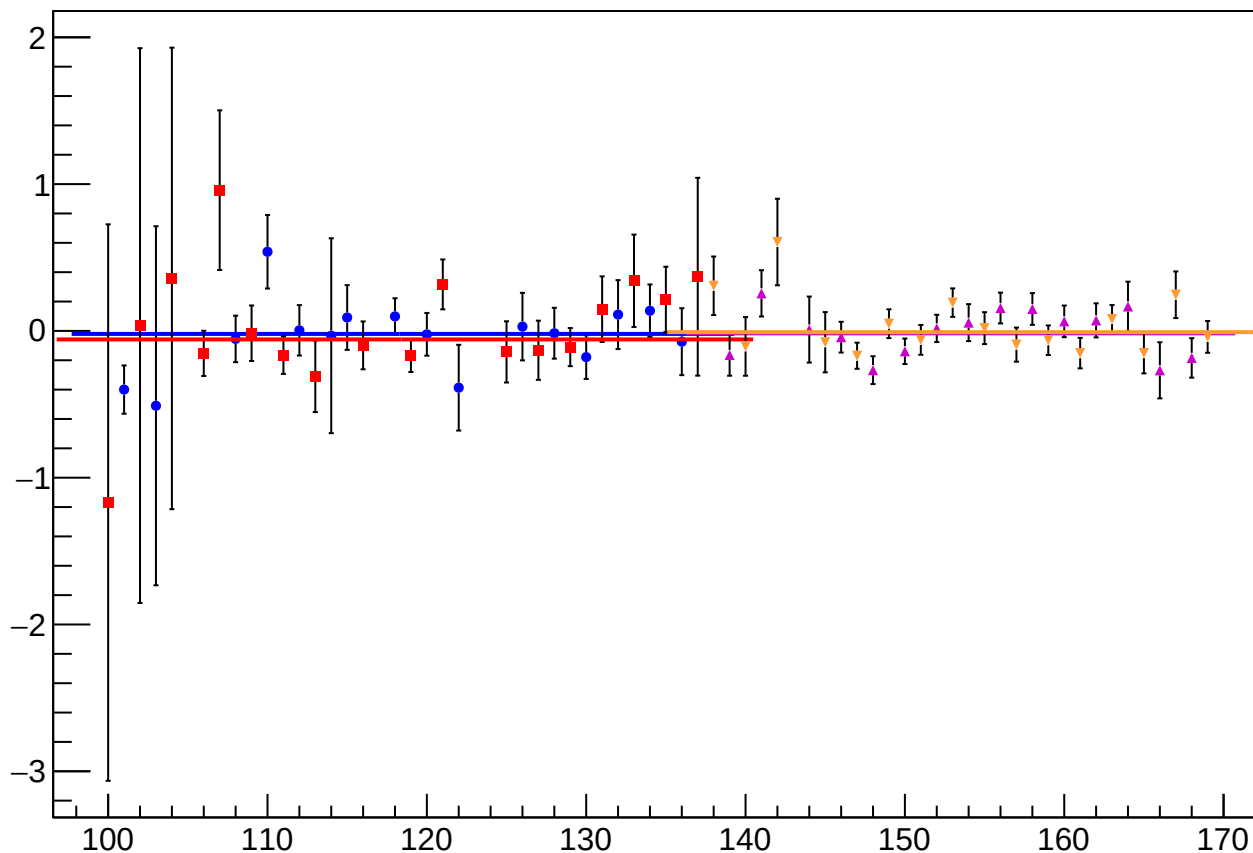
Right: 106.924 $\pm$ 0.024 χ^2 /NDF: 4700749.9/33

In: 103.152 $\pm$ 0.018 χ^2 /NDF:3060149.8/30

Out: 97.923 $\pm$ 0.018 χ^2 /NDF:4265283.0/33

All: 100.454 $\pm$ 0.013 χ^2 /NDF: 7368309.6/64

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.048 $\chi^2/\text{NDF}: 15.6/15$

Left Out: -0.009 ± 0.029 $\chi^2/\text{NDF}: 22.7/15$

Right Out: -0.058 ± 0.046 $\chi^2/\text{NDF}: 16.8/17$

Left In: -0.017 ± 0.030 $\chi^2/\text{NDF}: 24.3/14$

Left: -0.013 ± 0.021 $\chi^2/\text{NDF}: 47.0/30$

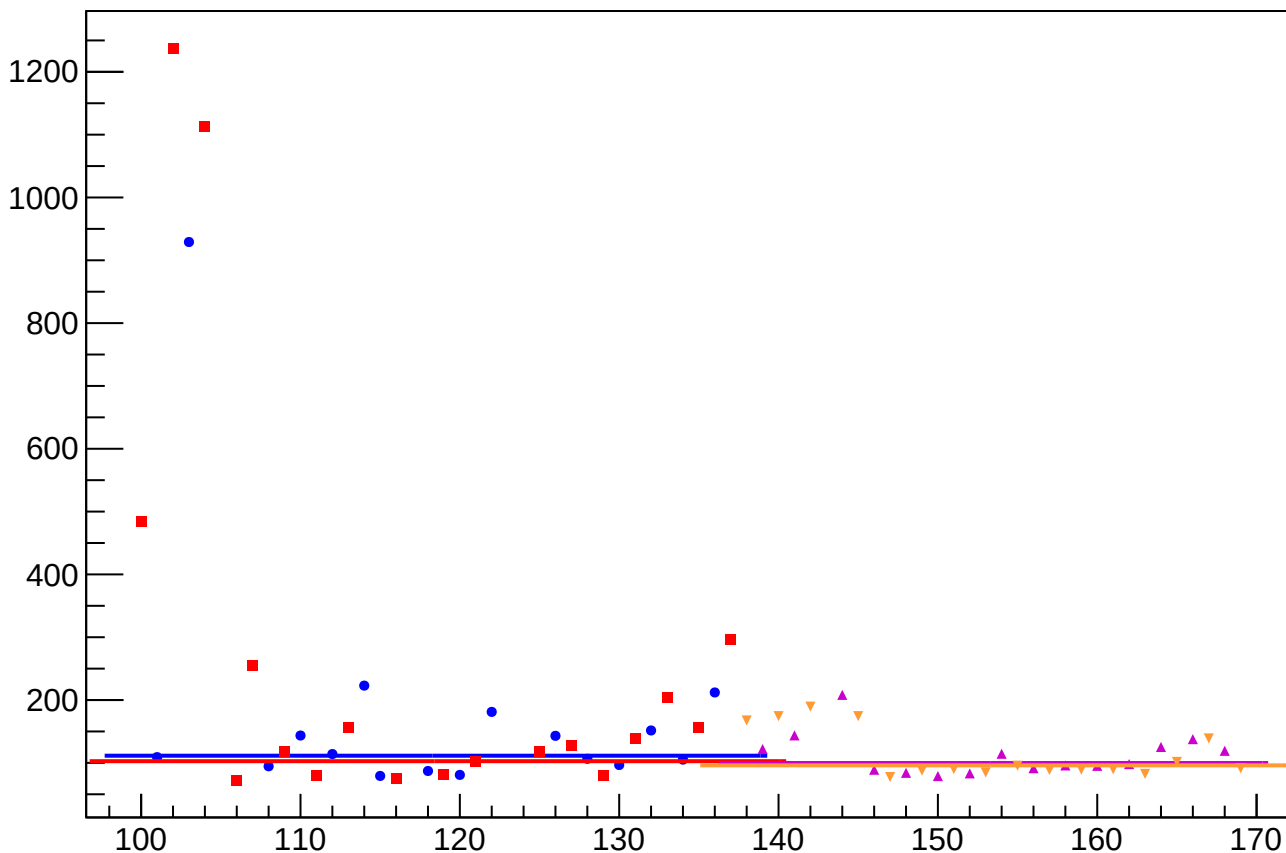
Right: -0.040 ± 0.033 $\chi^2/\text{NDF}: 32.8/33$

In: -0.018 ± 0.026 $\chi^2/\text{NDF}: 39.9/30$

Out: -0.023 ± 0.025 $\chi^2/\text{NDF}: 40.4/33$

All: -0.020 ± 0.018 $\chi^2/\text{NDF}: 80.3/64$

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 111.404 $\pm$ 0.034 χ^2 /NDF: 1839407.3/15

Left Out: 96.013 $\pm$ 0.021 χ^2 /NDF:1409069.6/15

Right Out: 102.671 $\pm$ 0.033 χ^2 /NDF: 2826848.2/17

Left In: 99.780 $\pm$ 0.022 χ^2 /NDF:1136173.1/14

Left: 97.832 $\pm$ 0.015 χ^2 /NDF: 2561066.7/30

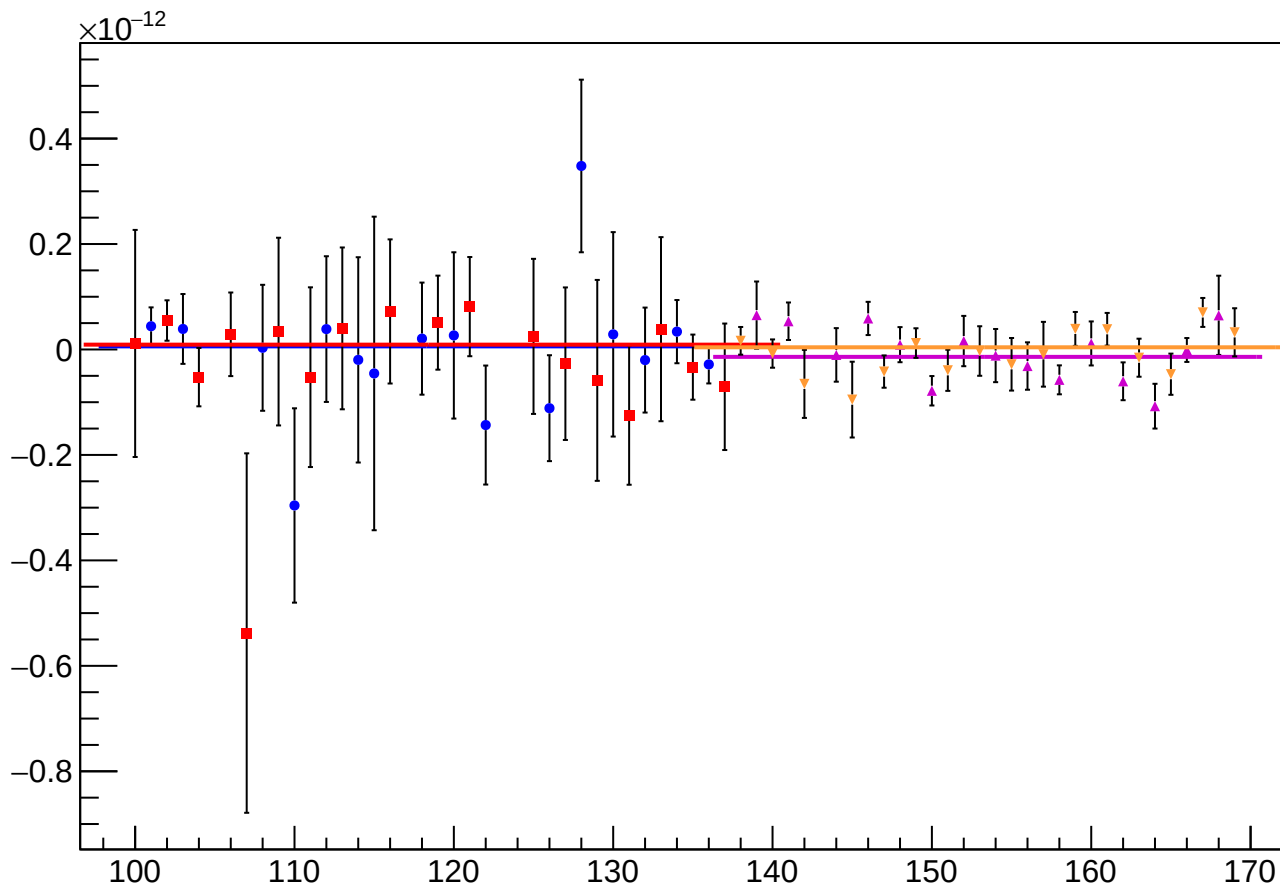
Right: 106.924 $\pm$ 0.024 χ^2 /NDF: 4700749.9/33

In: 103.152 $\pm$ 0.018 χ^2 /NDF:3060149.8/30

Out: 97.923 $\pm$ 0.018 χ^2 /NDF:4265283.0/33

All: 100.454 $\pm$ 0.013 χ^2 /NDF: 7368309.6/64

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 18.1/15

Right Out: 0.000+/-0.000 χ^2/NDF : 8.7/17

Left In: -0.000+/-0.000 χ^2/NDF : 27.7/14

Left: -0.000+/-0.000 χ^2/NDF : 47.8/30

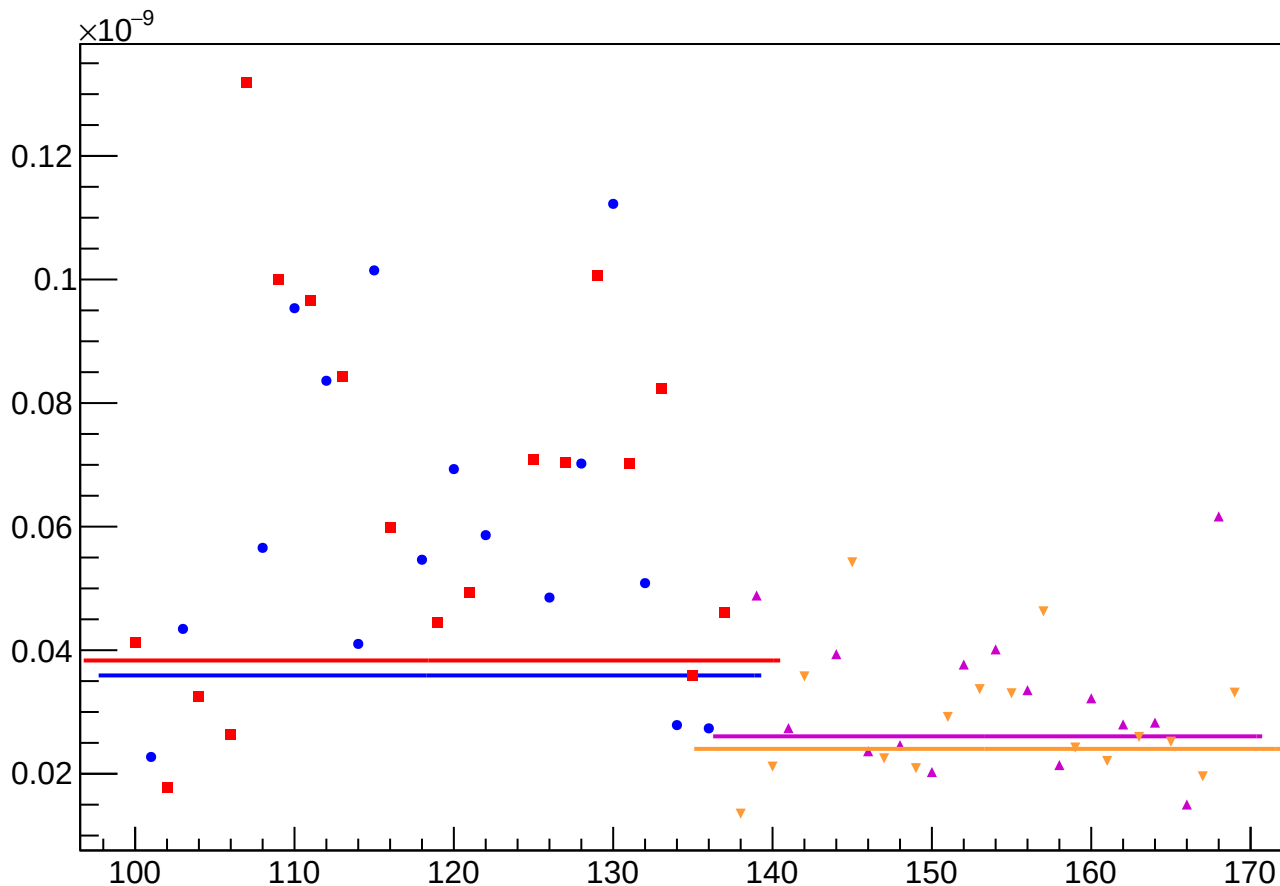
Right: 0.000+/-0.000 χ^2/NDF : 21.6/33

In: -0.000+/-0.000 χ^2/NDF : 41.4/30

Out: 0.000+/-0.000 χ^2/NDF : 26.9/33

All: -0.000+/-0.000 χ^2/NDF : 69.9/64

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1759038.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1385690.6/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2202319.8/17

Left In: 0.000+/-0.000 χ^2/NDF :1860977.6/14

Left: 0.000+/-0.000 χ^2/NDF : 3295693.6/30

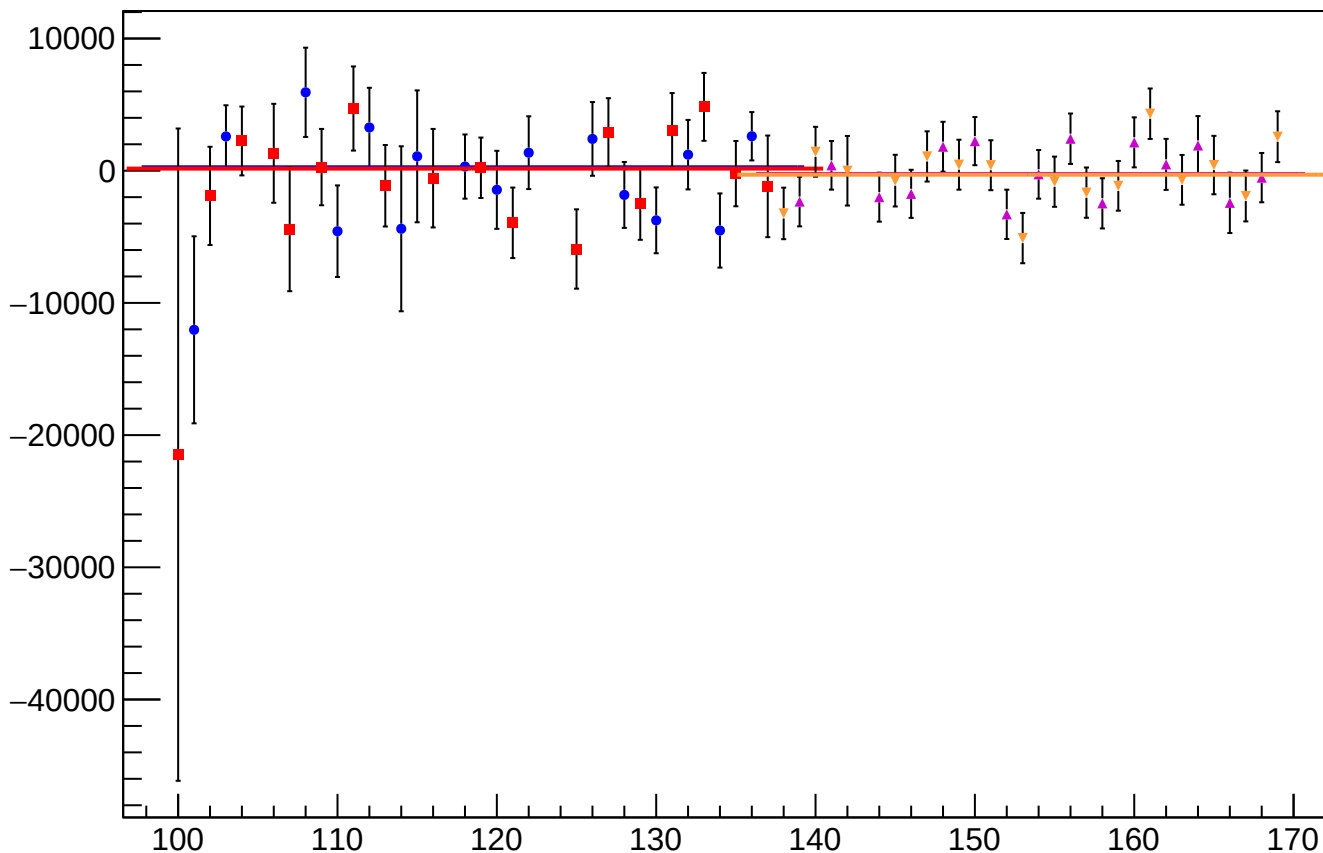
Right: 0.000+/-0.000 χ^2/NDF : 3975413.5/33

In: 0.000+/-0.000 χ^2/NDF :4045724.2/30

Out: 0.000+/-0.000 χ^2/NDF :4337388.1/33

All: 0.000+/-0.000 χ^2/NDF : 8433082.7/64

reg_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 259.502 $\pm$ 709.700 χ^2 /NDF: 19.4/15

Left Out: -300.978 $\pm$ 487.830 χ^2 /NDF:20.1/15

Right Out: 159.330 $\pm$ 712.314 χ^2 /NDF: 18.1/17

Left In: -246.521 $\pm$ 492.697 χ^2 /NDF:15.6/14

Left: -274.020 $\pm$ 346.656 χ^2 /NDF: 35.7/30

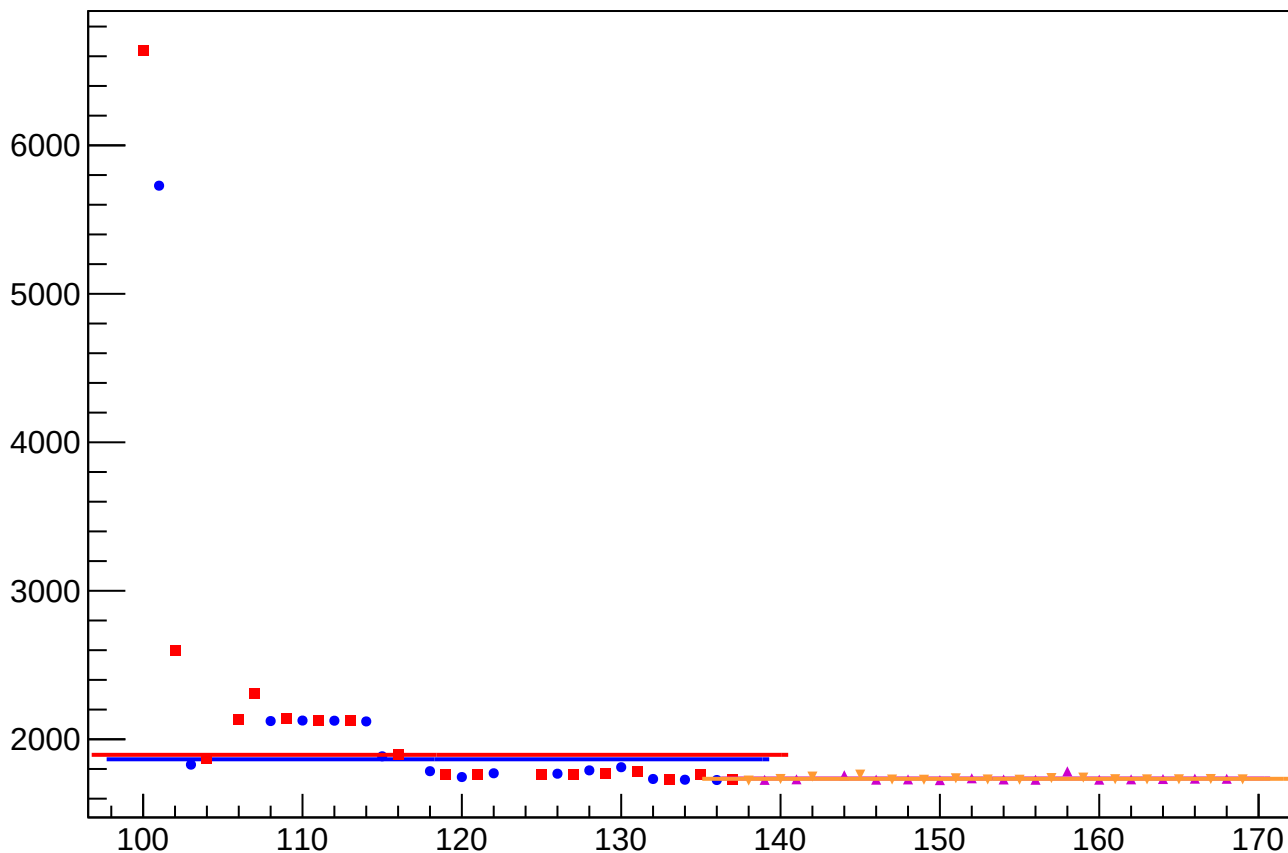
Right: 209.600 $\pm$ 502.755 χ^2 /NDF: 37.5/33

In: -81.953 $\pm$ 404.726 χ^2 /NDF:35.4/30

Out: -154.013 $\pm$ 402.489 χ^2 /NDF:38.4/33

All: -118.183 $\pm$ 285.391 χ^2 /NDF: 73.8/64

reg_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1865.170 $\pm$ 0.502 χ^2 /NDF: 672724.7/15

Left Out: 1733.783 $\pm$ 0.345 χ^2 /NDF: 706.3/15

Right Out: 1895.250 $\pm$ 0.504 χ^2 /NDF: 250806.5/17

Left In: 1735.822 $\pm$ 0.348 χ^2 /NDF: 1887.5/14

Left: 1734.793 $\pm$ 0.245 χ^2 /NDF: 2611.1/30

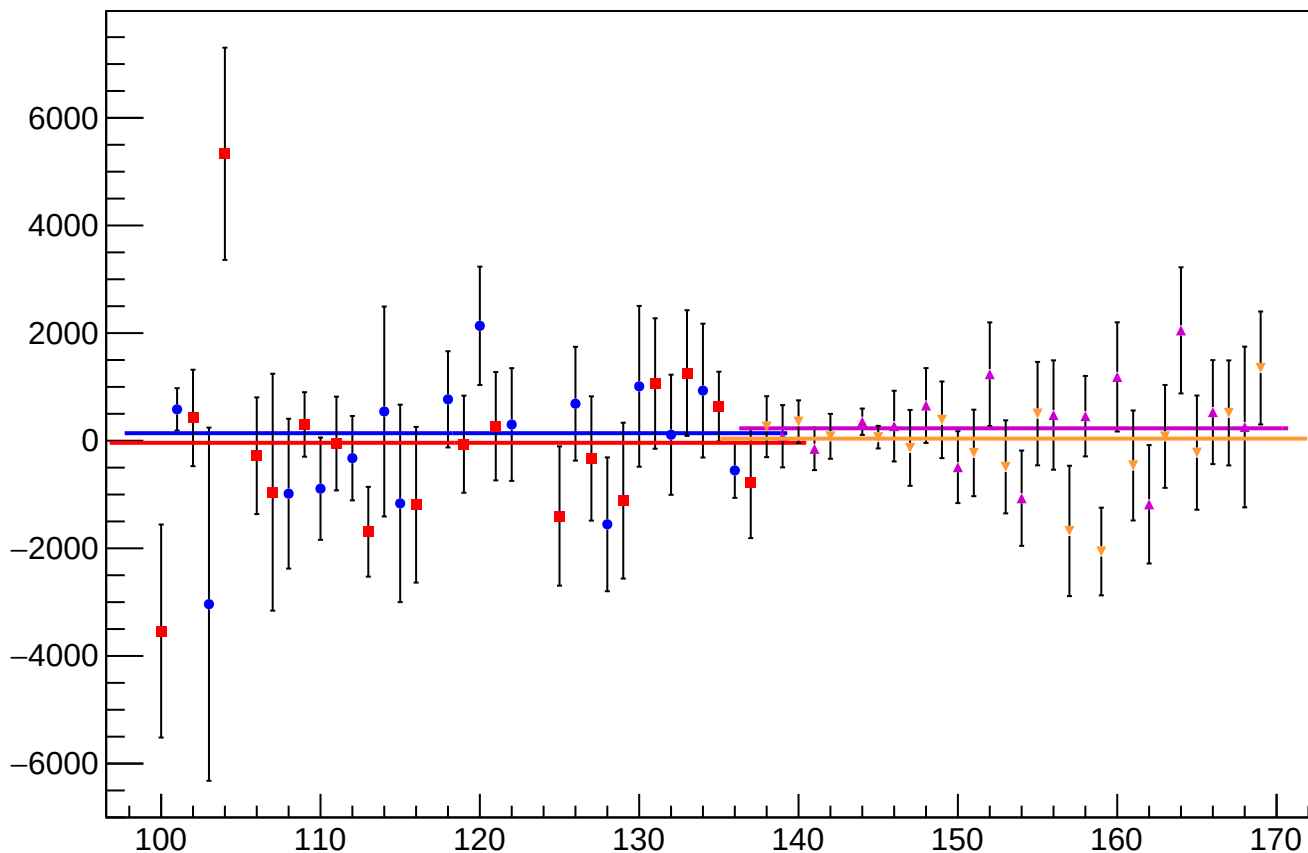
Right: 1880.155 $\pm$ 0.356 χ^2 /NDF: 925321.0/33

In: 1777.888 $\pm$ 0.286 χ^2 /NDF: 719442.1/30

Out: 1785.336 $\pm$ 0.285 χ^2 /NDF: 321468.4/33

All: 1781.633 $\pm$ 0.202 χ^2 /NDF: 1041251.0/64

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 139.799+/-220.100 χ^2/NDF : 13.5/15

Left Out: 39.181+/-137.391 χ^2/NDF :12.6/15

Right Out: -38.629+/-238.253 χ^2/NDF : 21.4/17

Left In: 230.576+/-154.623 χ^2/NDF :11.2/14

Left: 123.623+/-102.704 χ^2/NDF : 24.7/30

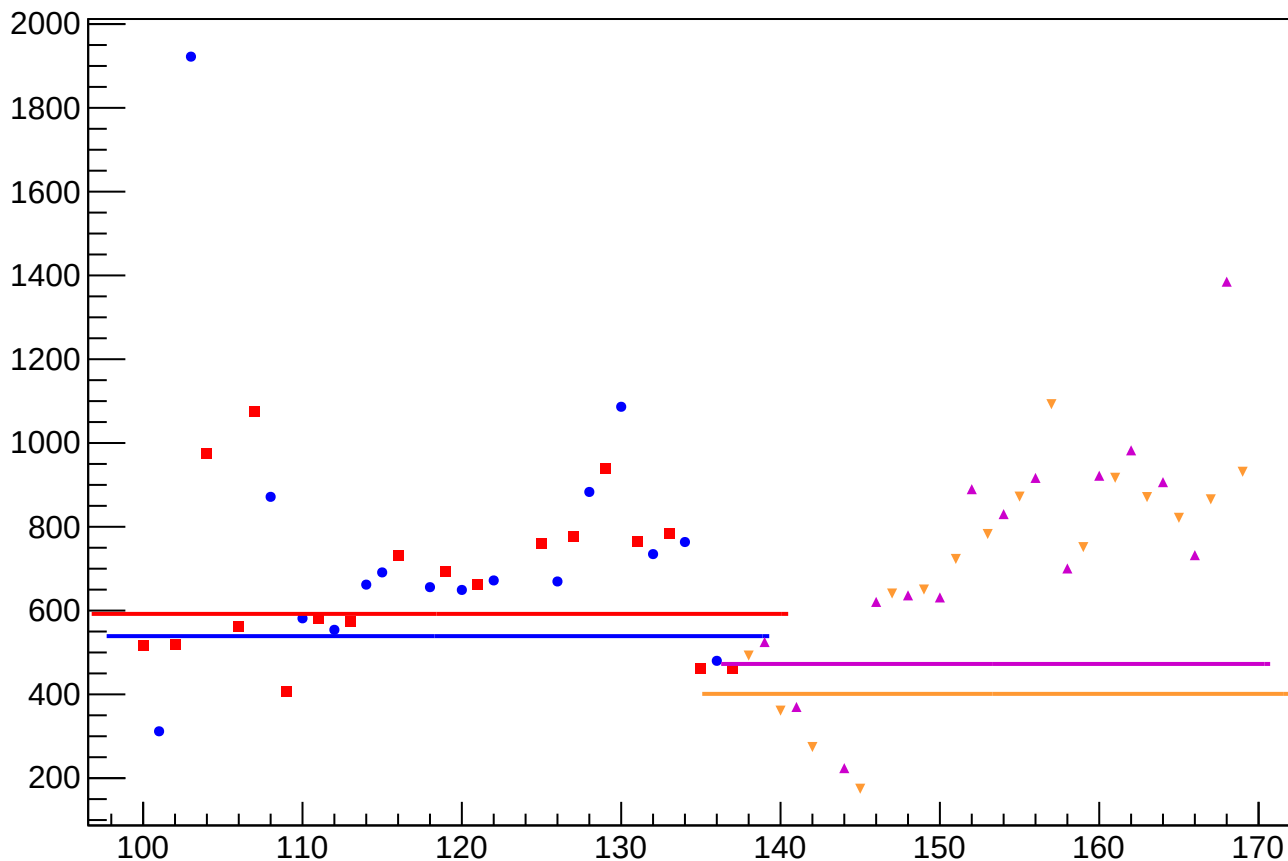
Right: 57.640+/-161.672 χ^2/NDF : 35.2/33

In: 200.579+/-126.523 χ^2/NDF :24.8/30

Out: 19.763+/-119.019 χ^2/NDF :34.0/33

All: 104.651+/-86.691 χ^2/NDF : 59.9/64

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 539.016+/-0.156 χ^2/NDF : 1854576.5/15

Left Out: 401.193+/-0.097 χ^2/NDF : 7539988.5/15

Right Out: 592.101+/-0.168 χ^2/NDF : 843066.1/17

Left In: 472.620+/-0.109 χ^2/NDF : 5793398.9/14

Left: 432.706+/-0.073 χ^2/NDF : 13571877.6/30

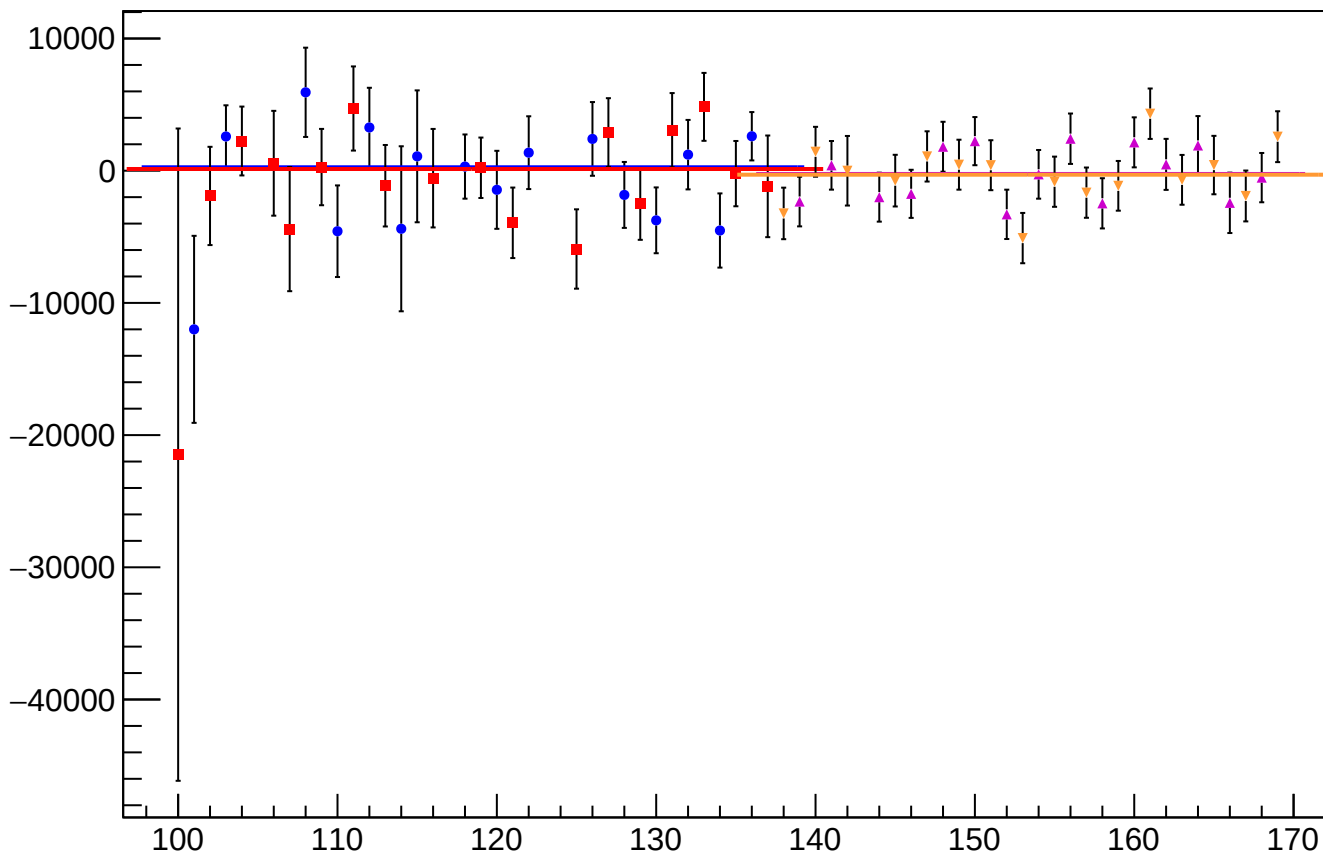
Right: 563.459+/-0.114 χ^2/NDF : 2751212.3/33

In: 494.560+/-0.089 χ^2/NDF : 7769834.9/30

Out: 448.834+/-0.084 χ^2/NDF : 9346709.8/33

All: 470.301+/-0.061 χ^2/NDF : 17255134.1/64

cor_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 259.689 $\pm$ 709.700 χ^2 /NDF: 19.4/15

Left Out: -300.941 $\pm$ 487.830 χ^2 /NDF:20.1/15

Right Out: 130.049 $\pm$ 713.724 χ^2 /NDF: 18.0/17

Left In: -246.530 $\pm$ 492.697 χ^2 /NDF:15.6/14

Left: -274.006 $\pm$ 346.656 χ^2 /NDF: 35.7/30

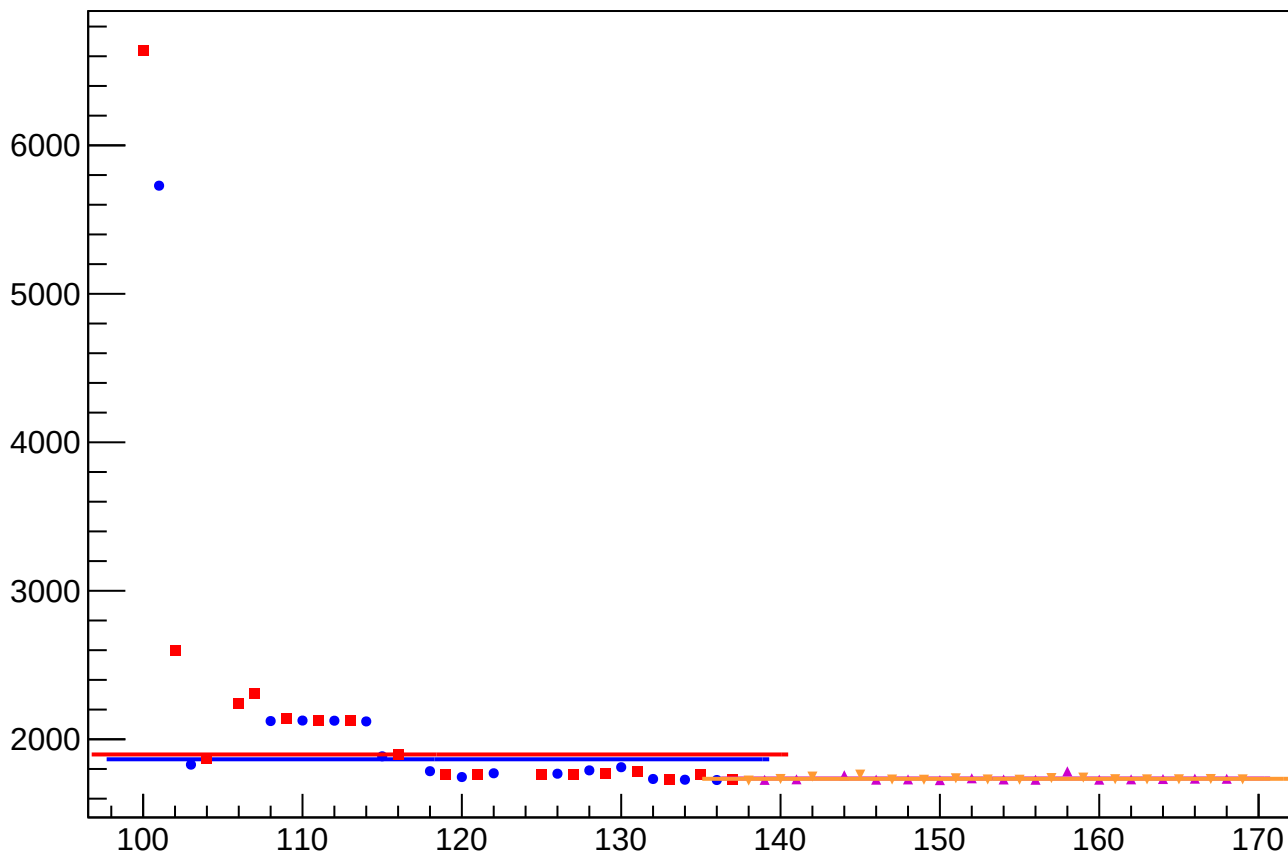
Right: 195.236 $\pm$ 503.250 χ^2 /NDF: 37.4/33

In: -81.898 $\pm$ 404.726 χ^2 /NDF:35.4/30

Out: -163.707 $\pm$ 402.743 χ^2 /NDF:38.3/33

All: -123.004 $\pm$ 285.481 χ^2 /NDF: 73.7/64

cor_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1865.170+/-0.502 χ^2/NDF : 672724.7/15

Left Out: 1733.783+/-0.345 χ^2/NDF : 706.3/15

Right Out: 1897.700+/-0.505 χ^2/NDF : 257735.0/17

Left In: 1735.822+/-0.348 χ^2/NDF : 1887.5/14

Left: 1734.793+/-0.245 χ^2/NDF : 2611.1/30

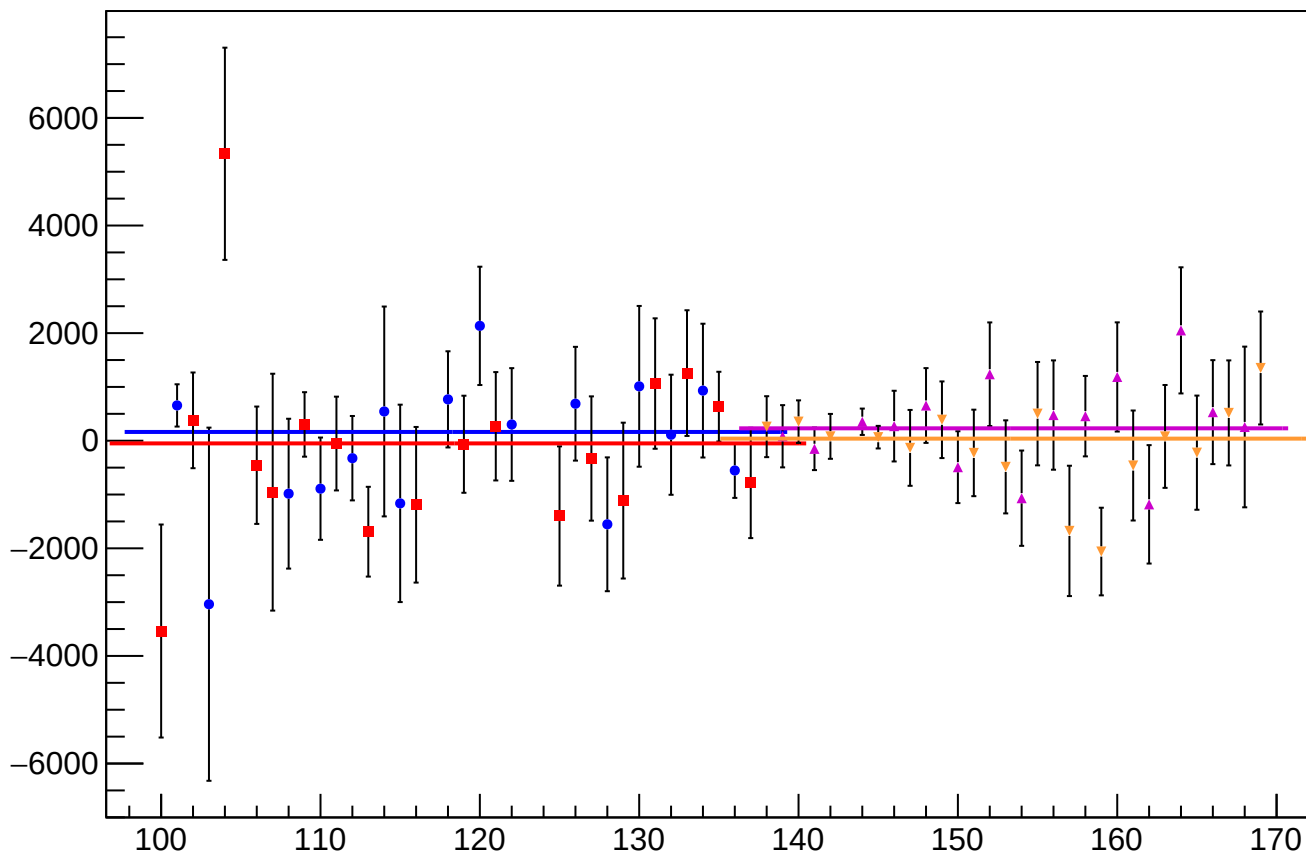
Right: 1881.343+/-0.356 χ^2/NDF : 932548.8/33

In: 1777.888+/-0.286 χ^2/NDF : 719442.0/30

Out: 1785.977+/-0.285 χ^2/NDF : 330342.5/33

All: 1781.953+/-0.202 χ^2/NDF : 1050185.9/64

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 163.149+/-220.024 χ^2/NDF : 13.9/15

Left Out: 39.039+/-137.393 χ^2/NDF :12.6/15

Right Out: -49.618+/-238.198 χ^2/NDF : 21.4/17

Left In: 230.571+/-154.624 χ^2/NDF :11.2/14

Left: 123.542+/-102.705 χ^2/NDF : 24.7/30

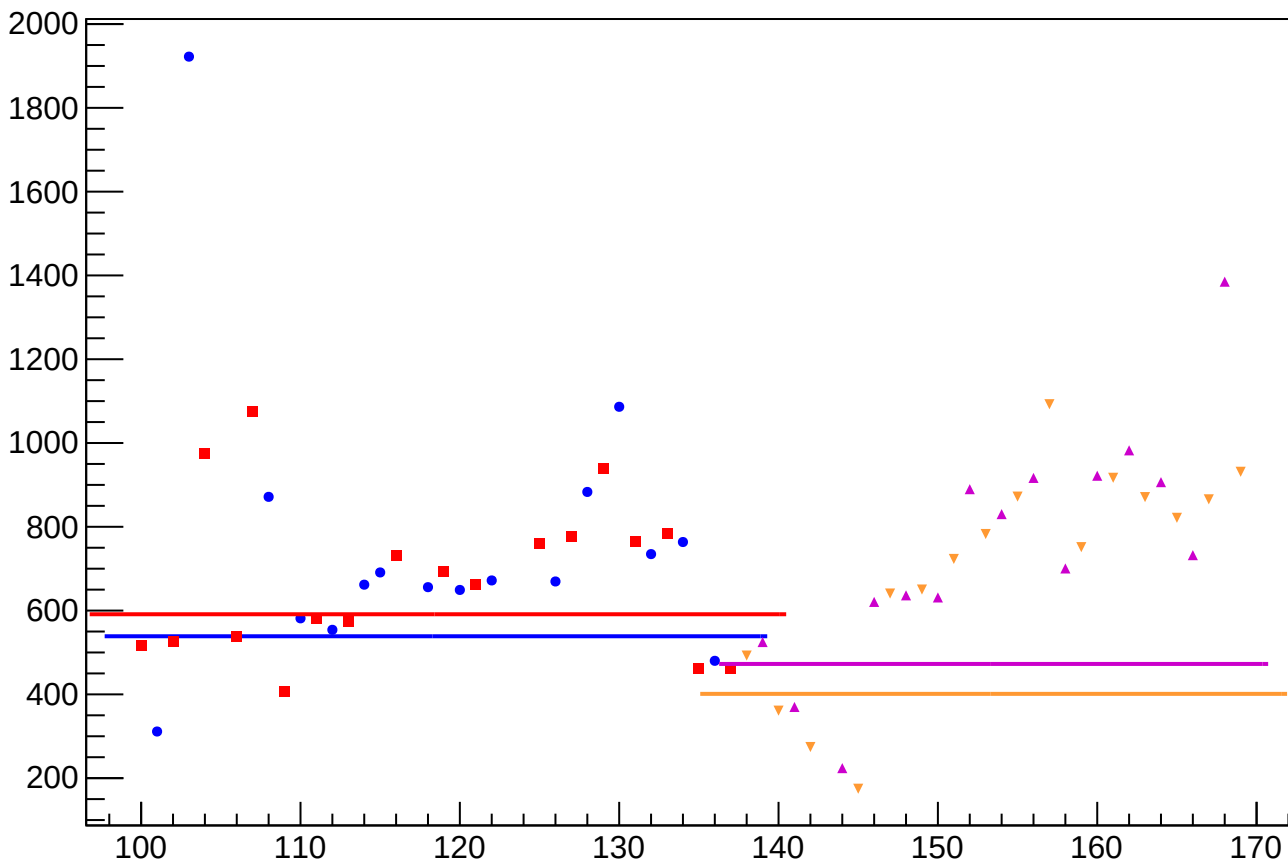
Right: 65.191+/-161.624 χ^2/NDF : 35.8/33

In: 208.282+/-126.509 χ^2/NDF :25.2/30

Out: 16.906+/-119.014 χ^2/NDF :34.1/33

All: 106.758+/-86.684 χ^2/NDF : 60.5/64

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 538.703 $\pm$ 0.156 χ^2 /NDF: 1858892.9/15

Left Out: 401.203 $\pm$ 0.097 χ^2 /NDF: 7539709.1/15

Right Out: 591.241 $\pm$ 0.168 χ^2 /NDF: 844536.8/17

Left In: 472.629 $\pm$ 0.109 χ^2 /NDF: 5793041.1/14

Left: 432.716 $\pm$ 0.073 χ^2 /NDF: 13571228.8/30

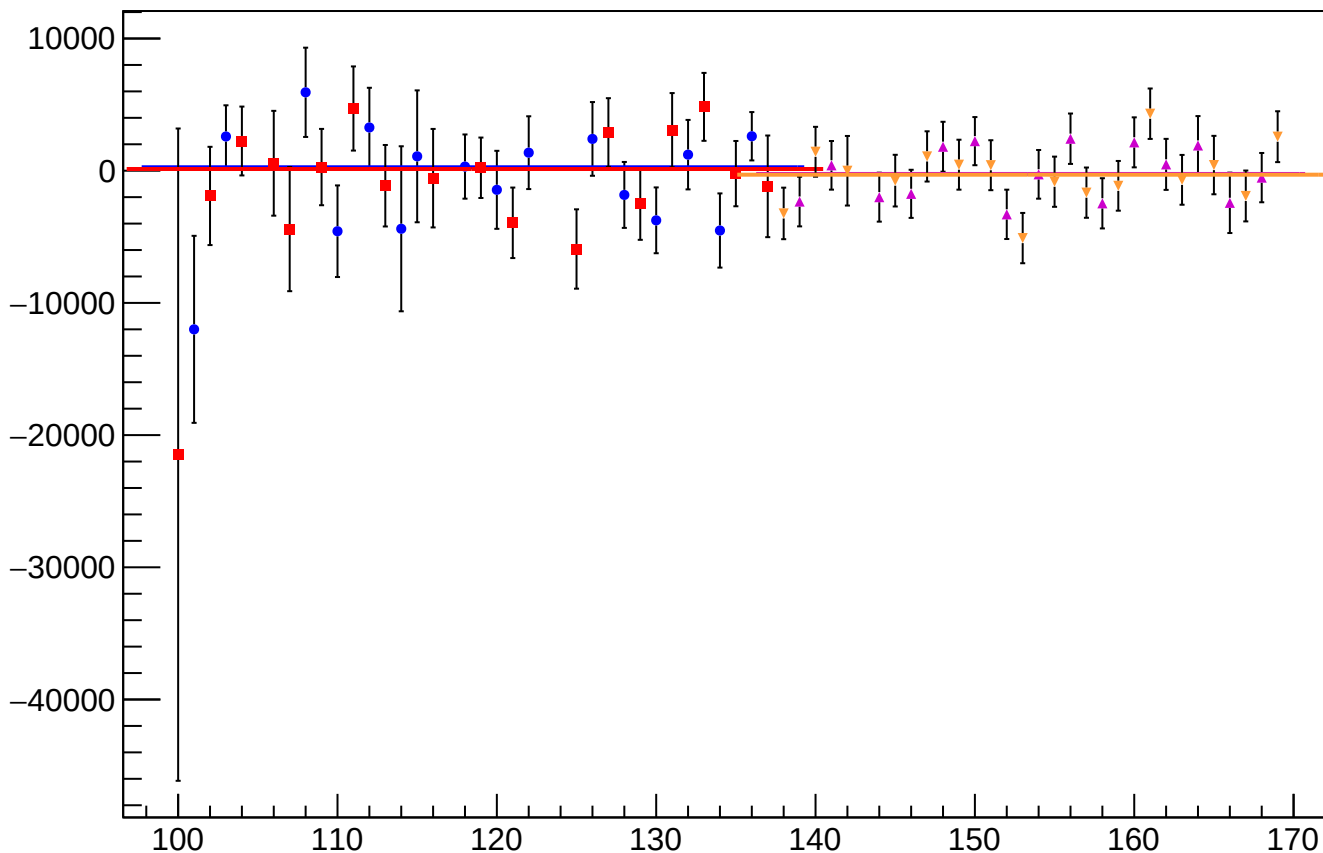
Right: 562.892 $\pm$ 0.114 χ^2 /NDF: 2755931.5/33

In: 494.473 $\pm$ 0.089 χ^2 /NDF: 7772672.3/30

Out: 448.645 $\pm$ 0.084 χ^2 /NDF: 9339474.0/33

All: 470.161 $\pm$ 0.061 χ^2 /NDF: 17251378.1/64

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 259.689 $\pm$ 709.700 χ^2 /NDF: 19.4/15

Left Out: -300.941 $\pm$ 487.830 χ^2 /NDF:20.1/15

Right Out: 130.049 $\pm$ 713.724 χ^2 /NDF: 18.0/17

Left In: -246.530 $\pm$ 492.697 χ^2 /NDF:15.6/14

Left: -274.006 $\pm$ 346.656 χ^2 /NDF: 35.7/30

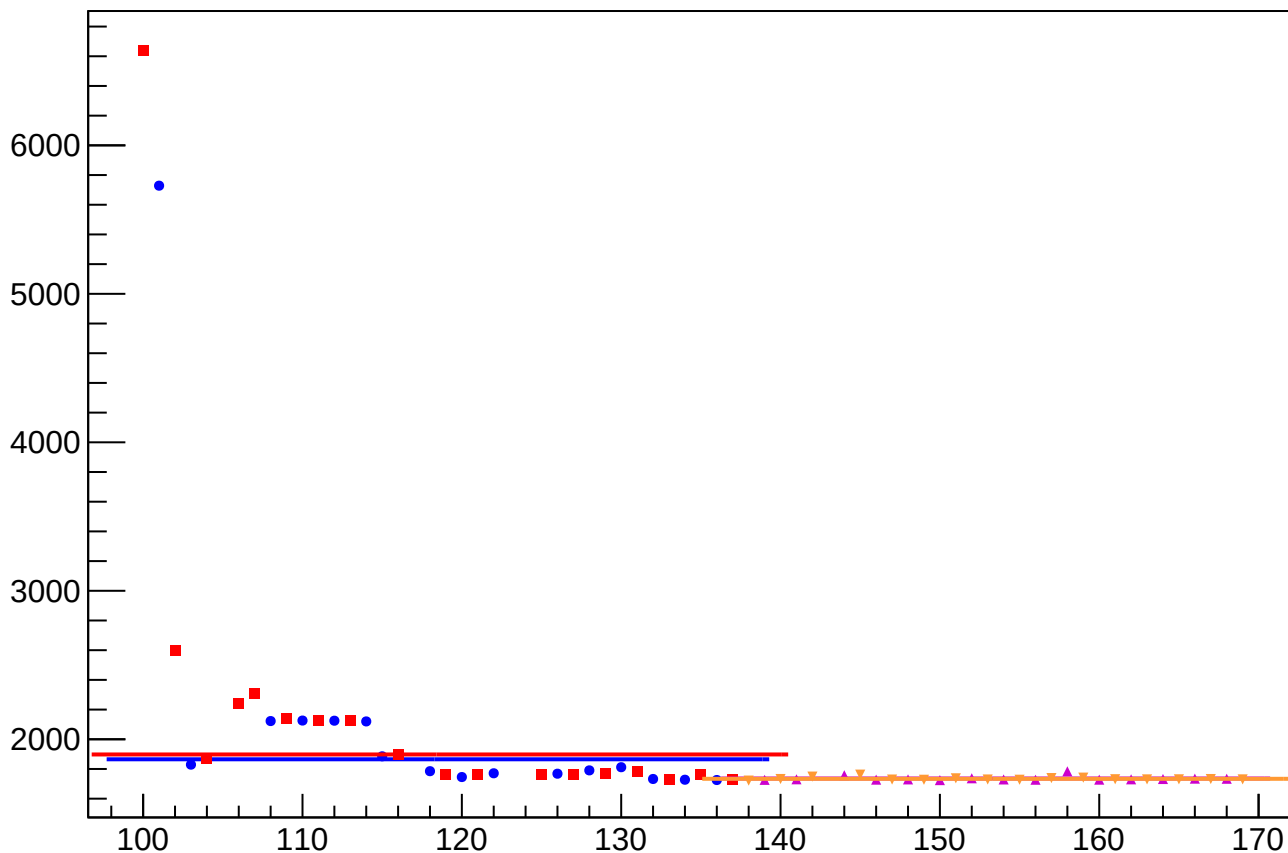
Right: 195.236 $\pm$ 503.250 χ^2 /NDF: 37.4/33

In: -81.898 $\pm$ 404.726 χ^2 /NDF:35.4/30

Out: -163.707 $\pm$ 402.743 χ^2 /NDF:38.3/33

All: -123.004 $\pm$ 285.481 χ^2 /NDF: 73.7/64

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1865.170+/-0.502 χ^2/NDF : 672724.7/15

Left Out: 1733.783+/-0.345 χ^2/NDF : 706.3/15

Right Out: 1897.700+/-0.505 χ^2/NDF : 257735.0/17

Left In: 1735.822+/-0.348 χ^2/NDF : 1887.5/14

Left: 1734.793+/-0.245 χ^2/NDF : 2611.1/30

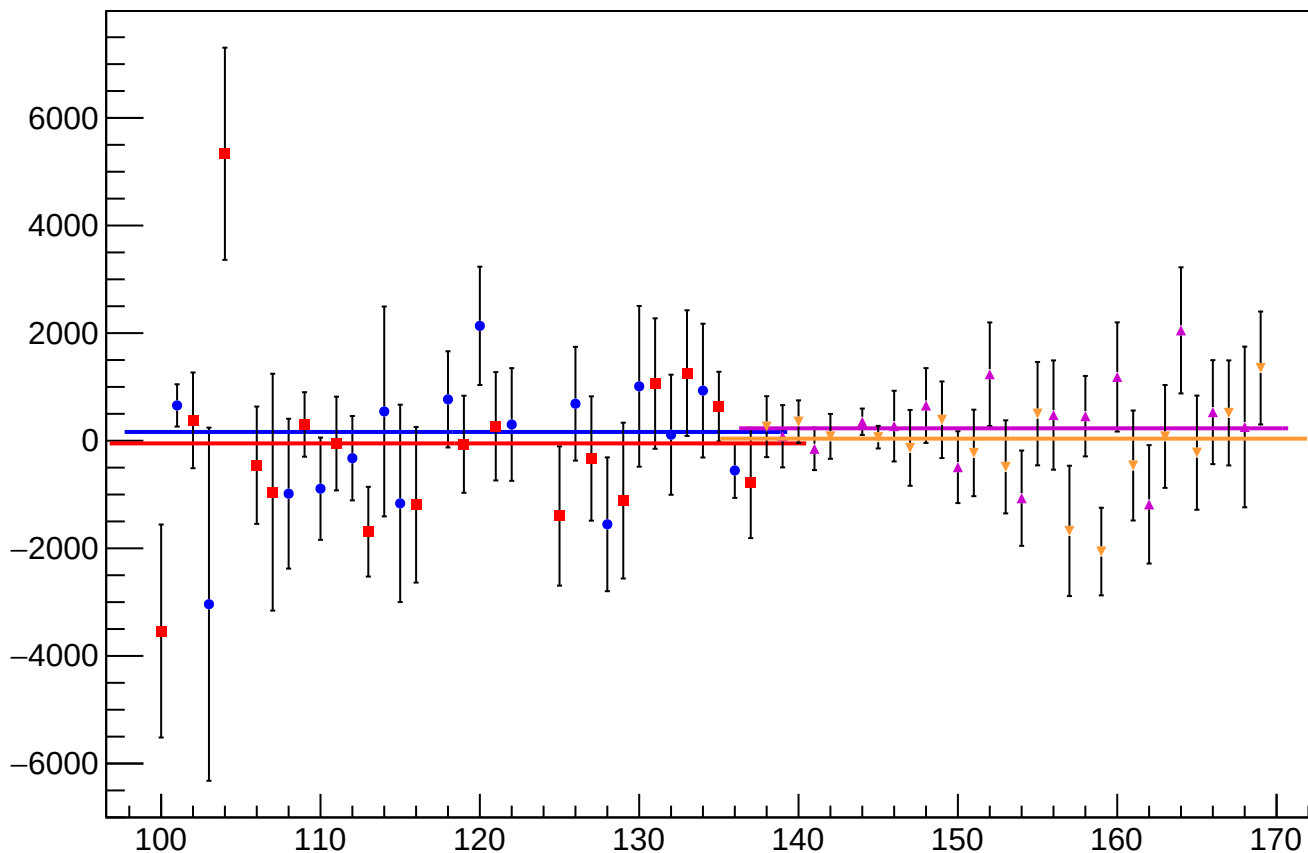
Right: 1881.343+/-0.356 χ^2/NDF : 932548.8/33

In: 1777.888+/-0.286 χ^2/NDF : 719442.0/30

Out: 1785.977+/-0.285 χ^2/NDF : 330342.5/33

All: 1781.953+/-0.202 χ^2/NDF : 1050185.9/64

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 163.149 $\pm$ 220.024 χ^2 /NDF: 13.9/15

Left Out: 39.039 $\pm$ 137.393 χ^2 /NDF:12.6/15

Right Out: -49.618 $\pm$ 238.198 χ^2 /NDF: 21.4/17

Left In: 230.571 $\pm$ 154.624 χ^2 /NDF:11.2/14

Left: 123.542 $\pm$ 102.705 χ^2 /NDF: 24.7/30

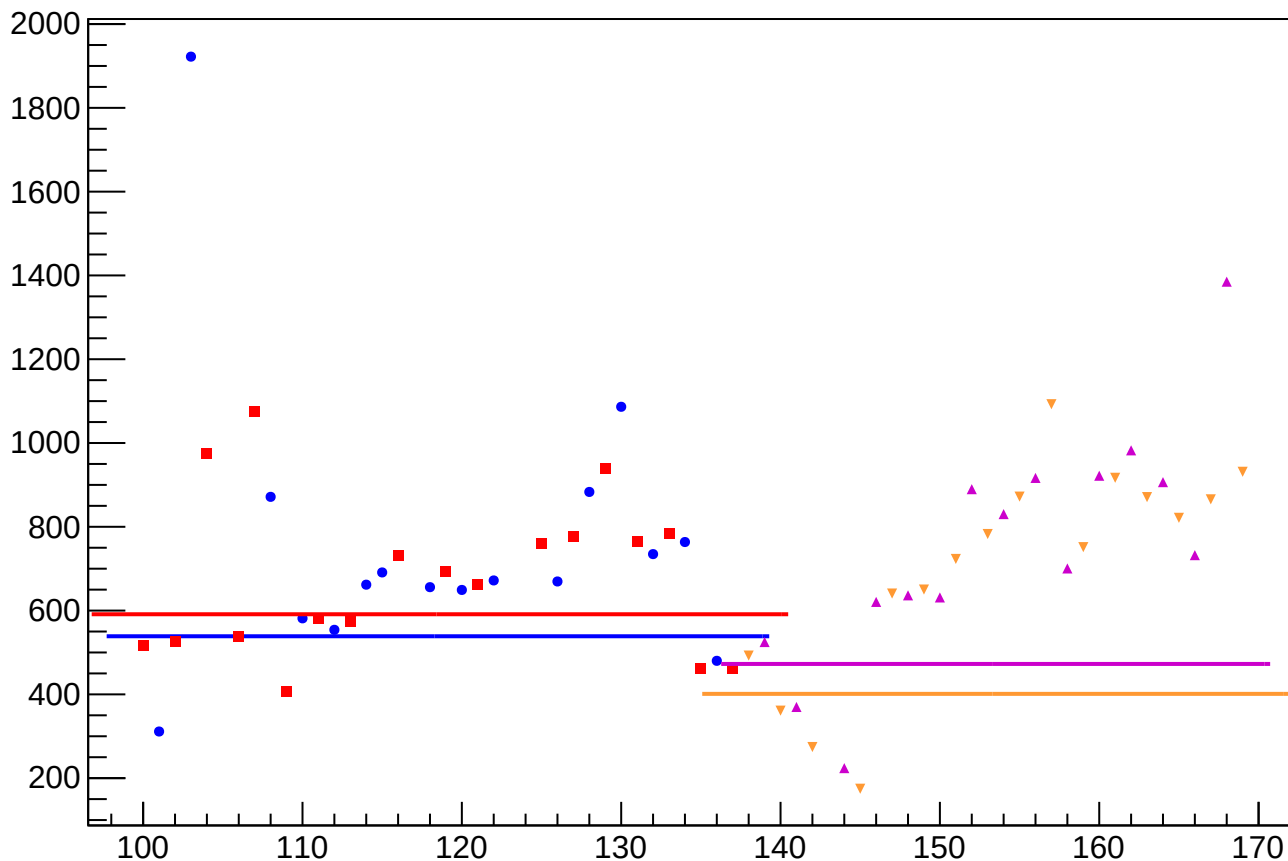
Right: 65.191 $\pm$ 161.624 χ^2 /NDF: 35.8/33

In: 208.282 $\pm$ 126.509 χ^2 /NDF:25.2/30

Out: 16.906 $\pm$ 119.014 χ^2 /NDF:34.1/33

All: 106.758 $\pm$ 86.684 χ^2 /NDF: 60.5/64

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 538.703 $\pm$ 0.156 χ^2 /NDF: 1858892.9/15

Left Out: 401.203 $\pm$ 0.097 χ^2 /NDF: 7539709.1/15

Right Out: 591.241 $\pm$ 0.168 χ^2 /NDF: 844536.8/17

Left In: 472.629 $\pm$ 0.109 χ^2 /NDF: 5793041.1/14

Left: 432.716 $\pm$ 0.073 χ^2 /NDF: 13571228.8/30

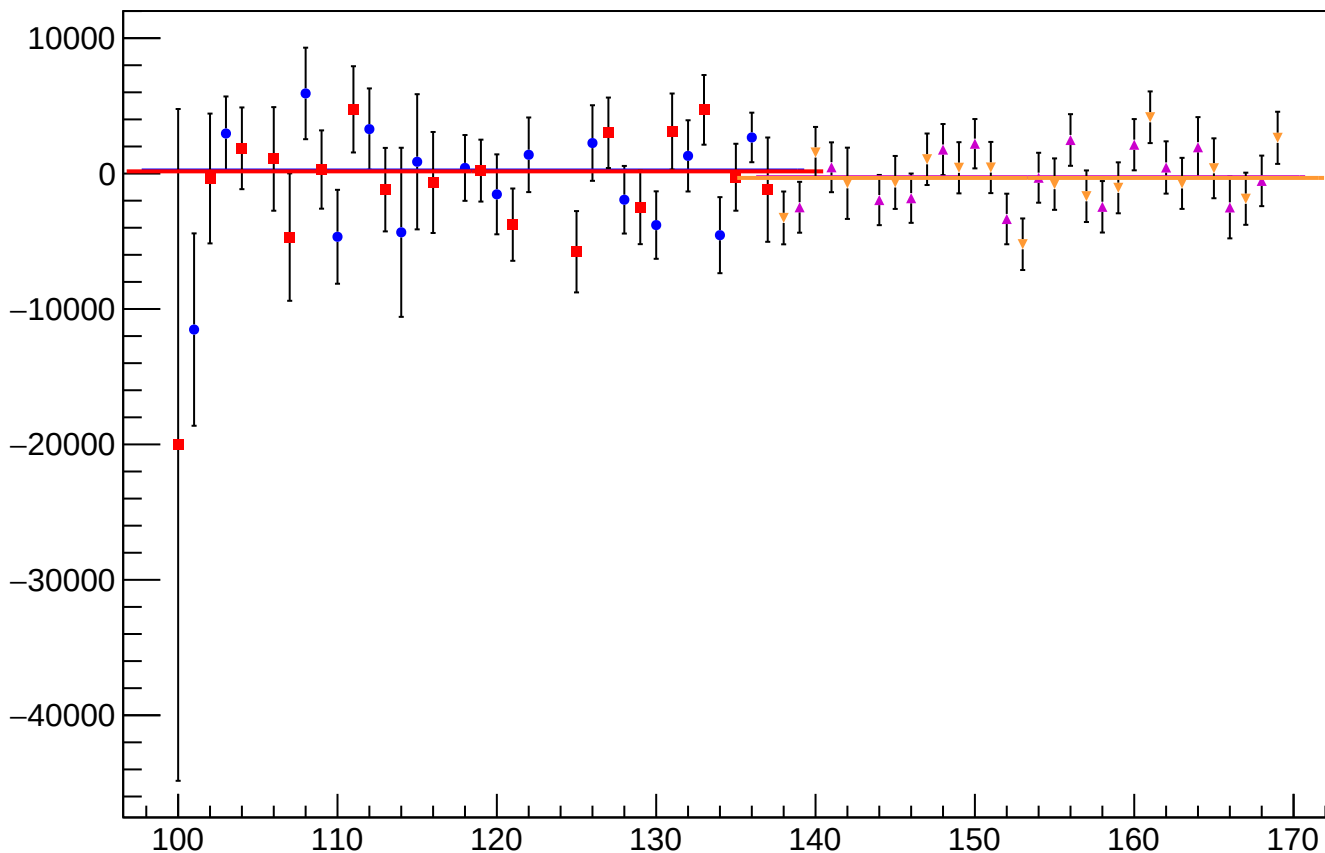
Right: 562.892 $\pm$ 0.114 χ^2 /NDF: 2755931.5/33

In: 494.473 $\pm$ 0.089 χ^2 /NDF: 7772672.3/30

Out: 448.645 $\pm$ 0.084 χ^2 /NDF: 9339474.0/33

All: 470.161 $\pm$ 0.061 χ^2 /NDF: 17251378.1/64

dit_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 226.227 $\pm$ 718.556 χ^2 /NDF: 19.4/15

Left Out: -320.703 $\pm$ 488.163 χ^2 /NDF:20.2/15

Right Out: 163.711 $\pm$ 725.798 χ^2 /NDF: 17.0/17

Left In: -266.502 $\pm$ 493.019 χ^2 /NDF:16.0/14

Left: -293.871 $\pm$ 346.888 χ^2 /NDF: 36.1/30

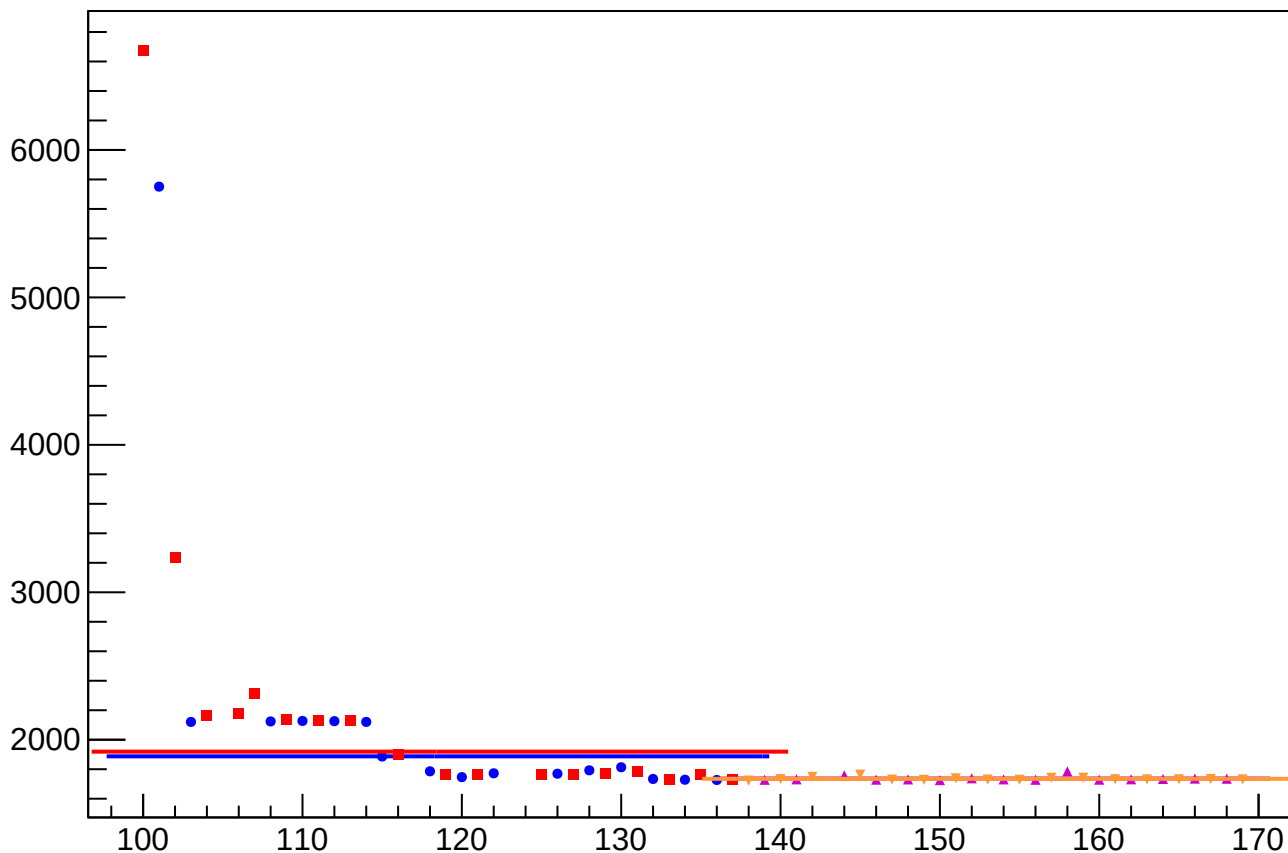
Right: 195.282 $\pm$ 510.637 χ^2 /NDF: 36.4/33

In: -108.788 $\pm$ 406.529 χ^2 /NDF:35.7/30

Out: -169.822 $\pm$ 405.066 χ^2 /NDF:37.5/33

All: -139.415 $\pm$ 286.941 χ^2 /NDF: 73.2/64

dit_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1887.310+/-0.508 χ^2/NDF : 689442.6/15

Left Out: 1734.965+/-0.345 χ^2/NDF : 711.6/15

Right Out: 1919.164+/-0.513 χ^2/NDF : 352567.1/17

Left In: 1736.955+/-0.349 χ^2/NDF : 1885.8/14

Left: 1735.950+/-0.245 χ^2/NDF : 2613.8/30

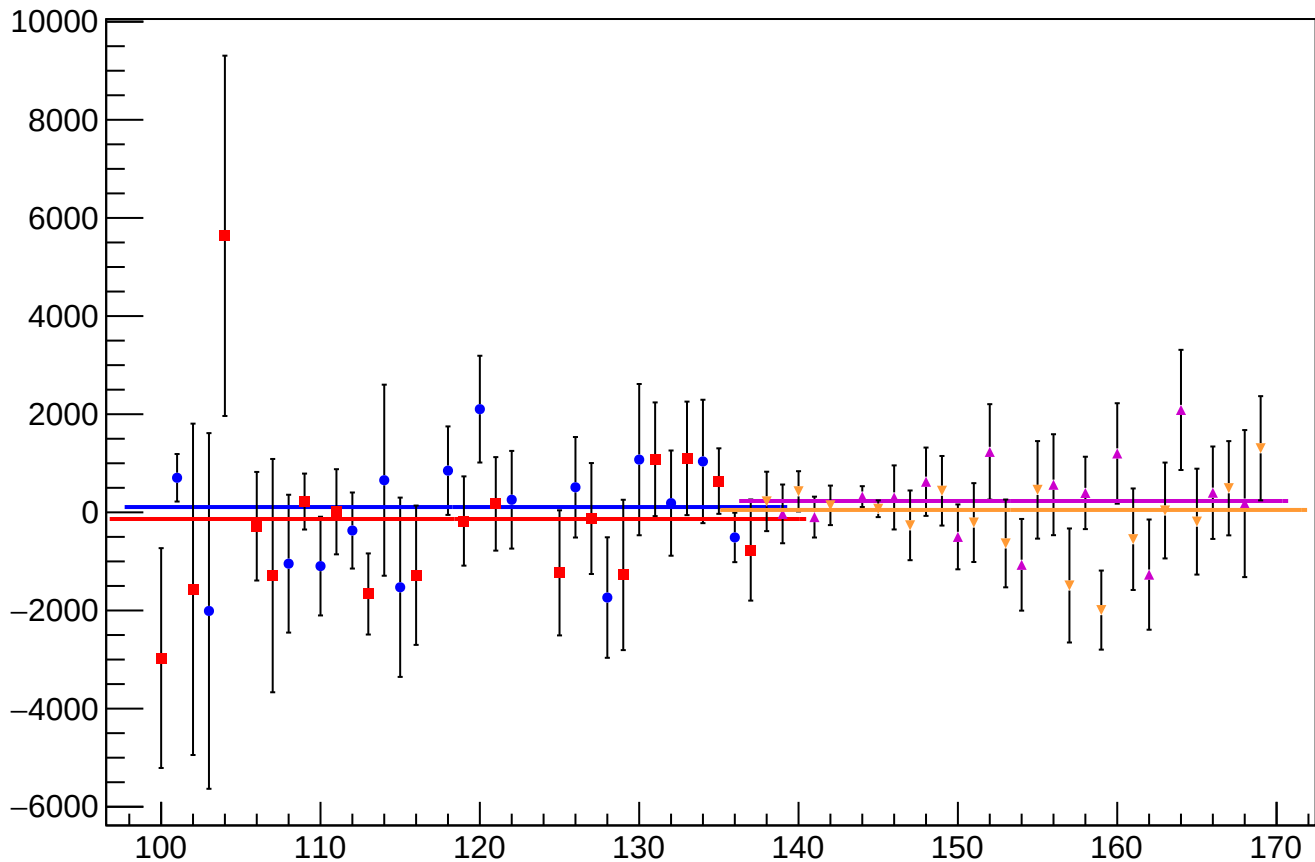
Right: 1903.077+/-0.361 χ^2/NDF : 1043955.3/33

In: 1785.081+/-0.287 χ^2/NDF : 750867.4/30

Out: 1792.338+/-0.286 χ^2/NDF : 441972.9/33

All: 1788.723+/-0.203 χ^2/NDF : 1193160.1/64

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 108.131+/-231.711 χ^2/NDF : 14.2/15

Left Out: 48.922+/-124.820 χ^2/NDF : 12.5/15

Right Out: -135.358+/-245.933 χ^2/NDF : 14.4/17

Left In: 231.319+/-146.770 χ^2/NDF : 10.7/14

Left: 125.474+/-95.084 χ^2/NDF : 24.1/30

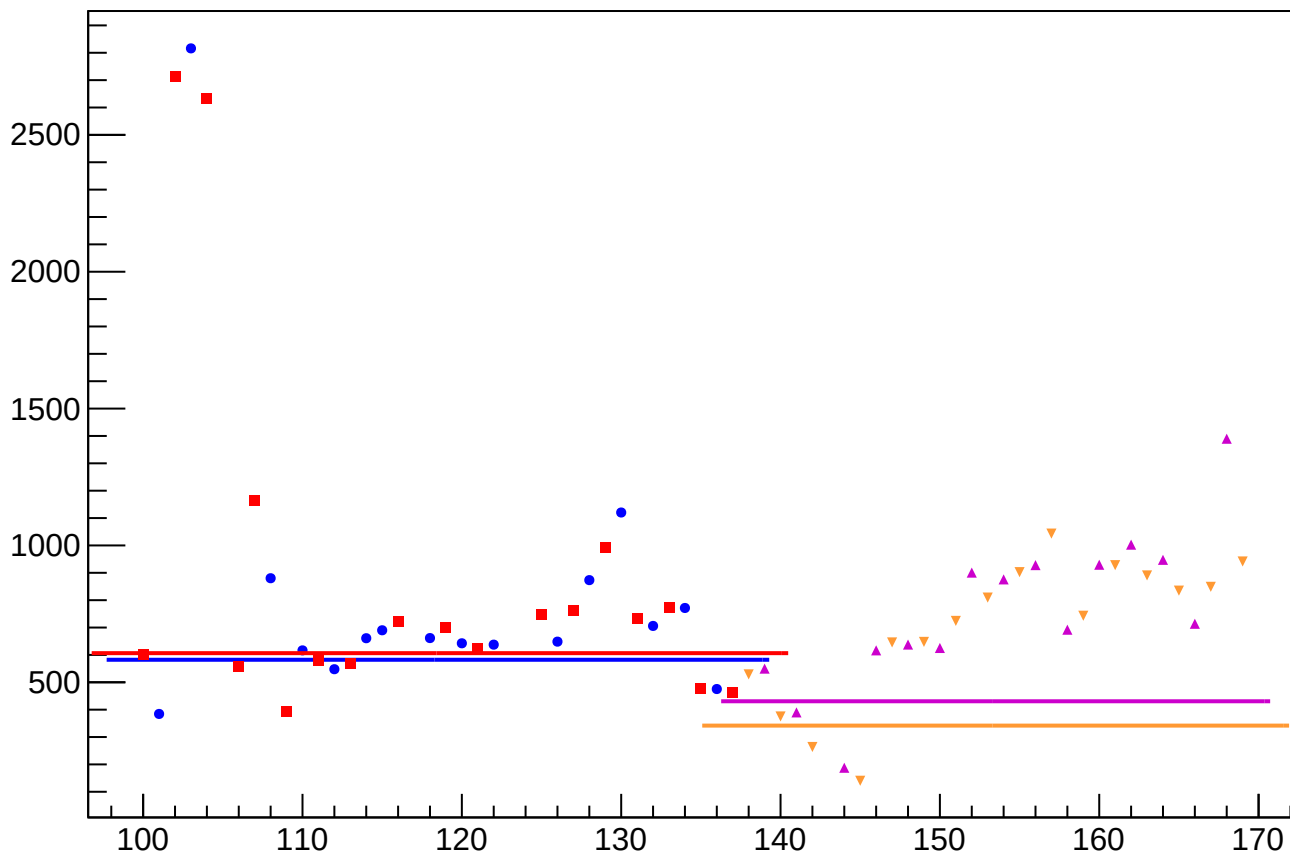
Right: -6.369+/-168.648 χ^2/NDF : 29.0/33

In: 196.046+/-123.990 χ^2/NDF : 25.1/30

Out: 11.176+/-111.305 χ^2/NDF : 27.3/33

All: 93.673+/-82.827 χ^2/NDF : 53.6/64

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 582.270+/-0.164 χ^2/NDF : 1754301.3/15

Left Out: 341.742+/-0.088 χ^2/NDF : 9565351.4/15

Right Out: 606.451+/-0.174 χ^2/NDF : 2198399.5/17

Left In: 430.642+/-0.104 χ^2/NDF : 7221155.0/14

Left: 379.054+/-0.067 χ^2/NDF : 17212301.7/30

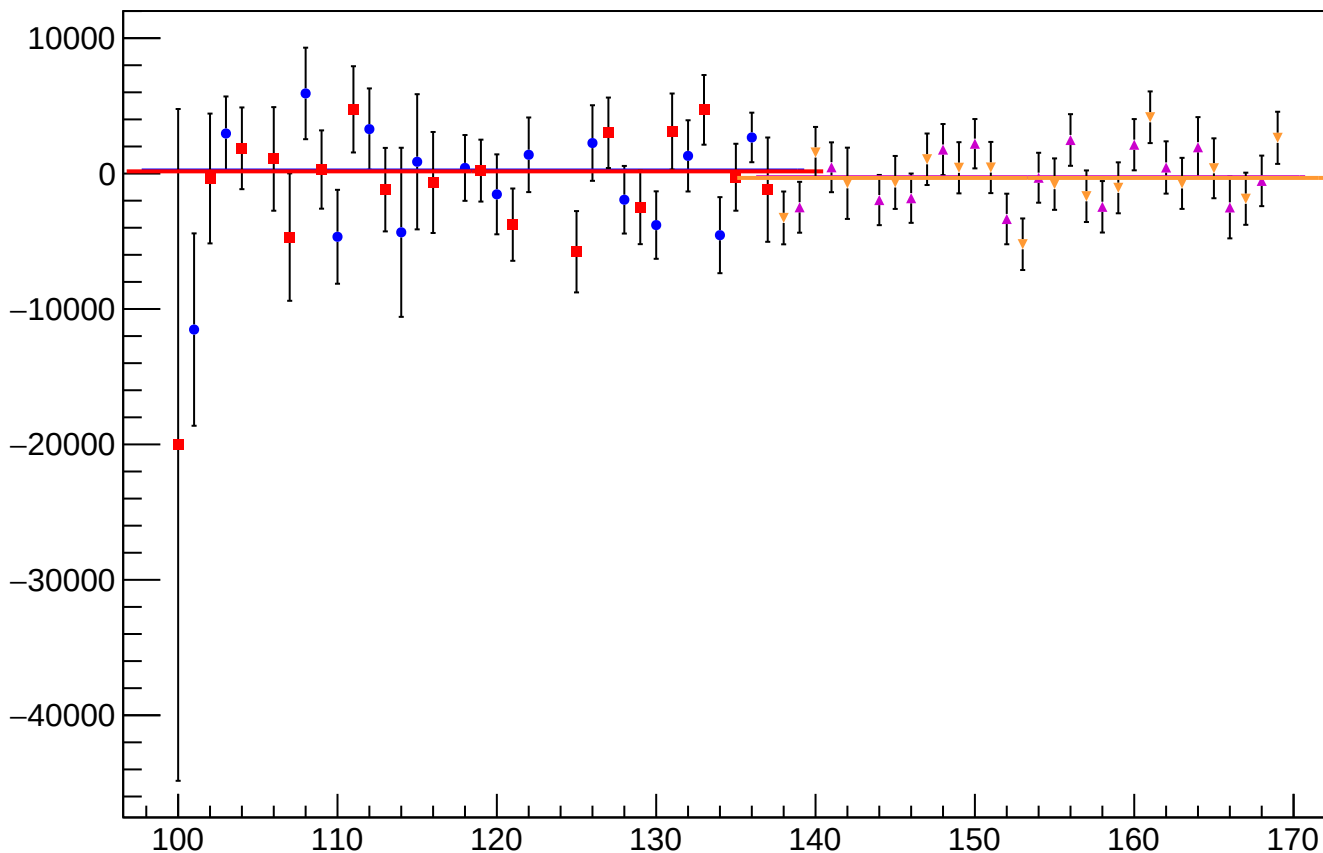
Right: 593.641+/-0.119 χ^2/NDF : 3962943.2/33

In: 474.059+/-0.088 χ^2/NDF : 9586667.9/30

Out: 395.963+/-0.079 χ^2/NDF : 13606178.9/33

All: 430.813+/-0.059 χ^2/NDF : 23632220.4/64

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 226.227 $\pm$ 718.556 χ^2 /NDF: 19.4/15

Left Out: -320.707 $\pm$ 488.163 χ^2 /NDF:20.2/15

Right Out: 163.711 $\pm$ 725.798 χ^2 /NDF: 17.0/17

Left In: -266.500 $\pm$ 493.019 χ^2 /NDF:16.0/14

Left: -293.872 $\pm$ 346.888 χ^2 /NDF: 36.1/30

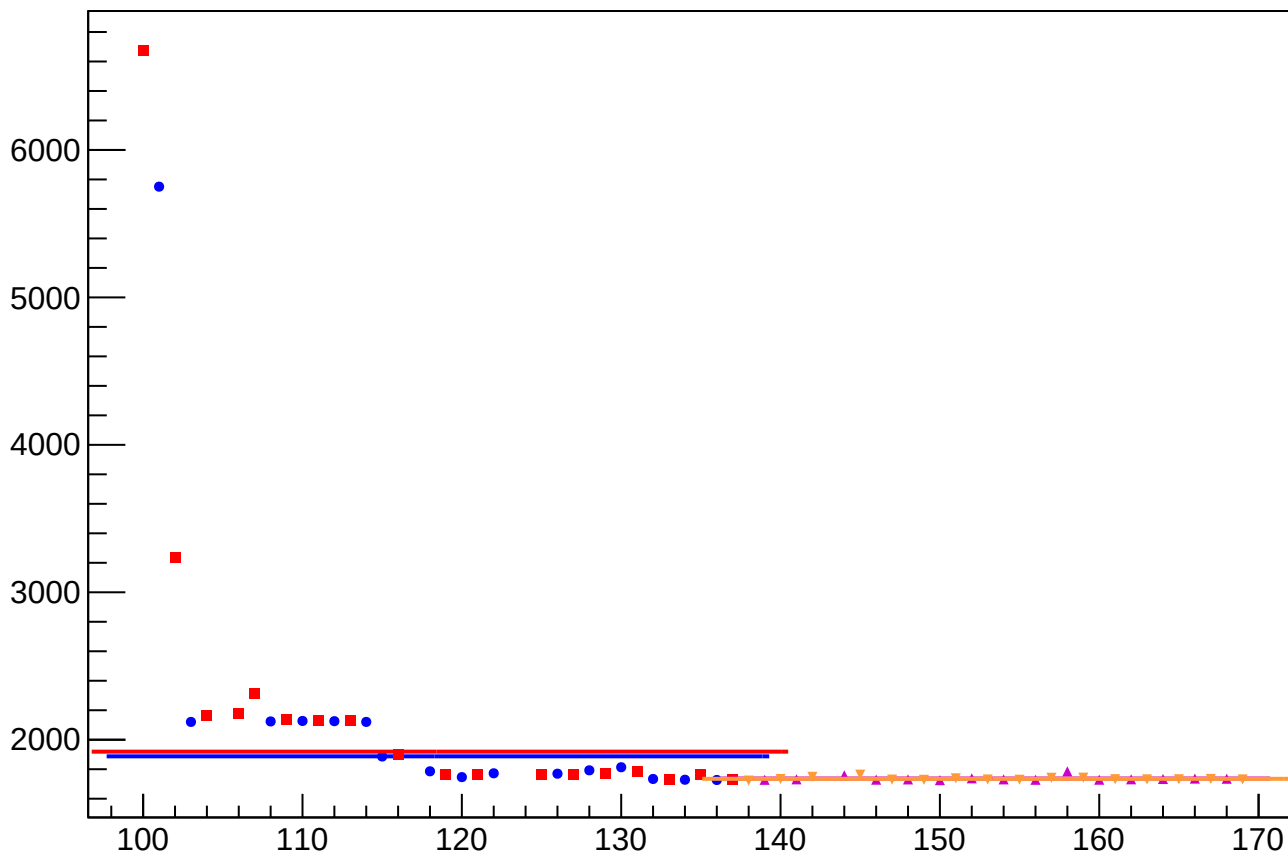
Right: 195.283 $\pm$ 510.637 χ^2 /NDF: 36.4/33

In: -108.787 $\pm$ 406.529 χ^2 /NDF:35.7/30

Out: -169.824 $\pm$ 405.066 χ^2 /NDF:37.5/33

All: -139.415 $\pm$ 286.941 χ^2 /NDF: 73.2/64

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1887.310+/-0.508 χ^2/NDF : 689442.4/15

Left Out: 1734.965+/-0.345 χ^2/NDF : 711.6/15

Right Out: 1919.164+/-0.513 χ^2/NDF : 352566.4/17

Left In: 1736.955+/-0.349 χ^2/NDF : 1885.7/14

Left: 1735.950+/-0.245 χ^2/NDF : 2613.8/30

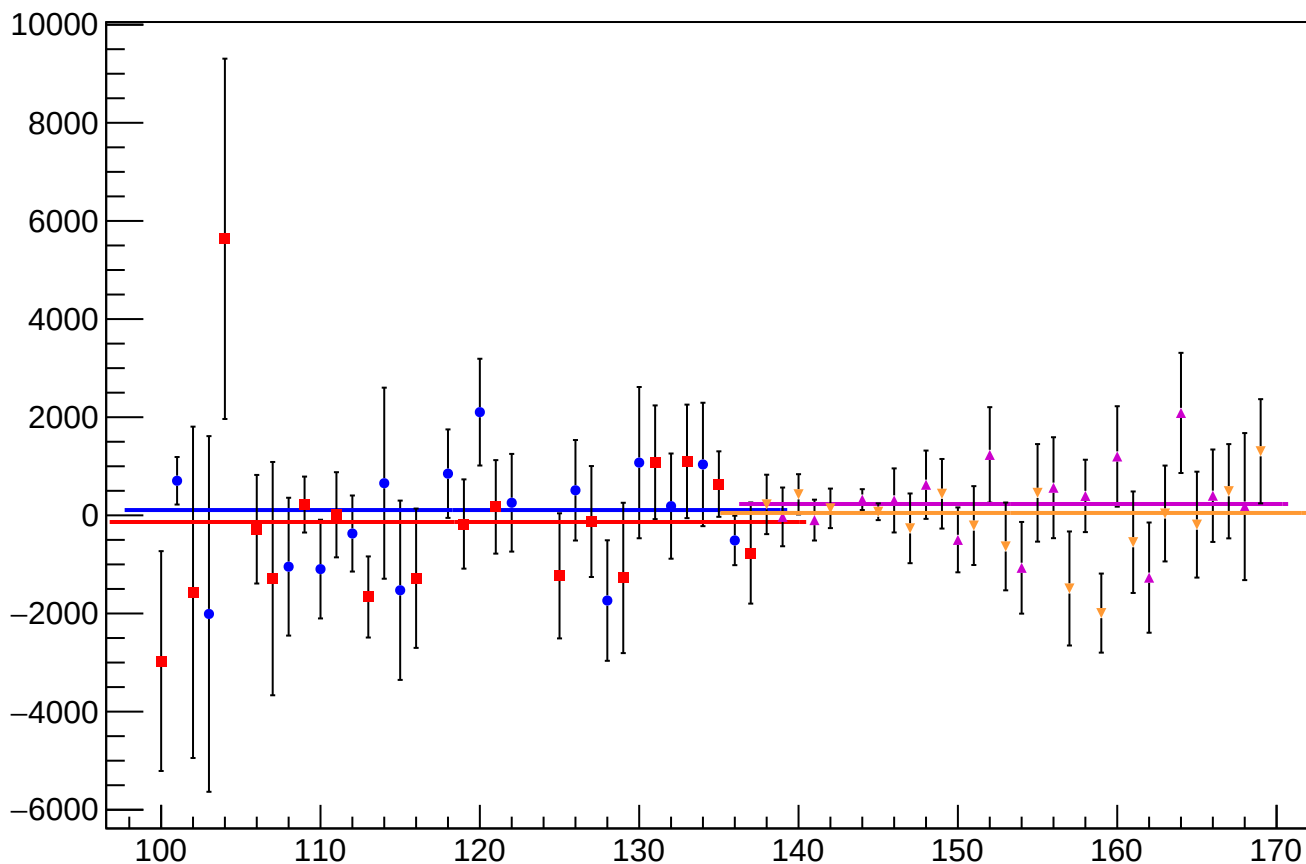
Right: 1903.077+/-0.361 χ^2/NDF : 1043954.3/33

In: 1785.081+/-0.287 χ^2/NDF : 750867.0/30

Out: 1792.338+/-0.286 χ^2/NDF : 441972.0/33

All: 1788.723+/-0.203 χ^2/NDF : 1193158.9/64

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 108.128 $\pm$ 231.710 χ^2 /NDF: 14.2/15

Left Out: 48.920 $\pm$ 124.820 χ^2 /NDF:12.5/15

Right Out: -135.356 $\pm$ 245.932 χ^2 /NDF: 14.4/17

Left In: 231.319 $\pm$ 146.771 χ^2 /NDF:10.7/14

Left: 125.473 $\pm$ 95.085 χ^2 /NDF: 24.1/30

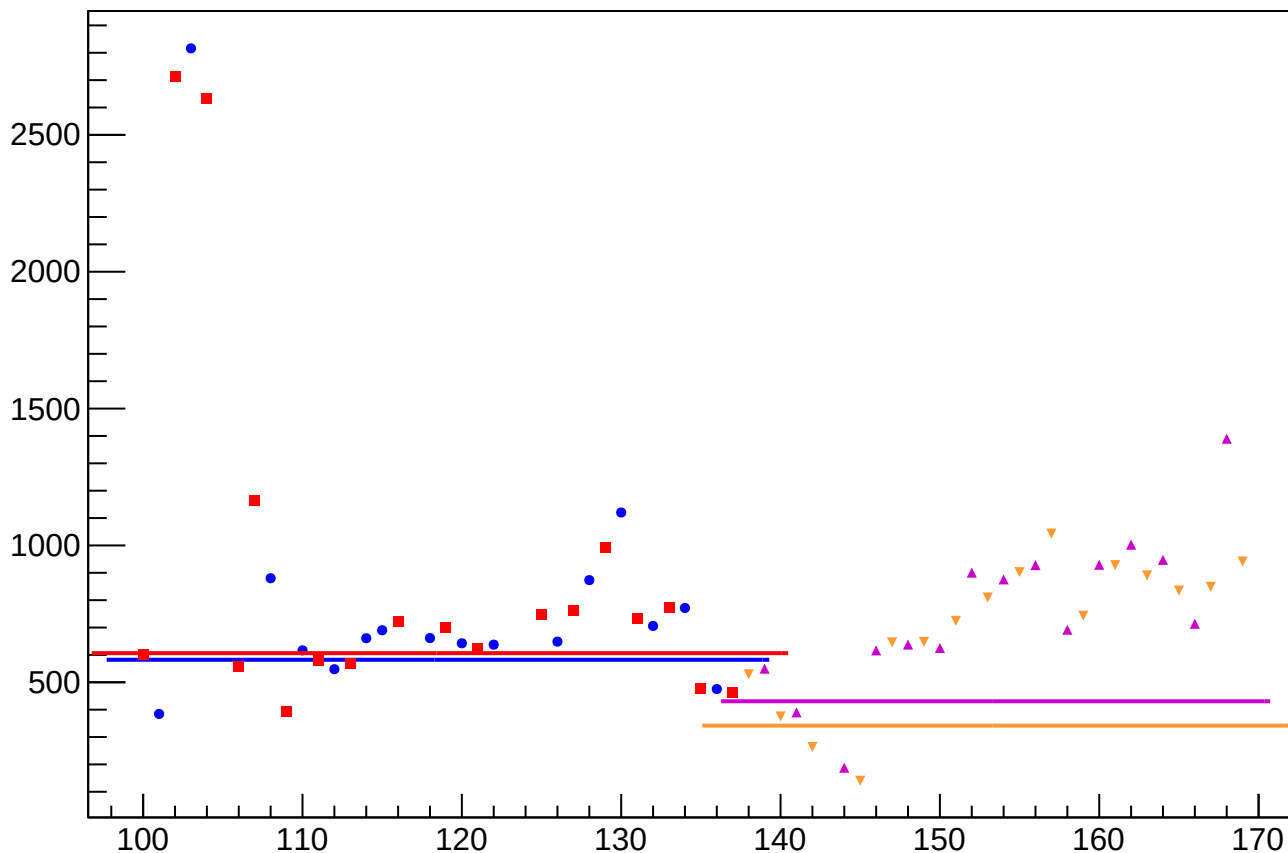
Right: -6.371 $\pm$ 168.647 χ^2 /NDF: 29.0/33

In: 196.045 $\pm$ 123.990 χ^2 /NDF:25.1/30

Out: 11.174 $\pm$ 111.305 χ^2 /NDF:27.3/33

All: 93.672 $\pm$ 82.827 χ^2 /NDF: 53.6/64

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 582.268+/-0.164 χ^2/NDF : 1754289.3/15

Left Out: 341.742+/-0.088 χ^2/NDF : 9565383.8/15

Right Out: 606.447+/-0.174 χ^2/NDF : 2198414.3/17

Left In: 430.642+/-0.104 χ^2/NDF : 7221174.1/14

Left: 379.054+/-0.067 χ^2/NDF : 17212357.5/30

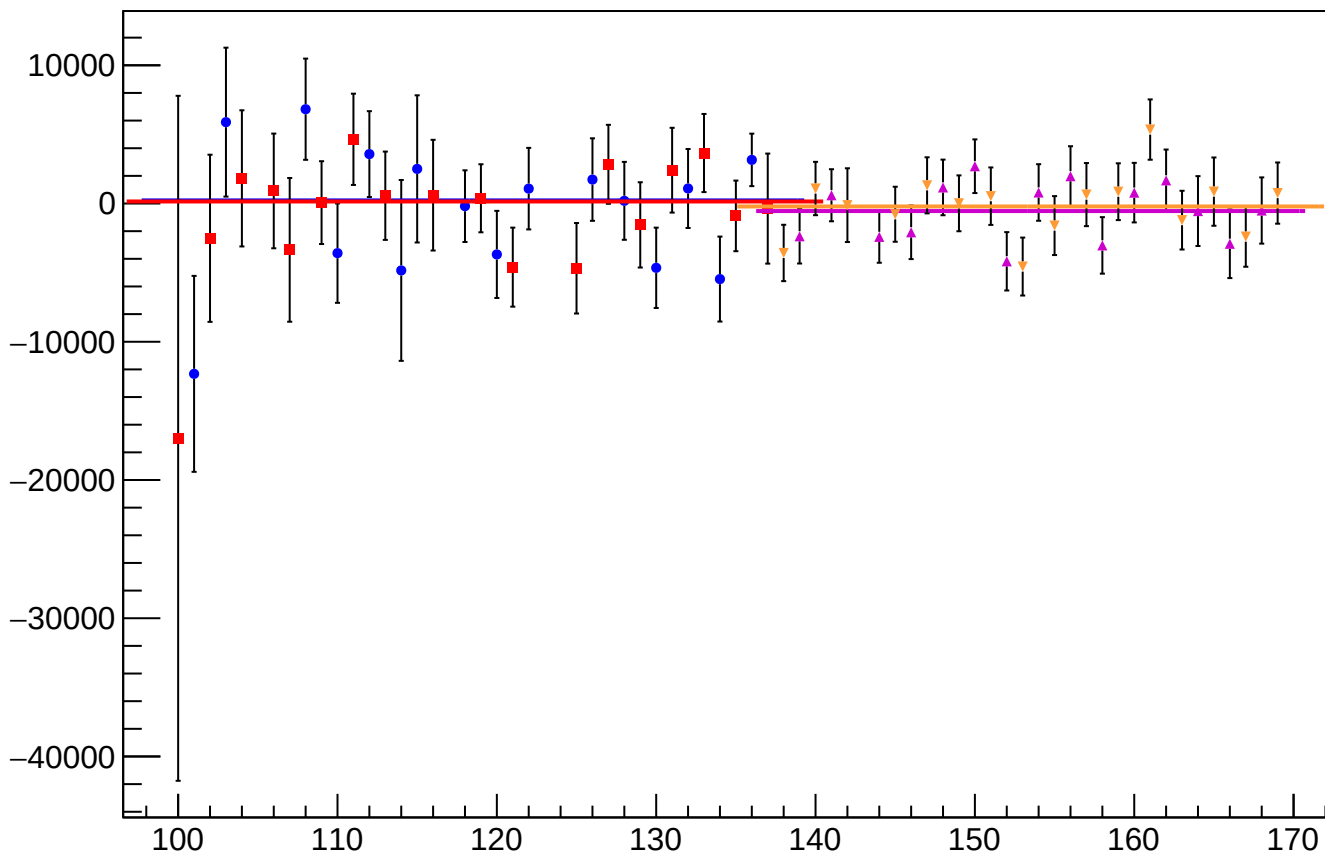
Right: 593.638+/-0.119 χ^2/NDF : 3962944.4/33

In: 474.059+/-0.088 χ^2/NDF : 9586658.8/30

Out: 395.962+/-0.079 χ^2/NDF : 13606190.2/33

All: 430.813+/-0.059 χ^2/NDF : 23632227.8/64

asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected



Right In: 224.521+/-791.678 χ^2/NDF : 21.2/15

Left Out: -212.922+/-533.887 χ^2/NDF :17.2/15

Right Out: 147.974+/-794.180 χ^2/NDF : 11.6/17

Left In: -544.929+/-540.064 χ^2/NDF :14.9/14

Left: -377.016+/-379.680 χ^2/NDF : 32.3/30

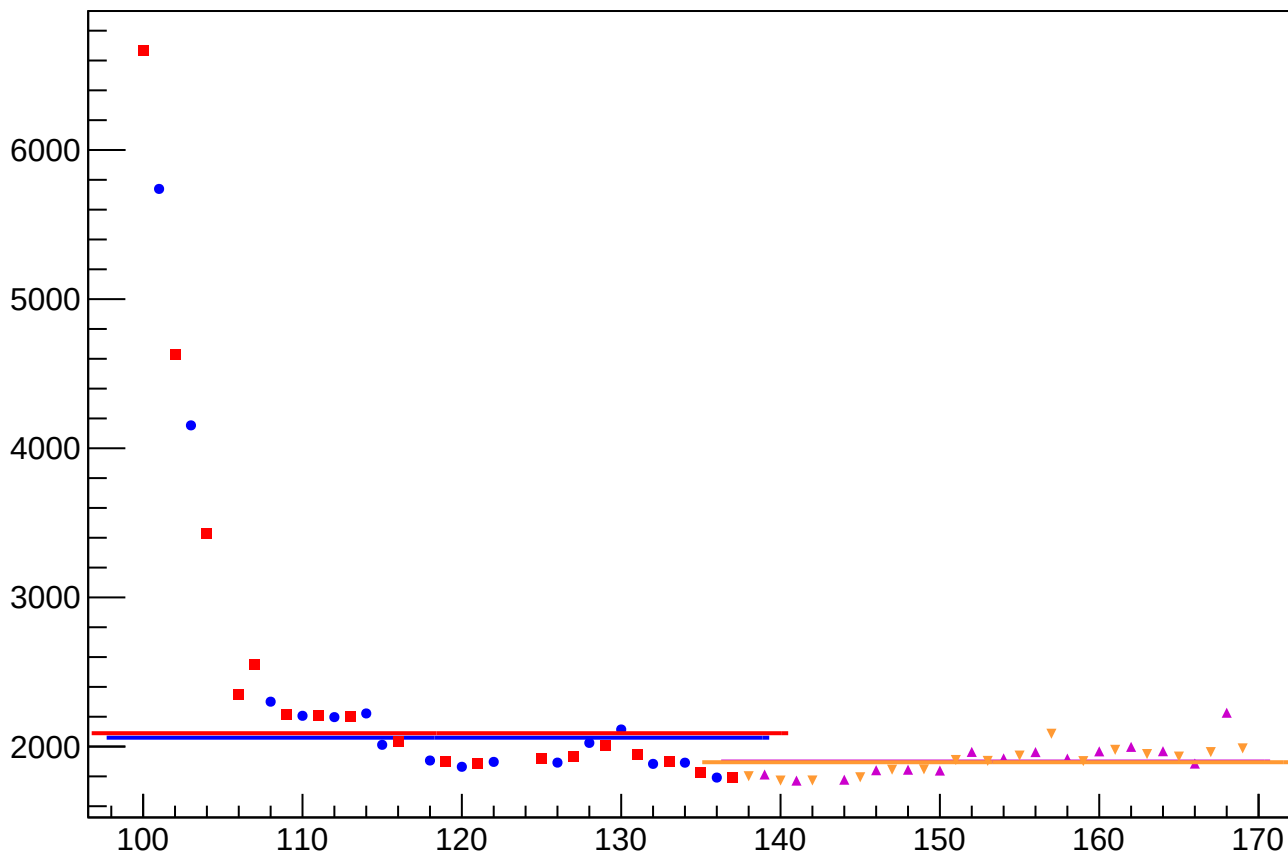
Right: 186.369+/-560.683 χ^2/NDF : 32.7/33

In: -300.570+/-446.141 χ^2/NDF :36.7/30

Out: -100.591+/-443.076 χ^2/NDF :28.9/33

All: -199.891+/-314.380 χ^2/NDF : 65.7/64

asym_us_avg_at1lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 2059.496 $\pm$ 0.560 χ^2 /NDF: 939873.6/15

Left Out: 1894.995 $\pm$ 0.378 χ^2 /NDF: 49236.2/15

Right Out: 2089.476 $\pm$ 0.562 χ^2 /NDF: 681465.8/17

Left In: 1899.608 $\pm$ 0.382 χ^2 /NDF: 75584.2/14

Left: 1897.275 $\pm$ 0.268 χ^2 /NDF: 124894.2/30

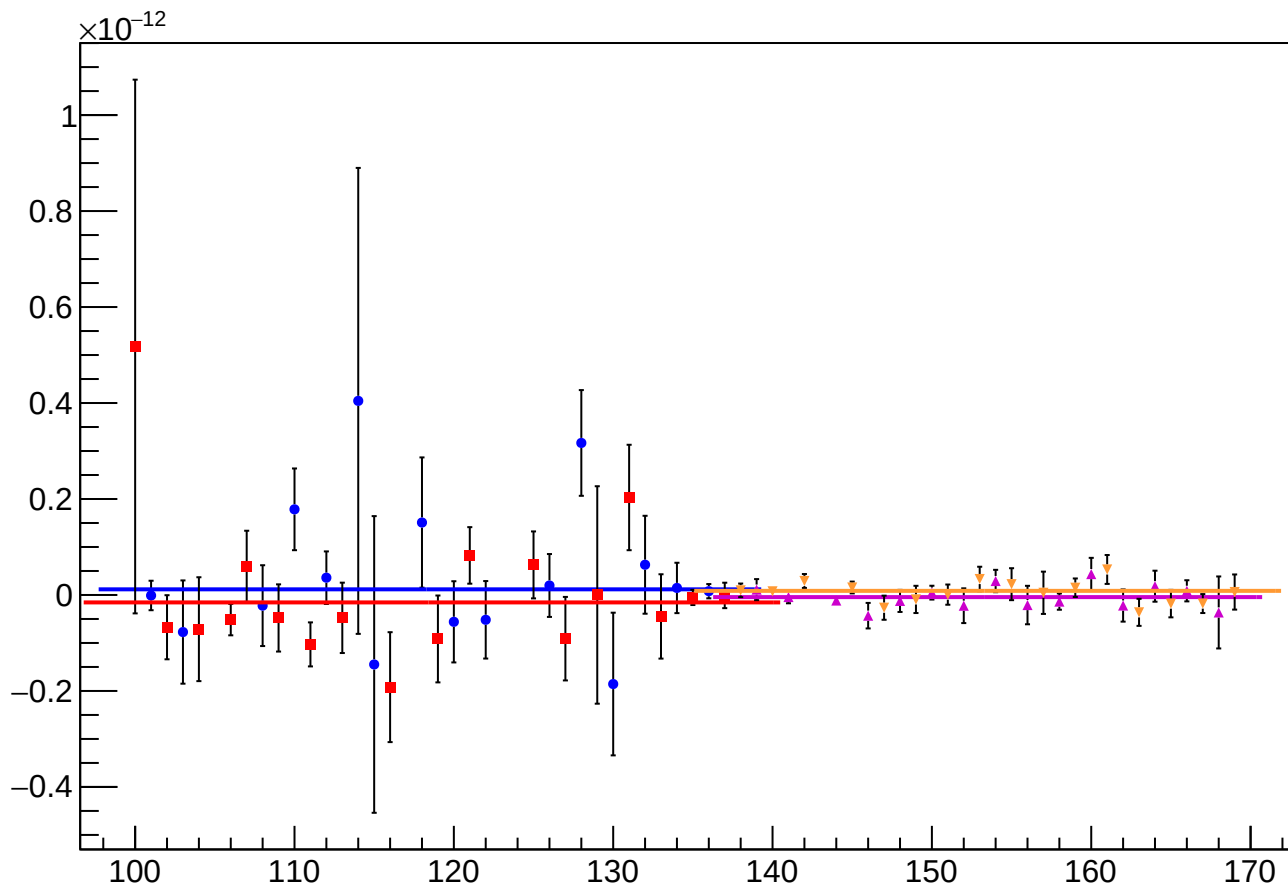
Right: 2074.439 $\pm$ 0.396 χ^2 /NDF: 1622768.9/33

In: 1950.385 $\pm$ 0.315 χ^2 /NDF: 1071127.2/30

Out: 1955.529 $\pm$ 0.313 χ^2 /NDF: 813307.3/33

All: 1952.975 $\pm$ 0.222 χ^2 /NDF: 1884568.4/64

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 18.0/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 13.5/15$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 20.7/17$

Left In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 9.9/14$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 26.9/30$

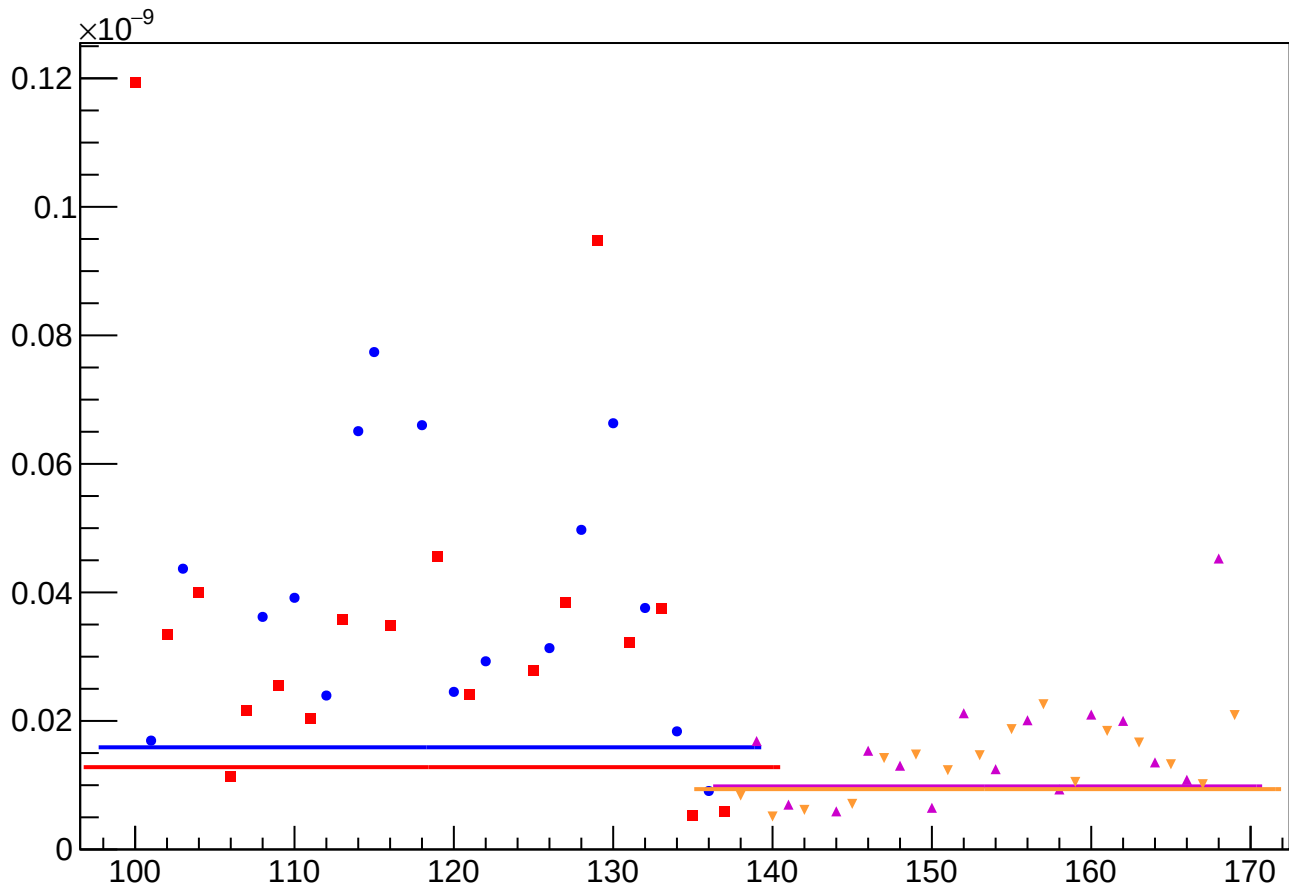
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 41.8/33$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 29.5/30$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 38.4/33$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 69.0/64$

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1935582.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1735321.4/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2486058.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 2125484.2/14

Left: 0.000+/-0.000 χ^2/NDF : 3868395.3/30

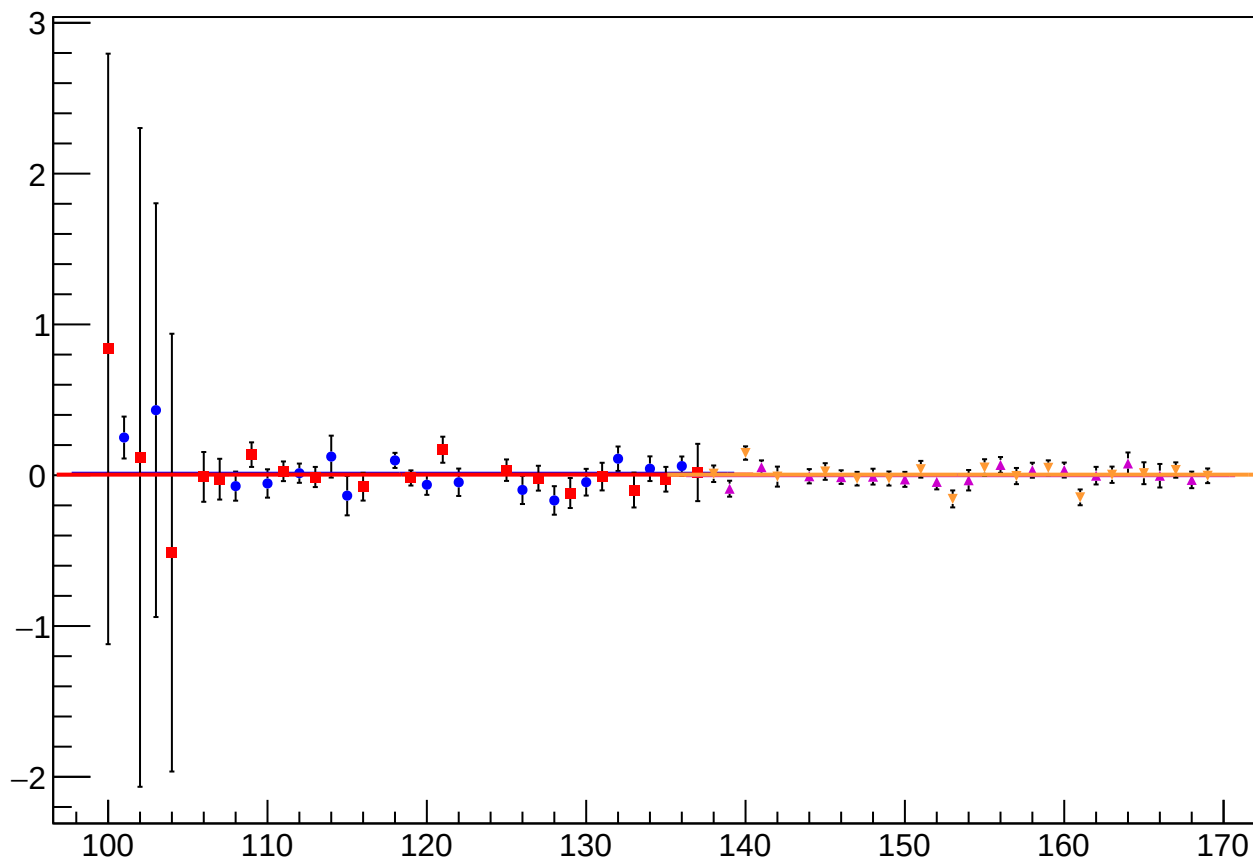
Right: 0.000+/-0.000 χ^2/NDF : 4498662.7/33

In: 0.000+/-0.000 χ^2/NDF : 4525551.8/30

Out: 0.000+/-0.000 χ^2/NDF : 4393036.2/33

All: 0.000+/-0.000 χ^2/NDF : 8953421.4/64

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.021 χ^2 /NDF: 18.4/15

Left Out: 0.004 $\pm$ 0.013 χ^2 /NDF:30.0/15

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: 0.000 $\pm$ 0.014 χ^2 /NDF:9.8/14

Left: 0.002 $\pm$ 0.009 χ^2 /NDF: 39.9/30

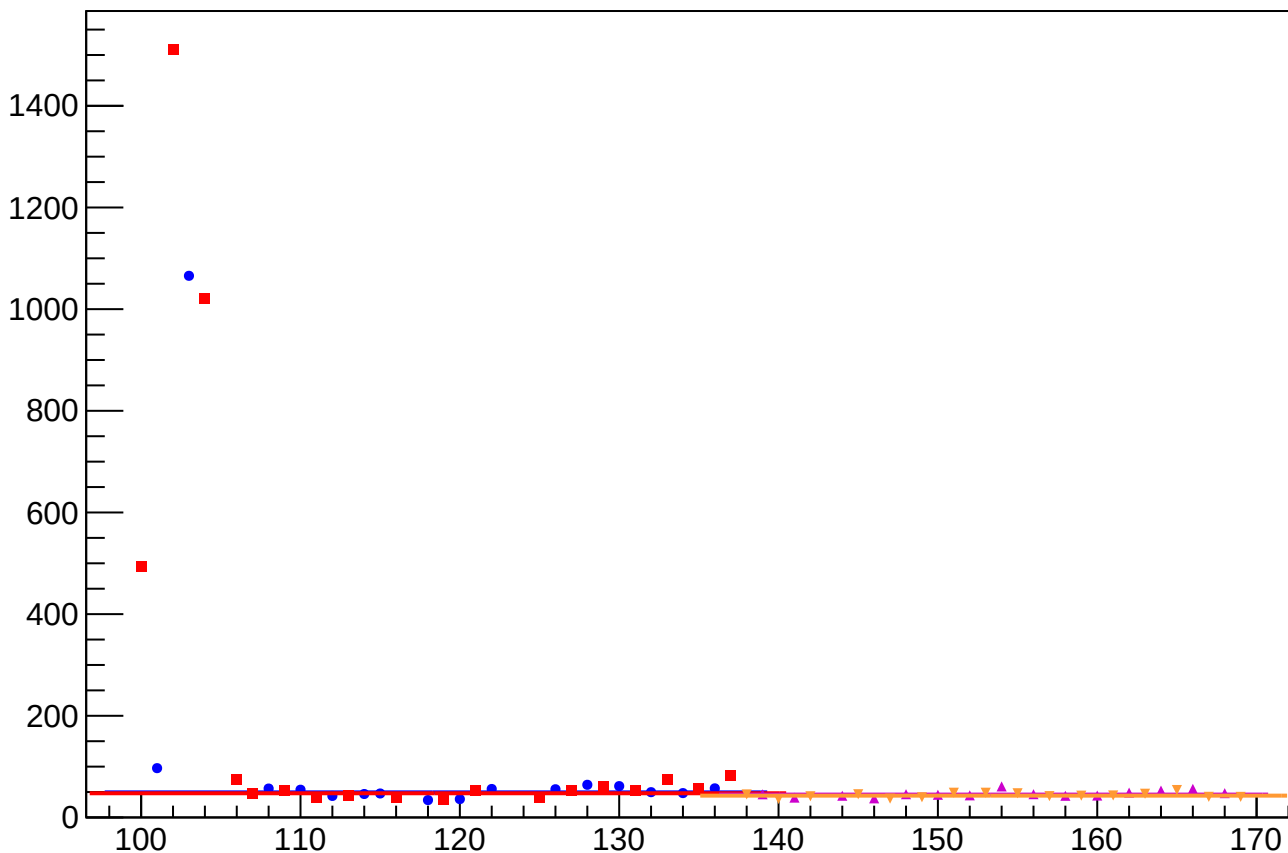
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: 0.003 $\pm$ 0.011 χ^2 /NDF:28.4/30

Out: 0.004 $\pm$ 0.011 χ^2 /NDF:40.5/33

All: 0.003 $\pm$ 0.008 χ^2 /NDF: 68.9/64

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 49.333+/-0.015 χ^2/NDF : 1776998.3/15

Left Out: 42.924+/-0.009 χ^2/NDF : 217734.2/15

Right Out: 47.599+/-0.015 χ^2/NDF : 2418219.3/17

Left In: 44.961+/-0.010 χ^2/NDF : 294711.2/14

Left: 43.902+/-0.007 χ^2/NDF : 535411.8/30

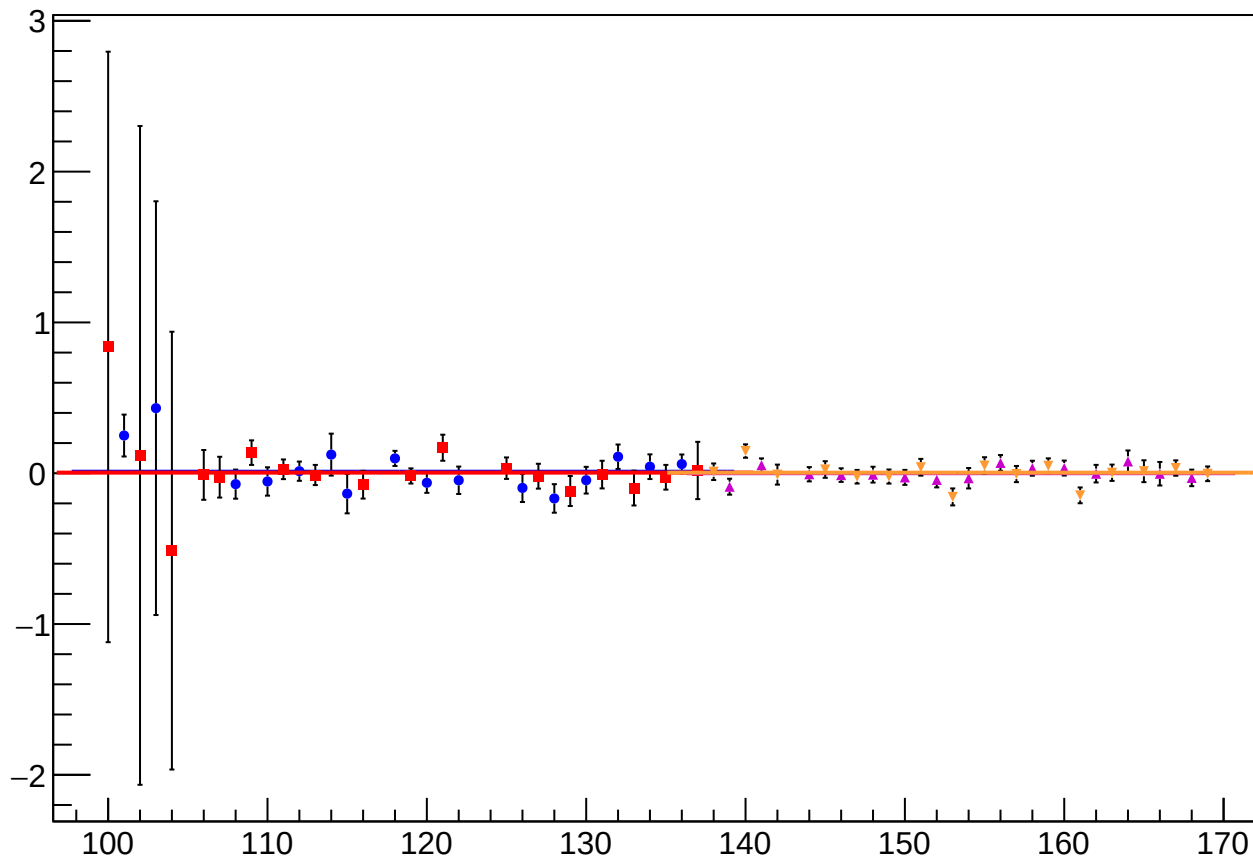
Right: 48.487+/-0.011 χ^2/NDF : 4201890.6/33

In: 46.270+/-0.008 χ^2/NDF : 2132698.6/30

Out: 44.200+/-0.008 χ^2/NDF : 2704766.7/33

All: 45.213+/-0.006 χ^2/NDF : 4870728.1/64

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.021 χ^2 /NDF: 18.4/15

Left Out: 0.004 $\pm$ 0.013 χ^2 /NDF:30.0/15

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: 0.000 $\pm$ 0.014 χ^2 /NDF:9.8/14

Left: 0.002 $\pm$ 0.009 χ^2 /NDF: 39.9/30

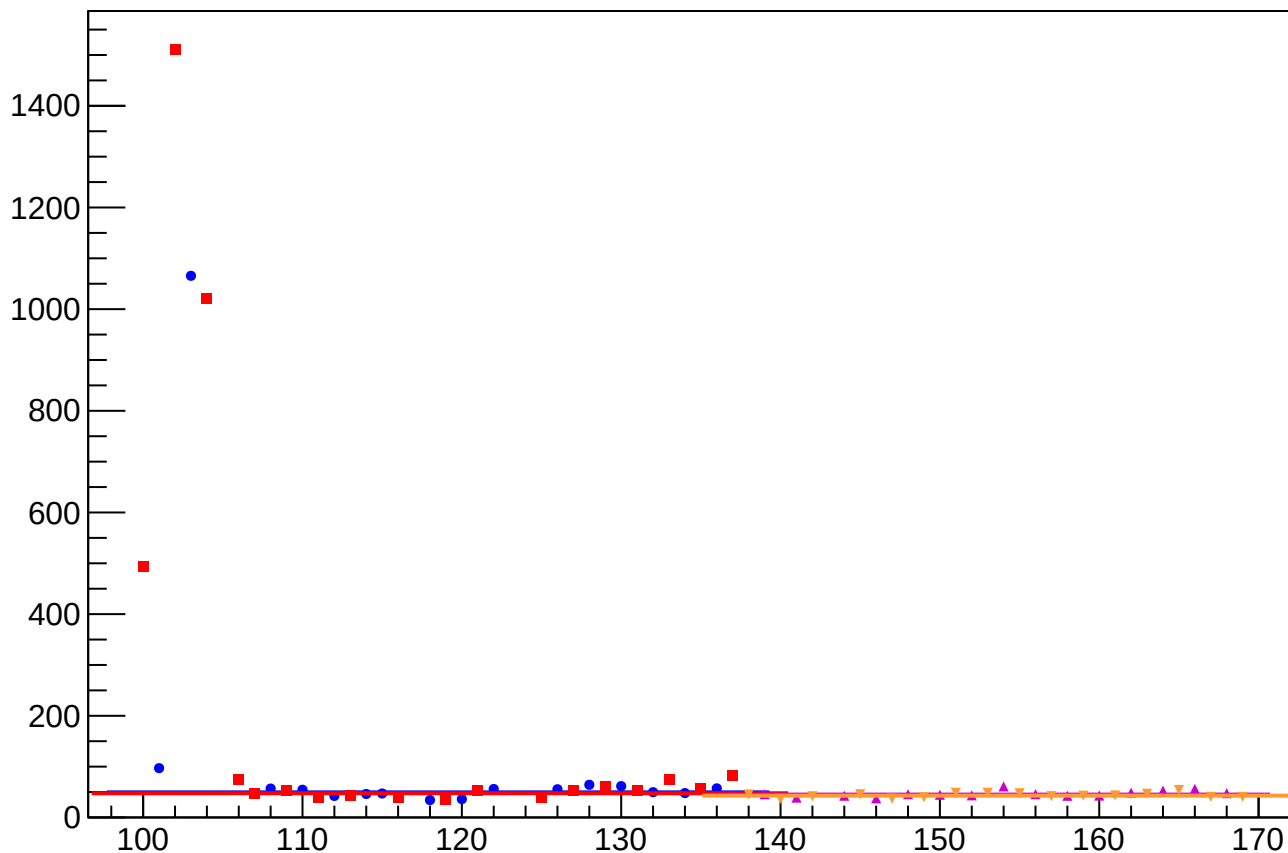
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: 0.003 $\pm$ 0.011 χ^2 /NDF:28.4/30

Out: 0.004 $\pm$ 0.011 χ^2 /NDF:40.5/33

All: 0.003 $\pm$ 0.008 χ^2 /NDF: 68.9/64

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 49.333+/-0.015 χ^2/NDF : 1776998.3/15

Left Out: 42.924+/-0.009 χ^2/NDF : 217734.2/15

Right Out: 47.599+/-0.015 χ^2/NDF : 2418219.3/17

Left In: 44.961+/-0.010 χ^2/NDF : 294711.2/14

Left: 43.902+/-0.007 χ^2/NDF : 535411.8/30

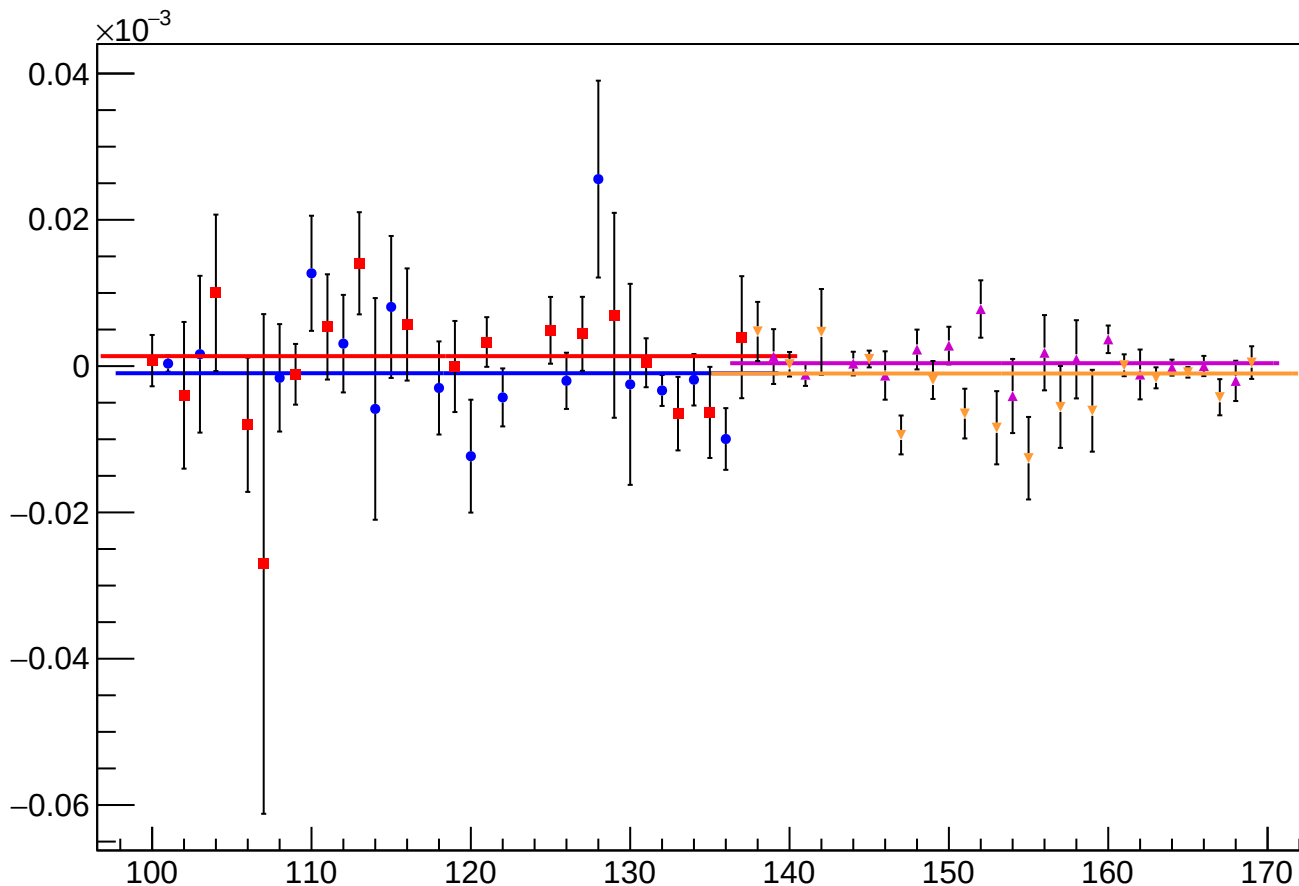
Right: 48.487+/-0.011 χ^2/NDF : 4201890.6/33

In: 46.270+/-0.008 χ^2/NDF : 2132698.6/30

Out: 44.200+/-0.008 χ^2/NDF : 2704766.7/33

All: 45.213+/-0.006 χ^2/NDF : 4870728.1/64

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 18.6/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:30.1/15

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 12.6/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:11.5/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 45.5/30

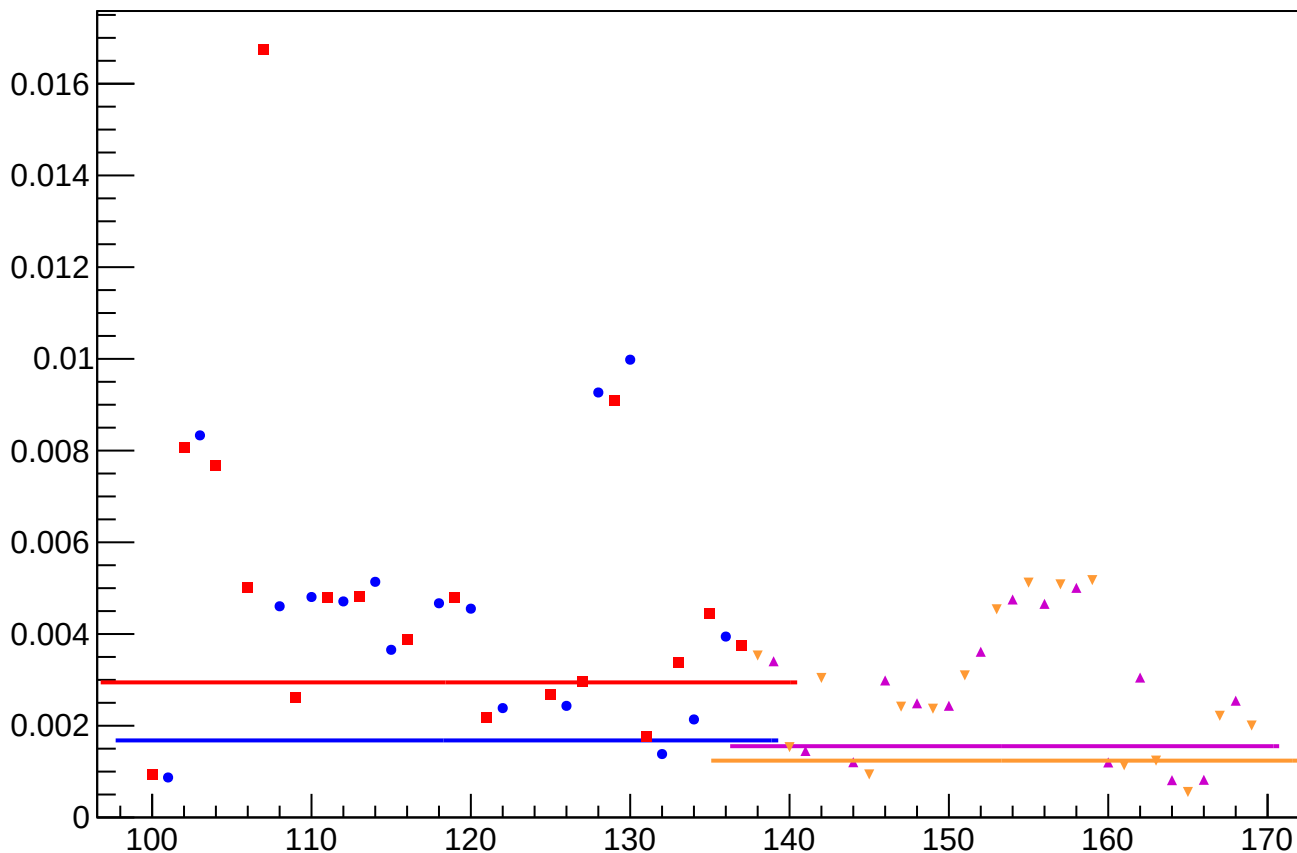
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 33.6/33

In: -0.000 $\pm$ 0.000 χ^2 /NDF:32.0/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:45.7/33

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 79.1/64

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5960235.0/15

Left Out: 0.001+/-0.000 χ^2/NDF : 8535507.9/15

Right Out: 0.003+/-0.000 χ^2/NDF : 3379848.5/17

Left In: 0.002+/-0.000 χ^2/NDF : 6542766.3/14

Left: 0.001+/-0.000 χ^2/NDF : 15471021.8/30

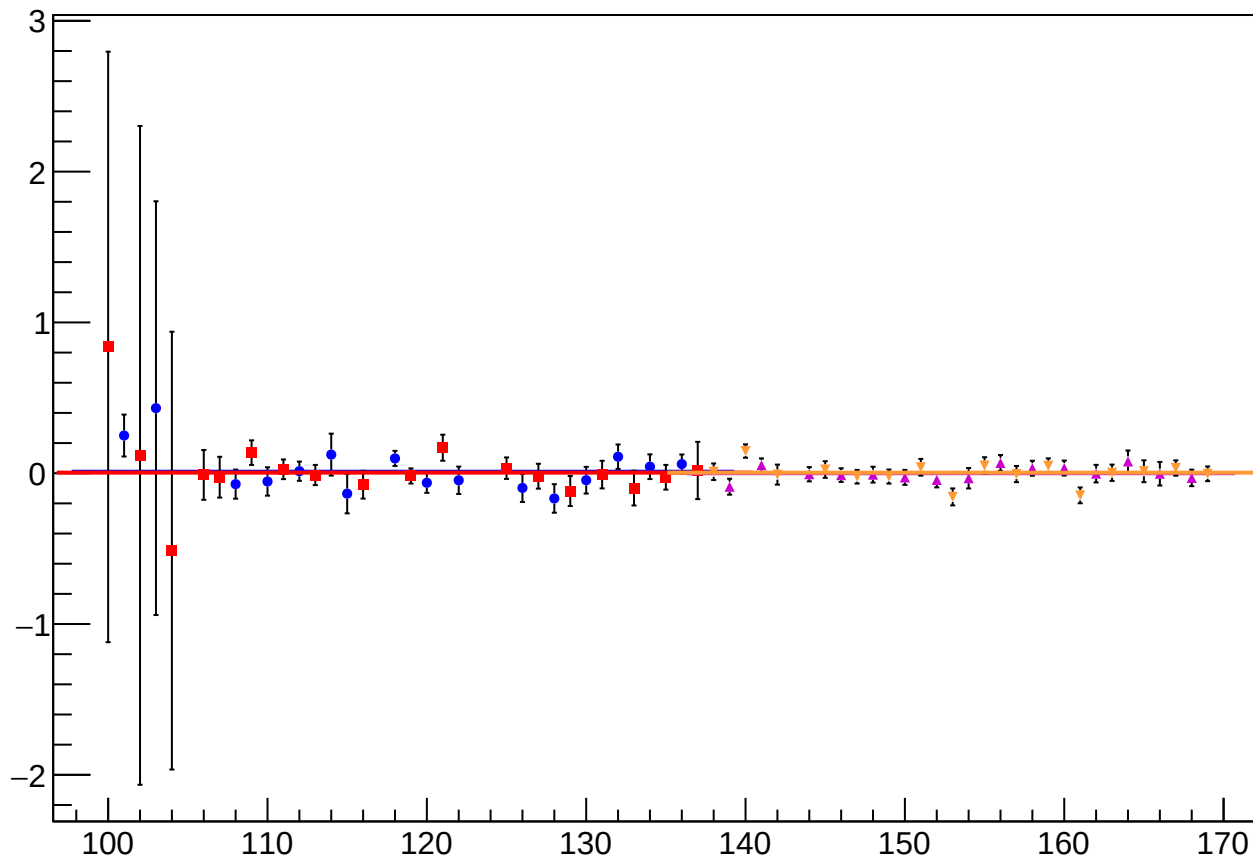
Right: 0.002+/-0.000 χ^2/NDF : 10702272.5/33

In: 0.002+/-0.000 χ^2/NDF : 12534780.0/30

Out: 0.001+/-0.000 χ^2/NDF : 15038502.4/33

All: 0.002+/-0.000 χ^2/NDF : 27720188.3/64

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.021 χ^2 /NDF: 18.4/15

Left Out: 0.004 $\pm$ 0.013 χ^2 /NDF:30.0/15

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: 0.000 $\pm$ 0.014 χ^2 /NDF:9.8/14

Left: 0.002 $\pm$ 0.009 χ^2 /NDF: 39.9/30

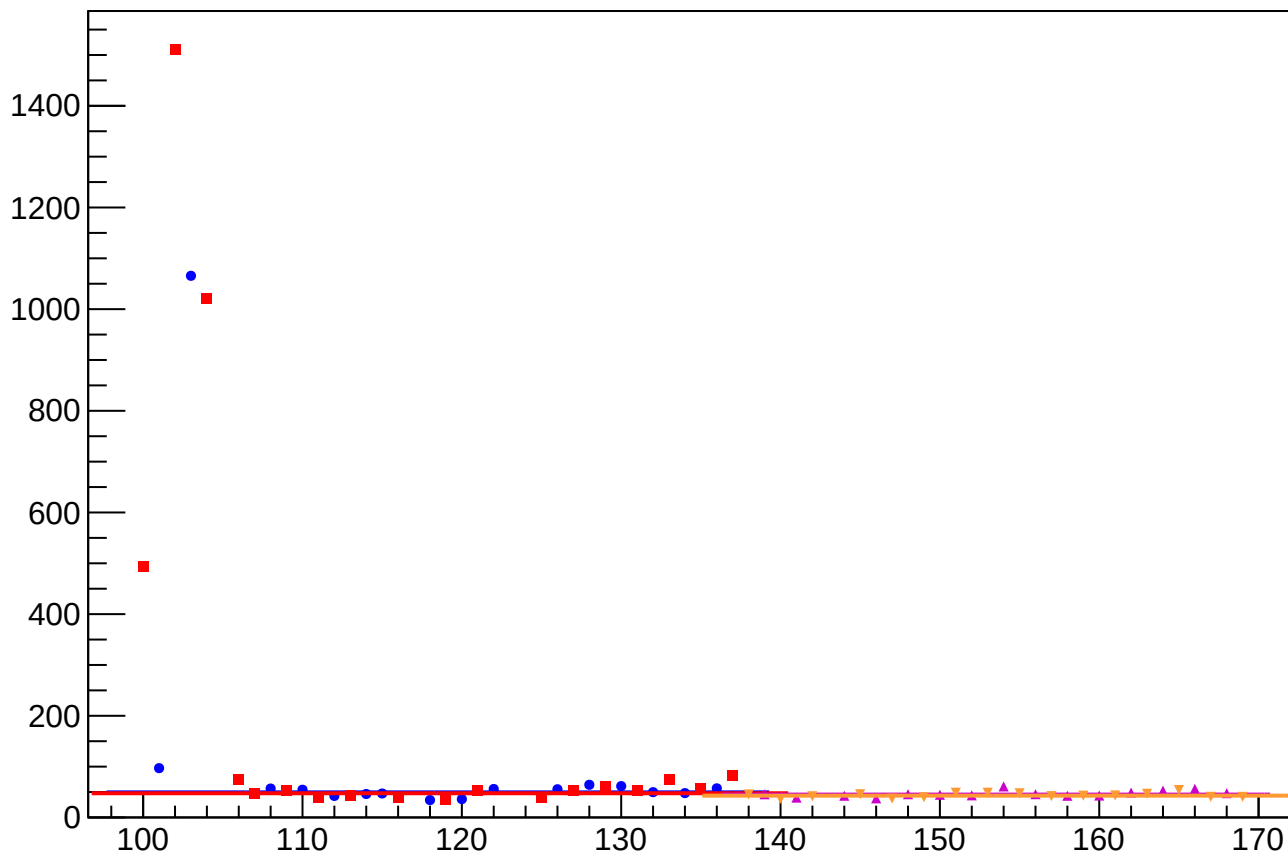
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: 0.003 $\pm$ 0.011 χ^2 /NDF:28.4/30

Out: 0.004 $\pm$ 0.011 χ^2 /NDF:40.5/33

All: 0.003 $\pm$ 0.008 χ^2 /NDF: 68.9/64

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 49.333+/-0.015 χ^2/NDF : 1776926.6/15

Left Out: 42.925+/-0.009 χ^2/NDF : 217752.3/15

Right Out: 47.598+/-0.015 χ^2/NDF : 2418253.9/17

Left In: 44.960+/-0.010 χ^2/NDF : 294771.8/14

Left: 43.902+/-0.007 χ^2/NDF : 535478.6/30

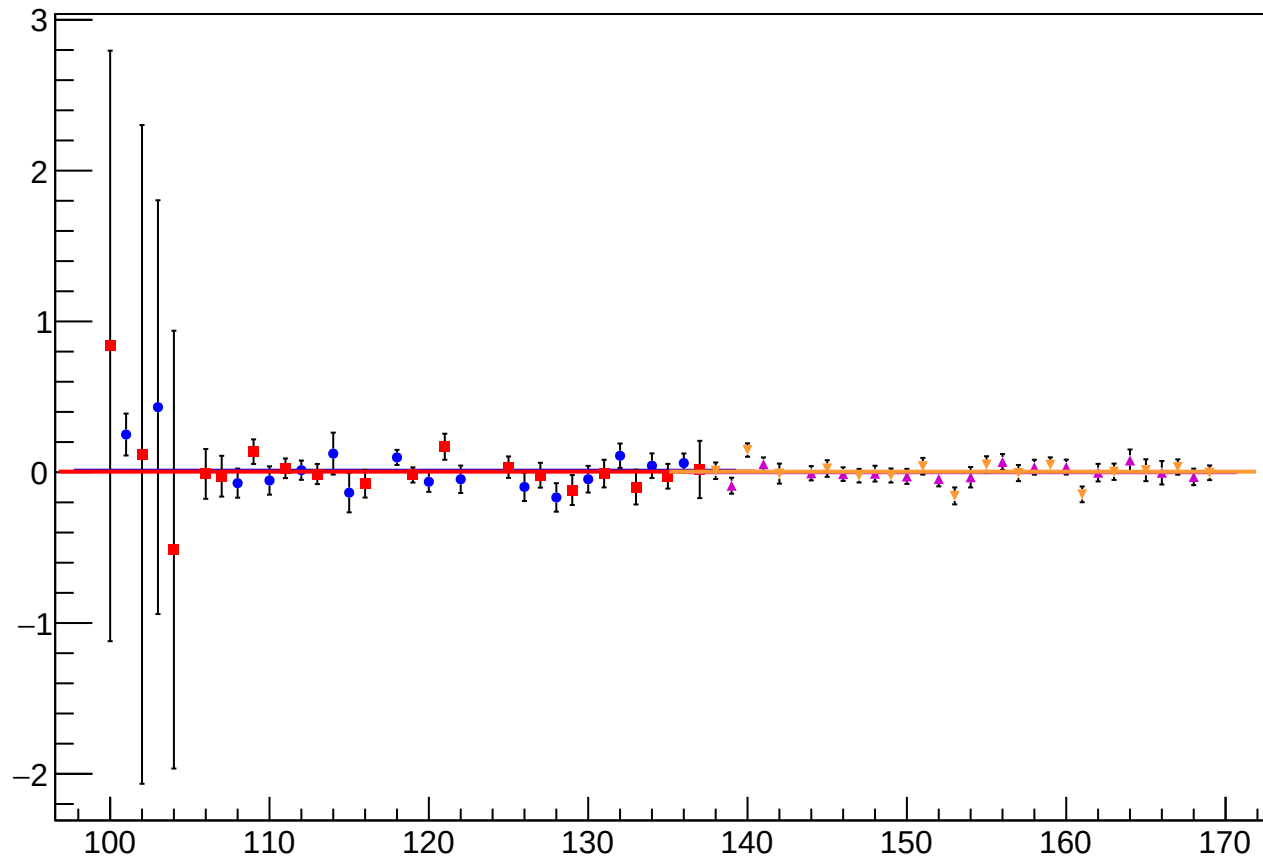
Right: 48.487+/-0.011 χ^2/NDF : 4201863.1/33

In: 46.270+/-0.008 χ^2/NDF : 2132706.7/30

Out: 44.200+/-0.008 χ^2/NDF : 2704789.1/33

All: 45.213+/-0.006 χ^2/NDF : 4870756.5/64

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.021 χ^2 /NDF: 18.4/15

Left Out: 0.004 $\pm$ 0.013 χ^2 /NDF:30.0/15

Right Out: 0.004 $\pm$ 0.021 χ^2 /NDF: 10.5/17

Left In: 0.000 $\pm$ 0.014 χ^2 /NDF:9.8/14

Left: 0.002 $\pm$ 0.009 χ^2 /NDF: 39.9/30

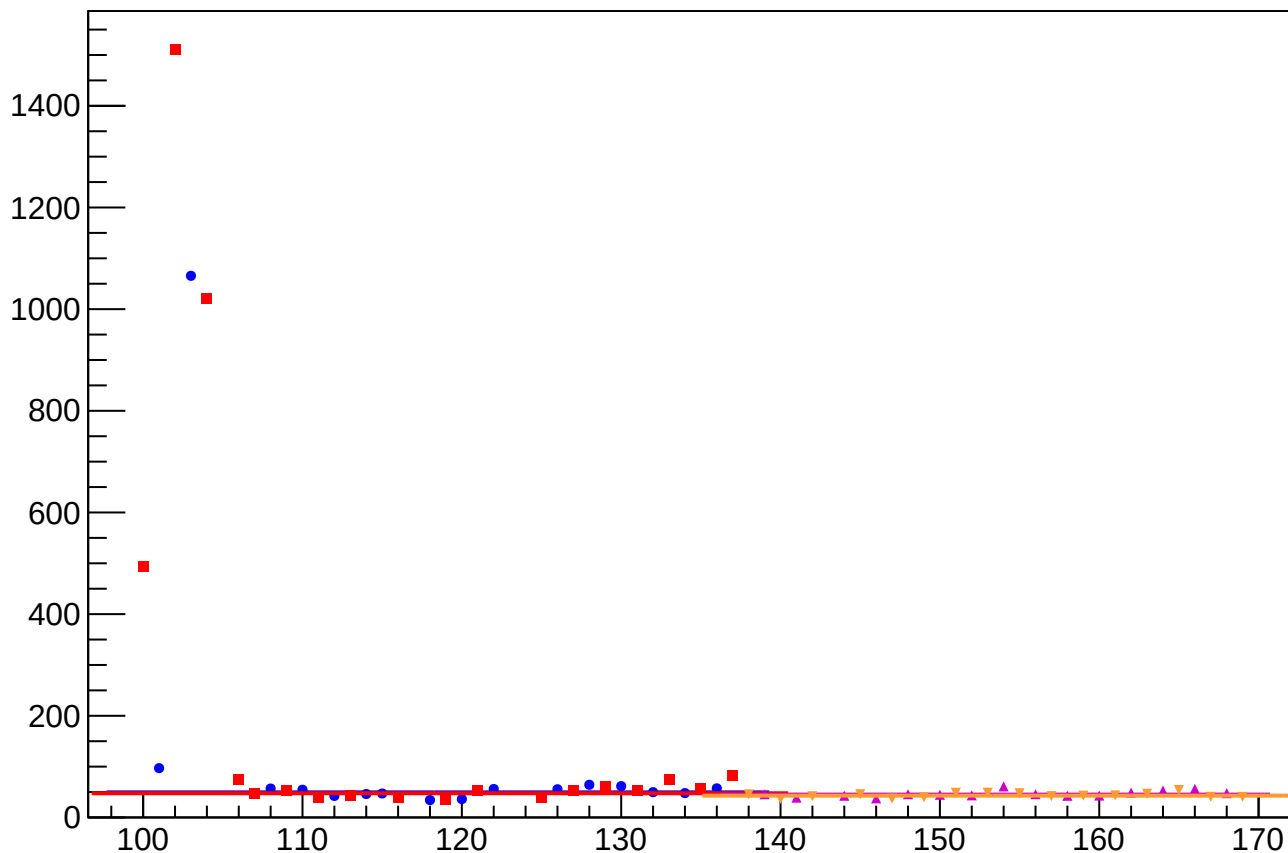
Right: 0.007 $\pm$ 0.015 χ^2 /NDF: 29.0/33

In: 0.003 $\pm$ 0.011 χ^2 /NDF:28.4/30

Out: 0.004 $\pm$ 0.011 χ^2 /NDF:40.5/33

All: 0.003 $\pm$ 0.008 χ^2 /NDF: 68.9/64

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 49.333+/-0.015 χ^2/NDF : 1776926.6/15

Left Out: 42.925+/-0.009 χ^2/NDF : 217752.3/15

Right Out: 47.598+/-0.015 χ^2/NDF : 2418253.9/17

Left In: 44.960+/-0.010 χ^2/NDF : 294771.8/14

Left: 43.902+/-0.007 χ^2/NDF : 535478.6/30

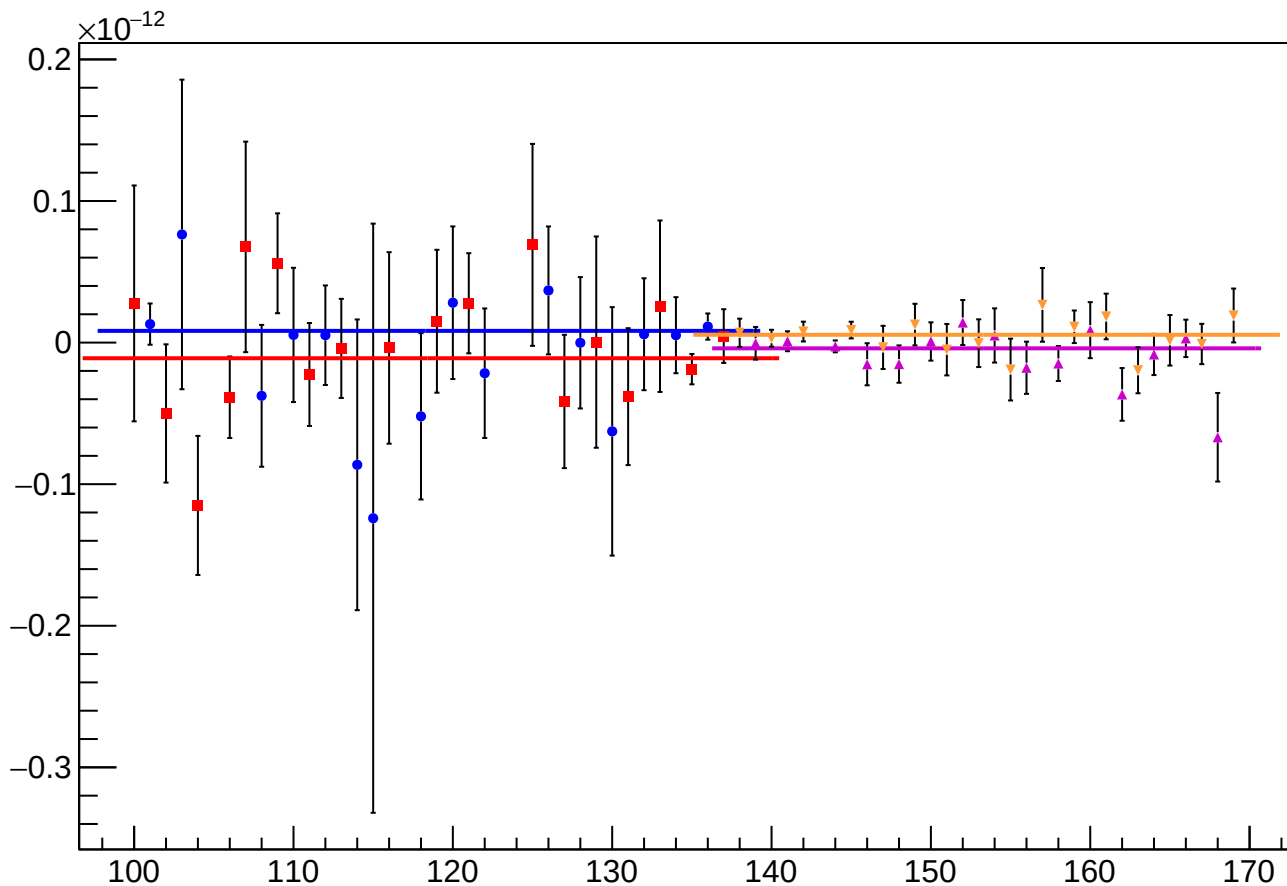
Right: 48.487+/-0.011 χ^2/NDF : 4201863.1/33

In: 46.270+/-0.008 χ^2/NDF : 2132706.7/30

Out: 44.200+/-0.008 χ^2/NDF : 2704789.1/33

All: 45.213+/-0.006 χ^2/NDF : 4870756.5/64

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 7.6/15

Right Out: -0.000+/-0.000 χ^2/NDF : 16.2/17

Left In: -0.000+/-0.000 χ^2/NDF : 12.8/14

Left: 0.000+/-0.000 χ^2/NDF : 26.6/30

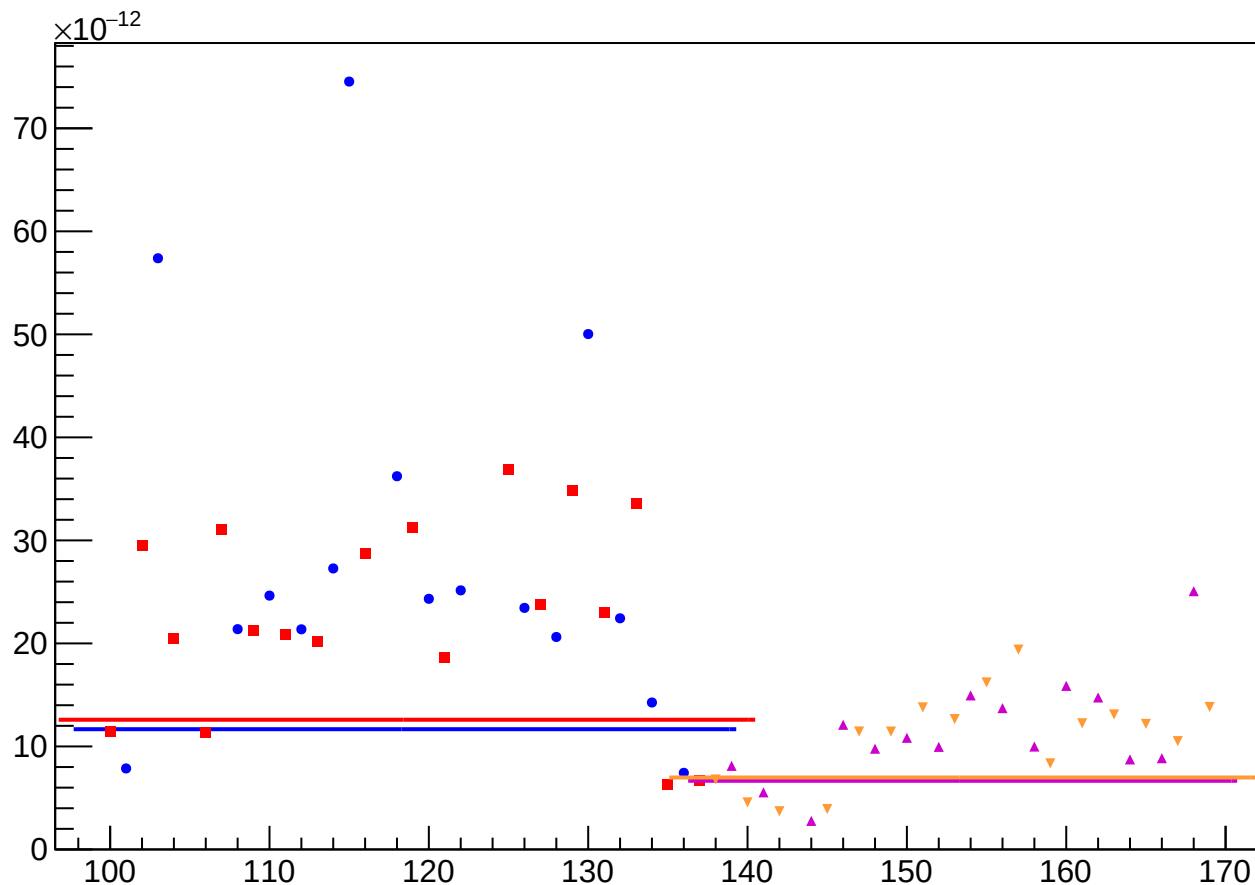
Right: -0.000+/-0.000 χ^2/NDF : 25.5/33

In: -0.000+/-0.000 χ^2/NDF : 21.2/30

Out: 0.000+/-0.000 χ^2/NDF : 28.4/33

All: 0.000+/-0.000 χ^2/NDF : 52.1/64

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2905247.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 4058901.6/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2923298.3/17

Left In: 0.000+/-0.000 χ^2/NDF : 4862429.3/14

Left: 0.000+/-0.000 χ^2/NDF : 8934758.6/30

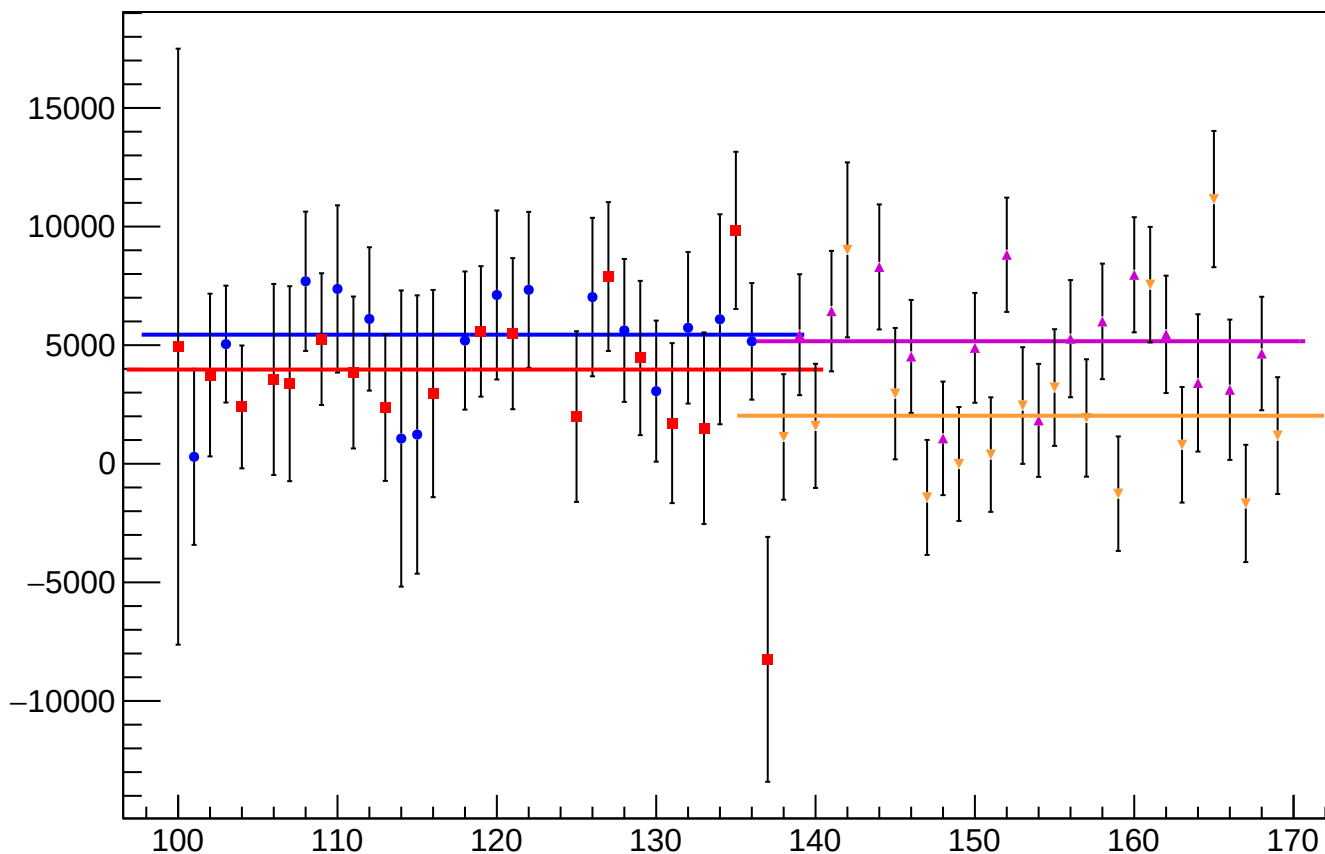
Right: 0.000+/-0.000 χ^2/NDF : 5846038.9/33

In: 0.000+/-0.000 χ^2/NDF : 8732472.3/30

Out: 0.000+/-0.000 χ^2/NDF : 8034233.0/33

All: 0.000+/-0.000 χ^2/NDF : 16780753.6/64

reg_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5442.336 $\pm$ 812.534 χ^2 /NDF: 5.4/15

Left Out: 2025.328 $\pm$ 637.528 χ^2 /NDF:27.0/15

Right Out: 3971.728 $\pm$ 809.023 χ^2 /NDF: 13.0/17

Left In: 5165.165 $\pm$ 643.829 χ^2 /NDF:11.3/14

Left: 3579.807 $\pm$ 453.012 χ^2 /NDF: 50.3/30

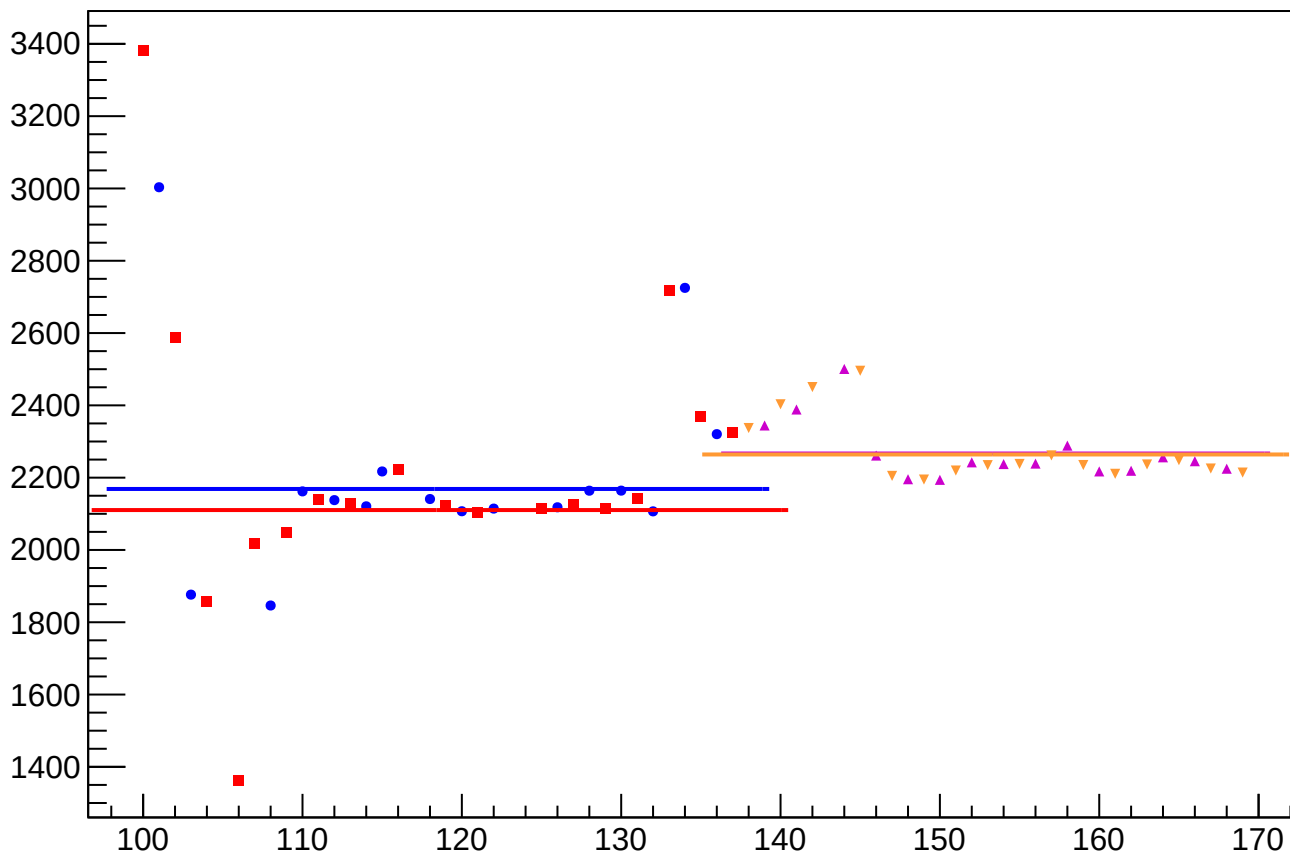
Right: 4703.849 $\pm$ 573.303 χ^2 /NDF: 20.0/33

In: 5272.068 $\pm$ 504.618 χ^2 /NDF:16.7/30

Out: 2770.972 $\pm$ 500.738 χ^2 /NDF:43.6/33

All: 4011.868 $\pm$ 355.439 χ^2 /NDF: 72.7/64

reg_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2168.715+/-0.575 χ^2/NDF : 195659.5/15

Left Out: 2264.140+/-0.451 χ^2/NDF : 33201.1/15

Right Out: 2110.365+/-0.563 χ^2/NDF : 267413.4/17

Left In: 2266.830+/-0.455 χ^2/NDF : 29203.0/14

Left: 2265.471+/-0.320 χ^2/NDF : 62421.8/30

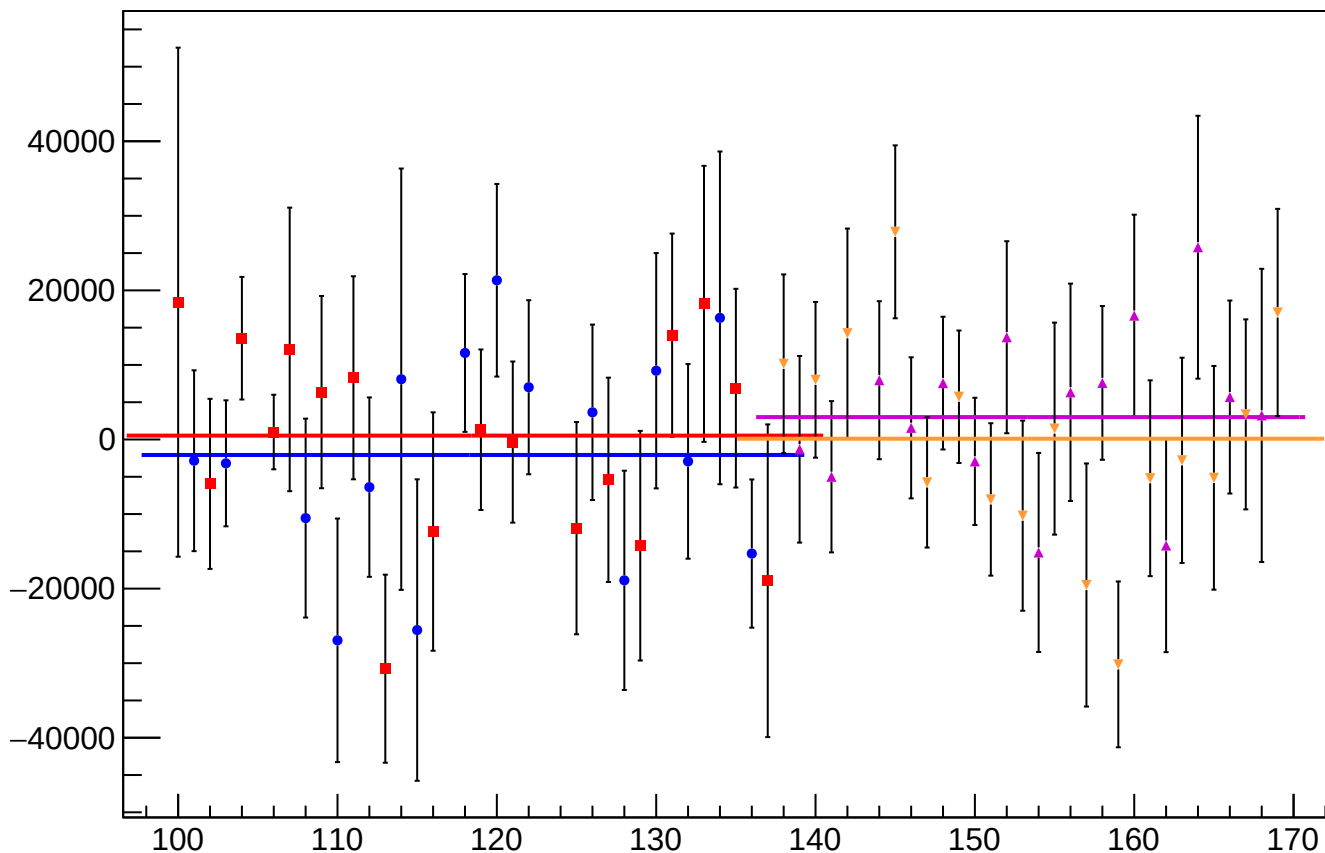
Right: 2138.947+/-0.402 χ^2/NDF : 468334.9/33

In: 2228.988+/-0.357 χ^2/NDF : 242776.7/30

Out: 2204.062+/-0.352 χ^2/NDF : 346074.3/33

All: 2216.352+/-0.251 χ^2/NDF : 591324.7/64

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -2074.843 ± 3212.093 $\chi^2/\text{NDF}: 14.4/15$

Left Out: 107.027 ± 2964.391 $\chi^2/\text{NDF}: 20.9/15$

Right Out: 521.454 ± 2715.587 $\chi^2/\text{NDF}: 15.7/17$

Left In: 3004.798 ± 3009.228 $\chi^2/\text{NDF}: 8.7/14$

Left: 1534.163 ± 2111.815 $\chi^2/\text{NDF}: 30.1/30$

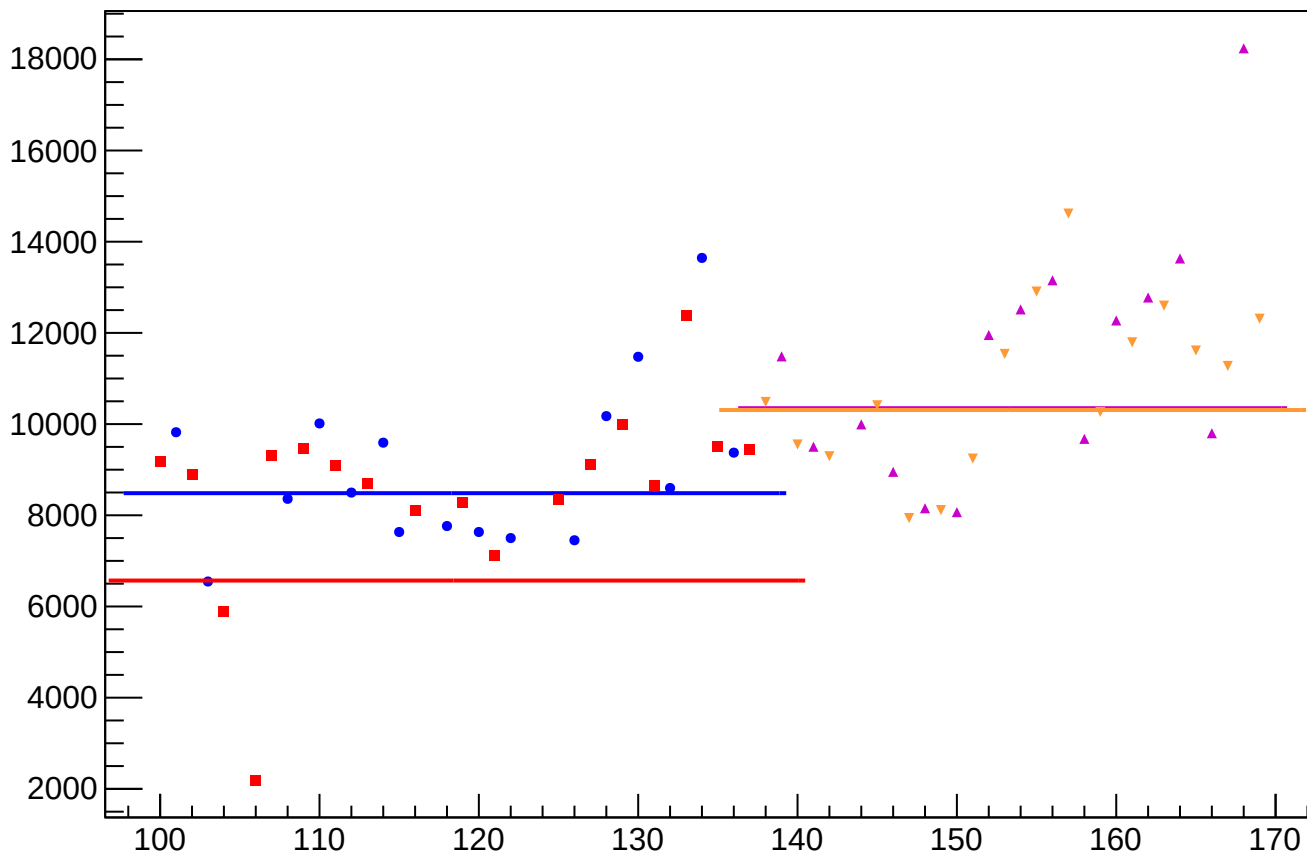
Right: -560.742 ± 2073.786 $\chi^2/\text{NDF}: 30.5/33$

In: 630.438 ± 2196.063 $\chi^2/\text{NDF}: 24.5/30$

Out: 332.359 ± 2002.402 $\chi^2/\text{NDF}: 36.6/33$

All: 467.678 ± 1479.650 $\chi^2/\text{NDF}: 61.1/64$

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 8485.000+/-2.271 χ^2/NDF : 422706.1/15

Left Out: 10308.642+/-2.096 χ^2/NDF : 686719.2/15

Right Out: 6568.711+/-1.920 χ^2/NDF : 2568887.0/17

Left In: 10349.245+/-2.128 χ^2/NDF : 1000096.3/14

Left: 10328.639+/-1.493 χ^2/NDF : 1687000.3/30

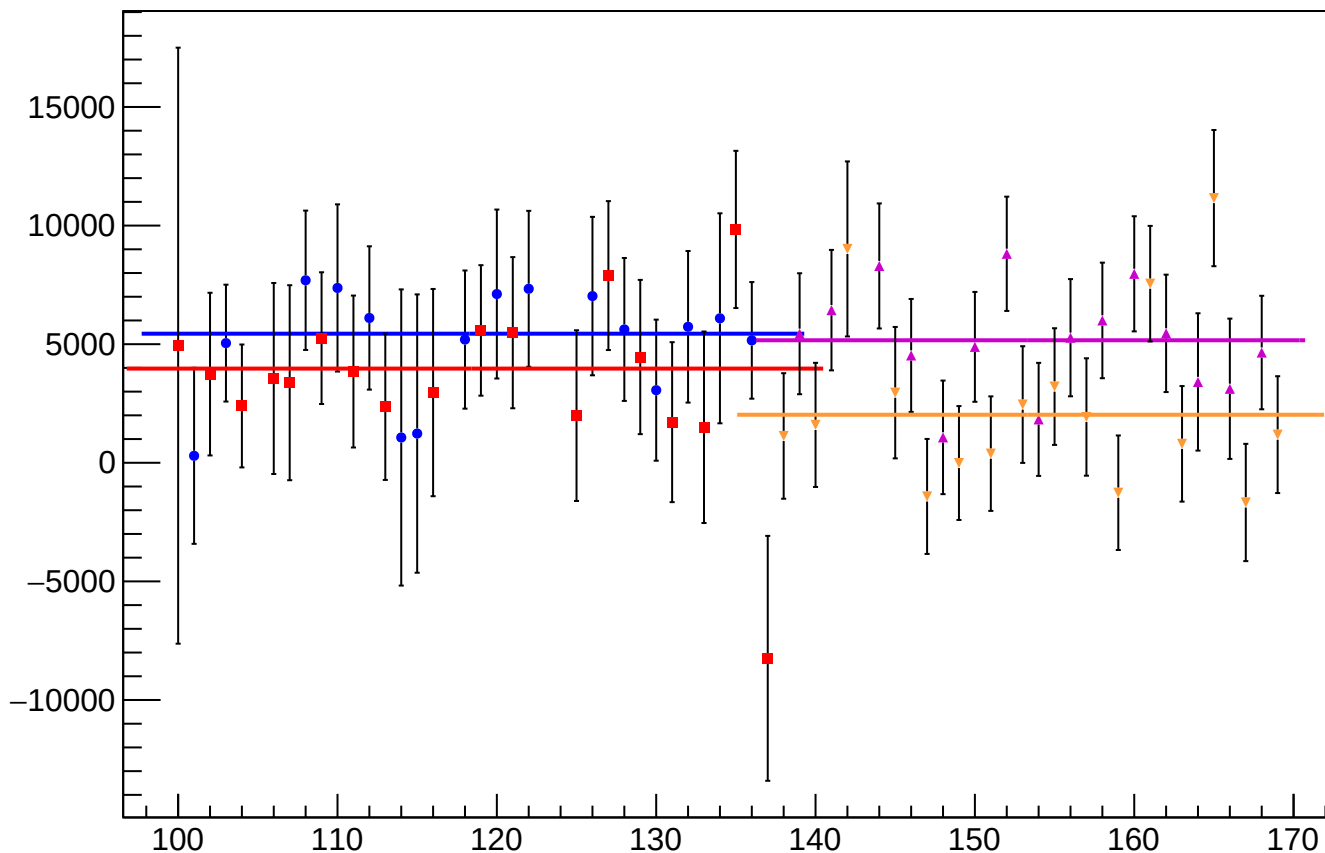
Right: 7367.464+/-1.466 χ^2/NDF : 3406715.7/33

In: 9477.847+/-1.553 χ^2/NDF : 1781591.5/30

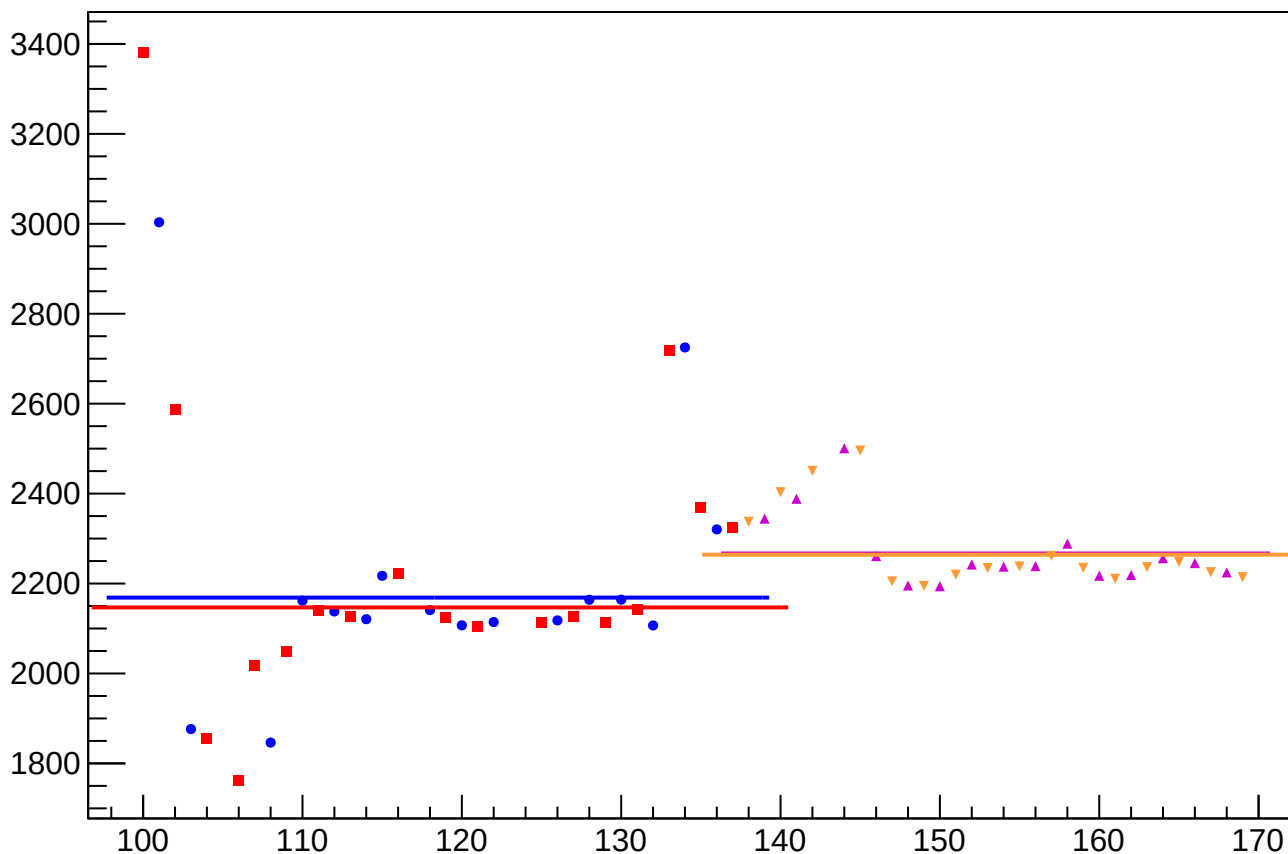
Out: 8275.167+/-1.416 χ^2/NDF : 4986464.5/33

All: 8821.149+/-1.046 χ^2/NDF : 7095589.5/64

cor_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



cor_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2168.715+/-0.575 χ^2/NDF : 195659.8/15

Left Out: 2264.140+/-0.451 χ^2/NDF : 33201.1/15

Right Out: 2146.888+/-0.569 χ^2/NDF : 157750.7/17

Left In: 2266.830+/-0.455 χ^2/NDF : 29203.0/14

Left: 2265.471+/-0.320 χ^2/NDF : 62421.8/30

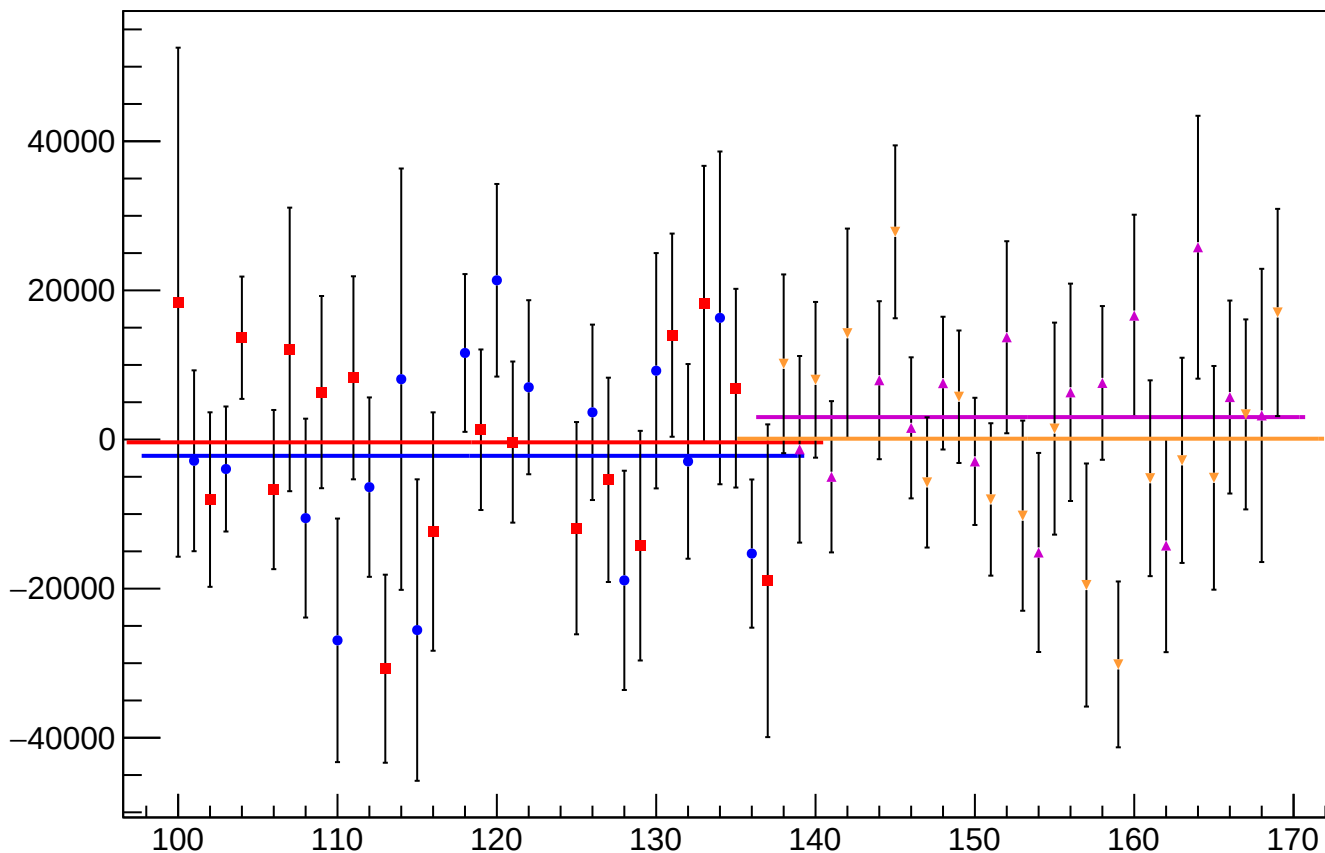
Right: 2157.700+/-0.404 χ^2/NDF : 354138.9/33

In: 2228.988+/-0.357 χ^2/NDF : 242777.1/30

Out: 2218.946+/-0.353 χ^2/NDF : 217027.3/33

All: 2223.918+/-0.251 χ^2/NDF : 460204.2/64

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -2189.256 $\pm$ 3208.524 χ^2/NDF : 14.5/15

Left Out: 106.973 $\pm$ 2964.389 χ^2/NDF : 20.9/15

Right Out: -379.236 $\pm$ 3099.953 χ^2/NDF : 16.3/17

Left In: 3005.012 $\pm$ 3009.227 χ^2/NDF : 8.7/14

Left: 1534.241 $\pm$ 2111.814 χ^2/NDF : 30.1/30

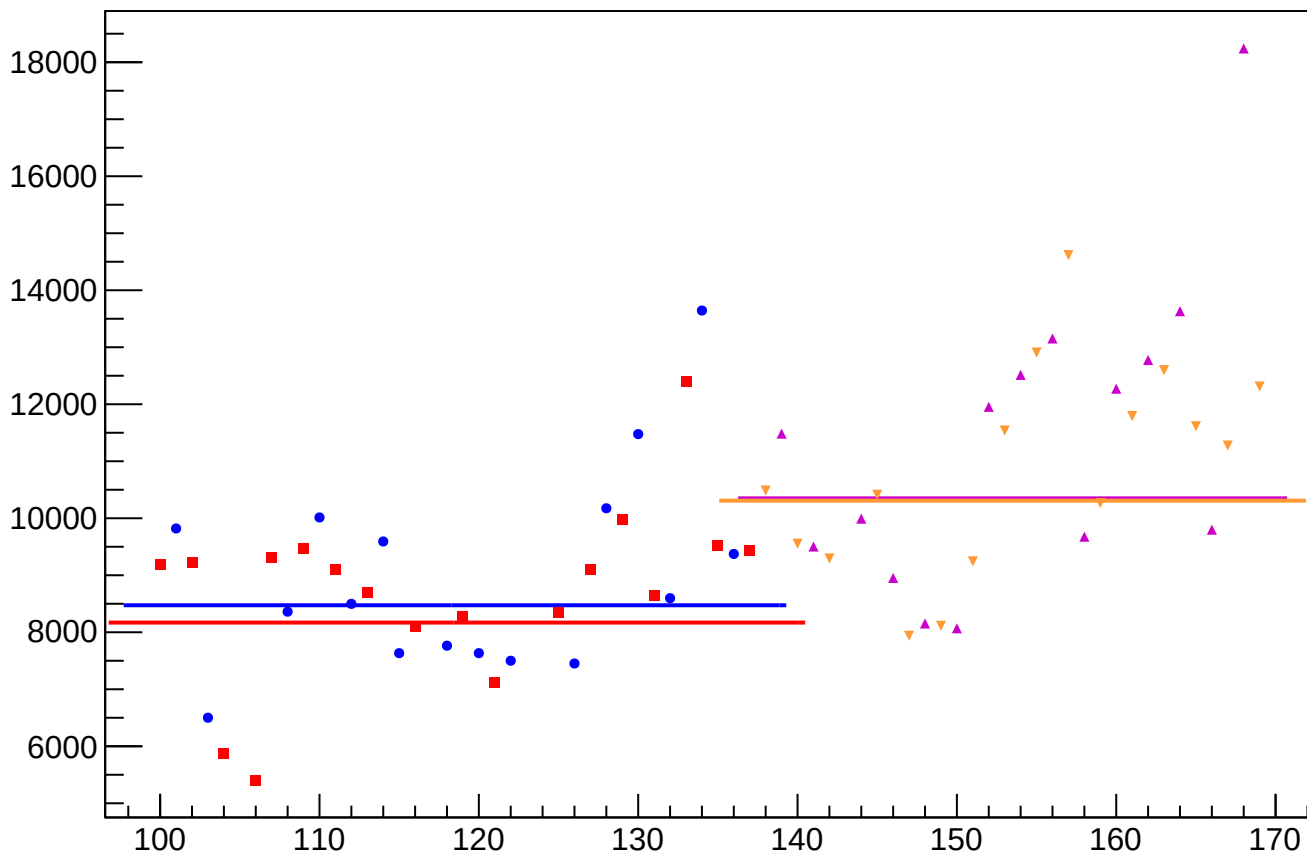
Right: -1253.105 $\pm$ 2229.393 χ^2/NDF : 30.9/33

In: 574.198 $\pm$ 2194.921 χ^2/NDF : 24.5/30

Out: -125.268 $\pm$ 2142.462 χ^2/NDF : 37.2/33

All: 216.006 $\pm$ 1533.160 χ^2/NDF : 61.8/64

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 8473.743+/-2.269 χ^2/NDF : 429547.3/15

Left Out: 10308.633+/-2.096 χ^2/NDF : 686720.5/15

Right Out: 8170.027+/-2.192 χ^2/NDF : 539925.8/17

Left In: 10349.240+/-2.128 χ^2/NDF : 1000101.2/14

Left: 10328.631+/-1.493 χ^2/NDF : 1687006.6/30

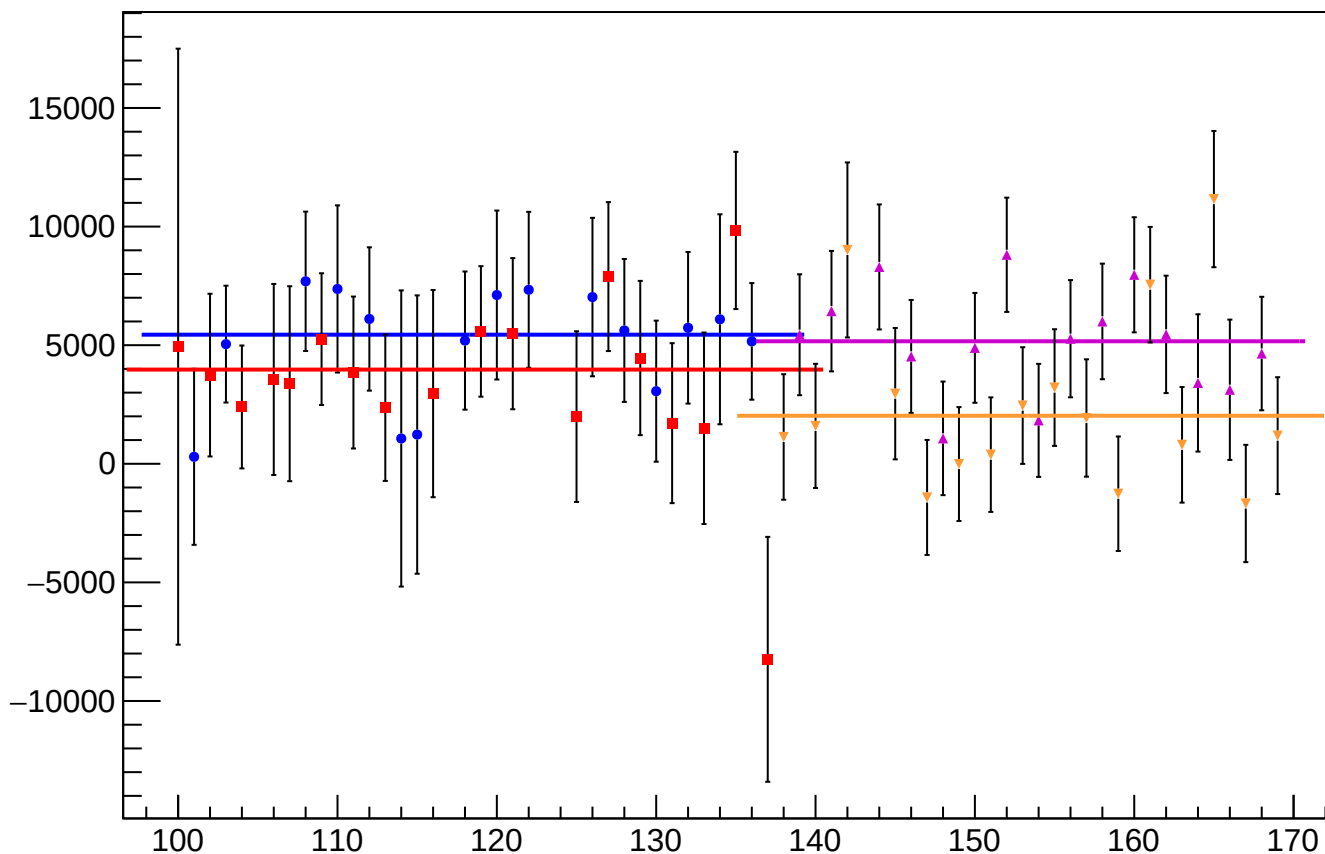
Right: 8316.660+/-1.576 χ^2/NDF : 978741.7/33

In: 9471.545+/-1.552 χ^2/NDF : 1793211.9/30

Out: 9287.113+/-1.515 χ^2/NDF : 1723853.0/33

All: 9377.099+/-1.084 χ^2/NDF : 3524296.1/64

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5442.478 $\pm$ 812.534 χ^2/NDF : 5.4/15

Left Out: 2025.171 $\pm$ 637.528 χ^2/NDF : 27.0/15

Right Out: 3971.470 $\pm$ 809.023 χ^2/NDF : 13.0/17

Left In: 5165.279 $\pm$ 643.829 χ^2/NDF : 11.3/14

Left: 3579.784 $\pm$ 453.012 χ^2/NDF : 50.3/30

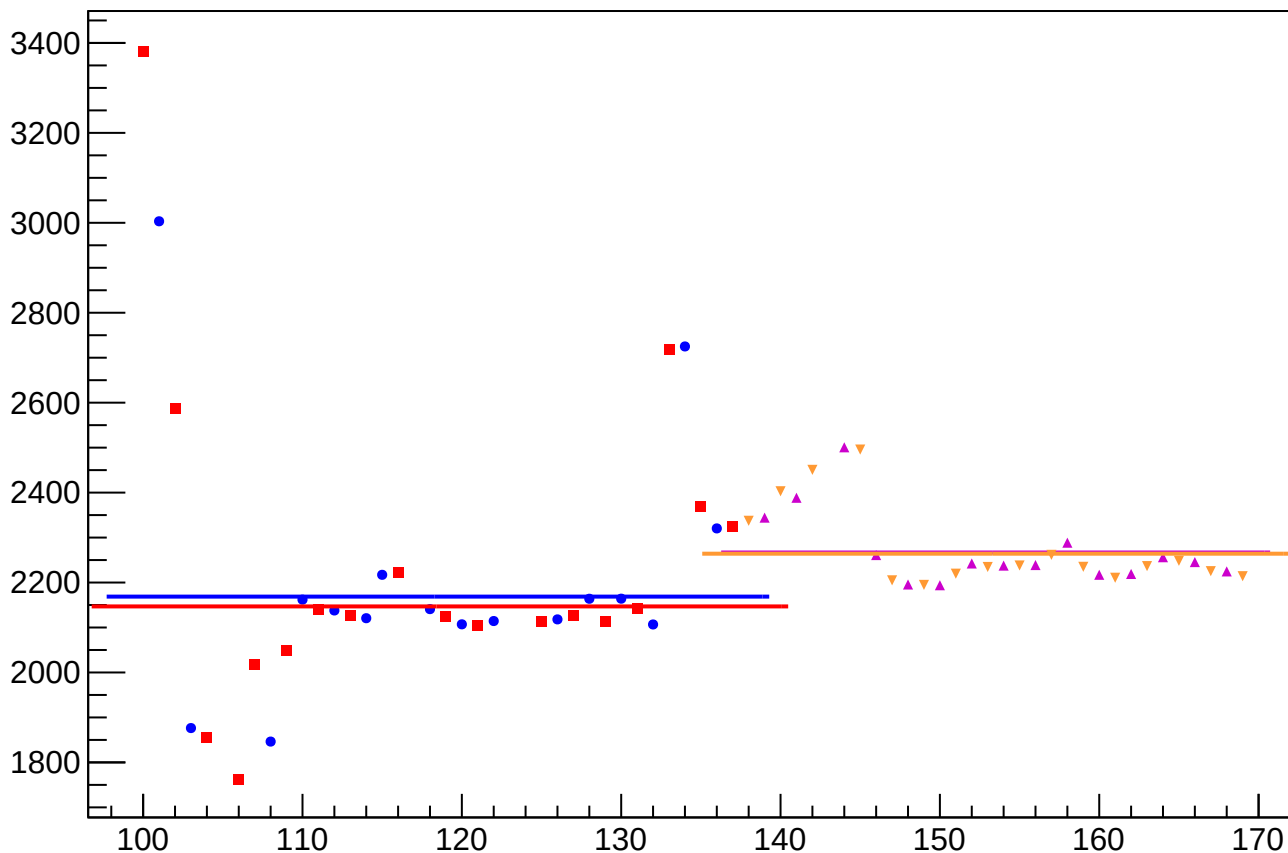
Right: 4703.790 $\pm$ 573.303 χ^2/NDF : 20.0/33

In: 5272.193 $\pm$ 504.618 χ^2/NDF : 16.7/30

Out: 2770.776 $\pm$ 500.738 χ^2/NDF : 43.6/33

All: 4011.831 $\pm$ 355.439 χ^2/NDF : 72.7/64

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2168.715 $\pm$ 0.575 χ^2/NDF : 195659.8/15

Left Out: 2264.140 $\pm$ 0.451 χ^2/NDF : 33201.1/15

Right Out: 2146.888 $\pm$ 0.569 χ^2/NDF : 157750.7/17

Left In: 2266.830 $\pm$ 0.455 χ^2/NDF : 29203.0/14

Left: 2265.471 $\pm$ 0.320 χ^2/NDF : 62421.8/30

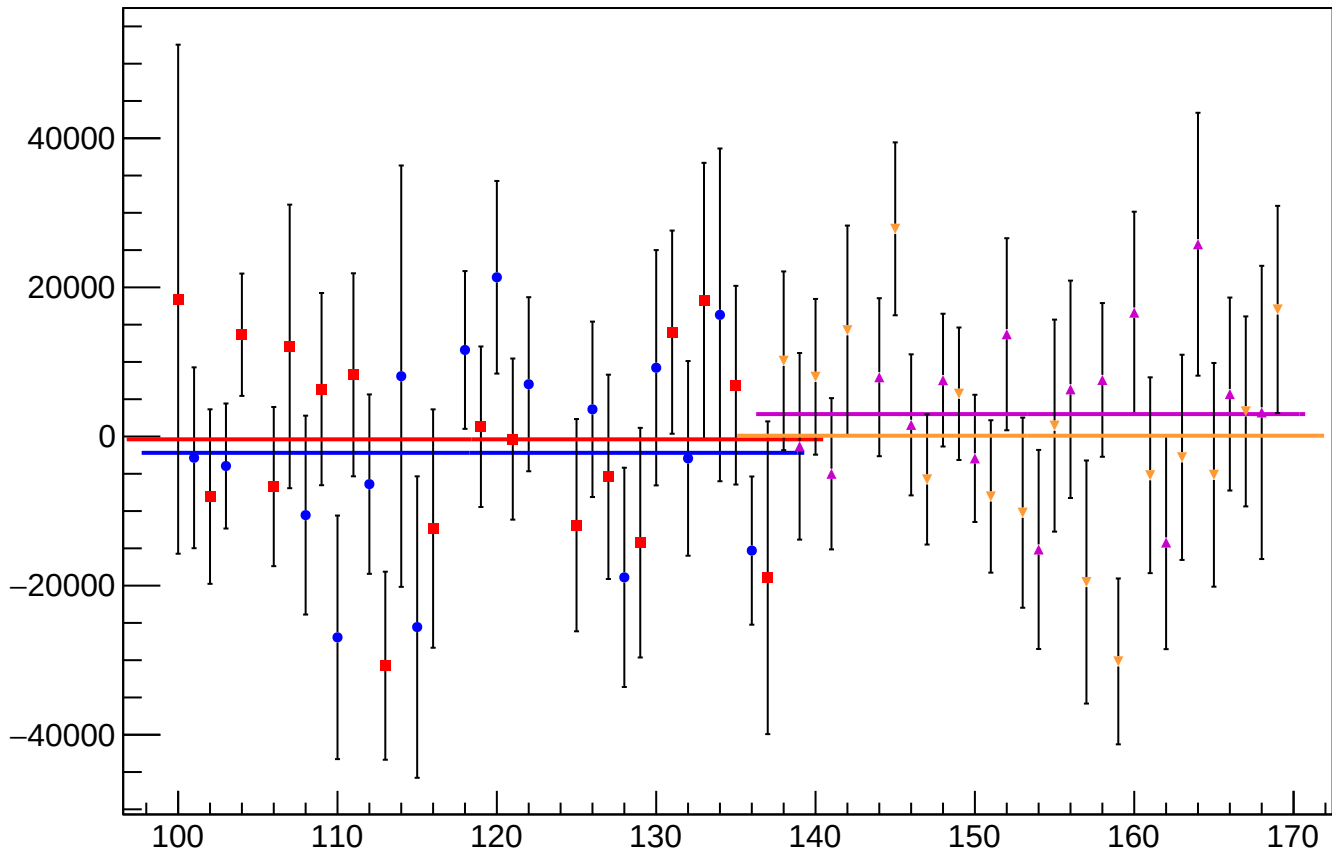
Right: 2157.700 $\pm$ 0.404 χ^2/NDF : 354138.9/33

In: 2228.988 $\pm$ 0.357 χ^2/NDF : 242777.1/30

Out: 2218.946 $\pm$ 0.353 χ^2/NDF : 217027.3/33

All: 2223.918 $\pm$ 0.251 χ^2/NDF : 460204.2/64

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -2189.256 ± 3208.524 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 106.973 ± 2964.389 $\chi^2/\text{NDF}: 20.9/15$

Right Out: -379.236 ± 3099.953 $\chi^2/\text{NDF}: 16.3/17$

Left In: 3005.012 ± 3009.227 $\chi^2/\text{NDF}: 8.7/14$

Left: 1534.241 ± 2111.814 $\chi^2/\text{NDF}: 30.1/30$

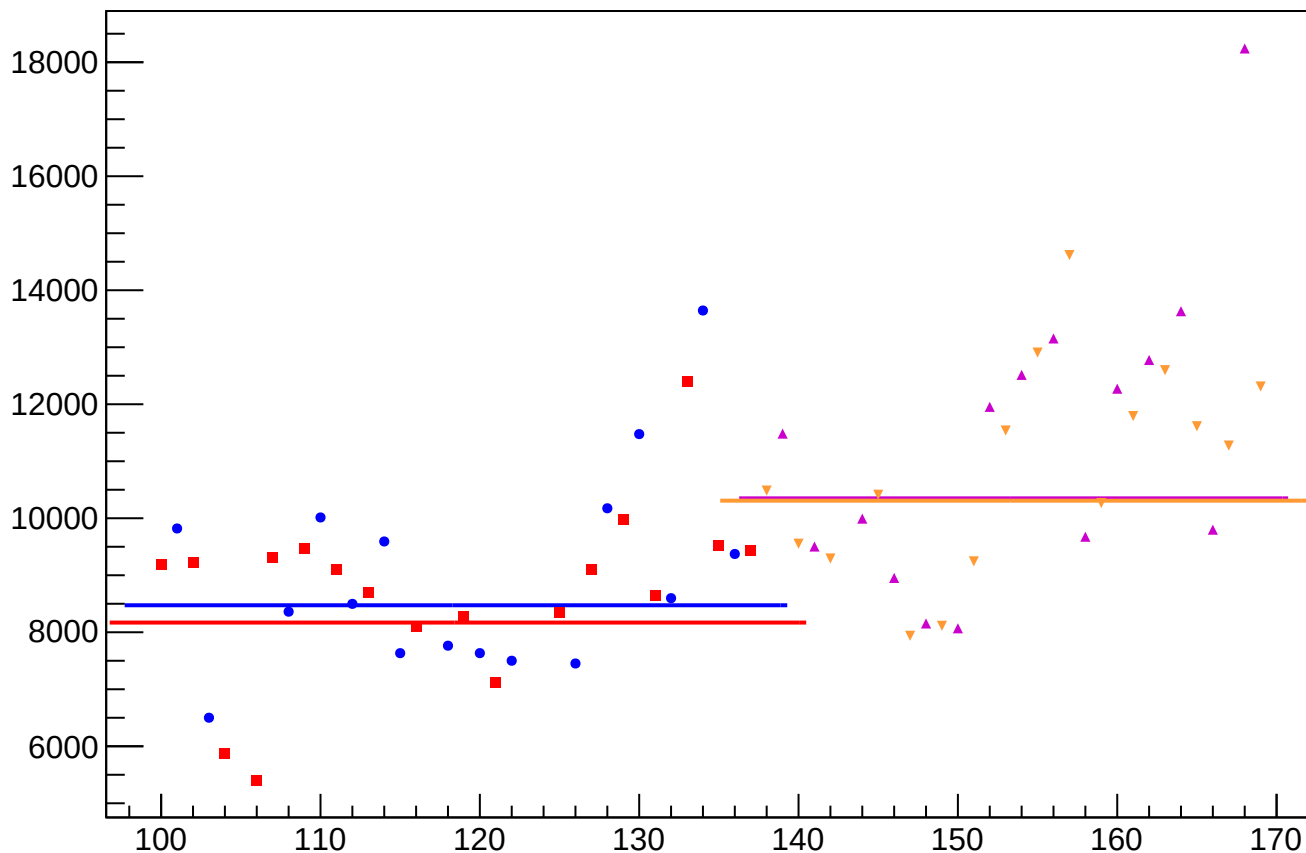
Right: -1253.105 ± 2229.393 $\chi^2/\text{NDF}: 30.9/33$

In: 574.198 ± 2194.921 $\chi^2/\text{NDF}: 24.5/30$

Out: -125.268 ± 2142.462 $\chi^2/\text{NDF}: 37.2/33$

All: 216.006 ± 1533.160 $\chi^2/\text{NDF}: 61.8/64$

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 8473.743+/-2.269 χ^2/NDF : 429547.3/15

Left Out: 10308.633+/-2.096 χ^2/NDF : 686720.5/15

Right Out: 8170.027+/-2.192 χ^2/NDF : 539925.8/17

Left In: 10349.240+/-2.128 χ^2/NDF : 1000101.2/14

Left: 10328.631+/-1.493 χ^2/NDF : 1687006.6/30

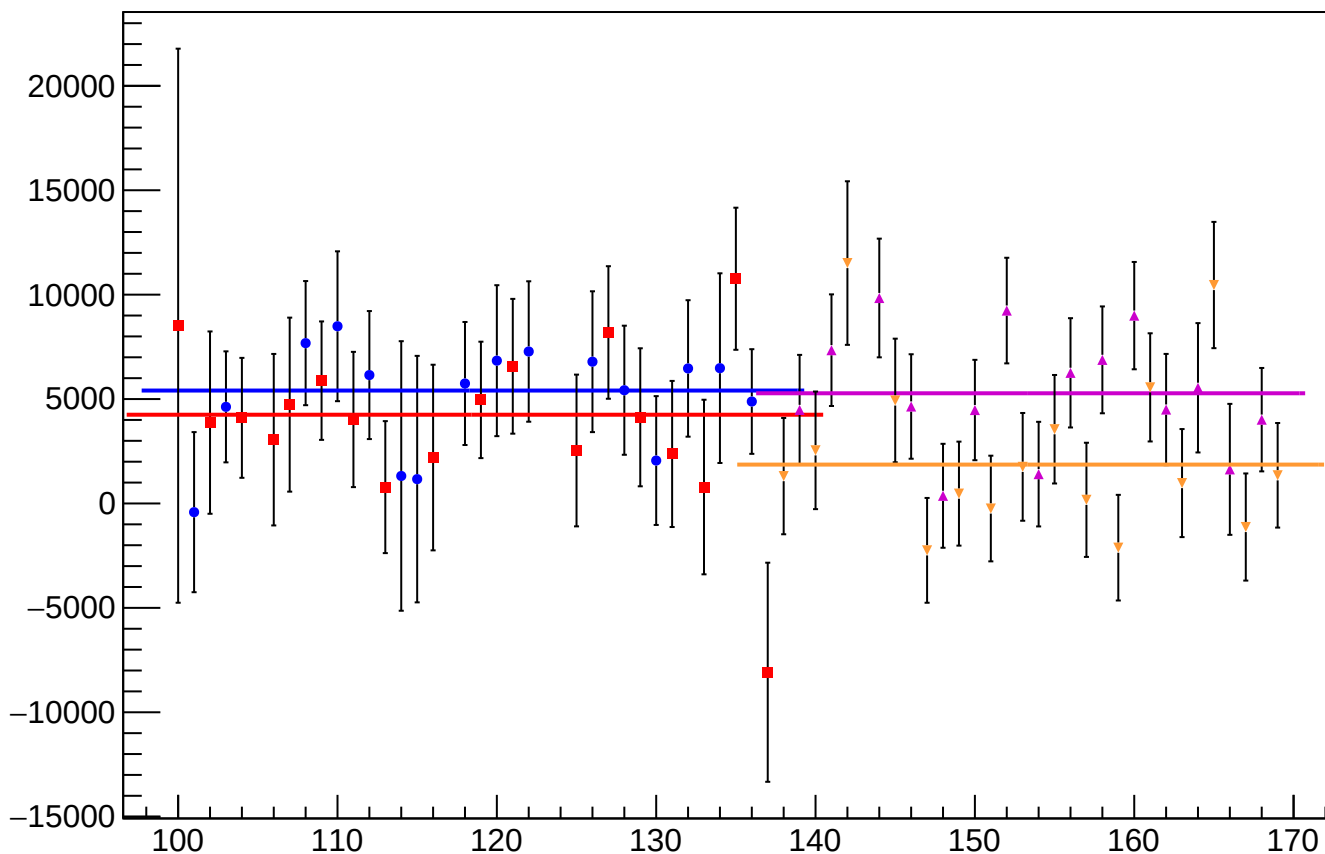
Right: 8316.660+/-1.576 χ^2/NDF : 978741.7/33

In: 9471.545+/-1.552 χ^2/NDF : 1793211.9/30

Out: 9287.113+/-1.515 χ^2/NDF : 1723853.0/33

All: 9377.099+/-1.084 χ^2/NDF : 3524296.1/64

dit_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5407.867 $\pm$ 833.689 χ^2 /NDF: 6.7/15

Left Out: 1861.676 $\pm$ 671.427 χ^2 /NDF:25.9/15

Right Out: 4249.899 $\pm$ 839.336 χ^2 /NDF: 14.5/17

Left In: 5277.081 $\pm$ 677.618 χ^2 /NDF:16.5/14

Left: 3553.705 $\pm$ 476.944 χ^2 /NDF: 55.2/30

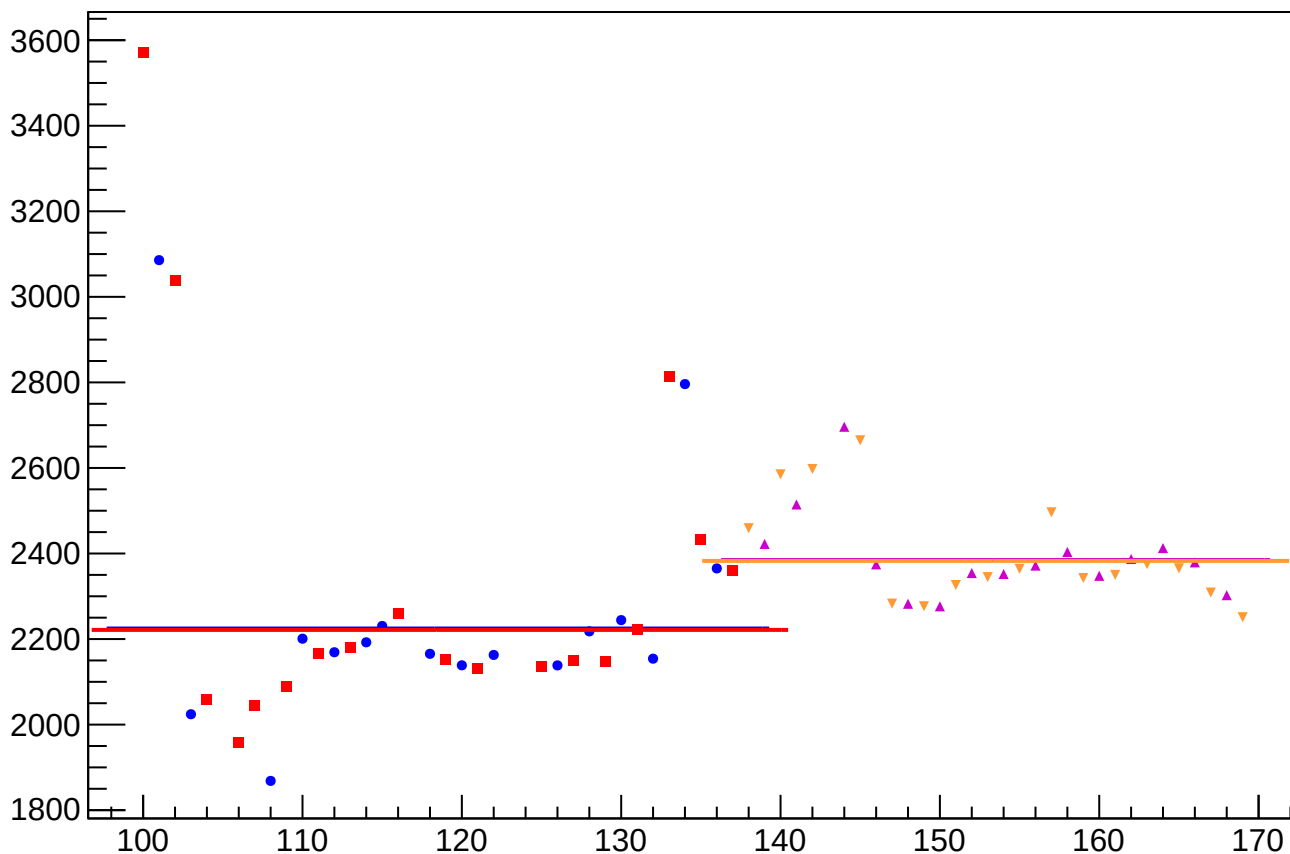
Right: 4832.791 $\pm$ 591.493 χ^2 /NDF: 22.2/33

In: 5329.110 $\pm$ 525.833 χ^2 /NDF:23.2/30

Out: 2793.595 $\pm$ 524.309 χ^2 /NDF:45.3/33

All: 4057.674 $\pm$ 371.280 χ^2 /NDF: 80.2/64

dit_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2224.614 $\pm$ 0.590 χ^2 /NDF: 184679.8/15

Left Out: 2382.753 $\pm$ 0.475 χ^2 /NDF: 55868.9/15

Right Out: 2221.425 $\pm$ 0.593 χ^2 /NDF: 169944.3/17

Left In: 2384.787 $\pm$ 0.479 χ^2 /NDF: 40201.1/14

Left: 2383.761 $\pm$ 0.337 χ^2 /NDF: 96079.1/30

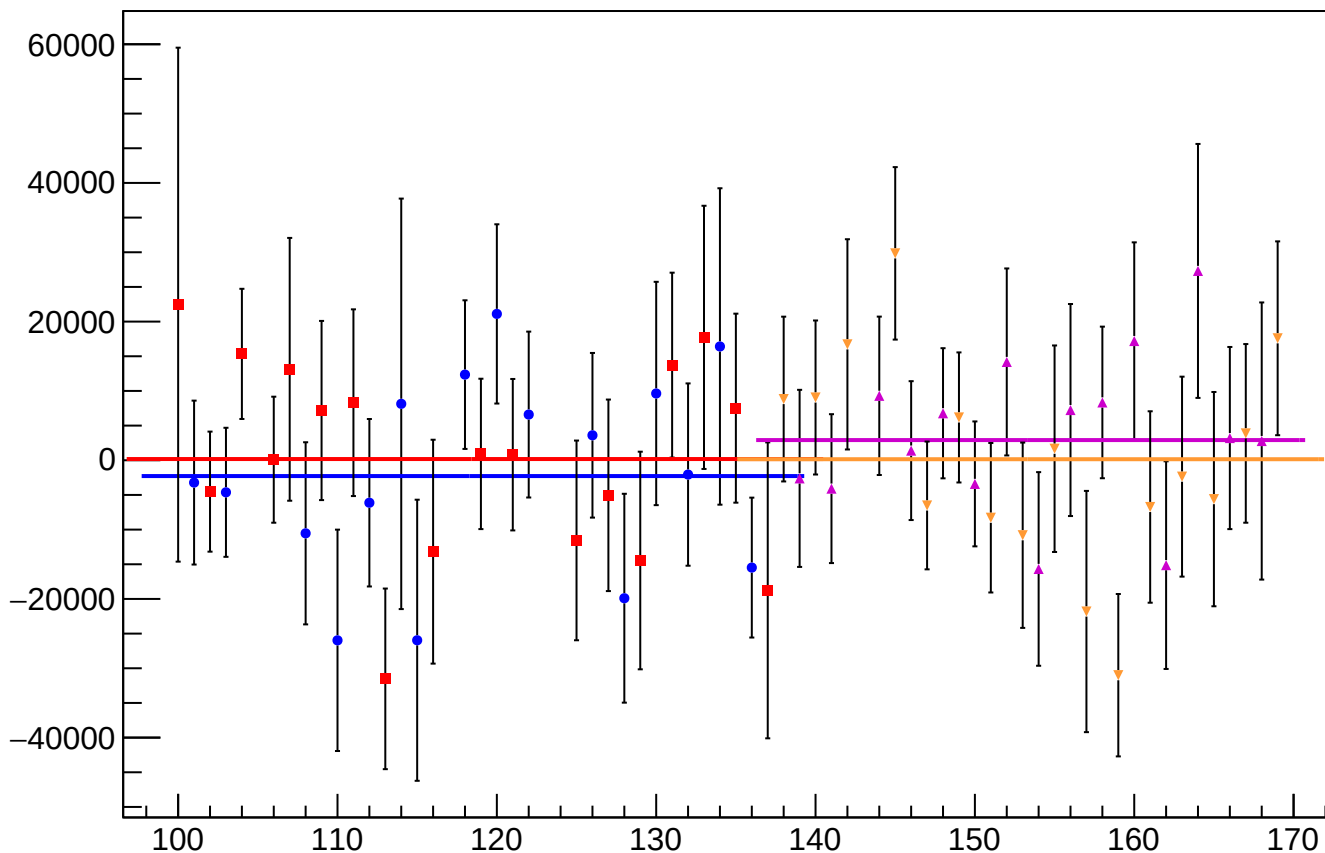
Right: 2223.029 $\pm$ 0.418 χ^2 /NDF: 354638.7/33

In: 2321.067 $\pm$ 0.372 χ^2 /NDF: 269336.5/30

Out: 2319.753 $\pm$ 0.371 χ^2 /NDF: 270903.3/33

All: 2320.408 $\pm$ 0.263 χ^2 /NDF: 540246.1/64

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -2278.440 $\pm$ 3271.750 χ^2 /NDF: 14.5/15

Left Out: 150.720 $\pm$ 3103.201 χ^2 /NDF:21.0/15

Right Out: 177.024 $\pm$ 3035.355 χ^2 /NDF: 15.6/17

Left In: 2912.121 $\pm$ 3161.170 χ^2 /NDF:8.6/14

Left: 1505.869 $\pm$ 2214.505 χ^2 /NDF: 30.1/30

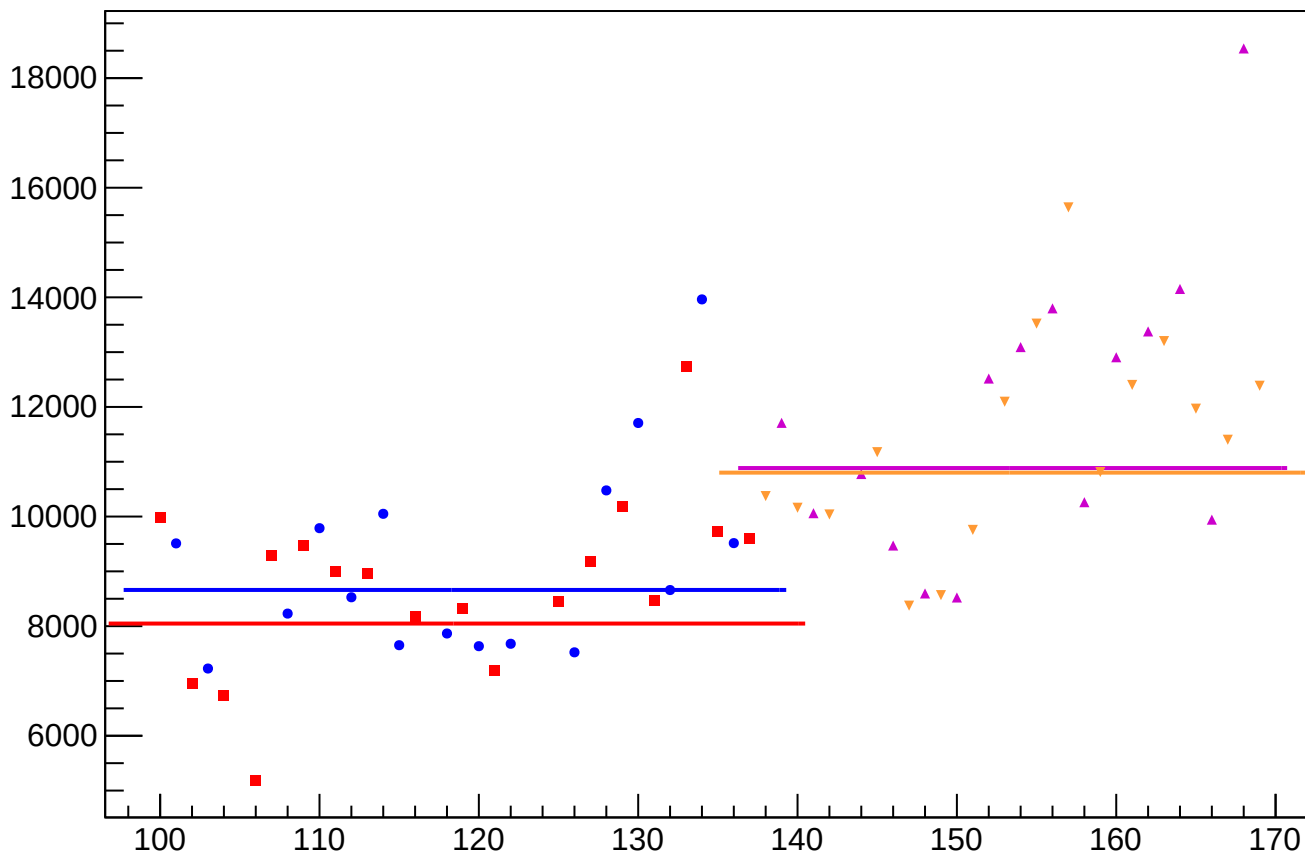
Right: -958.805 $\pm$ 2225.203 χ^2 /NDF: 30.4/33

In: 406.038 $\pm$ 2273.373 χ^2 /NDF:24.4/30

Out: 164.163 $\pm$ 2169.910 χ^2 /NDF:36.7/33

All: 279.471 $\pm$ 1569.660 χ^2 /NDF: 61.1/64

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 8660.733+/-2.313 χ^2/NDF : 357961.9/15

Left Out: 10801.428+/-2.194 χ^2/NDF : 651242.6/15

Right Out: 8047.460+/-2.146 χ^2/NDF : 558559.6/17

Left In: 10885.219+/-2.235 χ^2/NDF : 938192.4/14

Left: 10842.548+/-1.566 χ^2/NDF : 1590150.6/30

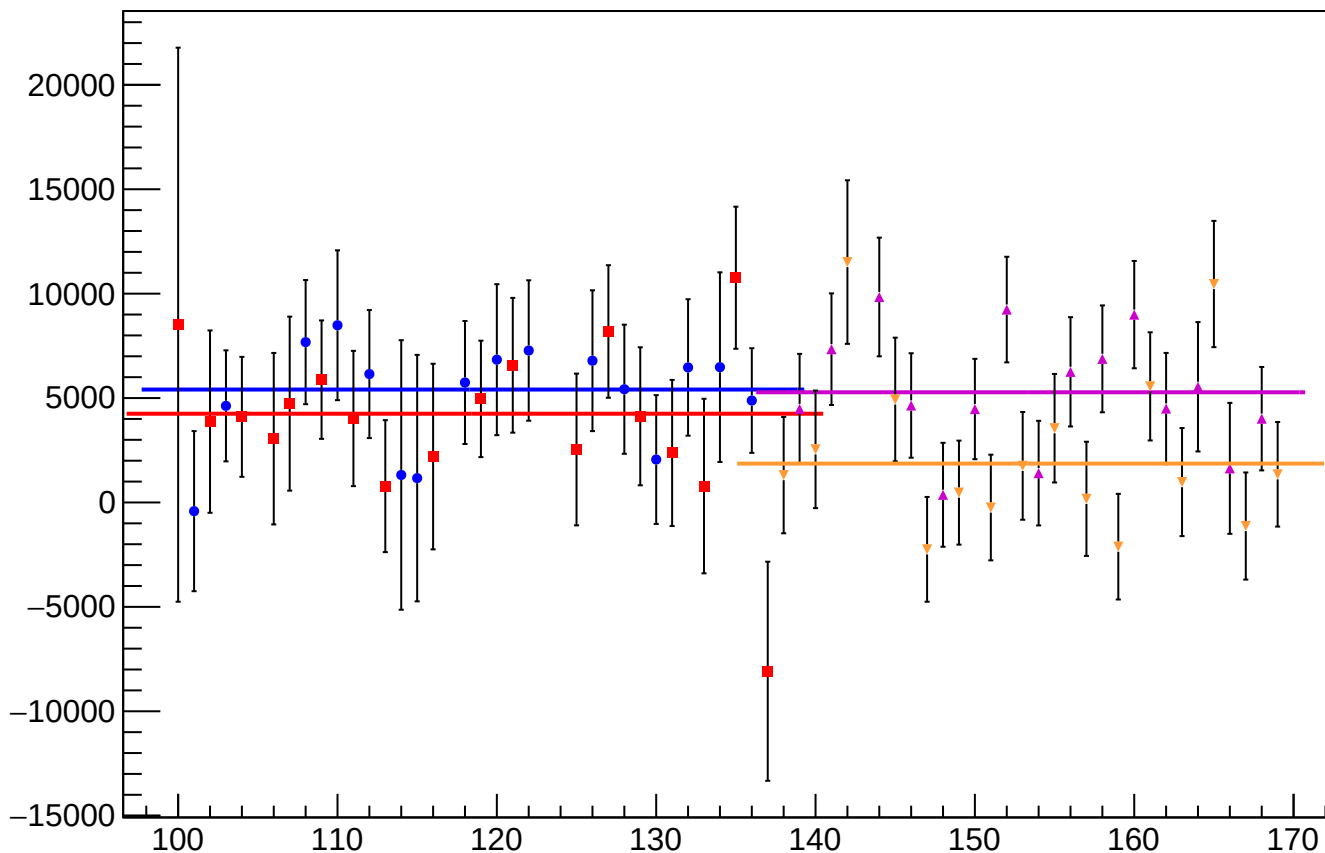
Right: 8331.143+/-1.573 χ^2/NDF : 954287.2/33

In: 9811.203+/-1.608 χ^2/NDF : 1774316.3/30

Out: 9394.010+/-1.534 χ^2/NDF : 2014795.3/33

All: 9592.897+/-1.110 χ^2/NDF : 3824356.1/64

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5407.869+/-833.688 χ^2/NDF : 6.7/15

Left Out: 1861.658+/-671.428 χ^2/NDF :25.9/15

Right Out: 4249.903+/-839.335 χ^2/NDF : 14.5/17

Left In: 5277.085+/-677.619 χ^2/NDF :16.5/14

Left: 3553.698+/-476.945 χ^2/NDF : 55.2/30

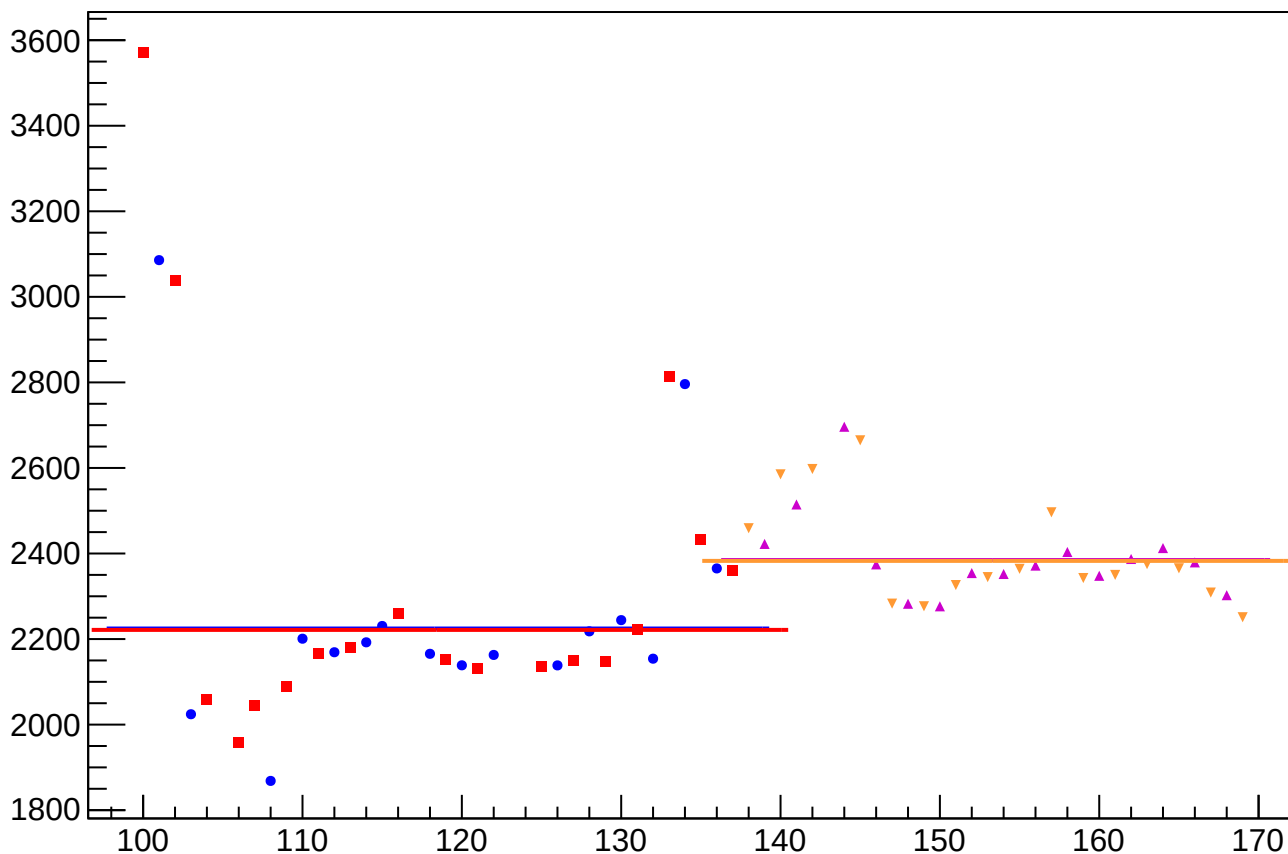
Right: 4832.794+/-591.493 χ^2/NDF : 22.2/33

In: 5329.113+/-525.833 χ^2/NDF :23.2/30

Out: 2793.588+/-524.310 χ^2/NDF :45.3/33

All: 4057.672+/-371.280 χ^2/NDF : 80.2/64

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 2224.613 $\pm$ 0.590 χ^2/NDF : 184680.1/15

Left Out: 2382.757 $\pm$ 0.475 χ^2/NDF : 55869.9/15

Right Out: 2221.425 $\pm$ 0.593 χ^2/NDF : 169944.3/17

Left In: 2384.790 $\pm$ 0.479 χ^2/NDF : 40201.4/14

Left: 2383.764 $\pm$ 0.337 χ^2/NDF : 96080.3/30

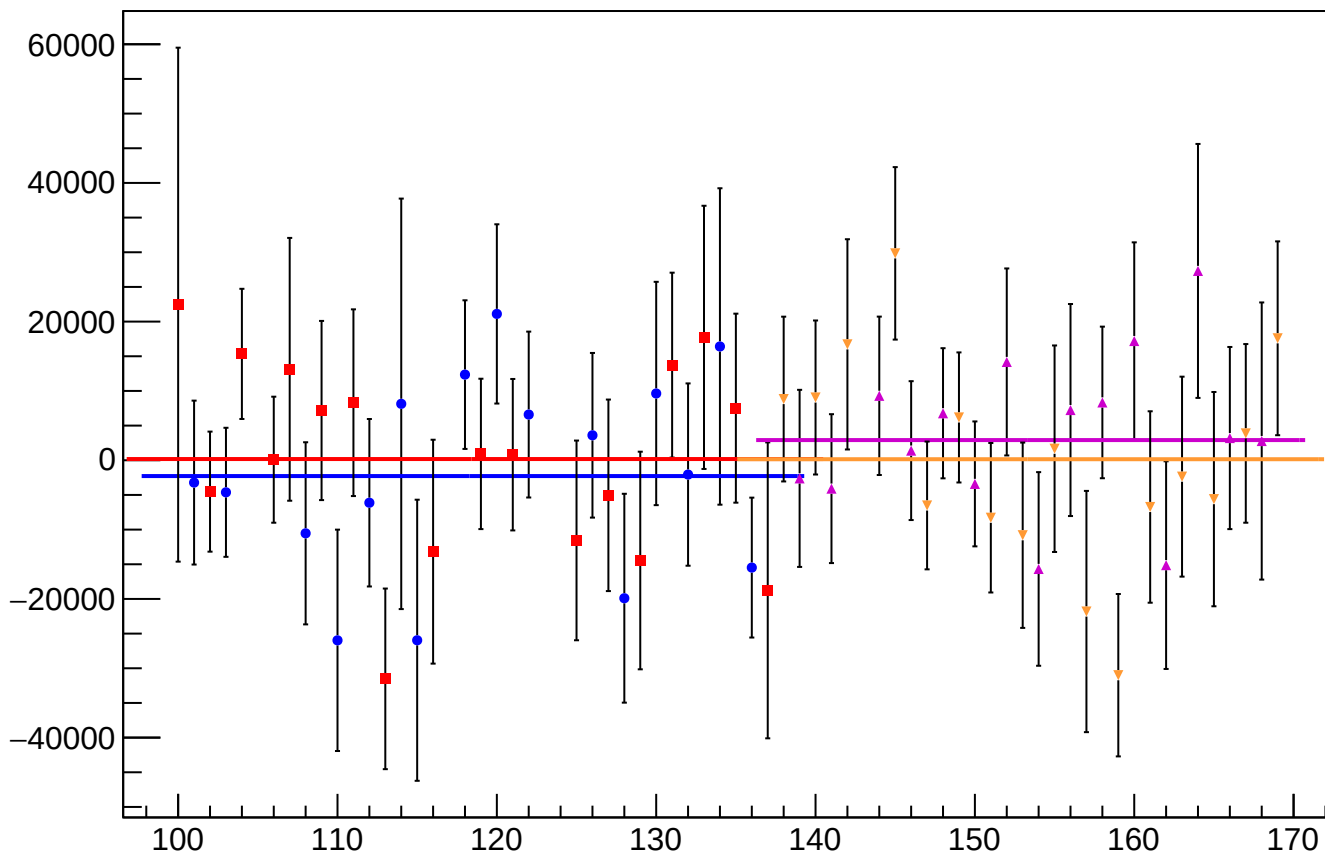
Right: 2223.029 $\pm$ 0.418 χ^2/NDF : 354639.0/33

In: 2321.068 $\pm$ 0.372 χ^2/NDF : 269339.4/30

Out: 2319.755 $\pm$ 0.371 χ^2/NDF : 270906.5/33

All: 2320.410 $\pm$ 0.263 χ^2/NDF : 540252.2/64

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -2278.418 $\pm$ 3271.742 χ^2 /NDF: 14.5/15

Left Out: 150.711 $\pm$ 3103.206 χ^2 /NDF:21.0/15

Right Out: 177.029 $\pm$ 3035.348 χ^2 /NDF: 15.6/17

Left In: 2912.120 $\pm$ 3161.175 χ^2 /NDF:8.6/14

Left: 1505.864 $\pm$ 2214.509 χ^2 /NDF: 30.1/30

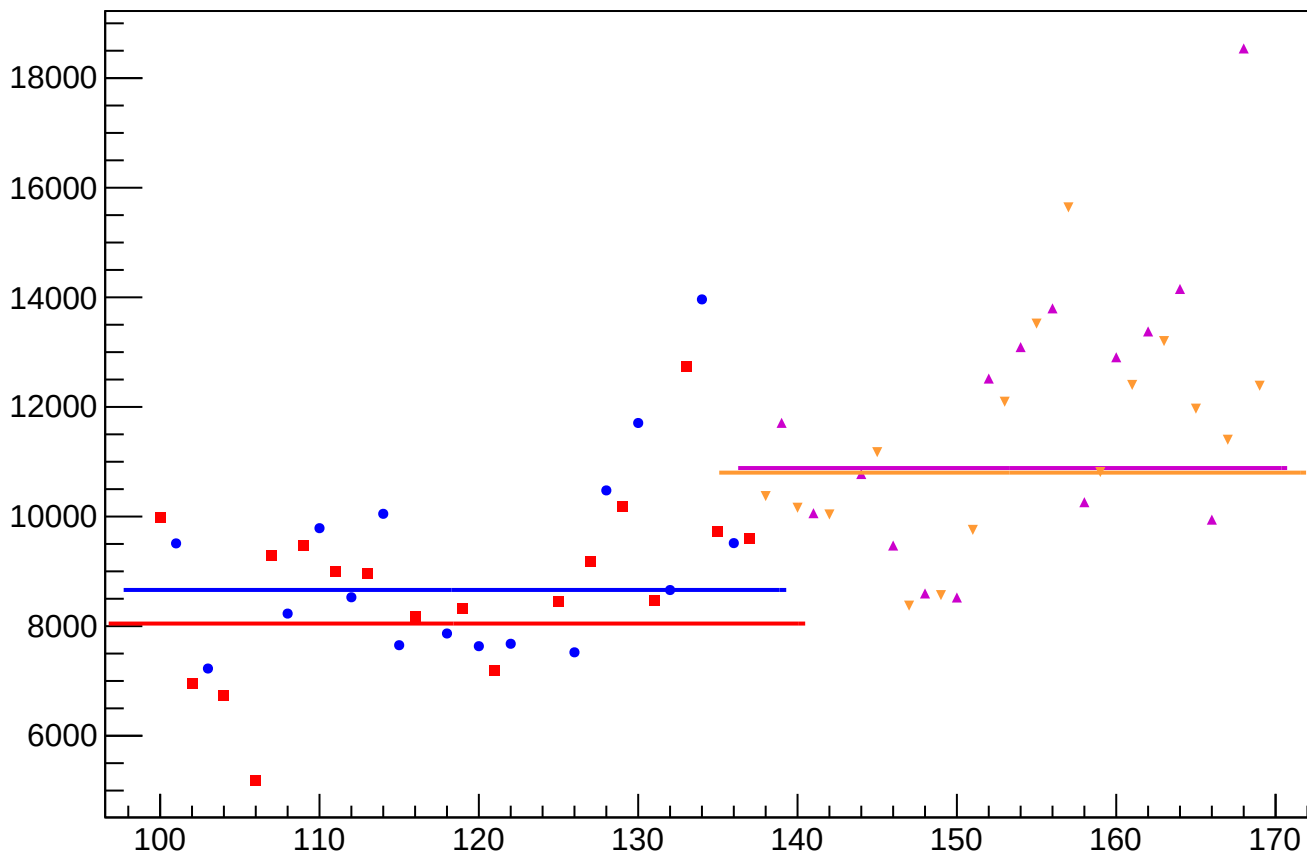
Right: -958.792 $\pm$ 2225.198 χ^2 /NDF: 30.4/33

In: 406.038 $\pm$ 2273.372 χ^2 /NDF:24.4/30

Out: 164.161 $\pm$ 2169.909 χ^2 /NDF:36.7/33

All: 279.471 $\pm$ 1569.660 χ^2 /NDF: 61.1/64

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 8660.711 $\pm$ 2.313 χ^2/NDF : 357964.1/15

Left Out: 10801.443 $\pm$ 2.194 χ^2/NDF : 651244.4/15

Right Out: 8047.442 $\pm$ 2.146 χ^2/NDF : 558557.8/17

Left In: 10885.236 $\pm$ 2.235 χ^2/NDF : 938194.0/14

Left: 10842.564 $\pm$ 1.566 χ^2/NDF : 1590154.0/30

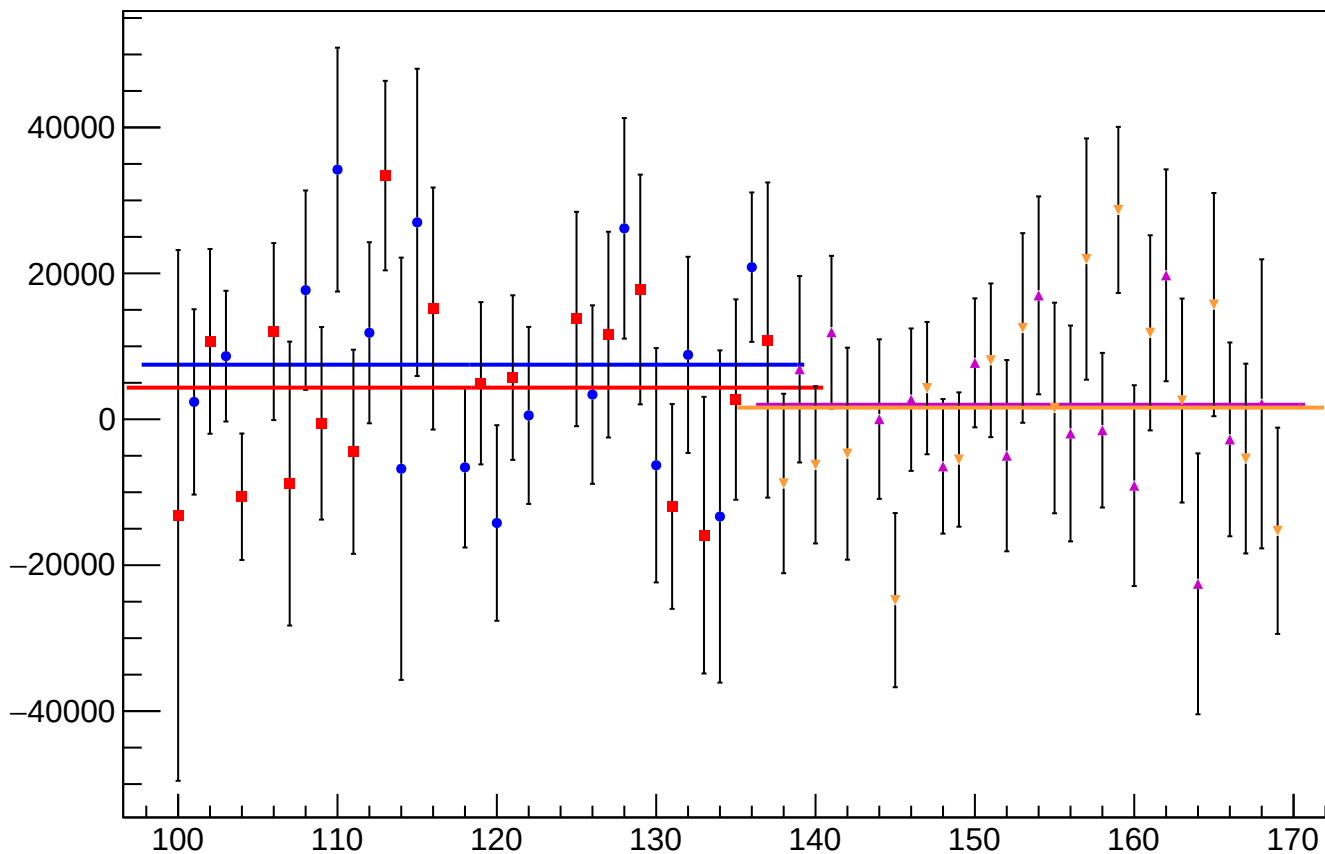
Right: 8331.123 $\pm$ 1.573 χ^2/NDF : 954287.4/33

In: 9811.197 $\pm$ 1.608 χ^2/NDF : 1774336.7/30

Out: 9394.003 $\pm$ 1.534 χ^2/NDF : 2014815.6/33

All: 9592.891 $\pm$ 1.110 χ^2/NDF : 3824396.9/64

asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected



Right In: 7481.770 $\pm$ 3330.915 χ^2 /NDF: 14.0/15

Left Out: 1600.441 $\pm$ 3043.513 χ^2 /NDF:18.4/15

Right Out: 4338.165 $\pm$ 3242.620 χ^2 /NDF: 14.3/17

Left In: 1989.419 $\pm$ 3089.388 χ^2 /NDF:8.2/14

Left: 1792.020 $\pm$ 2168.126 χ^2 /NDF: 26.6/30

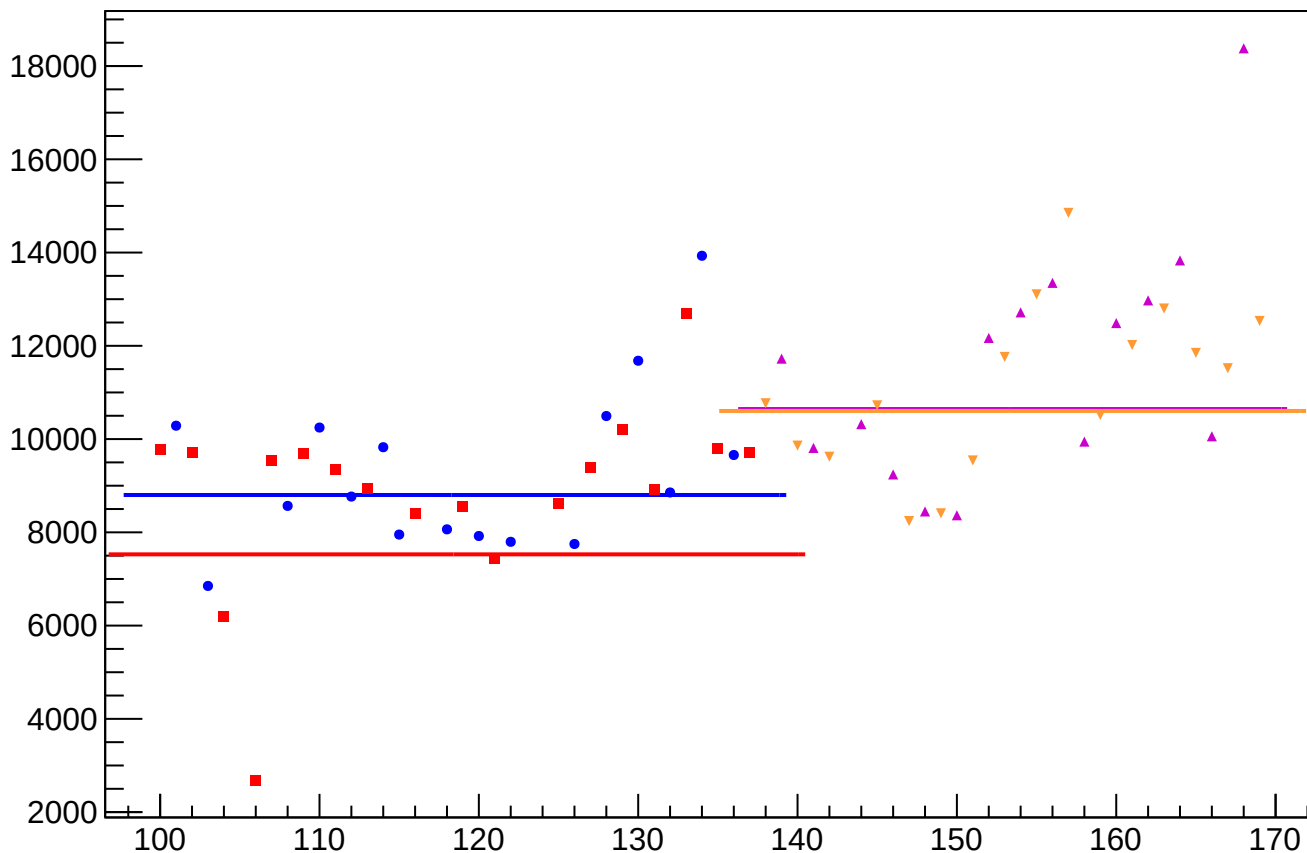
Right: 5867.751 $\pm$ 2323.467 χ^2 /NDF: 28.8/33

In: 4529.268 $\pm$ 2265.105 χ^2 /NDF:23.7/30

Out: 2882.675 $\pm$ 2219.141 χ^2 /NDF:33.1/33

All: 3689.095 $\pm$ 1585.171 χ^2 /NDF: 57.1/64

asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected



Right In: 8801.075+/-2.355 χ^2/NDF : 394575.1/15

Left Out: 10602.828+/-2.152 χ^2/NDF : 629271.8/15

Right Out: 7527.803+/-2.128 χ^2/NDF : 1657299.8/17

Left In: 10644.672+/-2.185 χ^2/NDF : 925465.7/14

Left: 10623.437+/-1.533 χ^2/NDF : 1554923.7/30

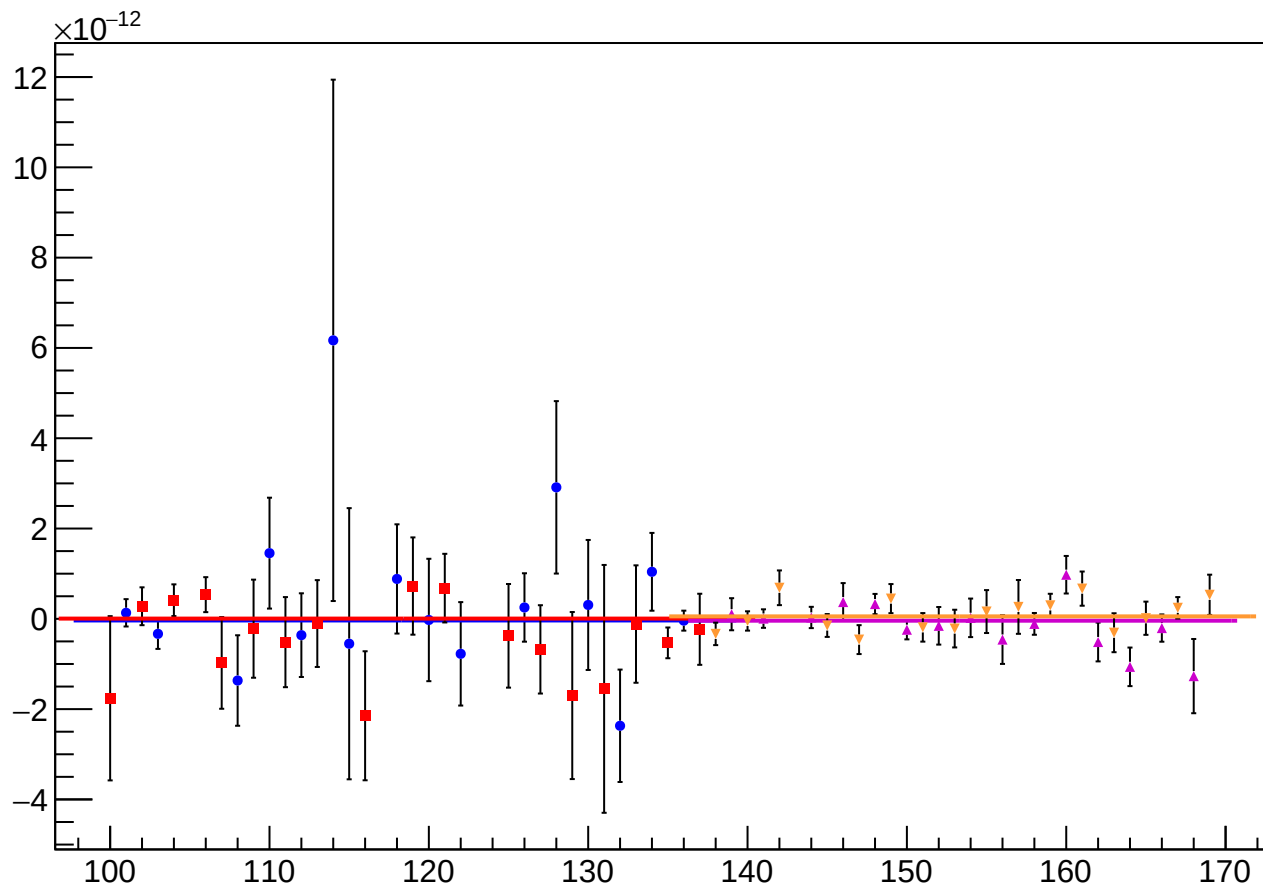
Right: 8100.150+/-1.579 χ^2/NDF : 2212756.1/33

In: 9792.119+/-1.602 χ^2/NDF : 1649401.9/30

Out: 9048.243+/-1.513 χ^2/NDF : 3318721.5/33

All: 9399.093+/-1.100 χ^2/NDF : 5082090.7/64

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.3/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 17.3/15

Right Out: 0.000 ± 0.000 χ^2/NDF : 13.7/17

Left In: -0.000 ± 0.000 χ^2/NDF : 21.1/14

Left: 0.000 ± 0.000 χ^2/NDF : 39.1/30

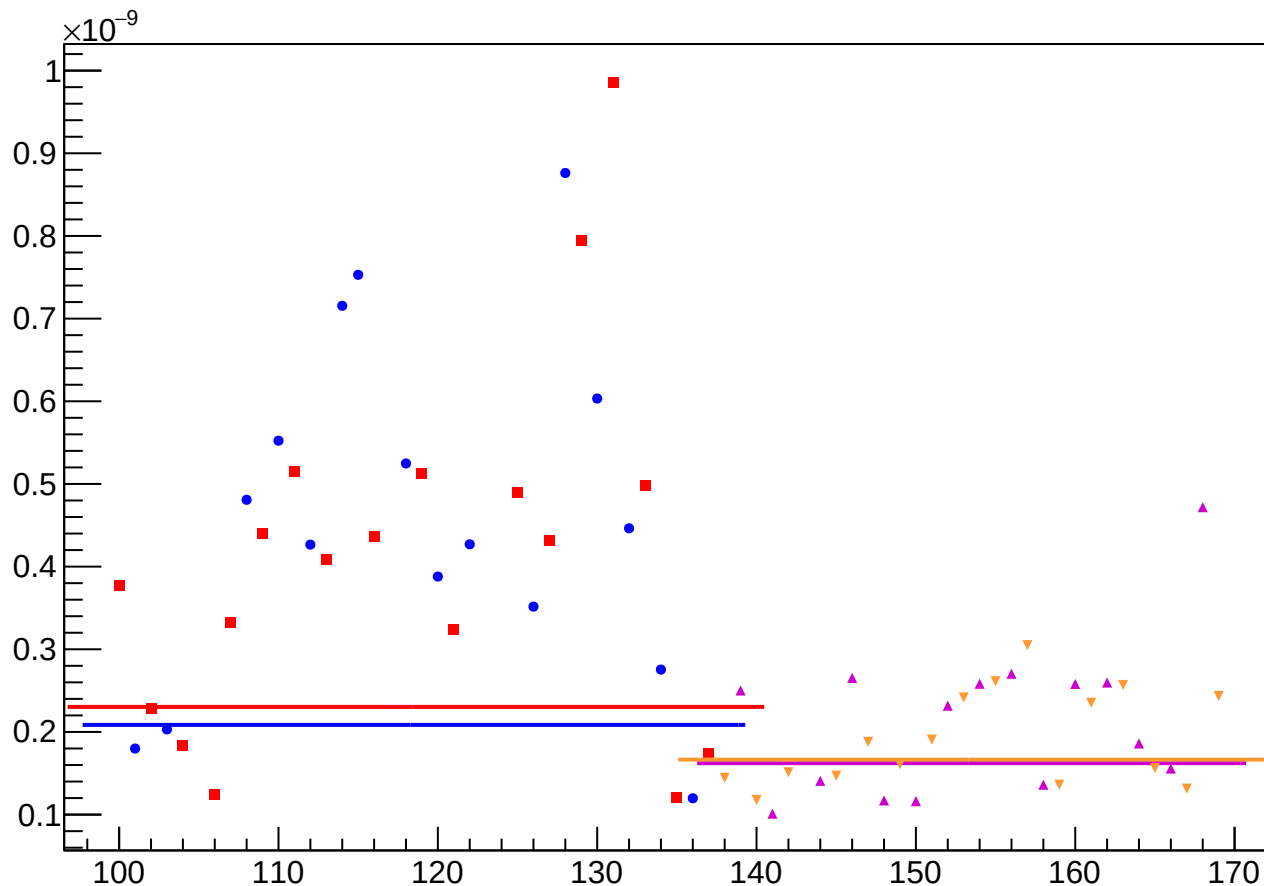
Right: -0.000 ± 0.000 χ^2/NDF : 28.1/33

In: -0.000 ± 0.000 χ^2/NDF : 35.4/30

Out: 0.000 ± 0.000 χ^2/NDF : 31.1/33

All: 0.000 ± 0.000 χ^2/NDF : 67.2/64

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1632322.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 695176.5/15

Right Out: 0.000+/-0.000 χ^2/NDF : 1561654.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 1371163.7/14

Left: 0.000+/-0.000 χ^2/NDF : 2069298.1/30

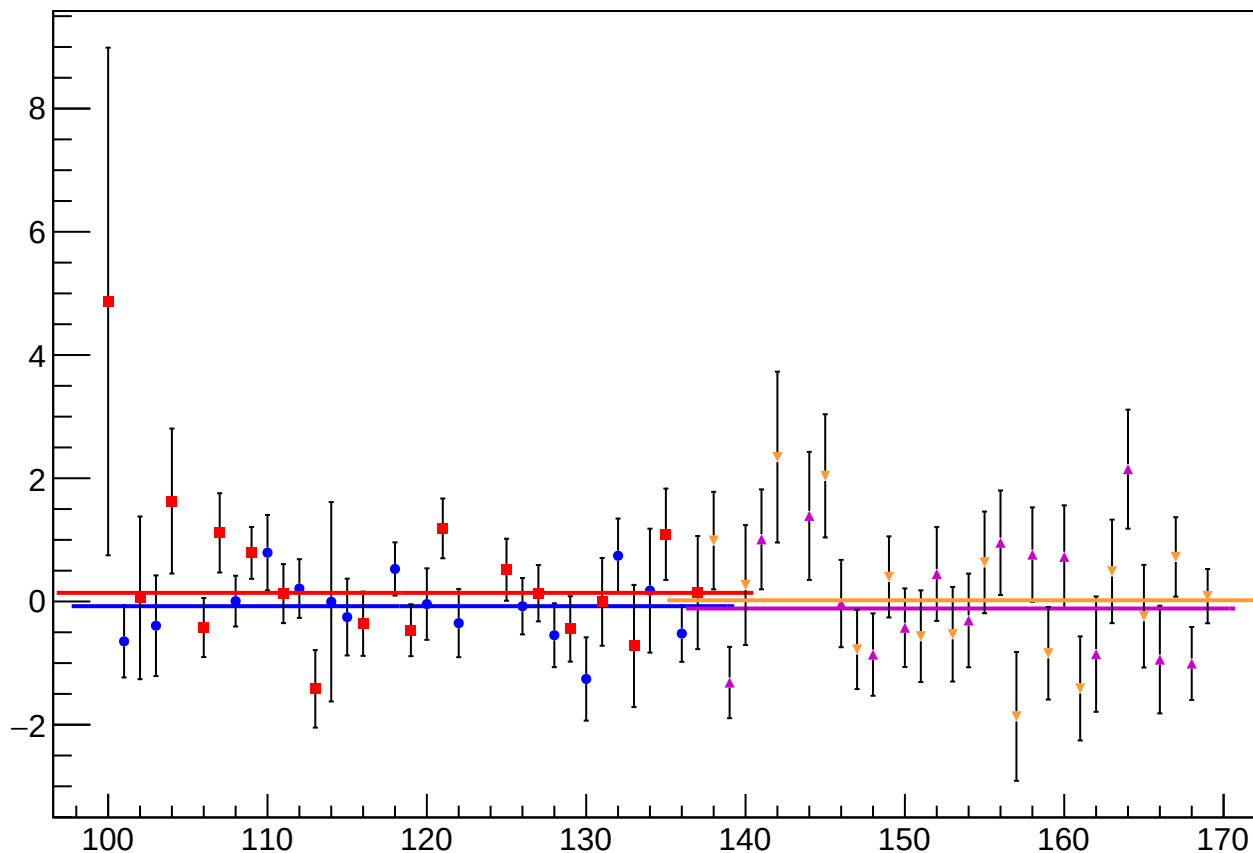
Right: 0.000+/-0.000 χ^2/NDF : 3215206.8/33

In: 0.000+/-0.000 χ^2/NDF : 3165726.6/30

Out: 0.000+/-0.000 χ^2/NDF : 2521259.7/33

All: 0.000+/-0.000 χ^2/NDF : 5694707.5/64

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.076 ± 0.140 χ^2/NDF : 12.5/15

Left Out: 0.019 ± 0.188 χ^2/NDF : 21.0/15

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.114 ± 0.194 χ^2/NDF : 23.6/14

Left: -0.045 ± 0.135 χ^2/NDF : 44.9/30

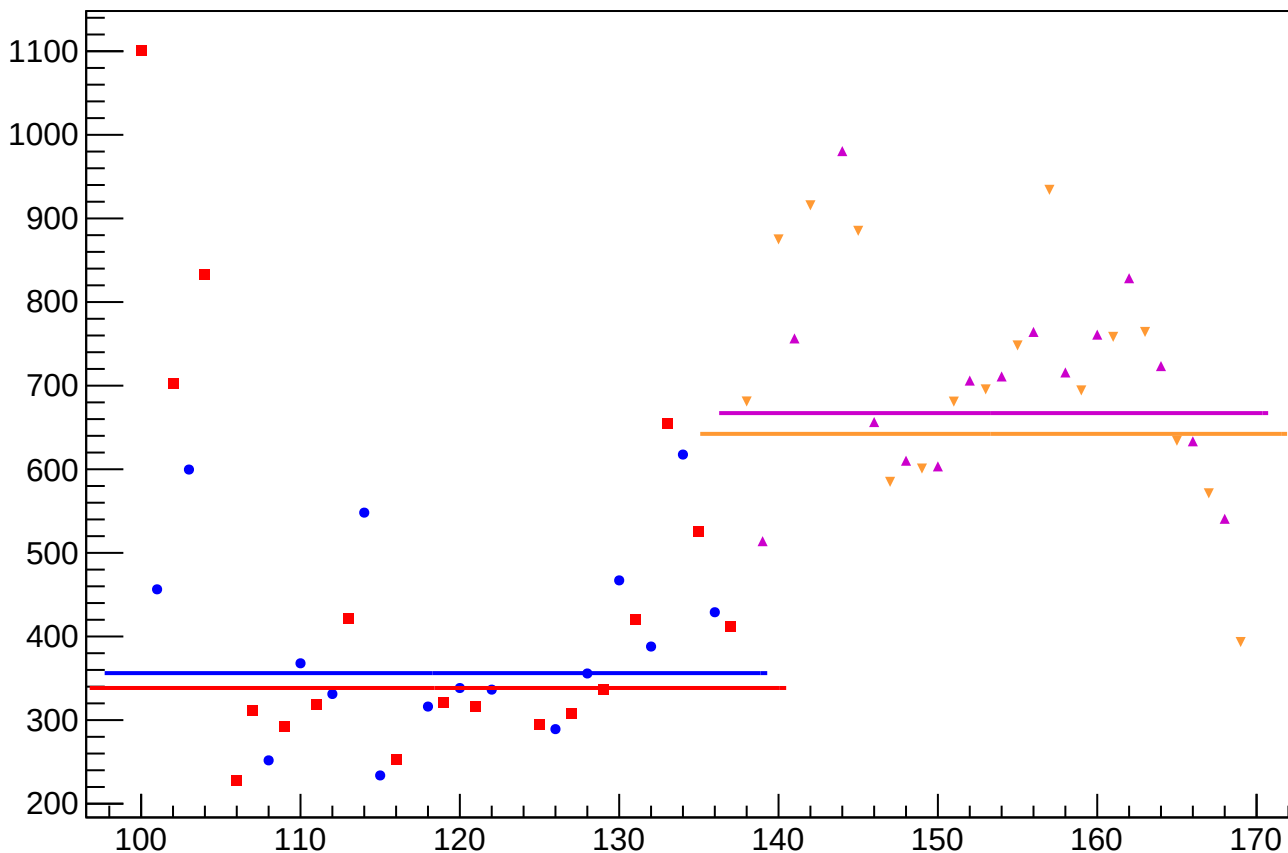
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.089 ± 0.114 χ^2/NDF : 36.1/30

Out: 0.098 ± 0.111 χ^2/NDF : 48.3/33

All: 0.006 ± 0.079 χ^2/NDF : 85.8/64

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 356.190 ± 0.099 $\chi^2/\text{NDF}: 785107.3/15$

Left Out: 642.343 ± 0.133 $\chi^2/\text{NDF}: 1295913.8/15$

Right Out: 338.410 ± 0.098 $\chi^2/\text{NDF}: 1203282.0/17$

Left In: 667.178 ± 0.137 $\chi^2/\text{NDF}: 612397.2/14$

Left: 654.330 ± 0.095 $\chi^2/\text{NDF}: 1925203.0/30$

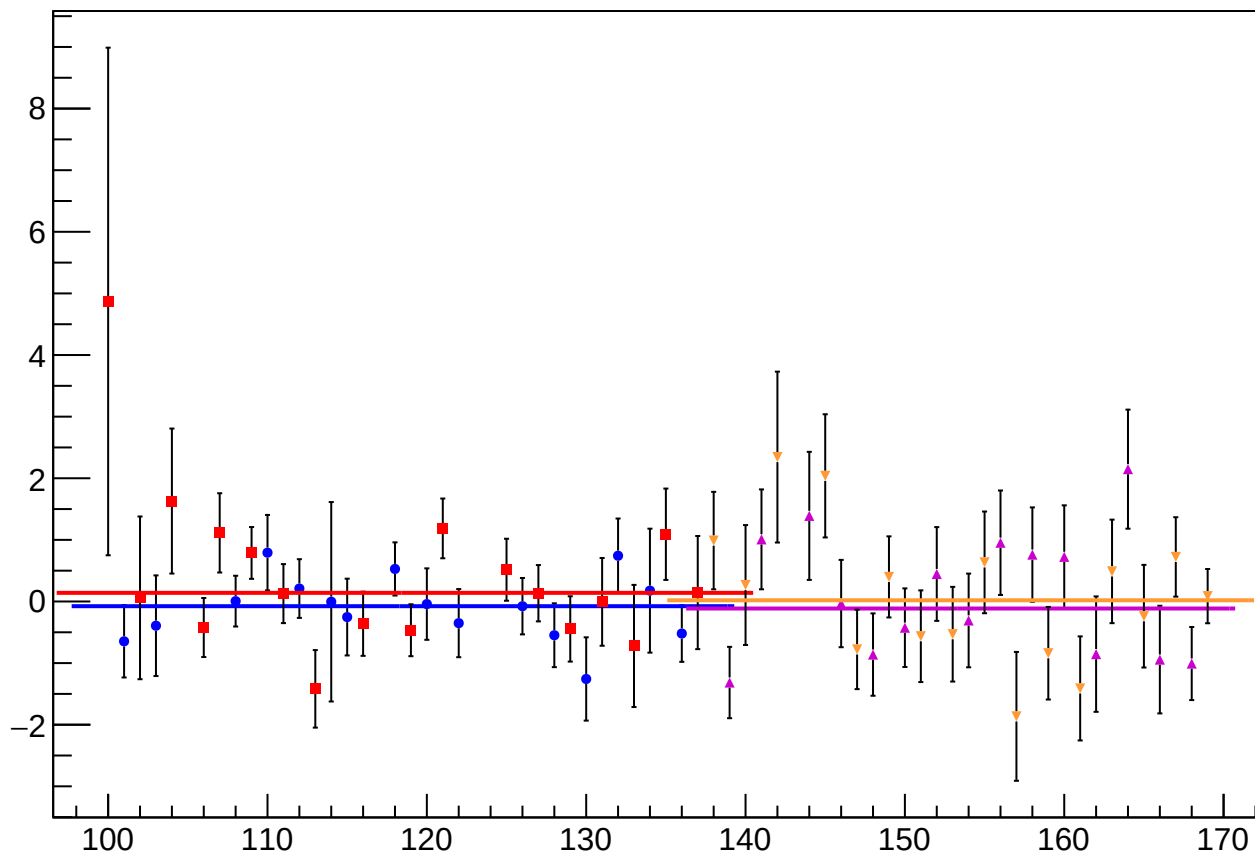
Right: 347.176 ± 0.069 $\chi^2/\text{NDF}: 2004764.4/33$

In: 462.320 ± 0.080 $\chi^2/\text{NDF}: 4770179.8/30$

Out: 444.994 ± 0.079 $\chi^2/\text{NDF}: 5902645.3/33$

All: 453.475 ± 0.056 $\chi^2/\text{NDF}: 10696600.6/64$

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.076 ± 0.140 χ^2/NDF : 12.5/15

Left Out: 0.019 ± 0.188 χ^2/NDF : 21.0/15

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.114 ± 0.194 χ^2/NDF : 23.6/14

Left: -0.045 ± 0.135 χ^2/NDF : 44.9/30

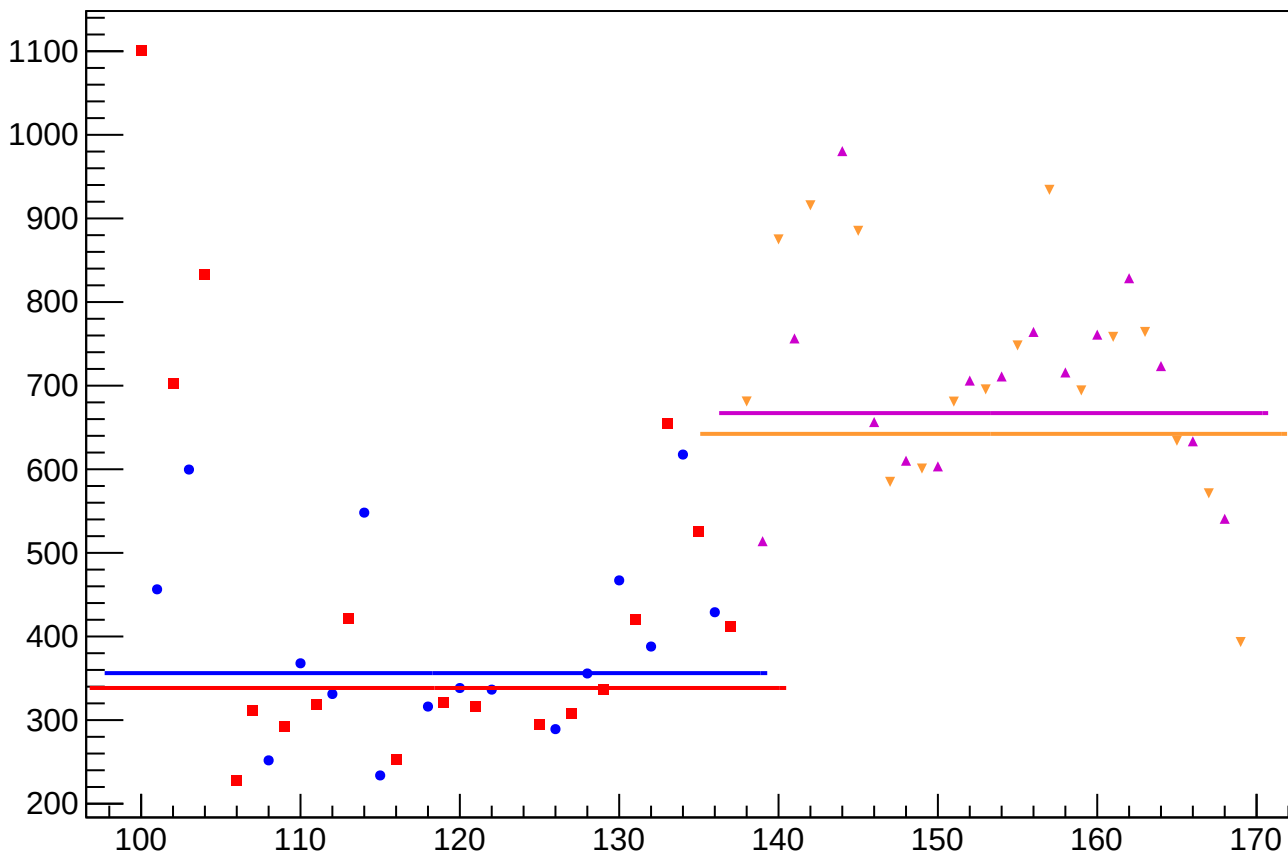
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.089 ± 0.114 χ^2/NDF : 36.1/30

Out: 0.098 ± 0.111 χ^2/NDF : 48.3/33

All: 0.006 ± 0.079 χ^2/NDF : 85.8/64

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 356.190+/-0.099 χ^2/NDF : 785107.3/15

Left Out: 642.343+/-0.133 χ^2/NDF : 1295913.8/15

Right Out: 338.410+/-0.098 χ^2/NDF : 1203282.0/17

Left In: 667.178+/-0.137 χ^2/NDF : 612397.2/14

Left: 654.330+/-0.095 χ^2/NDF : 1925203.0/30

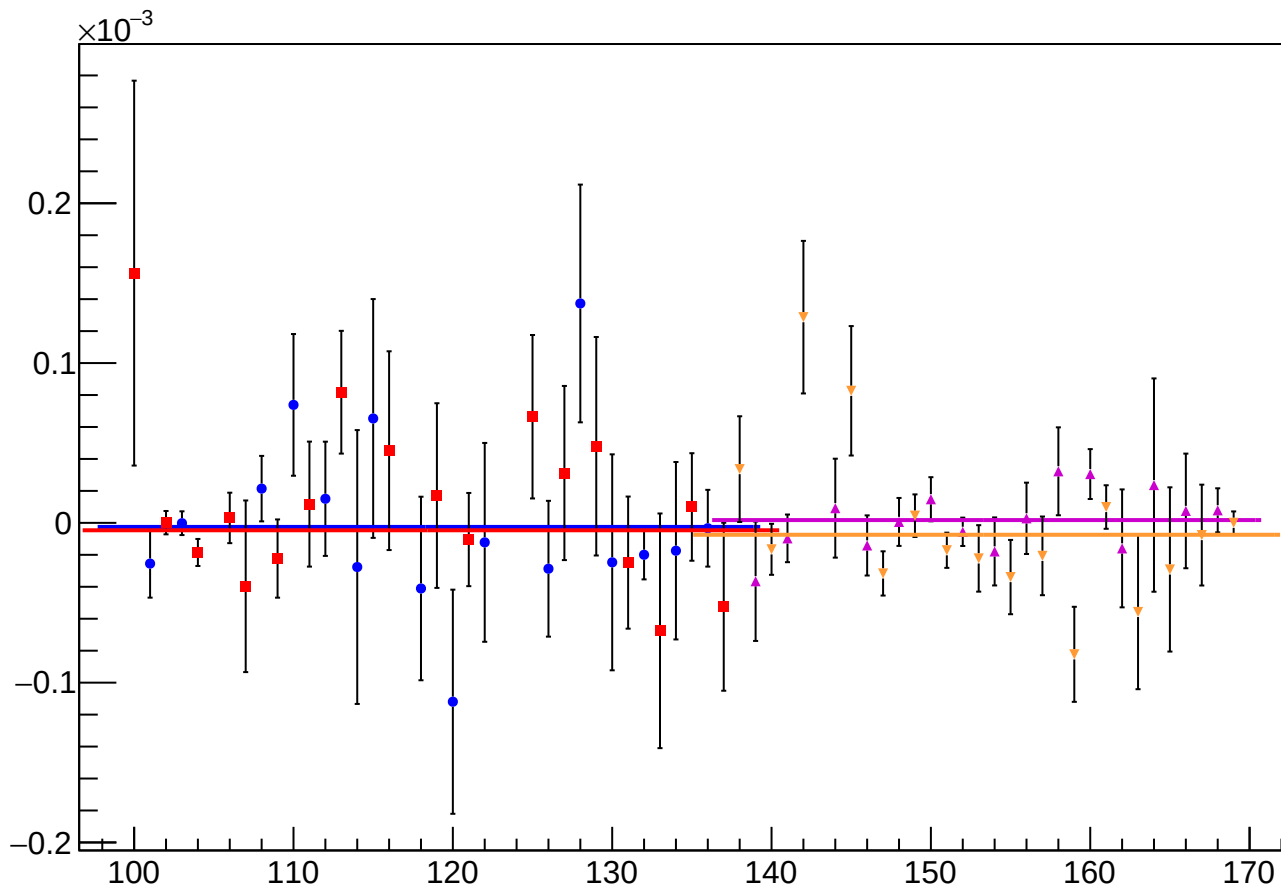
Right: 347.176+/-0.069 χ^2/NDF : 2004764.4/33

In: 462.320+/-0.080 χ^2/NDF : 4770179.8/30

Out: 444.994+/-0.079 χ^2/NDF : 5902645.3/33

All: 453.475+/-0.056 χ^2/NDF : 10696600.6/64

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.0/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:31.9/15

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 17.1/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:10.0/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 44.2/30

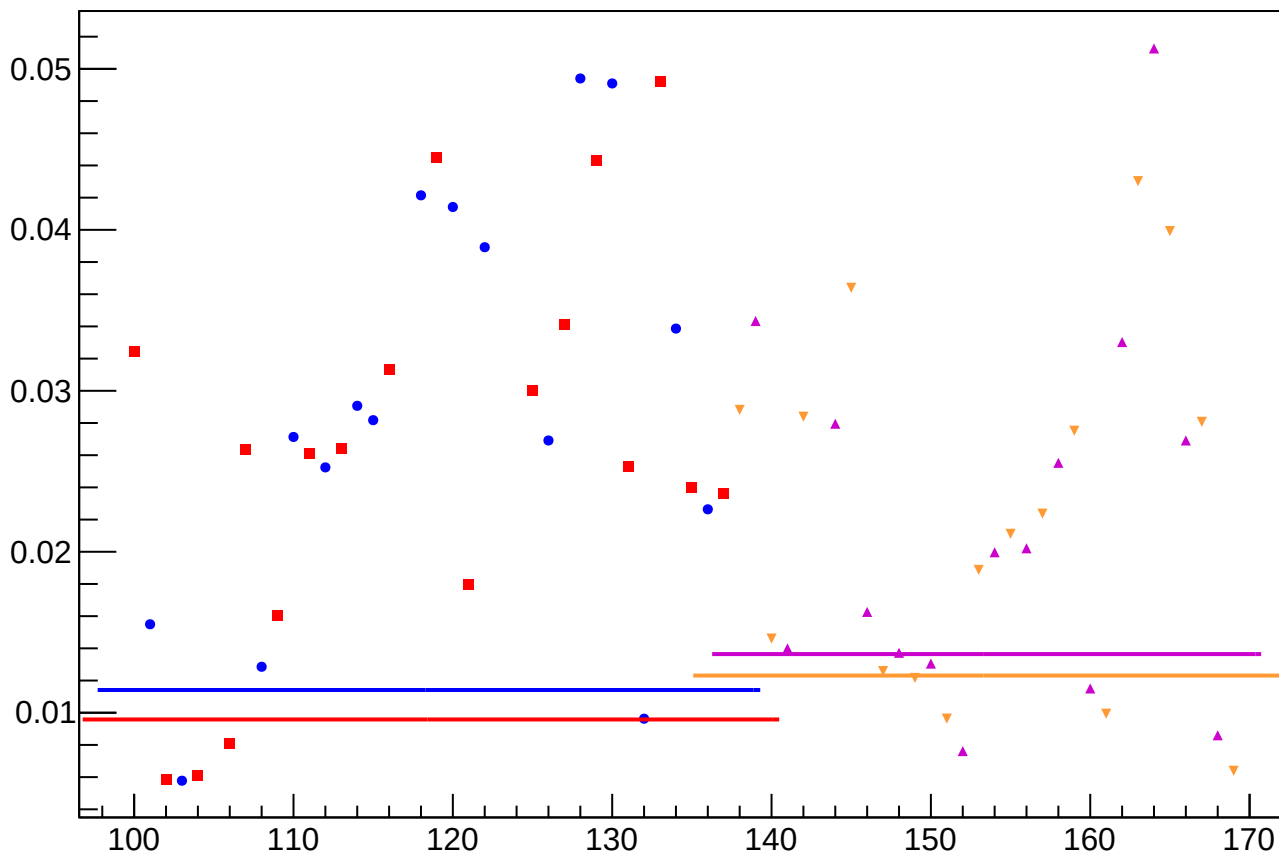
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 32.2/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF:25.4/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:49.2/33

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 76.4/64

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 5500651.2/15

Left Out: 0.012+/-0.000 χ^2/NDF : 6256808.4/15

Right Out: 0.010+/-0.000 χ^2/NDF : 5787700.4/17

Left In: 0.014+/-0.000 χ^2/NDF : 4496545.3/14

Left: 0.013+/-0.000 χ^2/NDF : 10847586.6/30

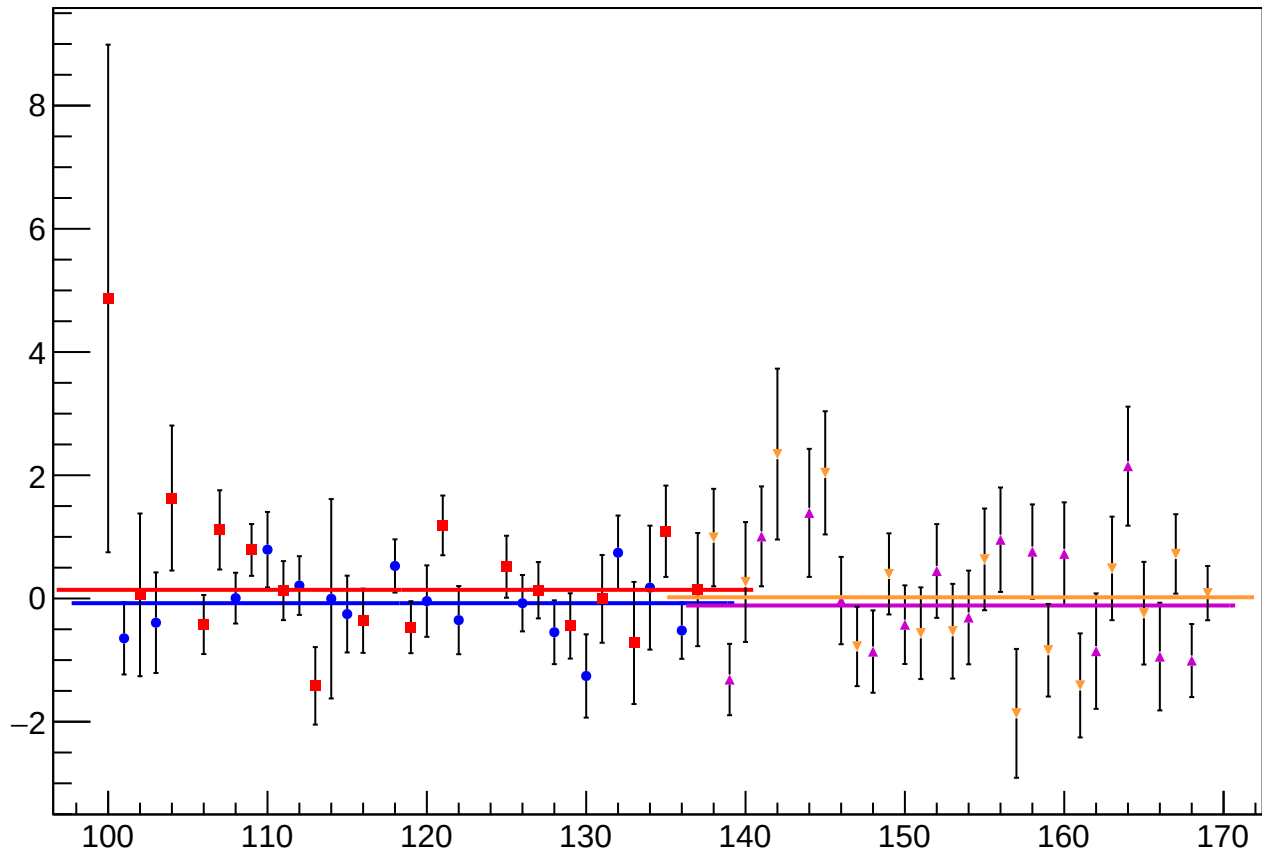
Right: 0.010+/-0.000 χ^2/NDF : 11414181.9/33

In: 0.013+/-0.000 χ^2/NDF : 10189679.9/30

Out: 0.011+/-0.000 χ^2/NDF : 12422989.0/33

All: 0.012+/-0.000 χ^2/NDF : 22849739.6/64

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.076 ± 0.140 χ^2/NDF : 12.5/15

Left Out: 0.019 ± 0.188 χ^2/NDF : 21.0/15

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.114 ± 0.194 χ^2/NDF : 23.6/14

Left: -0.045 ± 0.135 χ^2/NDF : 44.9/30

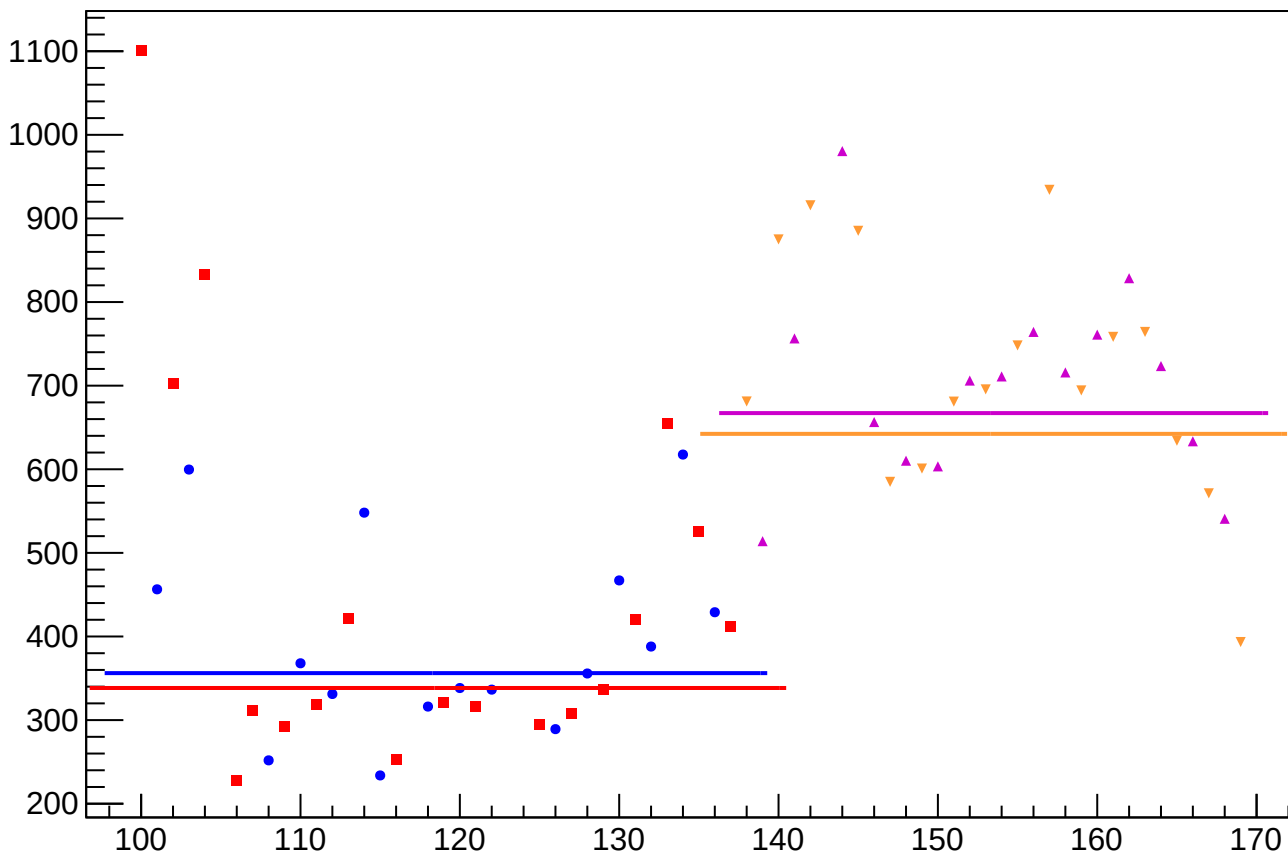
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.089 ± 0.114 χ^2/NDF : 36.1/30

Out: 0.098 ± 0.111 χ^2/NDF : 48.3/33

All: 0.006 ± 0.079 χ^2/NDF : 85.8/64

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 356.188+/-0.099 χ^2/NDF : 785072.9/15

Left Out: 642.350+/-0.133 χ^2/NDF : 1295983.1/15

Right Out: 338.408+/-0.098 χ^2/NDF : 1203260.7/17

Left In: 667.189+/-0.137 χ^2/NDF : 612390.1/14

Left: 654.339+/-0.095 χ^2/NDF : 1925270.2/30

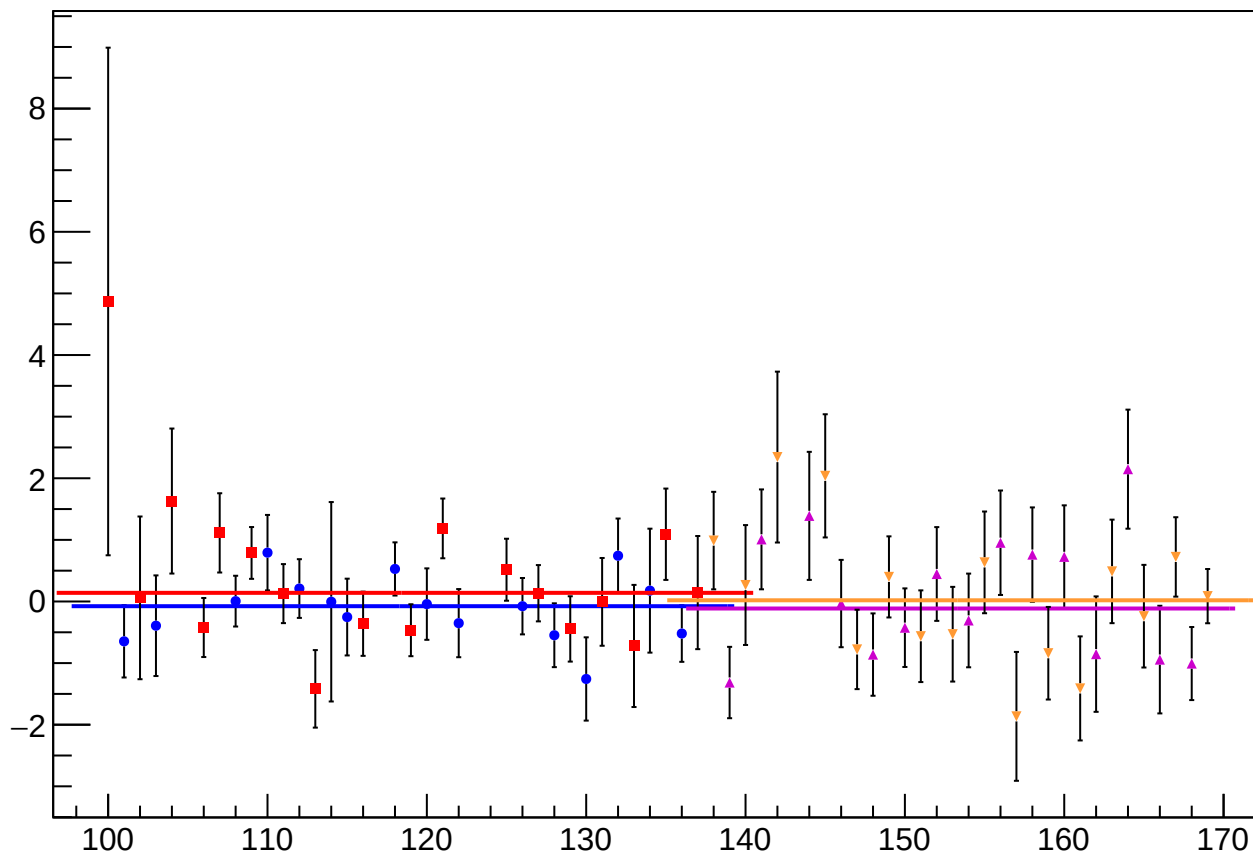
Right: 347.175+/-0.069 χ^2/NDF : 2004710.0/33

In: 462.320+/-0.080 χ^2/NDF : 4770348.9/30

Out: 444.993+/-0.079 χ^2/NDF : 5902861.6/33

All: 453.474+/-0.056 χ^2/NDF : 10696989.7/64

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.076 ± 0.140 χ^2/NDF : 12.5/15

Left Out: 0.019 ± 0.188 χ^2/NDF : 21.0/15

Right Out: 0.140 ± 0.138 χ^2/NDF : 27.0/17

Left In: -0.114 ± 0.194 χ^2/NDF : 23.6/14

Left: -0.045 ± 0.135 χ^2/NDF : 44.9/30

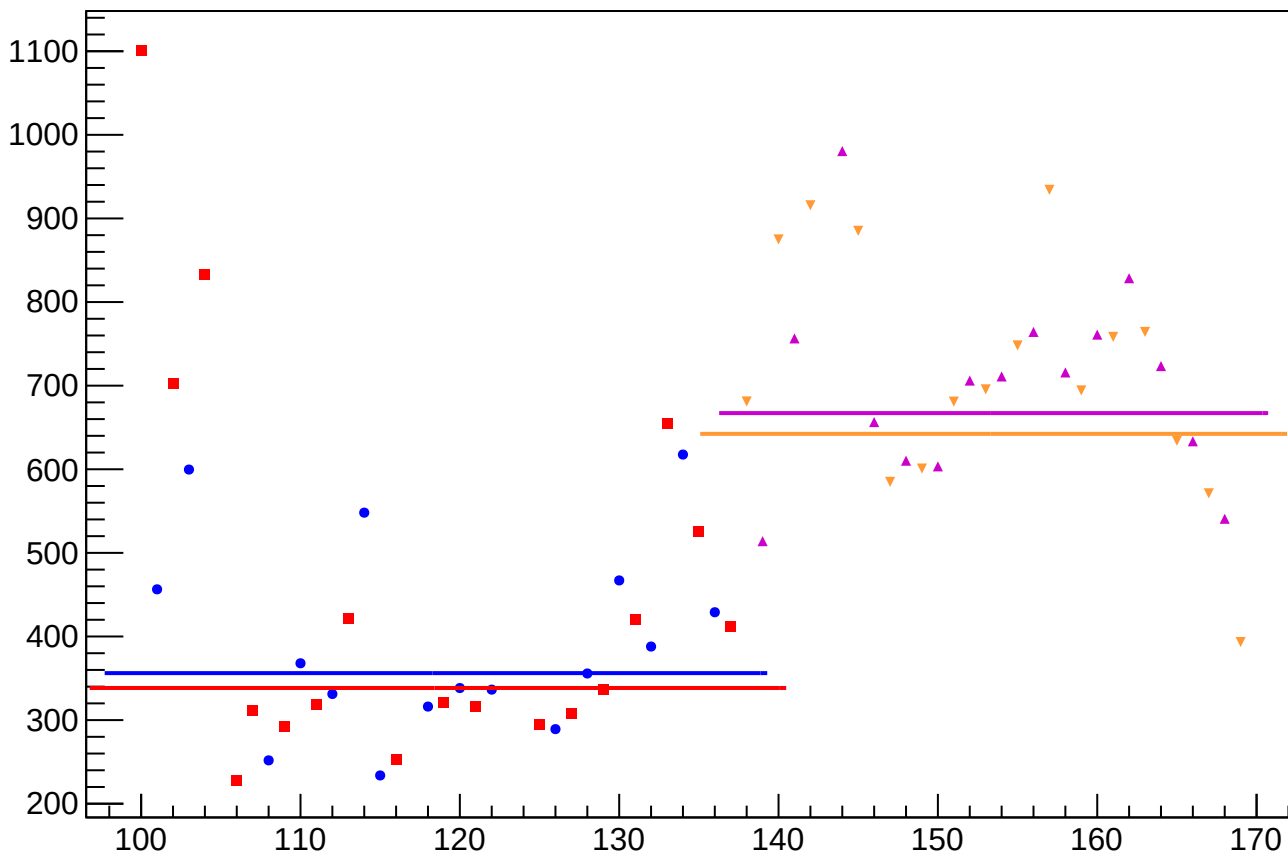
Right: 0.033 ± 0.098 χ^2/NDF : 40.7/33

In: -0.089 ± 0.114 χ^2/NDF : 36.1/30

Out: 0.098 ± 0.111 χ^2/NDF : 48.3/33

All: 0.006 ± 0.079 χ^2/NDF : 85.8/64

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 356.188+/-0.099 χ^2/NDF : 785072.9/15

Left Out: 642.350+/-0.133 χ^2/NDF : 1295983.1/15

Right Out: 338.408+/-0.098 χ^2/NDF : 1203260.7/17

Left In: 667.189+/-0.137 χ^2/NDF : 612390.1/14

Left: 654.339+/-0.095 χ^2/NDF : 1925270.2/30

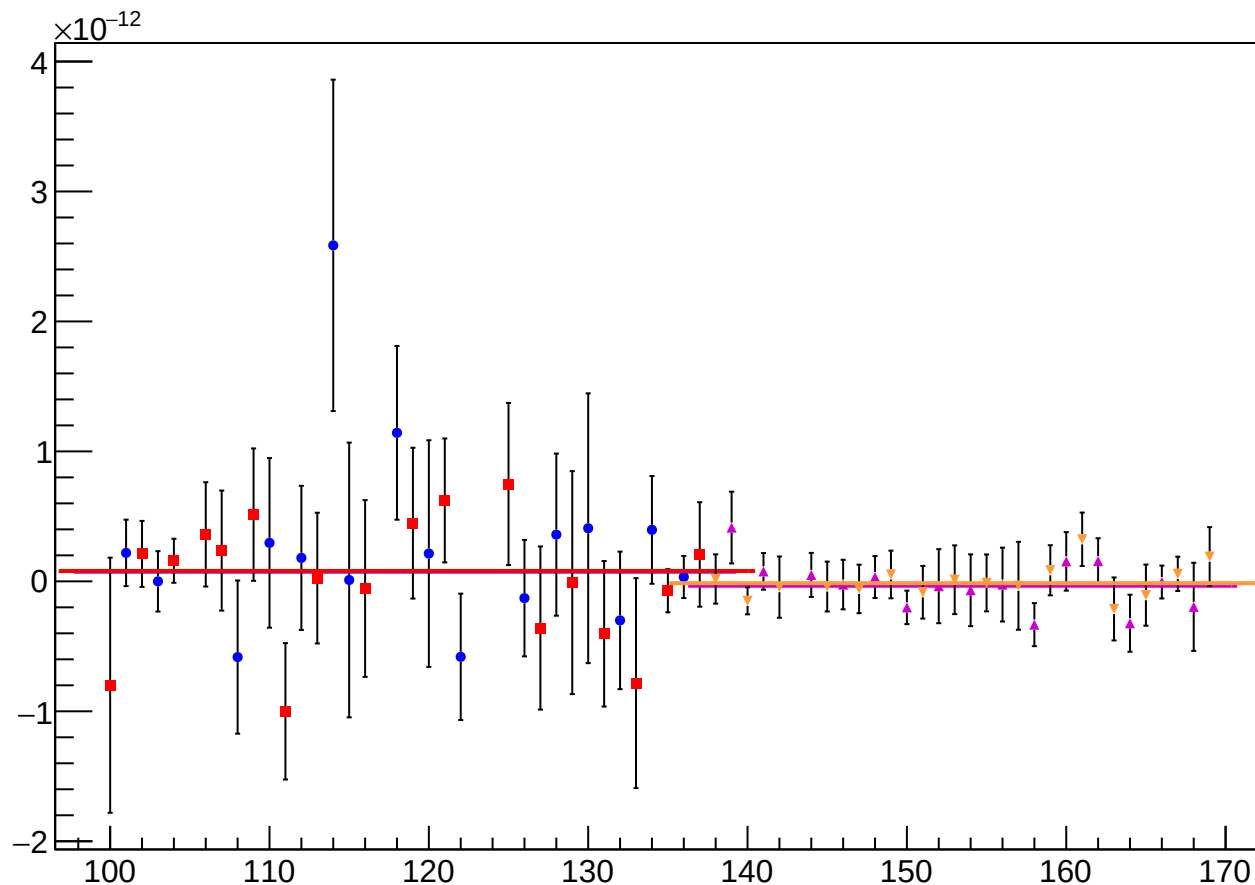
Right: 347.175+/-0.069 χ^2/NDF : 2004710.0/33

In: 462.320+/-0.080 χ^2/NDF : 4770348.9/30

Out: 444.993+/-0.079 χ^2/NDF : 5902861.6/33

All: 453.474+/-0.056 χ^2/NDF : 10696989.7/64

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 7.0/15

Right Out: 0.000+/-0.000 χ^2/NDF : 13.1/17

Left In: -0.000+/-0.000 χ^2/NDF : 12.5/14

Left: -0.000+/-0.000 χ^2/NDF : 19.5/30

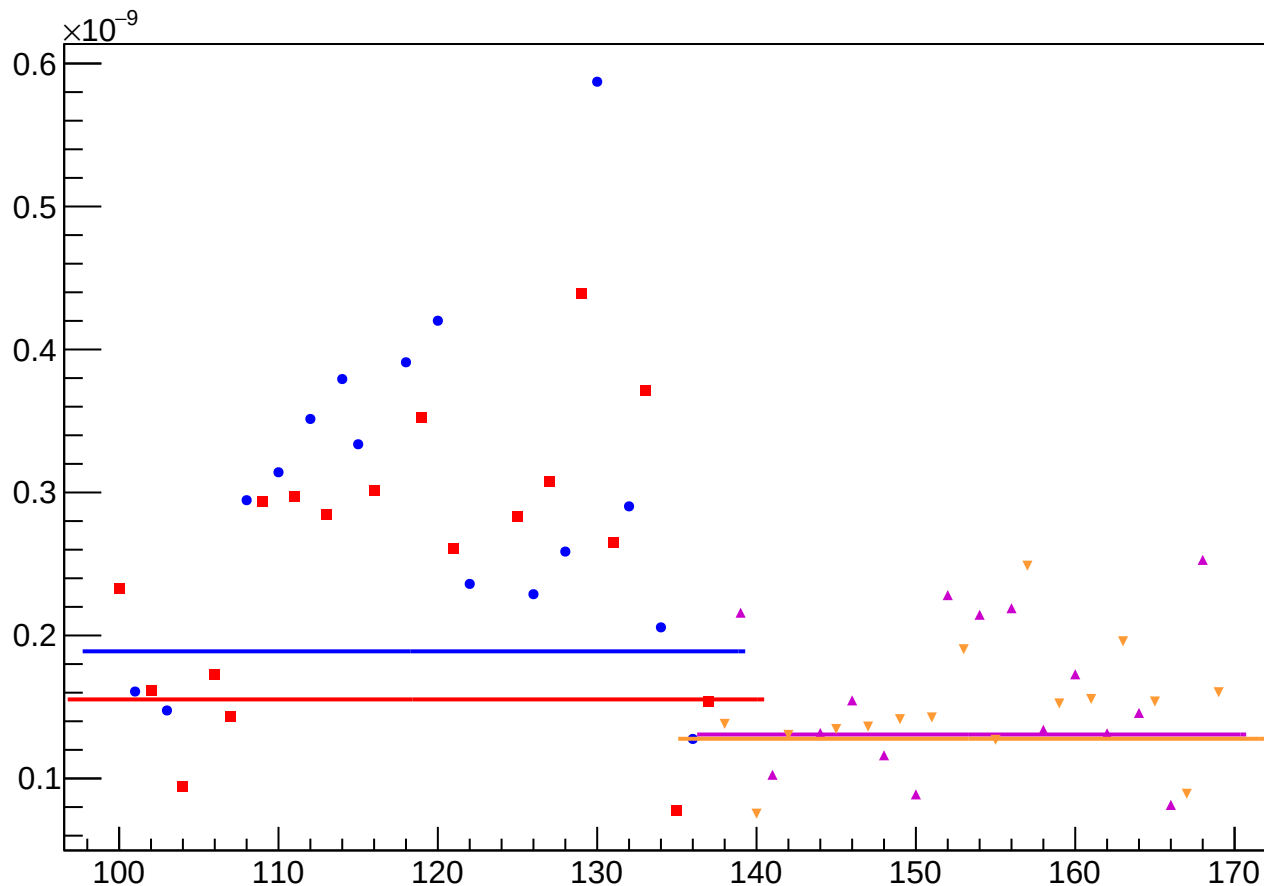
Right: 0.000+/-0.000 χ^2/NDF : 24.9/33

In: -0.000+/-0.000 χ^2/NDF : 25.3/30

Out: 0.000+/-0.000 χ^2/NDF : 21.0/33

All: -0.000+/-0.000 χ^2/NDF : 46.4/64

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1520620.9/15

Left Out: 0.000+/-0.000 χ^2/NDF :1374341.8/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2200687.6/17

Left In: 0.000+/-0.000 χ^2/NDF :1782944.0/14

Left: 0.000+/-0.000 χ^2/NDF : 3161278.5/30

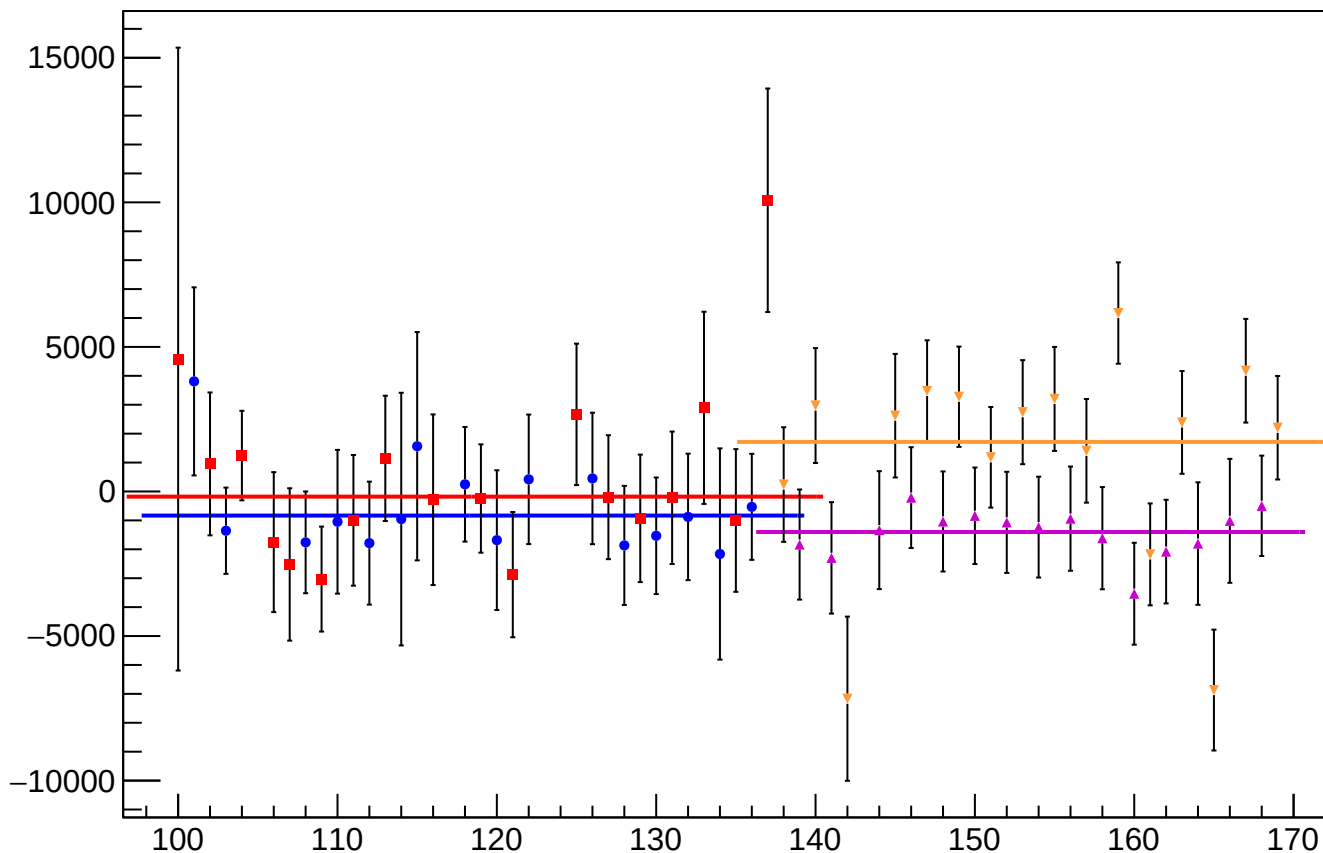
Right: 0.000+/-0.000 χ^2/NDF : 3857679.7/33

In: 0.000+/-0.000 χ^2/NDF :3889663.4/30

Out: 0.000+/-0.000 χ^2/NDF :3734477.5/33

All: 0.000+/-0.000 χ^2/NDF : 7660628.5/64

reg_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -833.479 ± 554.833 $\chi^2/\text{NDF}: 4.6/15$

Left Out: 1715.478 ± 467.023 $\chi^2/\text{NDF}: 44.2/15$

Right Out: -178.292 ± 547.824 $\chi^2/\text{NDF}: 16.5/17$

Left In: -1400.996 ± 471.549 $\chi^2/\text{NDF}: 3.0/14$

Left: 172.268 ± 331.824 $\chi^2/\text{NDF}: 69.2/30$

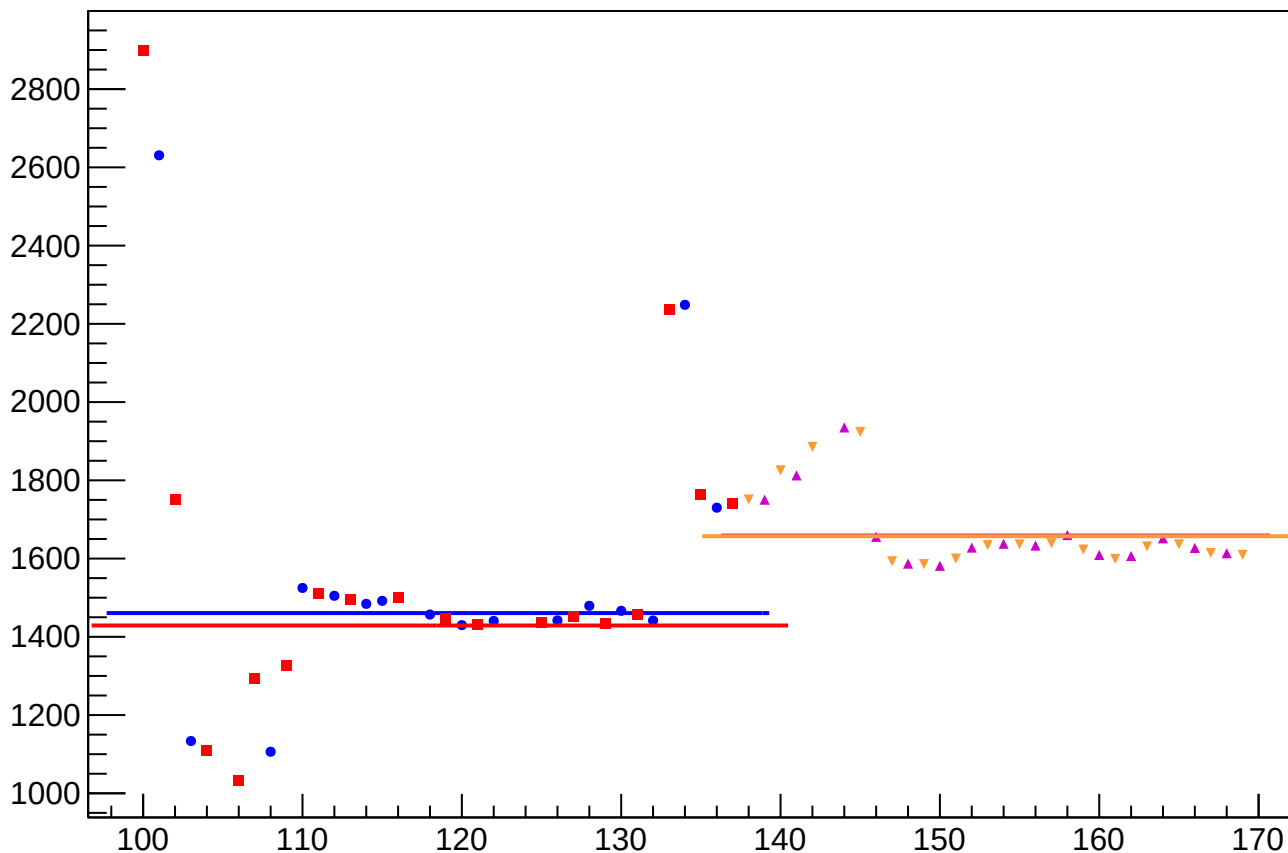
Right: -501.721 ± 389.824 $\chi^2/\text{NDF}: 21.8/33$

In: -1162.987 ± 359.310 $\chi^2/\text{NDF}: 8.2/30$

Out: 918.422 ± 355.403 $\chi^2/\text{NDF}: 67.6/33$

All: -110.904 ± 252.678 $\chi^2/\text{NDF}: 92.7/64$

reg_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1460.653 $\pm$ 0.392 χ^2 /NDF: 575736.1/15

Left Out: 1657.066 $\pm$ 0.330 χ^2 /NDF: 77989.5/15

Right Out: 1428.940 $\pm$ 0.385 χ^2 /NDF: 411275.6/17

Left In: 1658.887 $\pm$ 0.333 χ^2 /NDF: 68246.5/14

Left: 1657.968 $\pm$ 0.235 χ^2 /NDF: 146251.1/30

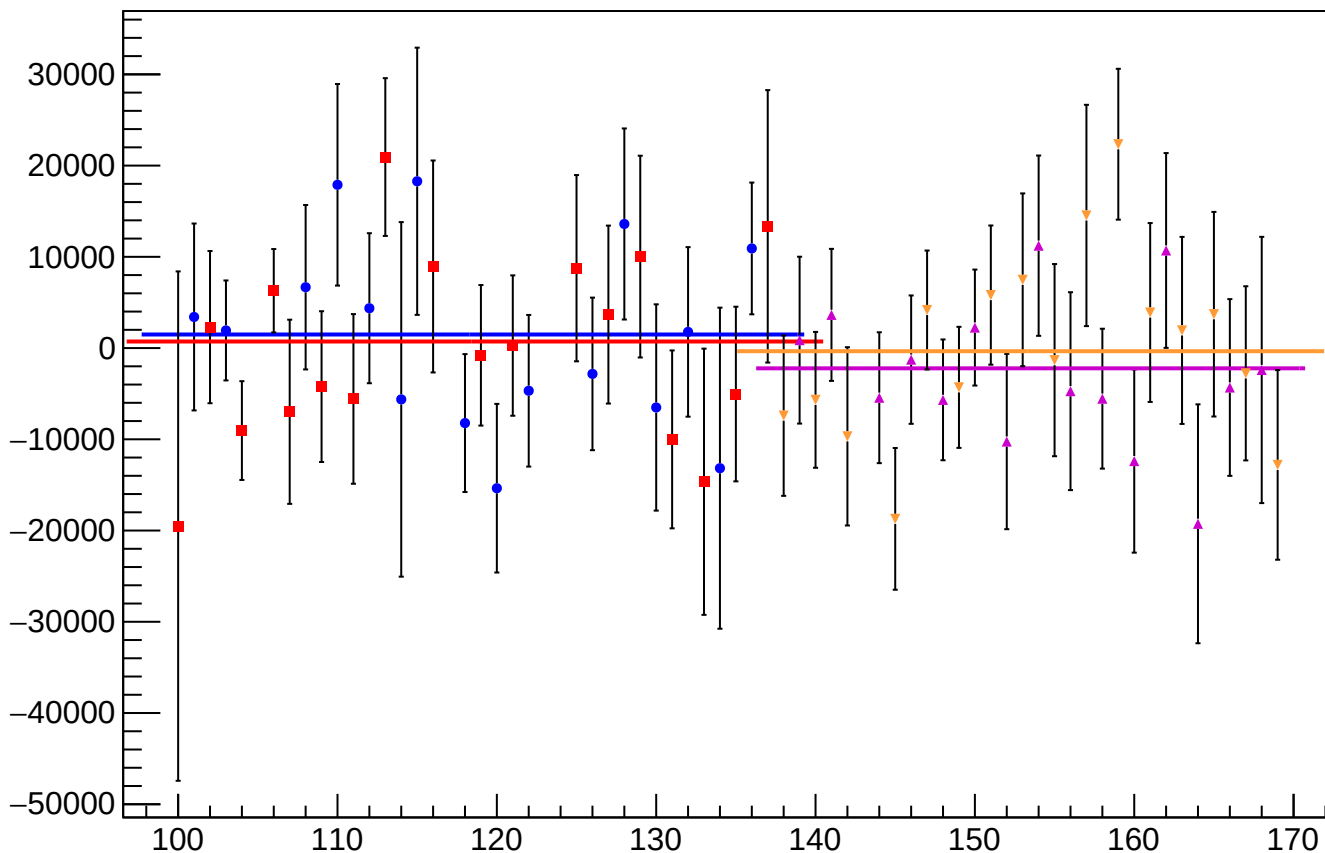
Right: 1444.478 $\pm$ 0.275 χ^2 /NDF: 990344.6/33

In: 1575.750 $\pm$ 0.254 χ^2 /NDF: 792216.0/30

Out: 1560.227 $\pm$ 0.251 χ^2 /NDF: 691837.1/33

All: 1567.879 $\pm$ 0.178 χ^2 /NDF: 1485945.9/64

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 1487.438+/-2268.028 χ^2/NDF : 14.2/15

Left Out: -344.080+/-2175.992 χ^2/NDF :20.7/15

Right Out: 720.166+/-2011.559 χ^2/NDF : 17.5/17

Left In: -2220.843+/-2209.896 χ^2/NDF :8.8/14

Left: -1267.954+/-1550.506 χ^2/NDF : 29.9/30

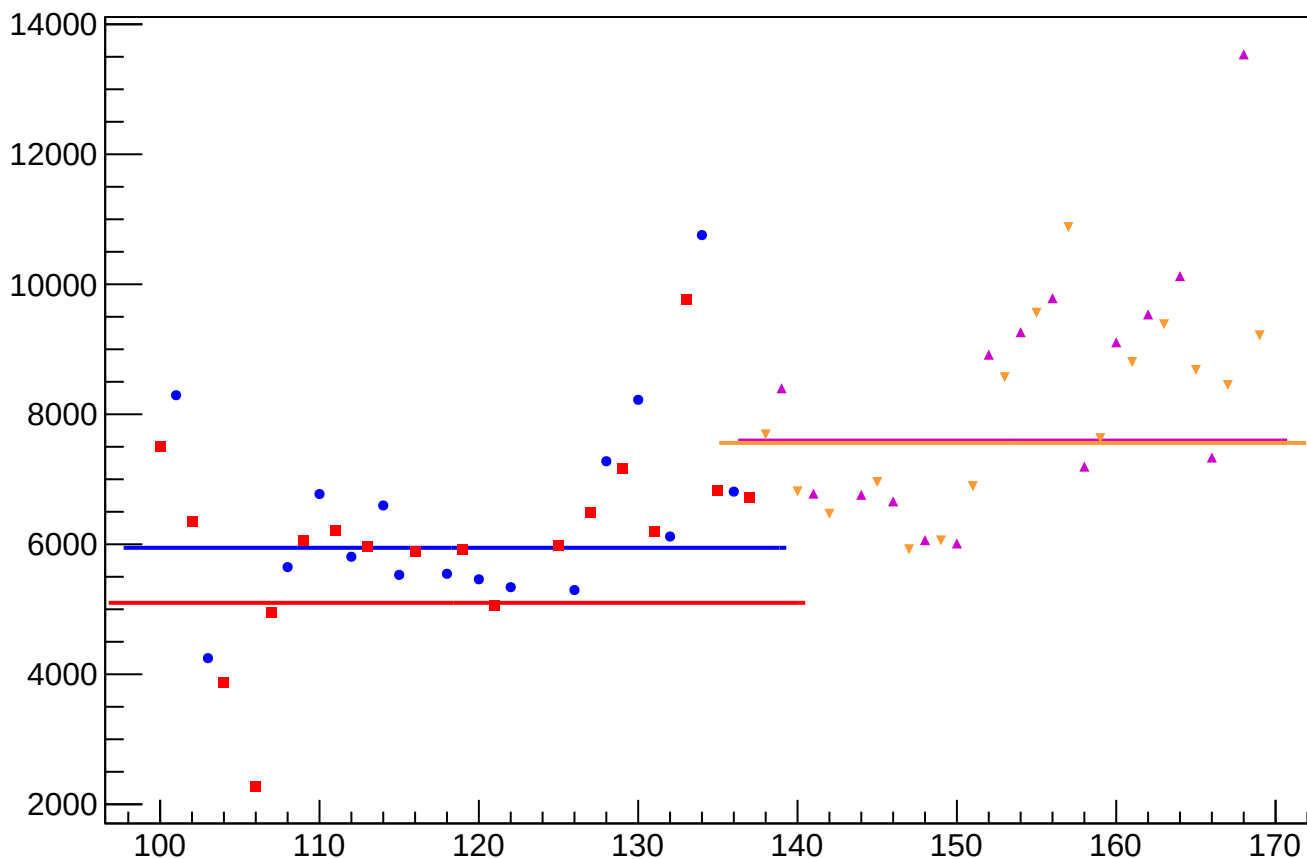
Right: 1057.985+/-1504.928 χ^2/NDF : 31.8/33

In: -414.835+/-1582.785 χ^2/NDF :24.3/30

Out: 229.769+/-1477.101 χ^2/NDF :38.4/33

All: -70.296+/-1079.899 χ^2/NDF : 62.8/64

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 5946.080+/-1.604 χ^2/NDF : 641131.4/15

Left Out: 7559.540+/-1.539 χ^2/NDF : 730278.9/15

Right Out: 5099.375+/-1.422 χ^2/NDF : 1480367.2/17

Left In: 7595.719+/-1.563 χ^2/NDF : 1035486.4/14

Left: 7577.350+/-1.096 χ^2/NDF : 1766037.4/30

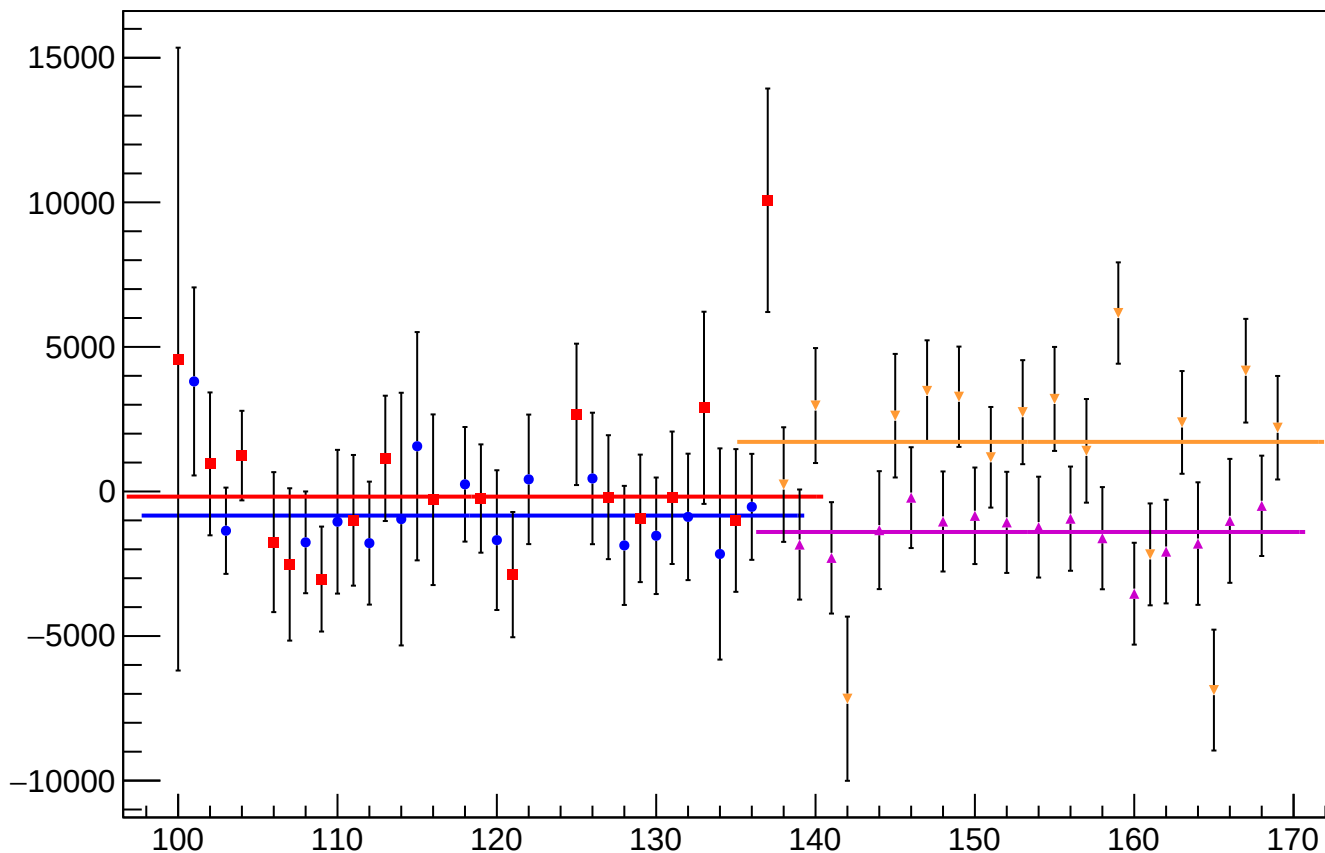
Right: 5472.167+/-1.064 χ^2/NDF : 2277512.7/33

In: 6792.311+/-1.119 χ^2/NDF : 2219381.9/30

Out: 6233.003+/-1.044 χ^2/NDF : 3589123.1/33

All: 6493.362+/-0.764 χ^2/NDF : 5941990.6/64

cor_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -833.542 ± 554.833 $\chi^2/\text{NDF}: 4.6/15$

Left Out: 1715.567 ± 467.023 $\chi^2/\text{NDF}: 44.2/15$

Right Out: -178.133 ± 547.824 $\chi^2/\text{NDF}: 16.5/17$

Left In: -1400.988 ± 471.549 $\chi^2/\text{NDF}: 3.0/14$

Left: 172.317 ± 331.824 $\chi^2/\text{NDF}: 69.2/30$

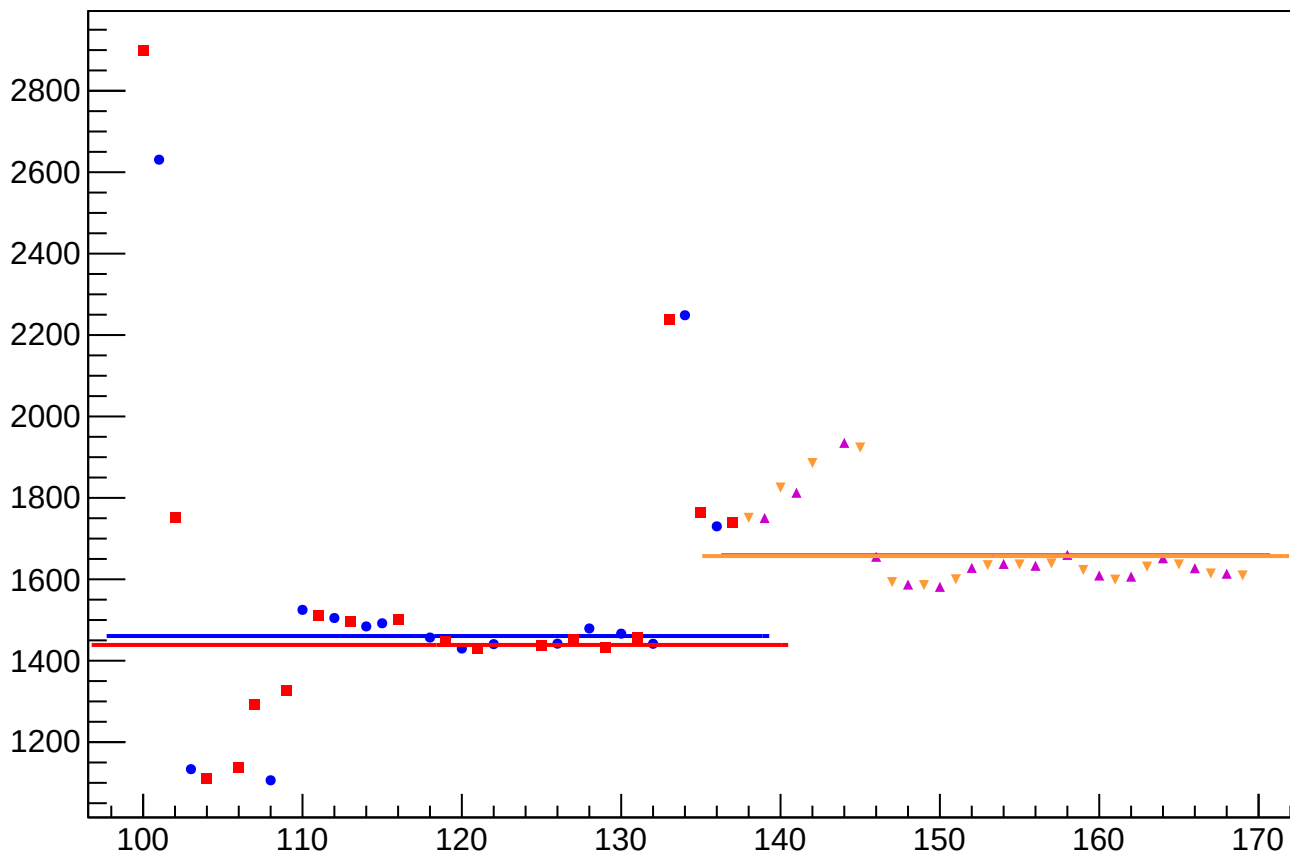
Right: -501.671 ± 389.824 $\chi^2/\text{NDF}: 21.8/33$

In: -1163.009 ± 359.310 $\chi^2/\text{NDF}: 8.2/30$

Out: 918.541 ± 355.403 $\chi^2/\text{NDF}: 67.6/33$

All: -110.855 ± 252.678 $\chi^2/\text{NDF}: 92.7/64$

cor_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1460.653 $\pm$ 0.392 χ^2/NDF : 575736.3/15

Left Out: 1657.066 $\pm$ 0.330 χ^2/NDF : 77989.5/15

Right Out: 1438.764 $\pm$ 0.386 χ^2/NDF : 373375.6/17

Left In: 1658.887 $\pm$ 0.333 χ^2/NDF : 68246.5/14

Left: 1657.968 $\pm$ 0.235 χ^2/NDF : 146251.0/30

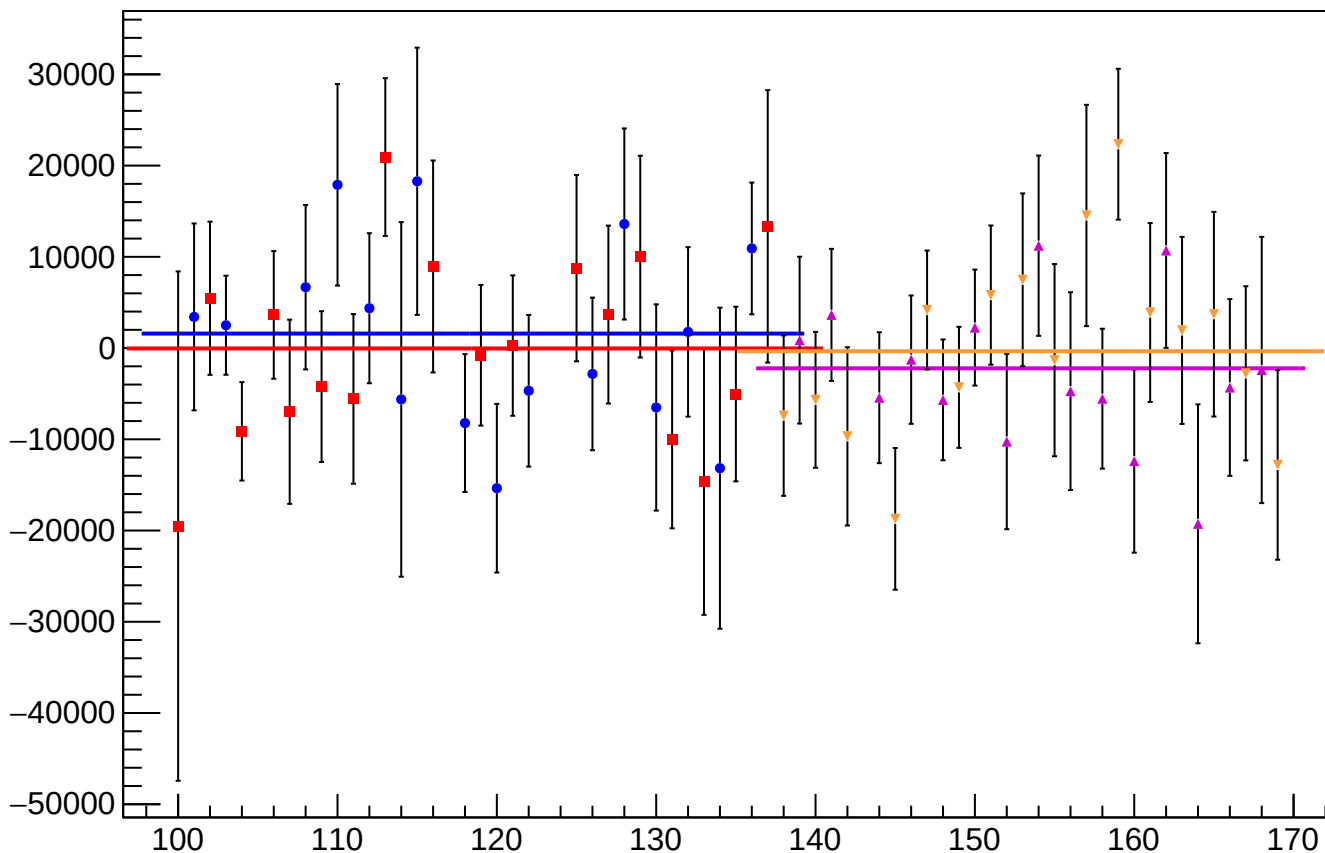
Right: 1449.544 $\pm$ 0.275 χ^2/NDF : 950691.7/33

In: 1575.750 $\pm$ 0.254 χ^2/NDF : 792216.5/30

Out: 1564.943 $\pm$ 0.251 χ^2/NDF : 635773.7/33

All: 1570.282 $\pm$ 0.179 χ^2/NDF : 1428905.7/64

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 1588.655 $\pm$ 2264.260 χ^2 /NDF: 14.2/15

Left Out: -344.058 $\pm$ 2175.991 χ^2 /NDF:20.7/15

Right Out: -40.643 $\pm$ 2133.039 χ^2 /NDF: 16.5/17

Left In: -2220.888 $\pm$ 2209.894 χ^2 /NDF:8.8/14

Left: -1267.966 $\pm$ 1550.506 χ^2 /NDF: 29.9/30

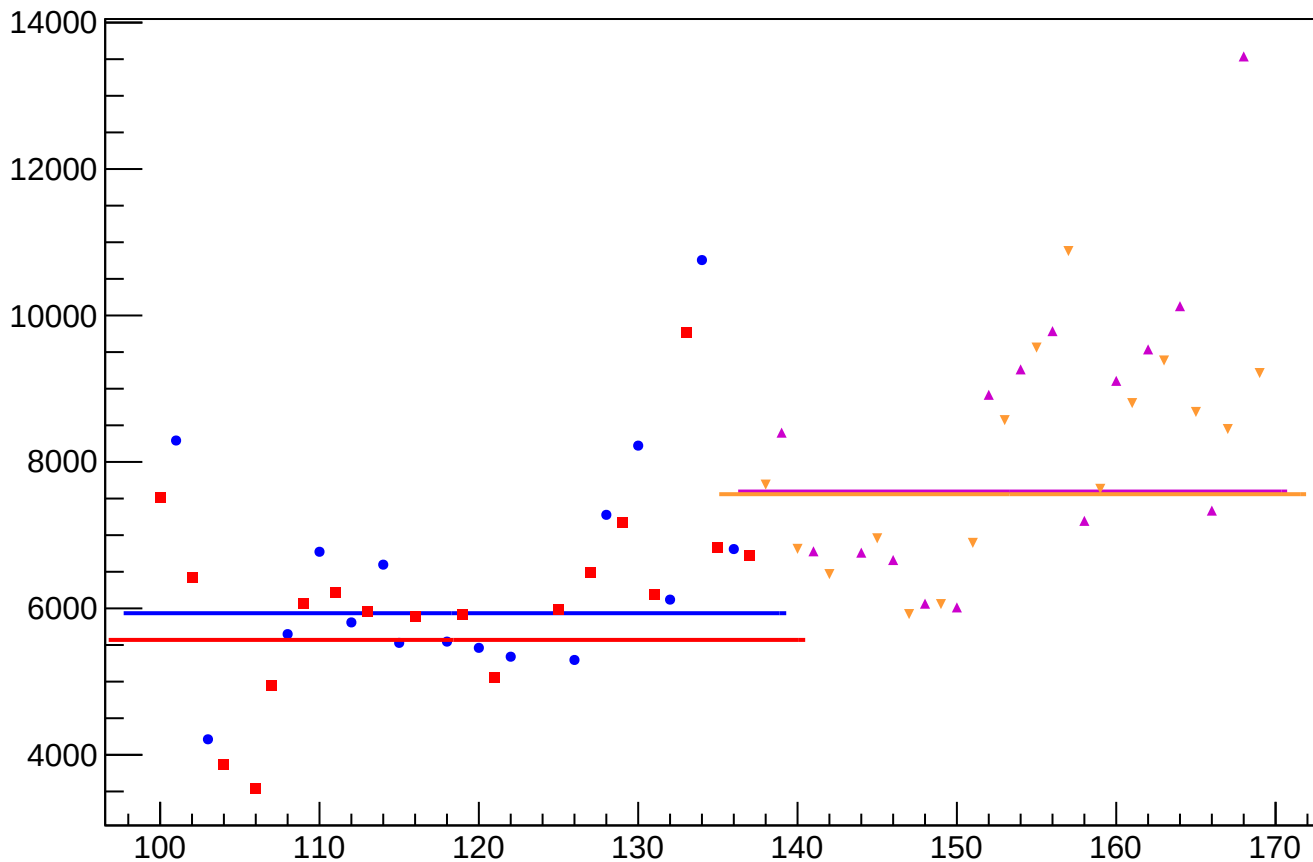
Right: 725.429 $\pm$ 1552.604 χ^2 /NDF: 30.9/33

In: -362.400 $\pm$ 1581.502 χ^2 /NDF:24.4/30

Out: -189.326 $\pm$ 1523.245 χ^2 /NDF:37.2/33

All: -272.617 $\pm$ 1097.114 χ^2 /NDF: 61.7/64

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 5934.209+/-1.601 χ^2/NDF : 653082.9/15

Left Out: 7559.538+/-1.539 χ^2/NDF : 730280.0/15

Right Out: 5569.606+/-1.508 χ^2/NDF : 724048.8/17

Left In: 7595.712+/-1.563 χ^2/NDF : 1035489.4/14

Left: 7577.345+/-1.096 χ^2/NDF : 1766041.5/30

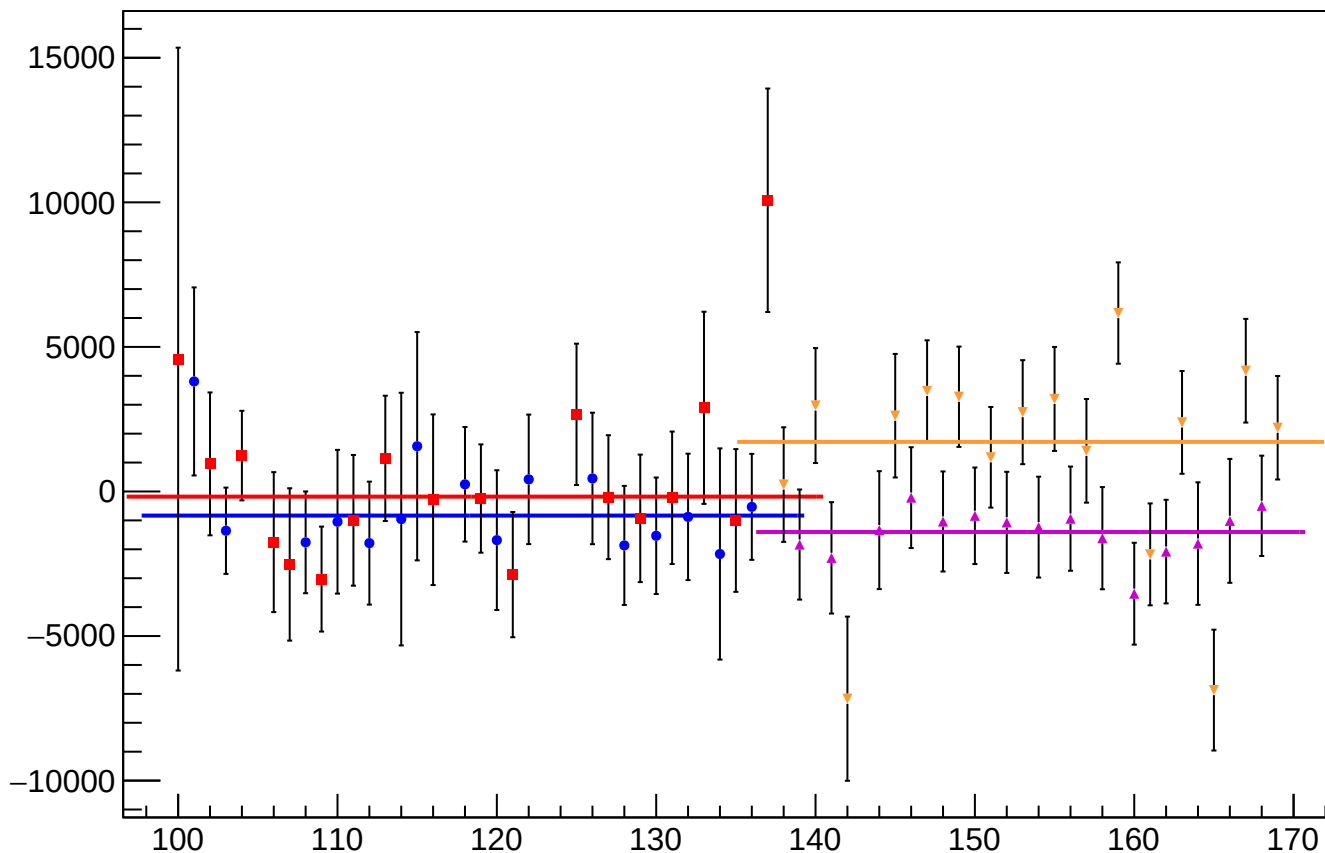
Right: 5741.037+/-1.098 χ^2/NDF : 1404606.9/33

In: 6785.147+/-1.118 χ^2/NDF : 2240111.5/30

Out: 6544.738+/-1.077 χ^2/NDF : 2307299.8/33

All: 6660.433+/-0.776 χ^2/NDF : 4571386.0/64

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -833.542 ± 554.833 $\chi^2/\text{NDF}: 4.6/15$

Left Out: 1715.567 ± 467.023 $\chi^2/\text{NDF}: 44.2/15$

Right Out: -178.133 ± 547.824 $\chi^2/\text{NDF}: 16.5/17$

Left In: -1400.988 ± 471.549 $\chi^2/\text{NDF}: 3.0/14$

Left: 172.317 ± 331.824 $\chi^2/\text{NDF}: 69.2/30$

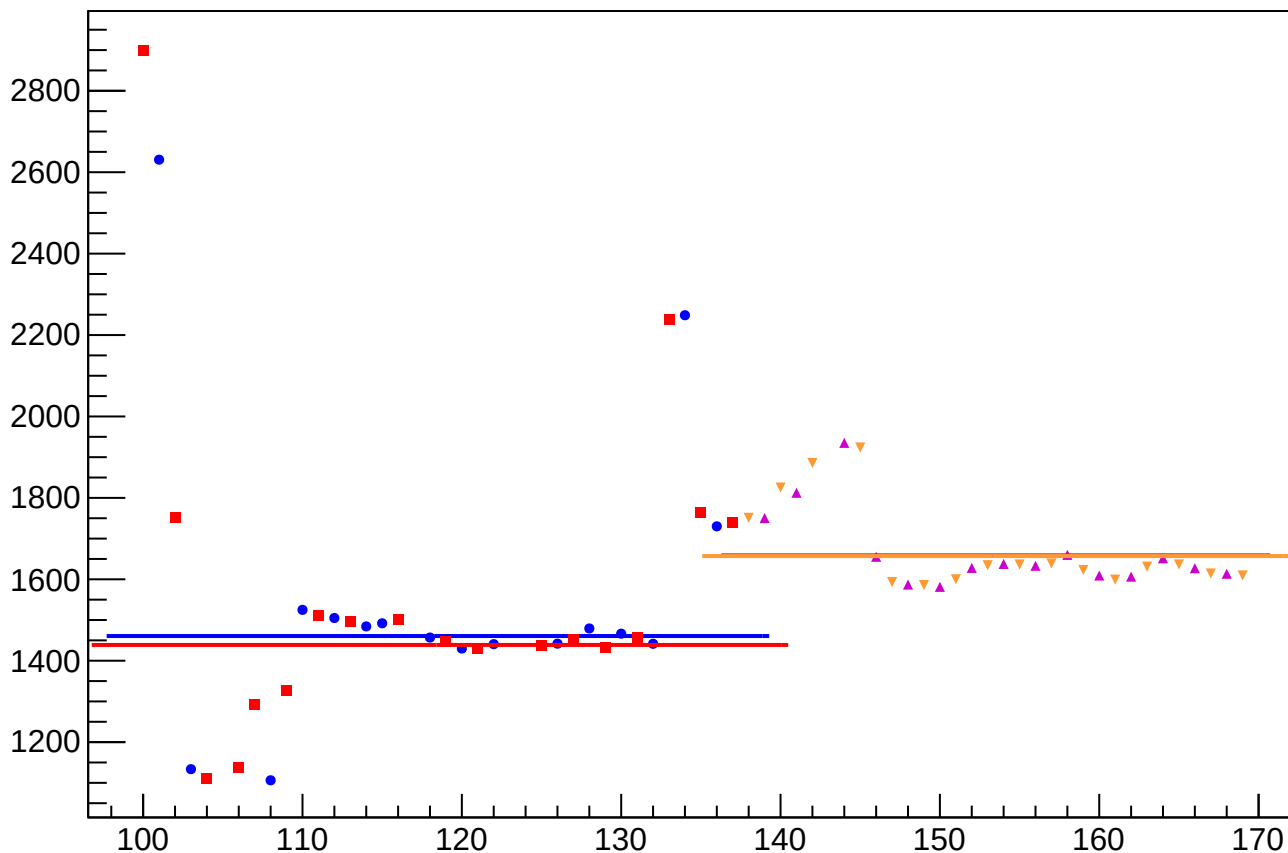
Right: -501.671 ± 389.824 $\chi^2/\text{NDF}: 21.8/33$

In: -1163.009 ± 359.310 $\chi^2/\text{NDF}: 8.2/30$

Out: 918.541 ± 355.403 $\chi^2/\text{NDF}: 67.6/33$

All: -110.855 ± 252.678 $\chi^2/\text{NDF}: 92.7/64$

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1460.653 $\pm$ 0.392 χ^2/NDF : 575736.3/15

Left Out: 1657.066 $\pm$ 0.330 χ^2/NDF : 77989.5/15

Right Out: 1438.764 $\pm$ 0.386 χ^2/NDF : 373375.6/17

Left In: 1658.887 $\pm$ 0.333 χ^2/NDF : 68246.5/14

Left: 1657.968 $\pm$ 0.235 χ^2/NDF : 146251.0/30

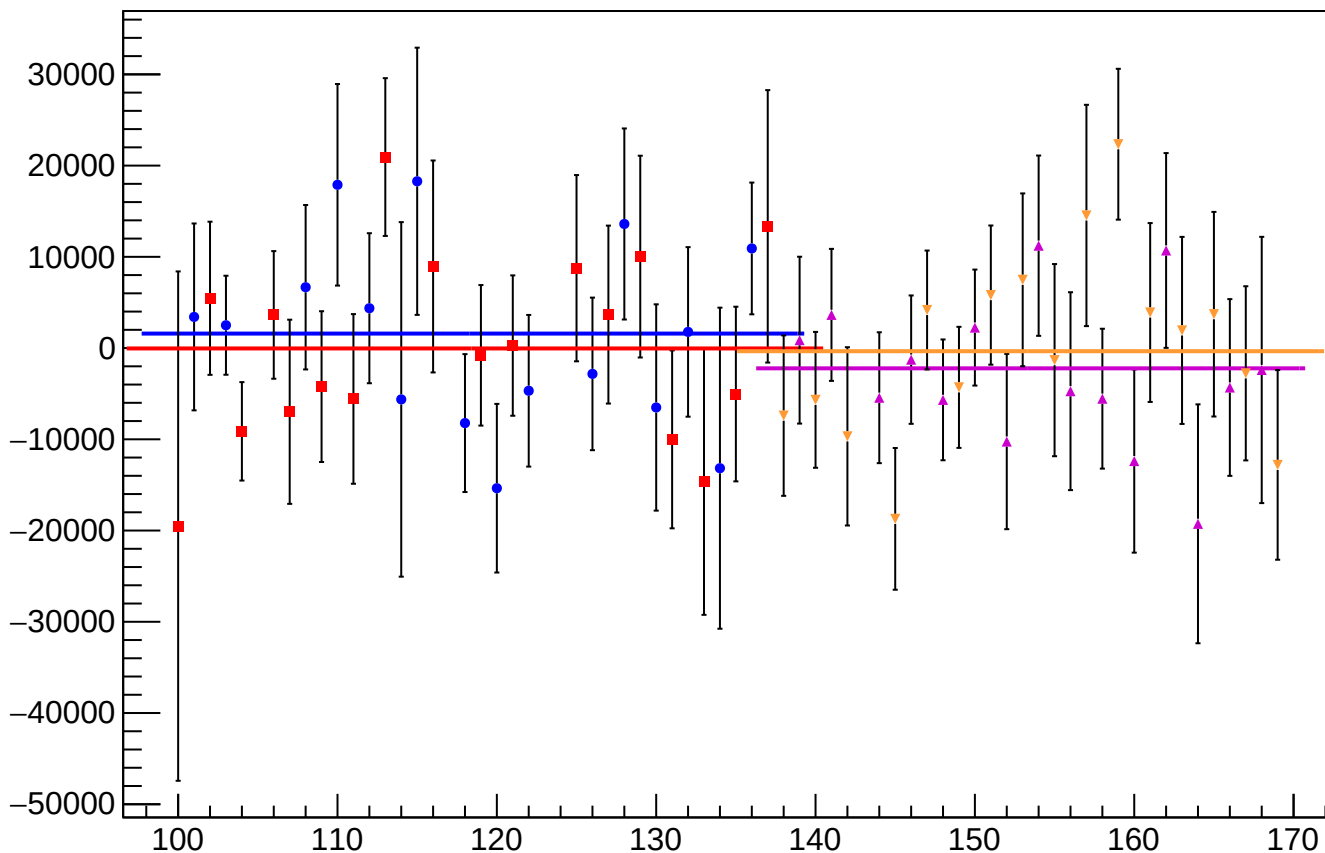
Right: 1449.544 $\pm$ 0.275 χ^2/NDF : 950691.7/33

In: 1575.750 $\pm$ 0.254 χ^2/NDF : 792216.5/30

Out: 1564.943 $\pm$ 0.251 χ^2/NDF : 635773.7/33

All: 1570.282 $\pm$ 0.179 χ^2/NDF : 1428905.7/64

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 1588.655 $\pm$ 2264.260 χ^2 /NDF: 14.2/15

Left Out: -344.058 $\pm$ 2175.991 χ^2 /NDF:20.7/15

Right Out: -40.643 $\pm$ 2133.039 χ^2 /NDF: 16.5/17

Left In: -2220.888 $\pm$ 2209.894 χ^2 /NDF:8.8/14

Left: -1267.966 $\pm$ 1550.506 χ^2 /NDF: 29.9/30

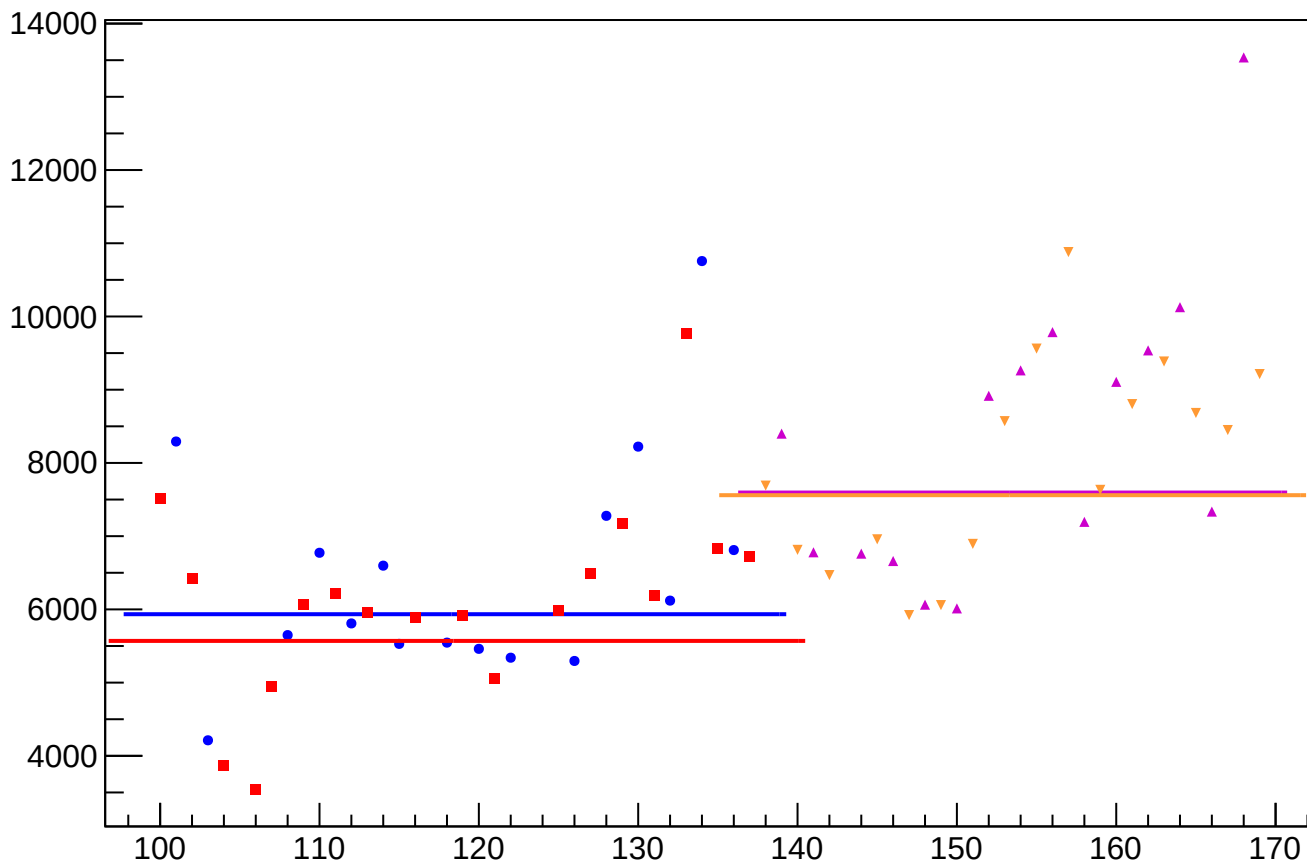
Right: 725.429 $\pm$ 1552.604 χ^2 /NDF: 30.9/33

In: -362.400 $\pm$ 1581.502 χ^2 /NDF:24.4/30

Out: -189.326 $\pm$ 1523.245 χ^2 /NDF:37.2/33

All: -272.617 $\pm$ 1097.114 χ^2 /NDF: 61.7/64

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 5934.209+/-1.601 χ^2/NDF : 653082.9/15

Left Out: 7559.538+/-1.539 χ^2/NDF : 730280.0/15

Right Out: 5569.606+/-1.508 χ^2/NDF : 724048.8/17

Left In: 7595.712+/-1.563 χ^2/NDF : 1035489.4/14

Left: 7577.345+/-1.096 χ^2/NDF : 1766041.5/30

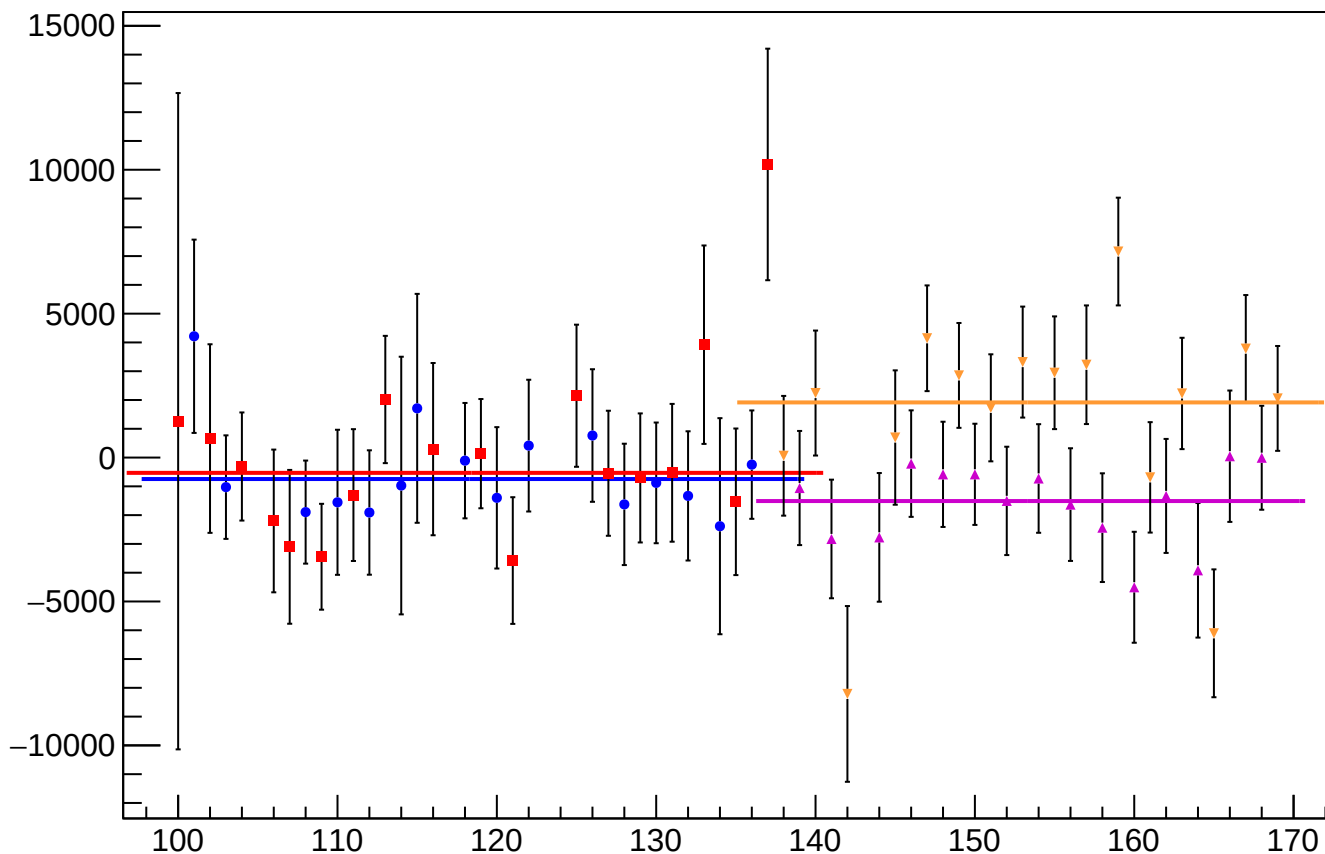
Right: 5741.037+/-1.098 χ^2/NDF : 1404606.9/33

In: 6785.147+/-1.118 χ^2/NDF : 2240111.5/30

Out: 6544.738+/-1.077 χ^2/NDF : 2307299.8/33

All: 6660.433+/-0.776 χ^2/NDF : 4571386.0/64

dit_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -745.914 $\pm$ 578.071 χ^2 /NDF: 4.8/15

Left Out: 1915.997 $\pm$ 499.799 χ^2 /NDF:38.8/15

Right Out: -531.292 $\pm$ 575.115 χ^2 /NDF: 17.7/17

Left In: -1510.772 $\pm$ 505.379 χ^2 /NDF:6.9/14

Left: 221.636 $\pm$ 355.368 χ^2 /NDF: 68.9/30

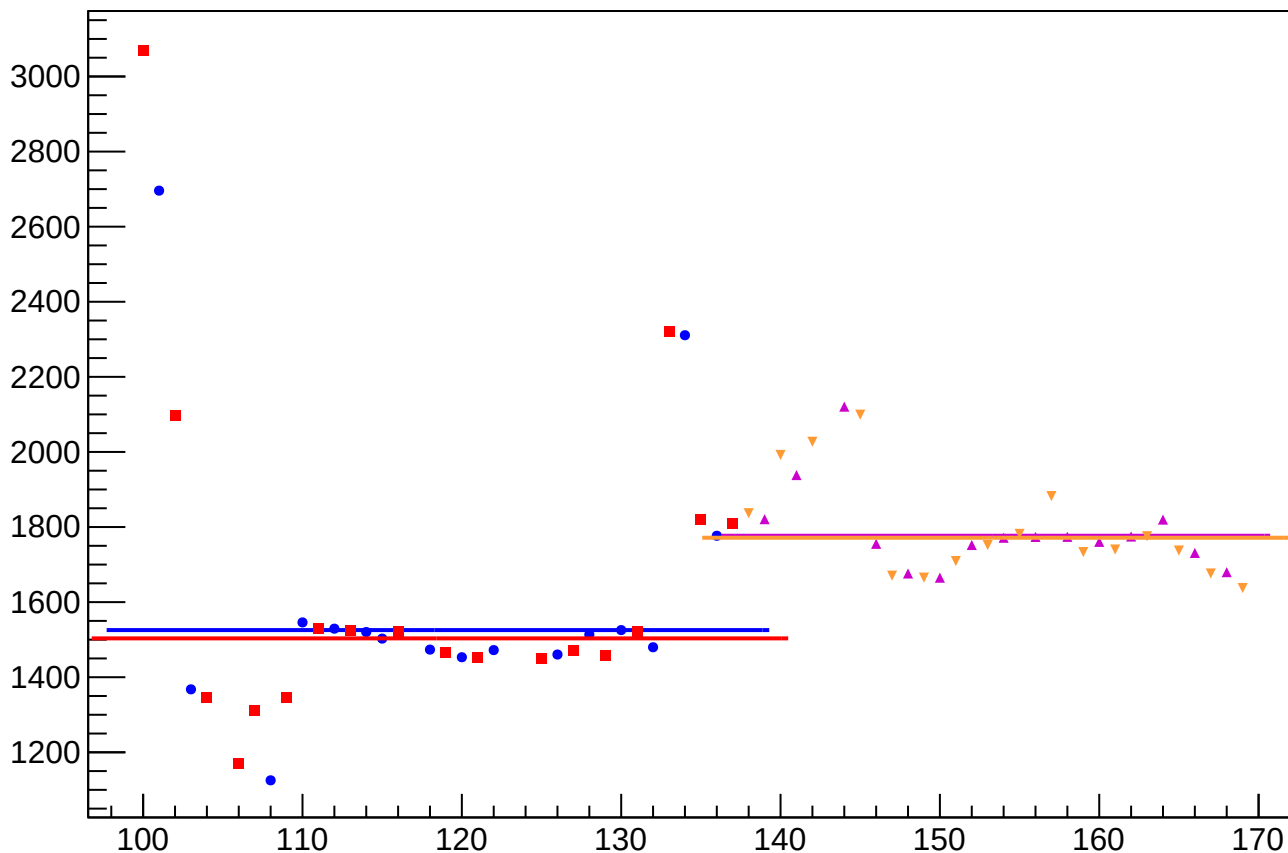
Right: -638.053 $\pm$ 407.709 χ^2 /NDF: 22.6/33

In: -1179.429 $\pm$ 380.478 χ^2 /NDF:12.6/30

Out: 862.988 $\pm$ 377.249 χ^2 /NDF:66.9/33

All: -149.517 $\pm$ 267.890 χ^2 /NDF: 94.0/64

dit_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1525.536 ± 0.409 $\chi^2/\text{NDF}: 488328.2/15$

Left Out: 1771.492 ± 0.353 $\chi^2/\text{NDF}: 115091.4/15$

Right Out: 1503.434 ± 0.407 $\chi^2/\text{NDF}: 338507.3/17$

Left In: 1776.807 ± 0.357 $\chi^2/\text{NDF}: 82777.4/14$

Left: 1774.120 ± 0.251 $\chi^2/\text{NDF}: 197980.6/30$

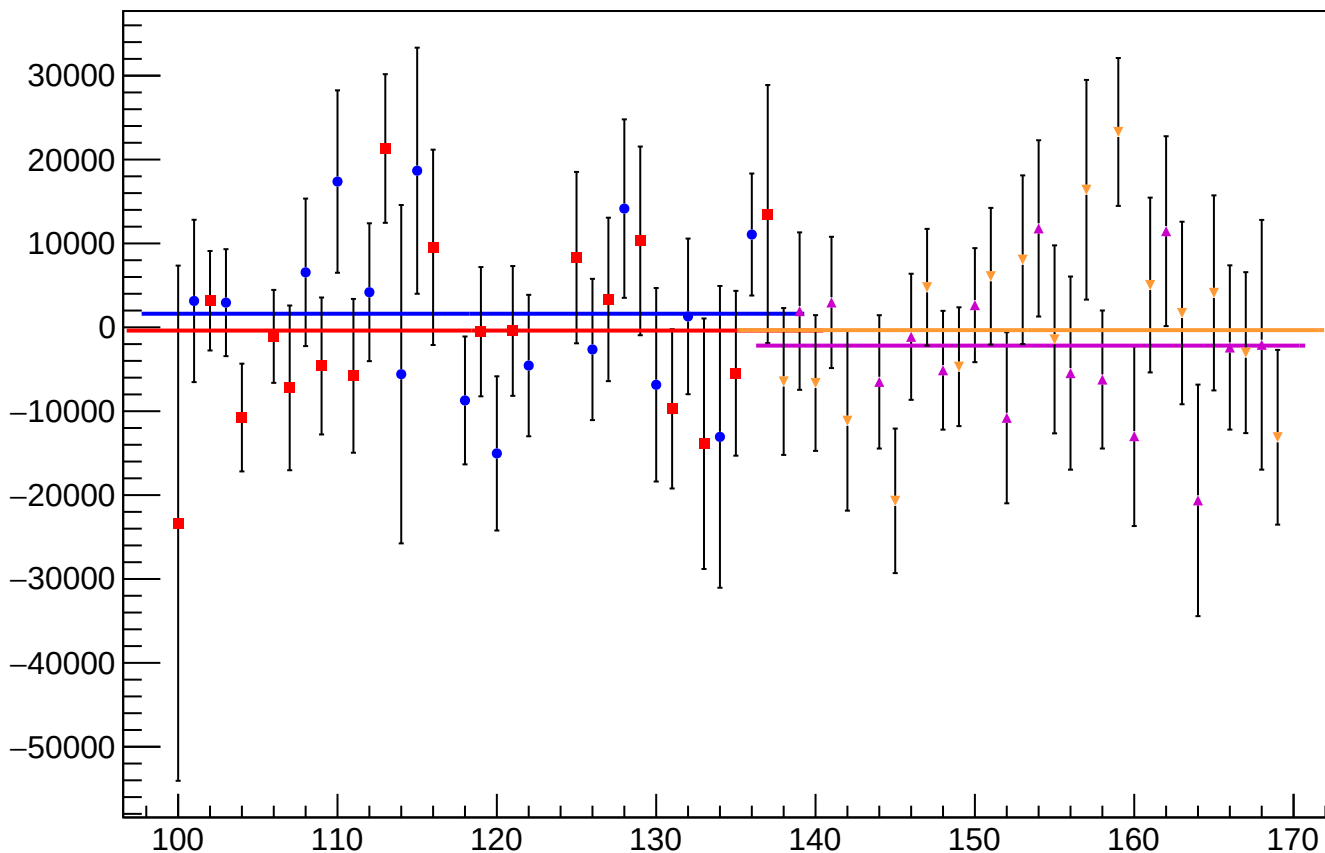
Right: 1514.425 ± 0.288 $\chi^2/\text{NDF}: 828305.2/33$

In: 1667.954 ± 0.269 $\chi^2/\text{NDF}: 785284.3/30$

Out: 1656.115 ± 0.267 $\chi^2/\text{NDF}: 701218.5/33$

All: 1661.983 ± 0.189 $\chi^2/\text{NDF}: 1487479.5/64$

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 1620.058 $\pm$ 2320.032 χ^2 /NDF: 14.3/15

Left Out: -335.336 $\pm$ 2307.198 χ^2 /NDF:20.8/15

Right Out: -385.942 $\pm$ 2060.867 χ^2 /NDF: 16.0/17

Left In: -2179.998 $\pm$ 2353.656 χ^2 /NDF:8.7/14

Left: -1239.282 $\pm$ 1647.615 χ^2 /NDF: 29.8/30

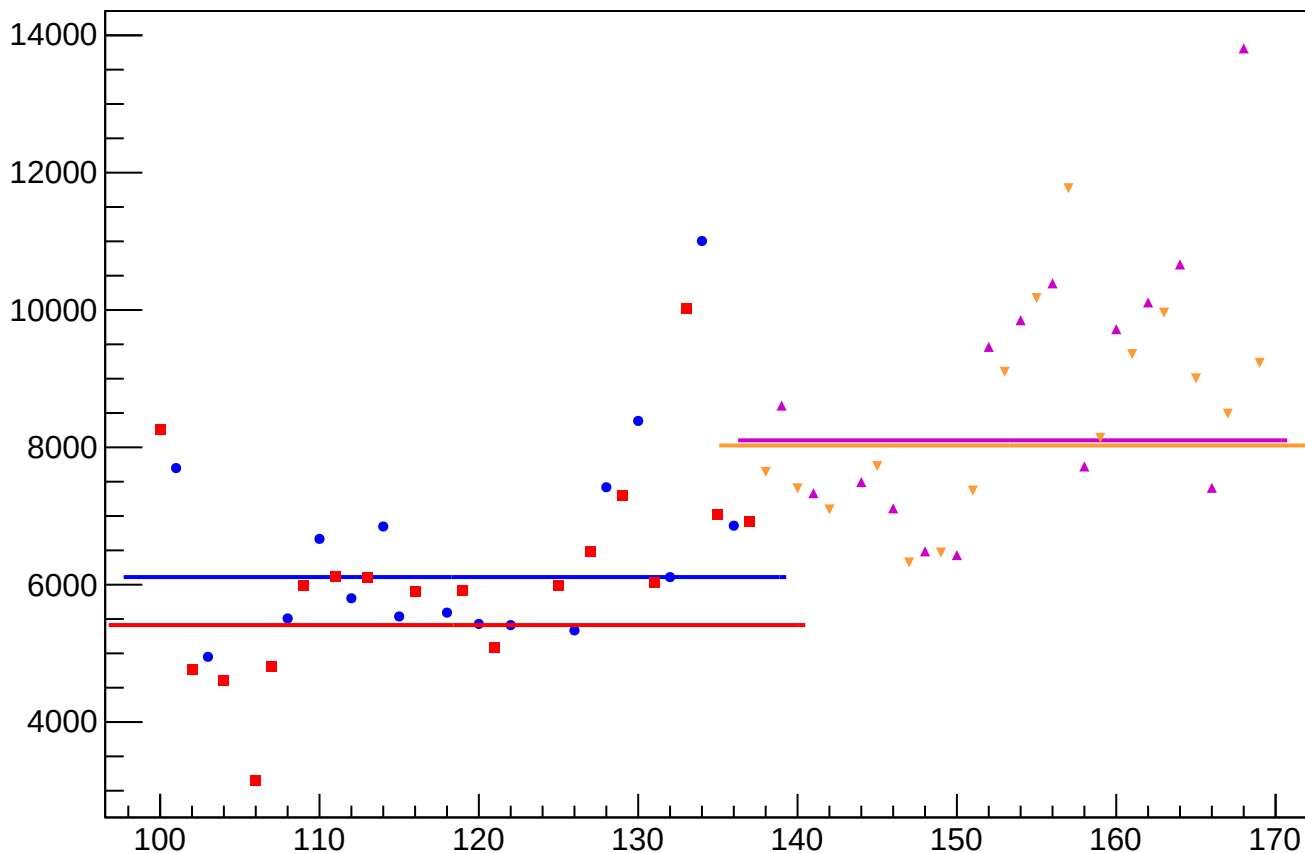
Right: 498.801 $\pm$ 1540.768 χ^2 /NDF: 30.7/33

In: -252.633 $\pm$ 1652.270 χ^2 /NDF:24.2/30

Out: -363.484 $\pm$ 1536.991 χ^2 /NDF:36.8/33

All: -312.060 $\pm$ 1125.366 χ^2 /NDF: 61.0/64

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 6111.037+/-1.641 χ^2/NDF : 471661.4/15

Left Out: 8027.154+/-1.631 χ^2/NDF : 664497.6/15

Right Out: 5412.276+/-1.457 χ^2/NDF : 821530.3/17

Left In: 8102.144+/-1.664 χ^2/NDF : 952375.7/14

Left: 8063.901+/-1.165 χ^2/NDF : 1617908.6/30

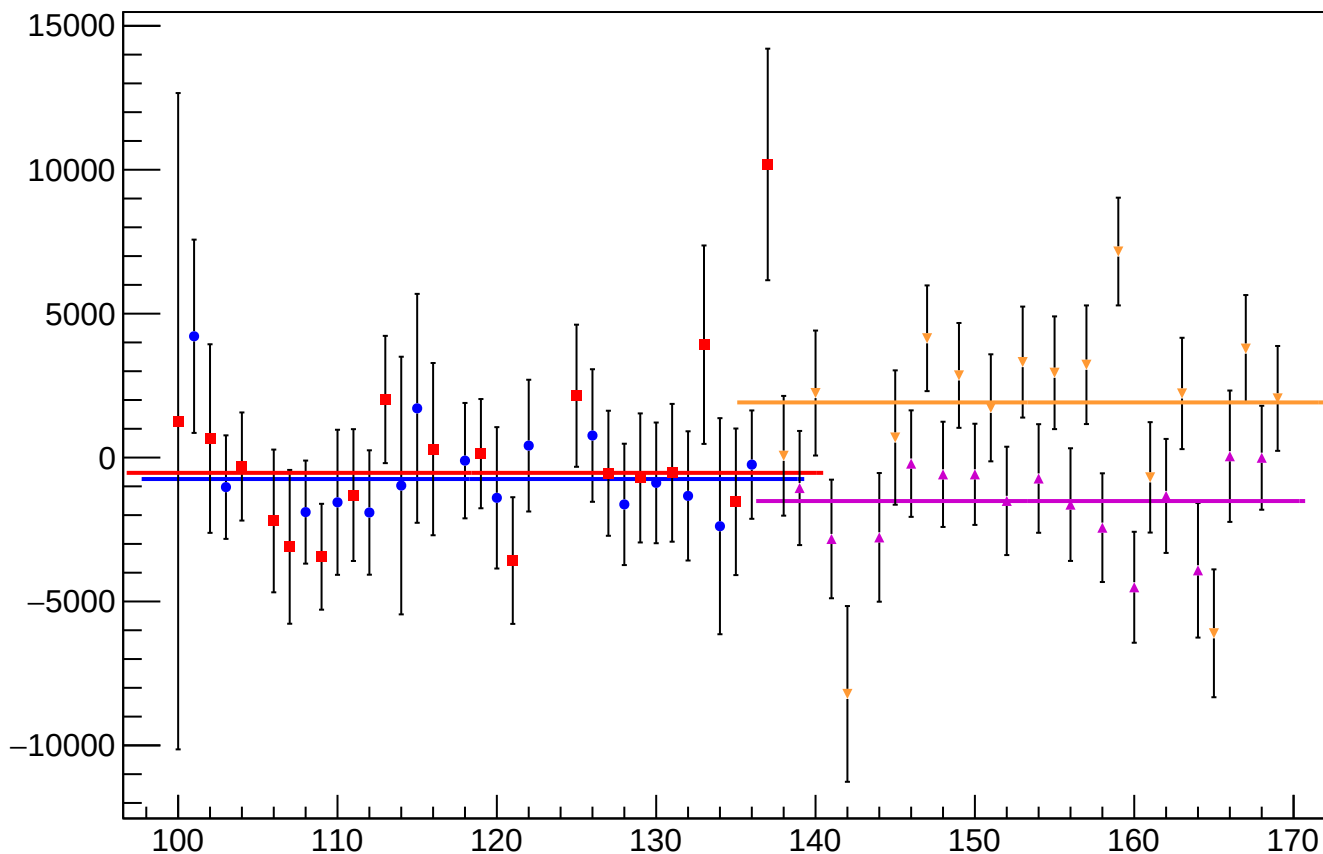
Right: 5720.463+/-1.089 χ^2/NDF : 1394599.9/33

In: 7092.266+/-1.168 χ^2/NDF : 2149988.5/30

Out: 6572.720+/-1.087 χ^2/NDF : 2914939.8/33

All: 6813.738+/-0.796 χ^2/NDF : 5170941.9/64

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -745.918+/-578.071 χ^2/NDF : 4.8/15

Left Out: 1916.007+/-499.800 χ^2/NDF :38.8/15

Right Out: -531.302+/-575.115 χ^2/NDF : 17.7/17

Left In: -1510.772+/-505.380 χ^2/NDF :6.9/14

Left: 221.641+/-355.368 χ^2/NDF : 68.9/30

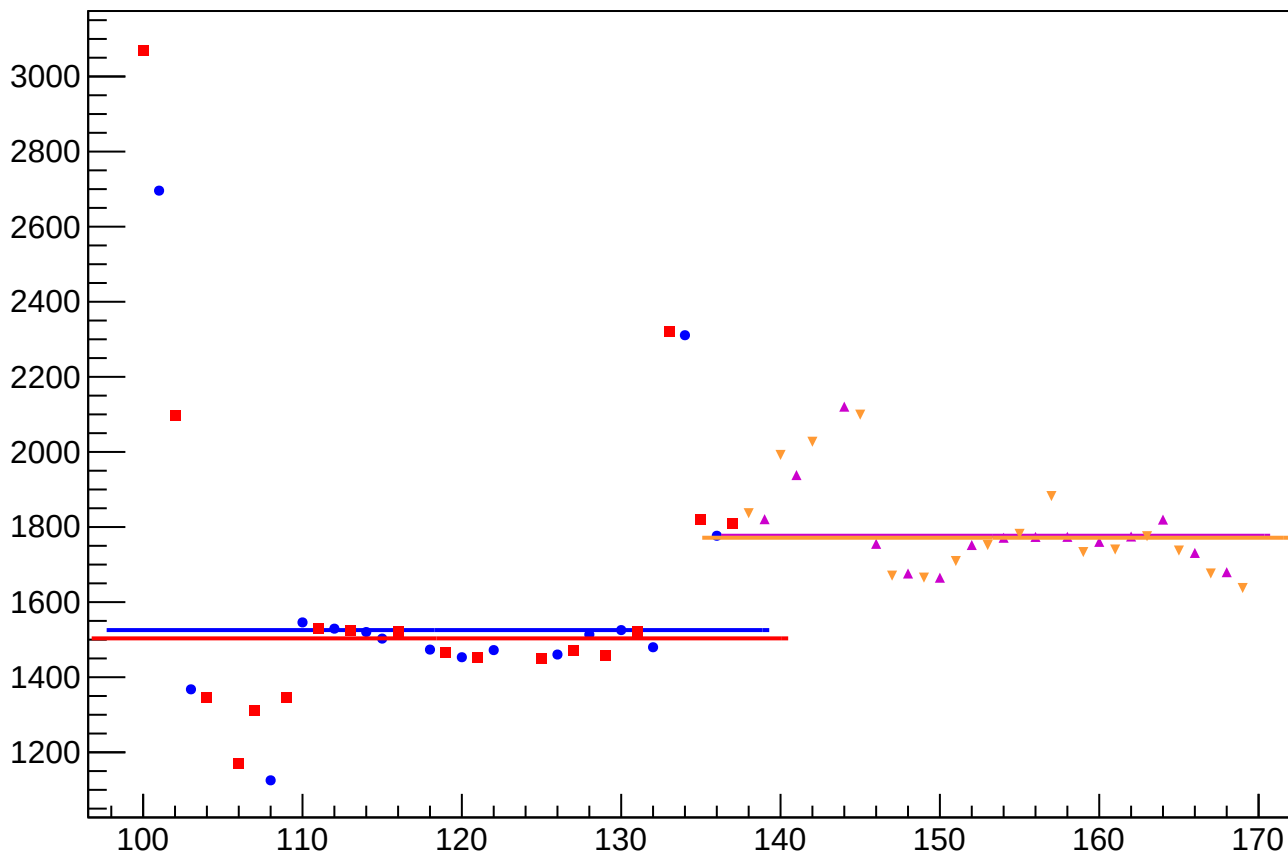
Right: -638.060+/-407.709 χ^2/NDF : 22.6/33

In: -1179.431+/-380.478 χ^2/NDF :12.6/30

Out: 862.988+/-377.249 χ^2/NDF :66.9/33

All: -149.518+/-267.890 χ^2/NDF : 94.0/64

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1525.536+/-0.409 χ^2/NDF : 488327.8/15

Left Out: 1771.495+/-0.353 χ^2/NDF : 115092.8/15

Right Out: 1503.435+/-0.407 χ^2/NDF : 338507.7/17

Left In: 1776.810+/-0.357 χ^2/NDF : 82777.6/14

Left: 1774.123+/-0.251 χ^2/NDF : 197982.3/30

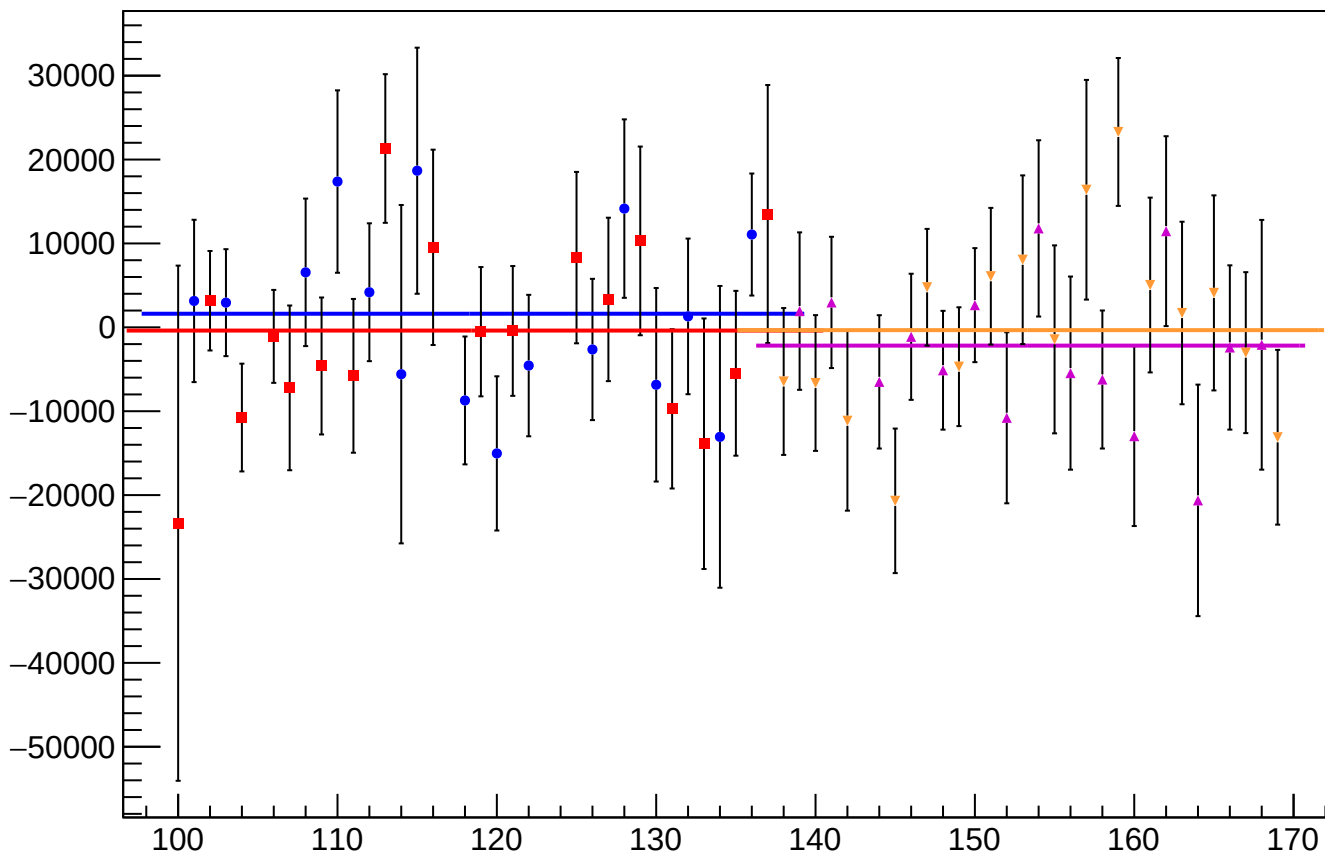
Right: 1514.425+/-0.288 χ^2/NDF : 828305.2/33

In: 1667.956+/-0.269 χ^2/NDF : 785289.3/30

Out: 1656.116+/-0.267 χ^2/NDF : 701224.7/33

All: 1661.985+/-0.189 χ^2/NDF : 1487490.7/64

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 1620.038 $\pm$ 2320.027 χ^2 /NDF: 14.3/15

Left Out: -335.335 $\pm$ 2307.201 χ^2 /NDF:20.8/15

Right Out: -385.948 $\pm$ 2060.863 χ^2 /NDF: 16.0/17

Left In: -2179.995 $\pm$ 2353.659 χ^2 /NDF:8.7/14

Left: -1239.280 $\pm$ 1647.618 χ^2 /NDF: 29.8/30

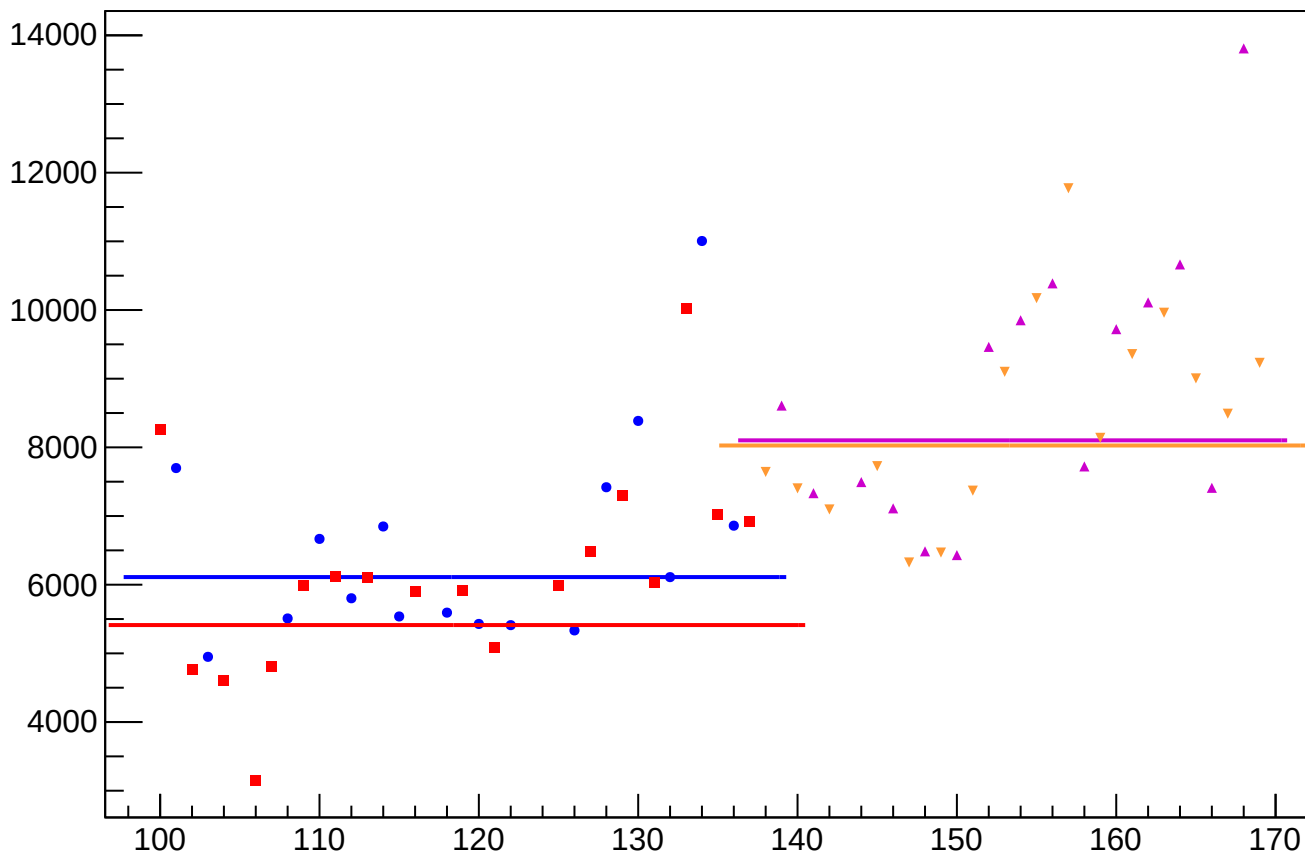
Right: 498.789 $\pm$ 1540.764 χ^2 /NDF: 30.7/33

In: -252.635 $\pm$ 1652.269 χ^2 /NDF:24.2/30

Out: -363.487 $\pm$ 1536.990 χ^2 /NDF:36.8/33

All: -312.063 $\pm$ 1125.365 χ^2 /NDF: 61.0/64

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 6111.023+/-1.641 χ^2/NDF : 471663.6/15

Left Out: 8027.164+/-1.631 χ^2/NDF : 664499.1/15

Right Out: 5412.265+/-1.457 χ^2/NDF : 821530.5/17

Left In: 8102.155+/-1.664 χ^2/NDF : 952377.5/14

Left: 8063.912+/-1.165 χ^2/NDF : 1617912.0/30

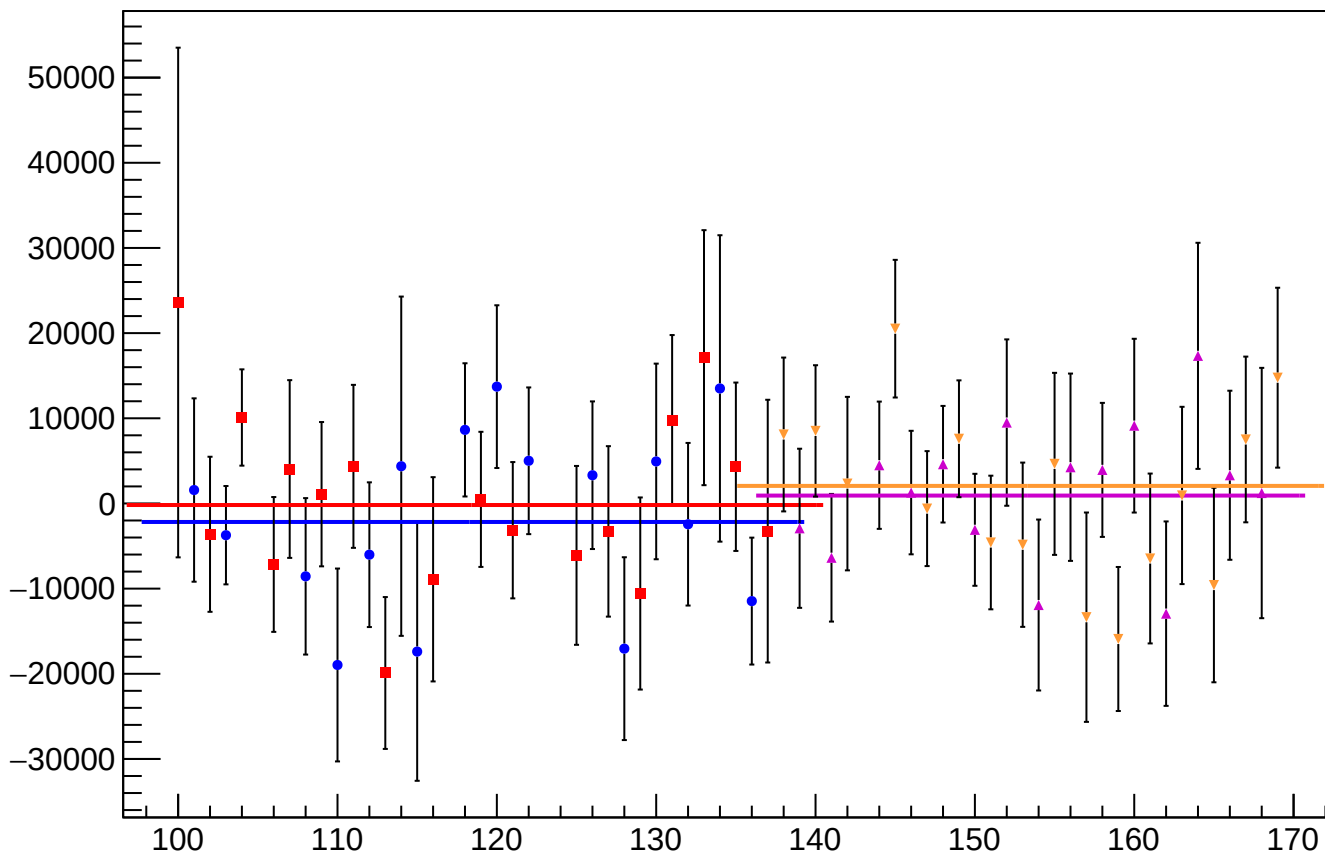
Right: 5720.451+/-1.089 χ^2/NDF : 1394602.1/33

In: 7092.262+/-1.168 χ^2/NDF : 2150010.9/30

Out: 6572.714+/-1.087 χ^2/NDF : 2914966.2/33

All: 6813.733+/-0.796 χ^2/NDF : 5170991.2/64

asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected



Right In: -2174.048 $\pm$ 2347.664 χ^2 /NDF: 14.6/15

Left Out: 2061.539 $\pm$ 2235.597 χ^2 /NDF:18.1/15

Right Out: -183.559 $\pm$ 2228.883 χ^2 /NDF: 14.7/17

Left In: 924.911 $\pm$ 2269.770 χ^2 /NDF:8.5/14

Left: 1501.846 $\pm$ 1592.750 χ^2 /NDF: 26.8/30

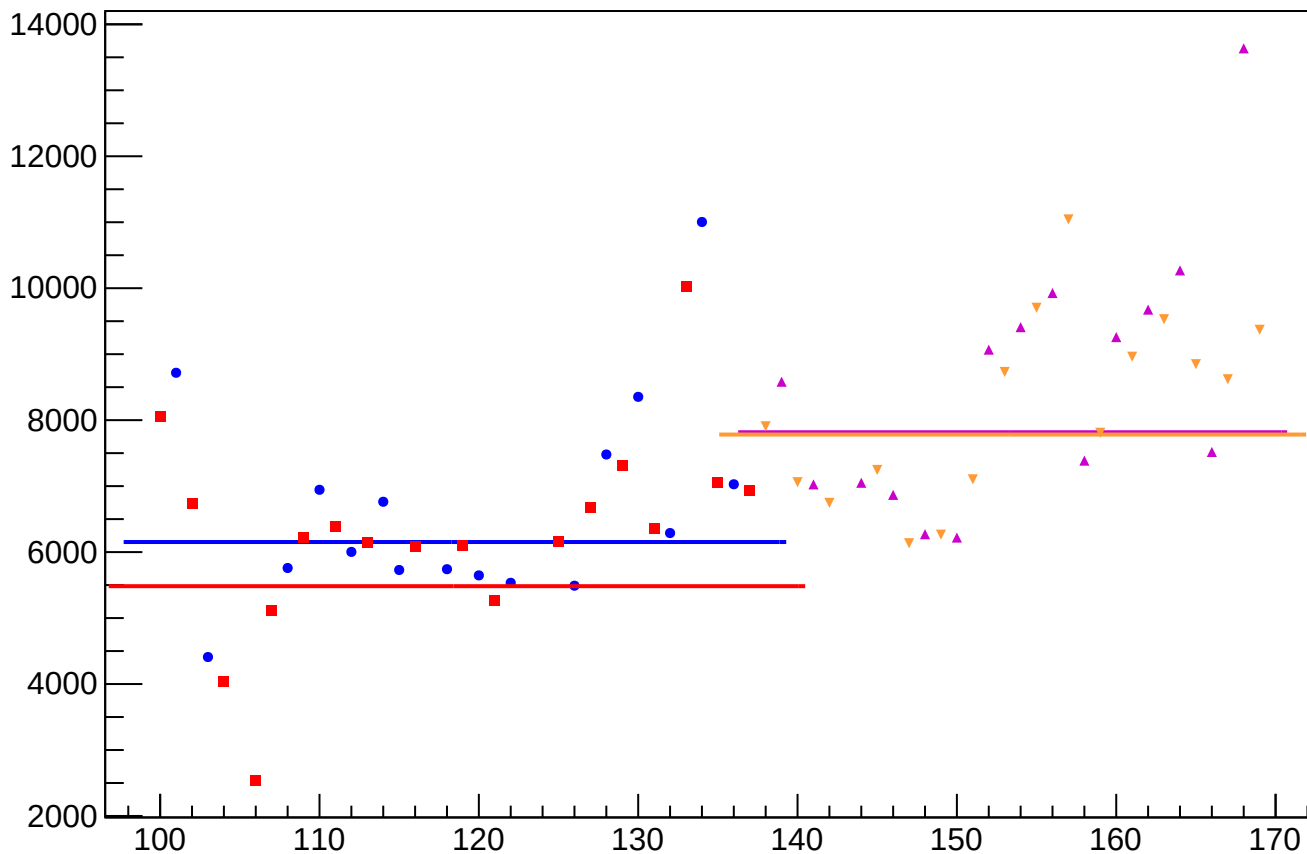
Right: -1127.176 $\pm$ 1616.419 χ^2 /NDF: 29.6/33

In: -572.306 $\pm$ 1631.813 χ^2 /NDF:24.0/30

Out: 935.614 $\pm$ 1578.426 χ^2 /NDF:33.3/33

All: 206.724 $\pm$ 1134.520 χ^2 /NDF: 57.7/64

asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected



Right In: 6152.690 +/- 1.660 χ^2/NDF : 624026.7/15

Left Out: 7781.813 +/- 1.581 χ^2/NDF : 666226.0/15

Right Out: 5483.337 +/- 1.519 χ^2/NDF : 1148712.9/17

Left In: 7816.783 +/- 1.605 χ^2/NDF : 956386.6/14

Left: 7799.032 +/- 1.126 χ^2/NDF : 1622853.6/30

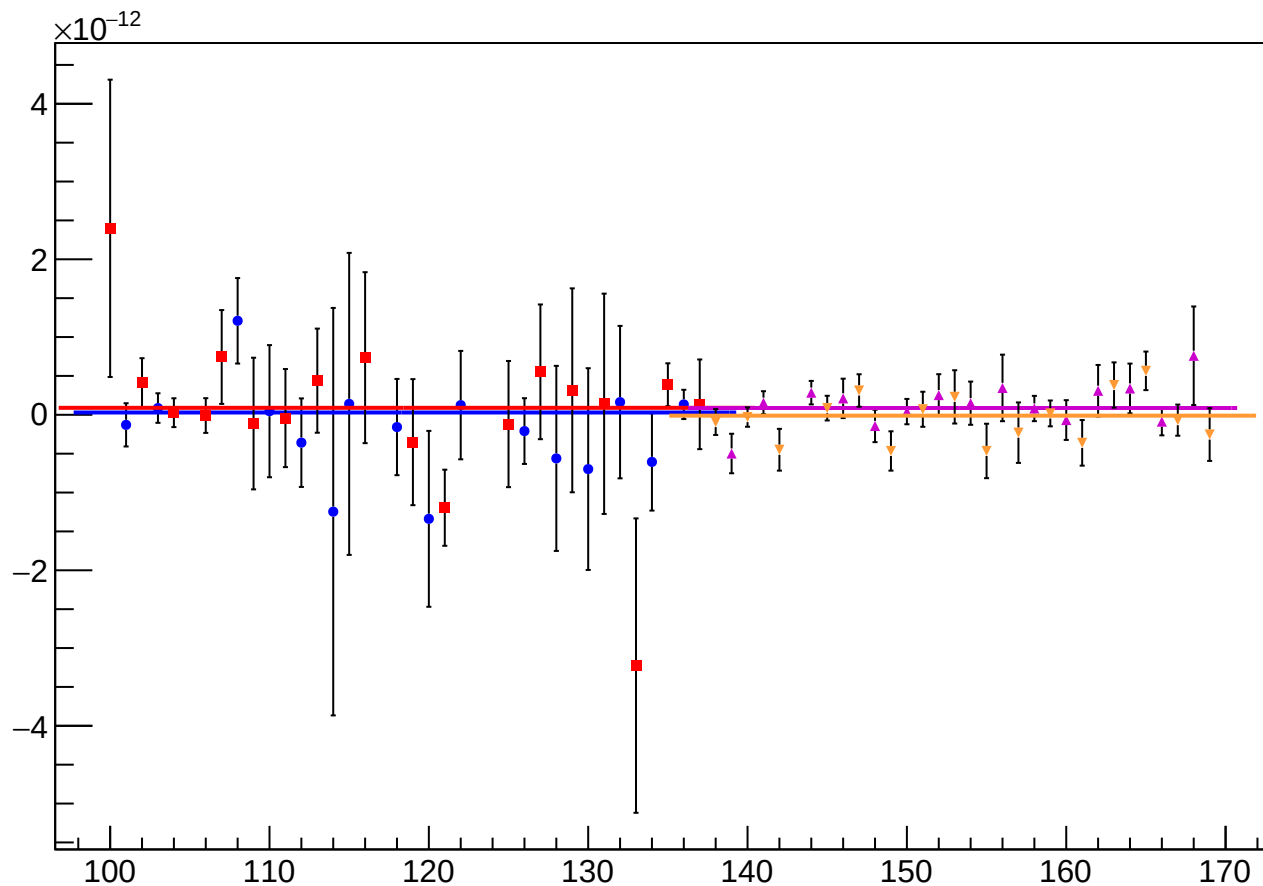
Right: 5788.476 +/- 1.121 χ^2/NDF : 1861205.2/33

In: 7012.796 +/- 1.154 χ^2/NDF : 2099802.2/30

Out: 6587.112 +/- 1.095 χ^2/NDF : 2913798.2/33

All: 6788.910 +/- 0.794 χ^2/NDF : 5085182.7/64

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 9.5/15

Left Out: -0.000+/-0.000 χ^2/NDF : 20.8/15

Right Out: 0.000+/-0.000 χ^2/NDF : 16.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 13.1/14

Left: 0.000+/-0.000 χ^2/NDF : 35.6/30

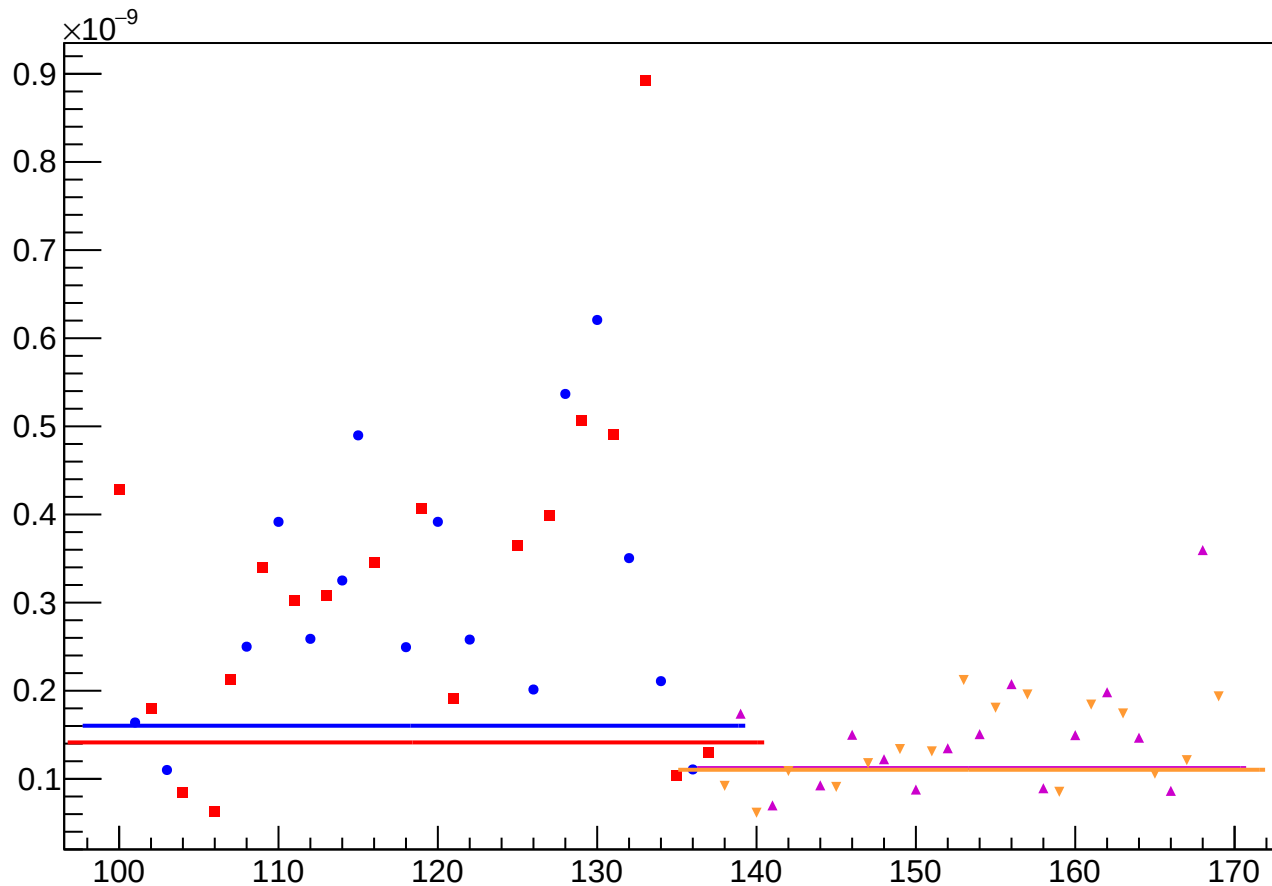
Right: 0.000+/-0.000 χ^2/NDF : 26.2/33

In: 0.000+/-0.000 χ^2/NDF : 22.9/30

Out: 0.000+/-0.000 χ^2/NDF : 38.1/33

All: 0.000+/-0.000 χ^2/NDF : 61.8/64

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1329606.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1145627.9/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2165946.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 1148780.3/14

Left: 0.000+/-0.000 χ^2/NDF : 2295635.2/30

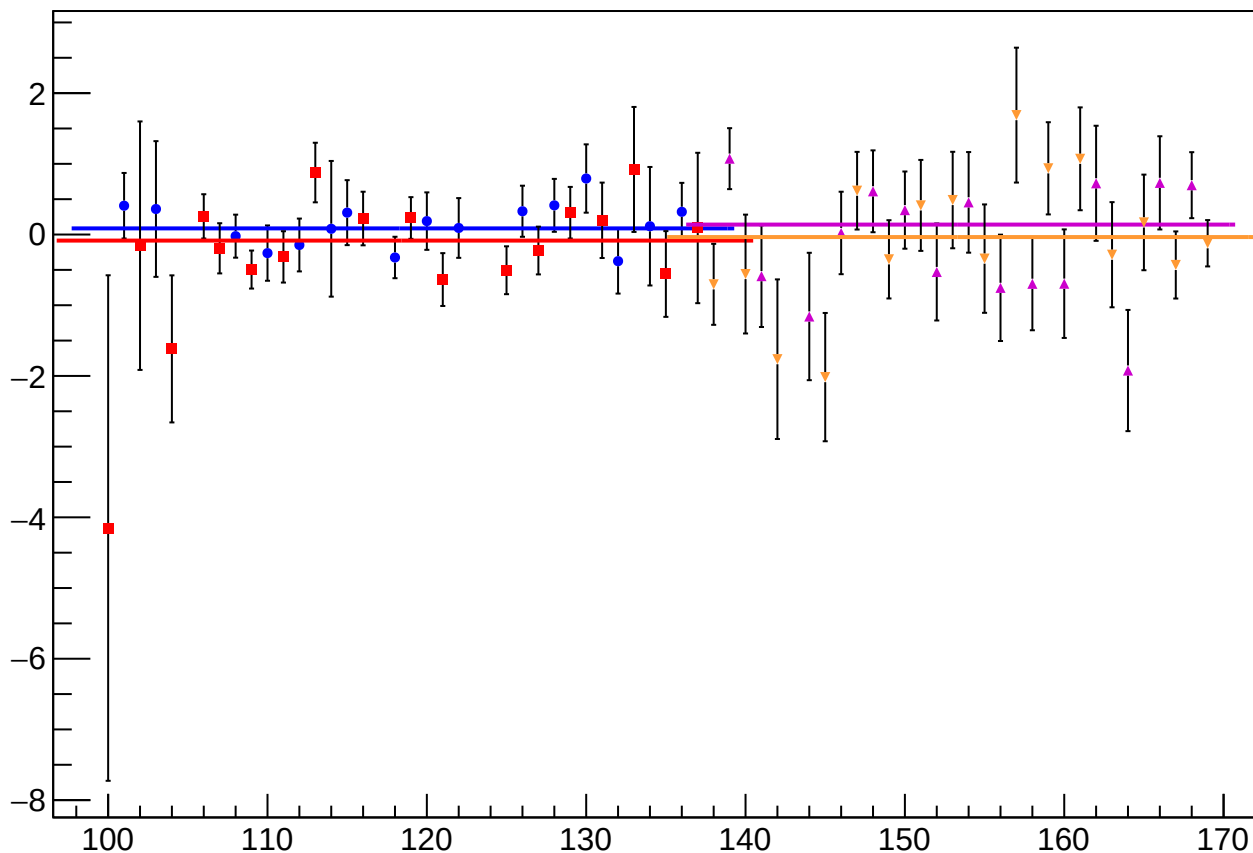
Right: 0.000+/-0.000 χ^2/NDF : 3529311.8/33

In: 0.000+/-0.000 χ^2/NDF : 2811111.9/30

Out: 0.000+/-0.000 χ^2/NDF : 3454959.8/33

All: 0.000+/-0.000 χ^2/NDF : 6281578.3/64

asym_us_avg_at2lr_avg_dd_dit_vs_slug_Sign_Corrected



Right In: 0.087 ± 0.105 χ^2/NDF : 8.8/15

Left Out: -0.036 ± 0.154 χ^2/NDF : 20.6/15

Right Out: -0.086 ± 0.097 χ^2/NDF : 21.8/17

Left In: 0.141 ± 0.163 χ^2/NDF : 22.5/14

Left: 0.047 ± 0.112 χ^2/NDF : 43.8/30

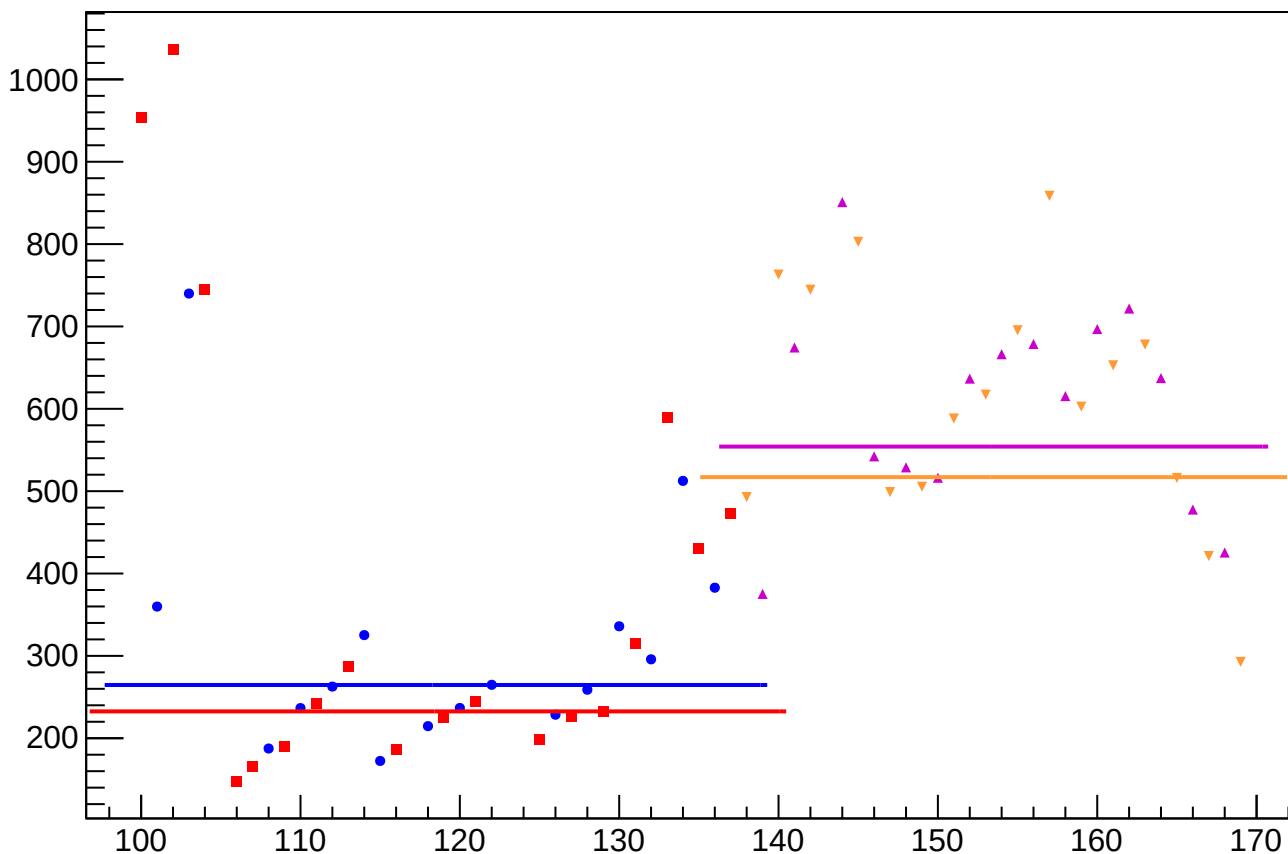
Right: -0.006 ± 0.071 χ^2/NDF : 32.1/33

In: 0.103 ± 0.088 χ^2/NDF : 31.5/30

Out: -0.071 ± 0.082 χ^2/NDF : 42.5/33

All: 0.009 ± 0.060 χ^2/NDF : 76.1/64

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667+/-0.074 χ^2/NDF : 1284007.6/15

Left Out: 517.039+/-0.109 χ^2/NDF : 2106547.2/15

Right Out: 232.596+/-0.069 χ^2/NDF : 2032662.7/17

Left In: 554.142+/-0.116 χ^2/NDF : 1133894.0/14

Left: 534.443+/-0.079 χ^2/NDF : 3295196.5/30

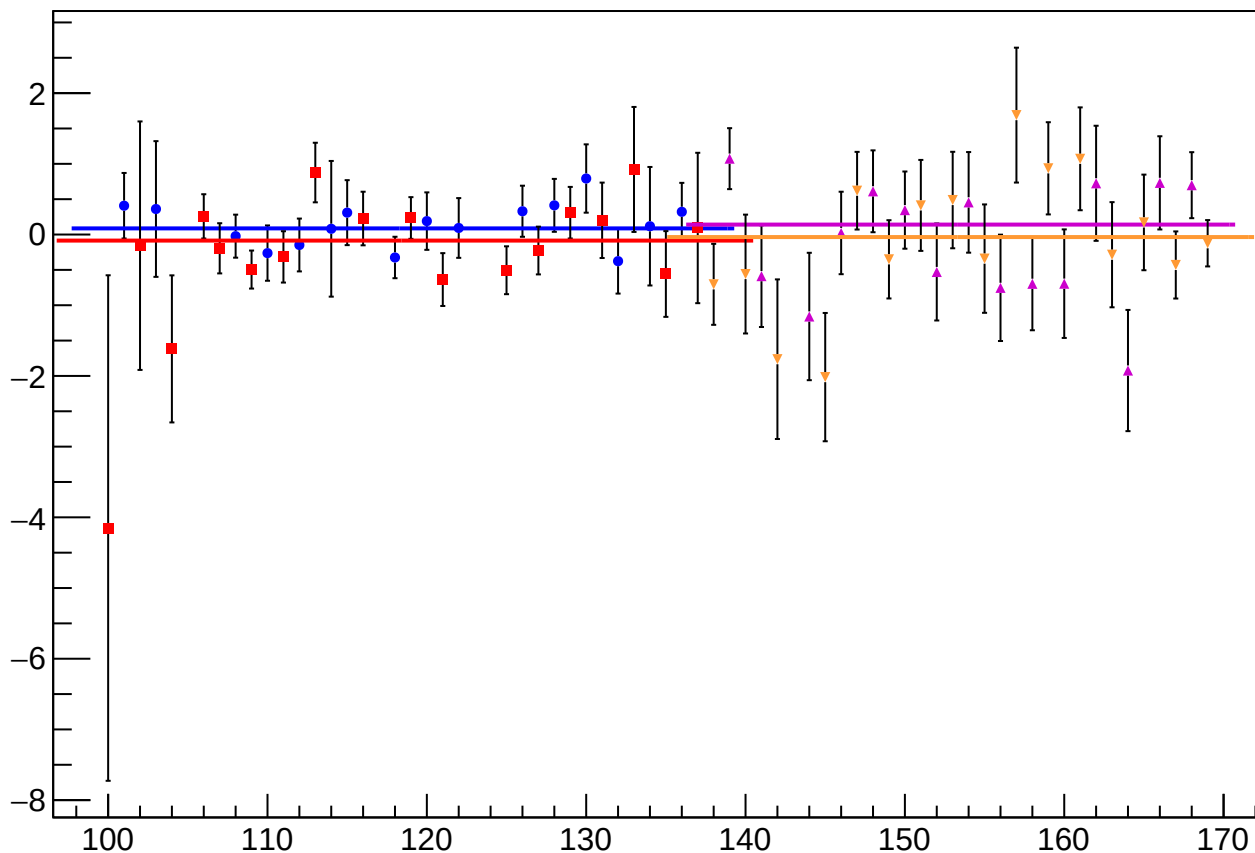
Right: 247.407+/-0.050 χ^2/NDF : 3416944.1/33

In: 349.360+/-0.062 χ^2/NDF : 6858740.6/30

Out: 314.111+/-0.058 χ^2/NDF : 9033702.9/33

All: 330.463+/-0.043 χ^2/NDF : 16062998.6/64

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.087 ± 0.105 $\chi^2/\text{NDF}: 8.8/15$

Left Out: -0.036 ± 0.154 $\chi^2/\text{NDF}: 20.6/15$

Right Out: -0.086 ± 0.097 $\chi^2/\text{NDF}: 21.8/17$

Left In: 0.141 ± 0.163 $\chi^2/\text{NDF}: 22.5/14$

Left: 0.047 ± 0.112 $\chi^2/\text{NDF}: 43.8/30$

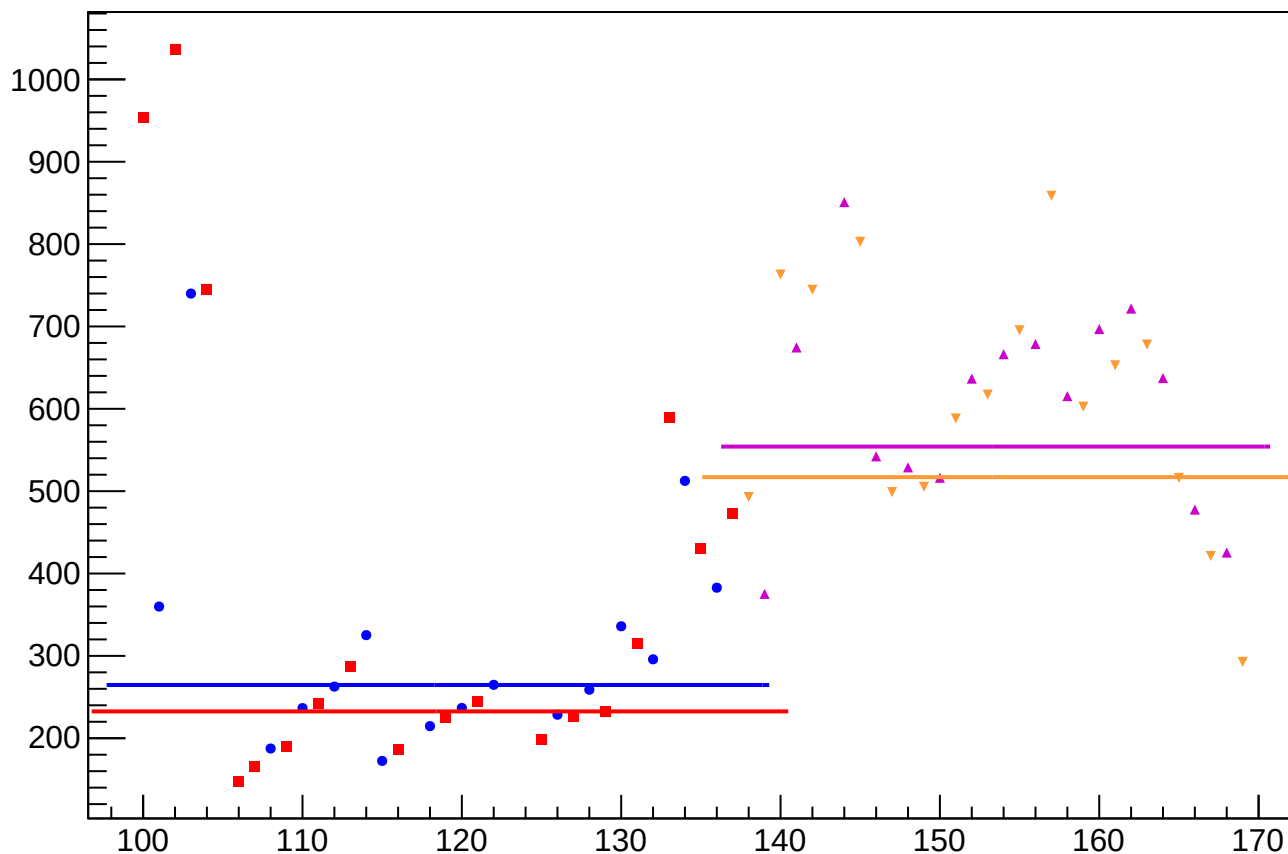
Right: -0.006 ± 0.071 $\chi^2/\text{NDF}: 32.1/33$

In: 0.103 ± 0.088 $\chi^2/\text{NDF}: 31.5/30$

Out: -0.071 ± 0.082 $\chi^2/\text{NDF}: 42.5/33$

All: 0.009 ± 0.060 $\chi^2/\text{NDF}: 76.1/64$

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667 $\pm$ 0.074 χ^2 /NDF: 1284007.6/15

Left Out: 517.039 $\pm$ 0.109 χ^2 /NDF: 2106547.2/15

Right Out: 232.596 $\pm$ 0.069 χ^2 /NDF: 2032662.7/17

Left In: 554.142 $\pm$ 0.116 χ^2 /NDF: 1133894.0/14

Left: 534.443 $\pm$ 0.079 χ^2 /NDF: 3295196.5/30

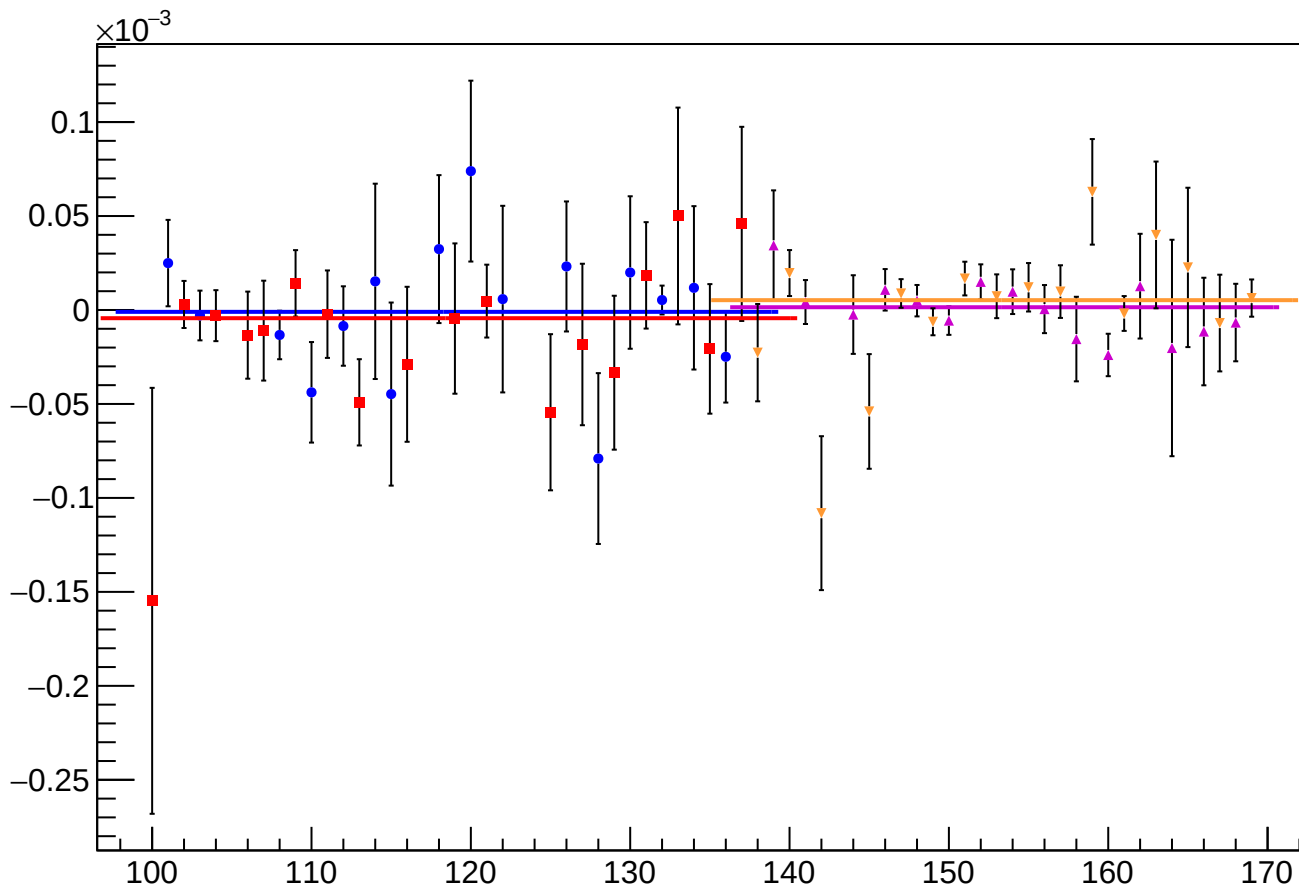
Right: 247.407 $\pm$ 0.050 χ^2 /NDF: 3416944.1/33

In: 349.360 $\pm$ 0.062 χ^2 /NDF: 6858740.6/30

Out: 314.111 $\pm$ 0.058 χ^2 /NDF: 9033702.9/33

All: 330.463 $\pm$ 0.043 χ^2 /NDF: 16062998.6/64

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.4/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 24.8/15

Right Out: -0.000 ± 0.000 χ^2/NDF : 12.6/17

Left In: 0.000 ± 0.000 χ^2/NDF : 12.0/14

Left: 0.000 ± 0.000 χ^2/NDF : 37.5/30

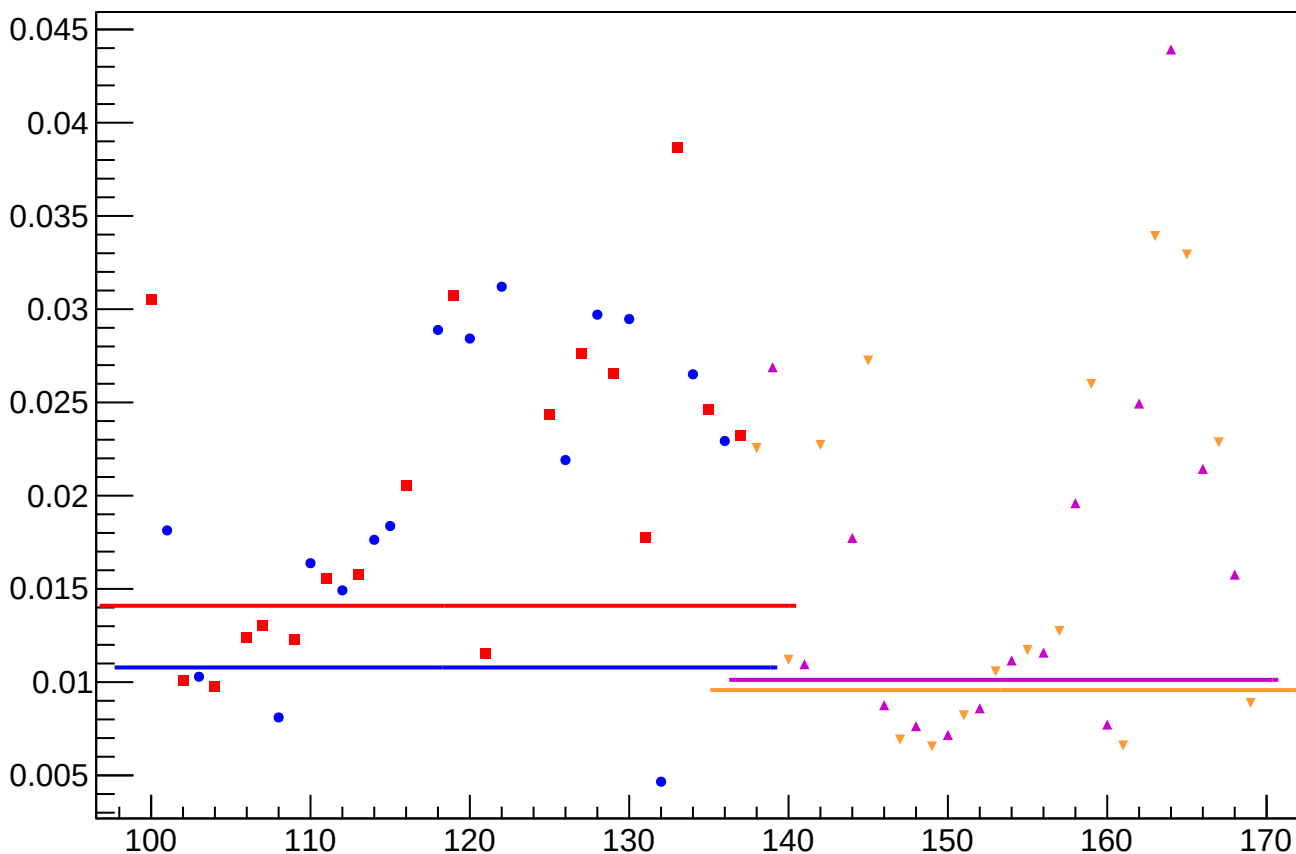
Right: -0.000 ± 0.000 χ^2/NDF : 27.2/33

In: 0.000 ± 0.000 χ^2/NDF : 26.5/30

Out: 0.000 ± 0.000 χ^2/NDF : 39.6/33

All: 0.000 ± 0.000 χ^2/NDF : 66.5/64

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 4580054.6/15

Left Out: 0.010+/-0.000 χ^2/NDF :5048613.7/15

Right Out: 0.014+/-0.000 χ^2/NDF : 2084942.5/17

Left In: 0.010+/-0.000 χ^2/NDF :3699202.5/14

Left: 0.010+/-0.000 χ^2/NDF : 8776794.5/30

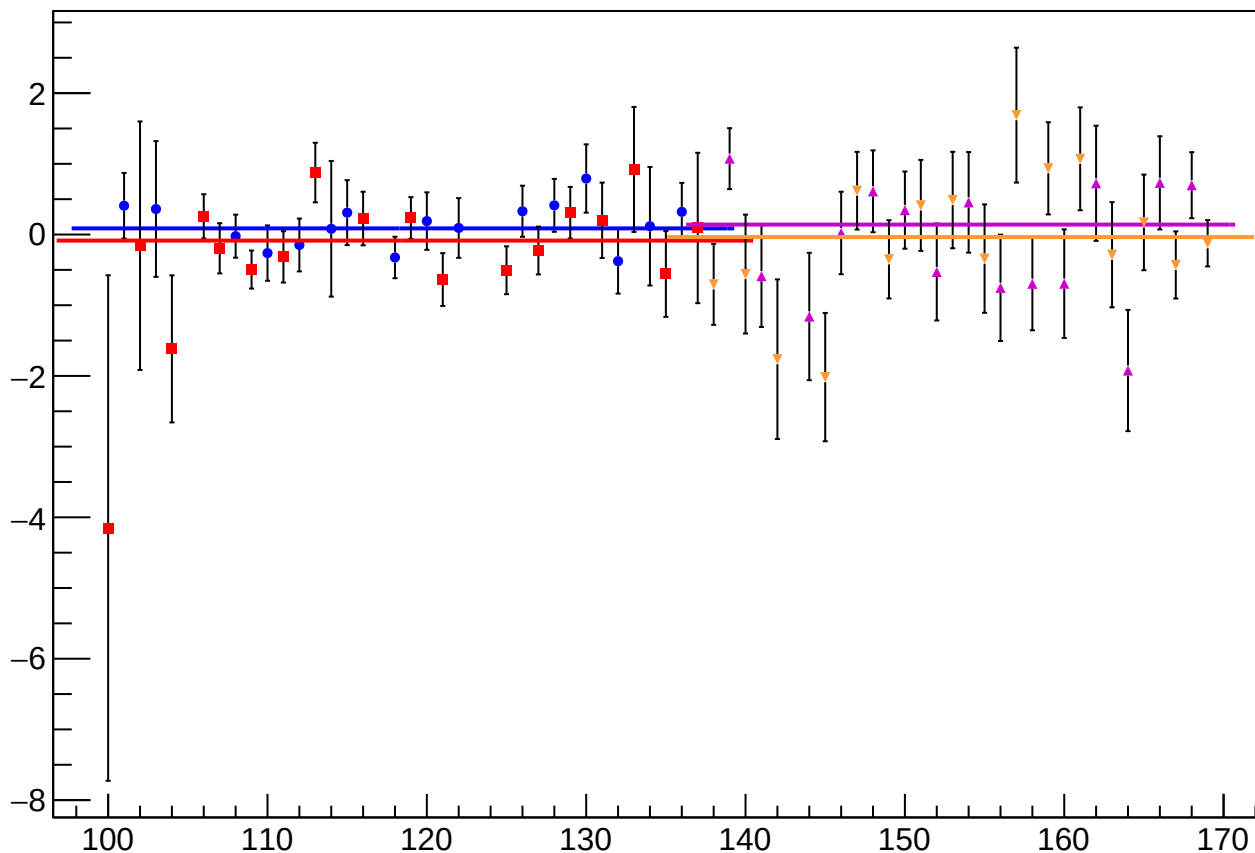
Right: 0.012+/-0.000 χ^2/NDF : 7045946.1/33

In: 0.010+/-0.000 χ^2/NDF :8303914.2/30

Out: 0.011+/-0.000 χ^2/NDF :8094513.3/33

All: 0.010+/-0.000 χ^2/NDF : 16408453.1/64

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.087 $\pm$ 0.105 χ^2 /NDF: 8.8/15

Left Out: -0.036 $\pm$ 0.154 χ^2 /NDF:20.6/15

Right Out: -0.086 $\pm$ 0.097 χ^2 /NDF: 21.8/17

Left In: 0.141 $\pm$ 0.163 χ^2 /NDF:22.5/14

Left: 0.047 $\pm$ 0.112 χ^2 /NDF: 43.8/30

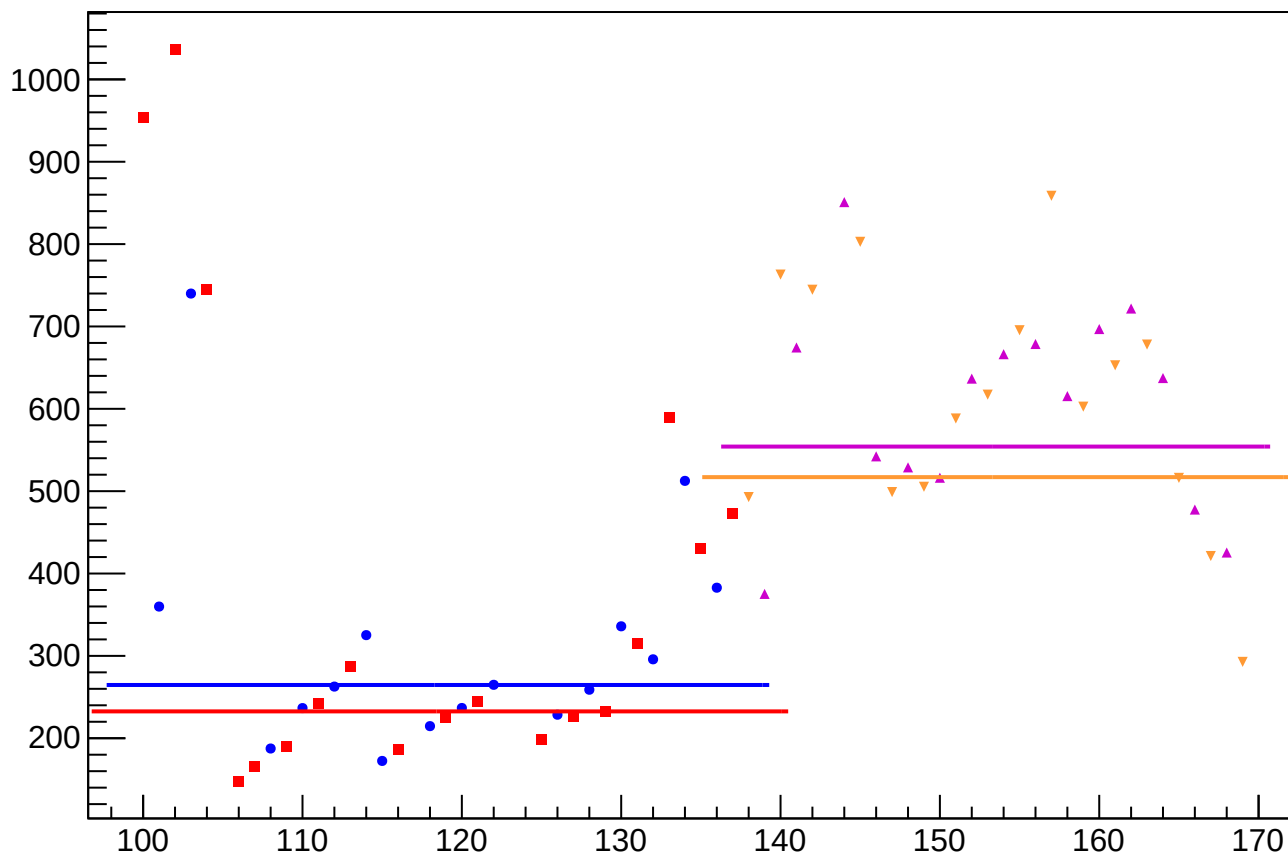
Right: -0.006 $\pm$ 0.071 χ^2 /NDF: 32.1/33

In: 0.103 $\pm$ 0.088 χ^2 /NDF:31.5/30

Out: -0.071 $\pm$ 0.082 χ^2 /NDF:42.5/33

All: 0.009 $\pm$ 0.060 χ^2 /NDF: 76.1/64

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667 $\pm$ 0.074 χ^2 /NDF: 1283977.8/15

Left Out: 517.043 $\pm$ 0.109 χ^2 /NDF: 2106631.1/15

Right Out: 232.596 $\pm$ 0.069 χ^2 /NDF: 2032655.0/17

Left In: 554.151 $\pm$ 0.116 χ^2 /NDF: 1133862.0/14

Left: 534.449 $\pm$ 0.079 χ^2 /NDF: 3295261.0/30

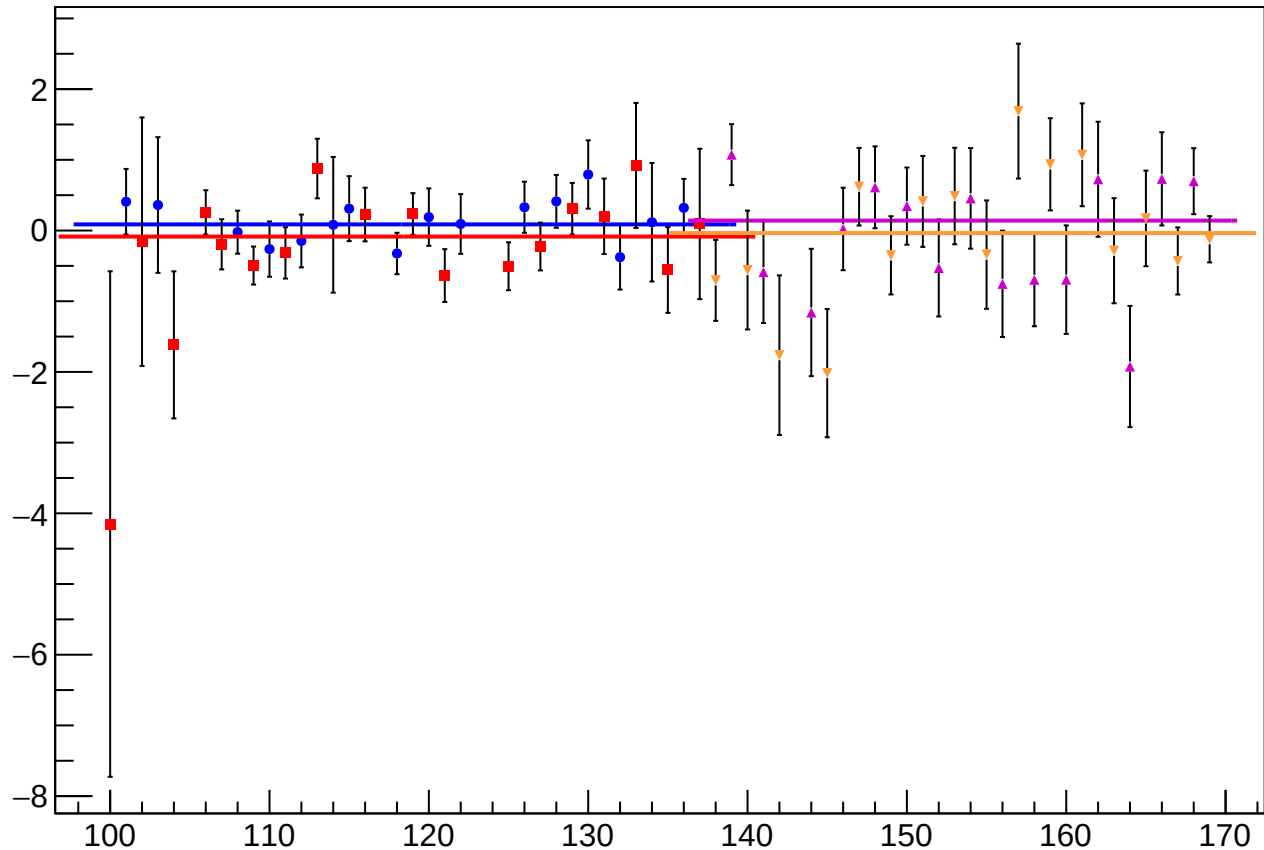
Right: 247.407 $\pm$ 0.050 χ^2 /NDF: 3416901.3/33

In: 349.360 $\pm$ 0.062 χ^2 /NDF: 6858866.7/30

Out: 314.112 $\pm$ 0.058 χ^2 /NDF: 9033828.3/33

All: 330.464 $\pm$ 0.043 χ^2 /NDF: 16063245.3/64

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.087 ± 0.105 $\chi^2/\text{NDF}: 8.8/15$

Left Out: -0.036 ± 0.154 $\chi^2/\text{NDF}: 20.6/15$

Right Out: -0.086 ± 0.097 $\chi^2/\text{NDF}: 21.8/17$

Left In: 0.141 ± 0.163 $\chi^2/\text{NDF}: 22.5/14$

Left: 0.047 ± 0.112 $\chi^2/\text{NDF}: 43.8/30$

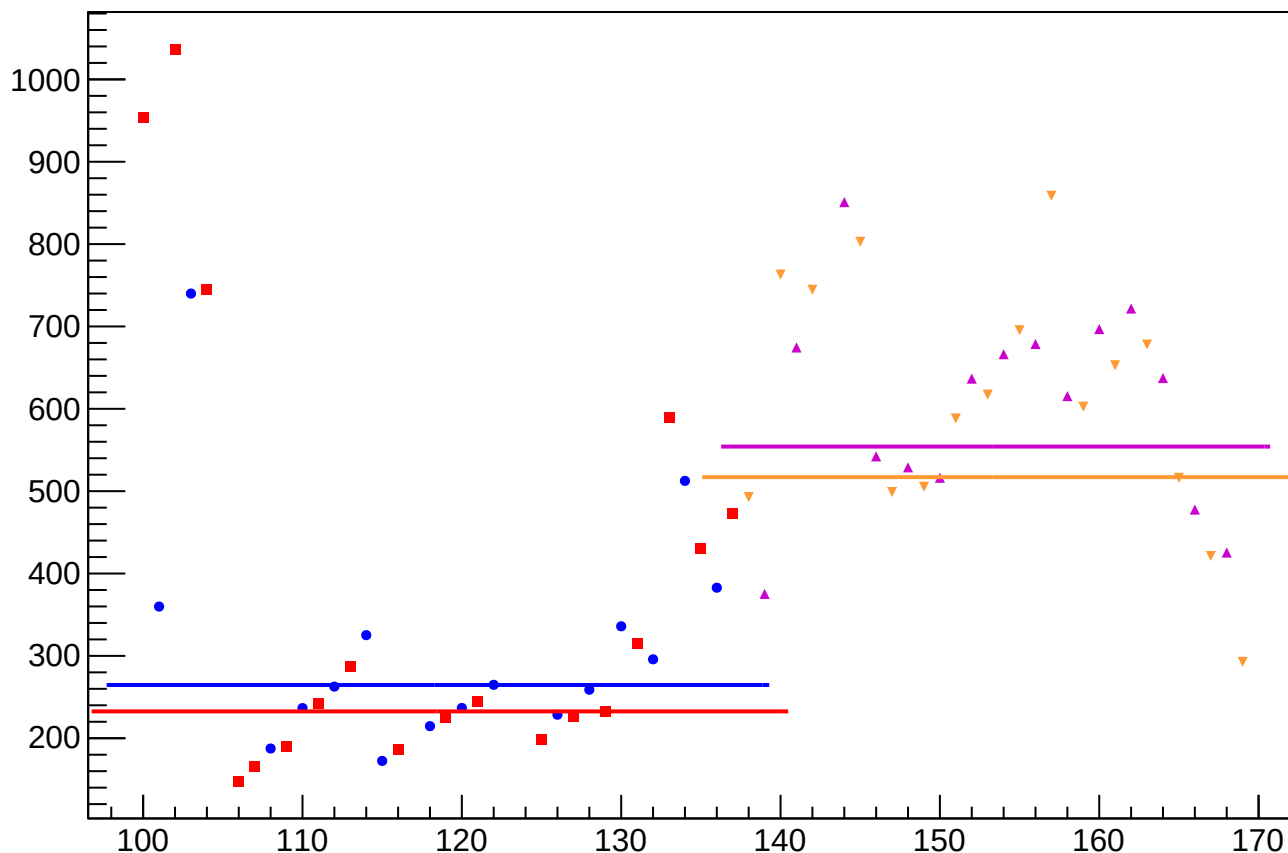
Right: -0.006 ± 0.071 $\chi^2/\text{NDF}: 32.1/33$

In: 0.103 ± 0.088 $\chi^2/\text{NDF}: 31.5/30$

Out: -0.071 ± 0.082 $\chi^2/\text{NDF}: 42.5/33$

All: 0.009 ± 0.060 $\chi^2/\text{NDF}: 76.1/64$

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 264.667 $\pm$ 0.074 χ^2 /NDF: 1283977.8/15

Left Out: 517.043 $\pm$ 0.109 χ^2 /NDF: 2106631.1/15

Right Out: 232.596 $\pm$ 0.069 χ^2 /NDF: 2032655.0/17

Left In: 554.151 $\pm$ 0.116 χ^2 /NDF: 1133862.0/14

Left: 534.449 $\pm$ 0.079 χ^2 /NDF: 3295261.0/30

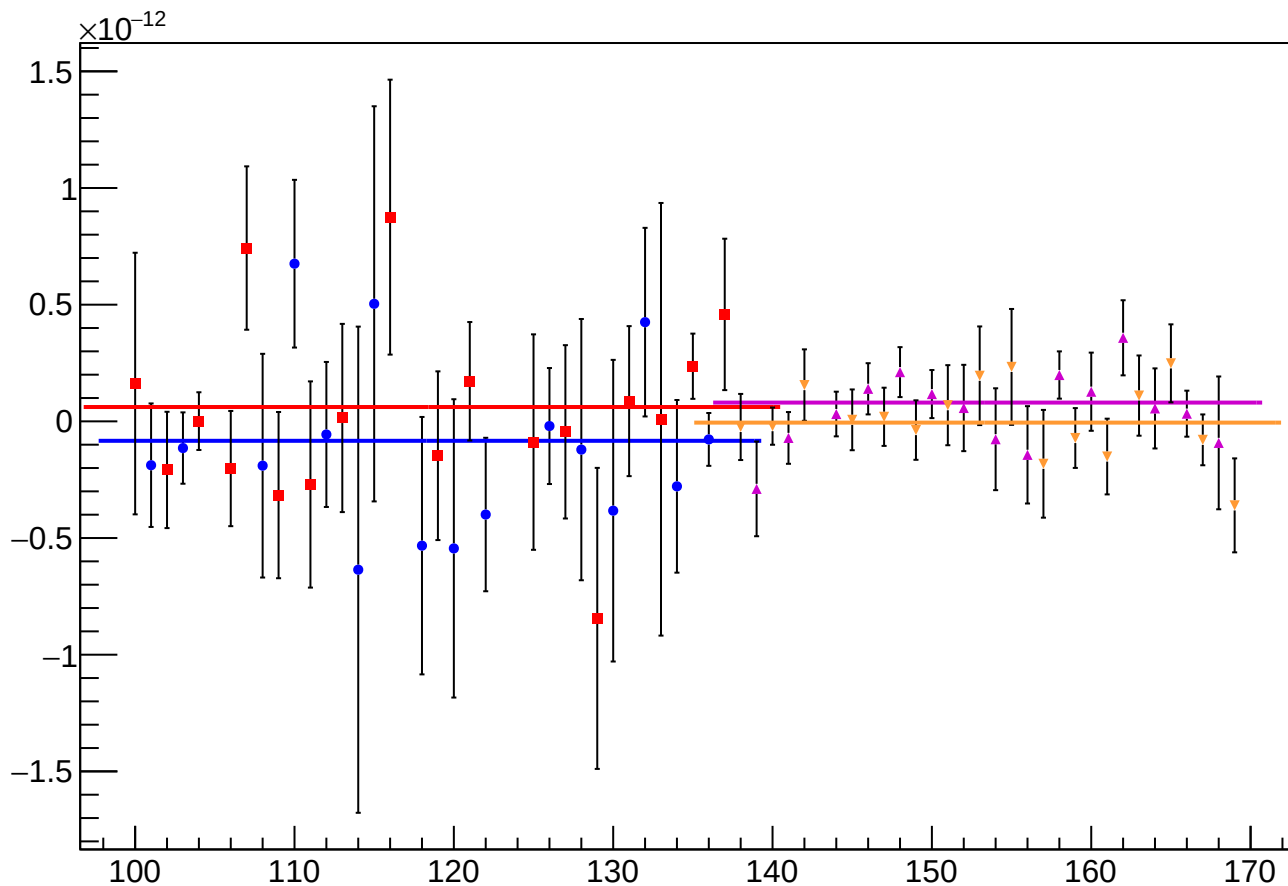
Right: 247.407 $\pm$ 0.050 χ^2 /NDF: 3416901.3/33

In: 349.360 $\pm$ 0.062 χ^2 /NDF: 6858866.7/30

Out: 314.112 $\pm$ 0.058 χ^2 /NDF: 9033828.3/33

All: 330.464 $\pm$ 0.043 χ^2 /NDF: 16063245.3/64

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 9.7/15

Left Out: -0.000+/-0.000 χ^2/NDF : 11.3/15

Right Out: 0.000+/-0.000 χ^2/NDF : 15.7/17

Left In: 0.000+/-0.000 χ^2/NDF : 14.1/14

Left: 0.000+/-0.000 χ^2/NDF : 28.4/30

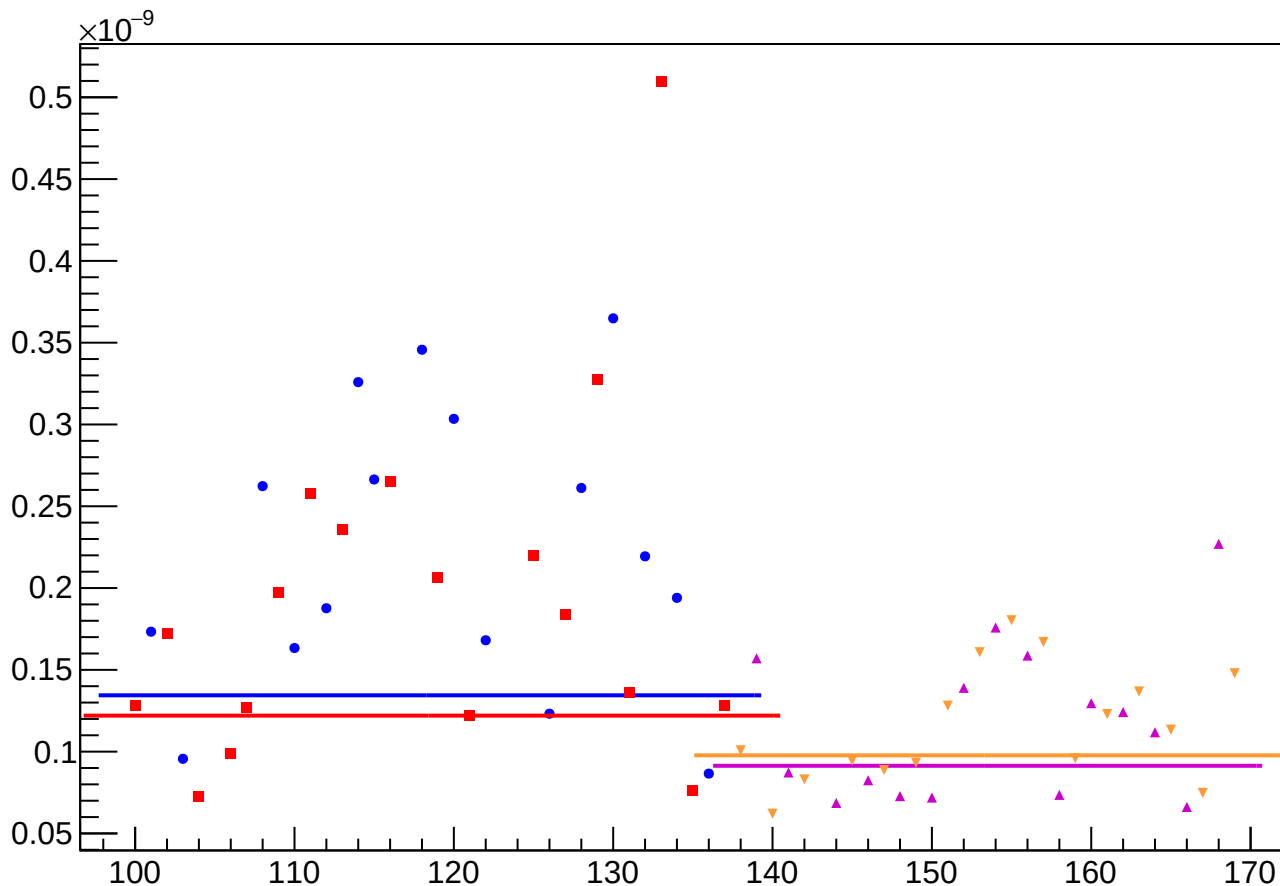
Right: -0.000+/-0.000 χ^2/NDF : 27.8/33

In: 0.000+/-0.000 χ^2/NDF : 28.3/30

Out: 0.000+/-0.000 χ^2/NDF : 27.8/33

All: 0.000+/-0.000 χ^2/NDF : 57.0/64

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1814968.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1457402.6/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2003381.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 1972663.3/14

Left: 0.000+/-0.000 χ^2/NDF : 3464185.4/30

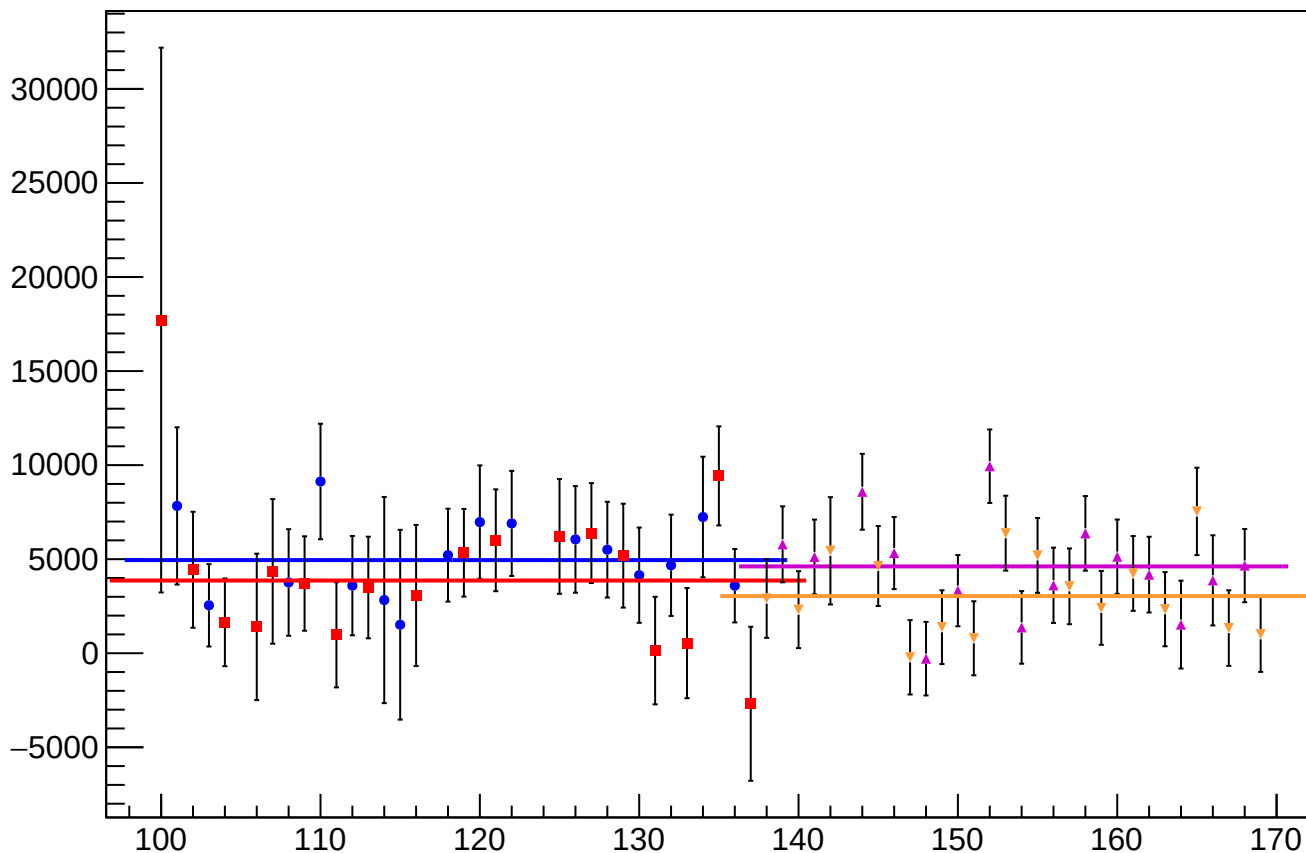
Right: 0.000+/-0.000 χ^2/NDF : 3852912.0/33

In: 0.000+/-0.000 χ^2/NDF : 4415987.3/30

Out: 0.000+/-0.000 χ^2/NDF : 3678749.4/33

All: 0.000+/-0.000 χ^2/NDF : 8108705.0/64

reg_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4950.321+/-698.937 χ^2/NDF : 6.8/15

Left Out: 3036.710+/-513.686 χ^2/NDF : 16.3/15

Right Out: 3865.145+/-695.781 χ^2/NDF : 16.2/17

Left In: 4615.748+/-518.751 χ^2/NDF : 24.4/14

Left: 3818.484+/-365.008 χ^2/NDF : 45.4/30

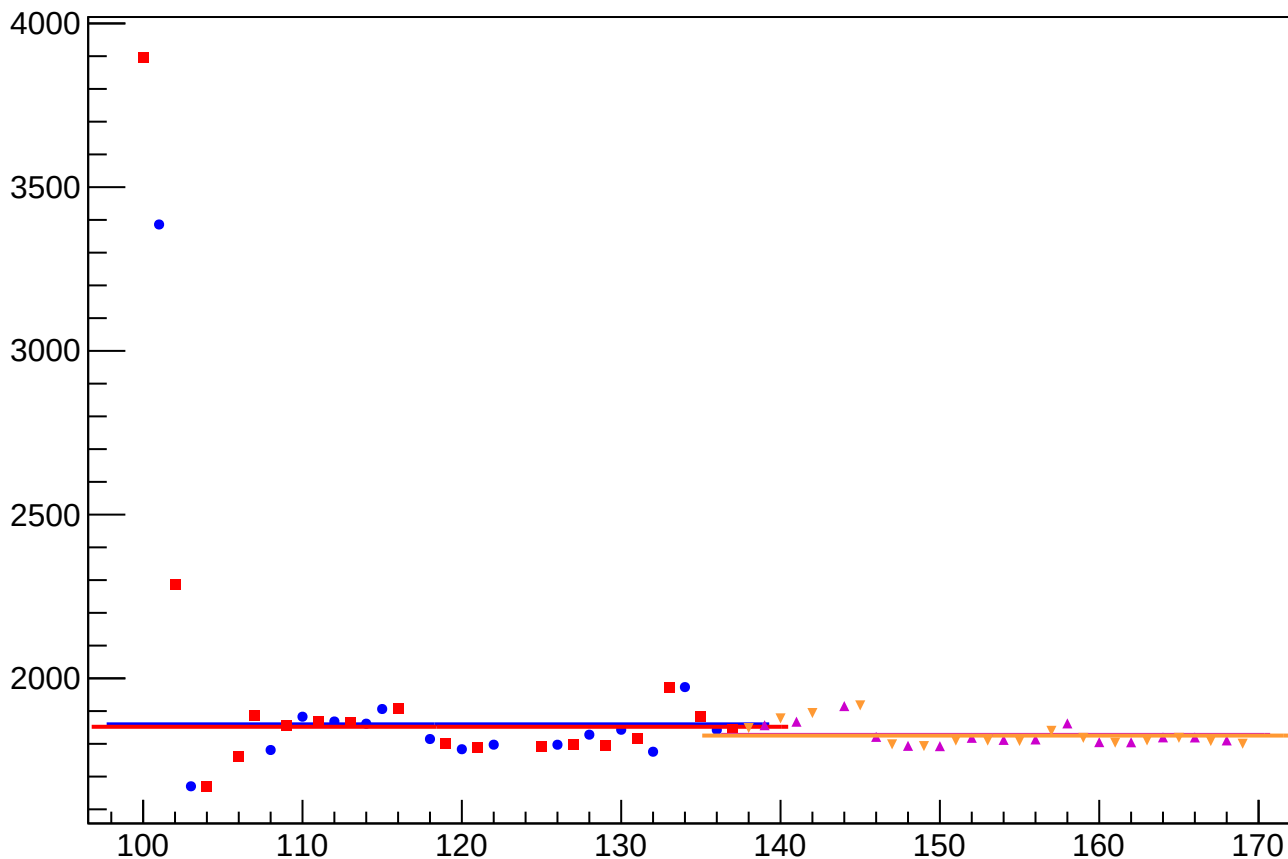
Right: 4405.277+/-493.103 χ^2/NDF : 24.2/33

In: 4734.587+/-416.555 χ^2/NDF : 31.4/30

Out: 3328.965+/-413.261 χ^2/NDF : 33.4/33

All: 4026.196+/-293.377 χ^2/NDF : 70.5/64

reg_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1859.509 $\pm$ 0.494 χ^2 /NDF: 292334.6/15

Left Out: 1825.233 $\pm$ 0.363 χ^2 /NDF: 8709.4/15

Right Out: 1852.065 $\pm$ 0.490 χ^2 /NDF: 102212.5/17

Left In: 1827.272 $\pm$ 0.367 χ^2 /NDF: 7895.3/14

Left: 1826.243 $\pm$ 0.258 χ^2 /NDF: 16620.3/30

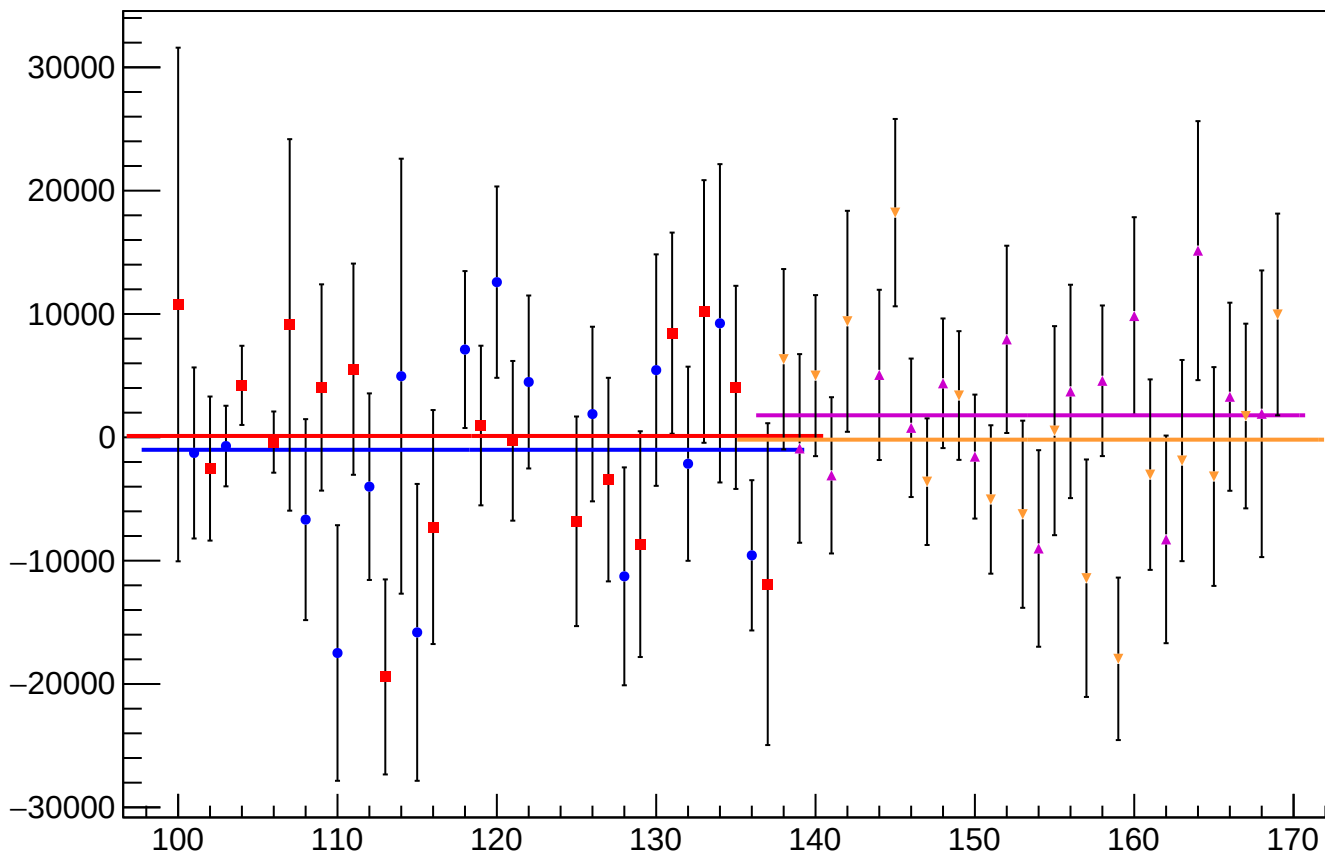
Right: 1855.759 $\pm$ 0.348 χ^2 /NDF: 394661.4/33

In: 1838.723 $\pm$ 0.295 χ^2 /NDF: 302973.4/30

Out: 1834.736 $\pm$ 0.292 χ^2 /NDF: 112854.5/33

All: 1836.711 $\pm$ 0.207 χ^2 /NDF: 415920.3/64

asym_us_avg_atlr_avg_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1010.288+/-1764.180 χ^2/NDF : 14.7/15

Left Out: -189.130+/-1776.984 χ^2/NDF : 21.2/15

Right Out: 111.261+/-1438.515 χ^2/NDF : 14.6/17

Left In: 1786.325+/-1804.249 χ^2/NDF : 8.5/14

Left: 783.559+/-1266.047 χ^2/NDF : 30.3/30

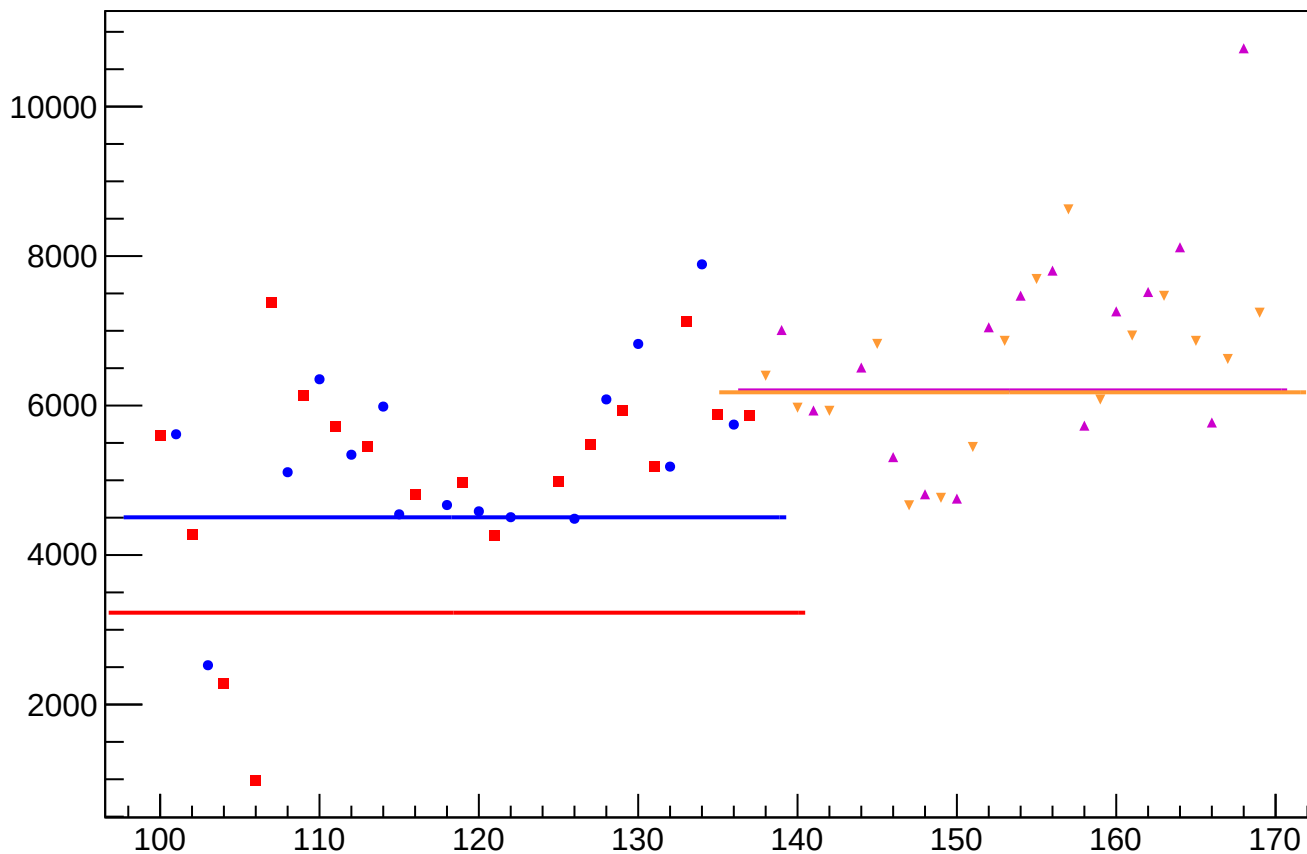
Right: -336.636+/-1114.867 χ^2/NDF : 29.6/33

In: 356.621+/-1261.392 χ^2/NDF : 24.5/30

Out: -7.661+/-1118.077 χ^2/NDF : 35.8/33

All: 152.618+/-836.701 χ^2/NDF : 60.4/64

asym_us_avg_atlr_avg_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 4504.788+/-1.247 χ^2/NDF : 1321104.9/15

Left Out: 6177.304+/-1.257 χ^2/NDF : 701996.2/15

Right Out: 3228.605+/-1.017 χ^2/NDF : 3956397.6/17

Left In: 6202.715+/-1.276 χ^2/NDF : 1009058.5/14

Left: 6189.816+/-0.895 χ^2/NDF : 1711256.0/30

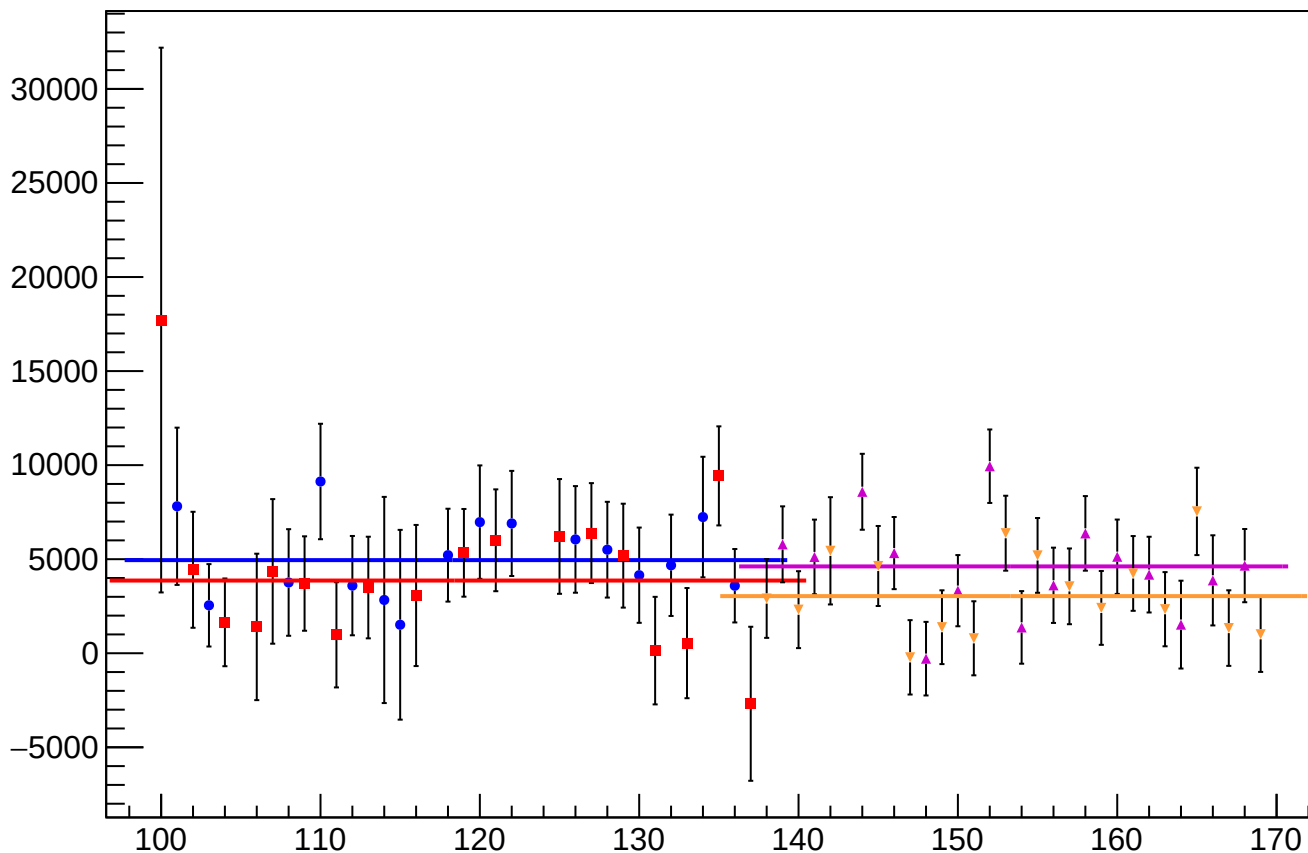
Right: 3738.256+/-0.788 χ^2/NDF : 5906121.0/33

In: 5334.689+/-0.892 χ^2/NDF : 3235665.0/30

Out: 4395.971+/-0.791 χ^2/NDF : 7985285.7/33

All: 4808.996+/-0.592 χ^2/NDF : 11841244.5/66

cor_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4949.838 $\pm$ 698.937 χ^2/NDF : 6.8/15

Left Out: 3036.578 $\pm$ 513.686 χ^2/NDF : 16.3/15

Right Out: 3864.930 $\pm$ 695.781 χ^2/NDF : 16.2/17

Left In: 4615.868 $\pm$ 518.751 χ^2/NDF : 24.4/14

Left: 3818.477 $\pm$ 365.008 χ^2/NDF : 45.4/30

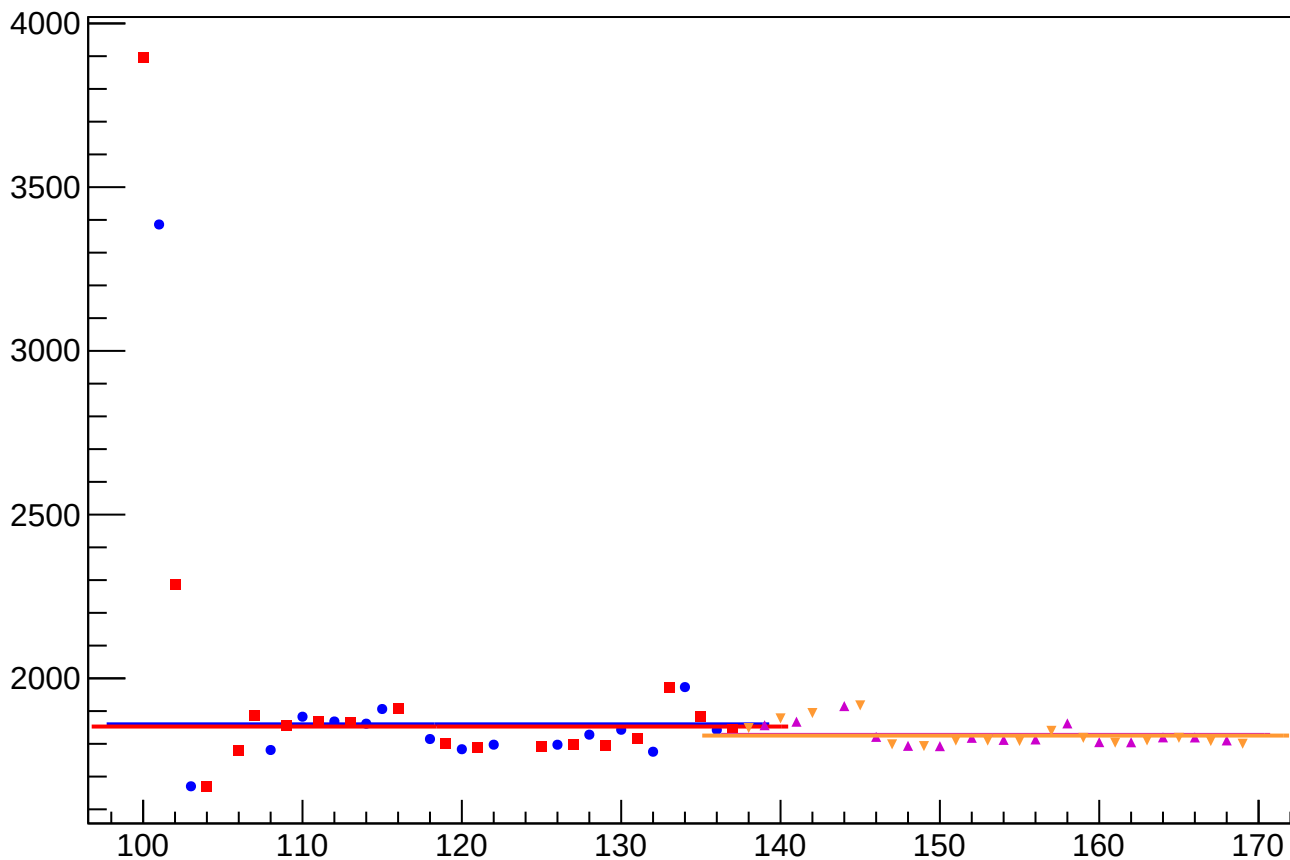
Right: 4404.929 $\pm$ 493.103 χ^2/NDF : 24.2/33

In: 4734.493 $\pm$ 416.555 χ^2/NDF : 31.4/30

Out: 3328.804 $\pm$ 413.261 χ^2/NDF : 33.4/33

All: 4026.068 $\pm$ 293.377 χ^2/NDF : 70.5/64

cor_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1859.509 $\pm$ 0.494 χ^2 /NDF: 292336.5/15

Left Out: 1825.233 $\pm$ 0.363 χ^2 /NDF: 8709.4/15

Right Out: 1852.770 $\pm$ 0.491 χ^2 /NDF: 101750.5/17

Left In: 1827.272 $\pm$ 0.367 χ^2 /NDF: 7895.3/14

Left: 1826.243 $\pm$ 0.258 χ^2 /NDF: 16620.3/30

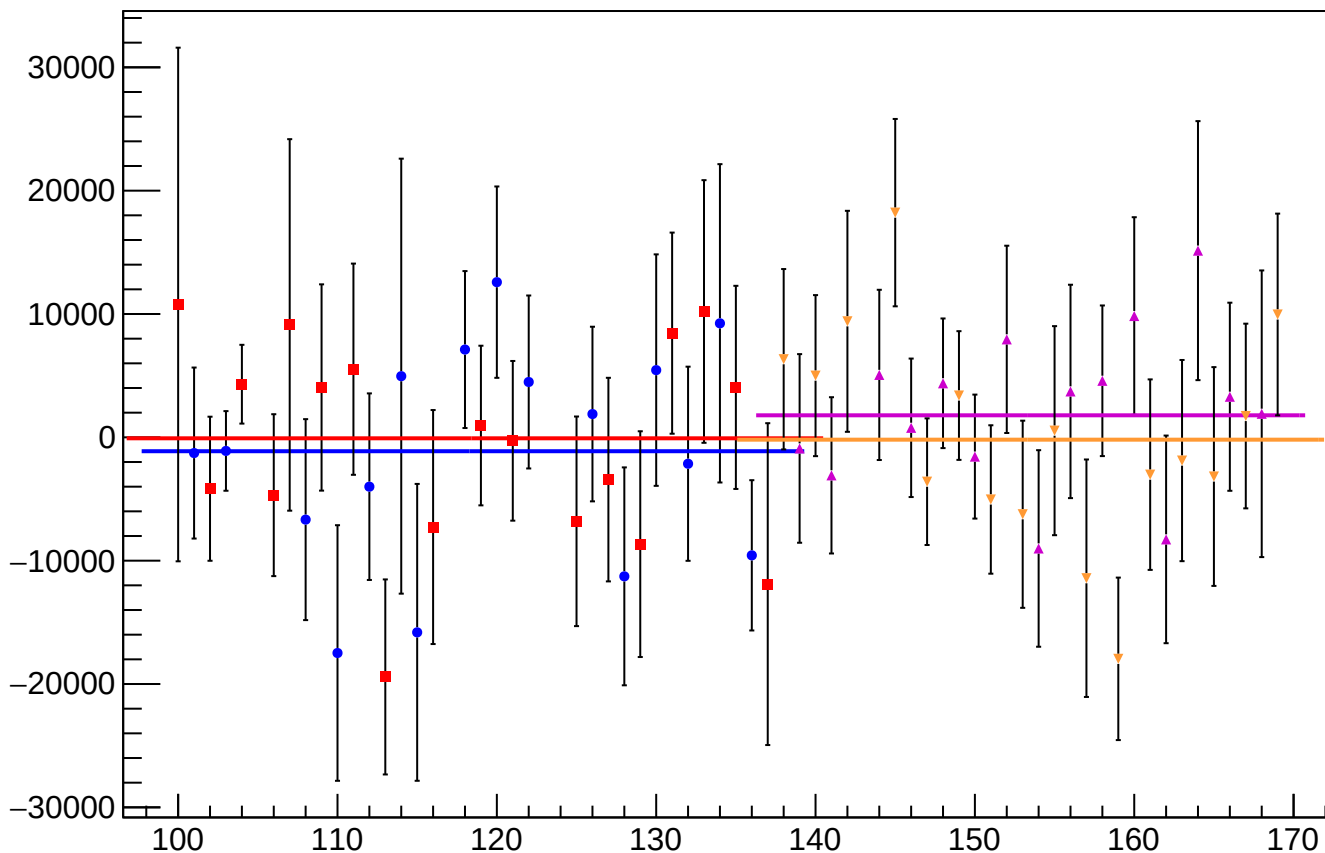
Right: 1856.115 $\pm$ 0.348 χ^2 /NDF: 394180.6/33

In: 1838.723 $\pm$ 0.295 χ^2 /NDF: 302975.3/30

Out: 1834.982 $\pm$ 0.292 χ^2 /NDF: 112494.6/33

All: 1836.836 $\pm$ 0.207 χ^2 /NDF: 415551.2/64

asym_us_avg_atlr_avg_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1125.567 $\pm$ 1757.876 χ^2 /NDF: 14.7/15

Left Out: -189.201 $\pm$ 1776.982 χ^2 /NDF:21.2/15

Right Out: -78.270 $\pm$ 1702.444 χ^2 /NDF: 15.5/17

Left In: 1786.497 $\pm$ 1804.249 χ^2 /NDF:8.5/14

Left: 783.606 $\pm$ 1266.046 χ^2 /NDF: 30.3/30

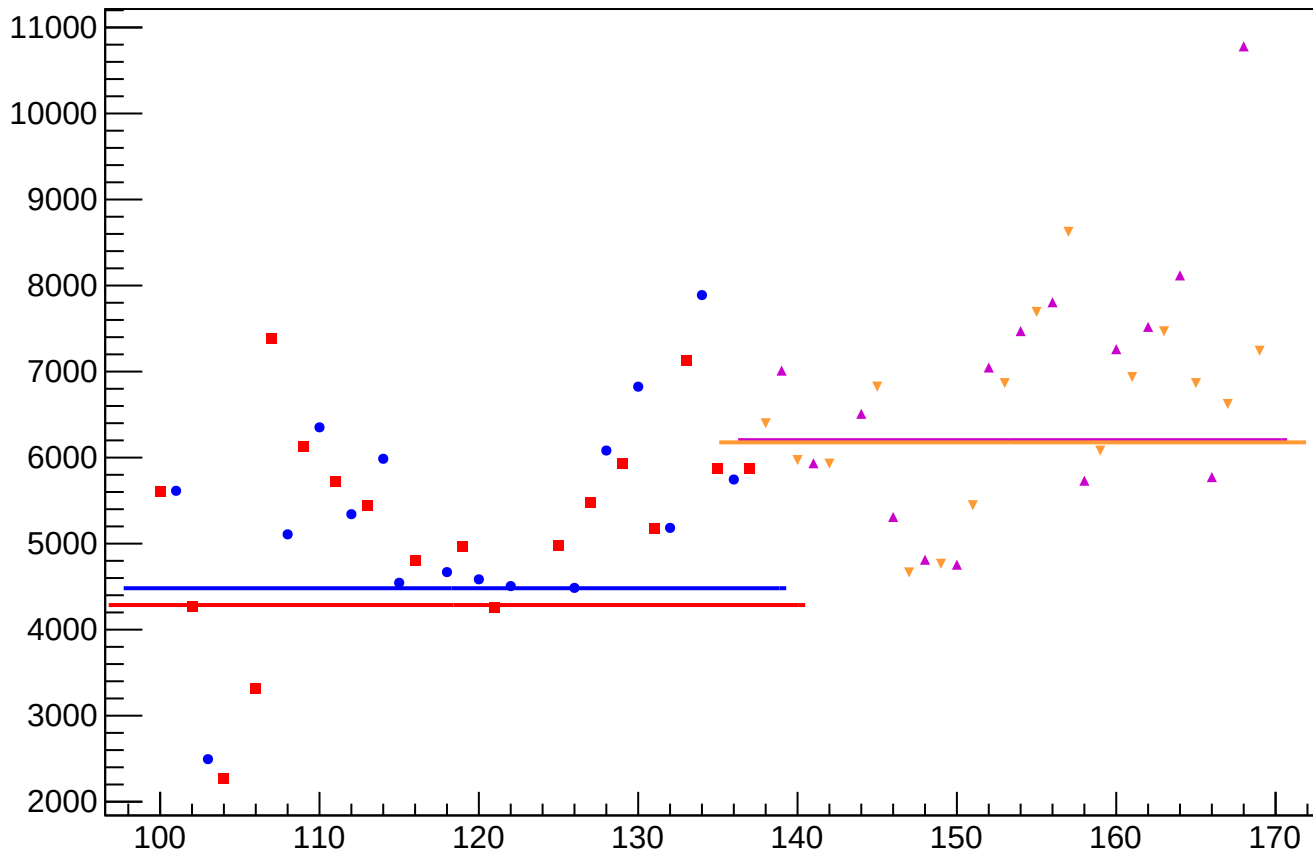
Right: -585.146 $\pm$ 1222.937 χ^2 /NDF: 30.5/33

In: 292.561 $\pm$ 1259.081 χ^2 /NDF:24.6/30

Out: -131.360 $\pm$ 1229.316 χ^2 /NDF:36.7/33

All: 75.530 $\pm$ 879.593 χ^2 /NDF: 61.4/64

asym_us_avg_atlr_avg_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 4481.518+/-1.243 χ^2/NDF : 1362255.0/15

Left Out: 6177.297+/-1.257 χ^2/NDF : 702001.4/15

Right Out: 4286.125+/-1.204 χ^2/NDF : 1549852.7/17

Left In: 6202.715+/-1.276 χ^2/NDF : 1009066.0/14

Left: 6189.812+/-0.895 χ^2/NDF : 1711268.9/30

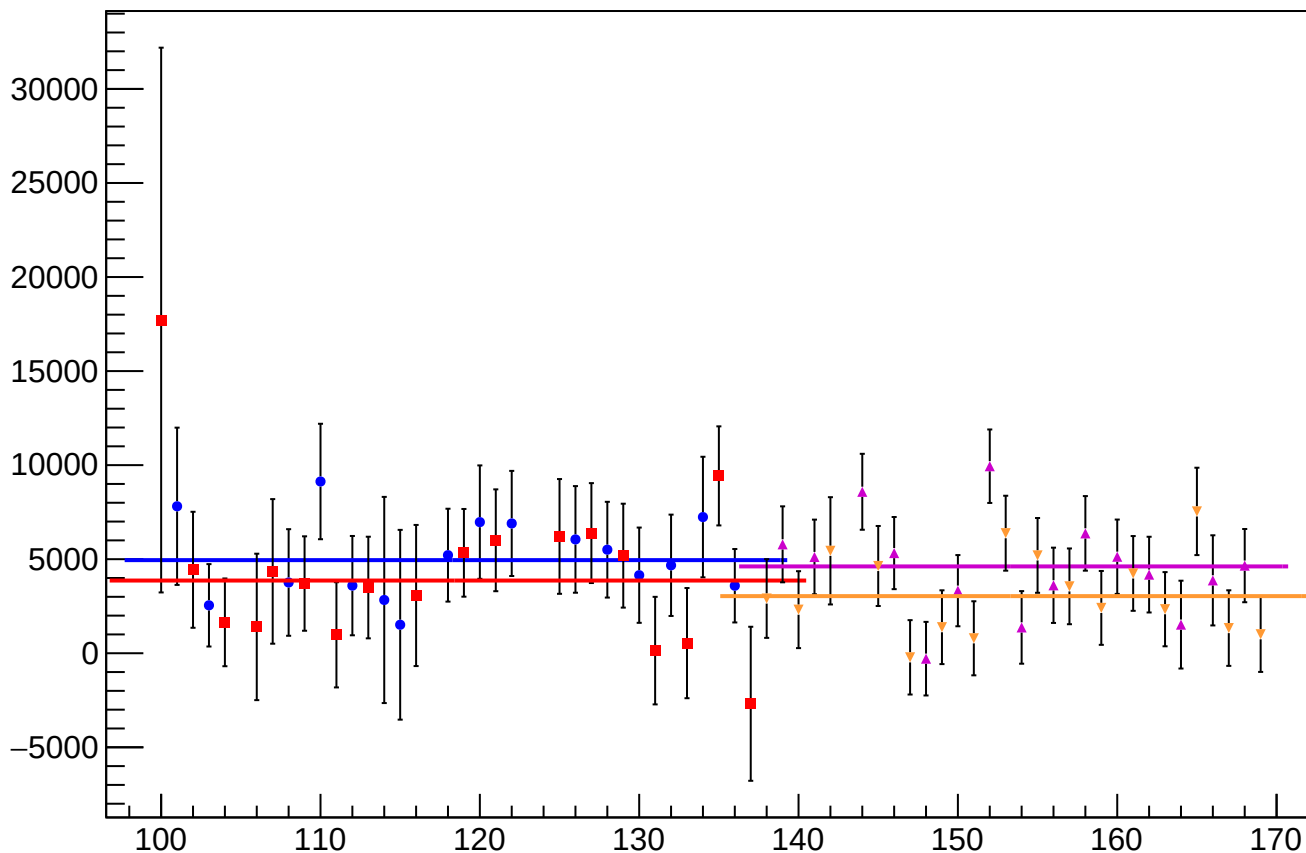
Right: 4380.692+/-0.865 χ^2/NDF : 2924858.4/33

In: 5319.713+/-0.890 χ^2/NDF : 3305067.7/30

Out: 5191.216+/-0.869 χ^2/NDF : 3433010.5/33

All: 5253.928+/-0.622 χ^2/NDF : 6748742.8/64

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 4949.838 $\pm$ 698.937 χ^2 /NDF: 6.8/15

Left Out: 3036.578 $\pm$ 513.686 χ^2 /NDF:16.3/15

Right Out: 3864.930 $\pm$ 695.781 χ^2 /NDF: 16.2/17

Left In: 4615.868 $\pm$ 518.751 χ^2 /NDF:24.4/14

Left: 3818.477 $\pm$ 365.008 χ^2 /NDF: 45.4/30

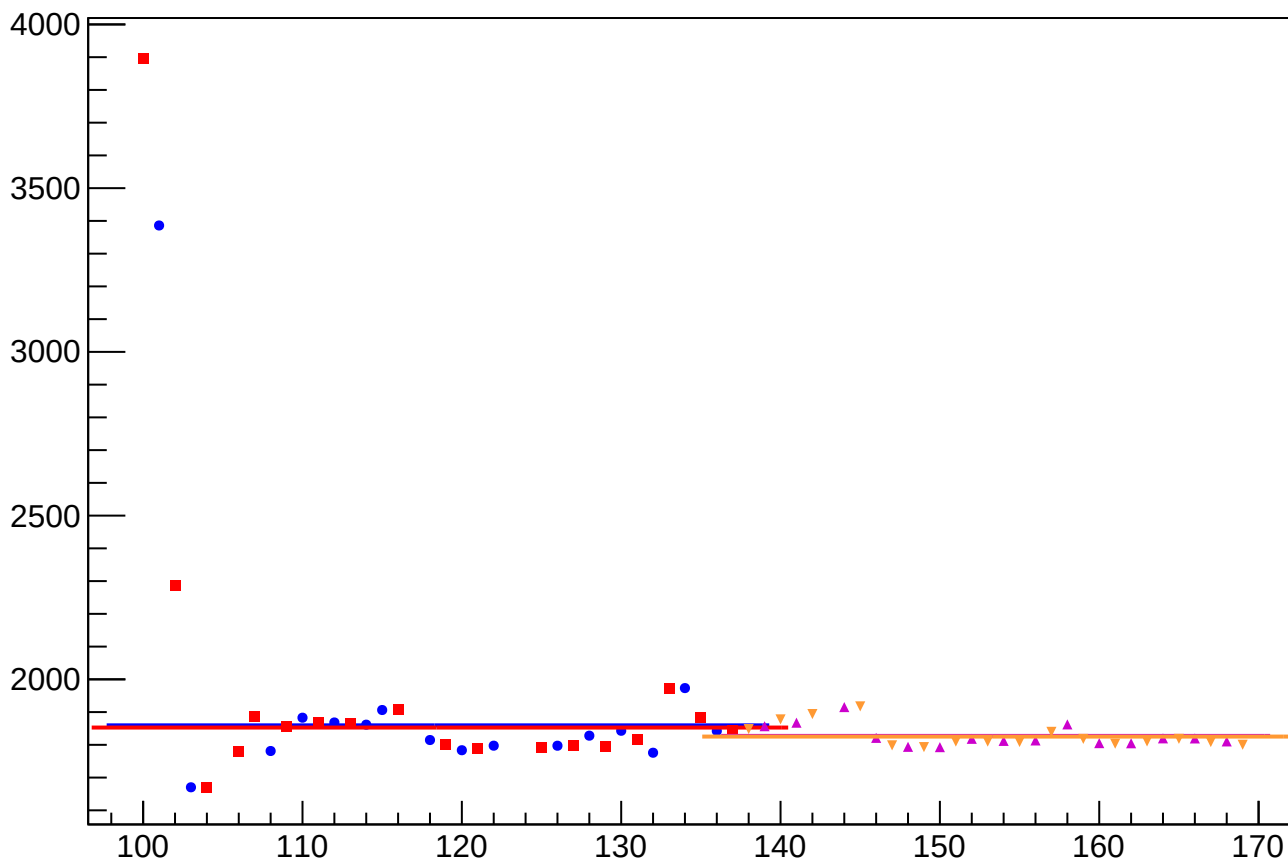
Right: 4404.929 $\pm$ 493.103 χ^2 /NDF: 24.2/33

In: 4734.493 $\pm$ 416.555 χ^2 /NDF:31.4/30

Out: 3328.804 $\pm$ 413.261 χ^2 /NDF:33.4/33

All: 4026.068 $\pm$ 293.377 χ^2 /NDF: 70.5/64

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1859.509+/-0.494 χ^2/NDF : 292336.5/15

Left Out: 1825.233+/-0.363 χ^2/NDF : 8709.4/15

Right Out: 1852.770+/-0.491 χ^2/NDF : 101750.5/17

Left In: 1827.272+/-0.367 χ^2/NDF : 7895.3/14

Left: 1826.243+/-0.258 χ^2/NDF : 16620.3/30

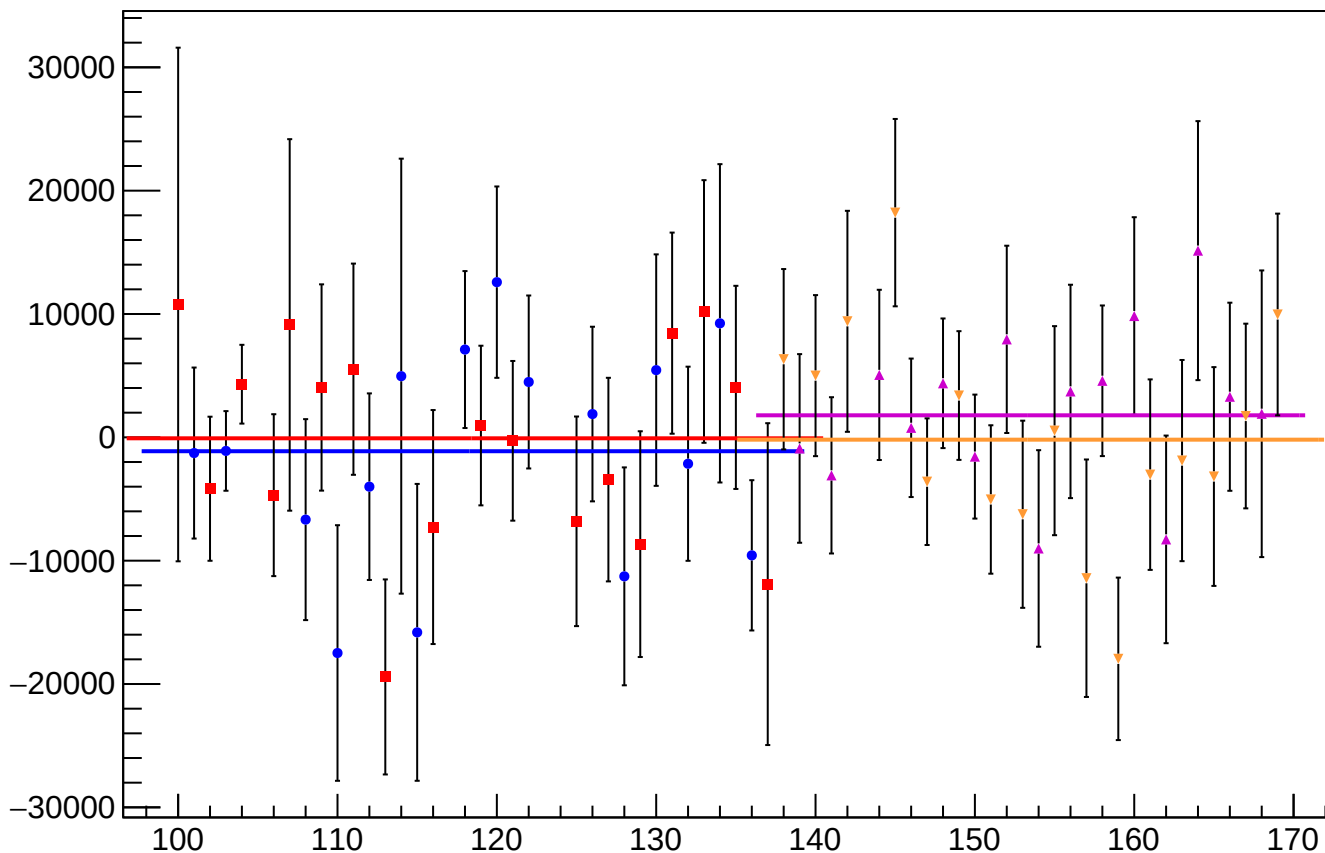
Right: 1856.115+/-0.348 χ^2/NDF : 394180.6/33

In: 1838.723+/-0.295 χ^2/NDF : 302975.3/30

Out: 1834.982+/-0.292 χ^2/NDF : 112494.6/33

All: 1836.836+/-0.207 χ^2/NDF : 415551.2/64

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1125.567+/-1757.876 χ^2/NDF : 14.7/15

Left Out: -189.201+/-1776.982 χ^2/NDF : 21.2/15

Right Out: -78.270+/-1702.444 χ^2/NDF : 15.5/17

Left In: 1786.497+/-1804.249 χ^2/NDF : 8.5/14

Left: 783.606+/-1266.046 χ^2/NDF : 30.3/30

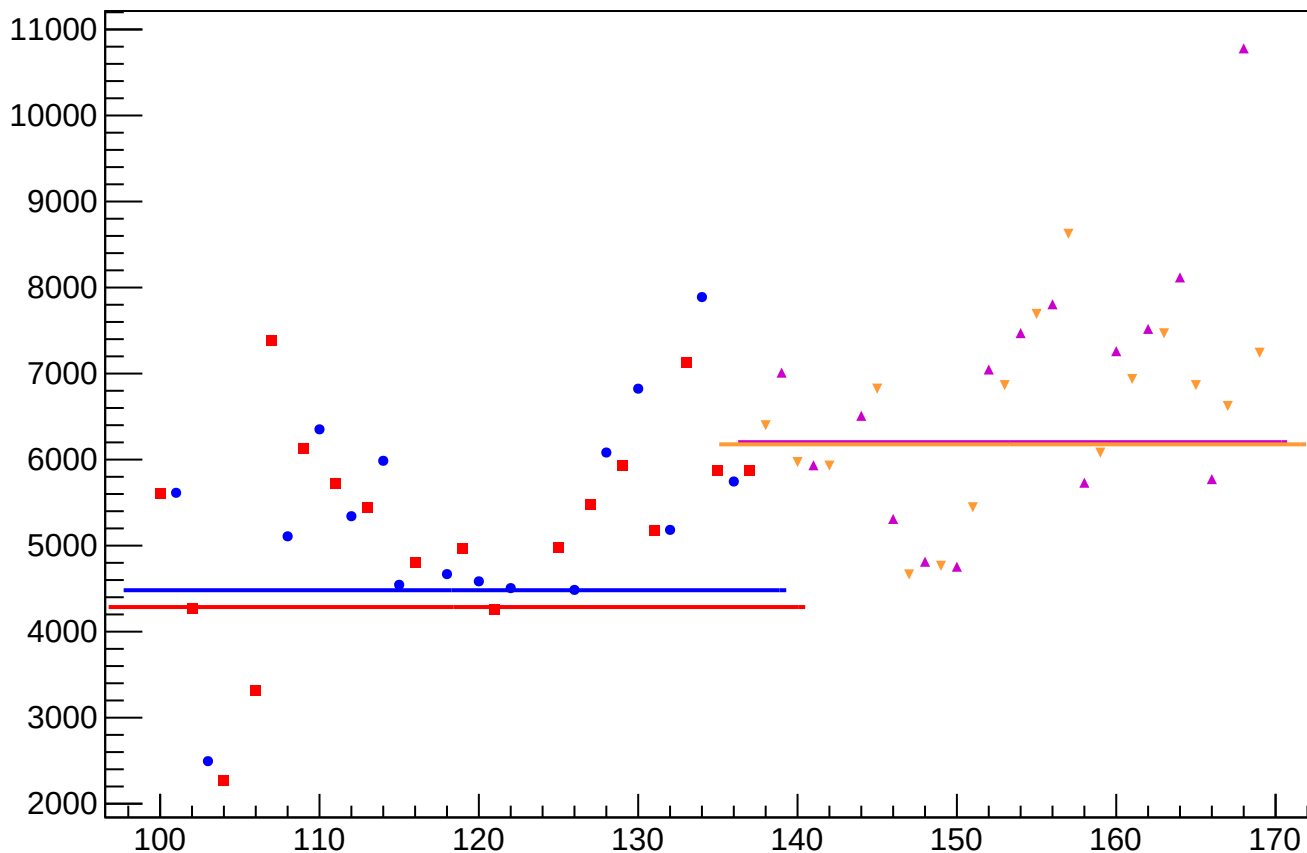
Right: -585.146+/-1222.937 χ^2/NDF : 30.5/33

In: 292.561+/-1259.081 χ^2/NDF : 24.6/30

Out: -131.360+/-1229.316 χ^2/NDF : 36.7/33

All: 75.530+/-879.593 χ^2/NDF : 61.4/64

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 4481.518+/-1.243 χ^2/NDF : 1362255.0/15

Left Out: 6177.297+/-1.257 χ^2/NDF : 702001.4/15

Right Out: 4286.125+/-1.204 χ^2/NDF : 1549852.7/17

Left In: 6202.715+/-1.276 χ^2/NDF : 1009066.0/14

Left: 6189.812+/-0.895 χ^2/NDF : 1711268.9/30

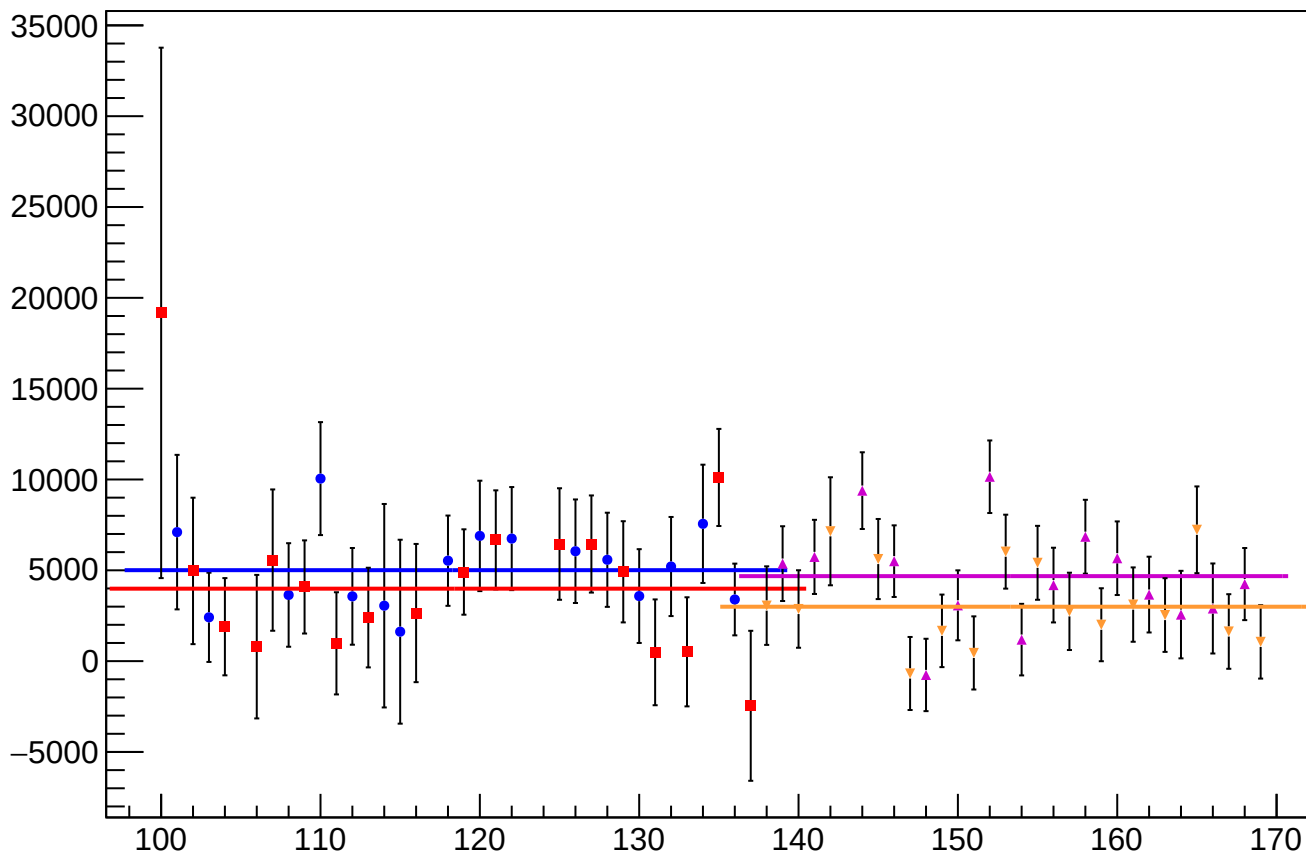
Right: 4380.692+/-0.865 χ^2/NDF : 2924858.4/33

In: 5319.713+/-0.890 χ^2/NDF : 3305067.7/30

Out: 5191.216+/-0.869 χ^2/NDF : 3433010.5/33

All: 5253.928+/-0.622 χ^2/NDF : 6748742.8/64

dit_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5007.315+/-714.061 χ^2/NDF : 7.7/15

Left Out: 2995.659+/-527.955 χ^2/NDF : 17.2/15

Right Out: 3989.193+/-719.024 χ^2/NDF : 17.4/17

Left In: 4679.314+/-532.365 χ^2/NDF : 27.3/14

Left: 3830.484+/-374.870 χ^2/NDF : 49.6/30

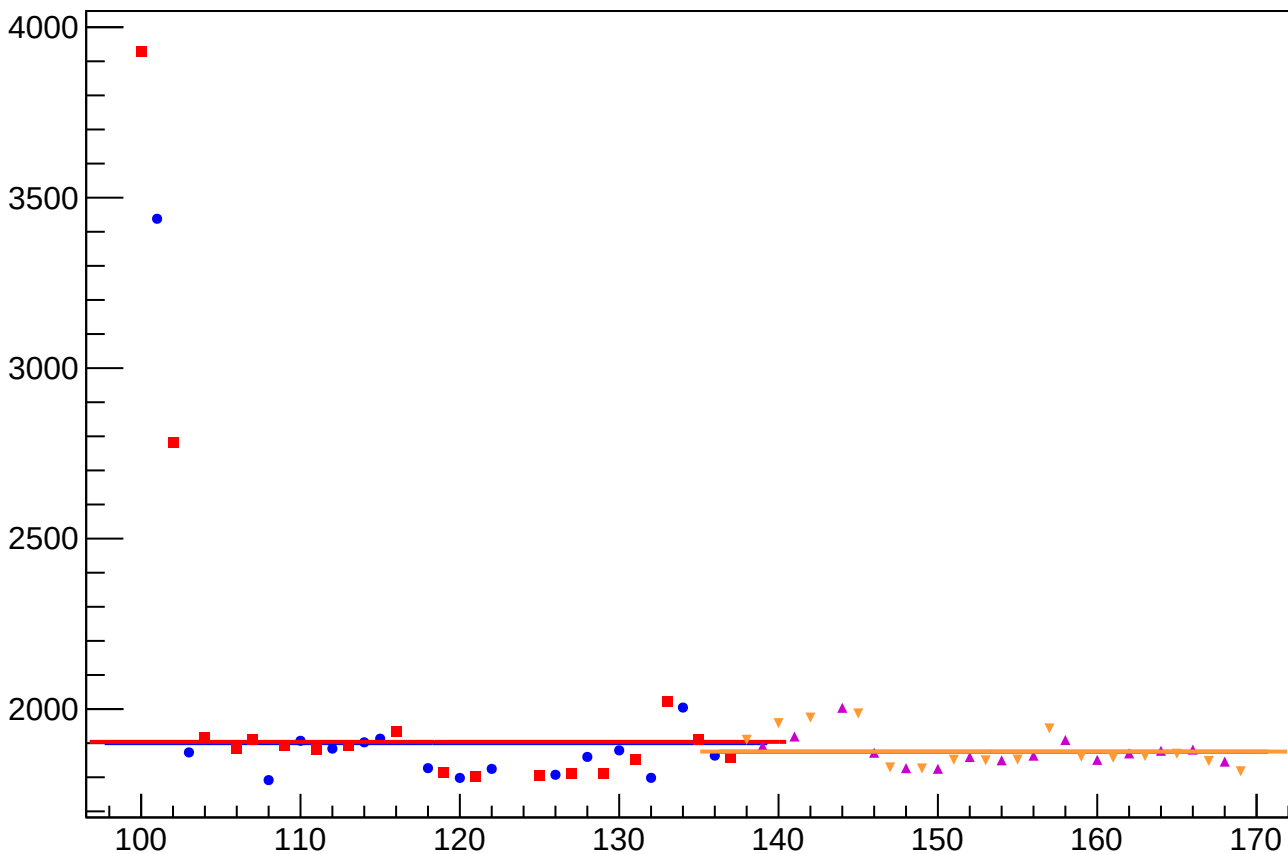
Right: 4501.780+/-506.663 χ^2/NDF : 26.0/33

In: 4796.496+/-426.803 χ^2/NDF : 35.1/30

Out: 3343.683+/-425.556 χ^2/NDF : 35.8/33

All: 4067.964+/-301.354 χ^2/NDF : 76.8/64

dit_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1900.111+/-0.505 χ^2/NDF : 278448.2/15

Left Out: 1875.336+/-0.373 χ^2/NDF : 18531.1/15

Right Out: 1903.827+/-0.508 χ^2/NDF : 150115.8/17

Left In: 1874.864+/-0.376 χ^2/NDF : 12882.4/14

Left: 1875.102+/-0.265 χ^2/NDF : 31414.3/30

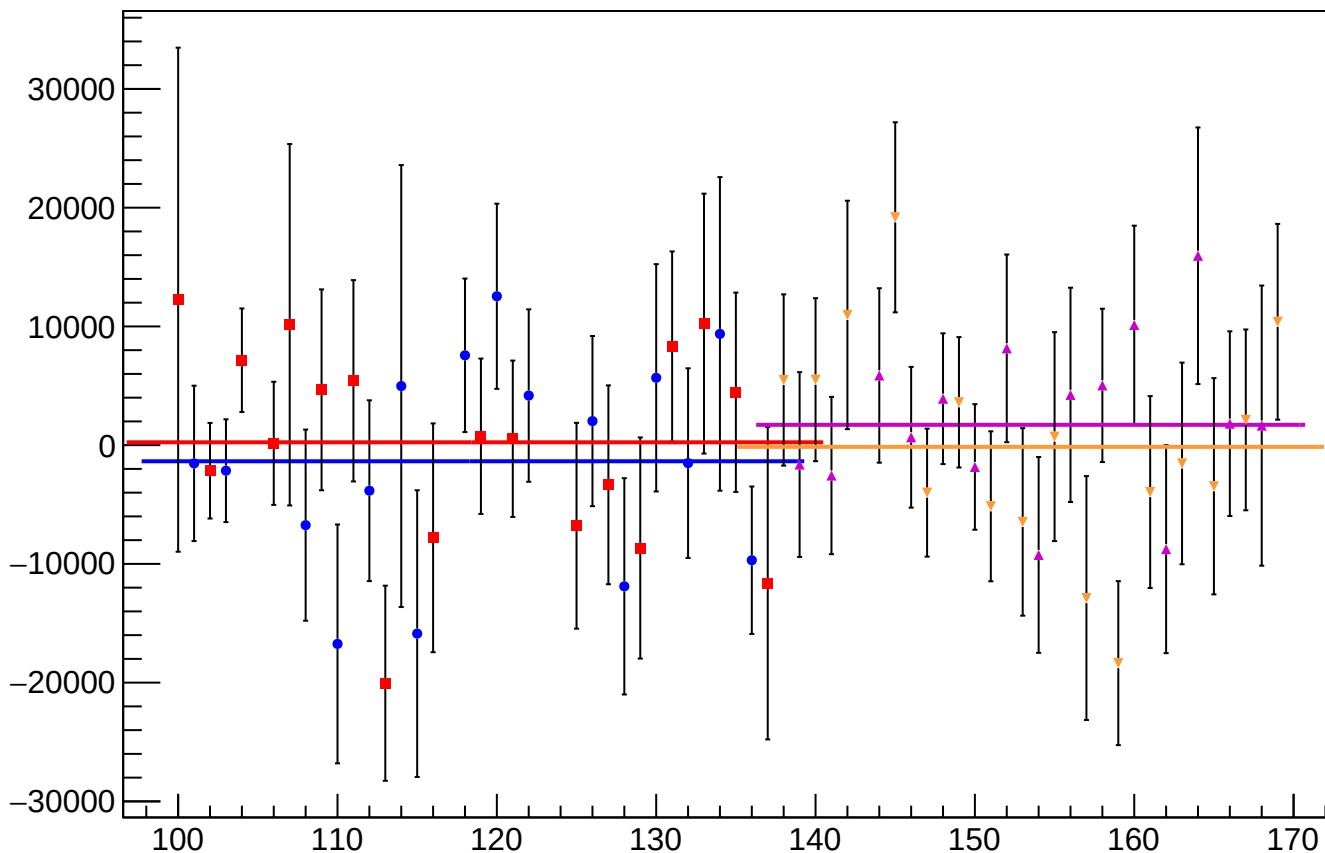
Right: 1901.958+/-0.358 χ^2/NDF : 428591.0/33

In: 1883.884+/-0.302 χ^2/NDF : 292937.7/30

Out: 1885.330+/-0.301 χ^2/NDF : 170689.9/33

All: 1884.610+/-0.213 χ^2/NDF : 463639.2/64

asym_us_avg_atlr_avg_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1356.615+/-1895.990 χ^2/NDF : 14.7/15

Left Out: -142.870+/-1850.084 χ^2/NDF : 21.3/15

Right Out: 241.153+/-1712.681 χ^2/NDF : 15.7/17

Left In: 1711.798+/-1884.304 χ^2/NDF : 8.5/14

Left: 767.470+/-1320.139 χ^2/NDF : 30.3/30

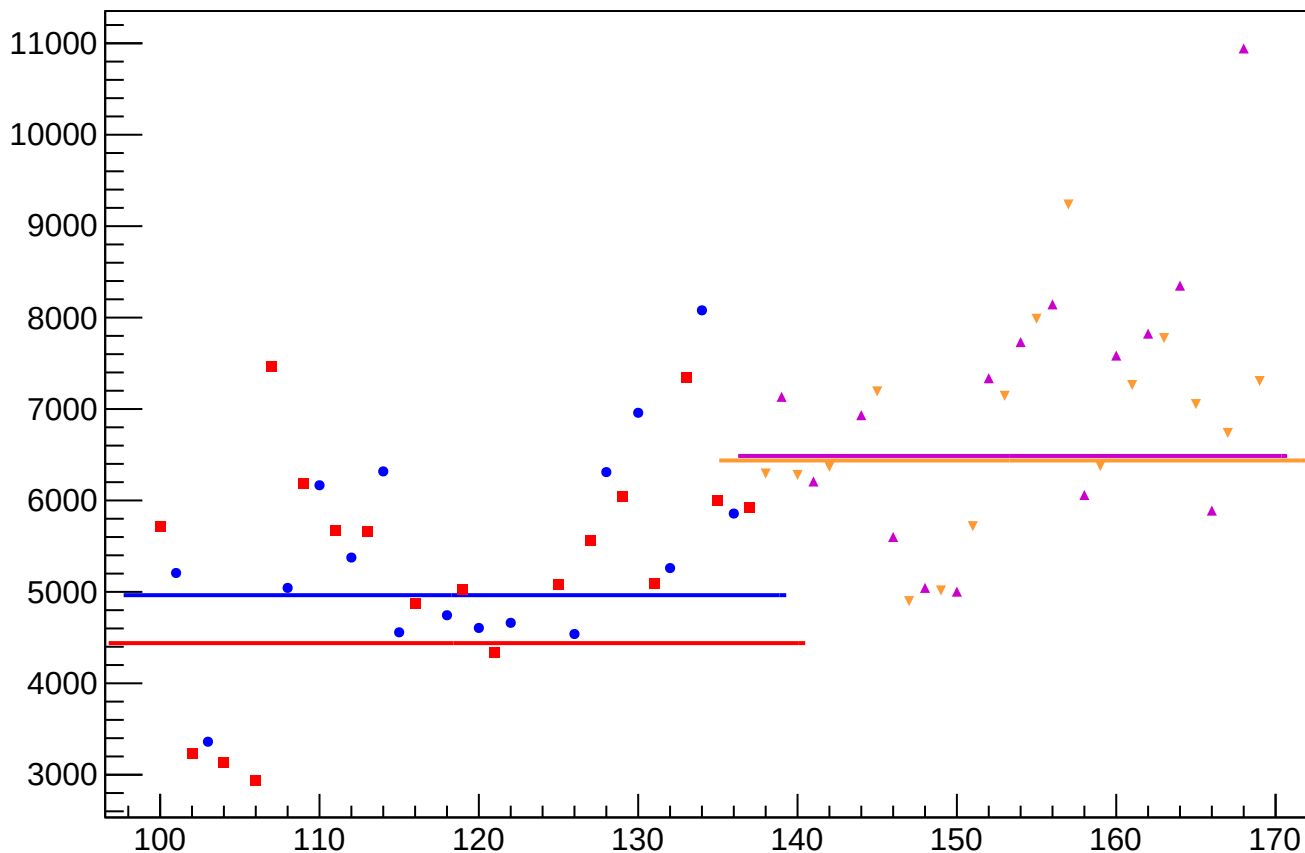
Right: -476.778+/-1270.927 χ^2/NDF : 30.8/33

In: 187.077+/-1336.517 χ^2/NDF : 24.5/30

Out: 63.930+/-1256.820 χ^2/NDF : 37.1/33

All: 121.722+/-915.585 χ^2/NDF : 61.6/64

asym_us_avg_atlr_avg_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 4963.998 $\pm$ 1.341 χ^2 /NDF: 627377.0/15

Left Out: 6437.248 $\pm$ 1.308 χ^2 /NDF: 674640.8/15

Right Out: 4439.675 $\pm$ 1.211 χ^2 /NDF: 1158510.1/17

Left In: 6486.761 $\pm$ 1.332 χ^2 /NDF: 947180.8/14

Left: 6461.551 $\pm$ 0.933 χ^2 /NDF: 1622524.7/30

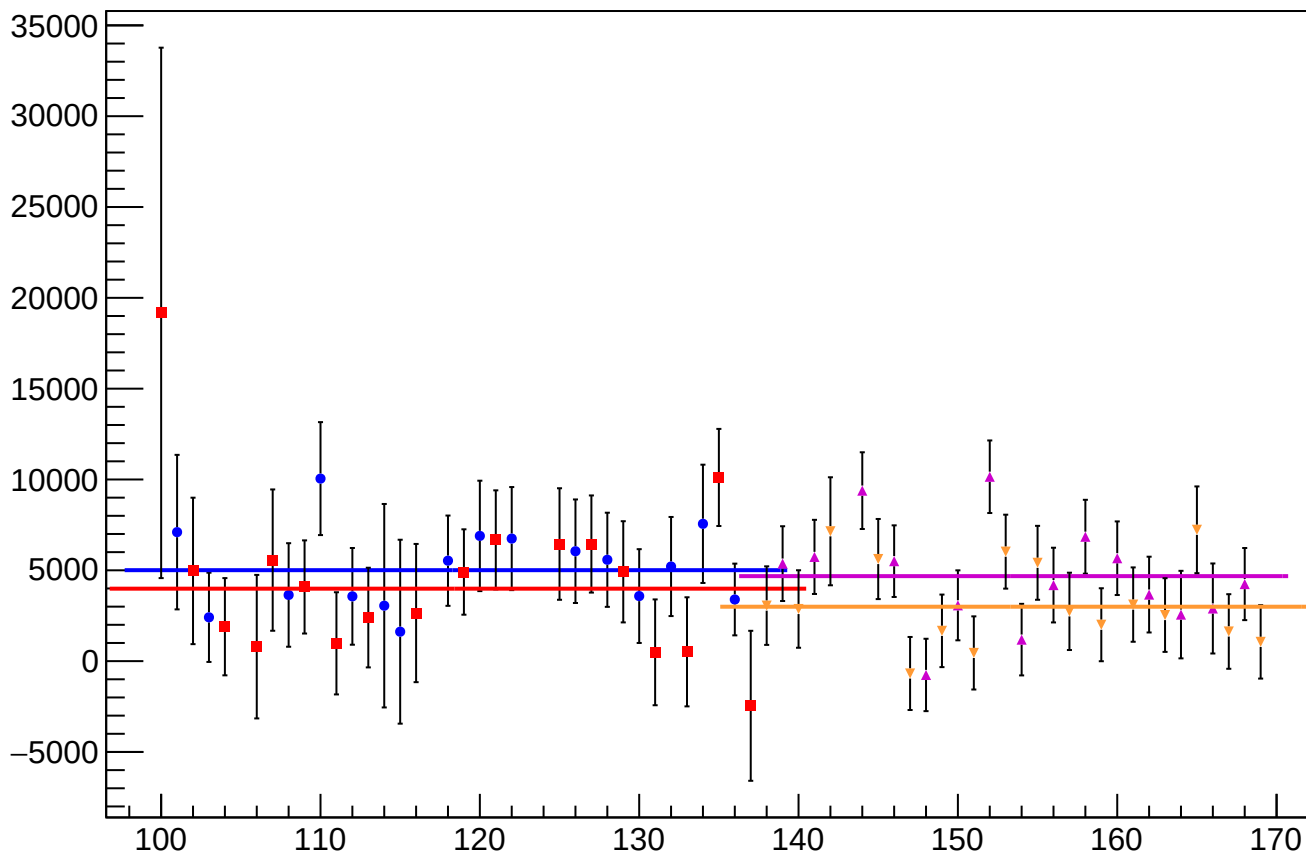
Right: 4675.271 $\pm$ 0.899 χ^2 /NDF: 1870112.9/33

In: 5730.087 $\pm$ 0.945 χ^2 /NDF: 2223594.2/30

Out: 5361.537 $\pm$ 0.889 χ^2 /NDF: 3088734.8/33

All: 5534.496 $\pm$ 0.647 χ^2 /NDF: 5393038.6/64

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5007.314+/-714.061 χ^2/NDF : 7.7/15

Left Out: 2995.650+/-527.955 χ^2/NDF : 17.2/15

Right Out: 3989.192+/-719.024 χ^2/NDF : 17.4/17

Left In: 4679.317+/-532.366 χ^2/NDF : 27.3/14

Left: 3830.480+/-374.870 χ^2/NDF : 49.6/30

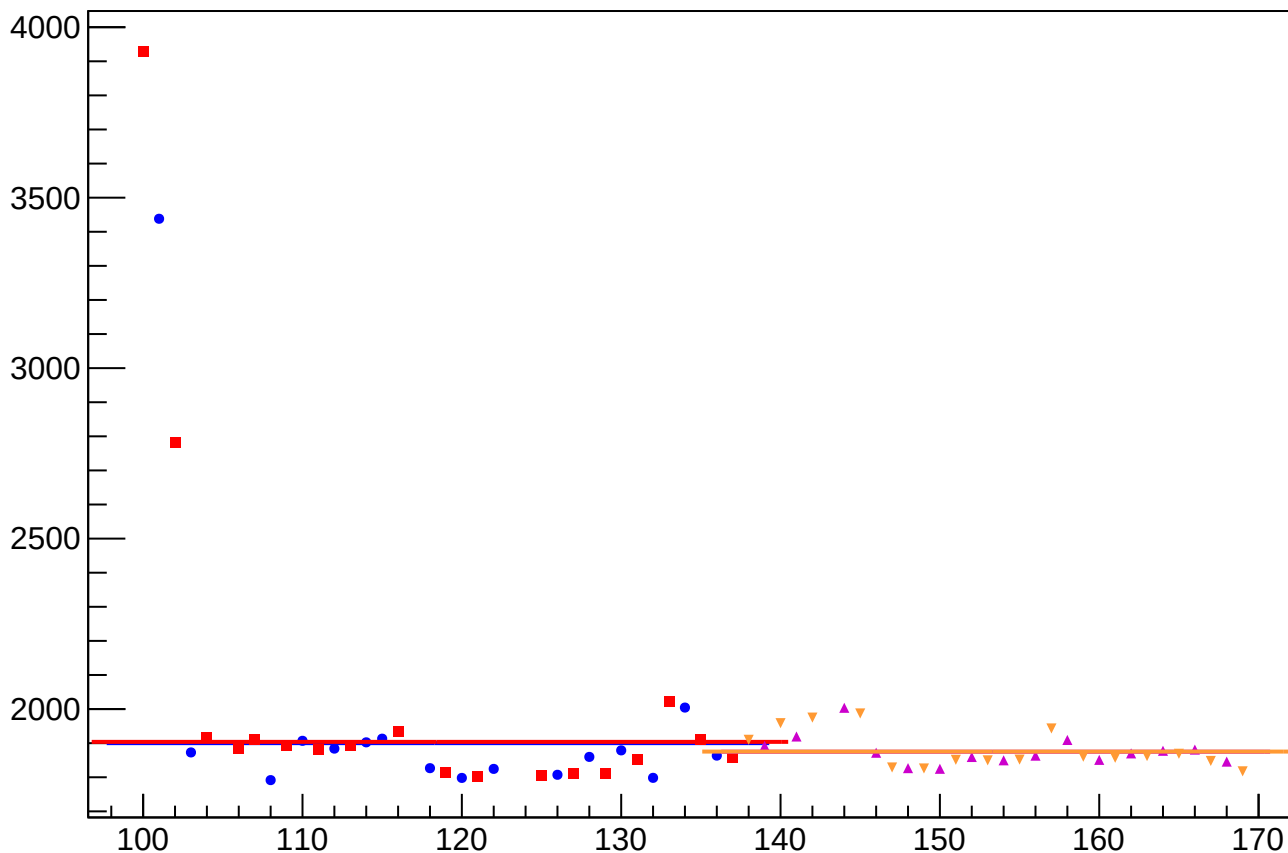
Right: 4501.779+/-506.663 χ^2/NDF : 26.0/33

In: 4796.497+/-426.803 χ^2/NDF : 35.1/30

Out: 3343.677+/-425.556 χ^2/NDF : 35.8/33

All: 4067.962+/-301.354 χ^2/NDF : 76.8/64

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 1900.111+/-0.505 χ^2/NDF : 278448.5/15

Left Out: 1875.338+/-0.373 χ^2/NDF : 18531.4/15

Right Out: 1903.826+/-0.508 χ^2/NDF : 150115.1/17

Left In: 1874.865+/-0.376 χ^2/NDF : 12882.6/14

Left: 1875.104+/-0.265 χ^2/NDF : 31414.7/30

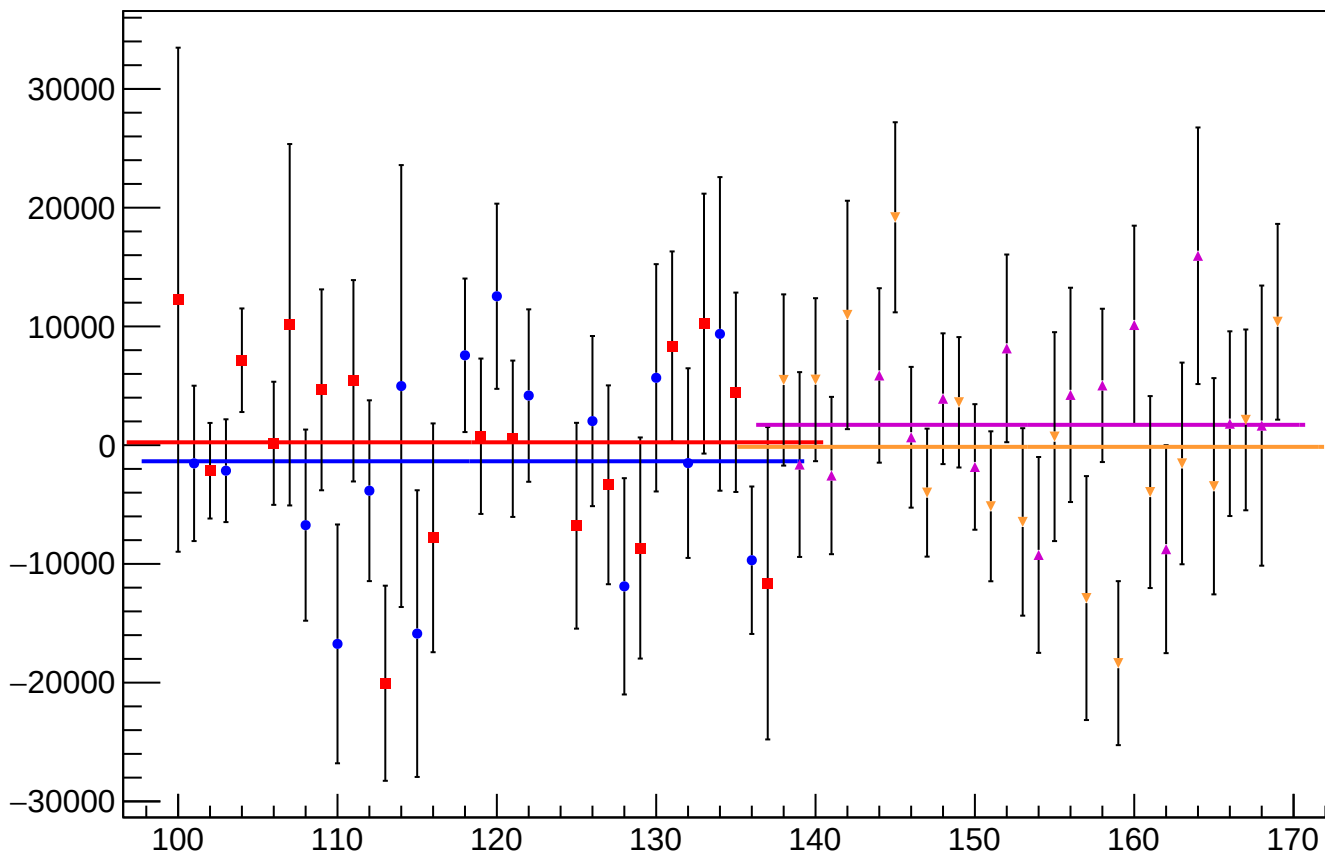
Right: 1901.958+/-0.358 χ^2/NDF : 428590.5/33

In: 1883.885+/-0.302 χ^2/NDF : 292937.8/30

Out: 1885.331+/-0.301 χ^2/NDF : 170689.2/33

All: 1884.610+/-0.213 χ^2/NDF : 463638.6/64

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1356.604 $\pm$ 1895.985 χ^2 /NDF: 14.7/15

Left Out: -142.877 $\pm$ 1850.087 χ^2 /NDF:21.3/15

Right Out: 241.155 $\pm$ 1712.677 χ^2 /NDF: 15.7/17

Left In: 1711.799 $\pm$ 1884.307 χ^2 /NDF:8.5/14

Left: 767.467 $\pm$ 1320.141 χ^2 /NDF: 30.3/30

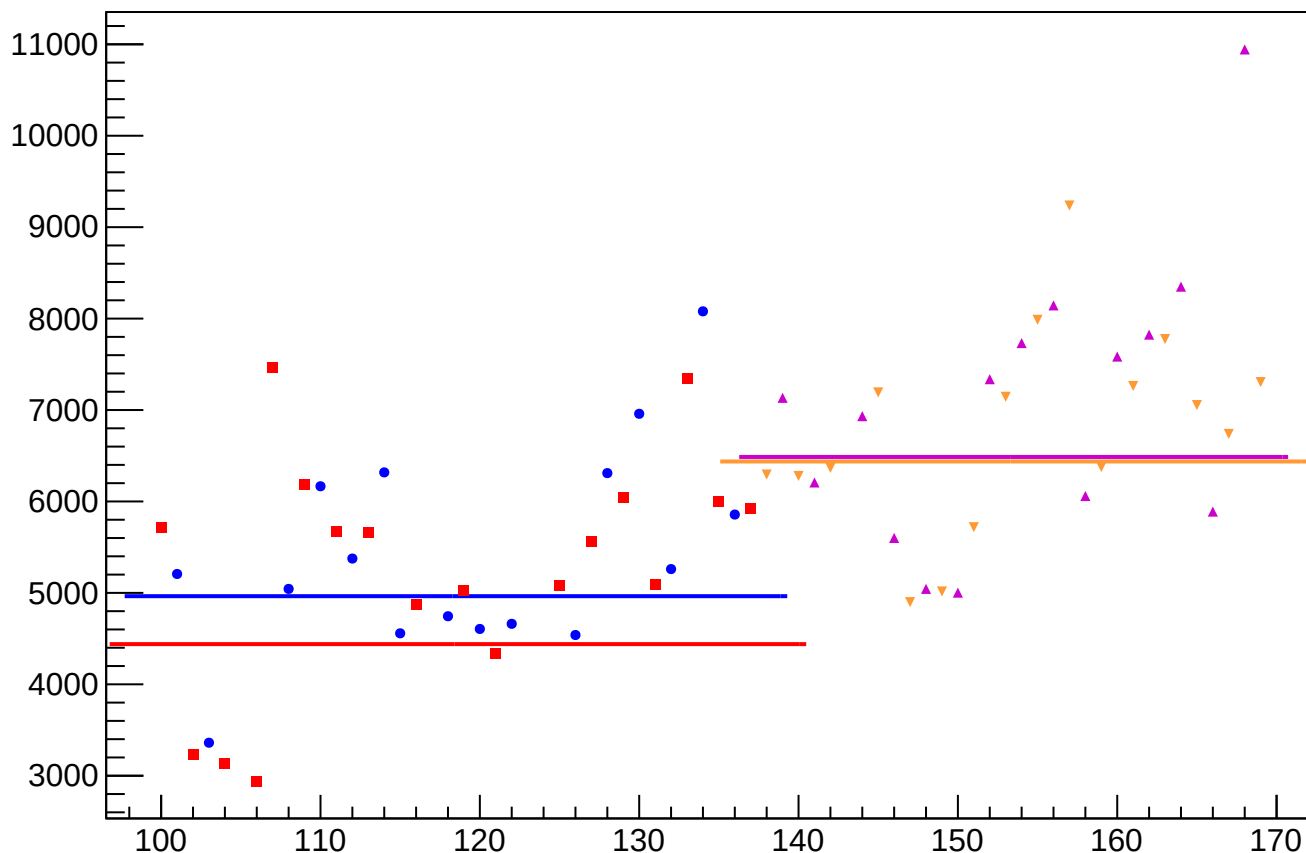
Right: -476.773 $\pm$ 1270.924 χ^2 /NDF: 30.8/33

In: 187.076 $\pm$ 1336.516 χ^2 /NDF:24.5/30

Out: 63.928 $\pm$ 1256.819 χ^2 /NDF:37.1/33

All: 121.721 $\pm$ 915.584 χ^2 /NDF: 61.6/64

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 4963.985+/-1.341 χ^2/NDF : 627379.5/15

Left Out: 6437.258+/-1.308 χ^2/NDF : 674642.9/15

Right Out: 4439.663+/-1.211 χ^2/NDF : 1158509.7/17

Left In: 6486.771+/-1.332 χ^2/NDF : 947182.1/14

Left: 6461.561+/-0.933 χ^2/NDF : 1622528.1/30

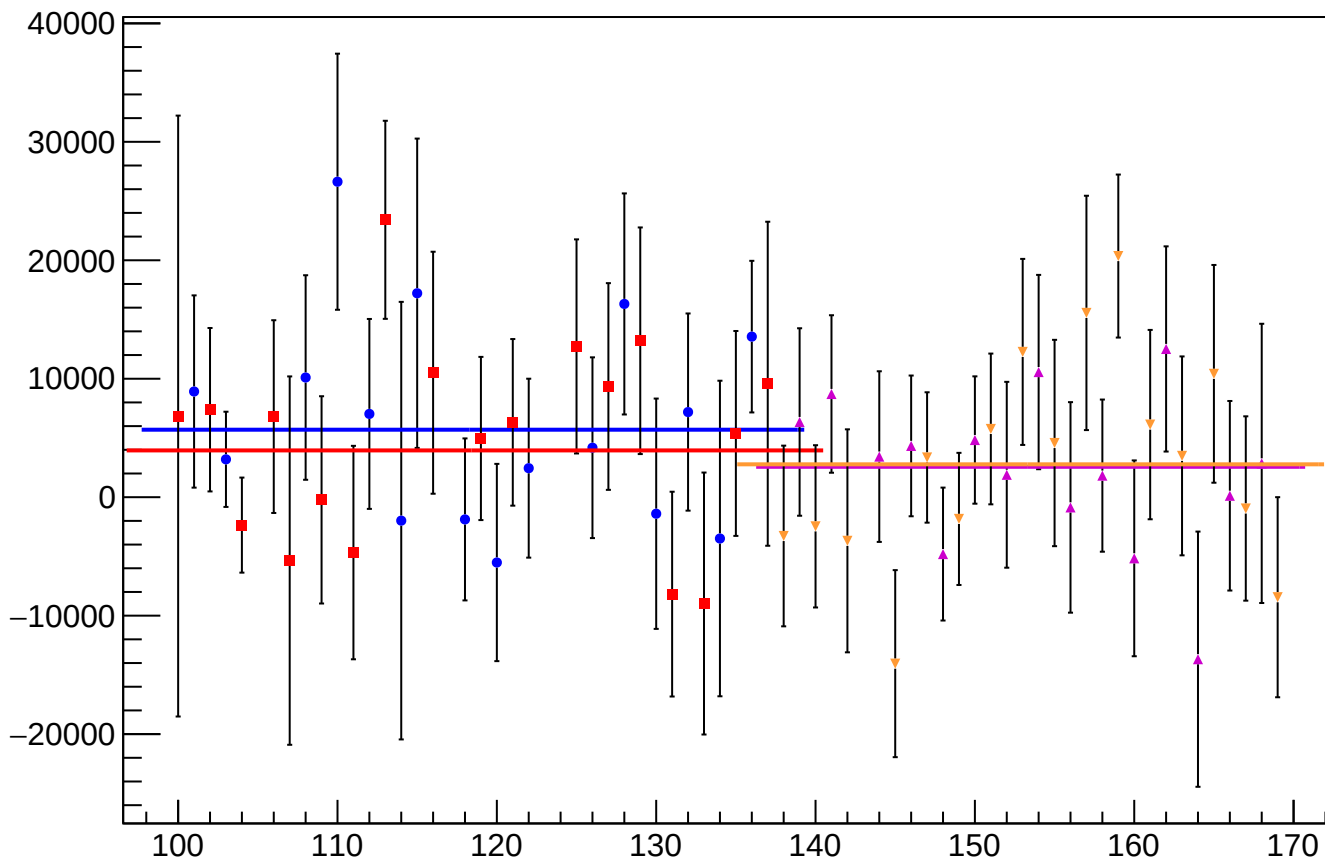
Right: 4675.259+/-0.899 χ^2/NDF : 1870114.9/33

In: 5730.082+/-0.945 χ^2/NDF : 2223618.3/30

Out: 5361.531+/-0.889 χ^2/NDF : 3088763.7/33

All: 5534.491+/-0.647 χ^2/NDF : 5393092.3/64

asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected



Right In: 5697.218+/-1959.214 χ^2/NDF : 12.6/15

Left Out: 2774.974+/-1861.202 χ^2/NDF : 19.7/15

Right Out: 3949.394+/-1920.582 χ^2/NDF : 16.1/17

Left In: 2566.751+/-1889.705 χ^2/NDF : 8.8/14

Left: 2672.444+/-1326.031 χ^2/NDF : 28.5/30

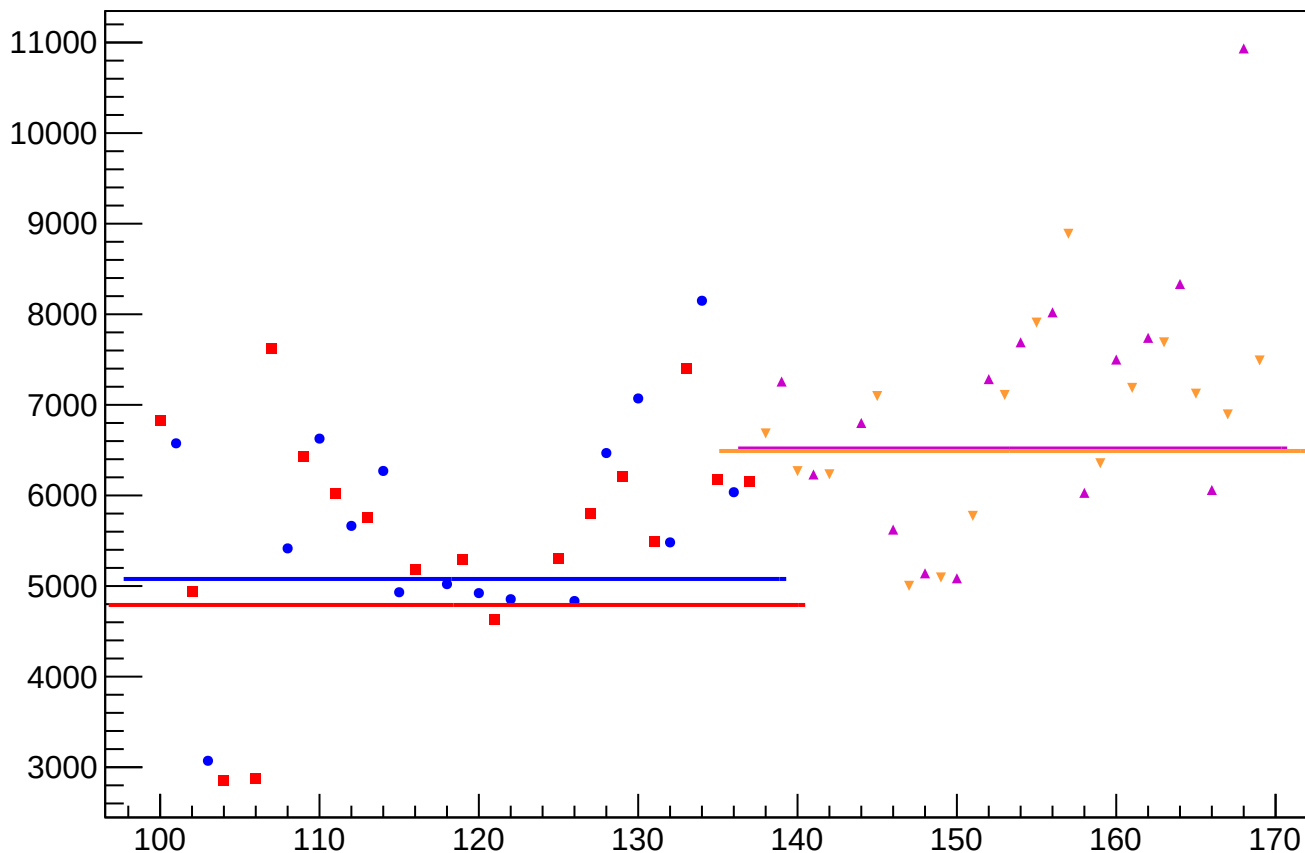
Right: 4805.905+/-1371.511 χ^2/NDF : 29.2/33

In: 4075.469+/-1360.133 χ^2/NDF : 22.7/30

Out: 3343.748+/-1336.568 χ^2/NDF : 36.0/33

All: 3703.215+/-953.319 χ^2/NDF : 58.9/64

asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected



Right In: 5078.157+/-1.385 χ^2/NDF : 919209.4/15

Left Out: 6491.084+/-1.316 χ^2/NDF : 596164.9/15

Right Out: 4791.154+/-1.331 χ^2/NDF : 1162455.3/17

Left In: 6518.339+/-1.336 χ^2/NDF : 873360.0/14

Left: 6504.504+/-0.938 χ^2/NDF : 1469736.0/30

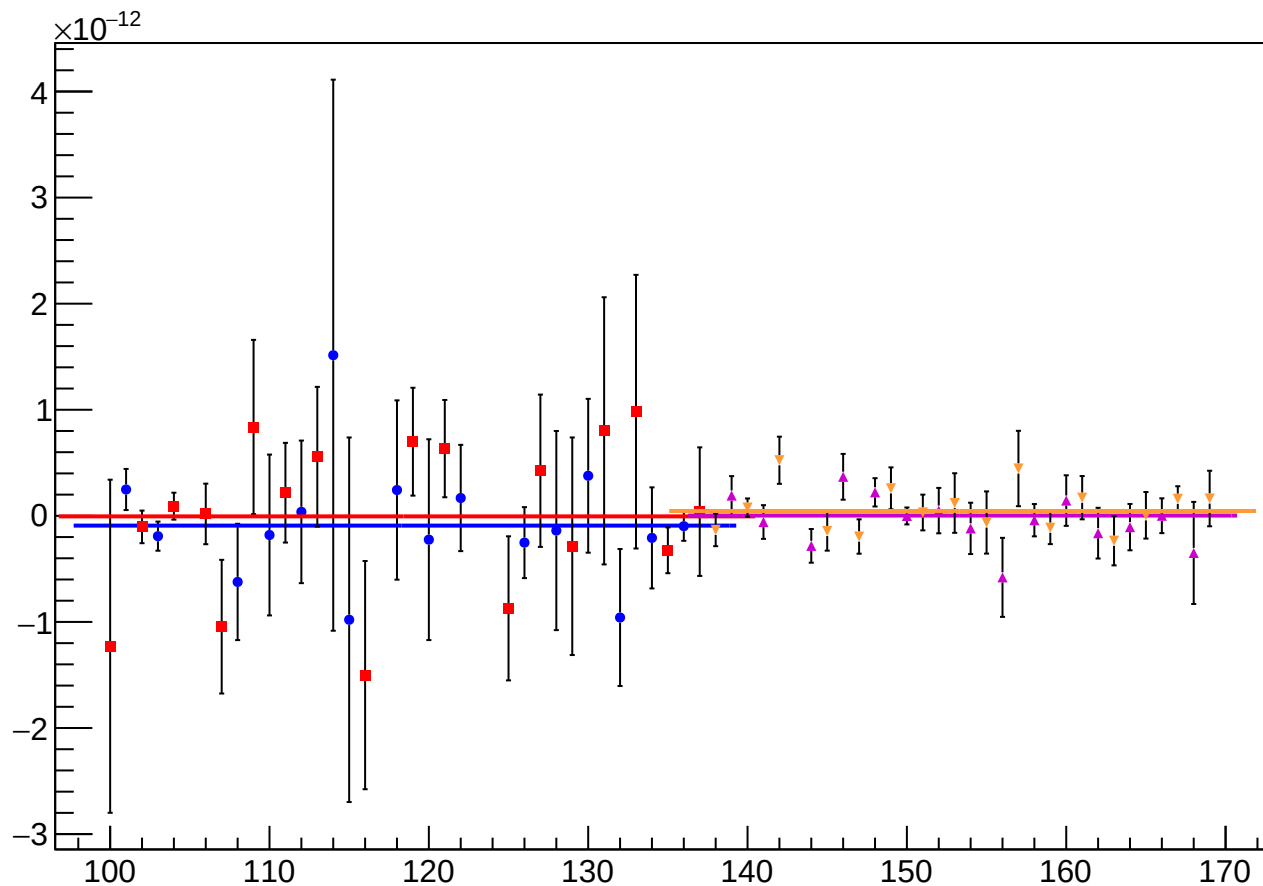
Right: 4928.883+/-0.960 χ^2/NDF : 2103987.6/33

In: 5824.236+/-0.962 χ^2/NDF : 2352434.1/30

Out: 5650.519+/-0.936 χ^2/NDF : 2583603.4/33

All: 5734.996+/-0.671 χ^2/NDF : 4952797.7/64

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 8.2/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 16.1/15

Right Out: -0.000 ± 0.000 χ^2/NDF : 17.4/17

Left In: 0.000 ± 0.000 χ^2/NDF : 14.4/14

Left: 0.000 ± 0.000 χ^2/NDF : 31.0/30

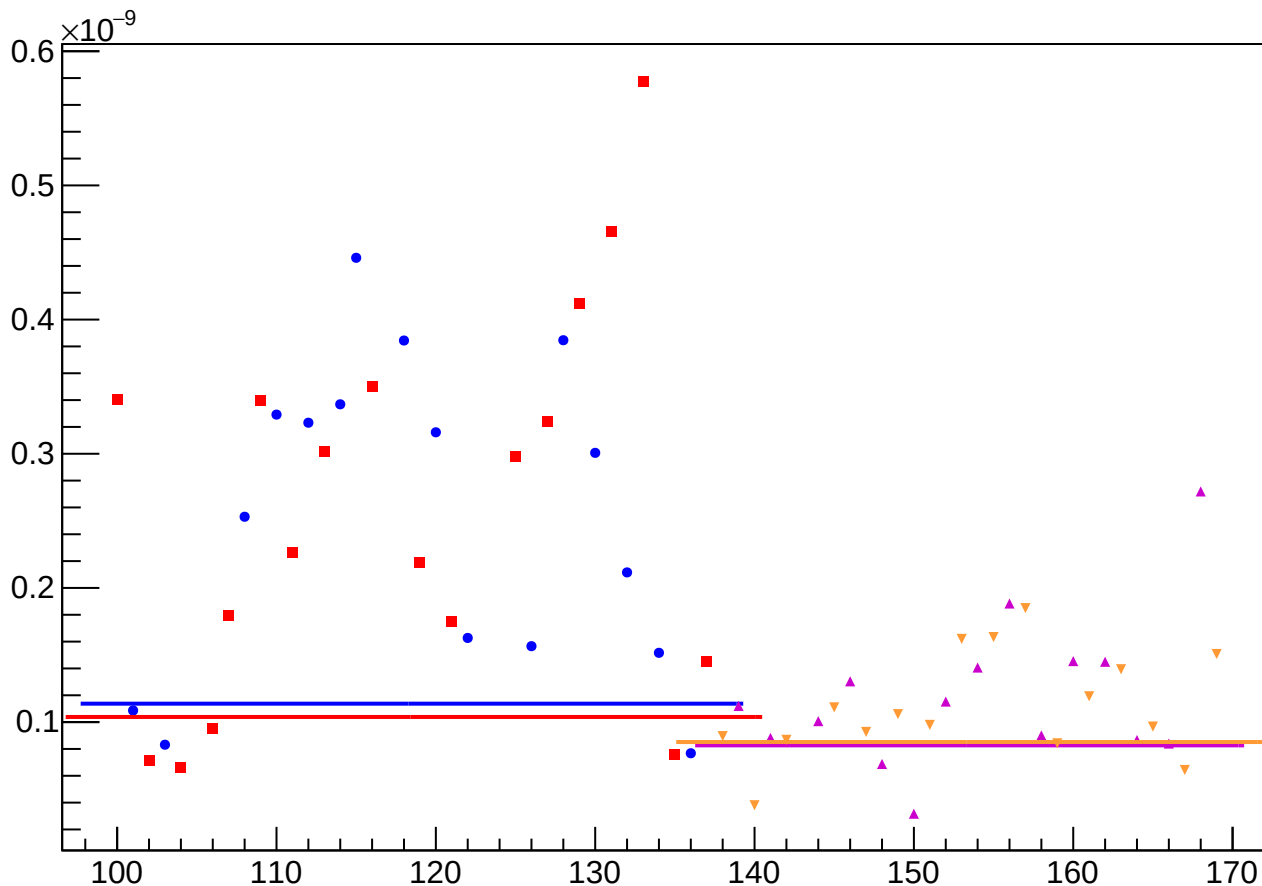
Right: -0.000 ± 0.000 χ^2/NDF : 26.2/33

In: -0.000 ± 0.000 χ^2/NDF : 23.8/30

Out: 0.000 ± 0.000 χ^2/NDF : 33.8/33

All: 0.000 ± 0.000 χ^2/NDF : 58.6/64

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1524807.9/15

Left Out: 0.000+/-0.000 χ^2/NDF :1490490.8/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2087534.7/17

Left In: 0.000+/-0.000 χ^2/NDF :1925310.9/14

Left: 0.000+/-0.000 χ^2/NDF : 3419136.7/30

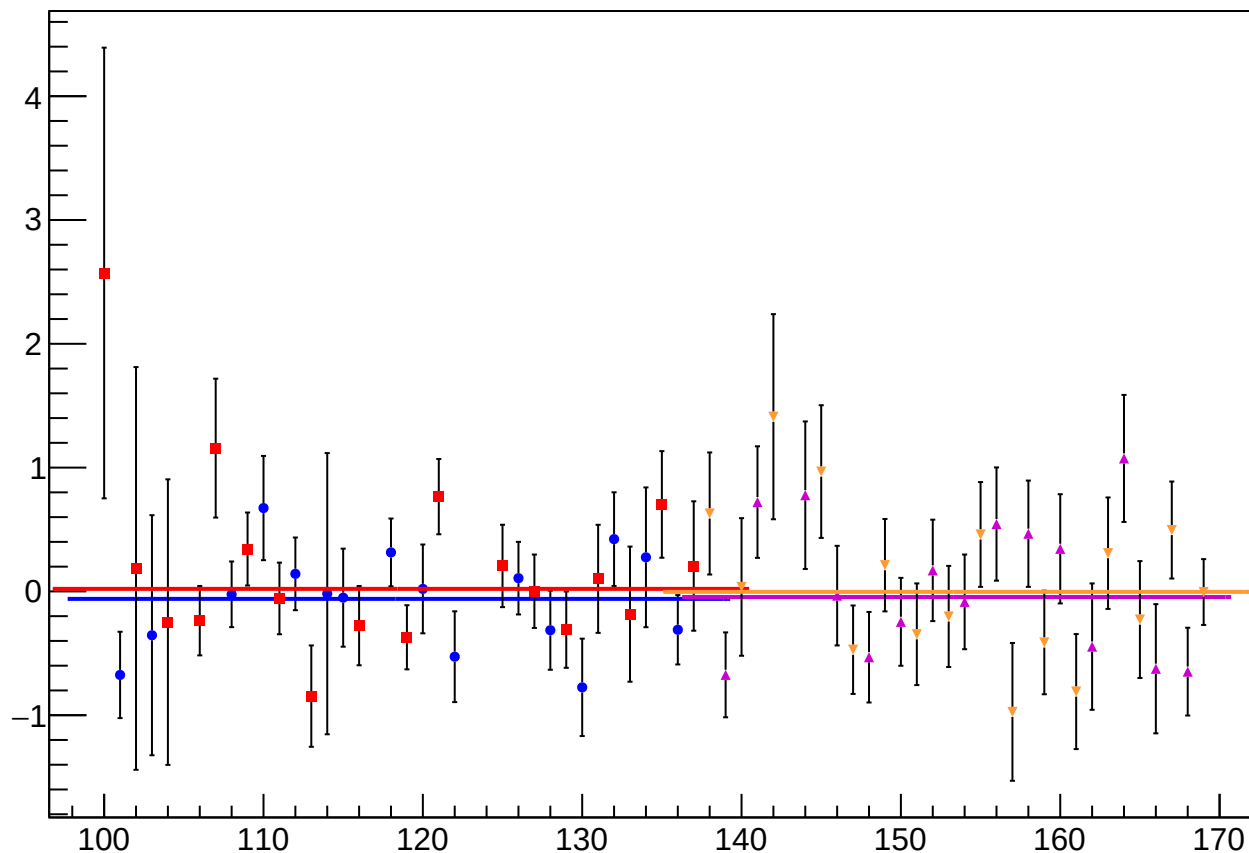
Right: 0.000+/-0.000 χ^2/NDF : 3628704.5/33

In: 0.000+/-0.000 χ^2/NDF :3693348.5/30

Out: 0.000+/-0.000 χ^2/NDF :3667833.3/33

All: 0.000+/-0.000 χ^2/NDF : 7361377.5/64

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.089 $\chi^2/\text{NDF}: 17.3/15$

Left Out: -0.004 ± 0.106 $\chi^2/\text{NDF}: 21.4/15$

Right Out: 0.020 ± 0.087 $\chi^2/\text{NDF}: 26.1/17$

Left In: -0.045 ± 0.108 $\chi^2/\text{NDF}: 23.9/14$

Left: -0.024 ± 0.076 $\chi^2/\text{NDF}: 45.3/30$

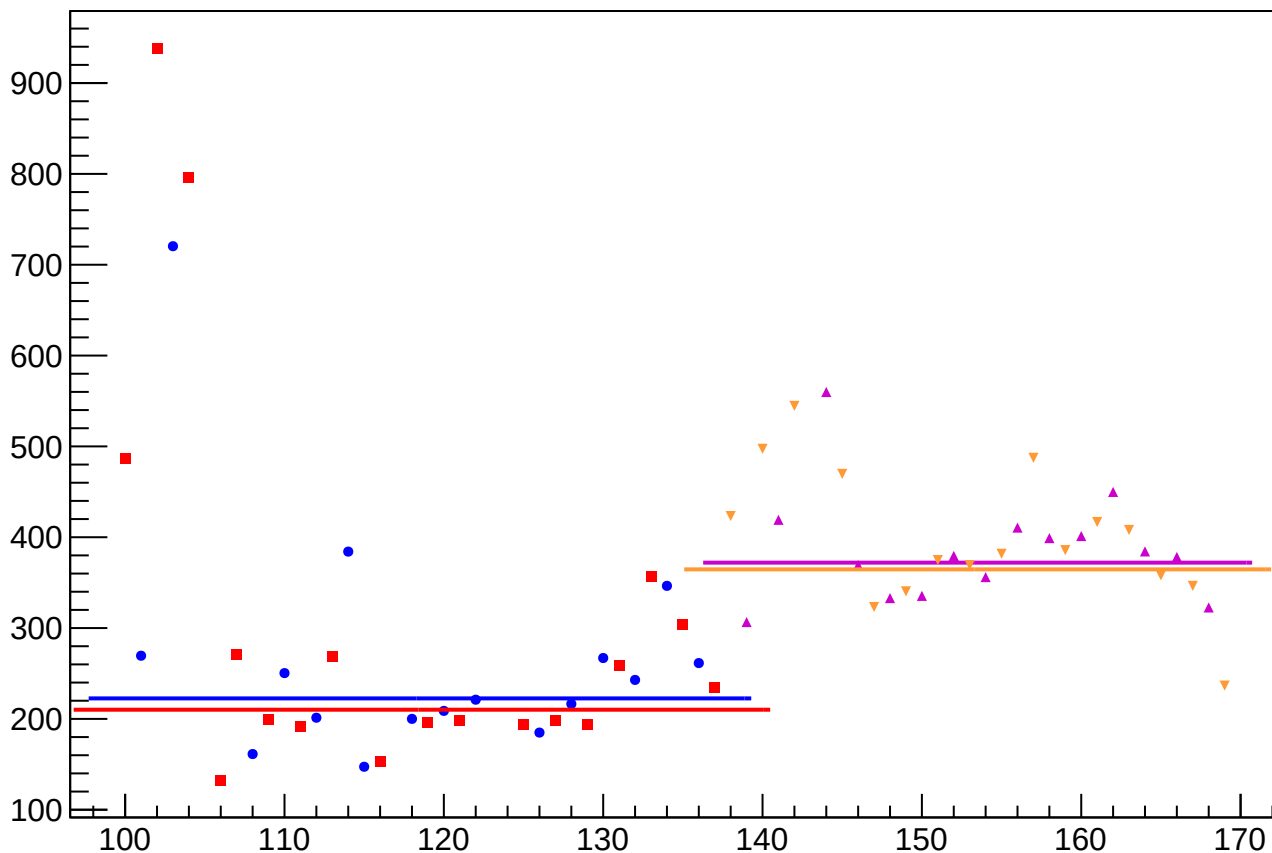
Right: -0.019 ± 0.062 $\chi^2/\text{NDF}: 43.9/33$

In: -0.054 ± 0.069 $\chi^2/\text{NDF}: 41.2/30$

Out: 0.011 ± 0.068 $\chi^2/\text{NDF}: 47.5/33$

All: -0.021 ± 0.048 $\chi^2/\text{NDF}: 89.2/64$

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.569+/-0.063 χ^2/NDF : 1018774.9/15

Left Out: 364.623+/-0.075 χ^2/NDF : 968227.1/15

Right Out: 210.123+/-0.062 χ^2/NDF : 1548526.4/17

Left In: 372.026+/-0.077 χ^2/NDF : 459376.5/14

Left: 368.256+/-0.054 χ^2/NDF : 1432361.4/30

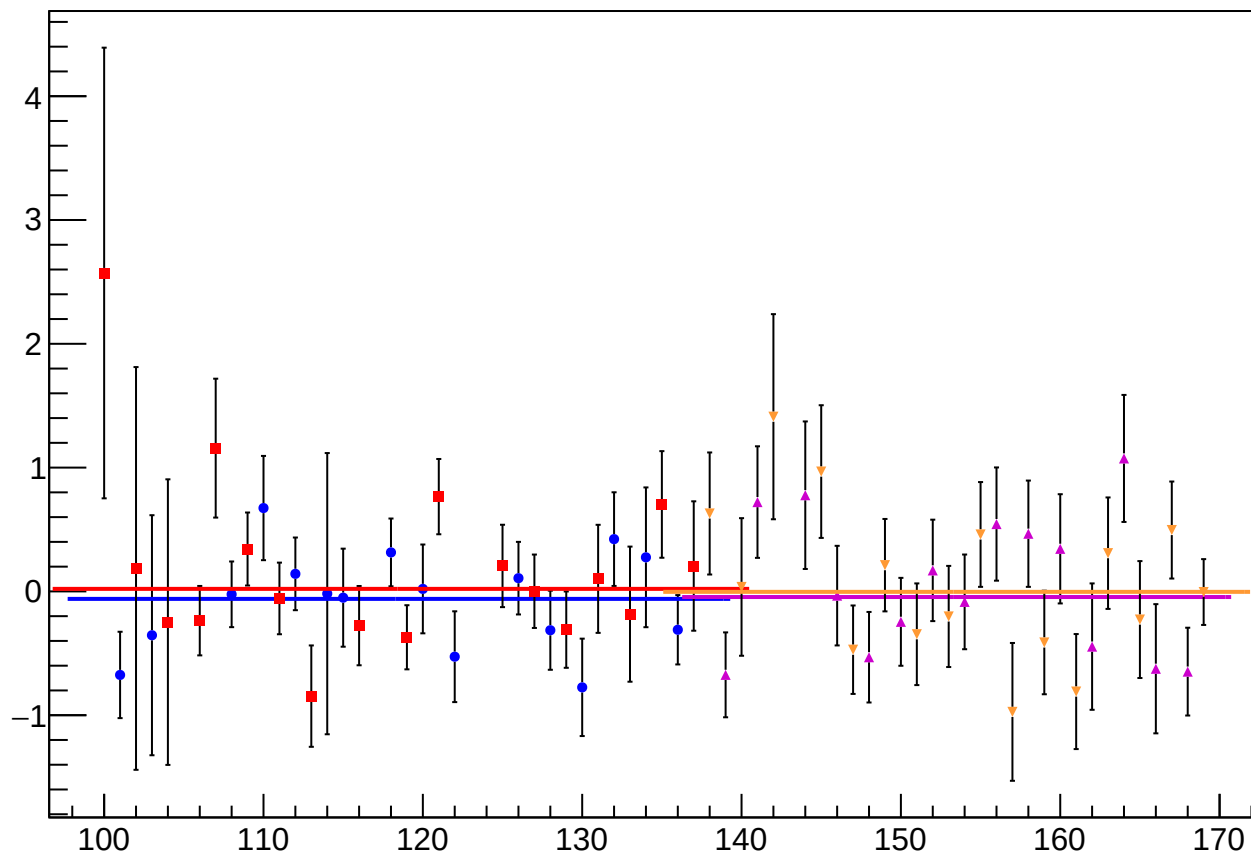
Right: 216.259+/-0.044 χ^2/NDF : 2587282.3/33

In: 282.533+/-0.049 χ^2/NDF : 3758496.1/30

Out: 272.456+/-0.048 χ^2/NDF : 5036554.1/33

All: 277.415+/-0.034 χ^2/NDF : 8816963.7/64

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.089 χ^2/NDF : 17.3/15

Left Out: -0.004 ± 0.106 χ^2/NDF : 21.4/15

Right Out: 0.020 ± 0.087 χ^2/NDF : 26.1/17

Left In: -0.045 ± 0.108 χ^2/NDF : 23.9/14

Left: -0.024 ± 0.076 χ^2/NDF : 45.3/30

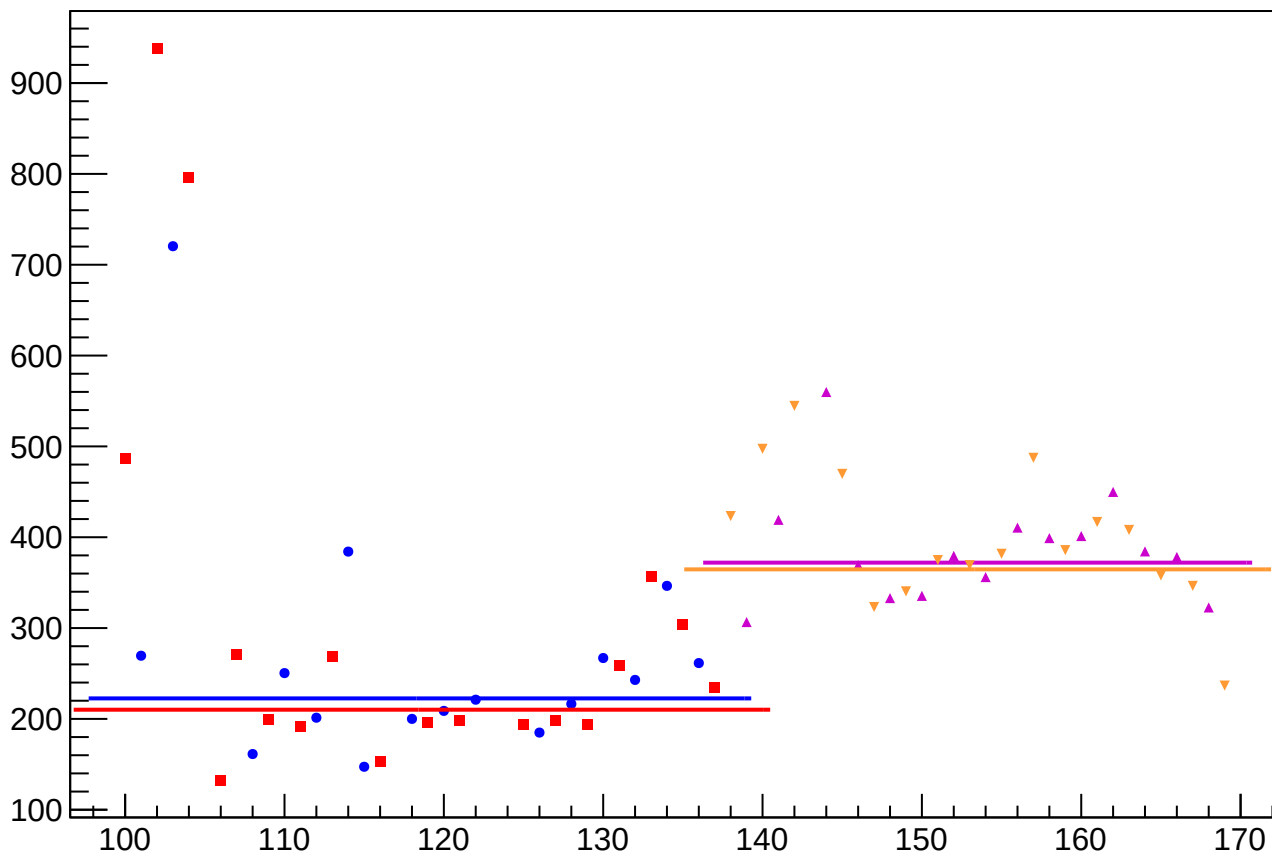
Right: -0.019 ± 0.062 χ^2/NDF : 43.9/33

In: -0.054 ± 0.069 χ^2/NDF : 41.2/30

Out: 0.011 ± 0.068 χ^2/NDF : 47.5/33

All: -0.021 ± 0.048 χ^2/NDF : 89.2/64

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.569 $\pm$ 0.063 χ^2 /NDF: 1018774.9/15

Left Out: 364.623 $\pm$ 0.075 χ^2 /NDF: 968227.1/15

Right Out: 210.123 $\pm$ 0.062 χ^2 /NDF: 1548526.4/17

Left In: 372.026 $\pm$ 0.077 χ^2 /NDF: 459376.5/14

Left: 368.256 $\pm$ 0.054 χ^2 /NDF: 1432361.4/30

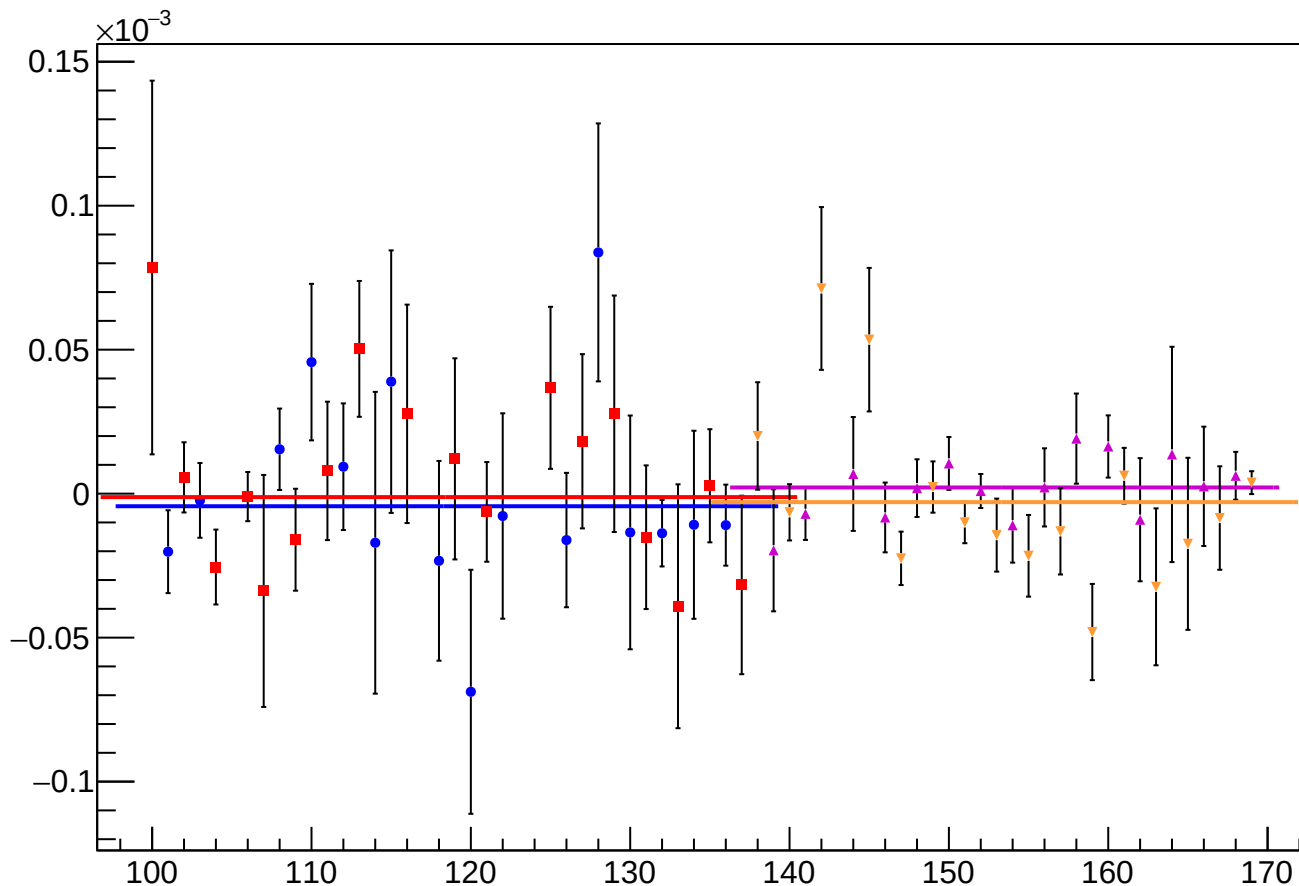
Right: 216.259 $\pm$ 0.044 χ^2 /NDF: 2587282.3/33

In: 282.533 $\pm$ 0.049 χ^2 /NDF: 3758496.1/30

Out: 272.456 $\pm$ 0.048 χ^2 /NDF: 5036554.1/33

All: 277.415 $\pm$ 0.034 χ^2 /NDF: 8816963.7/64

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 15.6/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 35.0/15

Right Out: -0.000 ± 0.000 χ^2/NDF : 17.2/17

Left In: 0.000 ± 0.000 χ^2/NDF : 8.3/14

Left: -0.000 ± 0.000 χ^2/NDF : 45.0/30

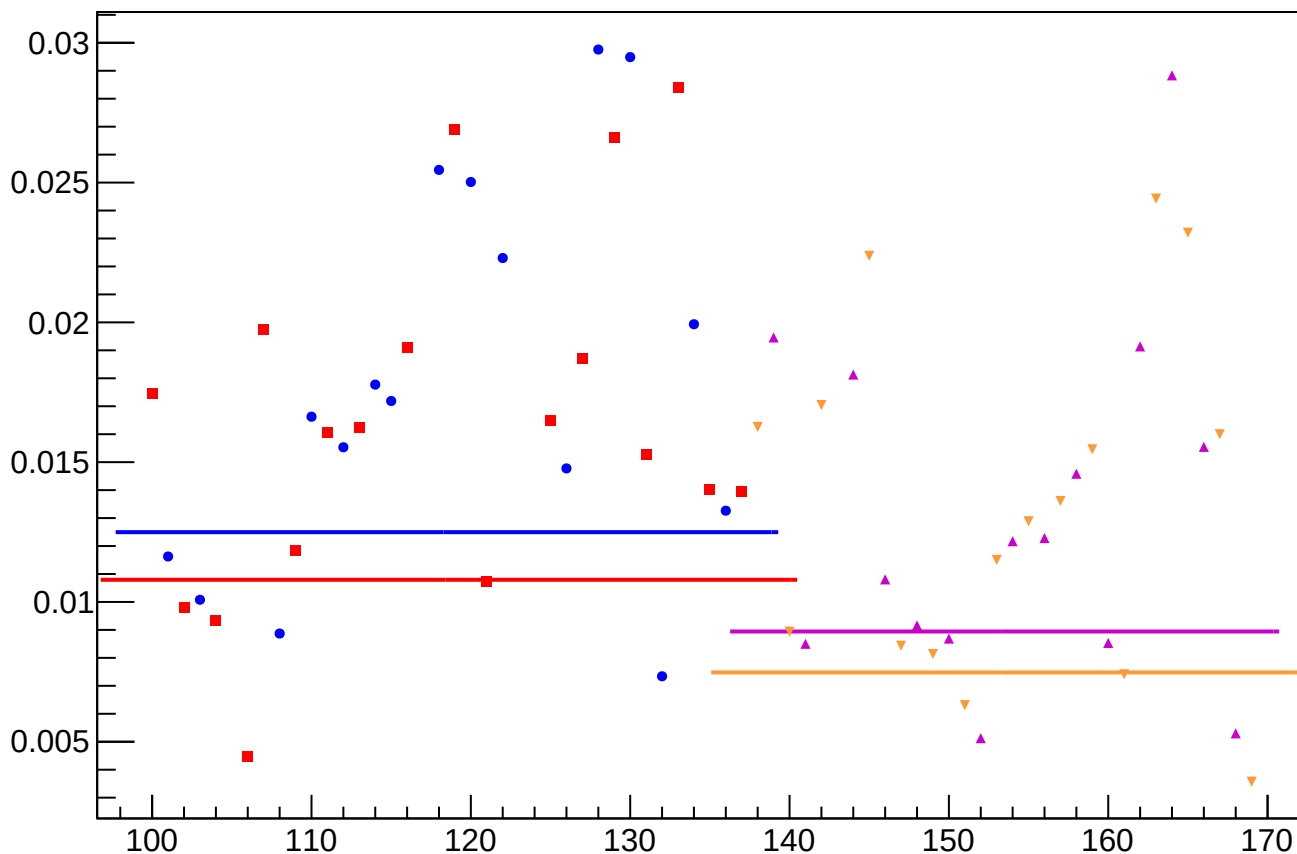
Right: -0.000 ± 0.000 χ^2/NDF : 33.1/33

In: 0.000 ± 0.000 χ^2/NDF : 25.2/30

Out: -0.000 ± 0.000 χ^2/NDF : 52.3/33

All: -0.000 ± 0.000 χ^2/NDF : 78.3/64

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2/NDF : 2114968.1/15

Left Out: 0.007 $\pm$ 0.000 χ^2/NDF : 6509560.7/15

Right Out: 0.011 $\pm$ 0.000 χ^2/NDF : 2987826.3/17

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 3930787.7/14

Left: 0.008 $\pm$ 0.000 χ^2/NDF : 10730295.7/30

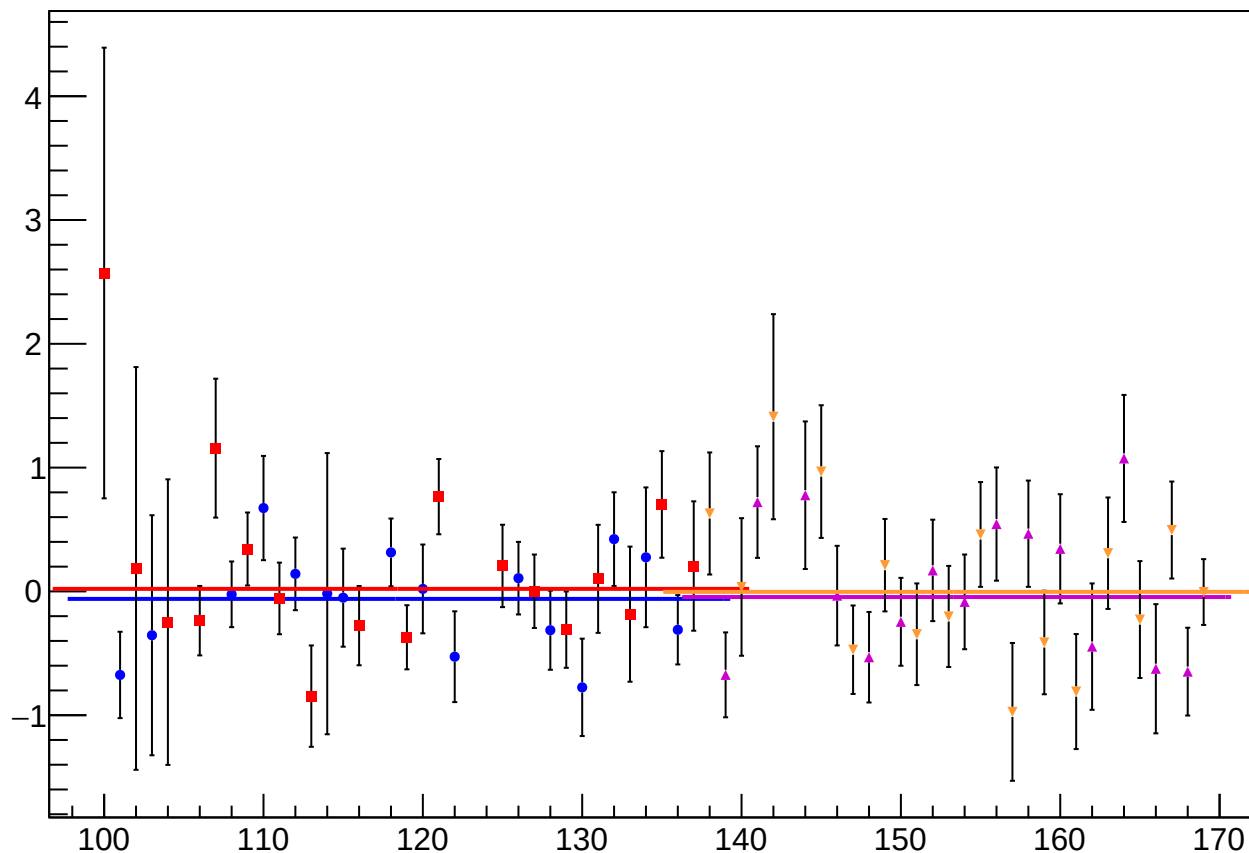
Right: 0.012 $\pm$ 0.000 χ^2/NDF : 5226474.2/33

In: 0.010 $\pm$ 0.000 χ^2/NDF : 6780942.1/30

Out: 0.008 $\pm$ 0.000 χ^2/NDF : 10300411.5/33

All: 0.009 $\pm$ 0.000 χ^2/NDF : 17523118.2/64

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.089 χ^2/NDF : 17.3/15

Left Out: -0.004 ± 0.106 χ^2/NDF : 21.4/15

Right Out: 0.020 ± 0.087 χ^2/NDF : 26.1/17

Left In: -0.045 ± 0.108 χ^2/NDF : 23.9/14

Left: -0.024 ± 0.076 χ^2/NDF : 45.3/30

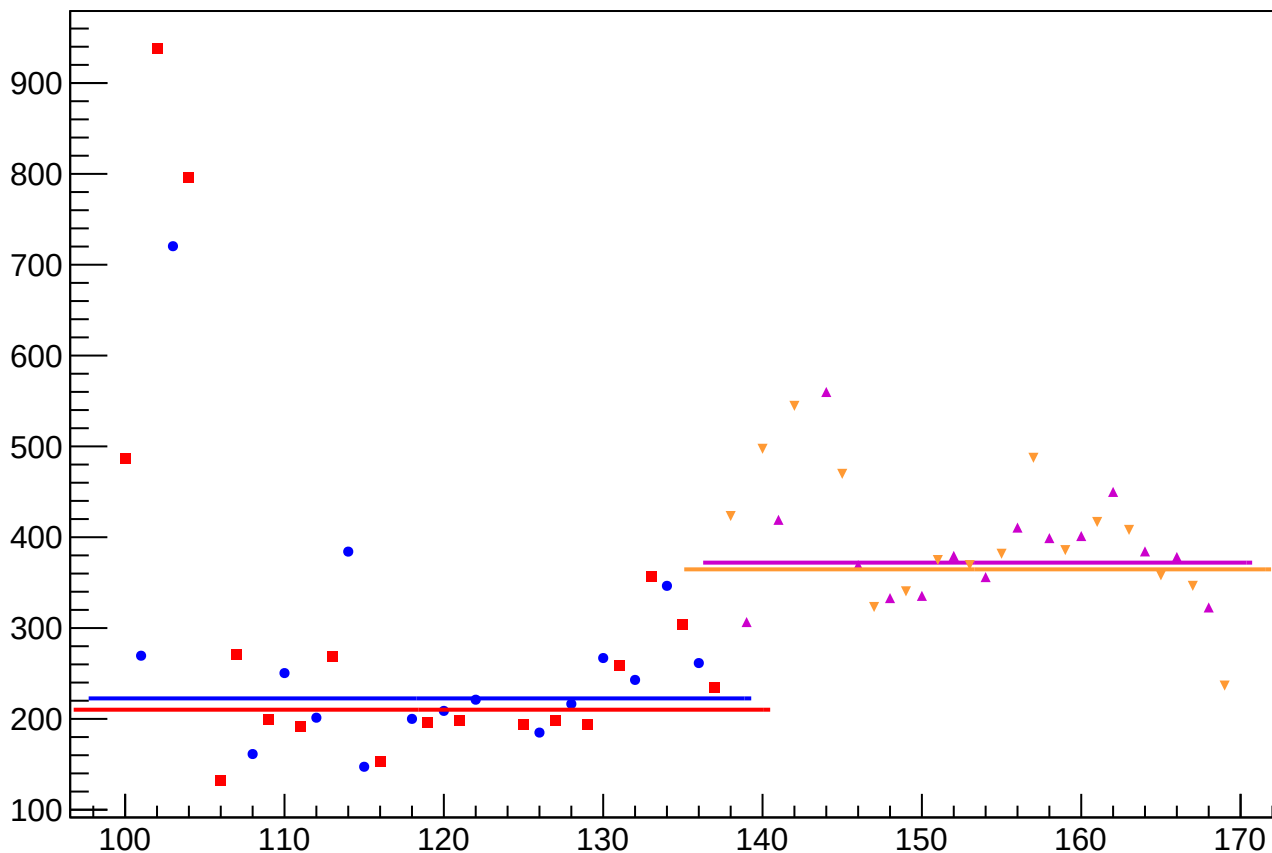
Right: -0.019 ± 0.062 χ^2/NDF : 43.9/33

In: -0.054 ± 0.069 χ^2/NDF : 41.2/30

Out: 0.011 ± 0.068 χ^2/NDF : 47.5/33

All: -0.021 ± 0.048 χ^2/NDF : 89.2/64

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.567+/-0.063 χ^2/NDF : 1018760.3/15

Left Out: 364.628+/-0.075 χ^2/NDF : 968274.3/15

Right Out: 210.120+/-0.062 χ^2/NDF : 1548507.5/17

Left In: 372.032+/-0.077 χ^2/NDF : 459374.9/14

Left: 368.261+/-0.054 χ^2/NDF : 1432408.9/30

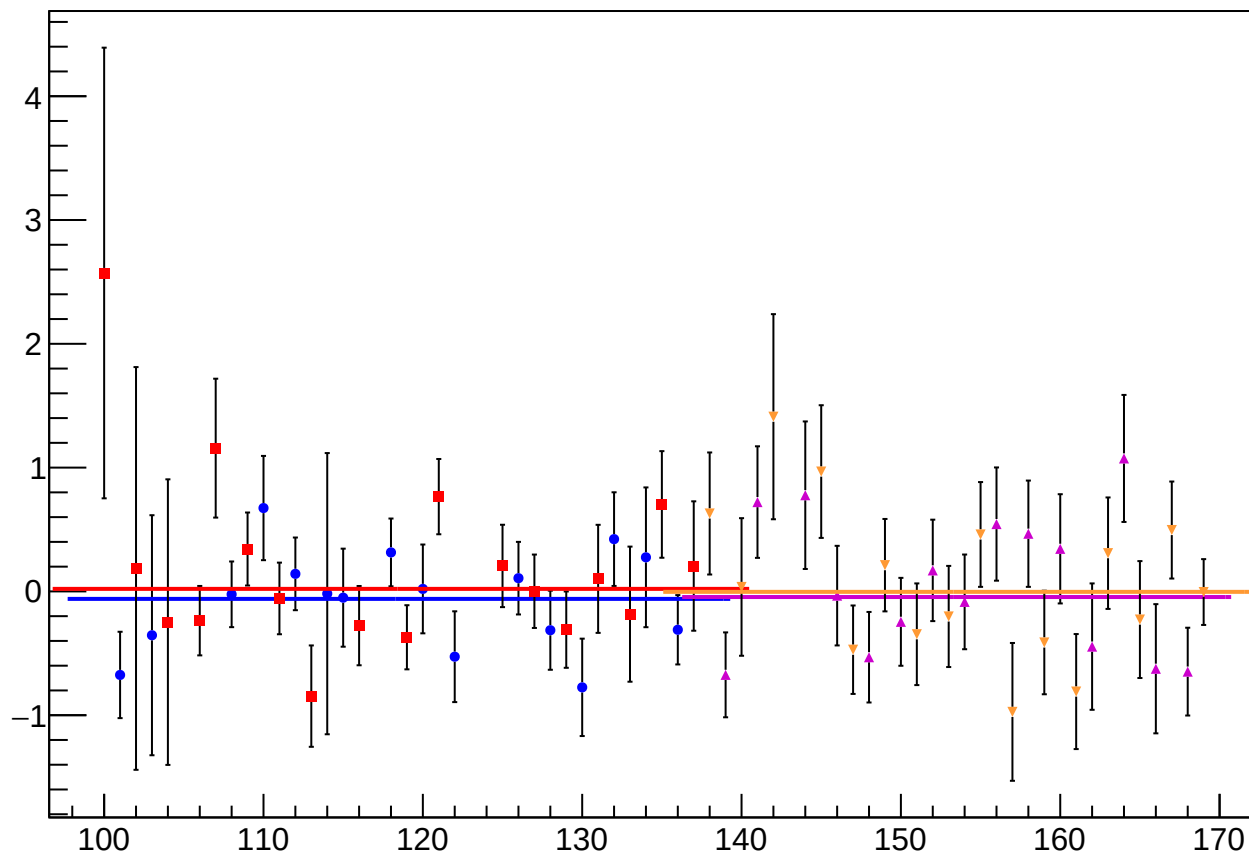
Right: 216.257+/-0.044 χ^2/NDF : 2587251.9/33

In: 282.532+/-0.049 χ^2/NDF : 3758689.5/30

Out: 272.455+/-0.048 χ^2/NDF : 5036801.6/33

All: 277.414+/-0.034 χ^2/NDF : 8817410.1/64

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.060 ± 0.089 χ^2/NDF : 17.3/15

Left Out: -0.004 ± 0.106 χ^2/NDF : 21.4/15

Right Out: 0.020 ± 0.087 χ^2/NDF : 26.1/17

Left In: -0.045 ± 0.108 χ^2/NDF : 23.9/14

Left: -0.024 ± 0.076 χ^2/NDF : 45.3/30

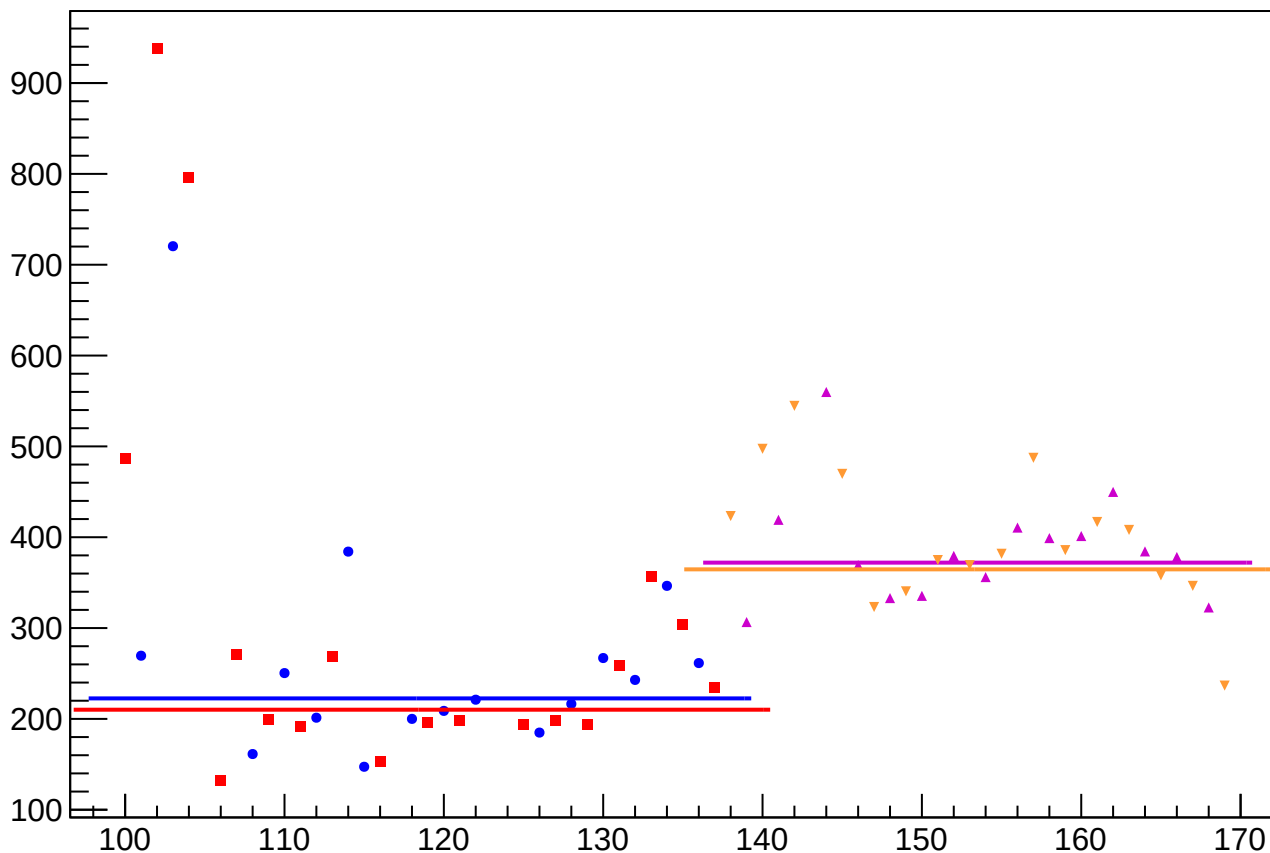
Right: -0.019 ± 0.062 χ^2/NDF : 43.9/33

In: -0.054 ± 0.069 χ^2/NDF : 41.2/30

Out: 0.011 ± 0.068 χ^2/NDF : 47.5/33

All: -0.021 ± 0.048 χ^2/NDF : 89.2/64

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 222.567+/-0.063 χ^2/NDF : 1018760.3/15

Left Out: 364.628+/-0.075 χ^2/NDF : 968274.3/15

Right Out: 210.120+/-0.062 χ^2/NDF : 1548507.5/17

Left In: 372.032+/-0.077 χ^2/NDF : 459374.9/14

Left: 368.261+/-0.054 χ^2/NDF : 1432408.9/30

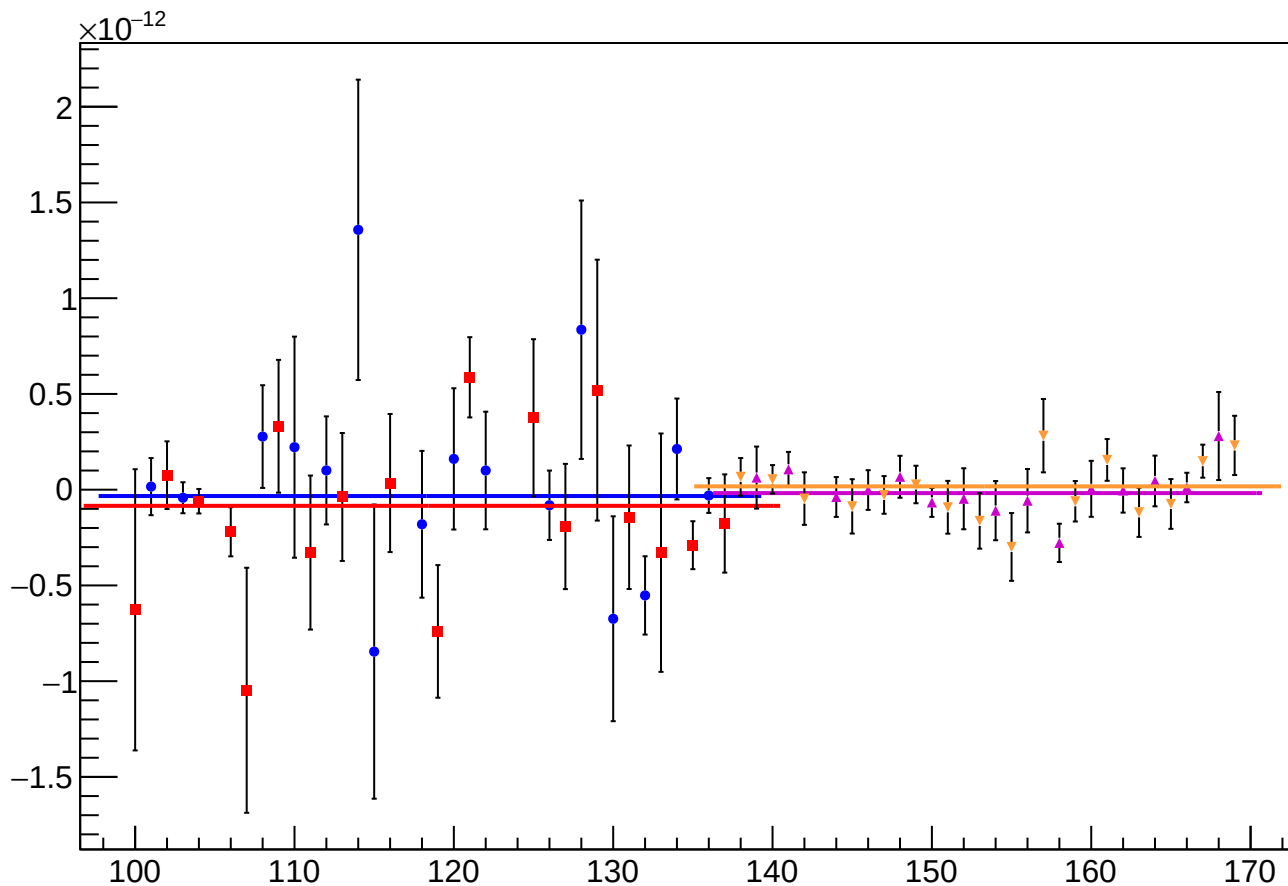
Right: 216.257+/-0.044 χ^2/NDF : 2587251.9/33

In: 282.532+/-0.049 χ^2/NDF : 3758689.5/30

Out: 272.455+/-0.048 χ^2/NDF : 5036801.6/33

All: 277.414+/-0.034 χ^2/NDF : 8817410.1/64

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 17.2/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 16.8/15

Right Out: -0.000 ± 0.000 χ^2/NDF : 25.8/17

Left In: -0.000 ± 0.000 χ^2/NDF : 12.5/14

Left: 0.000 ± 0.000 χ^2/NDF : 30.0/30

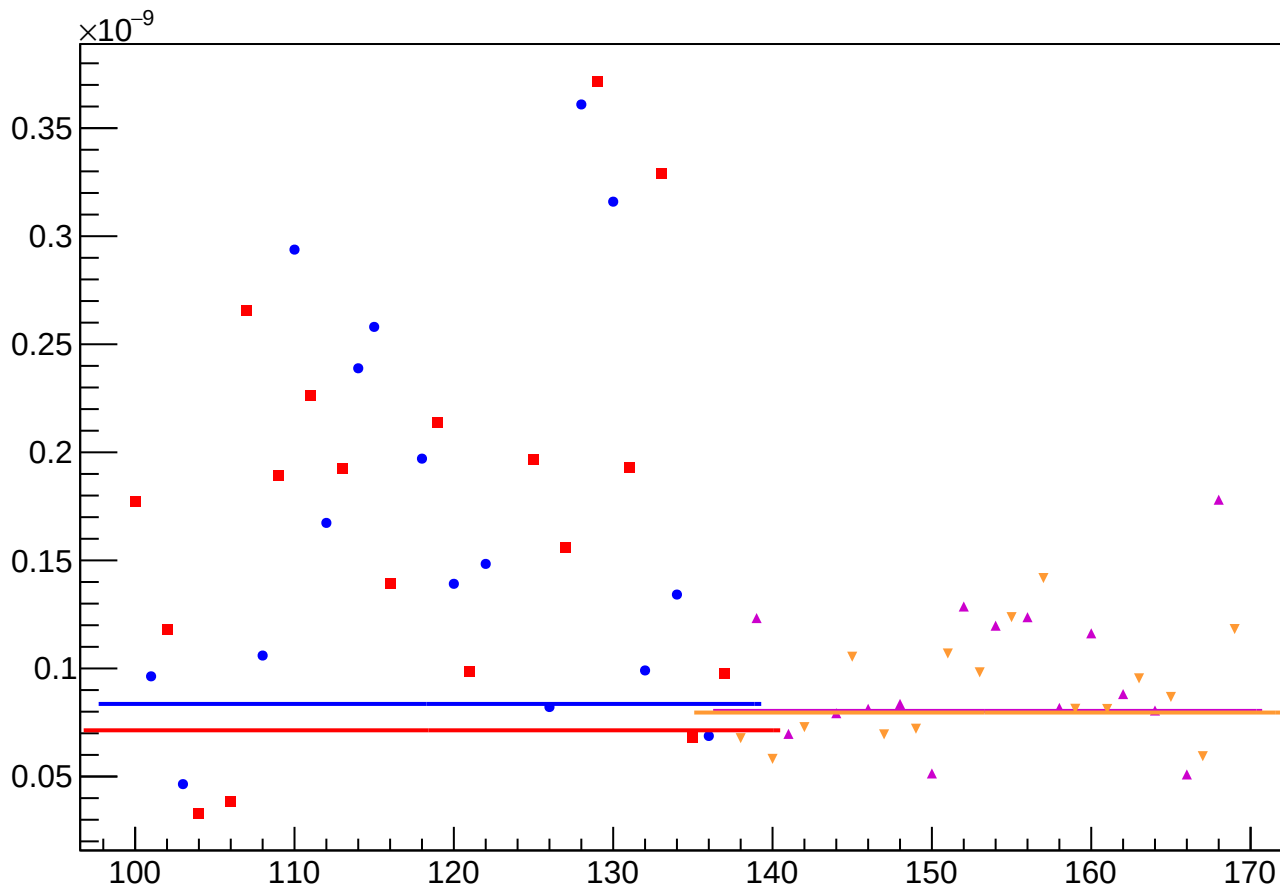
Right: -0.000 ± 0.000 χ^2/NDF : 43.7/33

In: -0.000 ± 0.000 χ^2/NDF : 29.8/30

Out: -0.000 ± 0.000 χ^2/NDF : 46.3/33

All: -0.000 ± 0.000 χ^2/NDF : 76.2/64

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2235431.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :1017965.3/15

Right Out: 0.000+/-0.000 χ^2/NDF : 3745180.4/17

Left In: 0.000+/-0.000 χ^2/NDF :1697535.4/14

Left: 0.000+/-0.000 χ^2/NDF : 2716185.0/30

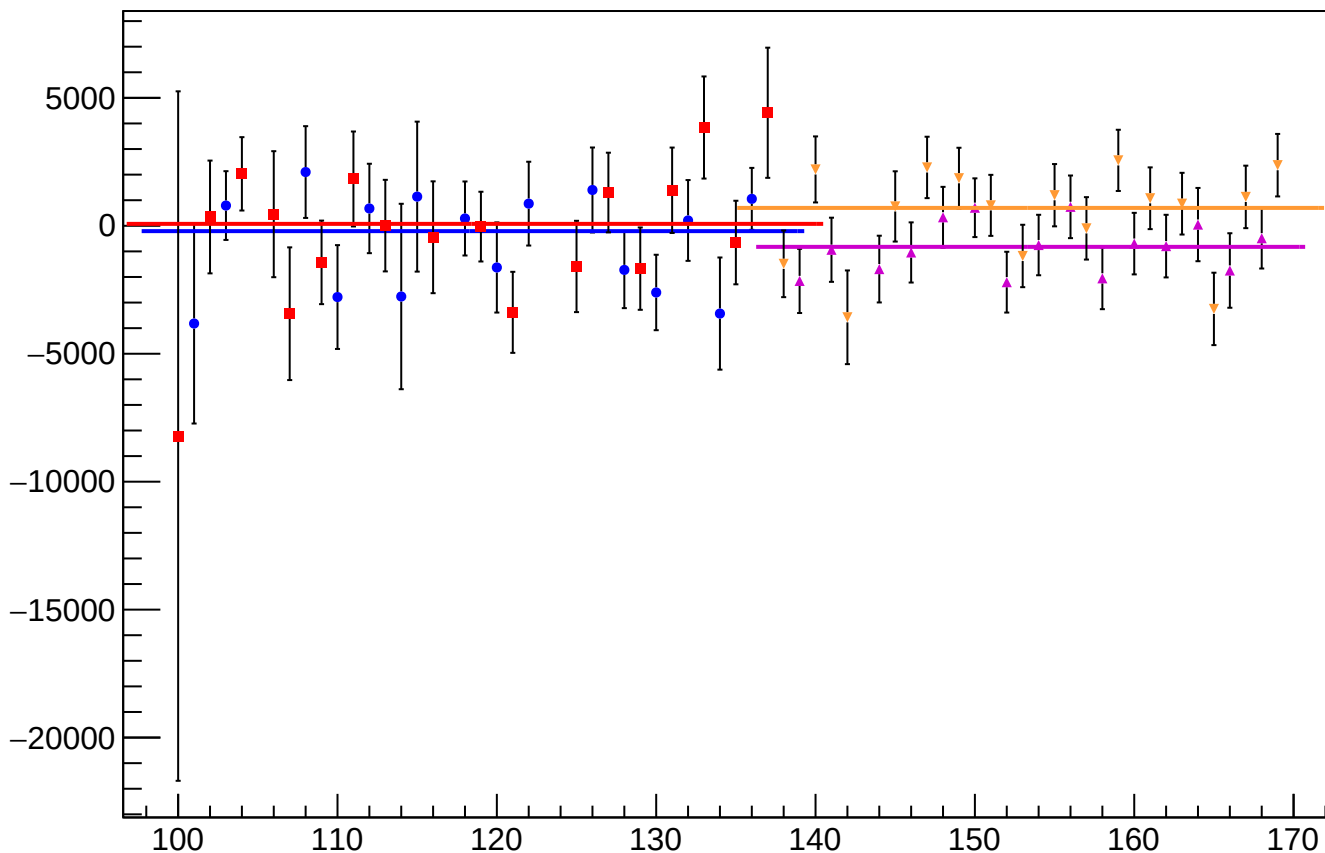
Right: 0.000+/-0.000 χ^2/NDF : 6051897.3/33

In: 0.000+/-0.000 χ^2/NDF :3939801.0/30

Out: 0.000+/-0.000 χ^2/NDF :4811765.3/33

All: 0.000+/-0.000 χ^2/NDF : 8779326.6/64

reg_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -208.338+/-429.155 χ^2/NDF : 14.8/15

Left Out: 699.465+/-315.369 χ^2/NDF : 27.6/15

Right Out: 75.616+/-430.760 χ^2/NDF : 20.7/17

Left In: -822.622+/-318.394 χ^2/NDF : 9.2/14

Left: -54.314+/-224.062 χ^2/NDF : 48.4/30

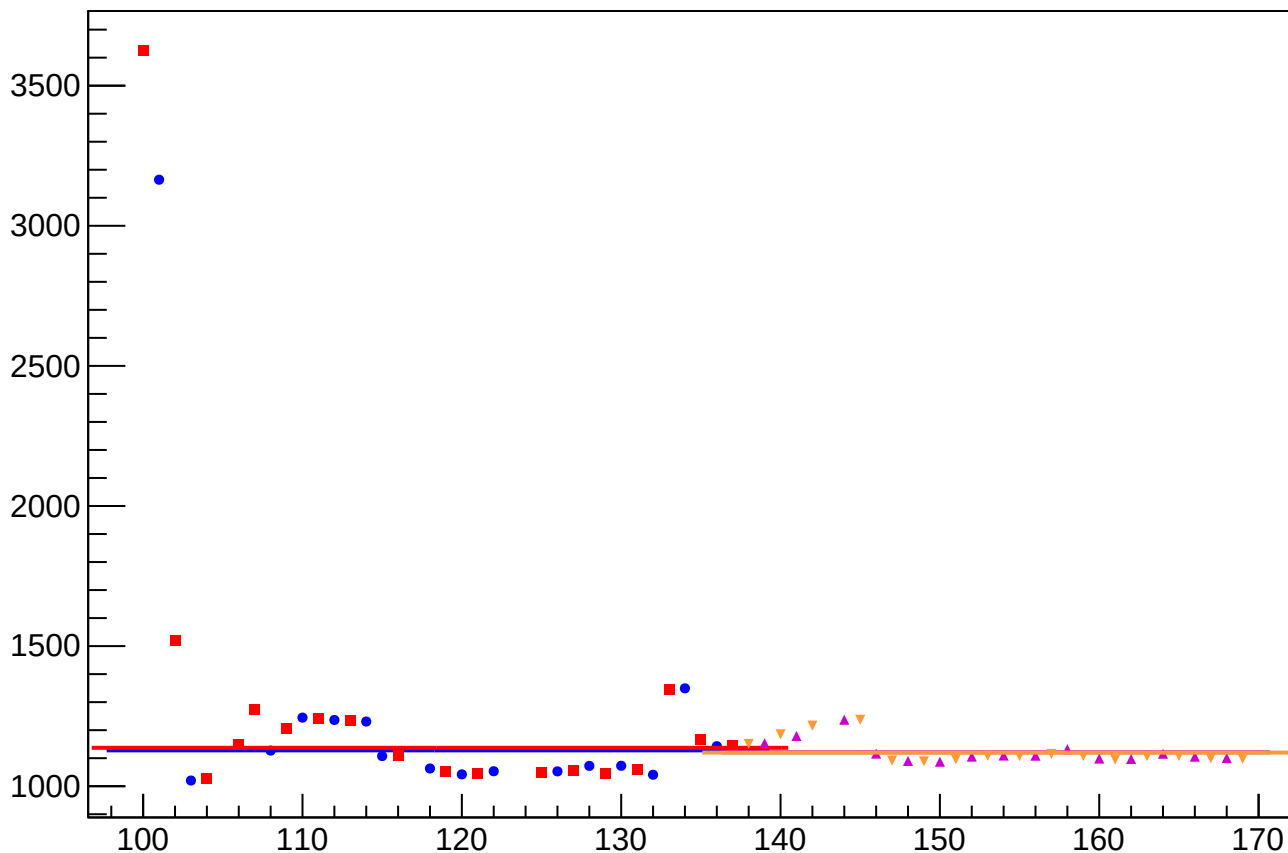
Right: -66.891+/-304.024 χ^2/NDF : 35.6/33

In: -604.540+/-255.705 χ^2/NDF : 25.3/30

Out: 481.767+/-254.462 χ^2/NDF : 49.6/33

All: -58.741+/-180.370 χ^2/NDF : 84.0/64

reg_asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1128.007+/-0.303 χ^2/NDF : 621394.5/15

Left Out: 1120.056+/-0.223 χ^2/NDF : 32606.8/15

Right Out: 1137.041+/-0.304 χ^2/NDF : 220086.1/17

Left In: 1121.074+/-0.225 χ^2/NDF : 27879.3/14

Left: 1120.560+/-0.158 χ^2/NDF : 60496.5/30

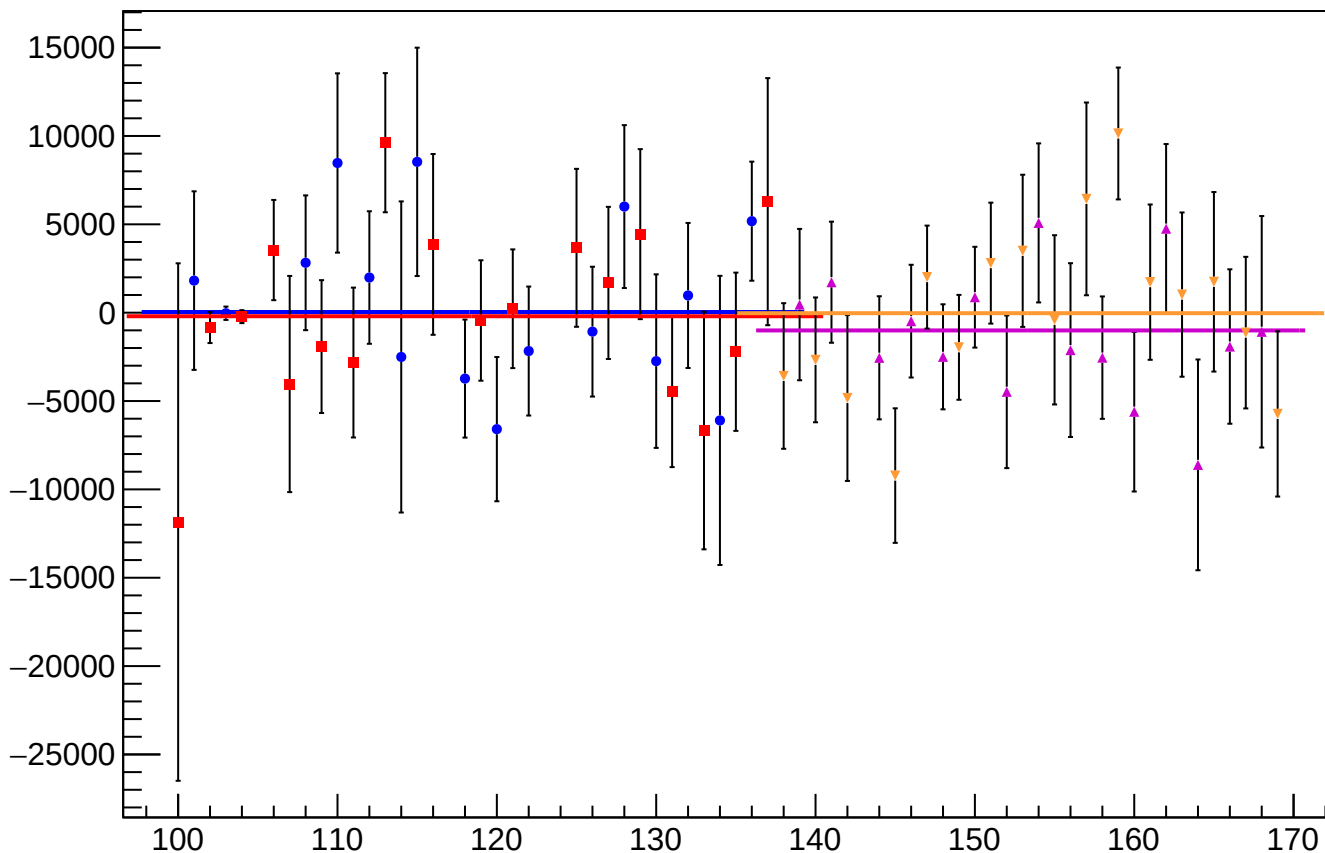
Right: 1132.516+/-0.215 χ^2/NDF : 841922.9/33

In: 1123.535+/-0.181 χ^2/NDF : 649610.6/30

Out: 1125.997+/-0.180 χ^2/NDF : 254722.2/33

All: 1124.773+/-0.127 χ^2/NDF : 904426.0/64

asym_us_avg_atlr_avg_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 38.300 $\pm$ 357.651 χ^2/NDF : 14.8/15

Left Out: -29.137 $\pm$ 994.957 χ^2/NDF : 21.2/15

Right Out: -201.642 $\pm$ 322.545 χ^2/NDF : 15.6/17

Left In: -1004.462 $\pm$ 1009.853 χ^2/NDF : 8.5/14

Left: -509.553 $\pm$ 708.749 χ^2/NDF : 30.2/30

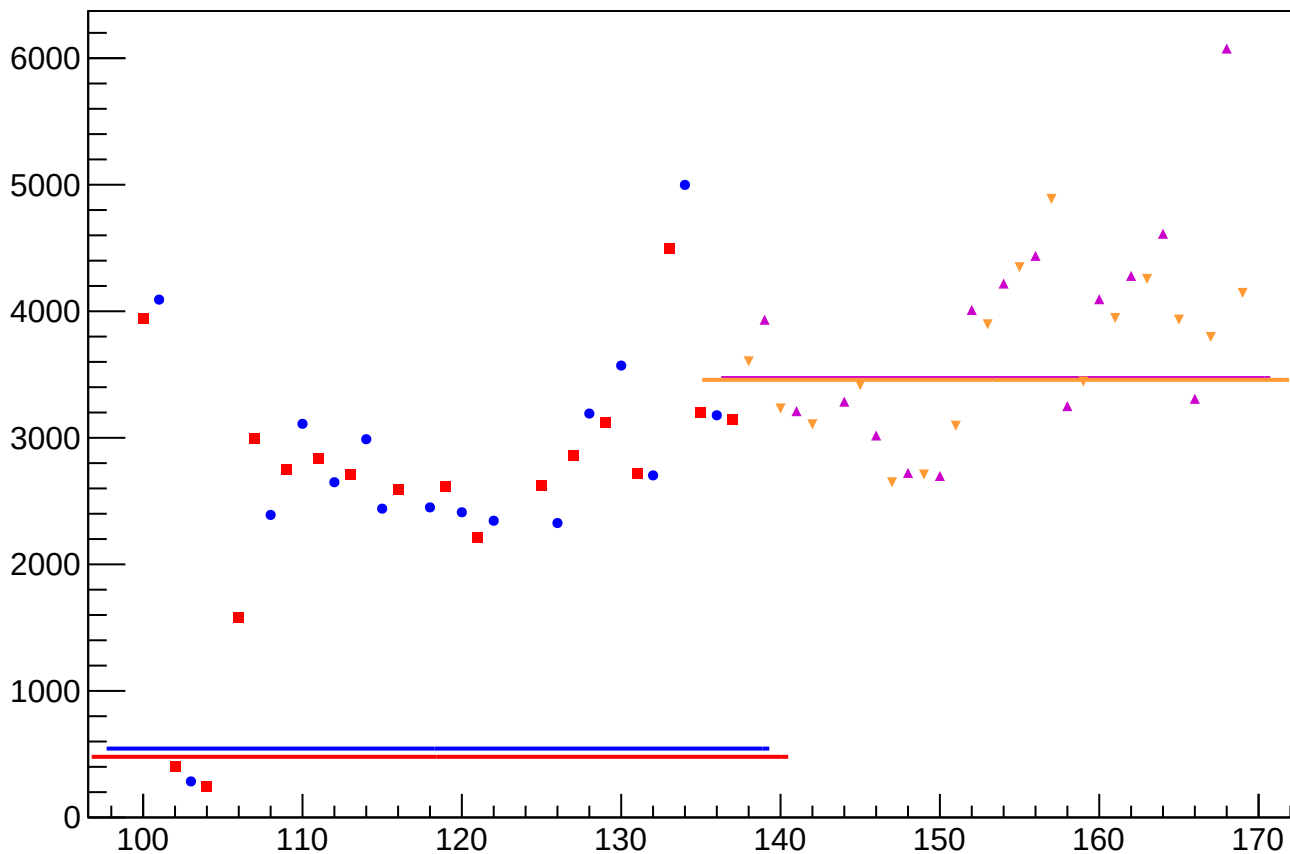
Right: -94.022 $\pm$ 239.526 χ^2/NDF : 30.7/33

In: -77.917 $\pm$ 337.132 χ^2/NDF : 24.3/30

Out: -185.237 $\pm$ 306.825 χ^2/NDF : 36.8/33

All: -136.617 $\pm$ 226.918 χ^2/NDF : 61.2/64

asym_us_avg_atlr_avg_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 544.336 +/- 0.253 χ^2/NDF : 9682967.9/15

Left Out: 3458.396 +/- 0.704 χ^2/NDF : 710331.9/15

Right Out: 479.253 +/- 0.228 χ^2/NDF : 9187985.0/17

Left In: 3472.433 +/- 0.714 χ^2/NDF : 1013777.5/14

Left: 3465.310 +/- 0.501 χ^2/NDF : 1724305.5/30

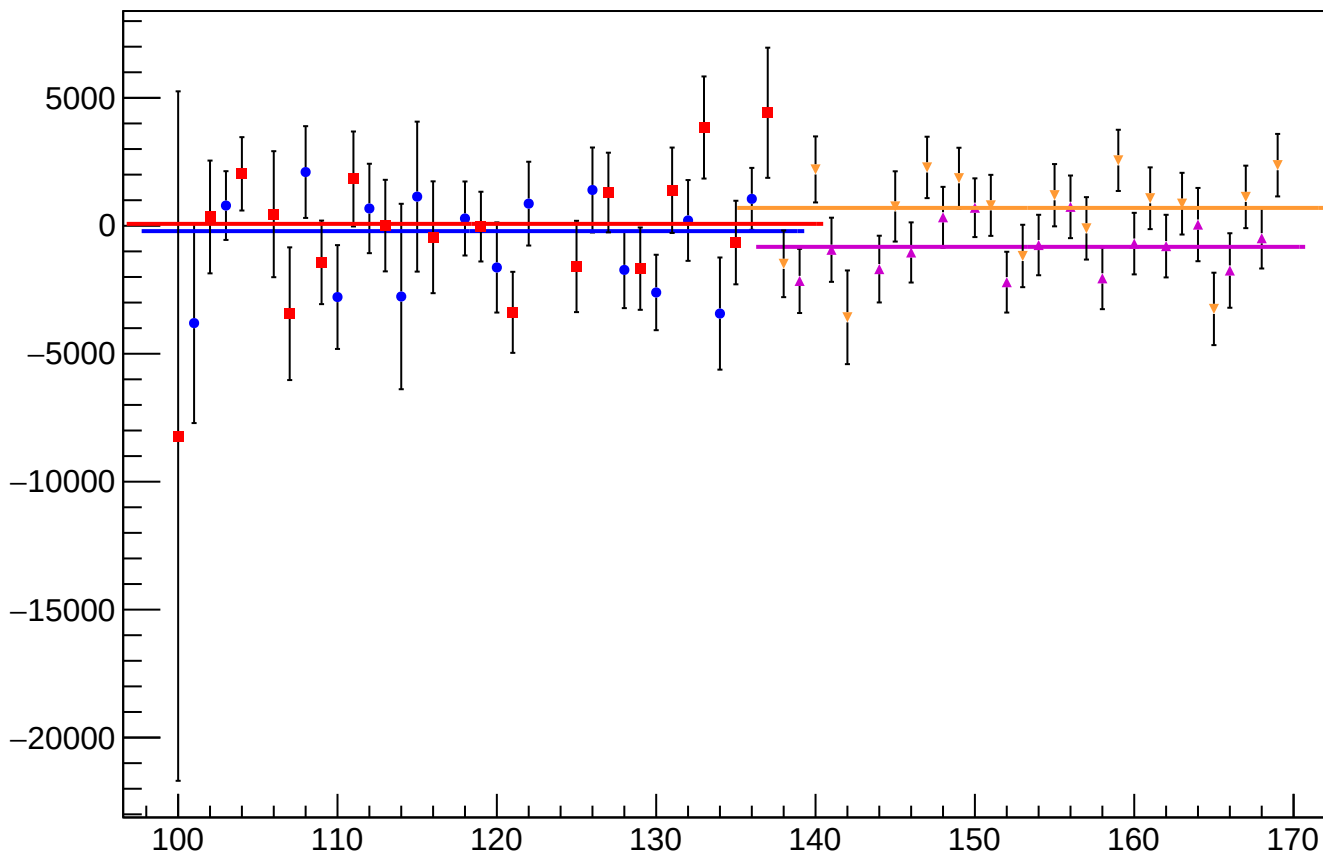
Right: 508.444 +/- 0.169 χ^2/NDF : 18907476.4/33

In: 870.676 +/- 0.238 χ^2/NDF : 25637271.4/30

Out: 762.564 +/- 0.217 χ^2/NDF : 26124100.5/33

All: 811.543 +/- 0.160 χ^2/NDF : 51873864.8/64

cor_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -208.110+/-429.155 χ^2/NDF : 14.8/15

Left Out: 699.531+/-315.369 χ^2/NDF : 27.6/15

Right Out: 75.761+/-430.760 χ^2/NDF : 20.7/17

Left In: -822.624+/-318.394 χ^2/NDF : 9.2/14

Left: -54.282+/-224.062 χ^2/NDF : 48.4/30

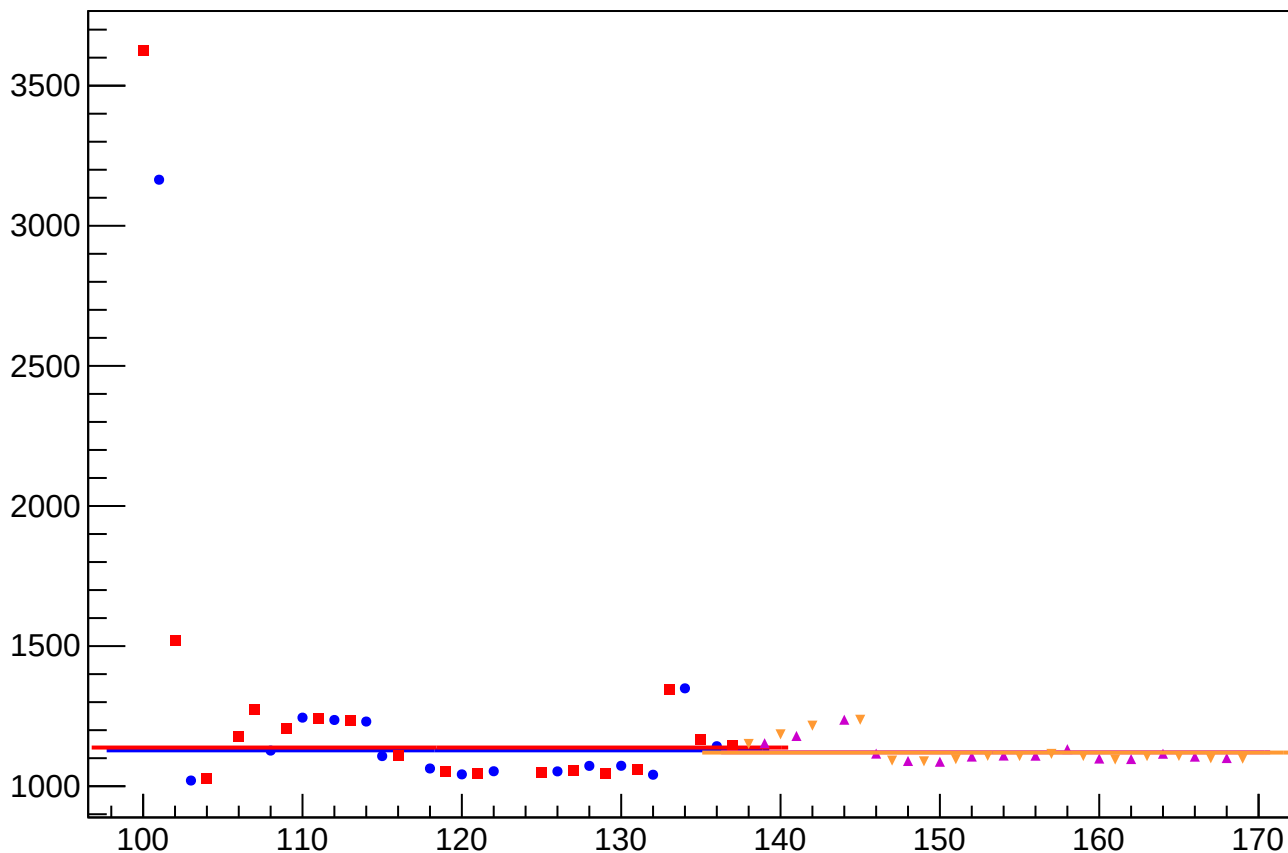
Right: -66.705+/-304.024 χ^2/NDF : 35.6/33

In: -604.460+/-255.705 χ^2/NDF : 25.3/30

Out: 481.860+/-254.462 χ^2/NDF : 49.6/33

All: -58.654+/-180.370 χ^2/NDF : 84.0/64

cor_asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1128.007 $\pm$ 0.303 χ^2 /NDF: 621395.6/15

Left Out: 1120.056 $\pm$ 0.223 χ^2 /NDF: 32606.8/15

Right Out: 1138.000 $\pm$ 0.304 χ^2 /NDF: 220624.5/17

Left In: 1121.074 $\pm$ 0.225 χ^2 /NDF: 27879.3/14

Left: 1120.560 $\pm$ 0.158 χ^2 /NDF: 60496.5/30

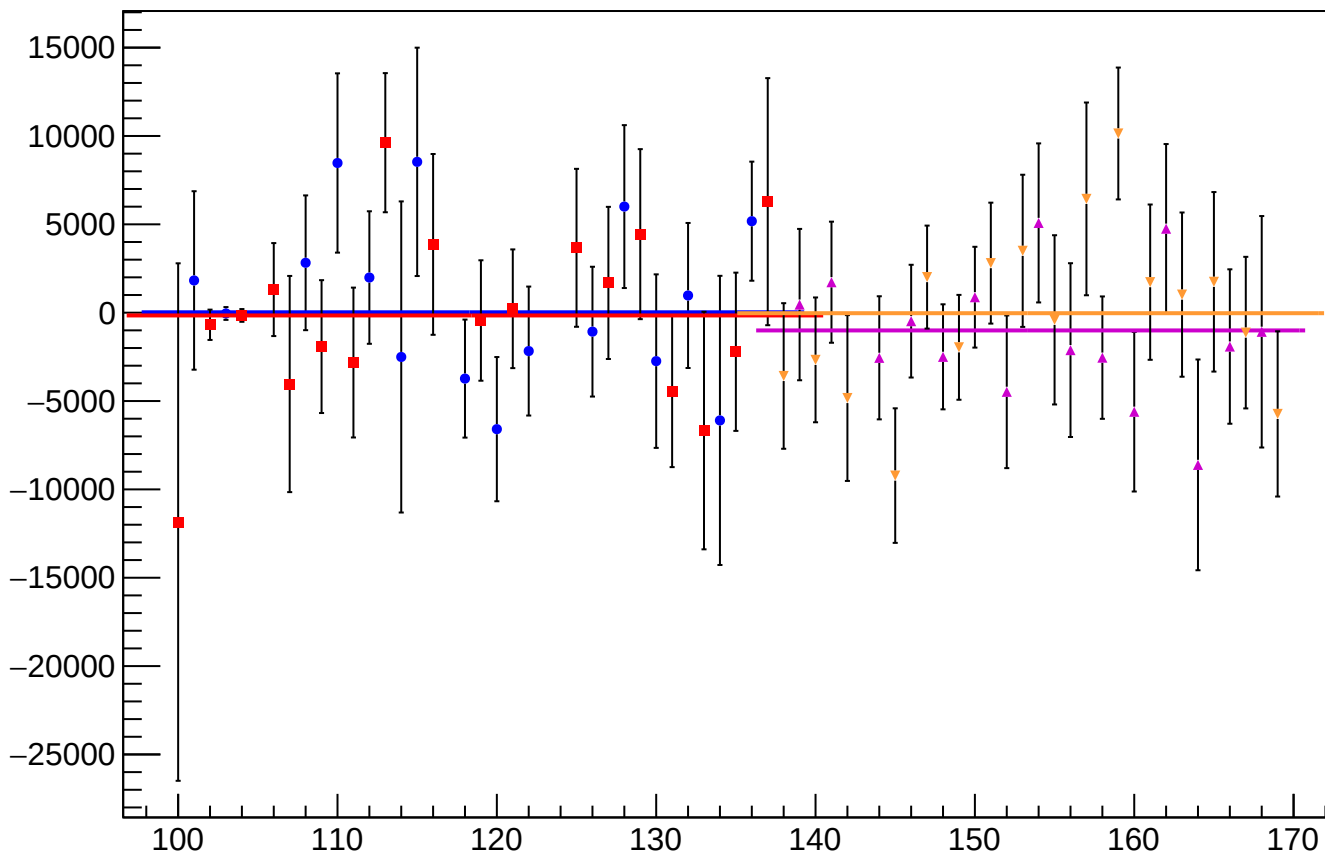
Right: 1132.987 $\pm$ 0.215 χ^2 /NDF: 842560.5/33

In: 1123.535 $\pm$ 0.181 χ^2 /NDF: 649611.7/30

Out: 1126.322 $\pm$ 0.180 χ^2 /NDF: 255492.3/33

All: 1124.936 $\pm$ 0.128 χ^2 /NDF: 905223.4/64

asym_us_avg_atlr_avg_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 21.645 $\pm$ 344.525 χ^2 /NDF: 14.9/15

Left Out: -29.101 $\pm$ 994.957 χ^2 /NDF:21.2/15

Right Out: -156.231 $\pm$ 317.367 χ^2 /NDF: 14.0/17

Left In: -1004.462 $\pm$ 1009.853 χ^2 /NDF:8.5/14

Left: -509.535 $\pm$ 708.749 χ^2 /NDF: 30.2/30

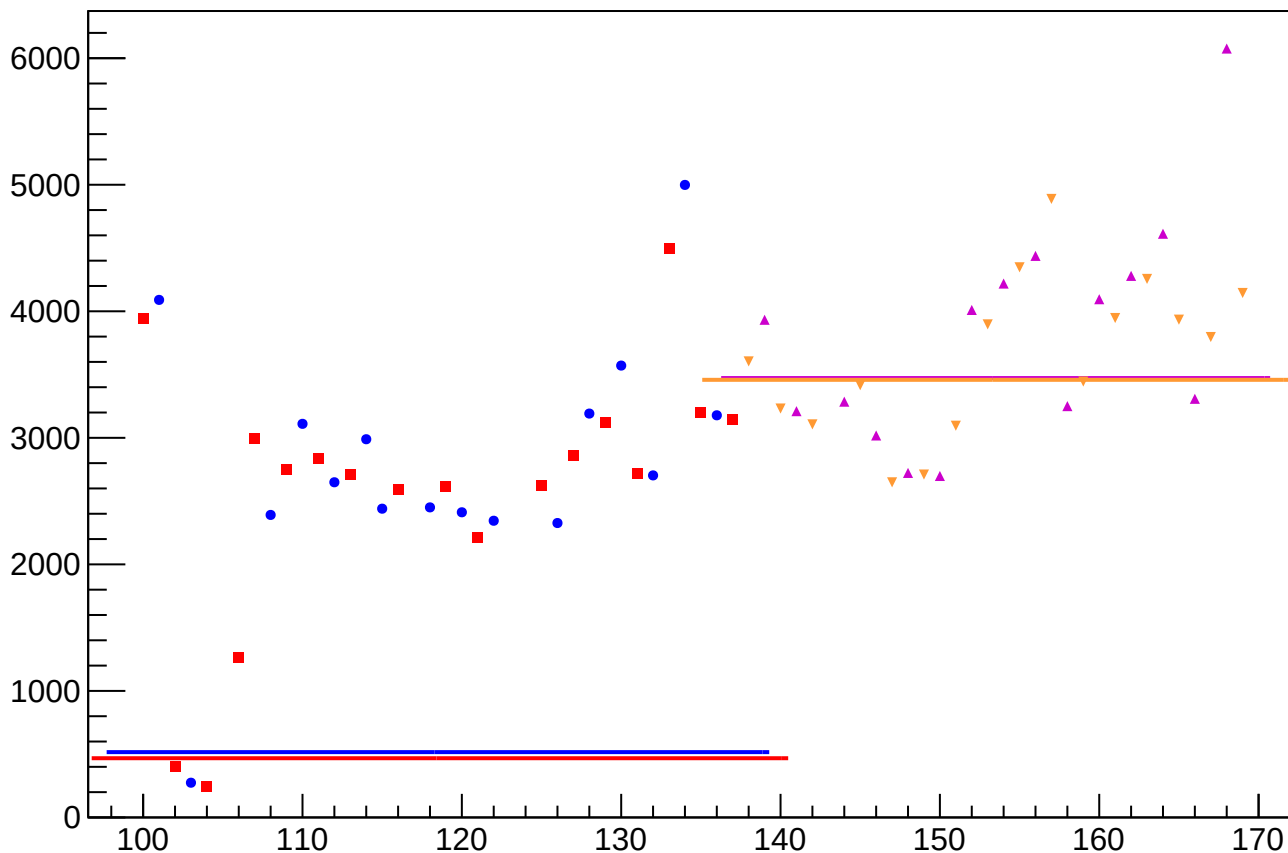
Right: -74.579 $\pm$ 233.424 χ^2 /NDF: 29.0/33

In: -85.335 $\pm$ 326.071 χ^2 /NDF:24.3/30

Out: -144.490 $\pm$ 302.358 χ^2 /NDF:35.2/33

All: -117.142 $\pm$ 221.709 χ^2 /NDF: 59.5/64

asym_us_avg_atlr_avg_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 516.297 $\pm$ 0.244 χ^2 /NDF: 9834669.6/15

Left Out: 3458.396 $\pm$ 0.704 χ^2 /NDF: 710338.9/15

Right Out: 468.060 $\pm$ 0.224 χ^2 /NDF: 9111222.0/17

Left In: 3472.431 $\pm$ 0.714 χ^2 /NDF: 1013782.9/14

Left: 3465.309 $\pm$ 0.501 χ^2 /NDF: 1724317.8/30

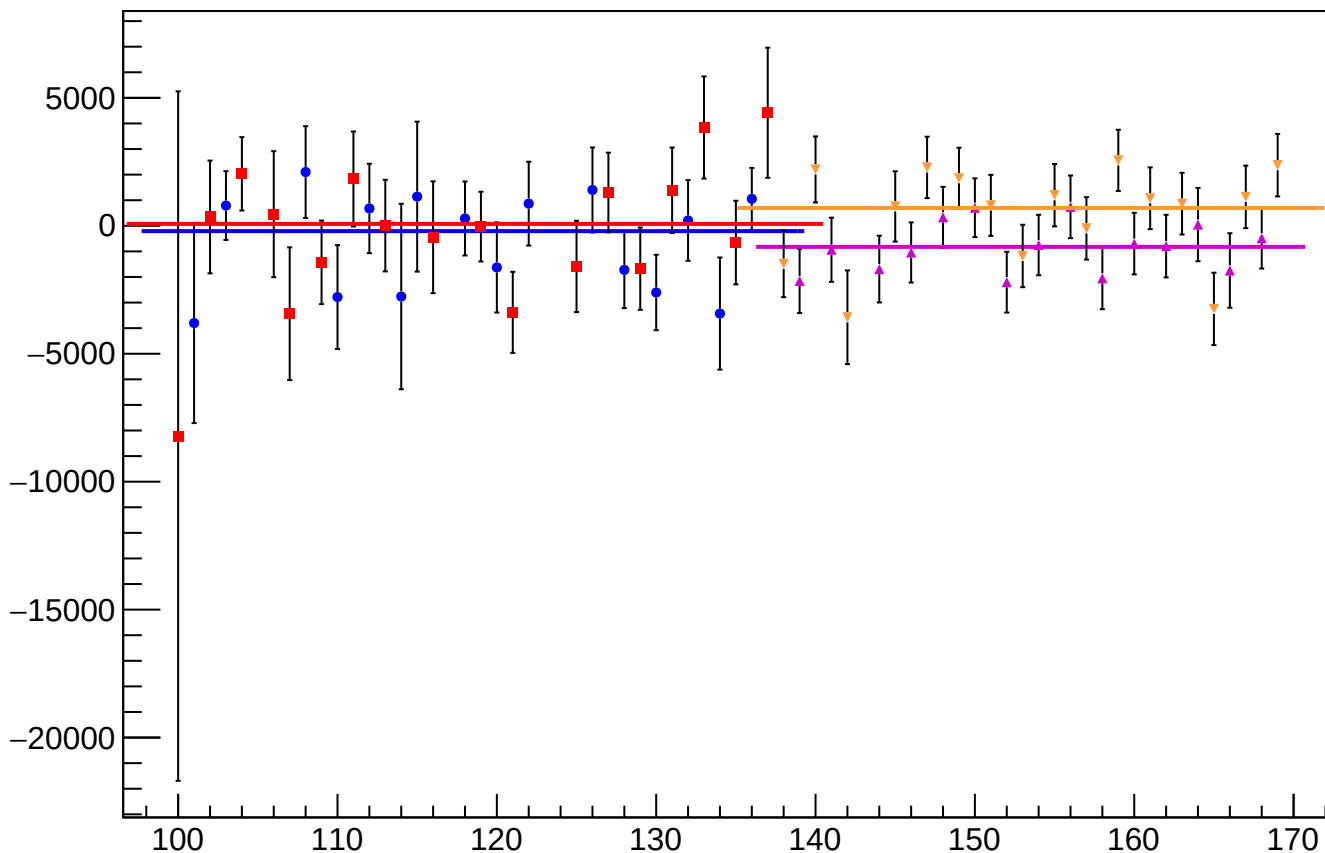
Right: 490.202 $\pm$ 0.165 χ^2 /NDF: 18967100.3/33

In: 824.497 $\pm$ 0.231 χ^2 /NDF: 26199755.0/30

Out: 744.216 $\pm$ 0.214 χ^2 /NDF: 26219159.6/33

All: 781.331 $\pm$ 0.157 χ^2 /NDF: 52484101.9/64

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -208.110+/-429.155 χ^2/NDF : 14.8/15

Left Out: 699.531+/-315.369 χ^2/NDF : 27.6/15

Right Out: 75.761+/-430.760 χ^2/NDF : 20.7/17

Left In: -822.624+/-318.394 χ^2/NDF : 9.2/14

Left: -54.282+/-224.062 χ^2/NDF : 48.4/30

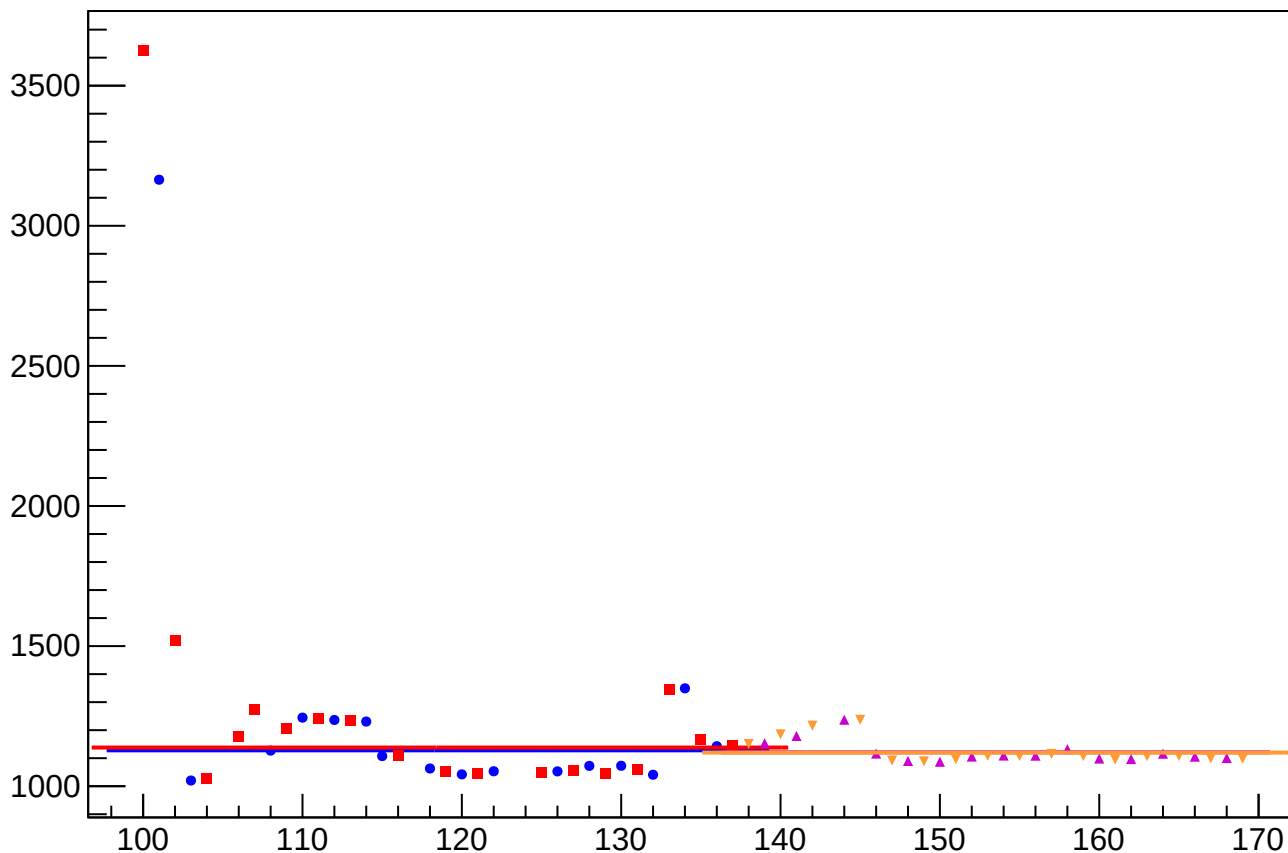
Right: -66.705+/-304.024 χ^2/NDF : 35.6/33

In: -604.460+/-255.705 χ^2/NDF : 25.3/30

Out: 481.860+/-254.462 χ^2/NDF : 49.6/33

All: -58.654+/-180.370 χ^2/NDF : 84.0/64

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1128.007+/-0.303 χ^2/NDF : 621395.6/15

Left Out: 1120.056+/-0.223 χ^2/NDF : 32606.8/15

Right Out: 1138.000+/-0.304 χ^2/NDF : 220624.5/17

Left In: 1121.074+/-0.225 χ^2/NDF : 27879.3/14

Left: 1120.560+/-0.158 χ^2/NDF : 60496.5/30

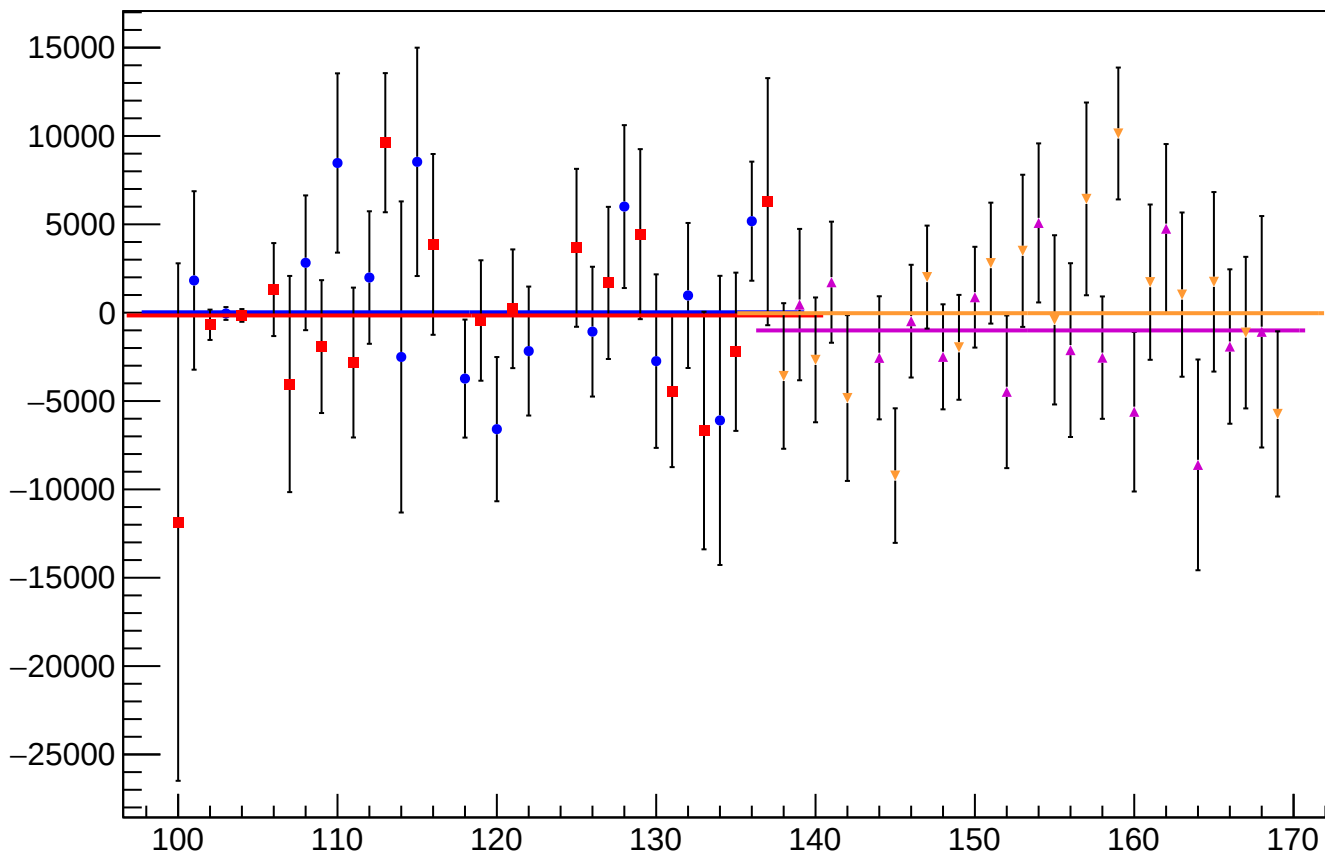
Right: 1132.987+/-0.215 χ^2/NDF : 842560.5/33

In: 1123.535+/-0.181 χ^2/NDF : 649611.7/30

Out: 1126.322+/-0.180 χ^2/NDF : 255492.3/33

All: 1124.936+/-0.128 χ^2/NDF : 905223.4/64

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 21.645+/-344.525 χ^2/NDF : 14.9/15

Left Out: -29.101+/-994.957 χ^2/NDF :21.2/15

Right Out: -156.231+/-317.367 χ^2/NDF : 14.0/17

Left In: -1004.462+/-1009.853 χ^2/NDF :8.5/14

Left: -509.535+/-708.749 χ^2/NDF : 30.2/30

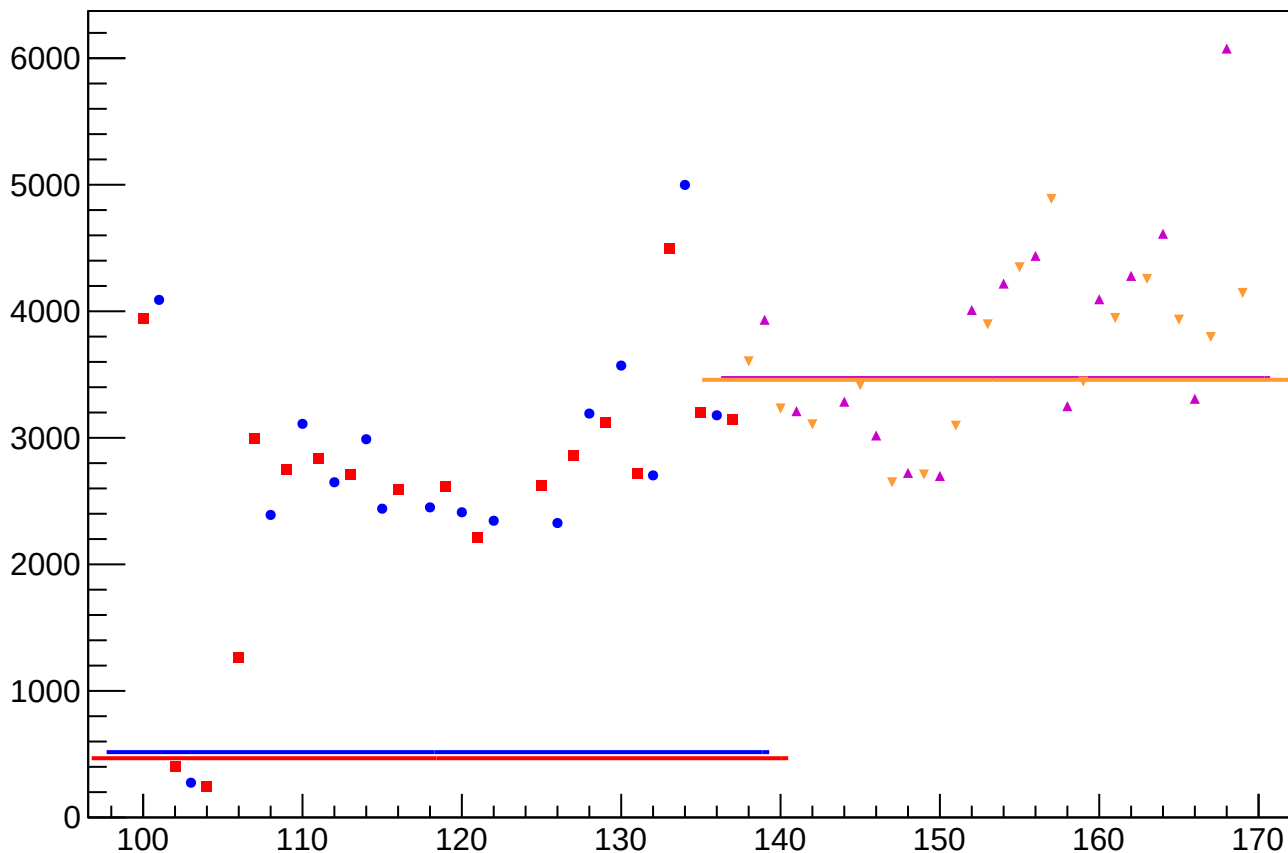
Right: -74.579+/-233.424 χ^2/NDF : 29.0/33

In: -85.335+/-326.071 χ^2/NDF :24.3/30

Out: -144.490+/-302.358 χ^2/NDF :35.2/33

All: -117.142+/-221.709 χ^2/NDF : 59.5/64

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 516.297+/-0.244 χ^2/NDF : 9834669.6/15

Left Out: 3458.396+/-0.704 χ^2/NDF : 710338.9/15

Right Out: 468.060+/-0.224 χ^2/NDF : 9111222.0/17

Left In: 3472.431+/-0.714 χ^2/NDF : 1013782.9/14

Left: 3465.309+/-0.501 χ^2/NDF : 1724317.8/30

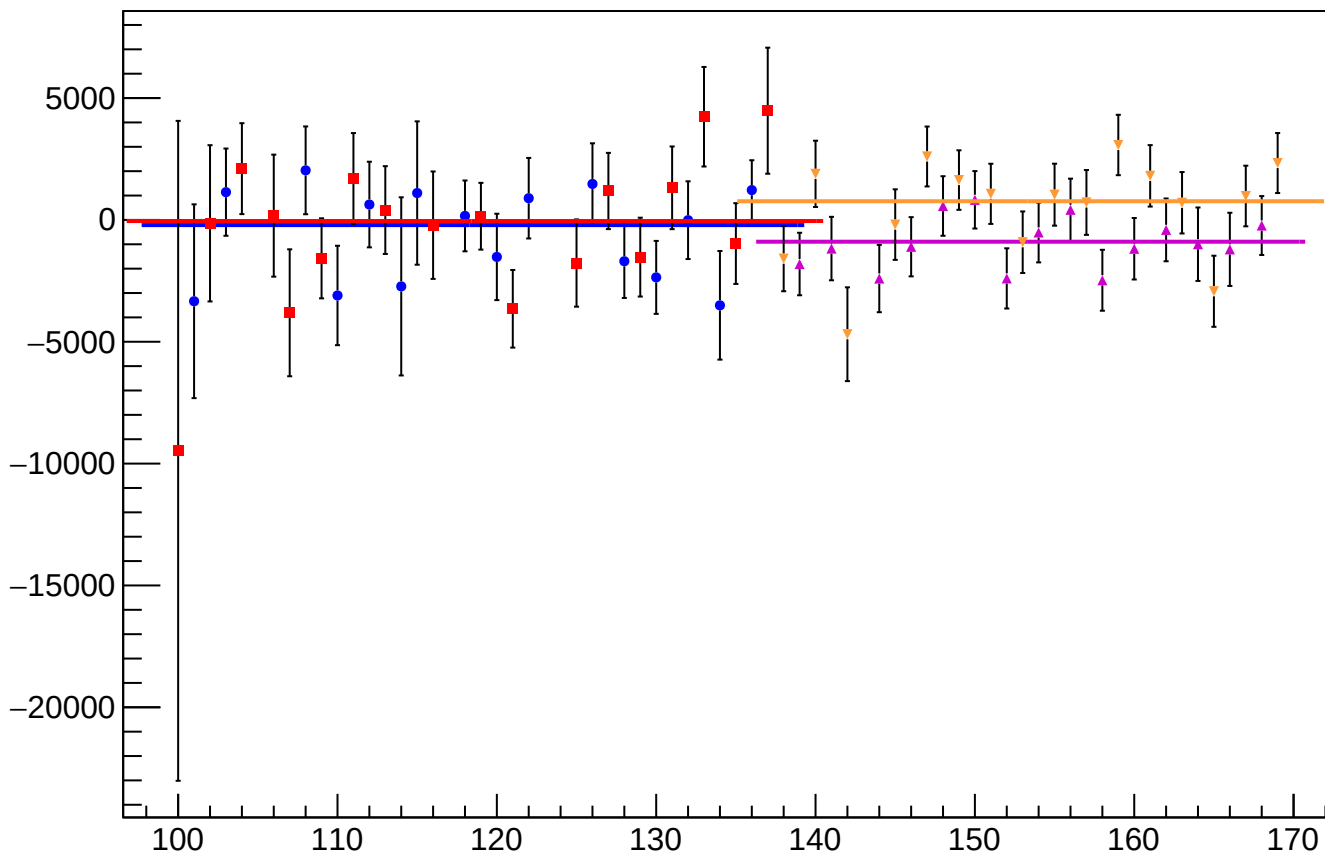
Right: 490.202+/-0.165 χ^2/NDF : 18967100.3/33

In: 824.497+/-0.231 χ^2/NDF : 26199755.0/30

Out: 744.216+/-0.214 χ^2/NDF : 26219159.6/33

All: 781.331+/-0.157 χ^2/NDF : 52484101.9/64

dit_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -213.079+/-442.684 χ^2/NDF : 14.3/15

Left Out: 766.371+/-327.315 χ^2/NDF : 29.1/15

Right Out: -45.535+/-447.221 χ^2/NDF : 21.7/17

Left In: -894.121+/-330.417 χ^2/NDF : 10.1/14

Left: -56.044+/-232.536 χ^2/NDF : 52.0/30

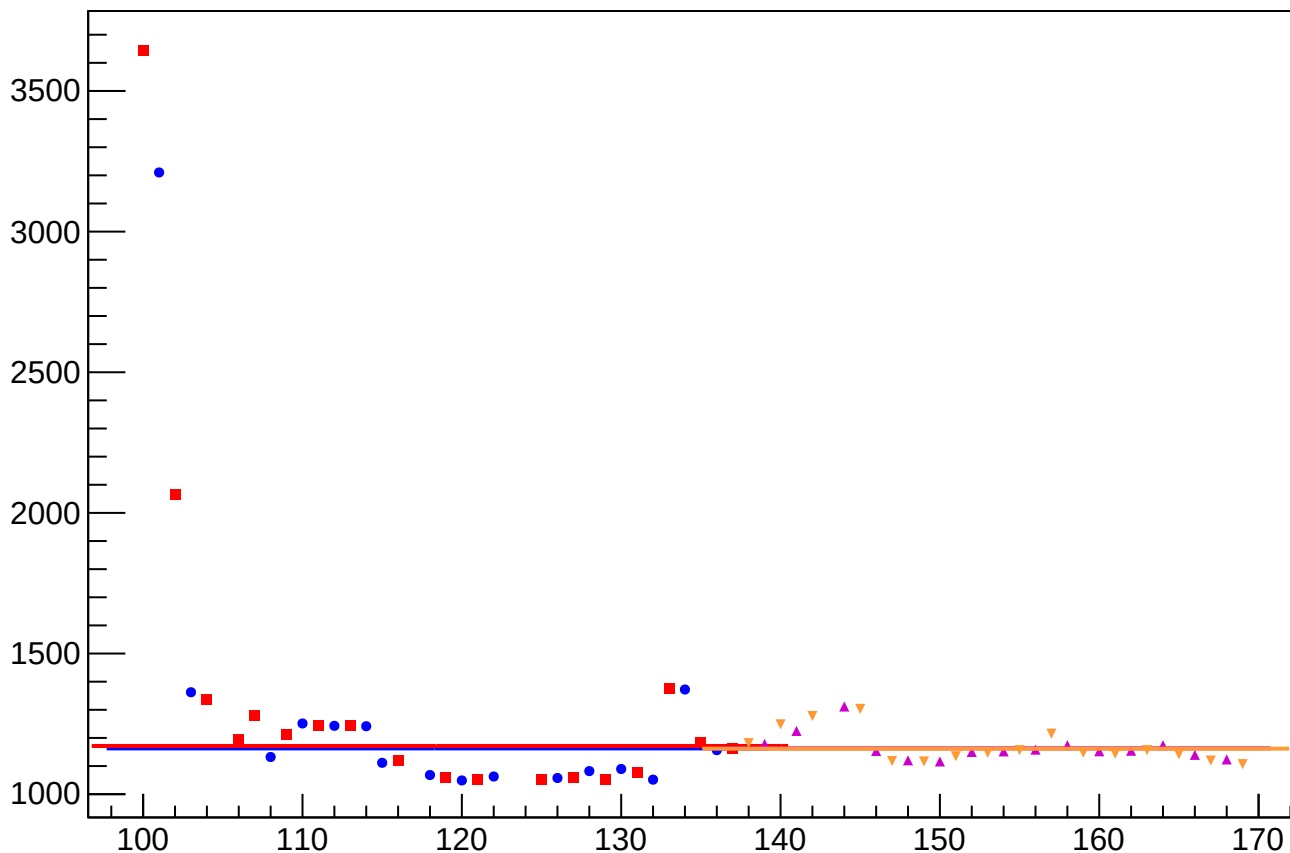
Right: -130.161+/-314.617 χ^2/NDF : 36.1/33

In: -650.456+/-264.791 χ^2/NDF : 26.0/30

Out: 483.167+/-264.131 χ^2/NDF : 52.9/33

All: -82.229+/-187.002 χ^2/NDF : 88.1/64

dit_asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1162.851+/-0.313 χ^2/NDF : 635353.4/15

Left Out: 1161.828+/-0.231 χ^2/NDF : 52031.8/15

Right Out: 1171.420+/-0.316 χ^2/NDF : 331640.8/17

Left In: 1163.051+/-0.234 χ^2/NDF : 37119.1/14

Left: 1162.434+/-0.164 χ^2/NDF : 89164.7/30

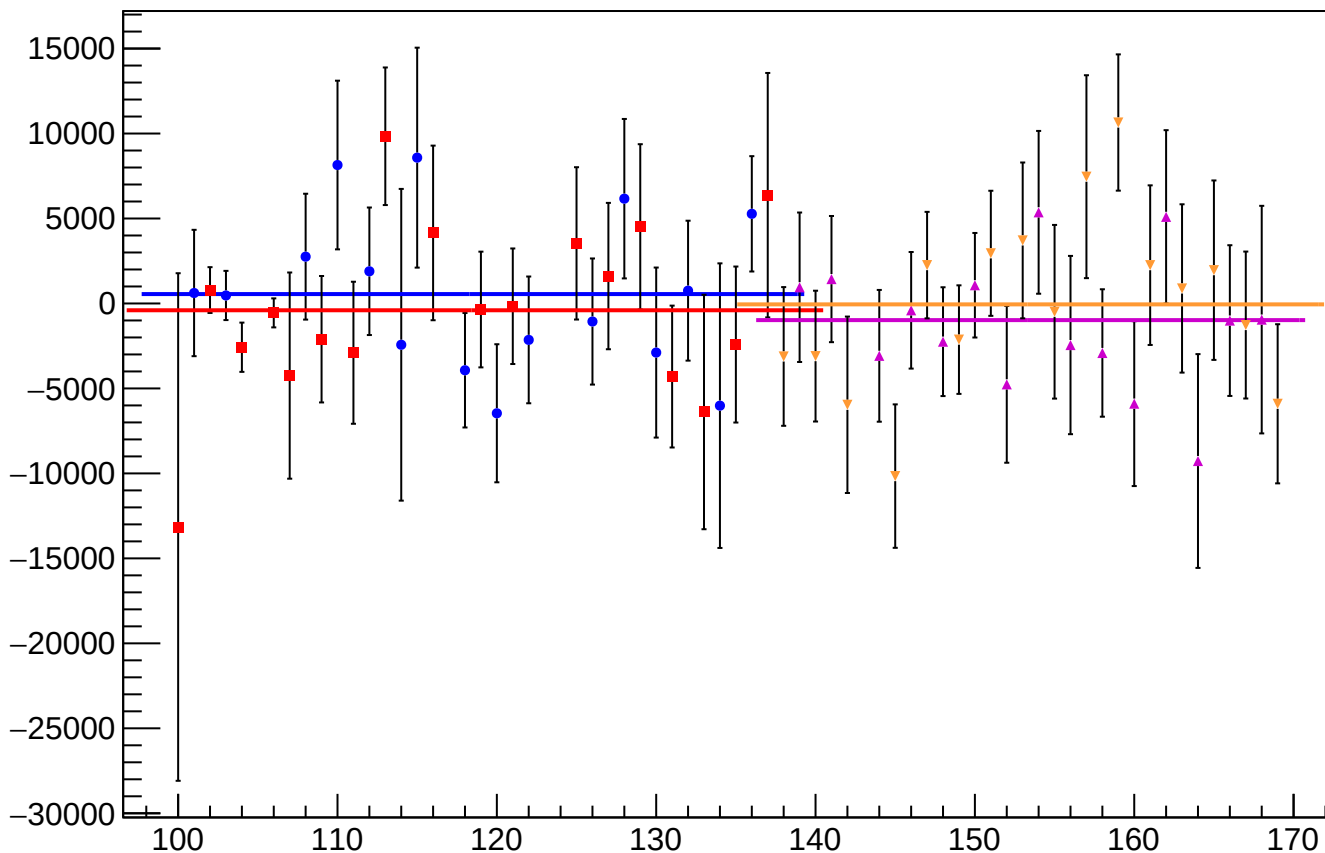
Right: 1167.094+/-0.222 χ^2/NDF : 967365.3/33

In: 1162.979+/-0.187 χ^2/NDF : 672472.8/30

Out: 1165.176+/-0.187 χ^2/NDF : 384272.1/33

All: 1164.081+/-0.132 χ^2/NDF : 1056813.9/64

asym_us_avg_atlr_avg_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 552.517 $\pm$ 874.128 χ^2 /NDF: 14.4/15

Left Out: -53.418 $\pm$ 1058.917 χ^2 /NDF:21.3/15

Right Out: -400.432 $\pm$ 565.871 χ^2 /NDF: 16.7/17

Left In: -979.692 $\pm$ 1080.572 χ^2 /NDF:8.5/14

Left: -507.181 $\pm$ 756.307 χ^2 /NDF: 30.2/30

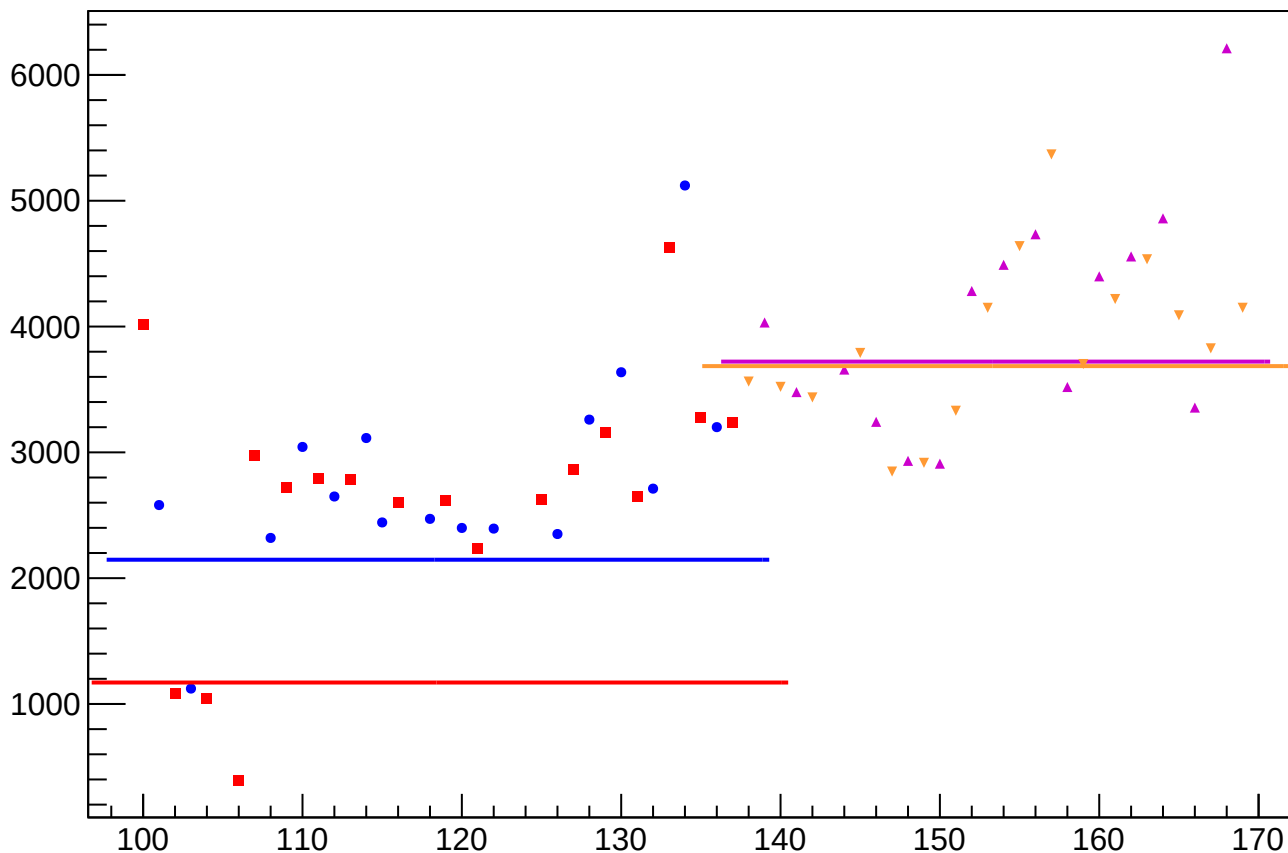
Right: -119.015 $\pm$ 475.024 χ^2 /NDF: 31.9/33

In: -53.550 $\pm$ 679.602 χ^2 /NDF:24.1/30

Out: -323.348 $\pm$ 499.079 χ^2 /NDF:38.1/33

All: -228.823 $\pm$ 402.261 χ^2 /NDF: 62.3/64

asym_us_avg_atlr_avg_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2146.616 $\pm$ 0.618 χ^2 /NDF: 1974723.6/15

Left Out: 3685.538 $\pm$ 0.749 χ^2 /NDF: 655928.4/15

Right Out: 1170.573 $\pm$ 0.400 χ^2 /NDF: 5817478.8/17

Left In: 3721.337 $\pm$ 0.764 χ^2 /NDF: 928576.8/14

Left: 3703.075 $\pm$ 0.535 χ^2 /NDF: 1585625.1/30

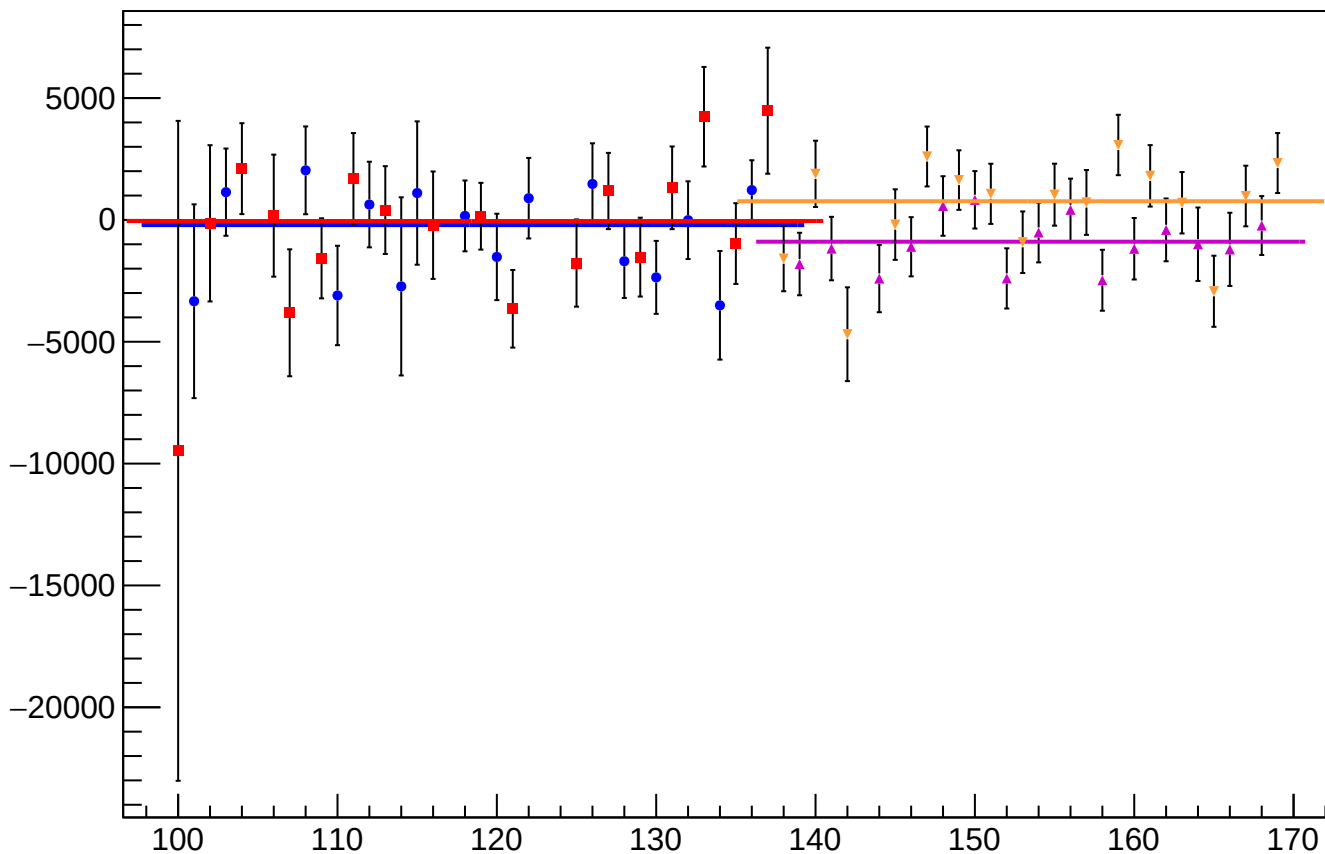
Right: 1458.811 $\pm$ 0.336 χ^2 /NDF: 9549375.1/33

In: 2769.499 $\pm$ 0.481 χ^2 /NDF: 5470679.1/30

Out: 1729.233 $\pm$ 0.353 χ^2 /NDF: 15248964.0/33

All: 2093.694 $\pm$ 0.284 χ^2 /NDF: 23763931.7/66

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -213.082+/-442.684 χ^2/NDF : 14.3/15

Left Out: 766.374+/-327.316 χ^2/NDF :29.1/15

Right Out: -45.539+/-447.221 χ^2/NDF : 21.7/17

Left In: -894.121+/-330.417 χ^2/NDF :10.1/14

Left: -56.043+/-232.536 χ^2/NDF : 52.0/30

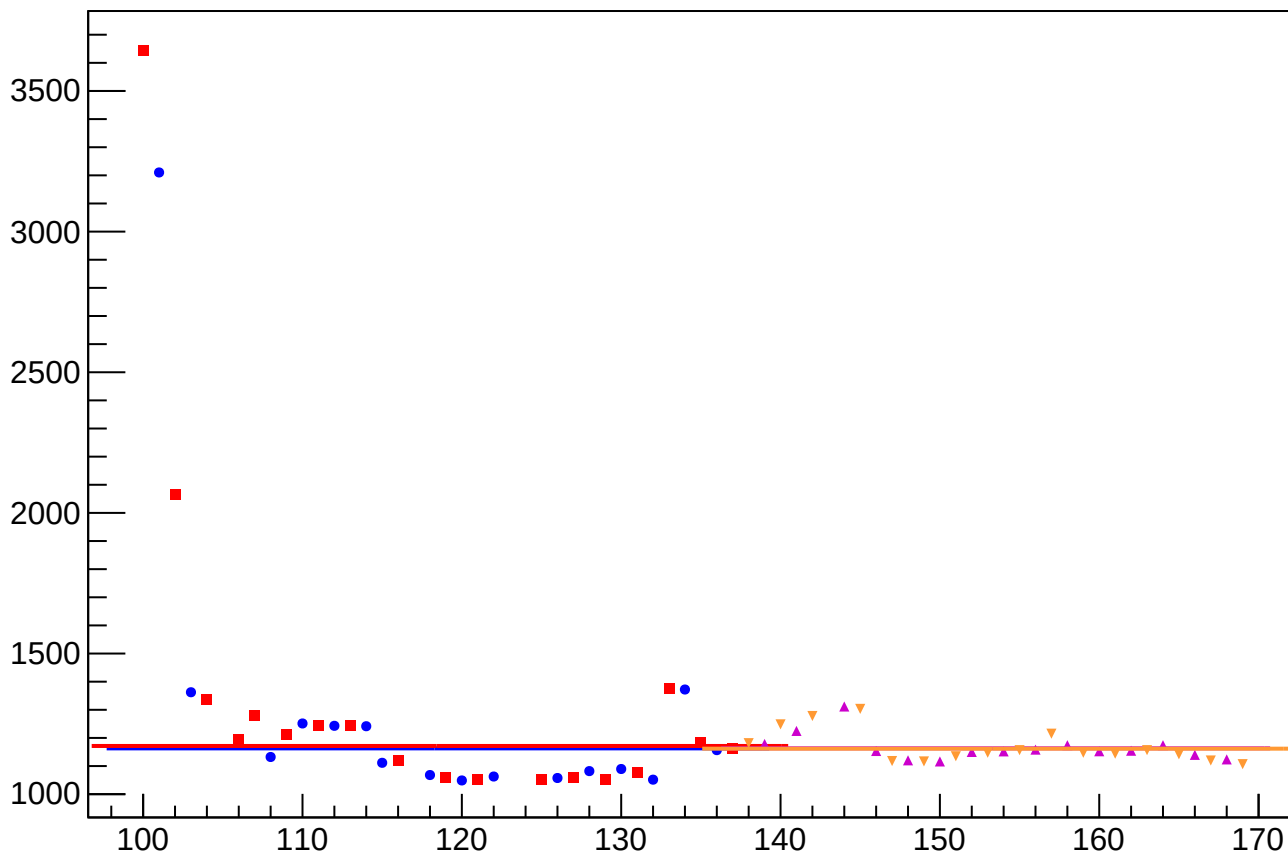
Right: -130.164+/-314.617 χ^2/NDF : 36.1/33

In: -650.457+/-264.791 χ^2/NDF :26.0/30

Out: 483.167+/-264.131 χ^2/NDF :52.9/33

All: -82.229+/-187.002 χ^2/NDF : 88.1/64

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 1162.851+/-0.313 χ^2/NDF : 635353.6/15

Left Out: 1161.829+/-0.231 χ^2/NDF : 52032.3/15

Right Out: 1171.420+/-0.316 χ^2/NDF : 331640.4/17

Left In: 1163.052+/-0.234 χ^2/NDF : 37119.3/14

Left: 1162.435+/-0.164 χ^2/NDF : 89165.4/30

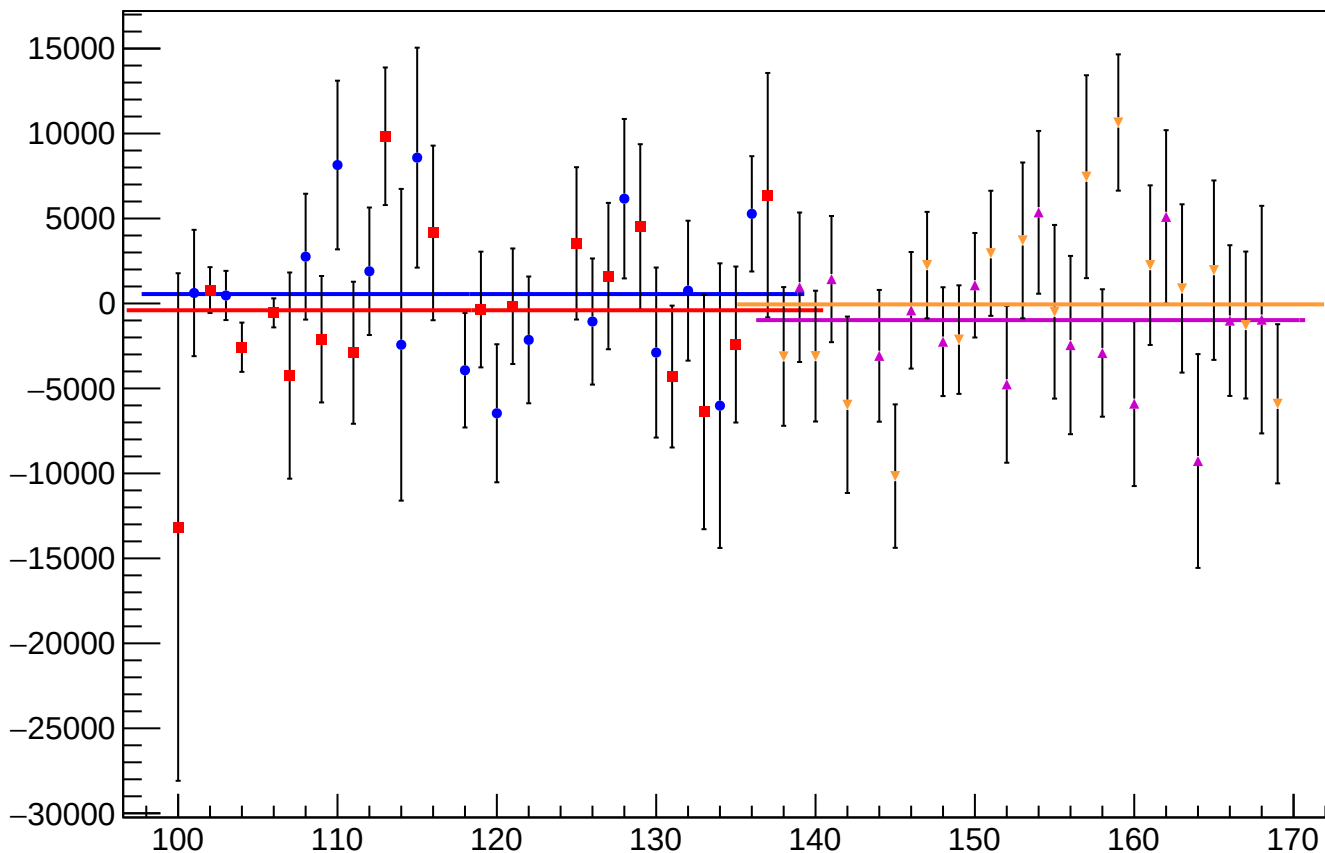
Right: 1167.094+/-0.222 χ^2/NDF : 967365.1/33

In: 1162.980+/-0.187 χ^2/NDF : 672473.1/30

Out: 1165.177+/-0.187 χ^2/NDF : 384272.2/33

All: 1164.081+/-0.132 χ^2/NDF : 1056814.3/64

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 552.510 $\pm$ 874.126 χ^2 /NDF: 14.4/15

Left Out: -53.419 $\pm$ 1058.918 χ^2 /NDF:21.3/15

Right Out: -400.433 $\pm$ 565.864 χ^2 /NDF: 16.7/17

Left In: -979.690 $\pm$ 1080.573 χ^2 /NDF:8.5/14

Left: -507.180 $\pm$ 756.308 χ^2 /NDF: 30.2/30

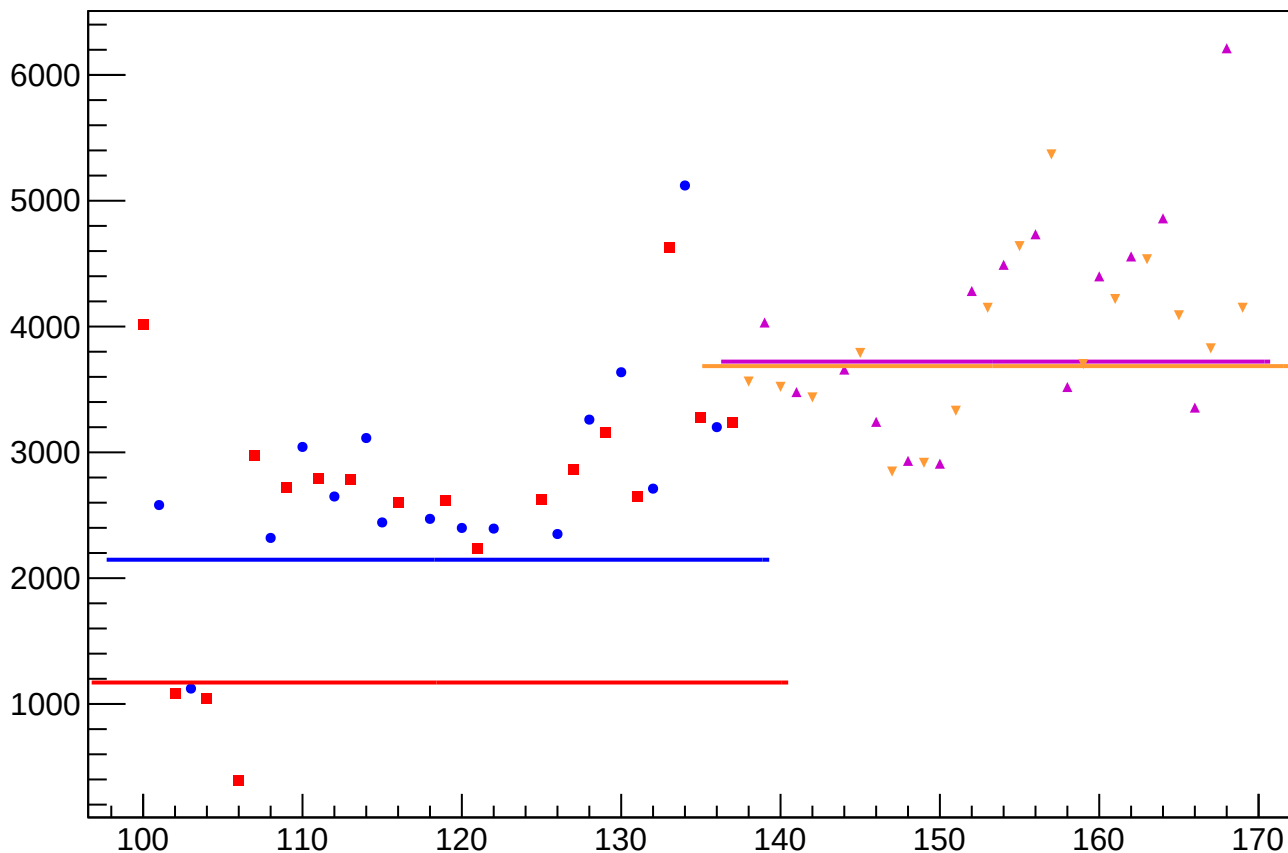
Right: -119.022 $\pm$ 475.020 χ^2 /NDF: 31.9/33

In: -53.551 $\pm$ 679.602 χ^2 /NDF:24.1/30

Out: -323.351 $\pm$ 499.075 χ^2 /NDF:38.1/33

All: -228.827 $\pm$ 402.259 χ^2 /NDF: 62.3/64

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2146.613+/-0.618 χ^2/NDF : 1974719.3/15

Left Out: 3685.542+/-0.749 χ^2/NDF : 655930.3/15

Right Out: 1170.550+/-0.400 χ^2/NDF : 5817605.6/17

Left In: 3721.342+/-0.764 χ^2/NDF : 928578.7/14

Left: 3703.080+/-0.535 χ^2/NDF : 1585628.8/30

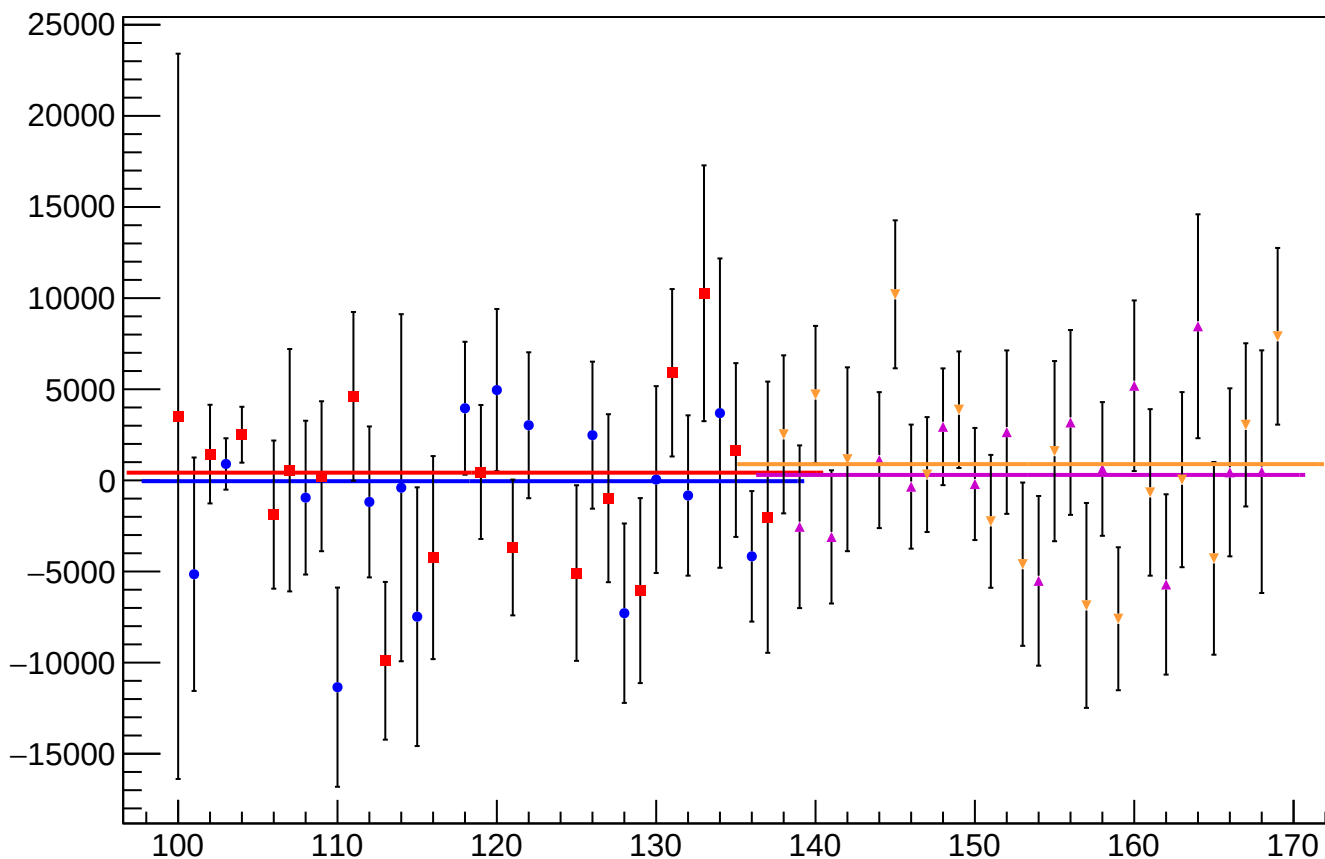
Right: 1458.789+/-0.336 χ^2/NDF : 9549586.1/33

In: 2769.497+/-0.481 χ^2/NDF : 5470701.3/30

Out: 1729.205+/-0.353 χ^2/NDF : 15249315.1/33

All: 2093.671+/-0.284 χ^2/NDF : 23764480.3/66

asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected



Right In: -44.874 ± 920.736 $\chi^2/\text{NDF}: 13.7/15$

Left Out: 889.903 ± 1051.717 $\chi^2/\text{NDF}: 19.6/15$

Right Out: 423.476 ± 896.736 $\chi^2/\text{NDF}: 17.3/17$

Left In: 299.031 ± 1067.216 $\chi^2/\text{NDF}: 8.6/14$

Left: 598.789 ± 749.096 $\chi^2/\text{NDF}: 28.3/30$

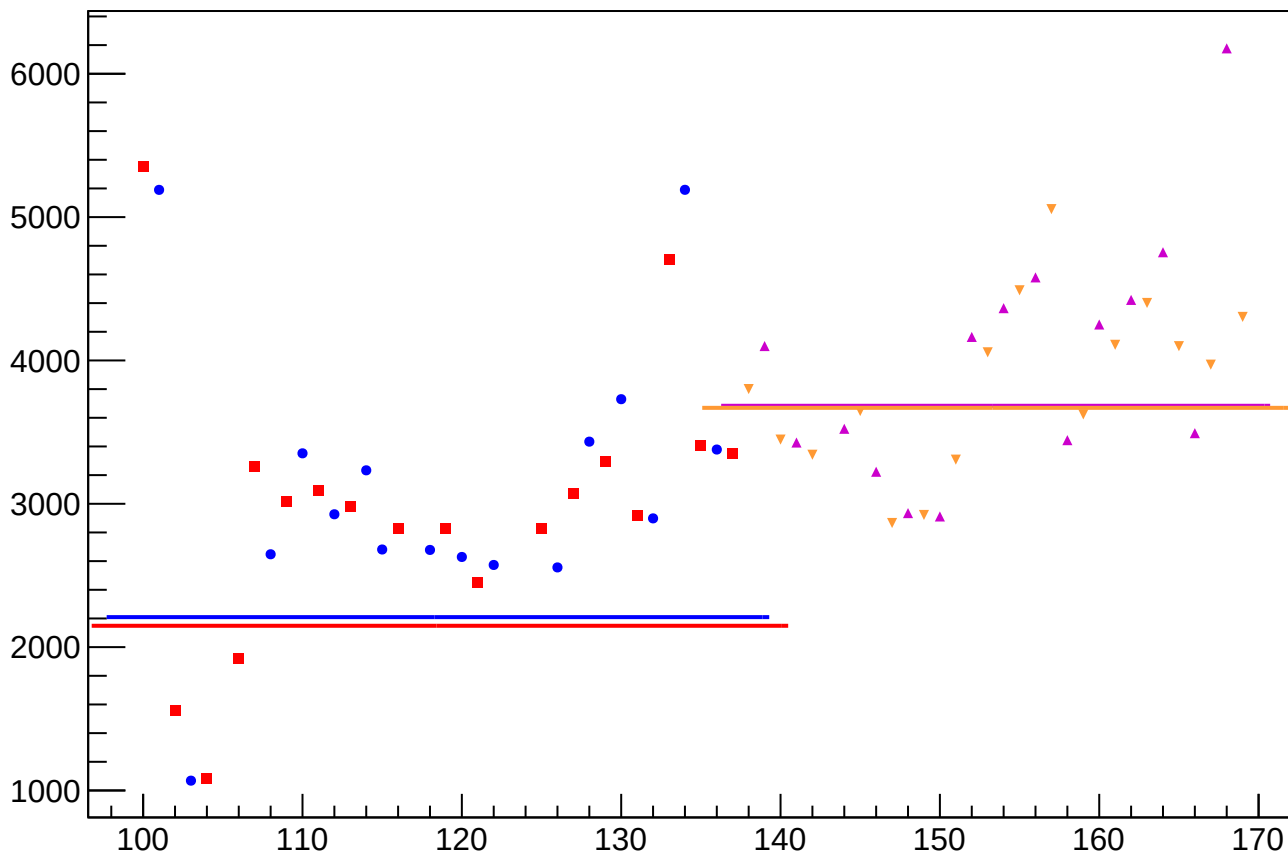
Right: 195.485 ± 642.405 $\chi^2/\text{NDF}: 31.2/33$

In: 101.875 ± 697.141 $\chi^2/\text{NDF}: 22.4/30$

Out: 619.823 ± 682.368 $\chi^2/\text{NDF}: 37.1/33$

All: 366.395 ± 487.646 $\chi^2/\text{NDF}: 59.7/64$

asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected



Right In: 2209.349+/-0.651 χ^2/NDF : 2836875.7/15

Left Out: 3669.396+/-0.744 χ^2/NDF : 589212.5/15

Right Out: 2148.948+/-0.633 χ^2/NDF : 2269660.8/17

Left In: 3683.771+/-0.755 χ^2/NDF : 858222.5/14

Left: 3676.478+/-0.530 χ^2/NDF : 1447619.1/30

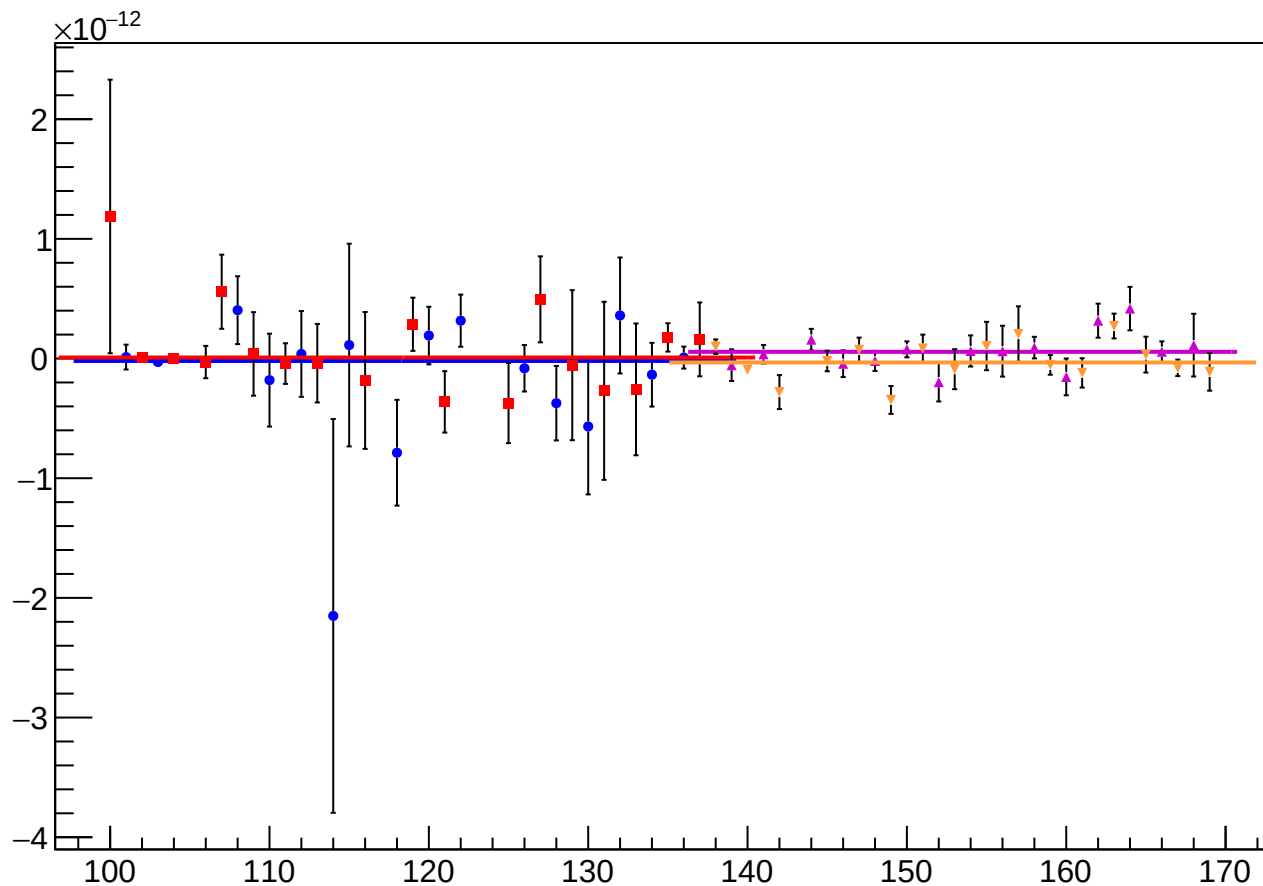
Right: 2178.279+/-0.454 χ^2/NDF : 5110964.0/33

In: 2838.503+/-0.493 χ^2/NDF : 5883570.6/30

Out: 2787.220+/-0.482 χ^2/NDF : 5284137.7/33

All: 2812.277+/-0.345 χ^2/NDF : 11173243.0/66

asym_us_avg_atlr_avg_dd_reg_vs_slug_sign_corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 13.7/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 31.0/15

Right Out: 0.000 ± 0.000 χ^2/NDF : 14.0/17

Left In: 0.000 ± 0.000 χ^2/NDF : 15.6/14

Left: 0.000 ± 0.000 χ^2/NDF : 52.9/30

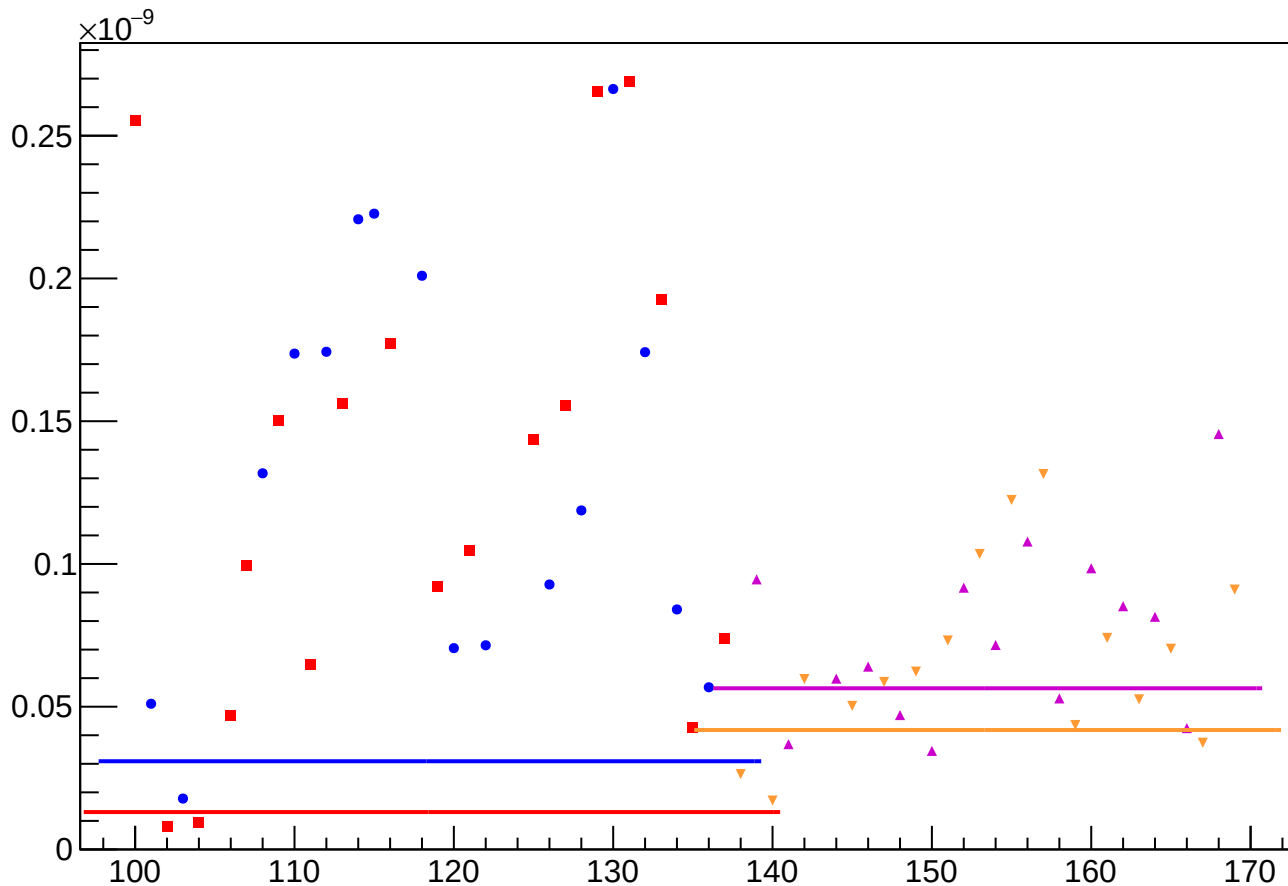
Right: 0.000 ± 0.000 χ^2/NDF : 28.7/33

In: 0.000 ± 0.000 χ^2/NDF : 33.5/30

Out: -0.000 ± 0.000 χ^2/NDF : 47.4/33

All: 0.000 ± 0.000 χ^2/NDF : 81.5/64

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2998577.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :2501753.7/15

Right Out: 0.000+/-0.000 χ^2/NDF : 3659260.7/17

Left In: 0.000+/-0.000 χ^2/NDF :1343294.5/14

Left: 0.000+/-0.000 χ^2/NDF : 4182394.7/30

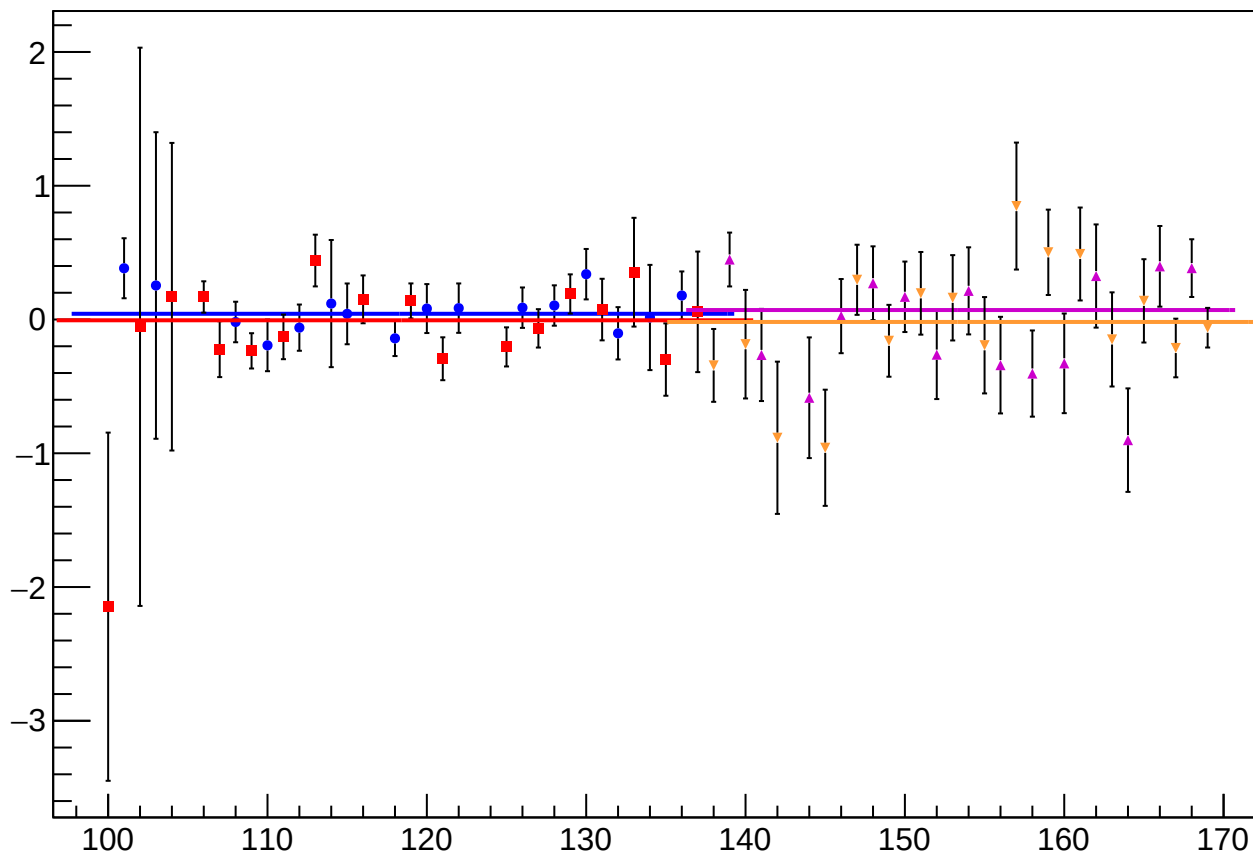
Right: 0.000+/-0.000 χ^2/NDF : 7385142.0/33

In: 0.000+/-0.000 χ^2/NDF :5265970.6/30

Out: 0.000+/-0.000 χ^2/NDF :8436863.7/33

All: 0.000+/-0.000 χ^2/NDF : 15411282.9/64

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043+/-0.047 χ^2/NDF : 10.3/15

Left Out: -0.018+/-0.072 χ^2/NDF : 20.8/15

Right Out: -0.006+/-0.043 χ^2/NDF : 26.0/17

Left In: 0.071+/-0.077 χ^2/NDF : 23.1/14

Left: 0.023+/-0.053 χ^2/NDF : 44.6/30

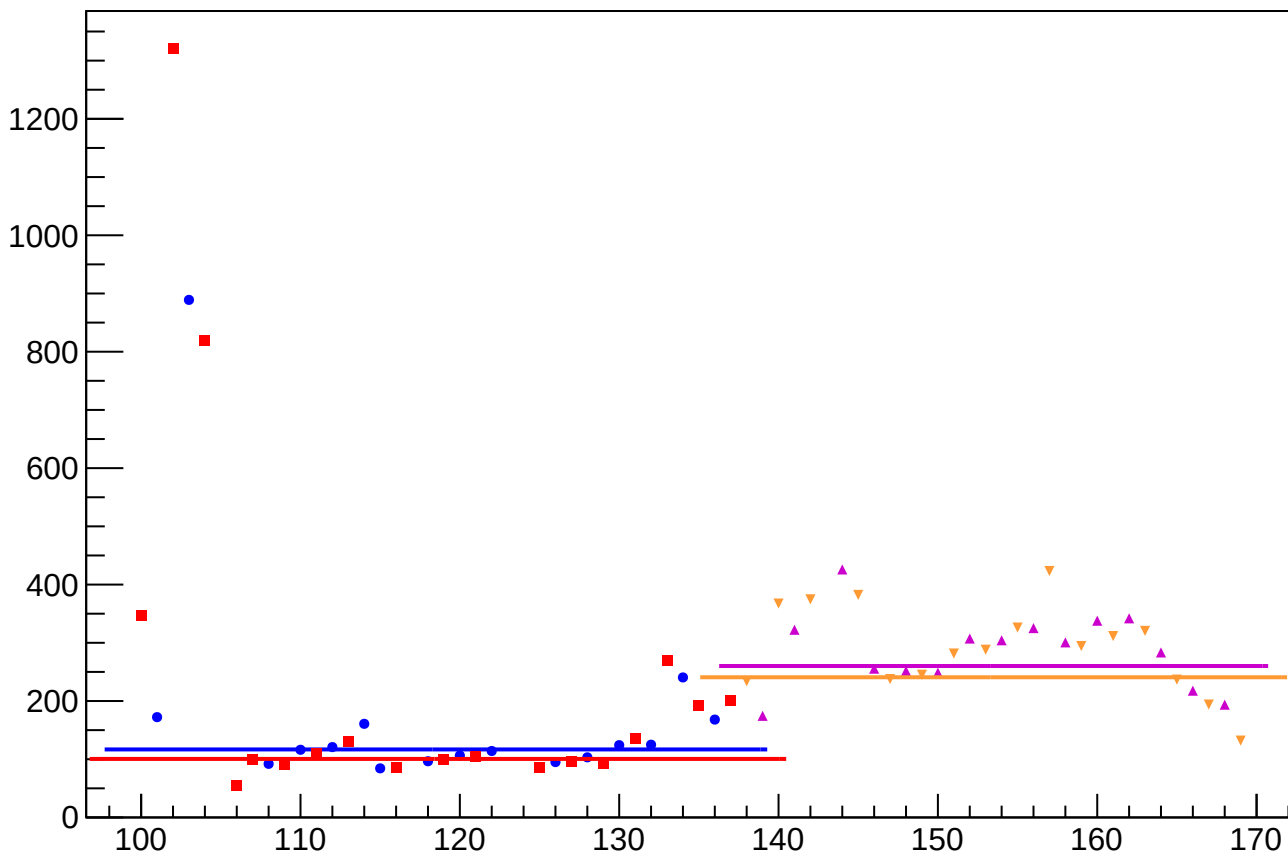
Right: 0.016+/-0.032 χ^2/NDF : 36.9/33

In: 0.050+/-0.040 χ^2/NDF : 33.5/30

Out: -0.009+/-0.037 χ^2/NDF : 46.8/33

All: 0.018+/-0.027 χ^2/NDF : 81.5/64

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 116.841+/-0.034 χ^2/NDF : 1620809.7/15

Left Out: 240.804+/-0.051 χ^2/NDF : 2418142.0/15

Right Out: 100.544+/-0.031 χ^2/NDF : 2664151.6/17

Left In: 260.142+/-0.055 χ^2/NDF : 1291325.4/14

Left: 249.822+/-0.037 χ^2/NDF : 3776312.7/30

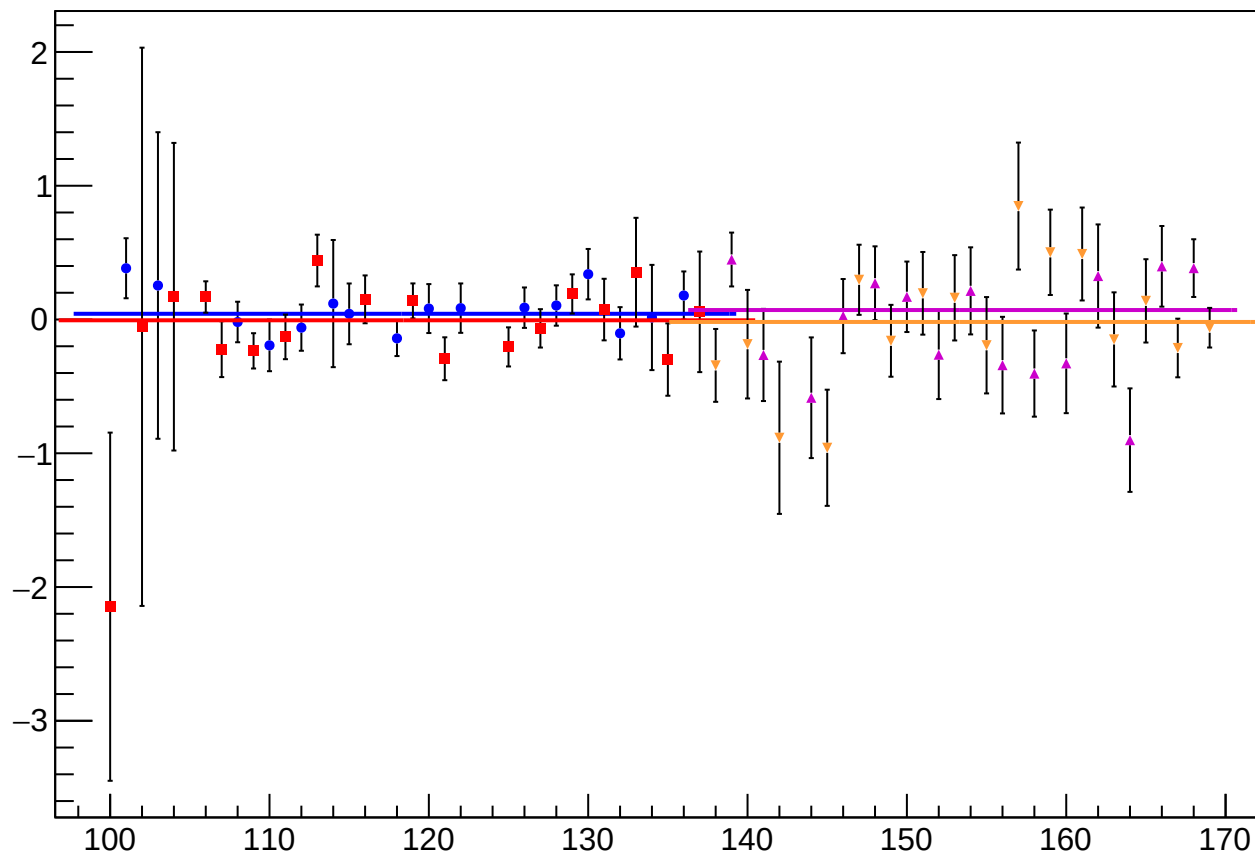
Right: 107.961+/-0.023 χ^2/NDF : 4413433.8/33

In: 156.099+/-0.029 χ^2/NDF : 7906097.4/30

Out: 137.725+/-0.026 χ^2/NDF : 10624562.0/33

All: 146.143+/-0.019 χ^2/NDF : 18754327.3/64

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043 $\pm$ 0.047 χ^2 /NDF: 10.3/15

Left Out: -0.018 $\pm$ 0.072 χ^2 /NDF:20.8/15

Right Out: -0.006 $\pm$ 0.043 χ^2 /NDF: 26.0/17

Left In: 0.071 $\pm$ 0.077 χ^2 /NDF:23.1/14

Left: 0.023 $\pm$ 0.053 χ^2 /NDF: 44.6/30

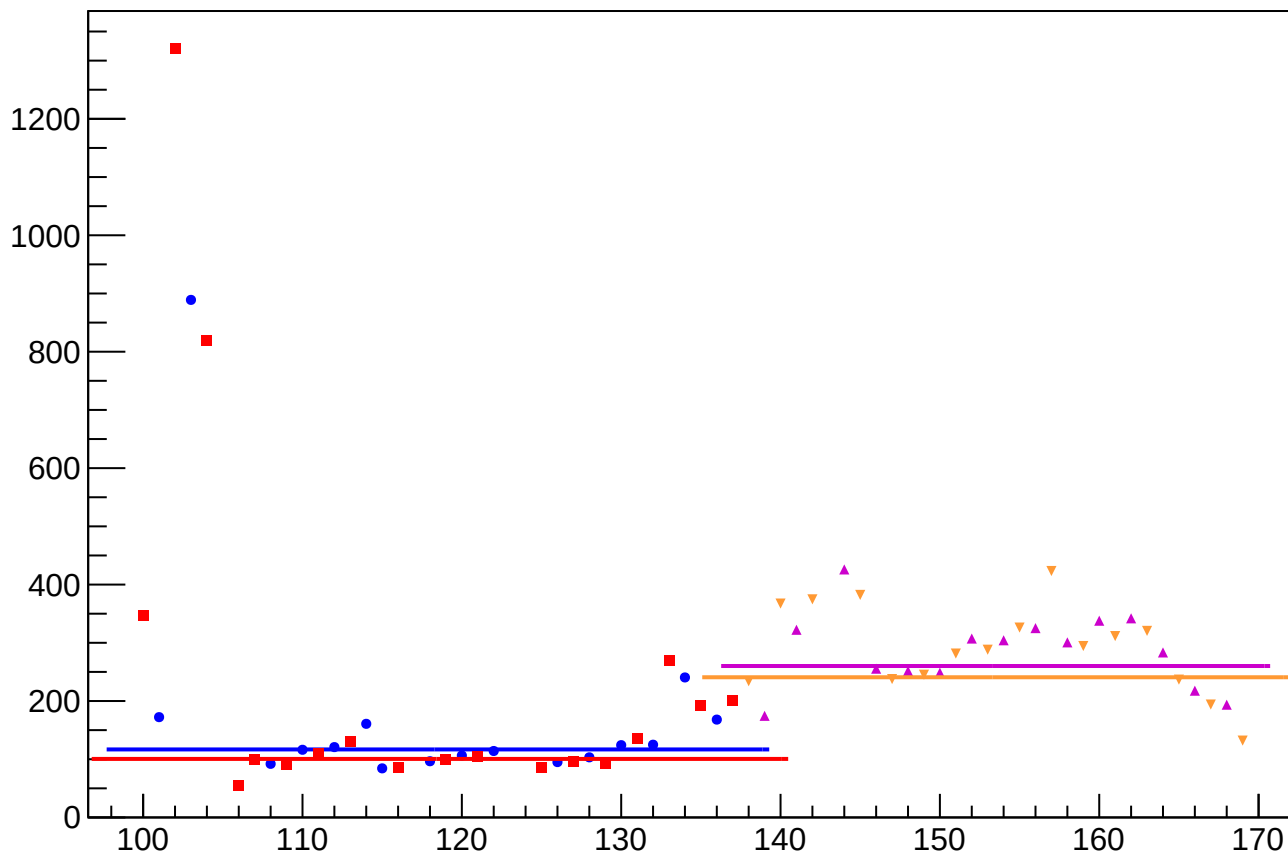
Right: 0.016 $\pm$ 0.032 χ^2 /NDF: 36.9/33

In: 0.050 $\pm$ 0.040 χ^2 /NDF:33.5/30

Out: -0.009 $\pm$ 0.037 χ^2 /NDF:46.8/33

All: 0.018 $\pm$ 0.027 χ^2 /NDF: 81.5/64

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 116.841+/-0.034 χ^2/NDF : 1620809.7/15

Left Out: 240.804+/-0.051 χ^2/NDF : 2418142.0/15

Right Out: 100.544+/-0.031 χ^2/NDF : 2664151.6/17

Left In: 260.142+/-0.055 χ^2/NDF : 1291325.4/14

Left: 249.822+/-0.037 χ^2/NDF : 3776312.7/30

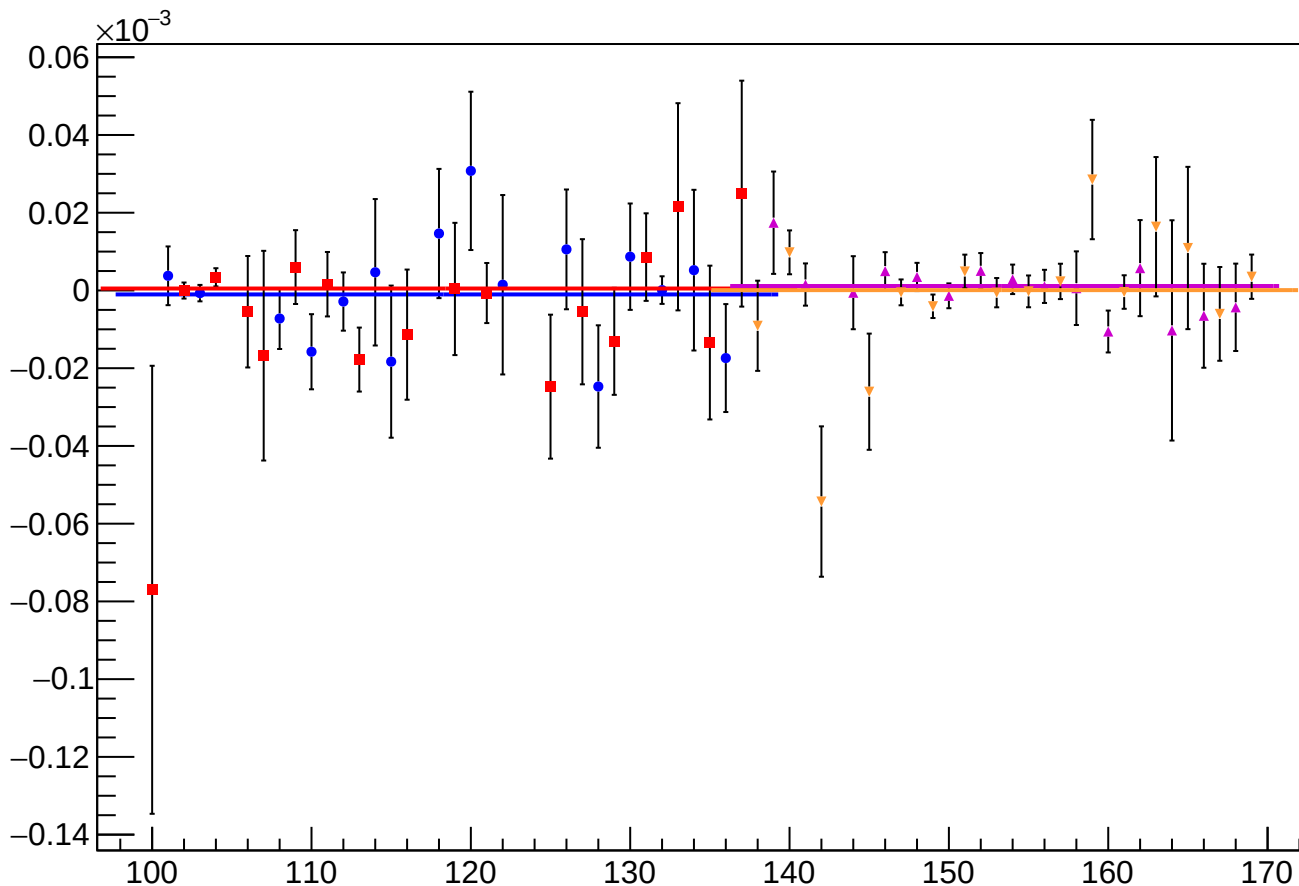
Right: 107.961+/-0.023 χ^2/NDF : 4413433.8/33

In: 156.099+/-0.029 χ^2/NDF : 7906097.4/30

Out: 137.725+/-0.026 χ^2/NDF : 10624562.0/33

All: 146.143+/-0.019 χ^2/NDF : 18754327.3/64

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 12.6/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 23.1/15

Right Out: 0.000 ± 0.000 χ^2/NDF : 15.1/17

Left In: 0.000 ± 0.000 χ^2/NDF : 9.7/14

Left: 0.000 ± 0.000 χ^2/NDF : 33.2/30

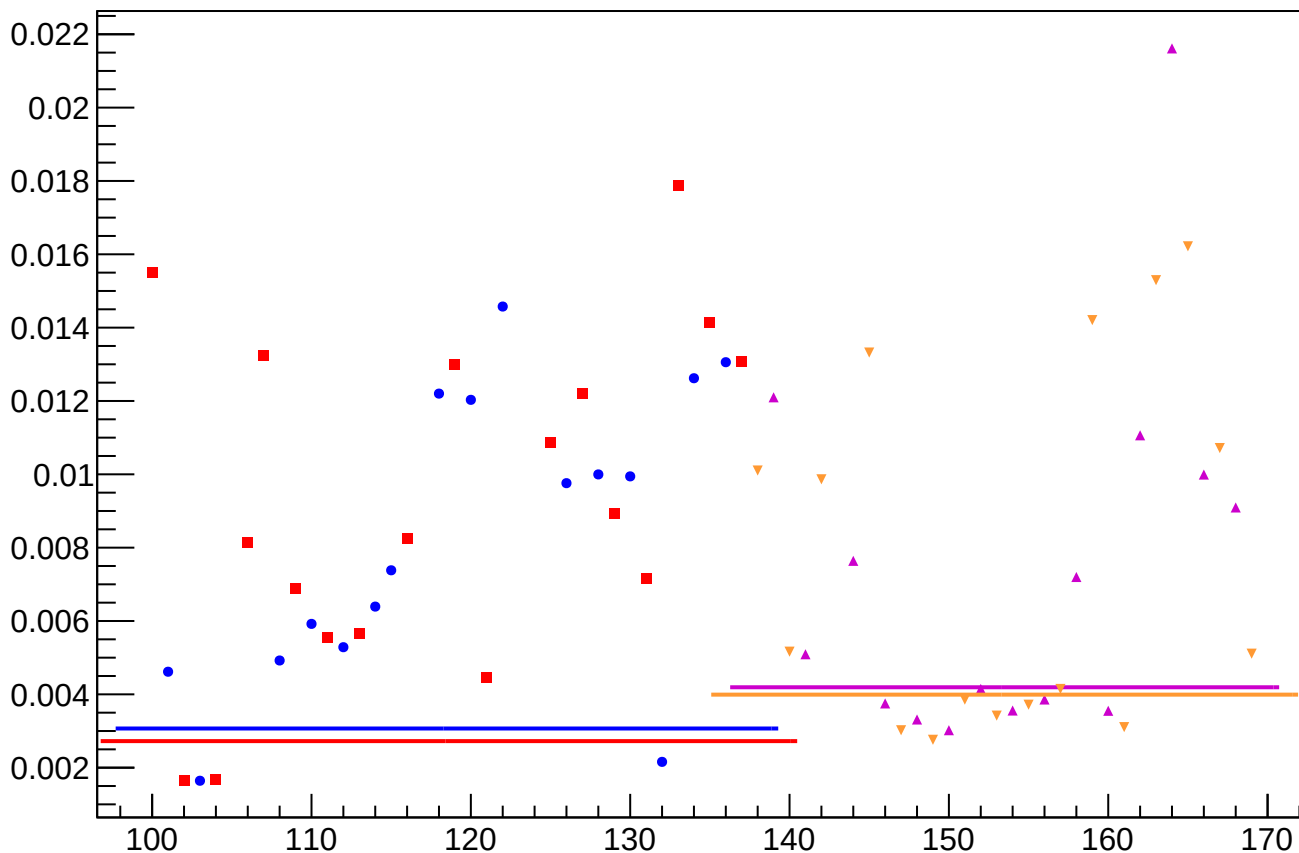
Right: -0.000 ± 0.000 χ^2/NDF : 28.1/33

In: 0.000 ± 0.000 χ^2/NDF : 23.4/30

Out: 0.000 ± 0.000 χ^2/NDF : 38.3/33

All: 0.000 ± 0.000 χ^2/NDF : 61.6/64

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 5964299.9/15

Left Out: 0.004+/-0.000 χ^2/NDF :5315434.6/15

Right Out: 0.003+/-0.000 χ^2/NDF : 6713699.1/17

Left In: 0.004+/-0.000 χ^2/NDF :3876606.0/14

Left: 0.004+/-0.000 χ^2/NDF : 9213840.1/30

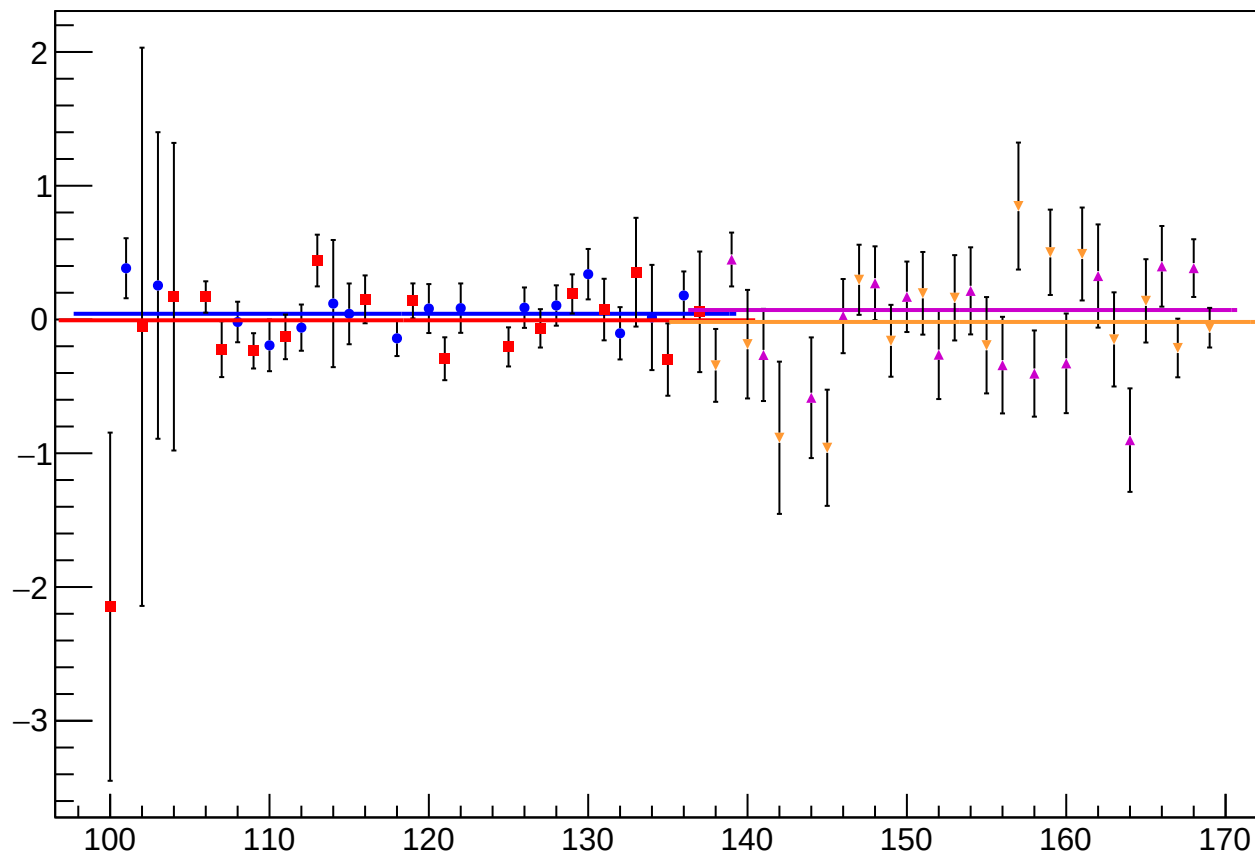
Right: 0.003+/-0.000 χ^2/NDF : 12731216.4/33

In: 0.004+/-0.000 χ^2/NDF :10405794.7/30

Out: 0.003+/-0.000 χ^2/NDF :12902810.6/33

All: 0.004+/-0.000 χ^2/NDF : 23397843.2/64

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043 $\pm$ 0.047 χ^2 /NDF: 10.3/15

Left Out: -0.018 $\pm$ 0.072 χ^2 /NDF:20.8/15

Right Out: -0.006 $\pm$ 0.043 χ^2 /NDF: 26.0/17

Left In: 0.071 $\pm$ 0.077 χ^2 /NDF:23.1/14

Left: 0.023 $\pm$ 0.053 χ^2 /NDF: 44.6/30

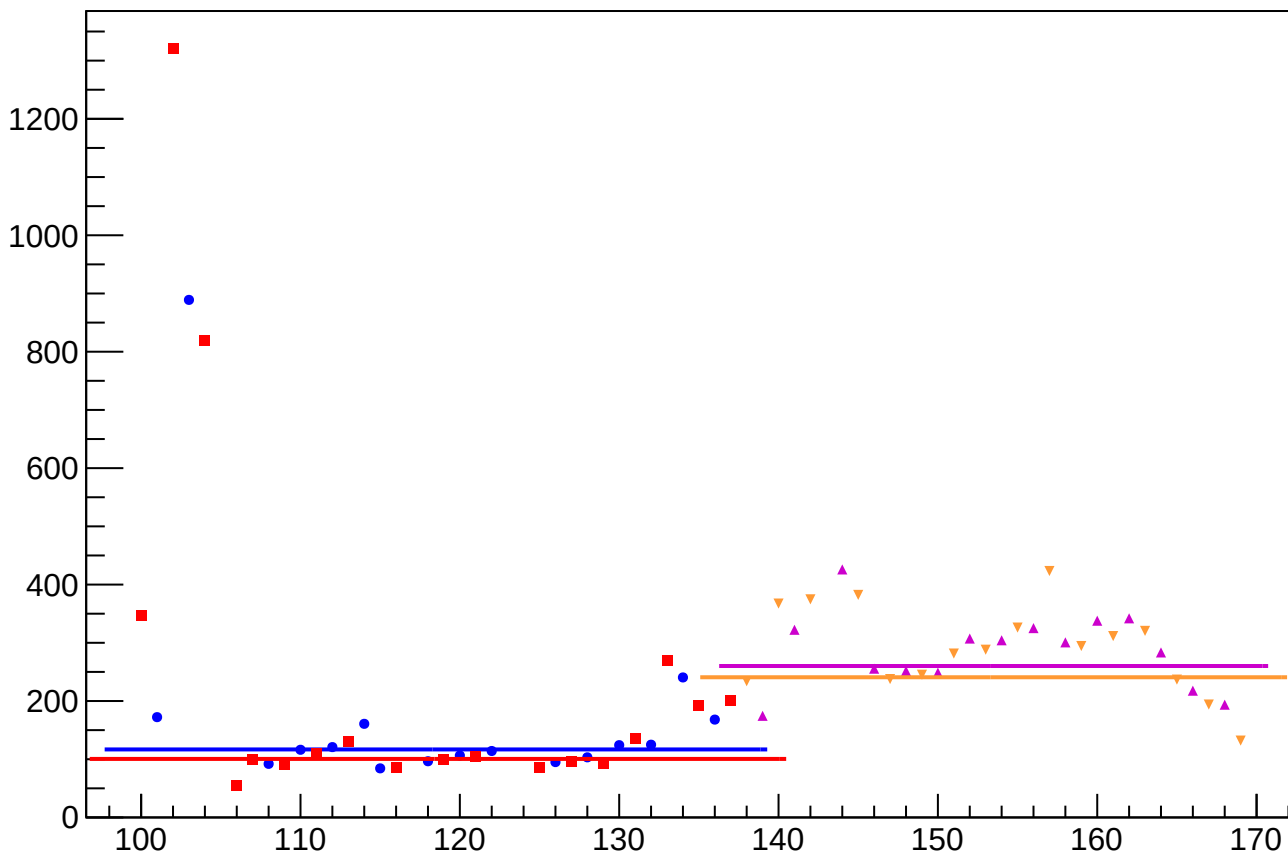
Right: 0.016 $\pm$ 0.032 χ^2 /NDF: 36.9/33

In: 0.050 $\pm$ 0.040 χ^2 /NDF:33.5/30

Out: -0.009 $\pm$ 0.037 χ^2 /NDF:46.8/33

All: 0.018 $\pm$ 0.027 χ^2 /NDF: 81.5/64

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 116.841 $\pm$ 0.034 χ^2 /NDF: 1620812.6/15

Left Out: 240.806 $\pm$ 0.051 χ^2 /NDF: 2418217.4/15

Right Out: 100.543 $\pm$ 0.031 χ^2 /NDF: 2664231.9/17

Left In: 260.146 $\pm$ 0.055 χ^2 /NDF: 1291277.5/14

Left: 249.825 $\pm$ 0.037 χ^2 /NDF: 3776354.3/30

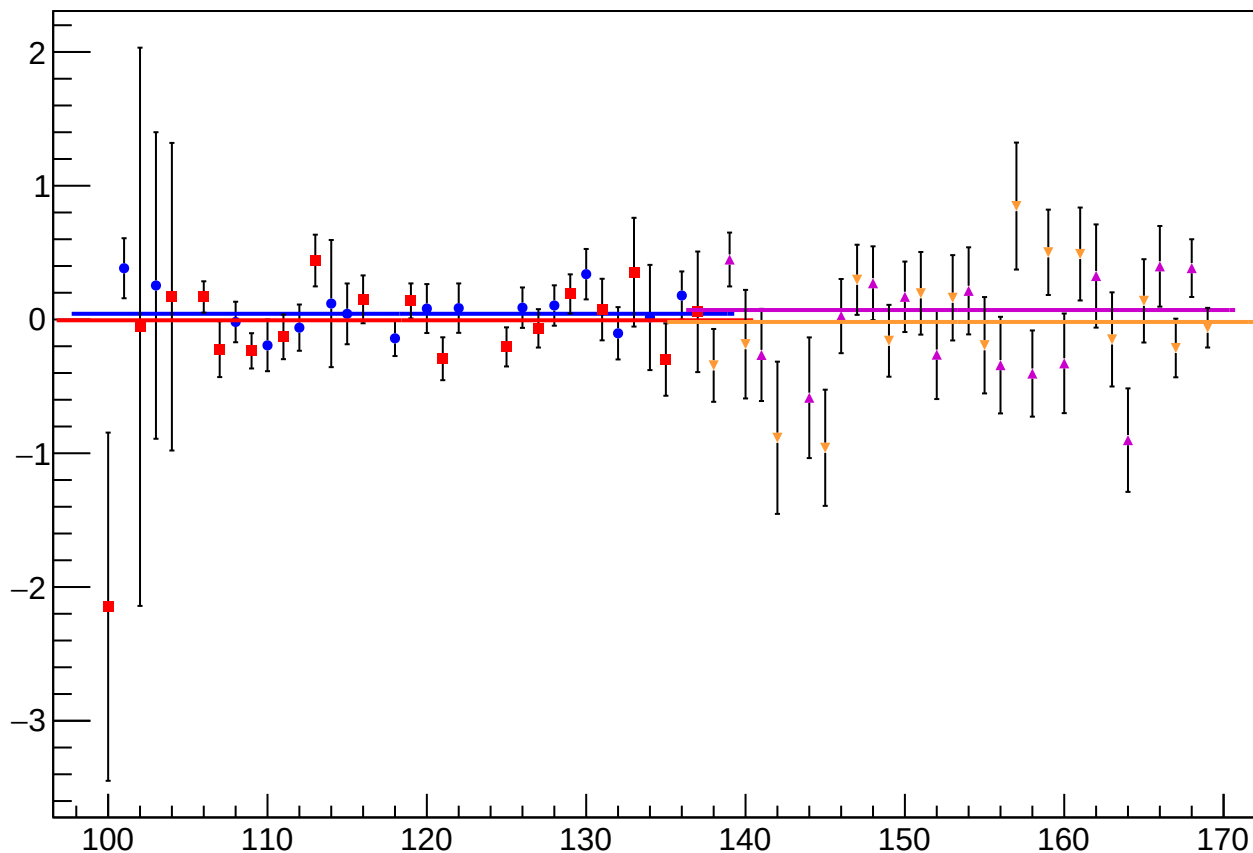
Right: 107.960 $\pm$ 0.023 χ^2 /NDF: 4413531.7/33

In: 156.099 $\pm$ 0.029 χ^2 /NDF: 7906239.0/30

Out: 137.724 $\pm$ 0.026 χ^2 /NDF: 10624882.1/33

All: 146.142 $\pm$ 0.019 χ^2 /NDF: 18754817.9/64

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.043 $\pm$ 0.047 χ^2 /NDF: 10.3/15

Left Out: -0.018 $\pm$ 0.072 χ^2 /NDF:20.8/15

Right Out: -0.006 $\pm$ 0.043 χ^2 /NDF: 26.0/17

Left In: 0.071 $\pm$ 0.077 χ^2 /NDF:23.1/14

Left: 0.023 $\pm$ 0.053 χ^2 /NDF: 44.6/30

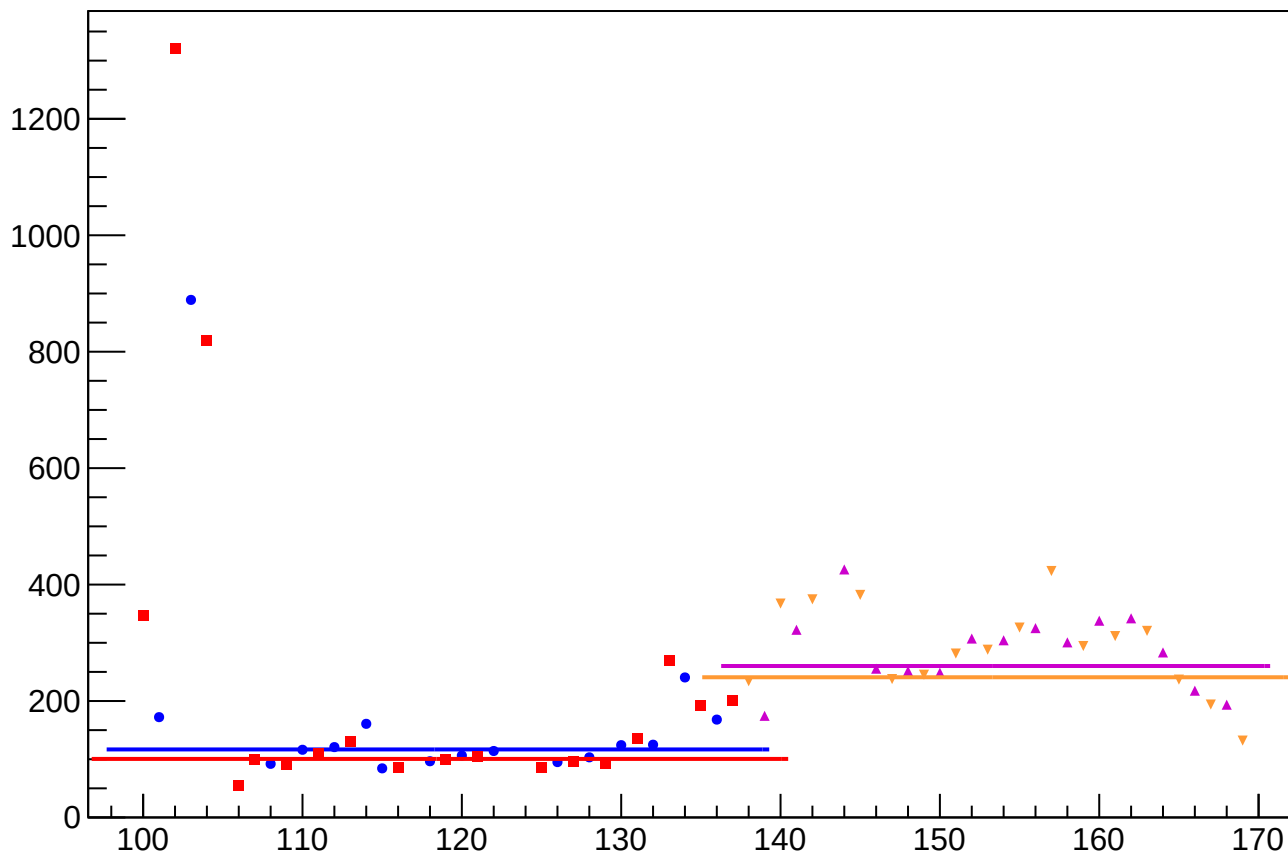
Right: 0.016 $\pm$ 0.032 χ^2 /NDF: 36.9/33

In: 0.050 $\pm$ 0.040 χ^2 /NDF:33.5/30

Out: -0.009 $\pm$ 0.037 χ^2 /NDF:46.8/33

All: 0.018 $\pm$ 0.027 χ^2 /NDF: 81.5/64

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 116.841 $\pm$ 0.034 χ^2/NDF : 1620812.6/15

Left Out: 240.806 $\pm$ 0.051 χ^2/NDF : 2418217.4/15

Right Out: 100.543 $\pm$ 0.031 χ^2/NDF : 2664231.9/17

Left In: 260.146 $\pm$ 0.055 χ^2/NDF : 1291277.5/14

Left: 249.825 $\pm$ 0.037 χ^2/NDF : 3776354.3/30

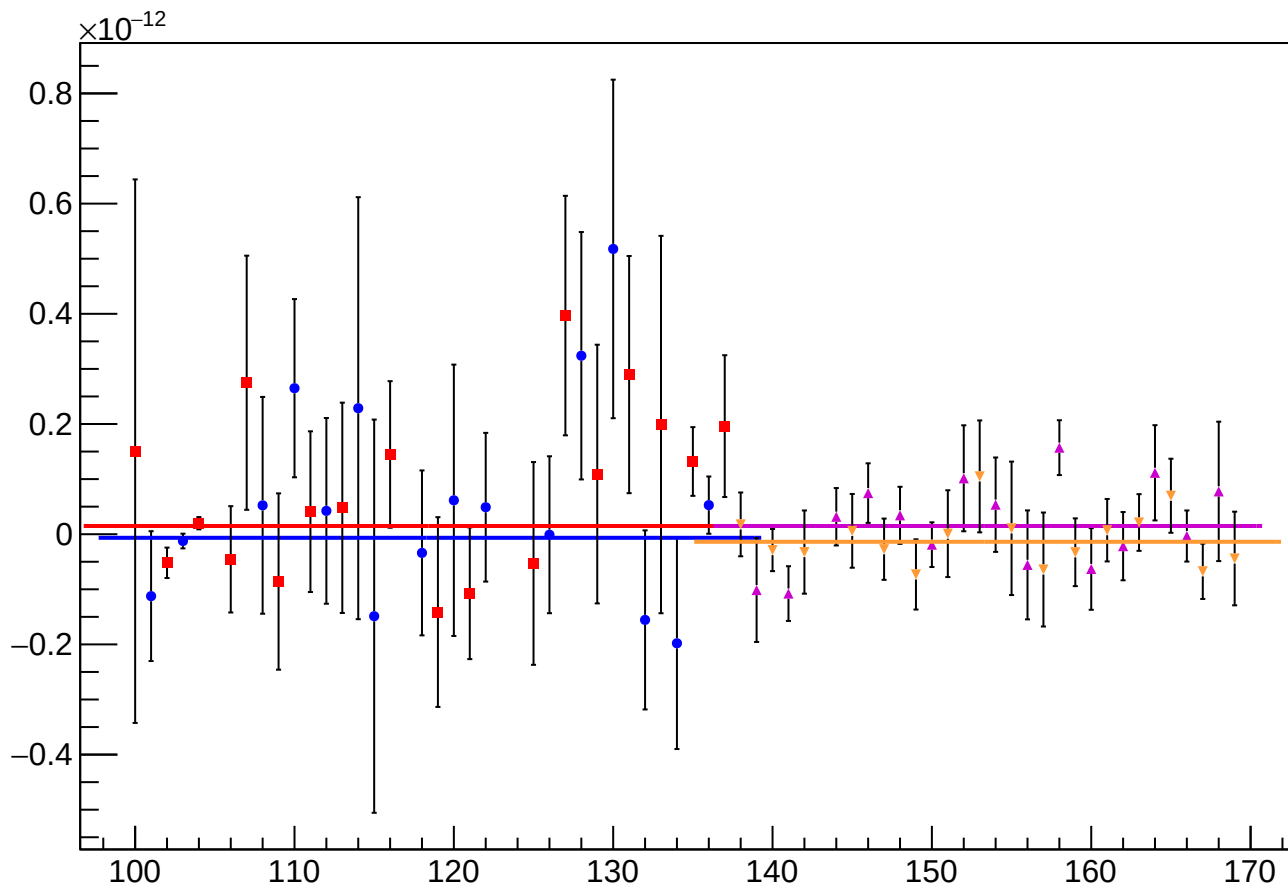
Right: 107.960 $\pm$ 0.023 χ^2/NDF : 4413531.7/33

In: 156.099 $\pm$ 0.029 χ^2/NDF : 7906239.0/30

Out: 137.724 $\pm$ 0.026 χ^2/NDF : 10624882.1/33

All: 146.142 $\pm$ 0.019 χ^2/NDF : 18754817.9/64

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 13.0/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 6.7/15

Right Out: 0.000 ± 0.000 χ^2/NDF : 21.9/17

Left In: 0.000 ± 0.000 χ^2/NDF : 22.6/14

Left: 0.000 ± 0.000 χ^2/NDF : 31.0/30

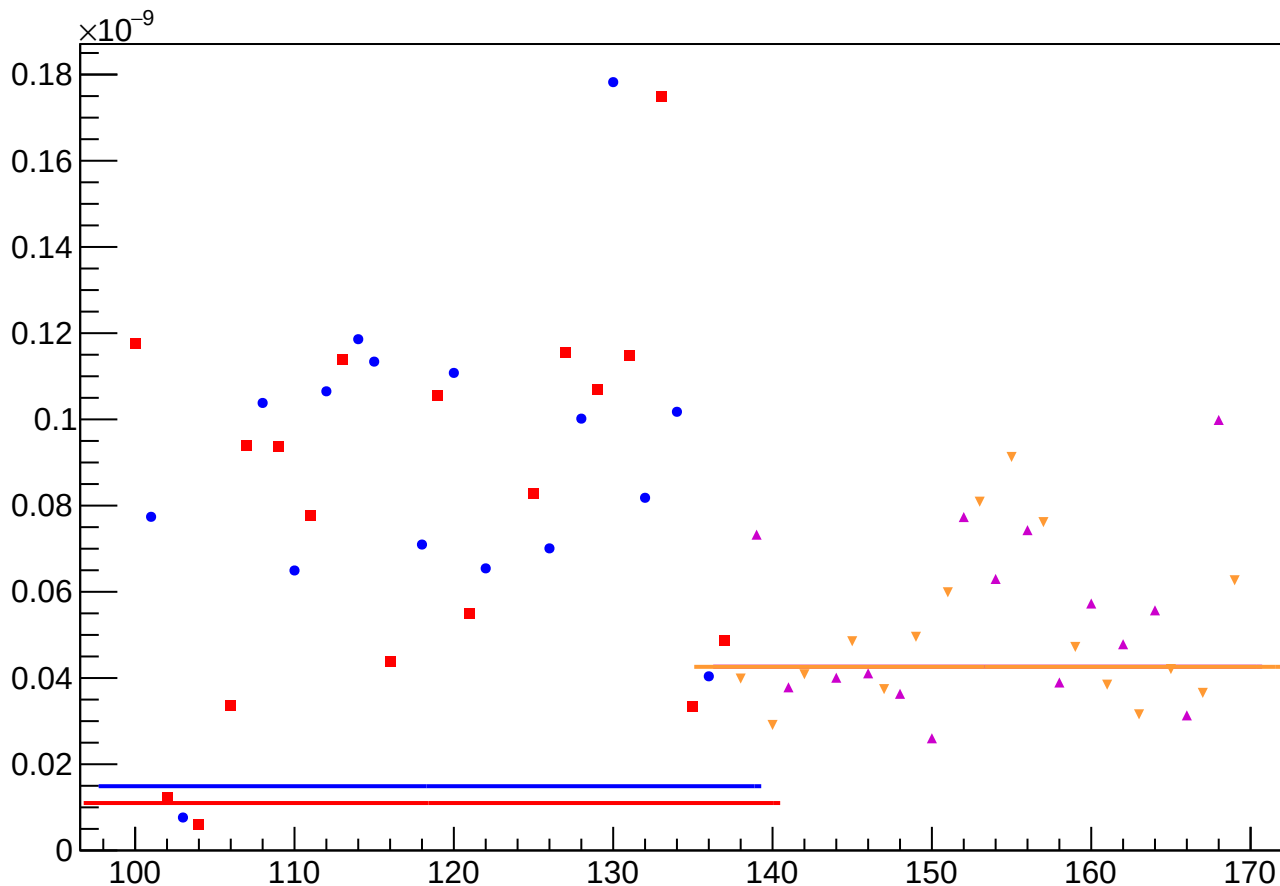
Right: 0.000 ± 0.000 χ^2/NDF : 36.7/33

In: 0.000 ± 0.000 χ^2/NDF : 36.7/30

Out: 0.000 ± 0.000 χ^2/NDF : 31.0/33

All: 0.000 ± 0.000 χ^2/NDF : 67.9/64

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 5893030.9/15

Left Out: 0.000+/-0.000 χ^2/NDF :1480989.3/15

Right Out: 0.000+/-0.000 χ^2/NDF : 5866969.2/17

Left In: 0.000+/-0.000 χ^2/NDF :1856507.2/14

Left: 0.000+/-0.000 χ^2/NDF : 3337501.7/30

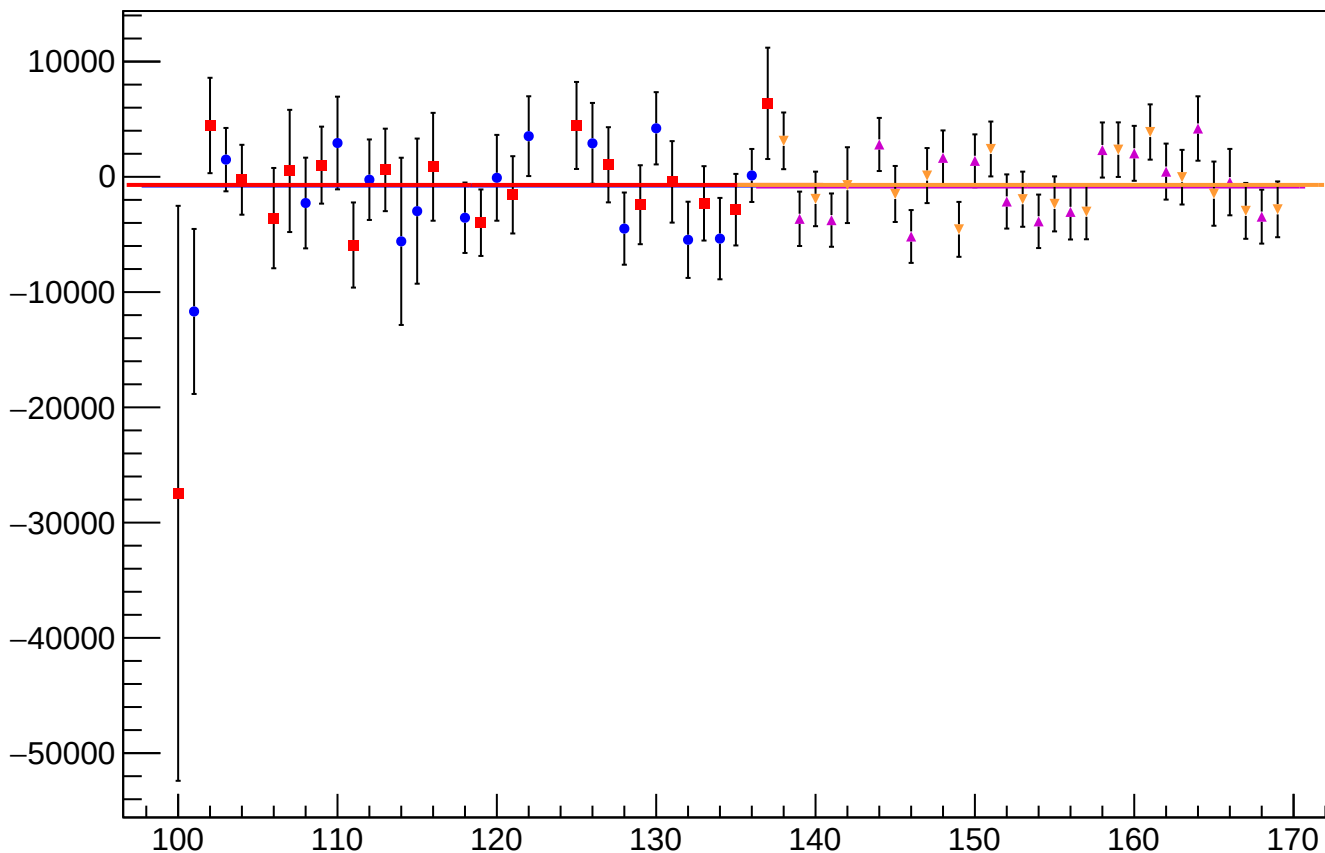
Right: 0.000+/-0.000 χ^2/NDF : 11880361.2/33

In: 0.000+/-0.000 χ^2/NDF :11578022.6/30

Out: 0.000+/-0.000 χ^2/NDF :13174552.9/33

All: 0.000+/-0.000 χ^2/NDF : 25137435.1/64

reg_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -754.291+/-872.652 χ^2/NDF : 15.9/15

Left Out: -701.393+/-613.230 χ^2/NDF : 16.0/15

Right Out: -702.198+/-868.647 χ^2/NDF : 12.4/17

Left In: -842.954+/-619.584 χ^2/NDF : 22.0/14

Left: -771.444+/-435.848 χ^2/NDF : 38.0/30

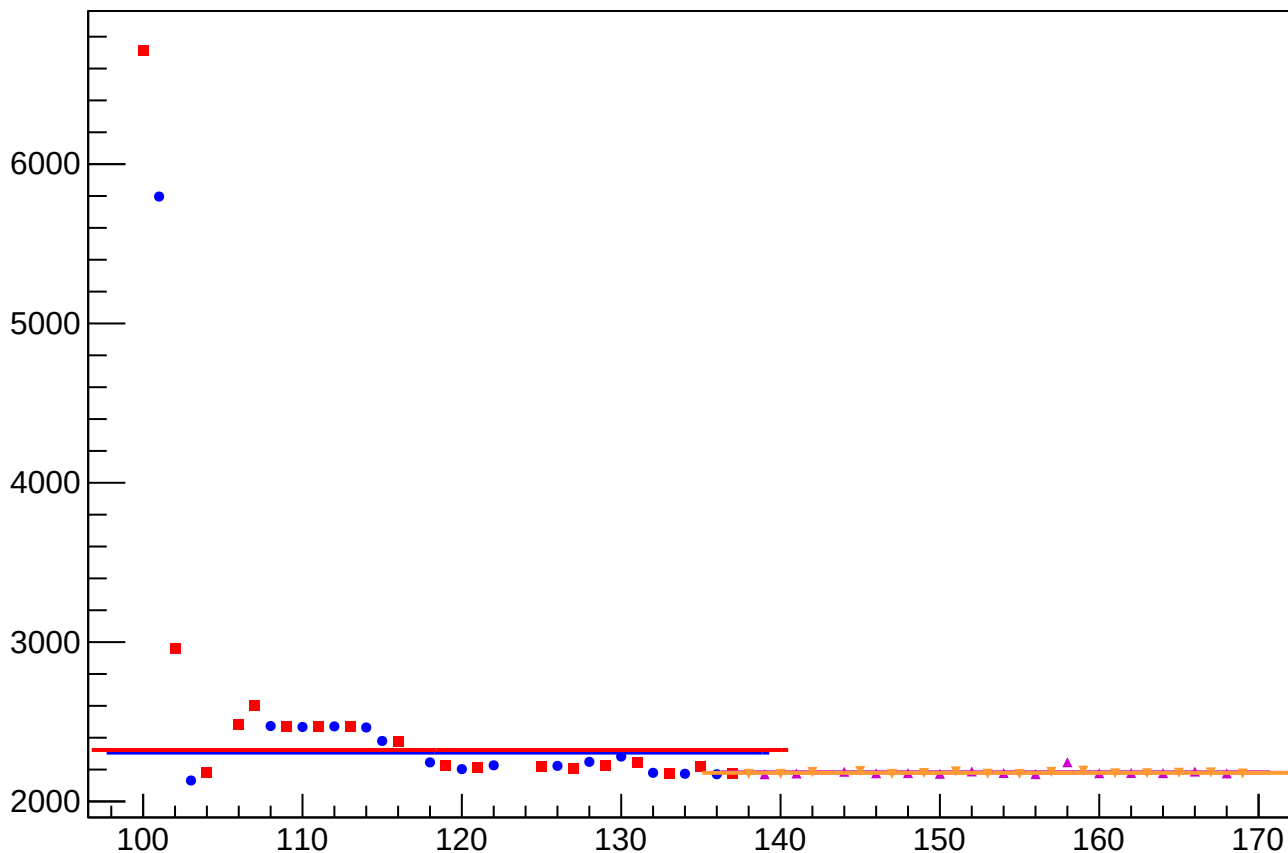
Right: -728.125+/-615.637 χ^2/NDF : 28.2/33

In: -813.238+/-505.198 χ^2/NDF : 37.9/30

Out: -701.661+/-500.971 χ^2/NDF : 28.4/33

All: -756.981+/-355.725 χ^2/NDF : 66.3/64

reg_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2306.643+/-0.617 χ^2/NDF : 514150.3/15

Left Out: 2179.500+/-0.434 χ^2/NDF : 253.3/15

Right Out: 2323.010+/-0.614 χ^2/NDF : 151787.1/17

Left In: 2182.877+/-0.438 χ^2/NDF : 1641.7/14

Left: 2181.171+/-0.308 χ^2/NDF : 1925.0/30

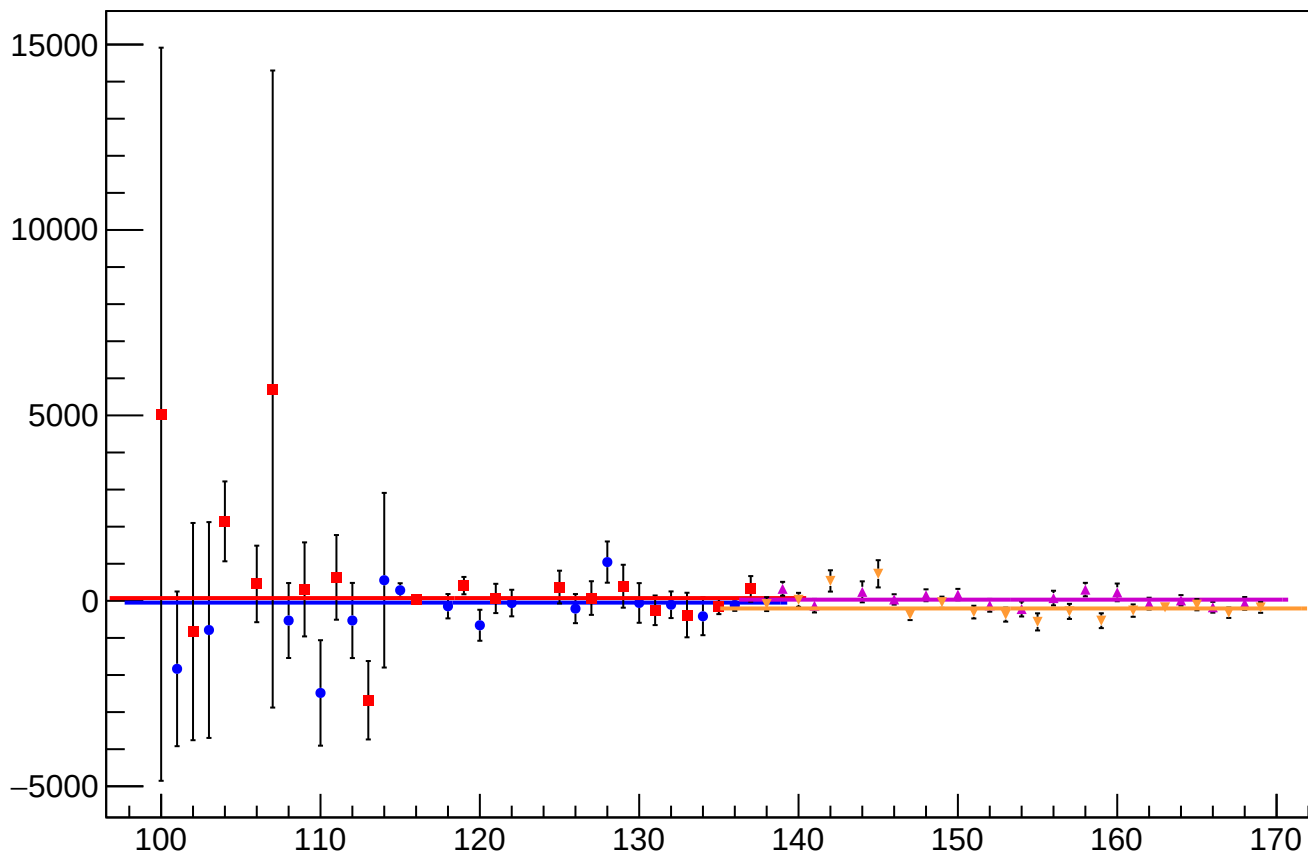
Right: 2314.864+/-0.435 χ^2/NDF : 666290.7/33

In: 2224.357+/-0.357 χ^2/NDF : 542539.0/30

Out: 2227.234+/-0.354 χ^2/NDF : 188472.9/33

All: 2225.808+/-0.252 χ^2/NDF : 731044.6/64

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -47.927+/-90.914 χ^2/NDF : 14.4/15

Left Out: -205.404+/-43.174 χ^2/NDF :25.3/15

Right Out: 74.200+/-82.384 χ^2/NDF : 17.6/17

Left In: 31.957+/-44.489 χ^2/NDF :13.2/14

Left: -90.284+/-30.983 χ^2/NDF : 53.2/30

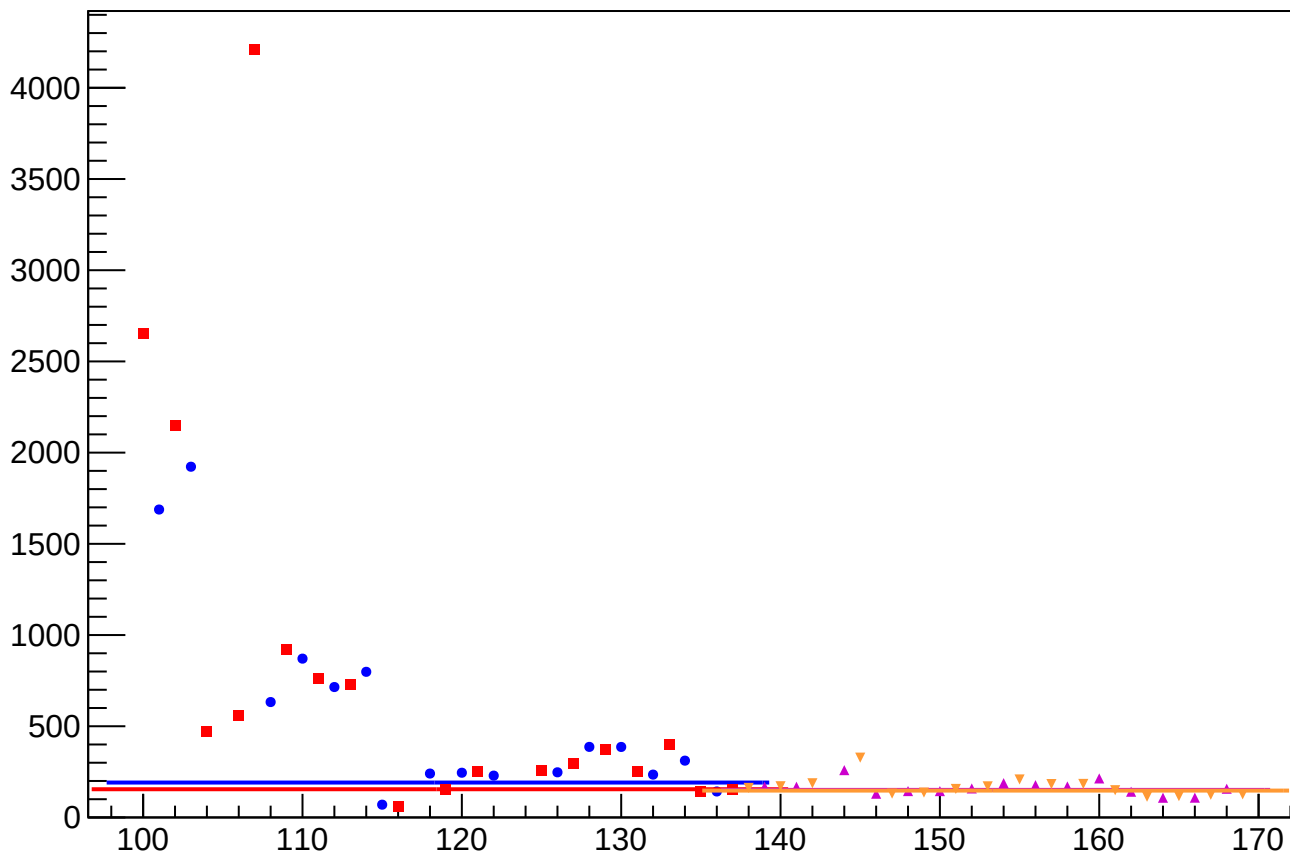
Right: 19.134+/-61.048 χ^2/NDF : 33.0/33

In: 16.523+/-39.961 χ^2/NDF :28.2/30

Out: -145.160+/-38.241 χ^2/NDF :52.0/33

All: -67.873+/-27.628 χ^2/NDF : 88.7/64

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 191.381+/-0.064 χ^2/NDF : 5064747.7/15

Left Out: 147.296+/-0.031 χ^2/NDF :1223308.0/15

Right Out: 154.677+/-0.058 χ^2/NDF : 6154285.9/17

Left In: 151.036+/-0.031 χ^2/NDF :1013116.9/14

Left: 149.110+/-0.022 χ^2/NDF : 2243704.4/30

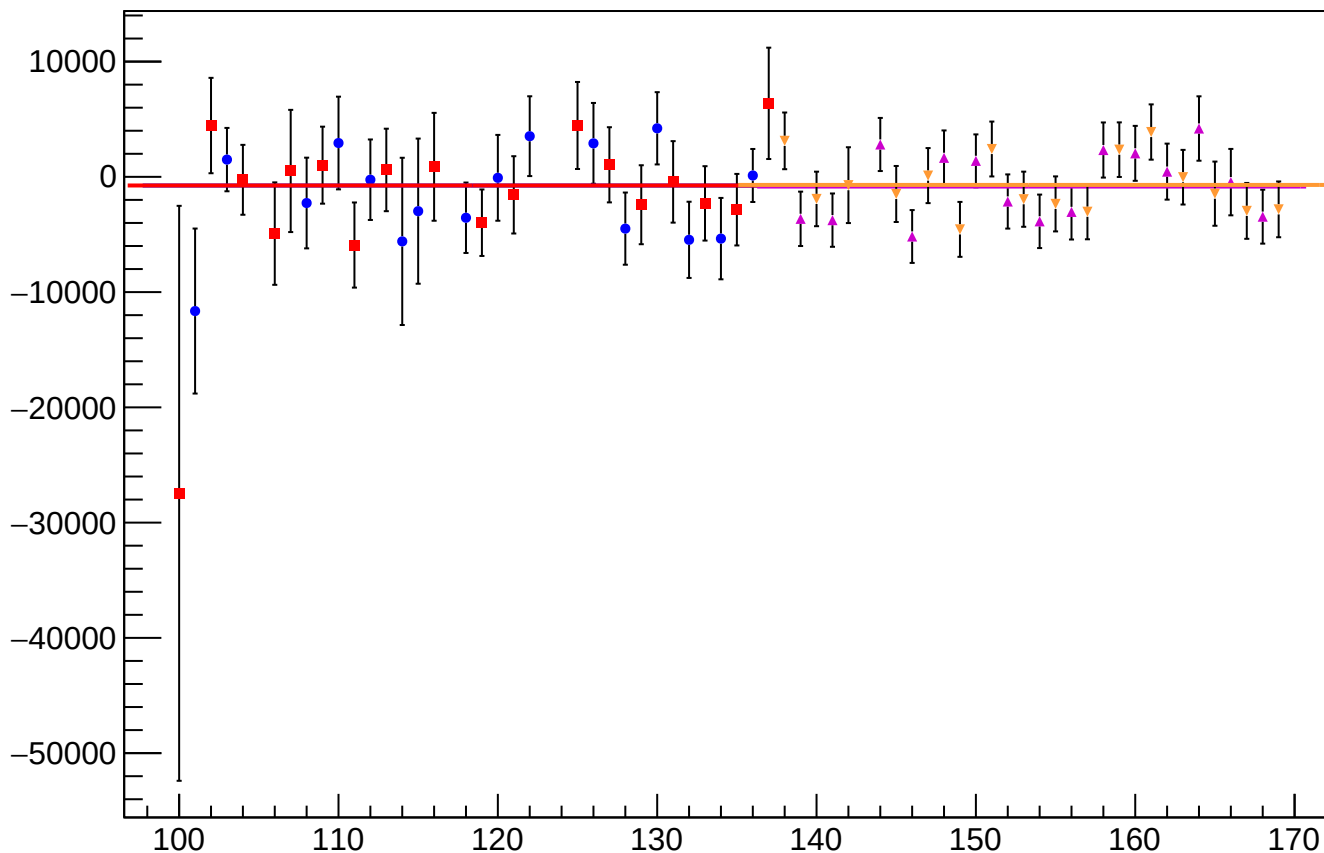
Right: 171.226+/-0.043 χ^2/NDF : 11398031.5/33

In: 158.831+/-0.028 χ^2/NDF :6395626.8/30

Out: 148.886+/-0.027 χ^2/NDF :7390187.8/33

All: 153.640+/-0.020 χ^2/NDF : 13850466.0/64

cor_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -753.322+/-872.653 χ^2/NDF : 15.9/15

Left Out: -701.387+/-613.230 χ^2/NDF : 16.0/15

Right Out: -749.316+/-869.366 χ^2/NDF : 12.8/17

Left In: -842.899+/-619.584 χ^2/NDF : 22.0/14

Left: -771.414+/-435.848 χ^2/NDF : 38.0/30

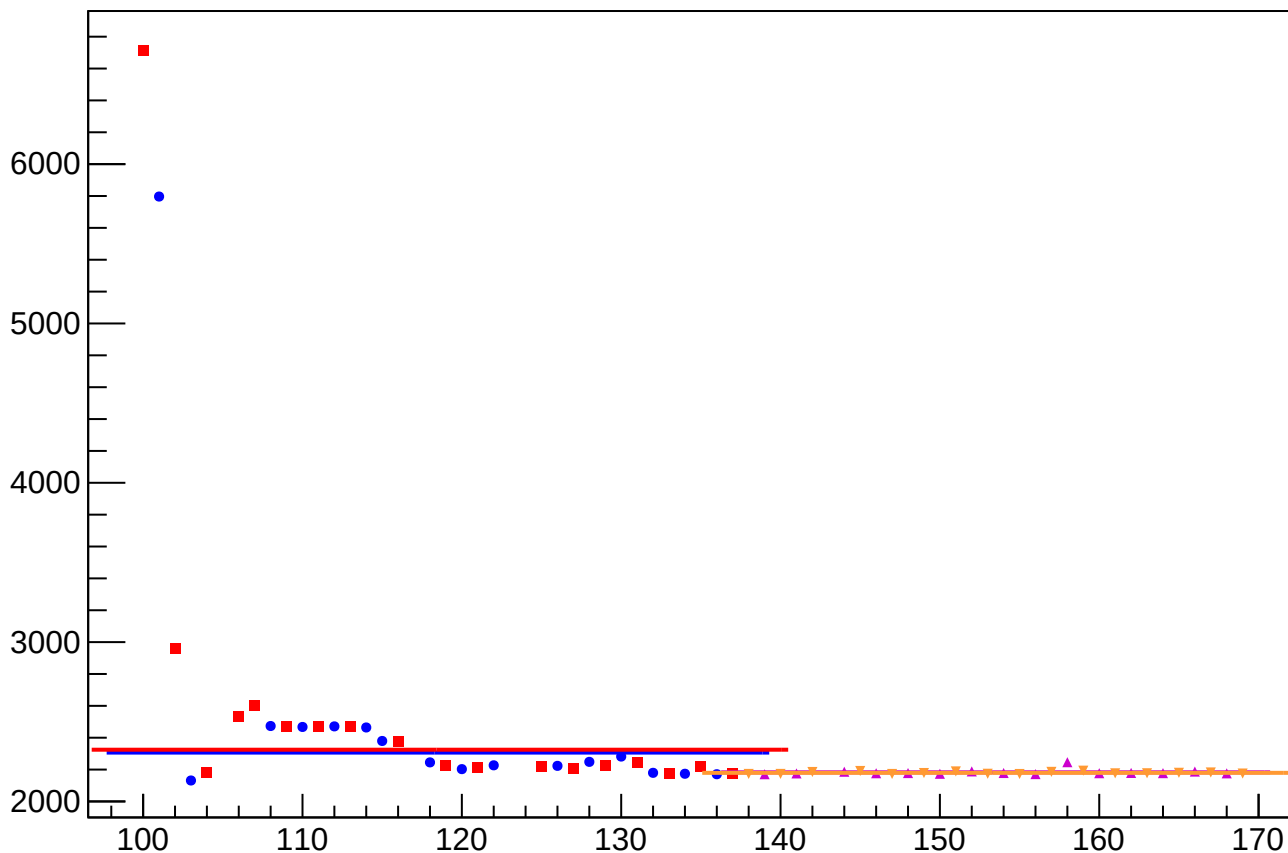
Right: -751.312+/-615.893 χ^2/NDF : 28.7/33

In: -812.877+/-505.198 χ^2/NDF : 37.9/30

Out: -717.312+/-501.109 χ^2/NDF : 28.9/33

All: -764.706+/-355.774 χ^2/NDF : 66.7/64

cor_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2306.643 $\pm$ 0.617 χ^2 /NDF: 514150.6/15

Left Out: 2179.500 $\pm$ 0.434 χ^2 /NDF:253.3/15

Right Out: 2324.685 $\pm$ 0.615 χ^2 /NDF: 153578.5/17

Left In: 2182.877 $\pm$ 0.438 χ^2 /NDF:1641.7/14

Left: 2181.171 $\pm$ 0.308 χ^2 /NDF: 1925.0/30

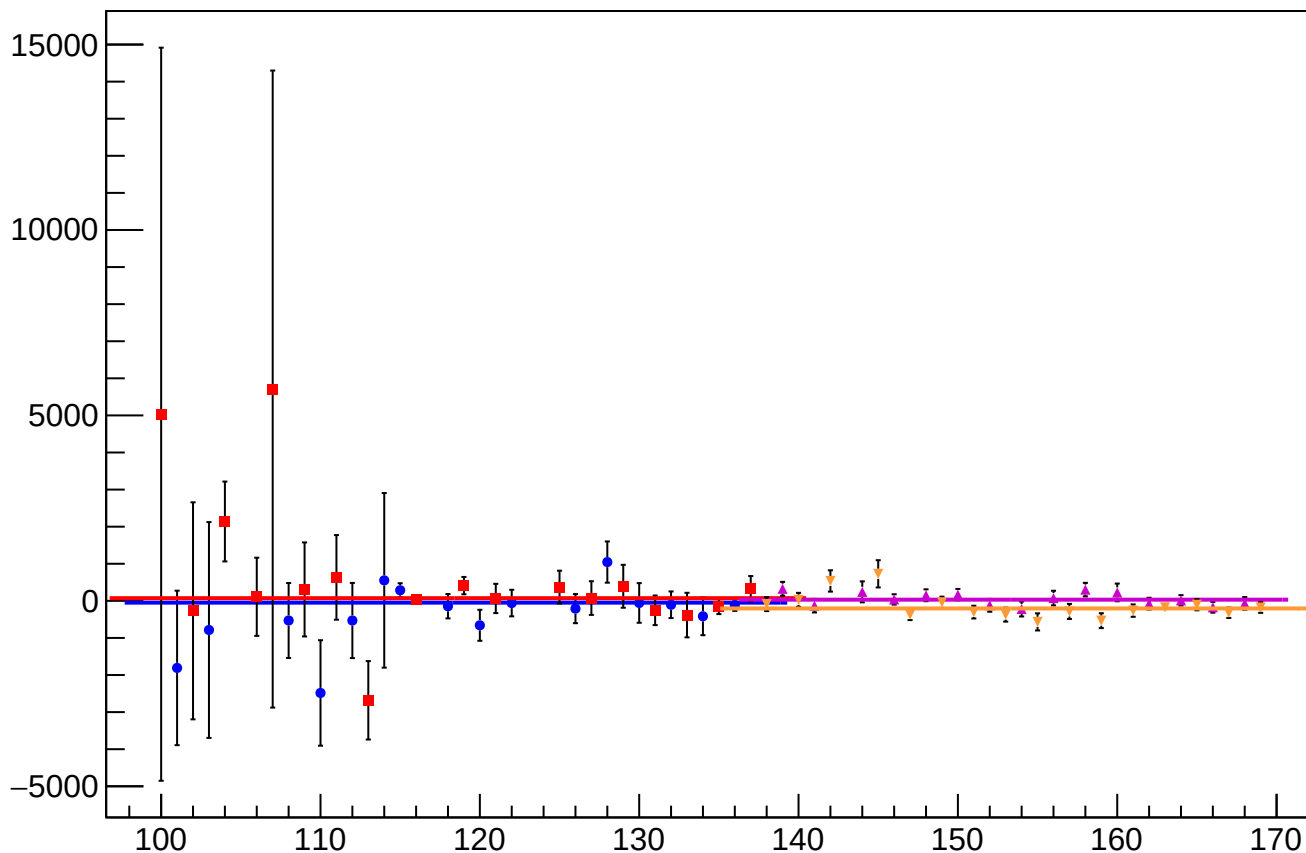
Right: 2315.698 $\pm$ 0.436 χ^2 /NDF: 668158.1/33

In: 2224.357 $\pm$ 0.357 χ^2 /NDF:542539.3/30

Out: 2227.737 $\pm$ 0.354 χ^2 /NDF:191078.2/33

All: 2226.061 $\pm$ 0.252 χ^2 /NDF: 733662.6/64

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -47.960+/-90.920 χ^2/NDF : 14.4/15

Left Out: -205.455+/-43.174 χ^2/NDF :25.3/15

Right Out: 72.198+/-82.322 χ^2/NDF : 17.4/17

Left In: 31.892+/-44.491 χ^2/NDF :13.2/14

Left: -90.348+/-30.984 χ^2/NDF : 53.1/30

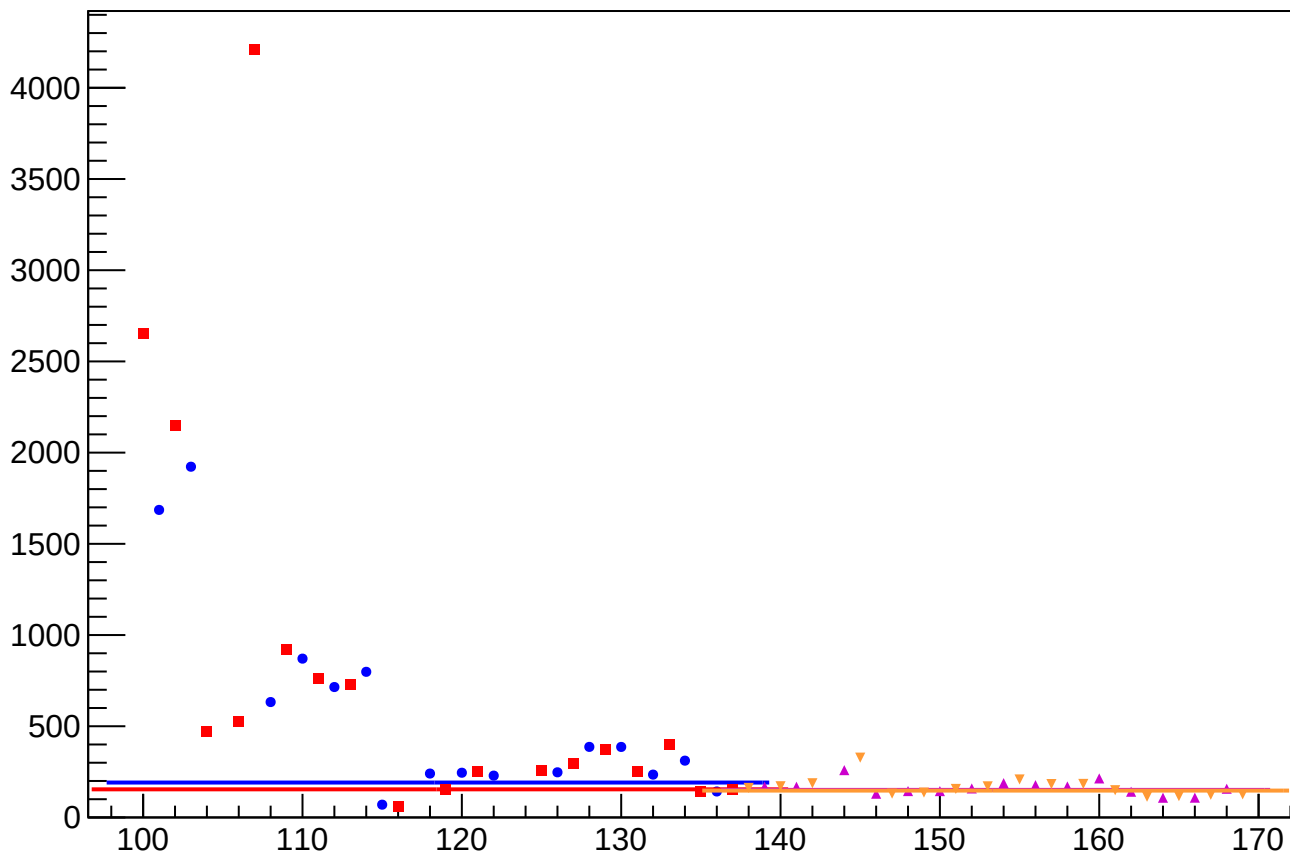
Right: 18.067+/-61.024 χ^2/NDF : 32.7/33

In: 16.465+/-39.963 χ^2/NDF :28.2/30

Out: -145.561+/-38.235 χ^2/NDF :51.6/33

All: -68.128+/-27.627 χ^2/NDF : 88.4/64

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 191.405+/-0.064 χ^2/NDF : 5063603.7/15

Left Out: 147.295+/-0.031 χ^2/NDF :1223625.1/15

Right Out: 154.121+/-0.058 χ^2/NDF : 6108665.0/17

Left In: 151.045+/-0.031 χ^2/NDF :1013464.9/14

Left: 149.113+/-0.022 χ^2/NDF : 2244408.2/30

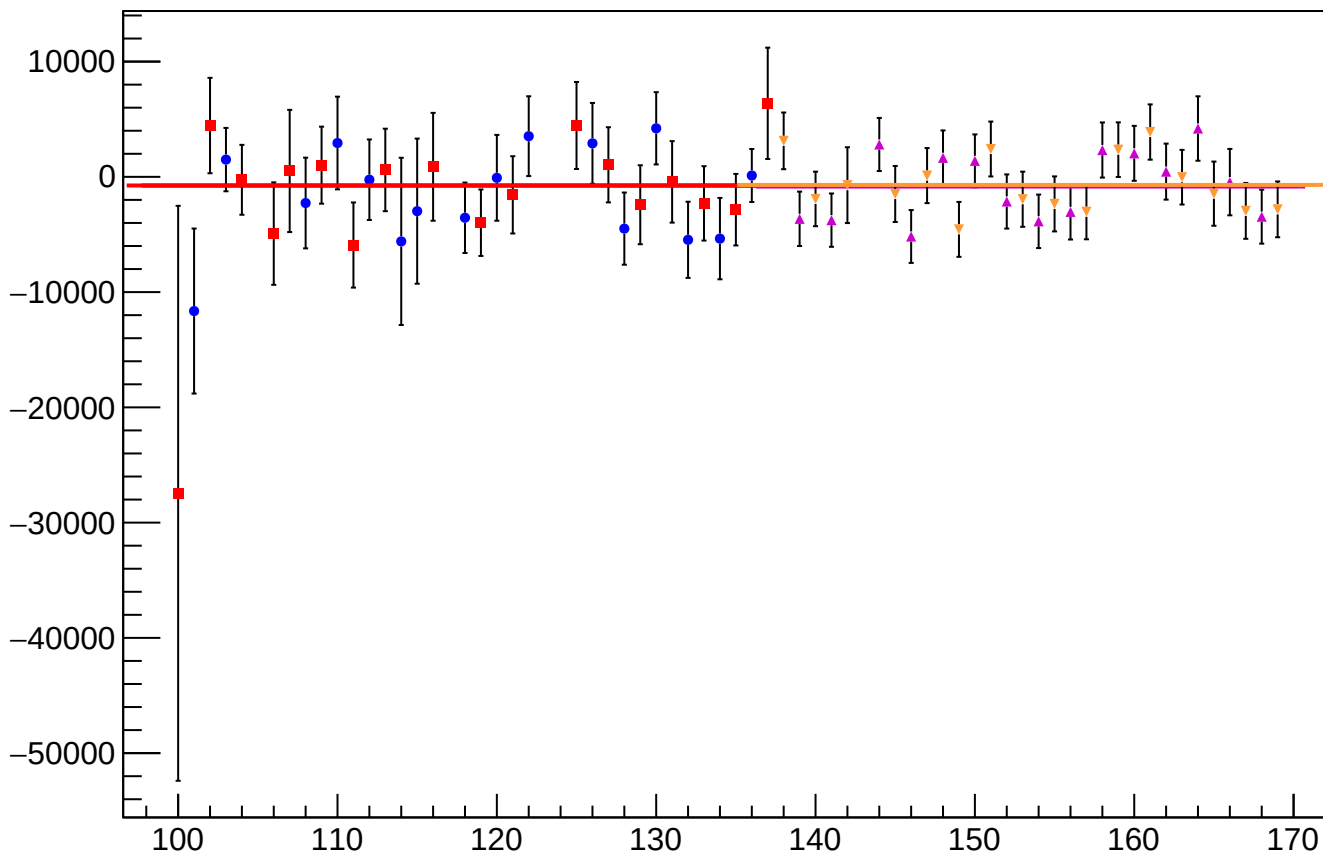
Right: 170.917+/-0.043 χ^2/NDF : 11357079.8/33

In: 158.842+/-0.028 χ^2/NDF :6395039.8/30

Out: 148.767+/-0.027 χ^2/NDF :7343076.4/33

All: 153.582+/-0.020 χ^2/NDF : 13804483.3/64

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -753.322+/-872.653 χ^2/NDF : 15.9/15

Left Out: -701.387+/-613.230 χ^2/NDF : 16.0/15

Right Out: -749.316+/-869.366 χ^2/NDF : 12.8/17

Left In: -842.899+/-619.584 χ^2/NDF : 22.0/14

Left: -771.414+/-435.848 χ^2/NDF : 38.0/30

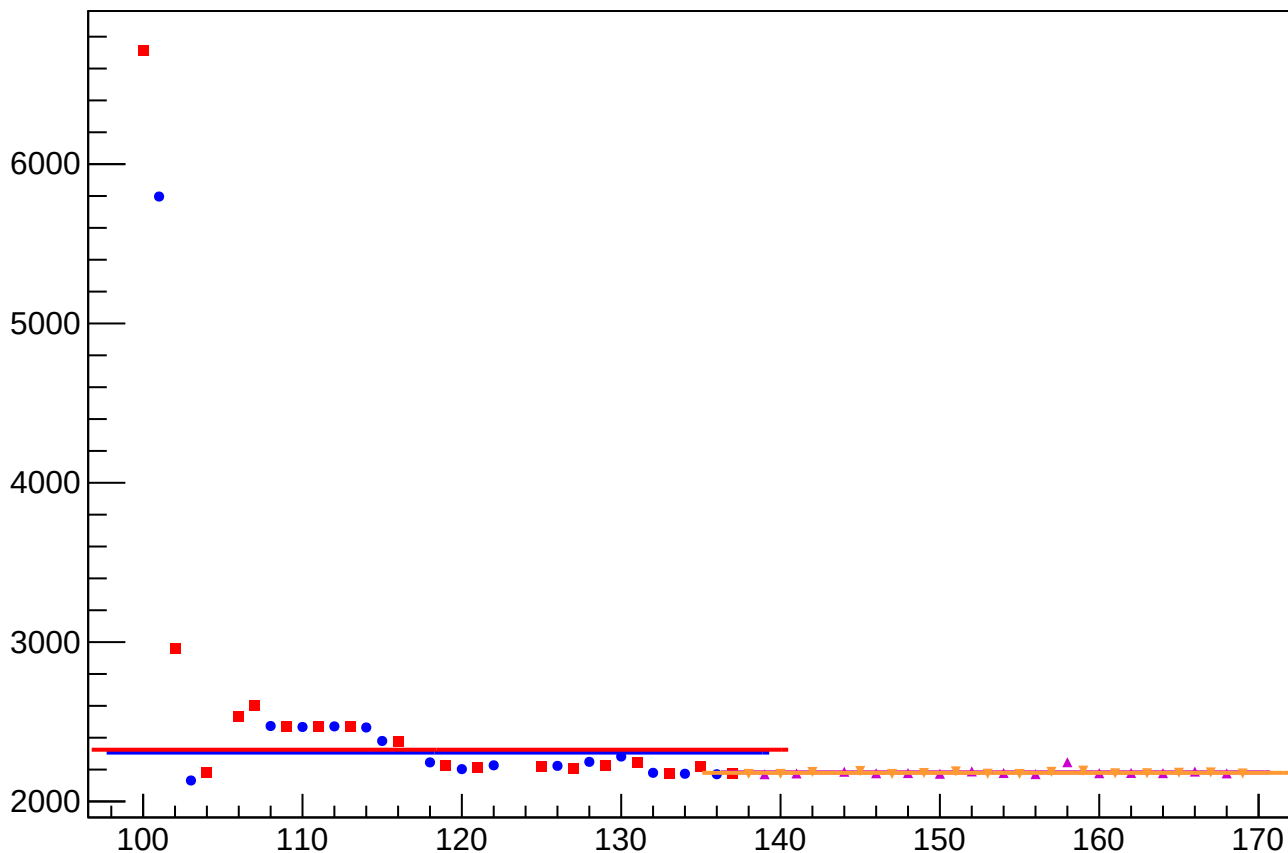
Right: -751.312+/-615.893 χ^2/NDF : 28.7/33

In: -812.877+/-505.198 χ^2/NDF : 37.9/30

Out: -717.312+/-501.109 χ^2/NDF : 28.9/33

All: -764.706+/-355.774 χ^2/NDF : 66.7/64

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2306.643+/-0.617 χ^2/NDF : 514150.6/15

Left Out: 2179.500+/-0.434 χ^2/NDF :253.3/15

Right Out: 2324.685+/-0.615 χ^2/NDF : 153578.5/17

Left In: 2182.877+/-0.438 χ^2/NDF :1641.7/14

Left: 2181.171+/-0.308 χ^2/NDF : 1925.0/30

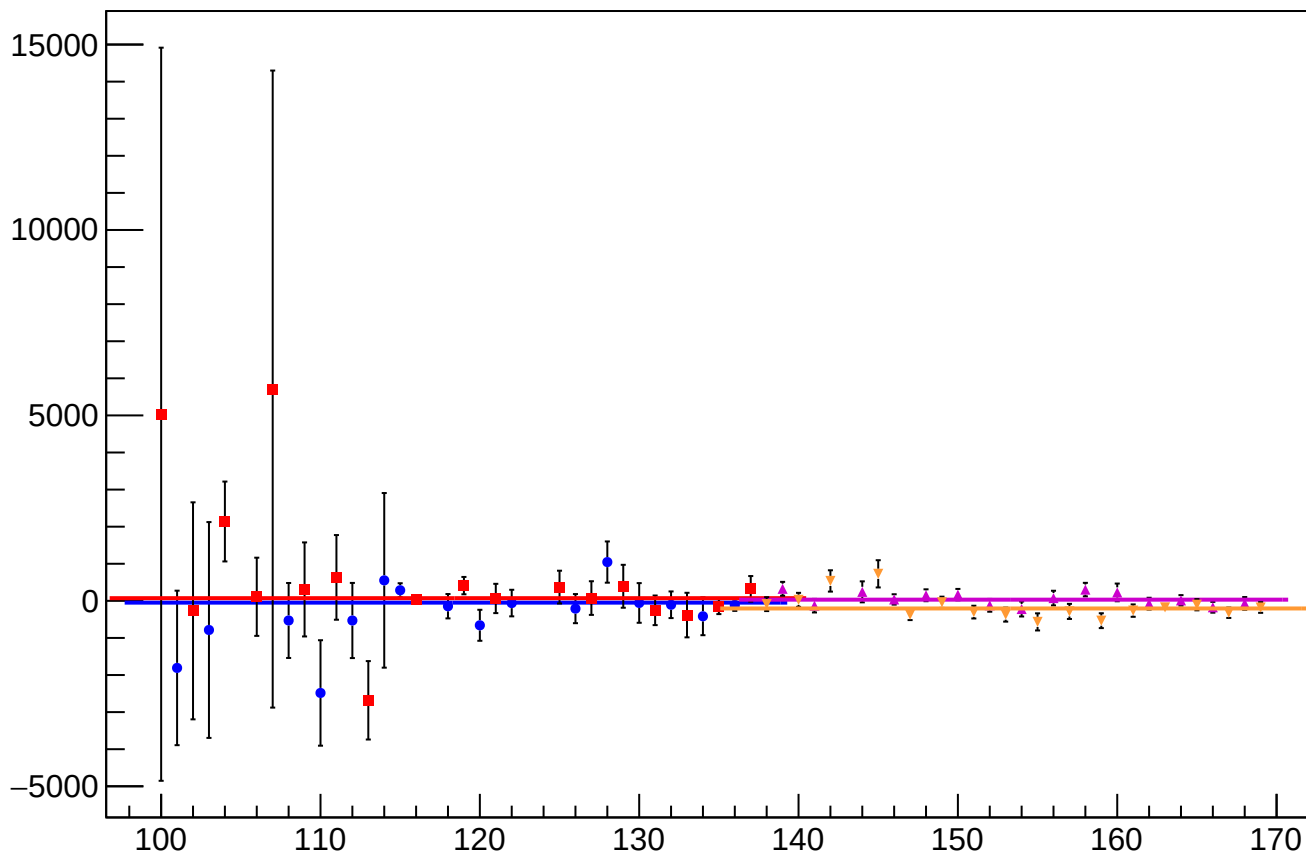
Right: 2315.698+/-0.436 χ^2/NDF : 668158.1/33

In: 2224.357+/-0.357 χ^2/NDF :542539.3/30

Out: 2227.737+/-0.354 χ^2/NDF :191078.2/33

All: 2226.061+/-0.252 χ^2/NDF : 733662.6/64

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -47.960 ± 90.920 χ^2/NDF : 14.4/15

Left Out: -205.455 ± 43.174 χ^2/NDF : 25.3/15

Right Out: 72.198 ± 82.322 χ^2/NDF : 17.4/17

Left In: 31.892 ± 44.491 χ^2/NDF : 13.2/14

Left: -90.348 ± 30.984 χ^2/NDF : 53.1/30

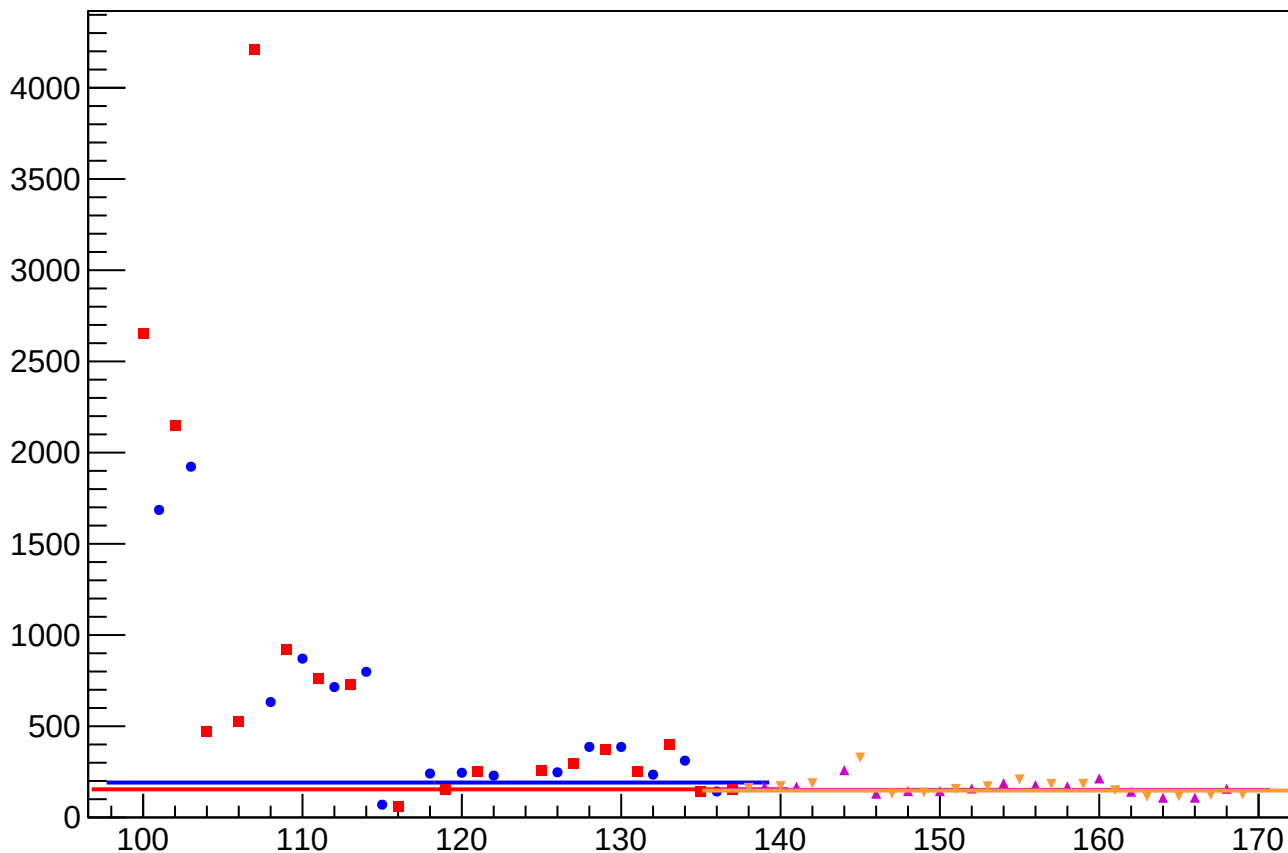
Right: 18.067 ± 61.024 χ^2/NDF : 32.7/33

In: 16.465 ± 39.963 χ^2/NDF : 28.2/30

Out: -145.561 ± 38.235 χ^2/NDF : 51.6/33

All: -68.128 ± 27.627 χ^2/NDF : 88.4/64

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 191.405 $\pm$ 0.064 χ^2/NDF : 5063603.7/15

Left Out: 147.295 $\pm$ 0.031 χ^2/NDF :1223625.1/15

Right Out: 154.121 $\pm$ 0.058 χ^2/NDF : 6108665.0/17

Left In: 151.045 $\pm$ 0.031 χ^2/NDF :1013464.9/14

Left: 149.113 $\pm$ 0.022 χ^2/NDF : 2244408.2/30

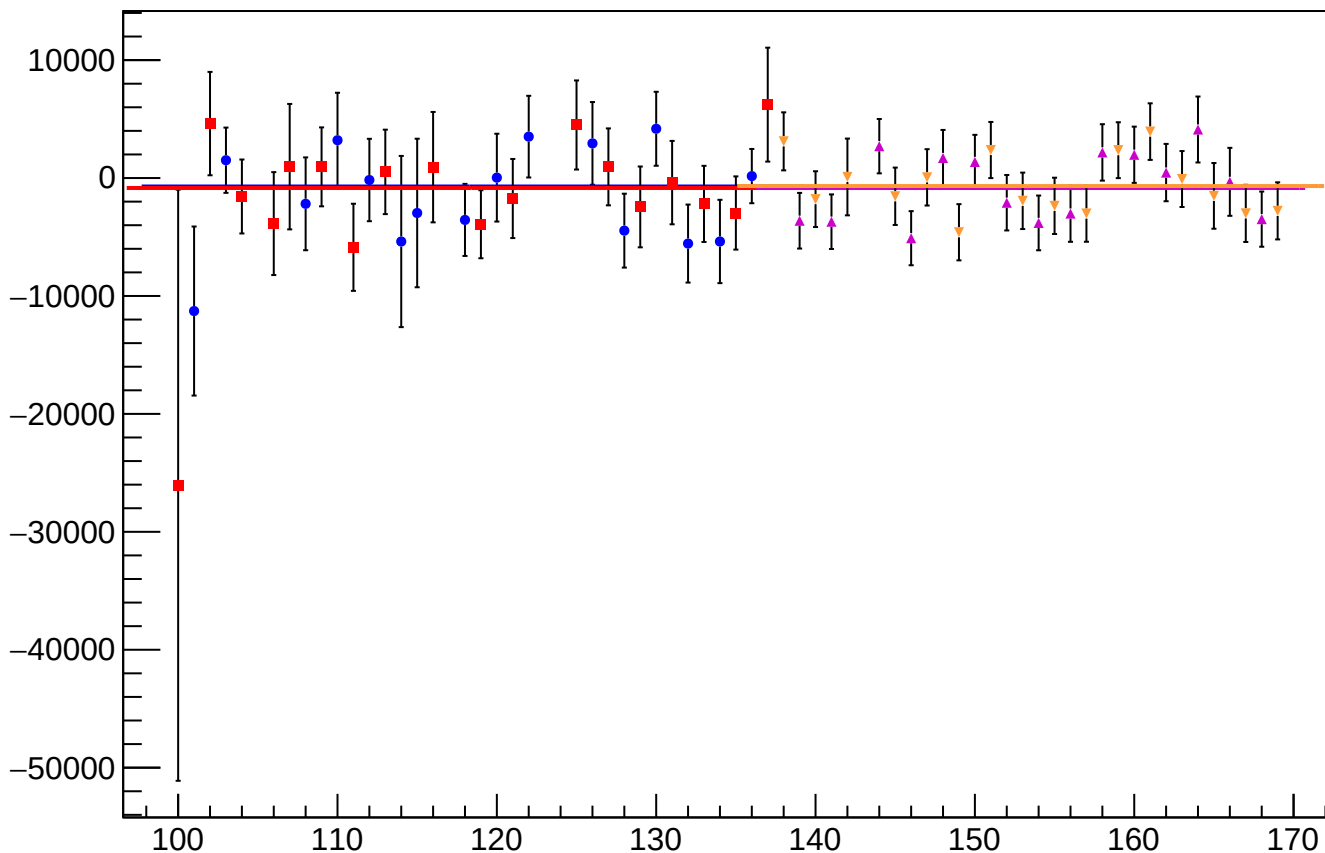
Right: 170.917 $\pm$ 0.043 χ^2/NDF : 11357079.8/33

In: 158.842 $\pm$ 0.028 χ^2/NDF :6395039.8/30

Out: 148.767 $\pm$ 0.027 χ^2/NDF :7343076.4/33

All: 153.582 $\pm$ 0.020 χ^2/NDF : 13804483.3/64

dit_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -717.136+/-873.539 χ^2/NDF : 15.8/15

Left Out: -679.260+/-613.205 χ^2/NDF : 16.1/15

Right Out: -842.157+/-873.586 χ^2/NDF : 12.2/17

Left In: -842.026+/-619.808 χ^2/NDF : 21.3/14

Left: -759.772+/-435.917 χ^2/NDF : 37.4/30

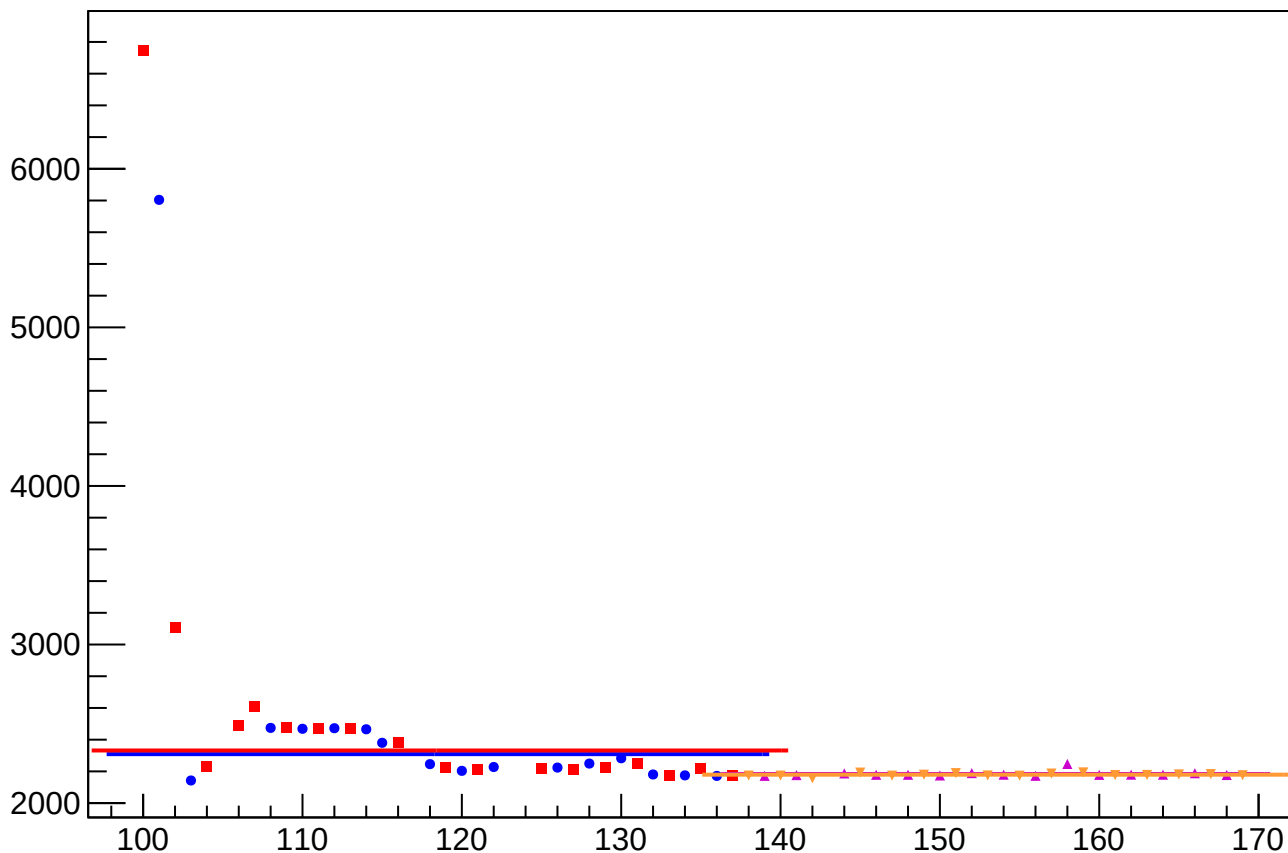
Right: -779.643+/-617.702 χ^2/NDF : 28.0/33

In: -800.205+/-505.491 χ^2/NDF : 37.1/30

Out: -733.030+/-501.899 χ^2/NDF : 28.3/33

All: -766.378+/-356.160 χ^2/NDF : 65.4/64

dit_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2308.739+/-0.618 χ^2/NDF : 513742.2/15

Left Out: 2179.207+/-0.434 χ^2/NDF : 353.3/15

Right Out: 2331.849+/-0.618 χ^2/NDF : 167321.7/17

Left In: 2183.665+/-0.438 χ^2/NDF : 1633.7/14

Left: 2181.412+/-0.308 χ^2/NDF : 2039.2/30

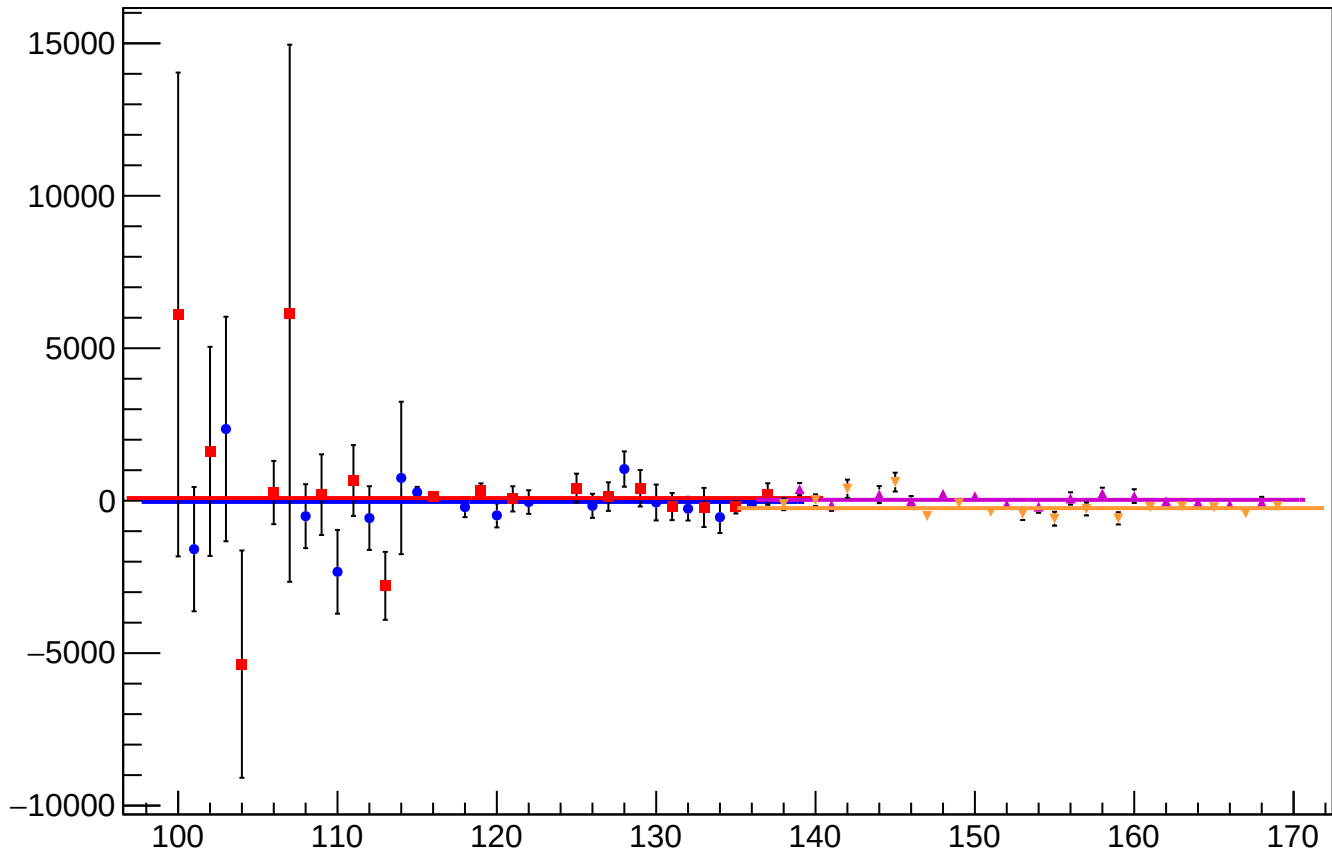
Right: 2320.294+/-0.437 χ^2/NDF : 681763.7/33

In: 2225.547+/-0.357 χ^2/NDF : 542647.9/30

Out: 2229.591+/-0.355 χ^2/NDF : 208581.6/33

All: 2227.584+/-0.252 χ^2/NDF : 751293.9/64

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -40.119 $\pm$ 92.409 χ^2 /NDF: 14.1/15

Left Out: -244.303 $\pm$ 43.423 χ^2 /NDF: 26.7/15

Right Out: 86.379 $\pm$ 86.088 χ^2 /NDF: 15.0/17

Left In: 28.545 $\pm$ 45.277 χ^2 /NDF: 11.9/14

Left: -113.578 $\pm$ 31.340 χ^2 /NDF: 57.5/30

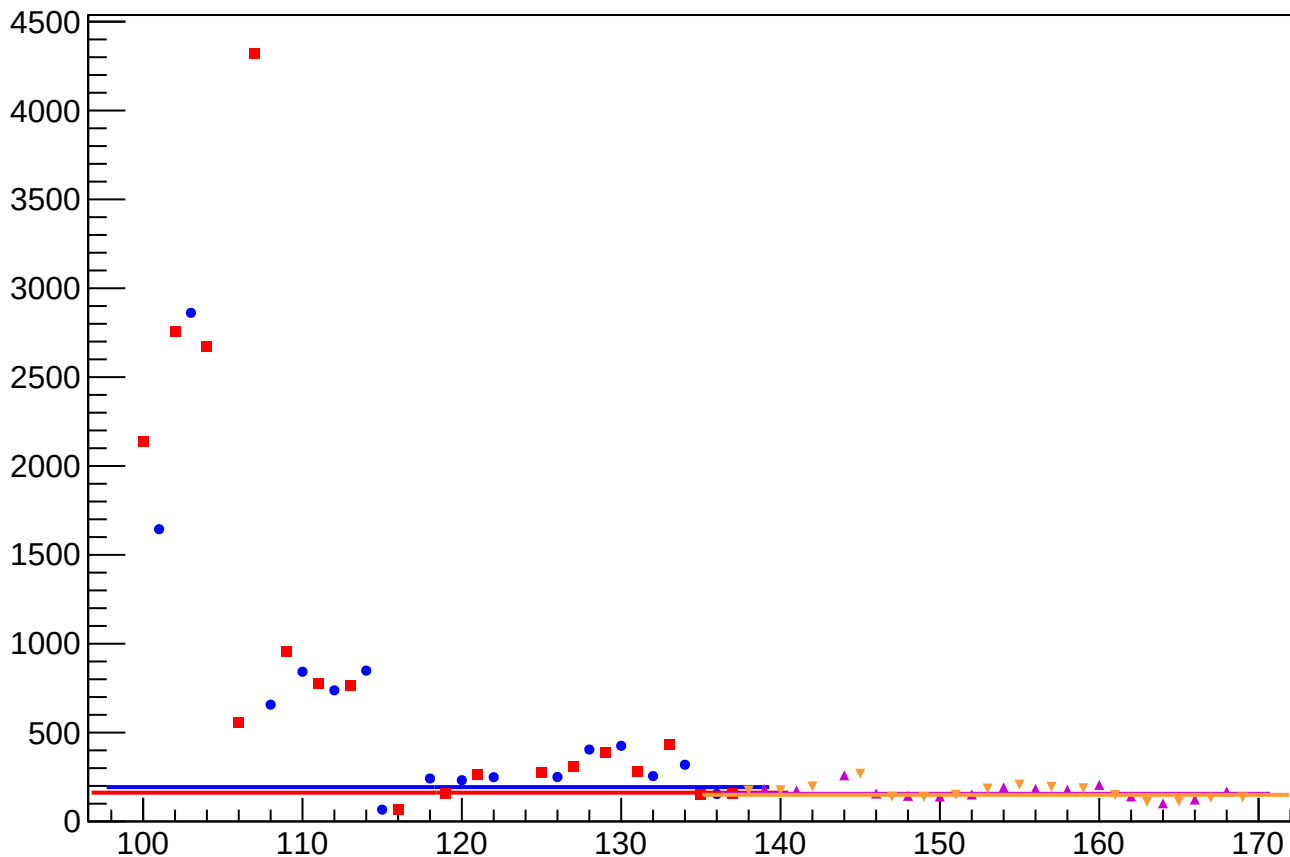
Right: 27.604 $\pm$ 62.990 χ^2 /NDF: 30.0/33

In: 15.253 $\pm$ 40.659 χ^2 /NDF: 26.4/30

Out: -177.234 $\pm$ 38.770 χ^2 /NDF: 53.4/33

All: -85.564 $\pm$ 28.059 χ^2 /NDF: 91.6/64

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 193.255+/-0.065 χ^2/NDF : 5617847.0/15

Left Out: 149.648+/-0.031 χ^2/NDF : 1171988.9/15

Right Out: 162.114+/-0.061 χ^2/NDF : 7070489.1/17

Left In: 155.480+/-0.032 χ^2/NDF : 1025318.5/14

Left: 152.443+/-0.022 χ^2/NDF : 2214593.0/30

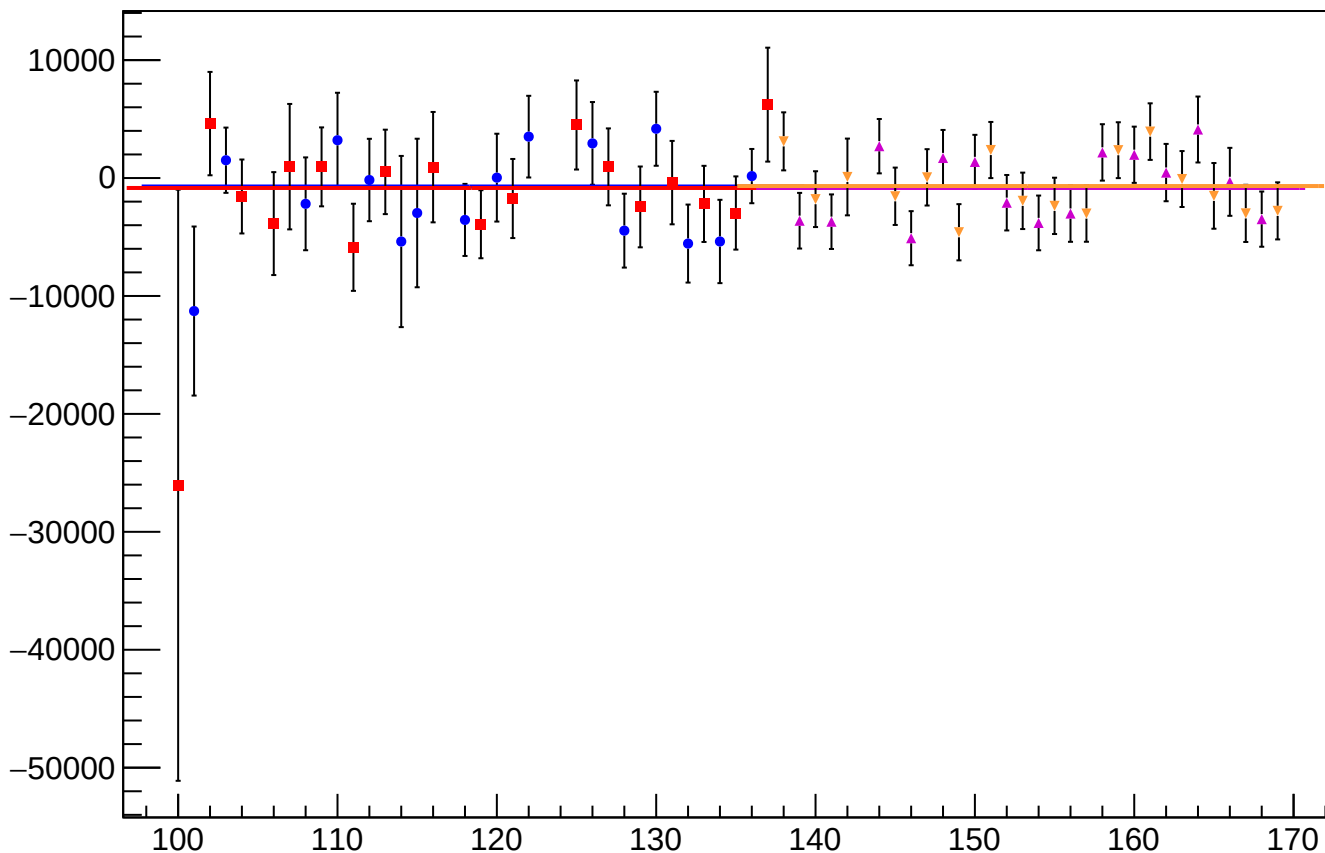
Right: 176.583+/-0.045 χ^2/NDF : 12809933.8/33

In: 162.793+/-0.029 χ^2/NDF : 6912667.8/30

Out: 152.177+/-0.027 χ^2/NDF : 8275907.8/33

All: 157.233+/-0.020 χ^2/NDF : 15259996.0/64

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -717.137 $\pm$ 873.539 χ^2 /NDF: 15.8/15

Left Out: -679.262 $\pm$ 613.205 χ^2 /NDF:16.1/15

Right Out: -842.159 $\pm$ 873.586 χ^2 /NDF: 12.2/17

Left In: -842.025 $\pm$ 619.808 χ^2 /NDF:21.3/14

Left: -759.772 $\pm$ 435.917 χ^2 /NDF: 37.4/30

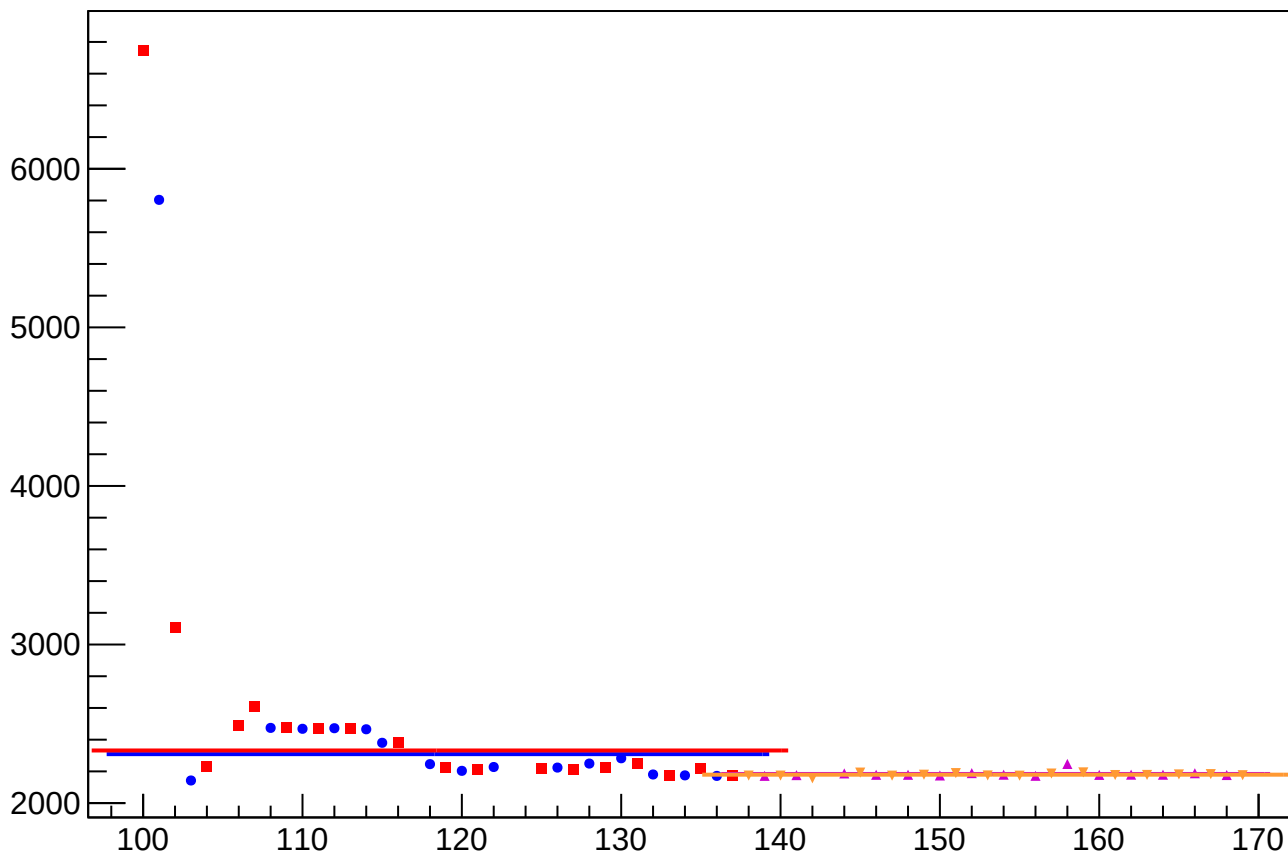
Right: -779.645 $\pm$ 617.702 χ^2 /NDF: 28.0/33

In: -800.205 $\pm$ 505.491 χ^2 /NDF:37.1/30

Out: -733.032 $\pm$ 501.899 χ^2 /NDF:28.3/33

All: -766.379 $\pm$ 356.160 χ^2 /NDF: 65.4/64

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2308.739+/-0.618 χ^2/NDF : 513742.2/15

Left Out: 2179.207+/-0.434 χ^2/NDF : 353.3/15

Right Out: 2331.849+/-0.618 χ^2/NDF : 167321.6/17

Left In: 2183.665+/-0.438 χ^2/NDF : 1633.7/14

Left: 2181.412+/-0.308 χ^2/NDF : 2039.3/30

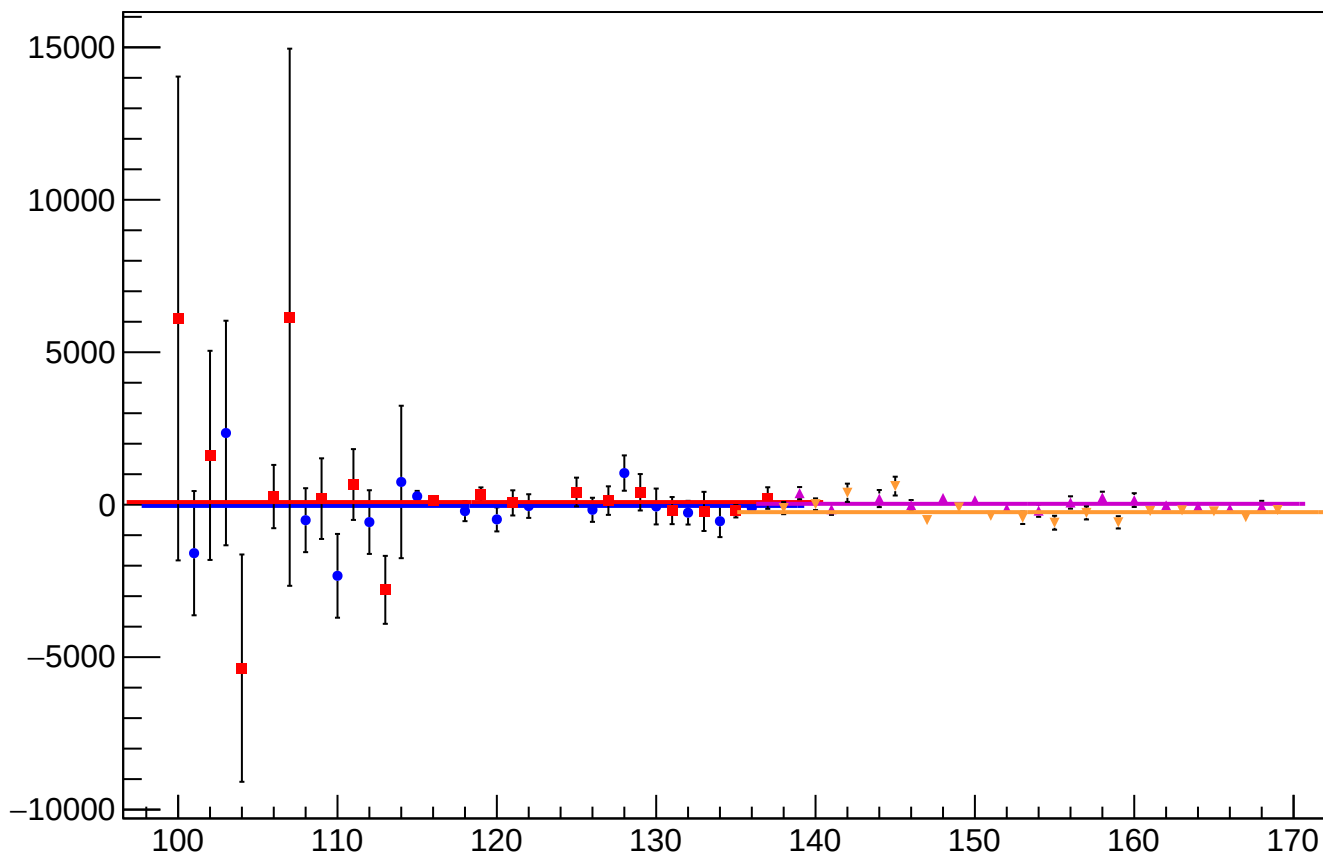
Right: 2320.294+/-0.437 χ^2/NDF : 681763.7/33

In: 2225.547+/-0.357 χ^2/NDF : 542647.9/30

Out: 2229.591+/-0.355 χ^2/NDF : 208581.4/33

All: 2227.584+/-0.252 χ^2/NDF : 751293.8/64

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -40.116 ± 92.408 χ^2/NDF : 14.1/15

Left Out: -244.304 ± 43.423 χ^2/NDF : 26.7/15

Right Out: 86.380 ± 86.087 χ^2/NDF : 15.0/17

Left In: 28.544 ± 45.277 χ^2/NDF : 11.9/14

Left: -113.579 ± 31.340 χ^2/NDF : 57.5/30

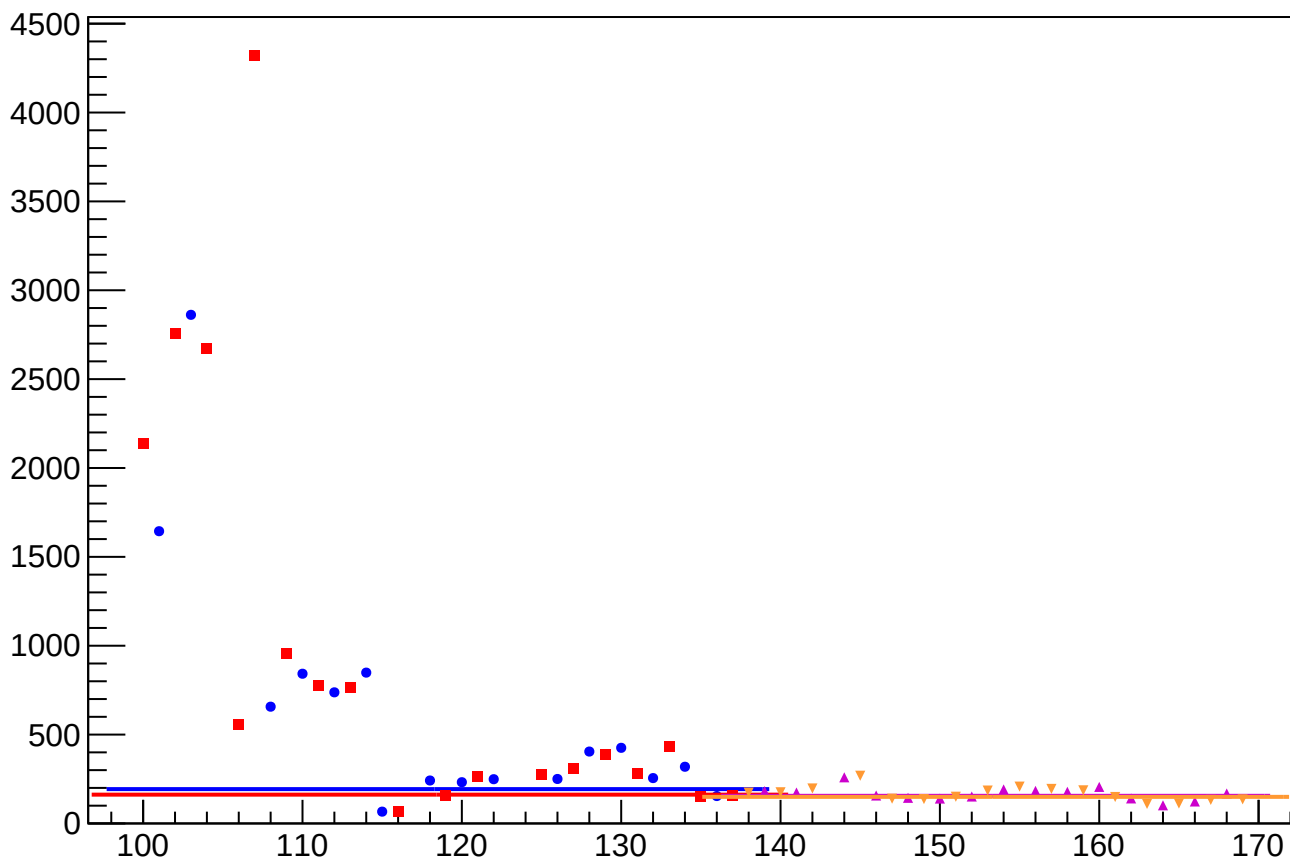
Right: 27.606 ± 62.989 χ^2/NDF : 30.0/33

In: 15.252 ± 40.659 χ^2/NDF : 26.4/30

Out: -177.233 ± 38.770 χ^2/NDF : 53.4/33

All: -85.564 ± 28.059 χ^2/NDF : 91.6/64

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 193.253+/-0.065 χ^2/NDF : 5617884.1/15

Left Out: 149.648+/-0.031 χ^2/NDF : 1172024.1/15

Right Out: 162.112+/-0.061 χ^2/NDF : 7070547.9/17

Left In: 155.481+/-0.032 χ^2/NDF : 1025365.8/14

Left: 152.443+/-0.022 χ^2/NDF : 2214676.7/30

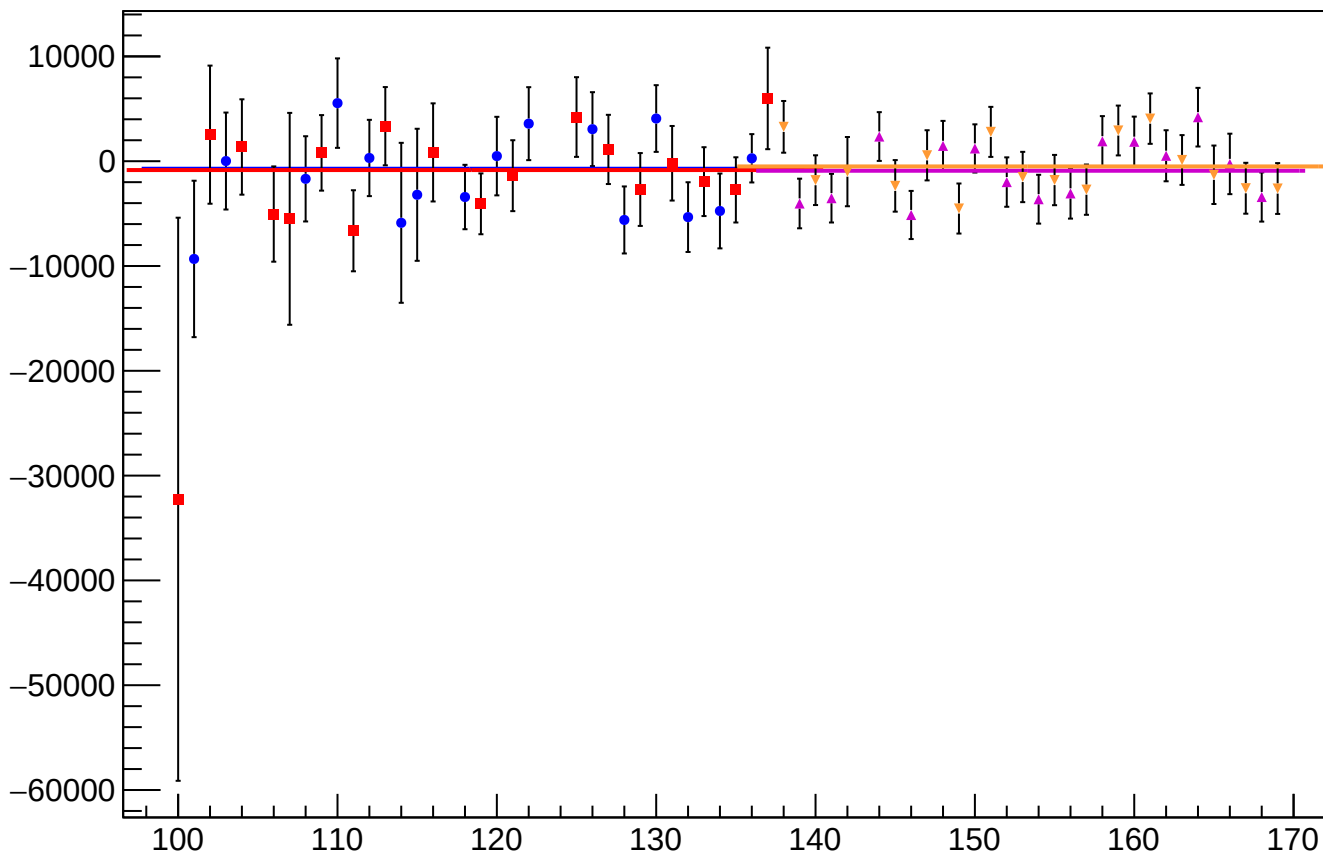
Right: 176.581+/-0.045 χ^2/NDF : 12810031.9/33

In: 162.793+/-0.029 χ^2/NDF : 6912722.8/30

Out: 152.176+/-0.027 χ^2/NDF : 8275991.1/33

All: 157.232+/-0.020 χ^2/NDF : 15260138.1/64

asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -719.565+/-916.228 χ^2/NDF : 15.8/15

Left Out: -498.768+/-615.415 χ^2/NDF : 16.8/15

Right Out: -844.810+/-928.703 χ^2/NDF : 12.9/17

Left In: -909.952+/-621.773 χ^2/NDF : 20.2/14

Left: -702.247+/-437.395 χ^2/NDF : 37.2/30

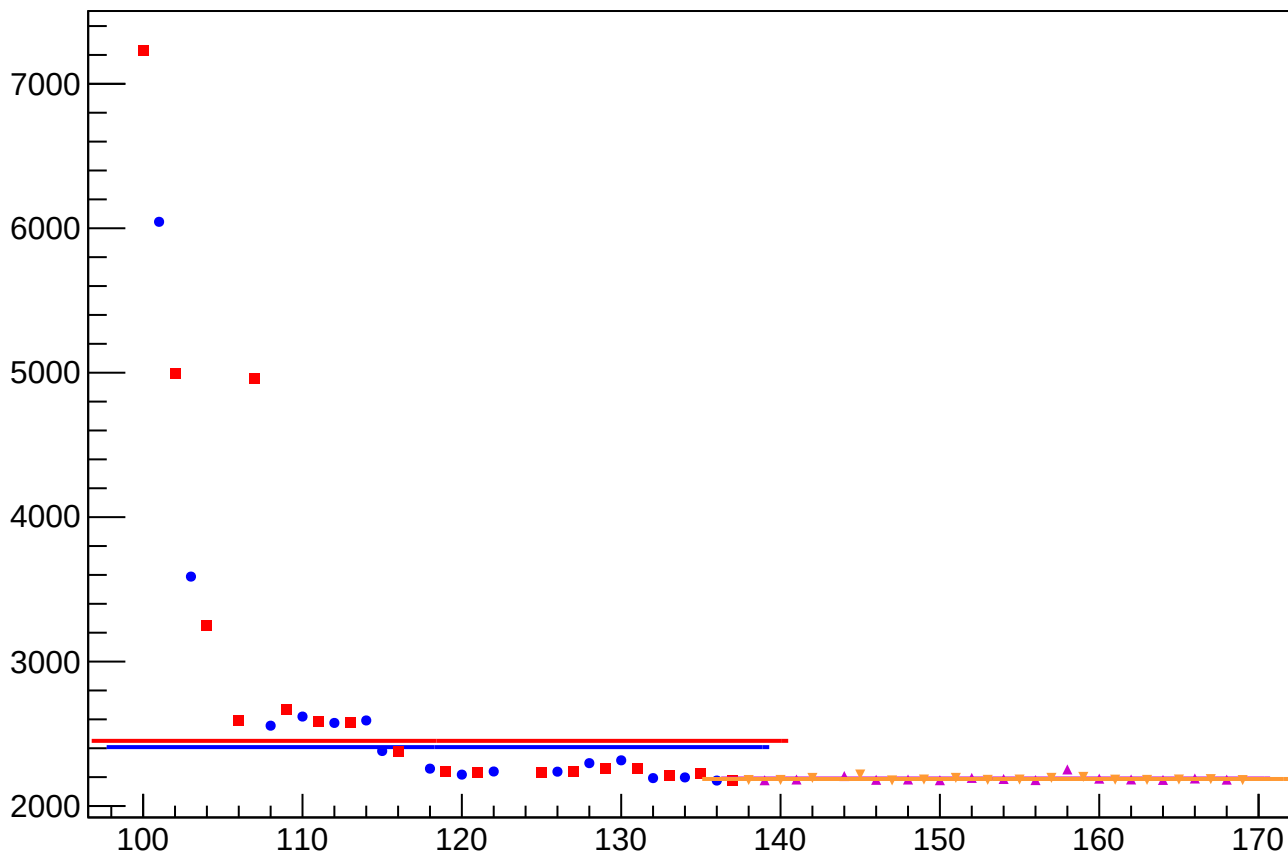
Right: -781.340+/-652.237 χ^2/NDF : 28.7/33

In: -849.920+/-514.490 χ^2/NDF : 36.0/30

Out: -604.356+/-513.003 χ^2/NDF : 29.9/33

All: -726.783+/-363.272 χ^2/NDF : 66.0/64

asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2407.795+/-0.648 χ^2/NDF : 676891.3/15

Left Out: 2187.254+/-0.435 χ^2/NDF : 574.7/15

Right Out: 2451.189+/-0.657 χ^2/NDF : 633600.1/17

Left In: 2190.582+/-0.440 χ^2/NDF : 1756.3/14

Left: 2188.901+/-0.309 χ^2/NDF : 2359.9/30

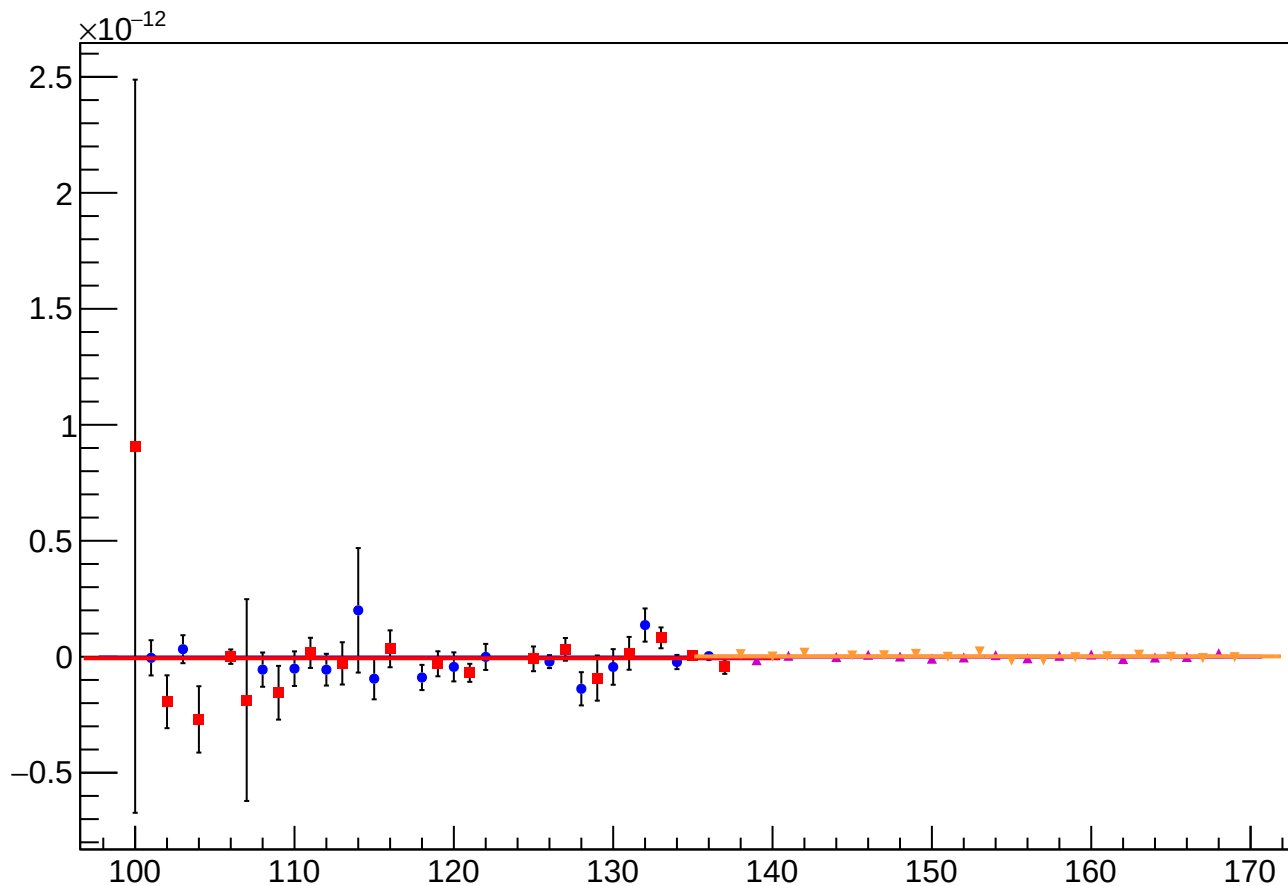
Right: 2429.198+/-0.461 χ^2/NDF : 1312704.2/33

In: 2259.073+/-0.364 χ^2/NDF : 755611.0/30

Out: 2267.789+/-0.363 χ^2/NDF : 746421.7/33

All: 2263.444+/-0.257 χ^2/NDF : 1502320.5/64

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 15.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :15.4/15

Right Out: -0.000+/-0.000 χ^2/NDF : 18.9/17

Left In: 0.000+/-0.000 χ^2/NDF :12.2/14

Left: 0.000+/-0.000 χ^2/NDF : 27.9/30

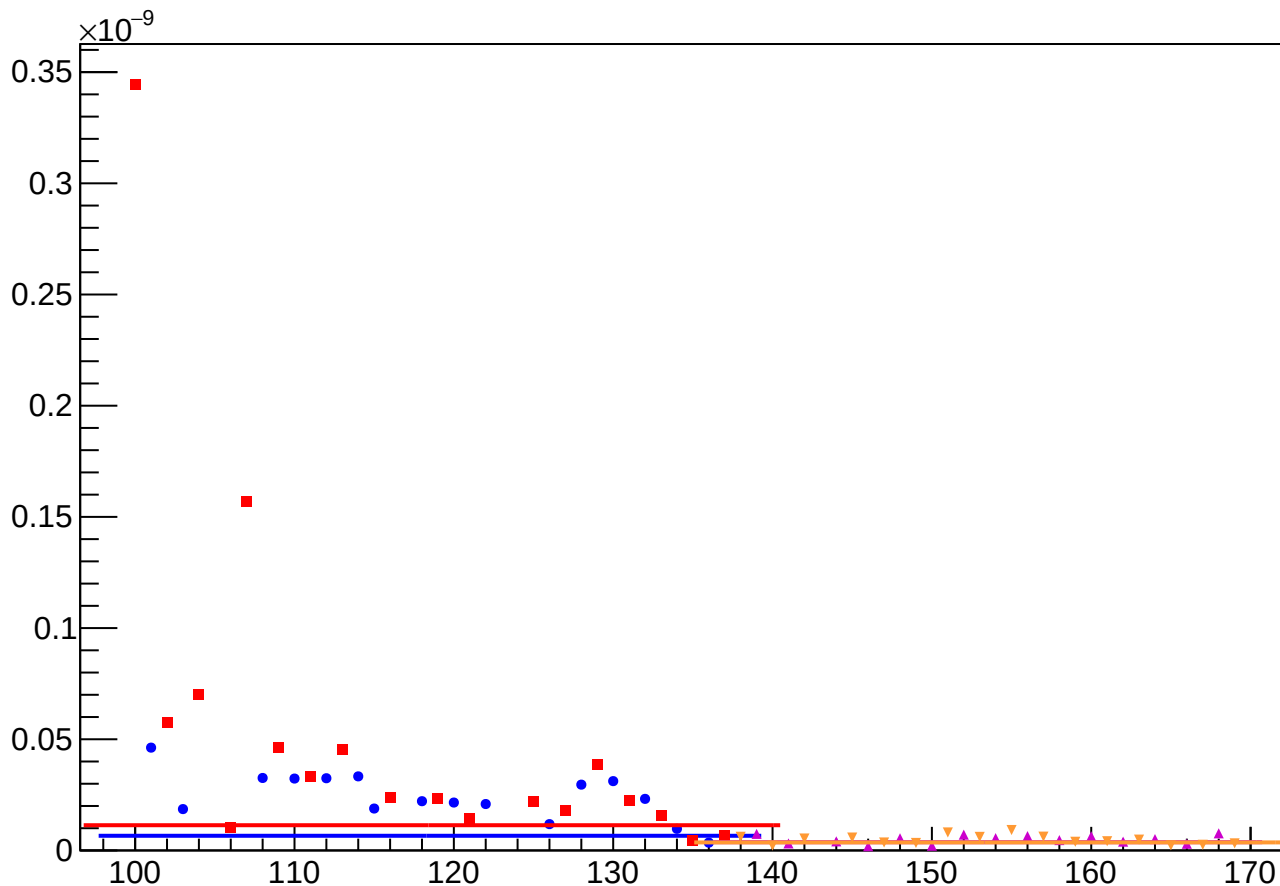
Right: -0.000+/-0.000 χ^2/NDF : 34.5/33

In: -0.000+/-0.000 χ^2/NDF :28.0/30

Out: 0.000+/-0.000 χ^2/NDF :34.9/33

All: 0.000+/-0.000 χ^2/NDF : 63.3/64

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2856979.2/15

Left Out: 0.000+/-0.000 χ^2/NDF :1420749.7/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2697712.1/17

Left In: 0.000+/-0.000 χ^2/NDF :1355530.1/14

Left: 0.000+/-0.000 χ^2/NDF : 2779113.7/30

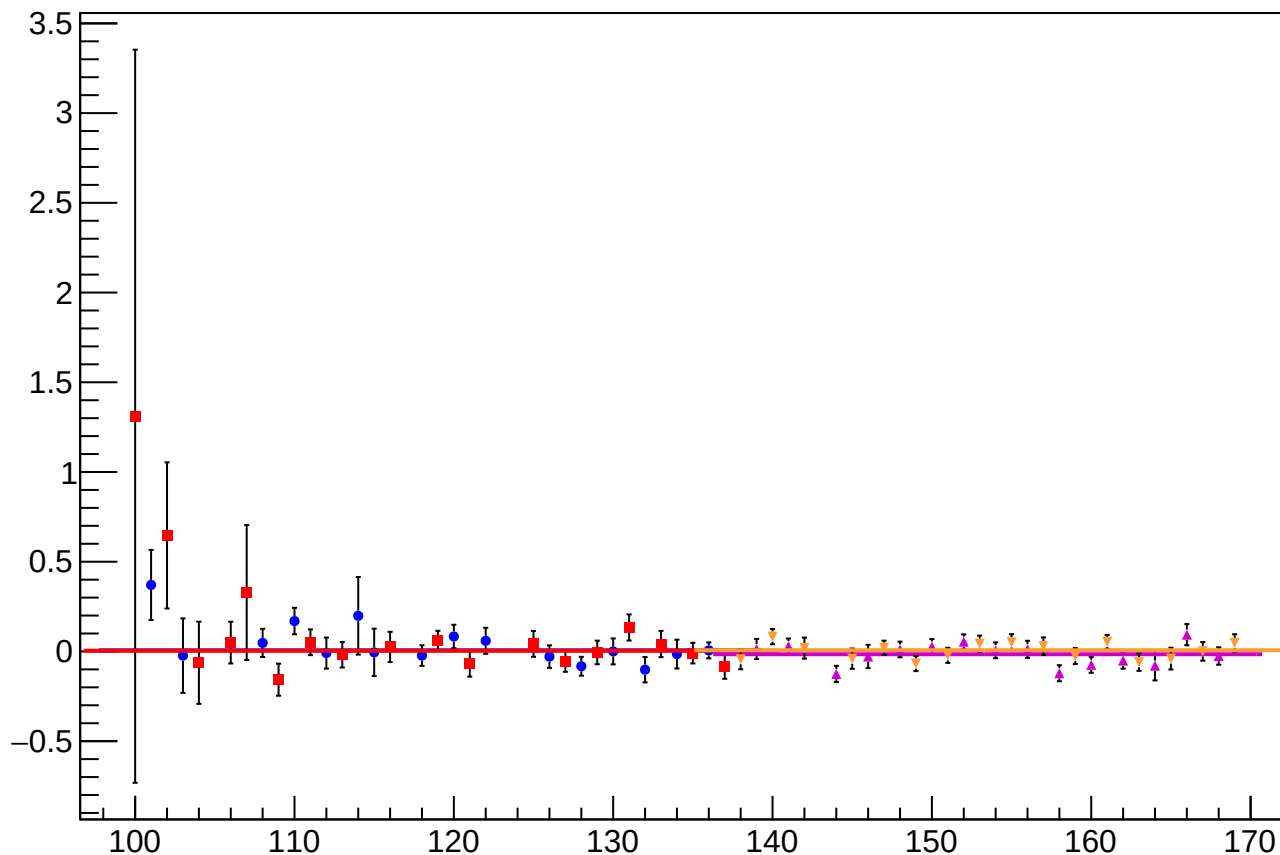
Right: 0.000+/-0.000 χ^2/NDF : 5888629.2/33

In: 0.000+/-0.000 χ^2/NDF :4589986.6/30

Out: 0.000+/-0.000 χ^2/NDF :5327871.6/33

All: 0.000+/-0.000 χ^2/NDF : 9921160.9/64

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006+/-0.018 χ^2/NDF : 17.2/15

Left Out: 0.007+/-0.012 χ^2/NDF :15.3/15

Right Out: 0.004+/-0.019 χ^2/NDF : 16.3/17

Left In: -0.015+/-0.012 χ^2/NDF :24.2/14

Left: -0.004+/-0.008 χ^2/NDF : 41.2/30

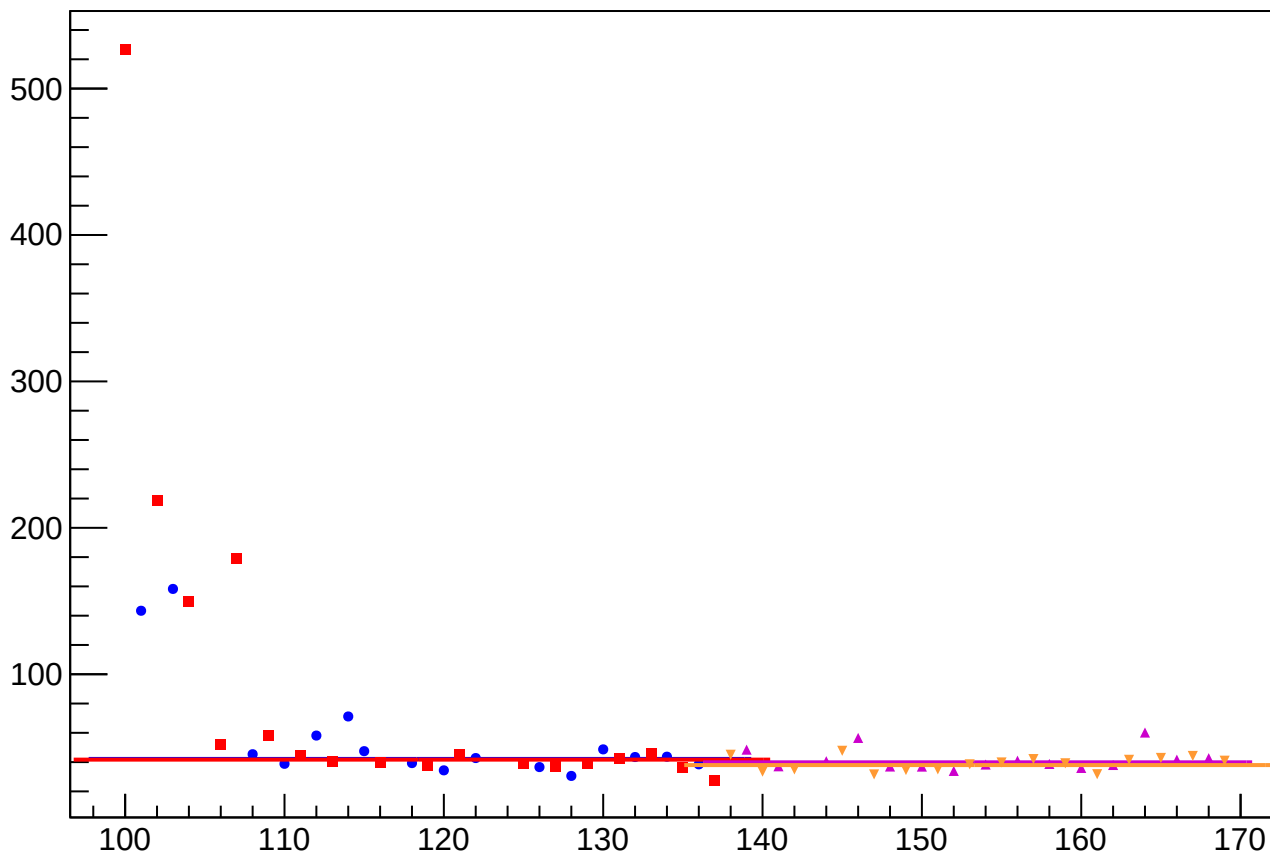
Right: 0.005+/-0.013 χ^2/NDF : 33.5/33

In: -0.009+/-0.010 χ^2/NDF :42.4/30

Out: 0.006+/-0.010 χ^2/NDF :31.6/33

All: -0.001+/-0.007 χ^2/NDF : 75.1/64

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 42.165 $\pm$ 0.013 χ^2 /NDF: 1454378.8/15

Left Out: 37.968 $\pm$ 0.008 χ^2 /NDF:323017.5/15

Right Out: 41.692 $\pm$ 0.013 χ^2 /NDF: 1441204.7/17

Left In: 39.847 $\pm$ 0.009 χ^2 /NDF:401997.5/14

Left: 38.862 $\pm$ 0.006 χ^2 /NDF: 749419.7/30

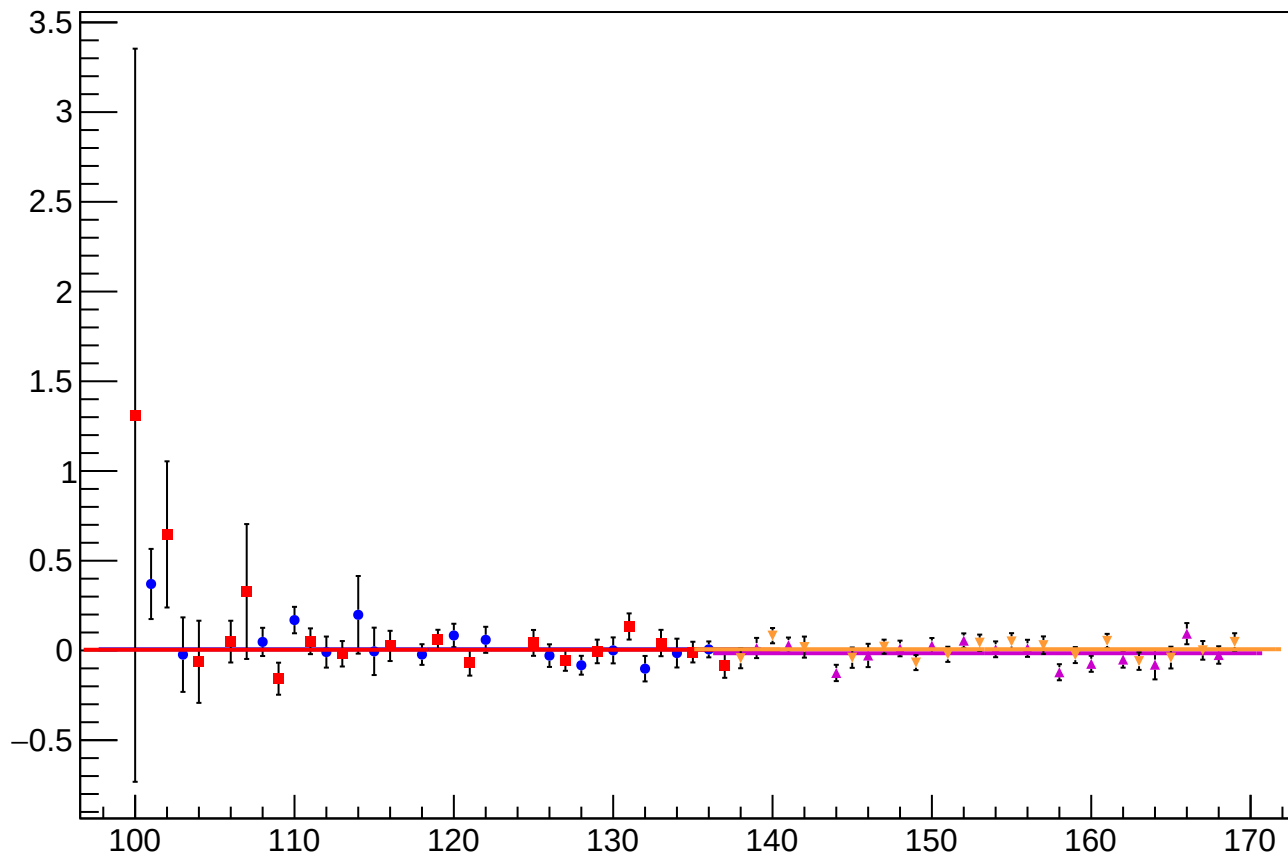
Right: 41.933 $\pm$ 0.009 χ^2 /NDF: 2896244.2/33

In: 40.573 $\pm$ 0.007 χ^2 /NDF:1878525.3/30

Out: 39.029 $\pm$ 0.007 χ^2 /NDF:1821620.5/33

All: 39.778 $\pm$ 0.005 χ^2 /NDF: 3723650.6/64

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.018 χ^2 /NDF: 17.2/15

Left Out: 0.007 $\pm$ 0.012 χ^2 /NDF:15.3/15

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: -0.015 $\pm$ 0.012 χ^2 /NDF:24.2/14

Left: -0.004 $\pm$ 0.008 χ^2 /NDF: 41.2/30

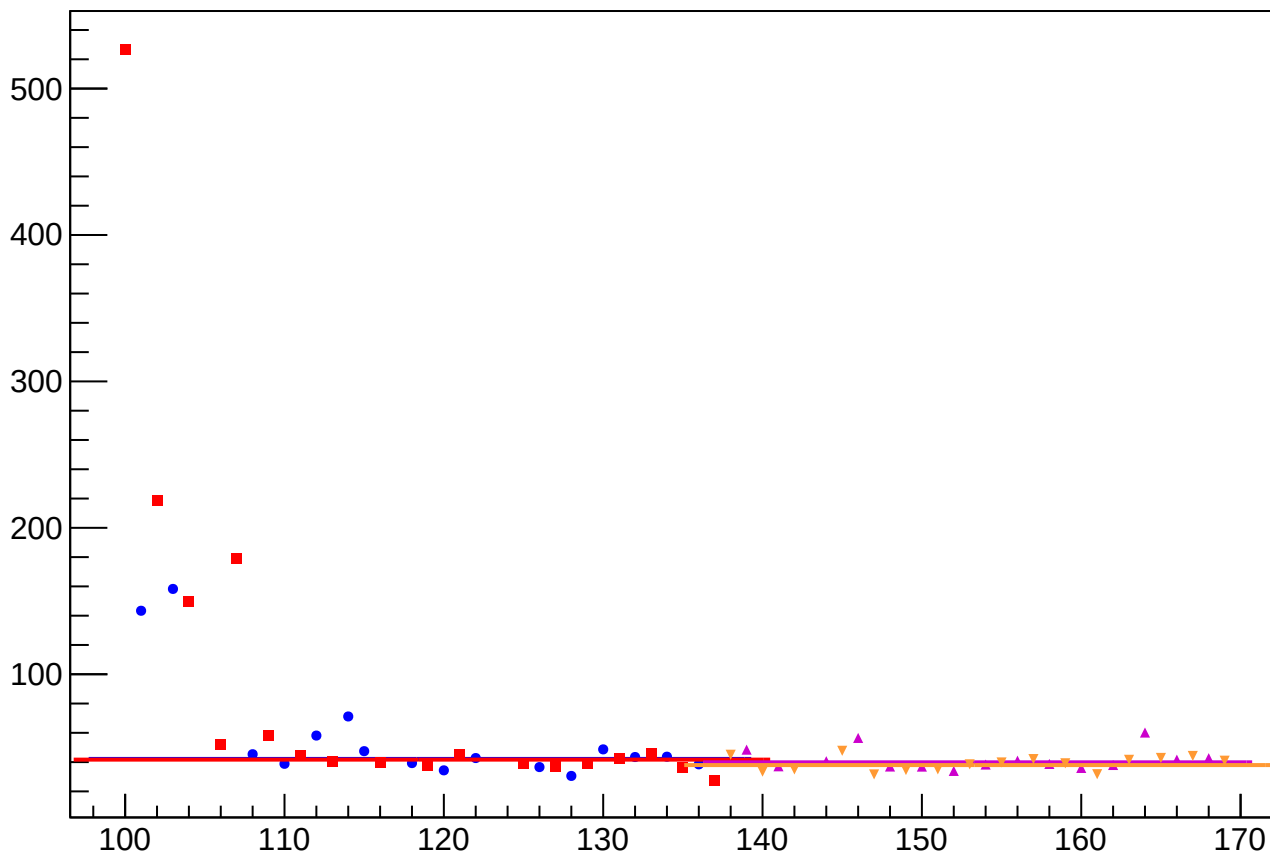
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: -0.009 $\pm$ 0.010 χ^2 /NDF:42.4/30

Out: 0.006 $\pm$ 0.010 χ^2 /NDF:31.6/33

All: -0.001 $\pm$ 0.007 χ^2 /NDF: 75.1/64

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 42.165 $\pm$ 0.013 χ^2 /NDF: 1454378.8/15

Left Out: 37.968 $\pm$ 0.008 χ^2 /NDF:323017.5/15

Right Out: 41.692 $\pm$ 0.013 χ^2 /NDF: 1441204.7/17

Left In: 39.847 $\pm$ 0.009 χ^2 /NDF:401997.5/14

Left: 38.862 $\pm$ 0.006 χ^2 /NDF: 749419.7/30

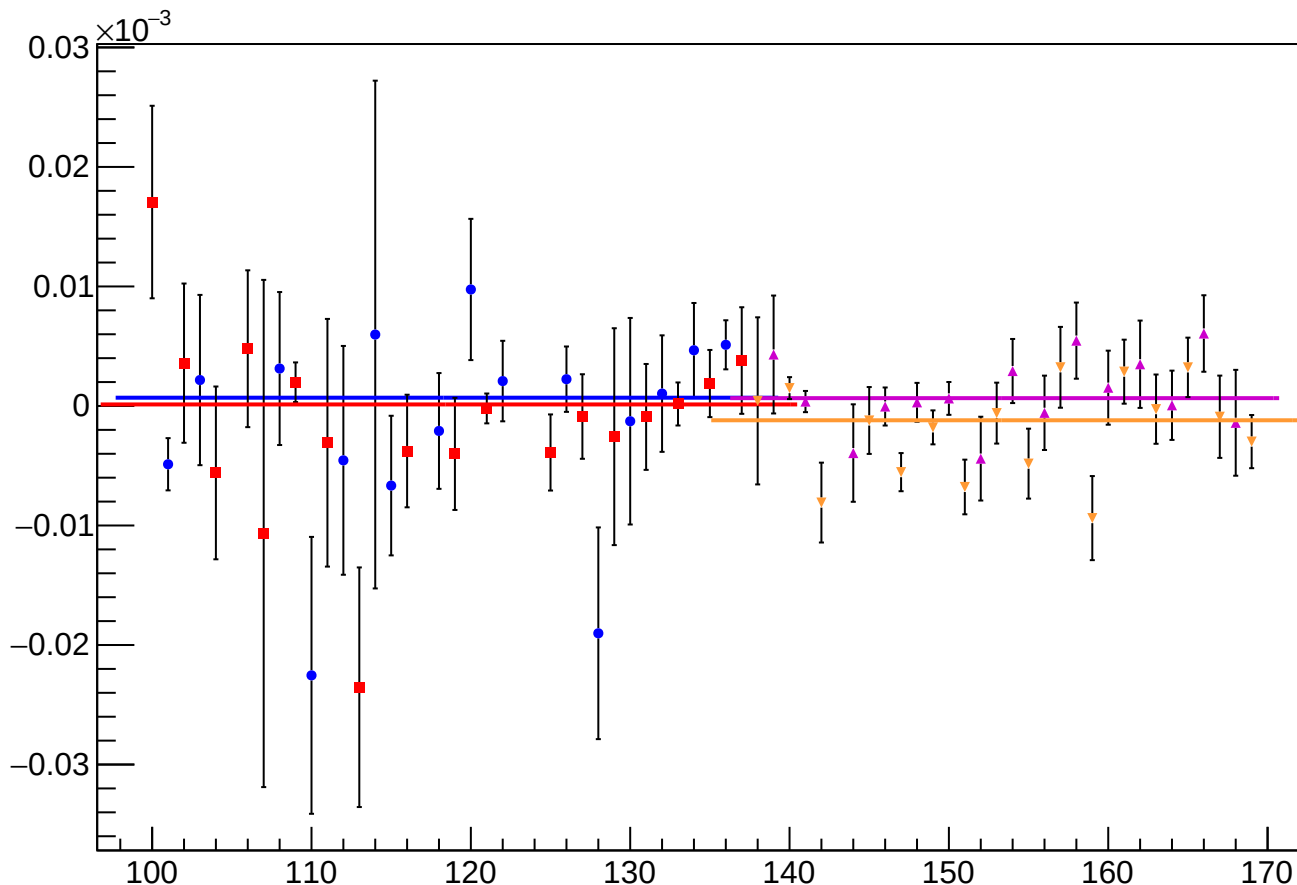
Right: 41.933 $\pm$ 0.009 χ^2 /NDF: 2896244.2/33

In: 40.573 $\pm$ 0.007 χ^2 /NDF:1878525.3/30

Out: 39.029 $\pm$ 0.007 χ^2 /NDF:1821620.5/33

All: 39.778 $\pm$ 0.005 χ^2 /NDF: 3723650.6/64

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 26.5/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 41.4/15$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 17.4/17$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 11.2/14$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 58.7/30$

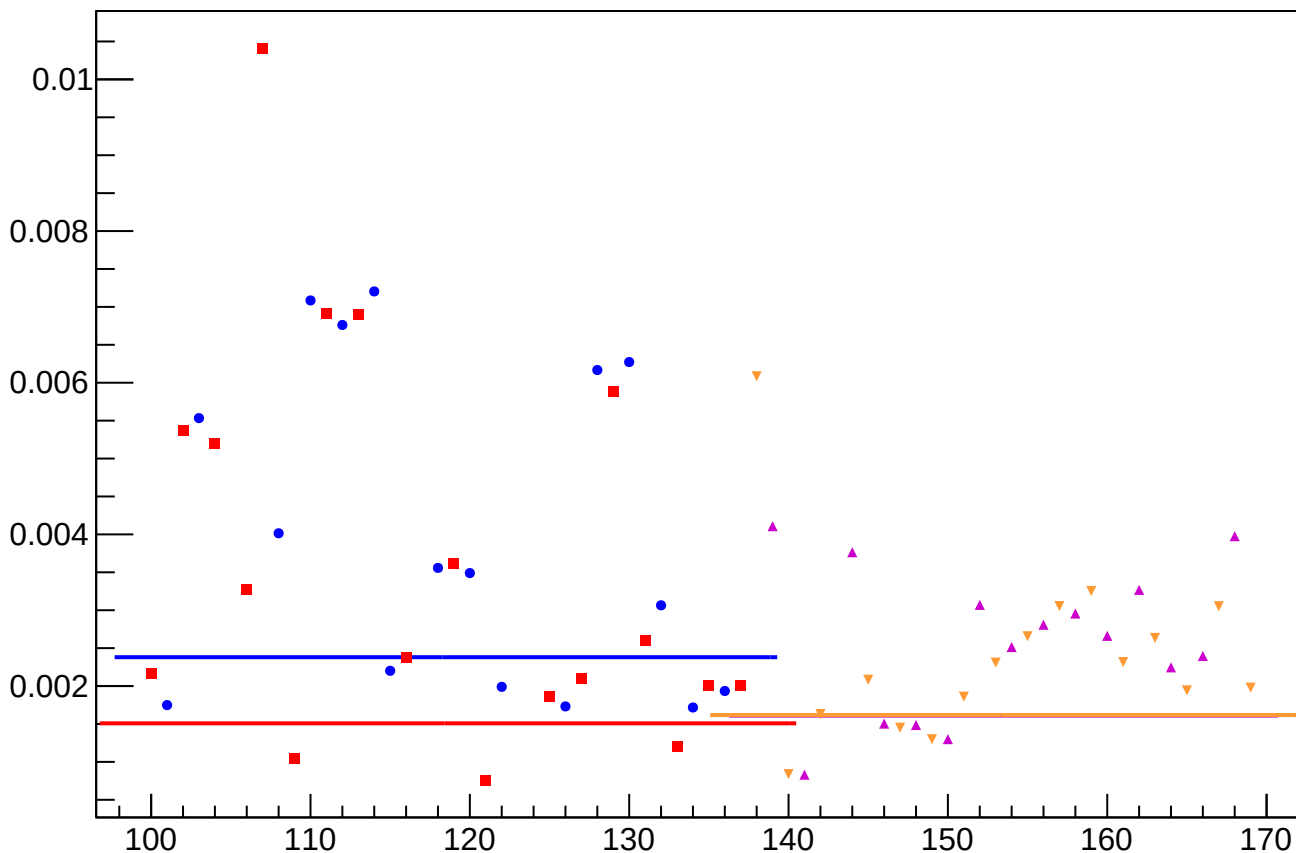
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 44.1/33$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 37.7/30$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 61.0/33$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 103.6/64$

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2832488.0/15

Left Out: 0.002+/-0.000 χ^2/NDF : 4468694.6/15

Right Out: 0.002+/-0.000 χ^2/NDF : 5001667.0/17

Left In: 0.002+/-0.000 χ^2/NDF : 5392148.8/14

Left: 0.002+/-0.000 χ^2/NDF : 9861053.3/30

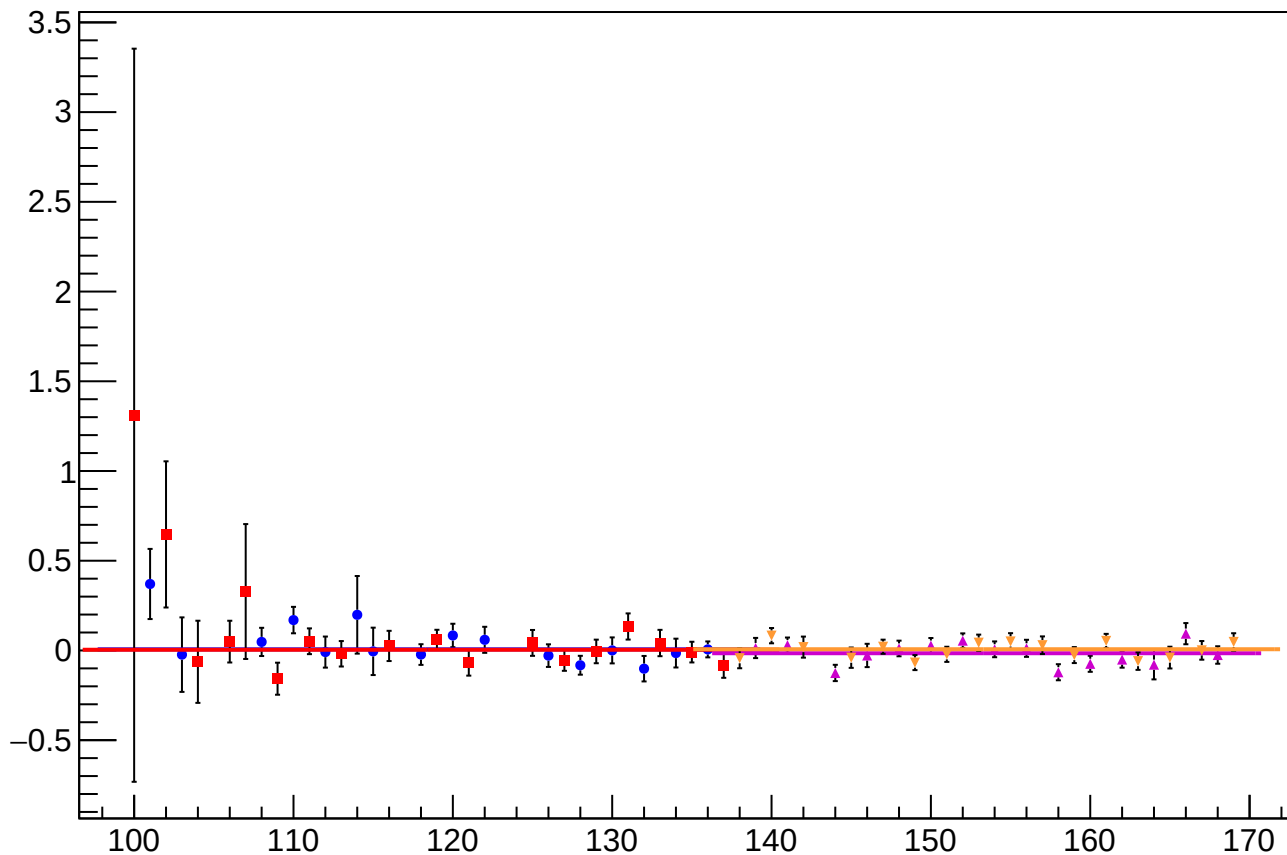
Right: 0.002+/-0.000 χ^2/NDF : 8812145.3/33

In: 0.002+/-0.000 χ^2/NDF : 9125785.4/30

Out: 0.002+/-0.000 χ^2/NDF : 9500384.4/33

All: 0.002+/-0.000 χ^2/NDF : 18815916.7/64

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.018 χ^2 /NDF: 17.2/15

Left Out: 0.007 $\pm$ 0.012 χ^2 /NDF:15.3/15

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: -0.015 $\pm$ 0.012 χ^2 /NDF:24.2/14

Left: -0.004 $\pm$ 0.008 χ^2 /NDF: 41.2/30

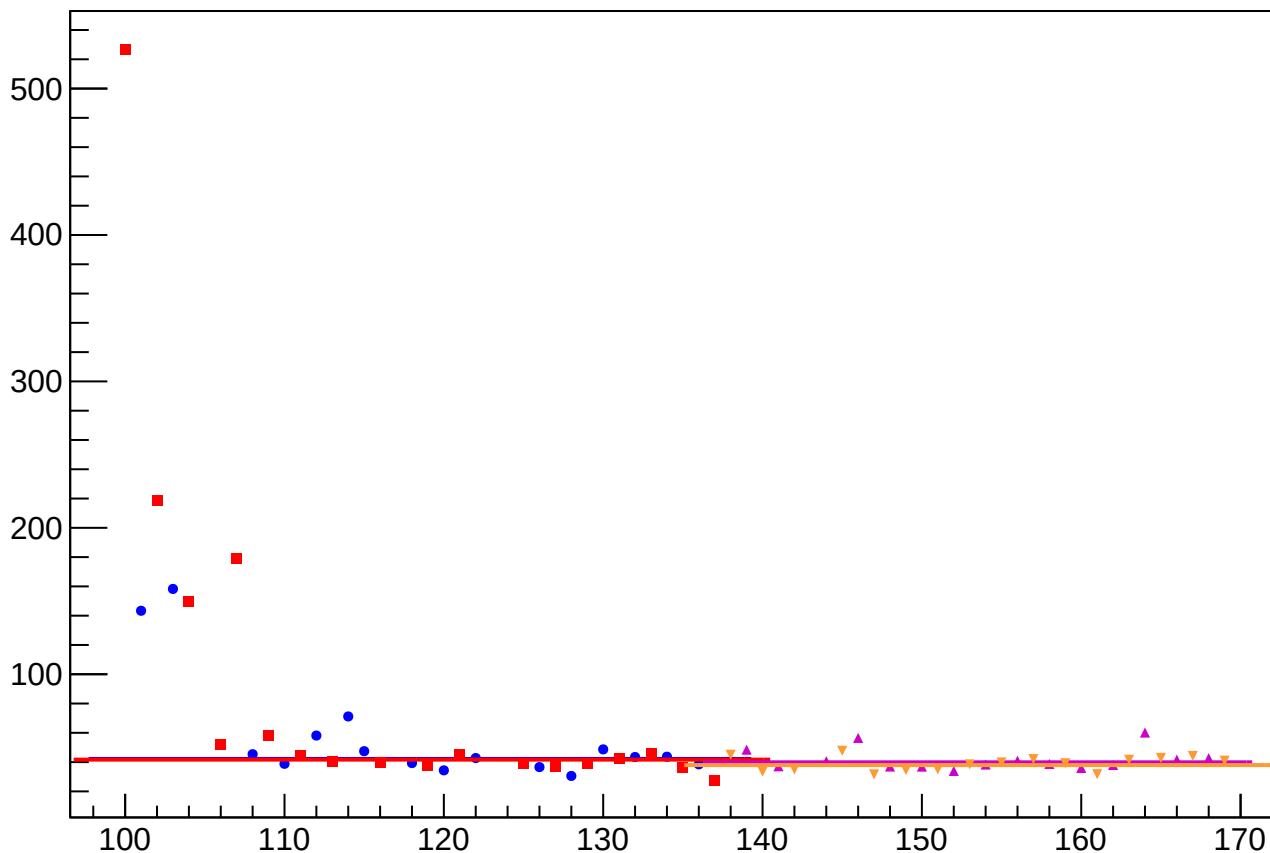
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: -0.009 $\pm$ 0.010 χ^2 /NDF:42.4/30

Out: 0.006 $\pm$ 0.010 χ^2 /NDF:31.6/33

All: -0.001 $\pm$ 0.007 χ^2 /NDF: 75.1/64

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 42.163+/-0.013 χ^2/NDF : 1454592.8/15

Left Out: 37.968+/-0.008 χ^2/NDF : 323006.4/15

Right Out: 41.692+/-0.013 χ^2/NDF : 1441185.4/17

Left In: 39.847+/-0.009 χ^2/NDF : 402034.0/14

Left: 38.862+/-0.006 χ^2/NDF : 749440.6/30

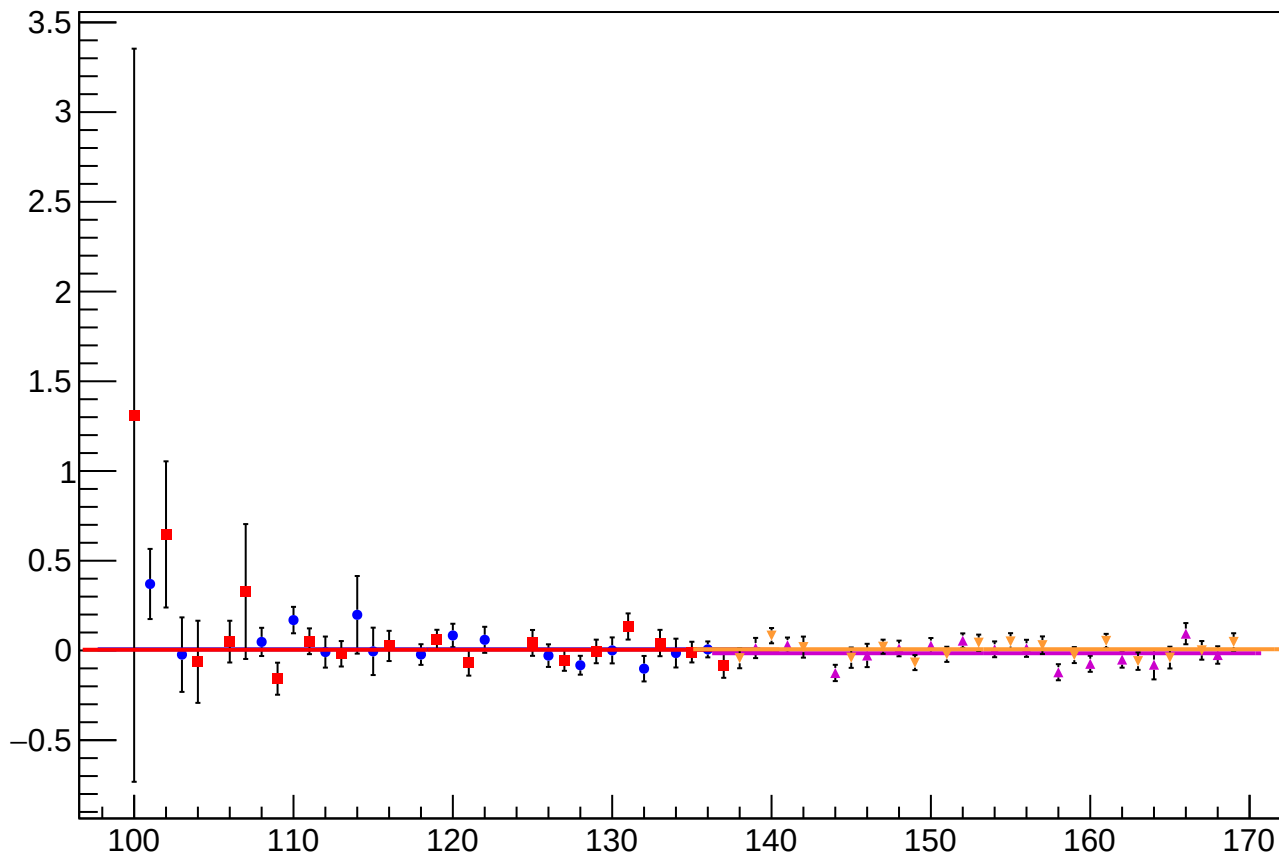
Right: 41.932+/-0.009 χ^2/NDF : 2896430.8/33

In: 40.572+/-0.007 χ^2/NDF : 1878730.4/30

Out: 39.029+/-0.007 χ^2/NDF : 1821599.2/33

All: 39.778+/-0.005 χ^2/NDF : 3723804.9/64

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.018 χ^2 /NDF: 17.2/15

Left Out: 0.007 $\pm$ 0.012 χ^2 /NDF:15.3/15

Right Out: 0.004 $\pm$ 0.019 χ^2 /NDF: 16.3/17

Left In: -0.015 $\pm$ 0.012 χ^2 /NDF:24.2/14

Left: -0.004 $\pm$ 0.008 χ^2 /NDF: 41.2/30

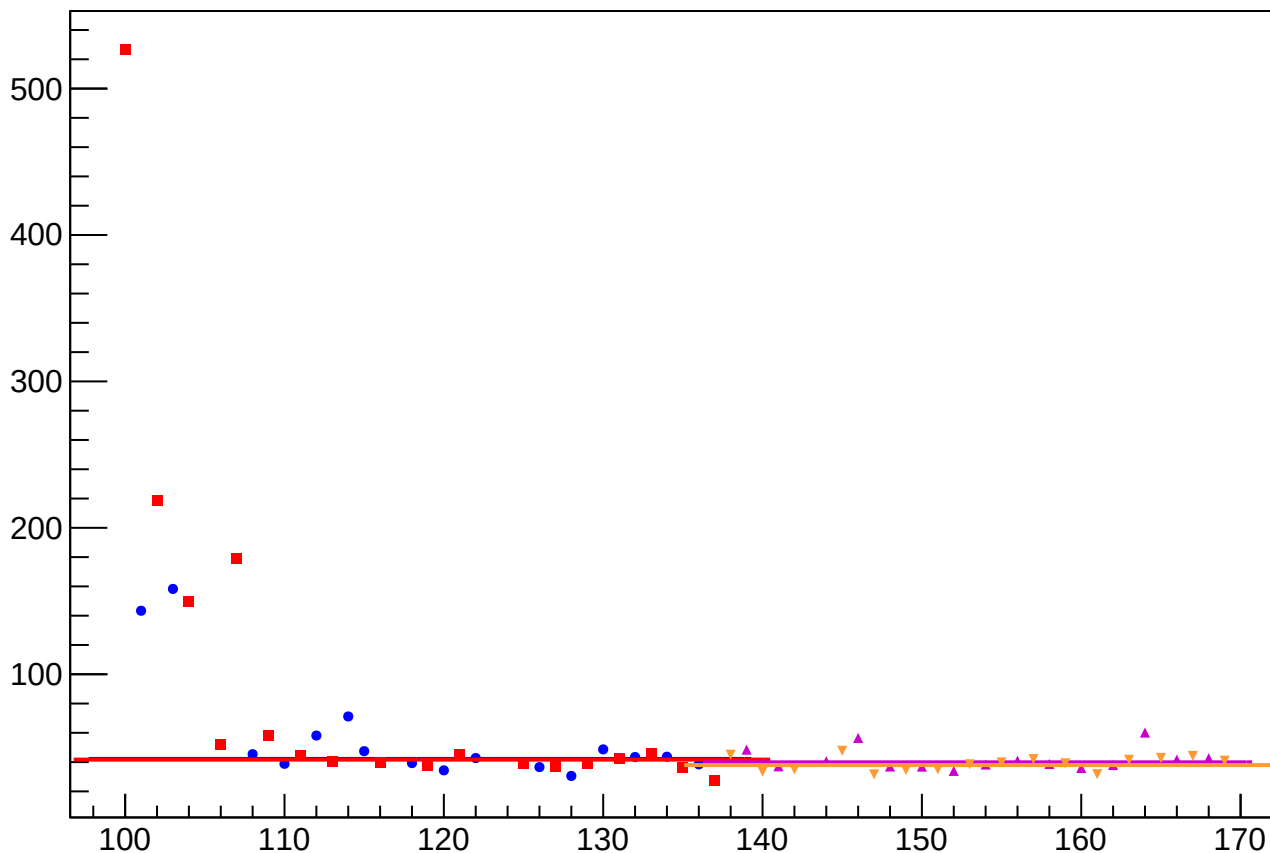
Right: 0.005 $\pm$ 0.013 χ^2 /NDF: 33.5/33

In: -0.009 $\pm$ 0.010 χ^2 /NDF:42.4/30

Out: 0.006 $\pm$ 0.010 χ^2 /NDF:31.6/33

All: -0.001 $\pm$ 0.007 χ^2 /NDF: 75.1/64

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 42.163 $\pm$ 0.013 χ^2 /NDF: 1454592.8/15

Left Out: 37.968 $\pm$ 0.008 χ^2 /NDF: 323006.4/15

Right Out: 41.692 $\pm$ 0.013 χ^2 /NDF: 1441185.4/17

Left In: 39.847 $\pm$ 0.009 χ^2 /NDF: 402034.0/14

Left: 38.862 $\pm$ 0.006 χ^2 /NDF: 749440.6/30

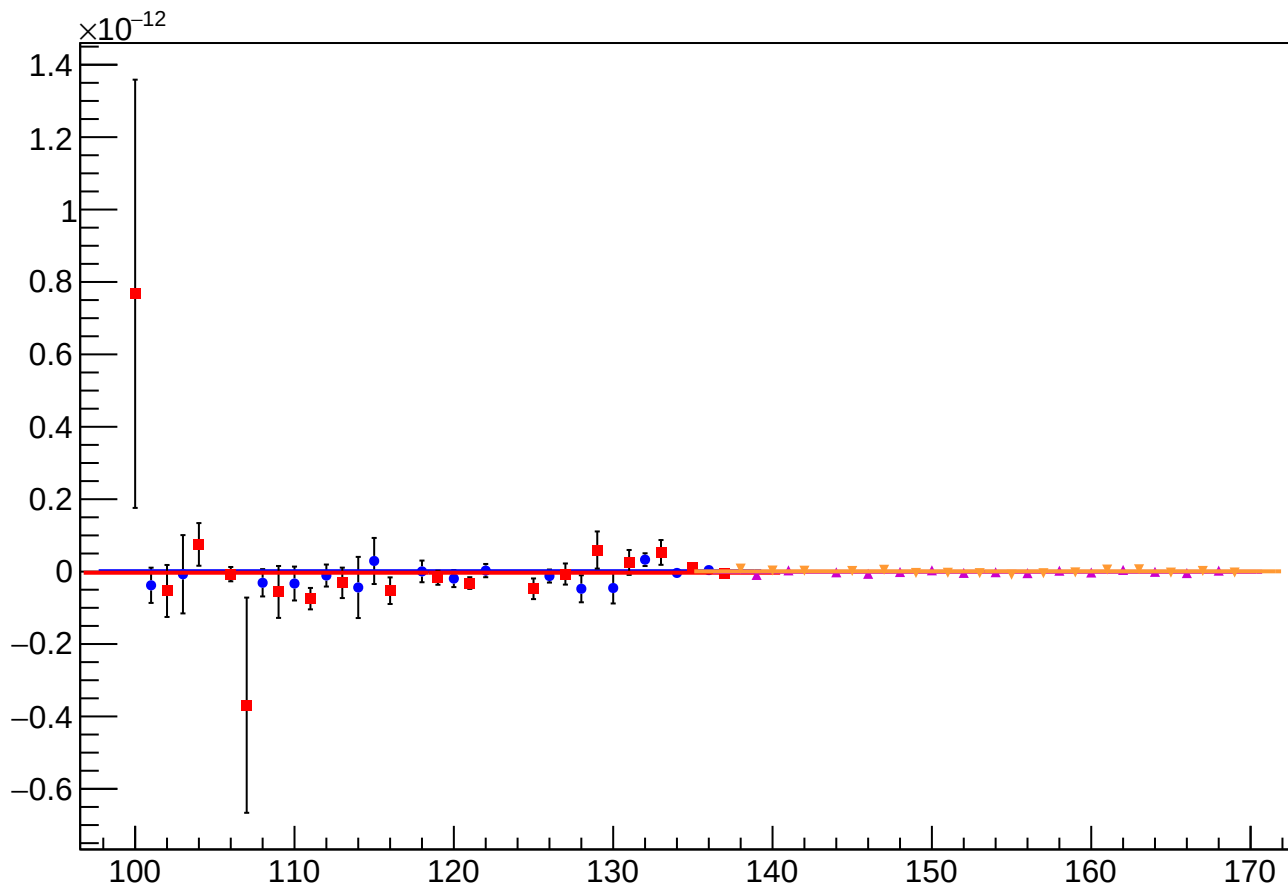
Right: 41.932 $\pm$ 0.009 χ^2 /NDF: 2896430.8/33

In: 40.572 $\pm$ 0.007 χ^2 /NDF: 1878730.4/30

Out: 39.029 $\pm$ 0.007 χ^2 /NDF: 1821599.2/33

All: 39.778 $\pm$ 0.005 χ^2 /NDF: 3723804.9/64

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :12.5/15

Right Out: -0.000+/-0.000 χ^2/NDF : 28.8/17

Left In: -0.000+/-0.000 χ^2/NDF :8.9/14

Left: 0.000+/-0.000 χ^2/NDF : 22.0/30

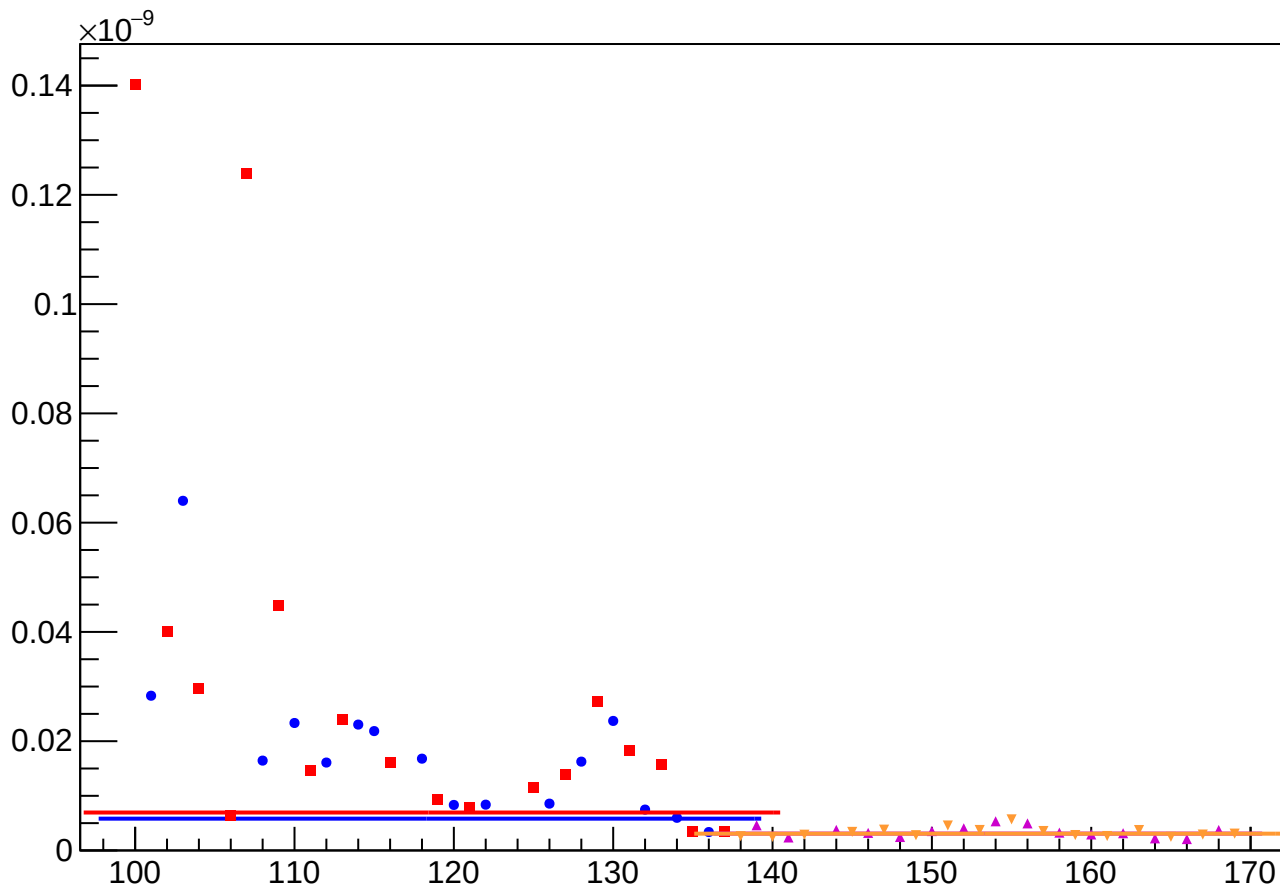
Right: -0.000+/-0.000 χ^2/NDF : 39.8/33

In: -0.000+/-0.000 χ^2/NDF :19.6/30

Out: 0.000+/-0.000 χ^2/NDF :41.9/33

All: 0.000+/-0.000 χ^2/NDF : 61.9/64

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3296021.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 577002.6/15

Right Out: 0.000+/-0.000 χ^2/NDF : 3789910.8/17

Left In: 0.000+/-0.000 χ^2/NDF : 963565.5/14

Left: 0.000+/-0.000 χ^2/NDF : 1540701.9/30

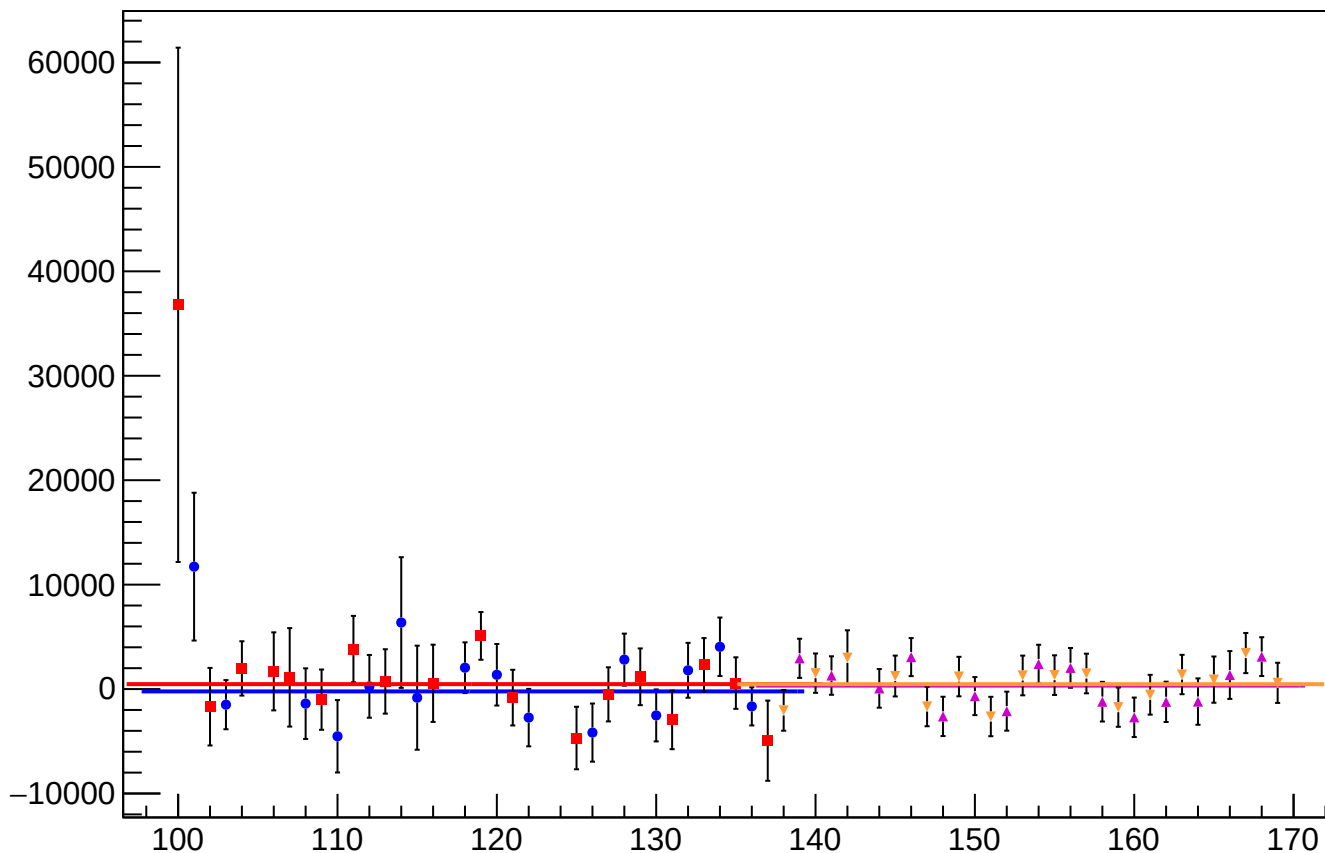
Right: 0.000+/-0.000 χ^2/NDF : 7152698.2/33

In: 0.000+/-0.000 χ^2/NDF : 5148251.3/30

Out: 0.000+/-0.000 χ^2/NDF : 5622250.4/33

All: 0.000+/-0.000 χ^2/NDF : 10770882.2/64

reg_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -222.980+/-709.150 χ^2/NDF : 15.8/15

Left Out: 467.109+/-487.534 χ^2/NDF :12.2/15

Right Out: 472.410+/-711.475 χ^2/NDF : 15.9/17

Left In: 333.529+/-492.531 χ^2/NDF :17.8/14

Left: 401.000+/-346.492 χ^2/NDF : 30.0/30

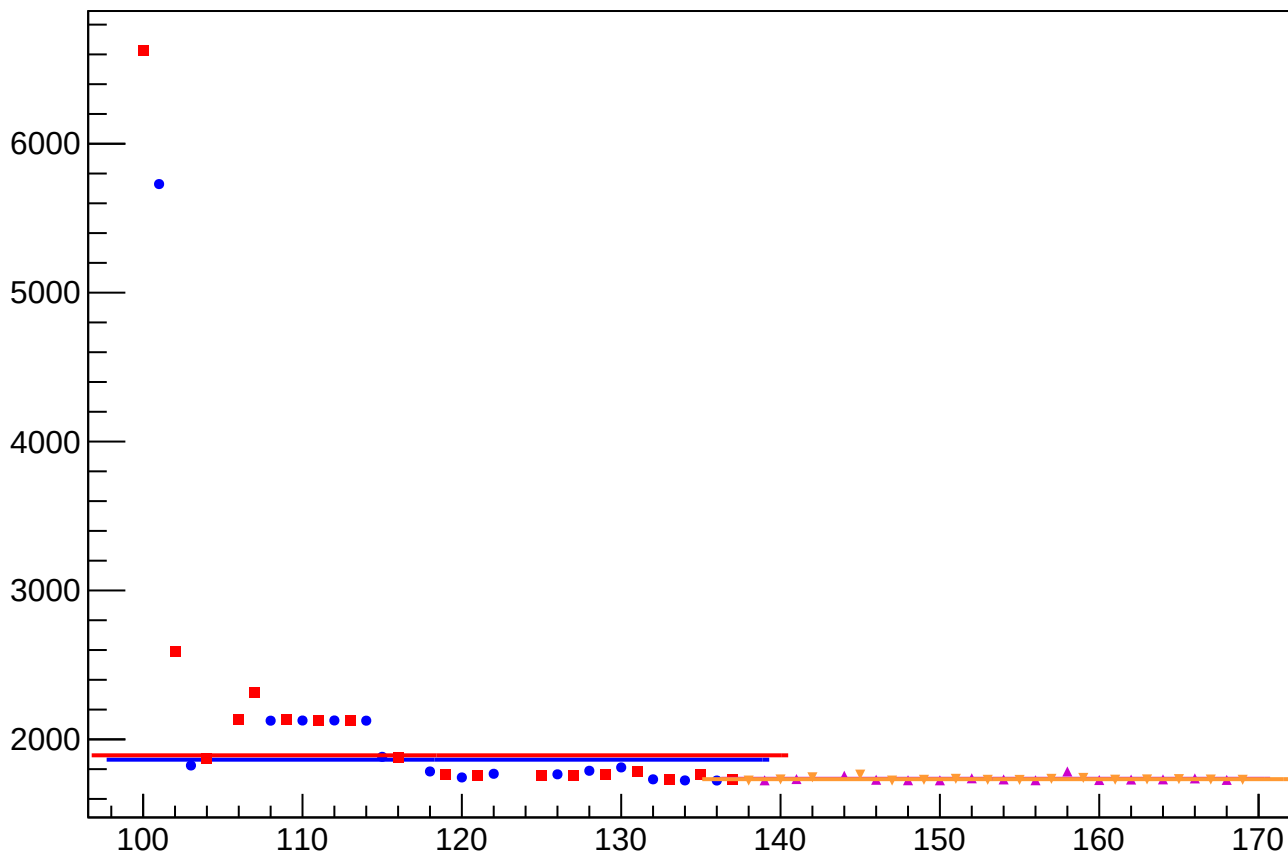
Right: 123.577+/-502.265 χ^2/NDF : 32.2/33

In: 152.436+/-404.533 χ^2/NDF :34.1/30

Out: 468.803+/-402.172 χ^2/NDF :28.1/33

All: 311.545+/-285.209 χ^2/NDF : 62.4/64

reg_asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1863.581+/-0.501 χ^2/NDF : 674665.6/15

Left Out: 1732.739+/-0.345 χ^2/NDF : 728.8/15

Right Out: 1892.866+/-0.503 χ^2/NDF : 251512.9/17

Left In: 1735.241+/-0.348 χ^2/NDF : 1942.8/14

Left: 1733.977+/-0.245 χ^2/NDF : 2697.7/30

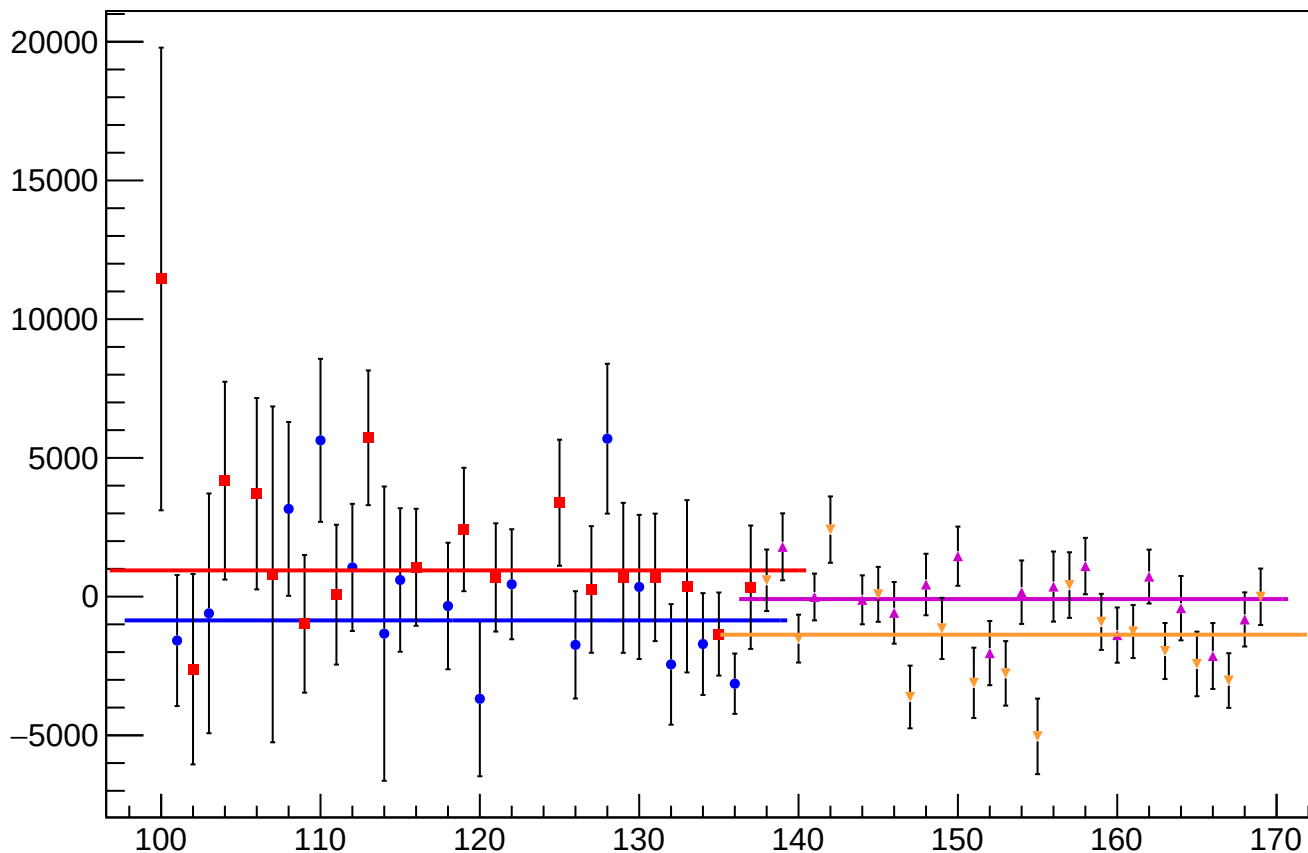
Right: 1878.175+/-0.355 χ^2/NDF : 927878.2/33

In: 1777.004+/-0.286 χ^2/NDF : 720797.4/30

Out: 1783.903+/-0.284 χ^2/NDF : 321178.9/33

All: 1780.474+/-0.202 χ^2/NDF : 1042268.9/64

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -857.294+/-549.791 χ^2/NDF : 20.6/15

Left Out: -1372.875+/-268.388 χ^2/NDF :38.2/15

Right Out: 944.718+/-583.967 χ^2/NDF : 12.9/17

Left In: -88.825+/-271.582 χ^2/NDF :15.4/14

Left: -738.445+/-190.898 χ^2/NDF : 64.9/30

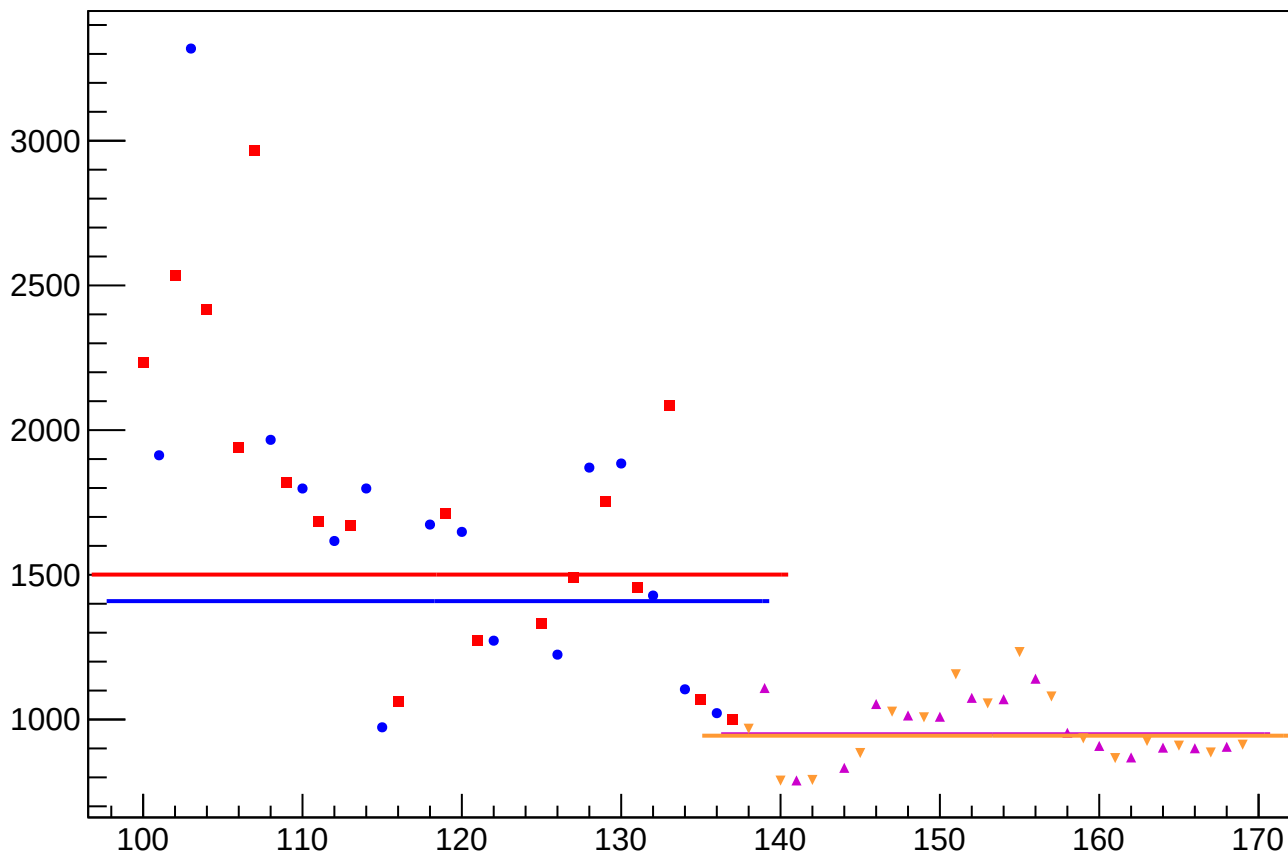
Right: -10.558+/-400.298 χ^2/NDF : 38.6/33

In: -239.558+/-243.495 χ^2/NDF :37.6/30

Out: -968.708+/-243.866 χ^2/NDF :64.1/33

All: -603.578+/-172.308 χ^2/NDF : 106.1/64

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1409.096 $\pm$ 0.389 χ^2 /NDF: 1167706.6/15

Left Out: 944.103 $\pm$ 0.190 χ^2 /NDF: 338240.9/15

Right Out: 1500.801 $\pm$ 0.413 χ^2 /NDF: 1030768.2/17

Left In: 949.012 $\pm$ 0.192 χ^2 /NDF: 291889.0/14

Left: 946.528 $\pm$ 0.135 χ^2 /NDF: 630460.5/30

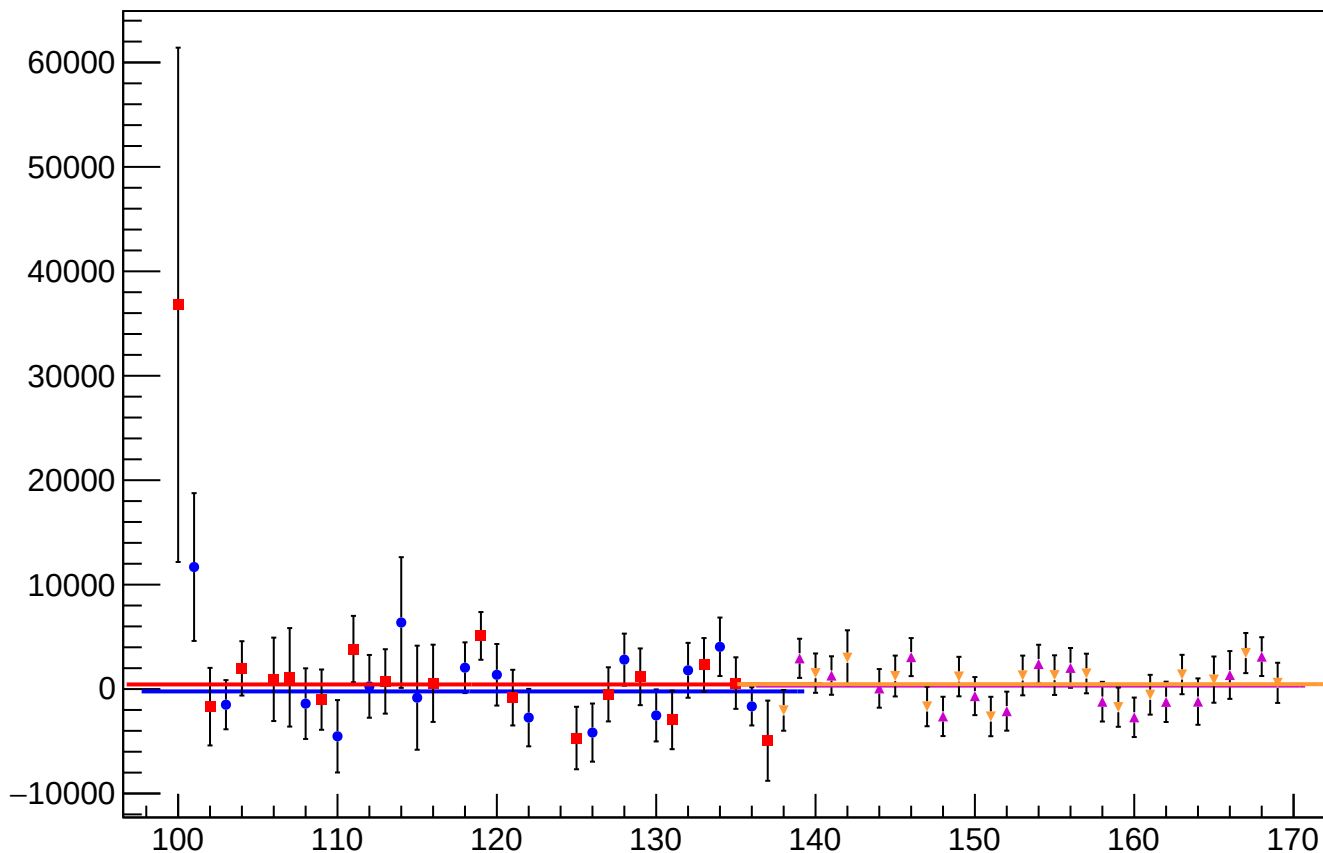
Right: 1452.187 $\pm$ 0.283 χ^2 /NDF: 2224621.1/33

In: 1039.256 $\pm$ 0.172 χ^2 /NDF: 2585456.1/30

Out: 1041.186 $\pm$ 0.172 χ^2 /NDF: 2869614.3/33

All: 1040.220 $\pm$ 0.122 χ^2 /NDF: 5455133.1/64

cor_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -223.754+/-709.151 χ^2/NDF : 15.8/15

Left Out: 467.182+/-487.534 χ^2/NDF :12.2/15

Right Out: 443.022+/-713.098 χ^2/NDF : 15.8/17

Left In: 333.580+/-492.531 χ^2/NDF :17.8/14

Left: 401.062+/-346.492 χ^2/NDF : 30.0/30

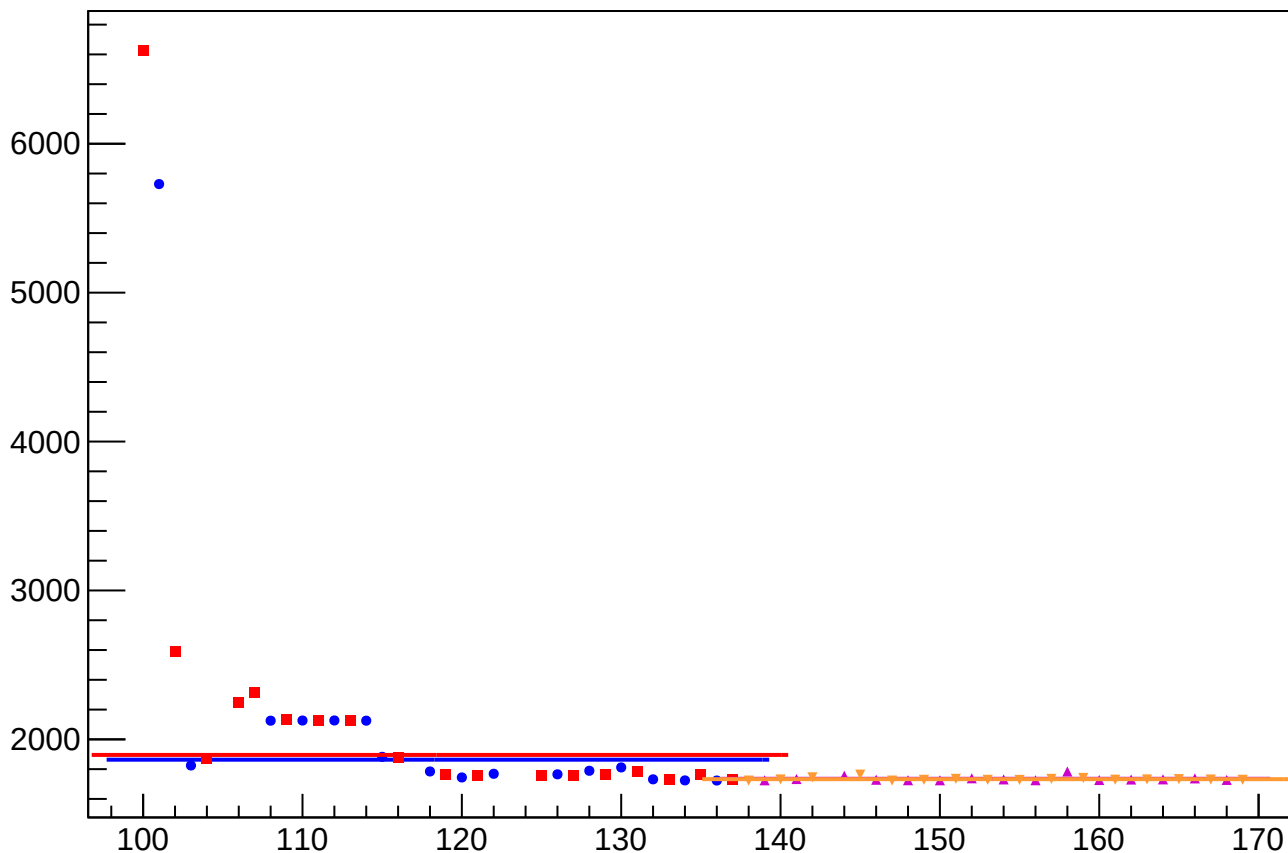
Right: 107.783+/-502.835 χ^2/NDF : 32.0/33

In: 152.218+/-404.533 χ^2/NDF :34.0/30

Out: 459.486+/-402.464 χ^2/NDF :28.0/33

All: 306.640+/-285.314 χ^2/NDF : 62.3/64

cor_asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1863.581+/-0.501 χ^2/NDF : 674665.4/15

Left Out: 1732.739+/-0.345 χ^2/NDF : 728.8/15

Right Out: 1895.491+/-0.504 χ^2/NDF : 259171.7/17

Left In: 1735.241+/-0.348 χ^2/NDF : 1942.8/14

Left: 1733.977+/-0.245 χ^2/NDF : 2697.7/30

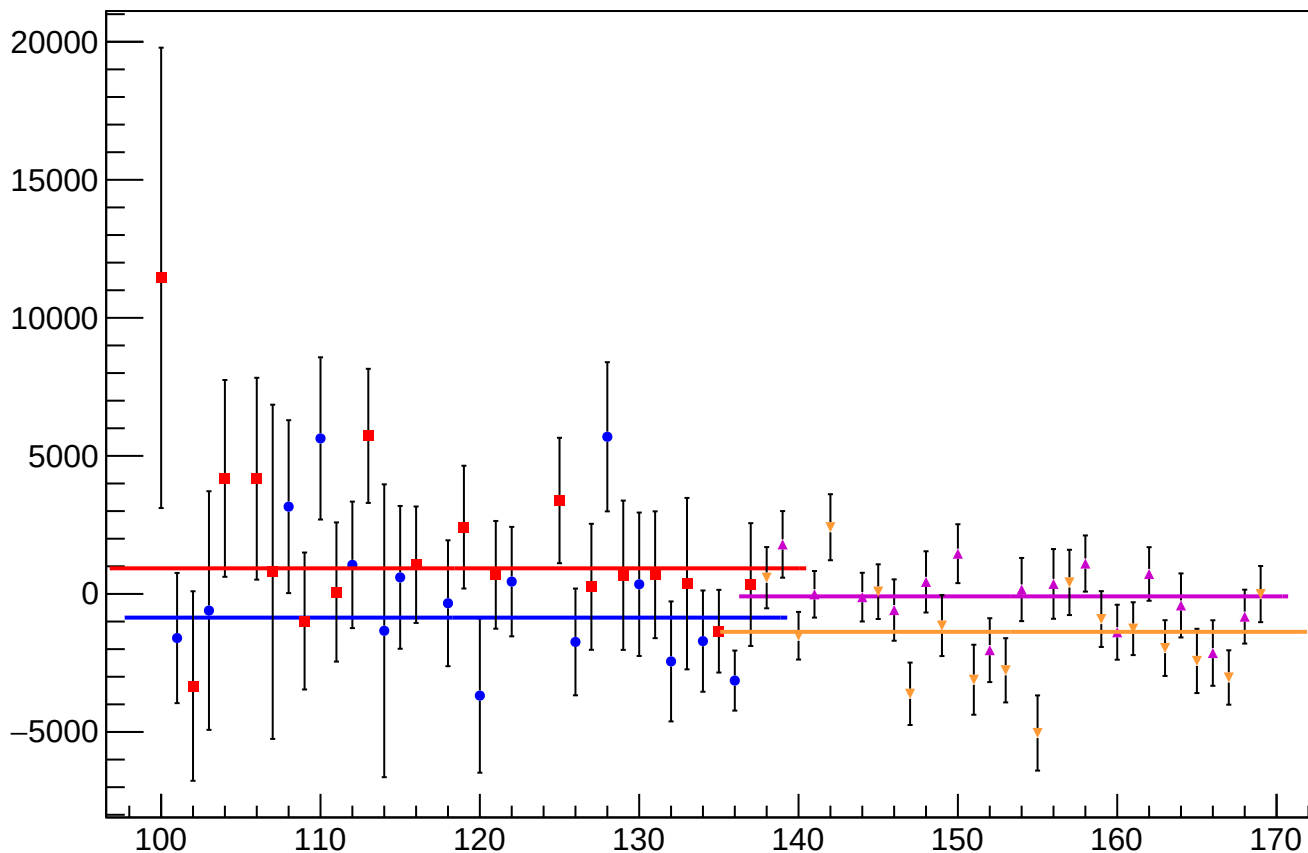
Right: 1879.447+/-0.356 χ^2/NDF : 935850.8/33

In: 1777.004+/-0.286 χ^2/NDF : 720797.3/30

Out: 1784.581+/-0.285 χ^2/NDF : 330896.3/33

All: 1780.812+/-0.202 χ^2/NDF : 1052046.2/64

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -858.115+/-549.748 χ^2/NDF : 20.6/15

Left Out: -1372.857+/-268.388 χ^2/NDF :38.2/15

Right Out: 927.191+/-584.886 χ^2/NDF : 13.5/17

Left In: -88.784+/-271.581 χ^2/NDF :15.4/14

Left: -738.411+/-190.898 χ^2/NDF : 64.9/30

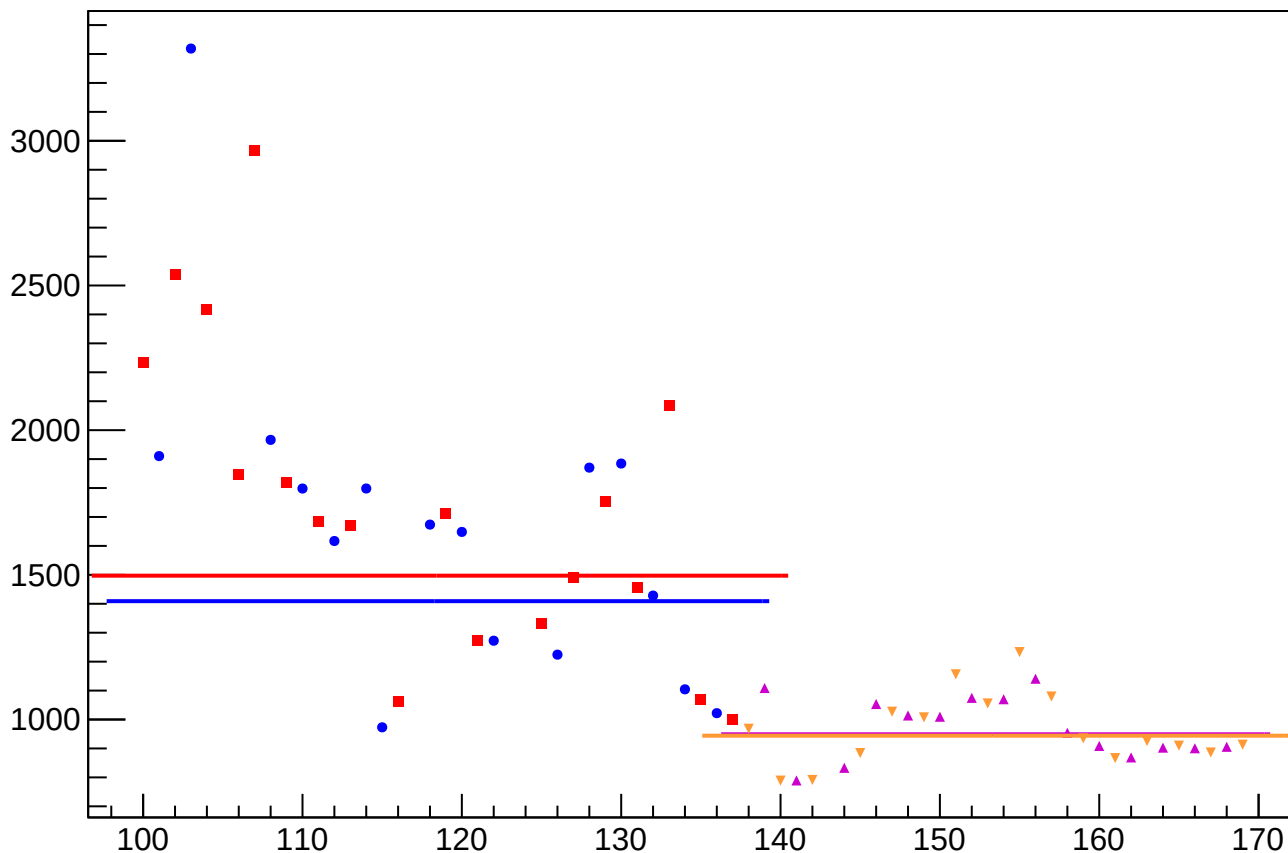
Right: -20.697+/-400.577 χ^2/NDF : 39.1/33

In: -239.704+/-243.490 χ^2/NDF :37.6/30

Out: -972.789+/-243.933 χ^2/NDF :64.5/33

All: -605.580+/-172.330 χ^2/NDF : 106.6/64

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1409.018 $\pm$ 0.389 χ^2 /NDF: 1167065.5/15

Left Out: 944.104 $\pm$ 0.190 χ^2 /NDF: 338206.2/15

Right Out: 1497.149 $\pm$ 0.414 χ^2 /NDF: 1018123.6/17

Left In: 949.007 $\pm$ 0.192 χ^2 /NDF: 291906.3/14

Left: 946.527 $\pm$ 0.135 χ^2 /NDF: 630442.2/30

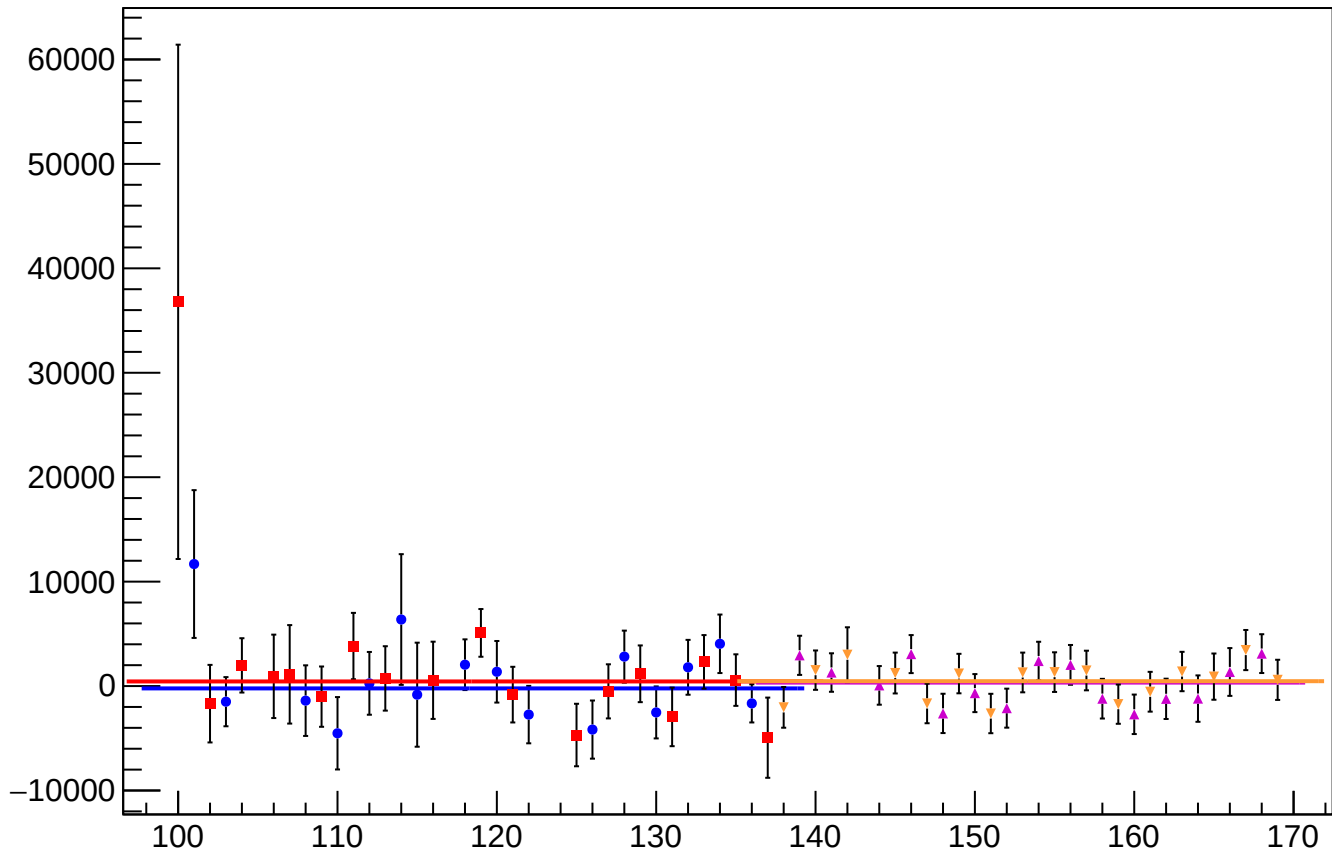
Right: 1450.357 $\pm$ 0.283 χ^2 /NDF: 2209298.3/33

In: 1039.247 $\pm$ 0.172 χ^2 /NDF: 2584622.0/30

Out: 1040.300 $\pm$ 0.172 χ^2 /NDF: 2833460.9/33

All: 1039.773 $\pm$ 0.122 χ^2 /NDF: 5418101.5/64

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -223.754+/-709.151 χ^2/NDF : 15.8/15

Left Out: 467.182+/-487.534 χ^2/NDF :12.2/15

Right Out: 443.022+/-713.098 χ^2/NDF : 15.8/17

Left In: 333.580+/-492.531 χ^2/NDF :17.8/14

Left: 401.062+/-346.492 χ^2/NDF : 30.0/30

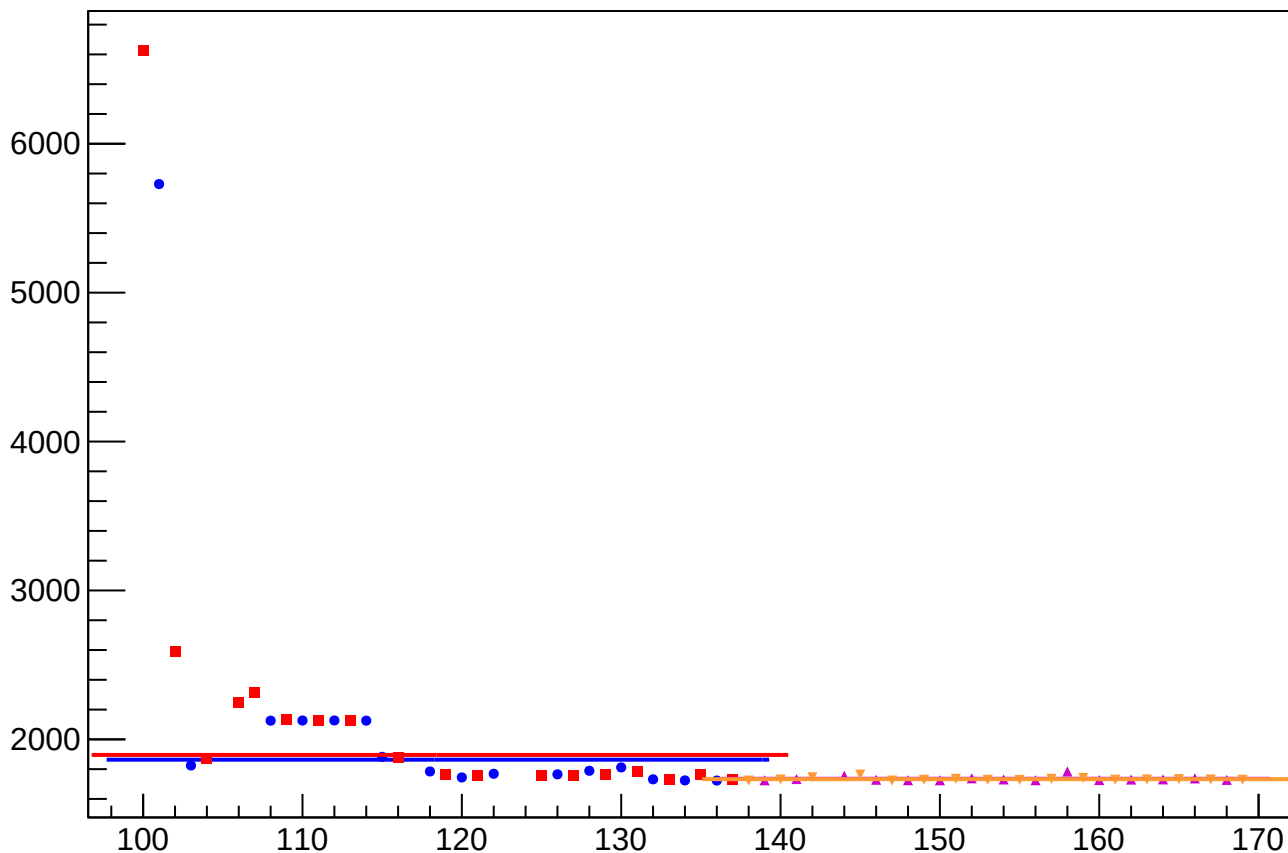
Right: 107.783+/-502.835 χ^2/NDF : 32.0/33

In: 152.218+/-404.533 χ^2/NDF :34.0/30

Out: 459.486+/-402.464 χ^2/NDF :28.0/33

All: 306.640+/-285.314 χ^2/NDF : 62.3/64

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1863.581 ± 0.501 χ^2/NDF : 674665.4/15

Left Out: 1732.739 ± 0.345 χ^2/NDF : 728.8/15

Right Out: 1895.491 ± 0.504 χ^2/NDF : 259171.7/17

Left In: 1735.241 ± 0.348 χ^2/NDF : 1942.8/14

Left: 1733.977 ± 0.245 χ^2/NDF : 2697.7/30

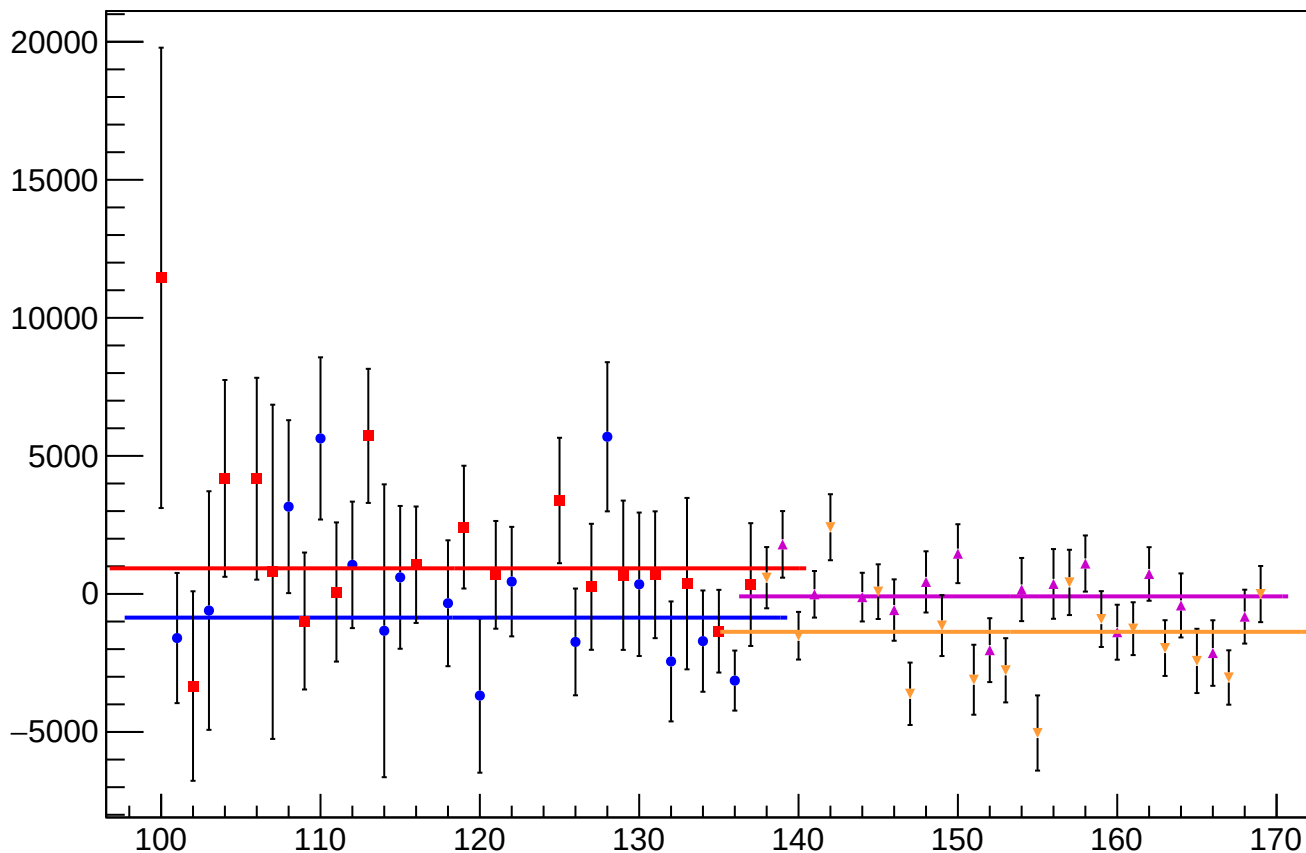
Right: 1879.447 ± 0.356 χ^2/NDF : 935850.8/33

In: 1777.004 ± 0.286 χ^2/NDF : 720797.3/30

Out: 1784.581 ± 0.285 χ^2/NDF : 330896.3/33

All: 1780.812 ± 0.202 χ^2/NDF : 1052046.2/64

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -858.115 $\pm$ 549.748 χ^2 /NDF: 20.6/15

Left Out: -1372.857 $\pm$ 268.388 χ^2 /NDF:38.2/15

Right Out: 927.191 $\pm$ 584.886 χ^2 /NDF: 13.5/17

Left In: -88.784 $\pm$ 271.581 χ^2 /NDF:15.4/14

Left: -738.411 $\pm$ 190.898 χ^2 /NDF: 64.9/30

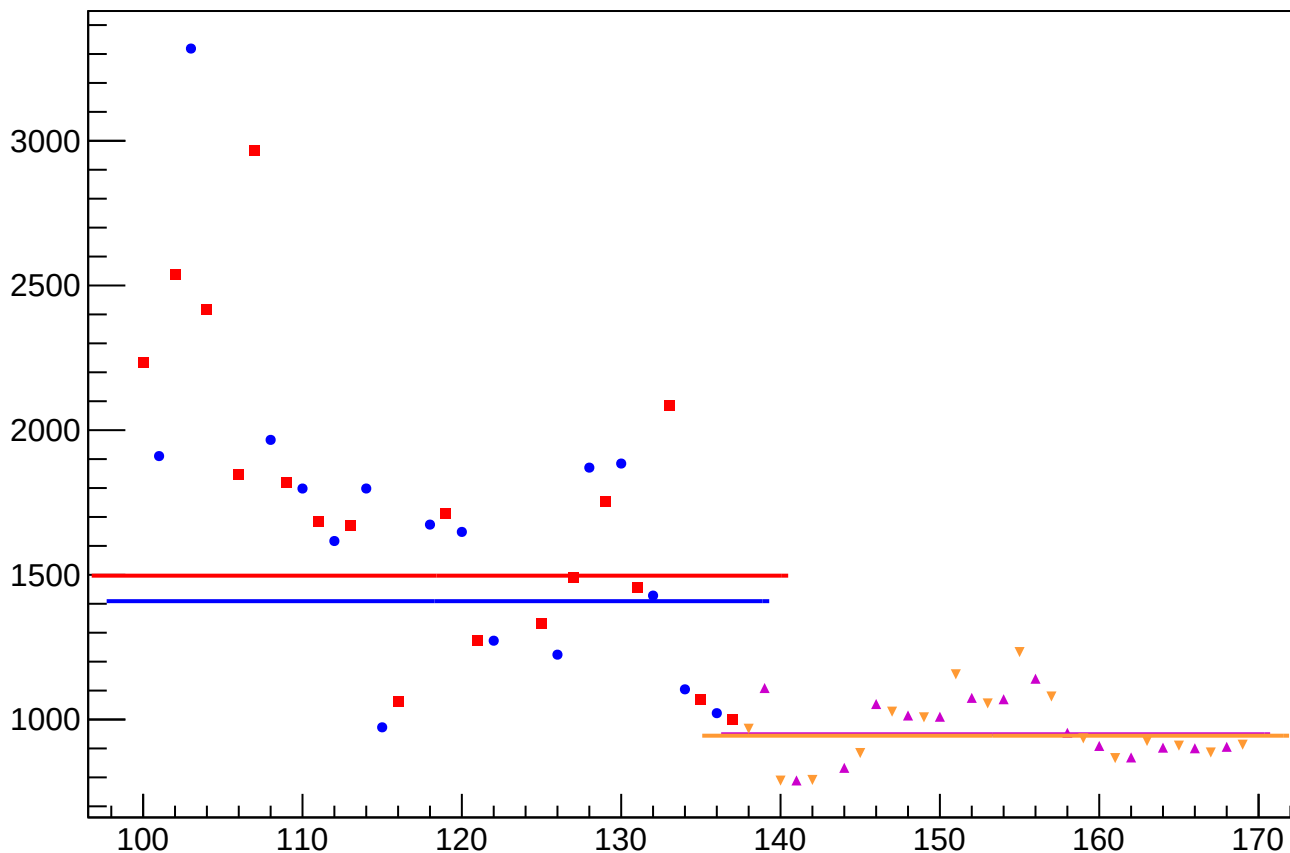
Right: -20.697 $\pm$ 400.577 χ^2 /NDF: 39.1/33

In: -239.704 $\pm$ 243.490 χ^2 /NDF:37.6/30

Out: -972.789 $\pm$ 243.933 χ^2 /NDF:64.5/33

All: -605.580 $\pm$ 172.330 χ^2 /NDF: 106.6/64

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1409.018 $\pm$ 0.389 χ^2 /NDF: 1167065.5/15

Left Out: 944.104 $\pm$ 0.190 χ^2 /NDF: 338206.2/15

Right Out: 1497.149 $\pm$ 0.414 χ^2 /NDF: 1018123.6/17

Left In: 949.007 $\pm$ 0.192 χ^2 /NDF: 291906.3/14

Left: 946.527 $\pm$ 0.135 χ^2 /NDF: 630442.2/30

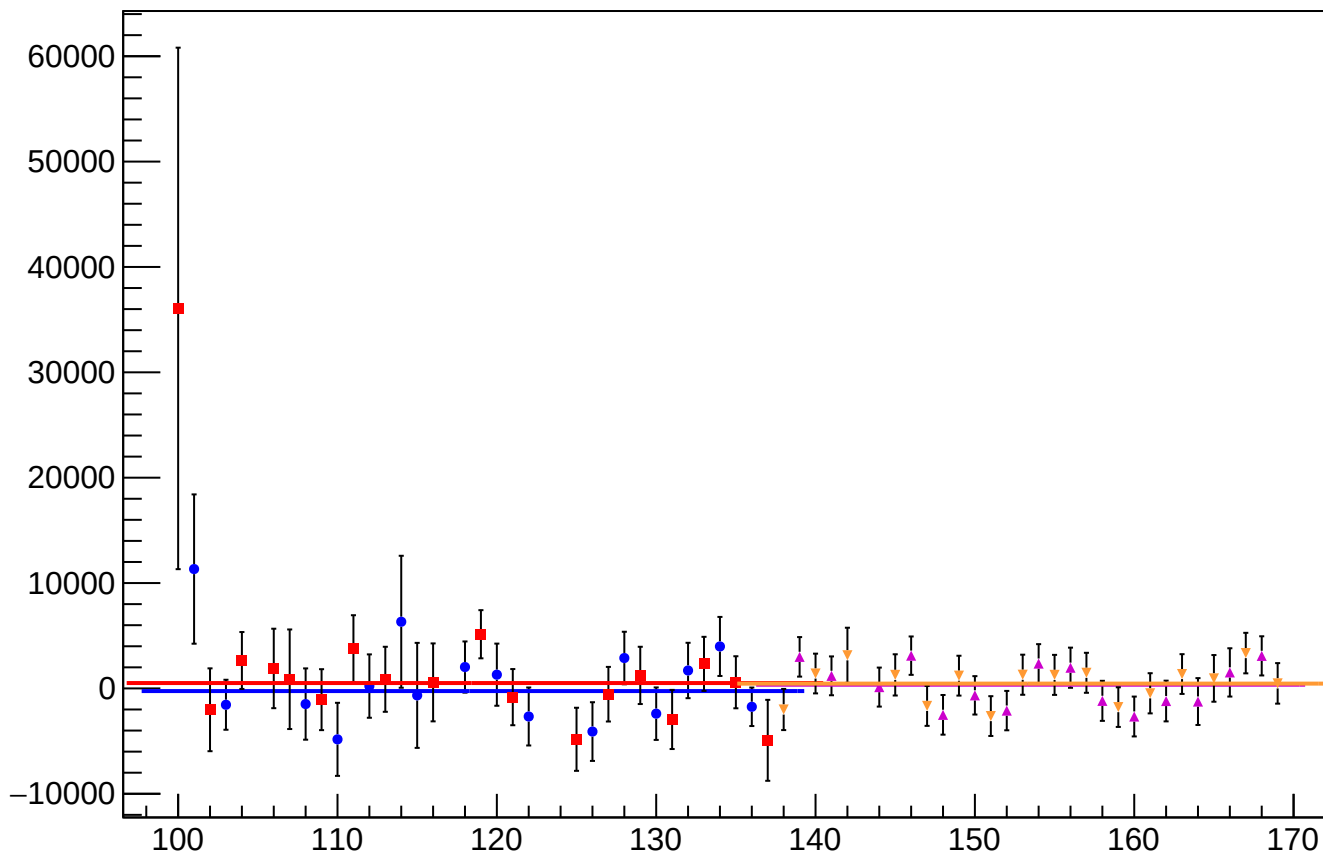
Right: 1450.357 $\pm$ 0.283 χ^2 /NDF: 2209298.3/33

In: 1039.247 $\pm$ 0.172 χ^2 /NDF: 2584622.0/30

Out: 1040.300 $\pm$ 0.172 χ^2 /NDF: 2833460.9/33

All: 1039.773 $\pm$ 0.122 χ^2 /NDF: 5418101.5/64

dit_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -252.024+/-709.973 χ^2/NDF : 15.6/15

Left Out: 456.057+/-487.734 χ^2/NDF : 12.0/15

Right Out: 510.117+/-715.442 χ^2/NDF : 16.4/17

Left In: 350.137+/-492.810 χ^2/NDF : 17.5/14

Left: 403.645+/-346.661 χ^2/NDF : 29.6/30

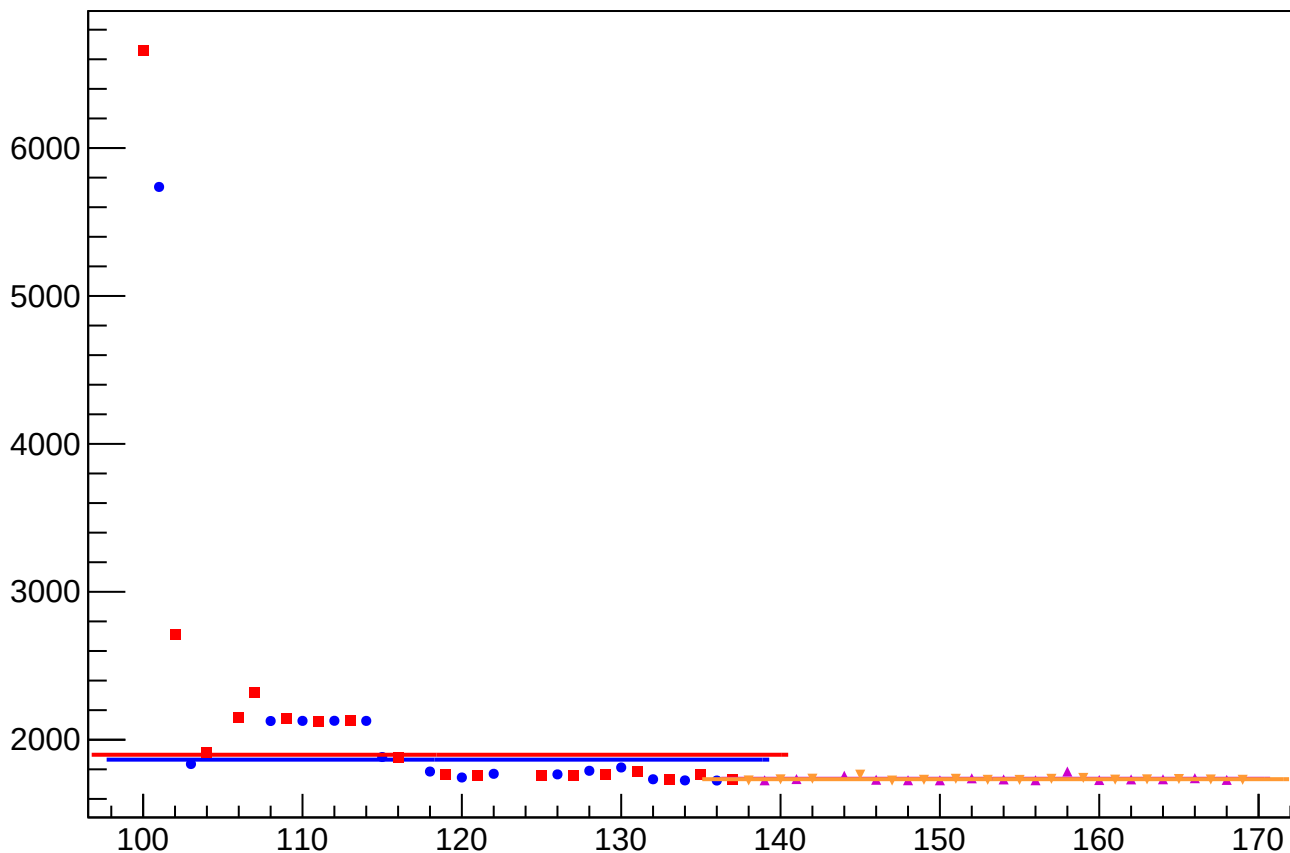
Right: 126.122+/-503.949 χ^2/NDF : 32.6/33

In: 154.344+/-404.840 χ^2/NDF : 33.7/30

Out: 473.209+/-402.997 χ^2/NDF : 28.4/33

All: 314.504+/-285.611 χ^2/NDF : 62.4/64

dit_asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1865.440+/-0.502 χ^2/NDF : 674989.6/15

Left Out: 1733.412+/-0.345 χ^2/NDF : 676.2/15

Right Out: 1898.603+/-0.506 χ^2/NDF : 269110.1/17

Left In: 1736.226+/-0.348 χ^2/NDF : 1936.2/14

Left: 1734.804+/-0.245 χ^2/NDF : 2645.3/30

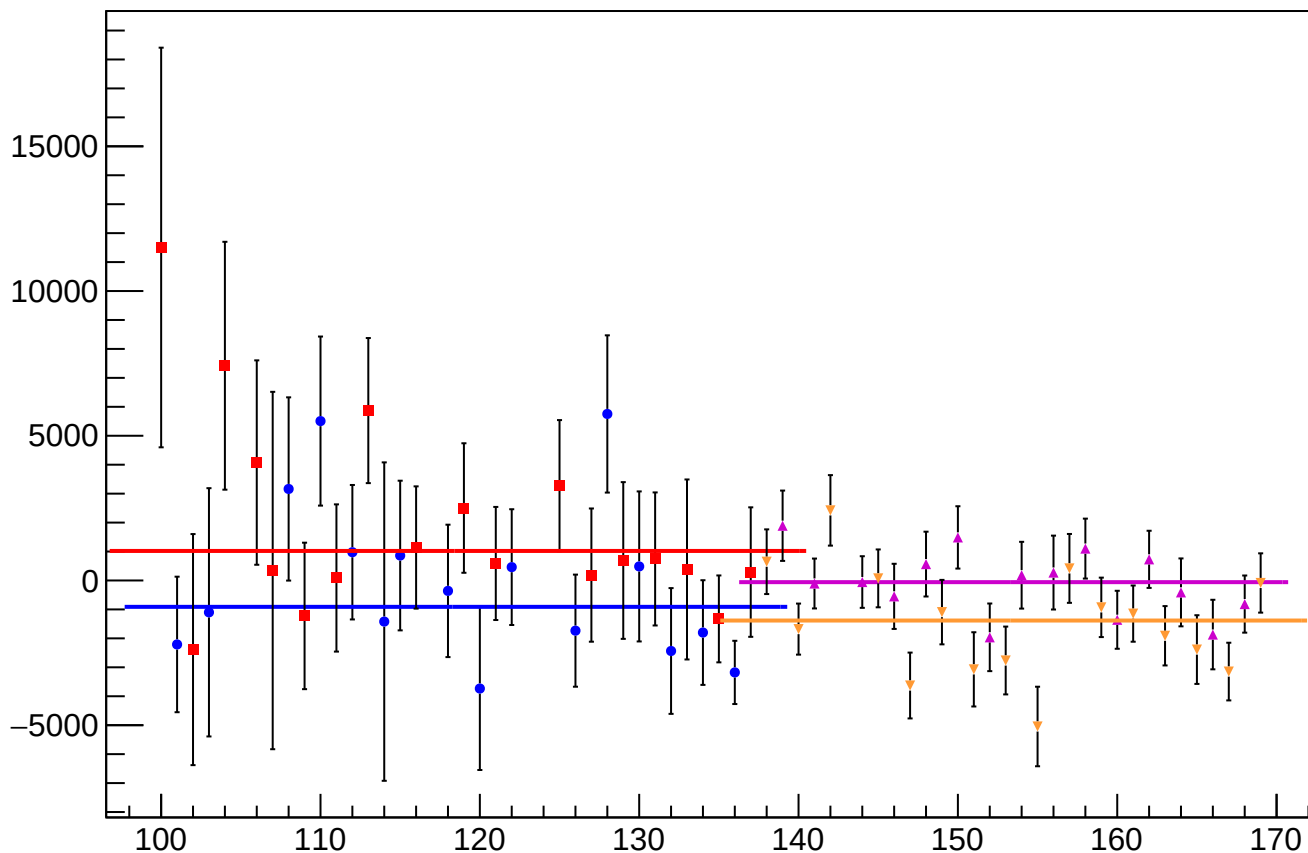
Right: 1881.894+/-0.356 χ^2/NDF : 946264.8/33

In: 1778.240+/-0.286 χ^2/NDF : 721632.3/30

Out: 1785.825+/-0.285 χ^2/NDF : 342579.7/33

All: 1782.050+/-0.202 χ^2/NDF : 1064564.7/64

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -910.955+/-550.836 χ^2/NDF : 21.0/15

Left Out: -1383.882+/-271.732 χ^2/NDF :37.7/15

Right Out: 1020.124+/-591.600 χ^2/NDF : 14.9/17

Left In: -58.031+/-274.916 χ^2/NDF :14.4/14

Left: -728.680+/-193.259 χ^2/NDF : 64.0/30

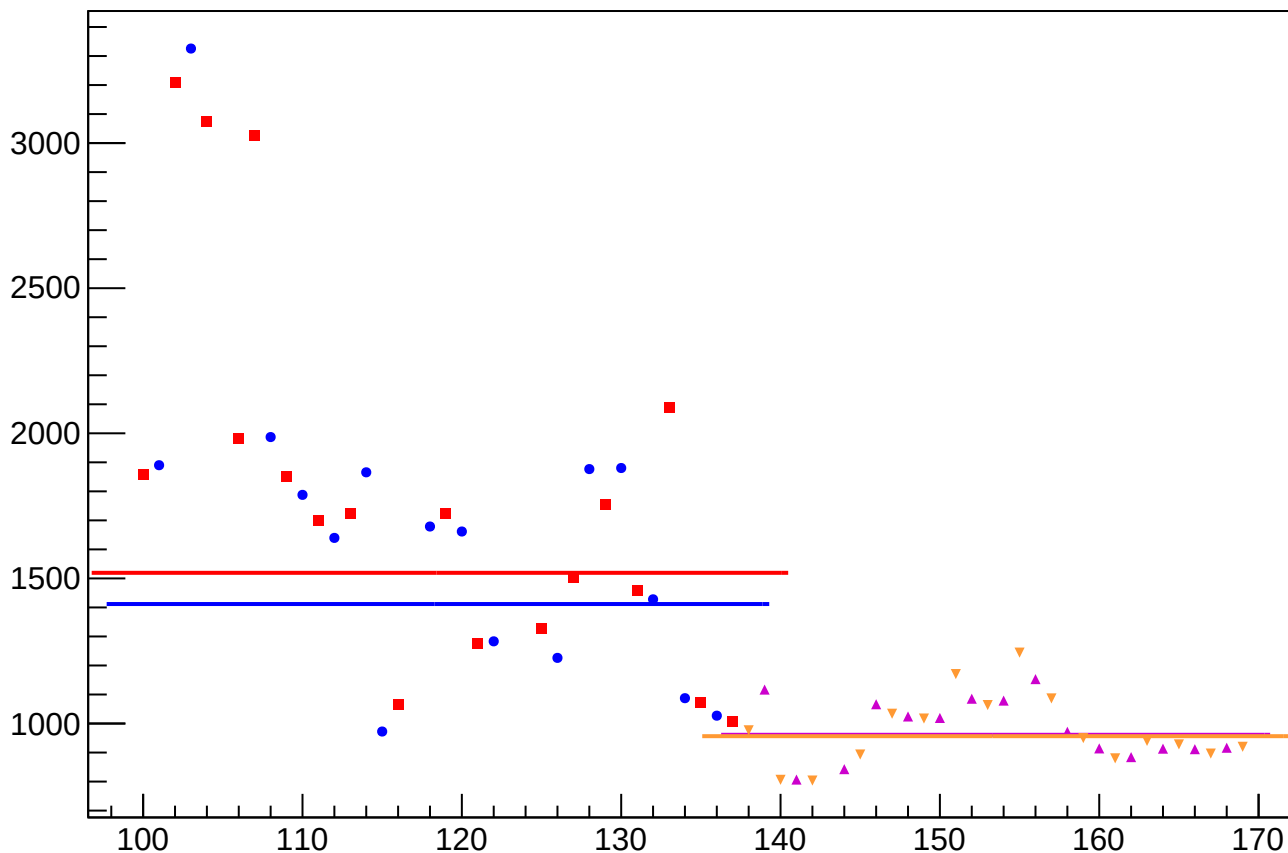
Right: -14.232+/-403.141 χ^2/NDF : 41.6/33

In: -228.119+/-245.982 χ^2/NDF :37.3/30

Out: -965.064+/-246.930 χ^2/NDF :66.3/33

All: -595.174+/-174.270 χ^2/NDF : 108.1/64

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1411.748+/-0.389 χ^2/NDF : 1177745.4/15

Left Out: 956.393+/-0.192 χ^2/NDF : 321501.6/15

Right Out: 1519.305+/-0.418 χ^2/NDF : 1360145.6/17

Left In: 961.171+/-0.194 χ^2/NDF : 278153.6/14

Left: 958.754+/-0.137 χ^2/NDF : 599960.9/30

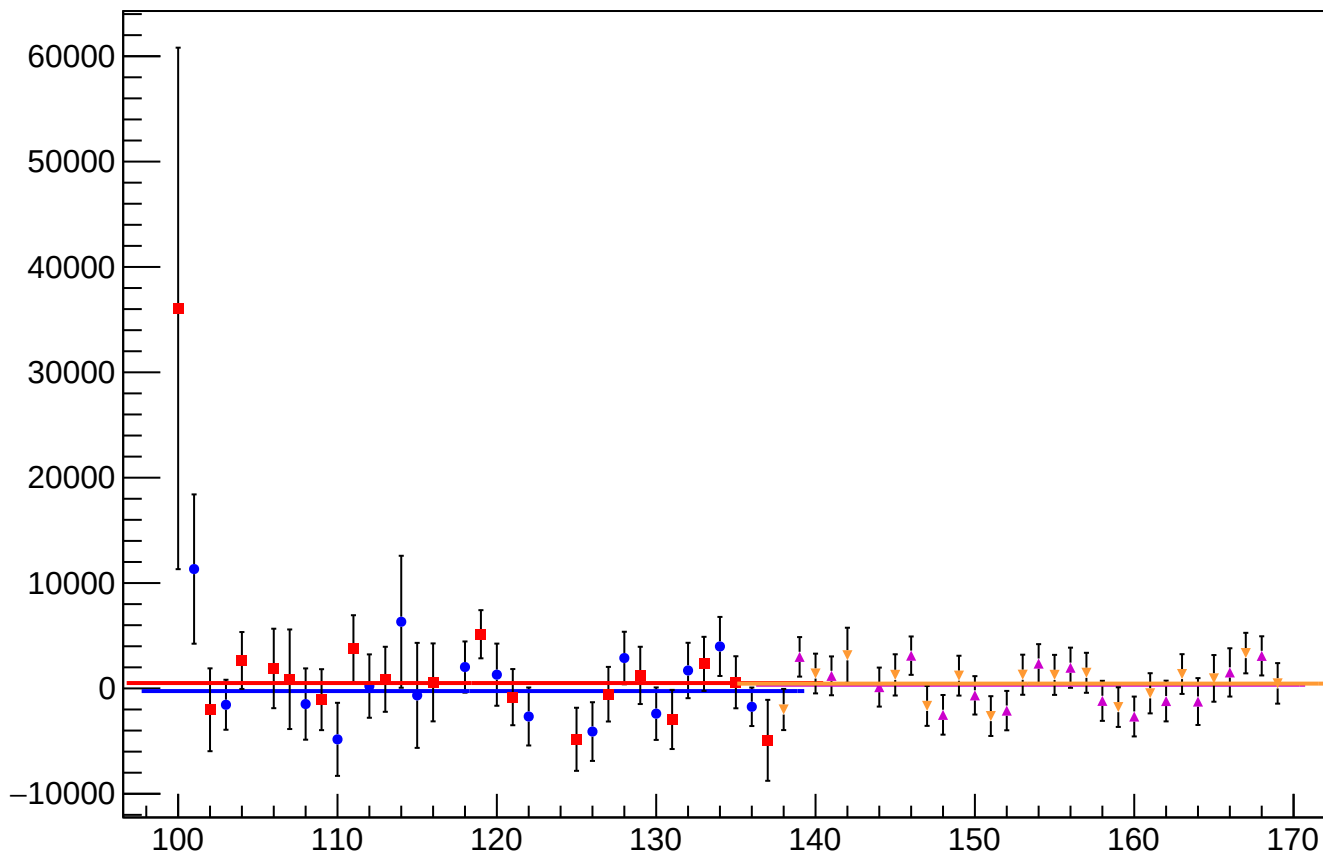
Right: 1461.694+/-0.285 χ^2/NDF : 2573300.6/33

In: 1051.024+/-0.174 χ^2/NDF : 2527243.4/30

Out: 1054.462+/-0.175 χ^2/NDF : 3176920.2/33

All: 1052.736+/-0.123 χ^2/NDF : 5704358.3/64

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: -252.023+/-709.973 χ^2/NDF : 15.6/15

Left Out: 456.056+/-487.734 χ^2/NDF :12.0/15

Right Out: 510.117+/-715.442 χ^2/NDF : 16.4/17

Left In: 350.137+/-492.810 χ^2/NDF :17.5/14

Left: 403.645+/-346.661 χ^2/NDF : 29.6/30

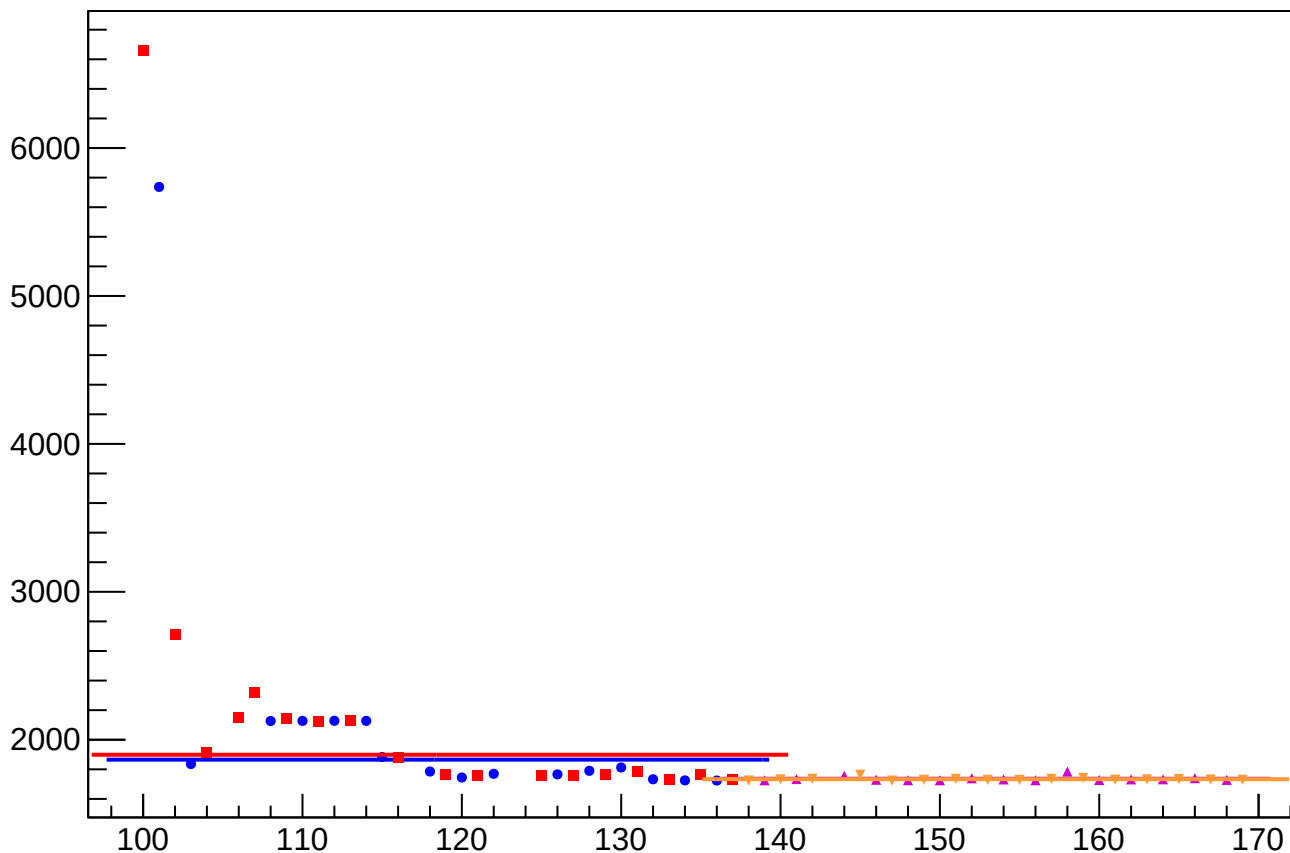
Right: 126.122+/-503.949 χ^2/NDF : 32.6/33

In: 154.344+/-404.840 χ^2/NDF :33.7/30

Out: 473.209+/-402.997 χ^2/NDF :28.4/33

All: 314.504+/-285.611 χ^2/NDF : 62.4/64

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1865.440+/-0.502 χ^2/NDF : 674989.6/15

Left Out: 1733.412+/-0.345 χ^2/NDF : 676.2/15

Right Out: 1898.603+/-0.506 χ^2/NDF : 269109.9/17

Left In: 1736.226+/-0.348 χ^2/NDF : 1936.2/14

Left: 1734.804+/-0.245 χ^2/NDF : 2645.3/30

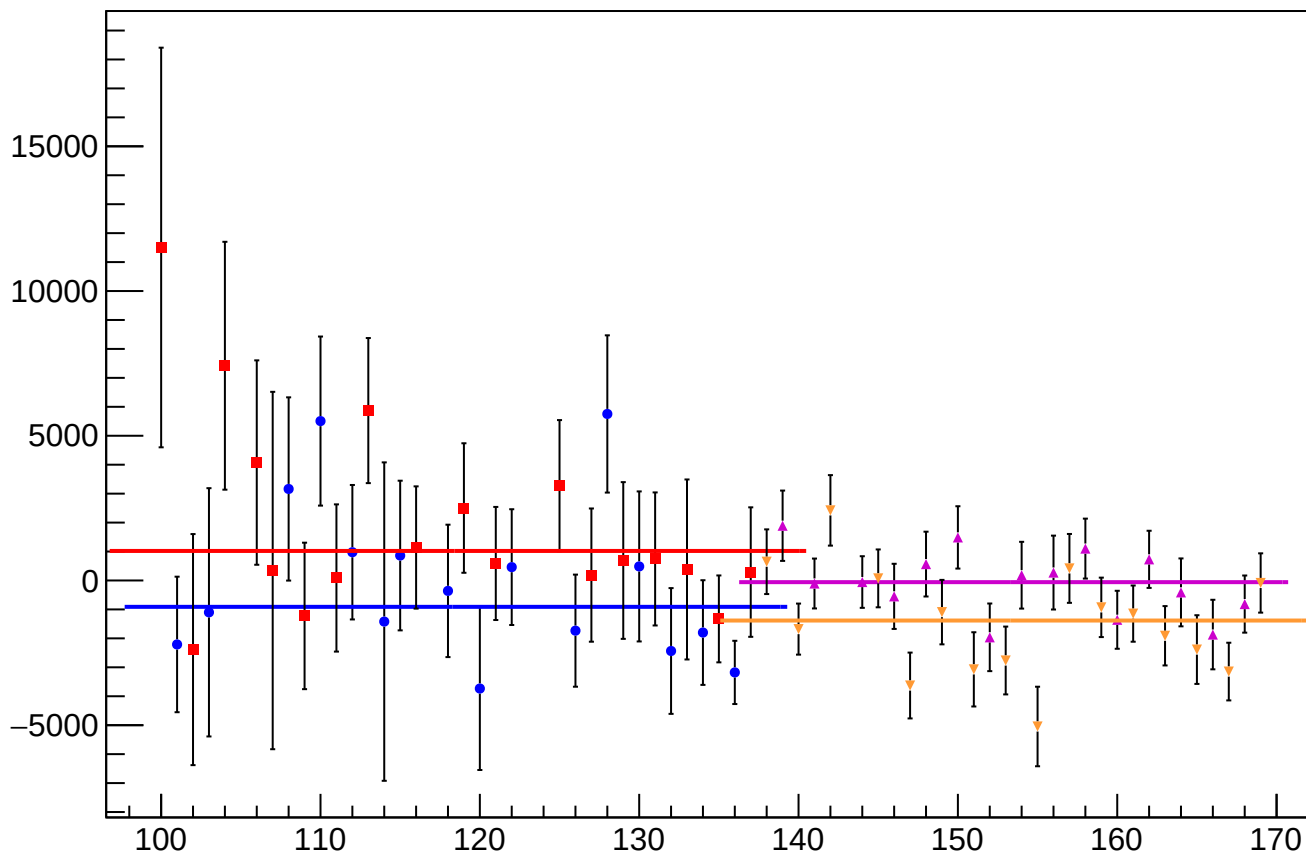
Right: 1881.894+/-0.356 χ^2/NDF : 946264.6/33

In: 1778.240+/-0.286 χ^2/NDF : 721632.3/30

Out: 1785.825+/-0.285 χ^2/NDF : 342579.4/33

All: 1782.050+/-0.202 χ^2/NDF : 1064564.4/64

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -910.950+/-550.835 χ^2/NDF : 21.0/15

Left Out: -1383.880+/-271.732 χ^2/NDF :37.7/15

Right Out: 1020.123+/-591.599 χ^2/NDF : 14.9/17

Left In: -58.034+/-274.916 χ^2/NDF :14.4/14

Left: -728.680+/-193.259 χ^2/NDF : 64.0/30

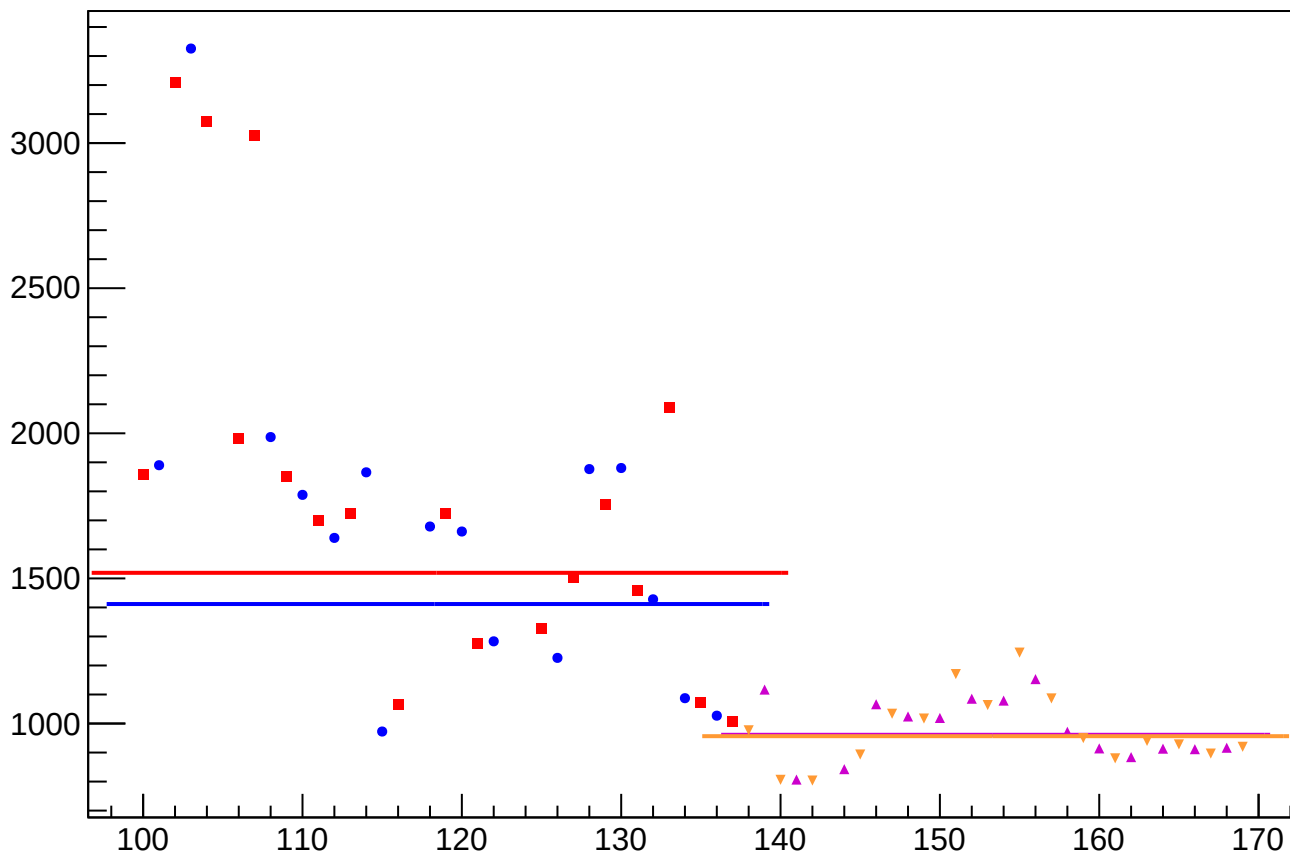
Right: -14.230+/-403.141 χ^2/NDF : 41.6/33

In: -228.120+/-245.982 χ^2/NDF :37.3/30

Out: -965.061+/-246.930 χ^2/NDF :66.3/33

All: -595.174+/-174.270 χ^2/NDF : 108.1/64

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1411.745+/-0.389 χ^2/NDF : 1177746.1/15

Left Out: 956.393+/-0.192 χ^2/NDF : 321510.9/15

Right Out: 1519.302+/-0.418 χ^2/NDF : 1360150.0/17

Left In: 961.171+/-0.194 χ^2/NDF : 278161.8/14

Left: 958.754+/-0.137 χ^2/NDF : 599978.4/30

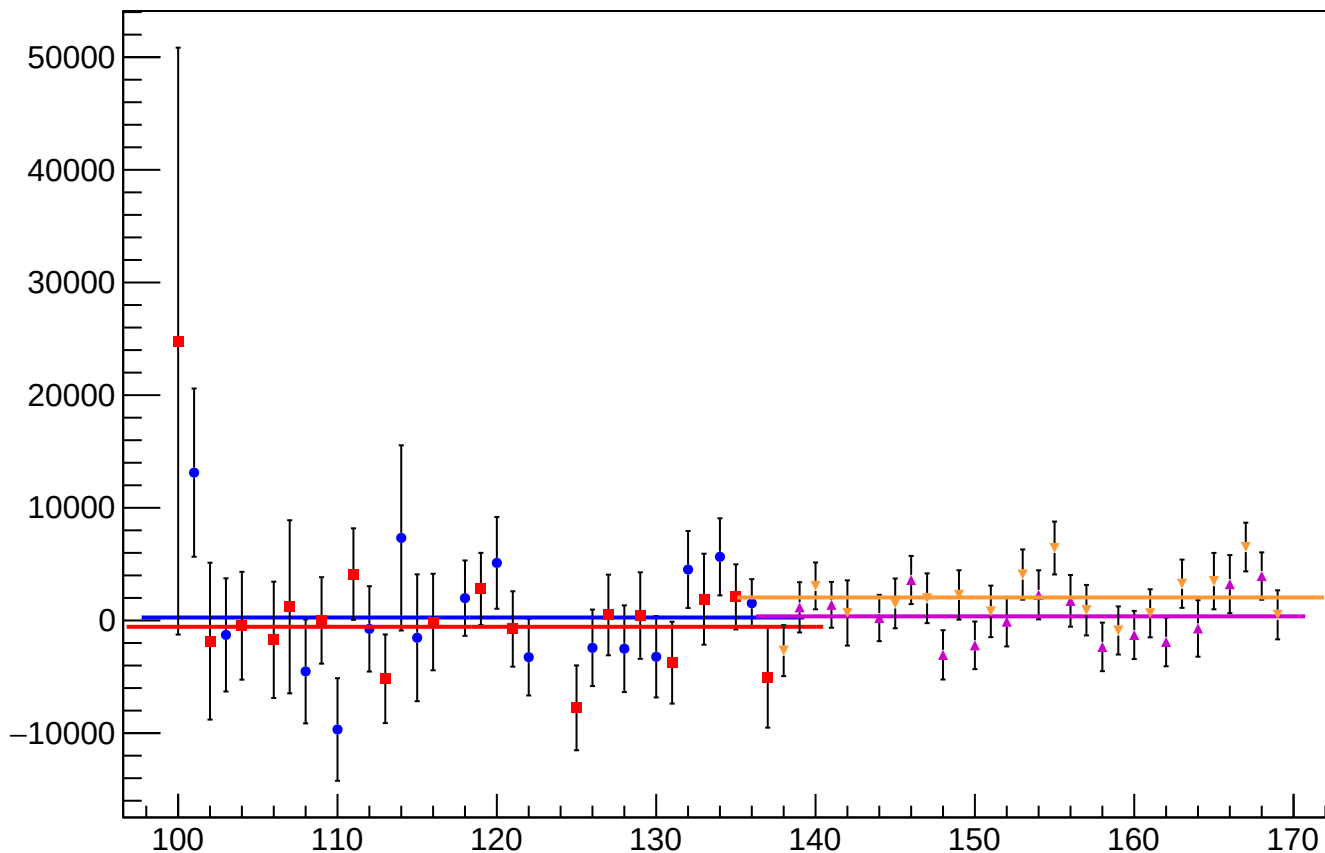
Right: 1461.691+/-0.285 χ^2/NDF : 2573306.2/33

In: 1051.023+/-0.174 χ^2/NDF : 2527241.2/30

Out: 1054.461+/-0.175 χ^2/NDF : 3176926.4/33

All: 1052.736+/-0.123 χ^2/NDF : 5704362.2/64

asym_us_dd_at1lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 264.383 $\pm$ 941.979 χ^2 /NDF: 19.0/15

Left Out: 2042.622 $\pm$ 560.900 χ^2 /NDF:17.5/15

Right Out: -560.962 $\pm$ 962.943 χ^2 /NDF: 11.7/17

Left In: 365.405 $\pm$ 565.891 χ^2 /NDF:15.4/14

Left: 1211.442 $\pm$ 398.369 χ^2 /NDF: 37.3/30

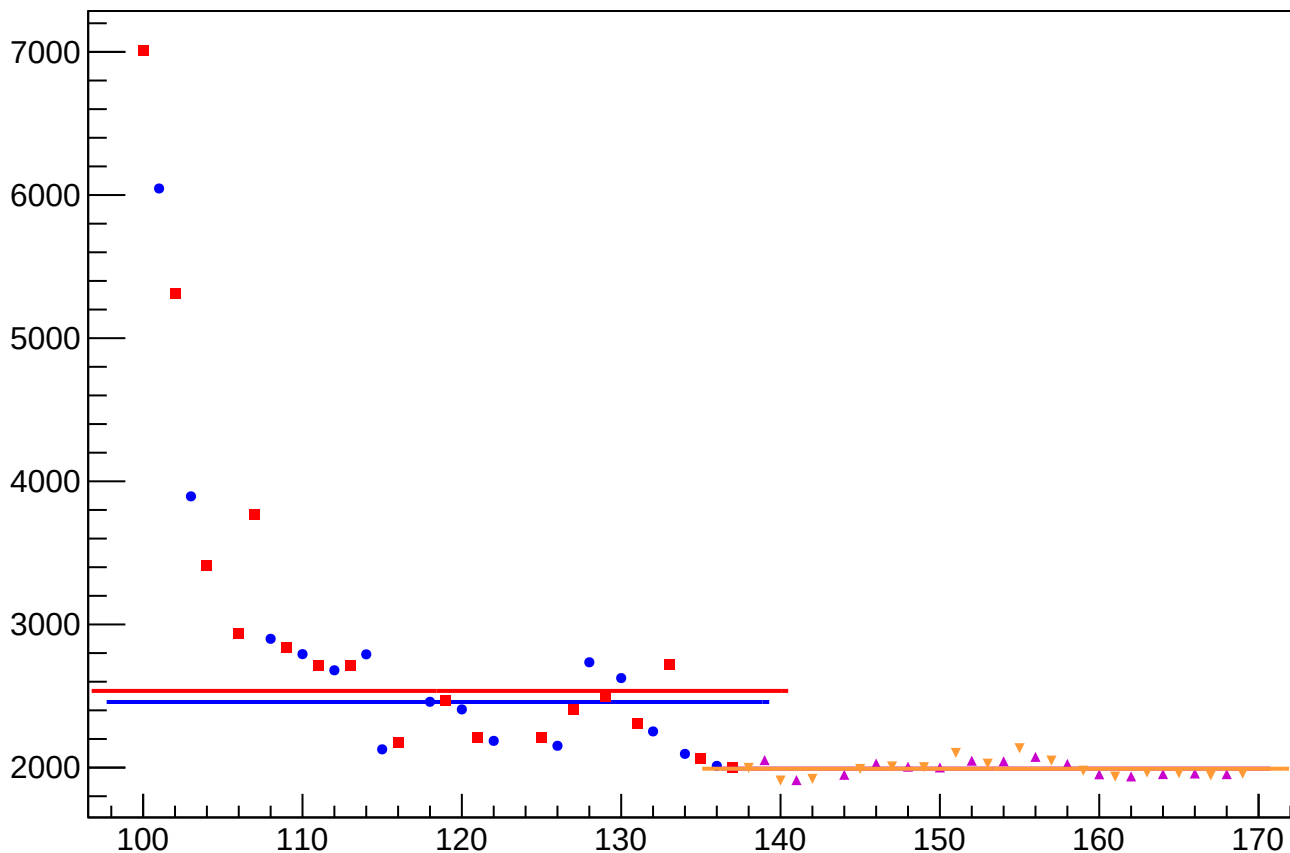
Right: -139.208 $\pm$ 673.369 χ^2 /NDF: 31.2/33

In: 338.615 $\pm$ 485.088 χ^2 /NDF:34.4/30

Out: 1383.042 $\pm$ 484.673 χ^2 /NDF:34.7/33

All: 861.275 $\pm$ 342.862 χ^2 /NDF: 71.4/64

asym_us_dd_at1lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 2458.332 $\pm$ 0.666 χ^2 /NDF: 832888.7/15

Left Out: 1992.264 $\pm$ 0.397 χ^2 /NDF:21850.5/15

Right Out: 2535.782 $\pm$ 0.681 χ^2 /NDF: 673337.1/17

Left In: 1992.909 $\pm$ 0.400 χ^2 /NDF:14925.1/14

Left: 1992.583 $\pm$ 0.282 χ^2 /NDF: 36776.8/30

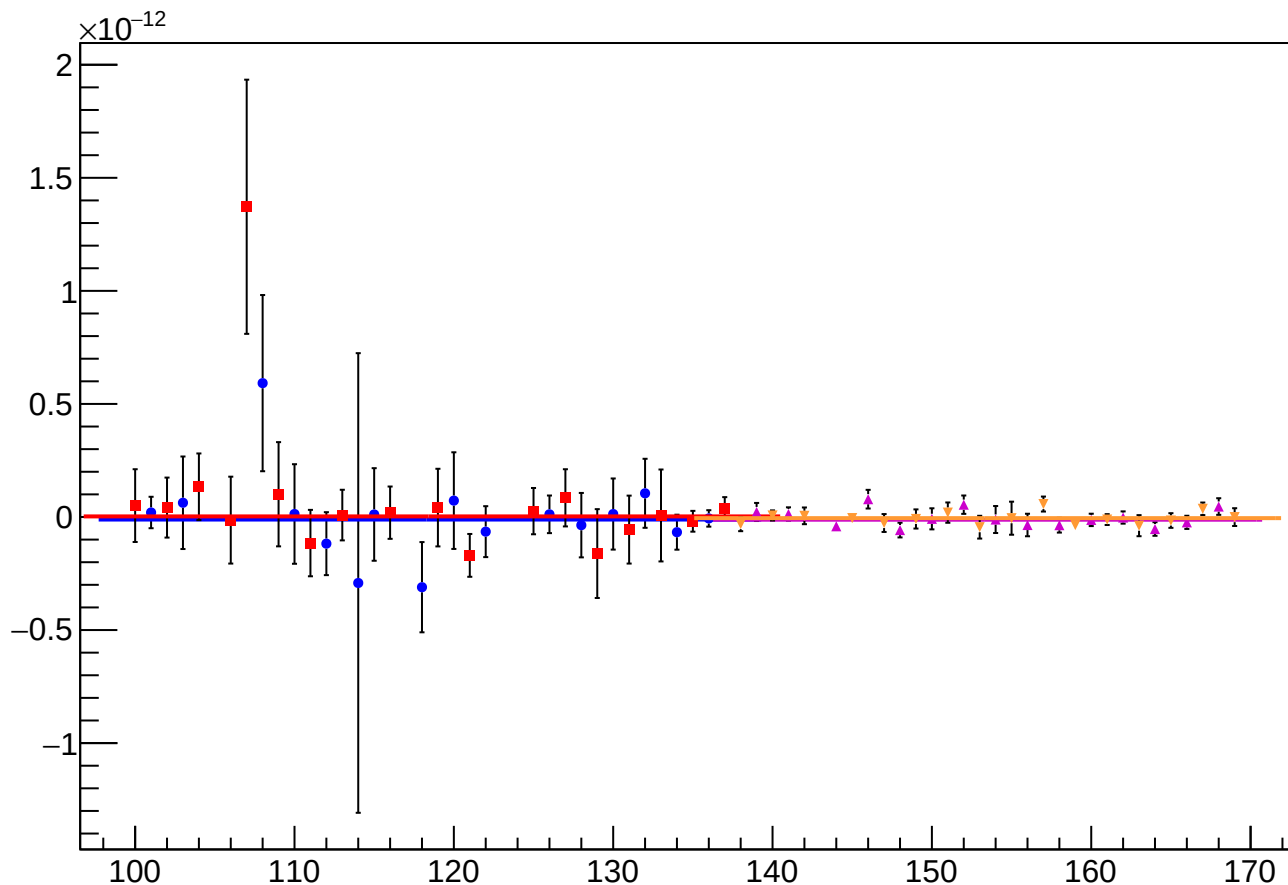
Right: 2496.205 $\pm$ 0.476 χ^2 /NDF: 1512837.3/33

In: 2116.335 $\pm$ 0.343 χ^2 /NDF:1206584.4/30

Out: 2129.957 $\pm$ 0.343 χ^2 /NDF:1170945.5/33

All: 2123.152 $\pm$ 0.242 χ^2 /NDF: 2378319.2/64

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 7.3/15

Left Out: -0.000+/-0.000 χ^2/NDF :10.6/15

Right Out: 0.000+/-0.000 χ^2/NDF : 13.2/17

Left In: -0.000+/-0.000 χ^2/NDF :18.3/14

Left: -0.000+/-0.000 χ^2/NDF : 29.3/30

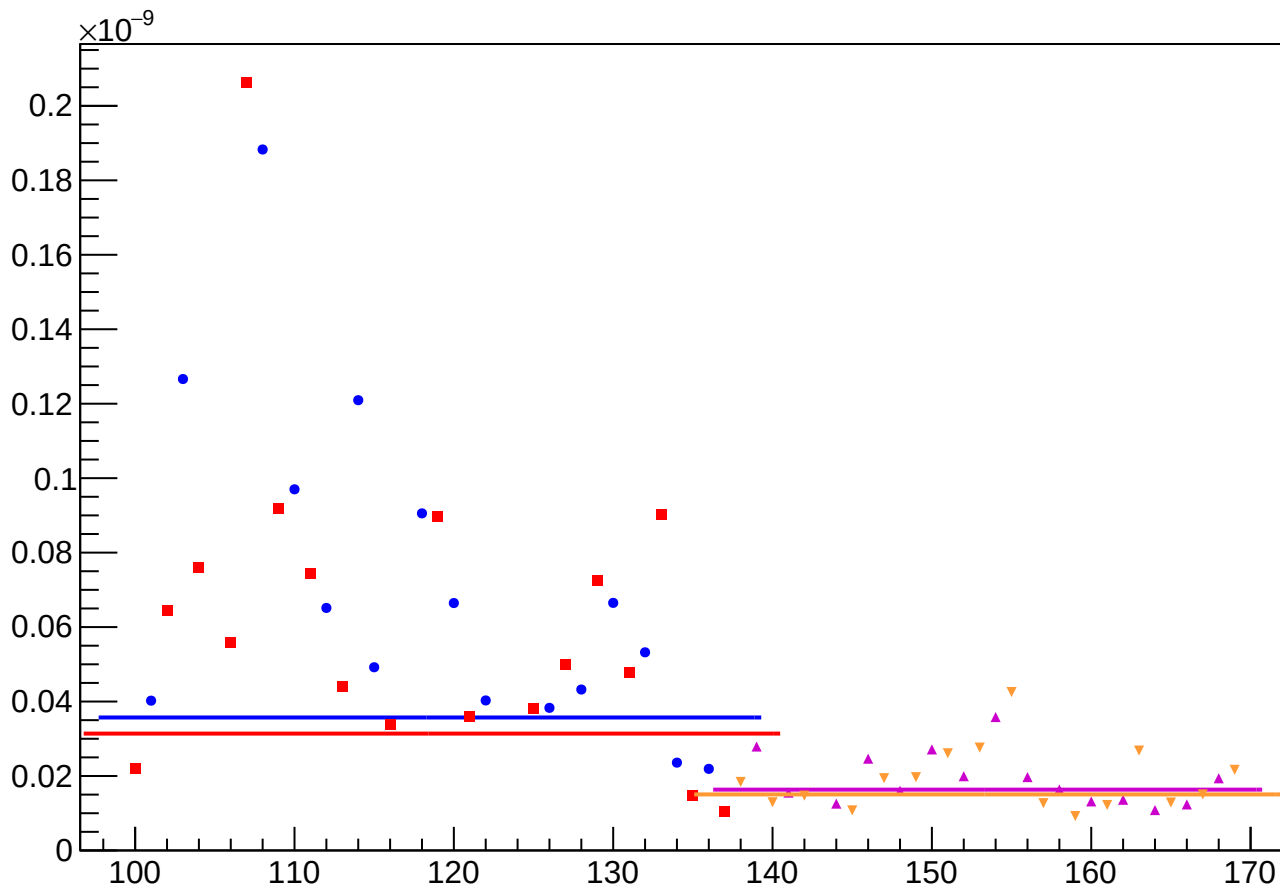
Right: -0.000+/-0.000 χ^2/NDF : 20.7/33

In: -0.000+/-0.000 χ^2/NDF :25.6/30

Out: -0.000+/-0.000 χ^2/NDF :24.0/33

All: -0.000+/-0.000 χ^2/NDF : 50.1/64

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1620217.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :1059990.0/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2068272.1/17

Left In: 0.000+/-0.000 χ^2/NDF :824913.2/14

Left: 0.000+/-0.000 χ^2/NDF : 1909610.7/30

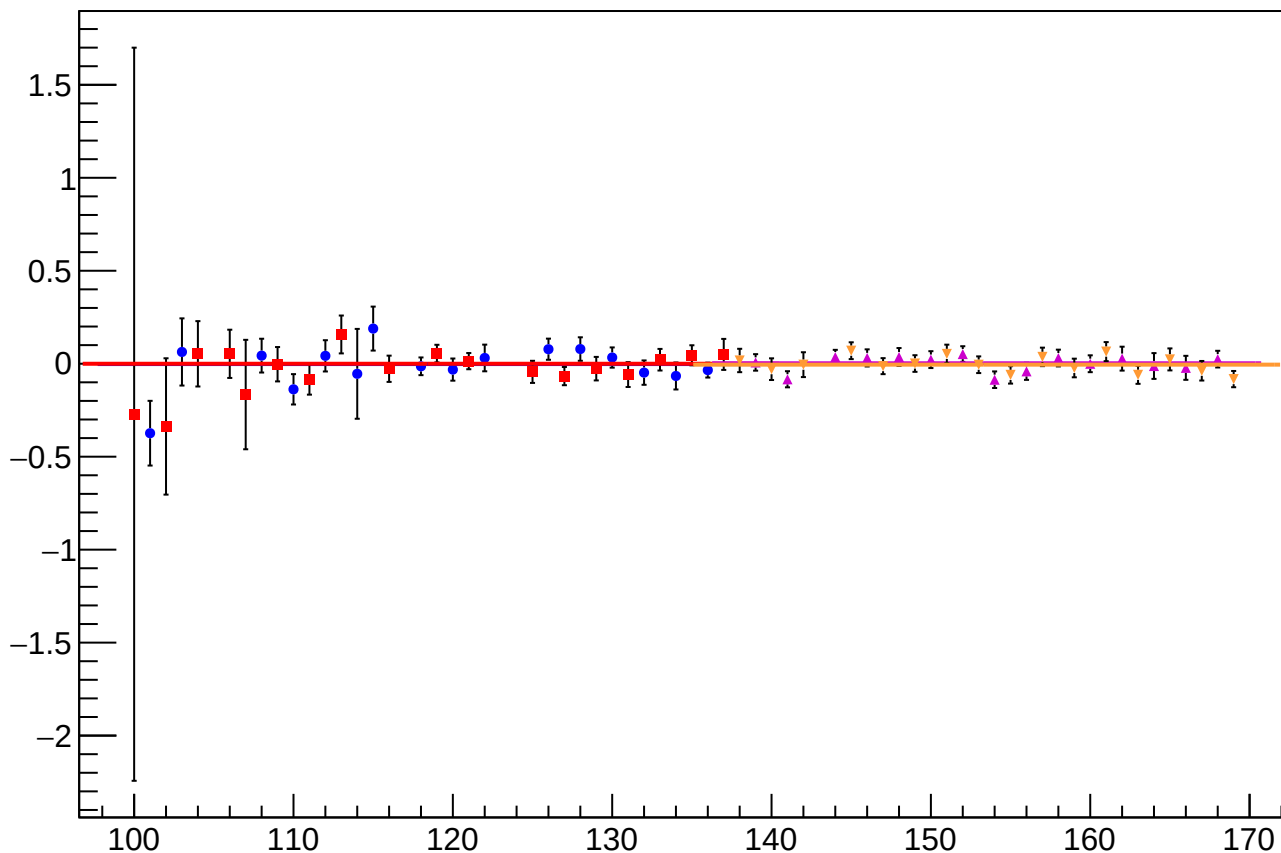
Right: 0.000+/-0.000 χ^2/NDF : 3719751.0/33

In: 0.000+/-0.000 χ^2/NDF :3560017.4/30

Out: 0.000+/-0.000 χ^2/NDF :3941934.7/33

All: 0.000+/-0.000 χ^2/NDF : 7555327.5/64

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.017 $\chi^2/\text{NDF}: 17.1/15$

Left Out: -0.005 ± 0.012 $\chi^2/\text{NDF}: 13.6/15$

Right Out: -0.000 ± 0.017 $\chi^2/\text{NDF}: 10.9/17$

Left In: 0.002 ± 0.012 $\chi^2/\text{NDF}: 12.9/14$

Left: -0.001 ± 0.009 $\chi^2/\text{NDF}: 26.7/30$

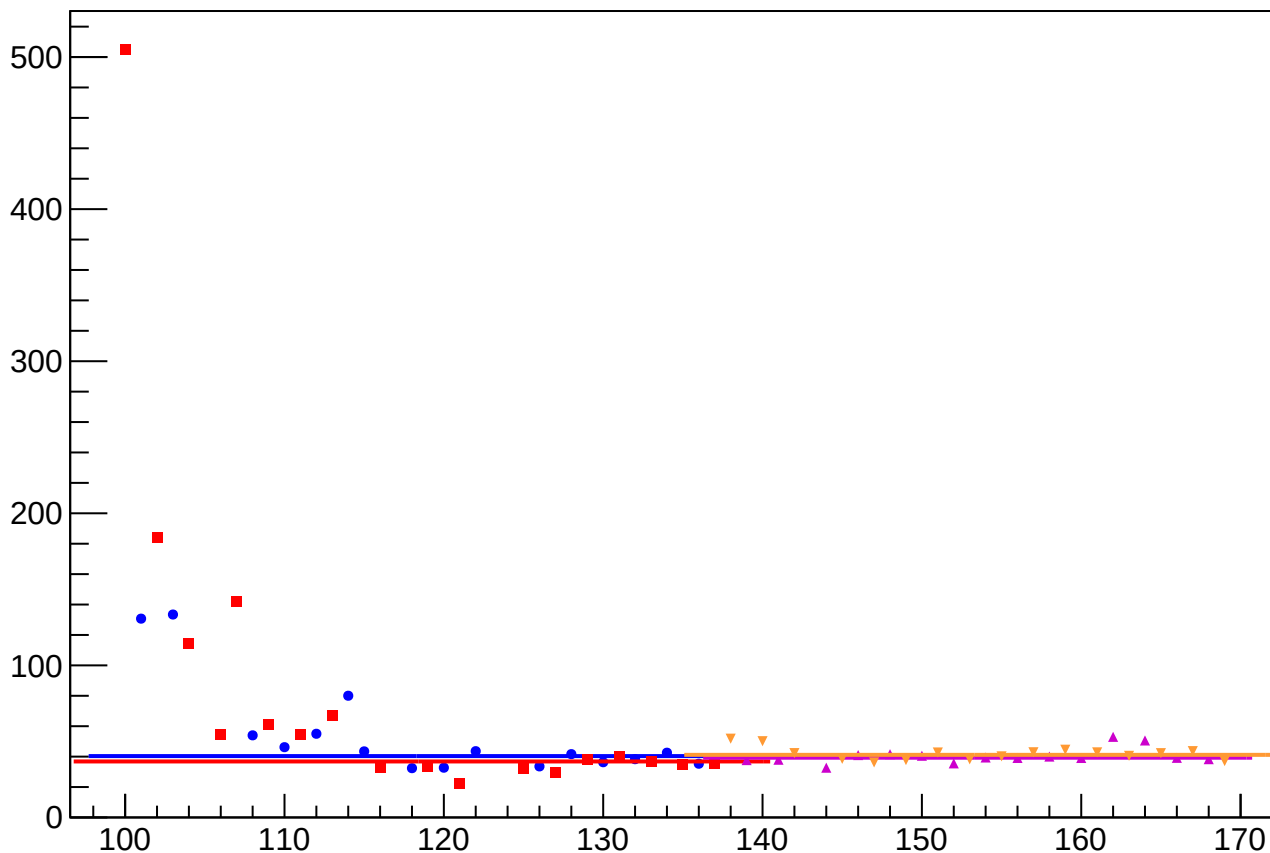
Right: -0.001 ± 0.012 $\chi^2/\text{NDF}: 28.0/33$

In: 0.001 ± 0.010 $\chi^2/\text{NDF}: 30.1/30$

Out: -0.003 ± 0.010 $\chi^2/\text{NDF}: 24.6/33$

All: -0.001 ± 0.007 $\chi^2/\text{NDF}: 54.7/64$

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 40.352 $\pm$ 0.012 χ^2 /NDF: 1410137.1/15

Left Out: 41.167 $\pm$ 0.009 χ^2 /NDF: 198258.0/15

Right Out: 36.825 $\pm$ 0.012 χ^2 /NDF: 1837124.6/17

Left In: 39.289 $\pm$ 0.009 χ^2 /NDF: 232240.5/14

Left: 40.203 $\pm$ 0.006 χ^2 /NDF: 453800.7/30

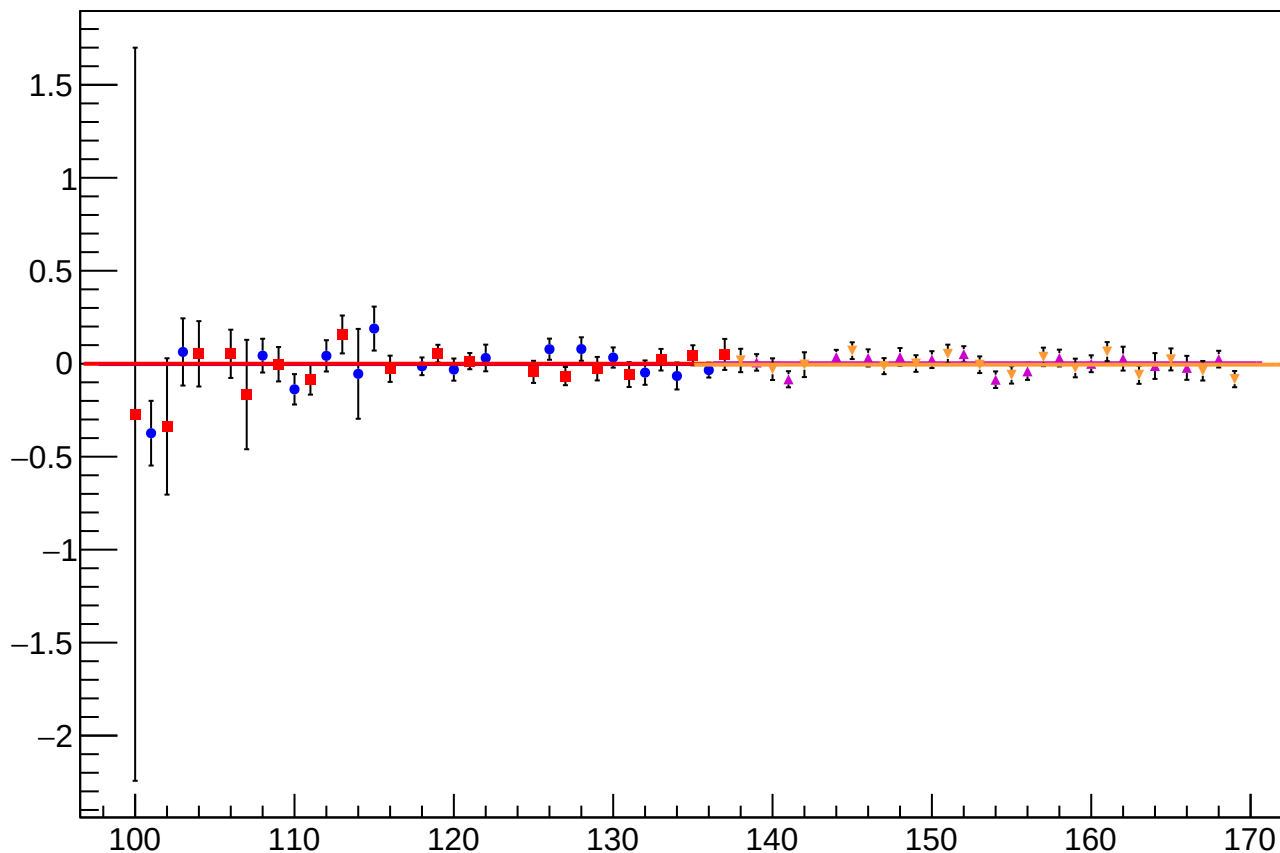
Right: 38.545 $\pm$ 0.008 χ^2 /NDF: 3290942.4/33

In: 39.646 $\pm$ 0.007 χ^2 /NDF: 1647520.0/30

Out: 39.610 $\pm$ 0.007 χ^2 /NDF: 2122448.2/33

All: 39.628 $\pm$ 0.005 χ^2 /NDF: 3769981.3/64

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.017 $\chi^2/\text{NDF}: 17.1/15$

Left Out: -0.005 ± 0.012 $\chi^2/\text{NDF}: 13.6/15$

Right Out: -0.000 ± 0.017 $\chi^2/\text{NDF}: 10.9/17$

Left In: 0.002 ± 0.012 $\chi^2/\text{NDF}: 12.9/14$

Left: -0.001 ± 0.009 $\chi^2/\text{NDF}: 26.7/30$

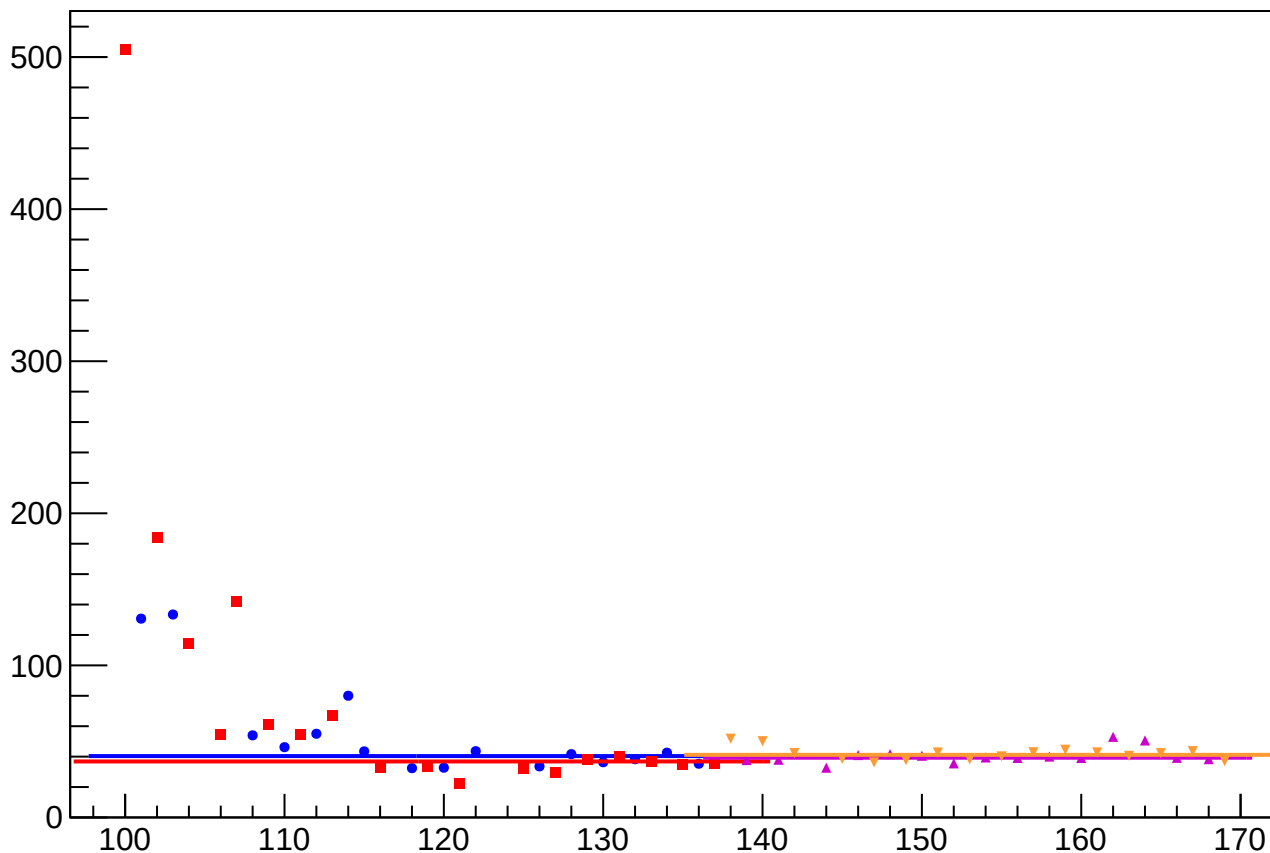
Right: -0.001 ± 0.012 $\chi^2/\text{NDF}: 28.0/33$

In: 0.001 ± 0.010 $\chi^2/\text{NDF}: 30.1/30$

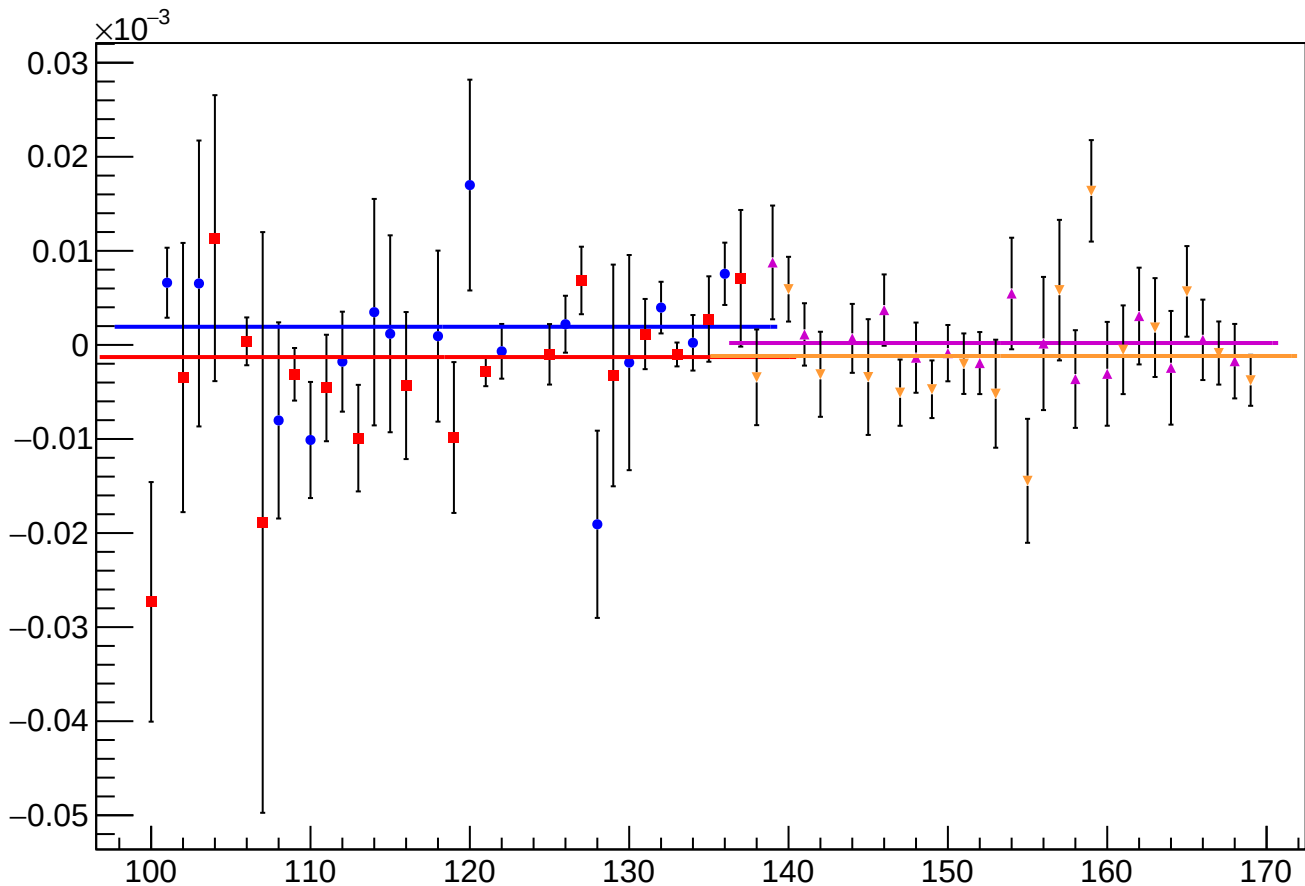
Out: -0.003 ± 0.010 $\chi^2/\text{NDF}: 24.6/33$

All: -0.001 ± 0.007 $\chi^2/\text{NDF}: 54.7/64$

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 17.9/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:26.7/15

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 18.9/17

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:6.1/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 33.7/30

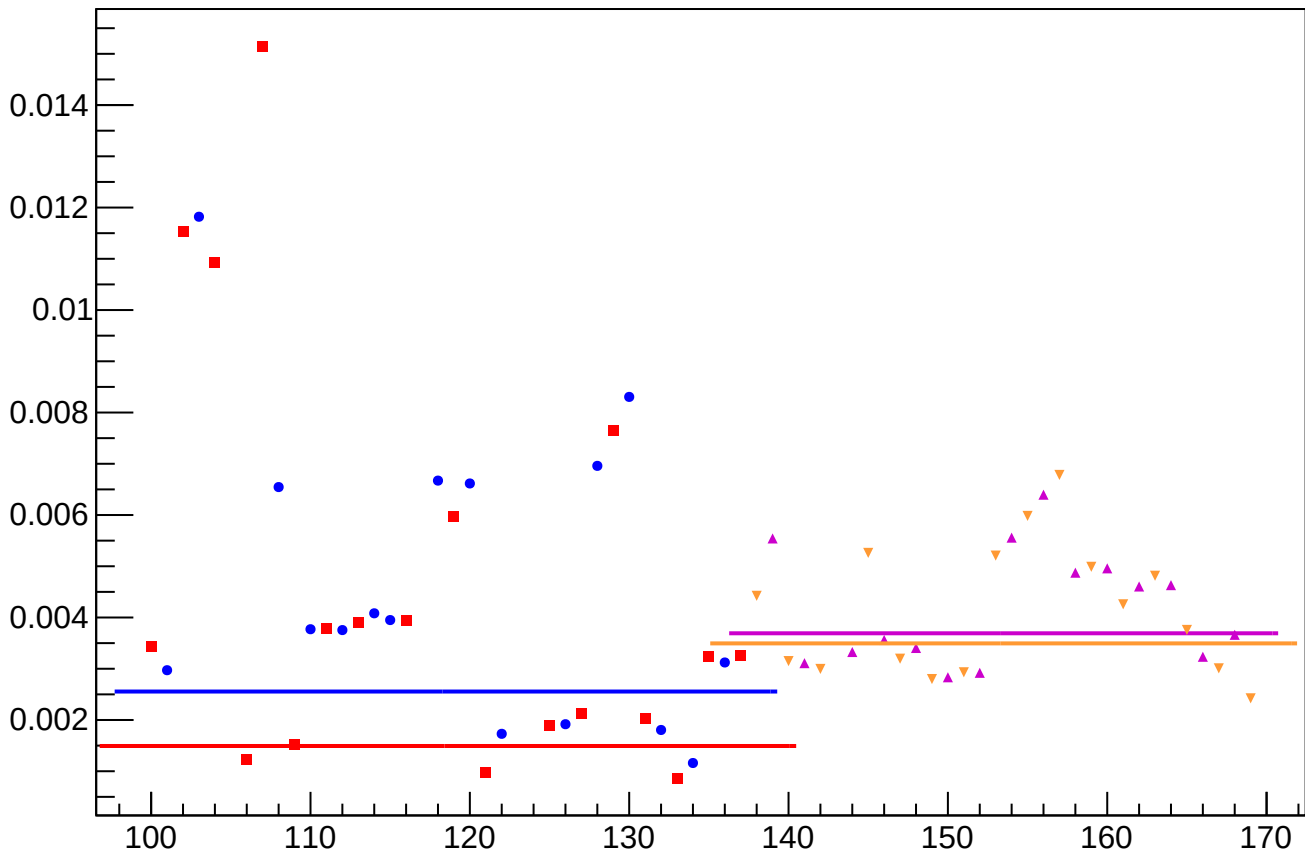
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 42.3/33

In: 0.000 $\pm$ 0.000 χ^2 /NDF:25.2/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:45.6/33

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 76.0/64

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3782362.0/15

Left Out: 0.003+/-0.000 χ^2/NDF :1998451.9/15

Right Out: 0.001+/-0.000 χ^2/NDF : 5561830.1/17

Left In: 0.004+/-0.000 χ^2/NDF :1390907.0/14

Left: 0.004+/-0.000 χ^2/NDF : 3423816.2/30

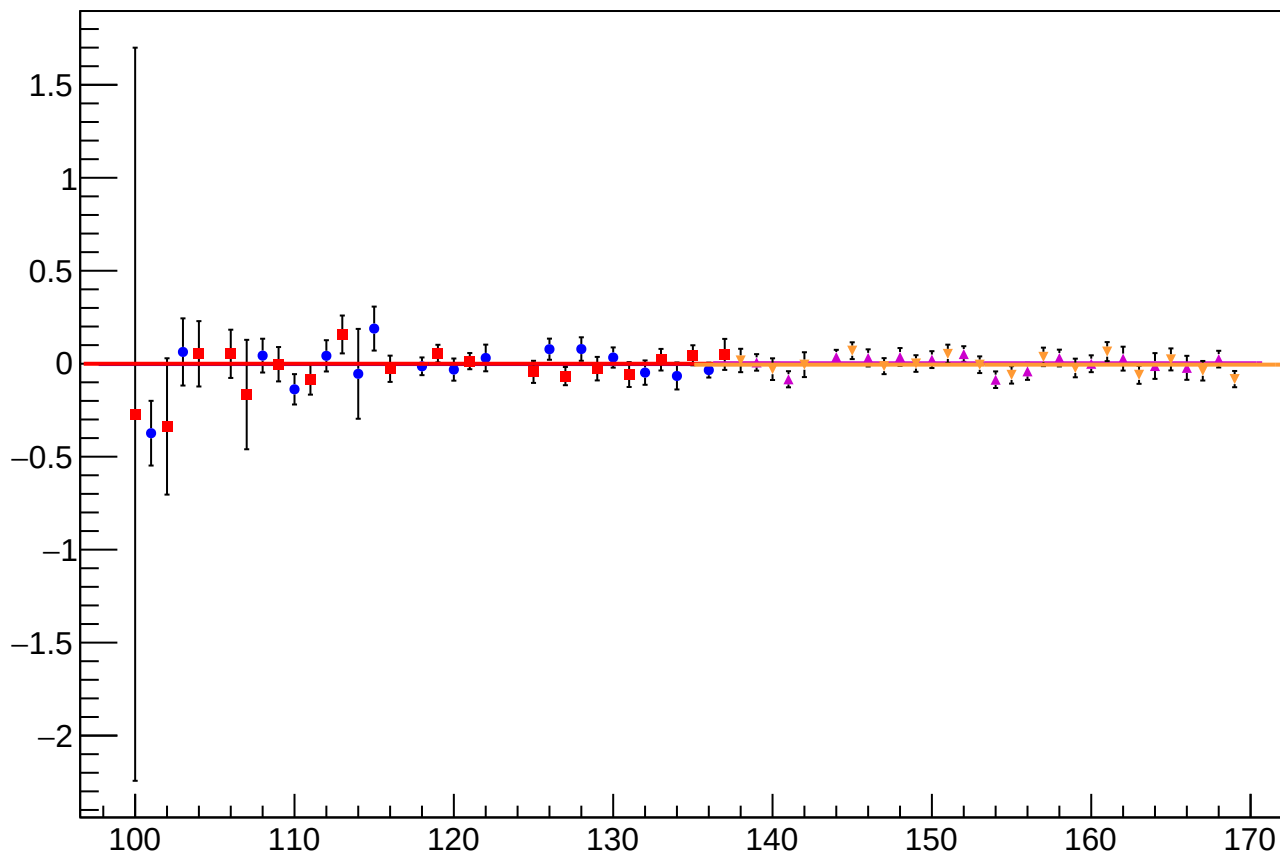
Right: 0.002+/-0.000 χ^2/NDF : 10553457.3/33

In: 0.003+/-0.000 χ^2/NDF :6209200.8/30

Out: 0.002+/-0.000 χ^2/NDF :12473196.8/33

All: 0.003+/-0.000 χ^2/NDF : 20554715.7/64

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.017 $\chi^2/\text{NDF}: 17.1/15$

Left Out: -0.005 ± 0.012 $\chi^2/\text{NDF}: 13.6/15$

Right Out: -0.000 ± 0.017 $\chi^2/\text{NDF}: 10.9/17$

Left In: 0.002 ± 0.012 $\chi^2/\text{NDF}: 12.9/14$

Left: -0.001 ± 0.009 $\chi^2/\text{NDF}: 26.7/30$

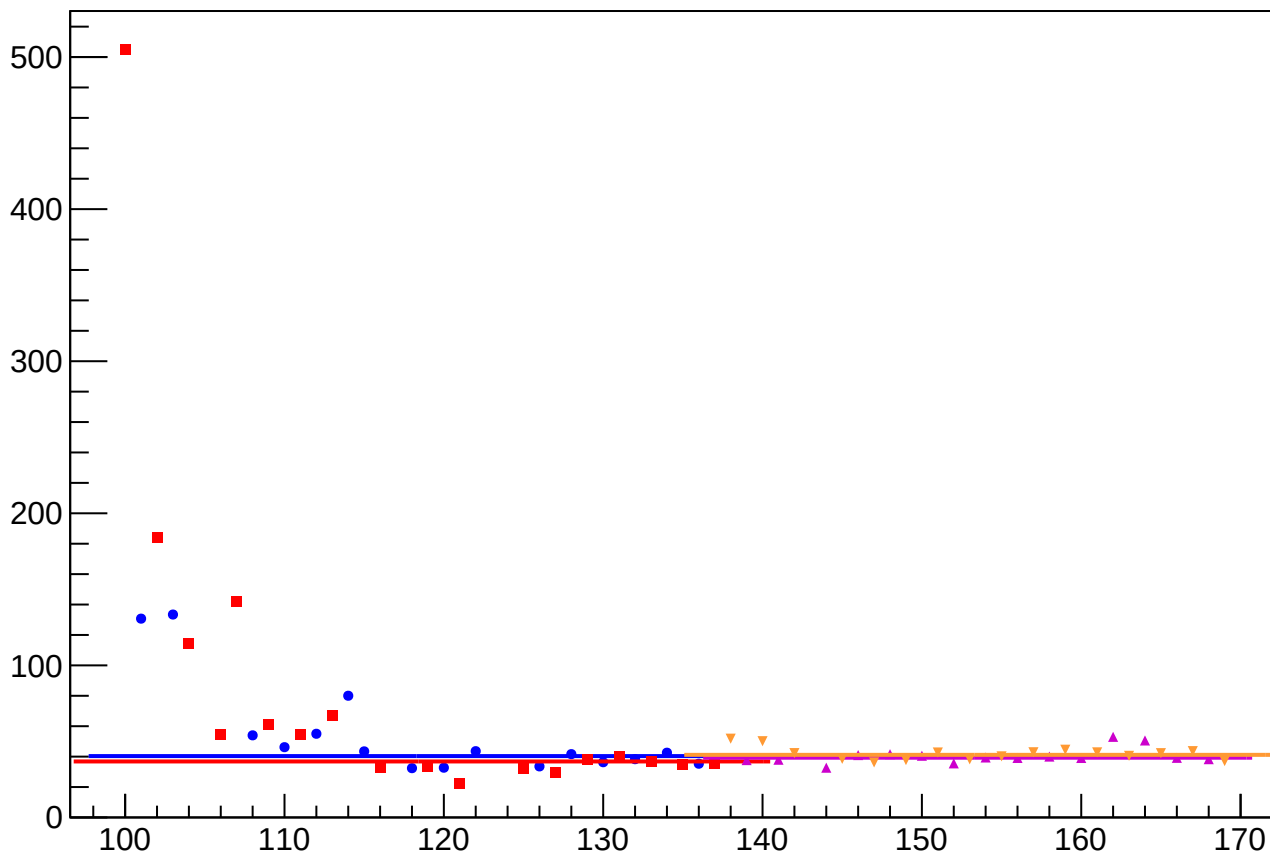
Right: -0.001 ± 0.012 $\chi^2/\text{NDF}: 28.0/33$

In: 0.001 ± 0.010 $\chi^2/\text{NDF}: 30.1/30$

Out: -0.003 ± 0.010 $\chi^2/\text{NDF}: 24.6/33$

All: -0.001 ± 0.007 $\chi^2/\text{NDF}: 54.7/64$

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 40.352 $\pm$ 0.012 χ^2 /NDF: 1410036.7/15

Left Out: 41.166 $\pm$ 0.009 χ^2 /NDF:198259.9/15

Right Out: 36.824 $\pm$ 0.012 χ^2 /NDF: 1837118.8/17

Left In: 39.289 $\pm$ 0.009 χ^2 /NDF:232211.0/14

Left: 40.203 $\pm$ 0.006 χ^2 /NDF: 453772.1/30

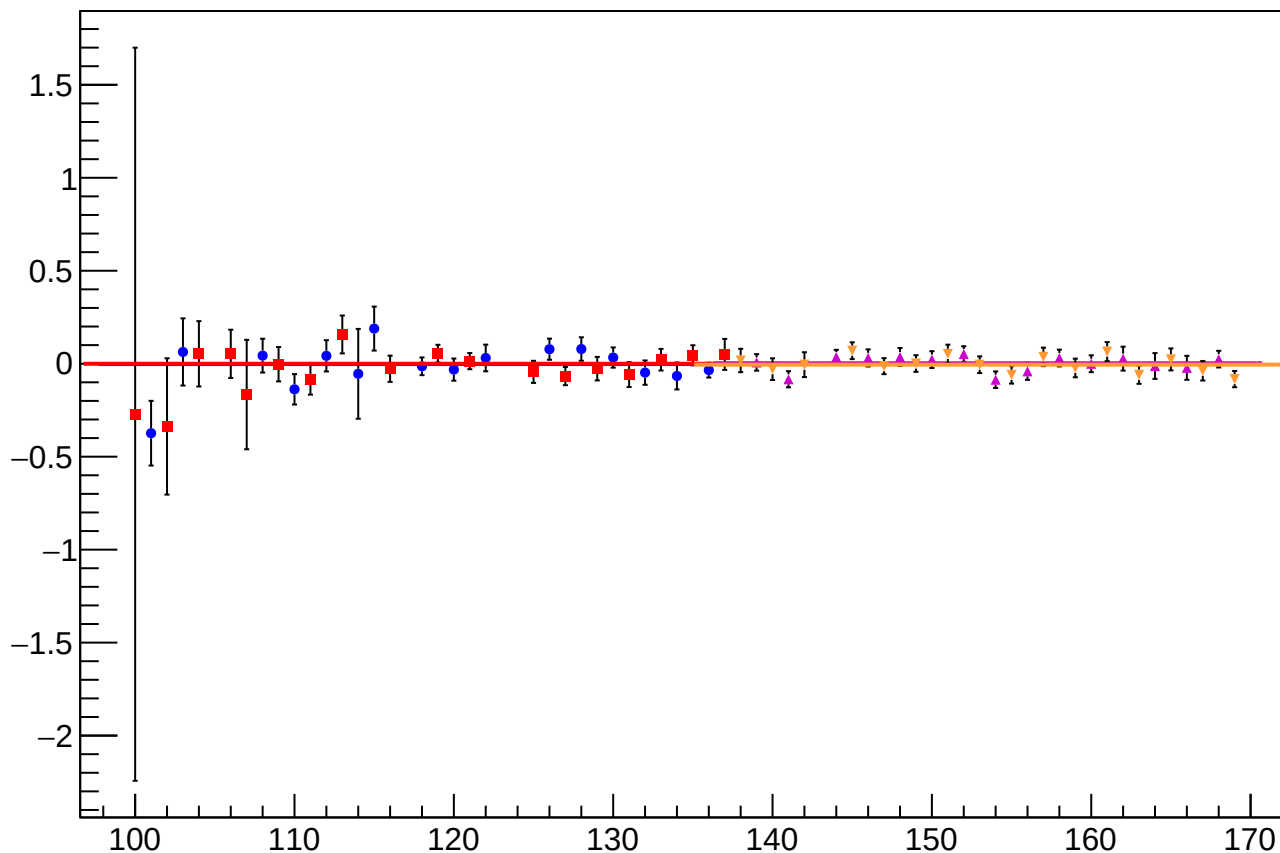
Right: 38.545 $\pm$ 0.008 χ^2 /NDF: 3290871.7/33

In: 39.646 $\pm$ 0.007 χ^2 /NDF:1647395.9/30

Out: 39.609 $\pm$ 0.007 χ^2 /NDF:2122477.2/33

All: 39.628 $\pm$ 0.005 χ^2 /NDF: 3769886.5/64

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.017 χ^2/NDF : 17.1/15

Left Out: -0.005 ± 0.012 χ^2/NDF : 13.6/15

Right Out: -0.000 ± 0.017 χ^2/NDF : 10.9/17

Left In: 0.002 ± 0.012 χ^2/NDF : 12.9/14

Left: -0.001 ± 0.009 χ^2/NDF : 26.7/30

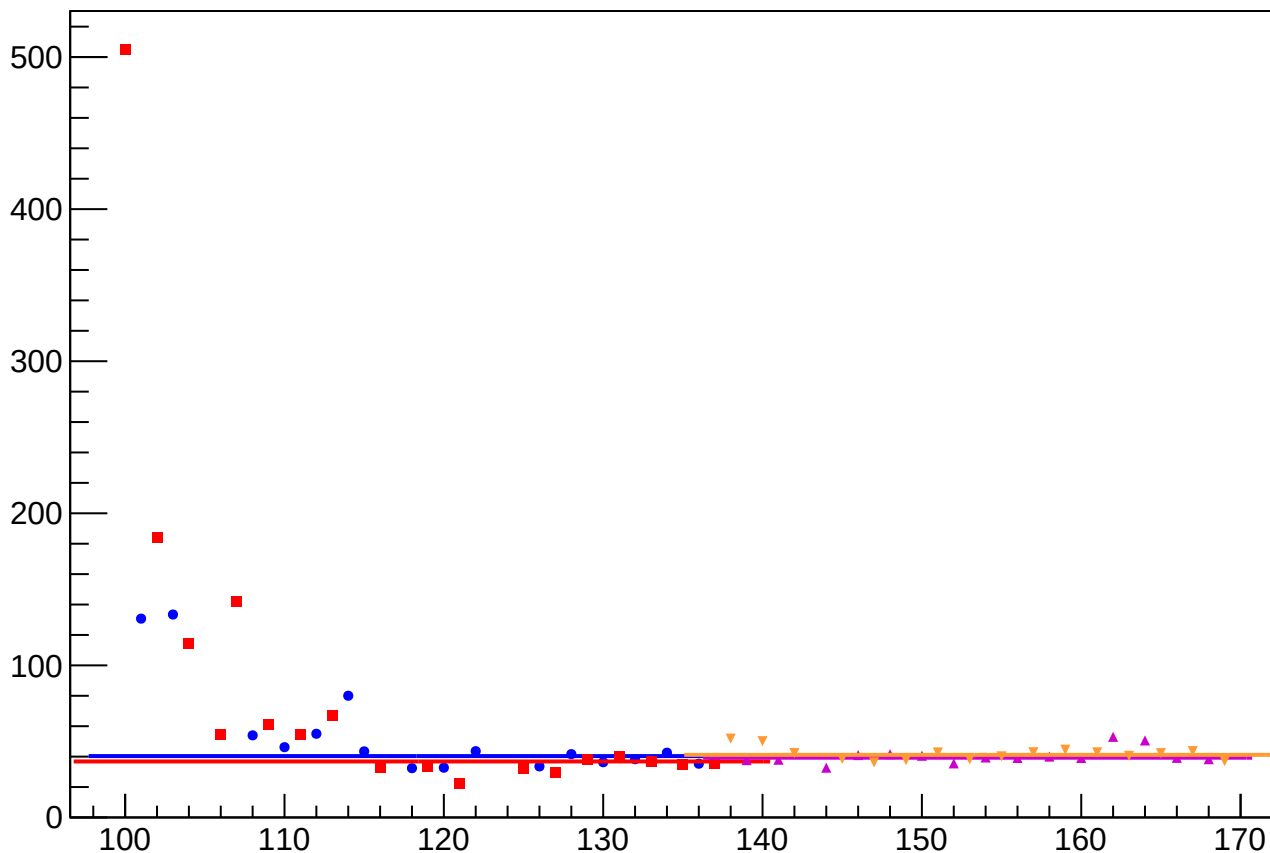
Right: -0.001 ± 0.012 χ^2/NDF : 28.0/33

In: 0.001 ± 0.010 χ^2/NDF : 30.1/30

Out: -0.003 ± 0.010 χ^2/NDF : 24.6/33

All: -0.001 ± 0.007 χ^2/NDF : 54.7/64

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 40.352 $\pm$ 0.012 χ^2 /NDF: 1410036.7/15

Left Out: 41.166 $\pm$ 0.009 χ^2 /NDF:198259.9/15

Right Out: 36.824 $\pm$ 0.012 χ^2 /NDF: 1837118.8/17

Left In: 39.289 $\pm$ 0.009 χ^2 /NDF:232211.0/14

Left: 40.203 $\pm$ 0.006 χ^2 /NDF: 453772.1/30

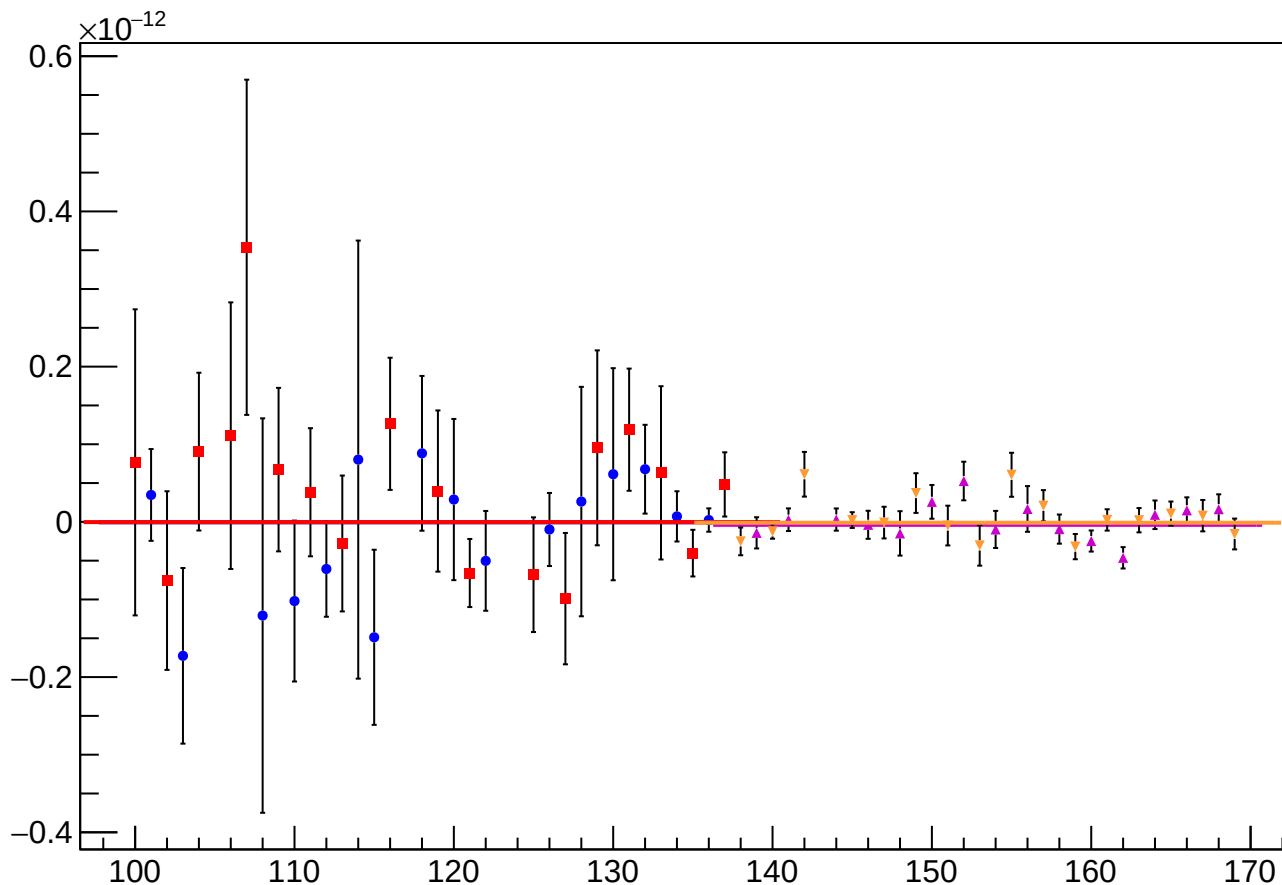
Right: 38.545 $\pm$ 0.008 χ^2 /NDF: 3290871.7/33

In: 39.646 $\pm$ 0.007 χ^2 /NDF:1647395.9/30

Out: 39.609 $\pm$ 0.007 χ^2 /NDF:2122477.2/33

All: 39.628 $\pm$ 0.005 χ^2 /NDF: 3769886.5/64

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 9.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 22.5/15

Right Out: -0.000+/-0.000 χ^2/NDF : 18.4/17

Left In: -0.000+/-0.000 χ^2/NDF : 23.2/14

Left: -0.000+/-0.000 χ^2/NDF : 45.9/30

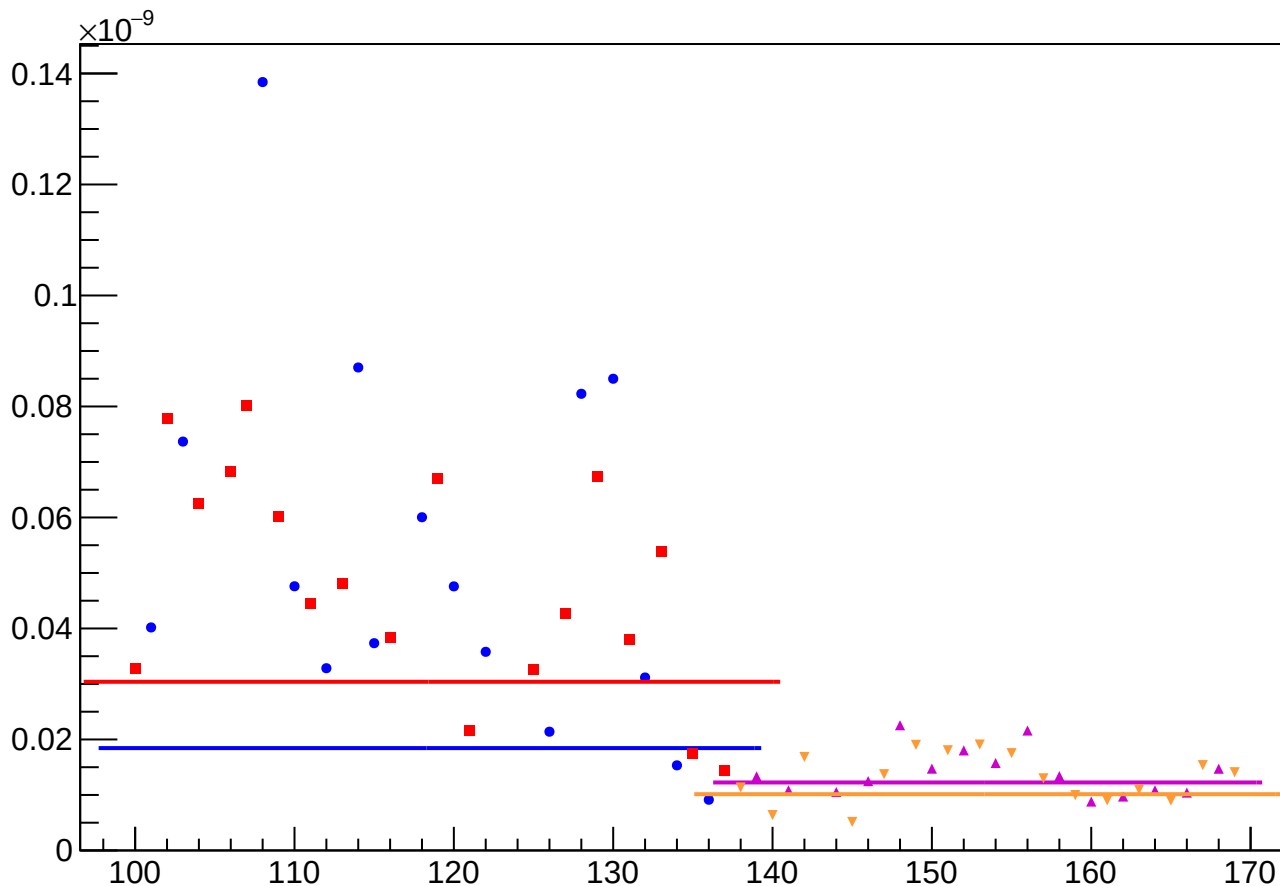
Right: -0.000+/-0.000 χ^2/NDF : 28.2/33

In: -0.000+/-0.000 χ^2/NDF : 33.2/30

Out: -0.000+/-0.000 χ^2/NDF : 40.8/33

All: -0.000+/-0.000 χ^2/NDF : 74.1/64

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4022915.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :2071251.5/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2387224.9/17

Left In: 0.000+/-0.000 χ^2/NDF :964935.4/14

Left: 0.000+/-0.000 χ^2/NDF : 3264821.9/30

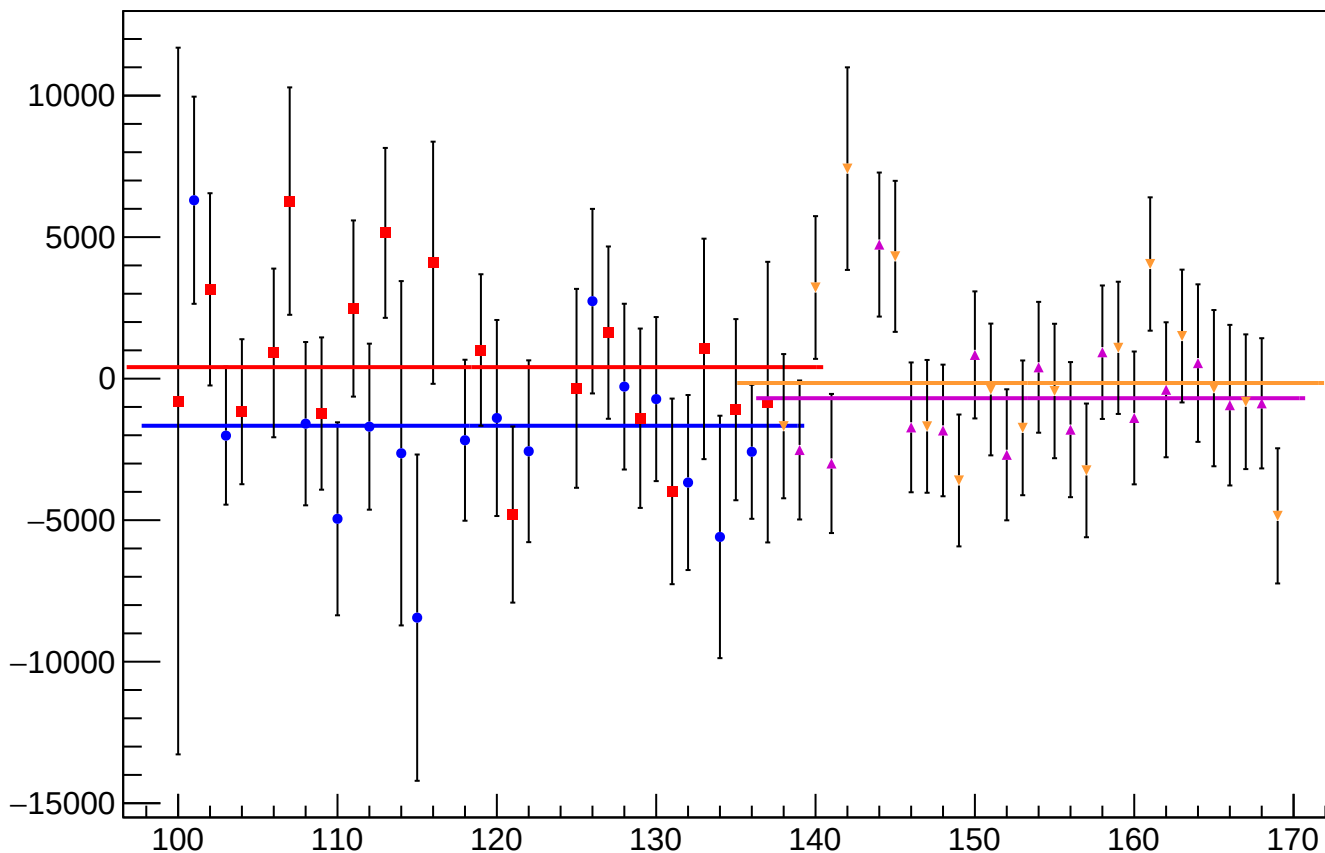
Right: 0.000+/-0.000 χ^2/NDF : 7115915.8/33

In: 0.000+/-0.000 χ^2/NDF :5481356.1/30

Out: 0.000+/-0.000 χ^2/NDF :7305405.3/33

All: 0.000+/-0.000 χ^2/NDF : 12967060.9/64

reg_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1664.305 $\pm$ 792.164 χ^2 /NDF: 10.8/15

Left Out: -153.796 $\pm$ 615.255 χ^2 /NDF:22.1/15

Right Out: 406.847 $\pm$ 777.158 χ^2 /NDF: 12.7/17

Left In: -690.900 $\pm$ 621.571 χ^2 /NDF:8.9/14

Left: -419.605 $\pm$ 437.267 χ^2 /NDF: 31.4/30

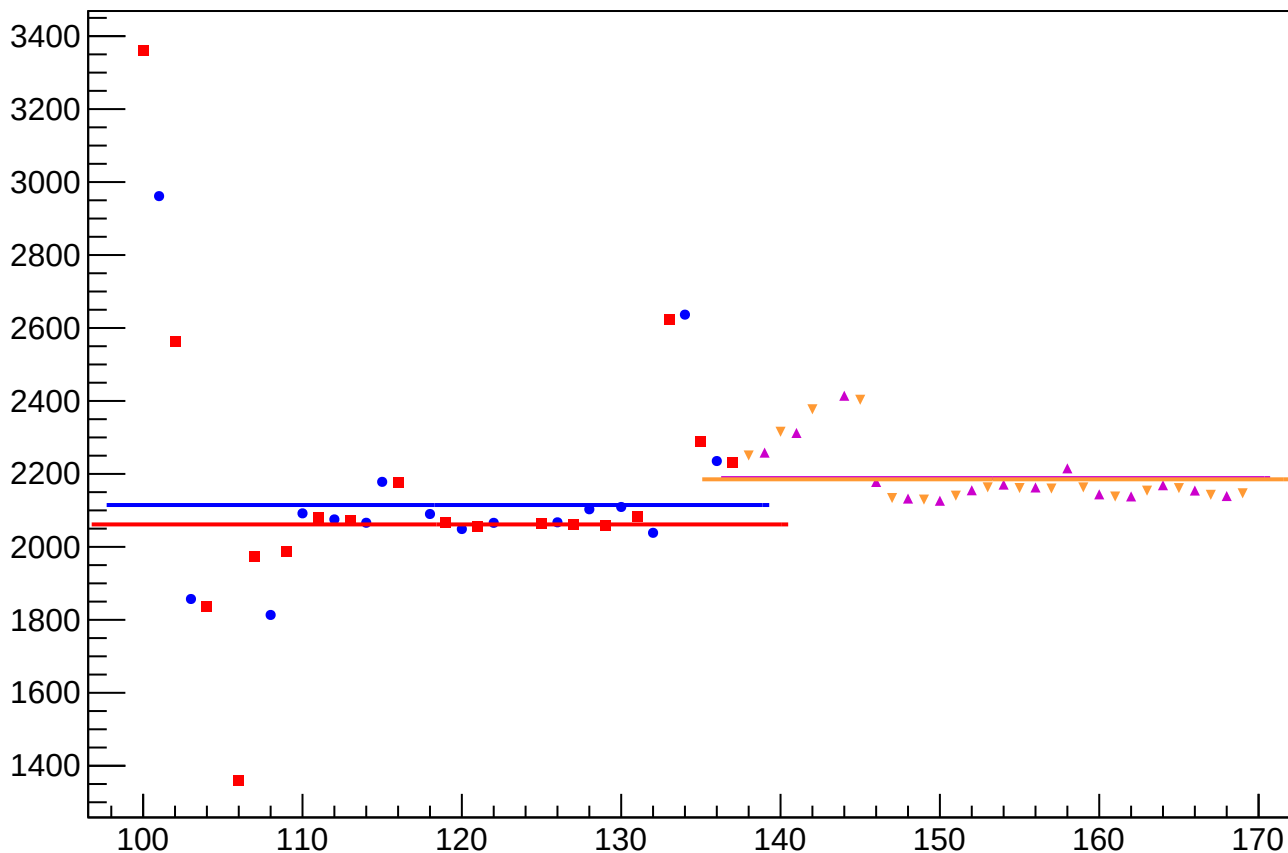
Right: -608.927 $\pm$ 554.763 χ^2 /NDF: 27.0/33

In: -1061.829 $\pm$ 489.005 χ^2 /NDF:20.6/30

Out: 62.206 $\pm$ 482.387 χ^2 /NDF:35.2/33

All: -492.153 $\pm$ 343.415 χ^2 /NDF: 58.5/64

reg_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2114.755 $\pm$ 0.560 χ^2 /NDF: 189920.6/15

Left Out: 2185.198 $\pm$ 0.435 χ^2 /NDF: 31856.1/15

Right Out: 2061.560 $\pm$ 0.550 χ^2 /NDF: 249186.6/17

Left In: 2188.575 $\pm$ 0.440 χ^2 /NDF: 29095.2/14

Left: 2186.869 $\pm$ 0.309 χ^2 /NDF: 60981.2/30

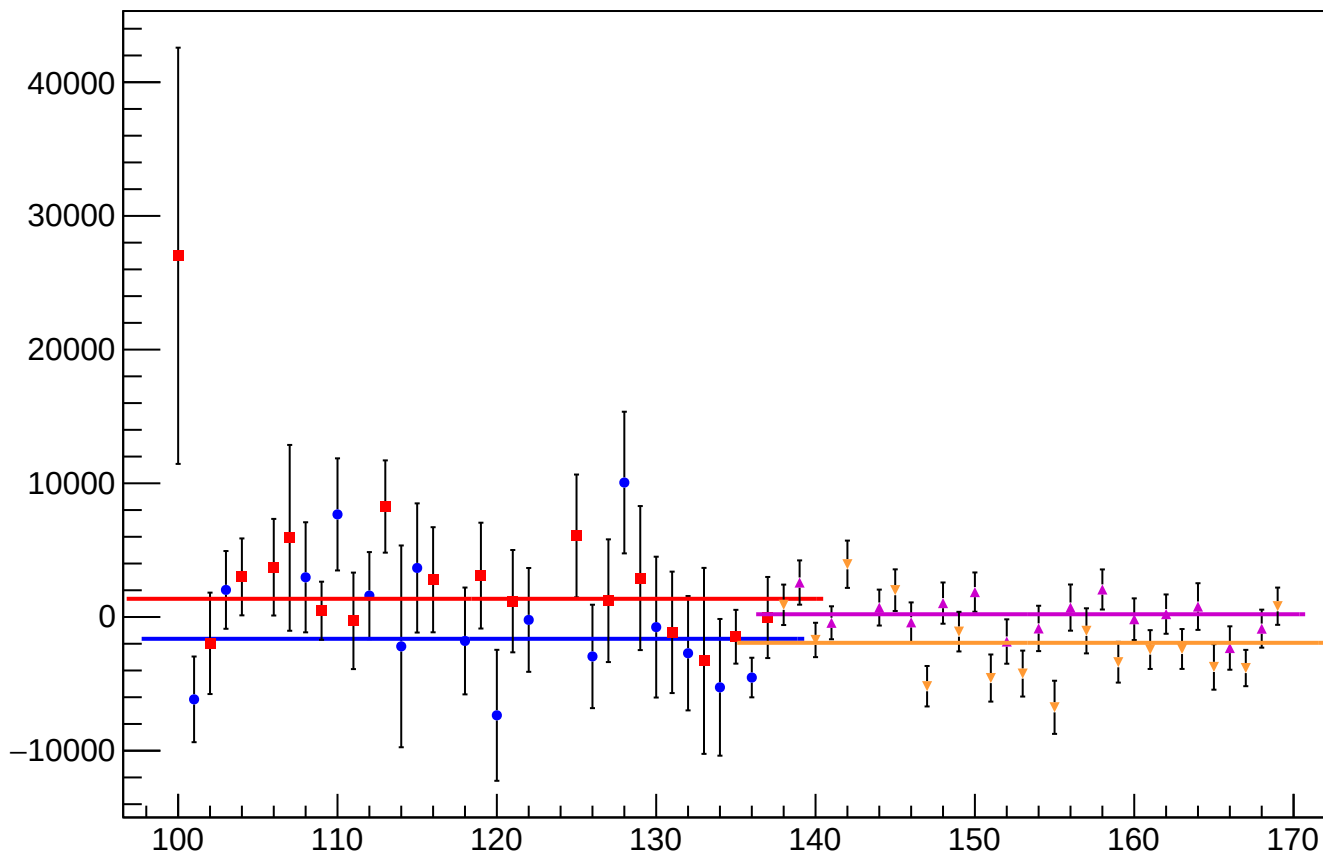
Right: 2087.649 $\pm$ 0.392 χ^2 /NDF: 443702.7/33

In: 2160.445 $\pm$ 0.346 χ^2 /NDF: 229765.3/30

Out: 2137.563 $\pm$ 0.341 χ^2 /NDF: 312159.7/33

All: 2148.848 $\pm$ 0.243 χ^2 /NDF: 544144.4/64

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1630.474 $\pm$ 862.417 χ^2 /NDF: 22.9/15

Left Out: -1930.719 $\pm$ 386.641 χ^2 /NDF:44.2/15

Right Out: 1361.841 $\pm$ 840.417 χ^2 /NDF: 13.5/17

Left In: 206.173 $\pm$ 392.909 χ^2 /NDF:10.9/14

Left: -879.453 $\pm$ 275.586 χ^2 /NDF: 70.0/30

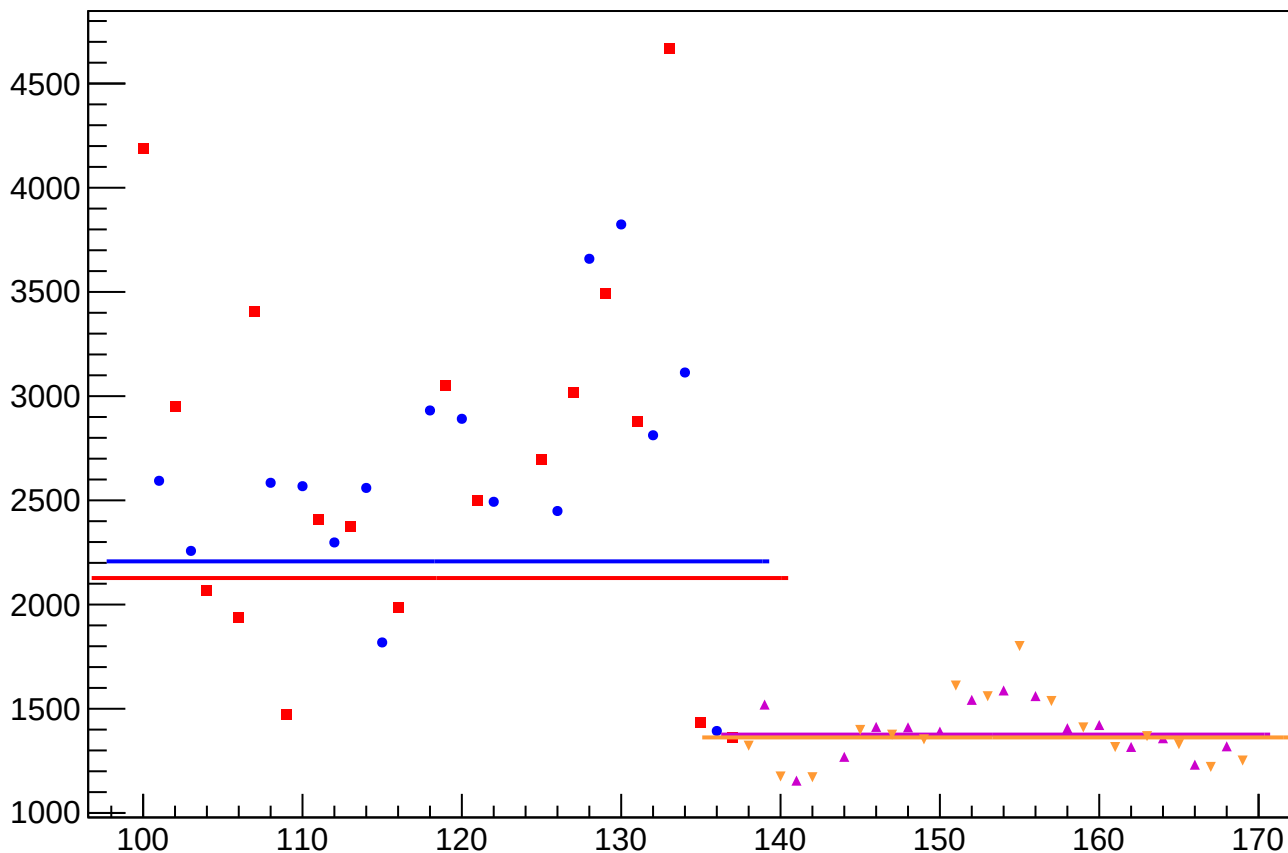
Right: -95.664 $\pm$ 601.892 χ^2 /NDF: 42.5/33

In: -109.520 $\pm$ 357.550 χ^2 /NDF:37.5/30

Out: -1355.569 $\pm$ 351.252 χ^2 /NDF:70.3/33

All: -743.616 $\pm$ 250.570 χ^2 /NDF: 113.9/64

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 2207.254+/-0.610 χ^2/NDF : 1249266.5/15

Left Out: 1362.452+/-0.273 χ^2/NDF : 292829.4/15

Right Out: 2127.224+/-0.594 χ^2/NDF : 1458046.9/17

Left In: 1375.993+/-0.278 χ^2/NDF : 193571.7/14

Left: 1369.114+/-0.195 χ^2/NDF : 487607.9/30

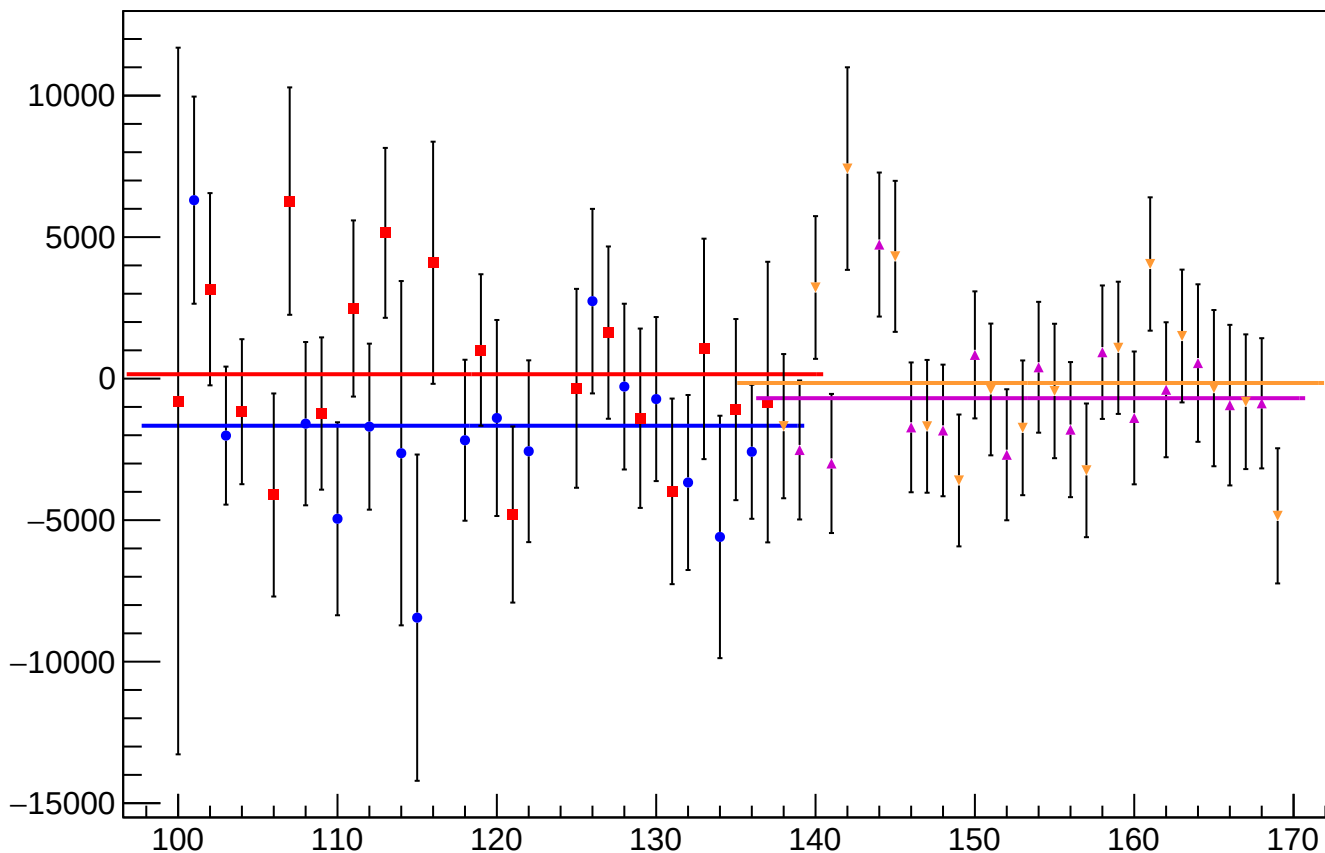
Right: 2166.205+/-0.426 χ^2/NDF : 2716147.2/33

In: 1518.875+/-0.253 χ^2/NDF : 2981561.8/30

Out: 1496.044+/-0.248 χ^2/NDF : 3117739.9/33

All: 1507.256+/-0.177 χ^2/NDF : 6103451.3/64

cor_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1664.231+/-792.164 χ^2/NDF : 10.8/15

Left Out: -153.612+/-615.255 χ^2/NDF : 22.1/15

Right Out: 155.775+/-785.481 χ^2/NDF : 14.2/17

Left In: -690.776+/-621.571 χ^2/NDF : 8.9/14

Left: -419.451+/-437.267 χ^2/NDF : 31.4/30

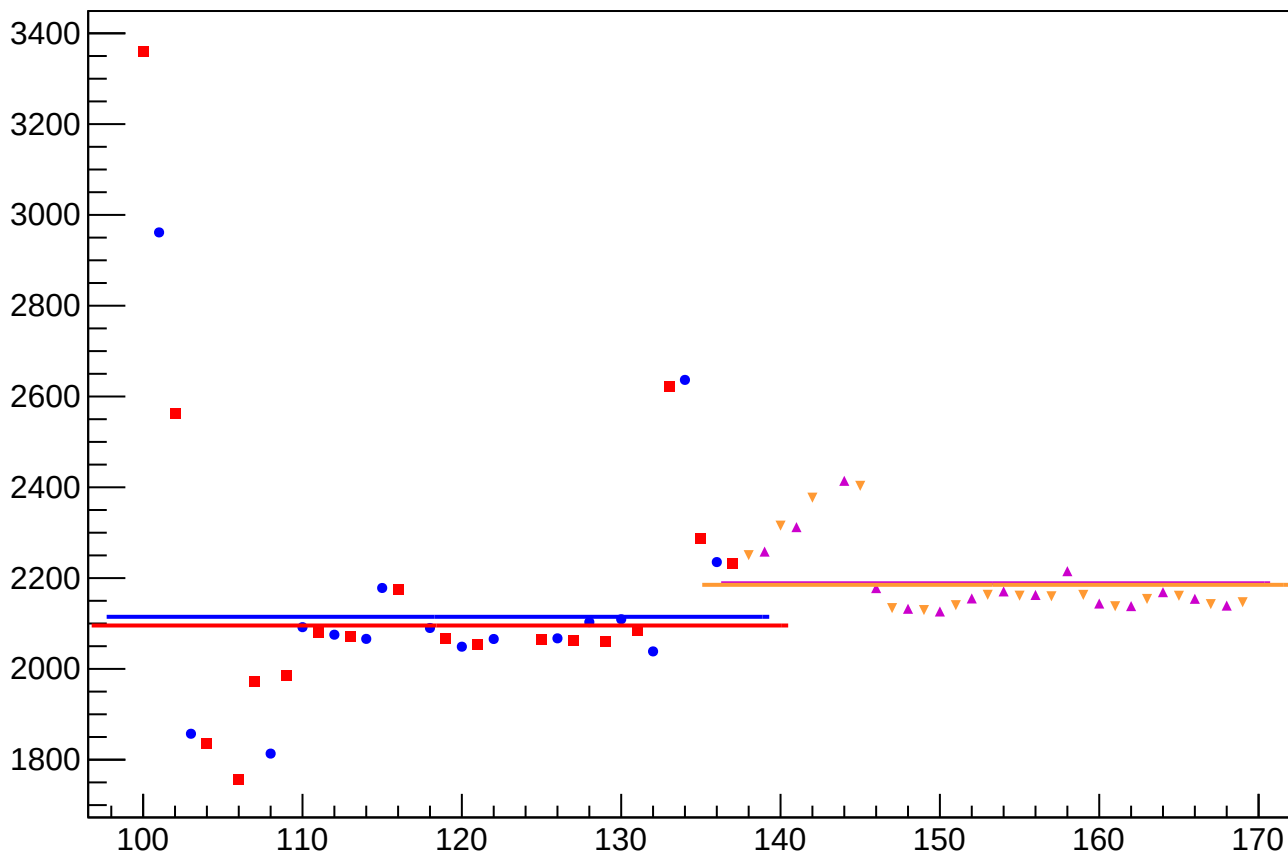
Right: -746.519+/-557.767 χ^2/NDF : 27.6/33

In: -1061.724+/-489.005 χ^2/NDF : 20.6/30

Out: -35.970+/-484.357 χ^2/NDF : 36.4/33

All: -543.949+/-344.124 χ^2/NDF : 59.3/64

cor_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2114.755 $\pm$ 0.560 χ^2/NDF : 189920.9/15

Left Out: 2185.198 $\pm$ 0.435 χ^2/NDF : 31856.1/15

Right Out: 2095.597 $\pm$ 0.555 χ^2/NDF : 149360.5/17

Left In: 2188.575 $\pm$ 0.440 χ^2/NDF : 29095.2/14

Left: 2186.869 $\pm$ 0.309 χ^2/NDF : 60981.1/30

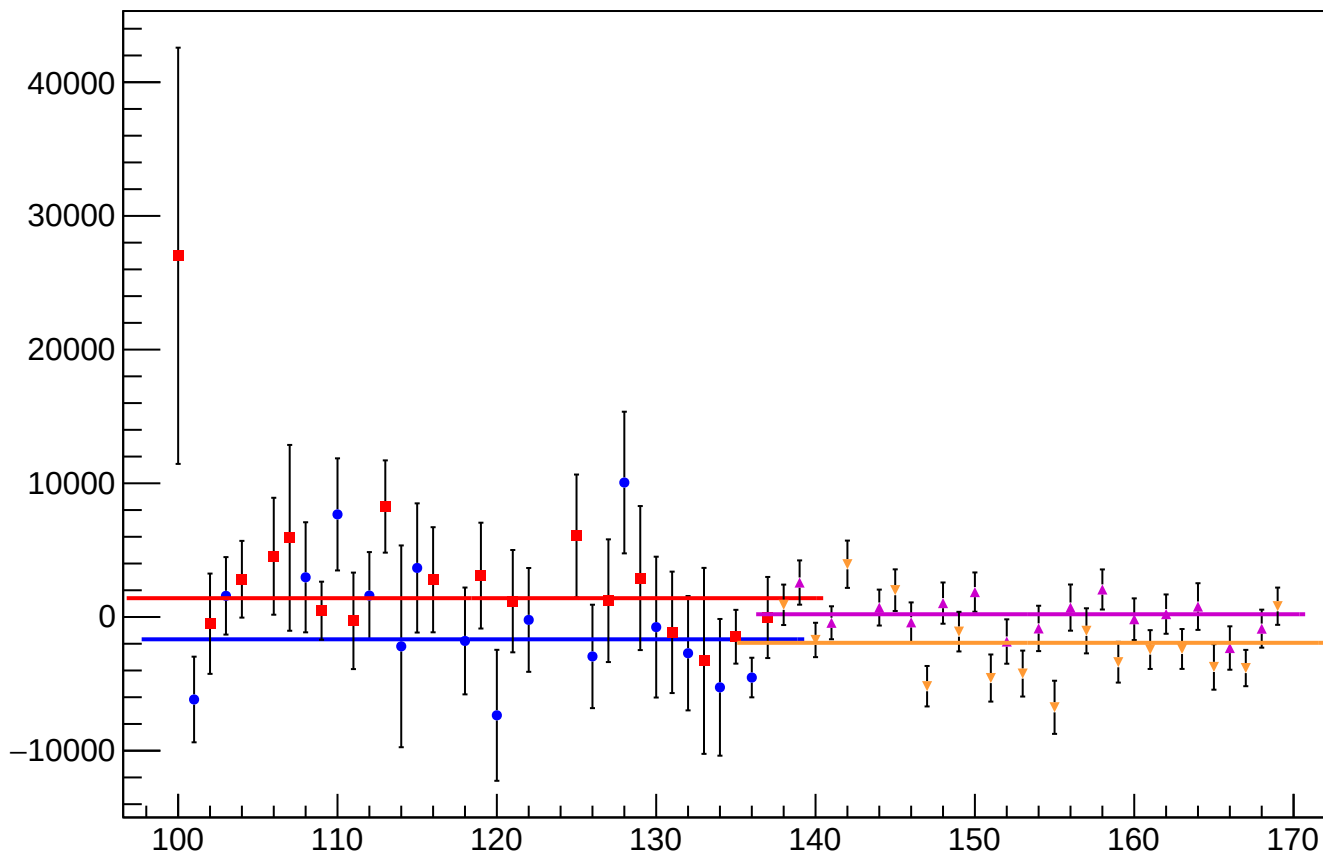
Right: 2105.095 $\pm$ 0.394 χ^2/NDF : 339871.2/33

In: 2160.445 $\pm$ 0.346 χ^2/NDF : 229765.7/30

Out: 2151.128 $\pm$ 0.342 χ^2/NDF : 197345.7/33

All: 2155.742 $\pm$ 0.243 χ^2/NDF : 427477.8/64

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1668.482 $\pm$ 862.126 χ^2 /NDF: 22.5/15

Left Out: -1930.740 $\pm$ 386.643 χ^2 /NDF:44.2/15

Right Out: 1407.975 $\pm$ 847.068 χ^2 /NDF: 13.0/17

Left In: 206.013 $\pm$ 392.908 χ^2 /NDF:10.9/14

Left: -879.535 $\pm$ 275.587 χ^2 /NDF: 70.0/30

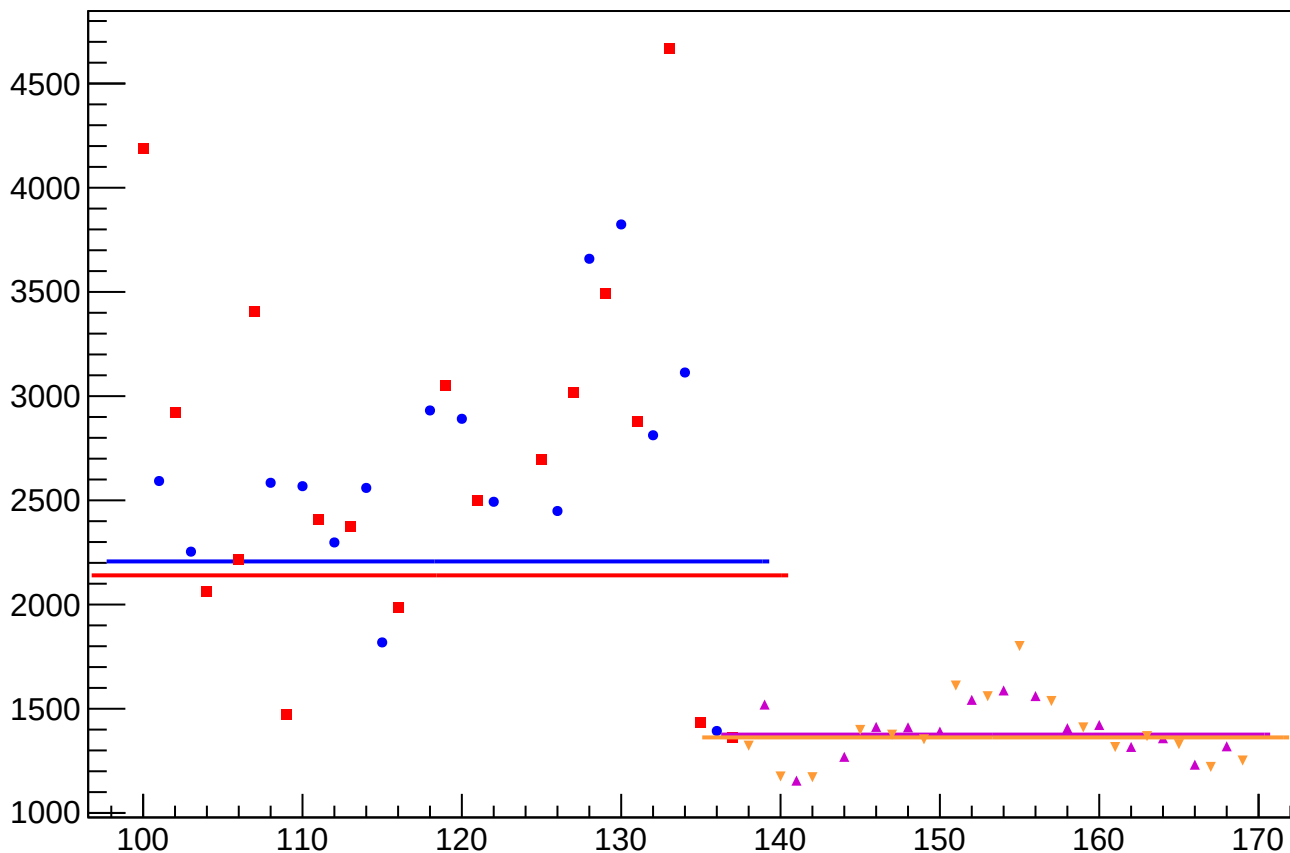
Right: -103.153 $\pm$ 604.221 χ^2 /NDF: 42.0/33

In: -116.366 $\pm$ 357.529 χ^2 /NDF:37.3/30

Out: -1355.071 $\pm$ 351.735 χ^2 /NDF:70.0/33

All: -745.838 $\pm$ 250.737 χ^2 /NDF: 113.4/64

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 2206.918+/-0.610

χ^2/NDF : 1249024.4/15

Left Out: 1362.463+/-0.273

χ^2/NDF : 292772.8/15

Right Out: 2140.060+/-0.599

χ^2/NDF : 1448366.8/17

Left In: 1375.991+/-0.278

χ^2/NDF : 193617.9/14

Left: 1369.119+/-0.195

χ^2/NDF : 487595.2/30

Right: 2172.900+/-0.427

χ^2/NDF : 2703511.1/33

In: 1518.895+/-0.253

χ^2/NDF : 2980988.4/30

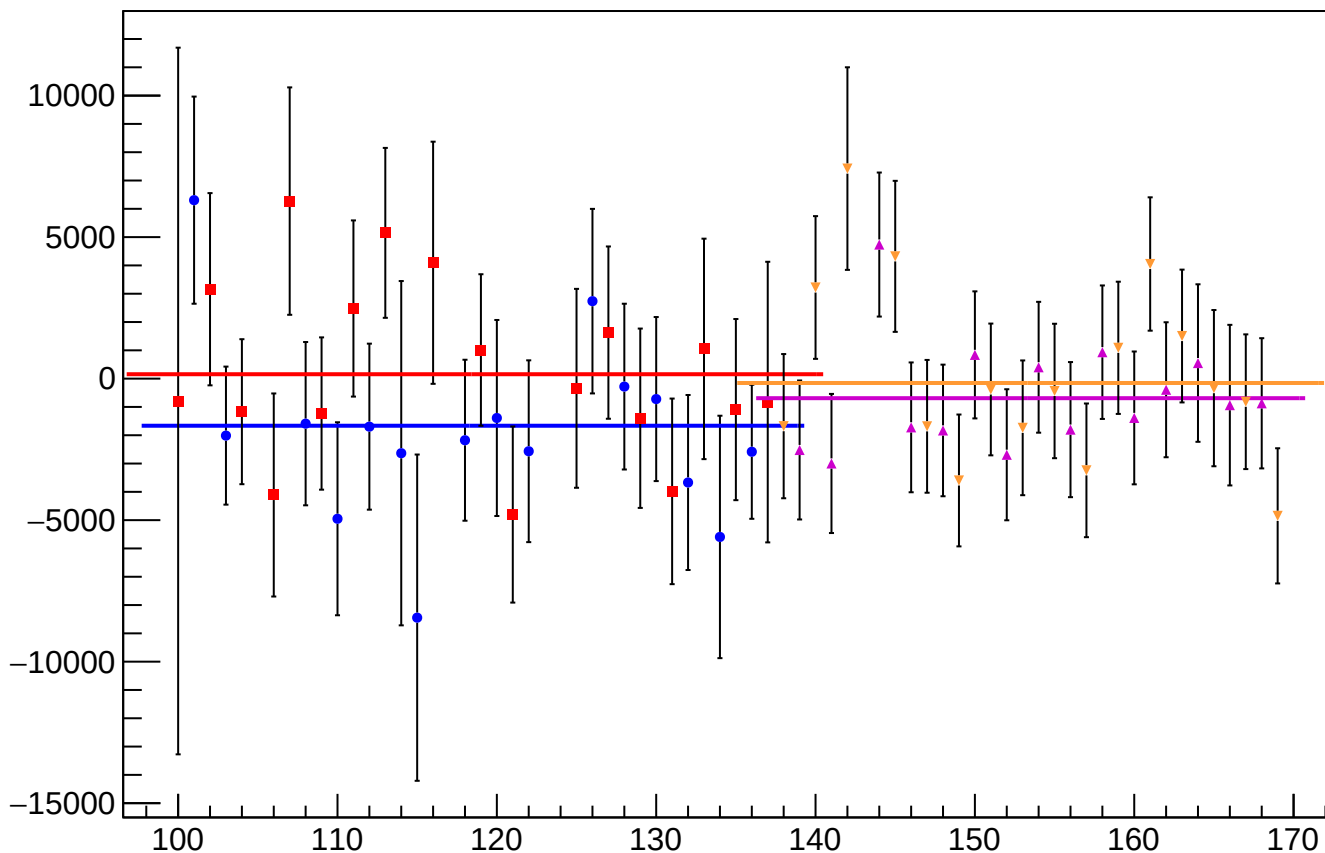
Out: 1496.538+/-0.249

χ^2/NDF : 3135934.6/33

All: 1507.534+/-0.177

χ^2/NDF : 6120897.1/64

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1664.231+/-792.164 χ^2/NDF : 10.8/15

Left Out: -153.612+/-615.255 χ^2/NDF : 22.1/15

Right Out: 155.775+/-785.481 χ^2/NDF : 14.2/17

Left In: -690.776+/-621.571 χ^2/NDF : 8.9/14

Left: -419.451+/-437.267 χ^2/NDF : 31.4/30

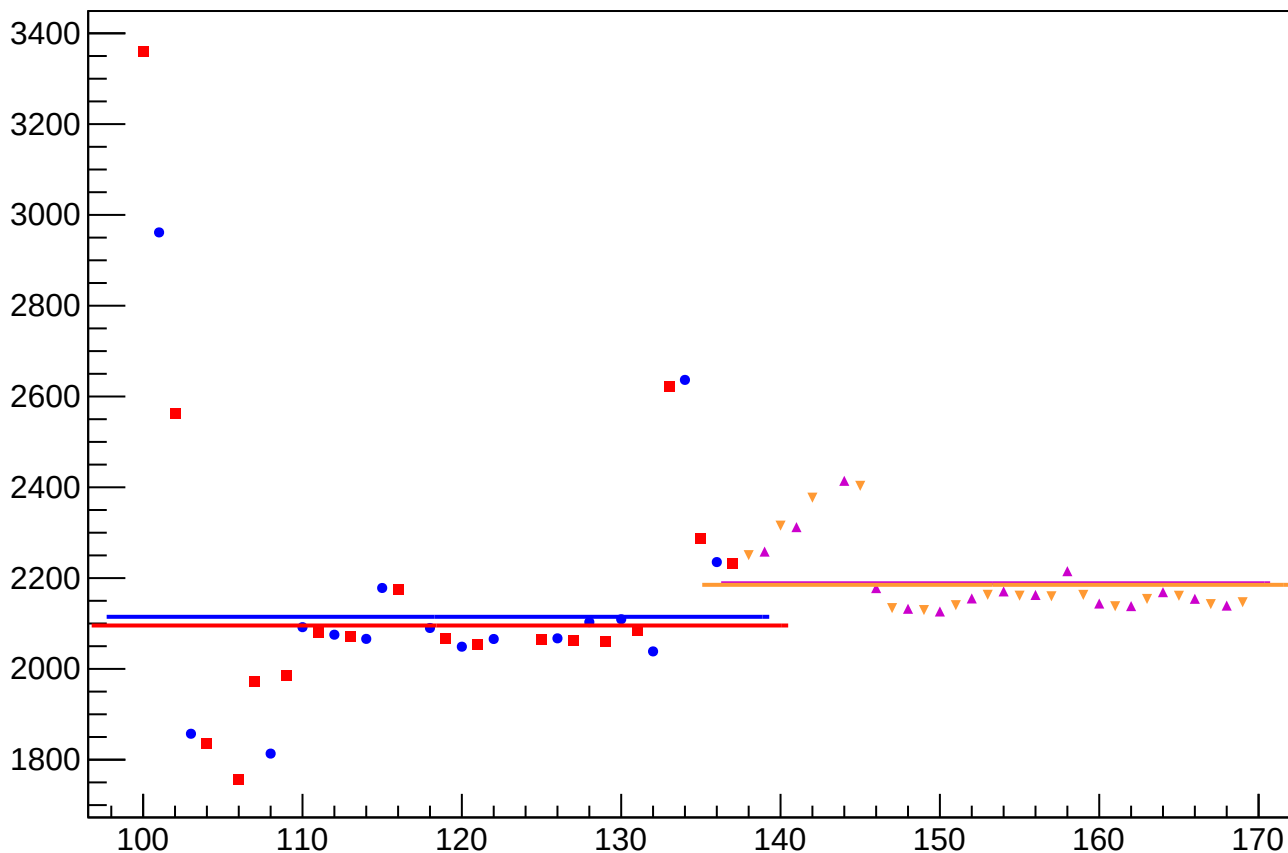
Right: -746.519+/-557.767 χ^2/NDF : 27.6/33

In: -1061.724+/-489.005 χ^2/NDF : 20.6/30

Out: -35.970+/-484.357 χ^2/NDF : 36.4/33

All: -543.949+/-344.124 χ^2/NDF : 59.3/64

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2114.755 $\pm$ 0.560 χ^2 /NDF: 189920.9/15

Left Out: 2185.198 $\pm$ 0.435 χ^2 /NDF:31856.1/15

Right Out: 2095.597 $\pm$ 0.555 χ^2 /NDF: 149360.5/17

Left In: 2188.575 $\pm$ 0.440 χ^2 /NDF:29095.2/14

Left: 2186.869 $\pm$ 0.309 χ^2 /NDF: 60981.1/30

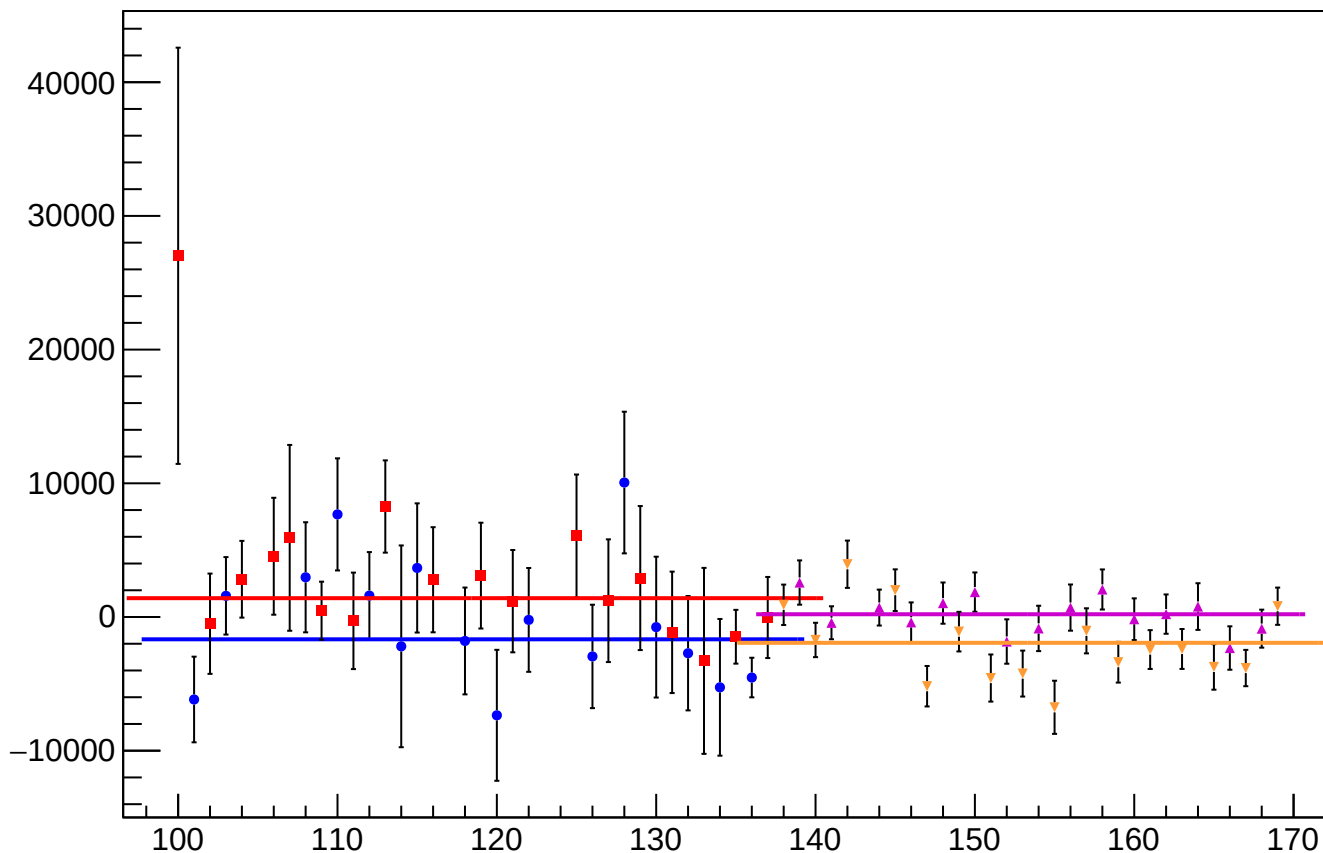
Right: 2105.095 $\pm$ 0.394 χ^2 /NDF: 339871.2/33

In: 2160.445 $\pm$ 0.346 χ^2 /NDF:229765.7/30

Out: 2151.128 $\pm$ 0.342 χ^2 /NDF:197345.7/33

All: 2155.742 $\pm$ 0.243 χ^2 /NDF: 427477.8/64

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1668.482 $\pm$ 862.126 χ^2 /NDF: 22.5/15

Left Out: -1930.740 $\pm$ 386.643 χ^2 /NDF: 44.2/15

Right Out: 1407.975 $\pm$ 847.068 χ^2 /NDF: 13.0/17

Left In: 206.013 $\pm$ 392.908 χ^2 /NDF: 10.9/14

Left: -879.535 $\pm$ 275.587 χ^2 /NDF: 70.0/30

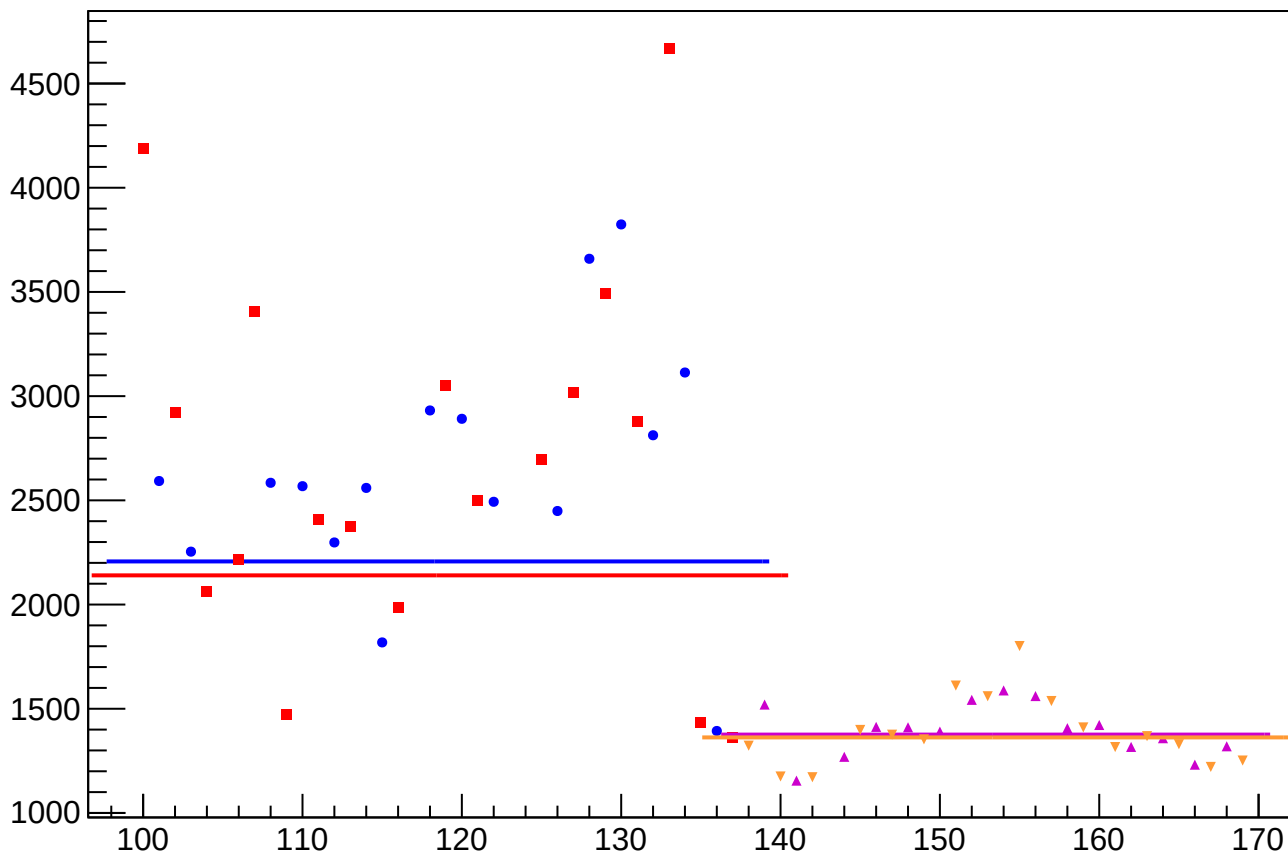
Right: -103.153 $\pm$ 604.221 χ^2 /NDF: 42.0/33

In: -116.366 $\pm$ 357.529 χ^2 /NDF: 37.3/30

Out: -1355.071 $\pm$ 351.735 χ^2 /NDF: 70.0/33

All: -745.838 $\pm$ 250.737 χ^2 /NDF: 113.4/64

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2206.918 ± 0.610

χ^2/NDF : 1249024.4/15

Left: 1369.119 ± 0.195 χ^2/NDF : 487595.2/30

Right: 2172.900 ± 0.427 χ^2/NDF : 2703511.1/33

Left Out: 1362.463 ± 0.273

χ^2/NDF : 292772.8/15

In: 1518.895 ± 0.253 χ^2/NDF : 2980988.4/30

Right Out: 2140.060 ± 0.599

χ^2/NDF : 1448366.8/17

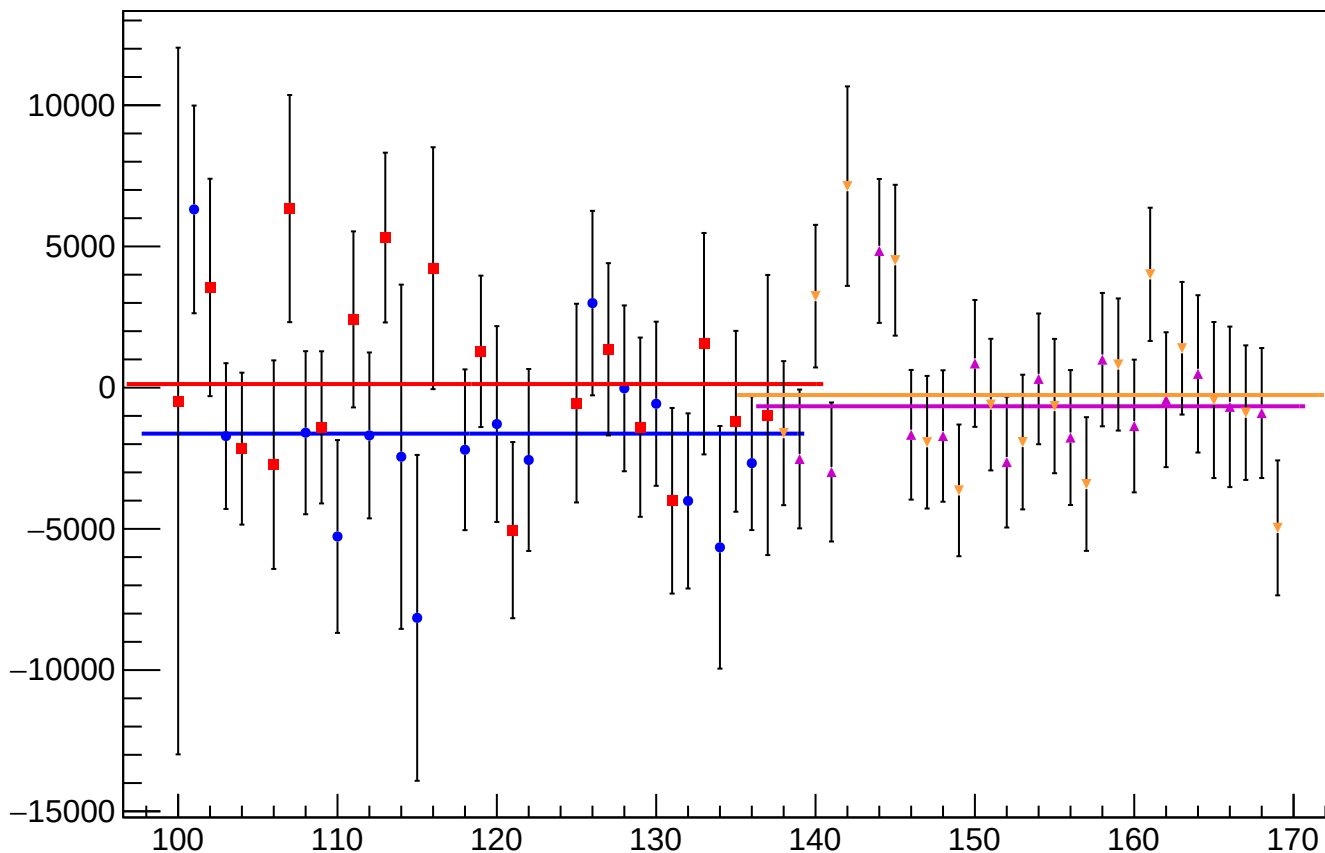
Out: 1496.538 ± 0.249 χ^2/NDF : 3135934.6/33

Left In: 1375.991 ± 0.278

χ^2/NDF : 193617.9/14

All: 1507.534 ± 0.177 χ^2/NDF : 6120897.1/64

dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1627.635 ± 797.966 $\chi^2/\text{NDF}: 11.3/15$

Left Out: -260.597 ± 615.681 $\chi^2/\text{NDF}: 22.6/15$

Right Out: 128.099 ± 795.899 $\chi^2/\text{NDF}: 14.6/17$

Left In: -659.688 ± 622.266 $\chi^2/\text{NDF}: 8.9/14$

Left: -458.019 ± 437.662 $\chi^2/\text{NDF}: 31.7/30$

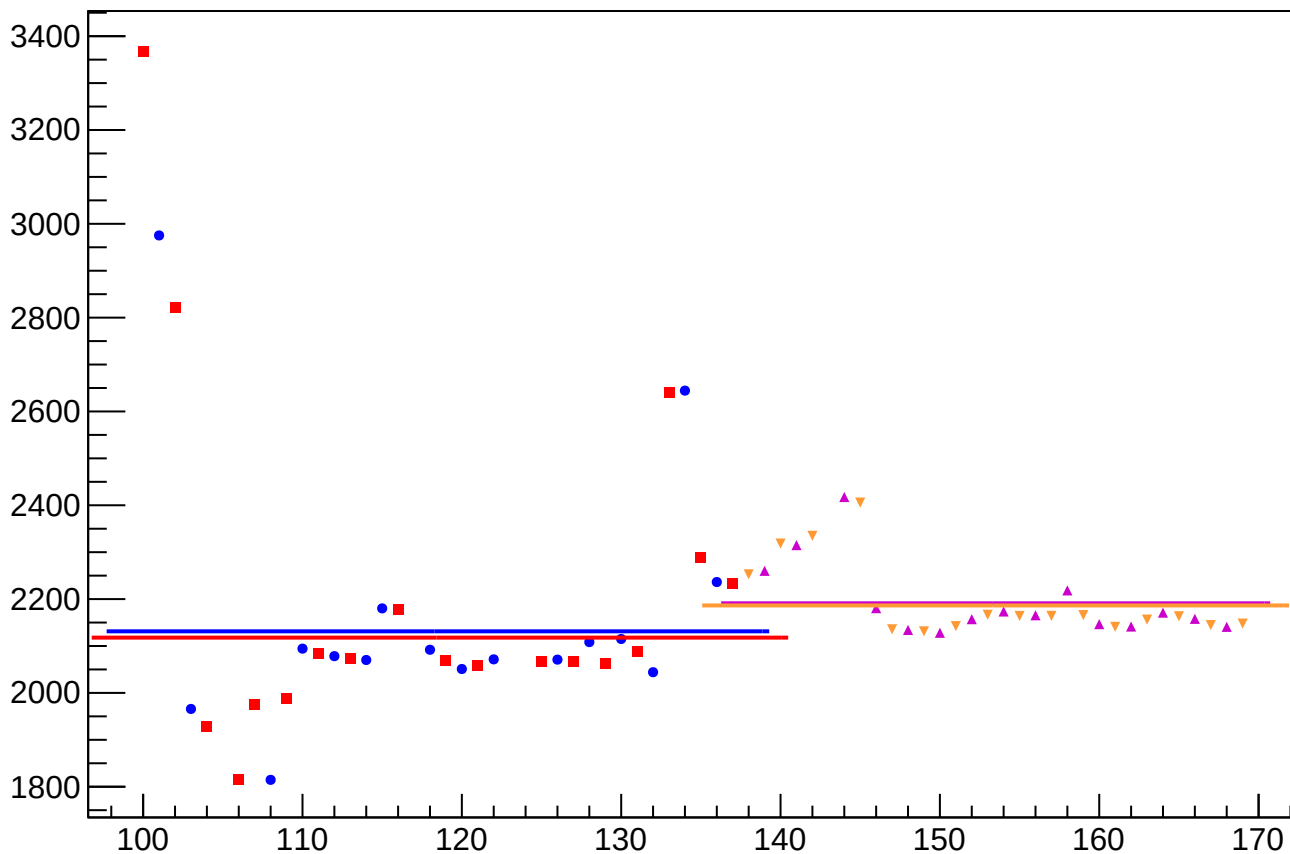
Right: -747.490 ± 563.515 $\chi^2/\text{NDF}: 28.3/33$

In: -1025.719 ± 490.702 $\chi^2/\text{NDF}: 21.1/30$

Out: -115.078 ± 486.981 $\chi^2/\text{NDF}: 37.3/33$

All: -566.933 ± 345.656 $\chi^2/\text{NDF}: 60.2/64$

dit_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2131.298 $\pm$ 0.564 χ^2 /NDF: 175943.3/15

Left Out: 2186.462 $\pm$ 0.435 χ^2 /NDF: 29615.4/15

Right Out: 2117.868 $\pm$ 0.563 χ^2 /NDF: 163622.7/17

Left In: 2191.011 $\pm$ 0.440 χ^2 /NDF: 29223.1/14

Left: 2188.712 $\pm$ 0.309 χ^2 /NDF: 58892.5/30

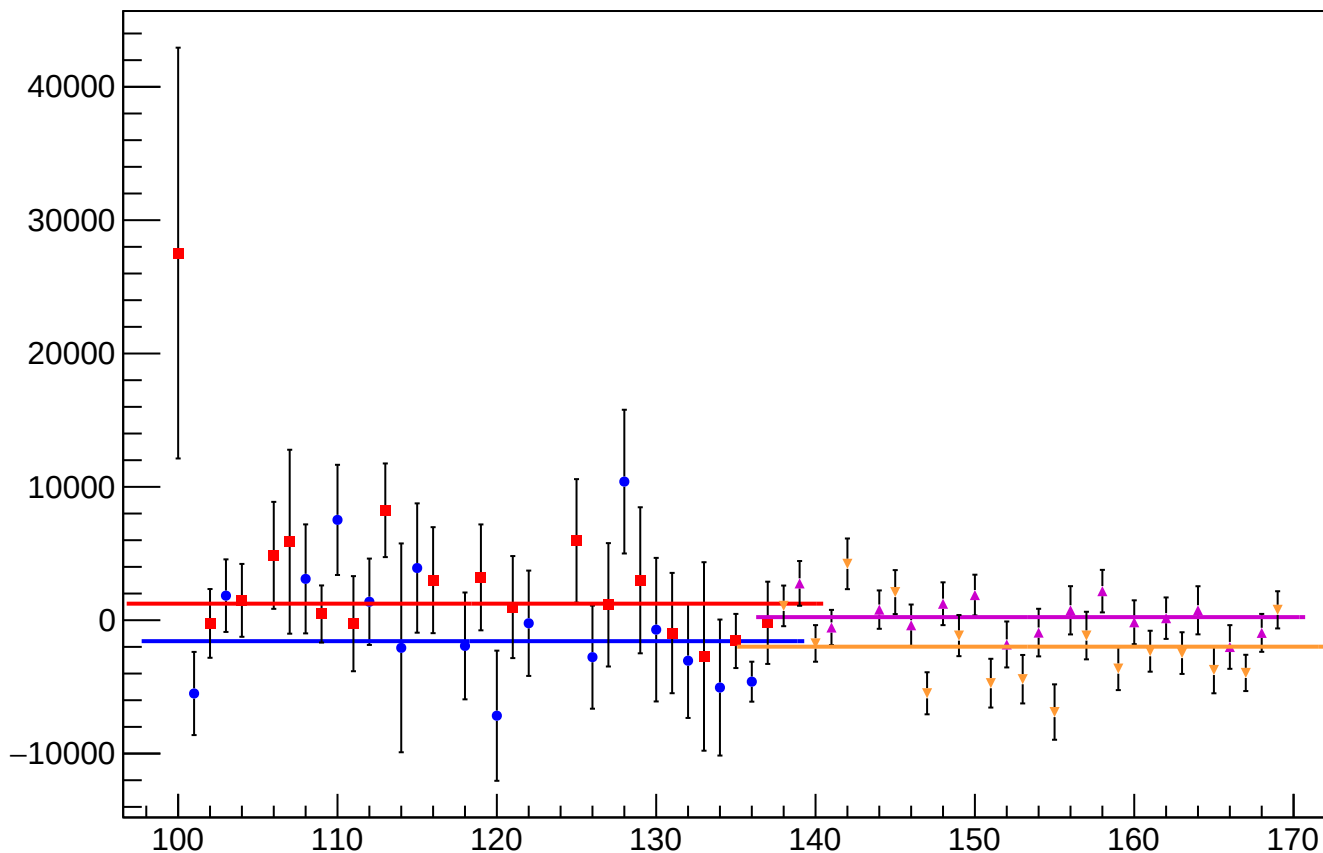
Right: 2124.565 $\pm$ 0.398 χ^2 /NDF: 339850.1/33

In: 2168.430 $\pm$ 0.347 χ^2 /NDF: 212130.7/30

Out: 2160.781 $\pm$ 0.344 χ^2 /NDF: 202532.1/33

All: 2164.577 $\pm$ 0.244 χ^2 /NDF: 414907.6/64

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1571.073 $\pm$ 859.754 χ^2 /NDF: 22.6/15

Left Out: -1985.261 $\pm$ 402.390 χ^2 /NDF:44.1/15

Right Out: 1241.008 $\pm$ 819.775 χ^2 /NDF: 13.1/17

Left In: 231.993 $\pm$ 409.952 χ^2 /NDF:10.6/14

Left: -897.272 $\pm$ 287.169 χ^2 /NDF: 69.6/30

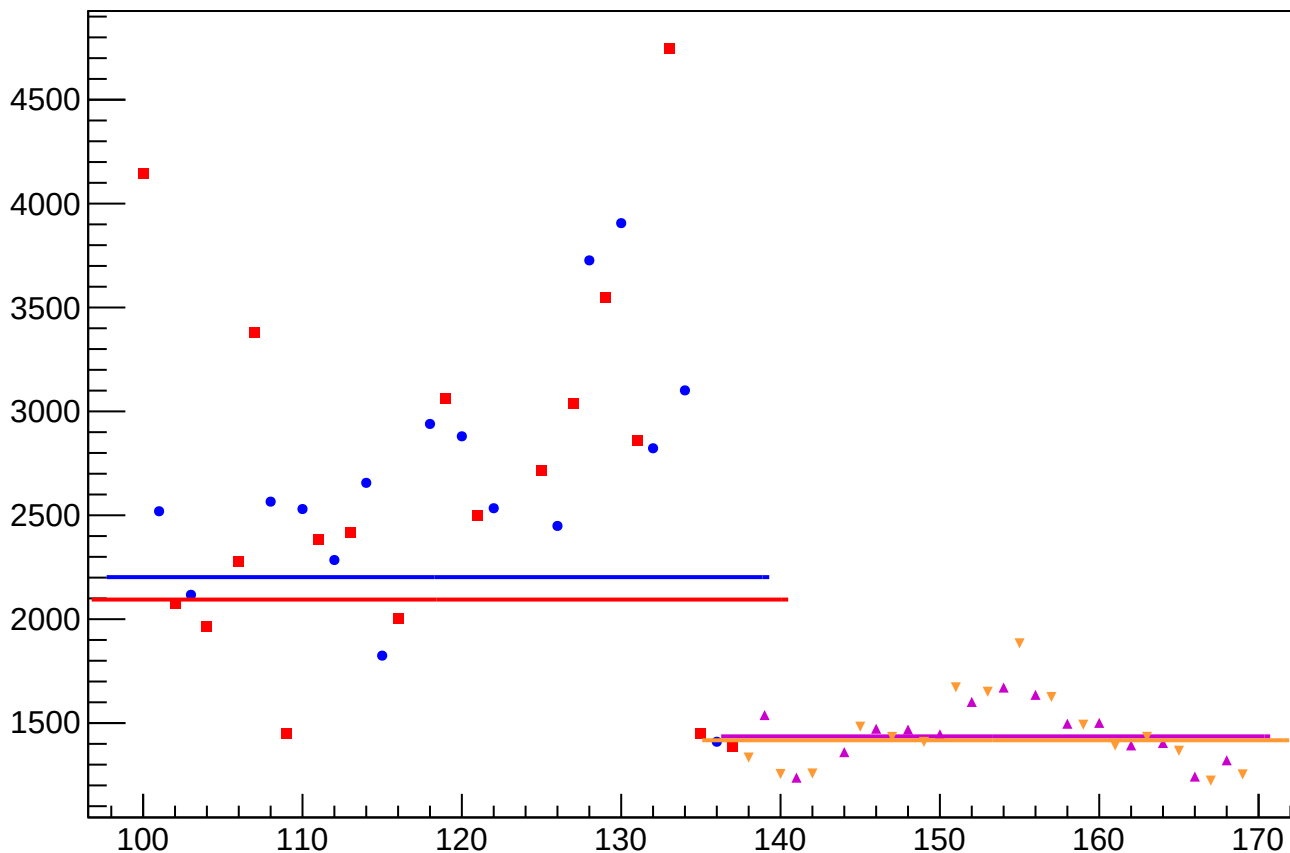
Right: -98.133 $\pm$ 593.299 χ^2 /NDF: 41.3/33

In: -102.015 $\pm$ 370.038 χ^2 /NDF:36.8/30

Out: -1358.855 $\pm$ 361.220 χ^2 /NDF:69.7/33

All: -745.589 $\pm$ 258.483 χ^2 /NDF: 112.4/64

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 2202.378+/-0.608 χ^2/NDF : 1222965.0/15

Left Out: 1417.282+/-0.285 χ^2/NDF : 326446.7/15

Right Out: 2094.445+/-0.580 χ^2/NDF : 1373676.8/17

Left In: 1436.059+/-0.290 χ^2/NDF : 187209.7/14

Left: 1426.496+/-0.203 χ^2/NDF : 515793.3/30

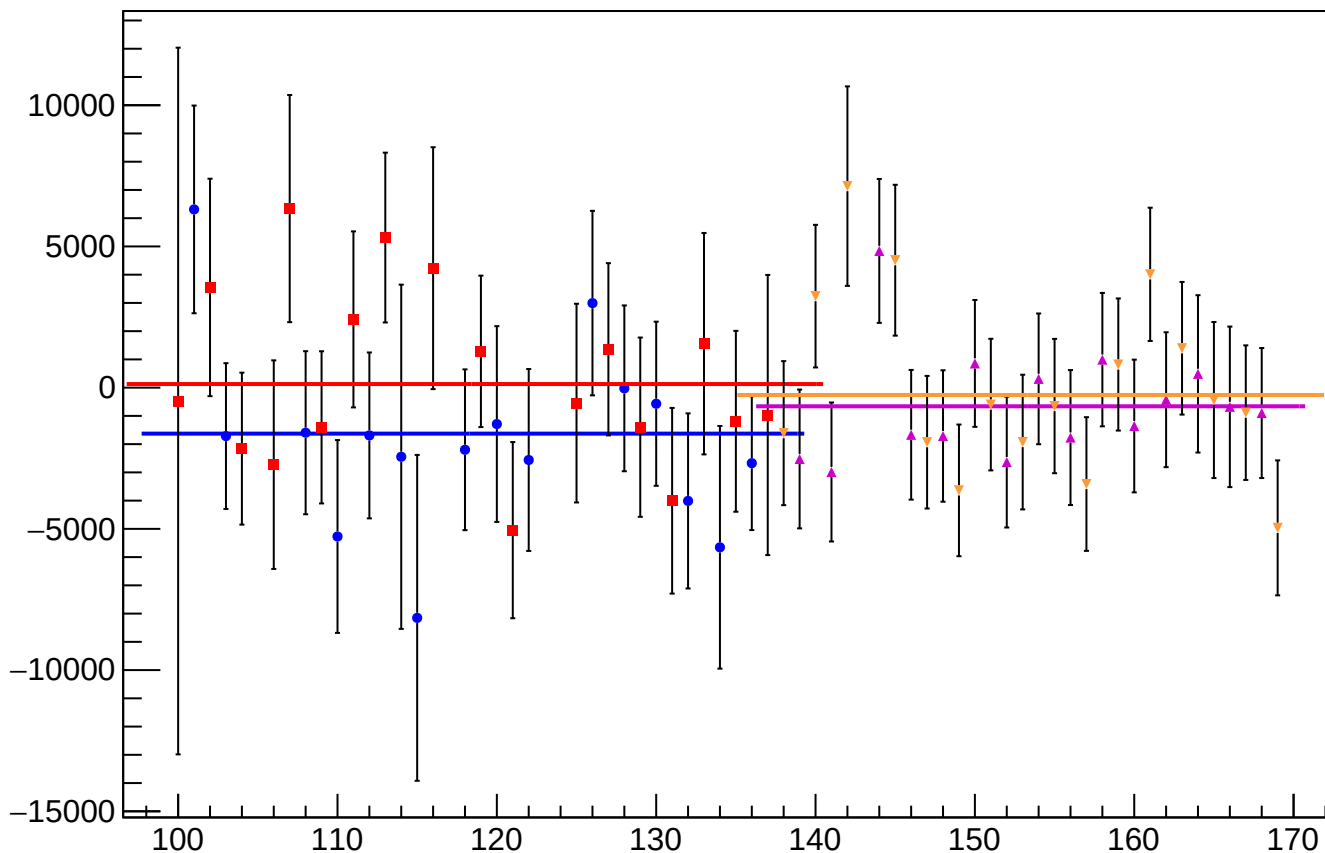
Right: 2145.844+/-0.420 χ^2/NDF : 2613152.0/33

In: 1578.015+/-0.262 χ^2/NDF : 2704754.5/30

Out: 1548.758+/-0.255 χ^2/NDF : 2799830.8/33

All: 1563.034+/-0.183 χ^2/NDF : 5510987.3/64

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1627.637 $\pm$ 797.966 χ^2 /NDF: 11.3/15

Left Out: -260.593 $\pm$ 615.681 χ^2 /NDF:22.6/15

Right Out: 128.093 $\pm$ 795.899 χ^2 /NDF: 14.6/17

Left In: -659.688 $\pm$ 622.266 χ^2 /NDF:8.9/14

Left: -458.018 $\pm$ 437.662 χ^2 /NDF: 31.7/30

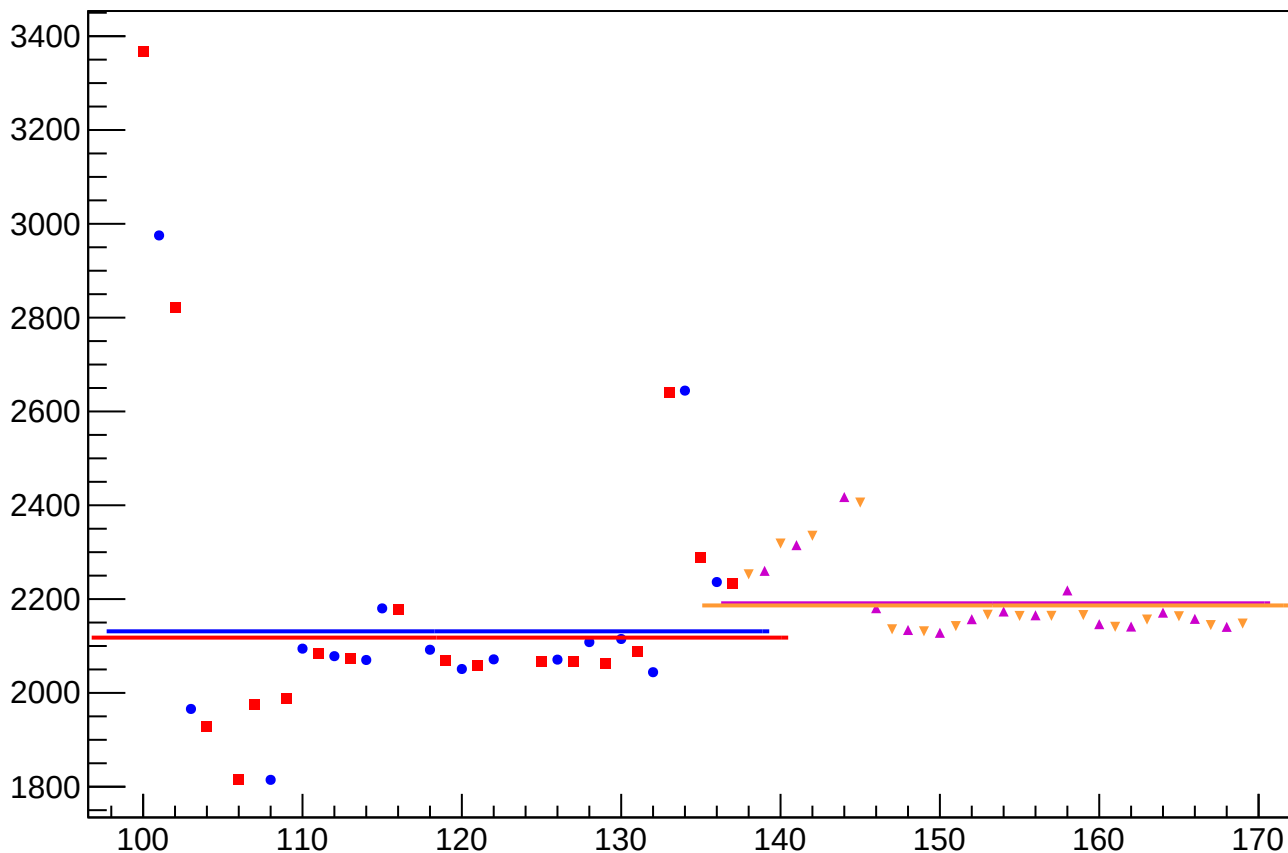
Right: -747.494 $\pm$ 563.515 χ^2 /NDF: 28.3/33

In: -1025.720 $\pm$ 490.702 χ^2 /NDF:21.1/30

Out: -115.078 $\pm$ 486.981 χ^2 /NDF:37.3/33

All: -566.933 $\pm$ 345.656 χ^2 /NDF: 60.2/64

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2131.298 $\pm$ 0.564 χ^2 /NDF: 175943.3/15

Left Out: 2186.462 $\pm$ 0.435 χ^2 /NDF: 29615.5/15

Right Out: 2117.868 $\pm$ 0.563 χ^2 /NDF: 163622.6/17

Left In: 2191.011 $\pm$ 0.440 χ^2 /NDF: 29223.2/14

Left: 2188.712 $\pm$ 0.309 χ^2 /NDF: 58892.7/30

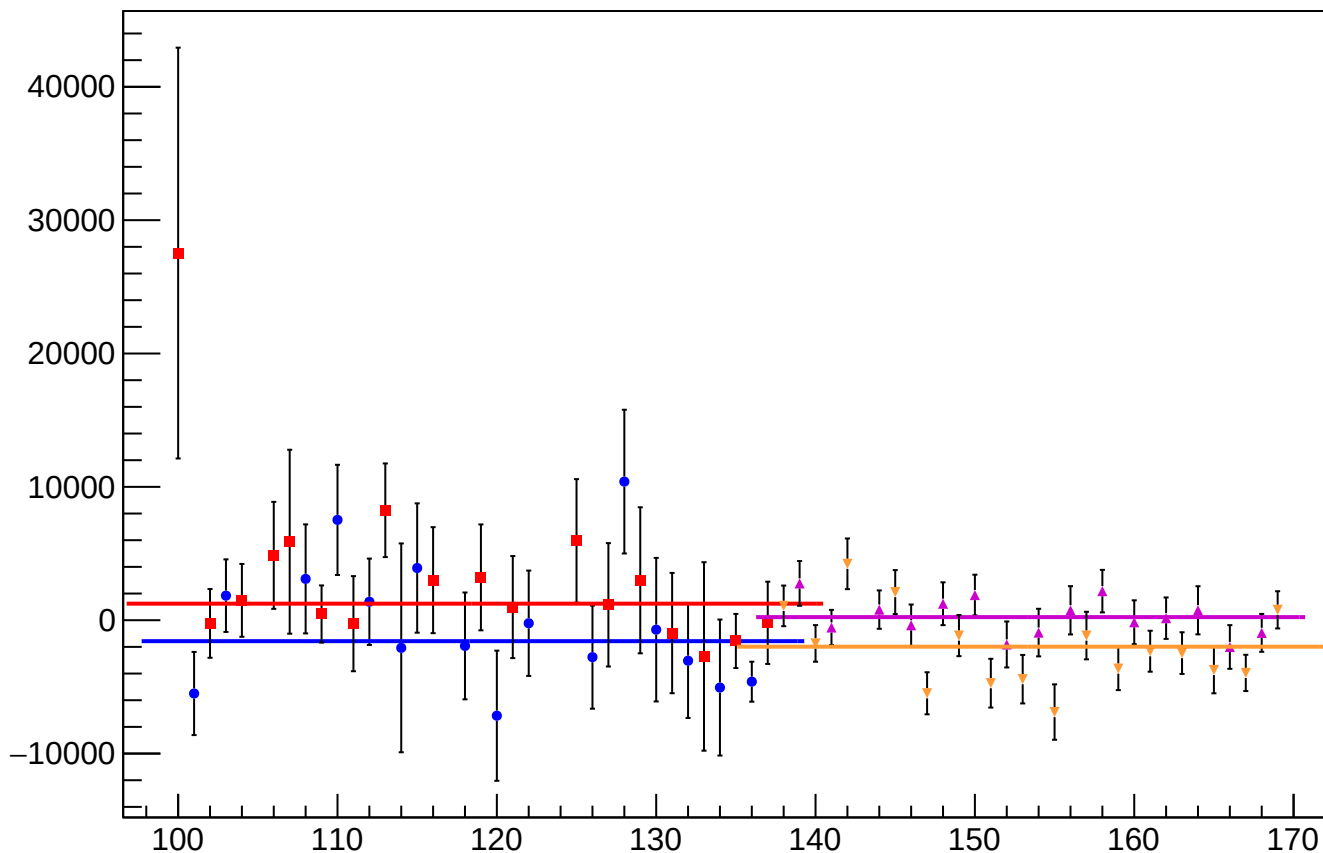
Right: 2124.565 $\pm$ 0.398 χ^2 /NDF: 339849.9/33

In: 2168.430 $\pm$ 0.347 χ^2 /NDF: 212130.7/30

Out: 2160.781 $\pm$ 0.344 χ^2 /NDF: 202532.1/33

All: 2164.577 $\pm$ 0.244 χ^2 /NDF: 414907.7/64

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1571.058 $\pm$ 859.757 χ^2 /NDF: 22.6/15

Left Out: -1985.268 $\pm$ 402.390 χ^2 /NDF:44.1/15

Right Out: 1241.023 $\pm$ 819.778 χ^2 /NDF: 13.1/17

Left In: 231.988 $\pm$ 409.952 χ^2 /NDF:10.6/14

Left: -897.277 $\pm$ 287.169 χ^2 /NDF: 69.6/30

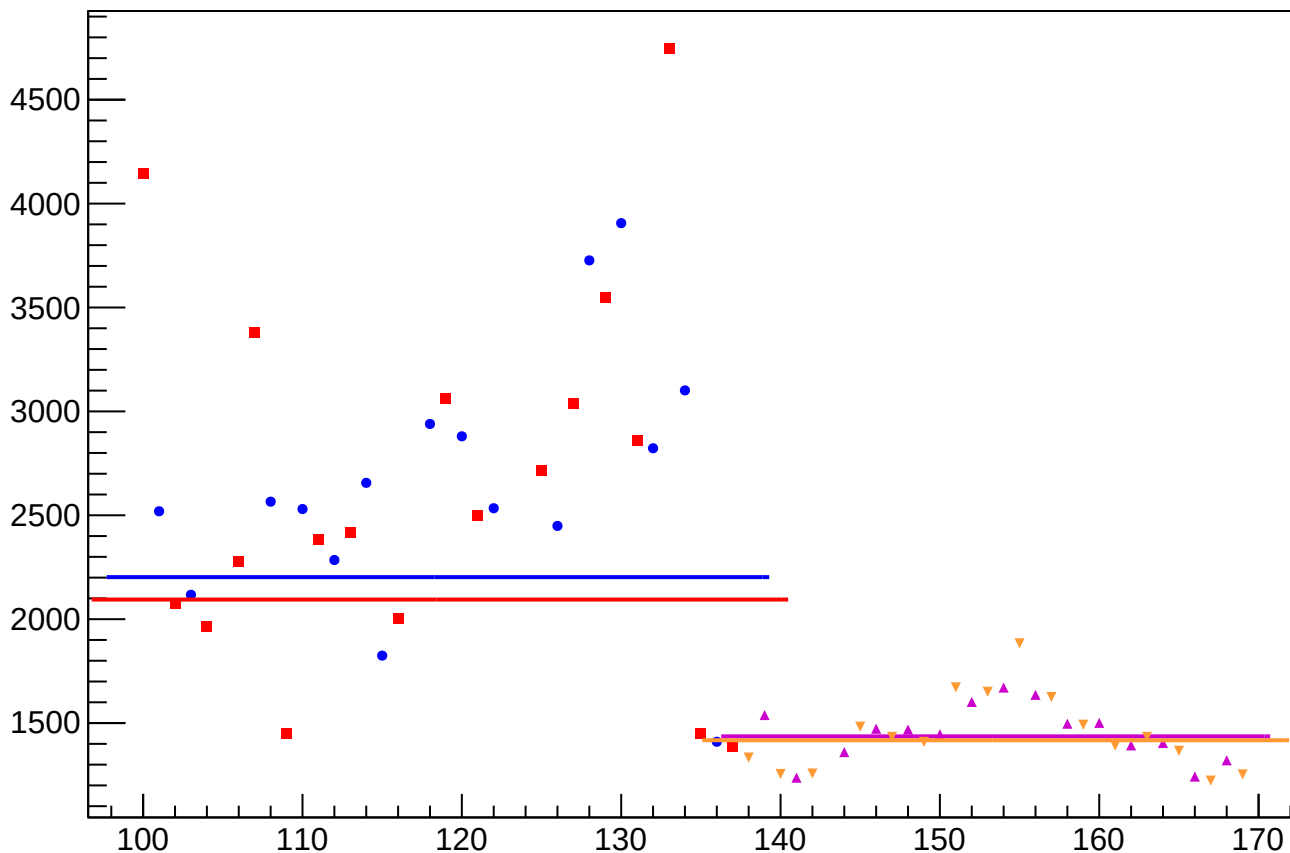
Right: -98.119 $\pm$ 593.301 χ^2 /NDF: 41.3/33

In: -102.014 $\pm$ 370.038 χ^2 /NDF:36.8/30

Out: -1358.862 $\pm$ 361.221 χ^2 /NDF:69.7/33

All: -745.591 $\pm$ 258.483 χ^2 /NDF: 112.4/64

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2202.391+/-0.608 χ^2/NDF : 1222905.3/15

Left Out: 1417.283+/-0.285 χ^2/NDF : 326440.8/15

Right Out: 2094.457+/-0.580 χ^2/NDF : 1373629.6/17

Left In: 1436.059+/-0.290 χ^2/NDF : 187214.2/14

Left: 1426.496+/-0.203 χ^2/NDF : 515791.7/30

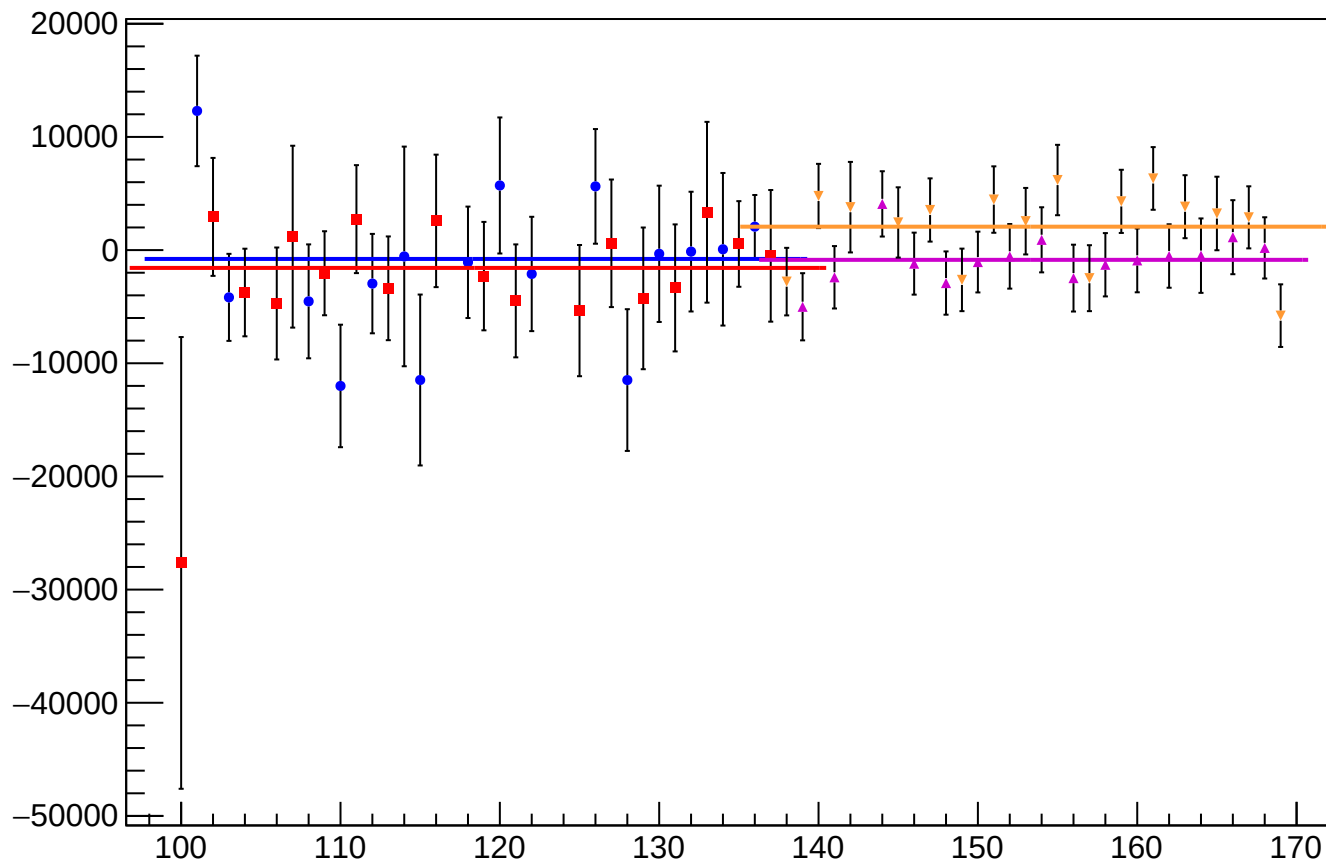
Right: 2145.856+/-0.420 χ^2/NDF : 2613045.0/33

In: 1578.017+/-0.262 χ^2/NDF : 2704735.9/30

Out: 1548.761+/-0.255 χ^2/NDF : 2799806.2/33

All: 1563.036+/-0.183 χ^2/NDF : 5510943.3/64

asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected



Right In: -781.619+/-1241.711 χ^2/NDF : 21.9/15

Left Out: 2069.067+/-733.051 χ^2/NDF : 23.5/15

Right Out: -1574.673+/-1218.961 χ^2/NDF : 6.7/17

Left In: -861.224+/-739.911 χ^2/NDF : 7.0/14

Left: 617.569+/-520.754 χ^2/NDF : 38.5/30

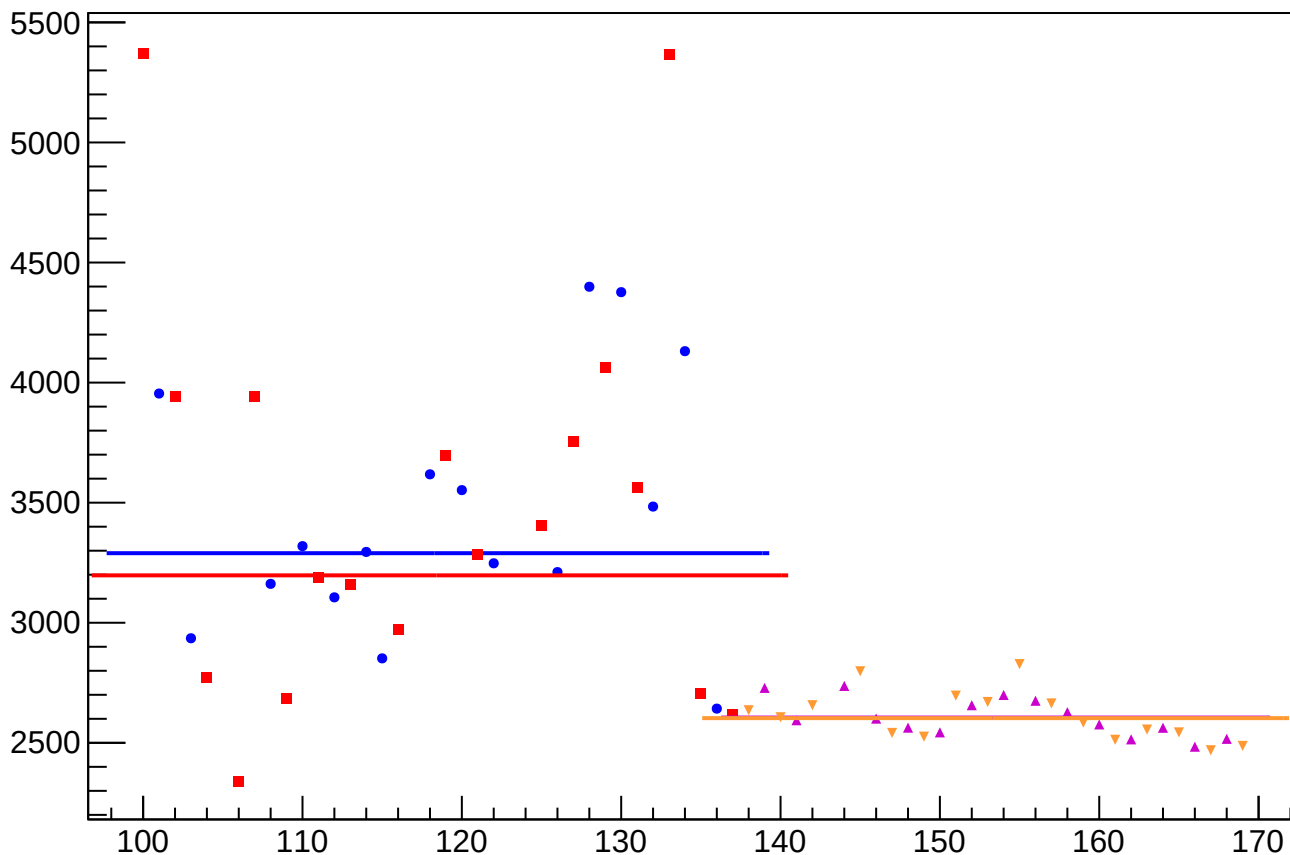
Right: -1185.478+/-869.867 χ^2/NDF : 28.8/33

In: -840.365+/-635.621 χ^2/NDF : 28.9/30

Out: 1101.300+/-628.205 χ^2/NDF : 36.8/33

All: 141.861+/-446.807 χ^2/NDF : 70.5/64

asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected



Right In: 3289.690+/-0.878 χ^2/NDF : 347594.0/15

Left Out: 2602.855+/-0.518 χ^2/NDF : 37195.4/15

Right Out: 3197.375+/-0.862 χ^2/NDF : 499934.1/17

Left In: 2605.245+/-0.523 χ^2/NDF : 20756.6/14

Left: 2604.039+/-0.368 χ^2/NDF : 57962.6/30

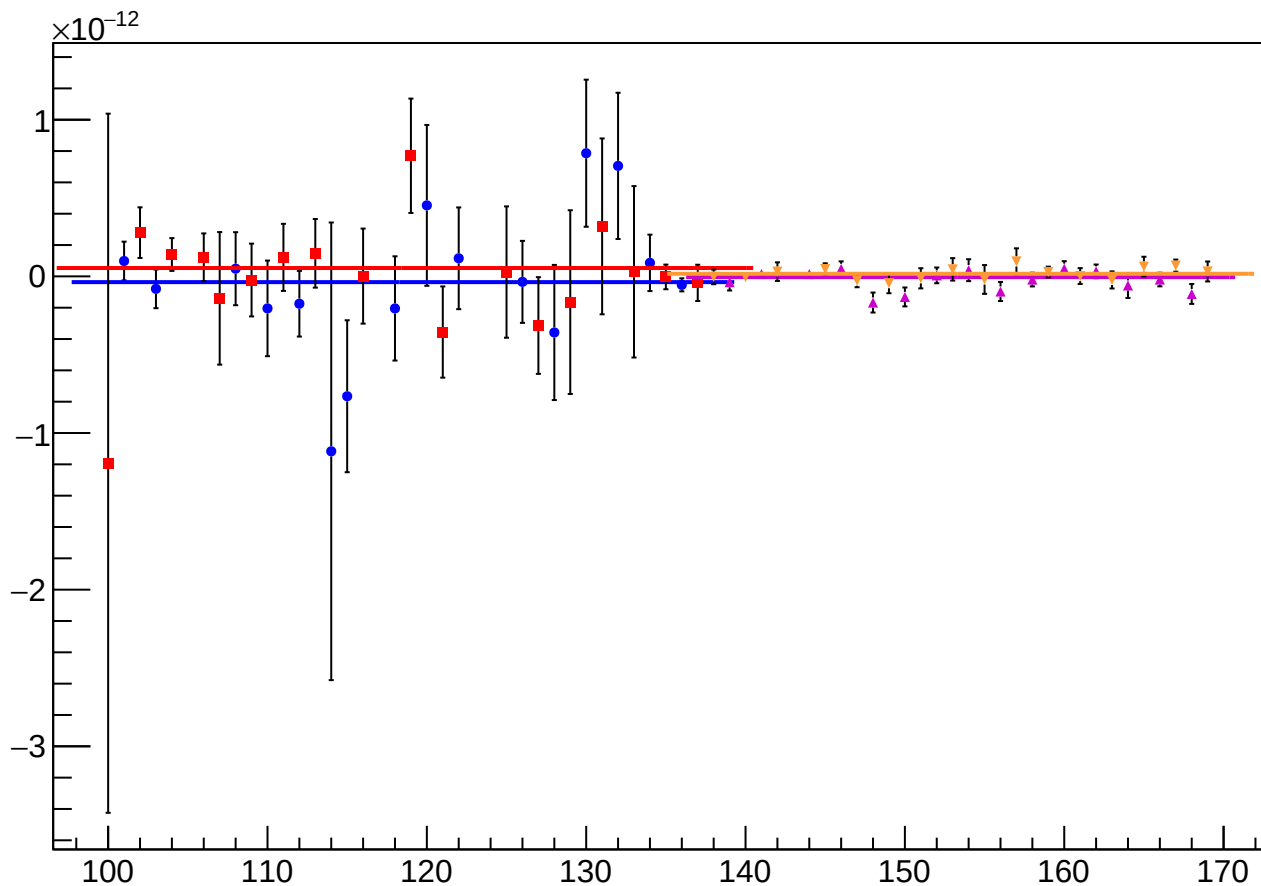
Right: 3242.678+/-0.615 χ^2/NDF : 853157.4/33

In: 2784.592+/-0.449 χ^2/NDF : 816789.6/30

Out: 2760.761+/-0.444 χ^2/NDF : 886533.2/33

All: 2772.537+/-0.316 χ^2/NDF : 1704745.0/64

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 13.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 7.8/15

Right Out: 0.000+/-0.000 χ^2/NDF : 12.6/17

Left In: -0.000+/-0.000 χ^2/NDF : 22.3/14

Left: 0.000+/-0.000 χ^2/NDF : 31.9/30

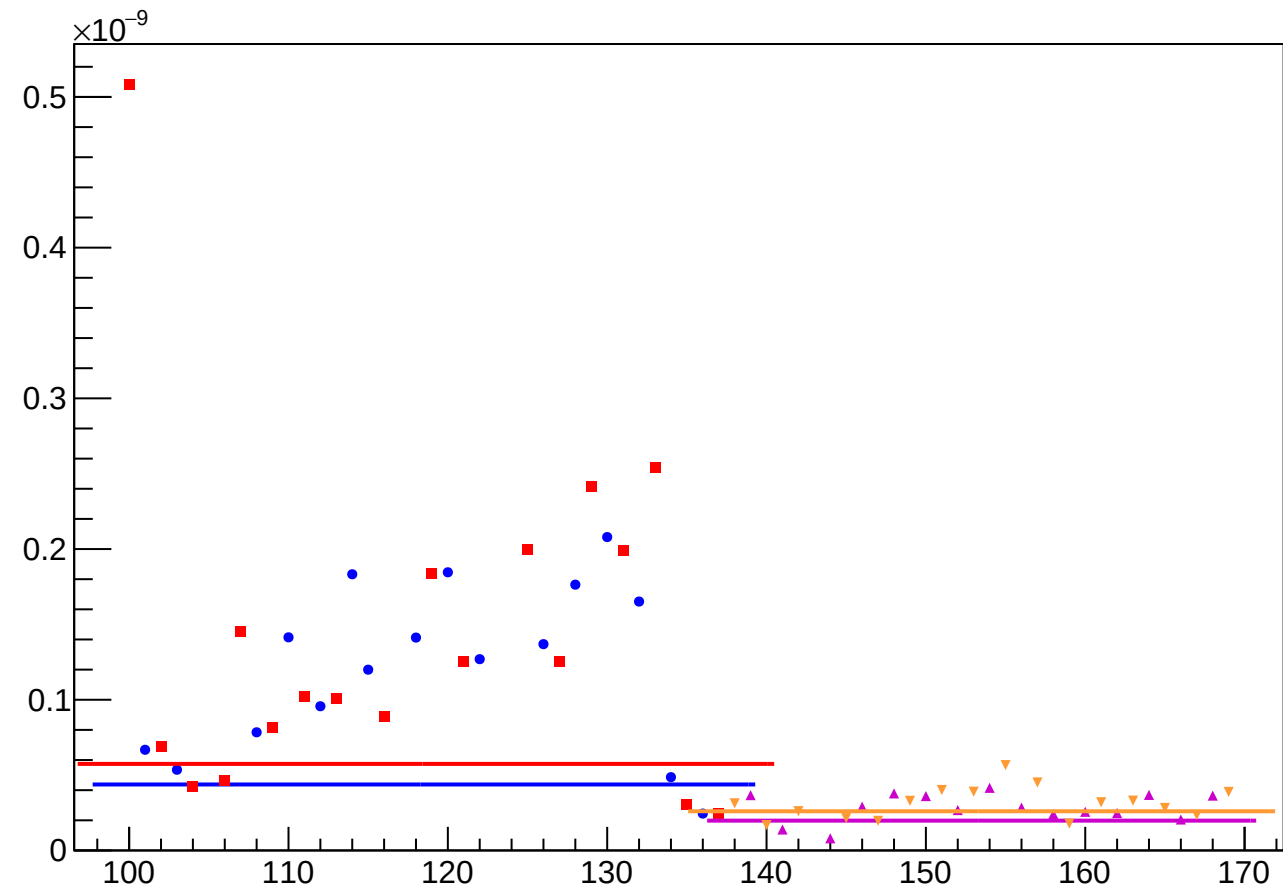
Right: -0.000+/-0.000 χ^2/NDF : 28.4/33

In: -0.000+/-0.000 χ^2/NDF : 36.3/30

Out: 0.000+/-0.000 χ^2/NDF : 21.1/33

All: 0.000+/-0.000 χ^2/NDF : 60.3/64

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2227887.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :1050691.6/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2086696.1/17

Left In: 0.000+/-0.000 χ^2/NDF :2095408.9/14

Left: 0.000+/-0.000 χ^2/NDF : 3442568.7/30

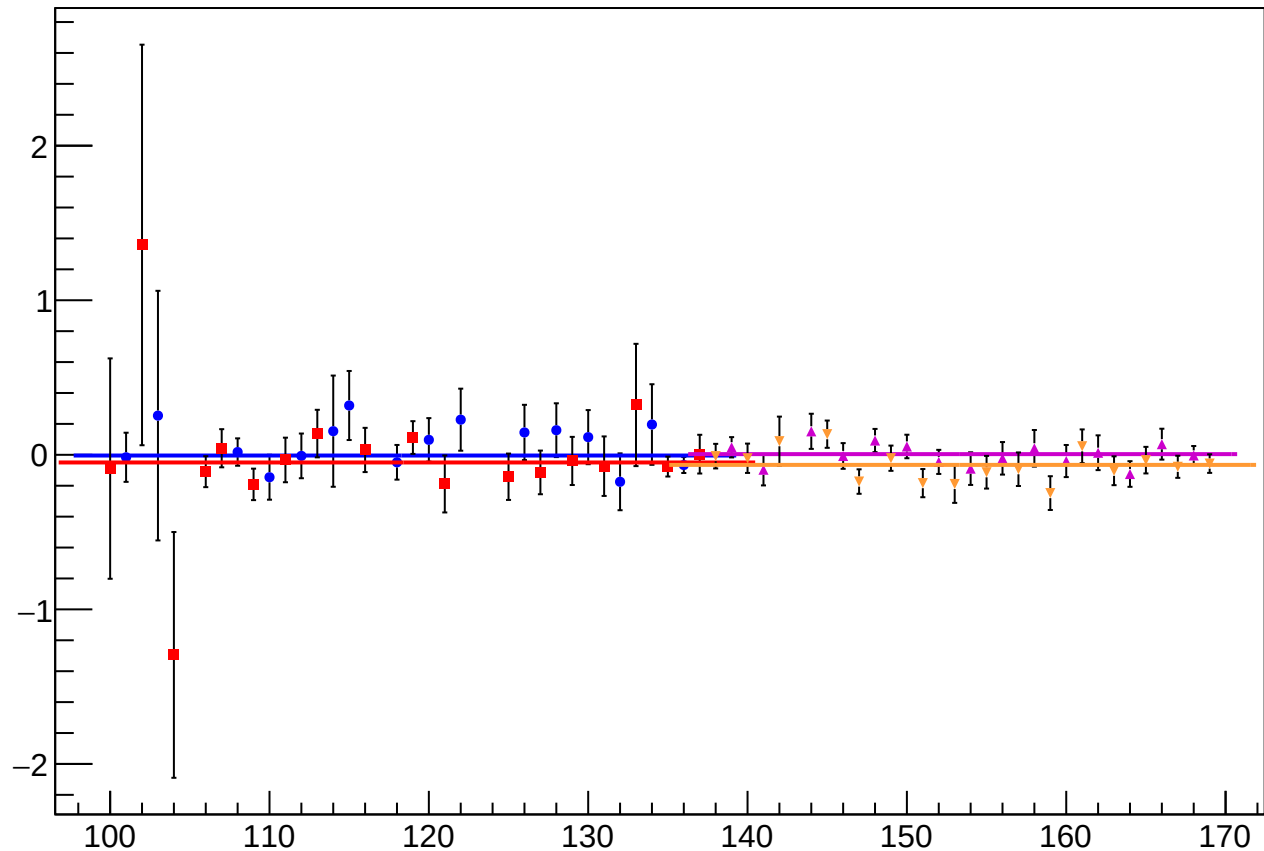
Right: 0.000+/-0.000 χ^2/NDF : 4436407.3/33

In: 0.000+/-0.000 χ^2/NDF :5213125.2/30

Out: 0.000+/-0.000 χ^2/NDF :4111310.8/33

All: 0.000+/-0.000 χ^2/NDF : 9668223.8/64

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.032 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.065 ± 0.022 $\chi^2/\text{NDF}: 16.2/15$

Right Out: -0.050 ± 0.032 $\chi^2/\text{NDF}: 13.0/17$

Left In: 0.004 ± 0.022 $\chi^2/\text{NDF}: 9.3/14$

Left: -0.030 ± 0.016 $\chi^2/\text{NDF}: 30.4/30$

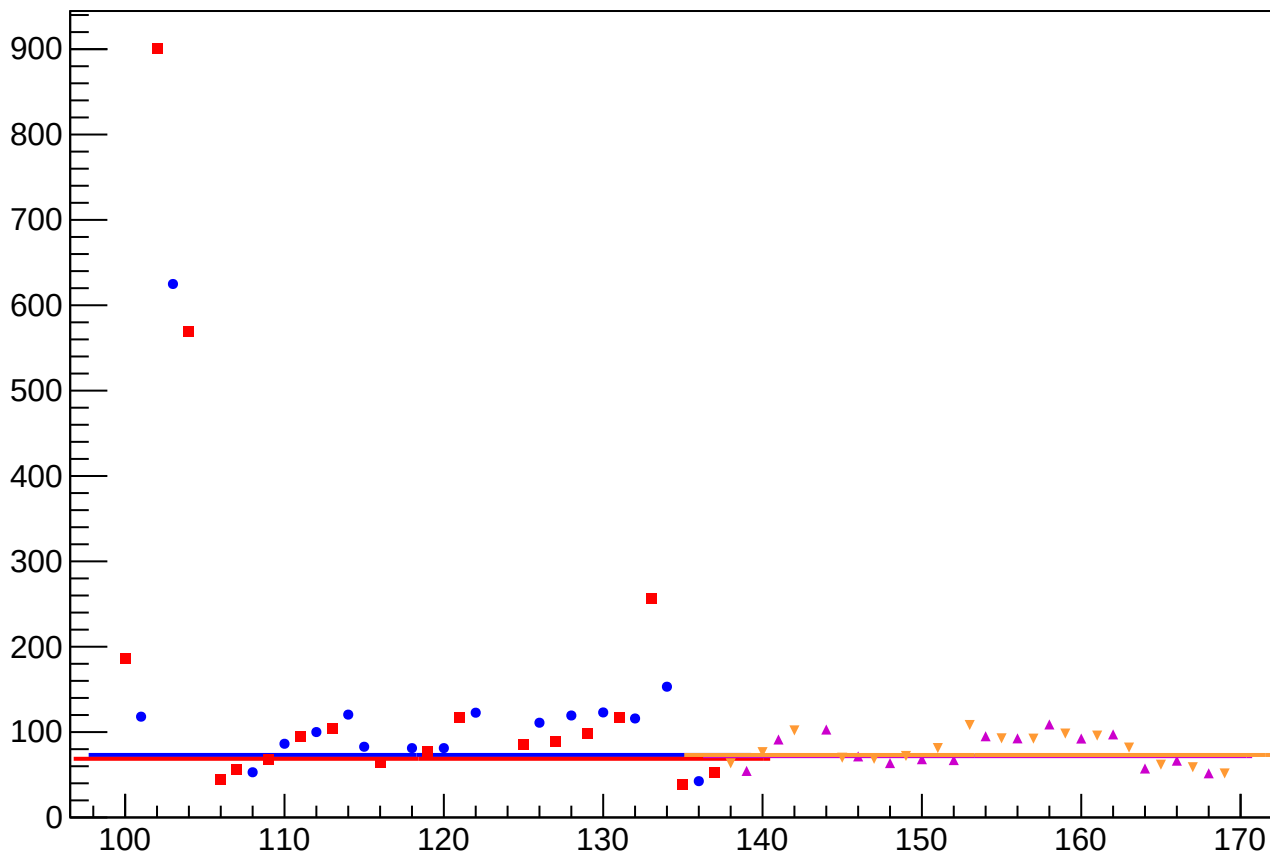
Right: -0.027 ± 0.023 $\chi^2/\text{NDF}: 24.3/33$

In: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.7/30$

Out: -0.060 ± 0.018 $\chi^2/\text{NDF}: 29.4/33$

All: -0.029 ± 0.013 $\chi^2/\text{NDF}: 54.7/64$

asym_us_dd_at2lr_dd_avg_dit_vs_slug, Sign Corrected



Right In: 73.234+/-0.023 χ^2/NDF : 2854601.2/15

Left Out: 73.190+/-0.016 χ^2/NDF : 1002568.3/15

Right Out: 68.724+/-0.022 χ^2/NDF : 3331744.2/17

Left In: 71.810+/-0.016 χ^2/NDF : 1234975.1/14

Left: 72.500+/-0.011 χ^2/NDF : 2241351.8/30

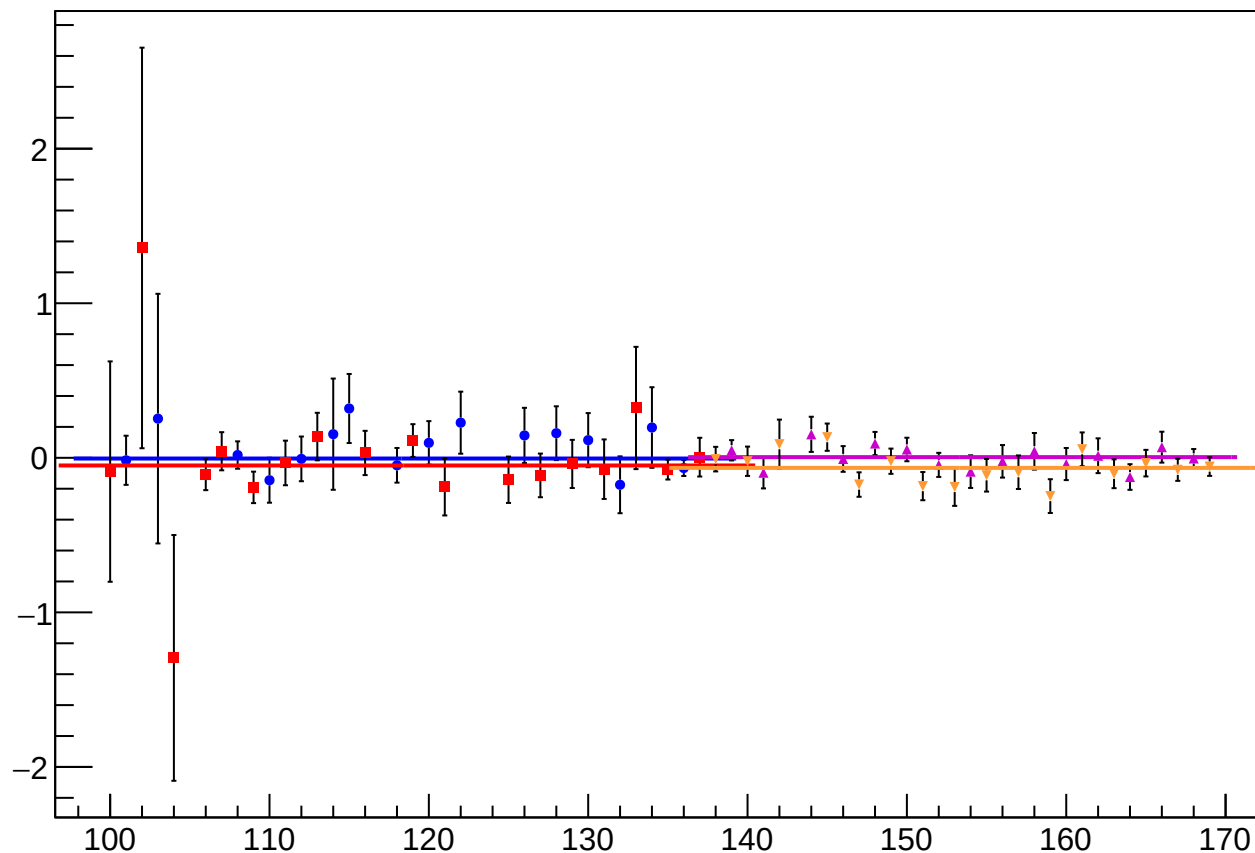
Right: 70.939+/-0.016 χ^2/NDF : 6206281.8/33

In: 72.273+/-0.013 χ^2/NDF : 4092213.3/30

Out: 71.703+/-0.013 χ^2/NDF : 4360859.3/33

All: 71.986+/-0.009 χ^2/NDF : 8454041.0/64

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.032 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.065 ± 0.022 $\chi^2/\text{NDF}: 16.2/15$

Right Out: -0.050 ± 0.032 $\chi^2/\text{NDF}: 13.0/17$

Left In: 0.004 ± 0.022 $\chi^2/\text{NDF}: 9.3/14$

Left: -0.030 ± 0.016 $\chi^2/\text{NDF}: 30.4/30$

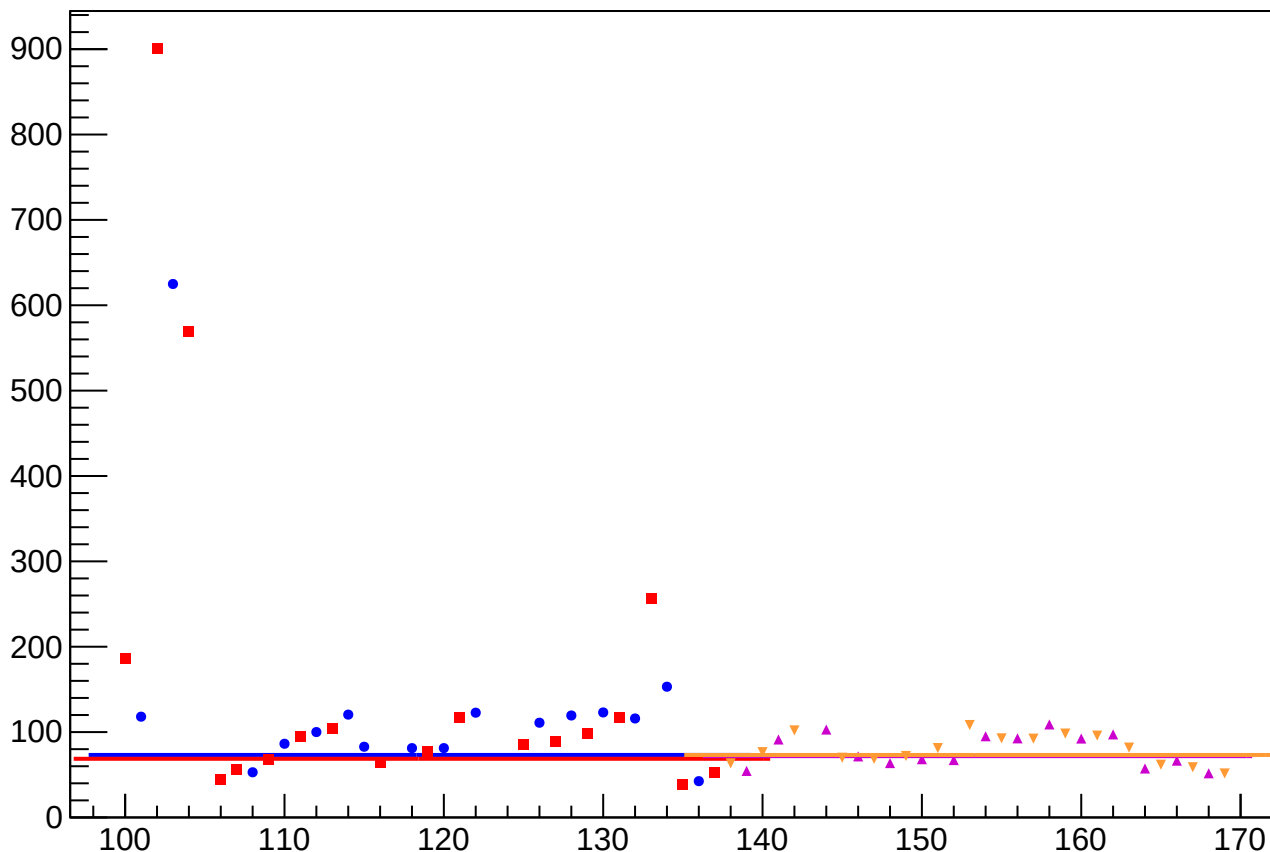
Right: -0.027 ± 0.023 $\chi^2/\text{NDF}: 24.3/33$

In: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.7/30$

Out: -0.060 ± 0.018 $\chi^2/\text{NDF}: 29.4/33$

All: -0.029 ± 0.013 $\chi^2/\text{NDF}: 54.7/64$

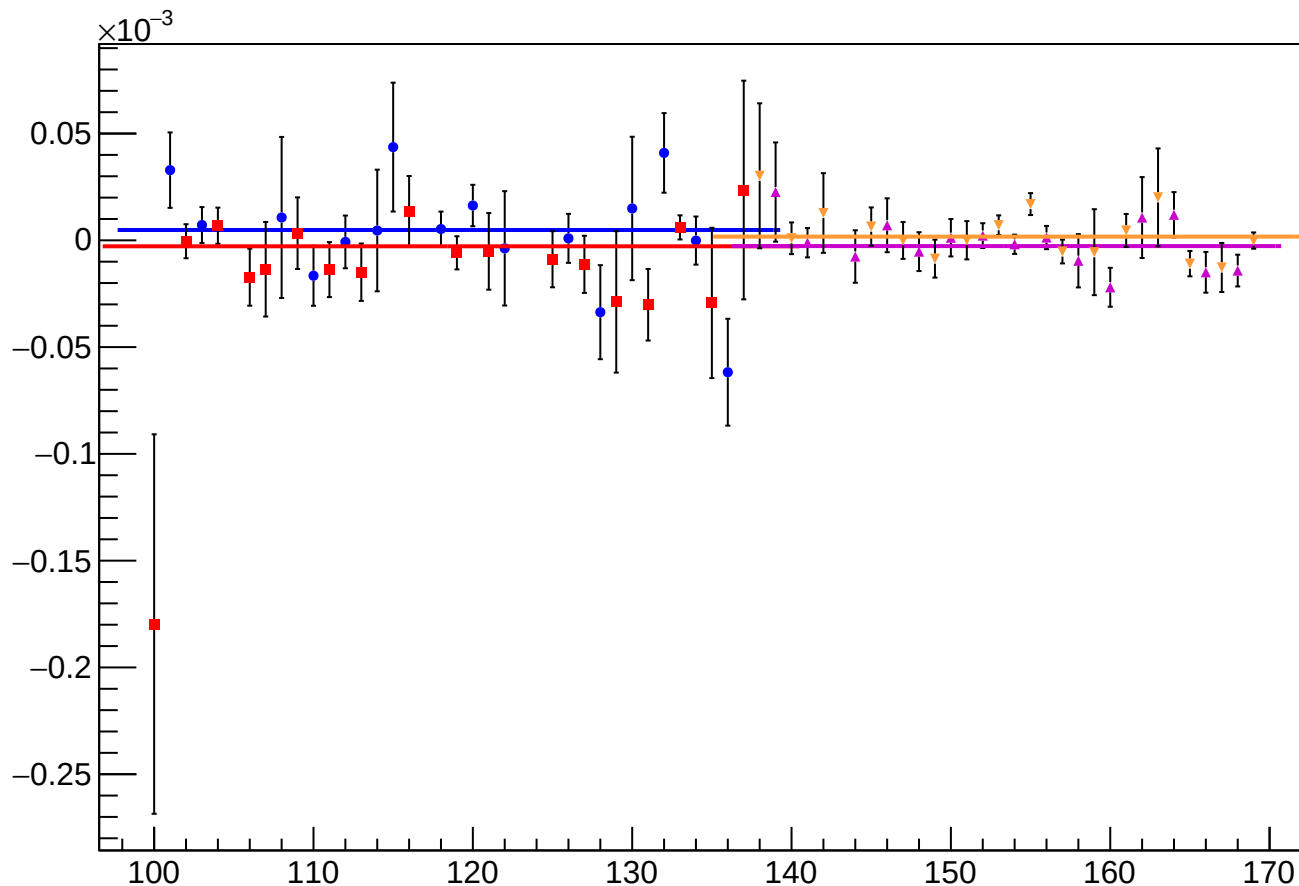
asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 73.234+/-0.023 χ^2/NDF : 2854601.2/15
 Left Out: 73.190+/-0.016 χ^2/NDF : 1002568.3/15
 Right Out: 68.724+/-0.022 χ^2/NDF : 3331744.2/17
 Left In: 71.810+/-0.016 χ^2/NDF : 1234975.1/14

Left: 72.500+/-0.011 χ^2/NDF : 2241351.8/30
 Right: 70.939+/-0.016 χ^2/NDF : 6206281.8/33
 In: 72.273+/-0.013 χ^2/NDF : 4092213.3/30
 Out: 71.703+/-0.013 χ^2/NDF : 4360859.3/33
 All: 71.986+/-0.009 χ^2/NDF : 8454041.0/64

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 22.6/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:21.8/15

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 16.8/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:14.8/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 39.2/30

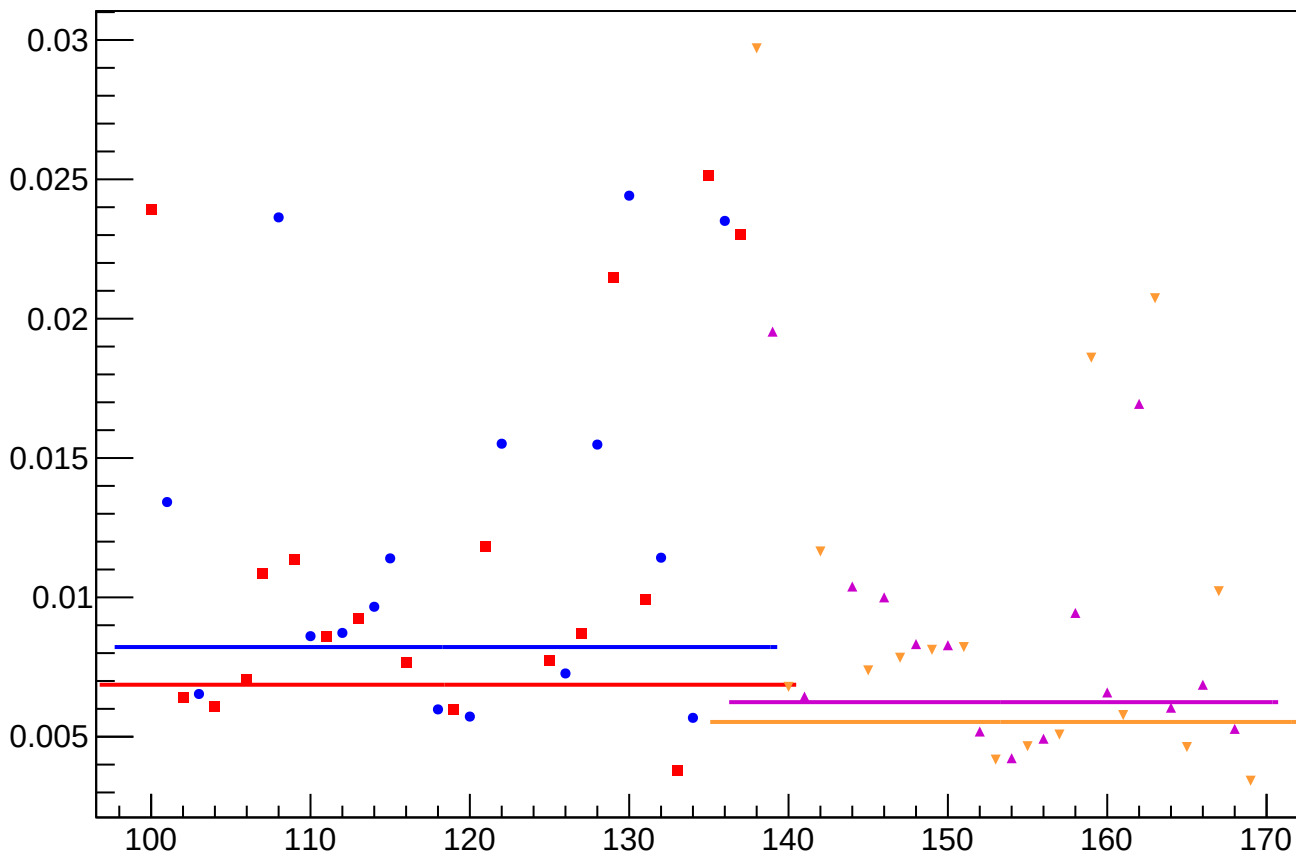
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 42.2/33

In: -0.000 $\pm$ 0.000 χ^2 /NDF:40.8/30

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:40.4/33

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 81.5/64

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 2656170.2/15

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 4828527.3/15

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 2426444.0/17

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF: 2670670.7/14

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 7634630.9/30

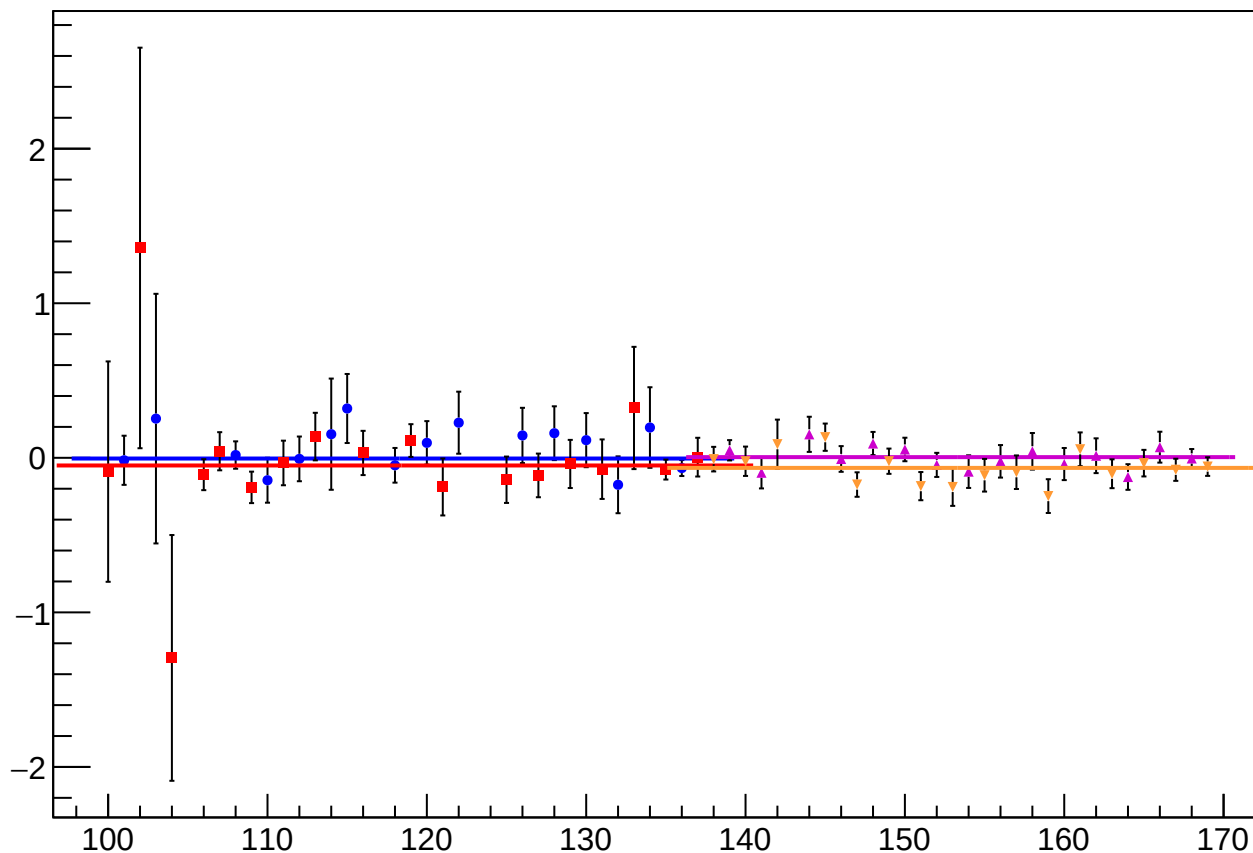
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 5263403.5/33

In: 0.007 $\pm$ 0.000 χ^2 /NDF: 5801131.7/30

Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 7573625.7/33

All: 0.006 $\pm$ 0.000 χ^2 /NDF: 13639465.7/64

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.032 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.065 ± 0.022 $\chi^2/\text{NDF}: 16.2/15$

Right Out: -0.050 ± 0.032 $\chi^2/\text{NDF}: 13.0/17$

Left In: 0.004 ± 0.022 $\chi^2/\text{NDF}: 9.3/14$

Left: -0.030 ± 0.016 $\chi^2/\text{NDF}: 30.4/30$

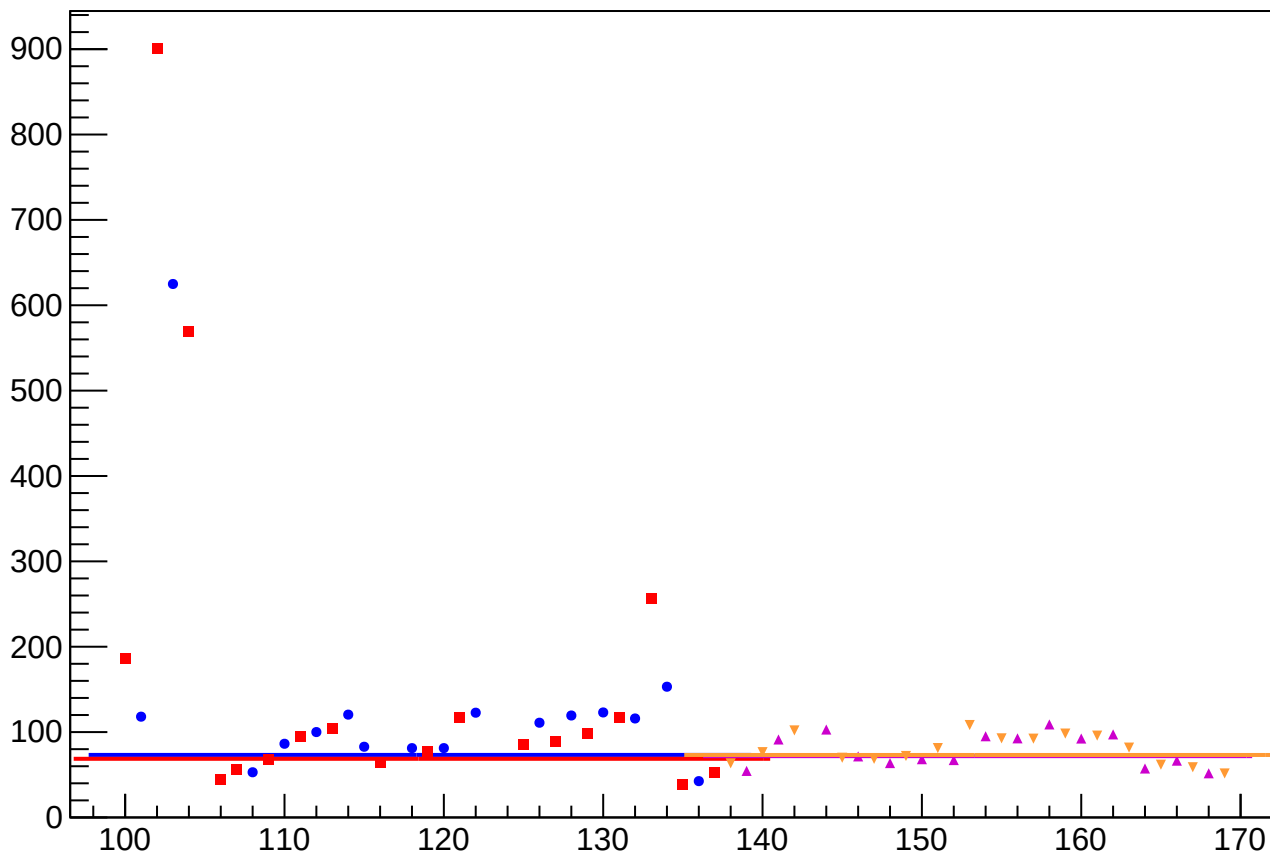
Right: -0.027 ± 0.023 $\chi^2/\text{NDF}: 24.3/33$

In: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.7/30$

Out: -0.060 ± 0.018 $\chi^2/\text{NDF}: 29.4/33$

All: -0.029 ± 0.013 $\chi^2/\text{NDF}: 54.7/64$

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 73.260+/-0.023 χ^2/NDF : 2852306.8/15

Left Out: 73.190+/-0.016 χ^2/NDF : 1002478.9/15

Right Out: 68.713+/-0.022 χ^2/NDF : 3332744.7/17

Left In: 71.812+/-0.016 χ^2/NDF : 1234724.9/14

Left: 72.500+/-0.011 χ^2/NDF : 2241003.2/30

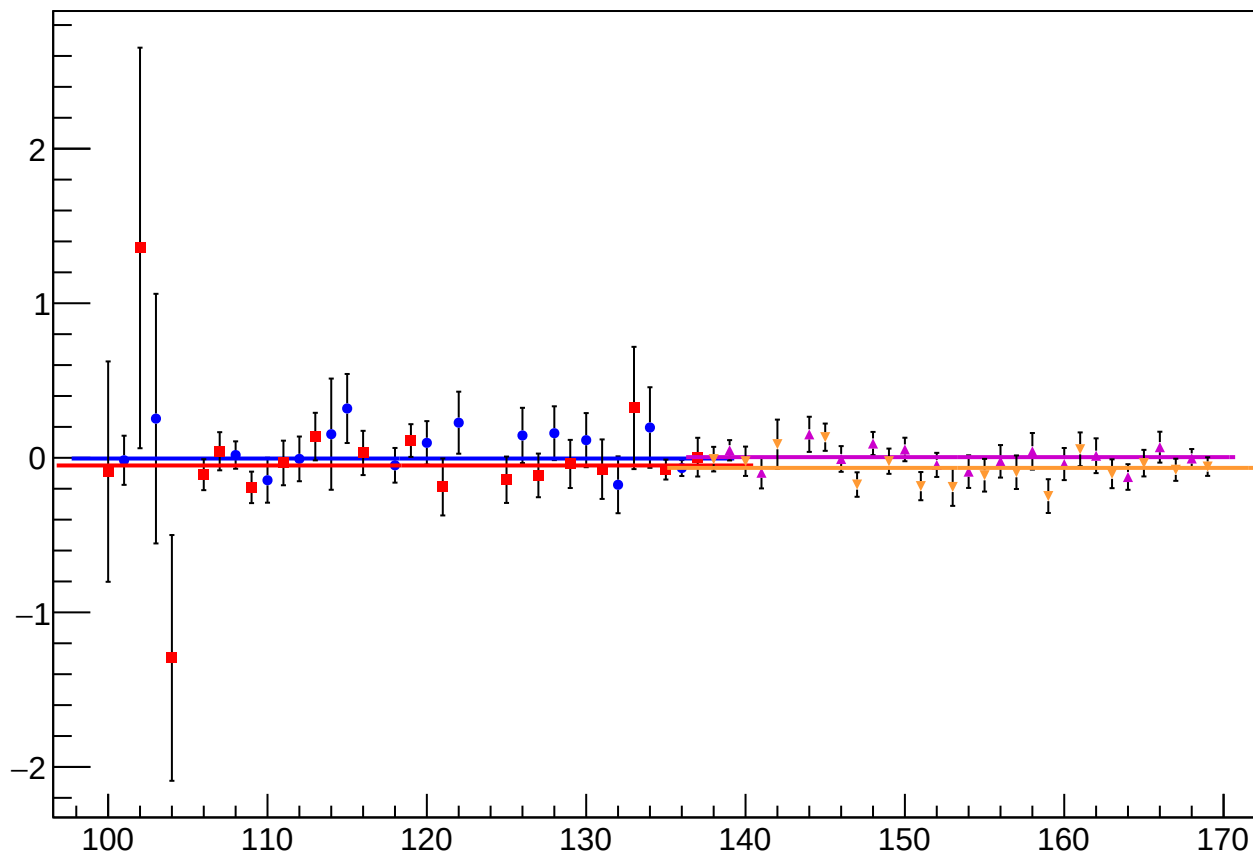
Right: 70.945+/-0.016 χ^2/NDF : 6205307.5/33

In: 72.282+/-0.013 χ^2/NDF : 4089756.5/30

Out: 71.699+/-0.013 χ^2/NDF : 4361903.4/33

All: 71.989+/-0.009 χ^2/NDF : 8452673.0/64

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.005 ± 0.032 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -0.065 ± 0.022 $\chi^2/\text{NDF}: 16.2/15$

Right Out: -0.050 ± 0.032 $\chi^2/\text{NDF}: 13.0/17$

Left In: 0.004 ± 0.022 $\chi^2/\text{NDF}: 9.3/14$

Left: -0.030 ± 0.016 $\chi^2/\text{NDF}: 30.4/30$

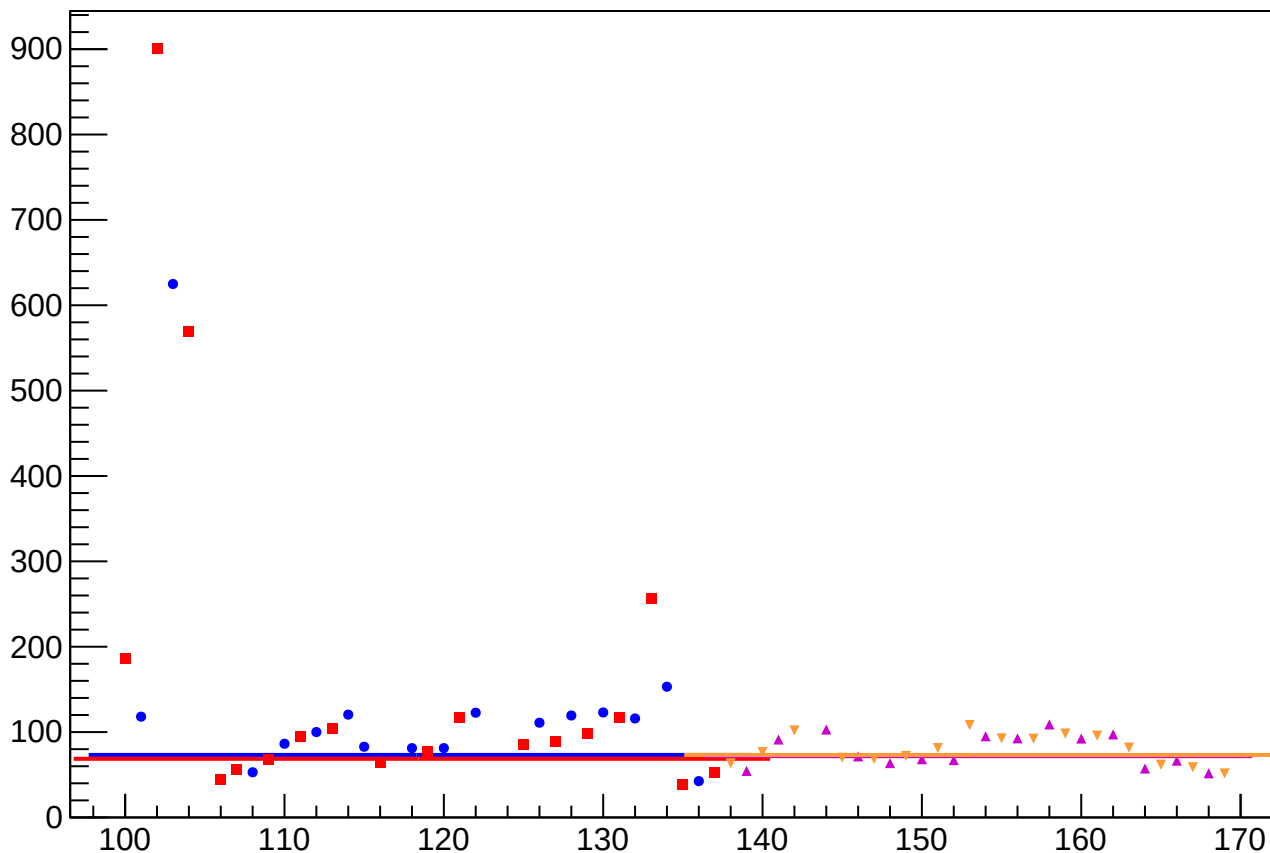
Right: -0.027 ± 0.023 $\chi^2/\text{NDF}: 24.3/33$

In: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.7/30$

Out: -0.060 ± 0.018 $\chi^2/\text{NDF}: 29.4/33$

All: -0.029 ± 0.013 $\chi^2/\text{NDF}: 54.7/64$

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 73.260 $\pm$ 0.023 χ^2 /NDF: 2852306.8/15

Left Out: 73.190 $\pm$ 0.016 χ^2 /NDF: 1002478.9/15

Right Out: 68.713 $\pm$ 0.022 χ^2 /NDF: 3332744.7/17

Left In: 71.812 $\pm$ 0.016 χ^2 /NDF: 1234724.9/14

Left: 72.500 $\pm$ 0.011 χ^2 /NDF: 2241003.2/30

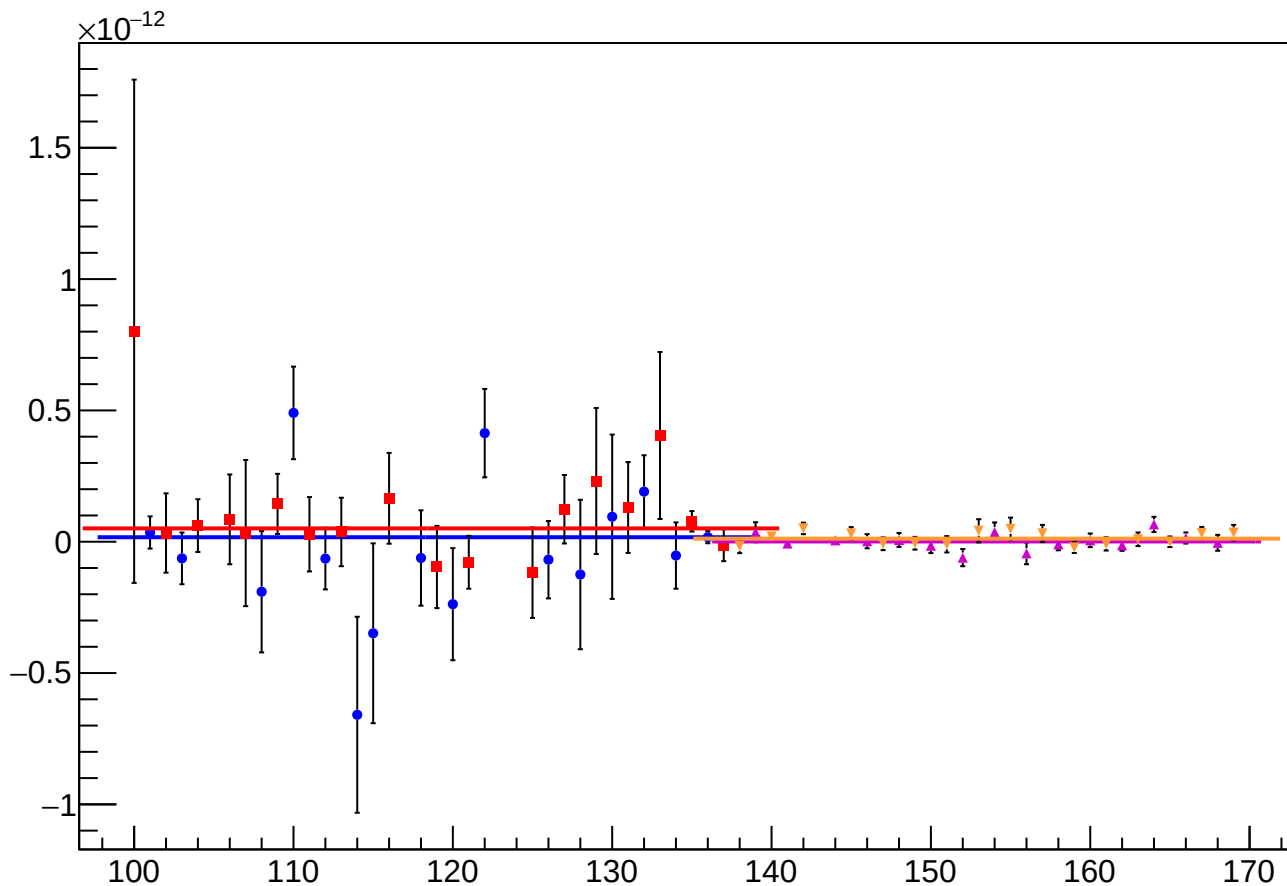
Right: 70.945 $\pm$ 0.016 χ^2 /NDF: 6205307.5/33

In: 72.282 $\pm$ 0.013 χ^2 /NDF: 4089756.5/30

Out: 71.699 $\pm$ 0.013 χ^2 /NDF: 4361903.4/33

All: 71.989 $\pm$ 0.009 χ^2 /NDF: 8452673.0/64

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :13.2/15

Right Out: 0.000+/-0.000 χ^2/NDF : 9.1/17

Left In: 0.000+/-0.000 χ^2/NDF :13.3/14

Left: 0.000+/-0.000 χ^2/NDF : 28.0/30

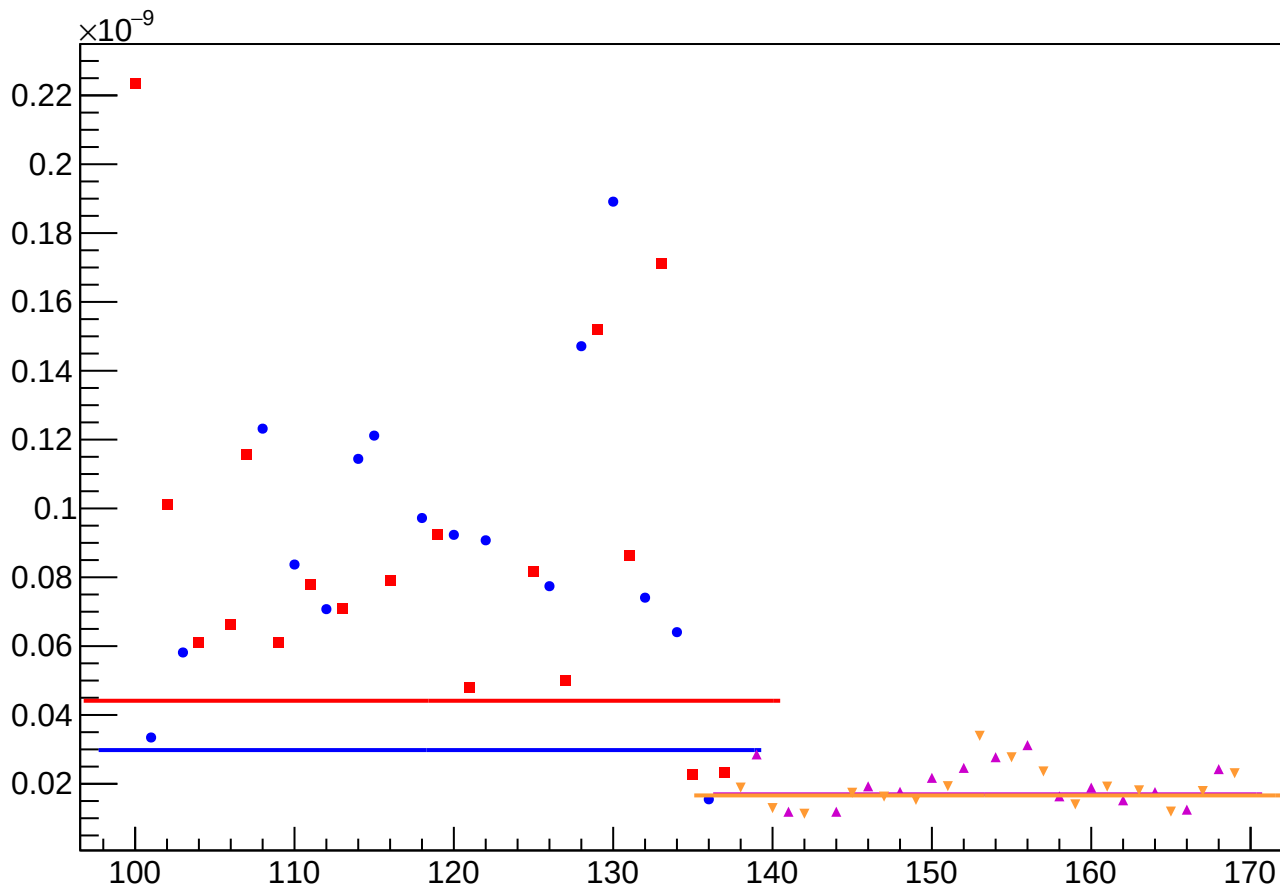
Right: 0.000+/-0.000 χ^2/NDF : 33.6/33

In: 0.000+/-0.000 χ^2/NDF :37.3/30

Out: 0.000+/-0.000 χ^2/NDF :24.5/33

All: 0.000+/-0.000 χ^2/NDF : 63.7/64

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4079776.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1050265.4/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2779318.5/17

Left In: 0.000+/-0.000 χ^2/NDF :1402138.1/14

Left: 0.000+/-0.000 χ^2/NDF : 2454979.0/30

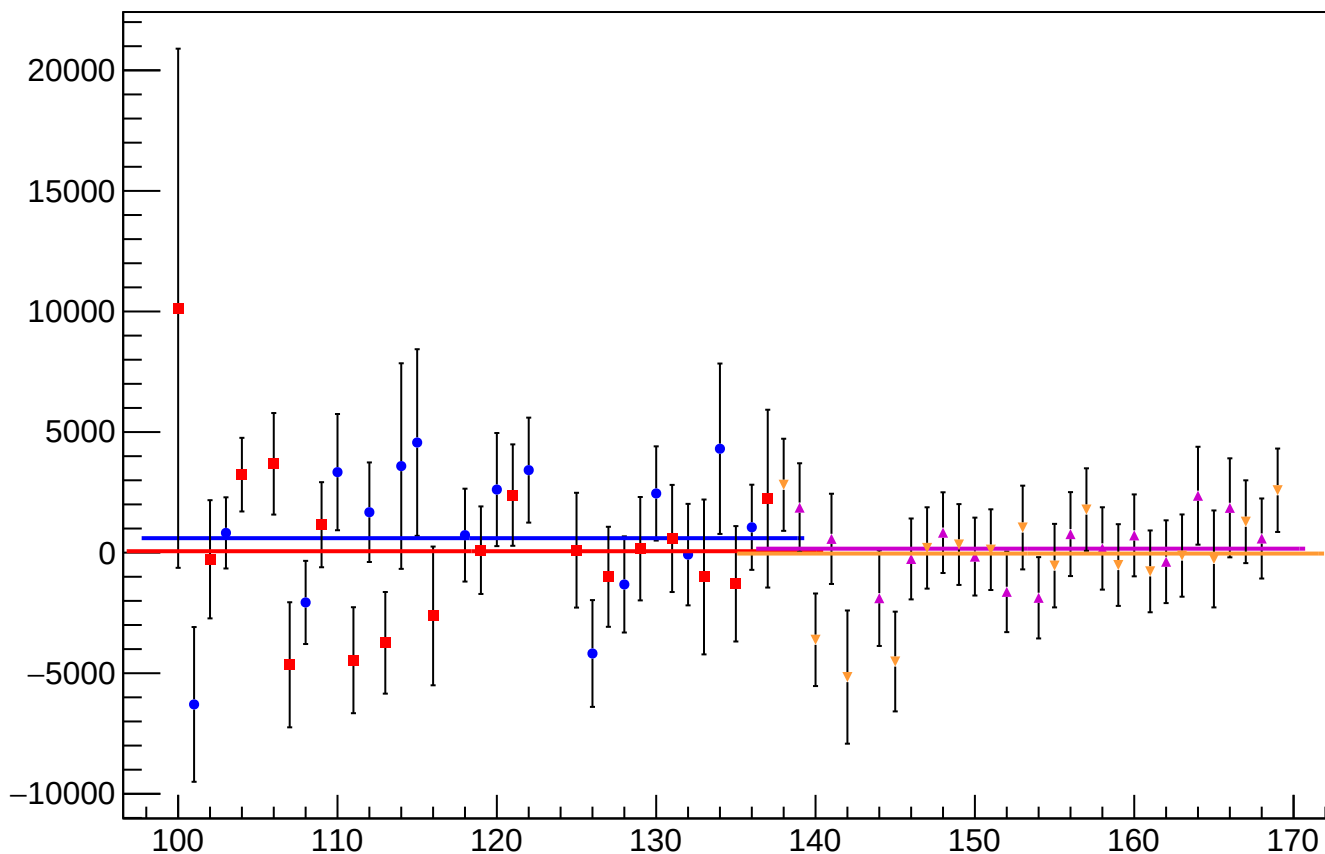
Right: 0.000+/-0.000 χ^2/NDF : 7274202.8/33

In: 0.000+/-0.000 χ^2/NDF :6278716.8/30

Out: 0.000+/-0.000 χ^2/NDF :6143165.5/33

All: 0.000+/-0.000 χ^2/NDF : 12421978.8/64

reg_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 600.146 $\pm$ 540.053 χ^2 /NDF: 20.3/15

Left Out: -38.110 $\pm$ 449.793 χ^2 /NDF:18.7/15

Right Out: 59.091 $\pm$ 530.206 χ^2 /NDF: 22.5/17

Left In: 164.796 $\pm$ 454.396 χ^2 /NDF:7.1/14

Left: 62.310 $\pm$ 319.667 χ^2 /NDF: 25.9/30

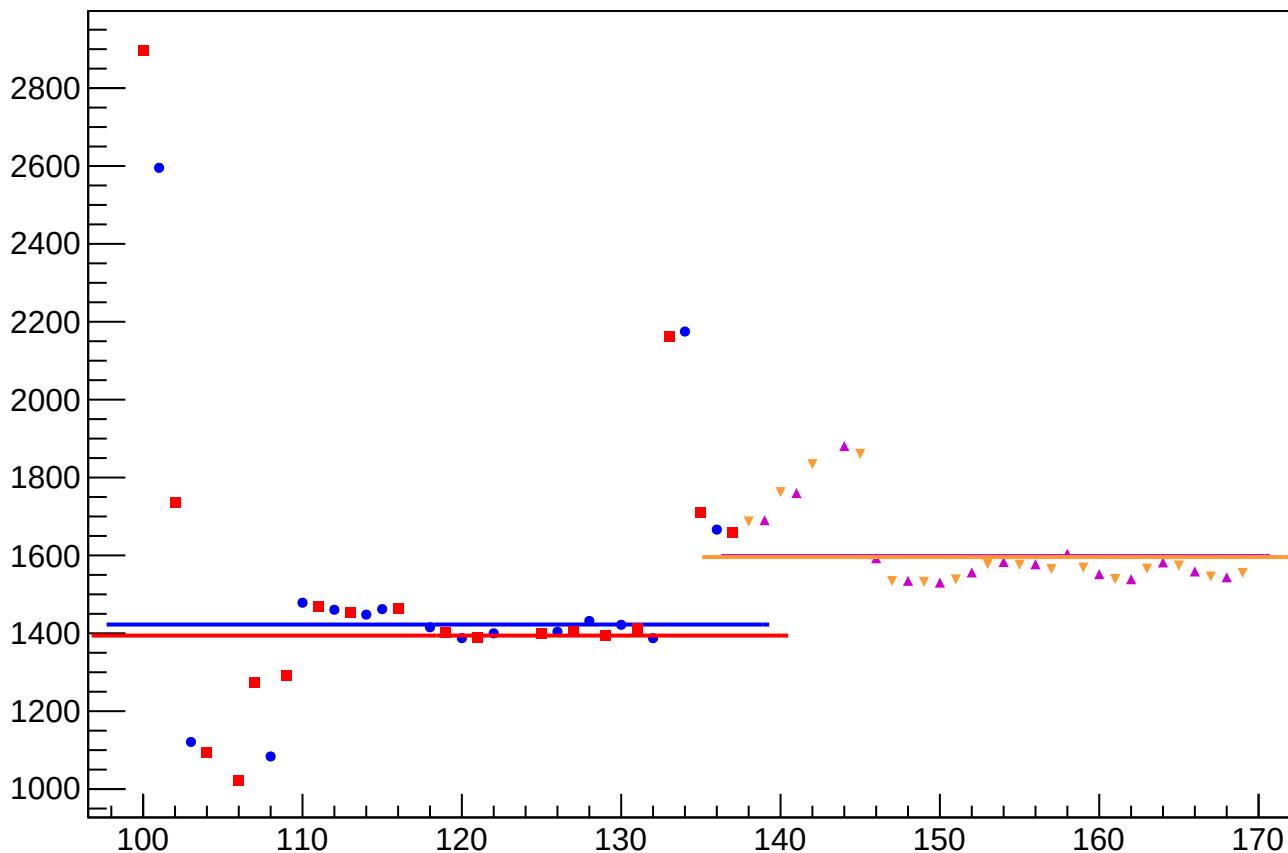
Right: 324.641 $\pm$ 378.346 χ^2 /NDF: 43.4/33

In: 345.249 $\pm$ 347.695 χ^2 /NDF:27.8/30

Out: 2.568 $\pm$ 342.996 χ^2 /NDF:41.3/33

All: 171.577 $\pm$ 244.179 χ^2 /NDF: 69.5/64

reg_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1422.515 $\pm$ 0.382 χ^2 /NDF: 560259.3/15

Left Out: 1595.763 $\pm$ 0.318 χ^2 /NDF: 82813.1/15

Right Out: 1394.171 $\pm$ 0.375 χ^2 /NDF: 393666.0/17

Left In: 1598.334 $\pm$ 0.321 χ^2 /NDF: 75711.8/14

Left: 1597.035 $\pm$ 0.226 χ^2 /NDF: 158557.2/30

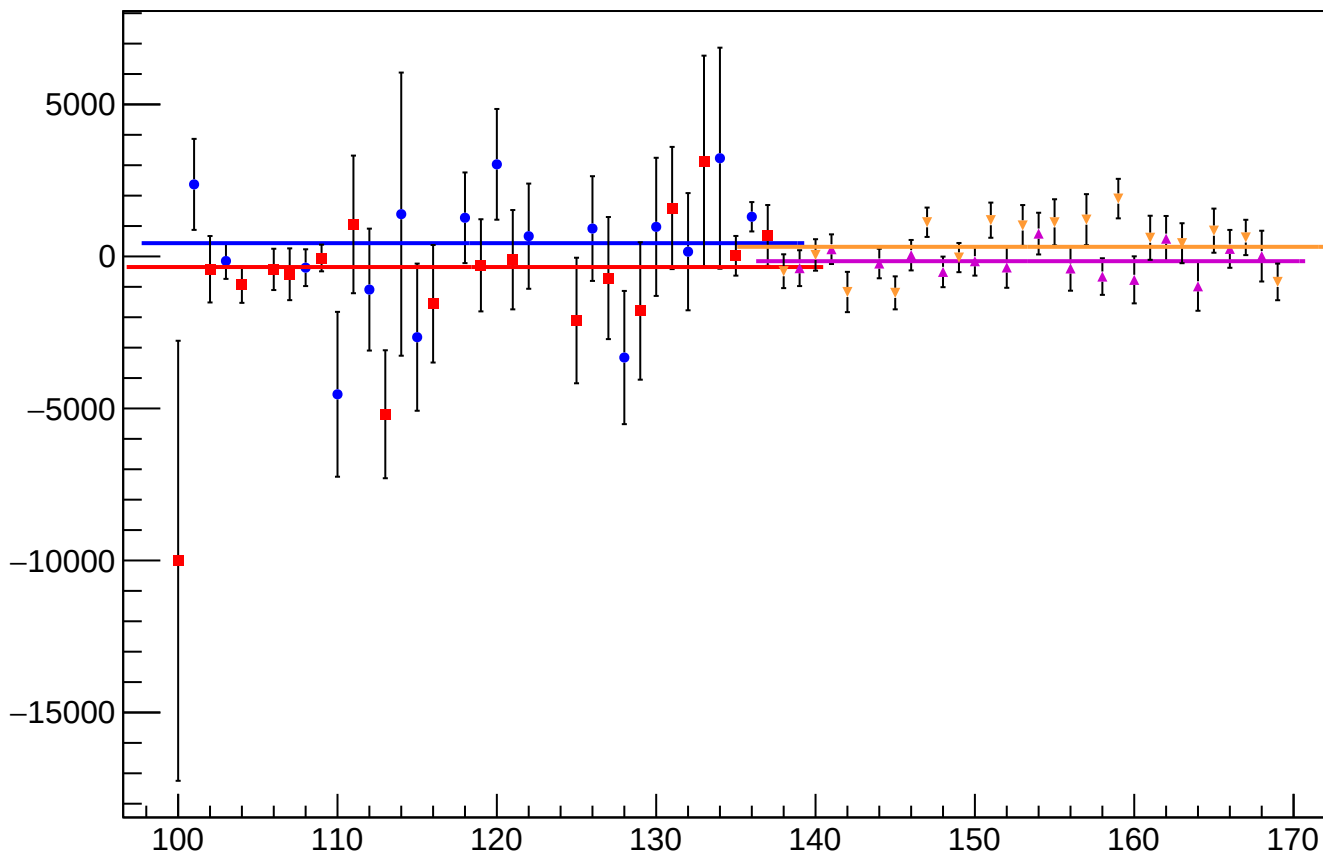
Right: 1408.082 $\pm$ 0.268 χ^2 /NDF: 956730.5/33

In: 1525.457 $\pm$ 0.246 χ^2 /NDF: 760083.6/30

Out: 1511.398 $\pm$ 0.243 χ^2 /NDF: 644609.5/33

All: 1518.332 $\pm$ 0.173 χ^2 /NDF: 1406350.3/64

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 436.509 $\pm$ 275.917 χ^2 /NDF: 19.3/15

Left Out: 316.156 $\pm$ 151.036 χ^2 /NDF:34.8/15

Right Out: -348.567 $\pm$ 233.745 χ^2 /NDF: 13.9/17

Left In: -155.986 $\pm$ 154.843 χ^2 /NDF:7.3/14

Left: 85.961 $\pm$ 108.120 χ^2 /NDF: 46.8/30

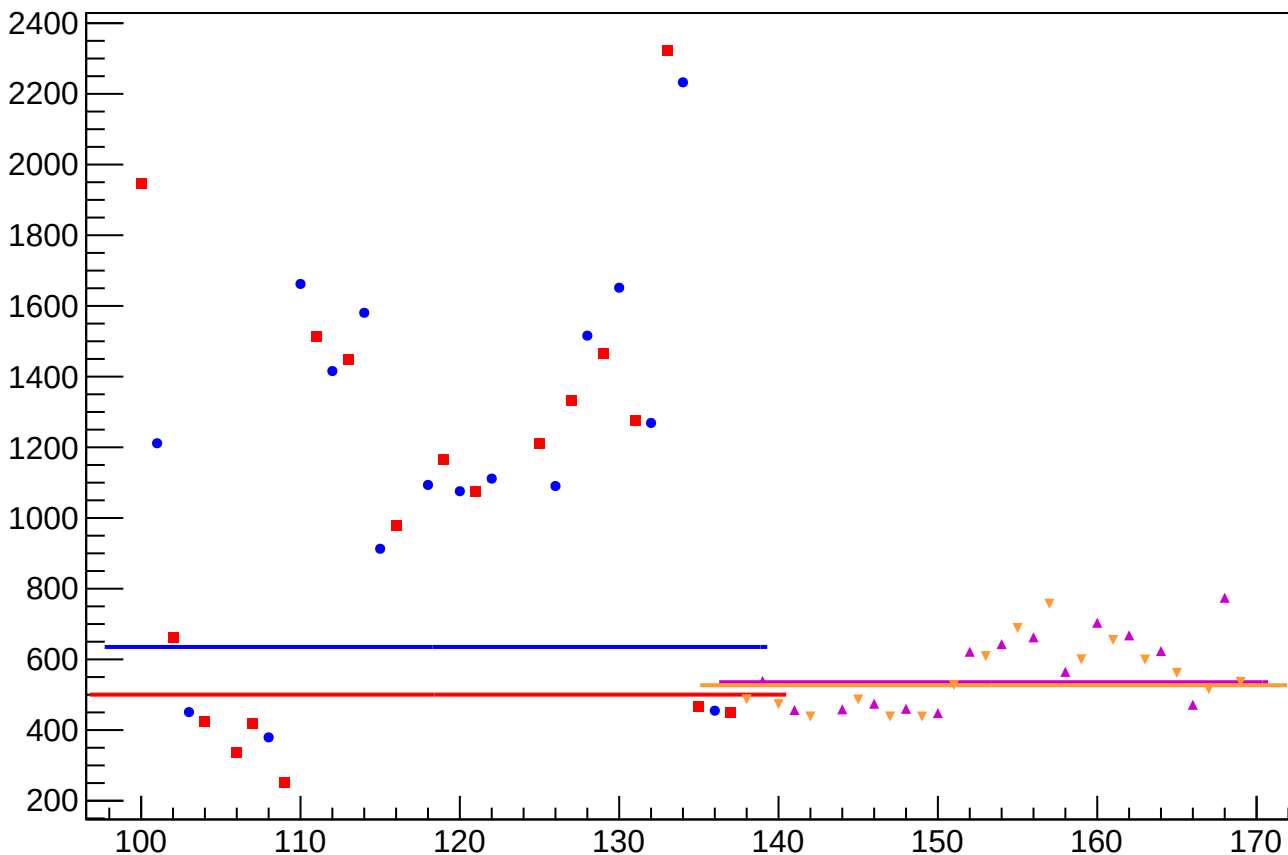
Right: -20.548 $\pm$ 178.349 χ^2 /NDF: 38.0/33

In: -14.078 $\pm$ 135.033 χ^2 /NDF:30.1/30

Out: 120.366 $\pm$ 126.858 χ^2 /NDF:54.4/33

All: 57.337 $\pm$ 92.457 χ^2 /NDF: 85.1/64

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 635.135+/-0.195 χ^2/NDF : 3752583.4/15

Left Out: 526.938+/-0.107 χ^2/NDF : 603871.1/15

Right Out: 500.231+/-0.165 χ^2/NDF : 4309093.1/17

Left In: 535.379+/-0.109 χ^2/NDF : 757772.3/14

Left: 531.053+/-0.076 χ^2/NDF : 1364688.9/30

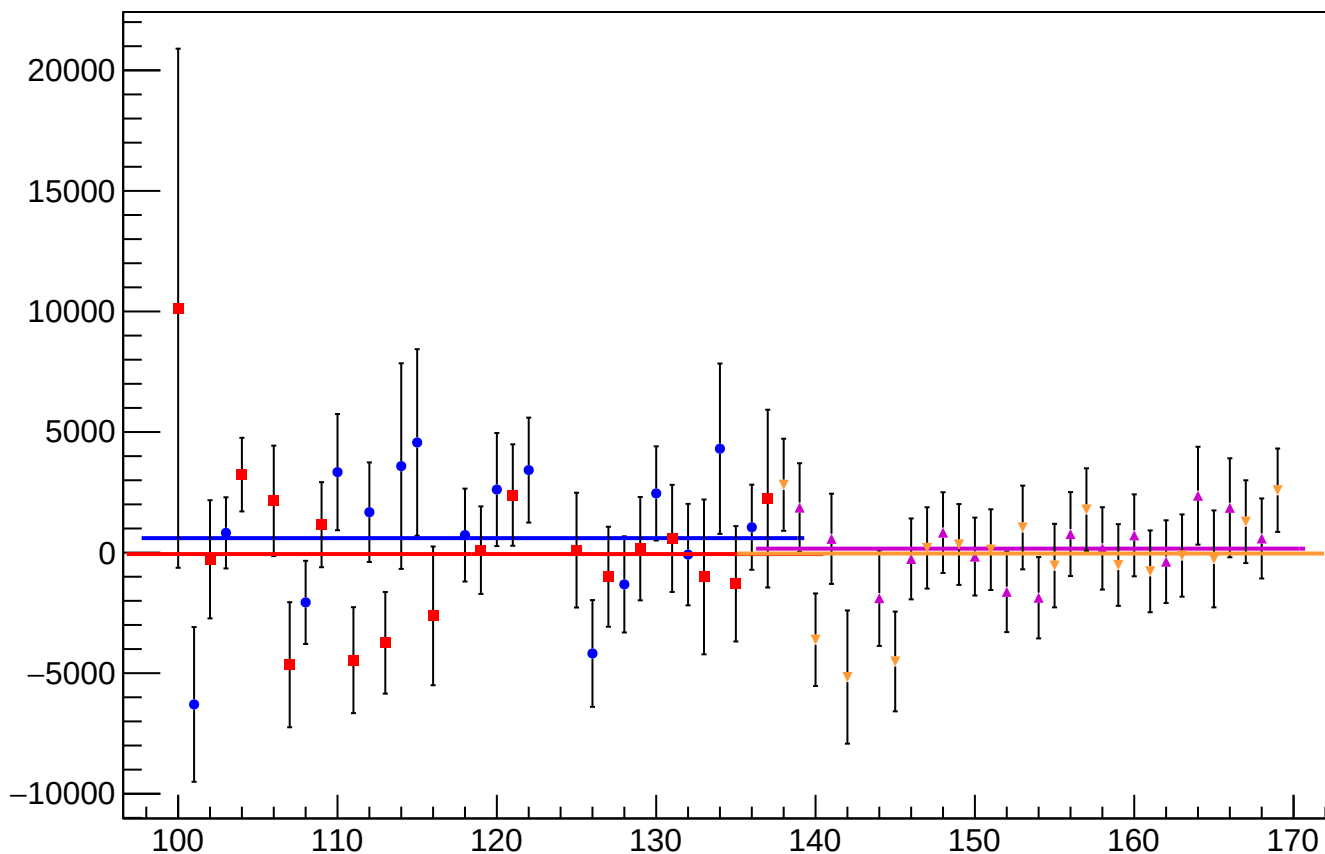
Right: 556.596+/-0.126 χ^2/NDF : 8340019.1/33

In: 559.271+/-0.095 χ^2/NDF : 4709170.4/30

Out: 519.072+/-0.090 χ^2/NDF : 4931382.3/33

All: 537.918+/-0.065 χ^2/NDF : 9734707.3/64

cor_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 600.020 $\pm$ 540.053 χ^2 /NDF: 20.3/15

Left Out: -38.217 $\pm$ 449.793 χ^2 /NDF:18.7/15

Right Out: -60.361 $\pm$ 532.826 χ^2 /NDF: 20.4/17

Left In: 164.788 $\pm$ 454.396 χ^2 /NDF:7.1/14

Left: 62.252 $\pm$ 319.667 χ^2 /NDF: 25.9/30

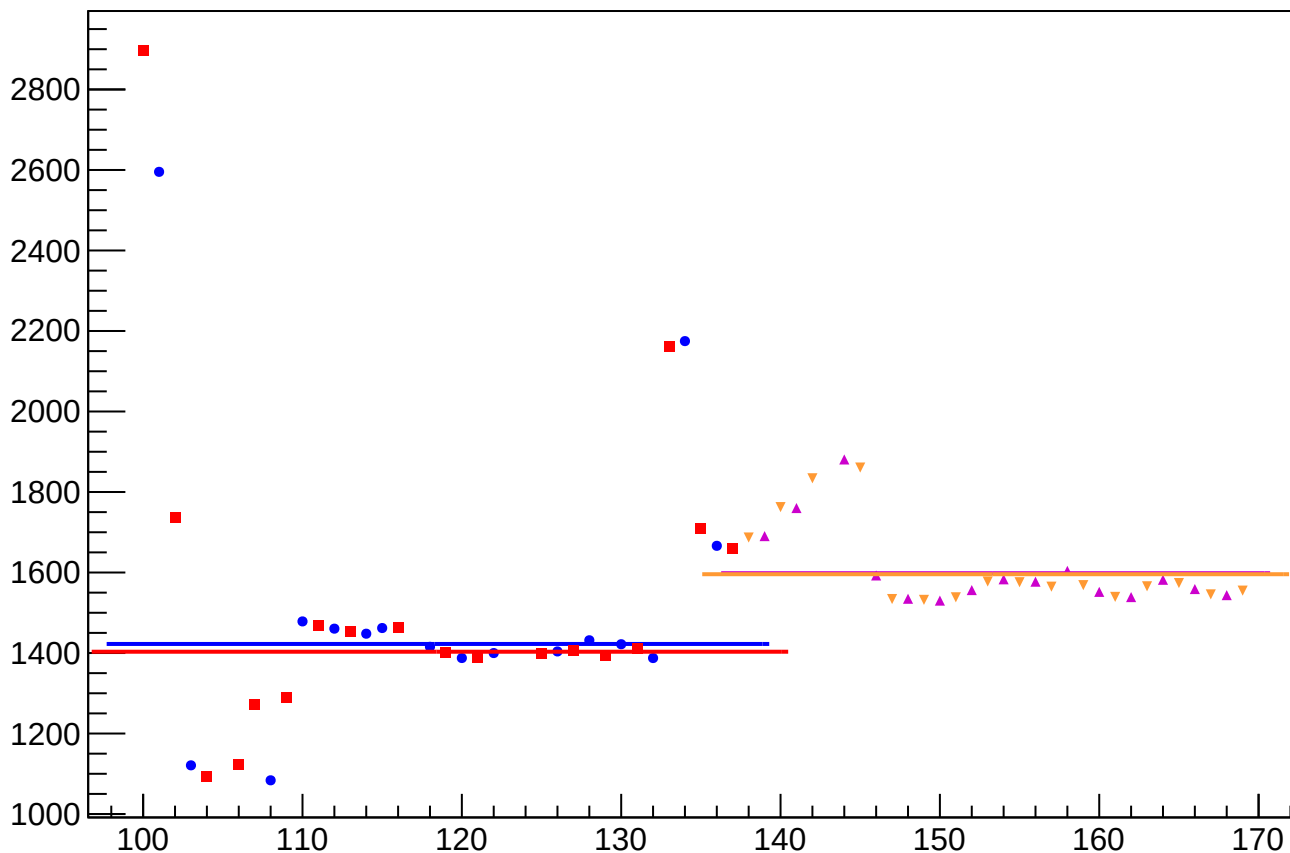
Right: 265.381 $\pm$ 379.294 χ^2 /NDF: 41.4/33

In: 345.191 $\pm$ 347.695 χ^2 /NDF:27.8/30

Out: -47.431 $\pm$ 343.703 χ^2 /NDF:39.1/33

All: 146.613 $\pm$ 244.434 χ^2 /NDF: 67.5/64

cor_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1422.515+/-0.382 χ^2/NDF : 560259.5/15

Left Out: 1595.764+/-0.318 χ^2/NDF : 82813.1/15

Right Out: 1403.220+/-0.377 χ^2/NDF : 359113.5/17

Left In: 1598.334+/-0.321 χ^2/NDF : 75711.7/14

Left: 1597.035+/-0.226 χ^2/NDF : 158557.1/30

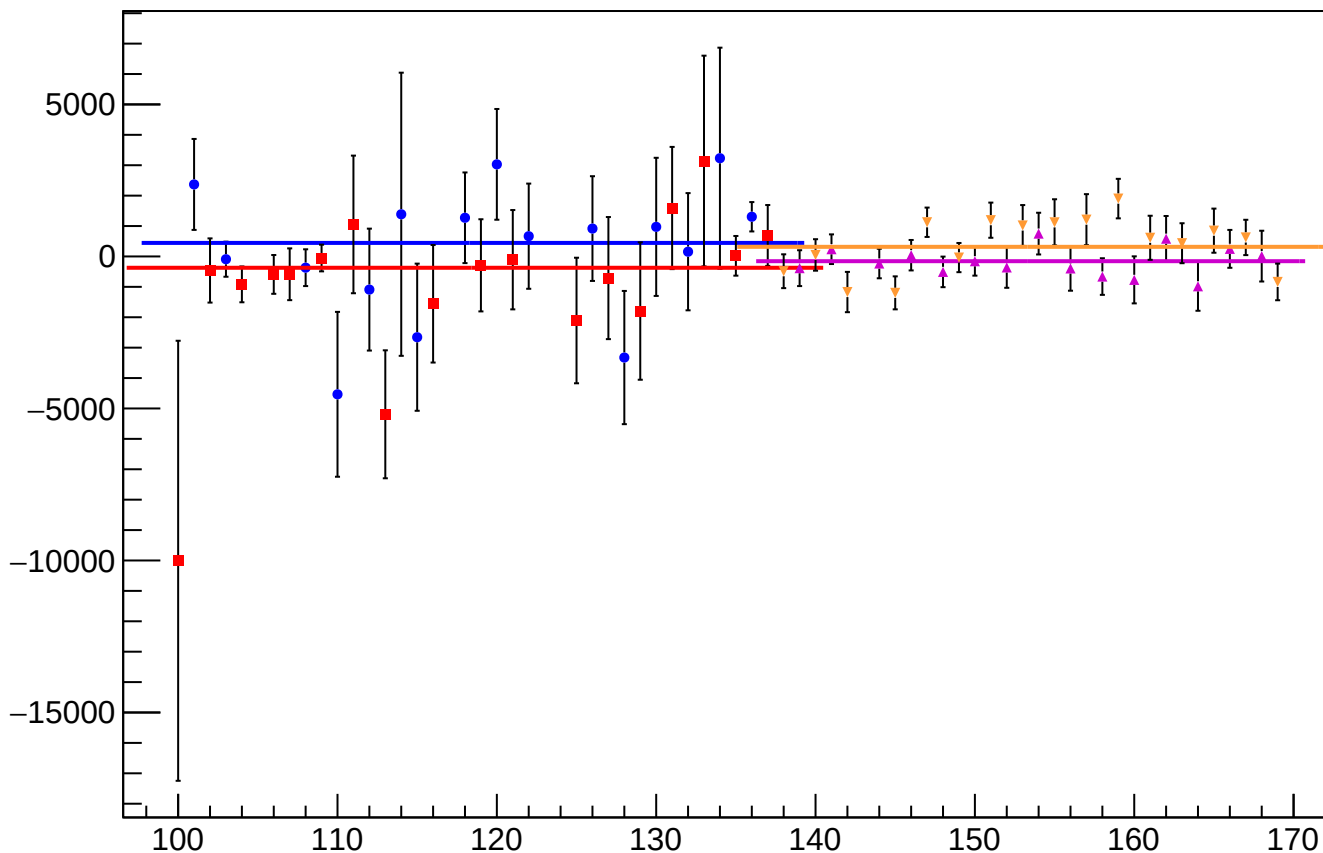
Right: 1412.737+/-0.268 χ^2/NDF : 920666.7/33

In: 1525.457+/-0.246 χ^2/NDF : 760084.0/30

Out: 1515.646+/-0.243 χ^2/NDF : 594423.2/33

All: 1520.495+/-0.173 χ^2/NDF : 1355312.5/64

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 445.121 $\pm$ 274.737 χ^2 /NDF: 19.2/15

Left Out: 316.204 $\pm$ 151.039 χ^2 /NDF:34.8/15

Right Out: -372.538 $\pm$ 231.353 χ^2 /NDF: 14.0/17

Left In: -156.021 $\pm$ 154.842 χ^2 /NDF:7.3/14

Left: 85.962 $\pm$ 108.120 χ^2 /NDF: 46.8/30

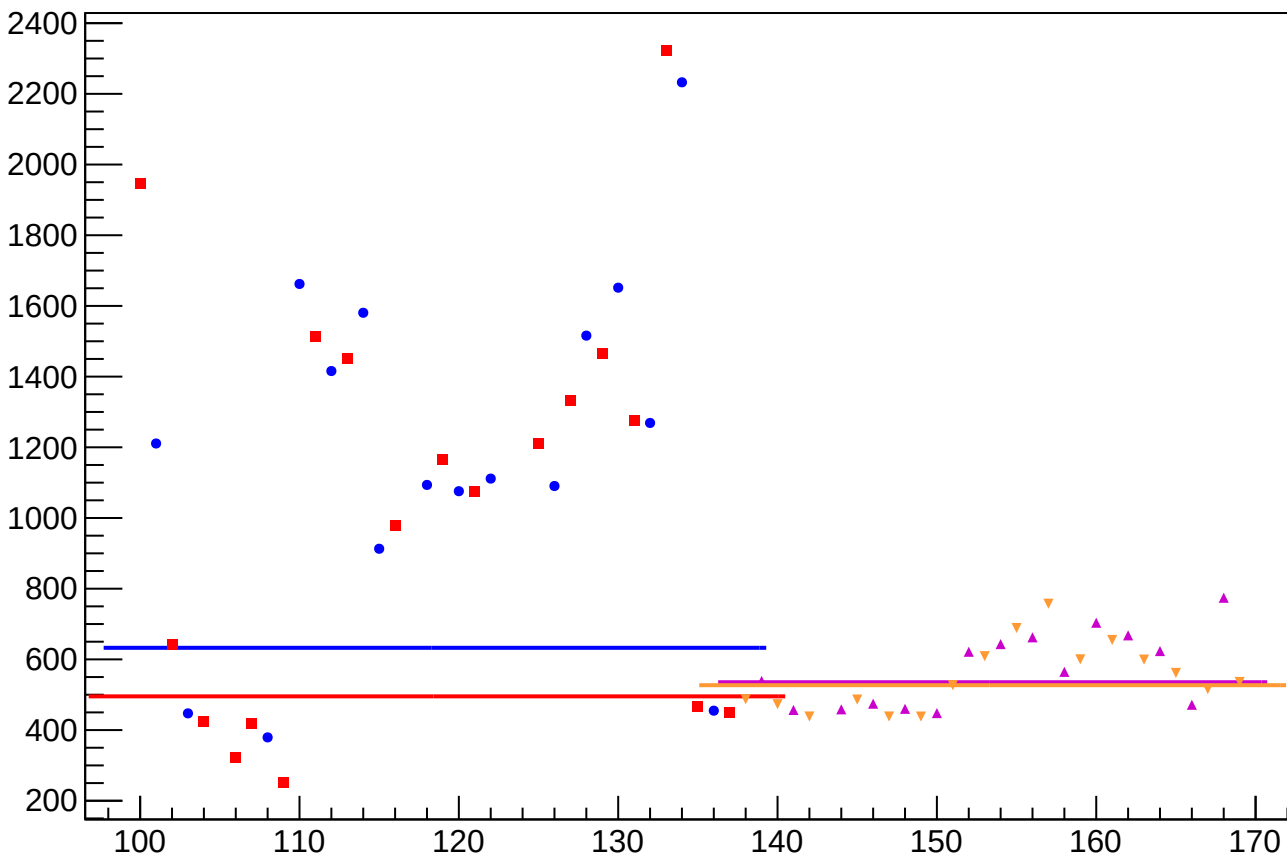
Right: -33.290 $\pm$ 176.966 χ^2 /NDF: 38.4/33

In: -11.103 $\pm$ 134.893 χ^2 /NDF:30.1/30

Out: 110.378 $\pm$ 126.473 χ^2 /NDF:55.0/33

All: 53.547 $\pm$ 92.263 χ^2 /NDF: 85.5/64

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 632.753+/-0.194 χ^2/NDF : 3767731.7/15

Left Out: 526.948+/-0.107 χ^2/NDF : 603758.3/15

Right Out: 495.380+/-0.164 χ^2/NDF : 4337484.8/17

Left In: 535.374+/-0.109 χ^2/NDF : 757816.1/14

Left: 531.056+/-0.076 χ^2/NDF : 1364608.8/30

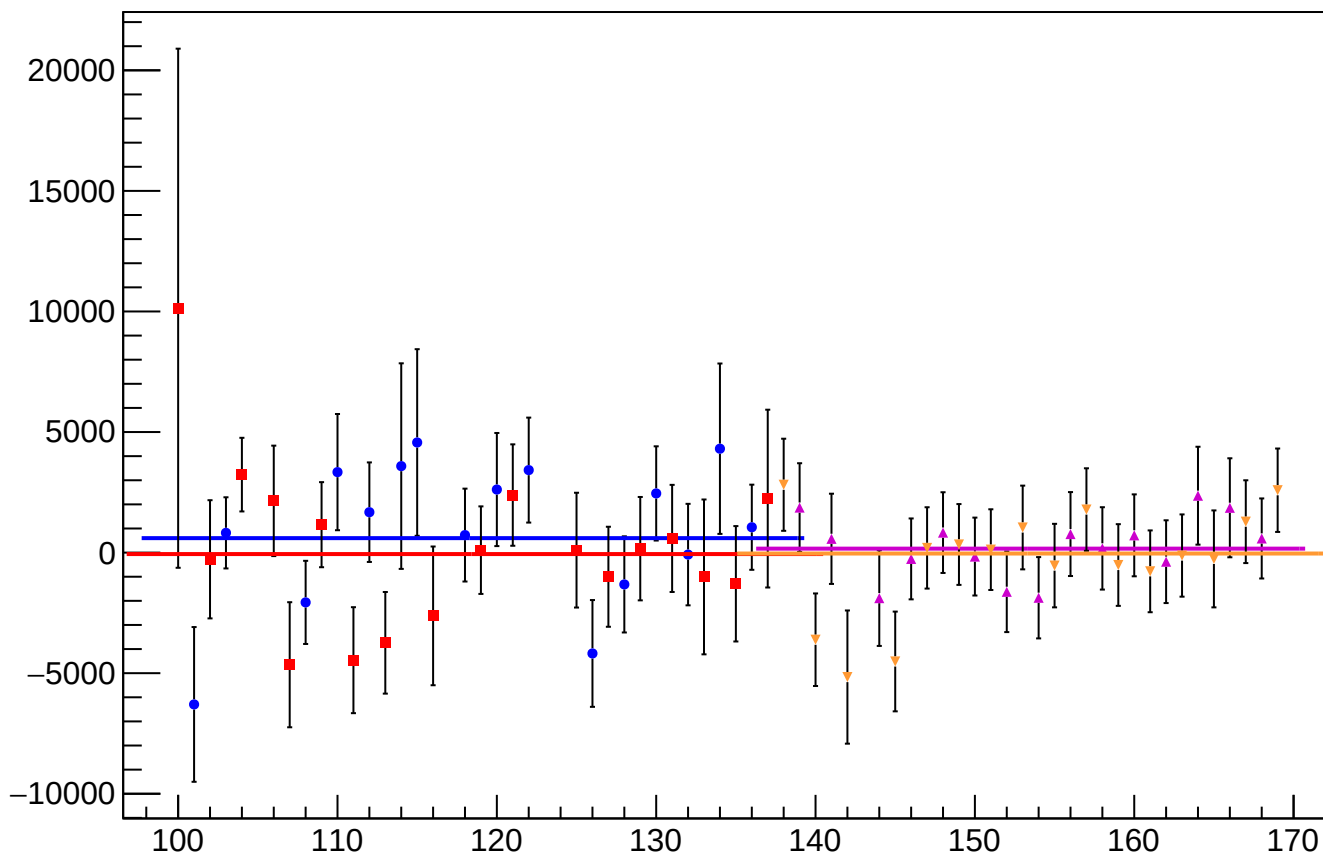
Right: 552.376+/-0.125 χ^2/NDF : 8397783.6/33

In: 558.849+/-0.095 χ^2/NDF : 4716237.9/30

Out: 517.514+/-0.089 χ^2/NDF : 4967352.6/33

All: 536.851+/-0.065 χ^2/NDF : 9783530.3/64

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 600.020 $\pm$ 540.053 χ^2 /NDF: 20.3/15

Left Out: -38.217 $\pm$ 449.793 χ^2 /NDF:18.7/15

Right Out: -60.361 $\pm$ 532.826 χ^2 /NDF: 20.4/17

Left In: 164.788 $\pm$ 454.396 χ^2 /NDF:7.1/14

Left: 62.252 $\pm$ 319.667 χ^2 /NDF: 25.9/30

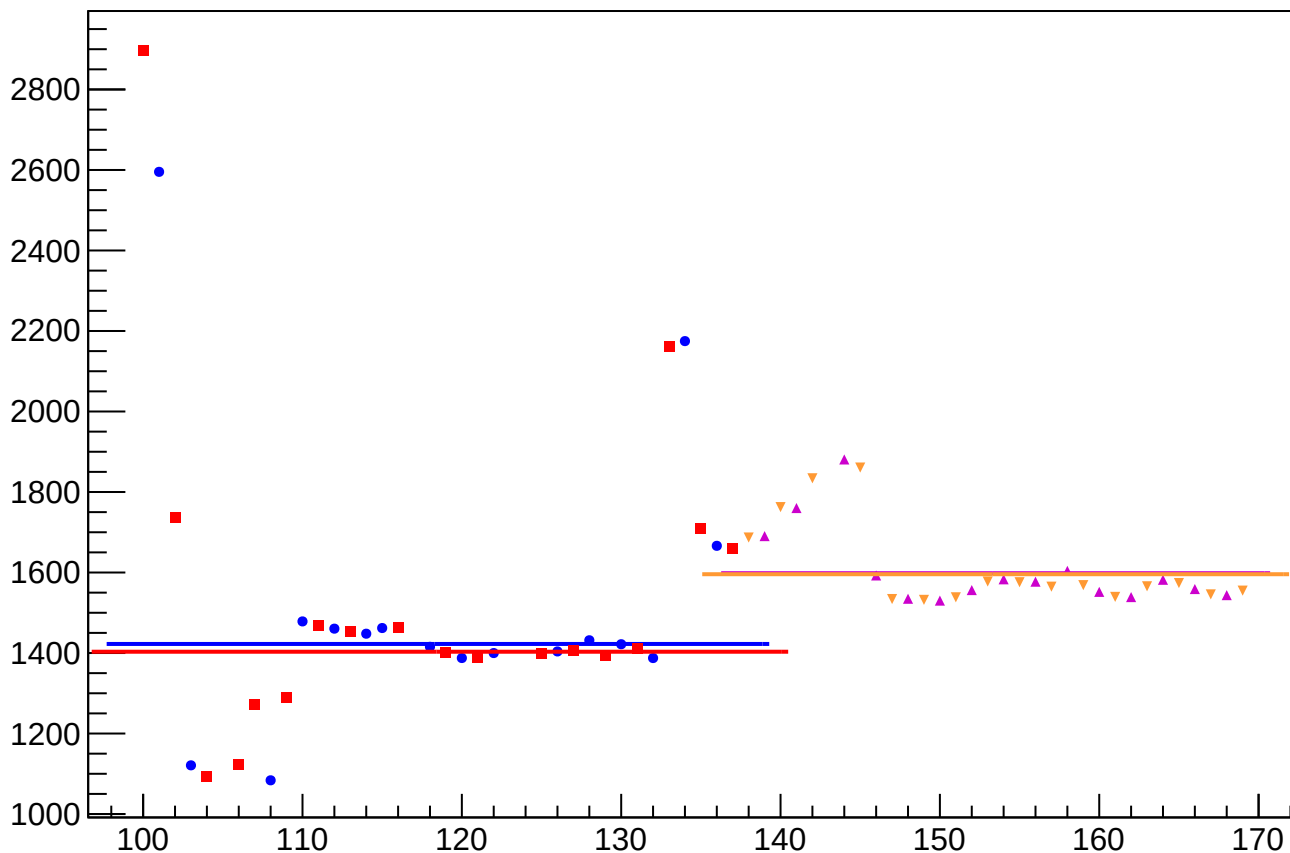
Right: 265.381 $\pm$ 379.294 χ^2 /NDF: 41.4/33

In: 345.191 $\pm$ 347.695 χ^2 /NDF:27.8/30

Out: -47.431 $\pm$ 343.703 χ^2 /NDF:39.1/33

All: 146.613 $\pm$ 244.434 χ^2 /NDF: 67.5/64

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1422.515 ± 0.382 χ^2/NDF : 560259.5/15

Left Out: 1595.764 ± 0.318 χ^2/NDF : 82813.1/15

Right Out: 1403.220 ± 0.377 χ^2/NDF : 359113.5/17

Left In: 1598.334 ± 0.321 χ^2/NDF : 75711.7/14

Left: 1597.035 ± 0.226 χ^2/NDF : 158557.1/30

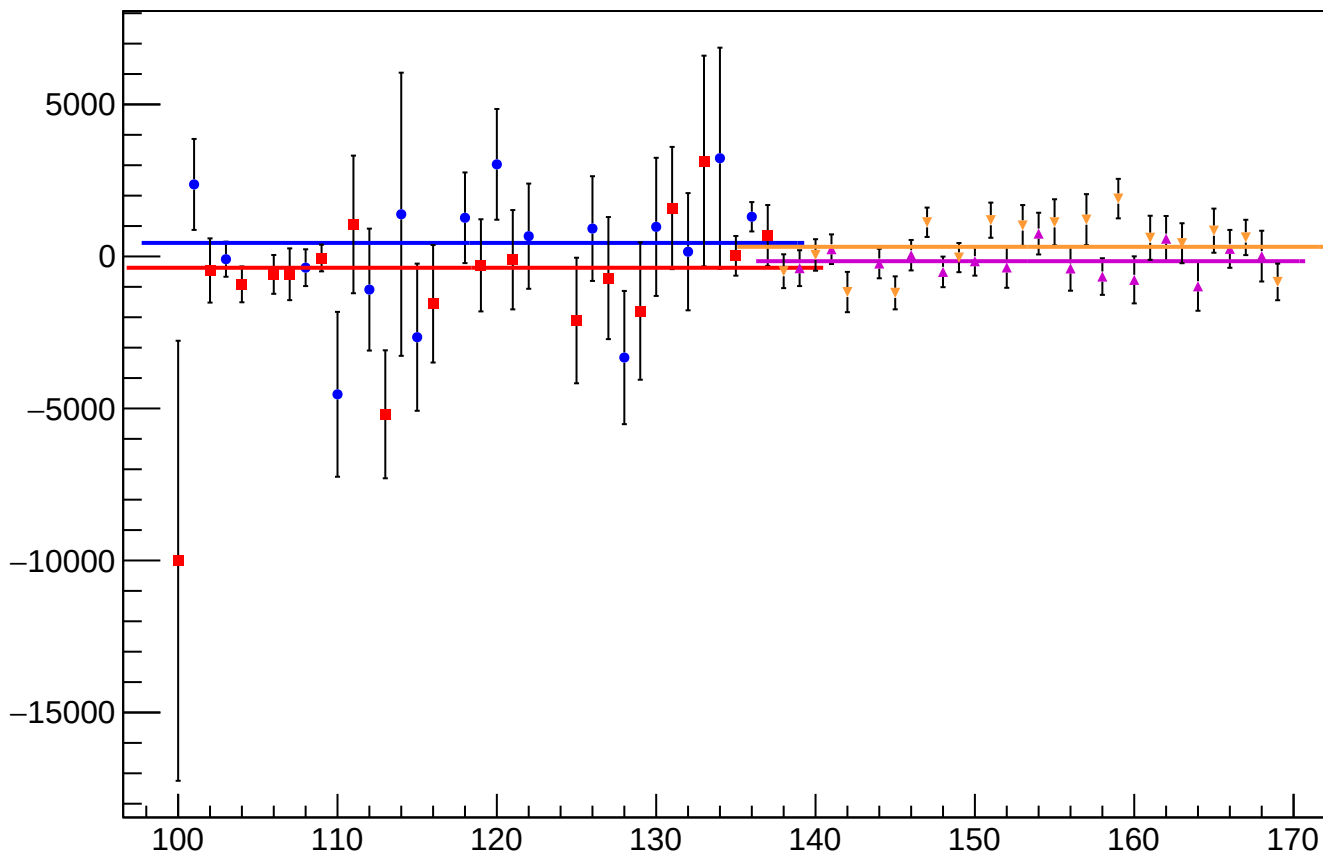
Right: 1412.737 ± 0.268 χ^2/NDF : 920666.7/33

In: 1525.457 ± 0.246 χ^2/NDF : 760084.0/30

Out: 1515.646 ± 0.243 χ^2/NDF : 594423.2/33

All: 1520.495 ± 0.173 χ^2/NDF : 1355312.5/64

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 445.121 $\pm$ 274.737 χ^2 /NDF: 19.2/15

Left Out: 316.204 $\pm$ 151.039 χ^2 /NDF:34.8/15

Right Out: -372.538 $\pm$ 231.353 χ^2 /NDF: 14.0/17

Left In: -156.021 $\pm$ 154.842 χ^2 /NDF:7.3/14

Left: 85.962 $\pm$ 108.120 χ^2 /NDF: 46.8/30

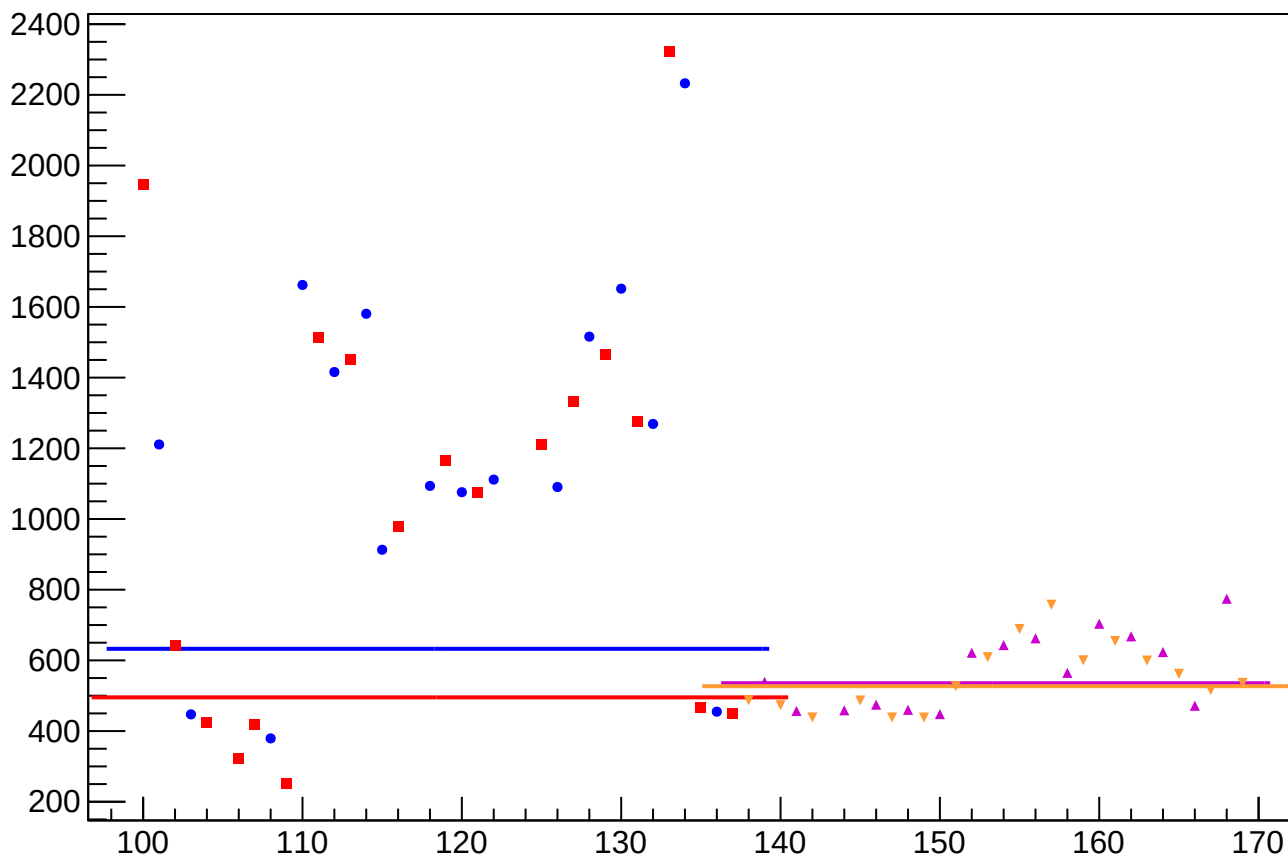
Right: -33.290 $\pm$ 176.966 χ^2 /NDF: 38.4/33

In: -11.103 $\pm$ 134.893 χ^2 /NDF:30.1/30

Out: 110.378 $\pm$ 126.473 χ^2 /NDF:55.0/33

All: 53.547 $\pm$ 92.263 χ^2 /NDF: 85.5/64

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 632.753+/-0.194 χ^2/NDF : 3767731.7/15

Left Out: 526.948+/-0.107 χ^2/NDF : 603758.3/15

Right Out: 495.380+/-0.164 χ^2/NDF : 4337484.8/17

Left In: 535.374+/-0.109 χ^2/NDF : 757816.1/14

Left: 531.056+/-0.076 χ^2/NDF : 1364608.8/30

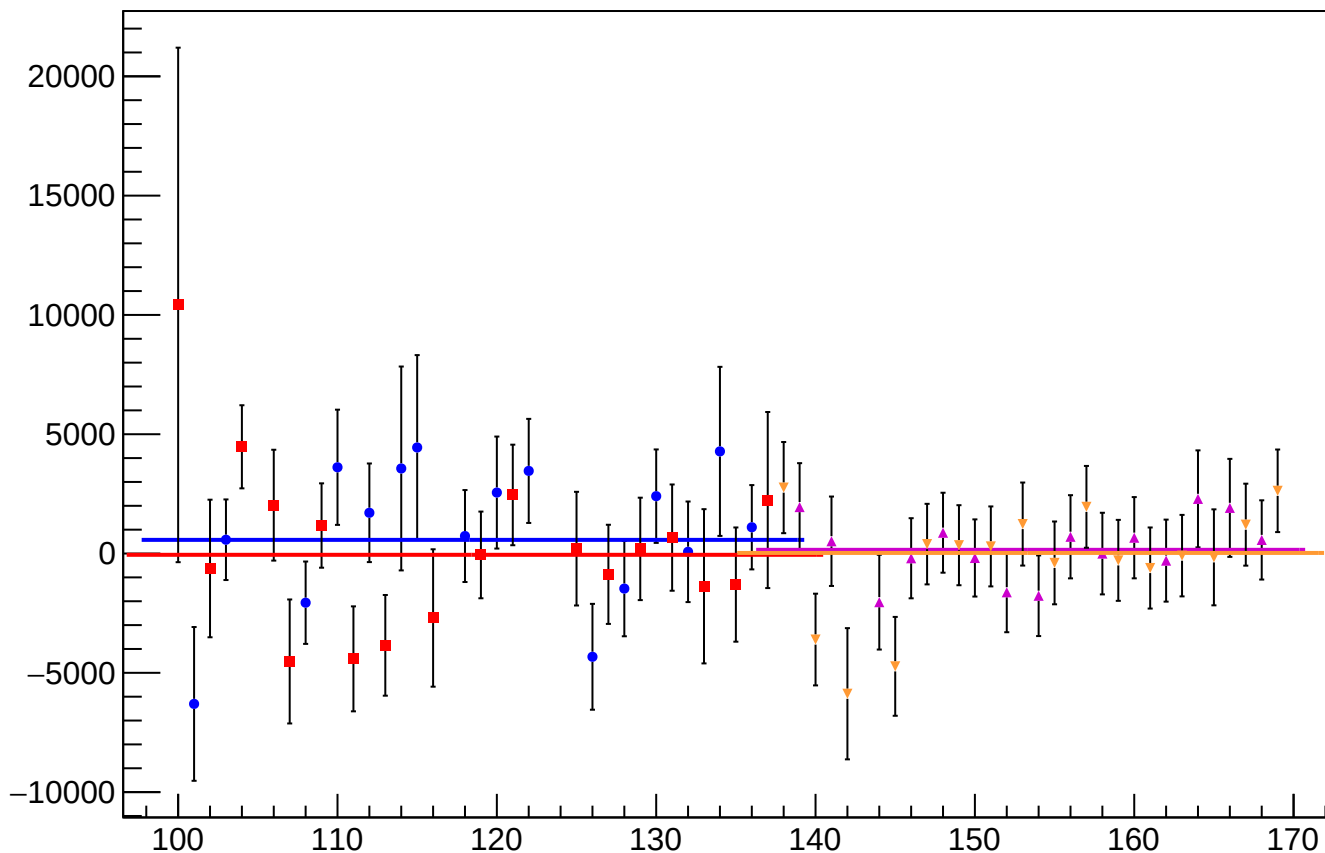
Right: 552.376+/-0.125 χ^2/NDF : 8397783.6/33

In: 558.849+/-0.095 χ^2/NDF : 4716237.9/30

Out: 517.514+/-0.089 χ^2/NDF : 4967352.6/33

All: 536.851+/-0.065 χ^2/NDF : 9783530.3/64

dit_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 572.289+/-549.638 χ^2/NDF : 20.8/15

Left Out: 24.818+/-450.293 χ^2/NDF :20.3/15

Right Out: -53.754+/-545.353 χ^2/NDF : 22.5/17

Left In: 155.012+/-455.022 χ^2/NDF :7.1/14

Left: 89.235+/-320.064 χ^2/NDF : 27.4/30

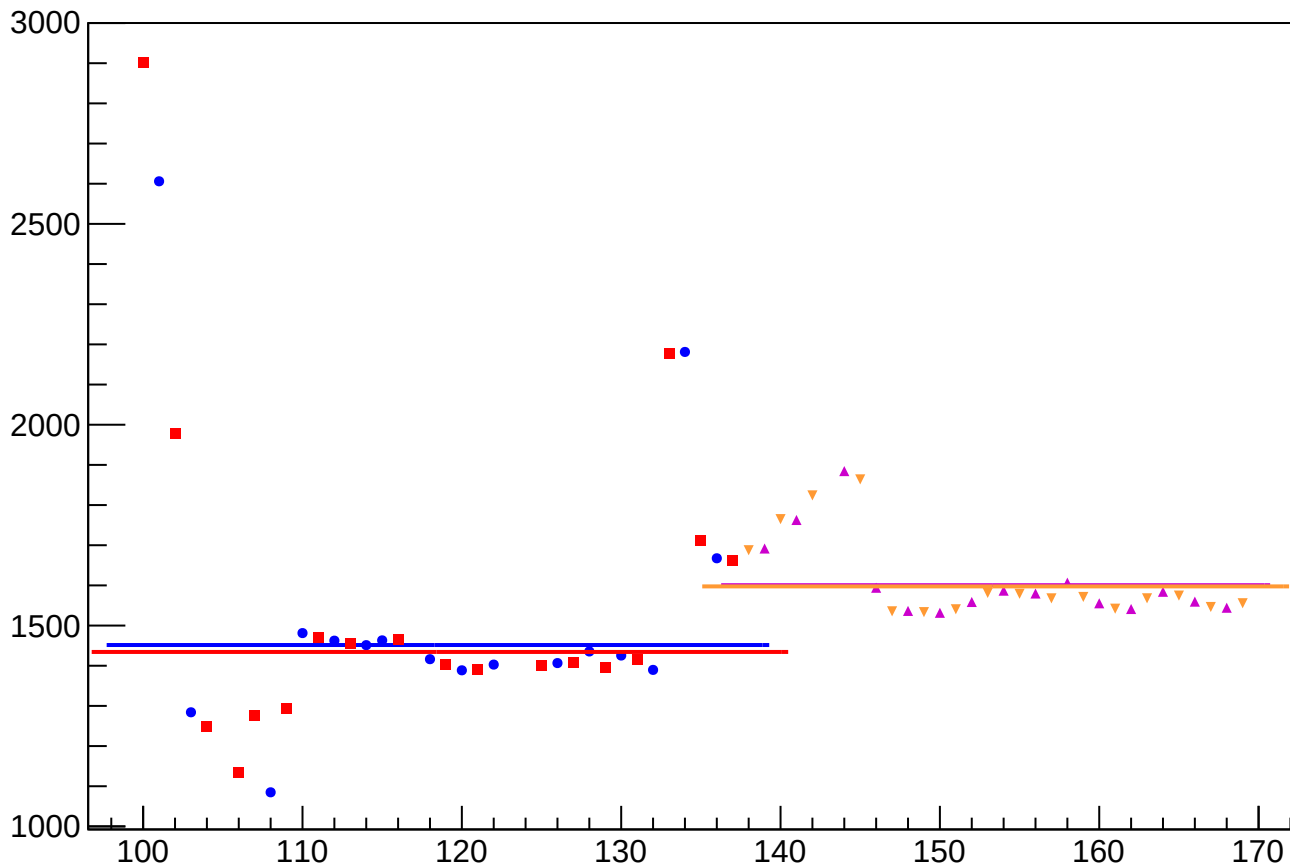
Right: 256.817+/-387.129 χ^2/NDF : 43.9/33

In: 324.698+/-350.499 χ^2/NDF :28.2/30

Out: -7.035+/-347.226 χ^2/NDF :42.9/33

All: 157.276+/-246.675 χ^2/NDF : 71.5/64

dit_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1451.579+/-0.389 χ^2/NDF : 487836.7/15

Left Out: 1597.508+/-0.318 χ^2/NDF : 81641.0/15

Right Out: 1434.321+/-0.386 χ^2/NDF : 328590.5/17

Left In: 1600.514+/-0.322 χ^2/NDF : 76068.4/14

Left: 1598.995+/-0.226 χ^2/NDF : 157753.5/30

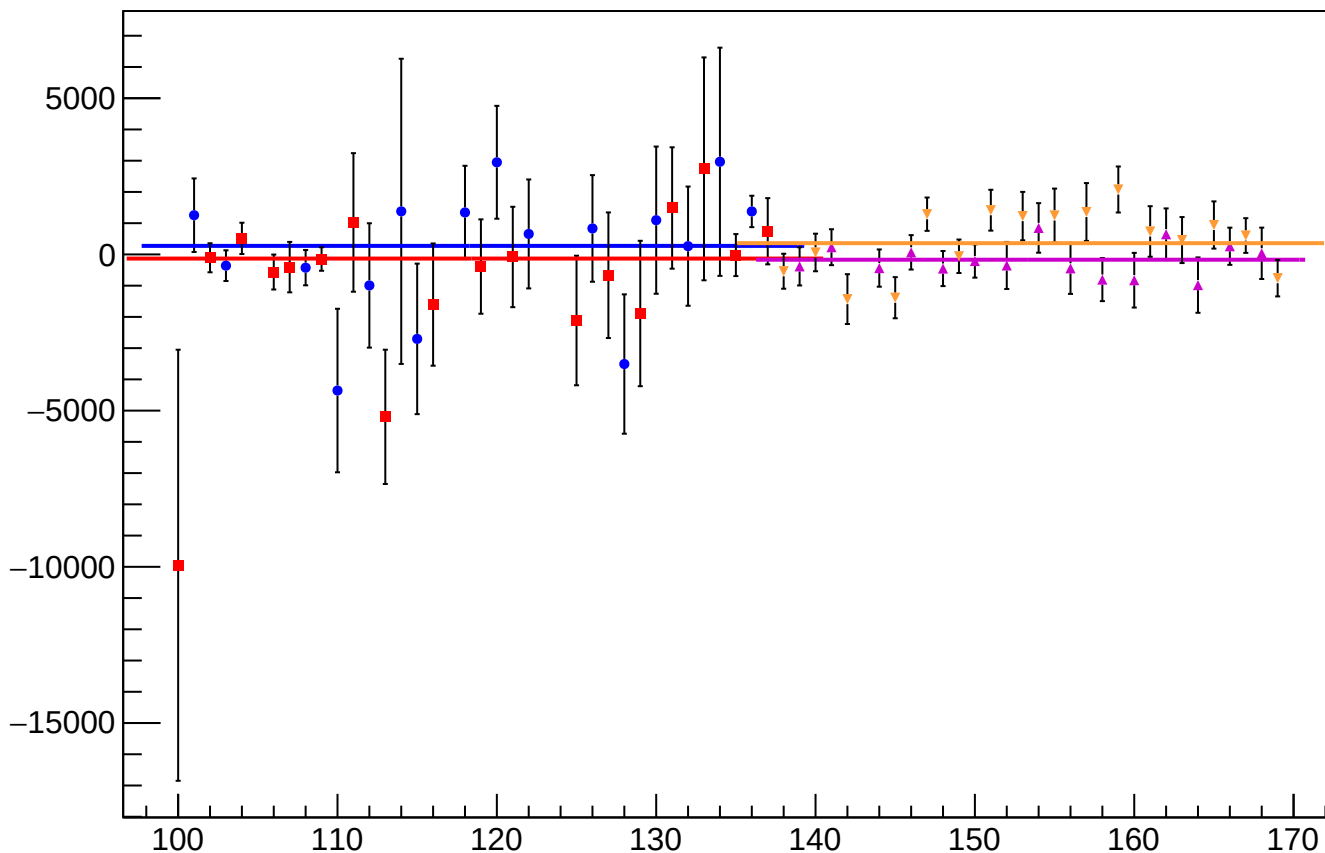
Right: 1442.883+/-0.274 χ^2/NDF : 817420.7/33

In: 1539.949+/-0.248 χ^2/NDF : 651037.6/30

Out: 1531.354+/-0.246 χ^2/NDF : 516714.4/33

All: 1535.611+/-0.174 χ^2/NDF : 1168359.1/64

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 273.439 $\pm$ 260.537 χ^2 /NDF: 20.2/15

Left Out: 360.219 $\pm$ 165.517 χ^2 /NDF:34.7/15

Right Out: -132.573 $\pm$ 195.933 χ^2 /NDF: 14.4/17

Left In: -169.872 $\pm$ 171.995 χ^2 /NDF:6.9/14

Left: 105.344 $\pm$ 119.263 χ^2 /NDF: 46.6/30

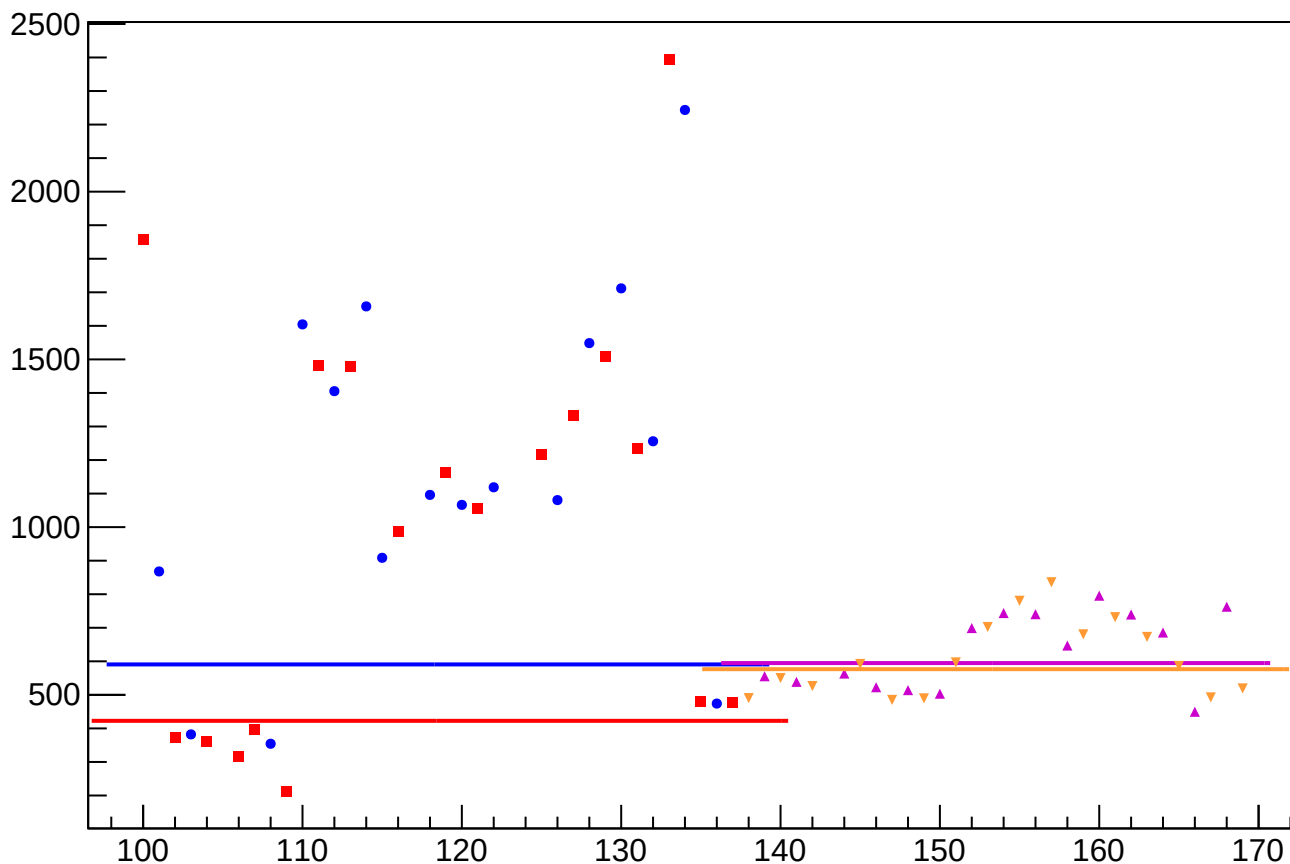
Right: 14.100 $\pm$ 156.593 χ^2 /NDF: 36.2/33

In: -35.315 $\pm$ 143.538 χ^2 /NDF:29.1/30

Out: 155.000 $\pm$ 126.440 χ^2 /NDF:52.9/33

All: 71.847 $\pm$ 94.879 χ^2 /NDF: 83.0/64

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 590.749+/-0.184 χ^2/NDF : 3885502.1/15

Left Out: 576.564+/-0.117 χ^2/NDF : 708748.2/15

Right Out: 422.629+/-0.139 χ^2/NDF : 4858014.6/17

Left In: 594.796+/-0.122 χ^2/NDF : 740996.9/14

Left: 585.330+/-0.084 χ^2/NDF : 1461411.9/30

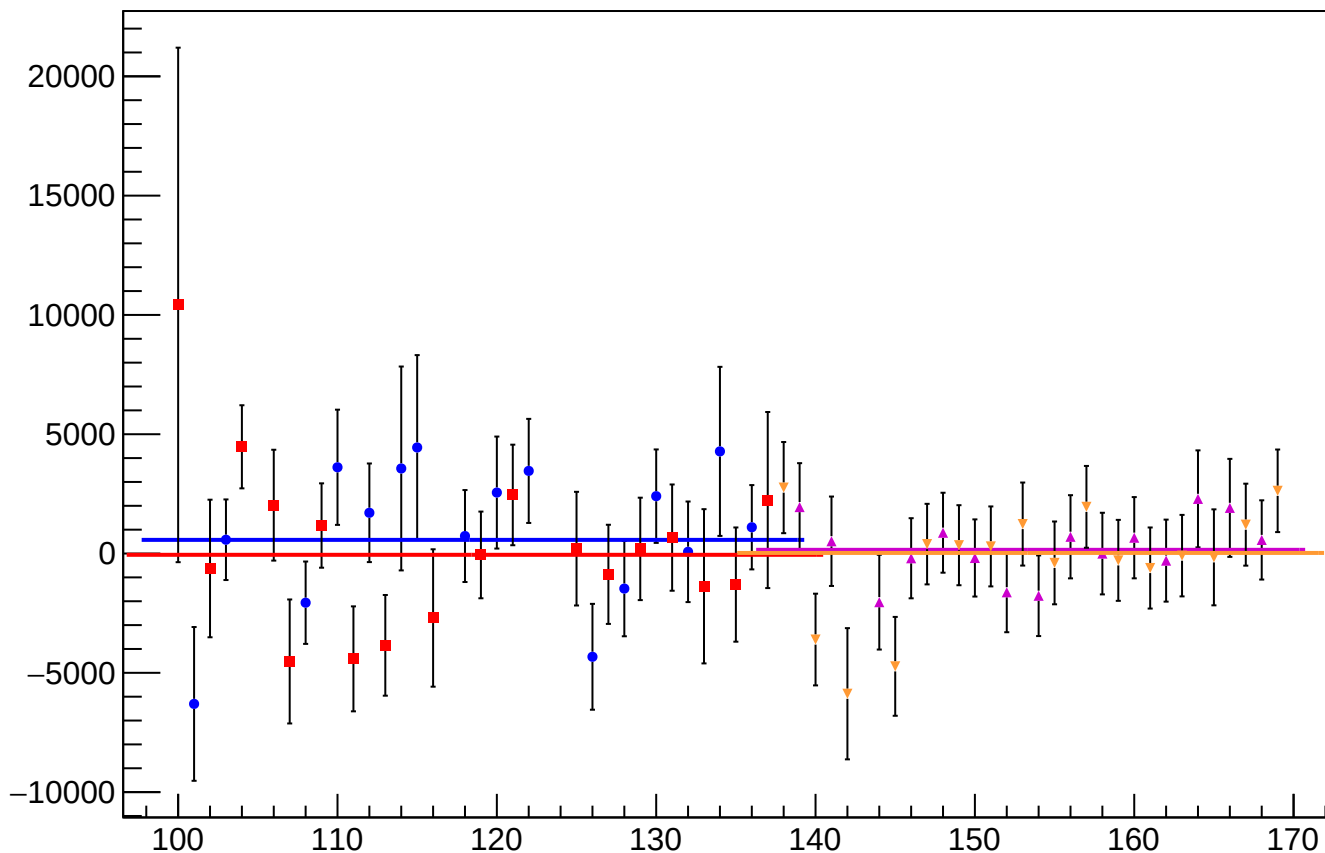
Right: 483.362+/-0.111 χ^2/NDF : 9275456.5/33

In: 593.567+/-0.101 χ^2/NDF : 4626835.1/30

Out: 512.459+/-0.089 χ^2/NDF : 6287168.0/33

All: 547.897+/-0.067 χ^2/NDF : 11273579.4/64

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 572.290 $\pm$ 549.638 χ^2 /NDF: 20.8/15

Left Out: 24.812 $\pm$ 450.293 χ^2 /NDF:20.3/15

Right Out: -53.752 $\pm$ 545.353 χ^2 /NDF: 22.5/17

Left In: 155.014 $\pm$ 455.022 χ^2 /NDF:7.1/14

Left: 89.233 $\pm$ 320.064 χ^2 /NDF: 27.4/30

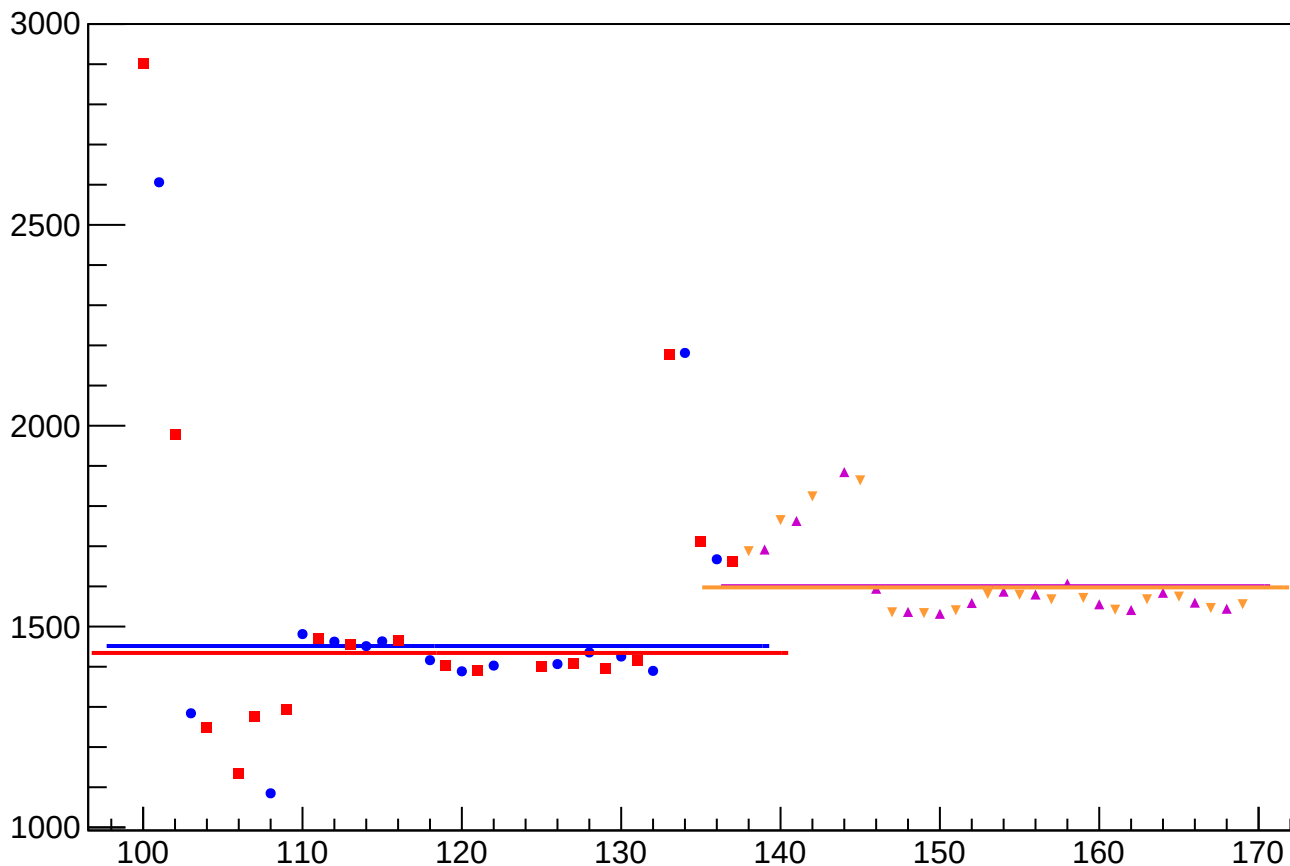
Right: 256.819 $\pm$ 387.129 χ^2 /NDF: 43.9/33

In: 324.699 $\pm$ 350.499 χ^2 /NDF:28.2/30

Out: -7.037 $\pm$ 347.226 χ^2 /NDF:42.9/33

All: 157.275 $\pm$ 246.675 χ^2 /NDF: 71.5/64

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1451.579+/-0.389 χ^2/NDF : 487836.2/15

Left Out: 1597.508+/-0.318 χ^2/NDF : 81641.2/15

Right Out: 1434.321+/-0.386 χ^2/NDF : 328590.5/17

Left In: 1600.514+/-0.322 χ^2/NDF : 76068.6/14

Left: 1598.995+/-0.226 χ^2/NDF : 157753.8/30

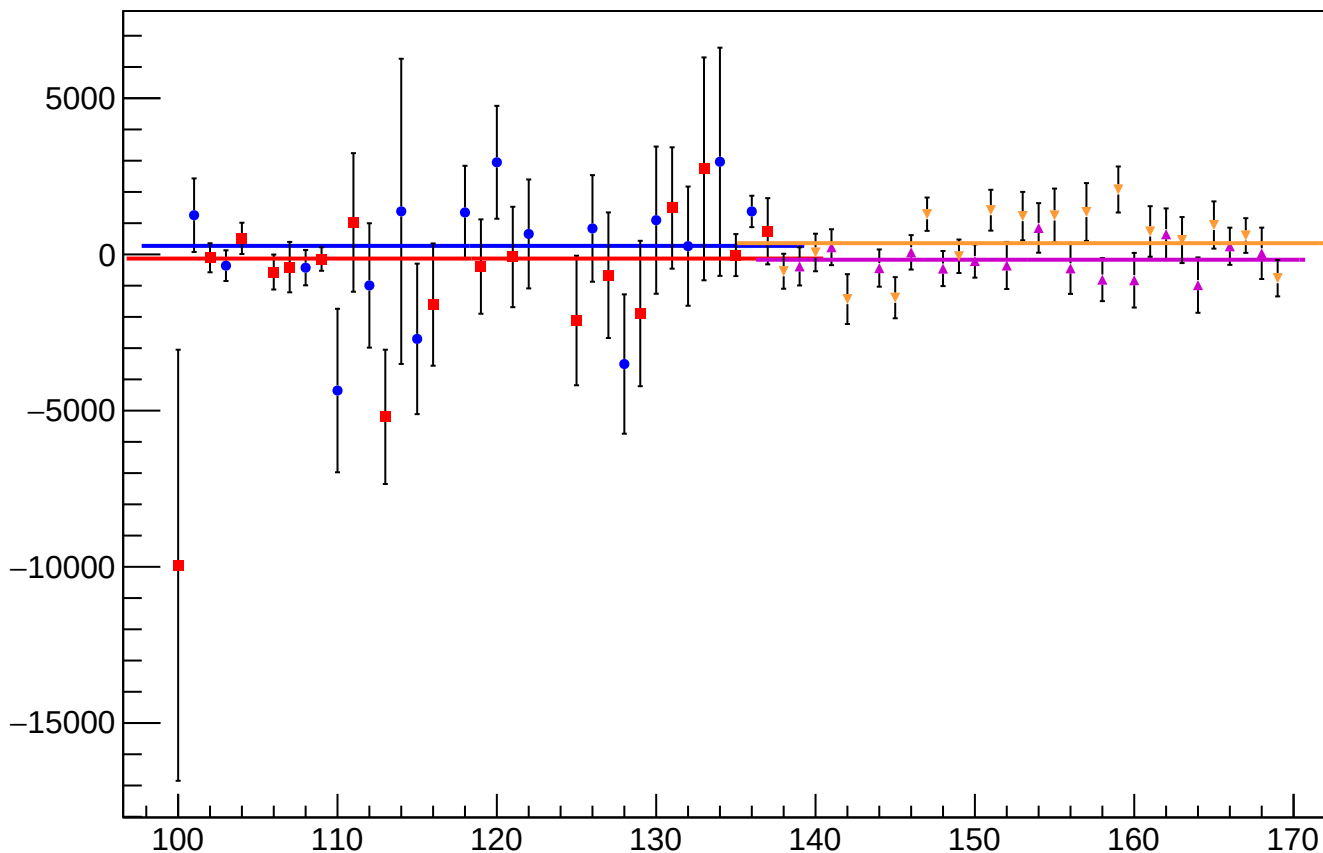
Right: 1442.883+/-0.274 χ^2/NDF : 817420.3/33

In: 1539.949+/-0.248 χ^2/NDF : 651037.3/30

Out: 1531.354+/-0.246 χ^2/NDF : 516714.8/33

All: 1535.611+/-0.174 χ^2/NDF : 1168359.2/64

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 273.429 $\pm$ 260.536 χ^2 /NDF: 20.2/15

Left Out: 360.227 $\pm$ 165.518 χ^2 /NDF:34.7/15

Right Out: -132.567 $\pm$ 195.935 χ^2 /NDF: 14.4/17

Left In: -169.873 $\pm$ 171.995 χ^2 /NDF:6.9/14

Left: 105.347 $\pm$ 119.263 χ^2 /NDF: 46.6/30

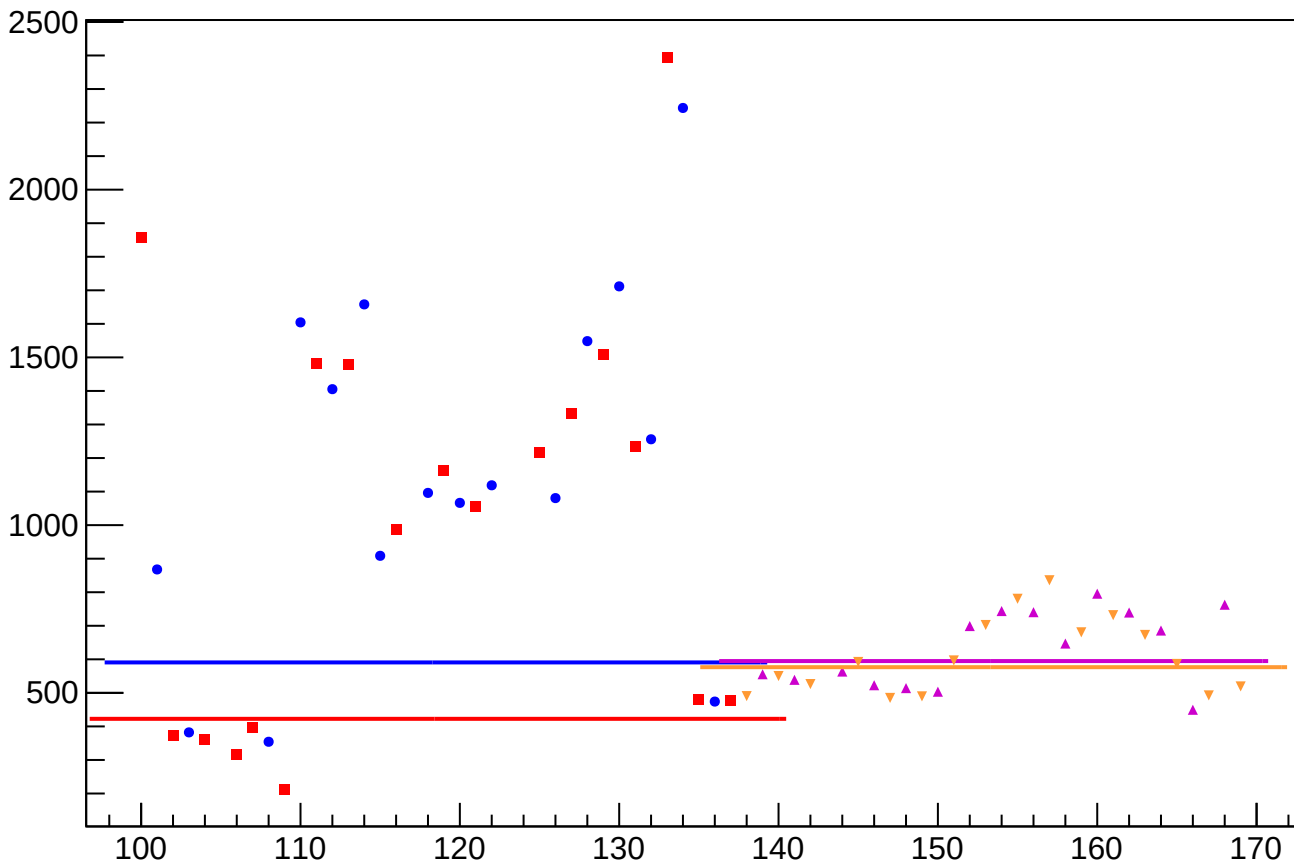
Right: 14.101 $\pm$ 156.594 χ^2 /NDF: 36.2/33

In: -35.318 $\pm$ 143.538 χ^2 /NDF:29.1/30

Out: 155.008 $\pm$ 126.441 χ^2 /NDF:52.9/33

All: 71.850 $\pm$ 94.879 χ^2 /NDF: 83.0/64

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 590.747+/-0.184 χ^2/NDF : 3885530.6/15

Left Out: 576.567+/-0.117 χ^2/NDF : 708734.7/15

Right Out: 422.634+/-0.139 χ^2/NDF : 4857932.7/17

Left In: 594.796+/-0.122 χ^2/NDF : 741014.7/14

Left: 585.332+/-0.084 χ^2/NDF : 1461413.8/30

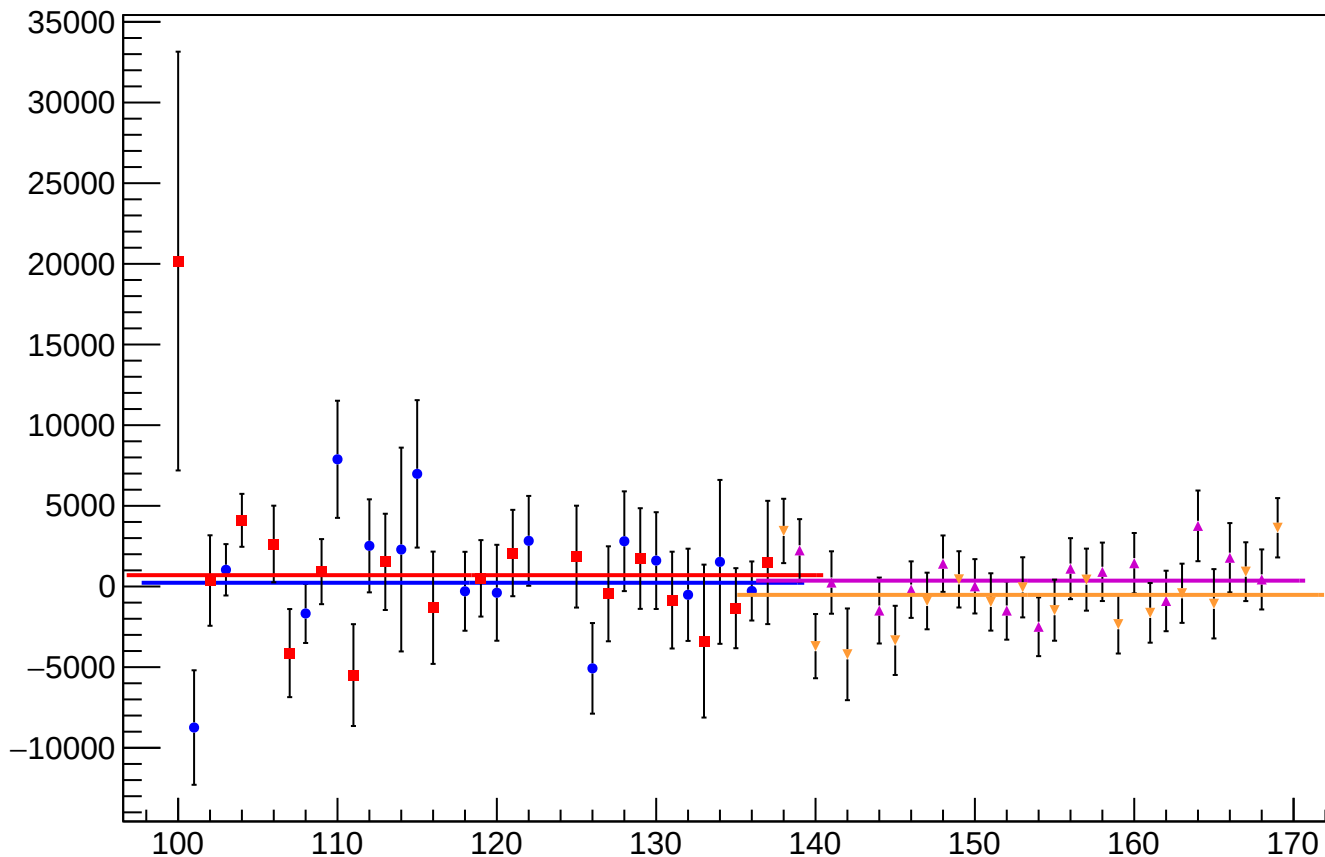
Right: 483.366+/-0.111 χ^2/NDF : 9275354.4/33

In: 593.567+/-0.101 χ^2/NDF : 4626881.8/30

Out: 512.463+/-0.089 χ^2/NDF : 6287033.2/33

All: 547.899+/-0.067 χ^2/NDF : 11273451.9/64

asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected



Right In: 230.761+/-666.241 χ^2/NDF : 20.7/15

Left Out: -519.559+/-479.014 χ^2/NDF : 18.0/15

Right Out: 702.268+/-648.319 χ^2/NDF : 17.0/17

Left In: 362.363+/-484.754 χ^2/NDF : 9.7/14

Left: -83.852+/-340.725 χ^2/NDF : 29.4/30

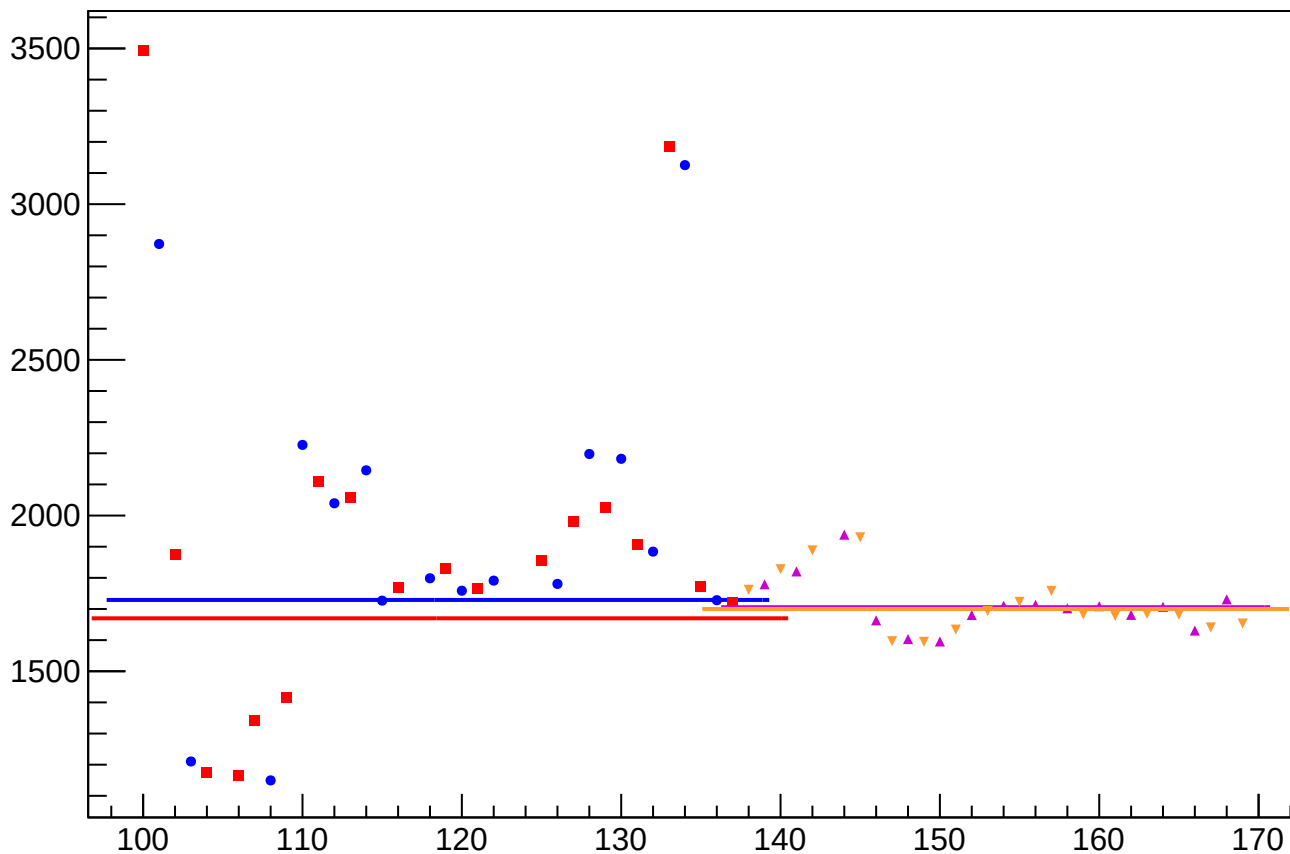
Right: 472.942+/-464.638 χ^2/NDF : 38.0/33

In: 316.809+/-391.978 χ^2/NDF : 30.4/30

Out: -88.095+/-385.262 χ^2/NDF : 37.4/33

All: 110.858+/-274.765 χ^2/NDF : 68.3/64

asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1729.050 $\pm$ 0.471 χ^2 /NDF: 942079.1/15

Left Out: 1699.966 $\pm$ 0.339 χ^2 /NDF: 65285.7/15

Right Out: 1670.056 $\pm$ 0.458 χ^2 /NDF: 744452.0/17

Left In: 1705.750 $\pm$ 0.343 χ^2 /NDF: 56083.5/14

Left: 1702.823 $\pm$ 0.241 χ^2 /NDF: 121513.3/30

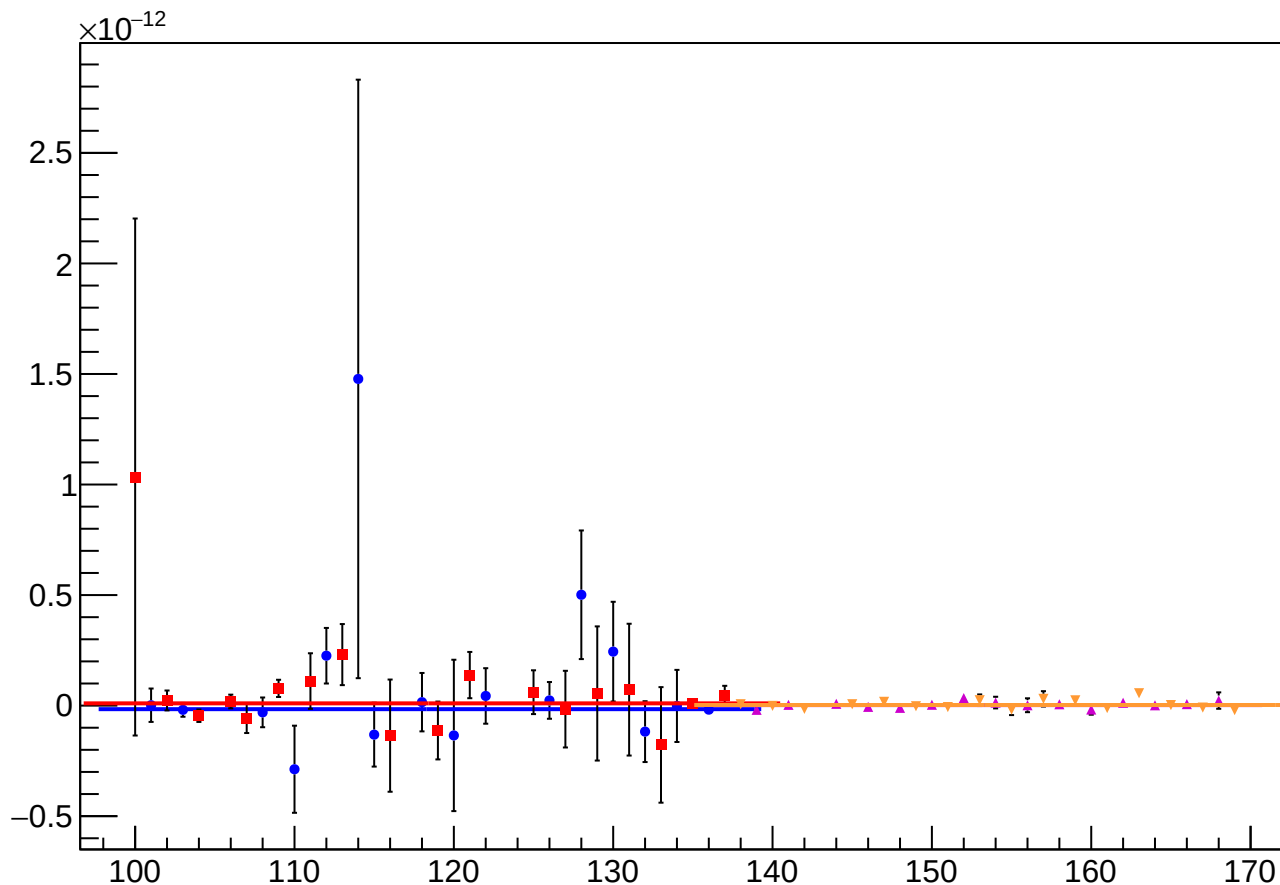
Right: 1698.749 $\pm$ 0.329 χ^2 /NDF: 1694585.4/33

In: 1713.815 $\pm$ 0.277 χ^2 /NDF: 999762.1/30

Out: 1689.404 $\pm$ 0.272 χ^2 /NDF: 812491.4/33

All: 1701.399 $\pm$ 0.194 χ^2 /NDF: 1816198.7/64

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 13.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :14.9/15

Right Out: 0.000+/-0.000 χ^2/NDF : 16.4/17

Left In: 0.000+/-0.000 χ^2/NDF :7.3/14

Left: 0.000+/-0.000 χ^2/NDF : 22.2/30

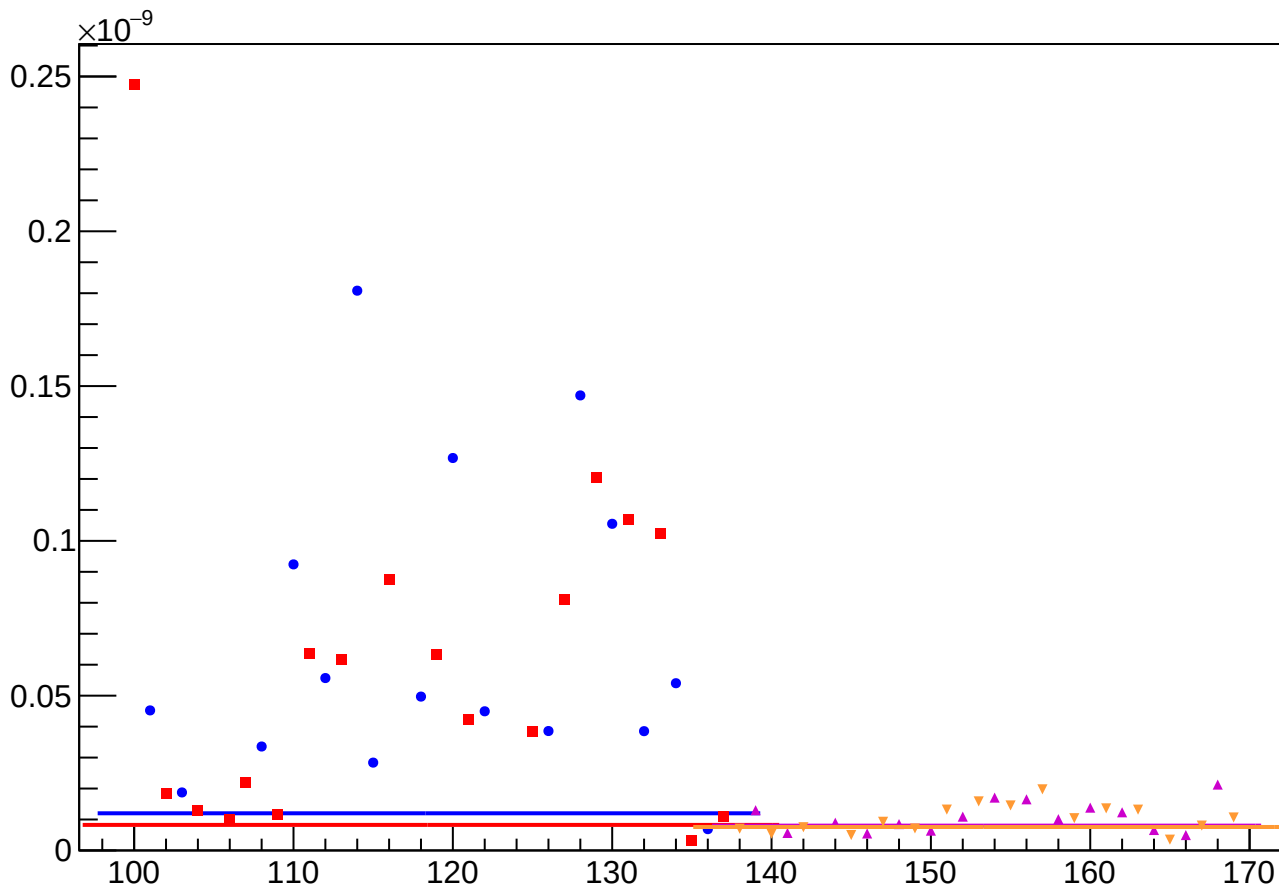
Right: -0.000+/-0.000 χ^2/NDF : 33.5/33

In: 0.000+/-0.000 χ^2/NDF :23.5/30

Out: 0.000+/-0.000 χ^2/NDF :31.9/33

All: 0.000+/-0.000 χ^2/NDF : 56.0/64

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3425893.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :1789305.4/15

Right Out: 0.000+/-0.000 χ^2/NDF : 3510130.7/17

Left In: 0.000+/-0.000 χ^2/NDF :1532839.6/14

Left: 0.000+/-0.000 χ^2/NDF : 3335555.5/30

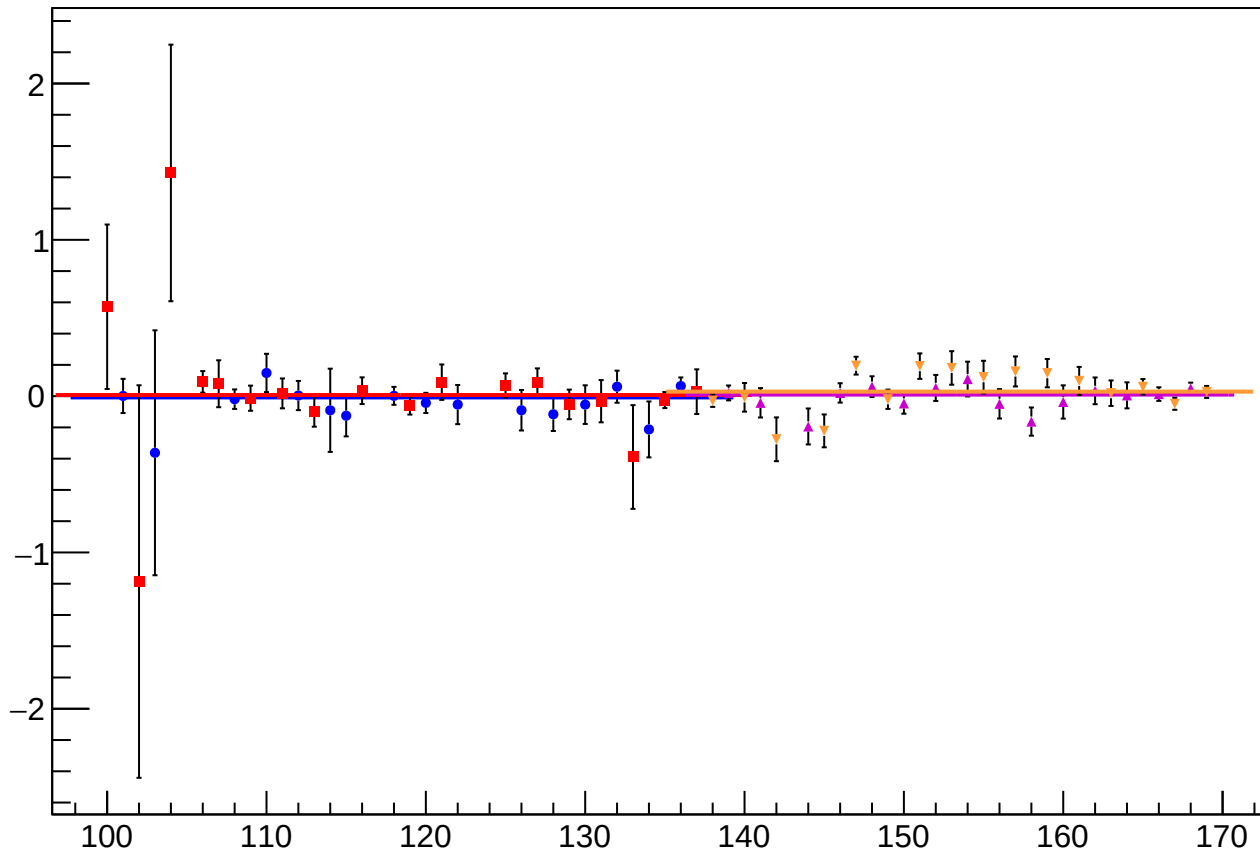
Right: 0.000+/-0.000 χ^2/NDF : 7091803.5/33

In: 0.000+/-0.000 χ^2/NDF :5222994.4/30

Out: 0.000+/-0.000 χ^2/NDF :5309655.0/33

All: 0.000+/-0.000 χ^2/NDF : 10588955.1/64

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.023 χ^2/NDF : 8.3/15

Left Out: 0.029 ± 0.016 χ^2/NDF : 37.2/15

Right Out: 0.007 ± 0.022 χ^2/NDF : 13.7/17

Left In: 0.010 ± 0.017 χ^2/NDF : 11.4/14

Left: 0.020 ± 0.012 χ^2/NDF : 49.2/30

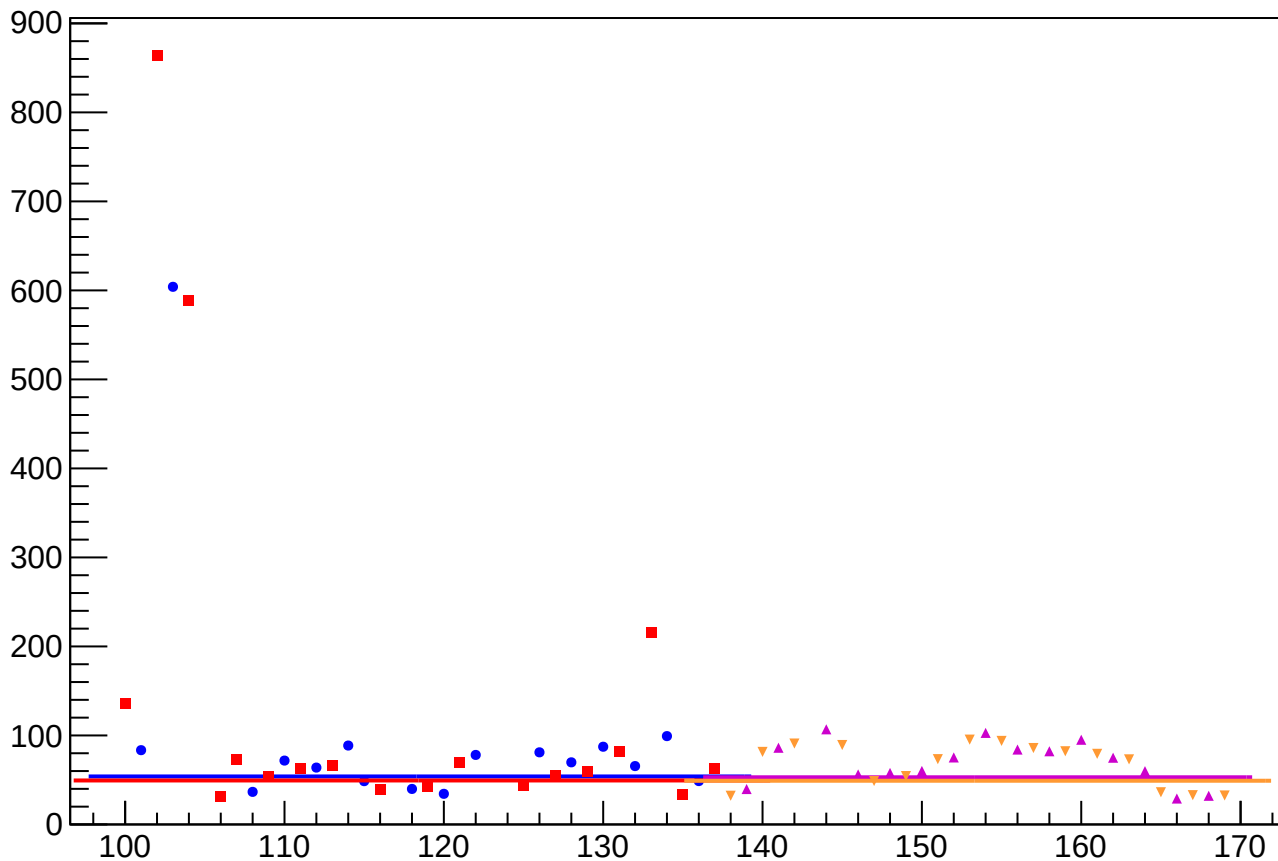
Right: -0.000 ± 0.016 χ^2/NDF : 22.2/33

In: 0.003 ± 0.014 χ^2/NDF : 20.1/30

Out: 0.022 ± 0.013 χ^2/NDF : 51.5/33

All: 0.013 ± 0.009 χ^2/NDF : 72.5/64

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 53.926 $\pm$ 0.016 χ^2 /NDF: 2214348.1/15

Left Out: 49.109 $\pm$ 0.011 χ^2 /NDF: 3827617.3/15

Right Out: 49.420 $\pm$ 0.016 χ^2 /NDF: 3017719.3/17

Left In: 52.993 $\pm$ 0.012 χ^2 /NDF: 3545973.3/14

Left: 50.891 $\pm$ 0.008 χ^2 /NDF: 7429683.7/30

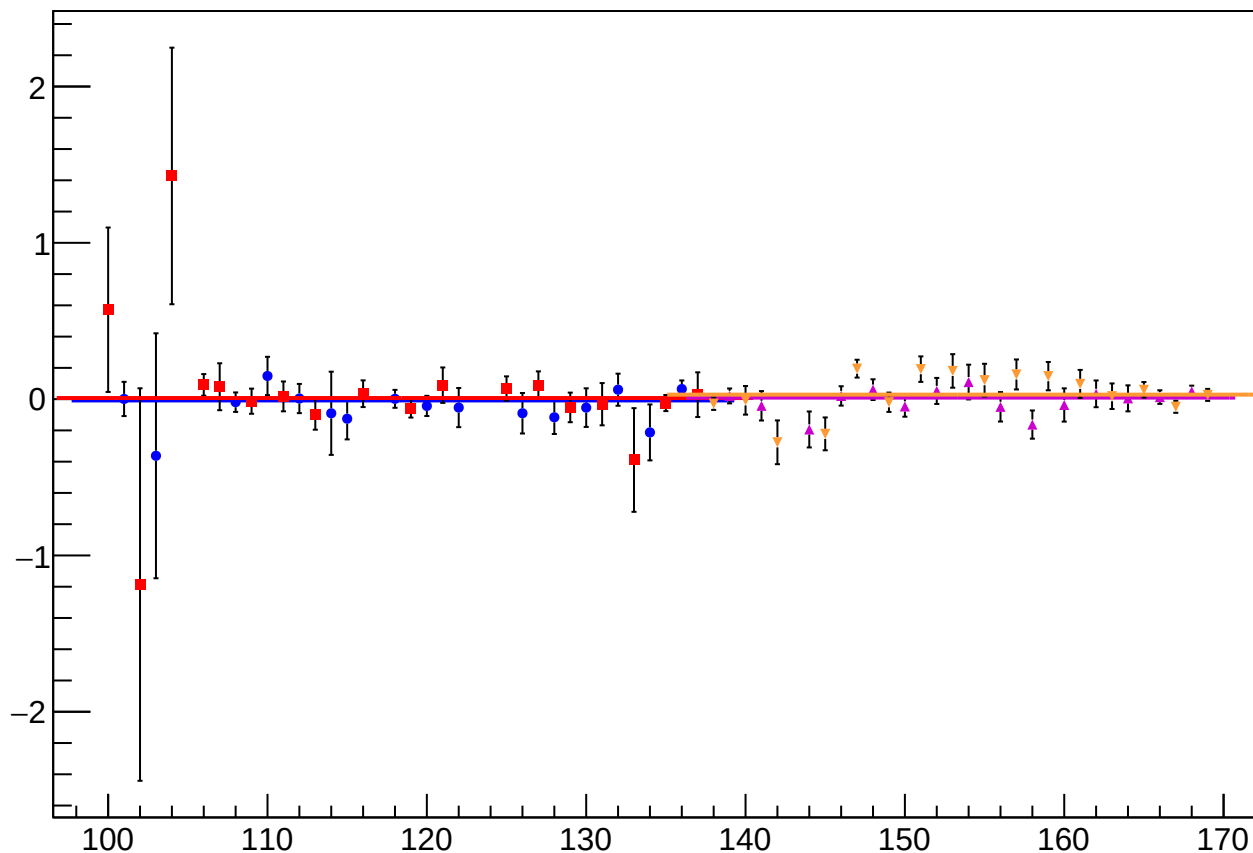
Right: 51.585 $\pm$ 0.011 χ^2 /NDF: 5271581.7/33

In: 53.322 $\pm$ 0.010 χ^2 /NDF: 5762431.7/30

Out: 49.212 $\pm$ 0.009 χ^2 /NDF: 6845597.4/33

All: 51.129 $\pm$ 0.007 χ^2 /NDF: 12703732.5/64

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.023 χ^2/NDF : 8.3/15

Left Out: 0.029 ± 0.016 χ^2/NDF : 37.2/15

Right Out: 0.007 ± 0.022 χ^2/NDF : 13.7/17

Left In: 0.010 ± 0.017 χ^2/NDF : 11.4/14

Left: 0.020 ± 0.012 χ^2/NDF : 49.2/30

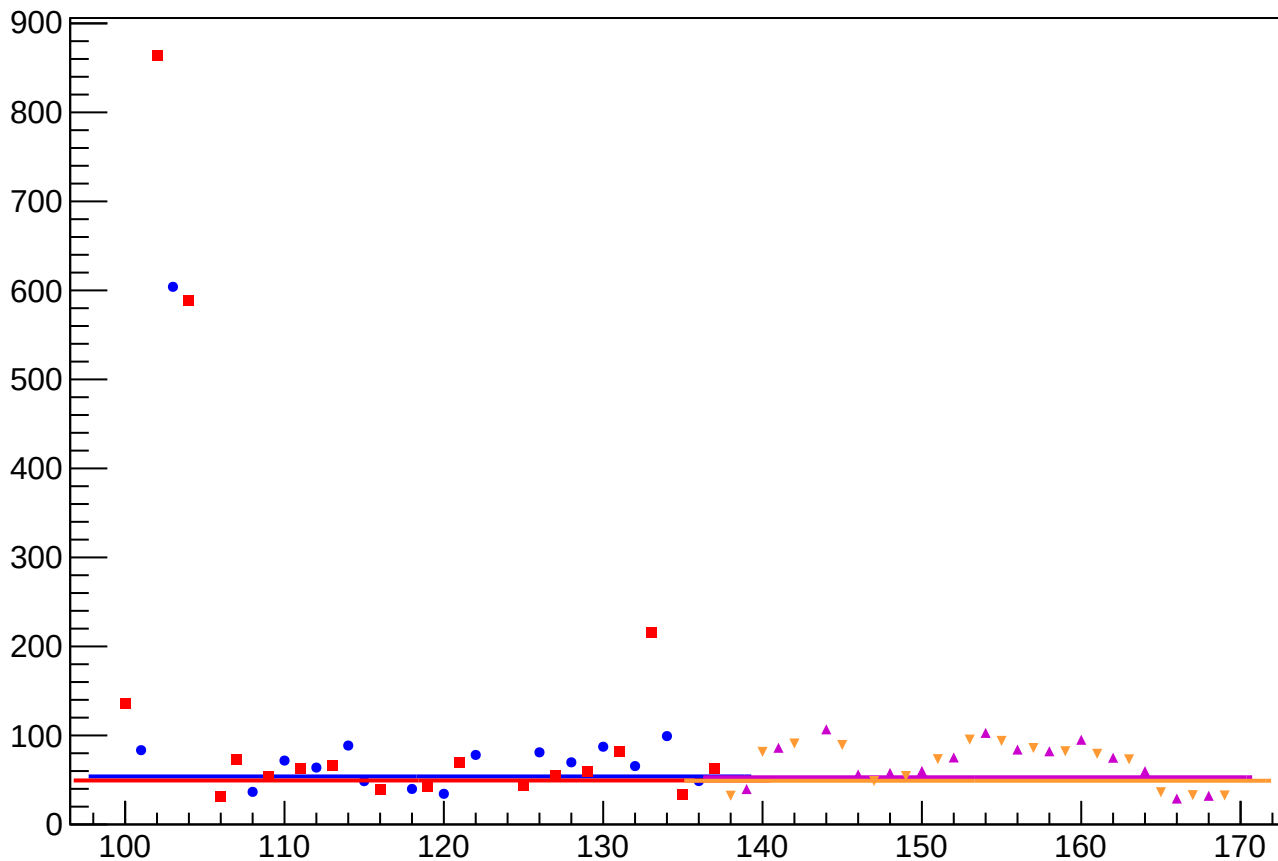
Right: -0.000 ± 0.016 χ^2/NDF : 22.2/33

In: 0.003 ± 0.014 χ^2/NDF : 20.1/30

Out: 0.022 ± 0.013 χ^2/NDF : 51.5/33

All: 0.013 ± 0.009 χ^2/NDF : 72.5/64

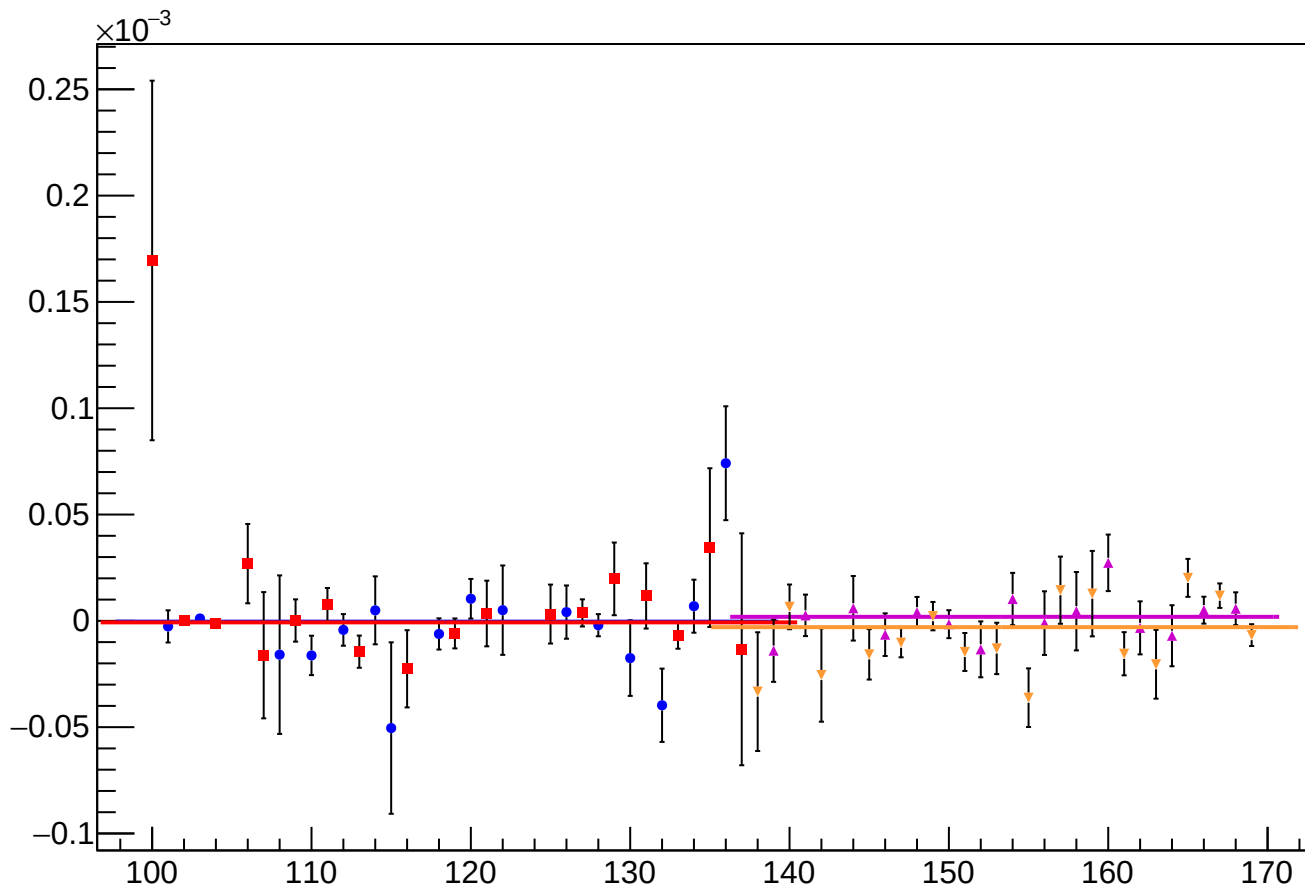
asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 53.926 $\pm$ 0.016 χ^2 /NDF: 2214348.1/15
 Left Out: 49.109 $\pm$ 0.011 χ^2 /NDF: 3827617.3/15
 Right Out: 49.420 $\pm$ 0.016 χ^2 /NDF: 3017719.3/17
 Left In: 52.993 $\pm$ 0.012 χ^2 /NDF: 3545973.3/14

Left: 50.891 $\pm$ 0.008 χ^2 /NDF: 7429683.7/30
 Right: 51.585 $\pm$ 0.011 χ^2 /NDF: 5271581.7/33
 In: 53.322 $\pm$ 0.010 χ^2 /NDF: 5762431.7/30
 Out: 49.212 $\pm$ 0.009 χ^2 /NDF: 6845597.4/33
 All: 51.129 $\pm$ 0.007 χ^2 /NDF: 12703732.5/64

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 22.1/15$

Left Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 32.5/15$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 17.8/17$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 8.9/14$

Left: -0.000 ± 0.000 $\chi^2/\text{NDF}: 43.4/30$

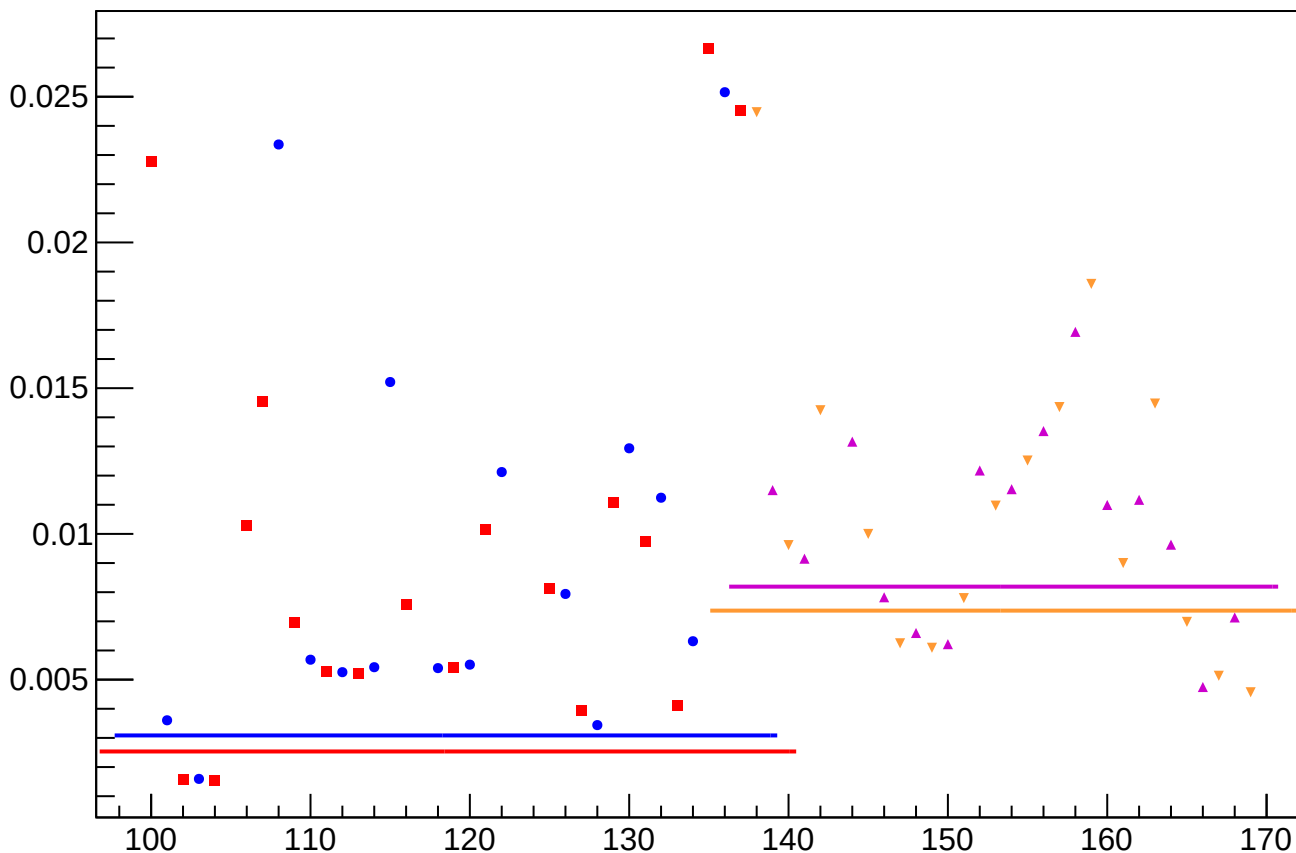
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 40.0/33$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 31.6/30$

Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 51.1/33$

All: -0.000 ± 0.000 $\chi^2/\text{NDF}: 83.4/64$

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 5779108.6/15

Left Out: 0.007+/-0.000

χ^2/NDF : 4075930.4/15

Right Out: 0.003+/-0.000

χ^2/NDF : 6237059.6/17

Left In: 0.008+/-0.000

χ^2/NDF : 2504899.3/14

Left: 0.008+/-0.000

χ^2/NDF : 6694074.8/30

Right: 0.003+/-0.000

χ^2/NDF : 12159145.0/33

In: 0.005+/-0.000

χ^2/NDF : 13902911.3/30

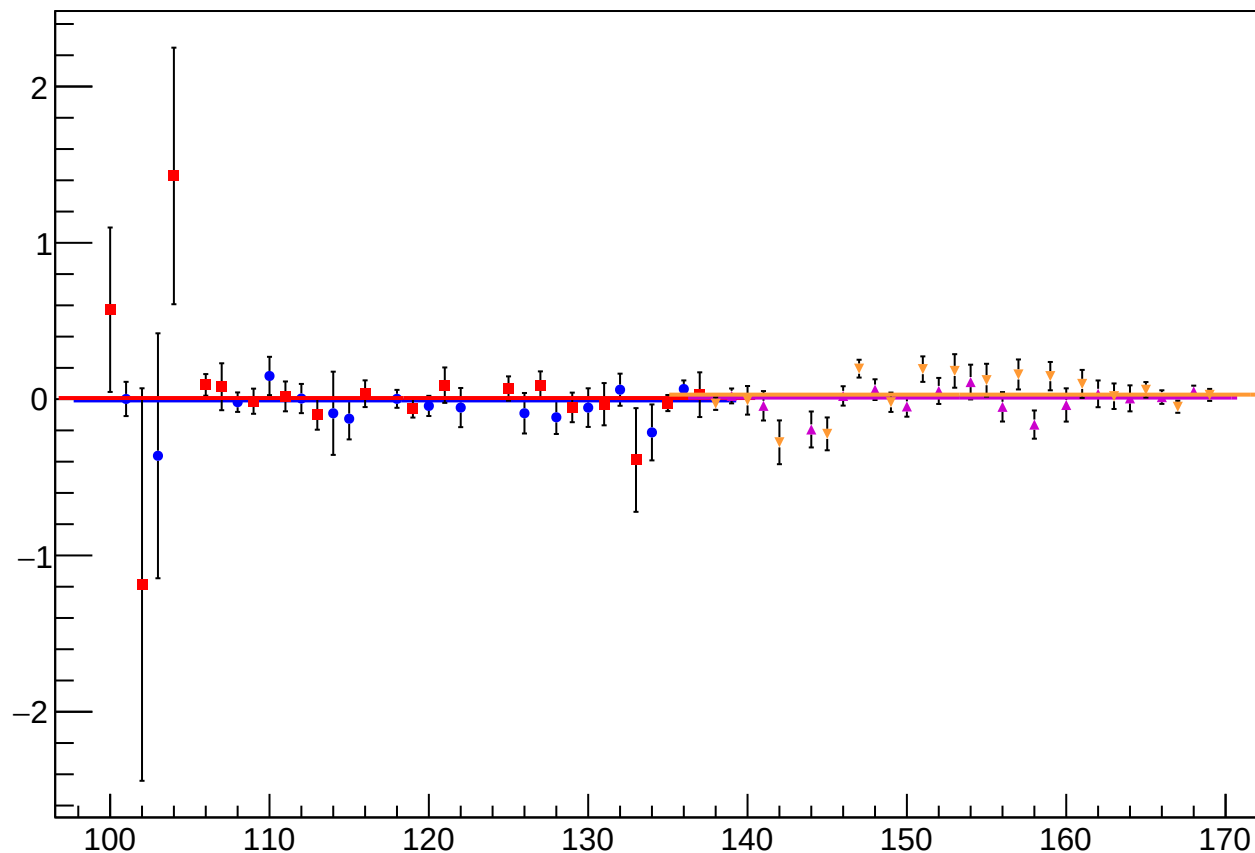
Out: 0.004+/-0.000

χ^2/NDF : 17068309.3/33

All: 0.004+/-0.000

χ^2/NDF : 31456861.1/64

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.023 χ^2/NDF : 8.3/15

Left Out: 0.029 ± 0.016 χ^2/NDF : 37.2/15

Right Out: 0.007 ± 0.022 χ^2/NDF : 13.7/17

Left In: 0.010 ± 0.017 χ^2/NDF : 11.4/14

Left: 0.020 ± 0.012 χ^2/NDF : 49.2/30

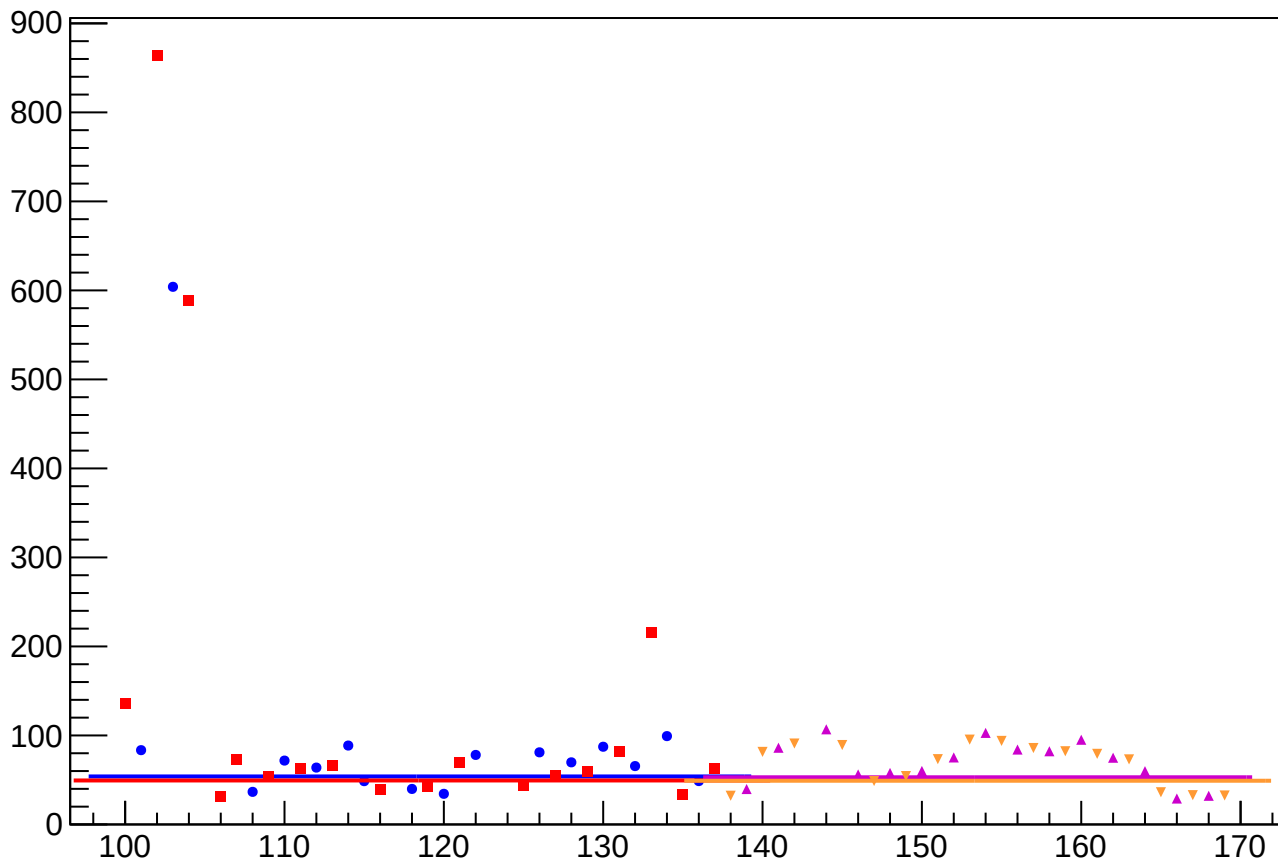
Right: -0.000 ± 0.016 χ^2/NDF : 22.2/33

In: 0.003 ± 0.014 χ^2/NDF : 20.1/30

Out: 0.022 ± 0.013 χ^2/NDF : 51.5/33

All: 0.013 ± 0.009 χ^2/NDF : 72.5/64

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 53.929 $\pm$ 0.016 χ^2 /NDF: 2213950.2/15

Left Out: 49.111 $\pm$ 0.011 χ^2 /NDF: 3826884.7/15

Right Out: 49.422 $\pm$ 0.016 χ^2 /NDF: 3017440.2/17

Left In: 52.994 $\pm$ 0.012 χ^2 /NDF: 3545677.0/14

Left: 50.893 $\pm$ 0.008 χ^2 /NDF: 7428615.5/30

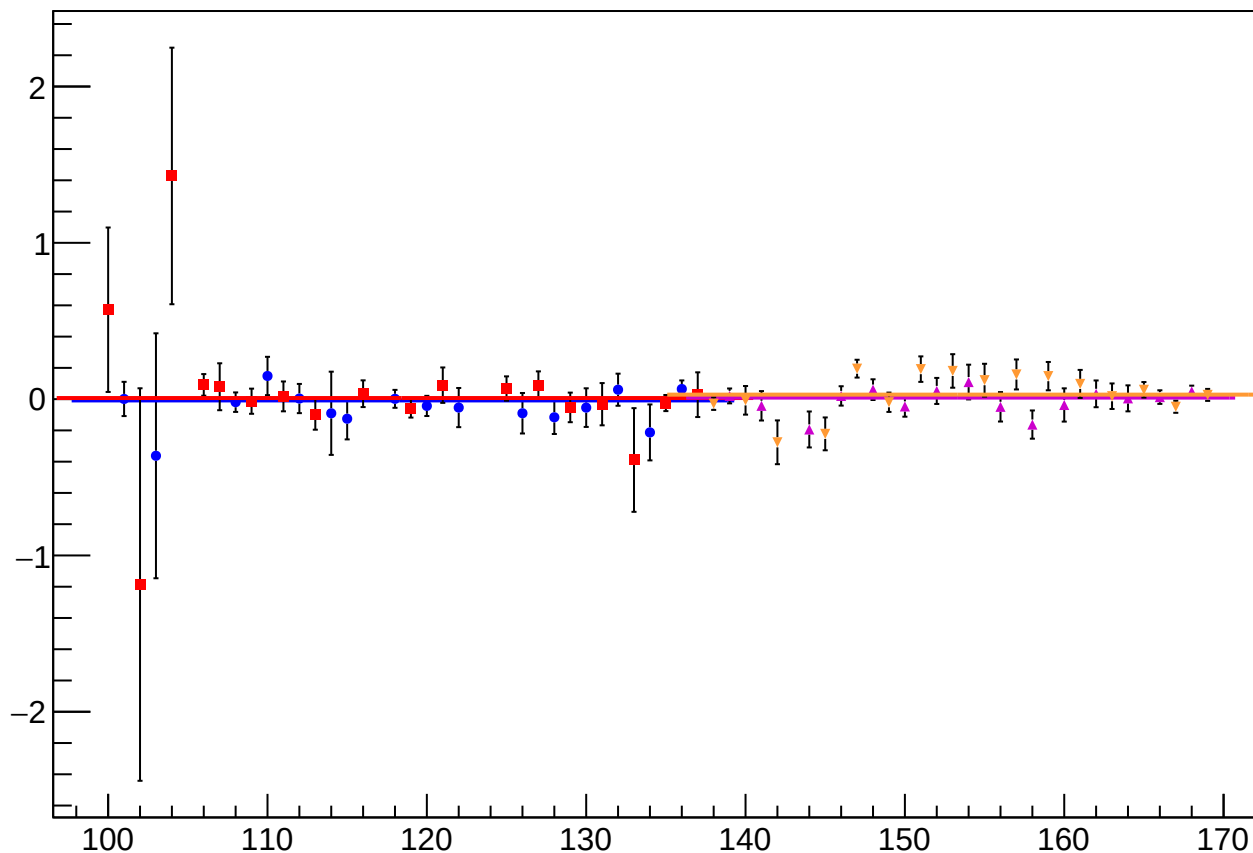
Right: 51.588 $\pm$ 0.011 χ^2 /NDF: 5270924.4/33

In: 53.324 $\pm$ 0.010 χ^2 /NDF: 5761747.8/30

Out: 49.215 $\pm$ 0.009 χ^2 /NDF: 6844585.3/33

All: 51.131 $\pm$ 0.007 χ^2 /NDF: 12702013.0/64

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.023 χ^2/NDF : 8.3/15

Left Out: 0.029 ± 0.016 χ^2/NDF : 37.2/15

Right Out: 0.007 ± 0.022 χ^2/NDF : 13.7/17

Left In: 0.010 ± 0.017 χ^2/NDF : 11.4/14

Left: 0.020 ± 0.012 χ^2/NDF : 49.2/30

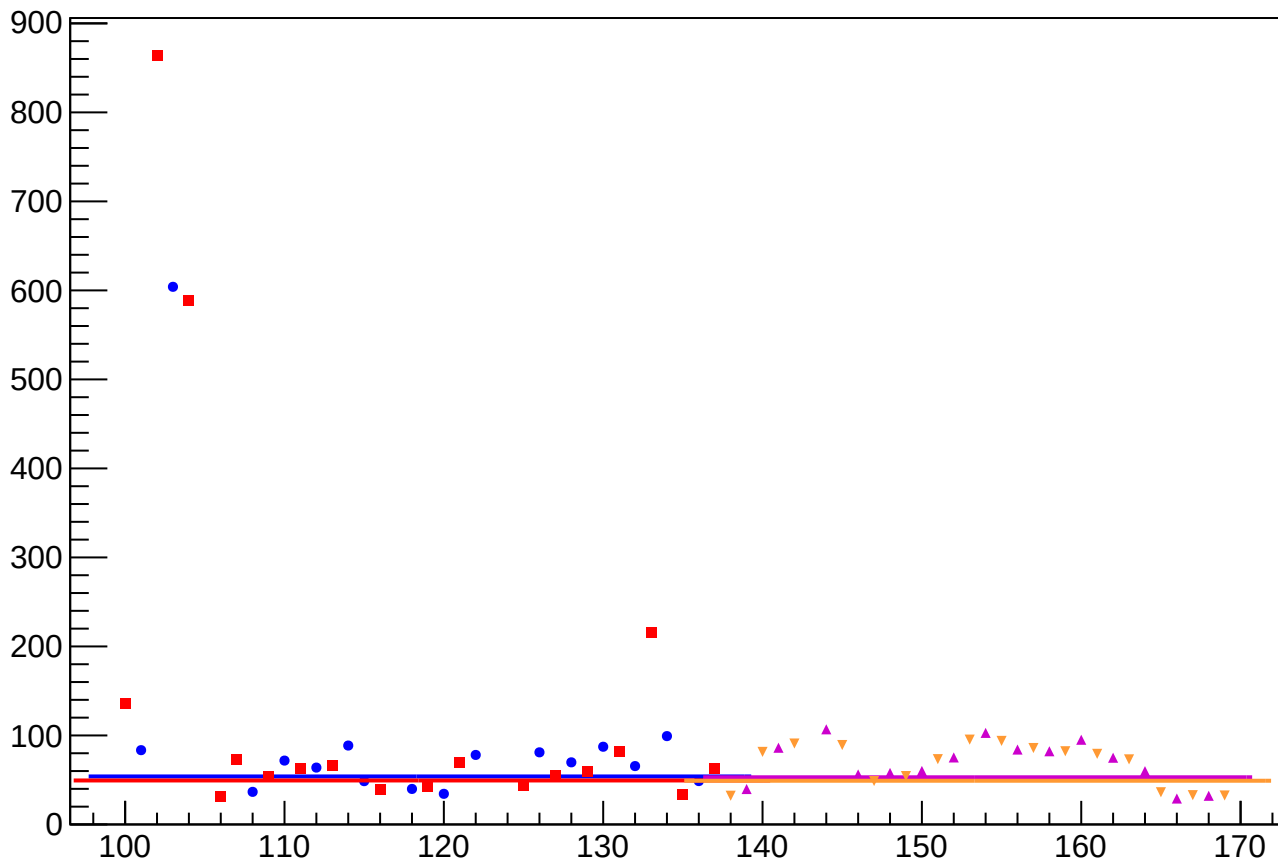
Right: -0.000 ± 0.016 χ^2/NDF : 22.2/33

In: 0.003 ± 0.014 χ^2/NDF : 20.1/30

Out: 0.022 ± 0.013 χ^2/NDF : 51.5/33

All: 0.013 ± 0.009 χ^2/NDF : 72.5/64

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 53.929+/-0.016 χ^2/NDF : 2213950.2/15

Left Out: 49.111+/-0.011 χ^2/NDF : 3826884.7/15

Right Out: 49.422+/-0.016 χ^2/NDF : 3017440.2/17

Left In: 52.994+/-0.012 χ^2/NDF : 3545677.0/14

Left: 50.893+/-0.008 χ^2/NDF : 7428615.5/30

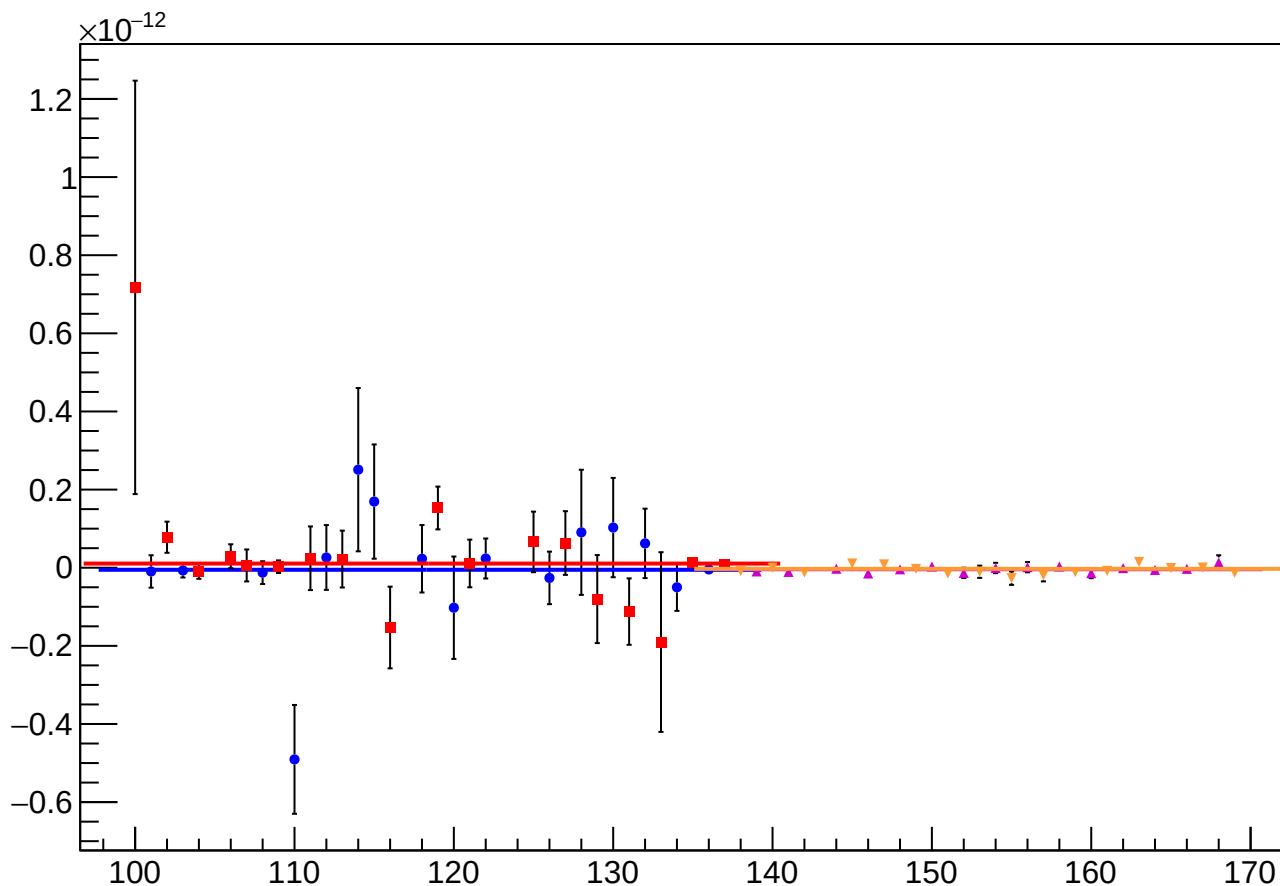
Right: 51.588+/-0.011 χ^2/NDF : 5270924.4/33

In: 53.324+/-0.010 χ^2/NDF : 5761747.8/30

Out: 49.215+/-0.009 χ^2/NDF : 6844585.3/33

All: 51.131+/-0.007 χ^2/NDF : 12702013.0/64

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 18.6/15

Left Out: -0.000+/-0.000 χ^2 /NDF:15.3/15

Right Out: 0.000+/-0.000 χ^2 /NDF: 20.1/17

Left In: -0.000+/-0.000 χ^2 /NDF:6.9/14

Left: -0.000+/-0.000 χ^2 /NDF: 22.3/30

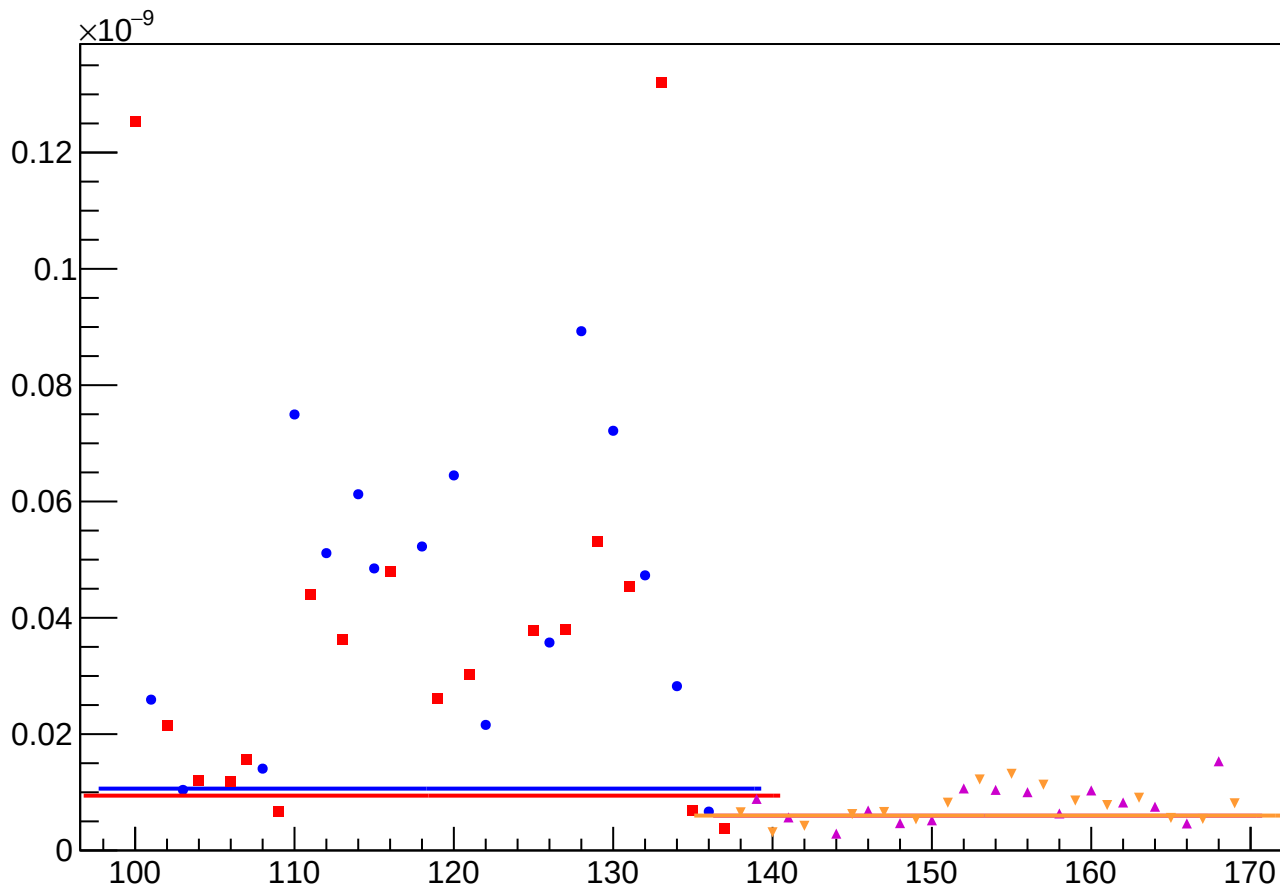
Right: 0.000+/-0.000 χ^2 /NDF: 41.5/33

In: -0.000+/-0.000 χ^2 /NDF:25.5/30

Out: -0.000+/-0.000 χ^2 /NDF:39.3/33

All: -0.000+/-0.000 χ^2 /NDF: 65.6/64

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4557309.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2293642.8/15

Right Out: 0.000+/-0.000 χ^2/NDF : 4029424.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 2646004.5/14

Left: 0.000+/-0.000 χ^2/NDF : 4939771.4/30

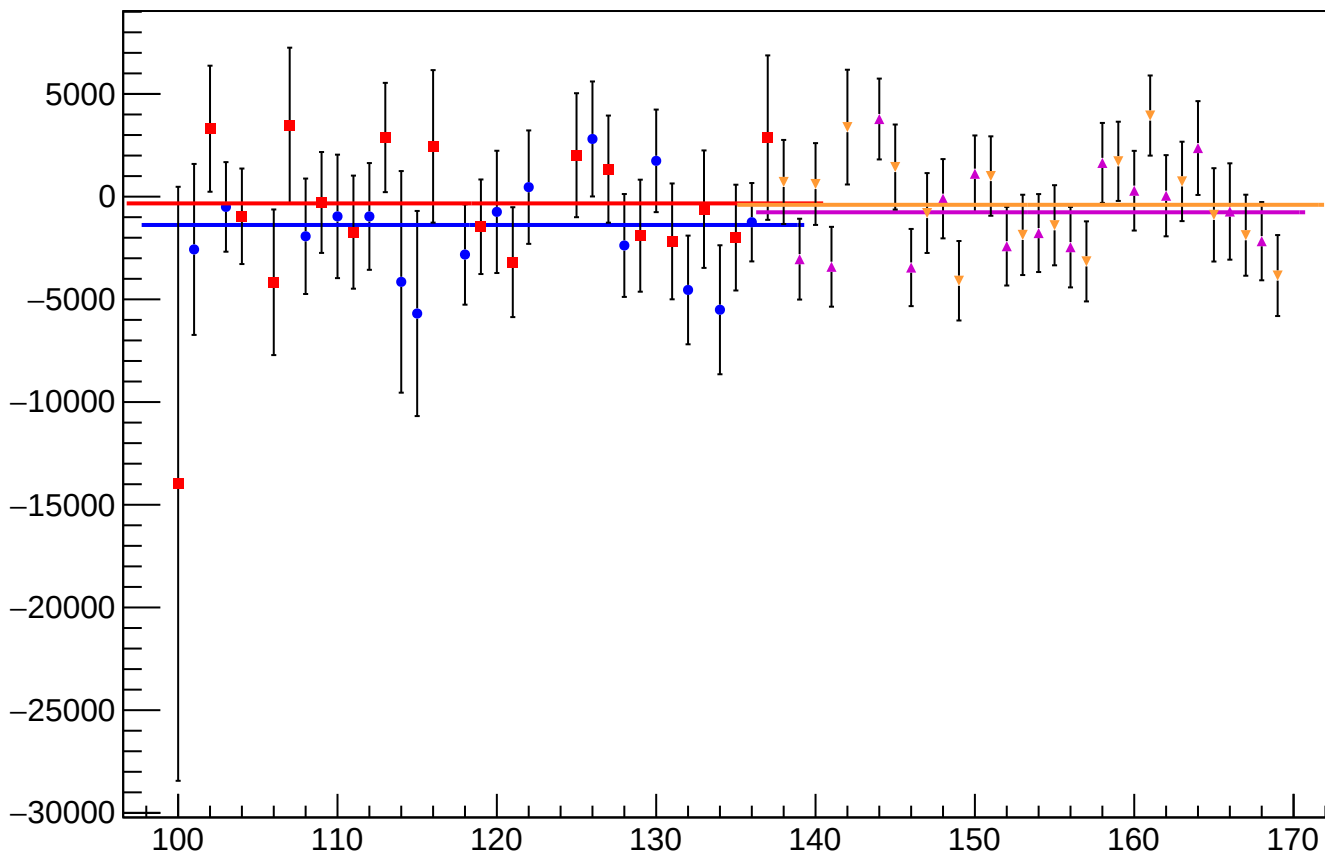
Right: 0.000+/-0.000 χ^2/NDF : 8619590.4/33

In: 0.000+/-0.000 χ^2/NDF : 8041183.4/30

Out: 0.000+/-0.000 χ^2/NDF : 6827323.5/33

All: 0.000+/-0.000 χ^2/NDF : 14869543.7/64

reg_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1378.758 $\pm$ 689.030 χ^2 /NDF: 9.3/15

Left Out: -397.043 $\pm$ 503.323 χ^2 /NDF:20.4/15

Right Out: -328.770 $\pm$ 683.888 χ^2 /NDF: 11.0/17

Left In: -761.113 $\pm$ 508.503 χ^2 /NDF:17.9/14

Left: -577.214 $\pm$ 357.720 χ^2 /NDF: 38.6/30

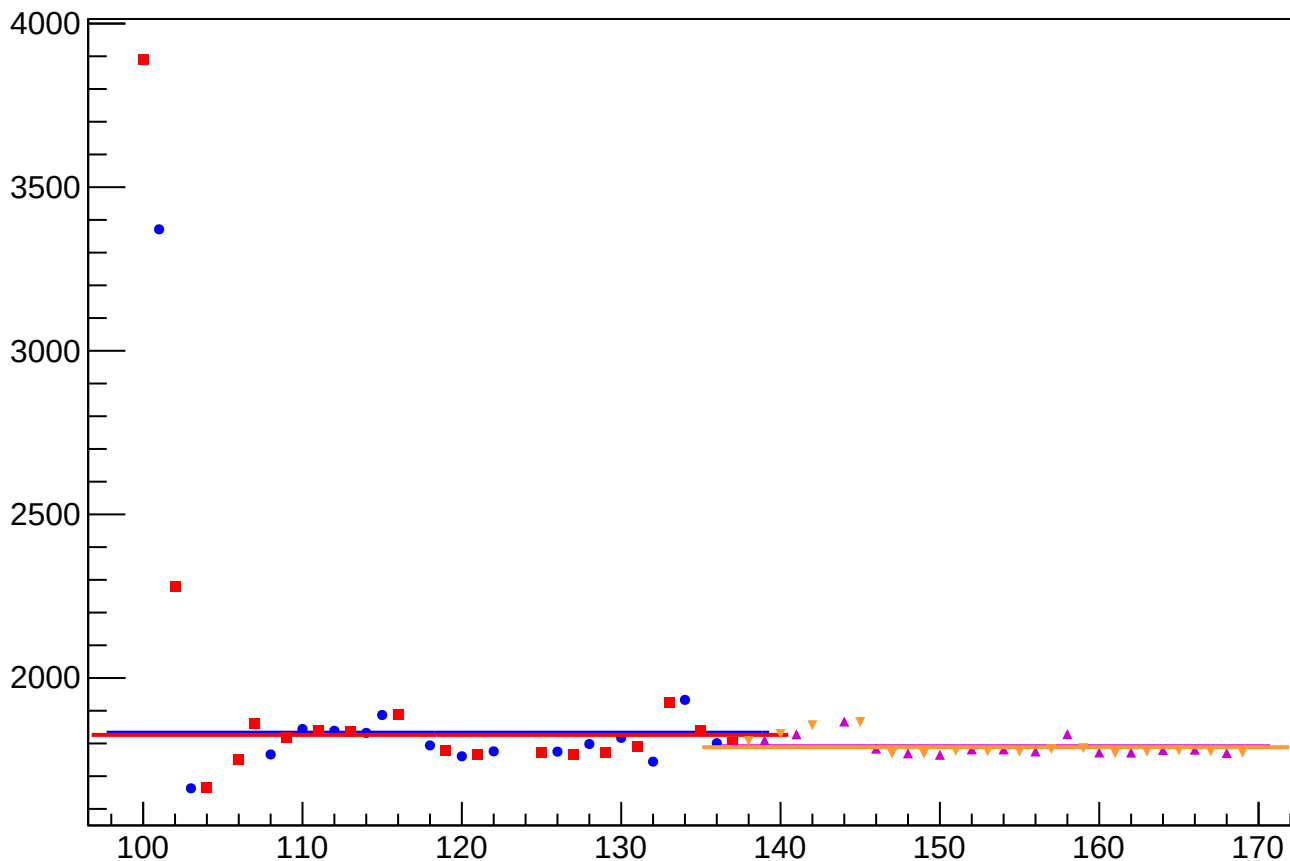
Right: -849.832 $\pm$ 485.390 χ^2 /NDF: 21.5/33

In: -978.895 $\pm$ 409.147 χ^2 /NDF:27.7/30

Out: -373.055 $\pm$ 405.371 χ^2 /NDF:31.4/33

All: -673.166 $\pm$ 287.966 χ^2 /NDF: 60.3/64

reg_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1832.947 $\pm$ 0.487 χ^2 /NDF: 295439.4/15

Left Out: 1788.644 $\pm$ 0.356 χ^2 /NDF: 6106.2/15

Right Out: 1826.208 $\pm$ 0.484 χ^2 /NDF: 103006.6/17

Left In: 1791.339 $\pm$ 0.360 χ^2 /NDF: 6189.4/14

Left: 1789.978 $\pm$ 0.253 χ^2 /NDF: 12324.0/30

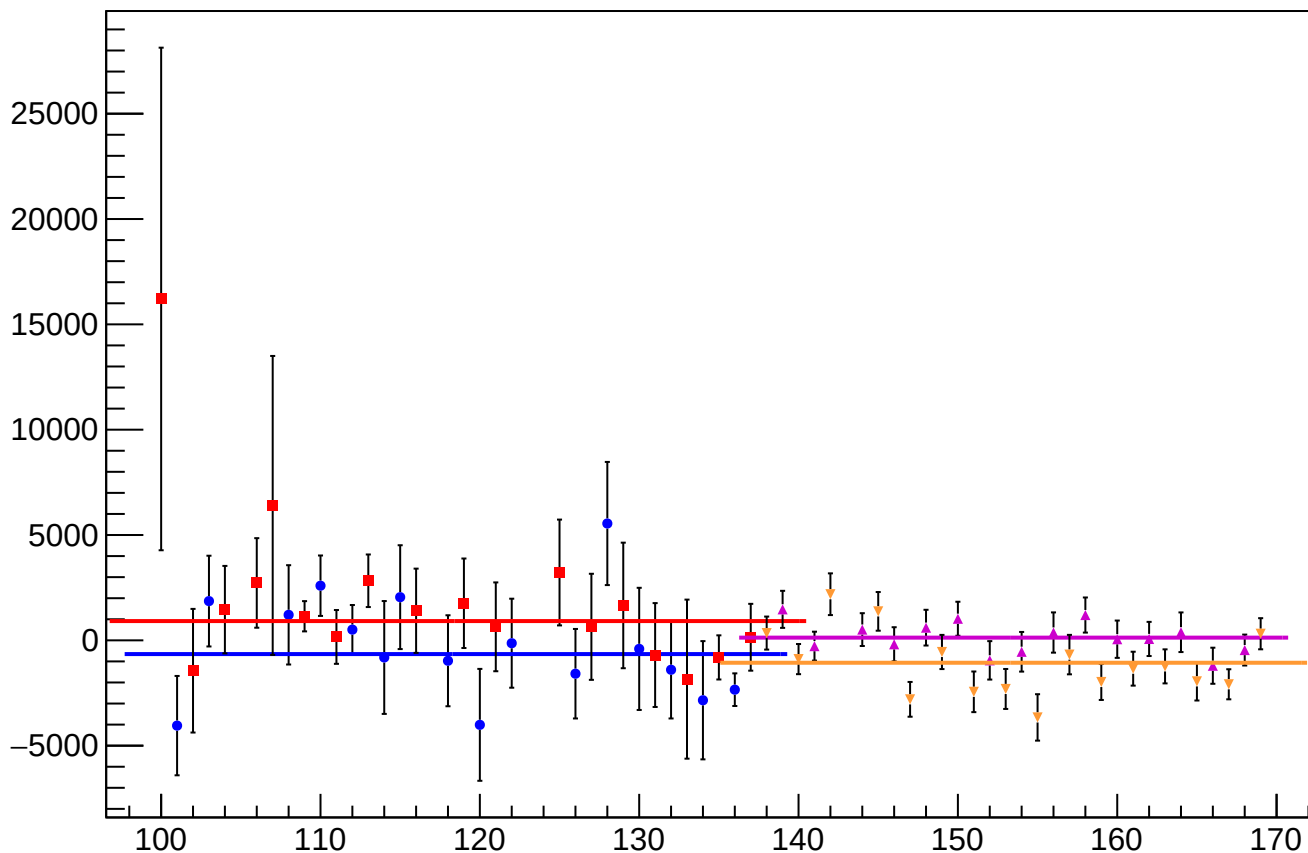
Right: 1829.552 $\pm$ 0.343 χ^2 /NDF: 398542.3/33

In: 1806.010 $\pm$ 0.289 χ^2 /NDF: 306350.2/30

Out: 1801.842 $\pm$ 0.287 χ^2 /NDF: 113026.9/33

All: 1803.907 $\pm$ 0.204 χ^2 /NDF: 419481.8/64

asym_us_dd_atlr_dd_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -651.944 ± 442.135 χ^2/NDF : 23.2/15

Left Out: -1063.517 ± 211.386 χ^2/NDF : 43.2/15

Right Out: 914.717 ± 393.421 χ^2/NDF : 11.5/17

Left In: 128.805 ± 215.508 χ^2/NDF : 11.4/14

Left: -478.869 ± 150.909 χ^2/NDF : 70.2/30

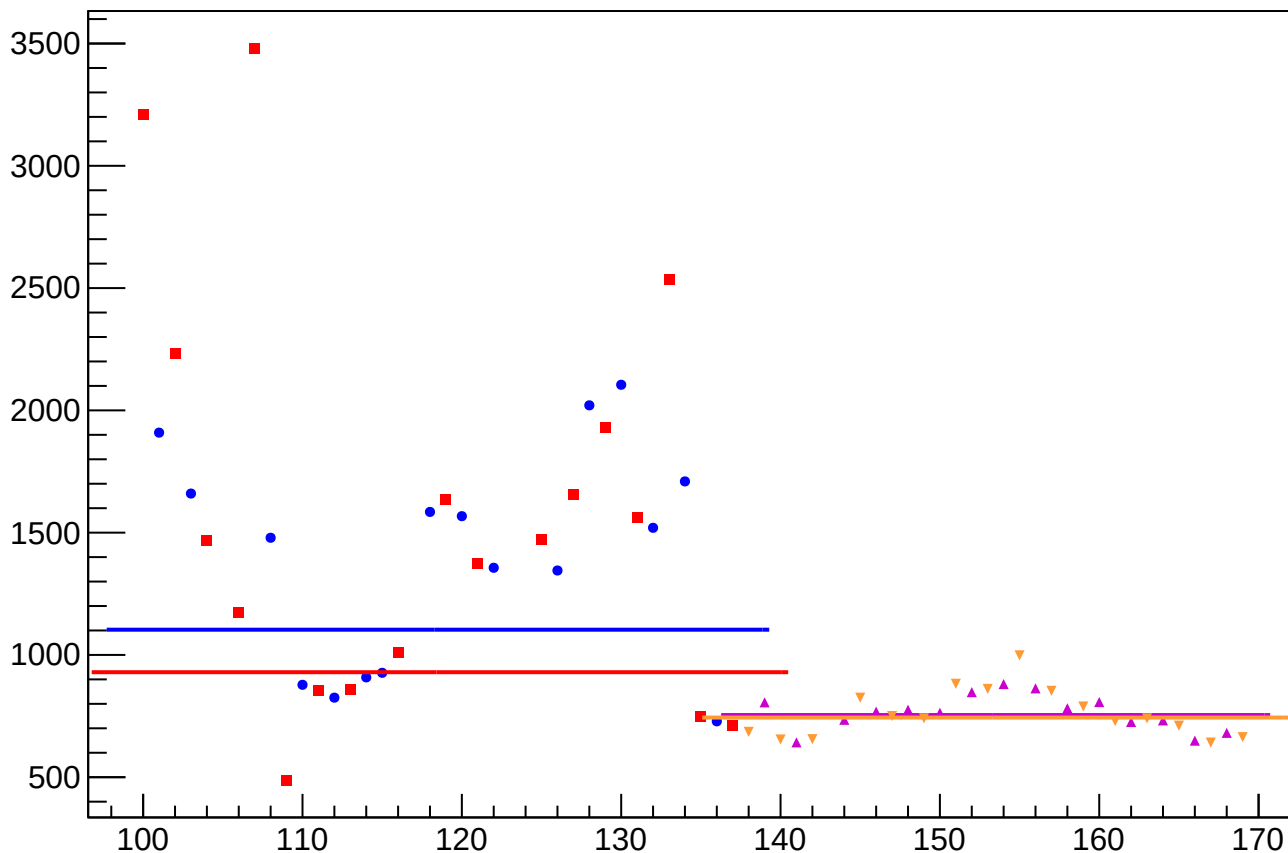
Right: 222.415 ± 293.910 χ^2/NDF : 41.8/33

In: -21.079 ± 193.721 χ^2/NDF : 37.1/30

Out: -620.353 ± 186.209 χ^2/NDF : 74.4/33

All: -332.560 ± 134.247 χ^2/NDF : 116.5/64

asym_us_dd_atlr_dd_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1103.183+/-0.313 χ^2/NDF : 1878176.1/15

Left Out: 743.931+/-0.149 χ^2/NDF : 353311.5/15

Right Out: 929.356+/-0.278 χ^2/NDF : 3054092.4/17

Left In: 754.265+/-0.152 χ^2/NDF : 209162.0/14

Left: 748.998+/-0.107 χ^2/NDF : 564817.4/30

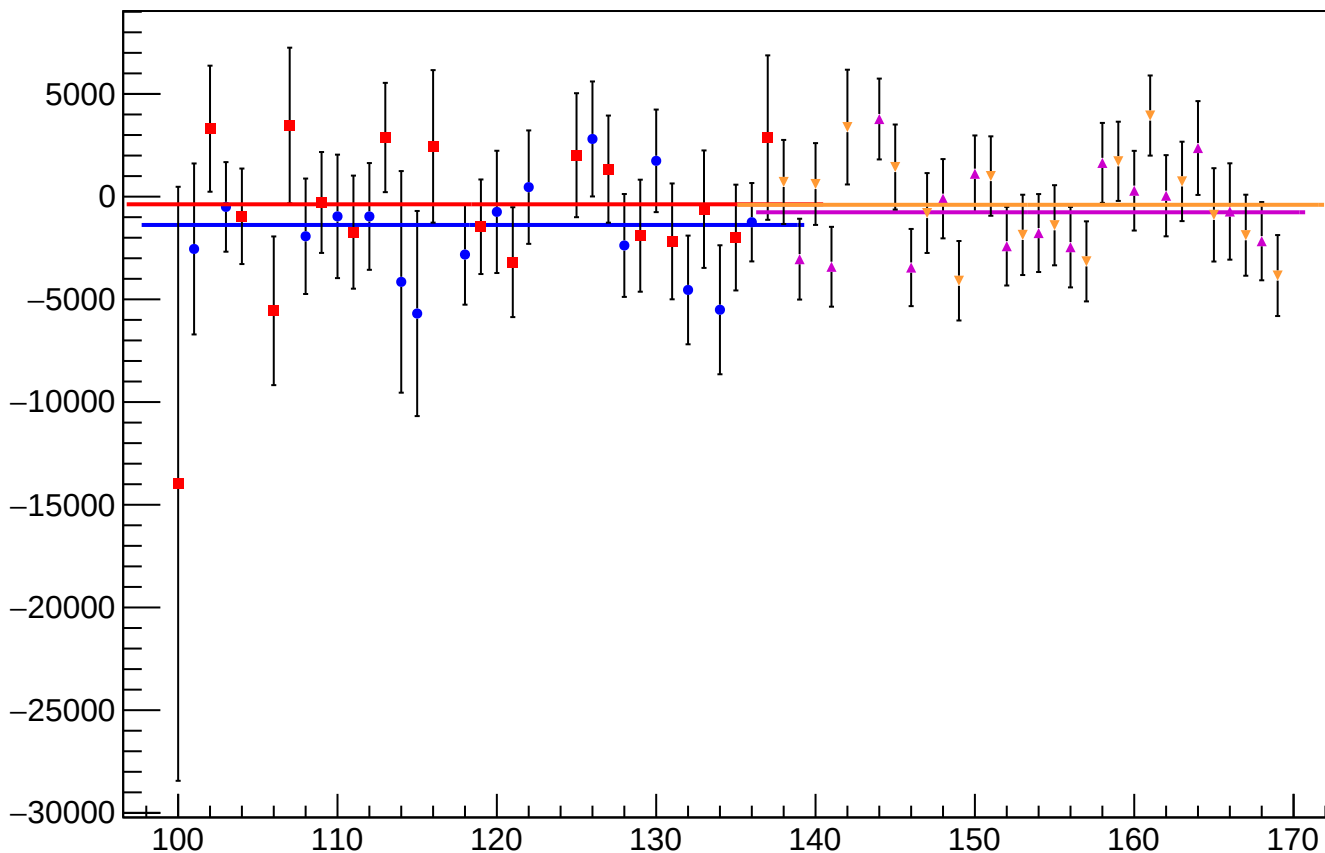
Right: 1006.170+/-0.208 χ^2/NDF : 5104800.3/33

In: 821.248+/-0.137 χ^2/NDF : 3093790.6/30

Out: 785.470+/-0.132 χ^2/NDF : 3752154.3/33

All: 802.652+/-0.095 χ^2/NDF : 6881404.1/64

cor_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1378.133+/-689.030 χ^2/NDF : 9.3/15

Left Out: -396.948+/-503.323 χ^2/NDF : 20.4/15

Right Out: -372.534+/-684.408 χ^2/NDF : 12.0/17

Left In: -761.023+/-508.503 χ^2/NDF : 17.9/14

Left: -577.121+/-357.720 χ^2/NDF : 38.6/30

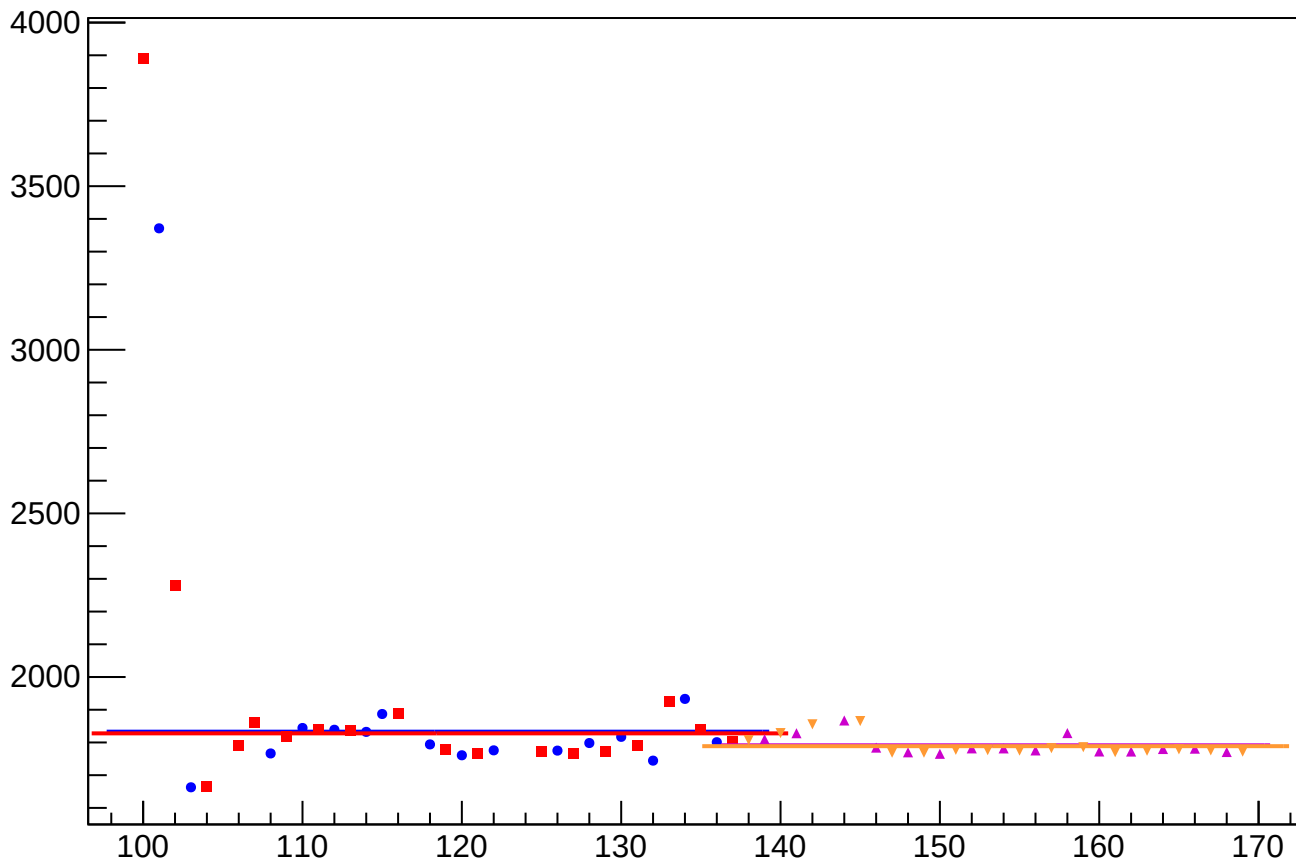
Right: -871.950+/-485.576 χ^2/NDF : 22.3/33

In: -978.617+/-409.147 χ^2/NDF : 27.7/30

Out: -388.378+/-405.479 χ^2/NDF : 32.4/33

All: -680.840+/-288.005 χ^2/NDF : 61.1/64

cor_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1832.947 $\pm$ 0.487 χ^2 /NDF: 295441.2/15

Left Out: 1788.644 $\pm$ 0.356 χ^2 /NDF: 6106.2/15

Right Out: 1827.785 $\pm$ 0.484 χ^2 /NDF: 102270.3/17

Left In: 1791.339 $\pm$ 0.360 χ^2 /NDF: 6189.4/14

Left: 1789.978 $\pm$ 0.253 χ^2 /NDF: 12324.0/30

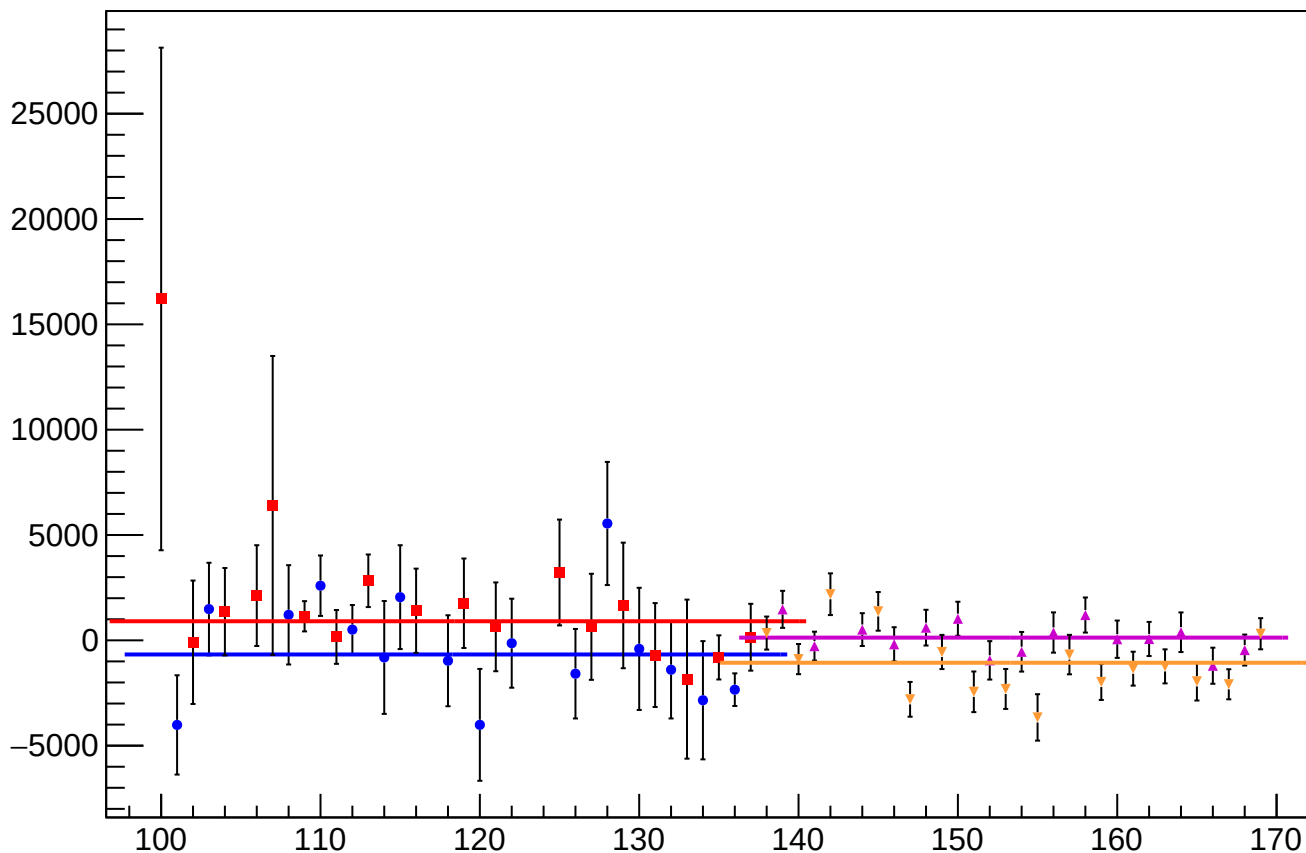
Right: 1830.348 $\pm$ 0.343 χ^2 /NDF: 397768.0/33

In: 1806.010 $\pm$ 0.289 χ^2 /NDF: 306352.0/30

Out: 1802.382 $\pm$ 0.287 χ^2 /NDF: 112621.9/33

All: 1804.180 $\pm$ 0.204 χ^2 /NDF: 419053.3/64

asym_us_dd_atlr_dd_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -670.539+/-442.505 χ^2/NDF : 22.8/15

Left Out: -1063.562+/-211.387 χ^2/NDF : 43.2/15

Right Out: 905.874+/-394.814 χ^2/NDF : 10.5/17

Left In: 128.705+/-215.509 χ^2/NDF : 11.4/14

Left: -478.939+/-150.909 χ^2/NDF : 70.2/30

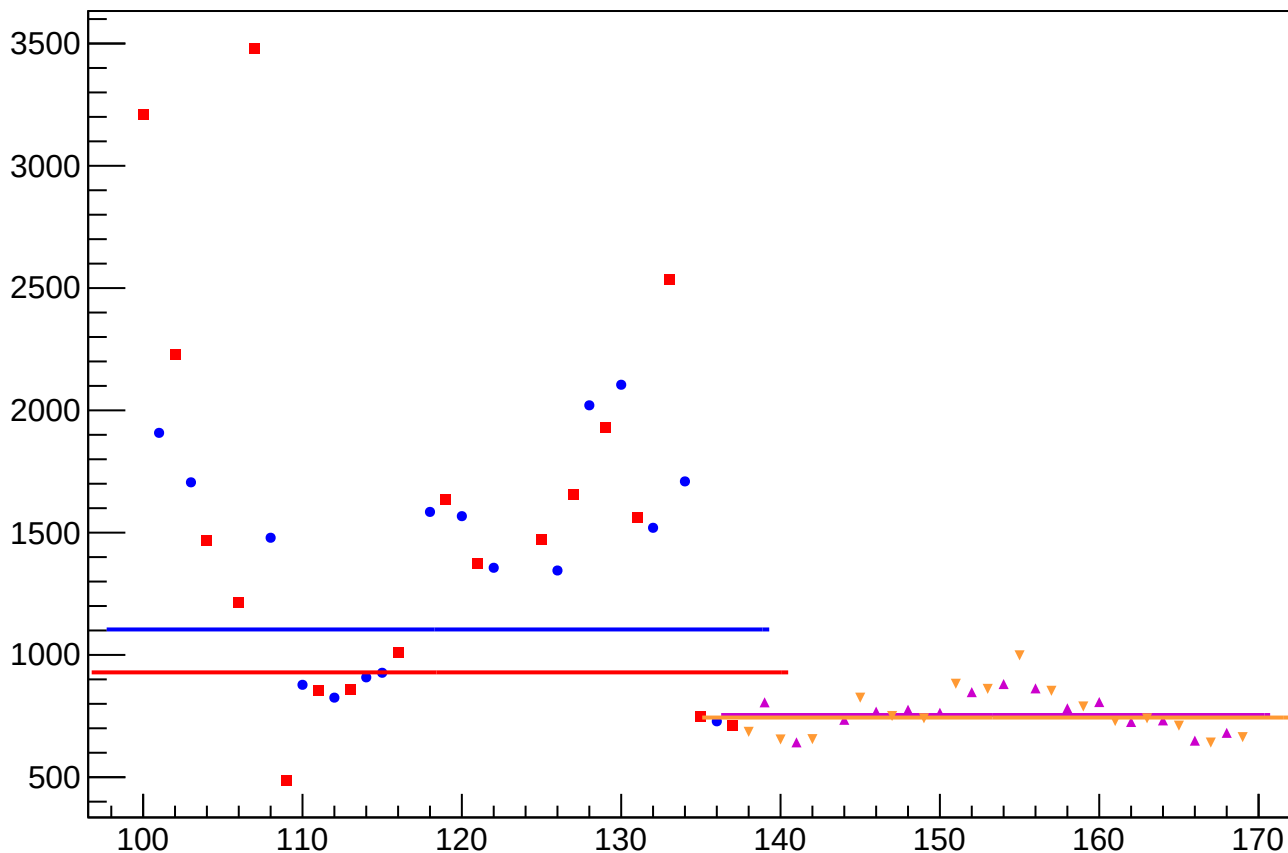
Right: 207.164+/-294.599 χ^2/NDF : 40.3/33

In: -24.523+/-193.752 χ^2/NDF : 36.8/30

Out: -624.781+/-186.357 χ^2/NDF : 73.1/33

All: -336.326+/-134.313 χ^2/NDF : 114.9/64

asym_us_dd_atlr_dd_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1104.103+/-0.313 χ^2/NDF : 1894482.2/15

Left Out: 743.935+/-0.149 χ^2/NDF : 353284.9/15

Right Out: 928.629+/-0.279 χ^2/NDF : 3054381.5/17

Left In: 754.267+/-0.152 χ^2/NDF : 209226.0/14

Left: 749.001+/-0.107 χ^2/NDF : 564853.5/30

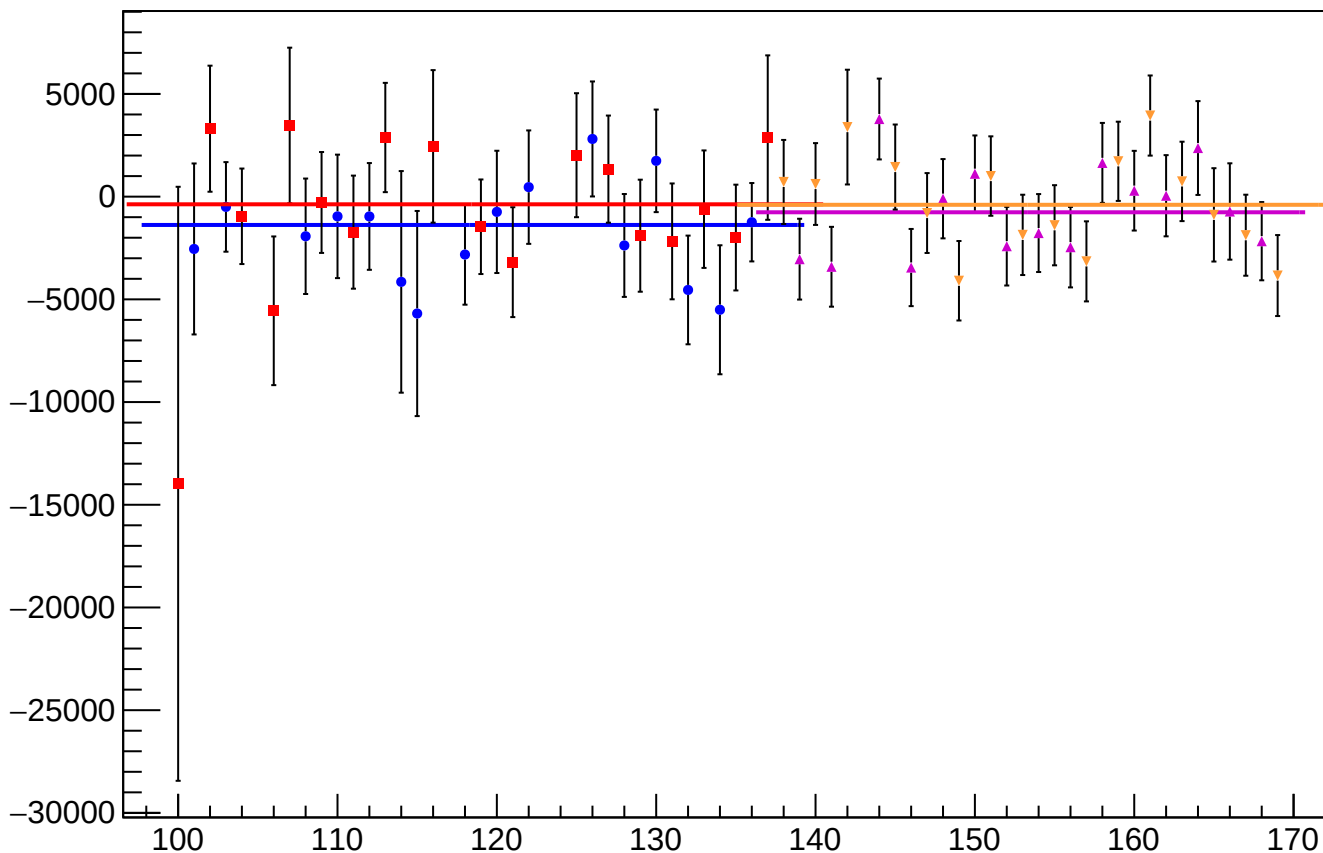
Right: 1006.404+/-0.208 χ^2/NDF : 5123967.6/33

In: 821.336+/-0.137 χ^2/NDF : 3114091.5/30

Out: 785.084+/-0.132 χ^2/NDF : 3747825.7/33

All: 802.505+/-0.095 χ^2/NDF : 6898285.9/64

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1378.133+/-689.030 χ^2/NDF : 9.3/15

Left Out: -396.948+/-503.323 χ^2/NDF : 20.4/15

Right Out: -372.534+/-684.408 χ^2/NDF : 12.0/17

Left In: -761.023+/-508.503 χ^2/NDF : 17.9/14

Left: -577.121+/-357.720 χ^2/NDF : 38.6/30

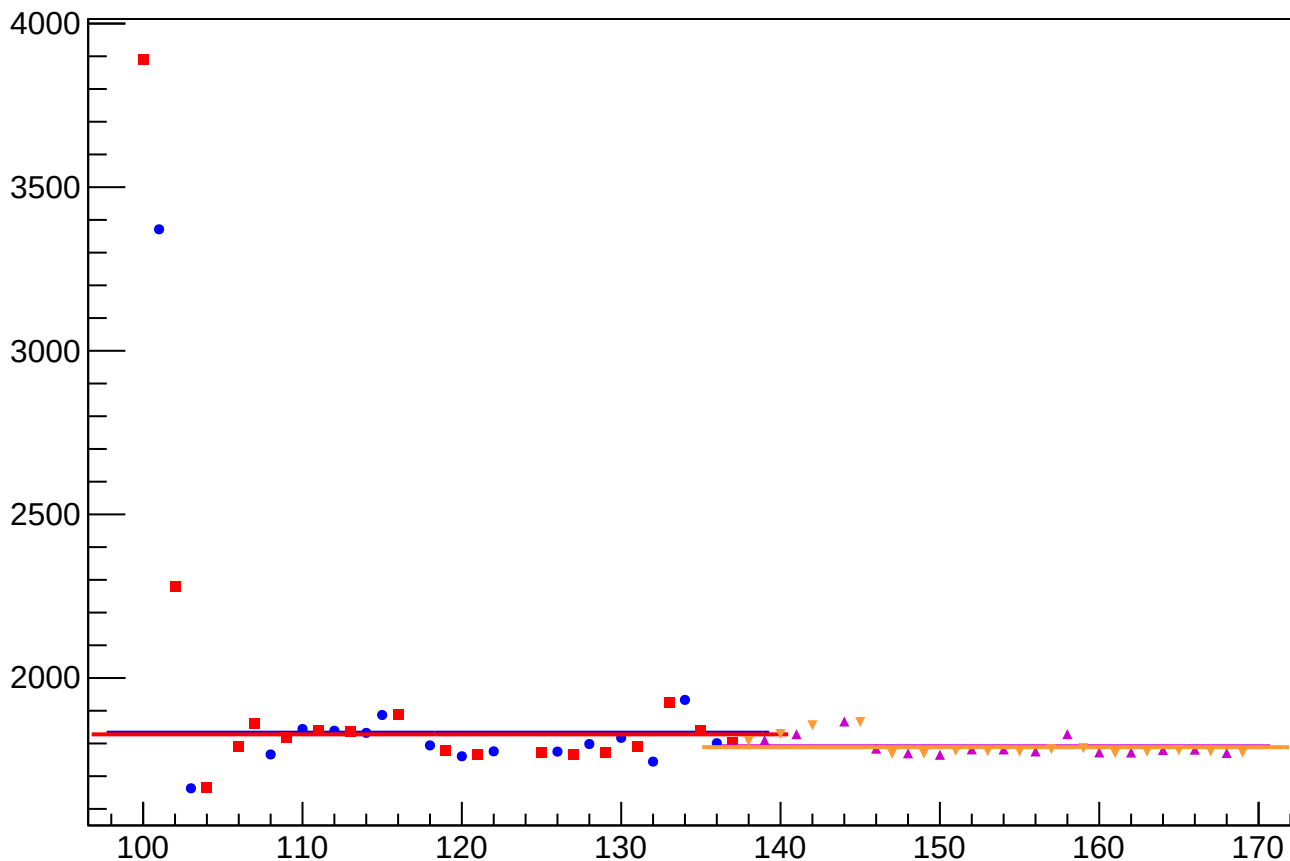
Right: -871.950+/-485.576 χ^2/NDF : 22.3/33

In: -978.617+/-409.147 χ^2/NDF : 27.7/30

Out: -388.378+/-405.479 χ^2/NDF : 32.4/33

All: -680.840+/-288.005 χ^2/NDF : 61.1/64

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1832.947+/-0.487 χ^2/NDF : 295441.2/15

Left Out: 1788.644+/-0.356 χ^2/NDF : 6106.2/15

Right Out: 1827.785+/-0.484 χ^2/NDF : 102270.3/17

Left In: 1791.339+/-0.360 χ^2/NDF : 6189.4/14

Left: 1789.978+/-0.253 χ^2/NDF : 12324.0/30

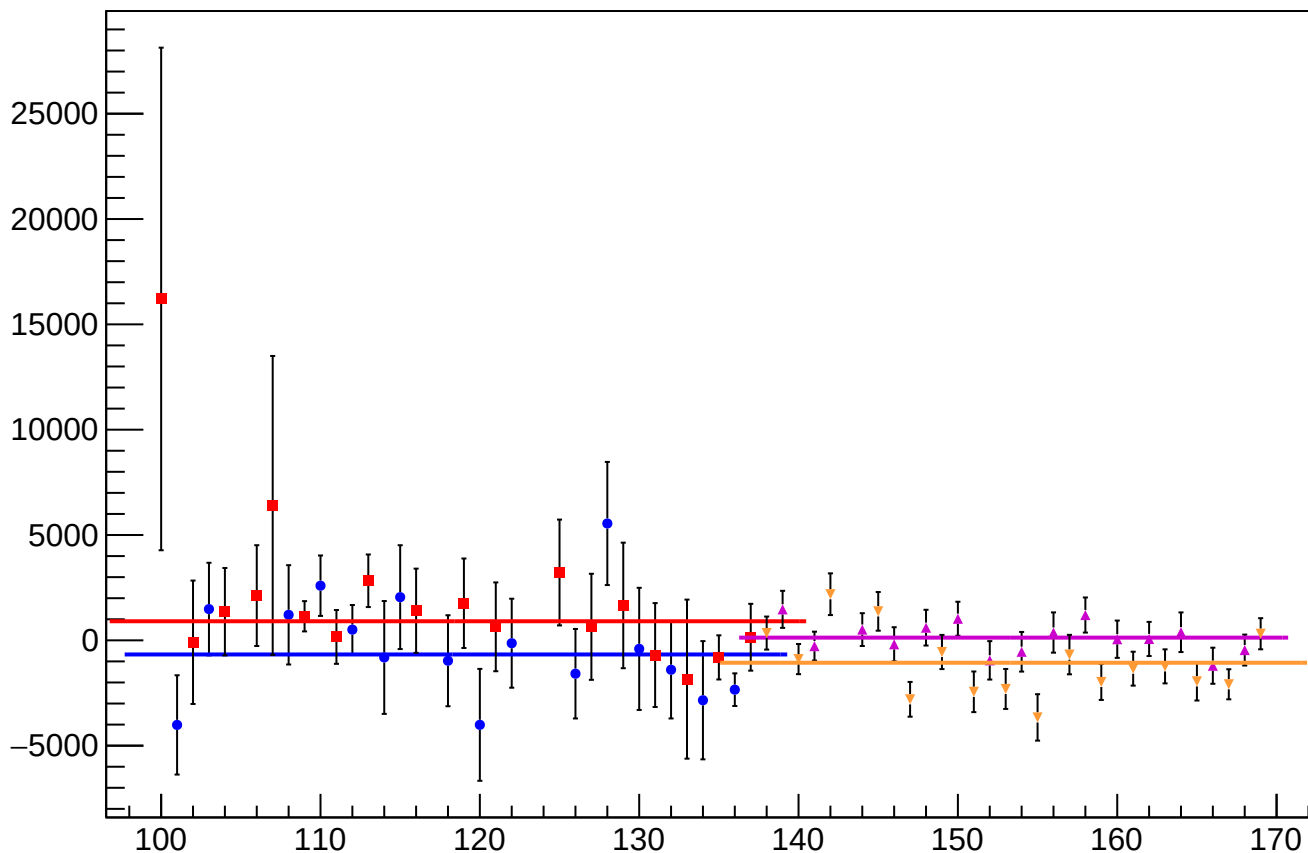
Right: 1830.348+/-0.343 χ^2/NDF : 397768.0/33

In: 1806.010+/-0.289 χ^2/NDF : 306352.0/30

Out: 1802.382+/-0.287 χ^2/NDF : 112621.9/33

All: 1804.180+/-0.204 χ^2/NDF : 419053.3/64

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -670.539+/-442.505 χ^2/NDF : 22.8/15

Left Out: -1063.562+/-211.387 χ^2/NDF : 43.2/15

Right Out: 905.874+/-394.814 χ^2/NDF : 10.5/17

Left In: 128.705+/-215.509 χ^2/NDF : 11.4/14

Left: -478.939+/-150.909 χ^2/NDF : 70.2/30

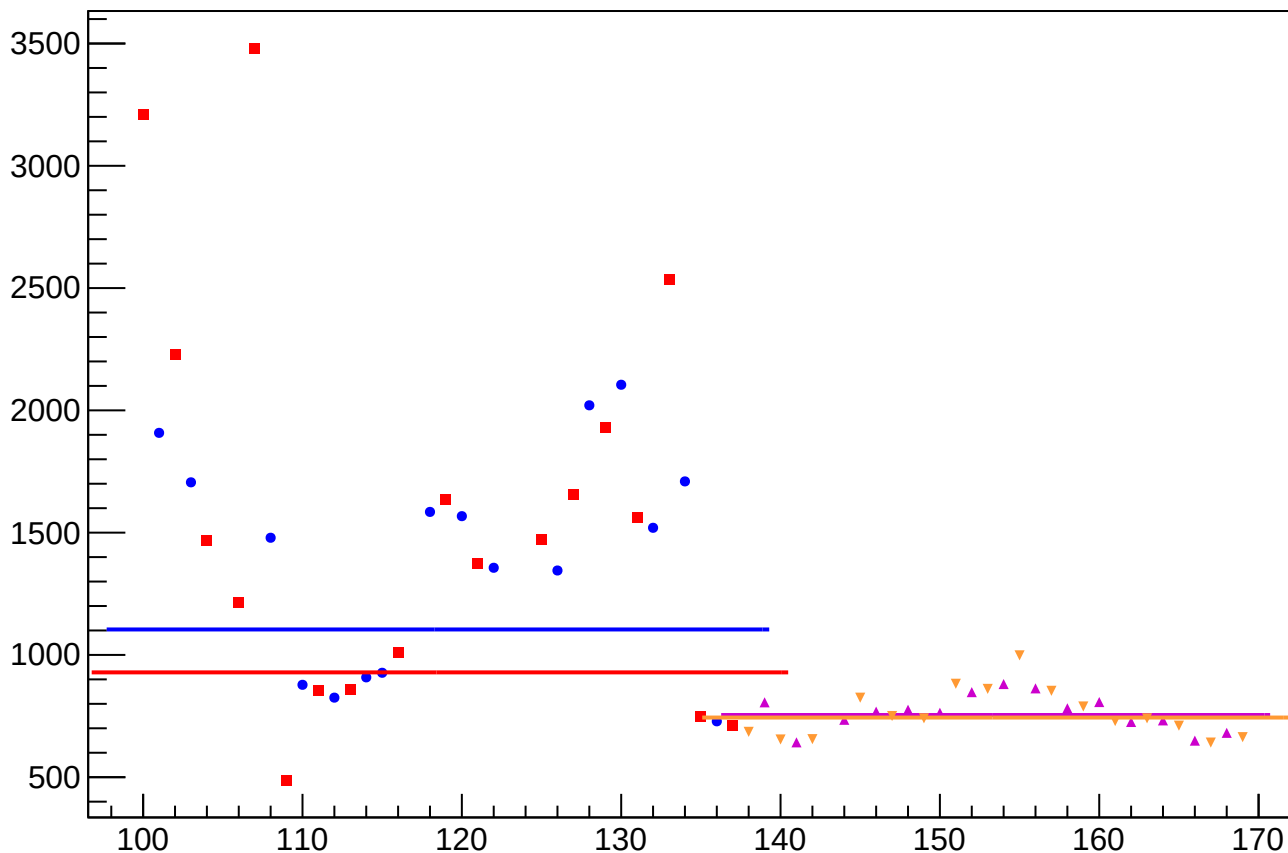
Right: 207.164+/-294.599 χ^2/NDF : 40.3/33

In: -24.523+/-193.752 χ^2/NDF : 36.8/30

Out: -624.781+/-186.357 χ^2/NDF : 73.1/33

All: -336.326+/-134.313 χ^2/NDF : 114.9/64

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1104.103+/-0.313 χ^2/NDF : 1894482.2/15

Left Out: 743.935+/-0.149 χ^2/NDF : 353284.9/15

Right Out: 928.629+/-0.279 χ^2/NDF : 3054381.5/17

Left In: 754.267+/-0.152 χ^2/NDF : 209226.0/14

Left: 749.001+/-0.107 χ^2/NDF : 564853.5/30

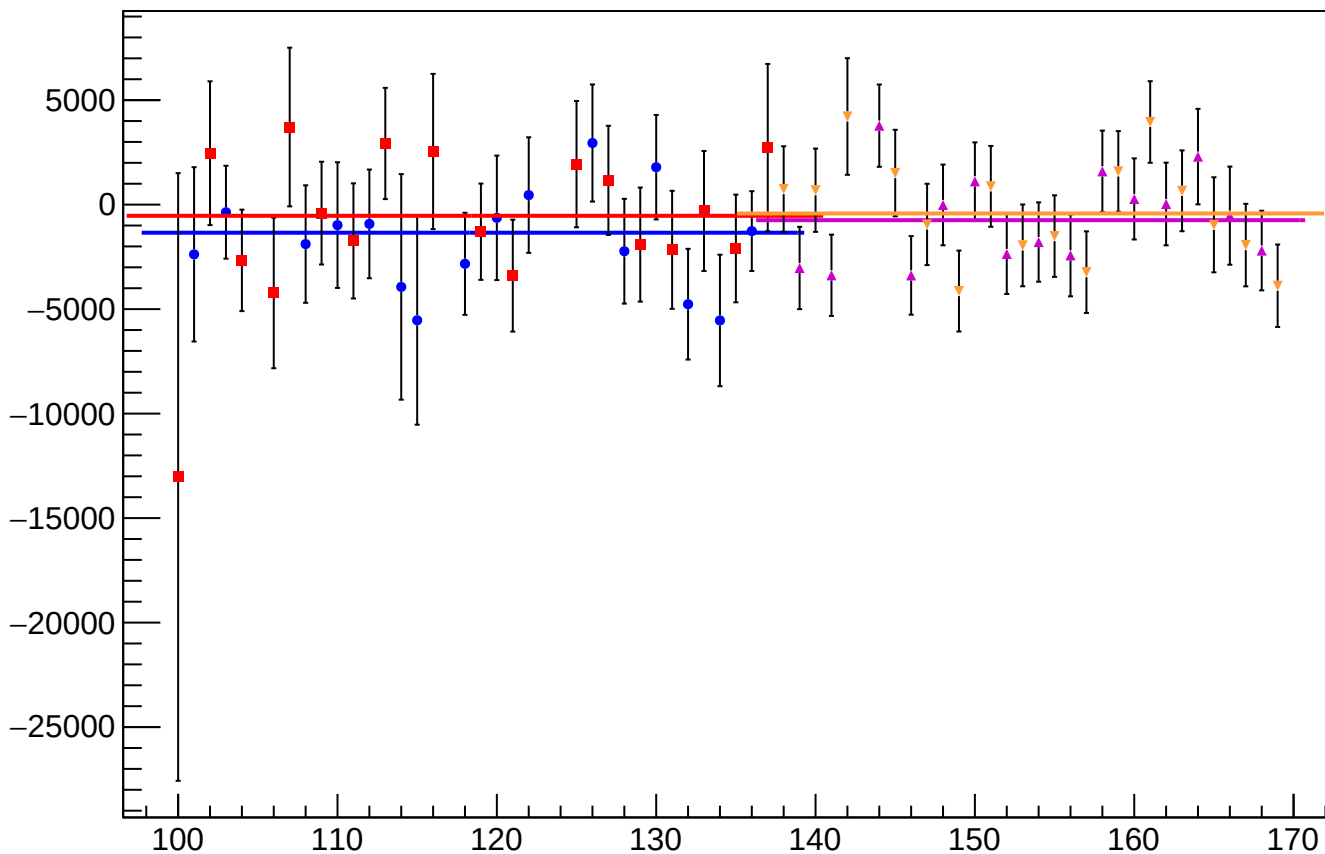
Right: 1006.404+/-0.208 χ^2/NDF : 5123967.6/33

In: 821.336+/-0.137 χ^2/NDF : 3114091.5/30

Out: 785.084+/-0.132 χ^2/NDF : 3747825.7/33

All: 802.505+/-0.095 χ^2/NDF : 6898285.9/64

dit_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1343.952 ± 690.940 χ^2/NDF : 9.6/15

Left Out: -423.219 ± 503.643 χ^2/NDF : 21.6/15

Right Out: -534.194 ± 690.970 χ^2/NDF : 11.1/17

Left In: -744.448 ± 508.856 χ^2/NDF : 17.6/14

Left: -582.179 ± 357.958 χ^2/NDF : 39.4/30

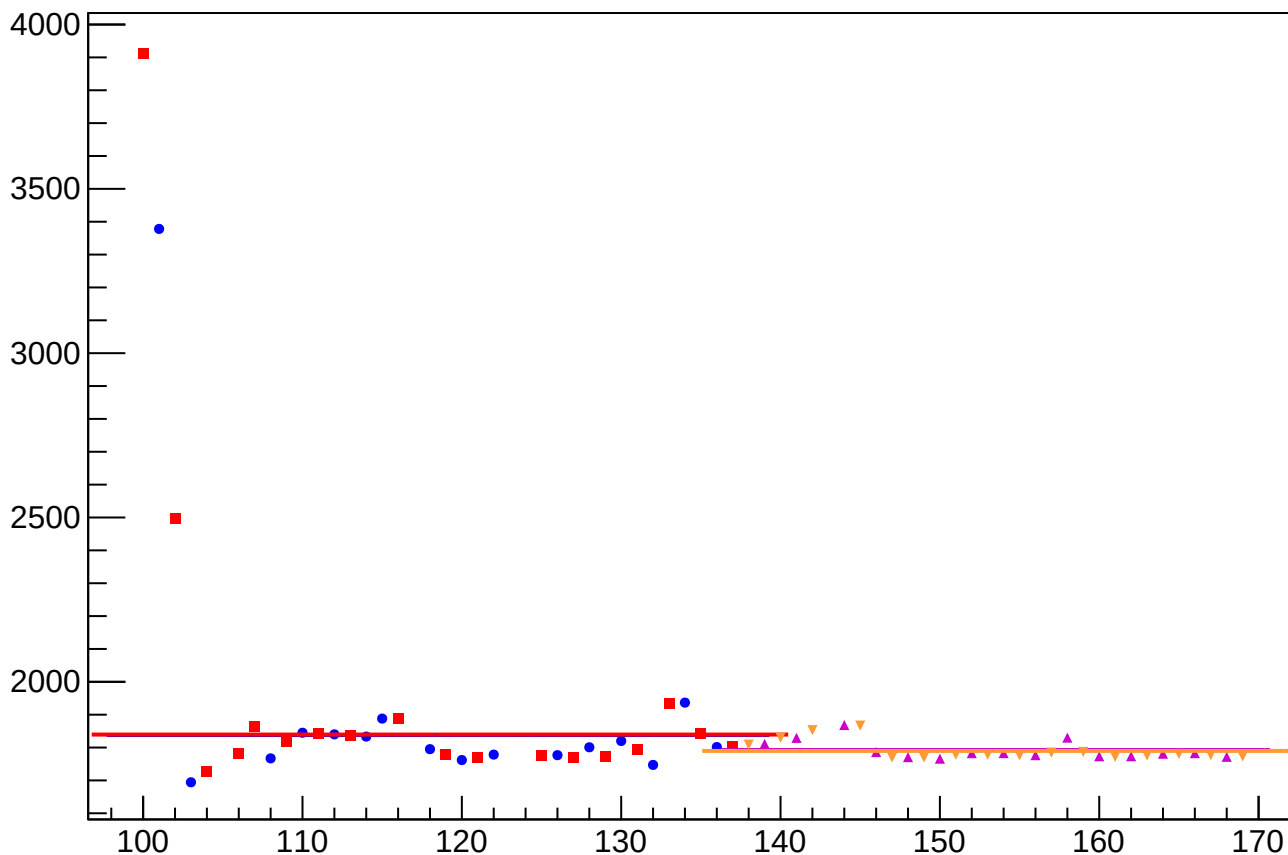
Right: -939.091 ± 488.579 χ^2/NDF : 21.4/33

In: -955.266 ± 409.730 χ^2/NDF : 27.7/30

Out: -461.722 ± 407.001 χ^2/NDF : 32.7/33

All: -706.844 ± 288.753 χ^2/NDF : 61.1/64

dit_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1838.159 ± 0.489 χ^2/NDF : 291984.0/15

Left Out: 1789.775 ± 0.356 χ^2/NDF : 6013.3/15

Right Out: 1839.517 ± 0.489 χ^2/NDF : 128253.5/17

Left In: 1792.580 ± 0.360 χ^2/NDF : 6221.8/14

Left: 1791.163 ± 0.253 χ^2/NDF : 12265.8/30

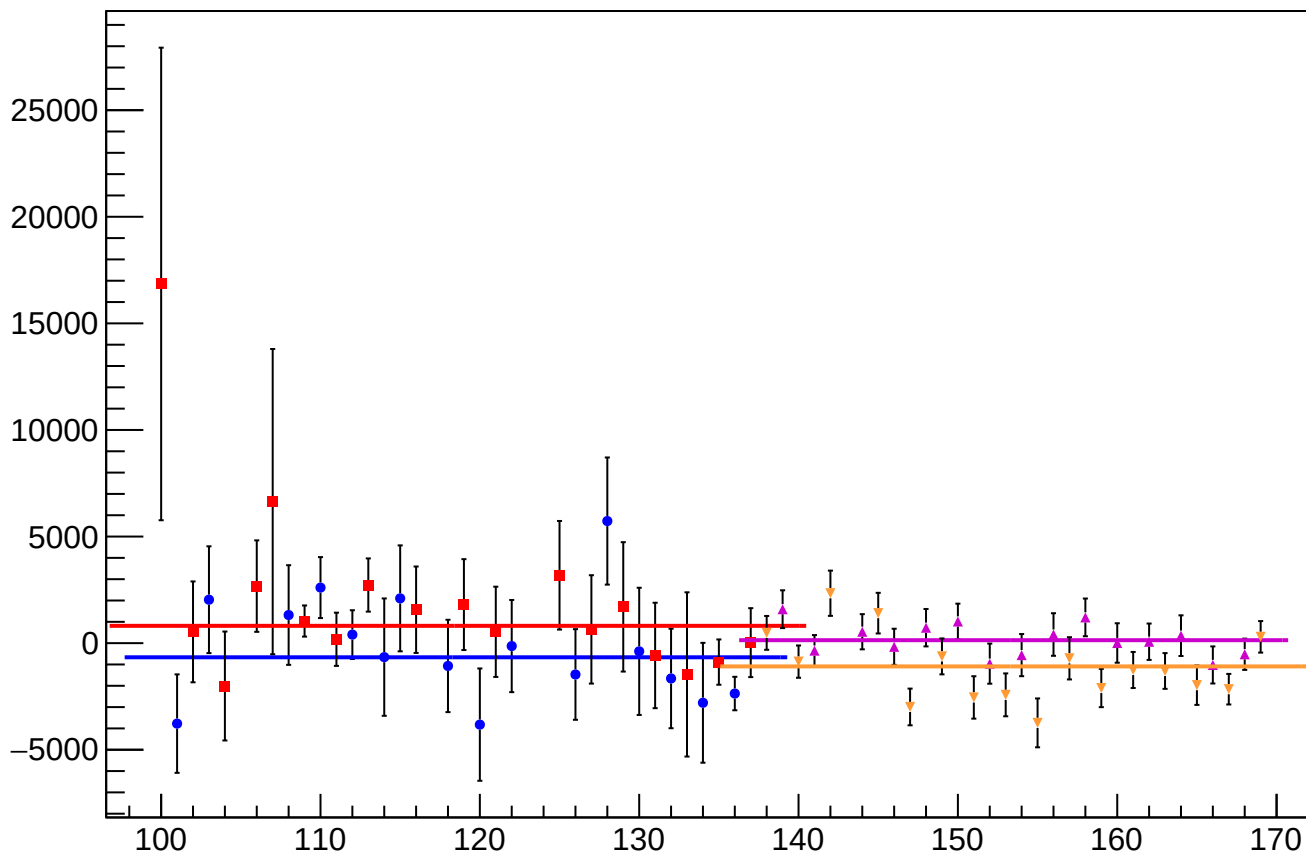
Right: 1838.838 ± 0.345 χ^2/NDF : 420241.4/33

In: 1808.608 ± 0.290 χ^2/NDF : 303848.7/30

Out: 1807.033 ± 0.288 χ^2/NDF : 141035.5/33

All: 1807.815 ± 0.204 χ^2/NDF : 444899.1/64

asym_us_dd_atlr_dd_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -663.489 ± 445.903 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -1091.190 ± 218.953 $\chi^2/\text{NDF}: 43.9/15$

Right Out: 812.187 ± 397.187 $\chi^2/\text{NDF}: 12.2/17$

Left In: 138.448 ± 223.535 $\chi^2/\text{NDF}: 11.1/14$

Left: -489.104 ± 156.418 $\chi^2/\text{NDF}: 70.5/30$

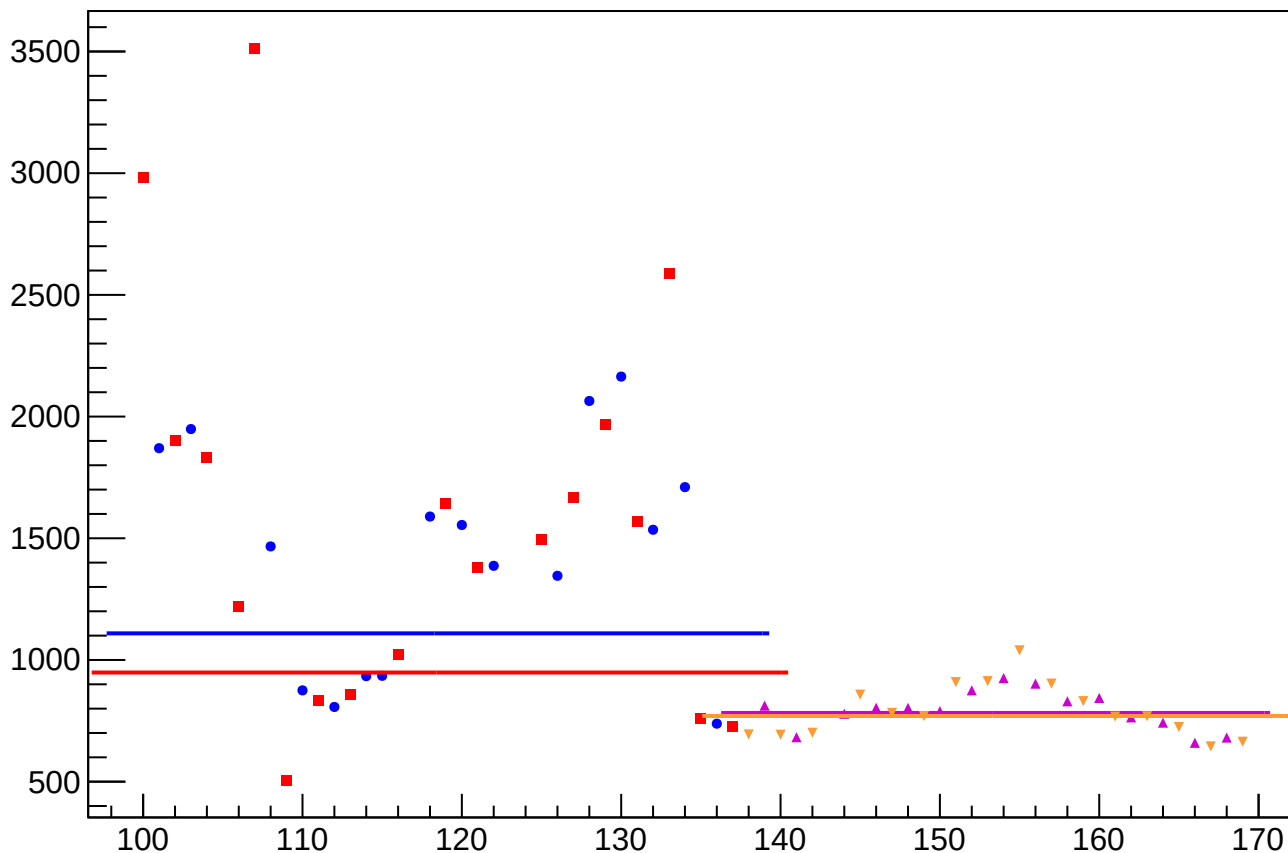
Right: 159.335 ± 296.587 $\chi^2/\text{NDF}: 41.1/33$

In: -22.611 ± 199.831 $\chi^2/\text{NDF}: 36.5/30$

Out: -647.586 ± 191.748 $\chi^2/\text{NDF}: 73.8/33$

All: -347.994 ± 138.356 $\chi^2/\text{NDF}: 115.4/64$

asym_us_dd_atlr_dd_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1109.362 $\pm$ 0.315 χ^2/NDF : 1973363.9/15

Left Out: 769.893 $\pm$ 0.155 χ^2/NDF : 407009.2/15

Right Out: 948.438 $\pm$ 0.281 χ^2/NDF : 3053670.4/17

Left In: 782.265 $\pm$ 0.158 χ^2/NDF : 229972.4/14

Left: 775.951 $\pm$ 0.111 χ^2/NDF : 640108.1/30

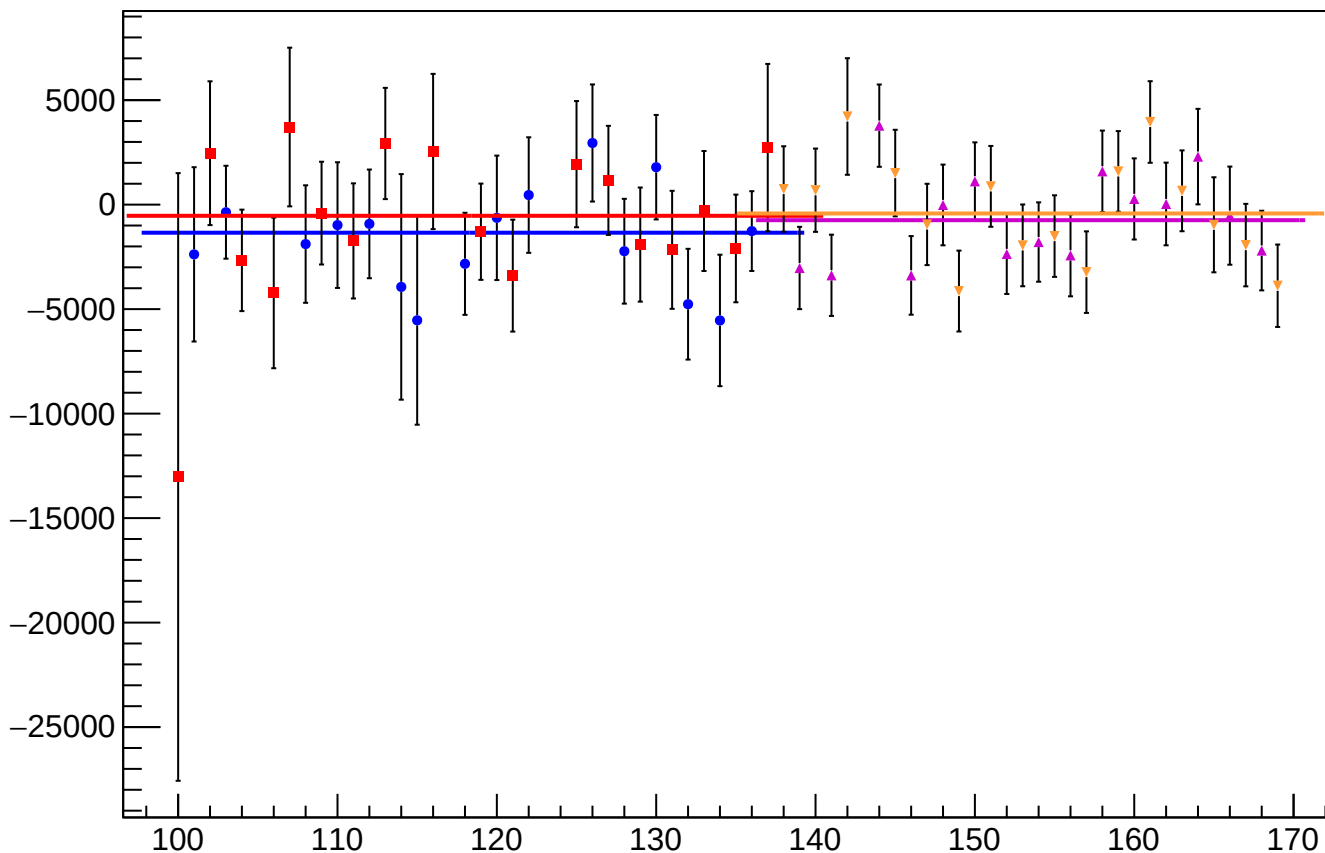
Right: 1019.632 $\pm$ 0.210 χ^2/NDF : 5172280.0/33

In: 847.958 $\pm$ 0.141 χ^2/NDF : 3063411.4/30

Out: 811.505 $\pm$ 0.136 χ^2/NDF : 3770632.0/33

All: 828.980 $\pm$ 0.098 χ^2/NDF : 6868693.0/64

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -1343.955 $\pm$ 690.940 χ^2 /NDF: 9.6/15

Left Out: -423.218 $\pm$ 503.643 χ^2 /NDF:21.6/15

Right Out: -534.199 $\pm$ 690.970 χ^2 /NDF: 11.1/17

Left In: -744.447 $\pm$ 508.856 χ^2 /NDF:17.6/14

Left: -582.179 $\pm$ 357.958 χ^2 /NDF: 39.4/30

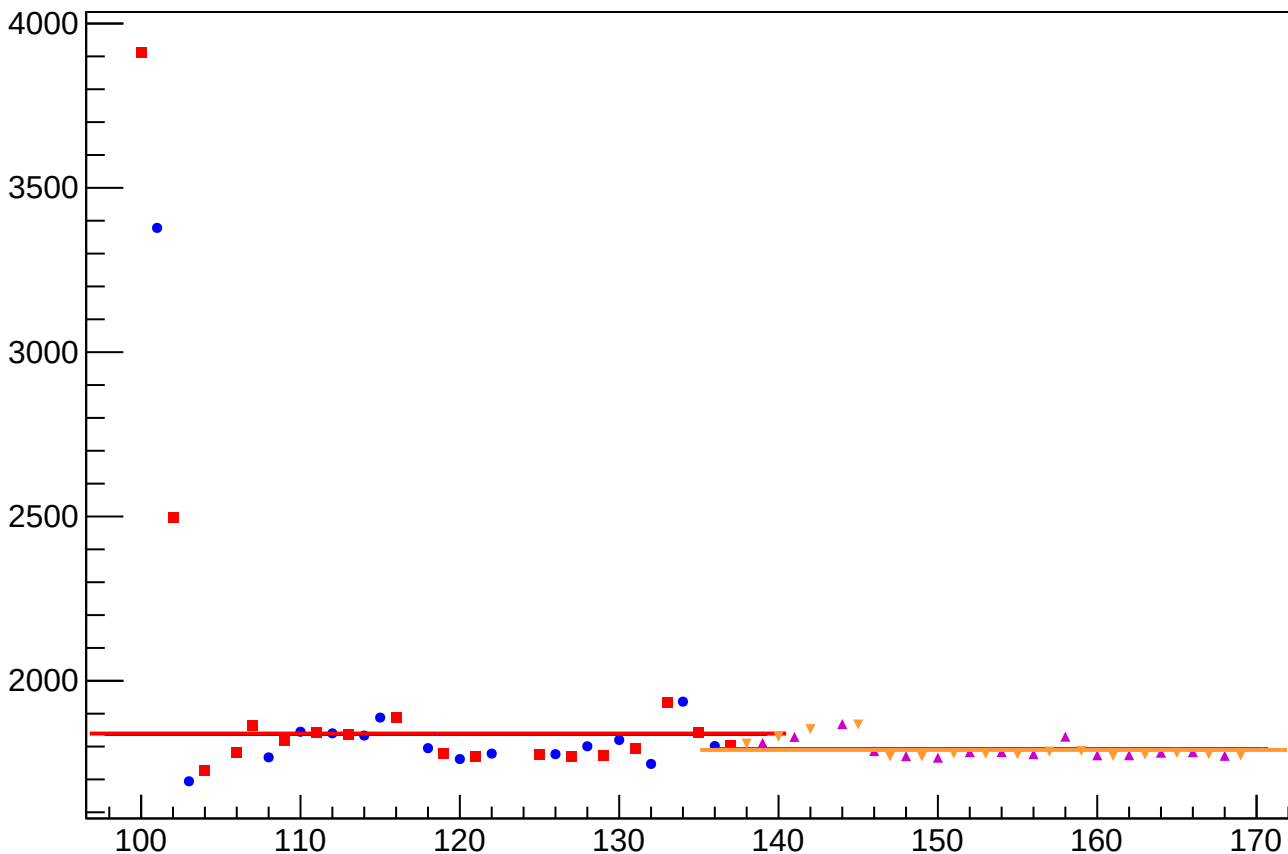
Right: -939.094 $\pm$ 488.579 χ^2 /NDF: 21.4/33

In: -955.267 $\pm$ 409.730 χ^2 /NDF:27.7/30

Out: -461.723 $\pm$ 407.001 χ^2 /NDF:32.7/33

All: -706.845 $\pm$ 288.753 χ^2 /NDF: 61.1/64

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 1838.159+/-0.489 χ^2/NDF : 291984.0/15

Left Out: 1789.775+/-0.356 χ^2/NDF : 6013.3/15

Right Out: 1839.517+/-0.489 χ^2/NDF : 128253.6/17

Left In: 1792.580+/-0.360 χ^2/NDF : 6221.8/14

Left: 1791.163+/-0.253 χ^2/NDF : 12265.8/30

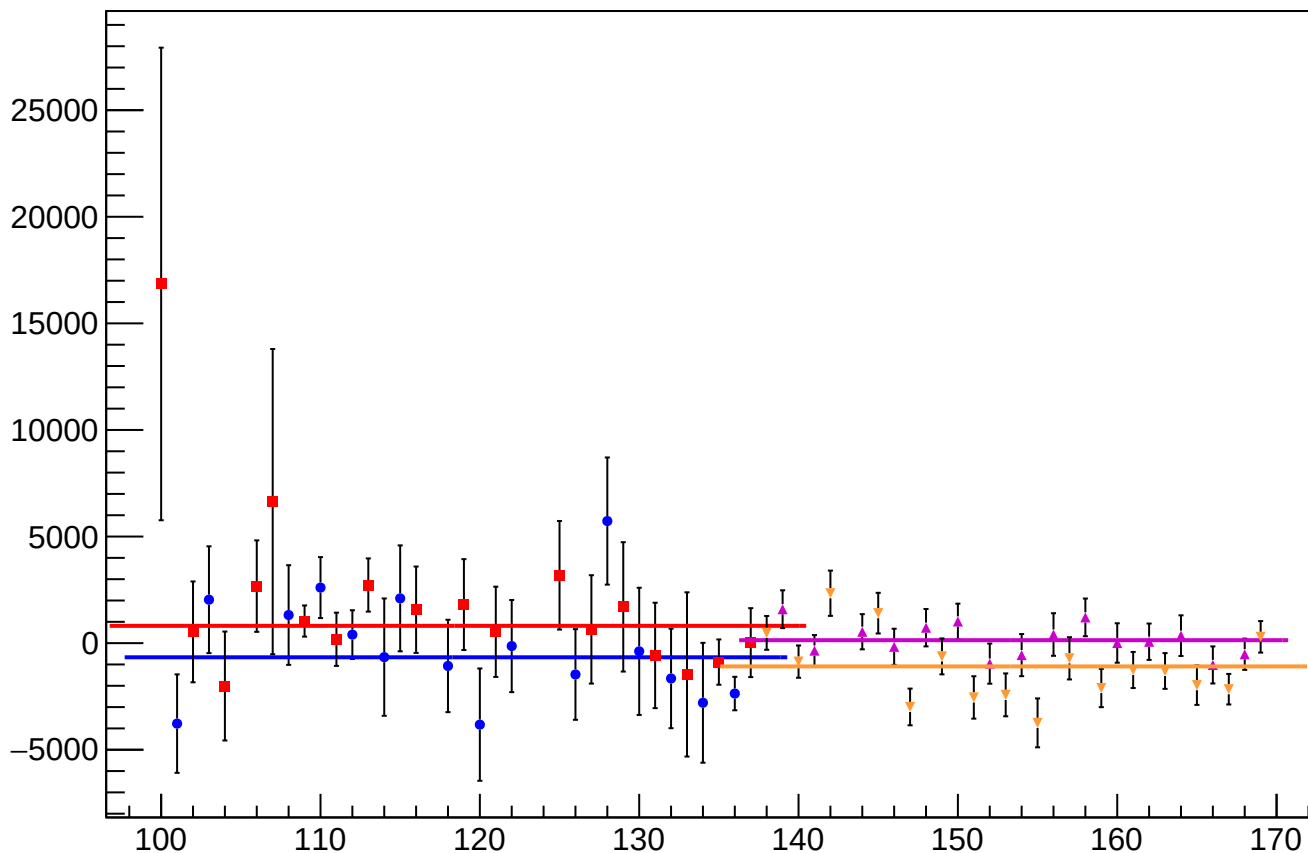
Right: 1838.838+/-0.345 χ^2/NDF : 420241.4/33

In: 1808.608+/-0.290 χ^2/NDF : 303848.7/30

Out: 1807.033+/-0.288 χ^2/NDF : 141035.6/33

All: 1807.815+/-0.204 χ^2/NDF : 444899.1/64

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -663.476 ± 445.904 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -1091.196 ± 218.953 $\chi^2/\text{NDF}: 43.9/15$

Right Out: 812.194 ± 397.187 $\chi^2/\text{NDF}: 12.2/17$

Left In: 138.445 ± 223.535 $\chi^2/\text{NDF}: 11.1/14$

Left: -489.108 ± 156.418 $\chi^2/\text{NDF}: 70.5/30$

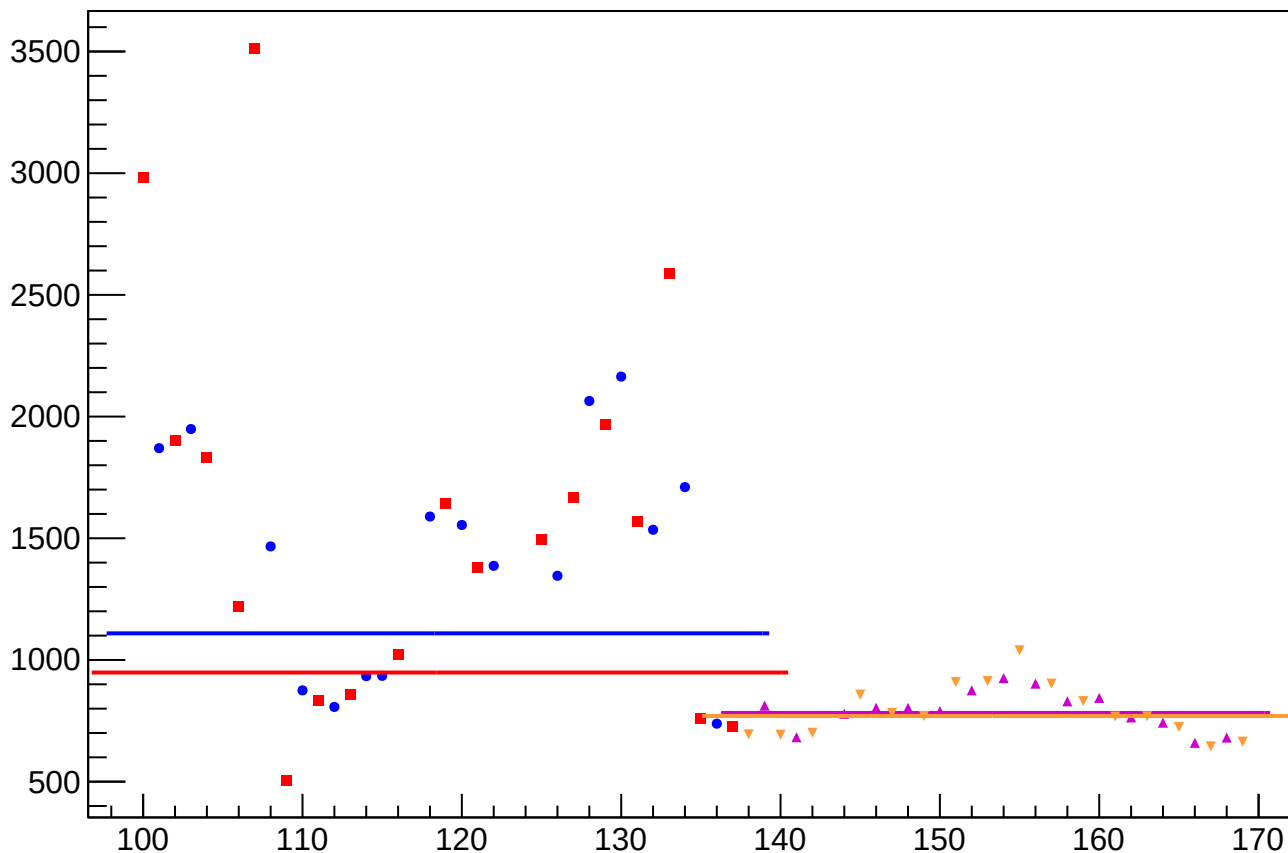
Right: 159.344 ± 296.588 $\chi^2/\text{NDF}: 41.1/33$

In: -22.611 ± 199.831 $\chi^2/\text{NDF}: 36.5/30$

Out: -647.589 ± 191.748 $\chi^2/\text{NDF}: 73.8/33$

All: -347.995 ± 138.356 $\chi^2/\text{NDF}: 115.4/64$

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1109.365+/-0.315 χ^2/NDF : 1973324.5/15

Left Out: 769.894+/-0.155 χ^2/NDF : 407001.1/15

Right Out: 948.441+/-0.281 χ^2/NDF : 3053644.5/17

Left In: 782.265+/-0.158 χ^2/NDF : 229978.4/14

Left: 775.952+/-0.111 χ^2/NDF : 640105.5/30

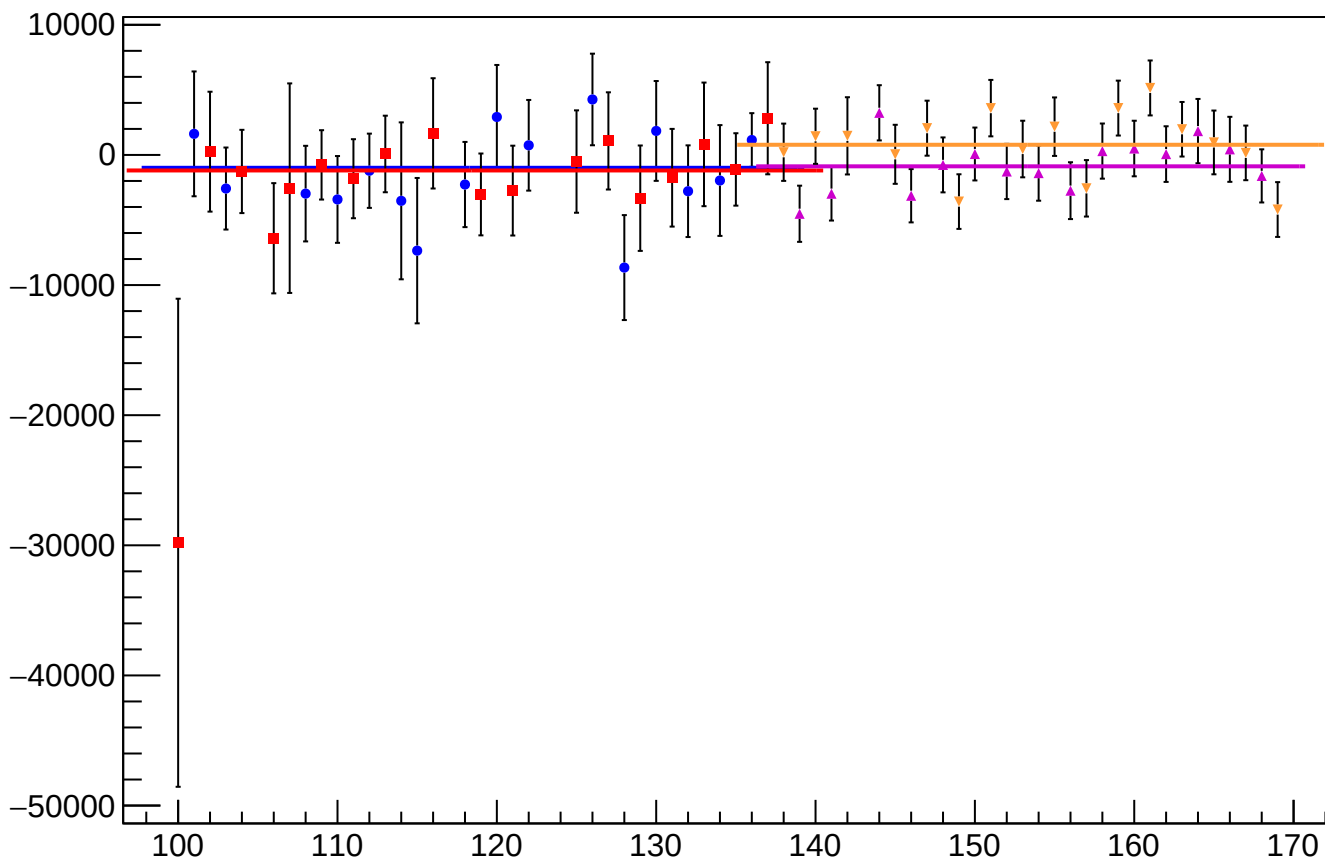
Right: 1019.635+/-0.210 χ^2/NDF : 5172215.4/33

In: 847.959+/-0.141 χ^2/NDF : 3063391.4/30

Out: 811.507+/-0.136 χ^2/NDF : 3770602.1/33

All: 828.980+/-0.098 χ^2/NDF : 6868641.7/64

asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected



Right In: -987.532+/-873.840 χ^2 /NDF: 12.0/15

Left Out: 781.827+/-548.976 χ^2 /NDF:21.6/15

Right Out: -1192.173+/-870.432 χ^2 /NDF: 7.0/17

Left In: -874.784+/-554.302 χ^2 /NDF:12.4/14

Left: -38.482+/-390.054 χ^2 /NDF: 38.5/30

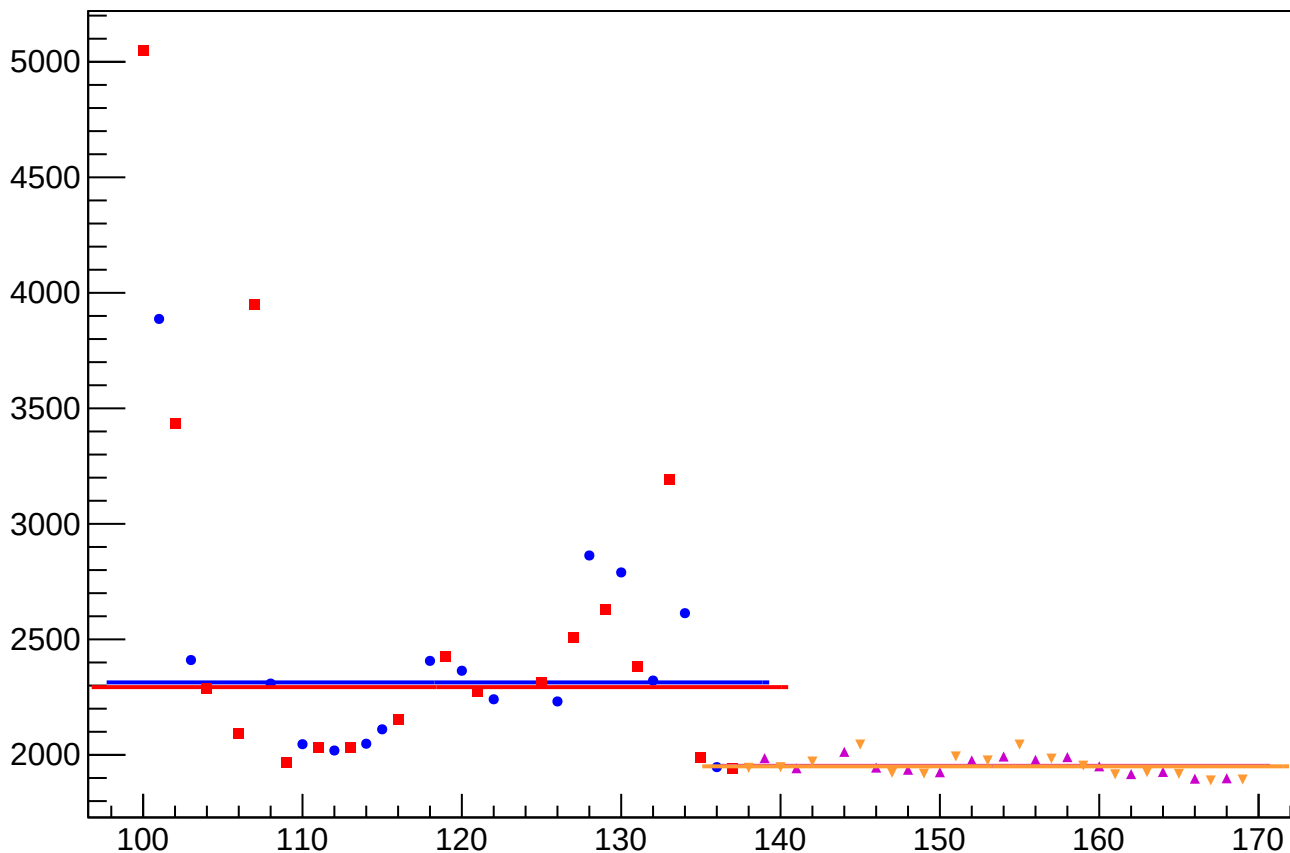
Right: -1090.252+/-616.690 χ^2 /NDF: 19.0/33

In: -907.134+/-468.074 χ^2 /NDF:24.4/30

Out: 220.072+/-464.339 χ^2 /NDF:32.2/33

All: -339.016+/-329.650 χ^2 /NDF: 59.5/64

asym_us_dd_atlr_dd_avg_rms vs Slug, Sign Corrected



Right In: 2313.740+/-0.618 χ^2/NDF : 402756.6/15

Left Out: 1950.490+/-0.388 χ^2/NDF : 13761.3/15

Right Out: 2293.273+/-0.615 χ^2/NDF : 453202.3/17

Left In: 1952.500+/-0.392 χ^2/NDF : 7738.2/14

Left: 1951.485+/-0.276 χ^2/NDF : 21512.8/30

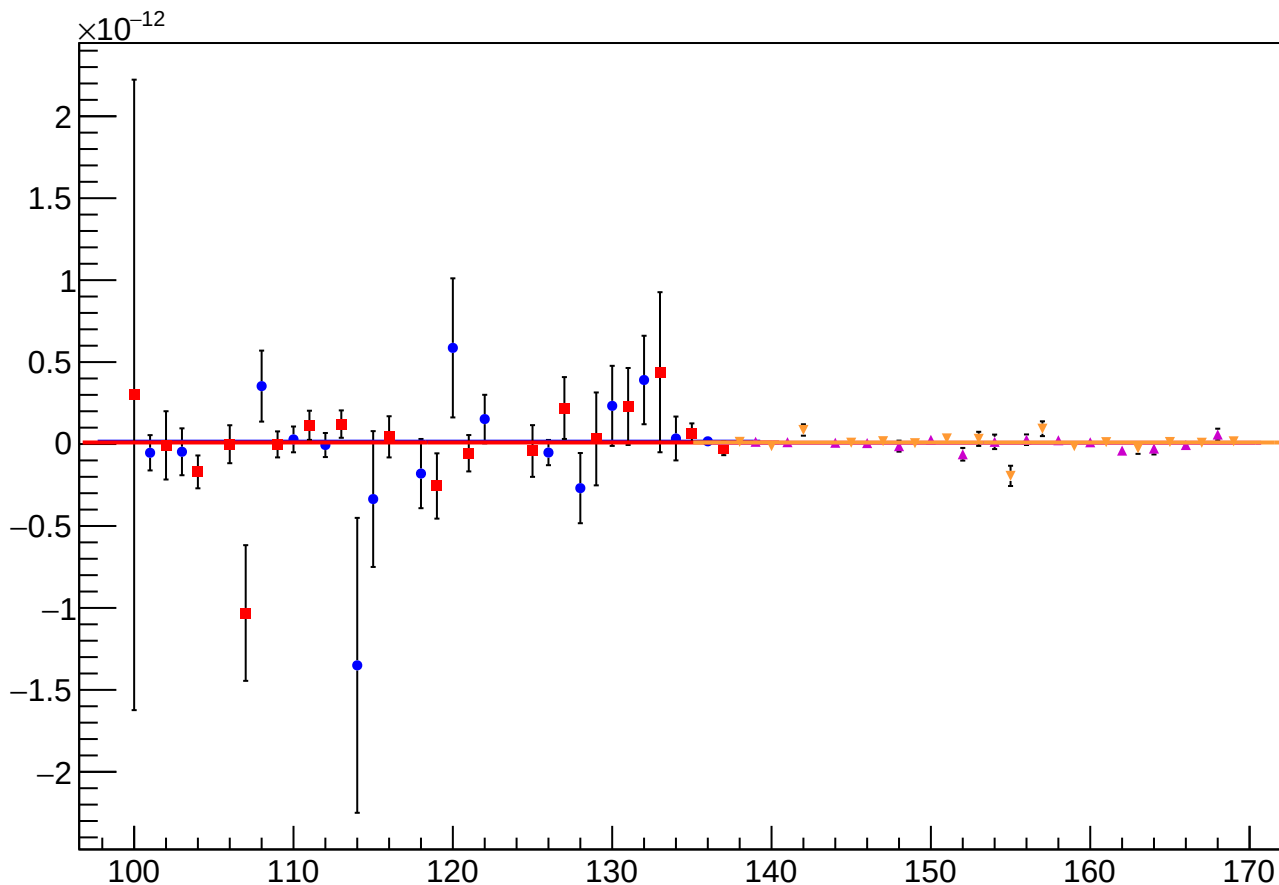
Right: 2303.467+/-0.436 χ^2/NDF : 856509.6/33

In: 2056.149+/-0.331 χ^2/NDF : 654218.6/30

Out: 2048.039+/-0.328 χ^2/NDF : 688869.5/33

All: 2052.061+/-0.233 χ^2/NDF : 1343390.6/64

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 24.3/15

Right Out: 0.000+/-0.000 χ^2/NDF : 19.5/17

Left In: 0.000+/-0.000 χ^2/NDF : 11.1/14

Left: 0.000+/-0.000 χ^2/NDF : 35.5/30

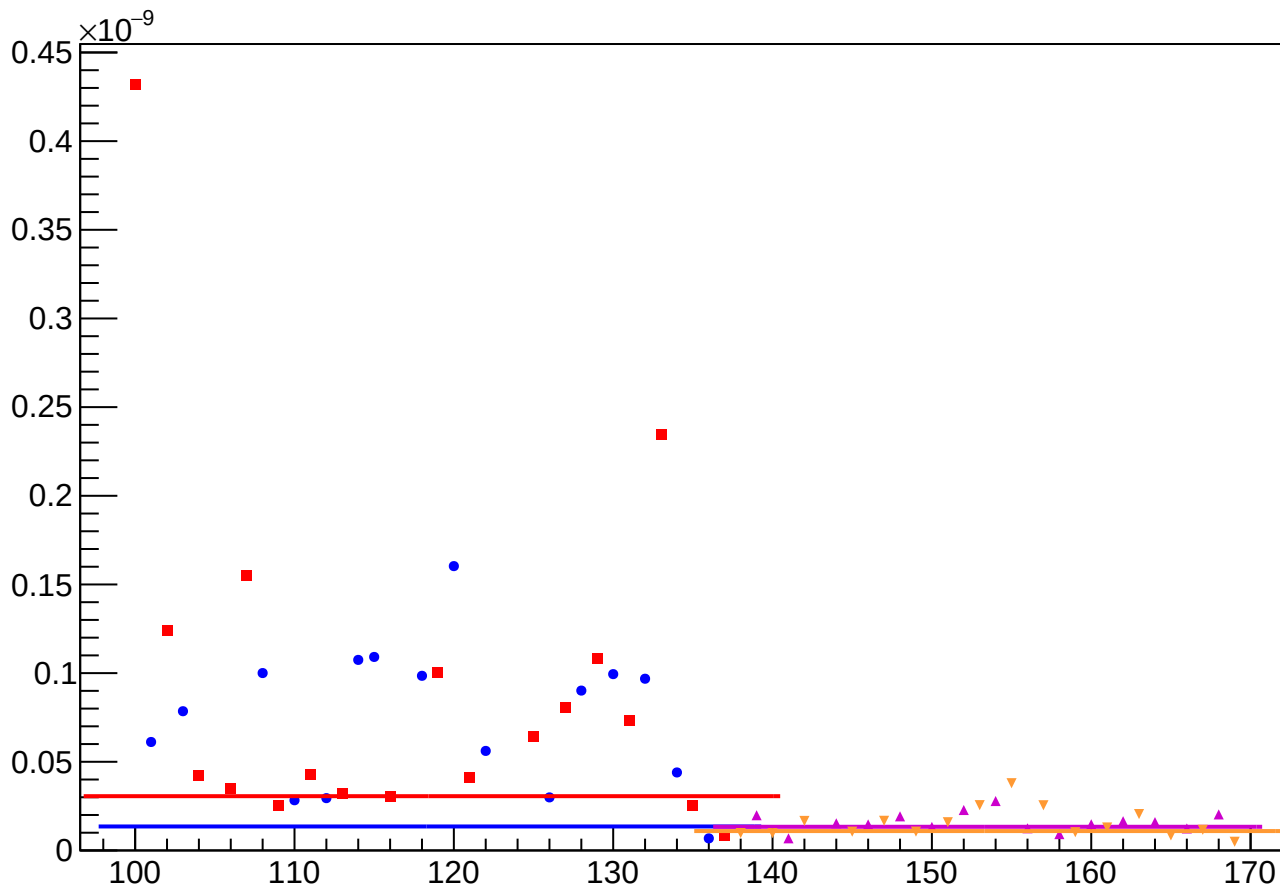
Right: 0.000+/-0.000 χ^2/NDF : 34.5/33

In: 0.000+/-0.000 χ^2/NDF : 26.3/30

Out: 0.000+/-0.000 χ^2/NDF : 43.9/33

All: 0.000+/-0.000 χ^2/NDF : 70.2/64

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3416094.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :1677377.6/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2349183.7/17

Left In: 0.000+/-0.000 χ^2/NDF :1130693.5/14

Left: 0.000+/-0.000 χ^2/NDF : 2957796.7/30

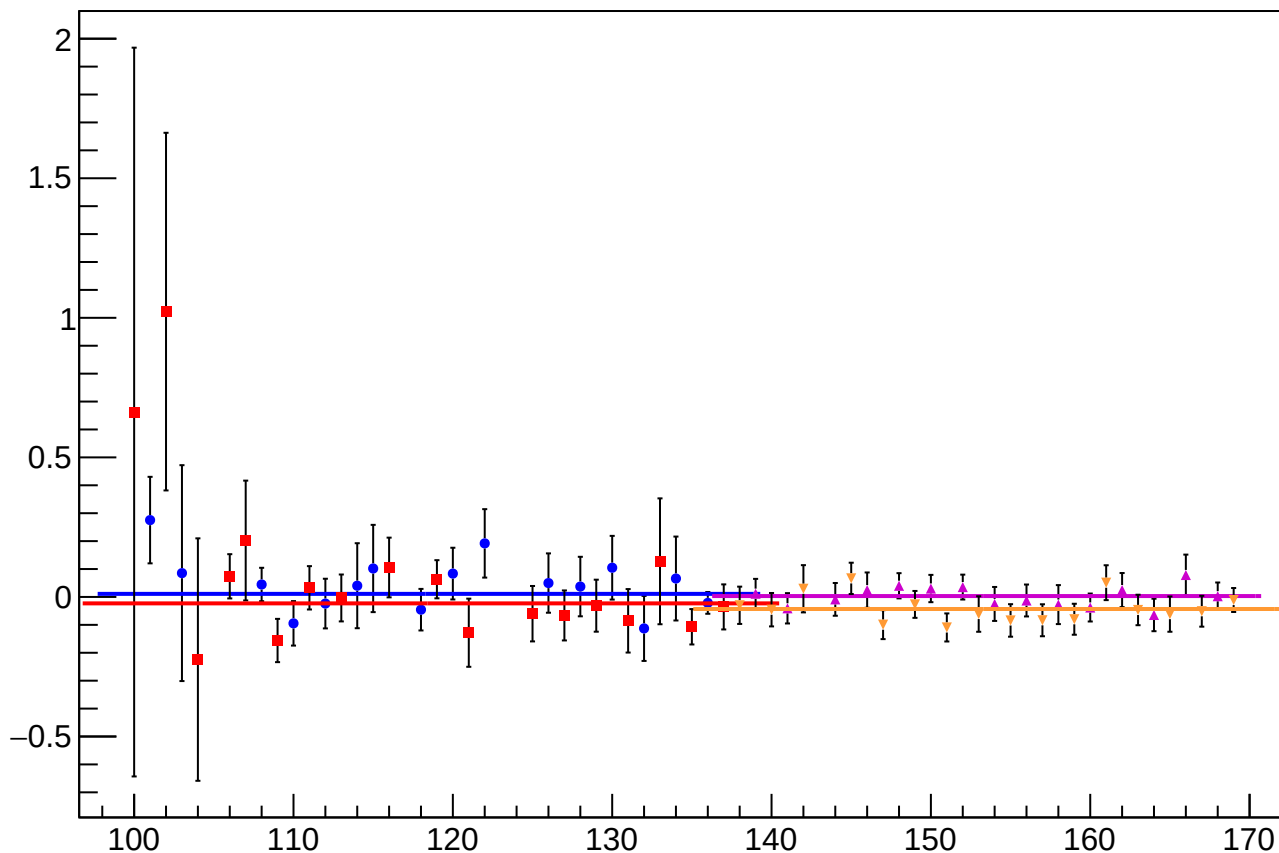
Right: 0.000+/-0.000 χ^2/NDF : 6517274.2/33

In: 0.000+/-0.000 χ^2/NDF :4547042.4/30

Out: 0.000+/-0.000 χ^2/NDF :5288585.2/33

All: 0.000+/-0.000 χ^2/NDF : 9892465.9/64

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 ± 0.022 $\chi^2/\text{NDF}: 11.7/15$

Left Out: -0.043 ± 0.014 $\chi^2/\text{NDF}: 12.1/15$

Right Out: -0.023 ± 0.023 $\chi^2/\text{NDF}: 16.0/17$

Left In: 0.003 ± 0.014 $\chi^2/\text{NDF}: 6.0/14$

Left: -0.020 ± 0.010 $\chi^2/\text{NDF}: 23.5/30$

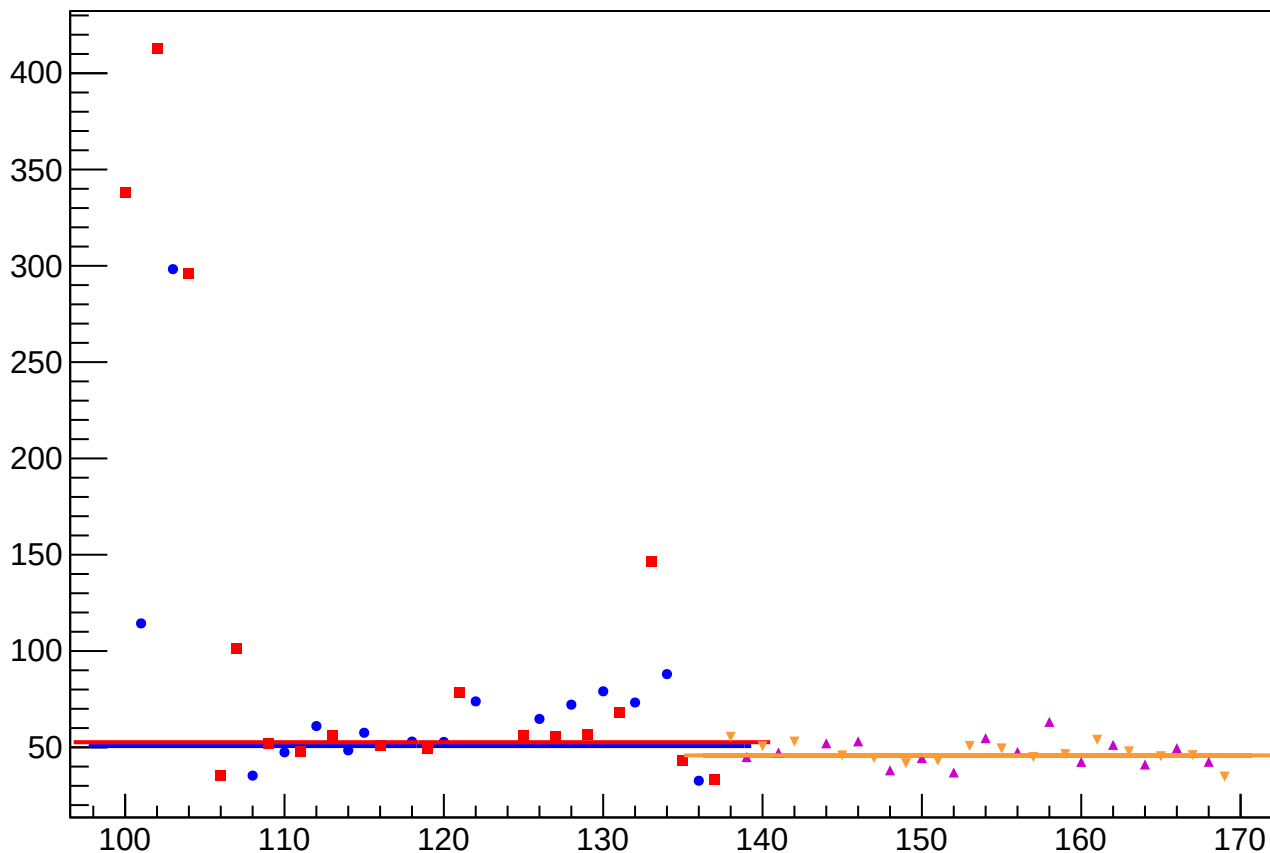
Right: -0.005 ± 0.016 $\chi^2/\text{NDF}: 28.8/33$

In: 0.005 ± 0.012 $\chi^2/\text{NDF}: 17.9/30$

Out: -0.038 ± 0.012 $\chi^2/\text{NDF}: 28.6/33$

All: -0.016 ± 0.008 $\chi^2/\text{NDF}: 53.0/64$

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 50.645 $\pm$ 0.015 χ^2 /NDF: 2266445.6/15

Left Out: 45.825 $\pm$ 0.010 χ^2 /NDF: 279058.2/15

Right Out: 52.666 $\pm$ 0.016 χ^2 /NDF: 2211938.1/17

Left In: 45.741 $\pm$ 0.010 χ^2 /NDF: 413131.5/14

Left: 45.783 $\pm$ 0.007 χ^2 /NDF: 692224.6/30

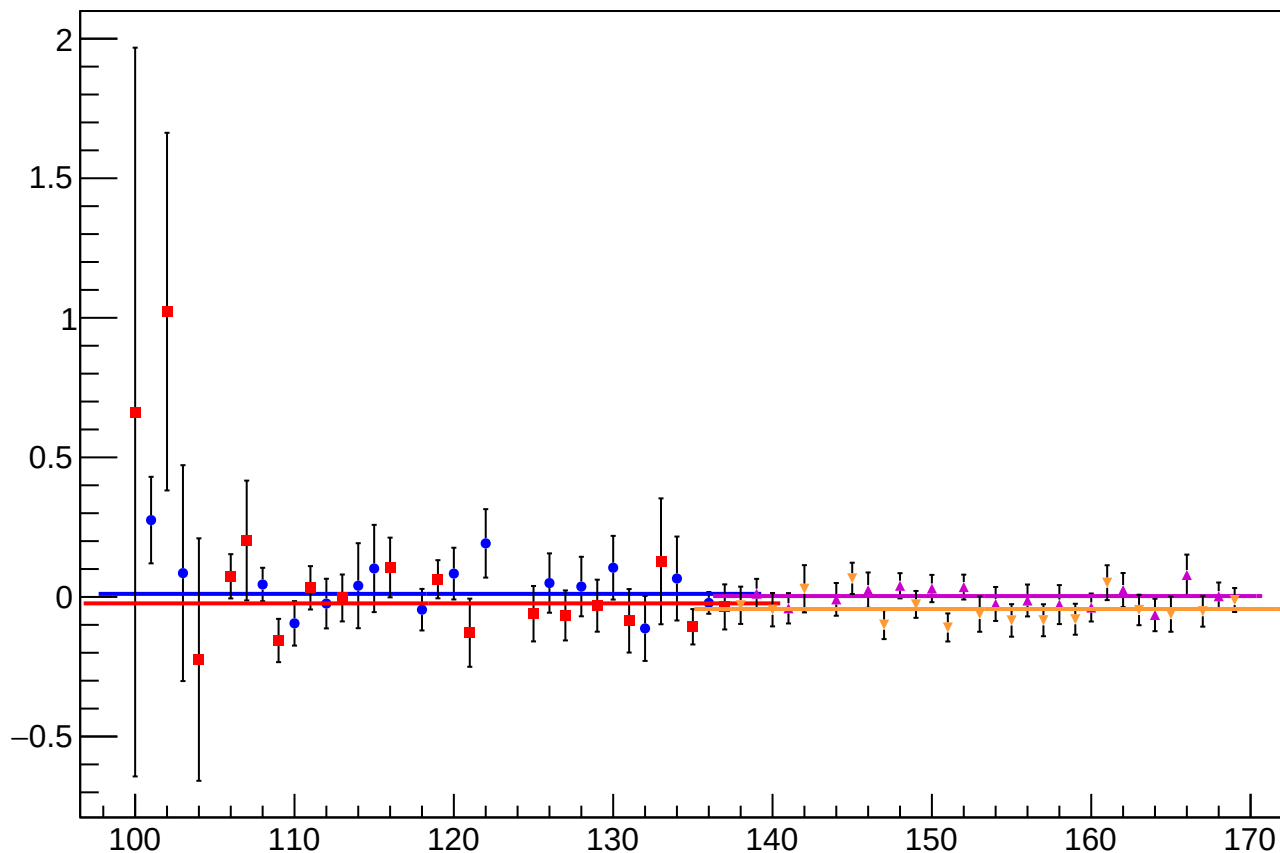
Right: 51.600 $\pm$ 0.011 χ^2 /NDF: 4486449.2/33

In: 47.189 $\pm$ 0.008 χ^2 /NDF: 2750433.7/30

Out: 47.677 $\pm$ 0.009 χ^2 /NDF: 2618794.7/33

All: 47.430 $\pm$ 0.006 χ^2 /NDF: 5370893.8/64

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 ± 0.022 $\chi^2/\text{NDF}: 11.7/15$

Left Out: -0.043 ± 0.014 $\chi^2/\text{NDF}: 12.1/15$

Right Out: -0.023 ± 0.023 $\chi^2/\text{NDF}: 16.0/17$

Left In: 0.003 ± 0.014 $\chi^2/\text{NDF}: 6.0/14$

Left: -0.020 ± 0.010 $\chi^2/\text{NDF}: 23.5/30$

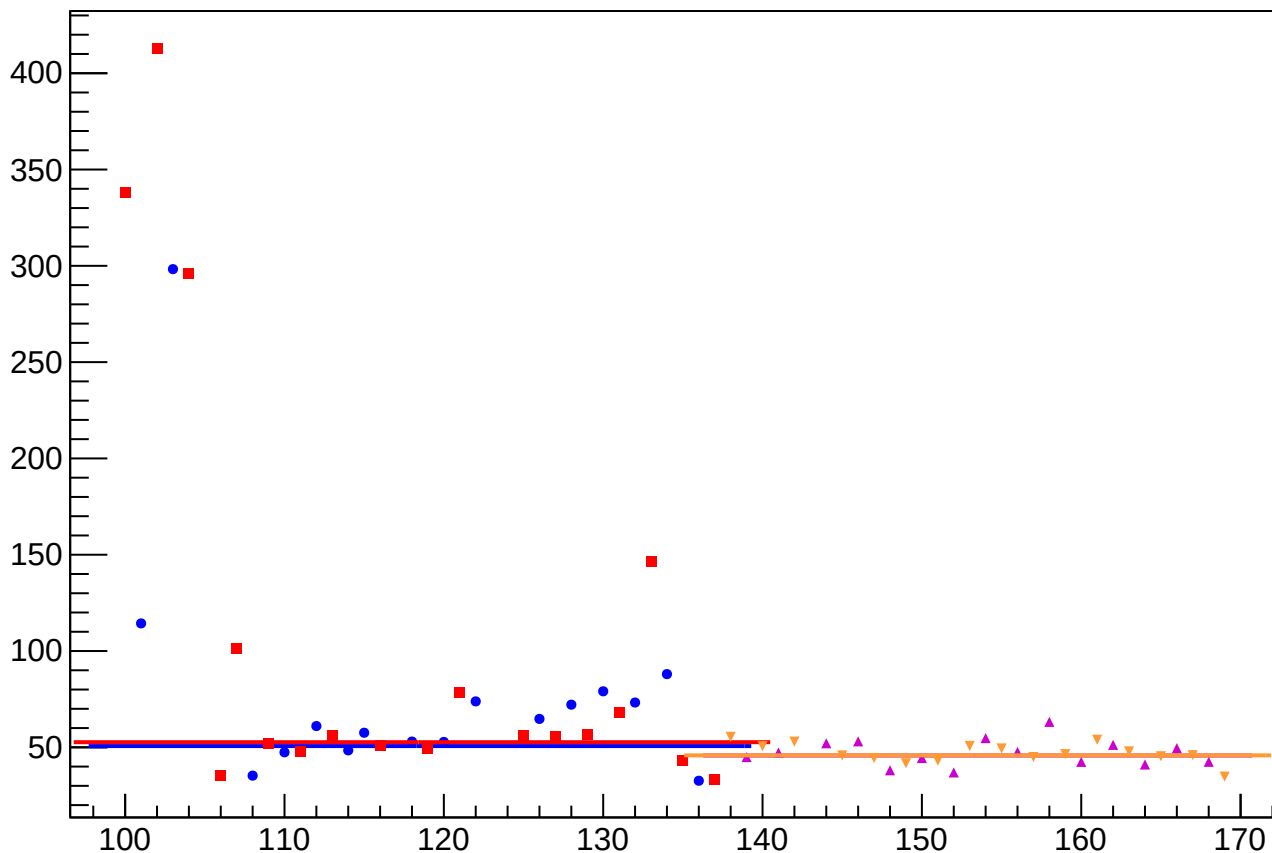
Right: -0.005 ± 0.016 $\chi^2/\text{NDF}: 28.8/33$

In: 0.005 ± 0.012 $\chi^2/\text{NDF}: 17.9/30$

Out: -0.038 ± 0.012 $\chi^2/\text{NDF}: 28.6/33$

All: -0.016 ± 0.008 $\chi^2/\text{NDF}: 53.0/64$

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 50.645 $\pm$ 0.015 χ^2 /NDF: 2266445.6/15

Left Out: 45.825 $\pm$ 0.010 χ^2 /NDF: 279058.2/15

Right Out: 52.666 $\pm$ 0.016 χ^2 /NDF: 2211938.1/17

Left In: 45.741 $\pm$ 0.010 χ^2 /NDF: 413131.5/14

Left: 45.783 $\pm$ 0.007 χ^2 /NDF: 692224.6/30

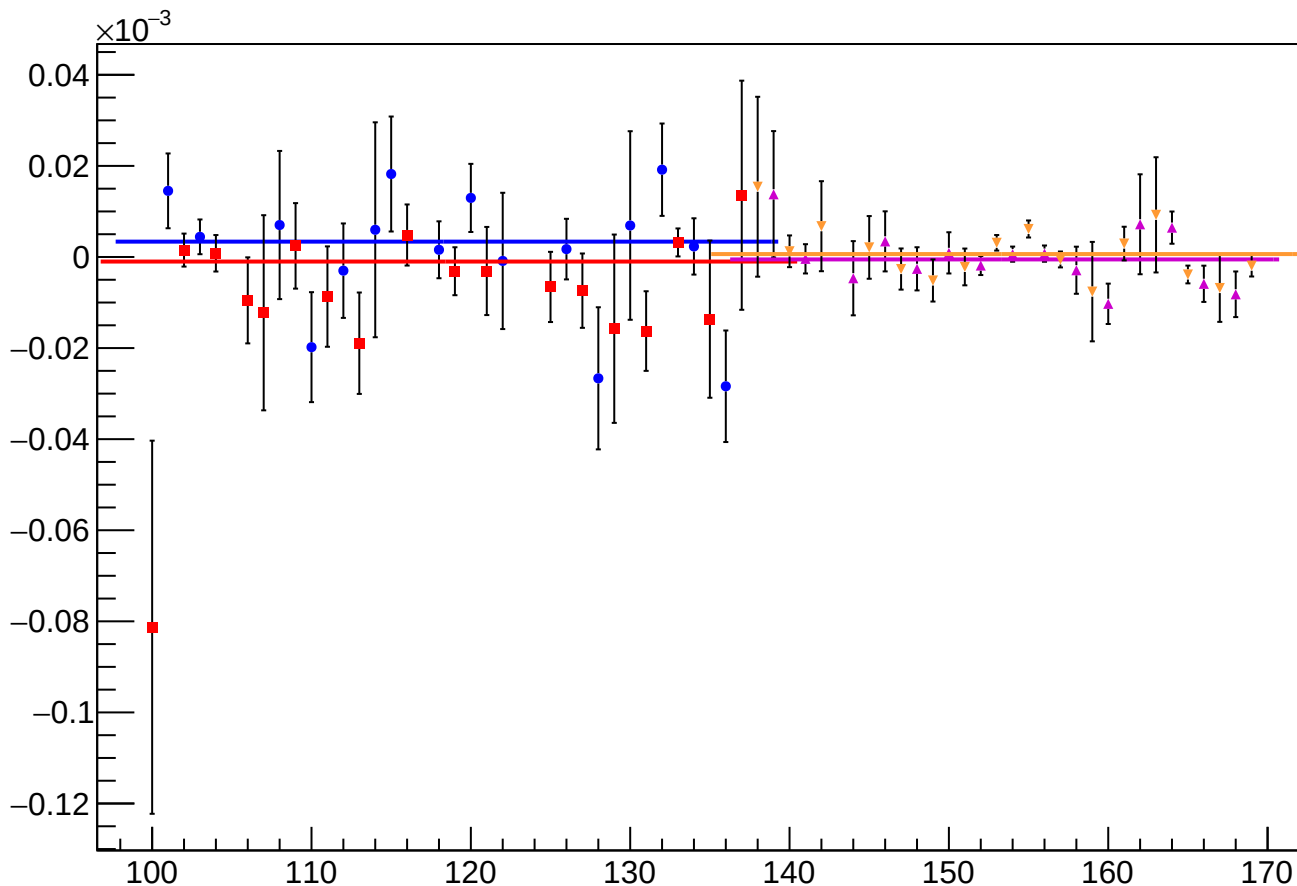
Right: 51.600 $\pm$ 0.011 χ^2 /NDF: 4486449.2/33

In: 47.189 $\pm$ 0.008 χ^2 /NDF: 2750433.7/30

Out: 47.677 $\pm$ 0.009 χ^2 /NDF: 2618794.7/33

All: 47.430 $\pm$ 0.006 χ^2 /NDF: 5370893.8/64

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 23.7/15

Right Out: -0.000+/-0.000 χ^2/NDF : 17.2/17

Left In: -0.000+/-0.000 χ^2/NDF : 17.0/14

Left: 0.000+/-0.000 χ^2/NDF : 41.7/30

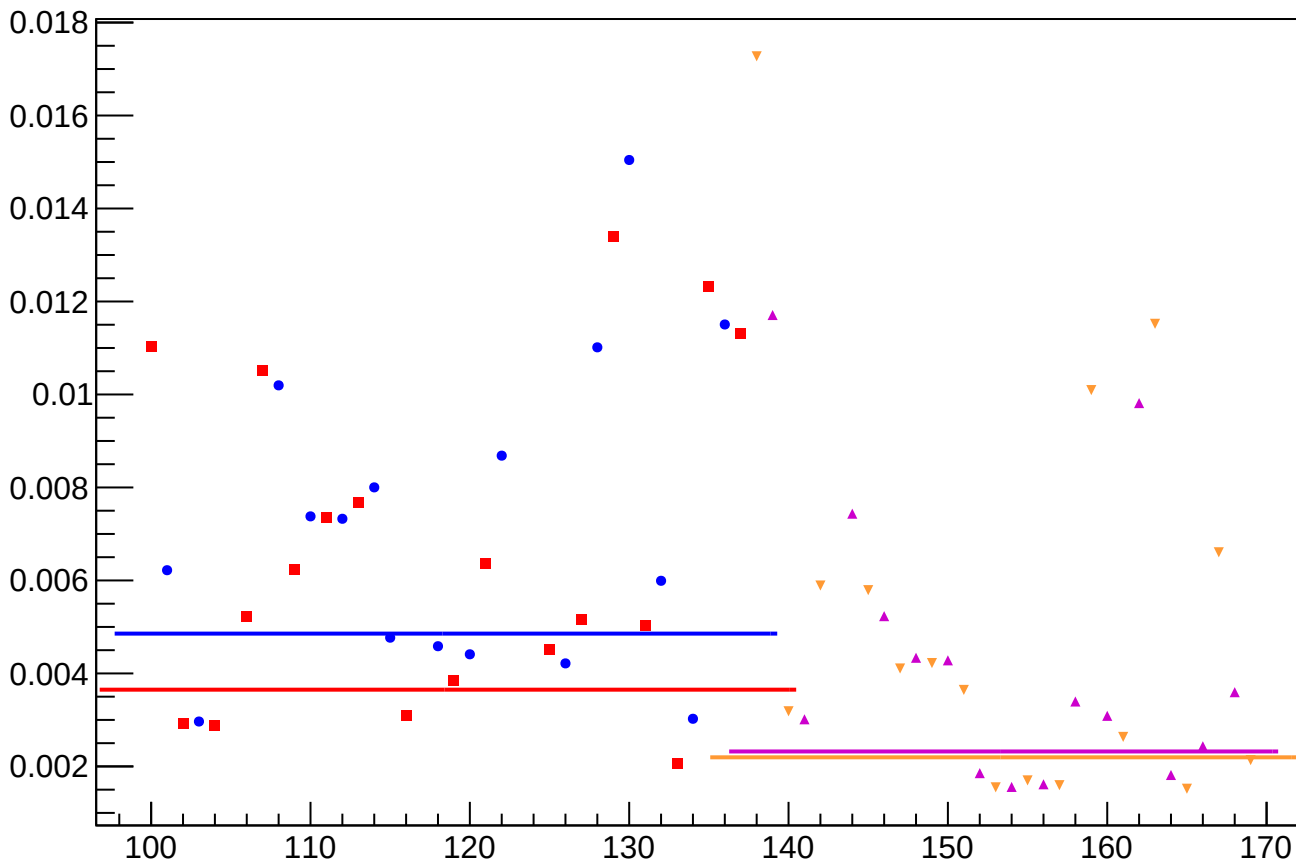
Right: 0.000+/-0.000 χ^2/NDF : 42.3/33

In: 0.000+/-0.000 χ^2/NDF : 42.2/30

Out: 0.000+/-0.000 χ^2/NDF : 41.8/33

All: 0.000+/-0.000 χ^2/NDF : 84.1/64

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2745089.6/15

Left Out: 0.002+/-0.000 χ^2/NDF : 6921860.9/15

Right Out: 0.004+/-0.000 χ^2/NDF : 3108848.8/17

Left In: 0.002+/-0.000 χ^2/NDF : 5006824.9/14

Left: 0.002+/-0.000 χ^2/NDF : 11953772.4/30

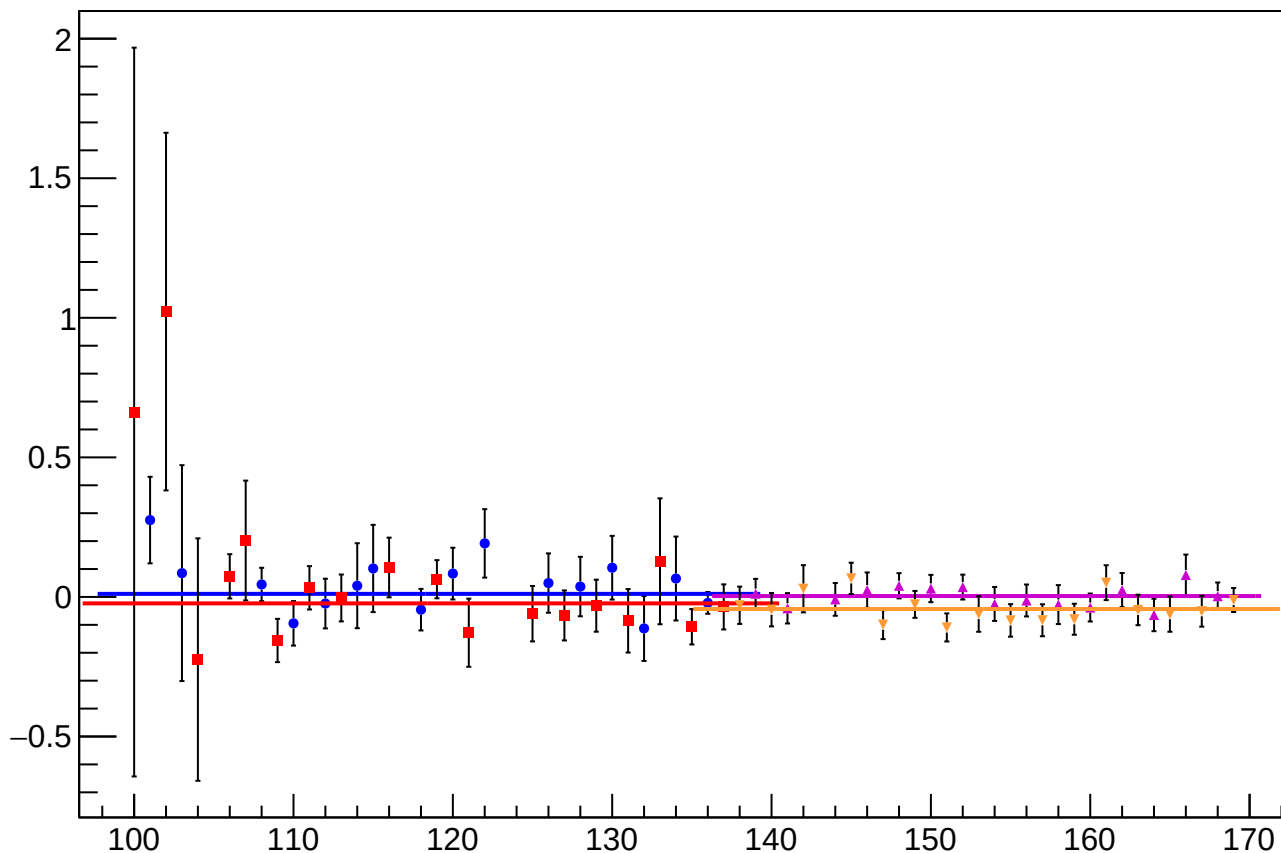
Right: 0.004+/-0.000 χ^2/NDF : 6282872.0/33

In: 0.003+/-0.000 χ^2/NDF : 10306082.0/30

Out: 0.002+/-0.000 χ^2/NDF : 11433720.7/33

All: 0.003+/-0.000 χ^2/NDF : 21822676.1/64

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 ± 0.022 $\chi^2/\text{NDF}: 11.7/15$

Left Out: -0.043 ± 0.014 $\chi^2/\text{NDF}: 12.1/15$

Right Out: -0.023 ± 0.023 $\chi^2/\text{NDF}: 15.9/17$

Left In: 0.003 ± 0.014 $\chi^2/\text{NDF}: 6.0/14$

Left: -0.020 ± 0.010 $\chi^2/\text{NDF}: 23.5/30$

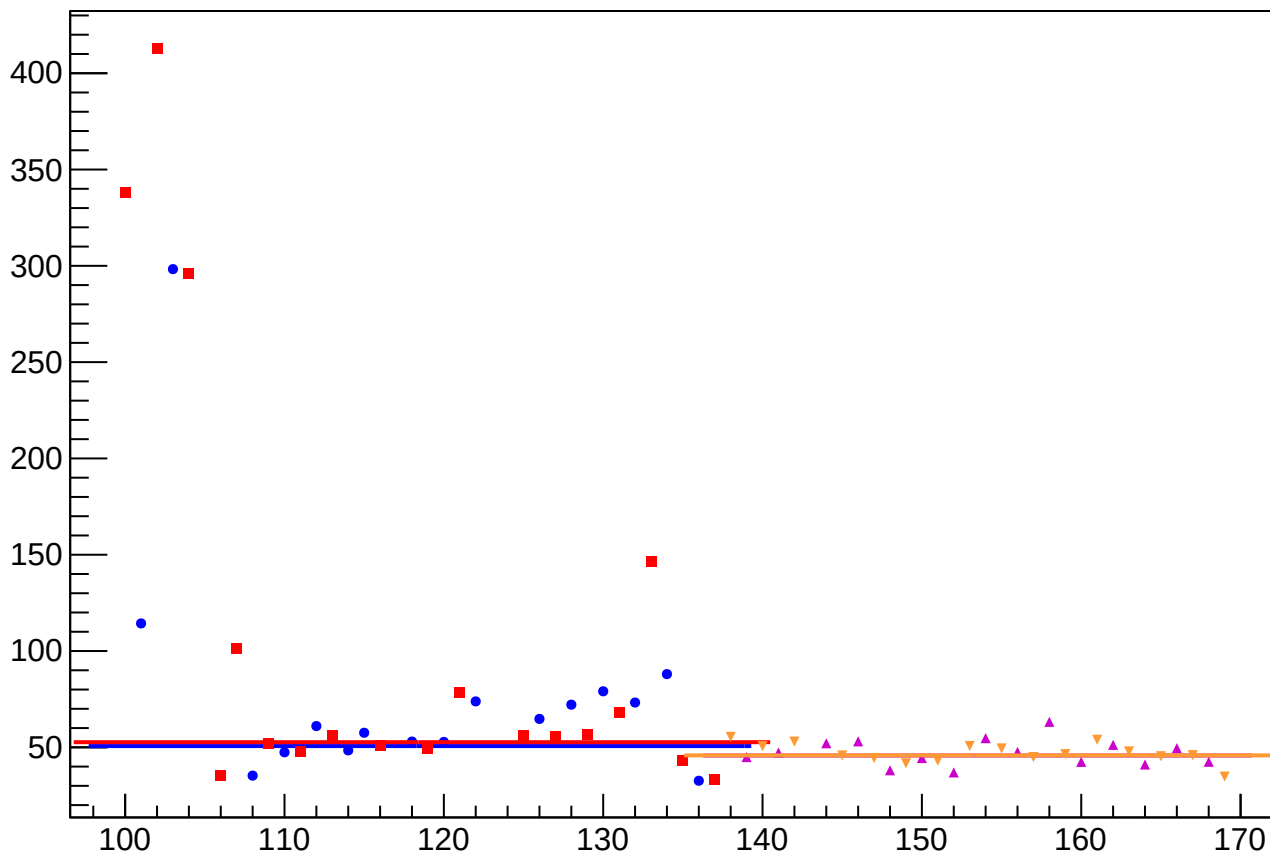
Right: -0.005 ± 0.016 $\chi^2/\text{NDF}: 28.8/33$

In: 0.005 ± 0.012 $\chi^2/\text{NDF}: 17.9/30$

Out: -0.038 ± 0.012 $\chi^2/\text{NDF}: 28.6/33$

All: -0.016 ± 0.008 $\chi^2/\text{NDF}: 53.0/64$

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 50.646 $\pm$ 0.015 χ^2/NDF : 2266348.3/15

Left Out: 45.825 $\pm$ 0.010 χ^2/NDF :279050.0/15

Right Out: 52.667 $\pm$ 0.016 χ^2/NDF : 2211822.2/17

Left In: 45.742 $\pm$ 0.010 χ^2/NDF :413094.5/14

Left: 45.783 $\pm$ 0.007 χ^2/NDF : 692179.1/30

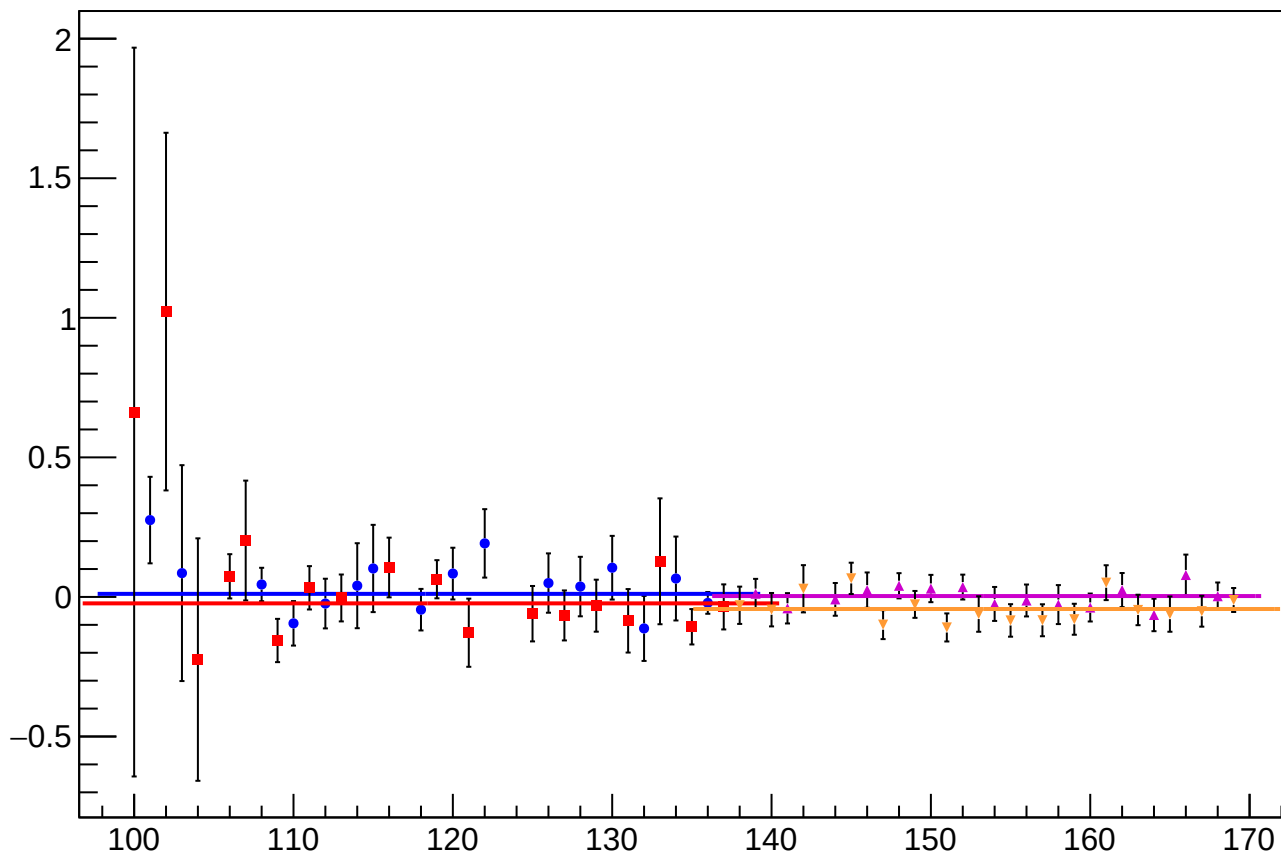
Right: 51.601 $\pm$ 0.011 χ^2/NDF : 4486238.7/33

In: 47.189 $\pm$ 0.008 χ^2/NDF :2750306.5/30

Out: 47.677 $\pm$ 0.009 χ^2/NDF :2618711.5/33

All: 47.430 $\pm$ 0.006 χ^2/NDF : 5370681.1/64

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.022 χ^2 /NDF: 11.7/15

Left Out: -0.043 $\pm$ 0.014 χ^2 /NDF:12.1/15

Right Out: -0.023 $\pm$ 0.023 χ^2 /NDF: 15.9/17

Left In: 0.003 $\pm$ 0.014 χ^2 /NDF:6.0/14

Left: -0.020 $\pm$ 0.010 χ^2 /NDF: 23.5/30

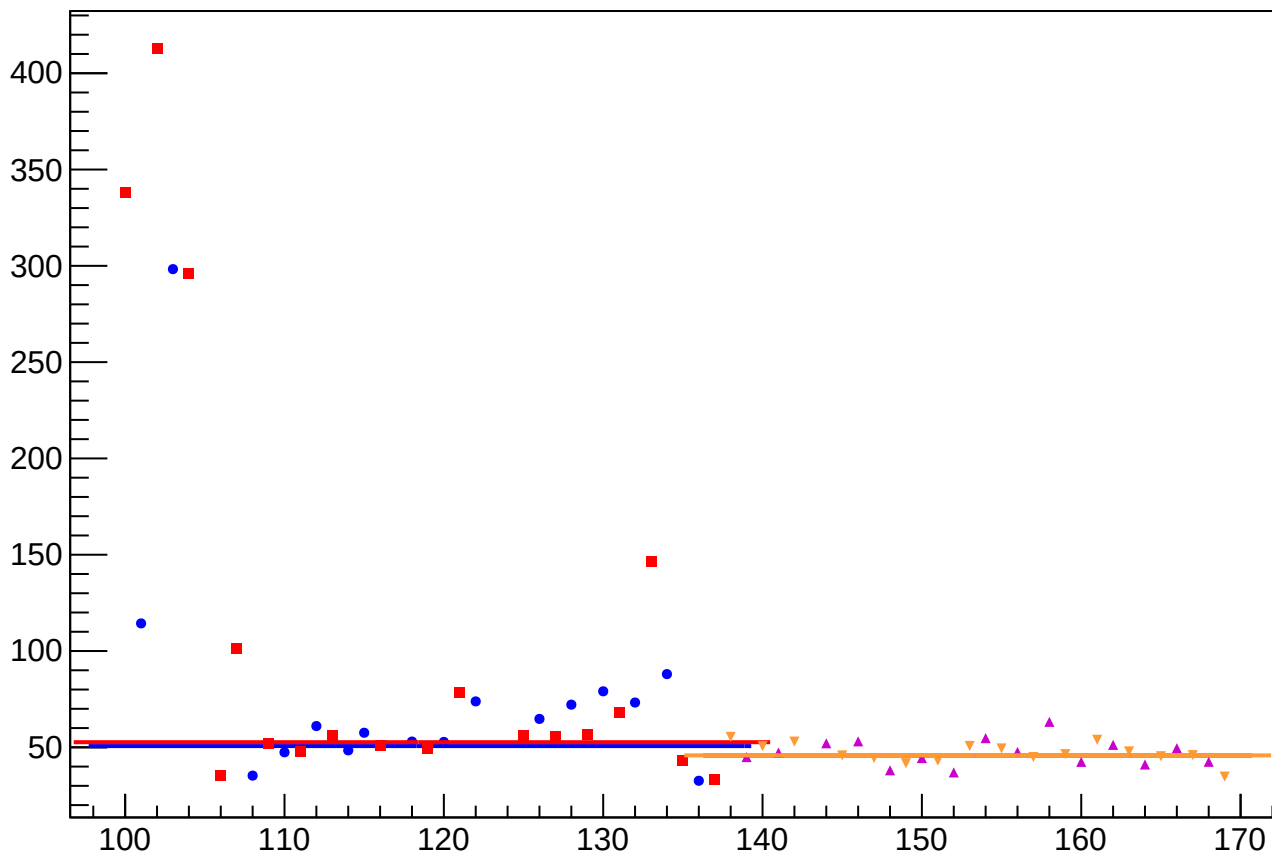
Right: -0.005 $\pm$ 0.016 χ^2 /NDF: 28.8/33

In: 0.005 $\pm$ 0.012 χ^2 /NDF:17.9/30

Out: -0.038 $\pm$ 0.012 χ^2 /NDF:28.6/33

All: -0.016 $\pm$ 0.008 χ^2 /NDF: 53.0/64

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 50.646 $\pm$ 0.015 χ^2 /NDF: 2266348.3/15

Left Out: 45.825 $\pm$ 0.010 χ^2 /NDF: 279050.0/15

Right Out: 52.667 $\pm$ 0.016 χ^2 /NDF: 2211822.2/17

Left In: 45.742 $\pm$ 0.010 χ^2 /NDF: 413094.5/14

Left: 45.783 $\pm$ 0.007 χ^2 /NDF: 692179.1/30

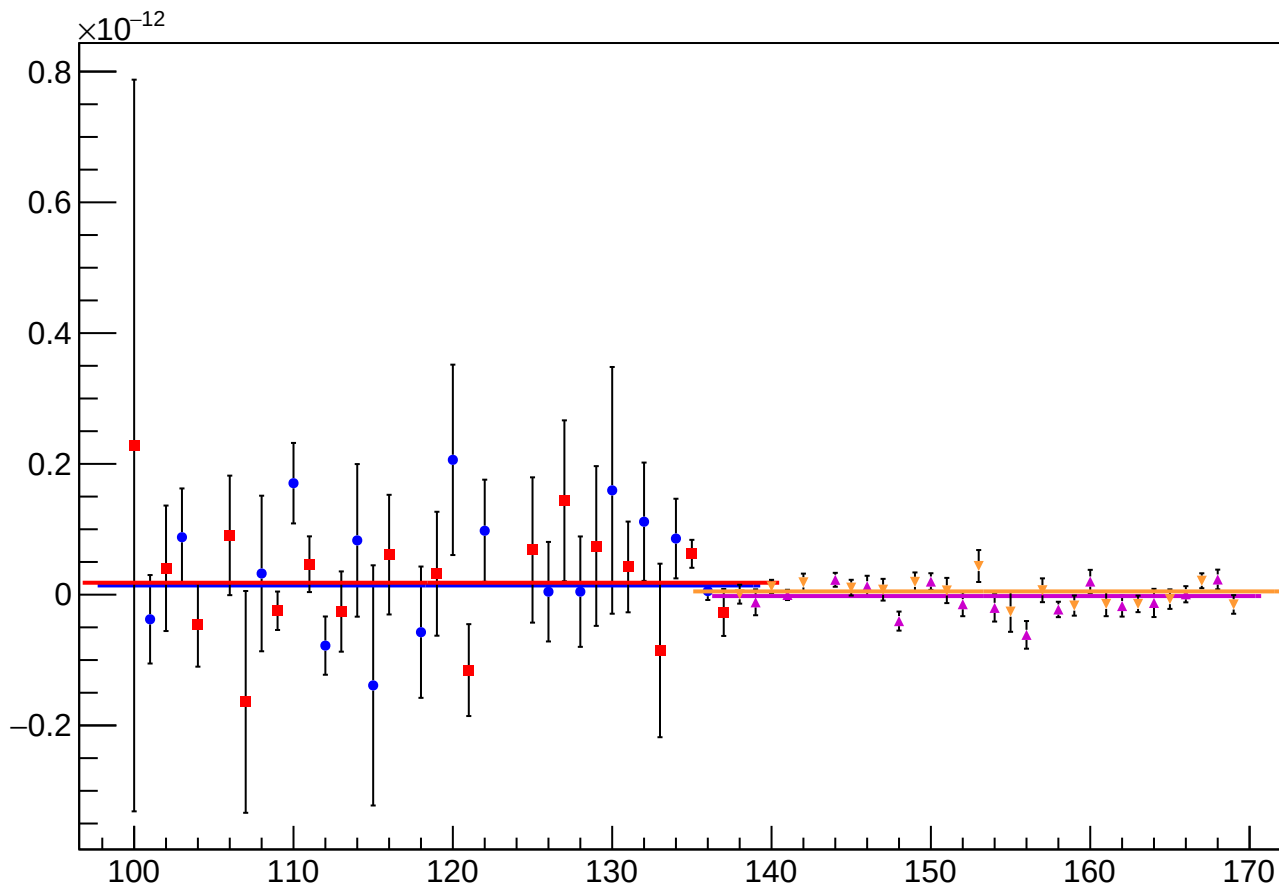
Right: 51.601 $\pm$ 0.011 χ^2 /NDF: 4486238.7/33

In: 47.189 $\pm$ 0.008 χ^2 /NDF: 2750306.5/30

Out: 47.677 $\pm$ 0.009 χ^2 /NDF: 2618711.5/33

All: 47.430 $\pm$ 0.006 χ^2 /NDF: 5370681.1/64

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :16.5/15

Right Out: 0.000+/-0.000 χ^2/NDF : 18.0/17

Left In: -0.000+/-0.000 χ^2/NDF :34.2/14

Left: 0.000+/-0.000 χ^2/NDF : 52.6/30

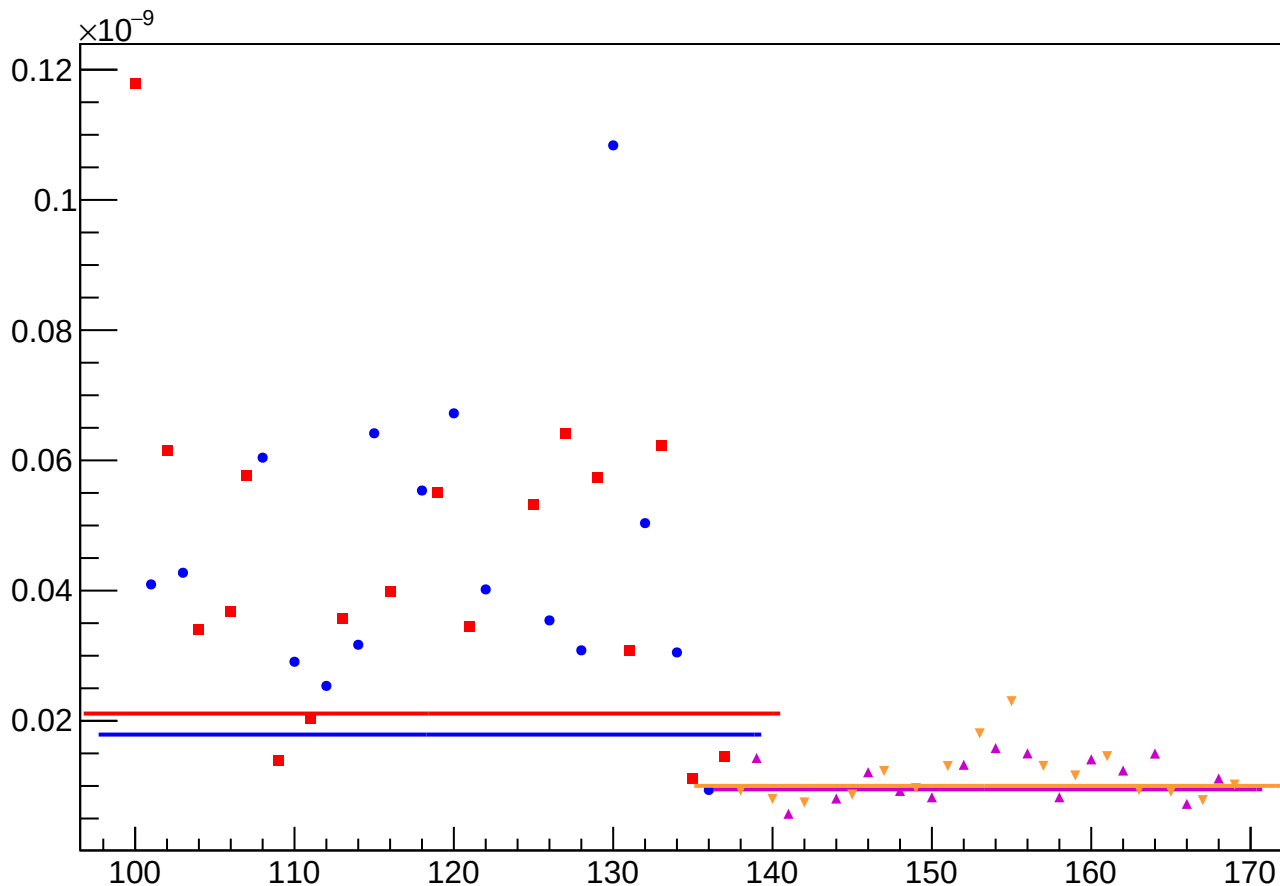
Right: 0.000+/-0.000 χ^2/NDF : 38.4/33

In: -0.000+/-0.000 χ^2/NDF :56.4/30

Out: 0.000+/-0.000 χ^2/NDF :35.5/33

All: 0.000+/-0.000 χ^2/NDF : 93.8/64

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3398524.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1124875.7/15

Right Out: 0.000+/-0.000 χ^2/NDF : 2621588.2/17

Left In: 0.000+/-0.000 χ^2/NDF : 1525371.0/14

Left: 0.000+/-0.000 χ^2/NDF : 2672107.1/30

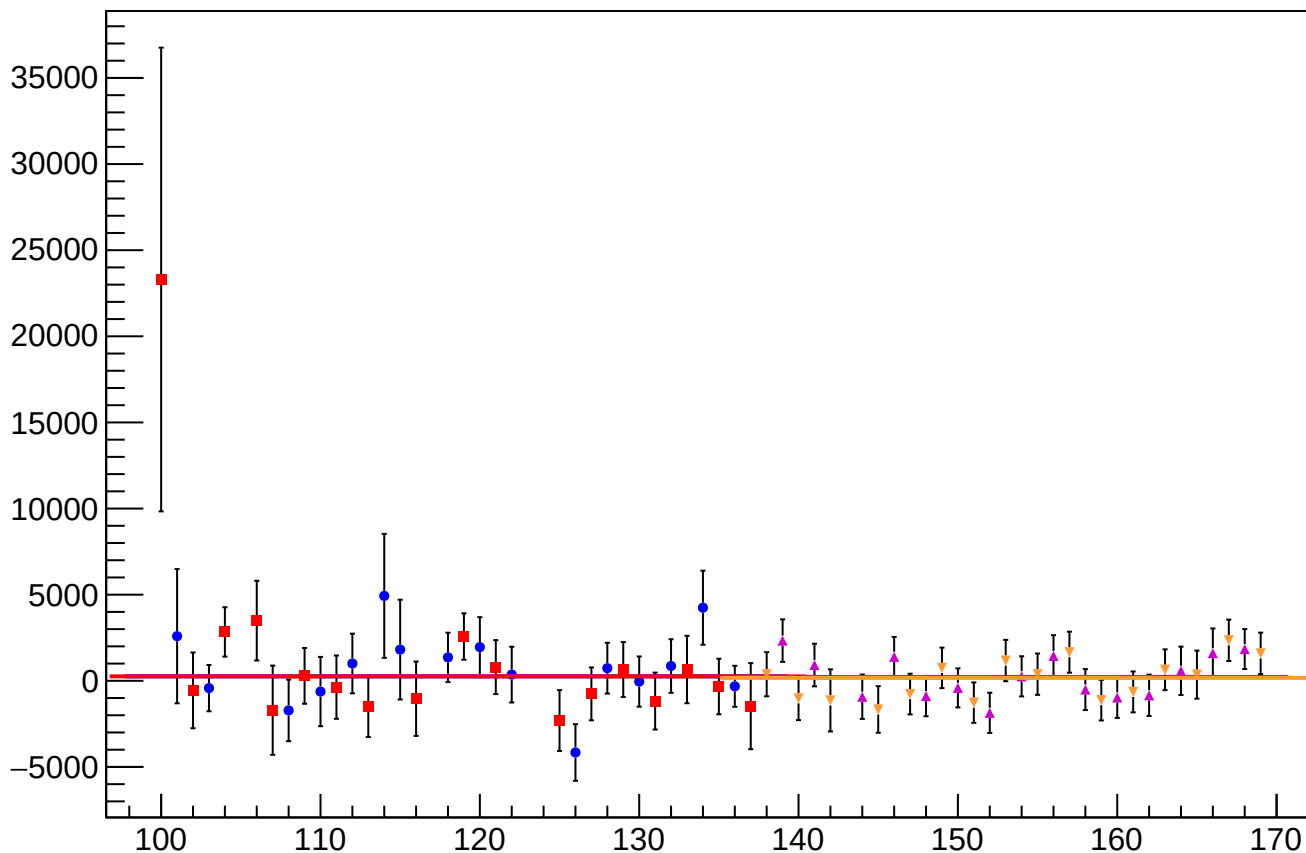
Right: 0.000+/-0.000 χ^2/NDF : 6093228.6/33

In: 0.000+/-0.000 χ^2/NDF : 5926965.1/30

Out: 0.000+/-0.000 χ^2/NDF : 5192999.8/33

All: 0.000+/-0.000 χ^2/NDF : 11153859.0/64

reg_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 260.797 $\pm$ 424.657 χ^2 /NDF: 16.9/15

Left Out: 169.928 $\pm$ 310.256 χ^2 /NDF:14.5/15

Right Out: 255.934 $\pm$ 425.784 χ^2 /NDF: 17.4/17

Left In: 224.483 $\pm$ 313.354 χ^2 /NDF:15.6/14

Left: 196.934 $\pm$ 220.471 χ^2 /NDF: 30.1/30

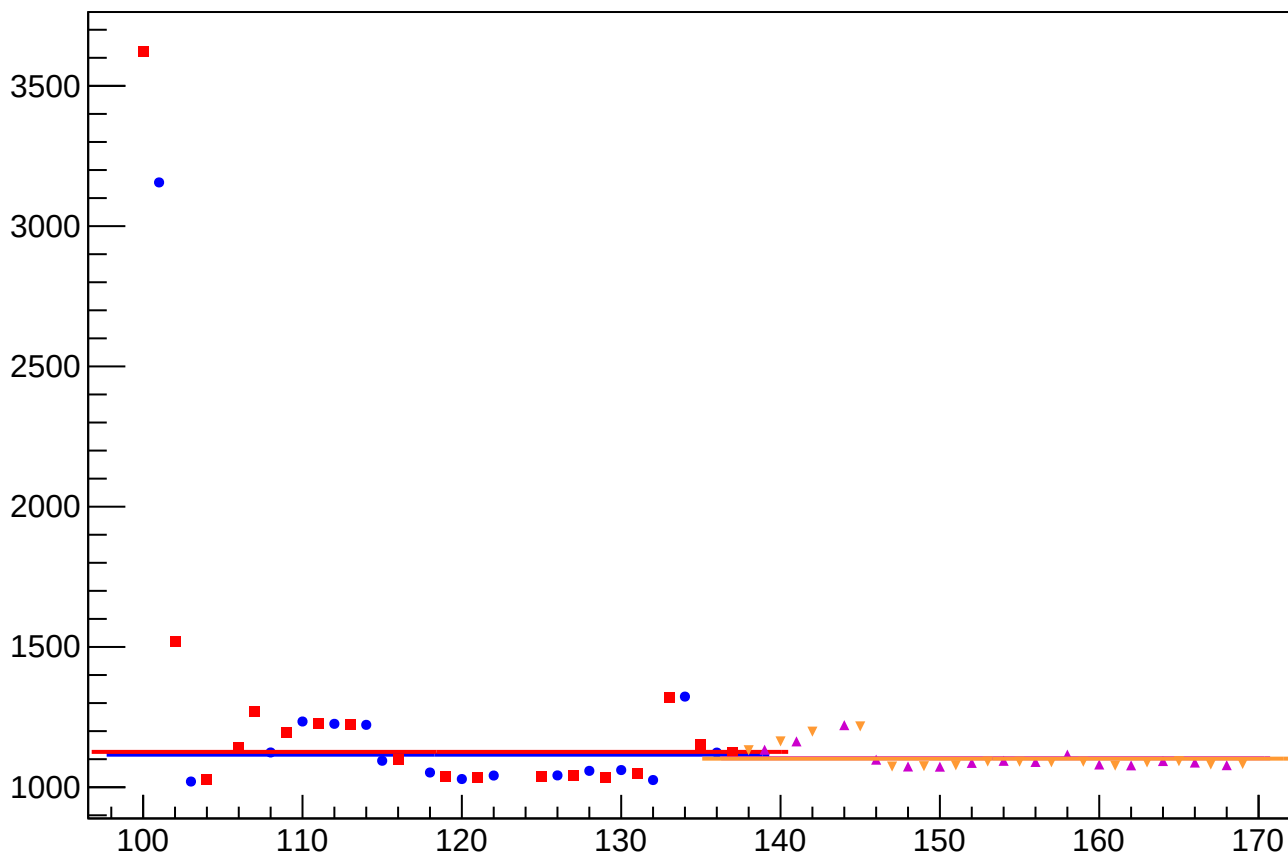
Right: 258.372 $\pm$ 300.676 χ^2 /NDF: 34.3/33

In: 237.285 $\pm$ 252.140 χ^2 /NDF:32.6/30

Out: 199.756 $\pm$ 250.749 χ^2 /NDF:31.9/33

All: 218.417 $\pm$ 177.796 χ^2 /NDF: 64.5/64

reg_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1116.089+/-0.300 χ^2/NDF : 623390.9/15

Left Out: 1101.922+/-0.219 χ^2/NDF : 32026.5/15

Right Out: 1126.016+/-0.301 χ^2/NDF : 222106.0/17

Left In: 1103.308+/-0.222 χ^2/NDF : 29250.2/14

Left: 1102.608+/-0.156 χ^2/NDF : 61296.4/30

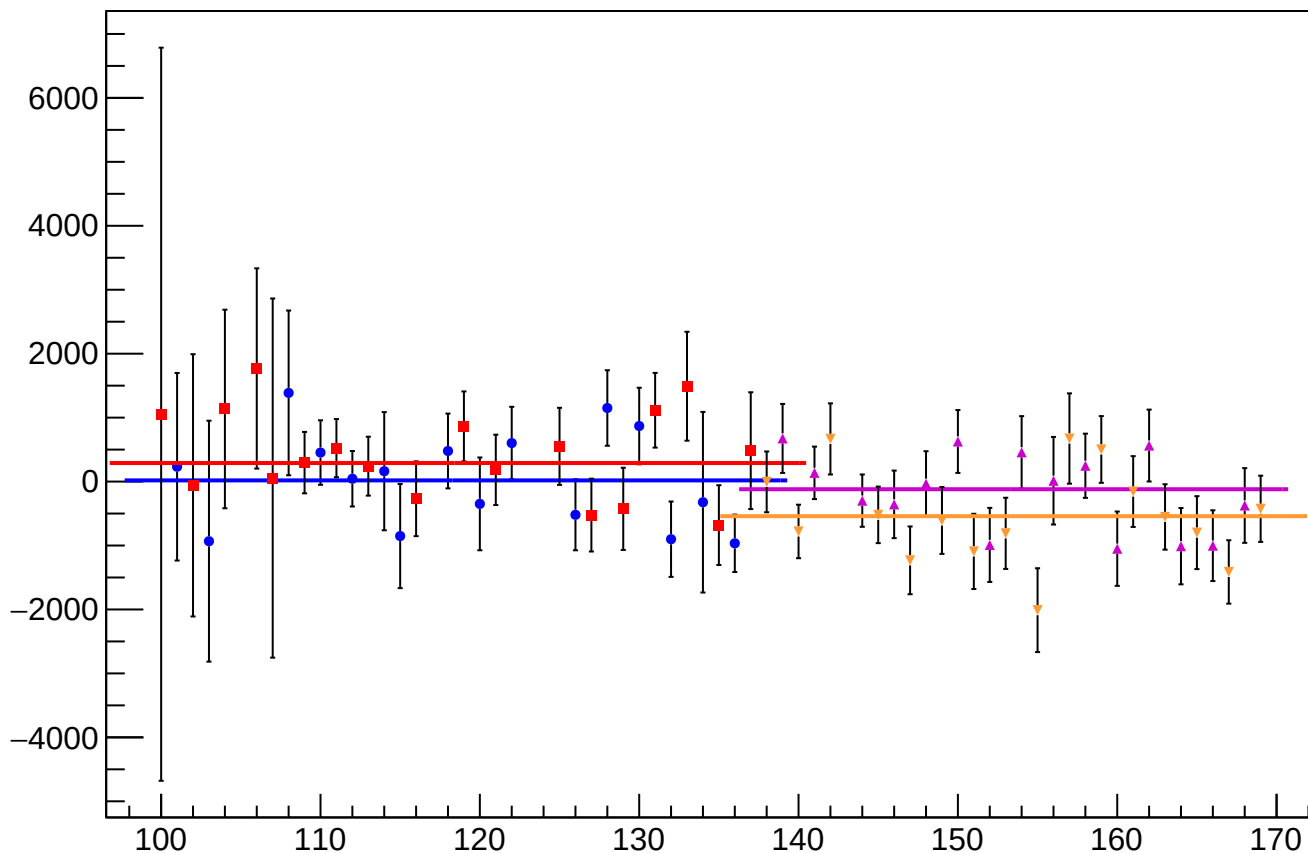
Right: 1121.039+/-0.213 χ^2/NDF : 846041.8/33

In: 1107.814+/-0.178 χ^2/NDF : 653814.2/30

Out: 1110.278+/-0.177 χ^2/NDF : 258315.3/33

All: 1109.053+/-0.126 χ^2/NDF : 912225.5/64

asym_us_dd_atlr_dd_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 18.468+/-161.237 χ^2/NDF : 19.2/15

Left Out: -541.001+/-131.526 χ^2/NDF :25.0/15

Right Out: 289.946+/-156.189 χ^2/NDF : 13.5/17

Left In: -119.844+/-135.726 χ^2/NDF :18.2/14

Left: -337.039+/-94.453 χ^2/NDF : 48.1/30

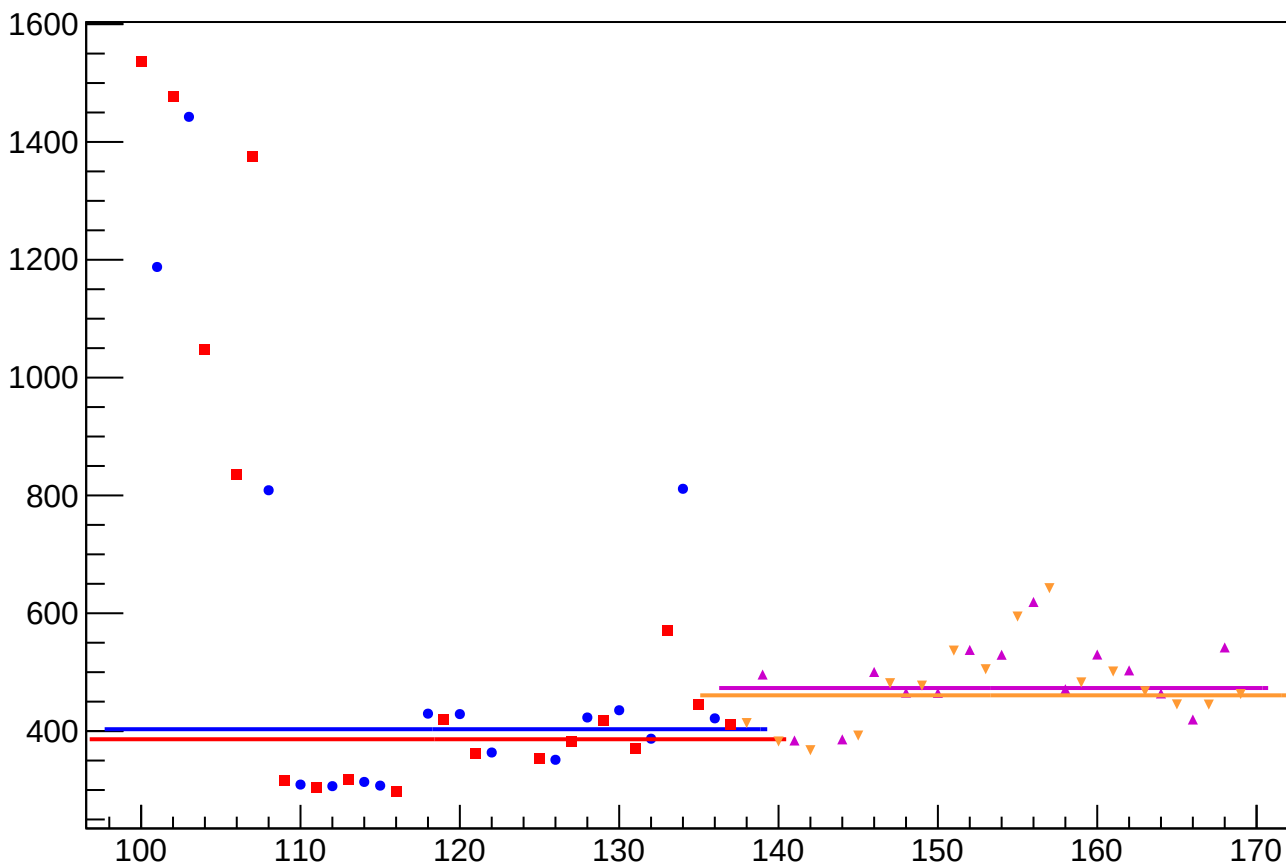
Right: 158.523+/-112.184 χ^2/NDF : 34.1/33

In: -62.483+/-103.835 χ^2/NDF :37.8/30

Out: -196.236+/-100.606 χ^2/NDF :55.0/33

All: -131.471+/-72.254 χ^2/NDF : 93.6/64

asym_us_dd_atlr_dd_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 403.194+/-0.114 χ^2/NDF : 1808432.3/15

Left Out: 460.694+/-0.093 χ^2/NDF : 478560.1/15

Right Out: 386.146+/-0.110 χ^2/NDF : 1759113.8/17

Left In: 473.093+/-0.096 χ^2/NDF : 402718.5/14

Left: 466.698+/-0.067 χ^2/NDF : 889885.6/30

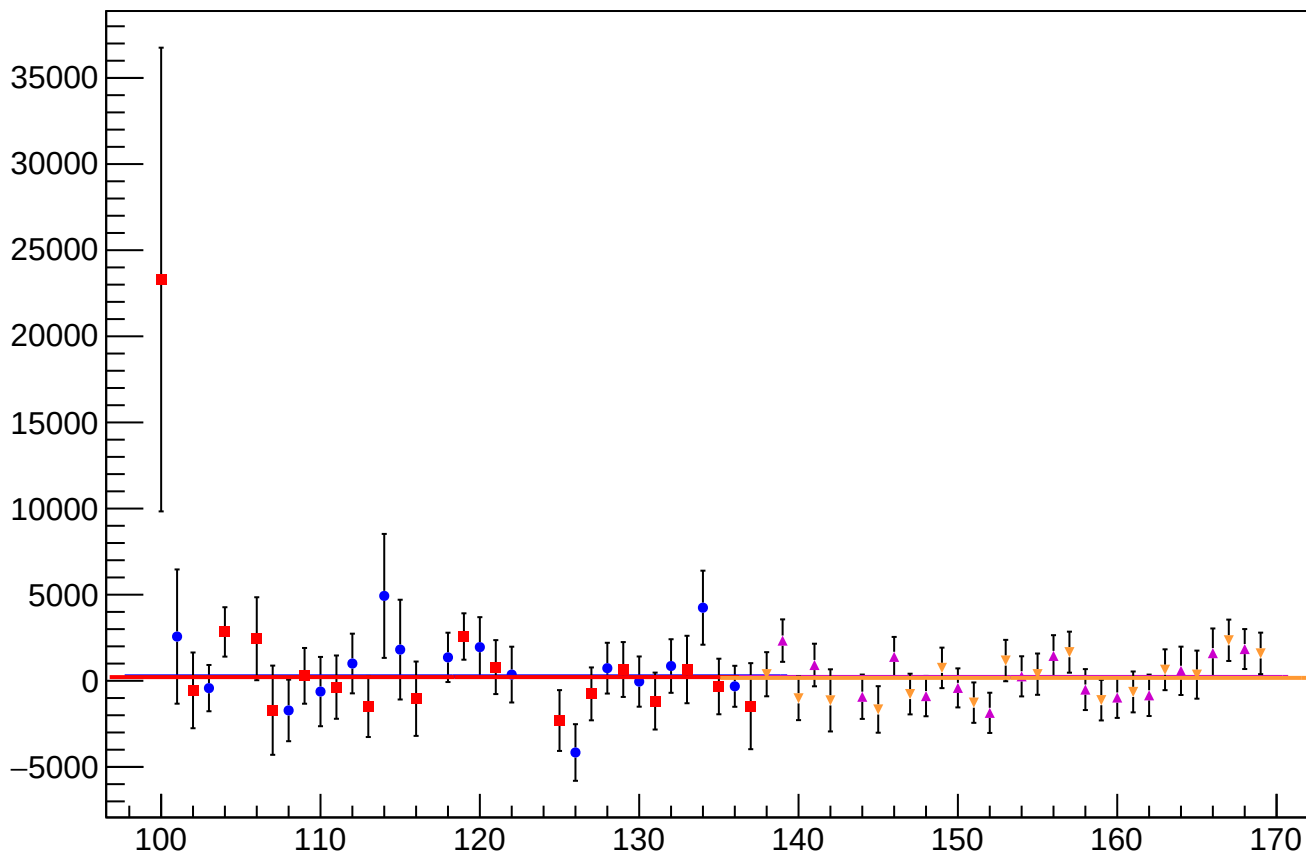
Right: 394.399+/-0.079 χ^2/NDF : 3579081.1/33

In: 444.104+/-0.073 χ^2/NDF : 2431137.5/30

Out: 429.764+/-0.071 χ^2/NDF : 2504252.8/33

All: 436.707+/-0.051 χ^2/NDF : 4955066.6/64

cor_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 260.415+/-424.657 χ^2/NDF : 16.9/15

Left Out: 169.909+/-310.256 χ^2/NDF :14.5/15

Right Out: 214.501+/-426.342 χ^2/NDF : 16.2/17

Left In: 224.505+/-313.354 χ^2/NDF :15.6/14

Left: 196.936+/-220.471 χ^2/NDF : 30.1/30

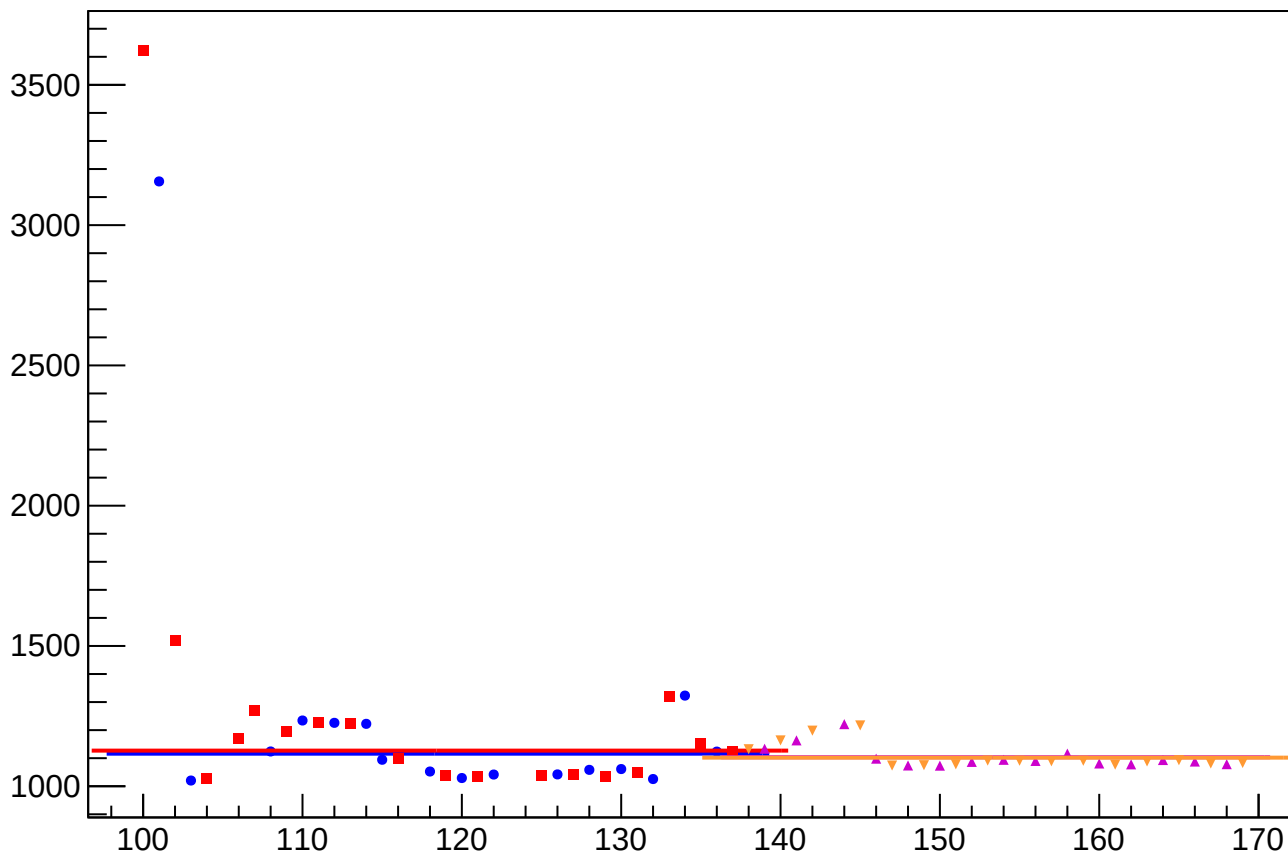
Right: 237.549+/-300.872 χ^2/NDF : 33.2/33

In: 237.165+/-252.140 χ^2/NDF :32.6/30

Out: 185.348+/-250.862 χ^2/NDF :30.7/33

All: 211.125+/-177.836 χ^2/NDF : 63.3/64

cor_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1116.089 $\pm$ 0.300 χ^2 /NDF: 623391.9/15

Left Out: 1101.922 $\pm$ 0.219 χ^2 /NDF: 32026.5/15

Right Out: 1126.960 $\pm$ 0.301 χ^2 /NDF: 222740.2/17

Left In: 1103.308 $\pm$ 0.222 χ^2 /NDF: 29250.2/14

Left: 1102.608 $\pm$ 0.156 χ^2 /NDF: 61296.4/30

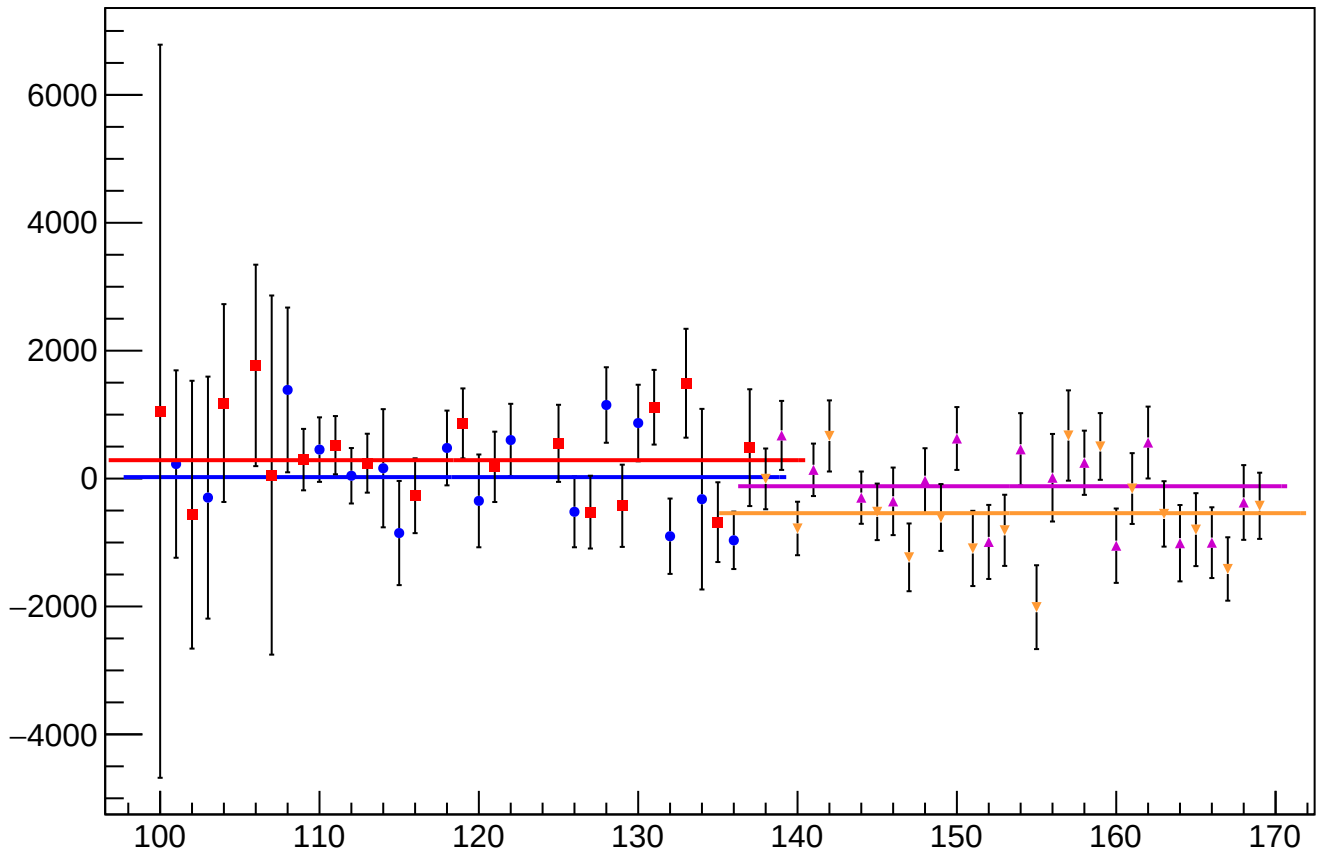
Right: 1121.503 $\pm$ 0.213 χ^2 /NDF: 846784.8/33

In: 1107.814 $\pm$ 0.178 χ^2 /NDF: 653815.1/30

Out: 1110.591 $\pm$ 0.177 χ^2 /NDF: 259276.2/33

All: 1109.209 $\pm$ 0.126 χ^2 /NDF: 913213.3/64

asym_us_dd_atlr_dd_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 22.923+/-161.238 χ^2/NDF : 19.0/15

Left Out: -541.057+/-131.526 χ^2/NDF :25.0/15

Right Out: 287.614+/-156.212 χ^2/NDF : 13.7/17

Left In: -119.810+/-135.725 χ^2/NDF :18.2/14

Left: -337.051+/-94.453 χ^2/NDF : 48.1/30

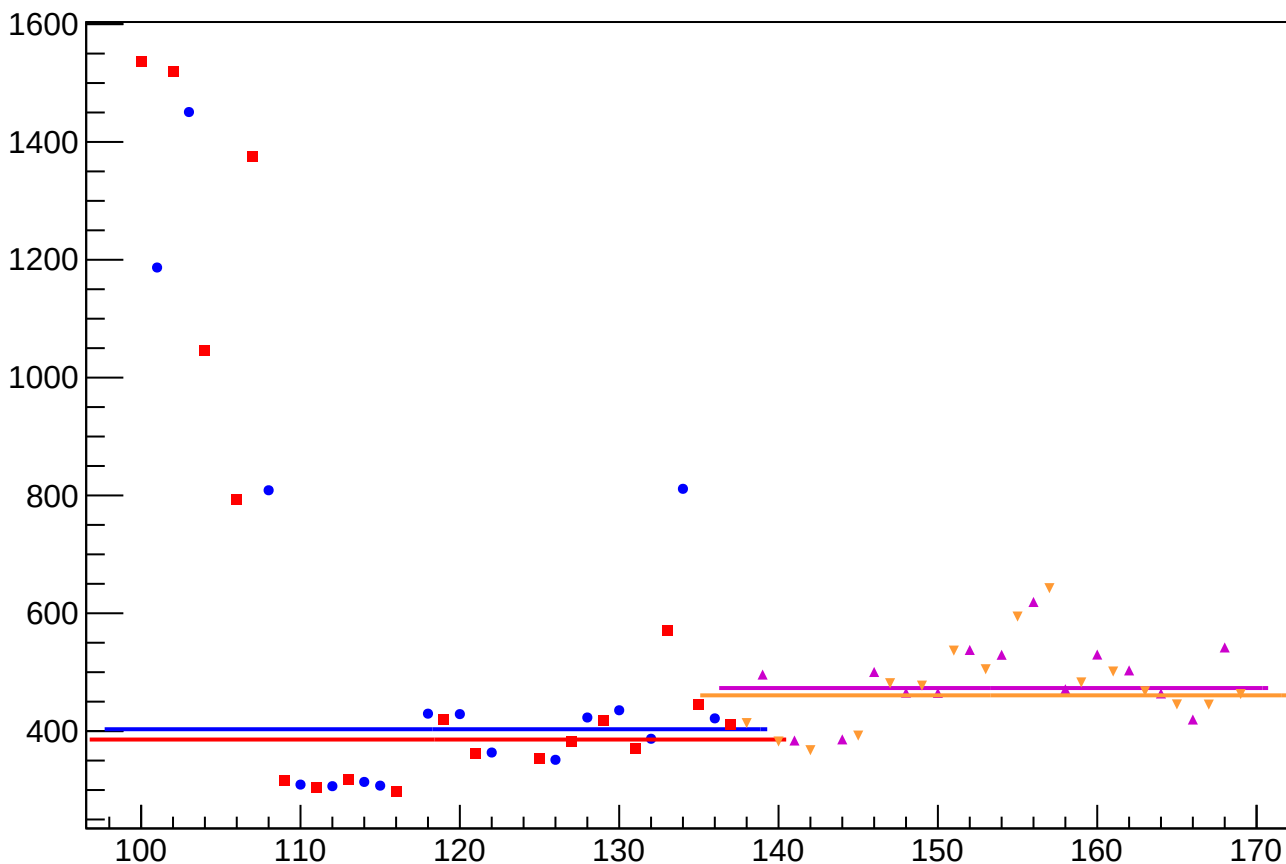
Right: 159.458+/-112.193 χ^2/NDF : 34.0/33

In: -60.616+/-103.835 χ^2/NDF :37.6/30

Out: -197.297+/-100.612 χ^2/NDF :55.1/33

All: -131.111+/-72.256 χ^2/NDF : 93.6/64

asym_us_dd_atlr_dd_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 403.182+/-0.114 χ^2/NDF : 1812111.0/15

Left Out: 460.692+/-0.093 χ^2/NDF : 478578.1/15

Right Out: 385.682+/-0.110 χ^2/NDF : 1747152.2/17

Left In: 473.090+/-0.096 χ^2/NDF : 402690.9/14

Left: 466.696+/-0.067 χ^2/NDF : 889874.6/30

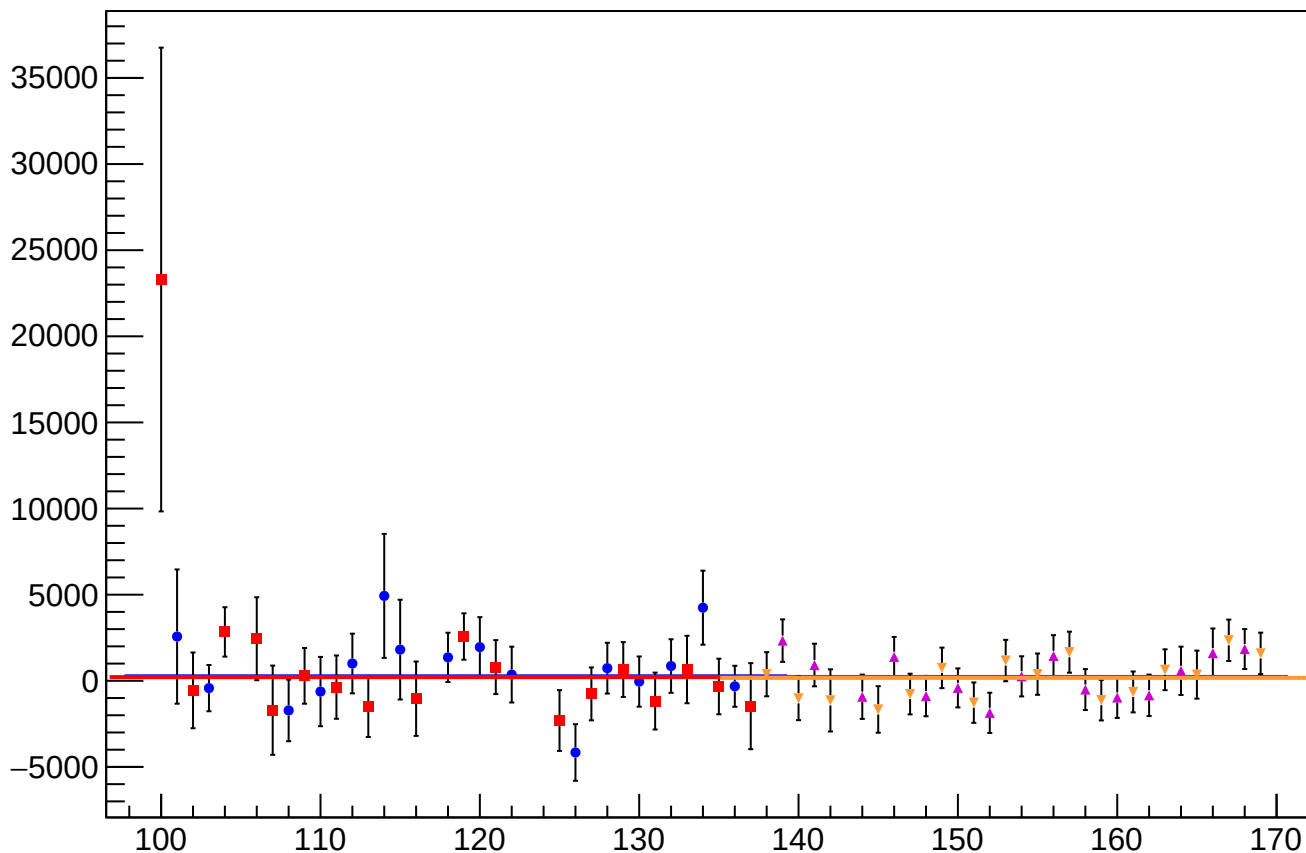
Right: 394.155+/-0.079 χ^2/NDF : 3571416.8/33

In: 444.098+/-0.073 χ^2/NDF : 2434845.6/30

Out: 429.575+/-0.071 χ^2/NDF : 2495583.4/33

All: 436.608+/-0.051 χ^2/NDF : 4950606.8/64

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 260.415+/-424.657 χ^2/NDF : 16.9/15

Left Out: 169.909+/-310.256 χ^2/NDF :14.5/15

Right Out: 214.501+/-426.342 χ^2/NDF : 16.2/17

Left In: 224.505+/-313.354 χ^2/NDF :15.6/14

Left: 196.936+/-220.471 χ^2/NDF : 30.1/30

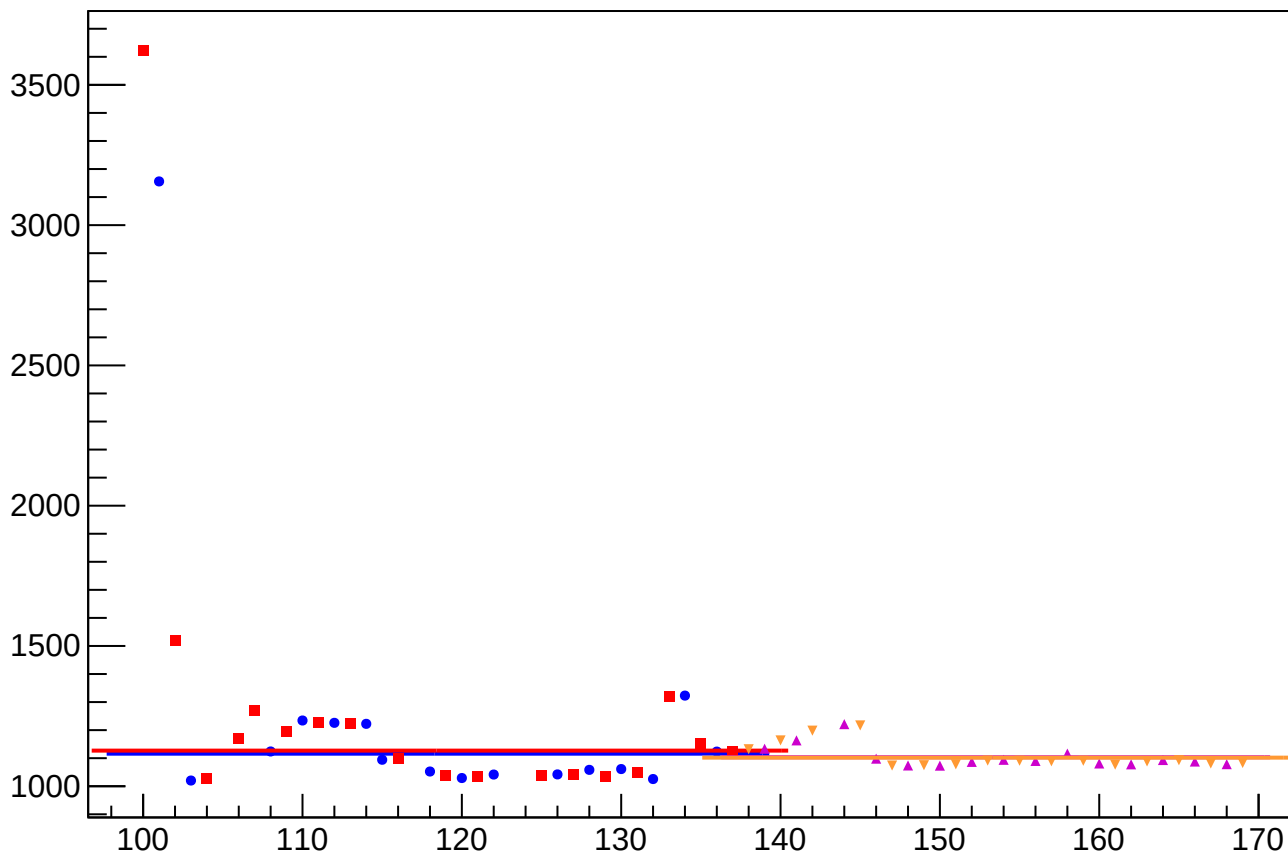
Right: 237.549+/-300.872 χ^2/NDF : 33.2/33

In: 237.165+/-252.140 χ^2/NDF :32.6/30

Out: 185.348+/-250.862 χ^2/NDF :30.7/33

All: 211.125+/-177.836 χ^2/NDF : 63.3/64

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1116.089 $\pm$ 0.300 χ^2 /NDF: 623391.9/15

Left Out: 1101.922 $\pm$ 0.219 χ^2 /NDF: 32026.5/15

Right Out: 1126.960 $\pm$ 0.301 χ^2 /NDF: 222740.2/17

Left In: 1103.308 $\pm$ 0.222 χ^2 /NDF: 29250.2/14

Left: 1102.608 $\pm$ 0.156 χ^2 /NDF: 61296.4/30

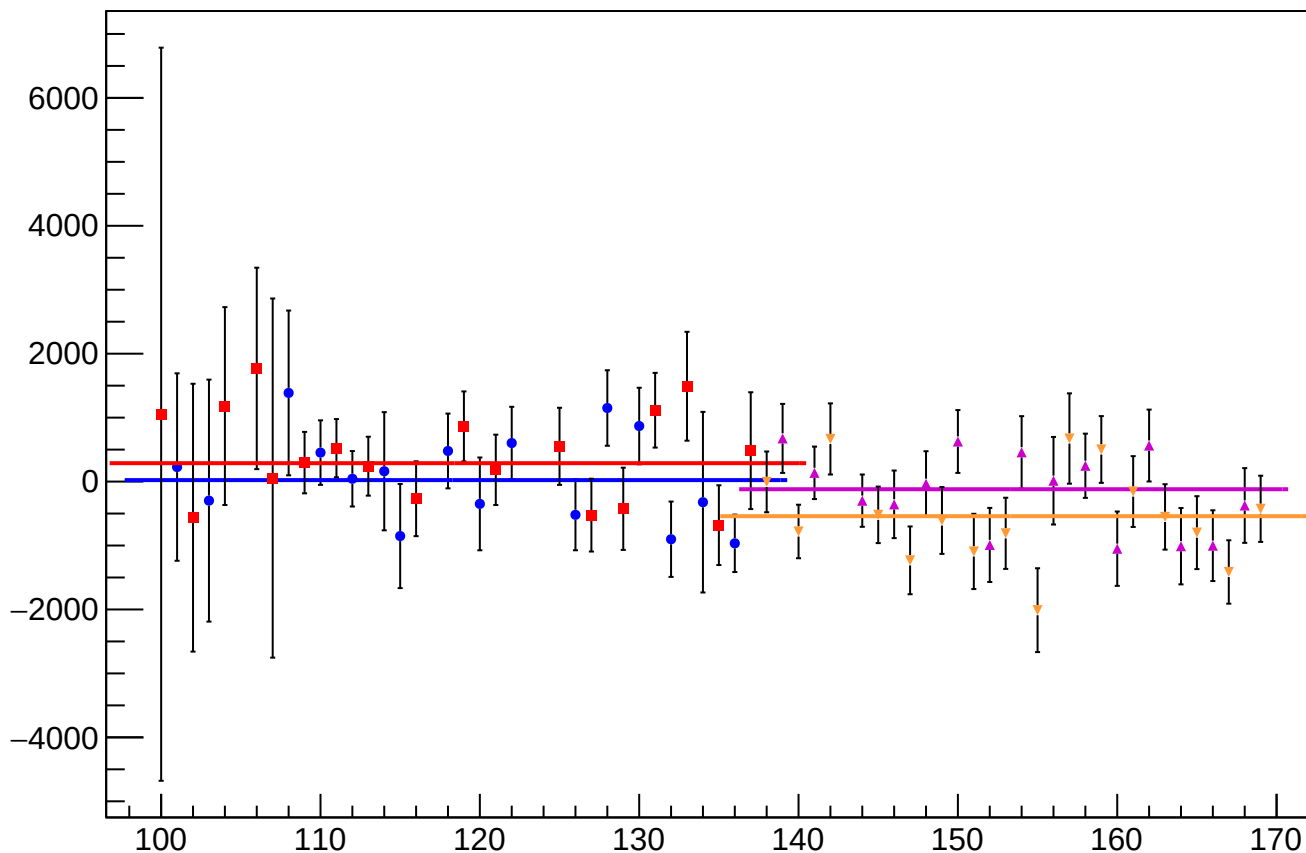
Right: 1121.503 $\pm$ 0.213 χ^2 /NDF: 846784.8/33

In: 1107.814 $\pm$ 0.178 χ^2 /NDF: 653815.1/30

Out: 1110.591 $\pm$ 0.177 χ^2 /NDF: 259276.2/33

All: 1109.209 $\pm$ 0.126 χ^2 /NDF: 913213.3/64

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 22.923+/-161.238 χ^2/NDF : 19.0/15

Left Out: -541.057+/-131.526 χ^2/NDF : 25.0/15

Right Out: 287.614+/-156.212 χ^2/NDF : 13.7/17

Left In: -119.810+/-135.725 χ^2/NDF : 18.2/14

Left: -337.051+/-94.453 χ^2/NDF : 48.1/30

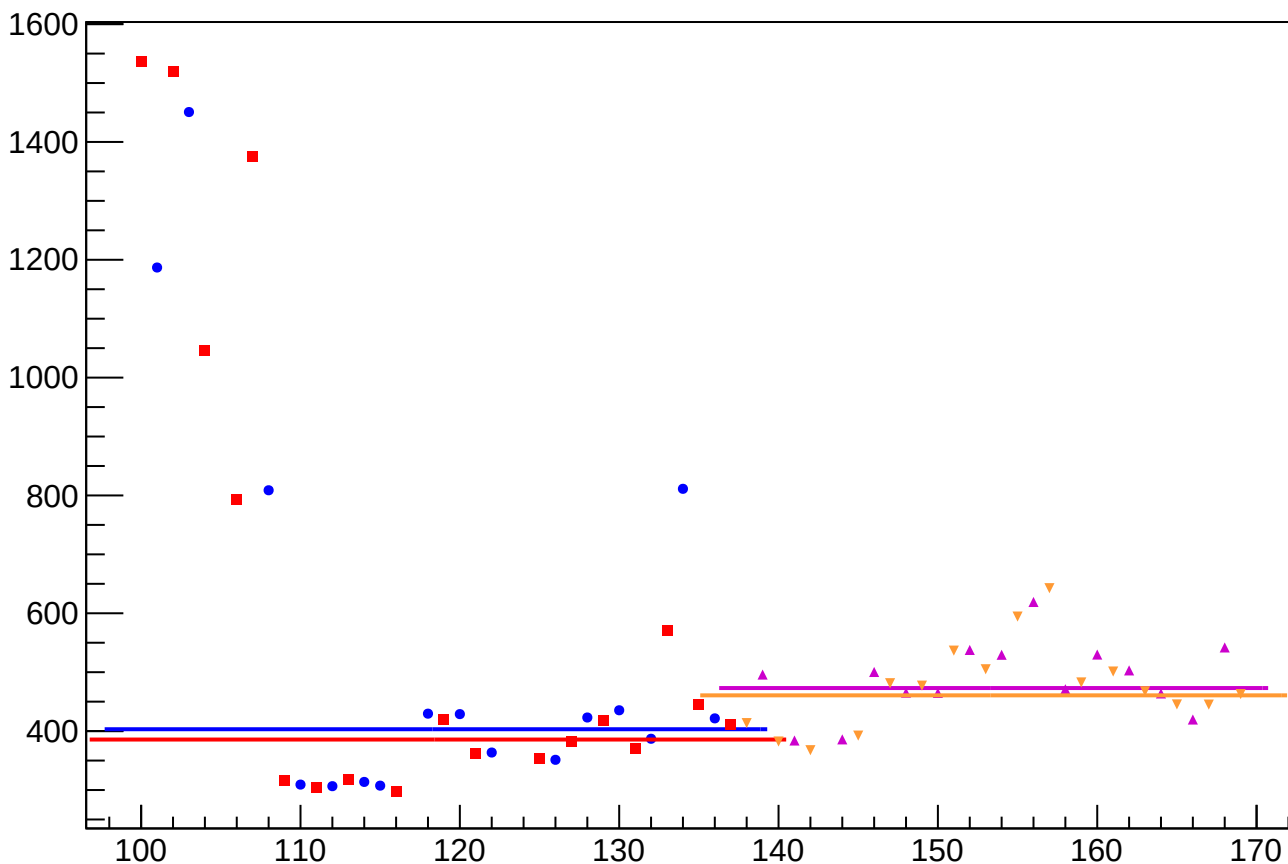
Right: 159.458+/-112.193 χ^2/NDF : 34.0/33

In: -60.616+/-103.835 χ^2/NDF : 37.6/30

Out: -197.297+/-100.612 χ^2/NDF : 55.1/33

All: -131.111+/-72.256 χ^2/NDF : 93.6/64

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 403.182+/-0.114 χ^2/NDF : 1812111.0/15

Left Out: 460.692+/-0.093 χ^2/NDF : 478578.1/15

Right Out: 385.682+/-0.110 χ^2/NDF : 1747152.2/17

Left In: 473.090+/-0.096 χ^2/NDF : 402690.9/14

Left: 466.696+/-0.067 χ^2/NDF : 889874.6/30

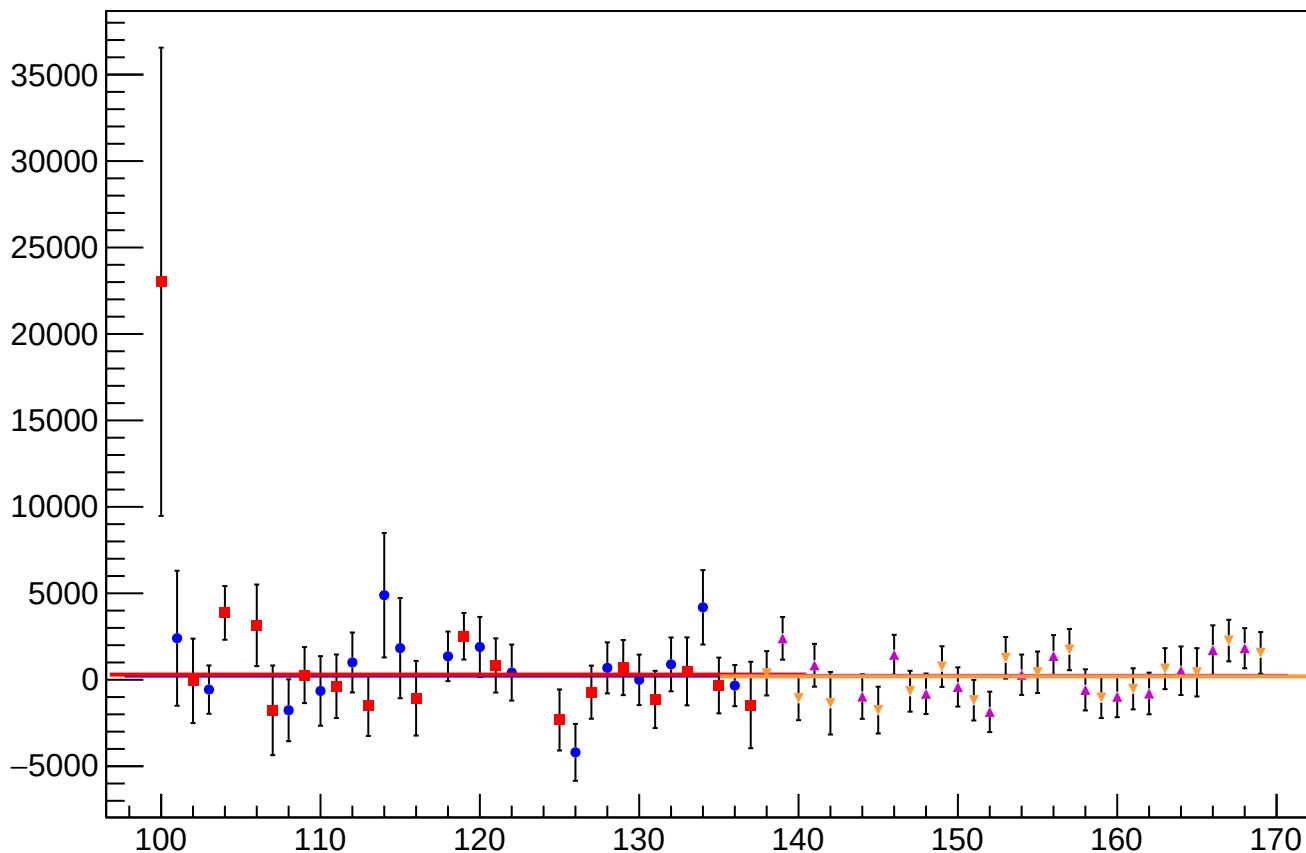
Right: 394.155+/-0.079 χ^2/NDF : 3571416.8/33

In: 444.098+/-0.073 χ^2/NDF : 2434845.6/30

Out: 429.575+/-0.071 χ^2/NDF : 2495583.4/33

All: 436.608+/-0.051 χ^2/NDF : 4950606.8/64

dit_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 240.827+/-426.592 χ^2/NDF : 17.0/15

Left Out: 194.777+/-310.593 χ^2/NDF :14.4/15

Right Out: 298.921+/-430.767 χ^2/NDF : 18.7/17

Left In: 226.383+/-313.696 χ^2/NDF :15.7/14

Left: 210.423+/-220.711 χ^2/NDF : 30.1/30

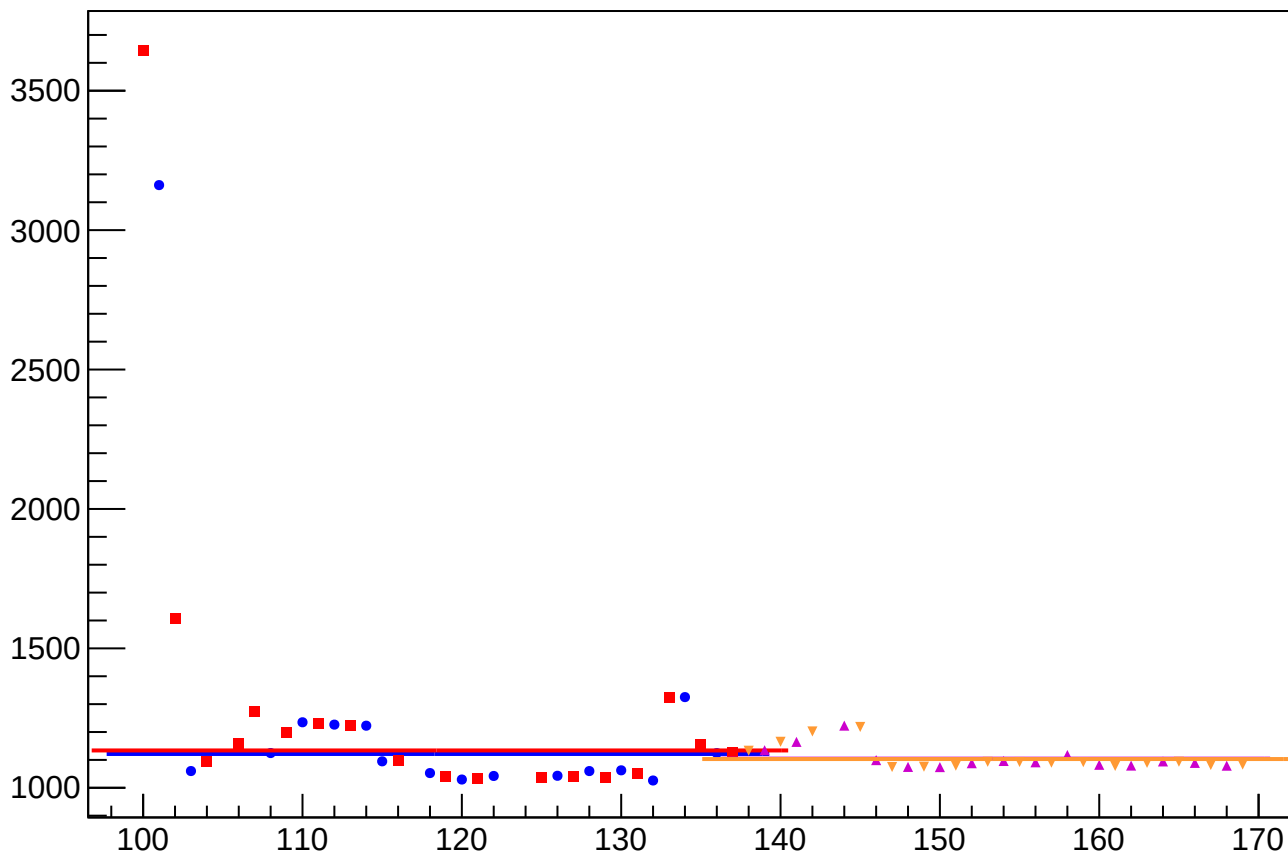
Right: 269.591+/-303.111 χ^2/NDF : 35.6/33

In: 231.452+/-252.722 χ^2/NDF :32.7/30

Out: 230.399+/-251.935 χ^2/NDF :33.1/33

All: 230.924+/-178.423 χ^2/NDF : 65.8/64

dit_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1121.294+/-0.302 χ^2/NDF : 617028.4/15

Left Out: 1103.103+/-0.220 χ^2/NDF : 32469.3/15

Right Out: 1133.929+/-0.305 χ^2/NDF : 227457.1/17

Left In: 1104.509+/-0.222 χ^2/NDF : 29334.5/14

Left: 1103.799+/-0.156 χ^2/NDF : 61824.1/30

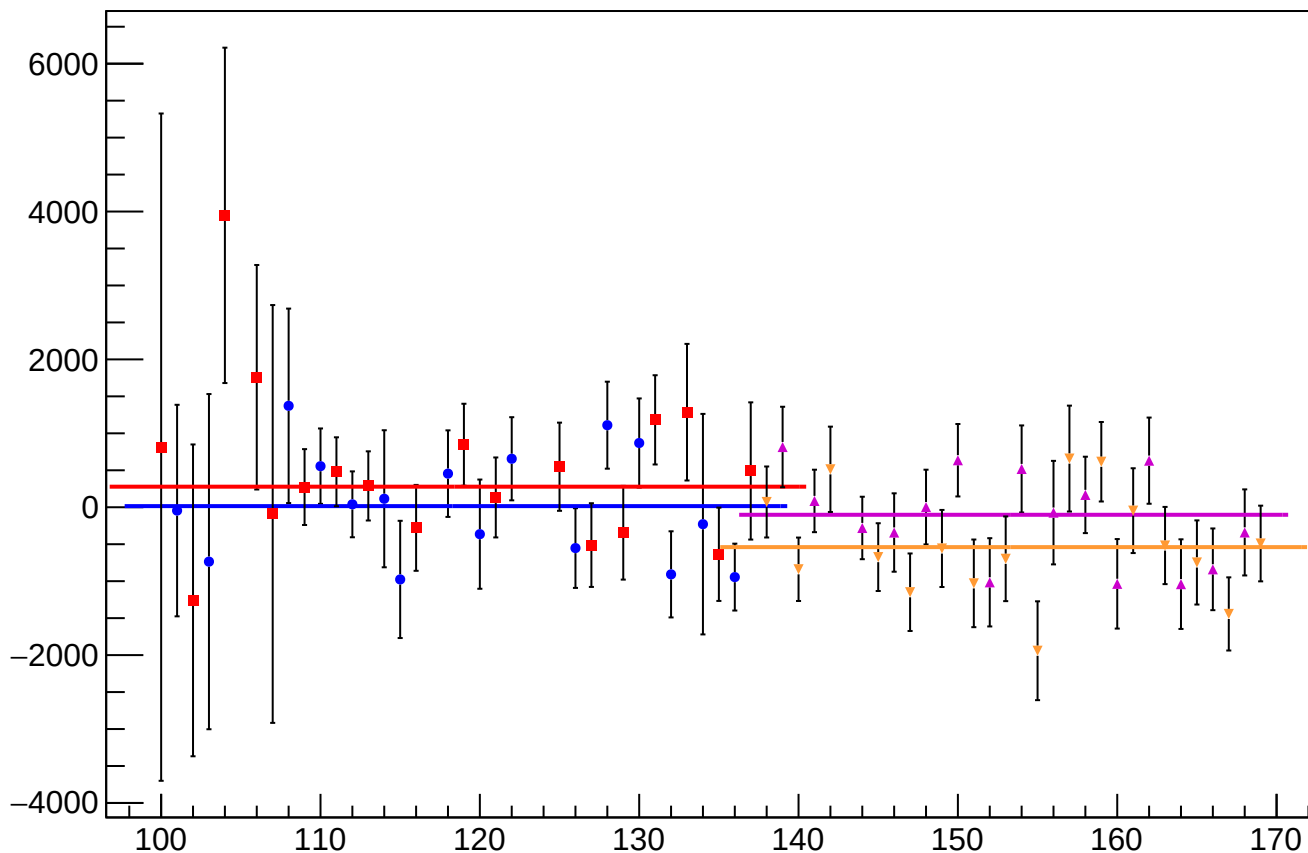
Right: 1127.550+/-0.214 χ^2/NDF : 845354.2/33

In: 1110.400+/-0.179 χ^2/NDF : 648372.6/30

Out: 1113.647+/-0.178 χ^2/NDF : 266664.9/33

All: 1112.029+/-0.126 χ^2/NDF : 915203.2/64

asym_us_dd_atlr_dd_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 15.291 ± 161.845 $\chi^2/\text{NDF}: 19.6/15$

Left Out: -539.339 ± 133.524 $\chi^2/\text{NDF}: 23.7/15$

Right Out: 278.251 ± 158.828 $\chi^2/\text{NDF}: 15.1/17$

Left In: -101.950 ± 138.264 $\chi^2/\text{NDF}: 17.7/14$

Left: -328.270 ± 96.048 $\chi^2/\text{NDF}: 46.6/30$

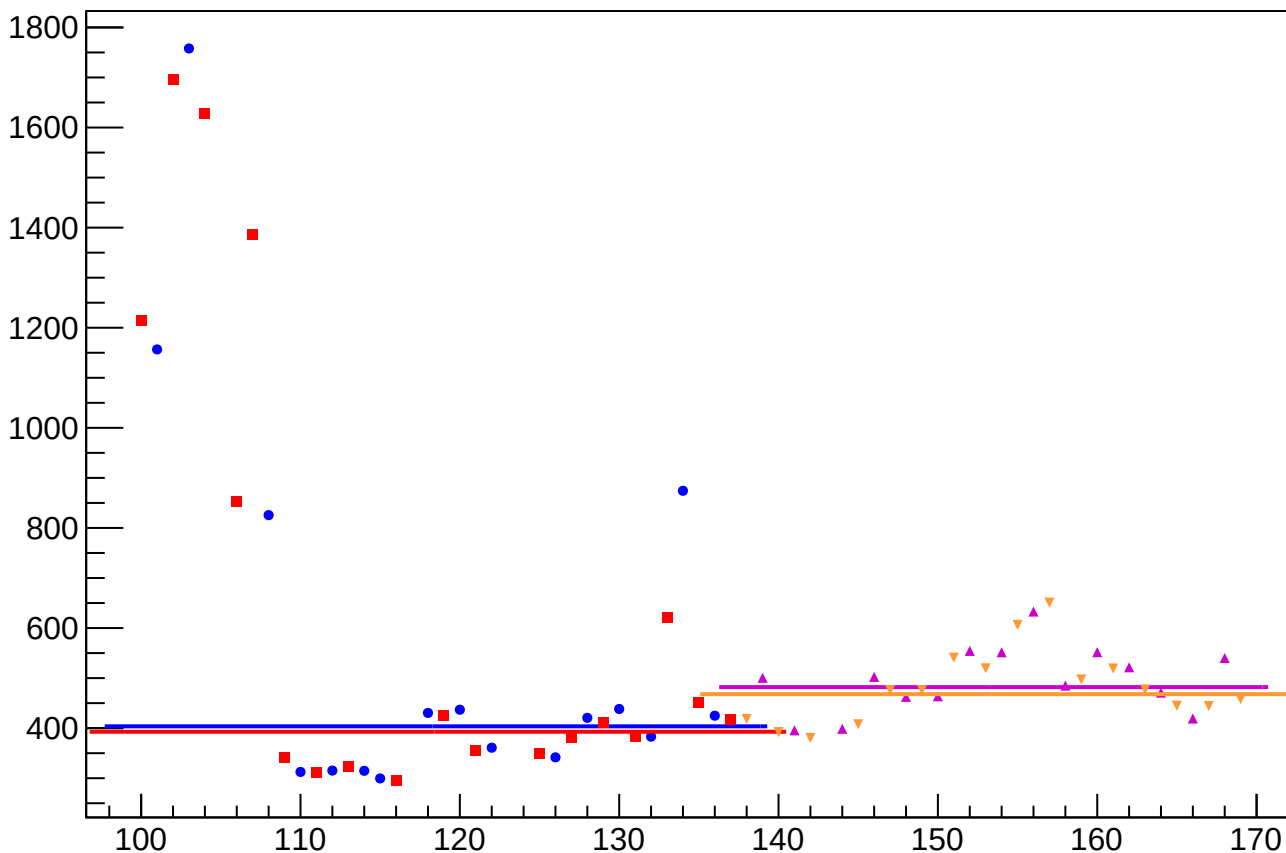
Right: 149.246 ± 113.360 $\chi^2/\text{NDF}: 36.0/33$

In: -52.485 ± 105.125 $\chi^2/\text{NDF}: 37.7/30$

Out: -200.783 ± 102.205 $\chi^2/\text{NDF}: 54.2/33$

All: -128.722 ± 73.281 $\chi^2/\text{NDF}: 92.9/64$

asym_us_dd_atlr_dd_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 403.656+/-0.114 χ^2/NDF : 1929597.5/15

Left Out: 467.929+/-0.094 χ^2/NDF : 459433.1/15

Right Out: 392.820+/-0.112 χ^2/NDF : 2203456.1/17

Left In: 482.025+/-0.098 χ^2/NDF : 404860.3/14

Left: 474.731+/-0.068 χ^2/NDF : 875049.2/30

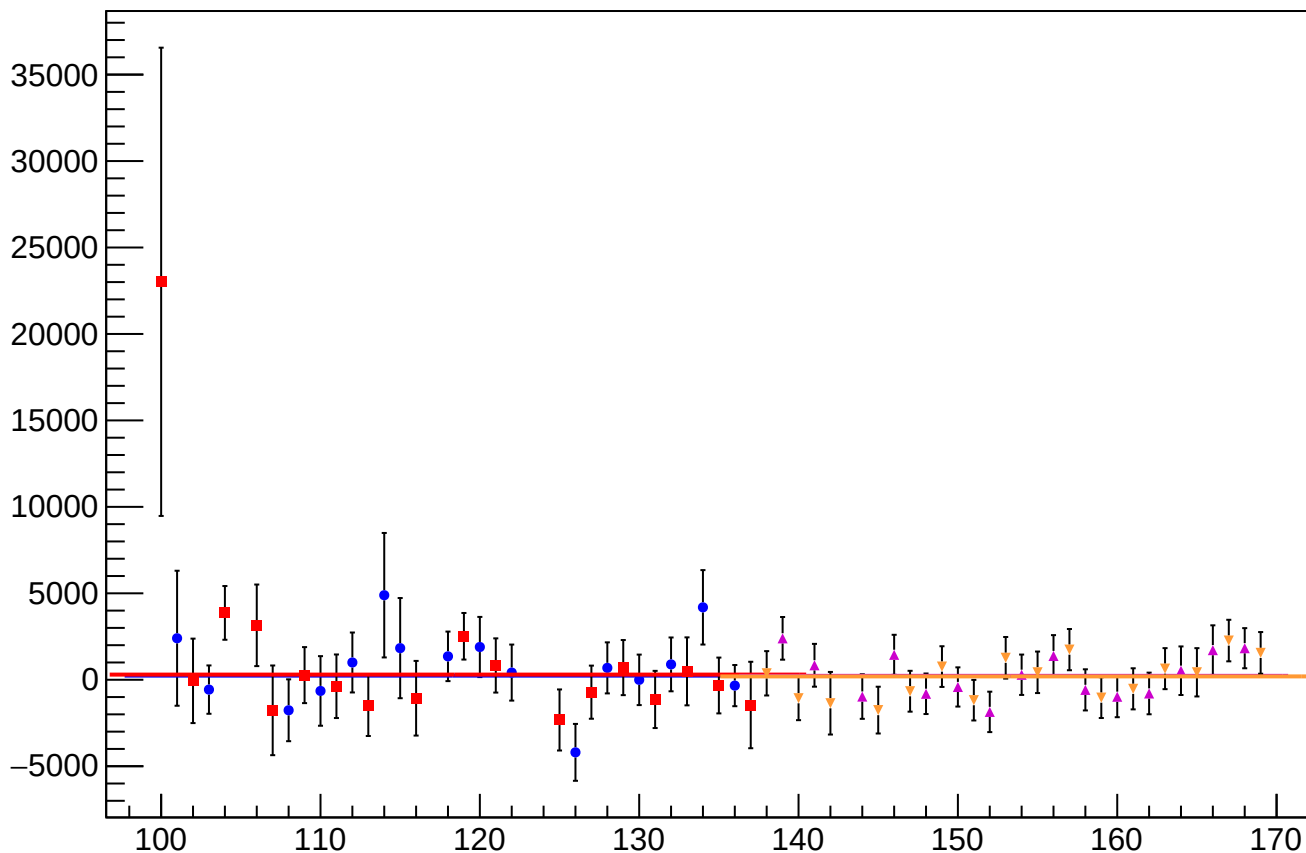
Right: 398.136+/-0.080 χ^2/NDF : 4137620.1/33

In: 448.961+/-0.074 χ^2/NDF : 2605551.6/30

Out: 436.827+/-0.072 χ^2/NDF : 2924943.3/33

All: 442.723+/-0.052 χ^2/NDF : 5544191.0/64

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 240.829 $\pm$ 426.592 χ^2 /NDF: 17.0/15

Left Out: 194.773 $\pm$ 310.593 χ^2 /NDF:14.4/15

Right Out: 298.922 $\pm$ 430.767 χ^2 /NDF: 18.7/17

Left In: 226.384 $\pm$ 313.696 χ^2 /NDF:15.7/14

Left: 210.422 $\pm$ 220.711 χ^2 /NDF: 30.1/30

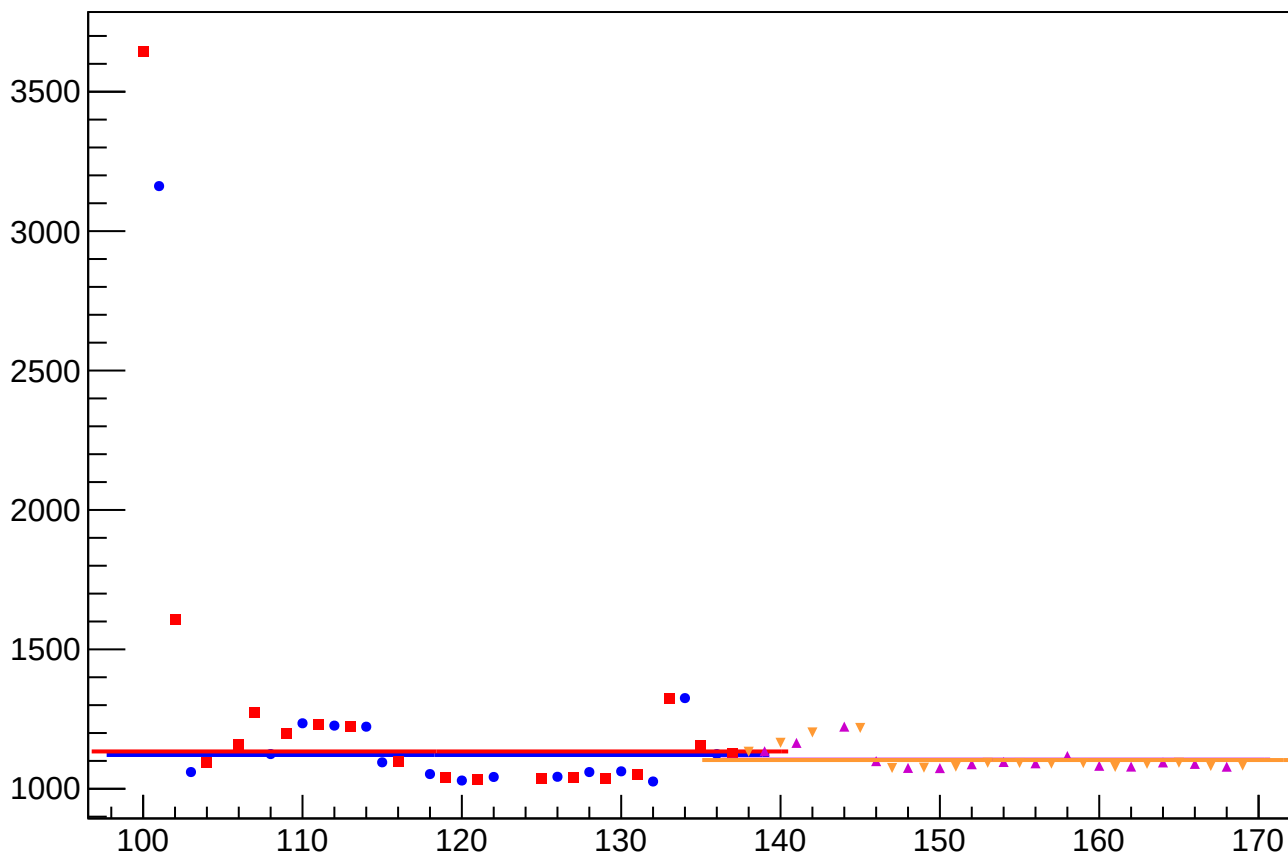
Right: 269.593 $\pm$ 303.111 χ^2 /NDF: 35.6/33

In: 231.454 $\pm$ 252.722 χ^2 /NDF:32.7/30

Out: 230.398 $\pm$ 251.935 χ^2 /NDF:33.1/33

All: 230.924 $\pm$ 178.423 χ^2 /NDF: 65.8/64

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1121.294 ± 0.302 χ^2/NDF : 617028.4/15

Left Out: 1103.104 ± 0.220 χ^2/NDF : 32469.4/15

Right Out: 1133.929 ± 0.305 χ^2/NDF : 227457.1/17

Left In: 1104.509 ± 0.222 χ^2/NDF : 29334.6/14

Left: 1103.799 ± 0.156 χ^2/NDF : 61824.3/30

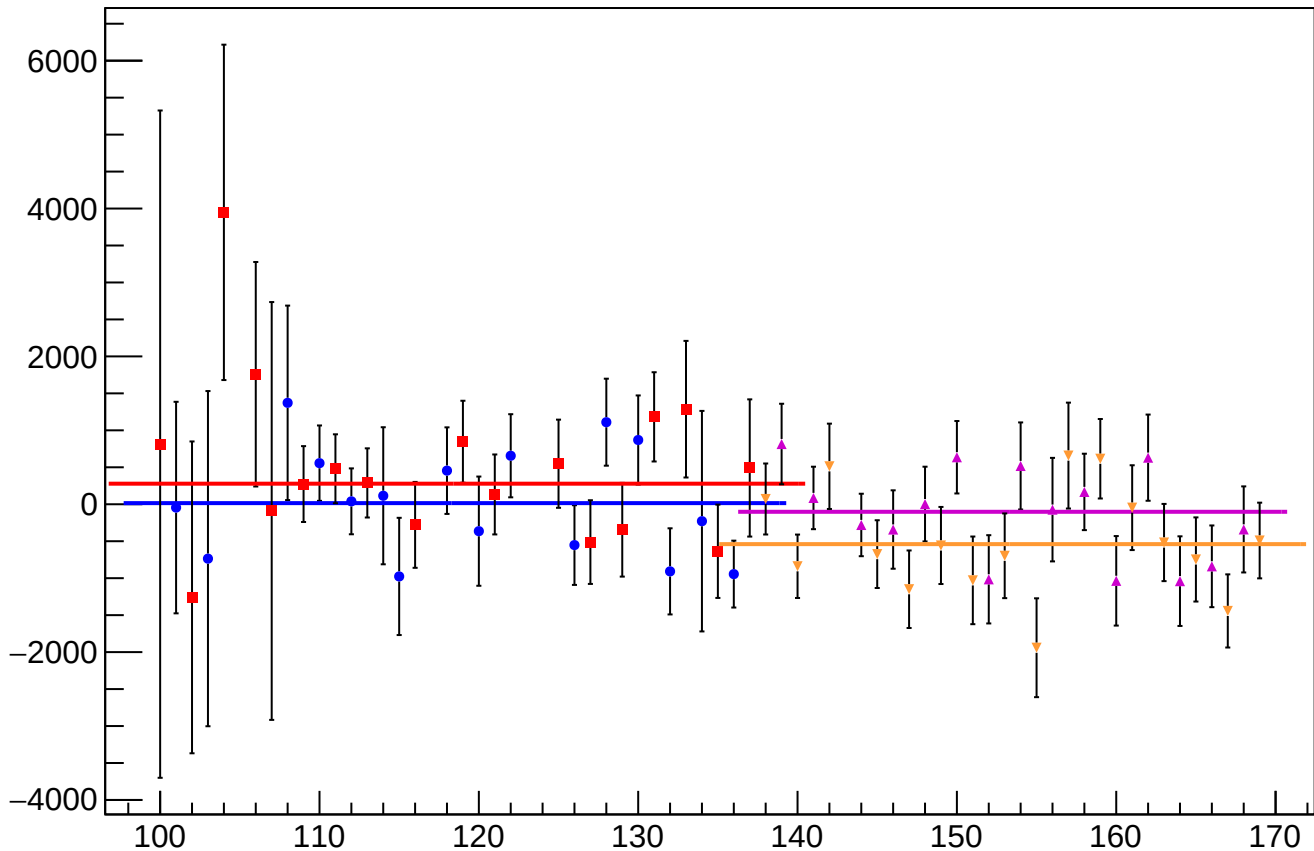
Right: 1127.550 ± 0.214 χ^2/NDF : 845354.2/33

In: 1110.400 ± 0.179 χ^2/NDF : 648372.7/30

Out: 1113.648 ± 0.178 χ^2/NDF : 266665.0/33

All: 1112.029 ± 0.126 χ^2/NDF : 915203.4/64

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 15.288 $\pm$ 161.844 χ^2/NDF : 19.6/15

Left Out: -539.342 $\pm$ 133.524 χ^2/NDF :23.7/15

Right Out: 278.249 $\pm$ 158.826 χ^2/NDF : 15.1/17

Left In: -101.950 $\pm$ 138.264 χ^2/NDF :17.7/14

Left: -328.272 $\pm$ 96.048 χ^2/NDF : 46.6/30

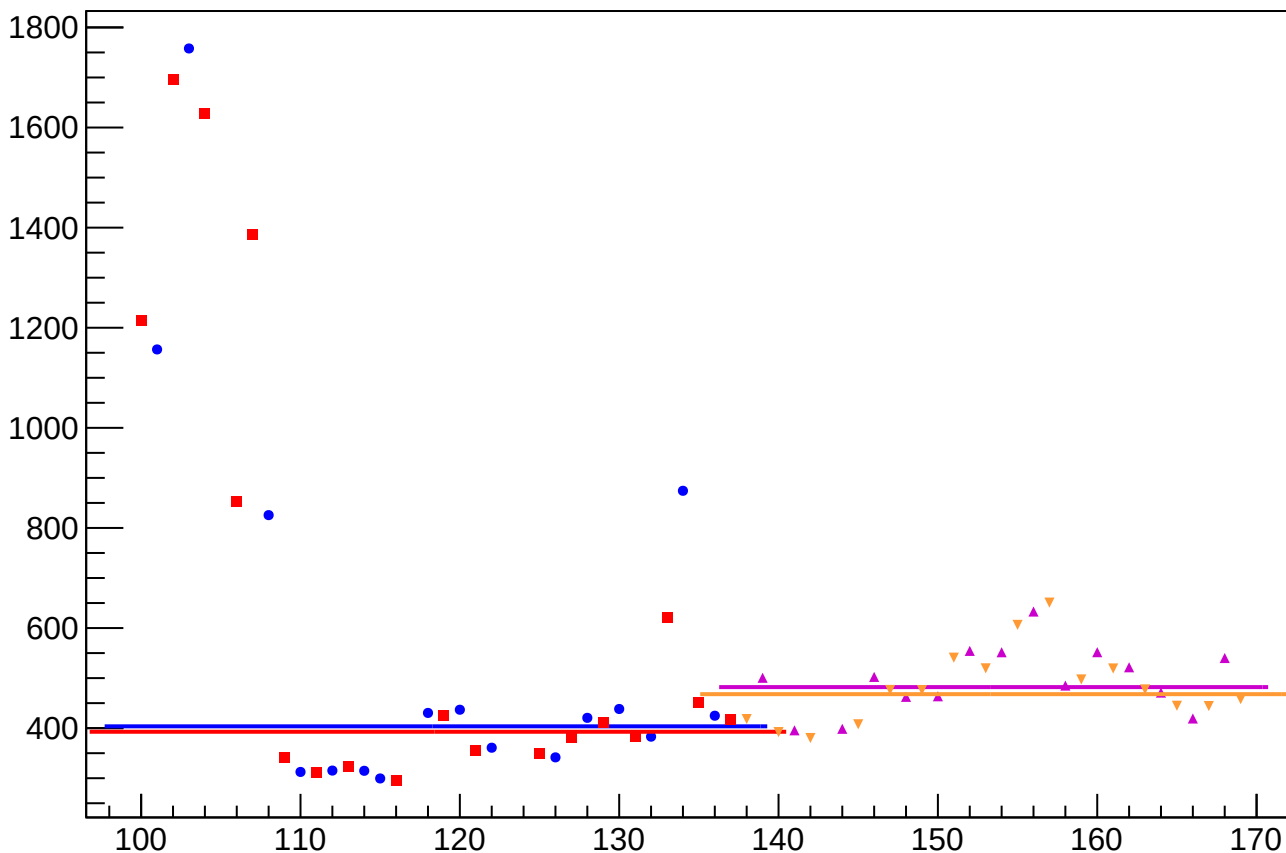
Right: 149.243 $\pm$ 113.359 χ^2/NDF : 36.0/33

In: -52.486 $\pm$ 105.125 χ^2/NDF :37.7/30

Out: -200.782 $\pm$ 102.205 χ^2/NDF :54.2/33

All: -128.722 $\pm$ 73.281 χ^2/NDF : 92.9/64

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 403.653+/-0.114 χ^2/NDF : 1929594.3/15

Left Out: 467.929+/-0.094 χ^2/NDF : 459456.0/15

Right Out: 392.817+/-0.112 χ^2/NDF : 2203462.7/17

Left In: 482.026+/-0.098 χ^2/NDF : 404870.0/14

Left: 474.732+/-0.068 χ^2/NDF : 875083.0/30

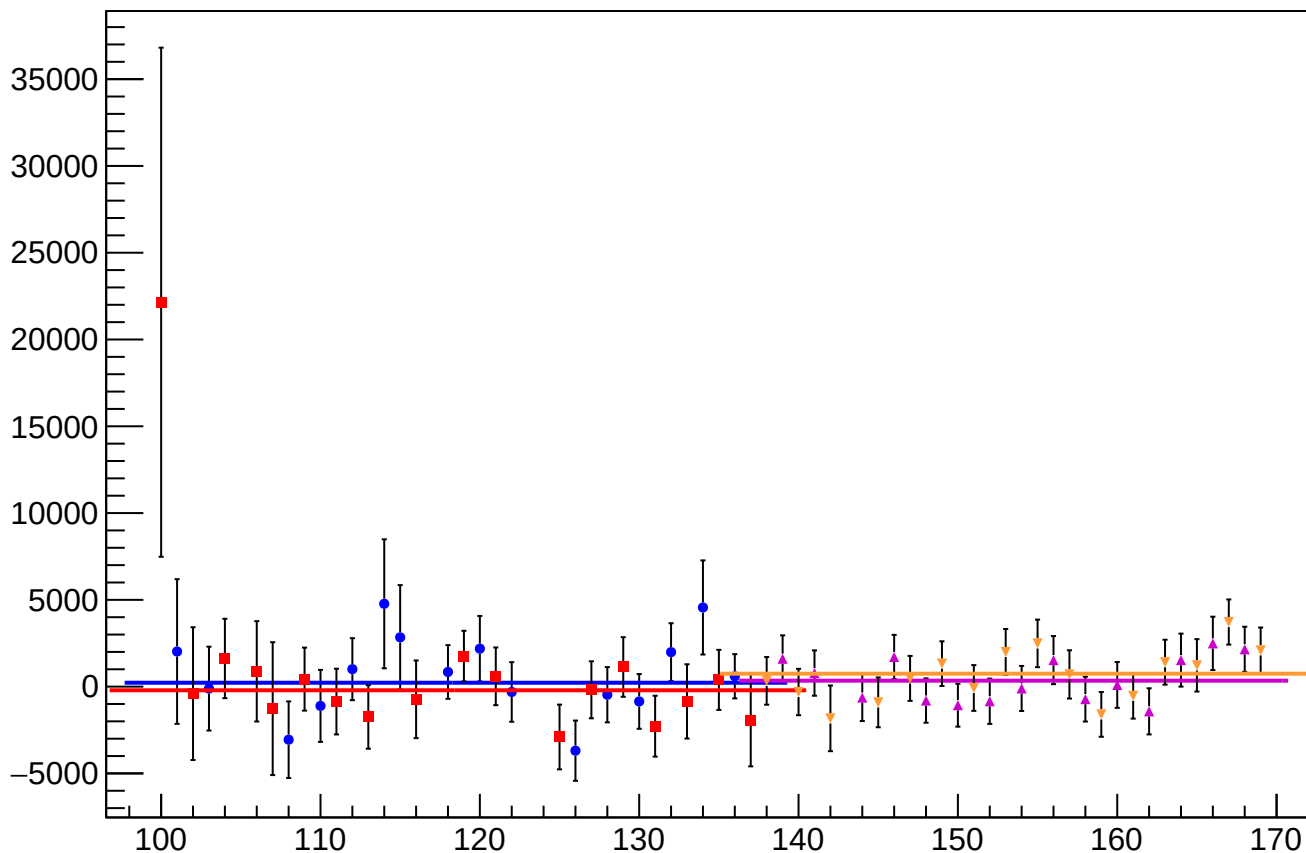
Right: 398.133+/-0.080 χ^2/NDF : 4137623.7/33

In: 448.959+/-0.074 χ^2/NDF : 2605587.0/30

Out: 436.826+/-0.072 χ^2/NDF : 2924998.0/33

All: 442.722+/-0.052 χ^2/NDF : 5544282.1/64

asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected



Right In: 224.817 $\pm$ 474.559 χ^2 /NDF: 16.1/15

Left Out: 744.463 $\pm$ 340.297 χ^2 /NDF: 17.9/15

Right Out: -209.751 $\pm$ 477.820 χ^2 /NDF: 11.0/17

Left In: 343.144 $\pm$ 343.986 χ^2 /NDF: 13.4/14

Left: 545.967 $\pm$ 241.920 χ^2 /NDF: 32.0/30

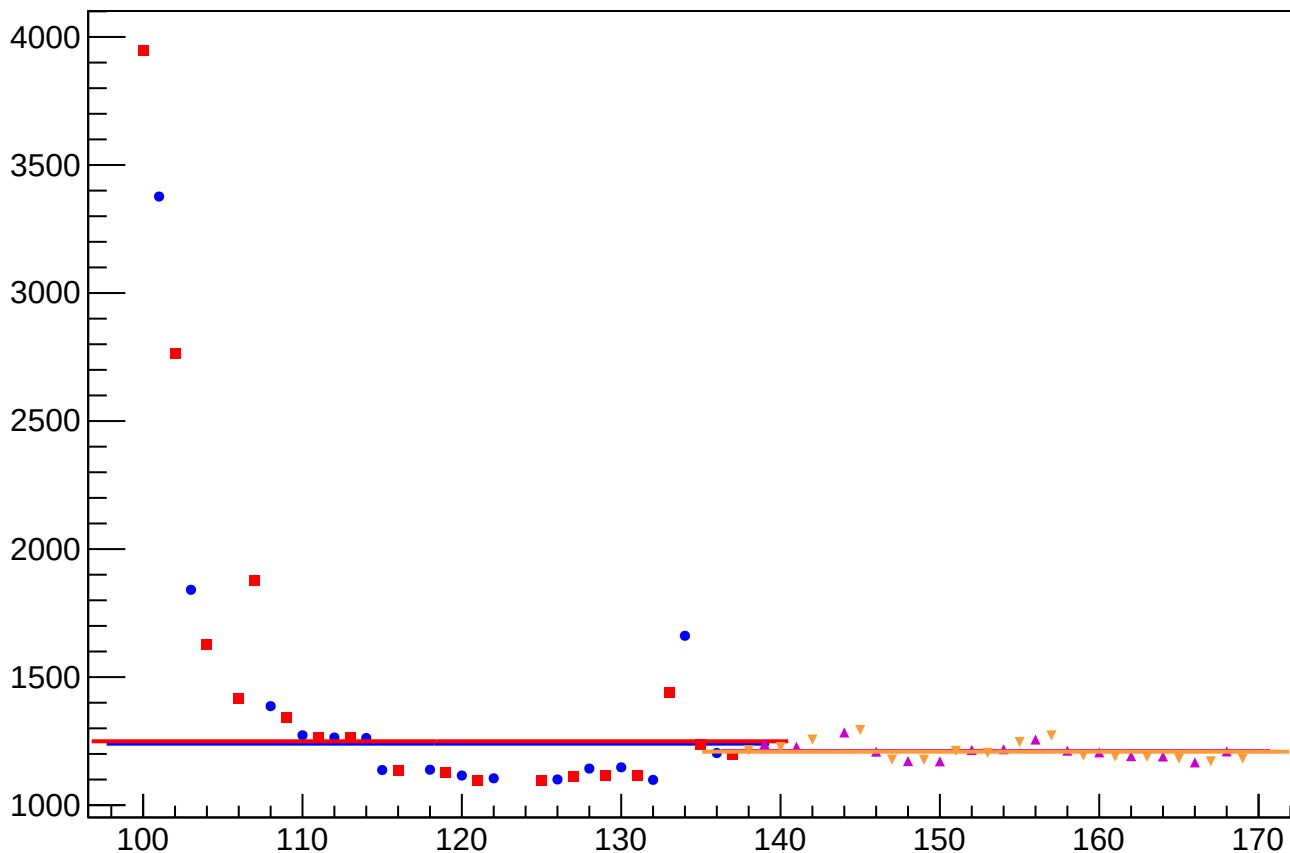
Right: 9.021 $\pm$ 336.711 χ^2 /NDF: 27.5/33

In: 302.387 $\pm$ 278.514 χ^2 /NDF: 29.6/30

Out: 423.349 $\pm$ 277.186 χ^2 /NDF: 31.5/33

All: 363.157 $\pm$ 196.468 χ^2 /NDF: 61.2/64

asym_us_dd_atlr_dd_dd_rms vs Slug, Sign Corrected



Right In: 1240.140+/-0.336 χ^2/NDF : 782679.7/15

Left Out: 1208.855+/-0.241 χ^2/NDF : 21016.4/15

Right Out: 1249.410+/-0.338 χ^2/NDF : 606099.2/17

Left In: 1211.436+/-0.243 χ^2/NDF : 15636.9/14

Left: 1210.131+/-0.171 χ^2/NDF : 36710.3/30

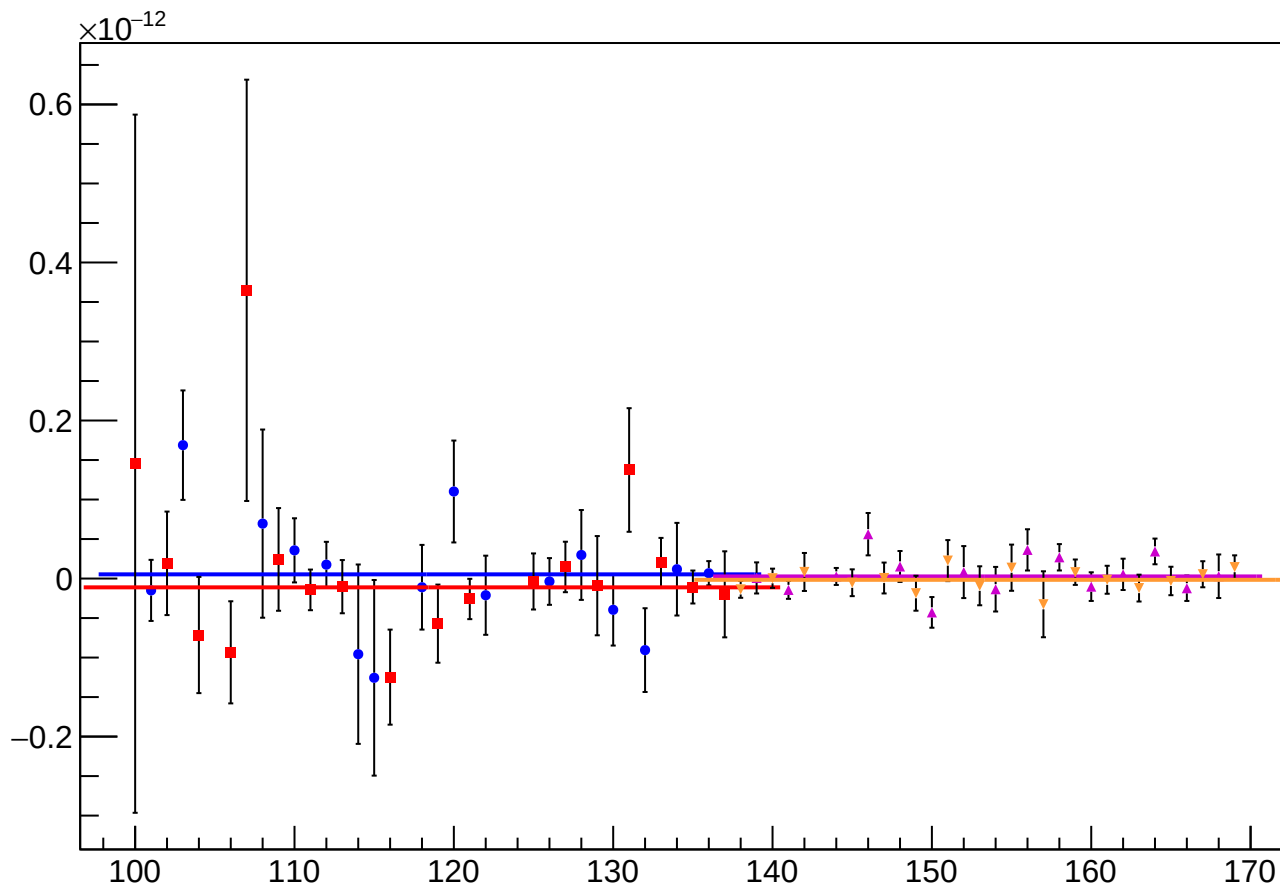
Right: 1244.743+/-0.238 χ^2/NDF : 1389157.9/33

In: 1221.323+/-0.197 χ^2/NDF : 803113.3/30

Out: 1222.503+/-0.196 χ^2/NDF : 636675.1/33

All: 1221.916+/-0.139 χ^2/NDF : 1439806.4/64

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 6.0/15

Right Out: -0.000+/-0.000 χ^2/NDF : 15.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 21.5/14

Left: 0.000+/-0.000 χ^2/NDF : 27.9/30

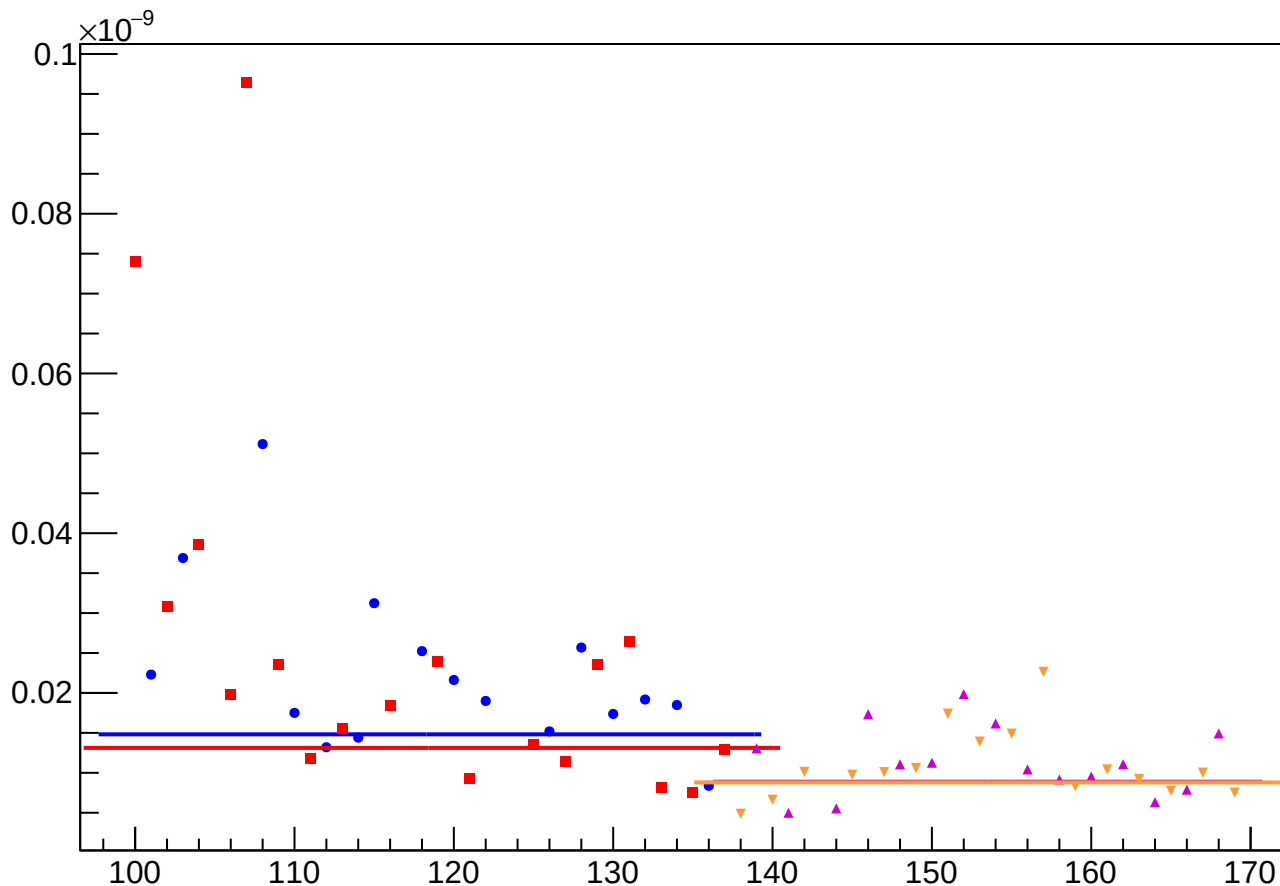
Right: -0.000+/-0.000 χ^2/NDF : 32.9/33

In: 0.000+/-0.000 χ^2/NDF : 37.9/30

Out: -0.000+/-0.000 χ^2/NDF : 21.9/33

All: -0.000+/-0.000 χ^2/NDF : 61.1/64

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1081472.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :1035644.6/15

Right Out: 0.000+/-0.000 χ^2/NDF : 1181949.6/17

Left In: 0.000+/-0.000 χ^2/NDF :1315810.4/14

Left: 0.000+/-0.000 χ^2/NDF : 2351838.4/30

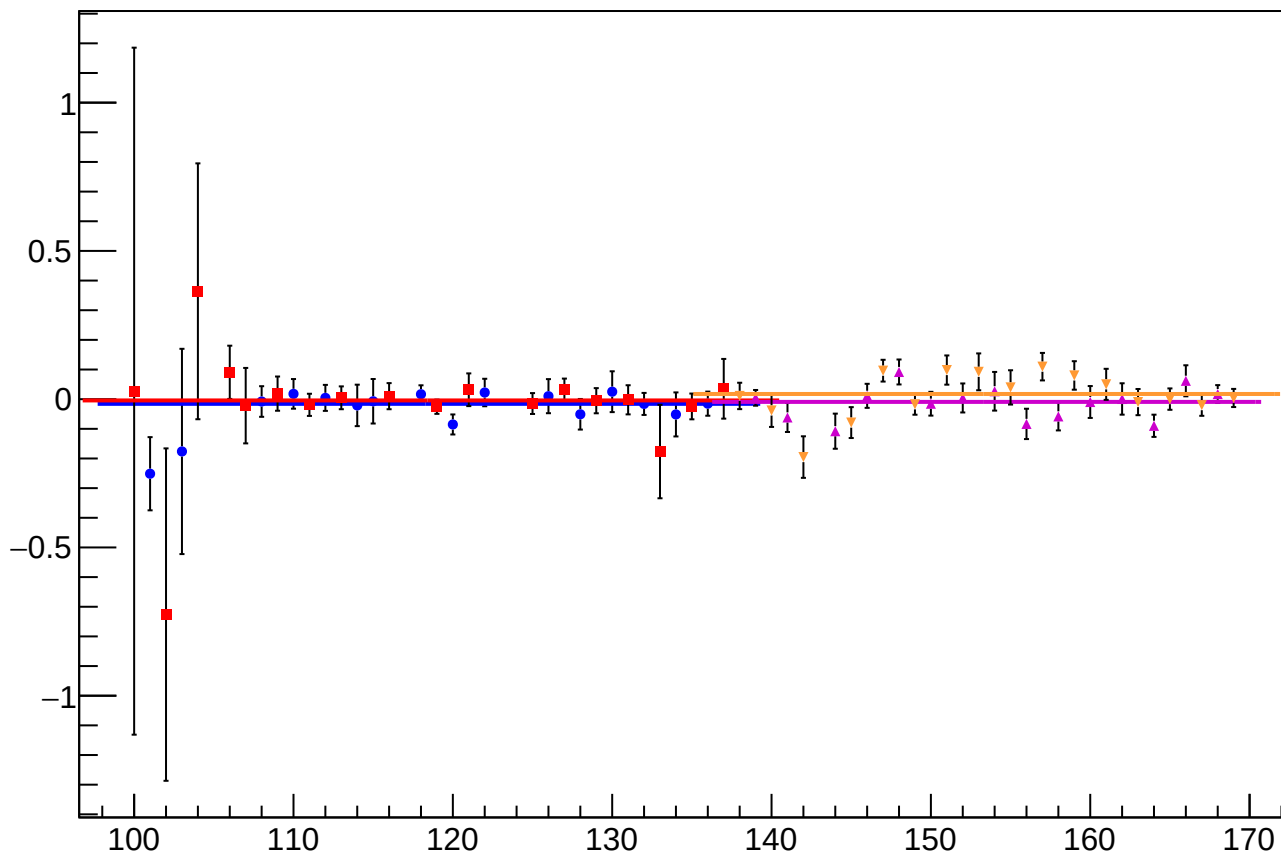
Right: 0.000+/-0.000 χ^2/NDF : 2295265.5/33

In: 0.000+/-0.000 χ^2/NDF :3013448.7/30

Out: 0.000+/-0.000 χ^2/NDF :2566769.5/33

All: 0.000+/-0.000 χ^2/NDF : 5590284.2/64

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 11.9/15

Left Out: 0.018 ± 0.011 χ^2/NDF : 31.4/15

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.009 ± 0.011 χ^2/NDF : 21.0/14

Left: 0.004 ± 0.008 χ^2/NDF : 55.4/30

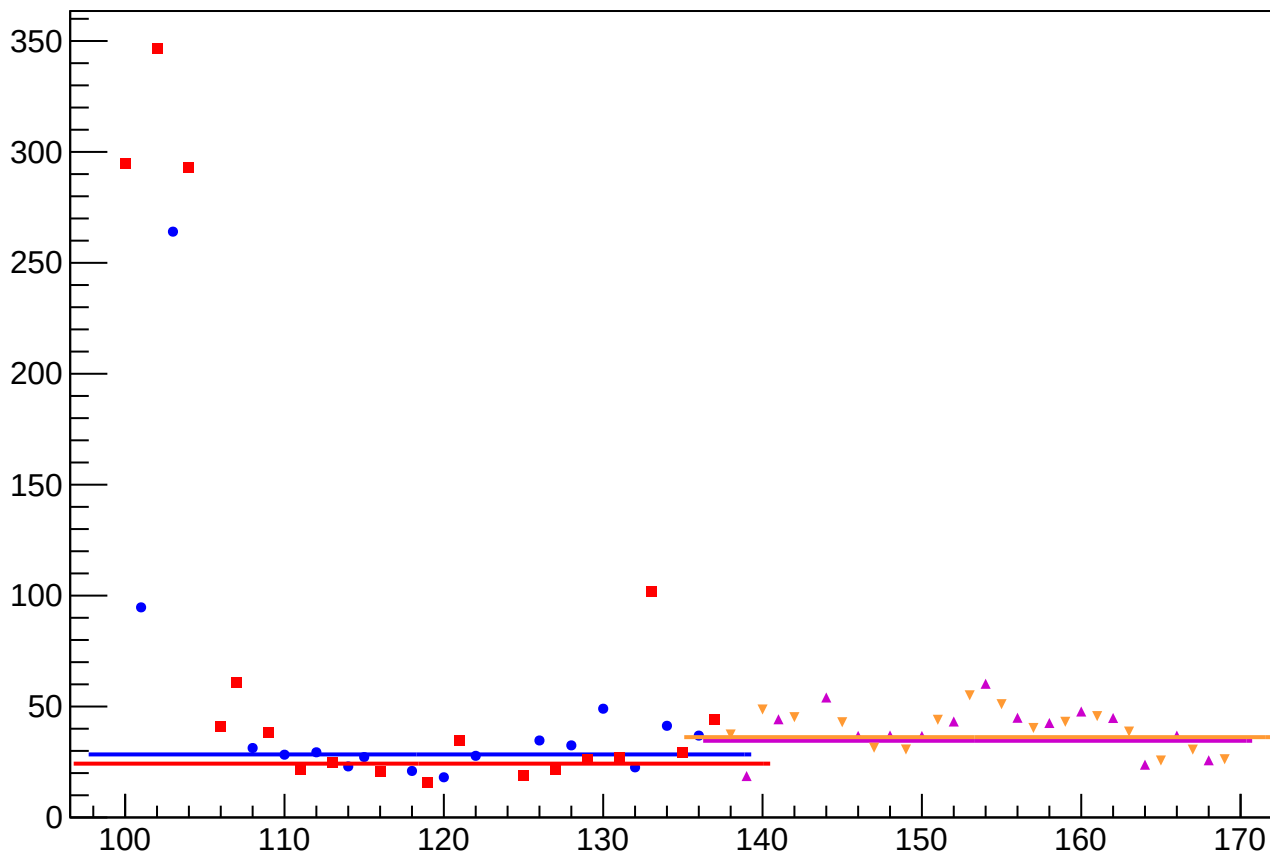
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.012 ± 0.008 χ^2/NDF : 33.1/30

Out: 0.007 ± 0.008 χ^2/NDF : 41.2/33

All: -0.002 ± 0.006 χ^2/NDF : 77.1/64

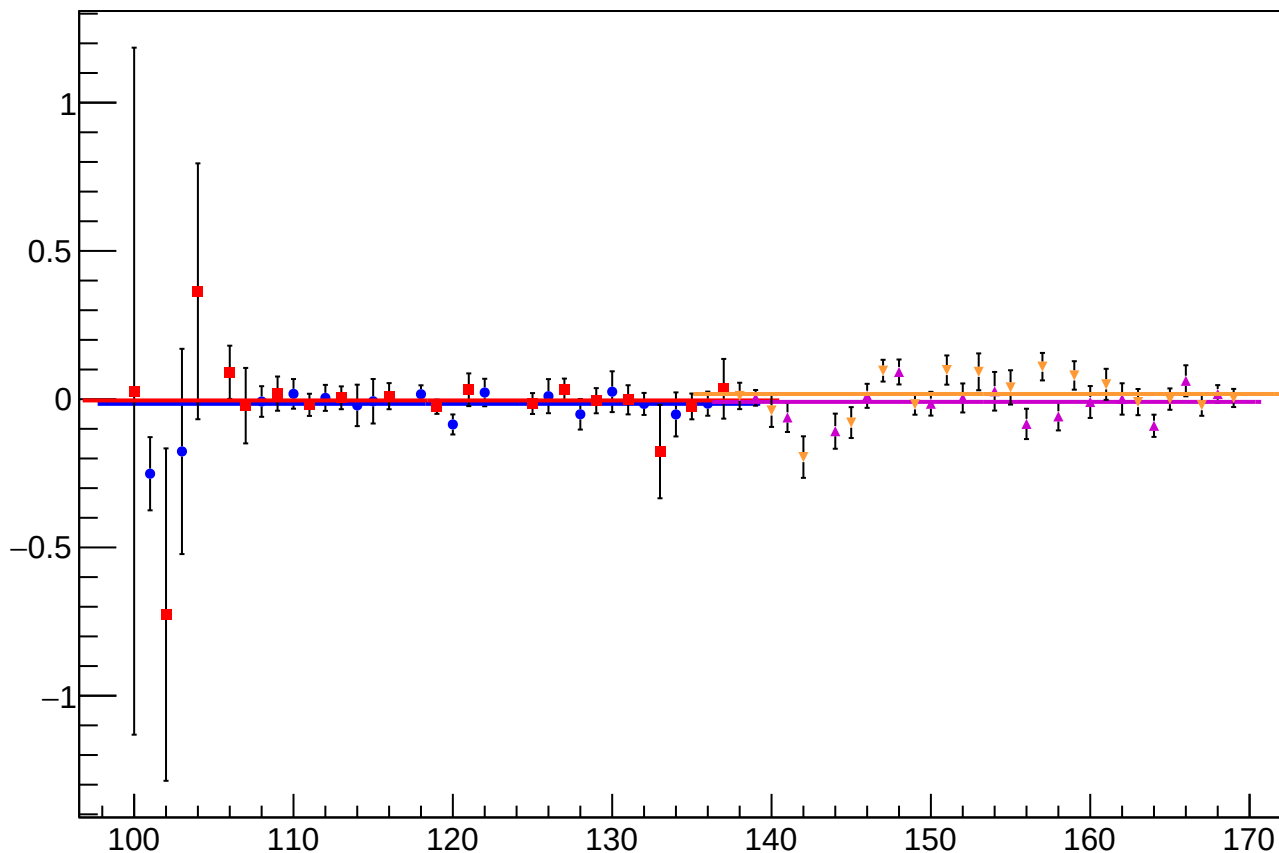
asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 28.411 ± 0.009 $\chi^2/\text{NDF}: 2245642.8/15$
 Left Out: 36.199 ± 0.008 $\chi^2/\text{NDF}: 1179349.6/15$
 Right Out: 24.255 ± 0.008 $\chi^2/\text{NDF}: 2913469.3/17$
 Left In: 34.565 ± 0.008 $\chi^2/\text{NDF}: 2082264.3/14$

Left: 35.383 ± 0.005 $\chi^2/\text{NDF}: 3283774.0/30$
 Right: 26.181 ± 0.006 $\chi^2/\text{NDF}: 5281459.7/33$
 In: 31.835 ± 0.006 $\chi^2/\text{NDF}: 4606134.1/30$
 Out: 30.476 ± 0.006 $\chi^2/\text{NDF}: 5228716.2/33$
 All: 31.132 ± 0.004 $\chi^2/\text{NDF}: 9863281.5/64$

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 11.9/15

Left Out: 0.018 ± 0.011 χ^2/NDF : 31.4/15

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.009 ± 0.011 χ^2/NDF : 21.0/14

Left: 0.004 ± 0.008 χ^2/NDF : 55.4/30

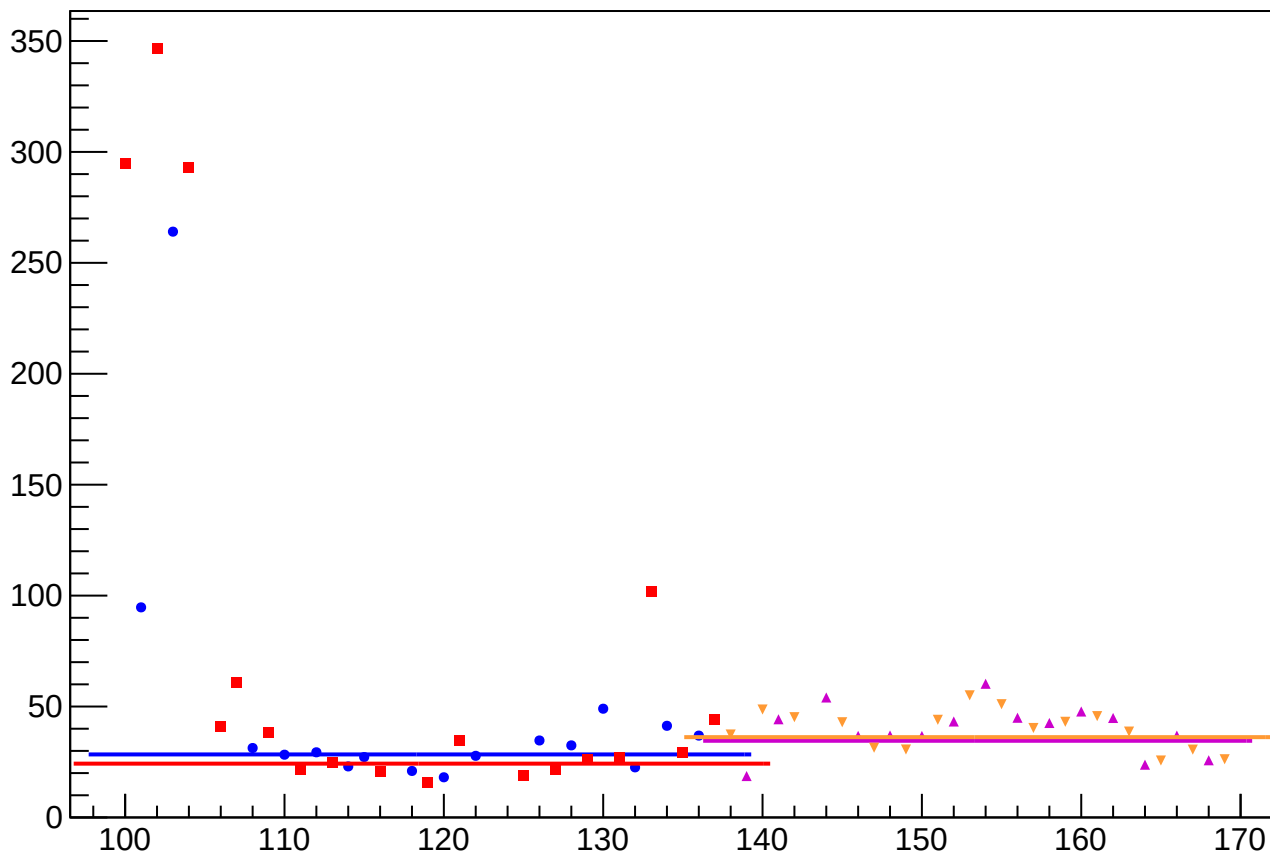
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.012 ± 0.008 χ^2/NDF : 33.1/30

Out: 0.007 ± 0.008 χ^2/NDF : 41.2/33

All: -0.002 ± 0.006 χ^2/NDF : 77.1/64

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 28.411+/-0.009 χ^2/NDF : 2245642.8/15

Left Out: 36.199+/-0.008 χ^2/NDF : 1179349.6/15

Right Out: 24.255+/-0.008 χ^2/NDF : 2913469.3/17

Left In: 34.565+/-0.008 χ^2/NDF : 2082264.3/14

Left: 35.383+/-0.005 χ^2/NDF : 3283774.0/30

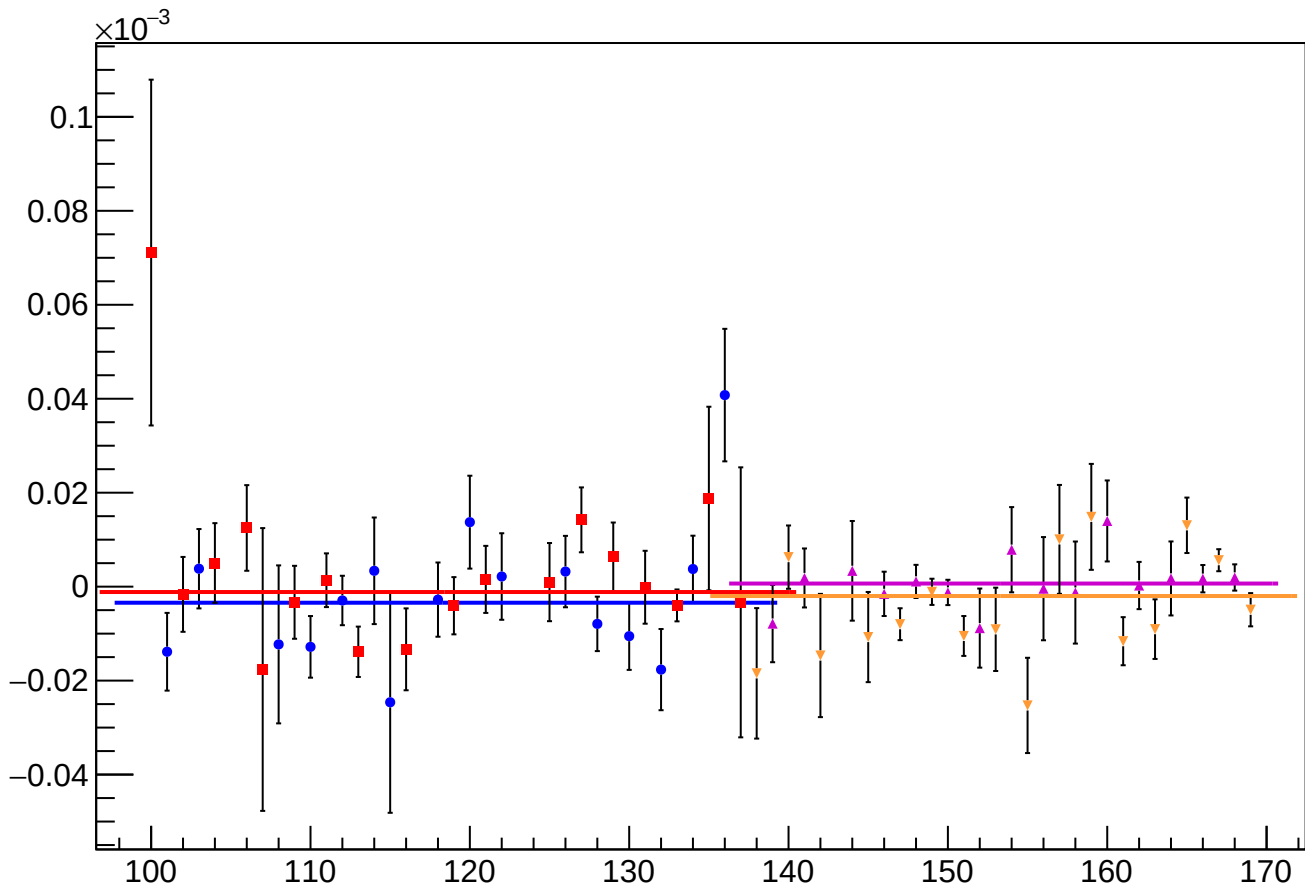
Right: 26.181+/-0.006 χ^2/NDF : 5281459.7/33

In: 31.835+/-0.006 χ^2/NDF : 4606134.1/30

Out: 30.476+/-0.006 χ^2/NDF : 5228716.2/33

All: 31.132+/-0.004 χ^2/NDF : 9863281.5/64

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 25.1/15

Left Out: -0.000+/-0.000 χ^2/NDF : 43.7/15

Right Out: -0.000+/-0.000 χ^2/NDF : 23.0/17

Left In: 0.000+/-0.000 χ^2/NDF : 6.6/14

Left: -0.000+/-0.000 χ^2/NDF : 52.7/30

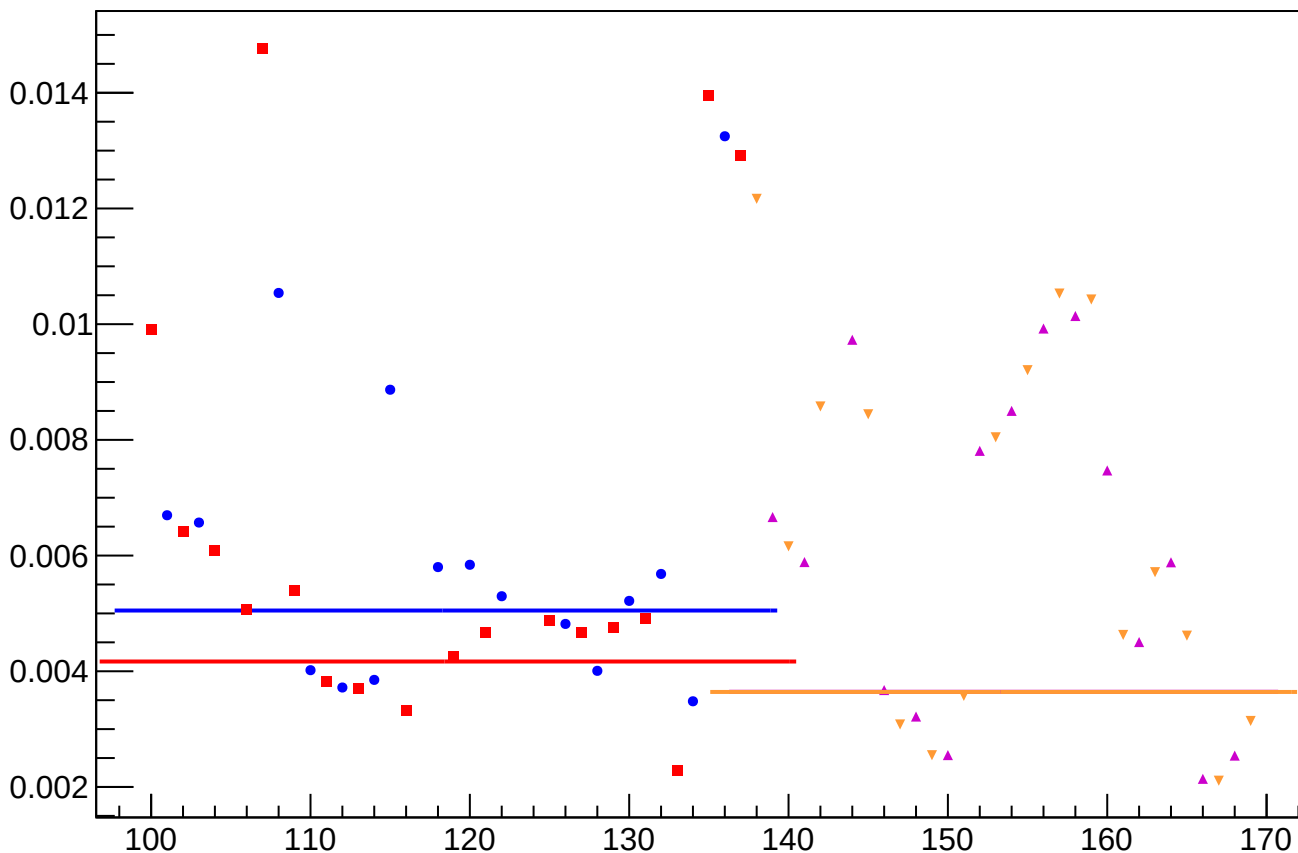
Right: -0.000+/-0.000 χ^2/NDF : 48.9/33

In: -0.000+/-0.000 χ^2/NDF : 34.7/30

Out: -0.000+/-0.000 χ^2/NDF : 66.8/33

All: -0.000+/-0.000 χ^2/NDF : 102.3/64

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1494215.1/15

Left Out: 0.004+/-0.000 χ^2/NDF : 5941551.7/15

Right Out: 0.004+/-0.000 χ^2/NDF : 2041975.6/17

Left In: 0.004+/-0.000 χ^2/NDF : 5434245.6/14

Left: 0.004+/-0.000 χ^2/NDF : 11375802.1/30

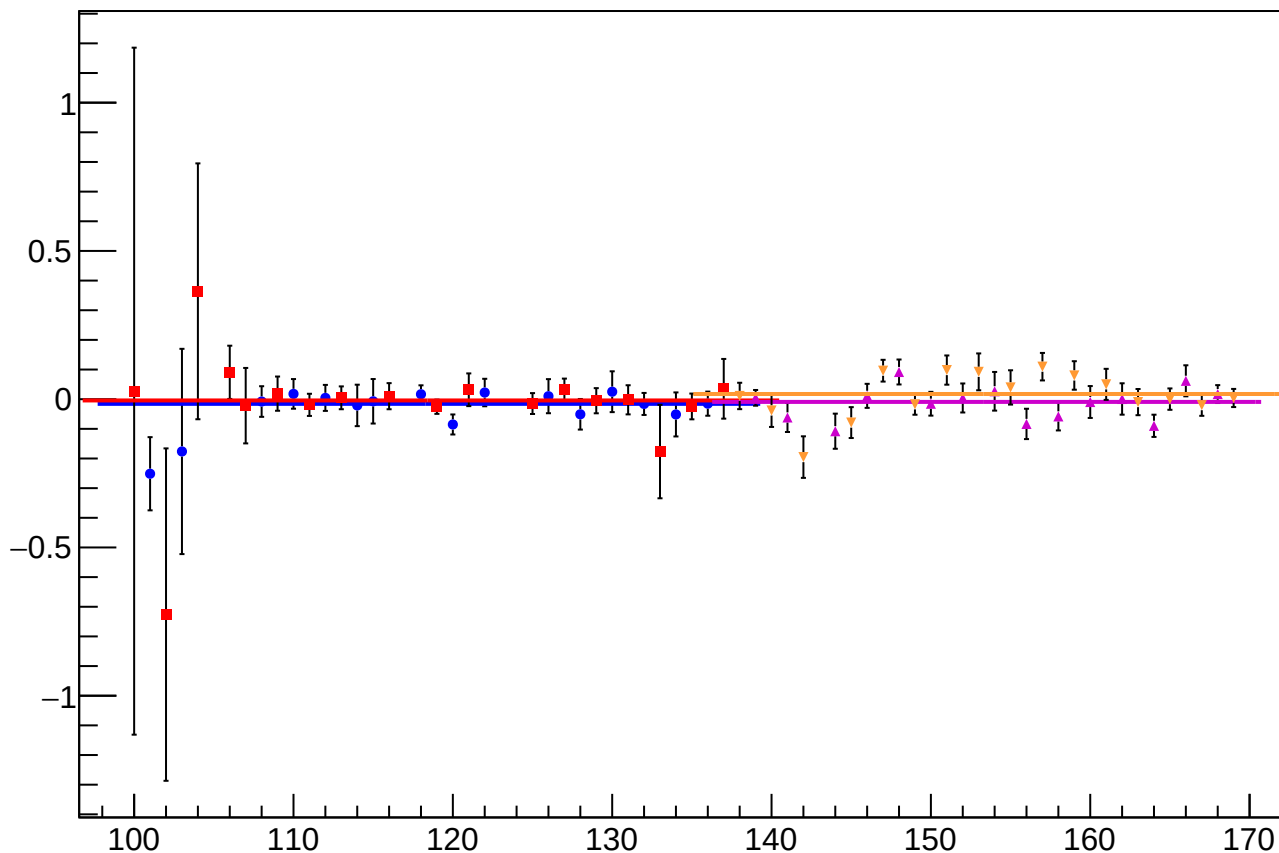
Right: 0.005+/-0.000 χ^2/NDF : 3758667.6/33

In: 0.004+/-0.000 χ^2/NDF : 7634508.4/30

Out: 0.004+/-0.000 χ^2/NDF : 8112216.2/33

All: 0.004+/-0.000 χ^2/NDF : 15787605.5/64

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 11.9/15

Left Out: 0.018 ± 0.011 χ^2/NDF : 31.4/15

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.009 ± 0.011 χ^2/NDF : 21.0/14

Left: 0.004 ± 0.008 χ^2/NDF : 55.4/30

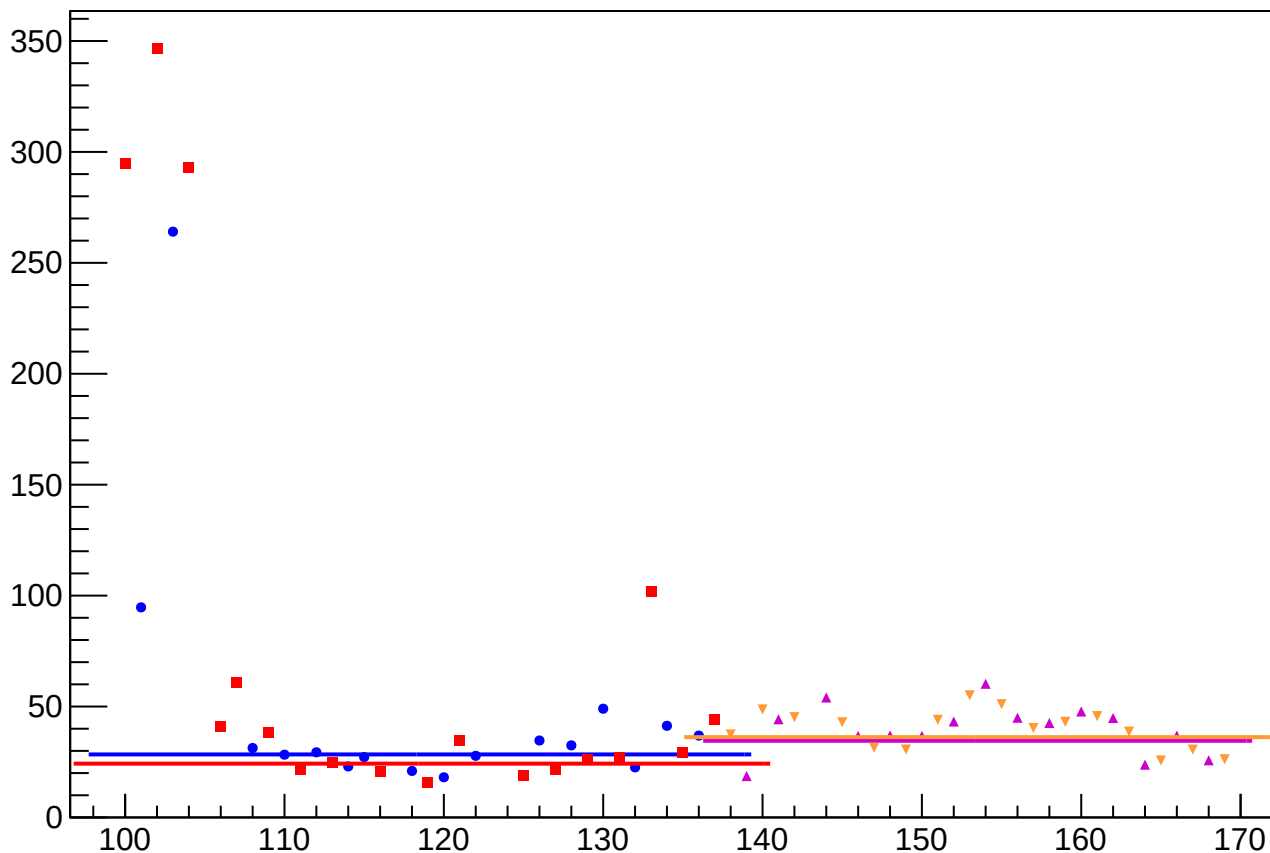
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.012 ± 0.008 χ^2/NDF : 33.1/30

Out: 0.007 ± 0.008 χ^2/NDF : 41.2/33

All: -0.002 ± 0.006 χ^2/NDF : 77.1/64

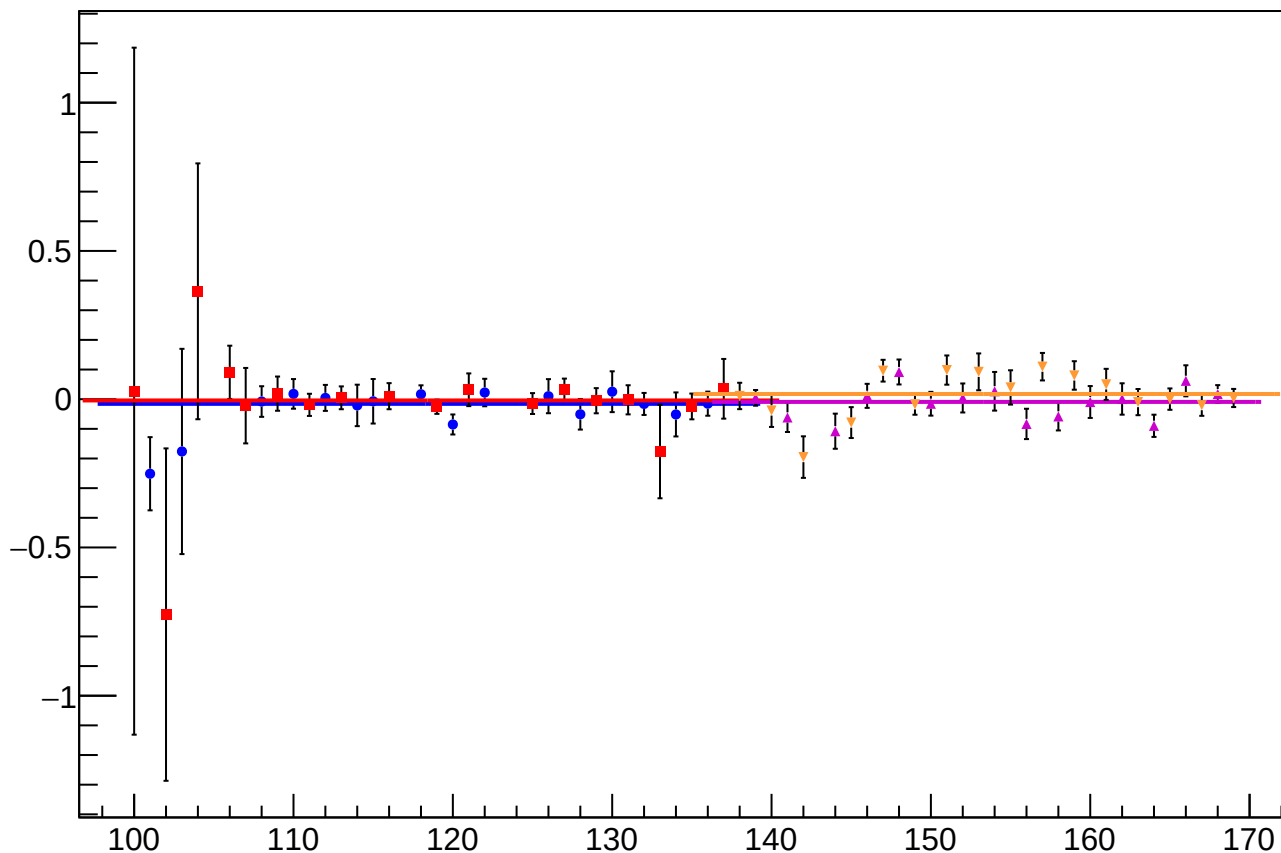
asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 28.411 $\pm$ 0.009 χ^2 /NDF: 2245663.3/15
 Left Out: 36.199 $\pm$ 0.008 χ^2 /NDF: 1179525.7/15
 Right Out: 24.254 $\pm$ 0.008 χ^2 /NDF: 2913710.0/17
 Left In: 34.564 $\pm$ 0.008 χ^2 /NDF: 2082676.3/14

Left: 35.383 $\pm$ 0.005 χ^2 /NDF: 3284358.5/30
 Right: 26.180 $\pm$ 0.006 χ^2 /NDF: 5281817.4/33
 In: 31.835 $\pm$ 0.006 χ^2 /NDF: 4606547.7/30
 Out: 30.475 $\pm$ 0.006 χ^2 /NDF: 5229415.1/33
 All: 31.132 $\pm$ 0.004 χ^2 /NDF: 9864438.8/64

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.016 ± 0.012 χ^2/NDF : 11.9/15

Left Out: 0.018 ± 0.011 χ^2/NDF : 31.4/15

Right Out: -0.004 ± 0.011 χ^2/NDF : 7.9/17

Left In: -0.009 ± 0.011 χ^2/NDF : 21.0/14

Left: 0.004 ± 0.008 χ^2/NDF : 55.4/30

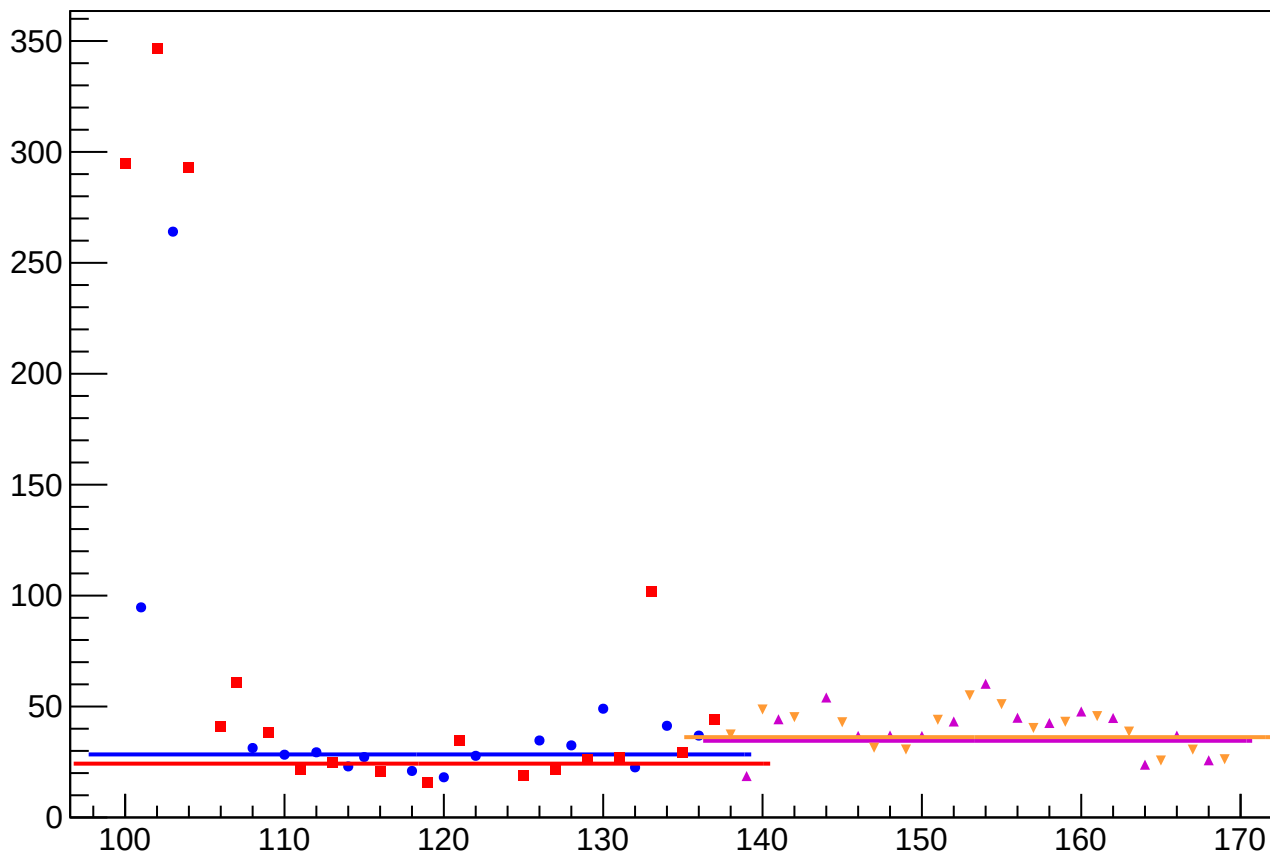
Right: -0.010 ± 0.008 χ^2/NDF : 20.2/33

In: -0.012 ± 0.008 χ^2/NDF : 33.1/30

Out: 0.007 ± 0.008 χ^2/NDF : 41.2/33

All: -0.002 ± 0.006 χ^2/NDF : 77.1/64

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 28.411+/-0.009 χ^2/NDF : 2245663.3/15

Left Out: 36.199+/-0.008 χ^2/NDF : 1179525.7/15

Right Out: 24.254+/-0.008 χ^2/NDF : 2913710.0/17

Left In: 34.564+/-0.008 χ^2/NDF : 2082676.3/14

Left: 35.383+/-0.005 χ^2/NDF : 3284358.5/30

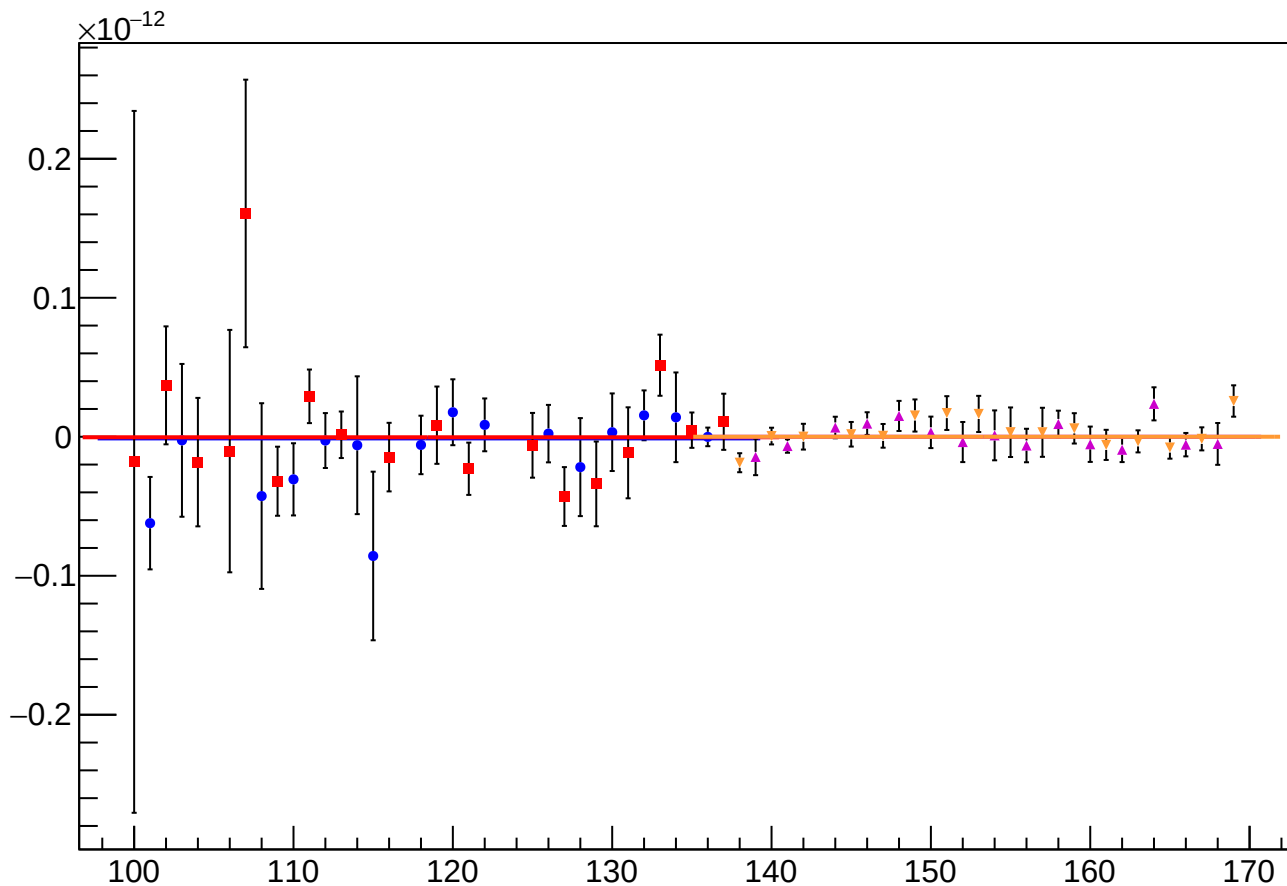
Right: 26.180+/-0.006 χ^2/NDF : 5281817.4/33

In: 31.835+/-0.006 χ^2/NDF : 4606547.7/30

Out: 30.475+/-0.006 χ^2/NDF : 5229415.1/33

All: 31.132+/-0.004 χ^2/NDF : 9864438.8/64

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 9.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :19.8/15

Right Out: -0.000+/-0.000 χ^2/NDF : 21.1/17

Left In: -0.000+/-0.000 χ^2/NDF :14.2/14

Left: 0.000+/-0.000 χ^2/NDF : 34.1/30

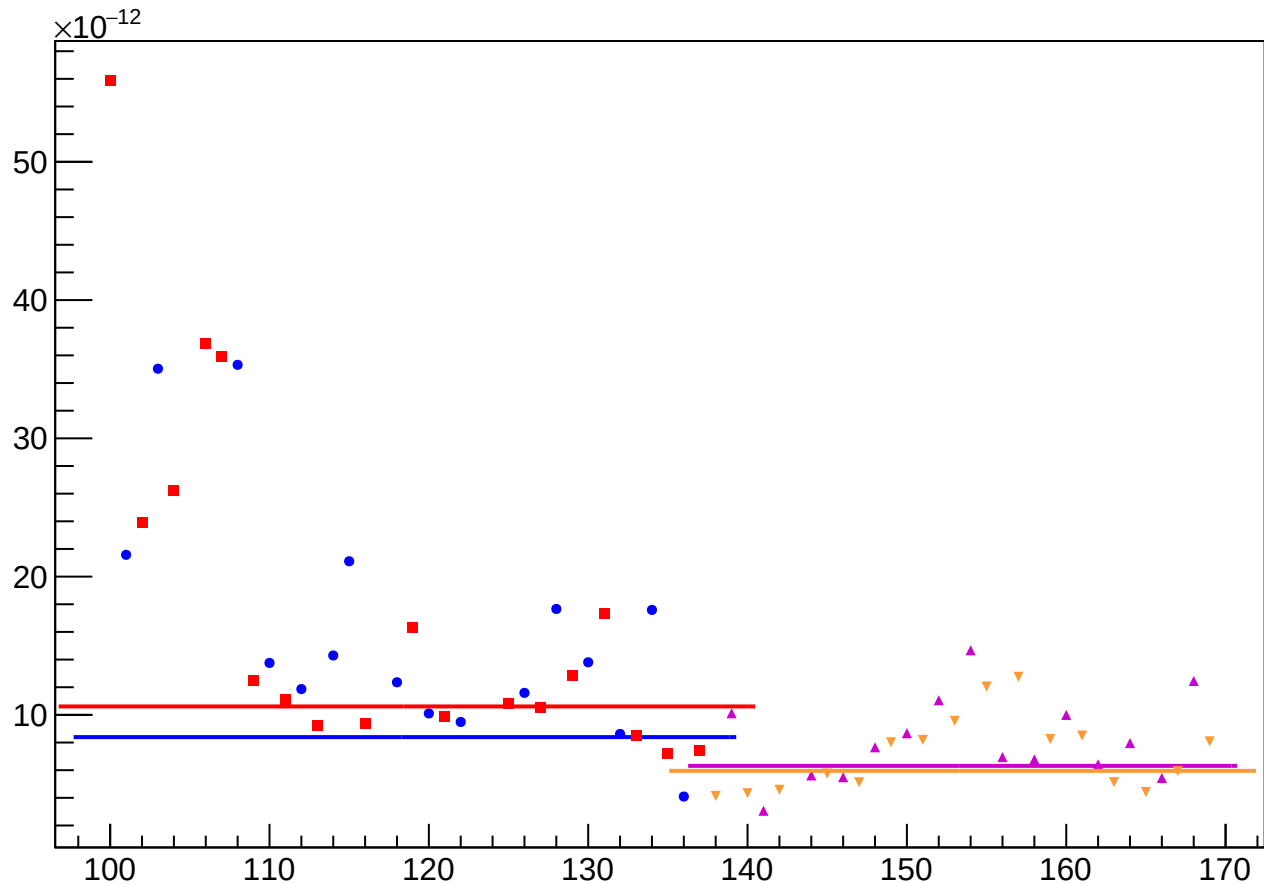
Right: -0.000+/-0.000 χ^2/NDF : 30.5/33

In: -0.000+/-0.000 χ^2/NDF :23.7/30

Out: -0.000+/-0.000 χ^2/NDF :40.9/33

All: -0.000+/-0.000 χ^2/NDF : 64.6/64

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2710106.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :1530989.3/15

Right Out: 0.000+/-0.000 χ^2/NDF : 1233909.7/17

Left In: 0.000+/-0.000 χ^2/NDF :2434843.4/14

Left: 0.000+/-0.000 χ^2/NDF : 3988484.4/30

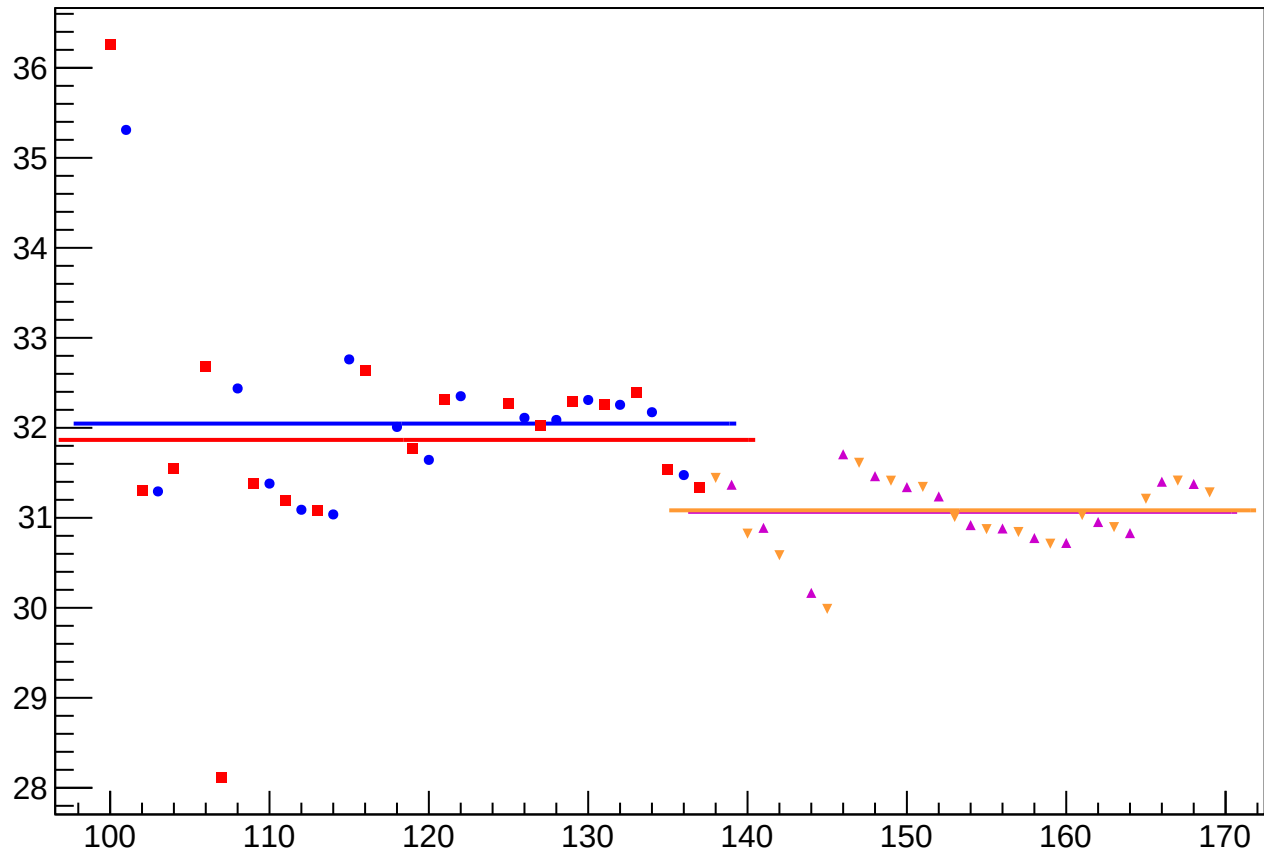
Right: 0.000+/-0.000 χ^2/NDF : 4124908.8/33

In: 0.000+/-0.000 χ^2/NDF :5444851.2/30

Out: 0.000+/-0.000 χ^2/NDF :3938686.2/33

All: 0.000+/-0.000 χ^2/NDF : 9386149.8/64

yield_usl_mean vs Slug, Sign Corrected



Right In: 32.047+/-0.000 χ^2/NDF : 898593424.6/15

Left Out: 31.083+/-0.000 χ^2/NDF : 244605774.8/15

Right Out: 31.866+/-0.000 χ^2/NDF : 485941075.6/17

Left In: 31.067+/-0.000 χ^2/NDF : 245742490.5/14

Left: 31.075+/-0.000 χ^2/NDF : 490594107.6/30

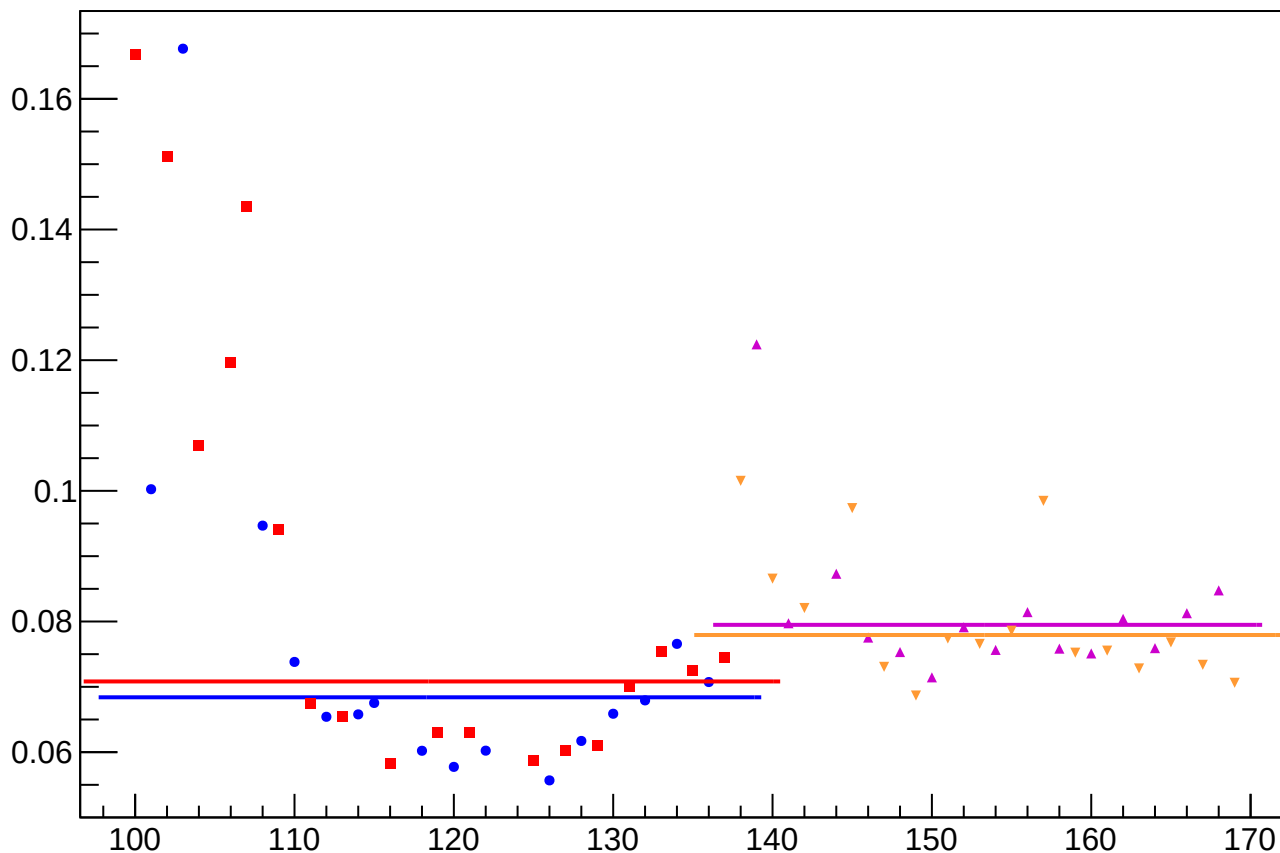
Right: 31.960+/-0.000 χ^2/NDF : 1405663241.1/33

In: 31.491+/-0.000 χ^2/NDF : 1873820904.9/30

Out: 31.397+/-0.000 χ^2/NDF : 1186536856.1/33

All: 31.444+/-0.000 χ^2/NDF : 3074089432.8/66

yield_usl_rms vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.000 χ^2 /NDF: 703207.9/15

Left Out: 0.078 $\pm$ 0.000 χ^2 /NDF:281552.6/15

Right Out: 0.071 $\pm$ 0.000 χ^2 /NDF: 868237.4/17

Left In: 0.079 $\pm$ 0.000 χ^2 /NDF:256393.8/14

Left: 0.079 $\pm$ 0.000 χ^2 /NDF: 542311.9/30

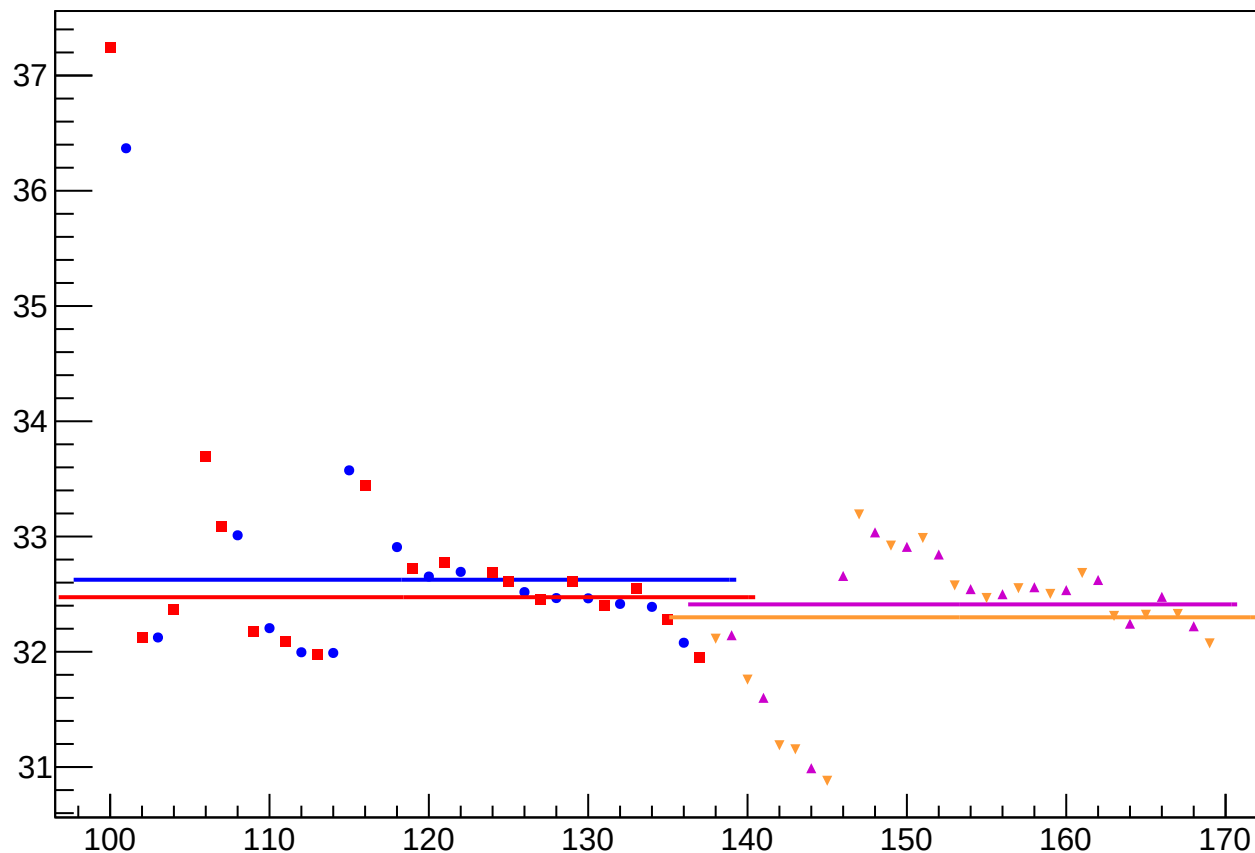
Right: 0.070 $\pm$ 0.000 χ^2 /NDF: 1579028.4/33

In: 0.075 $\pm$ 0.000 χ^2 /NDF:1146292.2/30

Out: 0.075 $\pm$ 0.000 χ^2 /NDF:1225004.0/33

All: 0.075 $\pm$ 0.000 χ^2 /NDF: 2371781.7/64

yield_usr_mean vs Slug, Sign Corrected



Right In: 32.625 ± 0.000 χ^2/NDF : 739141163.5/15

Left Out: 32.299 ± 0.000 χ^2/NDF : 780588645.0/16

Right Out: 32.474 ± 0.000 χ^2/NDF : 156801553.7/18

Left In: 32.411 ± 0.000 χ^2/NDF : 531333712.9/14

Left: 32.352 ± 0.000 χ^2/NDF : 1323751589.6/31

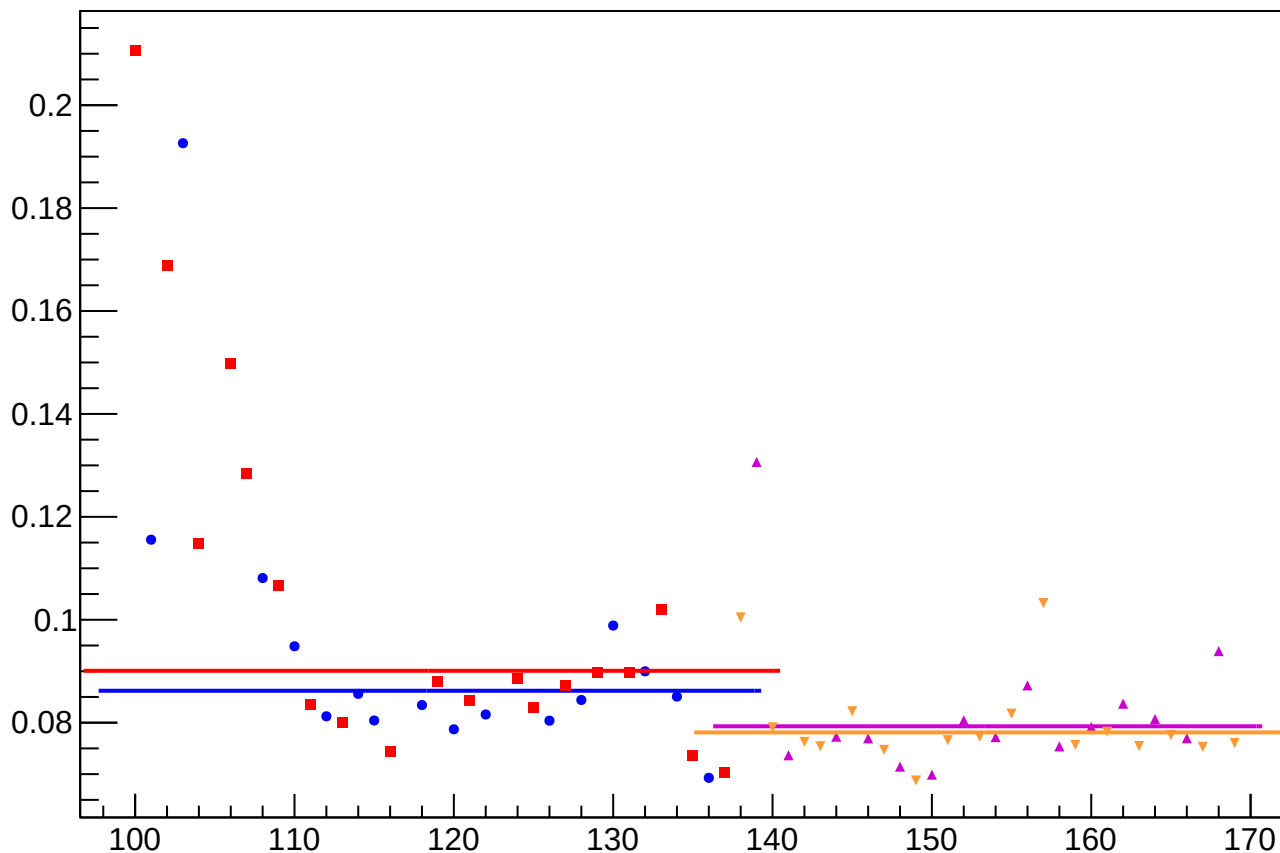
Right: 32.552 ± 0.000 χ^2/NDF : 905331922.0/34

In: 32.480 ± 0.000 χ^2/NDF : 1296728021.9/30

Out: 32.349 ± 0.000 χ^2/NDF : 954640192.2/35

All: 32.413 ± 0.000 χ^2/NDF : 2274501492.3/66

yield_usr_rms vs Slug, Sign Corrected



Right In: 0.086+/-0.000 χ^2/NDF : 598718.4/15

Left Out: 0.078+/-0.000 χ^2/NDF : 201381.4/16

Right Out: 0.090+/-0.000 χ^2/NDF : 621848.1/18

Left In: 0.079+/-0.000 χ^2/NDF : 375791.0/14

Left: 0.079+/-0.000 χ^2/NDF : 579870.5/31

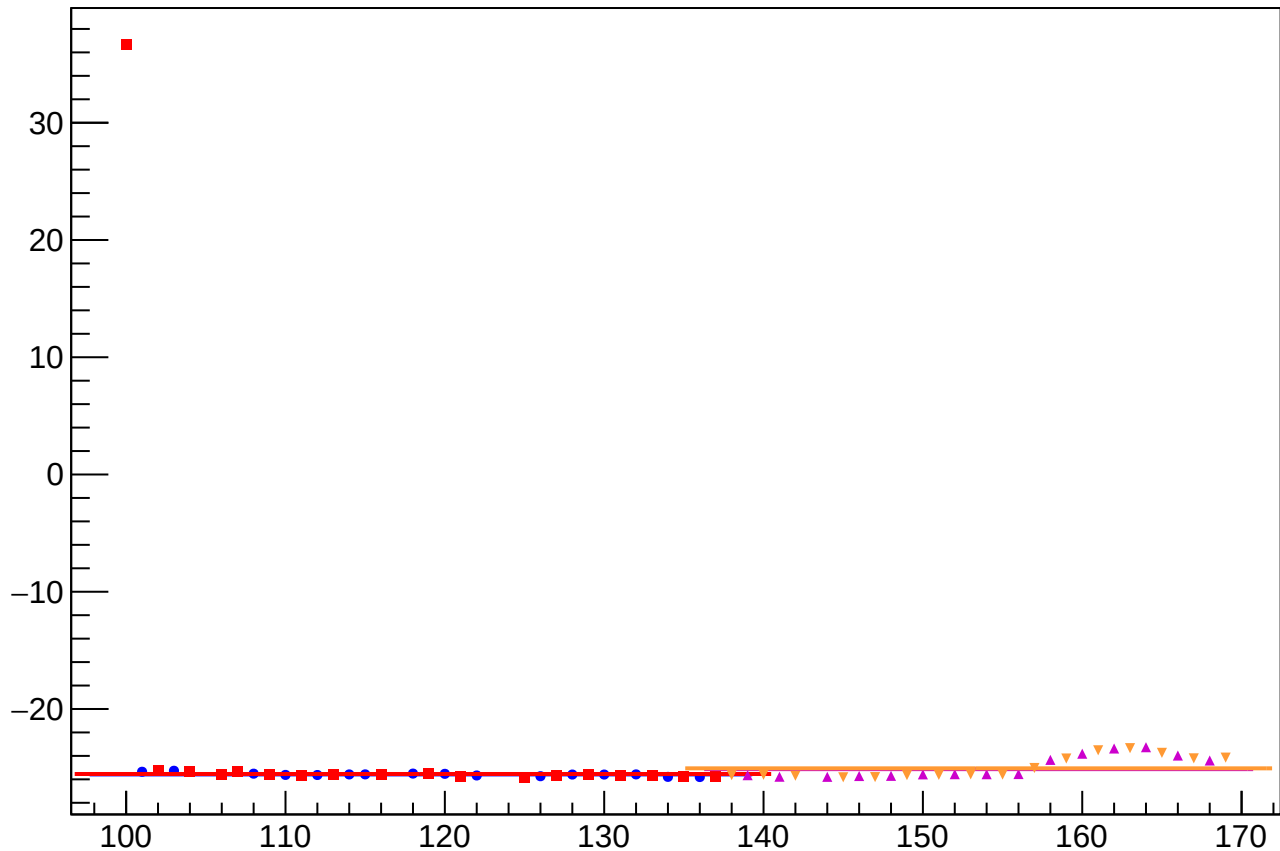
Right: 0.088+/-0.000 χ^2/NDF : 1232875.9/34

In: 0.082+/-0.000 χ^2/NDF : 1029267.1/30

Out: 0.082+/-0.000 χ^2/NDF : 986092.3/35

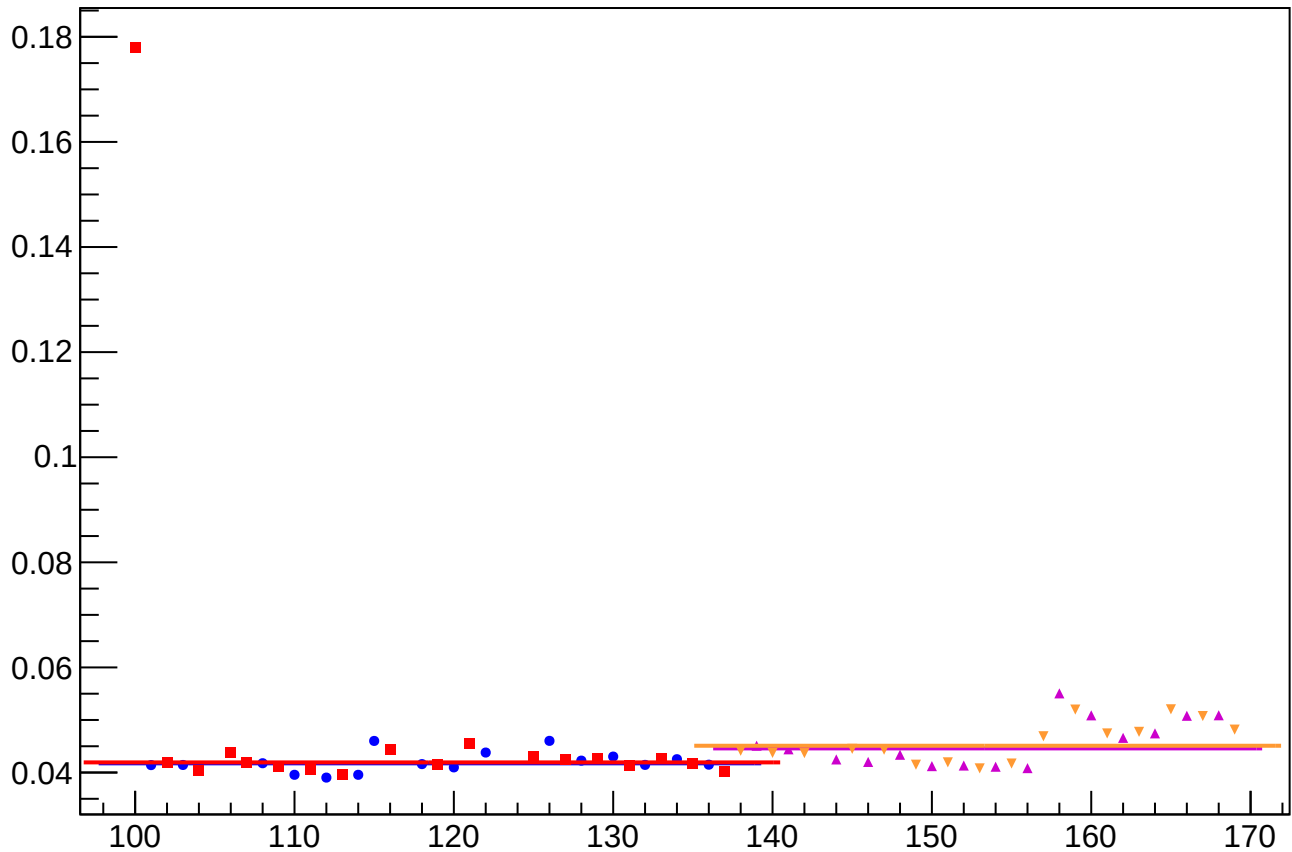
All: 0.082+/-0.000 χ^2/NDF : 2015359.8/66

yield_dsl_mean vs Slug, Sign Corrected



Right In: -25.579+/-0.000	χ^2/NDF : 98389255.1/15	Left: -25.096+/-0.000	χ^2/NDF : 8805567382.5/30
Left Out: -25.062+/-0.000	χ^2/NDF : 4384727971.3/15	Right: -25.561+/-0.000	χ^2/NDF : 9008481743.9/33
Right Out: -25.544+/-0.000	χ^2/NDF : 8907540506.8/17	In: -25.311+/-0.000	χ^2/NDF : 5000662291.4/30
Left In: -25.129+/-0.000	χ^2/NDF : 4407038097.8/14	Out: -25.257+/-0.000	χ^2/NDF : 13860454185.2/33
		All: -25.284+/-0.000	χ^2/NDF : 18875703885.5

yield_dsl_rms vs Slug, Sign Corrected



Right In: 0.042 ± 0.000 χ^2/NDF : 20733.3/15

Left Out: 0.045 ± 0.000 χ^2/NDF : 141722.1/15

Right Out: 0.042 ± 0.000 χ^2/NDF : 100140.4/17

Left In: 0.045 ± 0.000 χ^2/NDF : 197098.1/14

Left: 0.045 ± 0.000 χ^2/NDF : 340370.1/30

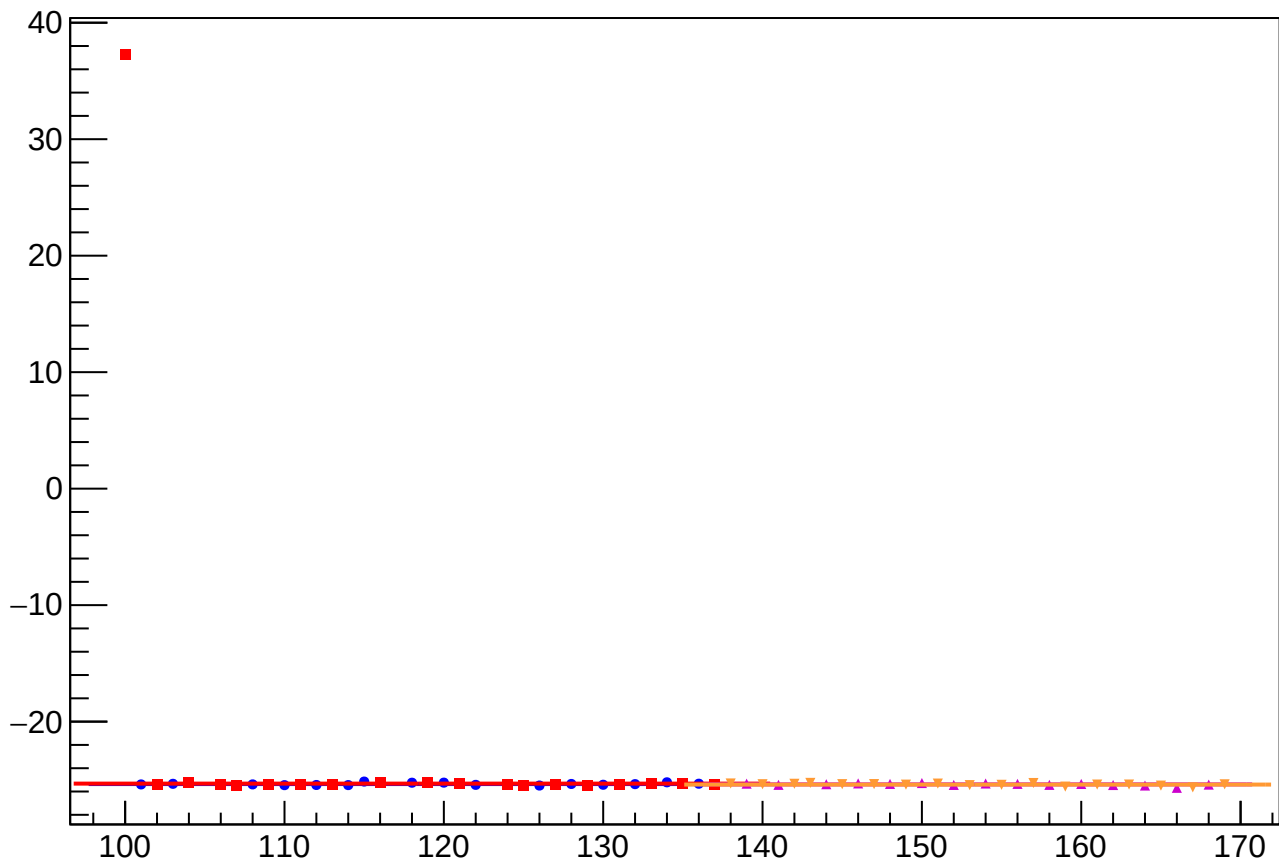
Right: 0.042 ± 0.000 χ^2/NDF : 121007.1/33

In: 0.043 ± 0.000 χ^2/NDF : 257432.9/30

Out: 0.044 ± 0.000 χ^2/NDF : 290999.6/33

All: 0.044 ± 0.000 χ^2/NDF : 549812.1/64

yield_dsr_mean vs Slug, Sign Corrected



Right In: -25.360+/-0.000 χ^2/NDF : 13284405.9/15

Left Out: -25.405+/-0.000 χ^2/NDF : 42330844.2/16

Right Out: -25.322+/-0.000 χ^2/NDF : 6314907036.5/18

Left In: -25.388+/-0.000 χ^2/NDF : 32344908.9/14

Left: -25.397+/-0.000 χ^2/NDF : 75254338.0/31

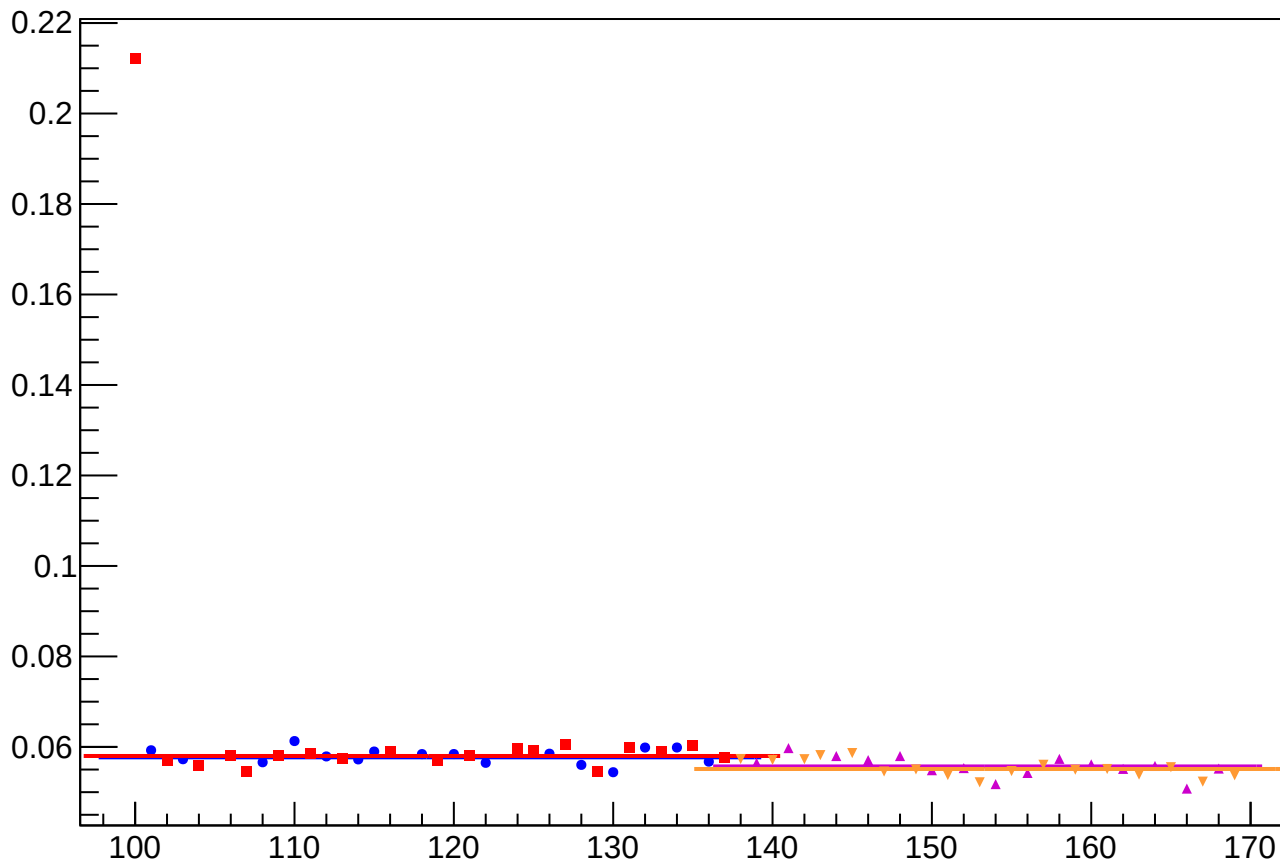
Right: -25.341+/-0.000 χ^2/NDF : 6329738520.5/34

In: -25.378+/-0.000 χ^2/NDF : 46653386.5/30

Out: -25.377+/-0.000 χ^2/NDF : 6366965061.6/35

All: -25.377+/-0.000 χ^2/NDF : 6413622168.9/70

yield_dsr_rms vs Slug, Sign Corrected



Right In: 0.058+/-0.000 χ^2/NDF : 11763.6/15

Left Out: 0.055+/-0.000 χ^2/NDF : 28677.5/16

Right Out: 0.058+/-0.000 χ^2/NDF : 88682.9/18

Left In: 0.056+/-0.000 χ^2/NDF : 37821.3/14

Left: 0.055+/-0.000 χ^2/NDF : 67776.4/31

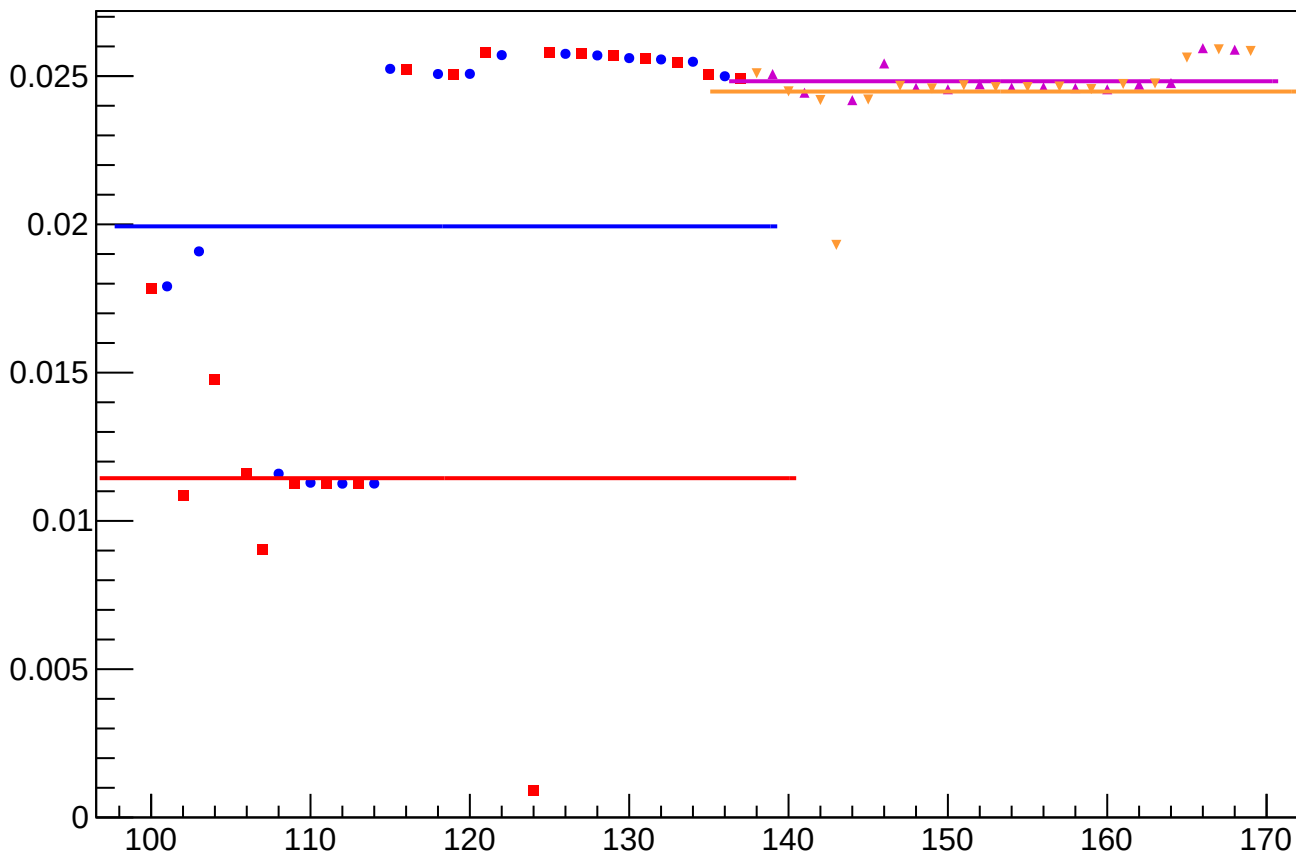
Right: 0.058+/-0.000 χ^2/NDF : 100633.0/34

In: 0.056+/-0.000 χ^2/NDF : 60609.1/30

Out: 0.056+/-0.000 χ^2/NDF : 140921.0/35

All: 0.056+/-0.000 χ^2/NDF : 202116.9/66

yield_atl1_mean vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 62465154056.0/15

Left Out: 0.024+/-0.000 χ^2/NDF : 5732472099.8/16

Right Out: 0.011+/-0.000 χ^2/NDF : 253880264851.8/18

Left In: 0.025+/-0.000 χ^2/NDF : 542036288.5/14

Left: 0.025+/-0.000 χ^2/NDF : 6424127886.0/31

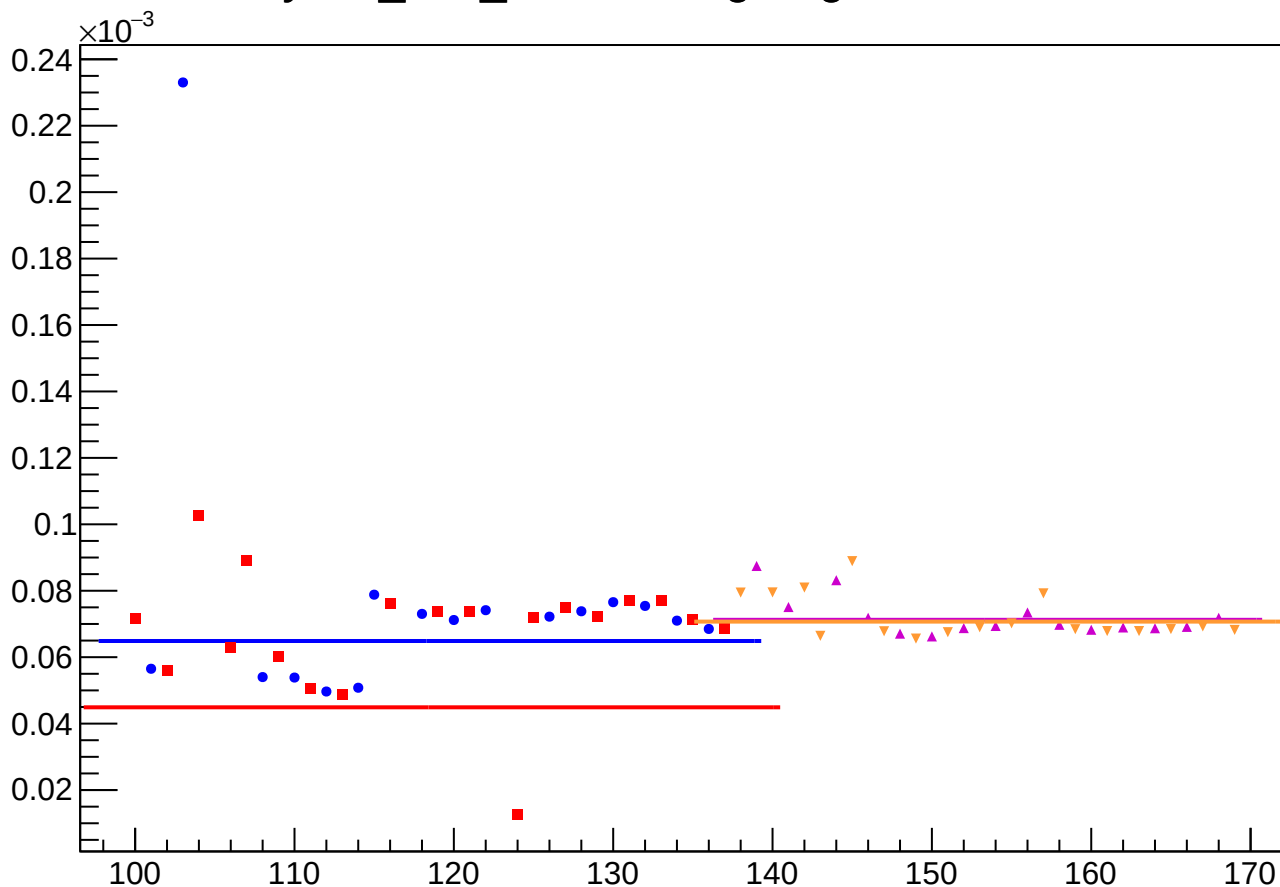
Right: 0.015+/-0.000 χ^2/NDF : 385775066677.0/34

In: 0.023+/-0.000 χ^2/NDF : 85557086155.8/30

Out: 0.018+/-0.000 χ^2/NDF : 477664257206.2/35

All: 0.020+/-0.000 χ^2/NDF : 614991404644.3

yield_atl1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 816892.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :170572.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3770565.9/18

Left In: 0.000+/-0.000 χ^2/NDF :125672.0/14

Left: 0.000+/-0.000 χ^2/NDF : 296967.8/31

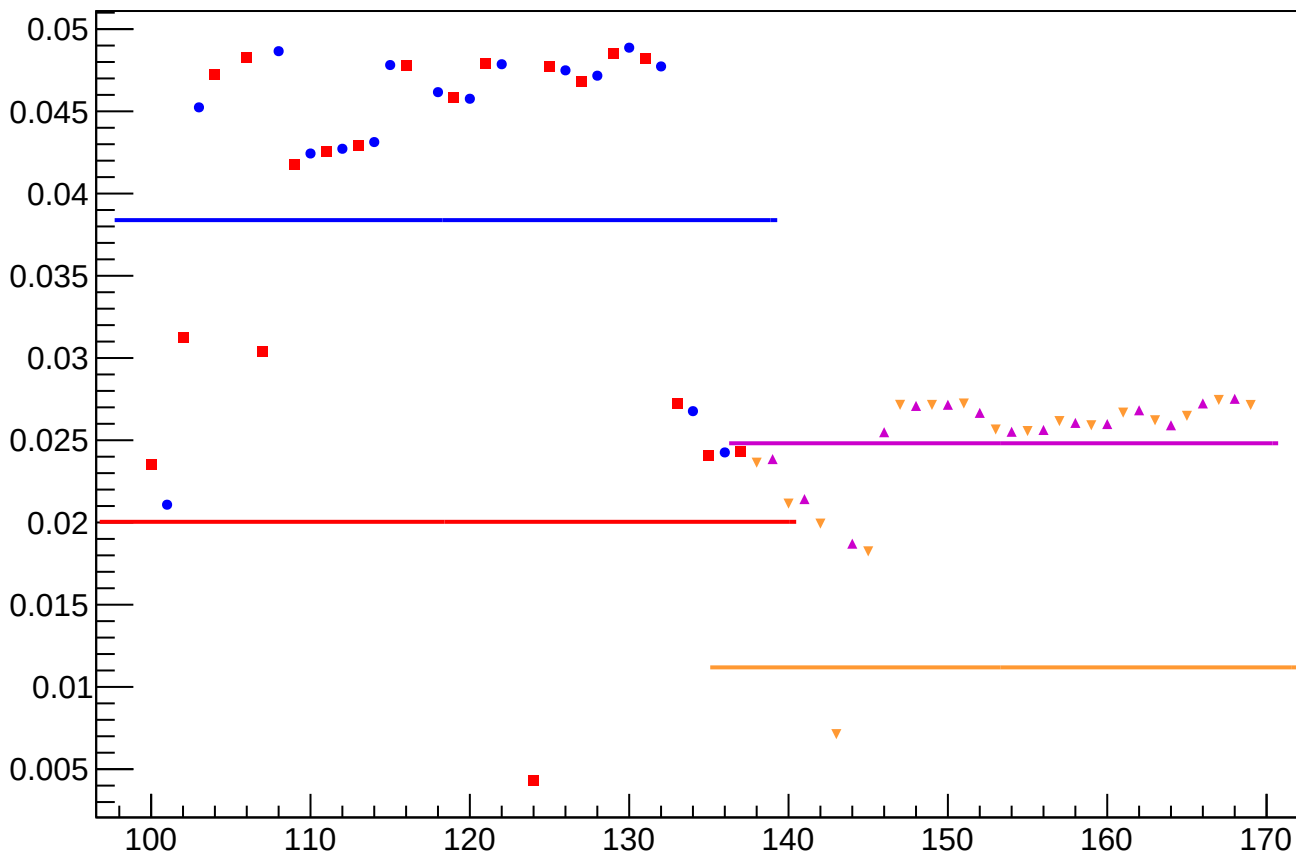
Right: 0.000+/-0.000 χ^2/NDF : 5354969.6/34

In: 0.000+/-0.000 χ^2/NDF :1019168.6/30

Out: 0.000+/-0.000 χ^2/NDF :5649084.2/35

All: 0.000+/-0.000 χ^2/NDF : 7178370.0/66

yield_atl2_mean vs Slug, Sign Corrected



Right In: 0.038+/-0.000

χ^2/NDF : 7078619233.3/15

Left: 0.014+/-0.000

χ^2/NDF : 52169912087.8/31

Left Out: 0.011+/-0.000

χ^2/NDF : 32516604170.5/16

Right: 0.026+/-0.000

χ^2/NDF : 62680347103.1/34

Right Out: 0.020+/-0.000

χ^2/NDF : 42185025429.6/18

In: 0.029+/-0.000

χ^2/NDF : 15429774234.5/30

Out: 0.013+/-0.000

χ^2/NDF : 82565626282.7/35

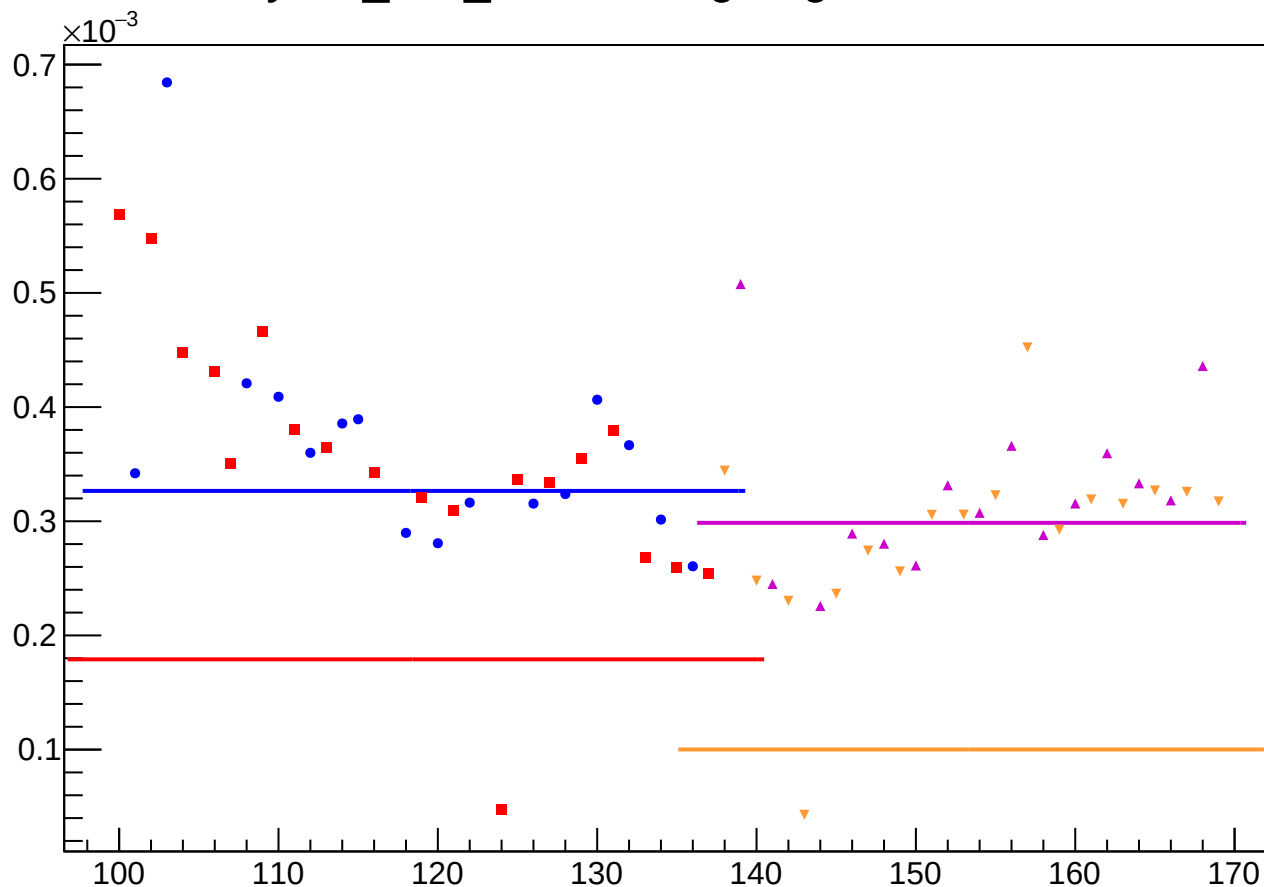
Left In: 0.025+/-0.000

χ^2/NDF : 1010470650.2/14

All: 0.016+/-0.000

χ^2/NDF : 136979769131.1

yield_atl2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 581428.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 12905551.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 5660786.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 845252.7/14

Left: 0.000+/-0.000 χ^2/NDF : 21662803.6/31

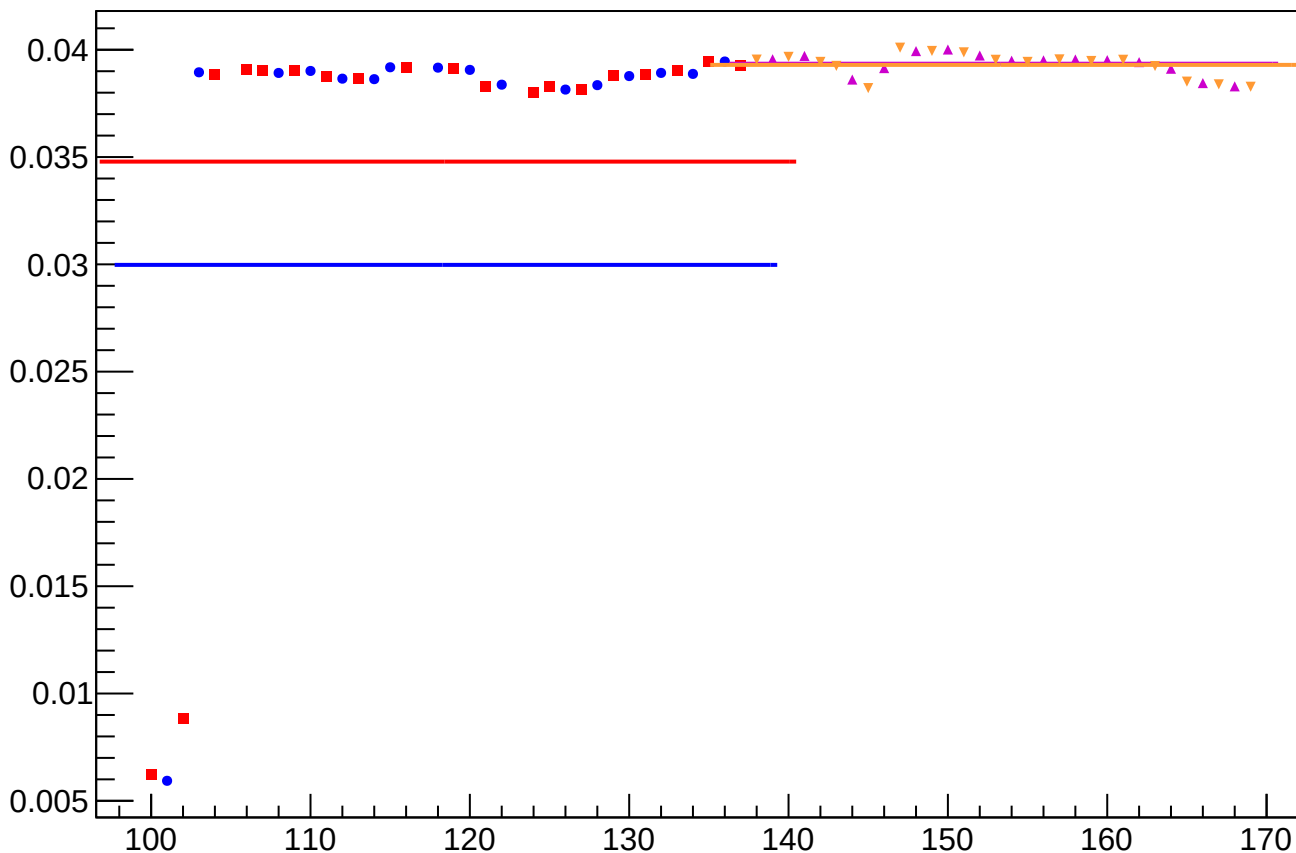
Right: 0.000+/-0.000 χ^2/NDF : 7977614.8/34

In: 0.000+/-0.000 χ^2/NDF : 1489064.4/30

Out: 0.000+/-0.000 χ^2/NDF : 19817700.0/35

All: 0.000+/-0.000 χ^2/NDF : 32060998.1/66

yield_atr1_mean vs Slug, Sign Corrected



Right In: 0.030 +/- 0.000

χ^2/NDF : 108275706275.7/15

Left: 0.039 +/- 0.000

χ^2/NDF : 421573871.9/31

Right: 0.032 +/- 0.000

χ^2/NDF : 161037517780.6/34

Left Out: 0.039 +/- 0.000

χ^2/NDF : 248066049.6/16

In: 0.035 +/- 0.000

χ^2/NDF : 133952185666.6/30

Right Out: 0.035 +/- 0.000

χ^2/NDF : 47263545471.6/18

Out: 0.038 +/- 0.000

χ^2/NDF : 53171708363.8/35

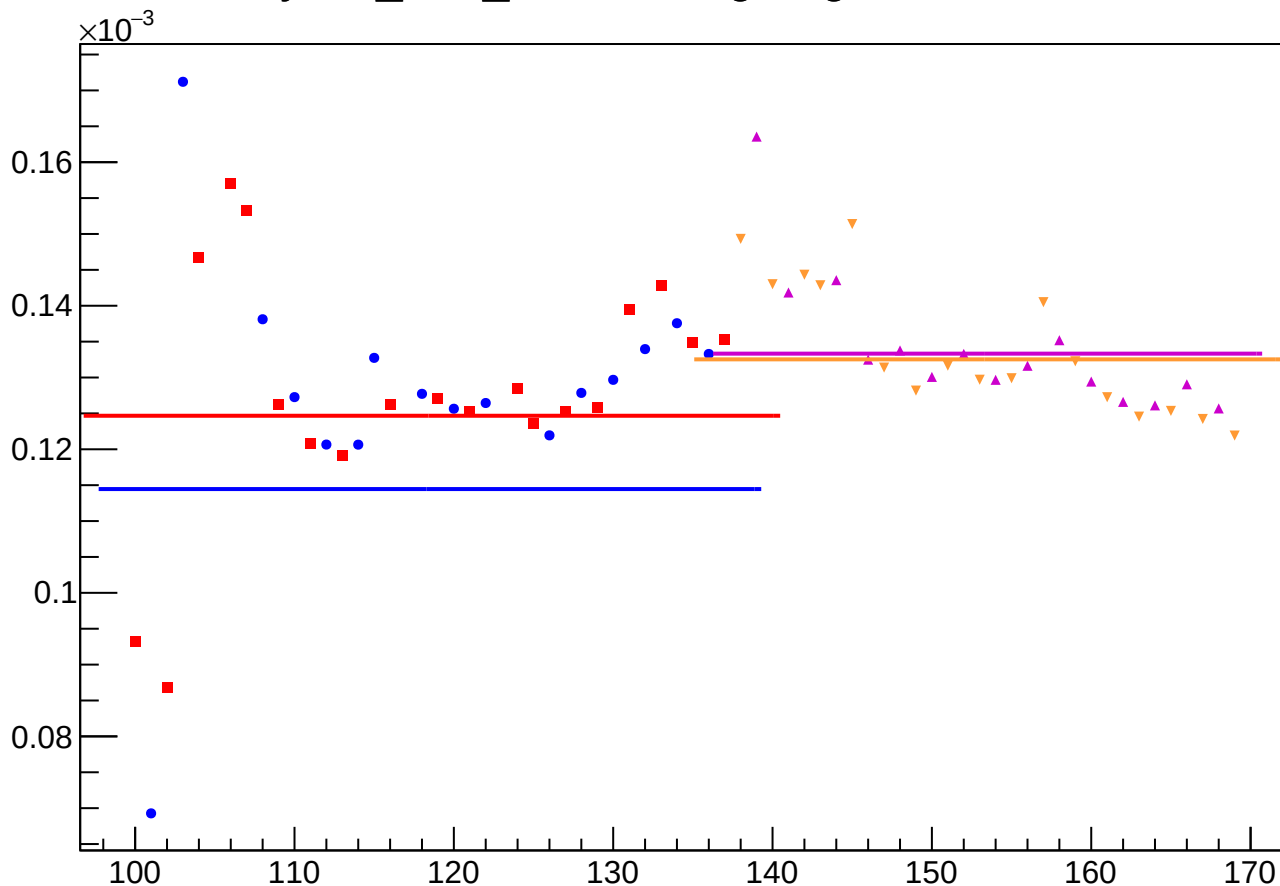
Left In: 0.039 +/- 0.000

χ^2/NDF : 172447071.0/14

All: 0.036 +/- 0.000

χ^2/NDF : 190169160014.0

yield_atr1_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 853142.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :106878.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 260393.6/18

Left In: 0.000+/-0.000 χ^2/NDF :91764.1/14

Left: 0.000+/-0.000 χ^2/NDF : 199091.8/31

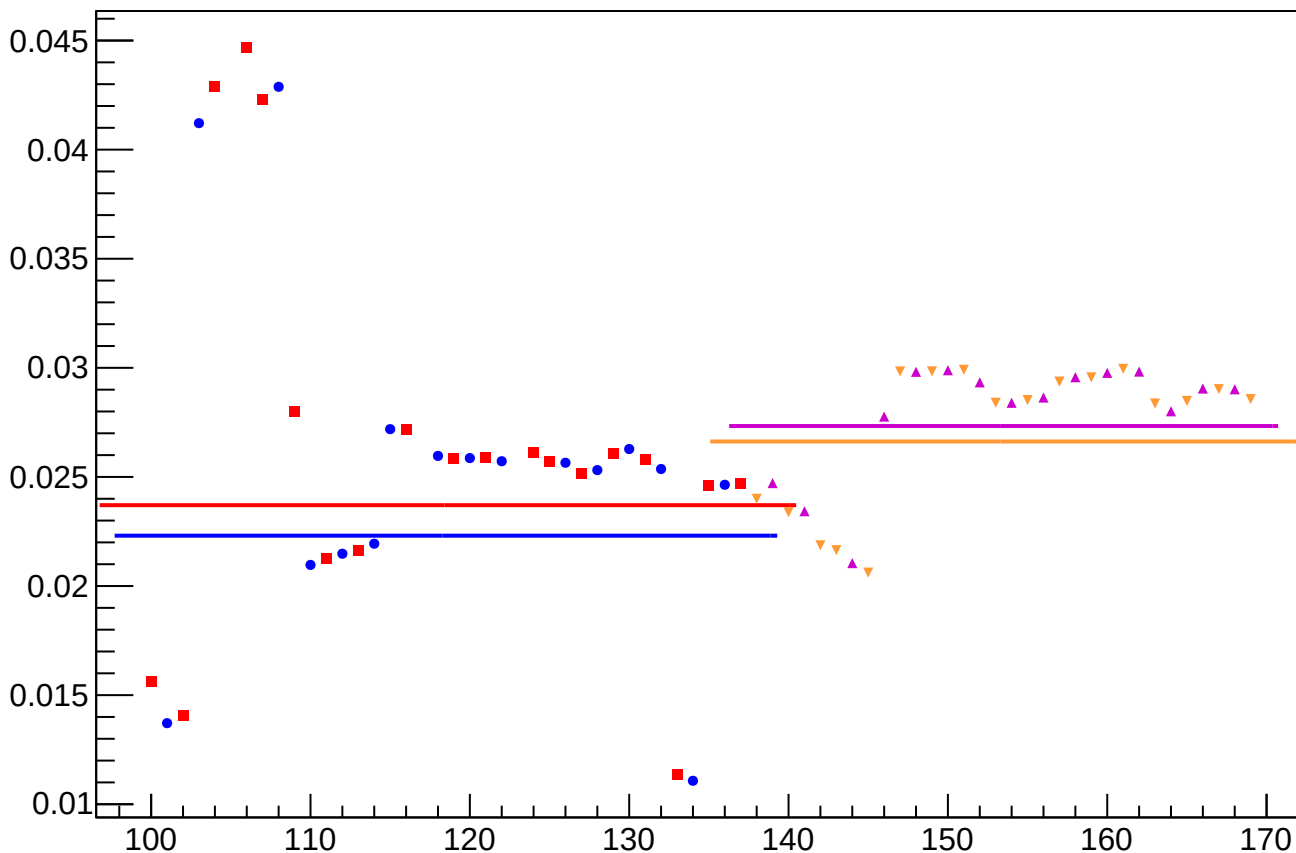
Right: 0.000+/-0.000 χ^2/NDF : 1163063.5/34

In: 0.000+/-0.000 χ^2/NDF :1151517.2/30

Out: 0.000+/-0.000 χ^2/NDF :401671.8/35

All: 0.000+/-0.000 χ^2/NDF : 1575427.5/66

yield_atr2_mean vs Slug, Sign Corrected



Right In: 0.022+/-0.000

χ^2/NDF : 5012486114.6/15

Left: 0.027+/-0.000 χ^2/NDF : 3188671579.9/31

Right: 0.023+/-0.000 χ^2/NDF : 10685664717.3/34

Left Out: 0.027+/-0.000

χ^2/NDF : 1878492782.0/16

In: 0.025+/-0.000 χ^2/NDF : 7695487645.2/30

Right Out: 0.024+/-0.000

χ^2/NDF : 5581865088.7/18

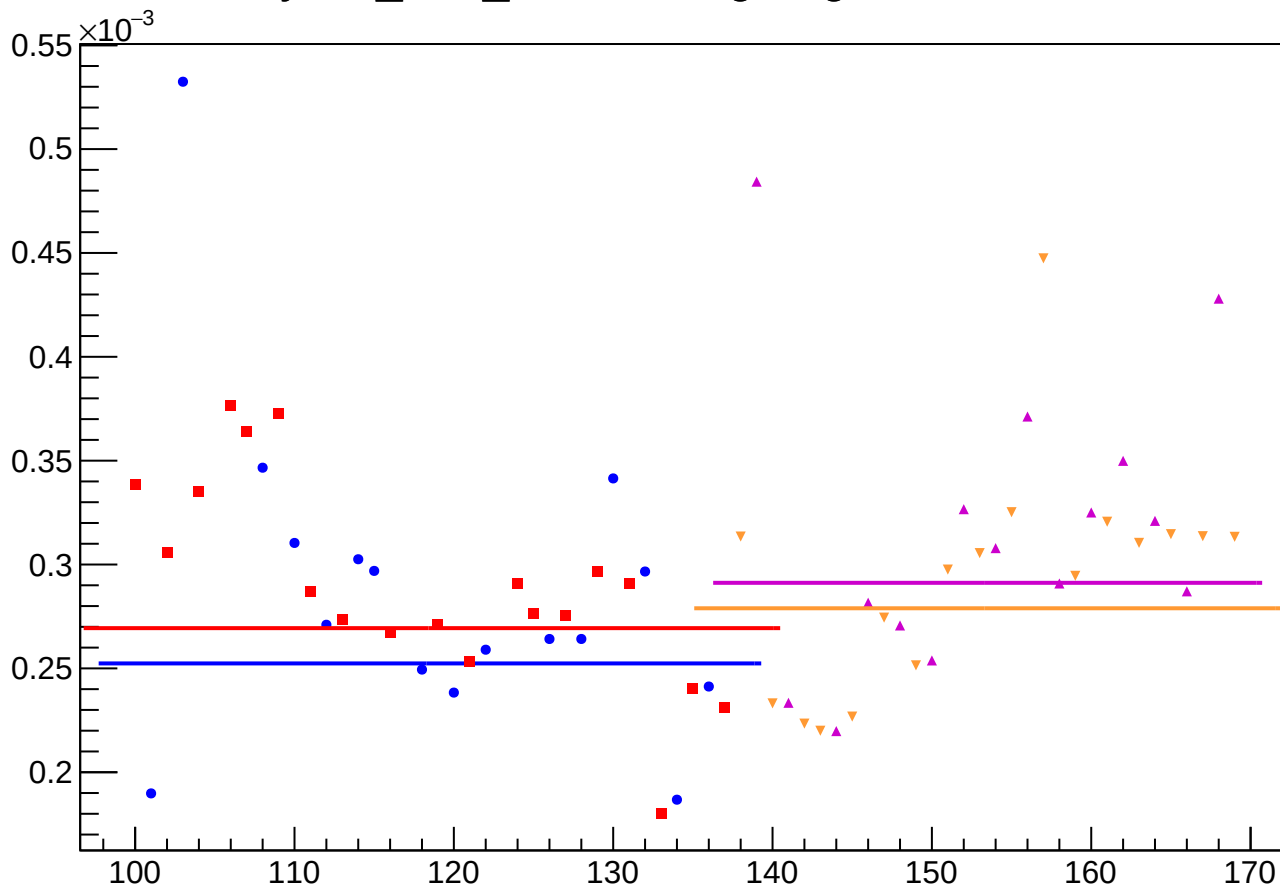
Out: 0.026+/-0.000 χ^2/NDF : 7937175499.4/35

Left In: 0.027+/-0.000

χ^2/NDF : 1275335091.3/14

All: 0.025+/-0.000 χ^2/NDF : 15649110845.9/69

yield_atr2_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 707863.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 638550.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 446359.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 896634.1/14

Left: 0.000+/-0.000 χ^2/NDF : 1556055.0/31

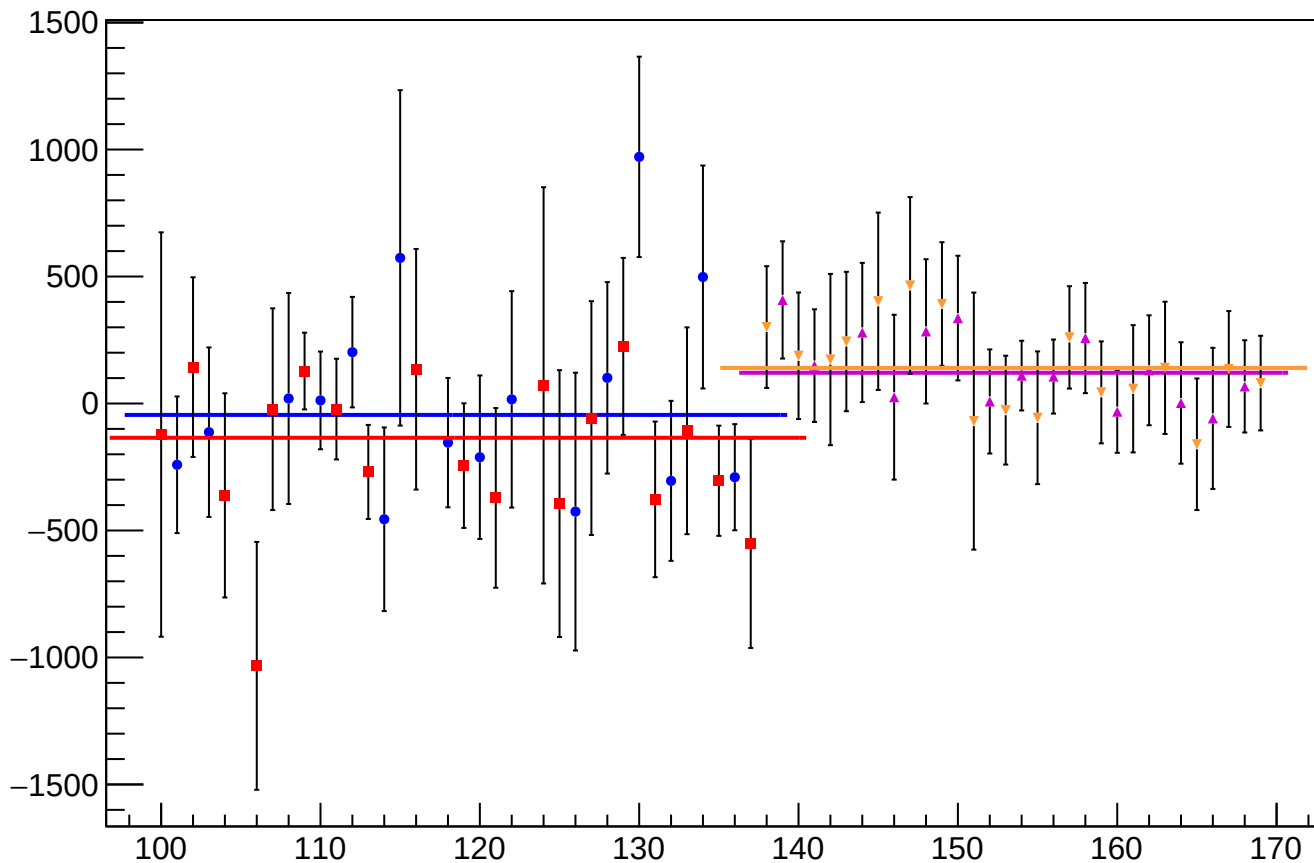
Right: 0.000+/-0.000 χ^2/NDF : 1181187.1/34

In: 0.000+/-0.000 χ^2/NDF : 1772419.4/30

Out: 0.000+/-0.000 χ^2/NDF : 1095147.5/35

All: 0.000+/-0.000 χ^2/NDF : 2867775.0/66

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -44.917 $\pm$ 76.198 χ^2 /NDF: 15.5/15

Left Out: 140.109 $\pm$ 60.606 χ^2 /NDF:6.6/16

Right Out: -134.996 $\pm$ 68.062 χ^2 /NDF: 12.9/18

Left In: 121.069 $\pm$ 52.981 χ^2 /NDF:5.4/14

Left: 129.317 $\pm$ 39.888 χ^2 /NDF: 12.1/31

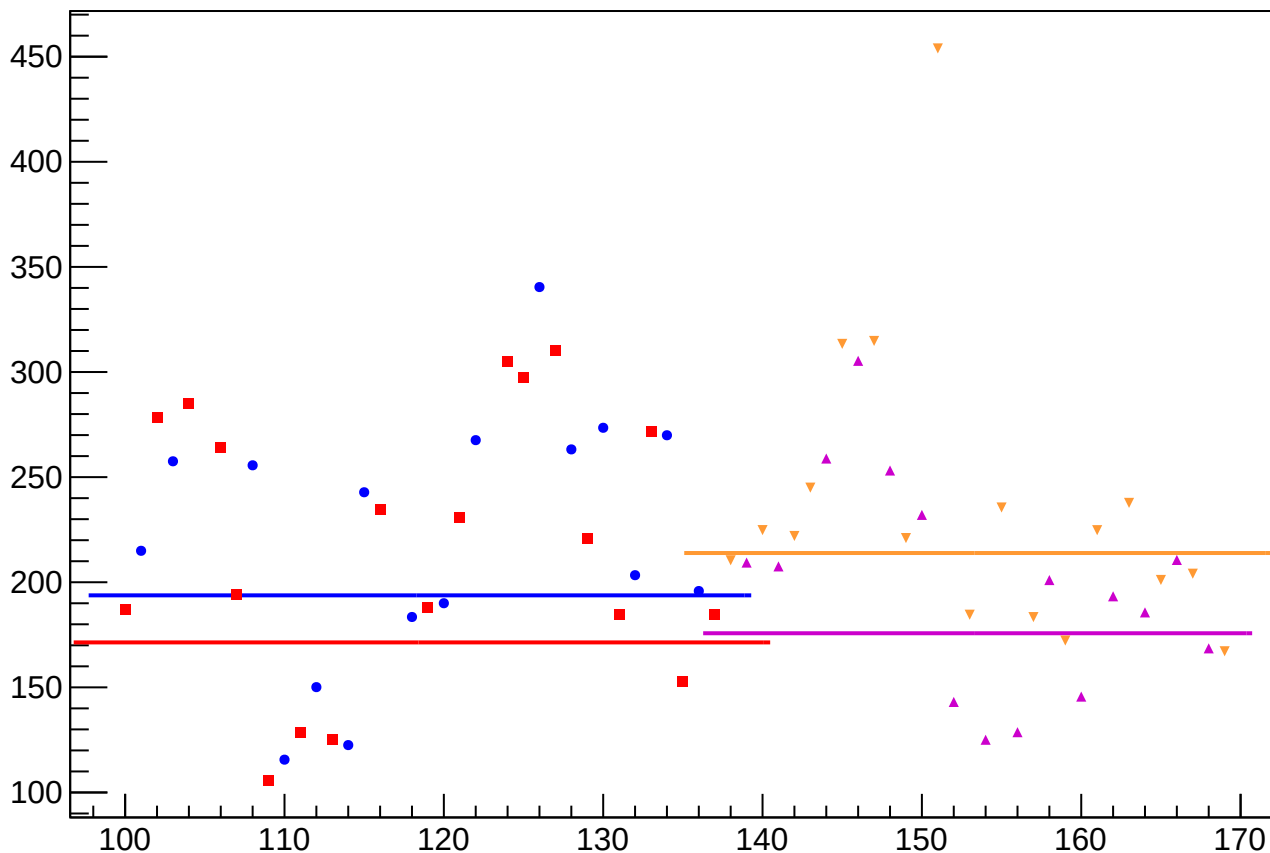
Right: -95.021 $\pm$ 50.761 χ^2 /NDF: 29.2/34

In: 66.976 $\pm$ 43.499 χ^2 /NDF:24.1/30

Out: 18.445 $\pm$ 45.262 χ^2 /NDF:28.7/35

All: 43.674 $\pm$ 31.363 χ^2 /NDF: 53.4/66

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.768 $\pm$ 0.054 χ^2 /NDF: 1048095.1/15

Left Out: 213.904 $\pm$ 0.043 χ^2 /NDF:1150939.2/16

Right Out: 171.382 $\pm$ 0.048 χ^2 /NDF: 1658079.5/18

Left In: 175.739 $\pm$ 0.037 χ^2 /NDF:1519379.2/14

Left: 192.271 $\pm$ 0.028 χ^2 /NDF: 3119859.0/31

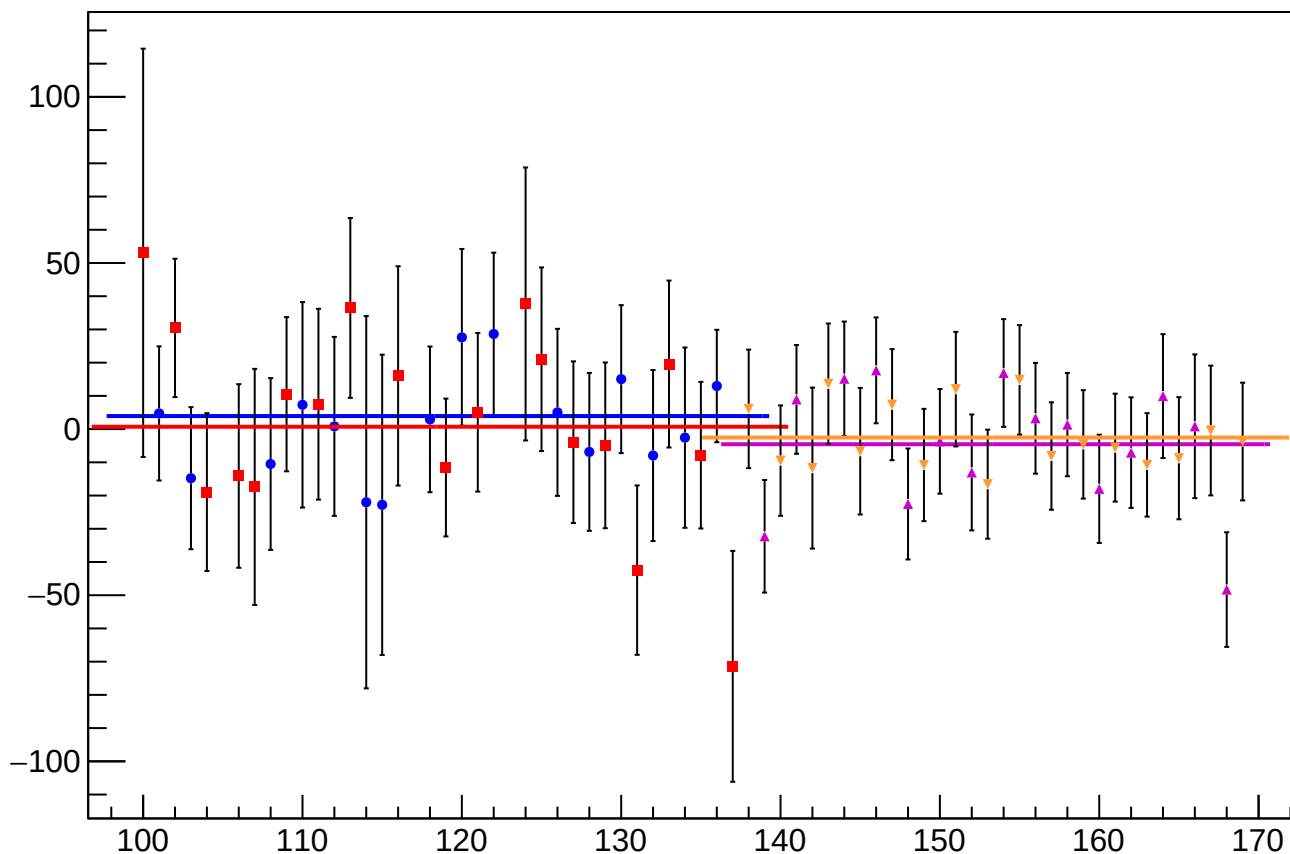
Right: 181.316 $\pm$ 0.036 χ^2 /NDF: 2802189.0/34

In: 181.615 $\pm$ 0.031 χ^2 /NDF:2642947.2/30

Out: 195.098 $\pm$ 0.032 χ^2 /NDF:3244415.7/35

All: 188.089 $\pm$ 0.022 χ^2 /NDF: 5979634.9/66

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.923 ± 6.172 $\chi^2/\text{NDF}: 4.5/15$

Left Out: -2.540 ± 4.212 $\chi^2/\text{NDF}: 5.1/16$

Right Out: 0.714 ± 6.077 $\chi^2/\text{NDF}: 15.9/18$

Left In: -4.554 ± 4.355 $\chi^2/\text{NDF}: 17.9/14$

Left: -3.513 ± 3.028 $\chi^2/\text{NDF}: 23.2/31$

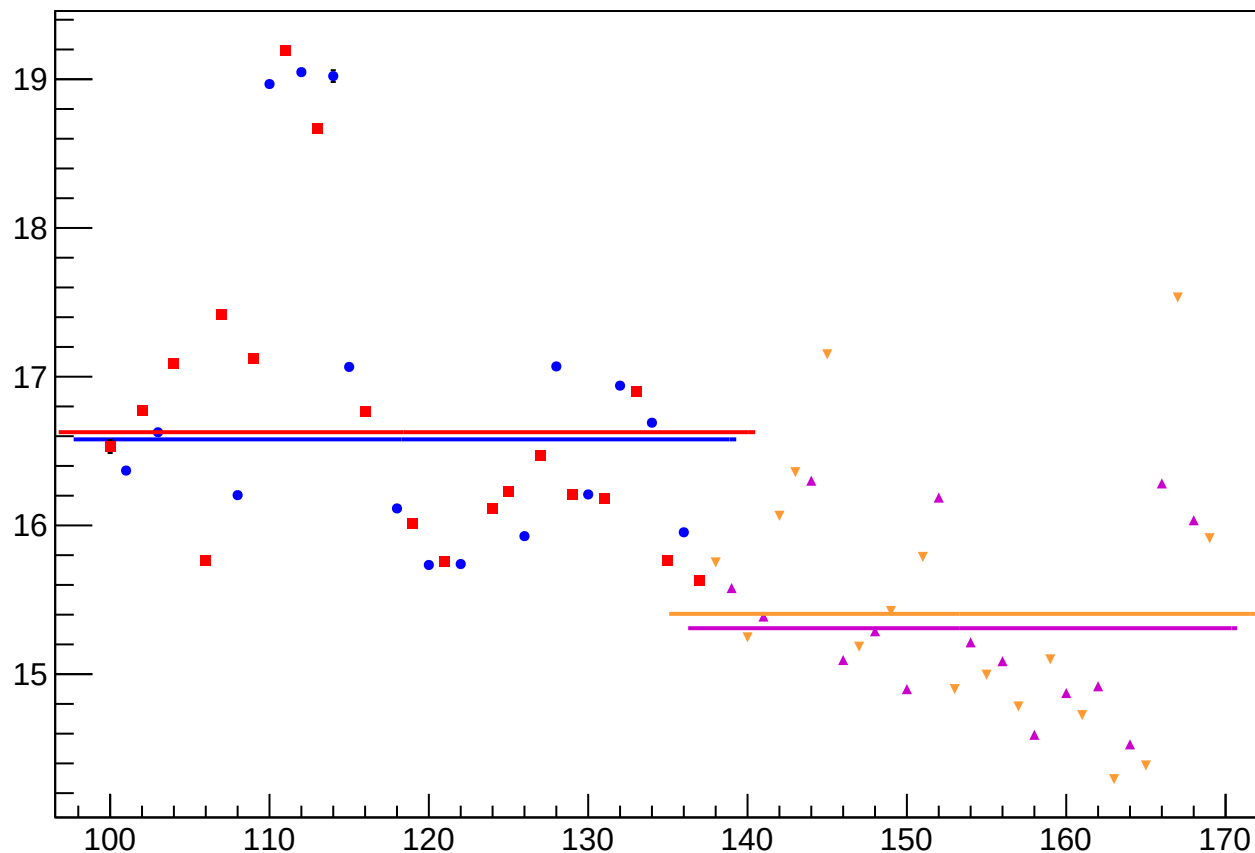
Right: 2.294 ± 4.330 $\chi^2/\text{NDF}: 20.5/34$

In: -1.736 ± 3.558 $\chi^2/\text{NDF}: 23.7/30$

Out: -1.484 ± 3.462 $\chi^2/\text{NDF}: 21.2/35$

All: -1.606 ± 2.481 $\chi^2/\text{NDF}: 44.9/66$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.579 $\pm$ 0.004 χ^2 /NDF: 44575.6/15

Left Out: 15.406 $\pm$ 0.003 χ^2 /NDF: 78084.6/16

Right Out: 16.627 $\pm$ 0.004 χ^2 /NDF: 43461.8/18

Left In: 15.309 $\pm$ 0.003 χ^2 /NDF: 32283.2/14

Left: 15.359 $\pm$ 0.002 χ^2 /NDF: 110875.7/31

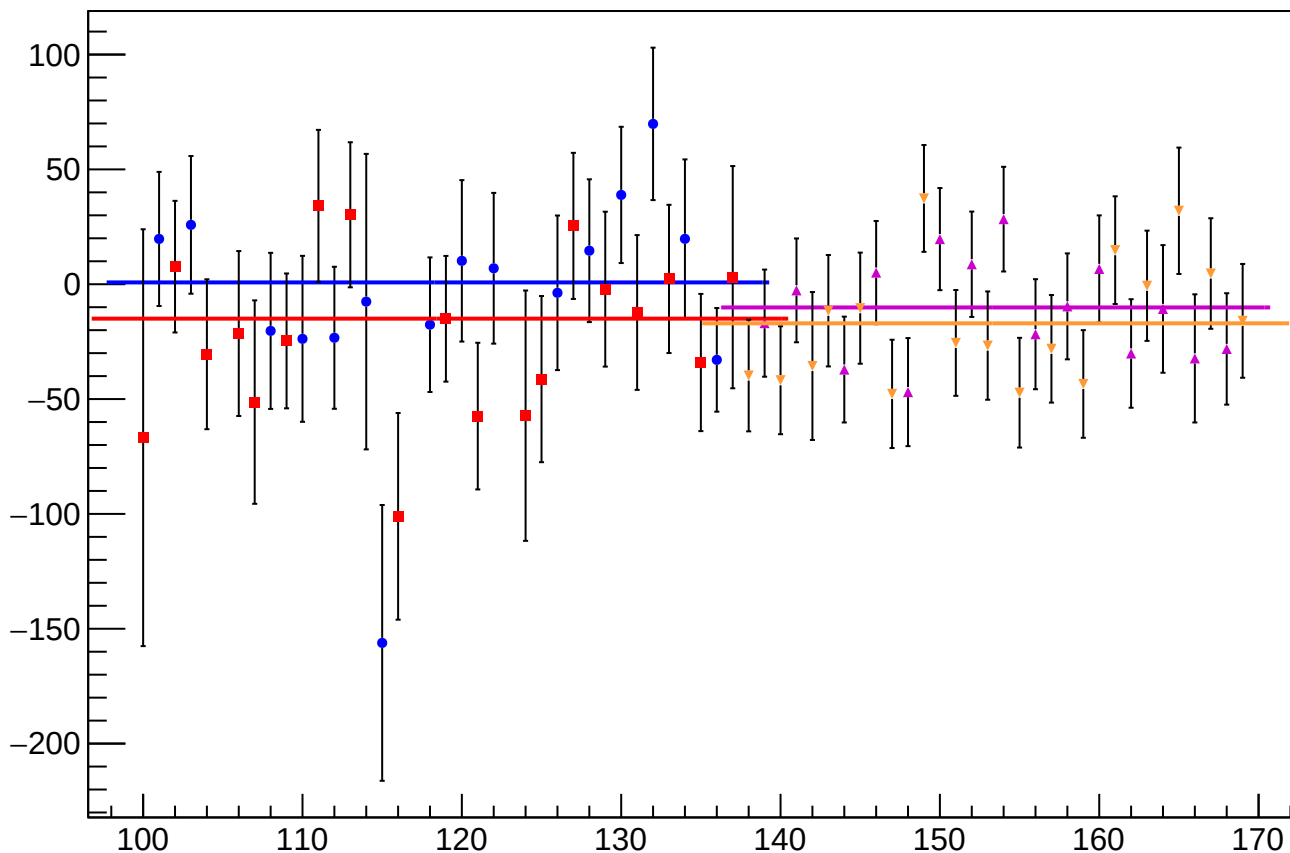
Right: 16.603 $\pm$ 0.003 χ^2 /NDF: 88099.6/34

In: 15.731 $\pm$ 0.003 χ^2 /NDF: 133363.5/30

Out: 15.802 $\pm$ 0.002 χ^2 /NDF: 176118.2/35

All: 15.767 $\pm$ 0.002 χ^2 /NDF: 309889.5/66

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.790 ± 8.125 $\chi^2/\text{NDF}: 18.7/15$

Left Out: -17.018 ± 5.889 $\chi^2/\text{NDF}: 19.3/16$

Right Out: -14.981 ± 7.953 $\chi^2/\text{NDF}: 15.4/18$

Left In: -10.108 ± 6.103 $\chi^2/\text{NDF}: 12.5/14$

Left: -13.686 ± 4.238 $\chi^2/\text{NDF}: 32.4/31$

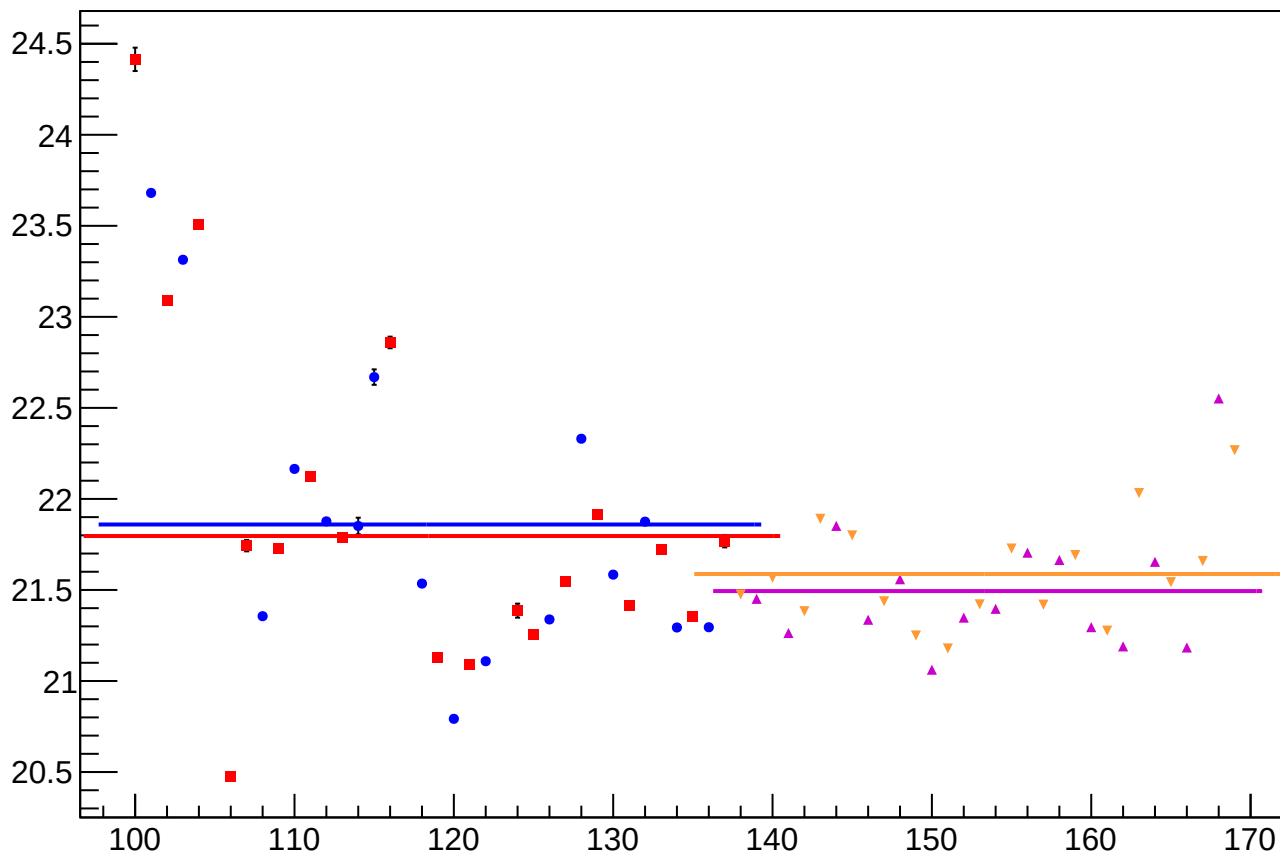
Right: -7.264 ± 5.683 $\chi^2/\text{NDF}: 36.0/34$

In: -6.177 ± 4.879 $\chi^2/\text{NDF}: 32.3/30$

Out: -16.297 ± 4.733 $\chi^2/\text{NDF}: 34.7/35$

All: -11.391 ± 3.397 $\chi^2/\text{NDF}: 69.2/66$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.860 ± 0.006 $\chi^2/\text{NDF}: 19468.1/15$

Left Out: 21.587 ± 0.004 $\chi^2/\text{NDF}: 4600.6/16$

Right Out: 21.796 ± 0.006 $\chi^2/\text{NDF}: 18861.3/18$

Left In: 21.494 ± 0.004 $\chi^2/\text{NDF}: 6540.5/14$

Left: 21.542 ± 0.003 $\chi^2/\text{NDF}: 11384.1/31$

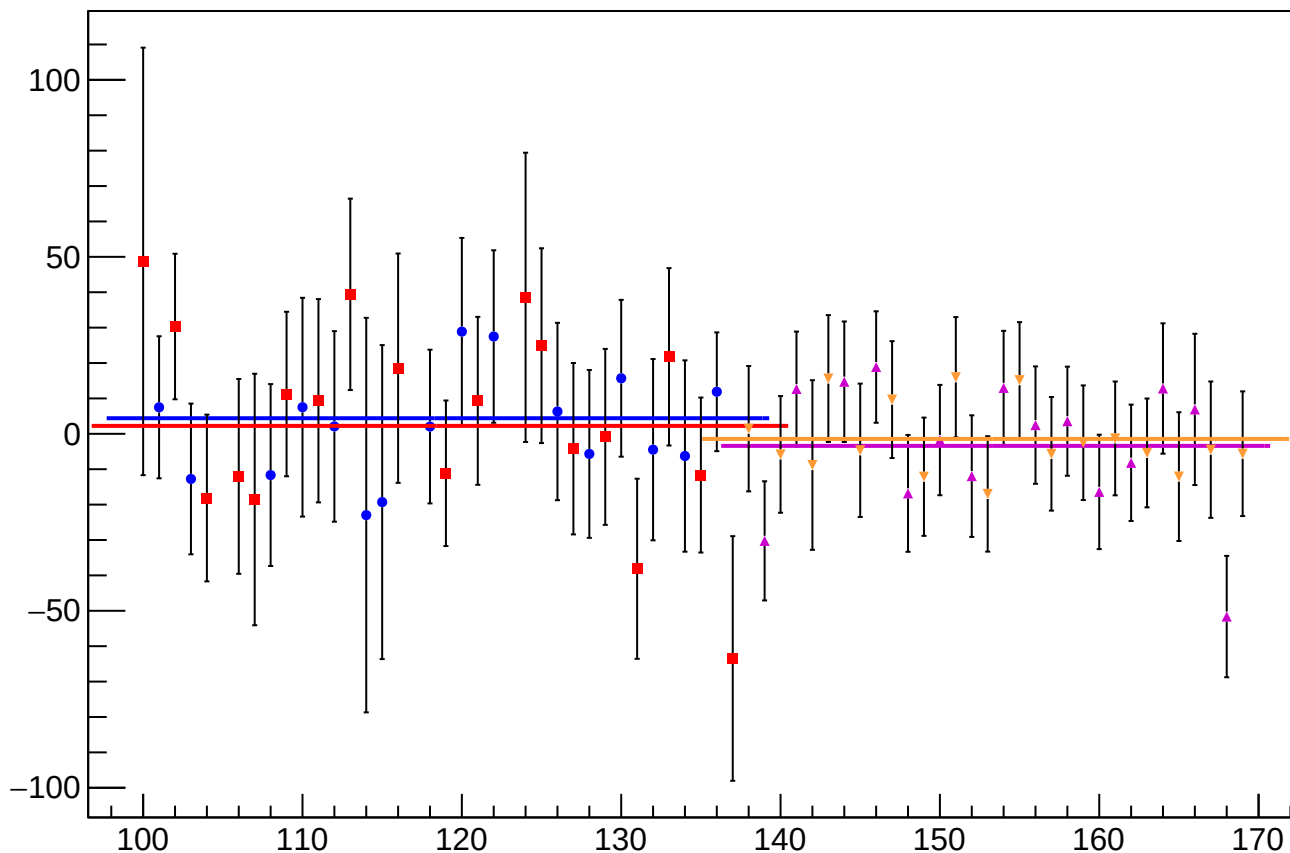
Right: 21.827 ± 0.004 $\chi^2/\text{NDF}: 38391.5/34$

In: 21.626 ± 0.003 $\chi^2/\text{NDF}: 28597.7/30$

Out: 21.661 ± 0.003 $\chi^2/\text{NDF}: 24352.2/35$

All: 21.644 ± 0.002 $\chi^2/\text{NDF}: 53004.7/66$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.404 ± 6.137 χ^2/NDF : 4.3/15

Left Out: -1.445 ± 4.171 χ^2/NDF : 5.5/16

Right Out: 2.244 ± 6.042 χ^2/NDF : 15.4/18

Left In: -3.407 ± 4.313 χ^2/NDF : 18.6/14

Left: -2.393 ± 2.998 χ^2/NDF : 24.2/31

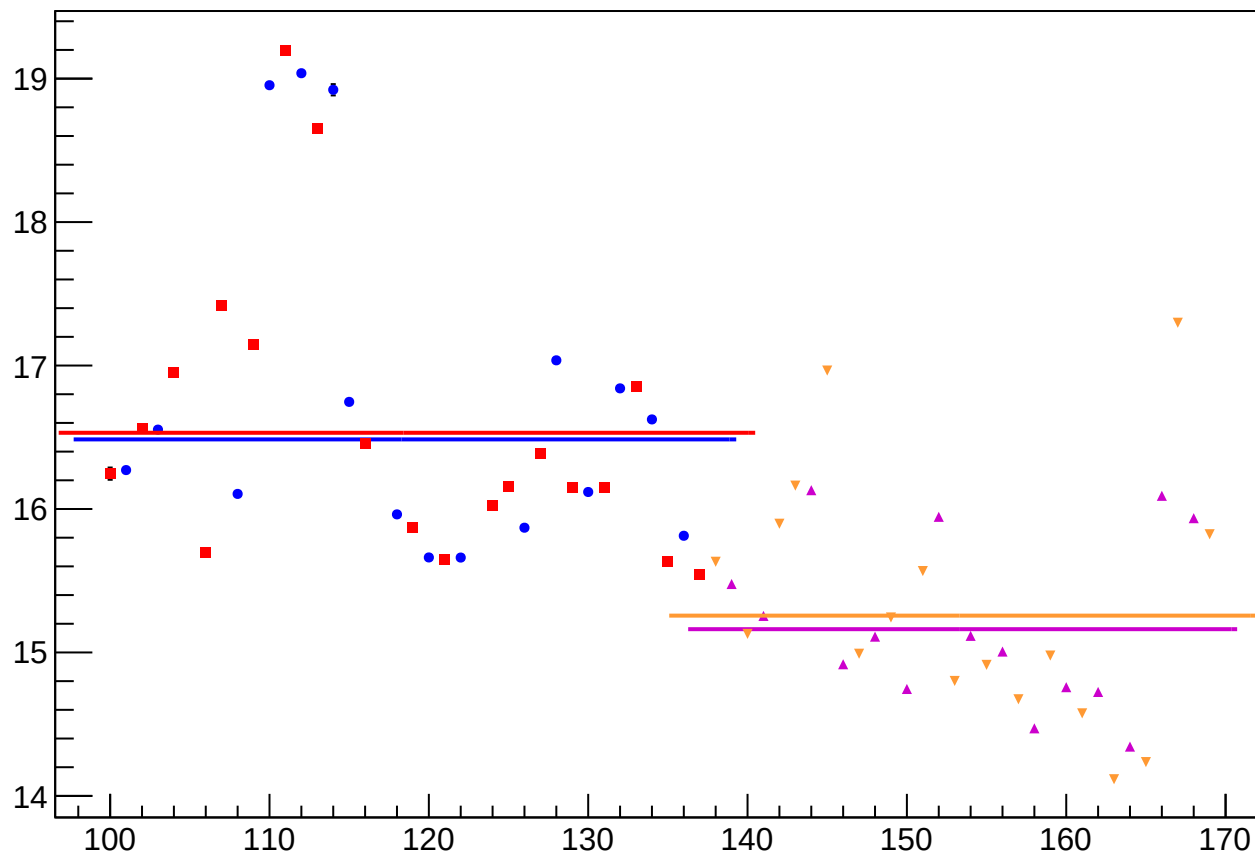
Right: 3.307 ± 4.306 χ^2/NDF : 19.7/34

In: -0.824 ± 3.529 χ^2/NDF : 24.0/30

Out: -0.254 ± 3.433 χ^2/NDF : 21.2/35

All: -0.531 ± 2.461 χ^2/NDF : 45.1/66

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.485 $\pm$ 0.004 χ^2 /NDF: 47186.1/15

Left Out: 15.257 $\pm$ 0.003 χ^2 /NDF: 76290.7/16

Right Out: 16.531 $\pm$ 0.004 χ^2 /NDF: 46474.0/18

Left In: 15.162 $\pm$ 0.003 χ^2 /NDF: 32026.6/14

Left: 15.211 $\pm$ 0.002 χ^2 /NDF: 108813.1/31

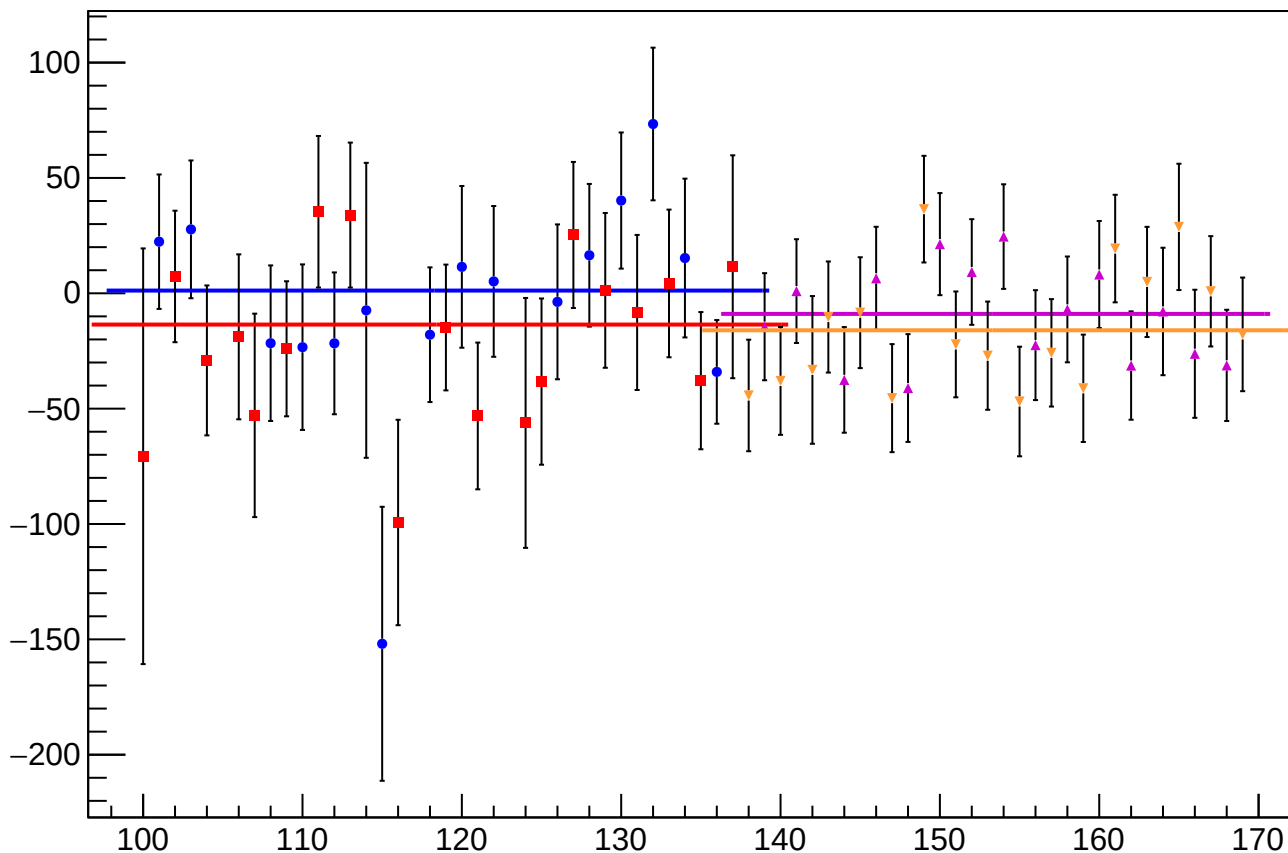
Right: 16.509 $\pm$ 0.003 χ^2 /NDF: 93717.6/34

In: 15.600 $\pm$ 0.002 χ^2 /NDF: 141413.7/30

Out: 15.668 $\pm$ 0.002 χ^2 /NDF: 183032.2/35

All: 15.635 $\pm$ 0.002 χ^2 /NDF: 324833.1/66

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.185 ± 8.088 $\chi^2/\text{NDF}: 19.4/15$

Left Out: -16.031 ± 5.854 $\chi^2/\text{NDF}: 19.0/16$

Right Out: -13.549 ± 7.915 $\chi^2/\text{NDF}: 15.9/18$

Left In: -8.932 ± 6.070 $\chi^2/\text{NDF}: 11.9/14$

Left: -12.610 ± 4.214 $\chi^2/\text{NDF}: 31.6/31$

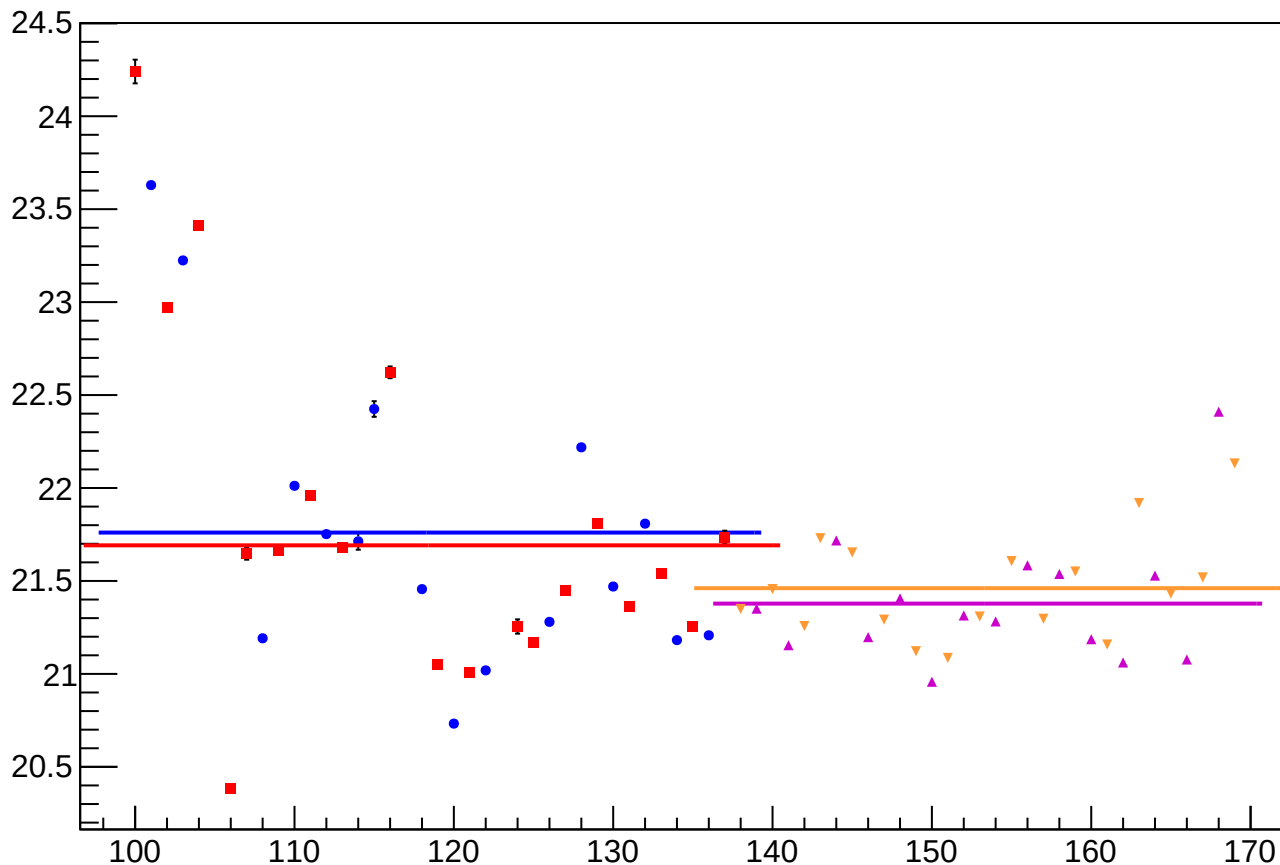
Right: -6.341 ± 5.657 $\chi^2/\text{NDF}: 37.0/34$

In: -5.287 ± 4.855 $\chi^2/\text{NDF}: 32.3/30$

Out: -15.153 ± 4.707 $\chi^2/\text{NDF}: 35.0/35$

All: -10.373 ± 3.379 $\chi^2/\text{NDF}: 69.4/66$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.760 ± 0.006 χ^2/NDF : 19745.7/15

Left Out: 21.461 ± 0.004 χ^2/NDF : 4433.6/16

Right Out: 21.692 ± 0.006 χ^2/NDF : 18330.7/18

Left In: 21.378 ± 0.004 χ^2/NDF : 6257.4/14

Left: 21.421 ± 0.003 χ^2/NDF : 10885.1/31

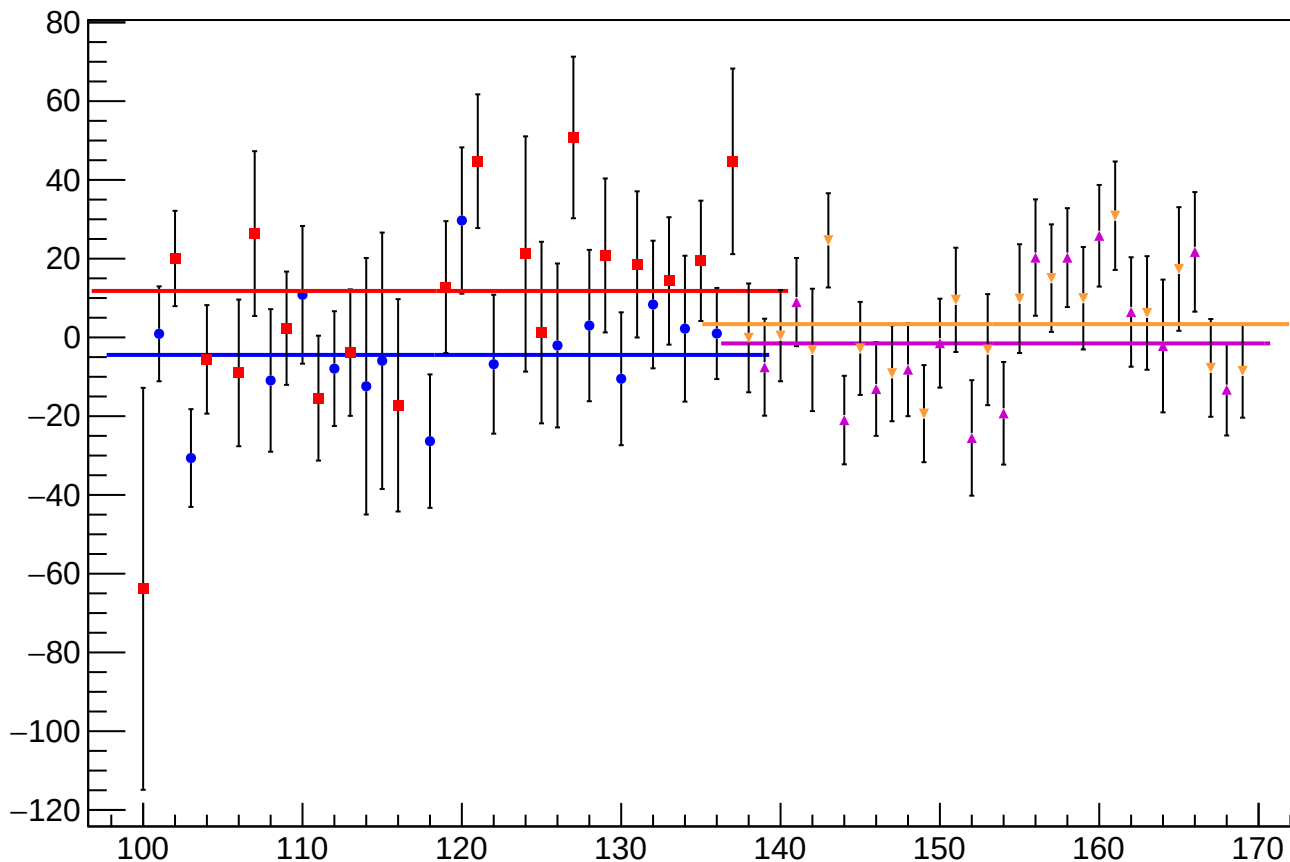
Right: 21.725 ± 0.004 χ^2/NDF : 38150.0/34

In: 21.516 ± 0.003 χ^2/NDF : 28859.4/30

Out: 21.543 ± 0.003 χ^2/NDF : 23859.6/35

All: 21.530 ± 0.002 χ^2/NDF : 52750.6/66

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.440 ± 4.131 χ^2/NDF : 12.0/15

Left Out: 3.379 ± 3.173 χ^2/NDF : 16.5/16

Right Out: 11.807 ± 4.097 χ^2/NDF : 21.7/18

Left In: -1.522 ± 3.290 χ^2/NDF : 23.3/14

Left: 1.017 ± 2.284 χ^2/NDF : 40.9/31

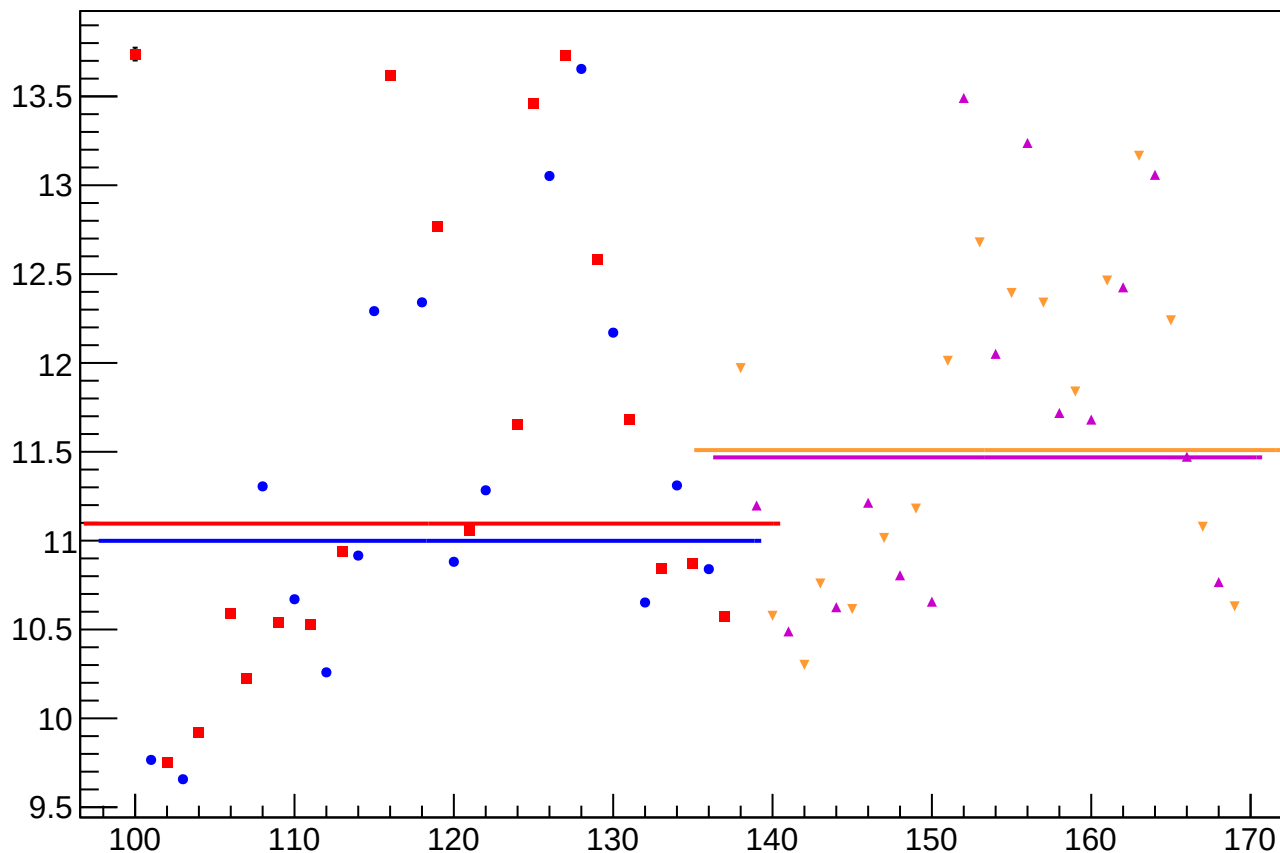
Right: 3.749 ± 2.909 χ^2/NDF : 41.5/34

In: -2.654 ± 2.573 χ^2/NDF : 35.6/30

Out: 6.539 ± 2.509 χ^2/NDF : 40.8/35

All: 2.059 ± 1.796 χ^2/NDF : 83.0/66

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.999 $\pm$ 0.003 χ^2 /NDF: 136159.2/15

Left Out: 11.510 $\pm$ 0.002 χ^2 /NDF:138579.6/16

Right Out: 11.096 $\pm$ 0.003 χ^2 /NDF: 162908.7/18

Left In: 11.469 $\pm$ 0.002 χ^2 /NDF:151663.0/14

Left: 11.490 $\pm$ 0.002 χ^2 /NDF: 290402.8/31

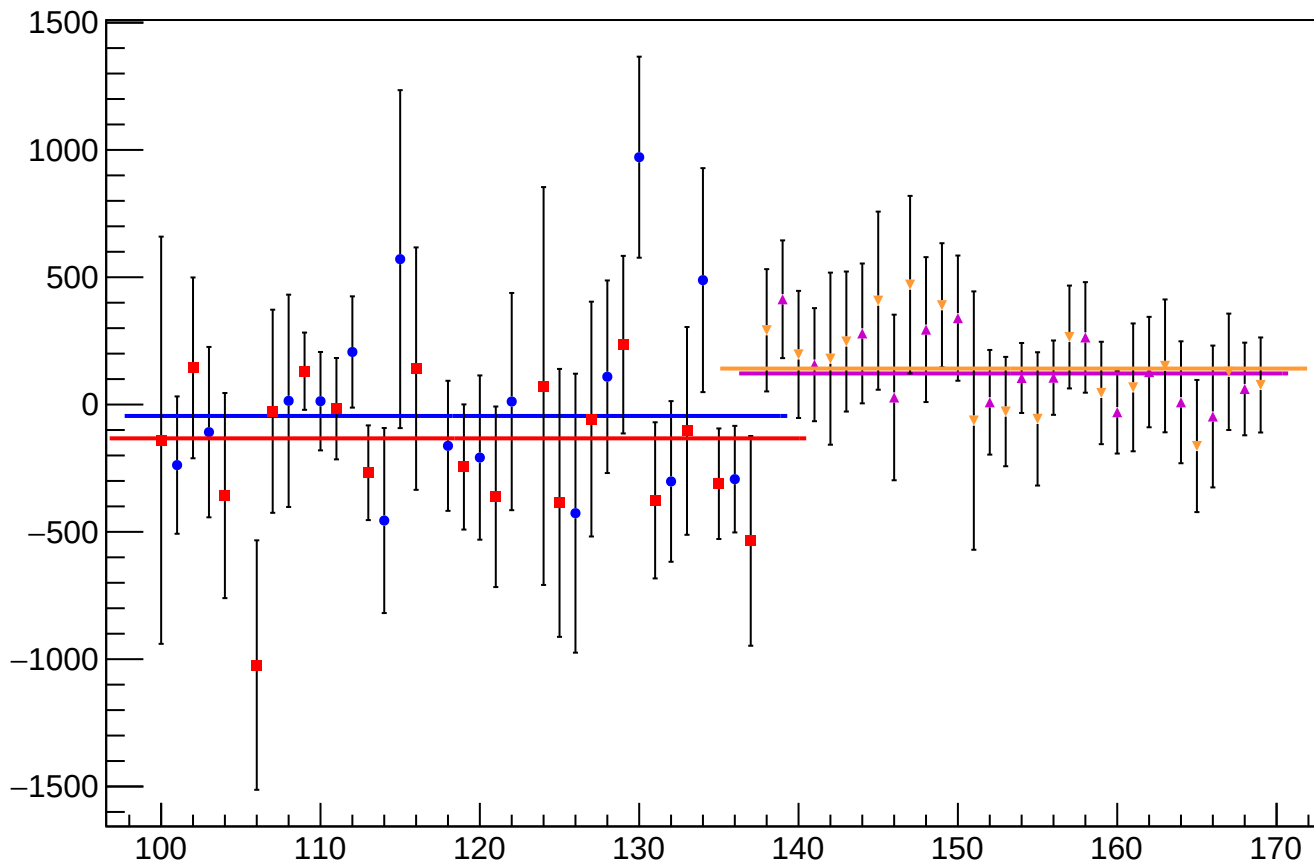
Right: 11.048 $\pm$ 0.002 χ^2 /NDF: 299622.8/34

In: 11.286 $\pm$ 0.002 χ^2 /NDF:303639.5/30

Out: 11.354 $\pm$ 0.002 χ^2 /NDF:314225.8/35

All: 11.321 $\pm$ 0.001 χ^2 /NDF: 618582.8/66

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -44.797 $\pm$ 76.424 χ^2 /NDF: 15.4/15

Left Out: 141.422 $\pm$ 60.715 χ^2 /NDF:6.7/16

Right Out: -132.730 $\pm$ 68.270 χ^2 /NDF: 12.9/18

Left In: 122.189 $\pm$ 53.067 χ^2 /NDF:5.5/14

Left: 130.518 $\pm$ 39.956 χ^2 /NDF: 12.2/31

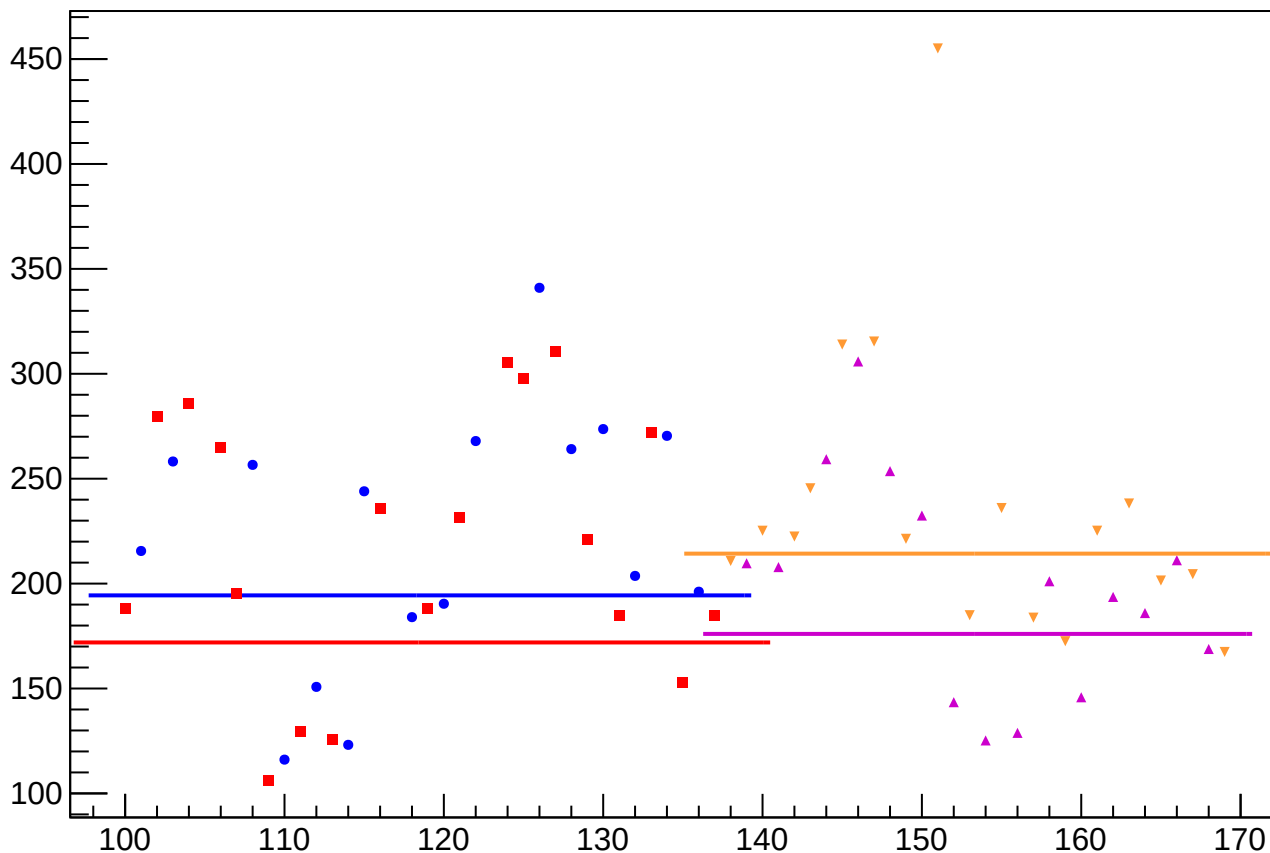
Right: -93.703 $\pm$ 50.914 χ^2 /NDF: 29.0/34

In: 67.866 $\pm$ 43.589 χ^2 /NDF:24.2/30

Out: 20.348 $\pm$ 45.369 χ^2 /NDF:28.5/35

All: 45.057 $\pm$ 31.432 χ^2 /NDF: 53.2/66

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.385 $\pm$ 0.054 χ^2 /NDF: 1042024.1/15

Left Out: 214.283 $\pm$ 0.043 χ^2 /NDF:1151892.7/16

Right Out: 171.949 $\pm$ 0.048 χ^2 /NDF: 1651343.7/18

Left In: 176.022 $\pm$ 0.038 χ^2 /NDF:1519753.1/14

Left: 192.592 $\pm$ 0.028 χ^2 /NDF: 3121888.2/31

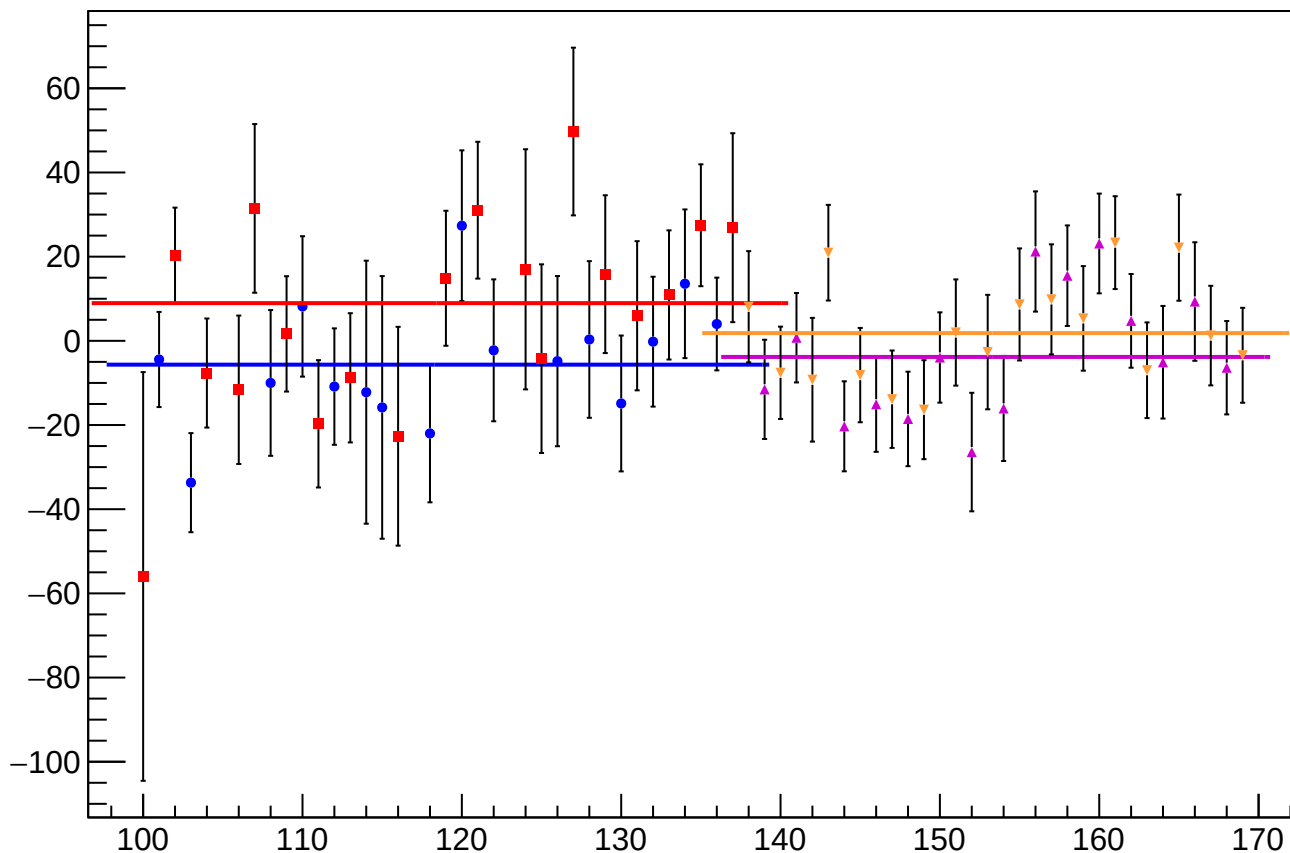
Right: 181.907 $\pm$ 0.036 χ^2 /NDF: 2789239.1/34

In: 181.996 $\pm$ 0.031 χ^2 /NDF:2639680.1/30

Out: 195.587 $\pm$ 0.032 χ^2 /NDF:3232642.6/35

All: 188.520 $\pm$ 0.022 χ^2 /NDF: 5965647.9/66

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.657 ± 3.939 χ^2/NDF : 13.7/15

Left Out: 1.842 ± 2.936 χ^2/NDF : 17.4/16

Right Out: 8.960 ± 3.901 χ^2/NDF : 22.8/18

Left In: -3.824 ± 3.063 χ^2/NDF : 21.6/14

Left: -0.871 ± 2.120 χ^2/NDF : 40.8/31

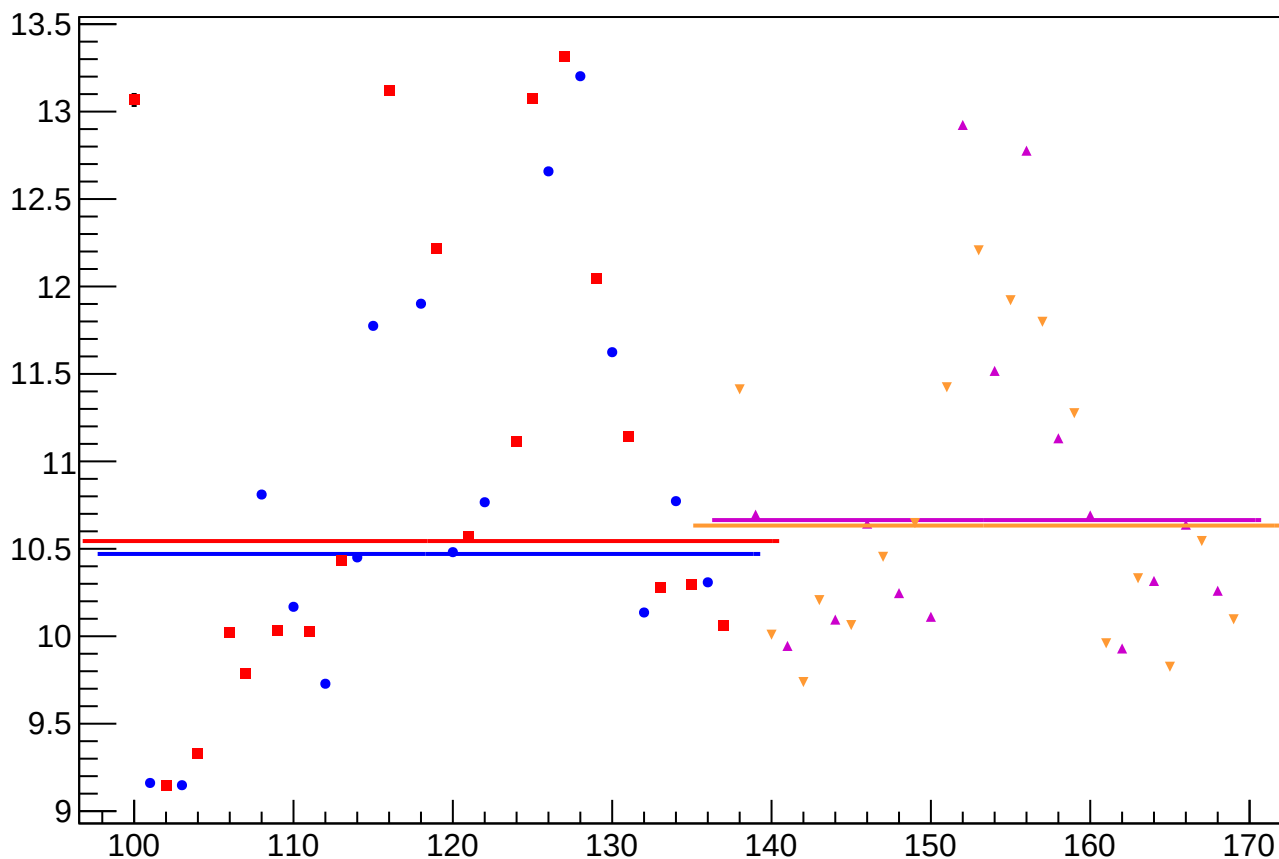
Right: 1.723 ± 2.772 χ^2/NDF : 43.4/34

In: -4.515 ± 2.418 χ^2/NDF : 35.4/30

Out: 4.416 ± 2.346 χ^2/NDF : 42.3/35

All: 0.086 ± 1.684 χ^2/NDF : 84.8/66

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.471+/-0.003 χ^2/NDF : 157365.8/15

Left Out: 10.633+/-0.002 χ^2/NDF : 125586.3/16

Right Out: 10.544+/-0.003 χ^2/NDF : 186780.3/18

Left In: 10.664+/-0.002 χ^2/NDF : 143325.3/14

Left: 10.648+/-0.001 χ^2/NDF : 269021.0/31

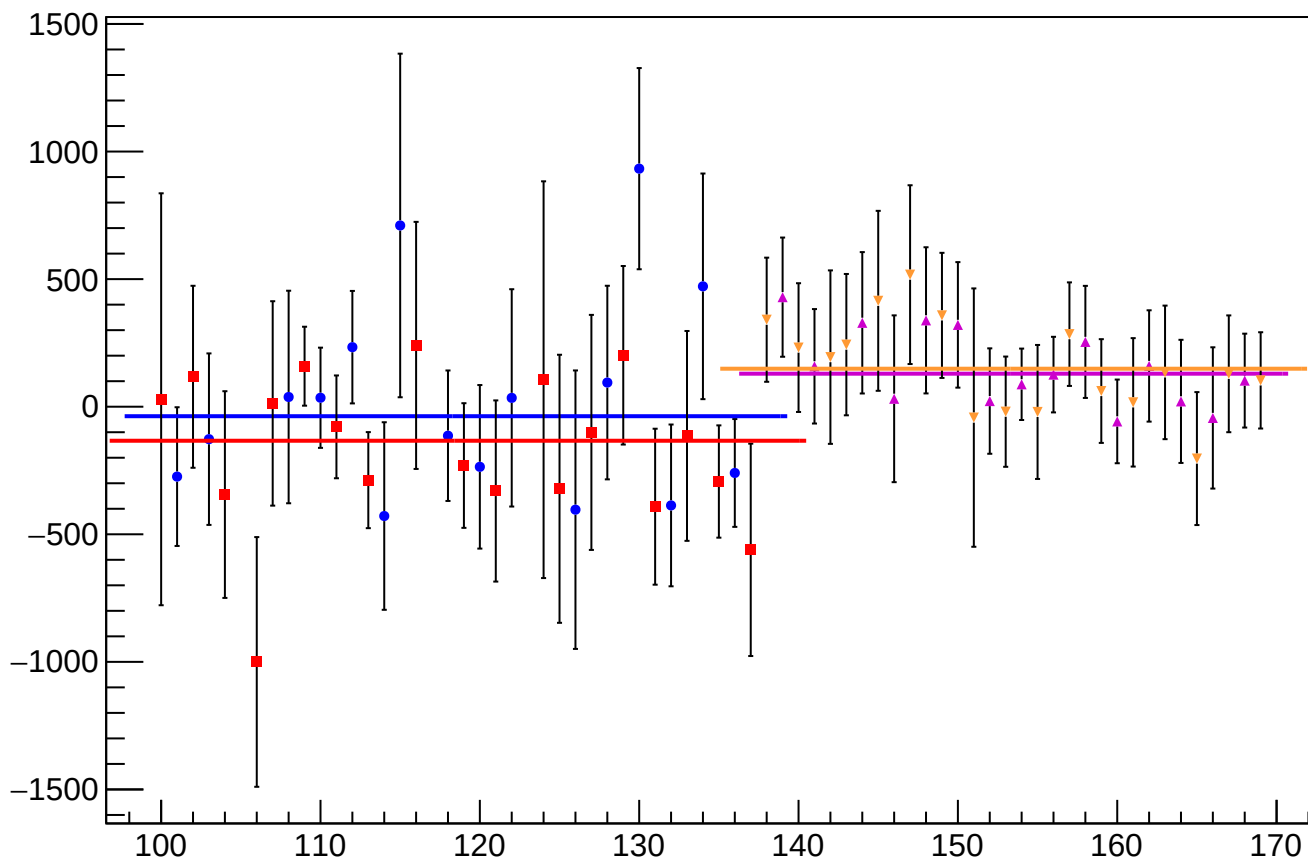
Right: 10.508+/-0.002 χ^2/NDF : 344500.1/34

In: 10.591+/-0.002 χ^2/NDF : 303706.5/30

Out: 10.601+/-0.002 χ^2/NDF : 313025.6/35

All: 10.596+/-0.001 χ^2/NDF : 616748.4/66

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -37.241 ± 76.915 $\chi^2/\text{NDF}: 15.6/15$

Left Out: 148.909 ± 61.113 $\chi^2/\text{NDF}: 7.2/16$

Right Out: -133.386 ± 68.885 $\chi^2/\text{NDF}: 12.9/18$

Left In: 129.406 ± 53.598 $\chi^2/\text{NDF}: 6.0/14$

Left: 137.885 ± 40.296 $\chi^2/\text{NDF}: 13.3/31$

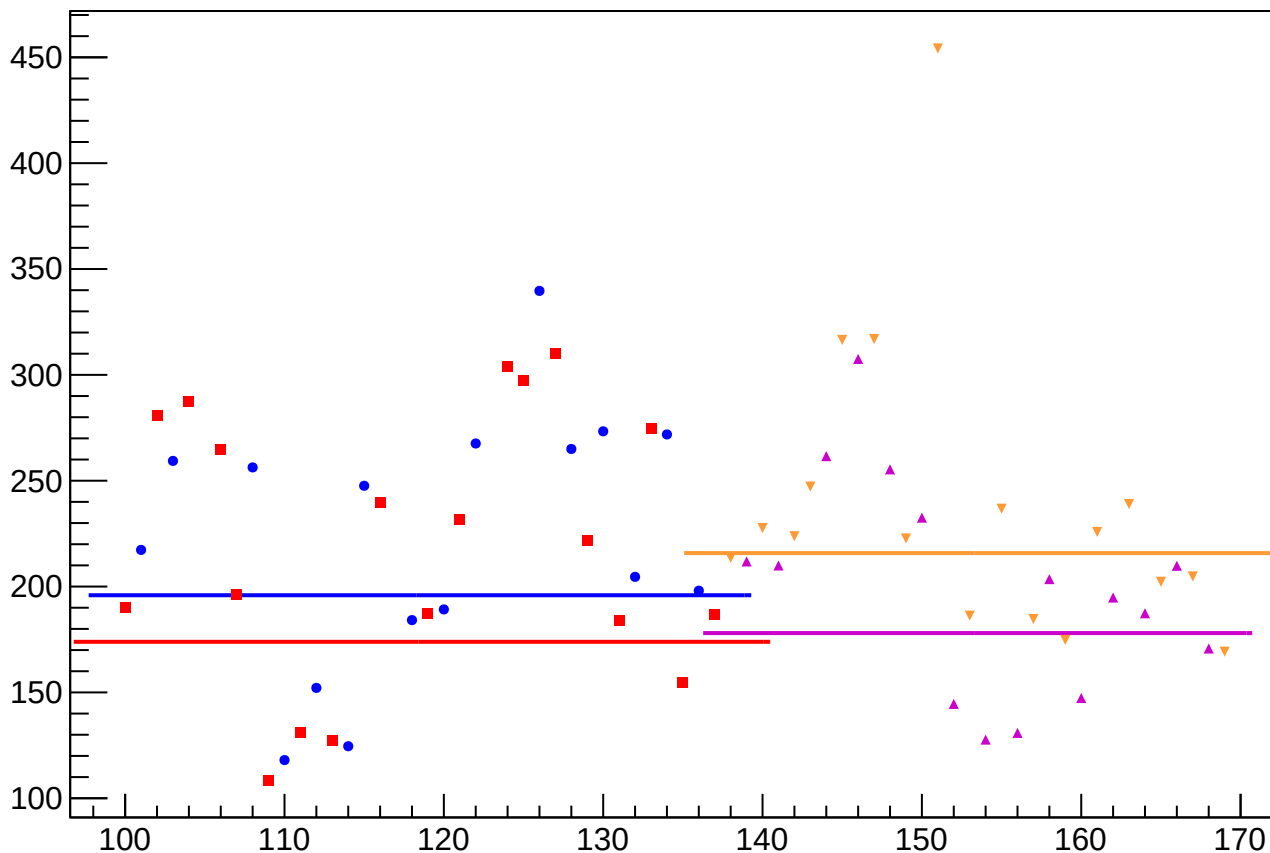
Right: -90.593 ± 51.314 $\chi^2/\text{NDF}: 29.4/34$

In: 74.933 ± 43.974 $\chi^2/\text{NDF}: 24.8/30$

Out: 24.580 ± 45.715 $\chi^2/\text{NDF}: 29.5/35$

All: 50.734 ± 31.692 $\chi^2/\text{NDF}: 55.0/66$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.900+/-0.054 χ^2/NDF : 1011012.3/15

Left Out: 215.824+/-0.043 χ^2/NDF :1135740.0/16

Right Out: 173.901+/-0.049 χ^2/NDF : 1599608.1/18

Left In: 178.028+/-0.038 χ^2/NDF :1477698.6/14

Left: 194.461+/-0.028 χ^2/NDF : 3045823.3/31

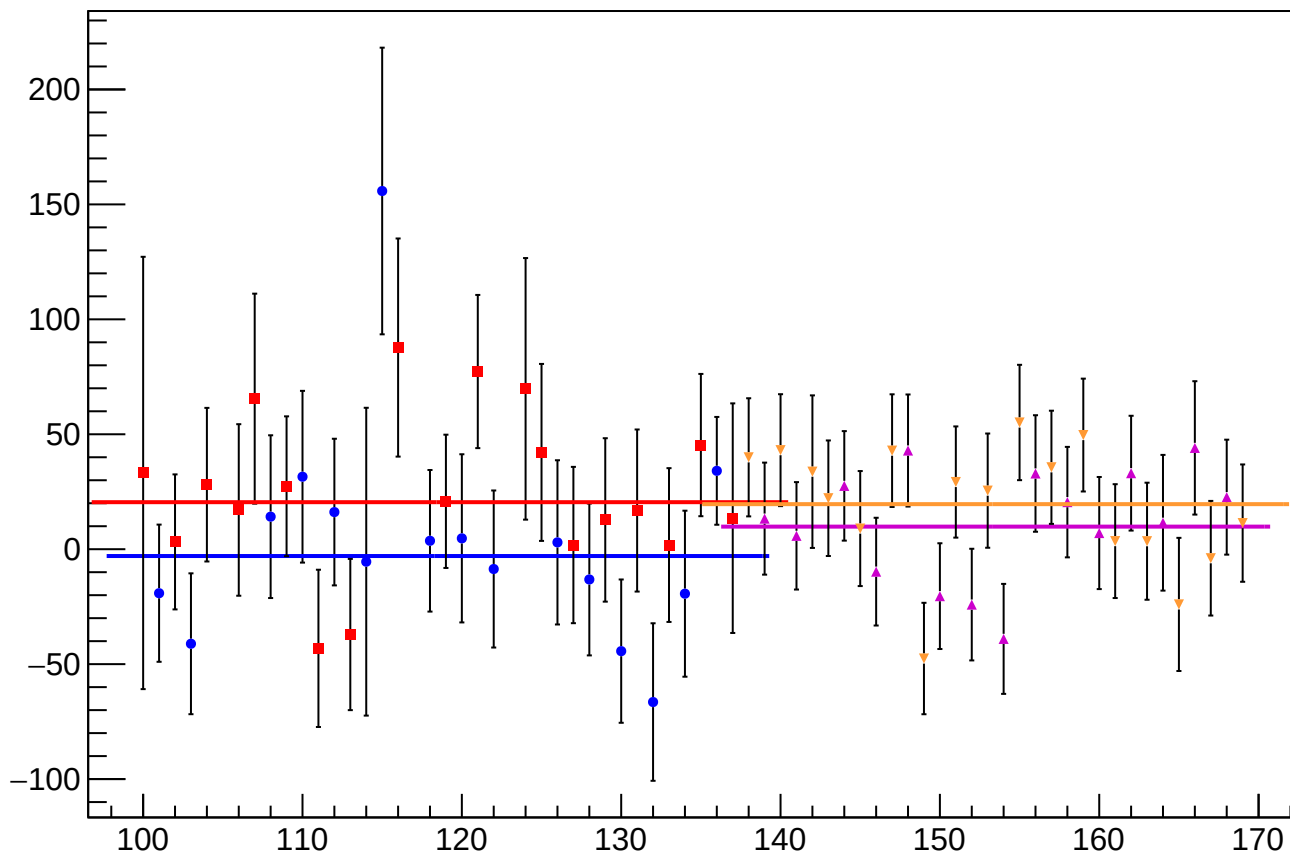
Right: 183.693+/-0.036 χ^2/NDF : 2701402.5/34

In: 183.870+/-0.031 χ^2/NDF :2561390.9/30

Out: 197.360+/-0.032 χ^2/NDF :3149852.6/35

All: 190.353+/-0.022 χ^2/NDF : 5801703.0/66

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.967 ± 8.454 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 19.600 ± 6.155 $\chi^2/\text{NDF}: 18.7/16$

Right Out: 20.457 ± 8.292 $\chi^2/\text{NDF}: 15.3/18$

Left In: 9.824 ± 6.373 $\chi^2/\text{NDF}: 14.6/14$

Left: 14.882 ± 4.427 $\chi^2/\text{NDF}: 34.5/31$

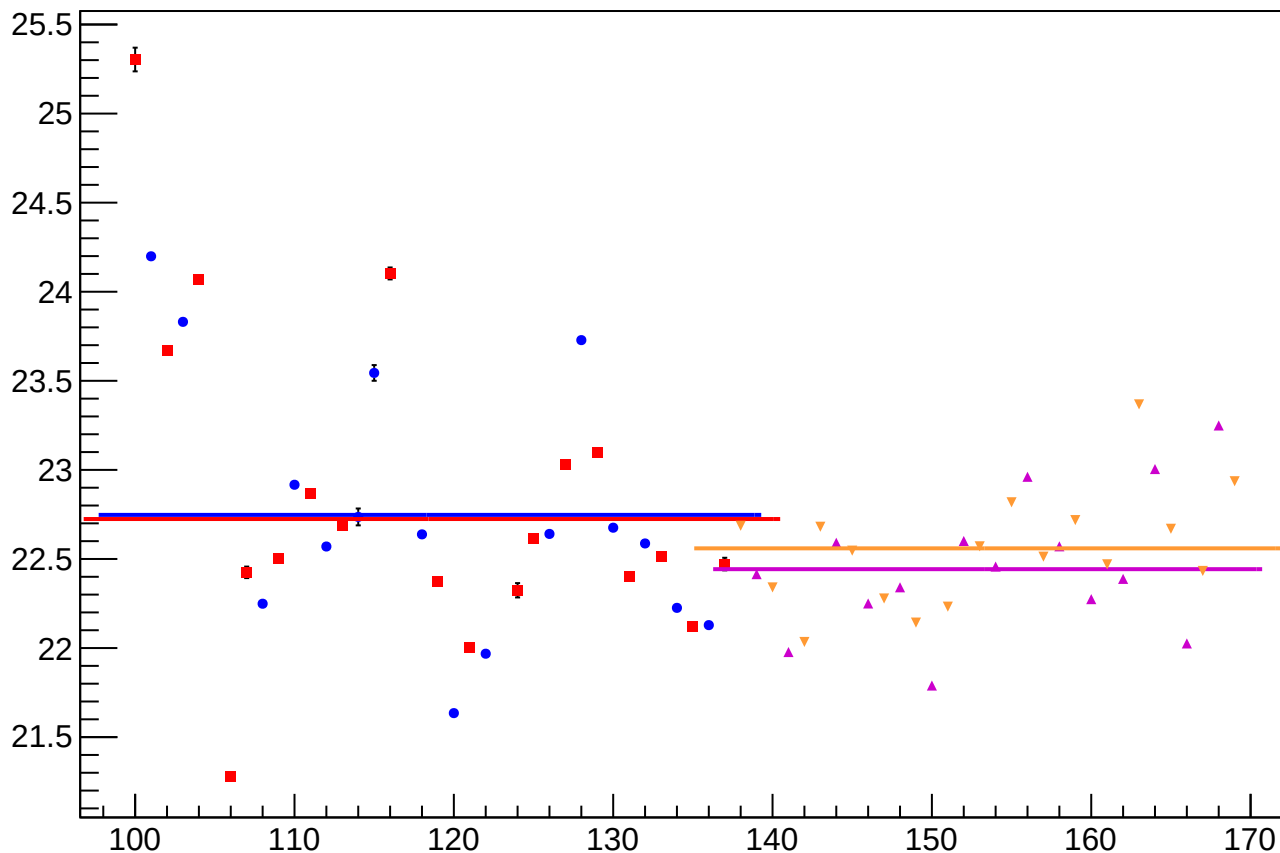
Right: 8.972 ± 5.920 $\chi^2/\text{NDF}: 37.1/34$

In: 5.189 ± 5.089 $\chi^2/\text{NDF}: 33.9/30$

Out: 19.905 ± 4.942 $\chi^2/\text{NDF}: 34.0/35$

All: 12.762 ± 3.545 $\chi^2/\text{NDF}: 72.3/66$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.747 $\pm$ 0.006 χ^2 /NDF: 14622.8/15

Left Out: 22.560 $\pm$ 0.004 χ^2 /NDF:4842.0/16

Right Out: 22.724 $\pm$ 0.006 χ^2 /NDF: 14490.6/18

Left In: 22.443 $\pm$ 0.005 χ^2 /NDF:6958.4/14

Left: 22.503 $\pm$ 0.003 χ^2 /NDF: 12148.3/31

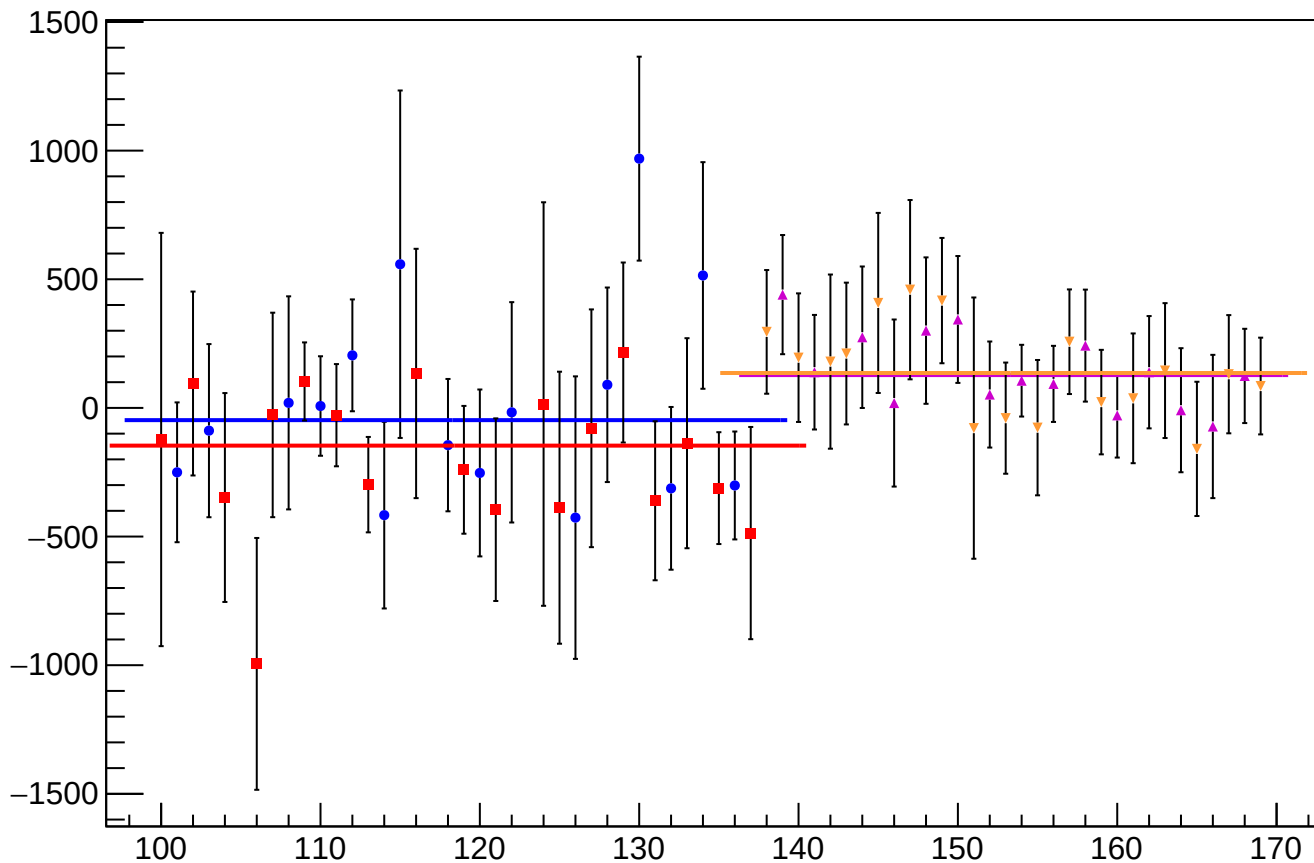
Right: 22.736 $\pm$ 0.004 χ^2 /NDF: 29121.1/34

In: 22.553 $\pm$ 0.004 χ^2 /NDF:23237.9/30

Out: 22.618 $\pm$ 0.003 χ^2 /NDF:19840.9/35

All: 22.587 $\pm$ 0.003 χ^2 /NDF: 43246.3/66

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -47.523+/-76.571 χ^2/NDF : 15.4/15

Left Out: 135.723+/-60.986 χ^2/NDF : 7.1/16

Right Out: -146.573+/-68.398 χ^2/NDF : 11.6/18

Left In: 127.618+/-53.438 χ^2/NDF : 5.6/14

Left: 131.138+/-40.192 χ^2/NDF : 12.7/31

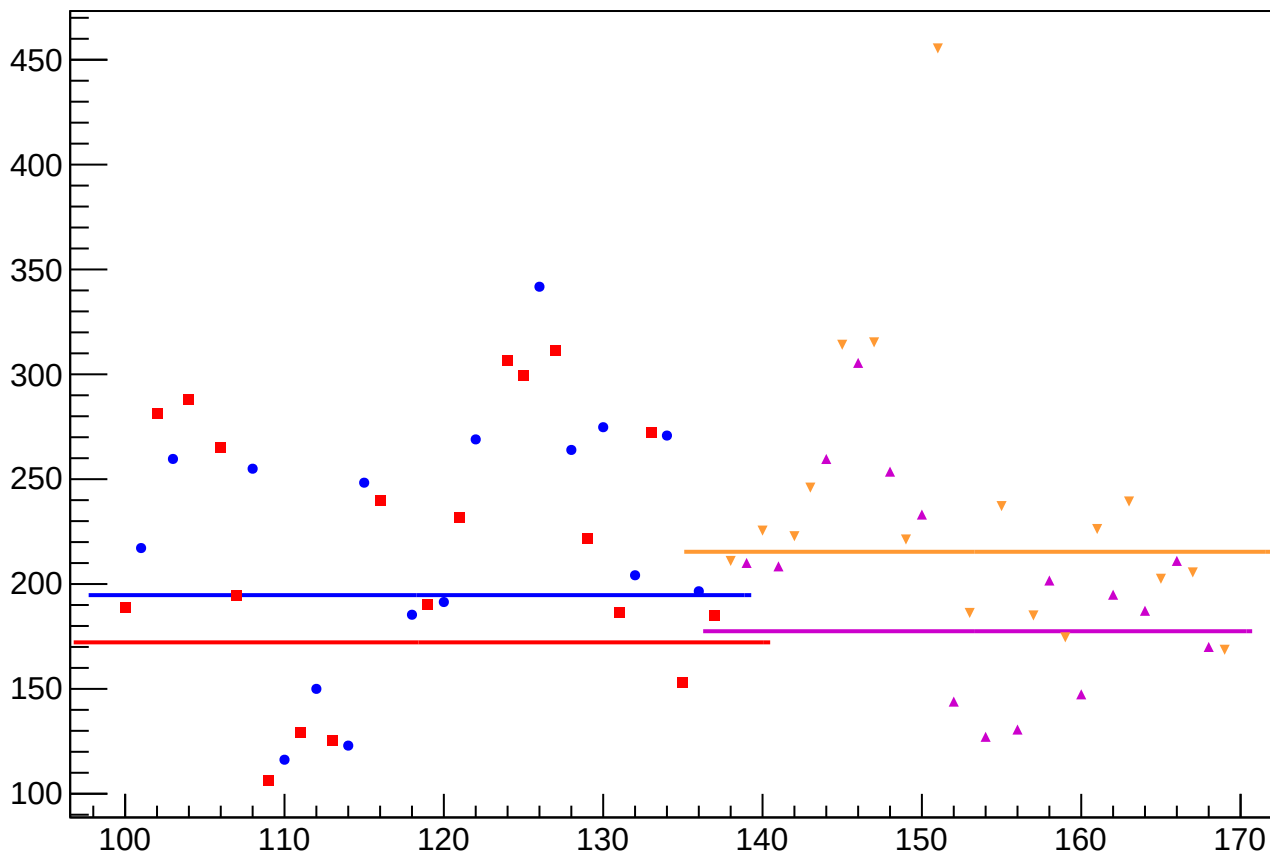
Right: -102.614+/-51.010 χ^2/NDF : 27.9/34

In: 70.255+/-43.822 χ^2/NDF : 24.5/30

Out: 10.694+/-45.519 χ^2/NDF : 28.1/35

All: 41.606+/-31.570 χ^2/NDF : 53.5/66

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 194.708+/-0.054 χ^2/NDF : 1052288.9/15

Left Out: 215.380+/-0.043 χ^2/NDF : 1128925.7/16

Right Out: 172.186+/-0.048 χ^2/NDF : 1671068.3/18

Left In: 177.493+/-0.038 χ^2/NDF : 1467233.6/14

Left: 193.948+/-0.028 χ^2/NDF : 3032798.6/31

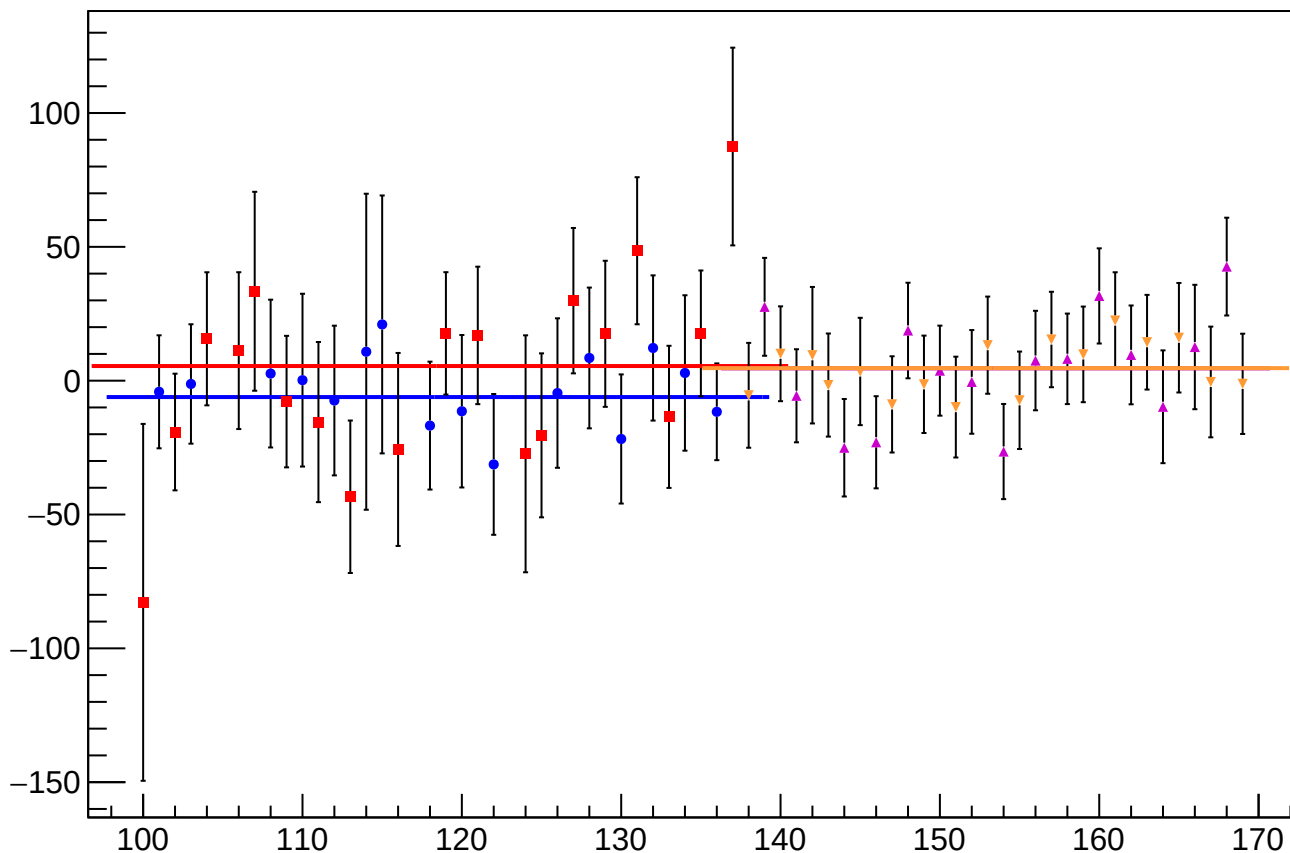
Right: 182.181+/-0.036 χ^2/NDF : 2819594.0/34

In: 183.131+/-0.031 χ^2/NDF : 2587503.6/30

Out: 196.249+/-0.032 χ^2/NDF : 3244343.1/35

All: 189.441+/-0.022 χ^2/NDF : 5918053.7/66

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.119 ± 6.592 χ^2/NDF : 3.1/15

Left Out: 4.689 ± 4.582 χ^2/NDF : 4.6/16

Right Out: 5.470 ± 6.509 χ^2/NDF : 19.2/18

Left In: 4.590 ± 4.725 χ^2/NDF : 18.3/14

Left: 4.641 ± 3.290 χ^2/NDF : 22.9/31

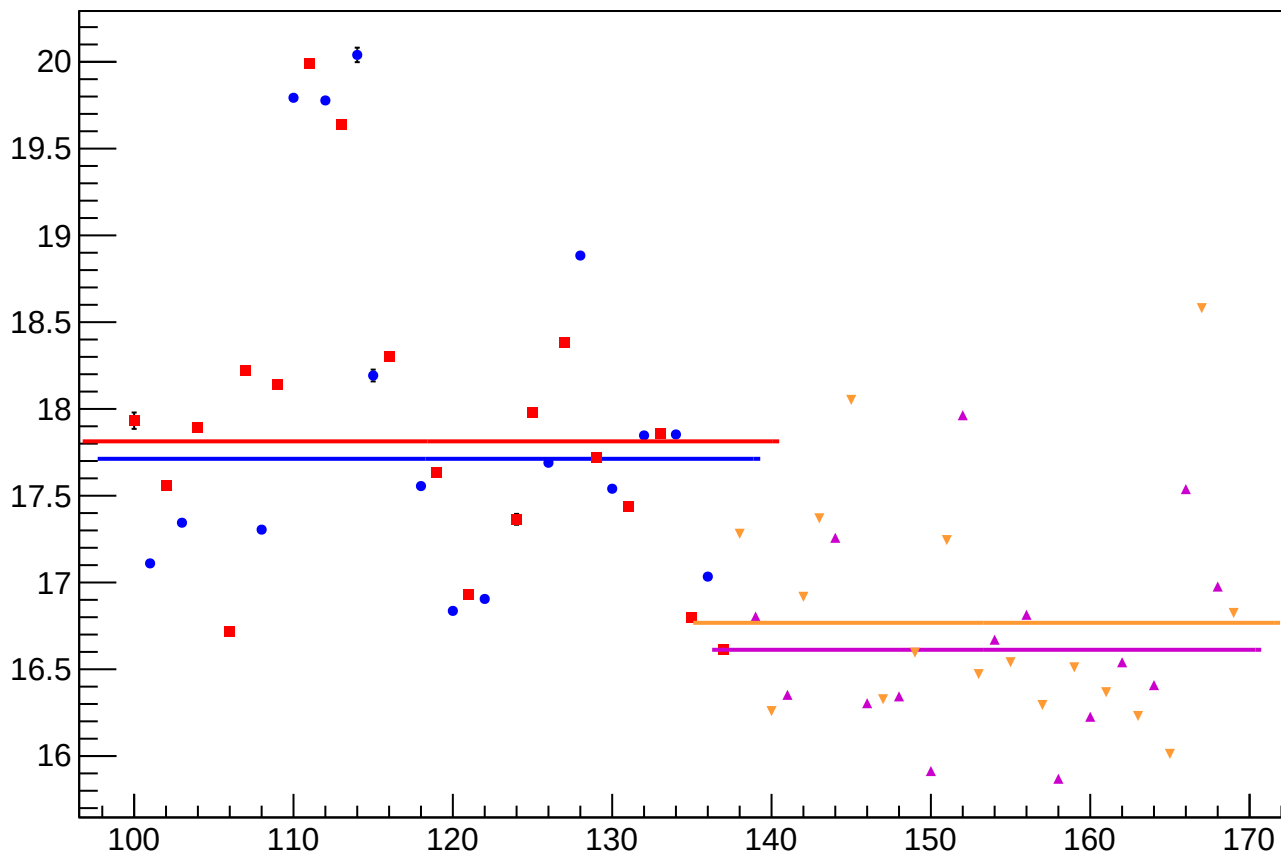
Right: -0.251 ± 4.632 χ^2/NDF : 23.9/34

In: 0.955 ± 3.841 χ^2/NDF : 23.1/30

Out: 4.948 ± 3.747 χ^2/NDF : 23.8/35

All: 3.001 ± 2.682 χ^2/NDF : 47.5/66

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.713 $\pm$ 0.005 χ^2 /NDF: 35983.5/15

Left Out: 16.768 $\pm$ 0.003 χ^2 /NDF:39514.3/16

Right Out: 17.813 $\pm$ 0.005 χ^2 /NDF: 32713.6/18

Left In: 16.612 $\pm$ 0.003 χ^2 /NDF:26704.0/14

Left: 16.692 $\pm$ 0.002 χ^2 /NDF: 67333.0/31

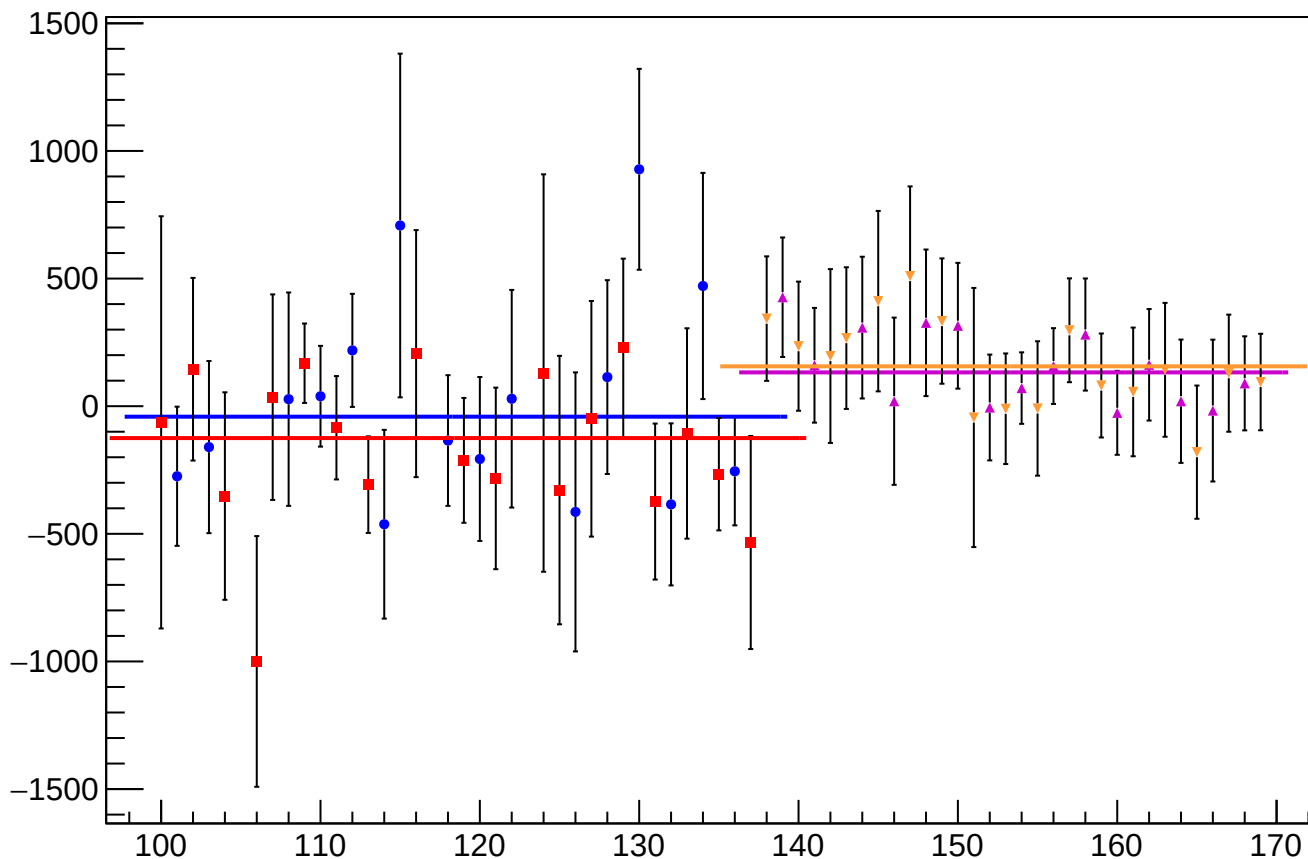
Right: 17.764 $\pm$ 0.003 χ^2 /NDF: 68933.0/34

In: 16.986 $\pm$ 0.003 χ^2 /NDF:99496.7/30

Out: 17.114 $\pm$ 0.003 χ^2 /NDF:106735.1/35

All: 17.052 $\pm$ 0.002 χ^2 /NDF: 207377.3/66

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -41.114 $\pm$ 77.139 χ^2 /NDF: 15.6/15

Left Out: 156.097 $\pm$ 61.246 χ^2 /NDF:6.6/16

Right Out: -124.872 $\pm$ 69.109 χ^2 /NDF: 12.9/18

Left In: 132.434 $\pm$ 53.703 χ^2 /NDF:5.8/14

Left: 142.719 $\pm$ 40.378 χ^2 /NDF: 12.4/31

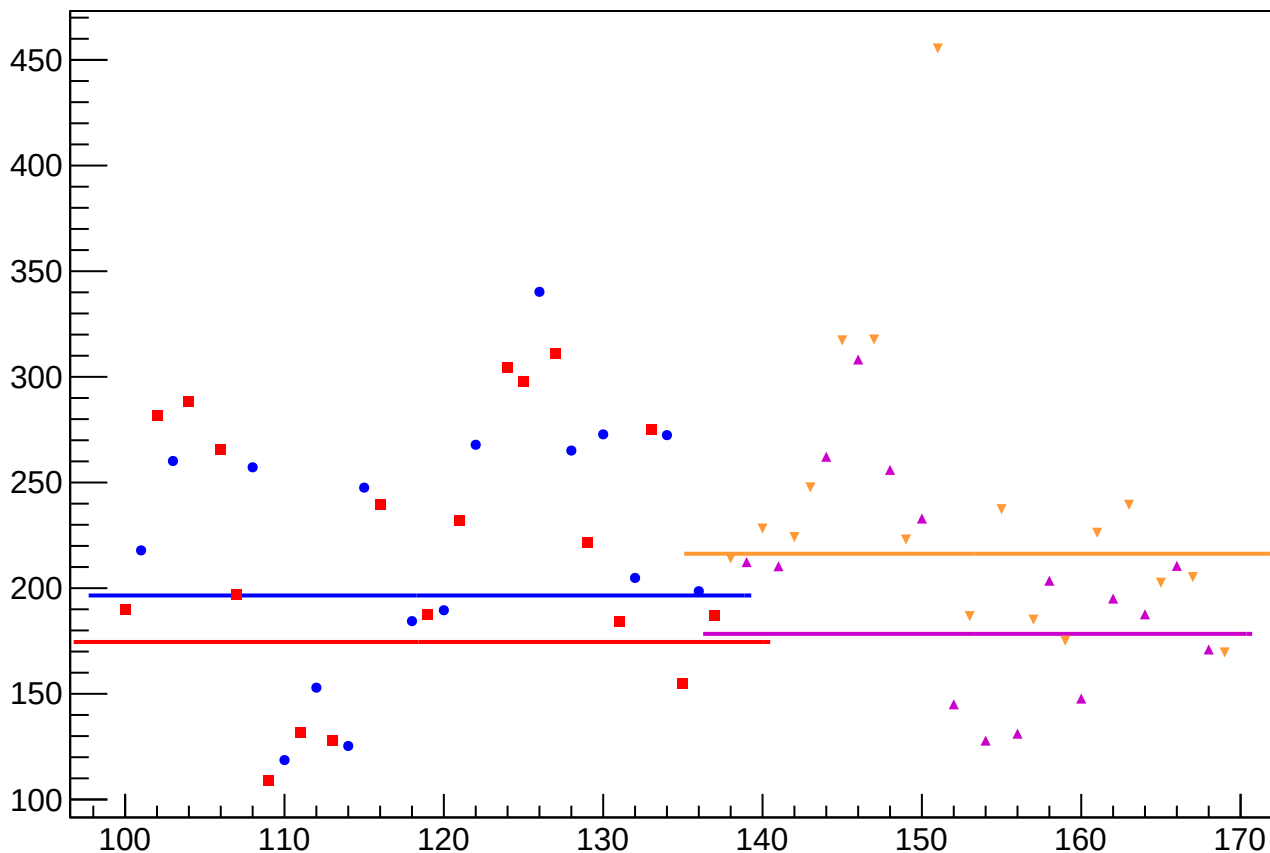
Right: -87.579 $\pm$ 51.473 χ^2 /NDF: 29.1/34

In: 75.779 $\pm$ 44.074 χ^2 /NDF:24.8/30

Out: 32.499 $\pm$ 45.836 χ^2 /NDF:28.7/35

All: 54.987 $\pm$ 31.770 χ^2 /NDF: 54.0/66

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 196.542 $\pm$ 0.055 χ^2 /NDF: 1000770.4/15

Left Out: 216.289 $\pm$ 0.043 χ^2 /NDF:1136107.5/16

Right Out: 174.540 $\pm$ 0.049 χ^2 /NDF: 1588725.2/18

Left In: 178.373 $\pm$ 0.038 χ^2 /NDF:1477702.0/14

Left: 194.854 $\pm$ 0.029 χ^2 /NDF: 3047167.7/31

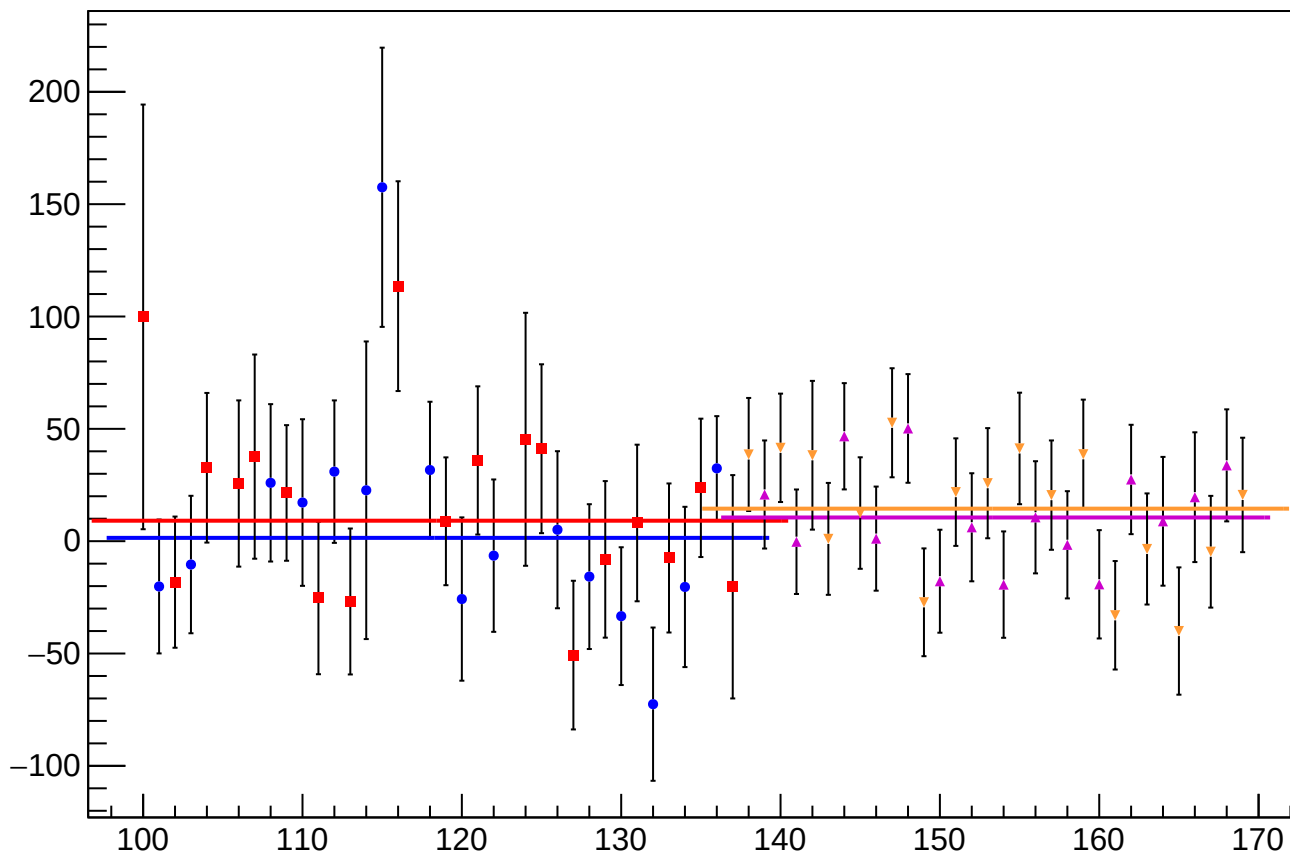
Right: 184.337 $\pm$ 0.036 χ^2 /NDF: 2679758.7/34

In: 184.304 $\pm$ 0.031 χ^2 /NDF:2553208.2/30

Out: 197.924 $\pm$ 0.032 χ^2 /NDF:3133656.9/35

All: 190.847 $\pm$ 0.022 χ^2 /NDF: 5778615.8/66

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.475 $\pm$ 8.370 χ^2 /NDF: 18.7/15

Left Out: 14.477 $\pm$ 6.080 χ^2 /NDF:19.8/16

Right Out: 9.113 $\pm$ 8.198 χ^2 /NDF: 16.5/18

Left In: 10.547 $\pm$ 6.306 χ^2 /NDF:12.0/14

Left: 12.583 $\pm$ 4.377 χ^2 /NDF: 31.9/31

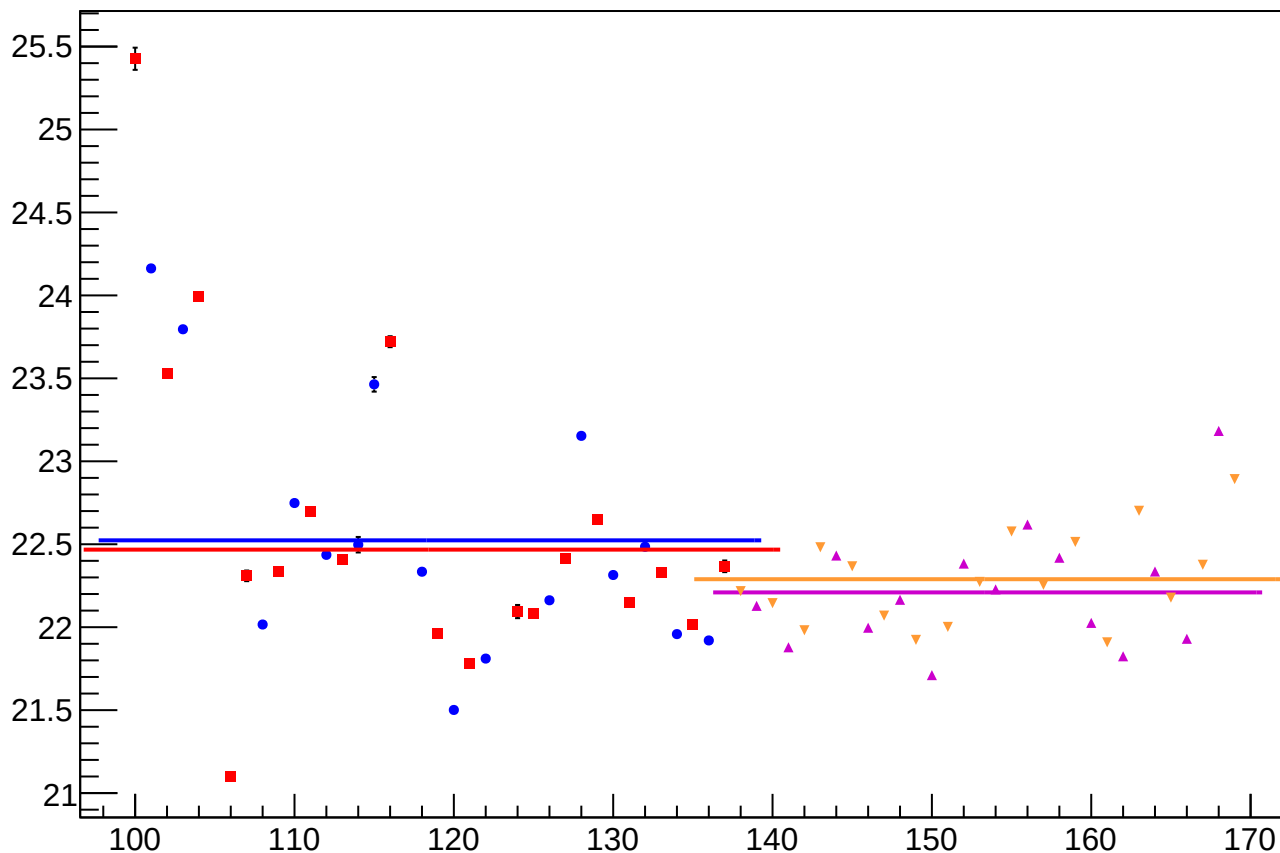
Right: 5.374 $\pm$ 5.857 χ^2 /NDF: 35.6/34

In: 7.263 $\pm$ 5.037 χ^2 /NDF:31.4/30

Out: 12.573 $\pm$ 4.884 χ^2 /NDF:36.5/35

All: 10.000 $\pm$ 3.506 χ^2 /NDF: 68.5/66

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.524 $\pm$ 0.006 χ^2 /NDF: 15947.8/15

Left Out: 22.289 $\pm$ 0.004 χ^2 /NDF: 3991.6/16

Right Out: 22.468 $\pm$ 0.006 χ^2 /NDF: 15626.5/18

Left In: 22.210 $\pm$ 0.004 χ^2 /NDF: 6412.3/14

Left: 22.251 $\pm$ 0.003 χ^2 /NDF: 10569.0/31

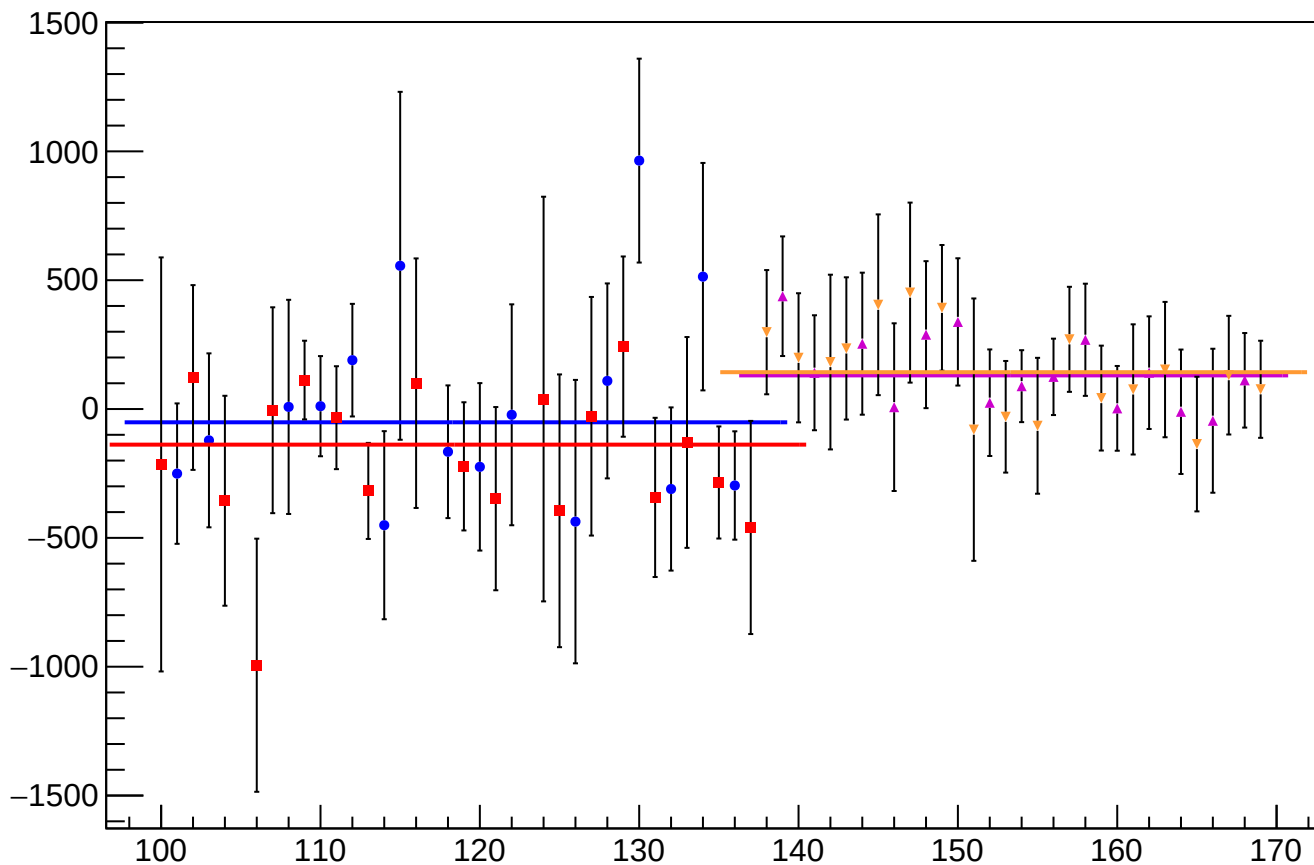
Right: 22.495 $\pm$ 0.004 χ^2 /NDF: 31619.9/34

In: 22.323 $\pm$ 0.004 χ^2 /NDF: 24154.4/30

Out: 22.353 $\pm$ 0.003 χ^2 /NDF: 20228.5/35

All: 22.338 $\pm$ 0.002 χ^2 /NDF: 44417.7/66

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -51.492 ± 76.798 $\chi^2/\text{NDF}: 15.3/15$

Left Out: 142.989 ± 61.118 $\chi^2/\text{NDF}: 6.4/16$

Right Out: -138.184 ± 68.625 $\chi^2/\text{NDF}: 11.6/18$

Left In: 130.536 ± 53.542 $\chi^2/\text{NDF}: 5.2/14$

Left: 135.943 ± 40.274 $\chi^2/\text{NDF}: 11.6/31$

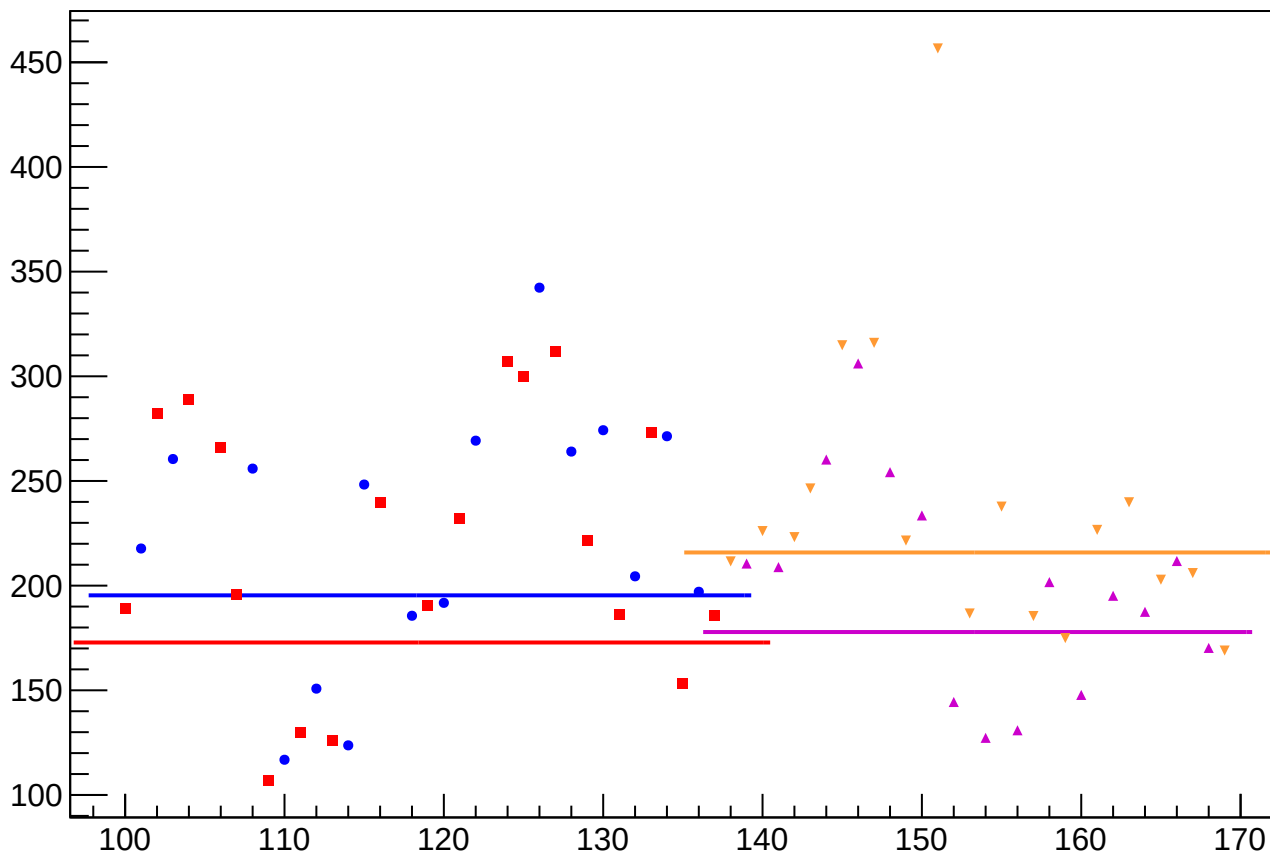
Right: -99.695 ± 51.171 $\chi^2/\text{NDF}: 27.7/34$

In: 70.998 ± 43.921 $\chi^2/\text{NDF}: 24.3/30$

Out: 18.615 ± 45.641 $\chi^2/\text{NDF}: 27.4/35$

All: 45.812 ± 31.648 $\chi^2/\text{NDF}: 52.4/66$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 195.361+/-0.054 χ^2/NDF : 1041432.1/15

Left Out: 215.845+/-0.043 χ^2/NDF : 1129291.5/16

Right Out: 172.837+/-0.049 χ^2/NDF : 1659430.2/18

Left In: 177.835+/-0.038 χ^2/NDF : 1467361.5/14

Left: 194.339+/-0.028 χ^2/NDF : 3034306.1/31

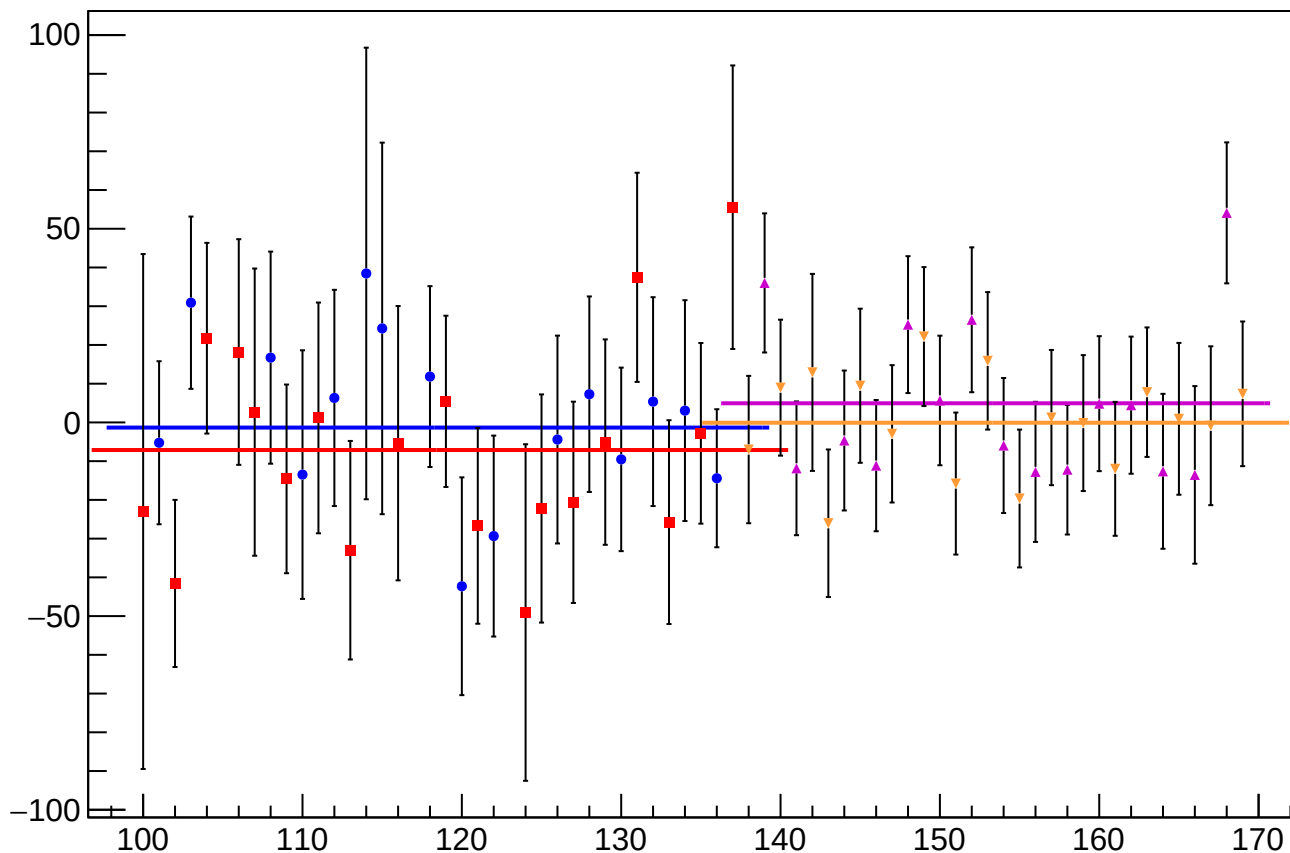
Right: 182.837+/-0.036 χ^2/NDF : 2796519.3/34

In: 183.567+/-0.031 χ^2/NDF : 2578882.5/30

Out: 196.821+/-0.032 χ^2/NDF : 3226785.3/35

All: 189.940+/-0.022 χ^2/NDF : 5893225.7/66

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.331 ± 6.499 χ^2/NDF : 8.0/15

Left Out: -0.082 ± 4.484 χ^2/NDF : 7.9/16

Right Out: -7.126 ± 6.402 χ^2/NDF : 14.4/18

Left In: 4.942 ± 4.639 χ^2/NDF : 18.9/14

Left: 2.345 ± 3.224 χ^2/NDF : 27.4/31

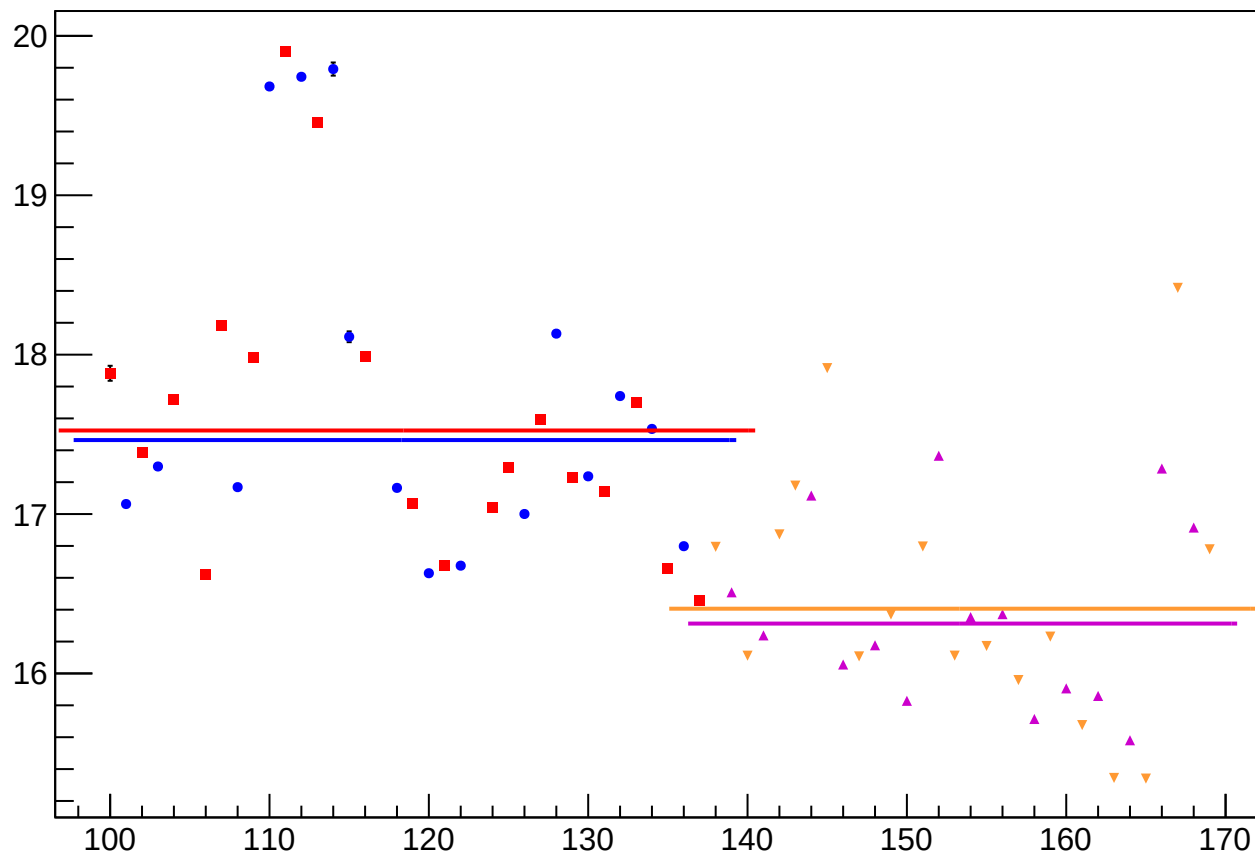
Right: -4.272 ± 4.561 χ^2/NDF : 22.8/34

In: 2.825 ± 3.776 χ^2/NDF : 27.5/30

Out: -2.400 ± 3.673 χ^2/NDF : 23.2/35

All: 0.140 ± 2.633 χ^2/NDF : 51.7/66

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.464 $\pm$ 0.005 χ^2 /NDF: 36650.1/15

Left Out: 16.406 $\pm$ 0.003 χ^2 /NDF: 58385.5/16

Right Out: 17.524 $\pm$ 0.005 χ^2 /NDF: 34726.0/18

Left In: 16.313 $\pm$ 0.003 χ^2 /NDF: 26289.4/14

Left: 16.361 $\pm$ 0.002 χ^2 /NDF: 85093.7/31

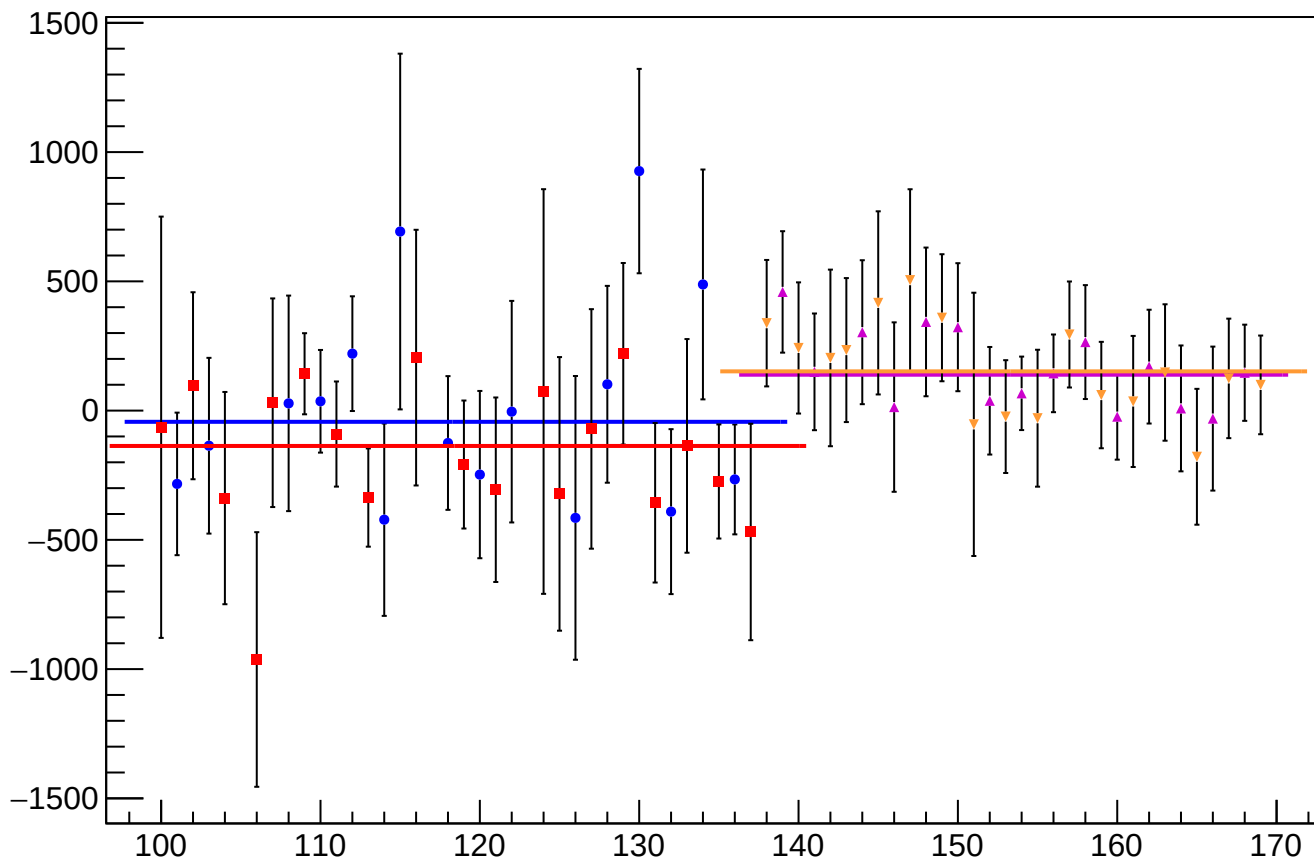
Right: 17.495 $\pm$ 0.003 χ^2 /NDF: 71463.1/34

In: 16.702 $\pm$ 0.003 χ^2 /NDF: 104522.4/30

Out: 16.774 $\pm$ 0.003 χ^2 /NDF: 134039.1/35

All: 16.739 $\pm$ 0.002 χ^2 /NDF: 238942.3/66

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -43.384+/-77.584 χ^2/NDF : 15.5/15

Left Out: 151.806+/-61.616 χ^2/NDF : 6.9/16

Right Out: -136.778+/-69.557 χ^2/NDF : 11.5/18

Left In: 138.817+/-54.128 χ^2/NDF : 5.9/14

Left: 144.475+/-40.665 χ^2/NDF : 12.8/31

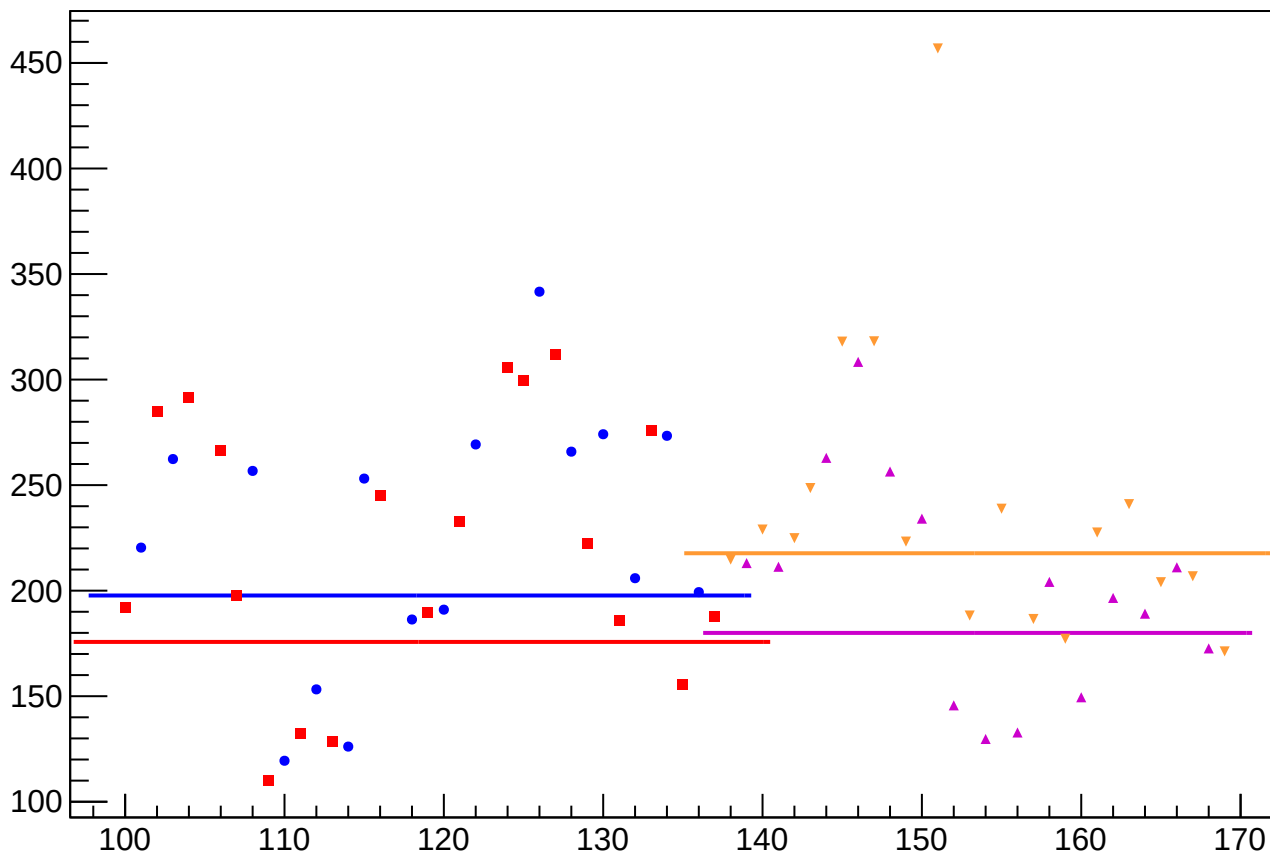
Right: -95.161+/-51.790 χ^2/NDF : 27.8/34

In: 79.166+/-44.392 χ^2/NDF : 25.0/30

Out: 24.921+/-46.122 χ^2/NDF : 28.1/35

All: 53.080+/-31.984 χ^2/NDF : 53.9/66

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 197.707+/-0.055 χ^2/NDF : 1000324.6/15

Left Out: 217.722+/-0.044 χ^2/NDF : 1115021.4/16

Right Out: 175.716+/-0.049 χ^2/NDF : 1590559.8/18

Left In: 179.982+/-0.038 χ^2/NDF : 1434587.8/14

Left: 196.421+/-0.029 χ^2/NDF : 2973107.8/31

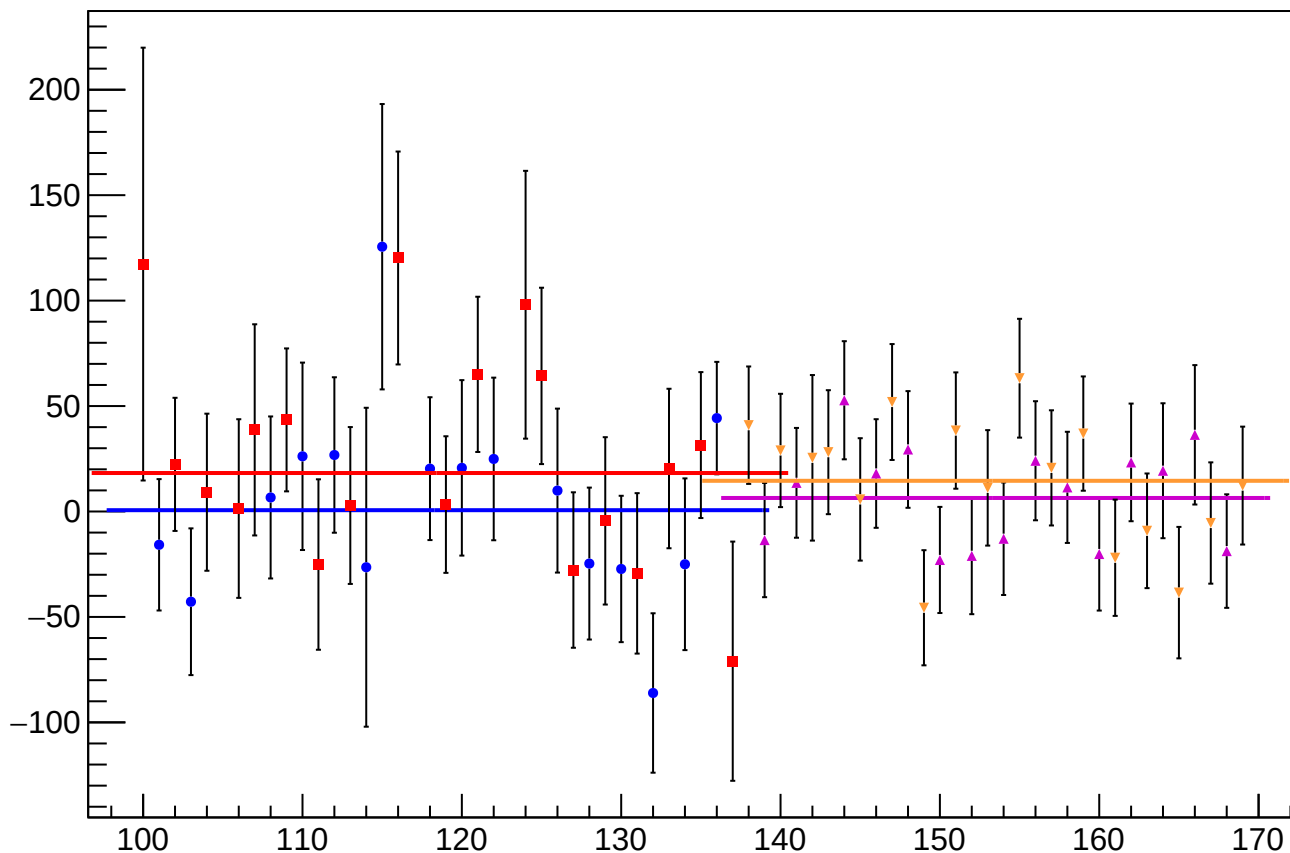
Right: 185.515+/-0.037 χ^2/NDF : 2679972.8/34

In: 185.785+/-0.031 χ^2/NDF : 2505125.0/30

Out: 199.253+/-0.033 χ^2/NDF : 3114300.5/35

All: 192.262+/-0.023 χ^2/NDF : 5707943.6/66

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.619 $\pm$ 9.421 χ^2 /NDF: 16.7/15

Left Out: 14.554 $\pm$ 6.879 χ^2 /NDF:18.7/16

Right Out: 18.248 $\pm$ 9.208 χ^2 /NDF: 18.0/18

Left In: 6.412 $\pm$ 7.096 χ^2 /NDF:10.8/14

Left: 10.609 $\pm$ 4.939 χ^2 /NDF: 30.1/31

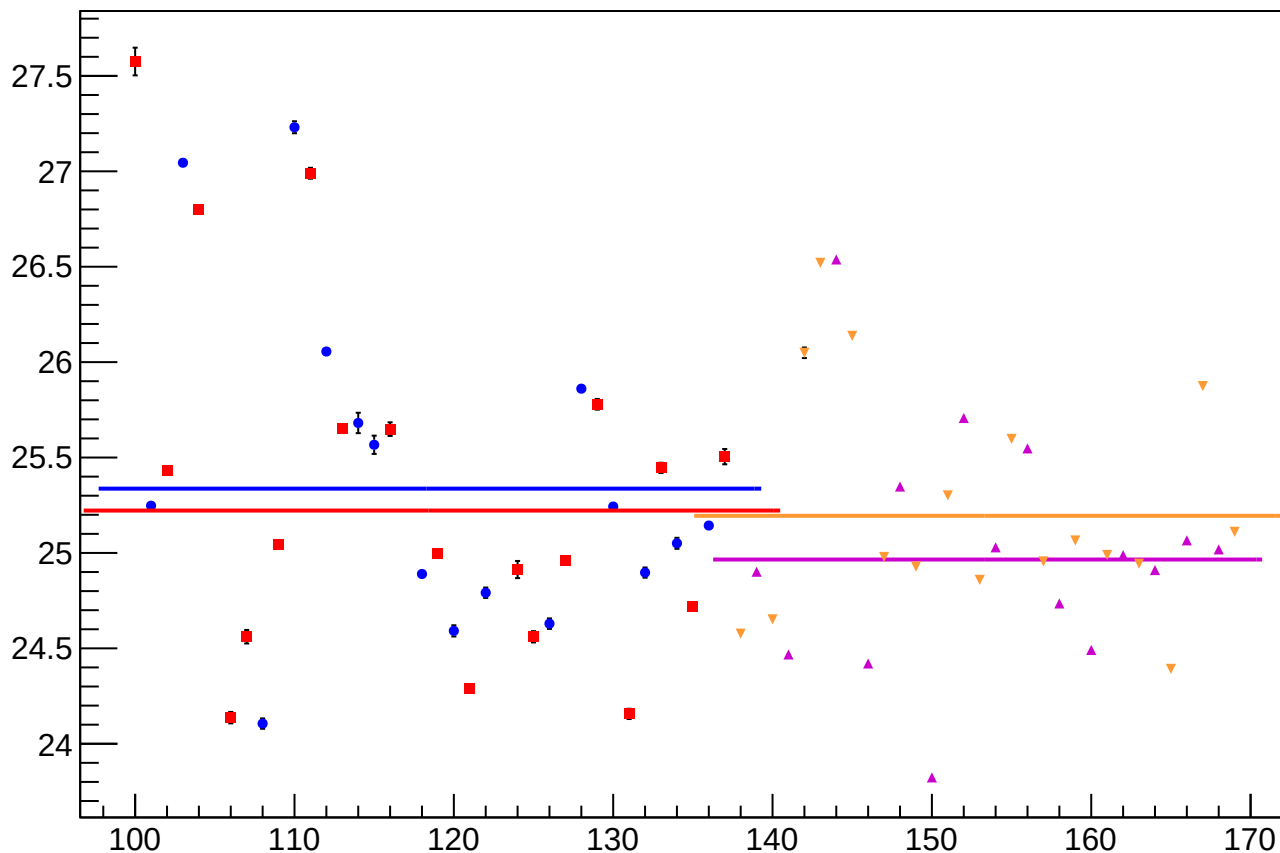
Right: 9.635 $\pm$ 6.585 χ^2 /NDF: 36.5/34

In: 4.315 $\pm$ 5.668 χ^2 /NDF:27.7/30

Out: 15.877 $\pm$ 5.511 χ^2 /NDF:36.7/35

All: 10.259 $\pm$ 3.951 χ^2 /NDF: 66.6/66

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 25.337+/-0.007 χ^2/NDF : 14315.0/15

Left Out: 25.195+/-0.005 χ^2/NDF :12921.0/16

Right Out: 25.222+/-0.007 χ^2/NDF : 15224.4/18

Left In: 24.966+/-0.005 χ^2/NDF :15551.9/14

Left: 25.084+/-0.003 χ^2/NDF : 29547.9/31

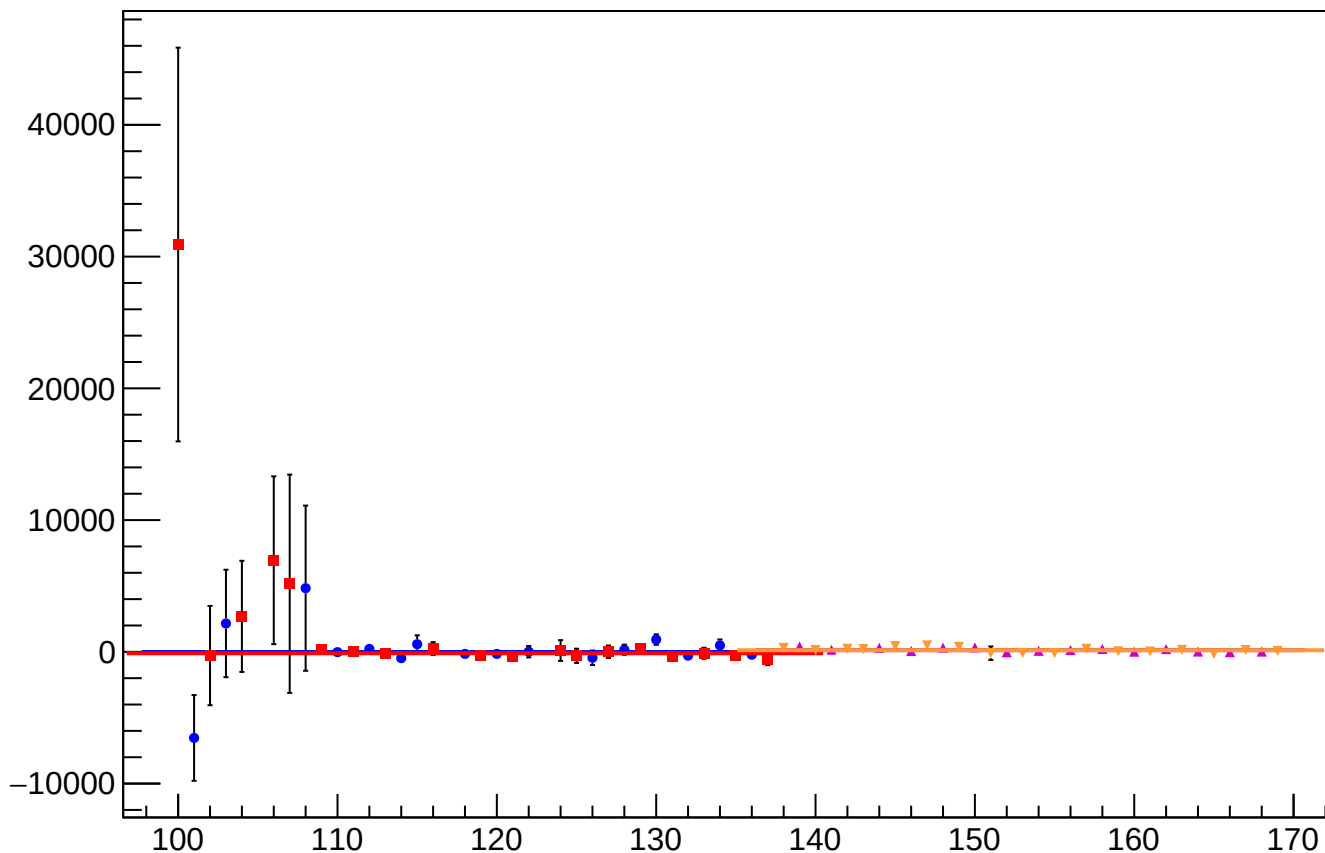
Right: 25.278+/-0.005 χ^2/NDF : 29691.5/34

In: 25.100+/-0.004 χ^2/NDF :31851.0/30

Out: 25.204+/-0.004 χ^2/NDF :28156.9/35

All: 25.154+/-0.003 χ^2/NDF : 60357.5/66

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -15.450 ± 84.701 $\chi^2/\text{NDF}: 18.3/15$

Left Out: 122.147 ± 62.203 $\chi^2/\text{NDF}: 7.1/16$

Right Out: -108.825 ± 78.099 $\chi^2/\text{NDF}: 14.0/18$

Left In: 129.483 ± 54.931 $\chi^2/\text{NDF}: 5.4/14$

Left: 126.269 ± 41.174 $\chi^2/\text{NDF}: 12.5/31$

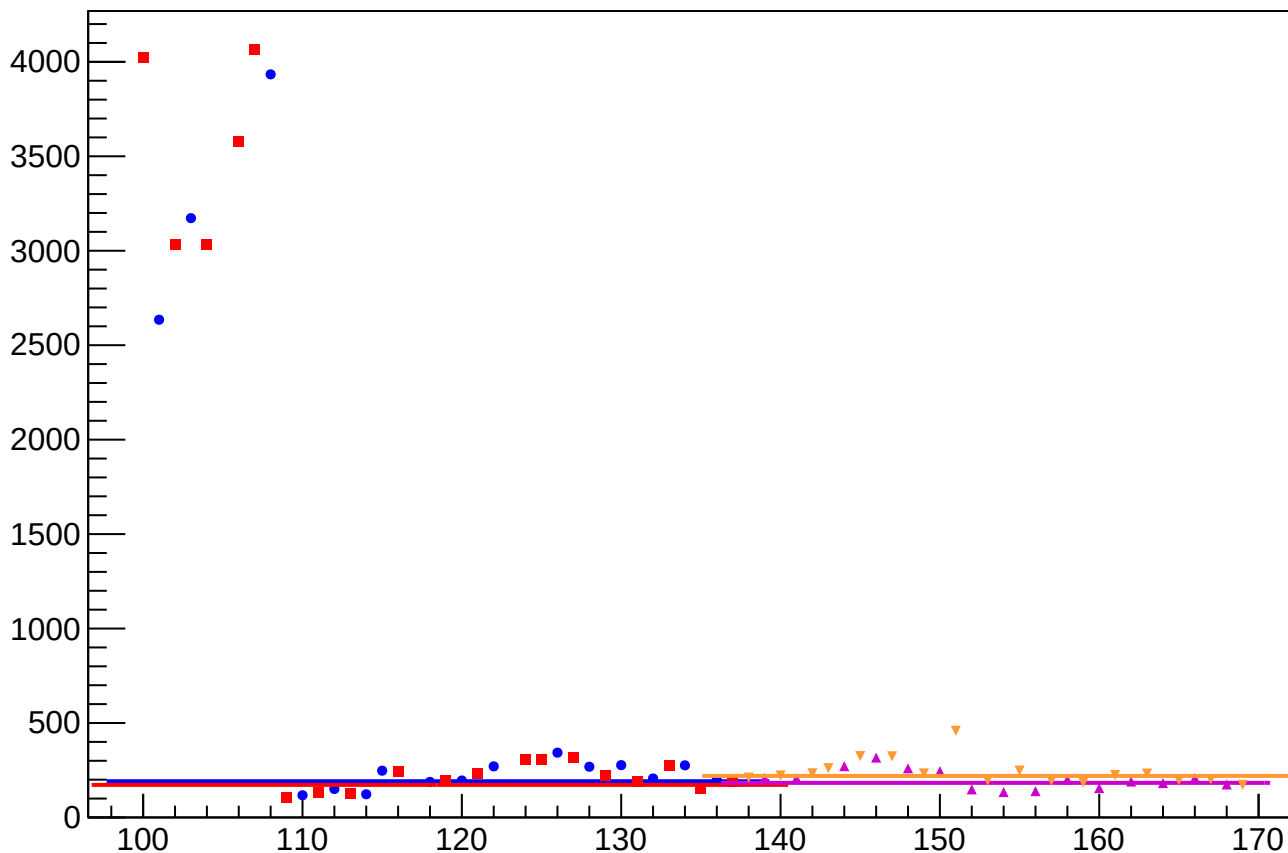
Right: -65.918 ± 57.416 $\chi^2/\text{NDF}: 33.0/34$

In: 86.574 ± 46.087 $\chi^2/\text{NDF}: 25.7/30$

Out: 32.497 ± 48.656 $\chi^2/\text{NDF}: 26.5/35$

All: 61.001 ± 33.460 $\chi^2/\text{NDF}: 52.9/66$

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.736+/-0.060 χ^2/NDF : 3821804.2/15

Left Out: 219.935+/-0.044 χ^2/NDF :1110400.9/16

Right Out: 172.462+/-0.055 χ^2/NDF : 4303129.4/18

Left In: 183.174+/-0.039 χ^2/NDF :1320244.9/14

Left: 199.281+/-0.029 χ^2/NDF : 2823119.7/31

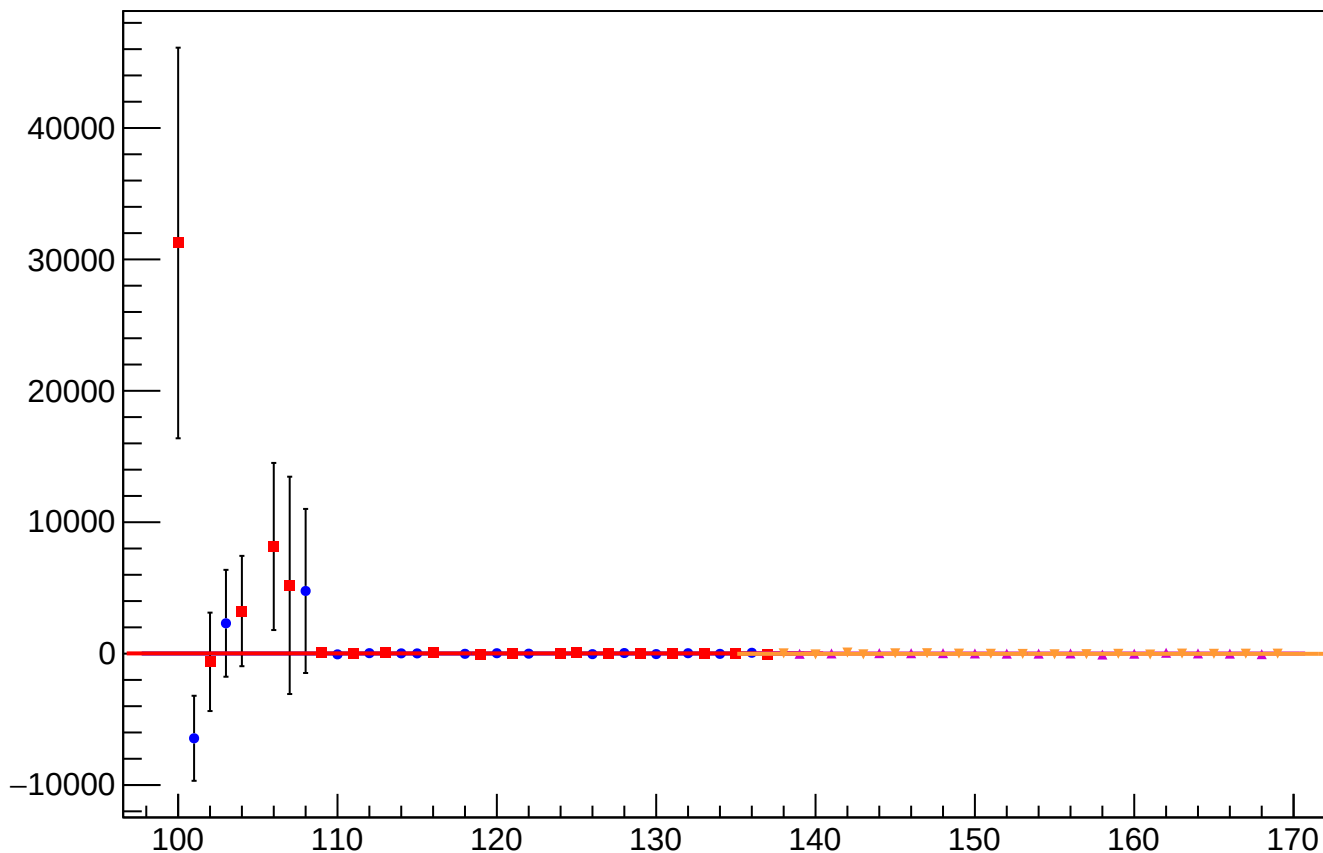
Right: 181.319+/-0.041 χ^2/NDF : 8180903.6/34

In: 185.709+/-0.033 χ^2/NDF :5156434.6/30

Out: 201.509+/-0.034 χ^2/NDF :5865684.9/35

All: 193.181+/-0.024 χ^2/NDF : 11133287.8/66

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 9.576+/-11.685 χ^2/NDF : 16.0/15

Left Out: -14.261+/-7.875 χ^2/NDF : 17.8/16

Right Out: 18.105+/-11.805 χ^2/NDF : 24.8/18

Left In: 8.100+/-8.203 χ^2/NDF : 16.4/14

Left: -3.536+/-5.681 χ^2/NDF : 38.0/31

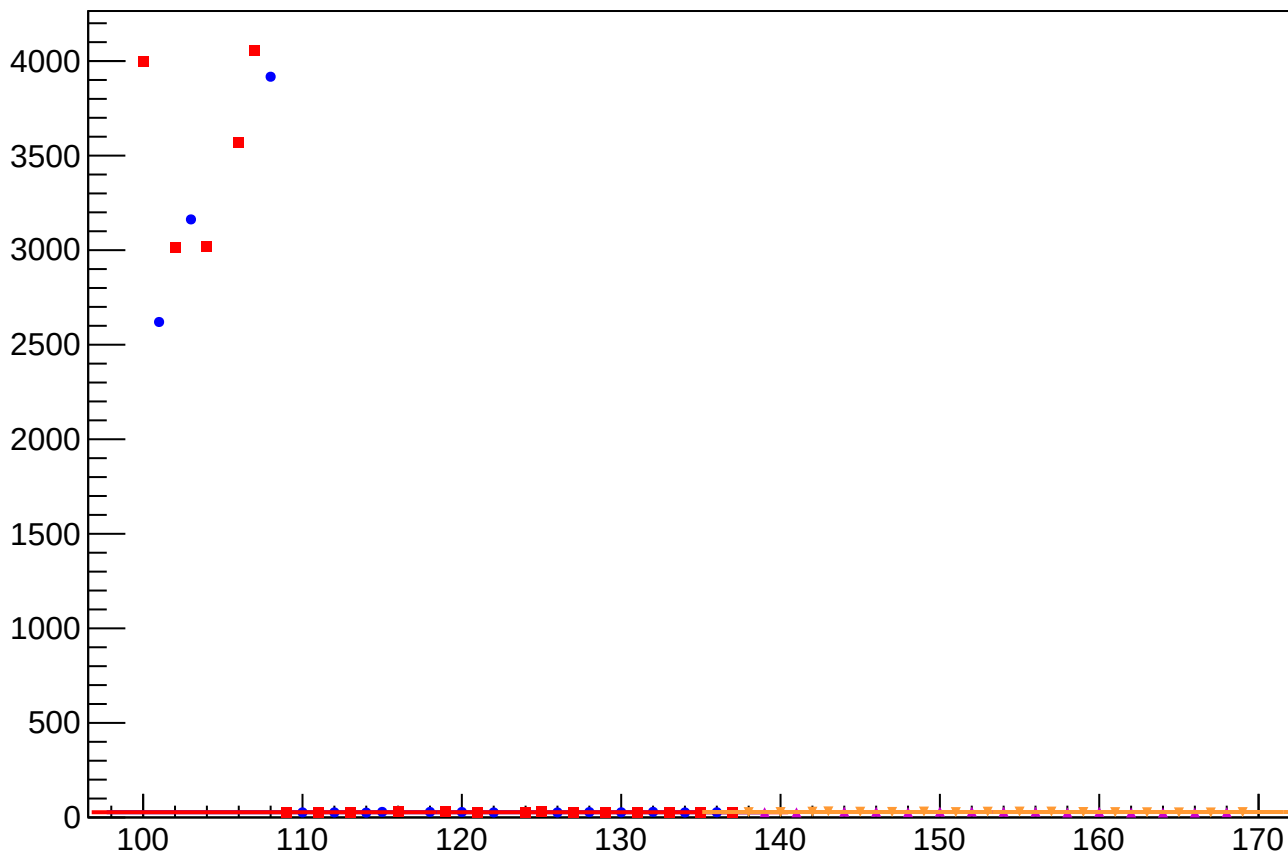
Right: 13.797+/-8.305 χ^2/NDF : 41.0/34

In: 8.587+/-6.714 χ^2/NDF : 32.4/30

Out: -4.294+/-6.551 χ^2/NDF : 47.8/35

All: 1.989+/-4.689 χ^2/NDF : 82.0/66

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.642 $\pm$ 0.008 χ^2 /NDF: 3265498.5/15

Left Out: 28.778 $\pm$ 0.006 χ^2 /NDF: 80927.6/16

Right Out: 27.535 $\pm$ 0.008 χ^2 /NDF: 3555229.4/18

Left In: 28.777 $\pm$ 0.006 χ^2 /NDF: 108698.9/14

Left: 28.777 $\pm$ 0.004 χ^2 /NDF: 189626.4/31

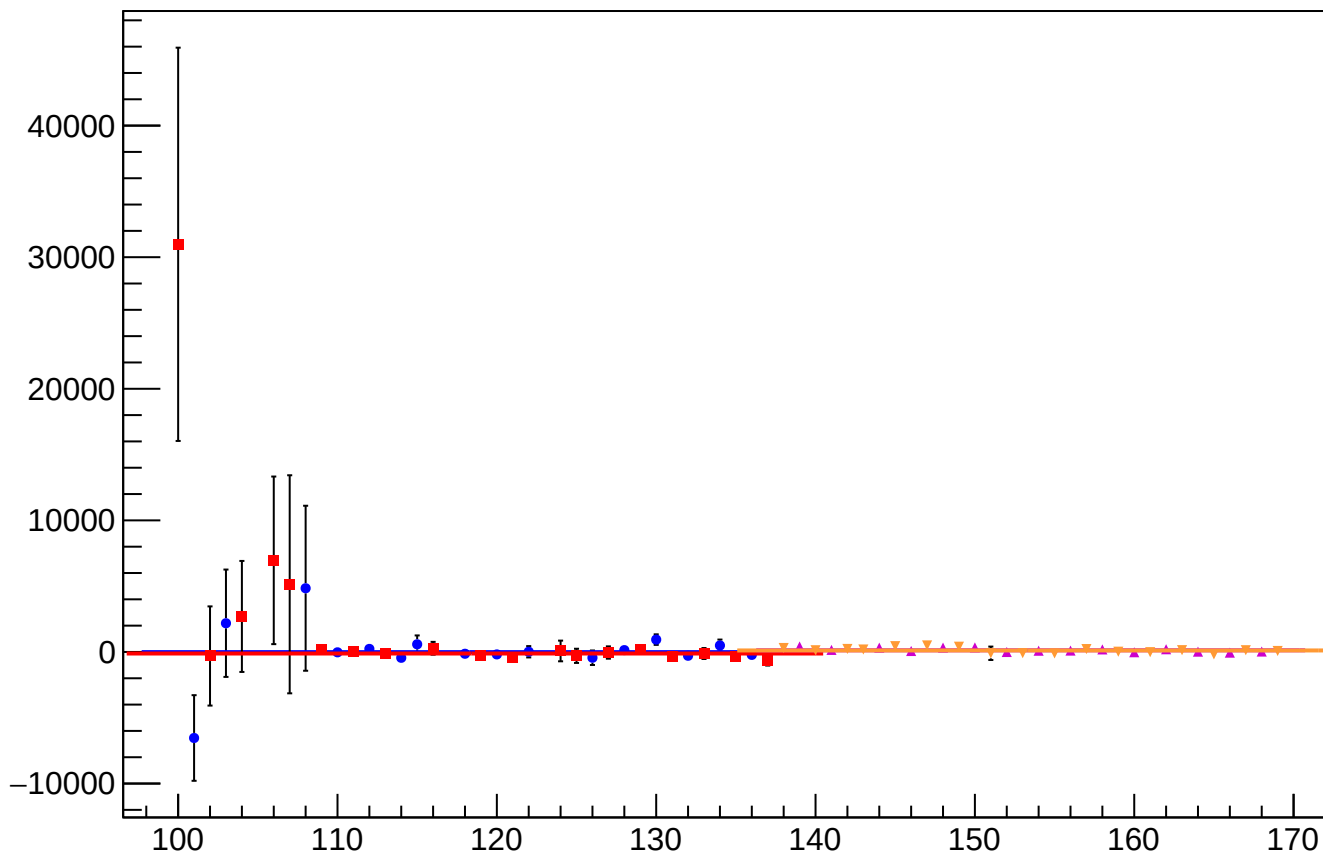
Right: 27.589 $\pm$ 0.006 χ^2 /NDF: 6820810.9/34

In: 28.402 $\pm$ 0.005 χ^2 /NDF: 3386841.6/30

Out: 28.395 $\pm$ 0.005 χ^2 /NDF: 3651509.1/35

All: 28.398 $\pm$ 0.003 χ^2 /NDF: 7038351.8/66

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -13.160 ± 84.454 $\chi^2/\text{NDF}: 18.3/15$

Left Out: 114.622 ± 62.072 $\chi^2/\text{NDF}: 7.8/16$

Right Out: -118.063 ± 77.862 $\chi^2/\text{NDF}: 14.4/18$

Left In: 126.744 ± 54.828 $\chi^2/\text{NDF}: 5.6/14$

Left: 121.432 ± 41.093 $\chi^2/\text{NDF}: 13.5/31$

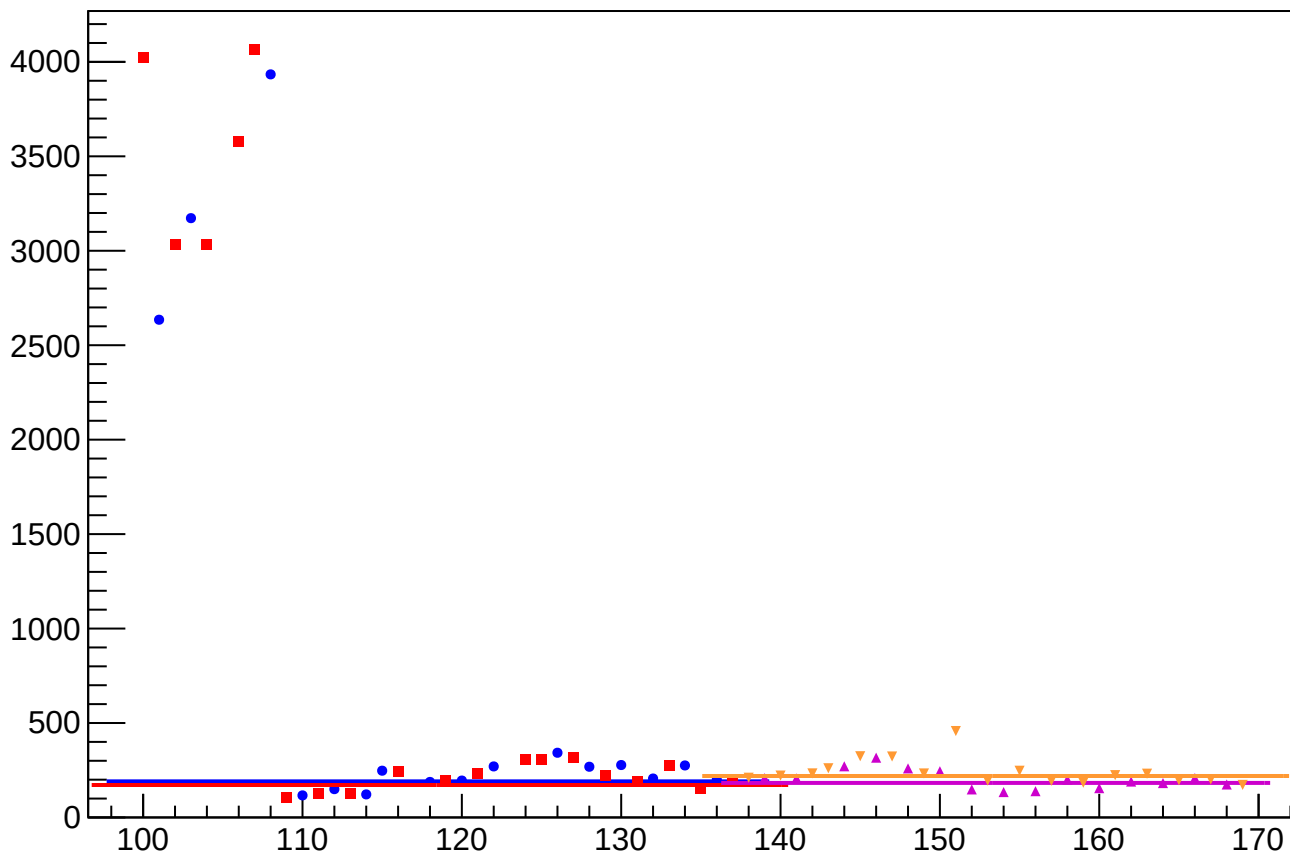
Right: -69.865 ± 57.246 $\chi^2/\text{NDF}: 33.6/34$

In: 85.262 ± 45.987 $\chi^2/\text{NDF}: 25.8/30$

Out: 24.206 ± 48.536 $\chi^2/\text{NDF}: 27.8/35$

All: 56.380 ± 33.383 $\chi^2/\text{NDF}: 54.4/66$

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 191.070+/-0.060 χ^2/NDF : 3833952.4/15

Left Out: 219.476+/-0.044 χ^2/NDF :1109932.8/16

Right Out: 171.835+/-0.055 χ^2/NDF : 4314721.8/18

Left In: 182.836+/-0.039 χ^2/NDF :1319788.5/14

Left: 198.894+/-0.029 χ^2/NDF : 2821172.4/31

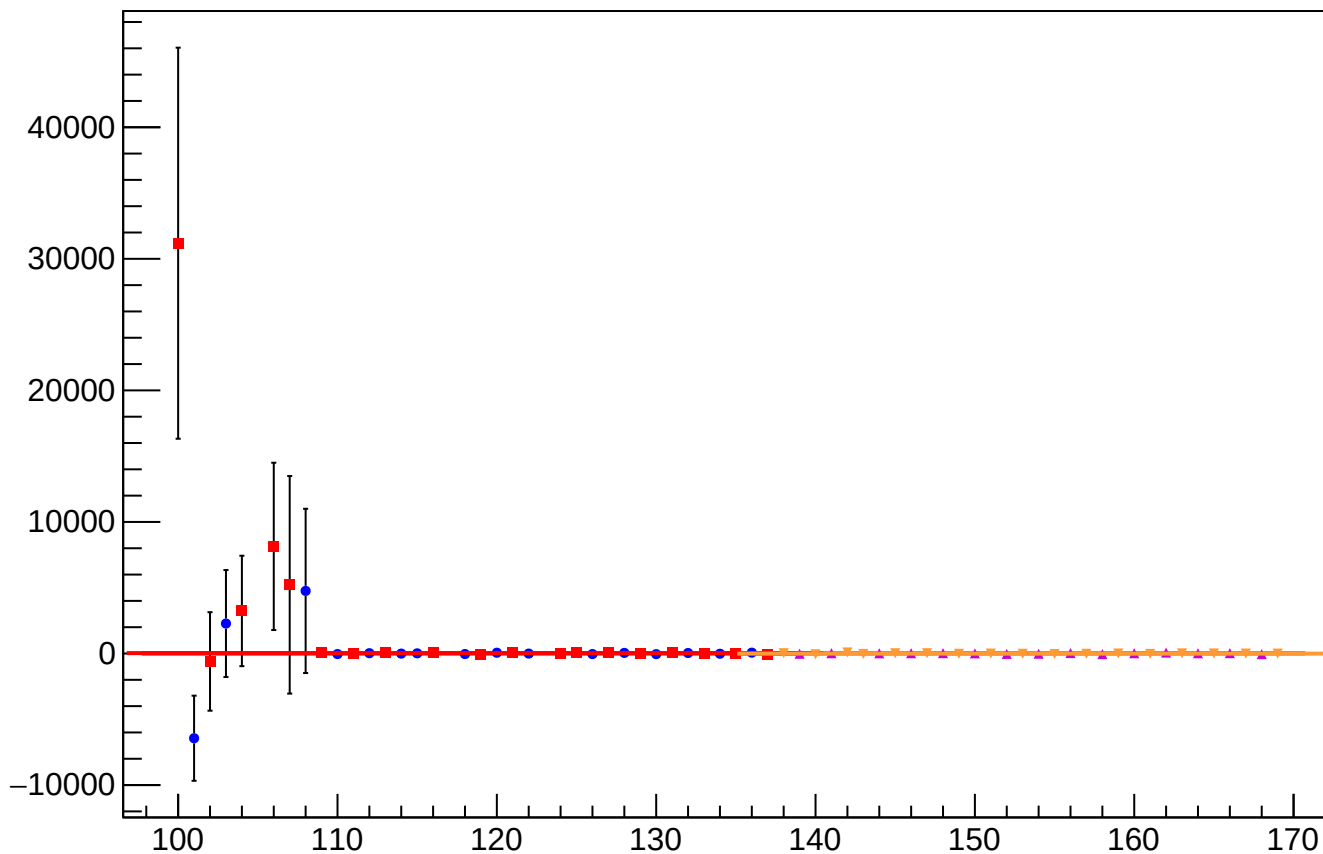
Right: 180.673+/-0.040 χ^2/NDF : 8204752.1/34

In: 185.277+/-0.033 χ^2/NDF :5167114.7/30

Out: 200.964+/-0.034 χ^2/NDF :5882456.8/35

All: 192.698+/-0.024 χ^2/NDF : 11159653.6/66

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.490 $\pm$ 11.764 χ^2 /NDF: 18.3/15

Left Out: -8.626 $\pm$ 7.931 χ^2 /NDF:11.2/16

Right Out: 30.962 $\pm$ 11.902 χ^2 /NDF: 19.9/18

Left In: 8.946 $\pm$ 8.254 χ^2 /NDF:16.0/14

Left: -0.191 $\pm$ 5.719 χ^2 /NDF: 29.6/31

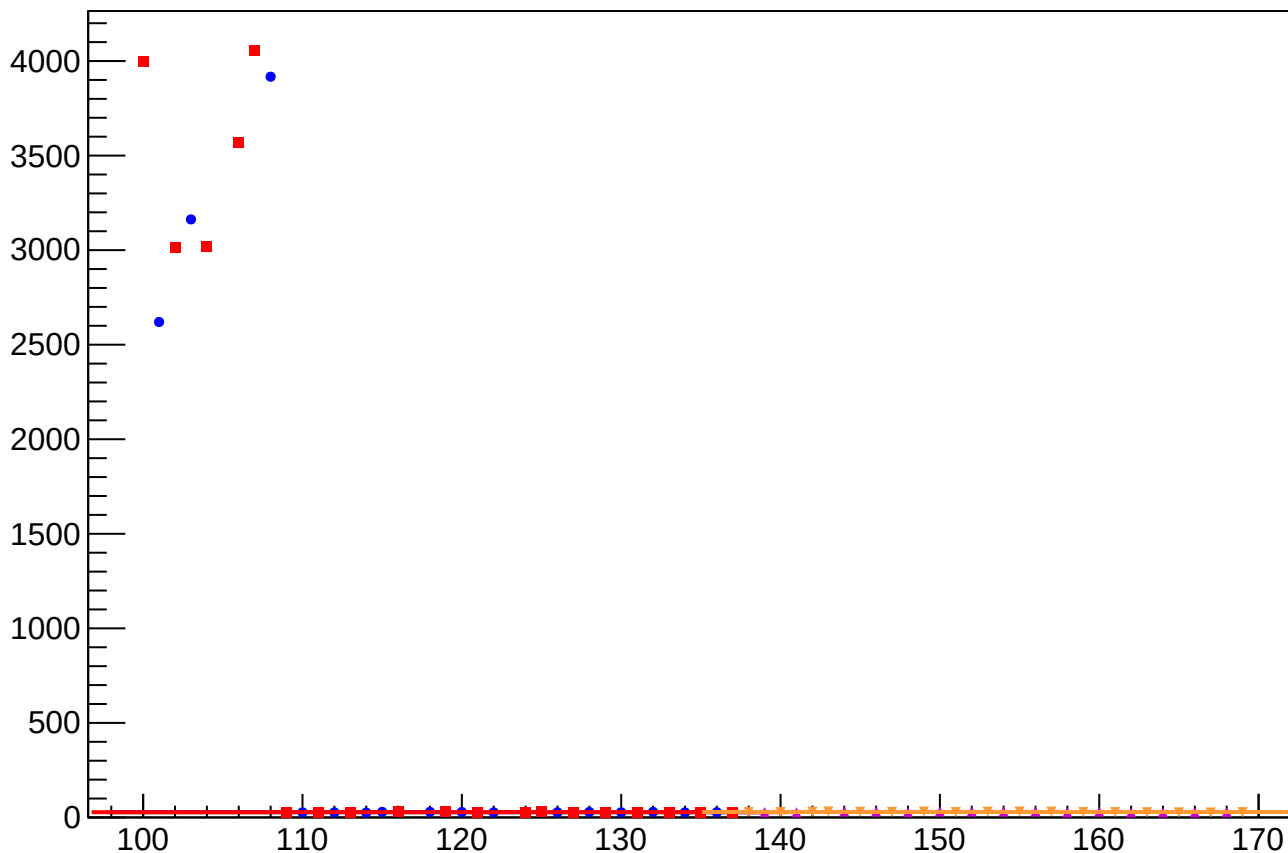
Right: 18.584 $\pm$ 8.367 χ^2 /NDF: 40.3/34

In: 8.135 $\pm$ 6.757 χ^2 /NDF:34.3/30

Out: 3.548 $\pm$ 6.600 χ^2 /NDF:38.8/35

All: 5.788 $\pm$ 4.721 χ^2 /NDF: 73.3/66

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.825+/-0.008 χ^2/NDF : 3265895.3/15

Left Out: 28.979+/-0.006 χ^2/NDF : 86613.8/16

Right Out: 27.754+/-0.008 χ^2/NDF : 3558676.9/18

Left In: 28.959+/-0.006 χ^2/NDF : 109573.3/14

Left: 28.970+/-0.004 χ^2/NDF : 196193.1/31

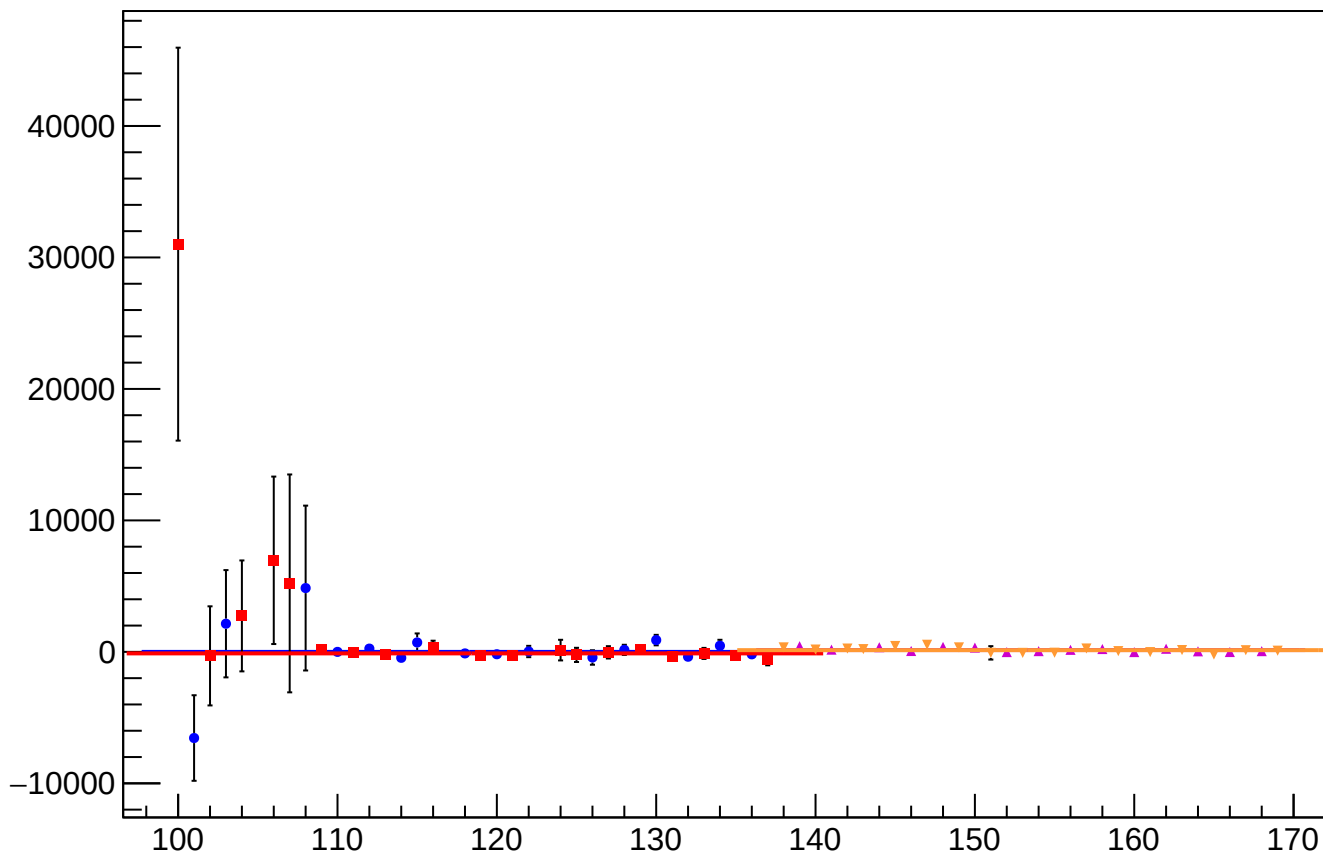
Right: 27.790+/-0.006 χ^2/NDF : 6824608.5/34

In: 28.585+/-0.005 χ^2/NDF : 3387930.1/30

Out: 28.602+/-0.005 χ^2/NDF : 3659974.9/35

All: 28.594+/-0.003 χ^2/NDF : 7047911.5/66

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -2.795 ± 85.508 $\chi^2/\text{NDF}: 18.2/15$

Left Out: 130.522 ± 62.688 $\chi^2/\text{NDF}: 7.8/16$

Right Out: -115.753 ± 78.952 $\chi^2/\text{NDF}: 13.8/18$

Left In: 138.477 ± 55.504 $\chi^2/\text{NDF}: 6.0/14$

Left: 134.981 ± 41.556 $\chi^2/\text{NDF}: 13.7/31$

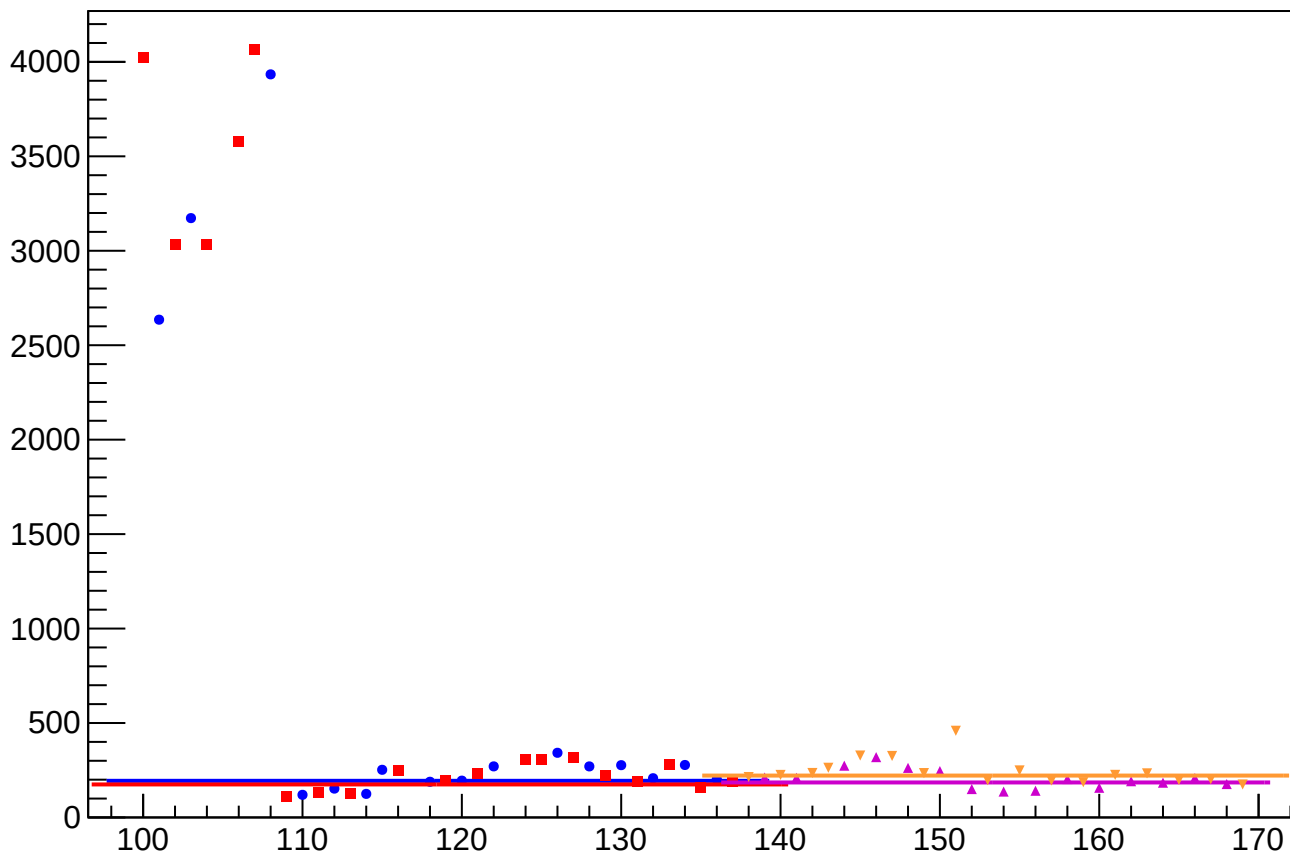
Right: -63.770 ± 58.007 $\chi^2/\text{NDF}: 33.0/34$

In: 96.598 ± 46.556 $\chi^2/\text{NDF}: 26.1/30$

Out: 35.296 ± 49.094 $\chi^2/\text{NDF}: 27.5/35$

All: 67.573 ± 33.782 $\chi^2/\text{NDF}: 54.5/66$

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 193.946+/-0.060 χ^2/NDF : 3784467.5/15

Left Out: 221.755+/-0.044 χ^2/NDF : 1098966.2/16

Right Out: 174.779+/-0.056 χ^2/NDF : 4259323.6/18

Left In: 185.269+/-0.039 χ^2/NDF : 1292290.4/14

Left: 201.302+/-0.029 χ^2/NDF : 2771052.4/31

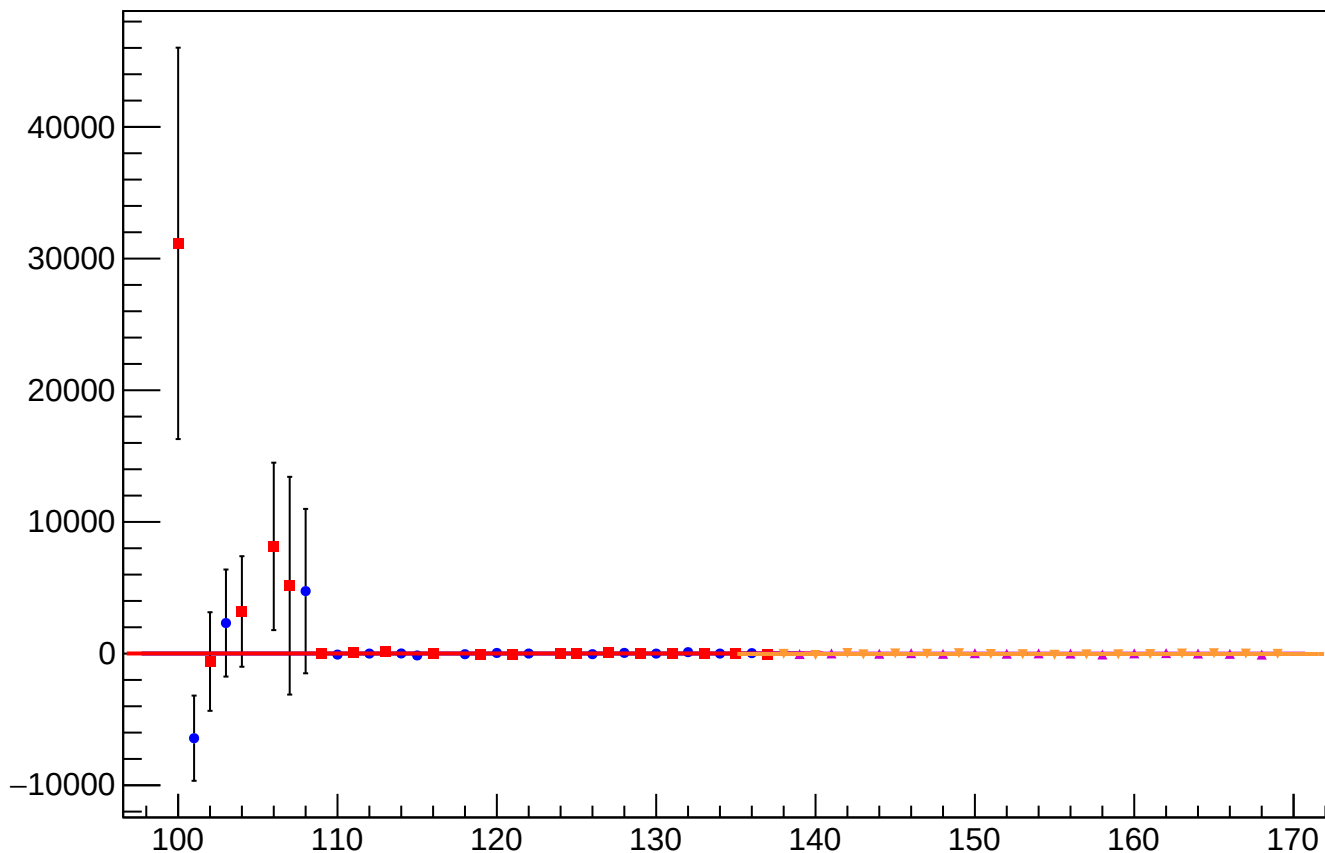
Right: 183.600+/-0.041 χ^2/NDF : 8098034.9/34

In: 187.841+/-0.033 χ^2/NDF : 5091249.7/30

Out: 203.591+/-0.035 χ^2/NDF : 5792546.5/35

All: 195.299+/-0.024 χ^2/NDF : 10992178.8/66

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.660 $\pm$ 14.306 χ^2 /NDF: 17.5/15

Left Out: -29.116 $\pm$ 9.418 χ^2 /NDF:17.0/16

Right Out: 10.003 $\pm$ 14.433 χ^2 /NDF: 23.4/18

Left In: -3.046 $\pm$ 9.811 χ^2 /NDF:11.7/14

Left: -16.614 $\pm$ 6.794 χ^2 /NDF: 32.4/31

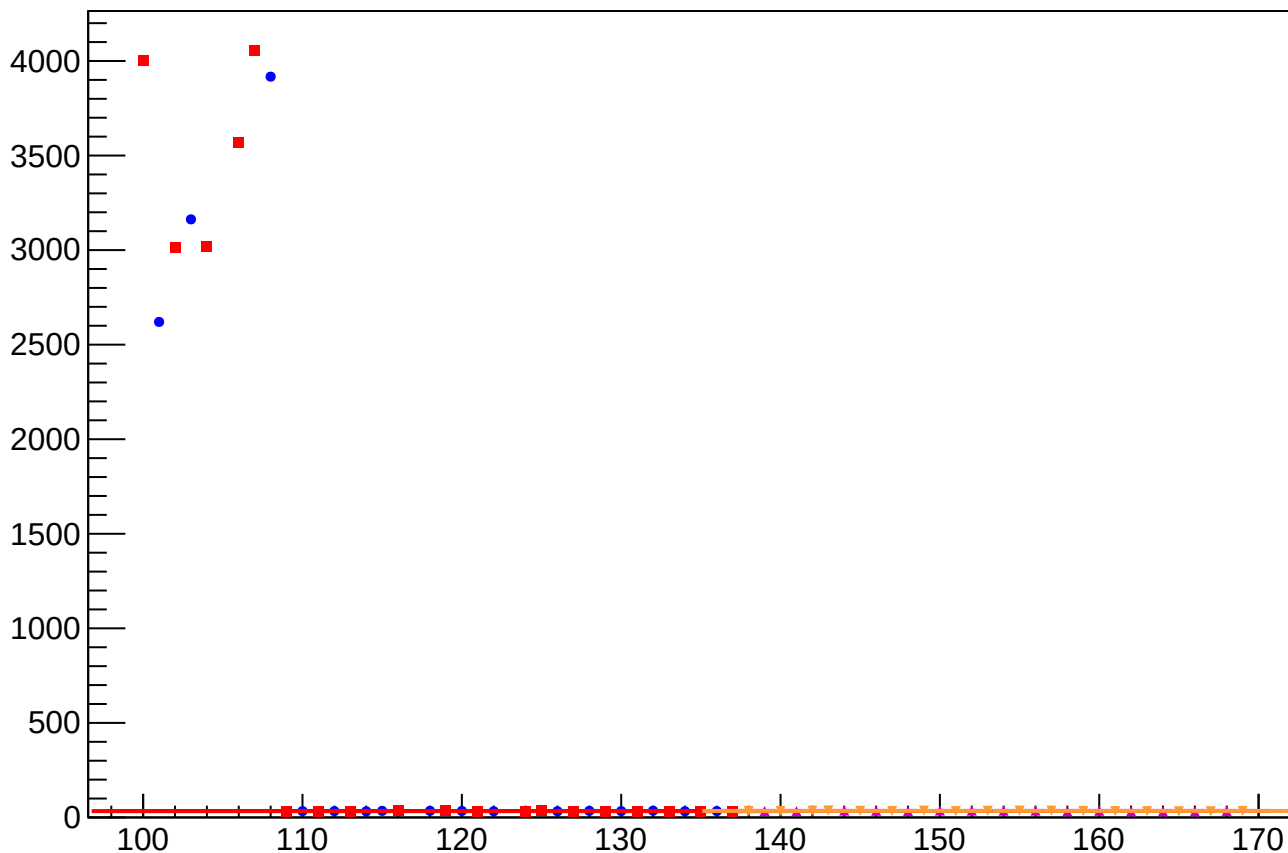
Right: 7.813 $\pm$ 10.160 χ^2 /NDF: 40.9/34

In: -0.261 $\pm$ 8.091 χ^2 /NDF:29.4/30

Out: -17.433 $\pm$ 7.887 χ^2 /NDF:45.6/35

All: -9.066 $\pm$ 5.648 χ^2 /NDF: 77.3/66

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.899+/-0.010 χ^2/NDF : 3244382.4/15

Left Out: 34.471+/-0.007 χ^2/NDF : 36832.4/16

Right Out: 33.726+/-0.010 χ^2/NDF : 3526463.8/18

Left In: 34.491+/-0.007 χ^2/NDF : 48889.8/14

Left: 34.480+/-0.005 χ^2/NDF : 85726.6/31

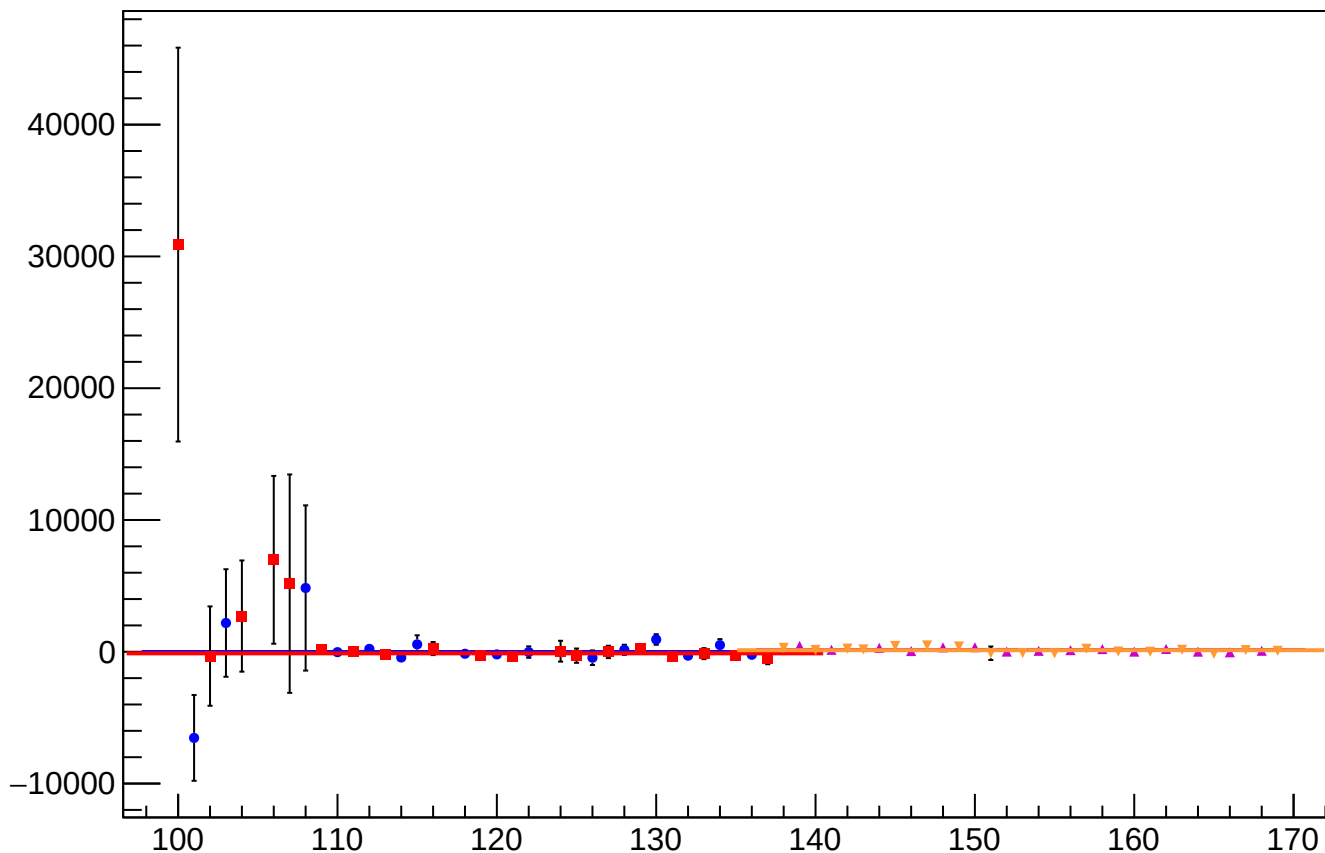
Right: 33.814+/-0.007 χ^2/NDF : 6770991.8/34

In: 34.302+/-0.006 χ^2/NDF : 3295595.5/30

Out: 34.248+/-0.006 χ^2/NDF : 3567028.9/35

All: 34.274+/-0.004 χ^2/NDF : 6862668.9/66

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -19.522 ± 85.063 χ^2/NDF : 18.2/15

Left Out: 117.874 ± 62.563 χ^2/NDF : 7.5/16

Right Out: -119.922 ± 78.455 χ^2/NDF : 13.3/18

Left In: 136.210 ± 55.349 χ^2/NDF : 5.3/14

Left: 128.160 ± 41.455 χ^2/NDF : 12.9/31

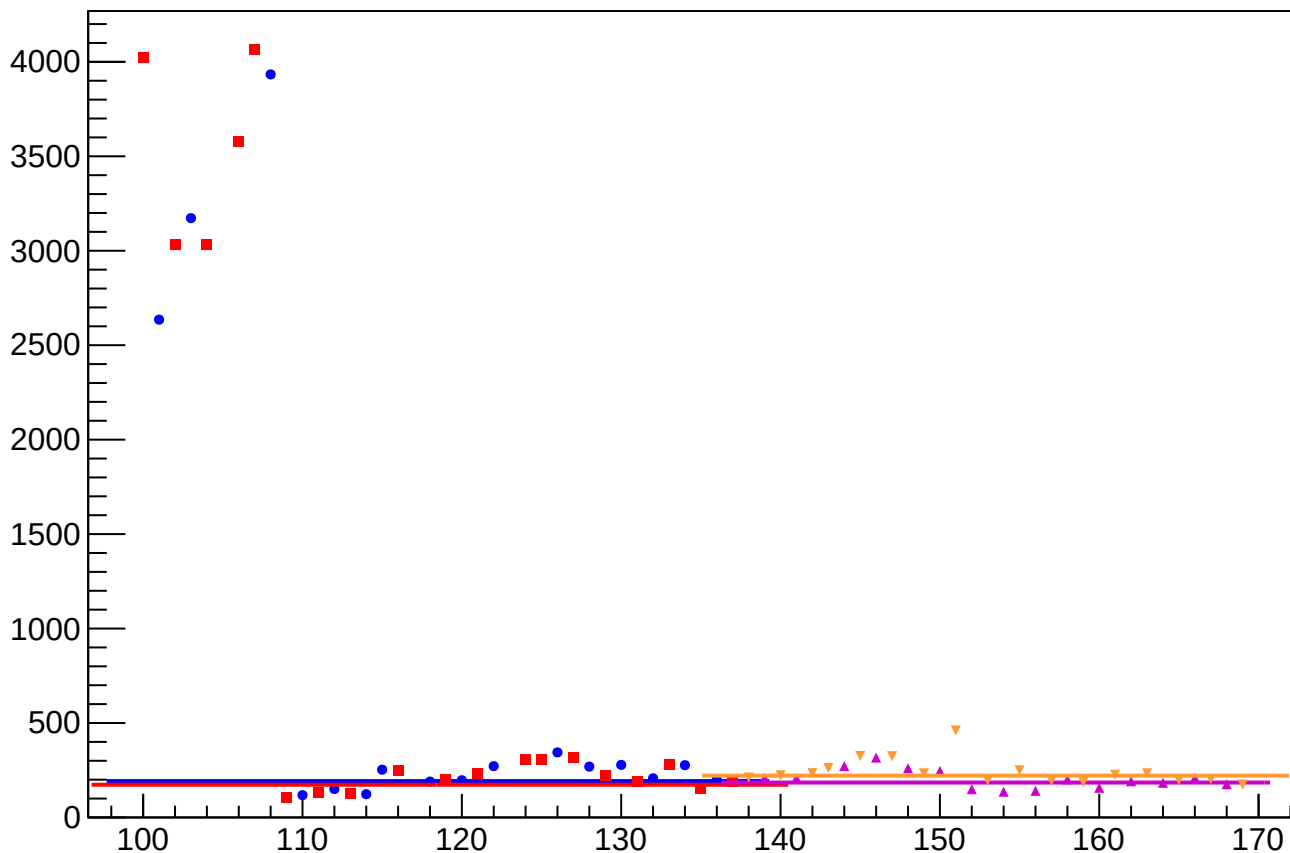
Right: -73.773 ± 57.671 χ^2/NDF : 32.2/34

In: 89.888 ± 46.392 χ^2/NDF : 25.9/30

Out: 25.438 ± 48.915 χ^2/NDF : 26.4/35

All: 59.367 ± 33.661 χ^2/NDF : 53.2/66

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 192.560+/-0.060 χ^2/NDF : 3822789.1/15

Left Out: 221.321+/-0.044 χ^2/NDF : 1092069.7/16

Right Out: 173.249+/-0.055 χ^2/NDF : 4307420.2/18

Left In: 184.757+/-0.039 χ^2/NDF : 1279997.5/14

Left: 200.811+/-0.029 χ^2/NDF : 2755273.6/31

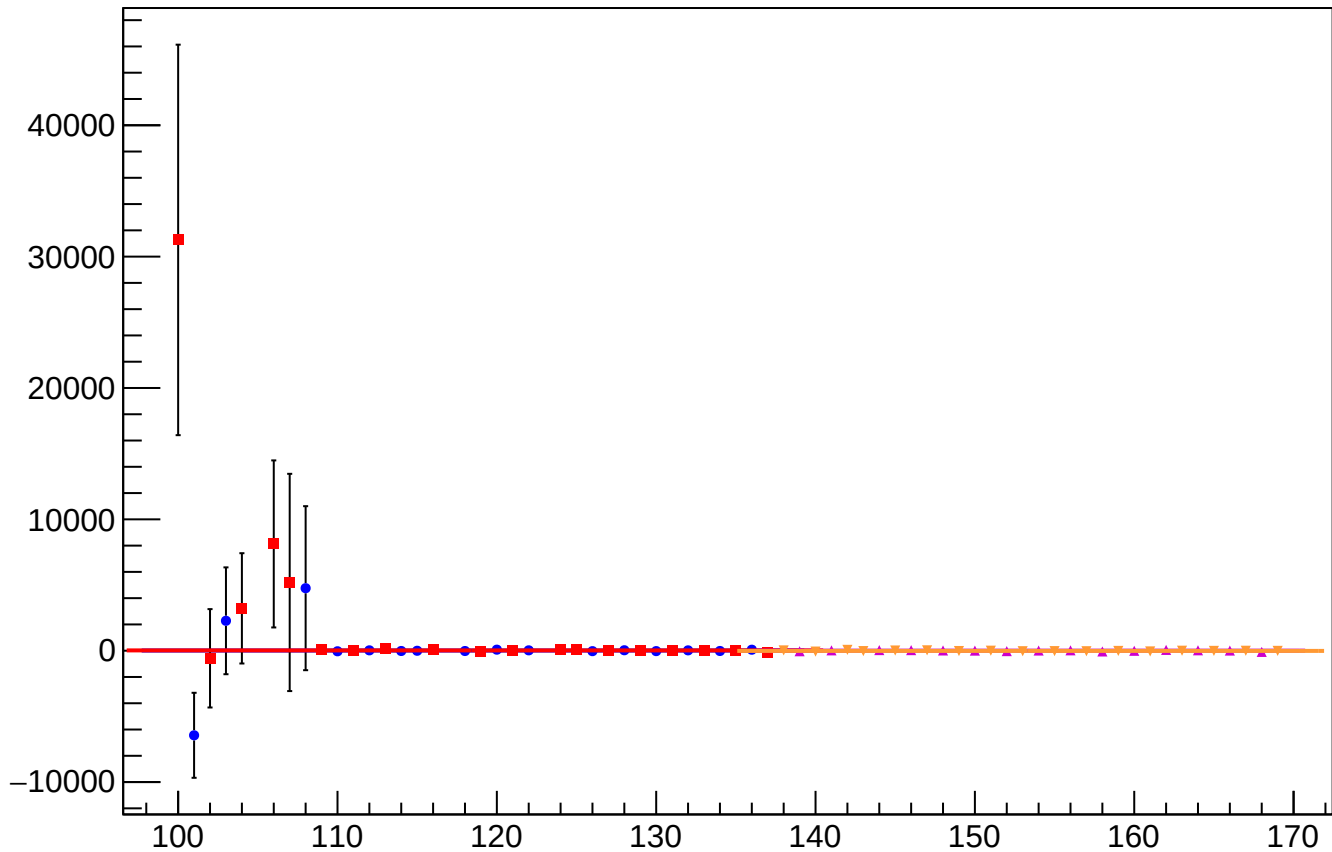
Right: 182.125+/-0.041 χ^2/NDF : 8185907.1/34

In: 187.078+/-0.033 χ^2/NDF : 5114609.5/30

Out: 202.635+/-0.035 χ^2/NDF : 5858501.3/35

All: 194.445+/-0.024 χ^2/NDF : 11079606.6/66

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 13.713+/-13.062 χ^2/NDF : 15.5/15

Left Out: -14.927+/-8.549 χ^2/NDF : 11.7/16

Right Out: 23.230+/-13.181 χ^2/NDF : 28.7/18

Left In: 3.476+/-8.891 χ^2/NDF : 22.5/14

Left: -6.086+/-6.162 χ^2/NDF : 36.4/31

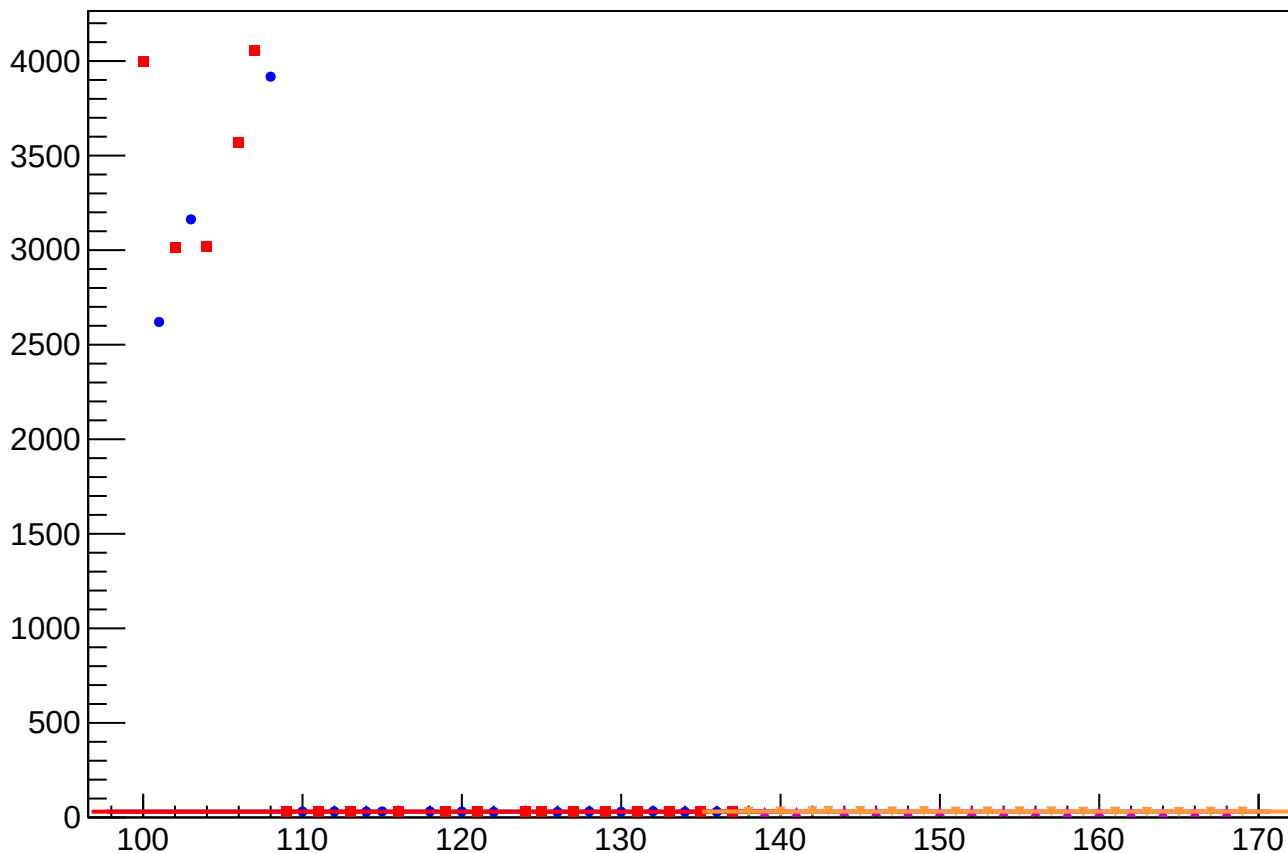
Right: 18.428+/-9.278 χ^2/NDF : 44.4/34

In: 6.717+/-7.350 χ^2/NDF : 38.4/30

Out: -3.629+/-7.172 χ^2/NDF : 46.3/35

All: 1.418+/-5.133 χ^2/NDF : 85.6/66

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.928+/-0.009 χ^2/NDF : 3252607.8/15

Left Out: 31.262+/-0.006 χ^2/NDF : 58390.0/16

Right Out: 30.777+/-0.009 χ^2/NDF : 3536234.6/18

Left In: 31.215+/-0.006 χ^2/NDF : 76829.4/14

Left: 31.239+/-0.004 χ^2/NDF : 135248.3/31

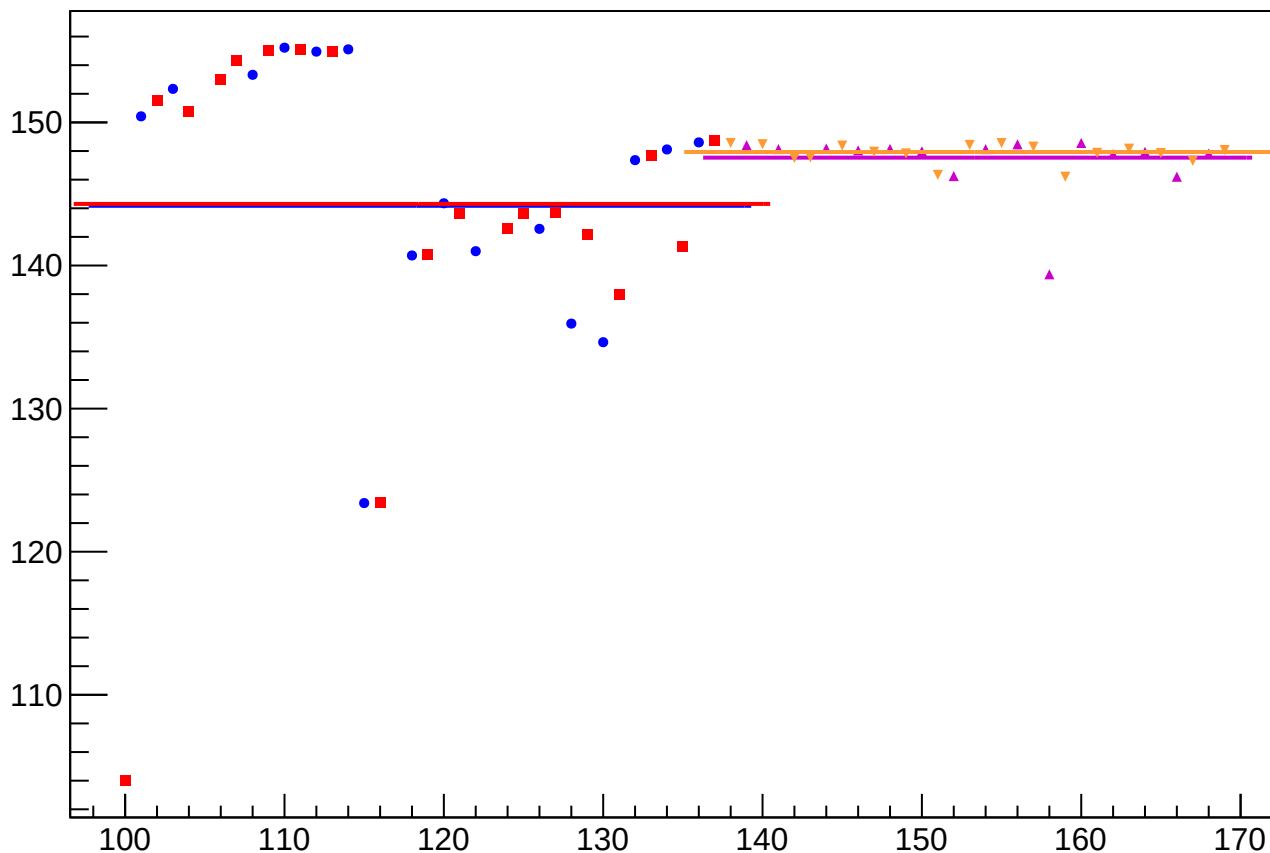
Right: 30.853+/-0.007 χ^2/NDF : 6788975.5/34

In: 31.124+/-0.005 χ^2/NDF : 3330094.9/30

Out: 31.118+/-0.005 χ^2/NDF : 3596529.1/35

All: 31.121+/-0.004 χ^2/NDF : 6926624.7/66

yield_bcm_target_mean vs Slug, Sign Corrected



Right In: 144.176+/-0.000

χ^2/NDF : 3724747268.7/15

Left Out: 147.933+/-0.000

χ^2/NDF : 33866453.0/16

Right Out: 144.304+/-0.000

χ^2/NDF : 4264494940.7/18

Left In: 147.538+/-0.000

χ^2/NDF : 288446843.1/14

Left: 147.746+/-0.000

χ^2/NDF : 328103339.6/31

Right: 144.240+/-0.000

χ^2/NDF : 7989709366.0/34

In: 146.032+/-0.000

χ^2/NDF : 4369333335.8/30

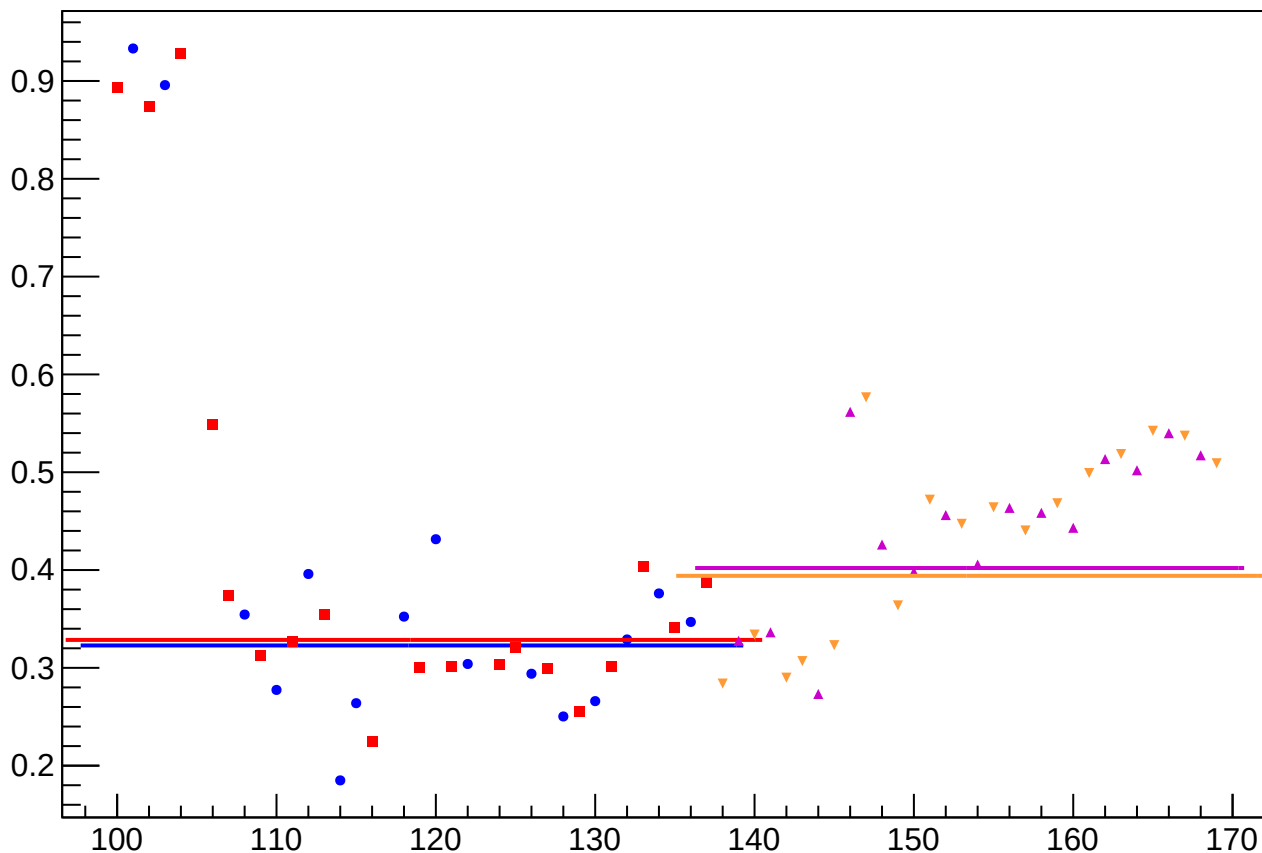
Out: 146.417+/-0.000

χ^2/NDF : 4731133849.9/35

All: 146.230+/-0.000

χ^2/NDF : 9110160337.6

yield_bcm_target_rms vs Slug, Sign Corrected



Right In: 0.323+/-0.000 χ^2/NDF : 1396024.1/15

Left Out: 0.394+/-0.000 χ^2/NDF :1360297.5/16

Right Out: 0.329+/-0.000 χ^2/NDF : 1304148.7/18

Left In: 0.402+/-0.000 χ^2/NDF :1043354.3/14

Left: 0.398+/-0.000 χ^2/NDF : 2408386.2/31

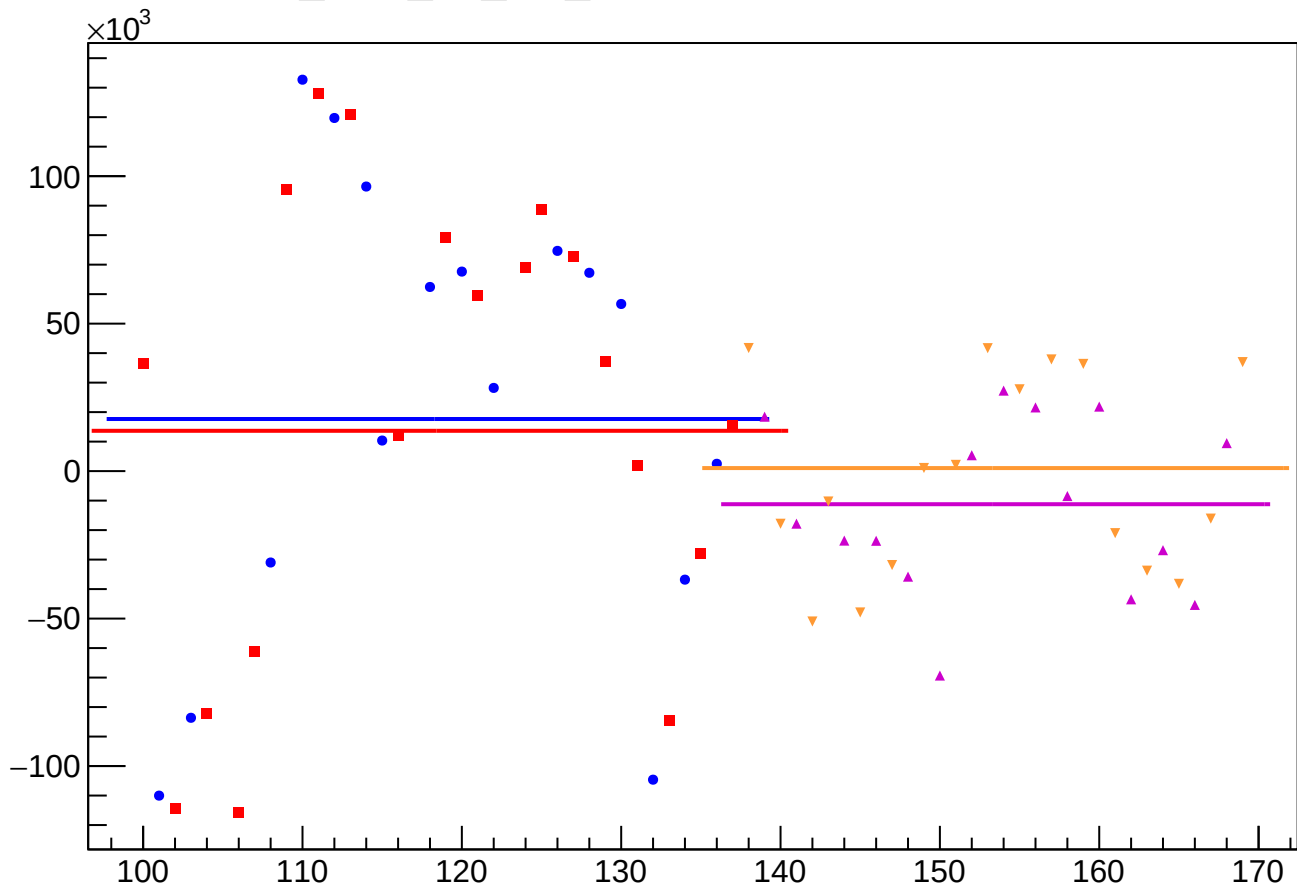
Right: 0.326+/-0.000 χ^2/NDF : 2702003.2/34

In: 0.367+/-0.000 χ^2/NDF :2834510.8/30

Out: 0.367+/-0.000 χ^2/NDF :2946679.7/35

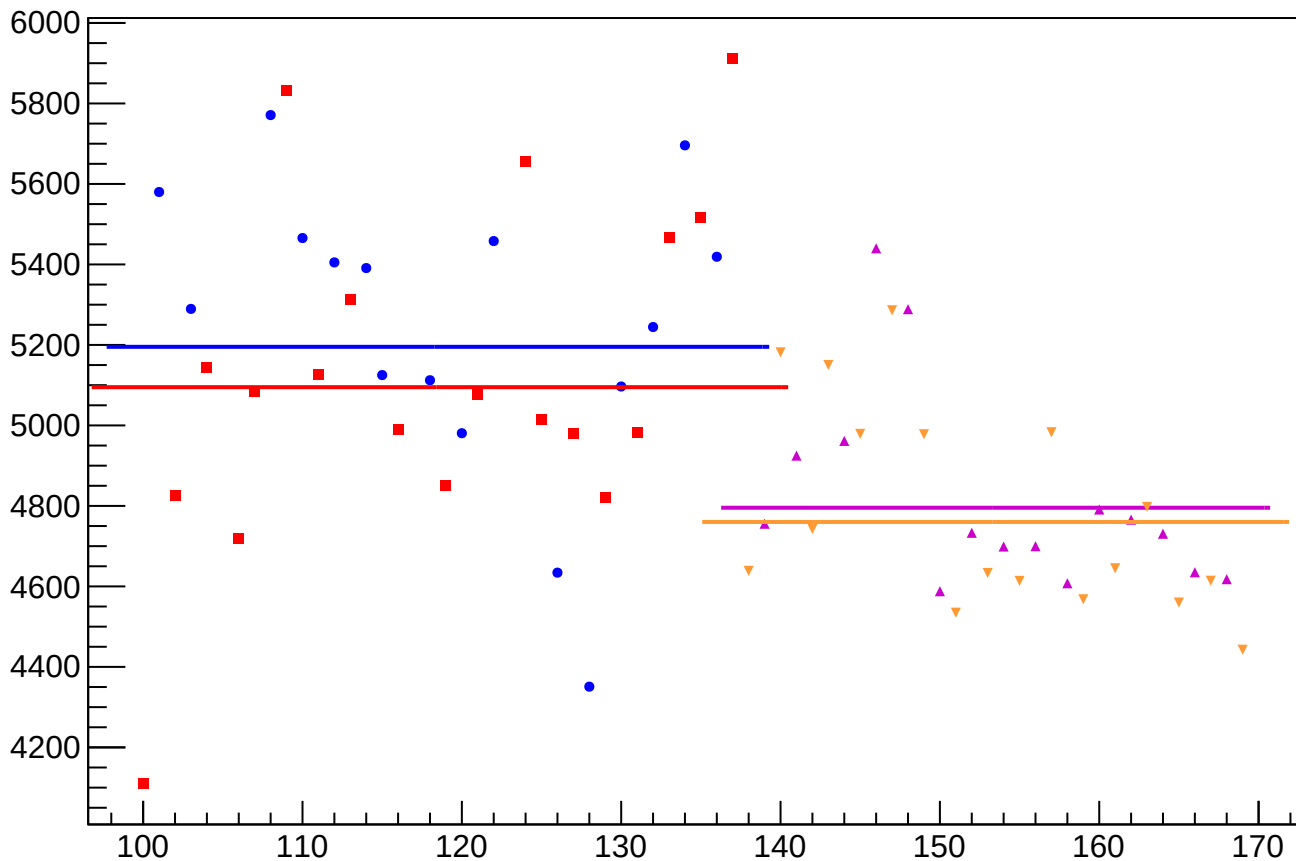
All: 0.367+/-0.000 χ^2/NDF : 5781192.0/66

yield_bcm_an_diff_mean vs Slug, Sign Corrected



Right In: 17663.790 ± 2.006 $\chi^2/\text{NDF}: 1398738701.8/15$ Left: -4801.389 ± 0.964 $\chi^2/\text{NDF}: 1046729602.5/31$
 Left Out: 1028.164 ± 1.331 $\chi^2/\text{NDF}: 573876187.2/16$ Right: 15583.102 ± 1.389 $\chi^2/\text{NDF}: 3257769505.5/3$
 Right Out: 13666.312 ± 1.925 $\chi^2/\text{NDF}: 1856962869.6/18$ In: -1786.644 ± 1.146 $\chi^2/\text{NDF}: 1970967142.7/30$
 Out: 5115.904 ± 1.095 $\chi^2/\text{NDF}: 2460003012.2/35$
 Left In: -11223.098 ± 1.397 $\chi^2/\text{NDF}: 432535726.6/14$ All: 1823.219 ± 0.792 $\chi^2/\text{NDF}: 4449934414.$

yield_bcm_an_diff_rms vs Slug, Sign Corrected



Right In: 5195.298 $\pm$ 1.418 χ^2 /NDF: 77166.0/15

Left Out: 4760.152 $\pm$ 0.941 χ^2 /NDF:66818.1/16

Right Out: 5095.047 $\pm$ 1.361 χ^2 /NDF: 59112.0/18

Left In: 4795.481 $\pm$ 0.988 χ^2 /NDF:51219.6/14

Left: 4776.963 $\pm$ 0.681 χ^2 /NDF: 118708.3/31

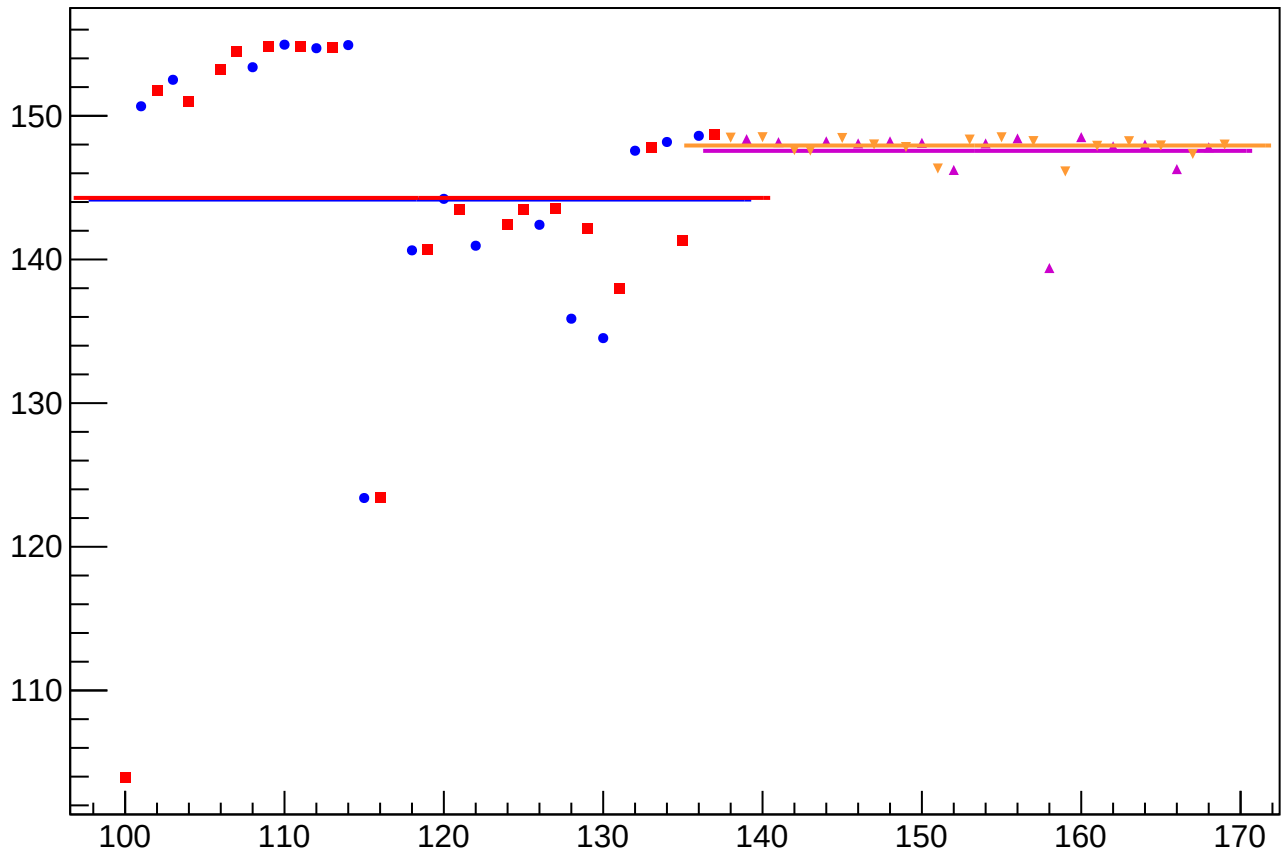
Right: 5143.118 $\pm$ 0.982 χ^2 /NDF: 138879.2/34

In: 4926.089 $\pm$ 0.811 χ^2 /NDF:181906.7/30

Out: 4868.472 $\pm$ 0.774 χ^2 /NDF:166887.2/35

All: 4895.957 $\pm$ 0.560 χ^2 /NDF: 351436.6/66

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.172 $\pm$ 0.000 χ^2 /NDF: 3764836520.0/15

Left Out: 147.934 $\pm$ 0.000 χ^2 /NDF:33798006.0/16

Right Out: 144.286 $\pm$ 0.000 χ^2 /NDF: 4290223847.7/18

Left In: 147.562 $\pm$ 0.000 χ^2 /NDF:289244065.1/14

Left: 147.759 $\pm$ 0.000 χ^2 /NDF: 328238247.1/31

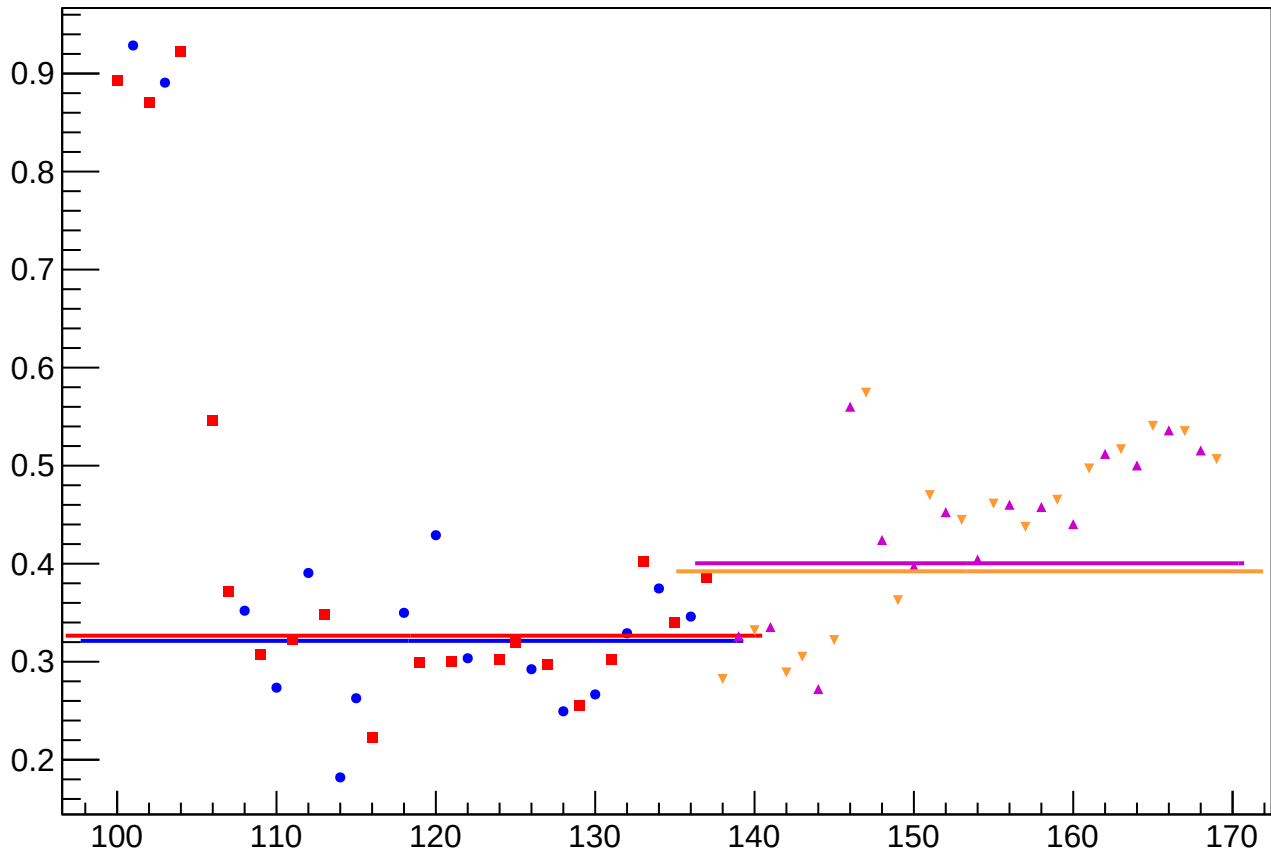
Right: 144.229 $\pm$ 0.000 χ^2 /NDF: 8055437753.5/34

In: 146.042 $\pm$ 0.000 χ^2 /NDF:4419575775.2/30

Out: 146.408 $\pm$ 0.000 χ^2 /NDF:4766250605.7/35

All: 146.231 $\pm$ 0.000 χ^2 /NDF: 9194699068.1

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.321+/-0.000 χ^2/NDF : 1396250.7/15

Left Out: 0.392+/-0.000 χ^2/NDF :1361094.0/16

Right Out: 0.327+/-0.000 χ^2/NDF : 1302732.4/18

Left In: 0.400+/-0.000 χ^2/NDF :1041325.3/14

Left: 0.396+/-0.000 χ^2/NDF : 2407493.5/31

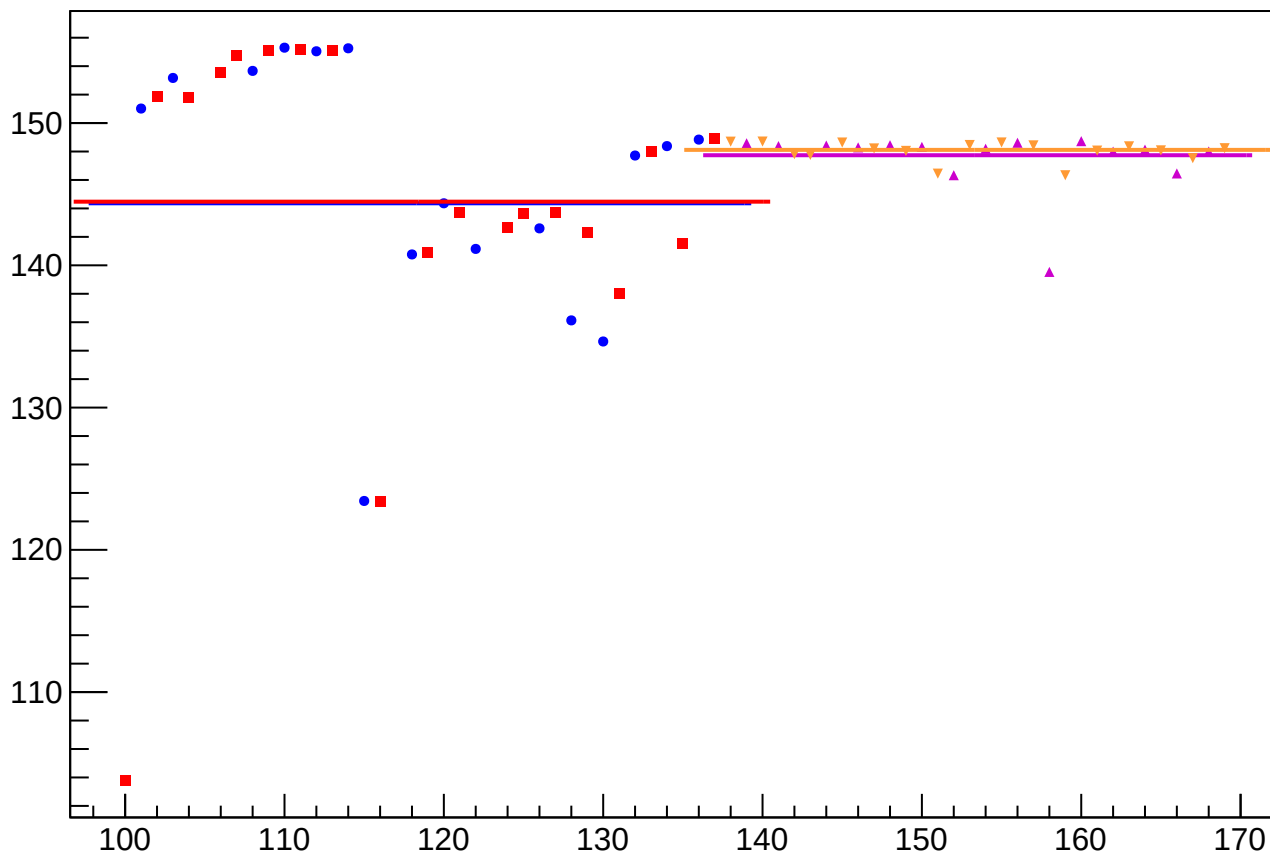
Right: 0.324+/-0.000 χ^2/NDF : 2700575.6/34

In: 0.365+/-0.000 χ^2/NDF :2835814.1/30

Out: 0.365+/-0.000 χ^2/NDF :2950141.9/35

All: 0.365+/-0.000 χ^2/NDF : 5785962.0/66

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.361+/-0.000 χ^2/NDF : 3758625293.6/15

Left Out: 148.115+/-0.000 χ^2/NDF : 33776748.8/16

Right Out: 144.475+/-0.000 χ^2/NDF : 4281975463.8/18

Left In: 147.739+/-0.000 χ^2/NDF : 293501596.2/14

Left: 147.938+/-0.000 χ^2/NDF : 332527587.3/31

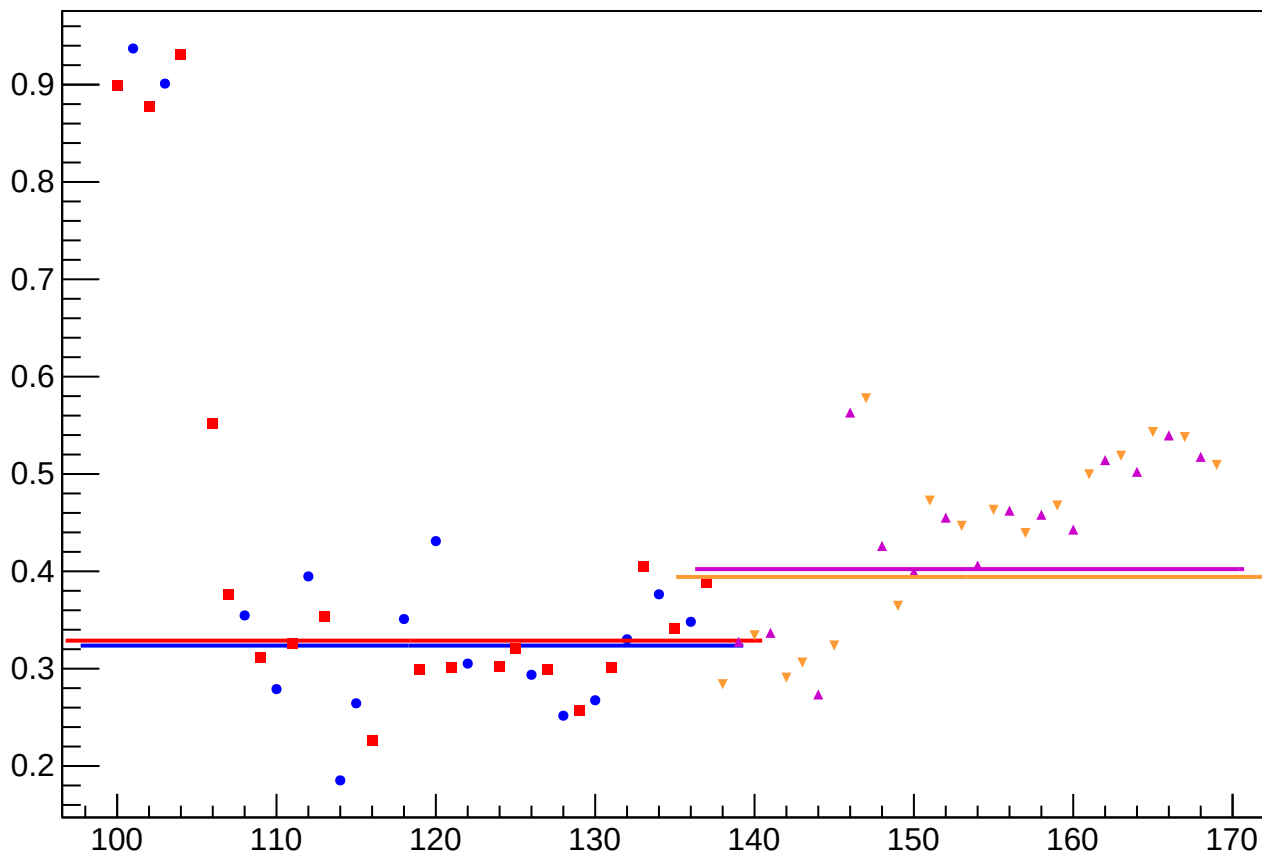
Right: 144.417+/-0.000 χ^2/NDF : 8040967165.8/34

In: 146.229+/-0.000 χ^2/NDF : 4410650497.0/30

Out: 146.595+/-0.000 χ^2/NDF : 4750836664.2/35

All: 146.417+/-0.000 χ^2/NDF : 9170259469.5

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.324+/-0.000 χ^2/NDF : 1392377.9/15

Left Out: 0.394+/-0.000 χ^2/NDF :1358880.3/16

Right Out: 0.329+/-0.000 χ^2/NDF : 1303222.2/18

Left In: 0.402+/-0.000 χ^2/NDF :1040519.5/14

Left: 0.398+/-0.000 χ^2/NDF : 2404208.5/31

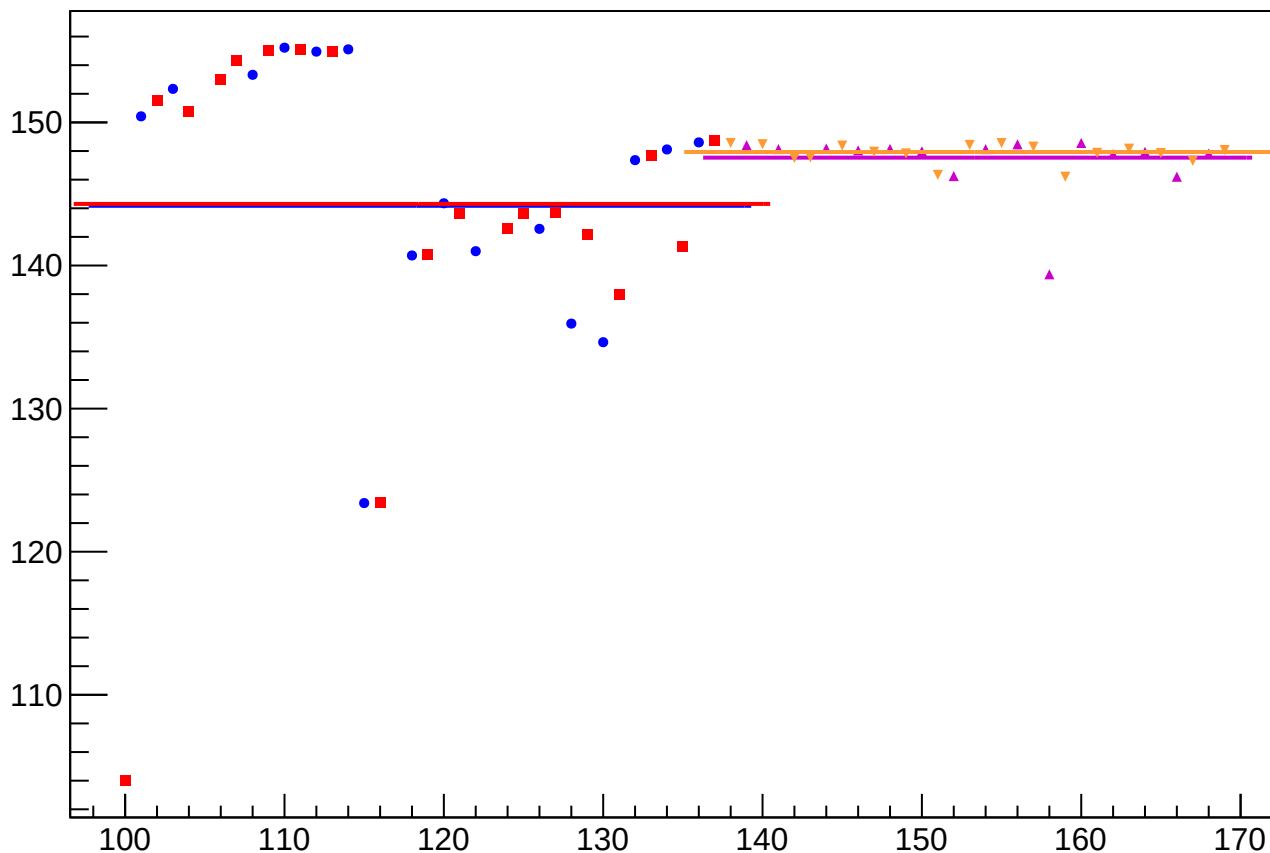
Right: 0.326+/-0.000 χ^2/NDF : 2697075.5/34

In: 0.367+/-0.000 χ^2/NDF :2820745.3/30

Out: 0.367+/-0.000 χ^2/NDF :2943027.7/35

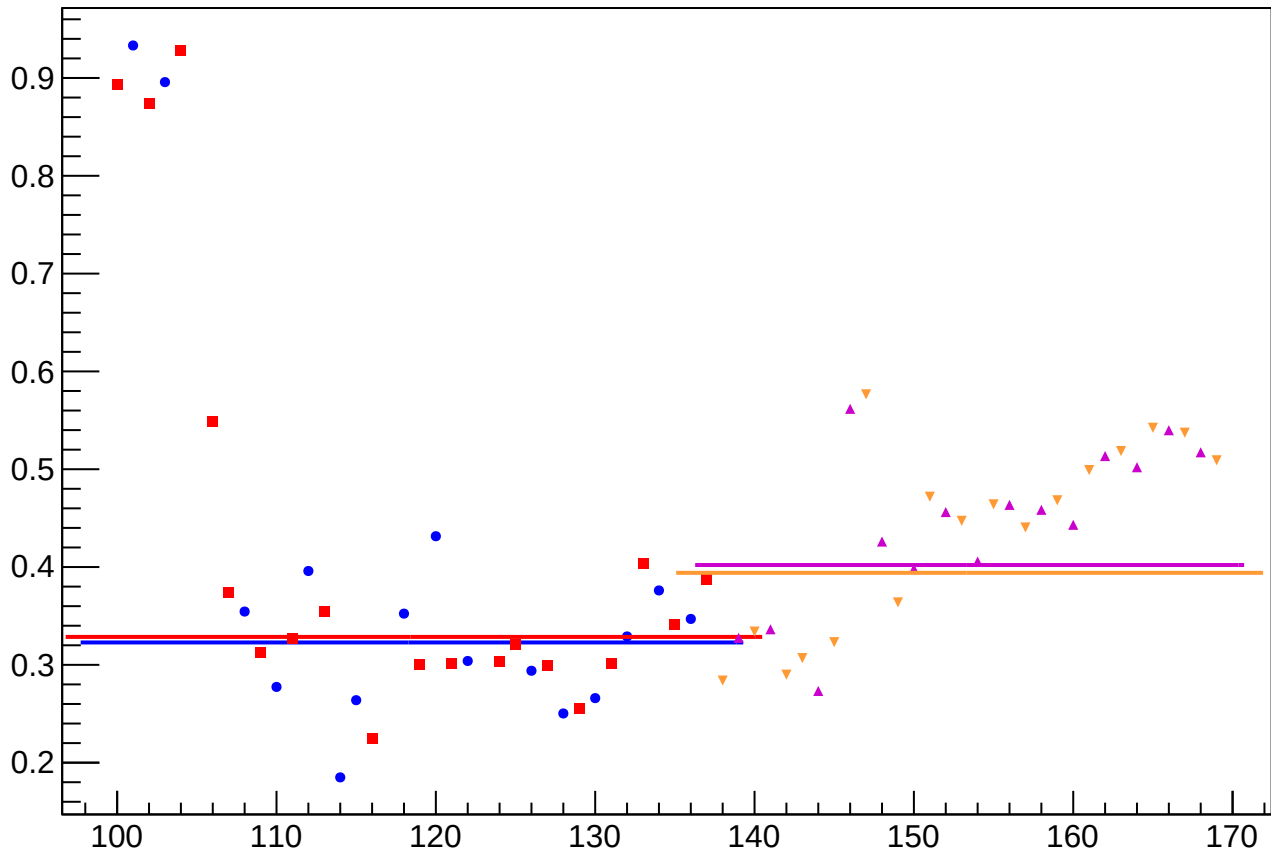
All: 0.367+/-0.000 χ^2/NDF : 5763780.7/66

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.176 $\pm$ 0.000	χ^2 /NDF: 3724747268.7/15	Left: 147.746 $\pm$ 0.000	χ^2 /NDF: 328103339.6/31
Left Out: 147.933 $\pm$ 0.000	χ^2 /NDF: 33866453.0/16	Right: 144.240 $\pm$ 0.000	χ^2 /NDF: 7989709366.0/34
Right Out: 144.304 $\pm$ 0.000	χ^2 /NDF: 4264494940.7/18	In: 146.032 $\pm$ 0.000	χ^2 /NDF: 4369333335.8/30
Left In: 147.538 $\pm$ 0.000	χ^2 /NDF: 288446843.1/14	Out: 146.417 $\pm$ 0.000	χ^2 /NDF: 4731133849.9/35
		All: 146.230 $\pm$ 0.000	χ^2 /NDF: 9110160337.6

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.323+/-0.000 χ^2/NDF : 1396024.1/15

Left Out: 0.394+/-0.000 χ^2/NDF :1360297.5/16

Right Out: 0.329+/-0.000 χ^2/NDF : 1304148.7/18

Left In: 0.402+/-0.000 χ^2/NDF :1043354.3/14

Left: 0.398+/-0.000 χ^2/NDF : 2408386.2/31

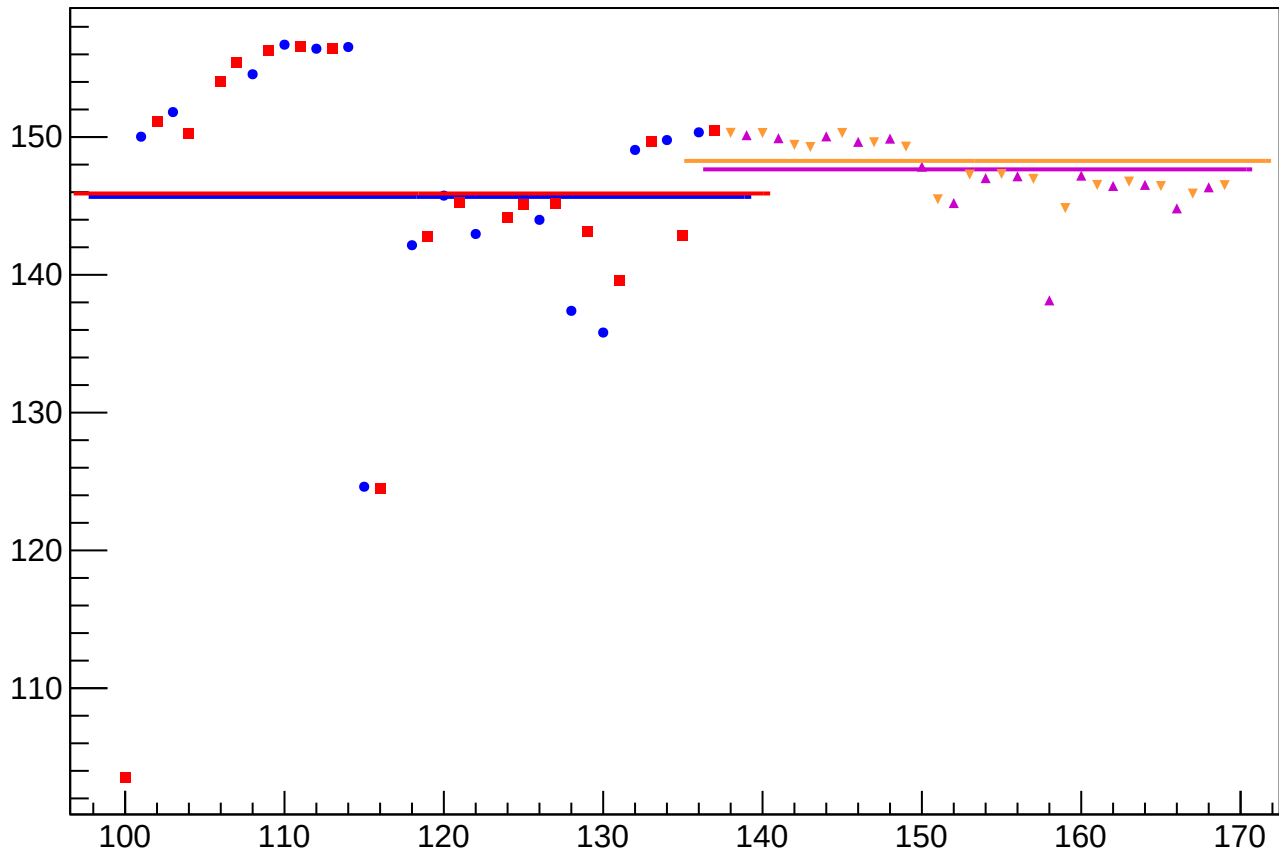
Right: 0.326+/-0.000 χ^2/NDF : 2702003.2/34

In: 0.367+/-0.000 χ^2/NDF :2834510.8/30

Out: 0.367+/-0.000 χ^2/NDF :2946679.7/35

All: 0.367+/-0.000 χ^2/NDF : 5781192.0/66

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 145.657+/-0.000 χ^2/NDF : 3481495345.2/15

Left Out: 148.270+/-0.000 χ^2/NDF : 241048120.0/16

Right Out: 145.904+/-0.000 χ^2/NDF : 3863011865.2/18

Left In: 147.654+/-0.000 χ^2/NDF : 551799990.3/14

Left: 147.977+/-0.000 χ^2/NDF : 805959454.1/31

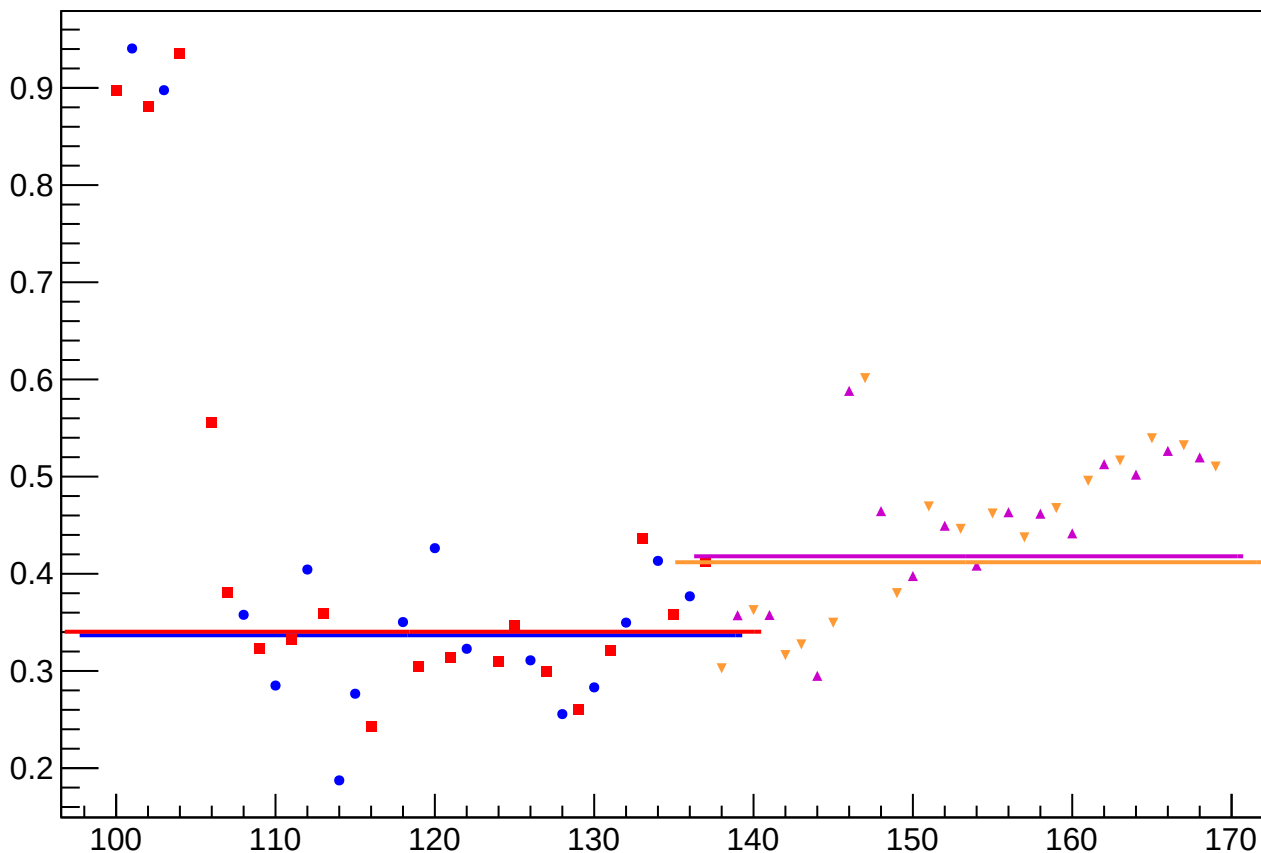
Right: 145.781+/-0.000 χ^2/NDF : 7346117767.9/34

In: 146.768+/-0.000 χ^2/NDF : 4149629662.8/30

Out: 147.278+/-0.000 χ^2/NDF : 4274819305.8/35

All: 147.030+/-0.000 χ^2/NDF : 8440269539.8

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.337 $\pm$ 0.000 χ^2/NDF : 1370512.1/15

Left Out: 0.412 $\pm$ 0.000 χ^2/NDF :1012663.6/16

Right Out: 0.340 $\pm$ 0.000 χ^2/NDF : 1274717.4/18

Left In: 0.418 $\pm$ 0.000 χ^2/NDF :798422.2/14

Left: 0.415 $\pm$ 0.000 χ^2/NDF : 1813691.2/31

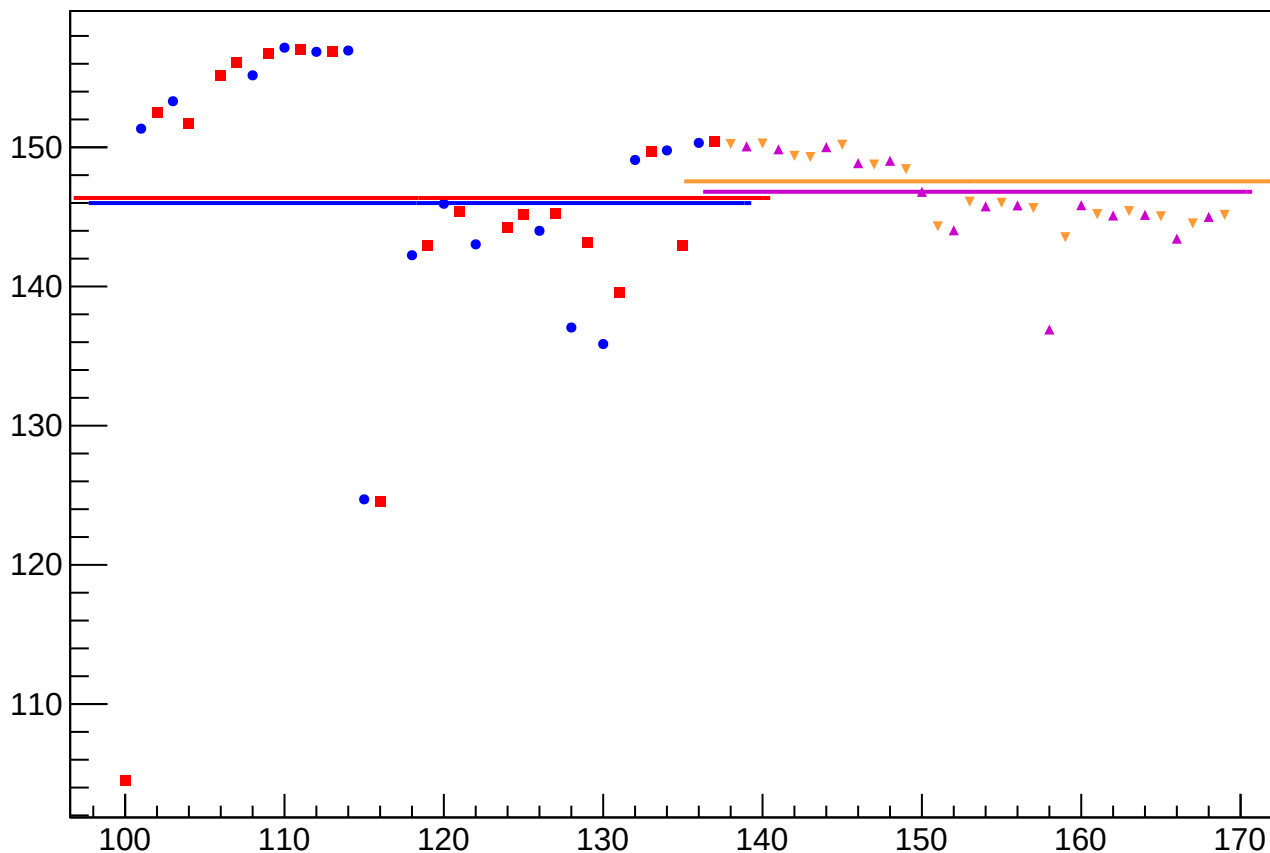
Right: 0.339 $\pm$ 0.000 χ^2/NDF : 2645924.6/34

In: 0.382 $\pm$ 0.000 χ^2/NDF :2554372.7/30

Out: 0.382 $\pm$ 0.000 χ^2/NDF :2599439.4/35

All: 0.382 $\pm$ 0.000 χ^2/NDF : 5153812.6/66

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 145.993 $\pm$ 0.000 χ^2 /NDF: 3621634656.4/15

Left Out: 147.555 $\pm$ 0.000 χ^2 /NDF: 407302637.2/16

Right Out: 146.358 $\pm$ 0.000 χ^2 /NDF: 3963122316.1/18

Left In: 146.804 $\pm$ 0.000 χ^2 /NDF: 728222453.6/14

Left: 147.199 $\pm$ 0.000 χ^2 /NDF: 1154963376.8/31

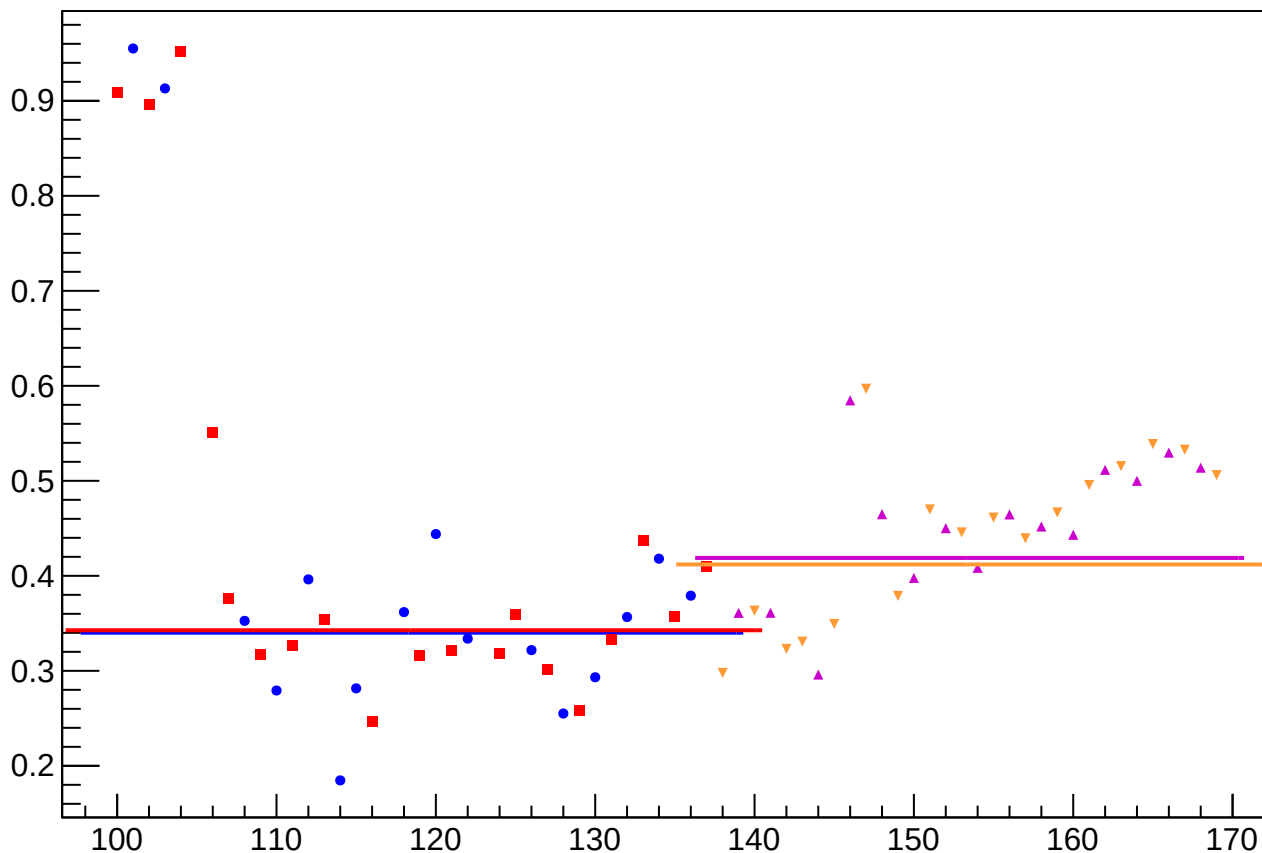
Right: 146.176 $\pm$ 0.000 χ^2 /NDF: 7588198619.6/34

In: 146.448 $\pm$ 0.000 χ^2 /NDF: 4368777423.4/30

Out: 147.057 $\pm$ 0.000 χ^2 /NDF: 4413697770.8/35

All: 146.762 $\pm$ 0.000 χ^2 /NDF: 8804847232.5

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.340 $\pm$ 0.000 χ^2 /NDF: 1393222.3/15

Left Out: 0.412 $\pm$ 0.000 χ^2 /NDF:1001818.2/16

Right Out: 0.343 $\pm$ 0.000 χ^2 /NDF: 1270731.2/18

Left In: 0.419 $\pm$ 0.000 χ^2 /NDF:762290.8/14

Left: 0.415 $\pm$ 0.000 χ^2 /NDF: 1767374.7/31

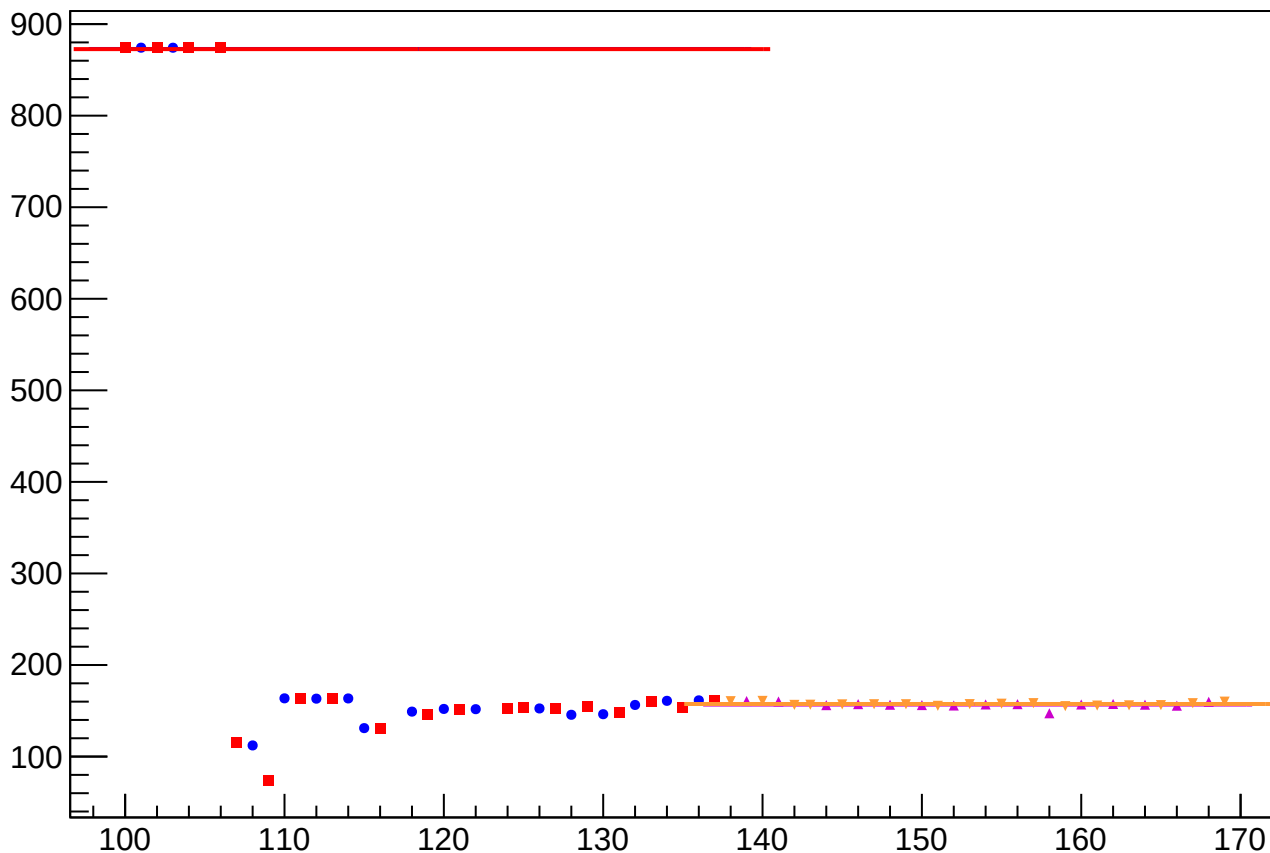
Right: 0.341 $\pm$ 0.000 χ^2 /NDF: 2664290.2/34

In: 0.384 $\pm$ 0.000 χ^2 /NDF:2511614.5/30

Out: 0.383 $\pm$ 0.000 χ^2 /NDF:2562429.9/35

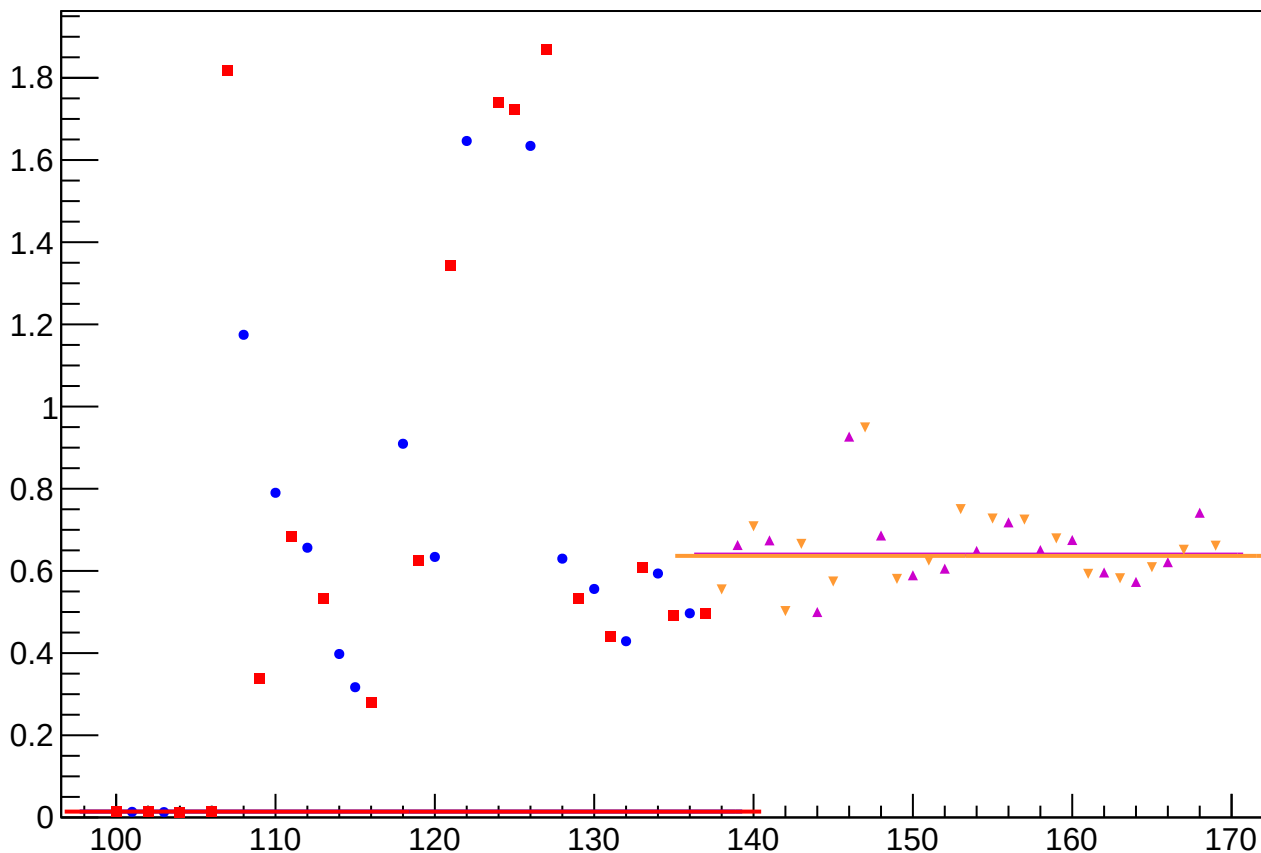
All: 0.384 $\pm$ 0.000 χ^2 /NDF: 5074203.6/66

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 872.822+/-0.000	χ^2/NDF : 7191496833472.3/15	Left: 157.125+/-0.000	χ^2/NDF : 264672686.3/31
Left Out: 157.422+/-0.000	χ^2/NDF : 77861431.0/16	Right: 872.744+/-0.000	χ^2/NDF : 16358876765227.4
Right Out: 872.676+/-0.000	χ^2/NDF : 9167298490018.9/18	In: 870.616+/-0.000	χ^2/NDF : 18445620446598.5/3
Left In: 156.798+/-0.000	χ^2/NDF : 182325740.1/14	Out: 870.568+/-0.000	χ^2/NDF : 21539782261951.4
		All: 870.590+/-0.000	χ^2/NDF : 39985411269.3

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 9622176.3/15

Left Out: 0.637 $\pm$ 0.000 χ^2 /NDF:304984.1/16

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 9410025.7/18

Left In: 0.640 $\pm$ 0.000 χ^2 /NDF:277154.2/14

Left: 0.638 $\pm$ 0.000 χ^2 /NDF: 582363.7/31

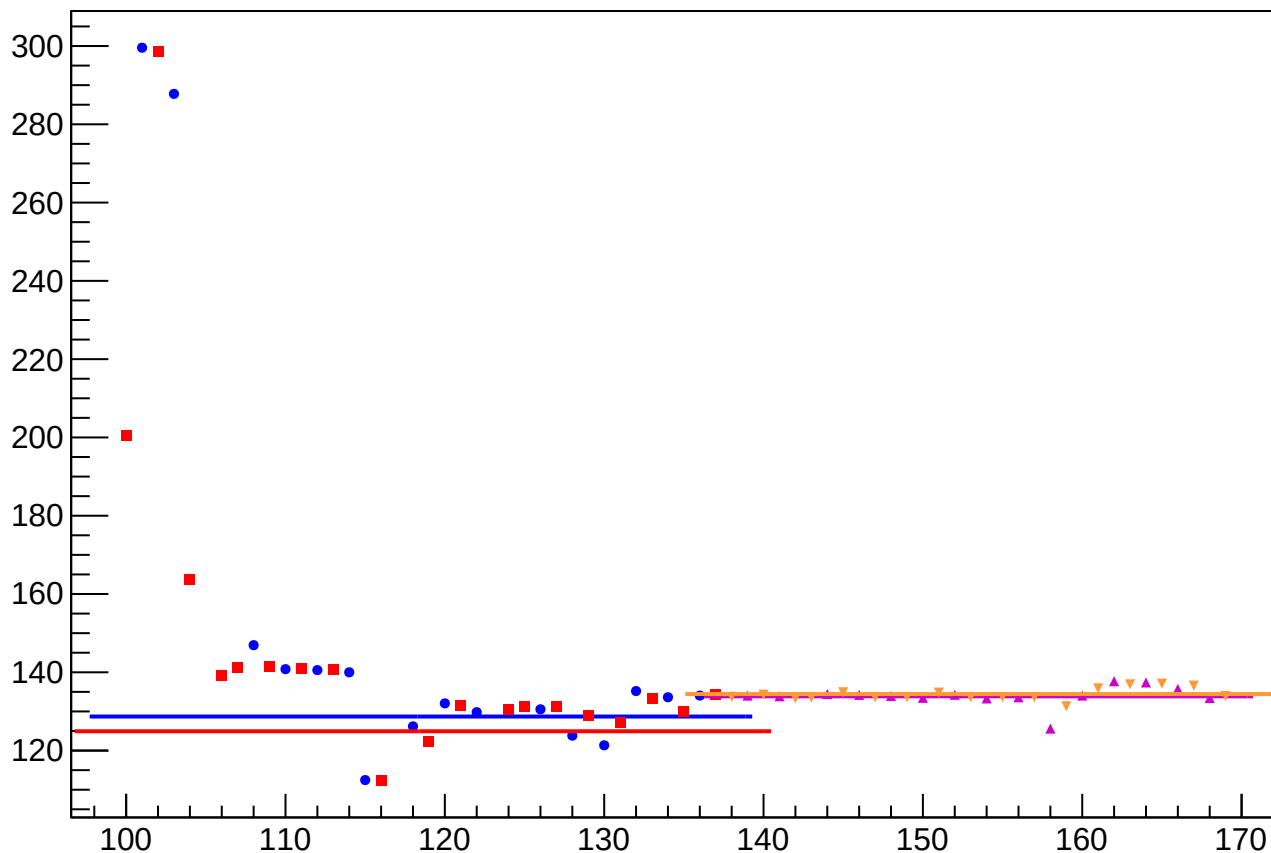
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 19032353.5/34

In: 0.016 $\pm$ 0.000 χ^2 /NDF:27067443.3/30

Out: 0.016 $\pm$ 0.000 χ^2 /NDF:28449930.6/35

All: 0.016 $\pm$ 0.000 χ^2 /NDF: 55517793.3/66

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 128.701 $\pm$ 0.000 χ^2 /NDF: 1656162604.0/15

Left Out: 134.440 $\pm$ 0.000 χ^2 /NDF: 116386904.2/16

Right Out: 124.935 $\pm$ 0.000 χ^2 /NDF: 1397923053.7/18

Left In: 133.858 $\pm$ 0.000 χ^2 /NDF: 367720980.5/14

Left: 134.167 $\pm$ 0.000 χ^2 /NDF: 492392079.8/31

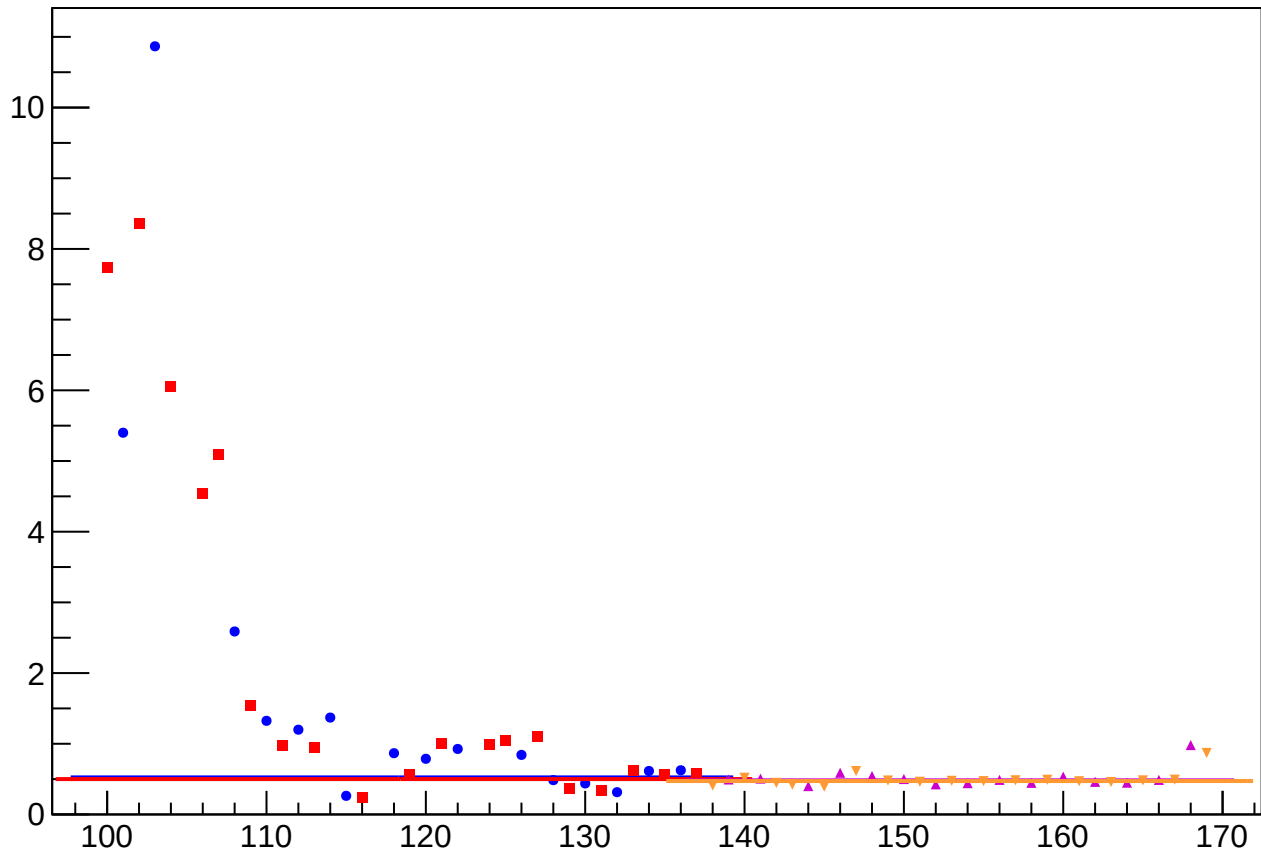
Right: 126.772 $\pm$ 0.000 χ^2 /NDF: 3151132983.0/34

In: 132.696 $\pm$ 0.000 χ^2 /NDF: 2299306543.1/30

Out: 132.422 $\pm$ 0.000 χ^2 /NDF: 2512717334.7/35

All: 132.552 $\pm$ 0.000 χ^2 /NDF: 4814374478.2

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.524 $\pm$ 0.000 χ^2 /NDF: 4138409.3/15

Left Out: 0.473 $\pm$ 0.000 χ^2 /NDF:484299.3/16

Right Out: 0.501 $\pm$ 0.000 χ^2 /NDF: 4884137.3/18

Left In: 0.483 $\pm$ 0.000 χ^2 /NDF:612920.9/14

Left: 0.477 $\pm$ 0.000 χ^2 /NDF: 1101912.1/31

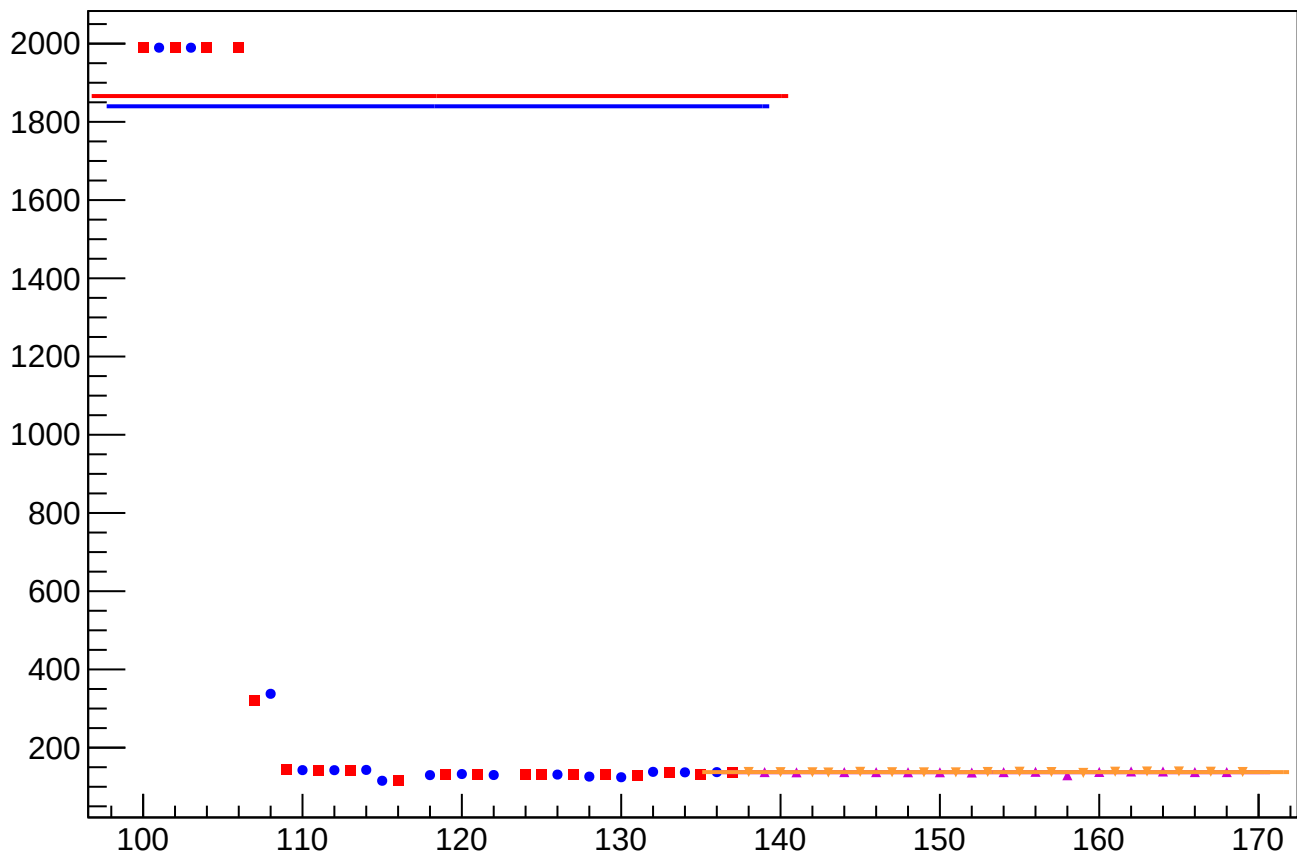
Right: 0.512 $\pm$ 0.000 χ^2 /NDF: 9030118.3/34

In: 0.492 $\pm$ 0.000 χ^2 /NDF:4786844.4/30

Out: 0.479 $\pm$ 0.000 χ^2 /NDF:5385388.4/35

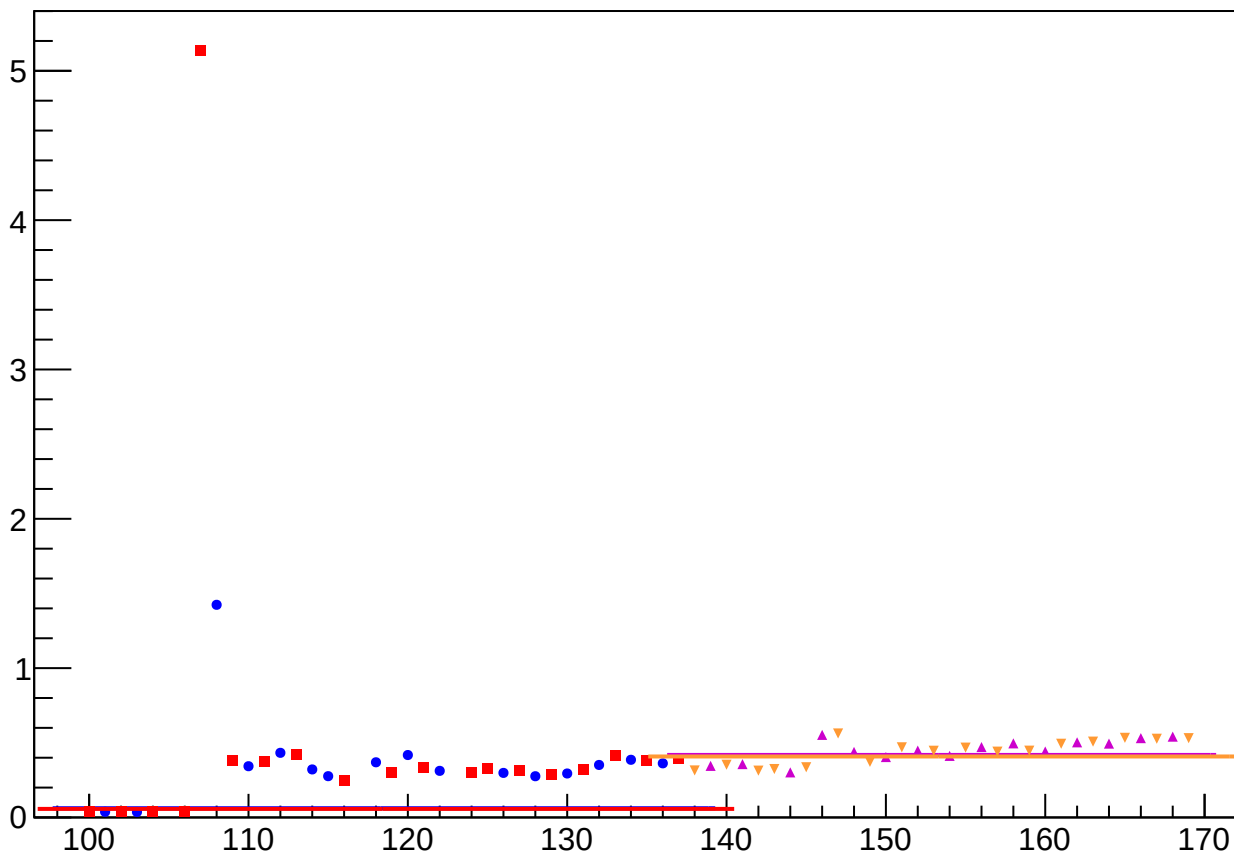
All: 0.485 $\pm$ 0.000 χ^2 /NDF: 10183208.7/66

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 1839.782+/-0.000 χ^2/NDF : 145916014549797.4/15
 Left Out: 137.476+/-0.000 χ^2/NDF : 58375309.9/16
 Right Out: 1865.968+/-0.000 χ^2/NDF : 142769122276045.8/18
 Left In: 137.202+/-0.000 χ^2/NDF : 226637714.3/14
 All: 1678.546+/-0.000 χ^2/NDF : 66098492483.1/31
 Left: 137.348+/-0.000 χ^2/NDF : 287644563.1/31
 Right: 1853.888+/-0.000 χ^2/NDF : 28889579860593.1/31
 In: 1663.338+/-0.000 χ^2/NDF : 317247932189936.1/31
 Out: 1691.611+/-0.000 χ^2/NDF : 343463416100754.1/31

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.062 $\pm$ 0.000 χ^2 /NDF: 8173578.9/15

Left Out: 0.408 $\pm$ 0.000 χ^2 /NDF:984655.4/16

Right Out: 0.057 $\pm$ 0.000 χ^2 /NDF: 7741927.9/18

Left In: 0.419 $\pm$ 0.000 χ^2 /NDF:771499.6/14

Left: 0.413 $\pm$ 0.000 χ^2 /NDF: 1763717.3/31

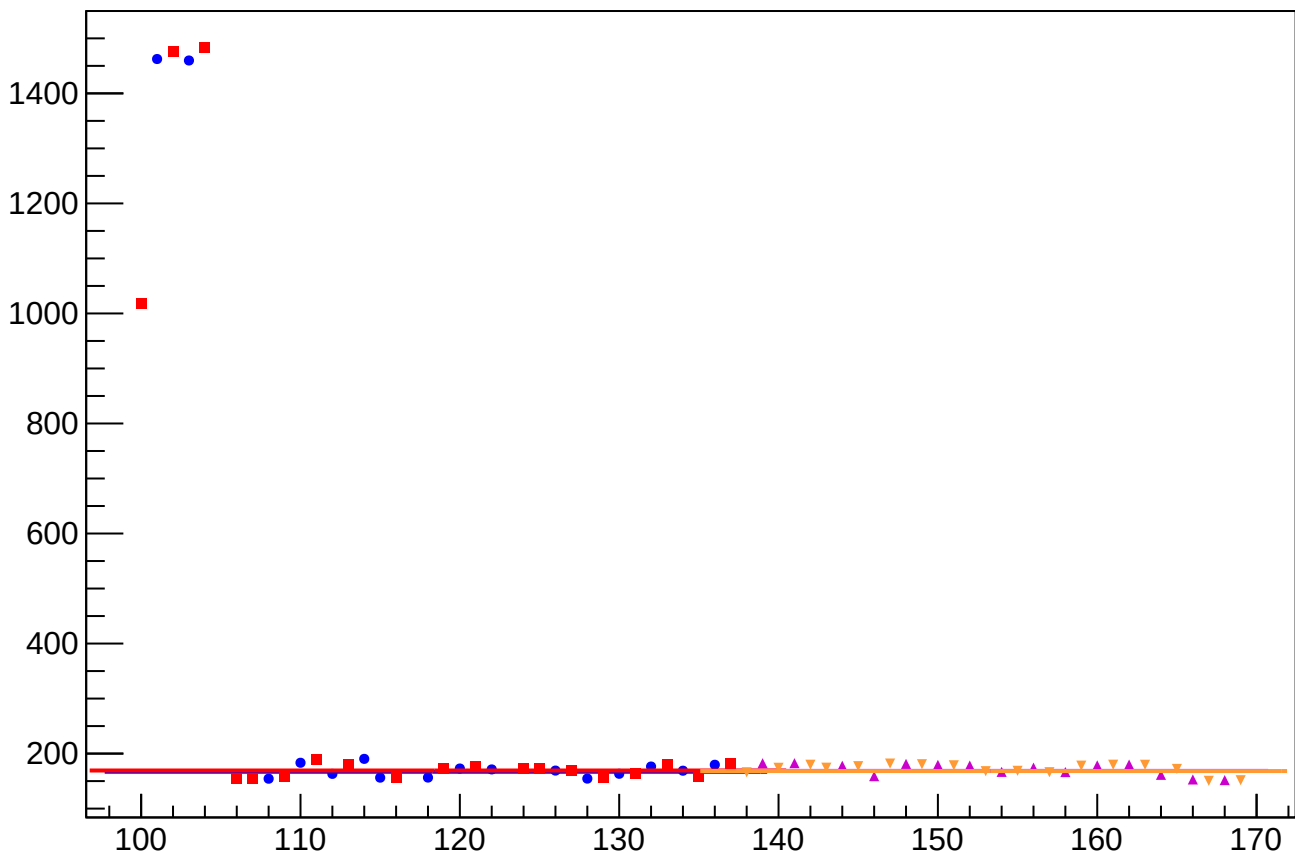
Right: 0.059 $\pm$ 0.000 χ^2 /NDF: 15927866.9/34

In: 0.099 $\pm$ 0.000 χ^2 /NDF:24006622.3/30

Out: 0.093 $\pm$ 0.000 χ^2 /NDF:25282669.7/35

All: 0.096 $\pm$ 0.000 χ^2 /NDF: 49314481.0/66

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 167.017+/-0.000

χ^2/NDF : 14614977518.5/15

Left: 168.374+/-0.000

χ^2/NDF : 3438740435.7/31

Right: 168.153+/-0.000

χ^2/NDF : 30946000130.2/34

Left Out: 168.250+/-0.000

χ^2/NDF : 1747922411.0/16

In: 168.071+/-0.000

χ^2/NDF : 16313685765.7/30

Right Out: 169.257+/-0.000

χ^2/NDF : 16317542946.8/18

Out: 168.530+/-0.000

χ^2/NDF : 18069455296.1/35

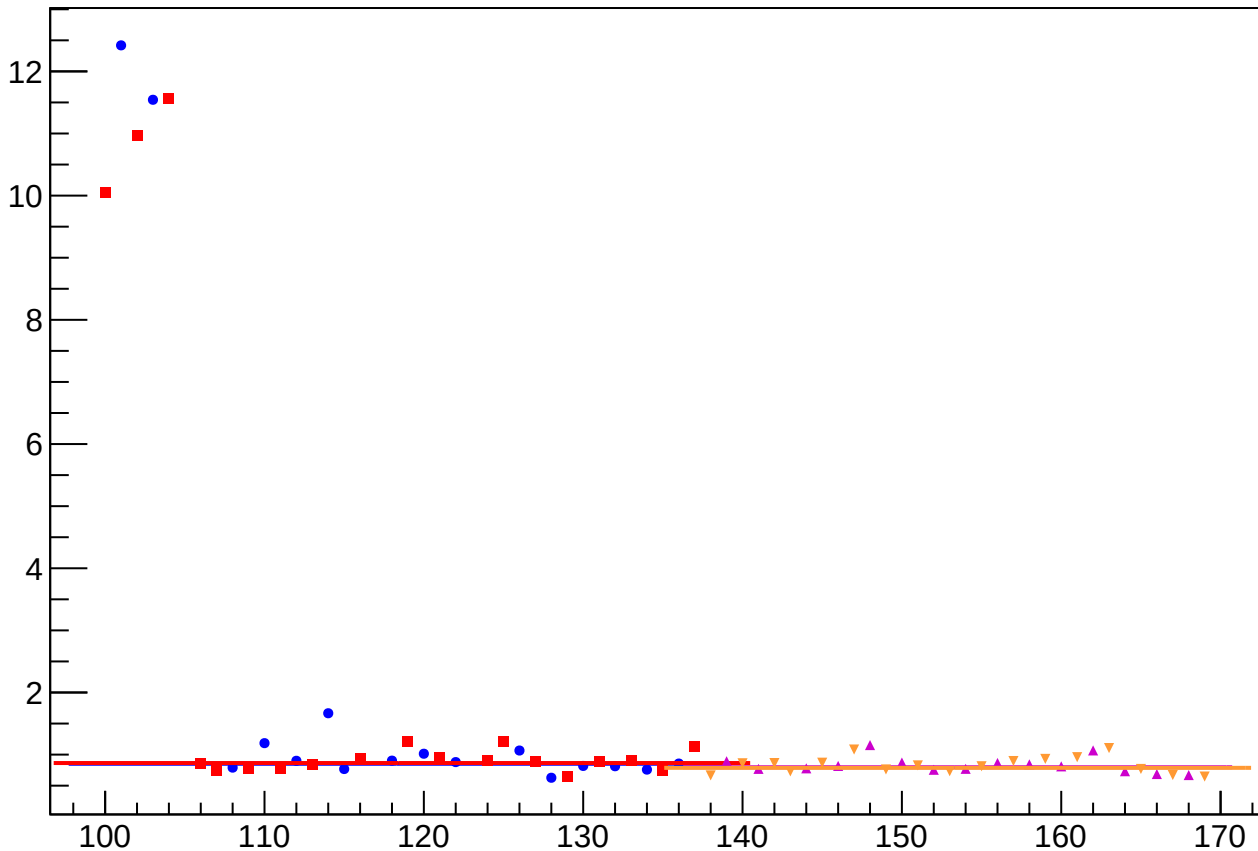
Left In: 168.512+/-0.000

χ^2/NDF : 1690360237.8/14

All: 168.311+/-0.000

χ^2/NDF : 34385114378.

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.853+/-0.000 χ^2/NDF : 2302297.2/15

Left Out: 0.787+/-0.000 χ^2/NDF : 431366.8/16

Right Out: 0.864+/-0.000 χ^2/NDF : 2209232.6/18

Left In: 0.796+/-0.000 χ^2/NDF : 309148.2/14

Left: 0.791+/-0.000 χ^2/NDF : 741727.0/31

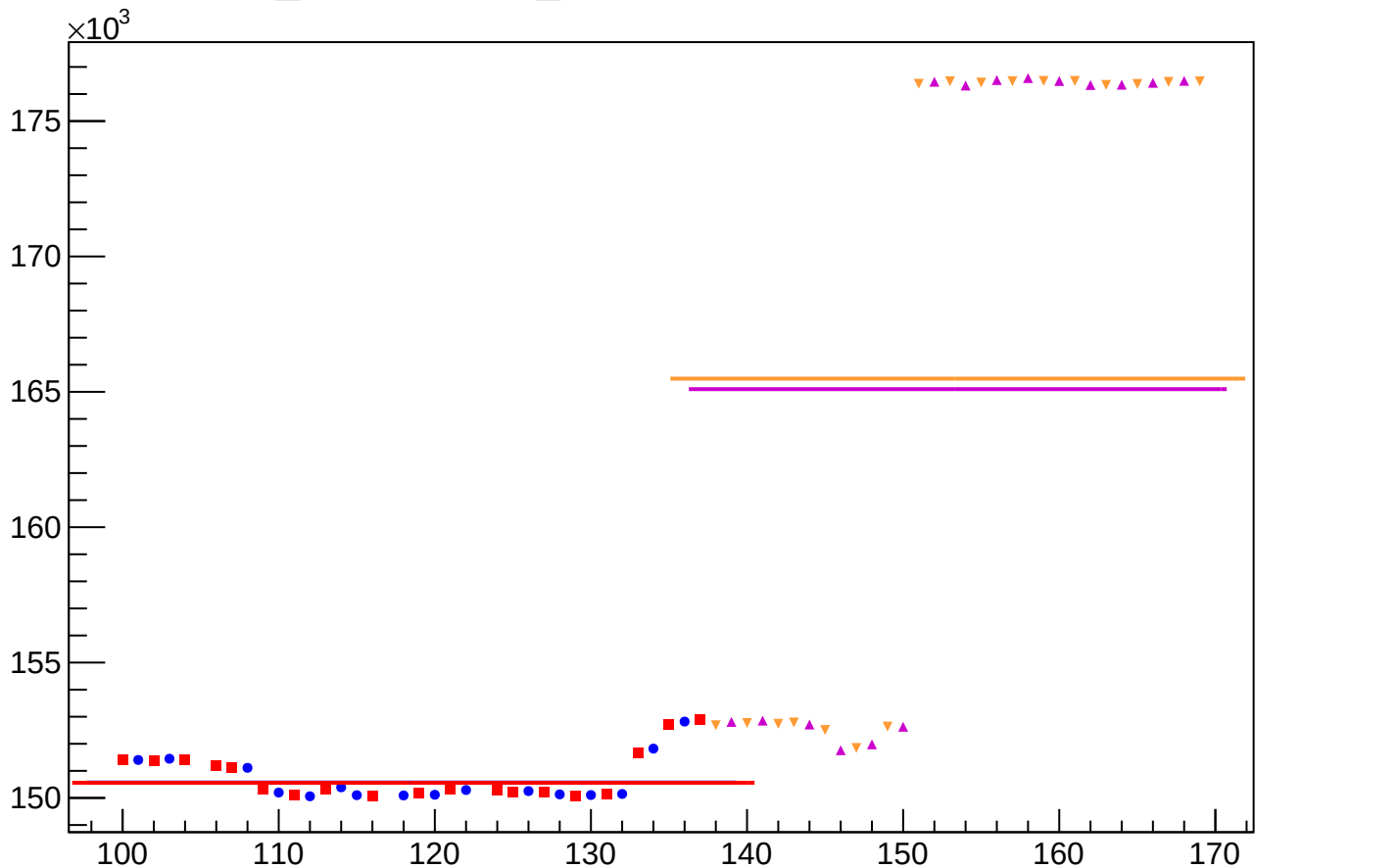
Right: 0.859+/-0.000 χ^2/NDF : 4512219.1/34

In: 0.813+/-0.000 χ^2/NDF : 2635298.0/30

Out: 0.808+/-0.000 χ^2/NDF : 2687661.5/35

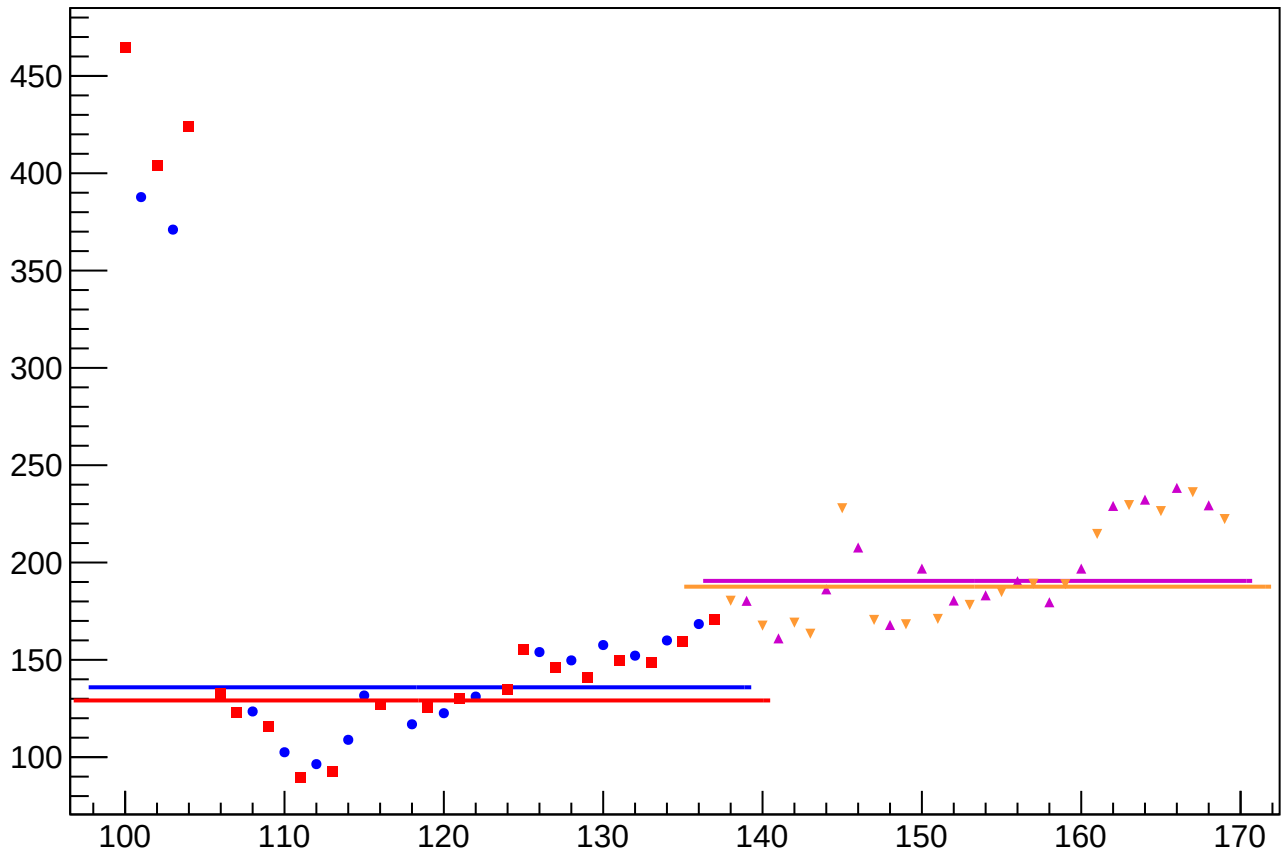
All: 0.811+/-0.000 χ^2/NDF : 5323363.5/66

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 150568.638 $\pm$ 0.055	χ^2/NDF : 237155171.8/15	Left: 165303.891 $\pm$ 0.038	χ^2/NDF : 100168389158.
Left Out: 165487.563 $\pm$ 0.052	χ^2/NDF : 52503893875.8/16	Right: 150564.903 $\pm$ 0.037	χ^2/NDF : 434664709.4/3
Right Out: 150561.647 $\pm$ 0.051	χ^2/NDF : 197500782.5/18	In: 157804.873 $\pm$ 0.039	χ^2/NDF : 83131820817.1/3
Left In: 165099.181 $\pm$ 0.055	χ^2/NDF : 47638048536.4/14	Out: 157886.315 $\pm$ 0.036	χ^2/NDF : 94764175140.7
		All: 157848.098 $\pm$ 0.027	χ^2/NDF : 177898347

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 135.896 ± 0.039 χ^2/NDF : 1416332.3/15

Left Out: 187.590 ± 0.037 χ^2/NDF : 405299.1/16

Right Out: 129.130 ± 0.036 χ^2/NDF : 1614311.0/18

Left In: 190.566 ± 0.039 χ^2/NDF : 304593.5/14

Left: 188.997 ± 0.027 χ^2/NDF : 712997.7/31

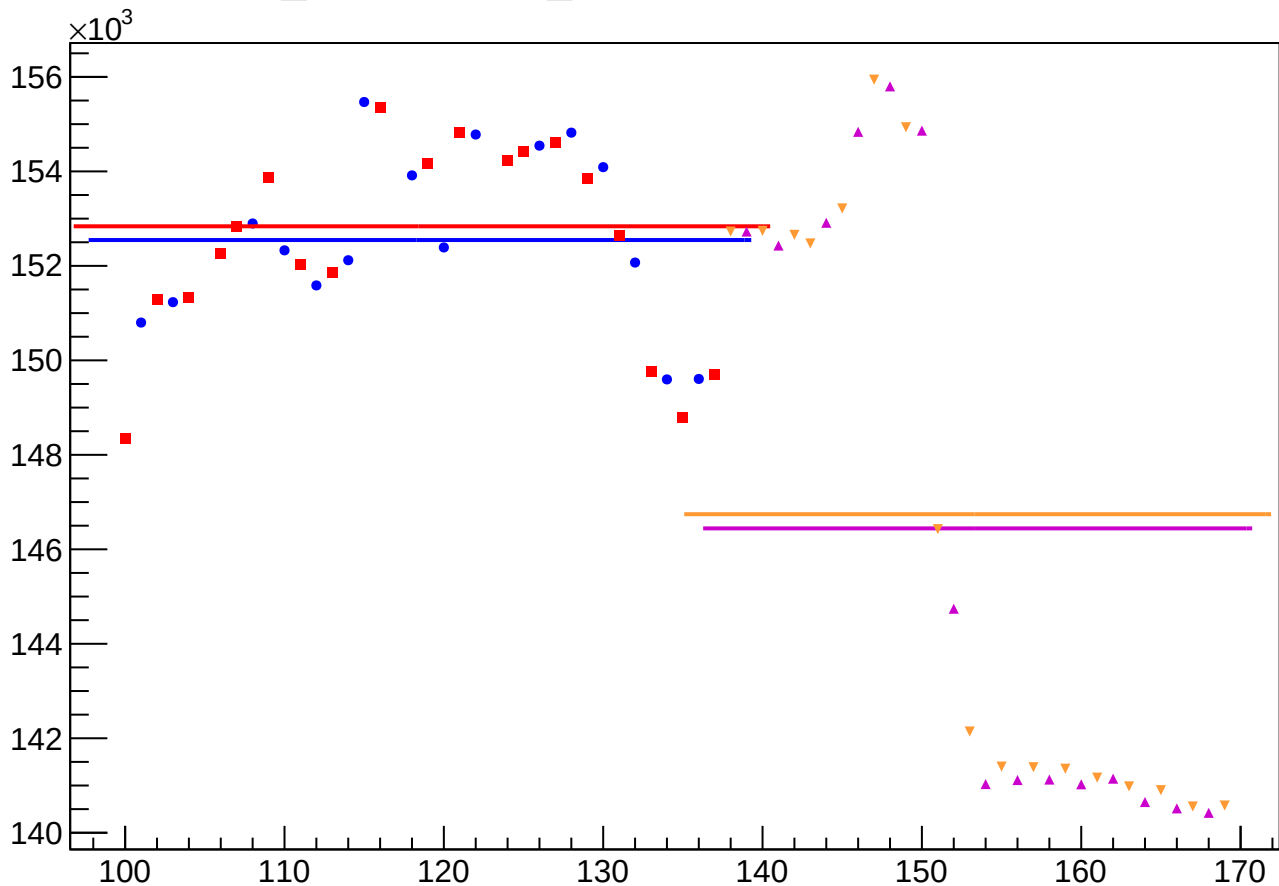
Right: 132.281 ± 0.026 χ^2/NDF : 3047045.4/34

In: 163.122 ± 0.027 χ^2/NDF : 2719082.9/30

Out: 157.819 ± 0.026 χ^2/NDF : 3310105.4/35

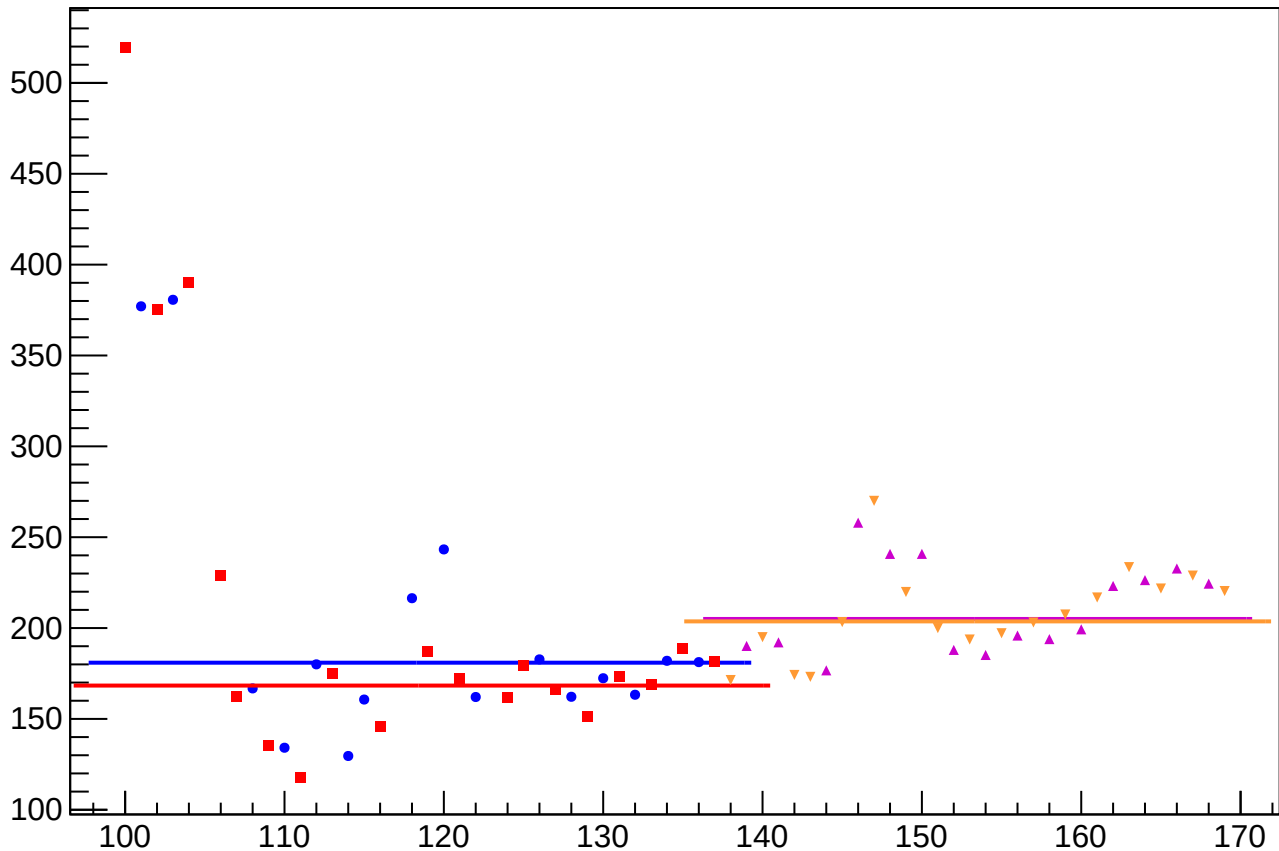
All: 160.307 ± 0.019 χ^2/NDF : 6049127.8/66

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152546.899 $\pm$ 0.073	χ^2 /NDF: 654540559.6/15	Left: 146599.985 $\pm$ 0.041	χ^2 /NDF: 21469717735.9/15
Left Out: 146743.134 $\pm$ 0.056	χ^2 /NDF: 10799391556.4/16	Right: 152704.814 $\pm$ 0.049	χ^2 /NDF: 1400162101.0/16
Right Out: 152837.888 $\pm$ 0.067	χ^2 /NDF: 736907066.8/18	In: 148876.728 $\pm$ 0.046	χ^2 /NDF: 15559948997.5/3
Left In: 146442.935 $\pm$ 0.059	χ^2 /NDF: 10656843016.5/14	Out: 149288.766 $\pm$ 0.043	χ^2 /NDF: 16404253389.6/14
		All: 149095.576 $\pm$ 0.031	χ^2 /NDF: 320070921.0/14

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 180.938+/-0.051 χ^2/NDF : 907758.2/15

Left Out: 203.672+/-0.040 χ^2/NDF : 315474.3/16

Right Out: 168.349+/-0.047 χ^2/NDF : 1089090.2/18

Left In: 205.003+/-0.042 χ^2/NDF : 306426.0/14

Left: 204.307+/-0.029 χ^2/NDF : 622430.8/31

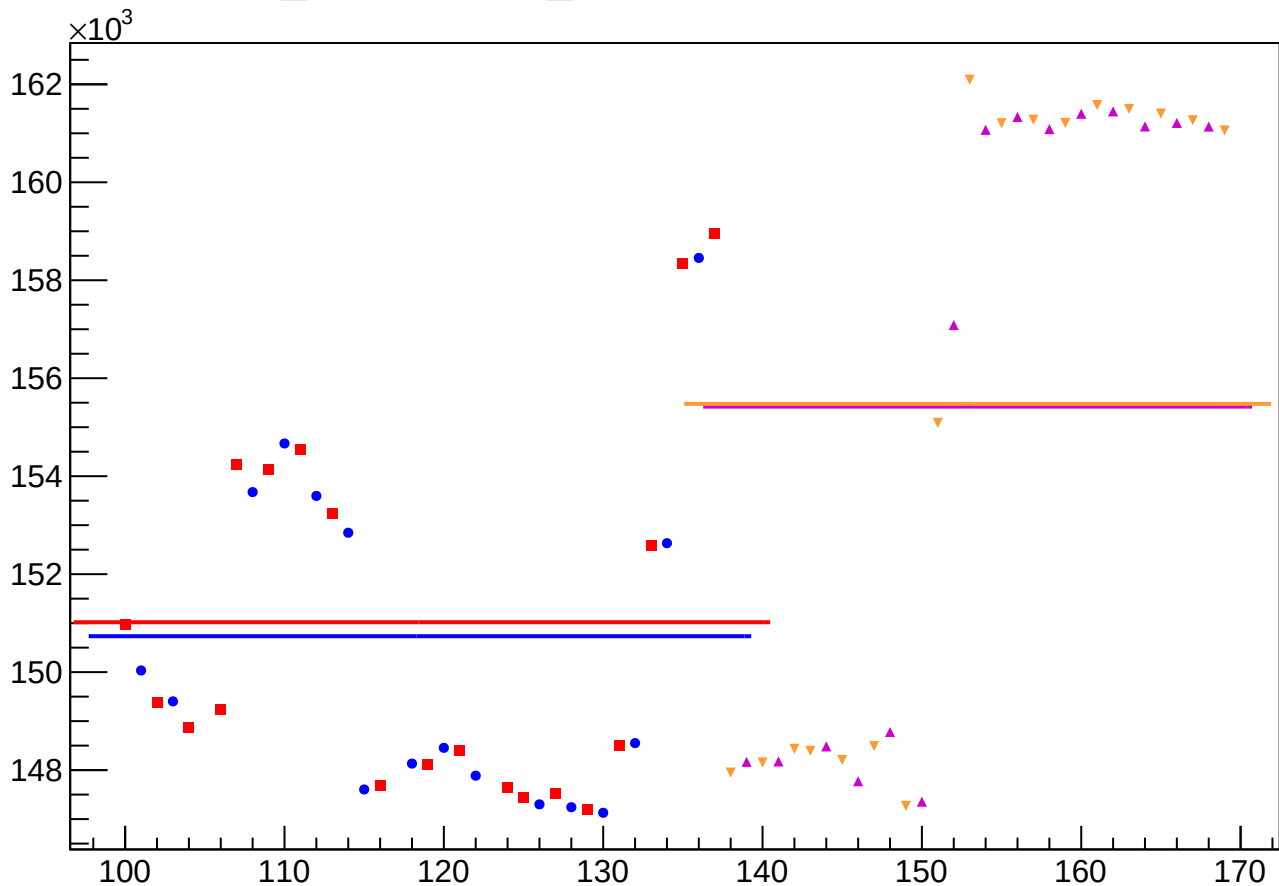
Right: 174.106+/-0.035 χ^2/NDF : 2029471.3/34

In: 195.408+/-0.032 χ^2/NDF : 1346256.9/30

Out: 188.918+/-0.030 χ^2/NDF : 1731581.2/35

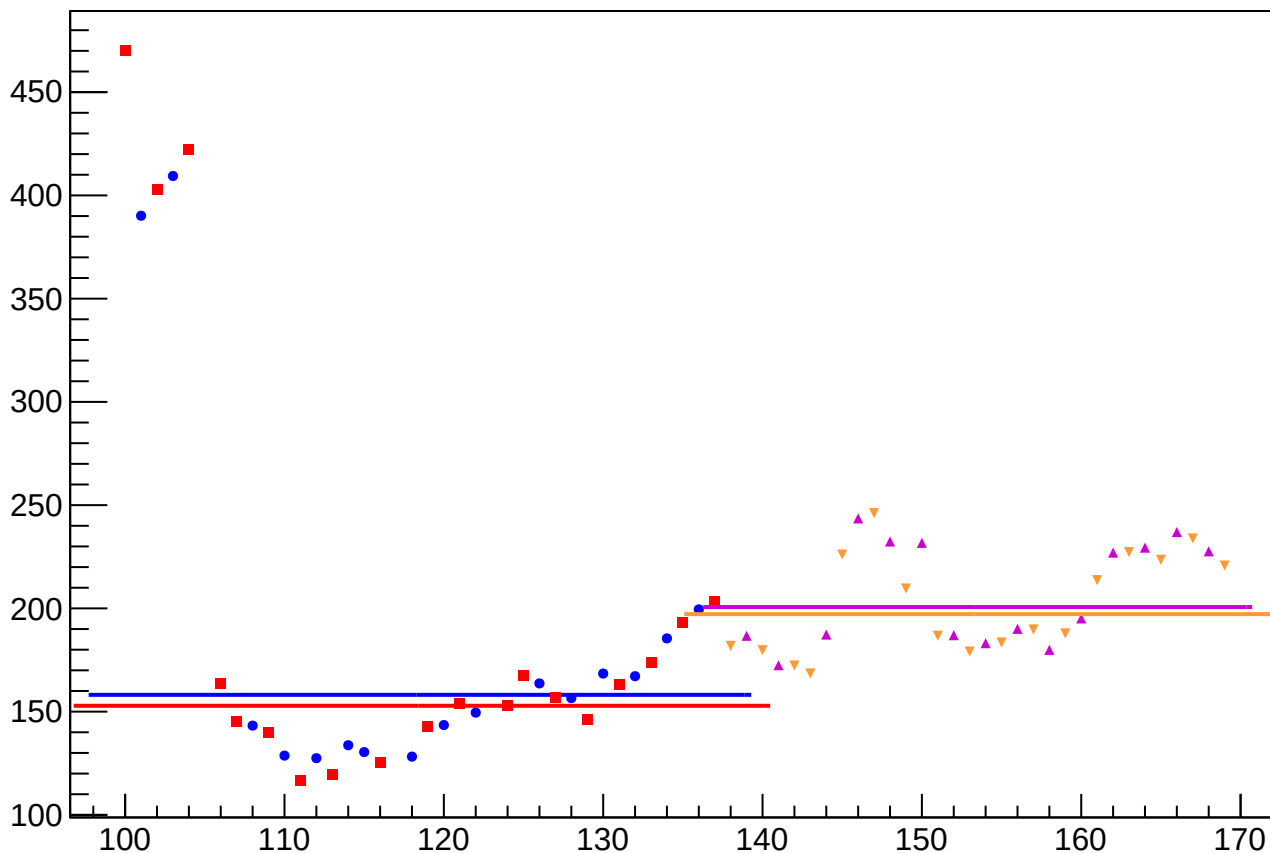
All: 191.961+/-0.022 χ^2/NDF : 3099117.5/66

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 150733.301 $\pm$ 0.063	χ^2 /NDF: 3283848751.0/15	Left: 155450.566 $\pm$ 0.040	χ^2 /NDF: 25436463344.0
Left Out: 155476.769 $\pm$ 0.055	χ^2 /NDF: 13673972979.7/16	Right: 150882.491 $\pm$ 0.043	χ^2 /NDF: 6580735457.3
Right Out: 151018.500 $\pm$ 0.060	χ^2 /NDF: 3286131878.7/18	In: 153276.309 $\pm$ 0.043	χ^2 /NDF: 18059142959.5/3
Left In: 155421.184 $\pm$ 0.058	χ^2 /NDF: 11762000913.5/14	Out: 153461.276 $\pm$ 0.040	χ^2 /NDF: 19979651616.2
		All: 153373.621 $\pm$ 0.029	χ^2 /NDF: 380487382

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 158.138+/-0.044 χ^2/NDF : 1195699.5/15

Left Out: 197.222+/-0.039 χ^2/NDF :338386.7/16

Right Out: 152.841+/-0.042 χ^2/NDF : 1264236.1/18

Left In: 200.654+/-0.041 χ^2/NDF :327928.8/14

Left: 198.840+/-0.028 χ^2/NDF : 670046.5/31

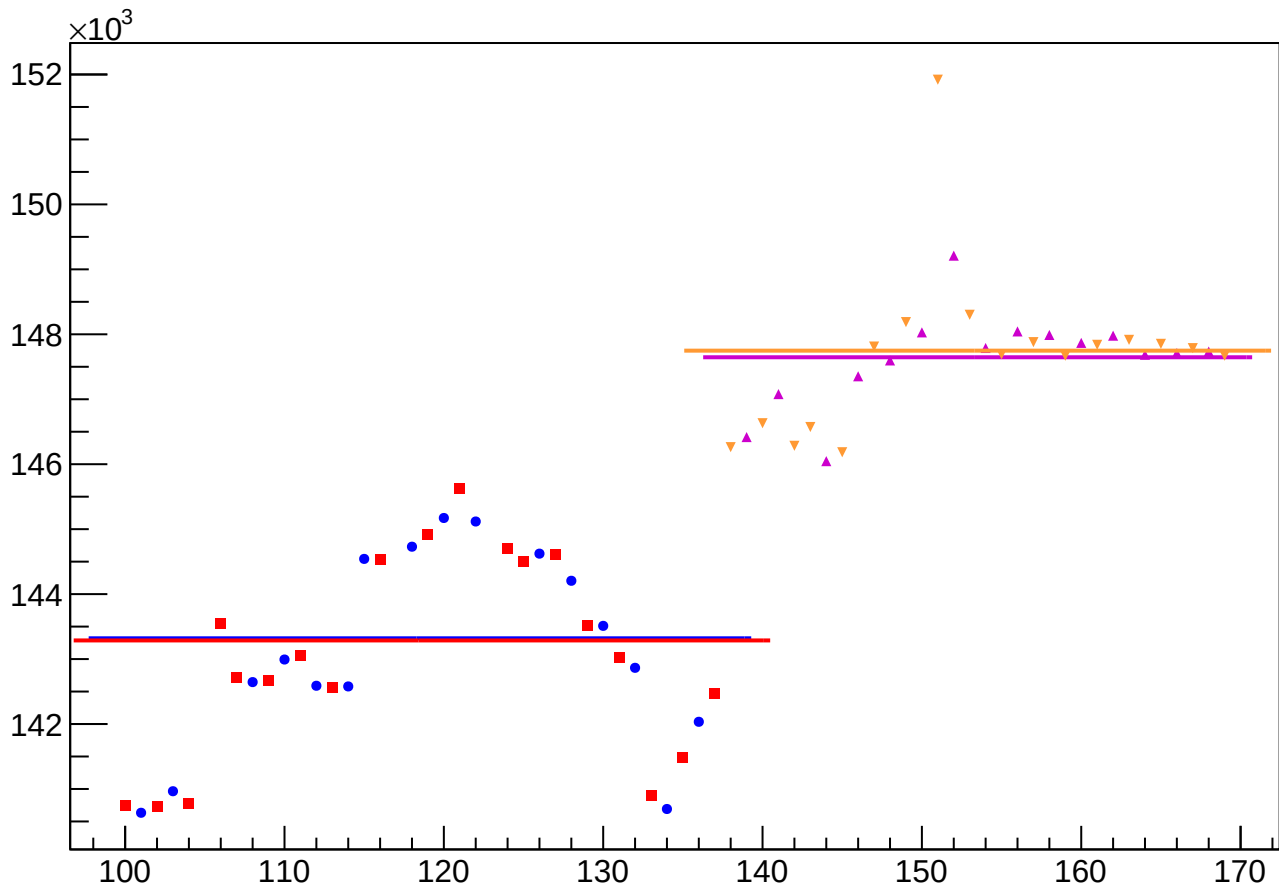
Right: 155.367+/-0.031 χ^2/NDF : 2467354.6/34

In: 181.201+/-0.030 χ^2/NDF :2019335.6/30

Out: 177.158+/-0.029 χ^2/NDF :2201084.1/35

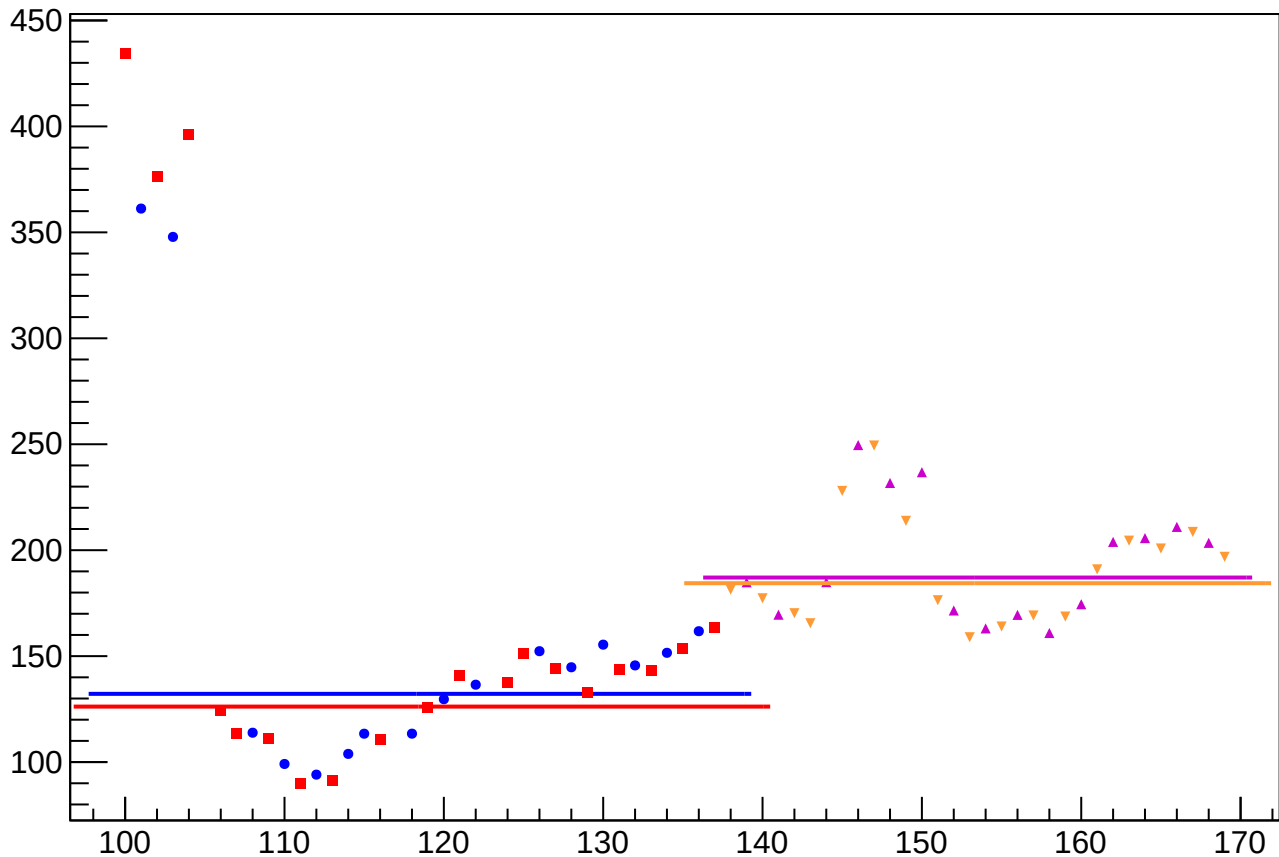
All: 179.074+/-0.021 χ^2/NDF : 4229920.6/66

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 143319.651 $\pm$ 0.053	χ^2 /NDF: 559301530.7/15	Left: 147700.222 $\pm$ 0.037	χ^2 /NDF: 871903879.9/31
Left Out: 147748.335 $\pm$ 0.051	χ^2 /NDF: 670586637.4/16	Right: 143302.220 $\pm$ 0.036	χ^2 /NDF: 1180025024.1/31
Right Out: 143286.960 $\pm$ 0.050	χ^2 /NDF: 620521577.8/18	In: 145446.675 $\pm$ 0.038	χ^2 /NDF: 4019728178.3/30
Left In: 147646.414 $\pm$ 0.054	χ^2 /NDF: 199438240.2/14	Out: 145456.651 $\pm$ 0.036	χ^2 /NDF: 5208836261.0/30
		All: 145451.968 $\pm$ 0.026	χ^2 /NDF: 922860123.0/14

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 132.204 $\pm$ 0.038 χ^2 /NDF: 1379168.6/15

Left Out: 184.419 $\pm$ 0.036 χ^2 /NDF:382950.6/16

Right Out: 126.191 $\pm$ 0.035 χ^2 /NDF: 1545034.5/18

Left In: 187.088 $\pm$ 0.038 χ^2 /NDF:437614.6/14

Left: 185.679 $\pm$ 0.026 χ^2 /NDF: 823143.6/31

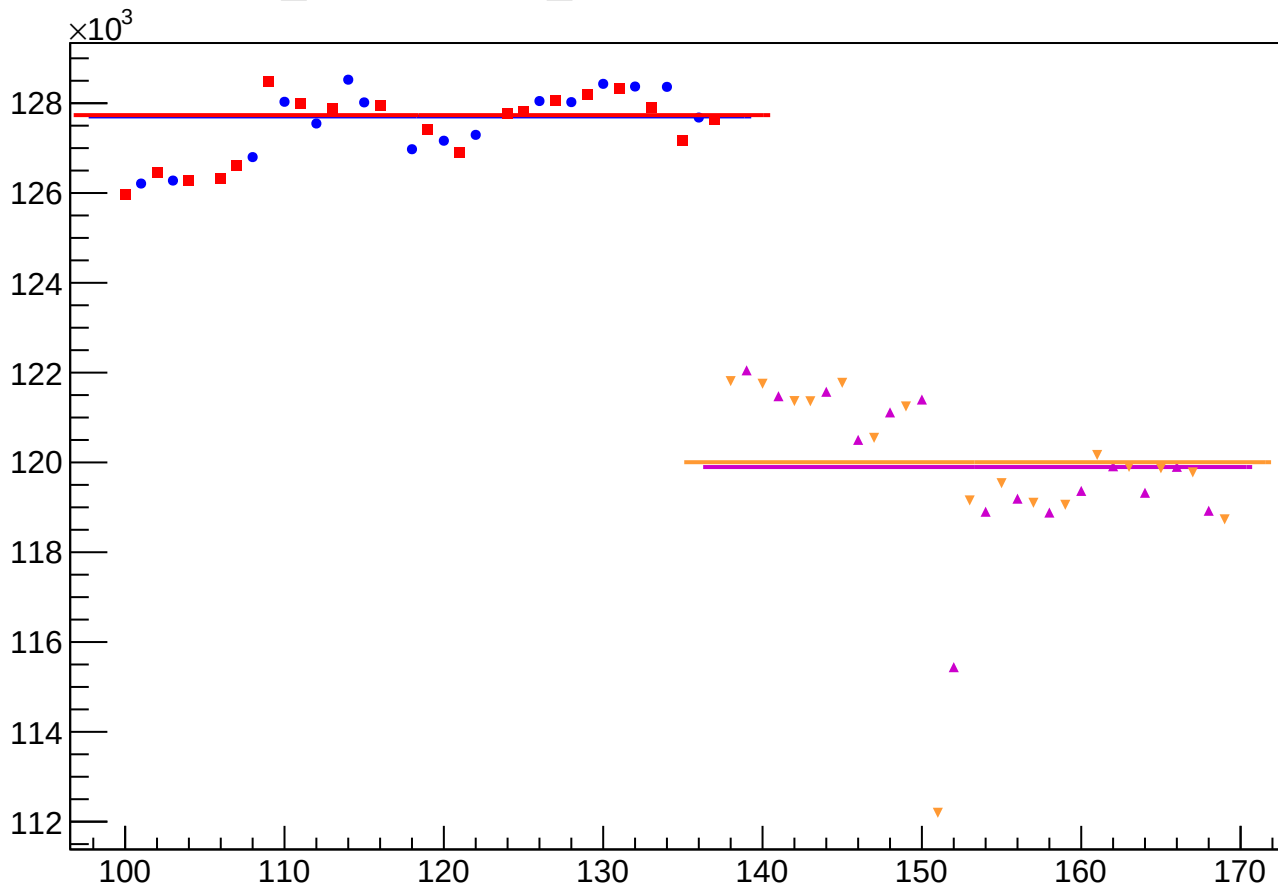
Right: 128.998 $\pm$ 0.026 χ^2 /NDF: 2937865.2/34

In: 159.185 $\pm$ 0.027 χ^2 /NDF:2866196.0/30

Out: 154.509 $\pm$ 0.025 χ^2 /NDF:3262682.3/35

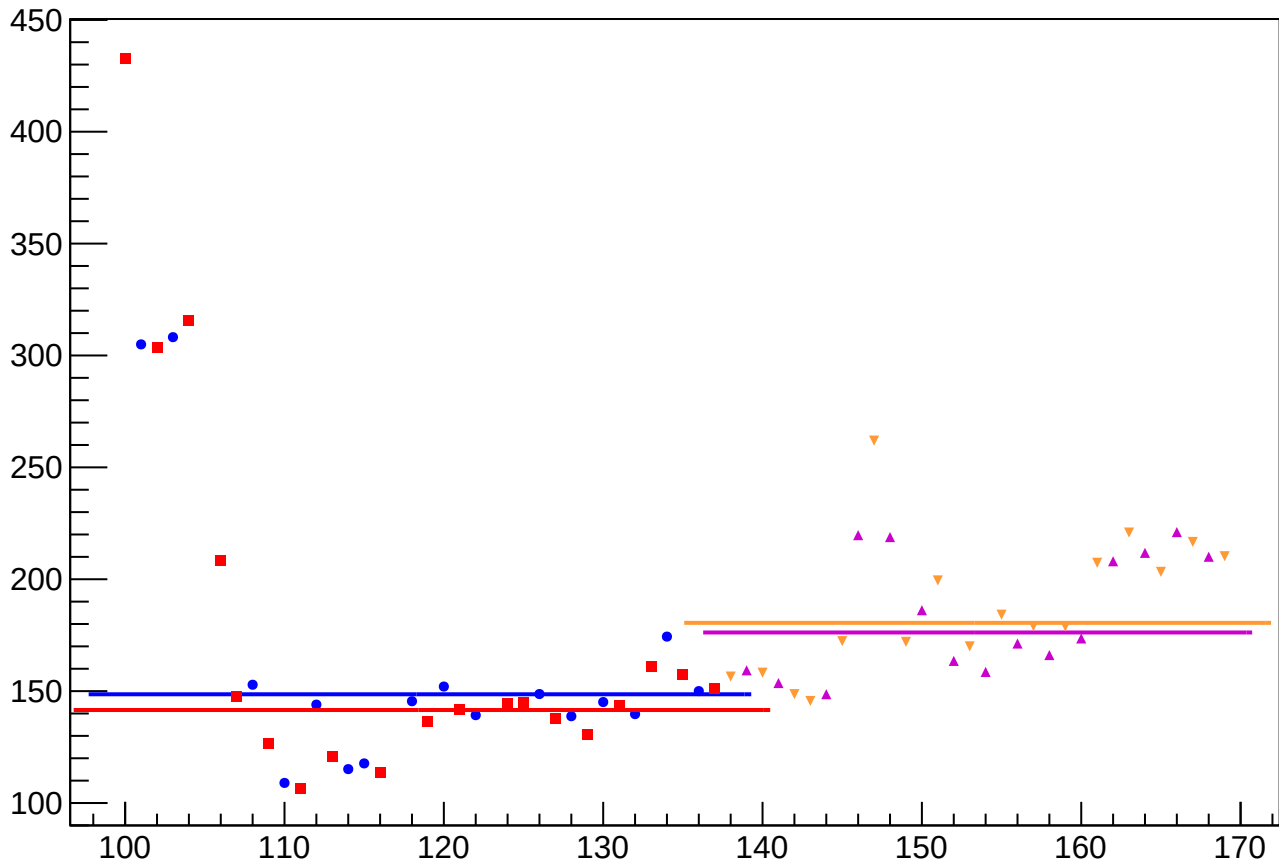
All: 156.704 $\pm$ 0.018 χ^2 /NDF: 6145052.5/66

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 127705.222+/-0.058	χ^2/NDF : 104467207.7/15	Left: 119951.740+/-0.036	χ^2/NDF : 2956029777.7/3
Left Out: 120004.890+/-0.051	χ^2/NDF : 1785022472.1/16	Right: 127720.787+/-0.040	χ^2/NDF : 214070280.4/3
Right Out: 127734.542+/-0.055	χ^2/NDF : 109469333.8/18	In: 123287.885+/-0.038	χ^2/NDF : 11380528728.4/3
Left In: 119897.201+/-0.051	χ^2/NDF : 1168765078.9/14	Out: 123548.499+/-0.037	χ^2/NDF : 12624748310.3
		All: 123422.717+/-0.027	χ^2/NDF : 240289896

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 148.593 $\pm$ 0.041 χ^2 /NDF: 827701.4/15

Left Out: 180.519 $\pm$ 0.036 χ^2 /NDF: 555781.5/16

Right Out: 141.563 $\pm$ 0.039 χ^2 /NDF: 1001225.3/18

Left In: 176.213 $\pm$ 0.036 χ^2 /NDF: 451466.5/14

Left: 178.394 $\pm$ 0.025 χ^2 /NDF: 1014419.5/31

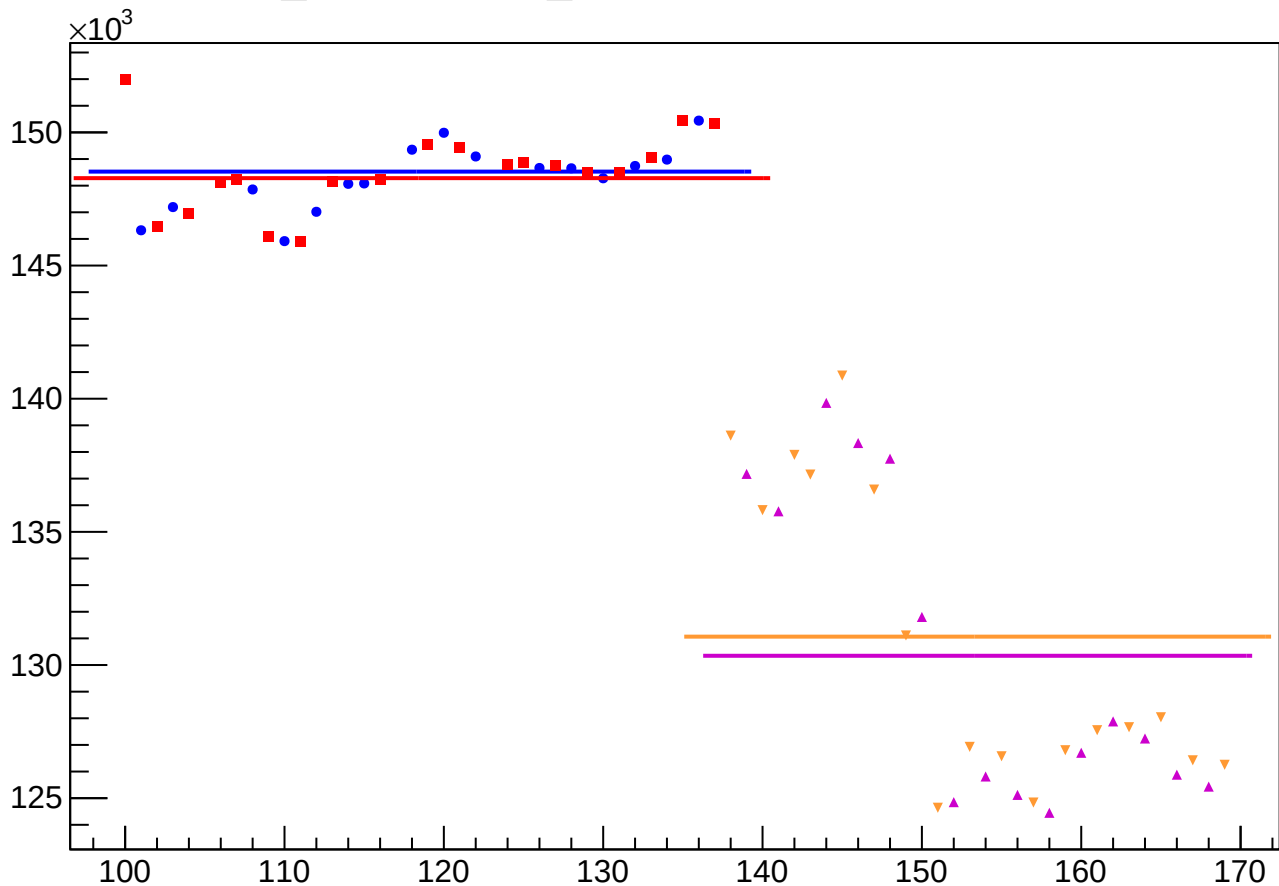
Right: 144.861 $\pm$ 0.028 χ^2 /NDF: 1844303.5/34

In: 164.219 $\pm$ 0.027 χ^2 /NDF: 1532111.9/30

Out: 162.660 $\pm$ 0.026 χ^2 /NDF: 2102105.0/35

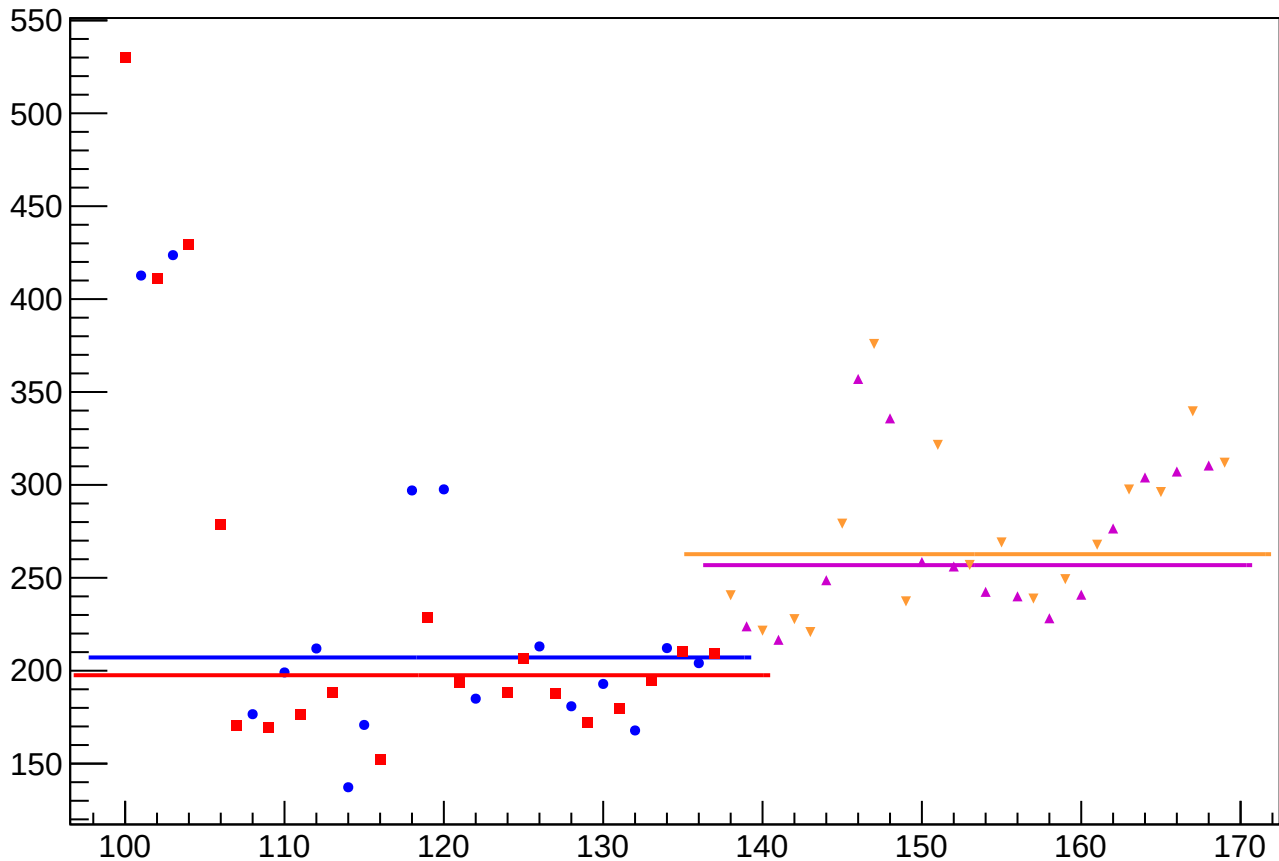
All: 163.412 $\pm$ 0.019 χ^2 /NDF: 3635913.2/66

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 148527.678 $\pm$ 0.082	χ^2 /NDF: 209208133.0/15	Left: 130711.917 $\pm$ 0.052	χ^2 /NDF: 11295887045.9
Left Out: 131065.683 $\pm$ 0.073	χ^2 /NDF: 5472100795.0/16	Right: 148396.583 $\pm$ 0.056	χ^2 /NDF: 508678498.1/3
Right Out: 148282.003 $\pm$ 0.077	χ^2 /NDF: 294673557.8/18	In: 138549.629 $\pm$ 0.055	χ^2 /NDF: 33003929104.3/3
Left In: 130347.062 $\pm$ 0.074	χ^2 /NDF: 5776283136.3/14	Out: 139277.462 $\pm$ 0.053	χ^2 /NDF: 32183838759.0
		All: 138927.918 $\pm$ 0.038	χ^2 /NDF: 652786586

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 207.135 $\pm$ 0.058 χ^2/NDF : 972216.9/15

Left Out: 262.715 $\pm$ 0.052 χ^2/NDF : 557591.2/16

Right Out: 197.571 $\pm$ 0.054 χ^2/NDF : 903999.3/18

Left In: 256.819 $\pm$ 0.053 χ^2/NDF : 492697.7/14

Left: 259.813 $\pm$ 0.037 χ^2/NDF : 1056685.1/31

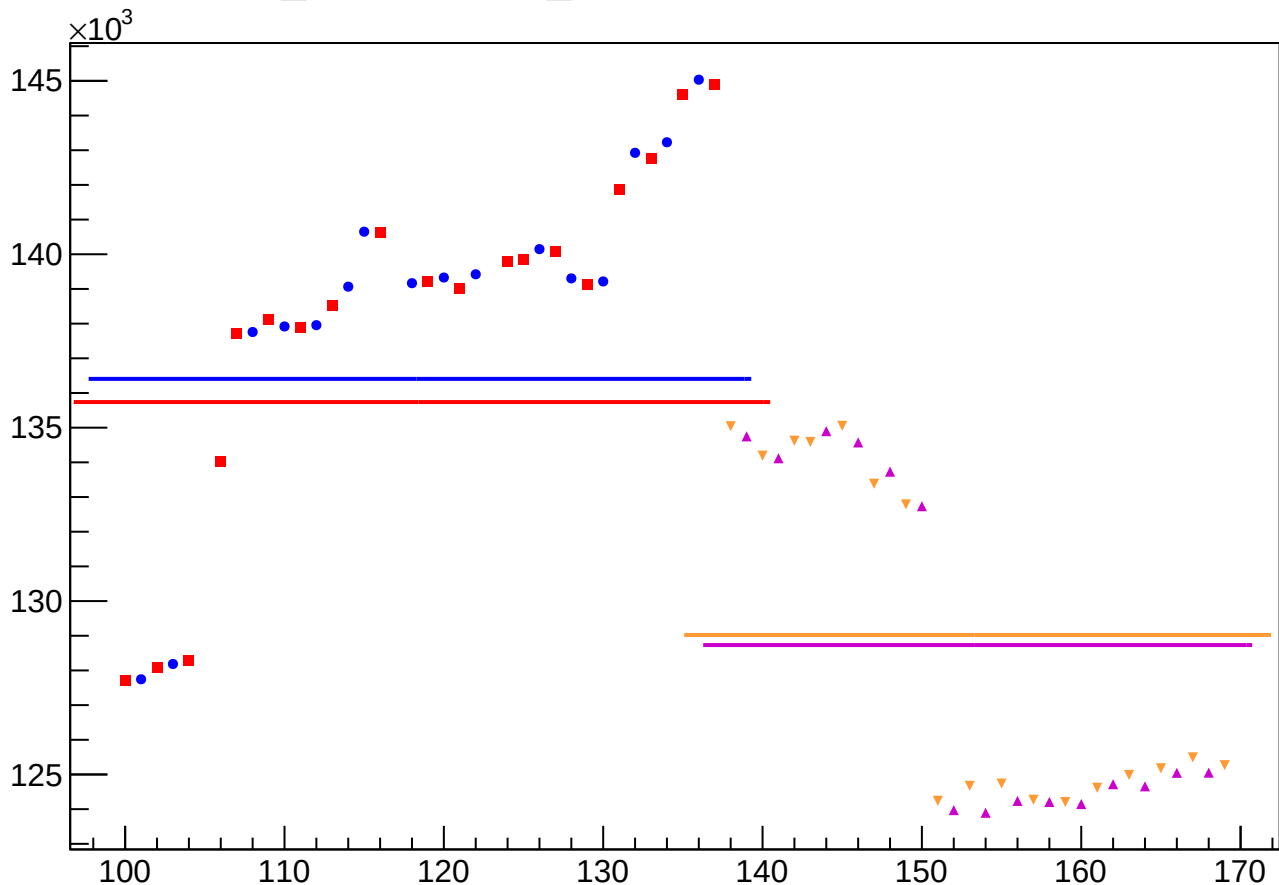
Right: 202.032 $\pm$ 0.040 χ^2/NDF : 1890755.2/34

In: 234.403 $\pm$ 0.039 χ^2/NDF : 1868473.3/30

Out: 231.643 $\pm$ 0.037 χ^2/NDF : 2218053.0/35

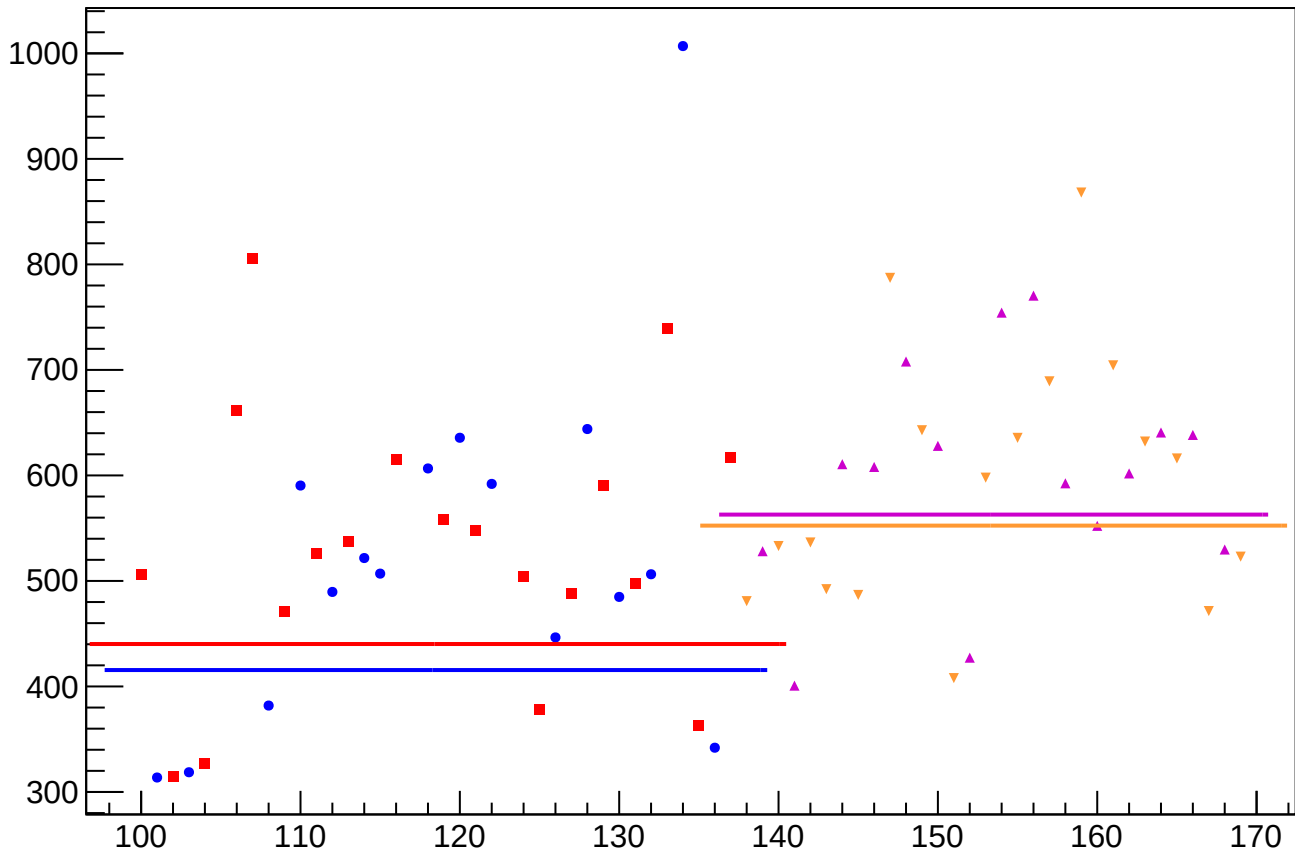
All: 232.969 $\pm$ 0.027 χ^2/NDF : 4089140.1/66

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 136406.923 $\pm$ 0.169	χ^2 /NDF: 1577071044.7/15	Left: 128888.637 $\pm$ 0.119	χ^2 /NDF: 1663862680.3/3
Left Out: 129022.663 $\pm$ 0.162	χ^2 /NDF: 881651717.4/16	Right: 136088.335 $\pm$ 0.122	χ^2 /NDF: 2758689484.9/3
Right Out: 135738.412 $\pm$ 0.177	χ^2 /NDF: 1174123878.0/18	In: 132722.256 $\pm$ 0.122	χ^2 /NDF: 3352993054.6/30
Left In: 128731.503 $\pm$ 0.175	χ^2 /NDF: 780724493.4/14	Out: 132090.654 $\pm$ 0.119	χ^2 /NDF: 2840625362.7/3
		All: 132400.838 $\pm$ 0.085	χ^2 /NDF: 620735787.0/10

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 415.547 $\pm$ 0.119 χ^2 /NDF: 1031600.7/15

Left Out: 552.433 $\pm$ 0.115 χ^2 /NDF: 854643.2/16

Right Out: 440.218 $\pm$ 0.125 χ^2 /NDF: 910790.1/18

Left In: 562.873 $\pm$ 0.124 χ^2 /NDF: 720043.6/14

Left: 557.239 $\pm$ 0.084 χ^2 /NDF: 1578508.9/31

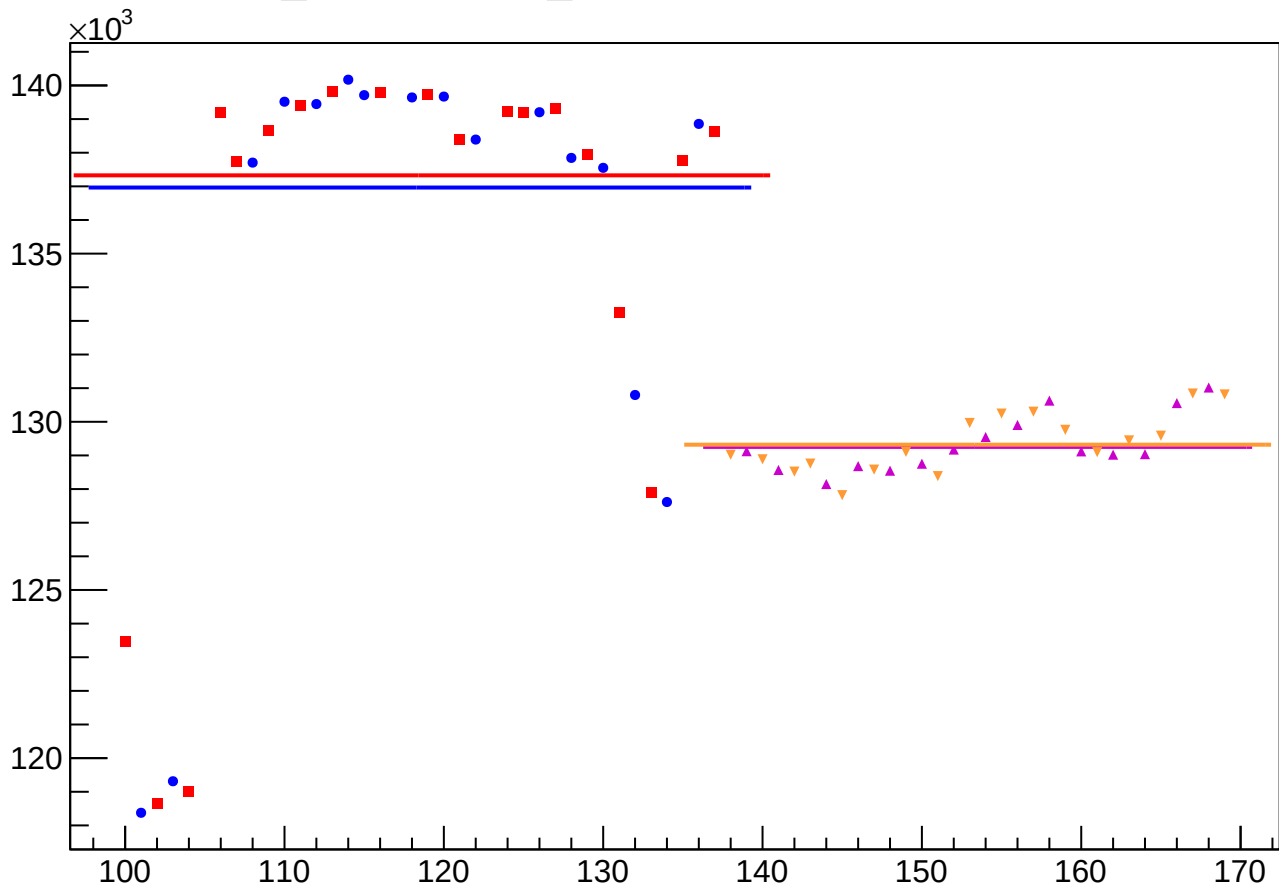
Right: 427.304 $\pm$ 0.086 χ^2 /NDF: 1962803.8/34

In: 486.273 $\pm$ 0.086 χ^2 /NDF: 2484960.2/30

Out: 501.169 $\pm$ 0.084 χ^2 /NDF: 2203694.9/35

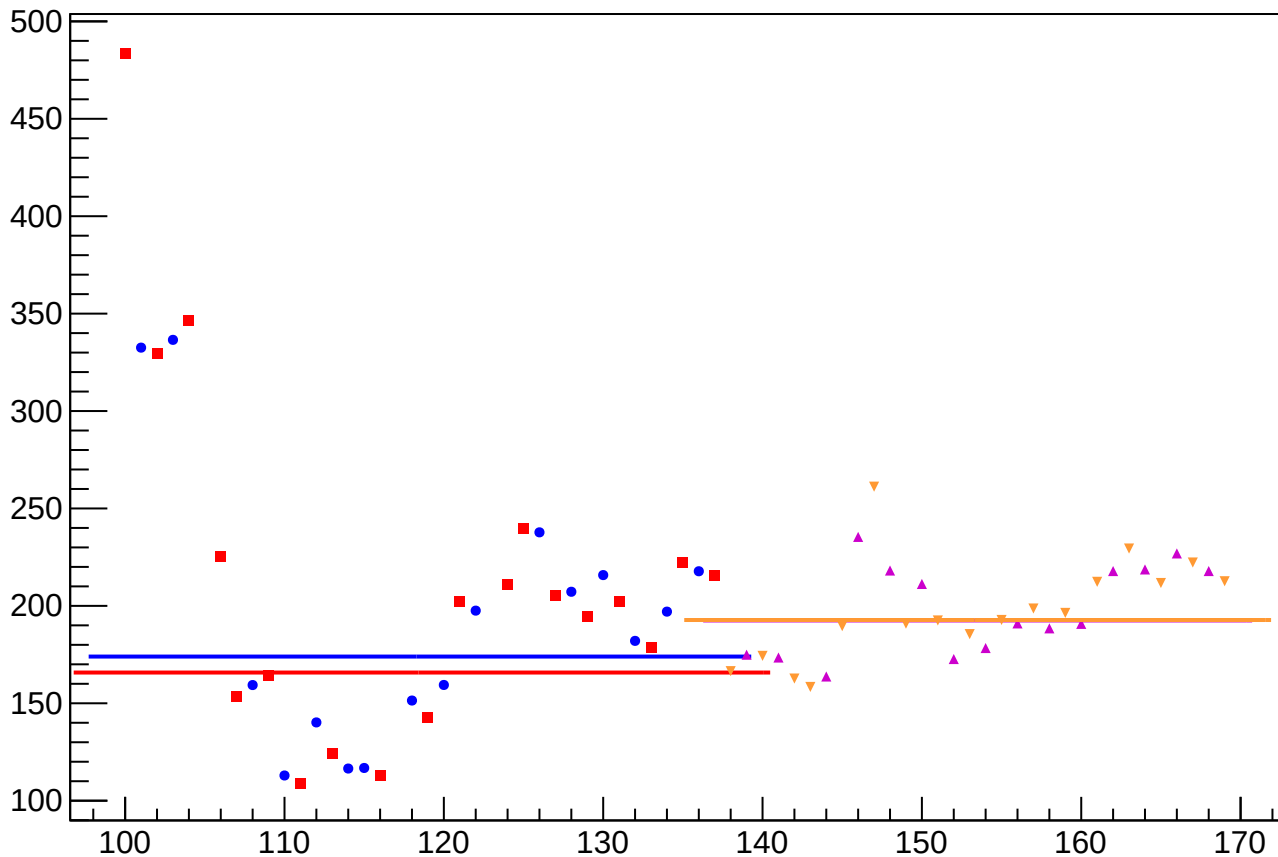
All: 493.853 $\pm$ 0.060 χ^2 /NDF: 4703940.8/66

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 136964.958 $\pm$ 0.070	χ^2 /NDF: 5807770301.4/15	Left: 129287.474 $\pm$ 0.039	χ^2 /NDF: 445099298.3/31
Left Out: 129319.177 $\pm$ 0.054	χ^2 /NDF: 236152182.7/16	Right: 137157.181 $\pm$ 0.048	χ^2 /NDF: 11559848727.7/16
Right Out: 137327.469 $\pm$ 0.066	χ^2 /NDF: 5737745895.7/18	In: 132249.723 $\pm$ 0.043	χ^2 /NDF: 13494983869.6/31
Left In: 129253.333 $\pm$ 0.056	χ^2 /NDF: 208219523.0/14	Out: 132520.898 $\pm$ 0.041	χ^2 /NDF: 14910919029.0/14
		All: 132391.586 $\pm$ 0.030	χ^2 /NDF: 284262668.0/14

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 173.982 $\pm$ 0.049 χ^2 /NDF: 1188493.1/15

Left Out: 192.742 $\pm$ 0.038 χ^2 /NDF: 384992.8/16

Right Out: 165.780 $\pm$ 0.046 χ^2 /NDF: 1433162.4/18

Left In: 192.506 $\pm$ 0.039 χ^2 /NDF: 308762.2/14

Left: 192.628 $\pm$ 0.027 χ^2 /NDF: 693773.7/31

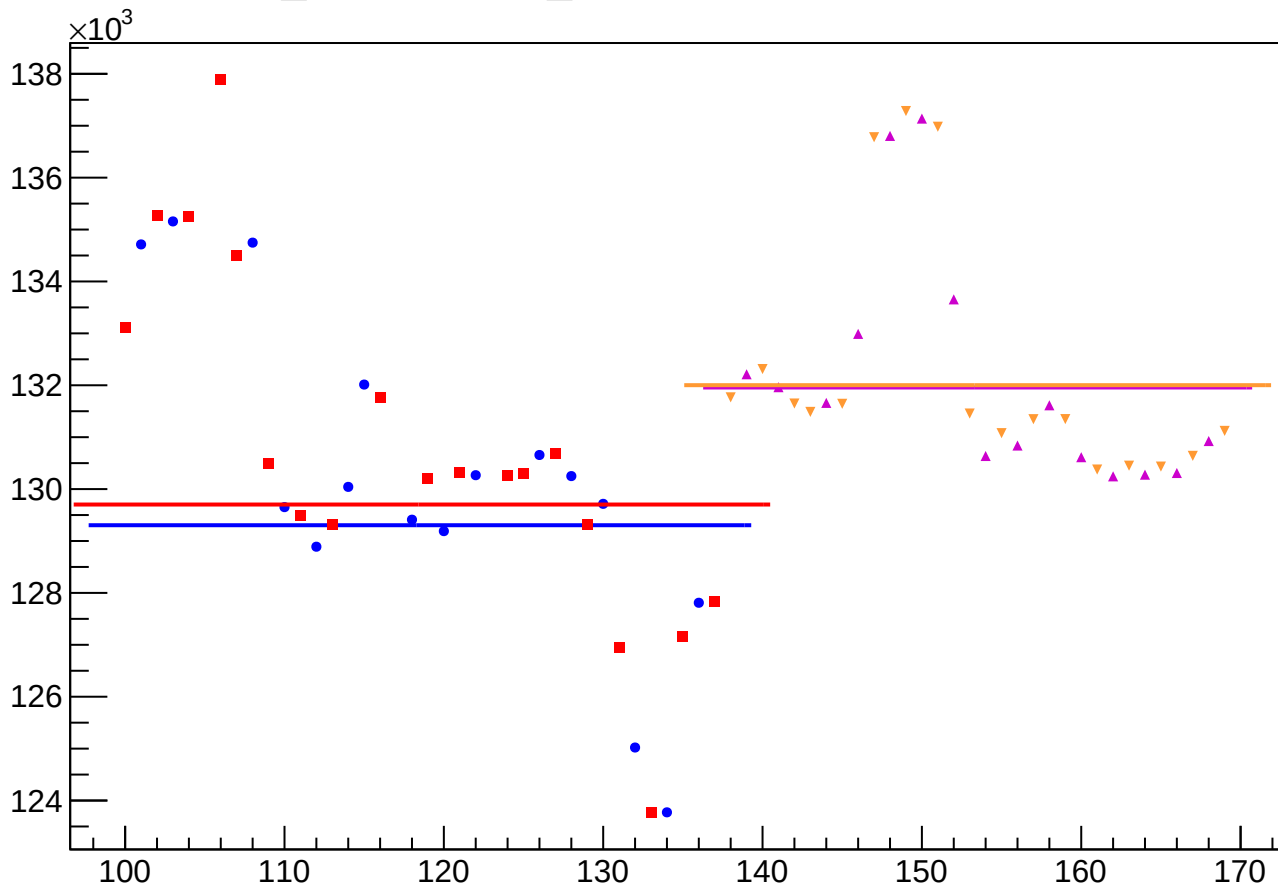
Right: 169.633 $\pm$ 0.034 χ^2 /NDF: 2636327.1/34

In: 185.308 $\pm$ 0.031 χ^2 /NDF: 1583566.7/30

Out: 181.963 $\pm$ 0.029 χ^2 /NDF: 2020751.6/35

All: 183.558 $\pm$ 0.021 χ^2 /NDF: 3610517.8/66

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 129303.894 $\pm$ 0.066

χ^2 /NDF: 1650235360.7/15

Left: 131980.289 $\pm$ 0.039

χ^2 /NDF: 2357481226.2/3

Left Out: 132001.858 $\pm$ 0.054

χ^2 /NDF: 1310606737.4/16

Right: 129517.750 $\pm$ 0.045

χ^2 /NDF: 3447412906.7/1

Right Out: 129702.568 $\pm$ 0.062

χ^2 /NDF: 1777723481.2/18

In: 130856.407 $\pm$ 0.043

χ^2 /NDF: 3636671290.4/30

Out: 131006.347 $\pm$ 0.040

χ^2 /NDF: 3879821729.9/3

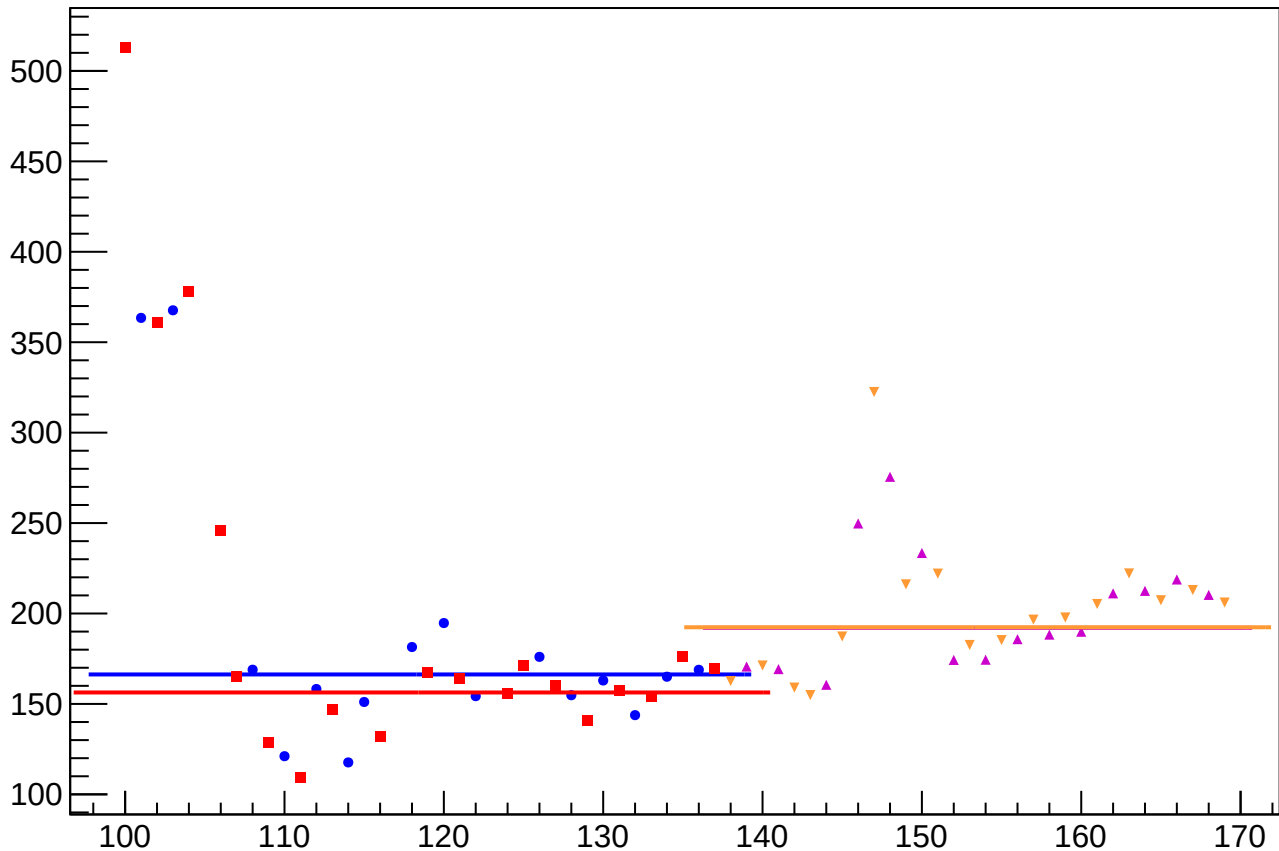
Left In: 131957.114 $\pm$ 0.056

χ^2 /NDF: 1046540759.3/14

All: 130935.243 $\pm$ 0.029

χ^2 /NDF: 752299447.0/1

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 166.302 $\pm$ 0.047 χ^2 /NDF: 937947.6/15

Left Out: 192.385 $\pm$ 0.038 χ^2 /NDF: 593025.4/16

Right Out: 156.334 $\pm$ 0.044 χ^2 /NDF: 1172834.9/18

Left In: 192.079 $\pm$ 0.039 χ^2 /NDF: 513857.8/14

Left: 192.237 $\pm$ 0.027 χ^2 /NDF: 1106914.4/31

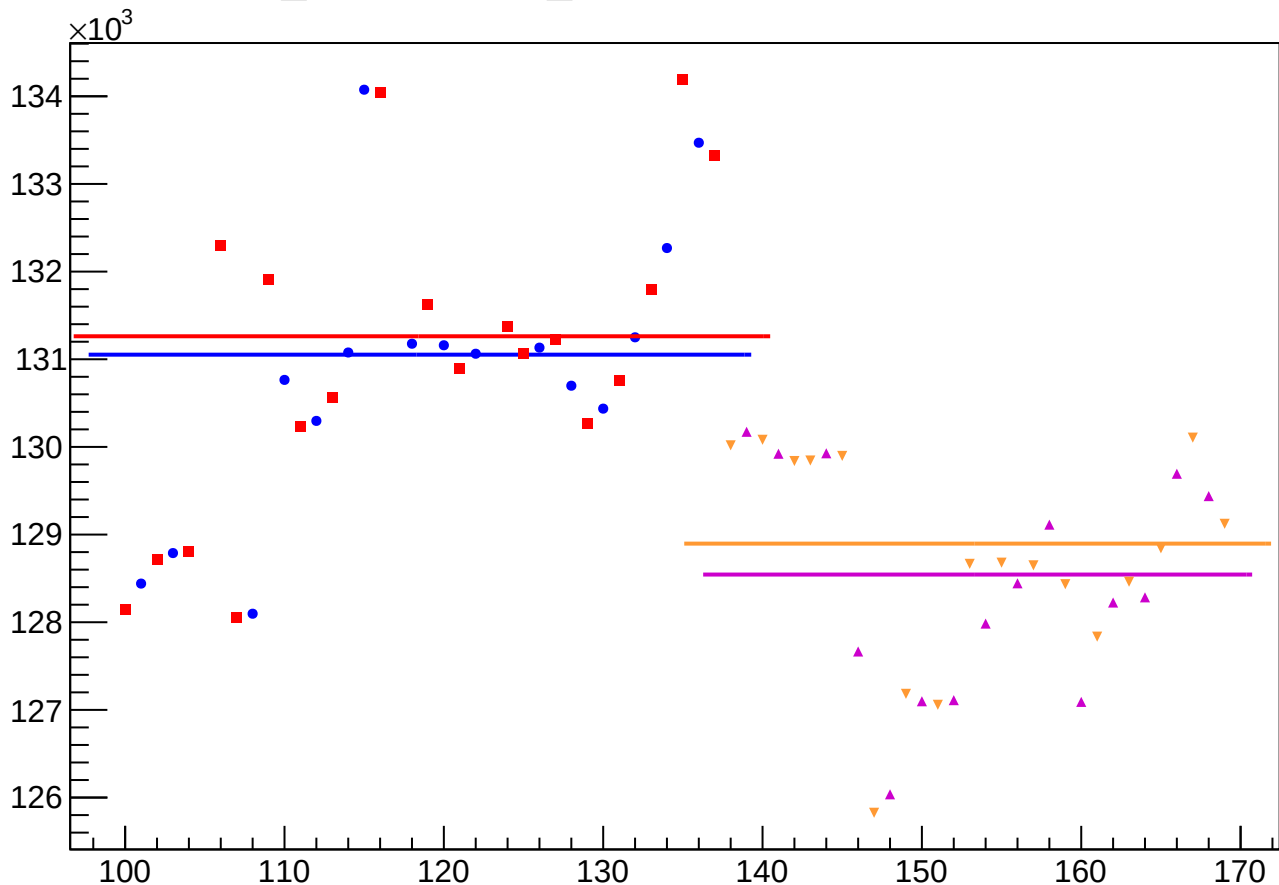
Right: 160.955 $\pm$ 0.032 χ^2 /NDF: 2135107.2/34

In: 181.385 $\pm$ 0.030 χ^2 /NDF: 1629231.1/30

Out: 176.776 $\pm$ 0.029 χ^2 /NDF: 2155011.2/35

All: 178.962 $\pm$ 0.021 χ^2 /NDF: 3796530.0/66

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 131052.422 $\pm$ 0.061 χ^2 /NDF: 523713045.8/15

Left Out: 128896.829 $\pm$ 0.052 χ^2 /NDF: 463202604.7/16

Right Out: 131262.232 $\pm$ 0.057 χ^2 /NDF: 604278186.1/18

Left In: 128543.982 $\pm$ 0.054 χ^2 /NDF: 535917589.2/14

Left: 128727.238 $\pm$ 0.037 χ^2 /NDF: 1021517324.8/3

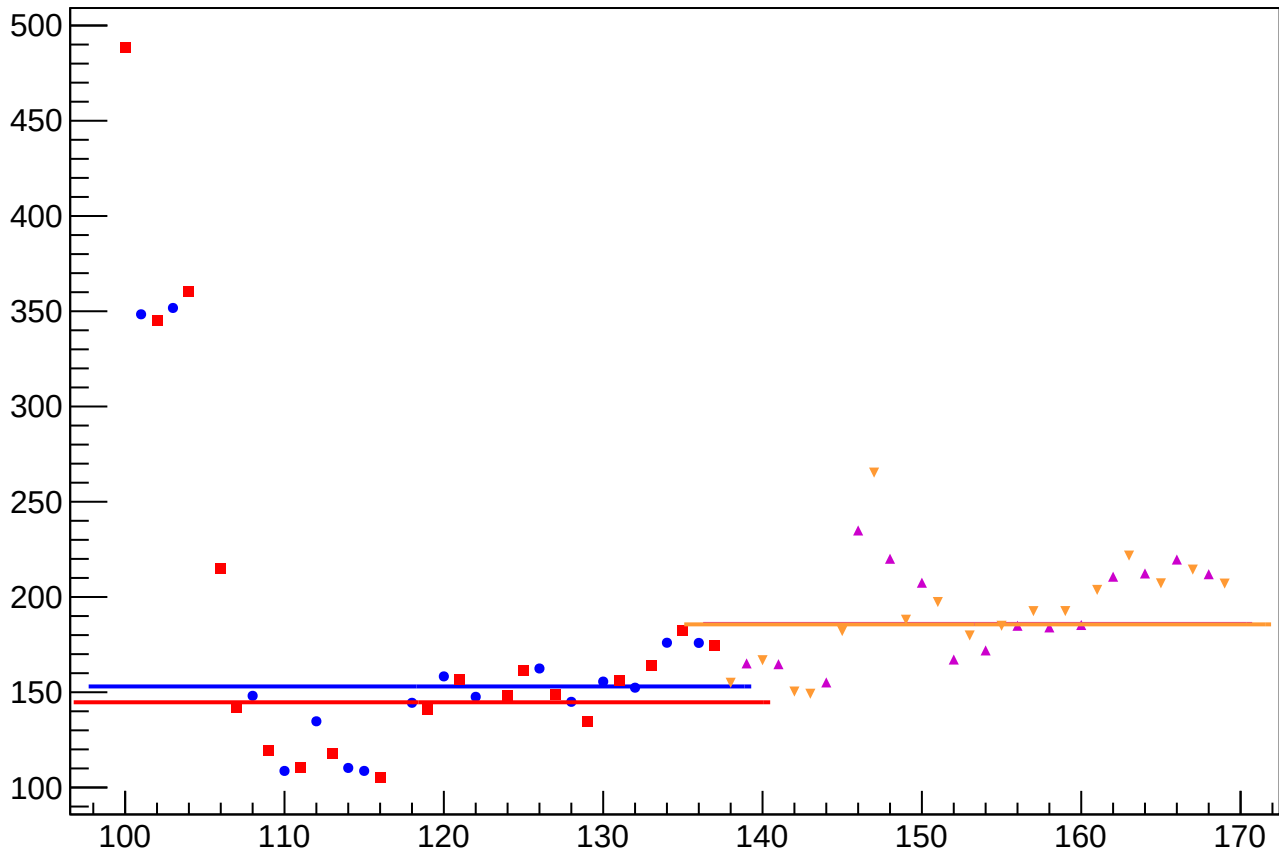
Right: 131164.431 $\pm$ 0.041 χ^2 /NDF: 1134382049.3/16

In: 129647.218 $\pm$ 0.040 χ^2 /NDF: 2018190552.0/30

Out: 129971.148 $\pm$ 0.038 χ^2 /NDF: 2018617392.2/30

All: 129817.556 $\pm$ 0.028 χ^2 /NDF: 407092515.0/60

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 153.043 $\pm$ 0.043 χ^2 /NDF: 1059470.3/15

Left Out: 185.632 $\pm$ 0.037 χ^2 /NDF: 497784.8/16

Right Out: 144.731 $\pm$ 0.040 χ^2 /NDF: 1263423.6/18

Left In: 185.860 $\pm$ 0.038 χ^2 /NDF: 385007.3/14

Left: 185.742 $\pm$ 0.026 χ^2 /NDF: 882810.8/31

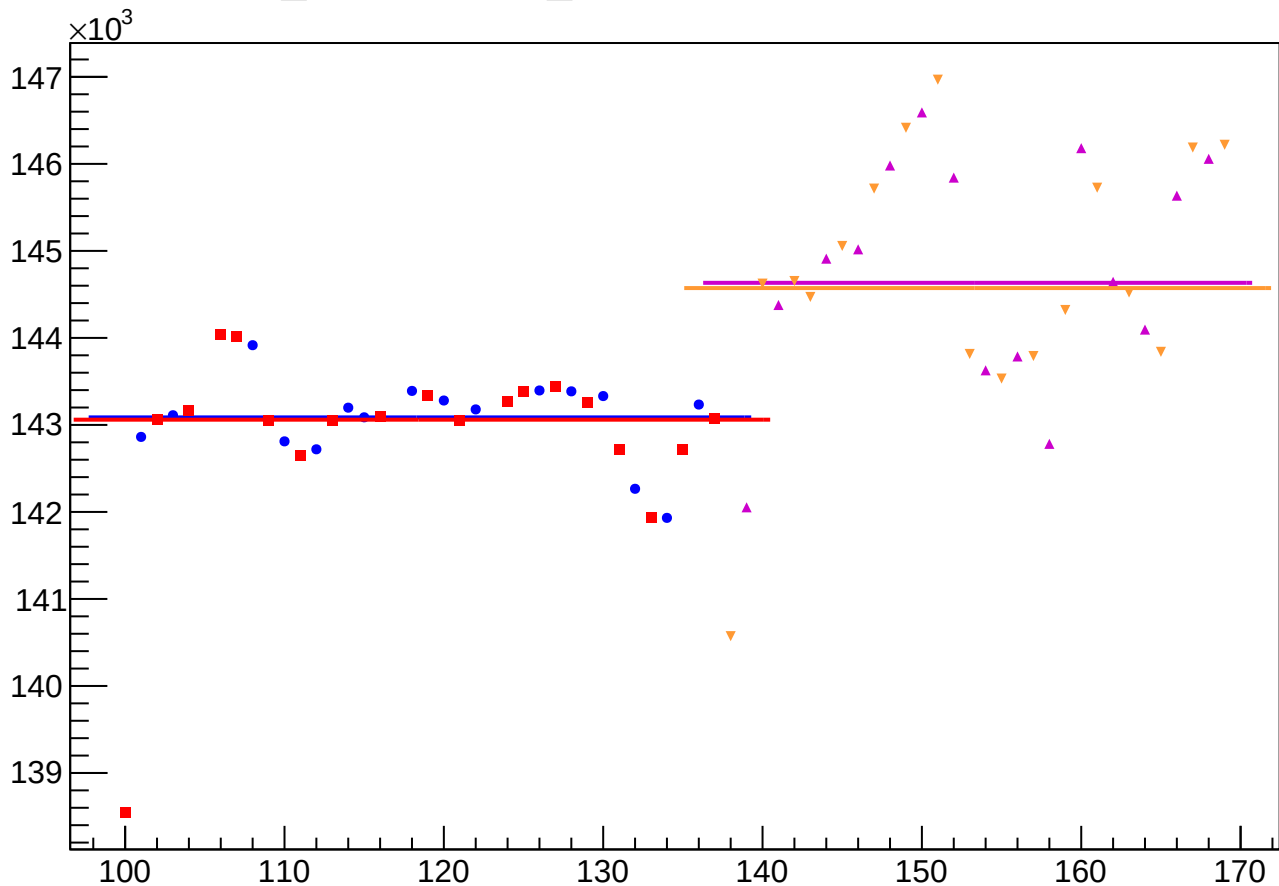
Right: 148.605 $\pm$ 0.029 χ^2 /NDF: 2342954.4/34

In: 171.427 $\pm$ 0.028 χ^2 /NDF: 1772618.2/30

Out: 167.056 $\pm$ 0.027 χ^2 /NDF: 2329993.4/35

All: 169.128 $\pm$ 0.020 χ^2 /NDF: 4115036.4/66

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 143086.477 $\pm$ 0.065

χ^2 /NDF: 46726277.8/15

Left Out: 144572.726 $\pm$ 0.060

χ^2 /NDF: 682897674.0/16

Right Out: 143060.268 $\pm$ 0.061

χ^2 /NDF: 51715744.7/18

Left In: 144633.069 $\pm$ 0.062

χ^2 /NDF: 473290720.5/14

Left: 144601.960 $\pm$ 0.043

χ^2 /NDF: 1156683458.5/3

Right: 143072.451 $\pm$ 0.044

χ^2 /NDF: 98528807.3/34

In: 143902.543 $\pm$ 0.045

χ^2 /NDF: 817979492.2/30

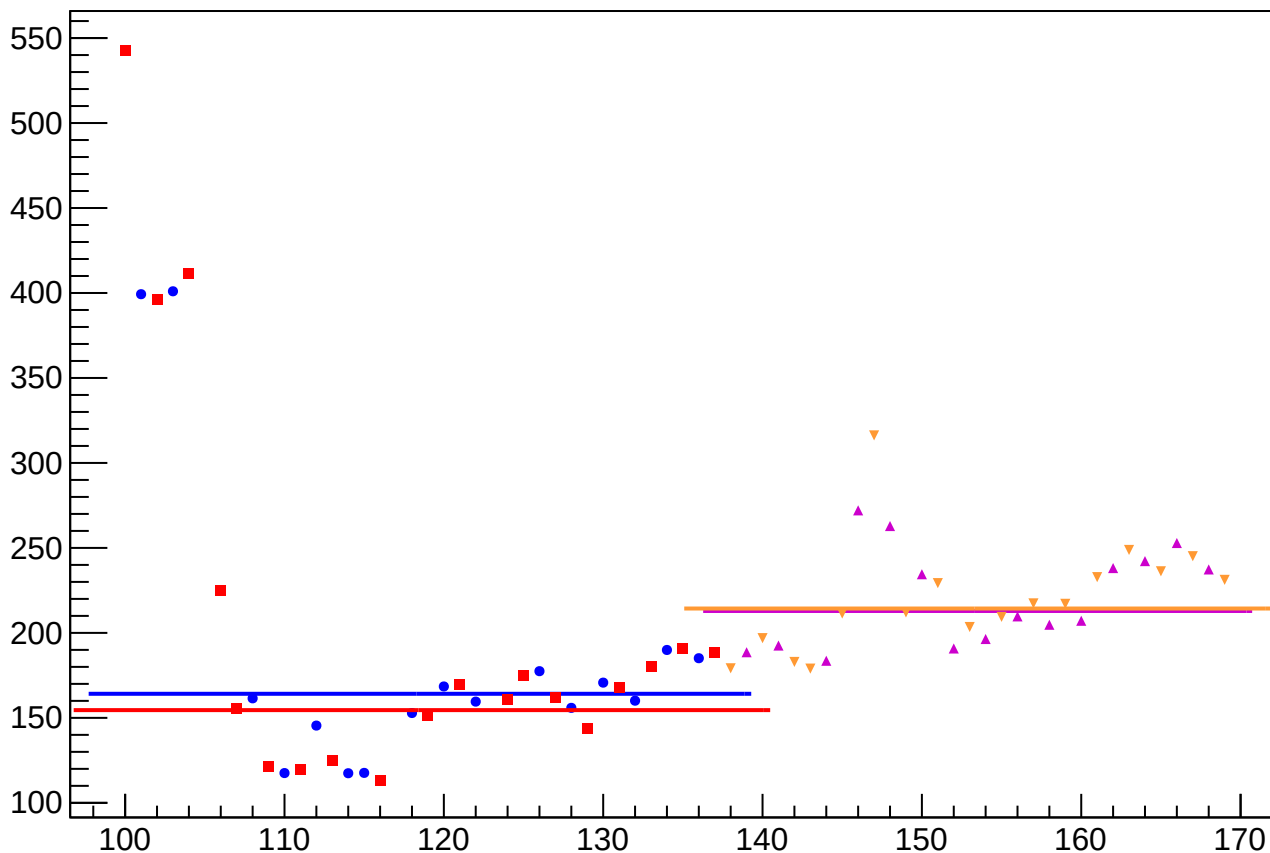
Out: 143828.584 $\pm$ 0.043

χ^2 /NDF: 1050466154.4/3

All: 143863.714 $\pm$ 0.031

χ^2 /NDF: 186988095

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 164.167+/-0.046 χ^2/NDF : 1129764.4/15

Left Out: 214.338+/-0.042 χ^2/NDF : 426164.3/16

Right Out: 154.558+/-0.043 χ^2/NDF : 1366830.5/18

Left In: 212.898+/-0.044 χ^2/NDF : 368523.5/14

Left: 213.641+/-0.030 χ^2/NDF : 795251.3/31

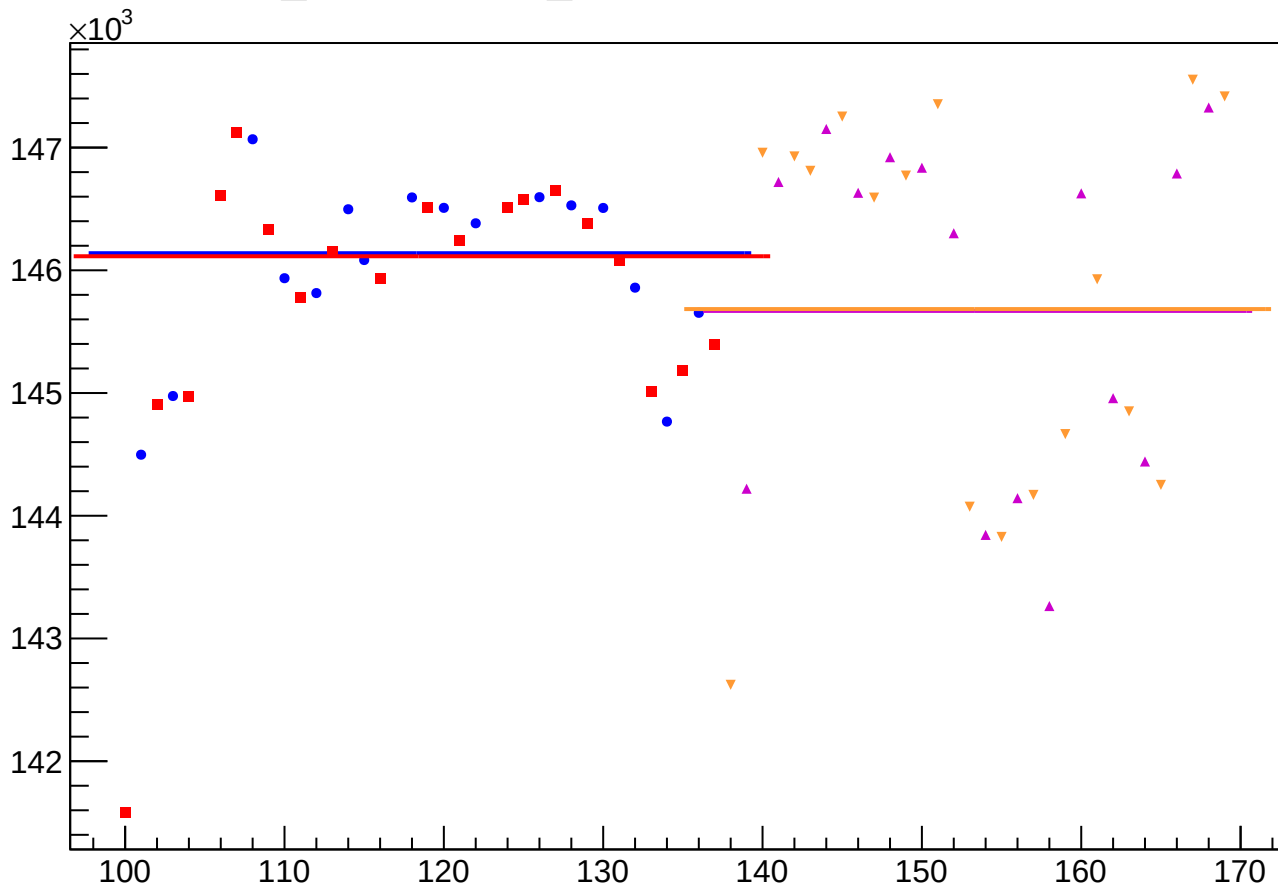
Right: 159.024+/-0.031 χ^2/NDF : 2519924.8/34

In: 189.880+/-0.032 χ^2/NDF : 2089939.7/30

Out: 184.926+/-0.030 χ^2/NDF : 2779865.6/35

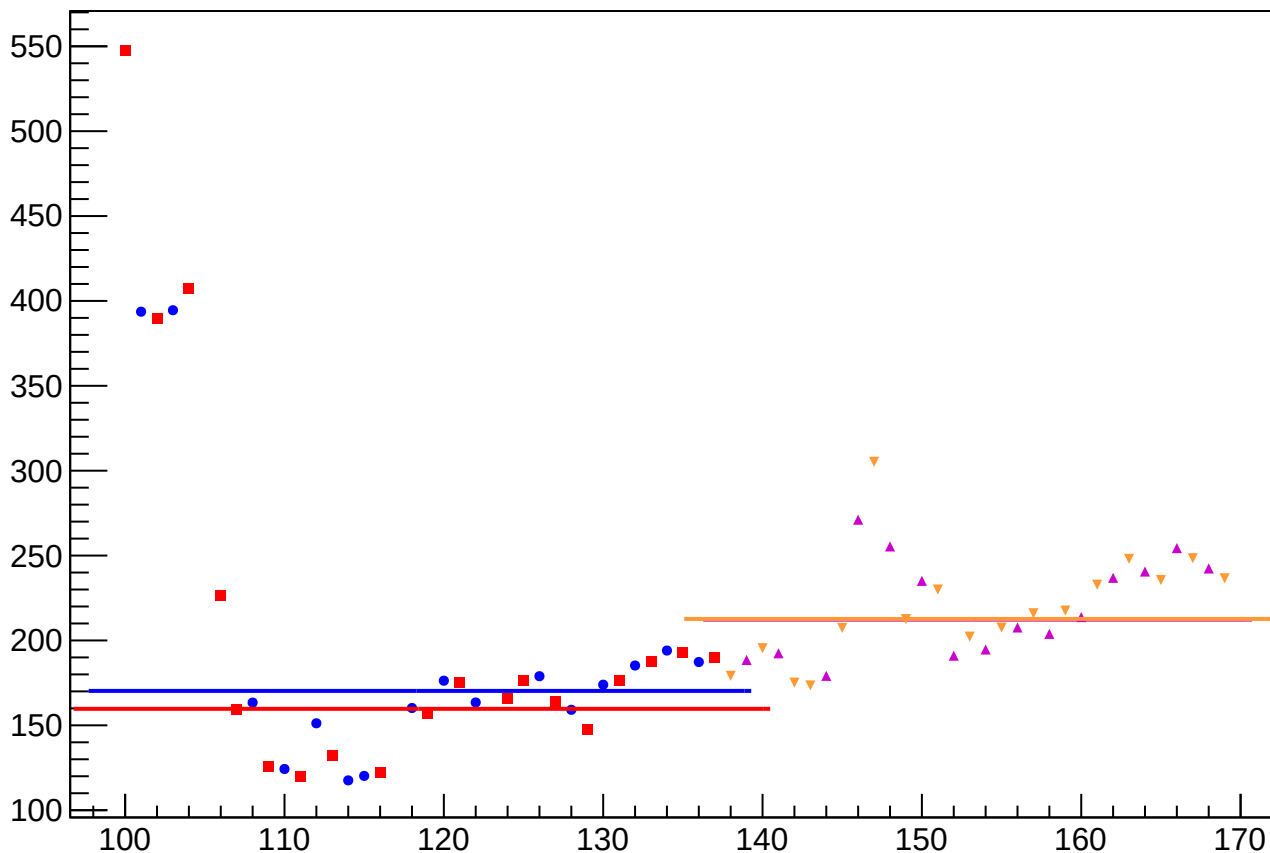
All: 187.279+/-0.022 χ^2/NDF : 4882688.0/66

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: 146139.237 $\pm$ 0.067	χ^2 /NDF: 71721843.8/15	Left: 145676.911 $\pm$ 0.043	χ^2 /NDF: 1243722210.6/3
Left Out: 145684.062 $\pm$ 0.059	χ^2 /NDF: 717644927.5/16	Right: 146125.912 $\pm$ 0.046	χ^2 /NDF: 144896615.7/3
Right Out: 146114.458 $\pm$ 0.062	χ^2 /NDF: 73102068.4/18	In: 145882.529 $\pm$ 0.045	χ^2 /NDF: 624335923.2/30
Left In: 145669.216 $\pm$ 0.061	χ^2 /NDF: 526047012.8/14	Out: 145887.748 $\pm$ 0.043	χ^2 /NDF: 815742386.0/35
		All: 145885.282 $\pm$ 0.031	χ^2 /NDF: 144008527

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 170.279+/-0.048 χ^2/NDF : 1057631.0/15

Left Out: 212.678+/-0.042 χ^2/NDF : 458942.1/16

Right Out: 159.724+/-0.044 χ^2/NDF : 1291290.8/18

Left In: 212.270+/-0.043 χ^2/NDF : 379414.9/14

Left: 212.481+/-0.030 χ^2/NDF : 838402.6/31

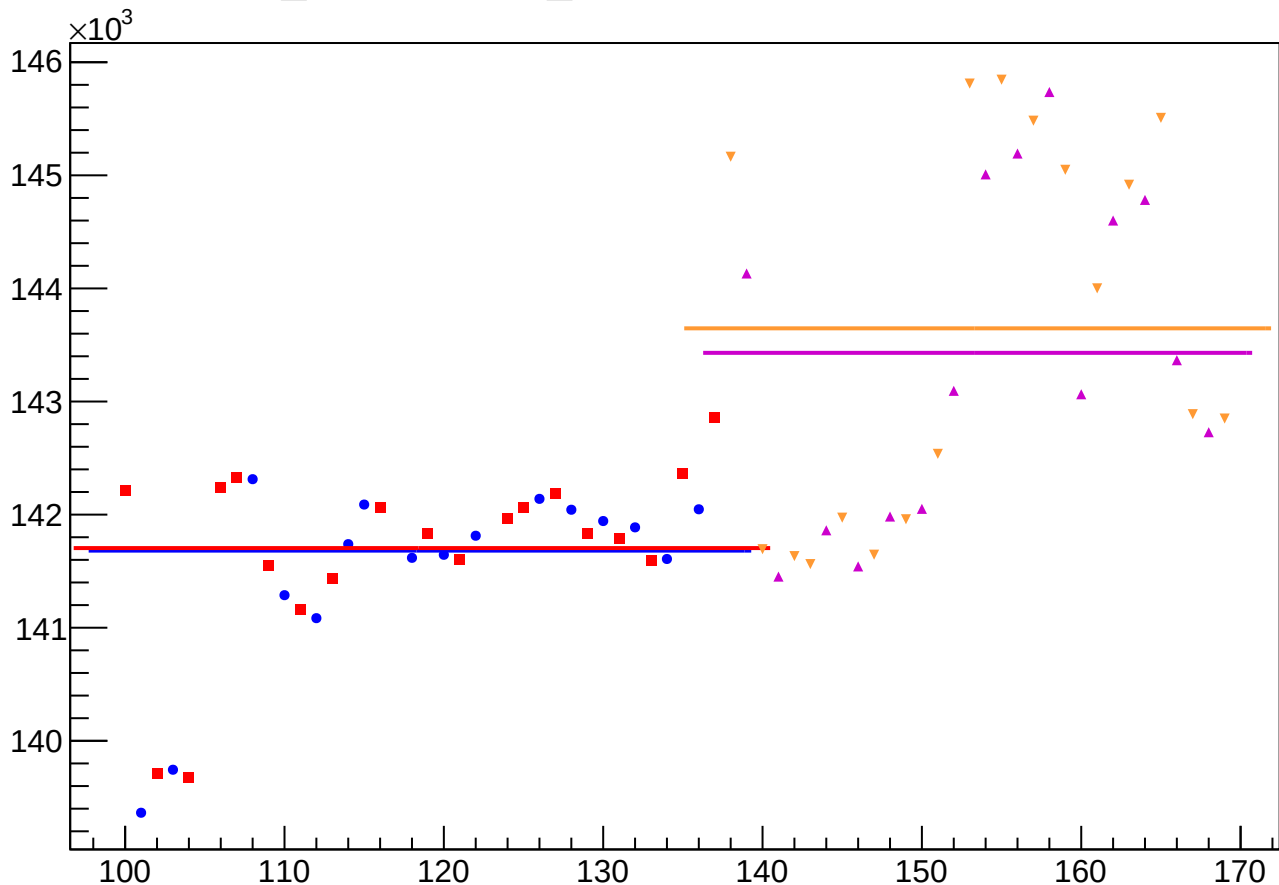
Right: 164.603+/-0.032 χ^2/NDF : 2375303.6/34

In: 193.213+/-0.032 χ^2/NDF : 1861136.2/30

Out: 187.617+/-0.030 χ^2/NDF : 2506974.9/35

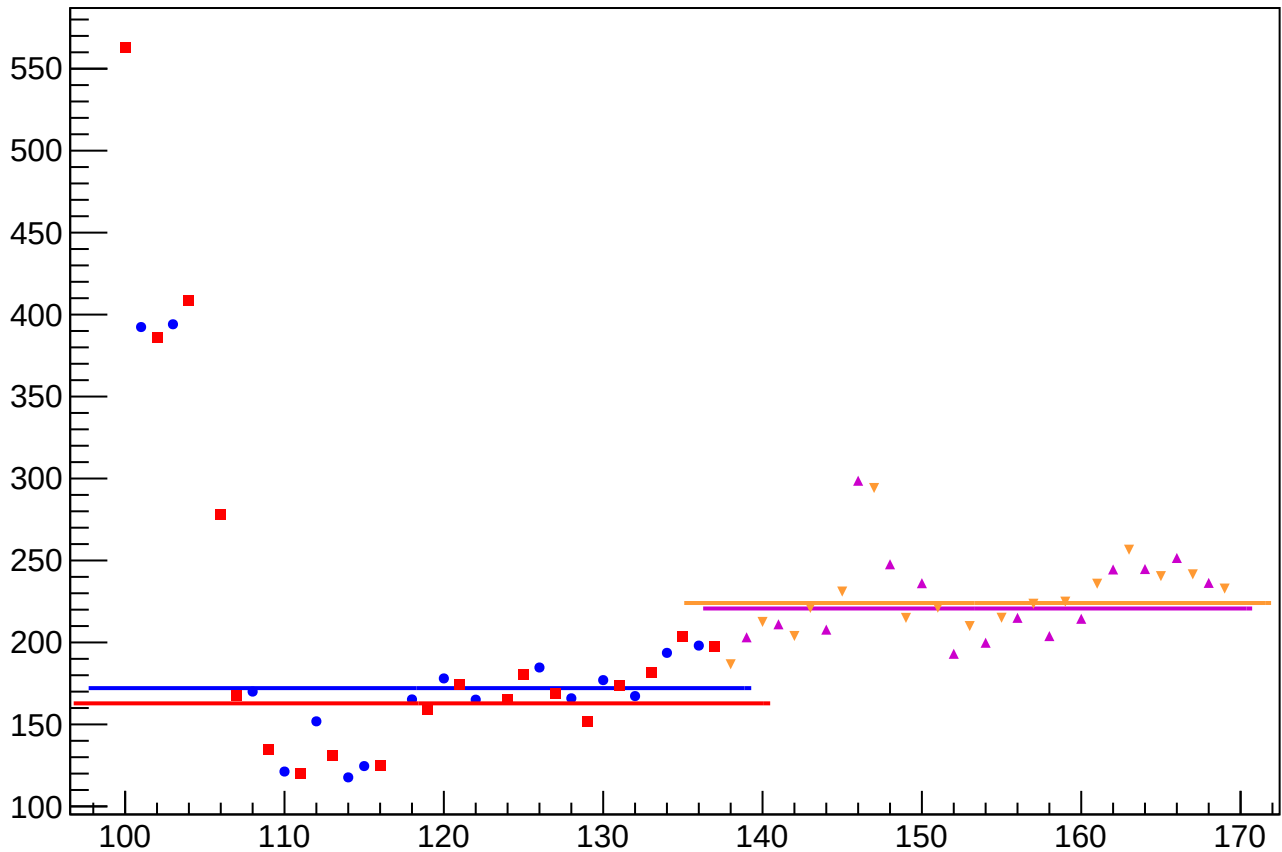
All: 190.262+/-0.022 χ^2/NDF : 4384132.3/66

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: 141681.846 $\pm$ 0.068	χ^2 /NDF: 64292997.9/15	Left: 143541.702 $\pm$ 0.044	χ^2 /NDF: 1211999210.6/3
Left Out: 143647.063 $\pm$ 0.062	χ^2 /NDF: 711566317.7/16	Right: 141693.772 $\pm$ 0.047	χ^2 /NDF: 129876966.3/3
Right Out: 141704.185 $\pm$ 0.064	χ^2 /NDF: 65526811.0/18	In: 142615.485 $\pm$ 0.047	χ^2 /NDF: 909077394.0/30
Left In: 143430.439 $\pm$ 0.064	χ^2 /NDF: 494508505.6/14	Out: 142702.252 $\pm$ 0.044	χ^2 /NDF: 1253579996.0/3
		All: 142660.887 $\pm$ 0.032	χ^2 /NDF: 216447092

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 172.139+/-0.048 χ^2/NDF : 1068587.8/15

Left Out: 224.065+/-0.044 χ^2/NDF : 229652.6/16

Right Out: 162.845+/-0.045 χ^2/NDF : 1305855.8/18

Left In: 220.708+/-0.045 χ^2/NDF : 286158.9/14

Left: 222.432+/-0.031 χ^2/NDF : 518656.1/31

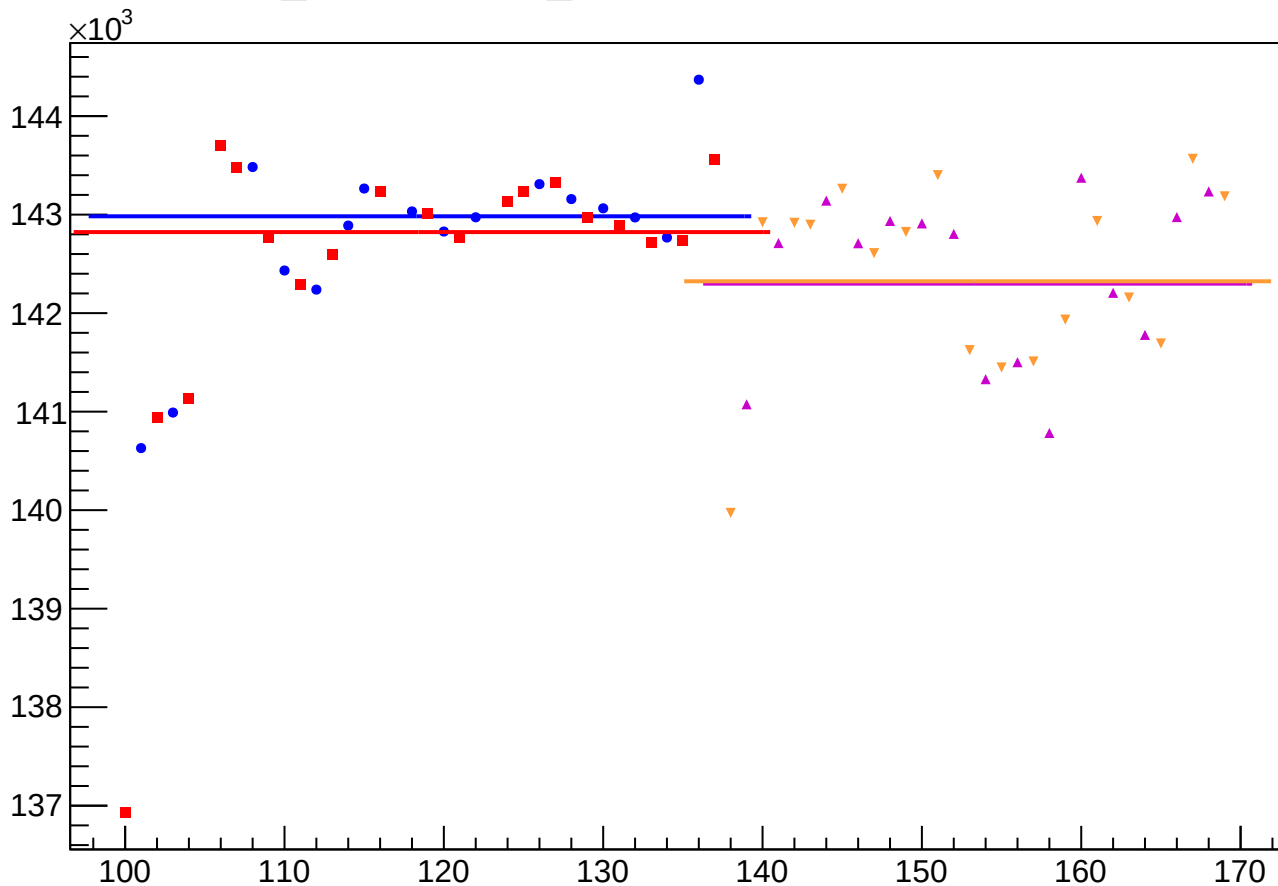
Right: 167.177+/-0.033 χ^2/NDF : 2394232.5/34

In: 198.072+/-0.033 χ^2/NDF : 1895238.1/30

Out: 194.294+/-0.031 χ^2/NDF : 2481697.0/35

All: 196.095+/-0.023 χ^2/NDF : 4383812.4/66

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 142983.006 ± 0.069 $\chi^2/\text{NDF}: 107696217.2/15$

Left Out: 142323.255 ± 0.058 $\chi^2/\text{NDF}: 286338401.4/16$

Right Out: 142822.727 ± 0.064 $\chi^2/\text{NDF}: 63581232.6/18$

Left In: 142299.350 ± 0.060 $\chi^2/\text{NDF}: 209914174.8/14$

Left: 142311.728 ± 0.042 $\chi^2/\text{NDF}: 496334670.9/31$

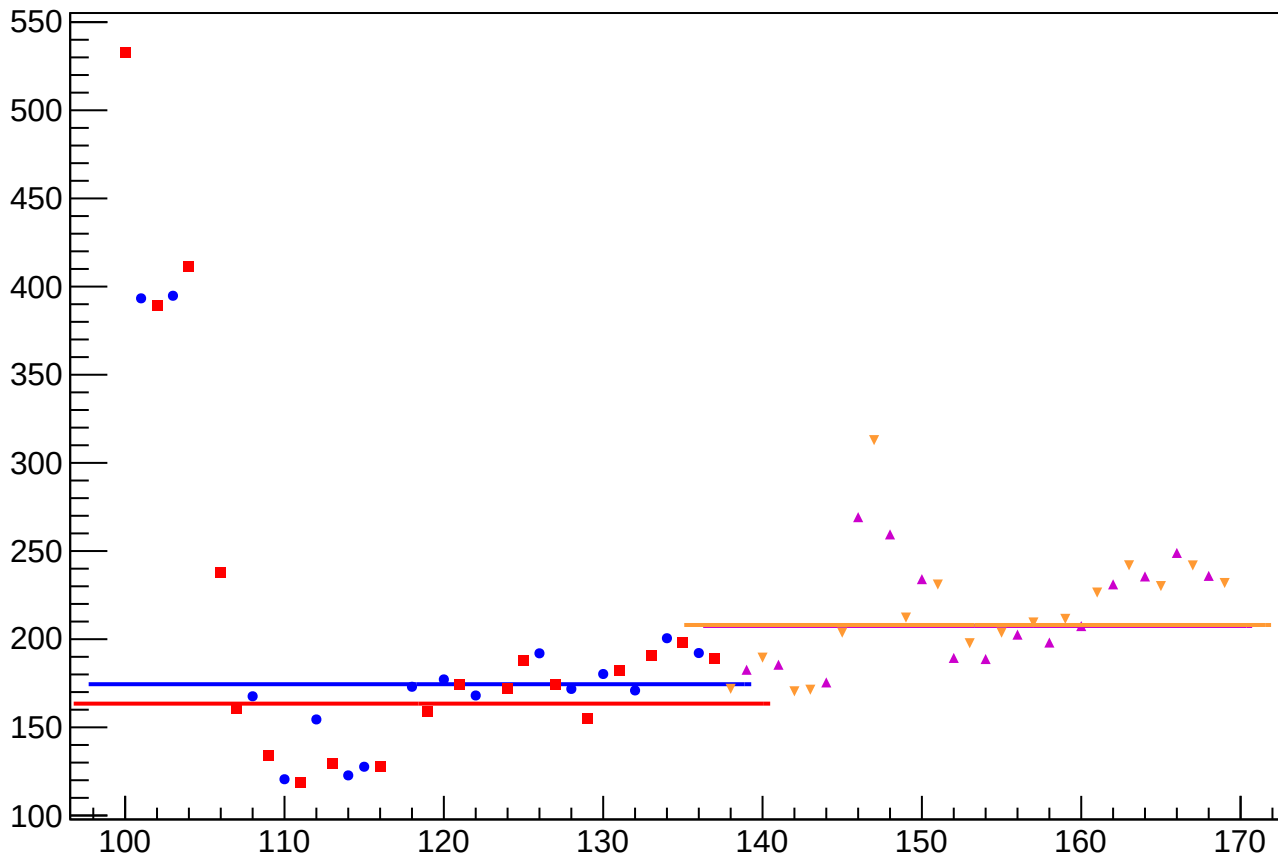
Right: 142896.762 ± 0.047 $\chi^2/\text{NDF}: 174171580.7/3$

In: 142593.373 ± 0.045 $\chi^2/\text{NDF}: 373380990.0/30$

Out: 142548.090 ± 0.043 $\chi^2/\text{NDF}: 383375641.1/35$

All: 142569.521 ± 0.031 $\chi^2/\text{NDF}: 757282451$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 174.467+/-0.049 χ^2/NDF : 1049126.7/15

Left Out: 208.057+/-0.041 χ^2/NDF : 506573.4/16

Right Out: 163.448+/-0.045 χ^2/NDF : 1282494.1/18

Left In: 207.486+/-0.042 χ^2/NDF : 420255.7/14

Left: 207.782+/-0.029 χ^2/NDF : 926922.7/31

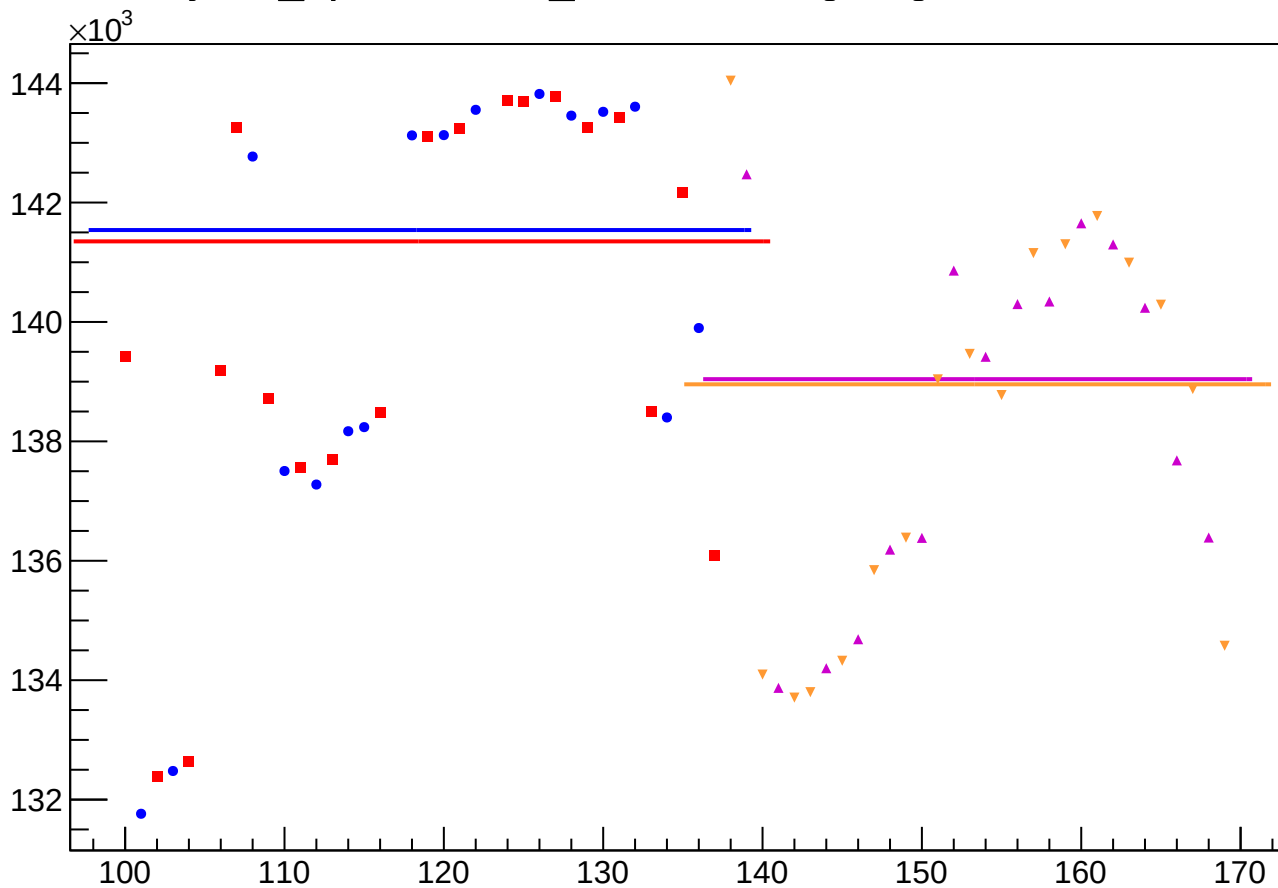
Right: 168.538+/-0.033 χ^2/NDF : 2358977.1/34

In: 193.286+/-0.032 χ^2/NDF : 1729577.8/30

Out: 187.977+/-0.030 χ^2/NDF : 2322801.3/35

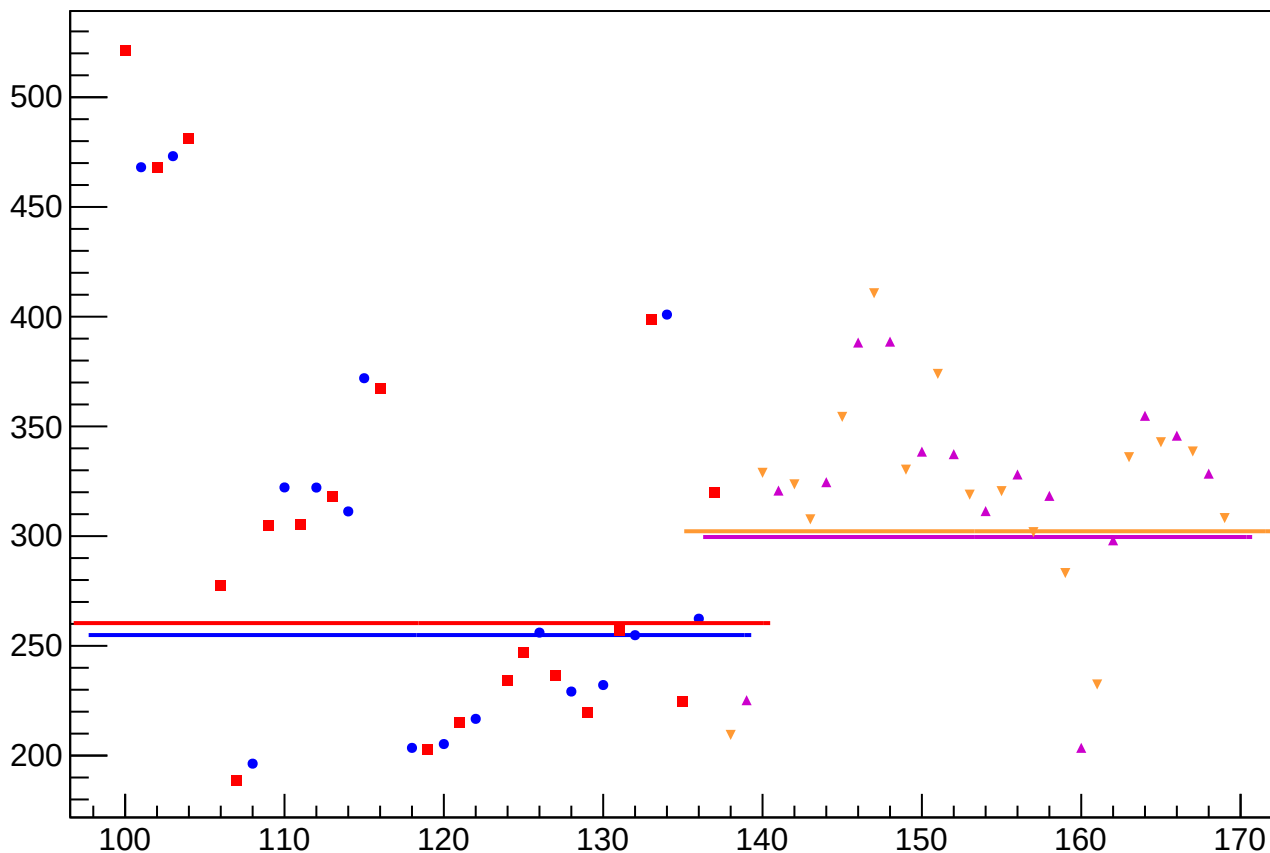
All: 190.489+/-0.022 χ^2/NDF : 4066833.5/66

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 141539.467 $\pm$ 0.101	χ^2/NDF : 947743743.7/15	Left: 138997.297 $\pm$ 0.061	χ^2/NDF : 2691202274.5/3
Left Out: 138955.552 $\pm$ 0.085	χ^2/NDF : 1587182303.3/16	Right: 141444.713 $\pm$ 0.071	χ^2/NDF : 1876176691.0/16
Right Out: 141349.499 $\pm$ 0.101	χ^2/NDF : 926661757.9/18	In: 140122.427 $\pm$ 0.066	χ^2/NDF : 2399475317.2/30
Left In: 139042.143 $\pm$ 0.088	χ^2/NDF : 1103518748.0/14	Out: 139946.422 $\pm$ 0.065	χ^2/NDF : 2842758010.5/3
		All: 140032.696 $\pm$ 0.046	χ^2/NDF : 524582577.0/14

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 254.919 ± 0.071 $\chi^2/\text{NDF}: 949952.1/15$

Left Out: 302.218 ± 0.060 $\chi^2/\text{NDF}: 745826.9/16$

Right Out: 260.369 ± 0.071 $\chi^2/\text{NDF}: 993300.6/18$

Left In: 299.595 ± 0.062 $\chi^2/\text{NDF}: 857194.0/14$

Left: 300.953 ± 0.043 $\chi^2/\text{NDF}: 1603940.4/31$

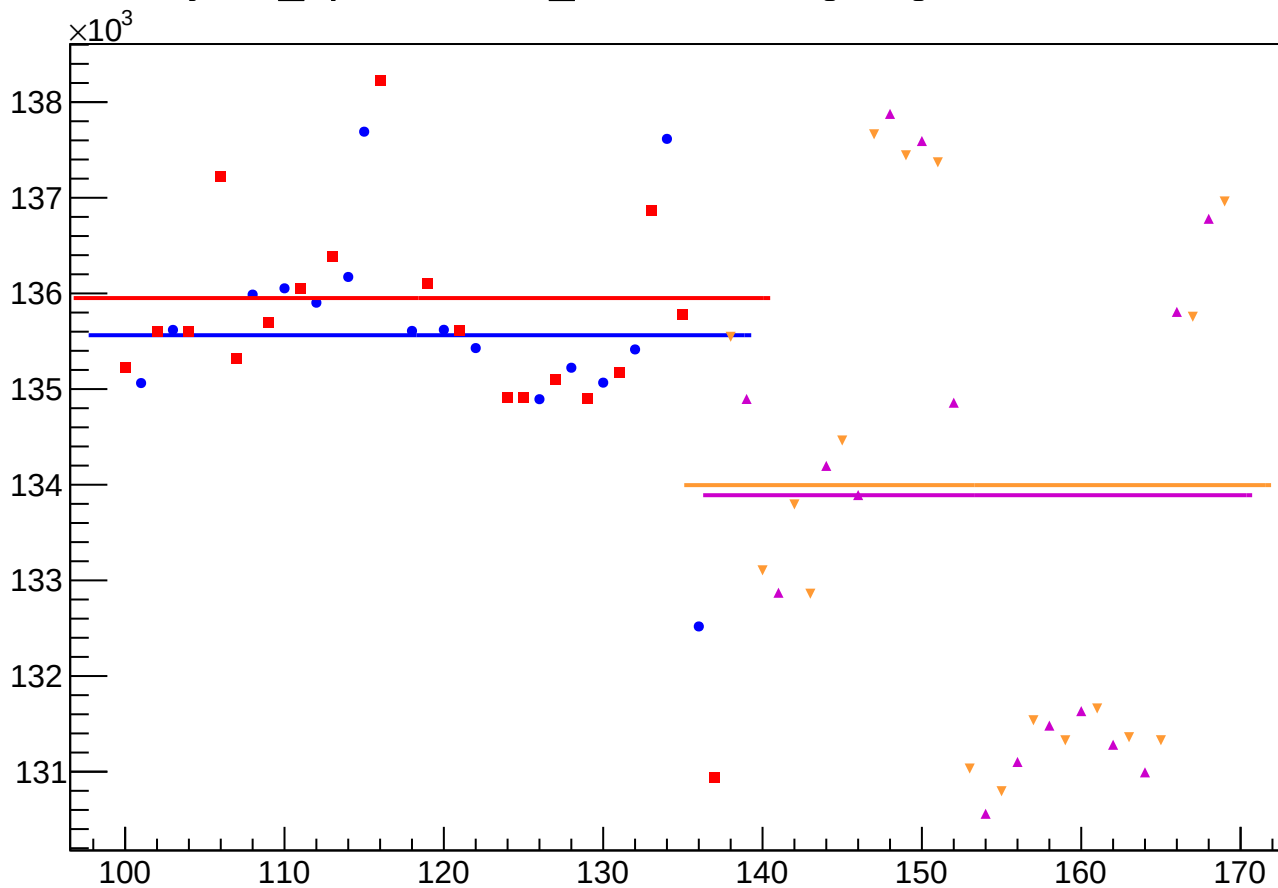
Right: 257.637 ± 0.050 $\chi^2/\text{NDF}: 1946167.7/34$

In: 280.269 ± 0.047 $\chi^2/\text{NDF}: 2030028.1/30$

Out: 284.896 ± 0.046 $\chi^2/\text{NDF}: 1940154.4/35$

All: 282.628 ± 0.033 $\chi^2/\text{NDF}: 3975147.3/66$

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 135563.062 ± 0.118 $\chi^2/\text{NDF}: 94169293.7/15$

Left Out: 133995.817 ± 0.074 $\chi^2/\text{NDF}: 857805867.2/16$

Right Out: 135951.486 ± 0.106 $\chi^2/\text{NDF}: 91577209.6/18$

Left In: 133890.461 ± 0.079 $\chi^2/\text{NDF}: 686894336.0/14$

Left: 133946.684 ± 0.054 $\chi^2/\text{NDF}: 1545651157.8/3$

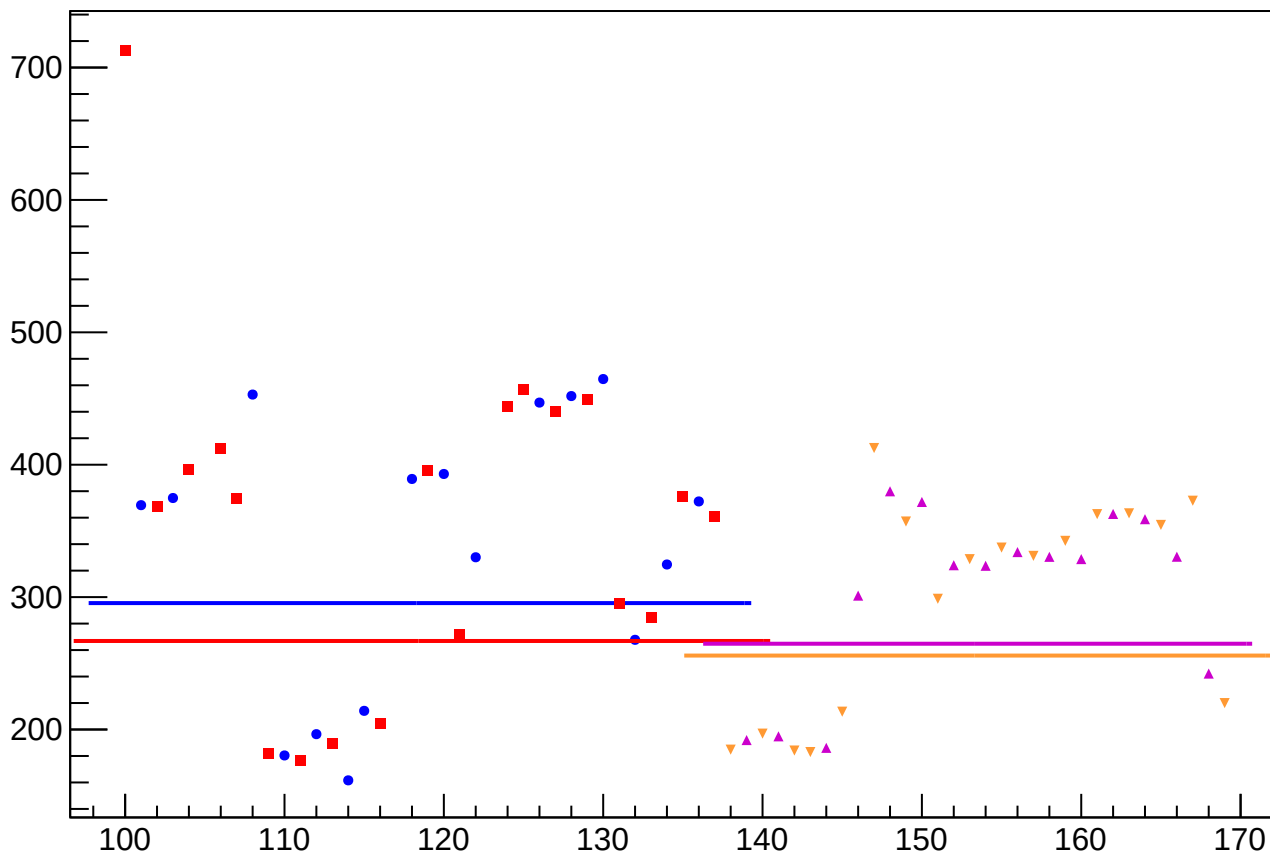
Right: 135777.958 ± 0.079 $\chi^2/\text{NDF}: 191705440.0/3$

In: 134405.292 ± 0.066 $\chi^2/\text{NDF}: 919308636.1/30$

Out: 134631.203 ± 0.061 $\chi^2/\text{NDF}: 1177656823.3/3$

All: 134527.252 ± 0.045 $\chi^2/\text{NDF}: 210335569$

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 295.481 ± 0.084 $\chi^2/\text{NDF}: 1442531.9/15$

Left Out: 255.847 ± 0.052 $\chi^2/\text{NDF}: 2149921.1/16$

Right Out: 266.864 ± 0.075 $\chi^2/\text{NDF}: 1678073.6/18$

Left In: 264.785 ± 0.056 $\chi^2/\text{NDF}: 1664597.8/14$

Left: 260.015 ± 0.038 $\chi^2/\text{NDF}: 3828206.1/31$

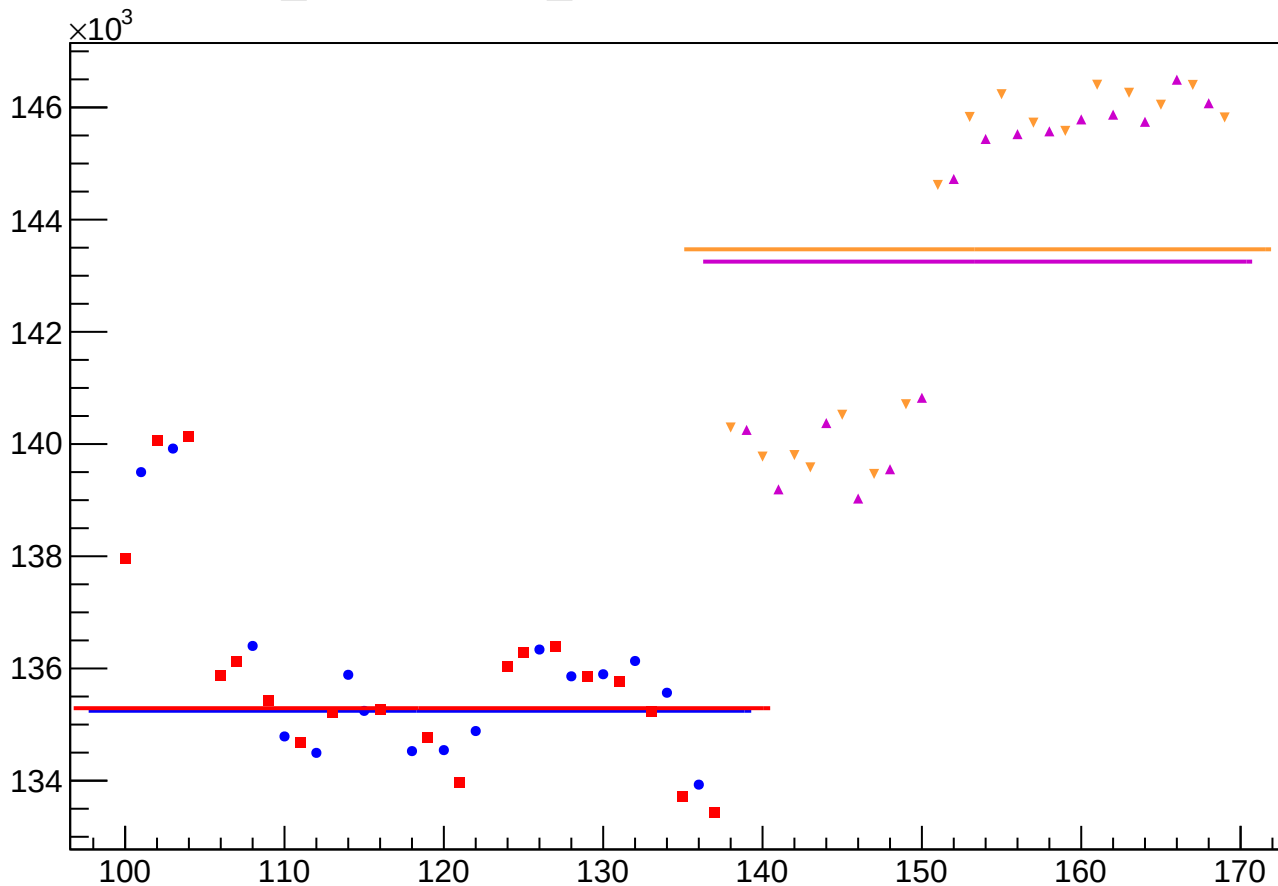
Right: 279.649 ± 0.056 $\chi^2/\text{NDF}: 3185297.4/34$

In: 274.233 ± 0.046 $\chi^2/\text{NDF}: 3200256.3/30$

Out: 259.426 ± 0.043 $\chi^2/\text{NDF}: 3842482.2/35$

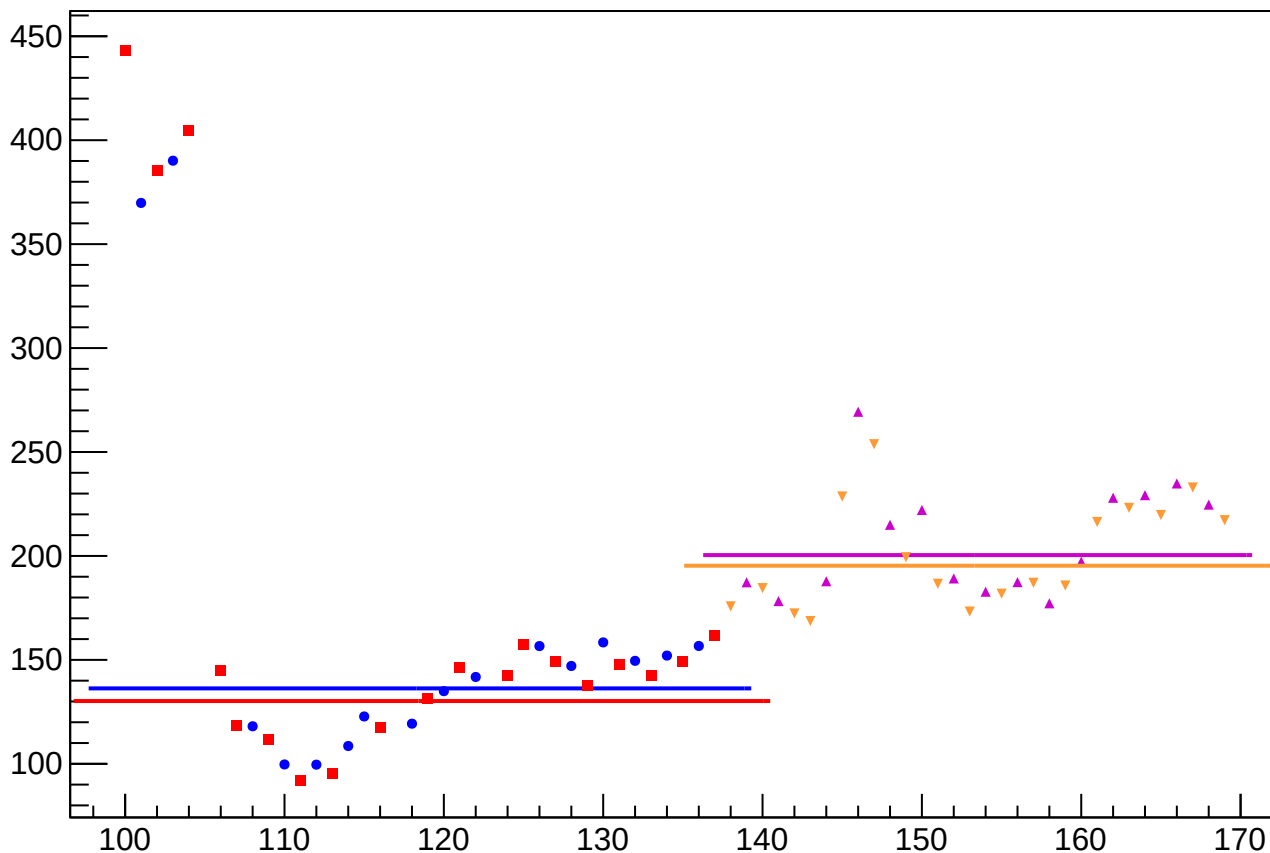
All: 266.240 ± 0.031 $\chi^2/\text{NDF}: 7097641.6/66$

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135246.269+/-0.055	χ^2/NDF : 388384719.1/15	Left: 143368.401+/-0.040	χ^2/NDF : 5270732802.2/3
Left Out: 143471.051+/-0.054	χ^2/NDF : 2843170933.4/16	Right: 135270.332+/-0.038	χ^2/NDF : 770541555.9/3
Right Out: 135291.851+/-0.052	χ^2/NDF : 381790556.0/18	In: 139018.939+/-0.040	χ^2/NDF : 12893907422.1/3
Left In: 143251.497+/-0.058	χ^2/NDF : 2419921788.8/14	Out: 139183.933+/-0.037	χ^2/NDF : 15111984007.3
		All: 139106.395+/-0.027	χ^2/NDF : 280150054

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 136.285 $\pm$ 0.039 χ^2 /NDF: 1384057.4/15

Left Out: 195.304 $\pm$ 0.038 χ^2 /NDF: 356610.2/16

Right Out: 130.206 $\pm$ 0.037 χ^2 /NDF: 1520840.8/18

Left In: 200.412 $\pm$ 0.041 χ^2 /NDF: 323625.0/14

Left: 197.693 $\pm$ 0.028 χ^2 /NDF: 688506.2/31

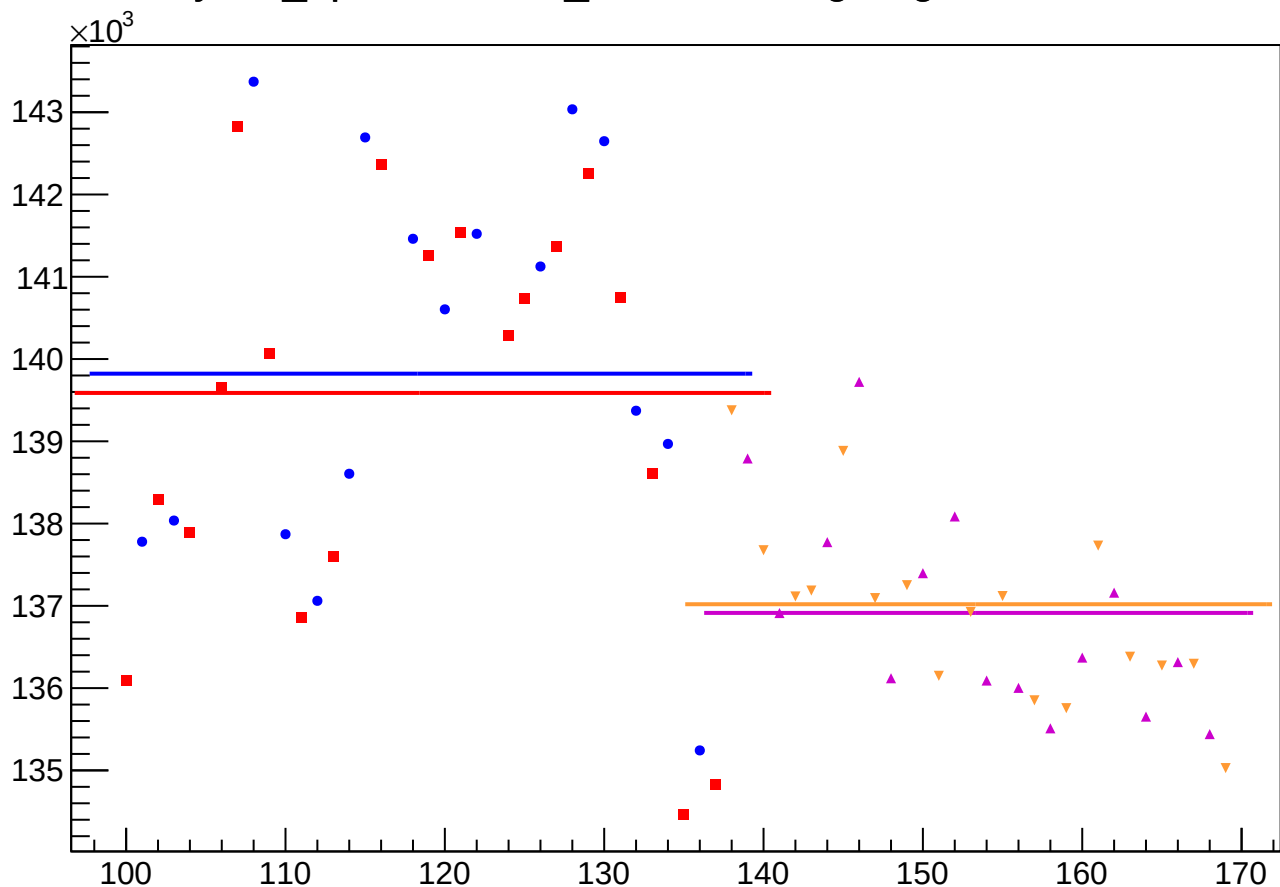
Right: 133.076 $\pm$ 0.027 χ^2 /NDF: 2917928.2/34

In: 166.507 $\pm$ 0.028 χ^2 /NDF: 3002092.7/30

Out: 161.183 $\pm$ 0.026 χ^2 /NDF: 3383446.0/35

All: 163.685 $\pm$ 0.019 χ^2 /NDF: 6404515.6/66

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 139822.122 $\pm$ 0.063

χ^2 /NDF: 1663381581.4/15

Left: 136969.411 $\pm$ 0.041

χ^2 /NDF: 781442719.1/31

Right: 139699.515 $\pm$ 0.043

χ^2 /NDF: 3153646641.6/16

Left Out: 137019.577 $\pm$ 0.056

χ^2 /NDF: 385164270.7/16

Right Out: 139587.876 $\pm$ 0.060

χ^2 /NDF: 1482934186.2/18

Left In: 136914.112 $\pm$ 0.059

χ^2 /NDF: 394592706.6/14

In: 138277.845 $\pm$ 0.043

χ^2 /NDF: 3204244593.7/30

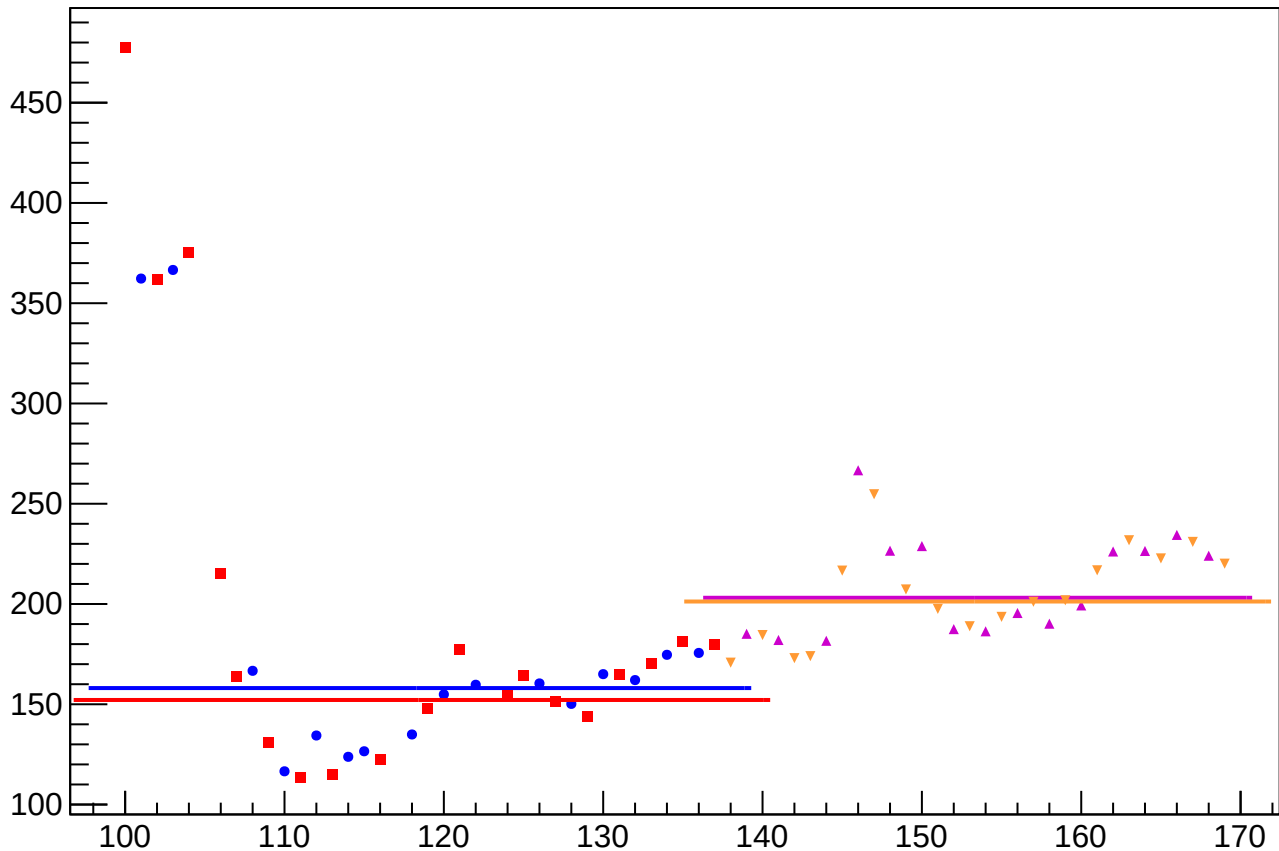
Out: 138221.638 $\pm$ 0.041

χ^2 /NDF: 2851746881.7/30

All: 138248.398 $\pm$ 0.030

χ^2 /NDF: 605689234.0/61

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 158.079 ± 0.044 χ^2/NDF : 1017928.9/15

Left Out: 201.243 ± 0.040 χ^2/NDF : 299433.3/16

Right Out: 152.139 ± 0.042 χ^2/NDF : 1229053.9/18

Left In: 203.107 ± 0.042 χ^2/NDF : 301637.6/14

Left: 202.130 ± 0.029 χ^2/NDF : 602124.1/31

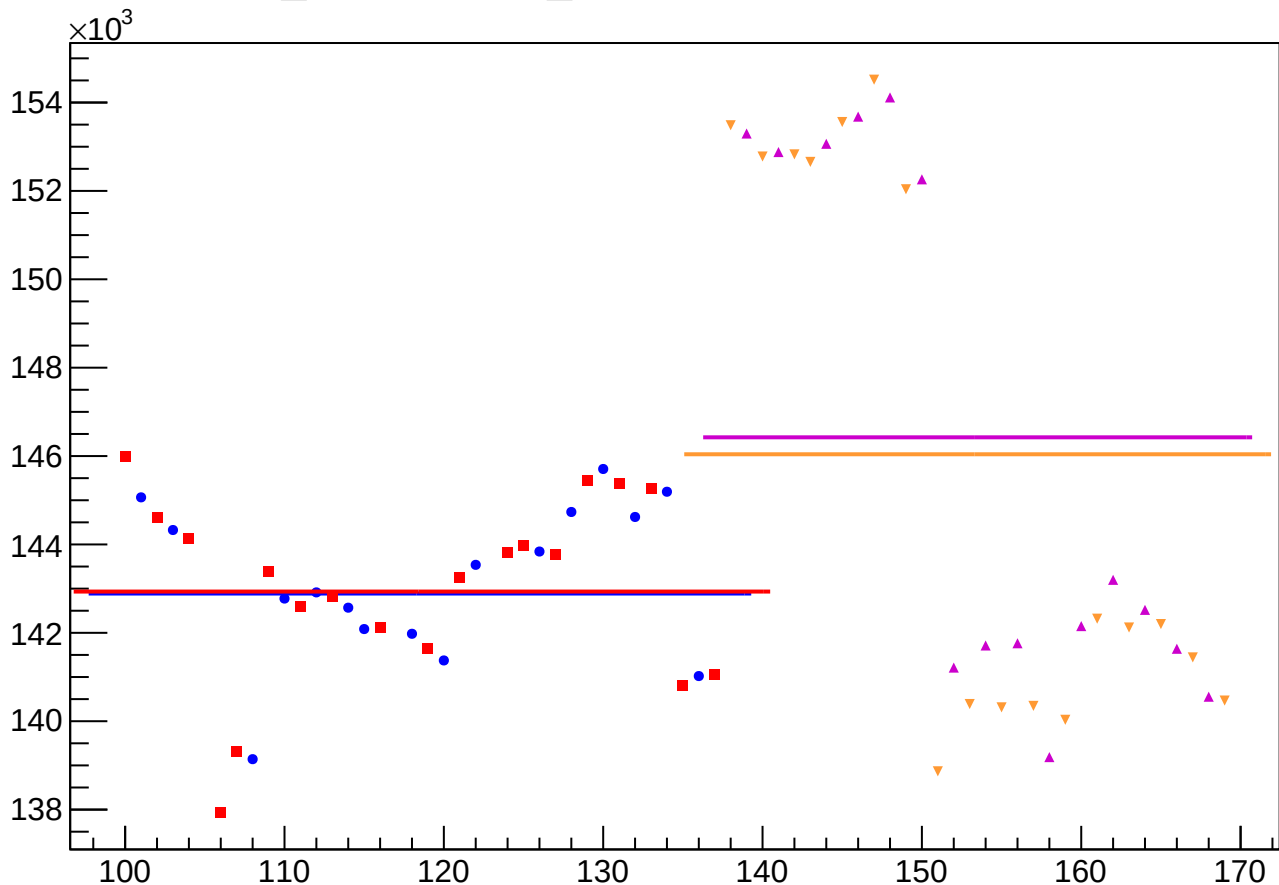
Right: 154.970 ± 0.031 χ^2/NDF : 2256411.8/34

In: 181.991 ± 0.030 χ^2/NDF : 1869215.9/30

Out: 178.260 ± 0.029 χ^2/NDF : 2247628.8/35

All: 180.037 ± 0.021 χ^2/NDF : 4124781.5/66

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 142889.386 $\pm$ 0.066 χ^2 /NDF: 763303771.6/15

Left Out: 146040.605 $\pm$ 0.057 χ^2 /NDF: 11885386418.3/16

Right Out: 142933.890 $\pm$ 0.062 χ^2 /NDF: 787386856.4/18

Left In: 146424.056 $\pm$ 0.060 χ^2 /NDF: 9775027483.1/14

Left: 146223.004 $\pm$ 0.041 χ^2 /NDF: 21682139954.6/15

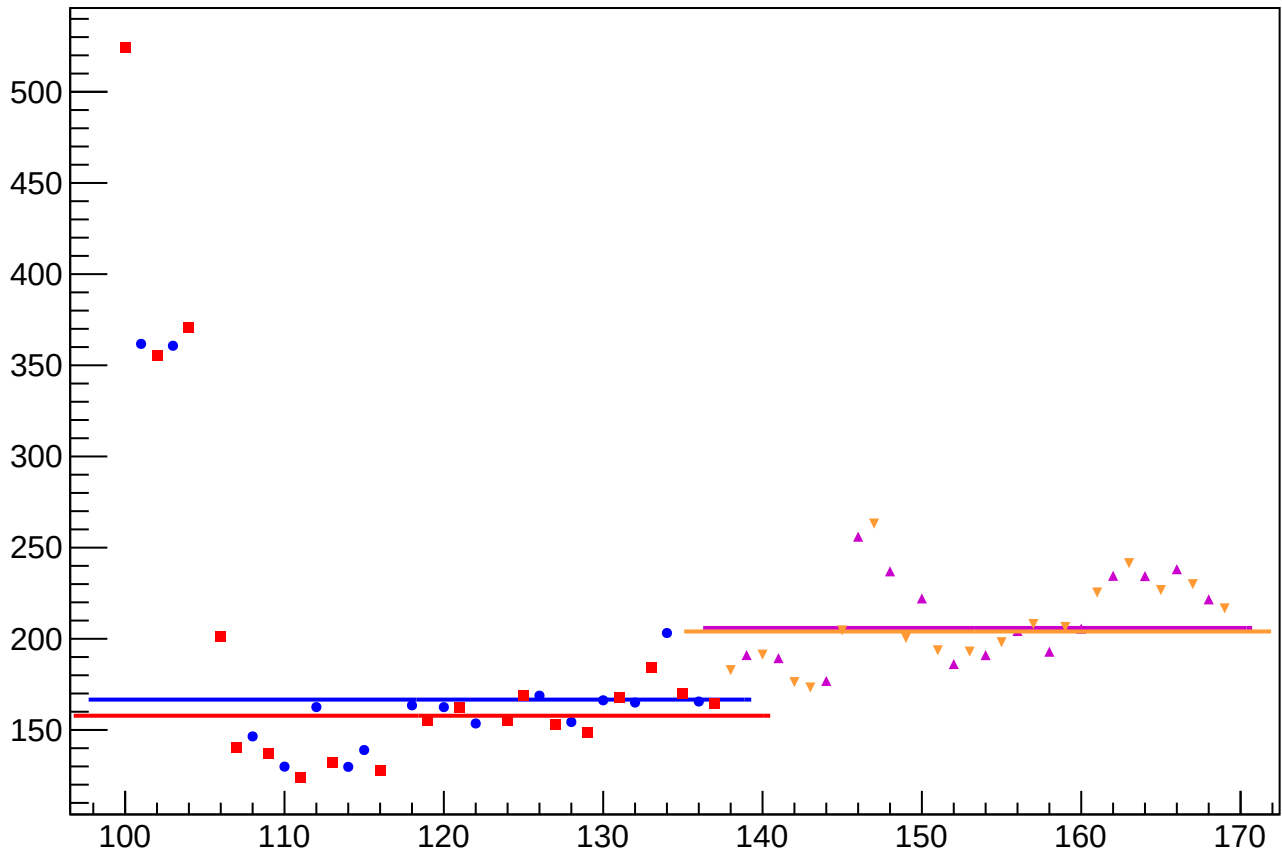
Right: 142913.088 $\pm$ 0.045 χ^2 /NDF: 1550935114.7/15

In: 144828.902 $\pm$ 0.044 χ^2 /NDF: 12127291651.8/3

Out: 144613.085 $\pm$ 0.042 χ^2 /NDF: 14050405663.7/3

All: 144714.933 $\pm$ 0.030 χ^2 /NDF: 261903298.1/15

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 166.656 $\pm$ 0.046 χ^2 /NDF: 863574.7/15

Left Out: 204.017 $\pm$ 0.040 χ^2 /NDF: 284850.2/16

Right Out: 157.809 $\pm$ 0.044 χ^2 /NDF: 1022332.1/18

Left In: 205.952 $\pm$ 0.042 χ^2 /NDF: 282051.1/14

Left: 204.937 $\pm$ 0.029 χ^2 /NDF: 568006.8/31

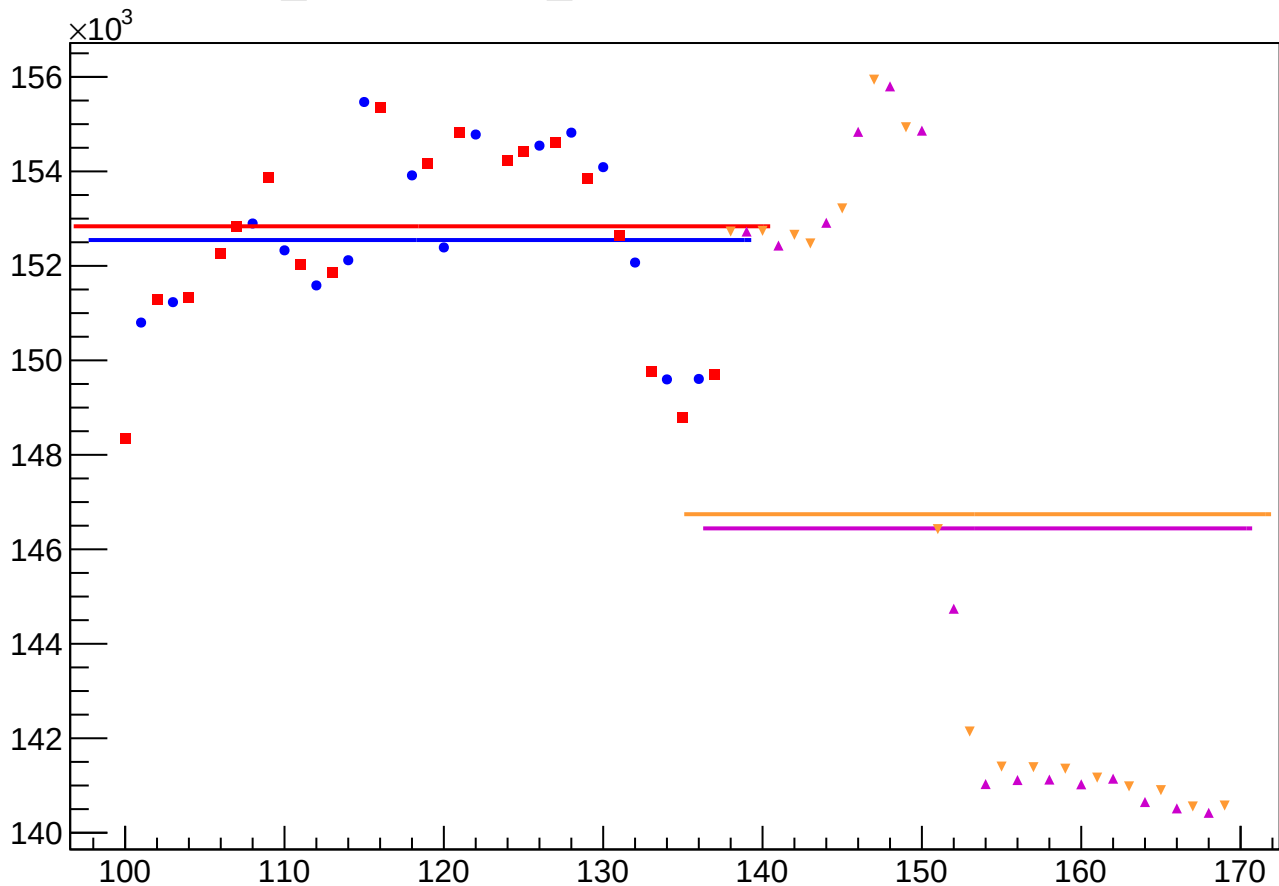
Right: 161.945 $\pm$ 0.032 χ^2 /NDF: 1905231.4/34

In: 188.218 $\pm$ 0.031 χ^2 /NDF: 1538383.3/30

Out: 182.785 $\pm$ 0.029 χ^2 /NDF: 1916725.0/35

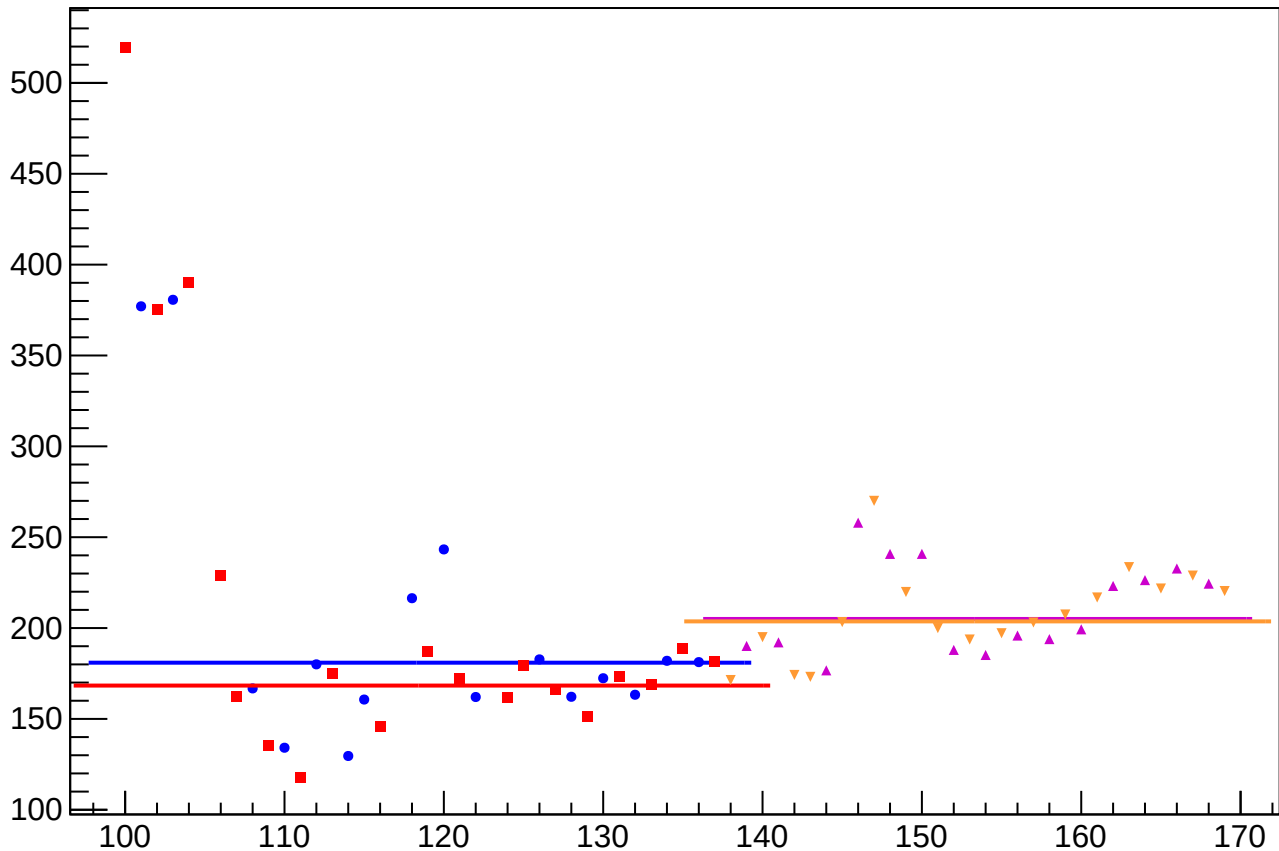
All: 185.349 $\pm$ 0.021 χ^2 /NDF: 3471121.2/66

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: 152546.899 $\pm$ 0.073	χ^2 /NDF: 654540559.6/15	Left: 146599.985 $\pm$ 0.041	χ^2 /NDF: 21469717735.9/15
Left Out: 146743.134 $\pm$ 0.056	χ^2 /NDF: 10799391556.4/16	Right: 152704.814 $\pm$ 0.049	χ^2 /NDF: 1400162101.0/16
Right Out: 152837.888 $\pm$ 0.067	χ^2 /NDF: 736907066.8/18	In: 148876.728 $\pm$ 0.046	χ^2 /NDF: 15559948997.5/18
Left In: 146442.935 $\pm$ 0.059	χ^2 /NDF: 10656843016.5/14	Out: 149288.766 $\pm$ 0.043	χ^2 /NDF: 16404253389.6/14
		All: 149095.576 $\pm$ 0.031	χ^2 /NDF: 320070921.0/14

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 180.938+/-0.051 χ^2/NDF : 907758.2/15

Left Out: 203.672+/-0.040 χ^2/NDF : 315474.3/16

Right Out: 168.349+/-0.047 χ^2/NDF : 1089090.2/18

Left In: 205.003+/-0.042 χ^2/NDF : 306426.0/14

Left: 204.307+/-0.029 χ^2/NDF : 622430.8/31

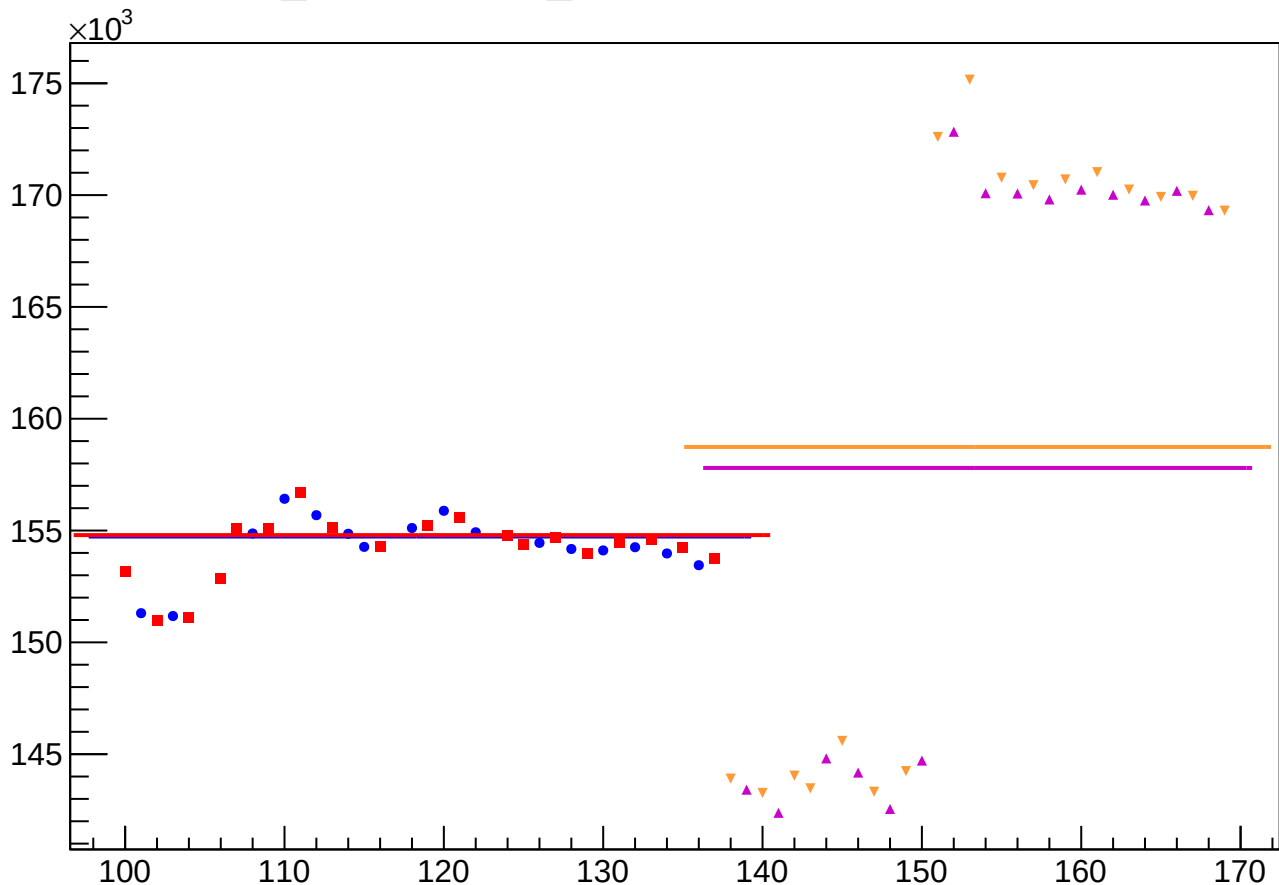
Right: 174.106+/-0.035 χ^2/NDF : 2029471.3/34

In: 195.408+/-0.032 χ^2/NDF : 1346256.9/30

Out: 188.918+/-0.030 χ^2/NDF : 1731581.2/35

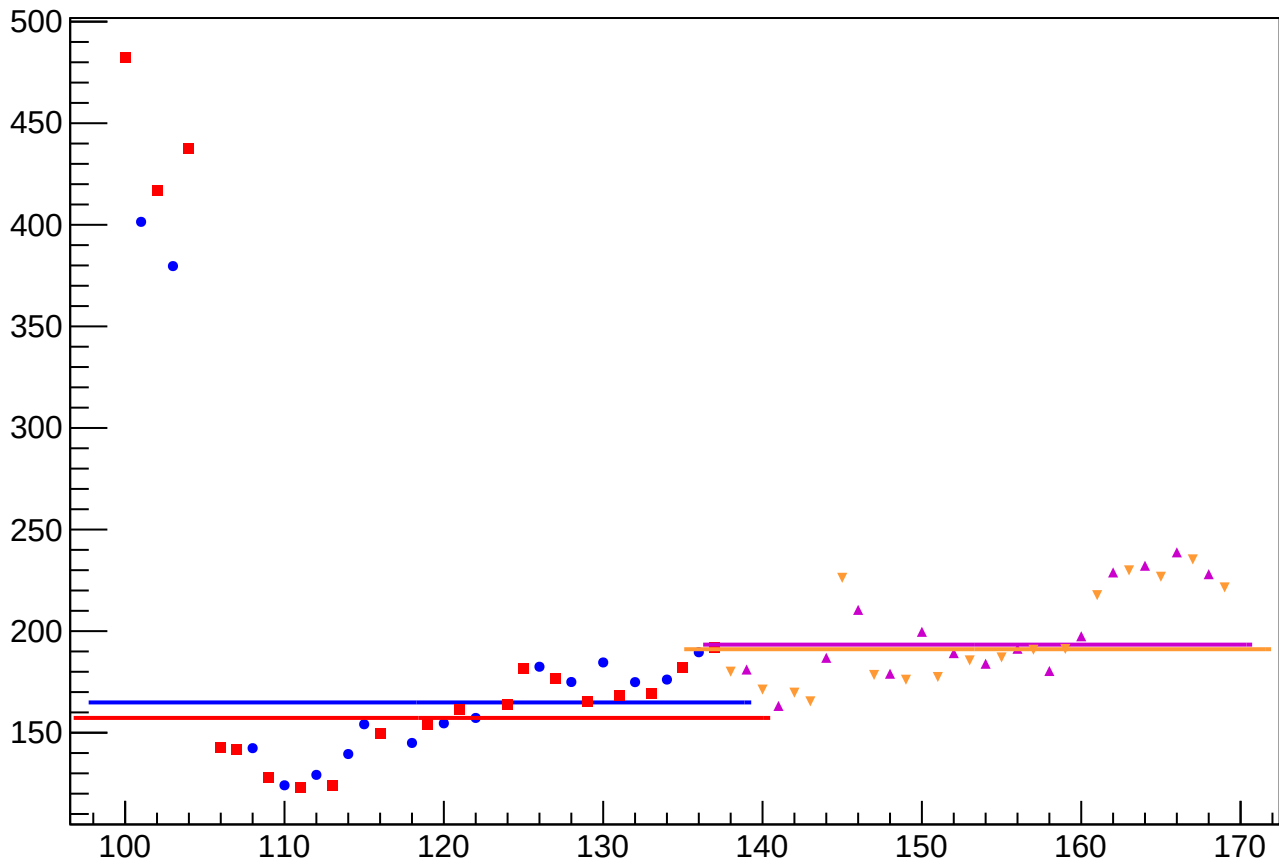
All: 191.961+/-0.022 χ^2/NDF : 3099117.5/66

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 154733.155+/-0.065	χ^2/NDF : 274462319.1/15	Left: 158291.696+/-0.038	χ^2/NDF : 125546881166.
Left Out: 158737.771+/-0.053	χ^2/NDF : 67232833945.8/16	Right: 154766.574+/-0.045	χ^2/NDF : 579080682.1/3
Right Out: 154795.893+/-0.061	χ^2/NDF : 304125082.4/18	In: 156509.129+/-0.042	χ^2/NDF : 59719952085.2/3
Left In: 157799.253+/-0.056	χ^2/NDF : 58164364081.1/14	Out: 157048.324+/-0.040	χ^2/NDF : 69918020065.3
		All: 156793.873+/-0.029	χ^2/NDF : 129723818

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 164.906 $\pm$ 0.046 χ^2 /NDF: 1072730.7/15

Left Out: 191.101 $\pm$ 0.037 χ^2 /NDF:340118.3/16

Right Out: 157.283 $\pm$ 0.043 χ^2 /NDF: 1254831.2/18

Left In: 193.357 $\pm$ 0.039 χ^2 /NDF:262025.0/14

Left: 192.173 $\pm$ 0.027 χ^2 /NDF: 603872.1/31

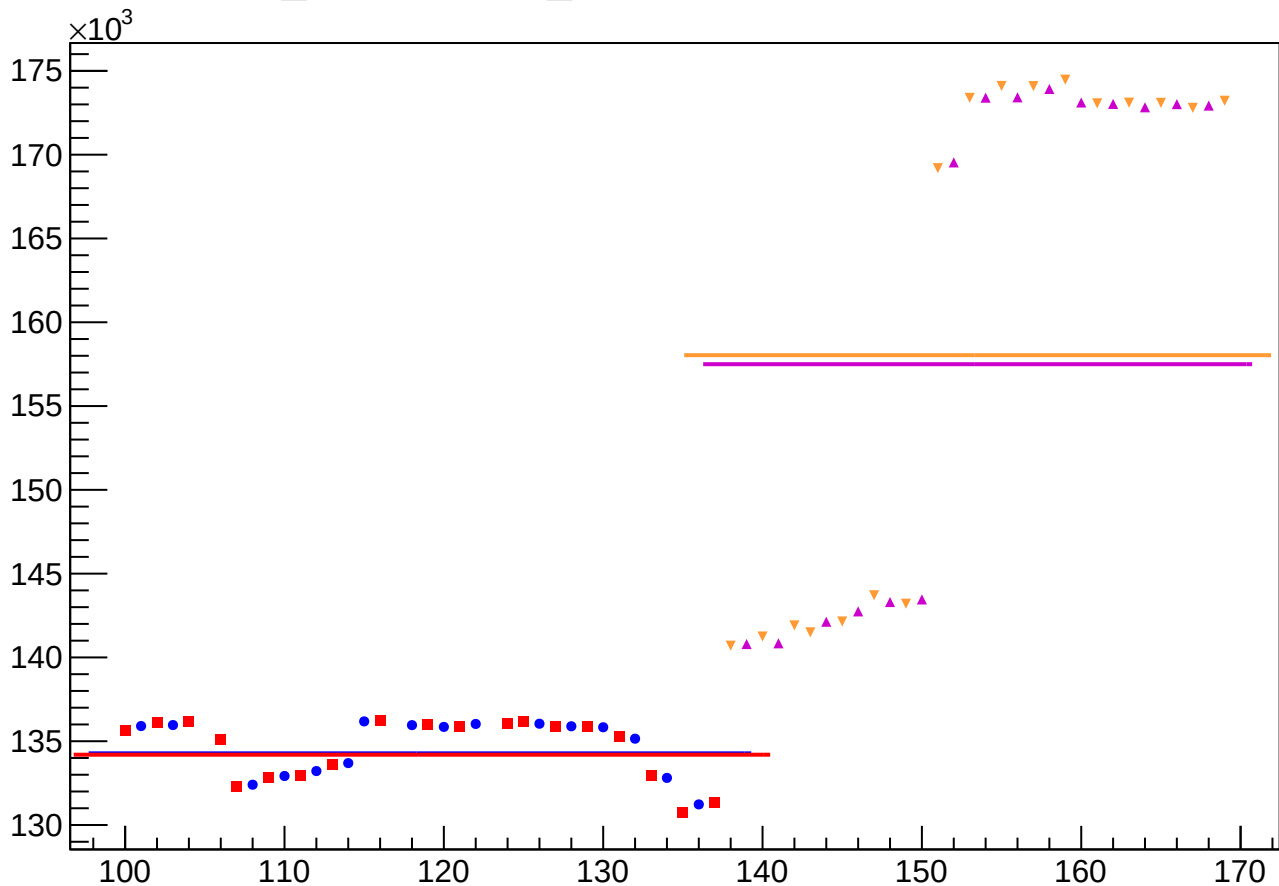
Right: 160.846 $\pm$ 0.032 χ^2 /NDF: 2342128.6/34

In: 181.386 $\pm$ 0.030 χ^2 /NDF:1555362.4/30

Out: 176.607 $\pm$ 0.028 χ^2 /NDF:1945455.3/35

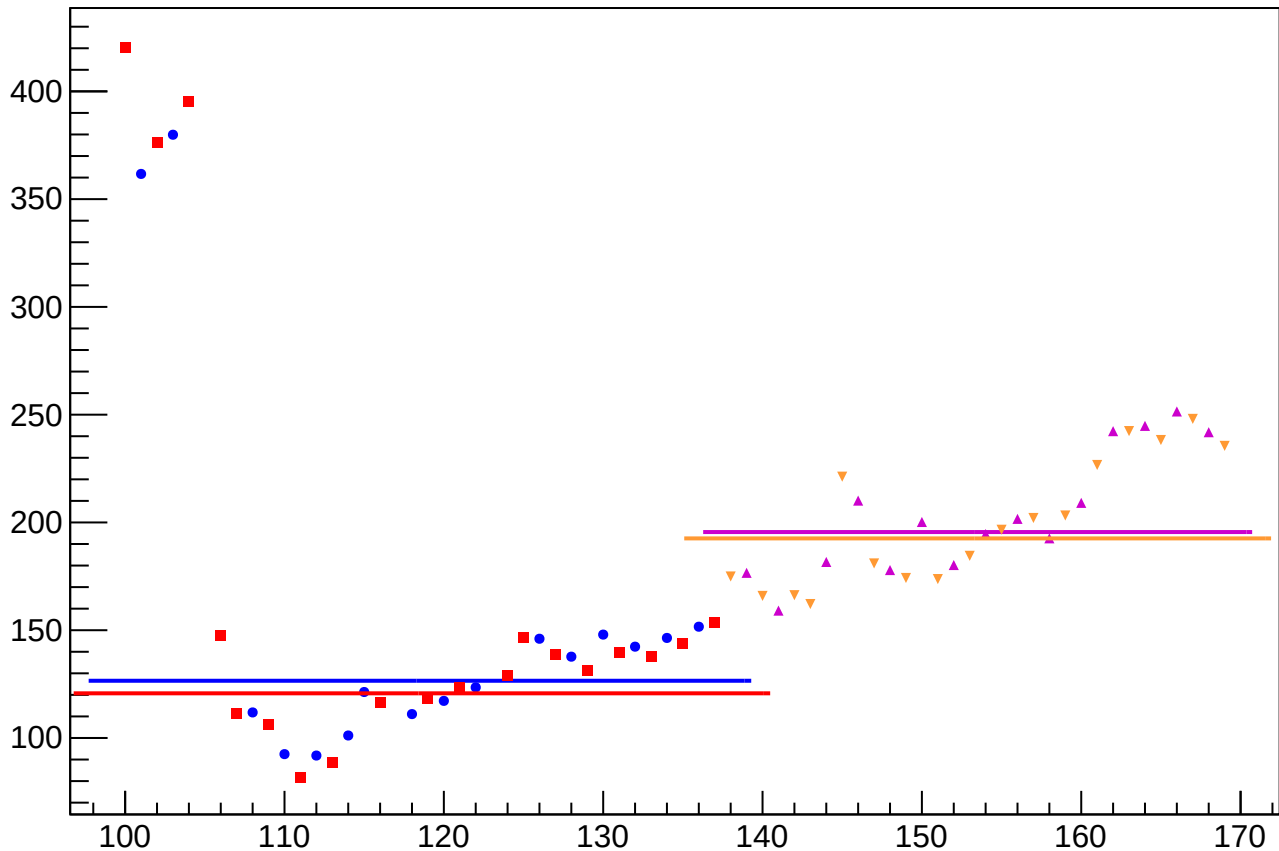
All: 178.862 $\pm$ 0.021 χ^2 /NDF: 3514302.5/66

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 134276.096 $\pm$ 0.051	χ^2 /NDF: 1142867100.2/15	Left: 157781.458 $\pm$ 0.039	χ^2 /NDF: 157944130013.
Left Out: 158036.273 $\pm$ 0.053	χ^2 /NDF: 83825516642.7/16	Right: 134233.345 $\pm$ 0.035	χ^2 /NDF: 2349742421.8.
Right Out: 134195.257 $\pm$ 0.048	χ^2 /NDF: 1205537499.7/18	In: 144682.281 $\pm$ 0.038	χ^2 /NDF: 168760946032.9
Left In: 157498.144 $\pm$ 0.056	χ^2 /NDF: 74070691026.0/14	Out: 144823.167 $\pm$ 0.036	χ^2 /NDF: 195123200705.
		All: 144756.638 $\pm$ 0.026	χ^2 /NDF: 363891495.

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 126.551 $\pm$ 0.036 χ^2 /NDF: 1477429.4/15

Left Out: 192.596 $\pm$ 0.038 χ^2 /NDF: 504955.5/16

Right Out: 120.723 $\pm$ 0.034 χ^2 /NDF: 1632726.2/18

Left In: 195.545 $\pm$ 0.040 χ^2 /NDF: 395567.9/14

Left: 193.992 $\pm$ 0.027 χ^2 /NDF: 903402.9/31

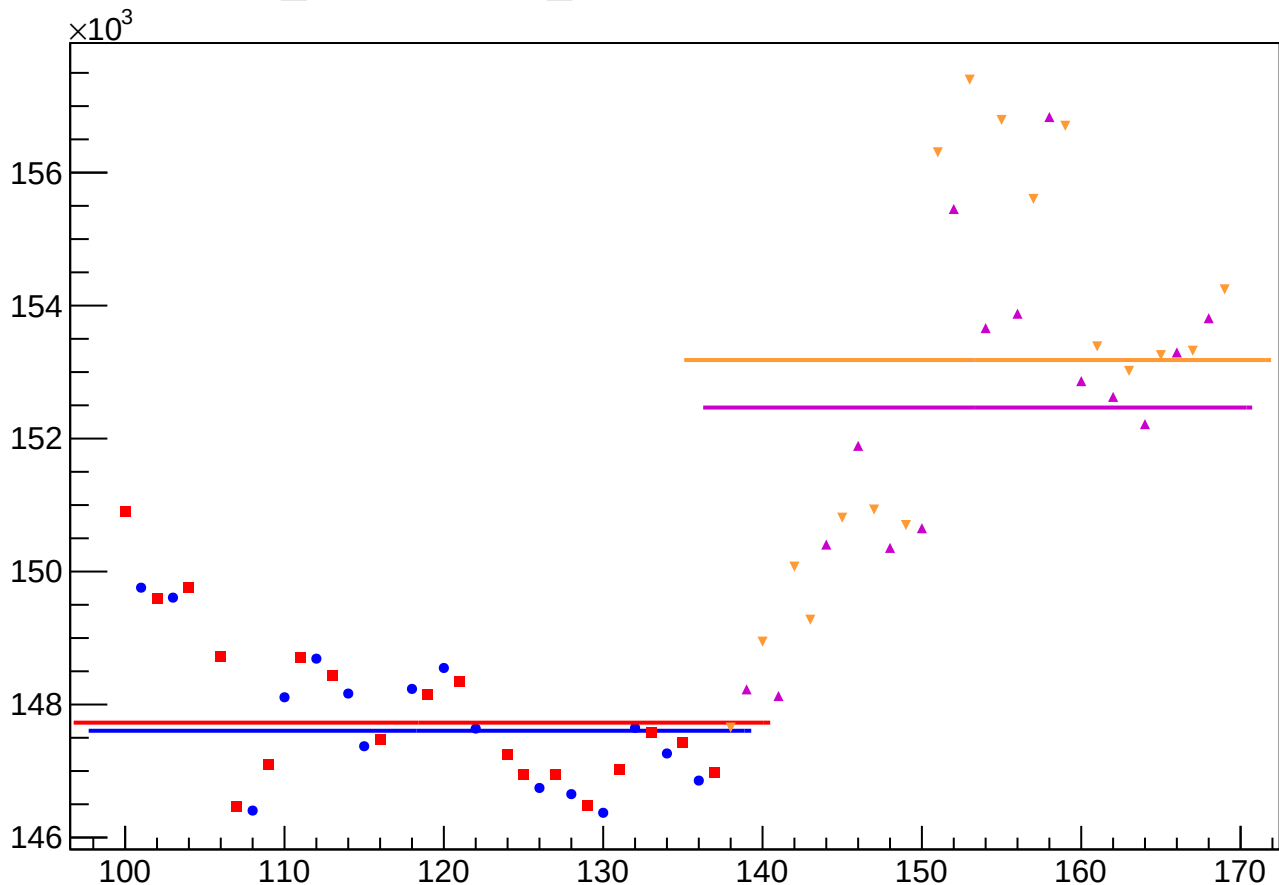
Right: 123.469 $\pm$ 0.025 χ^2 /NDF: 3124061.5/34

In: 157.468 $\pm$ 0.027 χ^2 /NDF: 3524538.4/30

Out: 152.763 $\pm$ 0.025 χ^2 /NDF: 4138762.3/35

All: 154.985 $\pm$ 0.018 χ^2 /NDF: 7679696.9/66

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 147605.604 $\pm$ 0.062 χ^2 /NDF: 200513366.5/15

Left Out: 153180.970 $\pm$ 0.058 χ^2 /NDF: 2928705775.1/16

Right Out: 147727.598 $\pm$ 0.059 χ^2 /NDF: 194800119.4/18

Left In: 152466.628 $\pm$ 0.061 χ^2 /NDF: 1751243006.4/14

Left: 152841.110 $\pm$ 0.042 χ^2 /NDF: 4752946280.5/3

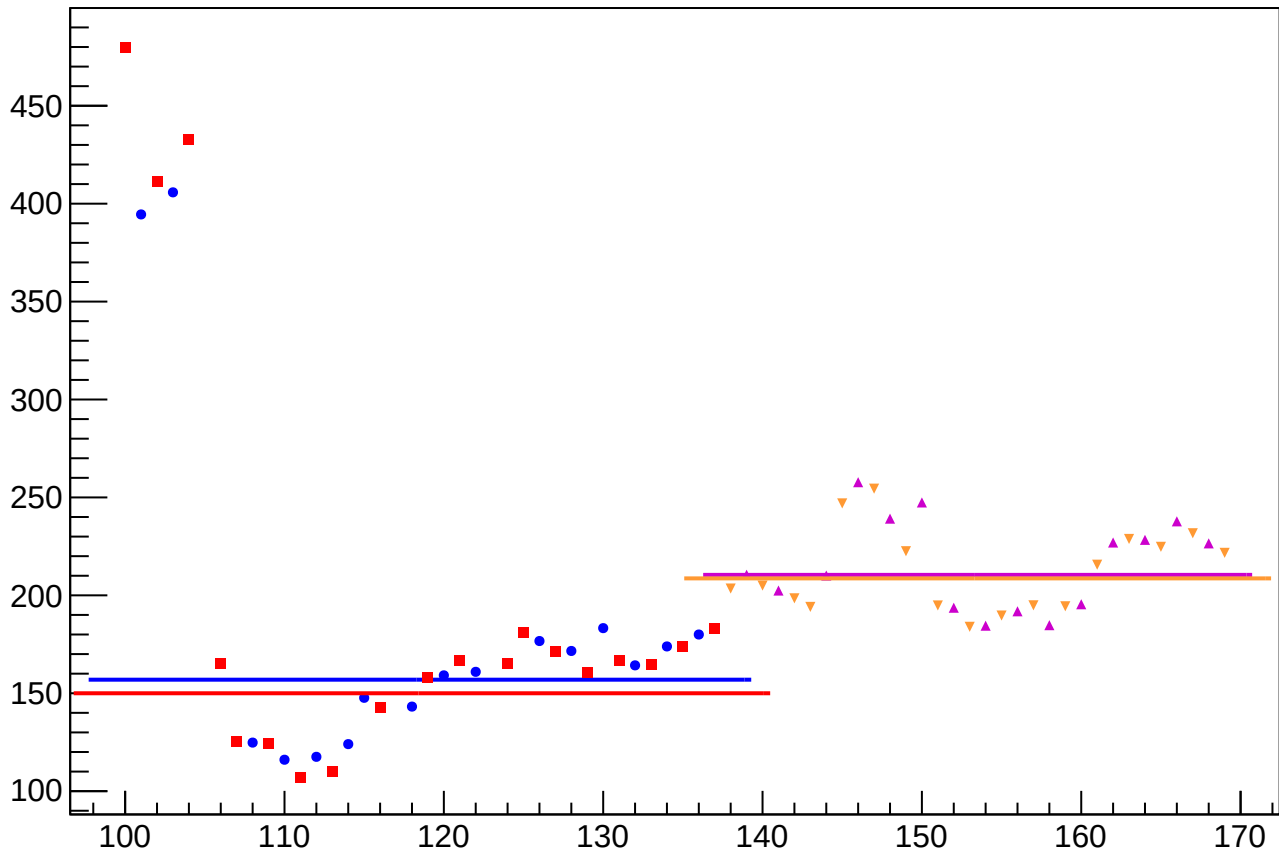
Right: 147670.157 $\pm$ 0.043 χ^2 /NDF: 397331184.2/3

In: 150112.680 $\pm$ 0.043 χ^2 /NDF: 5074203976.7/30

Out: 150513.322 $\pm$ 0.041 χ^2 /NDF: 7497676288.5/3

All: 150323.669 $\pm$ 0.030 χ^2 /NDF: 126166050

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 156.927 $\pm$ 0.044 χ^2 /NDF: 1265768.6/15

Left Out: 208.655 $\pm$ 0.041 χ^2 /NDF:224174.5/16

Right Out: 149.994 $\pm$ 0.042 χ^2 /NDF: 1453928.8/18

Left In: 210.446 $\pm$ 0.043 χ^2 /NDF:270281.9/14

Left: 209.507 $\pm$ 0.030 χ^2 /NDF: 495373.6/31

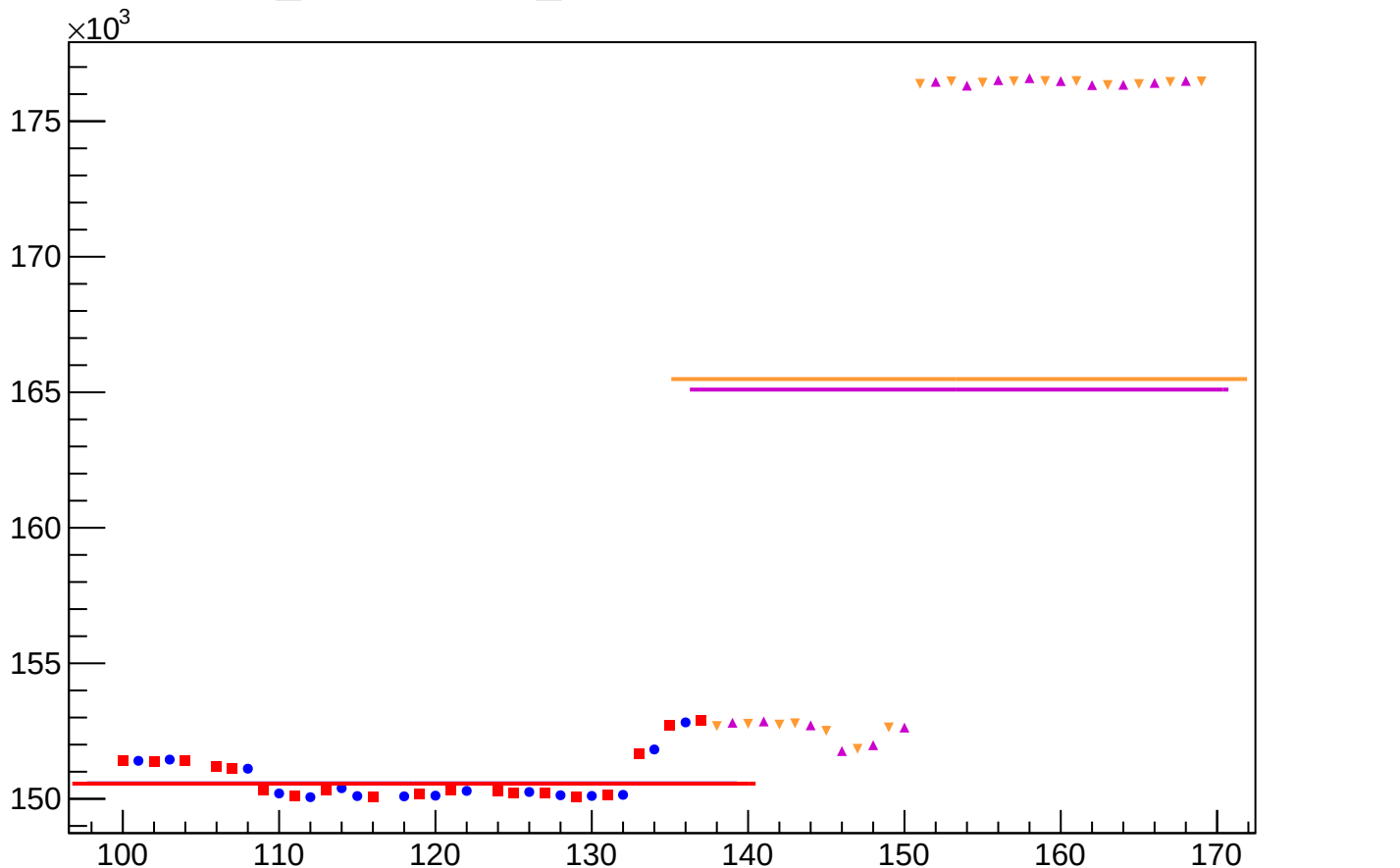
Right: 153.258 $\pm$ 0.030 χ^2 /NDF: 2732730.8/34

In: 184.529 $\pm$ 0.031 χ^2 /NDF:2293018.3/30

Out: 179.960 $\pm$ 0.029 χ^2 /NDF:2690372.4/35

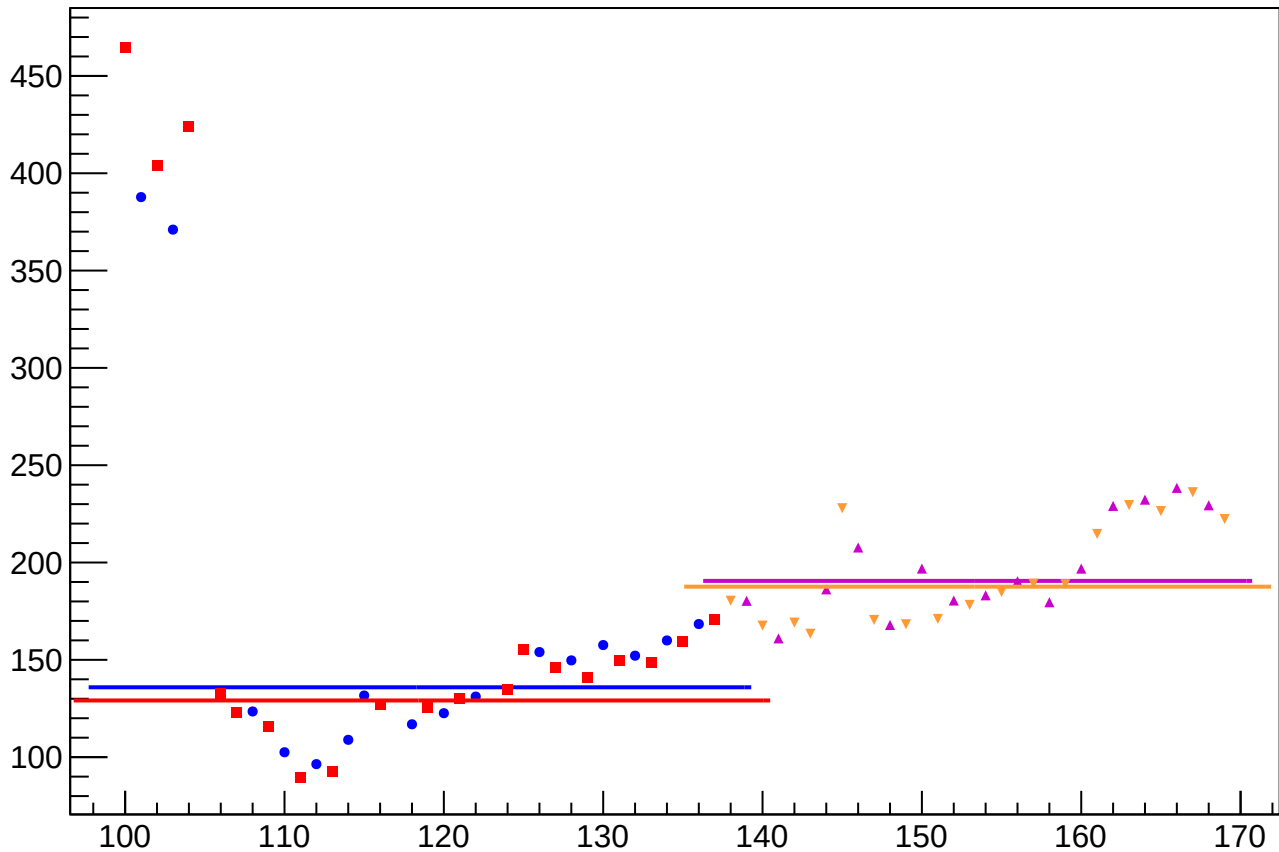
All: 182.123 $\pm$ 0.021 χ^2 /NDF: 4995027.3/66

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 150568.638 $\pm$ 0.055	χ^2 /NDF: 237155171.8/15	Left: 165303.891 $\pm$ 0.038	χ^2 /NDF: 100168389158.
Left Out: 165487.563 $\pm$ 0.052	χ^2 /NDF: 52503893875.8/16	Right: 150564.903 $\pm$ 0.037	χ^2 /NDF: 434664709.4/3
Right Out: 150561.647 $\pm$ 0.051	χ^2 /NDF: 197500782.5/18	In: 157804.873 $\pm$ 0.039	χ^2 /NDF: 83131820817.1/3
Left In: 165099.181 $\pm$ 0.055	χ^2 /NDF: 47638048536.4/14	Out: 157886.315 $\pm$ 0.036	χ^2 /NDF: 94764175140.7
		All: 157848.098 $\pm$ 0.027	χ^2 /NDF: 177898347

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 135.896 ± 0.039 χ^2/NDF : 1416332.3/15

Left Out: 187.590 ± 0.037 χ^2/NDF : 405299.1/16

Right Out: 129.130 ± 0.036 χ^2/NDF : 1614311.0/18

Left In: 190.566 ± 0.039 χ^2/NDF : 304593.5/14

Left: 188.997 ± 0.027 χ^2/NDF : 712997.7/31

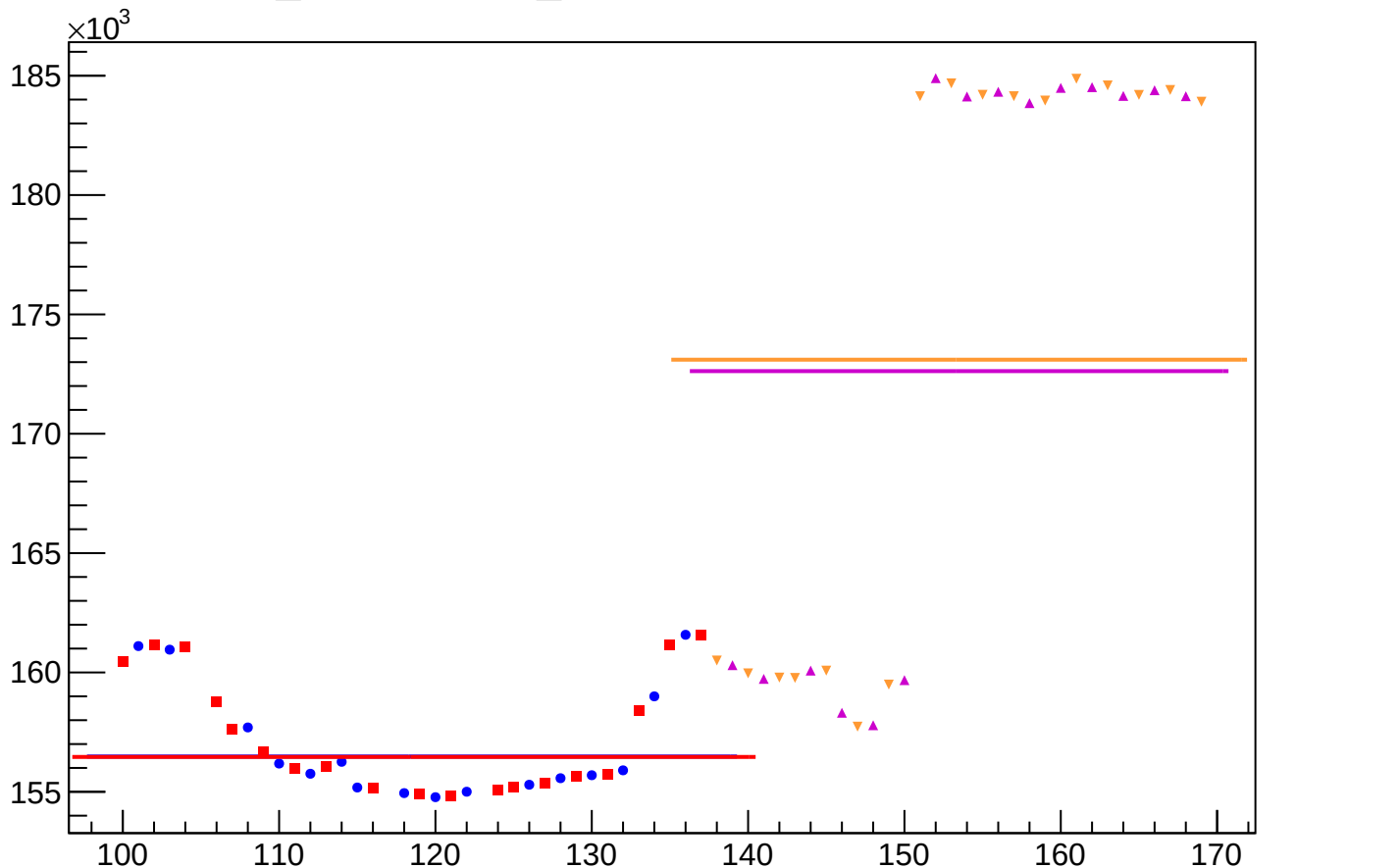
Right: 132.281 ± 0.026 χ^2/NDF : 3047045.4/34

In: 163.122 ± 0.027 χ^2/NDF : 2719082.9/30

Out: 157.819 ± 0.026 χ^2/NDF : 3310105.4/35

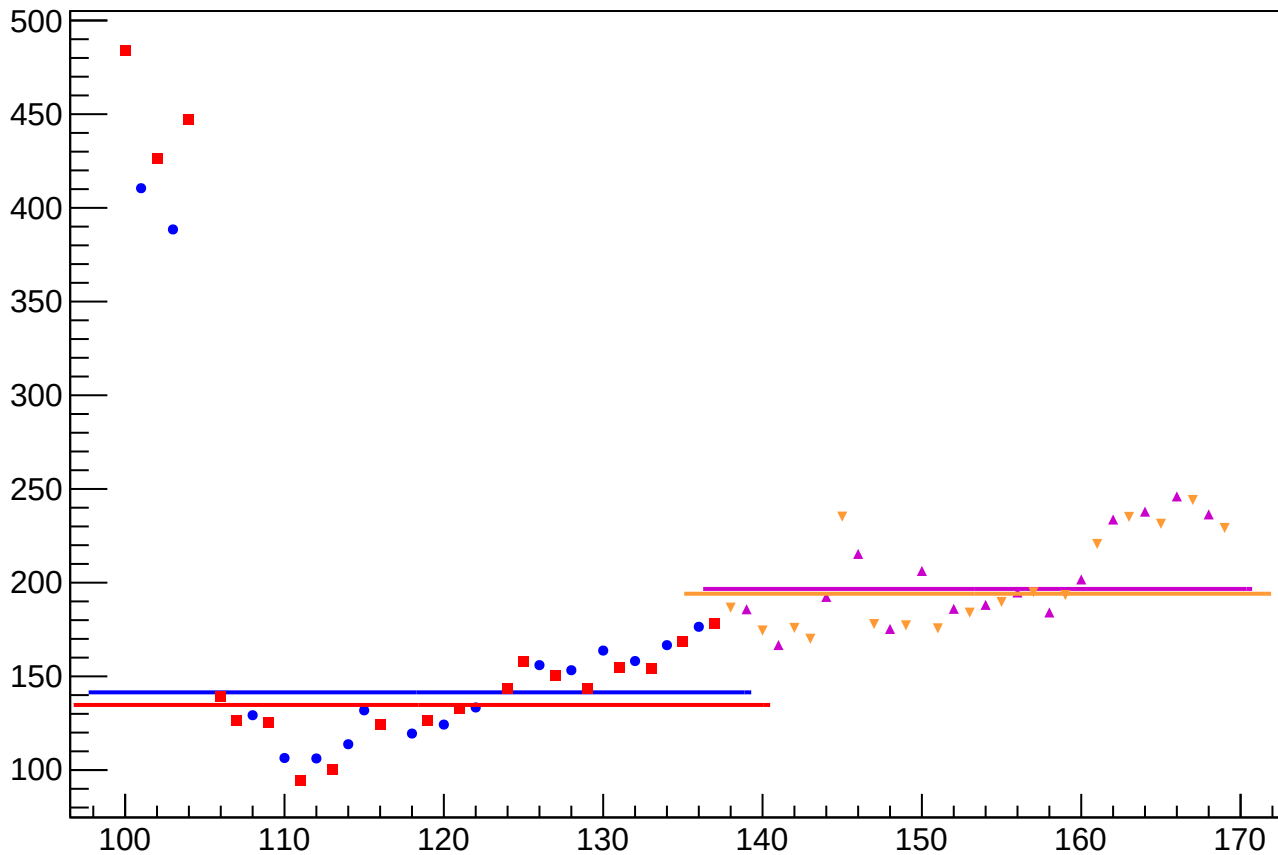
All: 160.307 ± 0.019 χ^2/NDF : 6049127.8/66

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 156478.318 $\pm$ 0.057	χ^2 /NDF: 1289449253.3/15	Left: 172875.314 $\pm$ 0.039	χ^2 /NDF: 101462990392.0
Left Out: 173102.336 $\pm$ 0.054	χ^2 /NDF: 52715871920.2/16	Right: 156468.838 $\pm$ 0.039	χ^2 /NDF: 2390033091.6
Right Out: 156460.550 $\pm$ 0.053	χ^2 /NDF: 1100531658.8/18	In: 164585.355 $\pm$ 0.040	χ^2 /NDF: 90549077861.3/3
Left In: 172623.473 $\pm$ 0.057	χ^2 /NDF: 48709436443.8/14	Out: 164690.191 $\pm$ 0.038	χ^2 /NDF: 102340934598.0
		All: 164640.889 $\pm$ 0.027	χ^2 /NDF: 192893630.0

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 141.470 $\pm$ 0.040 χ^2 /NDF: 1391933.2/15

Left Out: 194.095 $\pm$ 0.038 χ^2 /NDF: 378112.3/16

Right Out: 134.746 $\pm$ 0.038 χ^2 /NDF: 1579031.5/18

Left In: 196.659 $\pm$ 0.040 χ^2 /NDF: 293747.3/14

Left: 195.310 $\pm$ 0.028 χ^2 /NDF: 674019.9/31

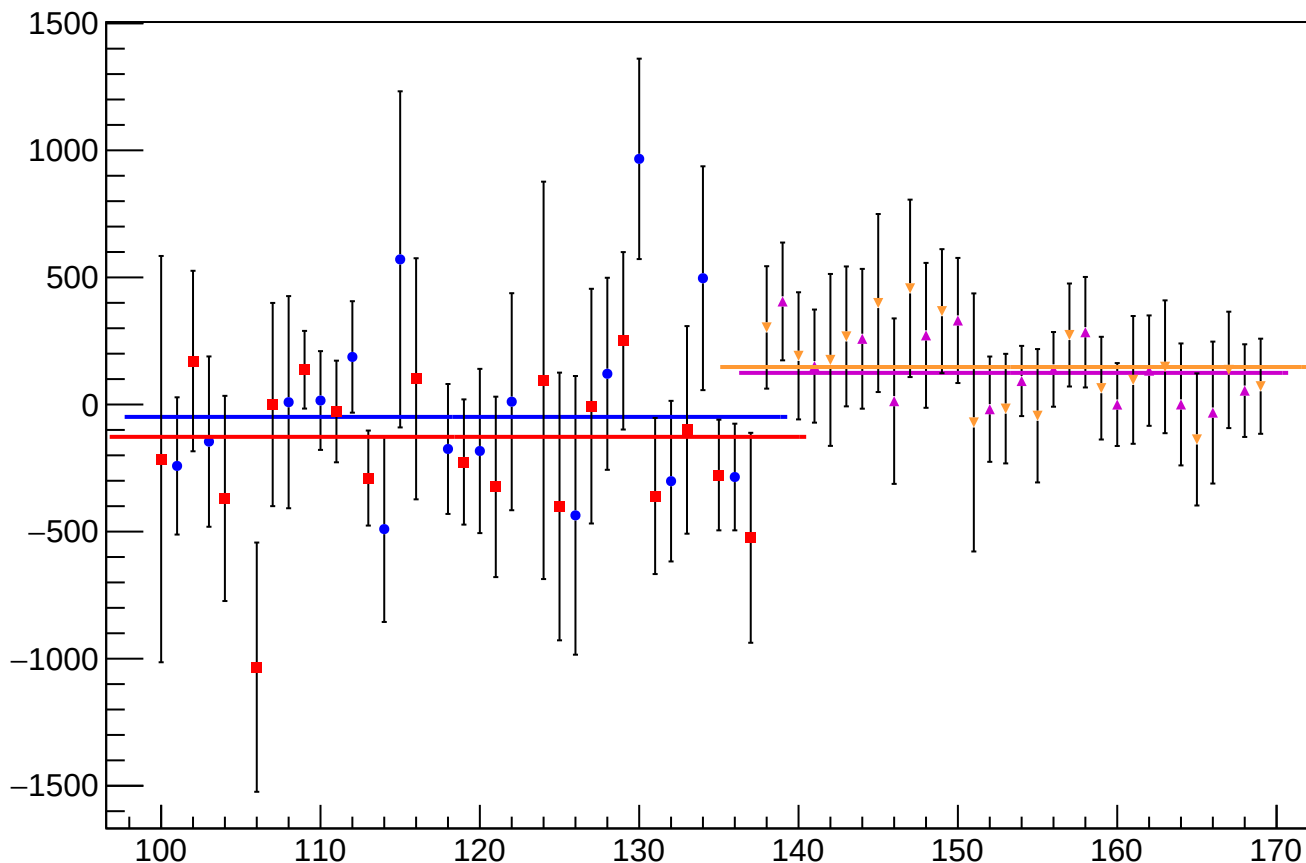
Right: 137.883 $\pm$ 0.027 χ^2 /NDF: 2985912.1/34

In: 169.182 $\pm$ 0.028 χ^2 /NDF: 2633307.1/30

Out: 164.095 $\pm$ 0.027 χ^2 /NDF: 3191445.9/35

All: 166.487 $\pm$ 0.019 χ^2 /NDF: 5841815.2/66

asym_bcm_target_mean vs Slug, Sign Corrected



Right In: -48.749 ± 76.592 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 147.522 ± 60.856 $\chi^2/\text{NDF}: 6.0/16$

Right Out: -127.249 ± 68.506 $\chi^2/\text{NDF}: 12.9/18$

Left In: 124.416 ± 53.256 $\chi^2/\text{NDF}: 5.2/14$

Left: 134.437 ± 40.077 $\chi^2/\text{NDF}: 11.3/31$

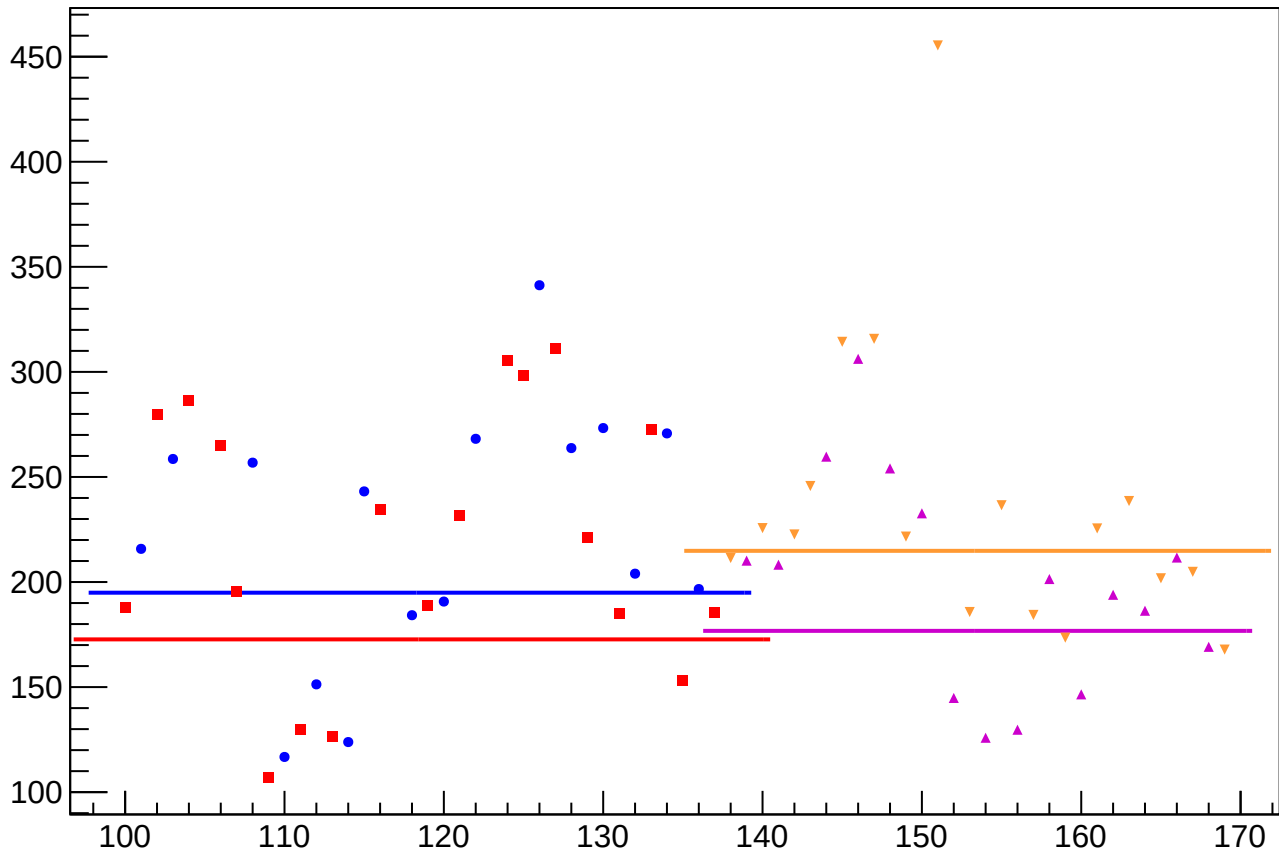
Right: -92.360 ± 51.061 $\chi^2/\text{NDF}: 28.9/34$

In: 67.980 ± 43.725 $\chi^2/\text{NDF}: 24.1/30$

Out: 26.328 ± 45.497 $\chi^2/\text{NDF}: 27.9/35$

All: 47.981 ± 31.526 $\chi^2/\text{NDF}: 52.4/66$

asym_bcm_target_rms vs Slug, Sign Corrected



Right In: 194.923+/-0.054 χ^2/NDF : 1028901.2/15

Left Out: 214.843+/-0.043 χ^2/NDF : 1143392.5/16

Right Out: 172.704+/-0.048 χ^2/NDF : 1631350.4/18

Left In: 176.758+/-0.038 χ^2/NDF : 1498764.8/14

Left: 193.275+/-0.028 χ^2/NDF : 3085747.3/31

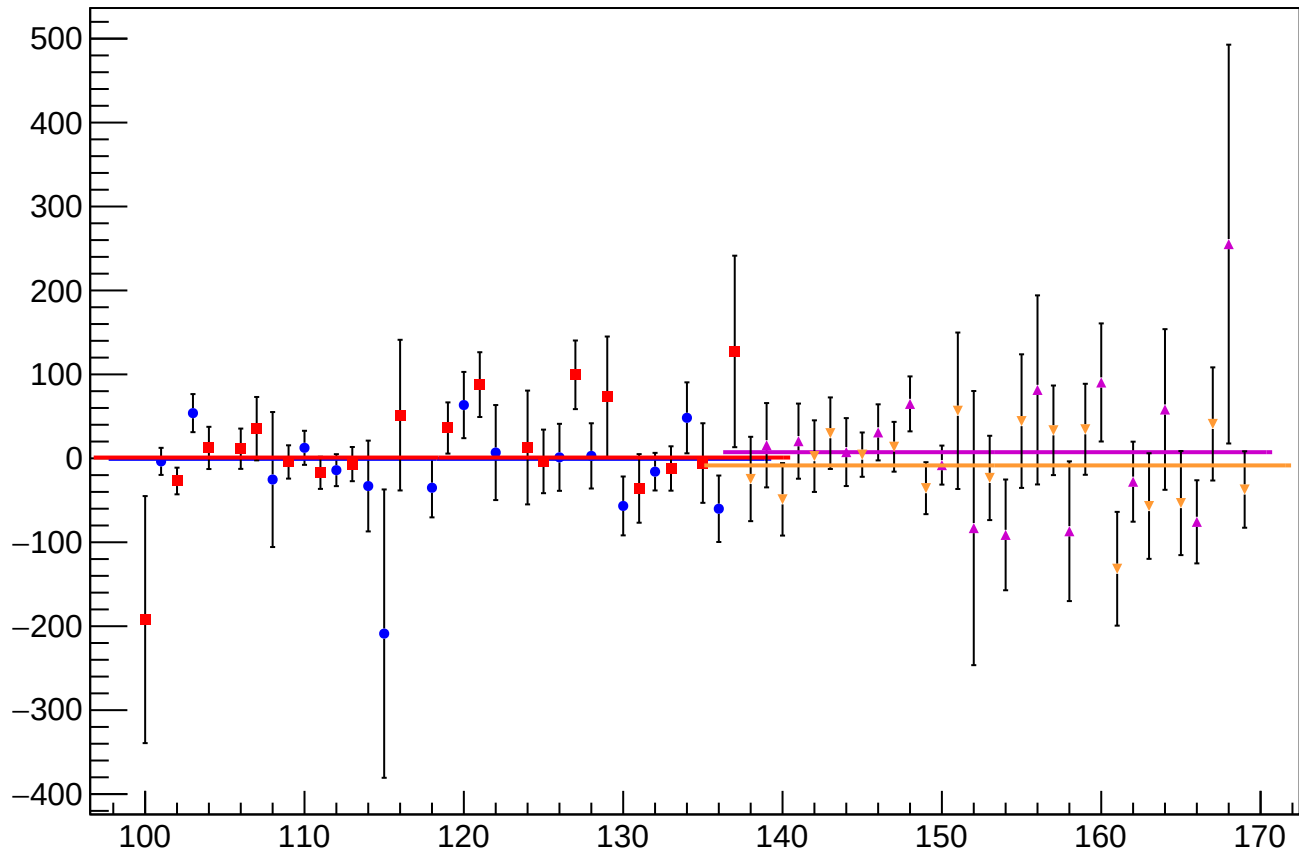
Right: 182.579+/-0.036 χ^2/NDF : 2753755.7/34

In: 182.678+/-0.031 χ^2/NDF : 2603497.9/30

Out: 196.256+/-0.032 χ^2/NDF : 3197697.7/35

All: 189.198+/-0.022 χ^2/NDF : 5893806.7/66

asym_bcm_an_diff_mean vs Slug, Sign Corrected



Right In: -0.624 ± 7.340 $\chi^2/\text{NDF}: 18.9/15$

Left Out: -8.431 ± 10.885 $\chi^2/\text{NDF}: 11.0/16$

Right Out: 0.938 ± 6.767 $\chi^2/\text{NDF}: 23.1/18$

Left In: 7.324 ± 12.080 $\chi^2/\text{NDF}: 14.5/14$

Left: -1.372 ± 8.086 $\chi^2/\text{NDF}: 26.5/31$

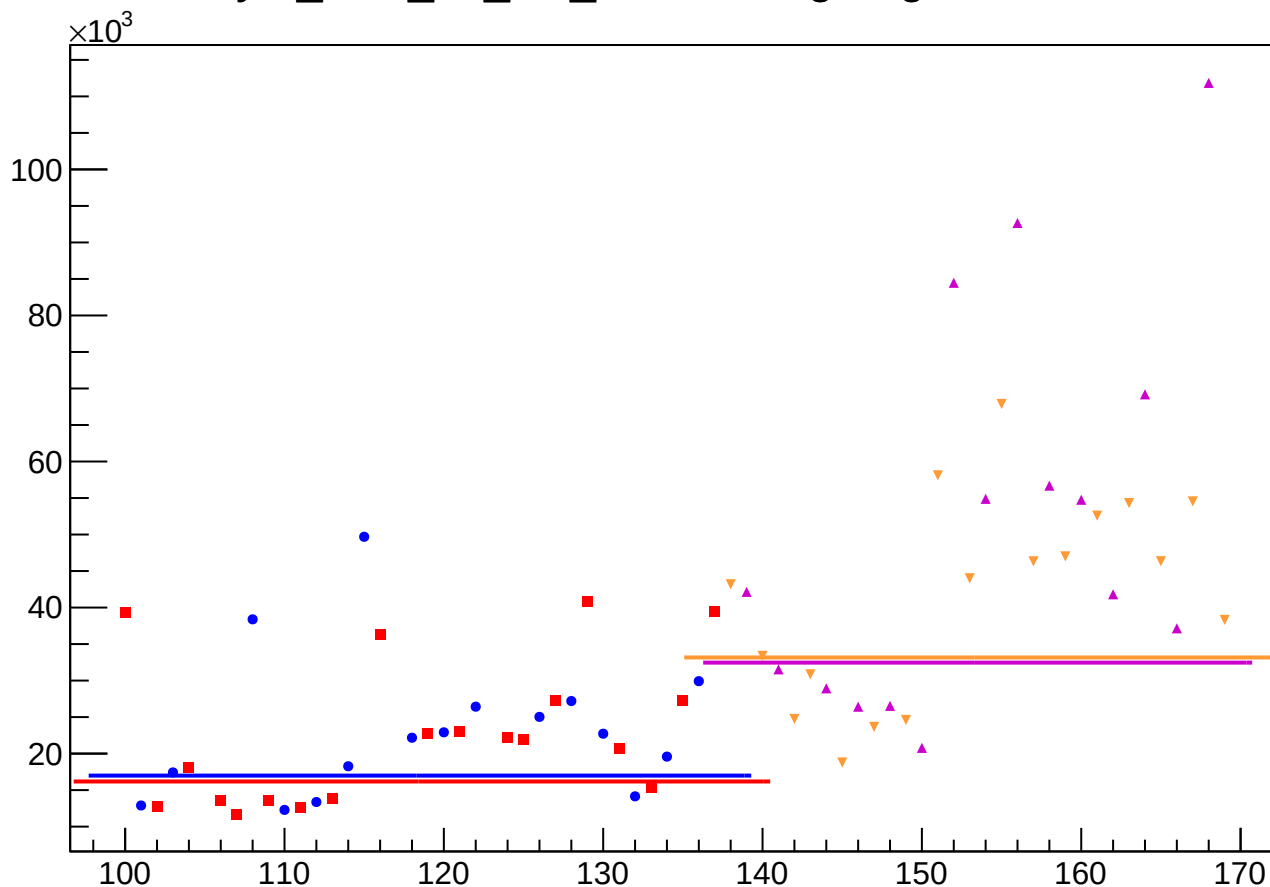
Right: 0.220 ± 4.975 $\chi^2/\text{NDF}: 42.0/34$

In: 1.519 ± 6.273 $\chi^2/\text{NDF}: 33.7/30$

Out: -1.674 ± 5.747 $\chi^2/\text{NDF}: 34.6/35$

All: -0.217 ± 4.237 $\chi^2/\text{NDF}: 68.5/66$

asym_bcm_an_diff_rms vs Slug, Sign Corrected



Right In: 16986.402 $\pm$ 5.190

χ^2 /NDF: 1194096.1/15

Left Out: 33164.787 $\pm$ 7.697

χ^2 /NDF: 2691943.3/16

Right Out: 16181.928 $\pm$ 4.785

χ^2 /NDF: 1251495.8/18

Left In: 32459.559 $\pm$ 8.542

χ^2 /NDF: 2713867.0/14

Left: 32848.795 $\pm$ 5.718 χ^2 /NDF: 5409572.2/31

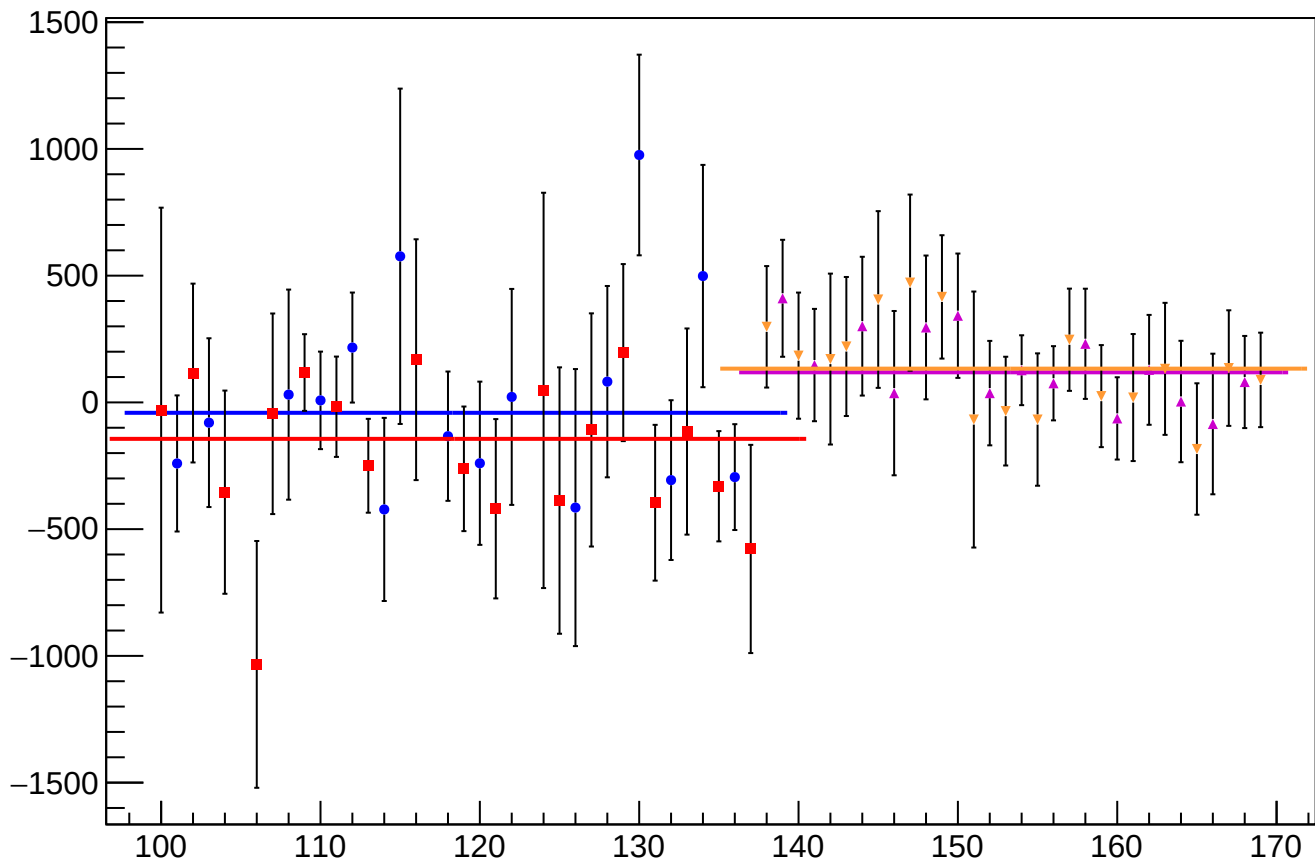
Right: 16551.529 $\pm$ 3.518 χ^2 /NDF: 2458578.1/34

In: 21158.693 $\pm$ 4.436 χ^2 /NDF: 6304356.8/30

Out: 20916.215 $\pm$ 4.064 χ^2 /NDF: 7454998.8/35

All: 21026.861 $\pm$ 2.996 χ^2 /NDF: 13760980.2

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -41.048 ± 76.156 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 133.190 ± 60.608 $\chi^2/\text{NDF}: 7.3/16$

Right Out: -143.821 ± 68.080 $\chi^2/\text{NDF}: 13.0/18$

Left In: 118.643 ± 53.072 $\chi^2/\text{NDF}: 5.9/14$

Left: 124.957 ± 39.928 $\chi^2/\text{NDF}: 13.2/31$

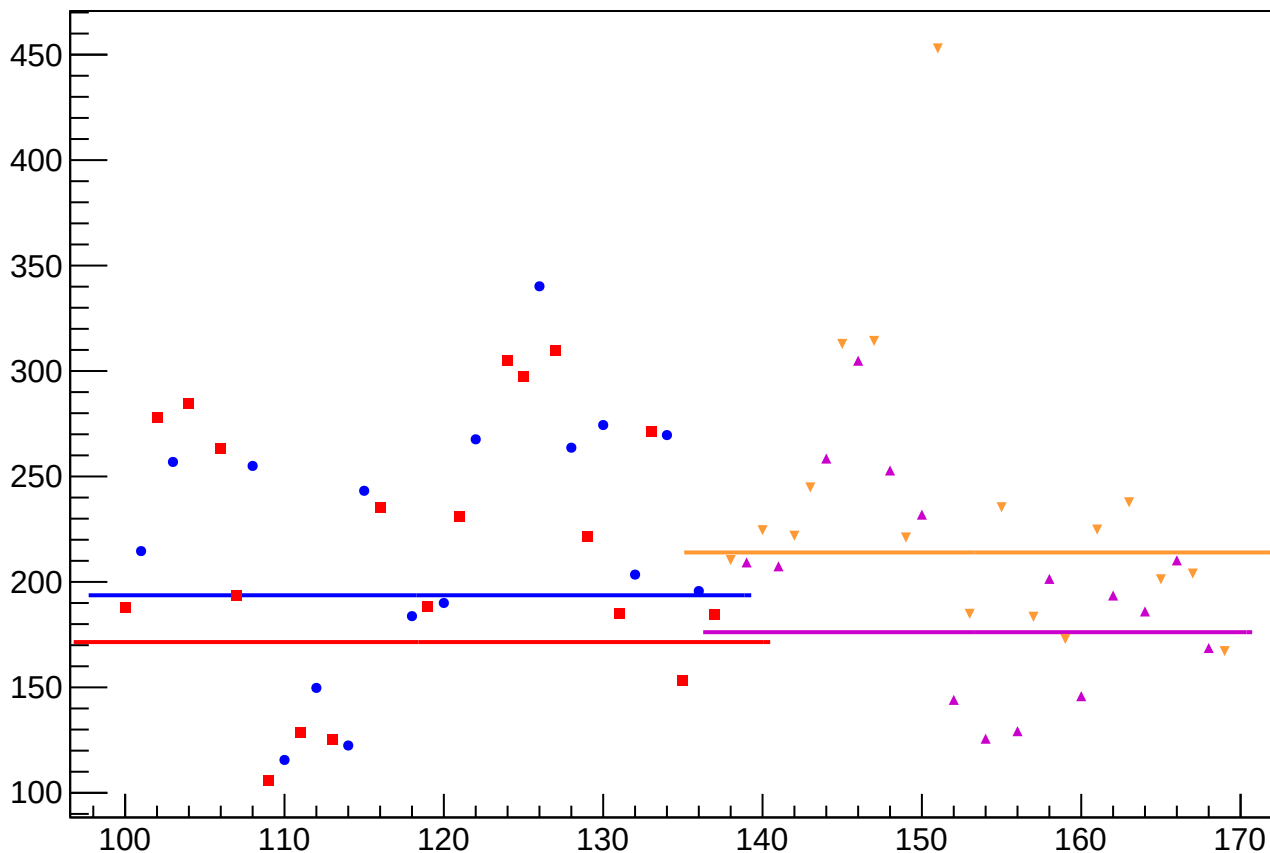
Right: -98.171 ± 50.756 $\chi^2/\text{NDF}: 29.5/34$

In: 66.442 ± 43.542 $\chi^2/\text{NDF}: 24.4/30$

Out: 10.714 ± 45.269 $\chi^2/\text{NDF}: 29.5/35$

All: 39.661 ± 31.381 $\chi^2/\text{NDF}: 54.7/66$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 193.670 $\pm$ 0.054 χ^2 /NDF: 1049772.0/15

Left Out: 213.981 $\pm$ 0.043 χ^2 /NDF:1141950.3/16

Right Out: 171.484 $\pm$ 0.048 χ^2 /NDF: 1652989.7/18

Left In: 176.165 $\pm$ 0.038 χ^2 /NDF:1495824.1/14

Left: 192.577 $\pm$ 0.028 χ^2 /NDF: 3078449.7/31

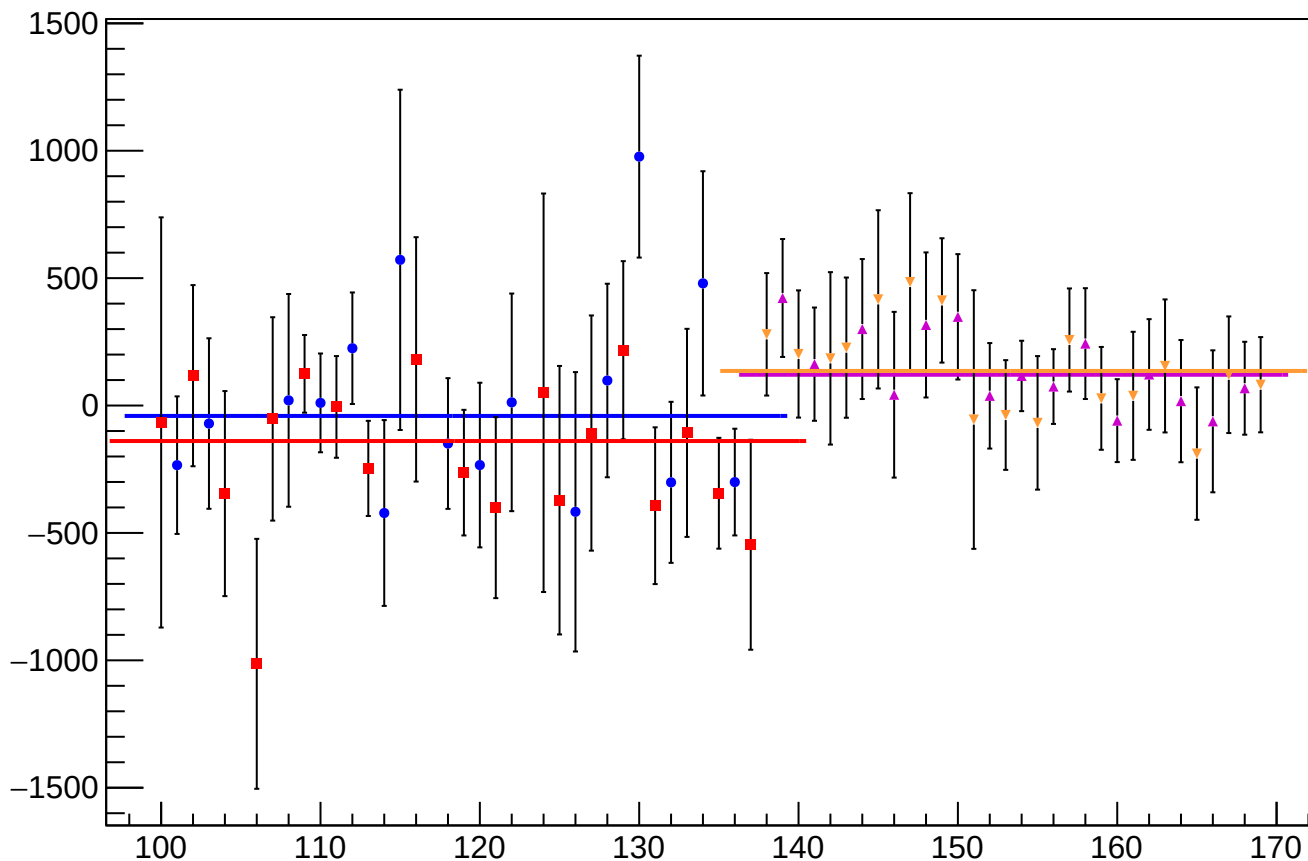
Right: 181.339 $\pm$ 0.036 χ^2 /NDF: 2797109.1/34

In: 181.888 $\pm$ 0.031 χ^2 /NDF:2616720.8/30

Out: 195.191 $\pm$ 0.032 χ^2 /NDF:3229683.9/35

All: 188.281 $\pm$ 0.022 χ^2 /NDF: 5936129.4/66

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -40.798 ± 76.579 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 135.771 ± 60.799 $\chi^2/\text{NDF}: 7.3/16$

Right Out: -139.292 ± 68.459 $\chi^2/\text{NDF}: 12.9/18$

Left In: 120.824 ± 53.210 $\chi^2/\text{NDF}: 6.0/14$

Left: 127.307 ± 40.041 $\chi^2/\text{NDF}: 13.4/31$

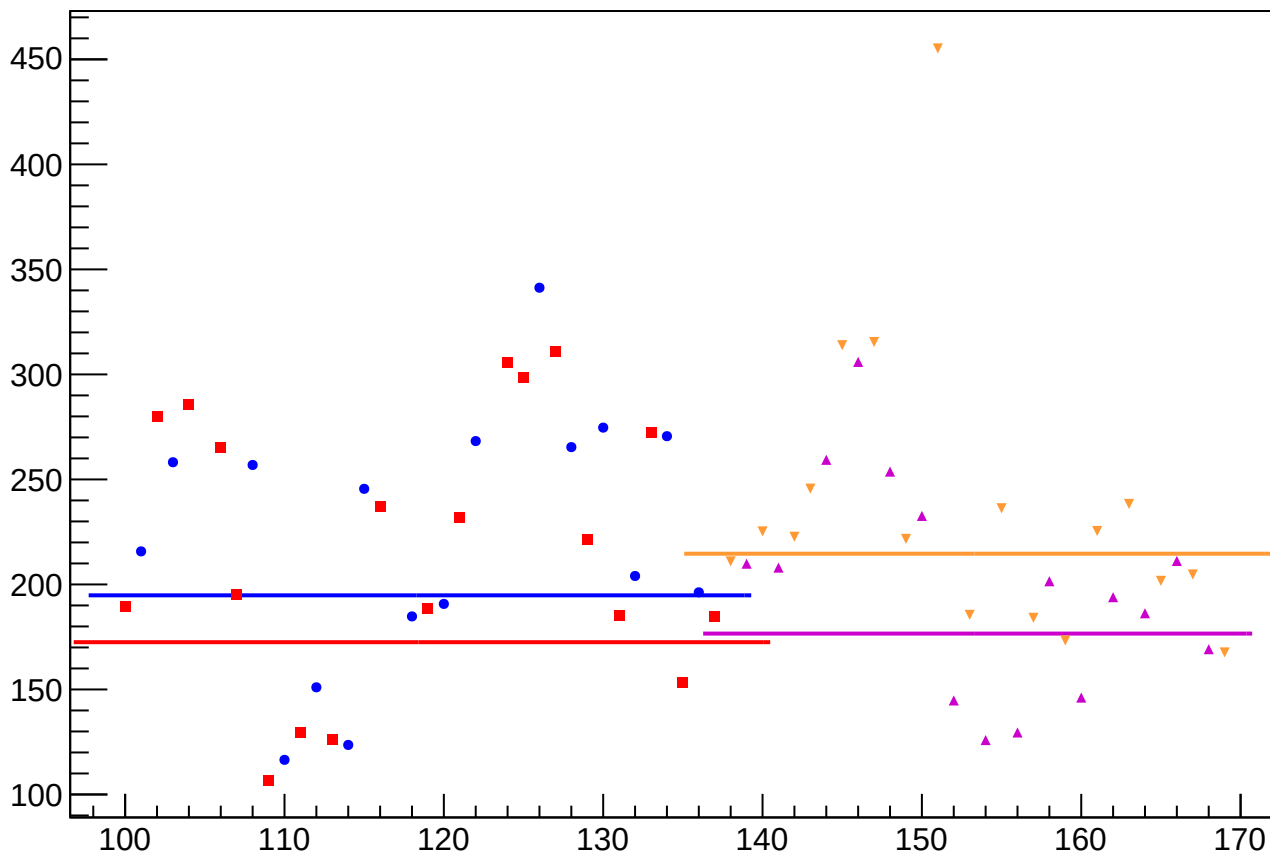
Right: -95.542 ± 51.038 $\chi^2/\text{NDF}: 29.2/34$

In: 68.200 ± 43.697 $\chi^2/\text{NDF}: 24.4/30$

Out: 14.485 ± 45.459 $\chi^2/\text{NDF}: 29.2/35$

All: 42.404 ± 31.503 $\chi^2/\text{NDF}: 54.4/66$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 194.819+/-0.054 χ^2/NDF : 1039096.7/15

Left Out: 214.633+/-0.043 χ^2/NDF :1144673.9/16

Right Out: 172.507+/-0.048 χ^2/NDF : 1642059.1/18

Left In: 176.603+/-0.038 χ^2/NDF :1499008.6/14

Left: 193.098+/-0.028 χ^2/NDF : 3086796.3/31

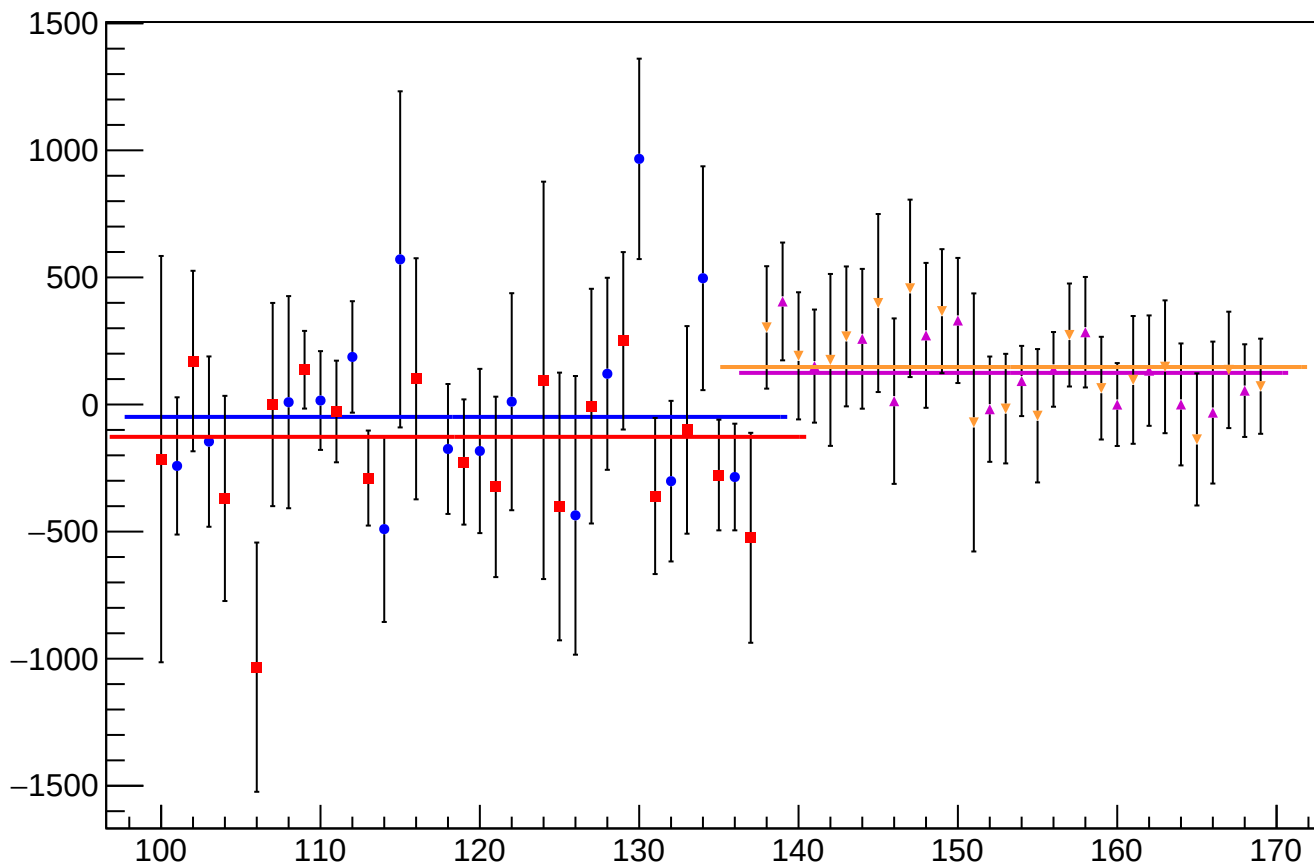
Right: 182.418+/-0.036 χ^2/NDF : 2775527.6/34

In: 182.535+/-0.031 χ^2/NDF :2614425.4/30

Out: 196.058+/-0.032 χ^2/NDF :3210116.6/35

All: 189.029+/-0.022 χ^2/NDF : 5916536.2/66

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -48.749+/-76.592 χ^2/NDF : 15.4/15

Left Out: 147.522+/-60.856 χ^2/NDF : 6.0/16

Right Out: -127.249+/-68.506 χ^2/NDF : 12.9/18

Left In: 124.416+/-53.256 χ^2/NDF : 5.2/14

Left: 134.437+/-40.077 χ^2/NDF : 11.3/31

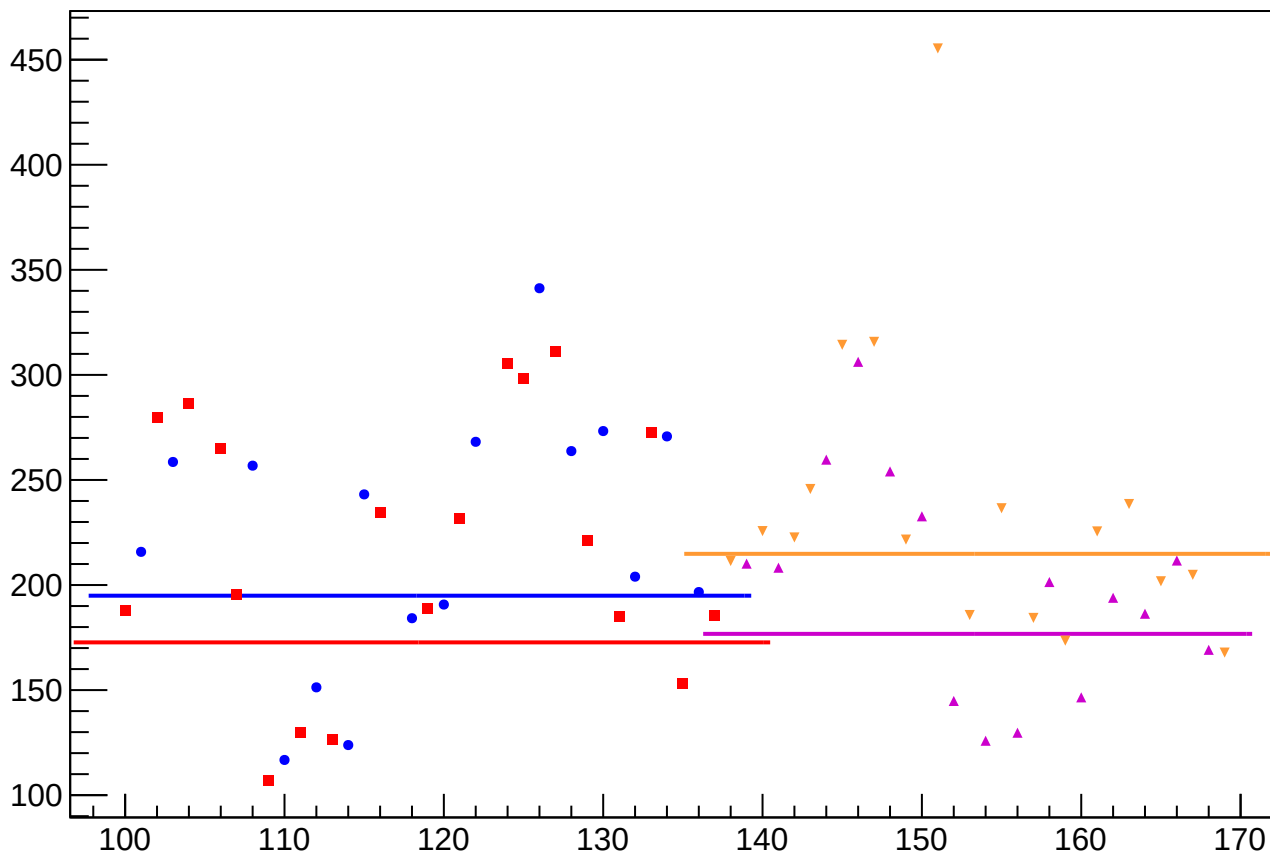
Right: -92.360+/-51.061 χ^2/NDF : 28.9/34

In: 67.980+/-43.725 χ^2/NDF : 24.1/30

Out: 26.328+/-45.497 χ^2/NDF : 27.9/35

All: 47.981+/-31.526 χ^2/NDF : 52.4/66

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 194.923+/-0.054 χ^2/NDF : 1028901.2/15

Left Out: 214.843+/-0.043 χ^2/NDF : 1143392.5/16

Right Out: 172.704+/-0.048 χ^2/NDF : 1631350.4/18

Left In: 176.758+/-0.038 χ^2/NDF : 1498764.8/14

Left: 193.275+/-0.028 χ^2/NDF : 3085747.3/31

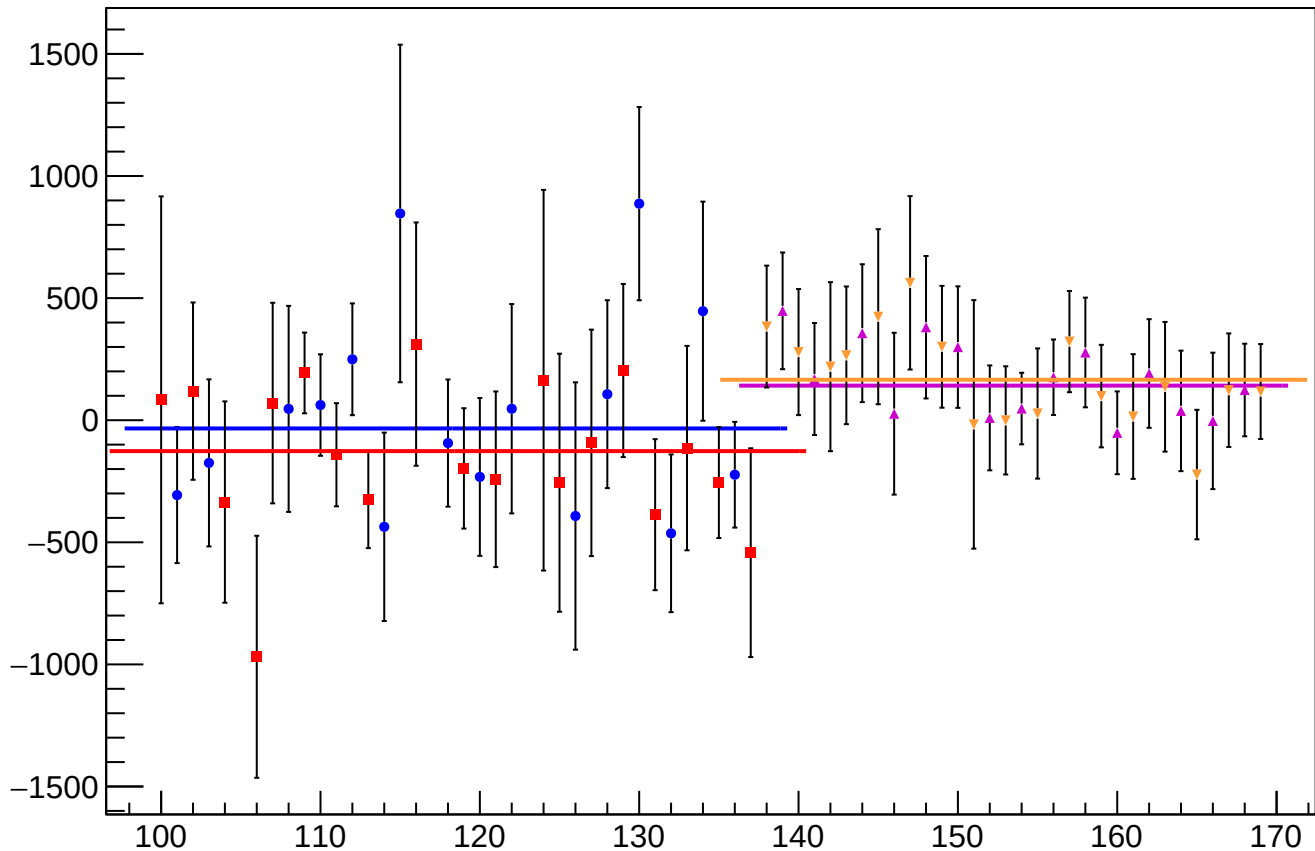
Right: 182.579+/-0.036 χ^2/NDF : 2753755.7/34

In: 182.678+/-0.031 χ^2/NDF : 2603497.9/30

Out: 196.256+/-0.032 χ^2/NDF : 3197697.7/35

All: 189.198+/-0.022 χ^2/NDF : 5893806.7/66

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -33.731 ± 78.996 χ^2/NDF : 15.7/15

Left Out: 165.714 ± 62.408 χ^2/NDF : 7.4/16

Right Out: -126.563 ± 71.309 χ^2/NDF : 12.7/18

Left In: 141.651 ± 55.215 χ^2/NDF : 6.4/14

Left: 152.216 ± 41.353 χ^2/NDF : 13.9/31

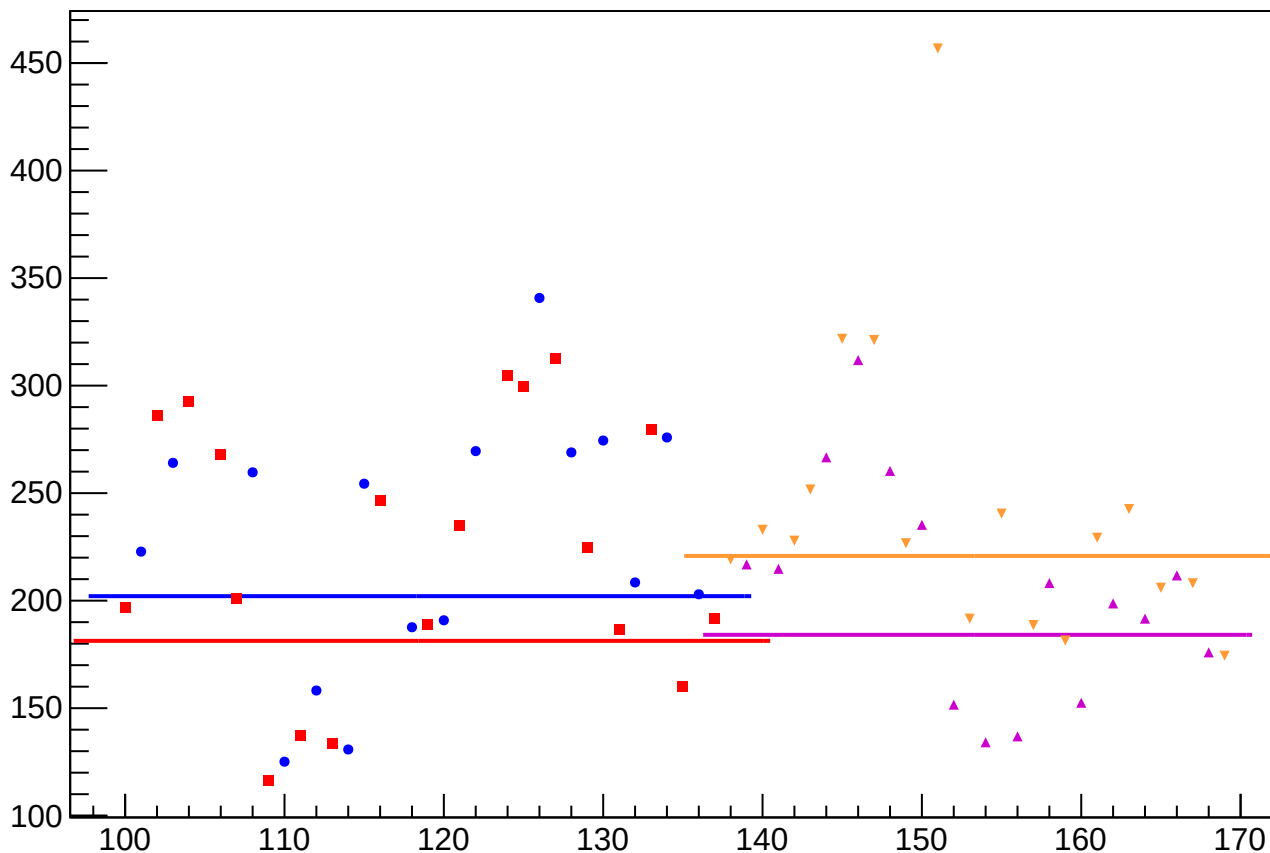
Right: -84.882 ± 52.933 χ^2/NDF : 29.2/34

In: 84.089 ± 45.256 χ^2/NDF : 25.5/30

Out: 38.945 ± 46.963 χ^2/NDF : 29.6/35

All: 62.352 ± 32.588 χ^2/NDF : 55.6/66

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 202.090 $\pm$ 0.056 χ^2 /NDF: 910259.2/15

Left Out: 220.794 $\pm$ 0.044 χ^2 /NDF: 1085082.5/16

Right Out: 181.312 $\pm$ 0.050 χ^2 /NDF: 1440989.4/18

Left In: 184.109 $\pm$ 0.039 χ^2 /NDF: 1353587.5/14

Left: 200.217 $\pm$ 0.029 χ^2 /NDF: 2826307.6/31

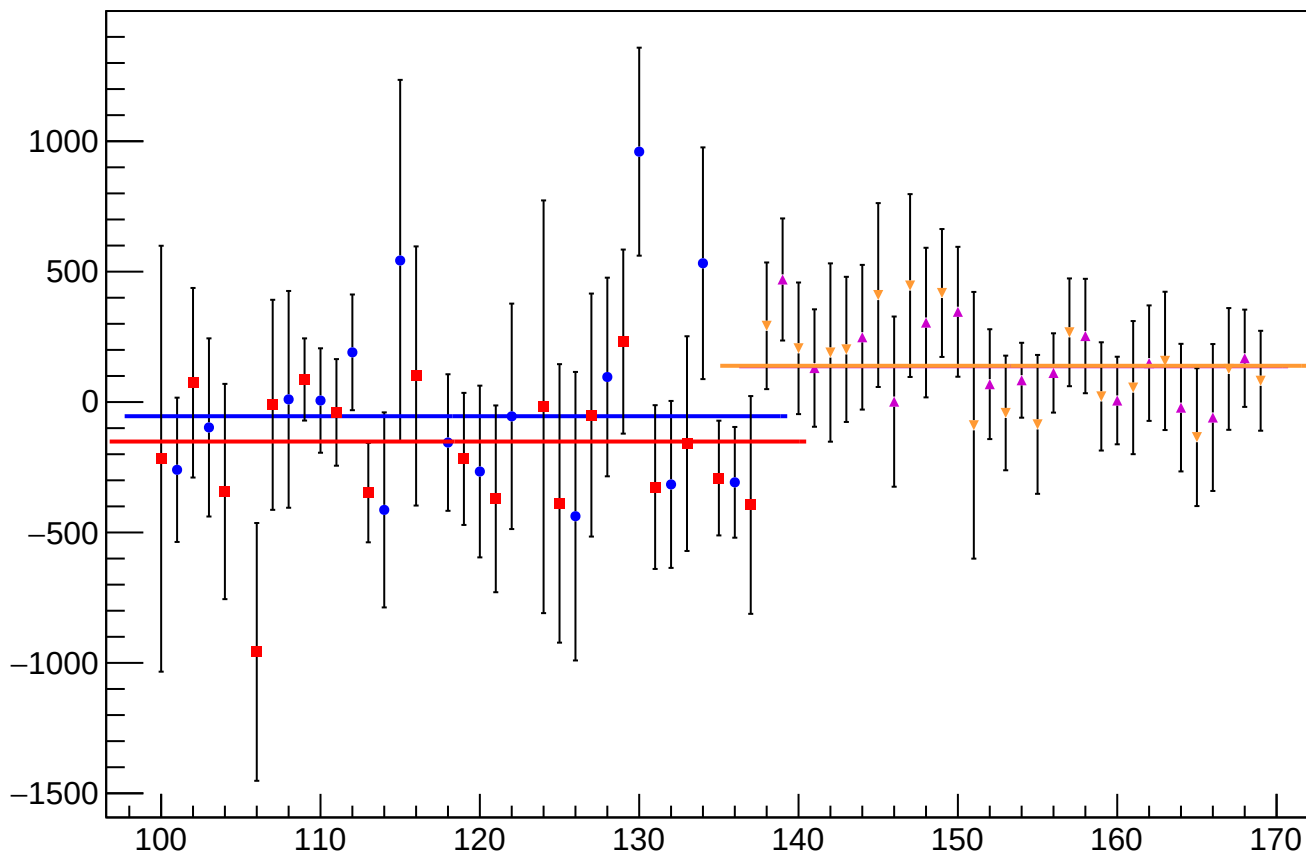
Right: 190.641 $\pm$ 0.037 χ^2 /NDF: 2427488.6/34

In: 190.011 $\pm$ 0.032 χ^2 /NDF: 2333456.8/30

Out: 203.670 $\pm$ 0.033 χ^2 /NDF: 2873260.1/35

All: 196.588 $\pm$ 0.023 χ^2 /NDF: 5294438.8/66

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -54.254 +/- 77.946 χ^2/NDF : 15.1/15

Left Out: 139.072 +/- 61.806 χ^2/NDF : 6.8/16

Right Out: -151.358 +/- 69.902 χ^2/NDF : 10.2/18

Left In: 137.277 +/- 54.413 χ^2/NDF : 5.5/14

Left: 138.061 +/- 40.841 χ^2/NDF : 12.3/31

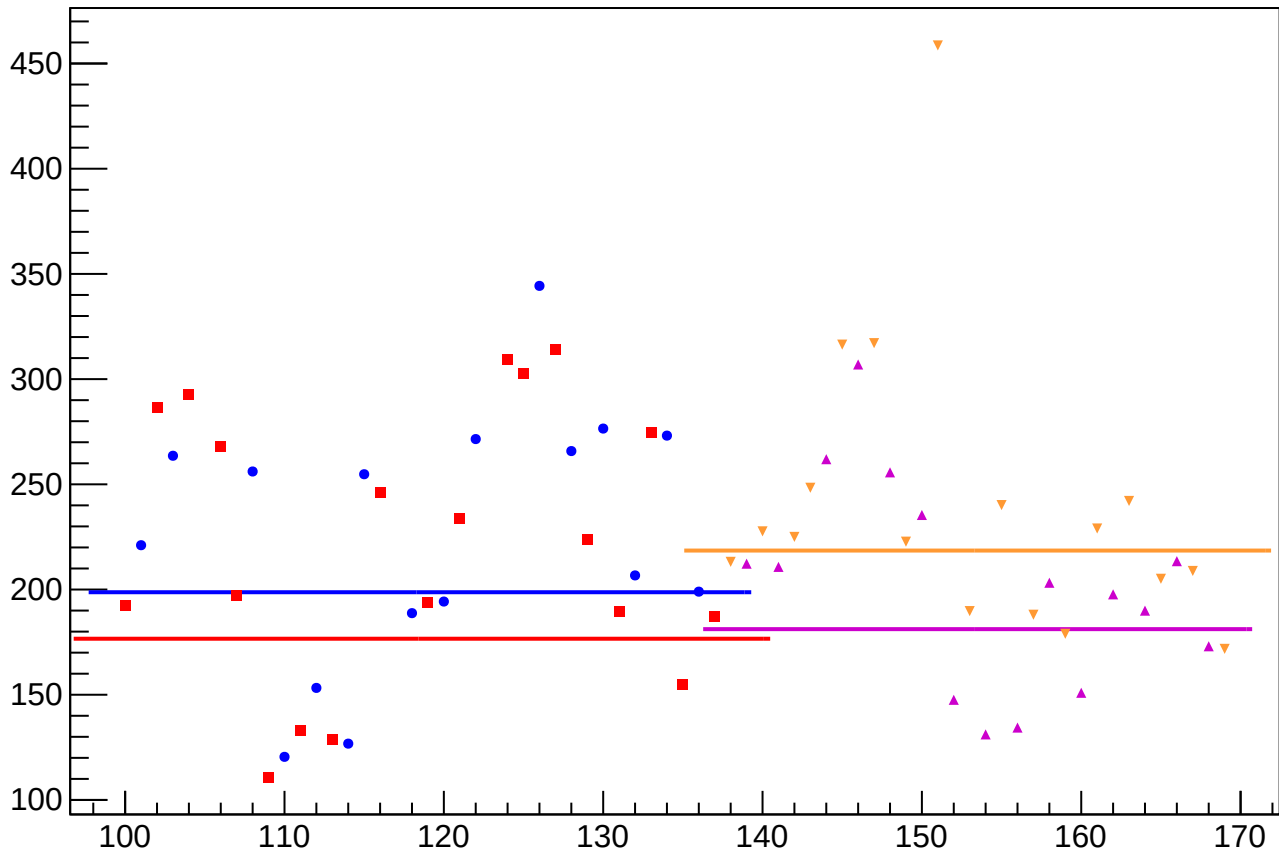
Right: -108.074 +/- 52.040 χ^2/NDF : 26.2/34

In: 74.521 +/- 44.617 χ^2/NDF : 24.6/30

Out: 11.642 +/- 46.302 χ^2/NDF : 26.7/35

All: 44.246 +/- 32.128 χ^2/NDF : 52.3/66

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 198.718 ± 0.055 $\chi^2/\text{NDF}: 994068.9/15$

Left Out: 218.527 ± 0.044 $\chi^2/\text{NDF}: 1091788.9/16$

Right Out: 176.621 ± 0.049 $\chi^2/\text{NDF}: 1595710.1/18$

Left In: 181.178 ± 0.038 $\chi^2/\text{NDF}: 1378720.3/14$

Left: 197.487 ± 0.029 $\chi^2/\text{NDF}: 2881948.2/31$

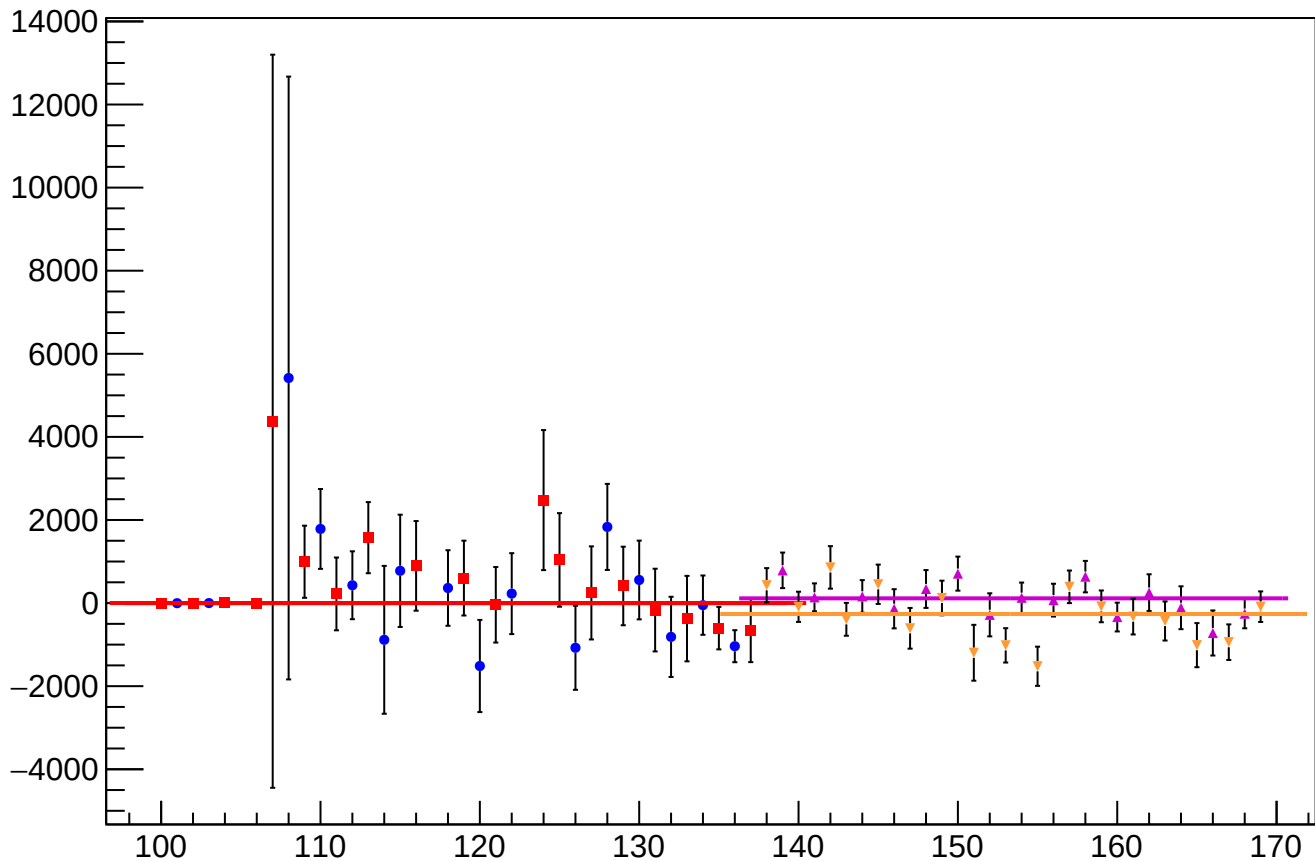
Right: 186.471 ± 0.037 $\chi^2/\text{NDF}: 2678866.0/34$

In: 186.925 ± 0.032 $\chi^2/\text{NDF}: 2440881.5/30$

Out: 200.140 ± 0.033 $\chi^2/\text{NDF}: 3090910.7/35$

All: 193.288 ± 0.023 $\chi^2/\text{NDF}: 5616268.2/66$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.239 ± 2.171 χ^2/NDF : 19.9/15

Left Out: -262.443 ± 105.255 χ^2/NDF : 31.9/16

Right Out: 1.377 ± 2.022 χ^2/NDF : 16.8/18

Left In: 113.889 ± 105.786 χ^2/NDF : 13.1/14

Left: -75.224 ± 74.614 χ^2/NDF : 51.3/31

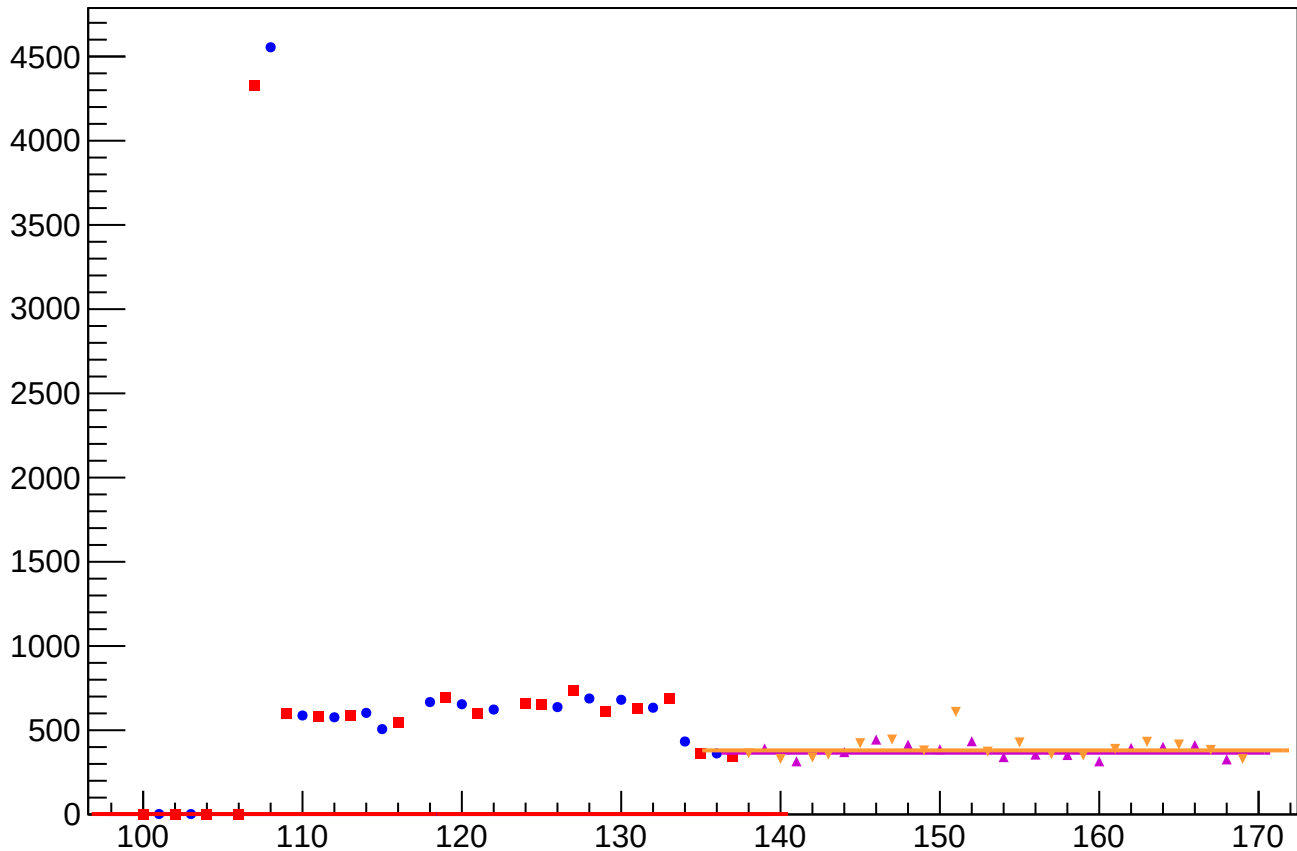
Right: 0.162 ± 1.480 χ^2/NDF : 37.5/34

In: -1.190 ± 2.170 χ^2/NDF : 34.2/30

Out: 1.280 ± 2.022 χ^2/NDF : 55.0/35

All: 0.132 ± 1.479 χ^2/NDF : 89.9/66

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.477 $\pm$ 0.002 χ^2 /NDF: 11626192.3/15

Left Out: 380.351 $\pm$ 0.074 χ^2 /NDF: 456144.4/16

Right Out: 2.462 $\pm$ 0.001 χ^2 /NDF: 11545445.6/18

Left In: 366.552 $\pm$ 0.075 χ^2 /NDF: 284134.0/14

Left: 373.486 $\pm$ 0.053 χ^2 /NDF: 757377.7/31

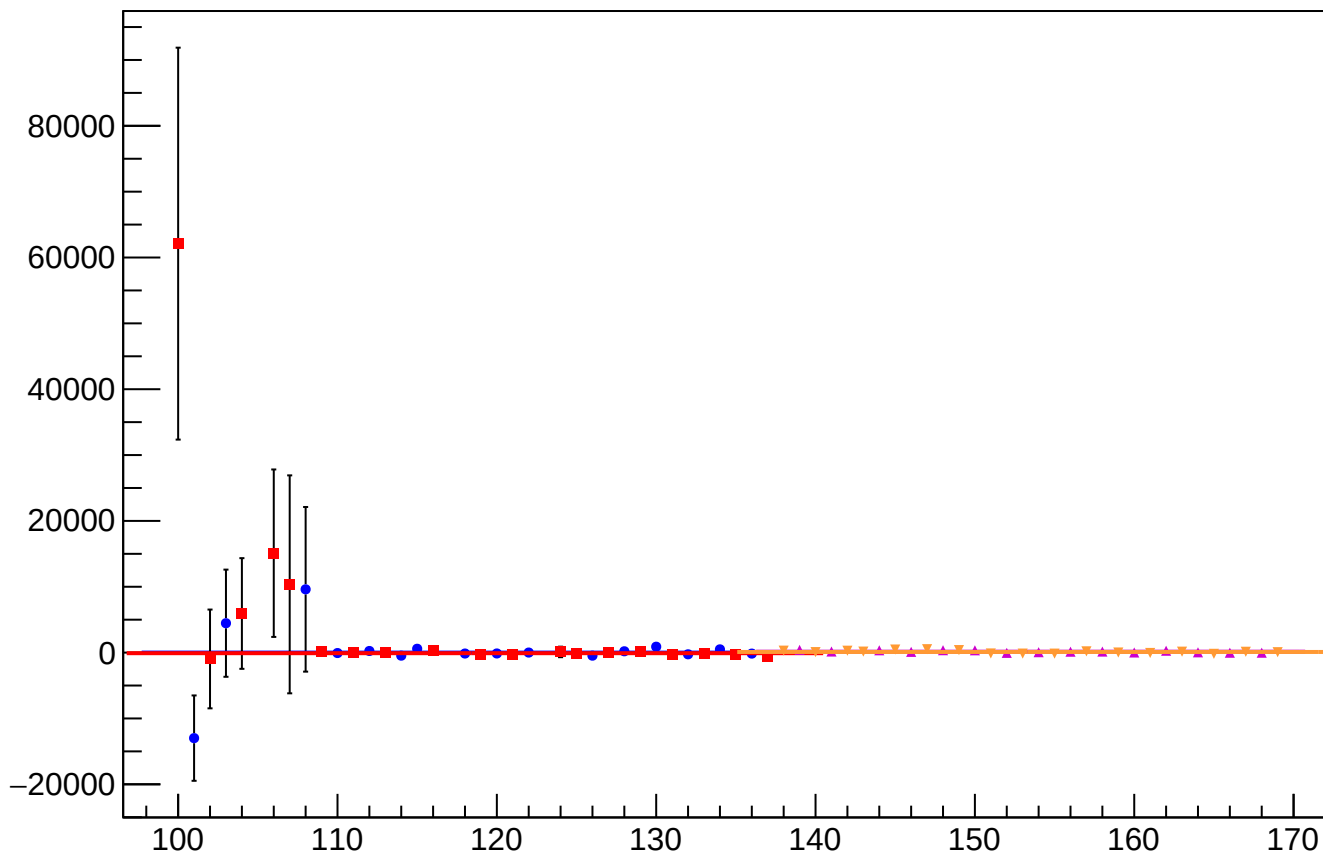
Right: 2.469 $\pm$ 0.001 χ^2 /NDF: 23171686.0/34

In: 2.630 $\pm$ 0.002 χ^2 /NDF: 35589736.2/30

Out: 2.602 $\pm$ 0.001 χ^2 /NDF: 37771316.7/35

All: 2.615 $\pm$ 0.001 χ^2 /NDF: 73361235.2/66

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 0.575 ± 87.823 $\chi^2/\text{NDF}: 16.8/15$

Left Out: 97.619 ± 64.436 $\chi^2/\text{NDF}: 8.3/16$

Right Out: -88.089 ± 81.605 $\chi^2/\text{NDF}: 14.9/18$

Left In: 137.333 ± 57.916 $\chi^2/\text{NDF}: 5.9/14$

Left: 119.586 ± 43.074 $\chi^2/\text{NDF}: 14.4/31$

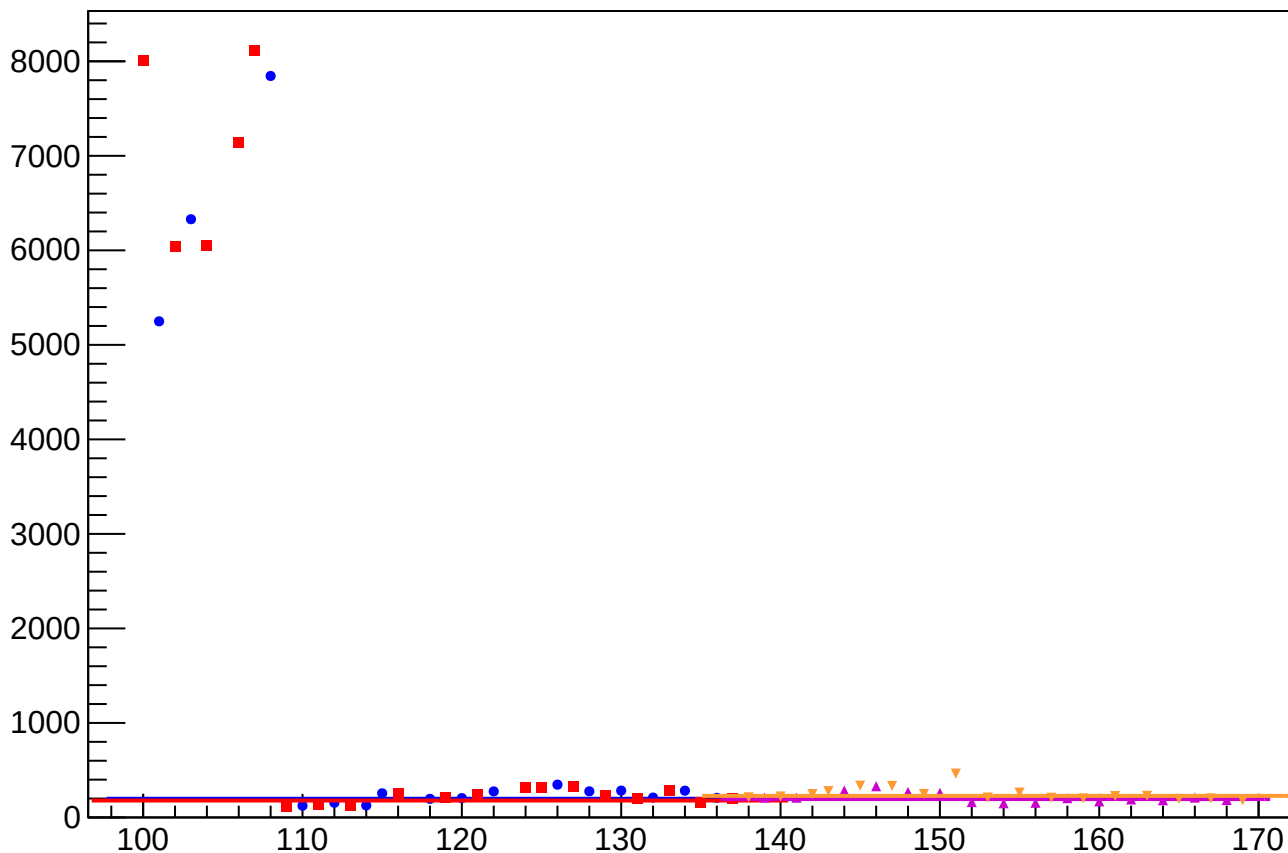
Right: -47.007 ± 59.781 $\chi^2/\text{NDF}: 32.3/34$

In: 95.884 ± 48.349 $\chi^2/\text{NDF}: 24.4/30$

Out: 26.300 ± 50.571 $\chi^2/\text{NDF}: 26.4/35$

All: 62.654 ± 34.947 $\chi^2/\text{NDF}: 51.8/66$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 197.620+/-0.062 χ^2/NDF : 3957192.6/15

Left Out: 228.271+/-0.046 χ^2/NDF : 1075634.3/16

Right Out: 179.250+/-0.058 χ^2/NDF : 4418422.9/18

Left In: 194.450+/-0.041 χ^2/NDF : 1081848.4/14

Left: 209.564+/-0.030 χ^2/NDF : 2462243.1/31

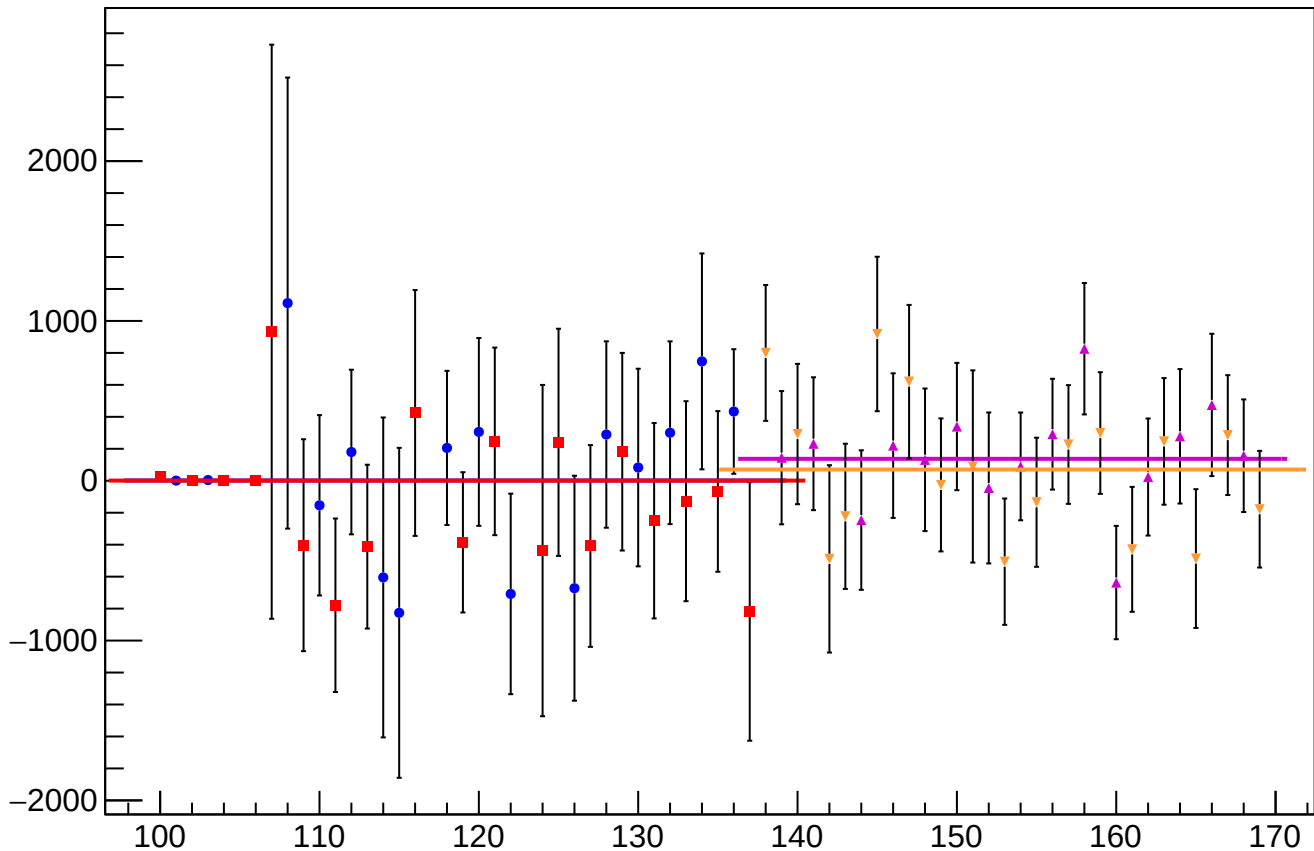
Right: 187.761+/-0.042 χ^2/NDF : 8422574.8/34

In: 195.411+/-0.034 χ^2/NDF : 5040856.1/30

Out: 209.445+/-0.036 χ^2/NDF : 5938599.1/35

All: 202.113+/-0.025 χ^2/NDF : 11059921.9/66

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: 1.456 $\pm$ 1.660 χ^2 /NDF: 7.9/15

Left Out: 70.088 $\pm$ 102.504 χ^2 /NDF:16.2/16

Right Out: 1.094 $\pm$ 1.528 χ^2 /NDF: 9.2/18

Left In: 137.208 $\pm$ 102.766 χ^2 /NDF:9.8/14

Left: 103.563 $\pm$ 72.574 χ^2 /NDF: 26.2/31

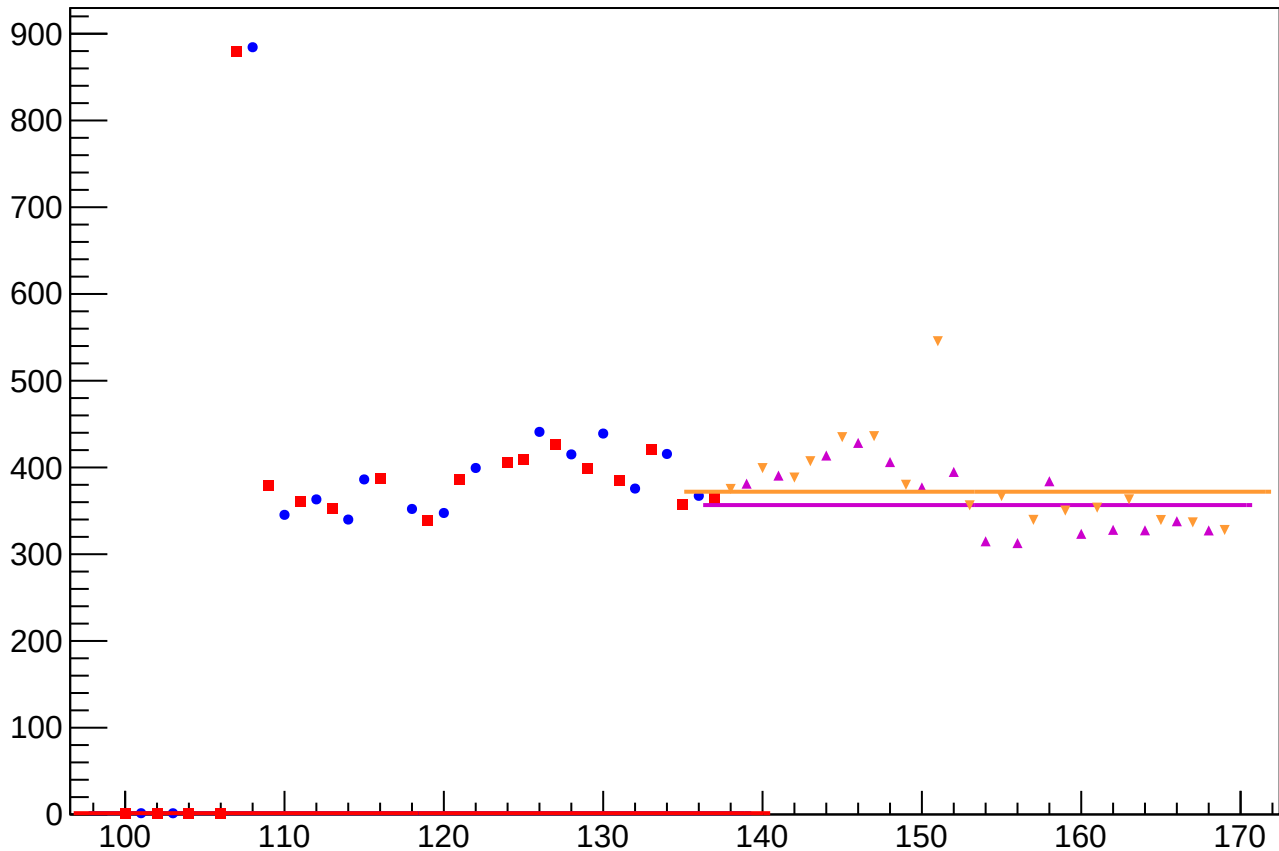
Right: 1.260 $\pm$ 1.124 χ^2 /NDF: 17.1/34

In: 1.491 $\pm$ 1.660 χ^2 /NDF:19.5/30

Out: 1.109 $\pm$ 1.528 χ^2 /NDF:25.8/35

All: 1.284 $\pm$ 1.124 χ^2 /NDF: 45.3/66

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.470 $\pm$ 0.001 χ^2 /NDF: 11735334.0/15

Left Out: 372.045 $\pm$ 0.072 χ^2 /NDF: 346993.5/16

Right Out: 1.467 $\pm$ 0.001 χ^2 /NDF: 11270430.6/18

Left In: 356.646 $\pm$ 0.073 χ^2 /NDF: 275820.9/14

Left: 364.365 $\pm$ 0.051 χ^2 /NDF: 645323.4/31

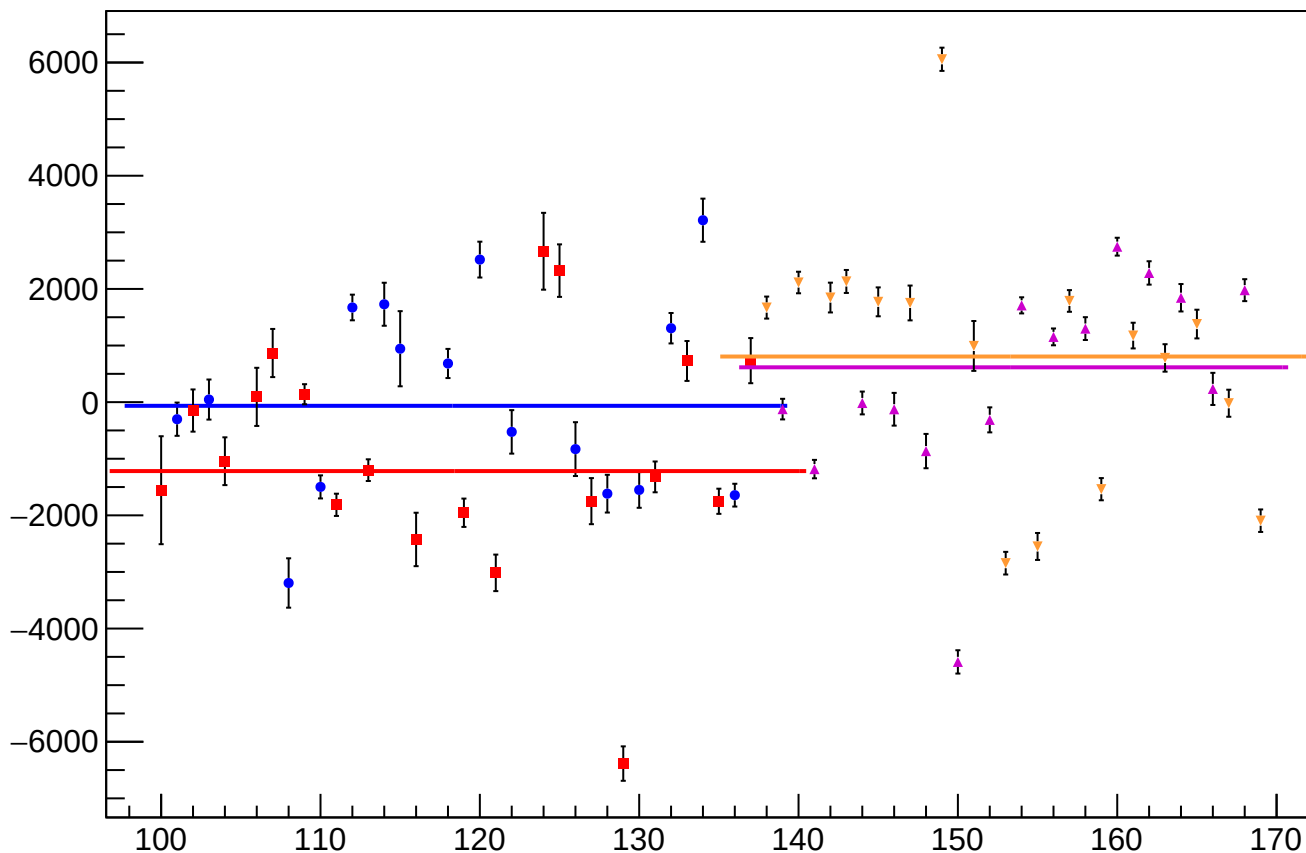
Right: 1.469 $\pm$ 0.001 χ^2 /NDF: 23005768.2/34

In: 1.563 $\pm$ 0.001 χ^2 /NDF: 35894984.8/30

Out: 1.549 $\pm$ 0.001 χ^2 /NDF: 37751503.9/35

All: 1.556 $\pm$ 0.001 χ^2 /NDF: 73646559.3/66

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: -64.993 ± 74.895 χ^2/NDF : 469.5/15

Left Out: 805.823 ± 54.388 χ^2/NDF : 1737.1/16

Right Out: -1217.846 ± 69.022 χ^2/NDF : 594.6/18

Left In: 615.228 ± 50.109 χ^2/NDF : 1242.8/14

Left: 702.735 ± 36.852 χ^2/NDF : 2986.6/31

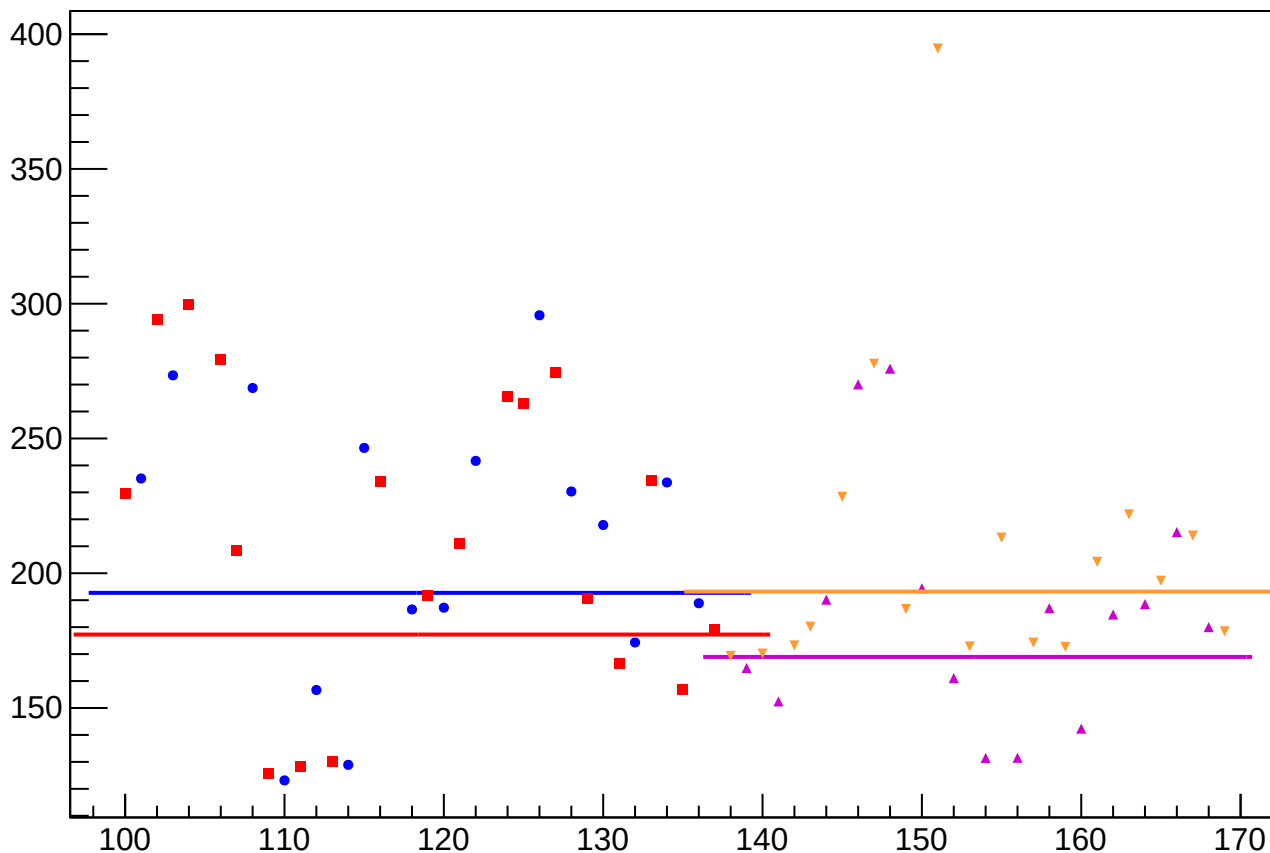
Right: -688.385 ± 50.755 χ^2/NDF : 1192.2/34

In: 404.890 ± 41.647 χ^2/NDF : 1769.3/30

Out: 30.633 ± 42.719 χ^2/NDF : 2862.1/35

All: 222.516 ± 29.821 χ^2/NDF : 4670.7/66

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 192.719 ± 0.053 $\chi^2/\text{NDF}: 759146.3/15$

Left Out: 193.193 ± 0.038 $\chi^2/\text{NDF}: 823876.5/16$

Right Out: 177.251 ± 0.049 $\chi^2/\text{NDF}: 1226180.2/18$

Left In: 168.949 ± 0.035 $\chi^2/\text{NDF}: 992996.5/14$

Left: 180.080 ± 0.026 $\chi^2/\text{NDF}: 2031832.5/31$

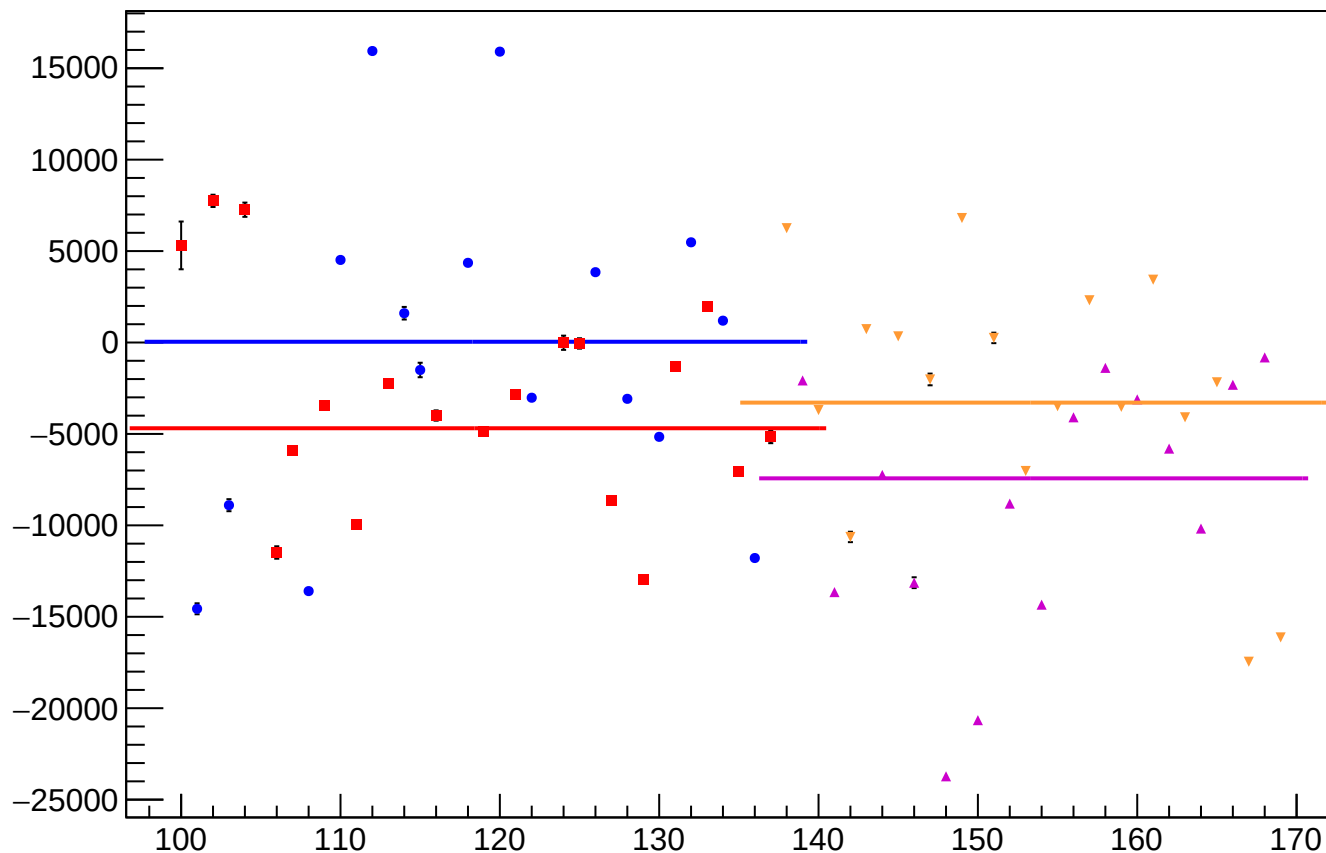
Right: 184.355 ± 0.036 $\chi^2/\text{NDF}: 2031455.3/34$

In: 176.299 ± 0.029 $\chi^2/\text{NDF}: 1891310.9/30$

Out: 187.087 ± 0.030 $\chi^2/\text{NDF}: 2115880.3/35$

All: 181.556 ± 0.021 $\chi^2/\text{NDF}: 4072579.1/66$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 40.915 $\pm$ 54.199 χ^2/NDF : 30786.3/15

Left Out: -3287.074 $\pm$ 47.001 χ^2/NDF : 20109.9/16

Right Out: -4689.710 $\pm$ 52.095 χ^2/NDF : 7795.7/18

Left In: -7429.273 $\pm$ 49.502 χ^2/NDF : 16829.8/14

Left: -5250.889 $\pm$ 34.085 χ^2/NDF : 40622.0/31

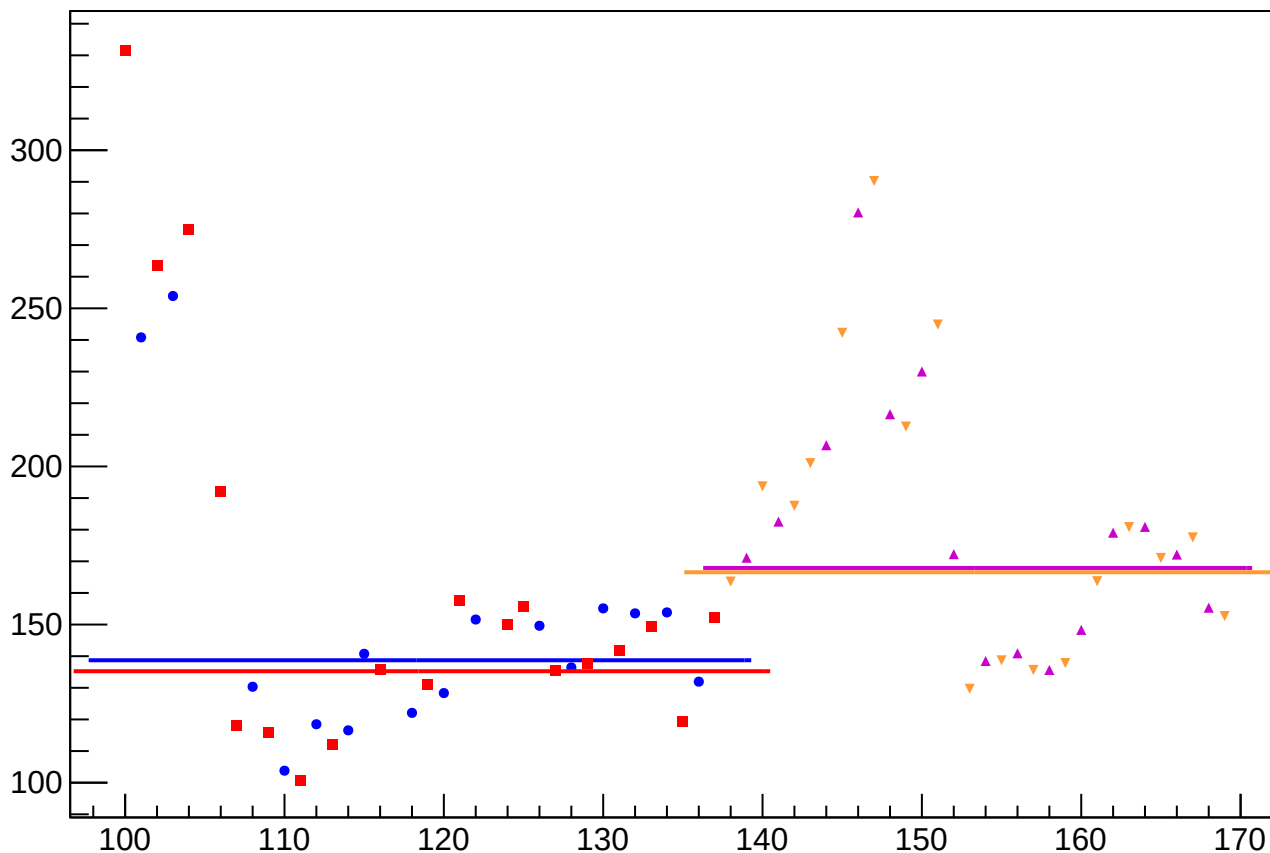
Right: -2417.983 $\pm$ 37.558 χ^2/NDF : 42541.9/34

In: -4031.808 $\pm$ 36.551 χ^2/NDF : 57973.3/30

Out: -3916.479 $\pm$ 34.897 χ^2/NDF : 28305.2/35

All: -3971.475 $\pm$ 25.240 χ^2/NDF : 86283.7/66

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 138.712 $\pm$ 0.038 χ^2 /NDF: 657791.3/15

Left Out: 166.540 $\pm$ 0.033 χ^2 /NDF: 1157258.3/16

Right Out: 135.245 $\pm$ 0.037 χ^2 /NDF: 890024.8/18

Left In: 167.897 $\pm$ 0.035 χ^2 /NDF: 858469.1/14

Left: 167.184 $\pm$ 0.024 χ^2 /NDF: 2016518.2/31

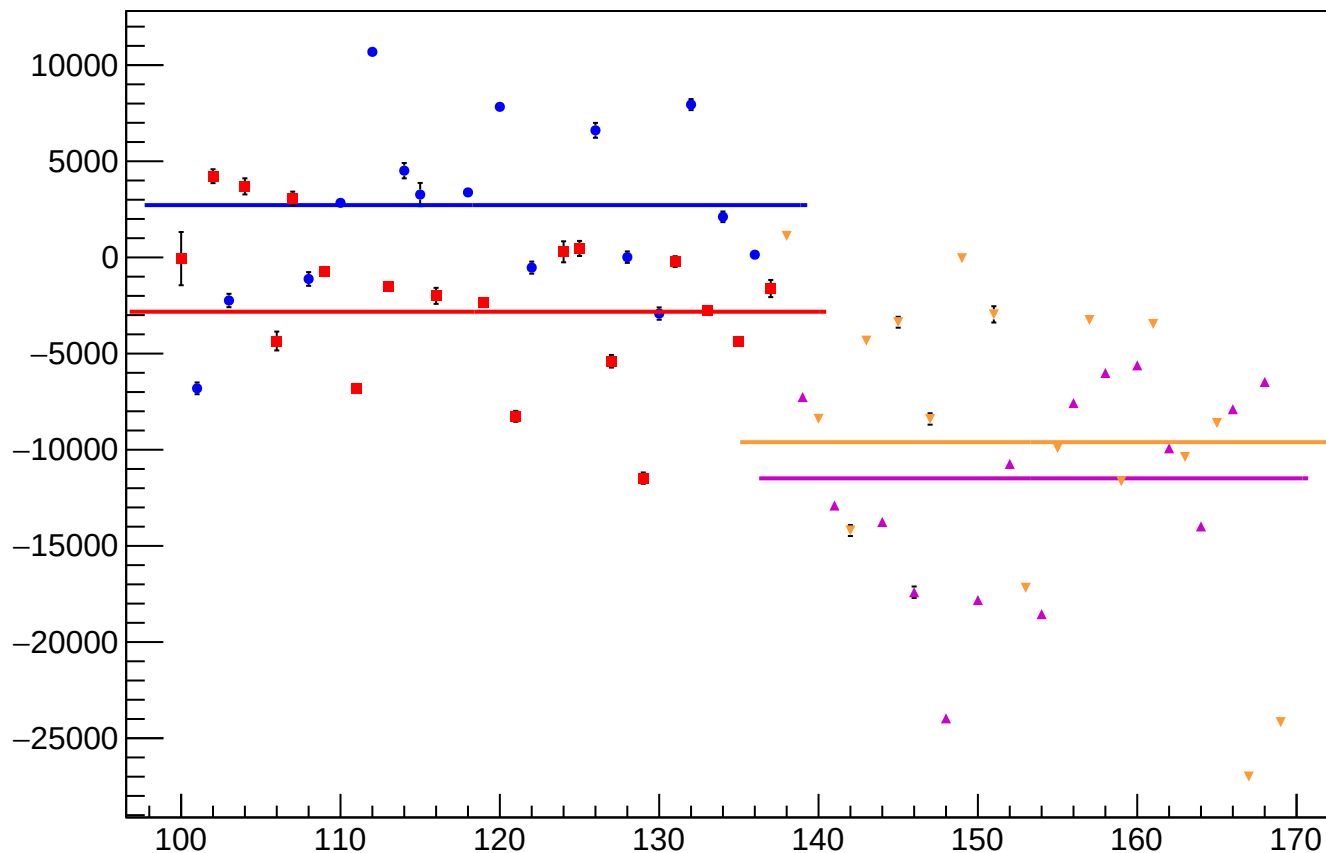
Right: 136.910 $\pm$ 0.027 χ^2 /NDF: 1552069.4/34

In: 154.624 $\pm$ 0.026 χ^2 /NDF: 1832443.5/30

Out: 152.497 $\pm$ 0.025 χ^2 /NDF: 2445158.4/35

All: 153.511 $\pm$ 0.018 χ^2 /NDF: 4281144.0/66

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2719.896 $\pm$ 69.247 χ^2 /NDF: 4129.3/15

Left Out: -9605.541 $\pm$ 55.181 χ^2 /NDF:21589.0/16

Right Out: -2823.679 $\pm$ 64.850 χ^2 /NDF: 3062.8/18

Left In: -11487.301 $\pm$ 52.003 χ^2 /NDF:10196.1/14

Left: -10602.178 $\pm$ 37.845 χ^2 /NDF: 32401.0/31

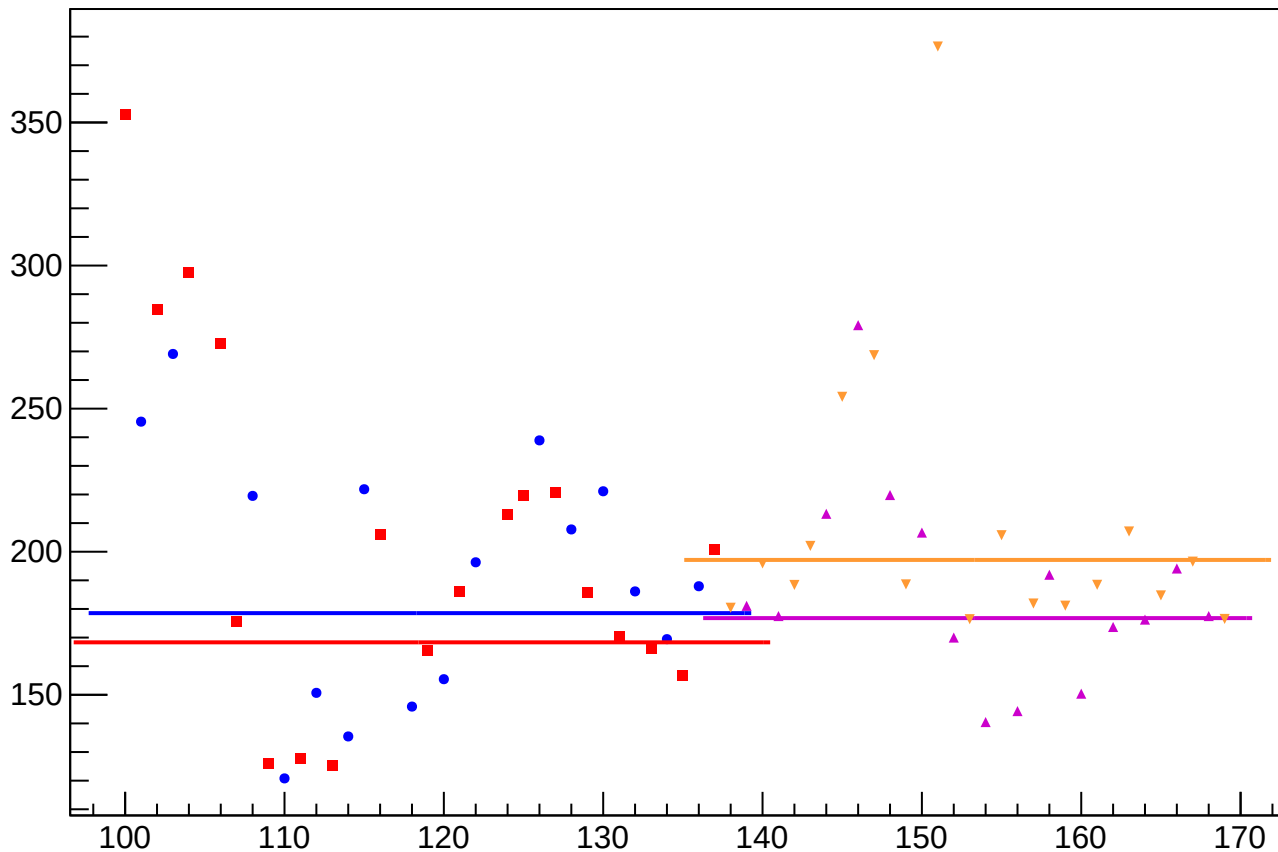
Right: -233.460 $\pm$ 47.334 χ^2 /NDF: 10606.3/34

In: -6364.196 $\pm$ 41.583 χ^2 /NDF:41240.0/30

Out: -6757.374 $\pm$ 42.026 χ^2 /NDF:30995.2/35

All: -6558.700 $\pm$ 29.559 χ^2 /NDF: 72279.5/66

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.541 $\pm$ 0.049 χ^2 /NDF: 674566.0/15

Left Out: 197.135 $\pm$ 0.039 χ^2 /NDF: 657198.8/16

Right Out: 168.335 $\pm$ 0.046 χ^2 /NDF: 979485.9/18

Left In: 176.803 $\pm$ 0.037 χ^2 /NDF: 657411.9/14

Left: 186.367 $\pm$ 0.027 χ^2 /NDF: 1458423.0/31

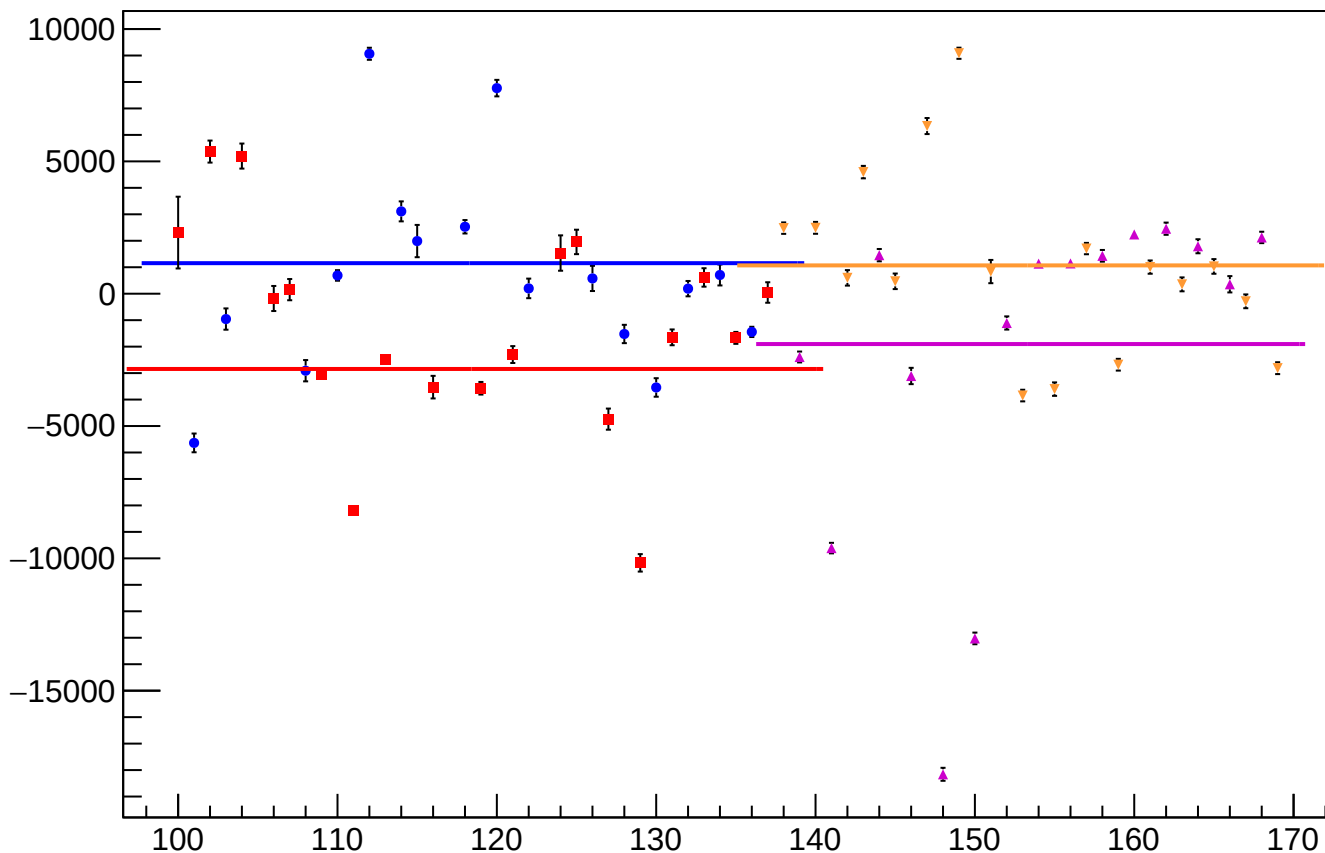
Right: 173.104 $\pm$ 0.033 χ^2 /NDF: 1677198.9/34

In: 177.430 $\pm$ 0.029 χ^2 /NDF: 1332783.6/30

Out: 185.040 $\pm$ 0.030 χ^2 /NDF: 1865490.7/35

All: 181.194 $\pm$ 0.021 χ^2 /NDF: 3231414.0/66

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1153.823+/-75.957 χ^2/NDF : 2655.3/15

Left Out: 1069.753+/-60.079 χ^2/NDF :3524.7/16

Right Out: -2843.895+/-69.139 χ^2/NDF : 2453.1/18

Left In: -1902.537+/-56.350 χ^2/NDF :11001.5/14

Left: -511.475+/-41.101 χ^2/NDF : 15828.3/31

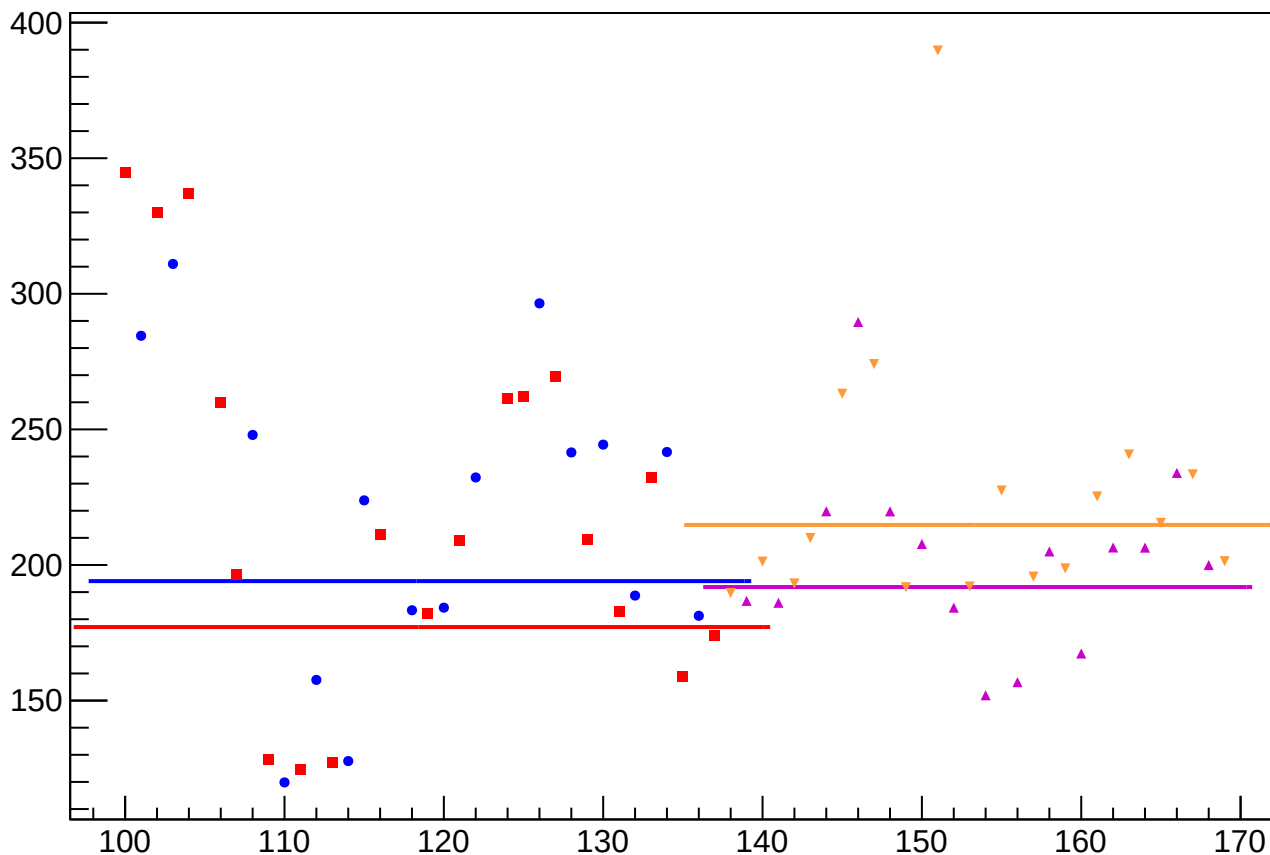
Right: -1032.468+/-51.129 χ^2/NDF : 6623.4/34

In: -817.543+/-45.256 χ^2/NDF :14701.1/30

Out: -614.003+/-45.349 χ^2/NDF :7803.5/35

All: -715.982+/-32.034 χ^2/NDF : 22514.7/66

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.053+/-0.054 χ^2/NDF : 965786.1/15

Left Out: 214.775+/-0.042 χ^2/NDF : 609962.3/16

Right Out: 177.115+/-0.049 χ^2/NDF : 1359345.8/18

Left In: 191.869+/-0.040 χ^2/NDF : 563700.4/14

Left: 202.589+/-0.029 χ^2/NDF : 1328333.1/31

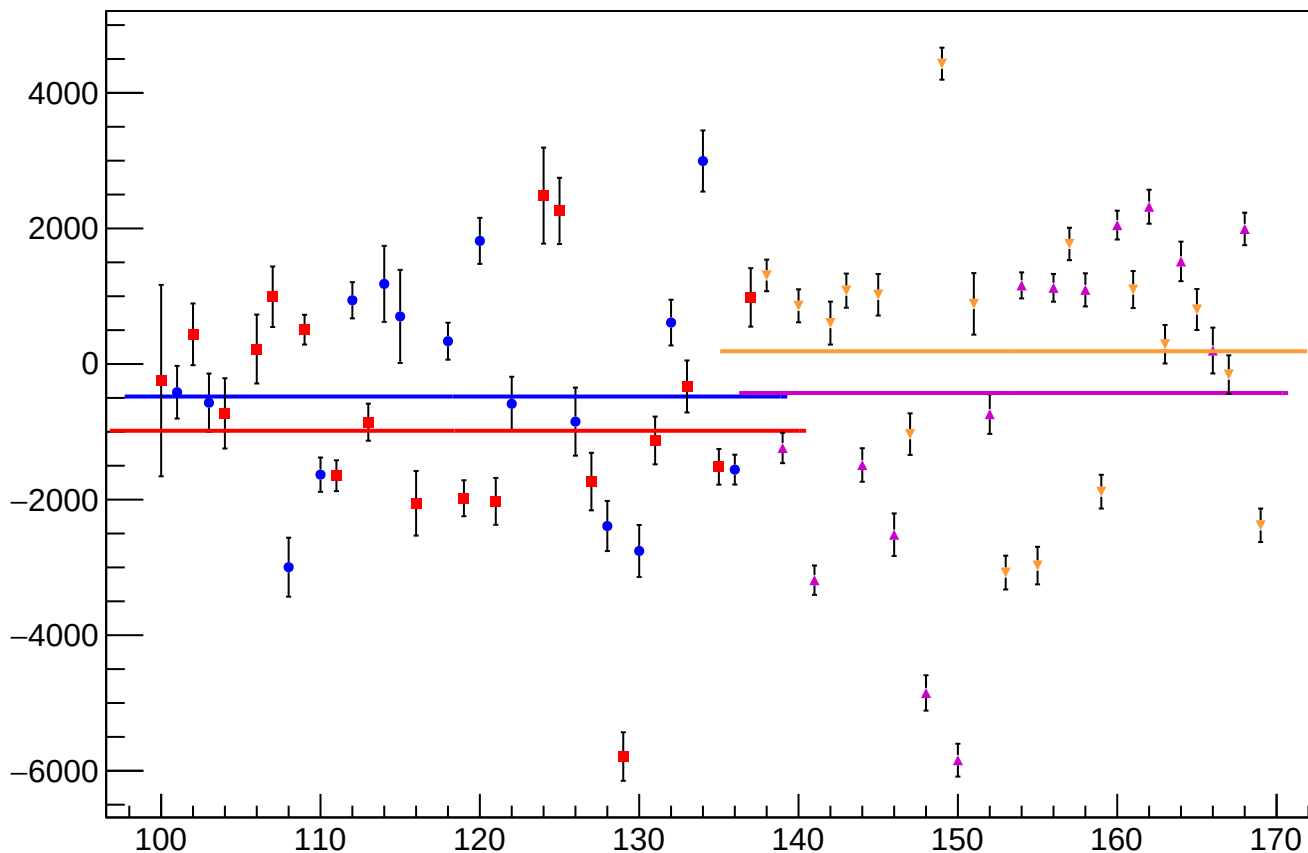
Right: 184.790+/-0.036 χ^2/NDF : 2379520.9/34

In: 192.644+/-0.032 χ^2/NDF : 1530553.3/30

Out: 198.573+/-0.032 χ^2/NDF : 2307409.8/35

All: 195.602+/-0.023 χ^2/NDF : 3855089.4/66

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -479.302+/-86.685 χ^2/NDF : 305.4/15

Left Out: 189.086+/-65.455 χ^2/NDF :932.7/16

Right Out: -984.498+/-80.945 χ^2/NDF : 398.1/18

Left In: -427.602+/-62.631 χ^2/NDF :1597.3/14

Left: -132.846+/-45.252 χ^2/NDF : 2576.4/31

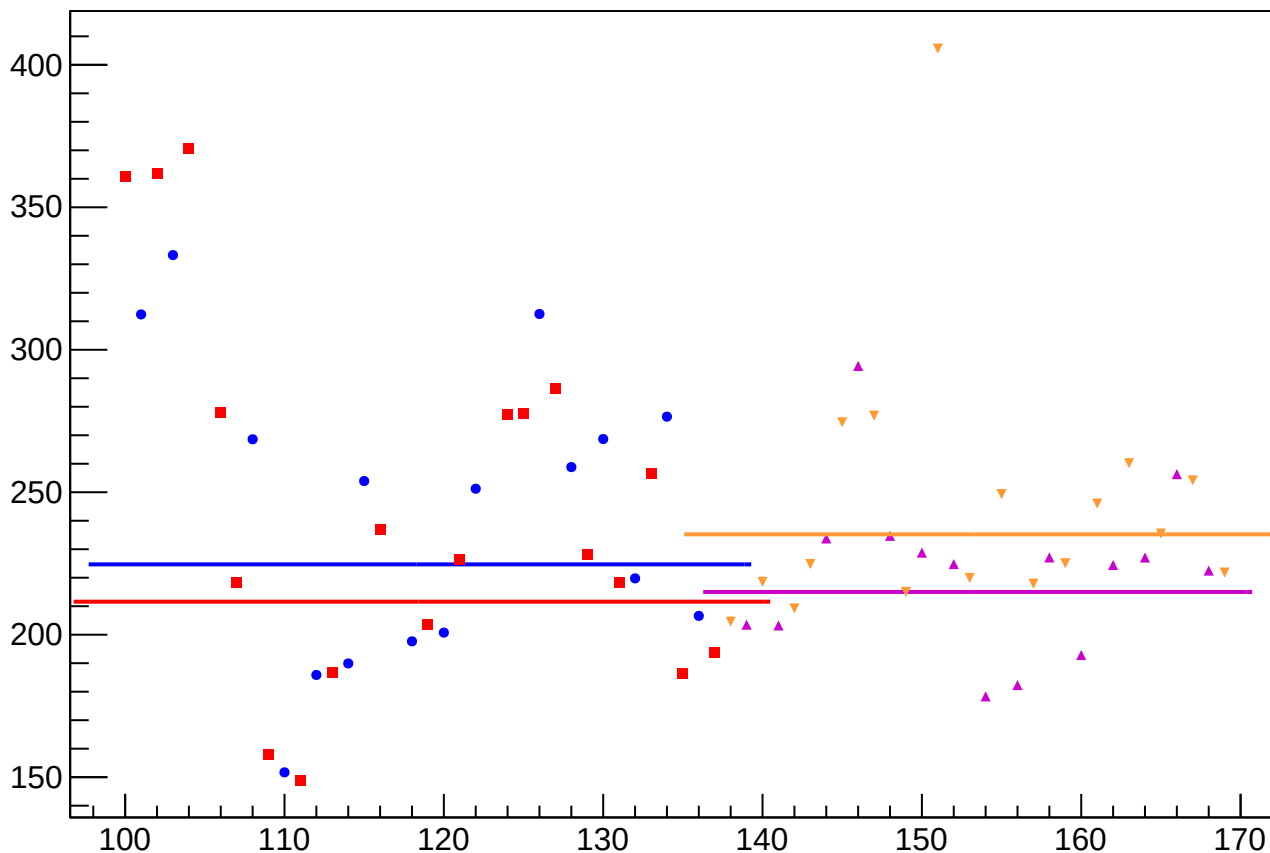
Right: -749.177+/-59.162 χ^2/NDF : 721.7/34

In: -445.334+/-50.767 χ^2/NDF :1903.0/30

Out: -274.902+/-50.897 χ^2/NDF :1458.0/35

All: -360.336+/-35.943 χ^2/NDF : 3366.6/66

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 224.683 $\pm$ 0.061 χ^2 /NDF: 653193.4/15

Left Out: 235.230 $\pm$ 0.046 χ^2 /NDF: 487638.5/16

Right Out: 211.595 $\pm$ 0.057 χ^2 /NDF: 932902.5/18

Left In: 215.002 $\pm$ 0.044 χ^2 /NDF: 359243.2/14

Left: 224.670 $\pm$ 0.032 χ^2 /NDF: 946596.1/31

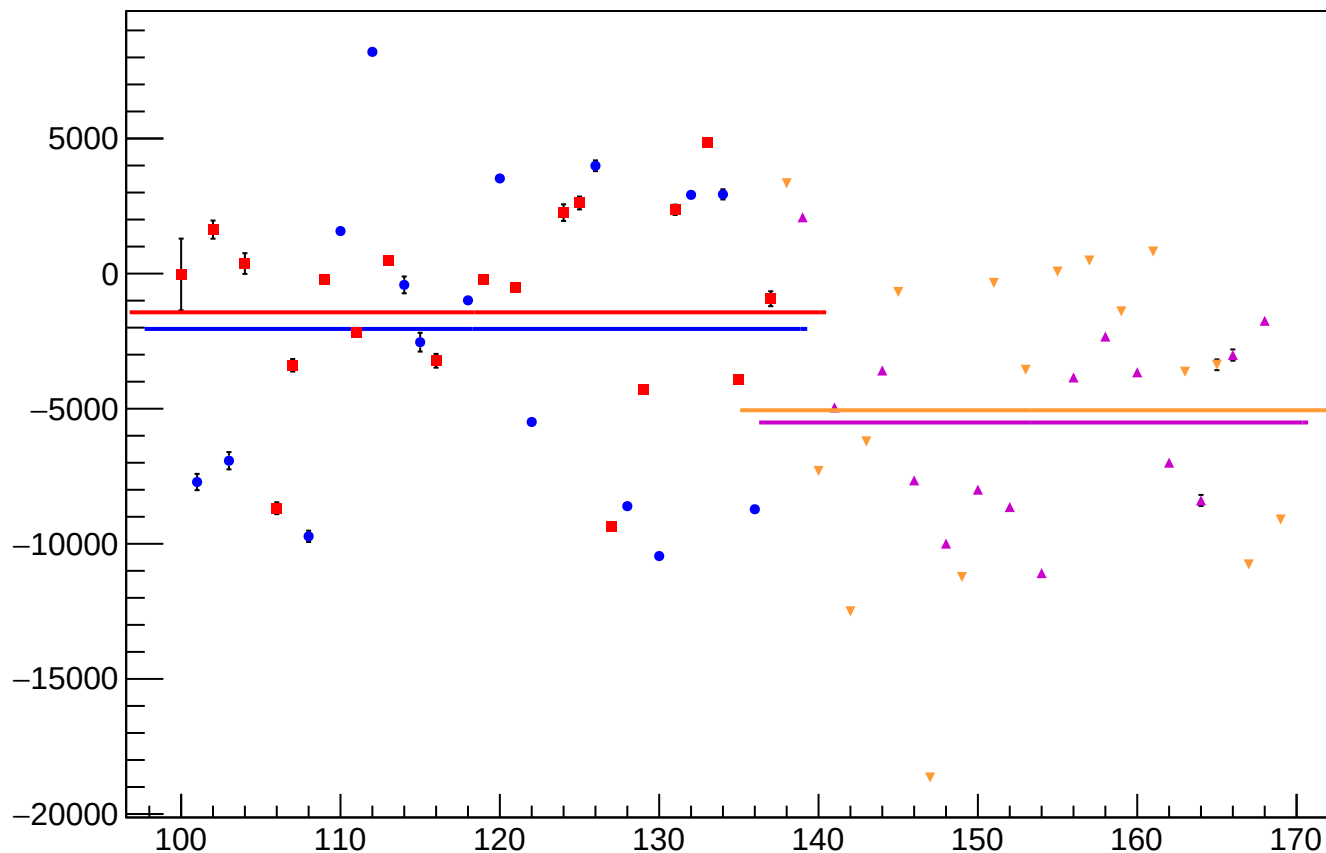
Right: 217.691 $\pm$ 0.042 χ^2 /NDF: 1610450.2/34

In: 218.322 $\pm$ 0.036 χ^2 /NDF: 1028825.9/30

Out: 225.885 $\pm$ 0.036 χ^2 /NDF: 1523638.4/35

All: 222.094 $\pm$ 0.025 χ^2 /NDF: 2574603.8/66

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2047.267 ± 46.722 $\chi^2/\text{NDF}: 16709.1/15$

Left Out: -5057.000 ± 33.975 $\chi^2/\text{NDF}: 31493.0/16$

Right Out: -1432.909 ± 44.729 $\chi^2/\text{NDF}: 6387.8/18$

Left In: -5509.999 ± 35.434 $\chi^2/\text{NDF}: 10226.9/14$

Left: -5273.982 ± 24.524 $\chi^2/\text{NDF}: 41805.1/31$

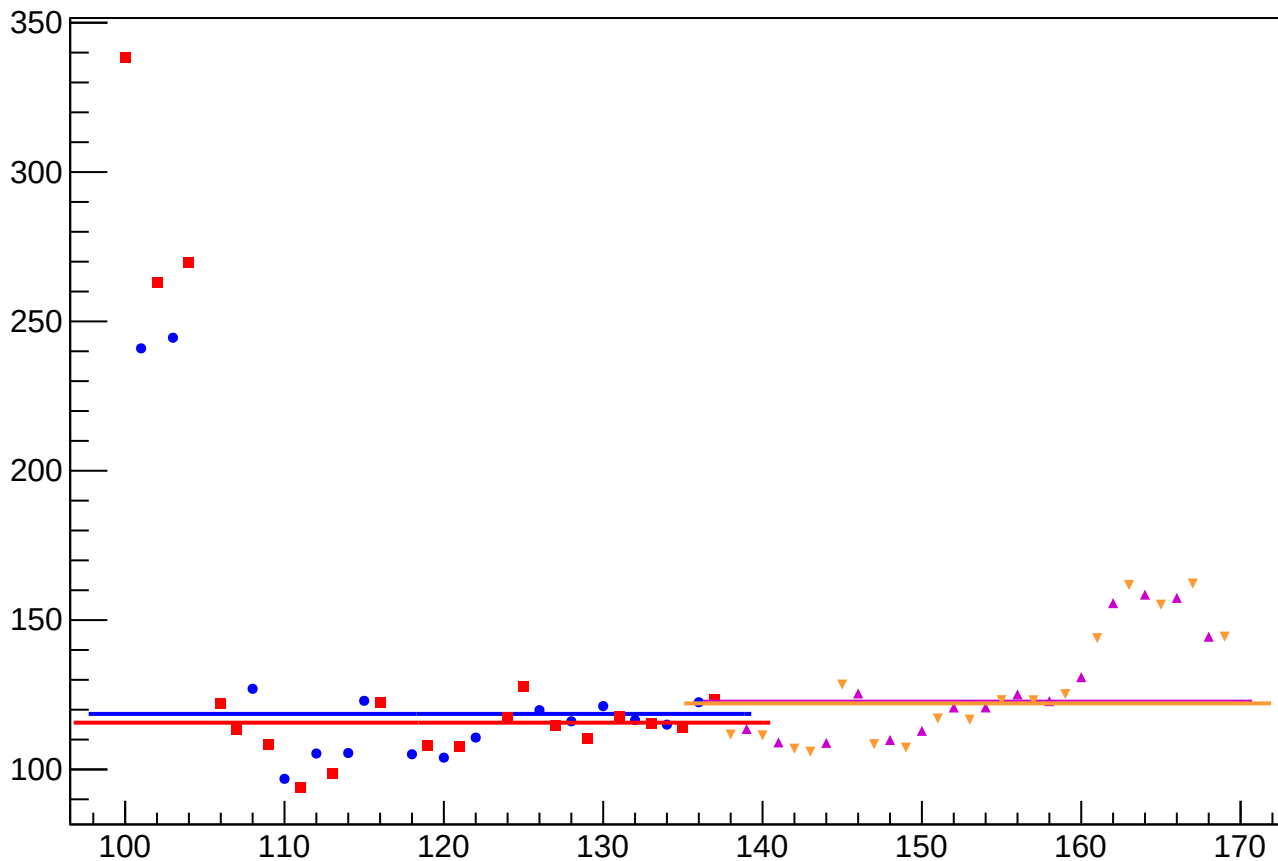
Right: -1726.707 ± 32.310 $\chi^2/\text{NDF}: 23187.1/34$

In: -4245.565 ± 28.233 $\chi^2/\text{NDF}: 30423.2/30$

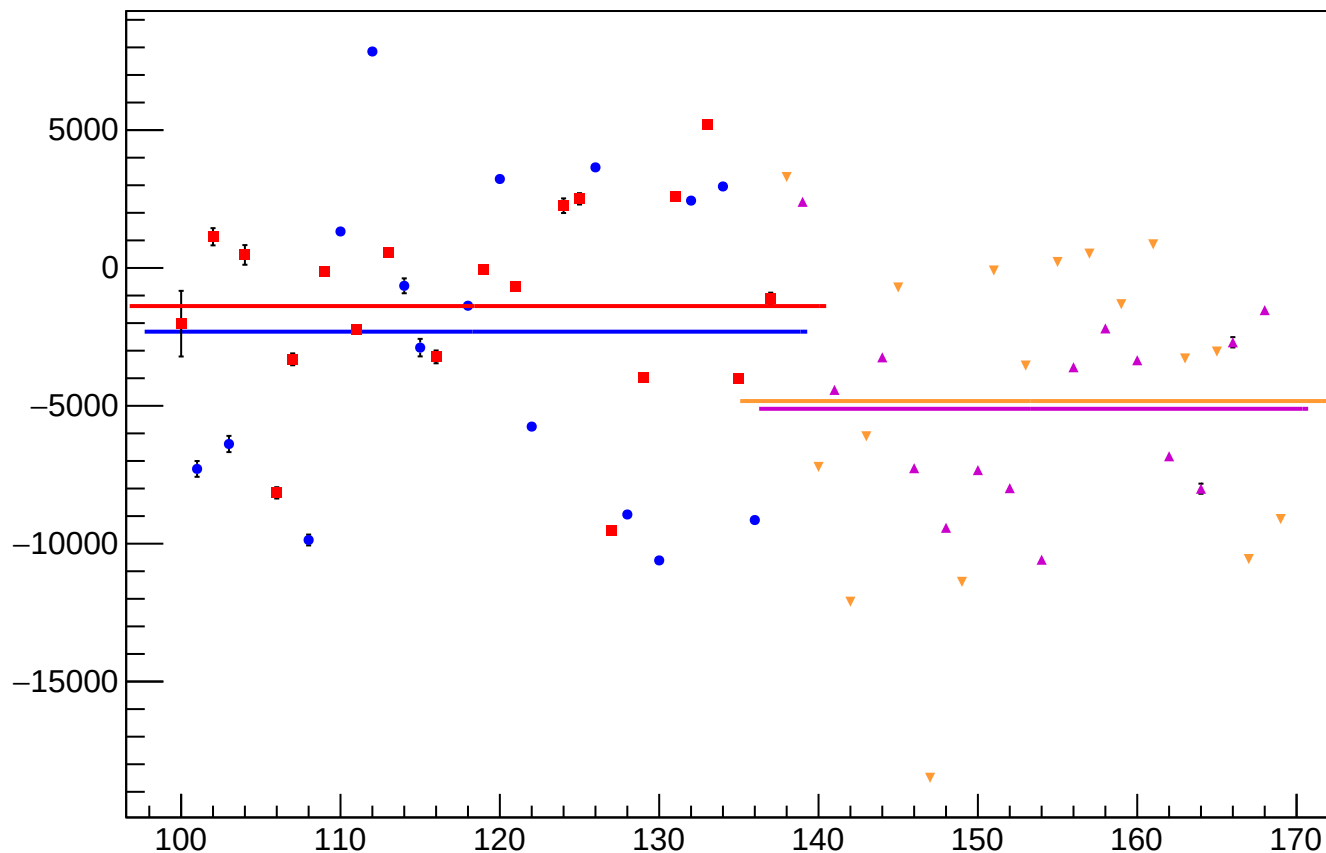
Out: -3731.049 ± 27.055 $\chi^2/\text{NDF}: 42043.7/35$

All: -3977.352 ± 19.534 $\chi^2/\text{NDF}: 72640.0/66$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: -2310.581 $\pm$ 40.734 χ^2/NDF : 21679.5/15

Left Out: -4826.734 $\pm$ 30.488 χ^2/NDF : 38202.6/16

Right Out: -1382.178 $\pm$ 39.342 χ^2/NDF : 8578.9/18

Left In: -5108.050 $\pm$ 31.788 χ^2/NDF : 12097.6/14

Left: -4961.520 $\pm$ 22.004 χ^2/NDF : 50341.1/31

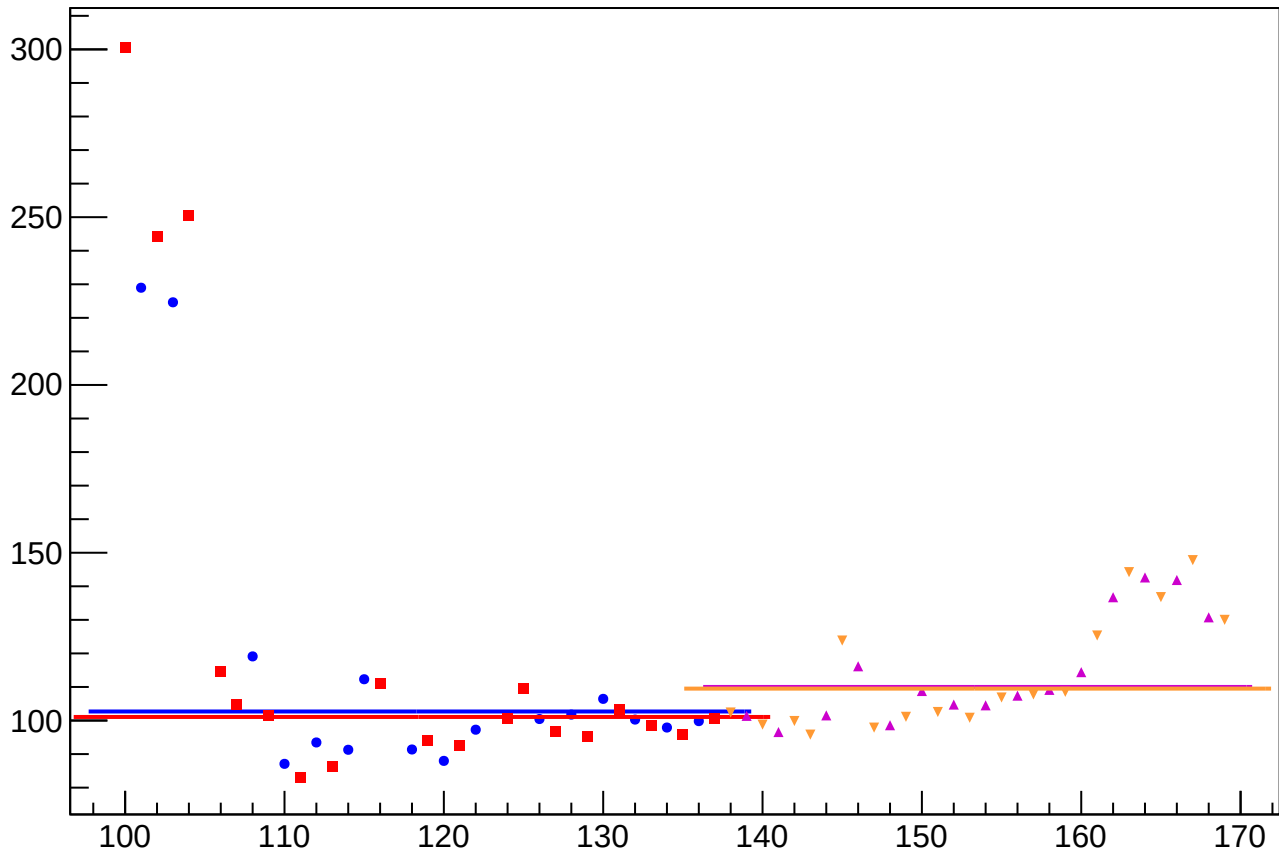
Right: -1830.238 $\pm$ 28.298 χ^2/NDF : 30527.1/34

In: -4049.224 $\pm$ 25.061 χ^2/NDF : 36708.4/30

Out: -3534.289 $\pm$ 24.099 χ^2/NDF : 51571.0/35

All: -3781.685 $\pm$ 17.370 χ^2/NDF : 88498.7/66

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 102.694 ± 0.029 $\chi^2/\text{NDF}: 825801.5/15$

Left Out: 109.510 ± 0.022 $\chi^2/\text{NDF}: 459809.7/16$

Right Out: 101.063 ± 0.028 $\chi^2/\text{NDF}: 930458.1/18$

Left In: 110.004 ± 0.022 $\chi^2/\text{NDF}: 321703.9/14$

Left: 109.747 ± 0.016 $\chi^2/\text{NDF}: 781765.0/31$

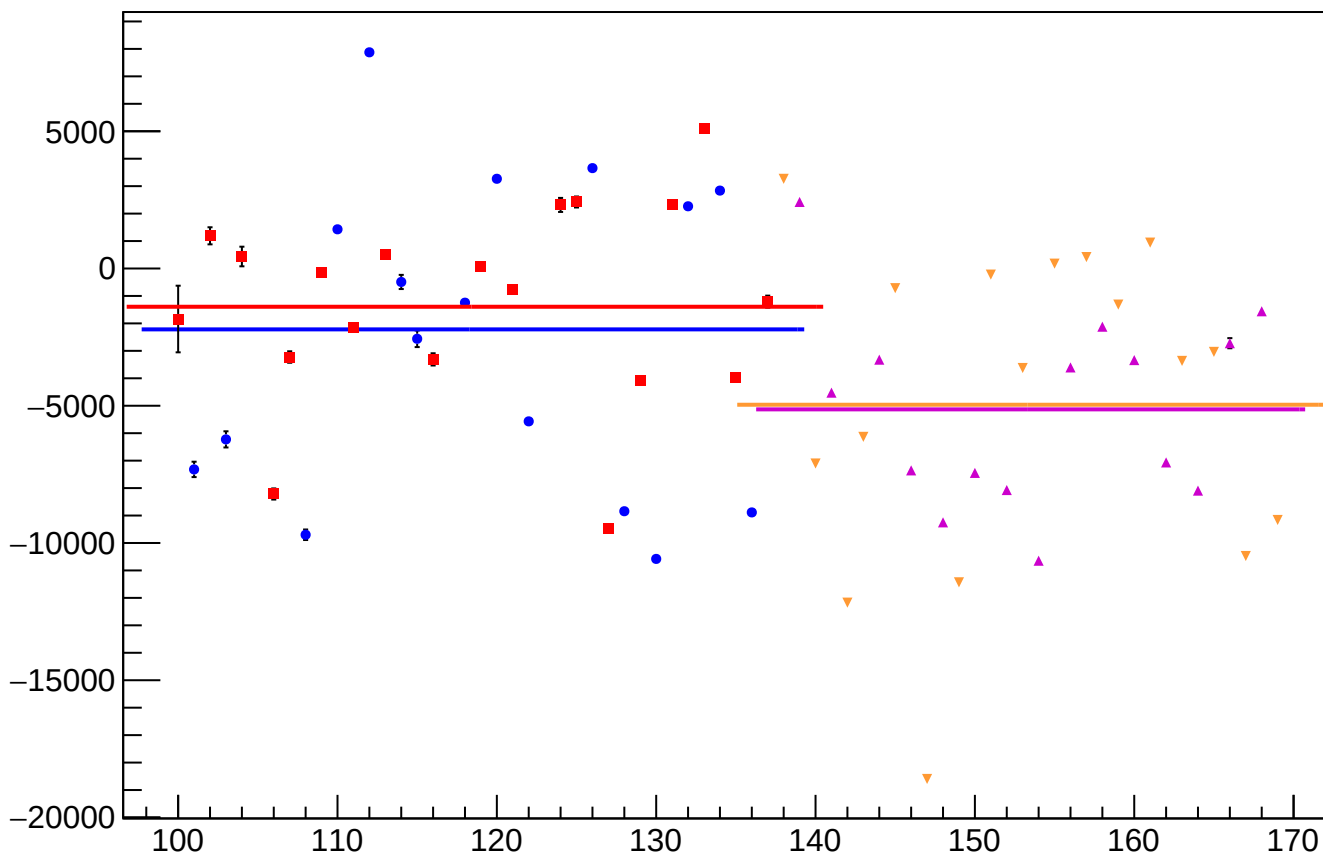
Right: 101.850 ± 0.020 $\chi^2/\text{NDF}: 1757917.4/34$

In: 107.237 ± 0.018 $\chi^2/\text{NDF}: 1187536.2/30$

Out: 106.341 ± 0.017 $\chi^2/\text{NDF}: 1447867.7/35$

All: 106.771 ± 0.012 $\chi^2/\text{NDF}: 2636733.1/66$

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: -2218.049 $\pm$ 39.039 χ^2/NDF : 23040.7/15

Left Out: -4963.573 $\pm$ 29.848 χ^2/NDF : 41006.0/16

Right Out: -1393.557 $\pm$ 37.580 χ^2/NDF : 9152.1/18

Left In: -5132.277 $\pm$ 31.079 χ^2/NDF : 12812.4/14

Left: -5044.517 $\pm$ 21.528 χ^2/NDF : 53833.8/31

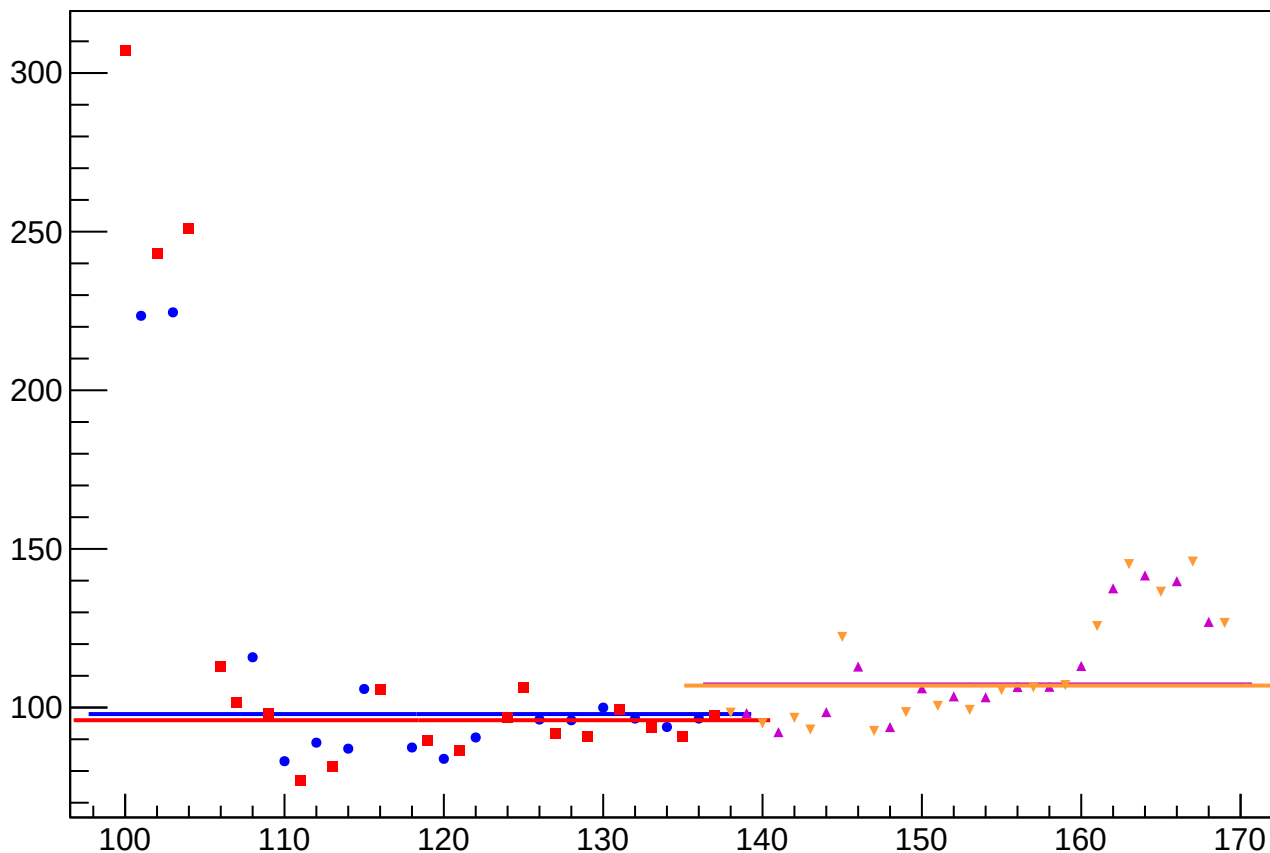
Right: -1790.108 $\pm$ 27.074 χ^2/NDF : 32424.3/34

In: -4001.757 $\pm$ 24.315 χ^2/NDF : 39263.9/30

Out: -3582.602 $\pm$ 23.373 χ^2/NDF : 55691.9/35

All: -3783.902 $\pm$ 16.850 χ^2/NDF : 95110.2/66

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 97.944+/-0.028 χ^2/NDF : 868148.4/15

Left Out: 106.919+/-0.021 χ^2/NDF : 533068.2/16

Right Out: 96.005+/-0.027 χ^2/NDF : 1012287.0/18

Left In: 107.278+/-0.022 χ^2/NDF : 370982.9/14

Left: 107.092+/-0.015 χ^2/NDF : 904189.9/31

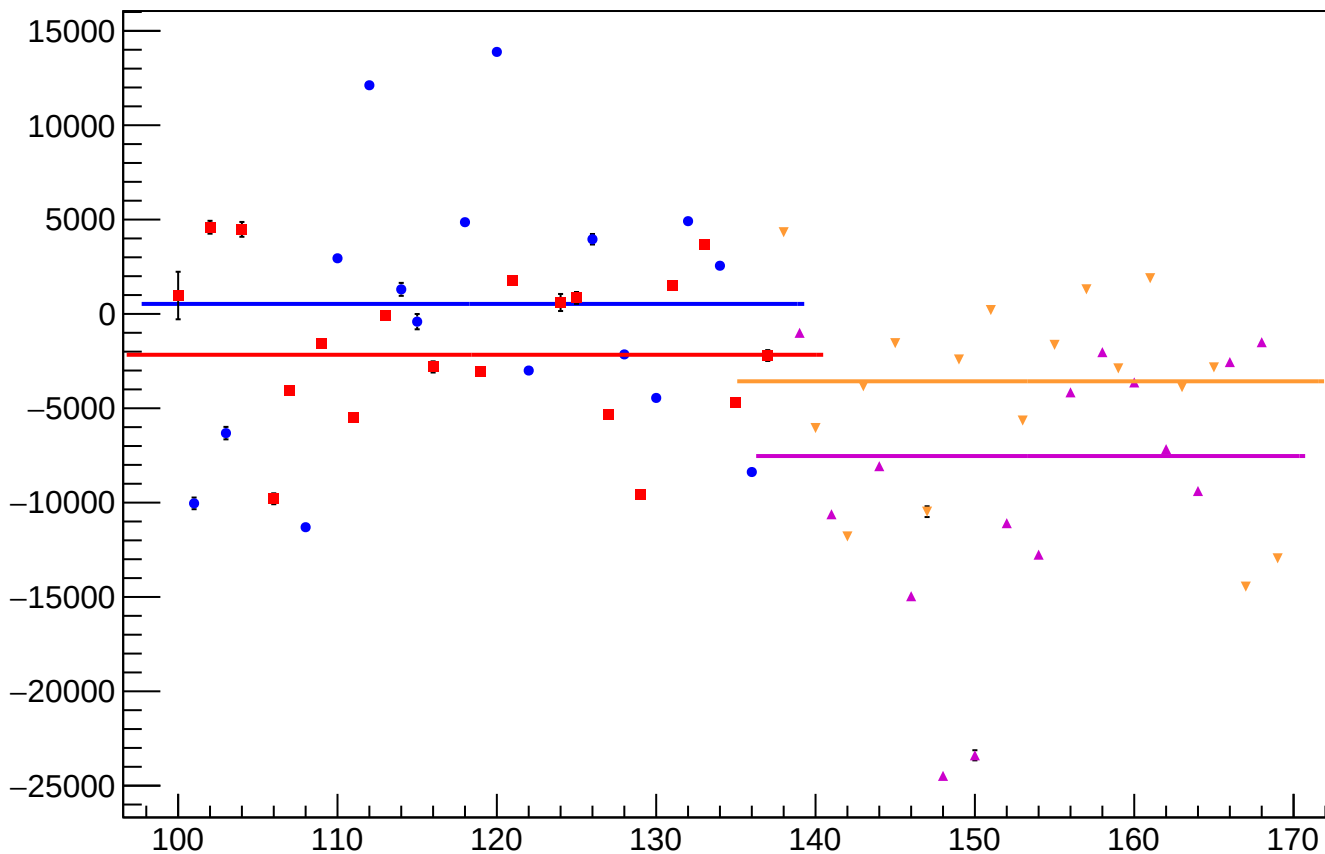
Right: 96.937+/-0.019 χ^2/NDF : 1882996.0/34

In: 103.657+/-0.017 χ^2/NDF : 1309122.2/30

Out: 102.697+/-0.017 χ^2/NDF : 1648802.1/35

All: 103.158+/-0.012 χ^2/NDF : 2959544.2/66

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 530.568 ± 54.855 $\chi^2/\text{NDF}: 18587.6/15$

Left Out: -3570.718 ± 42.975 $\chi^2/\text{NDF}: 13808.7/16$

Right Out: -2164.994 ± 53.458 $\chi^2/\text{NDF}: 4967.1/18$

Left In: -7531.519 ± 45.749 $\chi^2/\text{NDF}: 16852.0/14$

Left: -5427.379 ± 31.323 $\chi^2/\text{NDF}: 34642.6/31$

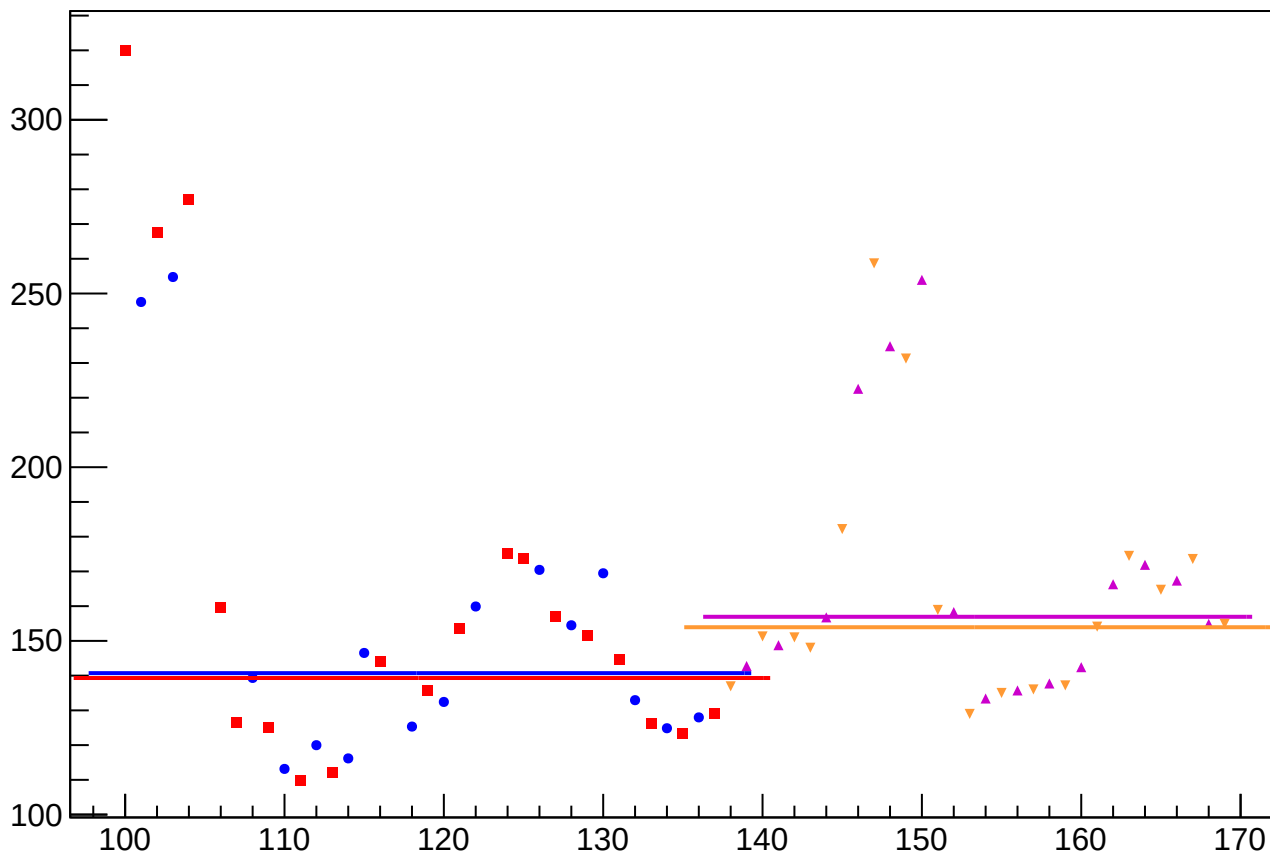
Right: -851.965 ± 38.285 $\chi^2/\text{NDF}: 24793.2/34$

In: -4224.224 ± 35.134 $\chi^2/\text{NDF}: 48179.1/30$

Out: -3018.889 ± 33.494 $\chi^2/\text{NDF}: 19195.9/35$

All: -3592.769 ± 24.243 $\chi^2/\text{NDF}: 67991.6/66$

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 140.715 $\pm$ 0.039 χ^2 /NDF: 675618.7/15

Left Out: 153.933 $\pm$ 0.030 χ^2 /NDF: 717901.7/16

Right Out: 139.317 $\pm$ 0.038 χ^2 /NDF: 802317.0/18

Left In: 156.940 $\pm$ 0.032 χ^2 /NDF: 776798.9/14

Left: 155.343 $\pm$ 0.022 χ^2 /NDF: 1499290.7/31

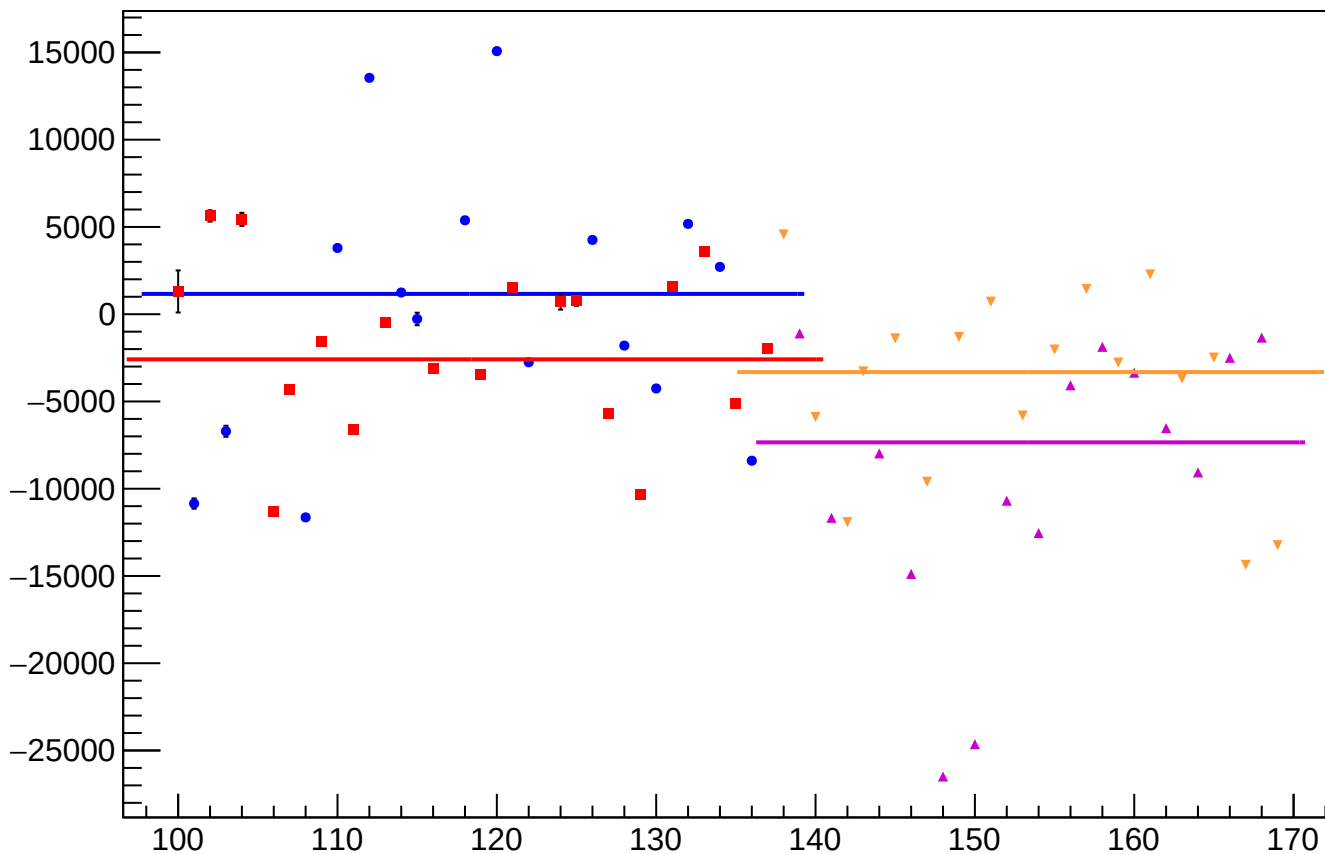
Right: 139.998 $\pm$ 0.027 χ^2 /NDF: 1478602.2/34

In: 150.284 $\pm$ 0.025 χ^2 /NDF: 1555608.3/30

Out: 148.195 $\pm$ 0.024 χ^2 /NDF: 1611034.2/35

All: 149.190 $\pm$ 0.017 χ^2 /NDF: 3170345.9/66

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 1162.980+/-45.930 χ^2/NDF : 30754.3/15

Left Out: -3316.027+/-37.991 χ^2/NDF : 18004.5/16

Right Out: -2586.755+/-44.256 χ^2/NDF : 8099.7/18

Left In: -7343.881+/-40.503 χ^2/NDF : 22315.4/14

Left: -5201.188+/-27.709 χ^2/NDF : 45580.8/31

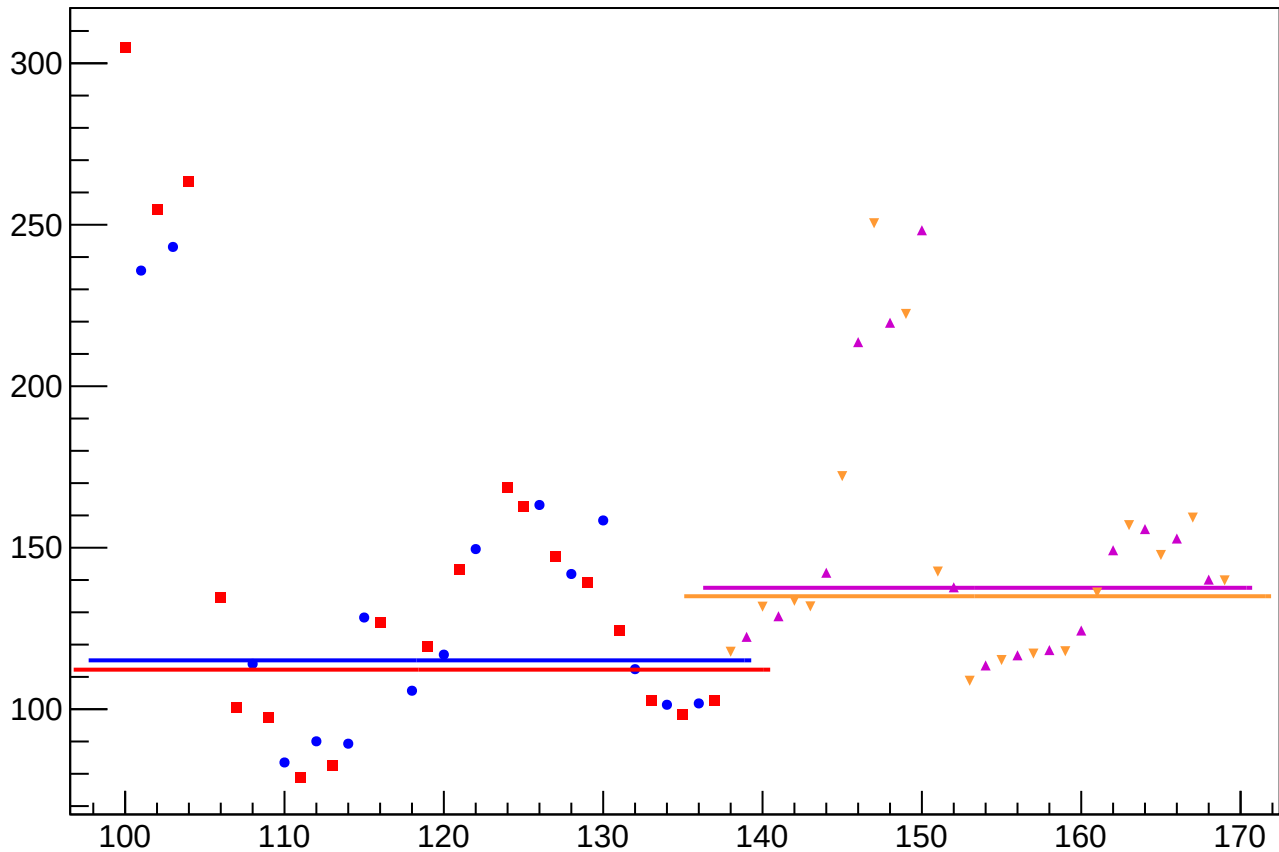
Right: -781.454+/-31.869 χ^2/NDF : 42310.2/34

In: -3622.462+/-30.379 χ^2/NDF : 72367.1/30

Out: -3006.621+/-28.827 χ^2/NDF : 26260.6/35

All: -3298.411+/-20.911 χ^2/NDF : 98843.9/66

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 115.125+/-0.032 χ^2/NDF : 1112987.2/15

Left Out: 134.976+/-0.027 χ^2/NDF :1013880.9/16

Right Out: 112.241+/-0.031 χ^2/NDF : 1328156.6/18

Left In: 137.590+/-0.029 χ^2/NDF :1066691.6/14

Left: 136.200+/-0.020 χ^2/NDF : 2085002.9/31

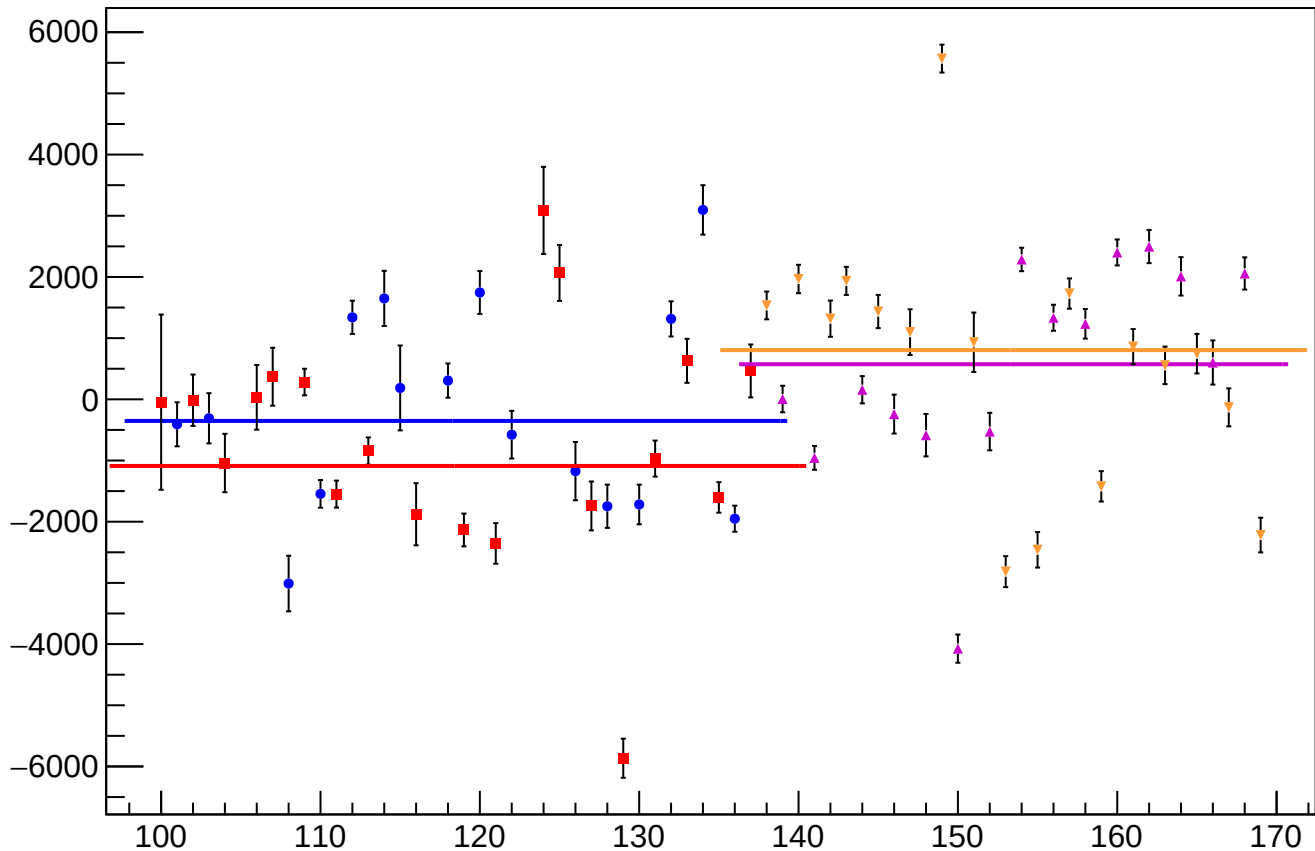
Right: 113.630+/-0.023 χ^2/NDF : 2445233.6/34

In: 127.763+/-0.021 χ^2/NDF :2448820.2/30

Out: 125.330+/-0.020 χ^2/NDF :2645909.1/35

All: 126.483+/-0.015 χ^2/NDF : 5101474.6/66

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -353.129 ± 82.136 $\chi^2/\text{NDF}: 361.8/15$

Left Out: 804.445 ± 66.234 $\chi^2/\text{NDF}: 1055.3/16$

Right Out: -1088.752 ± 76.444 $\chi^2/\text{NDF}: 447.2/18$

Left In: 573.548 ± 63.257 $\chi^2/\text{NDF}: 785.8/14$

Left: 683.691 ± 45.746 $\chi^2/\text{NDF}: 1847.5/31$

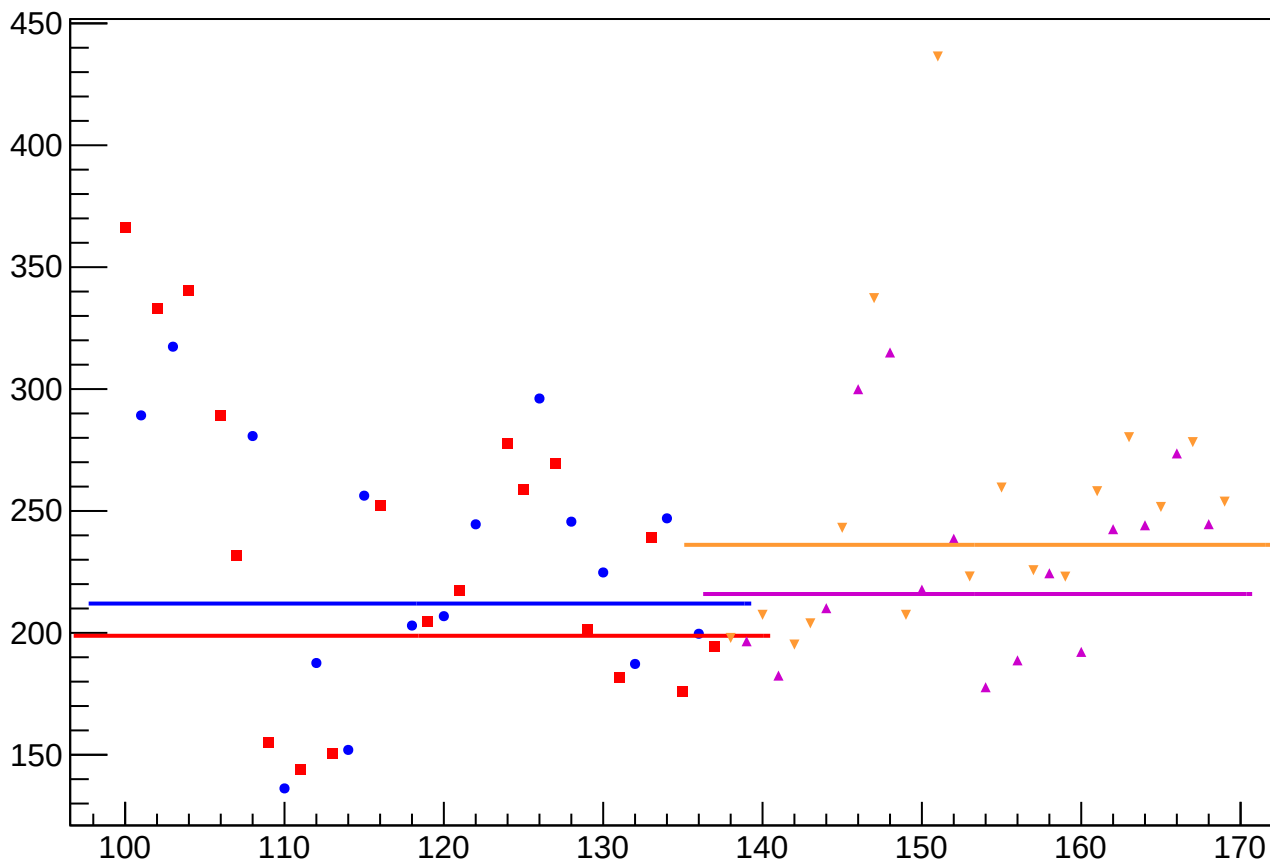
Right: -747.310 ± 55.958 $\chi^2/\text{NDF}: 852.0/34$

In: 228.539 ± 50.117 $\chi^2/\text{NDF}: 1227.5/30$

Out: -7.374 ± 50.058 $\chi^2/\text{NDF}: 1852.8/35$

All: 110.444 ± 35.417 $\chi^2/\text{NDF}: 3091.4/66$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 212.027+/-0.058 χ^2/NDF : 690358.0/15

Left Out: 236.112+/-0.047 χ^2/NDF : 815181.1/16

Right Out: 198.809+/-0.054 χ^2/NDF : 974928.4/18

Left In: 215.945+/-0.045 χ^2/NDF : 639988.7/14

Left: 225.565+/-0.032 χ^2/NDF : 1552136.1/31

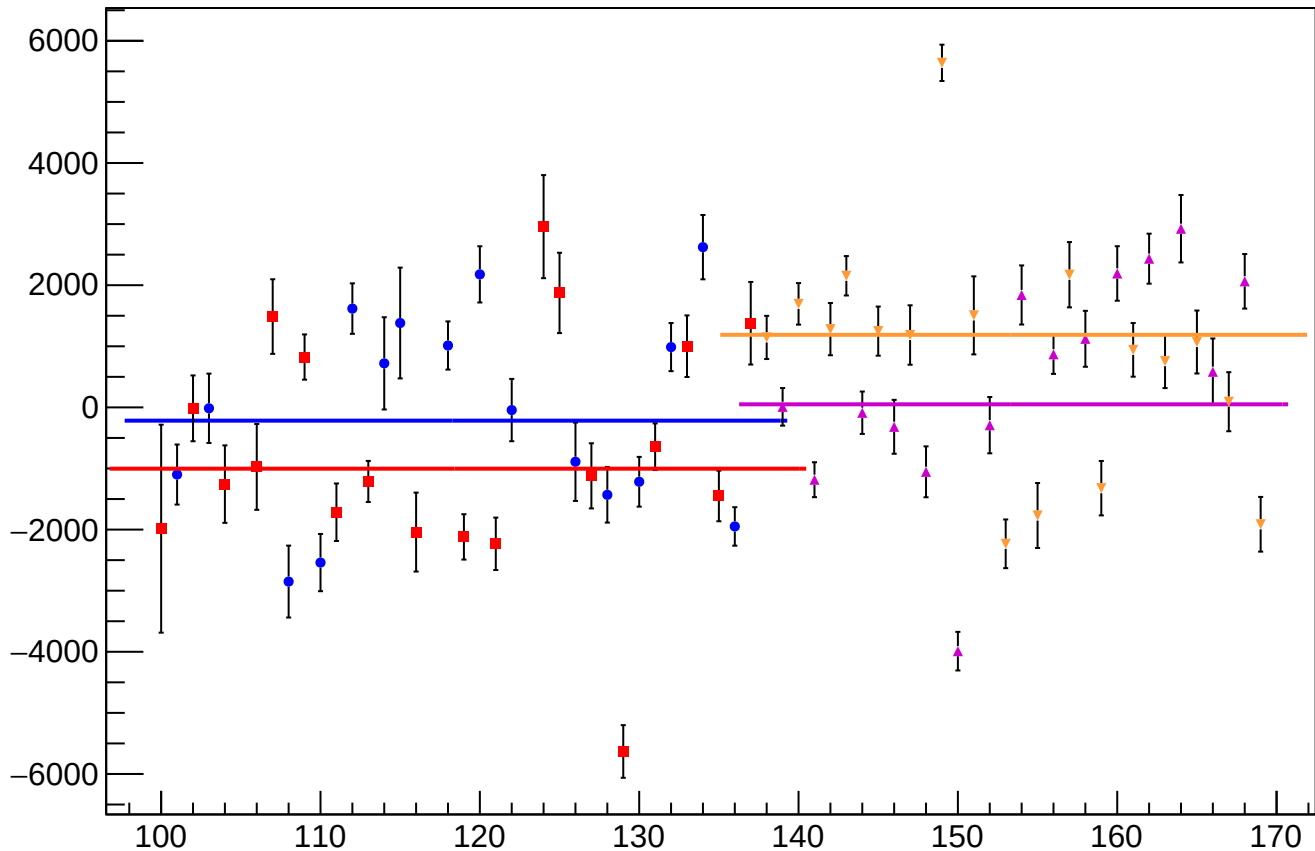
Right: 204.945+/-0.040 χ^2/NDF : 1693041.6/34

In: 214.487+/-0.035 χ^2/NDF : 1333203.0/30

Out: 220.116+/-0.035 χ^2/NDF : 2062133.2/35

All: 217.305+/-0.025 χ^2/NDF : 3407969.4/66

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -216.948 ± 117.887 $\chi^2/\text{NDF}: 192.2/15$

Left Out: 1188.092 ± 101.170 $\chi^2/\text{NDF}: 430.0/16$

Right Out: -1003.049 ± 113.111 $\chi^2/\text{NDF}: 254.3/18$

Left In: 50.358 ± 100.915 $\chi^2/\text{NDF}: 321.9/14$

Left: 617.784 ± 71.448 $\chi^2/\text{NDF}: 815.3/31$

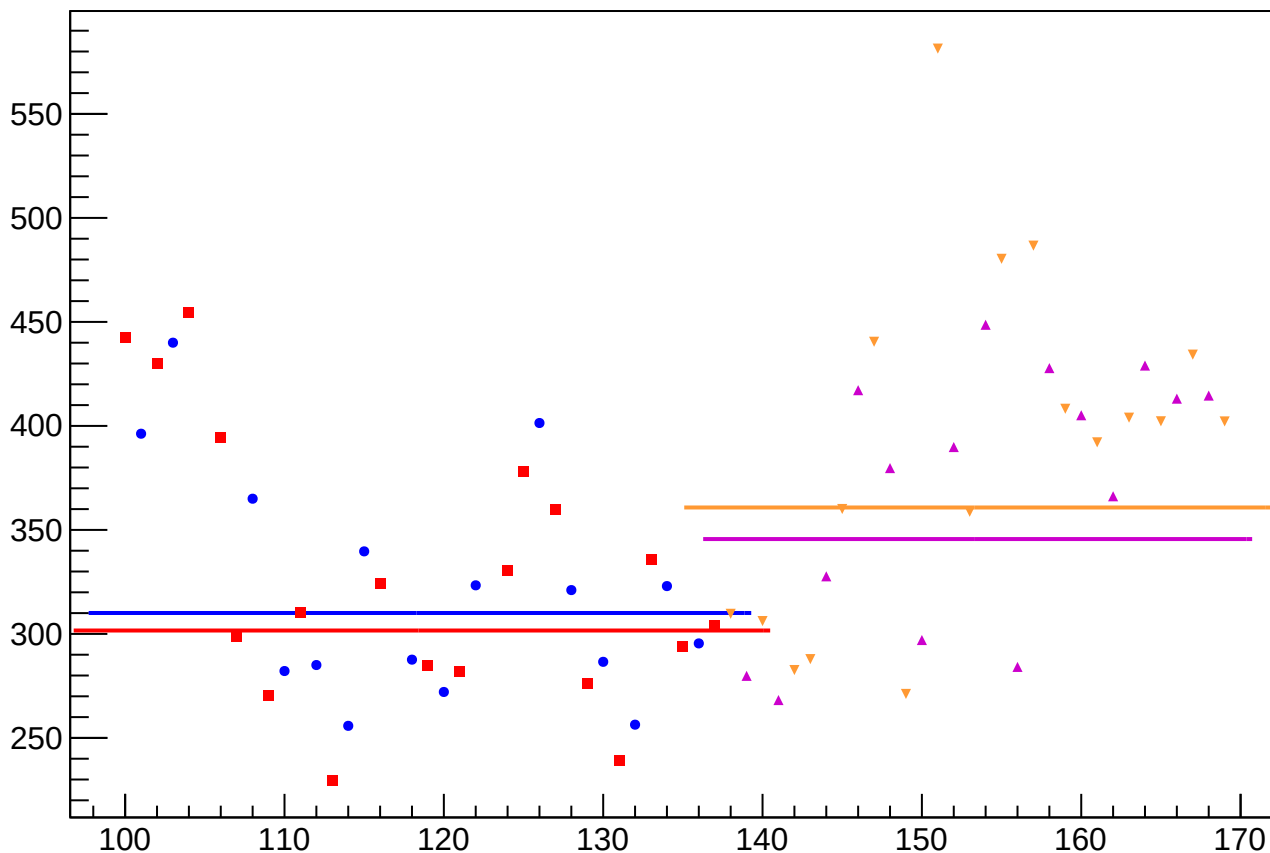
Right: -626.246 ± 81.618 $\chi^2/\text{NDF}: 469.7/34$

In: -62.684 ± 76.662 $\chi^2/\text{NDF}: 517.1/30$

Out: 214.238 ± 75.408 $\chi^2/\text{NDF}: 892.8/35$

All: 78.062 ± 53.759 $\chi^2/\text{NDF}: 1416.5/66$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 310.062+/-0.083 χ^2/NDF : 323283.5/15

Left Out: 360.783+/-0.072 χ^2/NDF : 1077352.3/16

Right Out: 301.637+/-0.080 χ^2/NDF : 519888.9/18

Left In: 345.604+/-0.071 χ^2/NDF : 768666.3/14

Left: 353.174+/-0.051 χ^2/NDF : 1868583.7/31

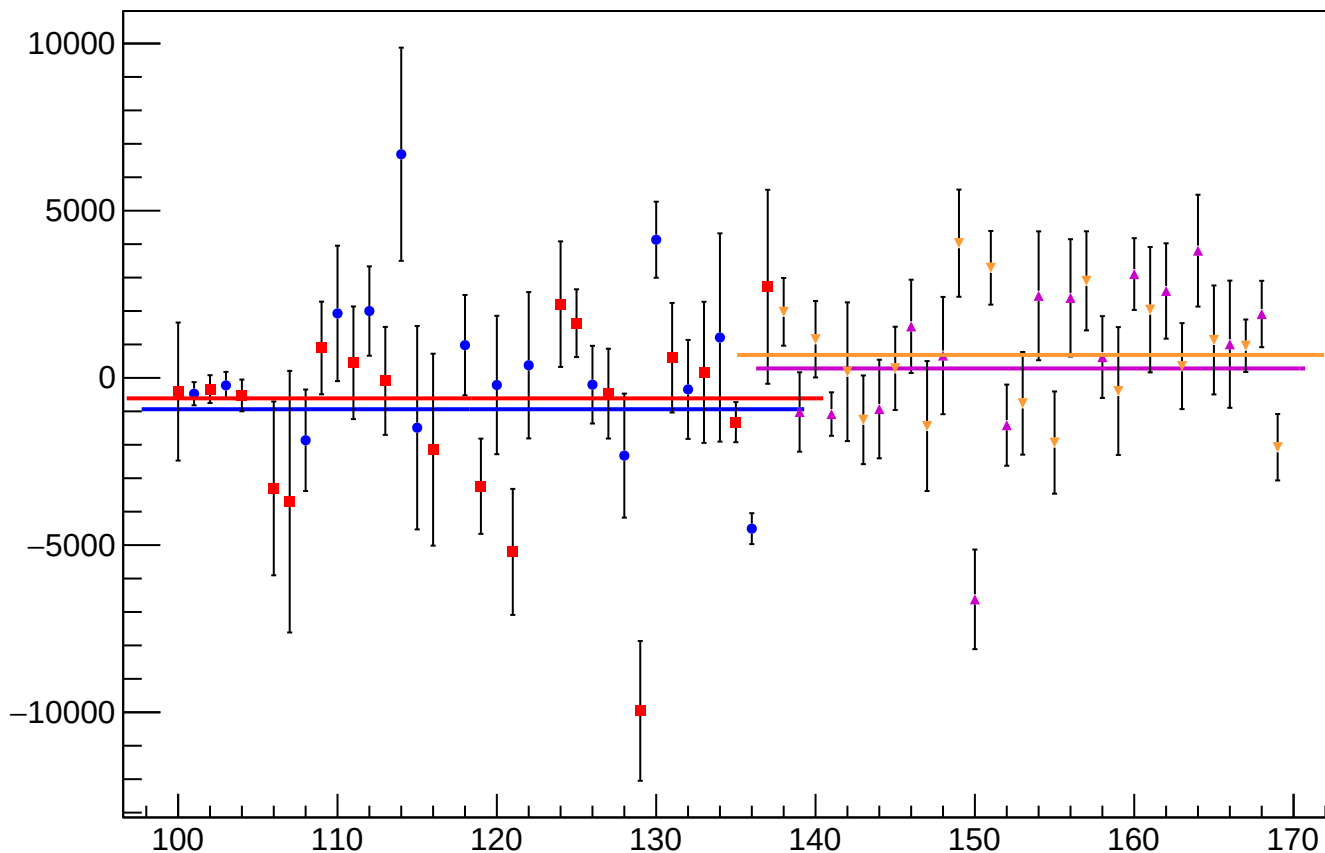
Right: 305.675+/-0.058 χ^2/NDF : 848490.9/34

In: 330.574+/-0.054 χ^2/NDF : 1196866.4/30

Out: 334.495+/-0.053 χ^2/NDF : 1901042.4/35

All: 332.567+/-0.038 χ^2/NDF : 3100568.8/66

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -936.949 $\pm$ 204.717 χ^2/NDF : 101.2/15

Left Out: 686.758 $\pm$ 313.832 χ^2/NDF :30.1/16

Right Out: -611.668 $\pm$ 233.144 χ^2/NDF : 44.1/18

Left In: 282.680 $\pm$ 319.801 χ^2/NDF :50.2/14

Left: 488.525 $\pm$ 223.993 χ^2/NDF : 81.2/31

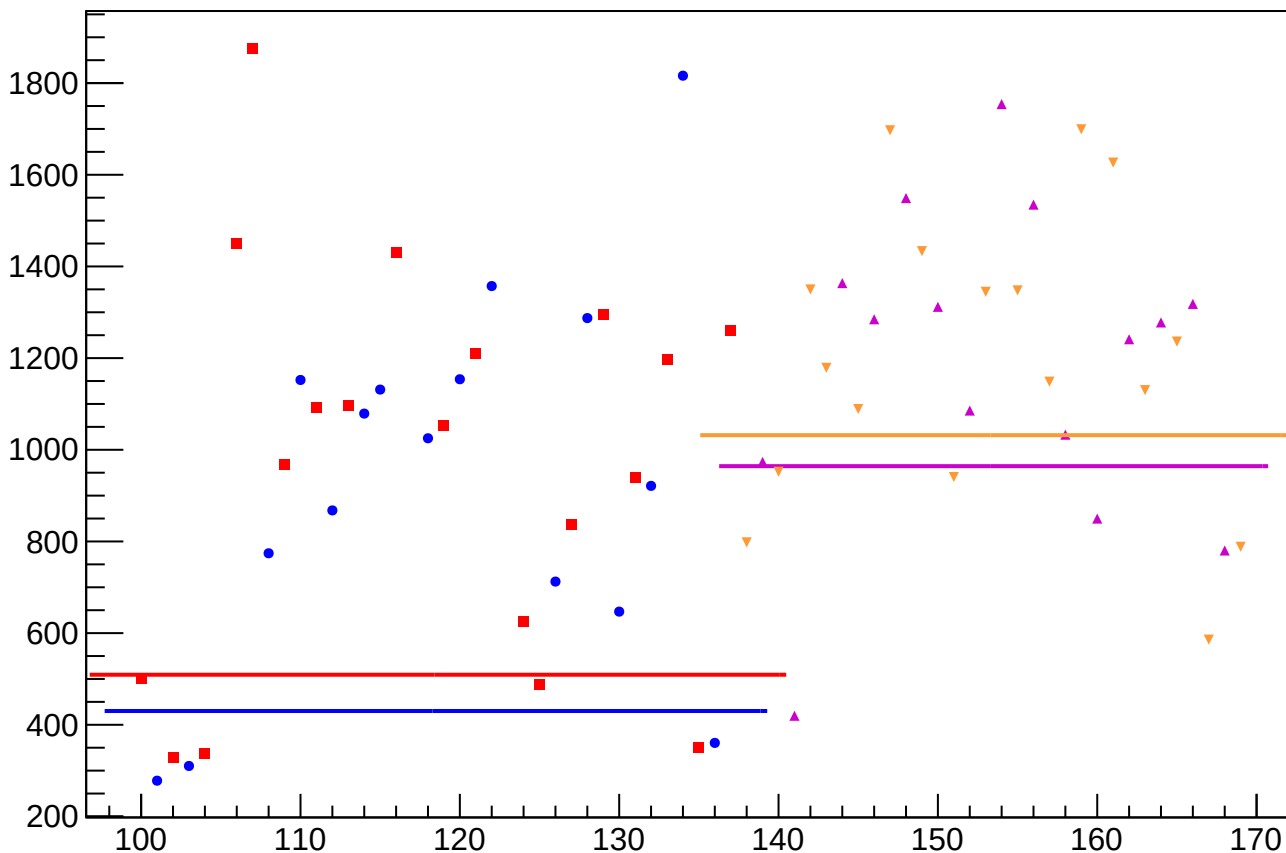
Right: -795.339 $\pm$ 153.831 χ^2/NDF : 146.4/34

In: -582.442 $\pm$ 172.416 χ^2/NDF :161.7/30

Out: -149.915 $\pm$ 187.152 χ^2/NDF :85.3/35

All: -383.874 $\pm$ 126.807 χ^2/NDF : 249.9/66

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 430.110+/-0.145 χ^2/NDF : 3521861.8/15

Left Out: 1031.877+/-0.222 χ^2/NDF : 2002033.8/16

Right Out: 509.236+/-0.165 χ^2/NDF : 3673425.8/18

Left In: 964.285+/-0.226 χ^2/NDF : 2868432.6/14

Left: 998.718+/-0.158 χ^2/NDF : 4915979.5/31

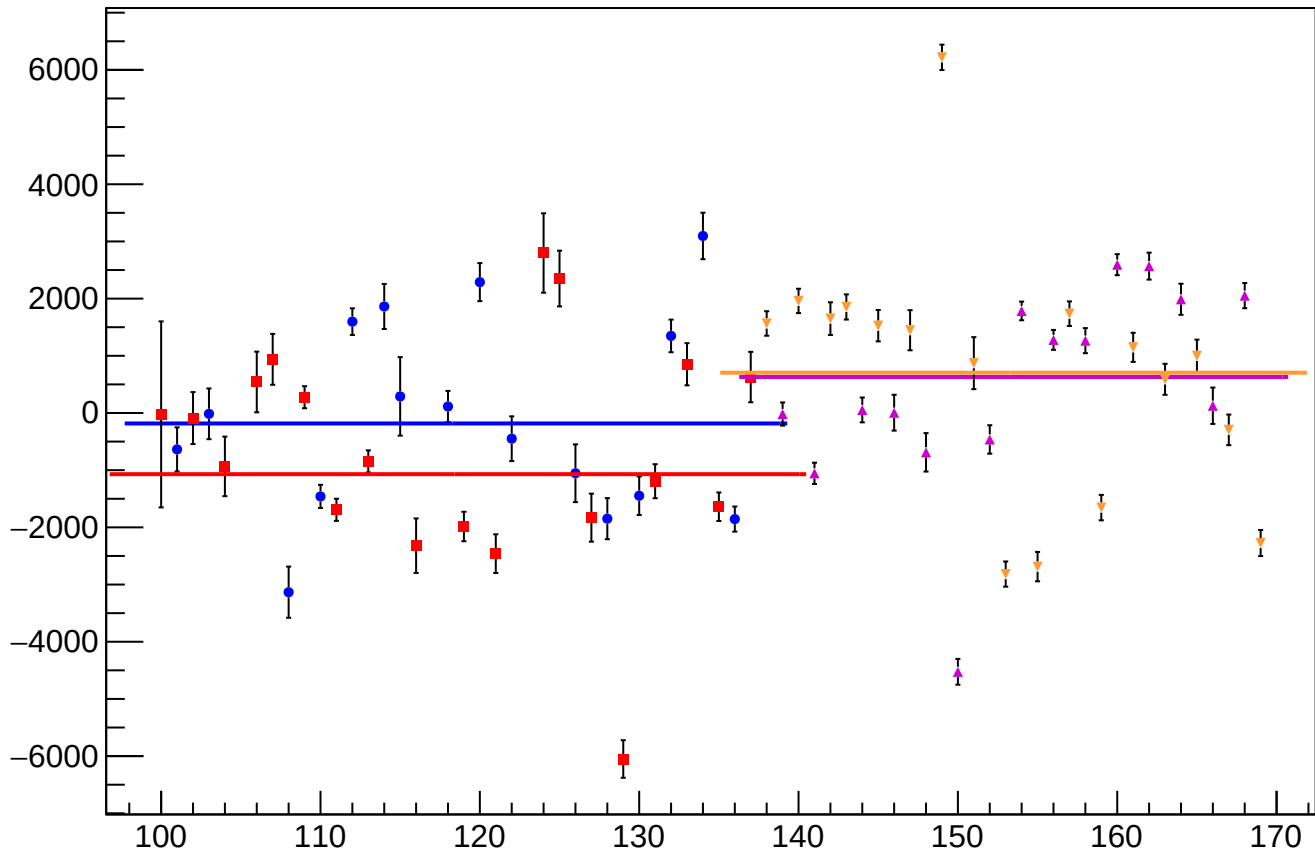
Right: 464.557+/-0.109 χ^2/NDF : 7325362.7/34

In: 585.378+/-0.122 χ^2/NDF : 10348403.0/30

Out: 695.100+/-0.132 χ^2/NDF : 9249673.7/35

All: 635.750+/-0.090 χ^2/NDF : 19969920.8/66

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -183.020+/-79.863 χ^2/NDF : 417.7/15

Left Out: 705.073+/-60.233 χ^2/NDF :1473.4/16

Right Out: -1069.729+/-73.060 χ^2/NDF : 492.3/18

Left In: 629.664+/-56.582 χ^2/NDF :983.4/14

Left: 665.013+/-41.240 χ^2/NDF : 2457.6/31

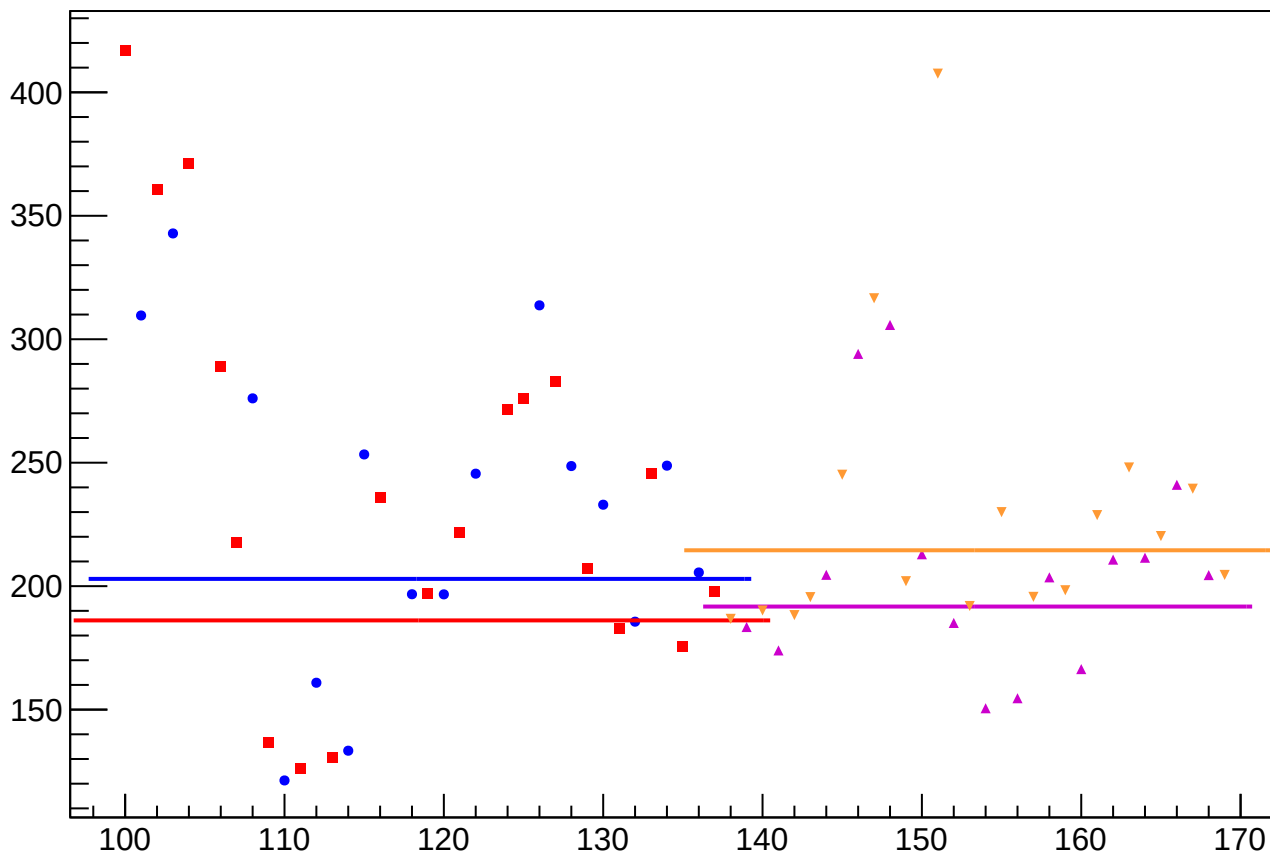
Right: -665.741+/-53.906 χ^2/NDF : 977.1/34

In: 358.067+/-46.169 χ^2/NDF :1470.1/30

Out: -13.102+/-46.475 χ^2/NDF :2316.9/35

All: 173.711+/-32.754 χ^2/NDF : 3819.1/66

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 202.941 $\pm$ 0.056 χ^2 /NDF: 1071859.2/15

Left Out: 214.528 $\pm$ 0.043 χ^2 /NDF: 766122.7/16

Right Out: 186.129 $\pm$ 0.052 χ^2 /NDF: 1481664.4/18

Left In: 191.739 $\pm$ 0.040 χ^2 /NDF: 831605.5/14

Left: 202.421 $\pm$ 0.029 χ^2 /NDF: 1749814.4/31

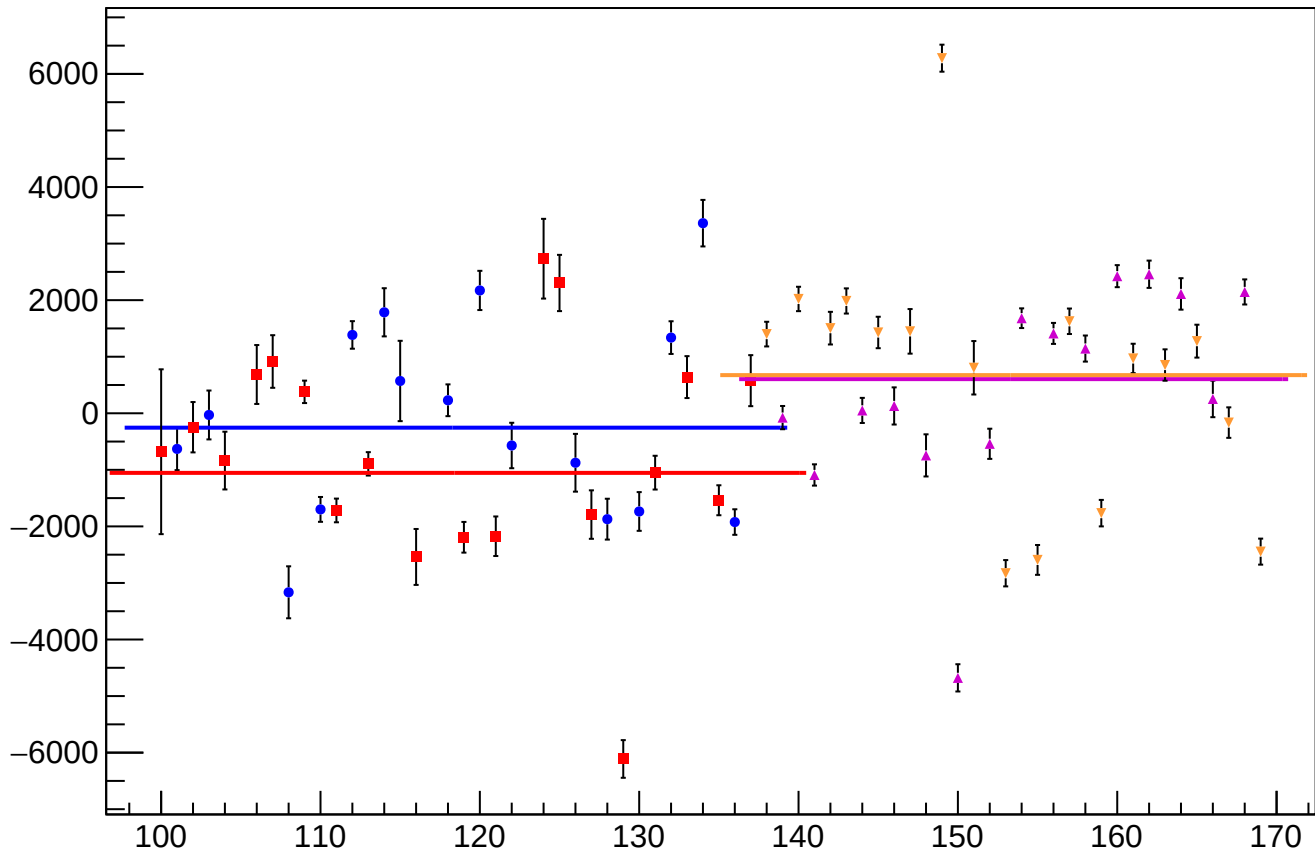
Right: 193.789 $\pm$ 0.038 χ^2 /NDF: 2601774.8/34

In: 195.482 $\pm$ 0.033 χ^2 /NDF: 1929666.7/30

Out: 203.036 $\pm$ 0.033 χ^2 /NDF: 2427686.4/35

All: 199.234 $\pm$ 0.023 χ^2 /NDF: 4383943.4/66

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -254.470+/-82.490 χ^2/NDF : 409.3/15

Left Out: 674.631+/-62.114 χ^2/NDF :1361.3/16

Right Out: -1053.731+/-75.969 χ^2/NDF : 477.7/18

Left In: 603.704+/-59.023 χ^2/NDF :900.2/14

Left: 637.359+/-42.787 χ^2/NDF : 2262.1/31

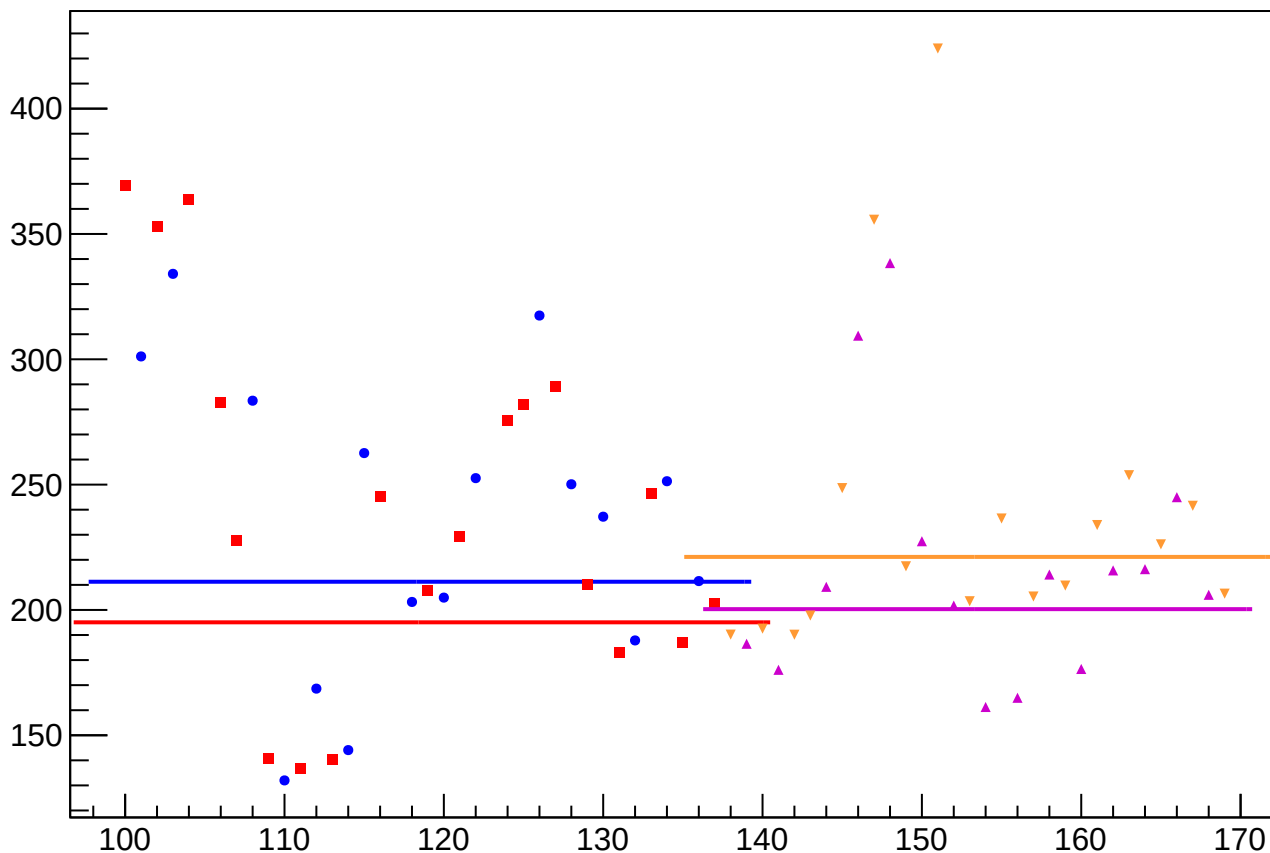
Right: -686.933+/-55.882 χ^2/NDF : 937.7/34

In: 313.119+/-48.001 χ^2/NDF :1381.0/30

Out: -17.857+/-48.087 χ^2/NDF :2149.2/35

All: 147.928+/-33.972 χ^2/NDF : 3553.9/66

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 211.254+/-0.058 χ^2/NDF : 884363.6/15

Left Out: 221.160+/-0.044 χ^2/NDF : 827865.4/16

Right Out: 195.061+/-0.054 χ^2/NDF : 1284879.9/18

Left In: 200.321+/-0.042 χ^2/NDF : 830337.4/14

Left: 210.209+/-0.030 χ^2/NDF : 1776500.3/31

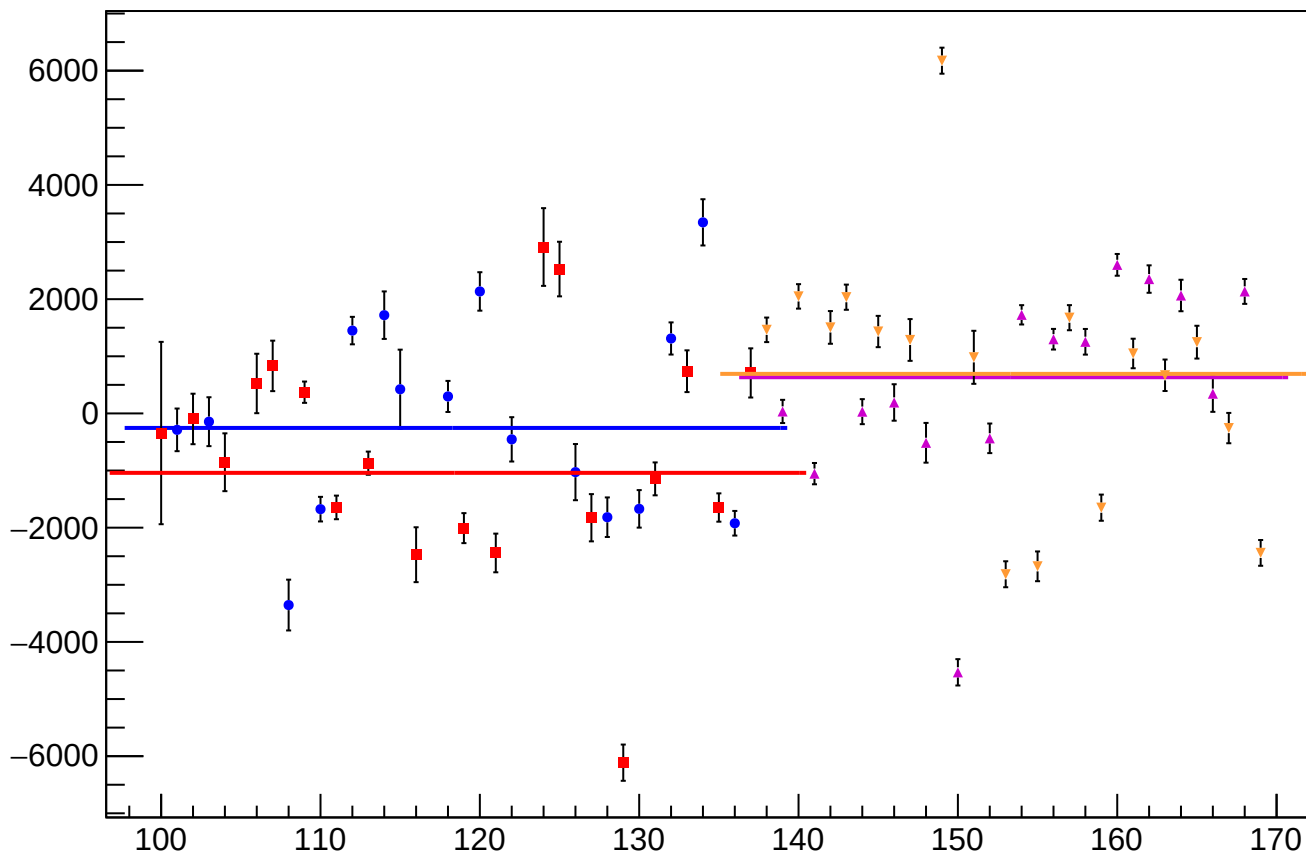
Right: 202.492+/-0.040 χ^2/NDF : 2210941.3/34

In: 204.023+/-0.034 χ^2/NDF : 1737935.4/30

Out: 210.703+/-0.034 χ^2/NDF : 2254216.0/35

All: 207.357+/-0.024 χ^2/NDF : 4011485.2/66

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -254.044+/-80.222 χ^2/NDF : 432.1/15

Left Out: 692.255+/-60.982 χ^2/NDF :1428.6/16

Right Out: -1040.361+/-73.363 χ^2/NDF : 533.4/18

Left In: 633.489+/-57.727 χ^2/NDF :926.0/14

Left: 661.262+/-41.923 χ^2/NDF : 2355.2/31

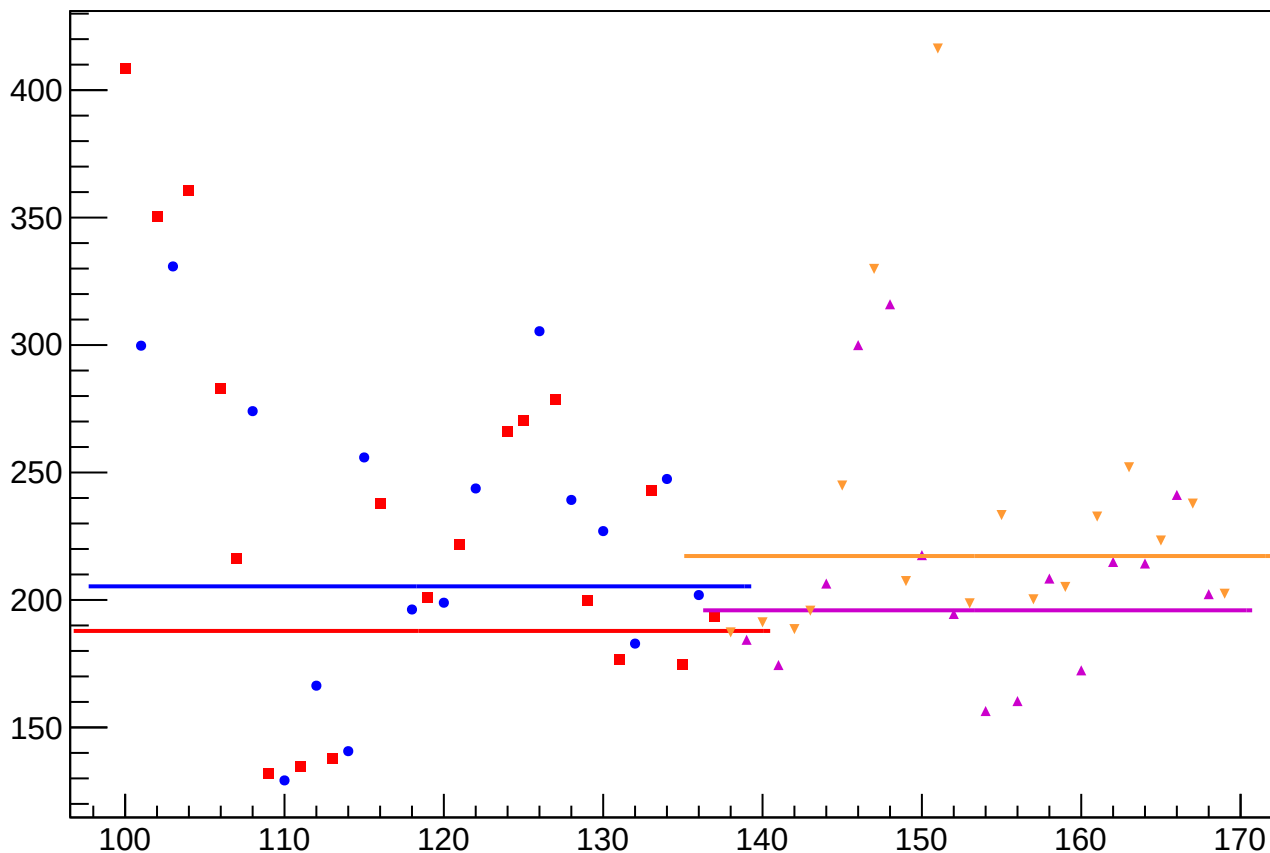
Right: -682.251+/-54.138 χ^2/NDF : 1017.8/34

In: 330.703+/-46.857 χ^2/NDF :1438.7/30

Out: -15.726+/-46.896 χ^2/NDF :2291.9/35

All: 157.634+/-33.147 χ^2/NDF : 3757.9/66

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 205.341+/-0.057 χ^2/NDF : 877398.6/15

Left Out: 217.233+/-0.043 χ^2/NDF : 788577.2/16

Right Out: 187.848+/-0.052 χ^2/NDF : 1337049.4/18

Left In: 195.937+/-0.041 χ^2/NDF : 793226.9/14

Left: 206.002+/-0.030 χ^2/NDF : 1710441.5/31

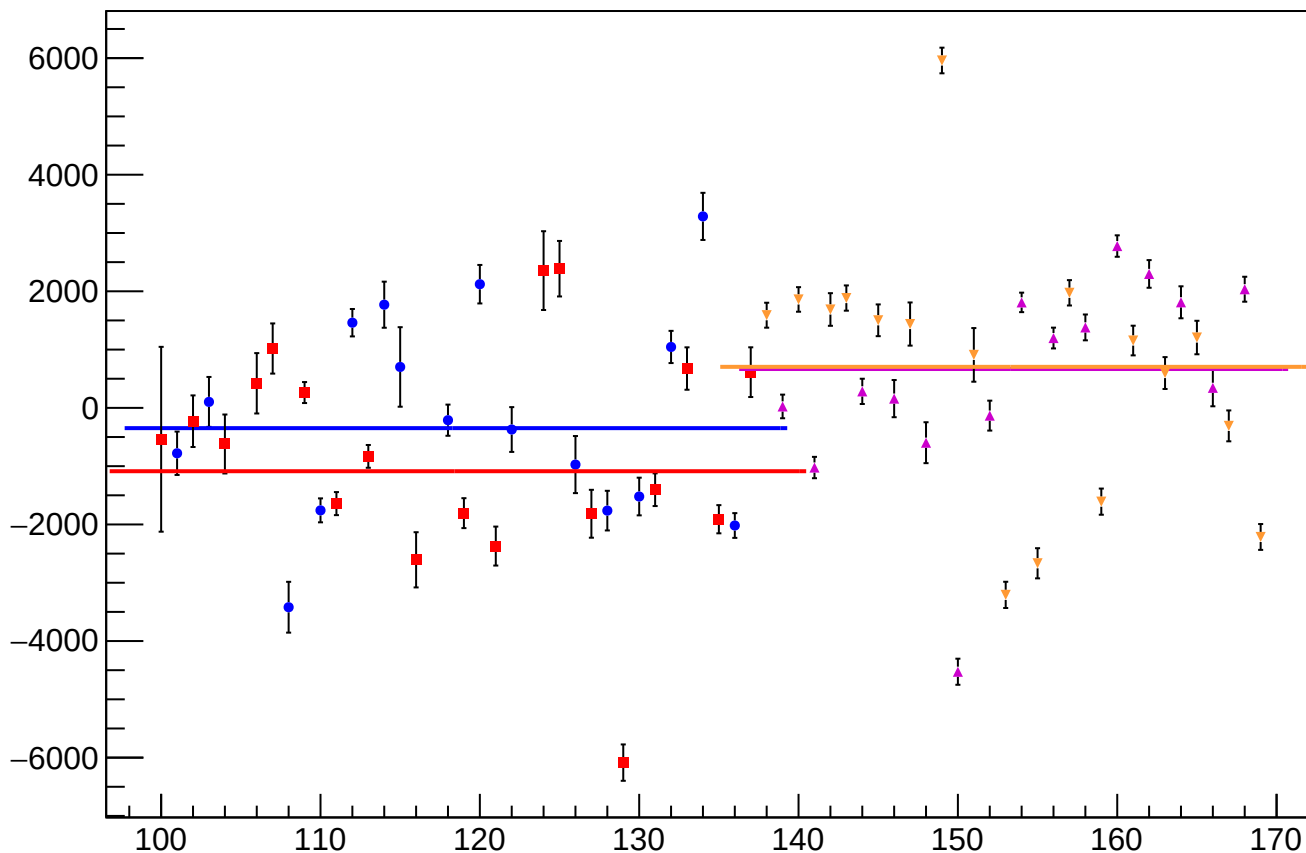
Right: 195.815+/-0.038 χ^2/NDF : 2266235.0/34

In: 199.145+/-0.033 χ^2/NDF : 1688732.6/30

Out: 205.226+/-0.033 χ^2/NDF : 2315383.6/35

All: 202.183+/-0.023 χ^2/NDF : 4020942.5/66

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: -347.666+/-78.567 χ^2/NDF : 445.8/15

Left Out: 703.967+/-60.219 χ^2/NDF : 1479.3/16

Right Out: -1086.638+/-71.539 χ^2/NDF : 527.2/18

Left In: 666.787+/-56.944 χ^2/NDF : 965.8/14

Left: 684.339+/-41.375 χ^2/NDF : 2445.3/31

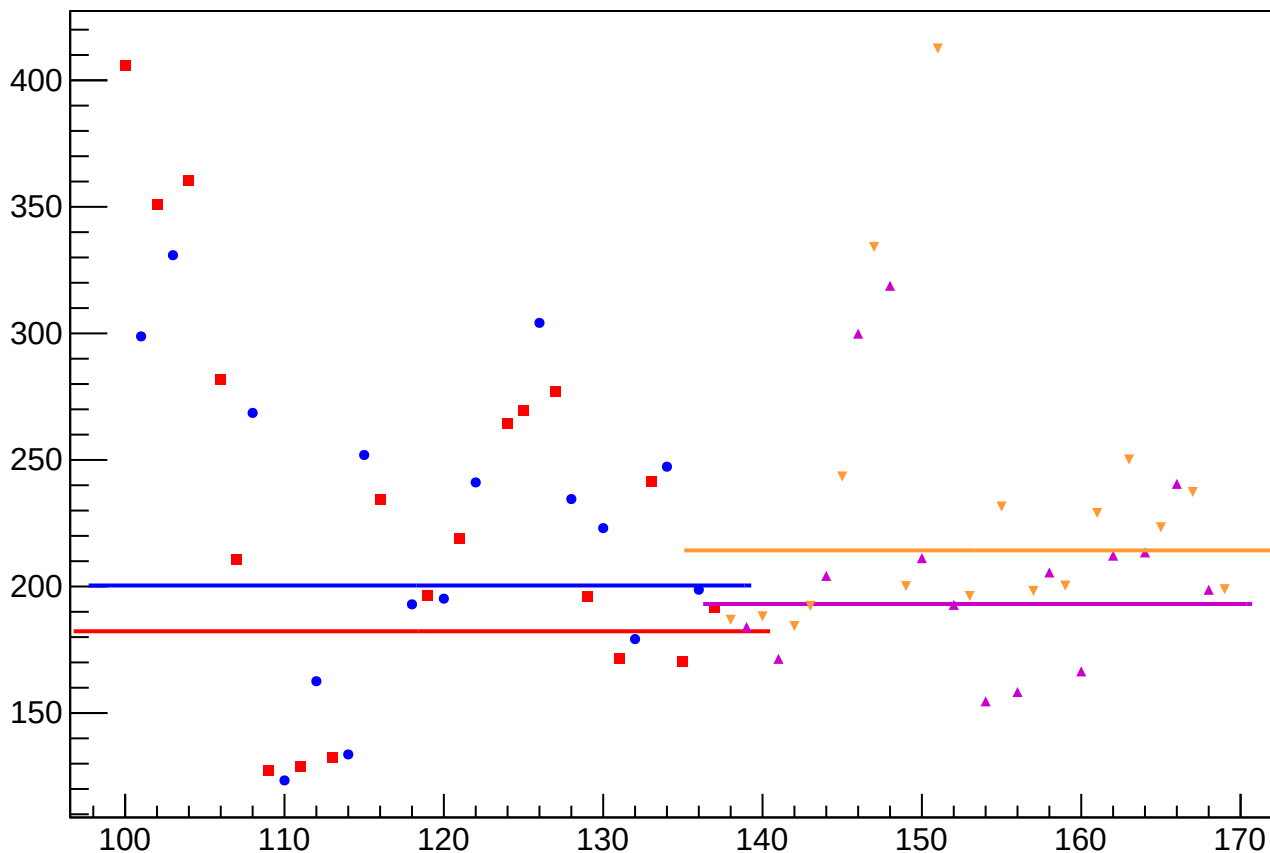
Right: -751.676+/-52.896 χ^2/NDF : 1021.4/34

In: 317.410+/-46.108 χ^2/NDF : 1520.9/30

Out: -38.628+/-46.070 χ^2/NDF : 2373.2/35

All: 139.246+/-32.590 χ^2/NDF : 3923.9/66

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 200.399 $\pm$ 0.056 χ^2 /NDF: 959000.8/15

Left Out: 214.272 $\pm$ 0.043 χ^2 /NDF: 827222.3/16

Right Out: 182.302 $\pm$ 0.051 χ^2 /NDF: 1447197.0/18

Left In: 193.089 $\pm$ 0.040 χ^2 /NDF: 831428.7/14

Left: 203.089 $\pm$ 0.029 χ^2 /NDF: 1789301.9/31

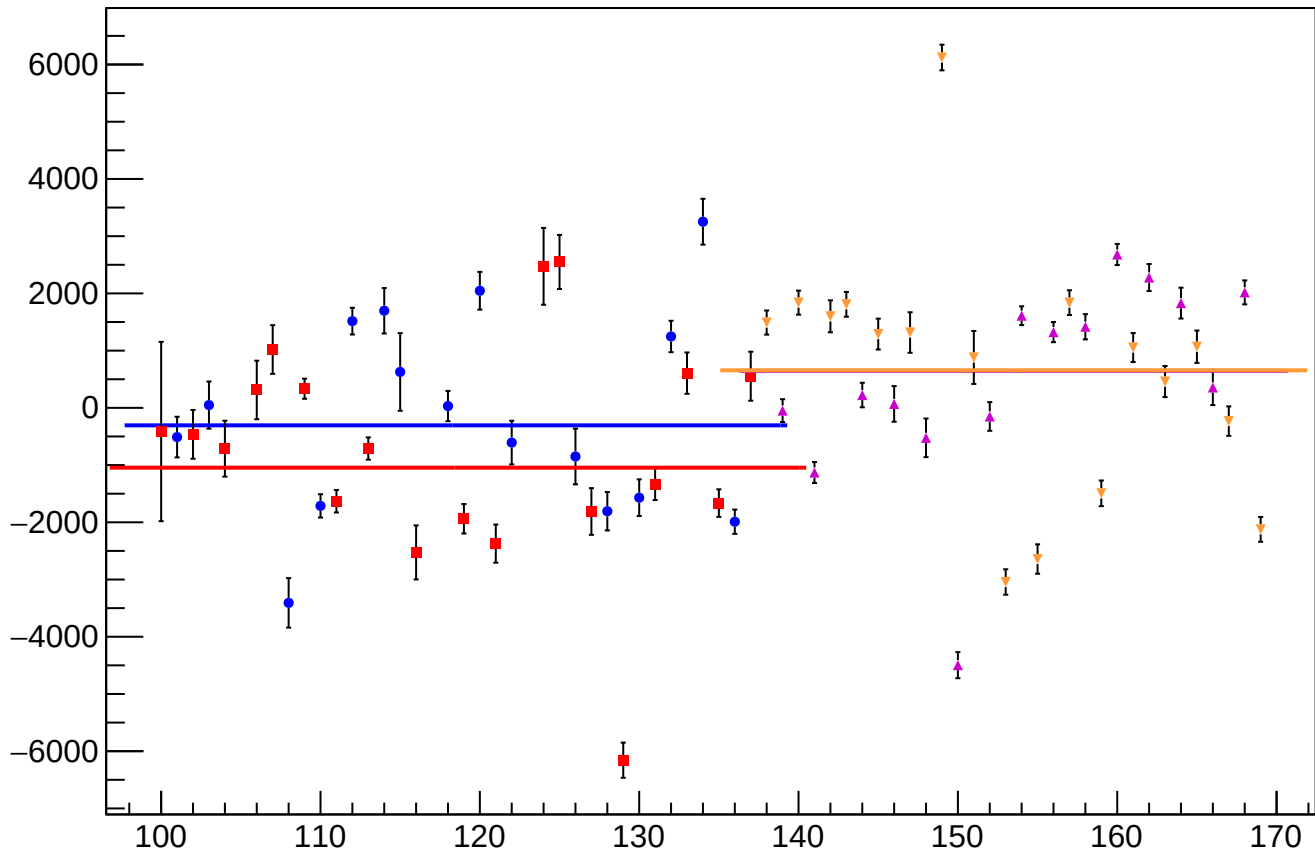
Right: 190.505 $\pm$ 0.037 χ^2 /NDF: 2464212.0/34

In: 195.607 $\pm$ 0.033 χ^2 /NDF: 1801779.1/30

Out: 201.013 $\pm$ 0.033 χ^2 /NDF: 2508202.2/35

All: 198.312 $\pm$ 0.023 χ^2 /NDF: 4323743.9/66

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -305.649 ± 77.868 $\chi^2/\text{NDF}: 451.8/15$

Left Out: 655.830 ± 59.750 $\chi^2/\text{NDF}: 1434.4/16$

Right Out: -1045.144 ± 70.824 $\chi^2/\text{NDF}: 552.2/18$

Left In: 646.264 ± 56.311 $\chi^2/\text{NDF}: 937.6/14$

Left: 650.764 ± 40.980 $\chi^2/\text{NDF}: 2372.0/31$

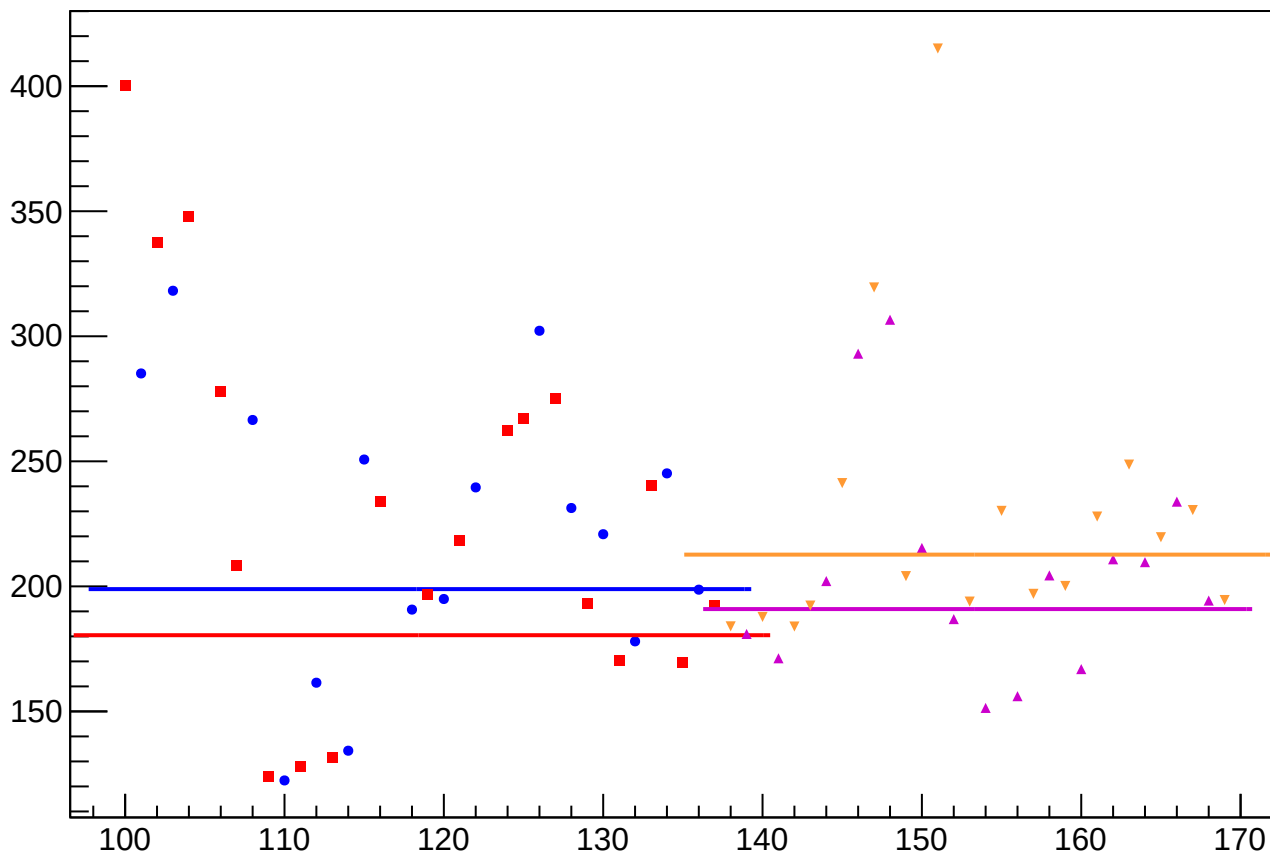
Right: -710.354 ± 52.394 $\chi^2/\text{NDF}: 1053.3/34$

In: 319.396 ± 45.630 $\chi^2/\text{NDF}: 1487.5/30$

Out: -51.432 ± 45.669 $\chi^2/\text{NDF}: 2323.5/35$

All: 134.140 ± 32.279 $\chi^2/\text{NDF}: 3844.1/66$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 198.903+/-0.055 χ^2/NDF : 912765.0/15

Left Out: 212.694+/-0.042 χ^2/NDF : 800978.4/16

Right Out: 180.473+/-0.050 χ^2/NDF : 1434435.8/18

Left In: 190.921+/-0.040 χ^2/NDF : 805324.2/14

Left: 201.163+/-0.029 χ^2/NDF : 1746964.0/31

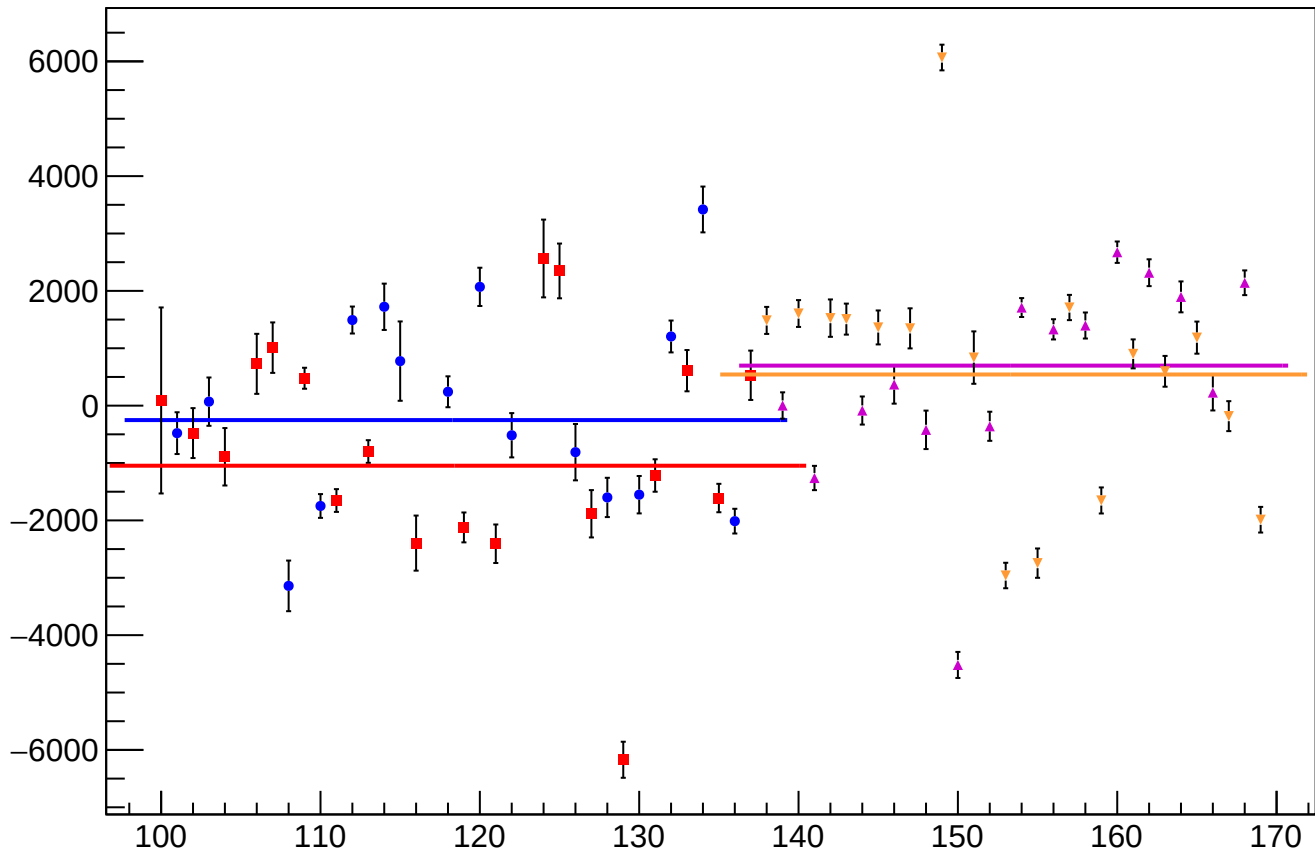
Right: 188.816+/-0.037 χ^2/NDF : 2408514.3/34

In: 193.661+/-0.032 χ^2/NDF : 1731888.2/30

Out: 199.297+/-0.032 χ^2/NDF : 2477256.2/35

All: 196.477+/-0.023 χ^2/NDF : 4224383.3/66

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -251.795 $\pm$ 78.974 χ^2/NDF : 441.2/15

Left Out: 542.894 $\pm$ 62.451 χ^2/NDF :1359.8/16

Right Out: -1047.132 $\pm$ 72.190 χ^2/NDF : 546.7/18

Left In: 697.508 $\pm$ 58.537 χ^2/NDF :949.7/14

Left: 625.198 $\pm$ 42.709 χ^2/NDF : 2312.8/31

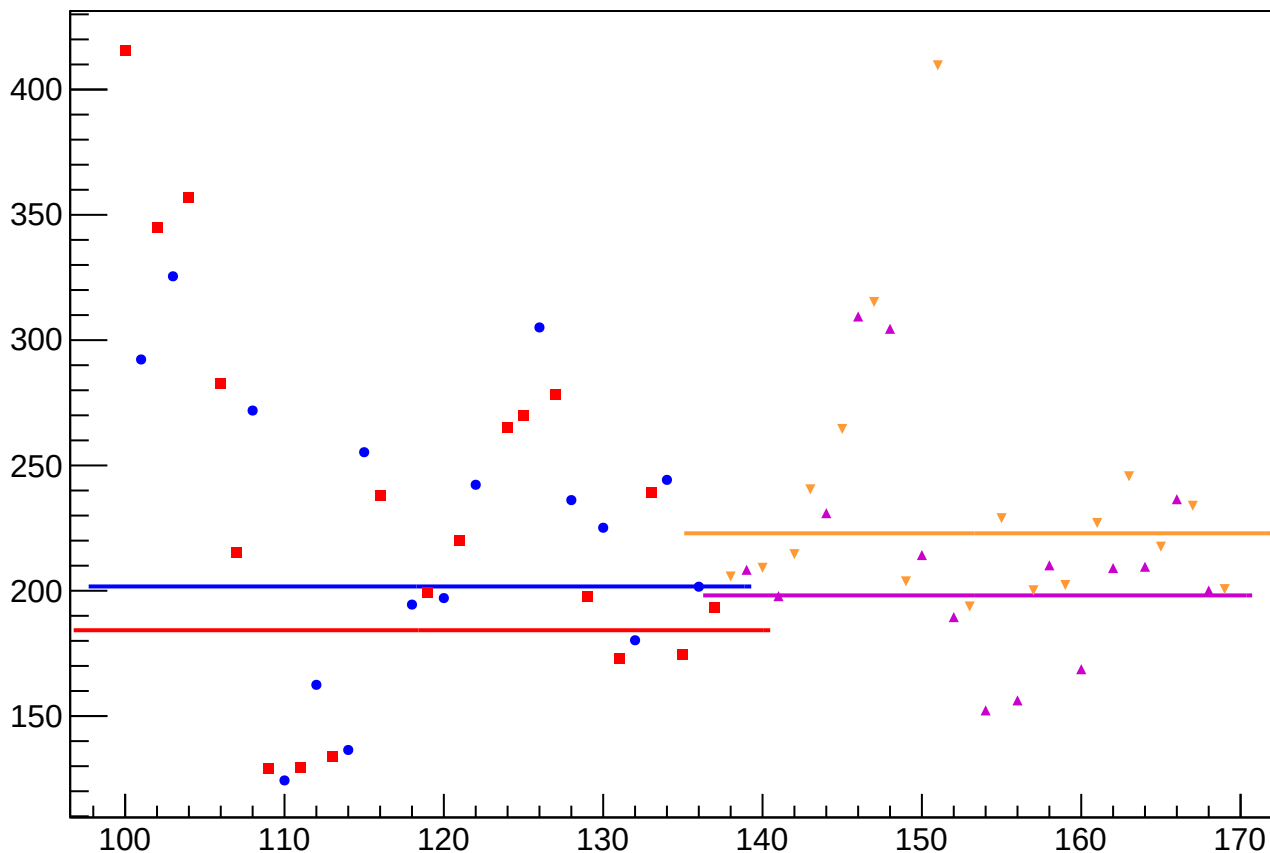
Right: -685.086 $\pm$ 53.283 χ^2/NDF : 1043.2/34

In: 360.893 $\pm$ 47.027 χ^2/NDF :1484.2/30

Out: -137.708 $\pm$ 47.230 χ^2/NDF :2184.0/35

All: 112.667 $\pm$ 33.325 χ^2/NDF : 3724.2/66

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 201.714 $\pm$ 0.056 χ^2 /NDF: 924210.1/15

Left Out: 222.922 $\pm$ 0.044 χ^2 /NDF: 668236.9/16

Right Out: 184.244 $\pm$ 0.051 χ^2 /NDF: 1403761.8/18

Left In: 198.143 $\pm$ 0.041 χ^2 /NDF: 837885.1/14

Left: 209.732 $\pm$ 0.030 χ^2 /NDF: 1673724.5/31

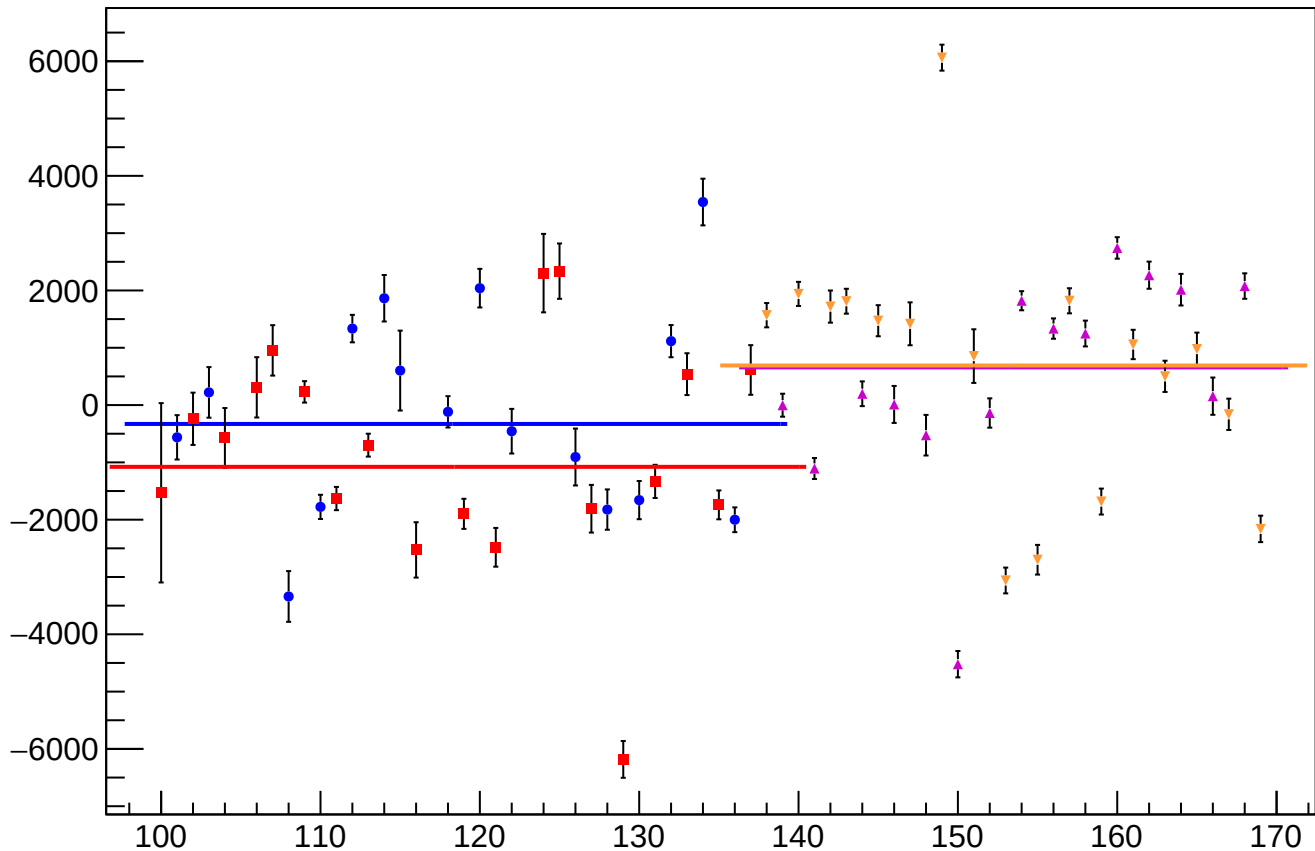
Right: 192.196 $\pm$ 0.038 χ^2 /NDF: 2381288.1/34

In: 199.409 $\pm$ 0.033 χ^2 /NDF: 1764733.3/30

Out: 206.366 $\pm$ 0.033 χ^2 /NDF: 2400374.6/35

All: 202.873 $\pm$ 0.024 χ^2 /NDF: 4186897.5/66

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: -329.377 ± 80.367 $\chi^2/\text{NDF}: 436.4/15$

Left Out: 690.738 ± 60.677 $\chi^2/\text{NDF}: 1418.4/16$

Right Out: -1077.876 ± 73.404 $\chi^2/\text{NDF}: 502.0/18$

Left In: 657.259 ± 57.307 $\chi^2/\text{NDF}: 947.3/14$

Left: 673.043 ± 41.663 $\chi^2/\text{NDF}: 2365.9/31$

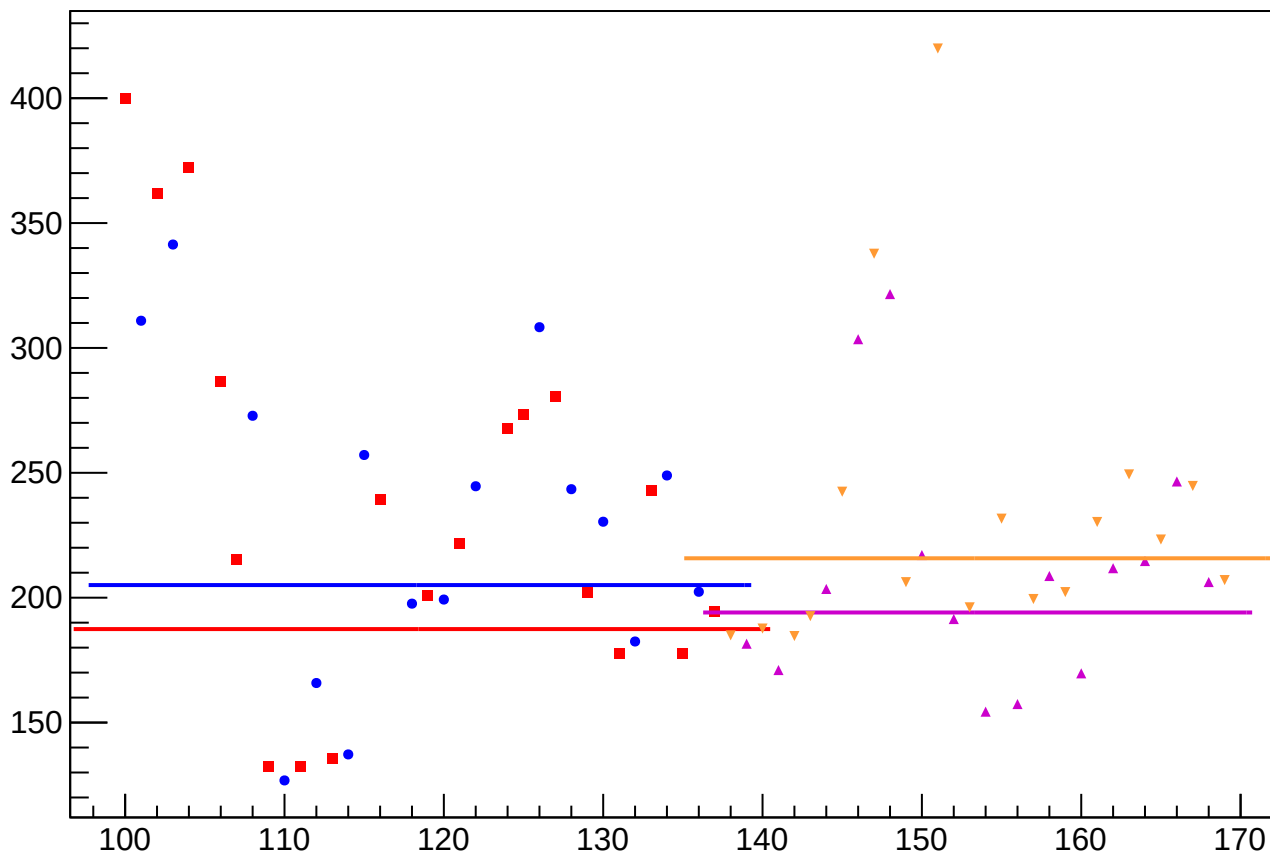
Right: -737.449 ± 54.199 $\chi^2/\text{NDF}: 985.7/34$

In: 324.693 ± 46.659 $\chi^2/\text{NDF}: 1483.7/30$

Out: -27.187 ± 46.768 $\chi^2/\text{NDF}: 2265.2/35$

All: 149.160 ± 33.031 $\chi^2/\text{NDF}: 3777.2/66$

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 205.053+/-0.057 χ^2/NDF : 963052.0/15

Left Out: 215.778+/-0.043 χ^2/NDF : 845661.9/16

Right Out: 187.431+/-0.052 χ^2/NDF : 1410802.2/18

Left In: 194.074+/-0.041 χ^2/NDF : 873563.7/14

Left: 204.307+/-0.029 χ^2/NDF : 1854478.7/31

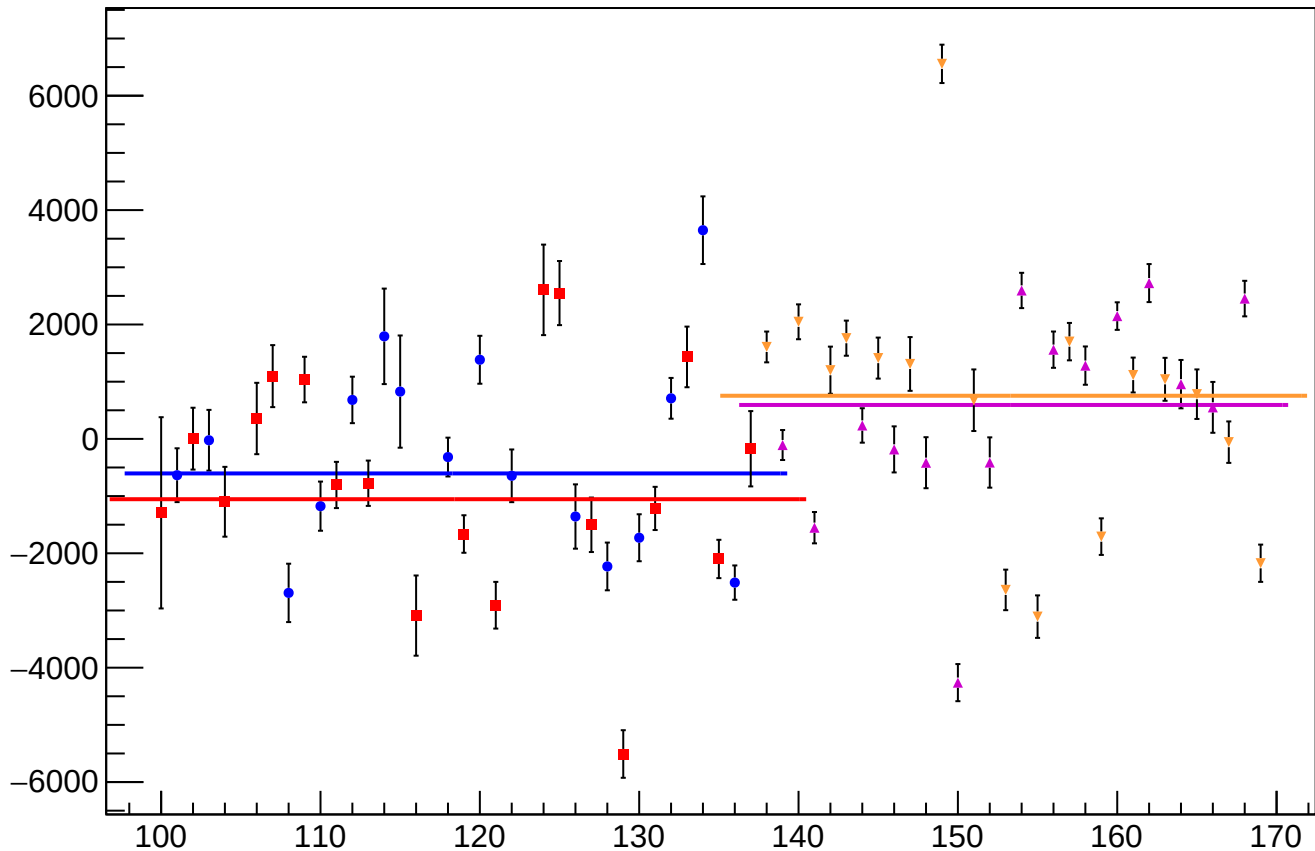
Right: 195.446+/-0.038 χ^2/NDF : 2426275.9/34

In: 197.775+/-0.033 χ^2/NDF : 1861358.5/30

Out: 204.271+/-0.033 χ^2/NDF : 2433655.2/35

All: 201.016+/-0.023 χ^2/NDF : 4314356.0/66

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -603.855+/-110.693 χ^2/NDF : 193.5/15

Left Out: 754.221+/-84.444 χ^2/NDF : 699.3/16

Right Out: -1054.556+/-108.264 χ^2/NDF : 297.7/18

Left In: 593.197+/-84.091 χ^2/NDF : 482.6/14

Left: 673.372+/-59.586 χ^2/NDF : 1183.7/31

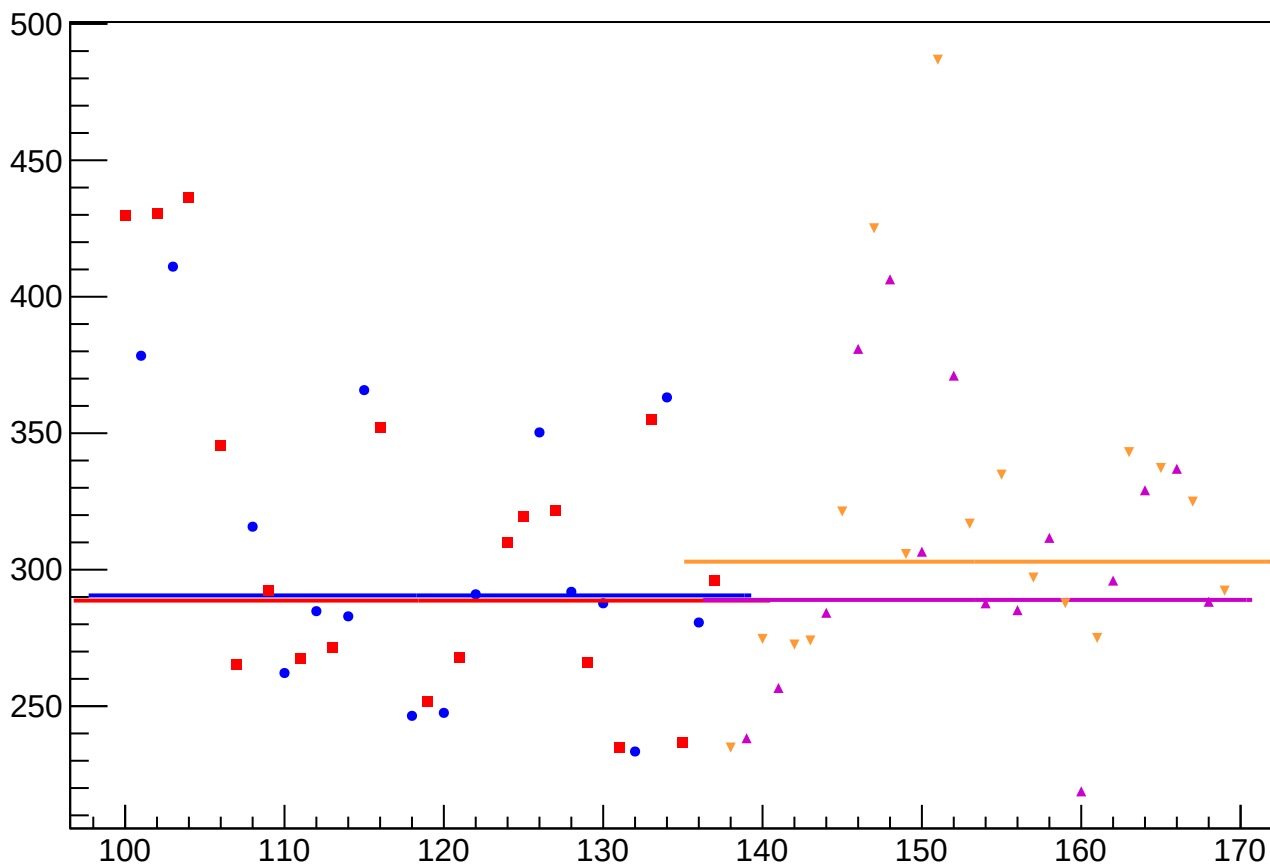
Right: -834.205+/-77.398 χ^2/NDF : 499.7/34

In: 155.159+/-66.960 χ^2/NDF : 750.3/30

Out: 70.046+/-66.585 χ^2/NDF : 1170.5/35

All: 112.363+/-47.215 χ^2/NDF : 1921.6/66

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 290.566+/-0.078 χ^2/NDF : 359807.1/15

Left Out: 302.934+/-0.060 χ^2/NDF : 632266.3/16

Right Out: 288.686+/-0.077 χ^2/NDF : 489094.8/18

Left In: 288.929+/-0.059 χ^2/NDF : 643131.1/14

Left: 295.902+/-0.042 χ^2/NDF : 1303020.0/31

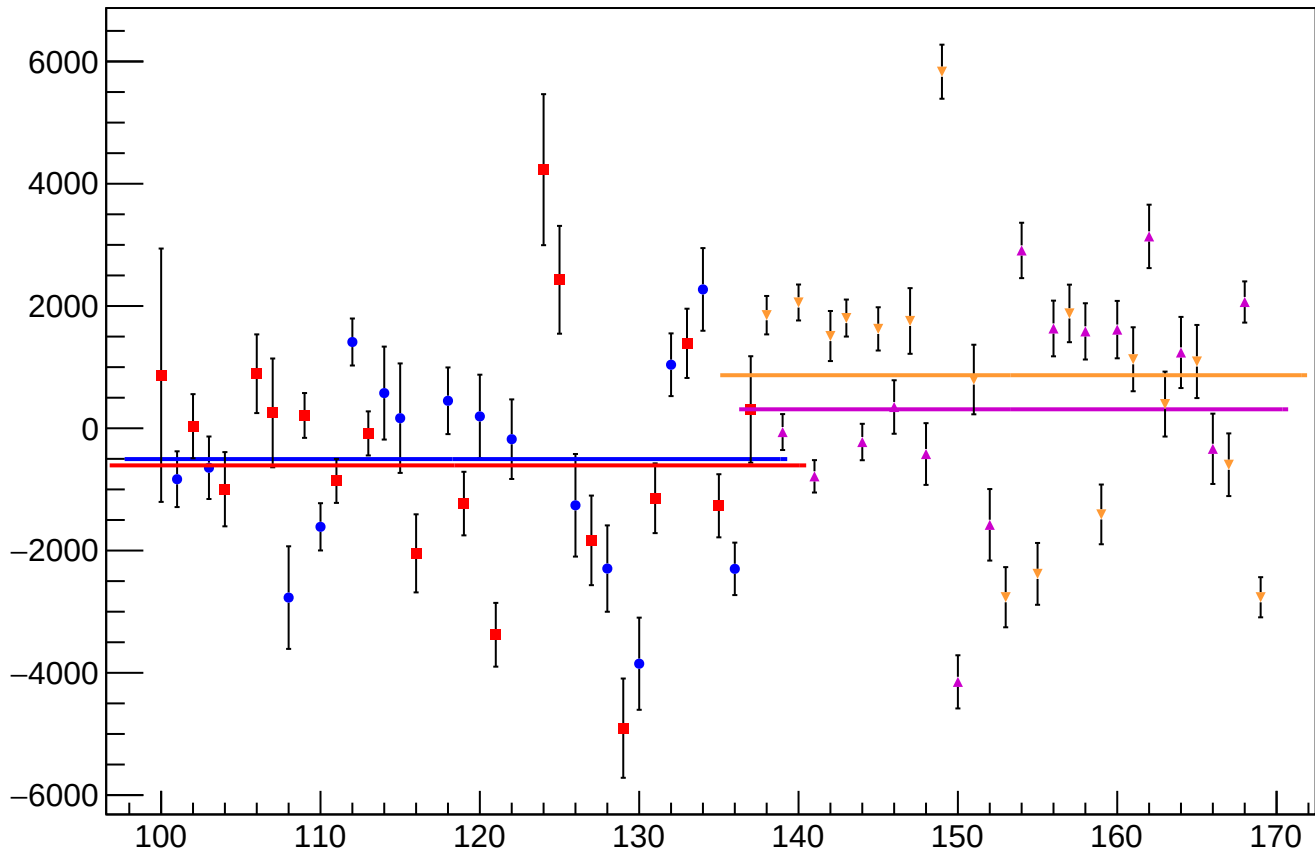
Right: 289.605+/-0.055 χ^2/NDF : 849196.8/34

In: 289.528+/-0.047 χ^2/NDF : 1003215.6/30

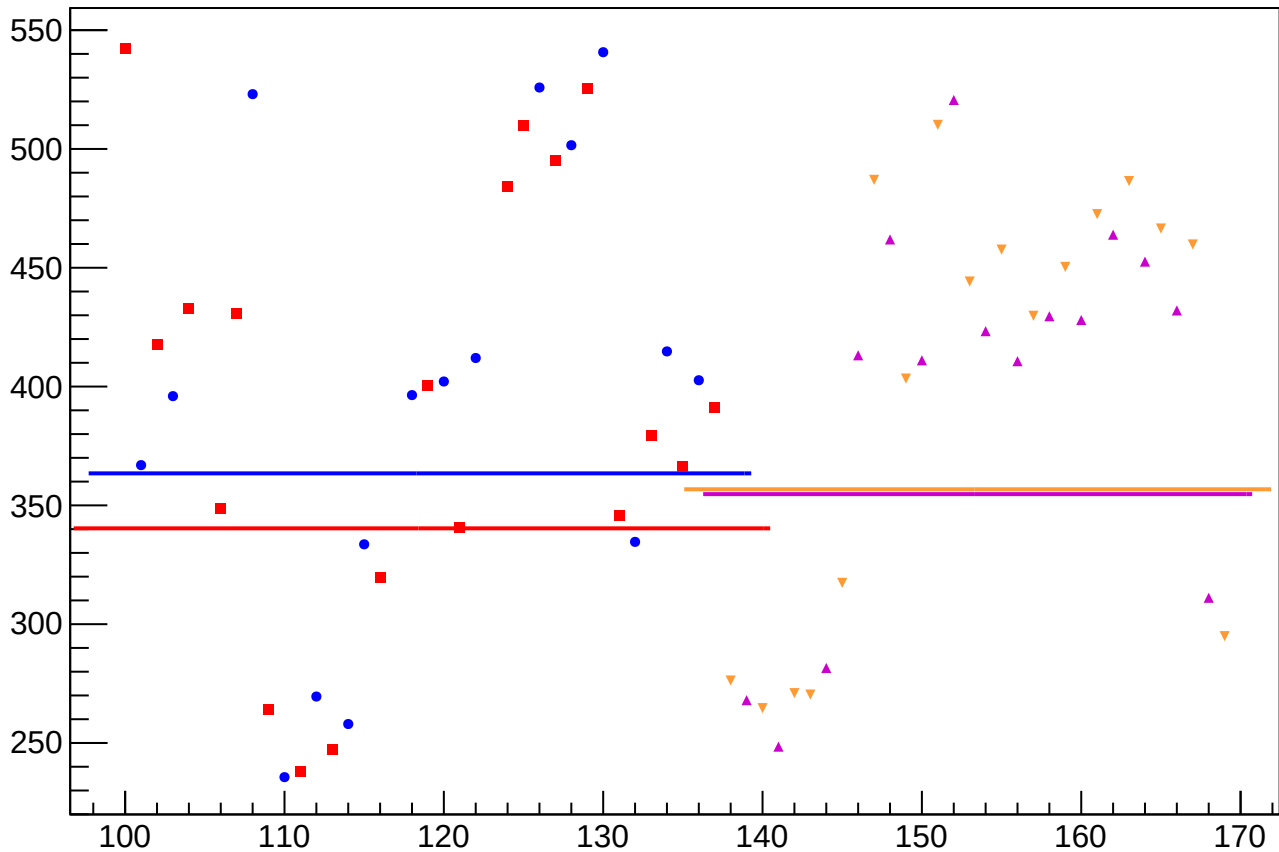
Out: 297.545+/-0.047 χ^2/NDF : 1142899.0/35

All: 293.559+/-0.033 χ^2/NDF : 2160528.9/66

asym_bpm0r05WS_mean vs Slug, Sign Corrected



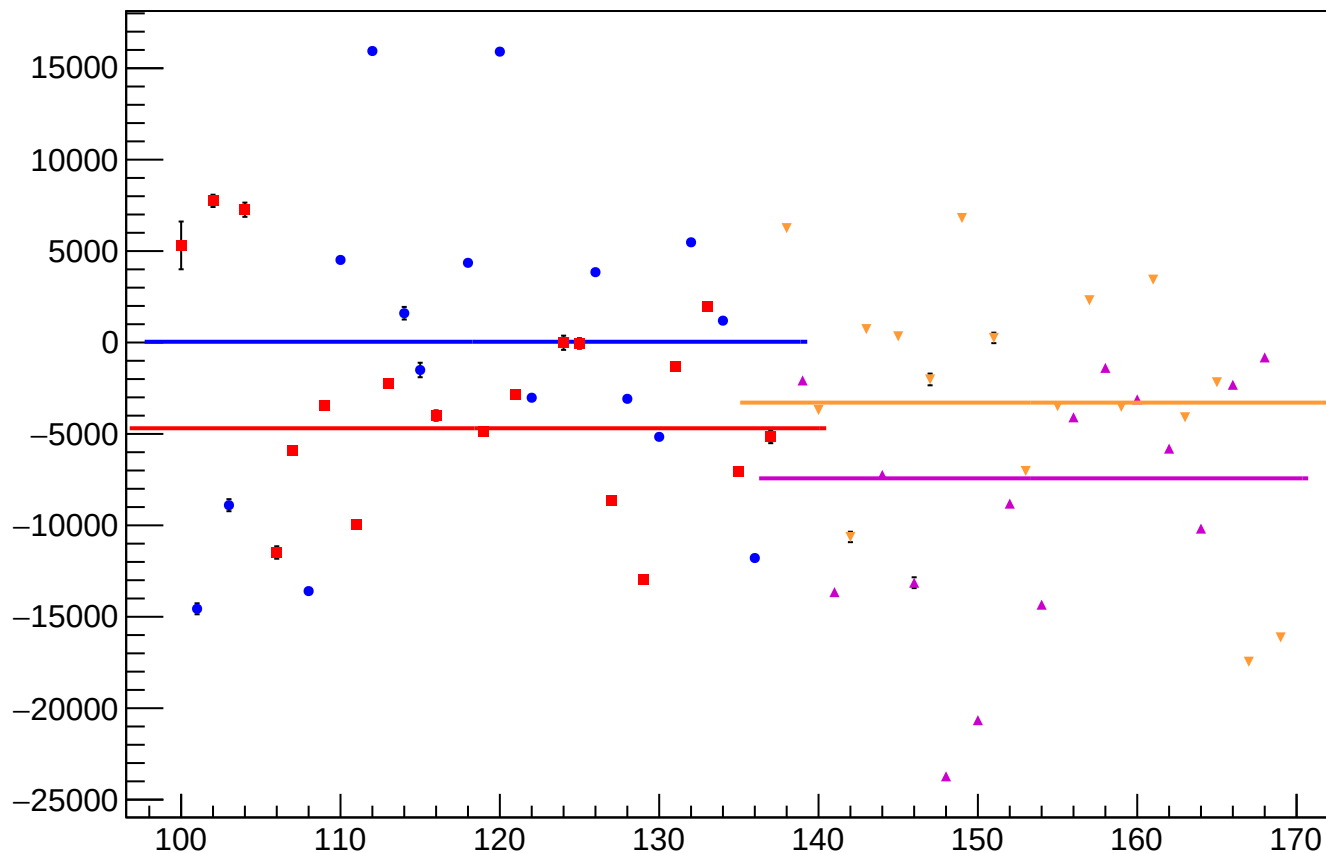
asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 363.471+/-0.099 χ^2/NDF : 780893.2/15
 Left Out: 356.773+/-0.071 χ^2/NDF :1588323.5/16
 Right Out: 340.332+/-0.092 χ^2/NDF : 856230.3/18
 Left In: 354.738+/-0.074 χ^2/NDF :1329071.5/14

Left: 355.789+/-0.051 χ^2/NDF : 2917787.6/31
 Right: 351.006+/-0.067 χ^2/NDF : 1666529.8/34
 In: 357.854+/-0.059 χ^2/NDF :2114965.5/30
 Out: 350.561+/-0.056 χ^2/NDF :2464575.7/35
 All: 354.029+/-0.041 χ^2/NDF : 4587512.6/66

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 40.915+/-54.199 χ^2/NDF : 30786.3/15

Left Out: -3287.074+/-47.001 χ^2/NDF : 20109.9/16

Right Out: -4689.710+/-52.095 χ^2/NDF : 7795.7/18

Left In: -7429.273+/-49.502 χ^2/NDF : 16829.8/14

Left: -5250.889+/-34.085 χ^2/NDF : 40622.0/31

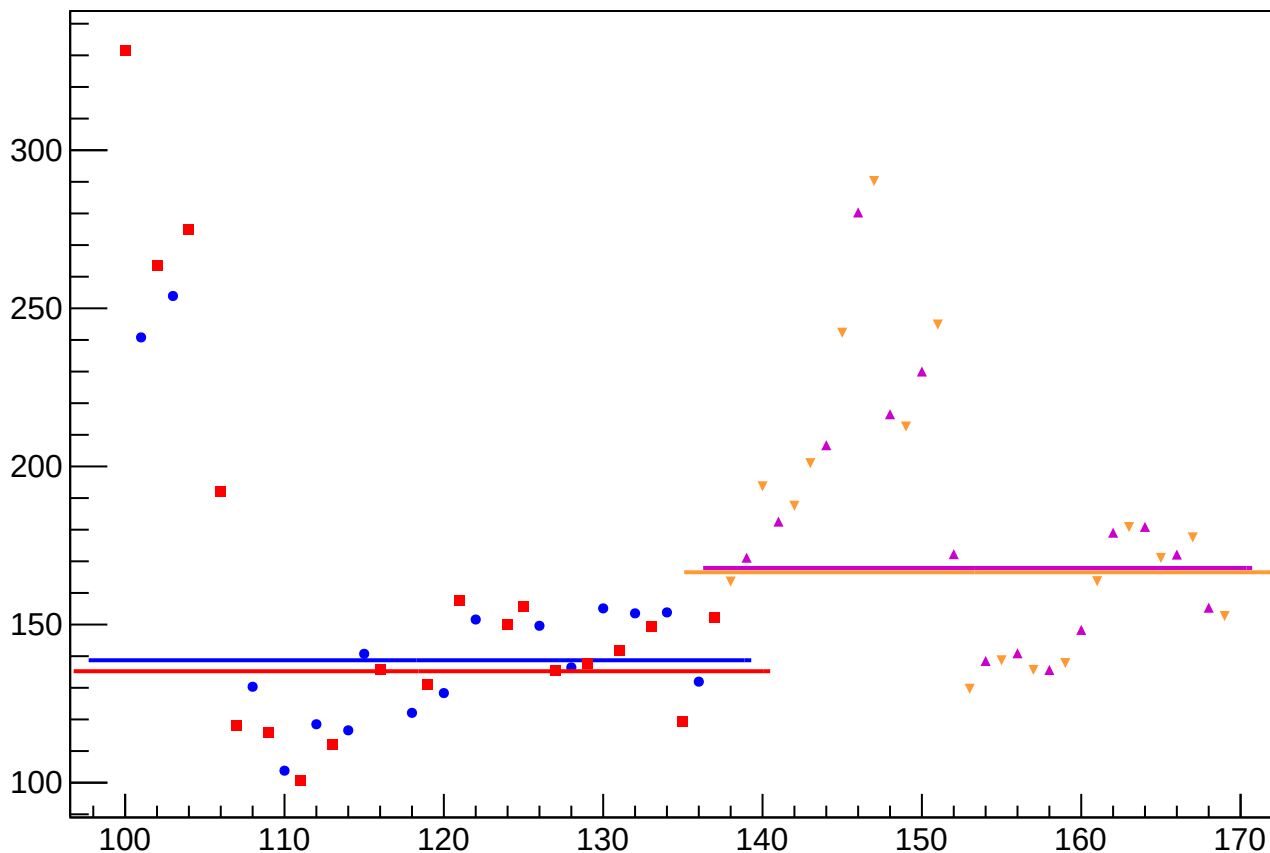
Right: -2417.983+/-37.558 χ^2/NDF : 42541.9/34

In: -4031.808+/-36.551 χ^2/NDF : 57973.3/30

Out: -3916.479+/-34.897 χ^2/NDF : 28305.2/35

All: -3971.475+/-25.240 χ^2/NDF : 86283.7/66

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 138.712 $\pm$ 0.038 χ^2 /NDF: 657791.3/15

Left Out: 166.540 $\pm$ 0.033 χ^2 /NDF: 1157258.3/16

Right Out: 135.245 $\pm$ 0.037 χ^2 /NDF: 890024.8/18

Left In: 167.897 $\pm$ 0.035 χ^2 /NDF: 858469.1/14

Left: 167.184 $\pm$ 0.024 χ^2 /NDF: 2016518.2/31

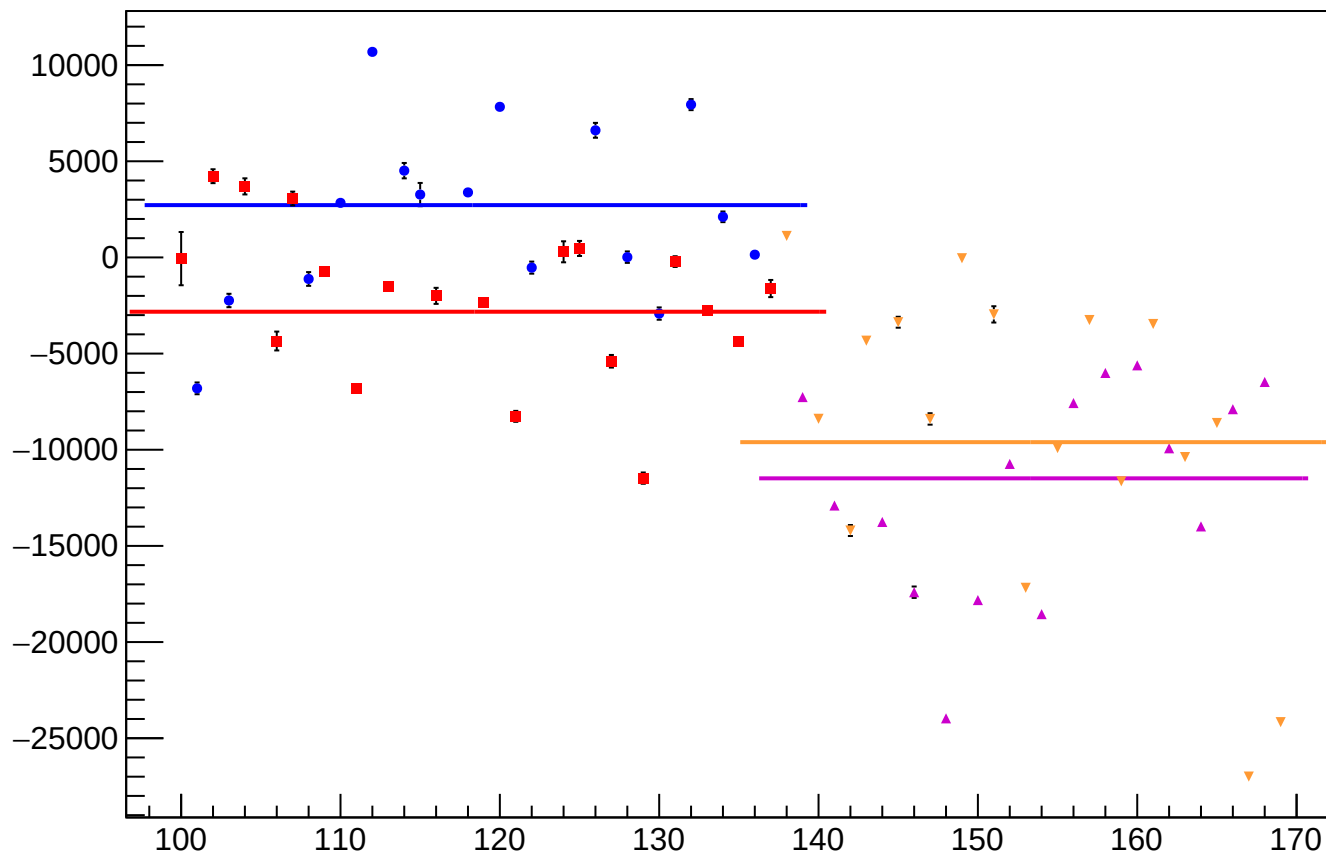
Right: 136.910 $\pm$ 0.027 χ^2 /NDF: 1552069.4/34

In: 154.624 $\pm$ 0.026 χ^2 /NDF: 1832443.5/30

Out: 152.497 $\pm$ 0.025 χ^2 /NDF: 2445158.4/35

All: 153.511 $\pm$ 0.018 χ^2 /NDF: 4281144.0/66

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 2719.896 $\pm$ 69.247 χ^2 /NDF: 4129.3/15

Left Out: -9605.541 $\pm$ 55.181 χ^2 /NDF:21589.0/16

Right Out: -2823.679 $\pm$ 64.850 χ^2 /NDF: 3062.8/18

Left In: -11487.301 $\pm$ 52.003 χ^2 /NDF:10196.1/14

Left: -10602.178 $\pm$ 37.845 χ^2 /NDF: 32401.0/31

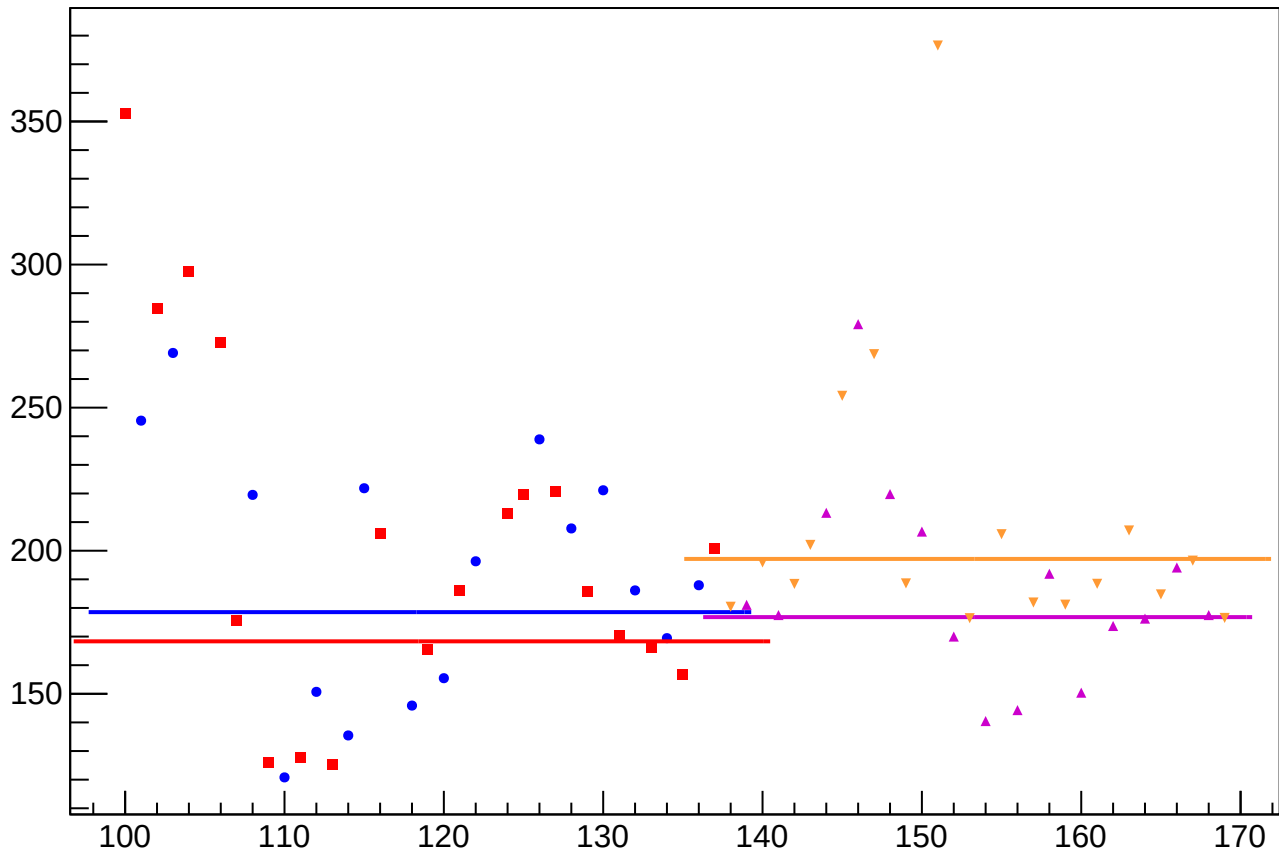
Right: -233.460 $\pm$ 47.334 χ^2 /NDF: 10606.3/34

In: -6364.196 $\pm$ 41.583 χ^2 /NDF:41240.0/30

Out: -6757.374 $\pm$ 42.026 χ^2 /NDF:30995.2/35

All: -6558.700 $\pm$ 29.559 χ^2 /NDF: 72279.5/66

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 178.541 $\pm$ 0.049 χ^2 /NDF: 674566.0/15

Left Out: 197.135 $\pm$ 0.039 χ^2 /NDF: 657198.8/16

Right Out: 168.335 $\pm$ 0.046 χ^2 /NDF: 979485.9/18

Left In: 176.803 $\pm$ 0.037 χ^2 /NDF: 657411.9/14

Left: 186.367 $\pm$ 0.027 χ^2 /NDF: 1458423.0/31

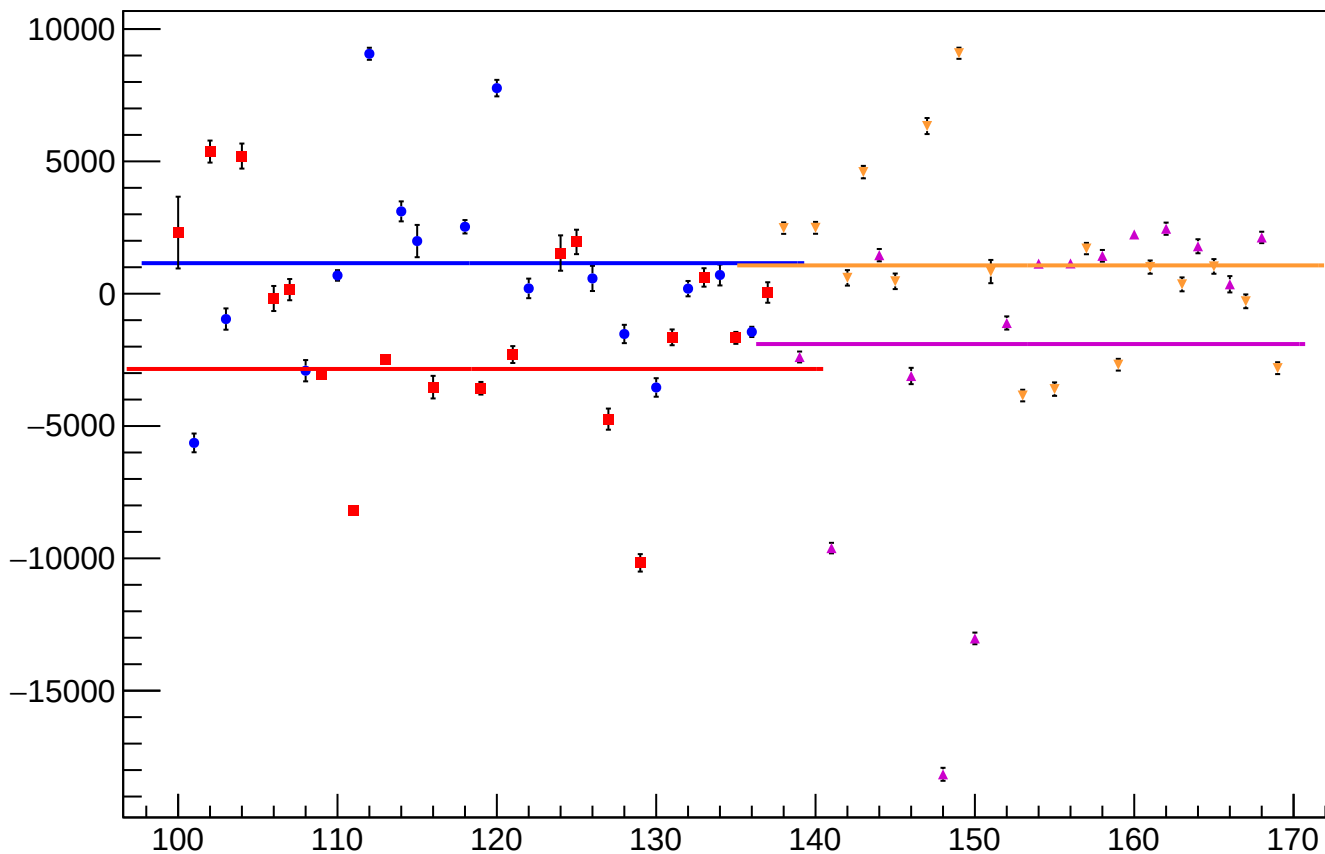
Right: 173.104 $\pm$ 0.033 χ^2 /NDF: 1677198.9/34

In: 177.430 $\pm$ 0.029 χ^2 /NDF: 1332783.6/30

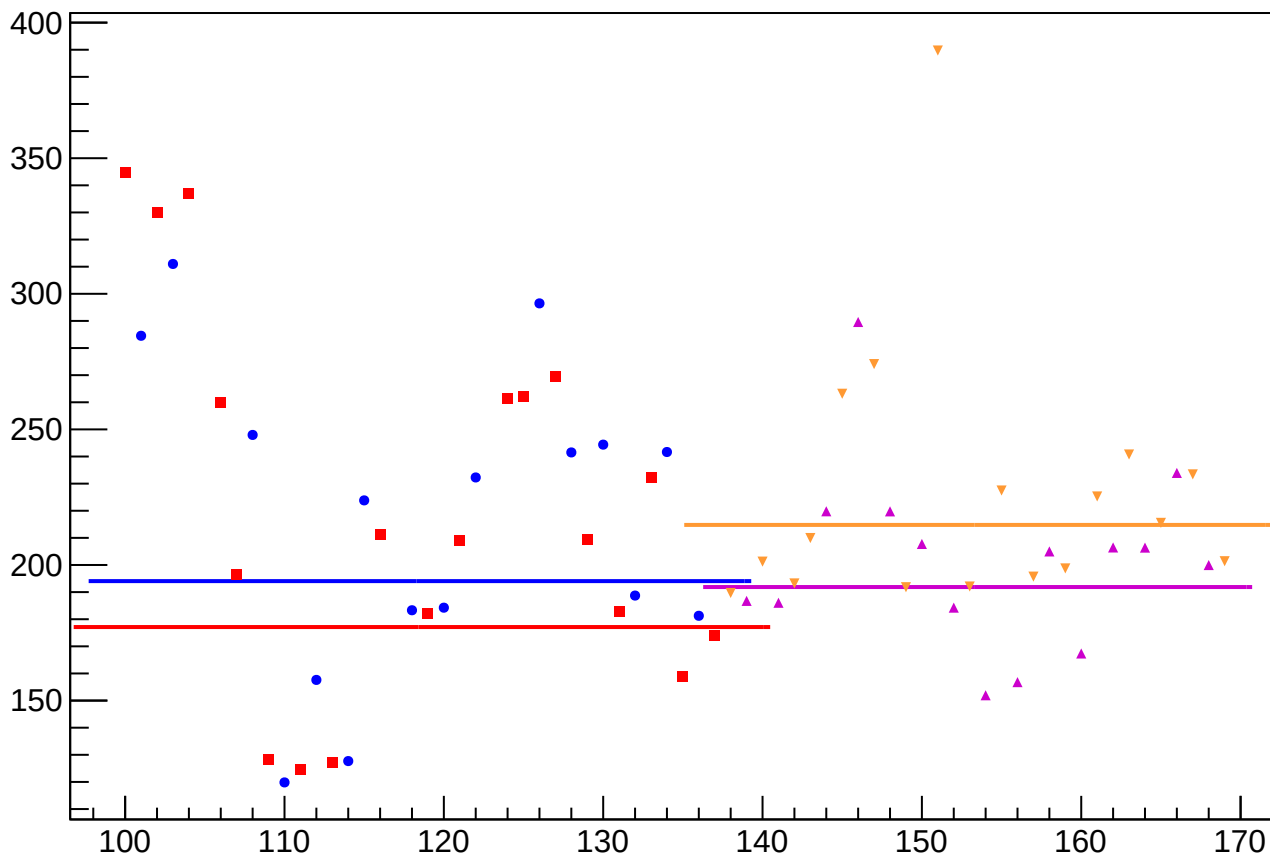
Out: 185.040 $\pm$ 0.030 χ^2 /NDF: 1865490.7/35

All: 181.194 $\pm$ 0.021 χ^2 /NDF: 3231414.0/66

asym_bpm0i05WS_mean vs Slug, Sign Corrected



asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.053+/-0.054 χ^2/NDF : 965786.1/15

Left Out: 214.775+/-0.042 χ^2/NDF : 609962.3/16

Right Out: 177.115+/-0.049 χ^2/NDF : 1359345.8/18

Left In: 191.869+/-0.040 χ^2/NDF : 563700.4/14

Left: 202.589+/-0.029 χ^2/NDF : 1328333.1/31

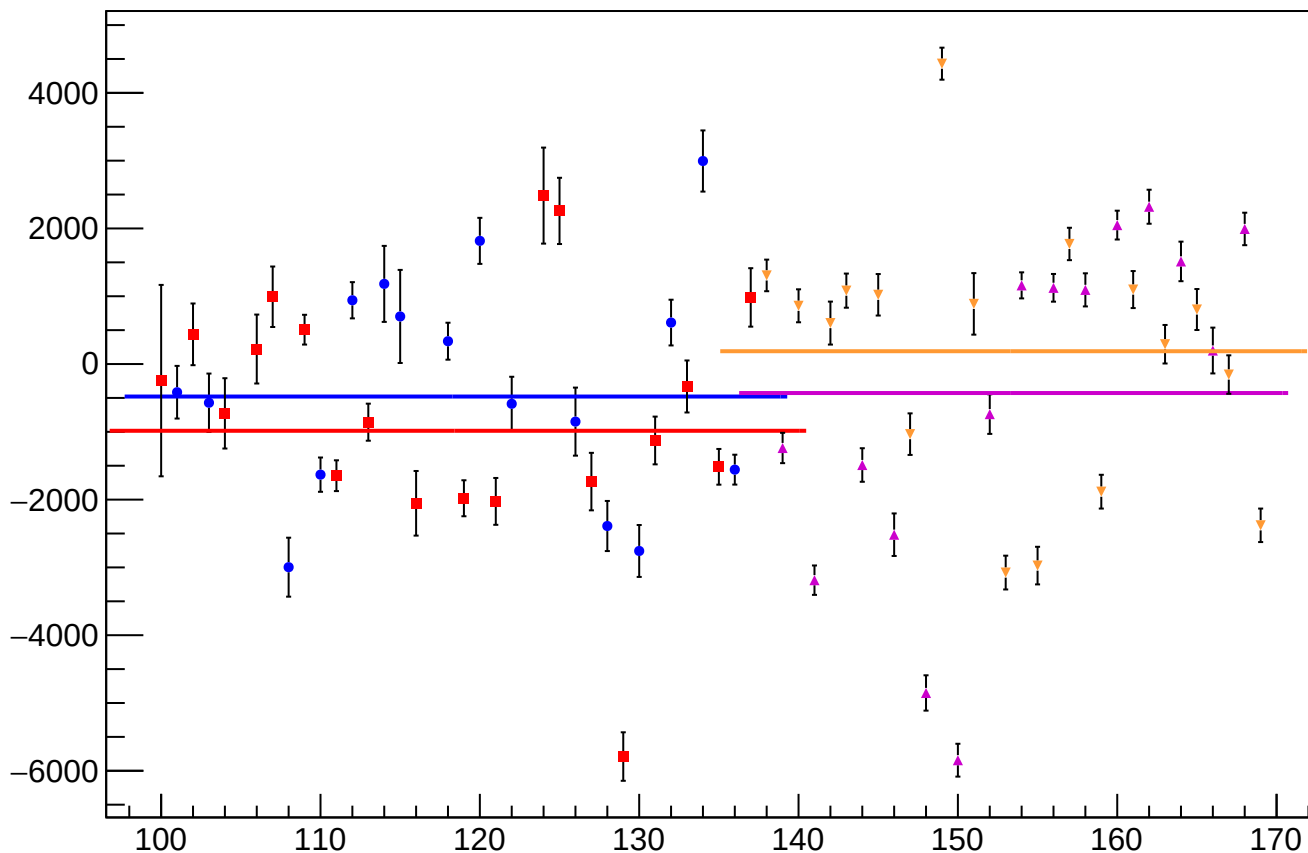
Right: 184.790+/-0.036 χ^2/NDF : 2379520.9/34

In: 192.644+/-0.032 χ^2/NDF : 1530553.3/30

Out: 198.573+/-0.032 χ^2/NDF : 2307409.8/35

All: 195.602+/-0.023 χ^2/NDF : 3855089.4/66

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -479.302+/-86.685 χ^2/NDF : 305.4/15

Left Out: 189.086+/-65.455 χ^2/NDF :932.7/16

Right Out: -984.498+/-80.945 χ^2/NDF : 398.1/18

Left In: -427.602+/-62.631 χ^2/NDF :1597.3/14

Left: -132.846+/-45.252 χ^2/NDF : 2576.4/31

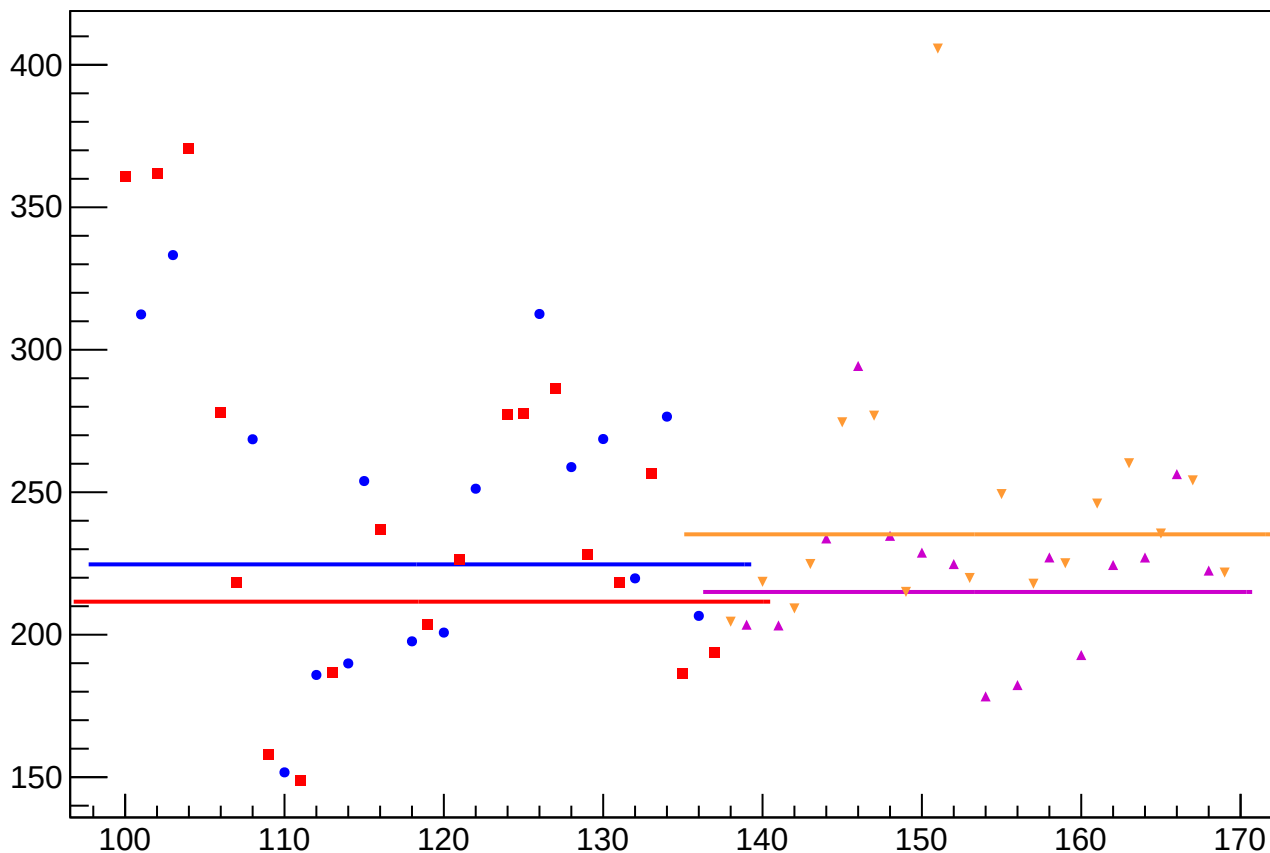
Right: -749.177+/-59.162 χ^2/NDF : 721.7/34

In: -445.334+/-50.767 χ^2/NDF :1903.0/30

Out: -274.902+/-50.897 χ^2/NDF :1458.0/35

All: -360.336+/-35.943 χ^2/NDF : 3366.6/66

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 224.683 $\pm$ 0.061 χ^2 /NDF: 653193.4/15

Left Out: 235.230 $\pm$ 0.046 χ^2 /NDF: 487638.5/16

Right Out: 211.595 $\pm$ 0.057 χ^2 /NDF: 932902.5/18

Left In: 215.002 $\pm$ 0.044 χ^2 /NDF: 359243.2/14

Left: 224.670 $\pm$ 0.032 χ^2 /NDF: 946596.1/31

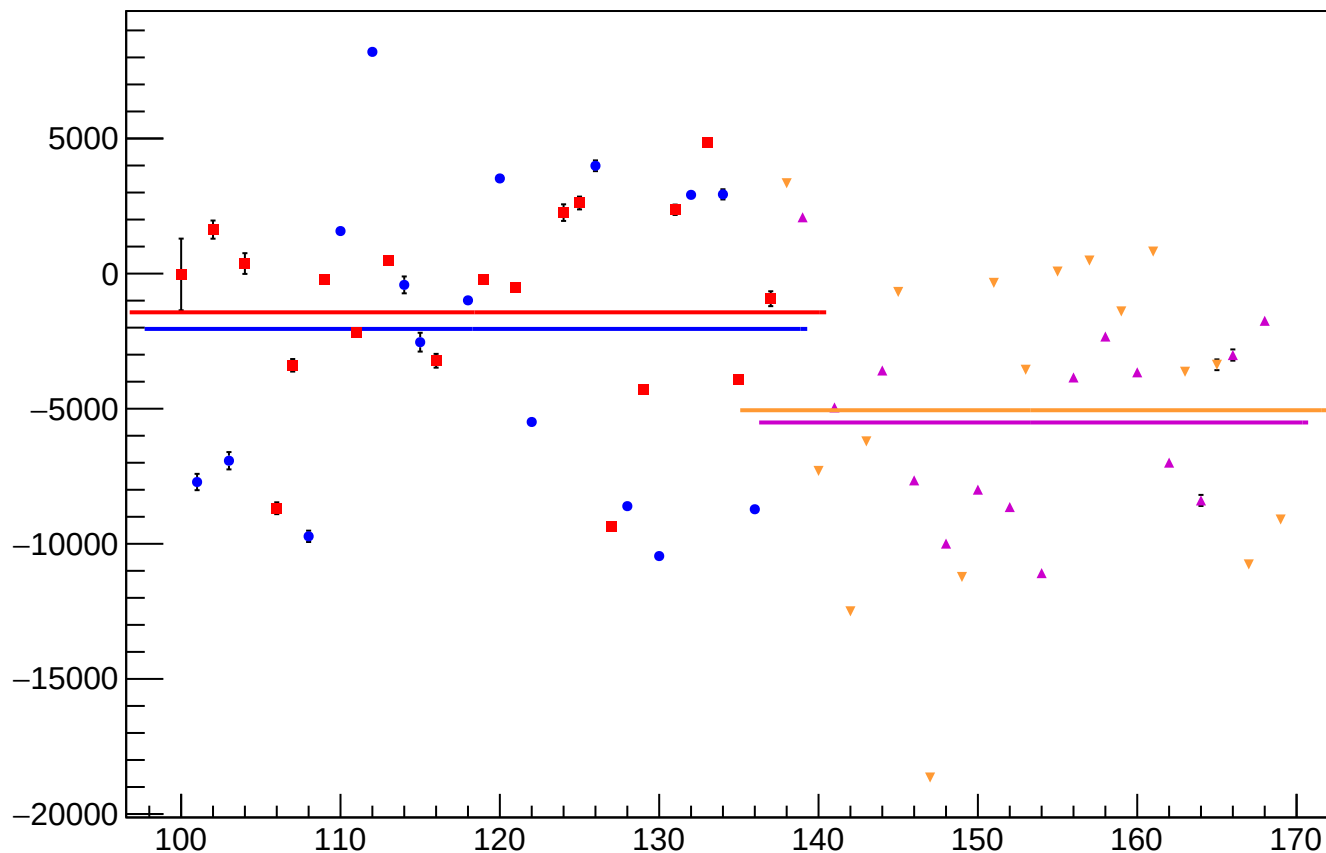
Right: 217.691 $\pm$ 0.042 χ^2 /NDF: 1610450.2/34

In: 218.322 $\pm$ 0.036 χ^2 /NDF: 1028825.9/30

Out: 225.885 $\pm$ 0.036 χ^2 /NDF: 1523638.4/35

All: 222.094 $\pm$ 0.025 χ^2 /NDF: 2574603.8/66

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: -2047.267 $\pm$ 46.722 χ^2/NDF : 16709.1/15

Left Out: -5057.000 $\pm$ 33.975 χ^2/NDF : 31493.0/16

Right Out: -1432.909 $\pm$ 44.729 χ^2/NDF : 6387.8/18

Left In: -5509.999 $\pm$ 35.434 χ^2/NDF : 10226.9/14

Left: -5273.982 $\pm$ 24.524 χ^2/NDF : 41805.1/31

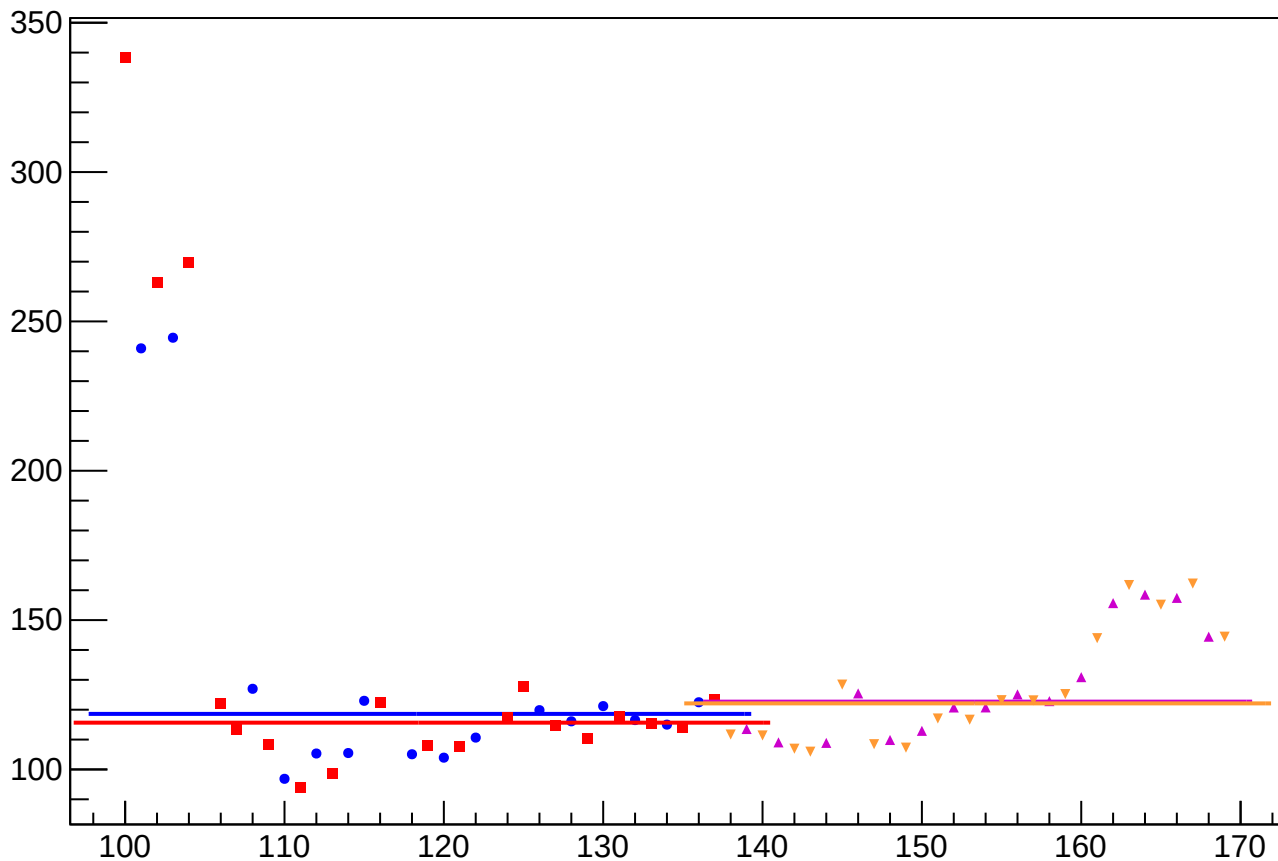
Right: -1726.707 $\pm$ 32.310 χ^2/NDF : 23187.1/34

In: -4245.565 $\pm$ 28.233 χ^2/NDF : 30423.2/30

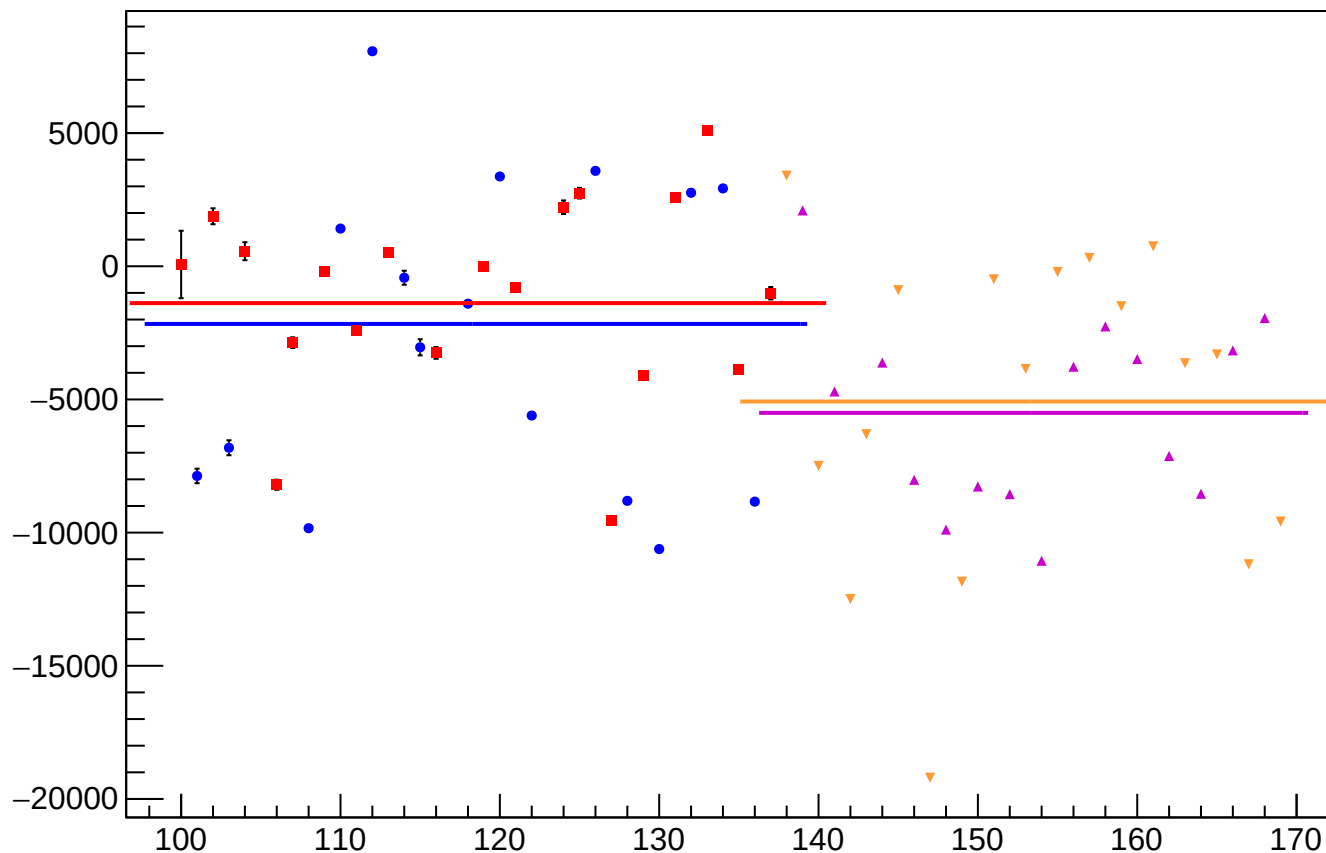
Out: -3731.049 $\pm$ 27.055 χ^2/NDF : 42043.7/35

All: -3977.352 $\pm$ 19.534 χ^2/NDF : 72640.0/66

asym_bpm1i02WS_rms vs Slug, Sign Corrected



asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: -2165.877+/-39.632 χ^2/NDF : 22874.8/15

Left Out: -5078.532+/-30.617 χ^2/NDF : 38681.7/16

Right Out: -1383.103+/-37.976 χ^2/NDF : 9148.6/18

Left In: -5504.348+/-32.259 χ^2/NDF : 12538.1/14

Left: -5280.326+/-22.207 χ^2/NDF : 51311.4/31

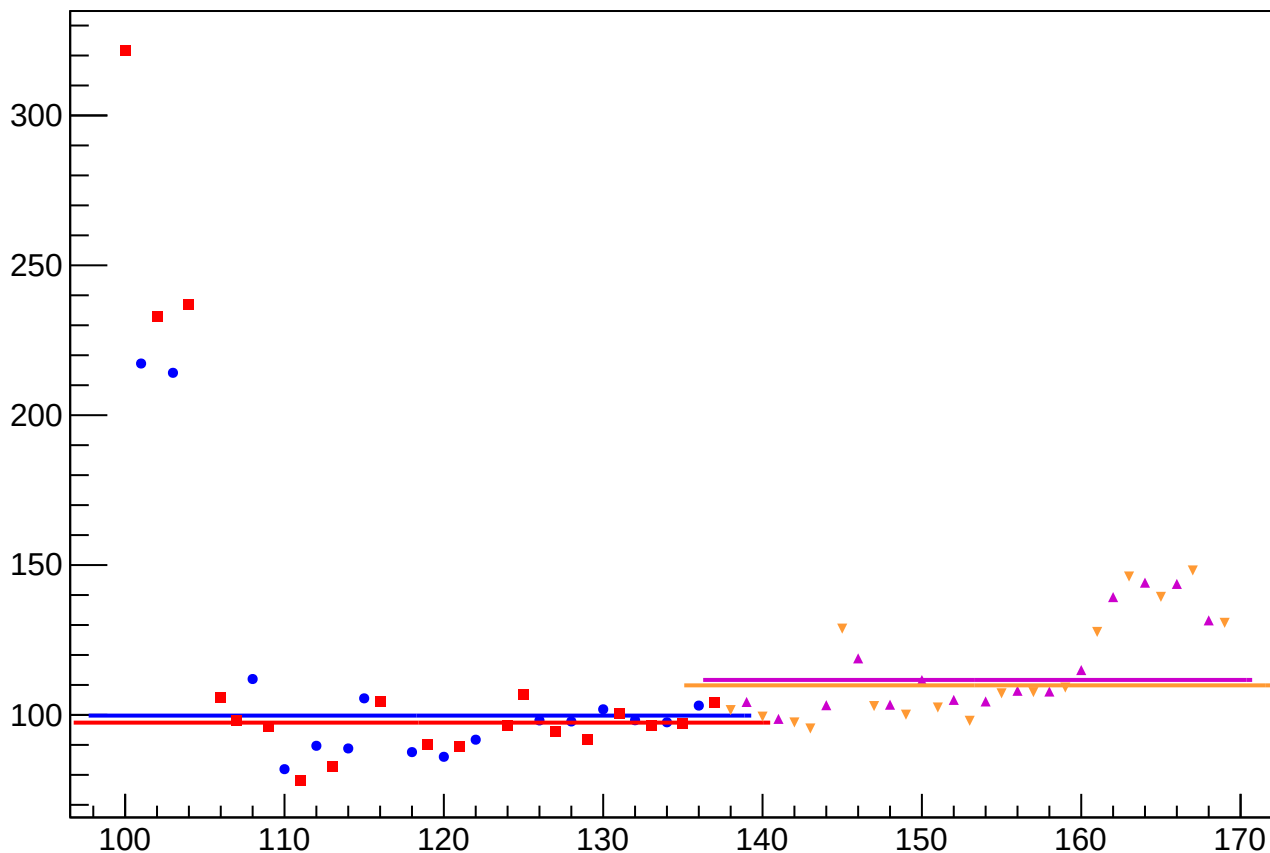
Right: -1757.793+/-27.420 χ^2/NDF : 32226.8/34

In: -4173.918+/-25.019 χ^2/NDF : 39681.0/30

Out: -3622.757+/-23.835 χ^2/NDF : 53569.2/35

All: -3884.993+/-17.257 χ^2/NDF : 93504.6/66

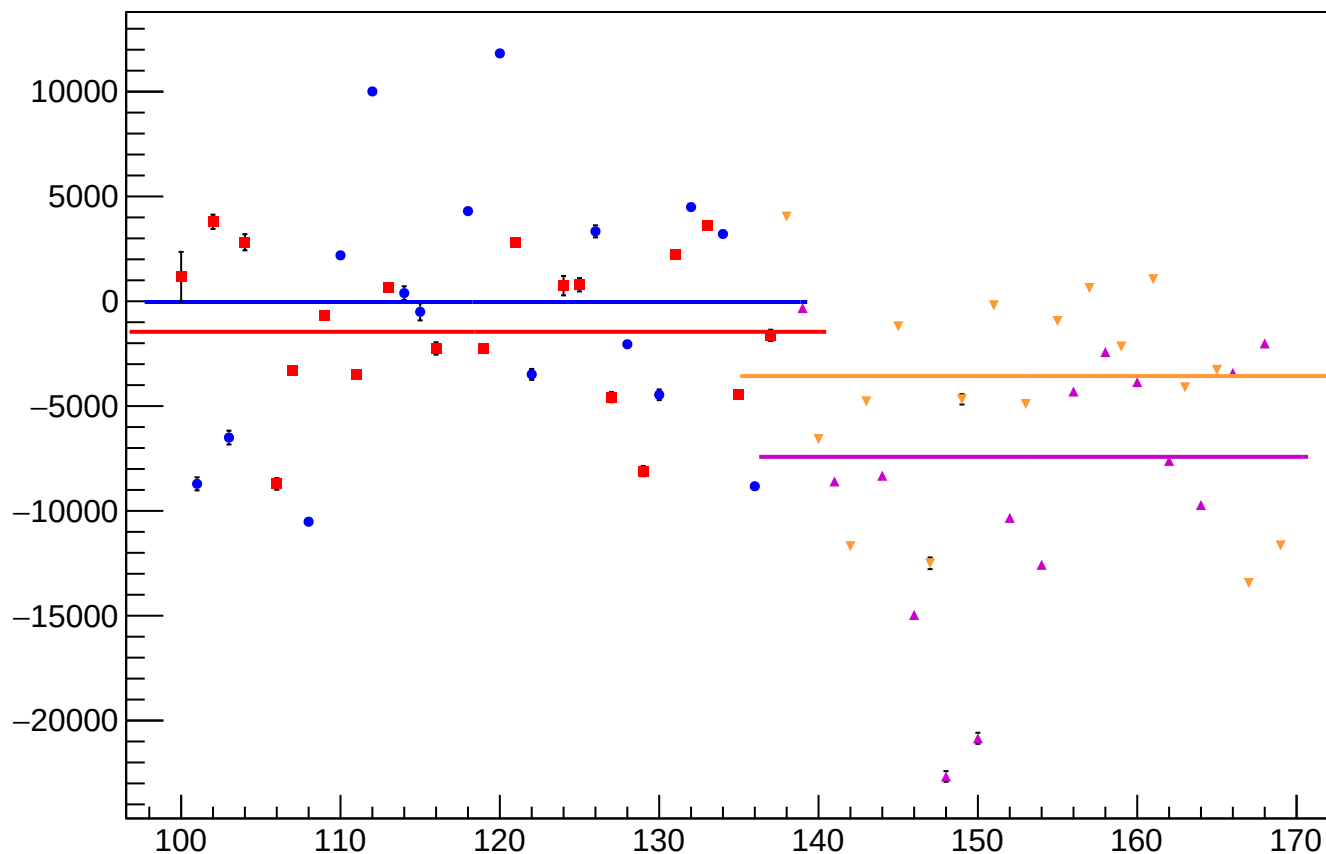
asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 99.775 ± 0.028 $\chi^2/\text{NDF}: 809152.9/15$
 Left Out: 109.864 ± 0.022 $\chi^2/\text{NDF}: 504063.4/16$
 Right Out: 97.428 ± 0.027 $\chi^2/\text{NDF}: 926047.7/18$
 Left In: 111.676 ± 0.023 $\chi^2/\text{NDF}: 306702.0/14$

Left: 110.723 ± 0.016 $\chi^2/\text{NDF}: 814085.3/31$
 Right: 98.551 ± 0.019 $\chi^2/\text{NDF}: 1738857.3/34$
 In: 106.933 ± 0.018 $\chi^2/\text{NDF}: 1224340.9/30$
 Out: 104.965 ± 0.017 $\chi^2/\text{NDF}: 1560108.6/35$
 All: 105.901 ± 0.012 $\chi^2/\text{NDF}: 2790938.8/66$

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: -34.667 ± 53.465 $\chi^2/\text{NDF}: 16802.8/15$

Left Out: -3568.085 ± 43.230 $\chi^2/\text{NDF}: 11972.6/16$

Right Out: -1456.665 ± 51.946 $\chi^2/\text{NDF}: 4117.0/18$

Left In: -7421.226 ± 46.092 $\chi^2/\text{NDF}: 14335.8/14$

Left: -5371.323 ± 31.532 $\chi^2/\text{NDF}: 30026.2/31$

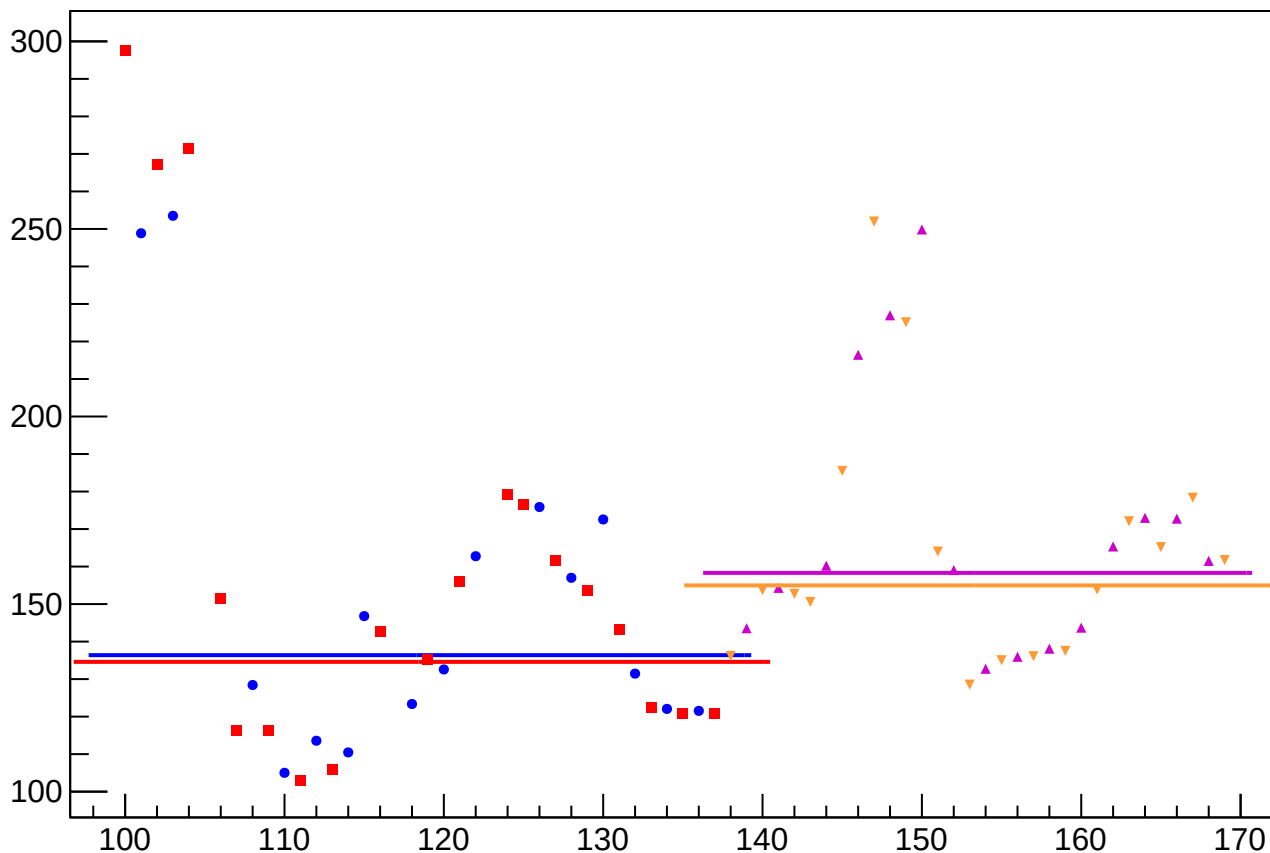
Right: -766.160 ± 37.257 $\chi^2/\text{NDF}: 21283.7/34$

In: -4271.982 ± 34.910 $\chi^2/\text{NDF}: 42088.0/30$

Out: -2704.112 ± 33.229 $\chi^2/\text{NDF}: 17065.7/35$

All: -3449.376 ± 24.069 $\chi^2/\text{NDF}: 60211.9/66$

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 136.383 $\pm$ 0.038 χ^2 /NDF: 796855.7/15

Left Out: 154.981 $\pm$ 0.031 χ^2 /NDF: 699167.5/16

Right Out: 134.598 $\pm$ 0.037 χ^2 /NDF: 919605.2/18

Left In: 158.315 $\pm$ 0.033 χ^2 /NDF: 715467.4/14

Left: 156.542 $\pm$ 0.022 χ^2 /NDF: 1420201.7/31

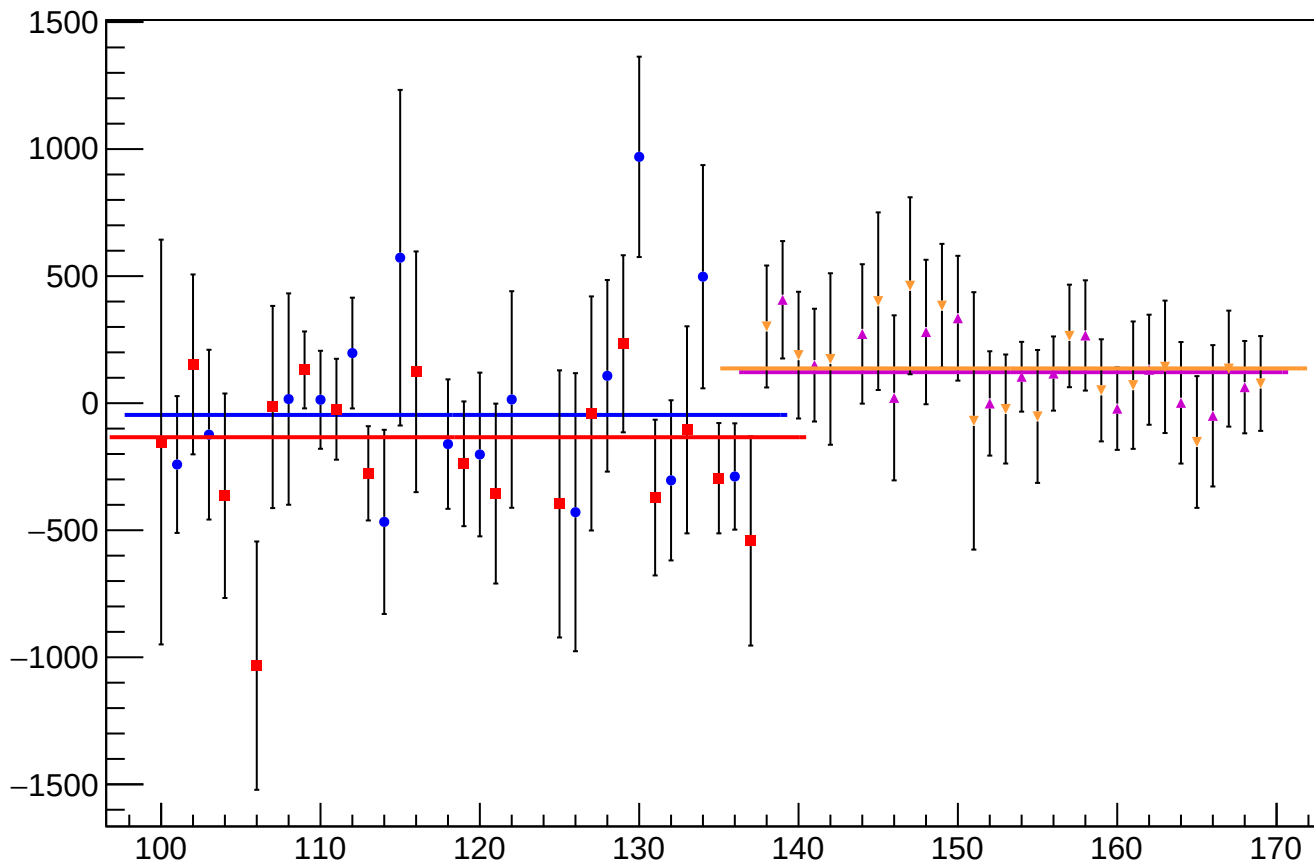
Right: 135.465 $\pm$ 0.026 χ^2 /NDF: 1717607.6/34

In: 148.965 $\pm$ 0.025 χ^2 /NDF: 1705380.0/30

Out: 146.641 $\pm$ 0.023 χ^2 /NDF: 1800703.8/35

All: 147.745 $\pm$ 0.017 χ^2 /NDF: 3510733.3/66

asym_bcm_2an_us_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -46.199 $\pm$ 76.283 χ^2 /NDF: 15.5/15

Left Out: 136.908 $\pm$ 62.191 χ^2 /NDF:6.3/15

Right Out: -133.913 $\pm$ 68.414 χ^2 /NDF: 12.8/17

Left In: 122.078 $\pm$ 53.027 χ^2 /NDF:5.3/14

Left: 128.321 $\pm$ 40.350 χ^2 /NDF: 11.6/30

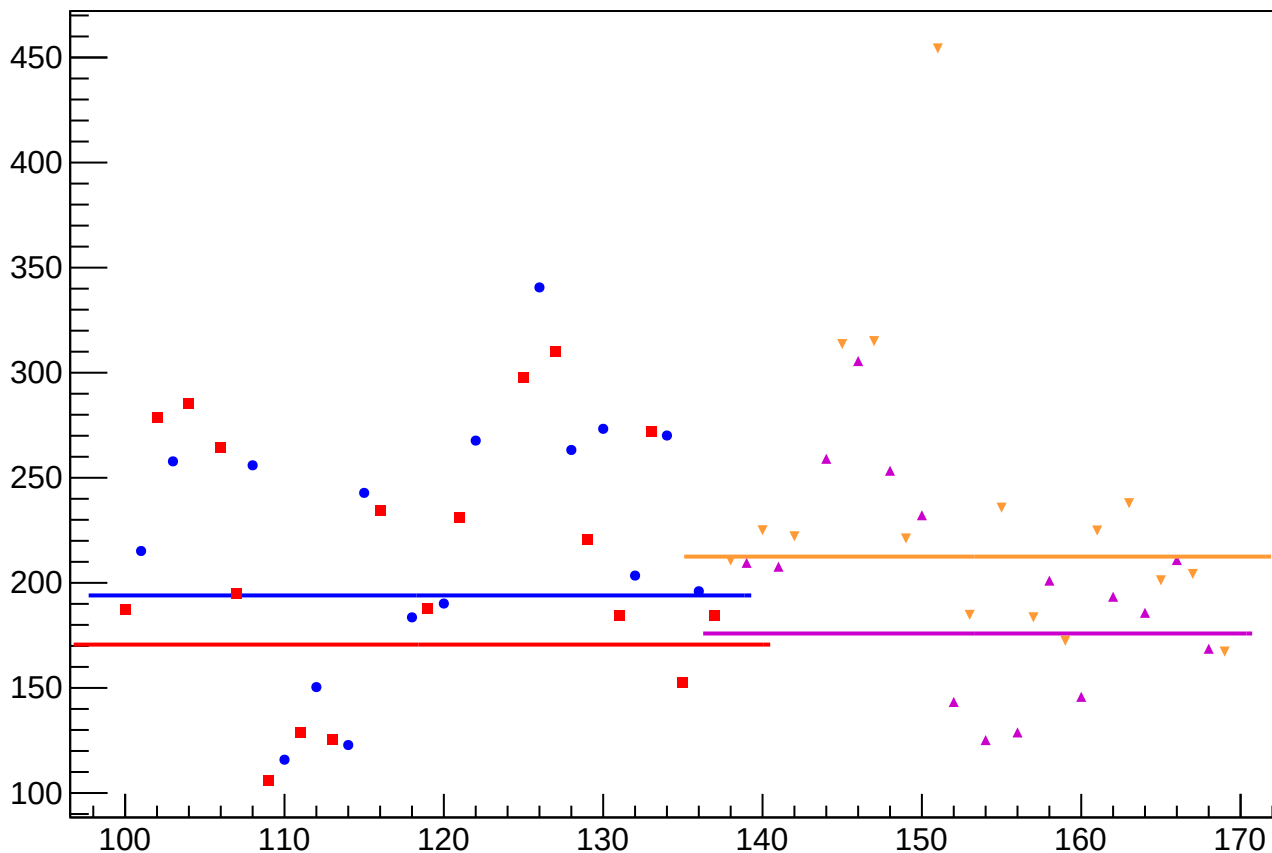
Right: -94.812 $\pm$ 50.931 χ^2 /NDF: 29.0/33

In: 67.256 $\pm$ 43.540 χ^2 /NDF:24.1/30

Out: 14.371 $\pm$ 46.019 χ^2 /NDF:27.7/33

All: 42.276 $\pm$ 31.628 χ^2 /NDF: 52.4/64

asym_bcm_2an_us_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 194.017+/-0.054 χ^2/NDF : 1043588.7/15

Left Out: 212.489+/-0.044 χ^2/NDF :1123333.7/15

Right Out: 170.624+/-0.048 χ^2/NDF : 1593735.4/17

Left In: 175.901+/-0.037 χ^2/NDF :1517367.3/14

Left: 191.303+/-0.029 χ^2/NDF : 3041536.7/30

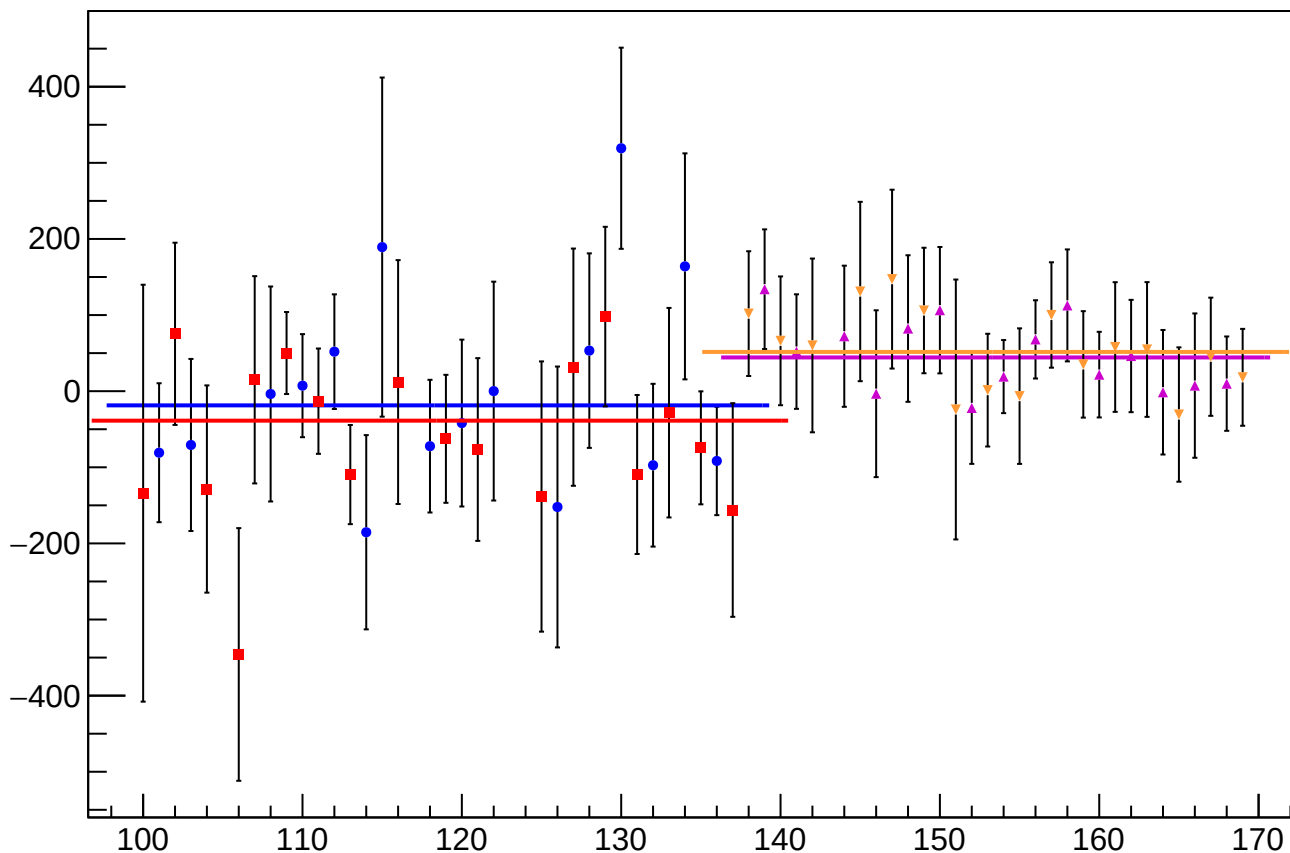
Right: 181.052+/-0.036 χ^2/NDF : 2741566.5/33

In: 181.803+/-0.031 χ^2/NDF :2637003.2/30

Out: 193.547+/-0.033 χ^2/NDF :3127158.4/33

All: 187.350+/-0.022 χ^2/NDF : 5832886.2/64

asym_bcm_2an_us_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -18.645 $\pm$ 26.122 χ^2 /NDF: 15.2/15

Left Out: 51.569 $\pm$ 21.226 χ^2 /NDF:4.7/15

Right Out: -38.716 $\pm$ 23.652 χ^2 /NDF: 12.6/17

Left In: 44.320 $\pm$ 18.276 χ^2 /NDF:5.4/14

Left: 47.406 $\pm$ 13.850 χ^2 /NDF: 10.2/30

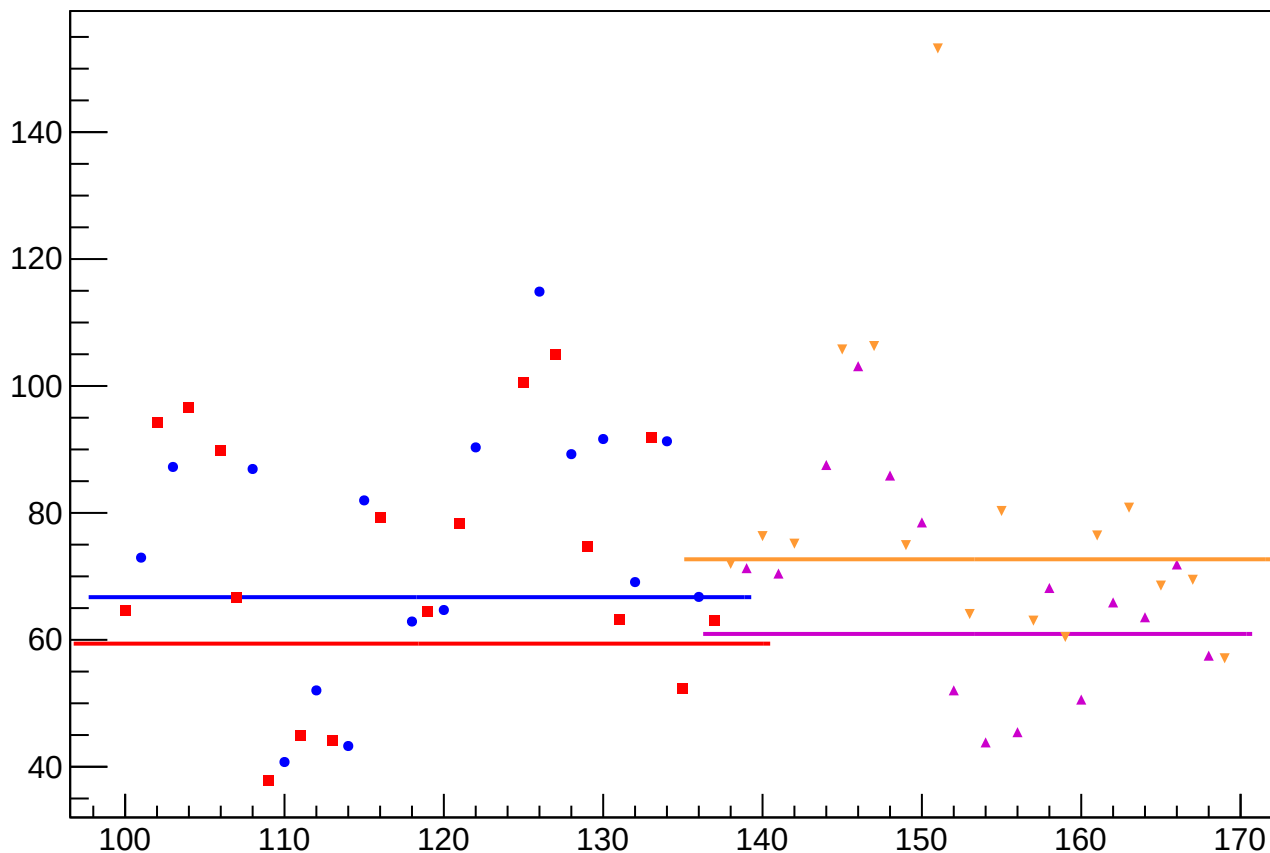
Right: -29.674 $\pm$ 17.533 χ^2 /NDF: 28.2/33

In: 23.628 $\pm$ 14.975 χ^2 /NDF:24.5/30

Out: 11.293 $\pm$ 15.797 χ^2 /NDF:25.4/33

All: 17.790 $\pm$ 10.868 χ^2 /NDF: 50.3/64

asym_bcm_2an_us_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 66.724 $\pm$ 0.018 χ^2 /NDF: 947040.2/15

Left Out: 72.692 $\pm$ 0.015 χ^2 /NDF:1062765.5/15

Right Out: 59.400 $\pm$ 0.017 χ^2 /NDF: 1445371.1/17

Left In: 60.931 $\pm$ 0.013 χ^2 /NDF:1346728.0/14

Left: 65.938 $\pm$ 0.010 χ^2 /NDF: 2762096.0/30

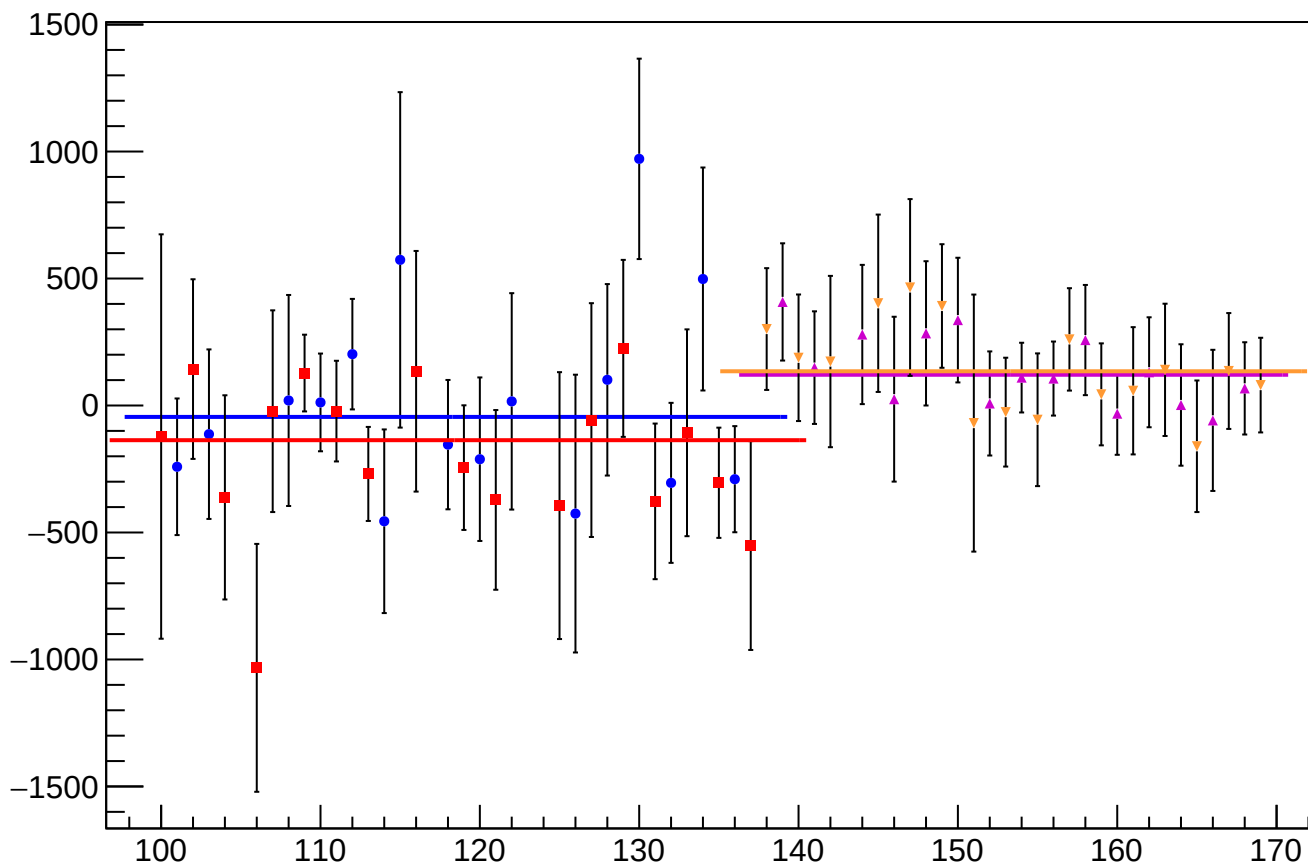
Right: 62.700 $\pm$ 0.012 χ^2 /NDF: 2478799.5/33

In: 62.835 $\pm$ 0.011 χ^2 /NDF:2359813.2/30

Out: 66.762 $\pm$ 0.011 χ^2 /NDF:2857967.4/33

All: 64.694 $\pm$ 0.008 χ^2 /NDF: 5282902.6/64

asym_bcm_an_us_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -44.917 ± 76.198 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 134.777 ± 62.140 $\chi^2/\text{NDF}: 6.5/15$

Right Out: -136.579 ± 68.322 $\chi^2/\text{NDF}: 12.9/17$

Left In: 121.069 ± 52.981 $\chi^2/\text{NDF}: 5.4/14$

Left: 126.839 ± 40.316 $\chi^2/\text{NDF}: 11.9/30$

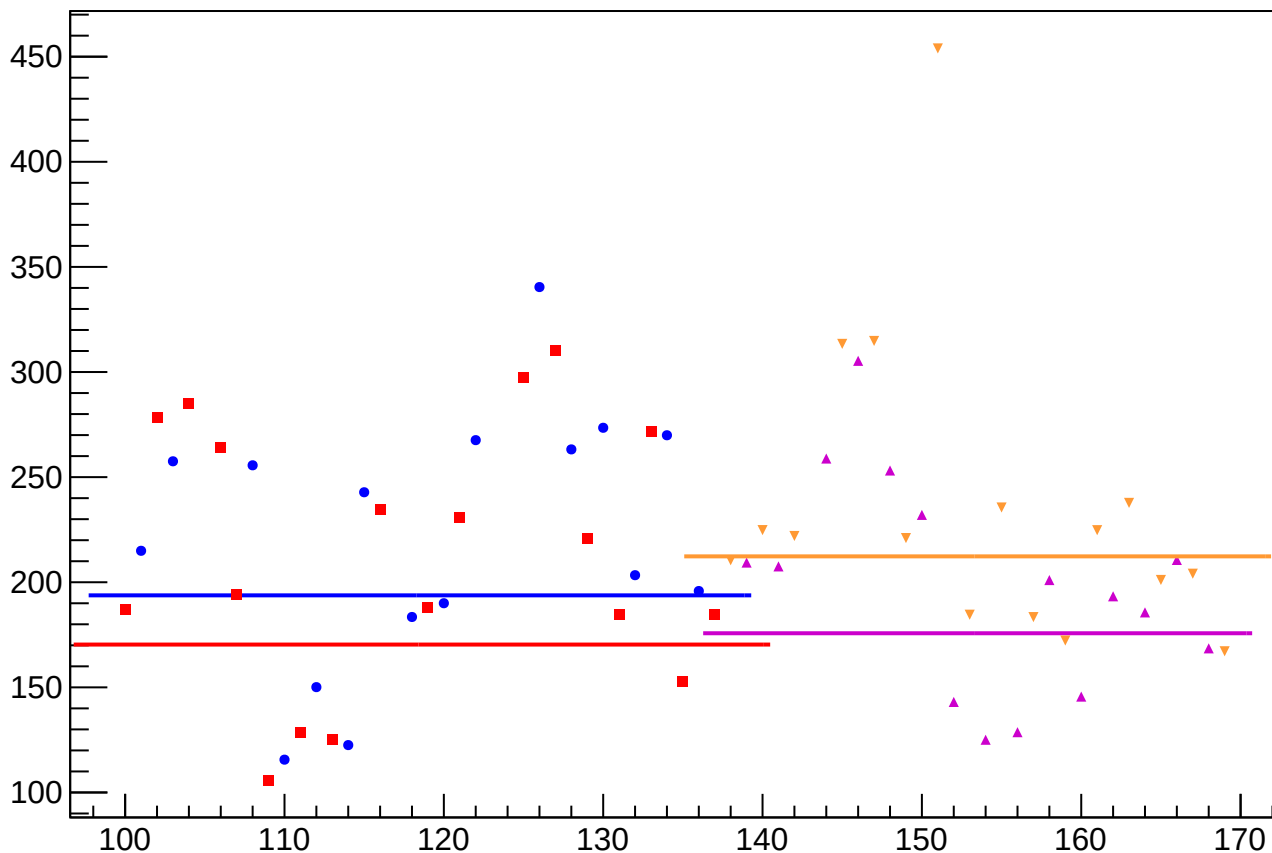
Right: -95.728 ± 50.868 $\chi^2/\text{NDF}: 29.1/33$

In: 66.976 ± 43.499 $\chi^2/\text{NDF}: 24.1/30$

Out: 11.929 ± 45.970 $\chi^2/\text{NDF}: 28.0/33$

All: 40.972 ± 31.596 $\chi^2/\text{NDF}: 52.8/64$

asym_bcm_an_us_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 193.768+/-0.054 χ^2/NDF : 1048095.1/15

Left Out: 212.310+/-0.044 χ^2/NDF : 1123950.4/15

Right Out: 170.358+/-0.048 χ^2/NDF : 1599025.1/17

Left In: 175.739+/-0.037 χ^2/NDF : 1519379.2/14

Left: 191.133+/-0.029 χ^2/NDF : 3044450.2/30

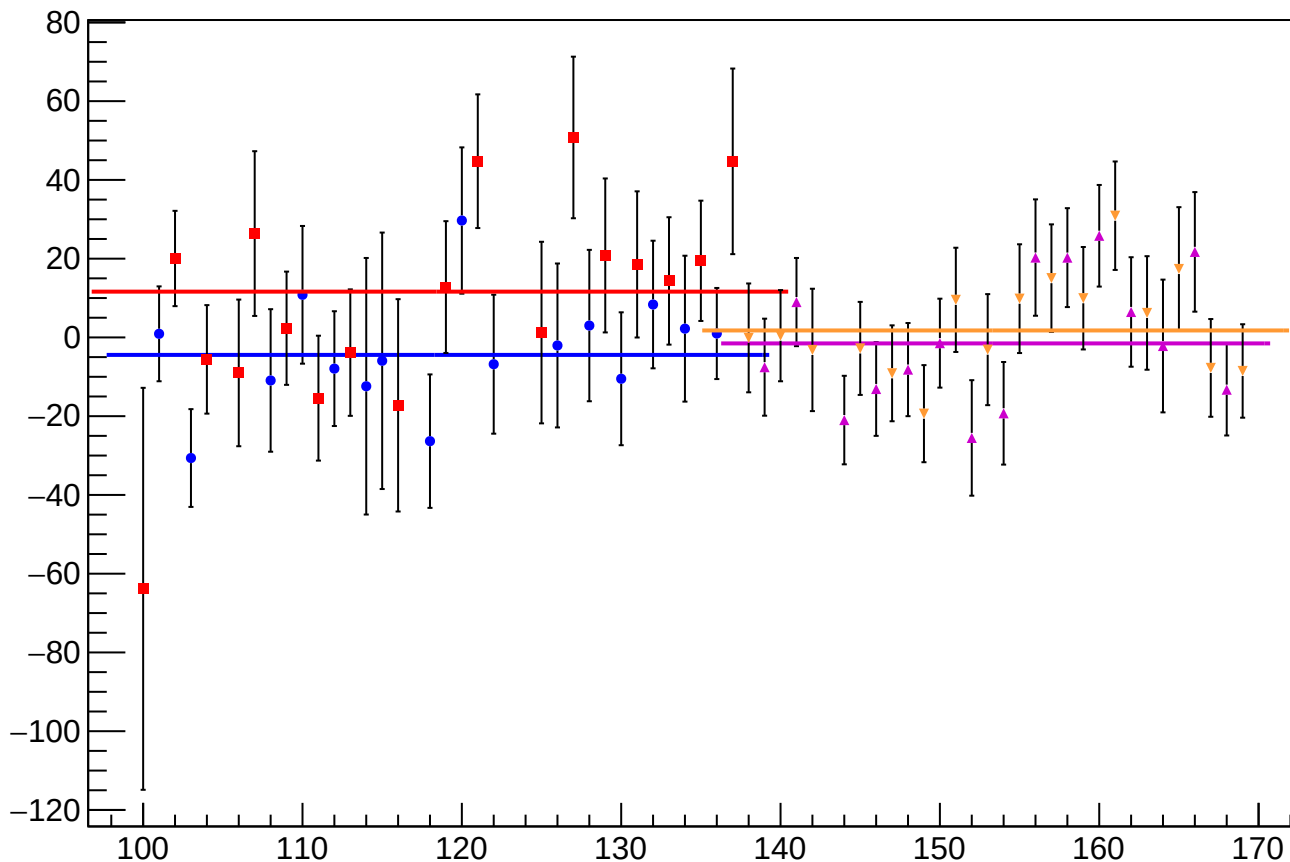
Right: 180.791+/-0.036 χ^2/NDF : 2751765.9/33

In: 181.615+/-0.031 χ^2/NDF : 2642947.2/30

Out: 193.317+/-0.033 χ^2/NDF : 3135664.4/33

All: 187.143+/-0.022 χ^2/NDF : 5846995.0/64

asym_bcm_an_us_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -4.440 ± 4.131 χ^2/NDF : 12.0/15

Left Out: 1.770 ± 3.291 χ^2/NDF : 13.1/15

Right Out: 11.627 ± 4.137 χ^2/NDF : 21.6/17

Left In: -1.522 ± 3.290 χ^2/NDF : 23.3/14

Left: 0.123 ± 2.327 χ^2/NDF : 36.8/30

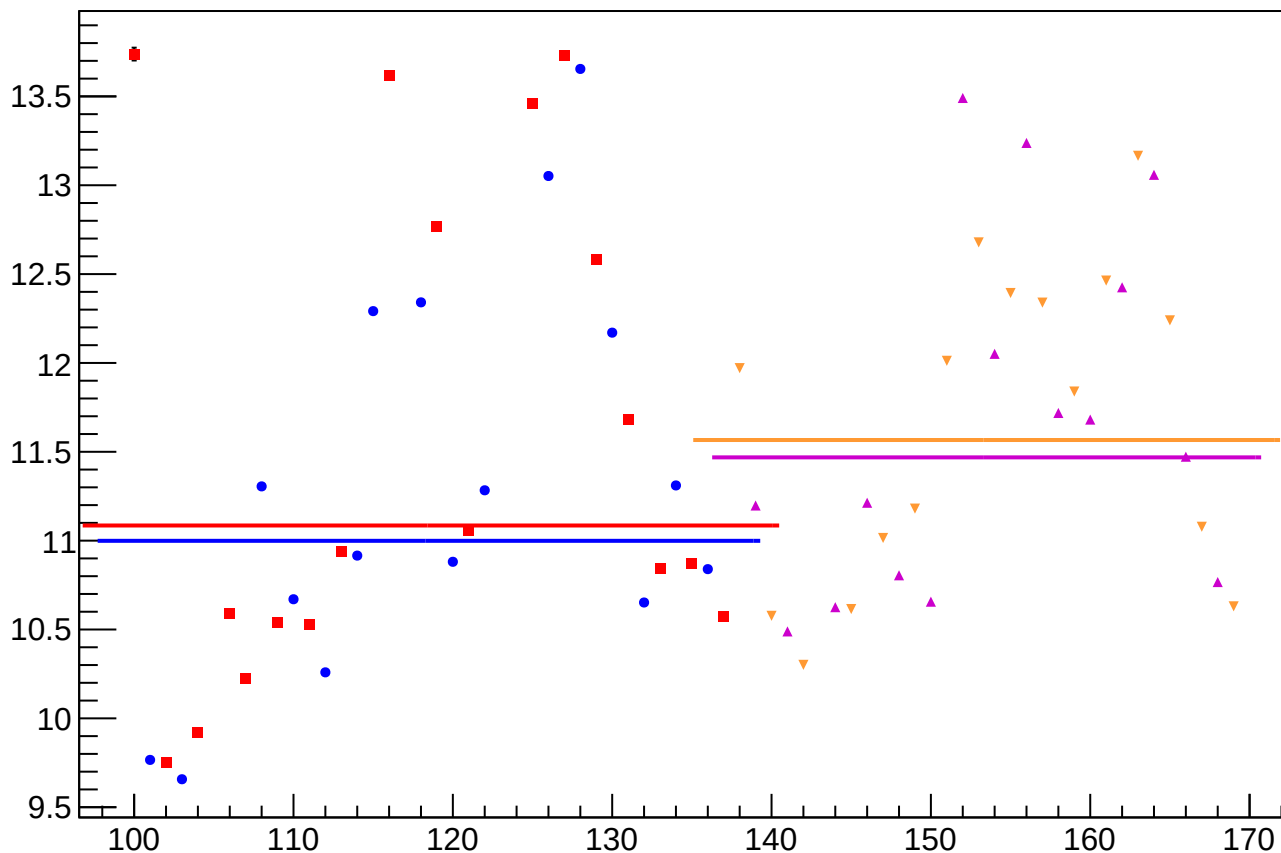
Right: 3.582 ± 2.923 χ^2/NDF : 41.2/33

In: -2.654 ± 2.573 χ^2/NDF : 35.6/30

Out: 5.591 ± 2.575 χ^2/NDF : 38.2/33

All: 1.465 ± 1.820 χ^2/NDF : 78.9/64

asym_bcm_an_us_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 10.999 ± 0.003 $\chi^2/\text{NDF}: 136159.2/15$

Left Out: 11.566 ± 0.002 $\chi^2/\text{NDF}: 130108.0/15$

Right Out: 11.085 ± 0.003 $\chi^2/\text{NDF}: 162204.2/17$

Left In: 11.469 ± 0.002 $\chi^2/\text{NDF}: 151663.0/14$

Left: 11.517 ± 0.002 $\chi^2/\text{NDF}: 282652.9/30$

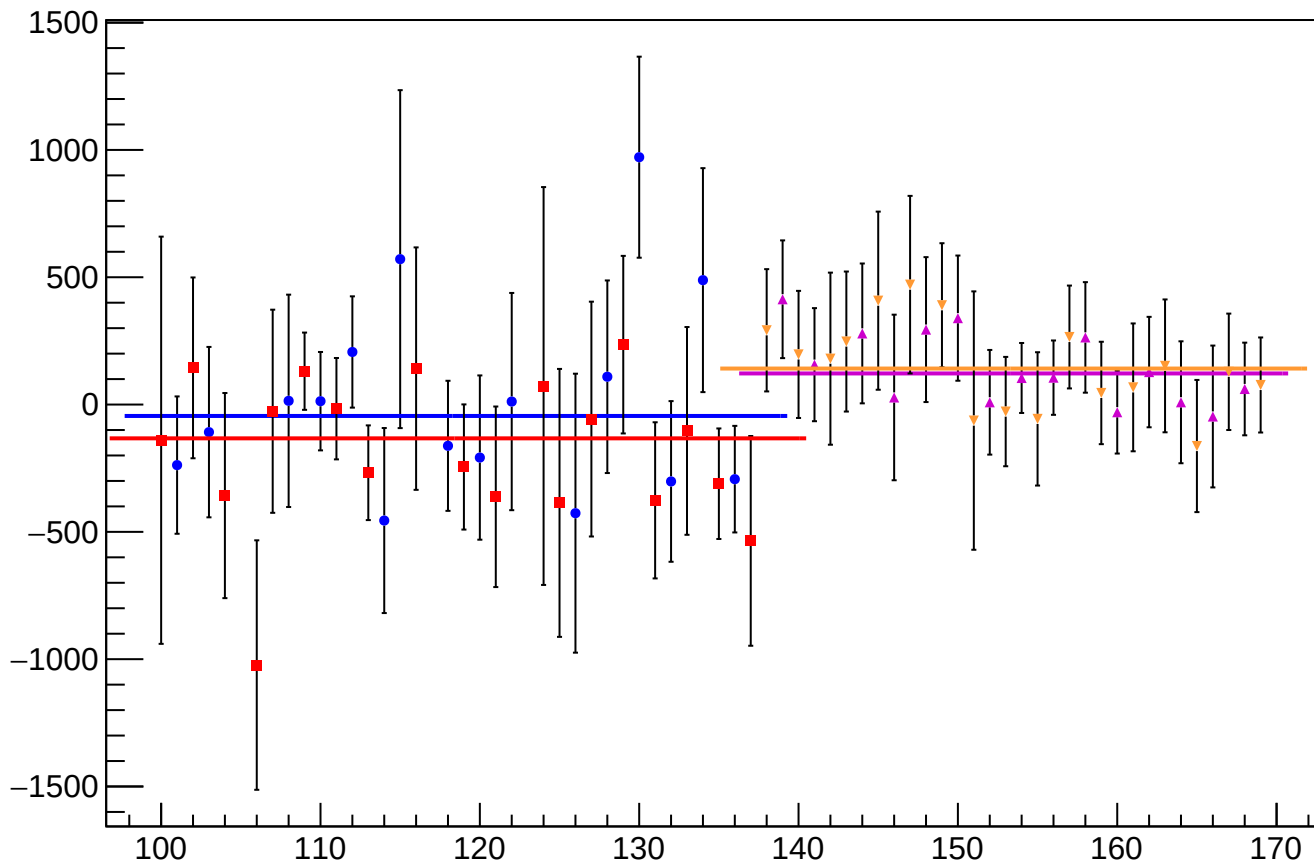
Right: 11.042 ± 0.002 $\chi^2/\text{NDF}: 298798.9/33$

In: 11.286 ± 0.002 $\chi^2/\text{NDF}: 303639.5/30$

Out: 11.380 ± 0.002 $\chi^2/\text{NDF}: 308875.3/33$

All: 11.333 ± 0.001 $\chi^2/\text{NDF}: 613832.9/64$

asym_bcm_an_us_an_ds3_avg_mean vs Slug, Sign Corrected



Right In: -44.797 ± 76.424 $\chi^2/\text{NDF}: 15.4/15$

Left Out: 141.422 ± 60.715 $\chi^2/\text{NDF}: 6.7/16$

Right Out: -132.730 ± 68.270 $\chi^2/\text{NDF}: 12.9/18$

Left In: 122.189 ± 53.067 $\chi^2/\text{NDF}: 5.5/14$

Left: 130.518 ± 39.956 $\chi^2/\text{NDF}: 12.2/31$

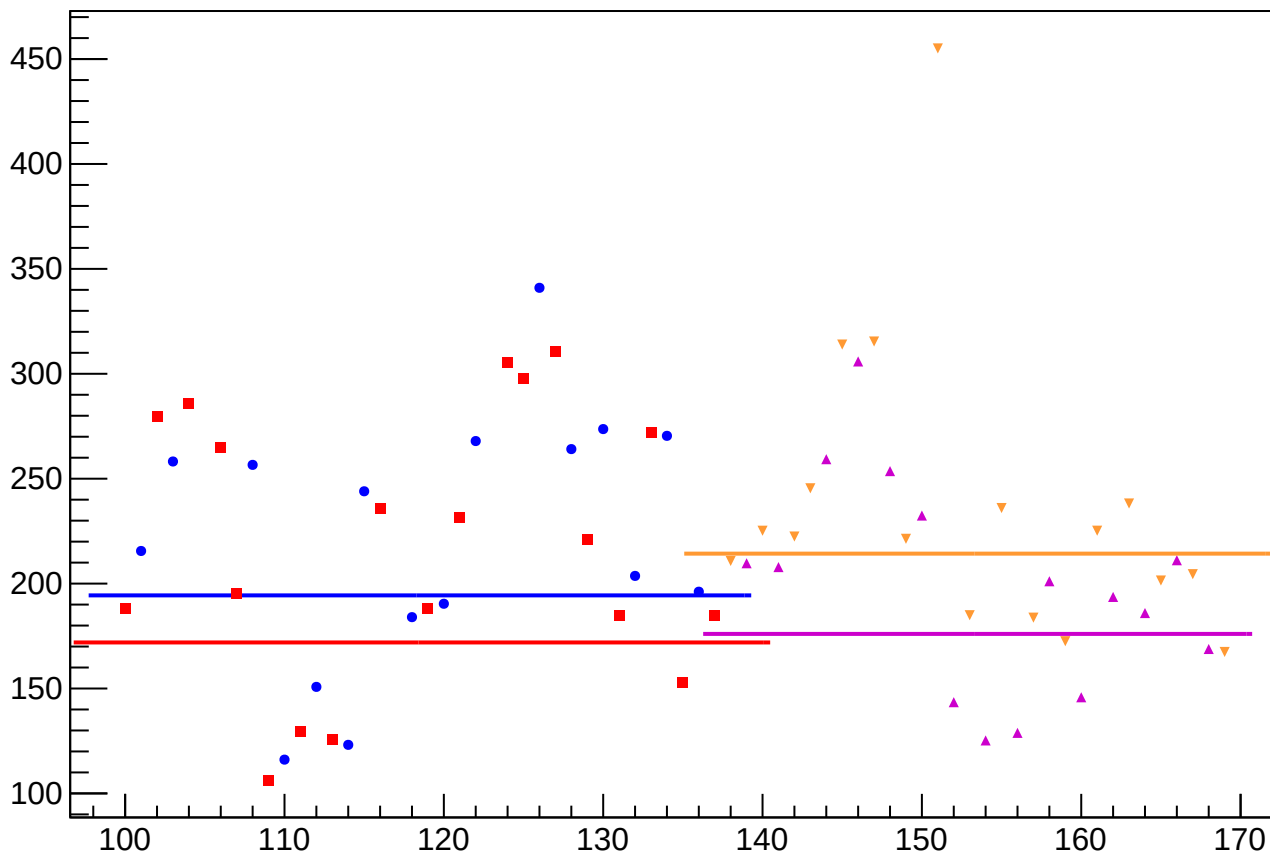
Right: -93.703 ± 50.914 $\chi^2/\text{NDF}: 29.0/34$

In: 67.866 ± 43.589 $\chi^2/\text{NDF}: 24.2/30$

Out: 20.348 ± 45.369 $\chi^2/\text{NDF}: 28.5/35$

All: 45.057 ± 31.432 $\chi^2/\text{NDF}: 53.2/66$

asym_bcm_an_us_an_ds3_avg_rms vs Slug, Sign Corrected



Right In: 194.385+/-0.054 χ^2/NDF : 1042024.1/15

Left Out: 214.283+/-0.043 χ^2/NDF : 1151892.7/16

Right Out: 171.949+/-0.048 χ^2/NDF : 1651343.7/18

Left In: 176.022+/-0.038 χ^2/NDF : 1519753.1/14

Left: 192.592+/-0.028 χ^2/NDF : 3121888.2/31

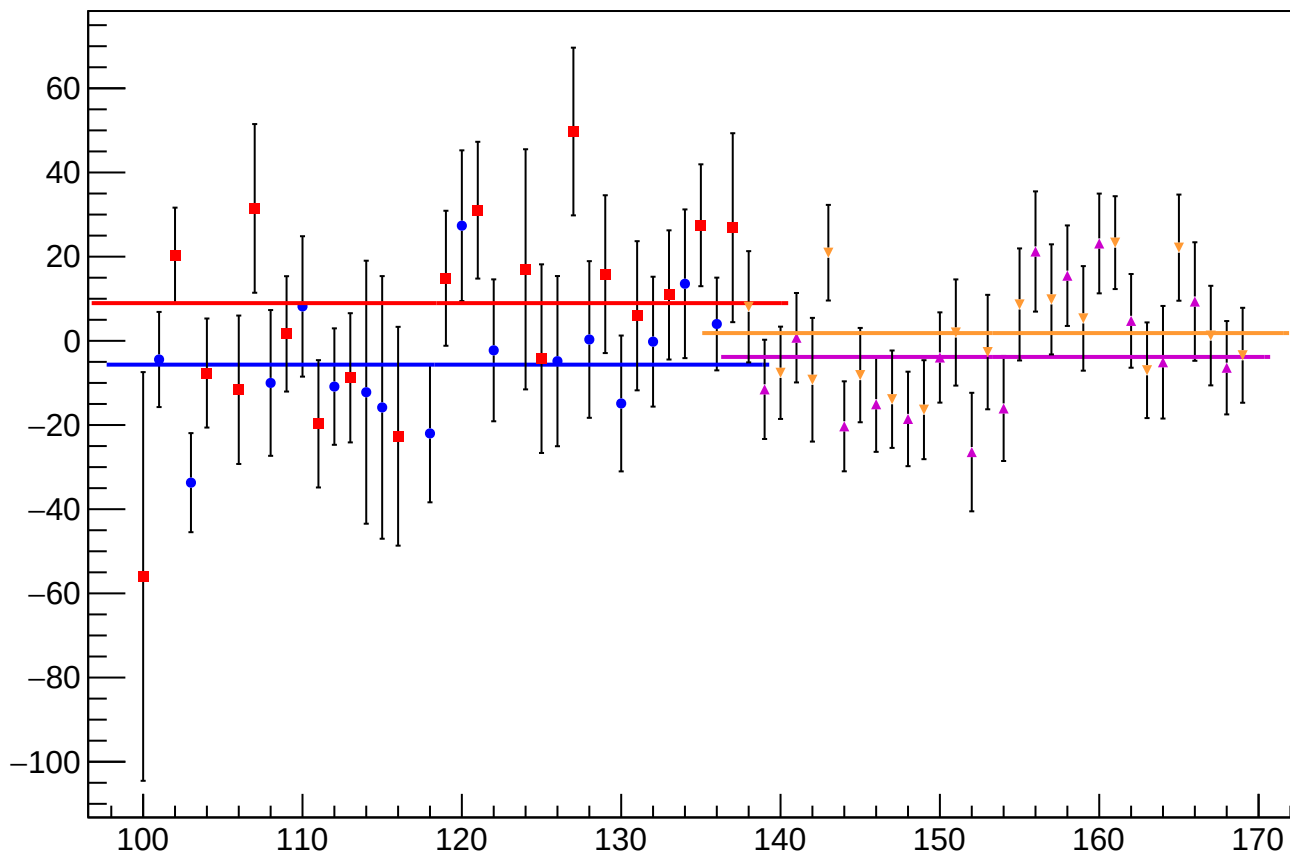
Right: 181.907+/-0.036 χ^2/NDF : 2789239.1/34

In: 181.996+/-0.031 χ^2/NDF : 2639680.1/30

Out: 195.587+/-0.032 χ^2/NDF : 3232642.6/35

All: 188.520+/-0.022 χ^2/NDF : 5965647.9/66

asym_bcm_an_us_an_ds3_dd_mean vs Slug, Sign Corrected



Right In: -5.657 ± 3.939 χ^2/NDF : 13.7/15

Left Out: 1.842 ± 2.936 χ^2/NDF : 17.4/16

Right Out: 8.960 ± 3.901 χ^2/NDF : 22.8/18

Left In: -3.824 ± 3.063 χ^2/NDF : 21.6/14

Left: -0.871 ± 2.120 χ^2/NDF : 40.8/31

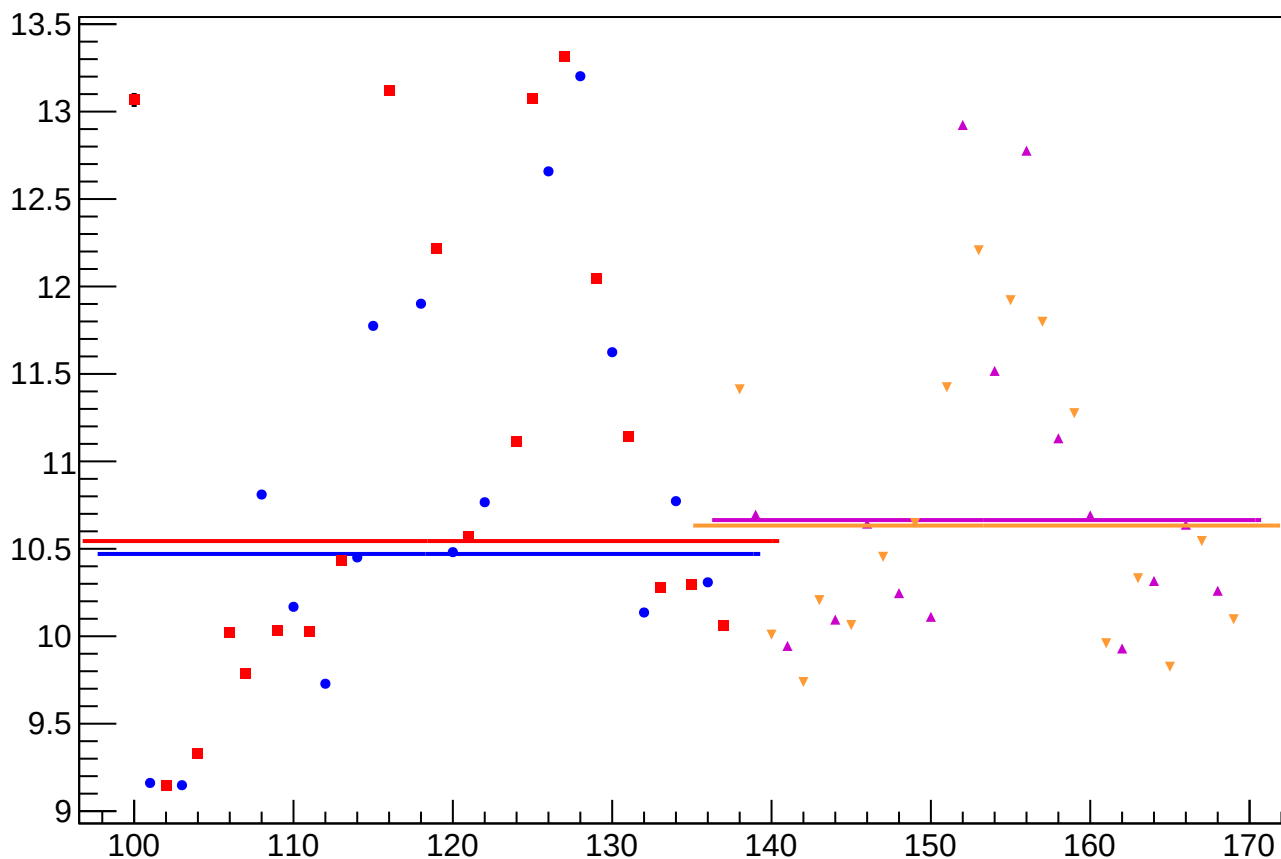
Right: 1.723 ± 2.772 χ^2/NDF : 43.4/34

In: -4.515 ± 2.418 χ^2/NDF : 35.4/30

Out: 4.416 ± 2.346 χ^2/NDF : 42.3/35

All: 0.086 ± 1.684 χ^2/NDF : 84.8/66

asym_bcm_an_us_an_ds3_dd_rms vs Slug, Sign Corrected



Right In: 10.471+/-0.003 χ^2/NDF : 157365.8/15

Left Out: 10.633+/-0.002 χ^2/NDF : 125586.3/16

Right Out: 10.544+/-0.003 χ^2/NDF : 186780.3/18

Left In: 10.664+/-0.002 χ^2/NDF : 143325.3/14

Left: 10.648+/-0.001 χ^2/NDF : 269021.0/31

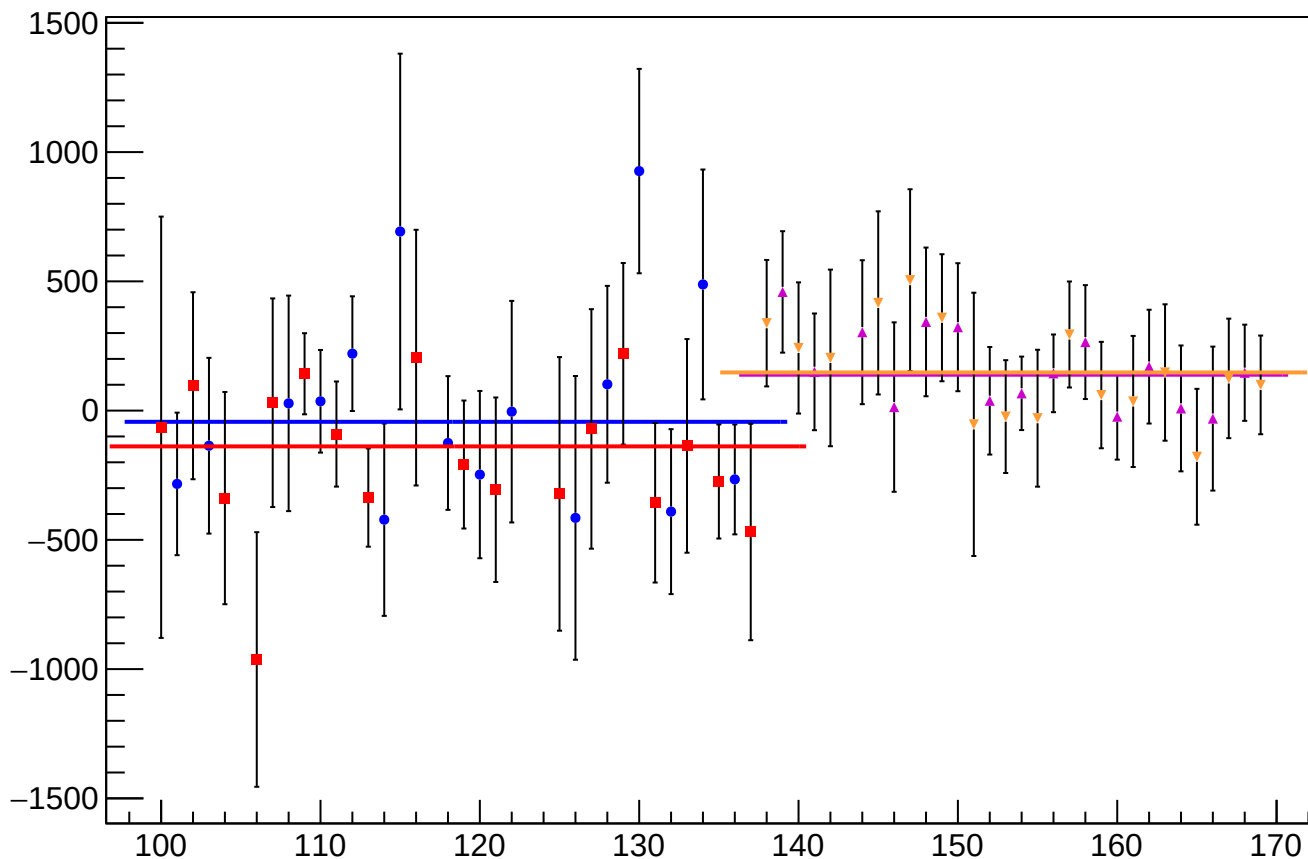
Right: 10.508+/-0.002 χ^2/NDF : 344500.1/34

In: 10.591+/-0.002 χ^2/NDF : 303706.5/30

Out: 10.601+/-0.002 χ^2/NDF : 313025.6/35

All: 10.596+/-0.001 χ^2/NDF : 616748.4/66

asym_bcm_dg_us_dg_ds_avg_mean vs Slug, Sign Corrected



Right In: -43.384 ± 77.584 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 147.570 ± 63.181 $\chi^2/\text{NDF}: 6.8/15$

Right Out: -138.455 ± 69.833 $\chi^2/\text{NDF}: 11.5/17$

Left In: 138.817 ± 54.128 $\chi^2/\text{NDF}: 5.9/14$

Left: 142.522 ± 41.106 $\chi^2/\text{NDF}: 12.7/30$

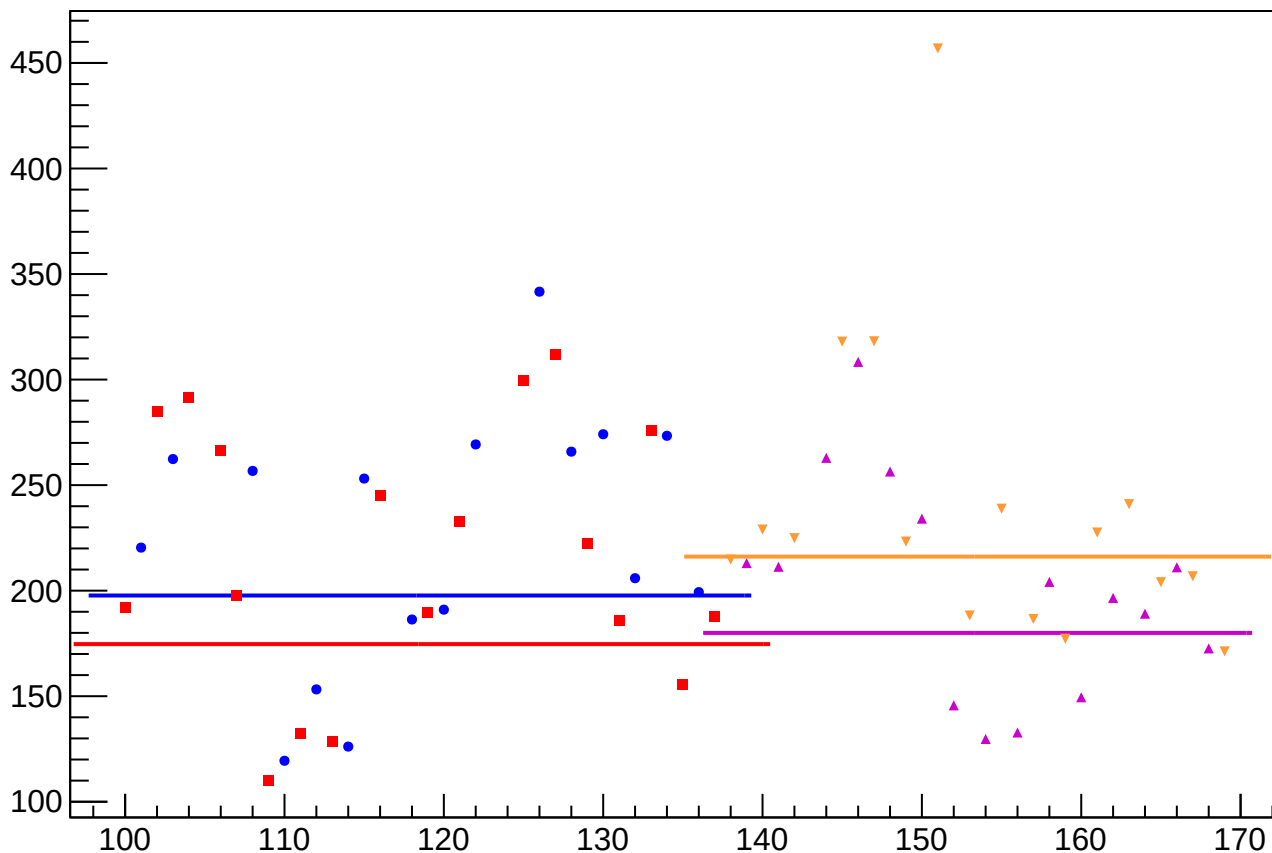
Right: -95.904 ± 51.904 $\chi^2/\text{NDF}: 27.7/33$

In: 79.166 ± 44.392 $\chi^2/\text{NDF}: 25.0/30$

Out: 18.825 ± 46.852 $\chi^2/\text{NDF}: 27.5/33$

All: 50.621 ± 32.224 $\chi^2/\text{NDF}: 53.4/64$

asym_bcm_dg_us_dg_ds_avg_rms vs Slug, Sign Corrected



Right In: 197.707 $\pm$ 0.055 χ^2 /NDF: 1000324.6/15

Left Out: 216.133 $\pm$ 0.045 χ^2 /NDF:1089159.1/15

Right Out: 174.679 $\pm$ 0.049 χ^2 /NDF: 1534751.1/17

Left In: 179.982 $\pm$ 0.038 χ^2 /NDF:1434587.8/14

Left: 195.284 $\pm$ 0.029 χ^2 /NDF: 2901354.2/30

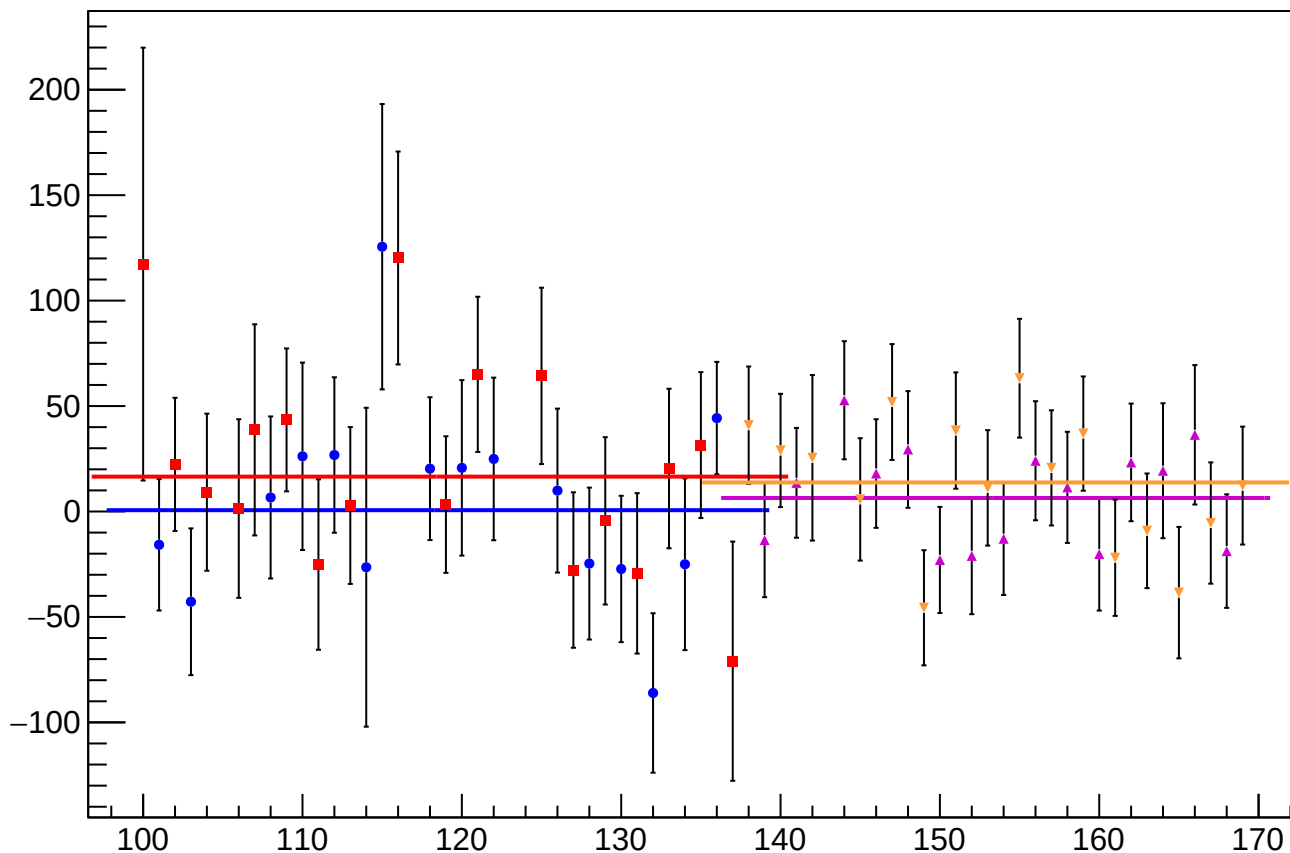
Right: 184.986 $\pm$ 0.037 χ^2 /NDF: 2632415.9/33

In: 185.785 $\pm$ 0.031 χ^2 /NDF:2505125.0/30

Out: 197.474 $\pm$ 0.033 χ^2 /NDF:3011443.8/33

All: 191.315 $\pm$ 0.023 χ^2 /NDF: 5582159.6/64

asym_bcm_dg_us_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 0.619 ± 9.421 $\chi^2/\text{NDF}: 16.7/15$

Left Out: 13.768 ± 7.075 $\chi^2/\text{NDF}: 18.4/15$

Right Out: 16.534 ± 9.307 $\chi^2/\text{NDF}: 16.4/17$

Left In: 6.412 ± 7.096 $\chi^2/\text{NDF}: 10.8/14$

Left: 10.101 ± 5.010 $\chi^2/\text{NDF}: 29.7/30$

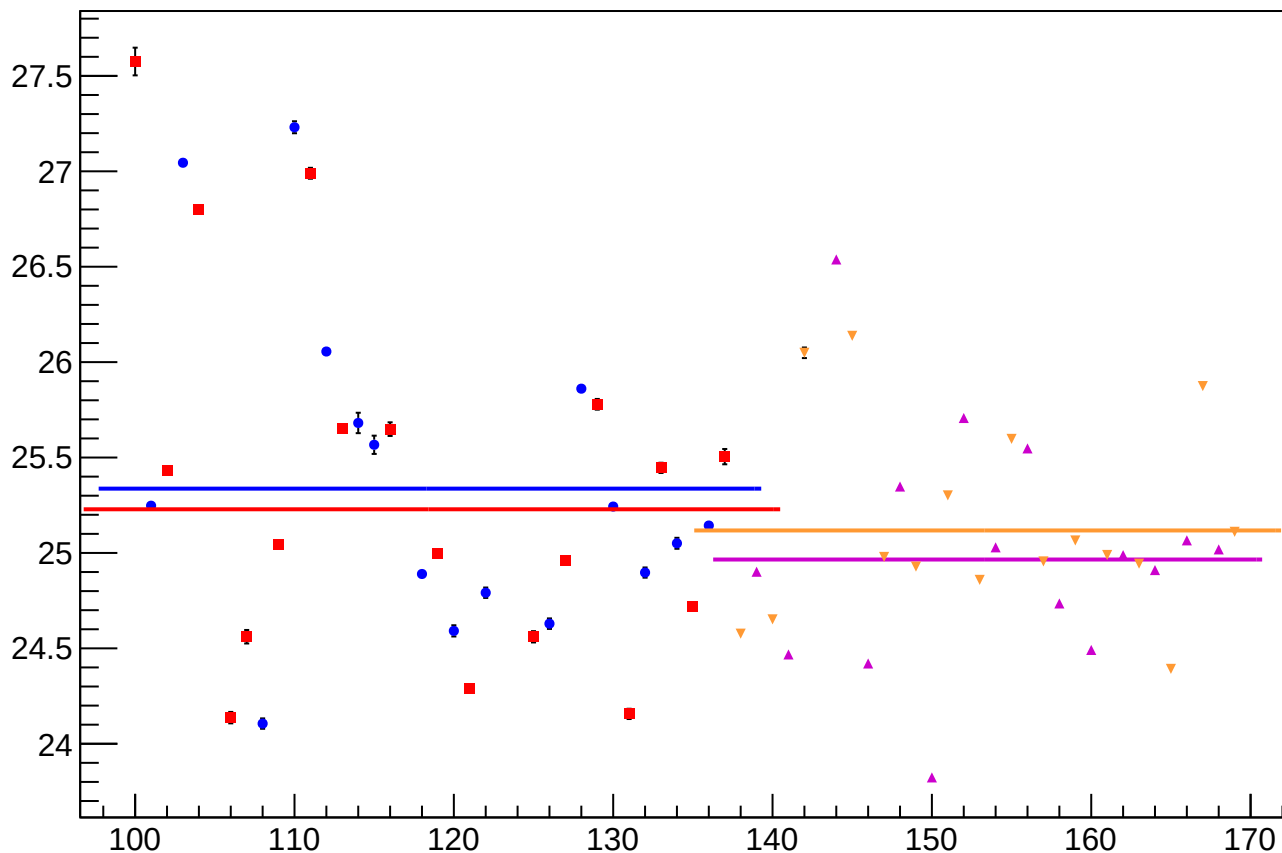
Right: 8.674 ± 6.621 $\chi^2/\text{NDF}: 34.6/33$

In: 4.315 ± 5.668 $\chi^2/\text{NDF}: 27.7/30$

Out: 14.781 ± 5.632 $\chi^2/\text{NDF}: 34.9/33$

All: 9.581 ± 3.995 $\chi^2/\text{NDF}: 64.3/64$

asym_bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 25.337 $\pm$ 0.007 χ^2 /NDF: 14315.0/15

Left Out: 25.118 $\pm$ 0.005 χ^2 /NDF:8618.1/15

Right Out: 25.229 $\pm$ 0.007 χ^2 /NDF: 15176.1/17

Left In: 24.966 $\pm$ 0.005 χ^2 /NDF:15551.9/14

Left: 25.042 $\pm$ 0.004 χ^2 /NDF: 24632.2/30

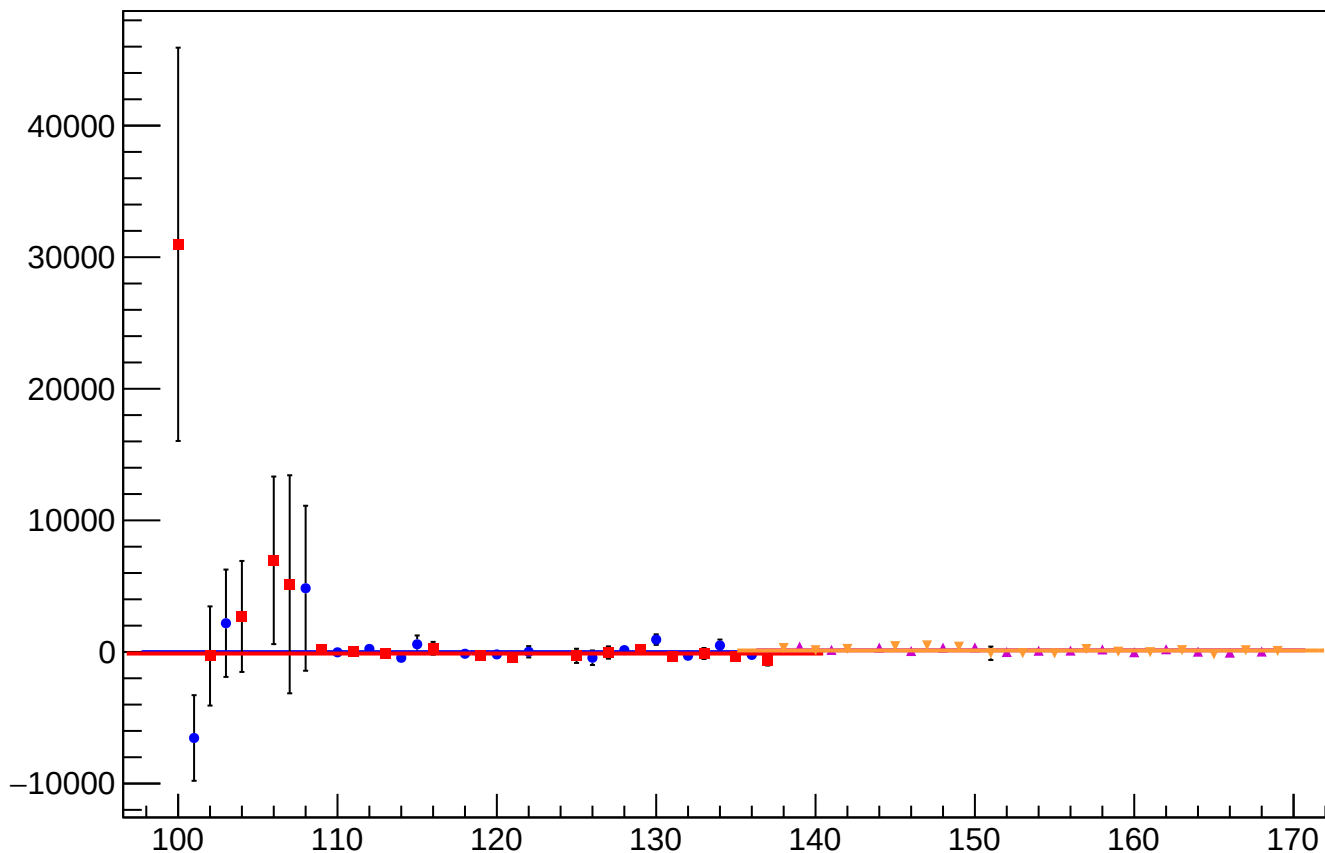
Right: 25.282 $\pm$ 0.005 χ^2 /NDF: 29624.6/33

In: 25.100 $\pm$ 0.004 χ^2 /NDF:31851.0/30

Out: 25.158 $\pm$ 0.004 χ^2 /NDF:23974.2/33

All: 25.129 $\pm$ 0.003 χ^2 /NDF: 55932.5/64

asym_bcm_cav4cQ_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -13.160 ± 84.454 χ^2/NDF : 18.3/15

Left Out: 111.239 ± 63.527 χ^2/NDF : 7.8/15

Right Out: -119.984 ± 78.247 χ^2/NDF : 14.4/17

Left In: 126.744 ± 54.828 χ^2/NDF : 5.6/14

Left: 120.125 ± 41.507 χ^2/NDF : 13.4/30

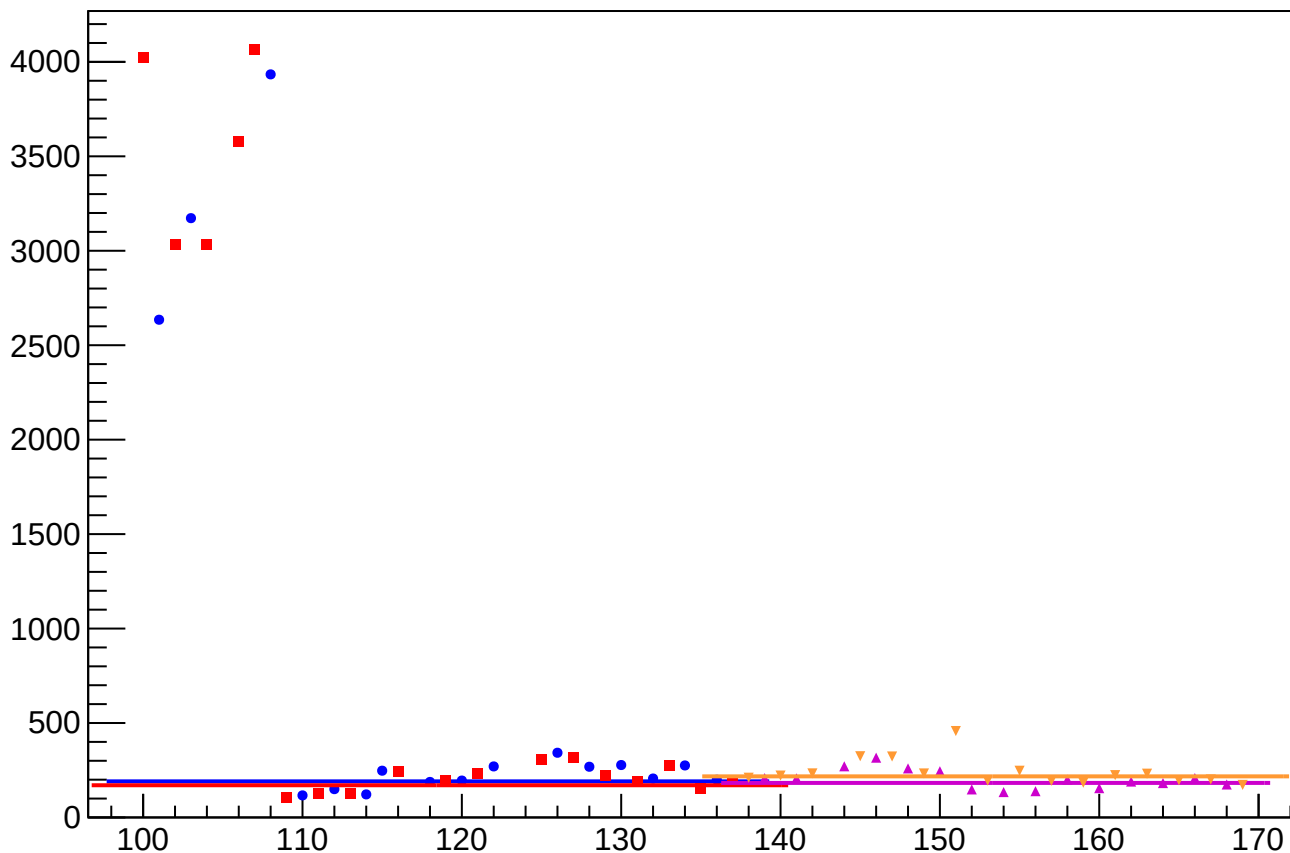
Right: -70.641 ± 57.398 χ^2/NDF : 33.6/33

In: 85.262 ± 45.987 χ^2/NDF : 25.8/30

Out: 19.379 ± 49.319 χ^2/NDF : 27.4/33

All: 54.621 ± 33.634 χ^2/NDF : 54.2/64

asym_bcm_cav4cQ_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 191.070+/-0.060 χ^2/NDF : 3833952.4/15

Left Out: 217.535+/-0.045 χ^2/NDF :1068697.8/15

Right Out: 170.494+/-0.055 χ^2/NDF : 4254820.8/17

Left In: 182.836+/-0.039 χ^2/NDF :1319788.5/14

Left: 197.649+/-0.029 χ^2/NDF : 2730449.6/30

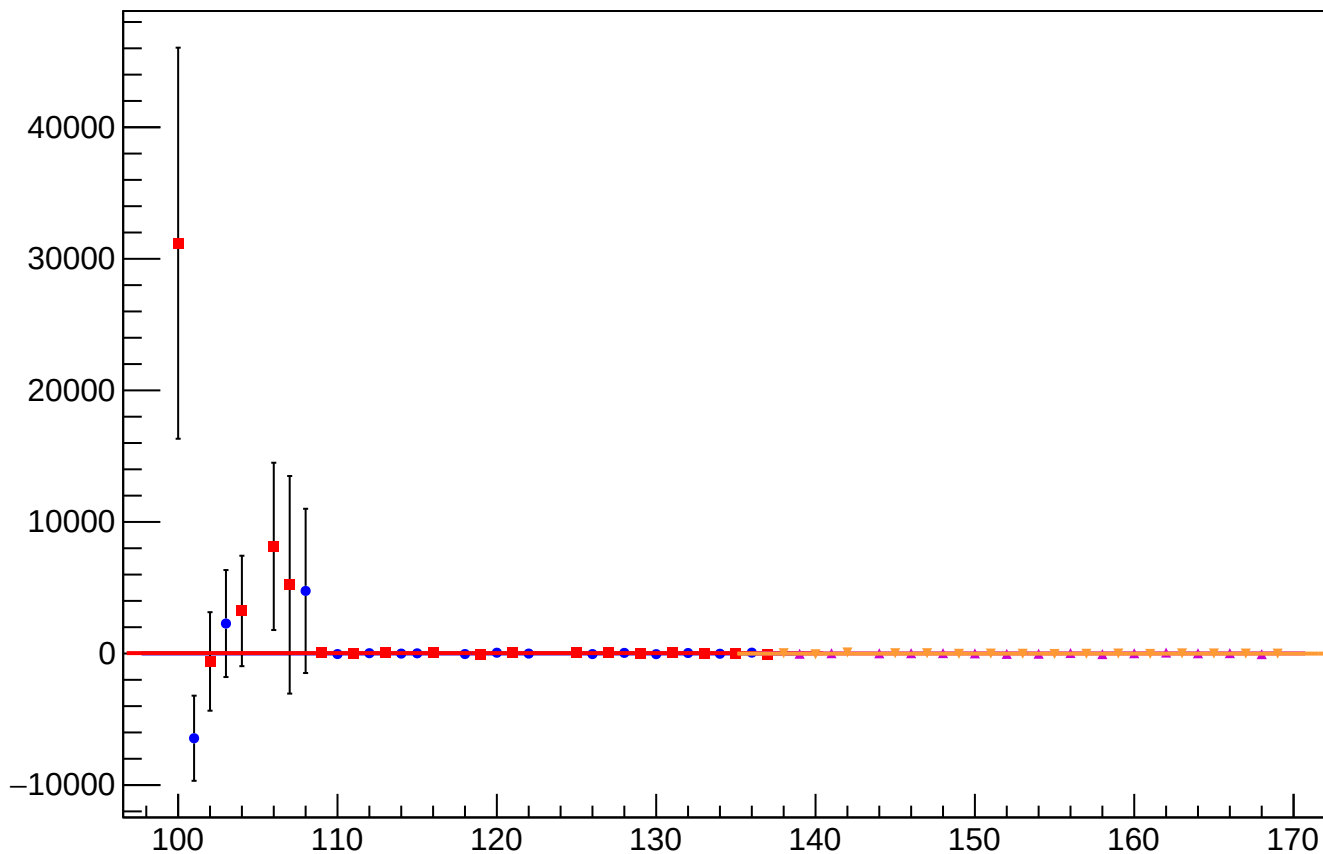
Right: 179.998+/-0.041 χ^2/NDF : 8152654.9/33

In: 185.277+/-0.033 χ^2/NDF :5167114.7/30

Out: 198.846+/-0.035 χ^2/NDF :5759199.6/33

All: 191.588+/-0.024 χ^2/NDF : 11007296.2/64

asym_bcm_cav4cQ_an_ds_dd_mean vs Slug, Sign Corrected



Right In: 6.490 $\pm$ 11.764 χ^2 /NDF: 18.3/15

Left Out: -7.336 $\pm$ 8.134 χ^2 /NDF:10.7/15

Right Out: 30.740 $\pm$ 12.084 χ^2 /NDF: 19.9/17

Left In: 8.946 $\pm$ 8.254 χ^2 /NDF:16.0/14

Left: 0.686 $\pm$ 5.794 χ^2 /NDF: 28.7/30

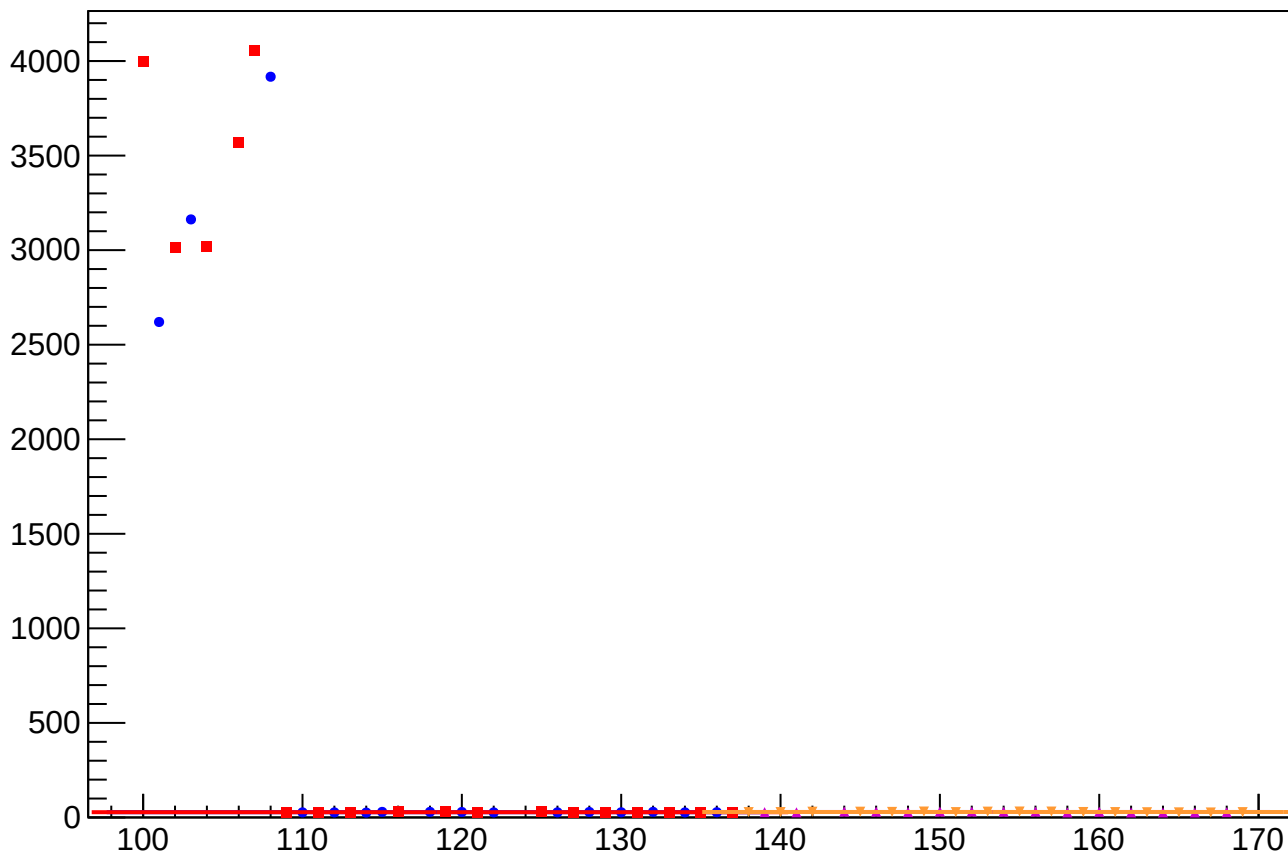
Right: 18.290 $\pm$ 8.429 χ^2 /NDF: 40.2/33

In: 8.135 $\pm$ 6.757 χ^2 /NDF:34.3/30

Out: 4.537 $\pm$ 6.748 χ^2 /NDF:37.4/33

All: 6.334 $\pm$ 4.775 χ^2 /NDF: 71.9/64

asym_bcm_cav4cQ_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 27.825+/-0.008 χ^2/NDF : 3265895.3/15

Left Out: 28.821+/-0.006 χ^2/NDF : 71299.8/15

Right Out: 27.778+/-0.009 χ^2/NDF : 3558398.6/17

Left In: 28.959+/-0.006 χ^2/NDF : 109573.3/14

Left: 28.889+/-0.004 χ^2/NDF : 181157.6/30

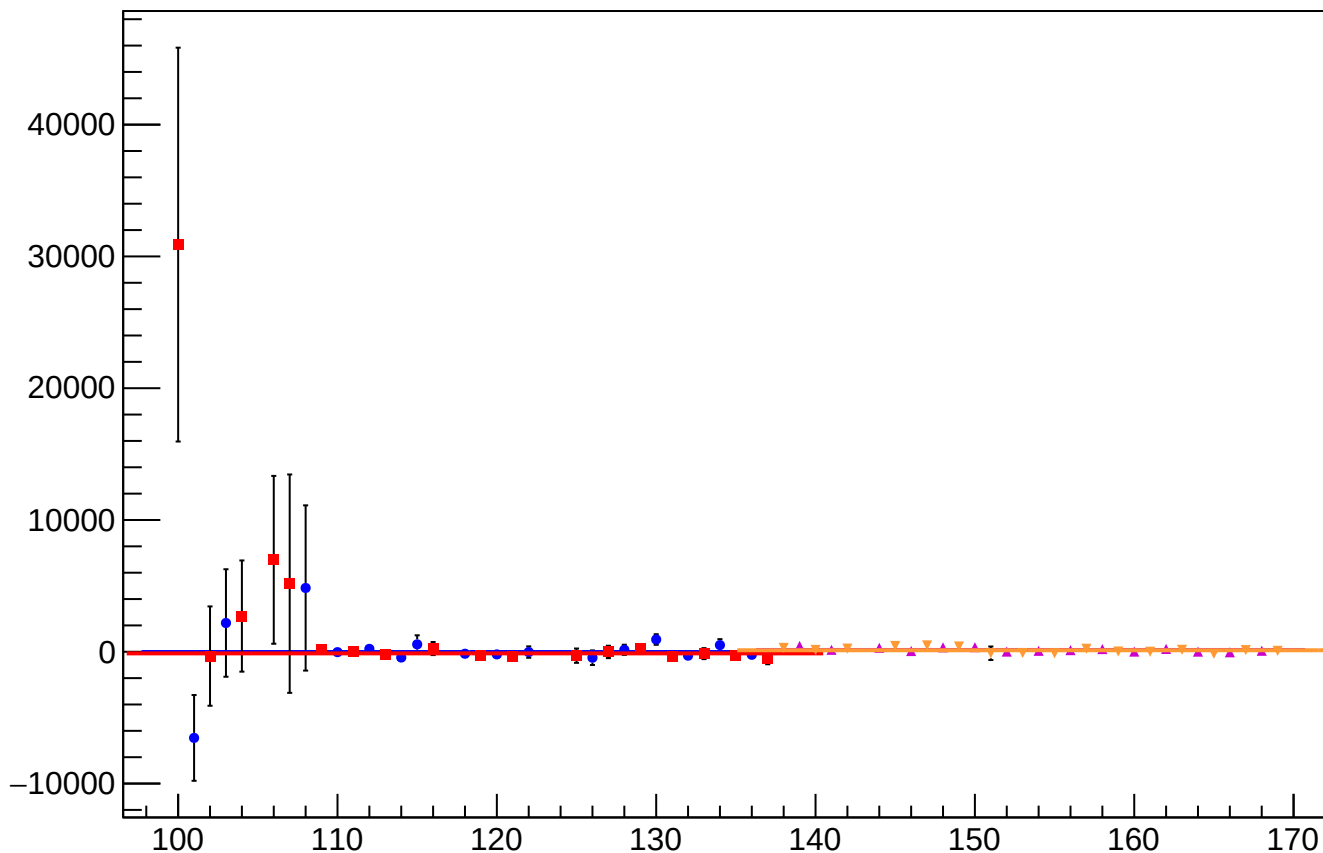
Right: 27.802+/-0.006 χ^2/NDF : 6824309.2/33

In: 28.585+/-0.005 χ^2/NDF : 3387930.1/30

Out: 28.496+/-0.005 χ^2/NDF : 3639948.5/33

All: 28.540+/-0.003 χ^2/NDF : 7028052.9/64

asym_bcm_cav4cQ_dg_ds_avg_mean vs Slug, Sign Corrected



Right In: -19.522 ± 85.063 $\chi^2/\text{NDF}: 18.2/15$

Left Out: 115.050 ± 64.037 $\chi^2/\text{NDF}: 7.5/15$

Right Out: -121.544 ± 78.844 $\chi^2/\text{NDF}: 13.2/17$

Left In: 136.210 ± 55.349 $\chi^2/\text{NDF}: 5.3/14$

Left: 127.162 ± 41.875 $\chi^2/\text{NDF}: 12.9/30$

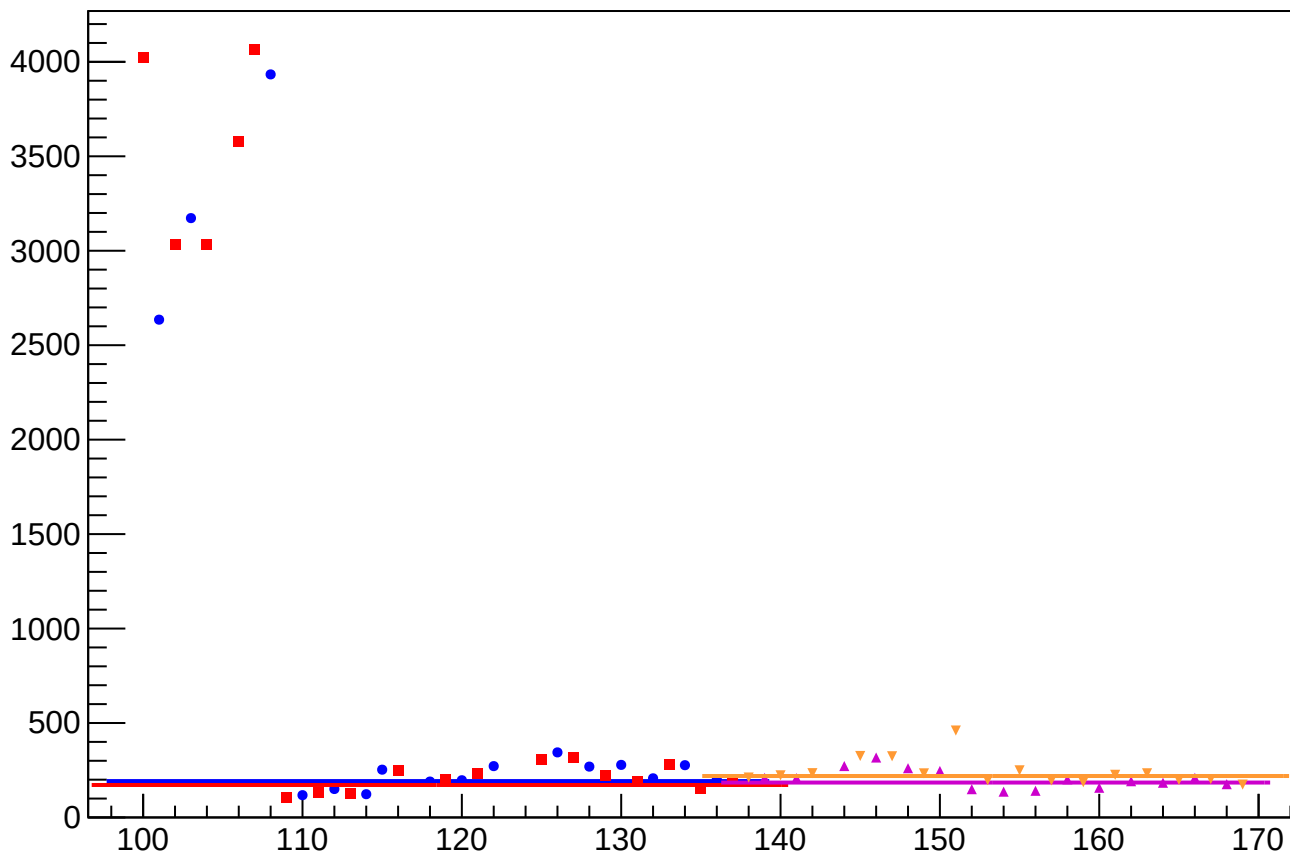
Right: -74.398 ± 57.825 $\chi^2/\text{NDF}: 32.2/33$

In: 89.888 ± 46.392 $\chi^2/\text{NDF}: 25.9/30$

Out: 21.011 ± 49.707 $\chi^2/\text{NDF}: 26.2/33$

All: 57.822 ± 33.916 $\chi^2/\text{NDF}: 53.0/64$

asym_bcm_cav4cQ_dg_ds_avg_rms vs Slug, Sign Corrected



Right In: 192.560 ± 0.060 χ^2/NDF : 3822789.1/15

Left Out: 219.391 ± 0.045 χ^2/NDF : 1052121.3/15

Right Out: 171.899 ± 0.056 χ^2/NDF : 4247800.5/17

Left In: 184.757 ± 0.039 χ^2/NDF : 1279997.5/14

Left: 199.567 ± 0.030 χ^2/NDF : 2666968.5/30

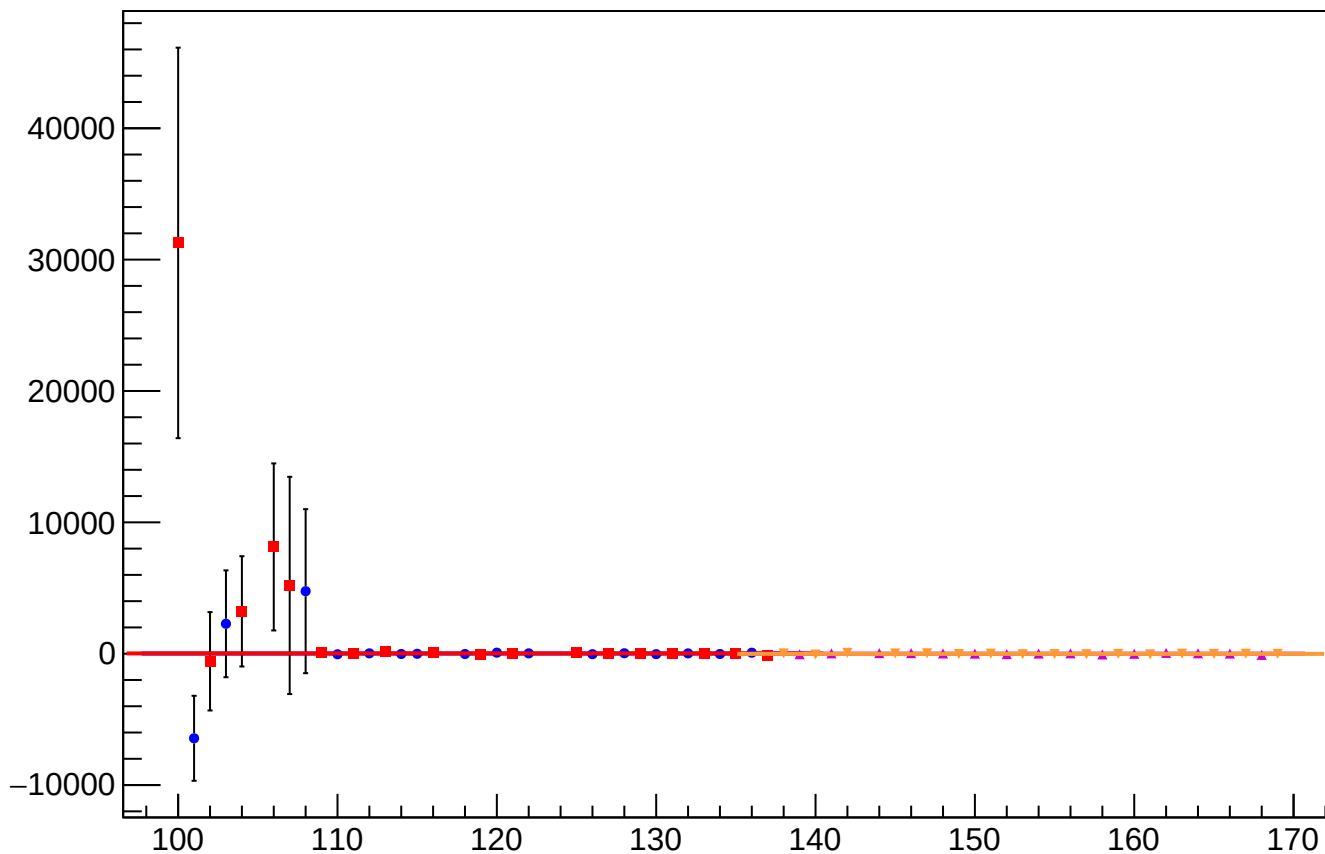
Right: 181.447 ± 0.041 χ^2/NDF : 8134058.4/33

In: 187.078 ± 0.033 χ^2/NDF : 5114609.5/30

Out: 200.514 ± 0.035 χ^2/NDF : 5737155.2/33

All: 193.333 ± 0.024 χ^2/NDF : 10929859.9/64

asym_bcm_cav4cQ_dg_ds_dd_mean vs Slug, Sign Corrected



Right In: 13.713+/-13.062 χ^2/NDF : 15.5/15

Left Out: -14.166+/-8.766 χ^2/NDF : 11.5/15

Right Out: 21.906+/-13.382 χ^2/NDF : 28.4/17

Left In: 3.476+/-8.891 χ^2/NDF : 22.5/14

Left: -5.469+/-6.242 χ^2/NDF : 36.0/30

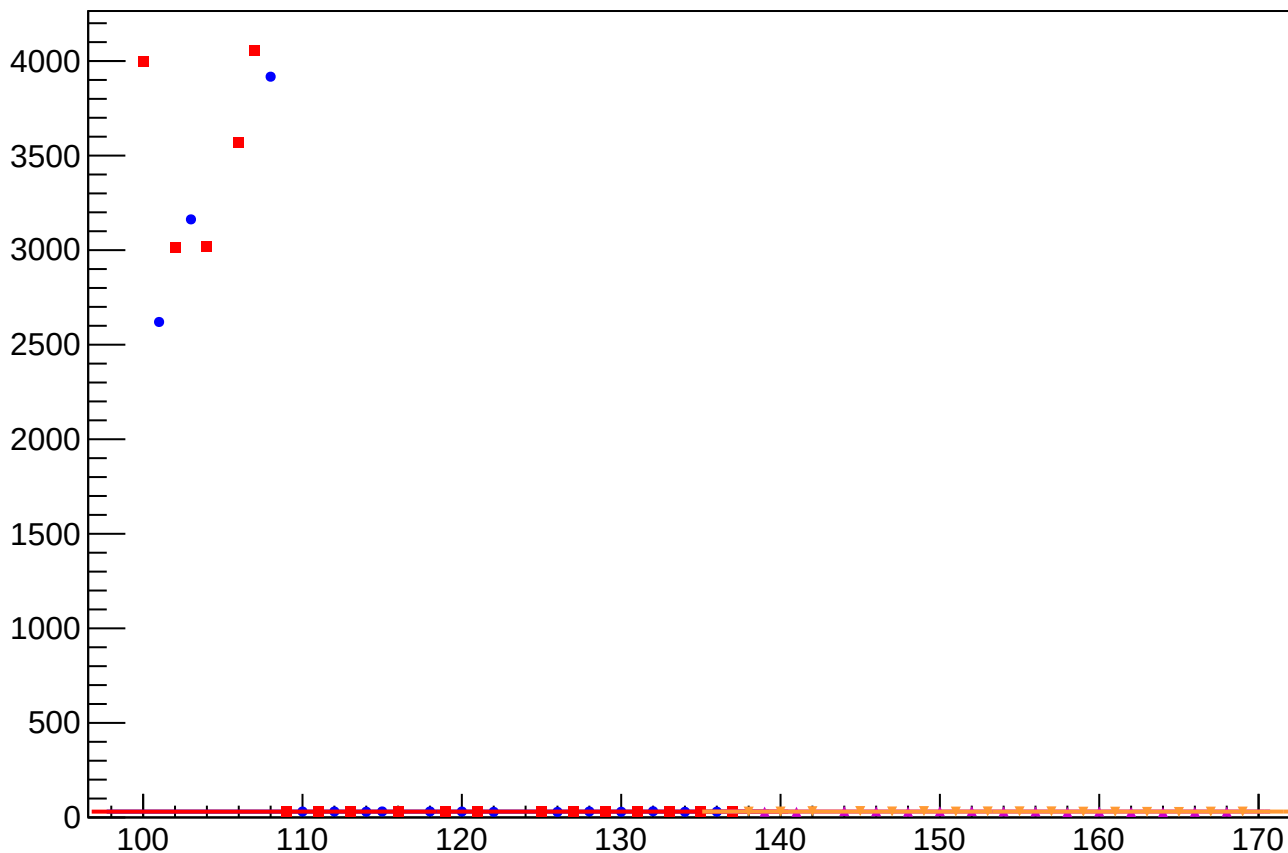
Right: 17.710+/-9.347 χ^2/NDF : 44.0/33

In: 6.717+/-7.350 χ^2/NDF : 38.4/30

Out: -3.335+/-7.333 χ^2/NDF : 45.0/33

All: 1.680+/-5.191 χ^2/NDF : 84.3/64

asym_bcm_cav4cQ_dg_ds_dd_rms vs Slug, Sign Corrected



Right In: 30.928+/-0.009 χ^2/NDF : 3252607.8/15

Left Out: 31.085+/-0.006 χ^2/NDF : 41805.6/15

Right Out: 30.804+/-0.009 χ^2/NDF : 3535959.8/17

Left In: 31.215+/-0.006 χ^2/NDF : 76829.4/14

Left: 31.149+/-0.004 χ^2/NDF : 118851.0/30

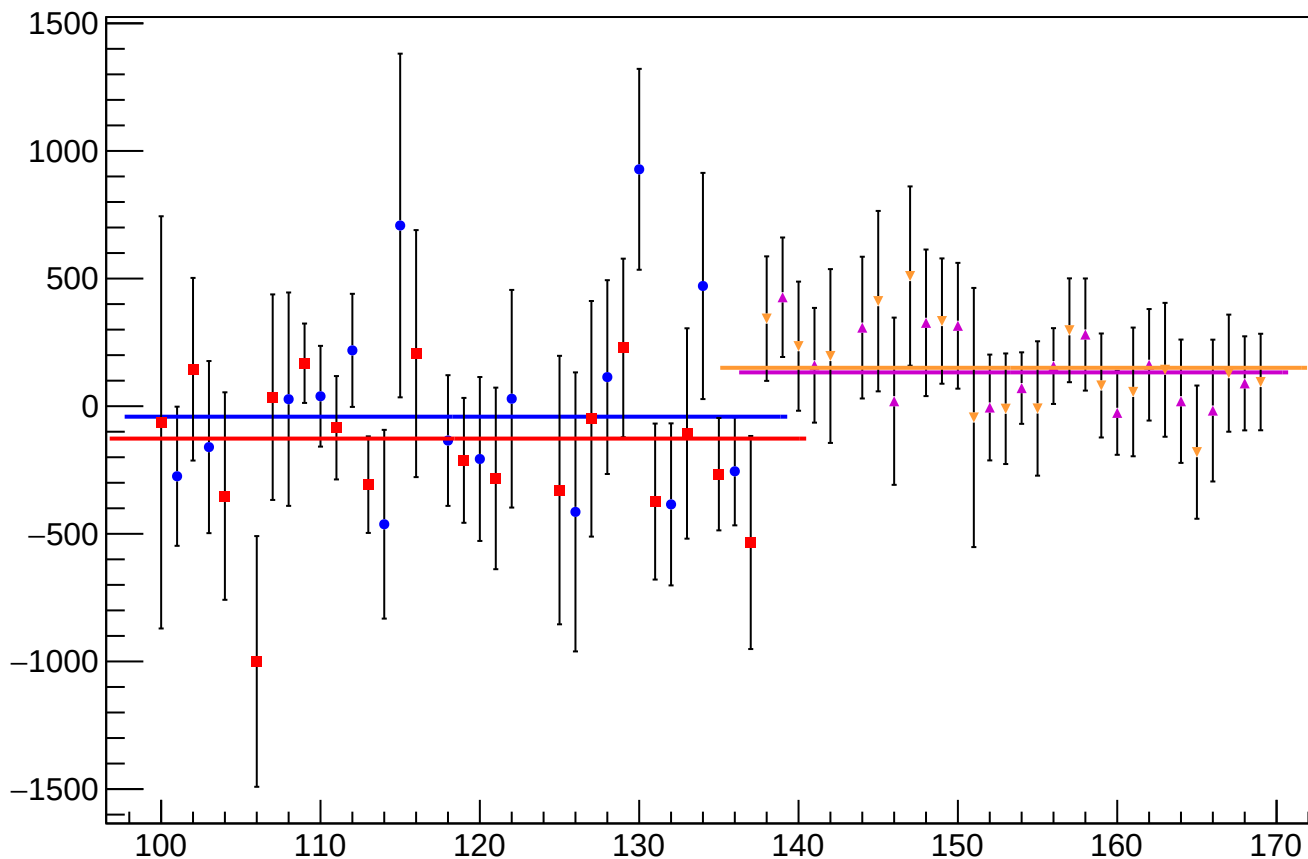
Right: 30.868+/-0.007 χ^2/NDF : 6788655.9/33

In: 31.124+/-0.005 χ^2/NDF : 3330094.9/30

Out: 31.001+/-0.005 χ^2/NDF : 3578382.9/33

All: 31.062+/-0.004 χ^2/NDF : 6908760.4/64

asym_bcm_dg_us_an_us_avg_mean vs Slug, Sign Corrected



Right In: -41.114 $\pm$ 77.139 χ^2 /NDF: 15.6/15

Left Out: 150.426 $\pm$ 62.794 χ^2 /NDF:6.4/15

Right Out: -126.896 $\pm$ 69.382 χ^2 /NDF: 12.8/17

Left In: 132.434 $\pm$ 53.703 χ^2 /NDF:5.8/14

Left: 140.034 $\pm$ 40.813 χ^2 /NDF: 12.2/30

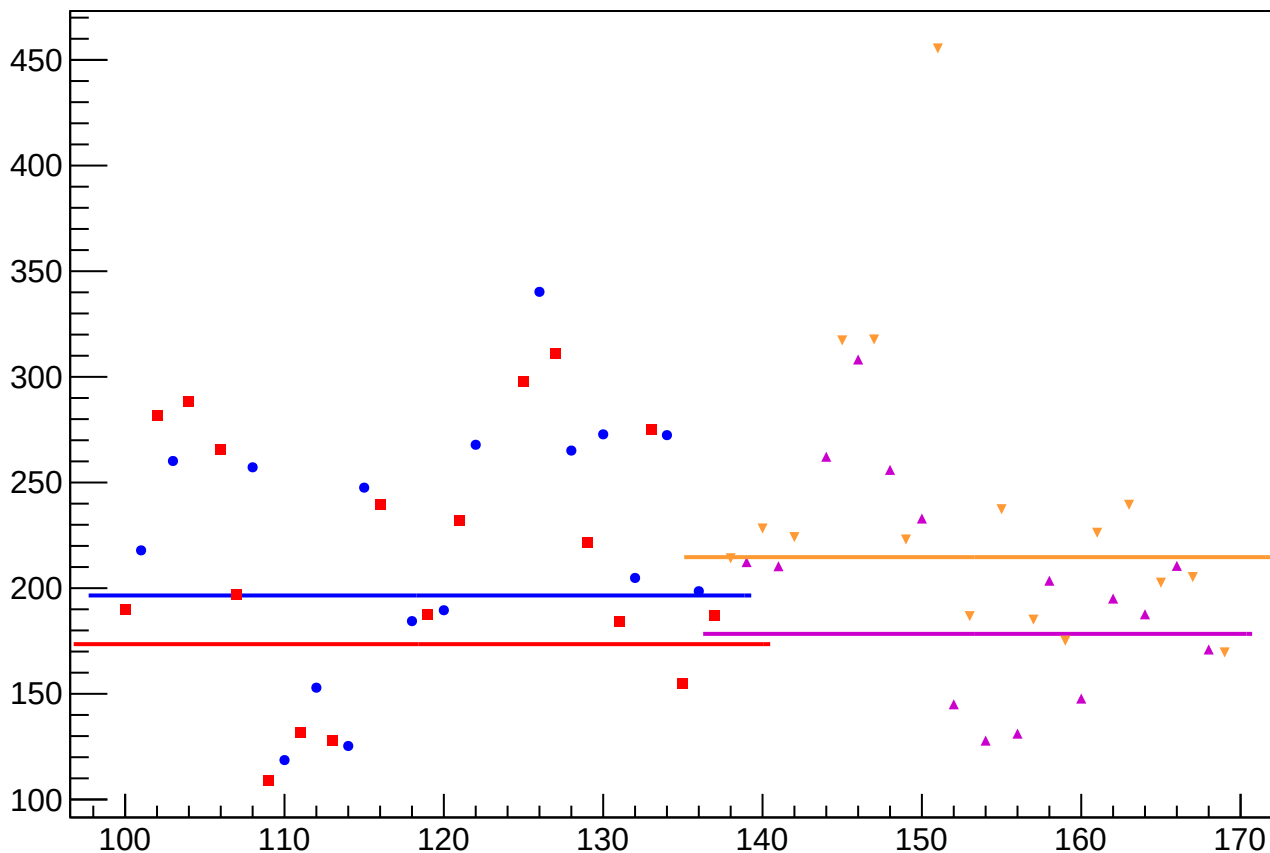
Right: -88.533 $\pm$ 51.586 χ^2 /NDF: 29.1/33

In: 75.779 $\pm$ 44.074 χ^2 /NDF:24.8/30

Out: 25.554 $\pm$ 46.558 χ^2 /NDF:28.0/33

All: 52.042 $\pm$ 32.007 χ^2 /NDF: 53.4/64

asym_bcm_dg_us_an_us_avg_rms vs Slug, Sign Corrected



Right In: 196.542 $\pm$ 0.055 χ^2 /NDF: 1000770.4/15

Left Out: 214.681 $\pm$ 0.044 χ^2 /NDF:1109188.6/15

Right Out: 173.509 $\pm$ 0.049 χ^2 /NDF: 1532720.5/17

Left In: 178.373 $\pm$ 0.038 χ^2 /NDF:1477702.0/14

Left: 193.711 $\pm$ 0.029 χ^2 /NDF: 2973088.6/30

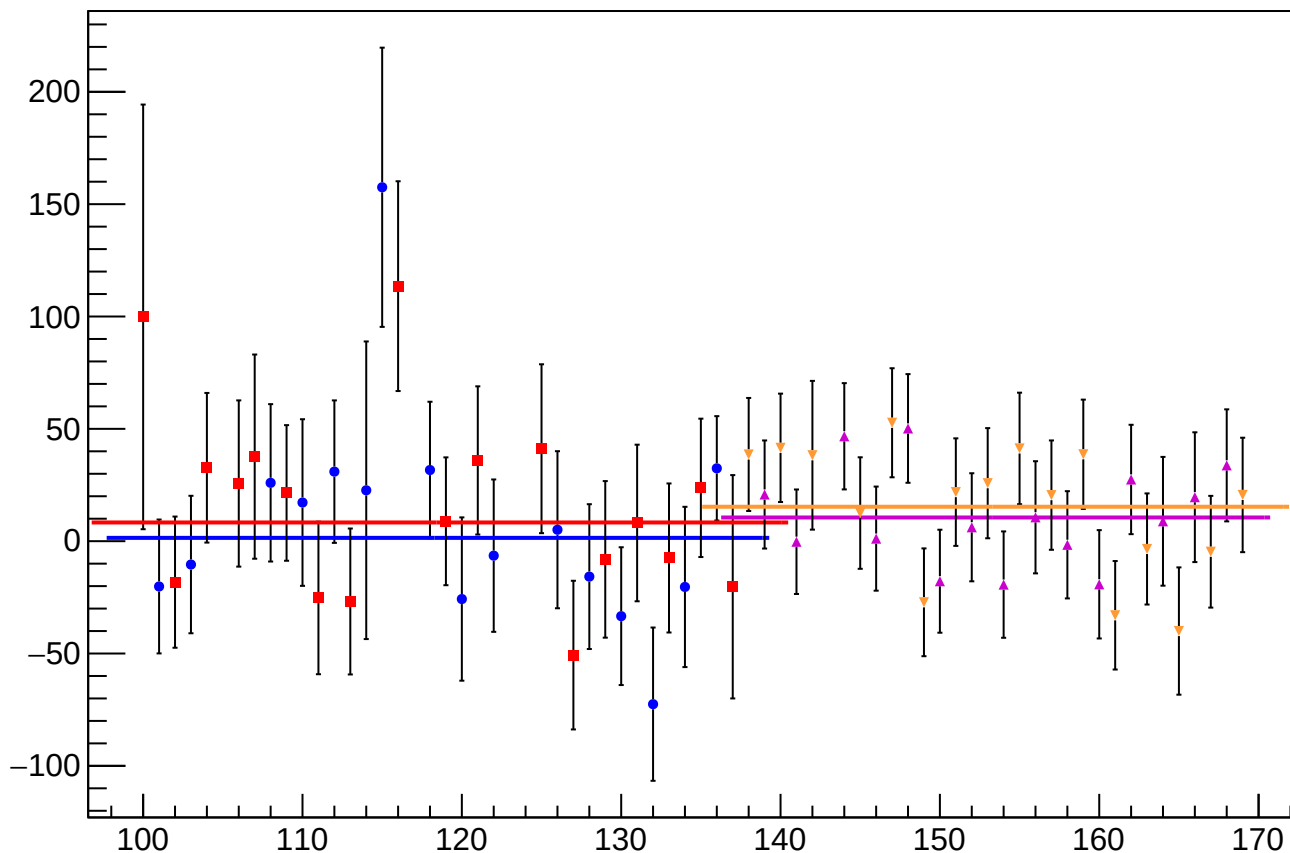
Right: 183.810 $\pm$ 0.036 χ^2 /NDF: 2632060.1/33

In: 184.304 $\pm$ 0.031 χ^2 /NDF:2553208.2/30

Out: 196.142 $\pm$ 0.033 χ^2 /NDF:3029059.3/33

All: 189.899 $\pm$ 0.023 χ^2 /NDF: 5650461.0/64

asym_bcm_dg_us_an_us_dd_mean vs Slug, Sign Corrected



Right In: 1.475 ± 8.370 $\chi^2/\text{NDF}: 18.7/15$

Left Out: 15.329 ± 6.270 $\chi^2/\text{NDF}: 19.4/15$

Right Out: 8.329 ± 8.286 $\chi^2/\text{NDF}: 16.0/17$

Left In: 10.547 ± 6.306 $\chi^2/\text{NDF}: 12.0/14$

Left: 12.952 ± 4.446 $\chi^2/\text{NDF}: 31.7/30$

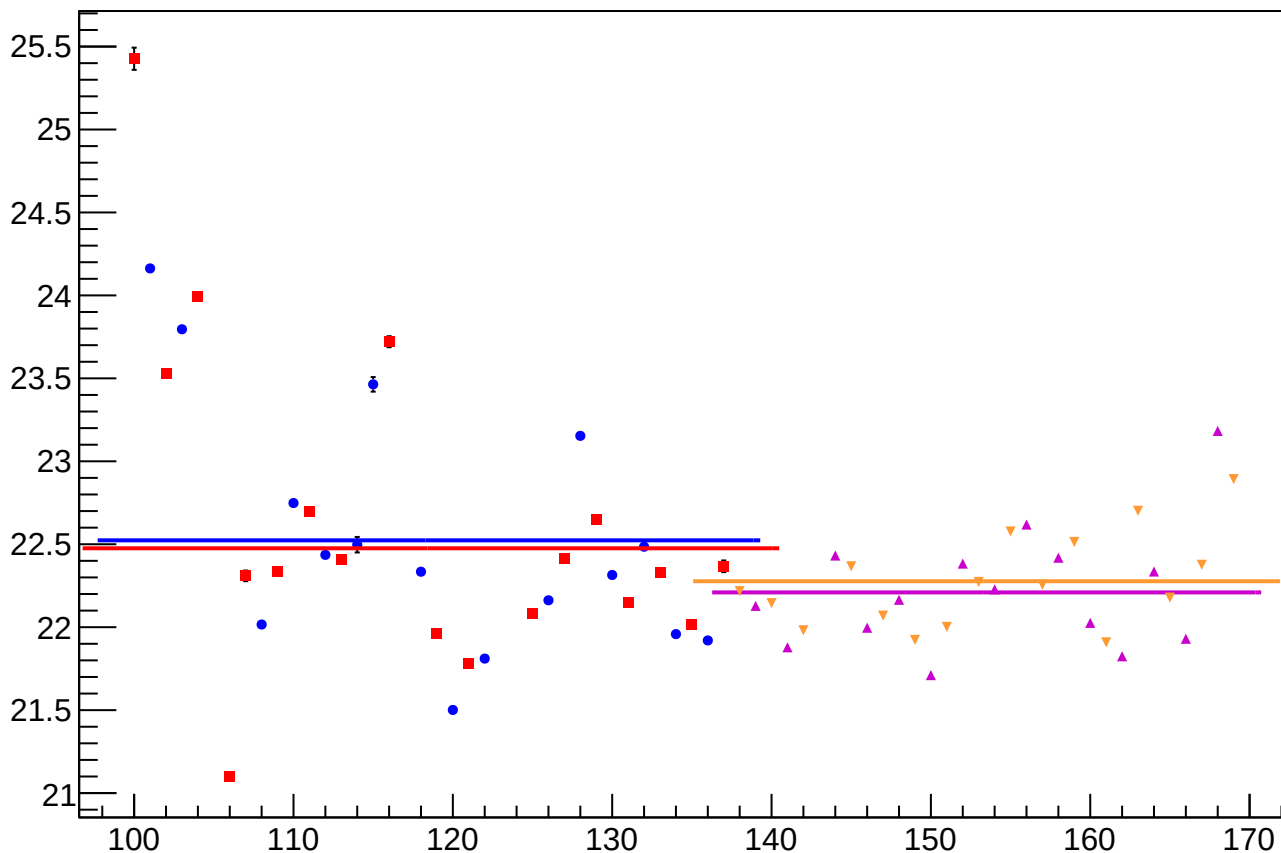
Right: 4.937 ± 5.889 $\chi^2/\text{NDF}: 35.0/33$

In: 7.263 ± 5.037 $\chi^2/\text{NDF}: 31.4/30$

Out: 12.780 ± 5.000 $\chi^2/\text{NDF}: 35.9/33$

All: 10.042 ± 3.548 $\chi^2/\text{NDF}: 67.9/64$

asym_bcm_dg_us_an_us_dd_rms vs Slug, Sign Corrected



Right In: 22.524 $\pm$ 0.006 χ^2 /NDF: 15947.8/15

Left Out: 22.277 $\pm$ 0.004 χ^2 /NDF: 3864.6/15

Right Out: 22.476 $\pm$ 0.006 χ^2 /NDF: 15536.6/17

Left In: 22.210 $\pm$ 0.004 χ^2 /NDF: 6412.3/14

Left: 22.244 $\pm$ 0.003 χ^2 /NDF: 10391.8/30

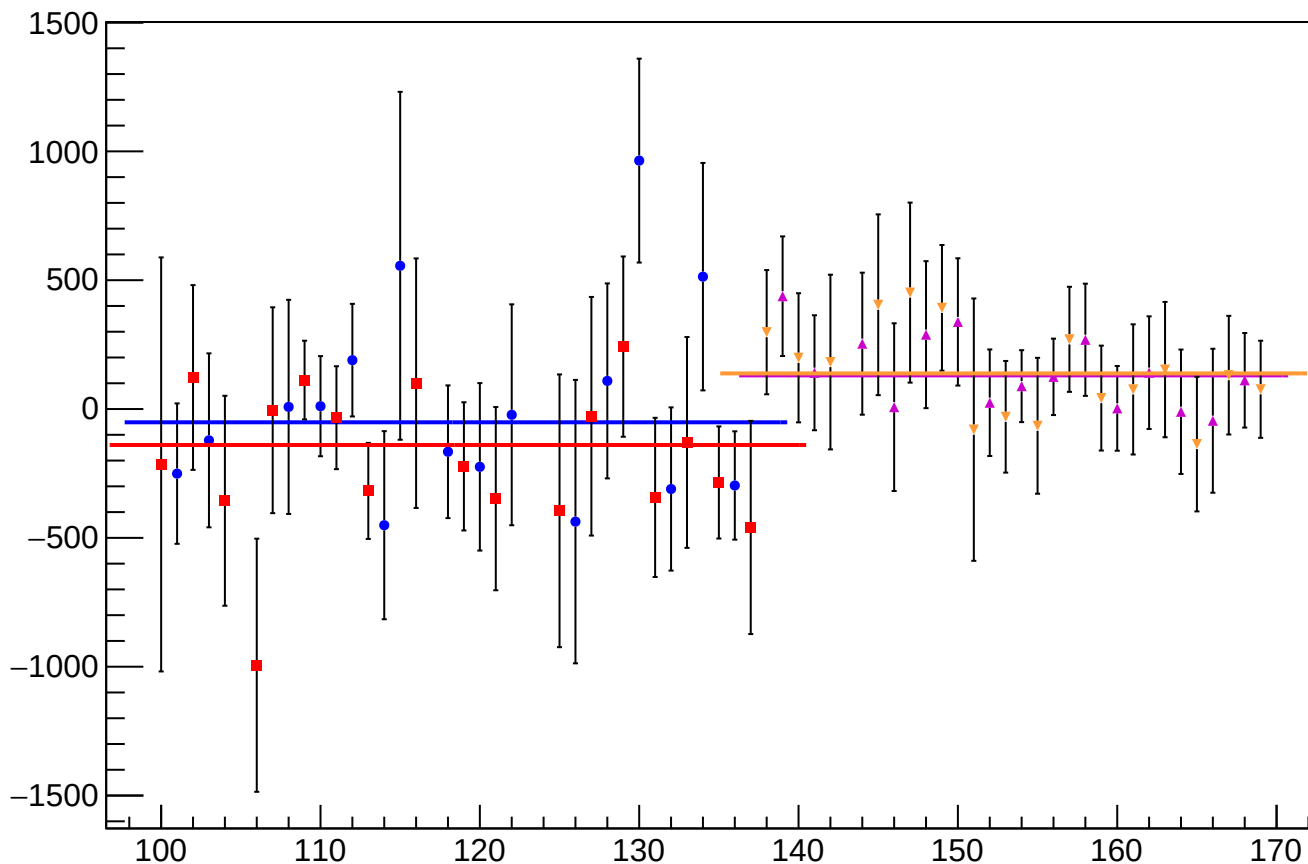
Right: 22.499 $\pm$ 0.004 χ^2 /NDF: 31517.5/33

In: 22.323 $\pm$ 0.004 χ^2 /NDF: 24154.4/30

Out: 22.349 $\pm$ 0.004 χ^2 /NDF: 20131.8/33

All: 22.336 $\pm$ 0.003 χ^2 /NDF: 44313.2/64

asym_bcm_dg_ds_an_us_avg_mean vs Slug, Sign Corrected



Right In: -51.492 $\pm$ 76.798 χ^2 /NDF: 15.3/15

Left Out: 138.238 $\pm$ 62.674 χ^2 /NDF:6.3/15

Right Out: -139.546 $\pm$ 68.888 χ^2 /NDF: 11.6/17

Left In: 130.536 $\pm$ 53.542 χ^2 /NDF:5.2/14

Left: 133.785 $\pm$ 40.709 χ^2 /NDF: 11.5/30

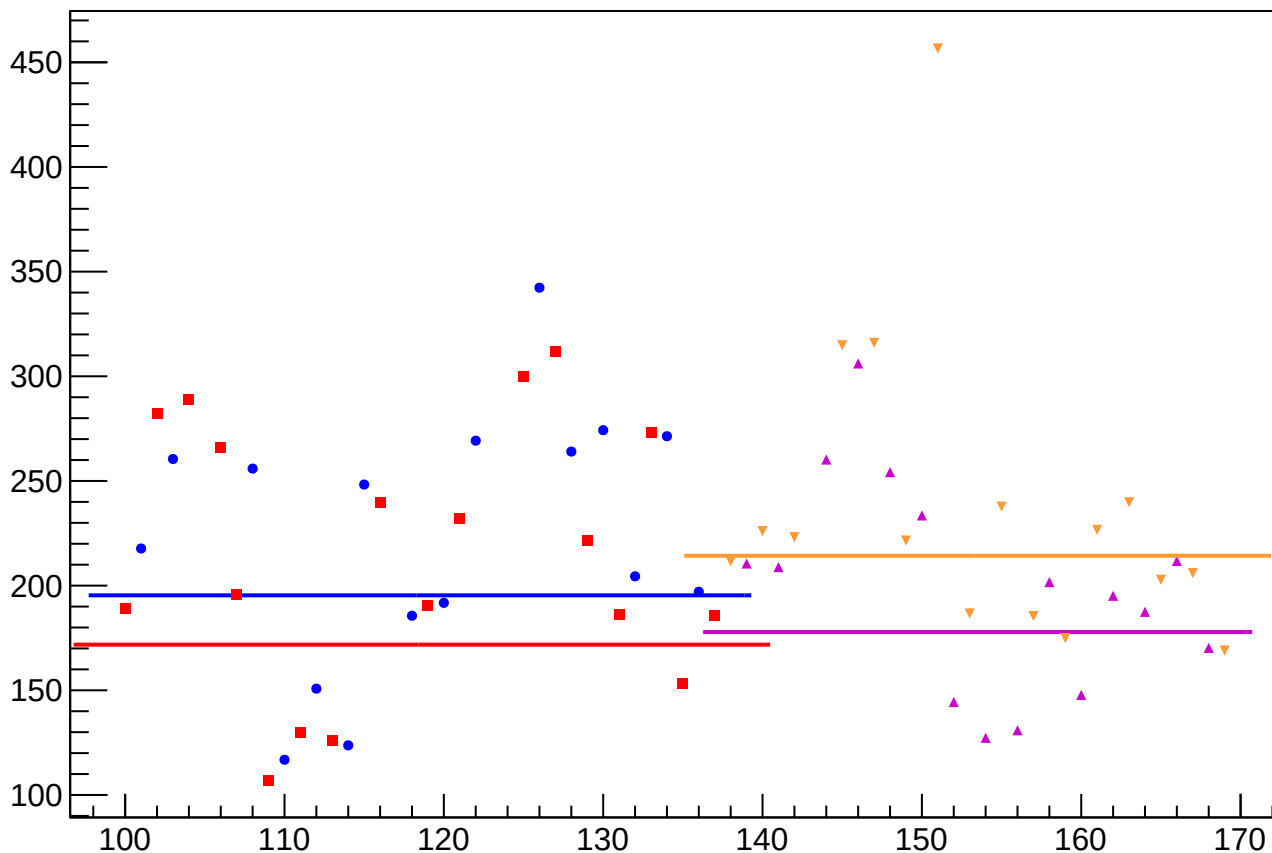
Right: -100.285 $\pm$ 51.280 χ^2 /NDF: 27.6/33

In: 70.998 $\pm$ 43.921 χ^2 /NDF:24.3/30

Out: 12.438 $\pm$ 46.359 χ^2 /NDF:26.7/33

All: 43.298 $\pm$ 31.884 χ^2 /NDF: 51.9/64

asym_bcm_dg_ds_an_us_avg_rms vs Slug, Sign Corrected



Right In: 195.361+/-0.054 χ^2/NDF : 1041432.1/15

Left Out: 214.269+/-0.044 χ^2/NDF : 1103480.4/15

Right Out: 171.805+/-0.049 χ^2/NDF : 1600663.6/17

Left In: 177.835+/-0.038 χ^2/NDF : 1467361.5/14

Left: 193.207+/-0.029 χ^2/NDF : 2961555.8/30

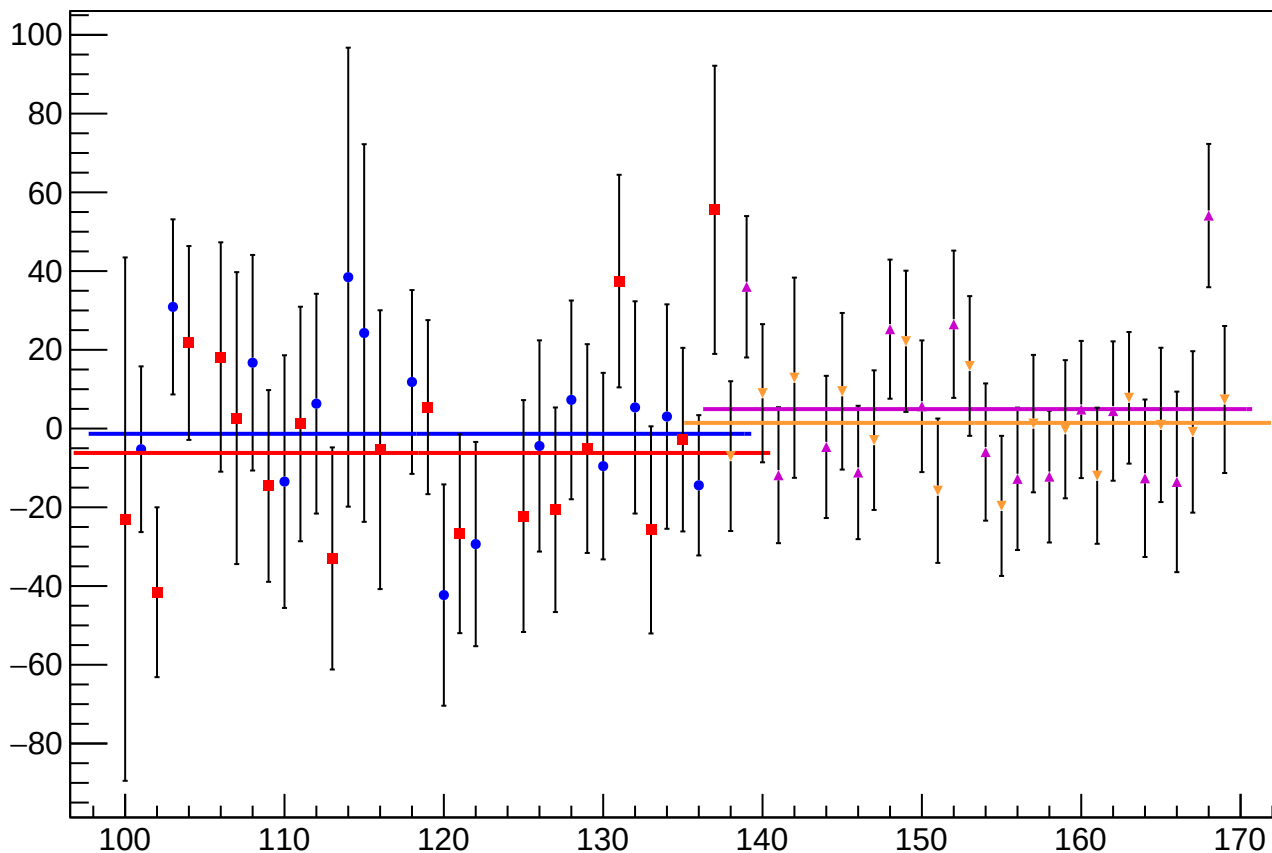
Right: 182.308+/-0.036 χ^2/NDF : 2746362.8/33

In: 183.567+/-0.031 χ^2/NDF : 2578882.5/30

Out: 195.038+/-0.033 χ^2/NDF : 3119927.2/33

All: 188.993+/-0.023 χ^2/NDF : 5763336.5/64

asym_bcm_dg_ds_an_us_dd_mean vs Slug, Sign Corrected



Right In: -1.331 ± 6.499 χ^2/NDF : 8.0/15

Left Out: 1.441 ± 4.613 χ^2/NDF : 6.0/15

Right Out: -6.195 ± 6.473 χ^2/NDF : 13.5/17

Left In: 4.942 ± 4.639 χ^2/NDF : 18.9/14

Left: 3.182 ± 3.271 χ^2/NDF : 25.1/30

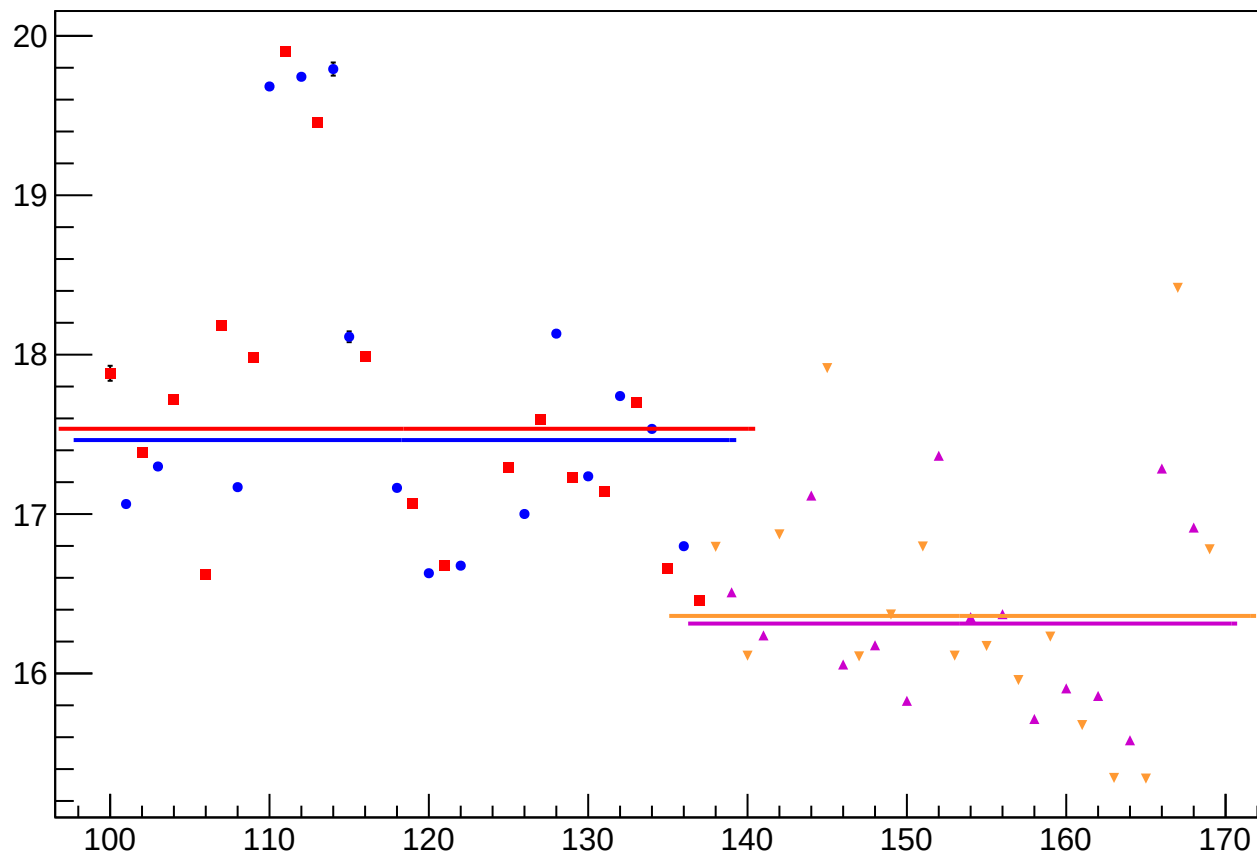
Right: -3.773 ± 4.586 χ^2/NDF : 21.8/33

In: 2.825 ± 3.776 χ^2/NDF : 27.5/30

Out: -1.131 ± 3.757 χ^2/NDF : 20.3/33

All: 0.837 ± 2.663 χ^2/NDF : 48.4/64

asym_bcm_dg_ds_an_us_dd_rms vs Slug, Sign Corrected



Right In: 17.464 $\pm$ 0.005 χ^2 /NDF: 36650.1/15

Left Out: 16.361 $\pm$ 0.003 χ^2 /NDF: 54904.9/15

Right Out: 17.535 $\pm$ 0.005 χ^2 /NDF: 34475.1/17

Left In: 16.313 $\pm$ 0.003 χ^2 /NDF: 26289.4/14

Left: 16.337 $\pm$ 0.002 χ^2 /NDF: 81302.2/30

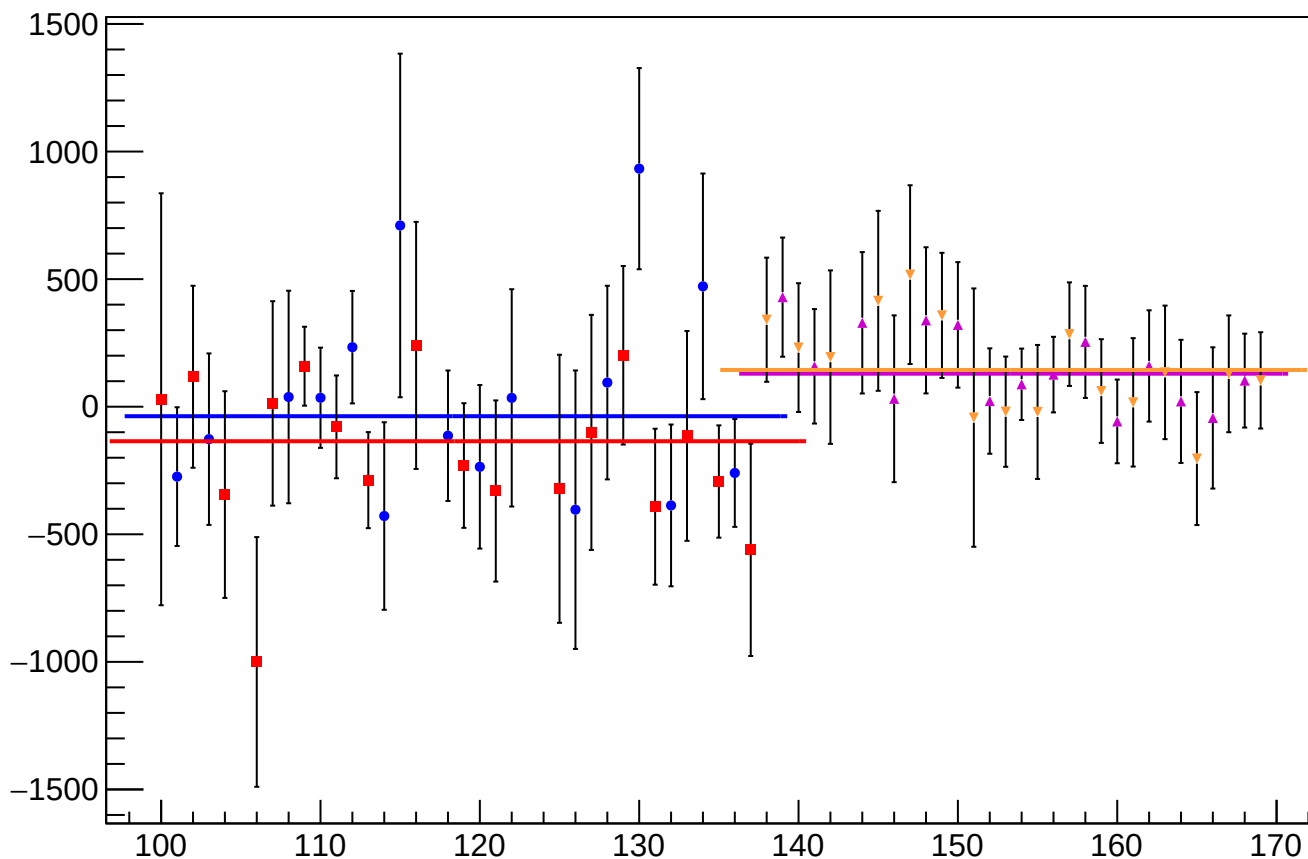
Right: 17.500 $\pm$ 0.003 χ^2 /NDF: 71244.5/33

In: 16.702 $\pm$ 0.003 χ^2 /NDF: 104522.4/30

Out: 16.756 $\pm$ 0.003 χ^2 /NDF: 133017.0/33

All: 16.729 $\pm$ 0.002 χ^2 /NDF: 237752.2/64

asym_bcm_dg_us_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -37.241 $\pm$ 76.915 χ^2 /NDF: 15.6/15

Left Out: 144.080 $\pm$ 62.657 χ^2 /NDF: 7.1/15

Right Out: -135.279 $\pm$ 69.157 χ^2 /NDF: 12.8/17

Left In: 129.406 $\pm$ 53.598 χ^2 /NDF: 6.0/14

Left: 135.606 $\pm$ 40.729 χ^2 /NDF: 13.2/30

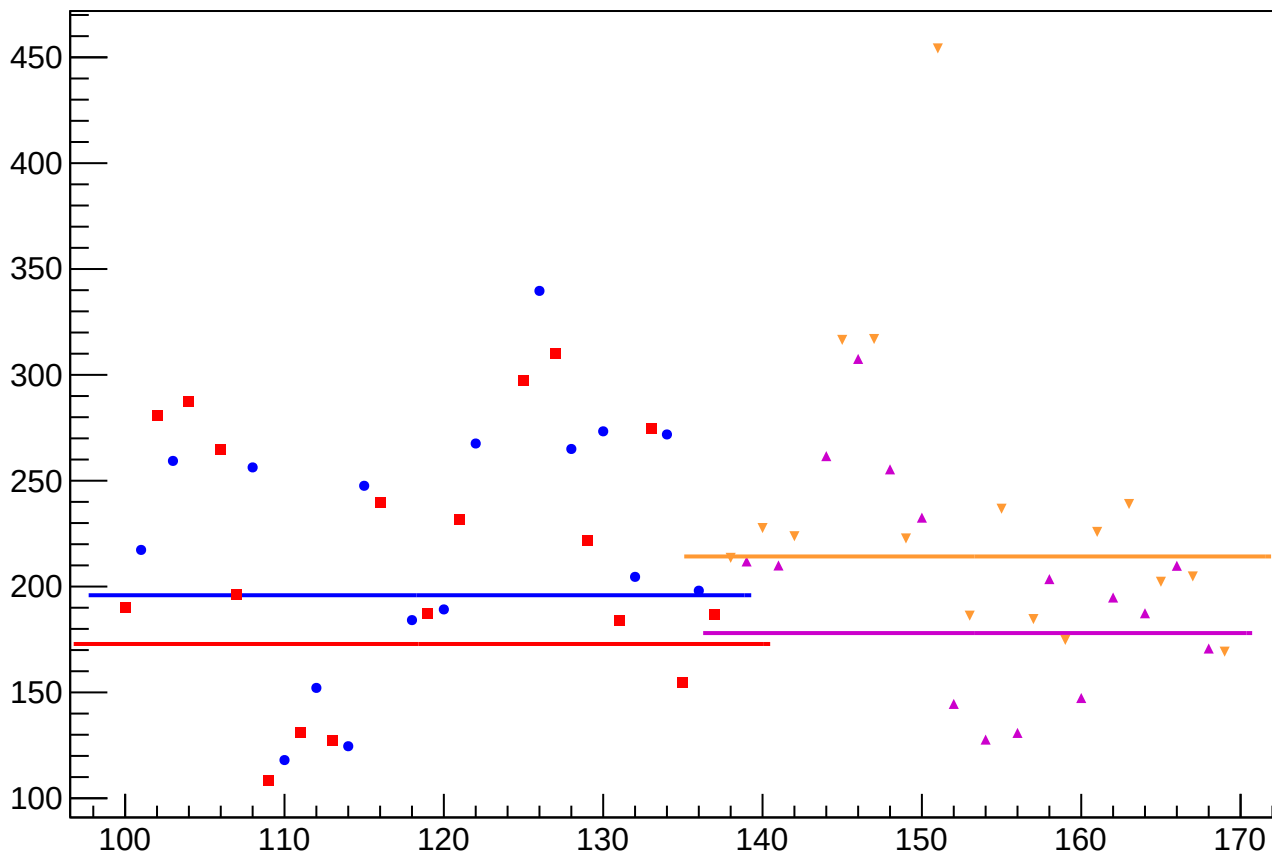
Right: -91.452 $\pm$ 51.426 χ^2 /NDF: 29.3/33

In: 74.933 $\pm$ 43.974 χ^2 /NDF: 24.8/30

Out: 18.143 $\pm$ 46.434 χ^2 /NDF: 28.9/33

All: 48.082 $\pm$ 31.929 χ^2 /NDF: 54.5/64

asym_bcm_dg_us_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 195.900+/-0.054 χ^2/NDF : 1011012.3/15

Left Out: 214.217+/-0.044 χ^2/NDF :1108709.2/15

Right Out: 172.873+/-0.049 χ^2/NDF : 1543258.3/17

Left In: 178.028+/-0.038 χ^2/NDF :1477698.6/14

Left: 193.320+/-0.029 χ^2/NDF : 2971653.2/30

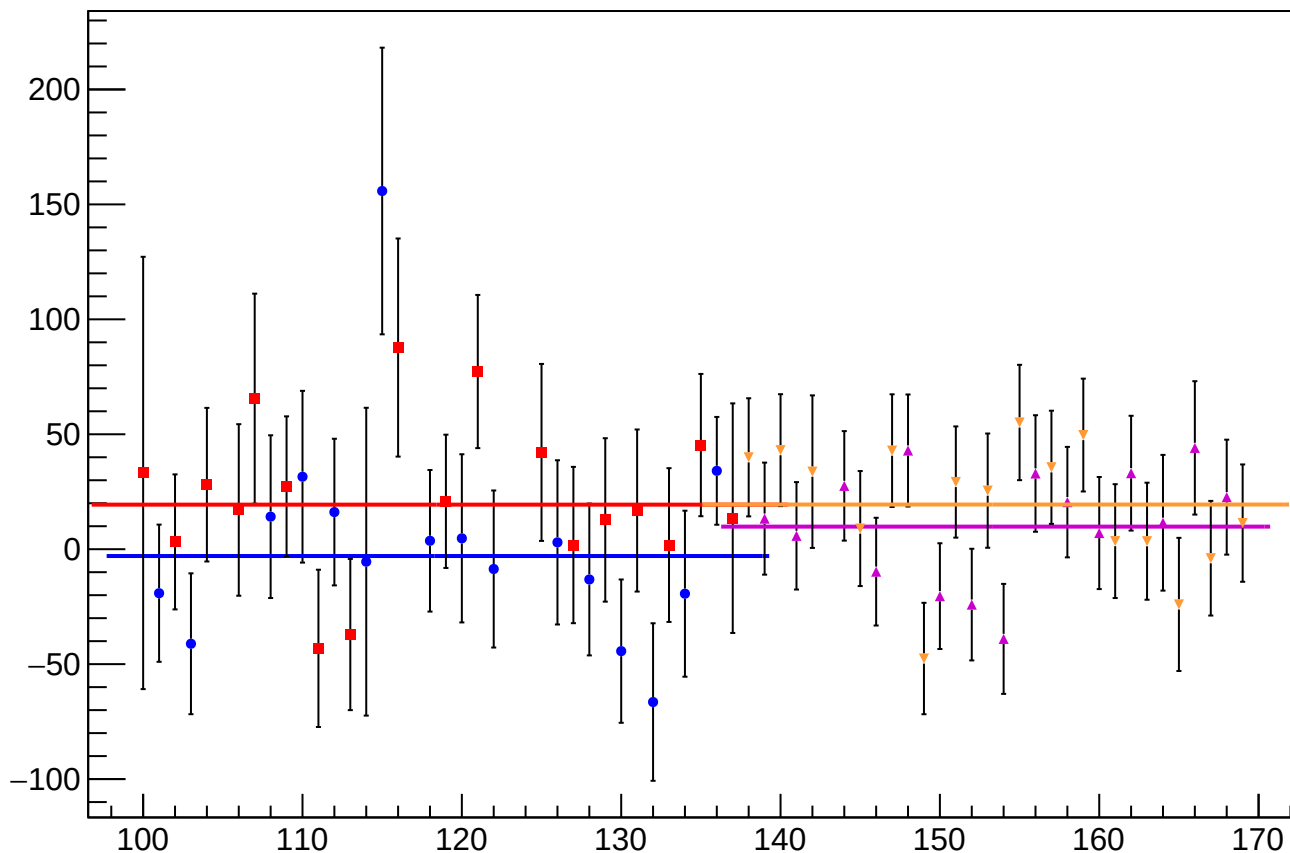
Right: 183.167+/-0.036 χ^2/NDF : 2653391.3/33

In: 183.870+/-0.031 χ^2/NDF :2561390.9/30

Out: 195.579+/-0.033 χ^2/NDF :3044518.5/33

All: 189.406+/-0.023 χ^2/NDF : 5672949.0/64

asym_bcm_dg_us_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -2.967 ± 8.454 $\chi^2/\text{NDF}: 17.9/15$

Left Out: 19.436 ± 6.348 $\chi^2/\text{NDF}: 18.7/15$

Right Out: 19.387 ± 8.381 $\chi^2/\text{NDF}: 14.5/17$

Left In: 9.824 ± 6.373 $\chi^2/\text{NDF}: 14.6/14$

Left: 14.649 ± 4.497 $\chi^2/\text{NDF}: 34.4/30$

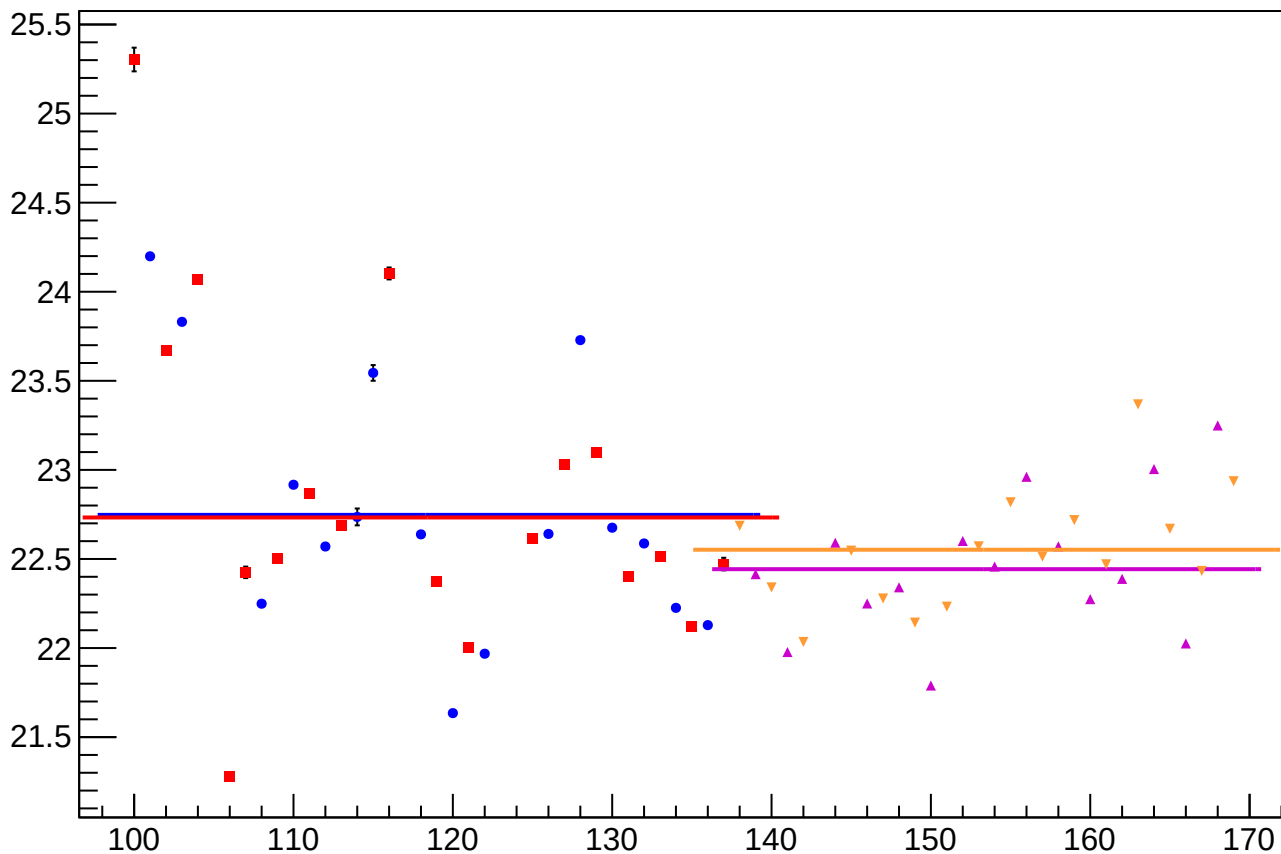
Right: 8.306 ± 5.952 $\chi^2/\text{NDF}: 36.0/33$

In: 5.189 ± 5.089 $\chi^2/\text{NDF}: 33.9/30$

Out: 19.418 ± 5.061 $\chi^2/\text{NDF}: 33.3/33$

All: 12.344 ± 3.588 $\chi^2/\text{NDF}: 71.1/64$

asym_bcm_dg_us_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 22.747 $\pm$ 0.006 χ^2 /NDF: 14622.8/15

Left Out: 22.552 $\pm$ 0.004 χ^2 /NDF: 4792.4/15

Right Out: 22.733 $\pm$ 0.006 χ^2 /NDF: 14389.6/17

Left In: 22.443 $\pm$ 0.005 χ^2 /NDF: 6958.4/14

Left: 22.498 $\pm$ 0.003 χ^2 /NDF: 12045.1/30

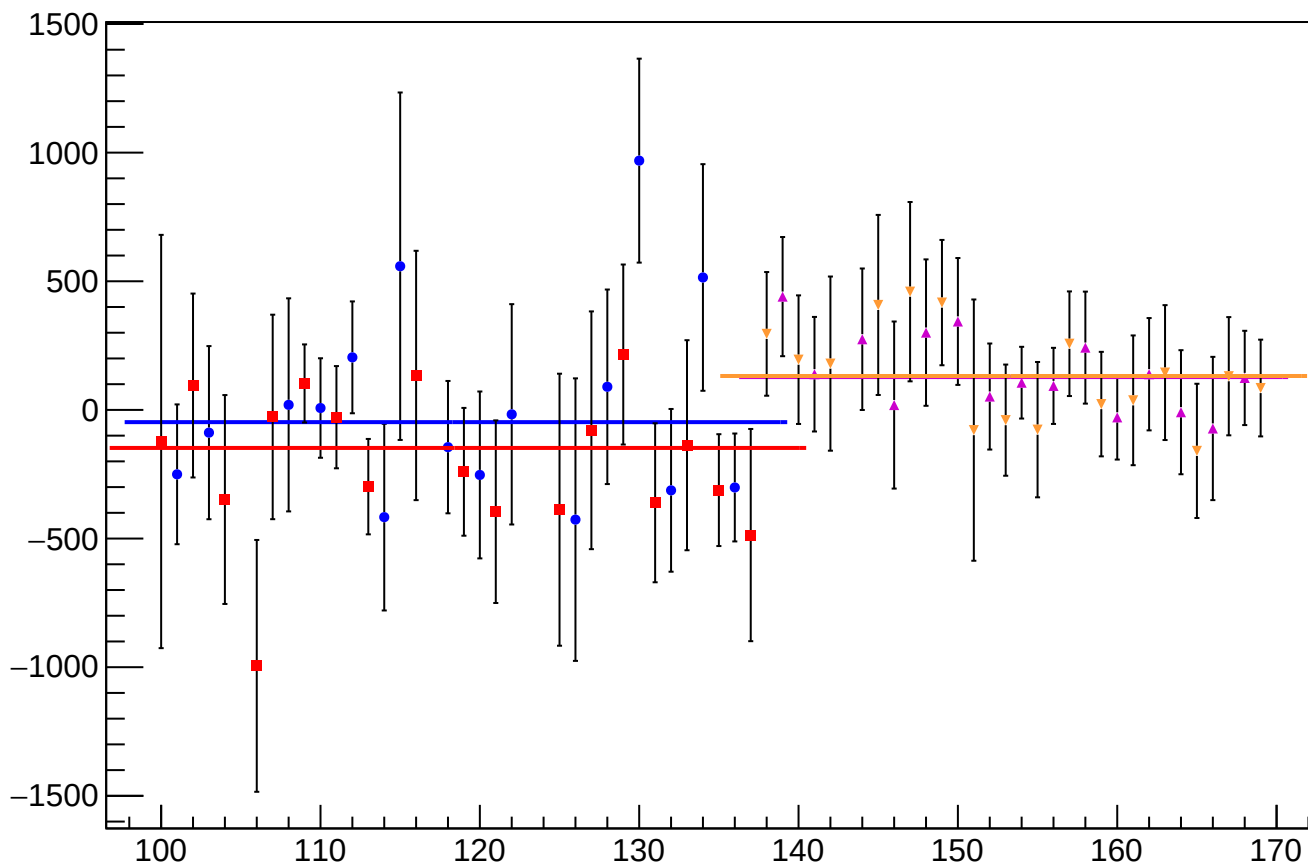
Right: 22.740 $\pm$ 0.004 χ^2 /NDF: 29015.4/33

In: 22.553 $\pm$ 0.004 χ^2 /NDF: 23237.9/30

Out: 22.618 $\pm$ 0.004 χ^2 /NDF: 19775.1/33

All: 22.586 $\pm$ 0.003 χ^2 /NDF: 43175.5/64

asym_bcm_dg_ds_an_ds_avg_mean vs Slug, Sign Corrected



Right In: -47.523+/-76.571 χ^2/NDF : 15.4/15

Left Out: 131.829+/-62.537 χ^2/NDF : 7.0/15

Right Out: -147.812+/-68.660 χ^2/NDF : 11.5/17

Left In: 127.618+/-53.438 χ^2/NDF : 5.6/14

Left: 129.395+/-40.626 χ^2/NDF : 12.6/30

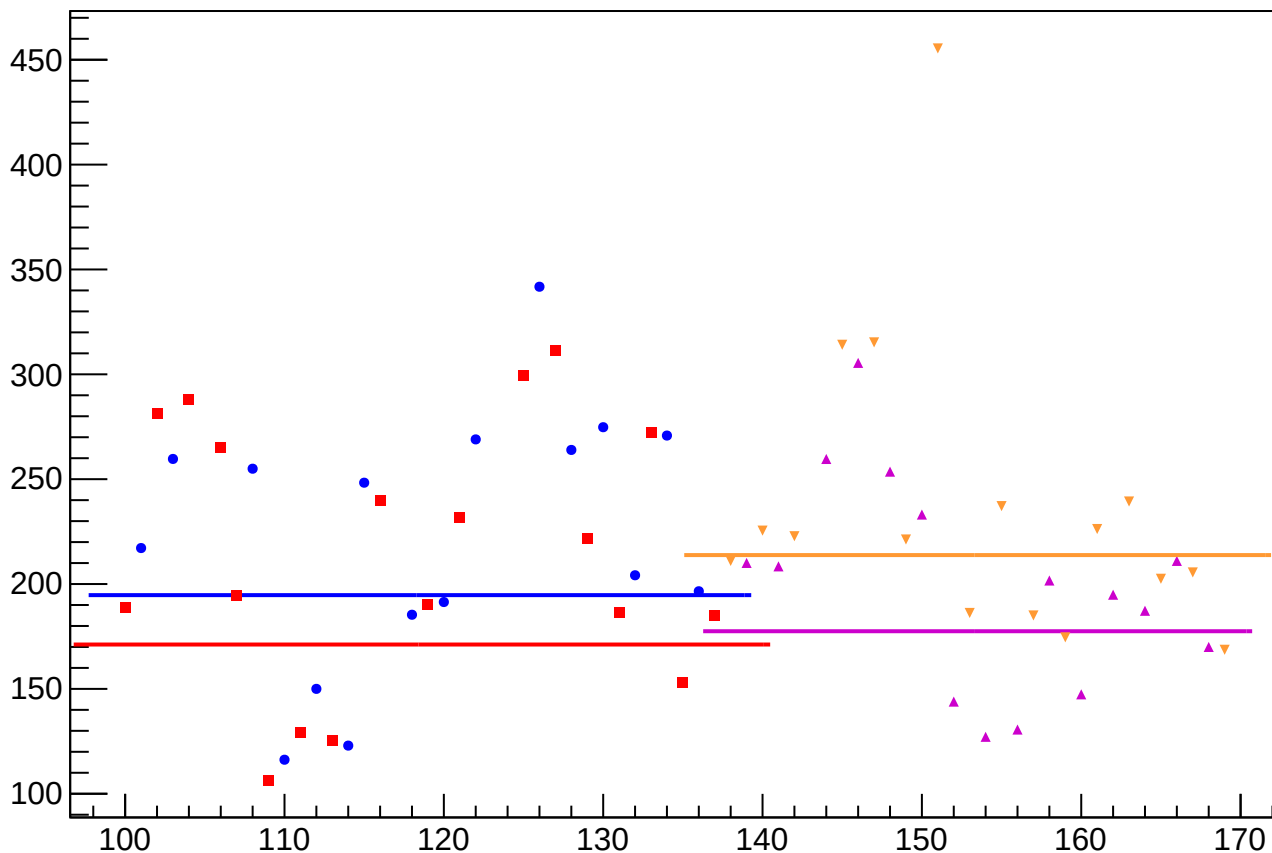
Right: -103.114+/-51.119 χ^2/NDF : 27.9/33

In: 70.255+/-43.822 χ^2/NDF : 24.5/30

Out: 5.031+/-46.234 χ^2/NDF : 27.6/33

All: 39.388+/-31.805 χ^2/NDF : 53.1/64

asym_bcm_dg_ds_an_ds_avg_rms vs Slug, Sign Corrected



Right In: 194.708+/-0.054 χ^2/NDF : 1052288.9/15

Left Out: 213.805+/-0.044 χ^2/NDF :1103010.3/15

Right Out: 171.156+/-0.049 χ^2/NDF : 1611935.6/17

Left In: 177.493+/-0.038 χ^2/NDF :1467233.6/14

Left: 192.817+/-0.029 χ^2/NDF : 2959969.0/30

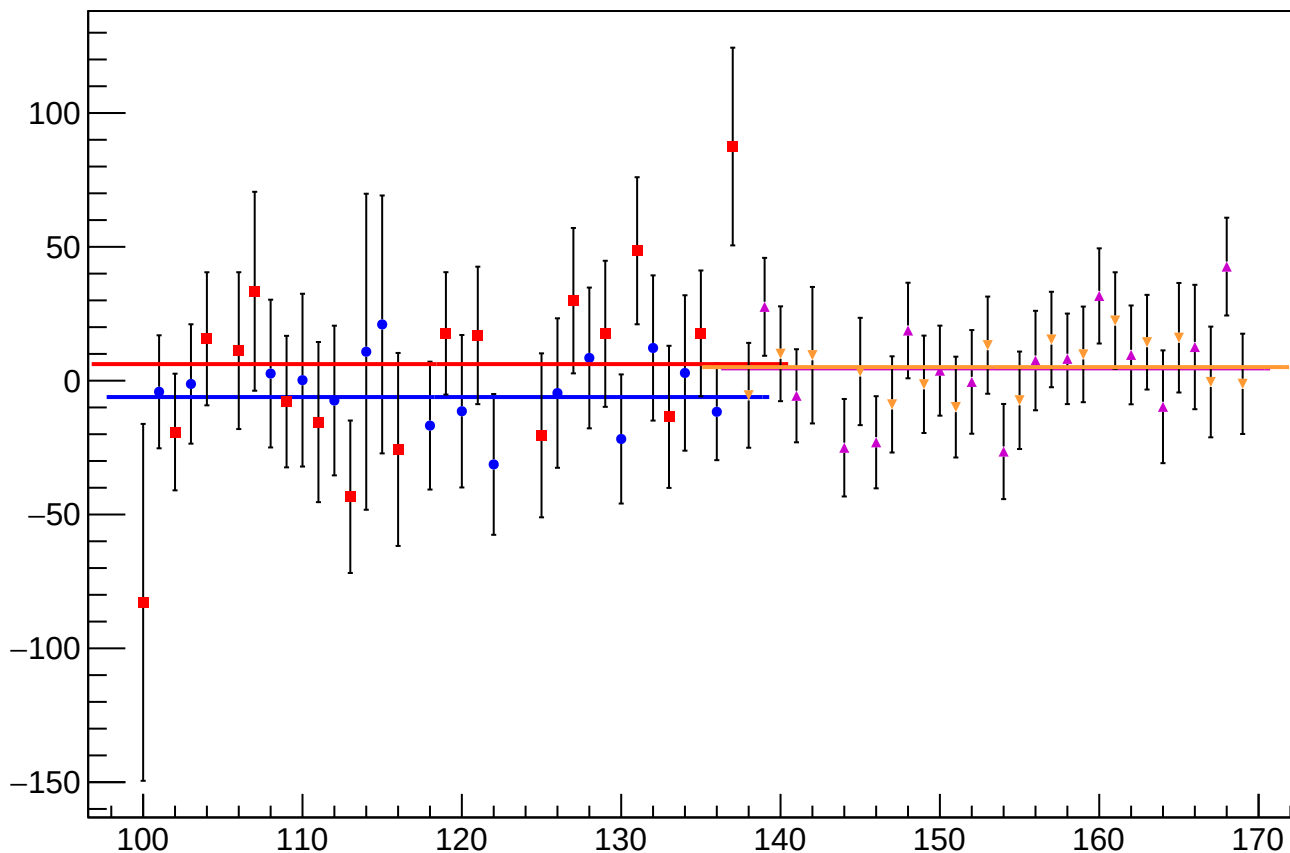
Right: 181.653+/-0.036 χ^2/NDF : 2769105.7/33

In: 183.131+/-0.031 χ^2/NDF :2587503.6/30

Out: 194.466+/-0.033 χ^2/NDF :3136714.3/33

All: 188.496+/-0.022 χ^2/NDF : 5787544.4/64

asym_bcm_dg_ds_an_ds_dd_mean vs Slug, Sign Corrected



Right In: -6.119 $\pm$ 6.592 χ^2 /NDF: 3.1/15

Left Out: 5.068 $\pm$ 4.718 χ^2 /NDF: 4.5/15

Right Out: 6.195 $\pm$ 6.580 χ^2 /NDF: 18.6/17

Left In: 4.590 $\pm$ 4.725 χ^2 /NDF: 18.3/14

Left: 4.830 $\pm$ 3.339 χ^2 /NDF: 22.8/30

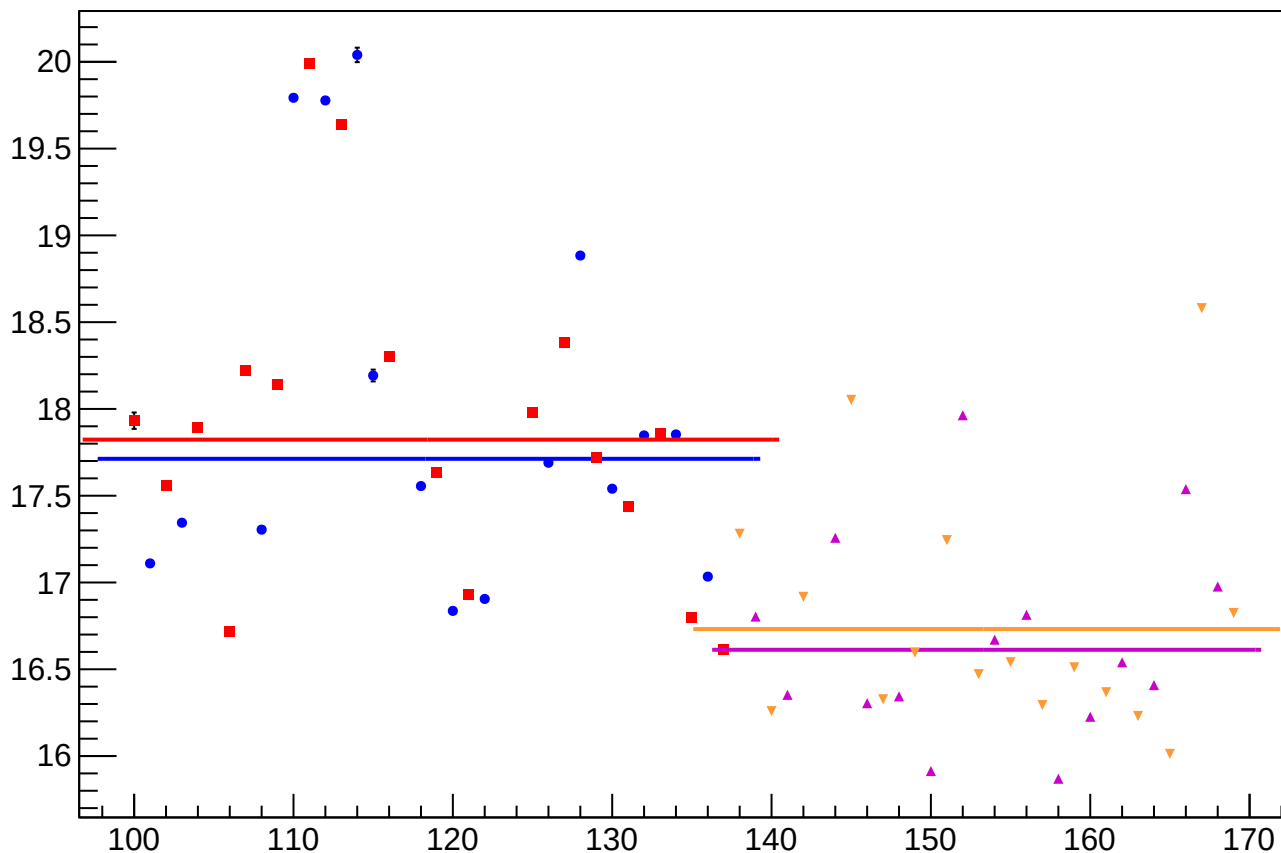
Right: 0.049 $\pm$ 4.657 χ^2 /NDF: 23.5/33

In: 0.955 $\pm$ 3.841 χ^2 /NDF: 23.1/30

Out: 5.451 $\pm$ 3.834 χ^2 /NDF: 23.2/33

All: 3.207 $\pm$ 2.713 χ^2 /NDF: 47.0/64

asym_bcm_dg_ds_an_ds_dd_rms vs Slug, Sign Corrected



Right In: 17.713 $\pm$ 0.005 χ^2 /NDF: 35983.5/15

Left Out: 16.732 $\pm$ 0.003 χ^2 /NDF: 37442.9/15

Right Out: 17.823 $\pm$ 0.005 χ^2 /NDF: 32502.9/17

Left In: 16.612 $\pm$ 0.003 χ^2 /NDF: 26704.0/14

Left: 16.672 $\pm$ 0.002 χ^2 /NDF: 64785.0/30

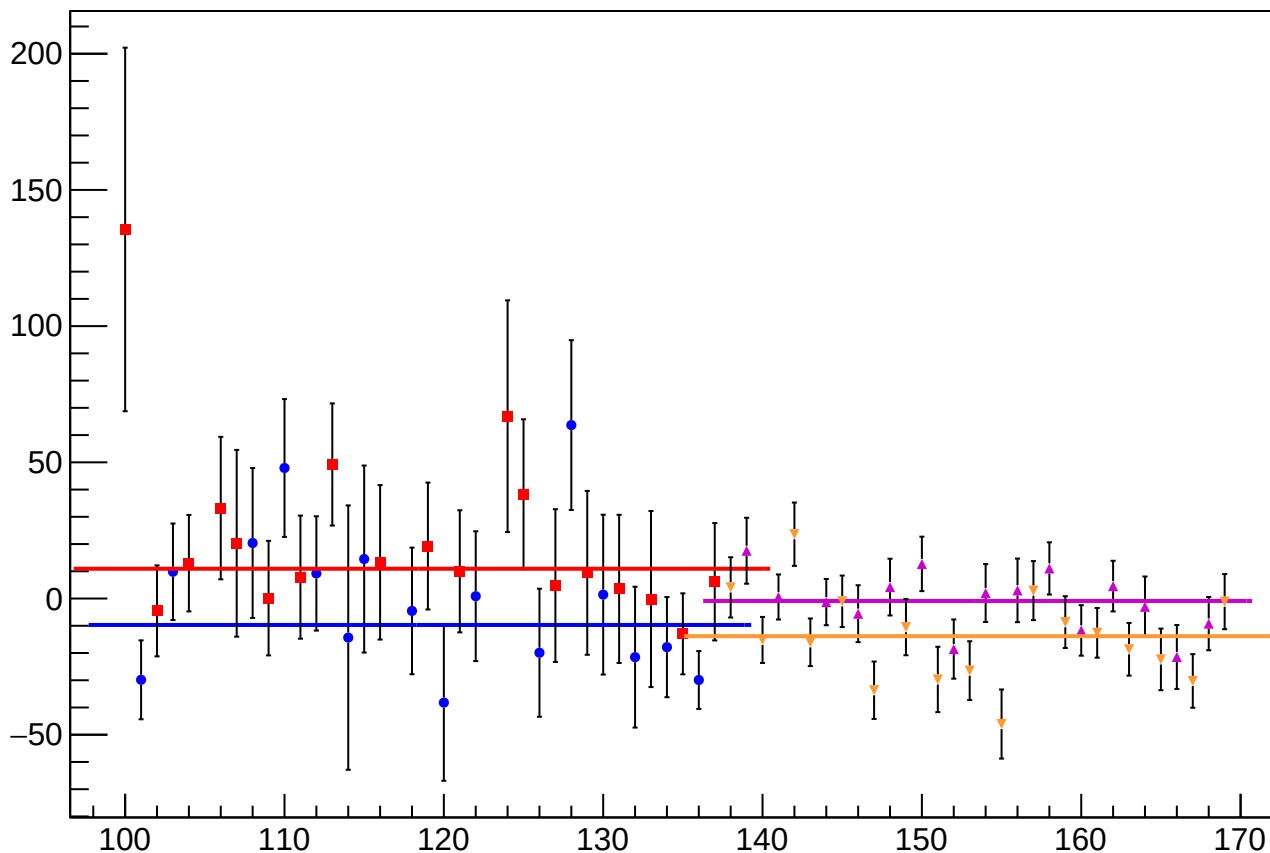
Right: 17.768 $\pm$ 0.003 χ^2 /NDF: 68768.1/33

In: 16.986 $\pm$ 0.003 χ^2 /NDF: 99496.7/30

Out: 17.102 $\pm$ 0.003 χ^2 /NDF: 106299.8/33

All: 17.044 $\pm$ 0.002 χ^2 /NDF: 206716.8/64

diff_bpm_4aX_4acX_avg_mean vs Slug, Sign Corrected



Right In: -9.702 ± 5.231 χ^2/NDF : 22.0/15

Left Out: -13.817 ± 2.468 χ^2/NDF : 36.0/16

Right Out: 10.938 ± 5.436 χ^2/NDF : 14.1/18

Left In: -0.892 ± 2.597 χ^2/NDF : 14.6/14

Left: -7.682 ± 1.789 χ^2/NDF : 63.6/31

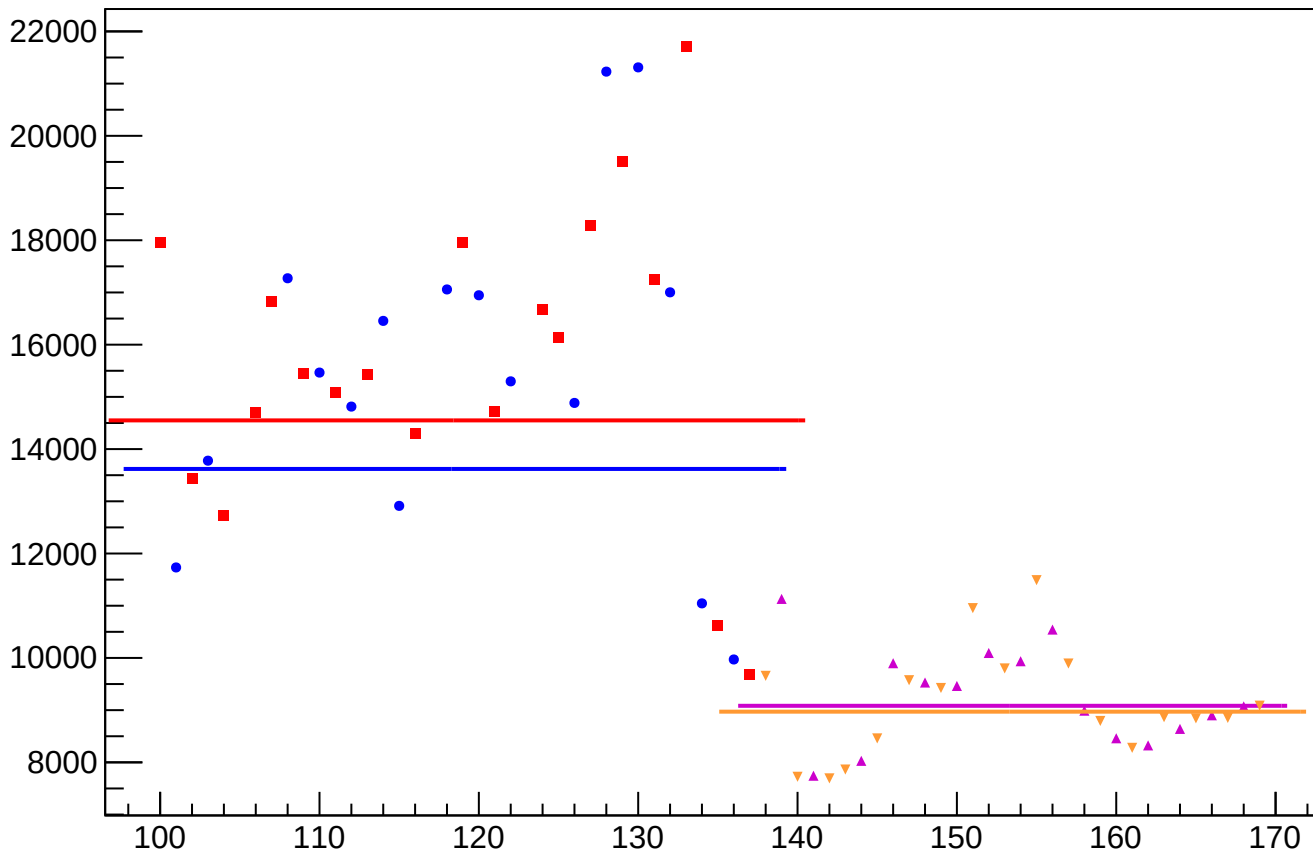
Right: 0.222 ± 3.769 χ^2/NDF : 43.6/34

In: -2.633 ± 2.326 χ^2/NDF : 38.8/30

Out: -9.586 ± 2.247 χ^2/NDF : 67.3/35

All: -6.229 ± 1.616 χ^2/NDF : 110.8/66

diff_bpm_4aX_4acX_avg_rms vs Slug, Sign Corrected



Right In: 13619.845 $\pm$ 3.699 χ^2 /NDF: 746985.9/15

Left Out: 8970.931 $\pm$ 1.745 χ^2 /NDF: 296706.1/16

Right Out: 14549.658 $\pm$ 3.844 χ^2 /NDF: 555902.2/18

Left In: 9083.301 $\pm$ 1.836 χ^2 /NDF: 246907.8/14

Left: 9024.268 $\pm$ 1.265 χ^2 /NDF: 545581.8/31

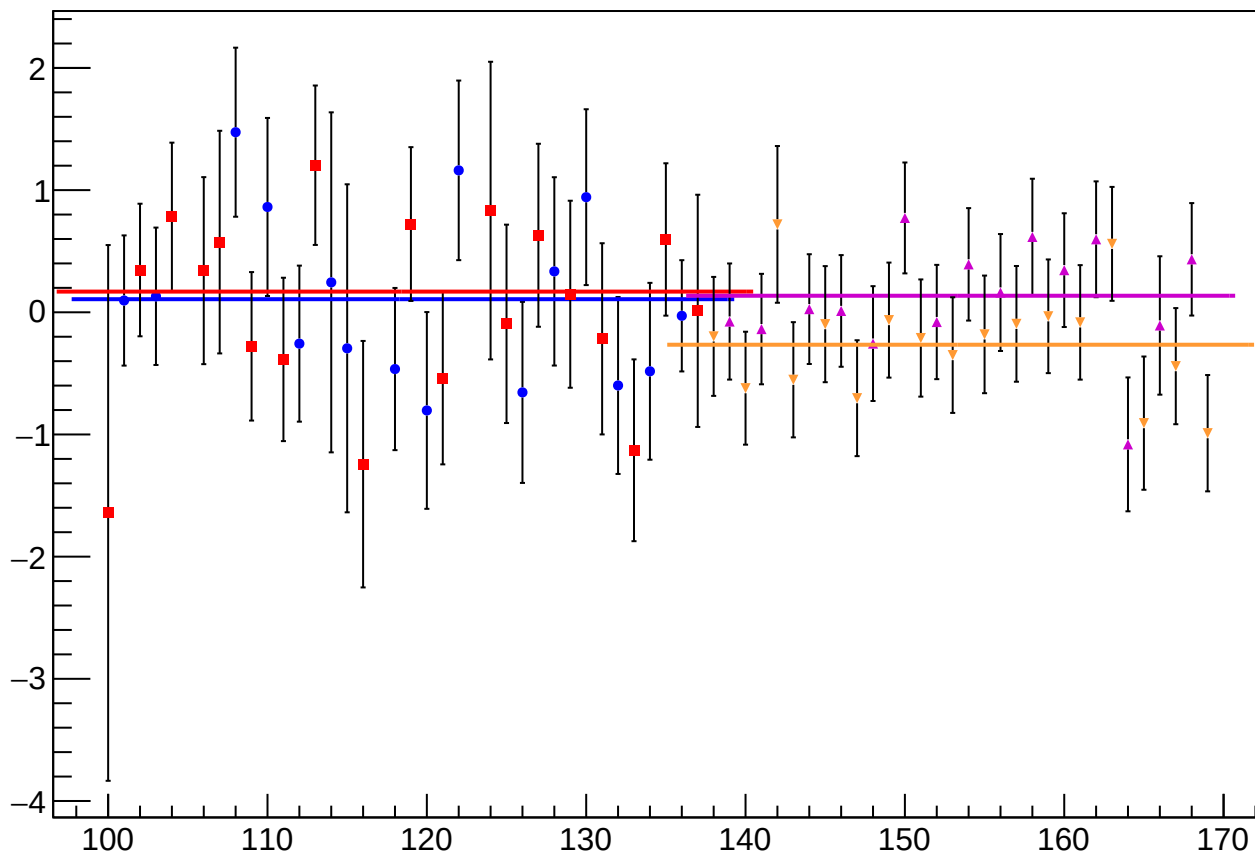
Right: 14066.907 $\pm$ 2.665 χ^2 /NDF: 1333265.9/34

In: 9980.010 $\pm$ 1.645 χ^2 /NDF: 2200600.0/30

Out: 9924.358 $\pm$ 1.589 χ^2 /NDF: 2598892.1/35

All: 9951.229 $\pm$ 1.143 χ^2 /NDF: 4800084.3/66

diff_bpm_4aX_4acX_dd_mean vs Slug, Sign Corrected



Right In: 0.107 $\pm$ 0.172 χ^2 /NDF: 13.7/15

Left Out: -0.265 $\pm$ 0.117 χ^2 /NDF:12.1/16

Right Out: 0.169 $\pm$ 0.169 χ^2 /NDF: 14.1/18

Left In: 0.135 $\pm$ 0.122 χ^2 /NDF:11.6/14

Left: -0.074 $\pm$ 0.085 χ^2 /NDF: 29.3/31

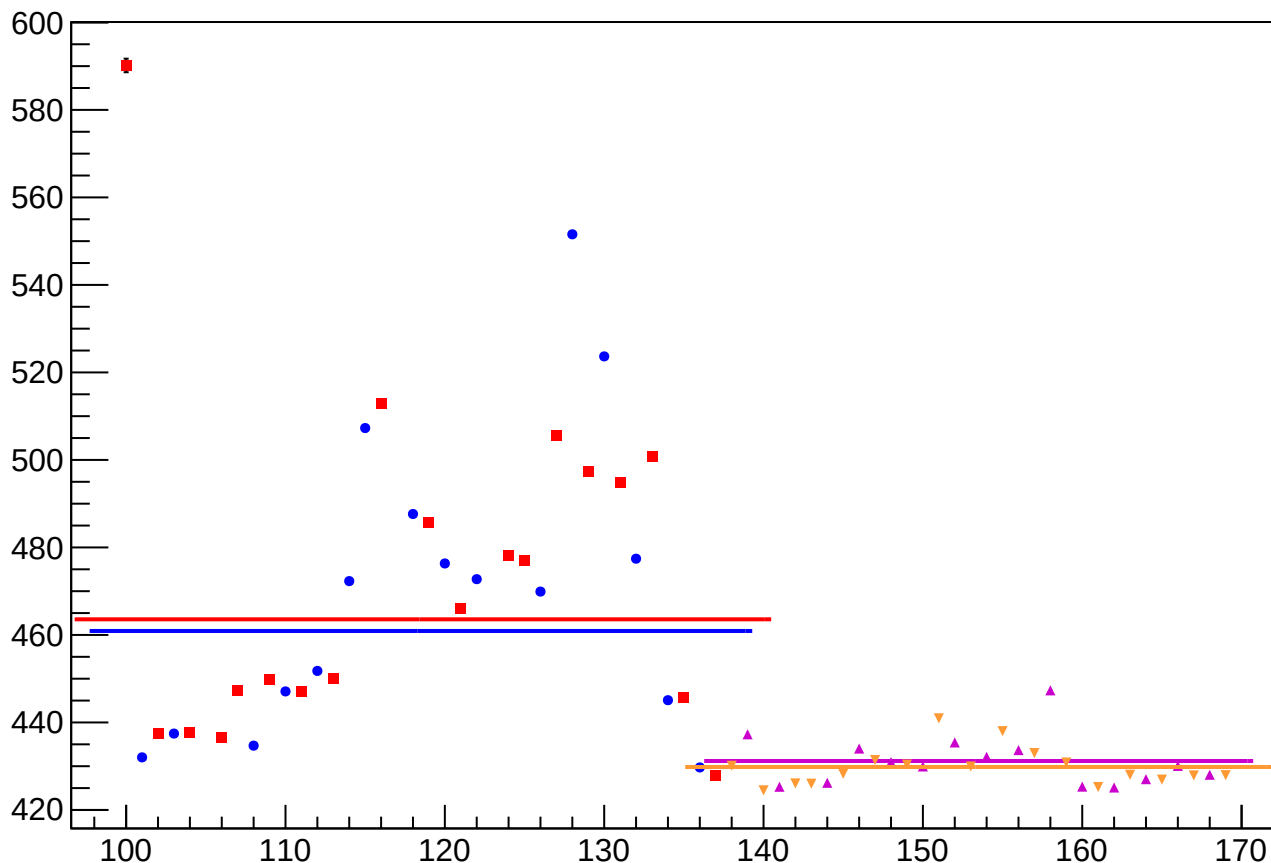
Right: 0.139 $\pm$ 0.121 χ^2 /NDF: 27.8/34

In: 0.126 $\pm$ 0.100 χ^2 /NDF:25.3/30

Out: -0.125 $\pm$ 0.096 χ^2 /NDF:30.6/35

All: -0.004 $\pm$ 0.069 χ^2 /NDF: 59.2/66

diff_bpm_4aX_4acX_dd_rms vs Slug, Sign Corrected



Right In: 460.906 $\pm$ 0.121 χ^2/NDF : 74930.1/15

Left Out: 429.820 $\pm$ 0.083 χ^2/NDF : 2607.3/16

Right Out: 463.573 $\pm$ 0.120 χ^2/NDF : 52175.6/18

Left In: 431.192 $\pm$ 0.087 χ^2/NDF : 4392.1/14

Left: 430.476 $\pm$ 0.060 χ^2/NDF : 7130.6/31

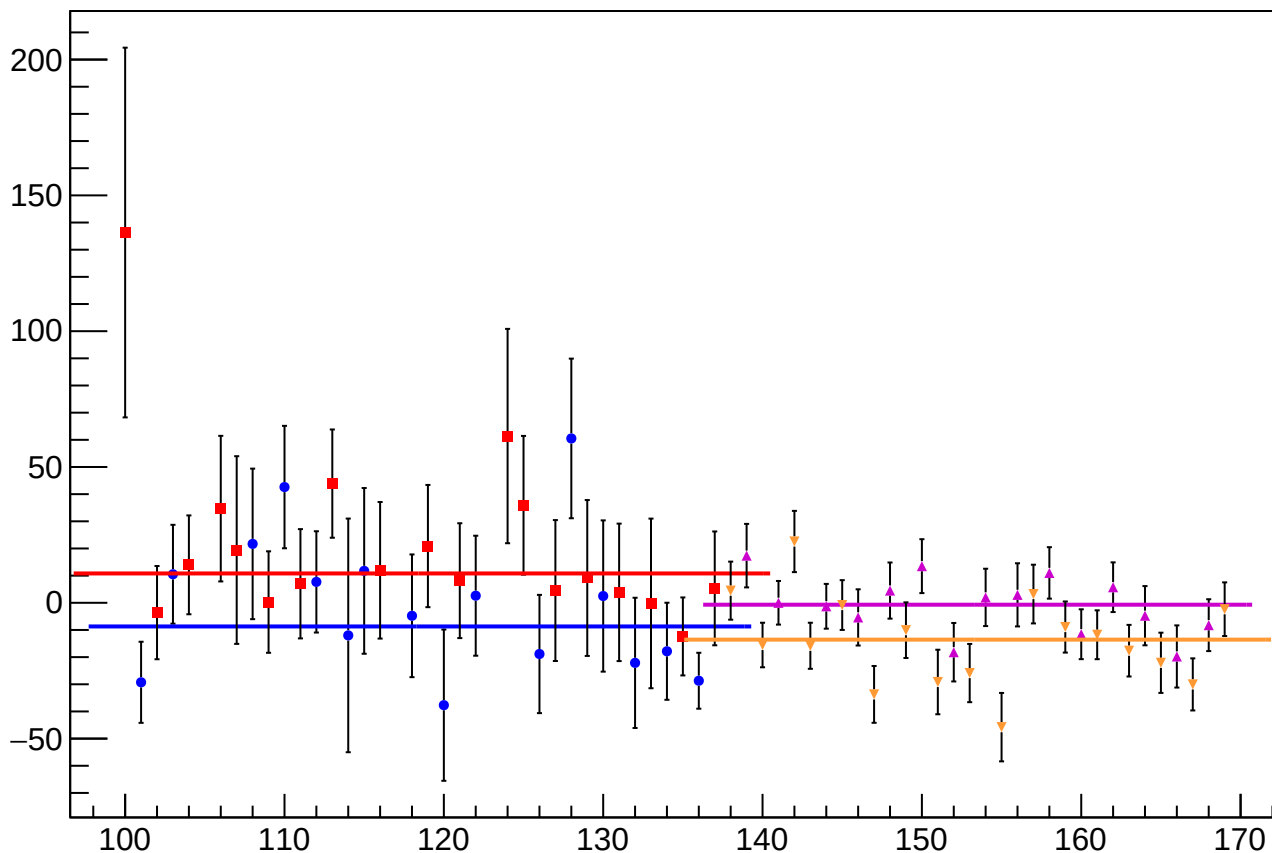
Right: 462.257 $\pm$ 0.085 χ^2/NDF : 127350.1/34

In: 441.204 $\pm$ 0.070 χ^2/NDF : 119035.9/30

Out: 440.746 $\pm$ 0.068 χ^2/NDF : 108460.3/35

All: 440.967 $\pm$ 0.049 χ^2/NDF : 227518.0/66

diff_bpm_4aX_4eX_avg_mean vs Slug, Sign Corrected



Right In: -8.707 ± 5.036 $\chi^2/\text{NDF}: 22.3/15$

Left Out: -13.558 ± 2.421 $\chi^2/\text{NDF}: 36.3/16$

Right Out: 10.807 ± 5.192 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.702 ± 2.553 $\chi^2/\text{NDF}: 14.7/14$

Left: -7.472 ± 1.757 $\chi^2/\text{NDF}: 64.3/31$

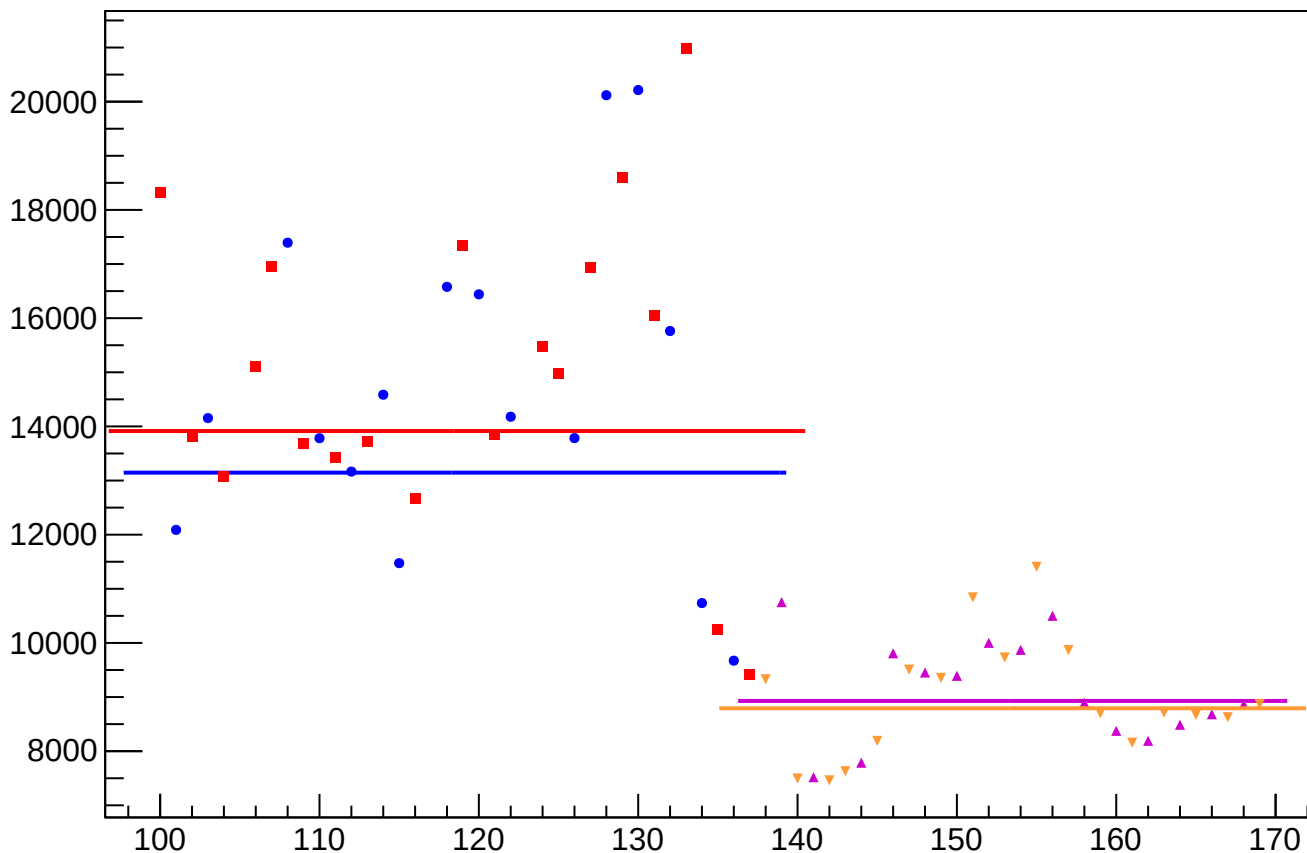
Right: 0.753 ± 3.615 $\chi^2/\text{NDF}: 43.4/34$

In: -2.339 ± 2.277 $\chi^2/\text{NDF}: 38.9/30$

Out: -9.206 ± 2.194 $\chi^2/\text{NDF}: 68.3/35$

All: -5.900 ± 1.580 $\chi^2/\text{NDF}: 111.9/66$

diff_bpm_4aX_4eX_avg_rms vs Slug, Sign Corrected



Right In: 13145.853 $\pm$ 3.561 χ^2 /NDF: 682620.1/15

Left Out: 8793.017 $\pm$ 1.712 χ^2 /NDF: 336488.5/16

Right Out: 13914.770 $\pm$ 3.671 χ^2 /NDF: 511000.7/18

Left In: 8928.176 $\pm$ 1.806 χ^2 /NDF: 269619.5/14

Left: 8857.007 $\pm$ 1.242 χ^2 /NDF: 609058.7/31

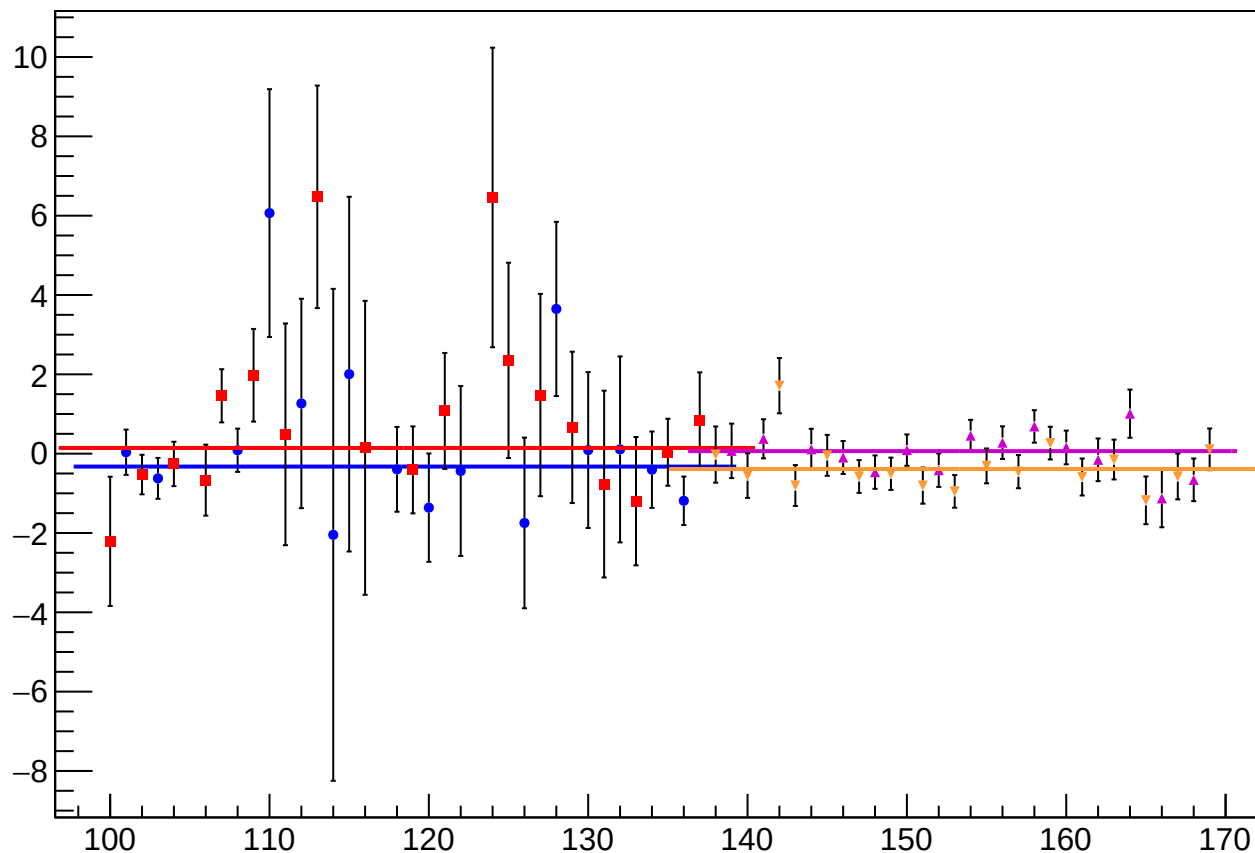
Right: 13518.600 $\pm$ 2.556 χ^2 /NDF: 1216225.3/34

In: 9790.765 $\pm$ 1.610 χ^2 /NDF: 2068278.7/30

Out: 9707.988 $\pm$ 1.552 χ^2 /NDF: 2446326.0/35

All: 9747.839 $\pm$ 1.117 χ^2 /NDF: 4515974.9/66

diff_bpm_4aX_4eX_dd_mean vs Slug, Sign Corrected



Right In: -0.326 $\pm$ 0.244 χ^2/NDF : 12.6/15

Left Out: -0.387 $\pm$ 0.118 χ^2/NDF : 19.3/16

Right Out: 0.144 $\pm$ 0.244 χ^2/NDF : 22.5/18

Left In: 0.064 $\pm$ 0.121 χ^2/NDF : 14.1/14

Left: -0.167 $\pm$ 0.084 χ^2/NDF : 40.5/31

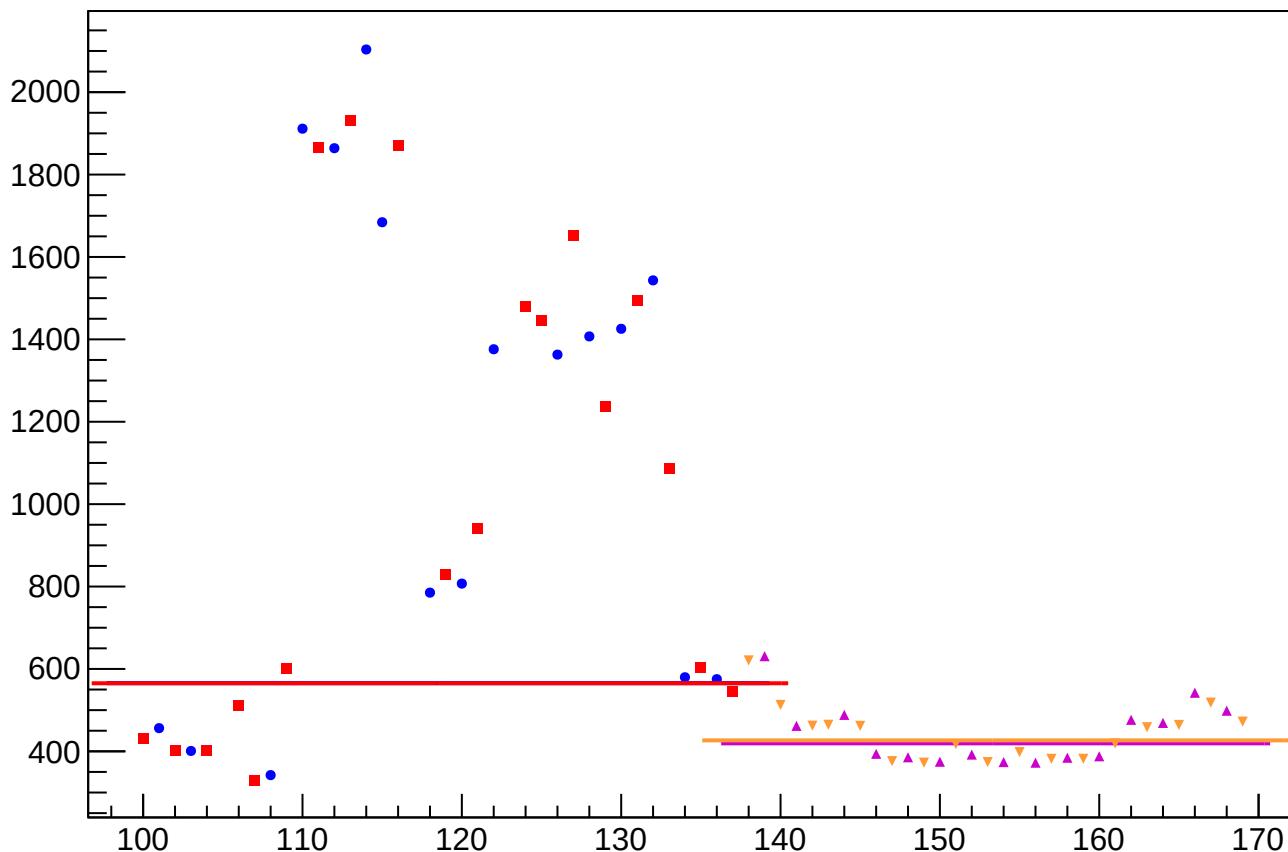
Right: -0.091 $\pm$ 0.173 χ^2/NDF : 36.9/34

In: -0.013 $\pm$ 0.108 χ^2/NDF : 28.7/30

Out: -0.287 $\pm$ 0.106 χ^2/NDF : 45.5/35

All: -0.152 $\pm$ 0.076 χ^2/NDF : 77.5/66

diff_bpm_4aX_4eX_dd_rms vs Slug, Sign Corrected



Right In: 565.531 $\pm$ 0.173 χ^2 /NDF: 3450533.8/15

Left Out: 426.599 $\pm$ 0.083 χ^2 /NDF: 457423.3/16

Right Out: 565.223 $\pm$ 0.173 χ^2 /NDF: 3571620.7/18

Left In: 419.373 $\pm$ 0.085 χ^2 /NDF: 508394.6/14

Left: 423.074 $\pm$ 0.060 χ^2 /NDF: 969489.8/31

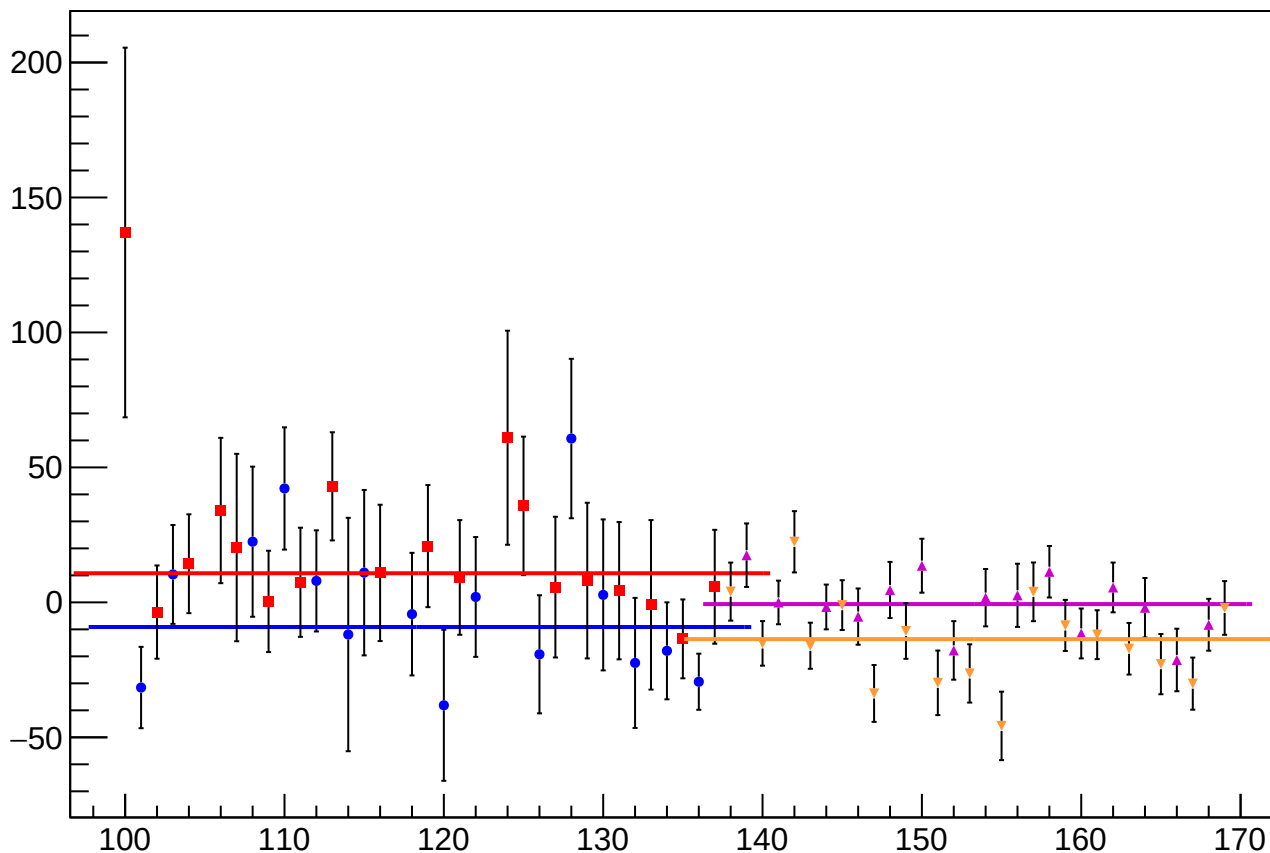
Right: 565.377 $\pm$ 0.122 χ^2 /NDF: 7022156.1/34

In: 448.081 $\pm$ 0.077 χ^2 /NDF: 4535004.8/30

Out: 452.735 $\pm$ 0.075 χ^2 /NDF: 4551302.8/35

All: 450.453 $\pm$ 0.054 χ^2 /NDF: 9088194.4/66

diff_bpm_4aX_4ecX_avg_mean vs Slug, Sign Corrected



Right In: -9.130 ± 5.069 χ^2/NDF : 22.7/15

Left Out: -13.624 ± 2.437 χ^2/NDF : 36.2/16

Right Out: 10.788 ± 5.227 χ^2/NDF : 13.7/18

Left In: -0.641 ± 2.572 χ^2/NDF : 14.8/14

Left: -7.481 ± 1.769 χ^2/NDF : 64.3/31

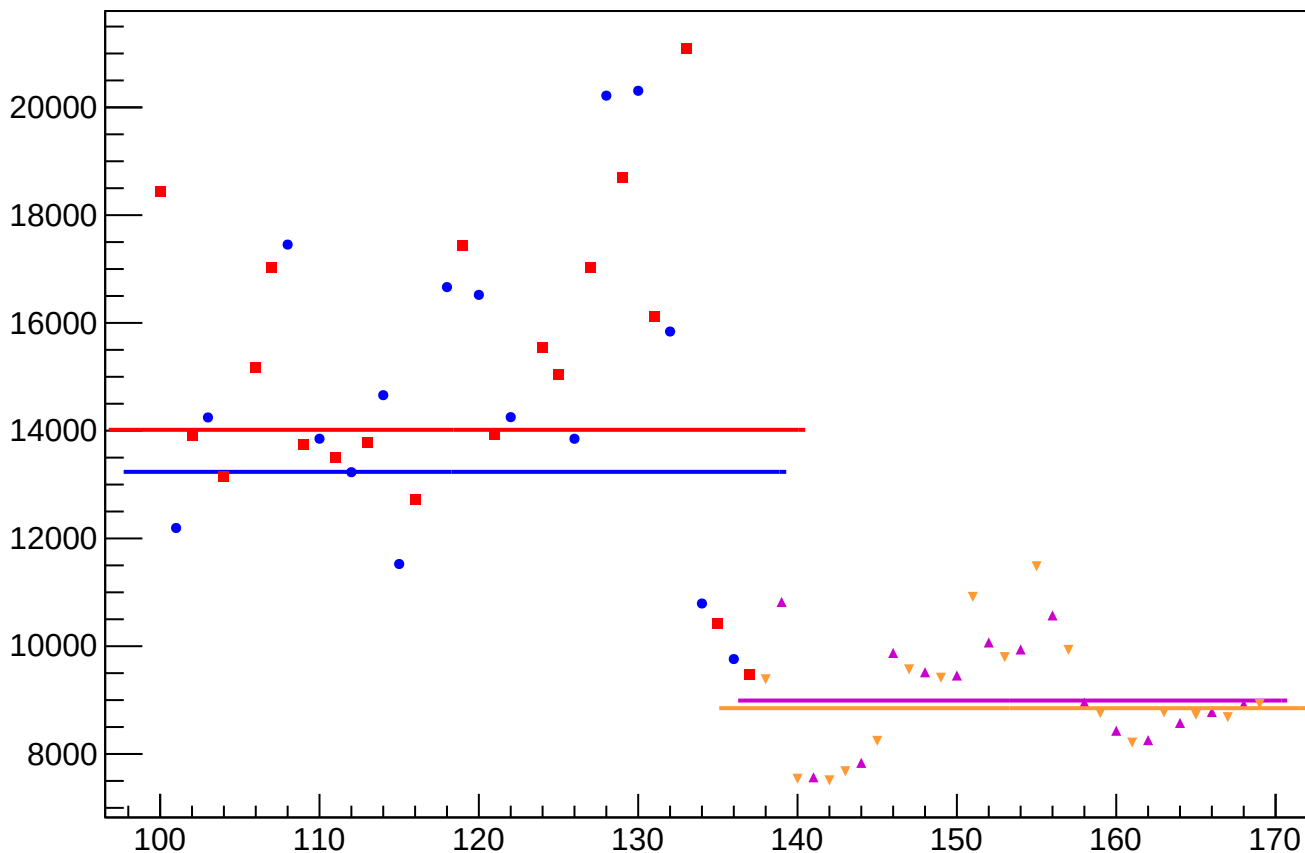
Right: 0.523 ± 3.639 χ^2/NDF : 43.9/34

In: -2.378 ± 2.293 χ^2/NDF : 39.7/30

Out: -9.266 ± 2.209 χ^2/NDF : 67.8/35

All: -5.952 ± 1.591 χ^2/NDF : 112.2/66

diff_bpm_4aX_4ecX_avg_rms vs Slug, Sign Corrected



Right In: 13235.828+/-3.585 χ^2/NDF : 673887.0/15

Left Out: 8850.060+/-1.723 χ^2/NDF : 337123.1/16

Right Out: 14016.035+/-3.696 χ^2/NDF : 498592.9/18

Left In: 8991.502+/-1.818 χ^2/NDF : 268969.3/14

Left: 8916.980+/-1.251 χ^2/NDF : 609280.1/31

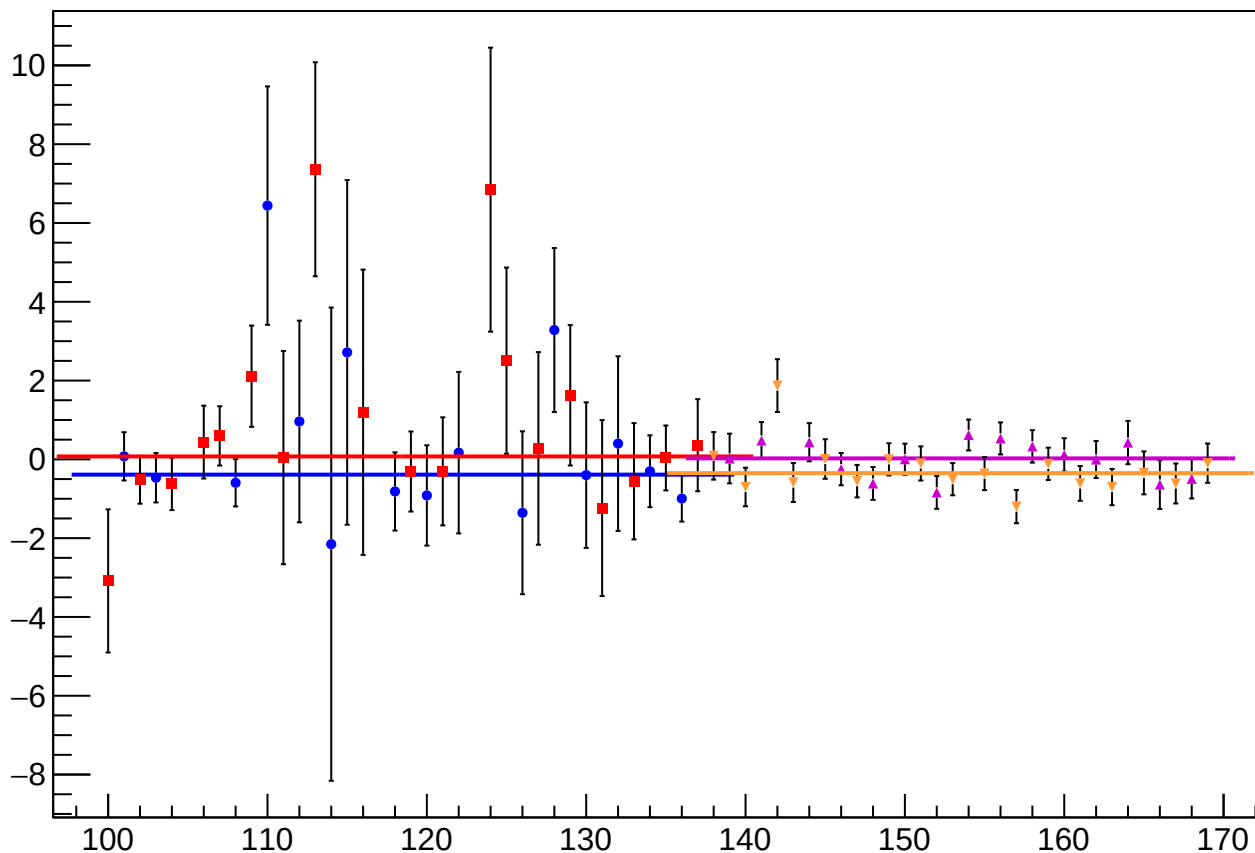
Right: 13613.950+/-2.573 χ^2/NDF : 1195440.4/34

In: 9860.193+/-1.622 χ^2/NDF : 2057936.0/30

Out: 9772.317+/-1.562 χ^2/NDF : 2440270.3/35

All: 9814.603+/-1.125 χ^2/NDF : 4499729.8/66

diff_bpm_4aX_4ecX_dd_mean vs Slug, Sign Corrected



Right In: -0.388 ± 0.256 χ^2/NDF : 11.7/15

Left Out: -0.349 ± 0.113 χ^2/NDF : 20.1/16

Right Out: 0.075 ± 0.265 χ^2/NDF : 21.7/18

Left In: 0.024 ± 0.116 χ^2/NDF : 16.0/14

Left: -0.169 ± 0.081 χ^2/NDF : 41.4/31

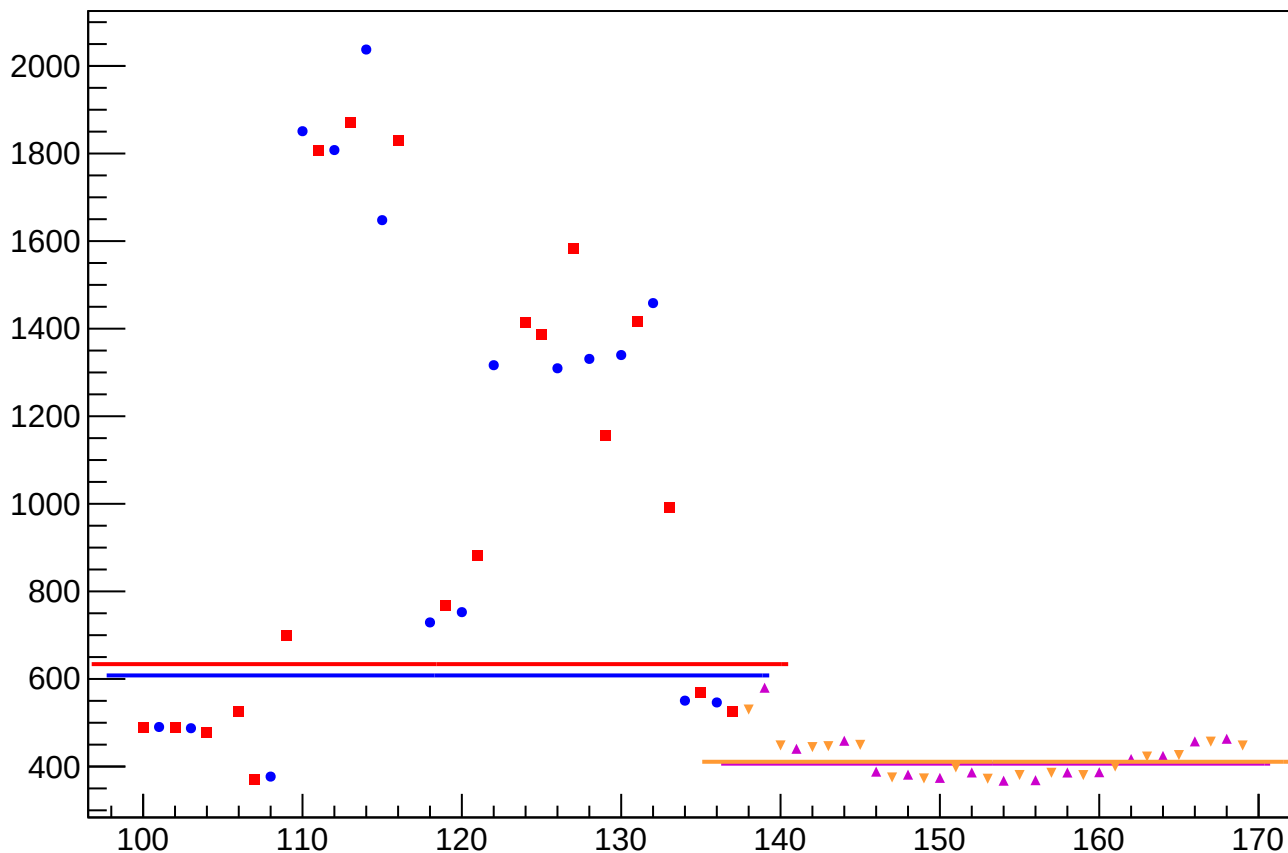
Right: -0.164 ± 0.184 χ^2/NDF : 34.9/34

In: -0.046 ± 0.106 χ^2/NDF : 29.8/30

Out: -0.284 ± 0.104 χ^2/NDF : 43.9/35

All: -0.168 ± 0.074 χ^2/NDF : 76.3/66

diff_bpm_4aX_4ecX_dd_rms vs Slug, Sign Corrected



Right In: 608.063+/-0.181 χ^2/NDF : 2852722.1/15

Left Out: 410.899+/-0.080 χ^2/NDF : 229348.1/16

Right Out: 633.883+/-0.187 χ^2/NDF : 2788449.1/18

Left In: 406.551+/-0.082 χ^2/NDF : 303192.2/14

Left: 408.796+/-0.057 χ^2/NDF : 533980.3/31

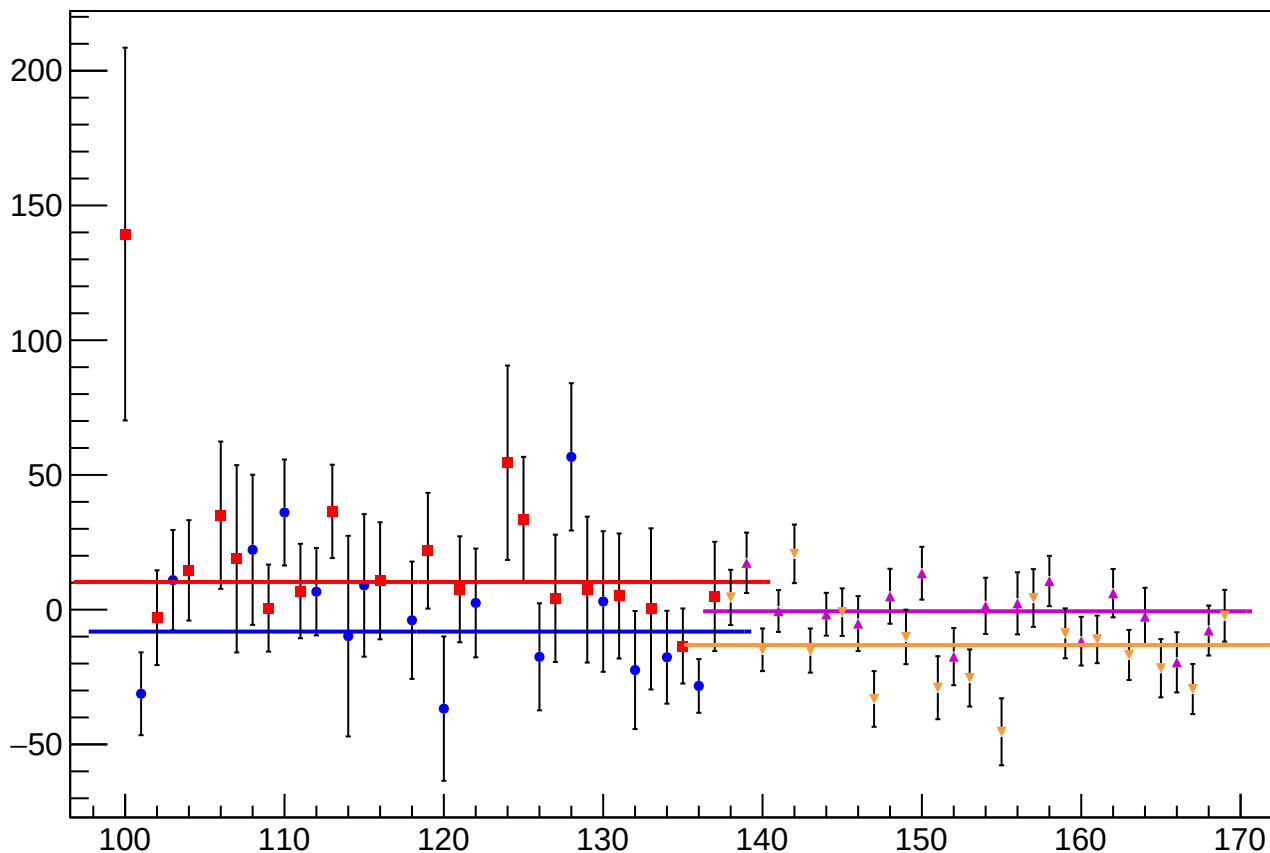
Right: 620.535+/-0.130 χ^2/NDF : 5651022.3/34

In: 441.151+/-0.075 χ^2/NDF : 4184760.2/30

Out: 445.149+/-0.073 χ^2/NDF : 4220711.3/35

All: 443.194+/-0.052 χ^2/NDF : 8406926.7/66

diff_bpm_4eX_4ecX_avg_mean vs Slug, Sign Corrected



Right In: -8.132 ± 4.779 χ^2/NDF : 23.1/15

Left Out: -13.106 ± 2.361 χ^2/NDF : 36.5/16

Right Out: 10.288 ± 4.873 χ^2/NDF : 13.7/18

Left In: -0.603 ± 2.498 χ^2/NDF : 14.8/14

Left: -7.207 ± 1.716 χ^2/NDF : 64.5/31

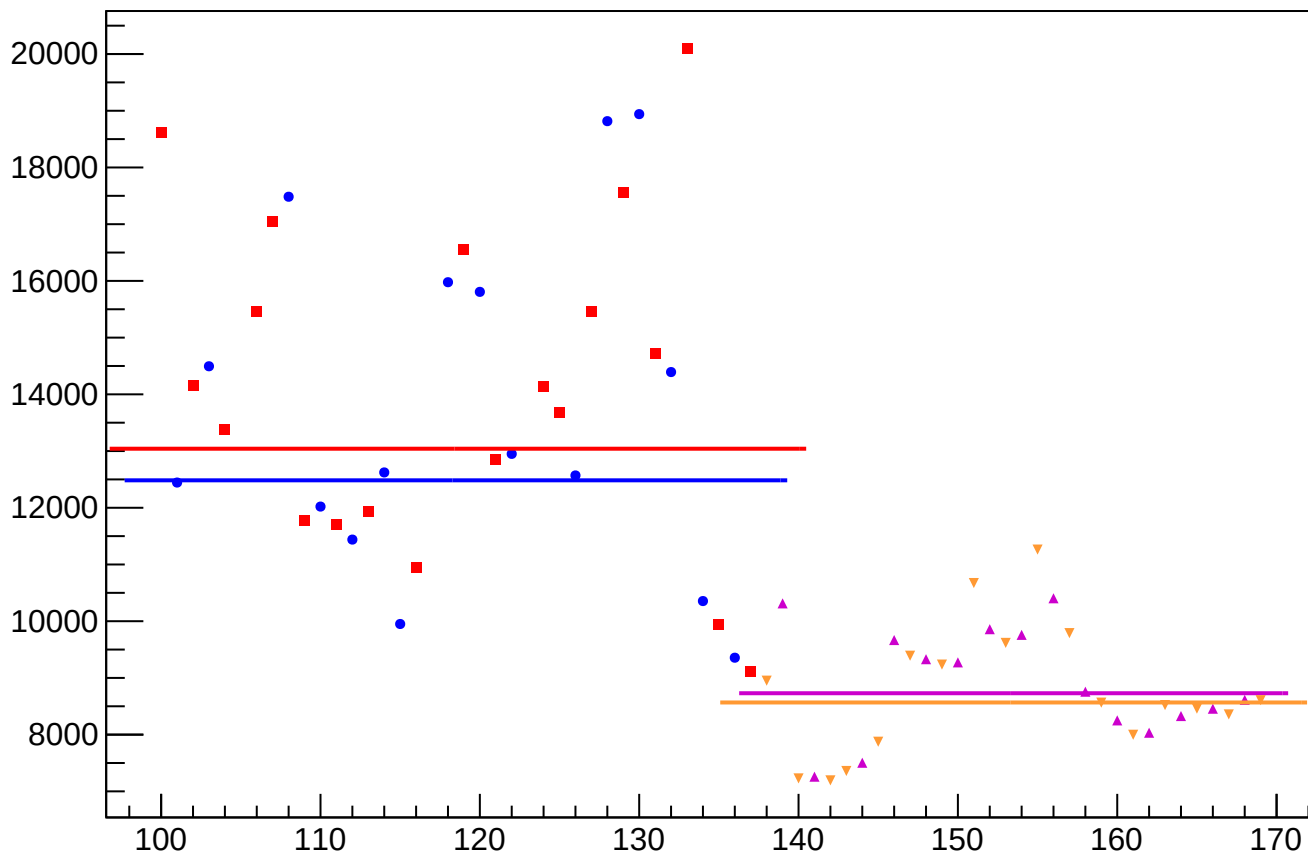
Right: 0.898 ± 3.412 χ^2/NDF : 44.1/34

In: -2.219 ± 2.214 χ^2/NDF : 39.9/30

Out: -8.658 ± 2.125 χ^2/NDF : 68.8/35

All: -5.571 ± 1.533 χ^2/NDF : 113.1/66

diff_bpm_4eX_4ecX_avg_rms vs Slug, Sign Corrected



Right In: 12483.955+/-3.379 χ^2/NDF : 671560.0/15

Left Out: 8567.000+/-1.670 χ^2/NDF : 383472.3/16

Right Out: 13041.241+/-3.446 χ^2/NDF : 544486.8/18

Left In: 8730.039+/-1.766 χ^2/NDF : 295983.0/14

Left: 8643.929+/-1.213 χ^2/NDF : 683954.8/31

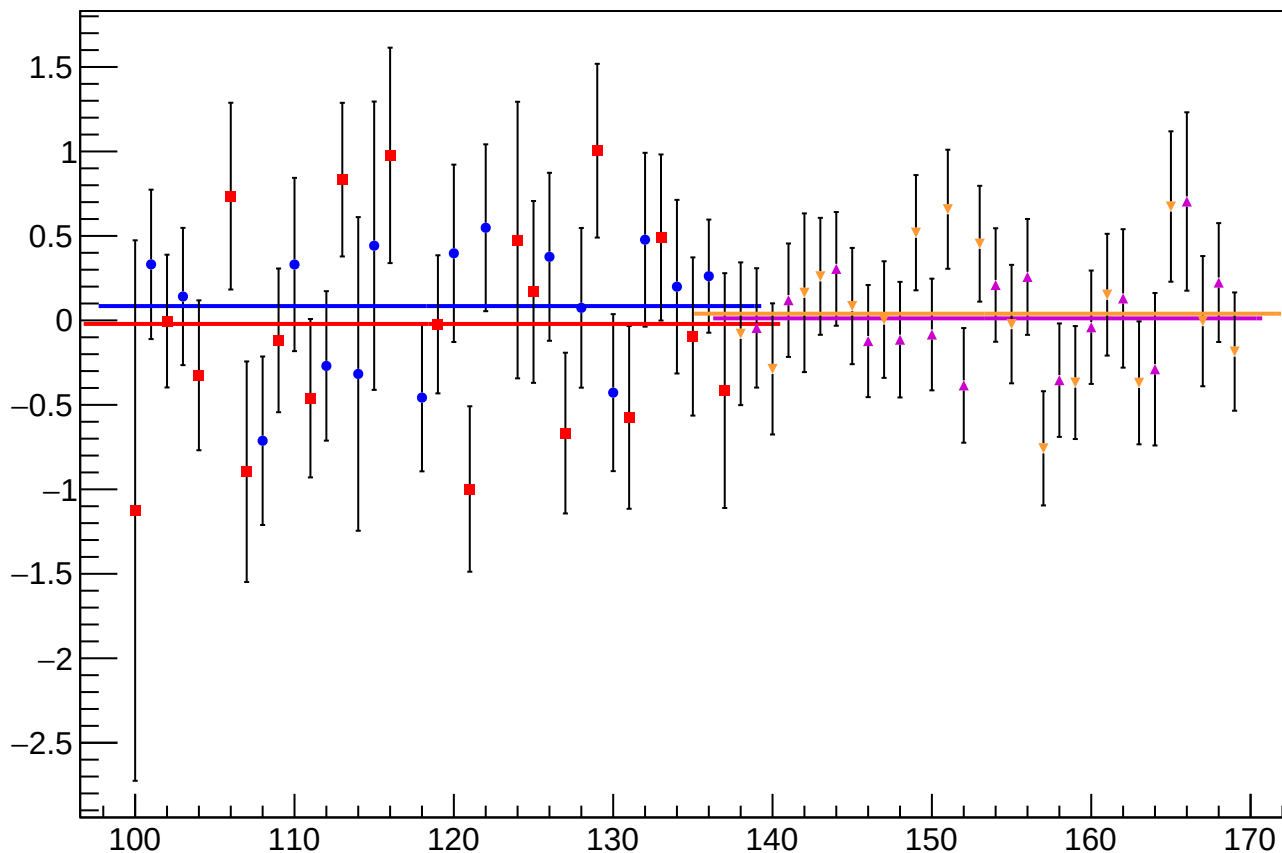
Right: 12757.154+/-2.413 χ^2/NDF : 1229378.8/34

In: 9535.621+/-1.565 χ^2/NDF : 1936715.7/30

Out: 9417.627+/-1.503 χ^2/NDF : 2293259.5/35

All: 9474.205+/-1.084 χ^2/NDF : 4232932.2/66

diff_bpm_4eX_4ecX_dd_mean vs Slug, Sign Corrected



Right In: 0.085 ± 0.120 $\chi^2/\text{NDF}: 9.4/15$

Left Out: 0.040 ± 0.088 $\chi^2/\text{NDF}: 18.7/16$

Right Out: -0.021 ± 0.117 $\chi^2/\text{NDF}: 24.3/18$

Left In: 0.012 ± 0.092 $\chi^2/\text{NDF}: 7.3/14$

Left: 0.026 ± 0.064 $\chi^2/\text{NDF}: 26.1/31$

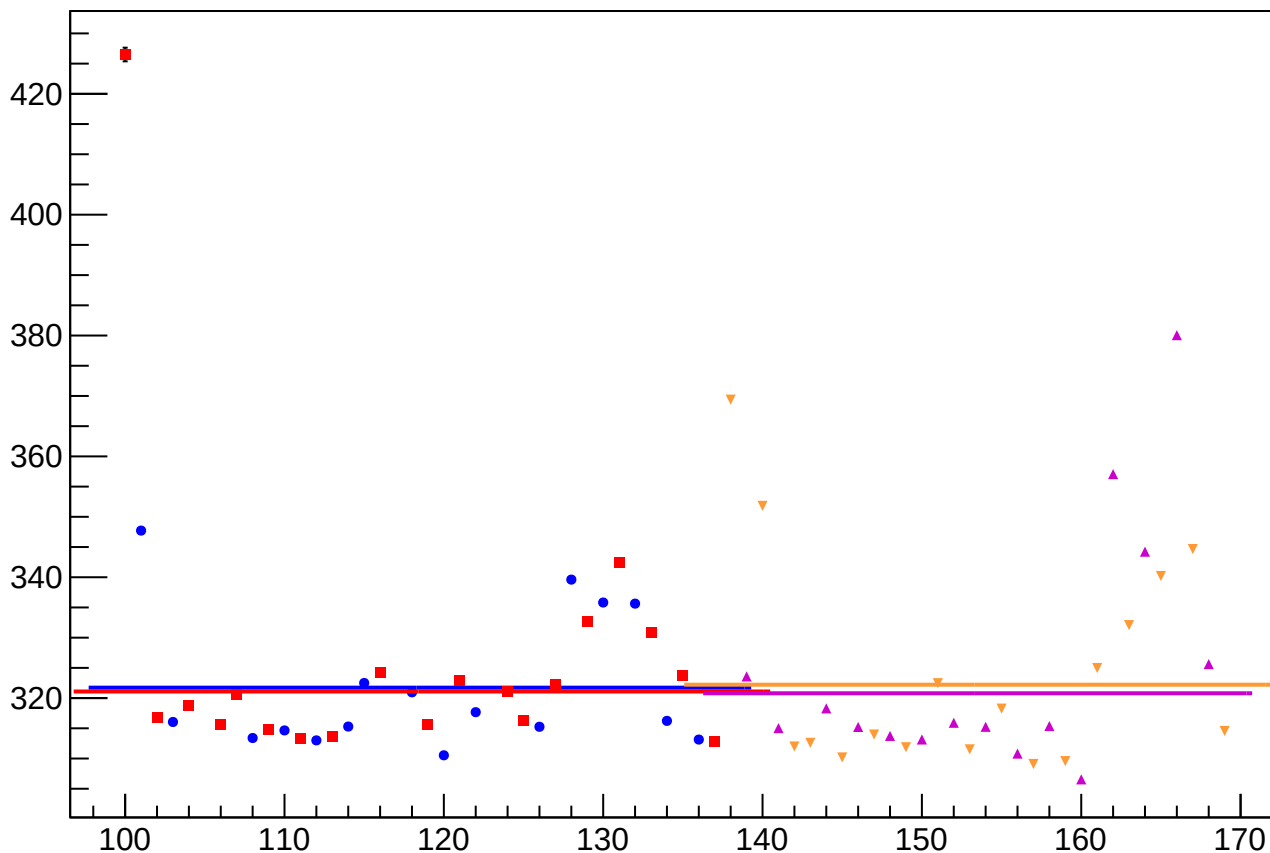
Right: 0.031 ± 0.084 $\chi^2/\text{NDF}: 34.1/34$

In: 0.039 ± 0.073 $\chi^2/\text{NDF}: 16.9/30$

Out: 0.018 ± 0.071 $\chi^2/\text{NDF}: 43.2/35$

All: 0.028 ± 0.051 $\chi^2/\text{NDF}: 60.1/66$

diff_bpm_4eX_4ecX_dd_rms vs Slug, Sign Corrected



Right In: 321.727 ± 0.085 $\chi^2/\text{NDF}: 18214.6/15$

Left Out: 322.219 ± 0.062 $\chi^2/\text{NDF}: 65161.5/16$

Right Out: 321.093 ± 0.083 $\chi^2/\text{NDF}: 16579.3/18$

Left In: 320.798 ± 0.065 $\chi^2/\text{NDF}: 56717.5/14$

Left: 321.535 ± 0.045 $\chi^2/\text{NDF}: 122128.0/31$

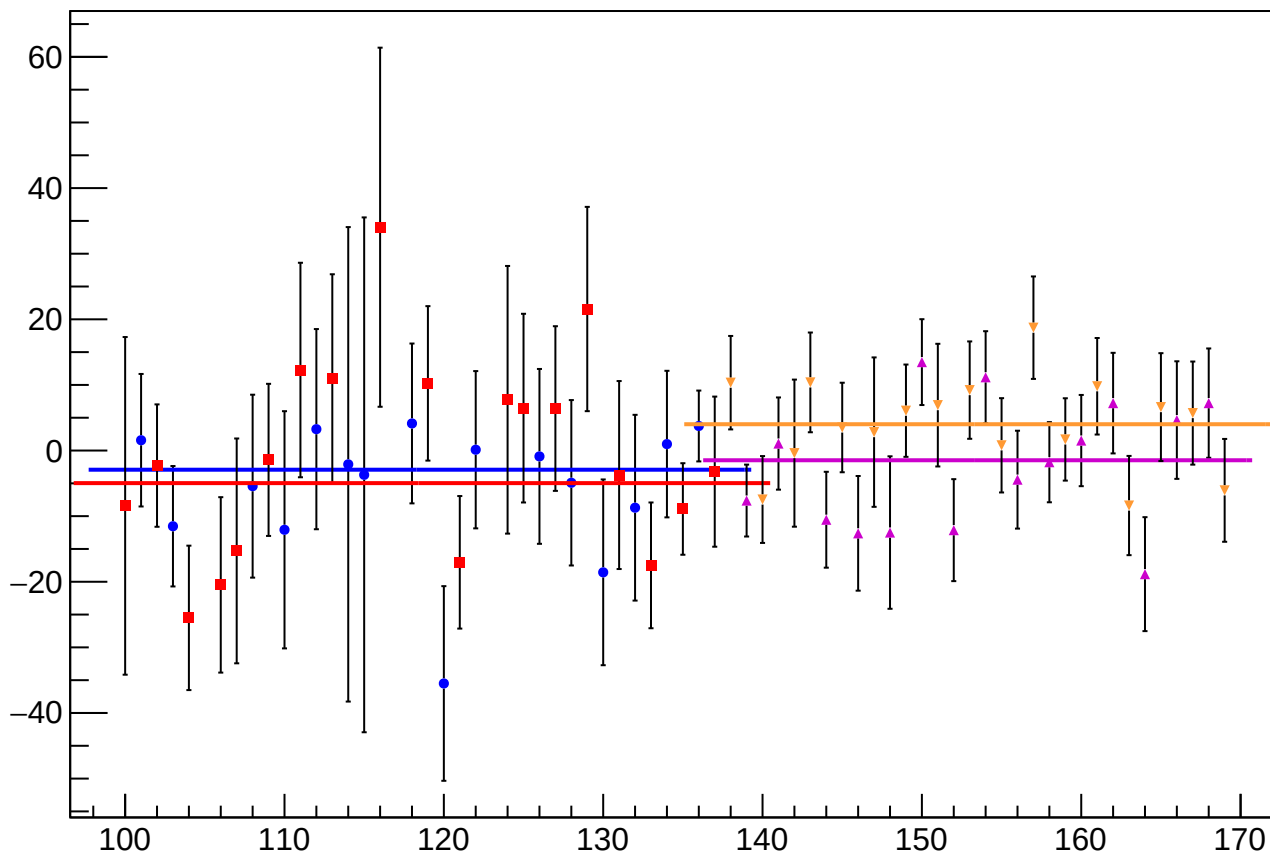
Right: 321.403 ± 0.059 $\chi^2/\text{NDF}: 34822.5/34$

In: 321.140 ± 0.052 $\chi^2/\text{NDF}: 75007.7/30$

Out: 321.812 ± 0.050 $\chi^2/\text{NDF}: 81858.2/35$

All: 321.487 ± 0.036 $\chi^2/\text{NDF}: 156953.6/66$

diff_bpm_4aY_4acY_avg_mean vs Slug, Sign Corrected



Right In: -2.922 ± 2.910 χ^2/NDF : 9.8/15

Left Out: 4.011 ± 1.853 χ^2/NDF : 14.3/16

Right Out: -4.965 ± 2.824 χ^2/NDF : 19.4/18

Left In: -1.481 ± 1.905 χ^2/NDF : 23.0/14

Left: 1.341 ± 1.328 χ^2/NDF : 41.6/31

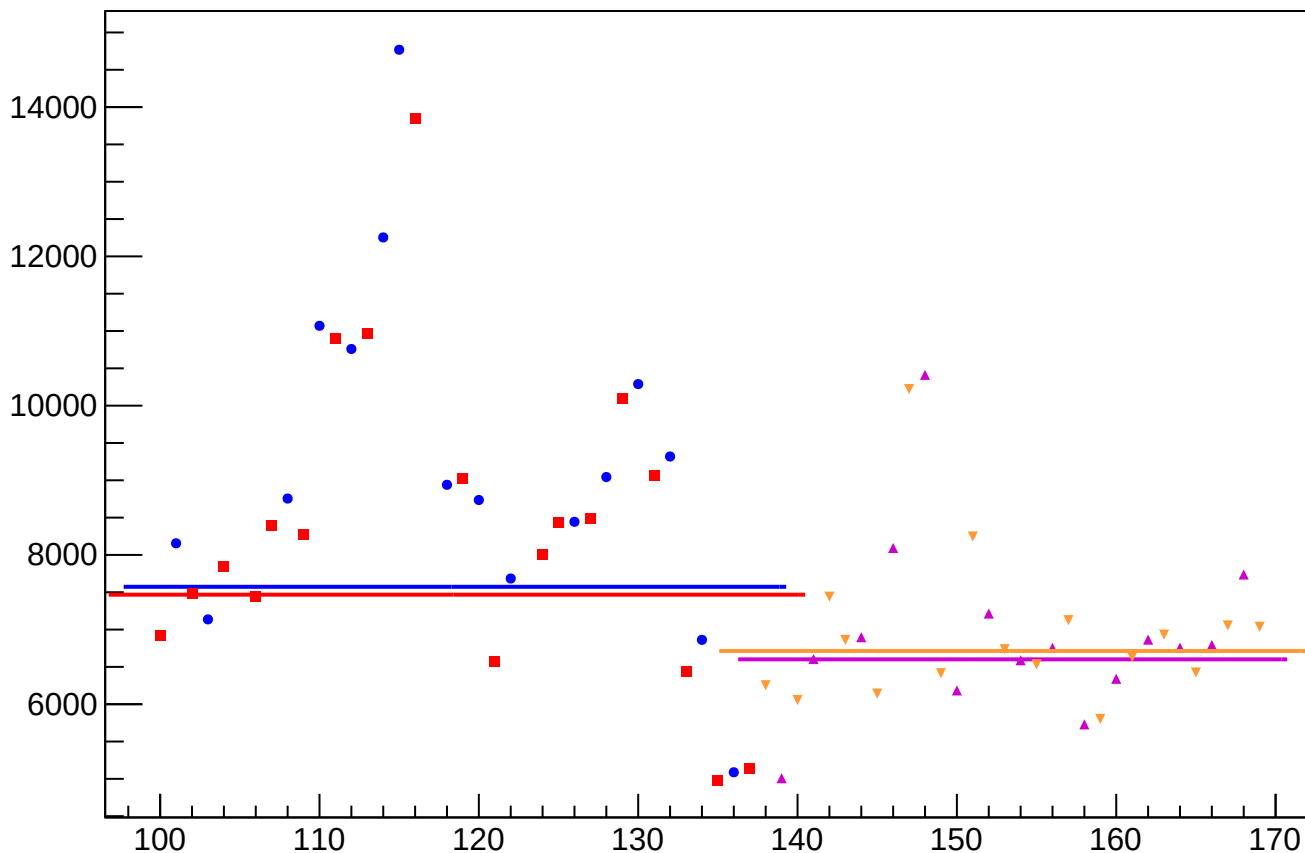
Right: -3.974 ± 2.027 χ^2/NDF : 29.5/34

In: -1.913 ± 1.594 χ^2/NDF : 33.0/30

Out: 1.309 ± 1.549 χ^2/NDF : 40.8/35

All: -0.256 ± 1.111 χ^2/NDF : 75.9/66

diff_bpm_4aY_4acY_avg_rms vs Slug, Sign Corrected



Right In: 7573.161 $\pm$ 2.058 χ^2 /NDF: 897588.4/15

Left Out: 6713.478 $\pm$ 1.310 χ^2 /NDF: 359176.5/16

Right Out: 7467.477 $\pm$ 1.997 χ^2 /NDF: 828353.3/18

Left In: 6600.967 $\pm$ 1.347 χ^2 /NDF: 552021.6/14

Left: 6658.772 $\pm$ 0.939 χ^2 /NDF: 914782.8/31

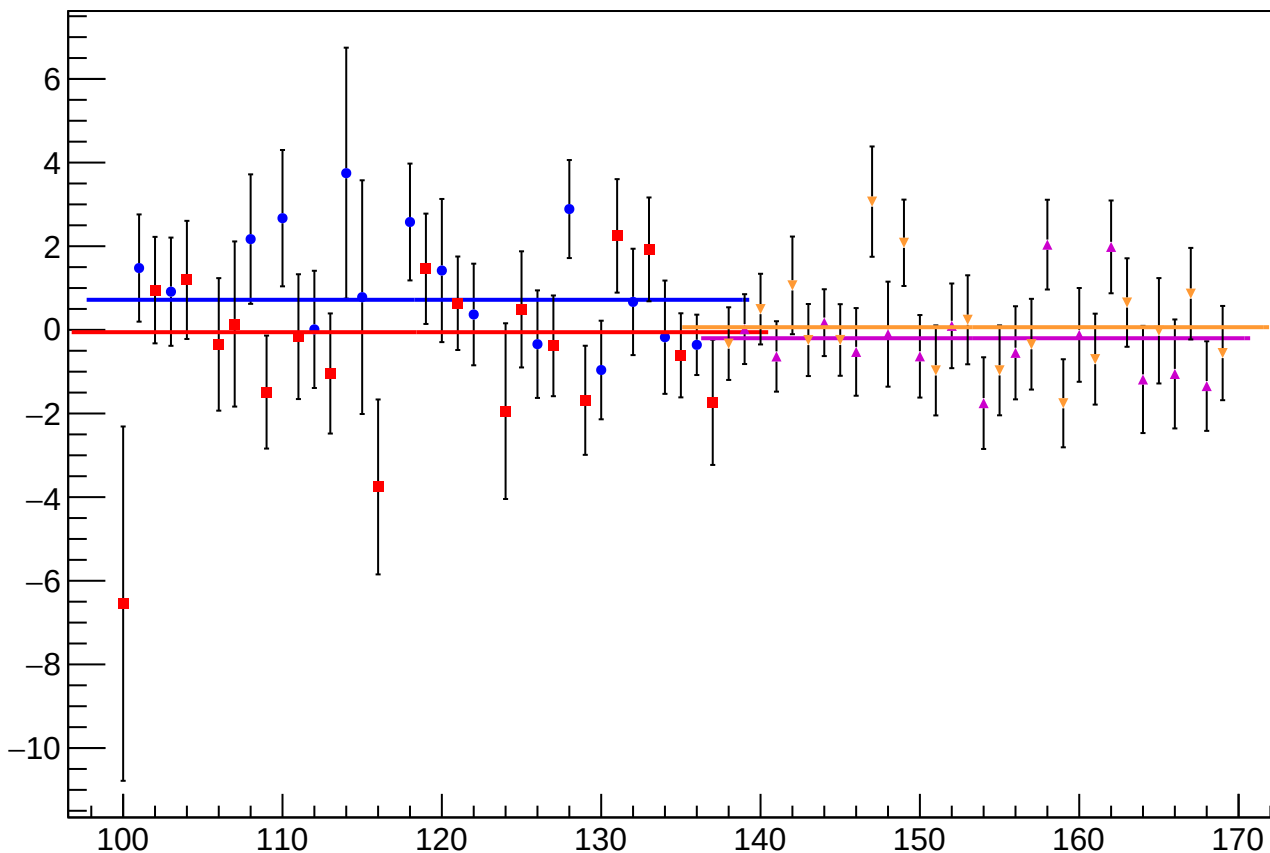
Right: 7518.728 $\pm$ 1.433 χ^2 /NDF: 1727300.0/34

In: 6892.543 $\pm$ 1.127 χ^2 /NDF: 1605855.4/30

Out: 6940.430 $\pm$ 1.096 χ^2 /NDF: 1287191.6/35

All: 6917.165 $\pm$ 0.786 χ^2 /NDF: 2893975.3/66

diff_bpm_4aY_4acY_dd_mean vs Slug, Sign Corrected



Right In: 0.719 ± 0.326 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.064 ± 0.250 $\chi^2/\text{NDF}: 17.1/16$

Right Out: -0.056 ± 0.323 $\chi^2/\text{NDF}: 19.8/18$

Left In: -0.200 ± 0.266 $\chi^2/\text{NDF}: 13.4/14$

Left: -0.060 ± 0.182 $\chi^2/\text{NDF}: 31.0/31$

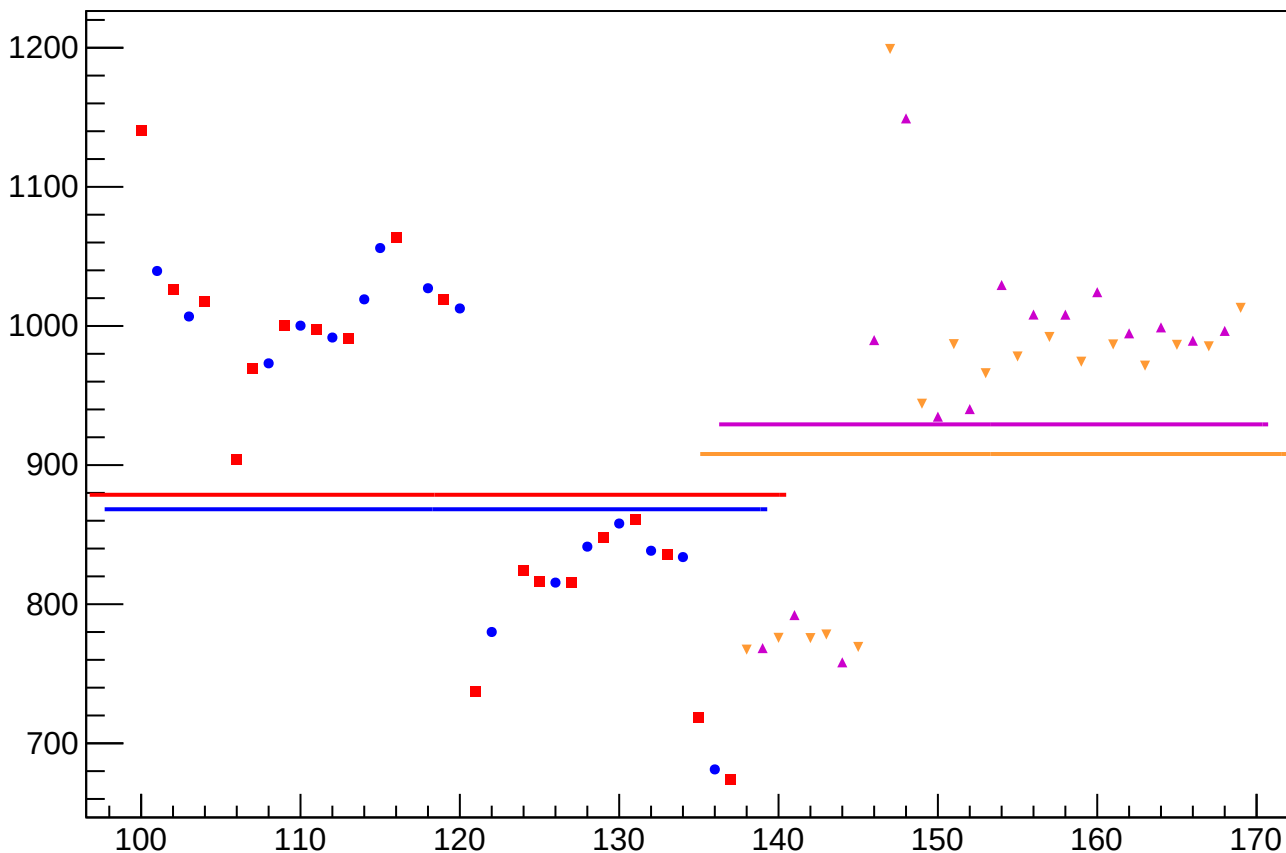
Right: 0.329 ± 0.230 $\chi^2/\text{NDF}: 37.4/34$

In: 0.167 ± 0.206 $\chi^2/\text{NDF}: 33.0/30$

Out: 0.019 ± 0.198 $\chi^2/\text{NDF}: 37.0/35$

All: 0.090 ± 0.143 $\chi^2/\text{NDF}: 70.2/66$

diff_bpm_4aY_4acY_dd_rms vs Slug, Sign Corrected



Right In: 868.253 $\pm$ 0.230 χ^2 /NDF: 302409.6/15

Left Out: 907.971 $\pm$ 0.177 χ^2 /NDF: 422863.5/16

Right Out: 878.658 $\pm$ 0.229 χ^2 /NDF: 272530.7/18

Left In: 929.274 $\pm$ 0.188 χ^2 /NDF: 364103.5/14

Left: 917.953 $\pm$ 0.129 χ^2 /NDF: 793787.7/31

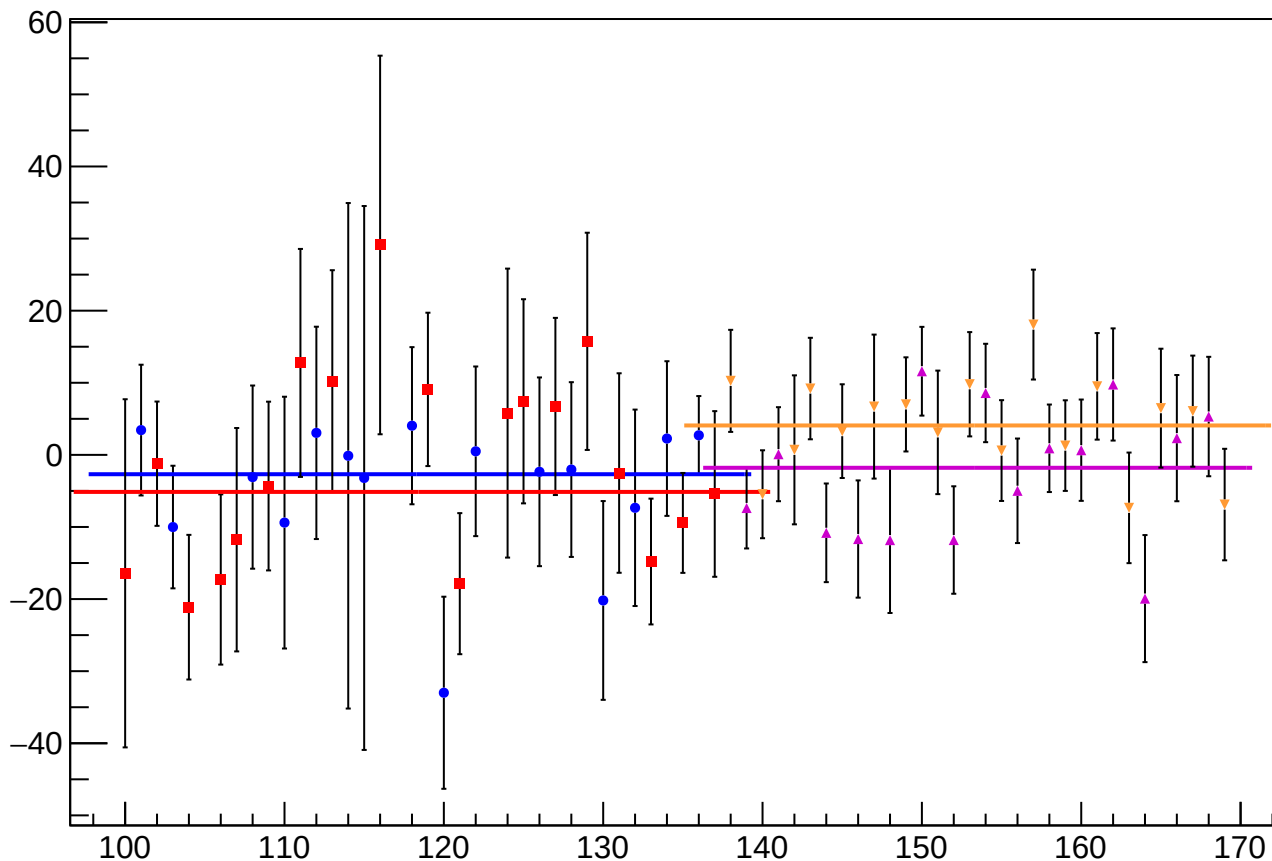
Right: 873.496 $\pm$ 0.162 χ^2 /NDF: 575967.6/34

In: 904.886 $\pm$ 0.146 χ^2 /NDF: 708601.5/30

Out: 897.021 $\pm$ 0.140 χ^2 /NDF: 705690.1/35

All: 900.790 $\pm$ 0.101 χ^2 /NDF: 1415809.4/66

diff_bpm_4aY_4eY_avg_mean vs Slug, Sign Corrected



Right In: -2.683 ± 2.788 χ^2/NDF : 10.1/15

Left Out: 4.081 ± 1.788 χ^2/NDF : 13.5/16

Right Out: -5.136 ± 2.692 χ^2/NDF : 17.3/18

Left In: -1.792 ± 1.854 χ^2/NDF : 22.0/14

Left: 1.252 ± 1.287 χ^2/NDF : 40.7/31

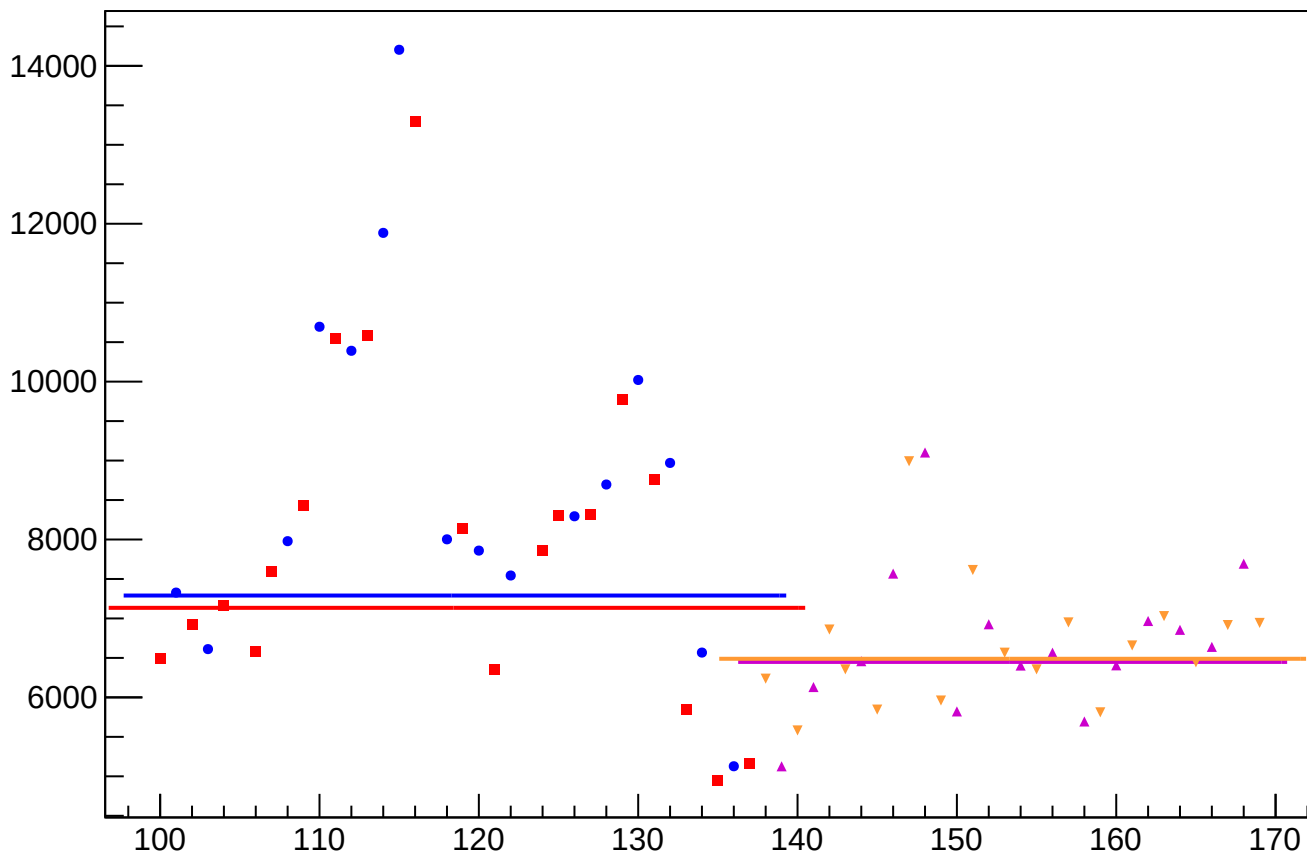
Right: -3.953 ± 1.937 χ^2/NDF : 27.7/34

In: -2.065 ± 1.544 χ^2/NDF : 32.2/30

Out: 1.260 ± 1.489 χ^2/NDF : 38.9/35

All: -0.343 ± 1.072 χ^2/NDF : 73.5/66

diff_bpm_4aY_4eY_avg_rms vs Slug, Sign Corrected



Right In: 7290.246 $\pm$ 1.972 χ^2 /NDF: 770518.2/15

Left Out: 6489.032 $\pm$ 1.264 χ^2 /NDF: 298594.3/16

Right Out: 7134.411 $\pm$ 1.903 χ^2 /NDF: 792788.1/18

Left In: 6449.267 $\pm$ 1.311 χ^2 /NDF: 411088.6/14

Left: 6469.875 $\pm$ 0.910 χ^2 /NDF: 710159.6/31

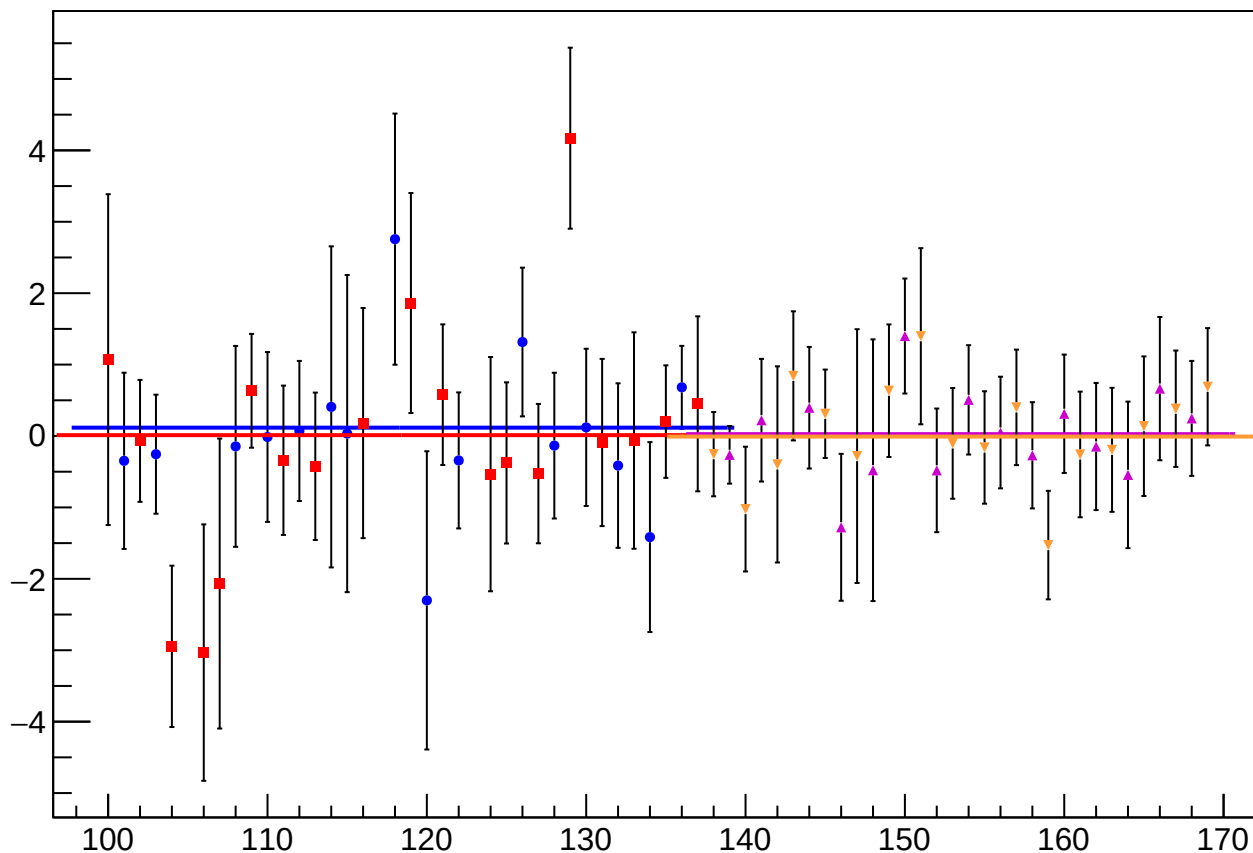
Right: 7209.592 $\pm$ 1.369 χ^2 /NDF: 1566539.8/34

In: 6707.140 $\pm$ 1.092 χ^2 /NDF: 1307766.1/30

Out: 6686.545 $\pm$ 1.053 χ^2 /NDF: 1171157.8/35

All: 6696.471 $\pm$ 0.758 χ^2 /NDF: 2479108.3/66

diff_bpm_4aY_4eY_dd_mean vs Slug, Sign Corrected



Right In: 0.117 ± 0.273 $\chi^2/\text{NDF}: 8.1/15$

Left Out: -0.008 ± 0.205 $\chi^2/\text{NDF}: 10.0/16$

Right Out: 0.012 ± 0.263 $\chi^2/\text{NDF}: 25.2/18$

Left In: 0.026 ± 0.203 $\chi^2/\text{NDF}: 7.2/14$

Left: 0.009 ± 0.144 $\chi^2/\text{NDF}: 17.2/31$

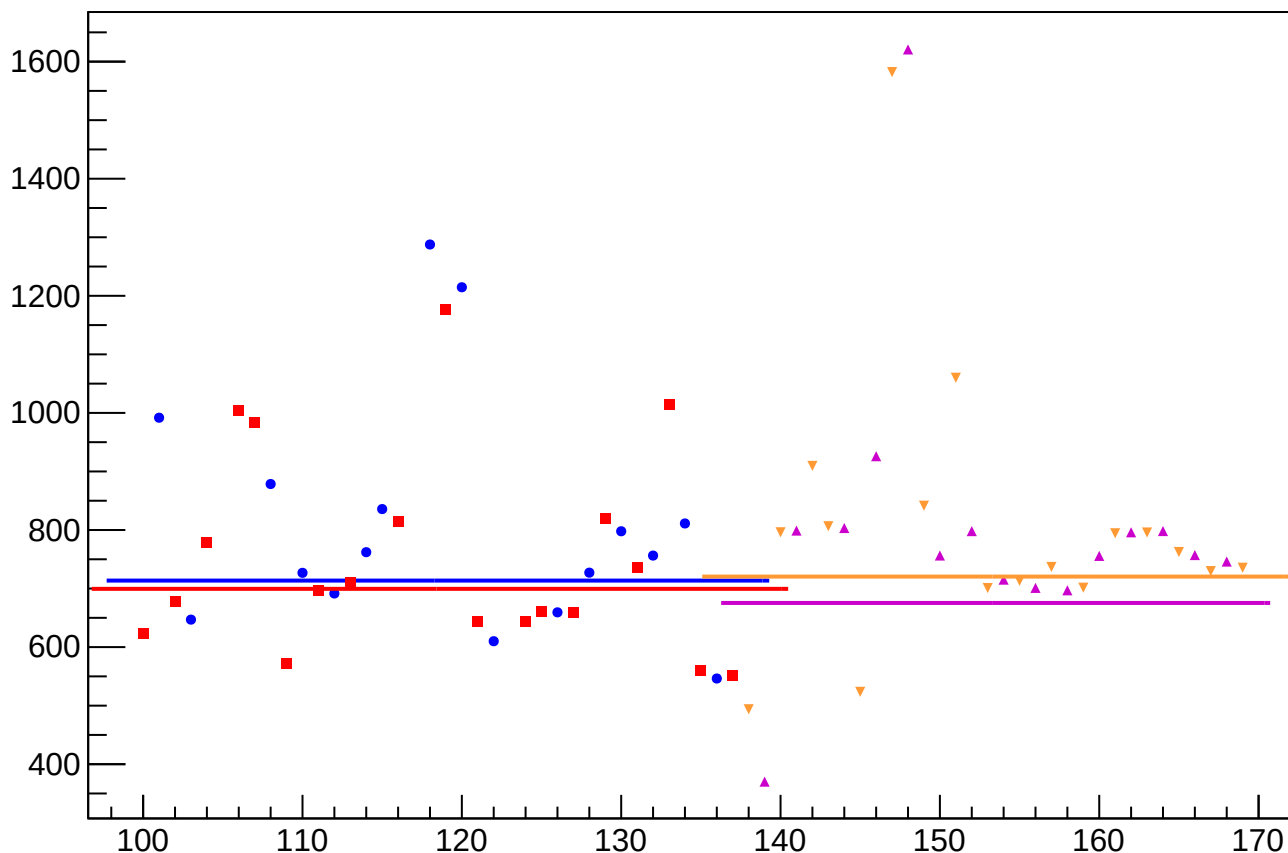
Right: 0.063 ± 0.190 $\chi^2/\text{NDF}: 33.4/34$

In: 0.058 ± 0.163 $\chi^2/\text{NDF}: 15.4/30$

Out: -0.000 ± 0.162 $\chi^2/\text{NDF}: 35.1/35$

All: 0.029 ± 0.115 $\chi^2/\text{NDF}: 50.6/66$

diff_bpm_4aY_4eY_dd_rms vs Slug, Sign Corrected



Right In: 713.627 ± 0.193 χ^2/NDF : 699303.9/15

Left Out: 720.451 ± 0.145 χ^2/NDF : 1261745.6/16

Right Out: 699.502 ± 0.186 χ^2/NDF : 575759.9/18

Left In: 675.416 ± 0.143 χ^2/NDF : 2065785.3/14

Left: 697.709 ± 0.102 χ^2/NDF : 3376442.8/31

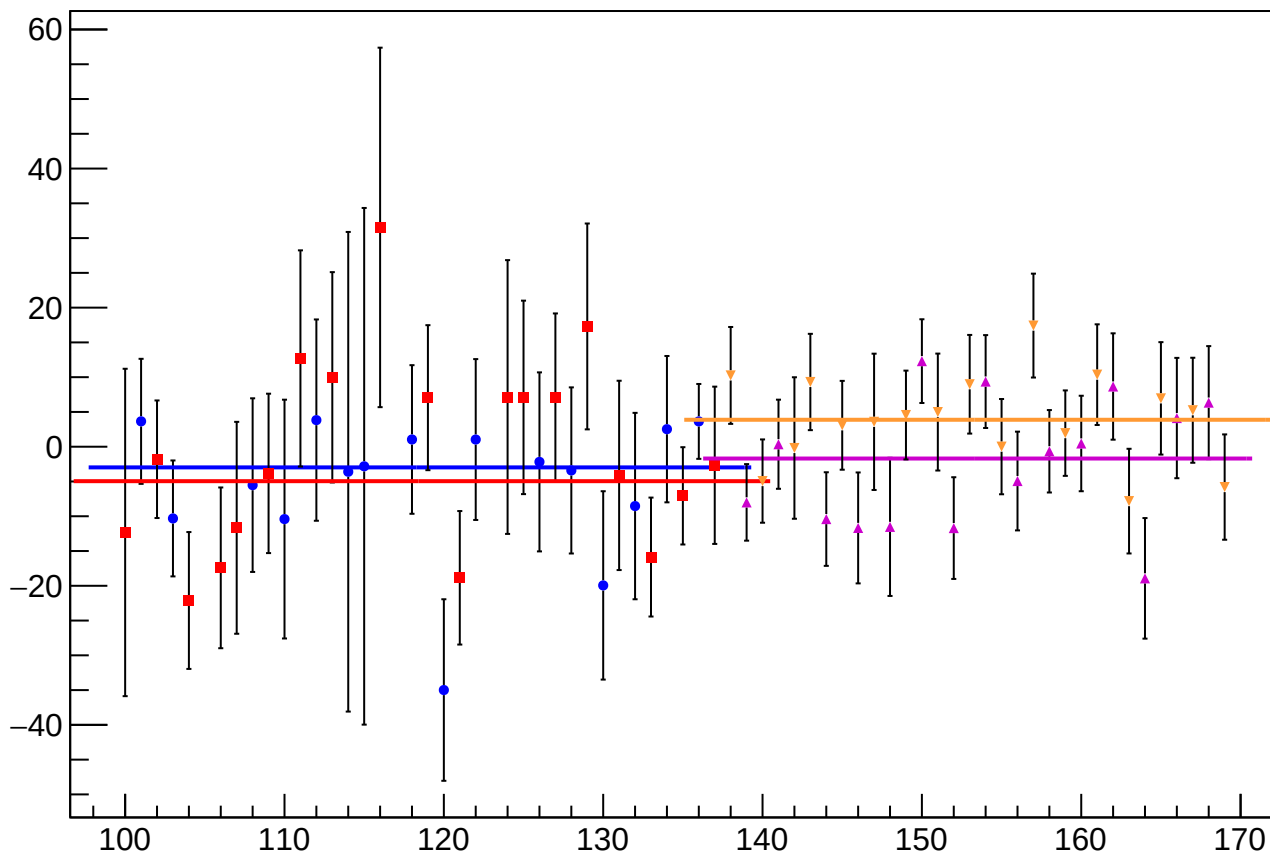
Right: 706.303 ± 0.134 χ^2/NDF : 1277836.8/34

In: 688.978 ± 0.115 χ^2/NDF : 2790335.3/30

Out: 712.559 ± 0.114 χ^2/NDF : 1845401.7/35

All: 700.854 ± 0.081 χ^2/NDF : 4656886.5/66

diff_bpm_4aY_4ecY_avg_mean vs Slug, Sign Corrected



Right In: -2.974 ± 2.746 χ^2/NDF : 11.6/15

Left Out: 3.875 ± 1.754 χ^2/NDF : 13.1/16

Right Out: -4.955 ± 2.653 χ^2/NDF : 18.5/18

Left In: -1.700 ± 1.818 χ^2/NDF : 23.2/14

Left: 1.189 ± 1.262 χ^2/NDF : 41.2/31

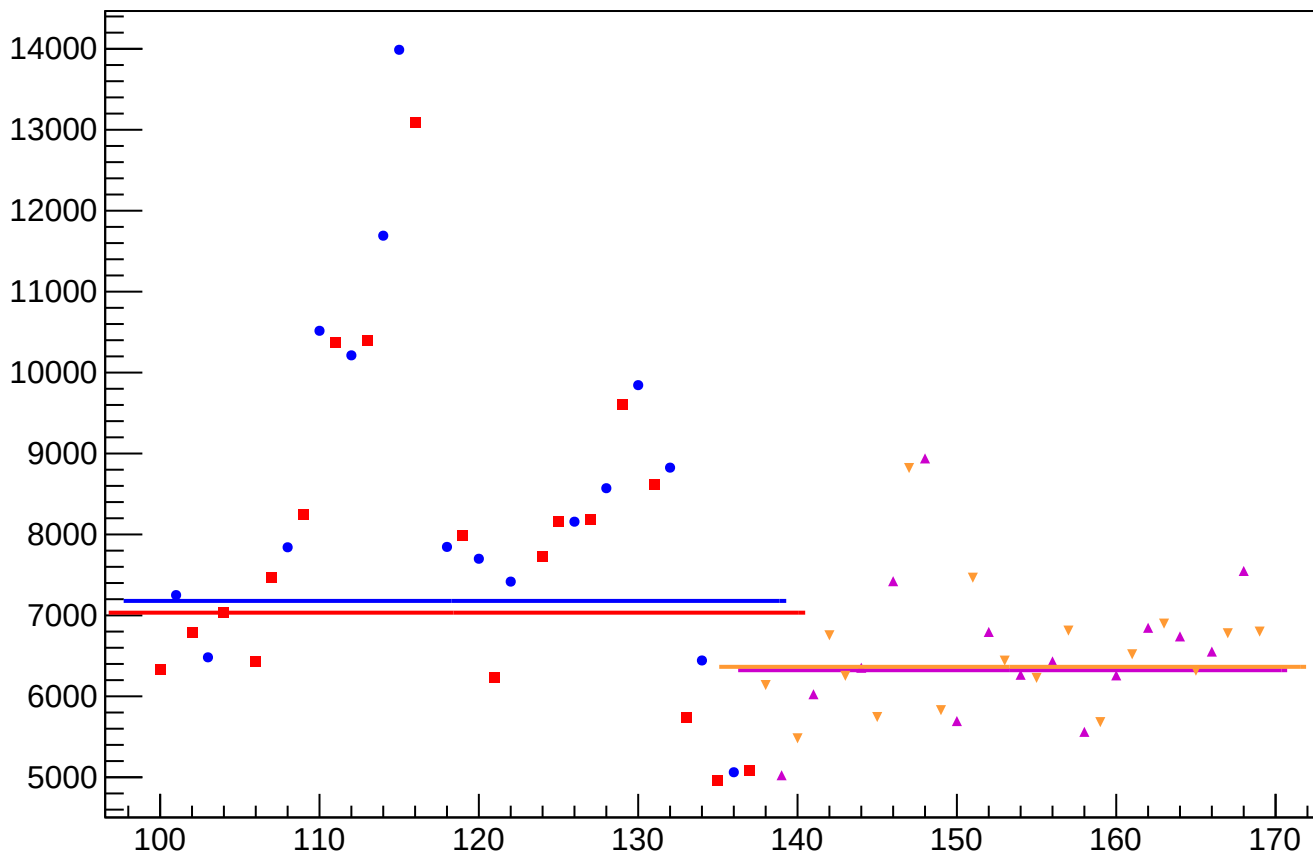
Right: -3.999 ± 1.908 χ^2/NDF : 30.3/34

In: -2.088 ± 1.516 χ^2/NDF : 34.9/30

Out: 1.190 ± 1.463 χ^2/NDF : 39.3/35

All: -0.390 ± 1.053 χ^2/NDF : 76.6/66

diff_bpm_4aY_4ecY_avg_rms vs Slug, Sign Corrected



Right In: 7178.925 $\pm$ 1.942 χ^2 /NDF: 761936.2/15

Left Out: 6364.492 $\pm$ 1.240 χ^2 /NDF: 298511.7/16

Right Out: 7033.538 $\pm$ 1.876 χ^2 /NDF: 766389.2/18

Left In: 6322.673 $\pm$ 1.286 χ^2 /NDF: 417240.6/14

Left: 6344.341 $\pm$ 0.893 χ^2 /NDF: 716300.3/31

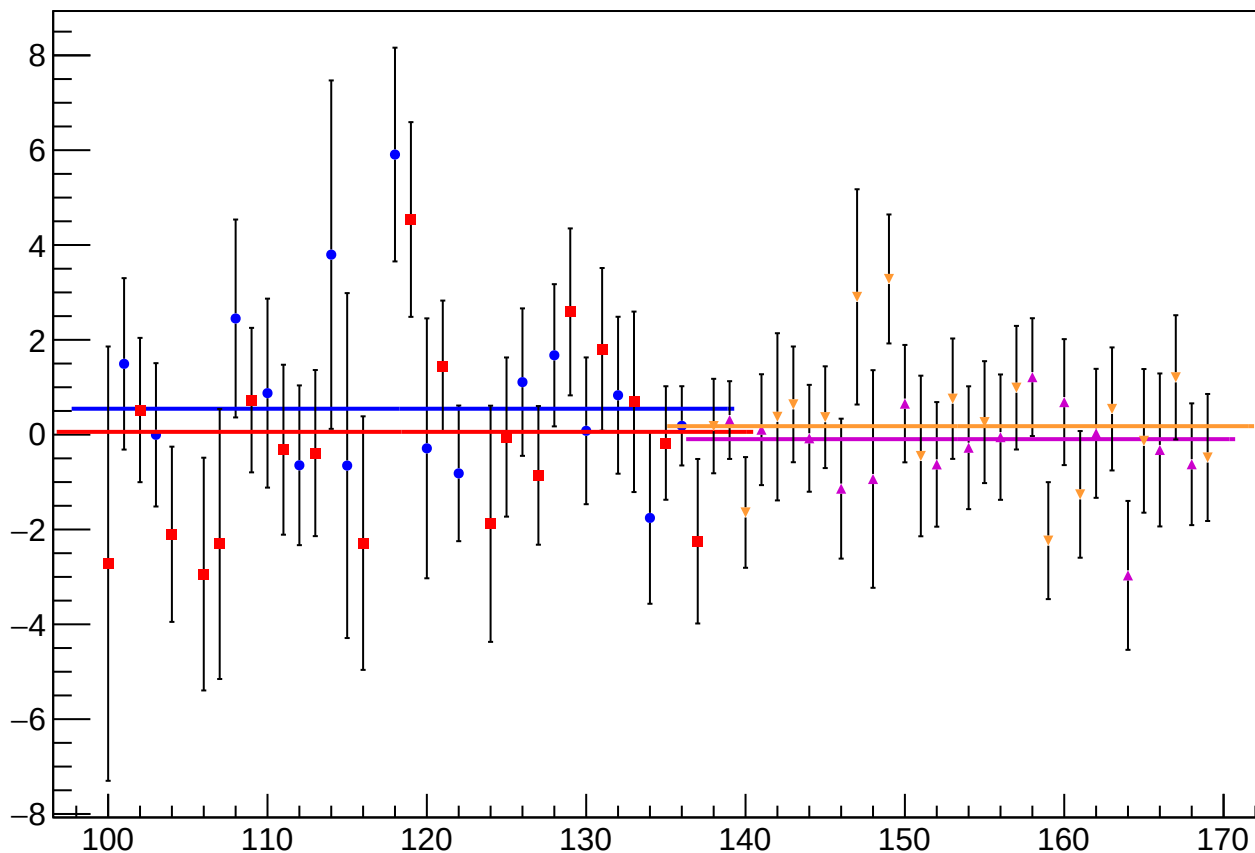
Right: 7103.732 $\pm$ 1.349 χ^2 /NDF: 1531224.9/34

In: 6583.689 $\pm$ 1.072 χ^2 /NDF: 1314354.3/30

Out: 6567.899 $\pm$ 1.034 χ^2 /NDF: 1153411.8/35

All: 6575.512 $\pm$ 0.744 χ^2 /NDF: 2467878.4/66

diff_bpm_4aY_4ecY_dd_mean vs Slug, Sign Corrected



Right In: 0.547 ± 0.411 $\chi^2/\text{NDF}: 11.9/15$

Left Out: 0.179 ± 0.318 $\chi^2/\text{NDF}: 16.0/16$

Right Out: 0.059 ± 0.409 $\chi^2/\text{NDF}: 16.9/18$

Left In: -0.095 ± 0.330 $\chi^2/\text{NDF}: 6.5/14$

Left: 0.047 ± 0.229 $\chi^2/\text{NDF}: 22.8/31$

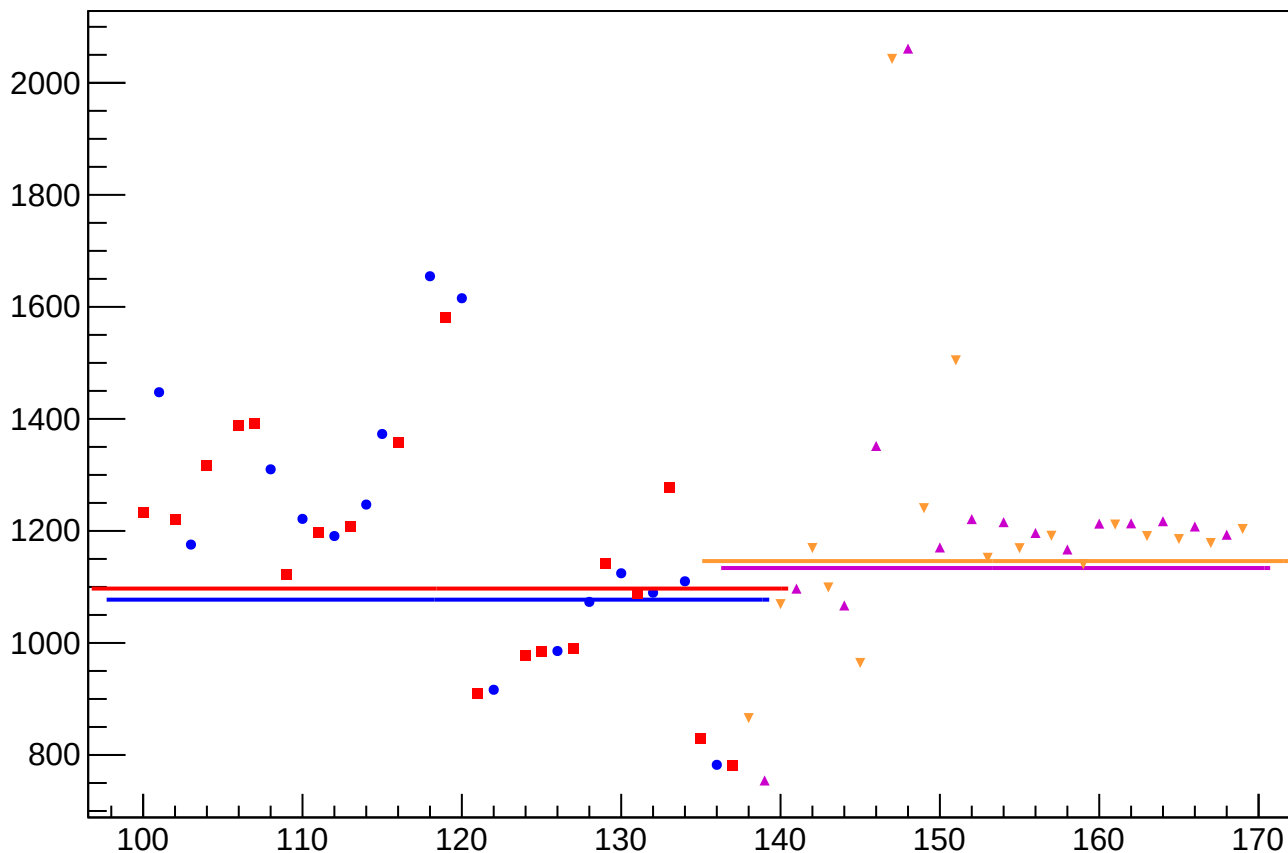
Right: 0.302 ± 0.290 $\chi^2/\text{NDF}: 29.5/34$

In: 0.157 ± 0.257 $\chi^2/\text{NDF}: 19.9/30$

Out: 0.134 ± 0.251 $\chi^2/\text{NDF}: 32.9/35$

All: 0.145 ± 0.180 $\chi^2/\text{NDF}: 52.8/66$

diff_bpm_4aY_4ecY_dd_rms vs Slug, Sign Corrected



Right In: 1077.306 $\pm$ 0.291 χ^2 /NDF: 646521.7/15

Left Out: 1146.196 $\pm$ 0.225 χ^2 /NDF: 655484.2/16

Right Out: 1097.108 $\pm$ 0.289 χ^2 /NDF: 484370.7/18

Left In: 1133.775 $\pm$ 0.233 χ^2 /NDF: 859816.6/14

Left: 1140.207 $\pm$ 0.162 χ^2 /NDF: 1516771.7/31

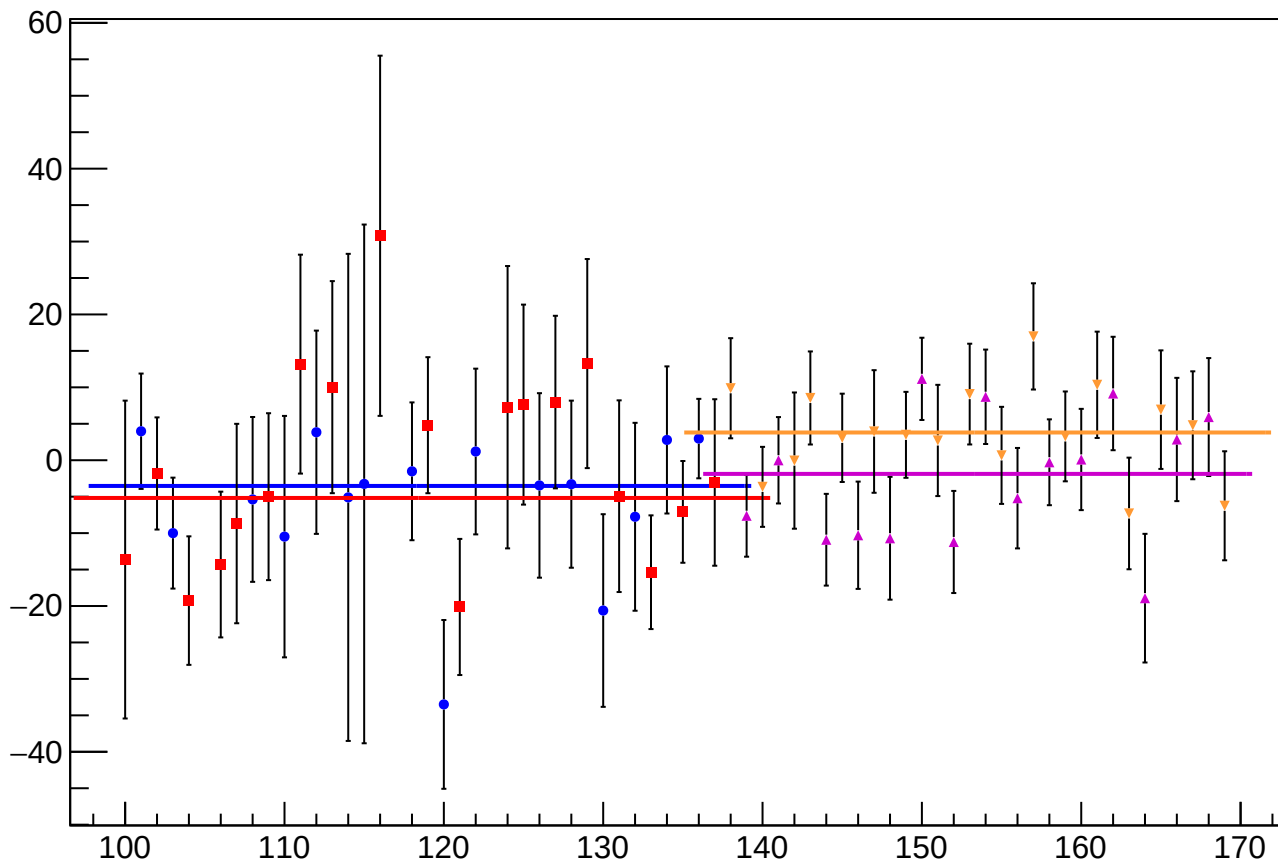
Right: 1087.256 $\pm$ 0.205 χ^2 /NDF: 1133226.7/34

In: 1111.665 $\pm$ 0.182 χ^2 /NDF: 1529324.8/30

Out: 1127.691 $\pm$ 0.178 χ^2 /NDF: 1157817.6/35

All: 1119.870 $\pm$ 0.127 χ^2 /NDF: 2691120.6/66

diff_bpm_4eY_4ecY_avg_mean vs Slug, Sign Corrected



Right In: -3.527 ± 2.608 χ^2/NDF : 12.6/15

Left Out: 3.805 ± 1.682 χ^2/NDF : 12.4/16

Right Out: -5.176 ± 2.508 χ^2/NDF : 18.2/18

Left In: -1.875 ± 1.760 χ^2/NDF : 22.8/14

Left: 1.093 ± 1.216 χ^2/NDF : 40.6/31

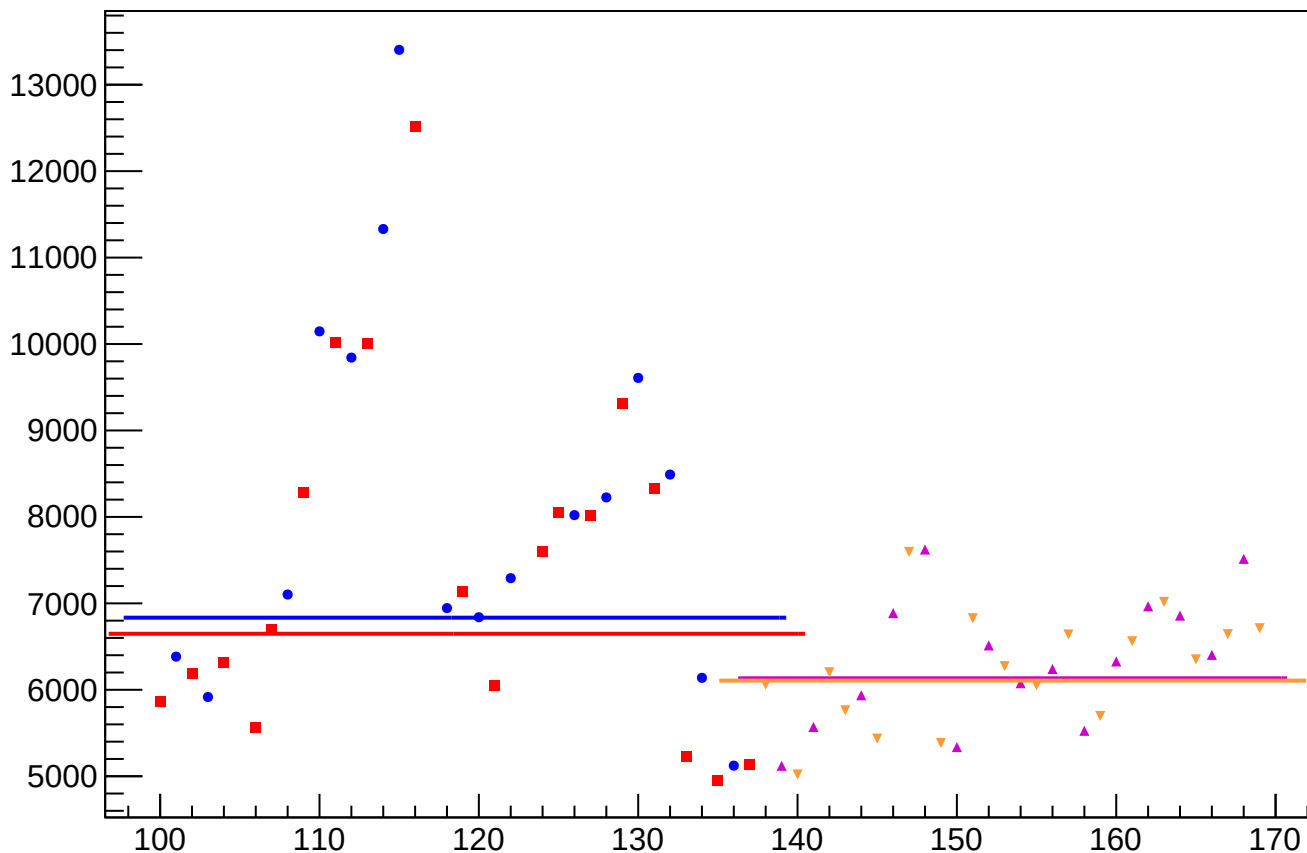
Right: -4.384 ± 1.808 χ^2/NDF : 31.0/34

In: -2.392 ± 1.459 χ^2/NDF : 35.7/30

Out: 1.019 ± 1.397 χ^2/NDF : 39.4/35

All: -0.613 ± 1.009 χ^2/NDF : 77.9/66

diff_bpm_4eY_4ecY_avg_rms vs Slug, Sign Corrected



Right In: 6834.346 $\pm$ 1.844 χ^2 /NDF: 692722.6/15

Left Out: 6106.124 $\pm$ 1.189 χ^2 /NDF: 301929.3/16

Right Out: 6647.996 $\pm$ 1.773 χ^2 /NDF: 785102.6/18

Left In: 6133.077 $\pm$ 1.244 χ^2 /NDF: 334469.4/14

Left: 6118.991 $\pm$ 0.860 χ^2 /NDF: 636643.9/31

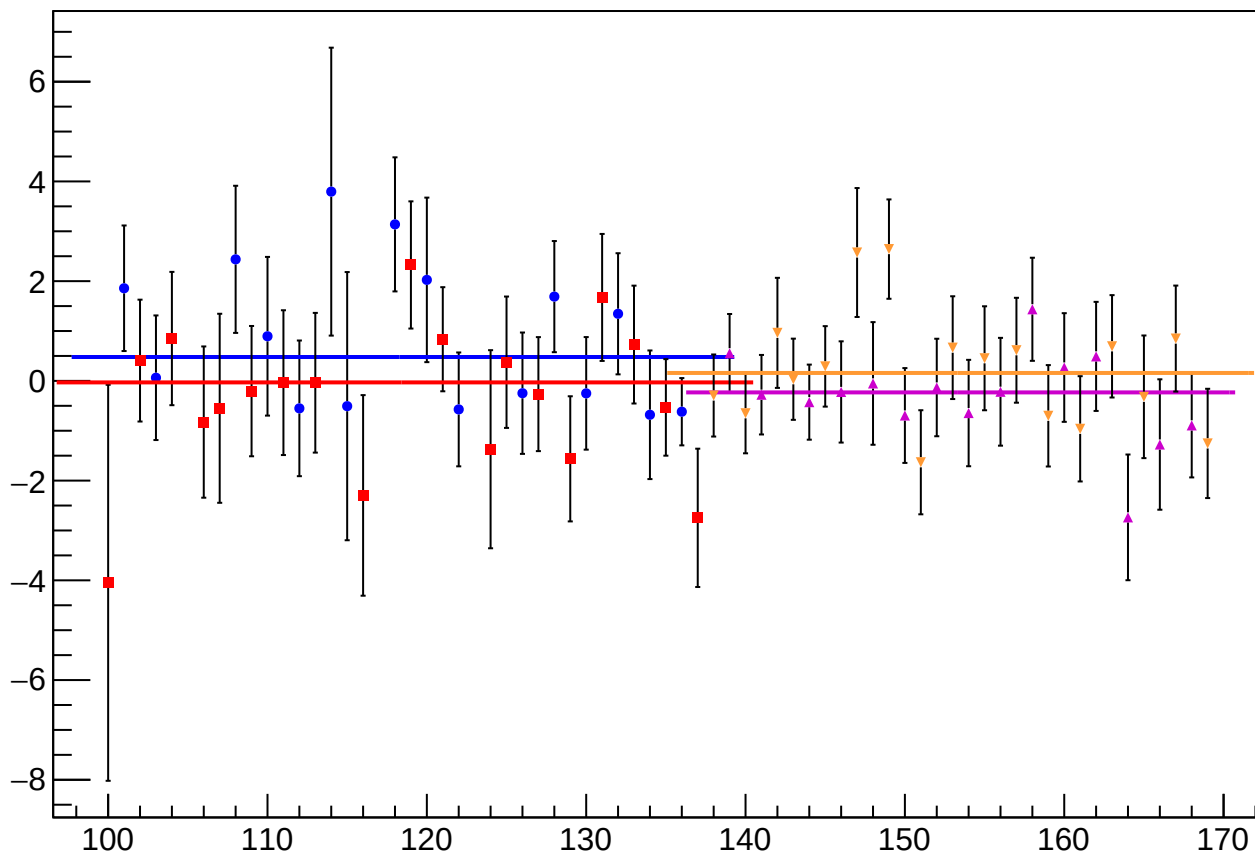
Right: 6737.523 $\pm$ 1.278 χ^2 /NDF: 1483130.1/34

In: 6352.470 $\pm$ 1.032 χ^2 /NDF: 1126545.7/30

Out: 6274.232 $\pm$ 0.988 χ^2 /NDF: 1151431.7/35

All: 6311.656 $\pm$ 0.713 χ^2 /NDF: 2280978.3/66

diff_bpm_4eY_4ecY_dd_mean vs Slug, Sign Corrected



Right In: 0.479 ± 0.311 $\chi^2/\text{NDF}: 16.7/15$

Left Out: 0.159 ± 0.240 $\chi^2/\text{NDF}: 19.4/16$

Right Out: -0.030 ± 0.309 $\chi^2/\text{NDF}: 15.7/18$

Left In: -0.231 ± 0.256 $\chi^2/\text{NDF}: 9.7/14$

Left: -0.023 ± 0.175 $\chi^2/\text{NDF}: 30.4/31$

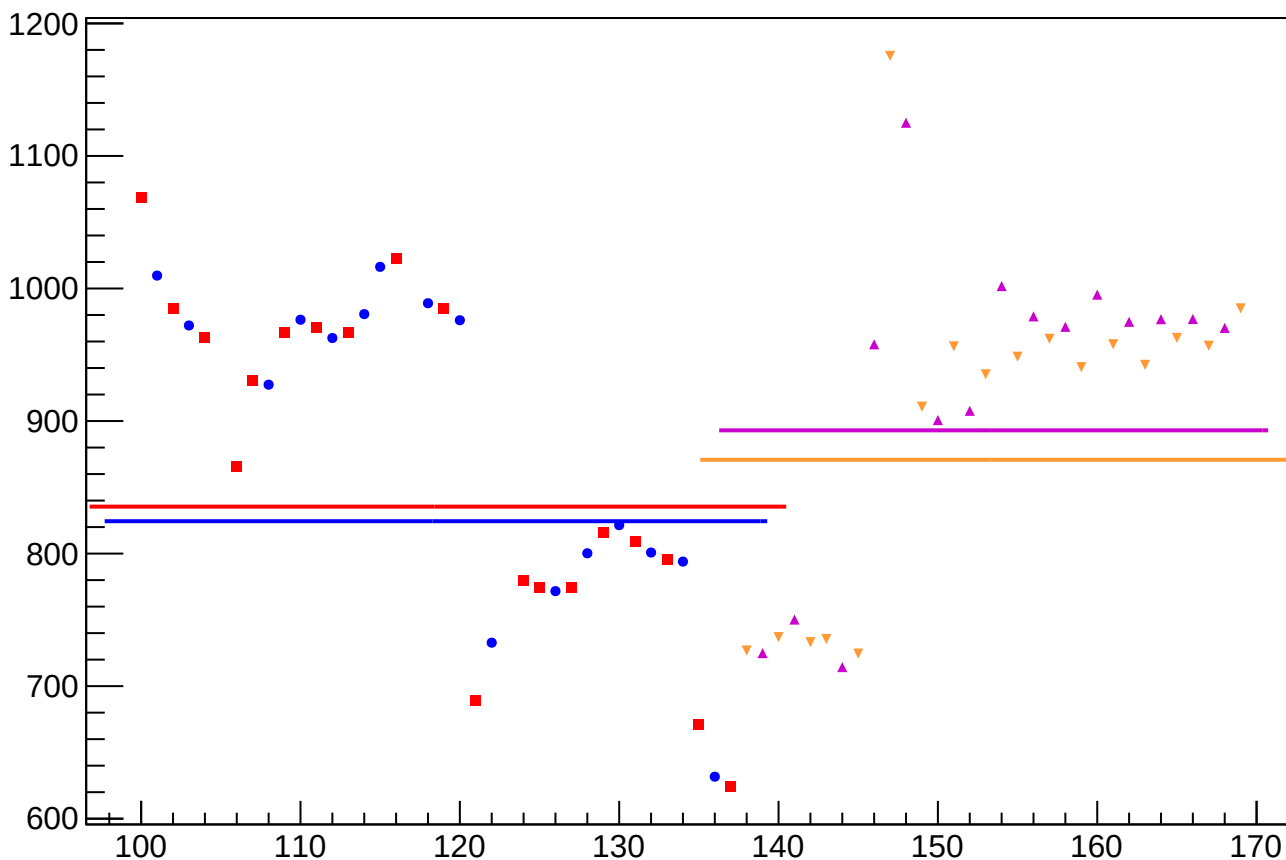
Right: 0.222 ± 0.219 $\chi^2/\text{NDF}: 33.8/34$

In: 0.056 ± 0.198 $\chi^2/\text{NDF}: 29.5/30$

Out: 0.088 ± 0.189 $\chi^2/\text{NDF}: 35.4/35$

All: 0.073 ± 0.137 $\chi^2/\text{NDF}: 64.9/66$

diff_bpm_4eY_4ecY_dd_rms vs Slug, Sign Corrected



Right In: 824.431 $\pm$ 0.220 χ^2 /NDF: 365461.7/15

Left Out: 870.786 $\pm$ 0.170 χ^2 /NDF: 509259.1/16

Right Out: 835.437 $\pm$ 0.218 χ^2 /NDF: 319302.1/18

Left In: 892.984 $\pm$ 0.181 χ^2 /NDF: 449576.7/14

Left: 881.149 $\pm$ 0.124 χ^2 /NDF: 966829.1/31

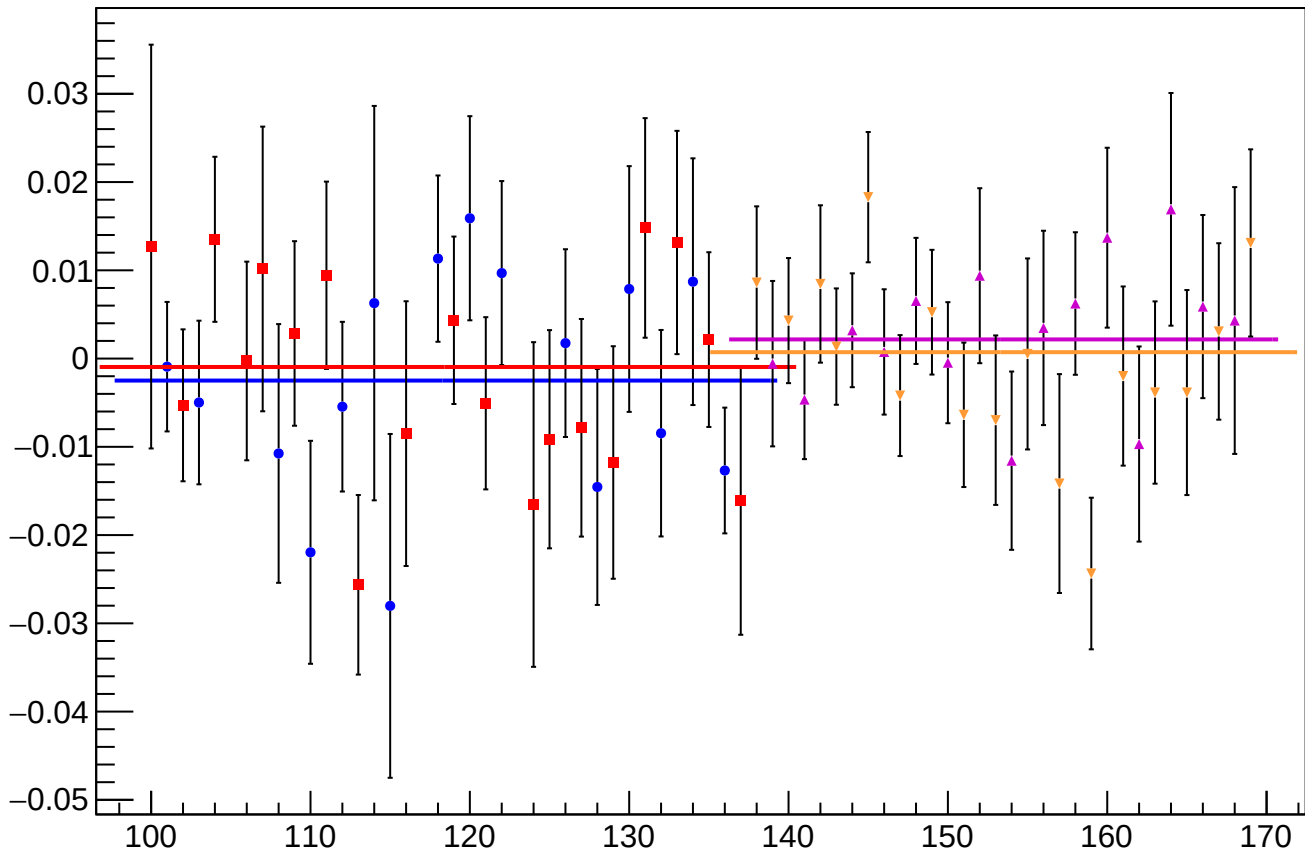
Right: 829.974 $\pm$ 0.155 χ^2 /NDF: 686027.0/34

In: 865.224 $\pm$ 0.140 χ^2 /NDF: 872941.0/30

Out: 857.467 $\pm$ 0.134 χ^2 /NDF: 844922.2/35

All: 861.178 $\pm$ 0.097 χ^2 /NDF: 1719467.7/66

diff_dispe_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.002 $\pm$ 0.003 χ^2/NDF : 15.3/15

Left Out: 0.001 $\pm$ 0.002 χ^2/NDF : 21.6/16

Right Out: -0.001 $\pm$ 0.003 χ^2/NDF : 17.3/18

Left In: 0.002 $\pm$ 0.002 χ^2/NDF : 8.2/14

Left: 0.001 $\pm$ 0.002 χ^2/NDF : 30.0/31

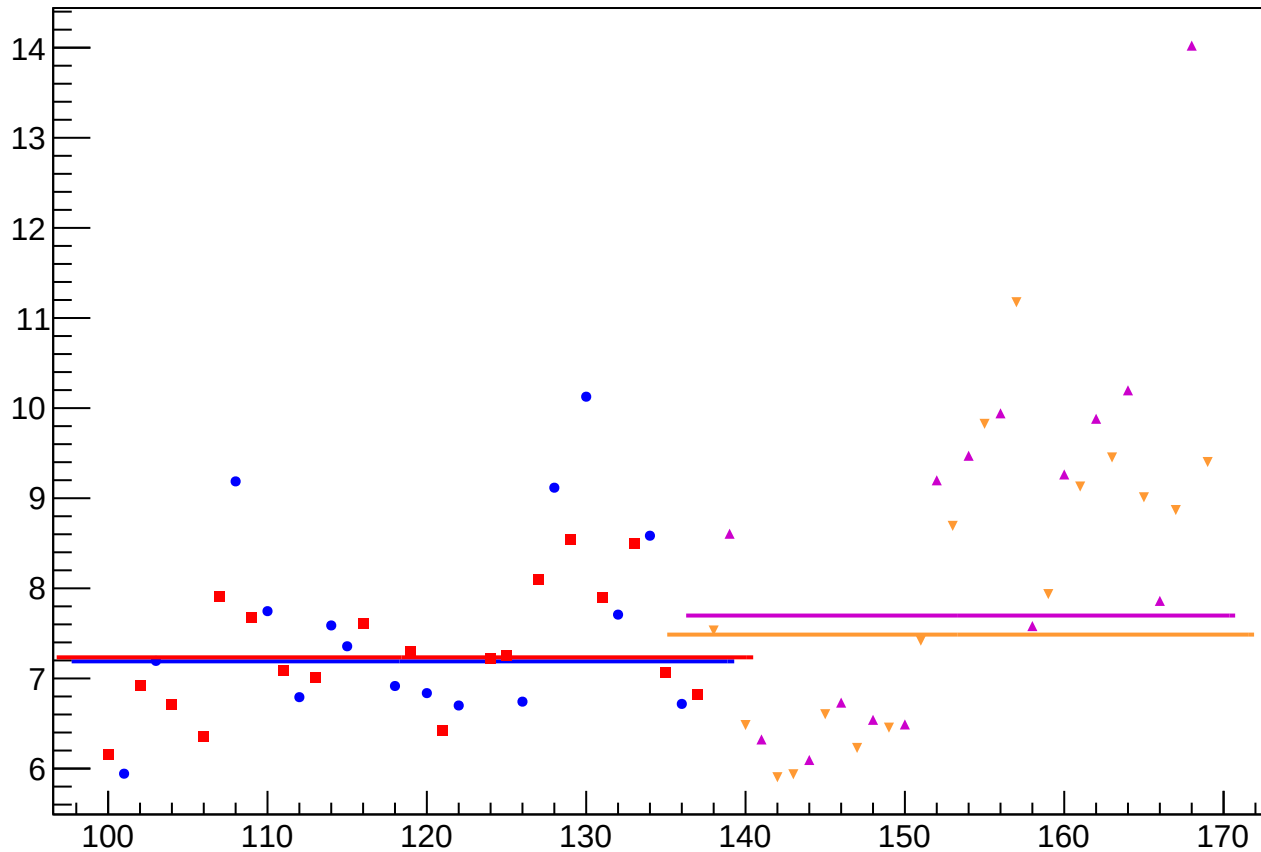
Right: -0.002 $\pm$ 0.002 χ^2/NDF : 32.8/34

In: 0.000 $\pm$ 0.002 χ^2/NDF : 25.2/30

Out: 0.000 $\pm$ 0.002 χ^2/NDF : 39.2/35

All: 0.000 $\pm$ 0.001 χ^2/NDF : 64.4/66

diff_dispE_bpm12X_rms vs Slug, Sign Corrected



Right In: 7.190 ± 0.002 χ^2/NDF : 277639.9/15

Left Out: 7.487 ± 0.001 χ^2/NDF : 922753.1/16

Right Out: 7.234 ± 0.002 χ^2/NDF : 106266.0/18

Left In: 7.698 ± 0.002 χ^2/NDF : 1115583.1/14

Left: 7.585 ± 0.001 χ^2/NDF : 2047837.0/31

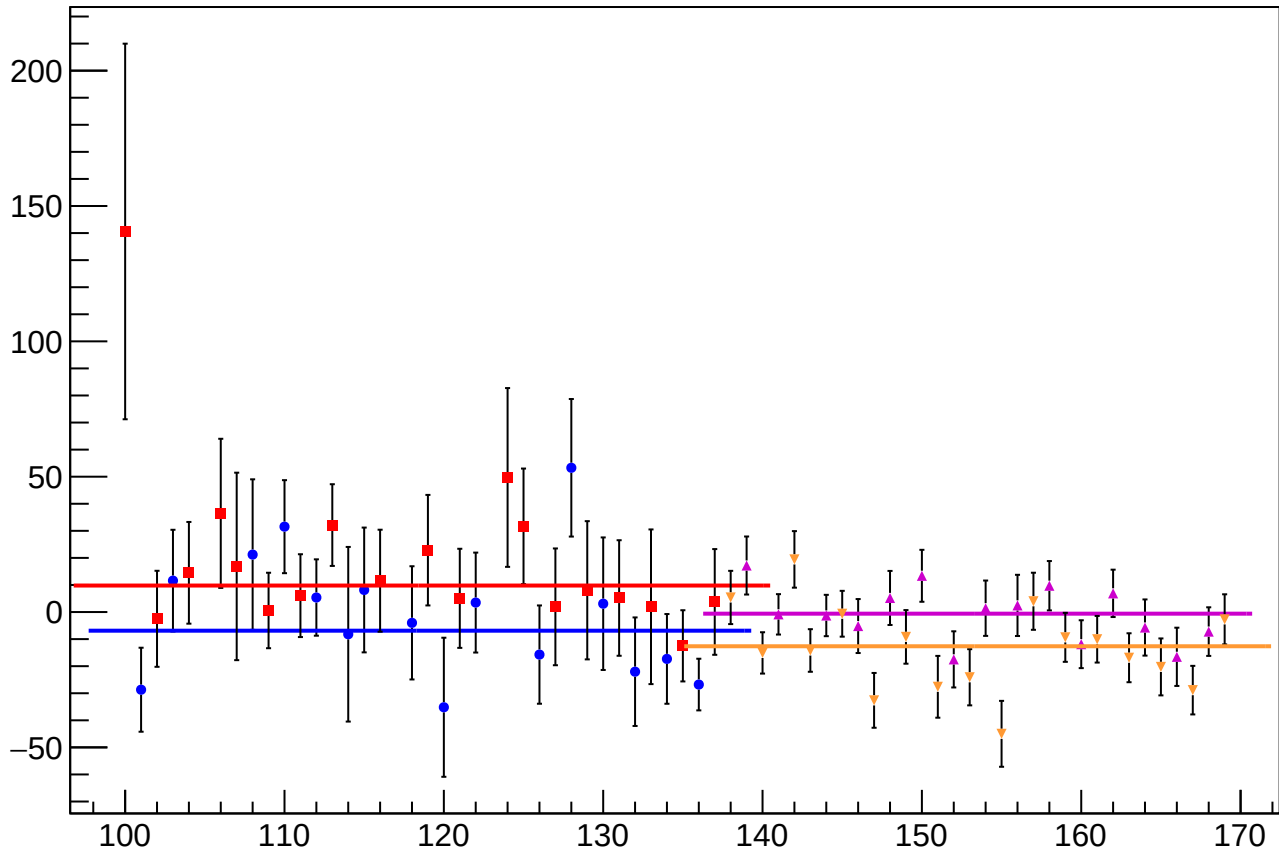
Right: 7.213 ± 0.001 χ^2/NDF : 384182.4/34

In: 7.491 ± 0.001 χ^2/NDF : 1435004.9/30

Out: 7.390 ± 0.001 χ^2/NDF : 1040134.4/35

All: 7.438 ± 0.001 χ^2/NDF : 2478741.3/66

diff_targ_positionX_mean vs Slug, Sign Corrected



Right In: -6.891 $\pm$ 4.488 χ^2/NDF : 23.0/15

Left Out: -12.642 $\pm$ 2.291 χ^2/NDF : 36.8/16

Right Out: 9.790 $\pm$ 4.517 χ^2/NDF : 14.0/18

Left In: -0.604 $\pm$ 2.428 χ^2/NDF : 14.8/14

Left: -6.971 $\pm$ 1.666 χ^2/NDF : 64.7/31

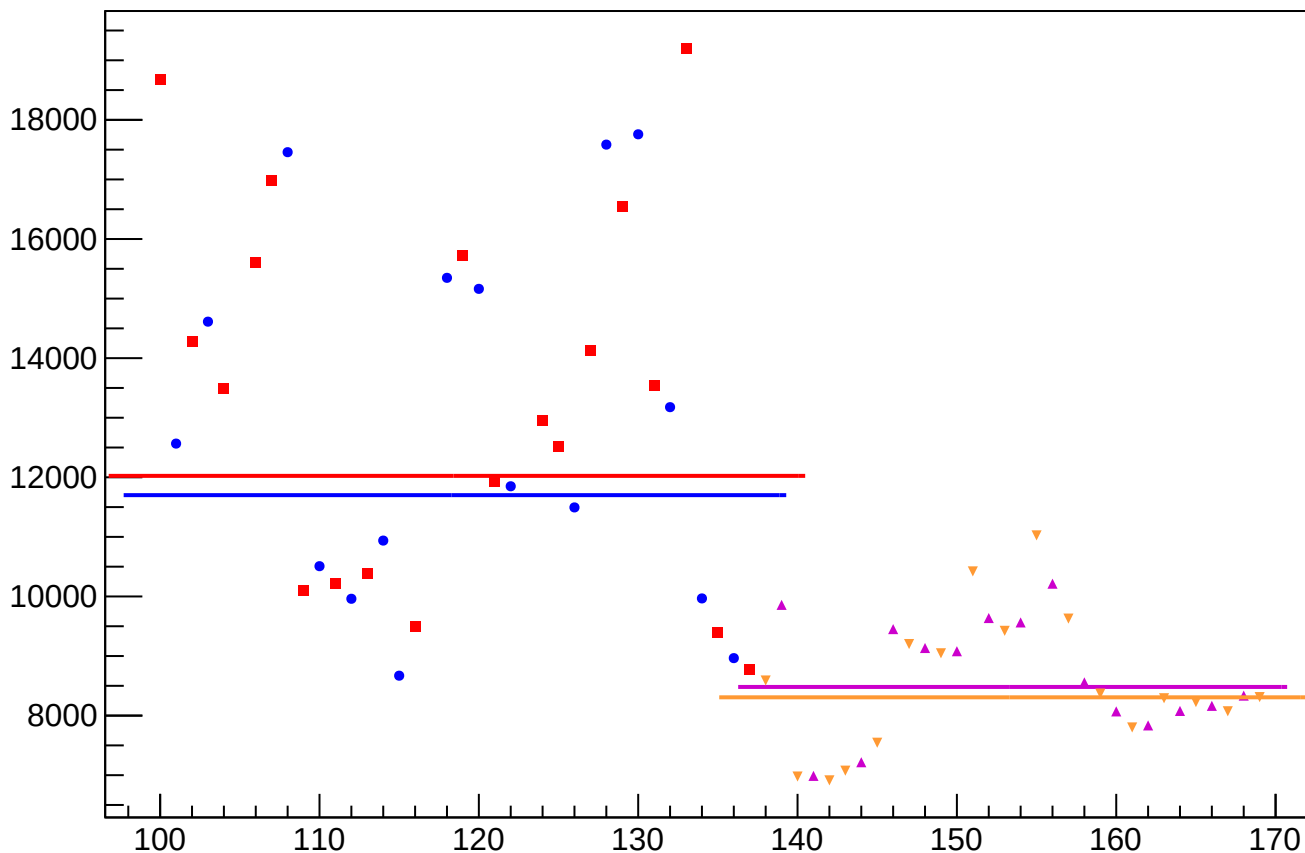
Right: 1.396 $\pm$ 3.184 χ^2/NDF : 43.9/34

In: -2.027 $\pm$ 2.135 χ^2/NDF : 39.4/30

Out: -8.052 $\pm$ 2.043 χ^2/NDF : 70.4/35

All: -5.172 $\pm$ 1.476 χ^2/NDF : 114.0/66

diff_targ_positionX_rms vs Slug, Sign Corrected



Right In: 11700.622 +/- 3.174 χ^2/NDF : 740185.3/15

Left Out: 8306.952 +/- 1.620 χ^2/NDF : 421114.7/16

Right Out: 12024.262 +/- 3.194 χ^2/NDF : 684788.9/18

Left In: 8481.138 +/- 1.717 χ^2/NDF : 318114.9/14

Left: 8389.008 +/- 1.178 χ^2/NDF : 744675.0/31

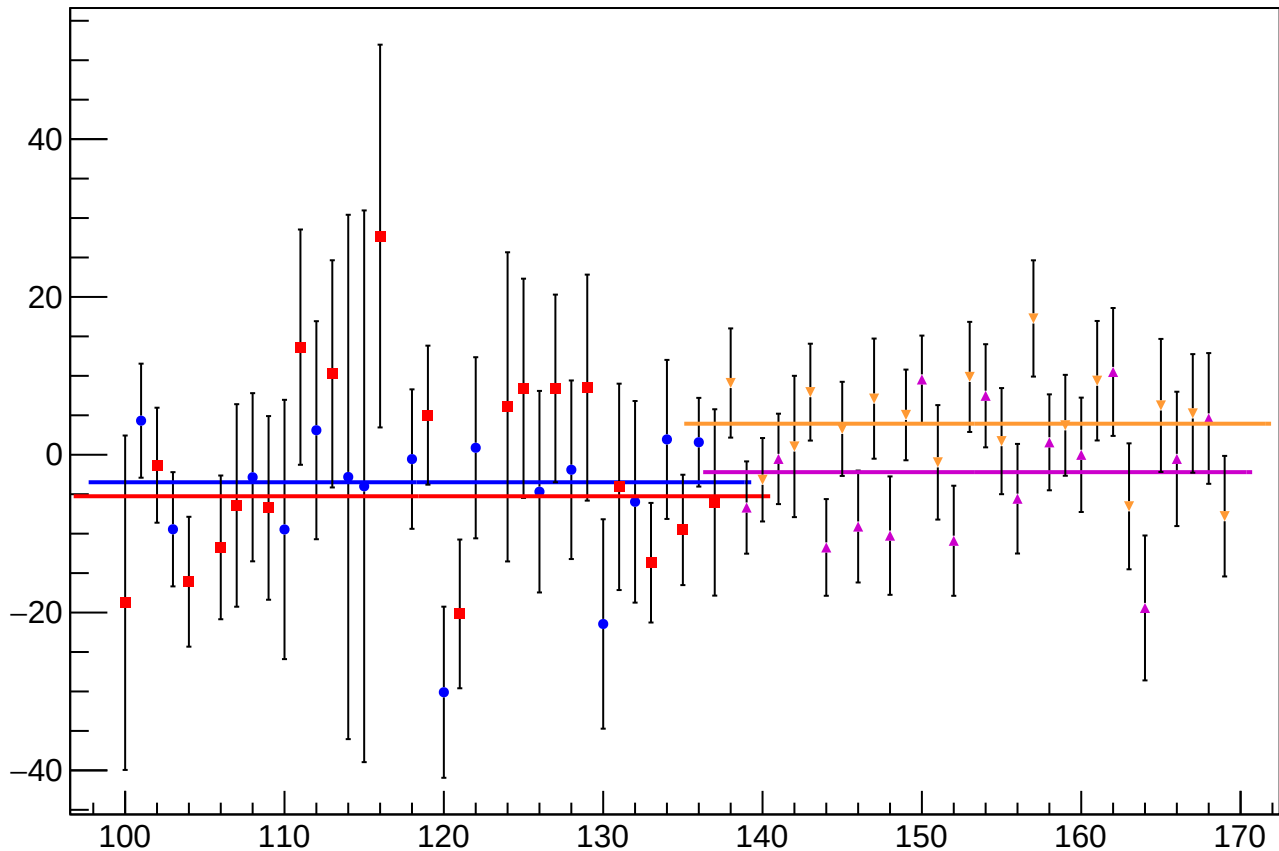
Right: 11861.399 +/- 2.251 χ^2/NDF : 1430140.0/34

In: 9209.873 +/- 1.510 χ^2/NDF : 1854412.1/30

Out: 9067.560 +/- 1.445 χ^2/NDF : 2183104.1/35

All: 9135.585 +/- 1.044 χ^2/NDF : 4042153.3/60

diff_targ_positionY_mean vs Slug, Sign Corrected



Right In: -3.485+/-2.550 χ^2/NDF : 11.5/15

Left Out: 3.934+/-1.672 χ^2/NDF :12.4/16

Right Out: -5.259+/-2.446 χ^2/NDF : 16.6/18

Left In: -2.205+/-1.761 χ^2/NDF :20.8/14

Left: 1.024+/-1.212 χ^2/NDF : 39.6/31

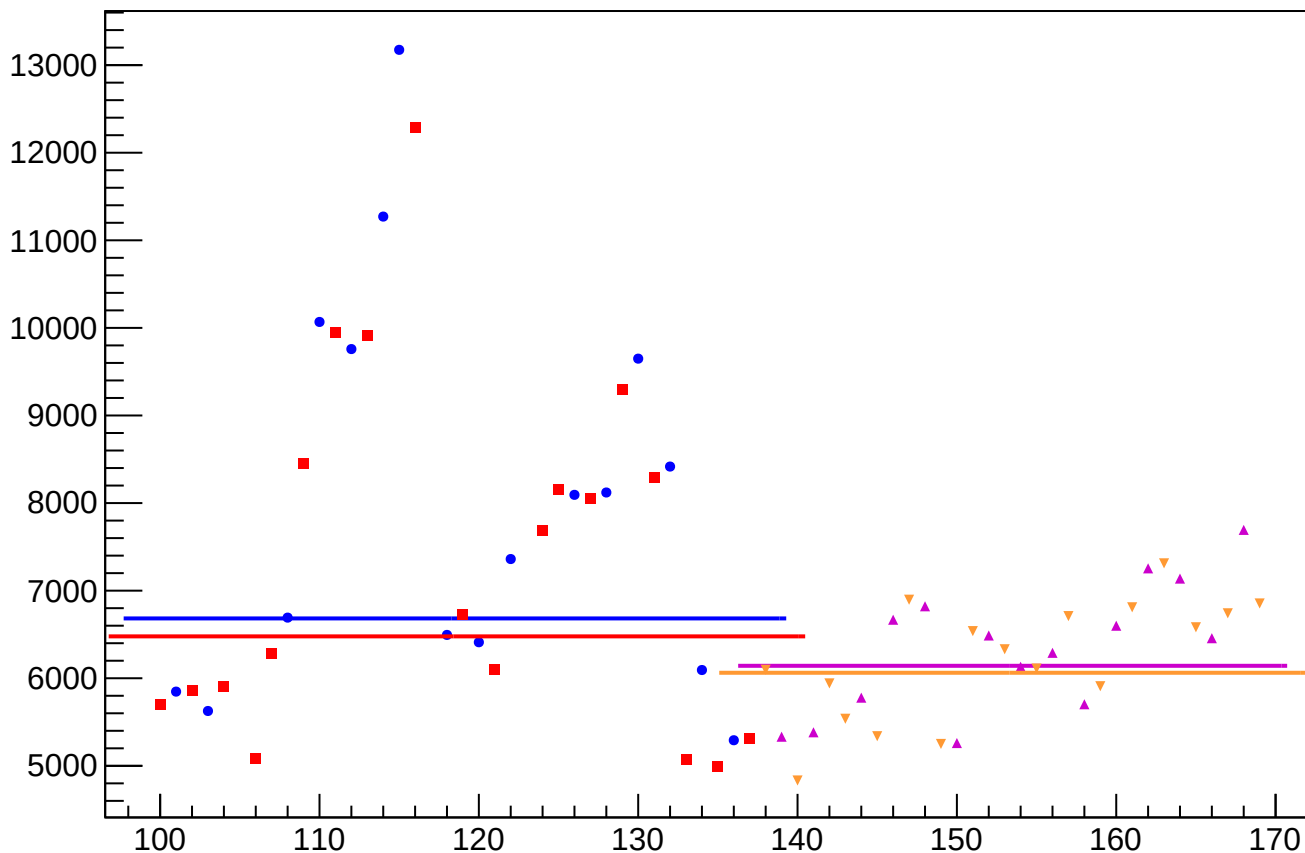
Right: -4.409+/-1.765 χ^2/NDF : 28.3/34

In: -2.618+/-1.449 χ^2/NDF :32.5/30

Out: 1.008+/-1.380 χ^2/NDF :38.6/35

All: -0.717+/-0.999 χ^2/NDF : 74.4/66

diff_targ_positionY_rms vs Slug, Sign Corrected



Right In: 6682.988 $\pm$ 1.803 χ^2 /NDF: 692200.2/15

Left Out: 6062.640 $\pm$ 1.182 χ^2 /NDF: 358822.1/16

Right Out: 6478.126 $\pm$ 1.730 χ^2 /NDF: 839226.8/18

Left In: 6142.134 $\pm$ 1.245 χ^2 /NDF: 316565.1/14

Left: 6100.323 $\pm$ 0.857 χ^2 /NDF: 677531.5/31

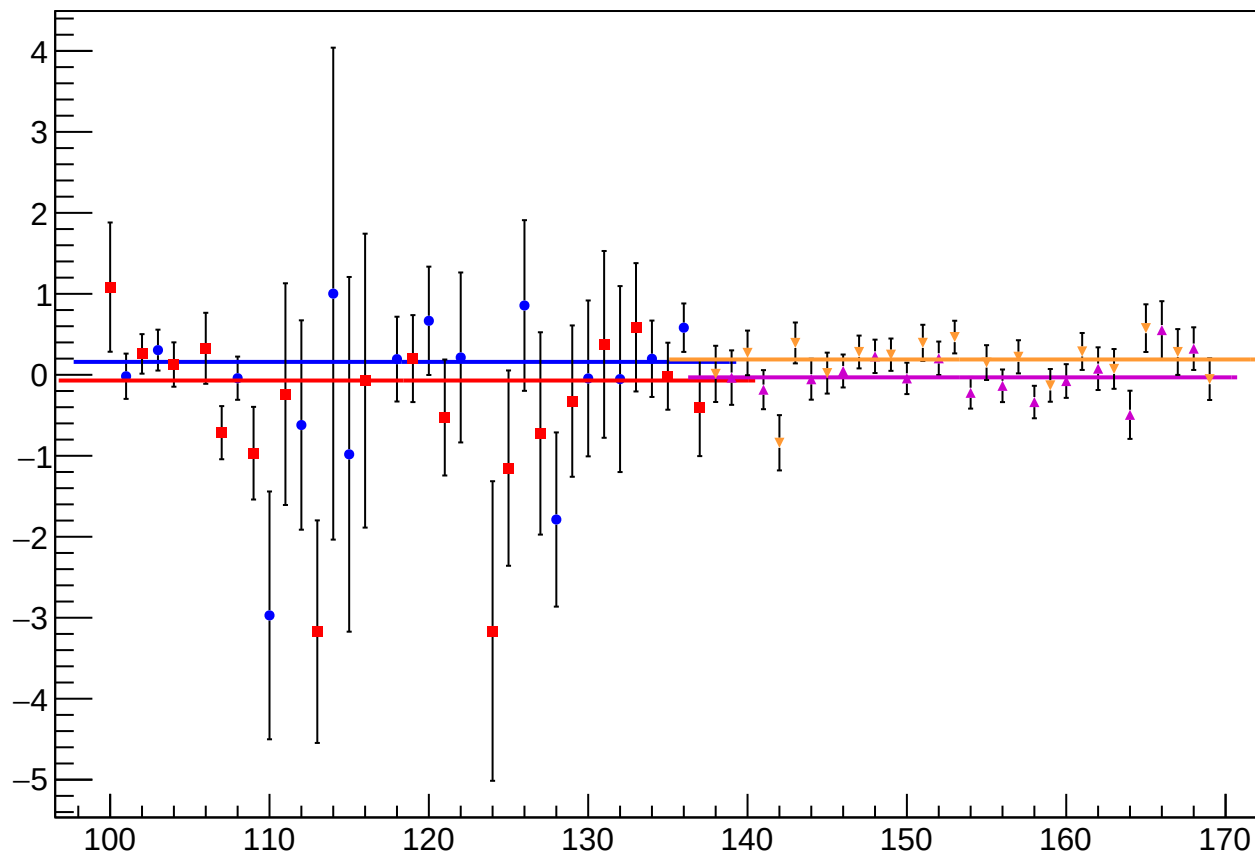
Right: 6576.323 $\pm$ 1.248 χ^2 /NDF: 1538150.0/34

In: 6316.779 $\pm$ 1.024 χ^2 /NDF: 1069702.6/30

Out: 6194.882 $\pm$ 0.976 χ^2 /NDF: 1237378.4/35

All: 6252.872 $\pm$ 0.707 χ^2 /NDF: 2314503.3/66

diff_targ_thetaX_mean vs Slug, Sign Corrected



Right In: 0.160 $\pm$ 0.120 χ^2/NDF : 12.6/15

Left Out: 0.190 $\pm$ 0.058 χ^2/NDF : 19.3/16

Right Out: -0.070 $\pm$ 0.120 χ^2/NDF : 22.5/18

Left In: -0.031 $\pm$ 0.059 χ^2/NDF : 14.1/14

Left: 0.082 $\pm$ 0.041 χ^2/NDF : 40.5/31

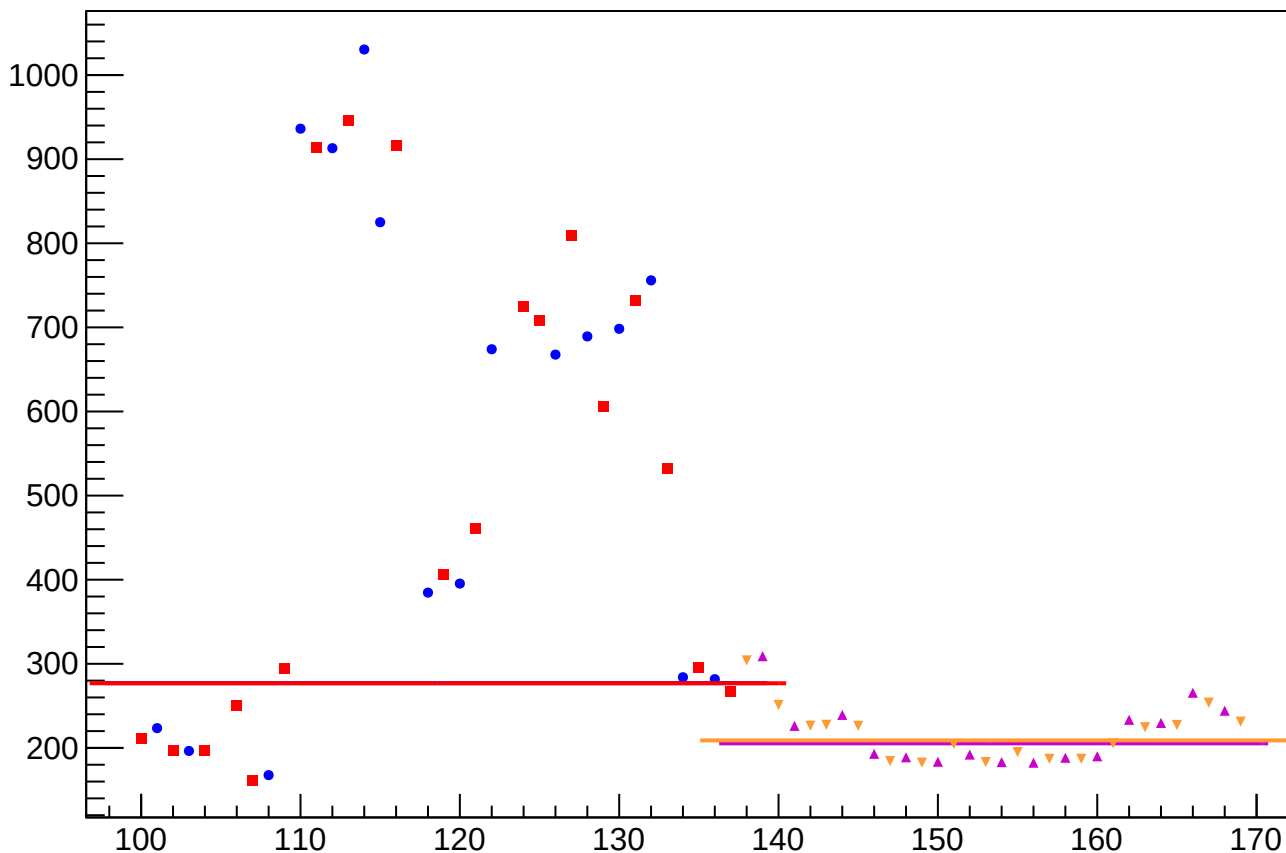
Right: 0.045 $\pm$ 0.085 χ^2/NDF : 36.9/34

In: 0.006 $\pm$ 0.053 χ^2/NDF : 28.7/30

Out: 0.141 $\pm$ 0.052 χ^2/NDF : 45.5/35

All: 0.075 $\pm$ 0.037 χ^2/NDF : 77.5/66

diff_targ_thetaX_rms vs Slug, Sign Corrected



Right In: 277.017 $\pm$ 0.085 χ^2 /NDF: 3450533.8/15

Left Out: 208.963 $\pm$ 0.041 χ^2 /NDF: 457423.3/16

Right Out: 276.866 $\pm$ 0.085 χ^2 /NDF: 3571620.7/18

Left In: 205.424 $\pm$ 0.042 χ^2 /NDF: 508394.6/14

Left: 207.237 $\pm$ 0.029 χ^2 /NDF: 969489.8/31

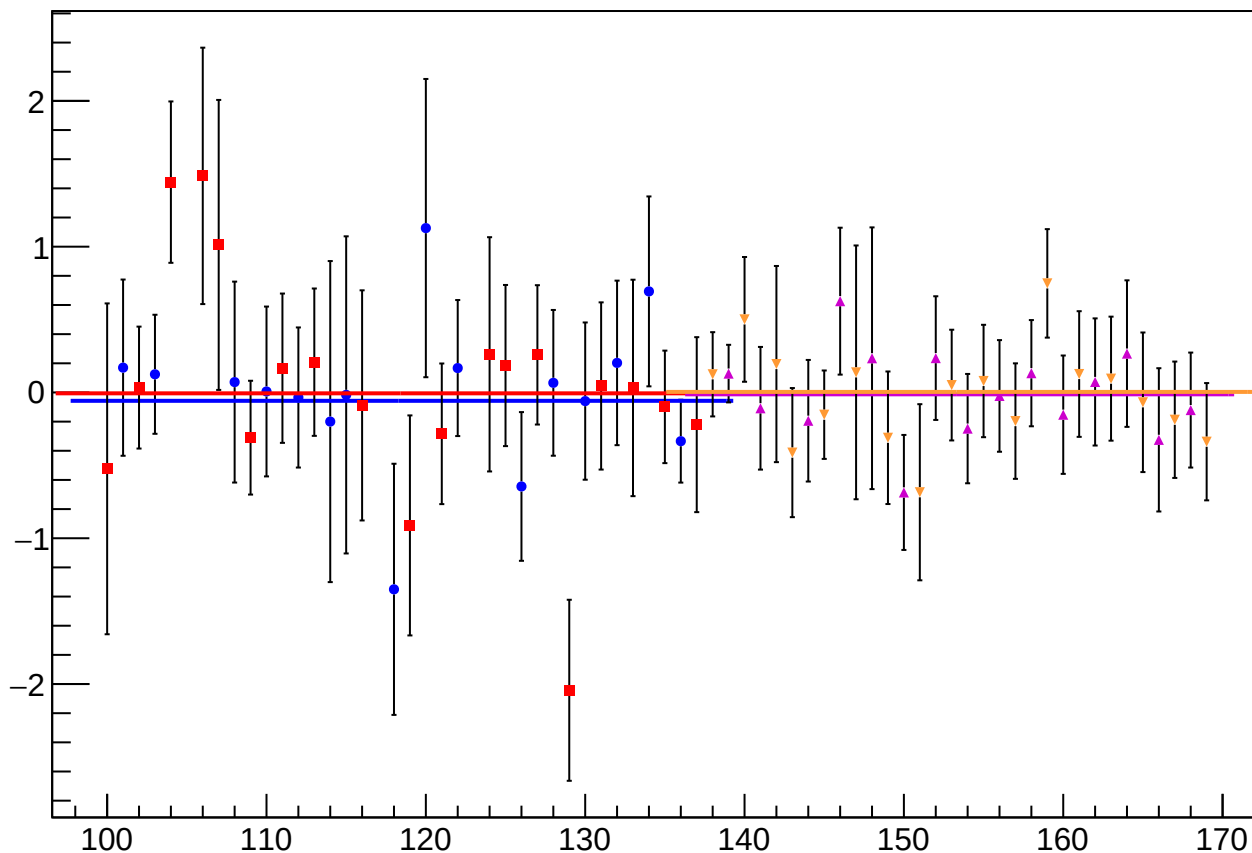
Right: 276.942 $\pm$ 0.060 χ^2 /NDF: 7022156.1/34

In: 219.486 $\pm$ 0.037 χ^2 /NDF: 4535004.8/30

Out: 221.766 $\pm$ 0.037 χ^2 /NDF: 4551302.8/35

All: 220.648 $\pm$ 0.026 χ^2 /NDF: 9088194.4/66

diff_targ_thetaY_mean vs Slug, Sign Corrected



Right In: -0.057 $\pm$ 0.134 χ^2/NDF : 8.1/15

Left Out: 0.004 $\pm$ 0.100 χ^2/NDF :10.0/16

Right Out: -0.006 $\pm$ 0.129 χ^2/NDF : 25.2/18

Left In: -0.013 $\pm$ 0.099 χ^2/NDF :7.2/14

Left: -0.005 $\pm$ 0.071 χ^2/NDF : 17.2/31

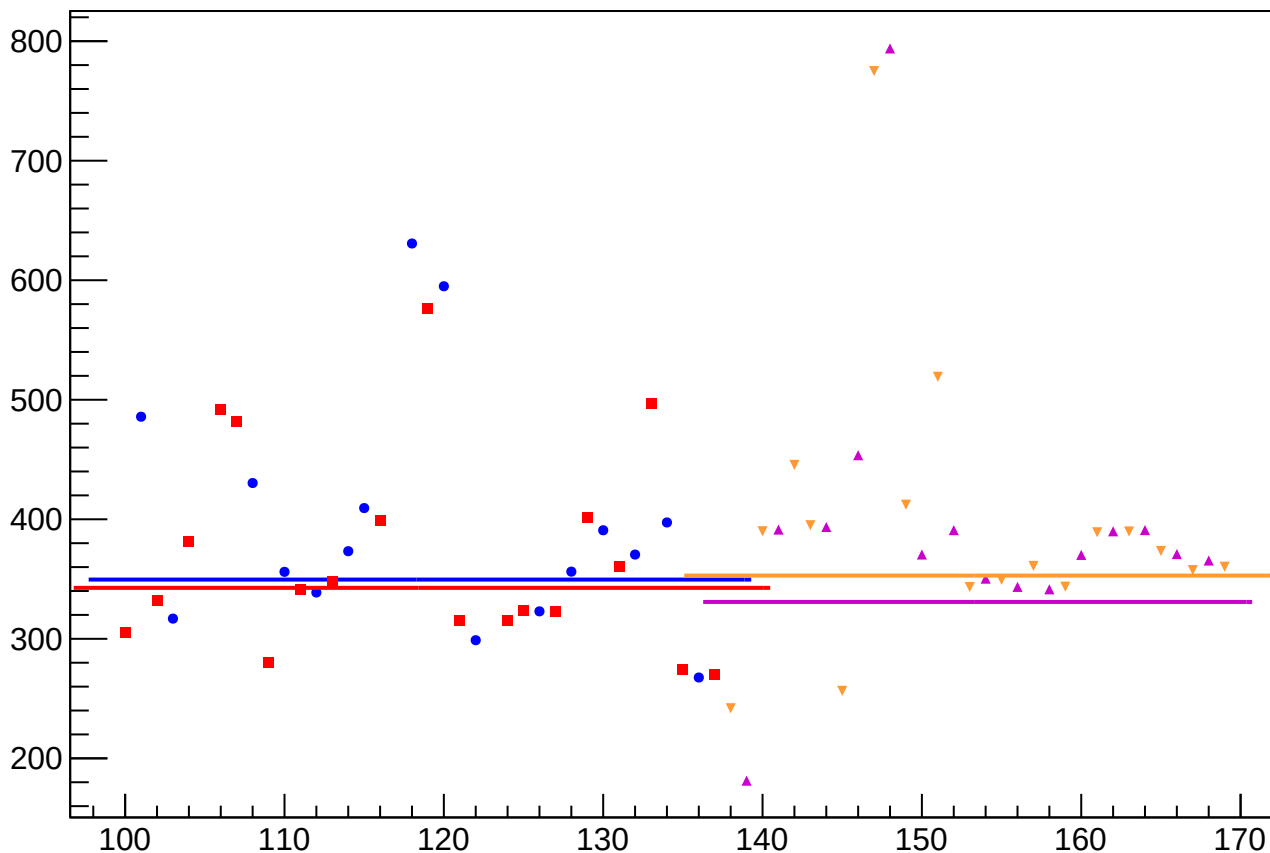
Right: -0.031 $\pm$ 0.093 χ^2/NDF : 33.4/34

In: -0.029 $\pm$ 0.080 χ^2/NDF :15.4/30

Out: 0.000 $\pm$ 0.079 χ^2/NDF :35.1/35

All: -0.014 $\pm$ 0.056 χ^2/NDF : 50.6/66

diff_targ_thetaY_rms vs Slug, Sign Corrected



Right In: 349.560+/-0.095 χ^2/NDF : 699303.9/15

Left Out: 352.903+/-0.071 χ^2/NDF : 1261745.6/16

Right Out: 342.641+/-0.091 χ^2/NDF : 575759.9/18

Left In: 330.843+/-0.070 χ^2/NDF : 2065785.3/14

Left: 341.763+/-0.050 χ^2/NDF : 3376442.8/31

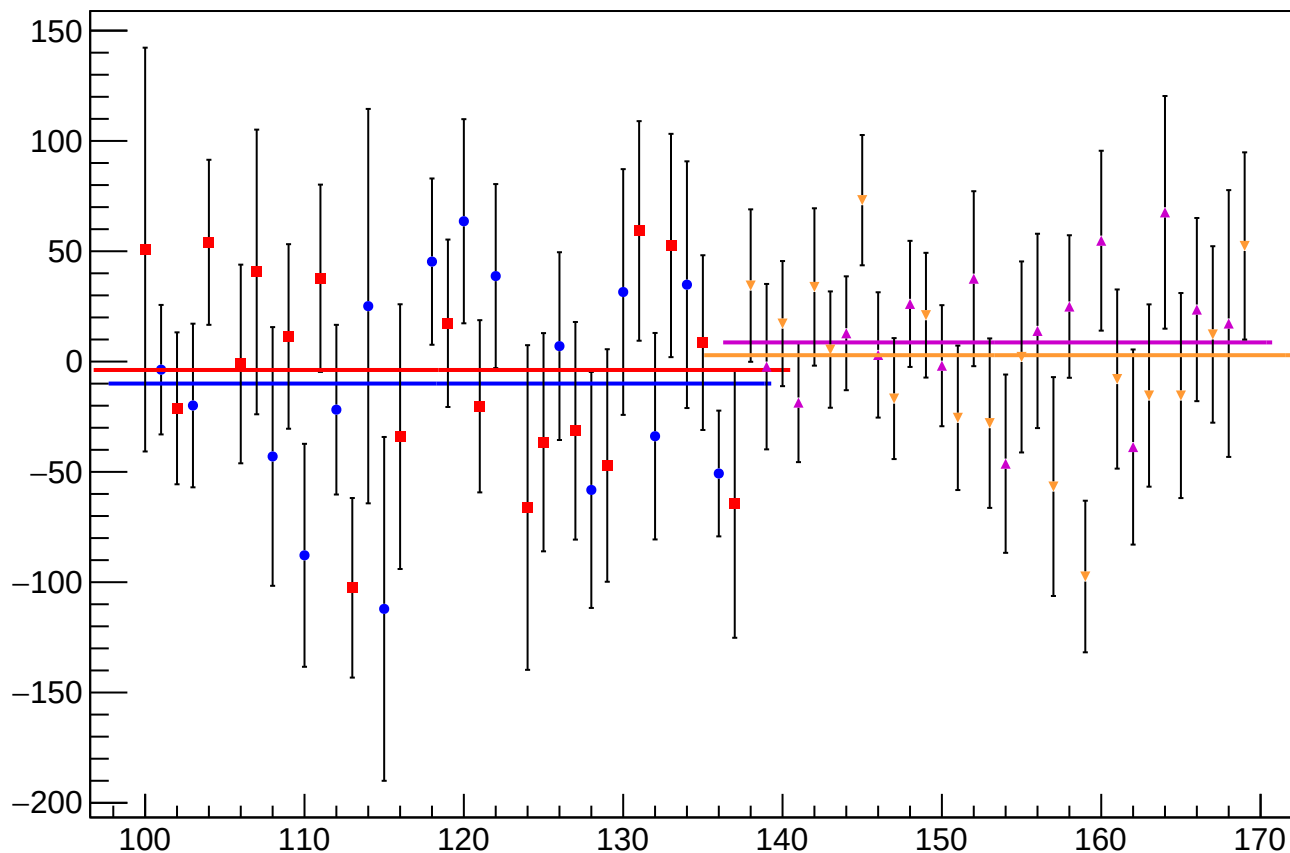
Right: 345.972+/-0.066 χ^2/NDF : 1277836.8/34

In: 337.486+/-0.056 χ^2/NDF : 2790335.3/30

Out: 349.037+/-0.056 χ^2/NDF : 1845401.7/35

All: 343.303+/-0.040 χ^2/NDF : 4656886.5/66

diff_bpmE_mean vs Slug, Sign Corrected



Right In: -9.969 $\pm$ 10.836 χ^2/NDF : 15.3/15

Left Out: 2.889 $\pm$ 8.371 χ^2/NDF : 21.6/16

Right Out: -3.814 $\pm$ 10.636 χ^2/NDF : 17.3/18

Left In: 8.678 $\pm$ 8.970 χ^2/NDF : 8.2/14

Left: 5.584 $\pm$ 6.120 χ^2/NDF : 30.0/31

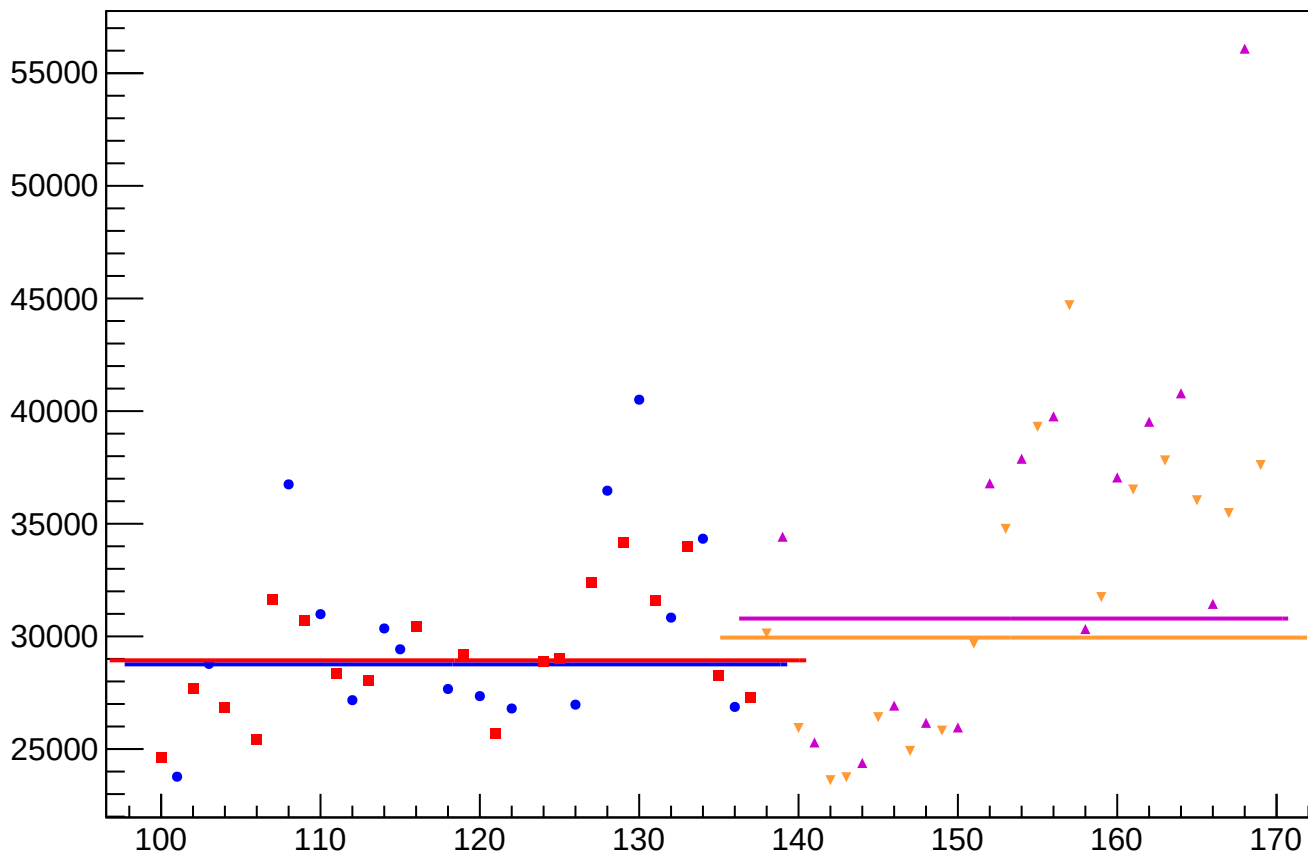
Right: -6.834 $\pm$ 7.591 χ^2/NDF : 32.8/34

In: 1.096 $\pm$ 6.910 χ^2/NDF : 25.2/30

Out: 0.325 $\pm$ 6.578 χ^2/NDF : 39.2/35

All: 0.692 $\pm$ 4.764 χ^2/NDF : 64.4/66

diff_bpmE_rms vs Slug, Sign Corrected



Right In: 28759.090 $\pm$ 7.662

χ^2 /NDF: 277639.9/15

Left Out: 29946.685 $\pm$ 5.919

χ^2 /NDF: 922753.1/16

Right Out: 28937.633 $\pm$ 7.521

χ^2 /NDF: 106266.0/18

Left In: 30792.324 $\pm$ 6.343

χ^2 /NDF: 1115583.1/14

Left: 30340.327 $\pm$ 4.328

χ^2 /NDF: 2047837.0/31

Right: 28850.024 $\pm$ 5.367

χ^2 /NDF: 384182.4/34

In: 29965.598 $\pm$ 4.886

χ^2 /NDF: 1435004.9/30

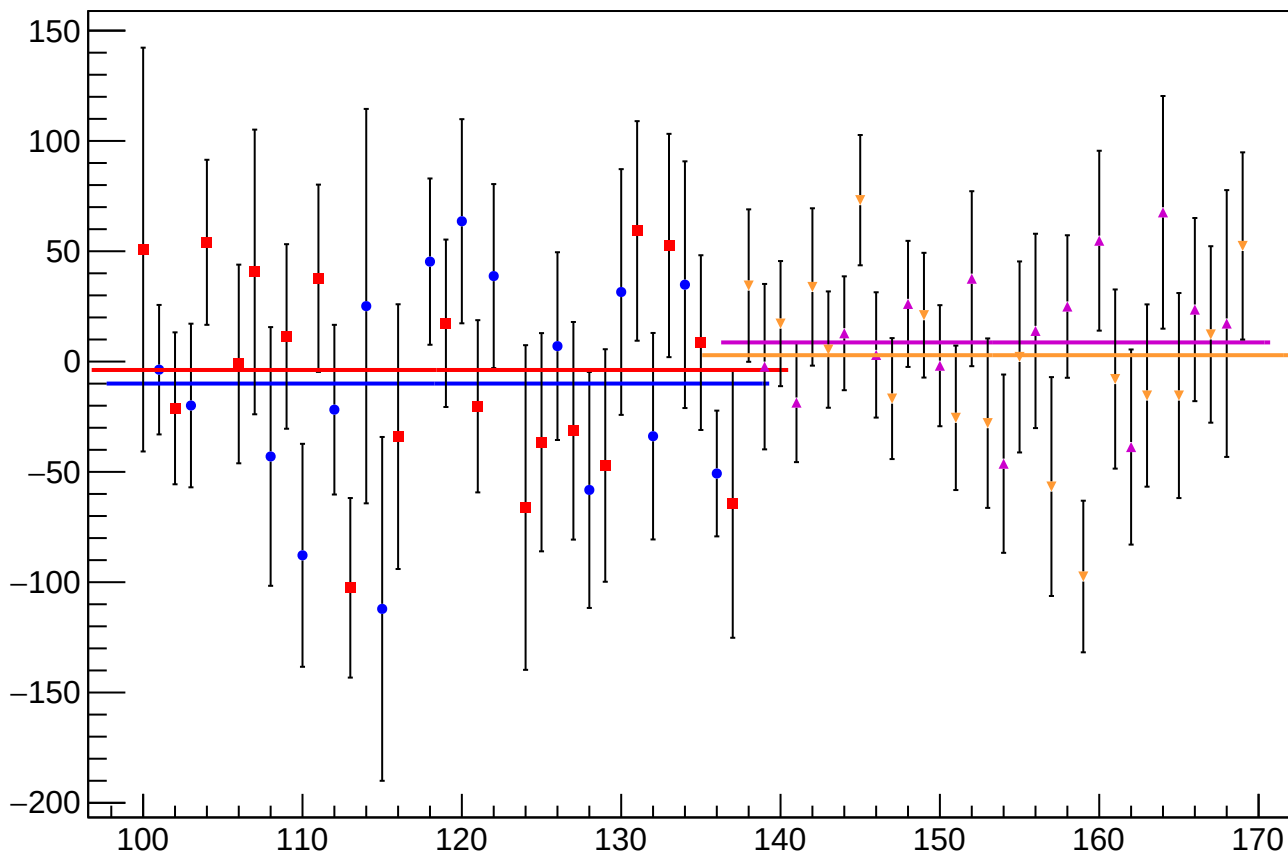
Out: 29560.729 $\pm$ 4.651

χ^2 /NDF: 1040134.4/35

All: 29753.212 $\pm$ 3.369

χ^2 /NDF: 2478741.3/6

diff_bpmEX_mean vs Slug, Sign Corrected



Right In: -9.969+/-10.836 χ^2/NDF : 15.3/15

Left Out: 2.889+/-8.371 χ^2/NDF : 21.6/16

Right Out: -3.814+/-10.636 χ^2/NDF : 17.3/18

Left In: 8.678+/-8.970 χ^2/NDF : 8.2/14

Left: 5.584+/-6.120 χ^2/NDF : 30.0/31

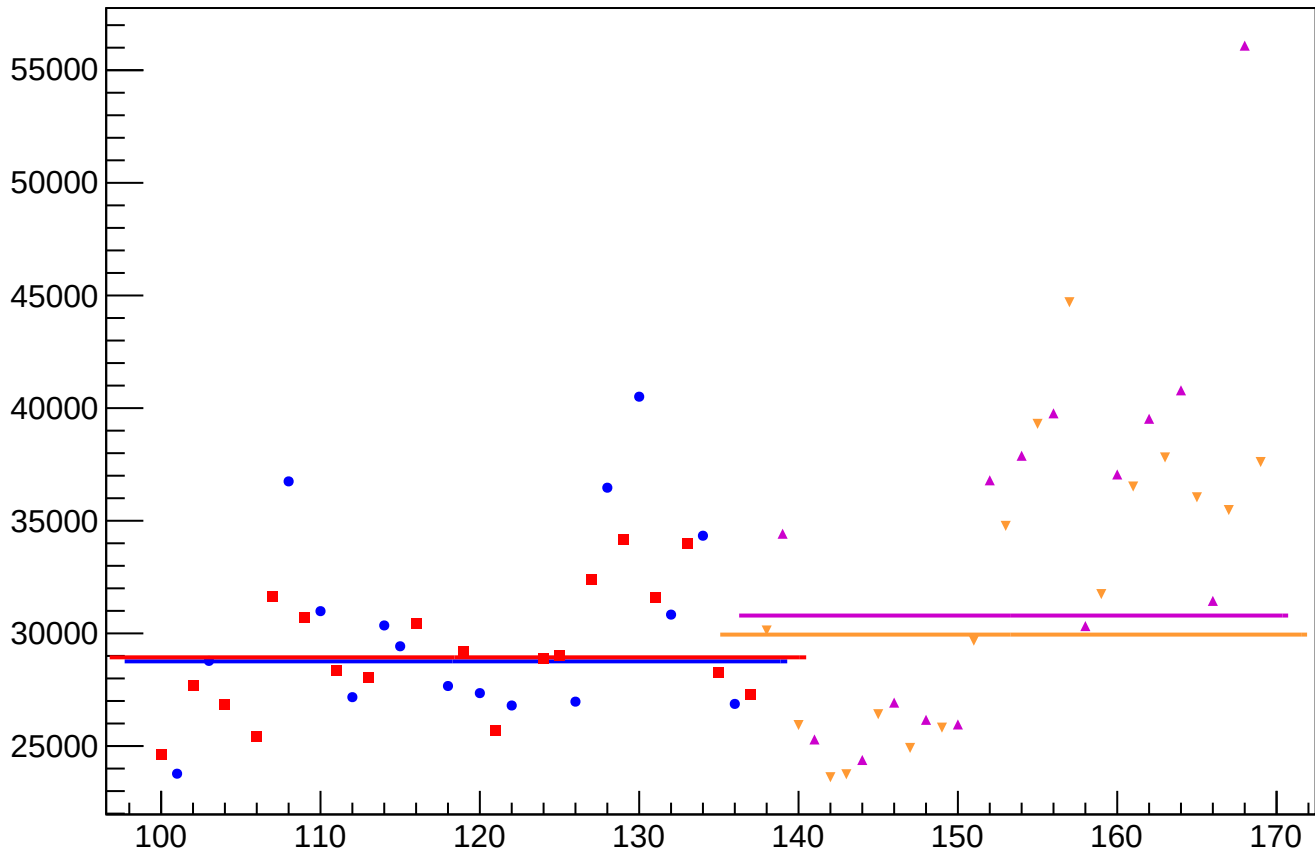
Right: -6.834+/-7.591 χ^2/NDF : 32.8/34

In: 1.096+/-6.910 χ^2/NDF : 25.2/30

Out: 0.325+/-6.578 χ^2/NDF : 39.2/35

All: 0.692+/-4.764 χ^2/NDF : 64.4/66

diff_bpmEX_rms vs Slug, Sign Corrected



Right In: 28759.090 $\pm$ 7.662 χ^2 /NDF: 277639.9/15

Left Out: 29946.685 $\pm$ 5.919 χ^2 /NDF: 922753.1/16

Right Out: 28937.633 $\pm$ 7.521 χ^2 /NDF: 106266.0/18

Left In: 30792.324 $\pm$ 6.343 χ^2 /NDF: 1115583.1/14

Left: 30340.327 $\pm$ 4.328 χ^2 /NDF: 2047837.0/31

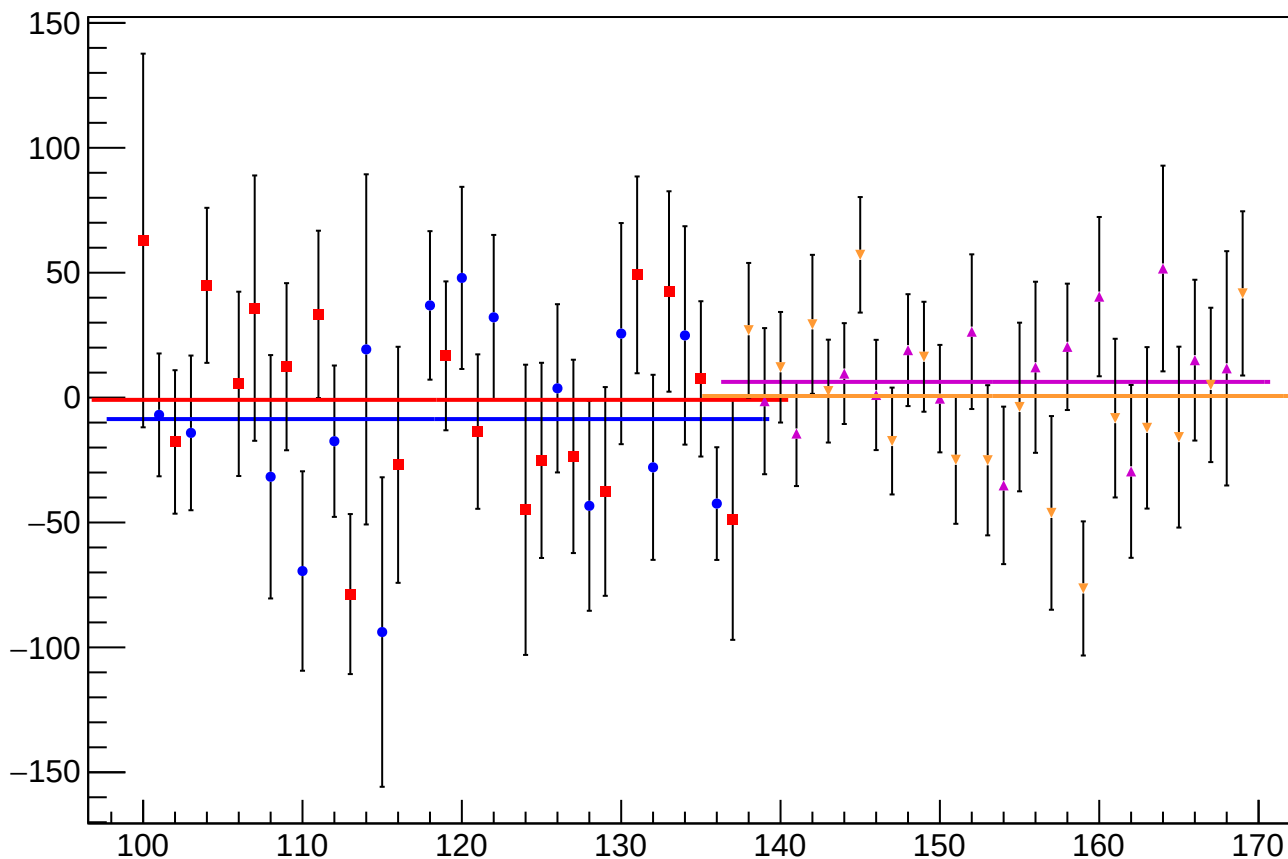
Right: 28850.024 $\pm$ 5.367 χ^2 /NDF: 384182.4/34

In: 29965.598 $\pm$ 4.886 χ^2 /NDF: 1435004.9/30

Out: 29560.729 $\pm$ 4.651 χ^2 /NDF: 1040134.4/35

All: 29753.212 $\pm$ 3.369 χ^2 /NDF: 2478741.3/6

diff_bpmE_11X12X_mean vs Slug, Sign Corrected



Right In: -8.599 ± 8.678 χ^2/NDF : 15.5/15

Left Out: 0.641 ± 6.533 χ^2/NDF : 22.9/16

Right Out: -0.904 ± 8.506 χ^2/NDF : 17.6/18

Left In: 6.288 ± 7.004 χ^2/NDF : 7.5/14

Left: 3.268 ± 4.777 χ^2/NDF : 30.8/31

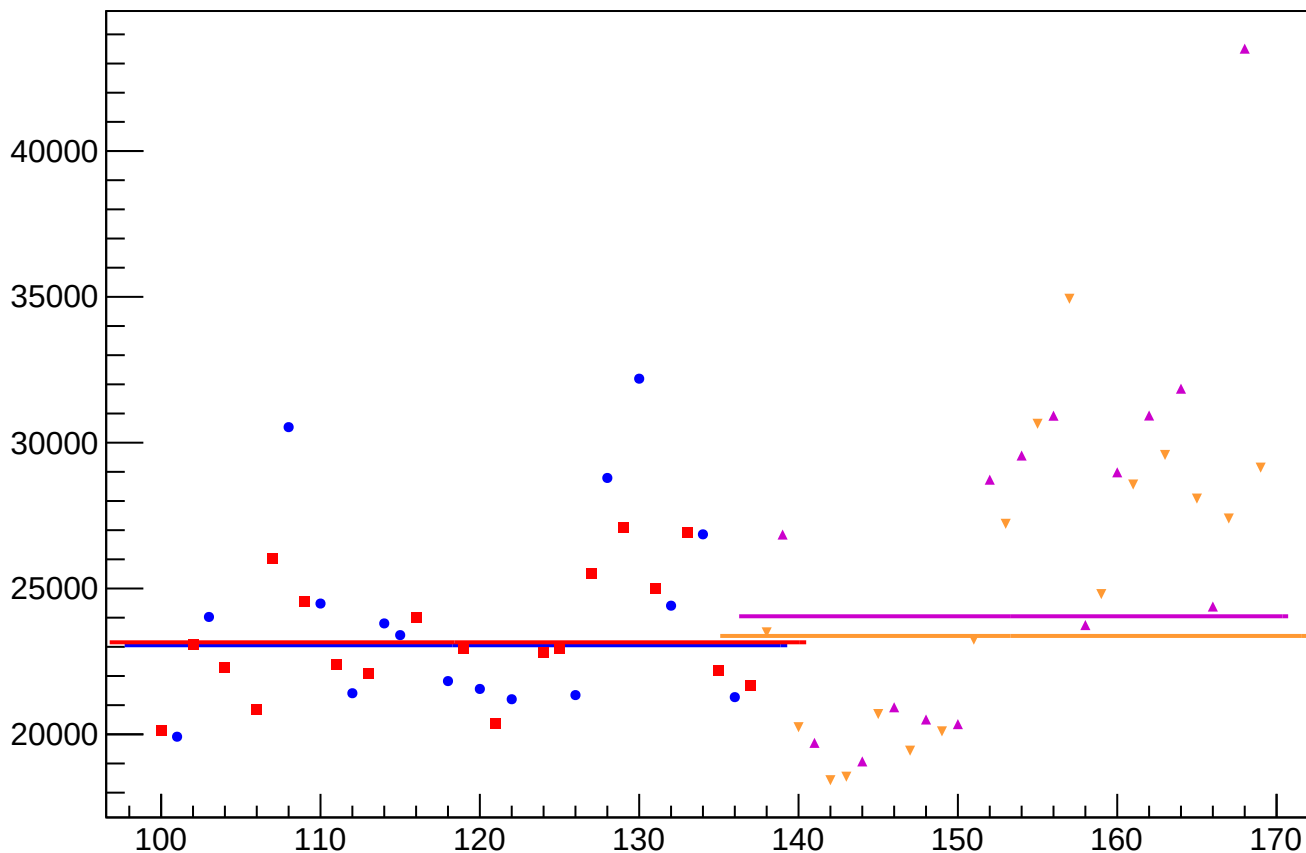
Right: -4.674 ± 6.075 χ^2/NDF : 33.5/34

In: 0.416 ± 5.450 χ^2/NDF : 24.8/30

Out: 0.068 ± 5.181 χ^2/NDF : 40.6/35

All: 0.233 ± 3.755 χ^2/NDF : 65.4/66

diff_bpmE_11X12X_rms vs Slug, Sign Corrected



Right In: 23053.910 ± 6.137 $\chi^2/\text{NDF}: 261444.9/15$

Left Out: 23373.301 ± 4.619 $\chi^2/\text{NDF}: 917571.4/16$

Right Out: 23155.251 ± 6.015 $\chi^2/\text{NDF}: 93894.1/18$

Left In: 24047.682 ± 4.953 $\chi^2/\text{NDF}: 1105457.3/14$

Left: 23687.042 ± 3.378 $\chi^2/\text{NDF}: 2032944.4/31$

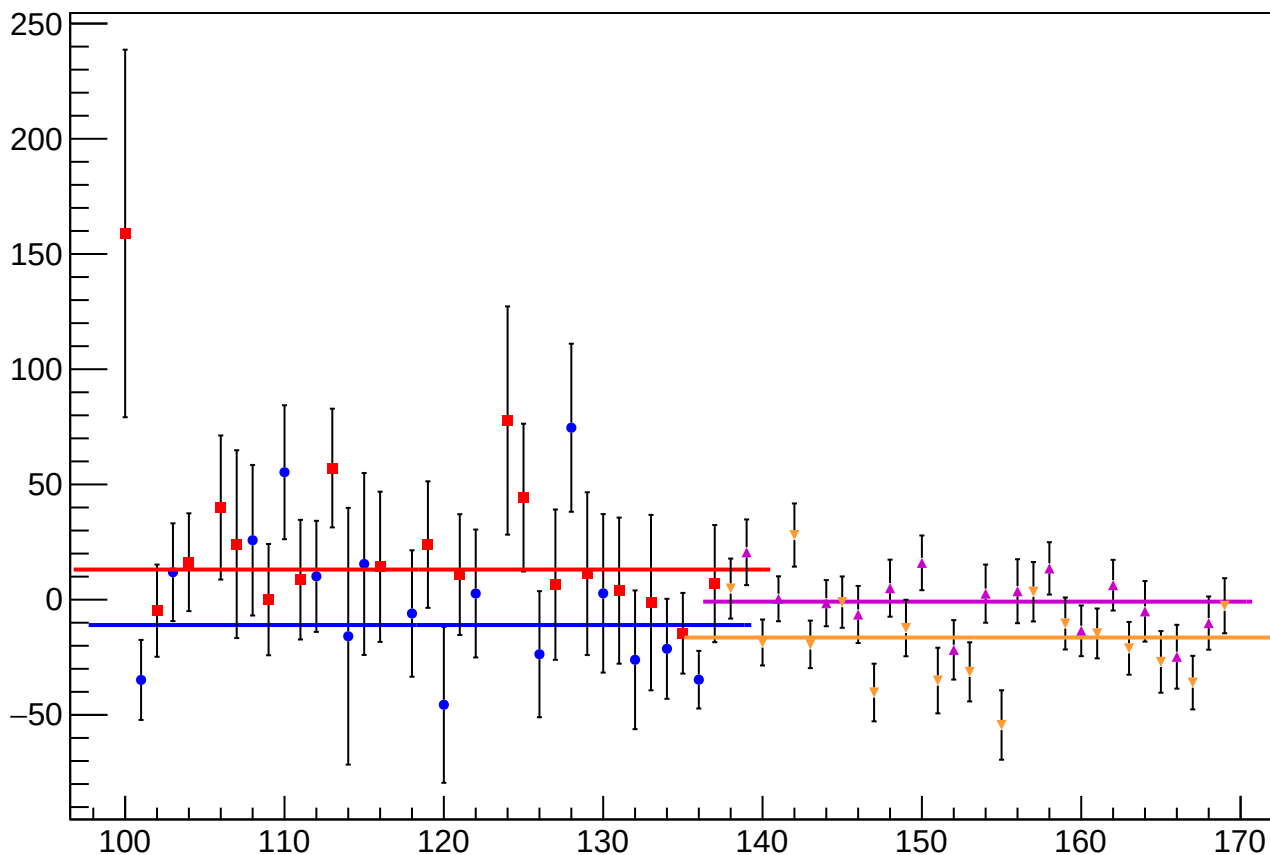
Right: 23105.598 ± 4.295 $\chi^2/\text{NDF}: 355478.0/34$

In: 23655.711 ± 3.854 $\chi^2/\text{NDF}: 1382783.5/30$

Out: 23292.402 ± 3.664 $\chi^2/\text{NDF}: 1012292.2/35$

All: 23464.857 ± 2.655 $\chi^2/\text{NDF}: 2399744.0/66$

diff_bpm4aesumX_mean vs Slug, Sign Corrected



Right In: -11.002 ± 6.155 χ^2/NDF : 22.0/15

Left Out: -16.424 ± 2.920 χ^2/NDF : 36.0/16

Right Out: 13.071 ± 6.382 χ^2/NDF : 13.9/18

Left In: -0.854 ± 3.074 χ^2/NDF : 14.6/14

Left: -9.039 ± 2.117 χ^2/NDF : 64.1/31

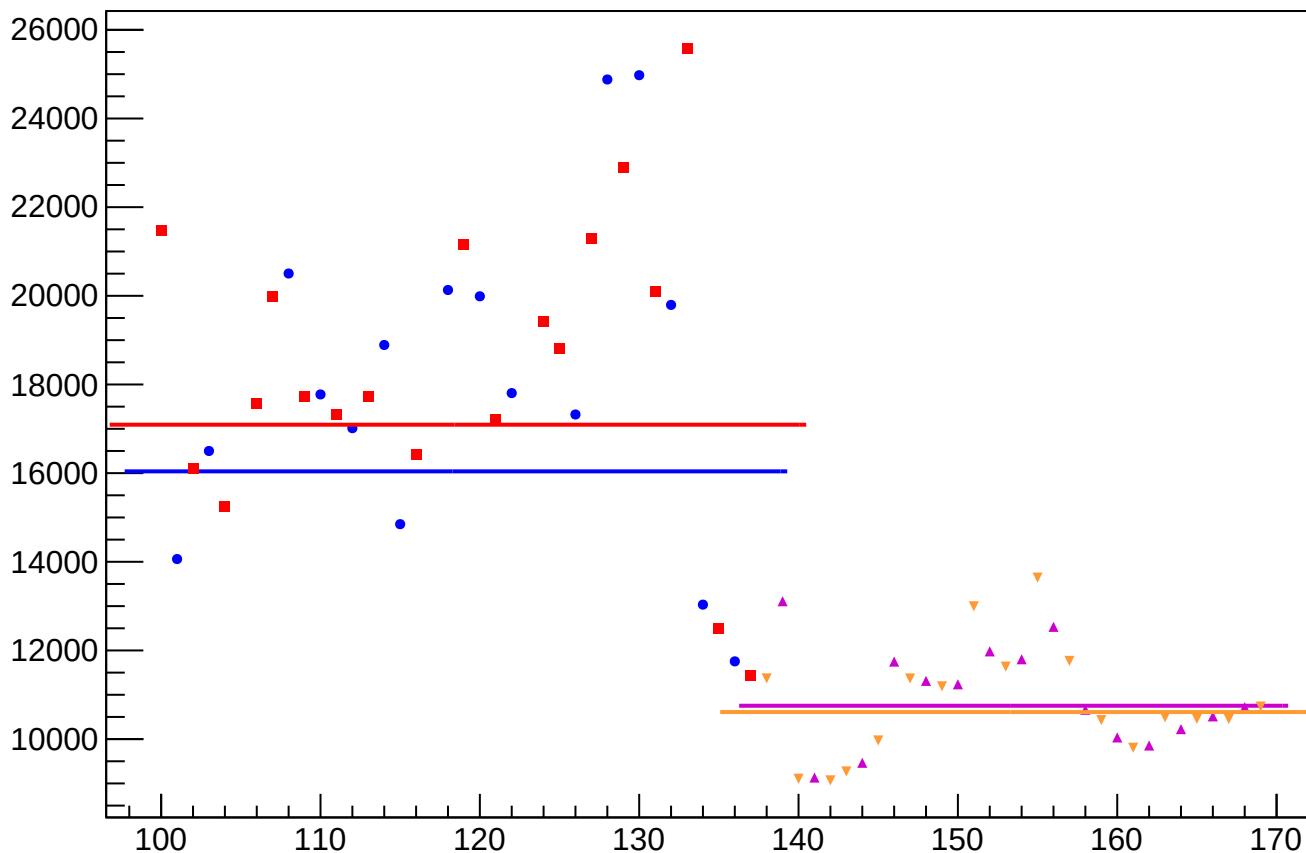
Right: 0.599 ± 4.430 χ^2/NDF : 43.3/34

In: -2.880 ± 2.750 χ^2/NDF : 38.8/30

Out: -11.318 ± 2.655 χ^2/NDF : 67.6/35

All: -7.247 ± 1.910 χ^2/NDF : 111.3/66

diff_bpm4aesumX_rms vs Slug, Sign Corrected



Right In: 16040.060 $\pm$ 4.352 χ^2/NDF : 722678.9/15

Left Out: 10610.569 $\pm$ 2.065 χ^2/NDF : 308495.2/16

Right Out: 17092.658 $\pm$ 4.513 χ^2/NDF : 535464.0/18

Left In: 10752.701 $\pm$ 2.174 χ^2/NDF : 253760.0/14

Left: 10677.980 $\pm$ 1.497 χ^2/NDF : 564502.7/31

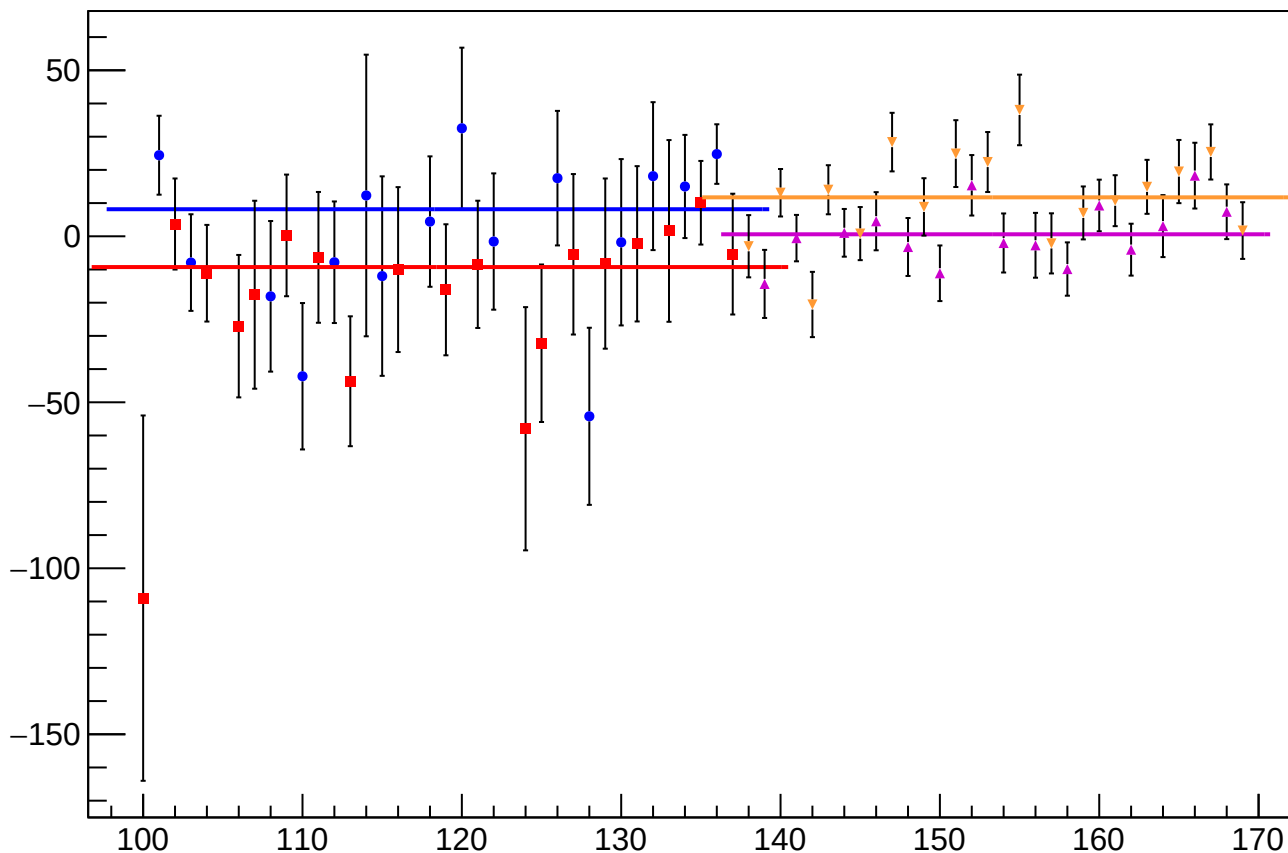
Right: 16547.306 $\pm$ 3.133 χ^2/NDF : 1286331.2/34

In: 11808.401 $\pm$ 1.945 χ^2/NDF : 2157674.0/30

Out: 11732.648 $\pm$ 1.878 χ^2/NDF : 2550082.2/35

All: 11769.193 $\pm$ 1.351 χ^2/NDF : 4708541.5/6

diff_bpm4aediiffX_mean vs Slug, Sign Corrected



Right In: 8.150 $\pm$ 4.423 χ^2/NDF : 21.8/15

Left Out: 11.730 $\pm$ 2.077 χ^2/NDF : 35.8/16

Right Out: -9.270 $\pm$ 4.607 χ^2/NDF : 13.9/18

Left In: 0.604 $\pm$ 2.184 χ^2/NDF : 14.6/14

Left: 6.444 $\pm$ 1.505 χ^2/NDF : 64.0/31

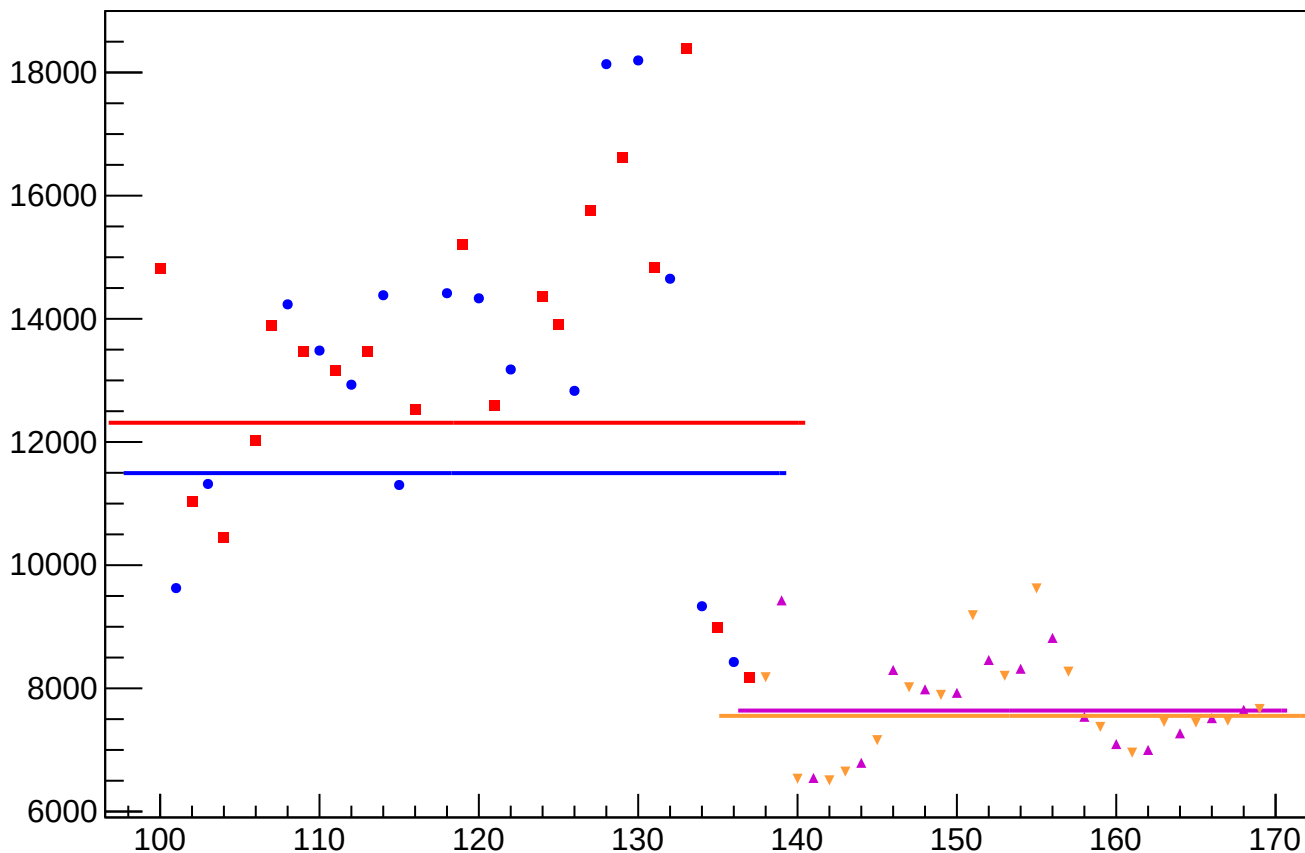
Right: -0.204 $\pm$ 3.191 χ^2/NDF : 43.1/34

In: 2.083 $\pm$ 1.958 χ^2/NDF : 38.7/30

Out: 8.182 $\pm$ 1.894 χ^2/NDF : 66.9/35

All: 5.234 $\pm$ 1.361 χ^2/NDF : 110.6/66

diff_bpm4aediX_rms vs Slug, Sign Corrected



Right In: 11494.969 $\pm$ 3.127 χ^2 /NDF: 789990.1/15

Left Out: 7553.313 $\pm$ 1.469 χ^2 /NDF: 281490.8/16

Right Out: 12312.550 $\pm$ 3.258 χ^2 /NDF: 598755.3/18

Left In: 7639.463 $\pm$ 1.544 χ^2 /NDF: 238602.8/14

Left: 7594.246 $\pm$ 1.064 χ^2 /NDF: 521727.7/31

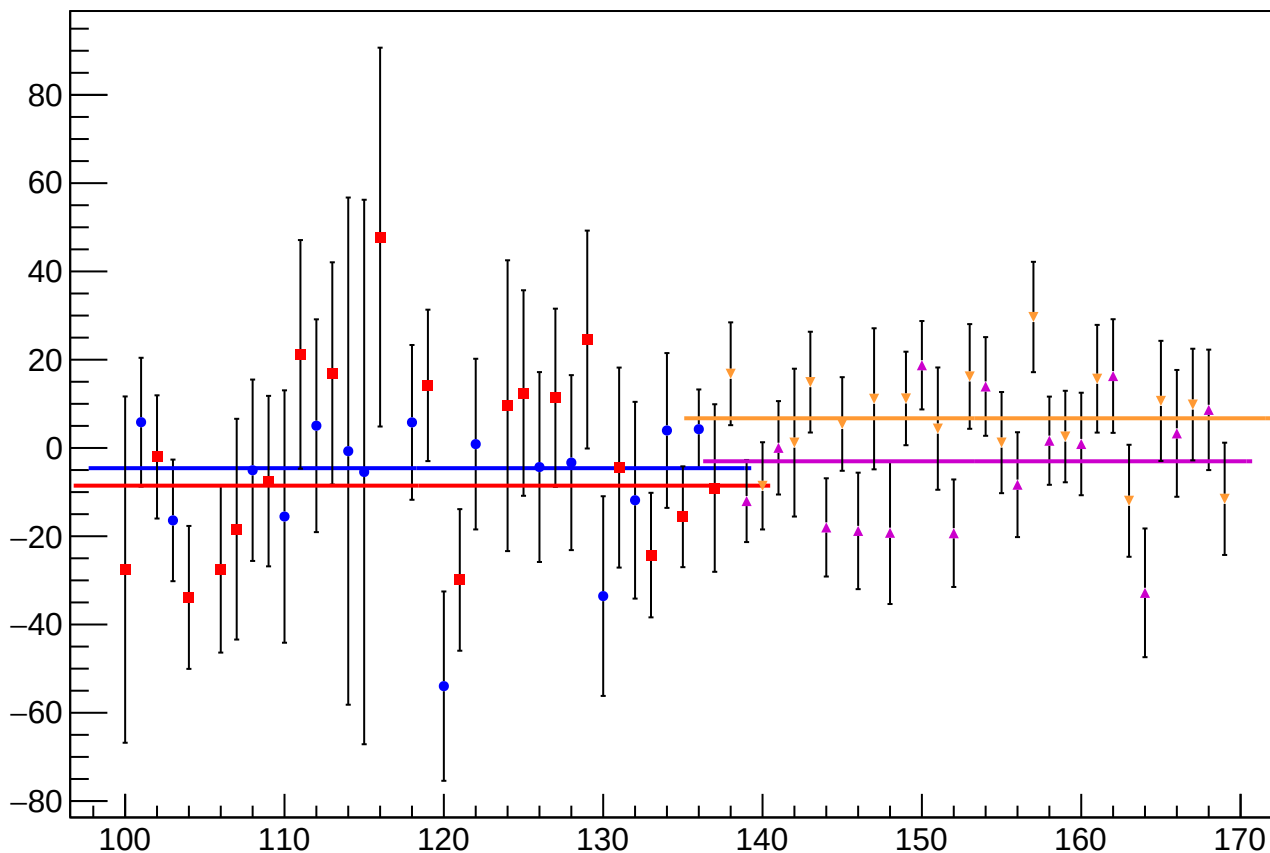
Right: 11887.075 $\pm$ 2.256 χ^2 /NDF: 1421522.1/34

In: 8395.012 $\pm$ 1.384 χ^2 /NDF: 2250580.1/30

Out: 8357.493 $\pm$ 1.339 χ^2 /NDF: 2653819.0/35

All: 8375.629 $\pm$ 0.963 χ^2 /NDF: 4904778.6/66

diff_bpm4aesumY_mean vs Slug, Sign Corrected



Right In: -4.578 $\pm$ 4.554 χ^2/NDF : 10.2/15

Left Out: 6.726 $\pm$ 2.924 χ^2/NDF :13.4/16

Right Out: -8.537 $\pm$ 4.392 χ^2/NDF : 17.2/18

Left In: -3.017 $\pm$ 3.038 χ^2/NDF :22.0/14

Left: 2.042 $\pm$ 2.107 χ^2/NDF : 40.7/31

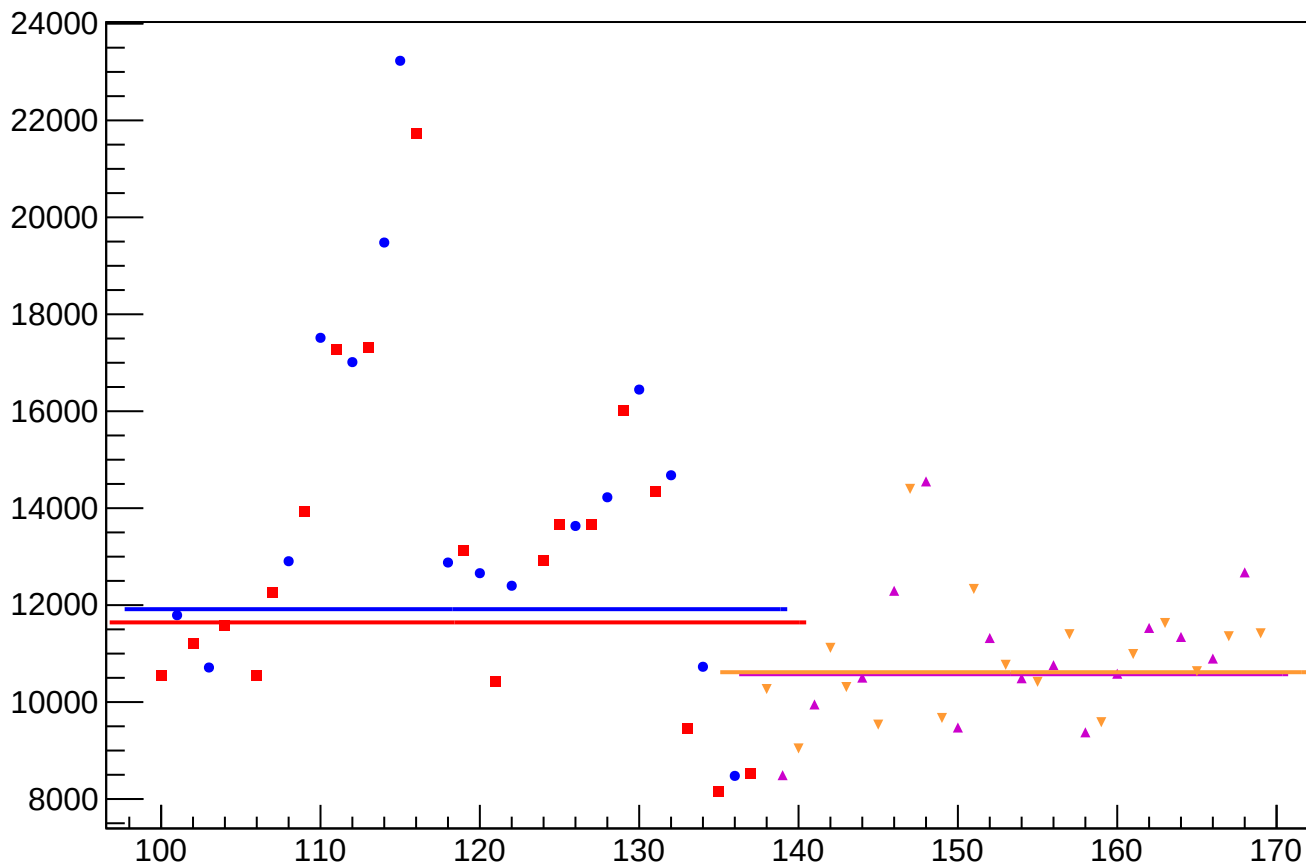
Right: -6.629 $\pm$ 3.161 χ^2/NDF : 27.8/34

In: -3.498 $\pm$ 2.527 χ^2/NDF :32.3/30

Out: 2.039 $\pm$ 2.434 χ^2/NDF :38.9/35

All: -0.625 $\pm$ 1.753 χ^2/NDF : 73.7/66

diff_bpm4aesumY_rms vs Slug, Sign Corrected



Right In: 11916.355+/-3.220 χ^2/NDF : 749775.2/15

Left Out: 10616.094+/-2.068 χ^2/NDF : 293227.6/16

Right Out: 11643.622+/-3.106 χ^2/NDF : 790359.6/18

Left In: 10574.572+/-2.148 χ^2/NDF : 388640.0/14

Left: 10596.129+/-1.490 χ^2/NDF : 682061.6/31

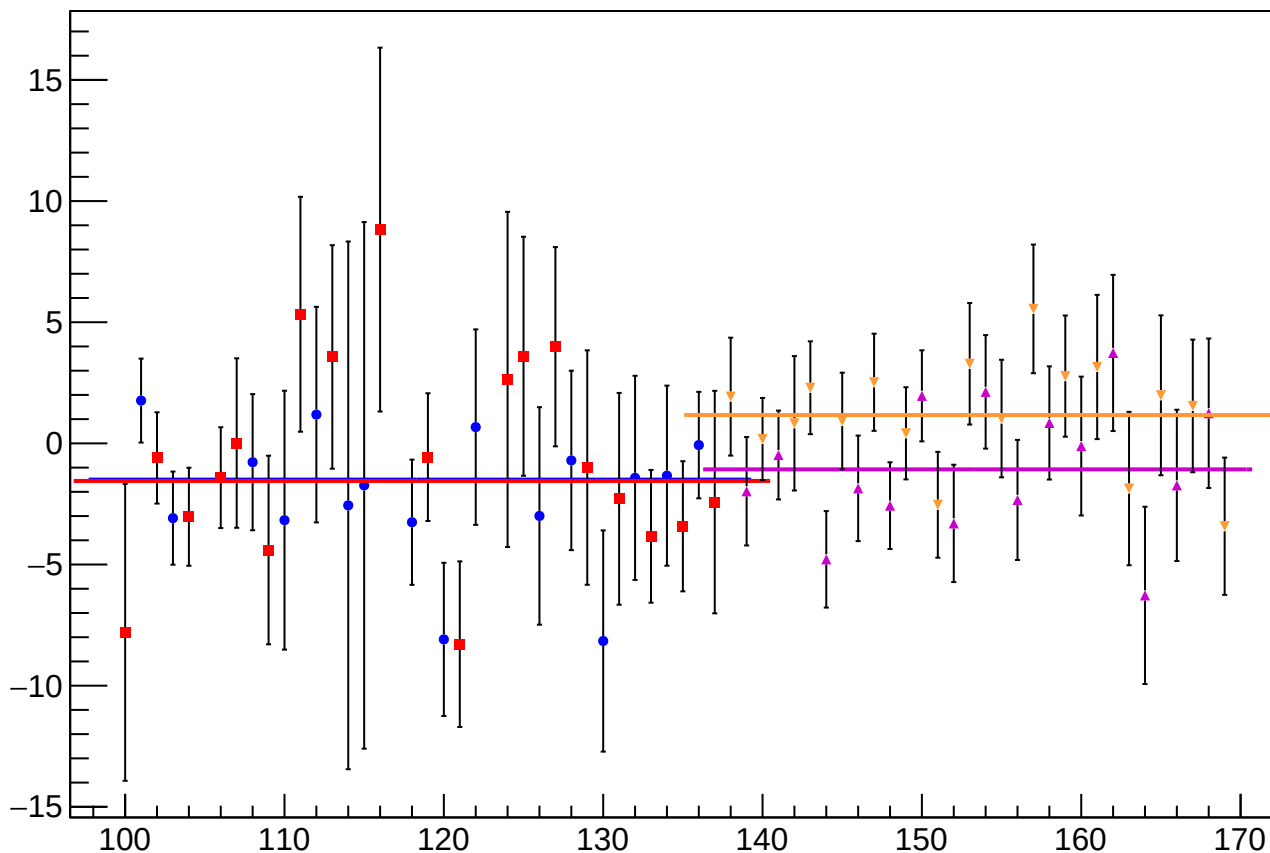
Right: 11775.058+/-2.235 χ^2/NDF : 1543851.0/34

In: 10987.872+/-1.787 χ^2/NDF : 1258555.7/30

Out: 10931.635+/-1.721 χ^2/NDF : 1159429.9/35

All: 10958.694+/-1.240 χ^2/NDF : 2418499.4/6

diff_bpm4aediY_mean vs Slug, Sign Corrected



Right In: -1.496 ± 0.778 χ^2/NDF : 12.6/15

Left Out: 1.170 ± 0.568 χ^2/NDF : 12.2/16

Right Out: -1.551 ± 0.745 χ^2/NDF : 16.3/18

Left In: -1.073 ± 0.602 χ^2/NDF : 15.8/14

Left: 0.114 ± 0.413 χ^2/NDF : 35.3/31

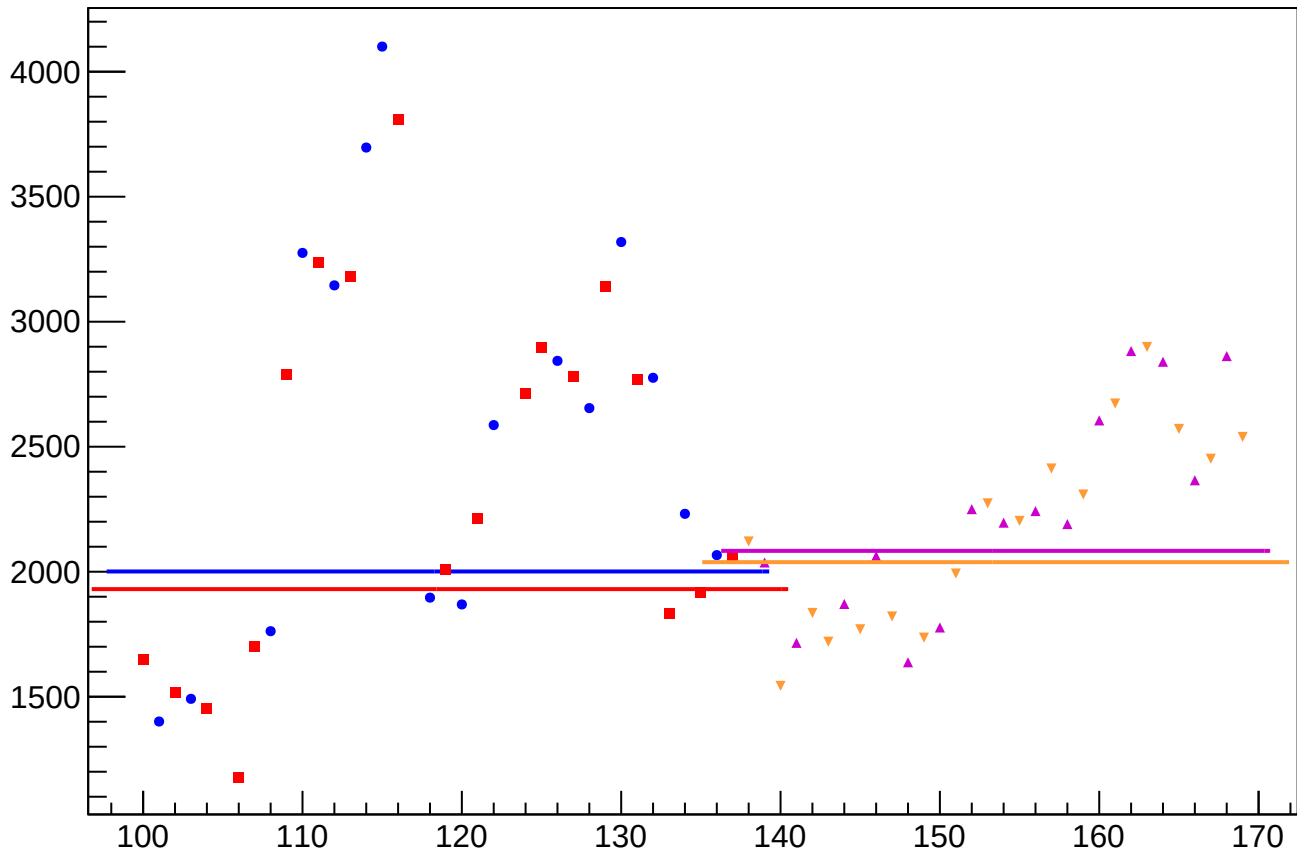
Right: -1.525 ± 0.538 χ^2/NDF : 28.9/34

In: -1.231 ± 0.476 χ^2/NDF : 28.6/30

Out: 0.169 ± 0.452 χ^2/NDF : 36.9/35

All: -0.494 ± 0.328 χ^2/NDF : 70.0/66

diff_bpm4aediY_rms vs Slug, Sign Corrected



Right In: 2001.000+/-0.550 χ^2/NDF : 1189784.2/15

Left Out: 2038.277+/-0.402 χ^2/NDF : 838796.4/16

Right Out: 1930.434+/-0.526 χ^2/NDF : 1403552.6/18

Left In: 2083.411+/-0.426 χ^2/NDF : 726859.3/14

Left: 2059.518+/-0.292 χ^2/NDF : 1571598.2/31

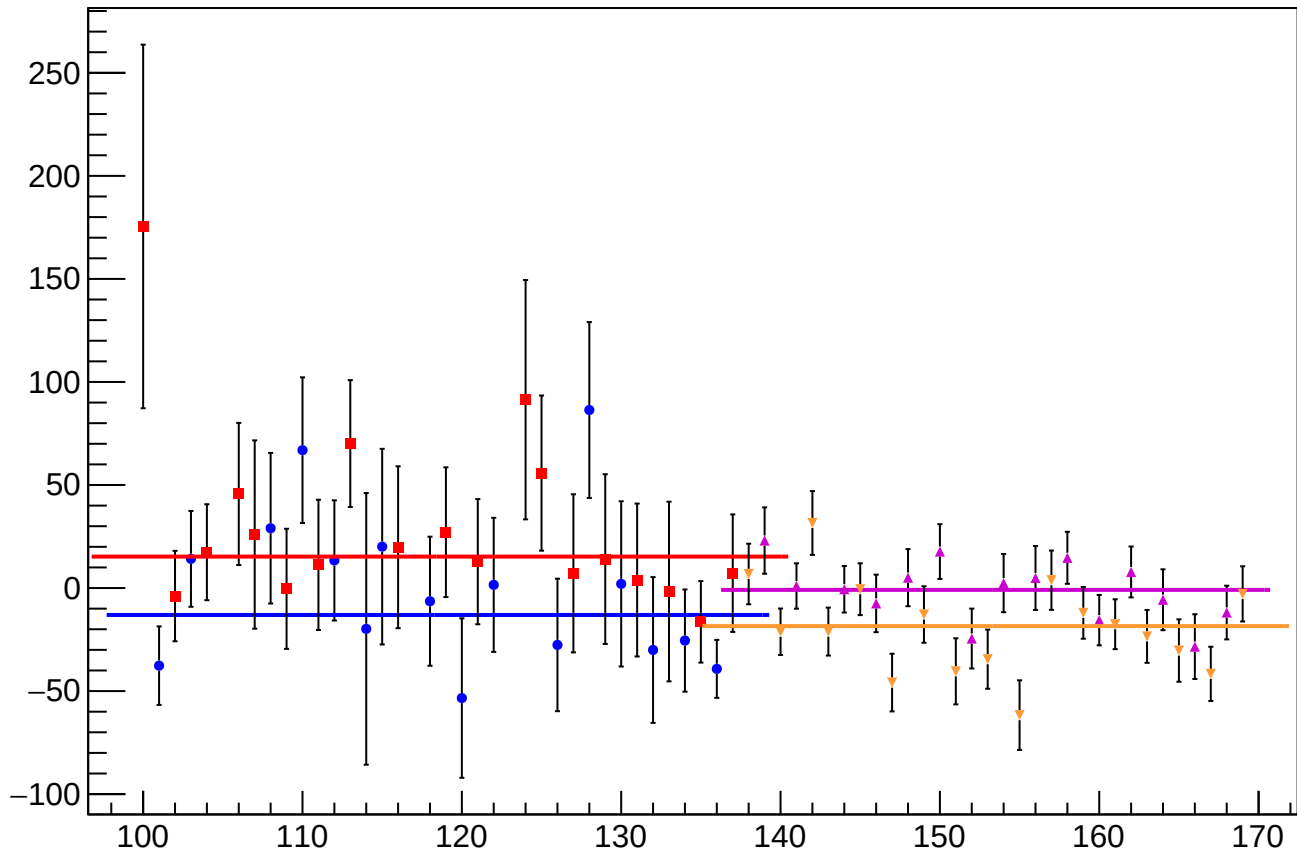
Right: 1964.155+/-0.380 χ^2/NDF : 2601922.6/34

In: 2052.531+/-0.337 χ^2/NDF : 1930666.7/30

Out: 1998.598+/-0.319 χ^2/NDF : 2268871.9/35

All: 2024.125+/-0.232 χ^2/NDF : 4213039.6/66

diff_bpmtargetsumX_mean vs Slug, Sign Corrected



Right In: -13.066 ± 7.026 $\chi^2/\text{NDF}: 21.9/15$

Left Out: -18.471 ± 3.281 $\chi^2/\text{NDF}: 37.1/16$

Right Out: 15.253 ± 7.321 $\chi^2/\text{NDF}: 14.3/18$

Left In: -0.895 ± 3.451 $\chi^2/\text{NDF}: 14.8/14$

Left: -10.128 ± 2.378 $\chi^2/\text{NDF}: 65.6/31$

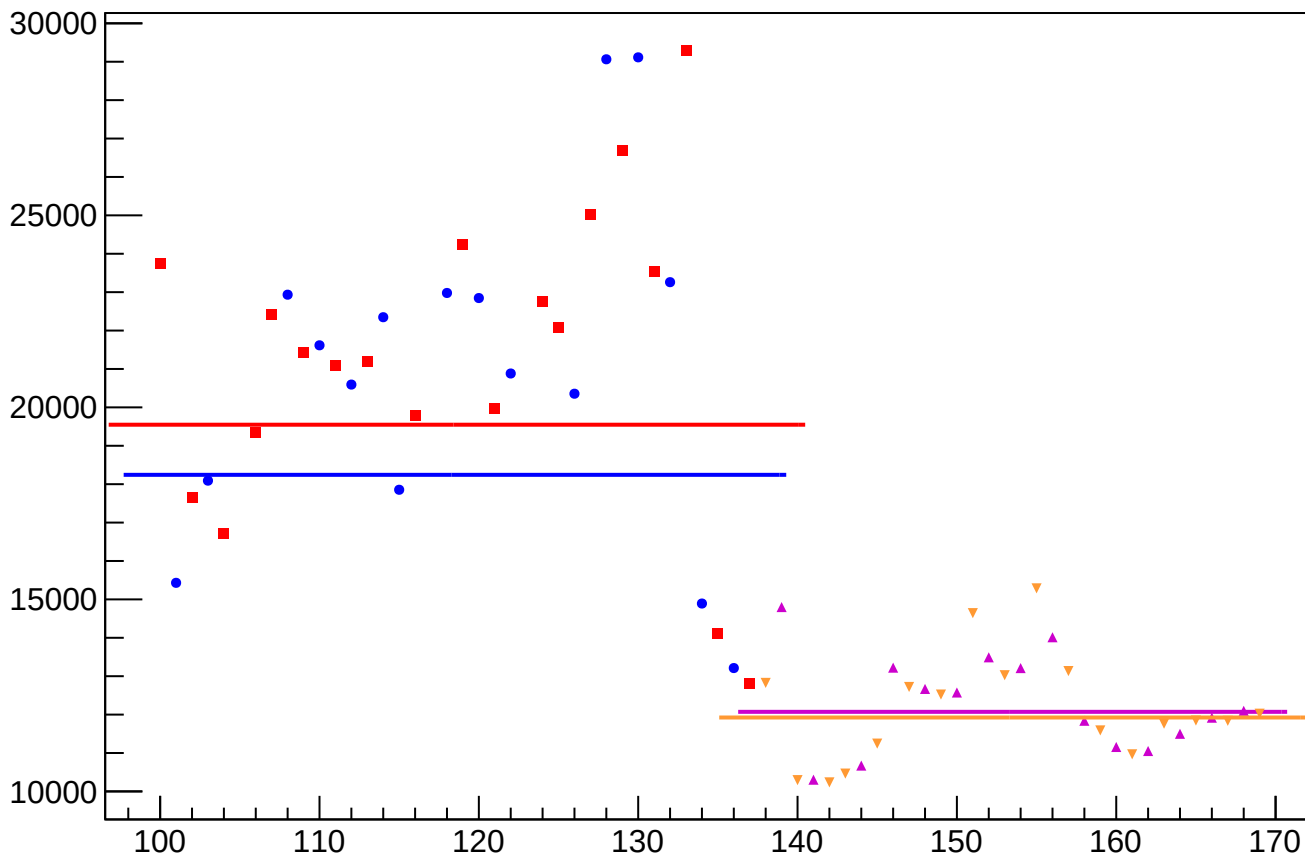
Right: 0.513 ± 5.069 $\chi^2/\text{NDF}: 44.0/34$

In: -3.261 ± 3.098 $\chi^2/\text{NDF}: 39.1/30$

Out: -12.831 ± 2.994 $\chi^2/\text{NDF}: 69.2/35$

All: -8.209 ± 2.153 $\chi^2/\text{NDF}: 113.2/66$

diff_bpmtargetsumX_rms vs Slug, Sign Corrected



Right In: 18243.342 $\pm$ 4.968 χ^2/NDF : 819828.6/15

Left Out: 11924.349 $\pm$ 2.320 χ^2/NDF :298119.3/16

Right Out: 19548.426 $\pm$ 5.176 χ^2/NDF : 621716.4/18

Left In: 12072.118 $\pm$ 2.441 χ^2/NDF :252116.6/14

Left: 11994.491 $\pm$ 1.681 χ^2/NDF : 552161.8/31

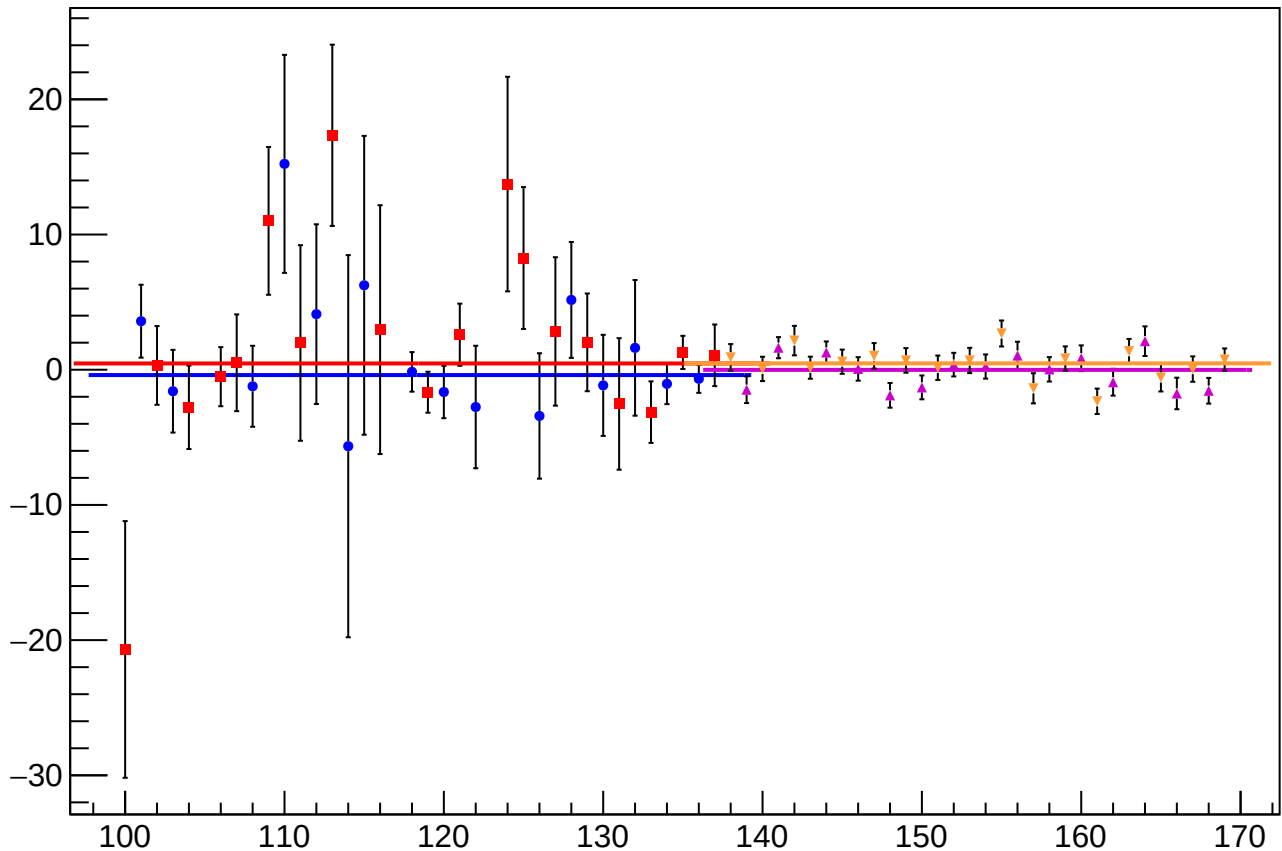
Right: 18869.124 $\pm$ 3.585 χ^2/NDF : 1474629.7/34

In: 13271.704 $\pm$ 2.191 χ^2/NDF :2314847.8/30

Out: 13199.495 $\pm$ 2.117 χ^2/NDF :2726241.7/35

All: 13234.368 $\pm$ 1.522 χ^2/NDF : 5041651.4/6

diff_bpmtargetdiffX_mean vs Slug, Sign Corrected



Right In: -0.394 ± 0.600 $\chi^2/\text{NDF}: 10.4/15$

Left Out: 0.472 ± 0.226 $\chi^2/\text{NDF}: 23.0/16$

Right Out: 0.464 ± 0.634 $\chi^2/\text{NDF}: 28.0/18$

Left In: -0.011 ± 0.239 $\chi^2/\text{NDF}: 27.2/14$

Left: 0.244 ± 0.164 $\chi^2/\text{NDF}: 52.3/31$

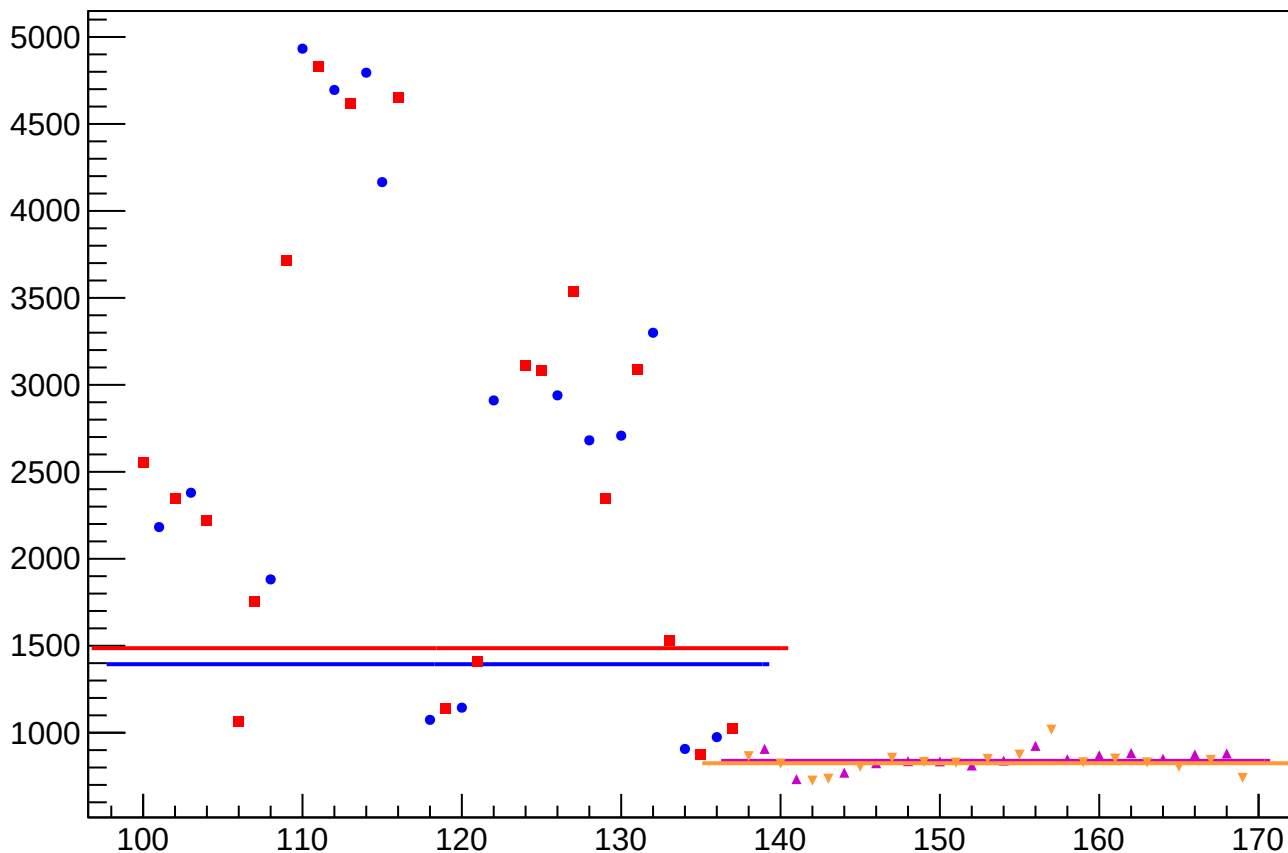
Right: 0.011 ± 0.436 $\chi^2/\text{NDF}: 39.4/34$

In: -0.064 ± 0.222 $\chi^2/\text{NDF}: 37.9/30$

Out: 0.471 ± 0.213 $\chi^2/\text{NDF}: 51.0/35$

All: 0.215 ± 0.154 $\chi^2/\text{NDF}: 92.0/66$

diff_bpmtargetdiffX_rms vs Slug, Sign Corrected



Right In: 1393.912 $\pm$ 0.424 χ^2 /NDF: 3381007.0/15

Left Out: 824.617 $\pm$ 0.160 χ^2 /NDF:138319.5/16

Right Out: 1486.000 $\pm$ 0.448 χ^2 /NDF: 3398817.4/18

Left In: 838.231 $\pm$ 0.169 χ^2 /NDF:89025.1/14

Left: 831.047 $\pm$ 0.116 χ^2 /NDF: 230771.0/31

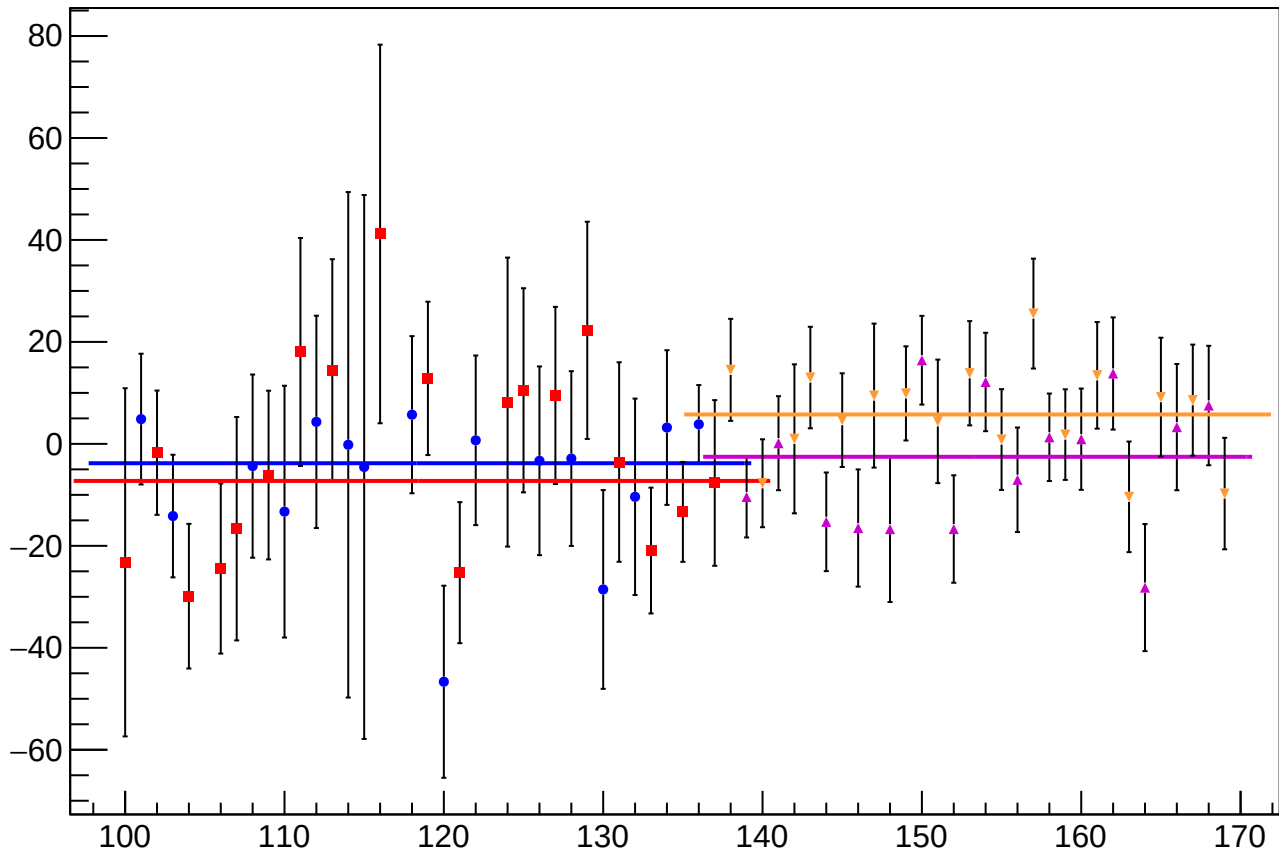
Right: 1437.438 $\pm$ 0.308 χ^2 /NDF: 6802082.3/34

In: 914.265 $\pm$ 0.157 χ^2 /NDF:4950102.4/30

Out: 899.225 $\pm$ 0.151 χ^2 /NDF:5468686.0/35

All: 906.431 $\pm$ 0.109 χ^2 /NDF: 10423570.0/66

diff_bpmtargetsumY_mean vs Slug, Sign Corrected



Right In: -3.795 $\pm$ 3.943 χ^2/NDF : 10.1/15

Left Out: 5.771 $\pm$ 2.528 χ^2/NDF :13.5/16

Right Out: -7.264 $\pm$ 3.807 χ^2/NDF : 17.3/18

Left In: -2.534 $\pm$ 2.622 χ^2/NDF :22.0/14

Left: 1.770 $\pm$ 1.820 χ^2/NDF : 40.7/31

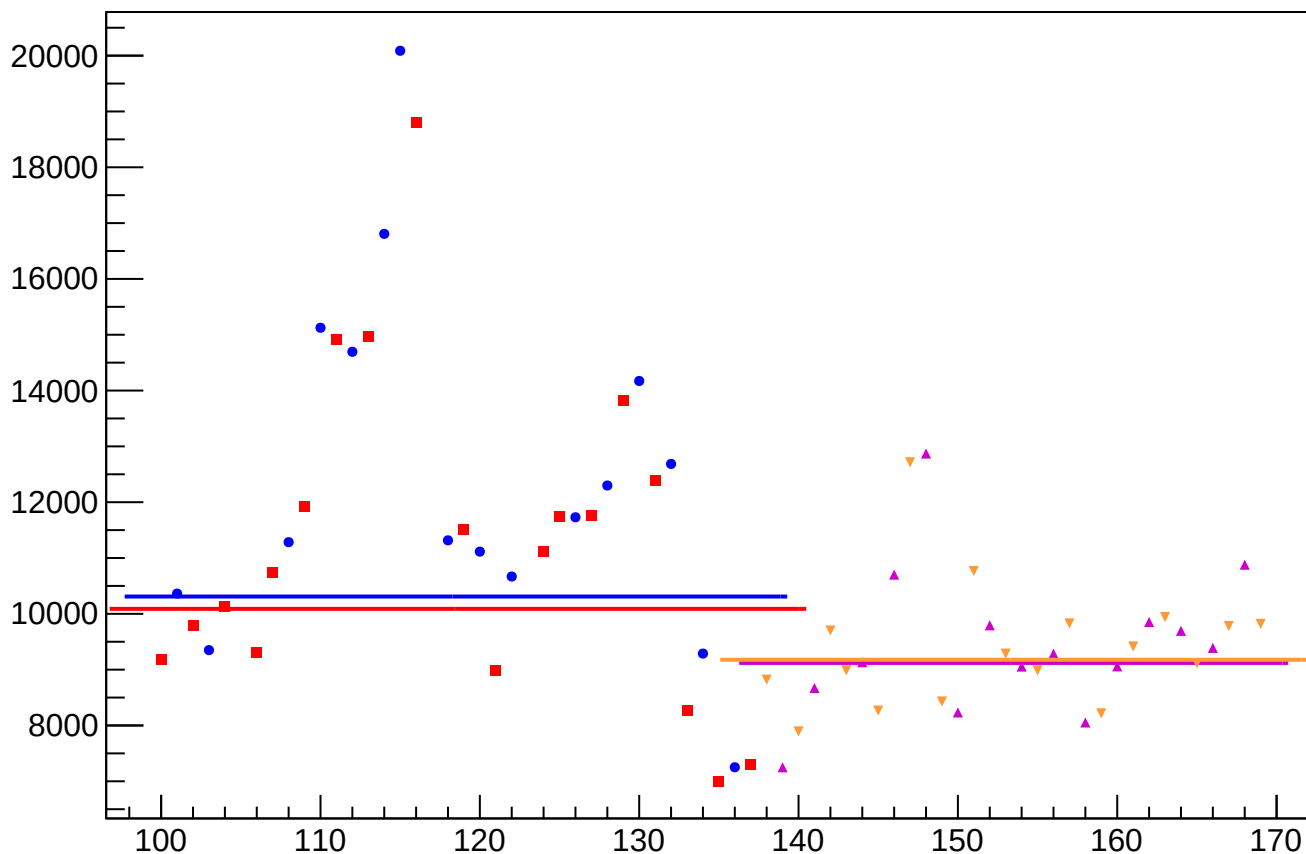
Right: -5.590 $\pm$ 2.739 χ^2/NDF : 27.7/34

In: -2.920 $\pm$ 2.183 χ^2/NDF :32.2/30

Out: 1.782 $\pm$ 2.106 χ^2/NDF :38.9/35

All: -0.484 $\pm$ 1.516 χ^2/NDF : 73.5/66

diff_bpmtargetsumY_rms vs Slug, Sign Corrected



Right In: 10309.969 $\pm$ 2.788 χ^2 /NDF: 770518.2/15

Left Out: 9176.879 $\pm$ 1.788 χ^2 /NDF: 298594.3/16

Right Out: 10089.584 $\pm$ 2.692 χ^2 /NDF: 792788.1/18

Left In: 9120.643 $\pm$ 1.854 χ^2 /NDF: 411088.6/14

Left: 9149.788 $\pm$ 1.287 χ^2 /NDF: 710159.6/31

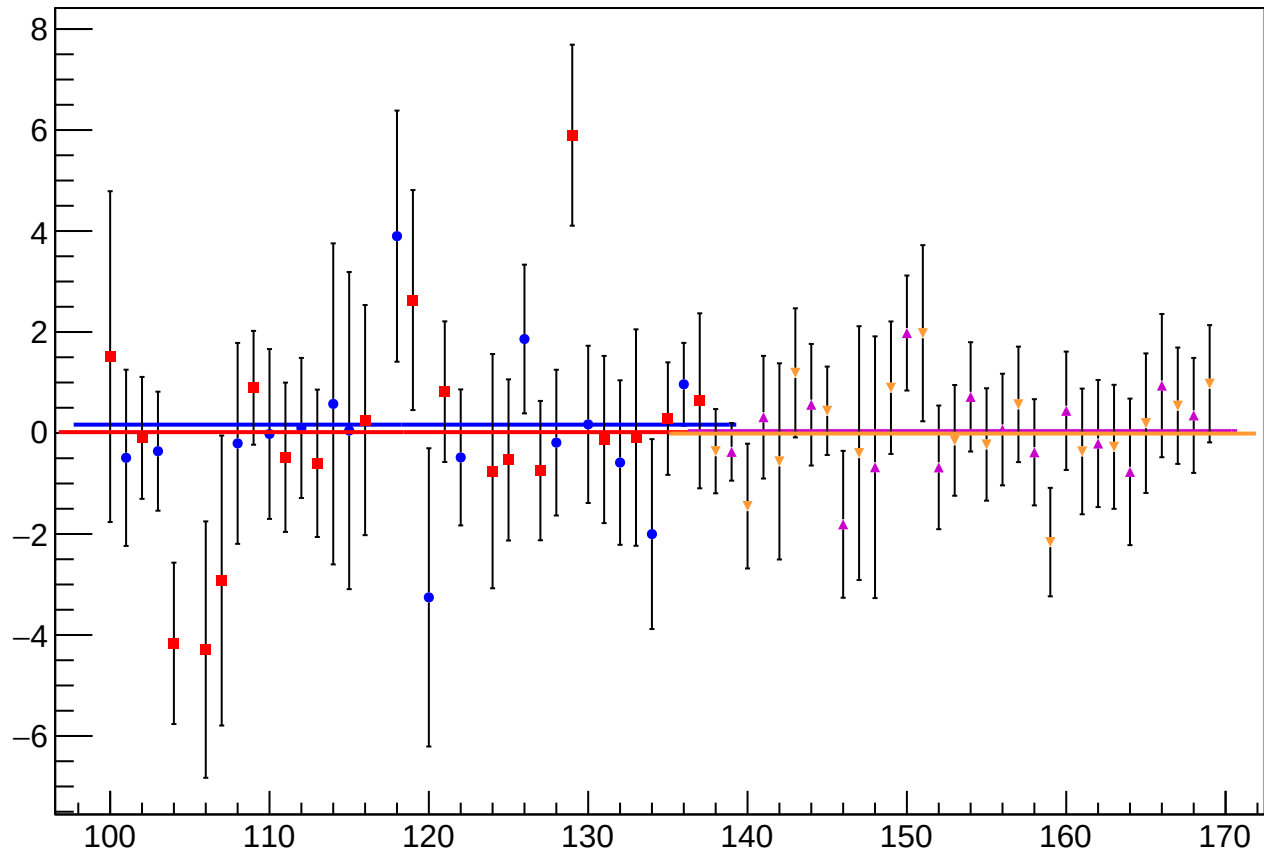
Right: 10195.906 $\pm$ 1.937 χ^2 /NDF: 1566539.8/34

In: 9485.332 $\pm$ 1.544 χ^2 /NDF: 1307766.1/30

Out: 9456.206 $\pm$ 1.489 χ^2 /NDF: 1171157.8/35

All: 9470.243 $\pm$ 1.072 χ^2 /NDF: 2479108.3/66

diff_bpmtargetdiffY_mean vs Slug, Sign Corrected



Right In: 0.165+/-0.386 χ^2/NDF : 8.1/15

Left Out: -0.011+/-0.289 χ^2/NDF :10.0/16

Right Out: 0.017+/-0.372 χ^2/NDF : 25.2/18

Left In: 0.037+/-0.287 χ^2/NDF :7.2/14

Left: 0.013+/-0.204 χ^2/NDF : 17.2/31

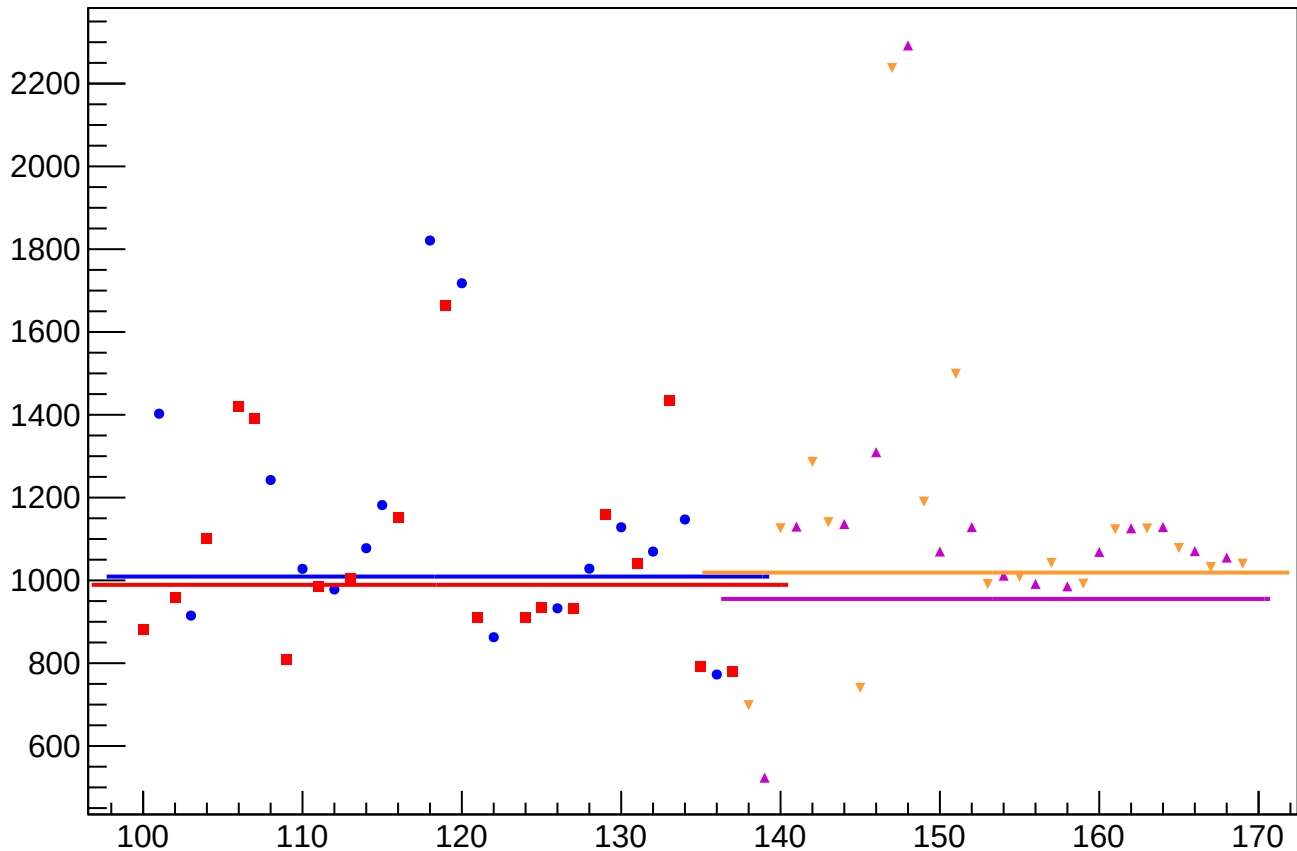
Right: 0.089+/-0.268 χ^2/NDF : 33.4/34

In: 0.082+/-0.230 χ^2/NDF :15.4/30

Out: -0.000+/-0.228 χ^2/NDF :35.1/35

All: 0.041+/-0.162 χ^2/NDF : 50.6/66

diff_bpmtargetdiffY_rms vs Slug, Sign Corrected



Right In: 1009.222+/-0.273 χ^2/NDF : 699303.9/15

Left Out: 1018.872+/-0.205 χ^2/NDF : 1261745.6/16

Right Out: 989.246+/-0.263 χ^2/NDF : 575759.9/18

Left In: 955.182+/-0.203 χ^2/NDF : 2065785.3/14

Left: 986.710+/-0.144 χ^2/NDF : 3376442.8/31

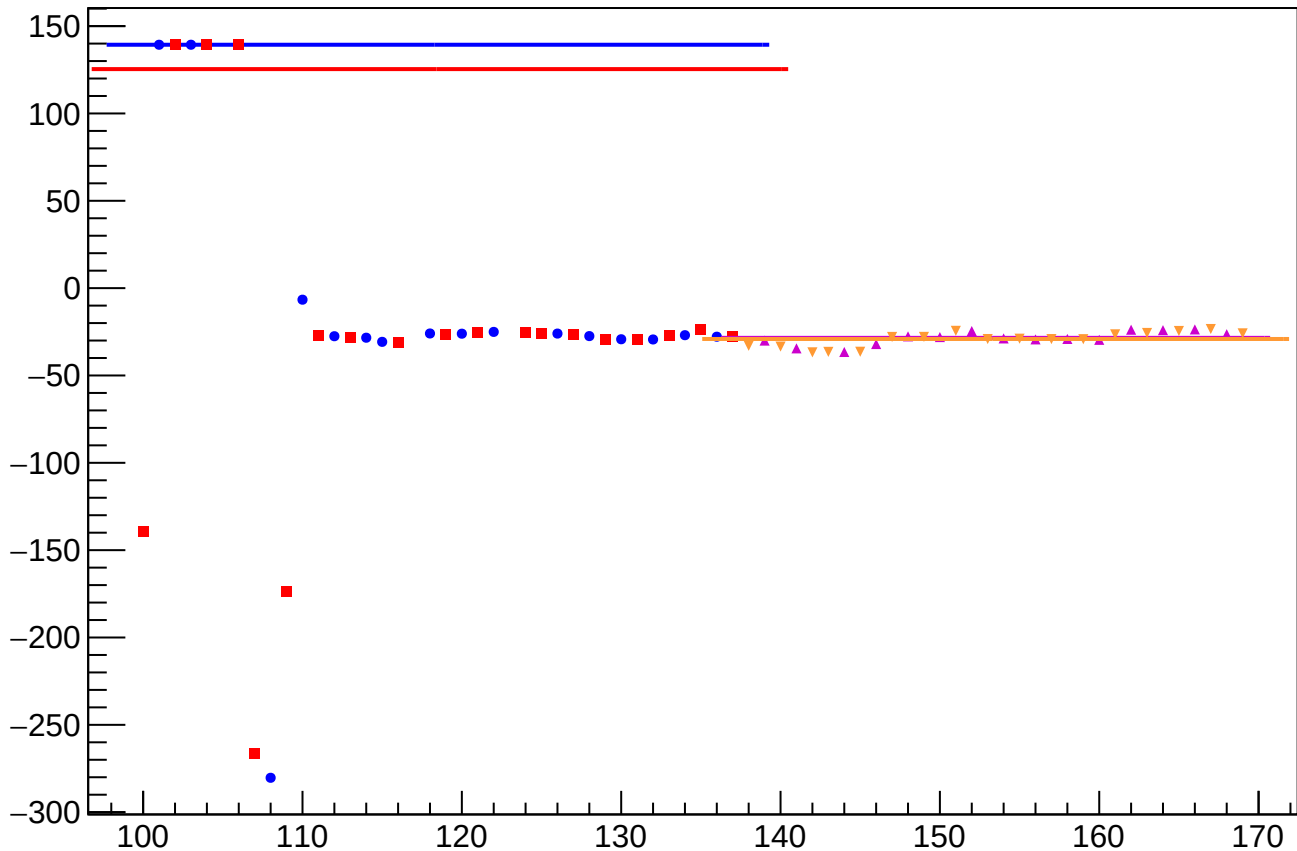
Right: 998.863+/-0.190 χ^2/NDF : 1277836.8/34

In: 974.362+/-0.163 χ^2/NDF : 2790335.3/30

Out: 1007.710+/-0.162 χ^2/NDF : 1845401.7/35

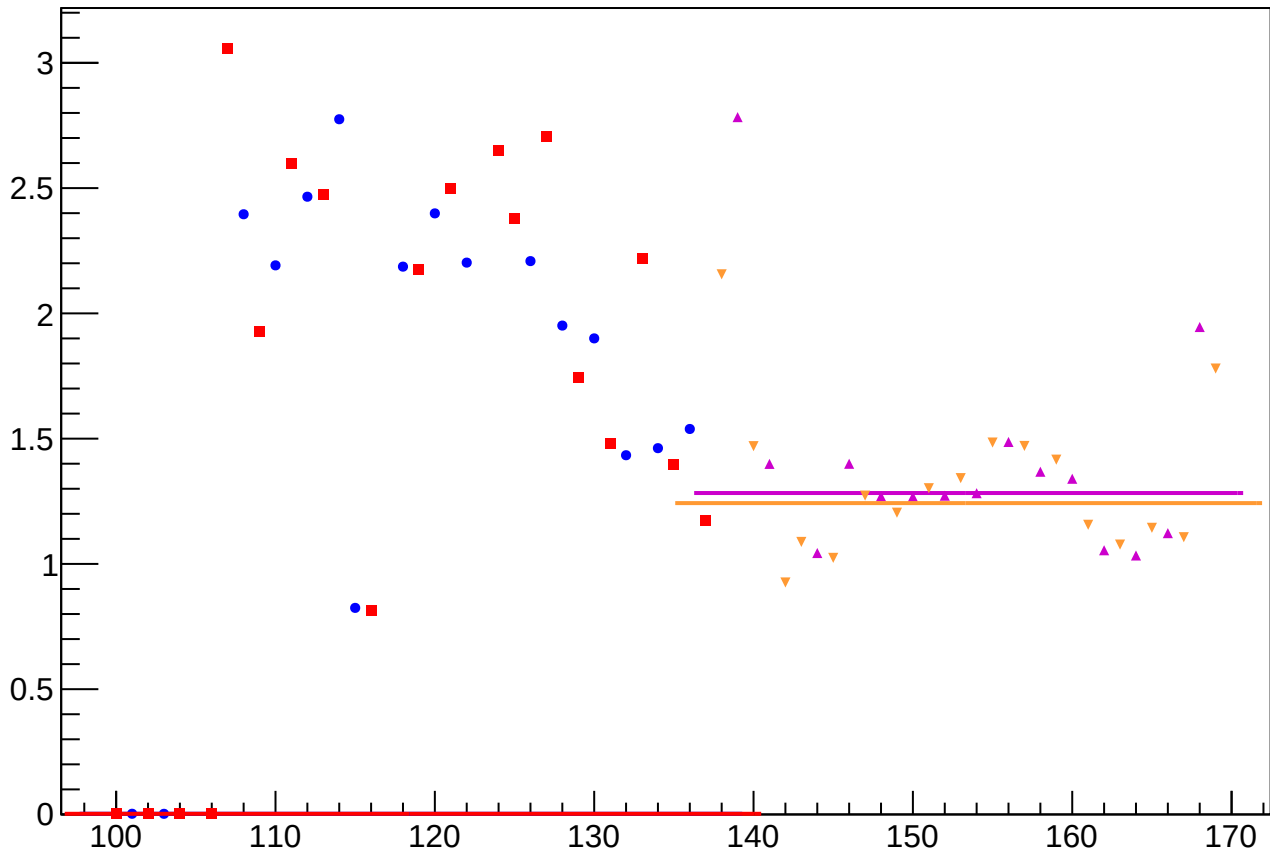
All: 991.157+/-0.115 χ^2/NDF : 4656886.5/66

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 139.337 $\pm$ 0.000 χ^2 /NDF: 47088045550.1/15
 Left Out: -29.105 $\pm$ 0.000 χ^2 /NDF:134164937.9/16
 Right Out: 125.392 $\pm$ 0.000 χ^2 /NDF: 774173119844052.5/18
 Left In: -28.460 $\pm$ 0.000 χ^2 /NDF:96384173.8/14
 Left: -28.805 $\pm$ 0.000 χ^2 /NDF: 231868660.6/31
 Right: 131.818 $\pm$ 0.000 χ^2 /NDF: 793004999492497
 In: 139.331 $\pm$ 0.000 χ^2 /NDF:214542790671.6/30
 Out: 125.387 $\pm$ 0.000 χ^2 /NDF:774336156064682.
 All: 131.813 $\pm$ 0.000 χ^2 /NDF: 793334662645

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 9565657.6/15

Left Out: 1.243 $\pm$ 0.000 χ^2 /NDF: 701089.9/16

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 9733783.1/18

Left In: 1.283 $\pm$ 0.000 χ^2 /NDF: 907407.3/14

Left: 1.261 $\pm$ 0.000 χ^2 /NDF: 1618783.1/31

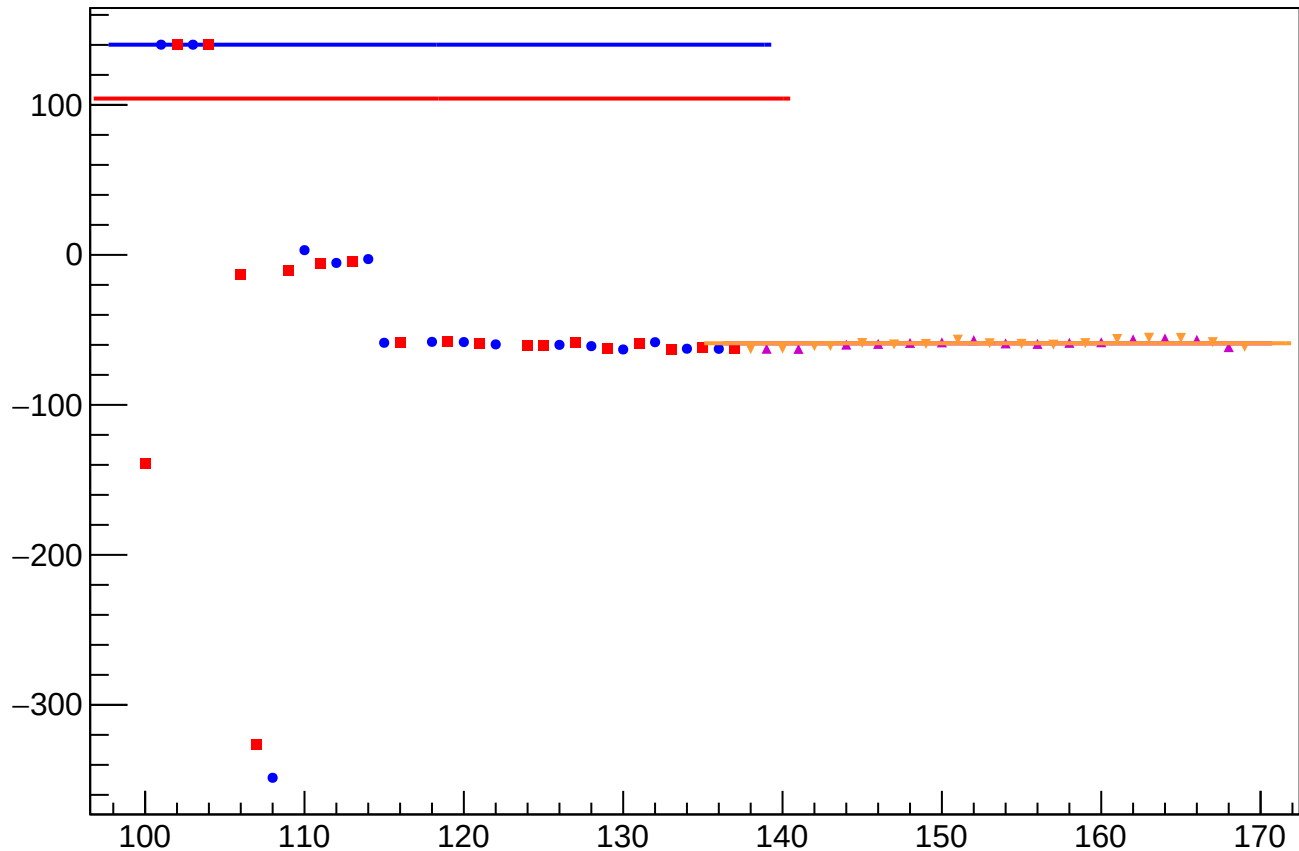
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 19299624.2/34

In: 0.003 $\pm$ 0.000 χ^2 /NDF: 29959538.6/30

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 31425809.3/35

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 61385557.2/66

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 140.143+/-0.000 χ^2/NDF : 187461723281.9/15

Left Out: -58.907+/-0.000 χ^2/NDF : 131757068.4/16

Right Out: 104.224+/-0.000 χ^2/NDF : 1257401882577.0/18

Left In: -59.018+/-0.000 χ^2/NDF : 108197256.0/14

Left: -58.960+/-0.000 χ^2/NDF : 240072411.7/31

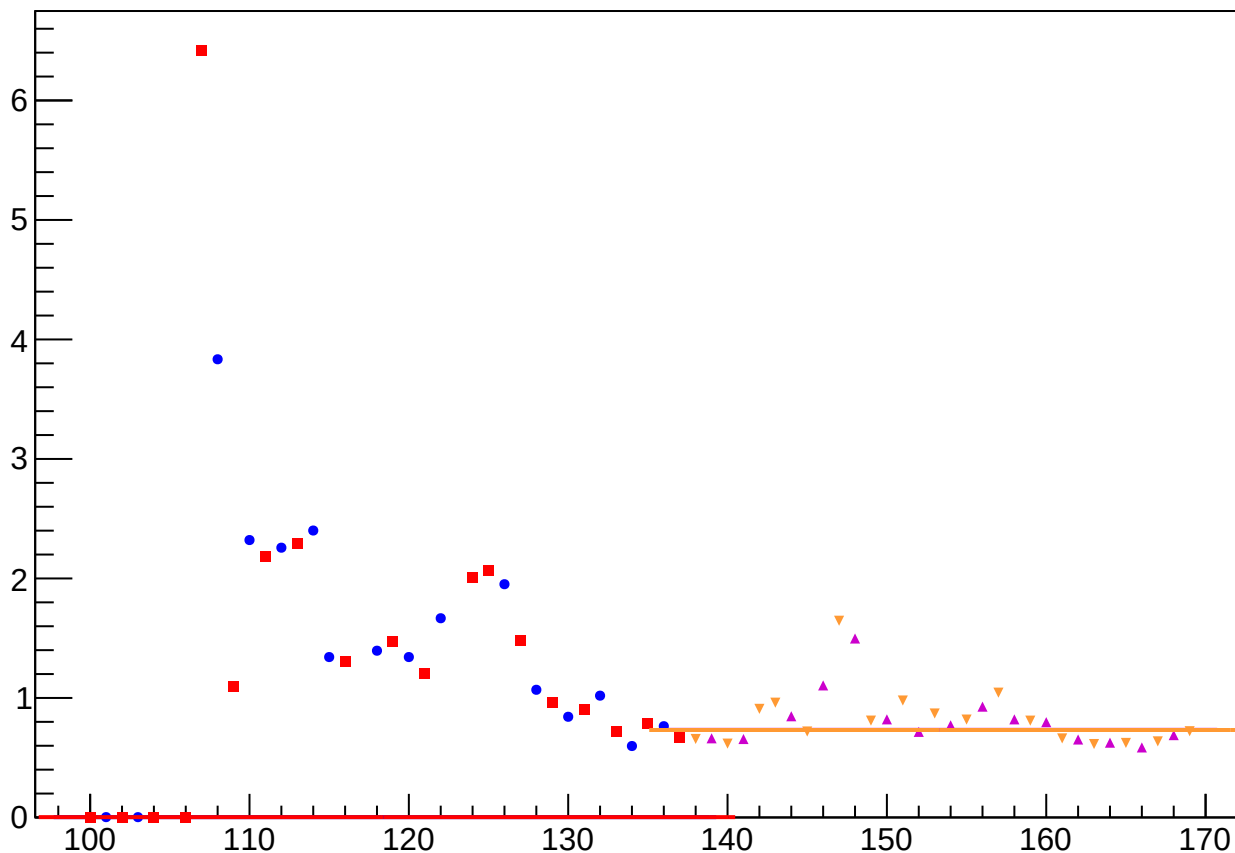
Right: 120.832+/-0.000 χ^2/NDF : 138089570604348

In: 140.123+/-0.000 χ^2/NDF : 911035316842.5/30

Out: 104.209+/-0.000 χ^2/NDF : 1257929154339890

All: 120.814+/-0.000 χ^2/NDF : 138212584282

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 10578723.1/15

Left Out: 0.732+/-0.000 χ^2/NDF :1011142.2/16

Right Out: 0.003+/-0.000 χ^2/NDF : 10266772.6/18

Left In: 0.733+/-0.000 χ^2/NDF :803850.2/14

Left: 0.732+/-0.000 χ^2/NDF : 1815023.1/31

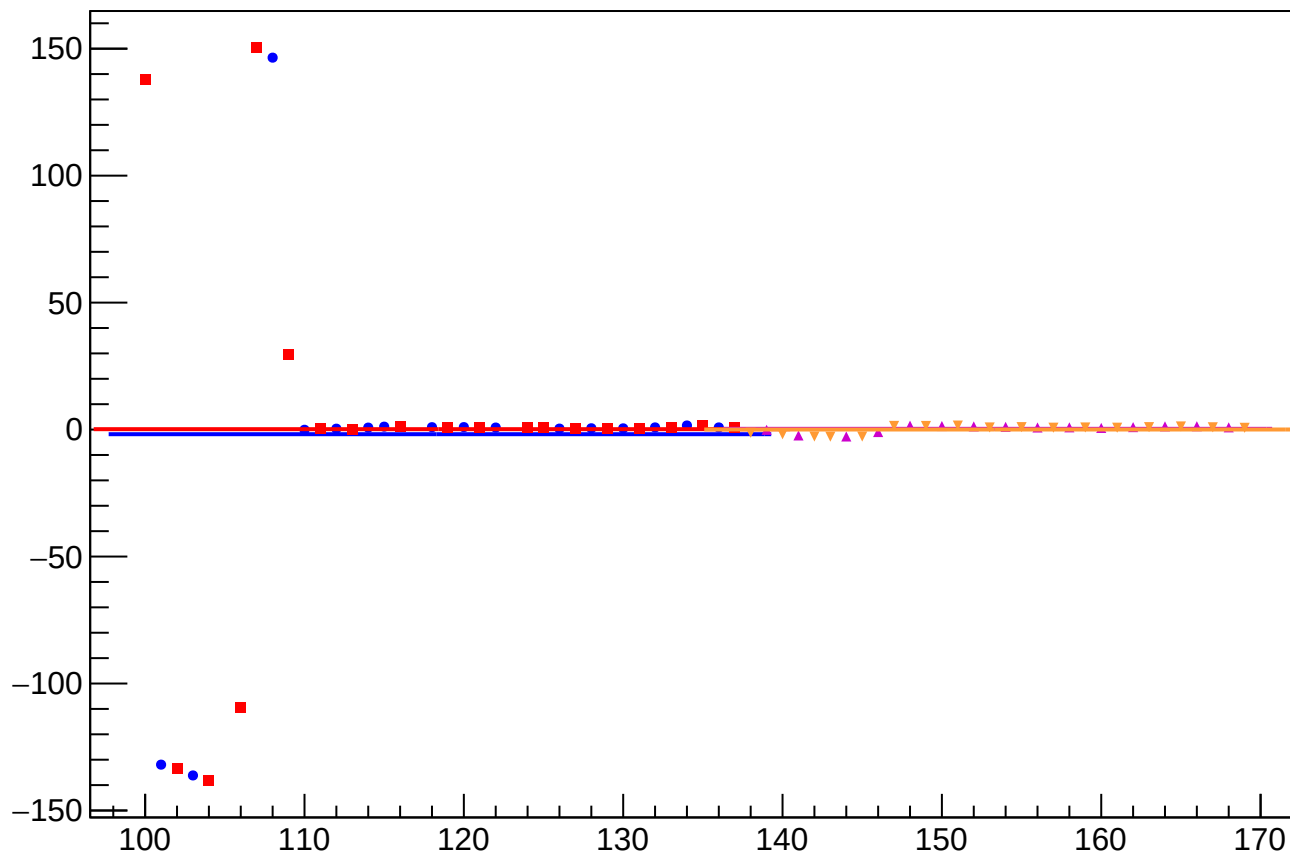
Right: 0.003+/-0.000 χ^2/NDF : 20845702.5/34

In: 0.003+/-0.000 χ^2/NDF :30846315.9/30

Out: 0.003+/-0.000 χ^2/NDF :32344802.0/35

All: 0.003+/-0.000 χ^2/NDF : 63191393.3/66

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -1.818 ± 0.000 $\chi^2/\text{NDF}: 9887177310.2/15$

Left Out: 0.034 ± 0.000 $\chi^2/\text{NDF}: 98505936.9/16$

Right Out: 0.165 ± 0.000 $\chi^2/\text{NDF}: 3611245020.0/18$

Left In: 0.296 ± 0.000 $\chi^2/\text{NDF}: 69287695.6/14$

Left: 0.156 ± 0.000 $\chi^2/\text{NDF}: 169040995.6/31$

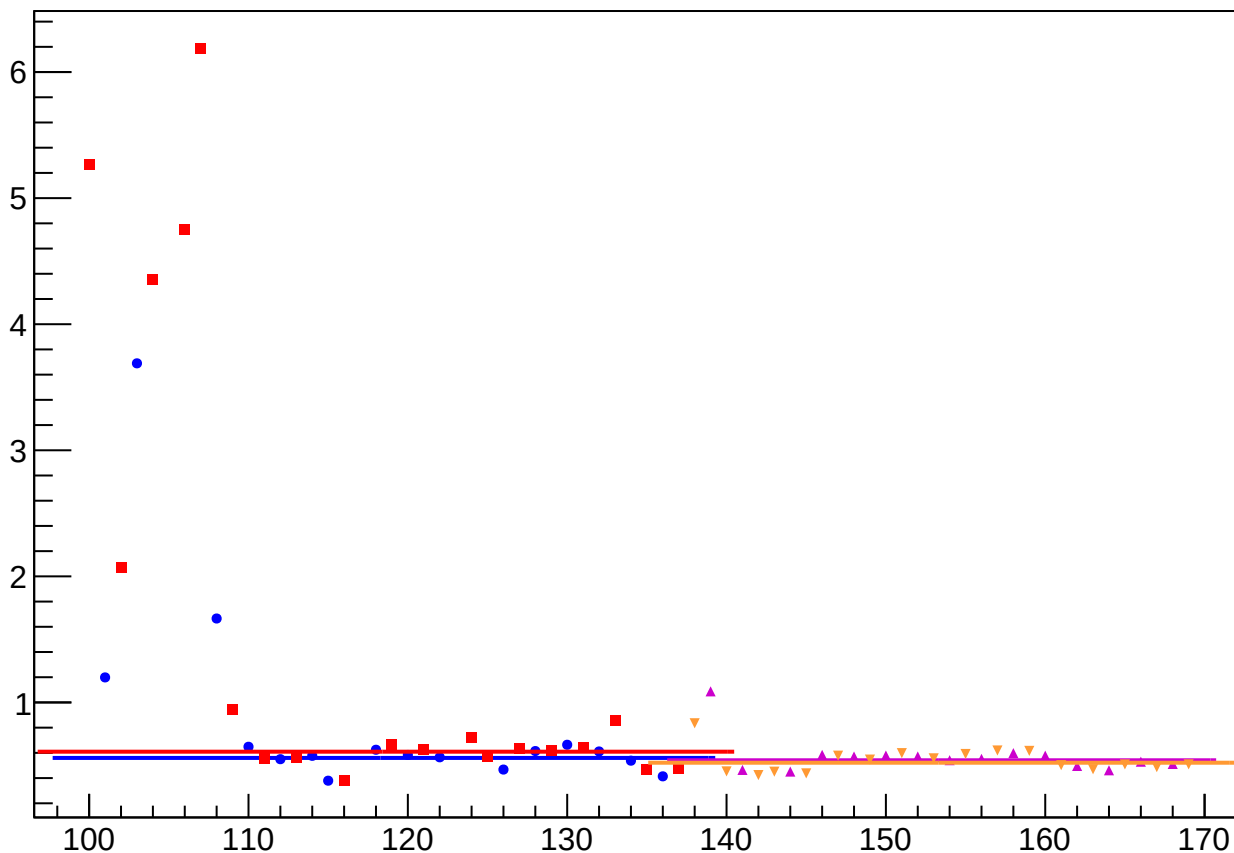
Right: -0.919 ± 0.000 $\chi^2/\text{NDF}: 13527173630.8/34$

In: -0.386 ± 0.000 $\chi^2/\text{NDF}: 10005297105.5/30$

Out: 0.067 ± 0.000 $\chi^2/\text{NDF}: 3709920996.1/35$

All: -0.154 ± 0.000 $\chi^2/\text{NDF}: 13720481192.4/70$

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.560+/-0.000 χ^2/NDF : 1598439.5/15

Left Out: 0.522+/-0.000 χ^2/NDF : 475164.4/16

Right Out: 0.609+/-0.000 χ^2/NDF : 2476010.3/18

Left In: 0.541+/-0.000 χ^2/NDF : 596288.8/14

Left: 0.531+/-0.000 χ^2/NDF : 1085038.7/31

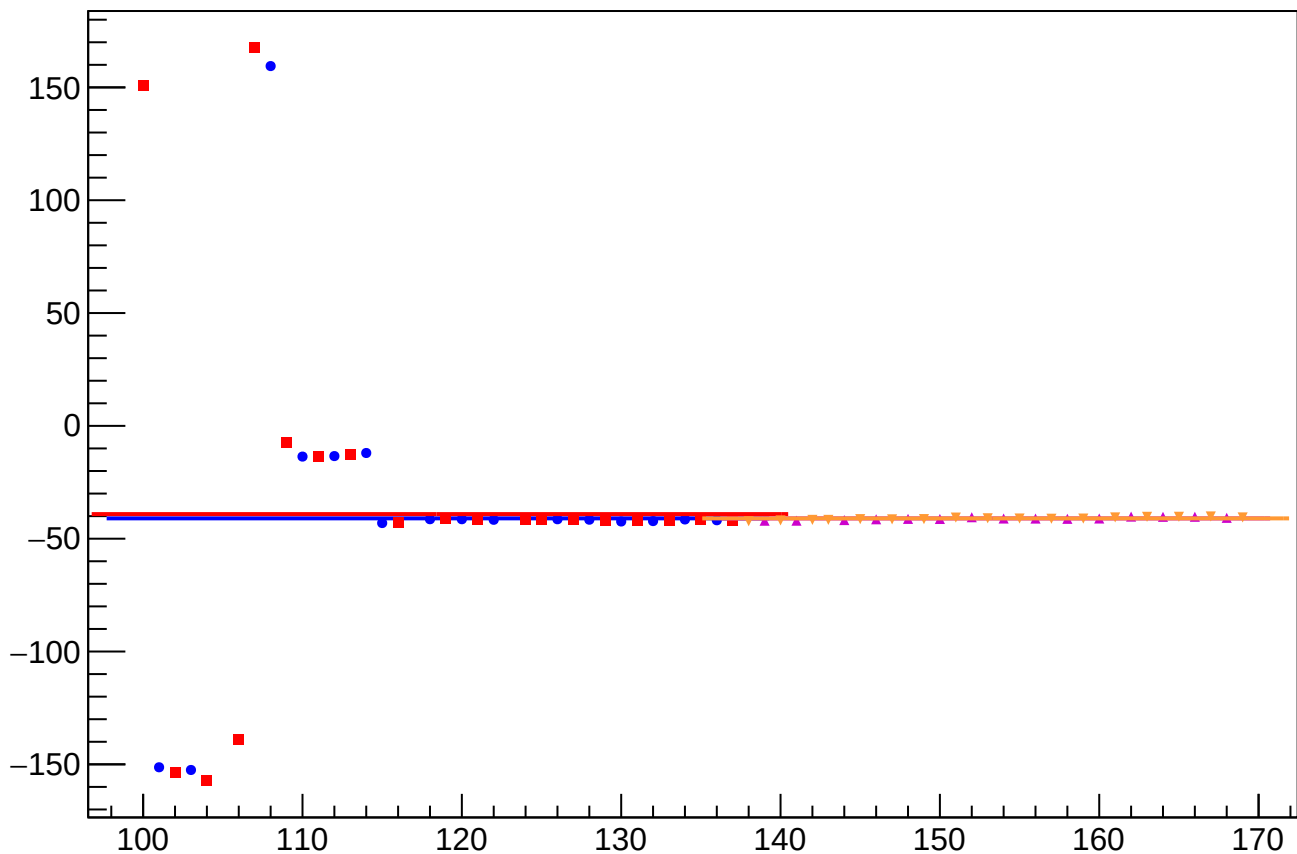
Right: 0.582+/-0.000 χ^2/NDF : 4110324.4/34

In: 0.547+/-0.000 χ^2/NDF : 2202297.2/30

Out: 0.544+/-0.000 χ^2/NDF : 3103793.3/35

All: 0.546+/-0.000 χ^2/NDF : 5306567.2/66

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -40.987 $\pm$ 0.000 χ^2 /NDF: 3449622021.8/15

Left Out: -40.997 $\pm$ 0.000 χ^2 /NDF: 31015632.1/16

Right Out: -39.101 $\pm$ 0.000 χ^2 /NDF: 2480133442.0/18

Left In: -41.016 $\pm$ 0.000 χ^2 /NDF: 27407096.8/14

Left: -41.006 $\pm$ 0.000 χ^2 /NDF: 58440338.1/31

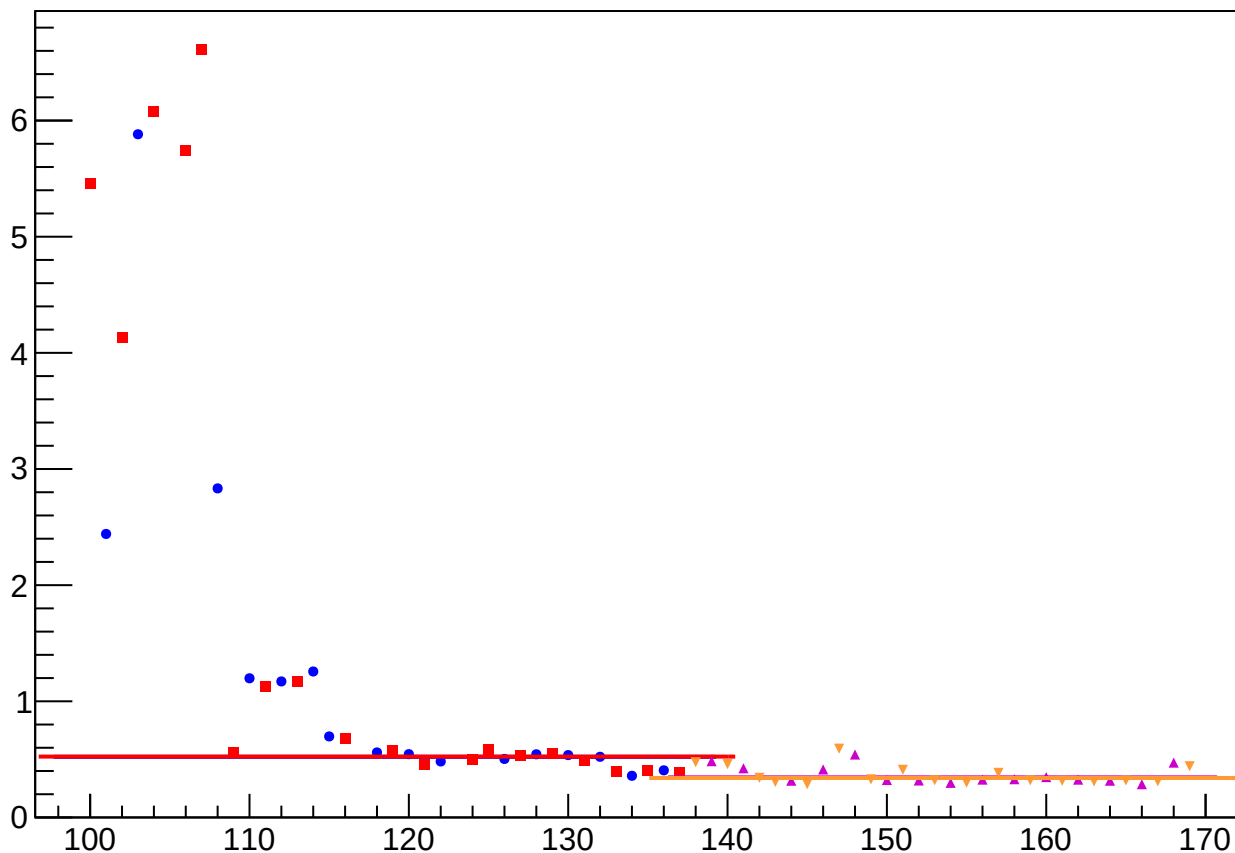
Right: -40.058 $\pm$ 0.000 χ^2 /NDF: 5962079351.2/34

In: -41.011 $\pm$ 0.000 χ^2 /NDF: 3477042064.9/30

Out: -40.726 $\pm$ 0.000 χ^2 /NDF: 2566313563.7/35

All: -40.862 $\pm$ 0.000 χ^2 /NDF: 6048218276.0/70

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.522+/-0.000 χ^2/NDF : 2949327.6/15

Left Out: 0.340+/-0.000 χ^2/NDF : 801609.8/16

Right Out: 0.524+/-0.000 χ^2/NDF : 3264460.0/18

Left In: 0.345+/-0.000 χ^2/NDF : 693206.3/14

Left: 0.342+/-0.000 χ^2/NDF : 1497939.6/31

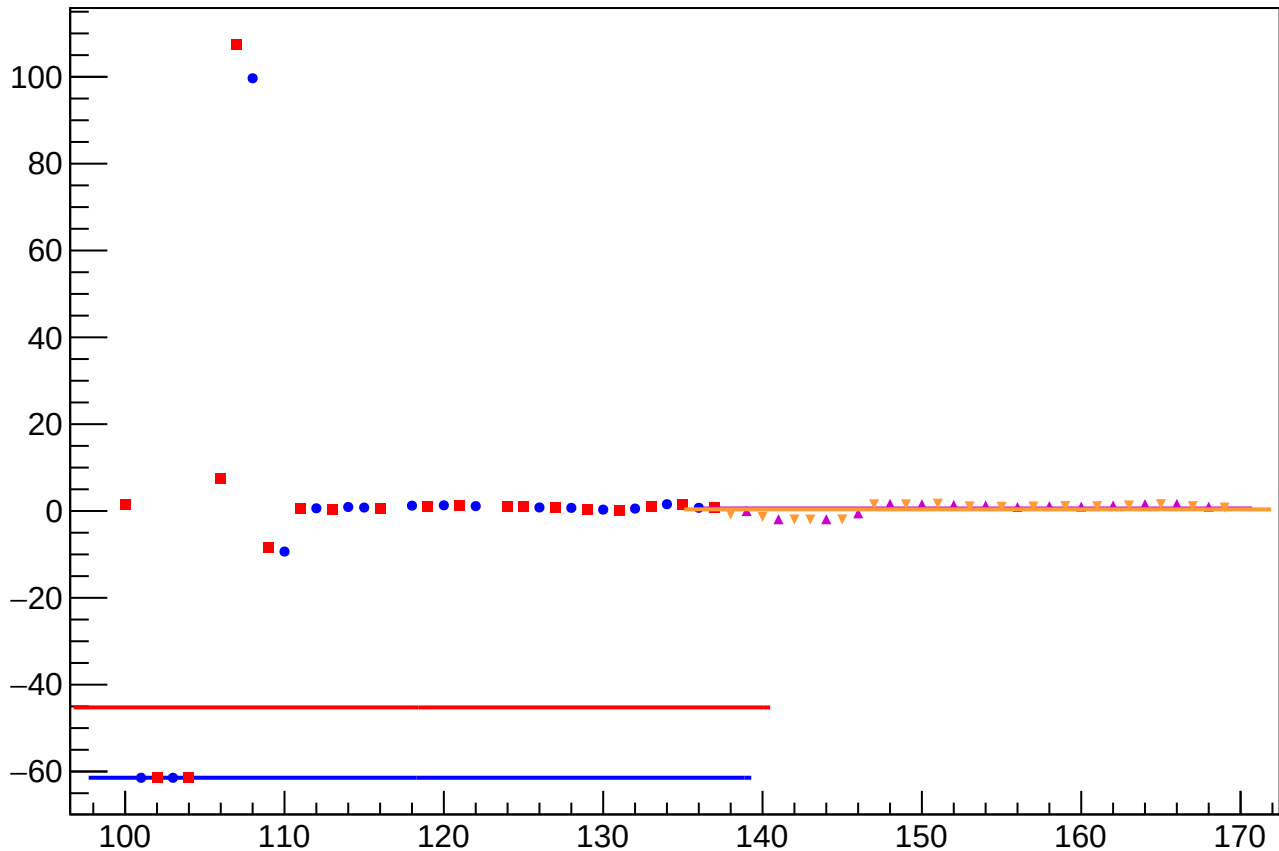
Right: 0.523+/-0.000 χ^2/NDF : 6213857.4/34

In: 0.374+/-0.000 χ^2/NDF : 4609529.7/30

Out: 0.366+/-0.000 χ^2/NDF : 5108492.1/35

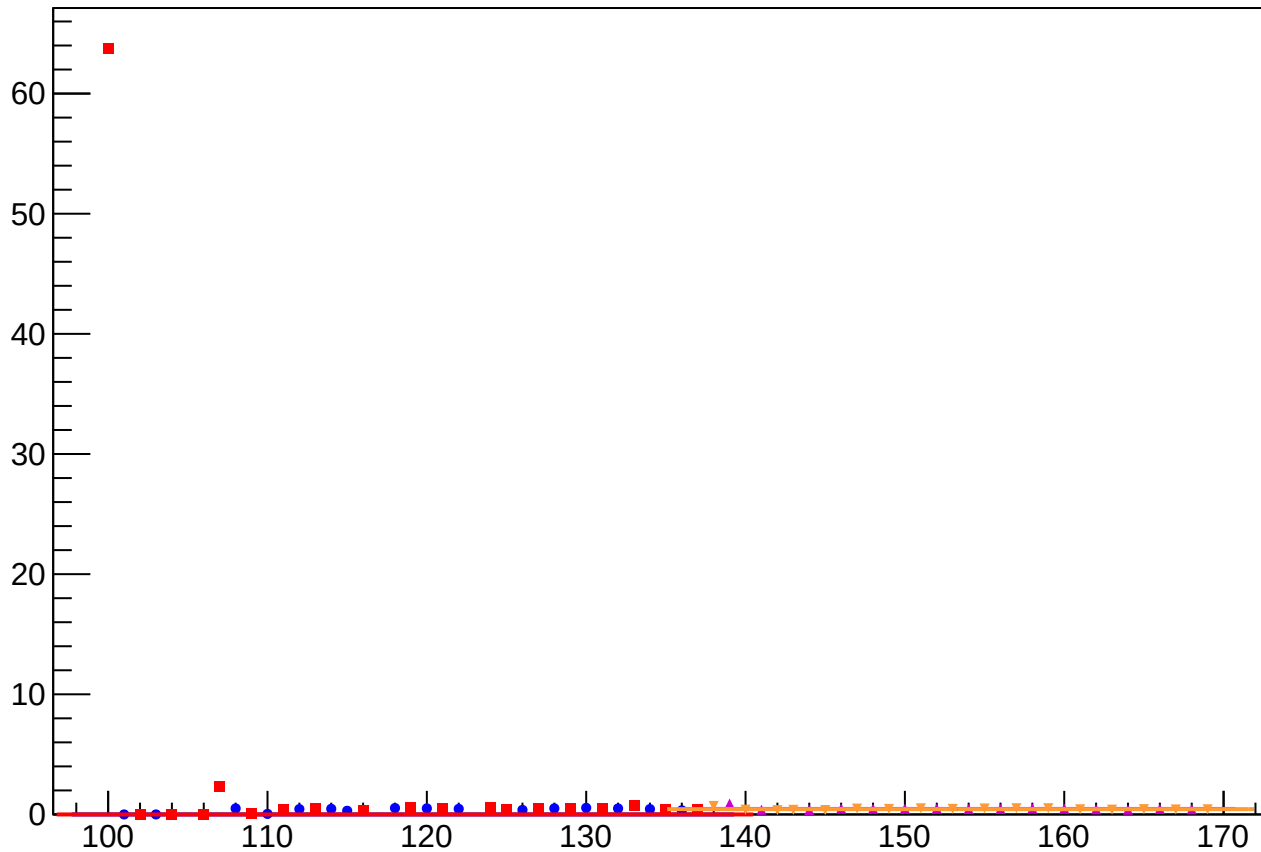
All: 0.370+/-0.000 χ^2/NDF : 9725222.8/66

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -61.436 ± 0.000 $\chi^2/\text{NDF}: 273496278670.9/15$
 Left Out: 0.378 ± 0.000 $\chi^2/\text{NDF}: 100798962.1/16$
 Right Out: -45.245 ± 0.000 $\chi^2/\text{NDF}: 357870328061478.0/18$
 Left In: 0.577 ± 0.000 $\chi^2/\text{NDF}: 76602568.5/14$
 Left: 0.470 ± 0.000 $\chi^2/\text{NDF}: 178401800.3/31$
 Right: -52.749 ± 0.000 $\chi^2/\text{NDF}: 409121918007227$
 In: -61.428 ± 0.000 $\chi^2/\text{NDF}: 455265458451.2/30$
 Out: -45.239 ± 0.000 $\chi^2/\text{NDF}: 357984487202337.9$
 All: -52.742 ± 0.000 $\chi^2/\text{NDF}: 409411113512$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 9156181.6/15

Left Out: 0.442+/-0.000 χ^2/NDF : 462507.2/16

Right Out: 0.001+/-0.000 χ^2/NDF : 9345109.5/18

Left In: 0.459+/-0.000 χ^2/NDF : 569361.2/14

Left: 0.450+/-0.000 χ^2/NDF : 1046615.9/31

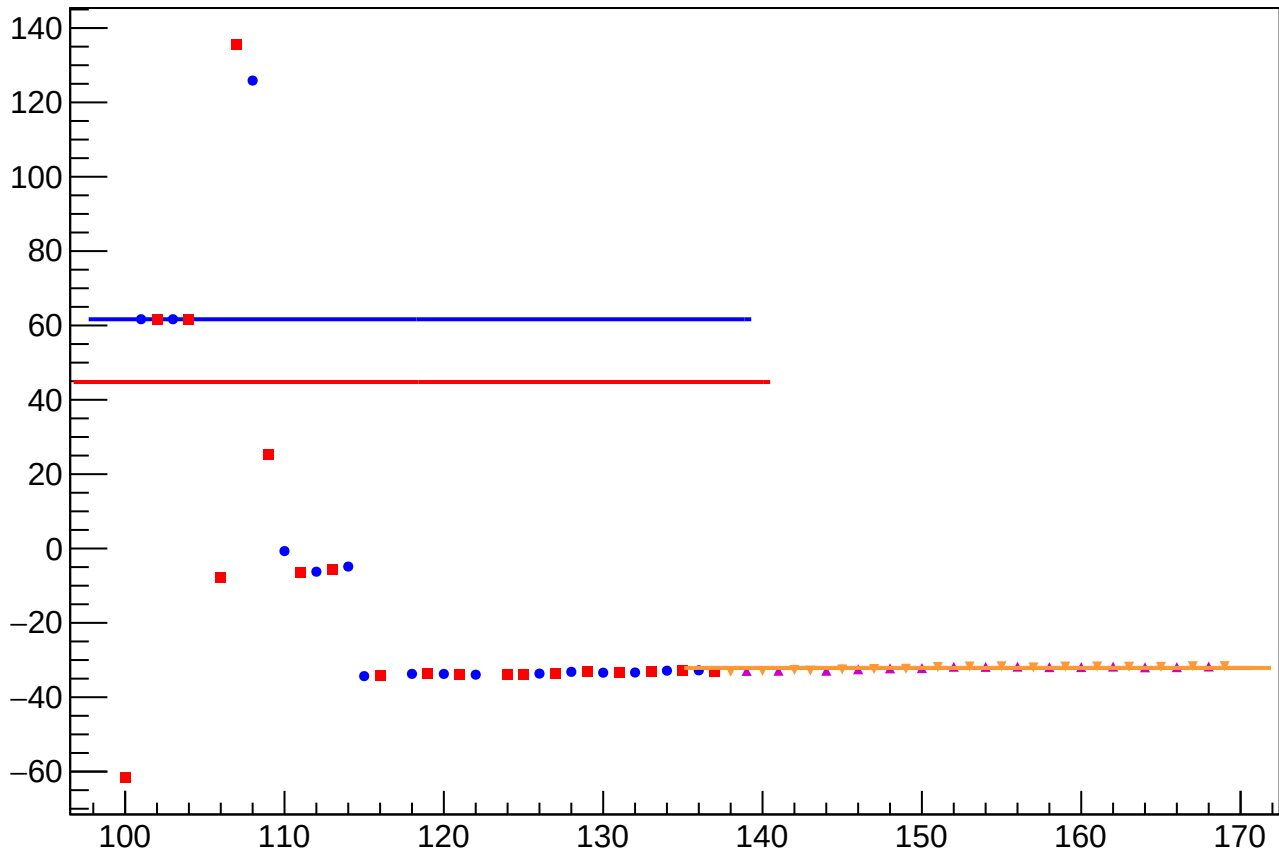
Right: 0.001+/-0.000 χ^2/NDF : 18501293.3/34

In: 0.002+/-0.000 χ^2/NDF : 29489618.8/30

Out: 0.002+/-0.000 χ^2/NDF : 31052976.4/35

All: 0.002+/-0.000 χ^2/NDF : 60542603.0/66

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 61.662+/-0.000 χ^2/NDF : 369463062074.0/15

Left Out: -32.125+/-0.000 χ^2/NDF : 35579810.1/16

Right Out: 44.786+/-0.000 χ^2/NDF : 366094778229951.8/18

Left In: -32.131+/-0.000 χ^2/NDF : 25250877.8/14

Left: -32.128+/-0.000 χ^2/NDF : 60832883.8/31

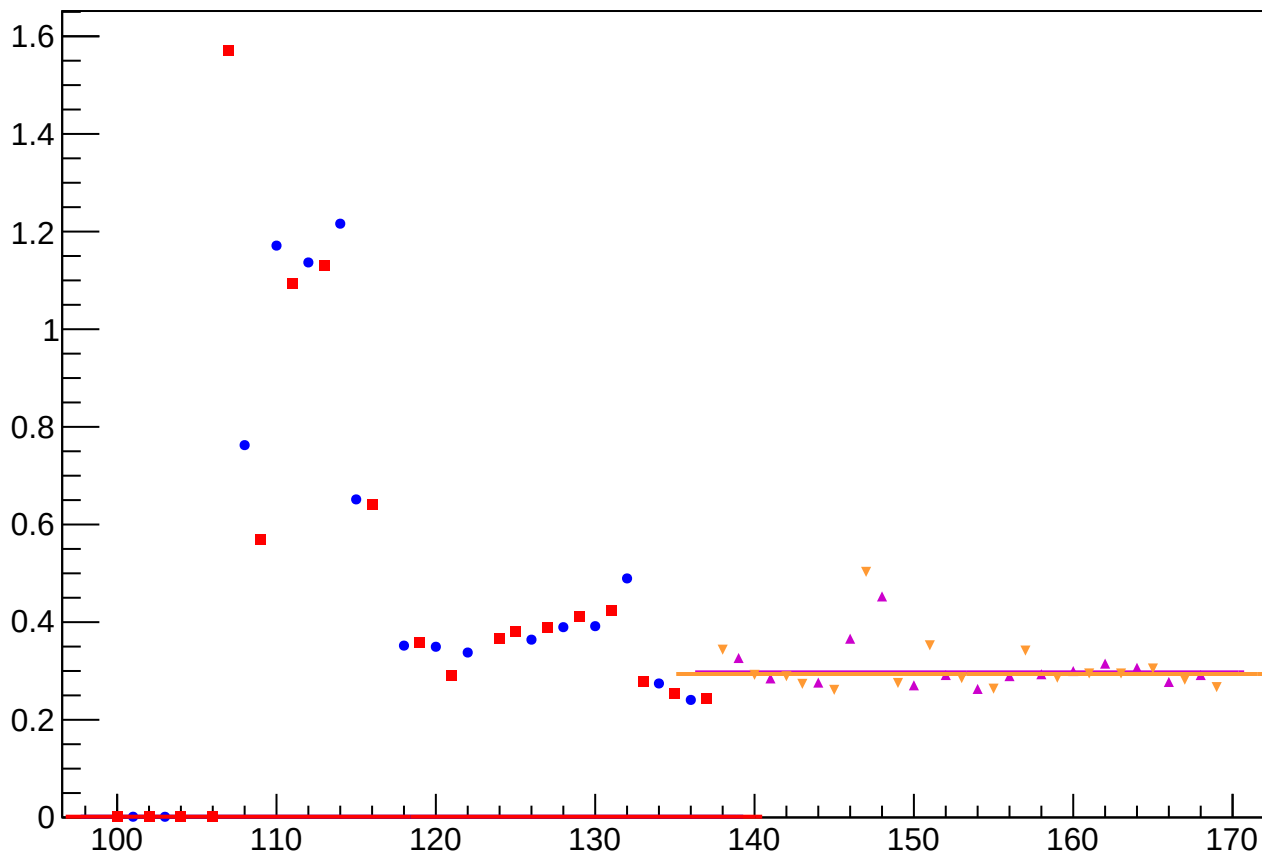
Right: 52.689+/-0.000 χ^2/NDF : 417568081486015.0

In: 61.625+/-0.000 χ^2/NDF : 1538100964498.6/30

Out: 44.756+/-0.000 χ^2/NDF : 366964743935125.1

All: 52.656+/-0.000 χ^2/NDF : 4195817391531.0

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 11024564.1/15

Left Out: 0.294+/-0.000 χ^2/NDF :466103.4/16

Right Out: 0.002+/-0.000 χ^2/NDF : 10559220.1/18

Left In: 0.297+/-0.000 χ^2/NDF :331041.6/14

Left: 0.295+/-0.000 χ^2/NDF : 798715.0/31

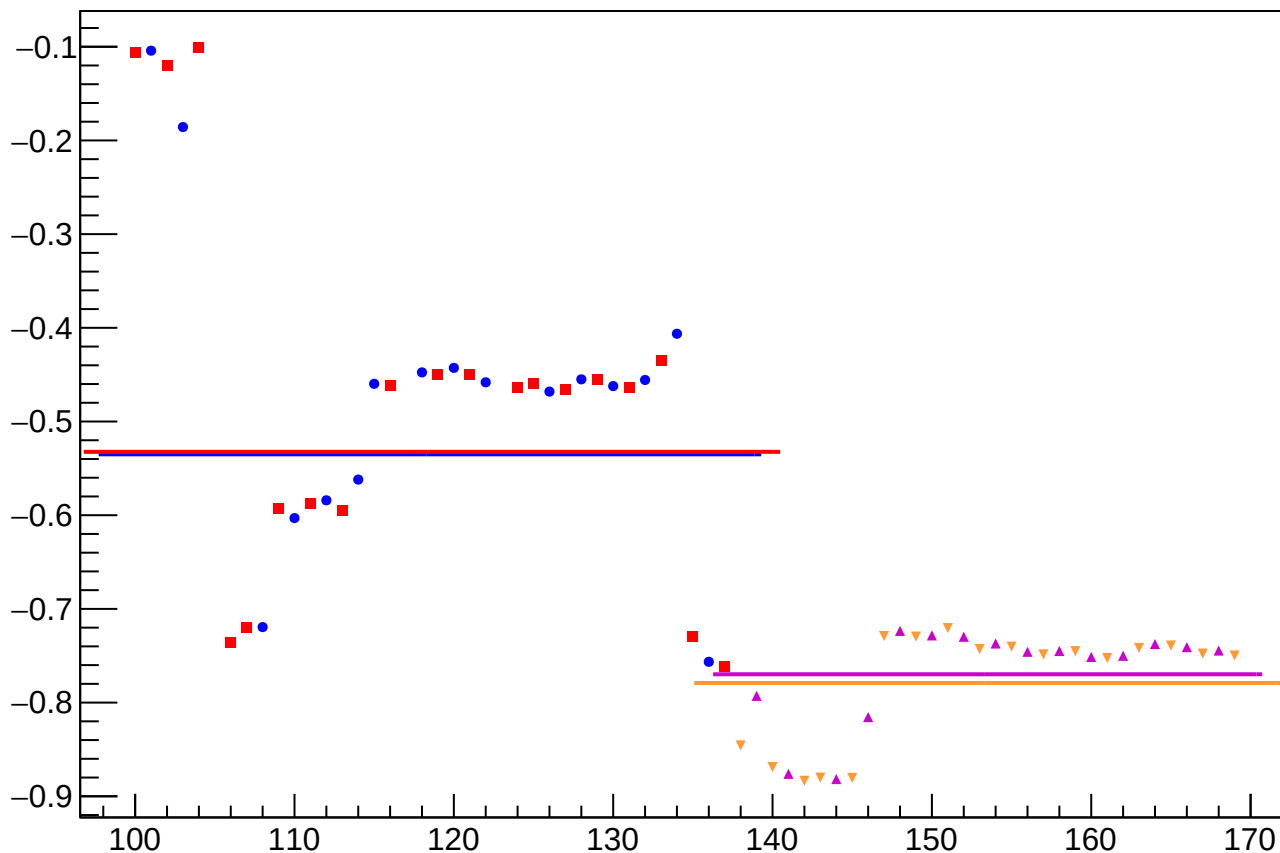
Right: 0.002+/-0.000 χ^2/NDF : 21583912.3/34

In: 0.002+/-0.000 χ^2/NDF :34582741.8/30

Out: 0.002+/-0.000 χ^2/NDF :36156437.1/35

All: 0.002+/-0.000 χ^2/NDF : 70739256.4/66

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.535 ± 0.000 $\chi^2/\text{NDF}: 300846309.5/15$

Left Out: -0.779 ± 0.000 $\chi^2/\text{NDF}: 109230197.5/16$

Right Out: -0.532 ± 0.000 $\chi^2/\text{NDF}: 214124648.5/18$

Left In: -0.770 ± 0.000 $\chi^2/\text{NDF}: 76162654.5/14$

Left: -0.775 ± 0.000 $\chi^2/\text{NDF}: 186575066.2/31$

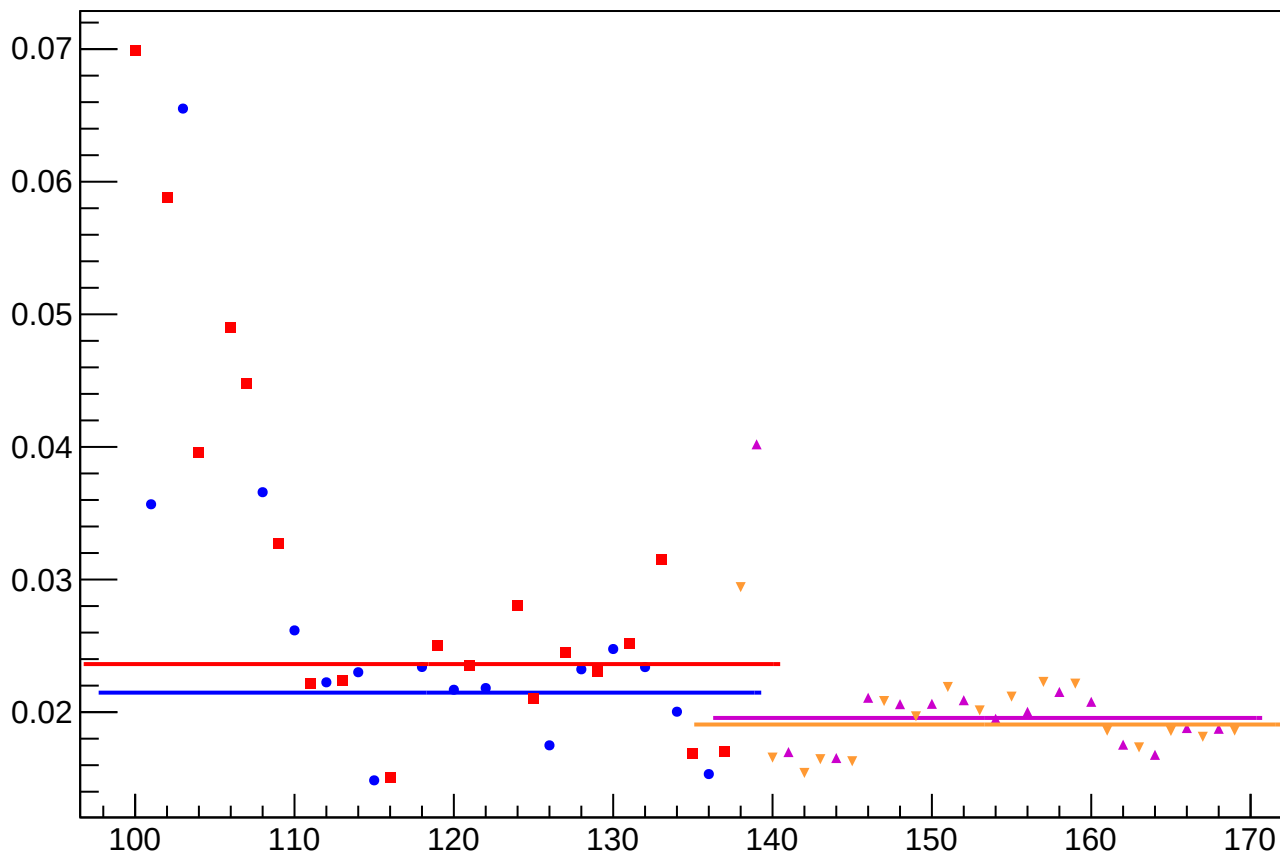
Right: -0.534 ± 0.000 $\chi^2/\text{NDF}: 515008587.7/34$

In: -0.697 ± 0.000 $\chi^2/\text{NDF}: 818997858.8/30$

Out: -0.716 ± 0.000 $\chi^2/\text{NDF}: 777045736.3/35$

All: -0.707 ± 0.000 $\chi^2/\text{NDF}: 1603286257.5/6$

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 1153987.6/15

Left Out: 0.019+/-0.000 χ^2/NDF : 410481.3/16

Right Out: 0.024+/-0.000 χ^2/NDF : 1277268.6/18

Left In: 0.020+/-0.000 χ^2/NDF : 602947.6/14

Left: 0.019+/-0.000 χ^2/NDF : 1020170.1/31

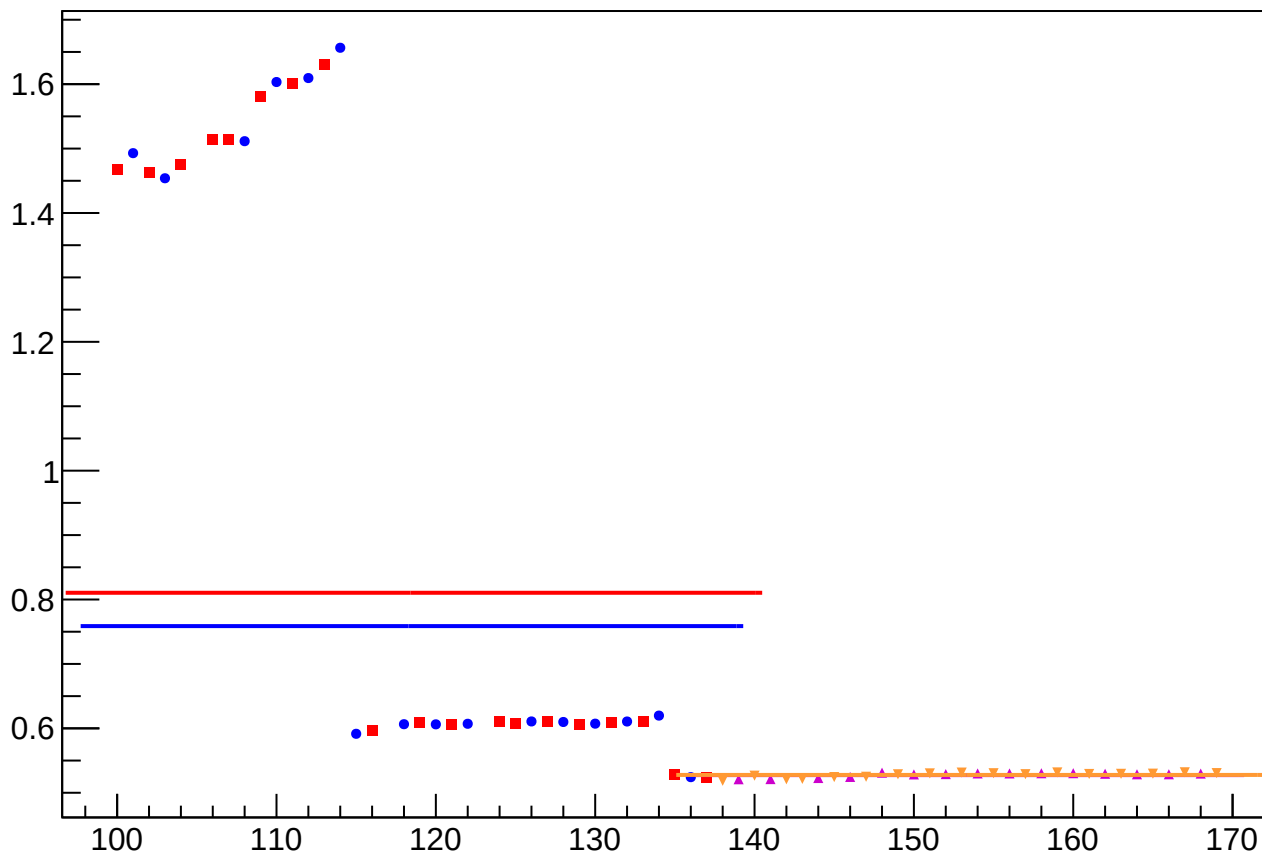
Right: 0.022+/-0.000 χ^2/NDF : 2481109.4/34

In: 0.020+/-0.000 χ^2/NDF : 1815320.6/30

Out: 0.020+/-0.000 χ^2/NDF : 1997343.1/35

All: 0.020+/-0.000 χ^2/NDF : 3812856.3/66

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.759+/-0.000

χ^2/NDF : 4304169889.2/15

Left: 0.528+/-0.000

χ^2/NDF : 2313411.2/31

Left Out: 0.528+/-0.000

χ^2/NDF :1344369.9/16

Right: 0.784+/-0.000

χ^2/NDF : 9114268233.2/34

Right Out: 0.810+/-0.000

χ^2/NDF : 4769381416.8/18

In: 0.593+/-0.000

χ^2/NDF :5510386111.8/30

Out: 0.599+/-0.000

χ^2/NDF :6525856920.4/35

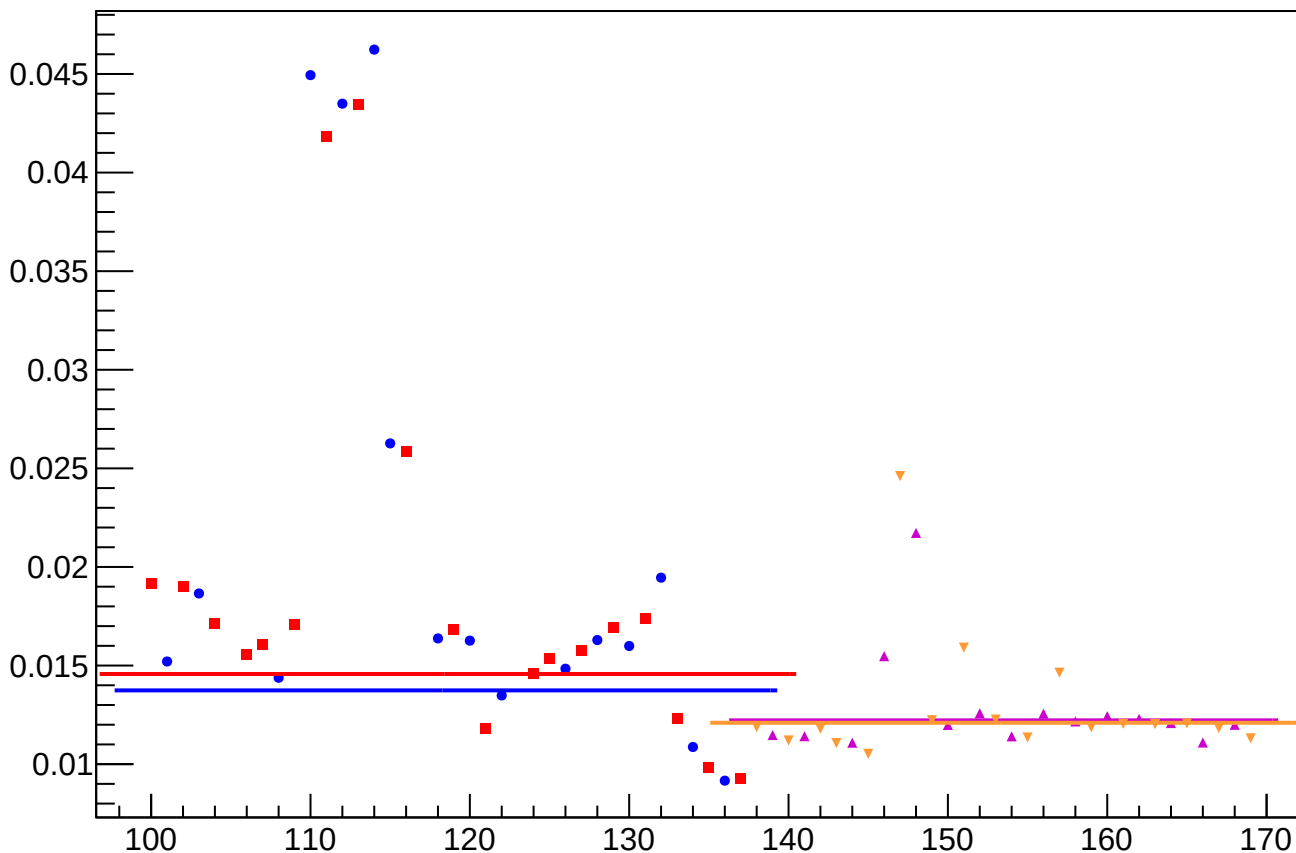
Left In: 0.527+/-0.000

χ^2/NDF :965693.5/14

All: 0.596+/-0.000

χ^2/NDF : 12038105064.8/6

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1649769.2/15

Left Out: 0.012+/-0.000 χ^2/NDF : 623699.9/16

Right Out: 0.015+/-0.000 χ^2/NDF : 1455054.4/18

Left In: 0.012+/-0.000 χ^2/NDF : 430033.4/14

Left: 0.012+/-0.000 χ^2/NDF : 1054967.5/31

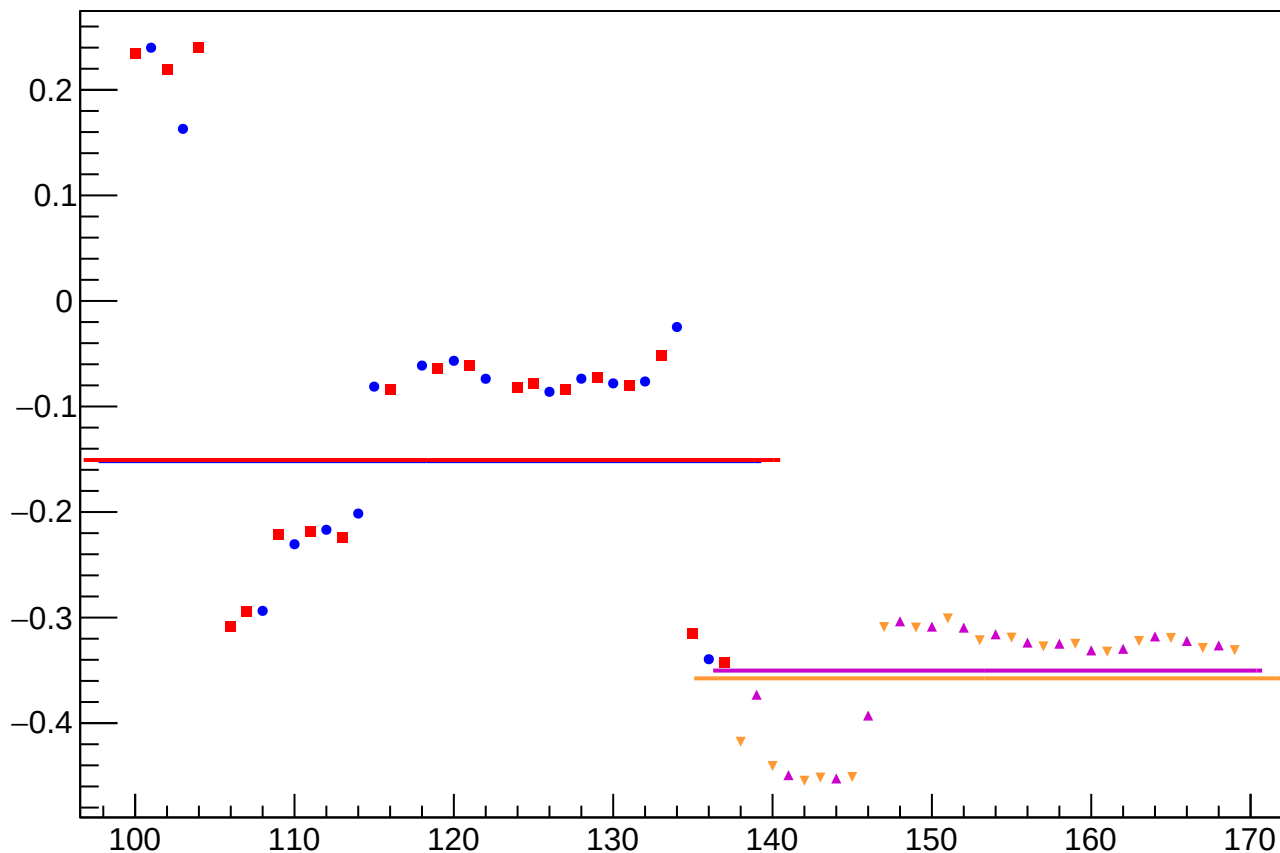
Right: 0.014+/-0.000 χ^2/NDF : 3125814.5/34

In: 0.013+/-0.000 χ^2/NDF : 2183889.2/30

Out: 0.013+/-0.000 χ^2/NDF : 2347224.4/35

All: 0.013+/-0.000 χ^2/NDF : 4531653.6/66

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.152 ± 0.000 $\chi^2/\text{NDF}: 276791709.3/15$

Left Out: -0.358 ± 0.000 $\chi^2/\text{NDF}: 105397941.8/16$

Right Out: -0.151 ± 0.000 $\chi^2/\text{NDF}: 199410234.4/18$

Left In: -0.350 ± 0.000 $\chi^2/\text{NDF}: 76596194.0/14$

Left: -0.354 ± 0.000 $\chi^2/\text{NDF}: 182784277.2/31$

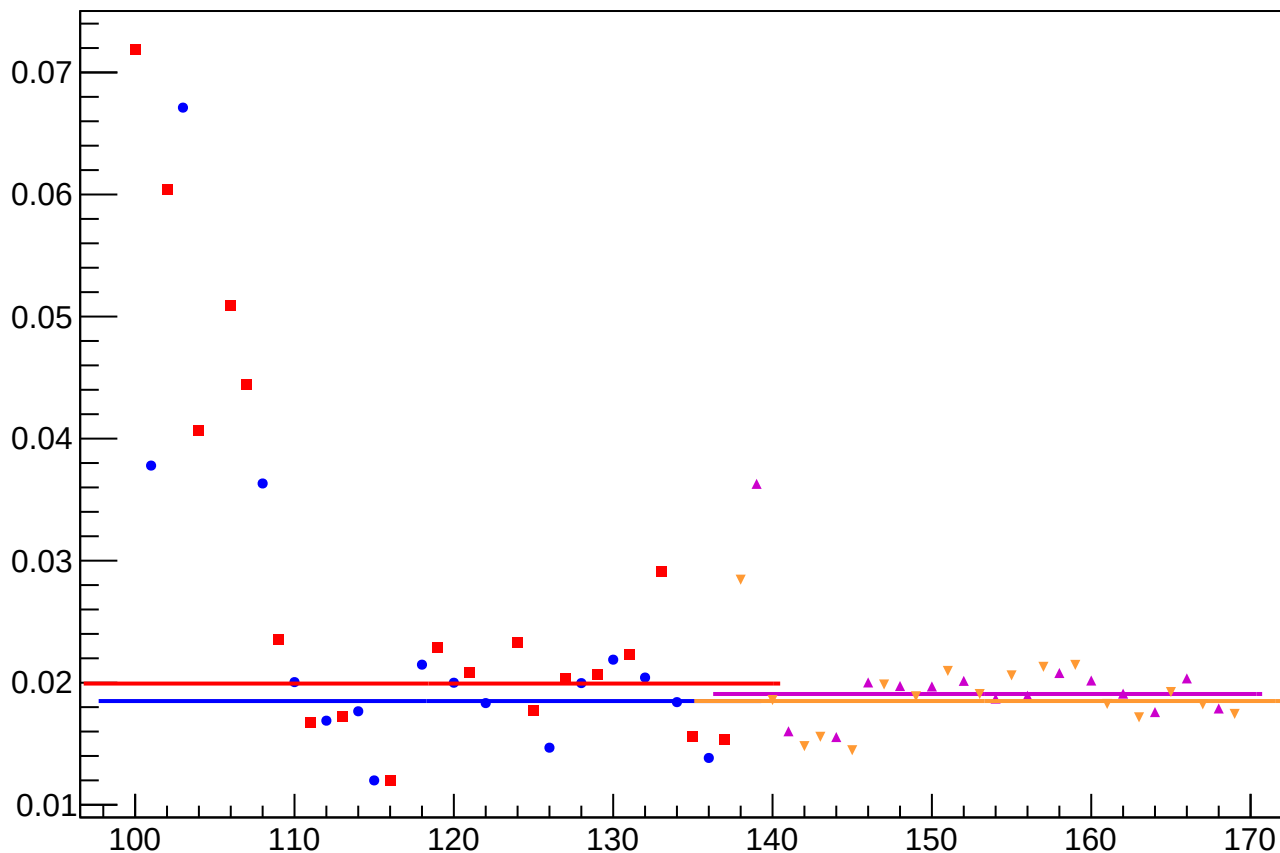
Right: -0.151 ± 0.000 $\chi^2/\text{NDF}: 476210345.8/34$

In: -0.279 ± 0.000 $\chi^2/\text{NDF}: 742296241.4/30$

Out: -0.295 ± 0.000 $\chi^2/\text{NDF}: 713604750.1/35$

All: -0.287 ± 0.000 $\chi^2/\text{NDF}: 1461466332.4/6$

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 1372359.1/15

Left Out: 0.018+/-0.000 χ^2/NDF : 440933.9/16

Right Out: 0.020+/-0.000 χ^2/NDF : 1547561.3/18

Left In: 0.019+/-0.000 χ^2/NDF : 535122.1/14

Left: 0.019+/-0.000 χ^2/NDF : 985862.0/31

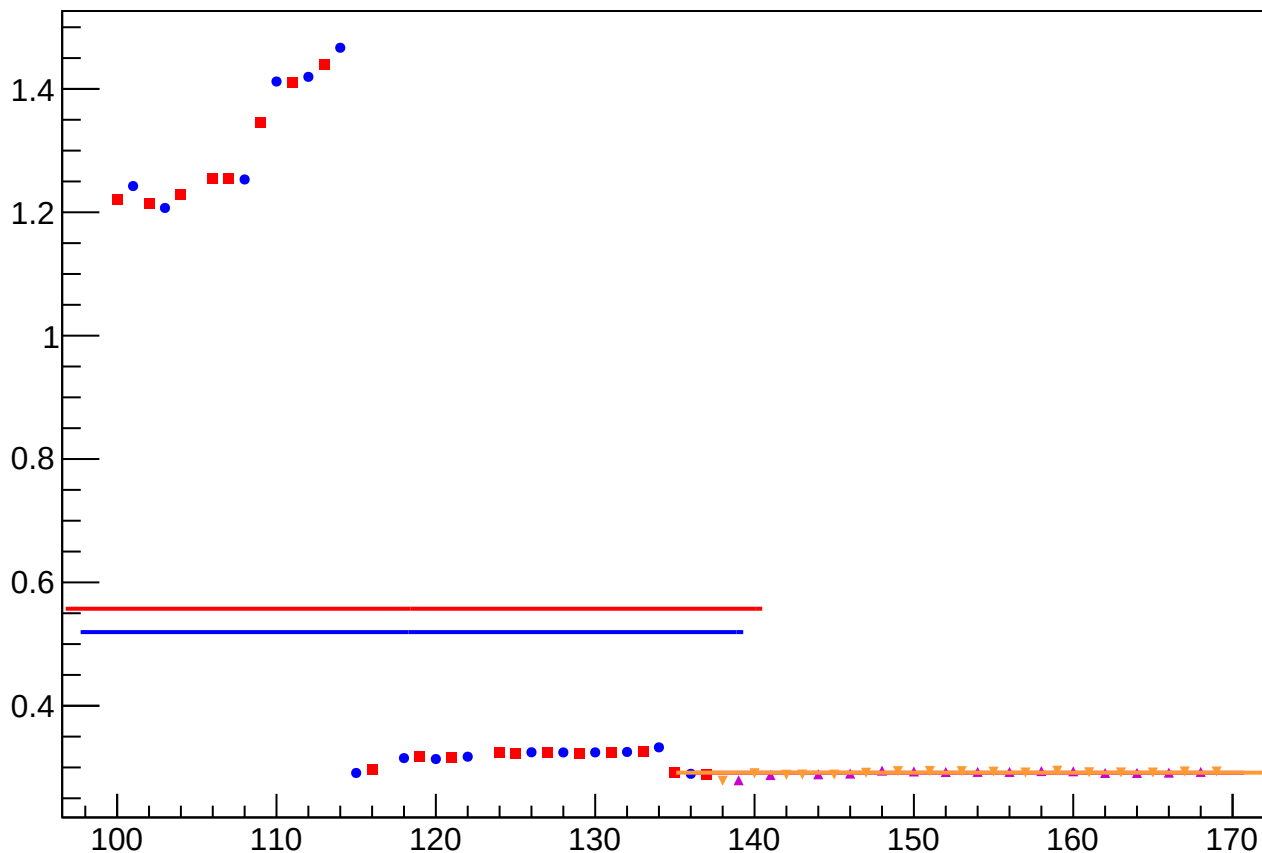
Right: 0.019+/-0.000 χ^2/NDF : 2949710.8/34

In: 0.019+/-0.000 χ^2/NDF : 1914107.2/30

Out: 0.019+/-0.000 χ^2/NDF : 2027650.1/35

All: 0.019+/-0.000 χ^2/NDF : 3941937.6/66

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.519+/-0.000 χ^2/NDF : 6319132275.3/15

Left Out: 0.292+/-0.000 χ^2/NDF :1195825.0/16

Right Out: 0.557+/-0.000 χ^2/NDF : 6746144835.5/18

Left In: 0.291+/-0.000 χ^2/NDF :1186064.8/14

Left: 0.291+/-0.000 χ^2/NDF : 2384162.7/31

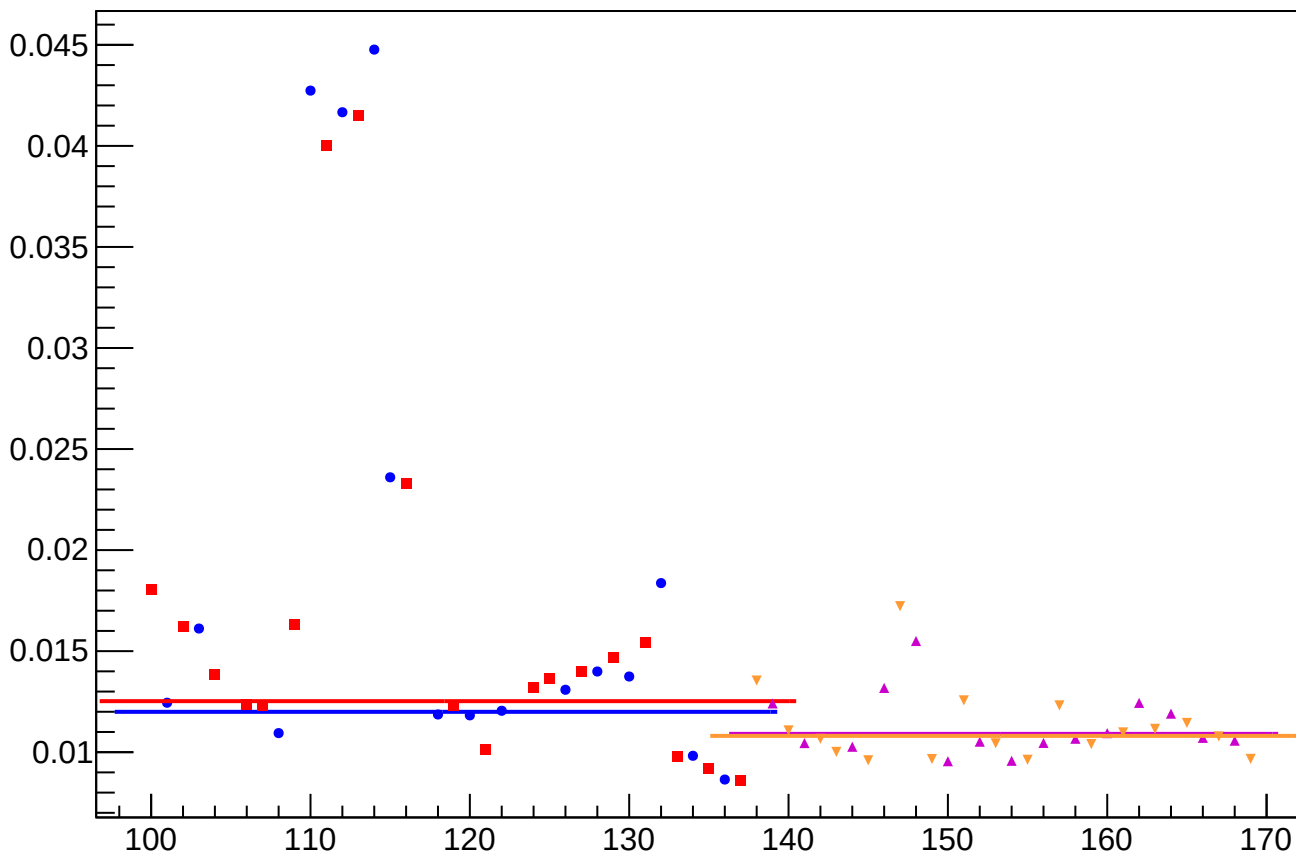
Right: 0.538+/-0.000 χ^2/NDF : 13094140546.7/34

In: 0.359+/-0.000 χ^2/NDF :7837137908.2/30

Out: 0.362+/-0.000 χ^2/NDF :8775373688.0/35

All: 0.360+/-0.000 χ^2/NDF : 16613154604.1/6

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1491608.2/15

Left Out: 0.011+/-0.000 χ^2/NDF : 451927.5/16

Right Out: 0.013+/-0.000 χ^2/NDF : 1434210.5/18

Left In: 0.011+/-0.000 χ^2/NDF : 331265.4/14

Left: 0.011+/-0.000 χ^2/NDF : 784216.3/31

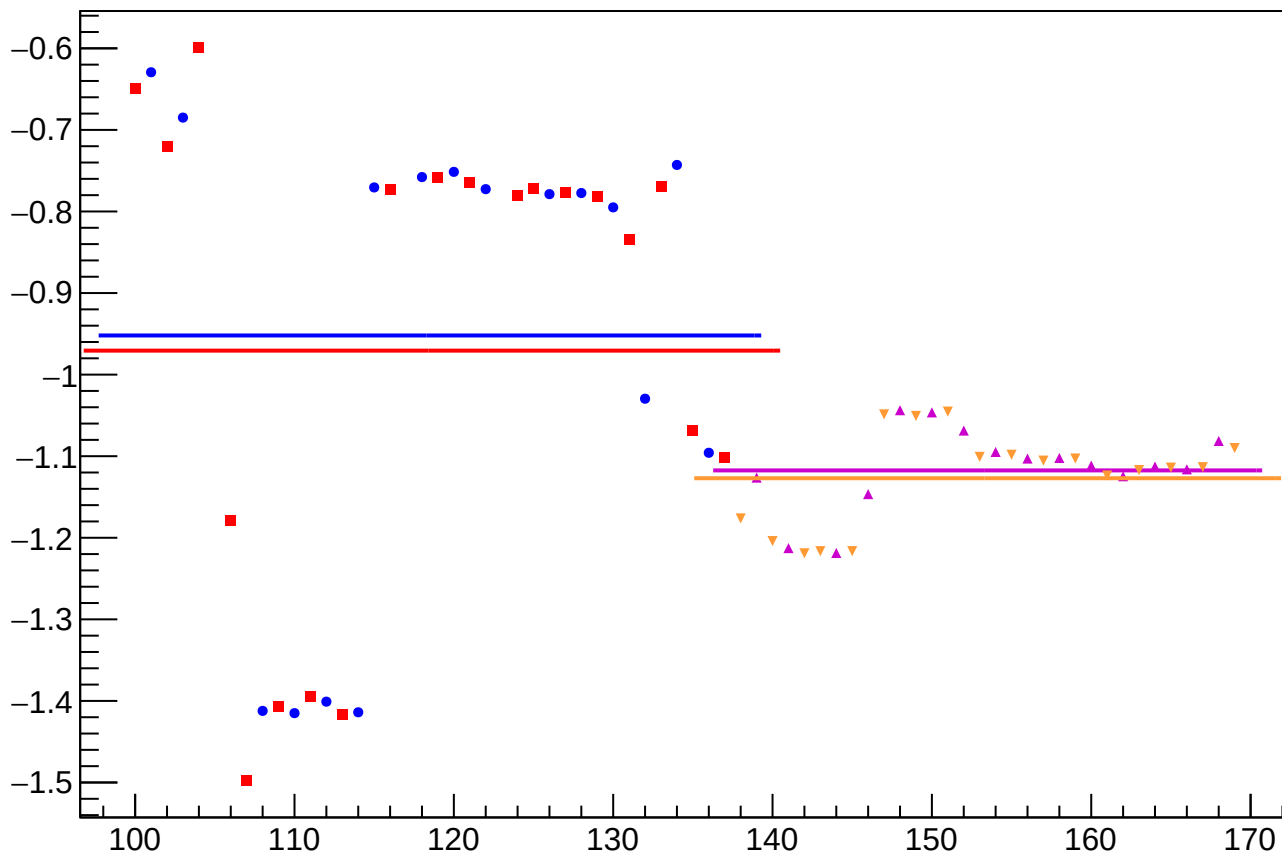
Right: 0.012+/-0.000 χ^2/NDF : 2937026.7/34

In: 0.011+/-0.000 χ^2/NDF : 1892254.5/30

Out: 0.011+/-0.000 χ^2/NDF : 2055699.8/35

All: 0.011+/-0.000 χ^2/NDF : 3948102.2/66

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.952+/-0.000 χ^2/NDF : 699468857.6/15

Left Out: -1.127+/-0.000 χ^2/NDF : 101153642.3/16

Right Out: -0.971+/-0.000 χ^2/NDF : 714505458.0/18

Left In: -1.117+/-0.000 χ^2/NDF : 74614645.7/14

Left: -1.123+/-0.000 χ^2/NDF : 177093780.4/31

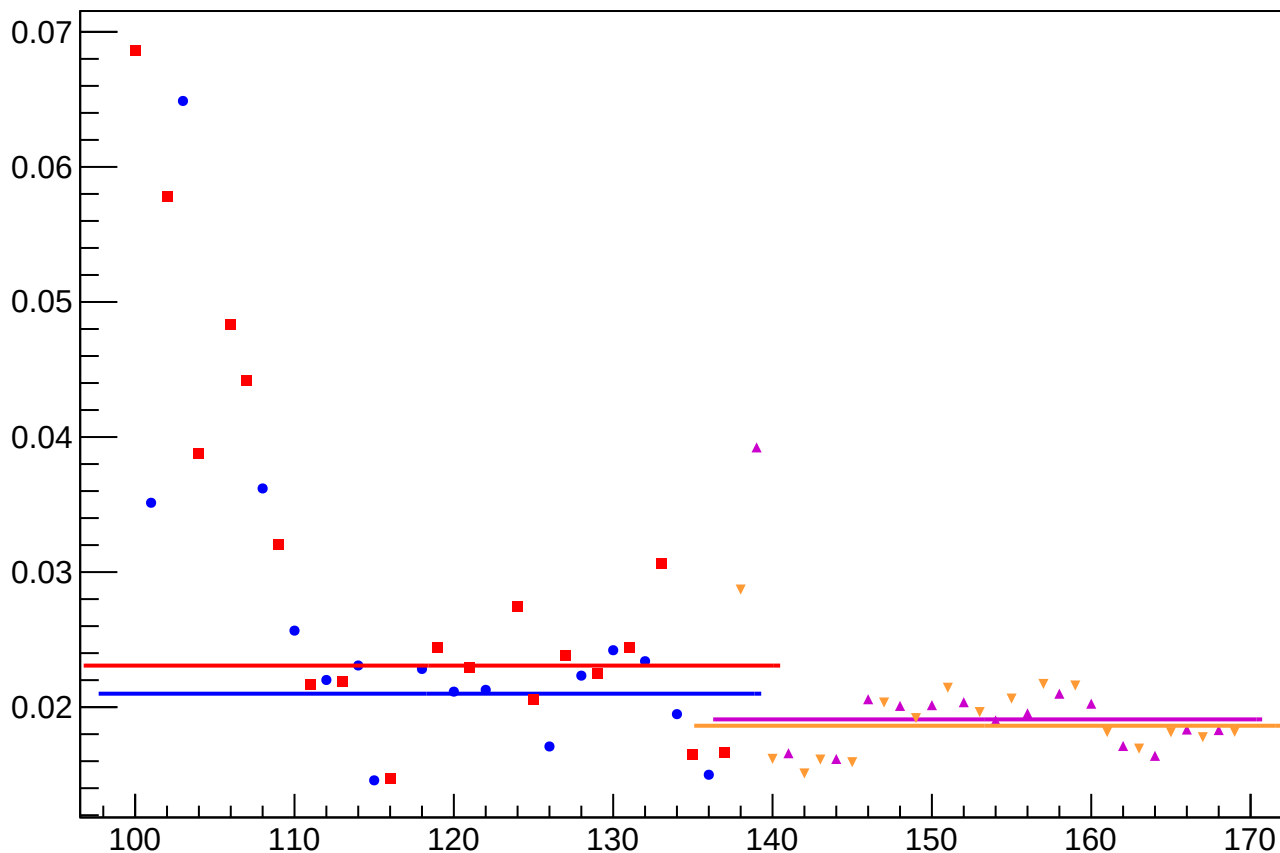
Right: -0.961+/-0.000 χ^2/NDF : 1415910427.1/34

In: -1.066+/-0.000 χ^2/NDF : 1003587724.3/30

Out: -1.087+/-0.000 χ^2/NDF : 1006354392.2/35

All: -1.077+/-0.000 χ^2/NDF : 2018877125.1/6

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 1166992.9/15

Left Out: 0.019+/-0.000 χ^2/NDF : 406570.5/16

Right Out: 0.023+/-0.000 χ^2/NDF : 1281311.4/18

Left In: 0.019+/-0.000 χ^2/NDF : 601304.6/14

Left: 0.019+/-0.000 χ^2/NDF : 1014239.5/31

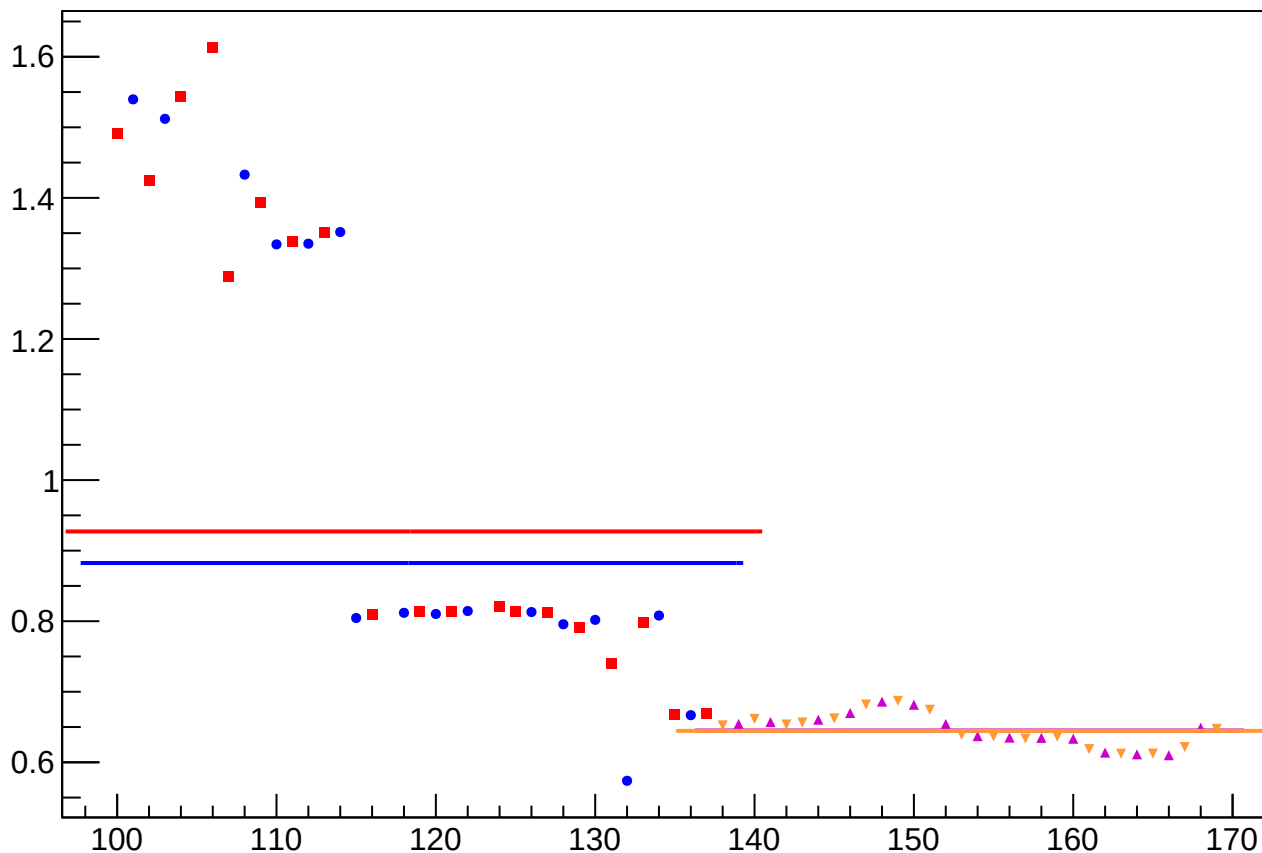
Right: 0.022+/-0.000 χ^2/NDF : 2496865.9/34

In: 0.020+/-0.000 χ^2/NDF : 1829074.3/30

Out: 0.020+/-0.000 χ^2/NDF : 1996974.1/35

All: 0.020+/-0.000 χ^2/NDF : 3826246.3/66

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.882+/-0.000 χ^2/NDF : 2784156746.4/15

Left Out: 0.645+/-0.000 χ^2/NDF : 38301513.3/16

Right Out: 0.927+/-0.000 χ^2/NDF : 2762998321.3/18

Left In: 0.645+/-0.000 χ^2/NDF : 34203632.8/14

Left: 0.645+/-0.000 χ^2/NDF : 72517923.2/31

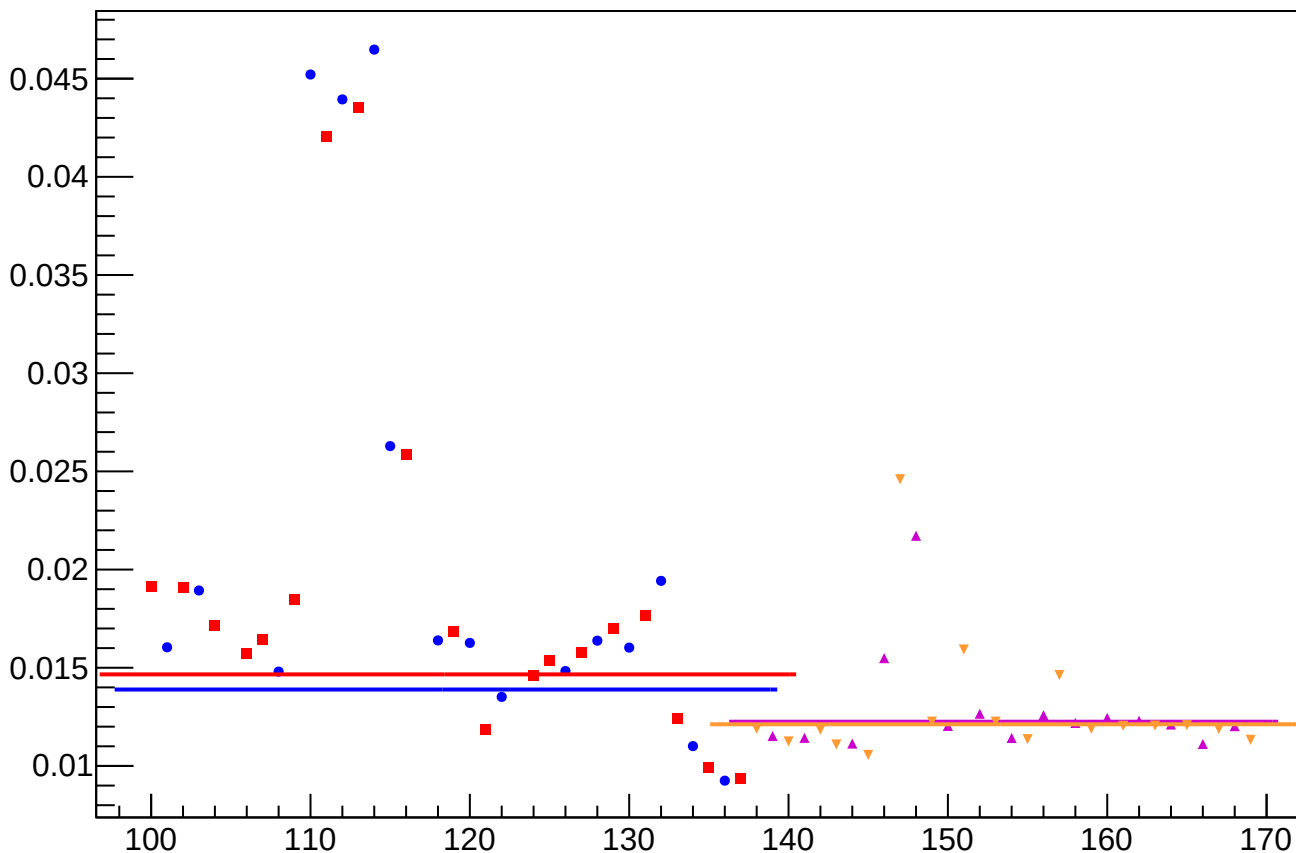
Right: 0.904+/-0.000 χ^2/NDF : 5576917007.9/34

In: 0.712+/-0.000 χ^2/NDF : 4061757452.2/30

Out: 0.715+/-0.000 χ^2/NDF : 4529652589.8/35

All: 0.714+/-0.000 χ^2/NDF : 8592061171.0/66

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1646691.8/15

Left Out: 0.012+/-0.000 χ^2/NDF : 618413.7/16

Right Out: 0.015+/-0.000 χ^2/NDF : 1467025.6/18

Left In: 0.012+/-0.000 χ^2/NDF : 426703.9/14

Left: 0.012+/-0.000 χ^2/NDF : 1046511.1/31

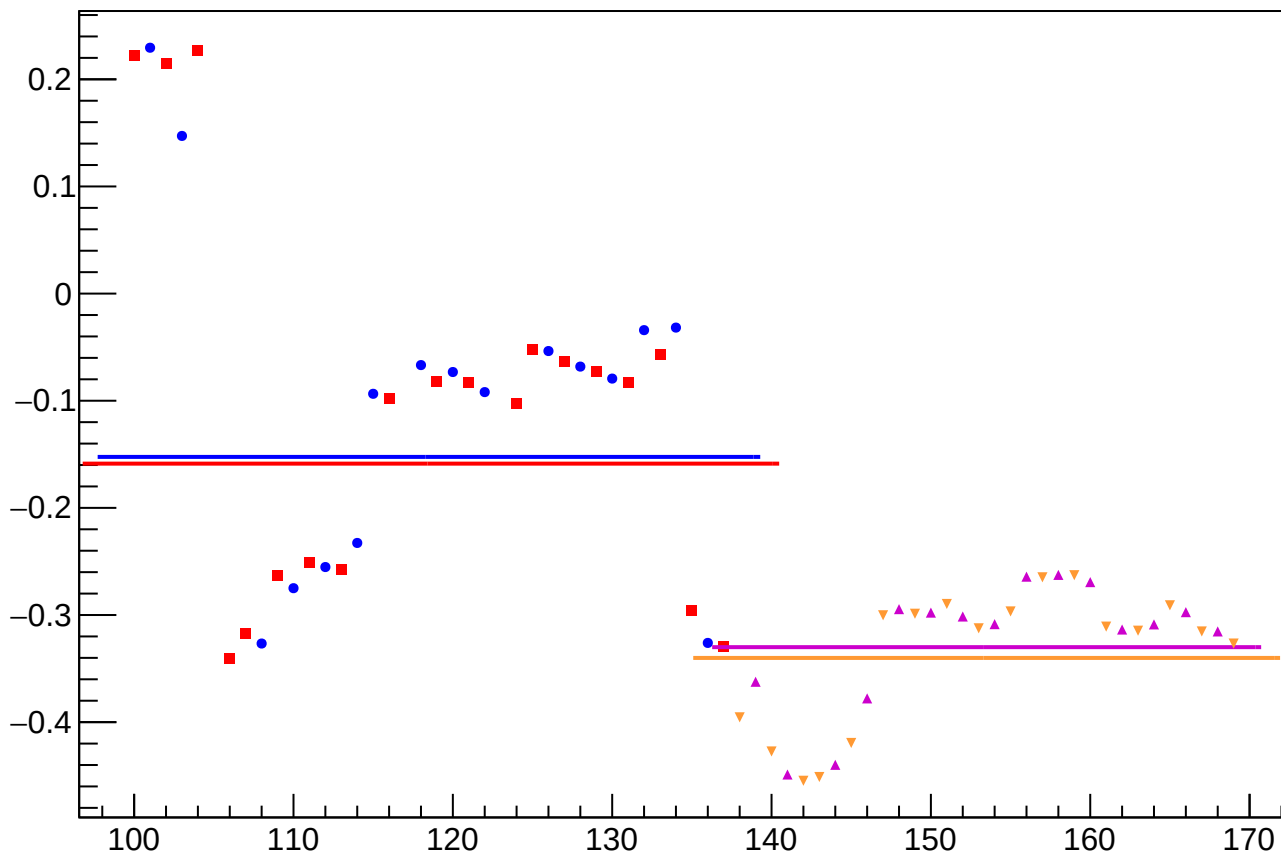
Right: 0.014+/-0.000 χ^2/NDF : 3131409.7/34

In: 0.013+/-0.000 χ^2/NDF : 2192091.0/30

Out: 0.013+/-0.000 χ^2/NDF : 2364844.5/35

All: 0.013+/-0.000 χ^2/NDF : 4557157.2/66

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.152 ± 0.000 χ^2/NDF : 274261842.6/15

Left Out: -0.340 ± 0.000 χ^2/NDF : 123752771.5/16

Right Out: -0.159 ± 0.000 χ^2/NDF : 195614120.0/18

Left In: -0.330 ± 0.000 χ^2/NDF : 103365746.6/14

Left: -0.335 ± 0.000 χ^2/NDF : 228599745.2/31

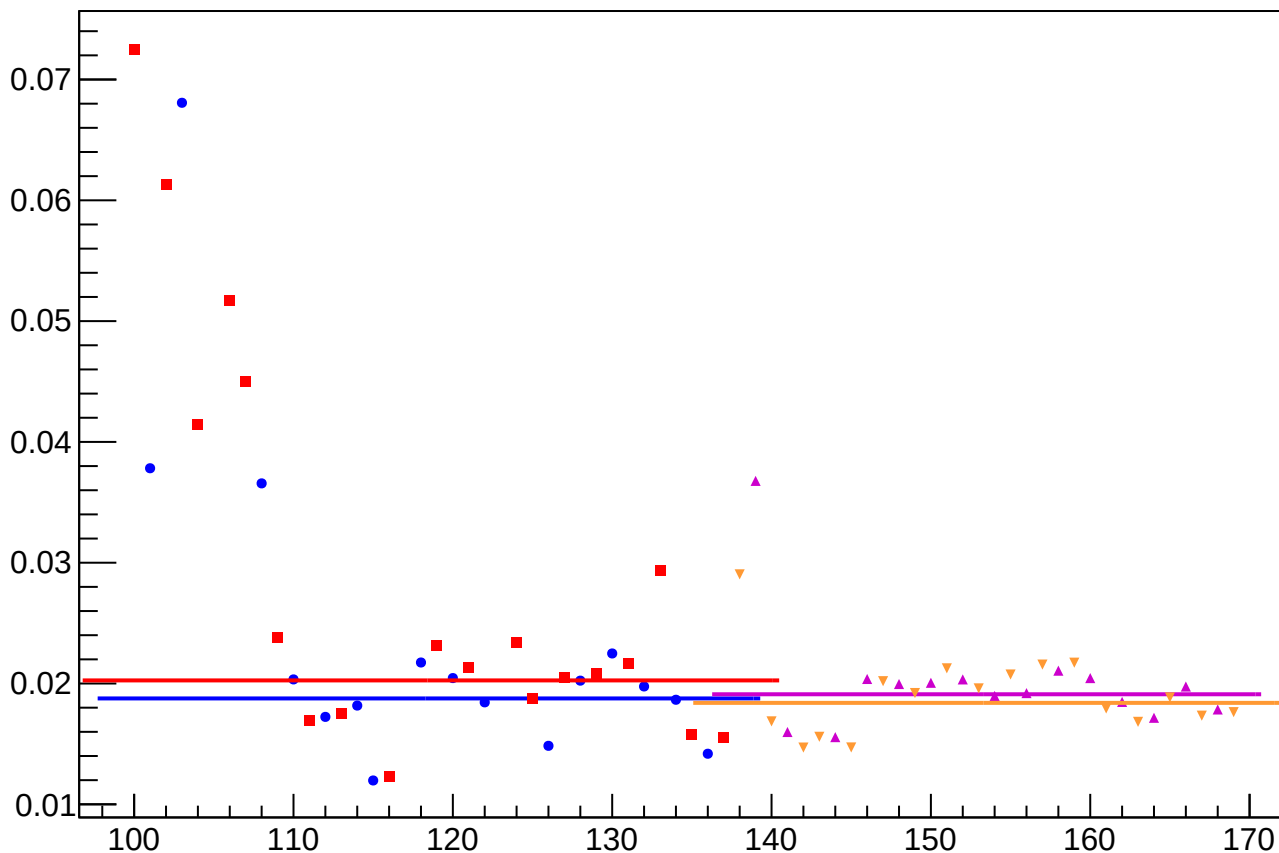
Right: -0.155 ± 0.000 χ^2/NDF : 470153865.7/34

In: -0.267 ± 0.000 χ^2/NDF : 682584033.4/30

Out: -0.286 ± 0.000 χ^2/NDF : 626807689.2/35

All: -0.277 ± 0.000 χ^2/NDF : 1317703707.4/6

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1349412.3/15

Left Out: 0.018+/-0.000 χ^2/NDF : 486992.8/16

Right Out: 0.020+/-0.000 χ^2/NDF : 1529624.9/18

Left In: 0.019+/-0.000 χ^2/NDF : 561962.7/14

Left: 0.019+/-0.000 χ^2/NDF : 1063805.4/31

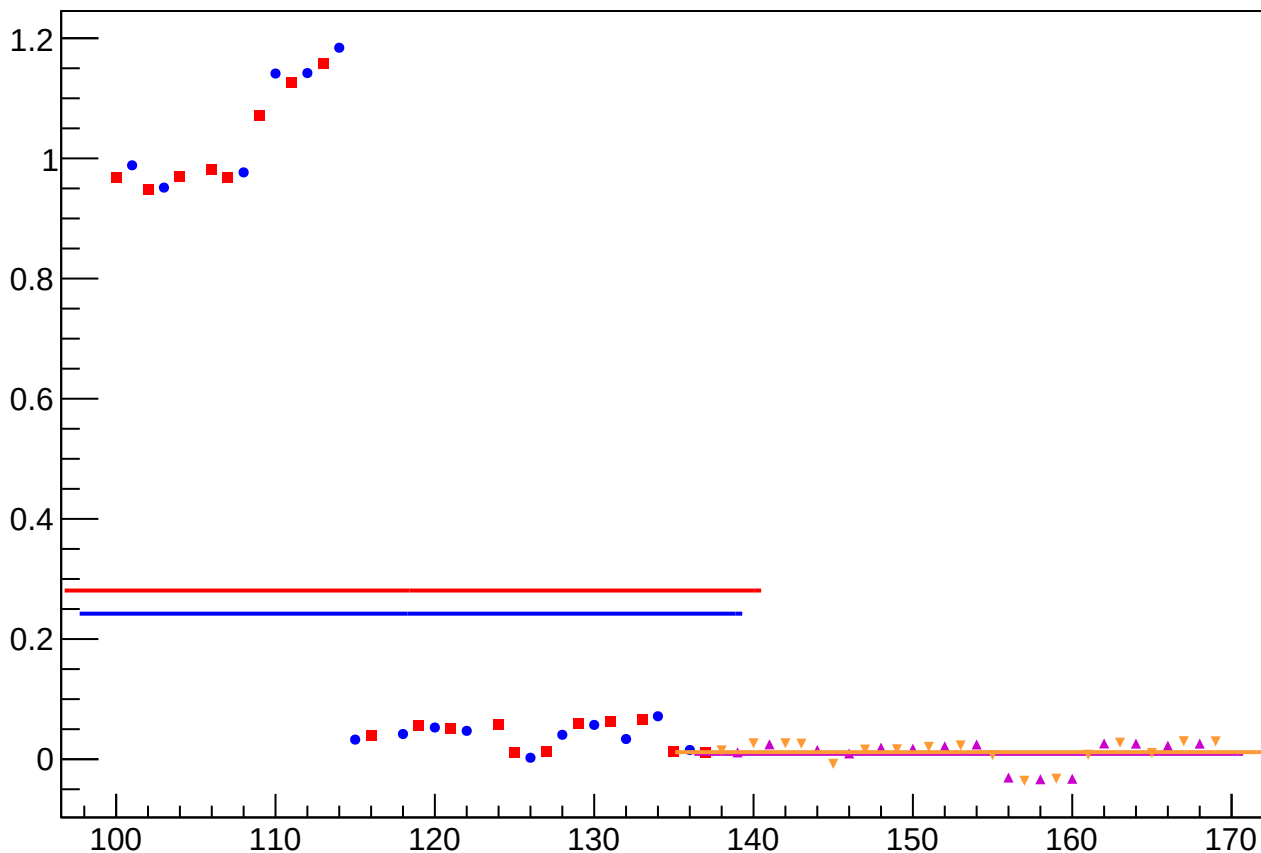
Right: 0.019+/-0.000 χ^2/NDF : 2910384.5/34

In: 0.019+/-0.000 χ^2/NDF : 1913684.6/30

Out: 0.019+/-0.000 χ^2/NDF : 2081217.7/35

All: 0.019+/-0.000 χ^2/NDF : 3994973.6/66

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.242+/-0.000 χ^2/NDF : 6507444426.7/15

Left Out: 0.012+/-0.000 χ^2/NDF : 44201370.6/16

Right Out: 0.281+/-0.000 χ^2/NDF : 6757631639.3/18

Left In: 0.009+/-0.000 χ^2/NDF : 51209807.5/14

Left: 0.010+/-0.000 χ^2/NDF : 95844975.2/31

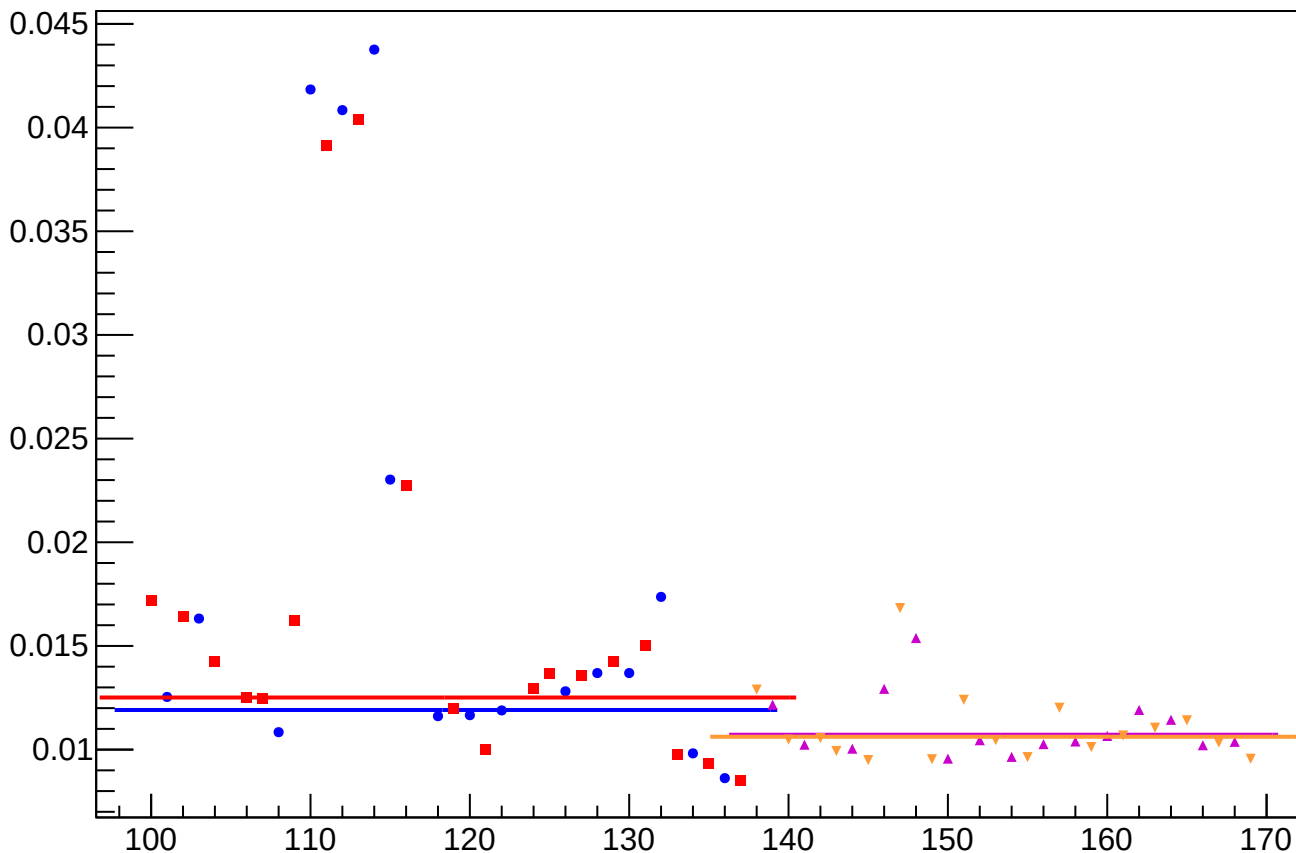
Right: 0.261+/-0.000 χ^2/NDF : 13295182324.5/34

In: 0.077+/-0.000 χ^2/NDF : 8180828808.7/30

Out: 0.081+/-0.000 χ^2/NDF : 8904925423.8/35

All: 0.079+/-0.000 χ^2/NDF : 17086972412.2/66

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1459428.8/15

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:418481.4/16

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1392455.1/18

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:306410.3/14

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 725895.3/31

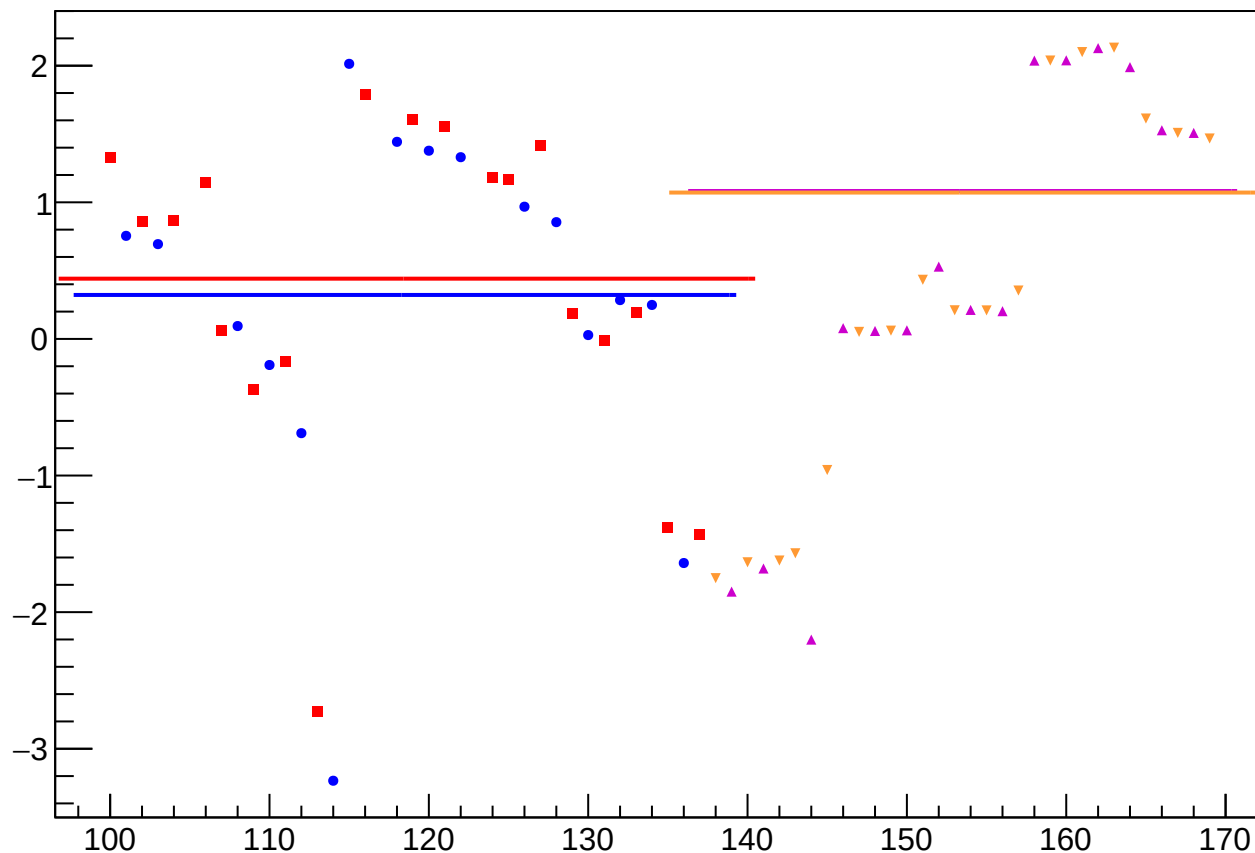
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 2866610.3/34

In: 0.011 $\pm$ 0.000 χ^2 /NDF:1850646.7/30

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:2019052.5/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 3869968.8/66

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: 0.322 $\pm$ 0.000 χ^2 /NDF: 1664983742.5/15

Left Out: 1.071 $\pm$ 0.000 χ^2 /NDF: 29057311156.2/16

Right Out: 0.441 $\pm$ 0.000 χ^2 /NDF: 1796703168.4/18

Left In: 1.083 $\pm$ 0.000 χ^2 /NDF: 32876289490.8/14

Left: 1.077 $\pm$ 0.000 χ^2 /NDF: 61935914206.5/31

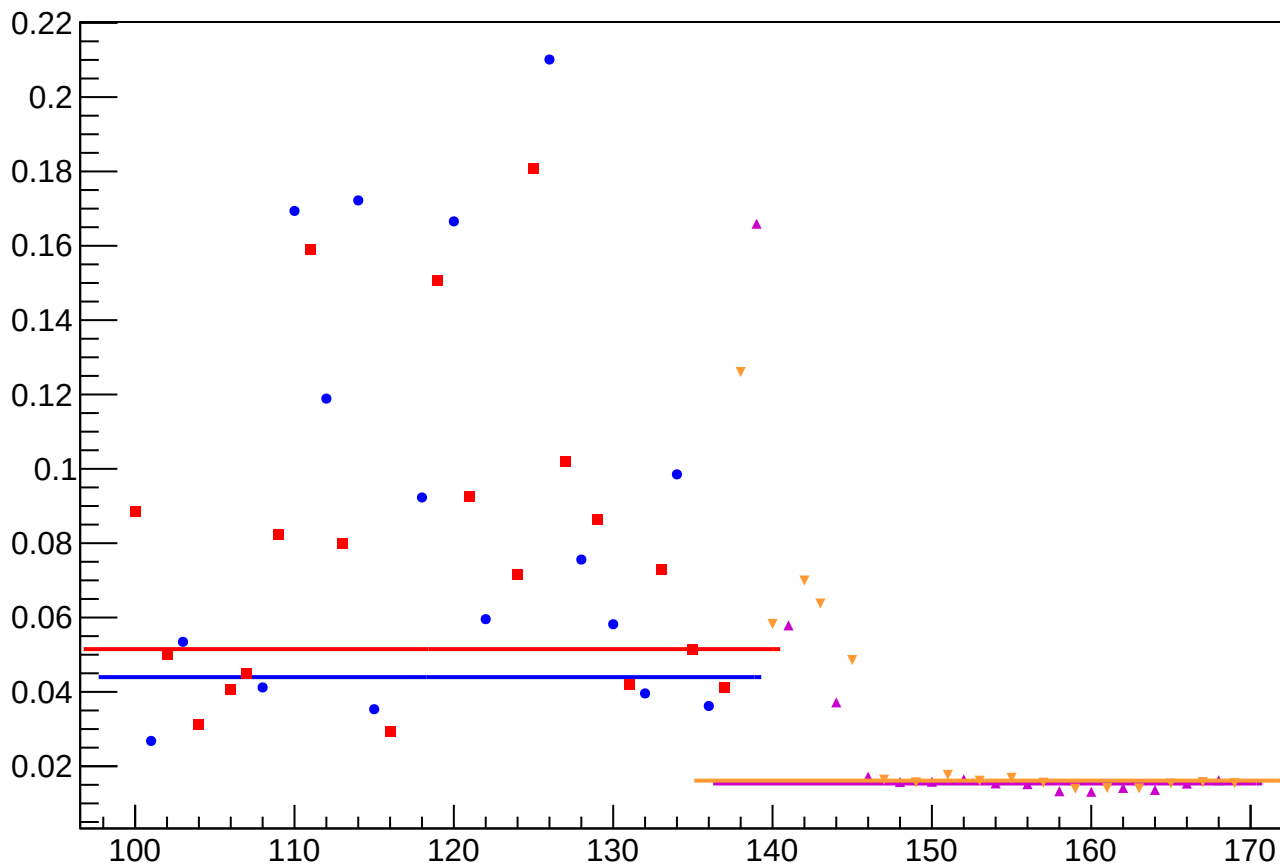
Right: 0.376 $\pm$ 0.000 χ^2 /NDF: 3474475474.1/34

In: 1.044 $\pm$ 0.000 χ^2 /NDF: 35632034775.0/30

Out: 1.044 $\pm$ 0.000 χ^2 /NDF: 31479634952.3/35

All: 1.044 $\pm$ 0.000 χ^2 /NDF: 67111670816.1/6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.044+/-0.000 χ^2/NDF : 2787474.8/15

Left Out: 0.016+/-0.000 χ^2/NDF : 2880948.9/16

Right Out: 0.052+/-0.000 χ^2/NDF : 2367478.8/18

Left In: 0.015+/-0.000 χ^2/NDF : 2148468.2/14

Left: 0.016+/-0.000 χ^2/NDF : 5051410.4/31

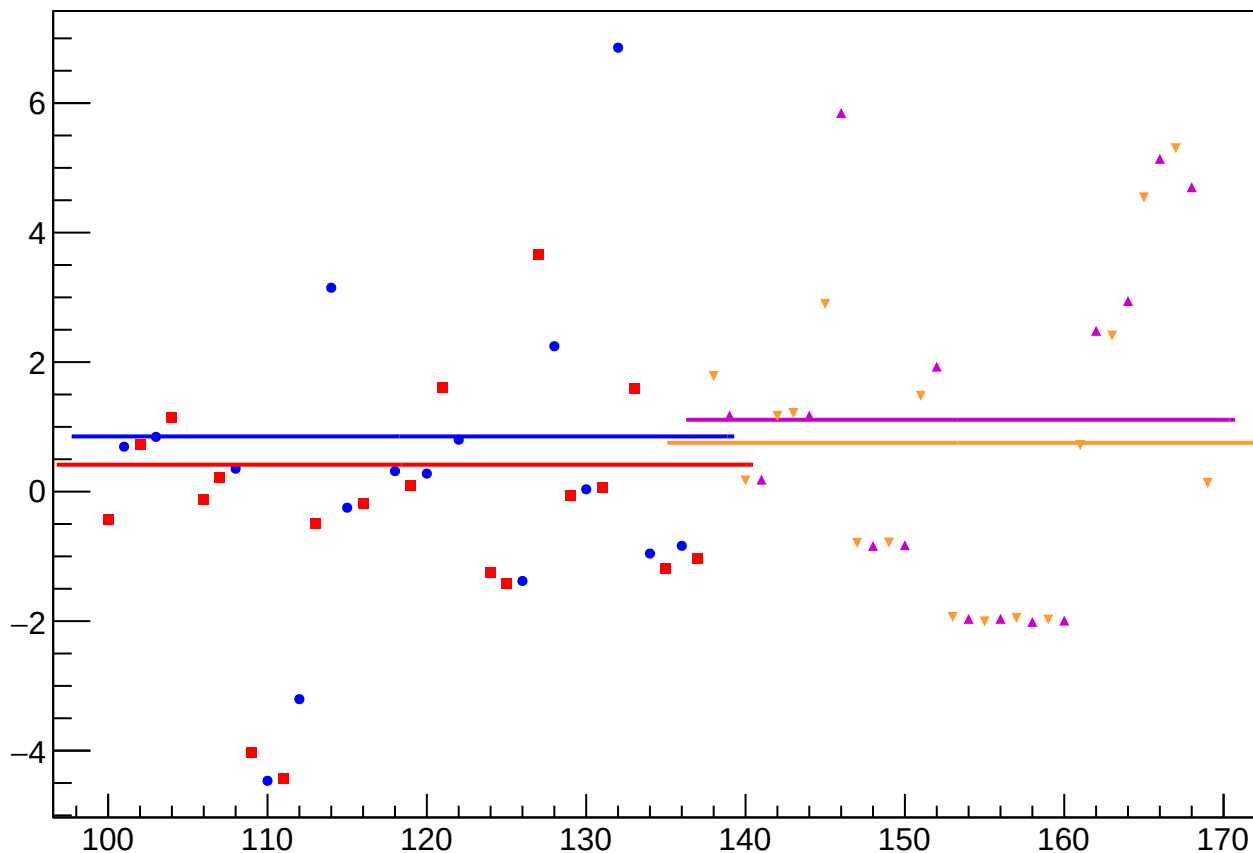
Right: 0.047+/-0.000 χ^2/NDF : 5257025.7/34

In: 0.017+/-0.000 χ^2/NDF : 8022353.1/30

Out: 0.018+/-0.000 χ^2/NDF : 9189149.2/35

All: 0.017+/-0.000 χ^2/NDF : 17240477.4/66

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.852 $\pm$ 0.000 χ^2/NDF : 11576037687.7/15

Left Out: 0.754 $\pm$ 0.000 χ^2/NDF :385072697537.9/16

Right Out: 0.416 $\pm$ 0.000 χ^2/NDF : 5121892038.7/18

Left In: 1.110 $\pm$ 0.000 χ^2/NDF :510148998381.0/14

Left: 0.931 $\pm$ 0.000 χ^2/NDF : 898925118370.7/31

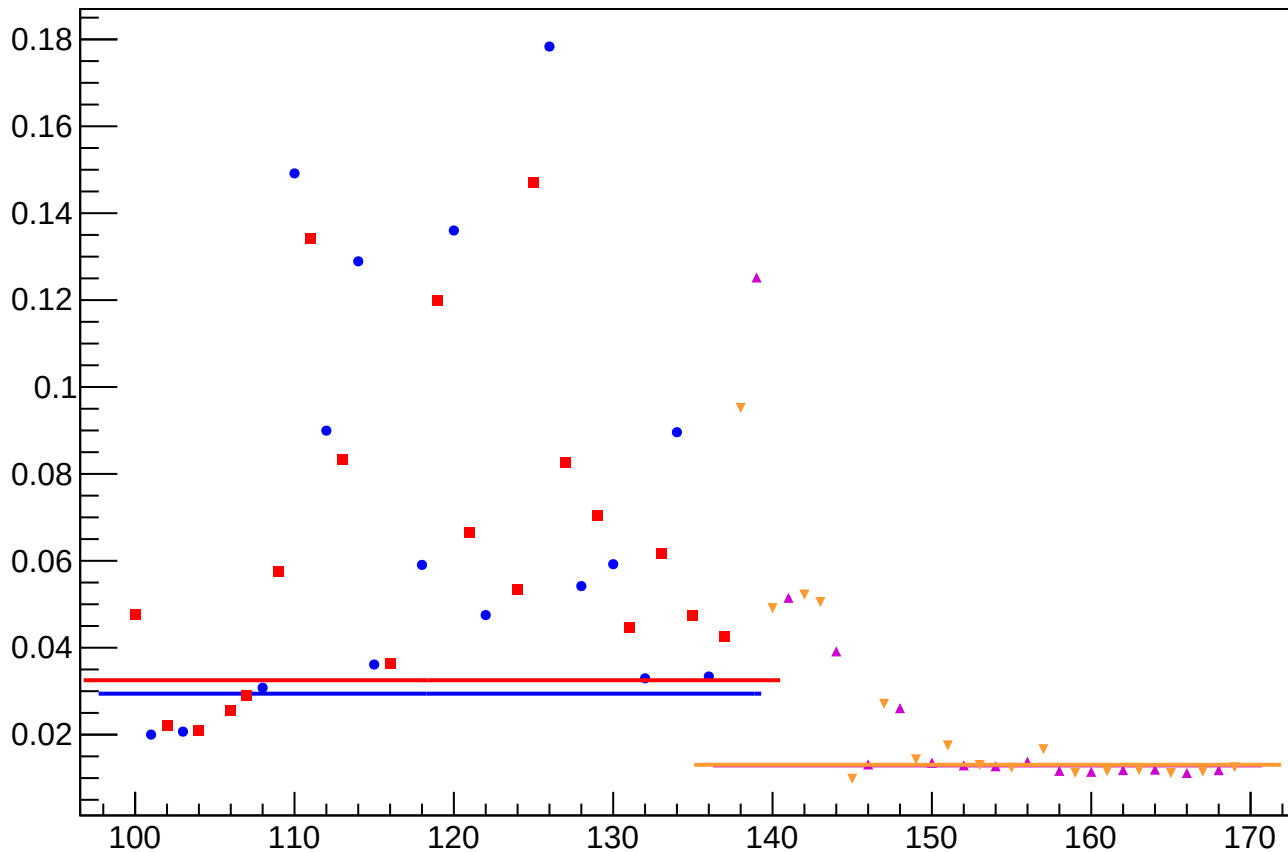
Right: 0.644 $\pm$ 0.000 χ^2/NDF : 17086077865.4/34

In: 1.092 $\pm$ 0.000 χ^2/NDF :521987245501.0/30

Out: 0.733 $\pm$ 0.000 χ^2/NDF :390611824905.1/35

All: 0.912 $\pm$ 0.000 χ^2/NDF : 916638970450.3

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000 χ^2/NDF : 3192424.8/15

Left Out: 0.013+/-0.000 χ^2/NDF :3110135.3/16

Right Out: 0.033+/-0.000 χ^2/NDF : 3315430.7/18

Left In: 0.013+/-0.000 χ^2/NDF :2679897.2/14

Left: 0.013+/-0.000 χ^2/NDF : 5791339.7/31

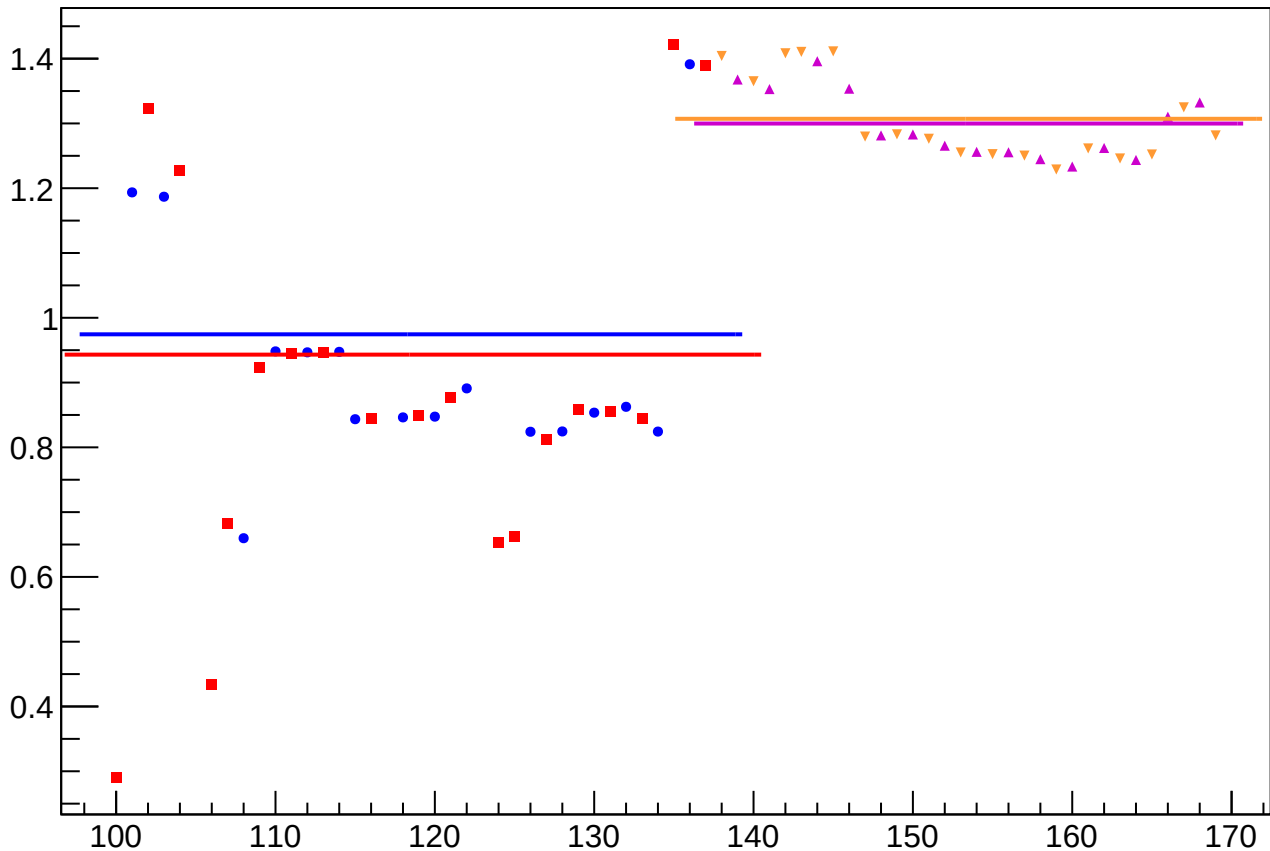
Right: 0.031+/-0.000 χ^2/NDF : 6546669.2/34

In: 0.014+/-0.000 χ^2/NDF :8036496.4/30

Out: 0.014+/-0.000 χ^2/NDF :9194070.4/35

All: 0.014+/-0.000 χ^2/NDF : 17233979.0/66

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.974+/-0.000 χ^2/NDF : 1458735246.5/15

Left Out: 1.307+/-0.000 χ^2/NDF : 263245355.8/16

Right Out: 0.943+/-0.000 χ^2/NDF : 1670579900.3/18

Left In: 1.300+/-0.000 χ^2/NDF : 154587242.5/14

Left: 1.304+/-0.000 χ^2/NDF : 419445493.3/31

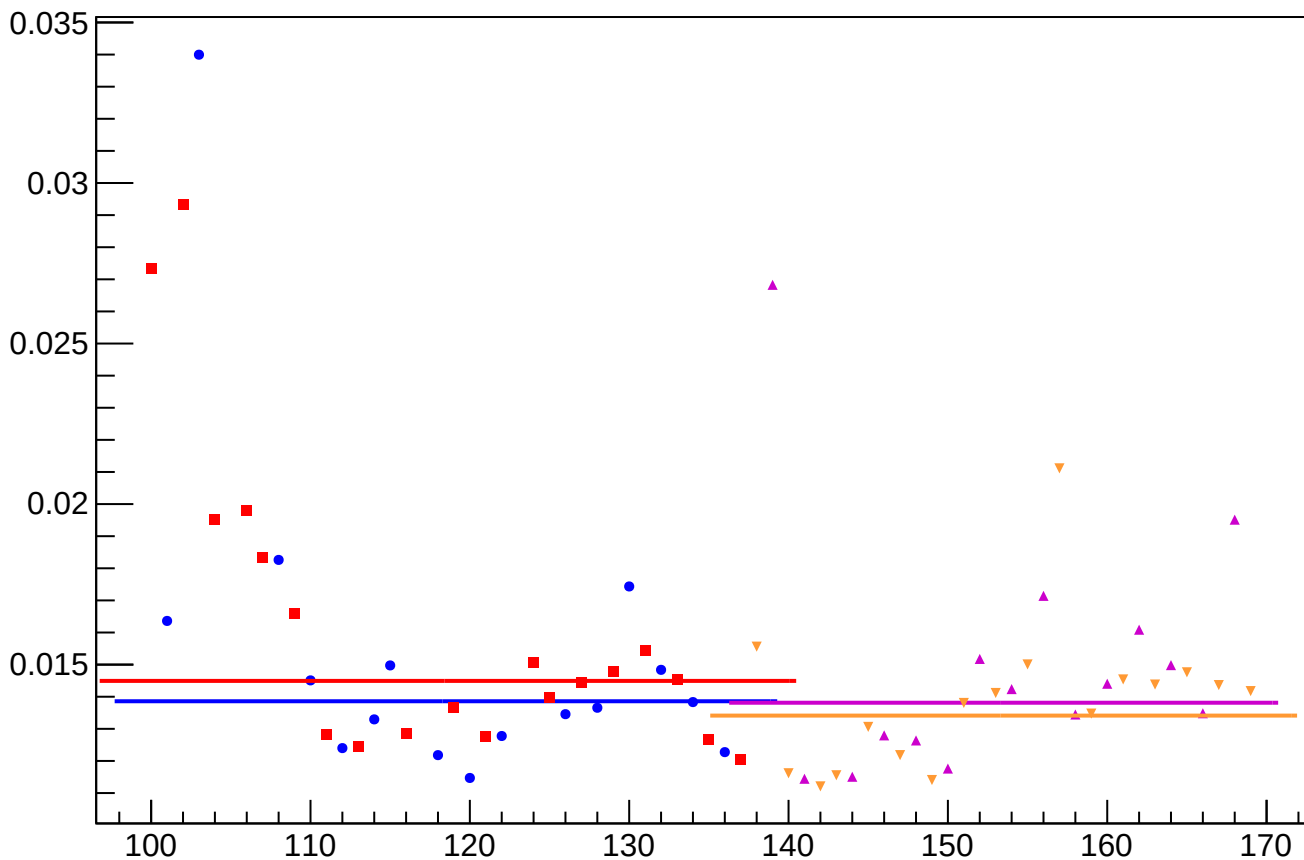
Right: 0.959+/-0.000 χ^2/NDF : 3144762694.7/34

In: 1.181+/-0.000 χ^2/NDF : 3790383961.1/30

Out: 1.190+/-0.000 χ^2/NDF : 4676887816.3/35

All: 1.186+/-0.000 χ^2/NDF : 8470775717.1/66

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 599979.5/15

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 412606.2/16

Right Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 544337.7/18

Left In: 0.014 $\pm$ 0.000 χ^2 /NDF: 825308.8/14

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 1247559.2/31

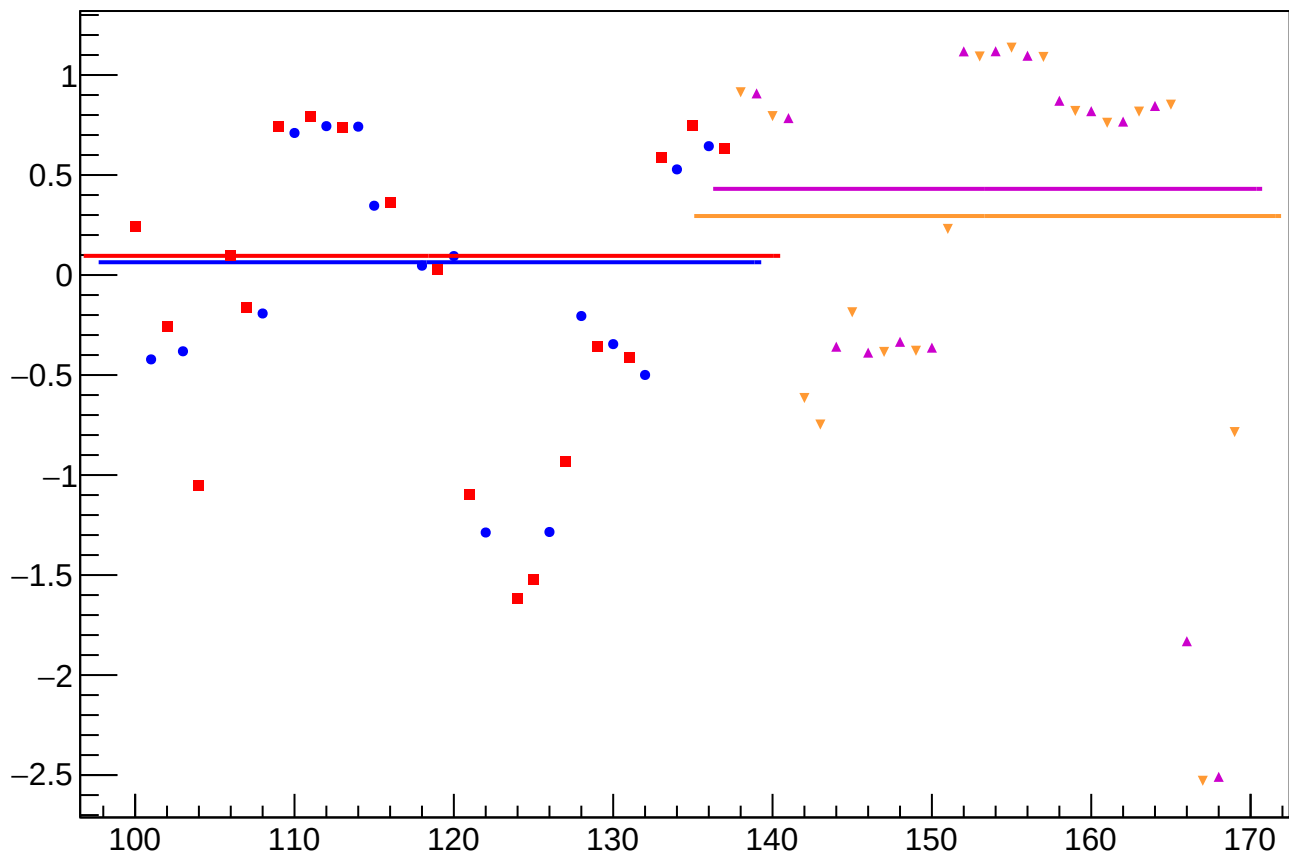
Right: 0.014 $\pm$ 0.000 χ^2 /NDF: 1156942.1/34

In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1425375.4/30

Out: 0.014 $\pm$ 0.000 χ^2 /NDF: 1005273.4/35

All: 0.014 $\pm$ 0.000 χ^2 /NDF: 2431092.1/66

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.064+/-0.000

χ^2/NDF : 11035911379.4/15

Left: 0.362+/-0.000

χ^2/NDF : 150335865551.0/31

Left Out: 0.295+/-0.000

χ^2/NDF : 72500761588.3/16

Right: 0.081+/-0.000

χ^2/NDF : 28834701842.2/34

Right Out: 0.096+/-0.000

χ^2/NDF : 17784850774.3/18

In: 0.344+/-0.000

χ^2/NDF : 90698722715.1/30

Out: 0.243+/-0.000

χ^2/NDF : 91157399649.1/35

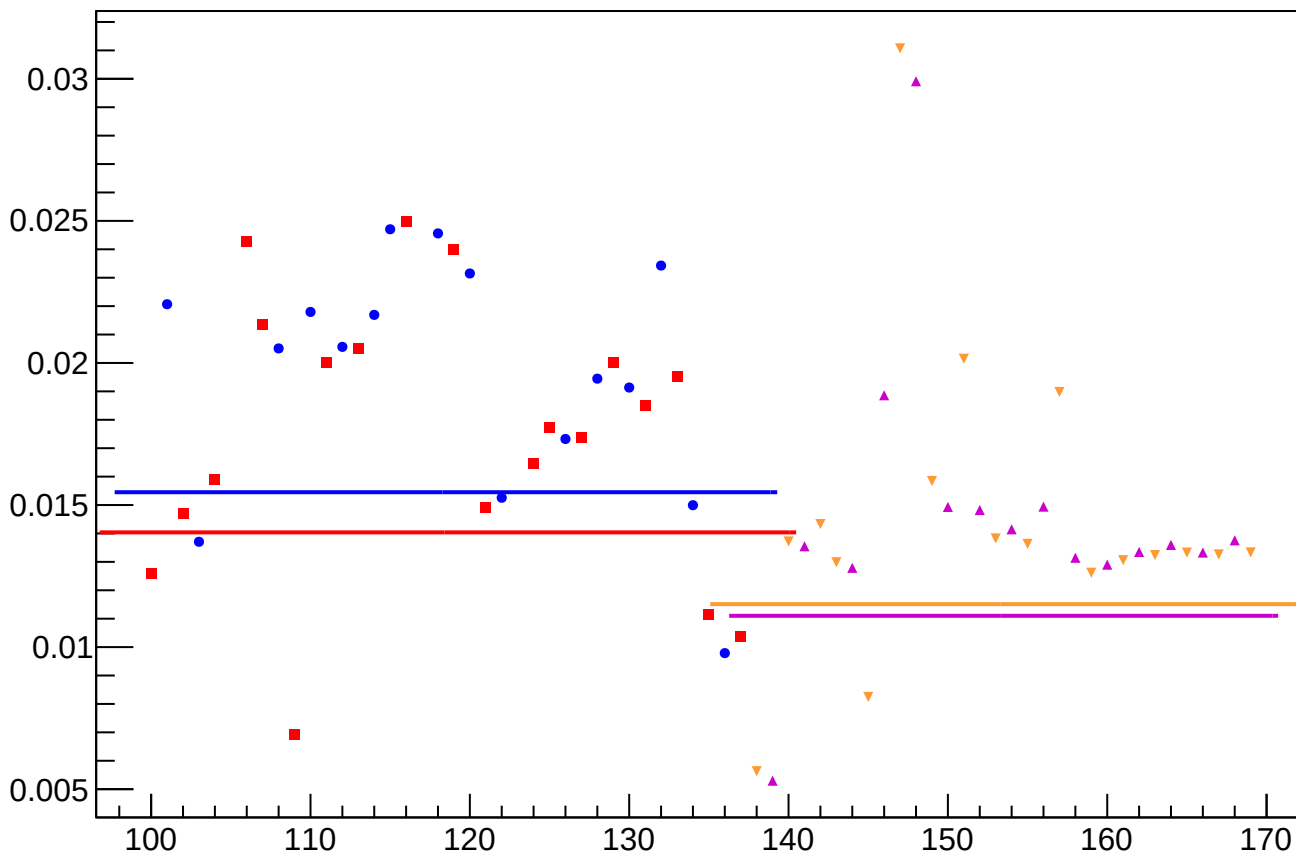
Left In: 0.431+/-0.000

χ^2/NDF : 77072307114.5/14

All: 0.292+/-0.000

χ^2/NDF : 182426787411.1

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1293711.1/15

Left Out: 0.012+/-0.000 χ^2/NDF : 3134577.2/16

Right Out: 0.014+/-0.000 χ^2/NDF : 1686554.4/18

Left In: 0.011+/-0.000 χ^2/NDF : 3531520.2/14

Left: 0.011+/-0.000 χ^2/NDF : 6679994.9/31

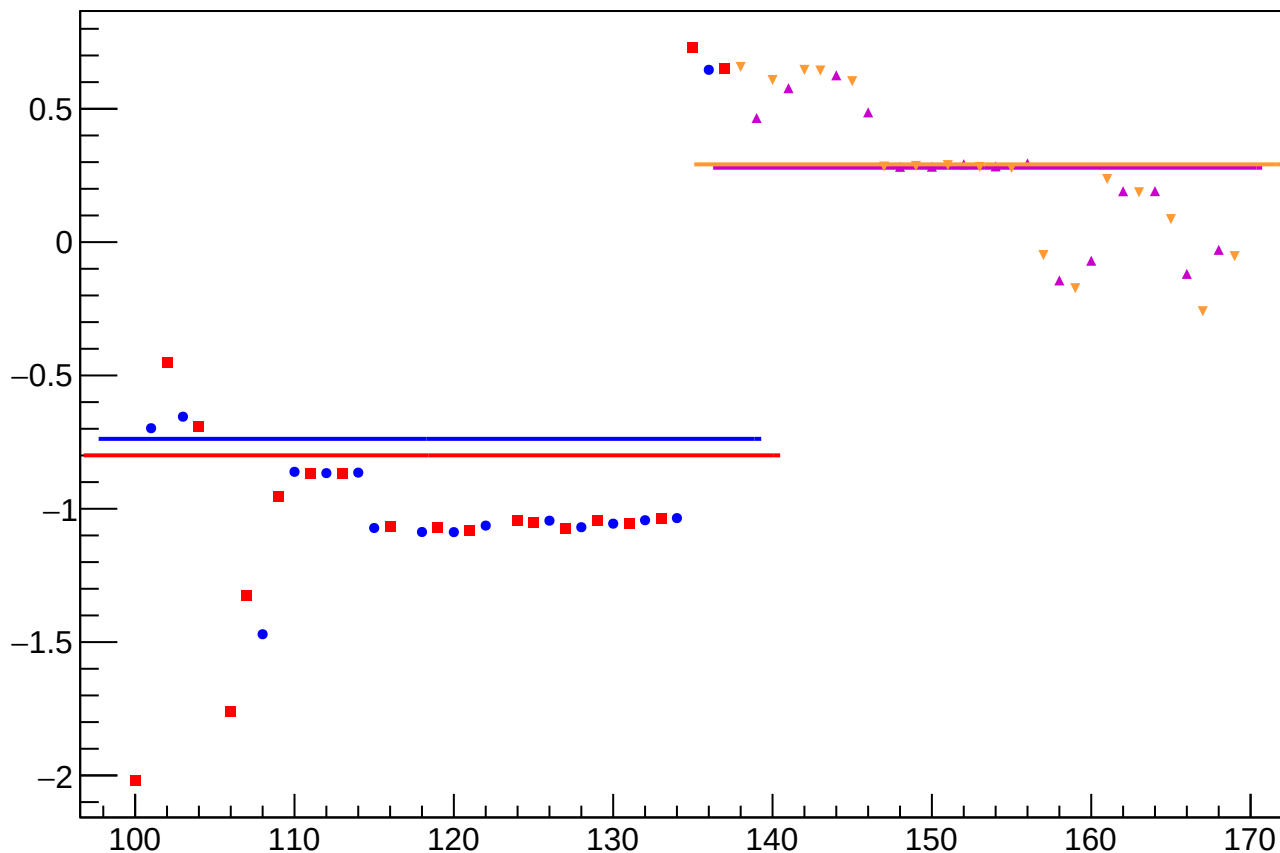
Right: 0.015+/-0.000 χ^2/NDF : 3034802.2/34

In: 0.012+/-0.000 χ^2/NDF : 5553007.1/30

Out: 0.012+/-0.000 χ^2/NDF : 5101634.4/35

All: 0.012+/-0.000 χ^2/NDF : 10654919.8/66

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.738+/-0.000

χ^2/NDF : 2072845802.4/15

Left: 0.286+/-0.000 χ^2/NDF : 1240081537.9/31

Right: -0.768+/-0.000 χ^2/NDF : 3966960462.4/34

Left Out: 0.292+/-0.000

χ^2/NDF : 738314460.4/16

In: -0.125+/-0.000 χ^2/NDF : 6036696430.6/30

Right Out: -0.800+/-0.000

χ^2/NDF : 1883862445.0/18

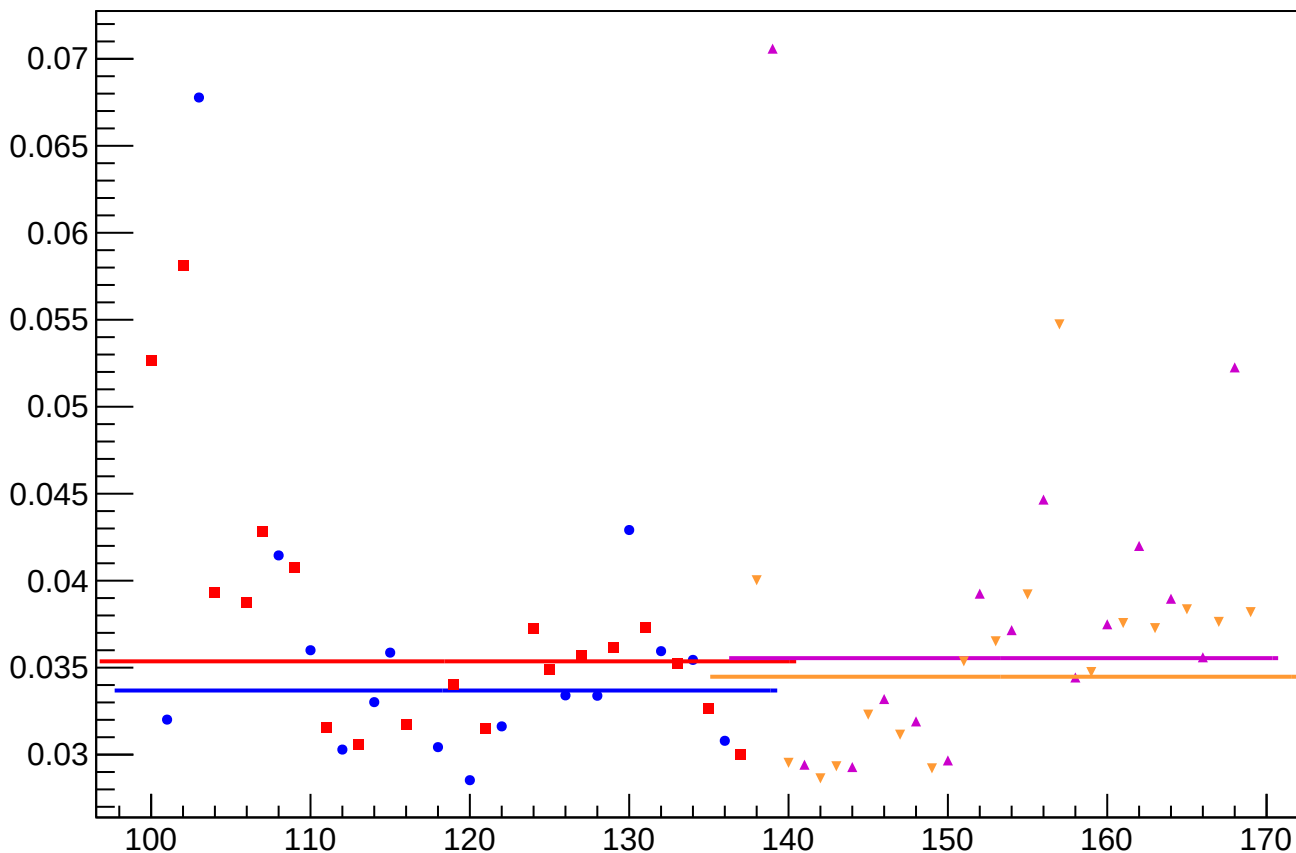
Out: -0.089+/-0.000 χ^2/NDF : 6630540880.9/35

Left In: 0.279+/-0.000

χ^2/NDF : 501045750.6/14

All: -0.107+/-0.000 χ^2/NDF : 12676175898.0/...

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.034+/-0.000 χ^2/NDF : 420227.2/15

Left Out: 0.034+/-0.000 χ^2/NDF : 462551.4/16

Right Out: 0.035+/-0.000 χ^2/NDF : 296353.9/18

Left In: 0.036+/-0.000 χ^2/NDF : 912516.5/14

Left: 0.035+/-0.000 χ^2/NDF : 1385342.8/31

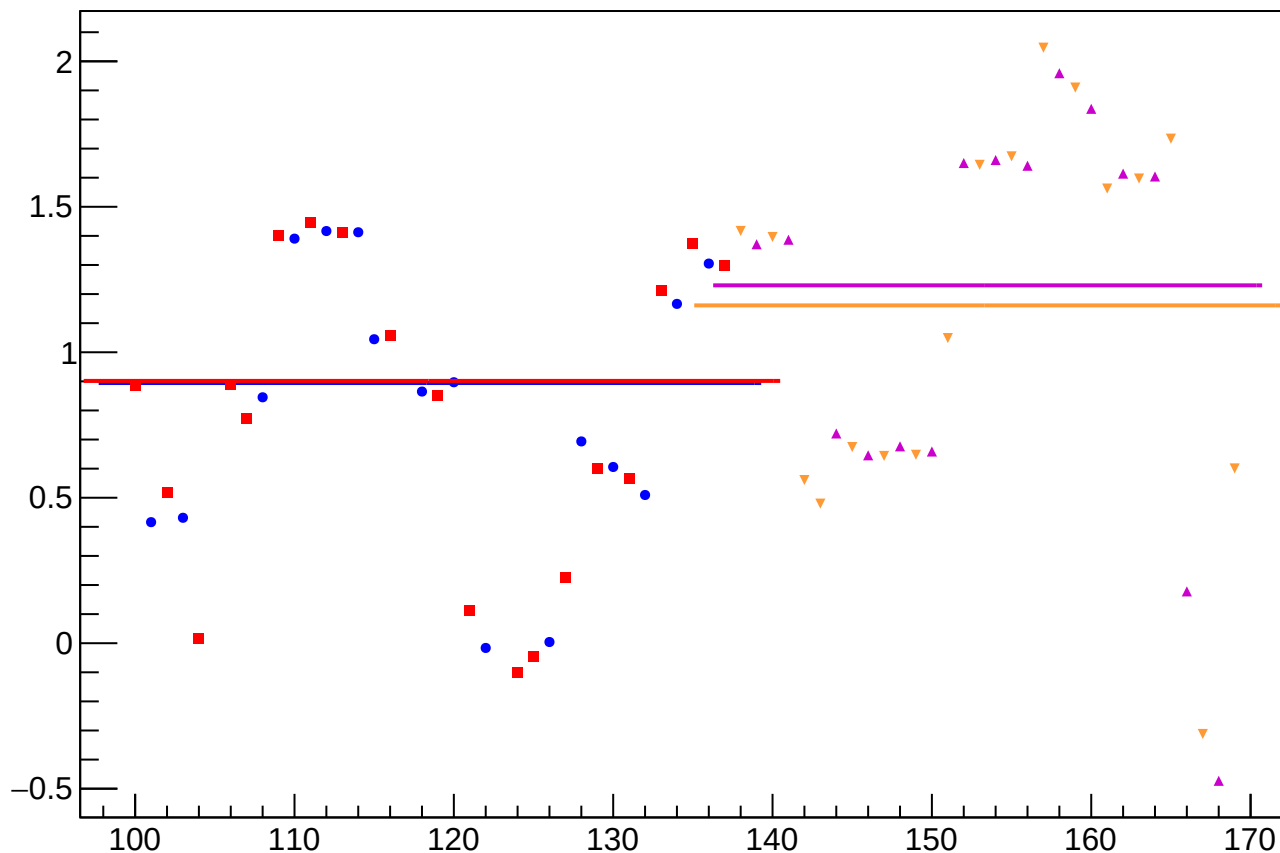
Right: 0.034+/-0.000 χ^2/NDF : 731644.4/34

In: 0.035+/-0.000 χ^2/NDF : 1355941.9/30

Out: 0.035+/-0.000 χ^2/NDF : 764173.8/35

All: 0.035+/-0.000 χ^2/NDF : 2120122.1/66

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.894 $\pm$ 0.000

χ^2 /NDF: 12749707787.6/15

Left: 1.194 $\pm$ 0.000 χ^2 /NDF: 116314006069.0/31

Right: 0.898 $\pm$ 0.000 χ^2 /NDF: 30644277544.6/34

Left Out: 1.161 $\pm$ 0.000

χ^2 /NDF: 58342106663.3/16

In: 1.132 $\pm$ 0.000 χ^2 /NDF: 74837862391.4/30

Right Out: 0.902 $\pm$ 0.000

χ^2 /NDF: 17893051843.7/18

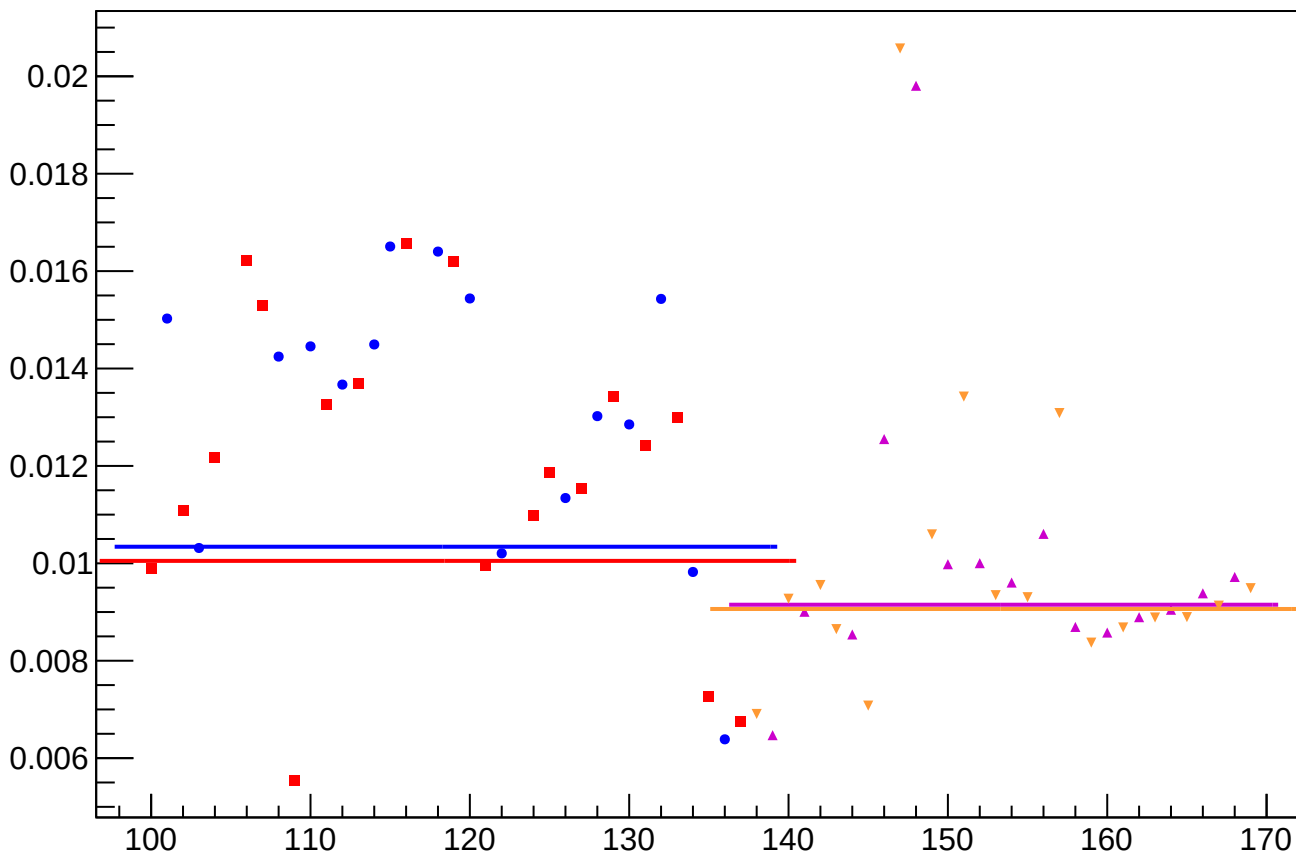
Out: 1.086 $\pm$ 0.000 χ^2 /NDF: 79126725256.3/35

Left In: 1.230 $\pm$ 0.000

χ^2 /NDF: 57634637178.1/14

All: 1.108 $\pm$ 0.000 χ^2 /NDF: 154173891174.6

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1350446.6/15

Left Out: 0.009+/-0.000 χ^2/NDF :1127238.1/16

Right Out: 0.010+/-0.000 χ^2/NDF : 1336866.7/18

Left In: 0.009+/-0.000 χ^2/NDF :924976.0/14

Left: 0.009+/-0.000 χ^2/NDF : 2053297.7/31

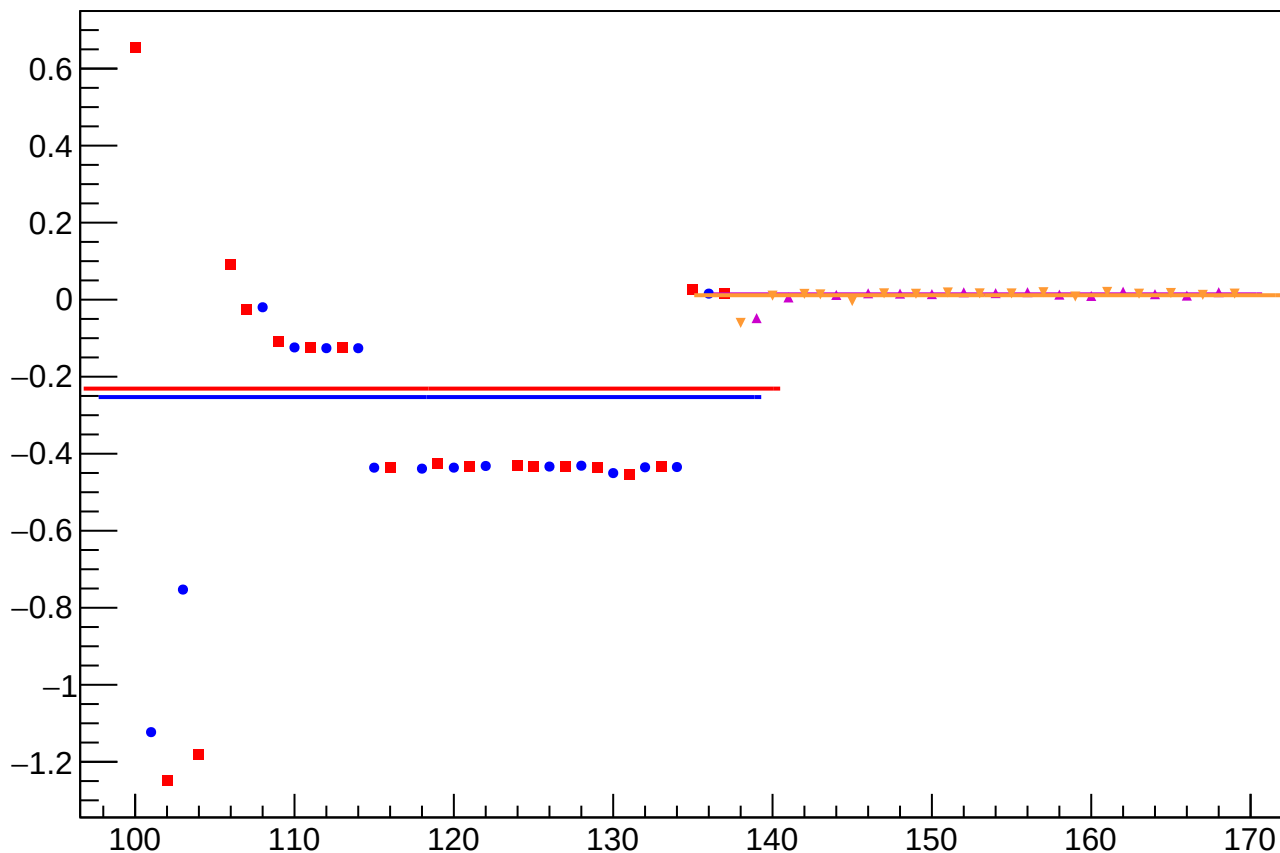
Right: 0.010+/-0.000 χ^2/NDF : 2692207.1/34

In: 0.009+/-0.000 χ^2/NDF :2387485.3/30

Out: 0.009+/-0.000 χ^2/NDF :2547817.7/35

All: 0.009+/-0.000 χ^2/NDF : 4939818.3/66

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.253+/-0.000 χ^2/NDF : 2025242410.1/15

Left Out: 0.012+/-0.000 χ^2/NDF :23224505.4/16

Right Out: -0.231+/-0.000 χ^2/NDF : 1808702536.0/18

Left In: 0.014+/-0.000 χ^2/NDF :6477907.7/14

Left: 0.013+/-0.000 χ^2/NDF : 30016202.7/31

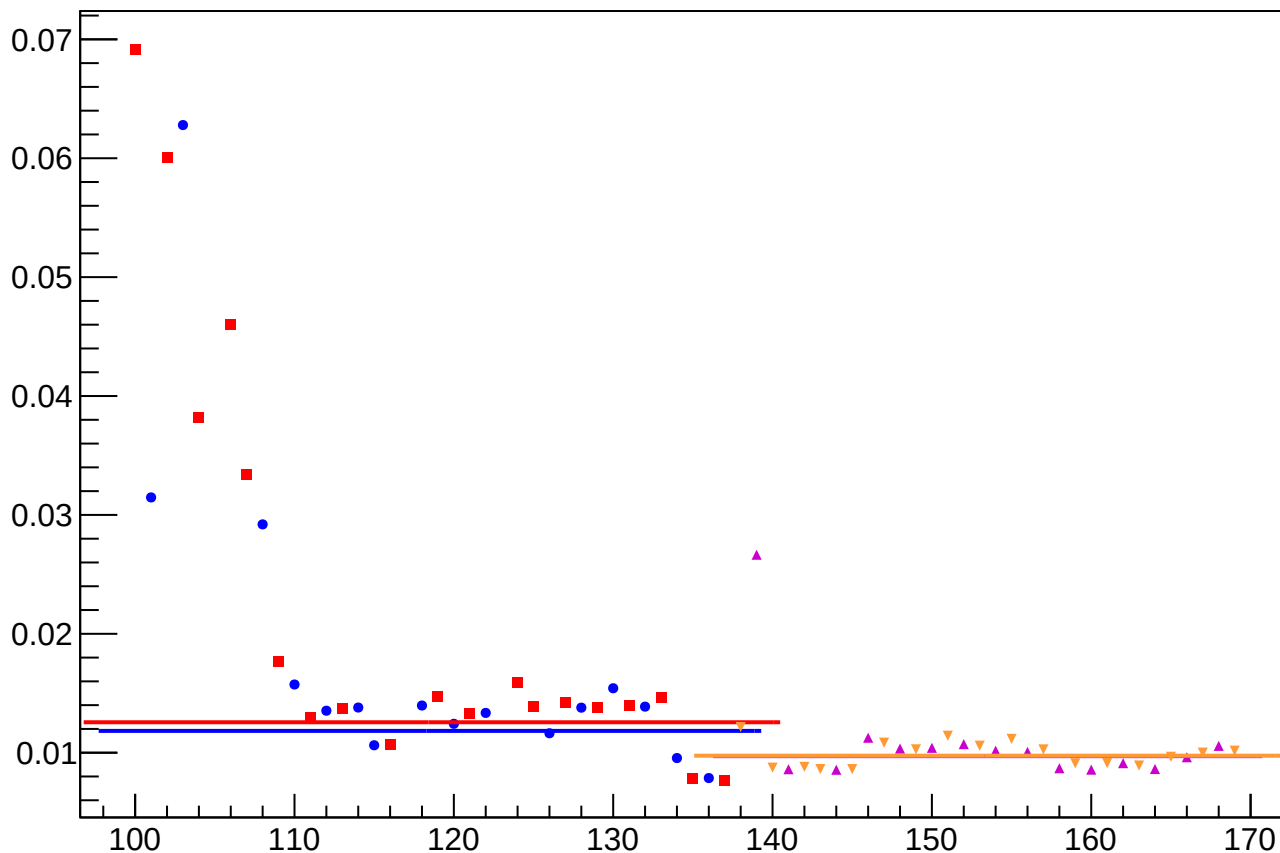
Right: -0.243+/-0.000 χ^2/NDF : 3842049612.8/34

In: -0.052+/-0.000 χ^2/NDF :3932778768.5/30

Out: -0.040+/-0.000 χ^2/NDF :3302030452.8/35

All: -0.046+/-0.000 χ^2/NDF : 7245892830.0/6

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1942550.6/15

Left Out: 0.010+/-0.000 χ^2/NDF : 225991.9/16

Right Out: 0.013+/-0.000 χ^2/NDF : 2217419.3/18

Left In: 0.010+/-0.000 χ^2/NDF : 856272.2/14

Left: 0.010+/-0.000 χ^2/NDF : 1082431.3/31

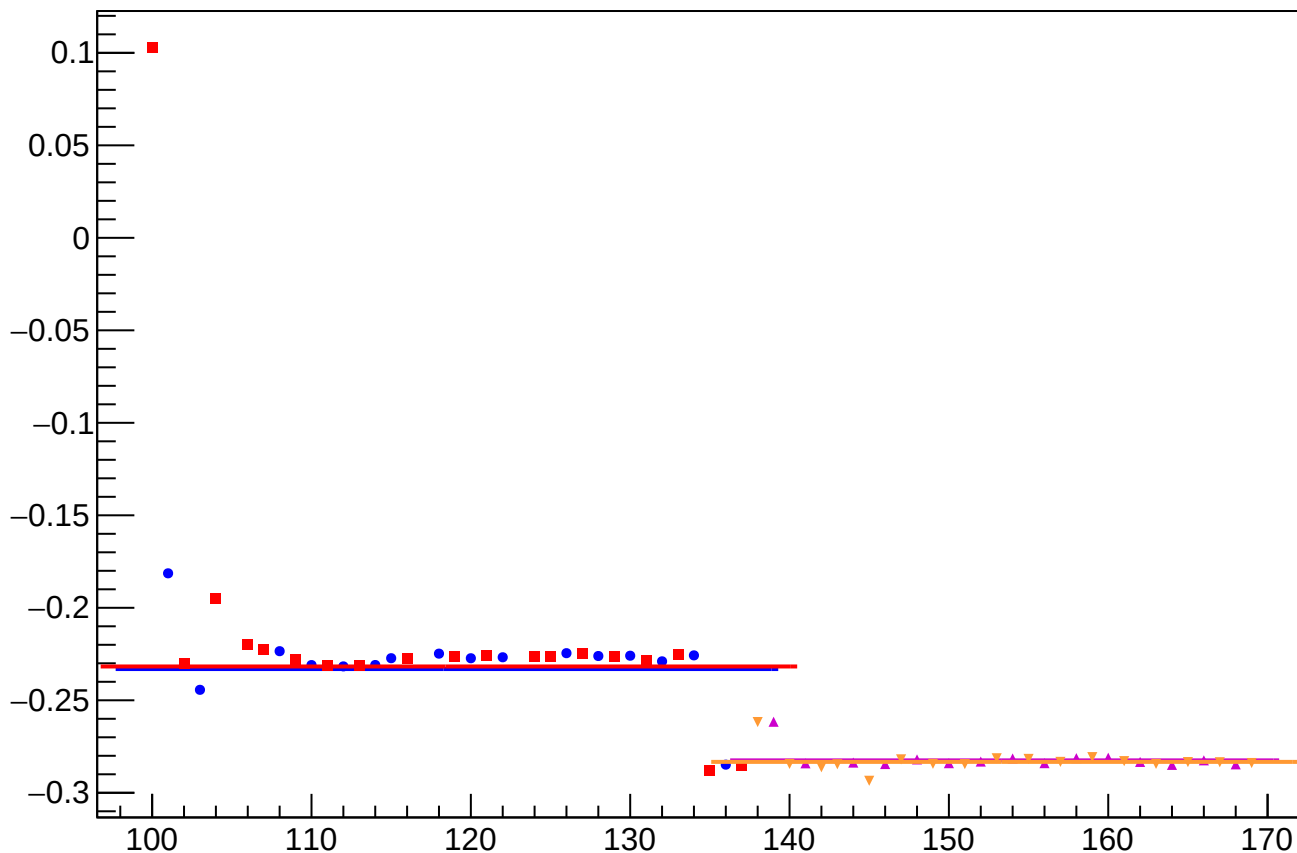
Right: 0.012+/-0.000 χ^2/NDF : 4177625.3/34

In: 0.010+/-0.000 χ^2/NDF : 3039594.0/30

Out: 0.010+/-0.000 χ^2/NDF : 2838421.6/35

All: 0.010+/-0.000 χ^2/NDF : 5879750.4/66

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.233 ± 0.000 χ^2/NDF : 199059878.3/15

Left Out: -0.283 ± 0.000 χ^2/NDF : 15027655.2/16

Right Out: -0.232 ± 0.000 χ^2/NDF : 287244778.7/18

Left In: -0.282 ± 0.000 χ^2/NDF : 6599543.9/14

Left: -0.283 ± 0.000 χ^2/NDF : 21776974.9/31

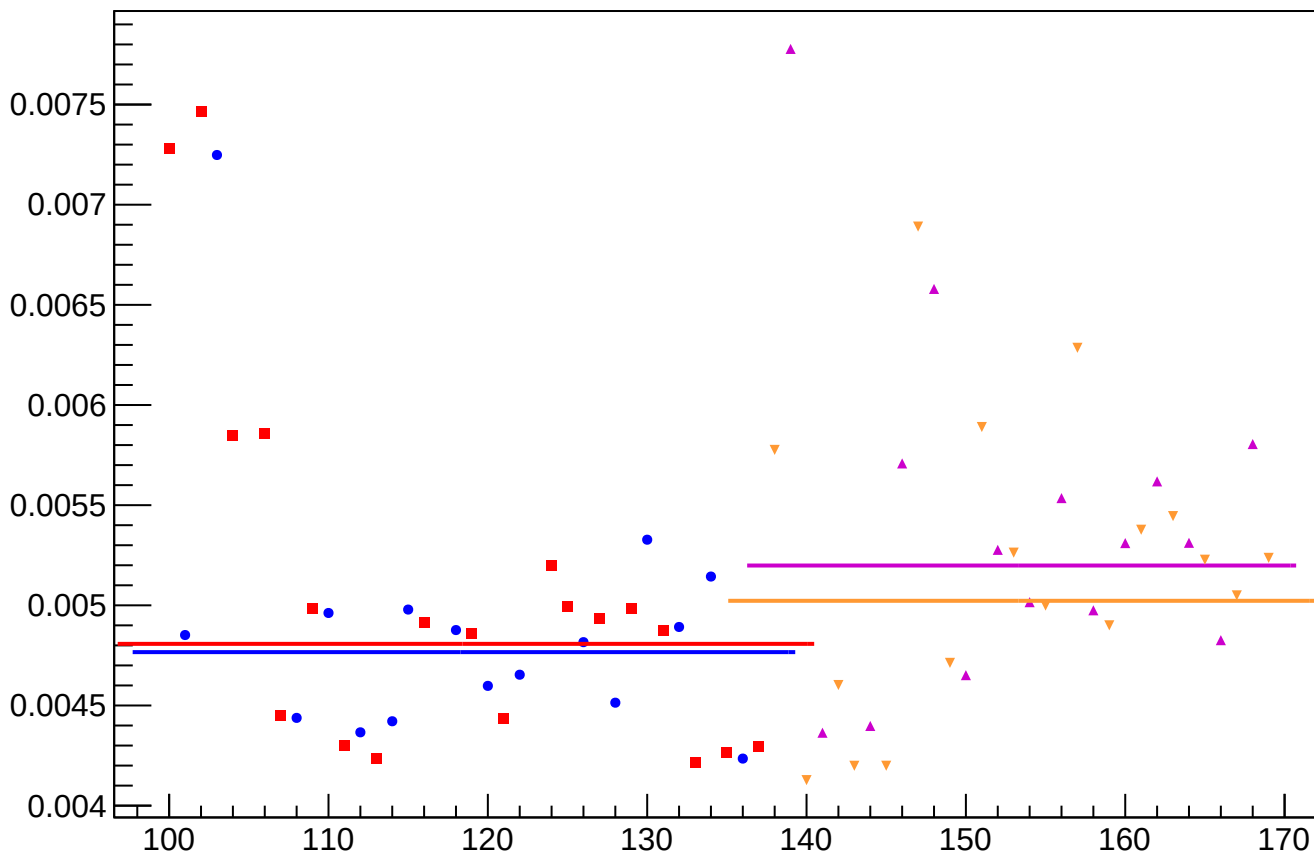
Right: -0.232 ± 0.000 χ^2/NDF : 486580881.0/34

In: -0.263 ± 0.000 χ^2/NDF : 620664798.0/30

Out: -0.264 ± 0.000 χ^2/NDF : 787430713.9/35

All: -0.263 ± 0.000 χ^2/NDF : 1408804416.4/6

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 191759.7/15

Left Out: 0.005+/-0.000 χ^2/NDF : 456032.1/16

Right Out: 0.005+/-0.000 χ^2/NDF : 293738.0/18

Left In: 0.005+/-0.000 χ^2/NDF : 442801.3/14

Left: 0.005+/-0.000 χ^2/NDF : 912995.9/31

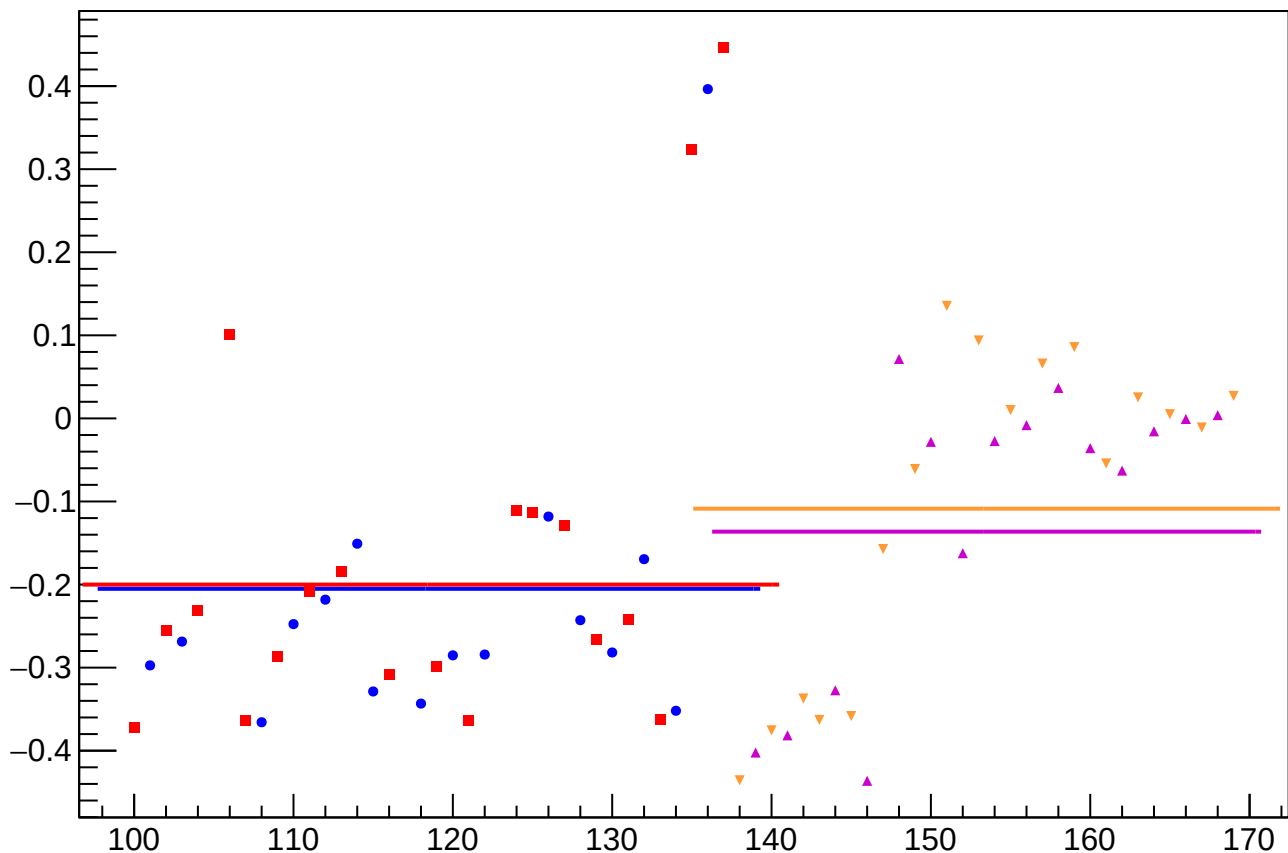
Right: 0.005+/-0.000 χ^2/NDF : 485985.9/34

In: 0.005+/-0.000 χ^2/NDF : 698199.3/30

Out: 0.005+/-0.000 χ^2/NDF : 766623.8/35

All: 0.005+/-0.000 χ^2/NDF : 1469982.5/66

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.205 ± 0.000 χ^2/NDF : 6189271855.3/15

Left Out: -0.109 ± 0.000 χ^2/NDF : 15623610881.8/16

Right Out: -0.200 ± 0.000 χ^2/NDF : 5249978819.5/18

Left In: -0.136 ± 0.000 χ^2/NDF : 10763730675.5/14

Left: -0.122 ± 0.000 χ^2/NDF : 26534662386.8/31

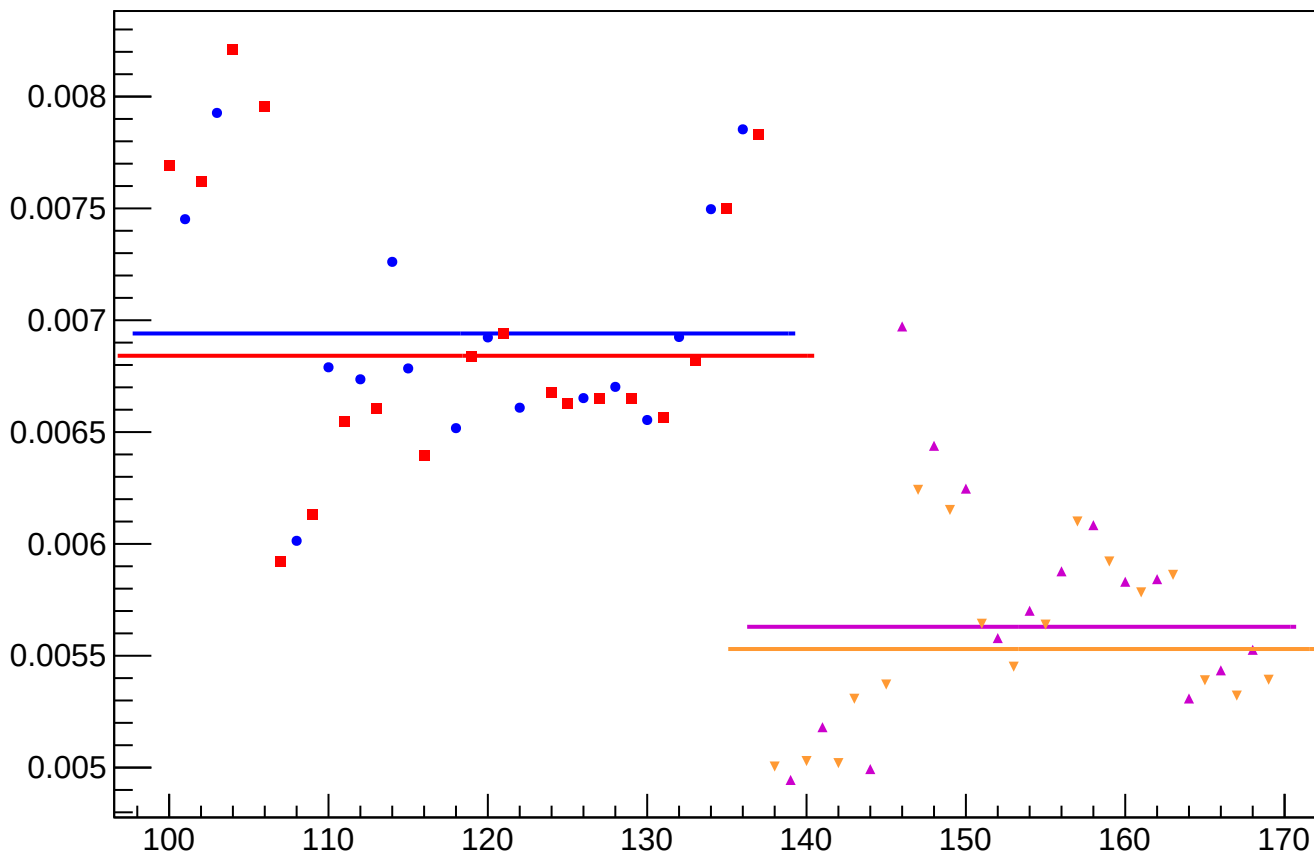
Right: -0.203 ± 0.000 χ^2/NDF : 11441176033.3/34

In: -0.156 ± 0.000 χ^2/NDF : 17445156020.3/30

Out: -0.134 ± 0.000 χ^2/NDF : 21809651388.0/35

All: -0.144 ± 0.000 χ^2/NDF : 39390242927.7/70

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 85159.0/15

Left Out: 0.006+/-0.000 χ^2/NDF :113567.7/16

Right Out: 0.007+/-0.000 χ^2/NDF : 99819.4/18

Left In: 0.006+/-0.000 χ^2/NDF :185801.1/14

Left: 0.006+/-0.000 χ^2/NDF : 303164.9/31

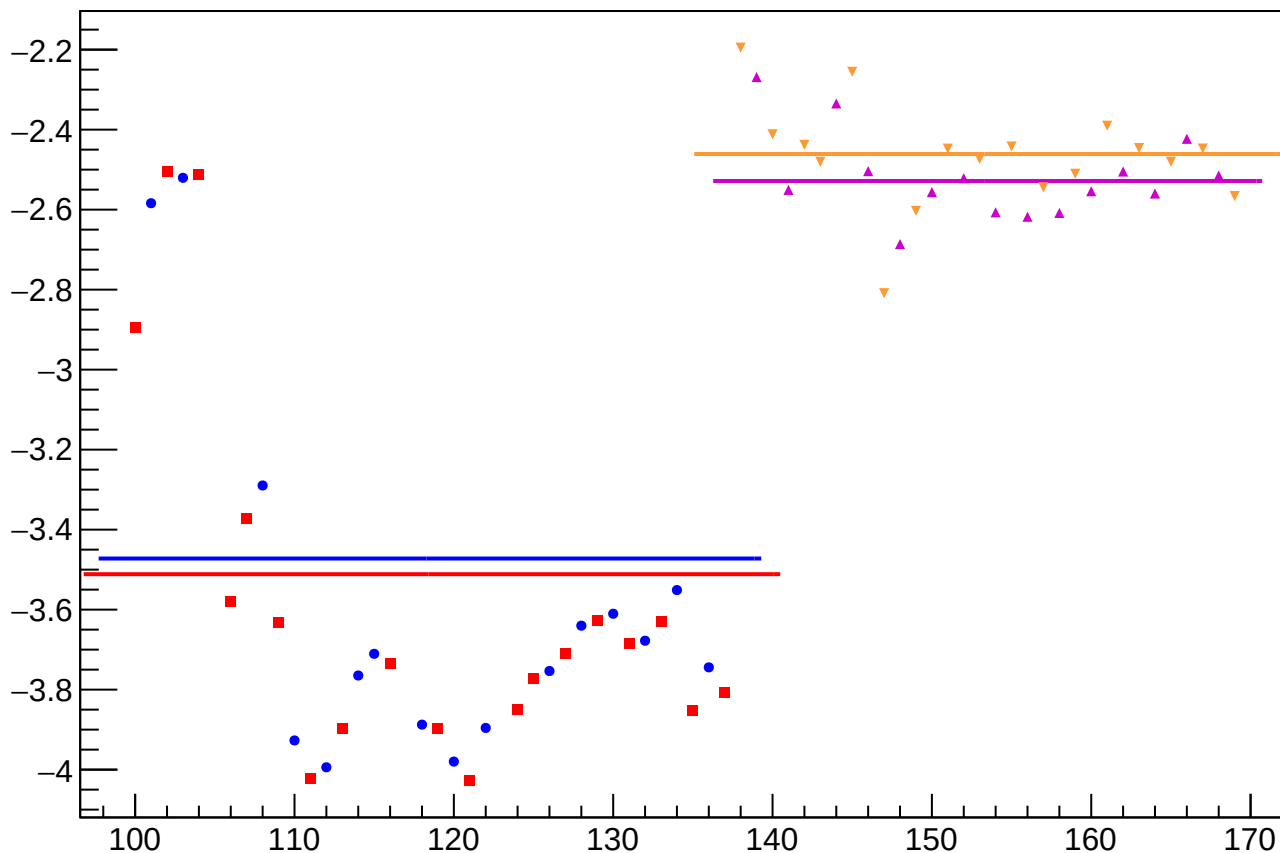
Right: 0.007+/-0.000 χ^2/NDF : 186467.2/34

In: 0.006+/-0.000 χ^2/NDF :628760.1/30

Out: 0.006+/-0.000 χ^2/NDF :598650.5/35

All: 0.006+/-0.000 χ^2/NDF : 1234922.8/66

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.472+/-0.000 χ^2/NDF : 29592353445.4/15

Left Out: -2.461+/-0.000 χ^2/NDF : 1769117306.5/16

Right Out: -3.511+/-0.000 χ^2/NDF : 29716501733.6/18

Left In: -2.528+/-0.000 χ^2/NDF : 1393051147.9/14

Left: -2.493+/-0.000 χ^2/NDF : 3525579224.6/31

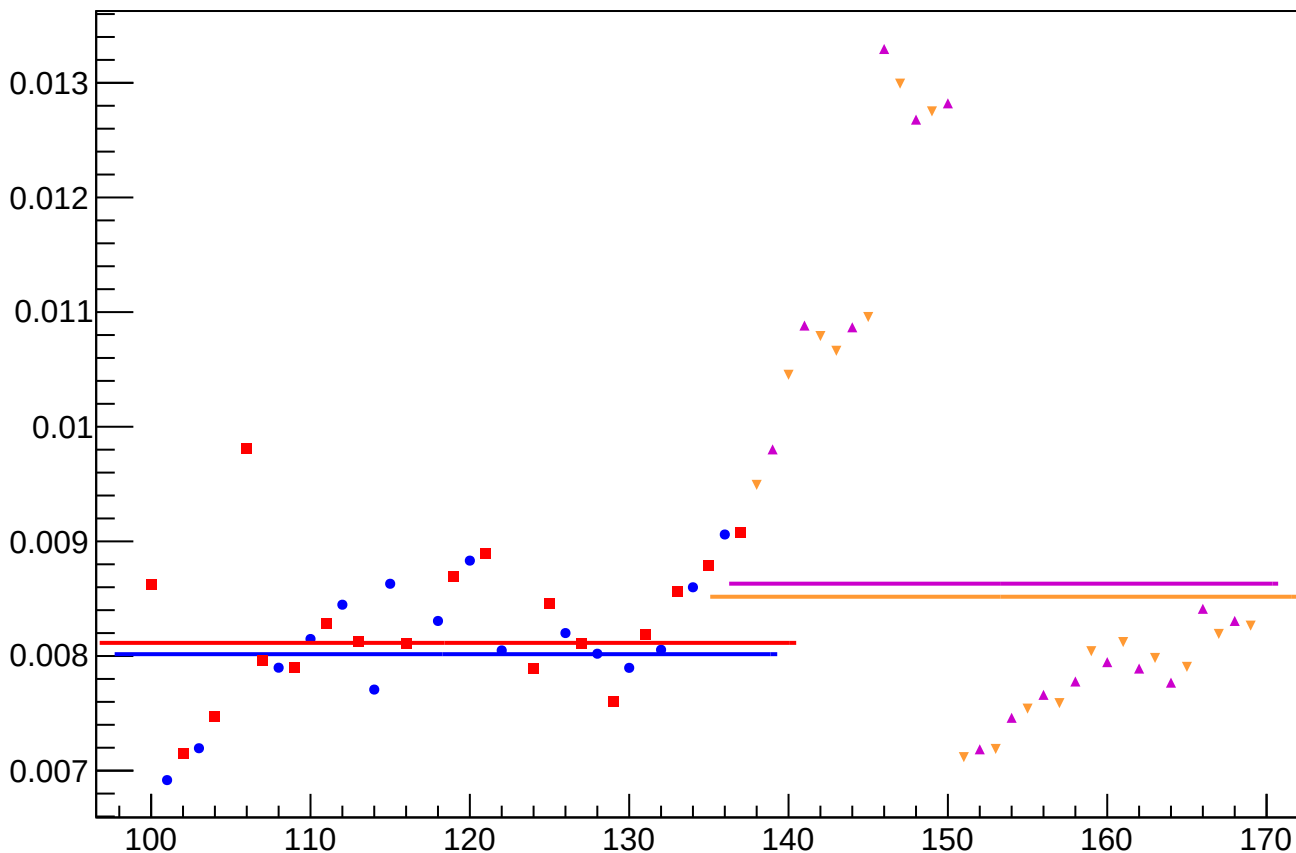
Right: -3.492+/-0.000 χ^2/NDF : 59392057159.0/34

In: -2.923+/-0.000 χ^2/NDF : 87356069738.9/30

Out: -2.870+/-0.000 χ^2/NDF : 104267698830.3/35

All: -2.896+/-0.000 χ^2/NDF : 191998331509.8

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 86232.2/15

Left Out: 0.009+/-0.000 χ^2/NDF : 747916.2/16

Right Out: 0.008+/-0.000 χ^2/NDF : 71067.5/18

Left In: 0.009+/-0.000 χ^2/NDF : 848366.2/14

Left: 0.009+/-0.000 χ^2/NDF : 1598357.5/31

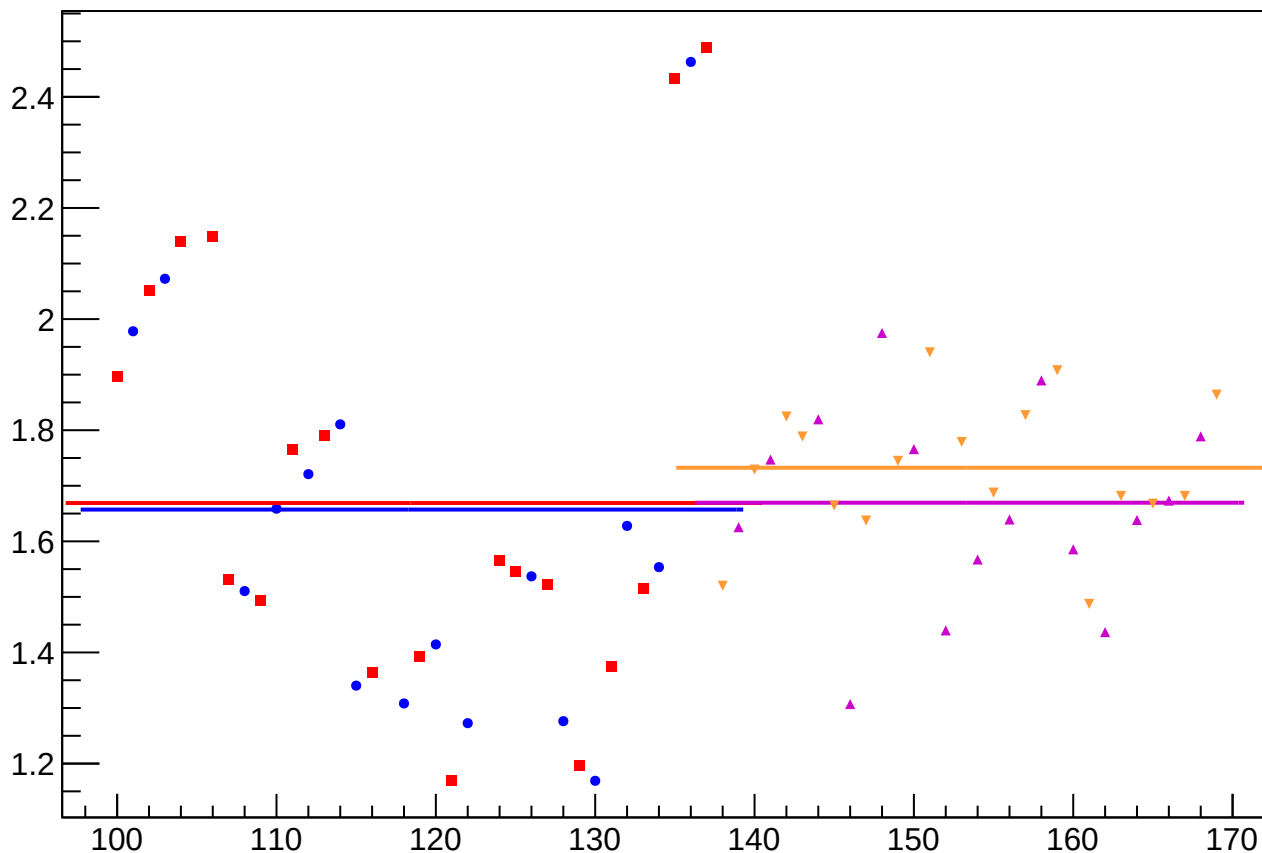
Right: 0.008+/-0.000 χ^2/NDF : 158353.0/34

In: 0.008+/-0.000 χ^2/NDF : 982462.1/30

Out: 0.008+/-0.000 χ^2/NDF : 840350.4/35

All: 0.008+/-0.000 χ^2/NDF : 1822862.2/66

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.657+/-0.000 χ^2/NDF : 6666154117.3/15

Left Out: 1.732+/-0.000 χ^2/NDF : 1452345180.3/16

Right Out: 1.669+/-0.000 χ^2/NDF : 6357589265.5/18

Left In: 1.670+/-0.000 χ^2/NDF : 2254789980.2/14

Left: 1.703+/-0.000 χ^2/NDF : 3887410913.0/31

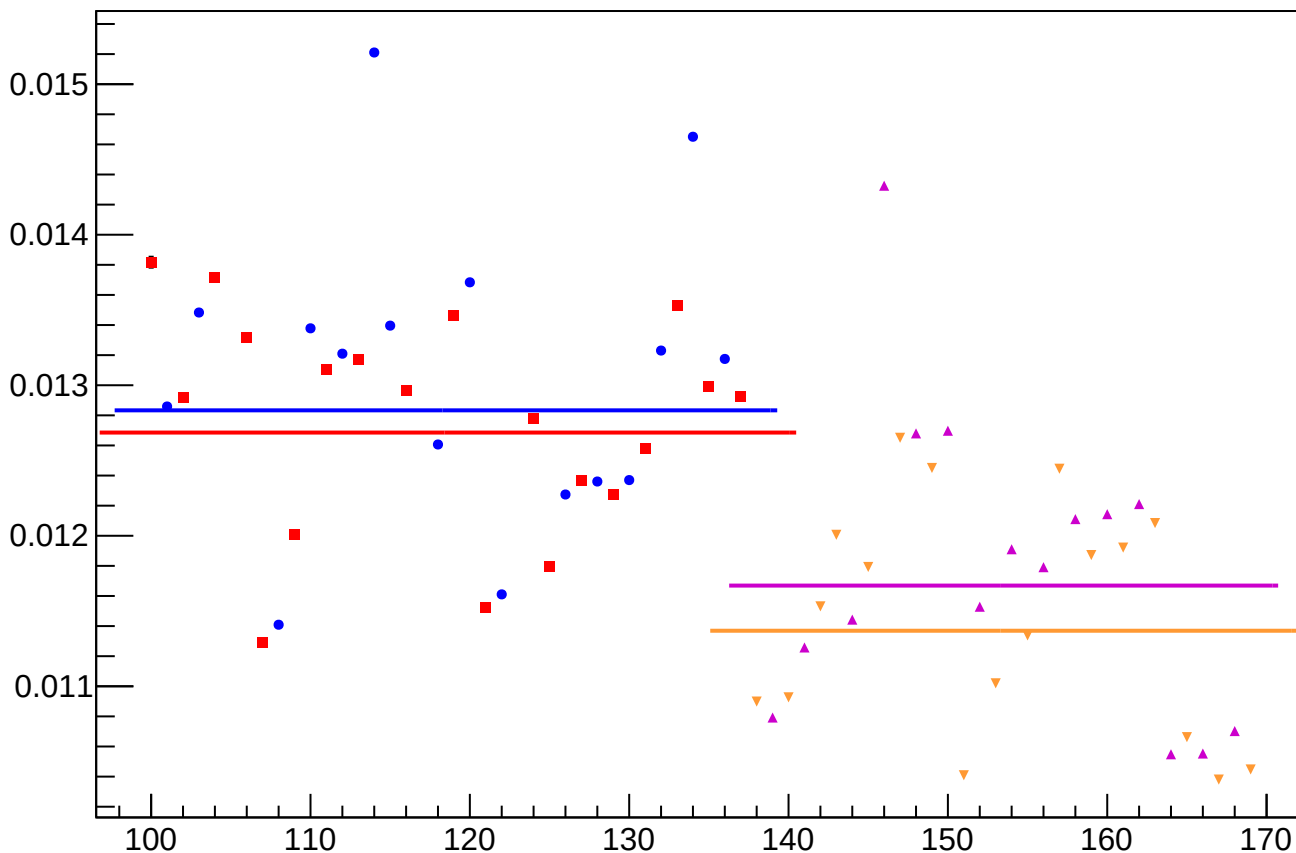
Right: 1.663+/-0.000 χ^2/NDF : 13026763419.8/34

In: 1.665+/-0.000 χ^2/NDF : 8925265501.8/30

Out: 1.713+/-0.000 χ^2/NDF : 7934082095.0/35

All: 1.690+/-0.000 χ^2/NDF : 17009038028.2/66

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 52516.5/15

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF : 108974.7/16

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 43279.9/18

Left In: 0.012 $\pm$ 0.000 χ^2/NDF : 136304.8/14

Left: 0.012 $\pm$ 0.000 χ^2/NDF : 253468.3/31

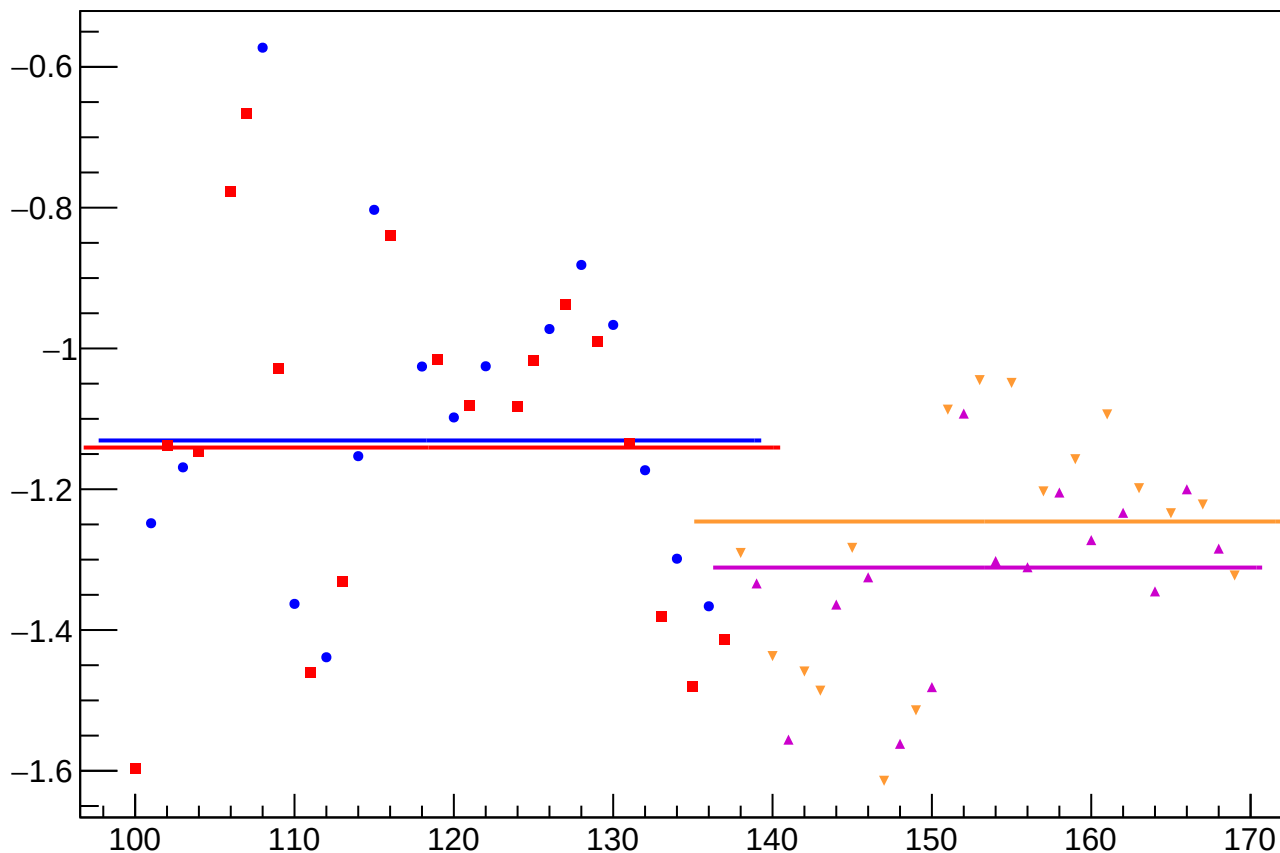
Right: 0.013 $\pm$ 0.000 χ^2/NDF : 96748.3/34

In: 0.012 $\pm$ 0.000 χ^2/NDF : 265734.8/30

Out: 0.012 $\pm$ 0.000 χ^2/NDF : 258902.6/35

All: 0.012 $\pm$ 0.000 χ^2/NDF : 534892.6/66

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -1.131+/-0.000 χ^2/NDF : 3790121991.7/15

Left Out: -1.246+/-0.000 χ^2/NDF : 4462271647.1/16

Right Out: -1.141+/-0.000 χ^2/NDF : 3544012262.4/18

Left In: -1.311+/-0.000 χ^2/NDF : 2274519128.7/14

Left: -1.276+/-0.000 χ^2/NDF : 7101523030.1/31

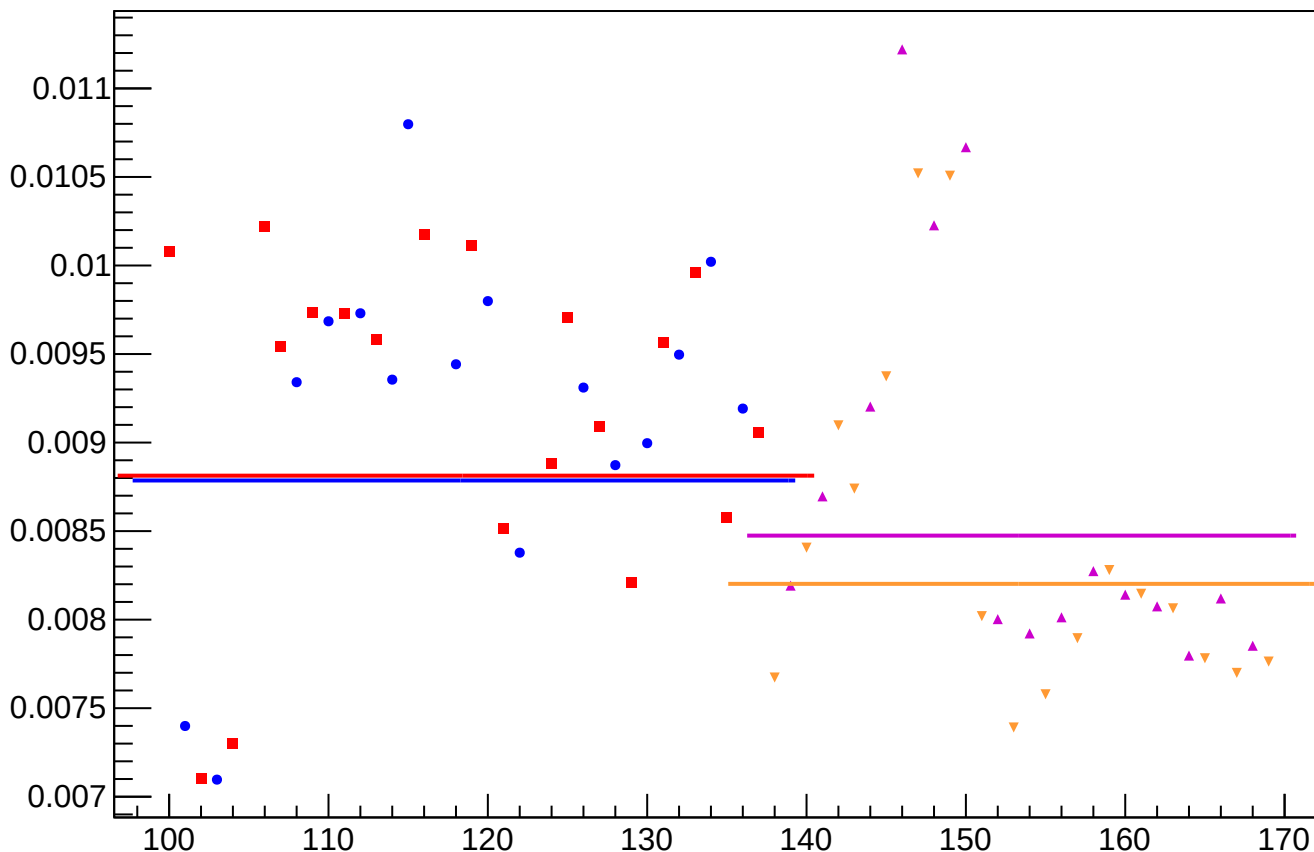
Right: -1.136+/-0.000 χ^2/NDF : 7338628665.5/34

In: -1.247+/-0.000 χ^2/NDF : 7921230897.3/30

Out: -1.211+/-0.000 χ^2/NDF : 8669827481.6/35

All: -1.228+/-0.000 χ^2/NDF : 16751777340.3/70

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 173477.6/15

Left Out: 0.008+/-0.000 χ^2/NDF :226119.3/16

Right Out: 0.009+/-0.000 χ^2/NDF : 204443.3/18

Left In: 0.008+/-0.000 χ^2/NDF :251467.7/14

Left: 0.008+/-0.000 χ^2/NDF : 490239.8/31

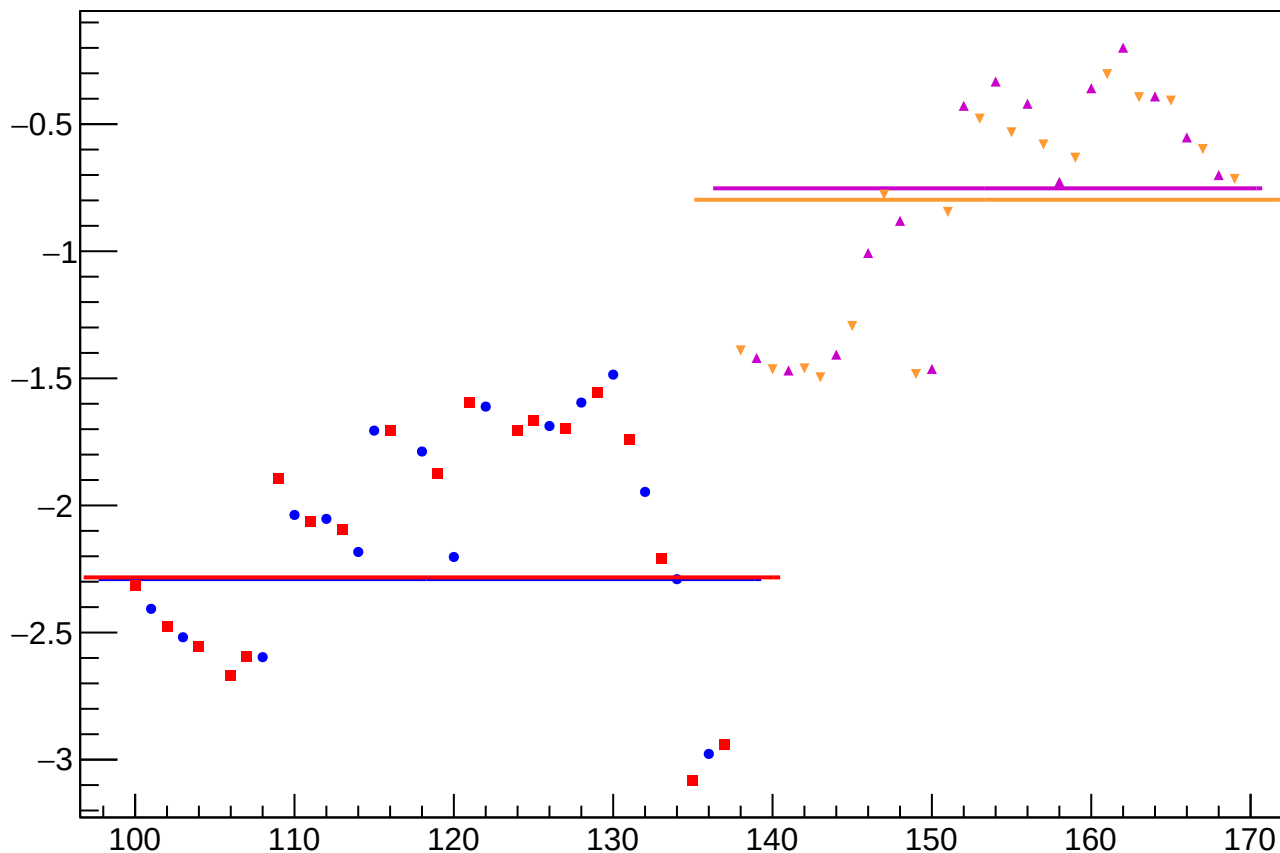
Right: 0.009+/-0.000 χ^2/NDF : 377987.0/34

In: 0.009+/-0.000 χ^2/NDF :435984.5/30

Out: 0.008+/-0.000 χ^2/NDF :475435.4/35

All: 0.008+/-0.000 χ^2/NDF : 920202.3/66

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -2.290+/-0.000 χ^2/NDF : 15222817978.4/15

Left Out: -0.797+/-0.000 χ^2/NDF : 32544863748.5/16

Right Out: -2.283+/-0.000 χ^2/NDF : 17032219519.1/18

Left In: -0.753+/-0.000 χ^2/NDF : 32553480862.1/14

Left: -0.776+/-0.000 χ^2/NDF : 65303494676.6/31

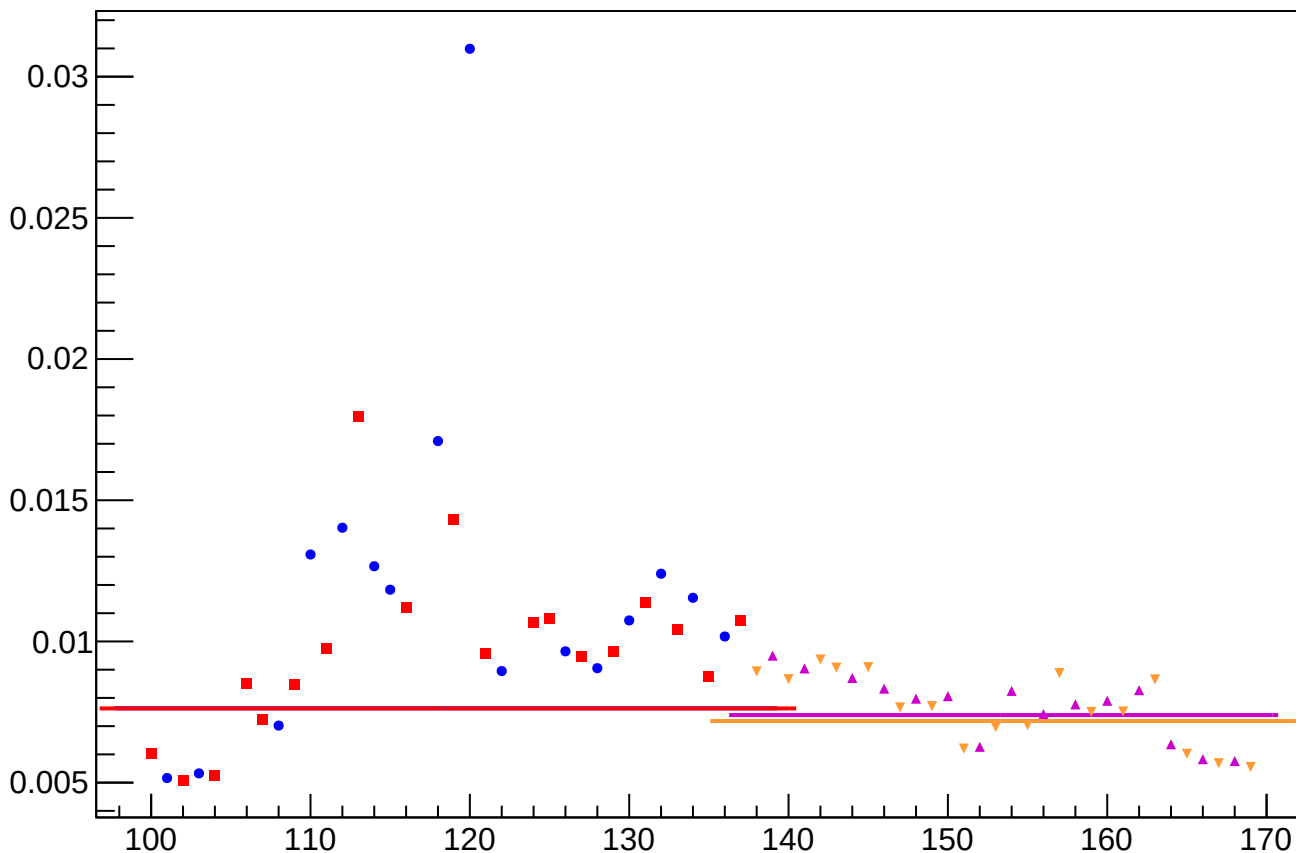
Right: -2.286+/-0.000 χ^2/NDF : 32257076383.6/34

In: -1.233+/-0.000 χ^2/NDF : 189477641096.8/30

Out: -1.248+/-0.000 χ^2/NDF : 196053374901.3/35

All: -1.241+/-0.000 χ^2/NDF : 385563959824.4

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 1710797.2/15

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:686961.4/16

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 1317740.1/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:530017.4/14

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 1226054.5/31

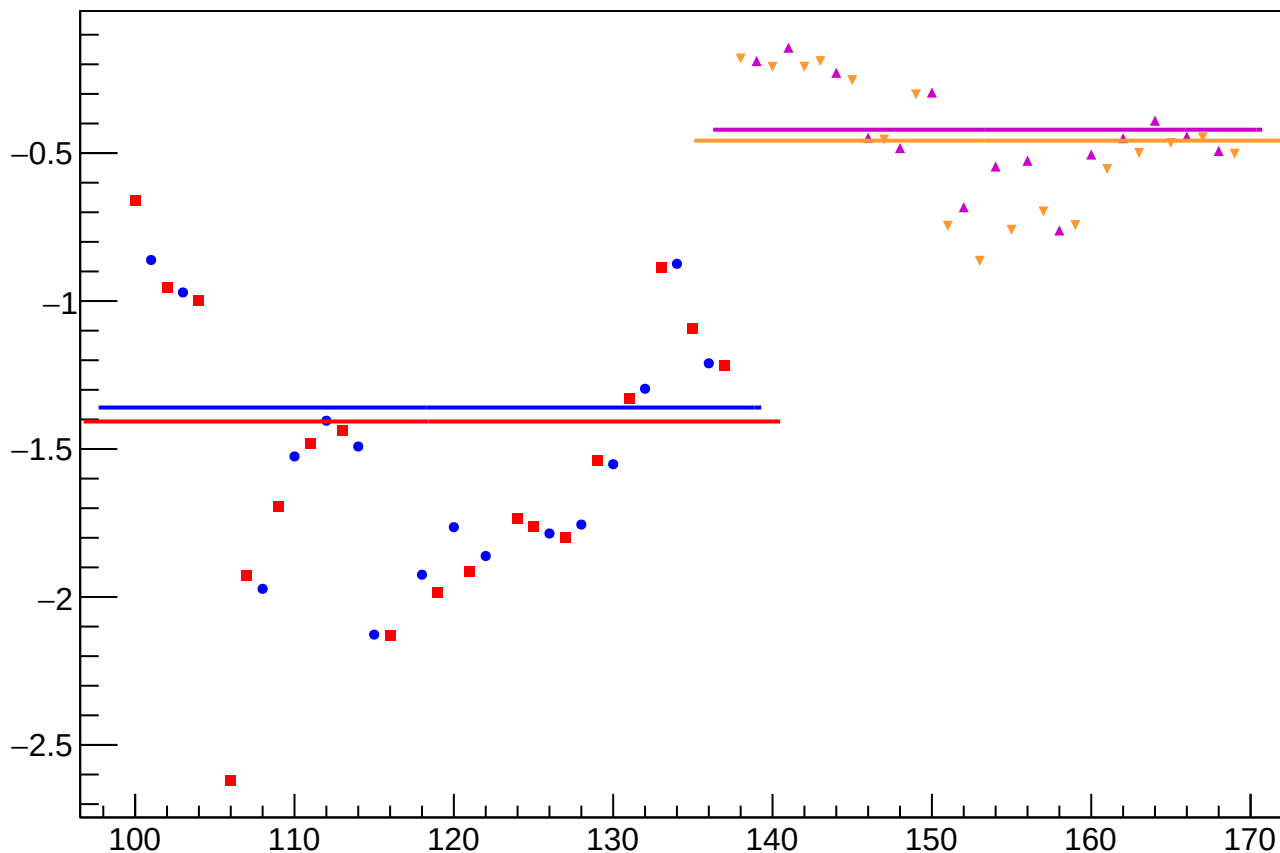
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 3028539.8/34

In: 0.007 $\pm$ 0.000 χ^2 /NDF:2247736.1/30

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:2031064.3/35

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 4285504.1/66

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.360 $\pm$ 0.000 χ^2 /NDF: 21491965614.5/15

Left Out: -0.458 $\pm$ 0.000 χ^2 /NDF: 27986335911.1/16

Right Out: -1.407 $\pm$ 0.000 χ^2 /NDF: 29835610413.0/18

Left In: -0.421 $\pm$ 0.000 χ^2 /NDF: 15747319954.9/14

Left: -0.441 $\pm$ 0.000 χ^2 /NDF: 44113233636.0/31

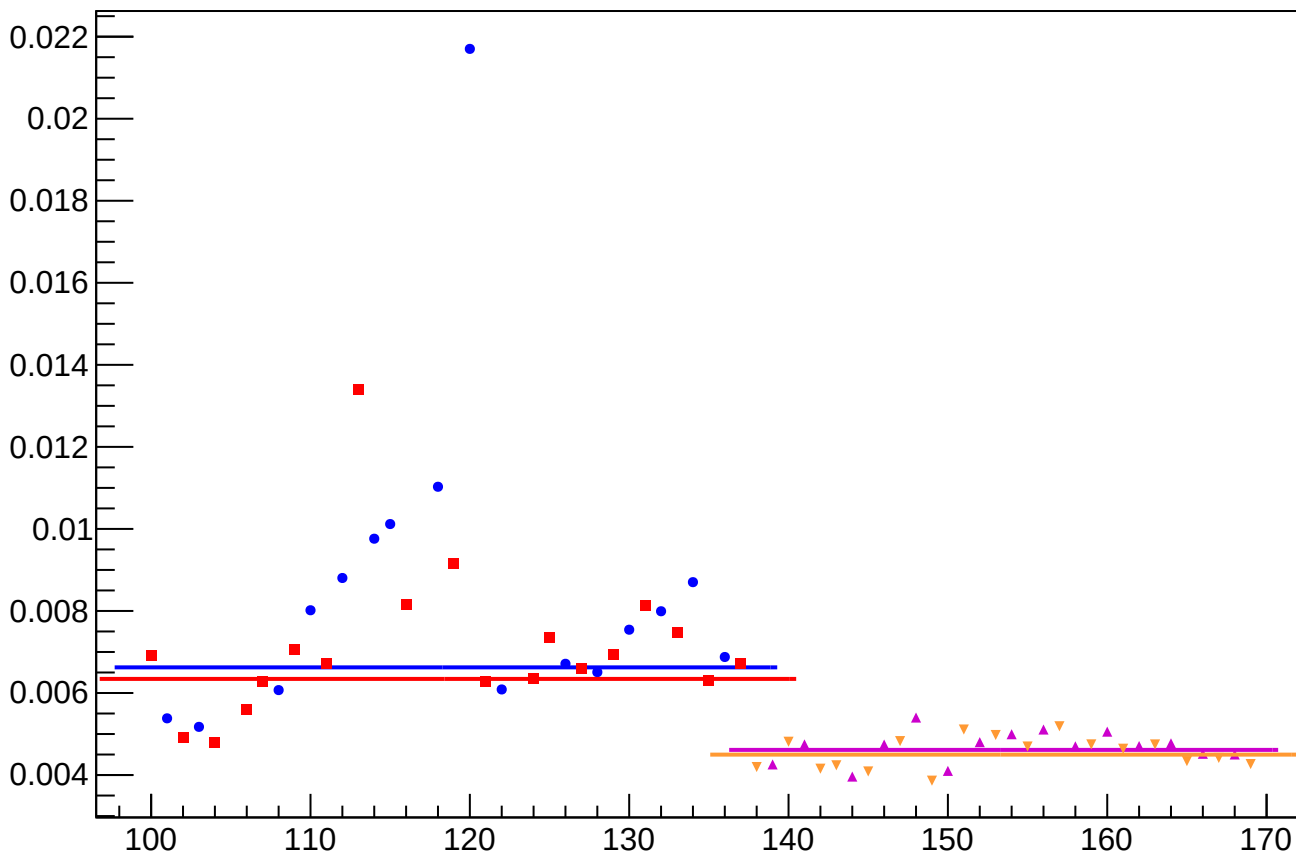
Right: -1.385 $\pm$ 0.000 χ^2 /NDF: 51484688313.9/34

In: -0.611 $\pm$ 0.000 χ^2 /NDF: 129936885423.1/30

Out: -0.651 $\pm$ 0.000 χ^2 /NDF: 166885379630.0/35

All: -0.633 $\pm$ 0.000 χ^2 /NDF: 297378244699.4

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 693783.1/15

Left Out: 0.004+/-0.000 χ^2/NDF :162755.1/16

Right Out: 0.006+/-0.000 χ^2/NDF : 529170.9/18

Left In: 0.005+/-0.000 χ^2/NDF :150631.6/14

Left: 0.005+/-0.000 χ^2/NDF : 320773.4/31

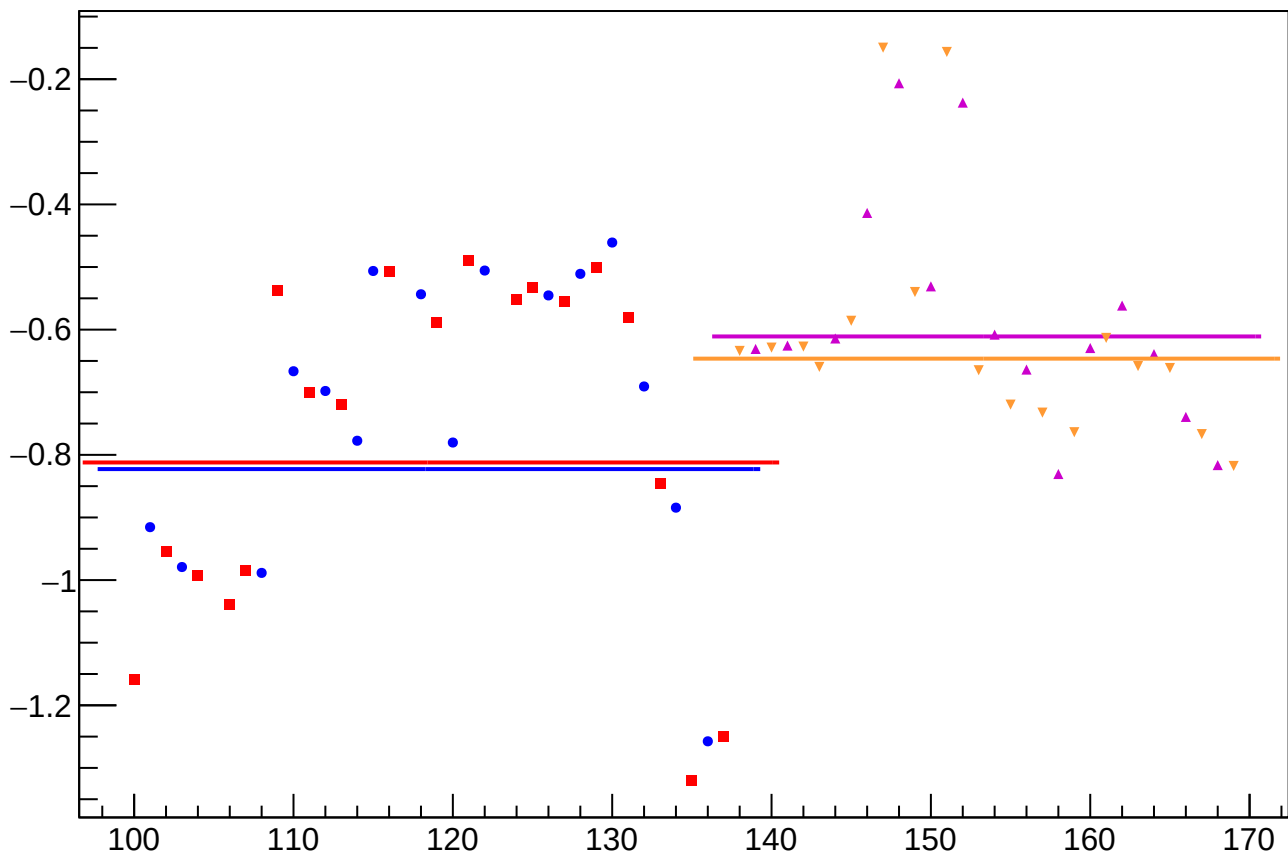
Right: 0.006+/-0.000 χ^2/NDF : 1234142.9/34

In: 0.005+/-0.000 χ^2/NDF :1695654.8/30

Out: 0.005+/-0.000 χ^2/NDF :1517091.9/35

All: 0.005+/-0.000 χ^2/NDF : 3227838.5/66

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -0.823 ± 0.000 $\chi^2/\text{NDF}: 12226599844.5/15$

Left Out: -0.646 ± 0.000 $\chi^2/\text{NDF}: 18594305758.9/16$

Right Out: -0.812 ± 0.000 $\chi^2/\text{NDF}: 14825441332.4/18$

Left In: -0.611 ± 0.000 $\chi^2/\text{NDF}: 17314373792.6/14$

Left: -0.630 ± 0.000 $\chi^2/\text{NDF}: 36254078283.0/31$

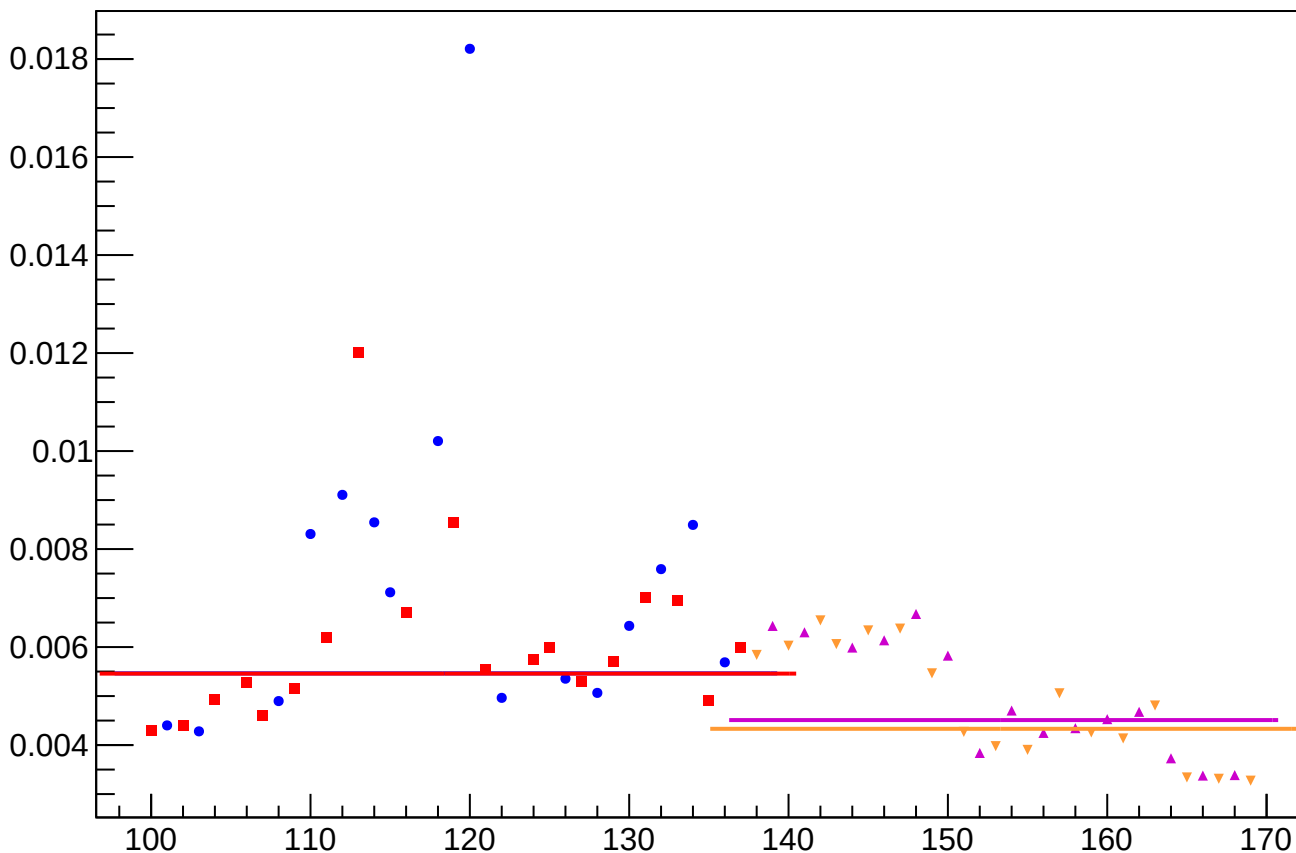
Right: -0.817 ± 0.000 $\chi^2/\text{NDF}: 27062819602.4/34$

In: -0.667 ± 0.000 $\chi^2/\text{NDF}: 35628704759.5/30$

Out: -0.688 ± 0.000 $\chi^2/\text{NDF}: 37561978446.3/35$

All: -0.678 ± 0.000 $\chi^2/\text{NDF}: 73357498239.9/70$

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 961483.6/15

Left Out: 0.004+/-0.000 χ^2/NDF :1252037.1/16

Right Out: 0.005+/-0.000 χ^2/NDF : 507792.7/18

Left In: 0.005+/-0.000 χ^2/NDF :1122947.1/14

Left: 0.004+/-0.000 χ^2/NDF : 2392438.5/31

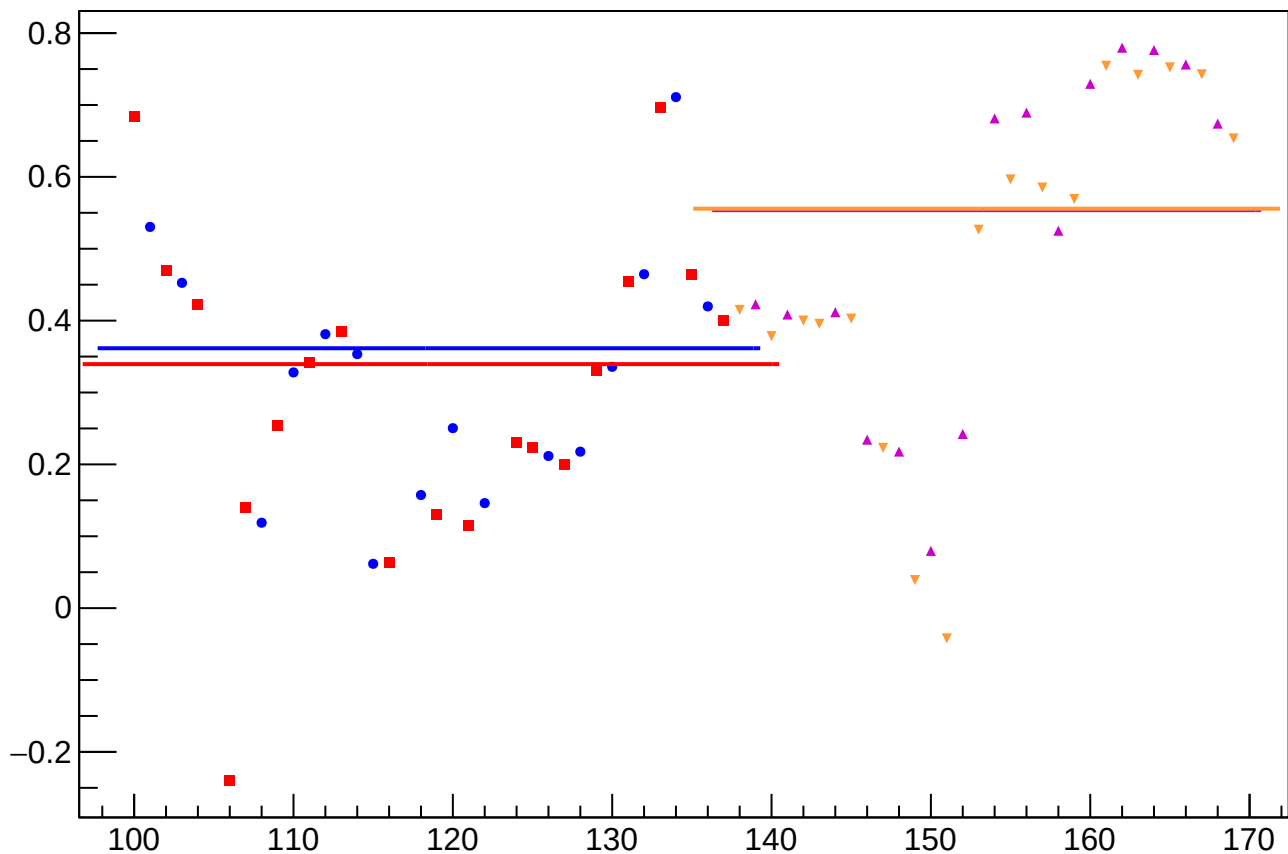
Right: 0.005+/-0.000 χ^2/NDF : 1469281.0/34

In: 0.005+/-0.000 χ^2/NDF :2330887.6/30

Out: 0.005+/-0.000 χ^2/NDF :2142032.3/35

All: 0.005+/-0.000 χ^2/NDF : 4488758.4/66

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.362+/-0.000

χ^2/NDF : 8775952187.9/15

Left: 0.555+/-0.000

χ^2/NDF : 70415320768.9/31

Left Out: 0.556+/-0.000

χ^2/NDF : 38269106668.9/16

Right: 0.350+/-0.000

χ^2/NDF : 20941665635.5/34

Right Out: 0.339+/-0.000

χ^2/NDF : 12071802789.9/18

In: 0.488+/-0.000

χ^2/NDF : 49823370138.1/30

Out: 0.485+/-0.000

χ^2/NDF : 63119742636.1/35

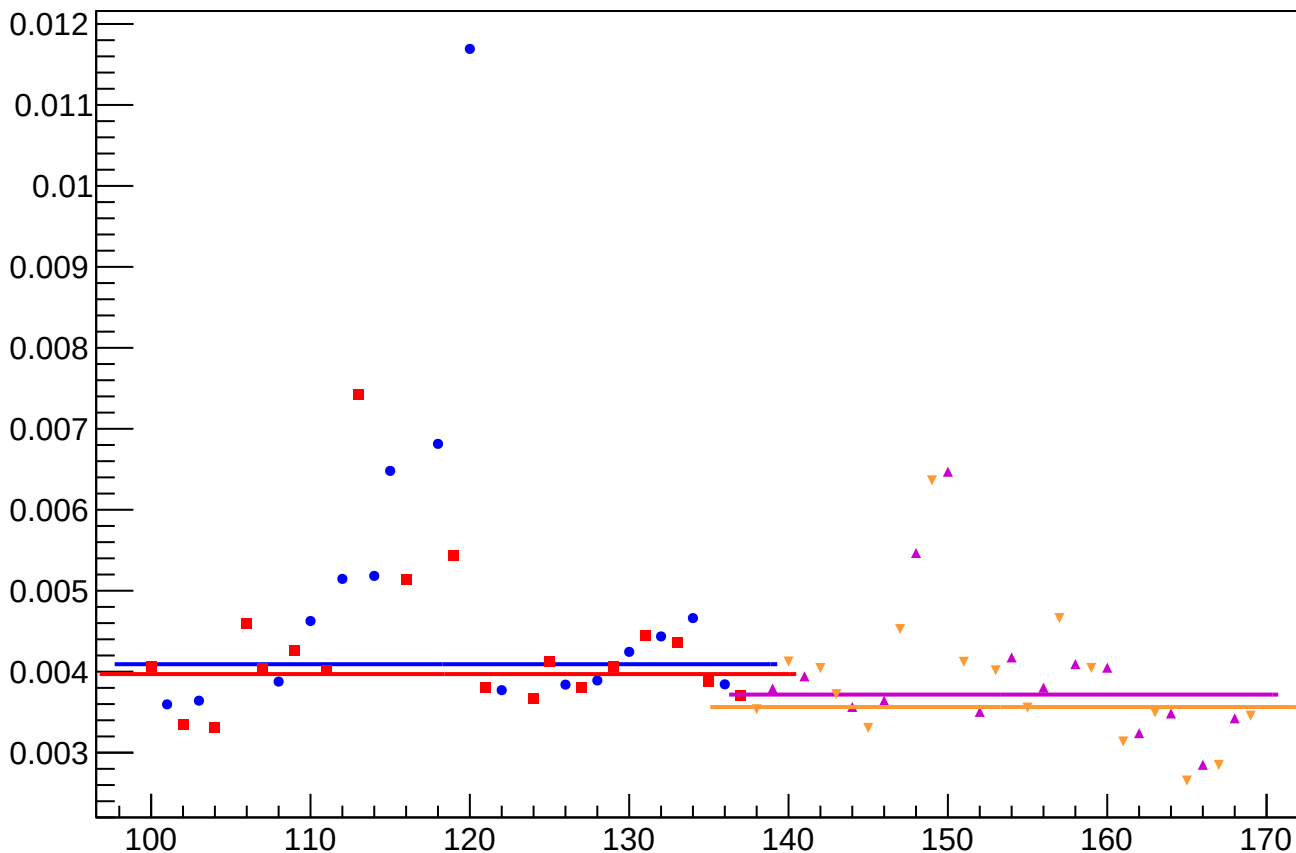
Left In: 0.554+/-0.000

χ^2/NDF : 32144638857.8/14

All: 0.486+/-0.000

χ^2/NDF : 112949939793.9

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 491748.3/15

Left Out: 0.004+/-0.000 χ^2/NDF : 740307.6/16

Right Out: 0.004+/-0.000 χ^2/NDF : 313701.1/18

Left In: 0.004+/-0.000 χ^2/NDF : 583004.7/14

Left: 0.004+/-0.000 χ^2/NDF : 1341403.6/31

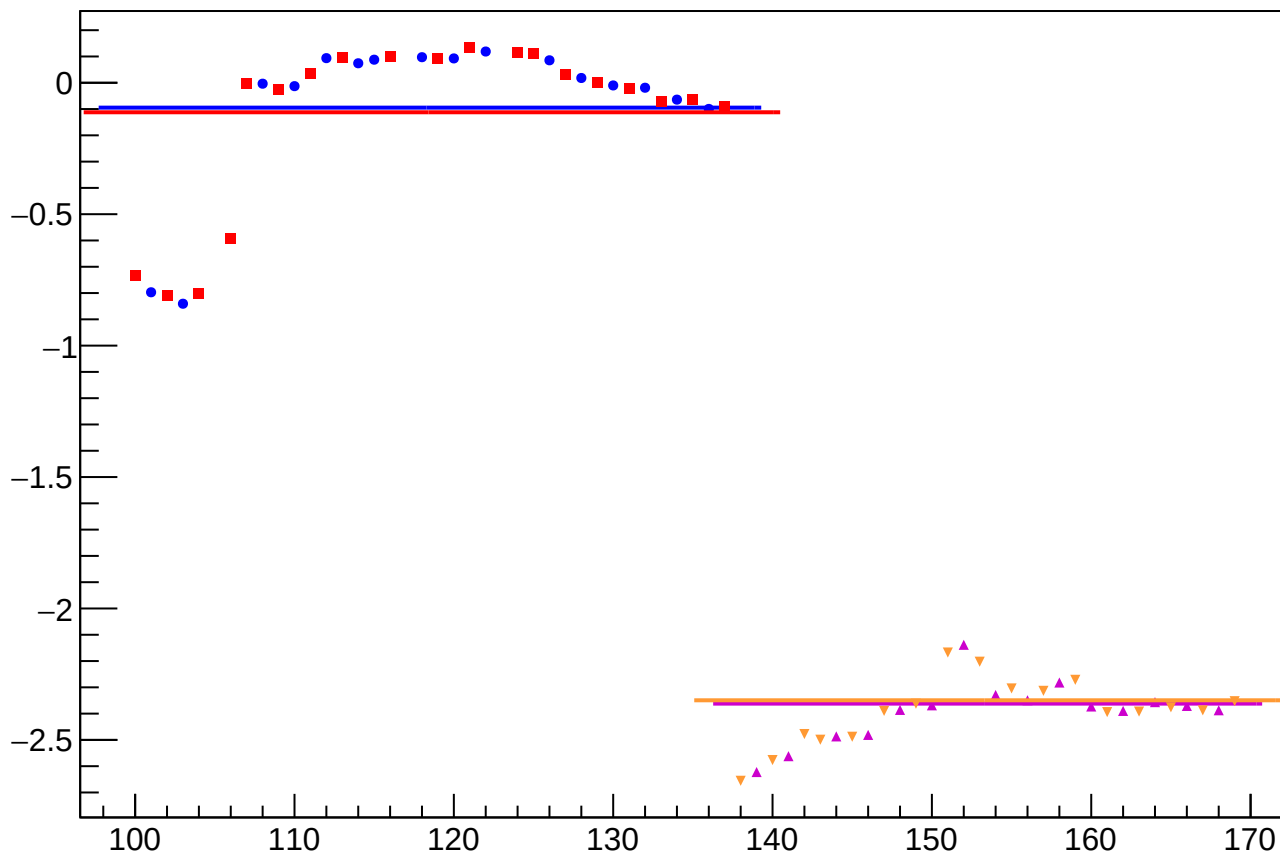
Right: 0.004+/-0.000 χ^2/NDF : 811192.6/34

In: 0.004+/-0.000 χ^2/NDF : 1142688.3/30

Out: 0.004+/-0.000 χ^2/NDF : 1144523.7/35

All: 0.004+/-0.000 χ^2/NDF : 2312460.9/66

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.095+/-0.000 χ^2/NDF : 5489721985.1/15

Left Out: -2.349+/-0.000 χ^2/NDF : 1671964983.4/16

Right Out: -0.112+/-0.000 χ^2/NDF : 6190163375.6/18

Left In: -2.362+/-0.000 χ^2/NDF : 1291211906.3/14

Left: -2.355+/-0.000 χ^2/NDF : 2973259386.7/31

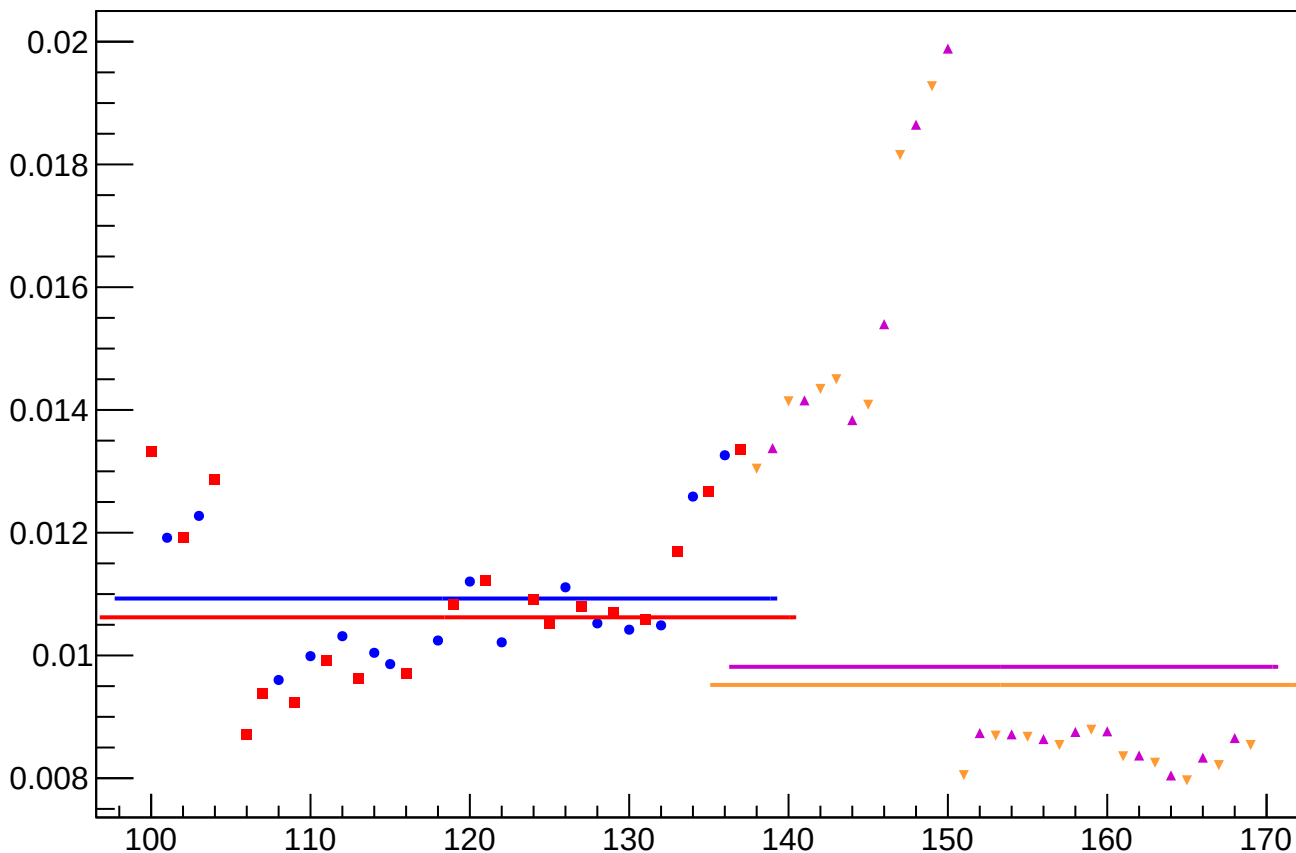
Right: -0.104+/-0.000 χ^2/NDF : 11689577002.2/34

In: -1.603+/-0.000 χ^2/NDF : 210714006954.1/30

Out: -1.626+/-0.000 χ^2/NDF : 229092275000.5/35

All: -1.615+/-0.000 χ^2/NDF : 439856865565.5

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 136478.1/15

Left Out: 0.010+/-0.000 χ^2/NDF :1844193.2/16

Right Out: 0.011+/-0.000 χ^2/NDF : 190526.1/18

Left In: 0.010+/-0.000 χ^2/NDF :1809665.9/14

Left: 0.010+/-0.000 χ^2/NDF : 3664938.6/31

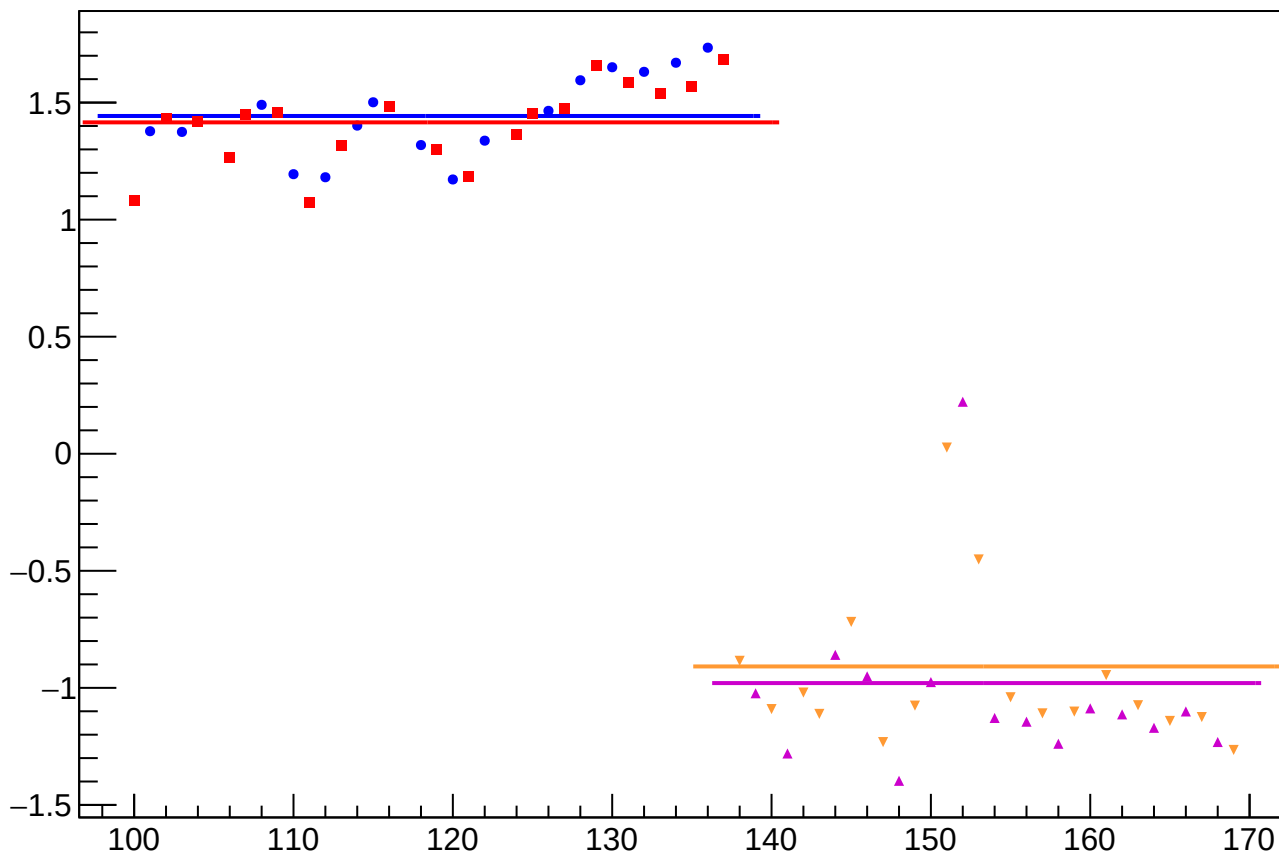
Right: 0.011+/-0.000 χ^2/NDF : 332847.6/34

In: 0.010+/-0.000 χ^2/NDF :2044322.2/30

Out: 0.010+/-0.000 χ^2/NDF :2142038.9/35

All: 0.010+/-0.000 χ^2/NDF : 4204745.4/66

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.443+/-0.000 χ^2/NDF : 3739724691.1/15

Left Out: -0.909+/-0.000 χ^2/NDF : 32467653480.2/16

Right Out: 1.415+/-0.000 χ^2/NDF : 2803466123.0/18

Left In: -0.980+/-0.000 χ^2/NDF : 40986868132.2/14

Left: -0.942+/-0.000 χ^2/NDF : 74011431699.8/31

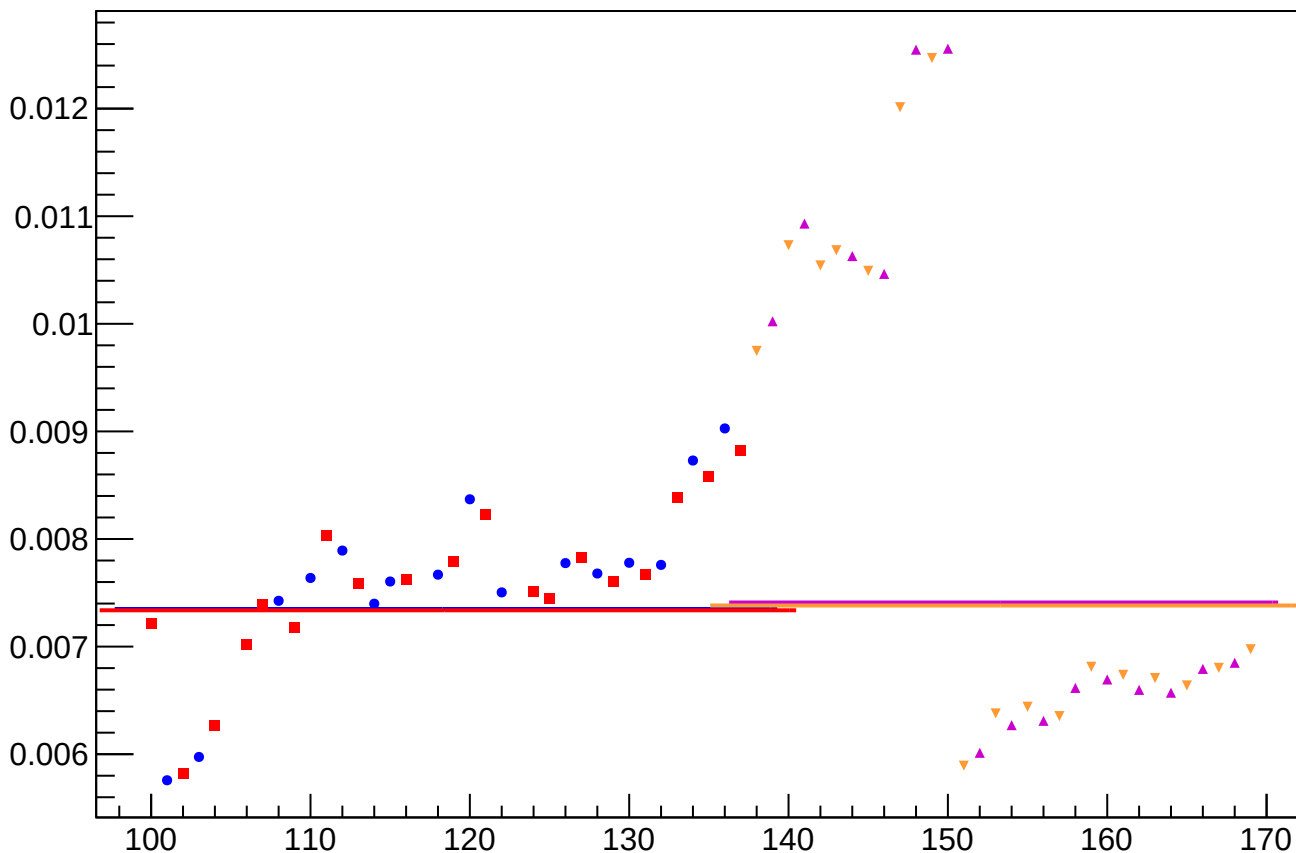
Right: 1.429+/-0.000 χ^2/NDF : 6593016759.0/34

In: -0.053+/-0.000 χ^2/NDF : 518577036925.8/30

Out: -0.044+/-0.000 χ^2/NDF : 499696903855.8/35

All: -0.048+/-0.000 χ^2/NDF : 1018286888867

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 270864.2/15

Left Out: 0.007+/-0.000 χ^2/NDF :1453230.4/16

Right Out: 0.007+/-0.000 χ^2/NDF : 195372.6/18

Left In: 0.007+/-0.000 χ^2/NDF :1504022.1/14

Left: 0.007+/-0.000 χ^2/NDF : 2957423.3/31

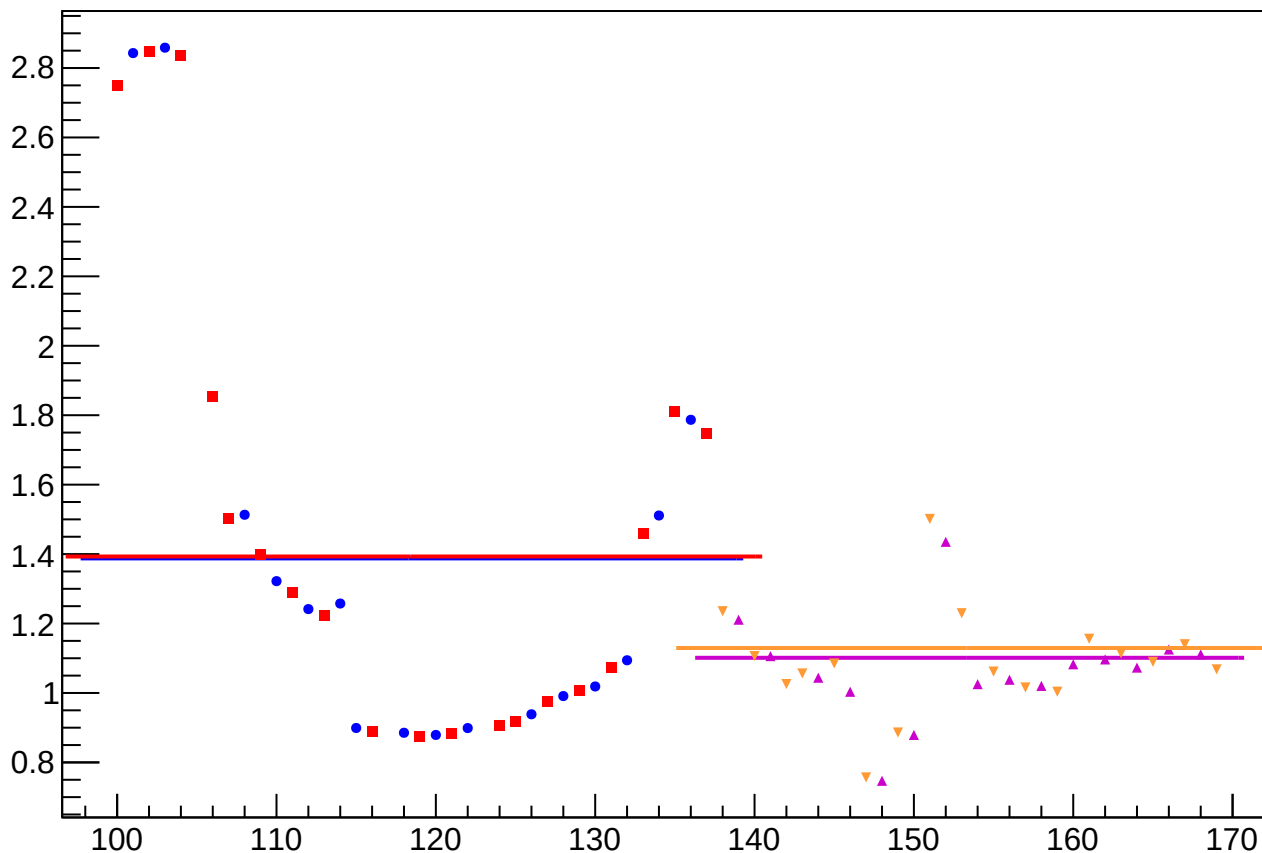
Right: 0.007+/-0.000 χ^2/NDF : 466255.6/34

In: 0.007+/-0.000 χ^2/NDF :1775476.2/30

Out: 0.007+/-0.000 χ^2/NDF :1648942.9/35

All: 0.007+/-0.000 χ^2/NDF : 3424579.0/66

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.388 $\pm$ 0.000 χ^2 /NDF: 58612635453.0/15

Left Out: 1.130 $\pm$ 0.000 χ^2 /NDF: 5410079755.3/16

Right Out: 1.393 $\pm$ 0.000 χ^2 /NDF: 55365724659.7/18

Left In: 1.101 $\pm$ 0.000 χ^2 /NDF: 4163657069.4/14

Left: 1.116 $\pm$ 0.000 χ^2 /NDF: 9664330036.1/31

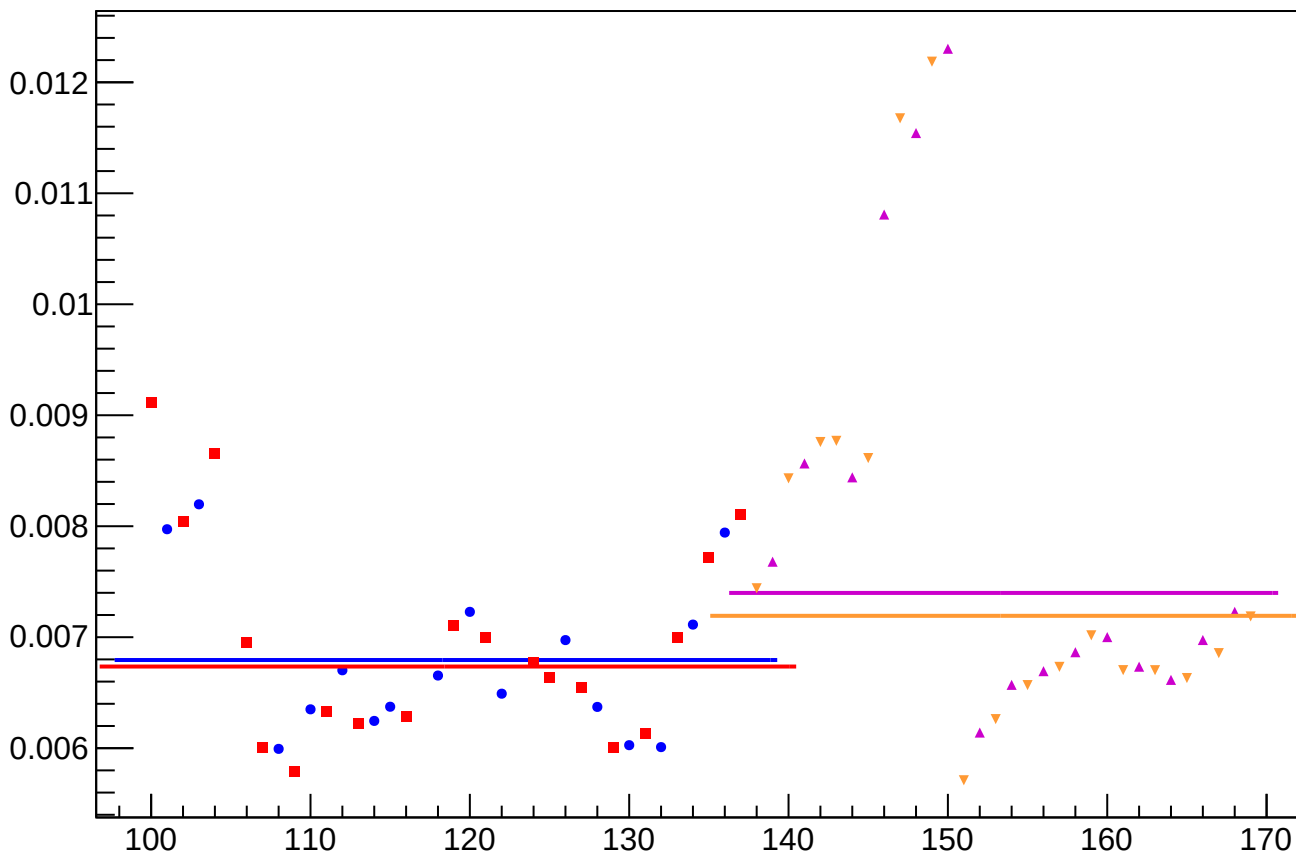
Right: 1.390 $\pm$ 0.000 χ^2 /NDF: 113980694957.7/34

In: 1.221 $\pm$ 0.000 χ^2 /NDF: 70094289724.6/30

Out: 1.235 $\pm$ 0.000 χ^2 /NDF: 67528891135.9/35

All: 1.229 $\pm$ 0.000 χ^2 /NDF: 137658280499.5

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 164456.7/15

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:824974.1/16

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 198492.7/18

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:856495.1/14

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 1691123.8/31

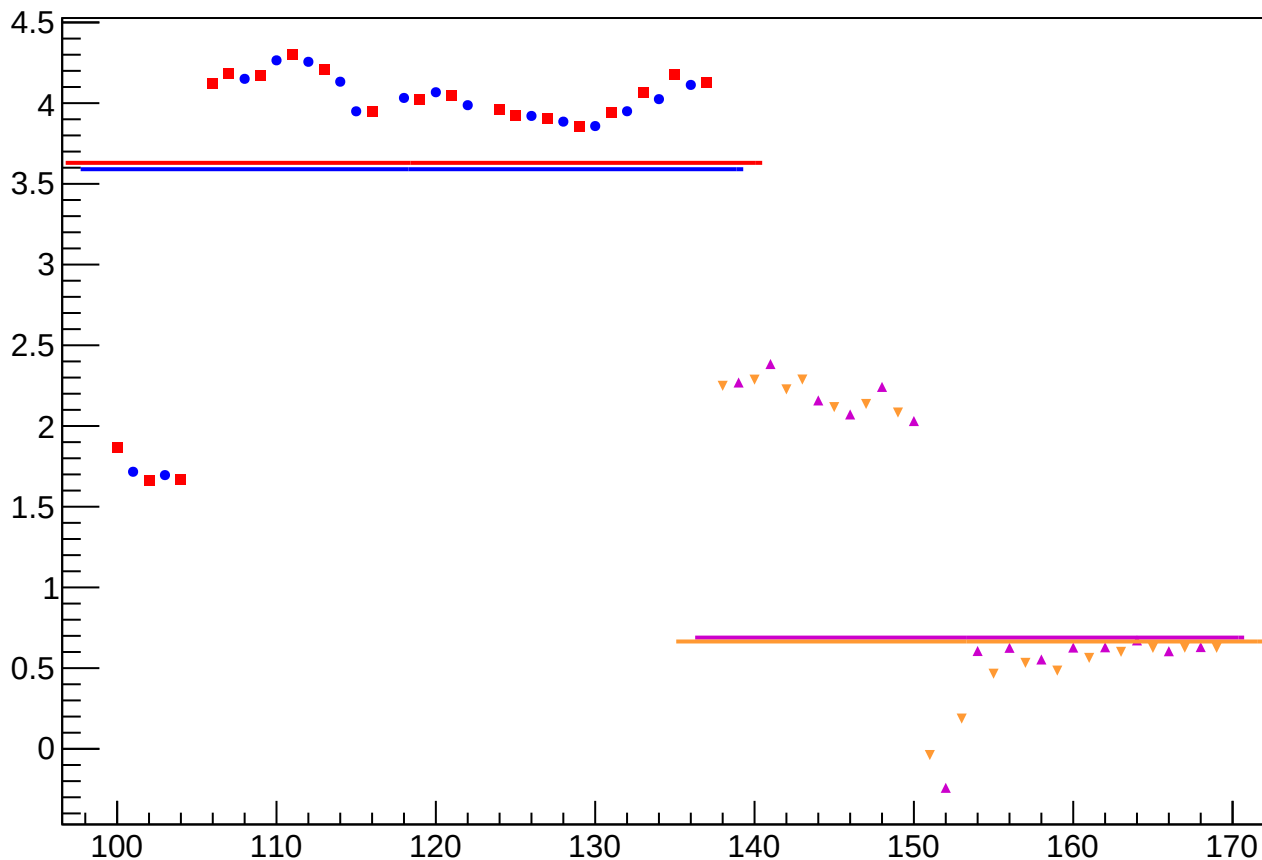
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 363493.8/34

In: 0.007 $\pm$ 0.000 χ^2 /NDF:1086207.1/30

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:1064097.7/35

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 2157358.9/66

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 3.591+/-0.000 χ^2/NDF : 202184644473.7/15

Left Out: 0.665+/-0.000 χ^2/NDF : 244269794707.7/16

Right Out: 3.630+/-0.000 χ^2/NDF : 212588390342.3/18

Left In: 0.689+/-0.000 χ^2/NDF : 242431802794.1/14

Left: 0.677+/-0.000 χ^2/NDF : 486890832421.5/31

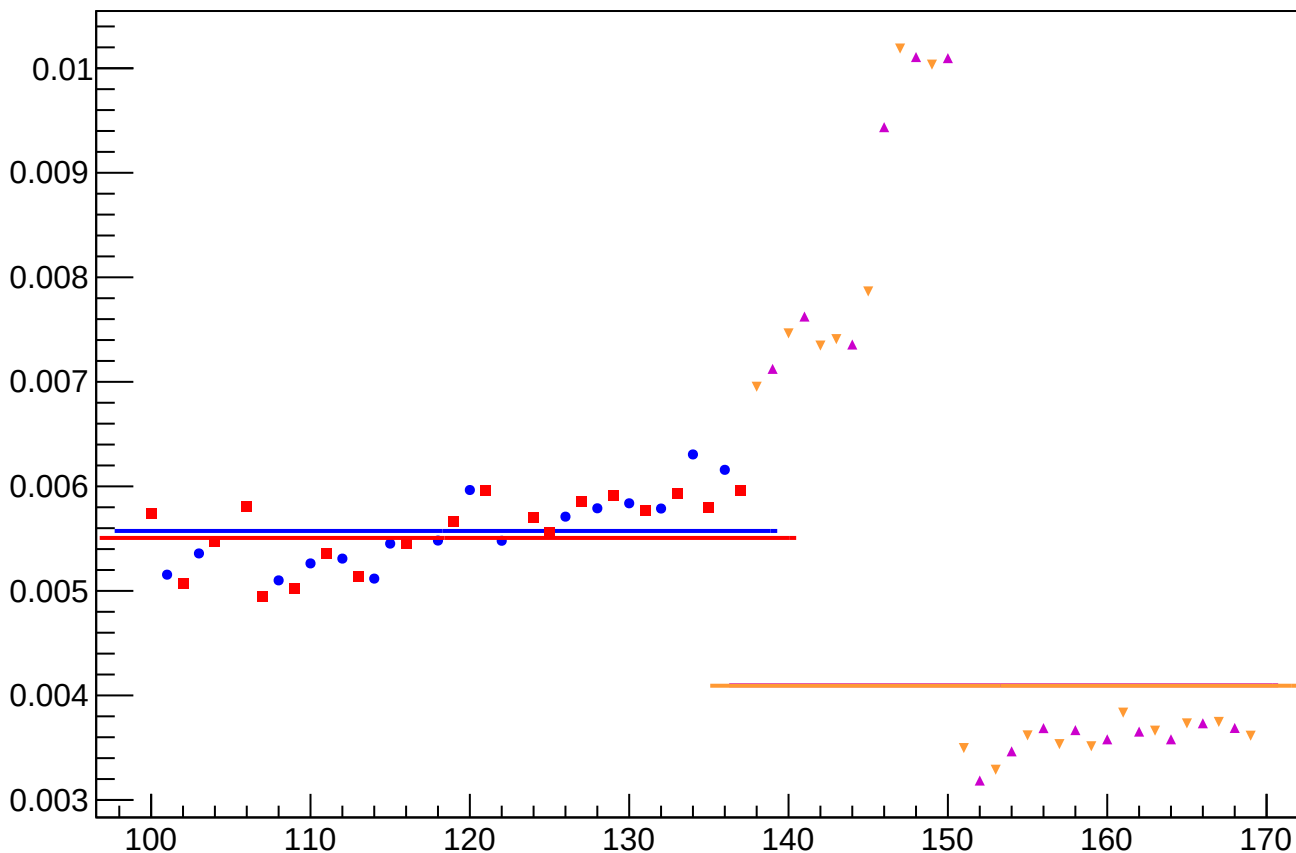
Right: 3.611+/-0.000 χ^2/NDF : 414956393826.7/34

In: 1.474+/-0.000 χ^2/NDF : 1861425628657.8/30

Out: 1.440+/-0.000 χ^2/NDF : 2020318780182.1/35

All: 1.457+/-0.000 χ^2/NDF : 3882251132518.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 59130.1/15

Left Out: 0.004+/-0.000 χ^2/NDF : 2811680.2/16

Right Out: 0.006+/-0.000 χ^2/NDF : 57427.9/18

Left In: 0.004+/-0.000 χ^2/NDF : 2984021.2/14

Left: 0.004+/-0.000 χ^2/NDF : 5795712.9/31

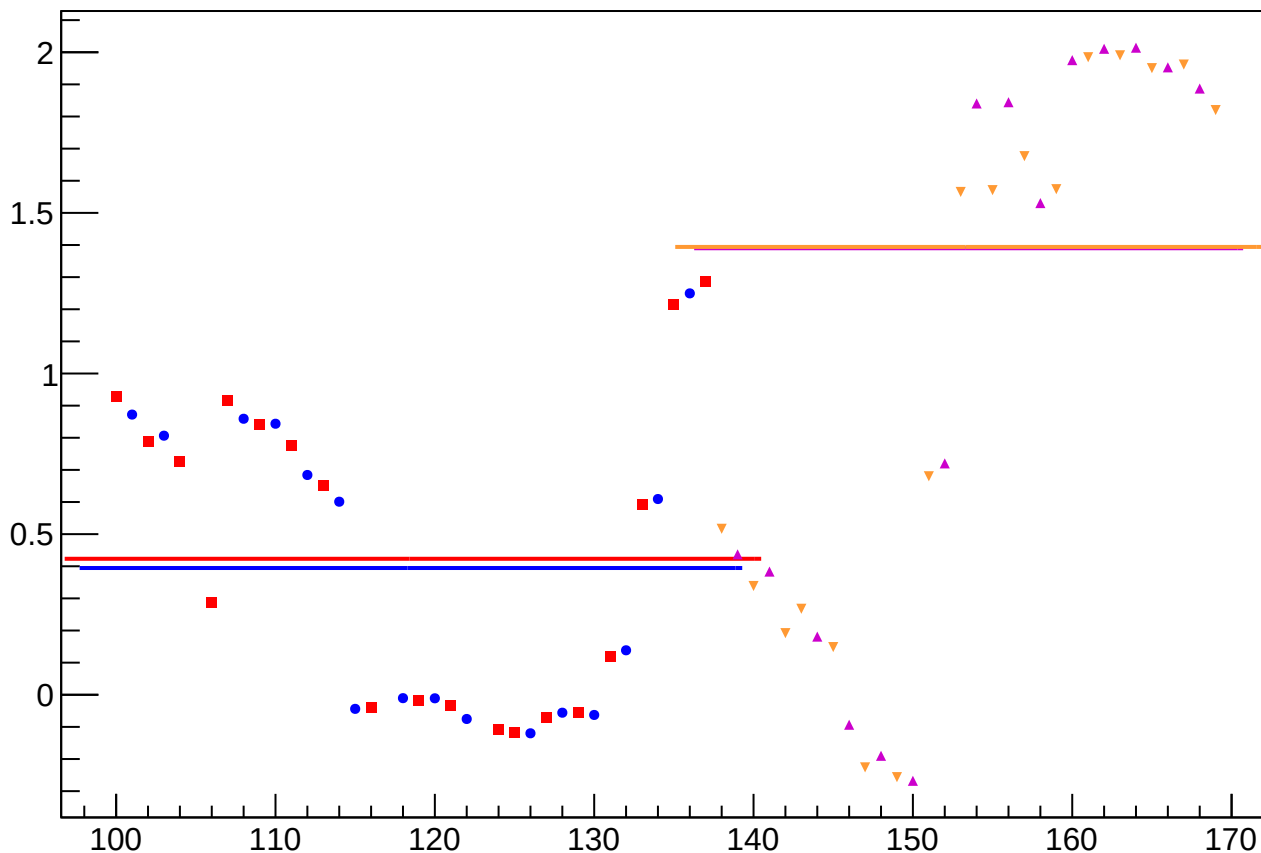
Right: 0.006+/-0.000 χ^2/NDF : 117612.2/34

In: 0.004+/-0.000 χ^2/NDF : 3776904.8/30

Out: 0.004+/-0.000 χ^2/NDF : 3580026.8/35

All: 0.004+/-0.000 χ^2/NDF : 7357954.9/66

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 0.395+/-0.000

χ^2/NDF : 7412548044.8/15

Left: 1.392+/-0.000 χ^2/NDF : 105752032404.3/31

Right: 0.409+/-0.000 χ^2/NDF : 14330729641.2/34

Left Out: 1.394+/-0.000

χ^2/NDF : 50787933462.5/16

In: 1.130+/-0.000 χ^2/NDF : 86871730181.7/30

Out: 1.152+/-0.000 χ^2/NDF : 82317838543.1/35

Right Out: 0.423+/-0.000

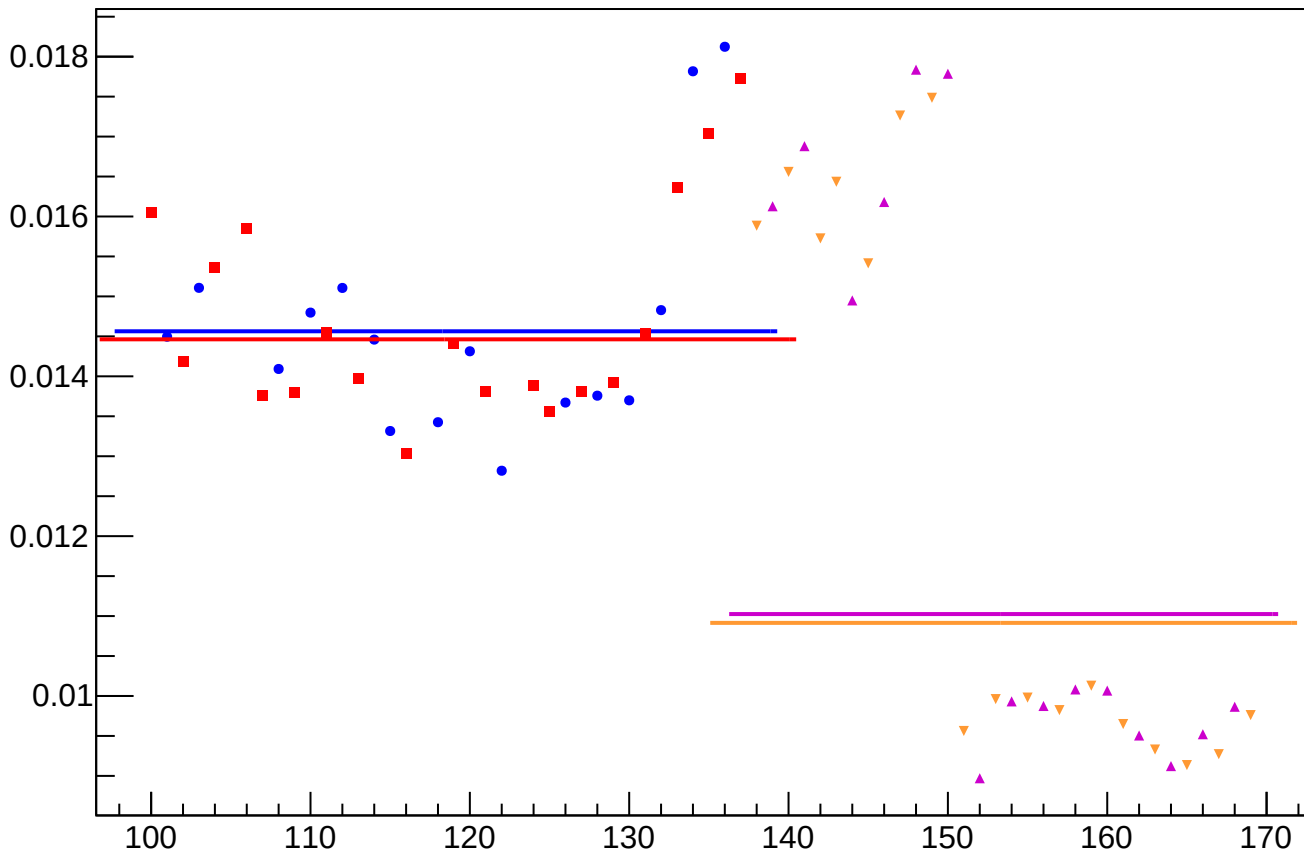
χ^2/NDF : 6904060515.1/18

Left In: 1.390+/-0.000

χ^2/NDF : 54963252288.2/14

All: 1.141+/-0.000 χ^2/NDF : 169220826161.1

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 133134.7/15

Left Out: 0.011+/-0.000 χ^2/NDF :1479923.8/16

Right Out: 0.014+/-0.000 χ^2/NDF : 77396.3/18

Left In: 0.011+/-0.000 χ^2/NDF :1483317.5/14

Left: 0.011+/-0.000 χ^2/NDF : 2964452.0/31

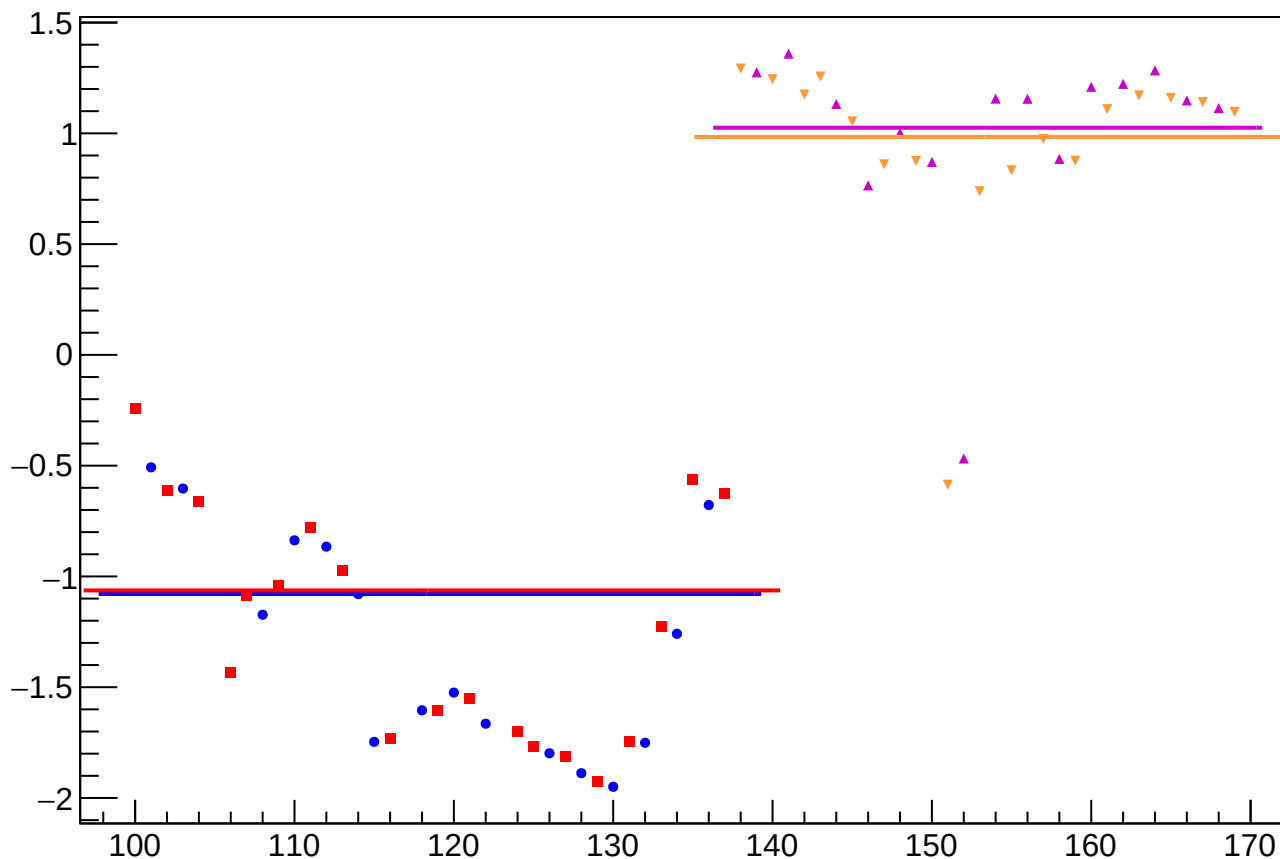
Right: 0.015+/-0.000 χ^2/NDF : 210877.4/34

In: 0.012+/-0.000 χ^2/NDF :2235617.1/30

Out: 0.012+/-0.000 χ^2/NDF :2215317.5/35

All: 0.012+/-0.000 χ^2/NDF : 4453873.3/66

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -1.079+/-0.000 χ^2/NDF : 59756571764.5/15

Left Out: 0.984+/-0.000 χ^2/NDF : 108841100640.4/16

Right Out: -1.063+/-0.000 χ^2/NDF : 49910403943.5/18

Left In: 1.025+/-0.000 χ^2/NDF : 124737532559.6/14

Left: 1.004+/-0.000 χ^2/NDF : 234340552639.7/31

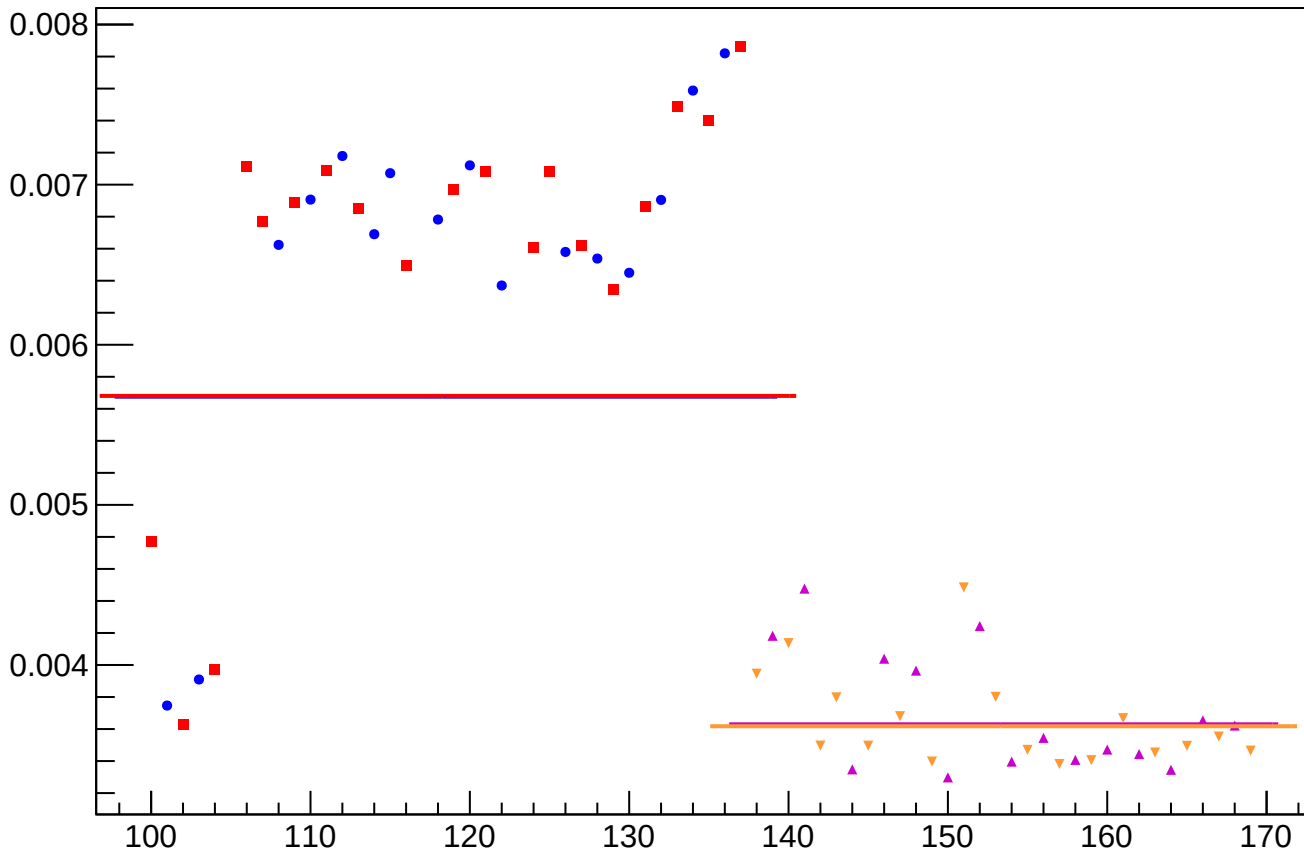
Right: -1.071+/-0.000 χ^2/NDF : 109693375141.4/34

In: 0.624+/-0.000 χ^2/NDF : 893188431928.6/30

Out: 0.620+/-0.000 χ^2/NDF : 847178576452.4/35

All: 0.622+/-0.000 χ^2/NDF : 1740377036340.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 944822.9/15

Left Out: 0.004+/-0.000 χ^2/NDF :126536.7/16

Right Out: 0.006+/-0.000 χ^2/NDF : 980583.9/18

Left In: 0.004+/-0.000 χ^2/NDF :202970.3/14

Left: 0.004+/-0.000 χ^2/NDF : 329633.2/31

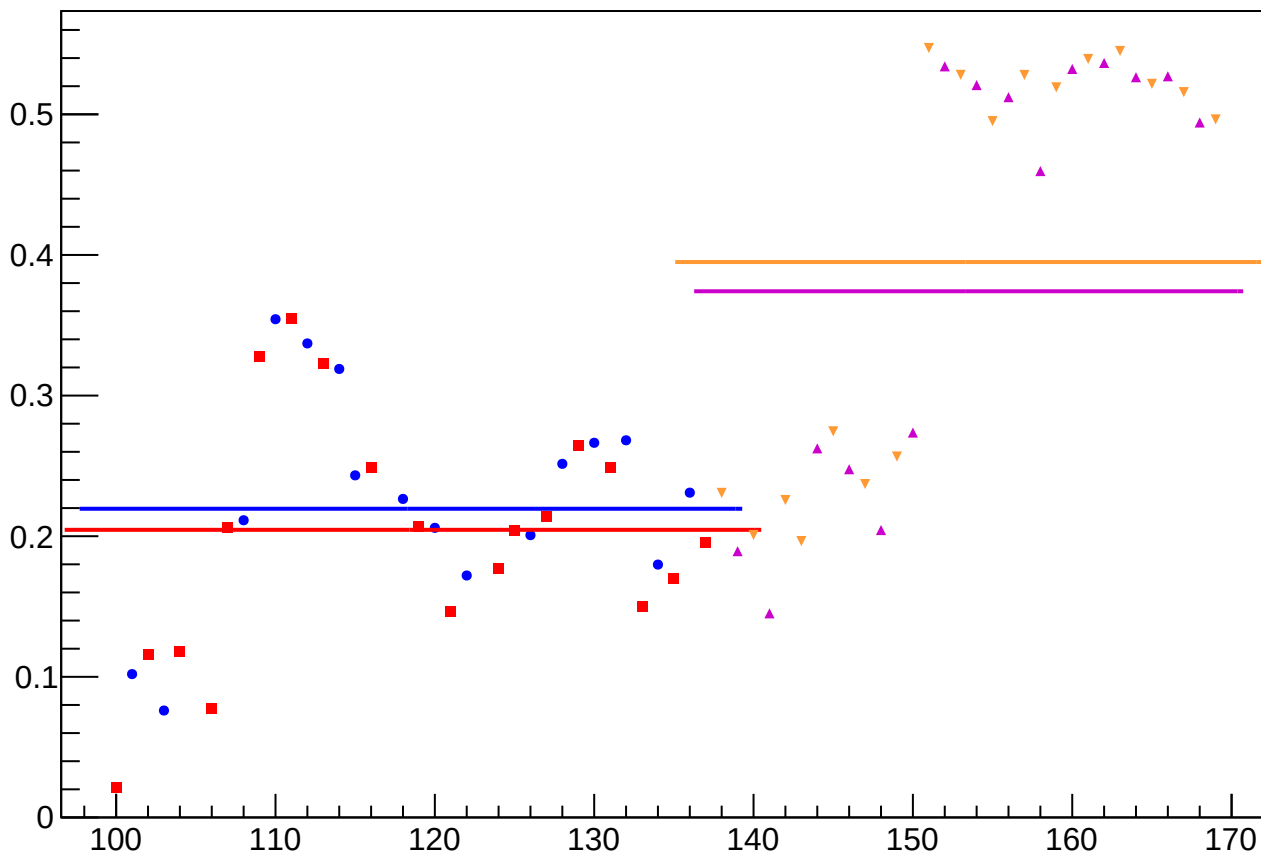
Right: 0.006+/-0.000 χ^2/NDF : 1925411.0/34

In: 0.004+/-0.000 χ^2/NDF :2487784.7/30

Out: 0.004+/-0.000 χ^2/NDF :2505836.2/35

All: 0.004+/-0.000 χ^2/NDF : 4994965.2/66

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.220+/-0.000

χ^2/NDF : 16729743257.8/15

Left: 0.385+/-0.000 χ^2/NDF : 251231661502.7/31

Right: 0.212+/-0.000 χ^2/NDF : 39451425816.8/34

Left Out: 0.395+/-0.000

χ^2/NDF : 130272193609.4/16

In: 0.312+/-0.000 χ^2/NDF : 186688753275.2/30

Right Out: 0.205+/-0.000 χ^2/NDF : 22312377506.1/18

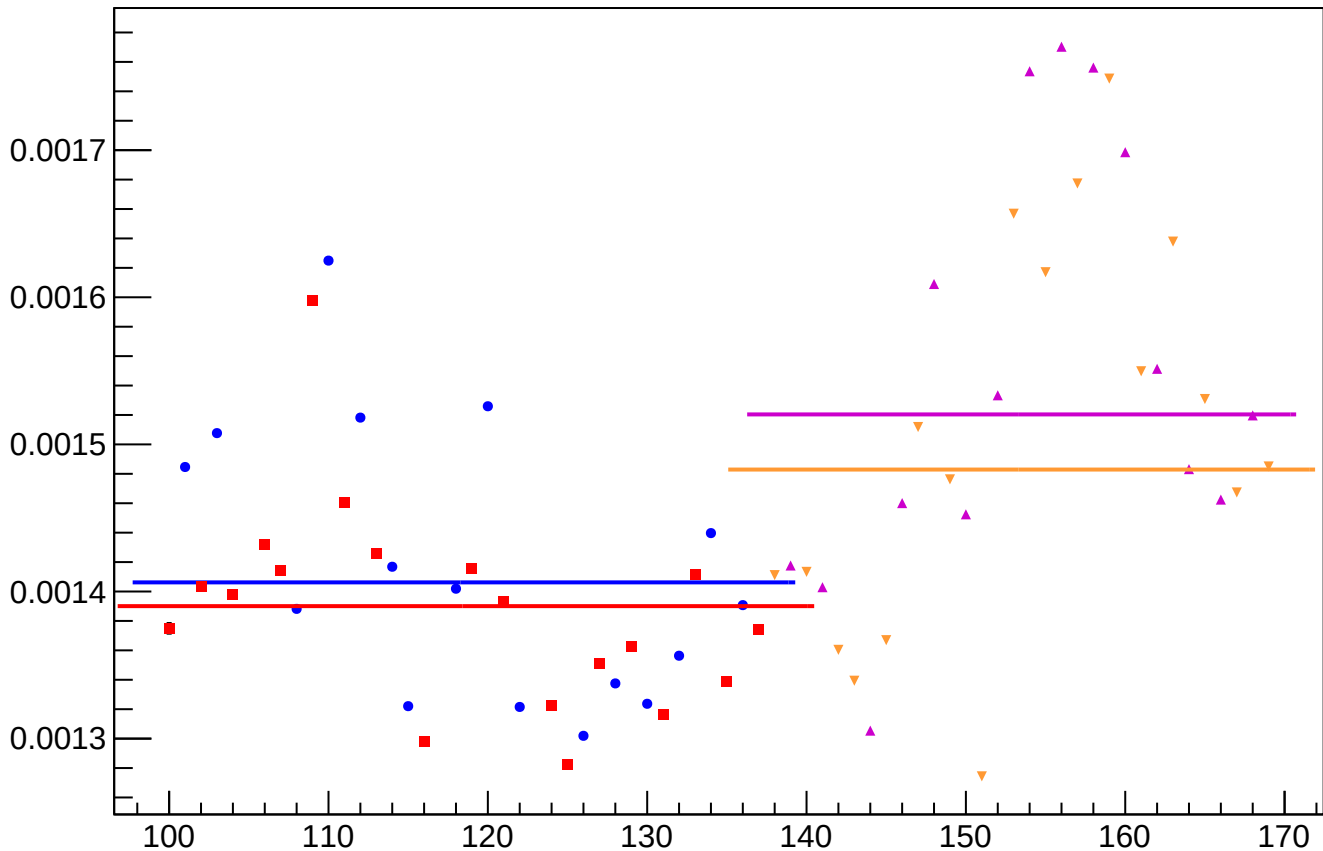
Out: 0.321+/-0.000 χ^2/NDF : 236867456679.9/35

Left In: 0.374+/-0.000

χ^2/NDF : 119752661148.7/14

All: 0.317+/-0.000 χ^2/NDF : 423942087561.3

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 48200.9/15

Left Out: 0.001+/-0.000 χ^2/NDF :200805.2/16

Right Out: 0.001+/-0.000 χ^2/NDF : 34786.9/18

Left In: 0.002+/-0.000 χ^2/NDF :196375.2/14

Left: 0.002+/-0.000 χ^2/NDF : 405026.0/31

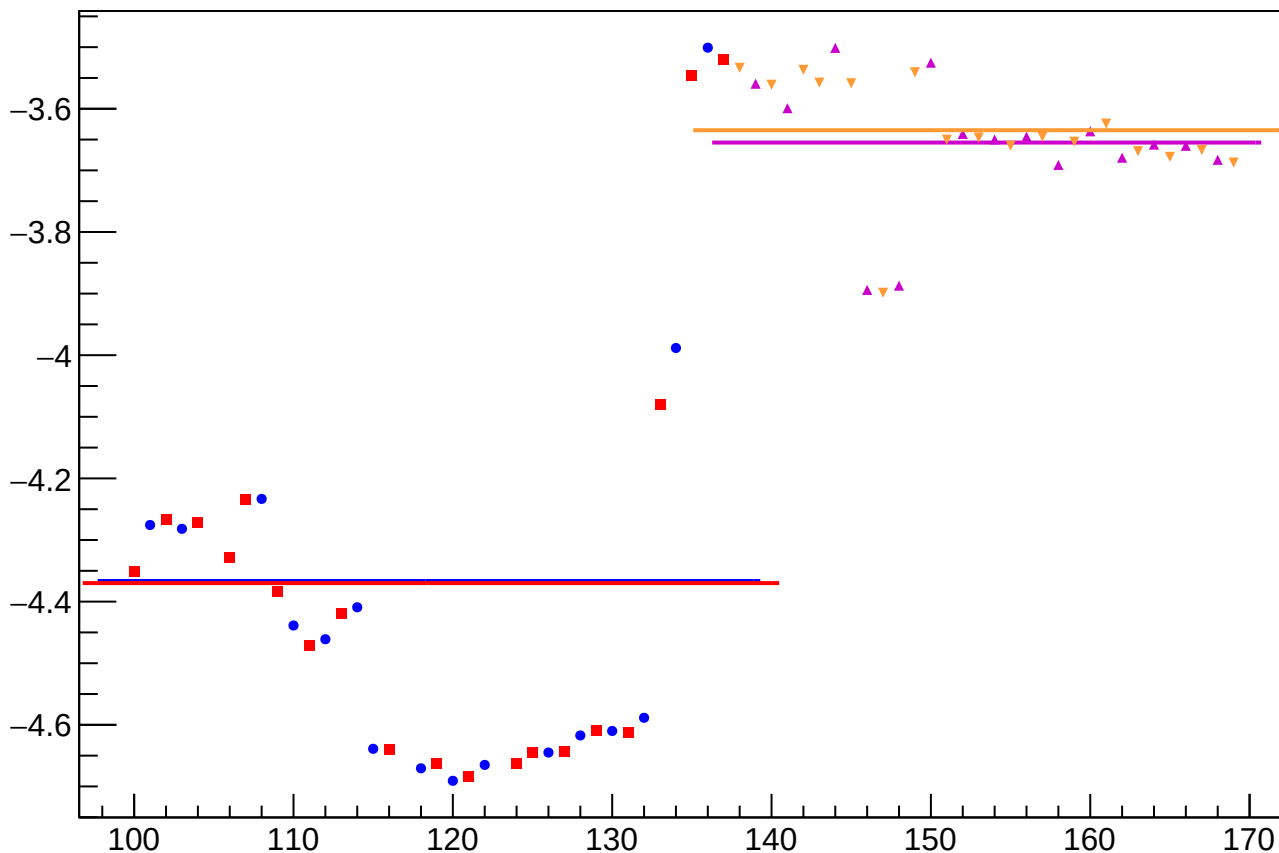
Right: 0.001+/-0.000 χ^2/NDF : 83938.6/34

In: 0.001+/-0.000 χ^2/NDF :299305.3/30

Out: 0.001+/-0.000 χ^2/NDF :275659.6/35

All: 0.001+/-0.000 χ^2/NDF : 581987.6/66

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.367+/-0.000

χ^2/NDF : 353013303743.6/15

Left: -3.644+/-0.000

χ^2/NDF : 57361069032.8/31

Right: -4.368+/-0.000

χ^2/NDF : 649165512283.3/34

Left Out: -3.635+/-0.000

χ^2/NDF : 23034299331.5/16

In: -3.949+/-0.000

χ^2/NDF : 1165121139596.9/30

Right Out: -4.370+/-0.000

χ^2/NDF : 296136368274.3/18

Out: -3.925+/-0.000

χ^2/NDF : 1217373895036.3/35

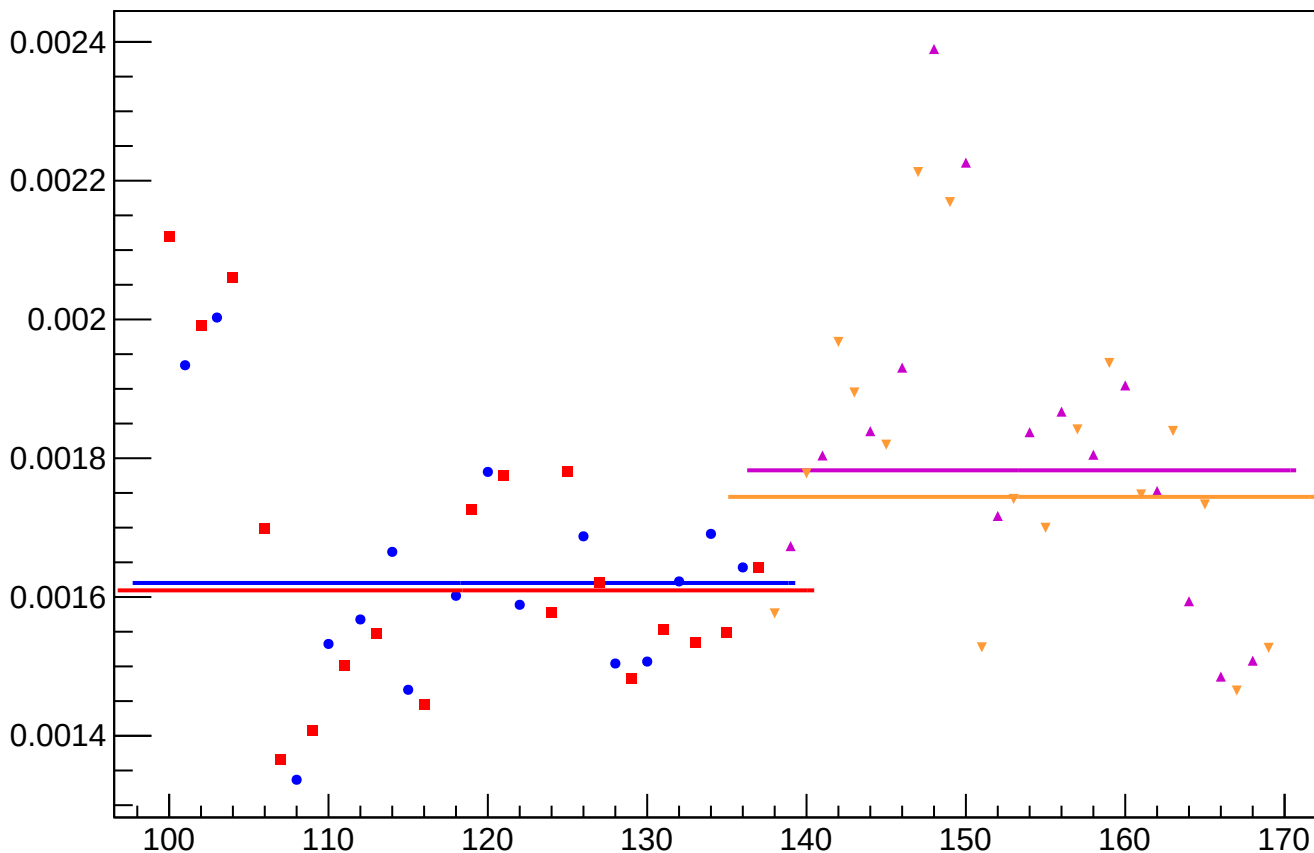
Left In: -3.655+/-0.000

χ^2/NDF : 33532766941.8/14

All: -3.936+/-0.000

χ^2/NDF : 2384316108550

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 140216.3/15

Left Out: 0.002+/-0.000 χ^2/NDF :323487.8/16

Right Out: 0.002+/-0.000 χ^2/NDF : 184968.0/18

Left In: 0.002+/-0.000 χ^2/NDF :324749.3/14

Left: 0.002+/-0.000 χ^2/NDF : 654019.8/31

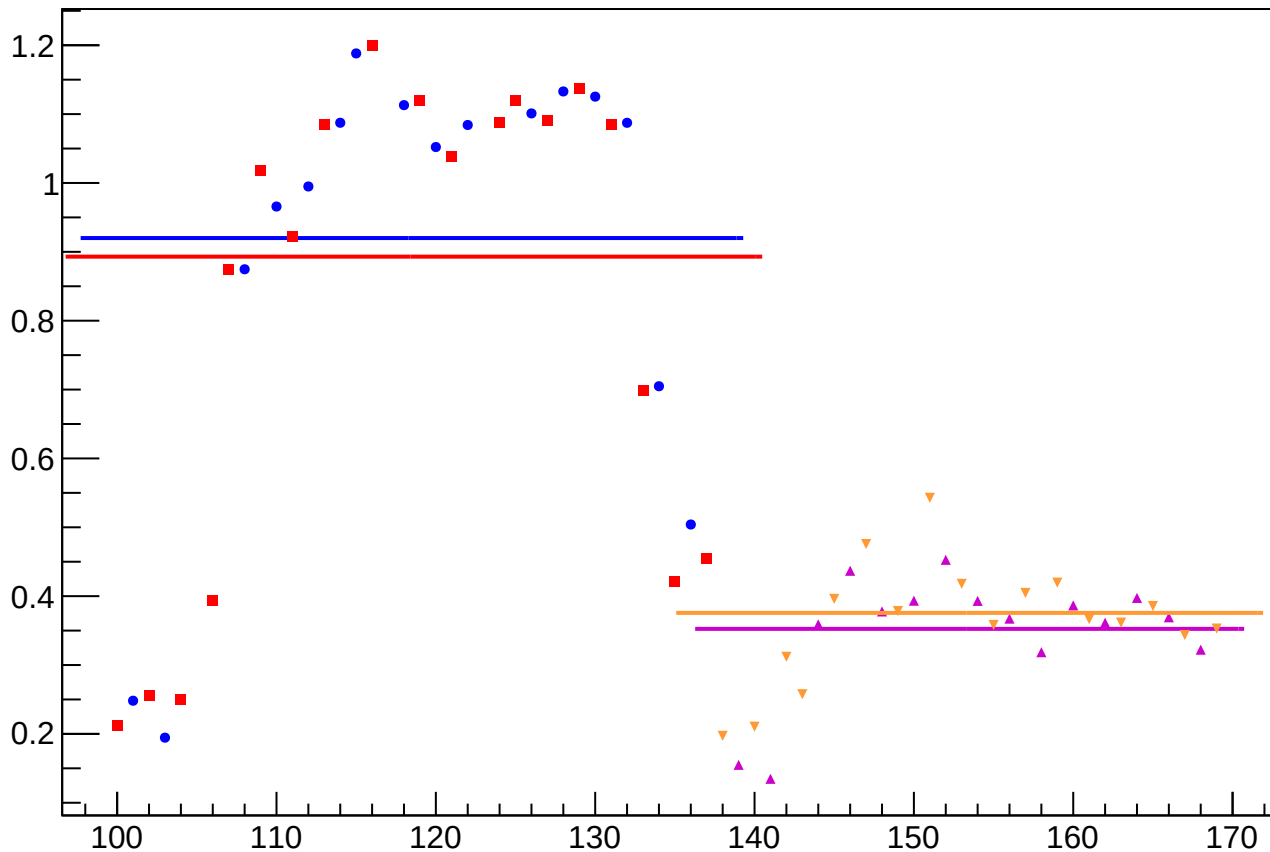
Right: 0.002+/-0.000 χ^2/NDF : 325489.2/34

In: 0.002+/-0.000 χ^2/NDF :546000.5/30

Out: 0.002+/-0.000 χ^2/NDF :568812.3/35

All: 0.002+/-0.000 χ^2/NDF : 1118784.9/66

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.920 $\pm$ 0.000 χ^2 /NDF: 14566431727.4/15

Left Out: 0.376 $\pm$ 0.000 χ^2 /NDF: 1710321196.5/16

Right Out: 0.893 $\pm$ 0.000 χ^2 /NDF: 17642154019.1/18

Left In: 0.353 $\pm$ 0.000 χ^2 /NDF: 1439037228.3/14

Left: 0.365 $\pm$ 0.000 χ^2 /NDF: 3212646900.2/31

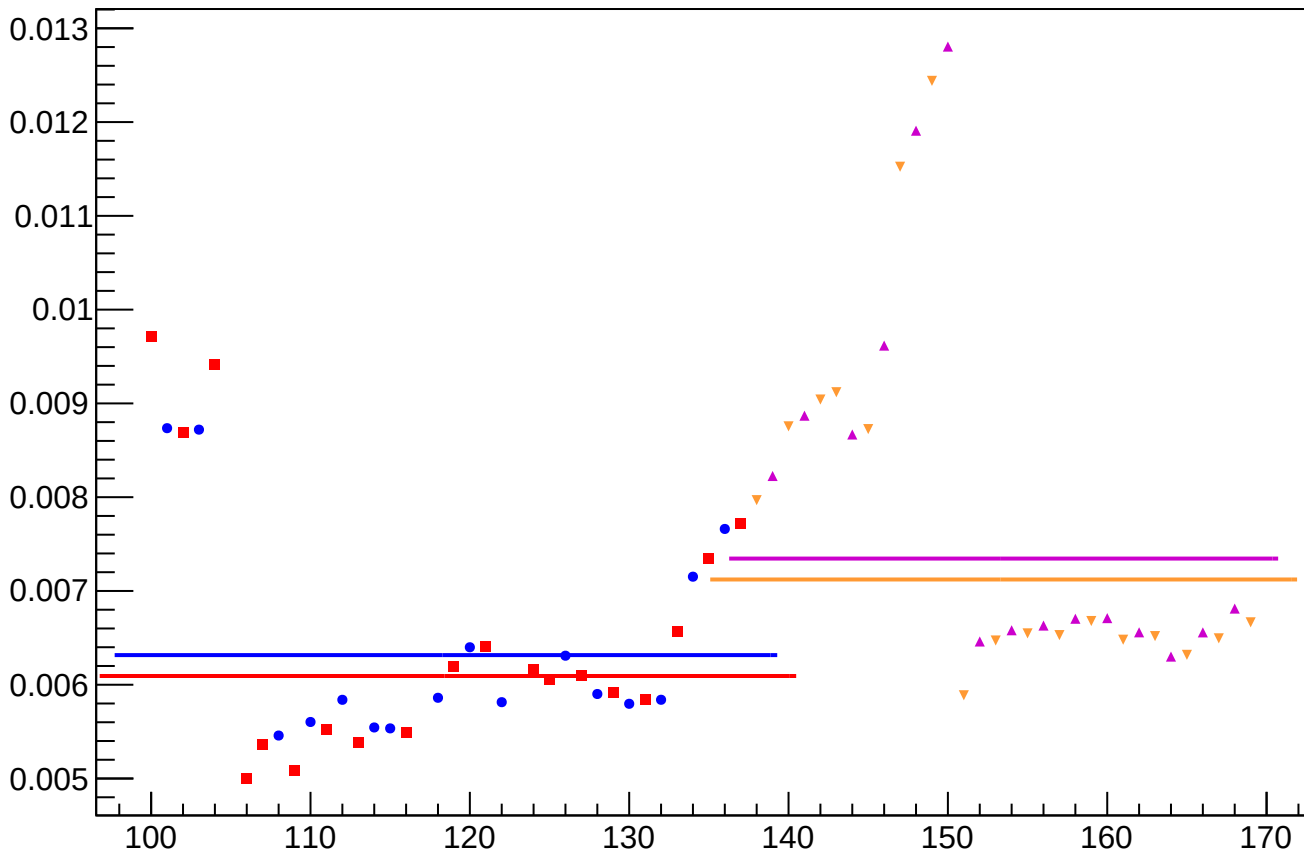
Right: 0.906 $\pm$ 0.000 χ^2 /NDF: 32276058175.7/34

In: 0.605 $\pm$ 0.000 χ^2 /NDF: 47437523327.7/30

Out: 0.601 $\pm$ 0.000 χ^2 /NDF: 48851311303.0/35

All: 0.603 $\pm$ 0.000 χ^2 /NDF: 96291788273.7/69

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 335709.2/15

Left Out: 0.007+/-0.000 χ^2/NDF :986350.1/16

Right Out: 0.006+/-0.000 χ^2/NDF : 435933.6/18

Left In: 0.007+/-0.000 χ^2/NDF :969436.7/14

Left: 0.007+/-0.000 χ^2/NDF : 1967473.5/31

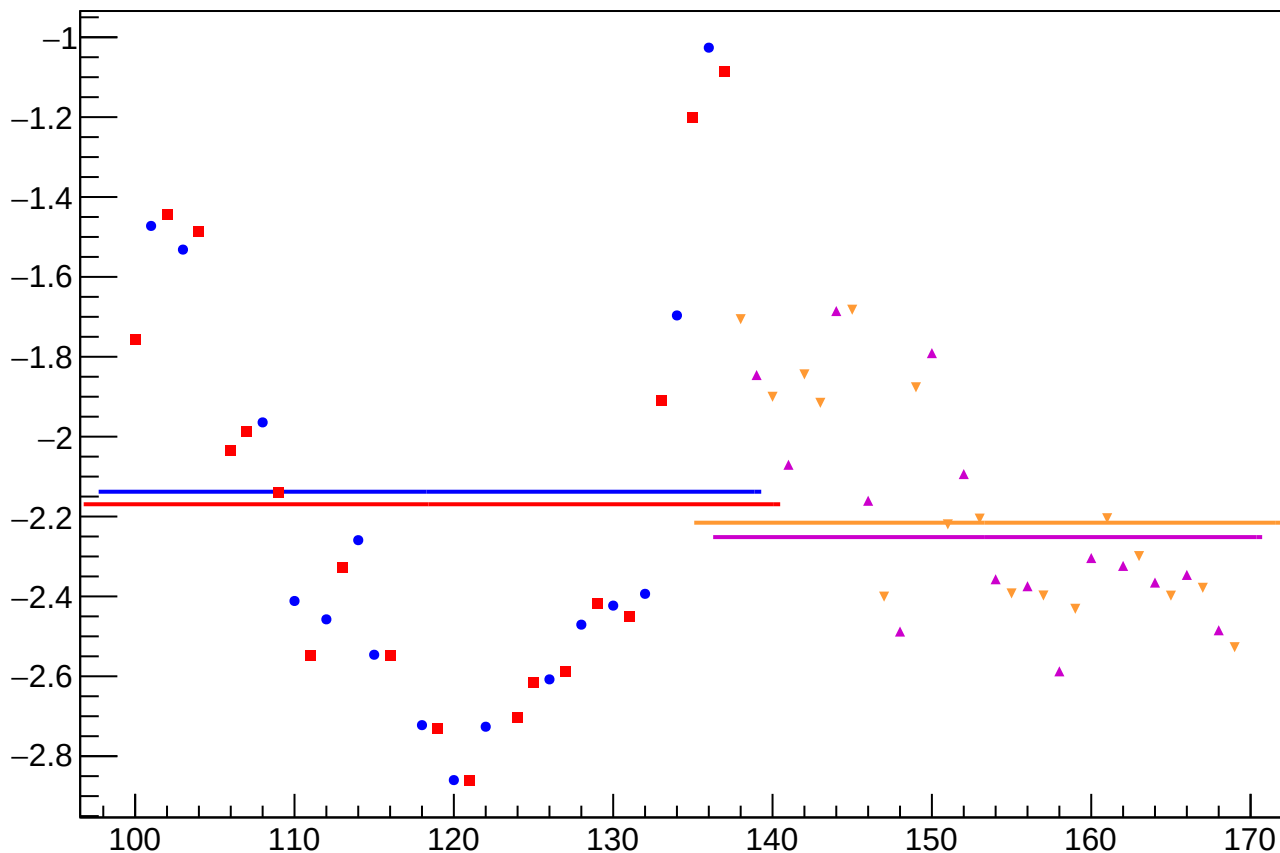
Right: 0.006+/-0.000 χ^2/NDF : 780835.2/34

In: 0.007+/-0.000 χ^2/NDF :1511944.6/30

Out: 0.007+/-0.000 χ^2/NDF :1655806.2/35

All: 0.007+/-0.000 χ^2/NDF : 3186943.2/66

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.138+/-0.000 χ^2/NDF : 65666622158.4/15

Left Out: -2.215+/-0.000 χ^2/NDF : 19036871391.7/16

Right Out: -2.169+/-0.000 χ^2/NDF : 57409196879.6/18

Left In: -2.251+/-0.000 χ^2/NDF : 16286338063.7/14

Left: -2.233+/-0.000 χ^2/NDF : 35515086921.0/31

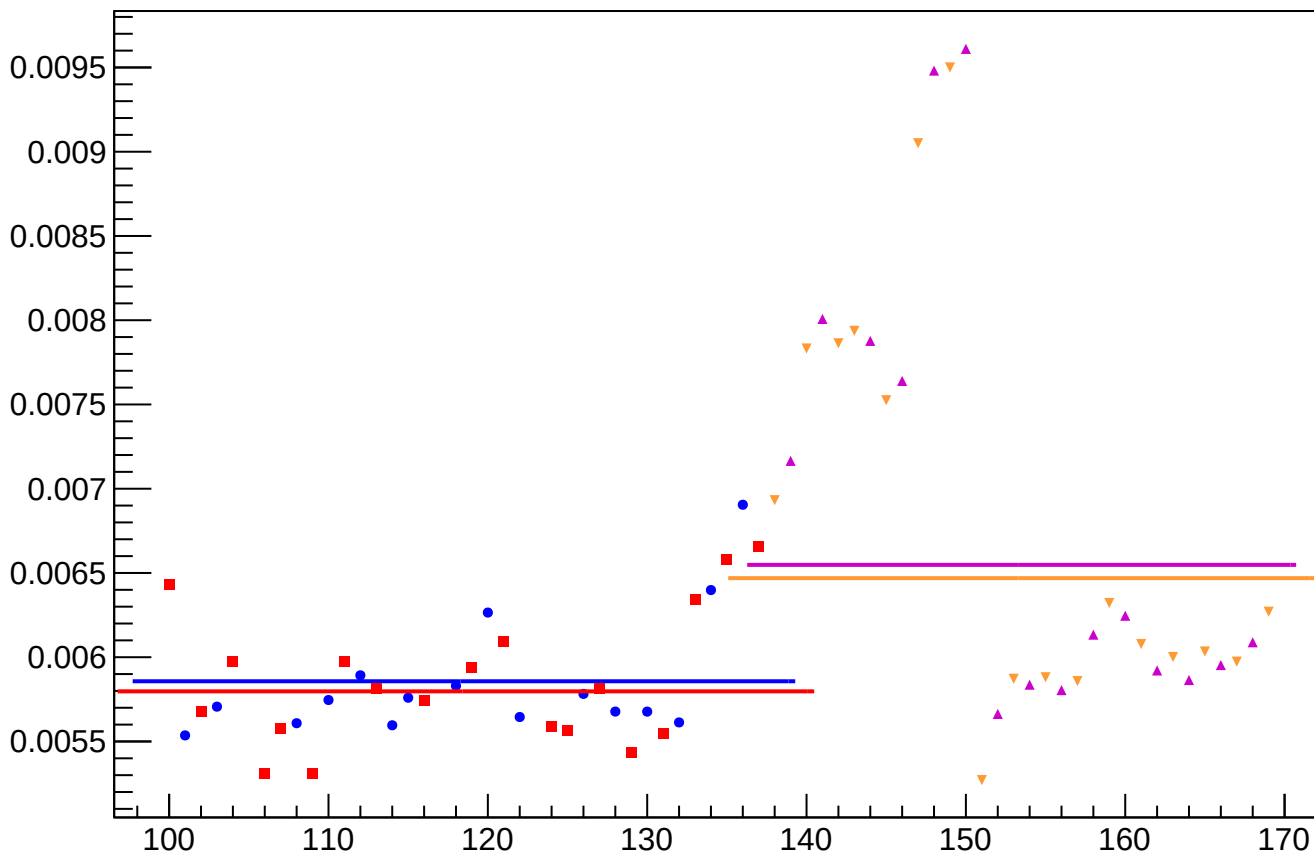
Right: -2.154+/-0.000 χ^2/NDF : 123181980201.2/34

In: -2.203+/-0.000 χ^2/NDF : 83501663147.4/30

Out: -2.196+/-0.000 χ^2/NDF : 76722354272.5/35

All: -2.199+/-0.000 χ^2/NDF : 160235412278.9

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 61946.9/15

Left Out: 0.006+/-0.000 χ^2/NDF : 651568.1/16

Right Out: 0.006+/-0.000 χ^2/NDF : 56374.2/18

Left In: 0.007+/-0.000 χ^2/NDF : 662469.6/14

Left: 0.007+/-0.000 χ^2/NDF : 1315873.0/31

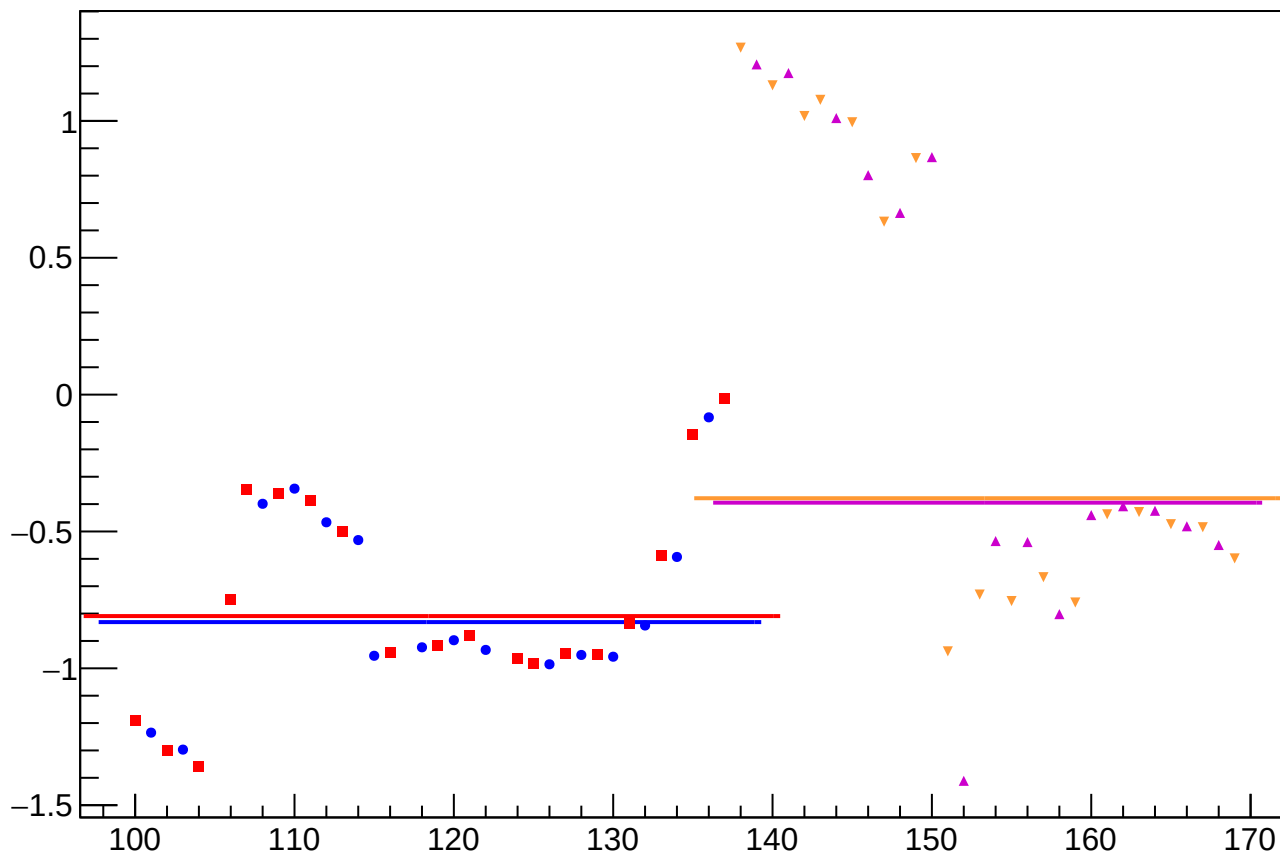
Right: 0.006+/-0.000 χ^2/NDF : 119093.4/34

In: 0.006+/-0.000 χ^2/NDF : 838924.0/30

Out: 0.006+/-0.000 χ^2/NDF : 824902.7/35

All: 0.006+/-0.000 χ^2/NDF : 1665847.0/66

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.831+/-0.000

χ^2/NDF : 7112259663.3/15

Left: -0.386+/-0.000

χ^2/NDF : 166377905042.9/31

Left Out: -0.379+/-0.000

χ^2/NDF : 78618909395.6/16

Right: -0.820+/-0.000

χ^2/NDF : 15273298764.6/34

Right Out: -0.809+/-0.000

χ^2/NDF : 8146337898.7/18

In: -0.498+/-0.000

χ^2/NDF : 103501017677.9/30

Out: -0.475+/-0.000

χ^2/NDF : 95684296287.9/35

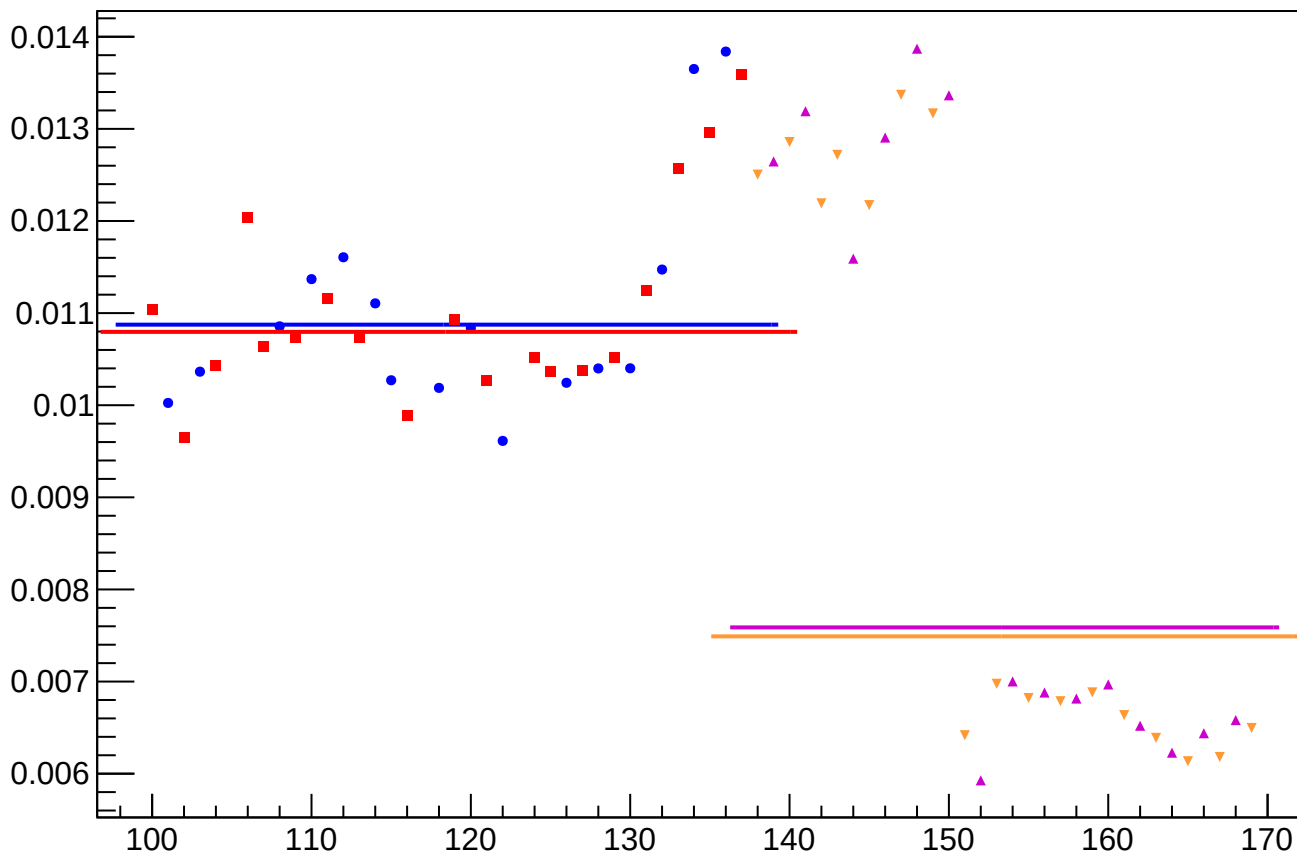
Left In: -0.395+/-0.000

χ^2/NDF : 87732325238.3/14

All: -0.486+/-0.000

χ^2/NDF : 199252987738.6

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 157612.7/15

Left Out: 0.007+/-0.000 χ^2/NDF : 2123046.4/16

Right Out: 0.011+/-0.000 χ^2/NDF : 99122.1/18

Left In: 0.008+/-0.000 χ^2/NDF : 2117453.7/14

Left: 0.008+/-0.000 χ^2/NDF : 4242425.4/31

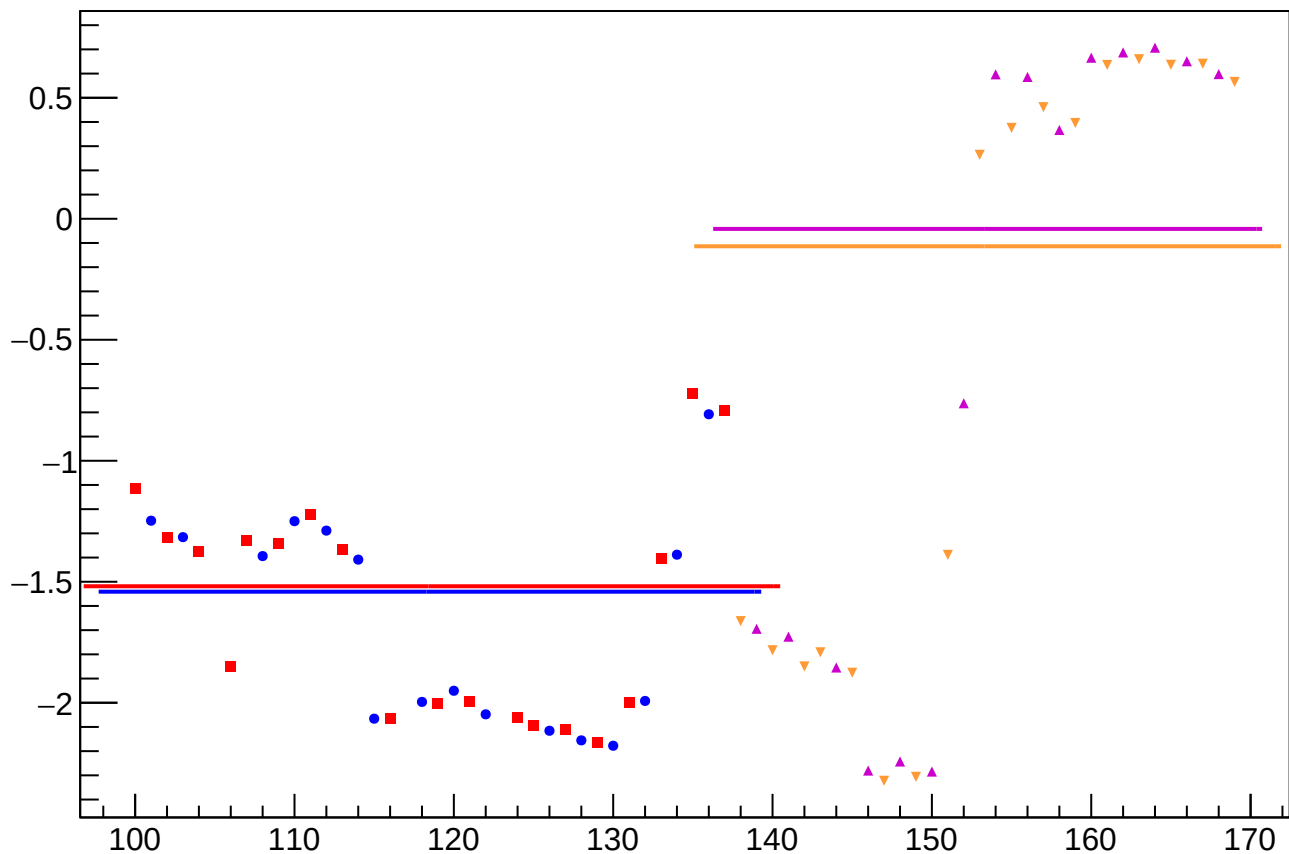
Right: 0.011+/-0.000 χ^2/NDF : 257107.2/34

In: 0.008+/-0.000 χ^2/NDF : 3257234.2/30

Out: 0.008+/-0.000 χ^2/NDF : 3273657.9/35

All: 0.008+/-0.000 χ^2/NDF : 6535477.7/66

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.541+/-0.000

χ^2/NDF : 162409397922.2/15

Left: -0.080+/-0.000

χ^2/NDF : 3917503964048.6/31

Left Out: -0.114+/-0.000

χ^2/NDF : 2057131457925.7/16

Right: -1.529+/-0.000

χ^2/NDF : 307732116783.0/34

Right Out: -1.519+/-0.000

χ^2/NDF : 145077318641.2/18

In: -0.588+/-0.000

χ^2/NDF : 3344908482765.5/30

Out: -0.617+/-0.000

χ^2/NDF : 3490090401819.5/35

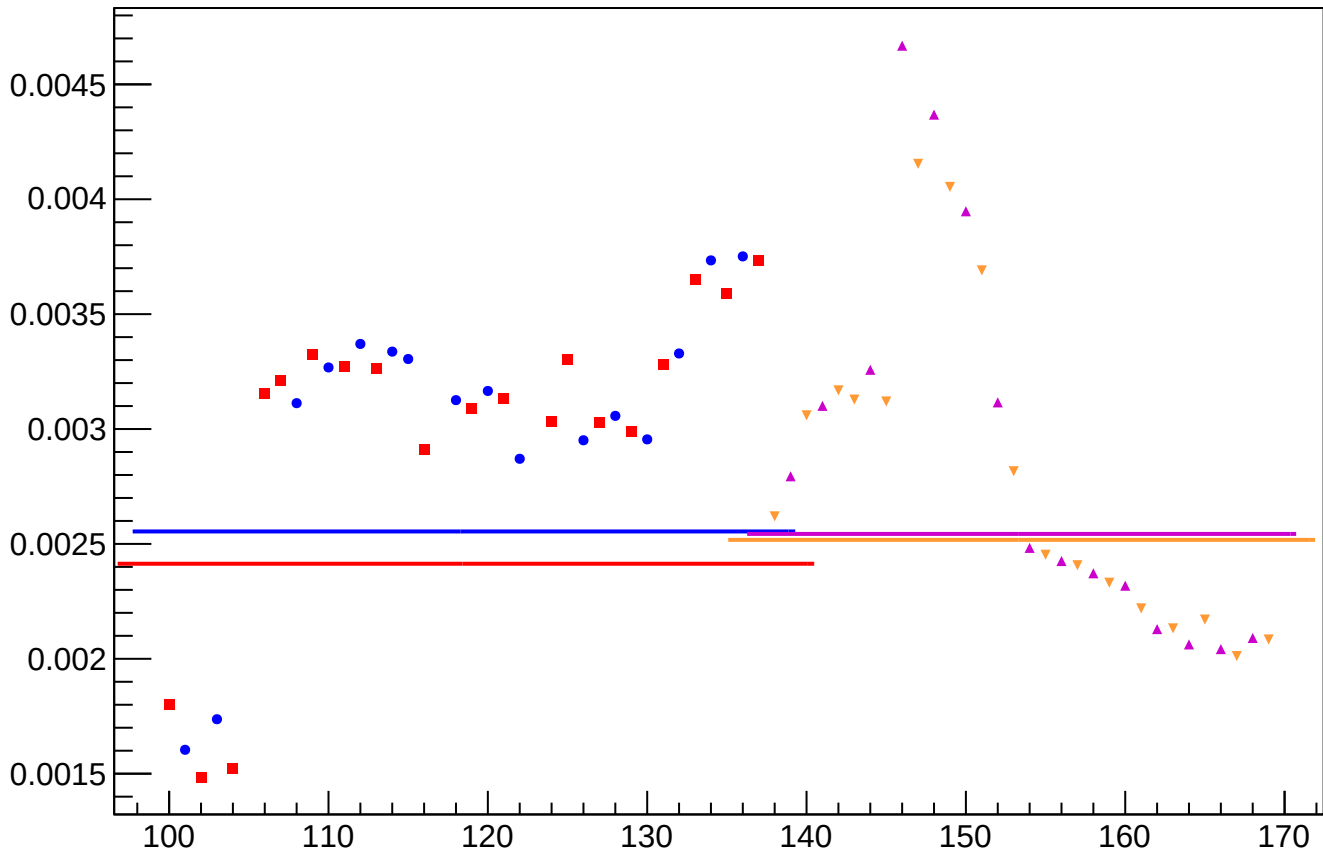
Left In: -0.042+/-0.000

χ^2/NDF : 1855958272816.4/14

All: -0.604+/-0.000

χ^2/NDF : 6836133099029

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1172434.9/15

Left Out: 0.003+/-0.000 χ^2/NDF :1005209.6/16

Right Out: 0.002+/-0.000 χ^2/NDF : 1546830.8/18

Left In: 0.003+/-0.000 χ^2/NDF :1129768.6/14

Left: 0.003+/-0.000 χ^2/NDF : 2136133.3/31

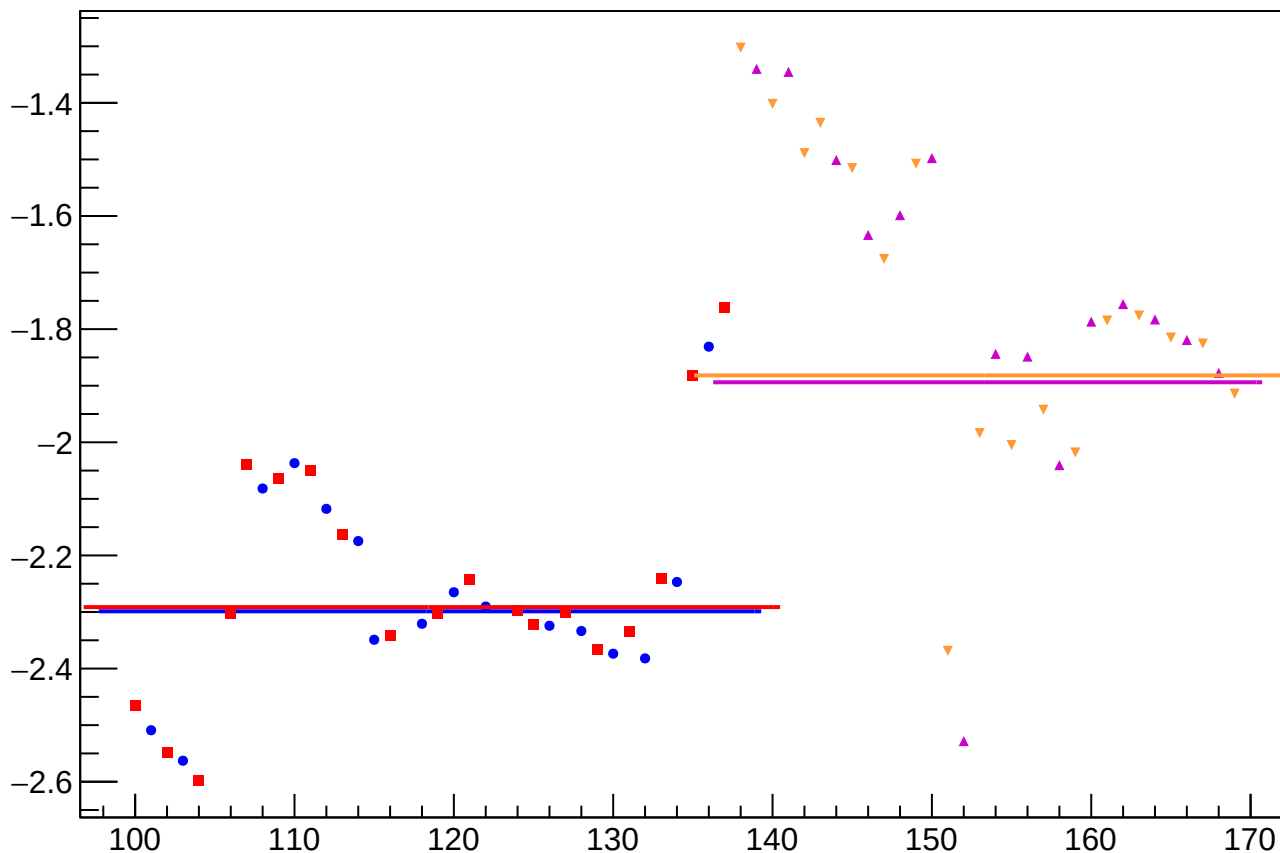
Right: 0.002+/-0.000 χ^2/NDF : 2738423.5/34

In: 0.003+/-0.000 χ^2/NDF :2302337.9/30

Out: 0.002+/-0.000 χ^2/NDF :2566112.7/35

All: 0.003+/-0.000 χ^2/NDF : 4880530.4/66

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.299+/-0.000 χ^2/NDF : 6129071089.8/15

Left Out: -1.882+/-0.000 χ^2/NDF : 27261455479.9/16

Right Out: -2.291+/-0.000 χ^2/NDF : 6831007568.9/18

Left In: -1.894+/-0.000 χ^2/NDF : 43300942071.1/14

Left: -1.888+/-0.000 χ^2/NDF : 70602742660.1/31

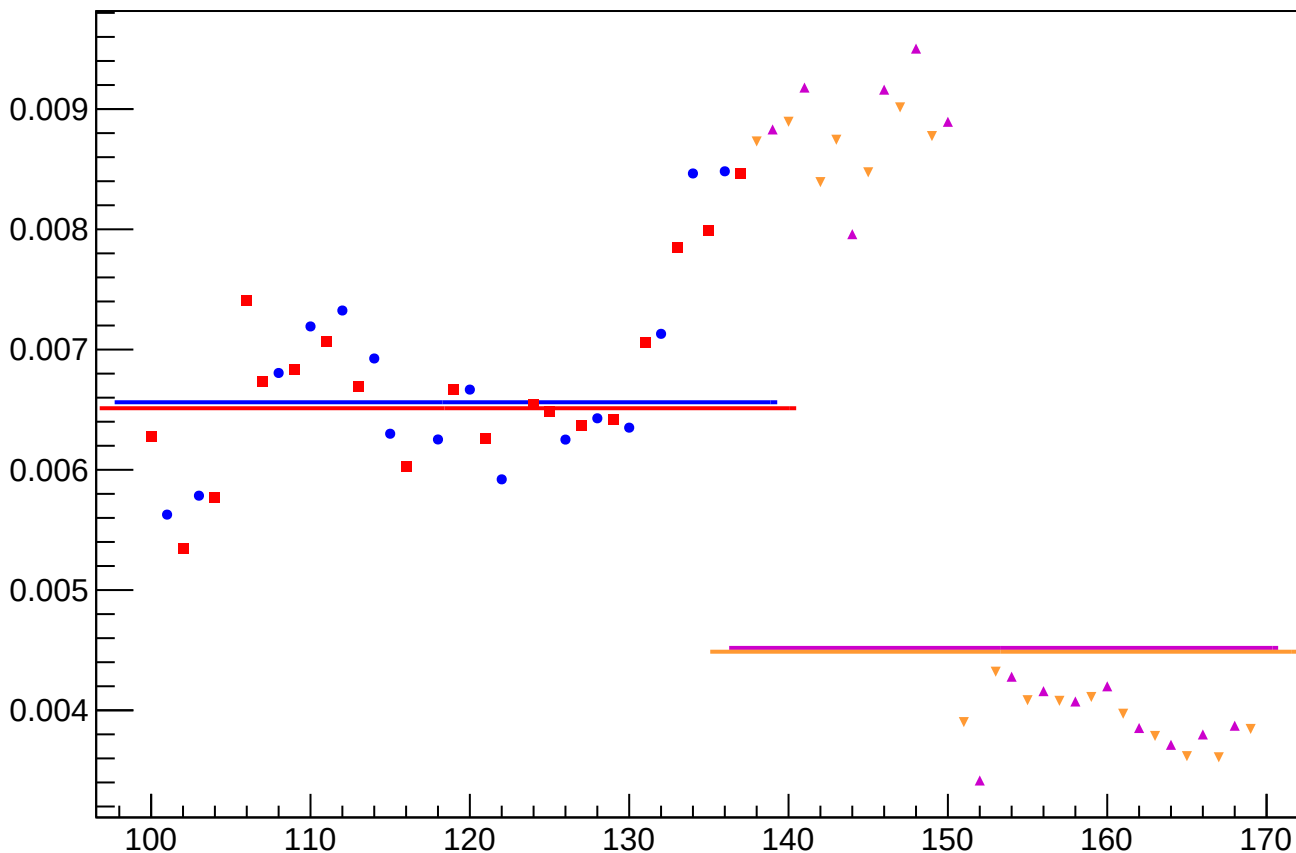
Right: -2.295+/-0.000 χ^2/NDF : 12964639512.9/34

In: -1.990+/-0.000 χ^2/NDF : 69514830809.5/30

Out: -1.975+/-0.000 χ^2/NDF : 55816924874.0/35

All: -1.982+/-0.000 χ^2/NDF : 125417862490.5

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 221890.3/15

Left Out: 0.004+/-0.000 χ^2/NDF : 2803711.6/16

Right Out: 0.007+/-0.000 χ^2/NDF : 184961.7/18

Left In: 0.005+/-0.000 χ^2/NDF : 2834648.7/14

Left: 0.005+/-0.000 χ^2/NDF : 5638900.2/31

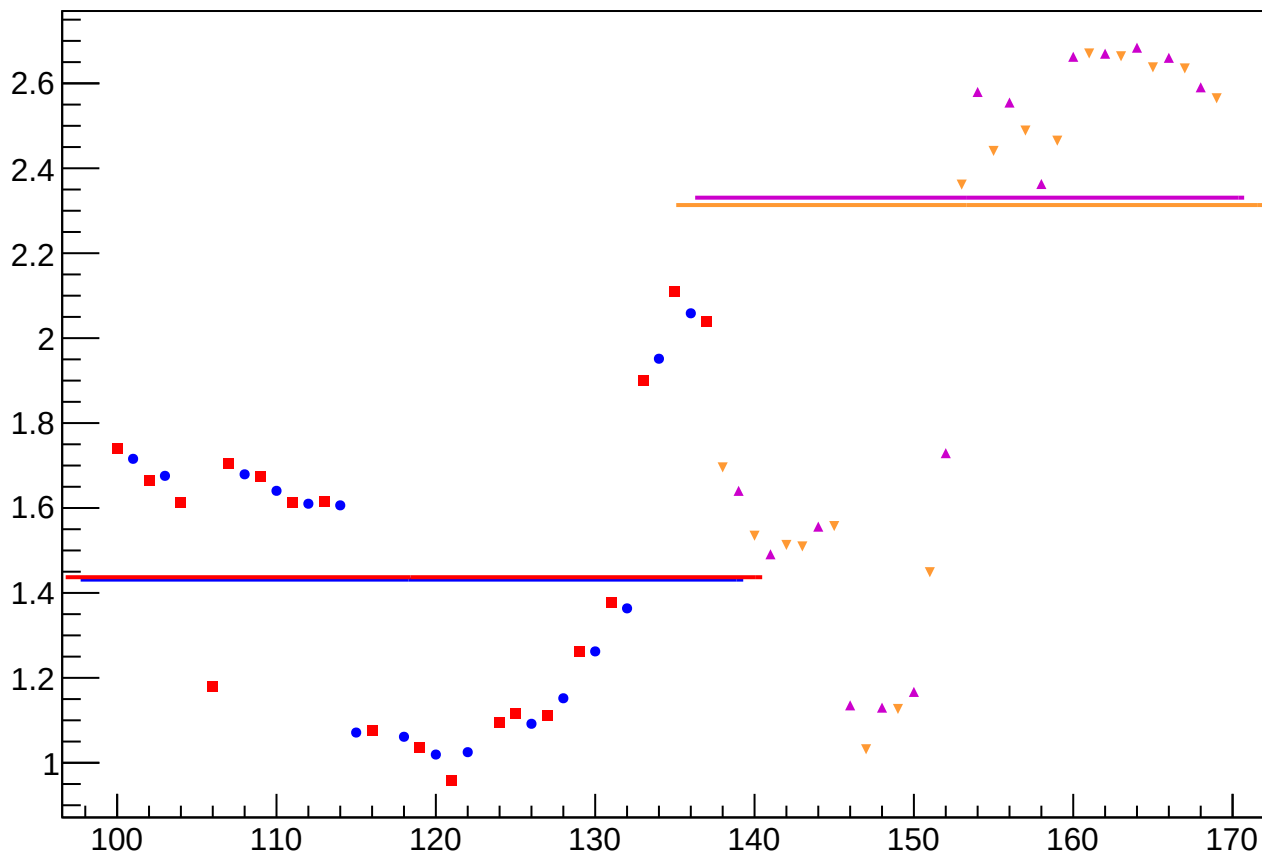
Right: 0.007+/-0.000 χ^2/NDF : 407258.0/34

In: 0.005+/-0.000 χ^2/NDF : 4079378.6/30

Out: 0.005+/-0.000 χ^2/NDF : 4050376.7/35

All: 0.005+/-0.000 χ^2/NDF : 8132158.9/66

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.431+/-0.000 χ^2/NDF : 189180734956.1/15

Left Out: 2.313+/-0.000 χ^2/NDF : 211564570079.5/16

Right Out: 1.437+/-0.000 χ^2/NDF : 182019221175.5/18

Left In: 2.331+/-0.000 χ^2/NDF : 201983216981.5/14

Left: 2.322+/-0.000 χ^2/NDF : 413692633055.9/31

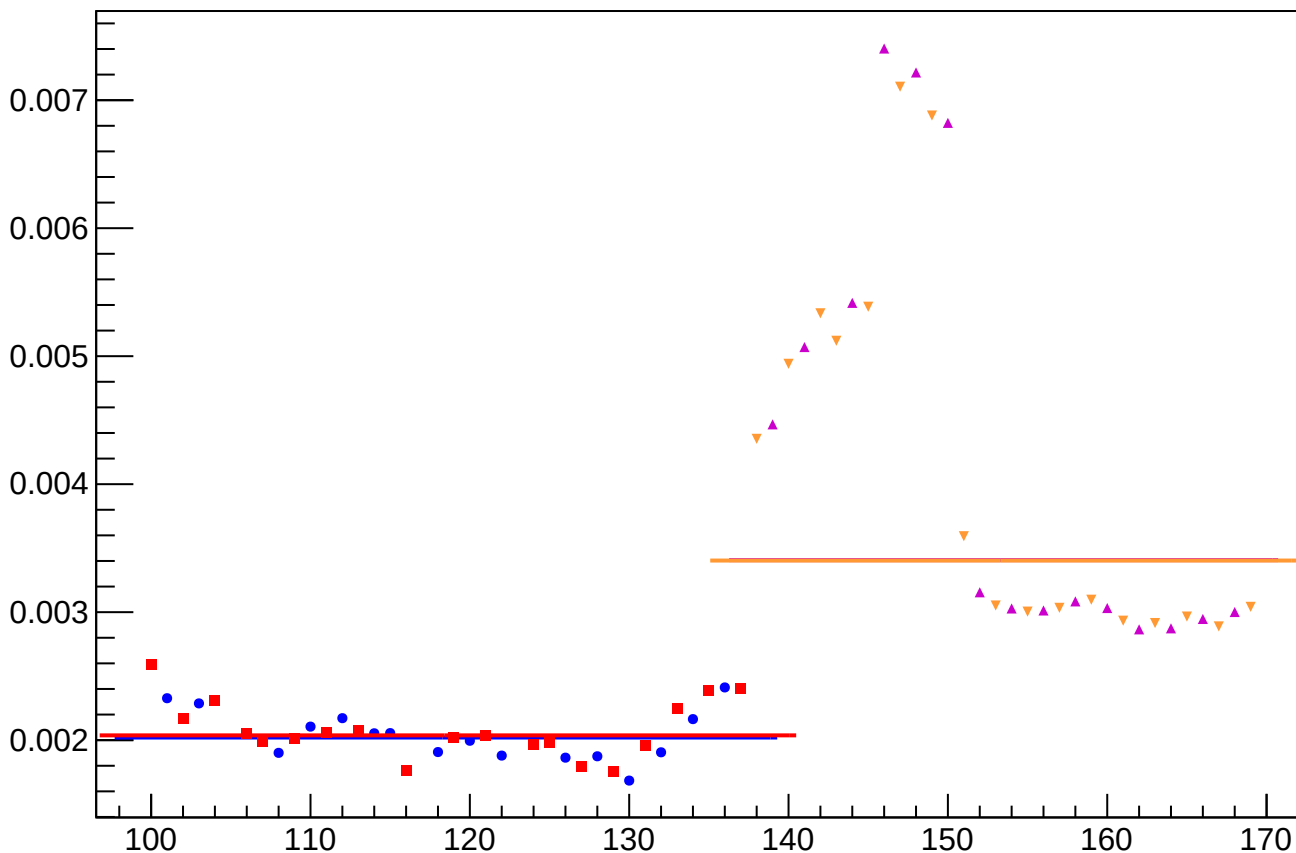
Right: 1.434+/-0.000 χ^2/NDF : 371226177704.8/34

In: 1.755+/-0.000 χ^2/NDF : 864035672541.7/30

Out: 1.772+/-0.000 χ^2/NDF : 872379897300.8/35

All: 1.763+/-0.000 χ^2/NDF : 1736798112229.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 154923.3/15

Left Out: 0.003+/-0.000 χ^2/NDF :1681346.1/16

Right Out: 0.002+/-0.000 χ^2/NDF : 113640.4/18

Left In: 0.003+/-0.000 χ^2/NDF :1906394.3/14

Left: 0.003+/-0.000 χ^2/NDF : 3587751.7/31

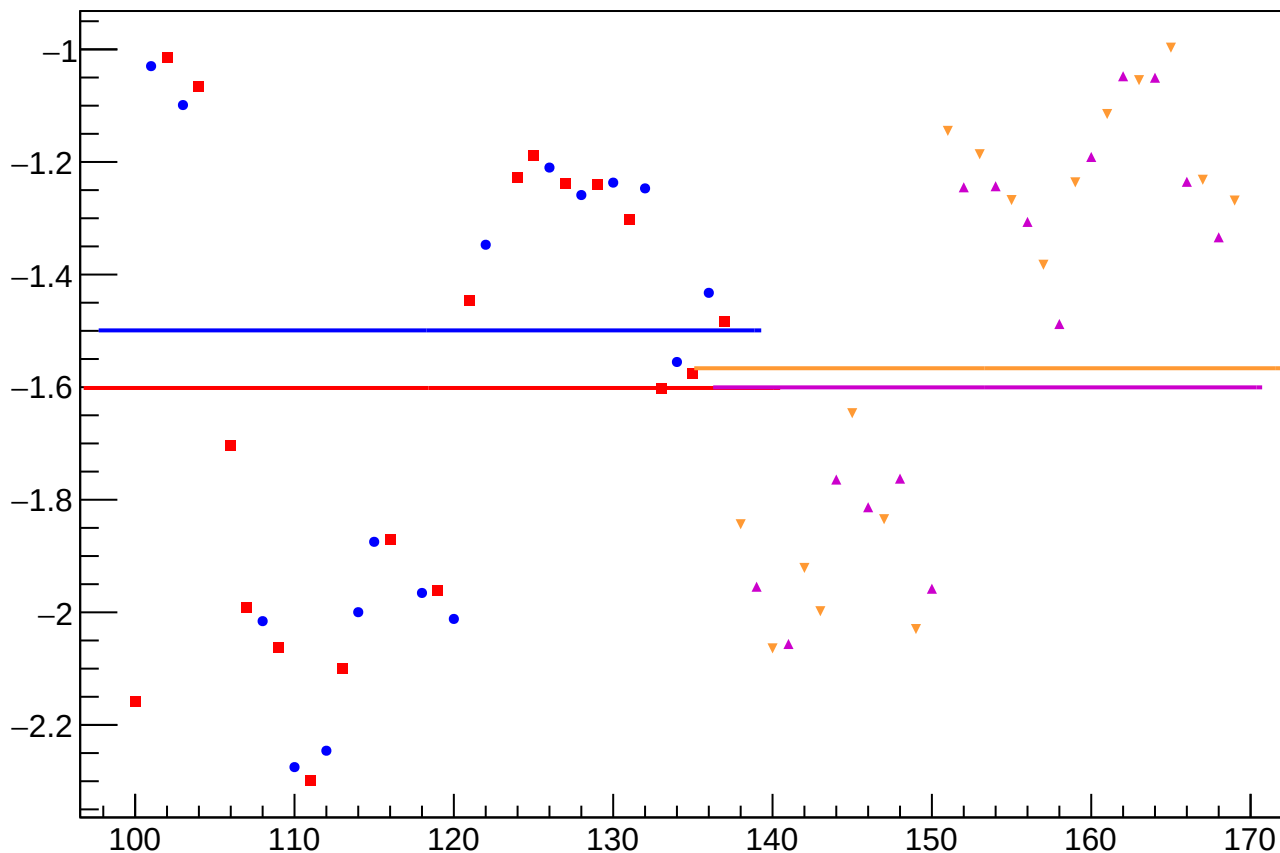
Right: 0.002+/-0.000 χ^2/NDF : 269026.9/34

In: 0.003+/-0.000 χ^2/NDF :4307548.3/30

Out: 0.003+/-0.000 χ^2/NDF :4120985.0/35

All: 0.003+/-0.000 χ^2/NDF : 8432766.3/66

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.499+/-0.000 χ^2/NDF : 22930357522.2/15

Left Out: -1.566+/-0.000 χ^2/NDF : 40259075279.2/16

Right Out: -1.601+/-0.000 χ^2/NDF : 28324914147.6/18

Left In: -1.600+/-0.000 χ^2/NDF : 28428869981.3/14

Left: -1.582+/-0.000 χ^2/NDF : 68837363228.8/31

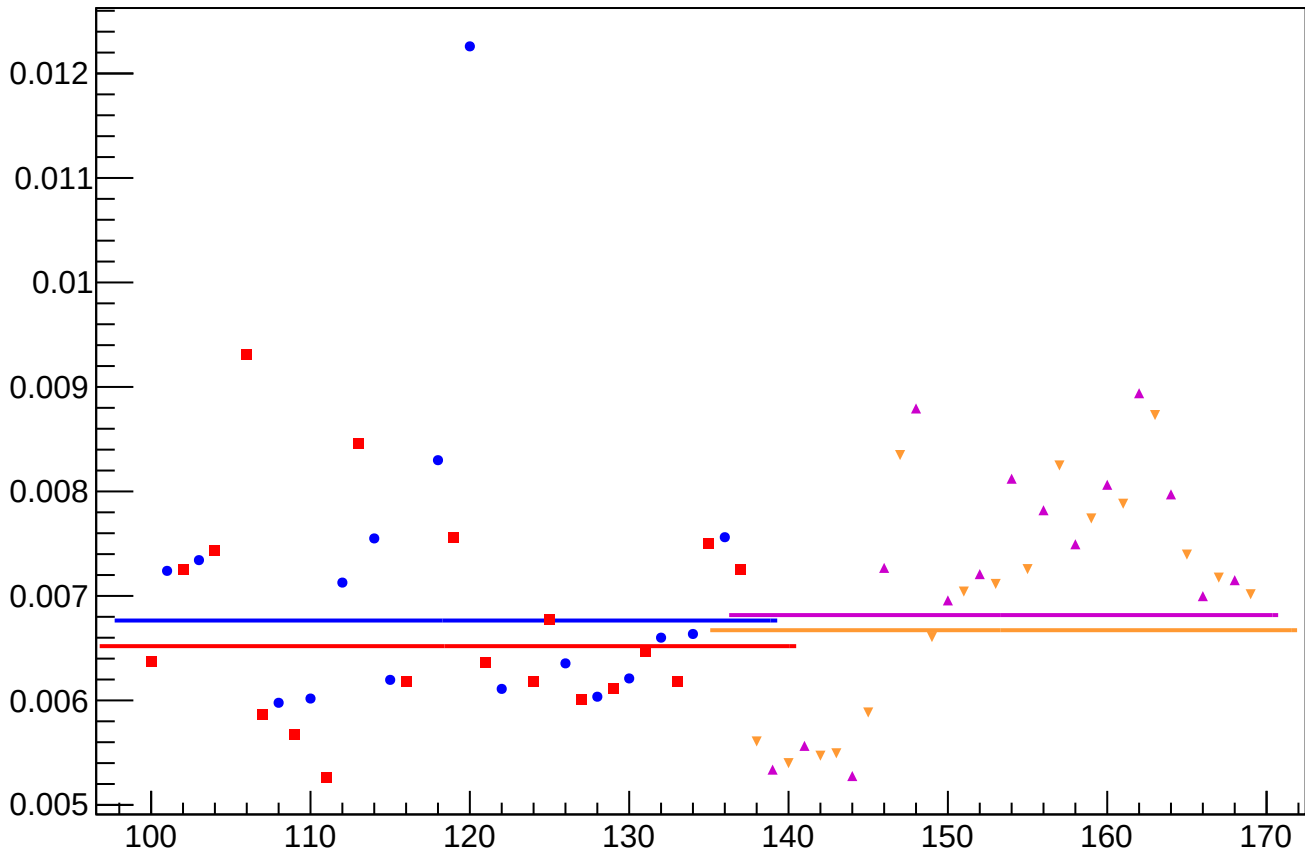
Right: -1.554+/-0.000 χ^2/NDF : 52047267484.5/34

In: -1.563+/-0.000 χ^2/NDF : 52275711866.8/30

Out: -1.579+/-0.000 χ^2/NDF : 68709917756.8/35

All: -1.572+/-0.000 χ^2/NDF : 121040170655.2

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 238566.1/15

Left Out: 0.007+/-0.000 χ^2/NDF : 598532.9/16

Right Out: 0.007+/-0.000 χ^2/NDF : 245428.1/18

Left In: 0.007+/-0.000 χ^2/NDF : 678412.3/14

Left: 0.007+/-0.000 χ^2/NDF : 1282366.9/31

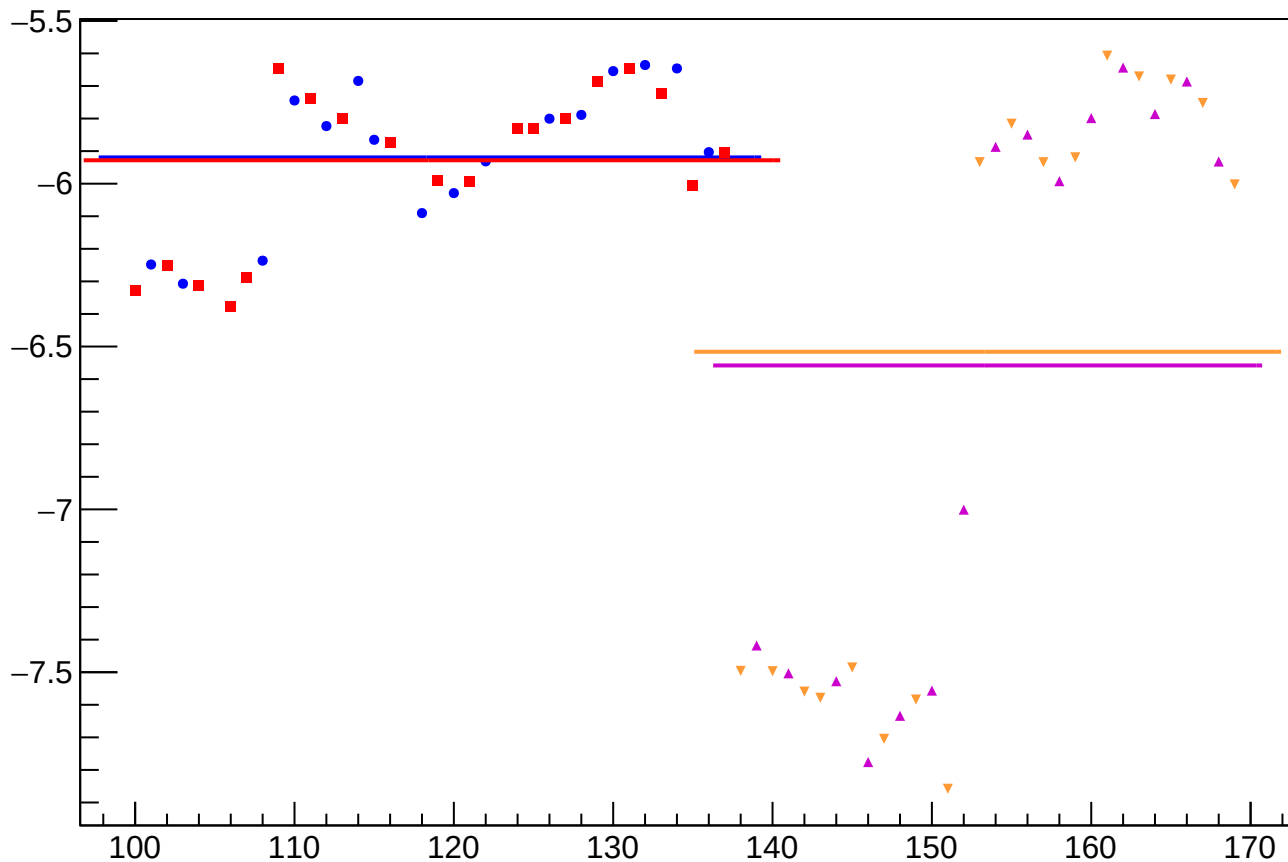
Right: 0.007+/-0.000 χ^2/NDF : 493094.9/34

In: 0.007+/-0.000 χ^2/NDF : 917462.7/30

Out: 0.007+/-0.000 χ^2/NDF : 848731.6/35

All: 0.007+/-0.000 χ^2/NDF : 1779744.5/66

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.919 ± 0.000 $\chi^2/\text{NDF}: 11742457053.3/15$

Left Out: -6.516 ± 0.000 $\chi^2/\text{NDF}: 97365386761.2/16$

Right Out: -5.928 ± 0.000 $\chi^2/\text{NDF}: 12641528579.2/18$

Left In: -6.558 ± 0.000 $\chi^2/\text{NDF}: 74690007685.9/14$

Left: -6.536 ± 0.000 $\chi^2/\text{NDF}: 172157779602.2/31$

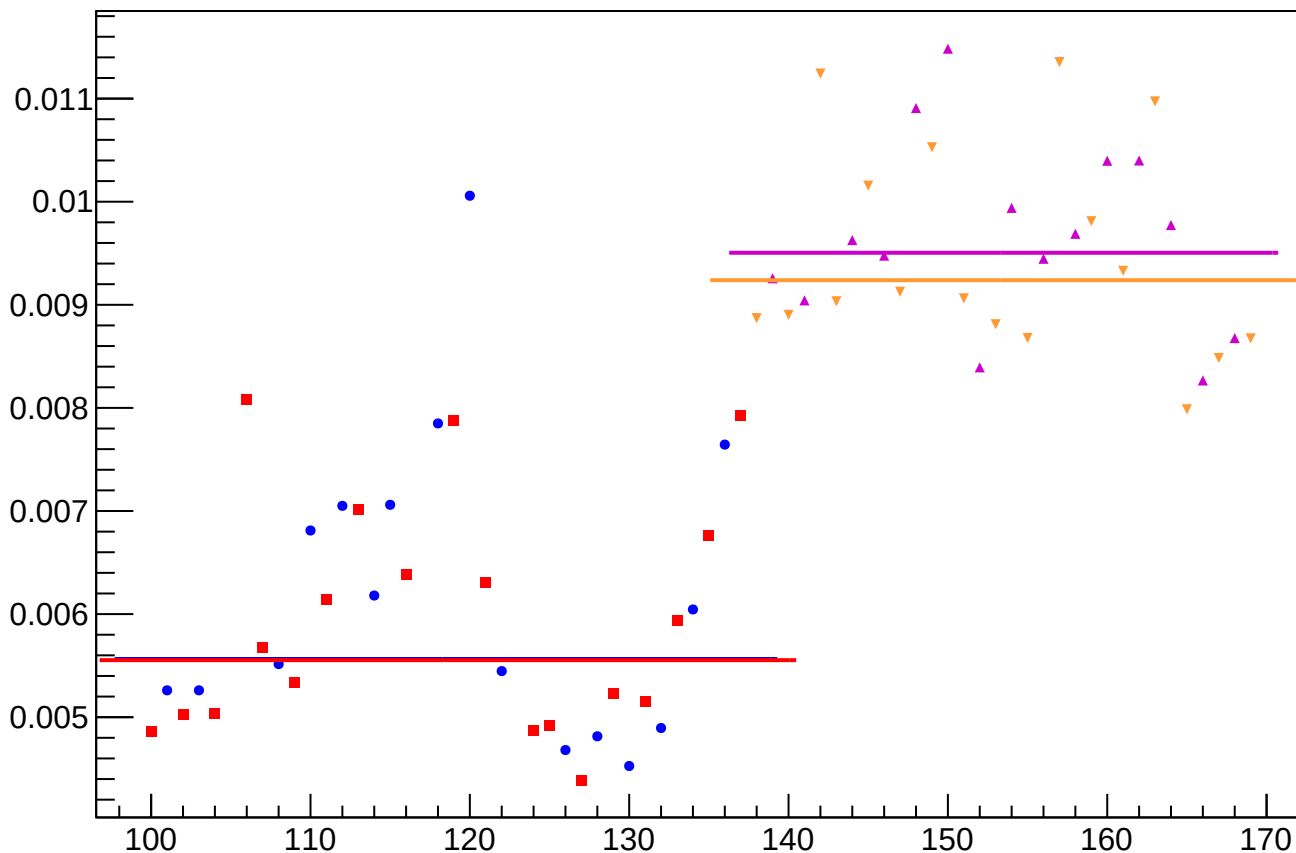
Right: -5.924 ± 0.000 $\chi^2/\text{NDF}: 24391751979.3/34$

In: -6.146 ± 0.000 $\chi^2/\text{NDF}: 115090610666.5/30$

Out: -6.147 ± 0.000 $\chi^2/\text{NDF}: 137066359867.8/35$

All: -6.146 ± 0.000 $\chi^2/\text{NDF}: 252157056776.9$

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 495546.3/15

Left Out: 0.009+/-0.000 χ^2/NDF :195571.7/16

Right Out: 0.006+/-0.000 χ^2/NDF : 364541.1/18

Left In: 0.010+/-0.000 χ^2/NDF :154964.4/14

Left: 0.009+/-0.000 χ^2/NDF : 358763.1/31

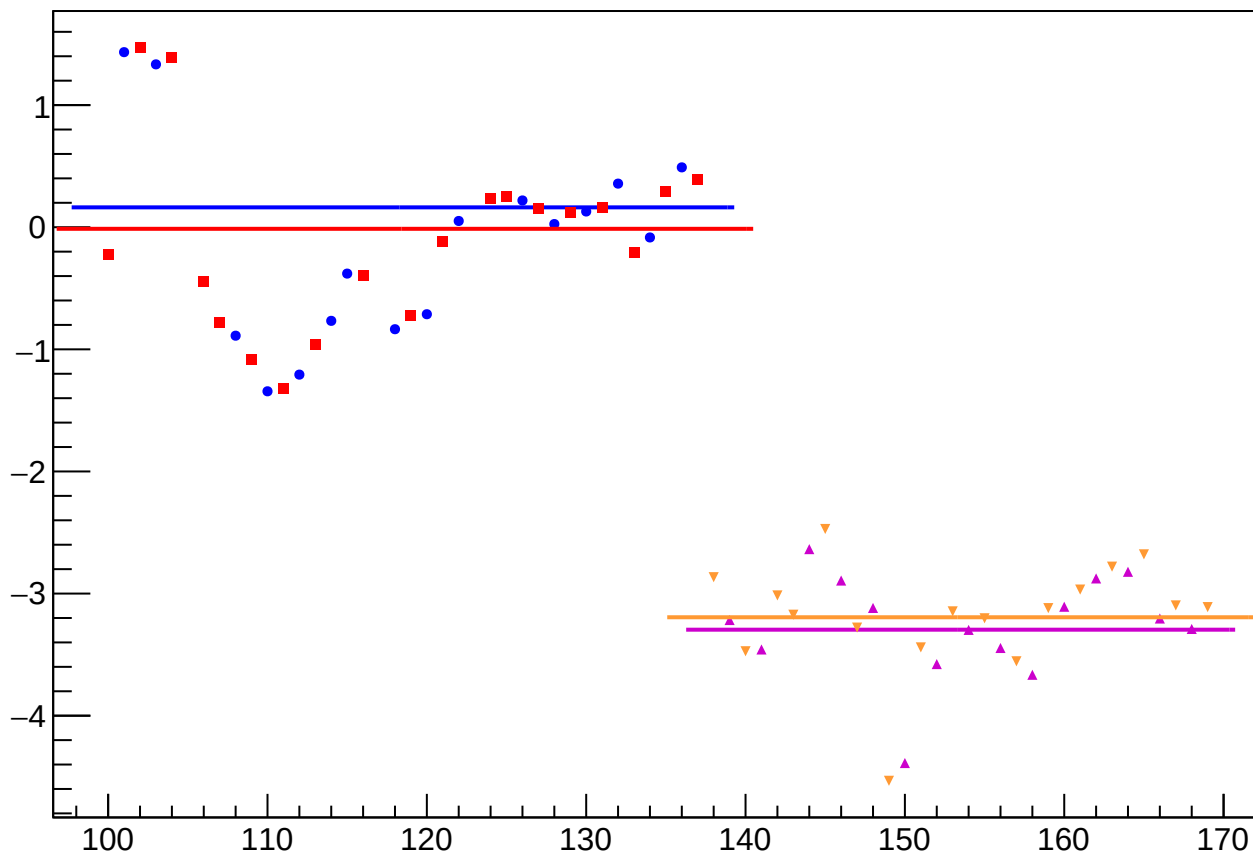
Right: 0.006+/-0.000 χ^2/NDF : 860112.8/34

In: 0.007+/-0.000 χ^2/NDF :2832197.7/30

Out: 0.007+/-0.000 χ^2/NDF :2686311.9/35

All: 0.007+/-0.000 χ^2/NDF : 5518995.1/66

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: 0.163+/-0.000 χ^2/NDF : 17940034444.3/15

Left Out: -3.194+/-0.000 χ^2/NDF : 8124701507.6/16

Right Out: -0.013+/-0.000 χ^2/NDF : 22484002798.8/18

Left In: -3.296+/-0.000 χ^2/NDF : 6281609091.4/14

Left: -3.242+/-0.000 χ^2/NDF : 14612004034.0/31

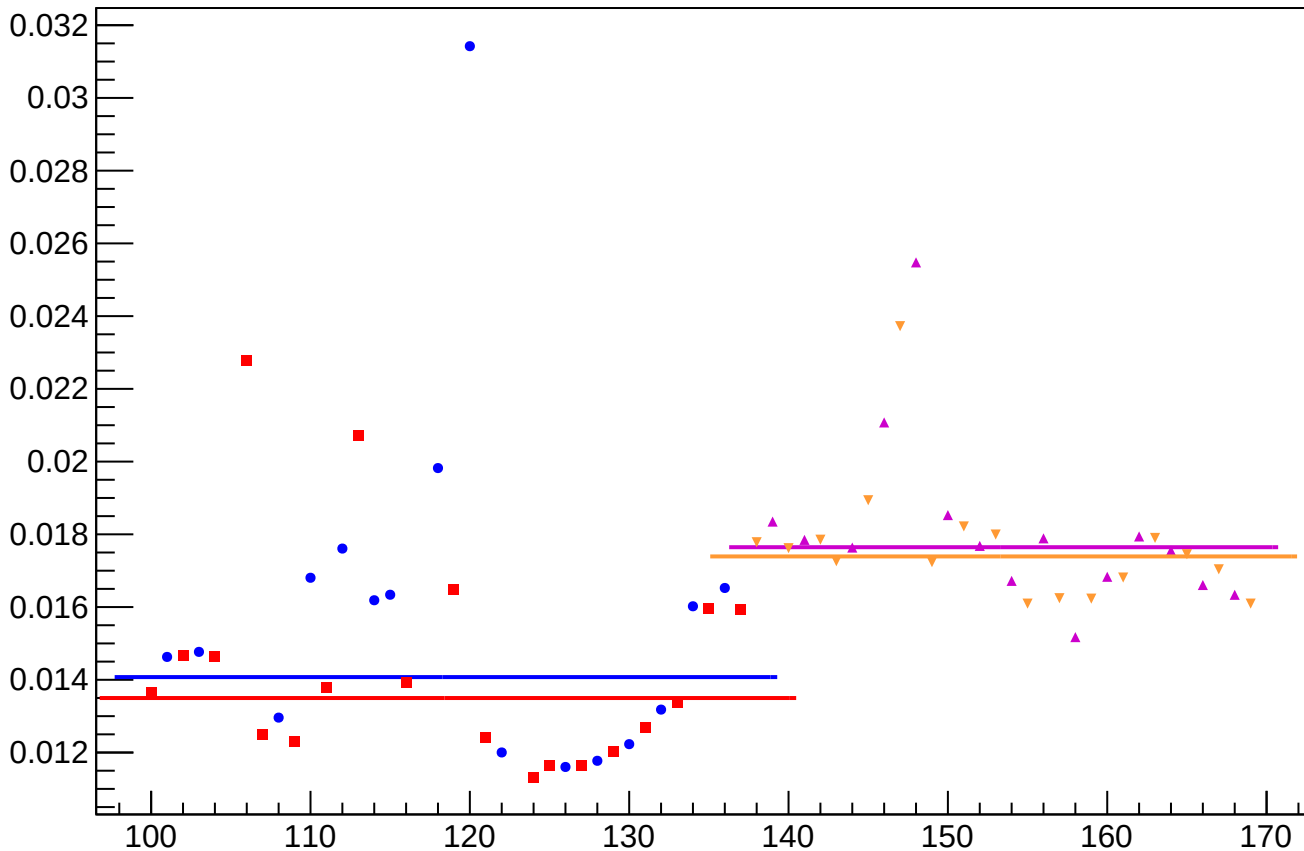
Right: 0.068+/-0.000 χ^2/NDF : 40953433371.5/34

In: -1.710+/-0.000 χ^2/NDF : 230380997459.2/30

Out: -1.703+/-0.000 χ^2/NDF : 230500471879.8/35

All: -1.706+/-0.000 χ^2/NDF : 460883180848.6

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 465421.6/15

Left Out: 0.017+/-0.000 χ^2/NDF :164740.3/16

Right Out: 0.013+/-0.000 χ^2/NDF : 314810.3/18

Left In: 0.018+/-0.000 χ^2/NDF :261194.9/14

Left: 0.018+/-0.000 χ^2/NDF : 428496.1/31

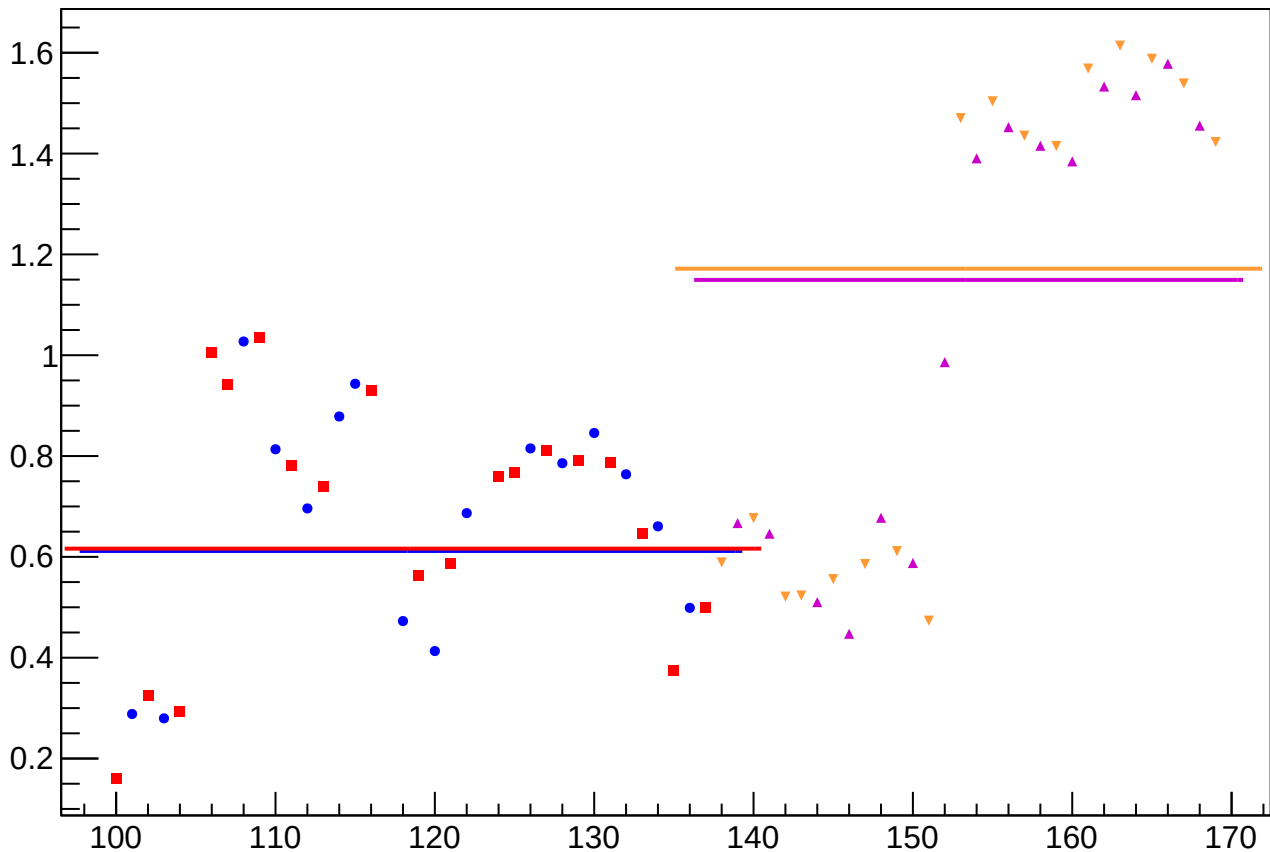
Right: 0.014+/-0.000 χ^2/NDF : 791602.0/34

In: 0.016+/-0.000 χ^2/NDF :1166380.5/30

Out: 0.016+/-0.000 χ^2/NDF :1078502.1/35

All: 0.016+/-0.000 χ^2/NDF : 2259281.3/66

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.612 $\pm$ 0.000 χ^2 /NDF: 5639014502.0/15

Left Out: 1.172 $\pm$ 0.000 χ^2 /NDF: 40632129344.0/16

Right Out: 0.616 $\pm$ 0.000 χ^2 /NDF: 6419512040.7/18

Left In: 1.149 $\pm$ 0.000 χ^2 /NDF: 30950918841.0/14

Left: 1.161 $\pm$ 0.000 χ^2 /NDF: 71632153118.1/31

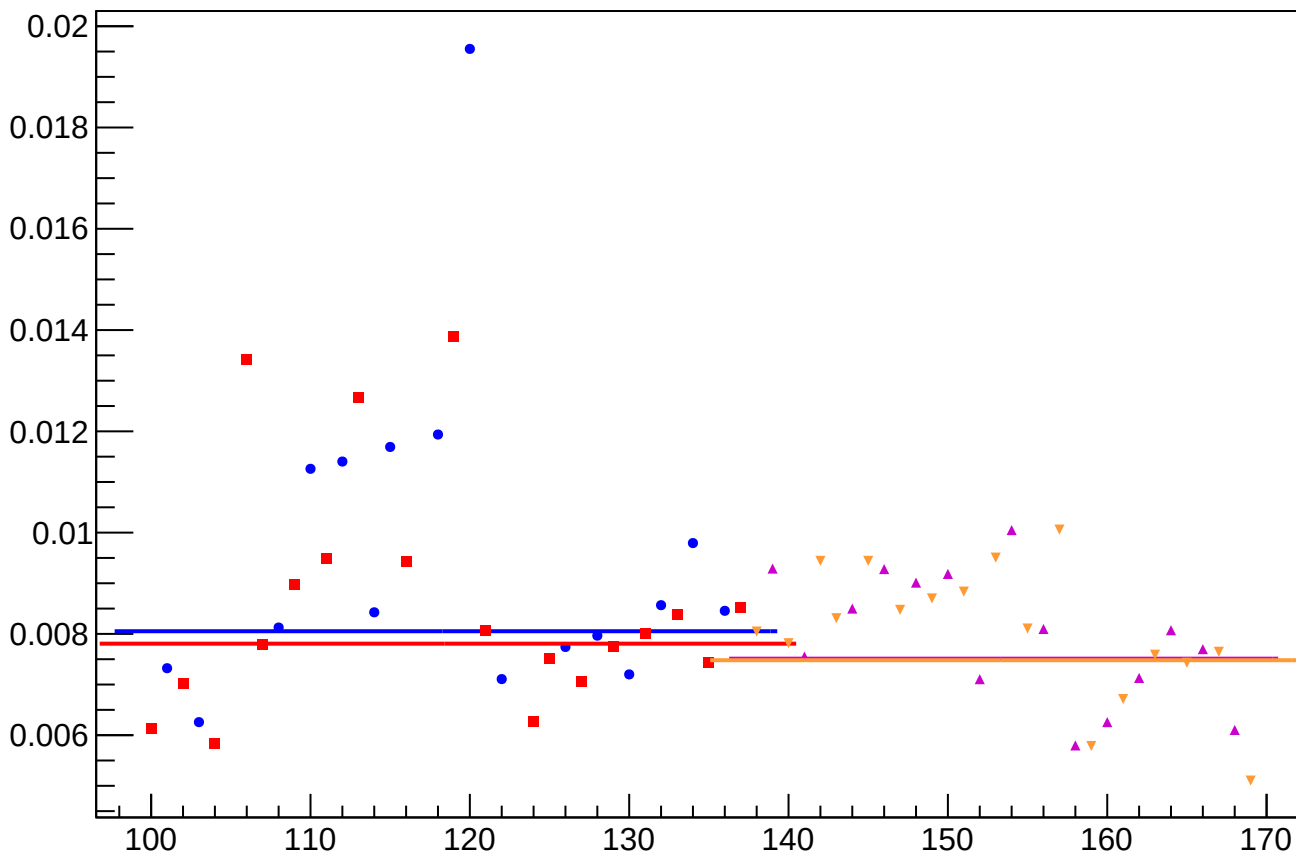
Right: 0.614 $\pm$ 0.000 χ^2 /NDF: 12059563453.6/34

In: 0.972 $\pm$ 0.000 χ^2 /NDF: 54910514434.6/30

Out: 0.984 $\pm$ 0.000 χ^2 /NDF: 68543083112.7/35

All: 0.979 $\pm$ 0.000 χ^2 /NDF: 123474272882.3

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 598309.5/15

Left Out: 0.007+/-0.000 χ^2/NDF : 875438.2/16

Right Out: 0.008+/-0.000 χ^2/NDF : 587157.2/18

Left In: 0.008+/-0.000 χ^2/NDF : 639634.7/14

Left: 0.007+/-0.000 χ^2/NDF : 1515258.1/31

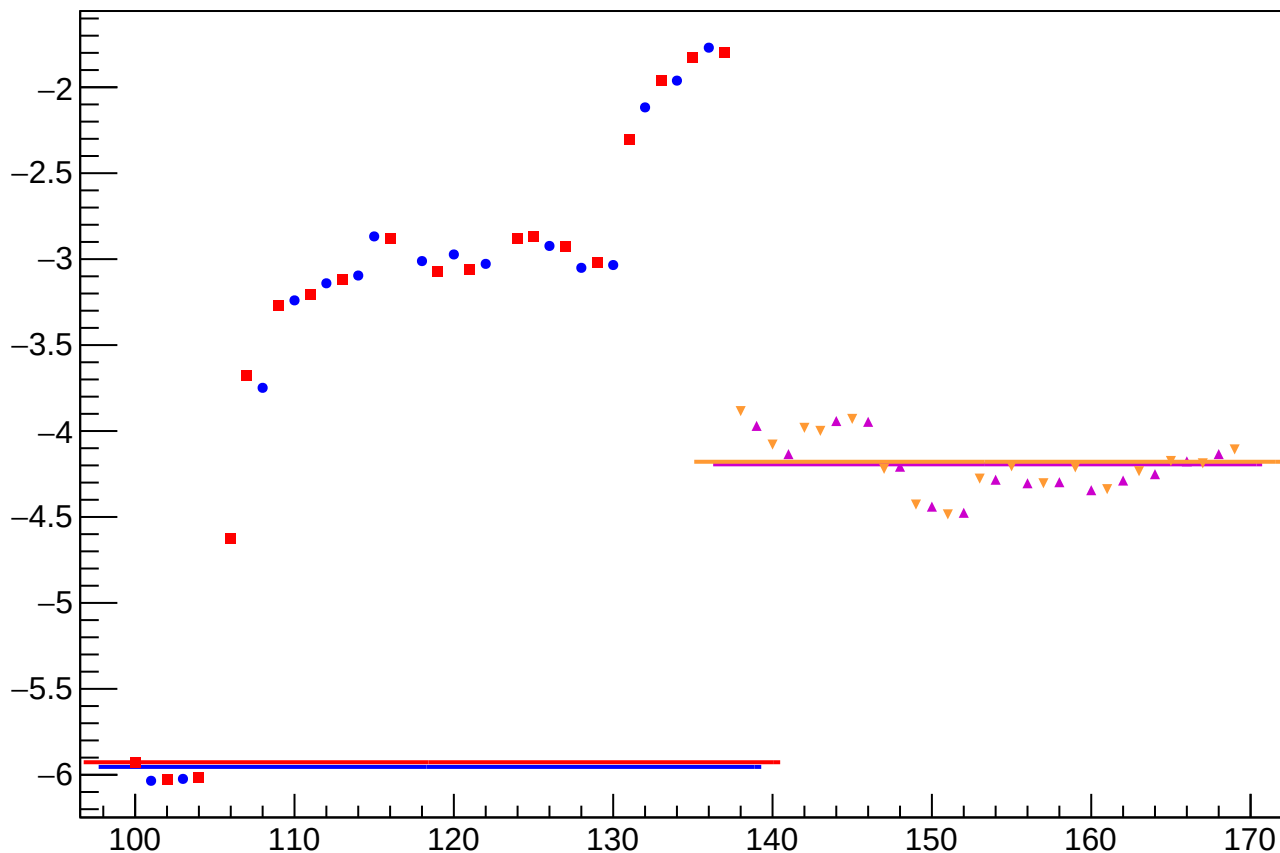
Right: 0.008+/-0.000 χ^2/NDF : 1191469.8/34

In: 0.008+/-0.000 χ^2/NDF : 1275161.8/30

Out: 0.008+/-0.000 χ^2/NDF : 1477482.8/35

All: 0.008+/-0.000 χ^2/NDF : 2755547.7/66

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -5.954+/-0.000 χ^2/NDF : 13099475661.5/15

Left Out: -4.179+/-0.000 χ^2/NDF : 53089869.7/16

Right Out: -5.927+/-0.000 χ^2/NDF : 13922819741.5/18

Left In: -4.194+/-0.000 χ^2/NDF : 40311324.0/14

Left: -4.186+/-0.000 χ^2/NDF : 93592988.2/31

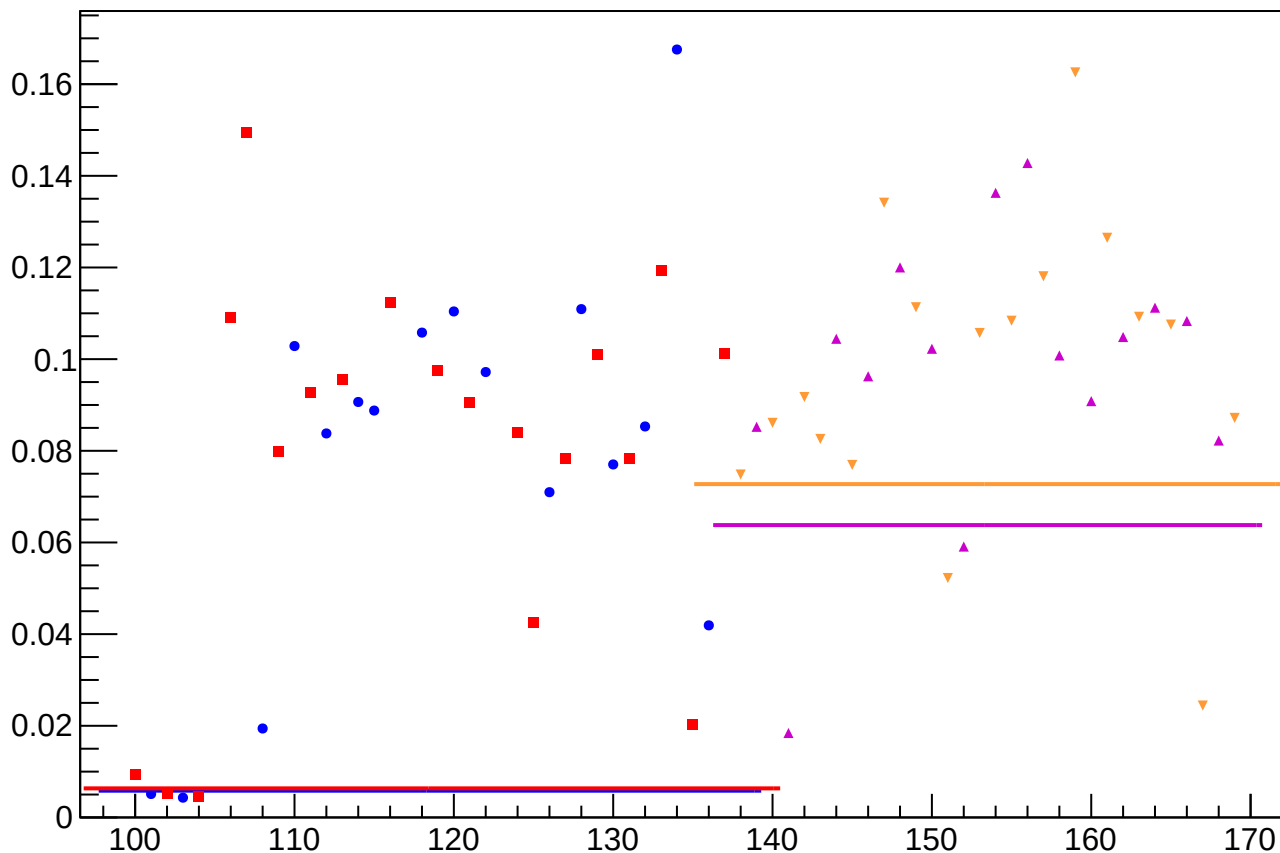
Right: -5.942+/-0.000 χ^2/NDF : 27039435928.9/34

In: -5.898+/-0.000 χ^2/NDF : 18231569484.0/30

Out: -5.859+/-0.000 χ^2/NDF : 19006634617.5/35

All: -5.880+/-0.000 χ^2/NDF : 37275016164.4/70

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8700553.3/15

Left Out: 0.073+/-0.000 χ^2/NDF :4252559.5/16

Right Out: 0.006+/-0.000 χ^2/NDF : 8751831.3/18

Left In: 0.064+/-0.000 χ^2/NDF :5647503.7/14

Left: 0.068+/-0.000 χ^2/NDF : 10036383.4/31

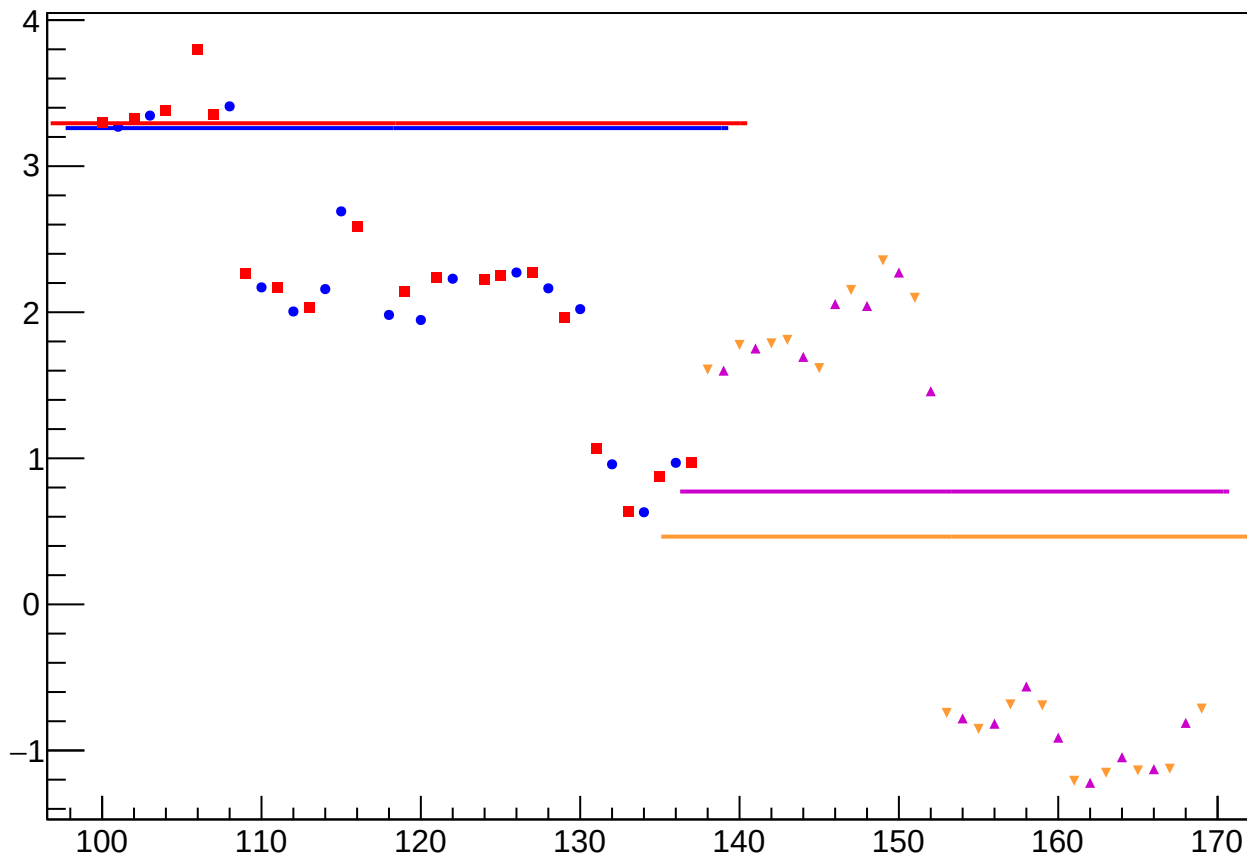
Right: 0.006+/-0.000 χ^2/NDF : 17464019.8/34

In: 0.008+/-0.000 χ^2/NDF :25383333.2/30

Out: 0.009+/-0.000 χ^2/NDF :27514966.7/35

All: 0.008+/-0.000 χ^2/NDF : 52972030.6/66

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 3.260 $\pm$ 0.000 χ^2 /NDF: 3009624113.9/15

Left Out: 0.464 $\pm$ 0.000 χ^2 /NDF: 2943364335.1/16

Right Out: 3.294 $\pm$ 0.000 χ^2 /NDF: 3243748149.8/18

Left In: 0.773 $\pm$ 0.000 χ^2 /NDF: 2008349692.1/14

Left: 0.604 $\pm$ 0.000 χ^2 /NDF: 5012606044.6/31

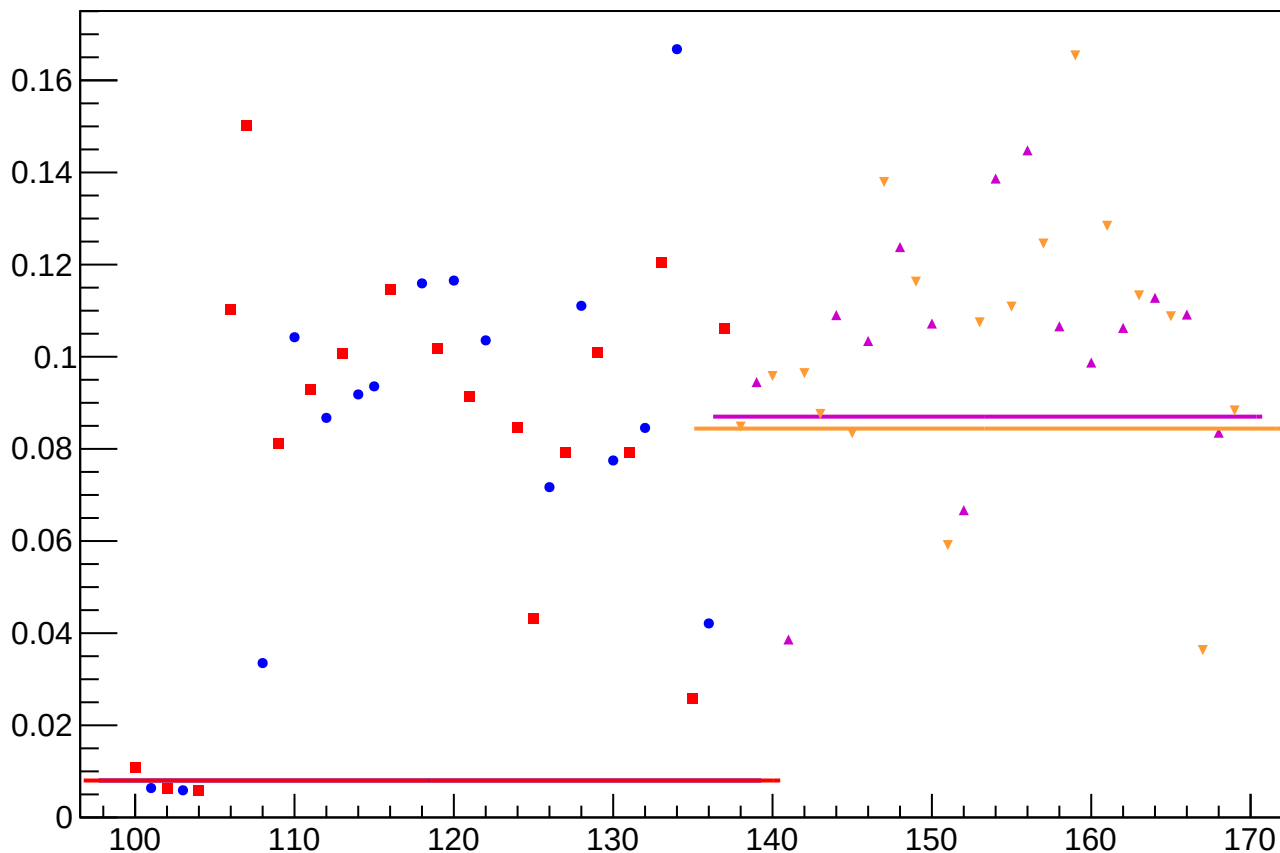
Right: 3.277 $\pm$ 0.000 χ^2 /NDF: 6269939296.1/34

In: 3.170 $\pm$ 0.000 χ^2 /NDF: 12005714955.3/30

Out: 3.164 $\pm$ 0.000 χ^2 /NDF: 16915305219.2/35

All: 3.167 $\pm$ 0.000 χ^2 /NDF: 28921568189.7/69

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 8415681.1/15

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:2752035.1/16

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 8542249.7/18

Left In: 0.087 $\pm$ 0.000 χ^2 /NDF:2244887.9/14

Left: 0.086 $\pm$ 0.000 χ^2 /NDF: 5005494.4/31

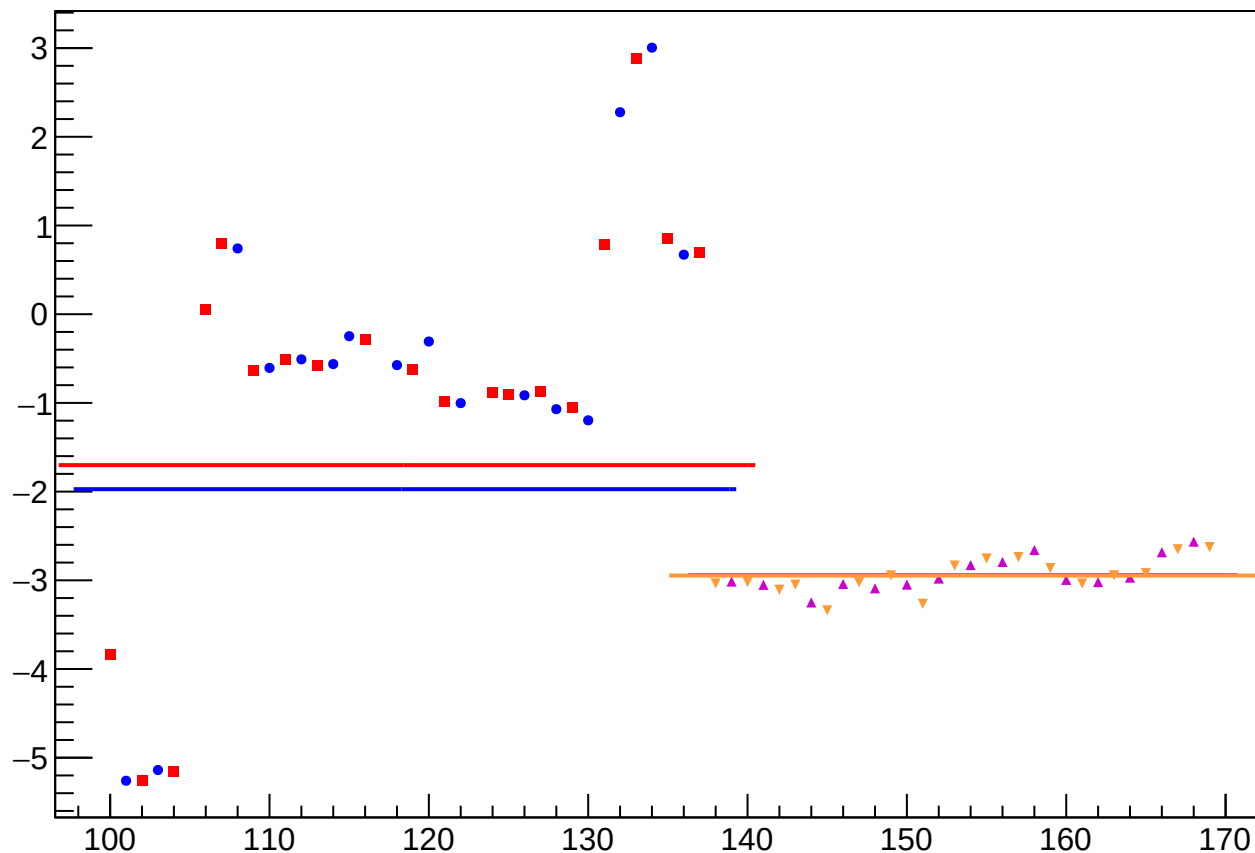
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 16957931.3/34

In: 0.011 $\pm$ 0.000 χ^2 /NDF:24743031.2/30

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:26928649.2/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 51683790.9/66

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.973+/-0.000 χ^2/NDF : 161975701237.3/15

Left Out: -2.946+/-0.000 χ^2/NDF : 7359595969.7/16

Right Out: -1.702+/-0.000 χ^2/NDF : 168156981746.0/18

Left In: -2.941+/-0.000 χ^2/NDF : 6124705628.1/14

Left: -2.944+/-0.000 χ^2/NDF : 13486645519.8/31

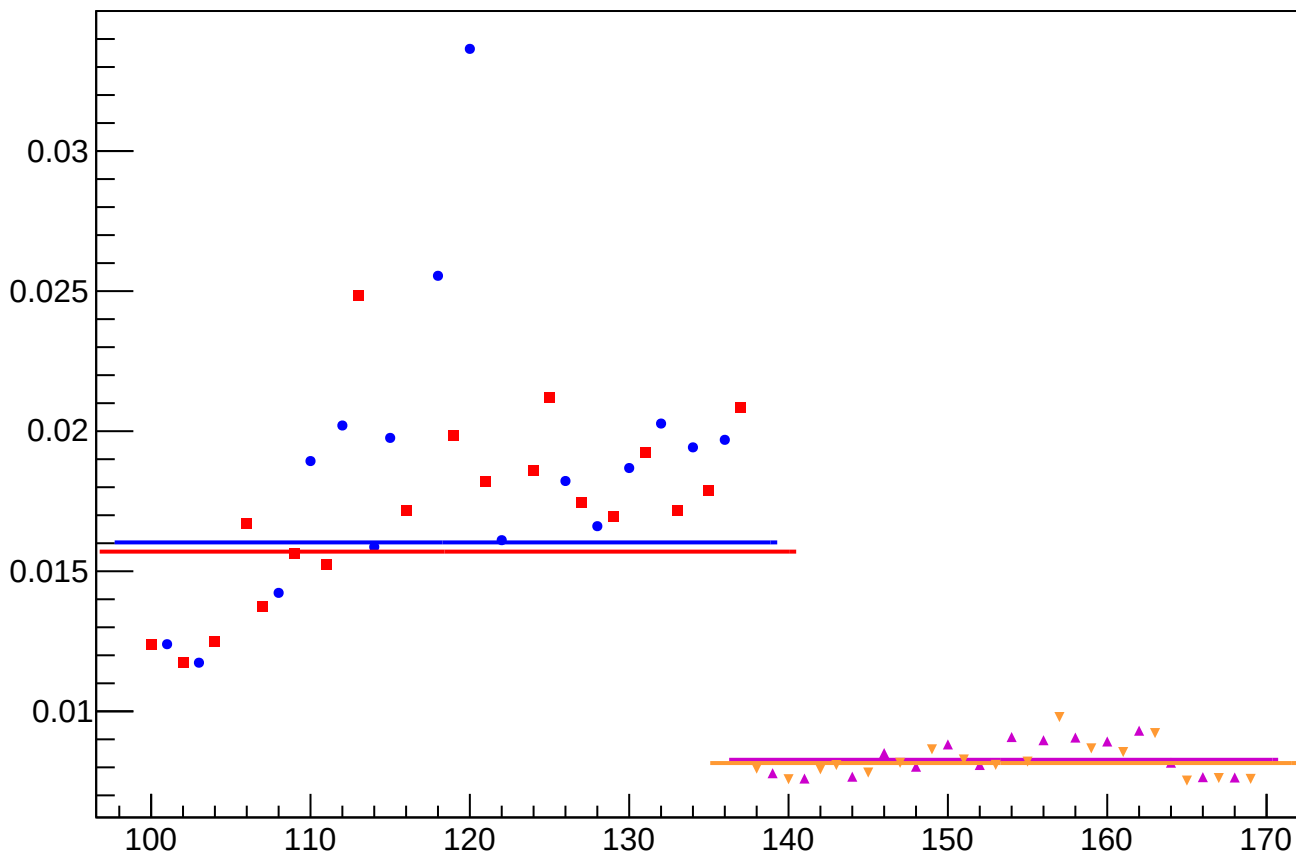
Right: -1.828+/-0.000 χ^2/NDF : 331019535290.3/34

In: -2.828+/-0.000 χ^2/NDF : 186856686335.0/30

Out: -2.798+/-0.000 χ^2/NDF : 210751914441.5/35

All: -2.812+/-0.000 χ^2/NDF : 397701159209.3

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 735736.8/15

Left Out: 0.008+/-0.000 χ^2/NDF :116996.6/16

Right Out: 0.016+/-0.000 χ^2/NDF : 504766.0/18

Left In: 0.008+/-0.000 χ^2/NDF :121574.8/14

Left: 0.008+/-0.000 χ^2/NDF : 241021.1/31

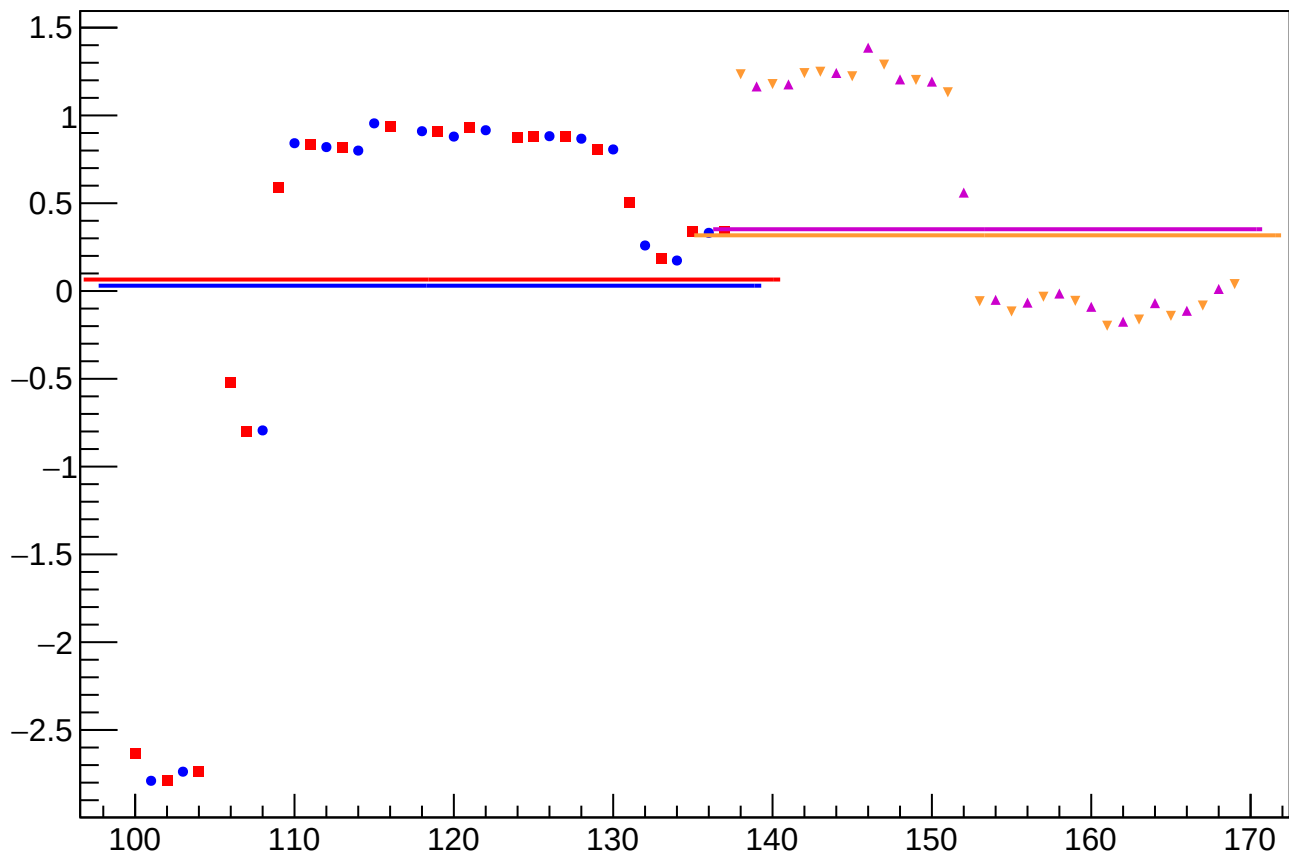
Right: 0.016+/-0.000 χ^2/NDF : 1243118.0/34

In: 0.009+/-0.000 χ^2/NDF :3266622.9/30

Out: 0.009+/-0.000 χ^2/NDF :3213782.2/35

All: 0.009+/-0.000 χ^2/NDF : 6483541.8/66

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.030+/-0.000

χ^2/NDF : 851677270962.0/15

Left: 0.333+/-0.000 χ^2/NDF : 170866633118.2/31

Right: 0.048+/-0.000 χ^2/NDF : 1787488269945.7/34

Left Out: 0.317+/-0.000

χ^2/NDF : 94844755708.7/16

In: 0.128+/-0.000 χ^2/NDF : 943948916389.7/30

Right Out: 0.065+/-0.000

χ^2/NDF : 935478930138.7/18

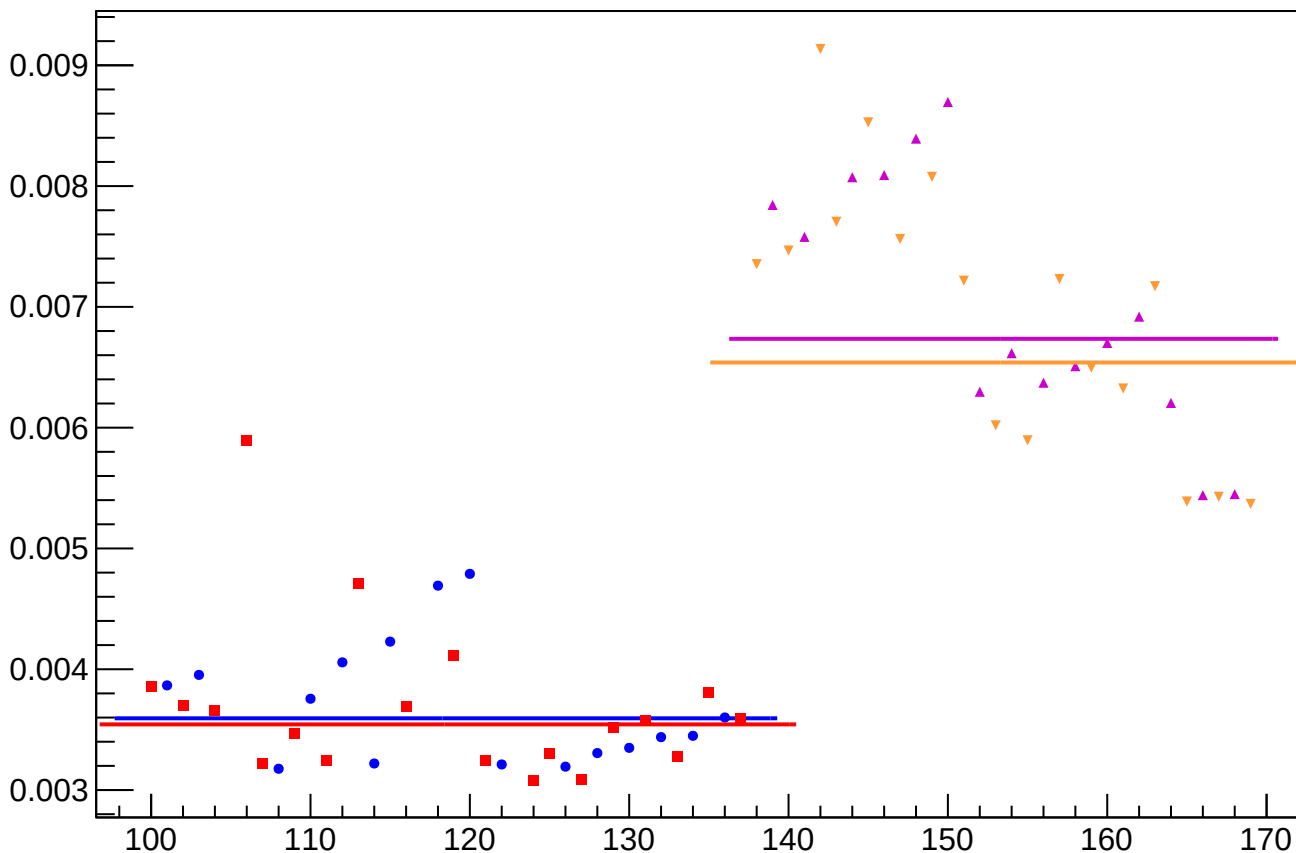
Out: 0.145+/-0.000 χ^2/NDF : 1041601710014.6/35

Left In: 0.352+/-0.000

χ^2/NDF : 75875632035.5/14

All: 0.137+/-0.000 χ^2/NDF : 1985667117756.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 180415.0/15

Left Out: 0.007+/-0.000 χ^2/NDF : 524691.4/16

Right Out: 0.004+/-0.000 χ^2/NDF : 224729.1/18

Left In: 0.007+/-0.000 χ^2/NDF : 431776.5/14

Left: 0.007+/-0.000 χ^2/NDF : 965800.9/31

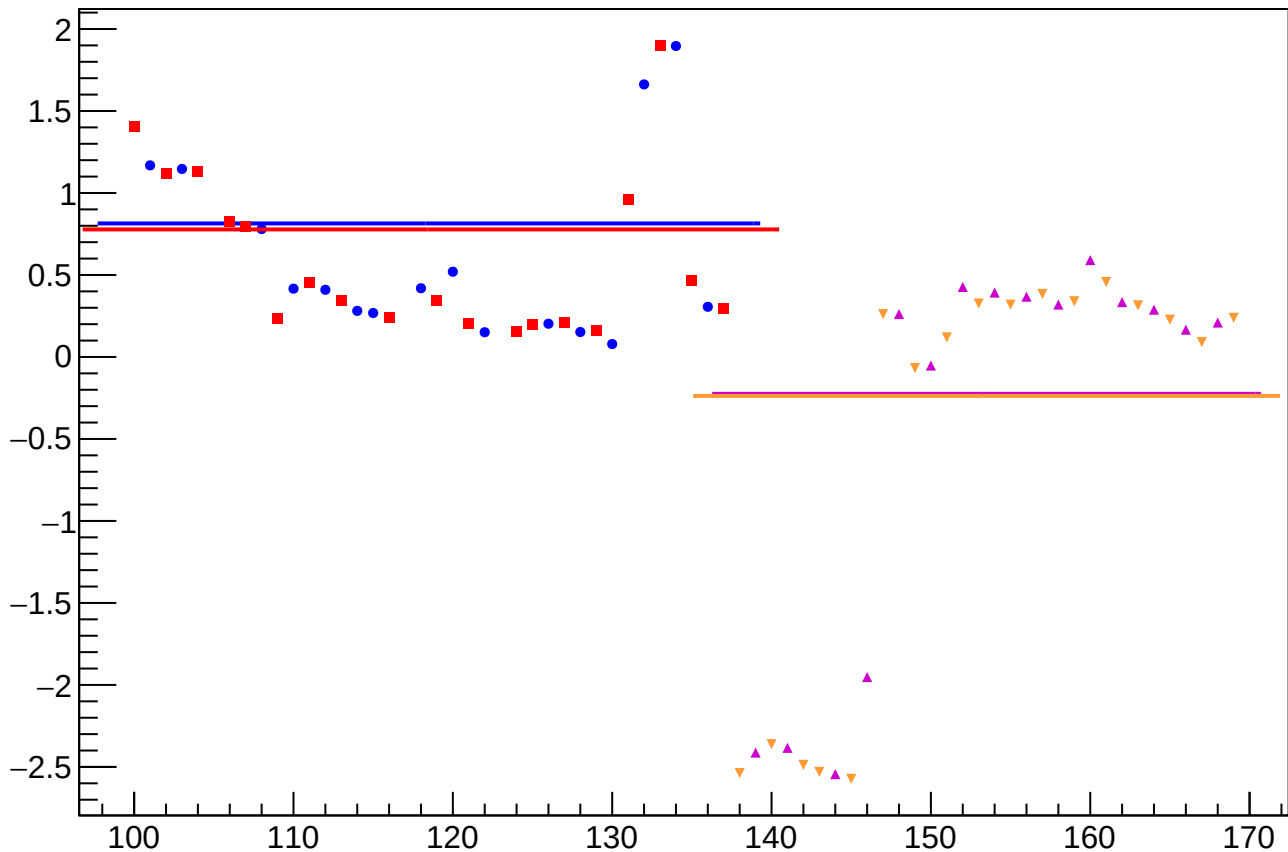
Right: 0.004+/-0.000 χ^2/NDF : 406509.3/34

In: 0.005+/-0.000 χ^2/NDF : 3741692.8/30

Out: 0.004+/-0.000 χ^2/NDF : 3942151.9/35

All: 0.005+/-0.000 χ^2/NDF : 7686142.7/66

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.814+/-0.000 χ^2/NDF : 35412149008.2/15

Left Out: -0.237+/-0.000 χ^2/NDF : 364528923814.7/16

Right Out: 0.778+/-0.000 χ^2/NDF : 34603328062.2/18

Left In: -0.225+/-0.000 χ^2/NDF : 325178726845.4/14

Left: -0.231+/-0.000 χ^2/NDF : 689731345828.8/31

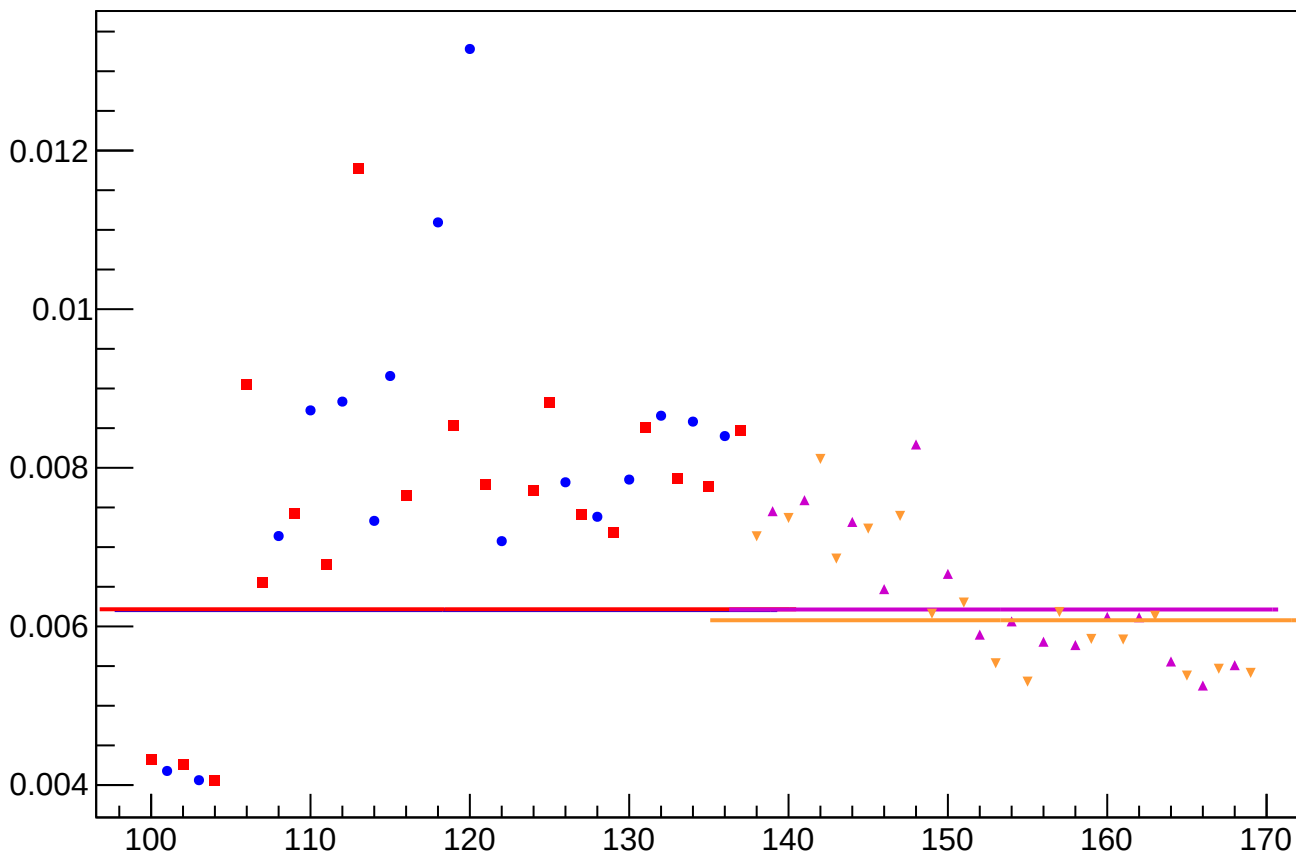
Right: 0.795+/-0.000 χ^2/NDF : 70115223181.3/34

In: 0.122+/-0.000 χ^2/NDF : 464446245445.4/30

Out: 0.092+/-0.000 χ^2/NDF : 507302385693.9/35

All: 0.106+/-0.000 χ^2/NDF : 971944968316.8

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1423886.1/15

Left Out: 0.006+/-0.000 χ^2/NDF :334319.2/16

Right Out: 0.006+/-0.000 χ^2/NDF : 1161117.9/18

Left In: 0.006+/-0.000 χ^2/NDF :333920.3/14

Left: 0.006+/-0.000 χ^2/NDF : 673846.5/31

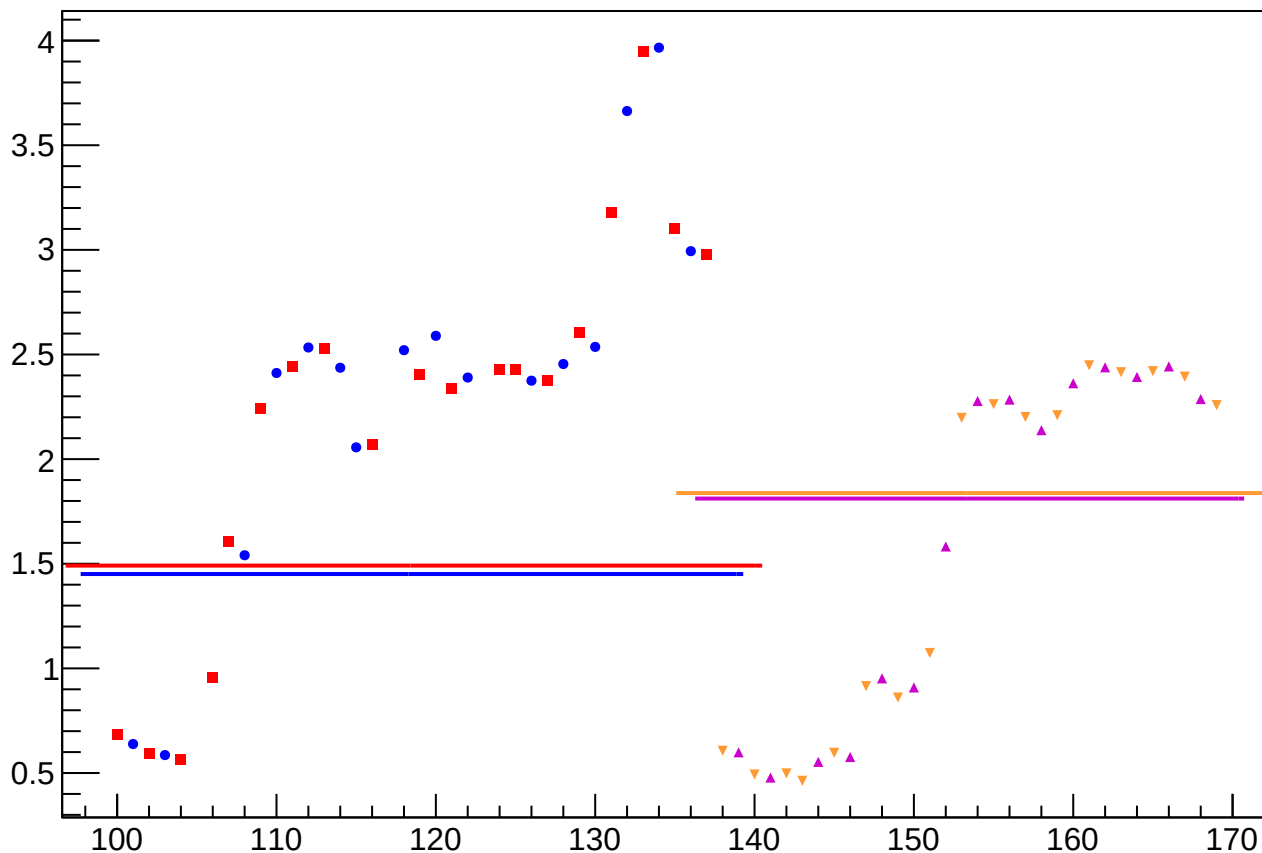
Right: 0.006+/-0.000 χ^2/NDF : 2585020.0/34

In: 0.006+/-0.000 χ^2/NDF :1757817.2/30

Out: 0.006+/-0.000 χ^2/NDF :1499465.0/35

All: 0.006+/-0.000 χ^2/NDF : 3260814.5/66

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.451+/-0.000 χ^2/NDF : 169635774704.4/15

Left Out: 1.838+/-0.000 χ^2/NDF : 193916602977.7/16

Right Out: 1.491+/-0.000 χ^2/NDF : 186952709821.0/18

Left In: 1.812+/-0.000 χ^2/NDF : 162928308903.1/14

Left: 1.826+/-0.000 χ^2/NDF : 356955821721.7/31

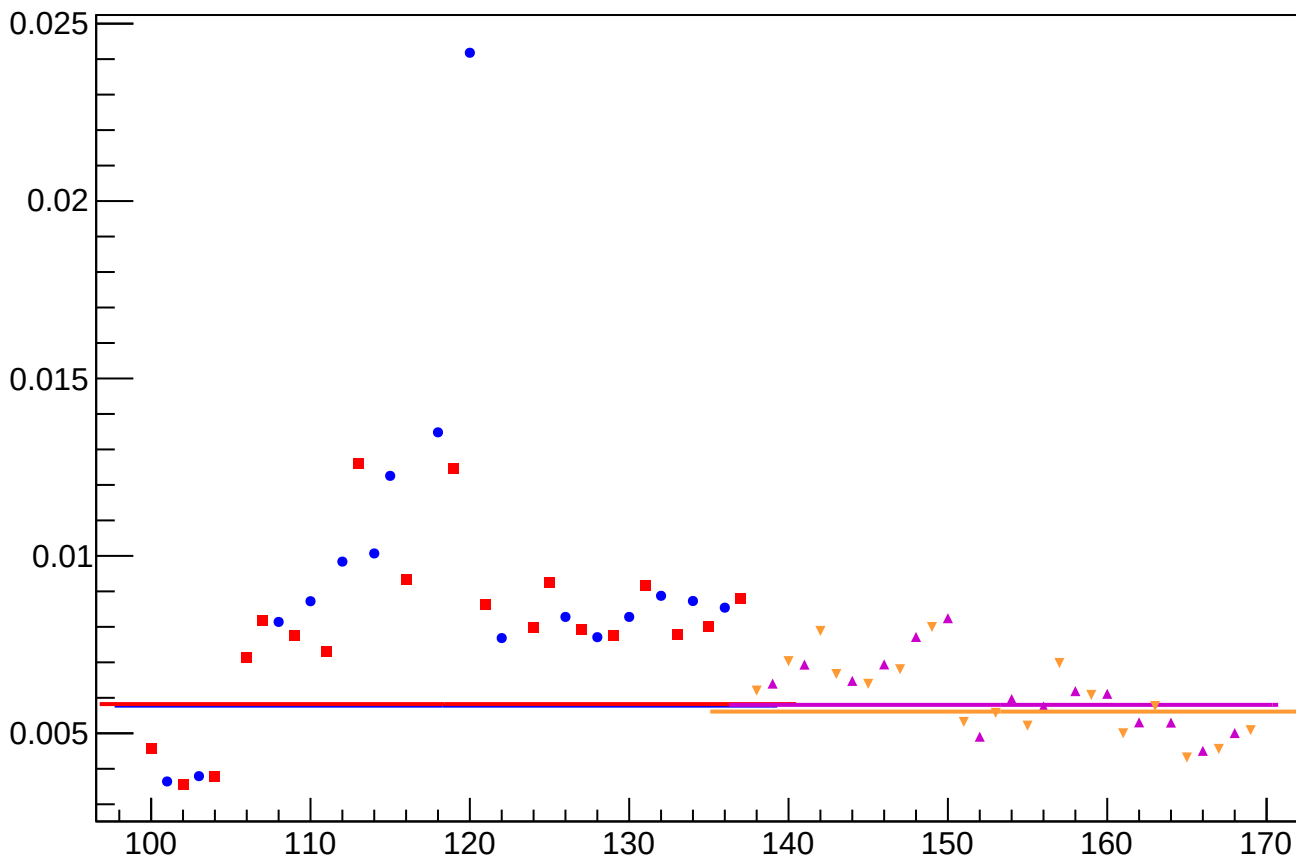
Right: 1.472+/-0.000 χ^2/NDF : 356714546192.4/34

In: 1.691+/-0.000 χ^2/NDF : 345521293068.7/30

Out: 1.727+/-0.000 χ^2/NDF : 394074016769.2/35

All: 1.710+/-0.000 χ^2/NDF : 739911269142.9

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2213885.3/15

Left Out: 0.006+/-0.000 χ^2/NDF : 610305.7/16

Right Out: 0.006+/-0.000 χ^2/NDF : 1955751.4/18

Left In: 0.006+/-0.000 χ^2/NDF : 512468.3/14

Left: 0.006+/-0.000 χ^2/NDF : 1134297.4/31

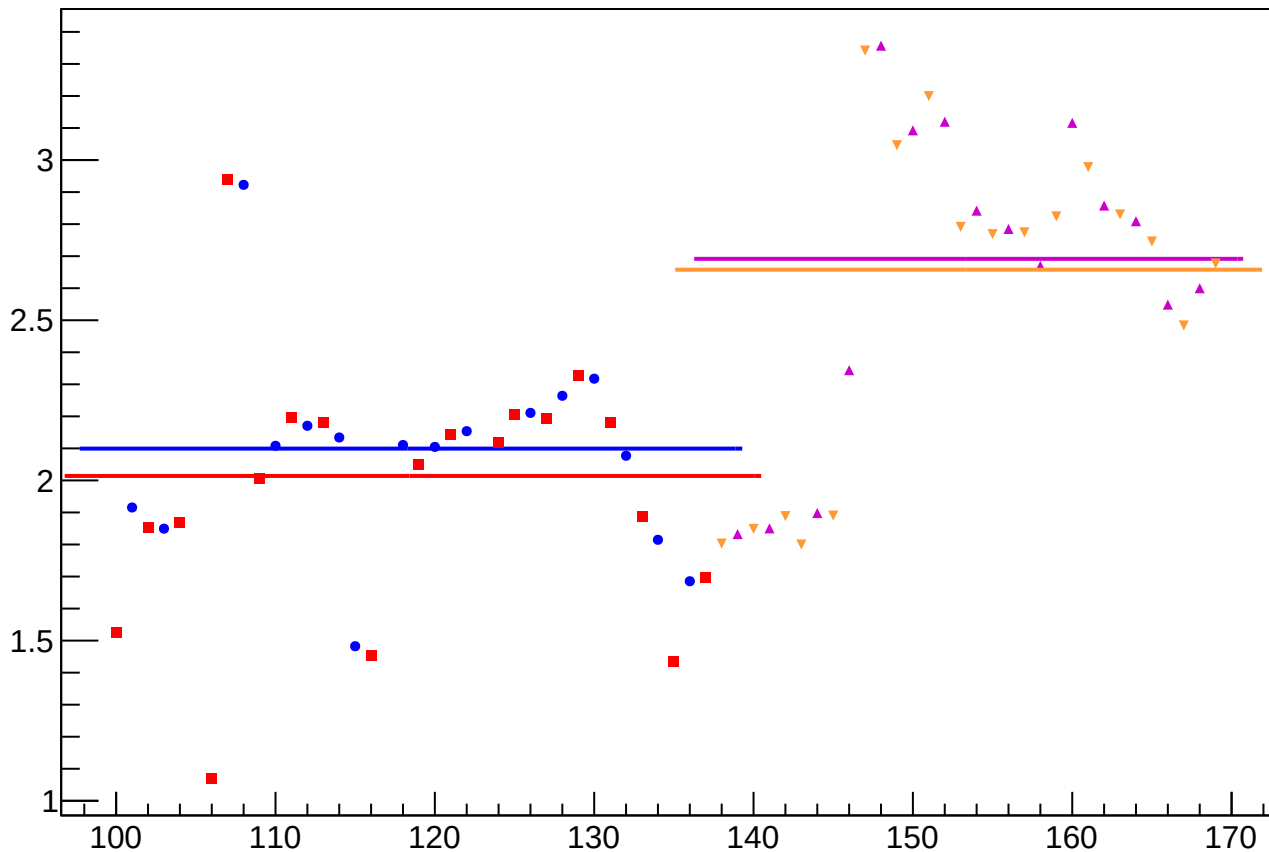
Right: 0.006+/-0.000 χ^2/NDF : 4169928.0/34

In: 0.006+/-0.000 χ^2/NDF : 2726446.0/30

Out: 0.006+/-0.000 χ^2/NDF : 2575911.9/35

All: 0.006+/-0.000 χ^2/NDF : 5308657.9/66

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 2.099+/-0.000

χ^2/NDF : 13928556396.8/15

Left: 2.674+/-0.000

χ^2/NDF : 80121657386.9/31

Left Out: 2.658+/-0.000

χ^2/NDF : 43400838750.9/16

Right: 2.055+/-0.000

χ^2/NDF : 34101176841.4/34

Right Out: 2.014+/-0.000

χ^2/NDF : 19615856596.5/18

In: 2.432+/-0.000

χ^2/NDF : 79524745551.1/30

Out: 2.377+/-0.000

χ^2/NDF : 100281692474.5/35

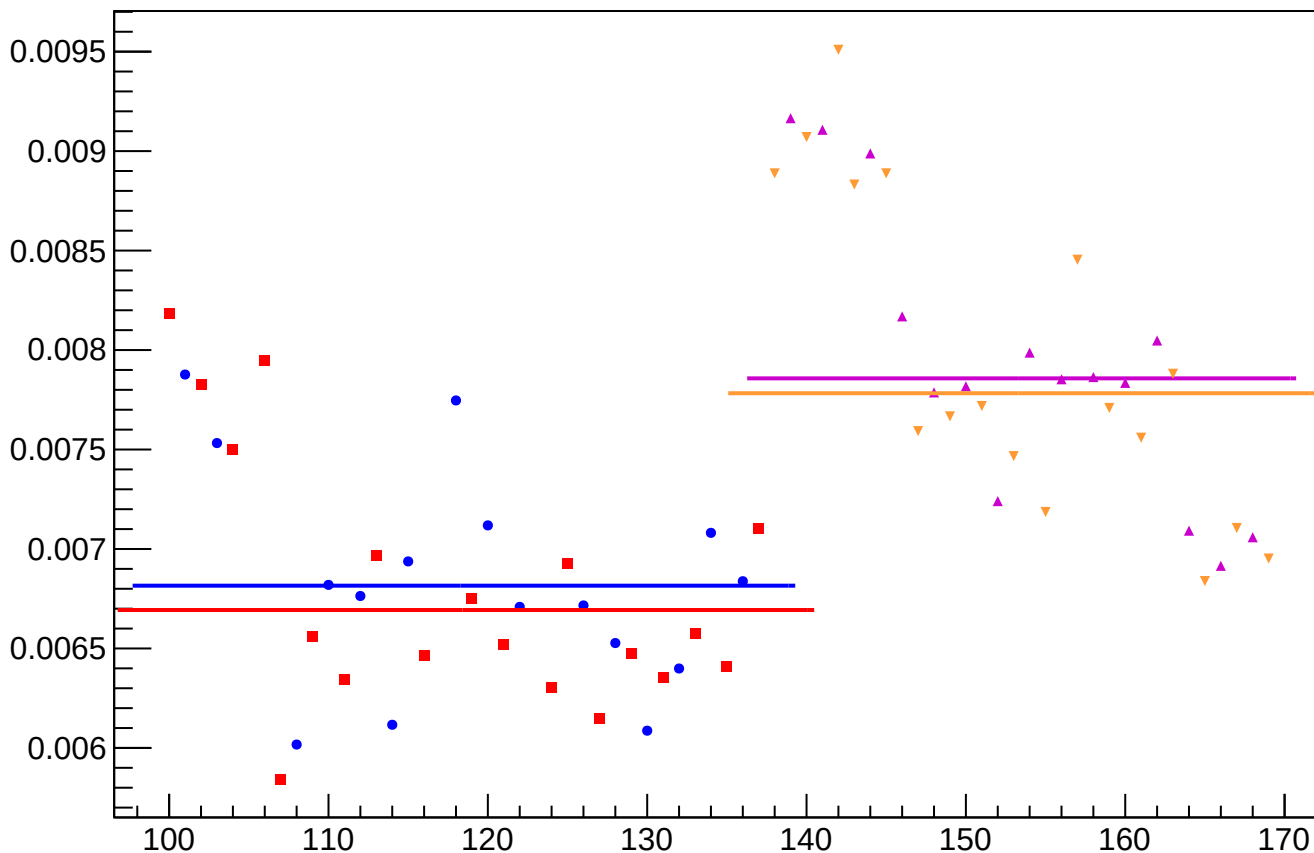
Left In: 2.692+/-0.000

χ^2/NDF : 36607932805.3/14

All: 2.403+/-0.000

χ^2/NDF : 180339690688.0

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 86781.0/15

Left Out: 0.008+/-0.000 χ^2/NDF : 208697.9/16

Right Out: 0.007+/-0.000 χ^2/NDF : 87876.9/18

Left In: 0.008+/-0.000 χ^2/NDF : 161867.1/14

Left: 0.008+/-0.000 χ^2/NDF : 371665.8/31

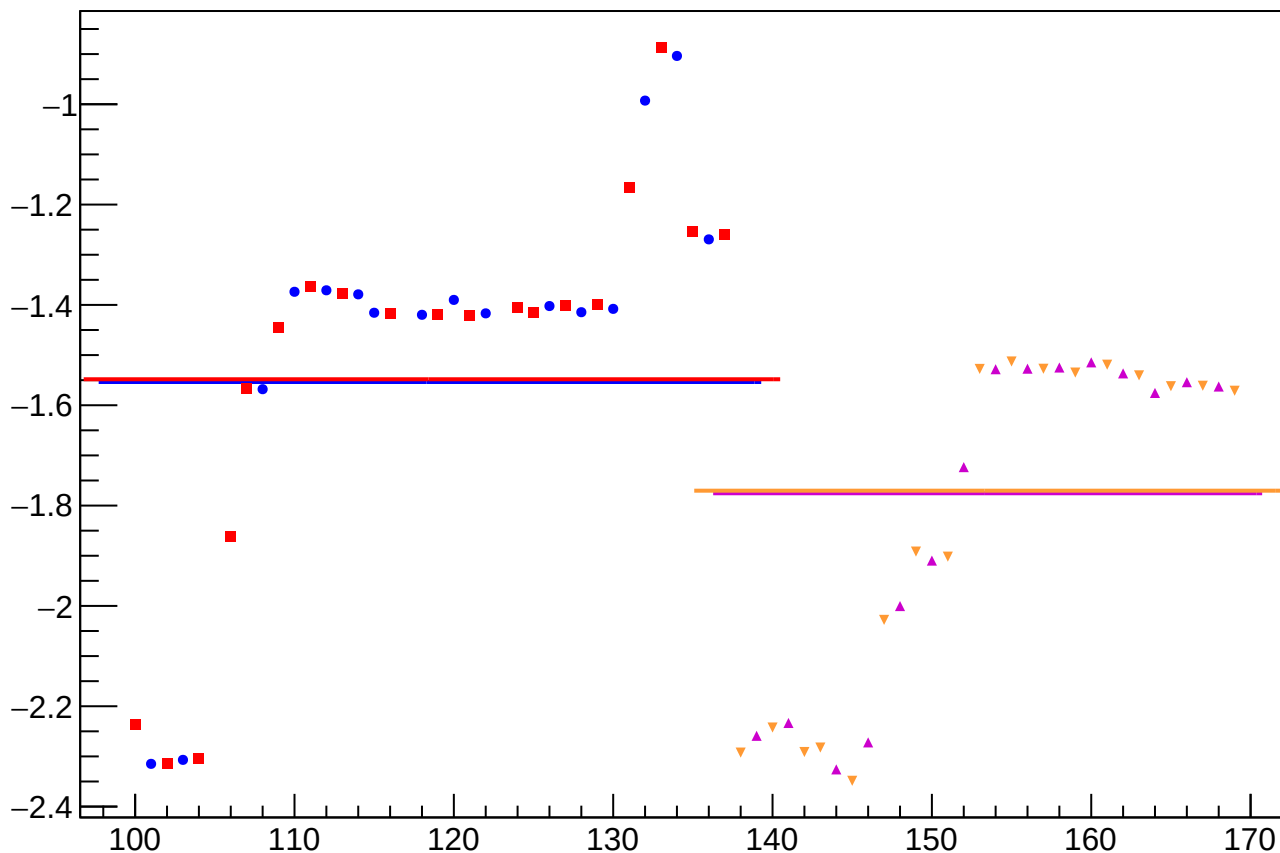
Right: 0.007+/-0.000 χ^2/NDF : 176946.8/34

In: 0.007+/-0.000 χ^2/NDF : 428090.6/30

Out: 0.007+/-0.000 χ^2/NDF : 510080.2/35

All: 0.007+/-0.000 χ^2/NDF : 941235.1/66

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.554+/-0.000 χ^2/NDF : 175176621986.0/15

Left Out: -1.770+/-0.000 χ^2/NDF : 137126024259.9/16

Right Out: -1.548+/-0.000 χ^2/NDF : 174743666302.8/18

Left In: -1.775+/-0.000 χ^2/NDF : 121377943934.1/14

Left: -1.773+/-0.000 χ^2/NDF : 258521448316.6/31

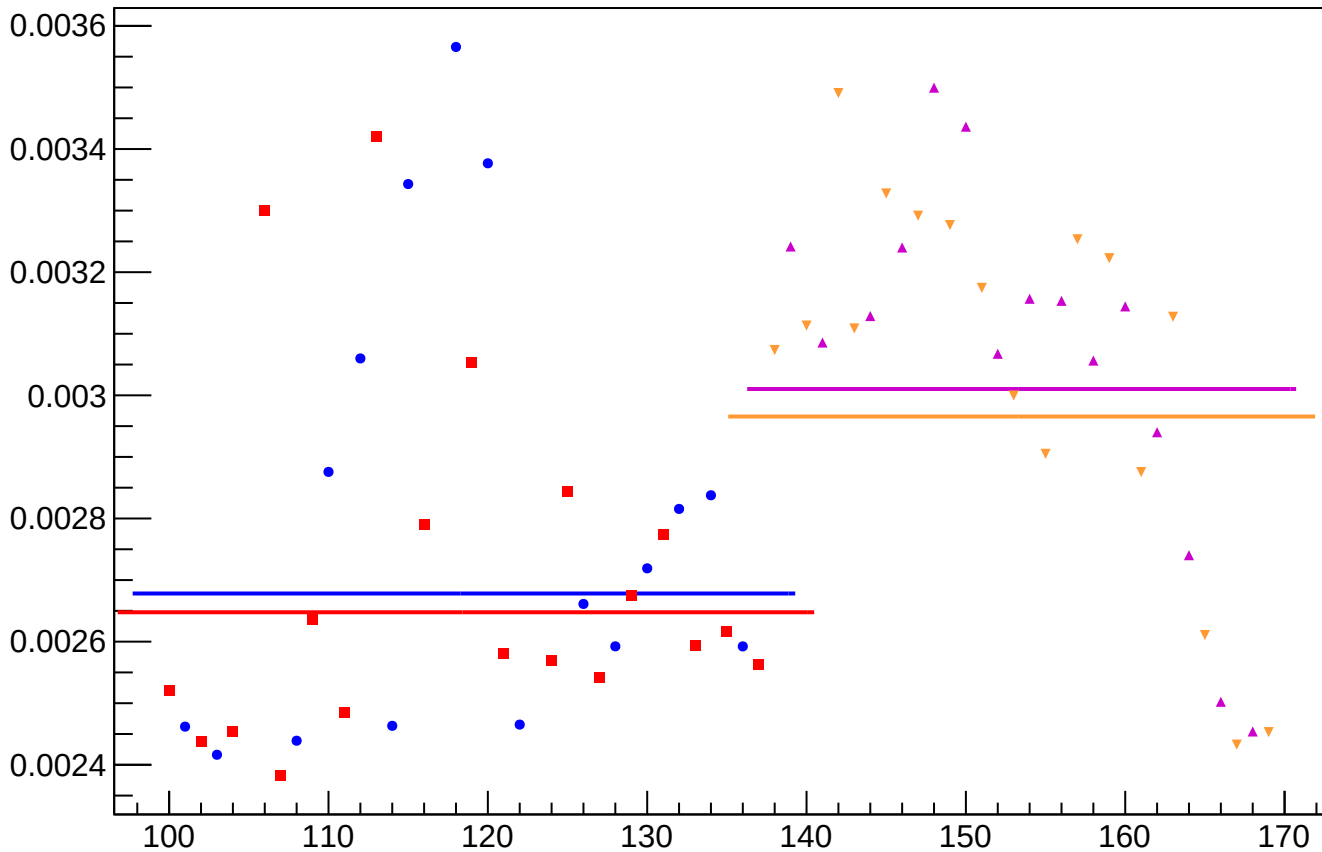
Right: -1.551+/-0.000 χ^2/NDF : 349934542439.1/34

In: -1.681+/-0.000 χ^2/NDF : 322972101861.9/30

Out: -1.677+/-0.000 χ^2/NDF : 340606632018.1/35

All: -1.679+/-0.000 χ^2/NDF : 663591867312.2

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 157881.5/15

Left Out: 0.003+/-0.000 χ^2/NDF : 275016.4/16

Right Out: 0.003+/-0.000 χ^2/NDF : 116150.5/18

Left In: 0.003+/-0.000 χ^2/NDF : 231292.5/14

Left: 0.003+/-0.000 χ^2/NDF : 508953.6/31

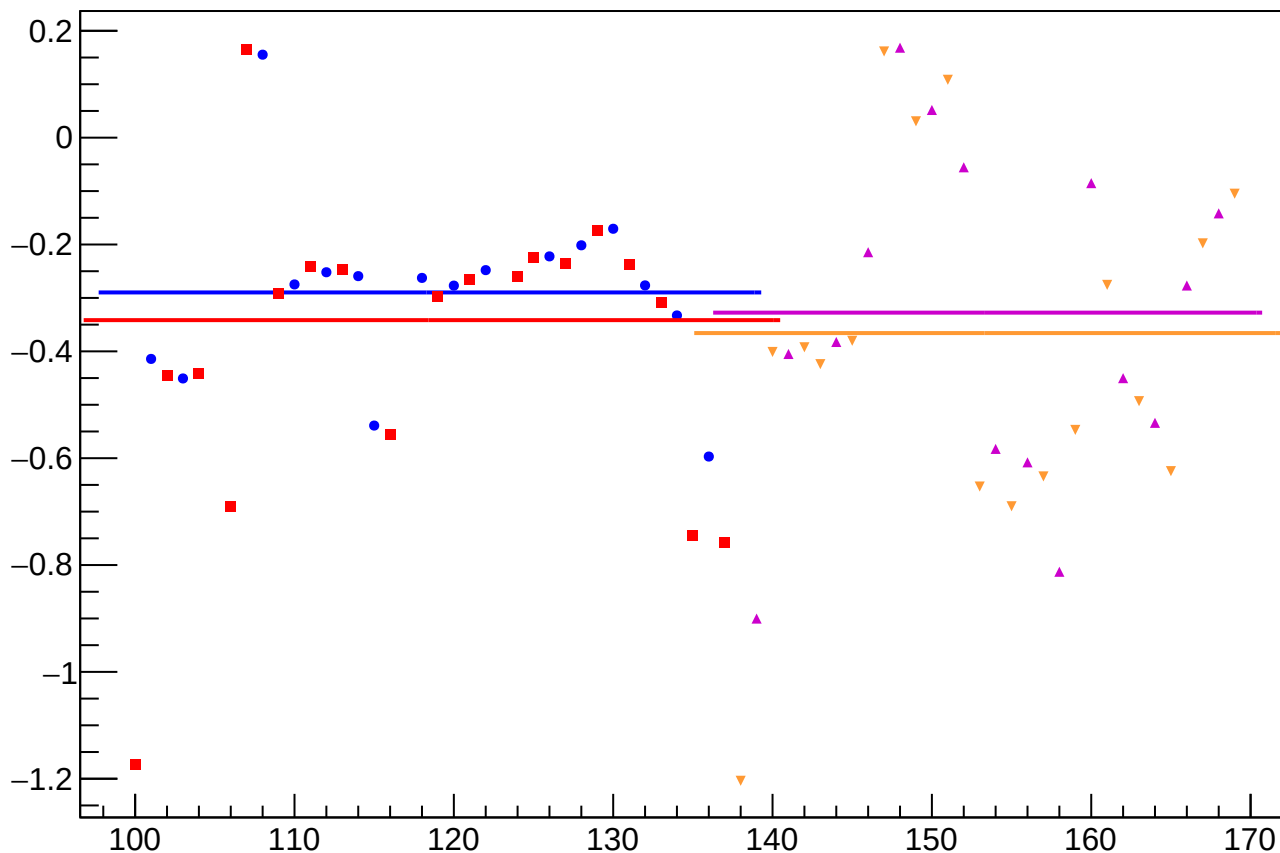
Right: 0.003+/-0.000 χ^2/NDF : 274930.8/34

In: 0.003+/-0.000 χ^2/NDF : 507638.3/30

Out: 0.003+/-0.000 χ^2/NDF : 508920.5/35

All: 0.003+/-0.000 χ^2/NDF : 1019520.1/66

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.290 ± 0.000 $\chi^2/\text{NDF}: 1645174238.4/15$

Left Out: -0.366 ± 0.000 $\chi^2/\text{NDF}: 7887764507.5/16$

Right Out: -0.342 ± 0.000 $\chi^2/\text{NDF}: 2609243421.7/18$

Left In: -0.328 ± 0.000 $\chi^2/\text{NDF}: 6076061224.6/14$

Left: -0.348 ± 0.000 $\chi^2/\text{NDF}: 14015451676.7/31$

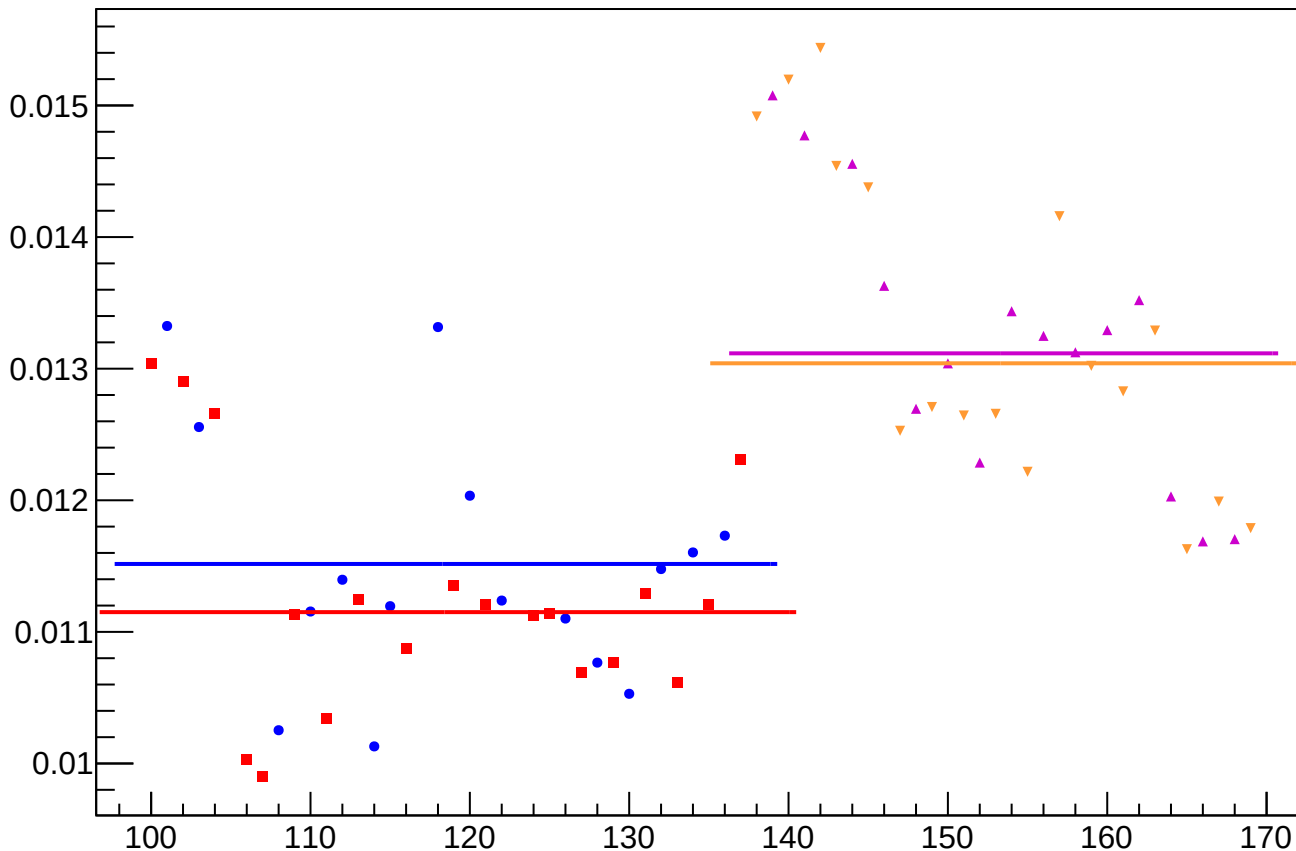
Right: -0.317 ± 0.000 $\chi^2/\text{NDF}: 4328413510.6/34$

In: -0.311 ± 0.000 $\chi^2/\text{NDF}: 7763332338.3/30$

Out: -0.355 ± 0.000 $\chi^2/\text{NDF}: 10516116760.8/35$

All: -0.334 ± 0.000 $\chi^2/\text{NDF}: 18401209225.3/70$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 84278.9/15

Left Out: 0.013 $\pm$ 0.000 χ^2 /NDF:172642.5/16

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 70560.1/18

Left In: 0.013 $\pm$ 0.000 χ^2 /NDF:128536.5/14

Left: 0.013 $\pm$ 0.000 χ^2 /NDF: 301584.0/31

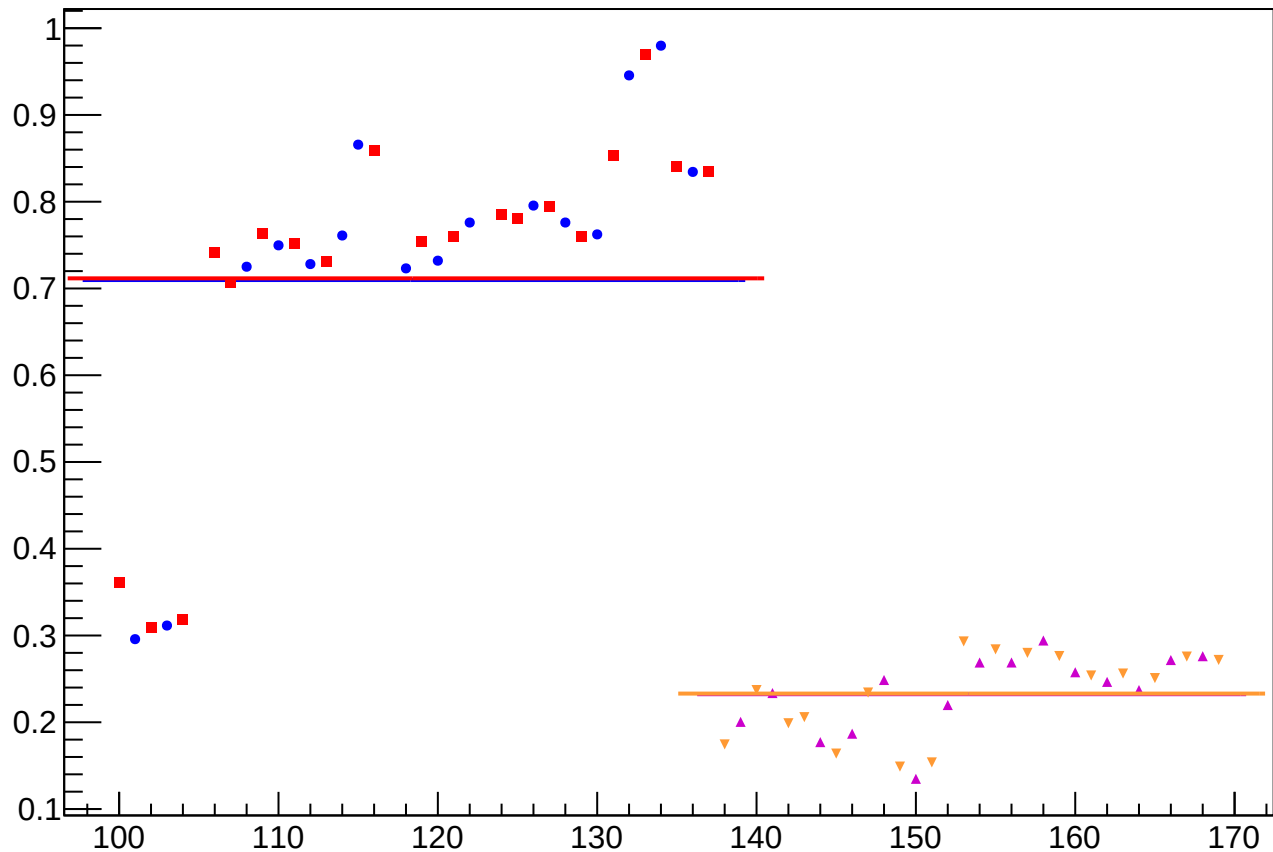
Right: 0.011 $\pm$ 0.000 χ^2 /NDF: 162212.6/34

In: 0.012 $\pm$ 0.000 χ^2 /NDF:363580.2/30

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:476278.8/35

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 845571.6/66

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.710+/-0.000 χ^2/NDF : 48924347494.6/15

Left Out: 0.233+/-0.000 χ^2/NDF : 6445000519.2/16

Right Out: 0.712+/-0.000 χ^2/NDF : 44174681920.8/18

Left In: 0.232+/-0.000 χ^2/NDF : 4988262744.7/14

Left: 0.233+/-0.000 χ^2/NDF : 11433992912.9/31

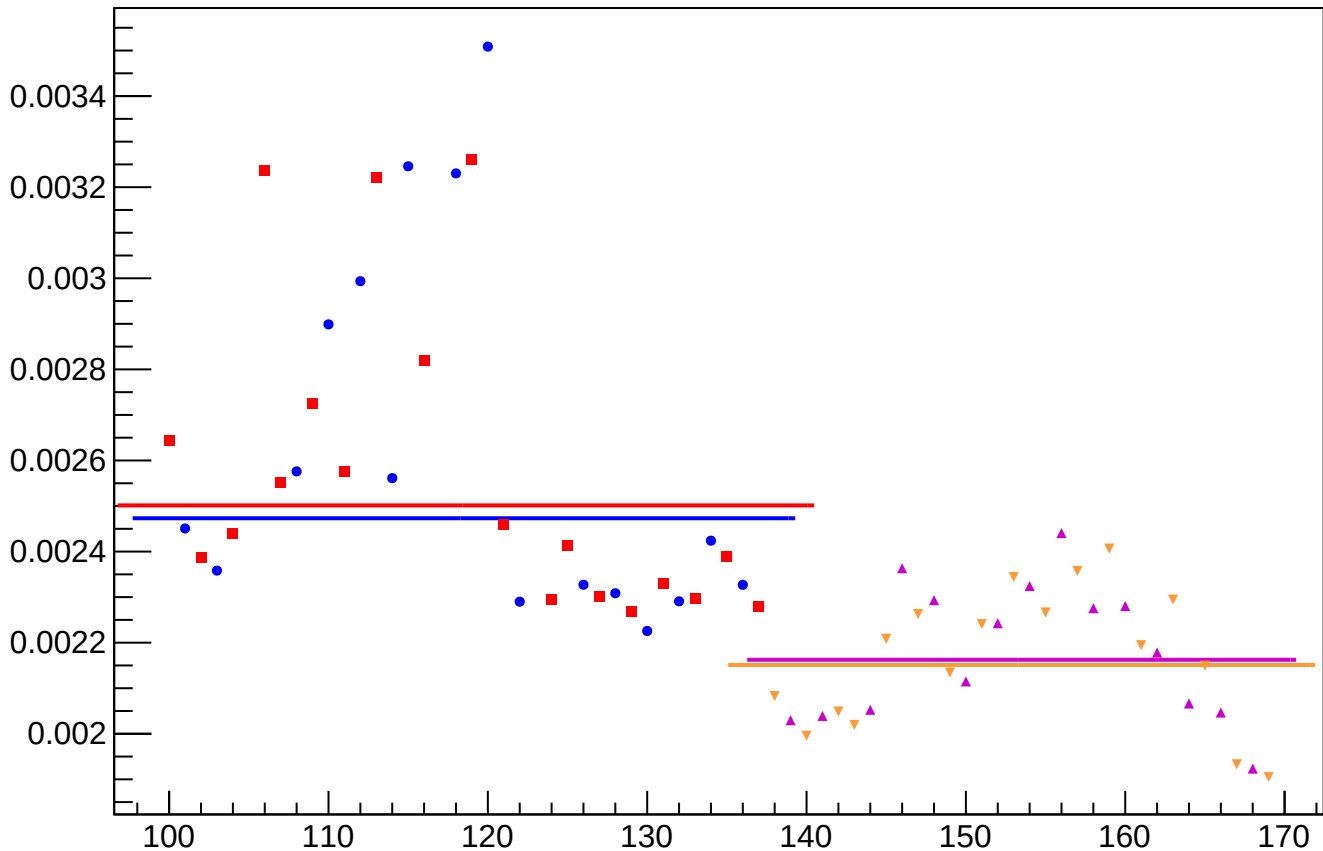
Right: 0.711+/-0.000 χ^2/NDF : 93101138571.1/34

In: 0.375+/-0.000 χ^2/NDF : 232023464483.0/30

Out: 0.368+/-0.000 χ^2/NDF : 235438607955.2/35

All: 0.372+/-0.000 χ^2/NDF : 467552560337.5

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 208046.5/15

Left Out: 0.002+/-0.000 χ^2/NDF :130256.9/16

Right Out: 0.003+/-0.000 χ^2/NDF : 177427.2/18

Left In: 0.002+/-0.000 χ^2/NDF :111174.7/14

Left: 0.002+/-0.000 χ^2/NDF : 241781.3/31

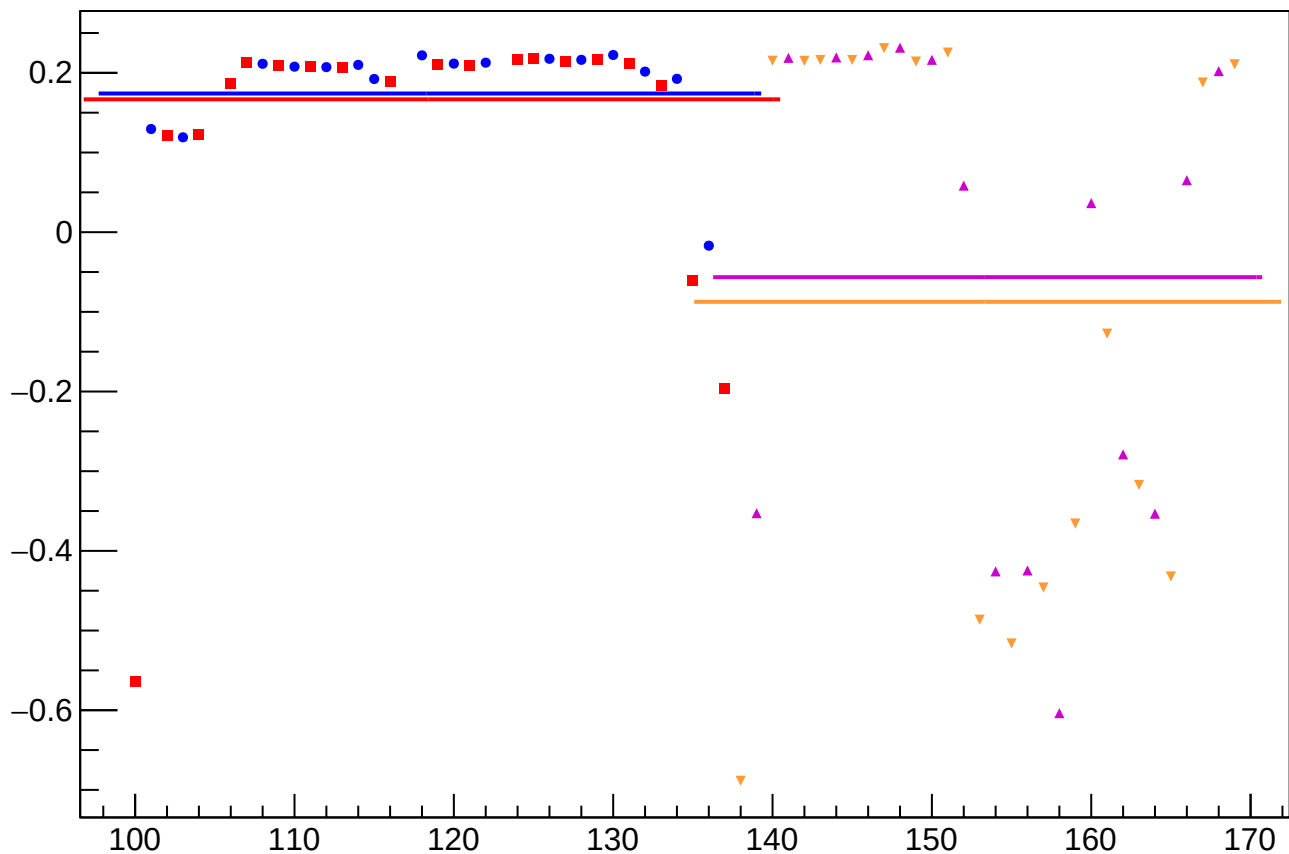
Right: 0.002+/-0.000 χ^2/NDF : 386364.7/34

In: 0.002+/-0.000 χ^2/NDF :470109.1/30

Out: 0.002+/-0.000 χ^2/NDF :505624.4/35

All: 0.002+/-0.000 χ^2/NDF : 975842.4/66

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.174+/-0.000 χ^2/NDF : 401946344.0/15

Left Out: -0.087+/-0.000 χ^2/NDF : 9792446367.1/16

Right Out: 0.167+/-0.000 χ^2/NDF : 894131198.6/18

Left In: -0.056+/-0.000 χ^2/NDF : 7145483096.4/14

Left: -0.073+/-0.000 χ^2/NDF : 16979173609.8/31

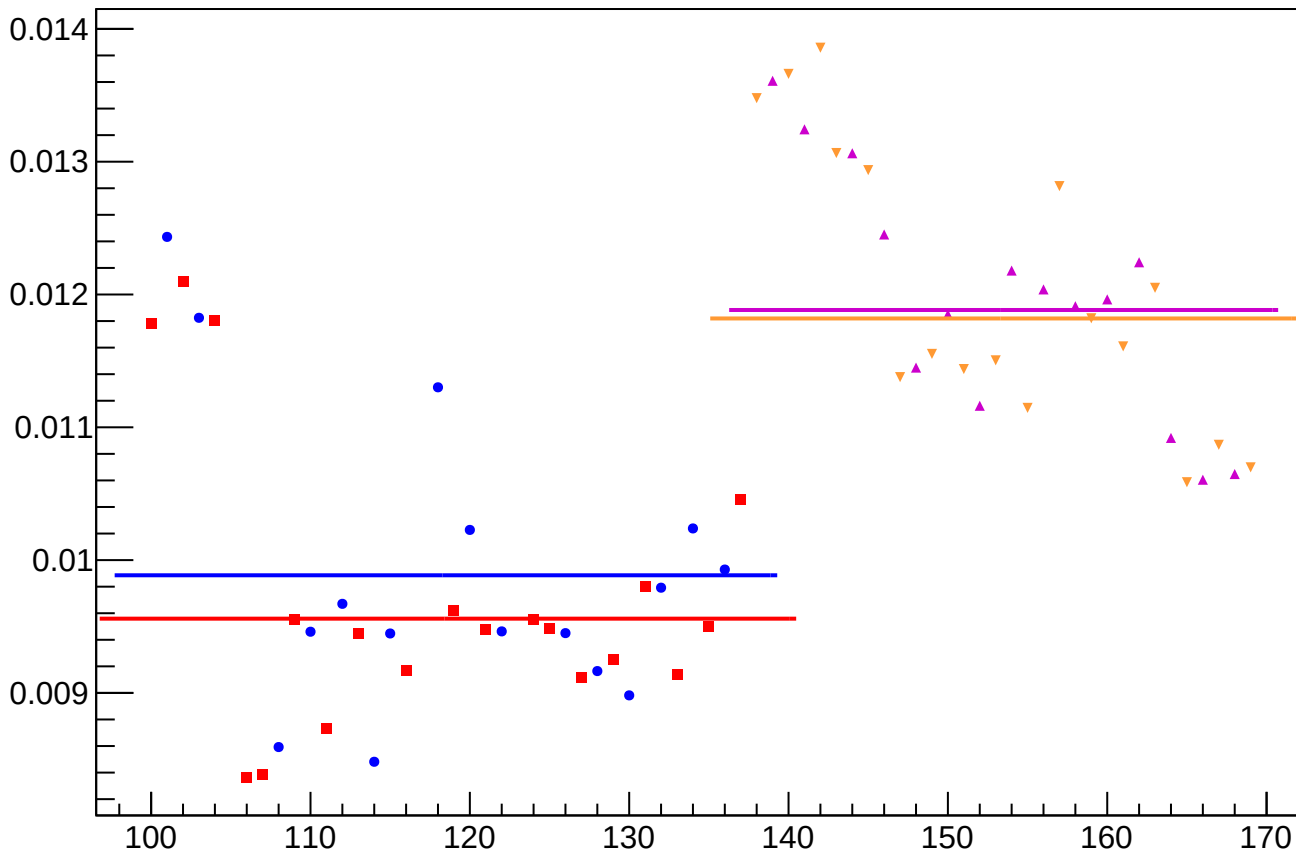
Right: 0.170+/-0.000 χ^2/NDF : 1298066263.7/34

In: 0.049+/-0.000 χ^2/NDF : 9563444076.6/30

Out: 0.031+/-0.000 χ^2/NDF : 13403805629.9/35

All: 0.040+/-0.000 χ^2/NDF : 22994403817.0/6

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 148562.0/15

Left Out: 0.012+/-0.000 χ^2/NDF :158947.5/16

Right Out: 0.010+/-0.000 χ^2/NDF : 136197.0/18

Left In: 0.012+/-0.000 χ^2/NDF :119531.9/14

Left: 0.012+/-0.000 χ^2/NDF : 278830.5/31

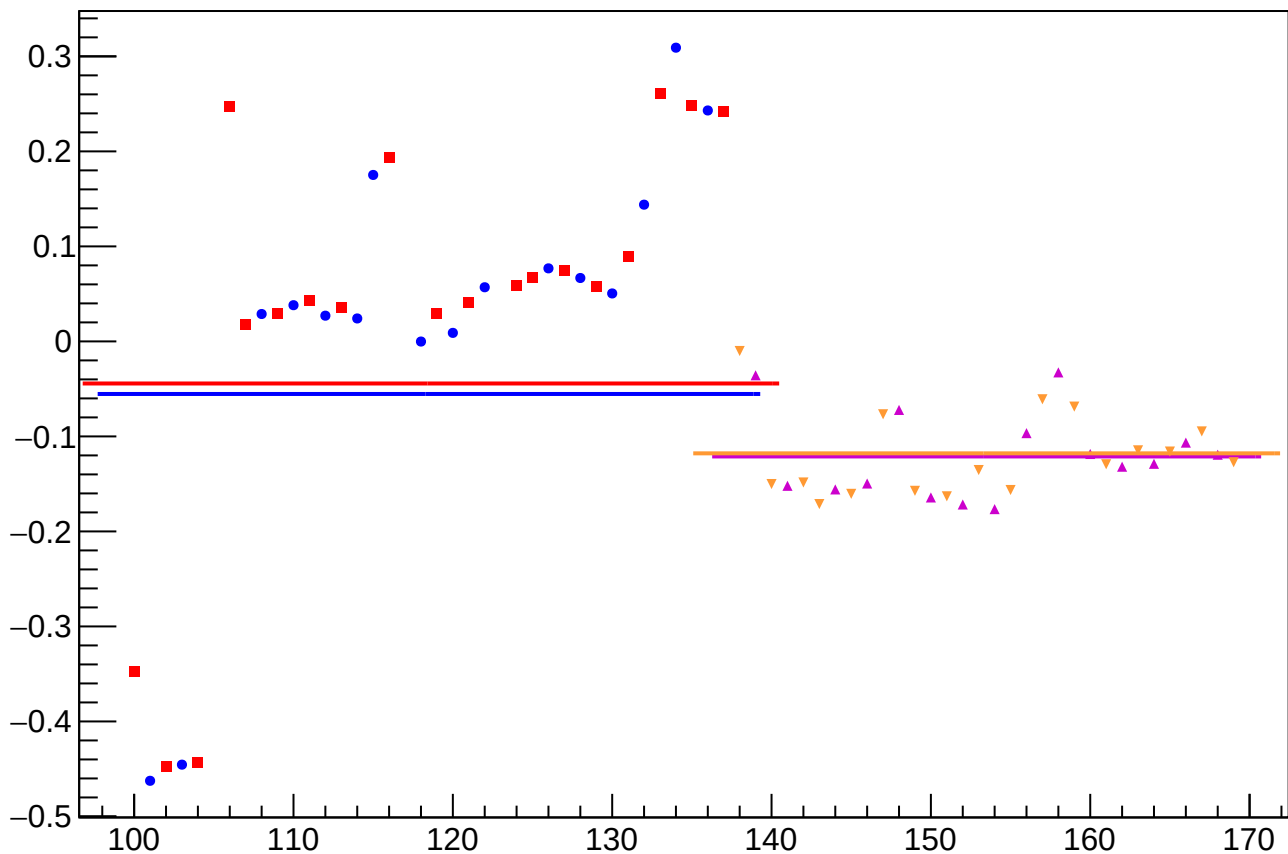
Right: 0.010+/-0.000 χ^2/NDF : 292678.0/34

In: 0.011+/-0.000 χ^2/NDF :570871.3/30

Out: 0.011+/-0.000 χ^2/NDF :725093.0/35

All: 0.011+/-0.000 χ^2/NDF : 1302354.1/66

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.055 ± 0.000 $\chi^2/\text{NDF}: 24081939190.6/15$

Left Out: -0.118 ± 0.000 $\chi^2/\text{NDF}: 2810642440.1/16$

Right Out: -0.044 ± 0.000 $\chi^2/\text{NDF}: 22136167141.7/18$

Left In: -0.121 ± 0.000 $\chi^2/\text{NDF}: 2759317058.8/14$

Left: -0.119 ± 0.000 $\chi^2/\text{NDF}: 5578062272.9/31$

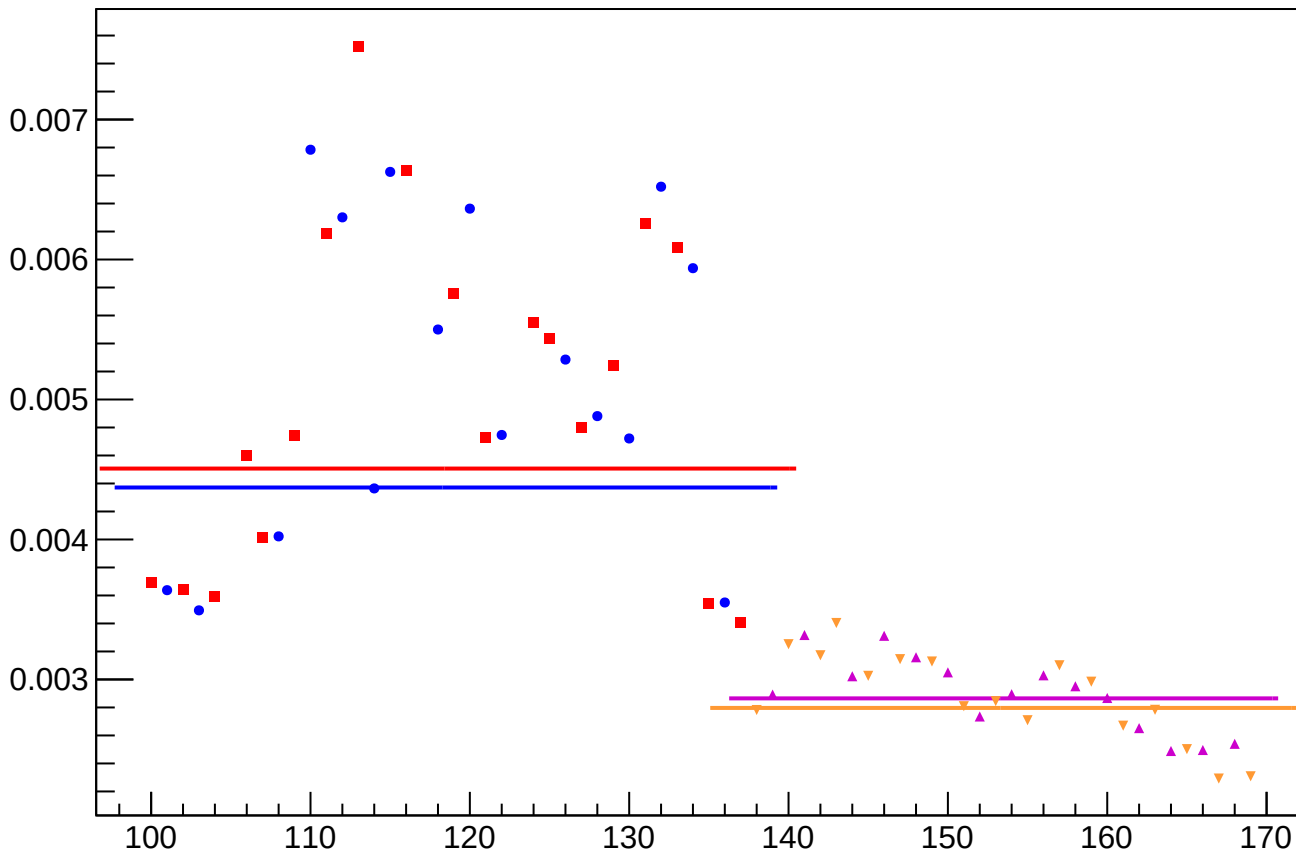
Right: -0.050 ± 0.000 $\chi^2/\text{NDF}: 46237436160.9/34$

In: -0.109 ± 0.000 $\chi^2/\text{NDF}: 27969016670.8/30$

Out: -0.106 ± 0.000 $\chi^2/\text{NDF}: 26371212047.2/35$

All: -0.107 ± 0.000 $\chi^2/\text{NDF}: 54349608614.0/70$

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 660432.6/15

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:326442.7/16

Right Out: 0.005 $\pm$ 0.000 χ^2 /NDF: 704549.6/18

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:181355.5/14

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 514858.1/31

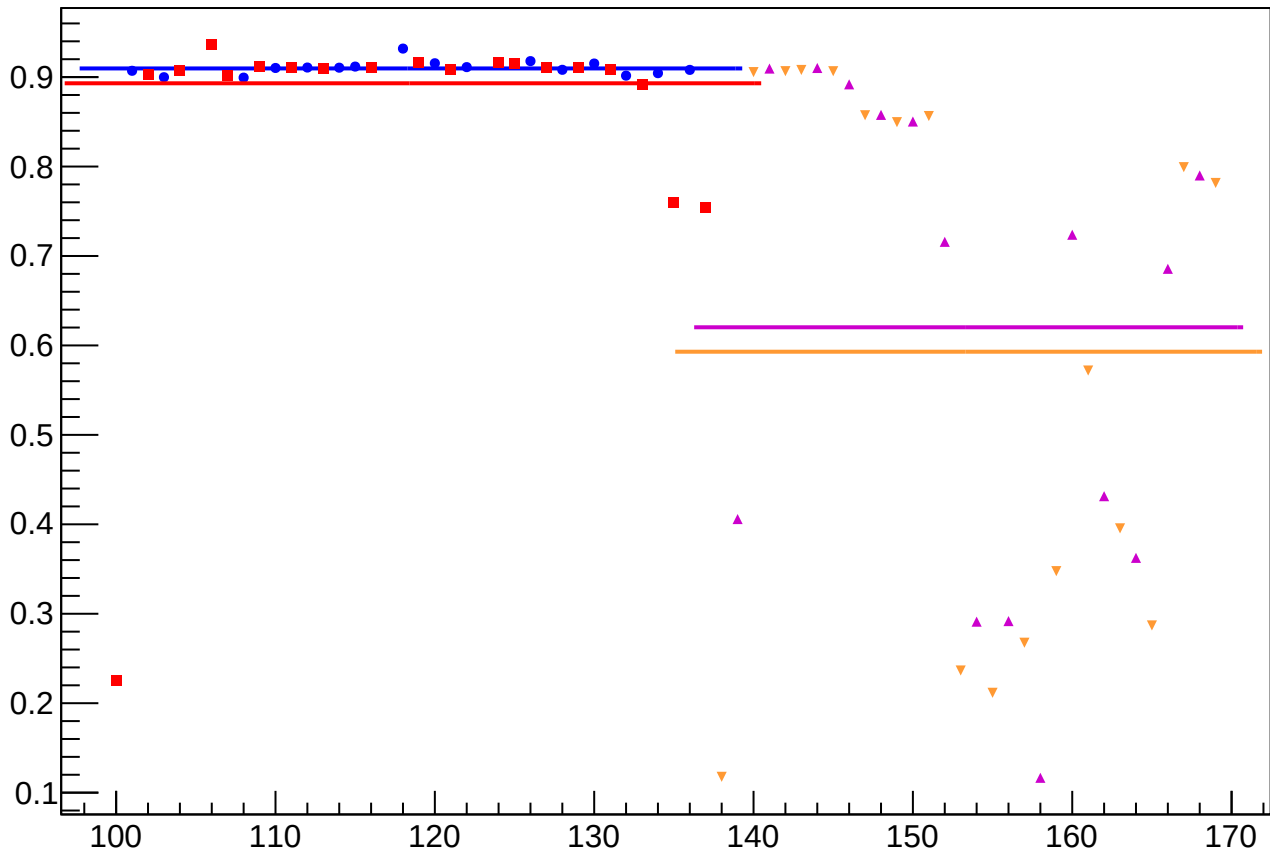
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1370782.0/34

In: 0.003 $\pm$ 0.000 χ^2 /NDF:2025595.8/30

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:2571586.3/35

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 4605111.0/66

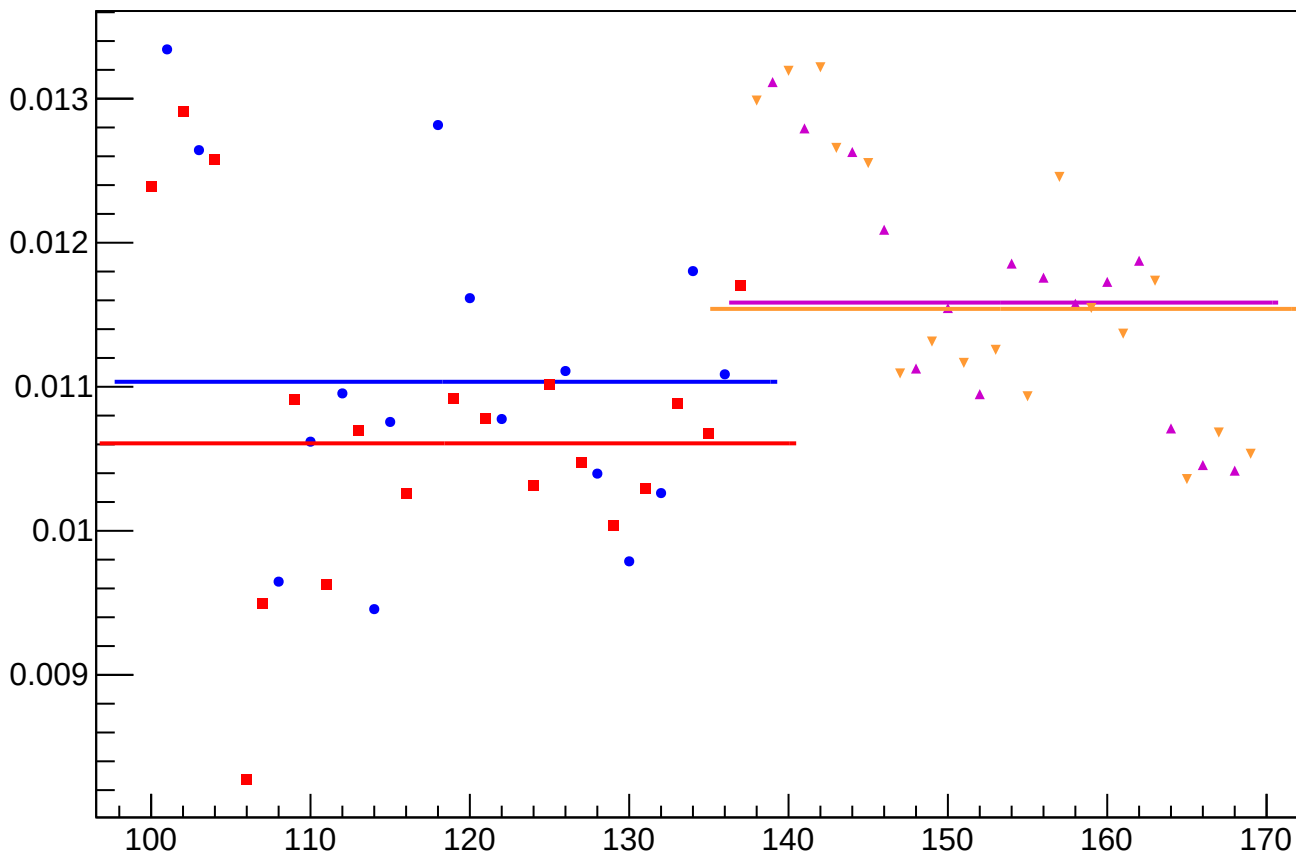
yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 0.910 ± 0.000 $\chi^2/\text{NDF}: 3133349.6/15$
 Left Out: 0.593 ± 0.000 $\chi^2/\text{NDF}: 7847591913.7/16$
 Right Out: 0.893 ± 0.000 $\chi^2/\text{NDF}: 327979021.4/18$
 Left In: 0.620 ± 0.000 $\chi^2/\text{NDF}: 5983614022.8/14$

Left: 0.606 ± 0.000 $\chi^2/\text{NDF}: 13865245590.0/31$
 Right: 0.901 ± 0.000 $\chi^2/\text{NDF}: 339373965.5/34$
 In: 0.734 ± 0.000 $\chi^2/\text{NDF}: 8858740860.8/30$
 Out: 0.714 ± 0.000 $\chi^2/\text{NDF}: 11625618519.8/35$
 All: 0.723 ± 0.000 $\chi^2/\text{NDF}: 20515090939.0/6$

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 130353.1/15

Left Out: 0.012+/-0.000 χ^2/NDF :136720.2/16

Right Out: 0.011+/-0.000 χ^2/NDF : 143947.4/18

Left In: 0.012+/-0.000 χ^2/NDF :103659.8/14

Left: 0.012+/-0.000 χ^2/NDF : 240554.7/31

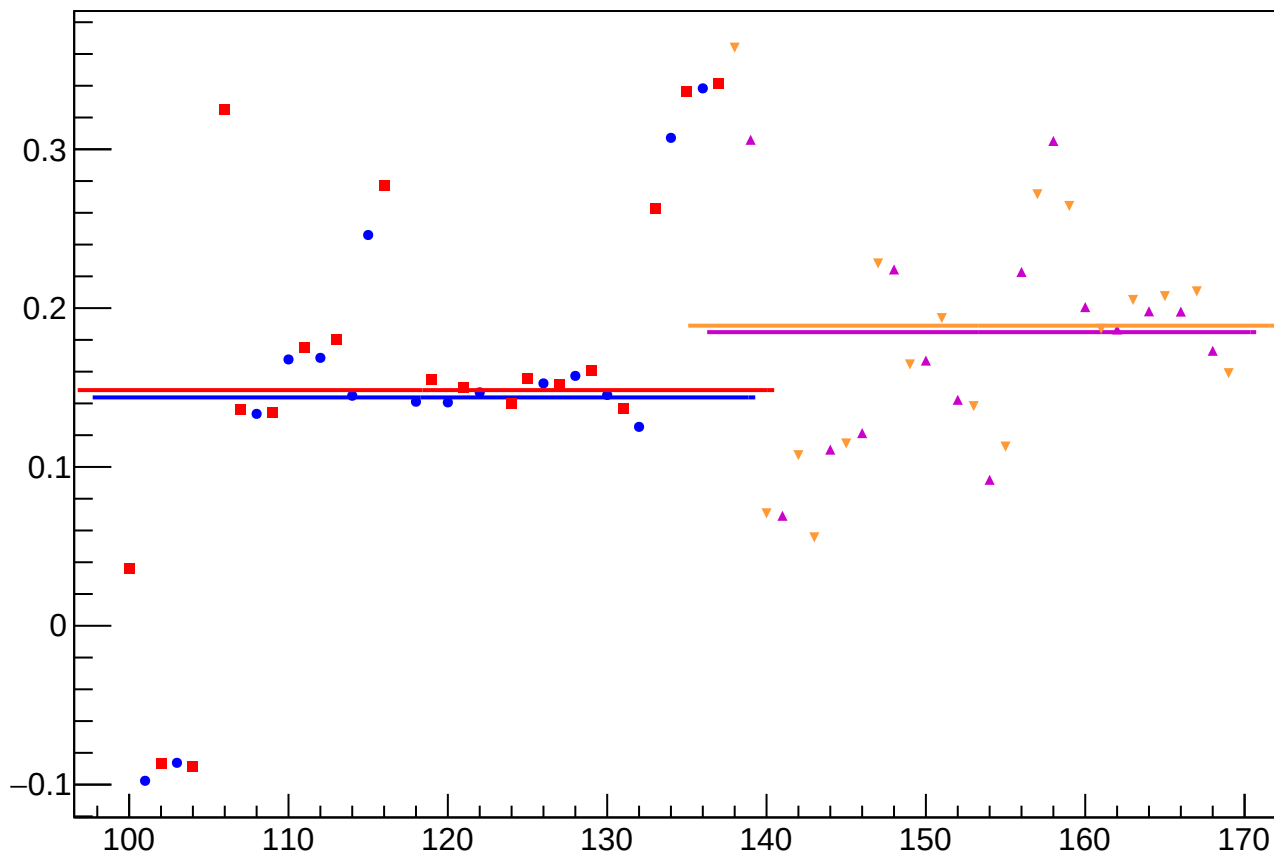
Right: 0.011+/-0.000 χ^2/NDF : 285253.7/34

In: 0.011+/-0.000 χ^2/NDF :254744.2/30

Out: 0.011+/-0.000 χ^2/NDF :347416.9/35

All: 0.011+/-0.000 χ^2/NDF : 608410.9/66

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.144 $\pm$ 0.000 χ^2 /NDF: 7867304536.4/15

Left Out: 0.189 $\pm$ 0.000 χ^2 /NDF: 6098584440.6/16

Right Out: 0.148 $\pm$ 0.000 χ^2 /NDF: 7128567107.5/18

Left In: 0.185 $\pm$ 0.000 χ^2 /NDF: 4431767942.7/14

Left: 0.187 $\pm$ 0.000 χ^2 /NDF: 10540483896.9/31

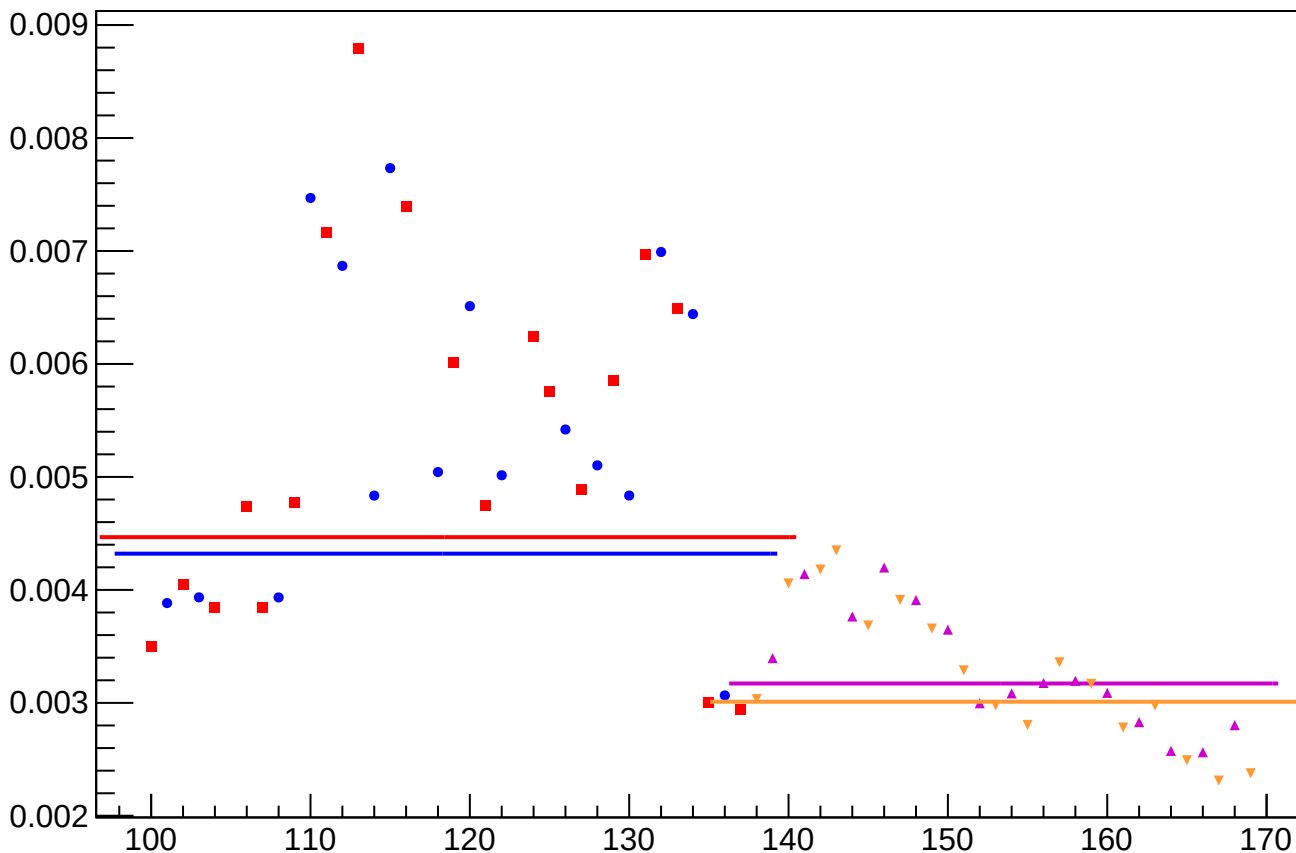
Right: 0.146 $\pm$ 0.000 χ^2 /NDF: 14999065697.1/34

In: 0.176 $\pm$ 0.000 χ^2 /NDF: 12705041461.2/30

Out: 0.182 $\pm$ 0.000 χ^2 /NDF: 13627668408.8/35

All: 0.179 $\pm$ 0.000 χ^2 /NDF: 26356209954.1/69

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 878343.4/15

Left Out: 0.003+/-0.000 χ^2/NDF :827330.2/16

Right Out: 0.004+/-0.000 χ^2/NDF : 1085759.3/18

Left In: 0.003+/-0.000 χ^2/NDF :484305.0/14

Left: 0.003+/-0.000 χ^2/NDF : 1343201.6/31

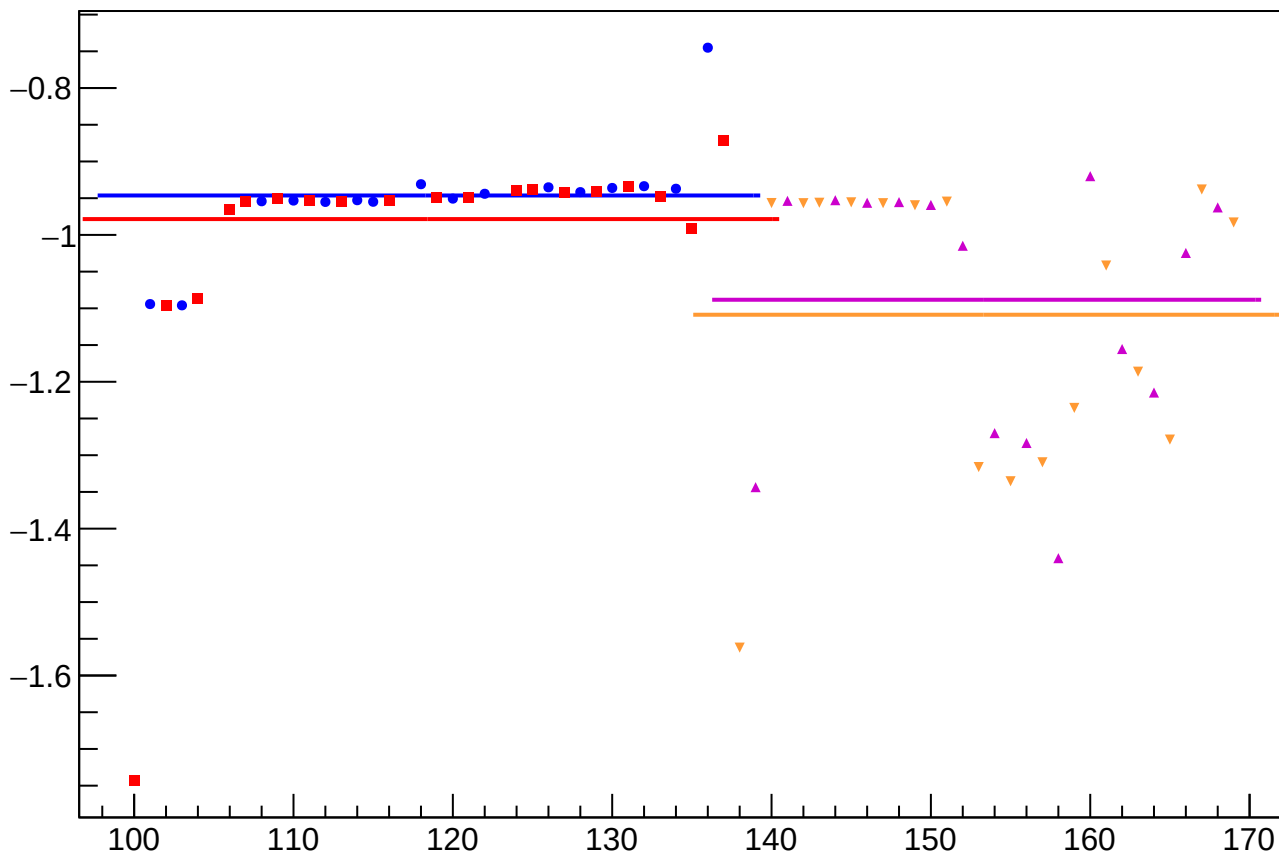
Right: 0.004+/-0.000 χ^2/NDF : 1970552.0/34

In: 0.003+/-0.000 χ^2/NDF :1997714.4/30

Out: 0.003+/-0.000 χ^2/NDF :2945255.1/35

All: 0.003+/-0.000 χ^2/NDF : 4974420.7/66

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -0.946 ± 0.000 $\chi^2/\text{NDF}: 404509465.5/15$

Left Out: -1.109 ± 0.000 $\chi^2/\text{NDF}: 3993391971.1/16$

Right Out: -0.978 ± 0.000 $\chi^2/\text{NDF}: 461081476.3/18$

Left In: -1.088 ± 0.000 $\chi^2/\text{NDF}: 3116759554.1/14$

Left: -1.099 ± 0.000 $\chi^2/\text{NDF}: 7134210577.3/31$

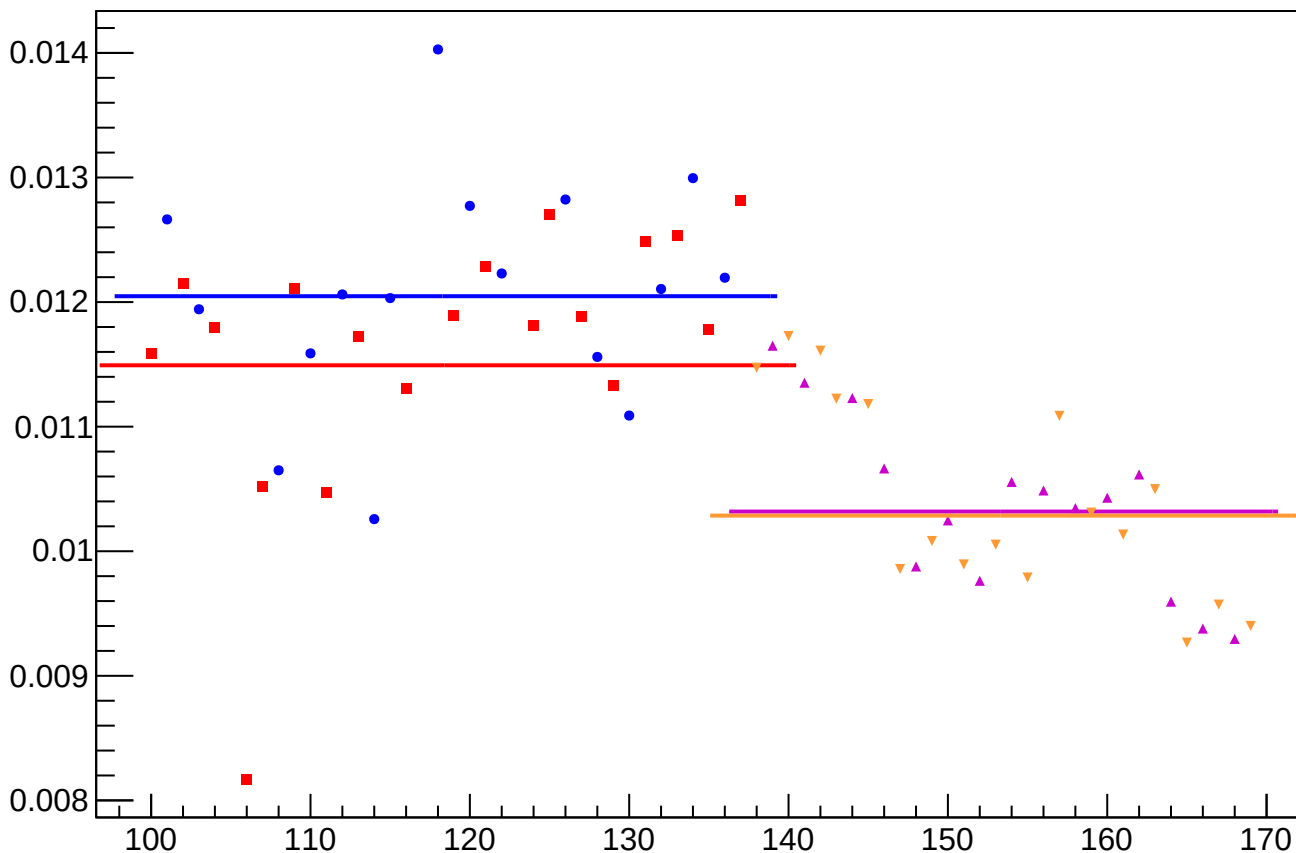
Right: -0.963 ± 0.000 $\chi^2/\text{NDF}: 891693396.9/34$

In: -1.046 ± 0.000 $\chi^2/\text{NDF}: 4190245477.3/30$

Out: -1.068 ± 0.000 $\chi^2/\text{NDF}: 5089086237.3/35$

All: -1.058 ± 0.000 $\chi^2/\text{NDF}: 9321328345.9/6$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 62476.3/15

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:127645.9/16

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 151309.4/18

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:97662.6/14

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 225430.0/31

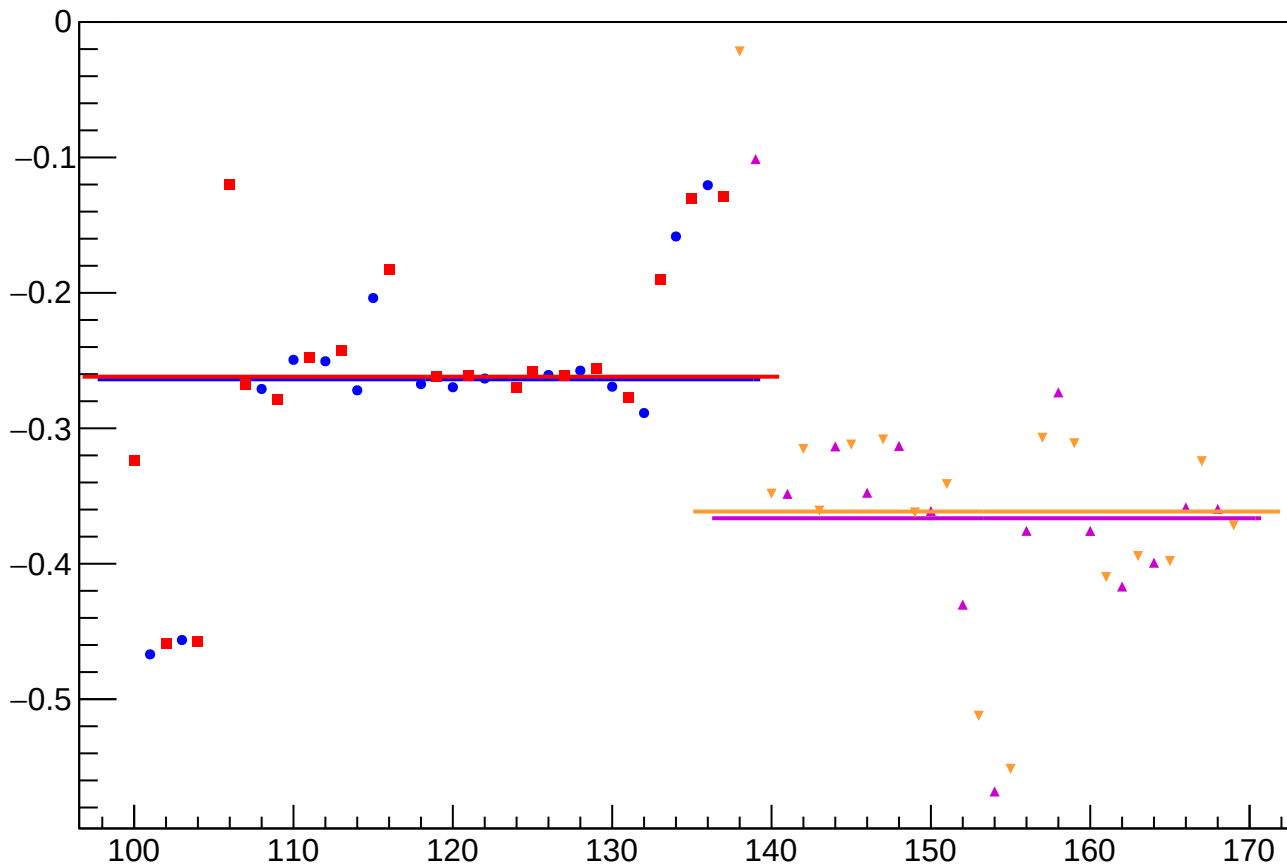
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 229327.8/34

In: 0.011 $\pm$ 0.000 χ^2 /NDF:358449.0/30

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:387857.4/35

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 751414.4/66

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.264+/-0.000 χ^2/NDF : 6106171444.3/15

Left Out: -0.361+/-0.000 χ^2/NDF : 11843979653.2/16

Right Out: -0.262+/-0.000 χ^2/NDF : 5250043427.3/18

Left In: -0.366+/-0.000 χ^2/NDF : 7553647388.4/14

Left: -0.364+/-0.000 χ^2/NDF : 19409210641.5/31

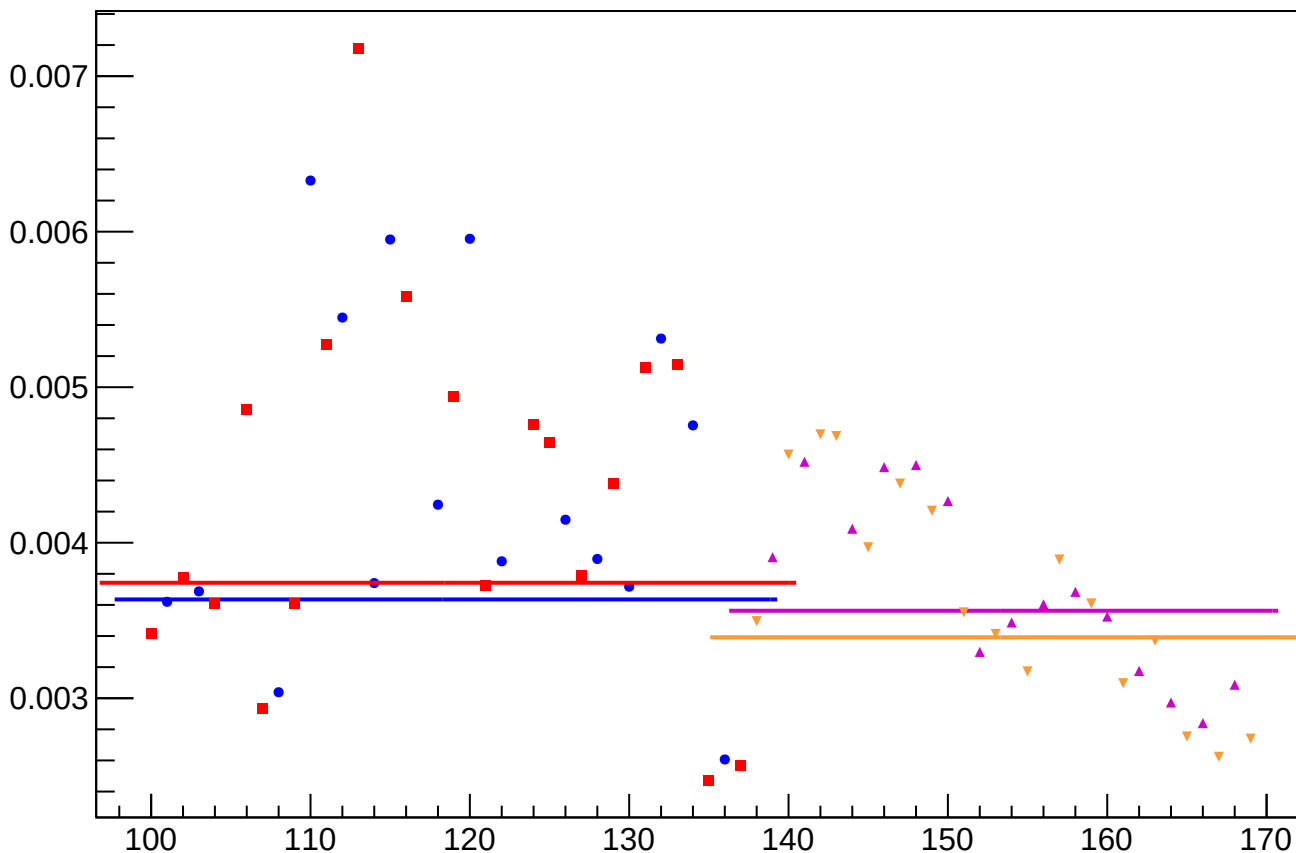
Right: -0.263+/-0.000 χ^2/NDF : 11357011784.3/34

In: -0.332+/-0.000 χ^2/NDF : 16717902993.8/30

Out: -0.332+/-0.000 χ^2/NDF : 20106790946.5/35

All: -0.332+/-0.000 χ^2/NDF : 36824721818.6/70

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 728598.9/15

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 762690.6/16

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 894189.4/18

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF: 465084.5/14

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 1255220.5/31

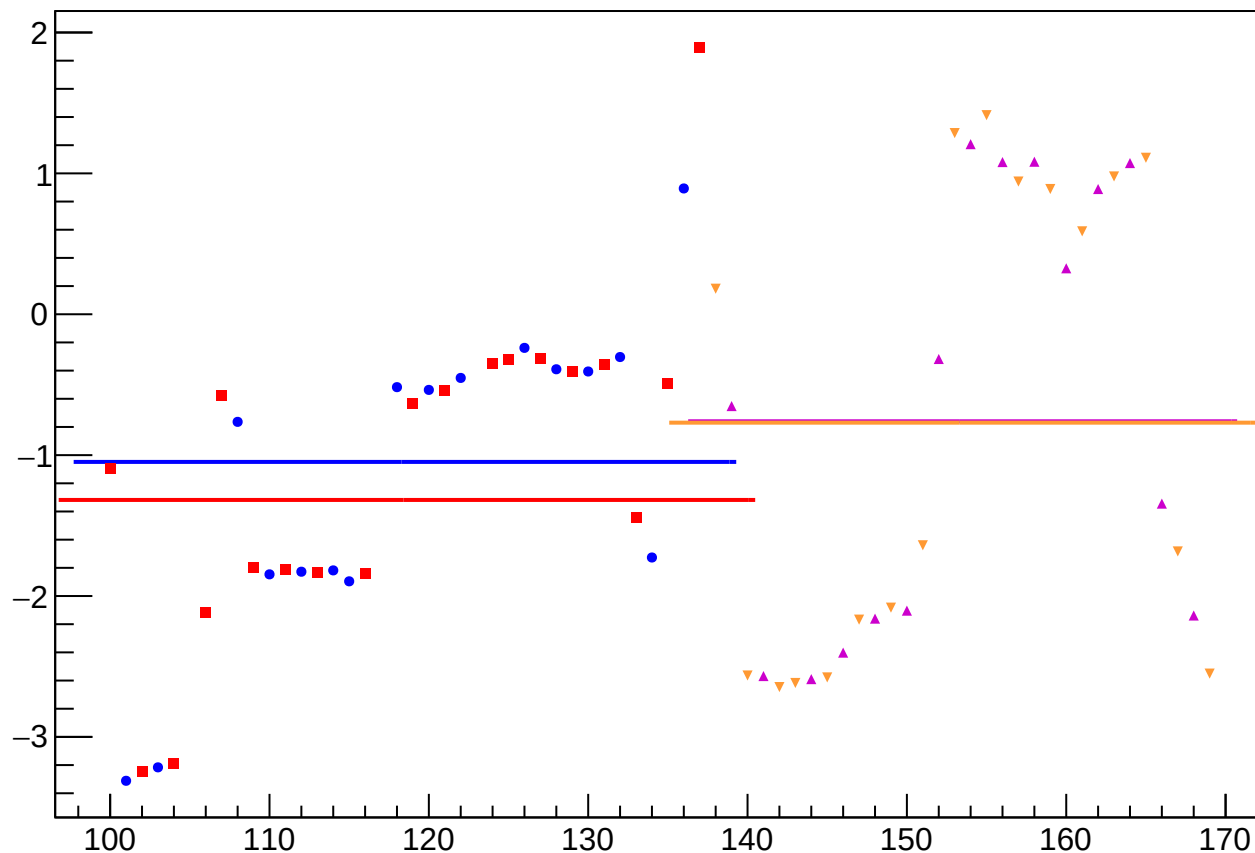
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 1627770.5/34

In: 0.004 $\pm$ 0.000 χ^2 /NDF: 1196756.5/30

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 1731494.6/35

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 2939957.7/66

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.048+/-0.000

χ^2/NDF : 2347020985.5/15

Left: -0.765+/-0.000

χ^2/NDF : 10982042427.6/31

Left Out: -0.769+/-0.000

χ^2/NDF : 6196152242.3/16

Right: -1.183+/-0.000

χ^2/NDF : 4244956360.2/34

Right Out: -1.318+/-0.000

χ^2/NDF : 1847995615.1/18

In: -0.873+/-0.000

χ^2/NDF : 7202014626.0/30

Out: -0.972+/-0.000

χ^2/NDF : 8304318602.2/35

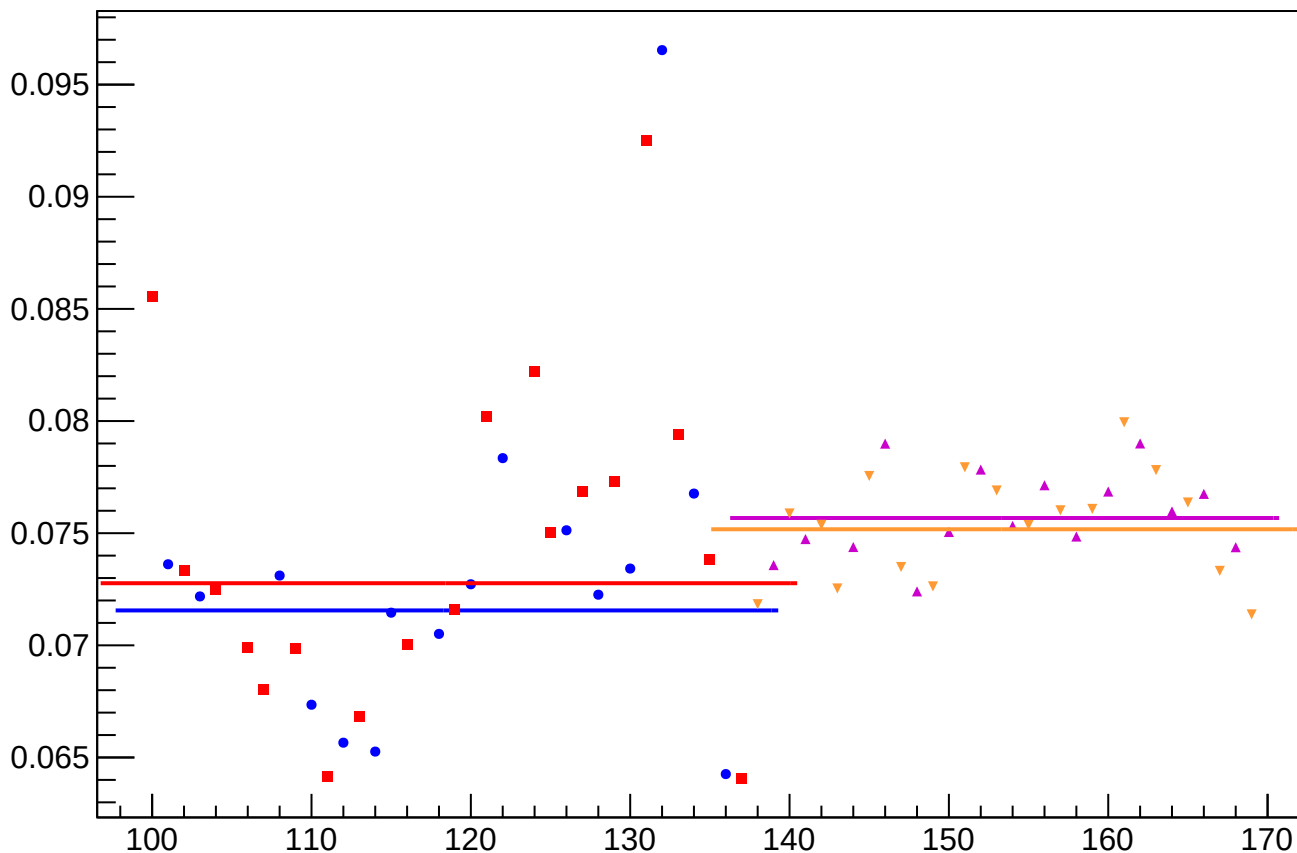
Left In: -0.760+/-0.000

χ^2/NDF : 4785782453.8/14

All: -0.924+/-0.000

χ^2/NDF : 15524113575.3/70

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.072+/-0.000 χ^2/NDF : 101238.7/15

Left Out: 0.075+/-0.000 χ^2/NDF :26932.2/16

Right Out: 0.073+/-0.000 χ^2/NDF : 96874.2/18

Left In: 0.076+/-0.000 χ^2/NDF :14646.0/14

Left: 0.075+/-0.000 χ^2/NDF : 42140.0/31

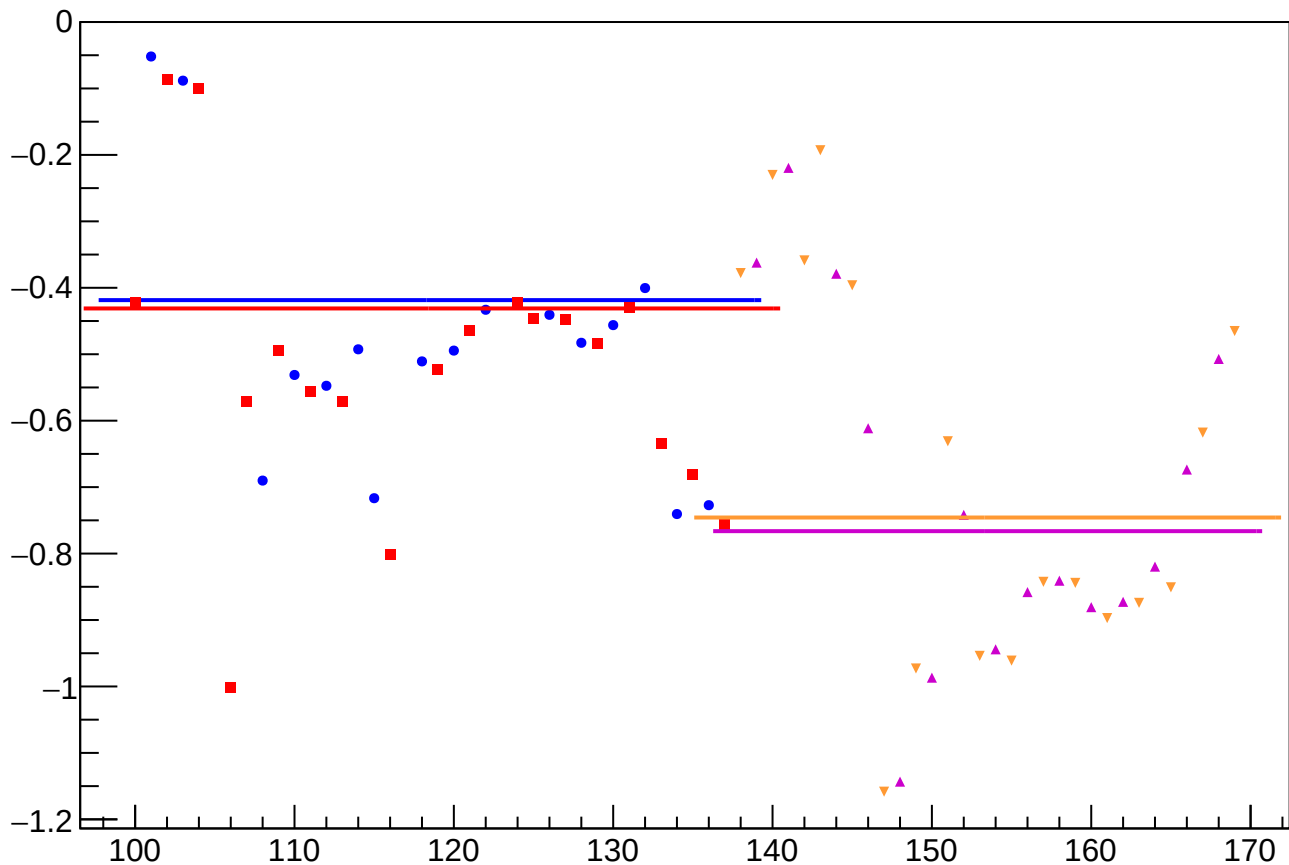
Right: 0.072+/-0.000 χ^2/NDF : 200129.9/34

In: 0.074+/-0.000 χ^2/NDF :144140.7/30

Out: 0.074+/-0.000 χ^2/NDF :133809.9/35

All: 0.074+/-0.000 χ^2/NDF : 278133.3/66

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.419 ± 0.000 χ^2/NDF : 3072147227.9/15

Left Out: -0.746 ± 0.000 χ^2/NDF : 17089043410.2/16

Right Out: -0.431 ± 0.000 χ^2/NDF : 3196655095.4/18

Left In: -0.766 ± 0.000 χ^2/NDF : 11932135472.7/14

Left: -0.755 ± 0.000 χ^2/NDF : 29079794673.0/31

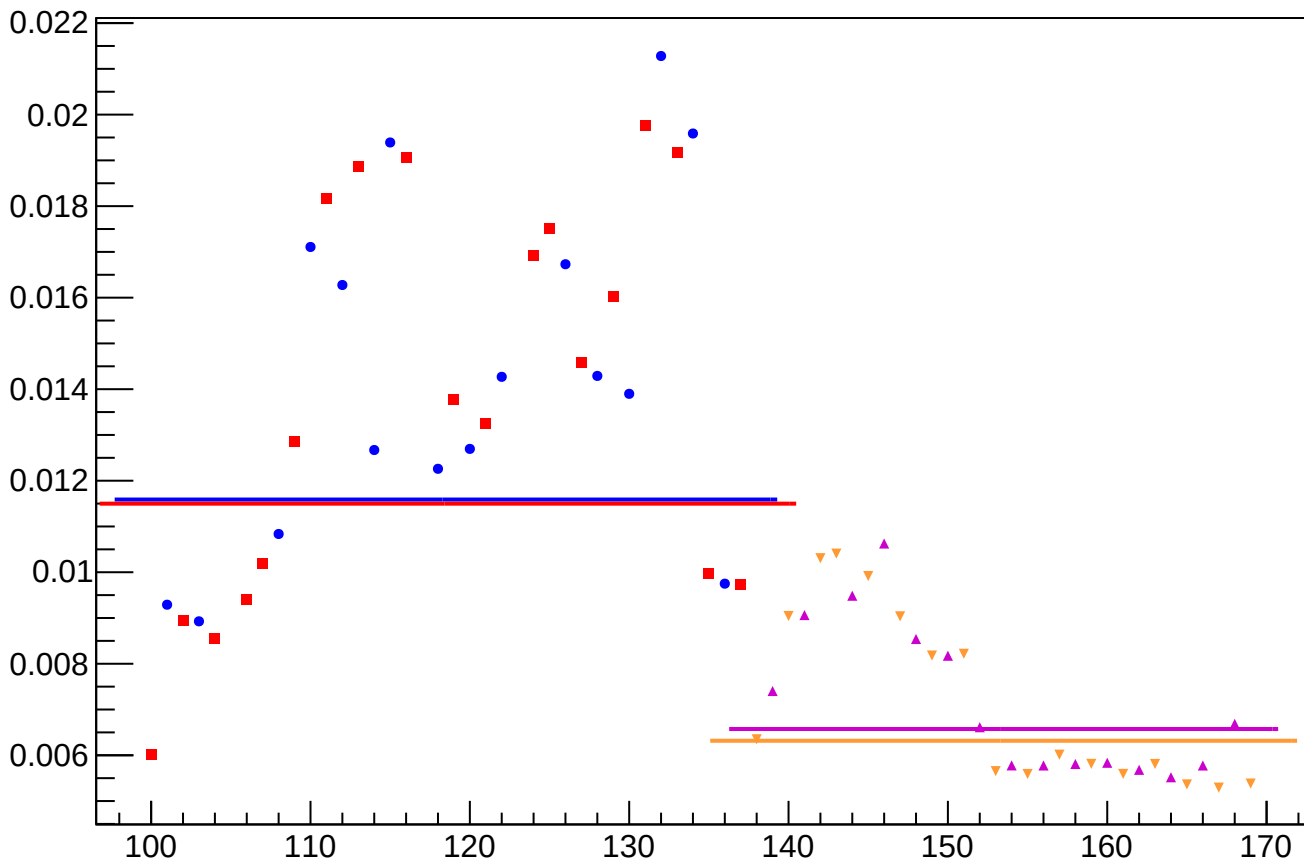
Right: -0.425 ± 0.000 χ^2/NDF : 6272338159.2/34

In: -0.715 ± 0.000 χ^2/NDF : 19583052871.2/30

Out: -0.705 ± 0.000 χ^2/NDF : 24195798621.0/35

All: -0.710 ± 0.000 χ^2/NDF : 43797048036.2/70

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 786260.7/15

Left Out: 0.006+/-0.000 χ^2/NDF :1212749.1/16

Right Out: 0.011+/-0.000 χ^2/NDF : 1164657.0/18

Left In: 0.007+/-0.000 χ^2/NDF :875336.6/14

Left: 0.006+/-0.000 χ^2/NDF : 2106429.4/31

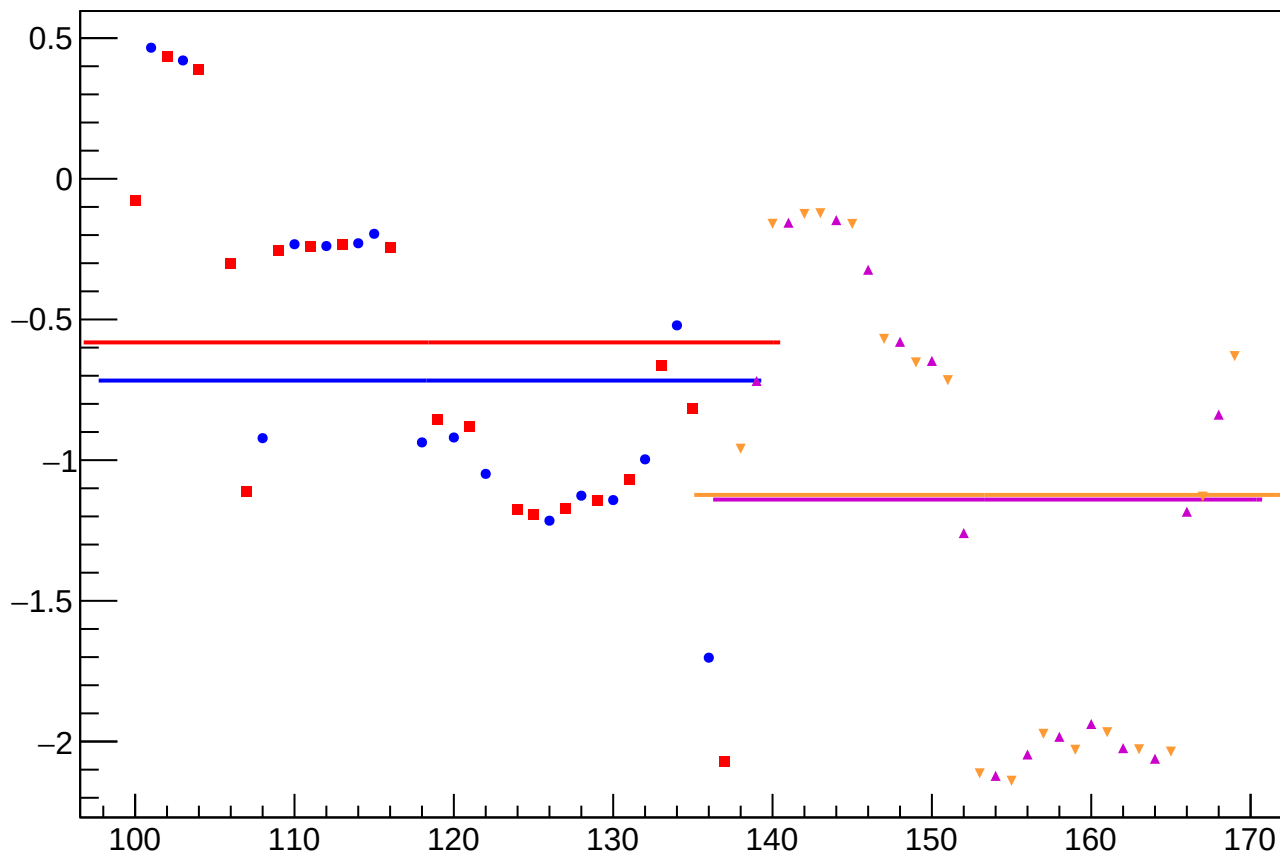
Right: 0.012+/-0.000 χ^2/NDF : 1951282.6/34

In: 0.007+/-0.000 χ^2/NDF :3566055.0/30

Out: 0.007+/-0.000 χ^2/NDF :4497788.3/35

All: 0.007+/-0.000 χ^2/NDF : 8096053.1/66

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.717 ± 0.000 $\chi^2/\text{NDF}: 437423792.4/15$

Left Out: -1.124 ± 0.000 $\chi^2/\text{NDF}: 1102039344.2/16$

Right Out: -0.582 ± 0.000 $\chi^2/\text{NDF}: 342062039.8/18$

Left In: -1.140 ± 0.000 $\chi^2/\text{NDF}: 914865048.3/14$

Left: -1.131 ± 0.000 $\chi^2/\text{NDF}: 2017136531.8/31$

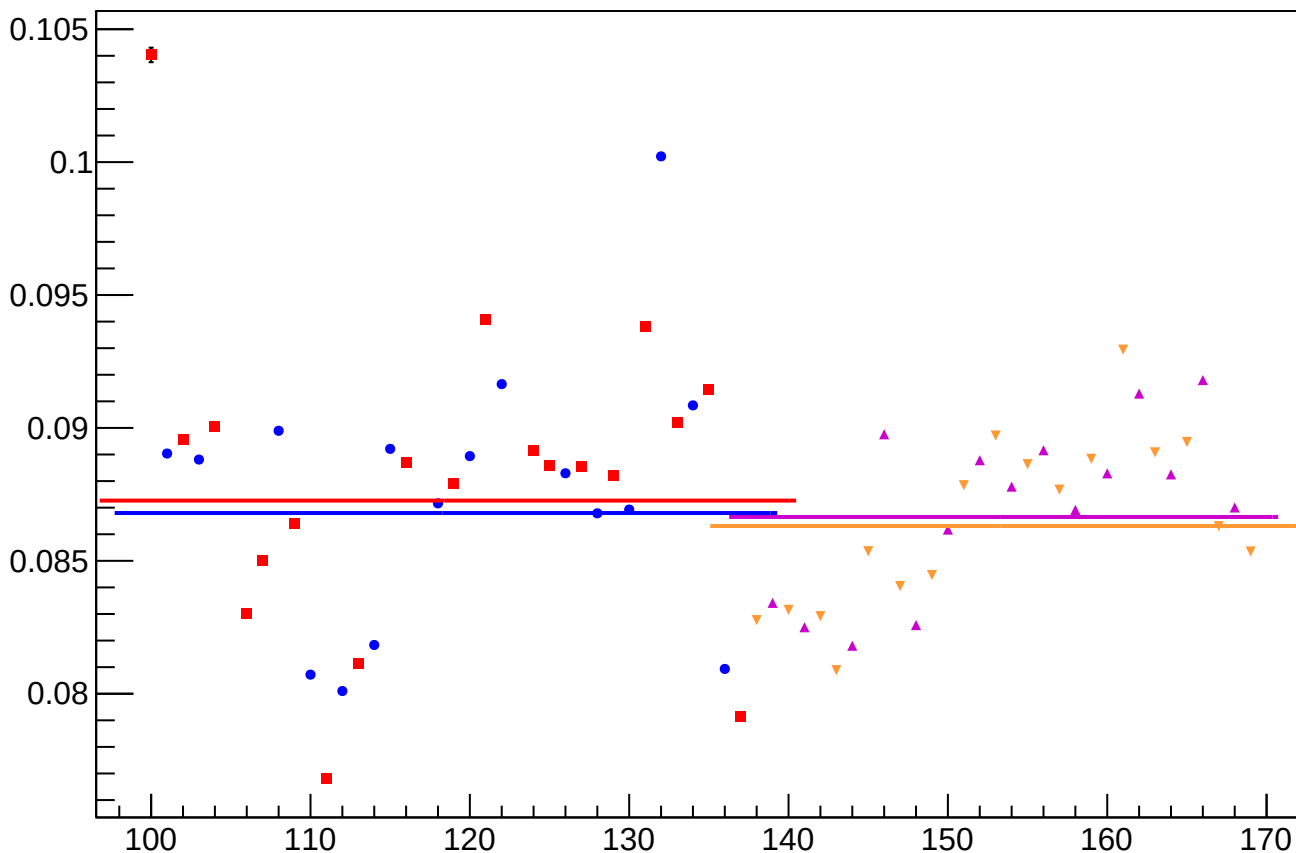
Right: -0.648 ± 0.000 $\chi^2/\text{NDF}: 788347373.4/34$

In: -0.985 ± 0.000 $\chi^2/\text{NDF}: 1459961404.3/30$

Out: -0.932 ± 0.000 $\chi^2/\text{NDF}: 1629924239.5/35$

All: -0.958 ± 0.000 $\chi^2/\text{NDF}: 3093533975.4/6$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.087+/-0.000 χ^2/NDF : 43575.8/15

Left Out: 0.086+/-0.000 χ^2/NDF :33570.6/16

Right Out: 0.087+/-0.000 χ^2/NDF : 46163.9/18

Left In: 0.087+/-0.000 χ^2/NDF :30710.8/14

Left: 0.086+/-0.000 χ^2/NDF : 64479.9/31

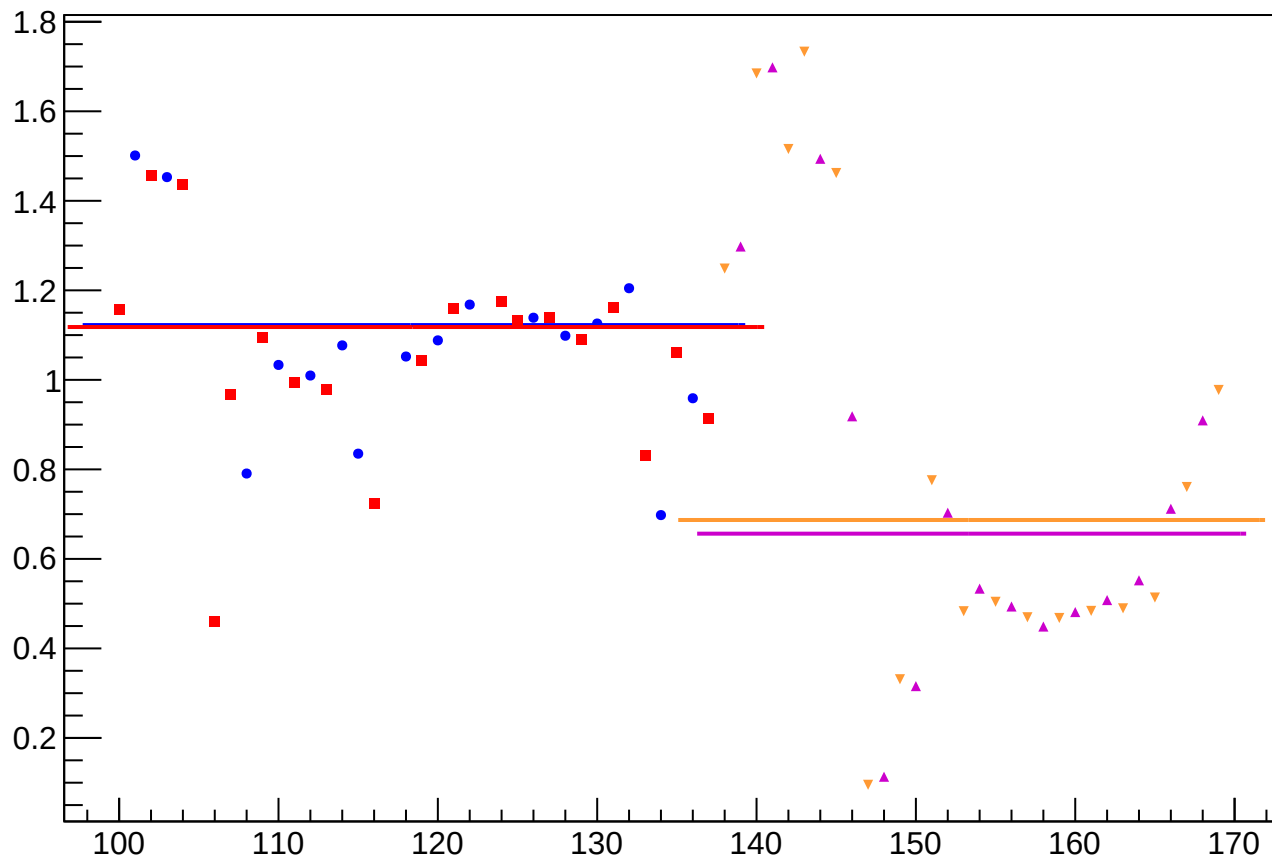
Right: 0.087+/-0.000 χ^2/NDF : 89950.5/34

In: 0.087+/-0.000 χ^2/NDF :74313.2/30

Out: 0.087+/-0.000 χ^2/NDF :80892.3/35

All: 0.087+/-0.000 χ^2/NDF : 155214.3/66

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.122 $\pm$ 0.000 χ^2 /NDF: 1454303379.1/15

Left Out: 0.687 $\pm$ 0.000 χ^2 /NDF: 29778303534.5/16

Right Out: 1.118 $\pm$ 0.000 χ^2 /NDF: 1570269350.9/18

Left In: 0.656 $\pm$ 0.000 χ^2 /NDF: 22544194836.5/14

Left: 0.673 $\pm$ 0.000 χ^2 /NDF: 52412576633.7/31

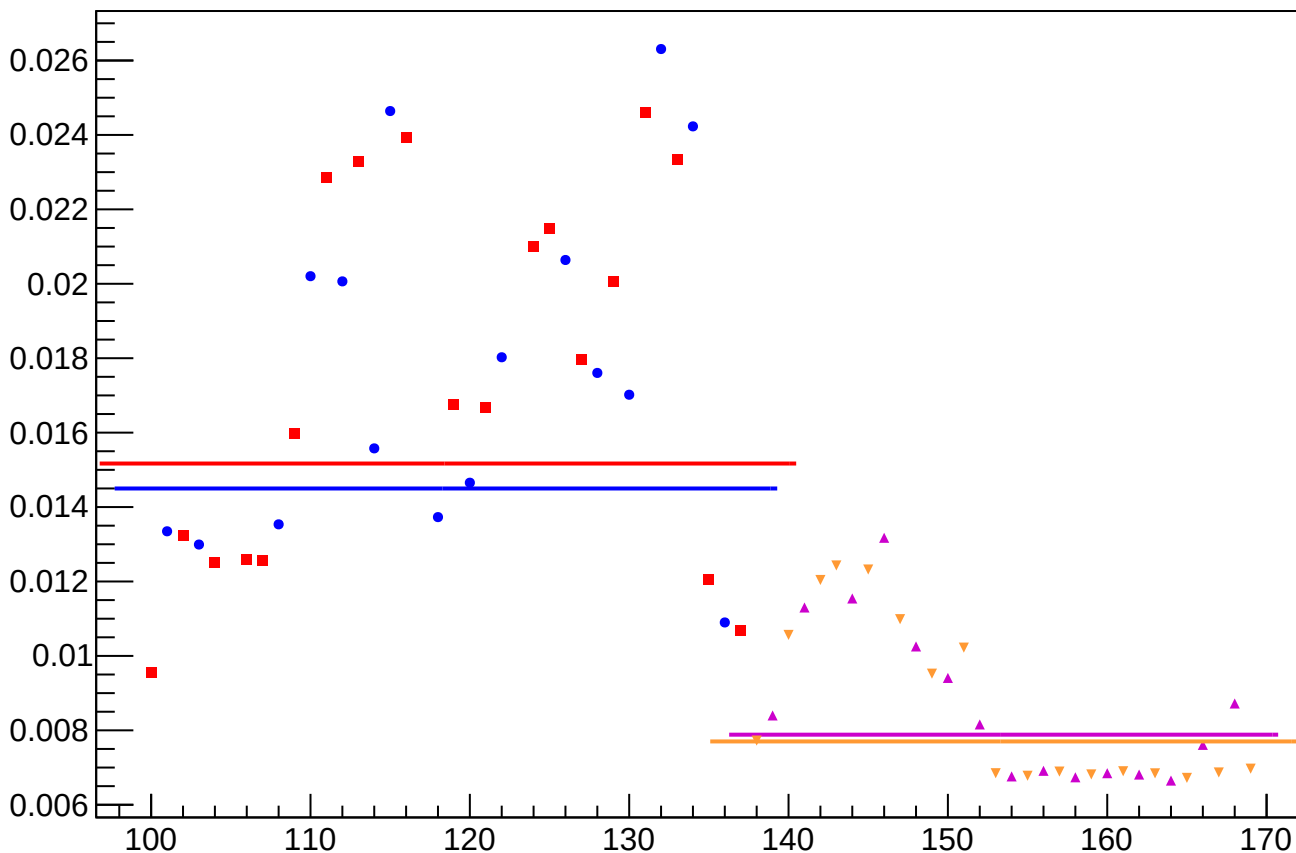
Right: 1.120 $\pm$ 0.000 χ^2 /NDF: 3024831149.0/34

In: 0.720 $\pm$ 0.000 χ^2 /NDF: 29329035498.9/30

Out: 0.736 $\pm$ 0.000 χ^2 /NDF: 35737636482.5/35

All: 0.728 $\pm$ 0.000 χ^2 /NDF: 65096688416.1/6

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 710345.3/15

Left Out: 0.008+/-0.000 χ^2/NDF :1131837.9/16

Right Out: 0.015+/-0.000 χ^2/NDF : 864637.6/18

Left In: 0.008+/-0.000 χ^2/NDF :949024.1/14

Left: 0.008+/-0.000 χ^2/NDF : 2087228.0/31

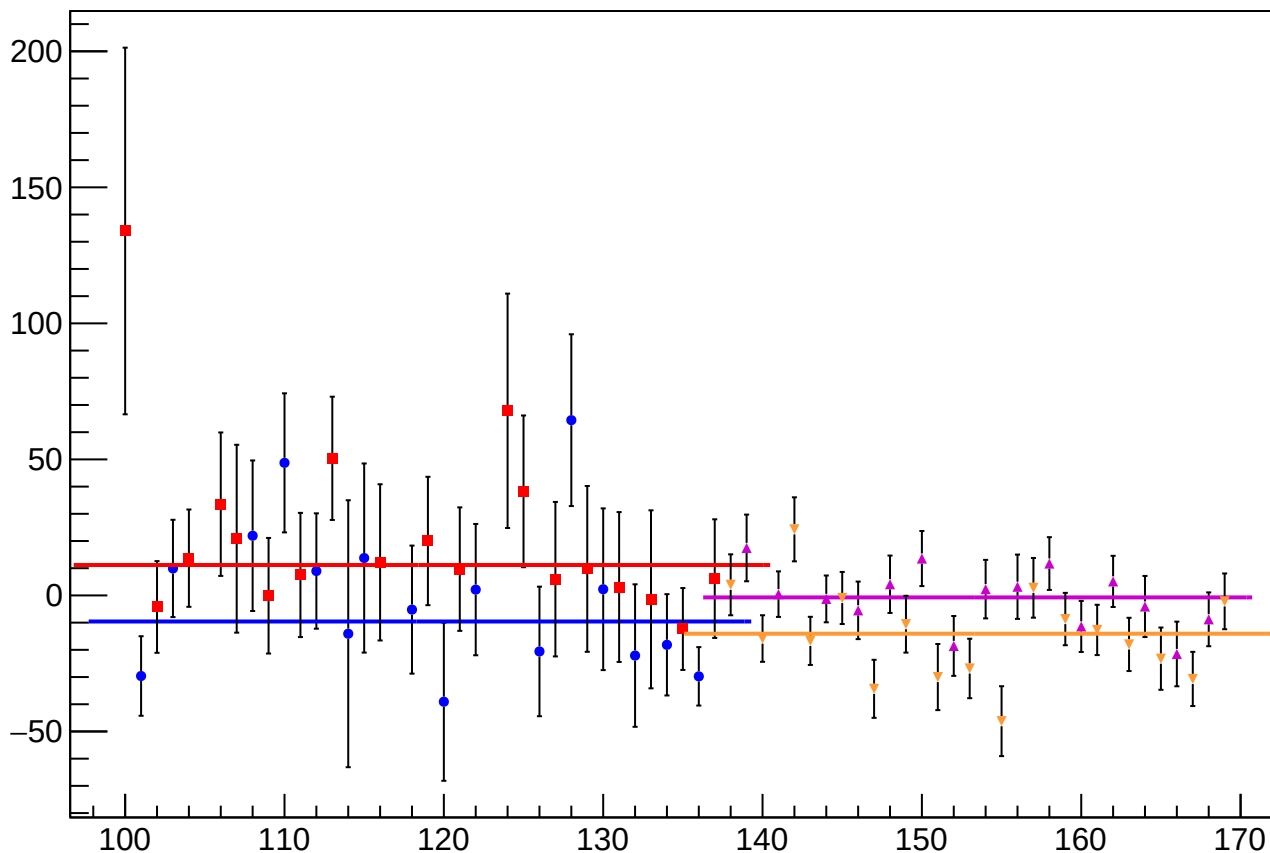
Right: 0.015+/-0.000 χ^2/NDF : 1587355.3/34

In: 0.009+/-0.000 χ^2/NDF :3808151.1/30

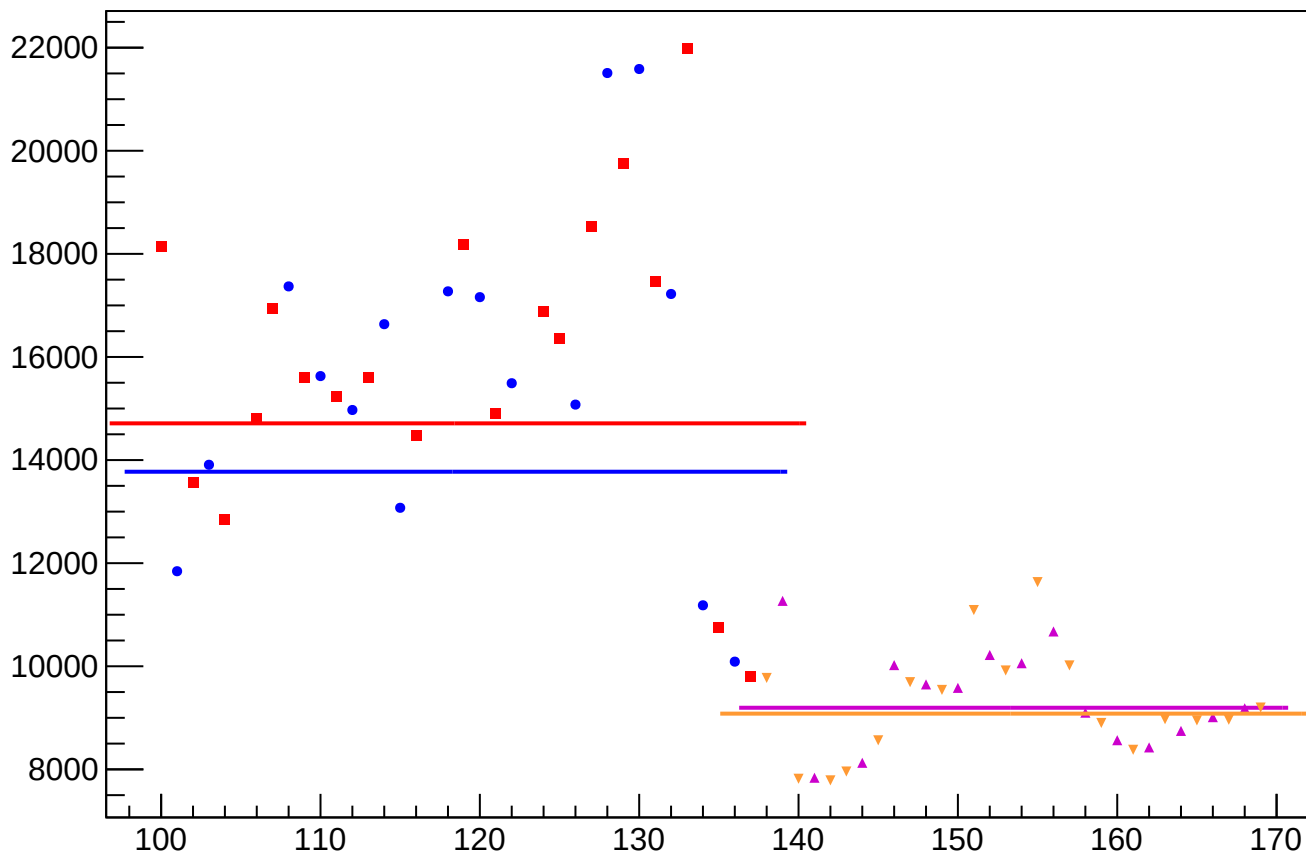
Out: 0.009+/-0.000 χ^2/NDF :4630588.0/35

All: 0.009+/-0.000 χ^2/NDF : 8450161.2/66

diff_bpm4aX_mean vs Slug, Sign Corrected



diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 13773.886 $\pm$ 3.741 χ^2 /NDF: 747586.2/15

Left Out: 9081.192 $\pm$ 1.767 χ^2 /NDF: 297051.1/16

Right Out: 14712.201 $\pm$ 3.887 χ^2 /NDF: 557305.5/18

Left In: 9195.284 $\pm$ 1.859 χ^2 /NDF: 247315.9/14

Left: 9135.344 $\pm$ 1.281 χ^2 /NDF: 546346.5/31

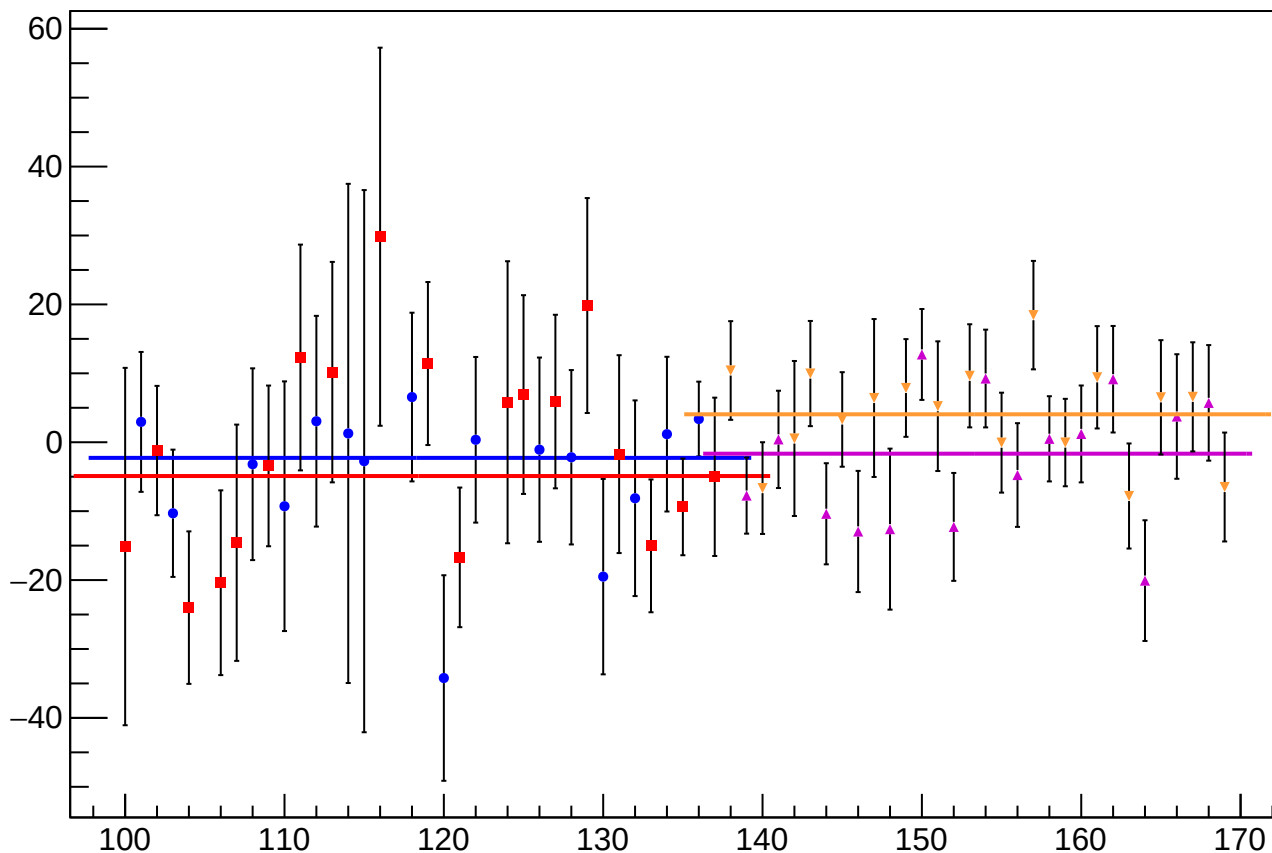
Right: 14225.090 $\pm$ 2.695 χ^2 /NDF: 1335141.9/34

In: 10101.755 $\pm$ 1.665 χ^2 /NDF: 2196217.8/30

Out: 10045.277 $\pm$ 1.608 χ^2 /NDF: 2593635.6/35

All: 10072.546 $\pm$ 1.157 χ^2 /NDF: 4790448.8/66

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: -2.267 ± 2.922 χ^2/NDF : 9.3/15

Left Out: 4.055 ± 1.867 χ^2/NDF : 14.0/16

Right Out: -4.904 ± 2.836 χ^2/NDF : 17.6/18

Left In: -1.661 ± 1.920 χ^2/NDF : 22.2/14

Left: 1.277 ± 1.339 χ^2/NDF : 40.7/31

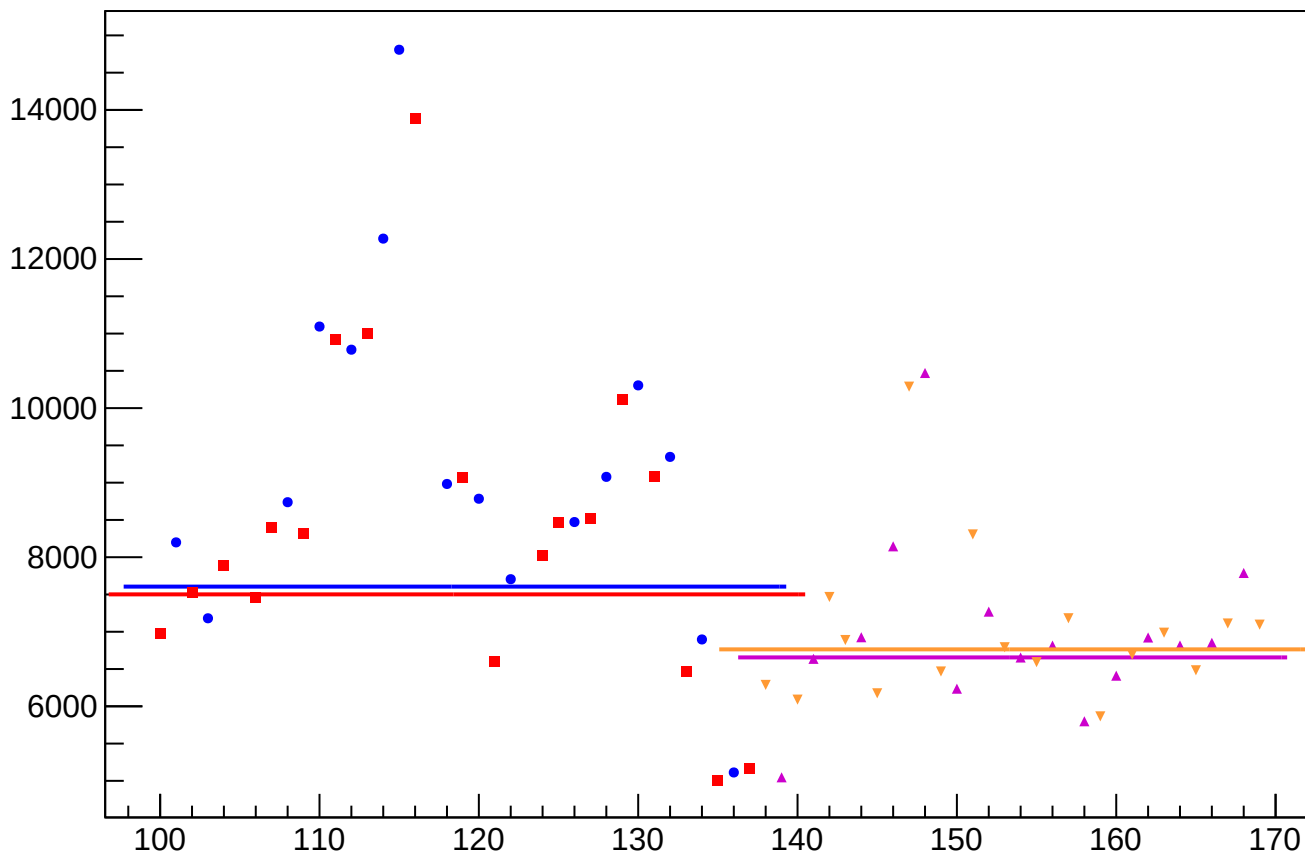
Right: -3.625 ± 2.035 χ^2/NDF : 27.3/34

In: -1.844 ± 1.605 χ^2/NDF : 31.5/30

Out: 1.346 ± 1.559 χ^2/NDF : 38.5/35

All: -0.203 ± 1.118 χ^2/NDF : 72.1/66

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 7605.700 ± 2.066 $\chi^2/\text{NDF}: 891494.3/15$

Left Out: 6763.834 ± 1.320 $\chi^2/\text{NDF}: 357448.9/16$

Right Out: 7501.522 ± 2.005 $\chi^2/\text{NDF}: 823557.5/18$

Left In: 6655.837 ± 1.358 $\chi^2/\text{NDF}: 545862.5/14$

Left: 6711.361 ± 0.946 $\chi^2/\text{NDF}: 906563.8/31$

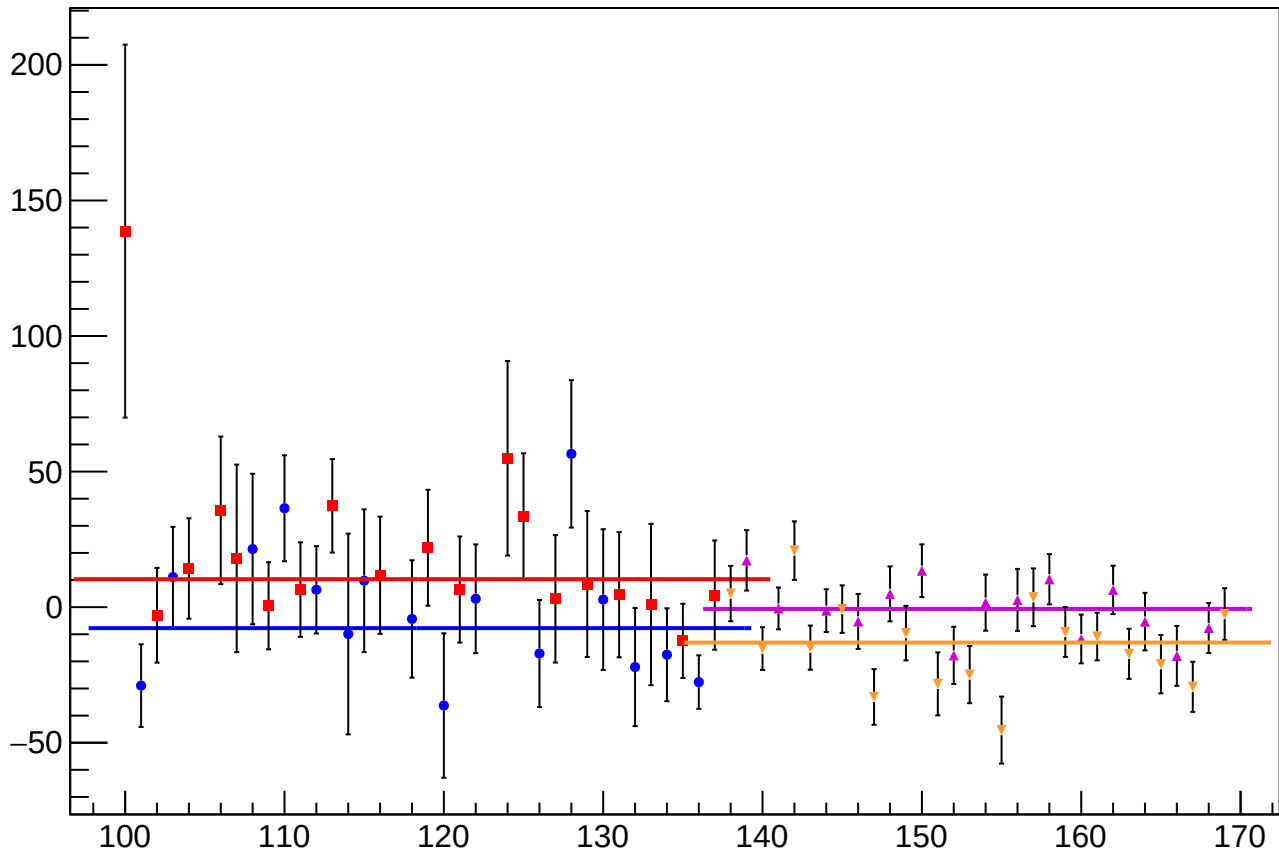
Right: 7552.053 ± 1.439 $\chi^2/\text{NDF}: 1716360.9/34$

In: 6942.328 ± 1.135 $\chi^2/\text{NDF}: 1584953.2/30$

Out: 6986.842 ± 1.103 $\chi^2/\text{NDF}: 1275423.0/35$

All: 6965.225 ± 0.791 $\chi^2/\text{NDF}: 2861167.8/66$

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.741 ± 4.748 χ^2/NDF : 22.7/15

Left Out: -13.046 ± 2.347 χ^2/NDF : 36.6/16

Right Out: 10.307 ± 4.840 χ^2/NDF : 13.9/18

Left In: -0.655 ± 2.482 χ^2/NDF : 14.7/14

Left: -7.195 ± 1.706 χ^2/NDF : 64.5/31

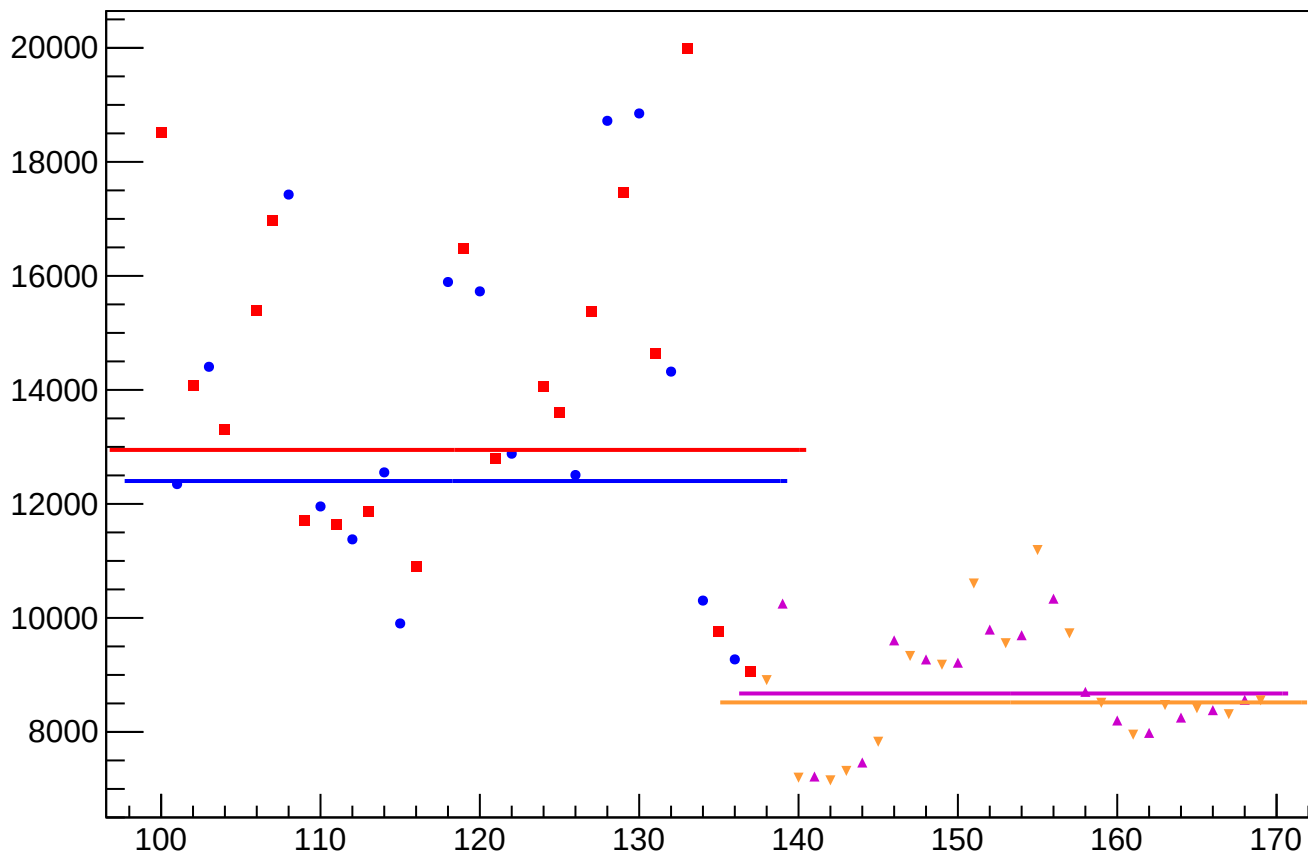
Right: 1.111 ± 3.389 χ^2/NDF : 43.7/34

In: -2.176 ± 2.200 χ^2/NDF : 39.2/30

Out: -8.598 ± 2.112 χ^2/NDF : 69.4/35

All: -5.517 ± 1.523 χ^2/NDF : 113.0/66

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 12401.769+/-3.357 χ^2/NDF : 678310.8/15

Left Out: 8517.755+/-1.660 χ^2/NDF : 381356.4/16

Right Out: 12947.255+/-3.422 χ^2/NDF : 555198.3/18

Left In: 8674.476+/-1.755 χ^2/NDF : 295244.4/14

Left: 8591.753+/-1.206 χ^2/NDF : 680809.7/31

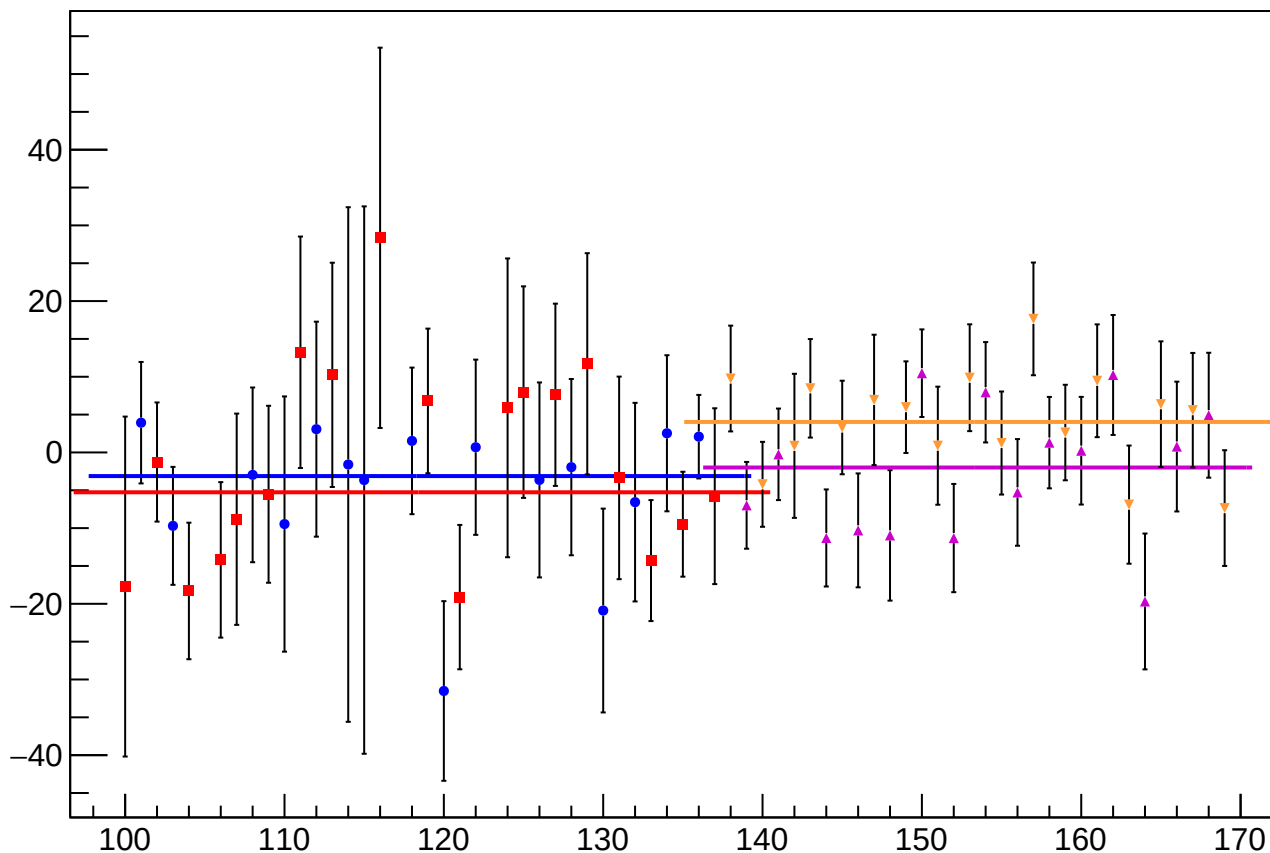
Right: 12669.304+/-2.397 χ^2/NDF : 1246455.4/34

In: 9474.387+/-1.555 χ^2/NDF : 1941502.8/30

Out: 9361.401+/-1.494 χ^2/NDF : 2292799.3/35

All: 9415.603+/-1.077 χ^2/NDF : 4237047.6/66

diff_bpm4eY_mean vs Slug, Sign Corrected



Left: 1.155 $\pm$ 1.242 χ^2/NDF : 40.3/31

Right: -4.236 $\pm$ 1.840 χ^2/NDF : 28.1/34

In: -2.348 $\pm$ 1.489 χ^2/NDF : 32.5/30

Out: 1.132 $\pm$ 1.426 χ^2/NDF : 38.9/35

All: -0.533 $\pm$ 1.030 χ^2/NDF : 74.3/66

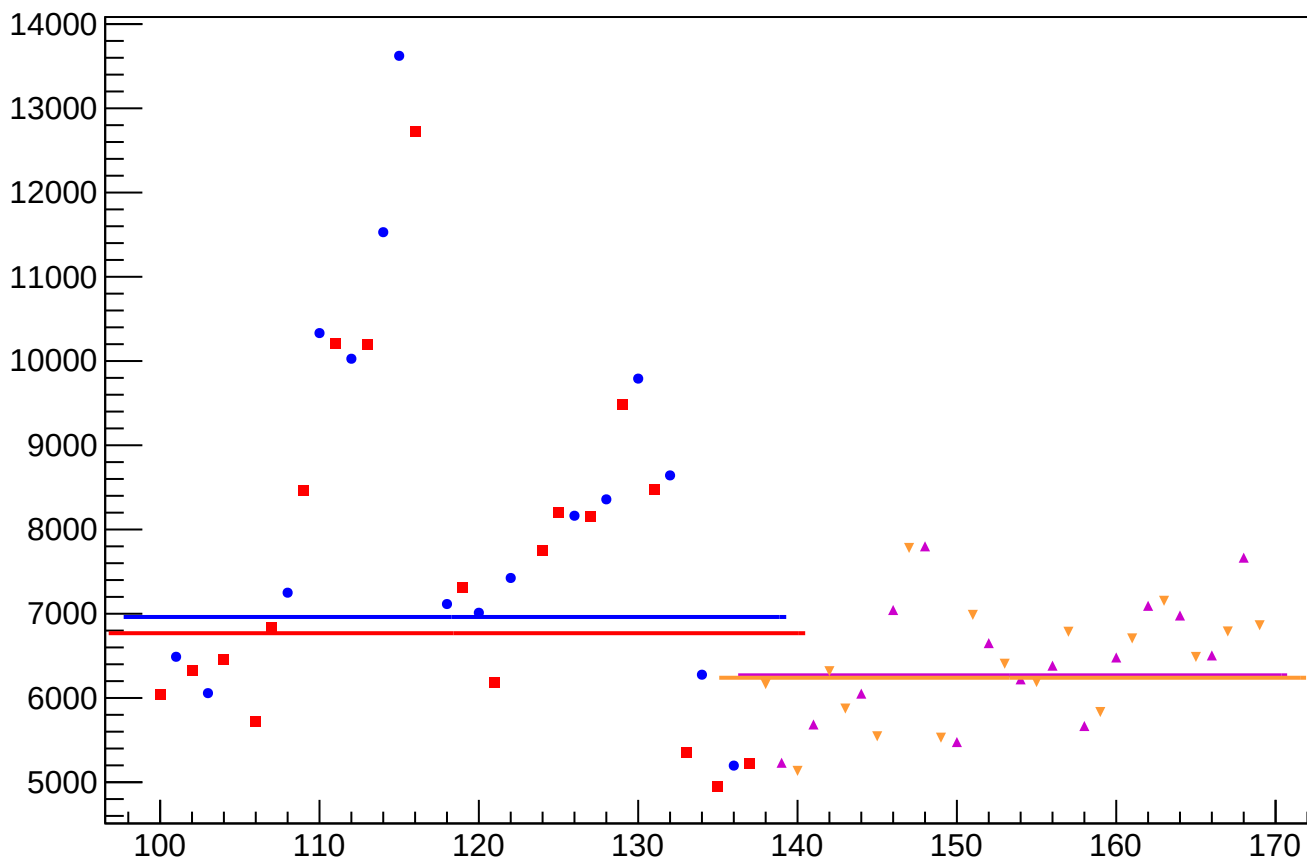
Right In: -3.123 $\pm$ 2.656 χ^2/NDF : 10.9/15

Left Out: 4.030 $\pm$ 1.719 χ^2/NDF : 12.9/16

Right Out: -5.265 $\pm$ 2.553 χ^2/NDF : 16.9/18

Left In: -1.993 $\pm$ 1.798 χ^2/NDF : 21.5/14

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 6961.606+/-1.878 χ^2/NDF : 696410.4/15

Left Out: 6240.226+/-1.215 χ^2/NDF : 300675.1/16

Right Out: 6768.993+/-1.805 χ^2/NDF : 798105.0/18

Left In: 6268.809+/-1.272 χ^2/NDF : 329244.9/14

Left: 6253.871+/-0.879 χ^2/NDF : 630184.1/31

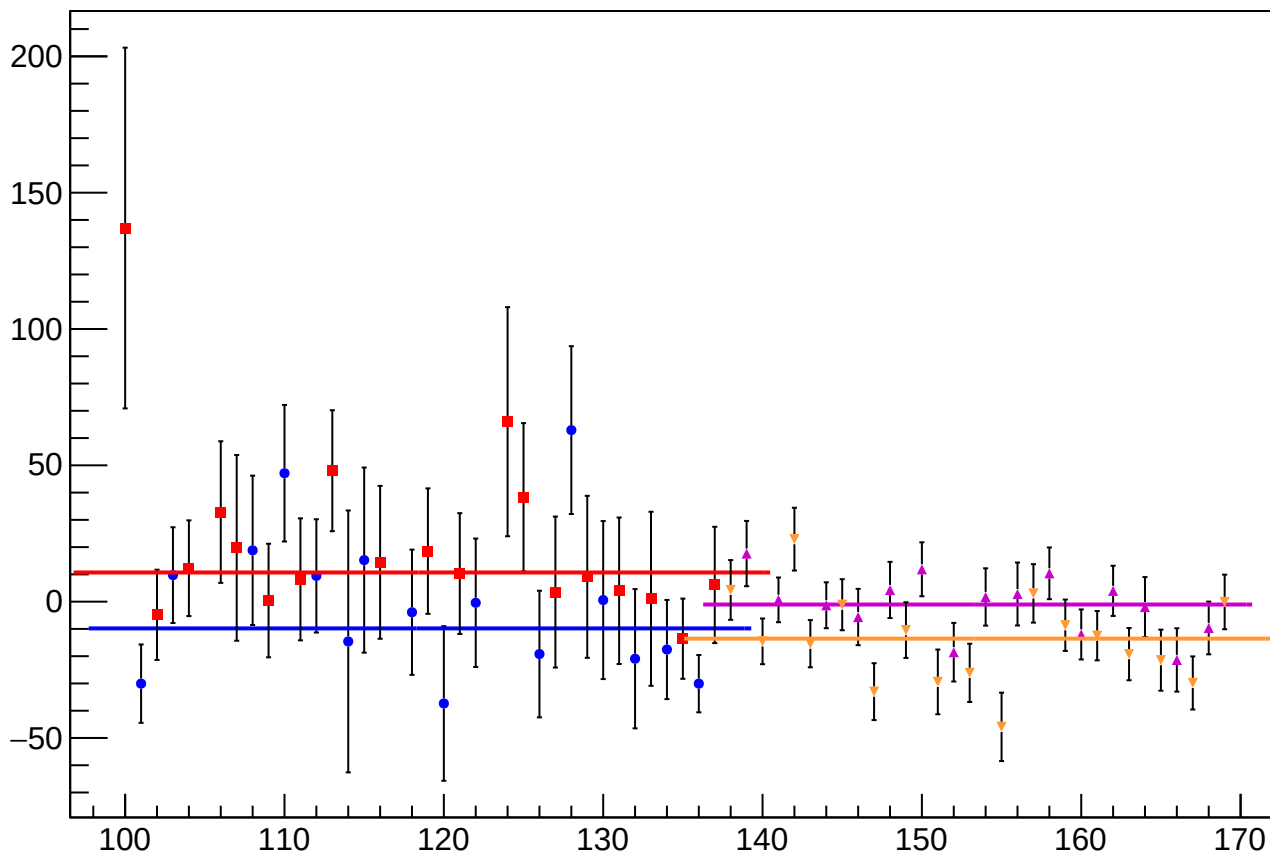
Right: 6861.506+/-1.301 χ^2/NDF : 1499983.0/34

In: 6486.594+/-1.053 χ^2/NDF : 1118979.0/30

Out: 6405.114+/-1.008 χ^2/NDF : 1157818.2/35

All: 6444.086+/-0.728 χ^2/NDF : 2279921.8/66

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.810 ± 5.178 $\chi^2/\text{NDF}: 22.0/15$

Left Out: -13.560 ± 2.443 $\chi^2/\text{NDF}: 36.0/16$

Right Out: 10.703 ± 5.381 $\chi^2/\text{NDF}: 14.3/18$

Left In: -1.053 ± 2.570 $\chi^2/\text{NDF}: 14.5/14$

Left: -7.623 ± 1.771 $\chi^2/\text{NDF}: 63.0/31$

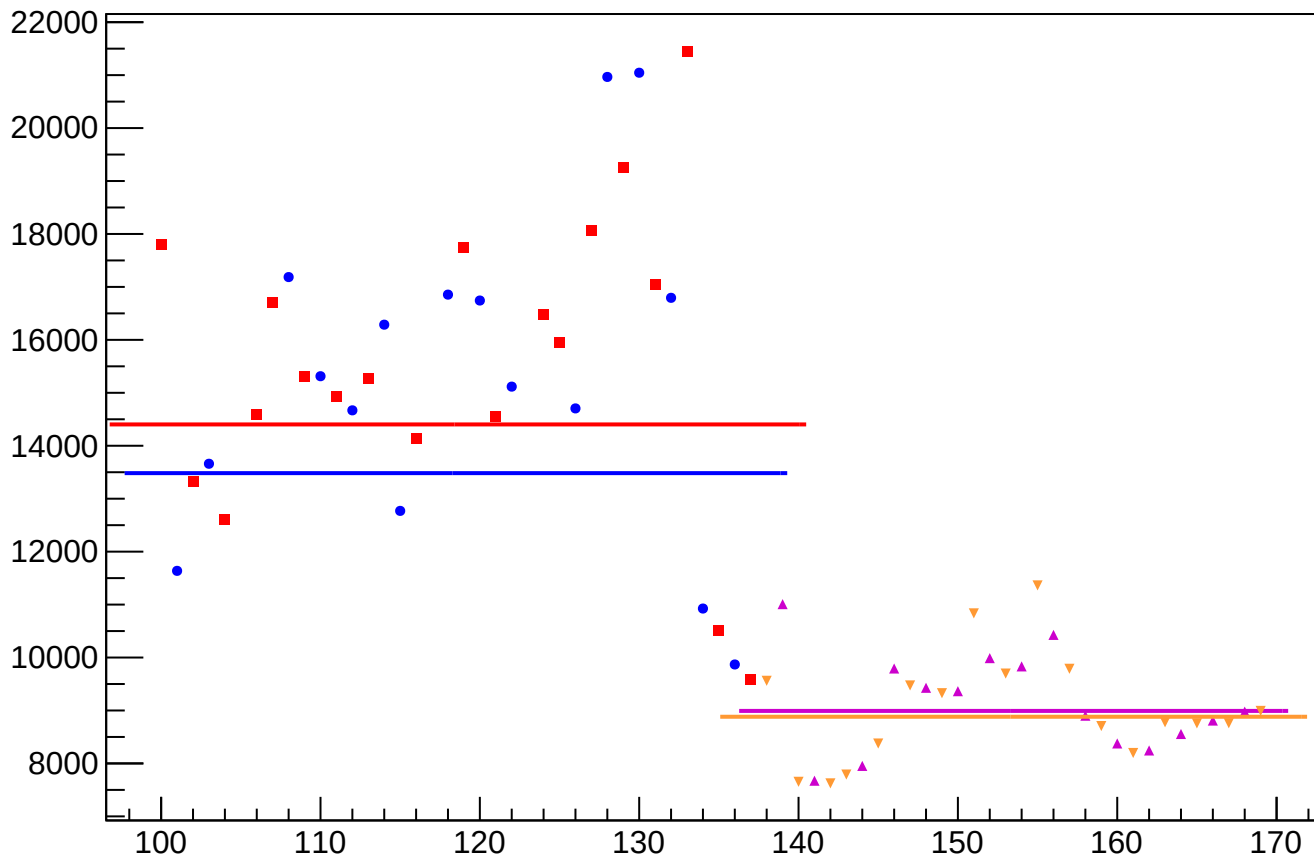
Right: 0.053 ± 3.731 $\chi^2/\text{NDF}: 43.9/34$

In: -2.784 ± 2.302 $\chi^2/\text{NDF}: 38.9/30$

Out: -9.412 ± 2.225 $\chi^2/\text{NDF}: 67.2/35$

All: -6.212 ± 1.600 $\chi^2/\text{NDF}: 110.3/66$

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 13482.879+/-3.661 χ^2/NDF : 743704.4/15

Left Out: 8881.668+/-1.728 χ^2/NDF : 293863.3/16

Right Out: 14402.670+/-3.805 χ^2/NDF : 552430.0/18

Left In: 8991.912+/-1.817 χ^2/NDF : 244340.5/14

Left: 8934.001+/-1.252 χ^2/NDF : 540136.6/31

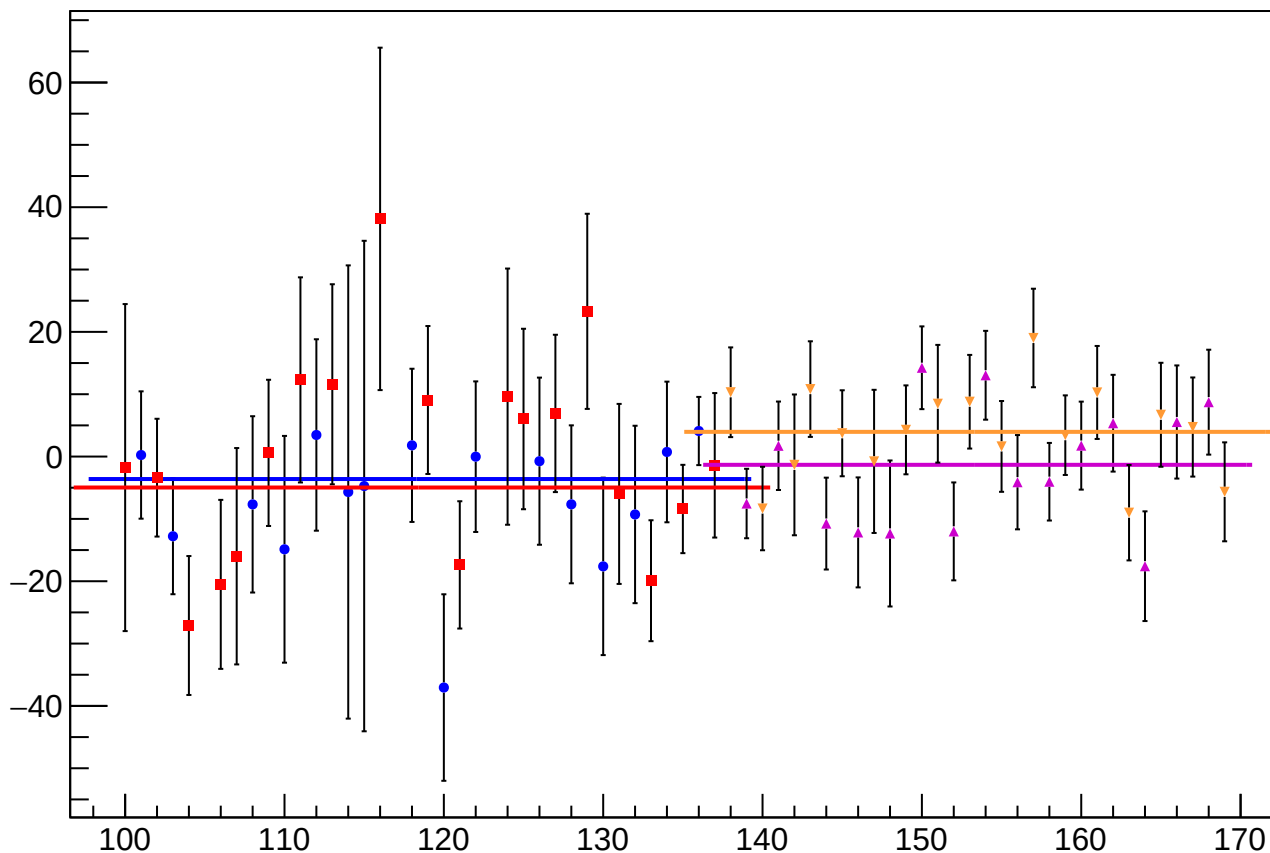
Right: 13925.139+/-2.638 χ^2/NDF : 1326477.7/34

In: 9879.698+/-1.628 χ^2/NDF : 2195085.3/30

Out: 9825.528+/-1.573 χ^2/NDF : 2592048.6/35

All: 9851.686+/-1.131 χ^2/NDF : 4787706.5/66

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: -3.605 ± 2.940 χ^2/NDF : 10.5/15

Left Out: 3.963 ± 1.876 χ^2/NDF : 14.9/16

Right Out: -4.965 ± 2.855 χ^2/NDF : 21.4/18

Left In: -1.326 ± 1.930 χ^2/NDF : 23.5/14

Left: 1.394 ± 1.345 χ^2/NDF : 42.3/31

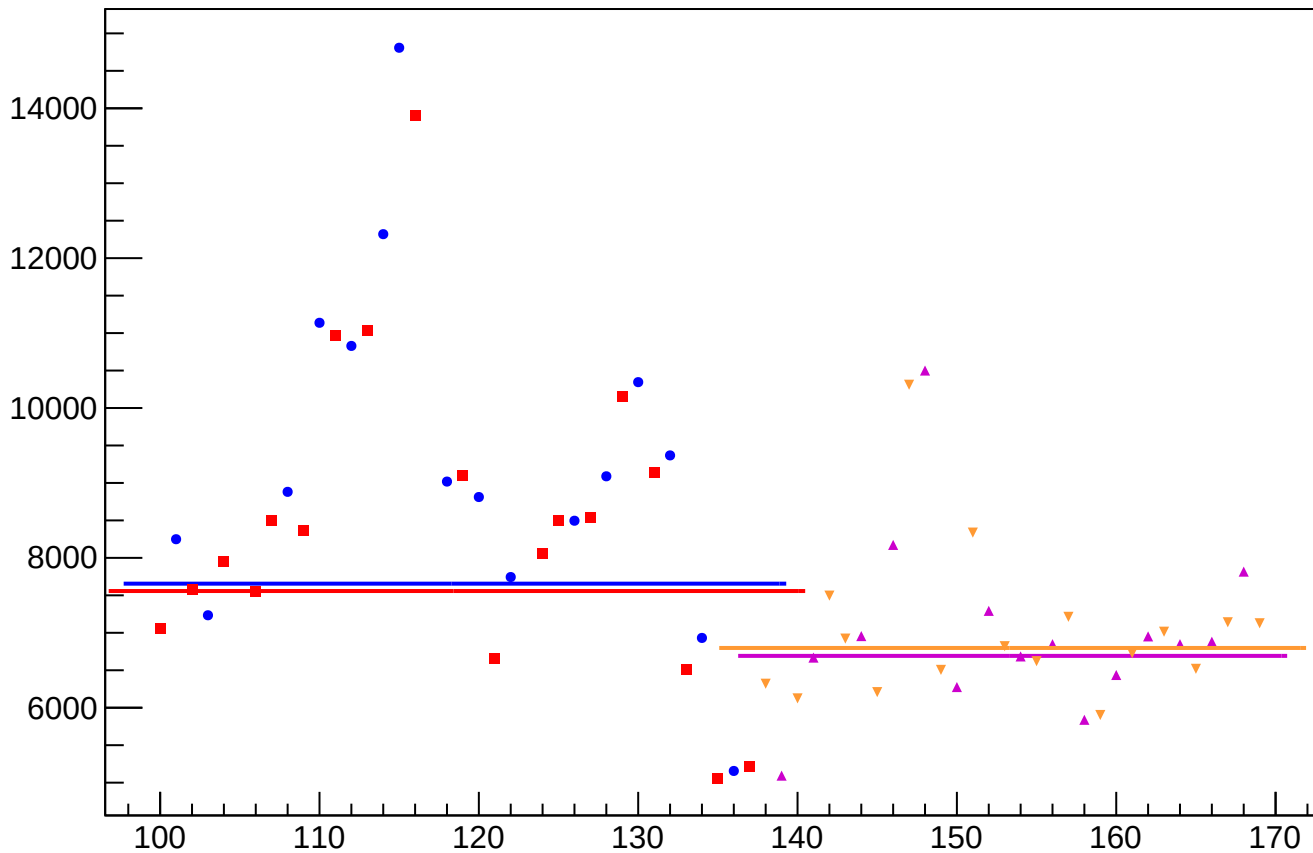
Right: -4.305 ± 2.048 χ^2/NDF : 32.0/34

In: -2.013 ± 1.613 χ^2/NDF : 34.5/30

Out: 1.271 ± 1.568 χ^2/NDF : 43.1/35

All: -0.323 ± 1.124 χ^2/NDF : 79.7/66

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 7655.851 $\pm$ 2.079 χ^2 /NDF: 879769.7/15

Left Out: 6797.669 $\pm$ 1.326 χ^2 /NDF:352799.6/16

Right Out: 7557.497 $\pm$ 2.019 χ^2 /NDF: 809860.3/18

Left In: 6691.962 $\pm$ 1.365 χ^2 /NDF:535191.2/14

Left: 6746.325 $\pm$ 0.951 χ^2 /NDF: 891075.8/31

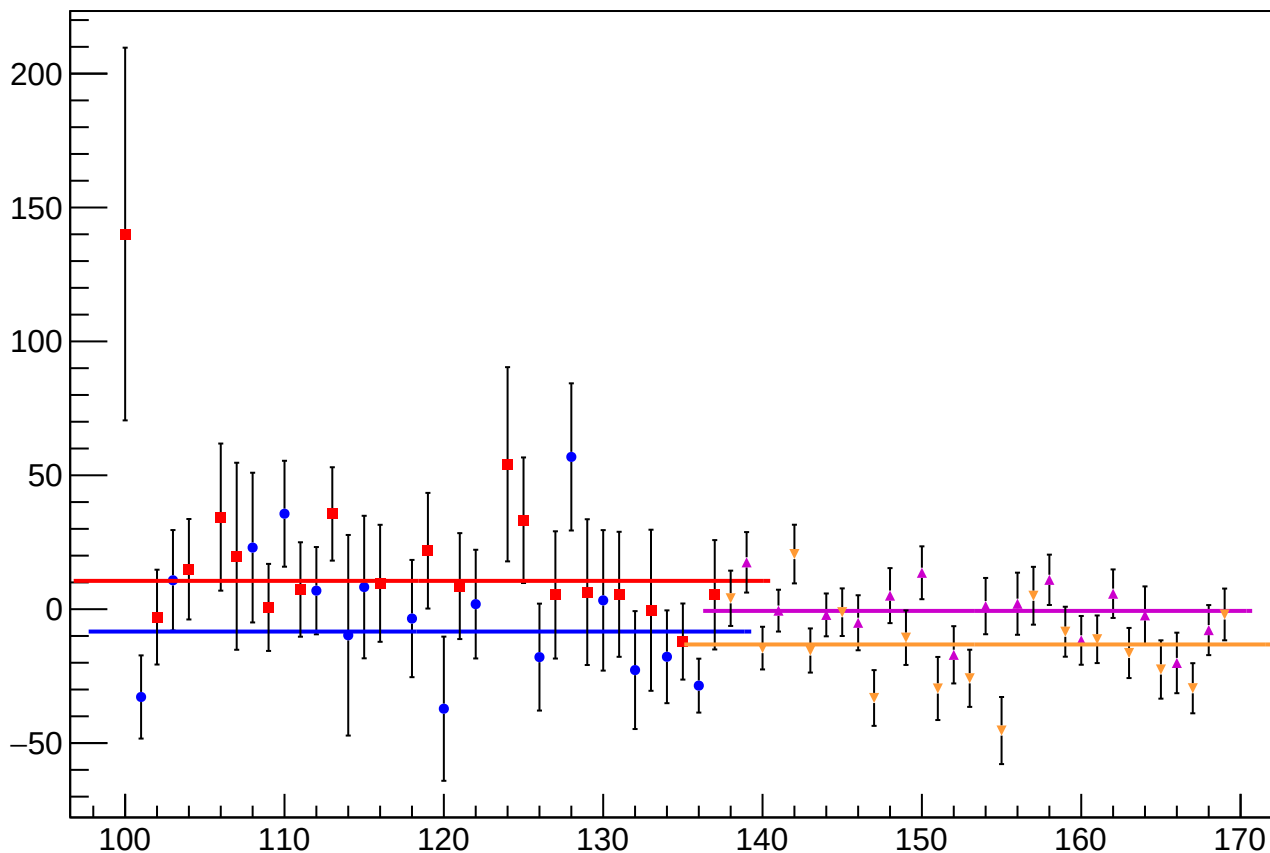
Right: 7605.240 $\pm$ 1.448 χ^2 /NDF: 1690781.9/34

In: 6982.281 $\pm$ 1.141 χ^2 /NDF:1565192.4/30

Out: 7026.717 $\pm$ 1.109 χ^2 /NDF:1261587.6/35

All: 7005.138 $\pm$ 0.795 χ^2 /NDF: 2827560.4/66

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -8.352 $\pm$ 4.814 χ^2/NDF : 23.2/15

Left Out: -13.173 $\pm$ 2.379 χ^2/NDF : 36.3/16

Right Out: 10.573 $\pm$ 4.911 χ^2/NDF : 12.9/18

Left In: -0.639 $\pm$ 2.518 χ^2/NDF : 14.7/14

Left: -7.263 $\pm$ 1.729 χ^2/NDF : 64.1/31

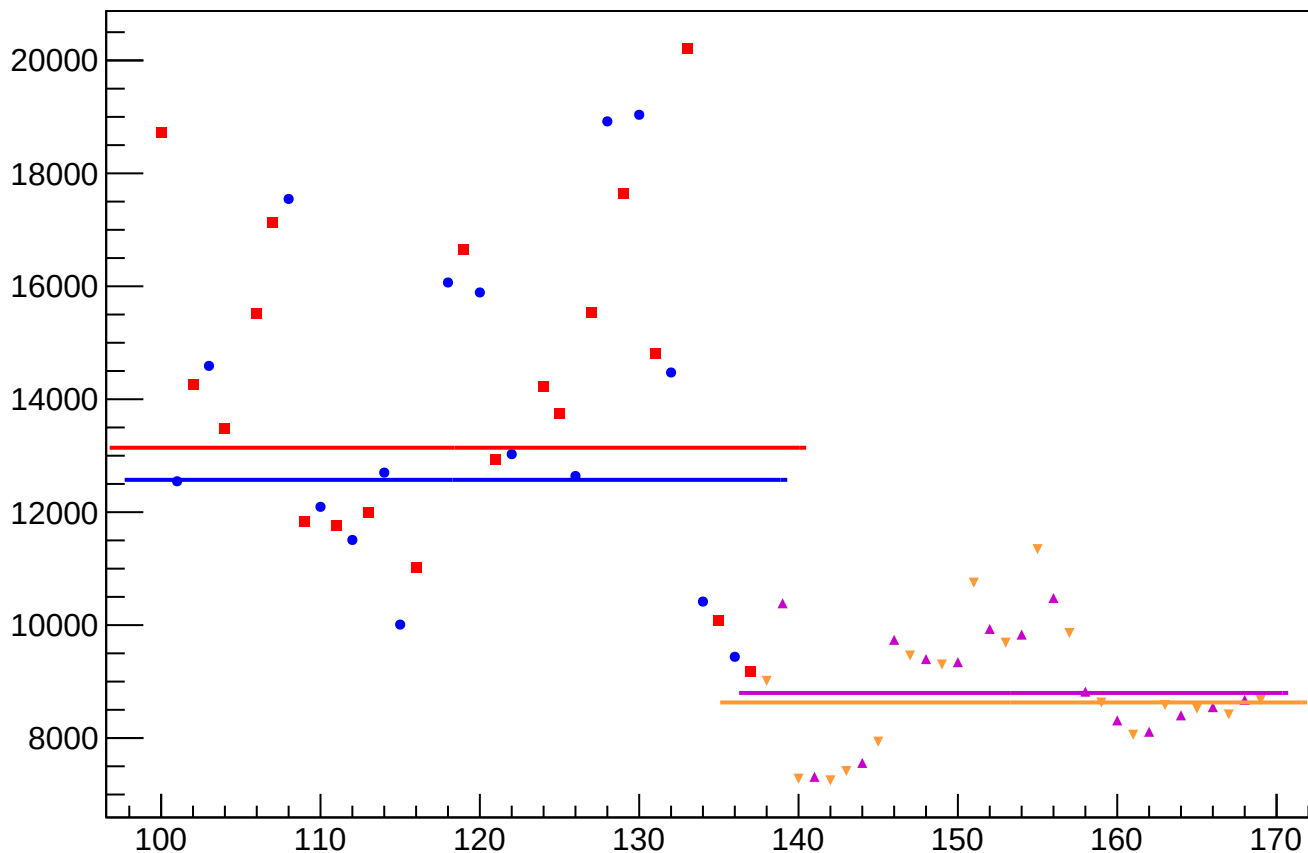
Right: 0.922 $\pm$ 3.438 χ^2/NDF : 43.7/34

In: -2.296 $\pm$ 2.231 χ^2/NDF : 39.9/30

Out: -8.660 $\pm$ 2.141 χ^2/NDF : 68.1/35

All: -5.610 $\pm$ 1.545 χ^2/NDF : 112.3/66

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 12572.586 ± 3.404 χ^2/NDF : 665026.8/15

Left Out: 8630.622 ± 1.682 χ^2/NDF : 382920.0/16

Right Out: 13141.218 ± 3.473 χ^2/NDF : 534726.5/18

Left In: 8798.818 ± 1.781 χ^2/NDF : 294548.7/14

Left: 8709.931 ± 1.223 χ^2/NDF : 682183.8/31

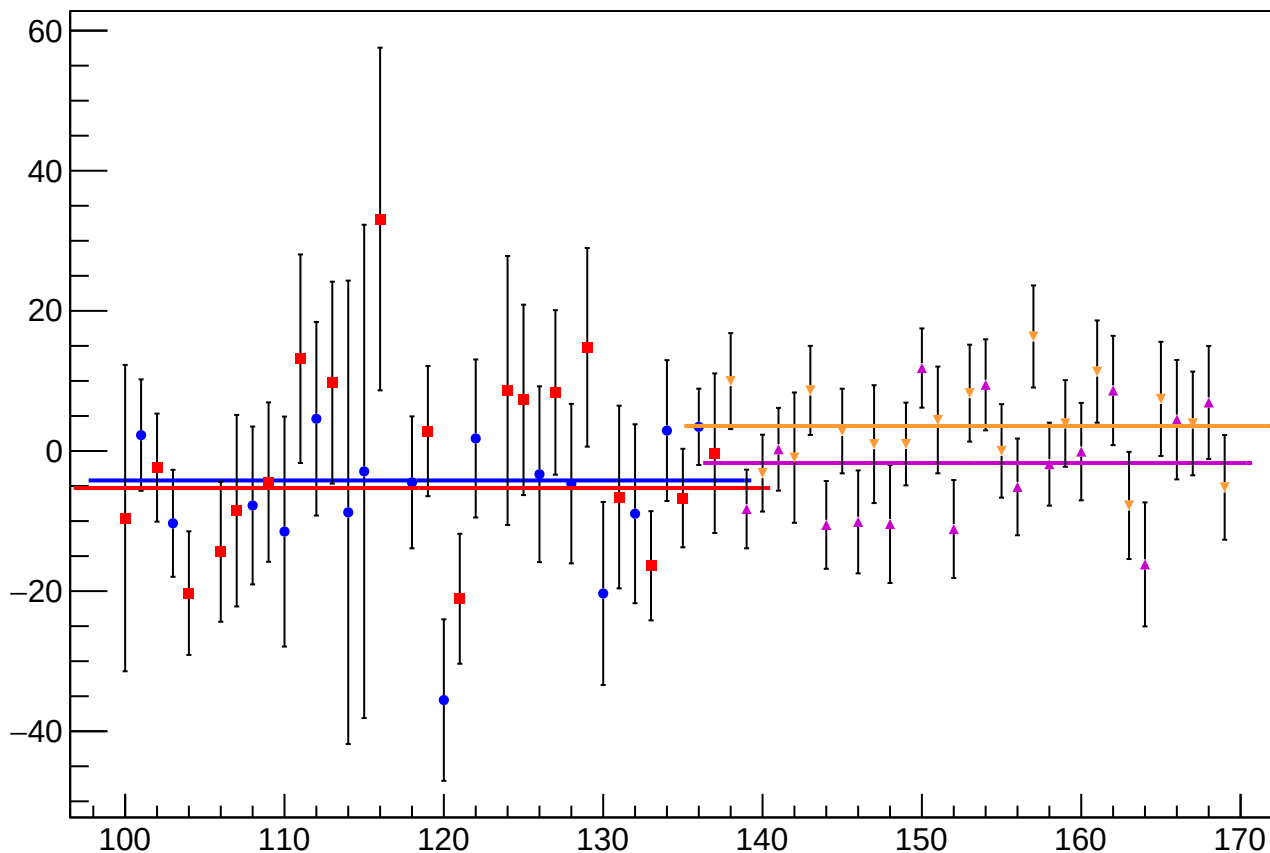
Right: 12851.222 ± 2.431 χ^2/NDF : 1213428.5/34

In: 9609.673 ± 1.578 χ^2/NDF : 1924643.3/30

Out: 9487.768 ± 1.514 χ^2/NDF : 2284264.6/35

All: 9546.196 ± 1.092 χ^2/NDF : 4212016.2/66

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: -4.204 ± 2.600 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 3.567 ± 1.681 $\chi^2/\text{NDF}: 12.3/16$

Right Out: -5.288 ± 2.502 $\chi^2/\text{NDF}: 19.7/18$

Left In: -1.712 ± 1.761 $\chi^2/\text{NDF}: 22.8/14$

Left: 1.050 ± 1.216 $\chi^2/\text{NDF}: 39.8/31$

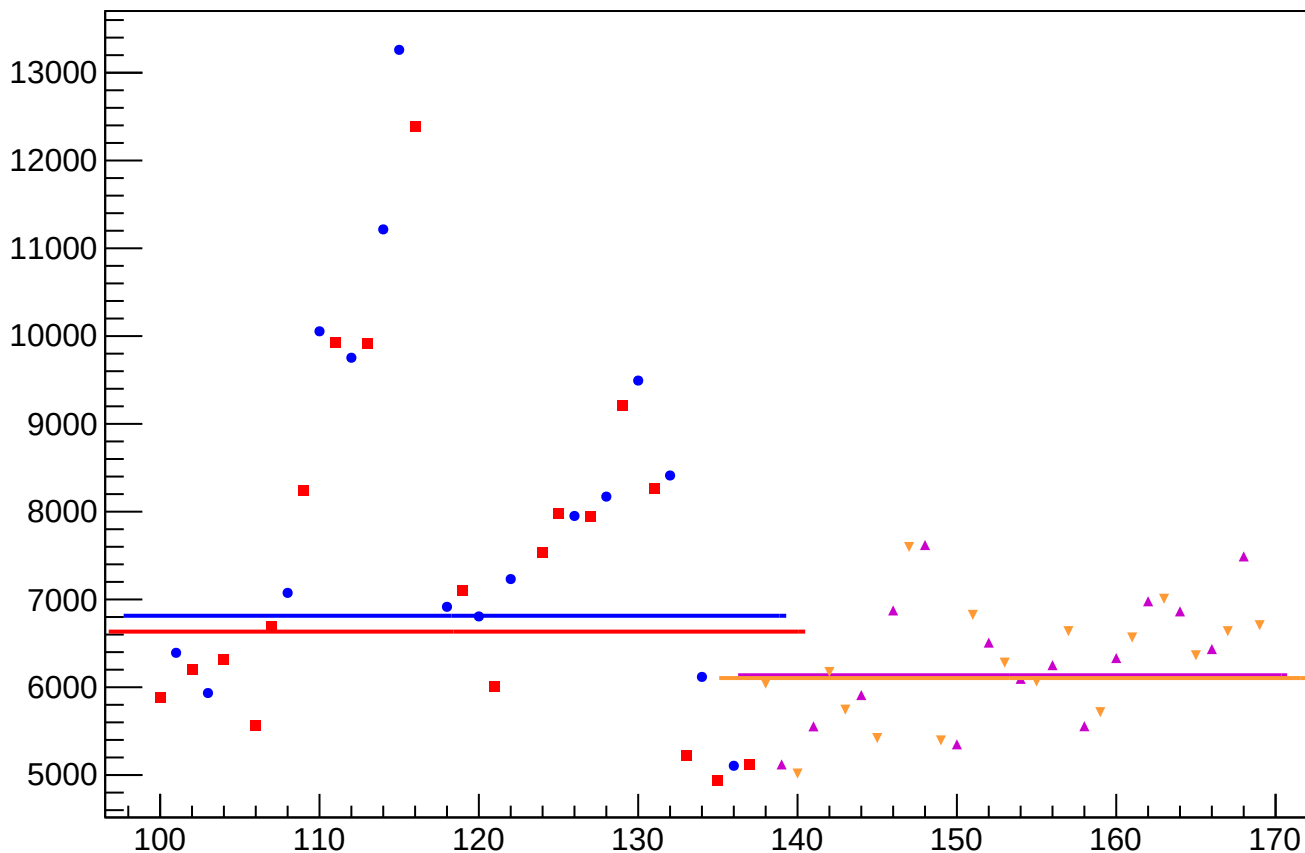
Right: -4.767 ± 1.803 $\chi^2/\text{NDF}: 33.7/34$

In: -2.495 ± 1.458 $\chi^2/\text{NDF}: 37.3/30$

Out: 0.812 ± 1.395 $\chi^2/\text{NDF}: 40.7/35$

All: -0.769 ± 1.008 $\chi^2/\text{NDF}: 80.6/66$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 6814.282+/-1.839 χ^2/NDF : 674093.4/15

Left Out: 6104.644+/-1.189 χ^2/NDF : 302151.2/16

Right Out: 6633.695+/-1.769 χ^2/NDF : 763347.6/18

Left In: 6136.602+/-1.245 χ^2/NDF : 331238.7/14

Left: 6119.883+/-0.860 χ^2/NDF : 633734.4/31

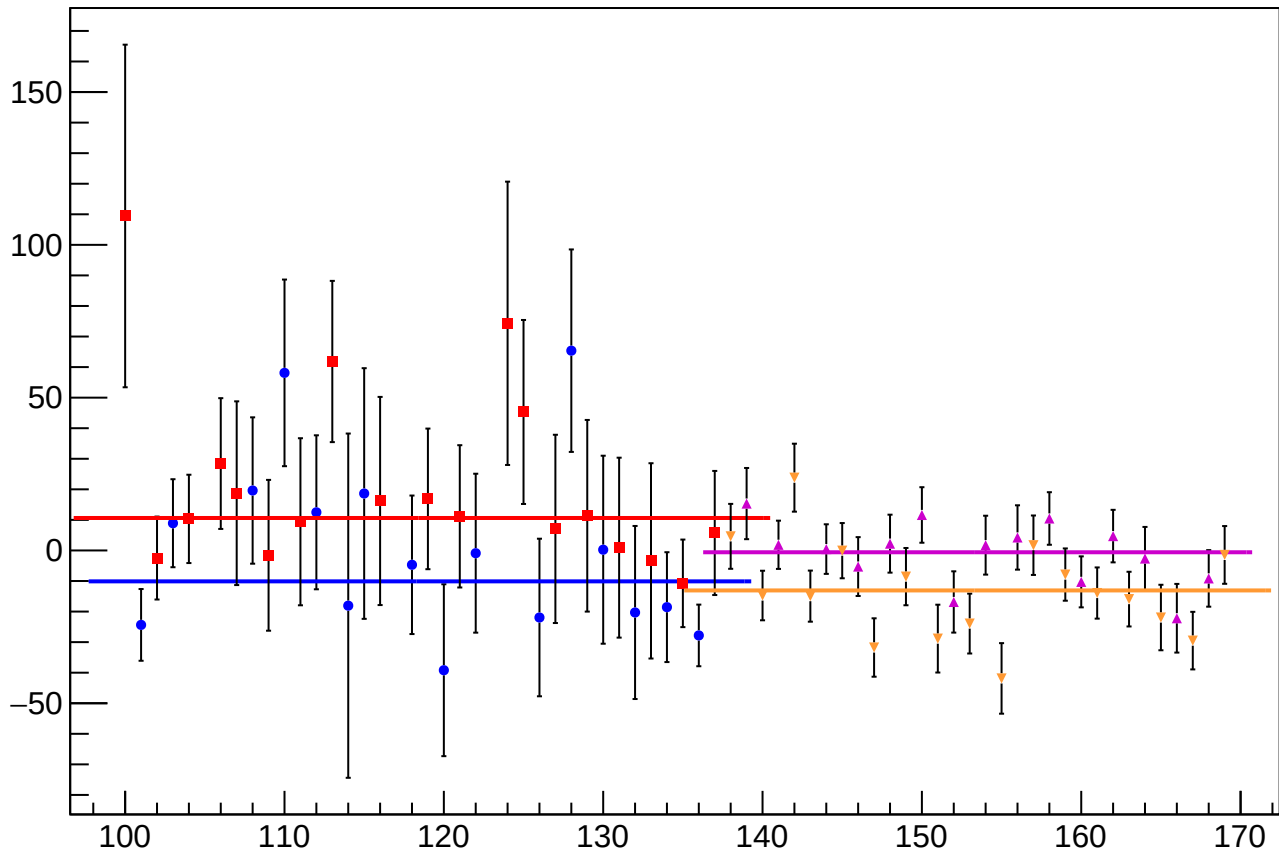
Right: 6720.509+/-1.275 χ^2/NDF : 1442449.8/34

In: 6349.681+/-1.031 χ^2/NDF : 1098458.0/30

Out: 6269.224+/-0.987 χ^2/NDF : 1127103.4/35

All: 6307.688+/-0.713 χ^2/NDF : 2228739.7/66

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -10.113 ± 5.017 χ^2/NDF : 21.3/15

Left Out: -13.082 ± 2.299 χ^2/NDF : 37.5/16

Right Out: 10.624 ± 5.277 χ^2/NDF : 14.7/18

Left In: -0.593 ± 2.406 χ^2/NDF : 15.0/14

Left: -7.123 ± 1.662 χ^2/NDF : 66.6/31

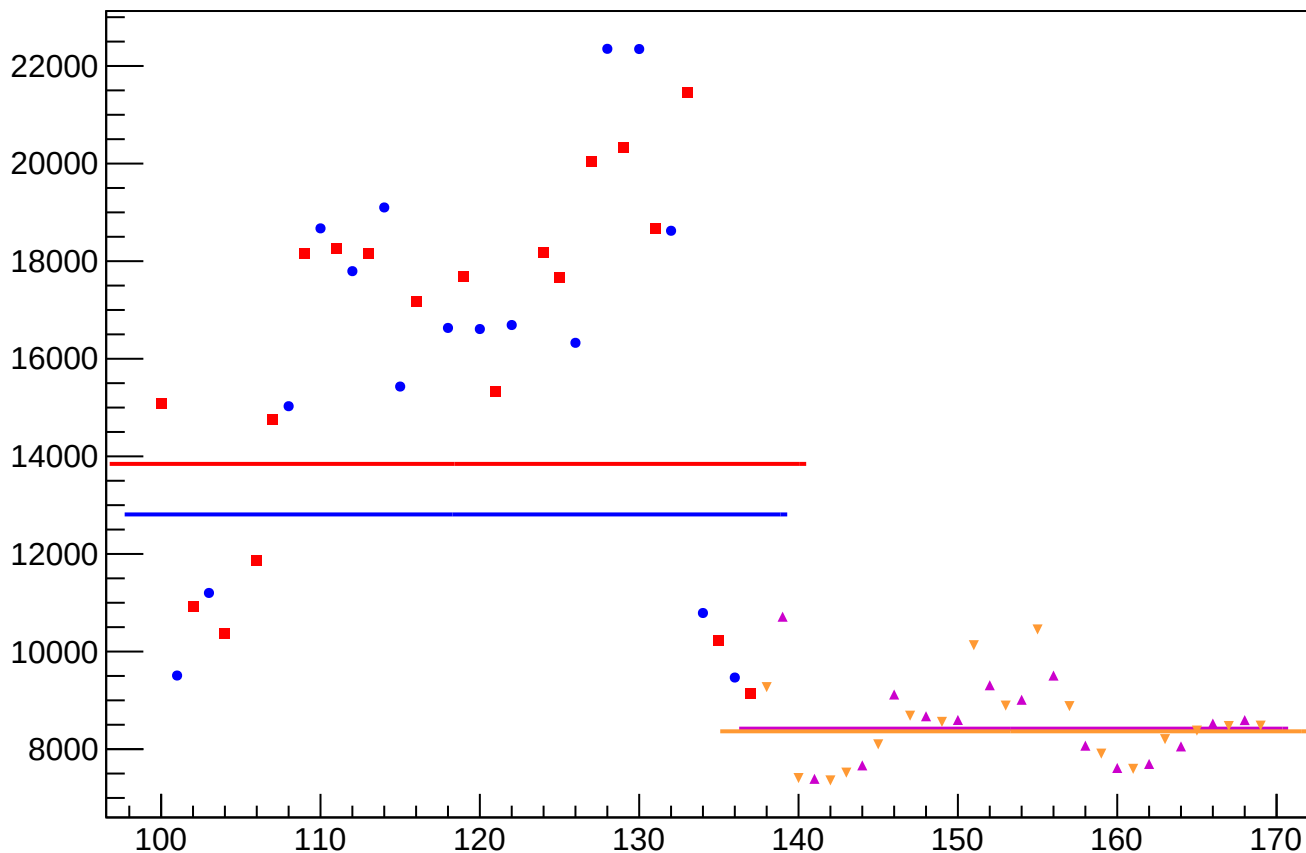
Right: -0.267 ± 3.636 χ^2/NDF : 44.1/34

In: -2.373 ± 2.170 χ^2/NDF : 39.2/30

Out: -9.301 ± 2.107 χ^2/NDF : 69.2/35

All: -5.938 ± 1.512 χ^2/NDF : 113.6/66

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 12809.964 $\pm$ 3.548 χ^2/NDF : 1248252.1/15

Left Out: 8365.320 $\pm$ 1.625 χ^2/NDF :235307.5/16

Right Out: 13845.622 $\pm$ 3.731 χ^2/NDF : 1096555.2/18

Left In: 8419.913 $\pm$ 1.701 χ^2/NDF :225543.3/14

Left: 8391.369 $\pm$ 1.175 χ^2/NDF : 461389.1/31

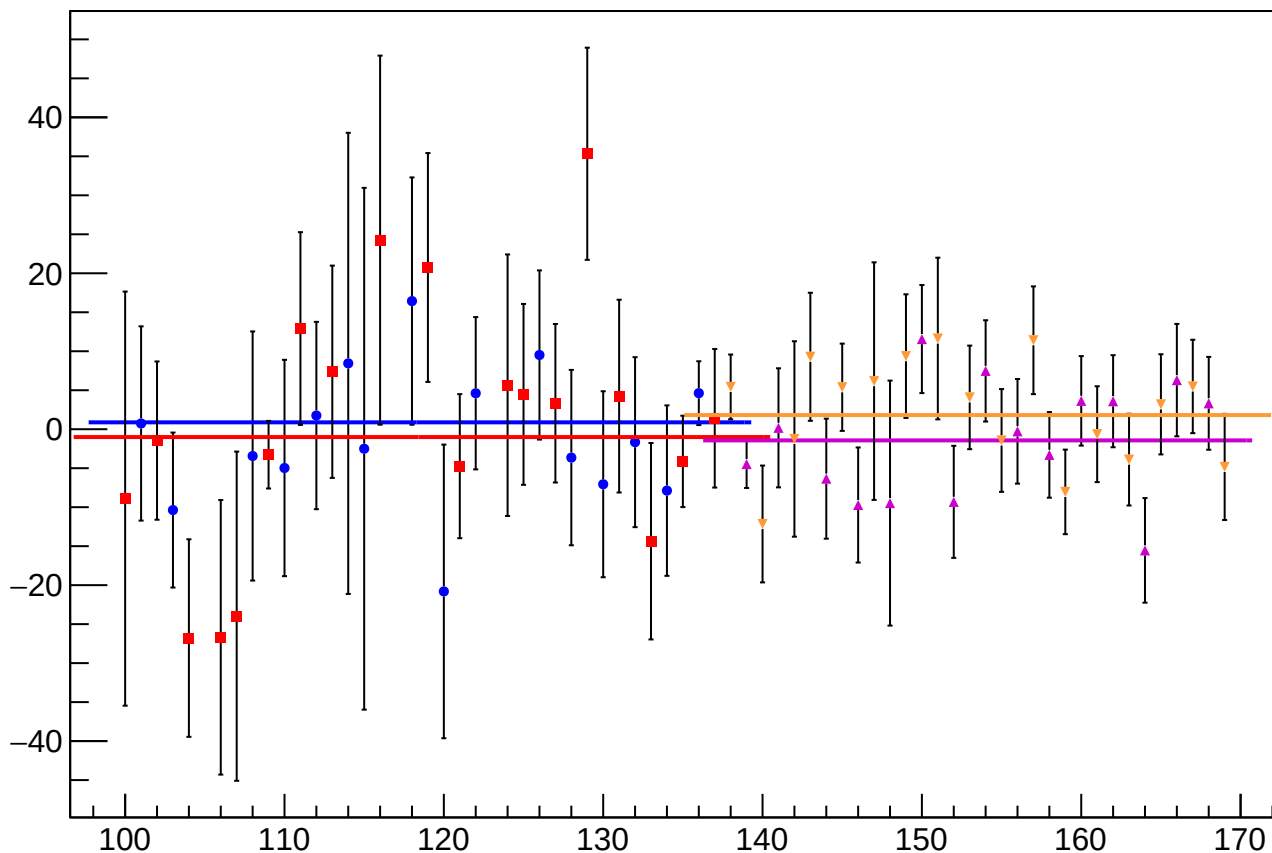
Right: 13301.707 $\pm$ 2.571 χ^2/NDF : 2385270.2/34

In: 9240.800 $\pm$ 1.534 χ^2/NDF :2718706.8/30

Out: 9239.404 $\pm$ 1.490 χ^2/NDF :3145114.4/35

All: 9240.082 $\pm$ 1.069 χ^2/NDF : 5863821.6/66

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 0.882 $\pm$ 2.566 χ^2 /NDF: 6.8/15

Left Out: 1.815 $\pm$ 1.605 χ^2 /NDF:15.5/16

Right Out: -1.006 $\pm$ 2.314 χ^2 /NDF: 22.3/18

Left In: -1.435 $\pm$ 1.561 χ^2 /NDF:17.4/14

Left: 0.145 $\pm$ 1.119 χ^2 /NDF: 35.0/31

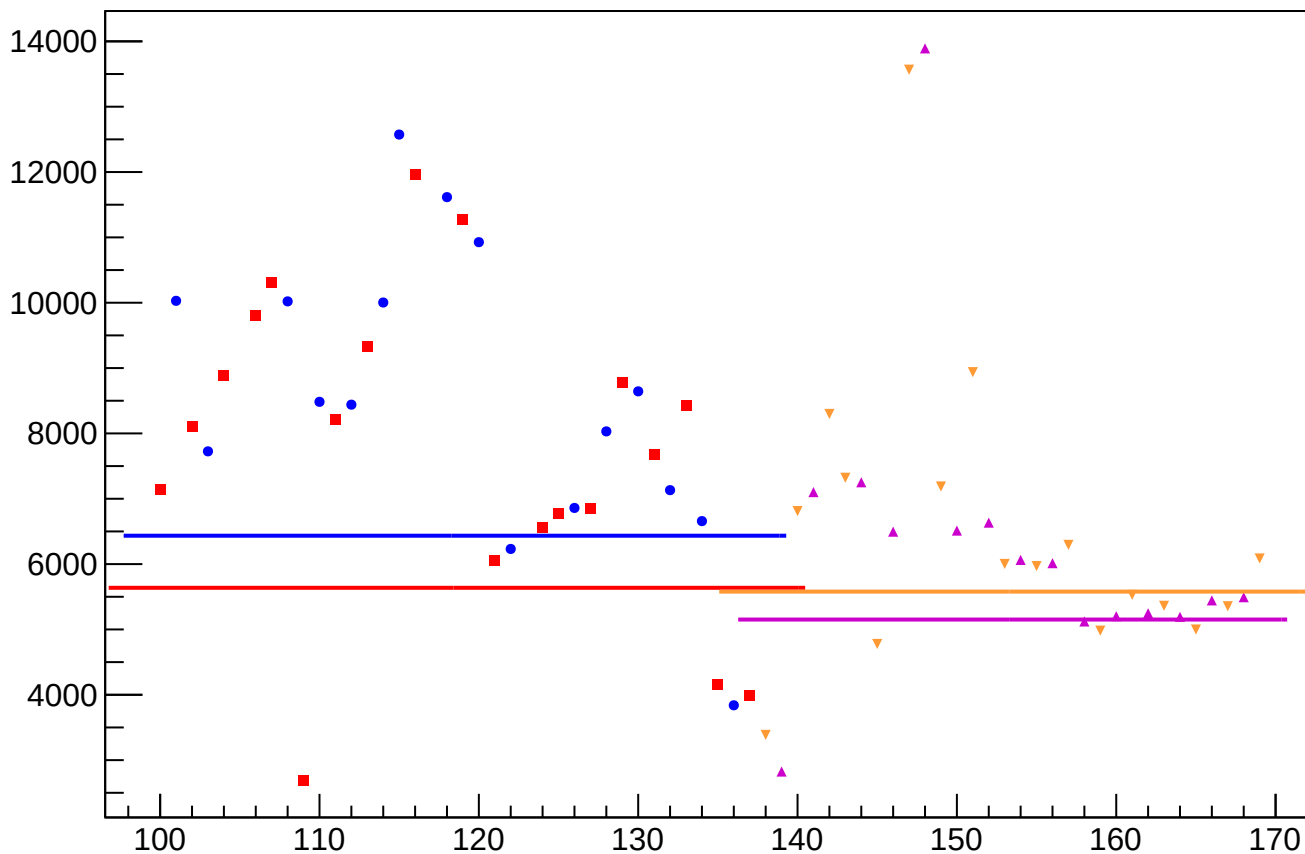
Right: -0.159 $\pm$ 1.718 χ^2 /NDF: 29.4/34

In: -0.809 $\pm$ 1.334 χ^2 /NDF:24.8/30

Out: 0.899 $\pm$ 1.319 χ^2 /NDF:38.8/35

All: 0.054 $\pm$ 0.938 χ^2 /NDF: 64.5/66

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6434.559+/-1.814 χ^2/NDF : 1750609.4/15

Left Out: 5579.056+/-1.135 χ^2/NDF : 1772245.2/16

Right Out: 5637.344+/-1.636 χ^2/NDF : 2580013.6/18

Left In: 5151.454+/-1.104 χ^2/NDF : 2356721.2/14

Left: 5359.290+/-0.791 χ^2/NDF : 4201894.8/31

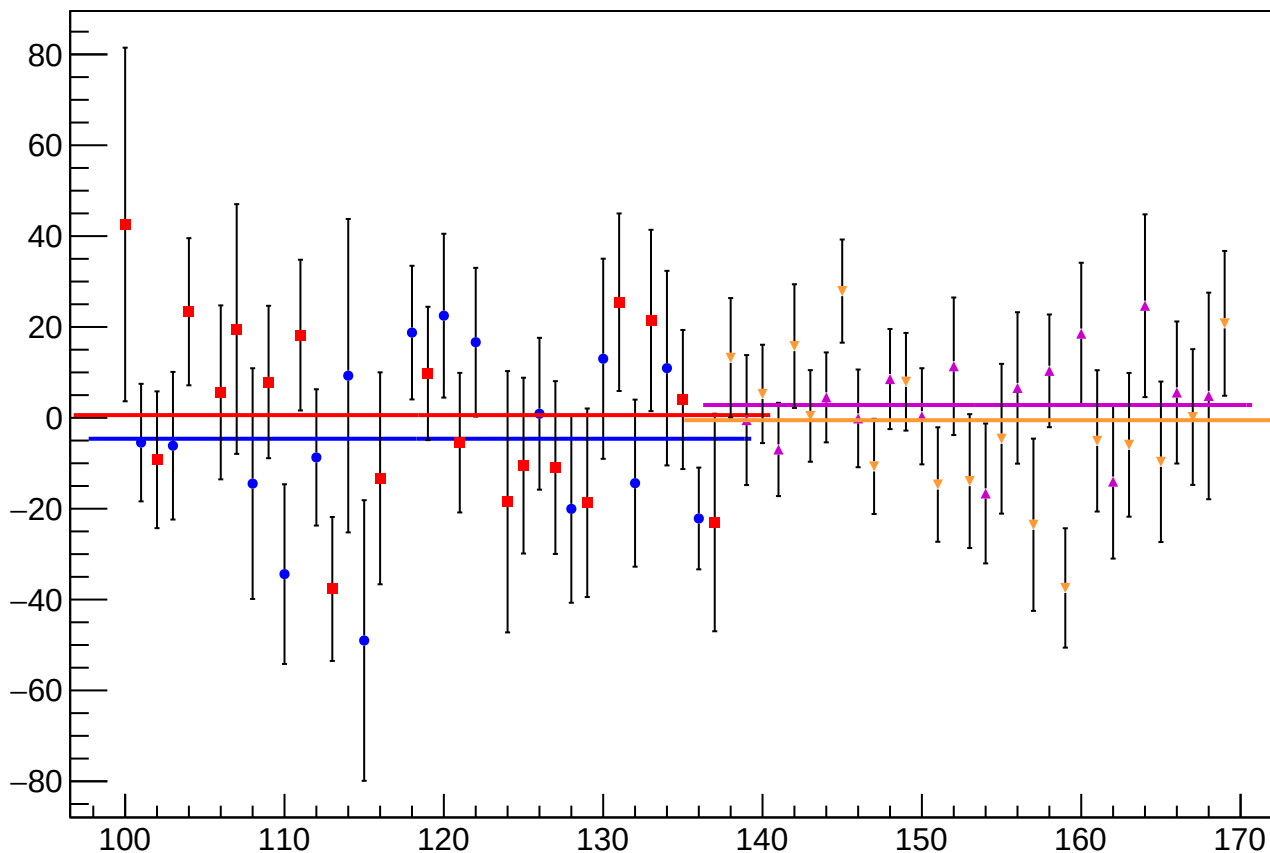
Right: 5994.862+/-1.215 χ^2/NDF : 4437091.5/34

In: 5498.076+/-0.943 χ^2/NDF : 4472298.2/30

Out: 5597.996+/-0.933 χ^2/NDF : 4353115.5/35

All: 5548.591+/-0.663 χ^2/NDF : 8831088.8/66

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.602 $\pm$ 4.355 χ^2/NDF : 15.8/15

Left Out: -0.518 $\pm$ 3.195 χ^2/NDF : 24.4/16

Right Out: 0.600 $\pm$ 4.266 χ^2/NDF : 17.9/18

Left In: 2.821 $\pm$ 3.427 χ^2/NDF : 6.9/14

Left: 1.035 $\pm$ 2.337 χ^2/NDF : 31.9/31

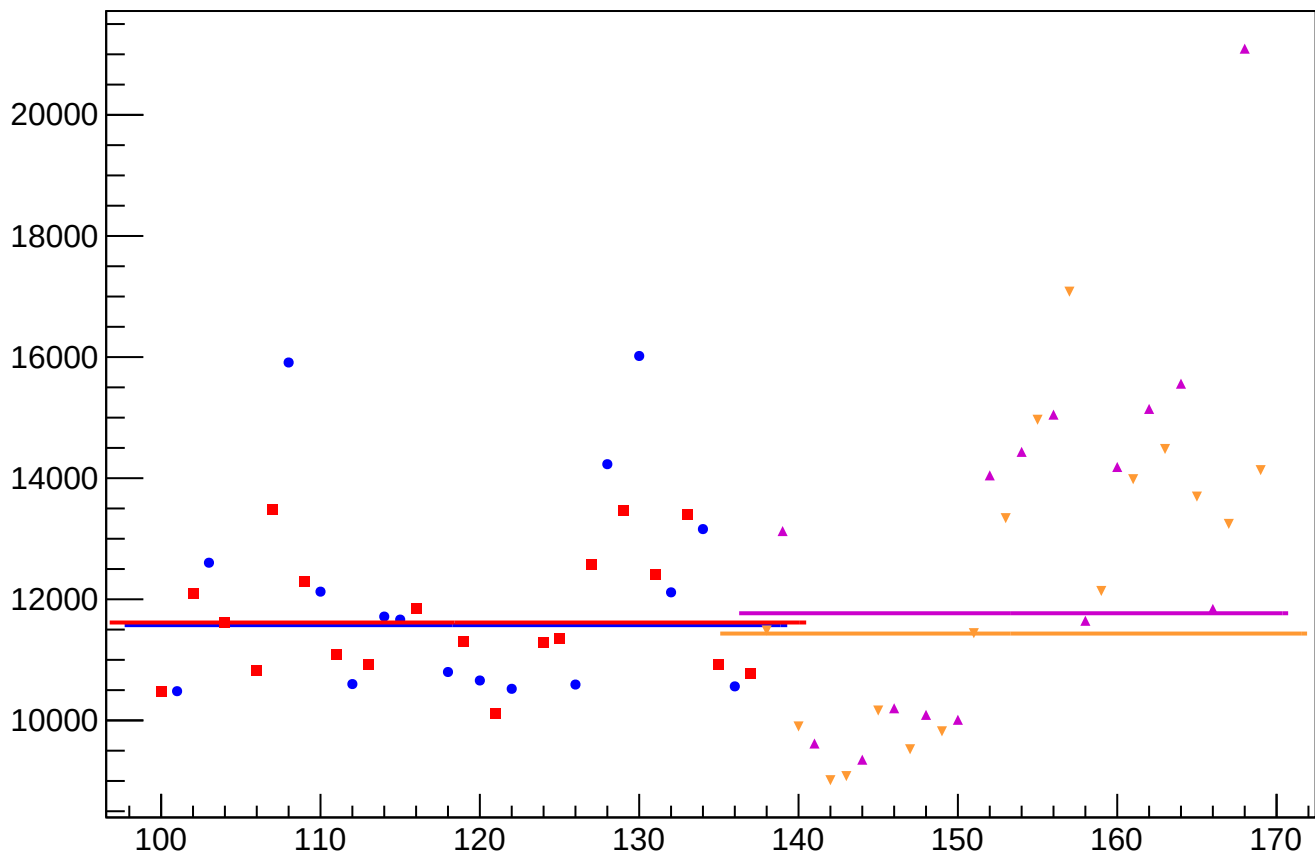
Right: -1.948 $\pm$ 3.048 χ^2/NDF : 34.4/34

In: -0.018 $\pm$ 2.693 χ^2/NDF : 24.5/30

Out: -0.116 $\pm$ 2.557 χ^2/NDF : 42.4/35

All: -0.069 $\pm$ 1.854 χ^2/NDF : 66.9/66

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 11573.073+/-3.079 χ^2/NDF : 260067.0/15

Left Out: 11434.280+/-2.259 χ^2/NDF : 905098.5/16

Right Out: 11616.773+/-3.017 χ^2/NDF : 93165.6/18

Left In: 11769.557+/-2.423 χ^2/NDF : 1087011.9/14

Left: 11590.194+/-1.652 χ^2/NDF : 2002353.7/31

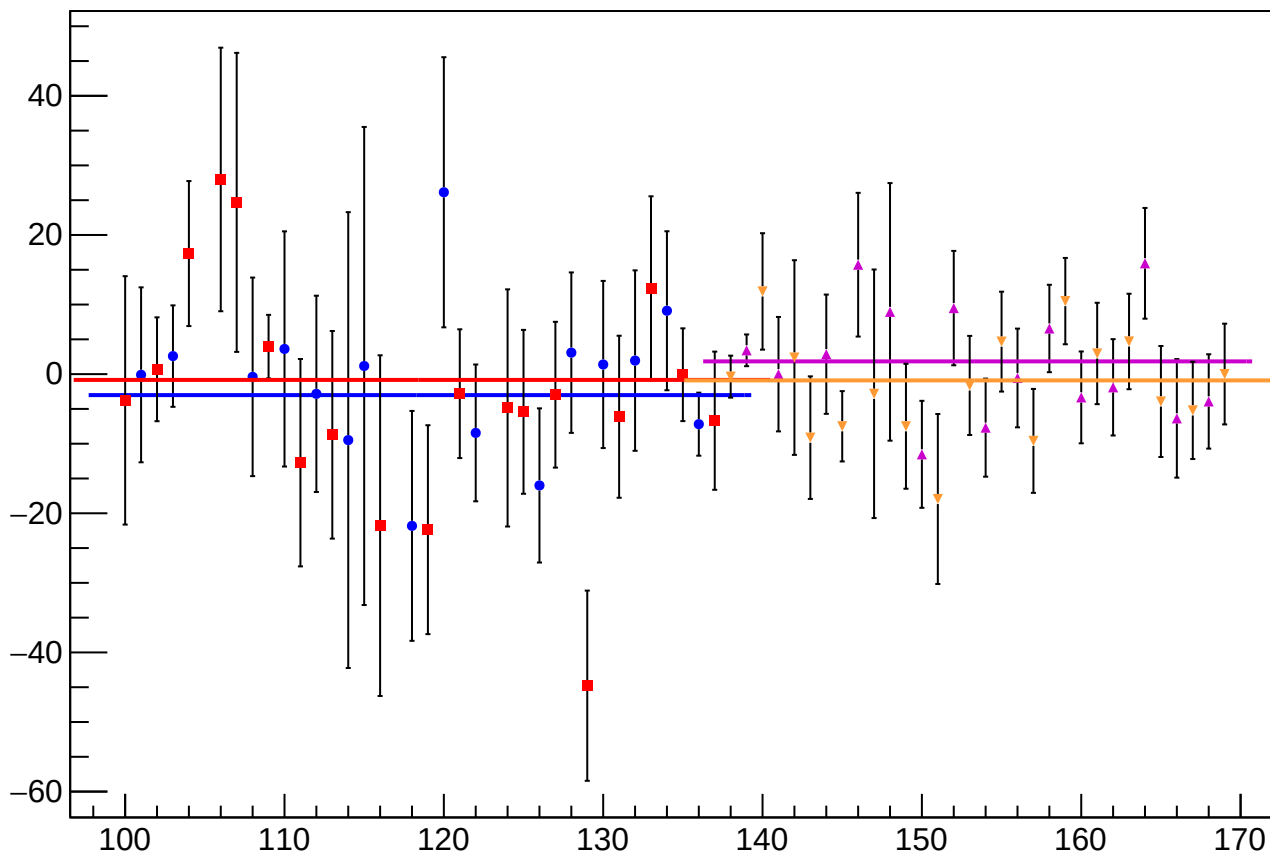
Right: 11595.370+/-2.155 χ^2/NDF : 353335.4/34

In: 11694.421+/-1.904 χ^2/NDF : 1349593.5/30

Out: 11499.843+/-1.808 χ^2/NDF : 1000608.6/35

All: 11592.110+/-1.311 χ^2/NDF : 2355692.7/6

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -3.014 ± 2.654 χ^2/NDF : 8.7/15

Left Out: -0.902 ± 1.618 χ^2/NDF : 14.3/16

Right Out: -0.831 ± 2.352 χ^2/NDF : 23.8/18

Left In: 1.832 ± 1.534 χ^2/NDF : 14.6/14

Left: 0.539 ± 1.113 χ^2/NDF : 30.4/31

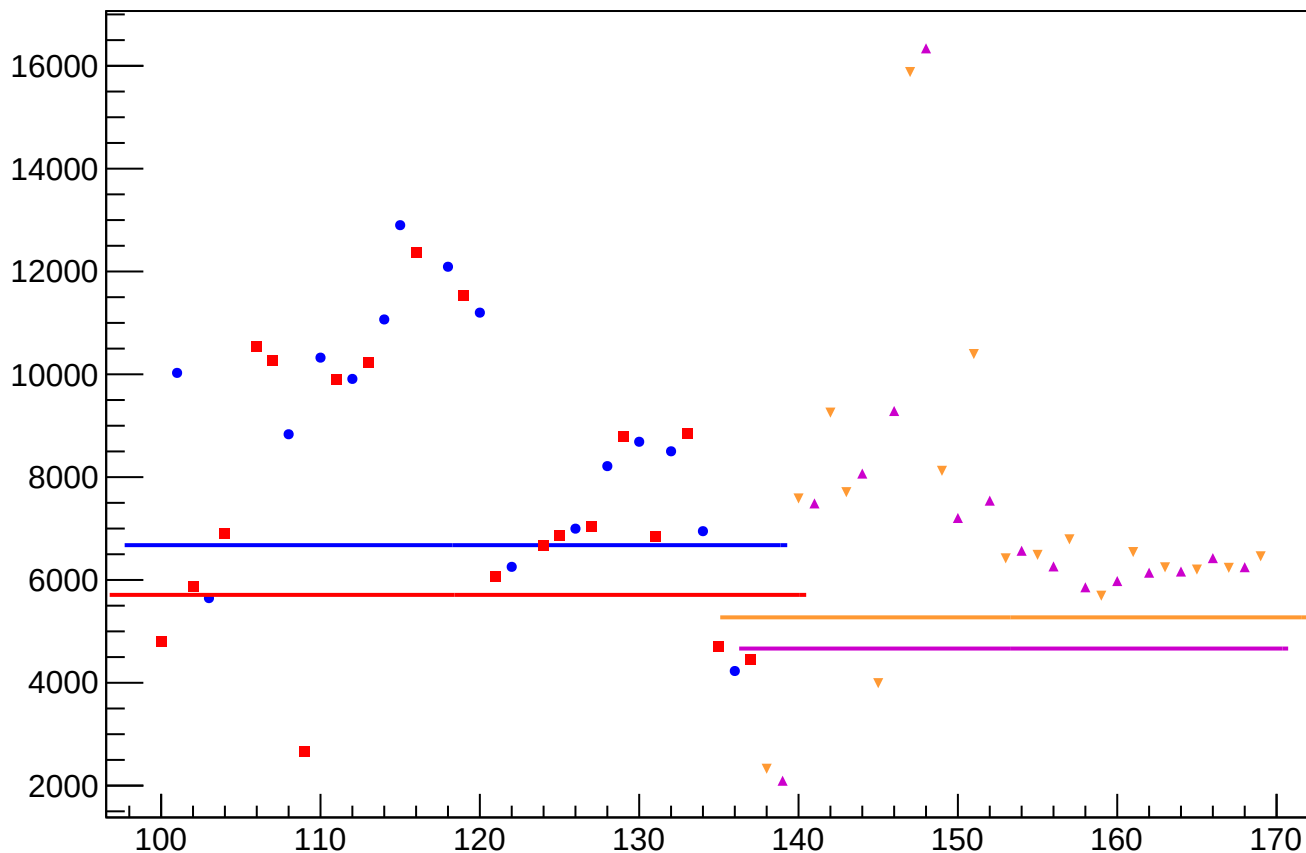
Right: -1.791 ± 1.760 χ^2/NDF : 32.9/34

In: 0.619 ± 1.328 χ^2/NDF : 25.7/30

Out: -0.879 ± 1.333 χ^2/NDF : 38.2/35

All: -0.127 ± 0.941 χ^2/NDF : 64.5/66

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 6676.920 ± 1.877 $\chi^2/\text{NDF}: 1572864.3/15$

Left Out: 5272.682 ± 1.144 $\chi^2/\text{NDF}: 4180048.1/16$

Right Out: 5709.821 ± 1.663 $\chi^2/\text{NDF}: 2301039.5/18$

Left In: 4666.007 ± 1.084 $\chi^2/\text{NDF}: 5506600.7/14$

Left: 4953.059 ± 0.787 $\chi^2/\text{NDF}: 9834754.6/31$

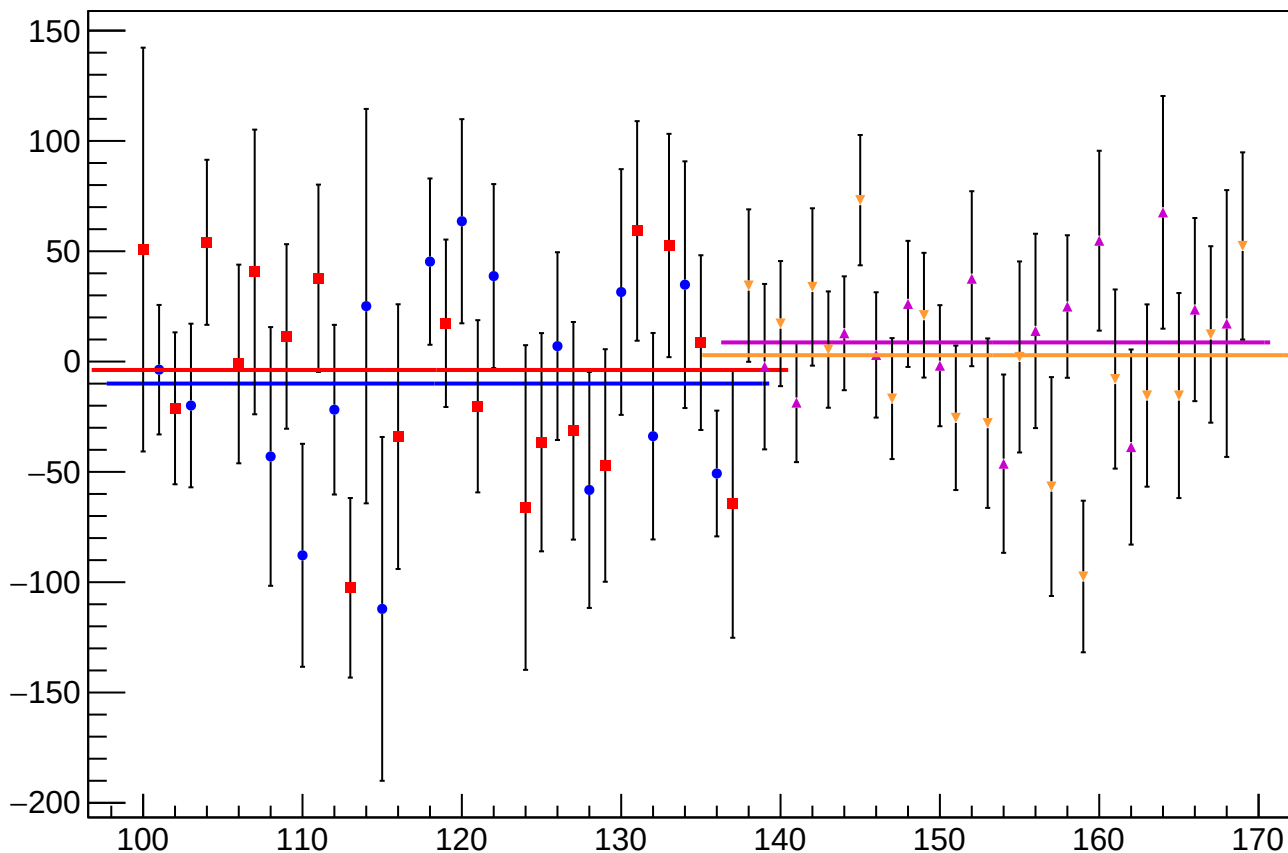
Right: 6135.167 ± 1.245 $\chi^2/\text{NDF}: 4022672.5/34$

In: 5169.346 ± 0.939 $\chi^2/\text{NDF}: 7940282.1/30$

Out: 5413.154 ± 0.943 $\chi^2/\text{NDF}: 6527989.3/35$

All: 5290.767 ± 0.665 $\chi^2/\text{NDF}: 14501853.8/66$

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -9.969 ± 10.836 χ^2/NDF : 15.3/15

Left Out: 2.889 ± 8.371 χ^2/NDF : 21.6/16

Right Out: -3.814 ± 10.636 χ^2/NDF : 17.3/18

Left In: 8.678 ± 8.970 χ^2/NDF : 8.2/14

Left: 5.584 ± 6.120 χ^2/NDF : 30.0/31

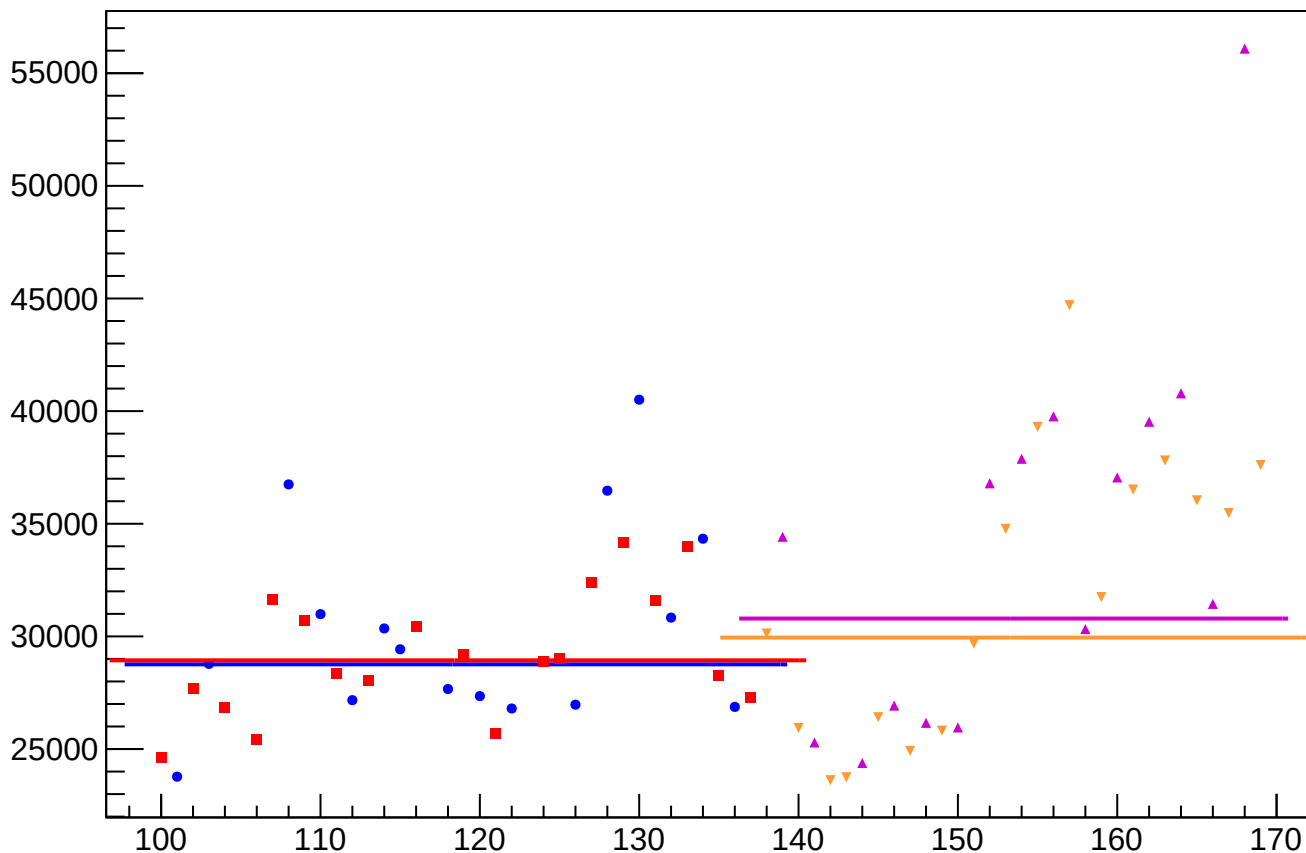
Right: -6.834 ± 7.591 χ^2/NDF : 32.8/34

In: 1.096 ± 6.910 χ^2/NDF : 25.2/30

Out: 0.325 ± 6.578 χ^2/NDF : 39.2/35

All: 0.692 ± 4.764 χ^2/NDF : 64.4/66

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 28759.090 $\pm$ 7.662 χ^2 /NDF: 277639.9/15

Left Out: 29946.685 $\pm$ 5.919 χ^2 /NDF: 922753.1/16

Right Out: 28937.633 $\pm$ 7.521 χ^2 /NDF: 106266.0/18

Left In: 30792.324 $\pm$ 6.343 χ^2 /NDF: 1115583.1/14

Left: 30340.327 $\pm$ 4.328 χ^2 /NDF: 2047837.0/31

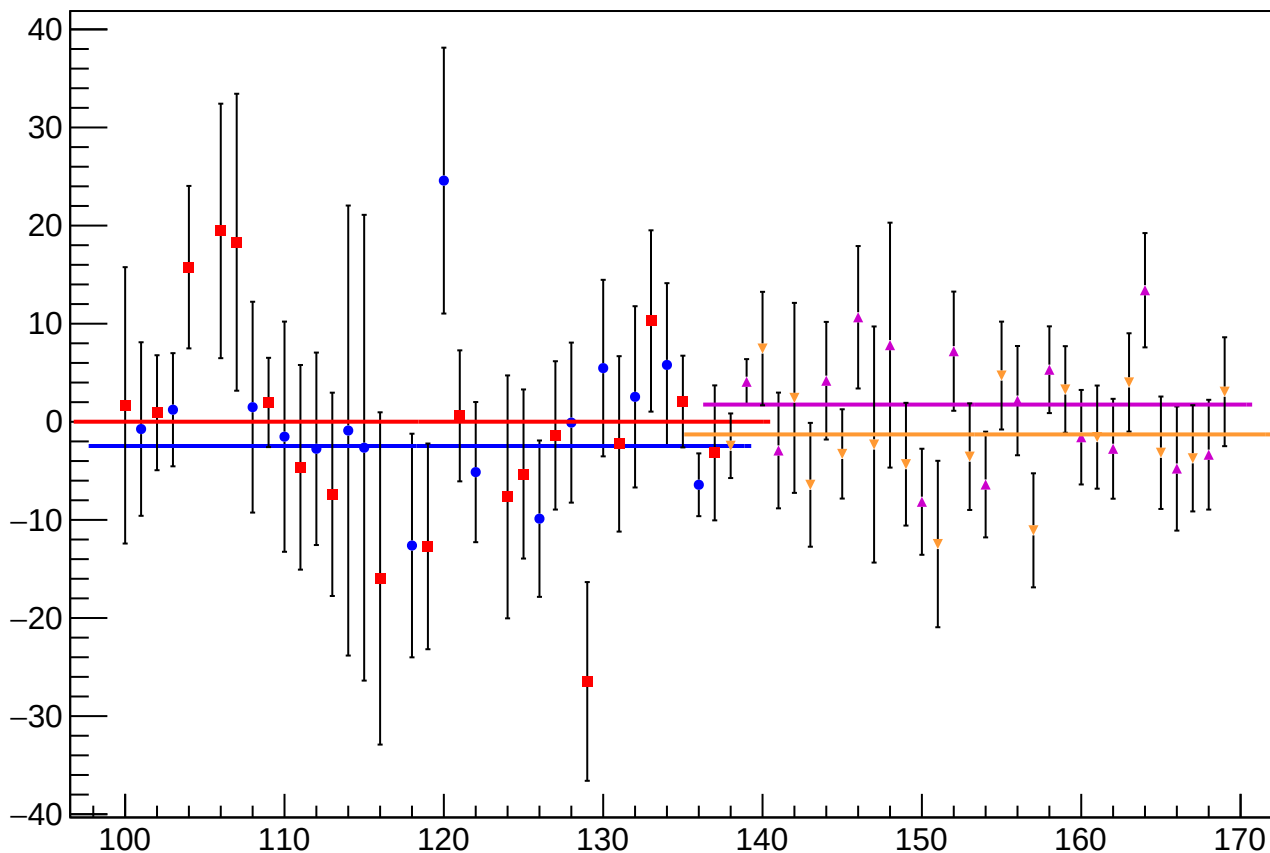
Right: 28850.024 $\pm$ 5.367 χ^2 /NDF: 384182.4/34

In: 29965.598 $\pm$ 4.886 χ^2 /NDF: 1435004.9/30

Out: 29560.729 $\pm$ 4.651 χ^2 /NDF: 1040134.4/35

All: 29753.212 $\pm$ 3.369 χ^2 /NDF: 2478741.3/6

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -2.467 ± 1.916 χ^2/NDF : 10.0/15

Left Out: -1.287 ± 1.320 χ^2/NDF : 12.7/16

Right Out: 0.009 ± 1.828 χ^2/NDF : 20.0/18

Left In: 1.755 ± 1.273 χ^2/NDF : 17.8/14

Left: 0.289 ± 0.917 χ^2/NDF : 33.3/31

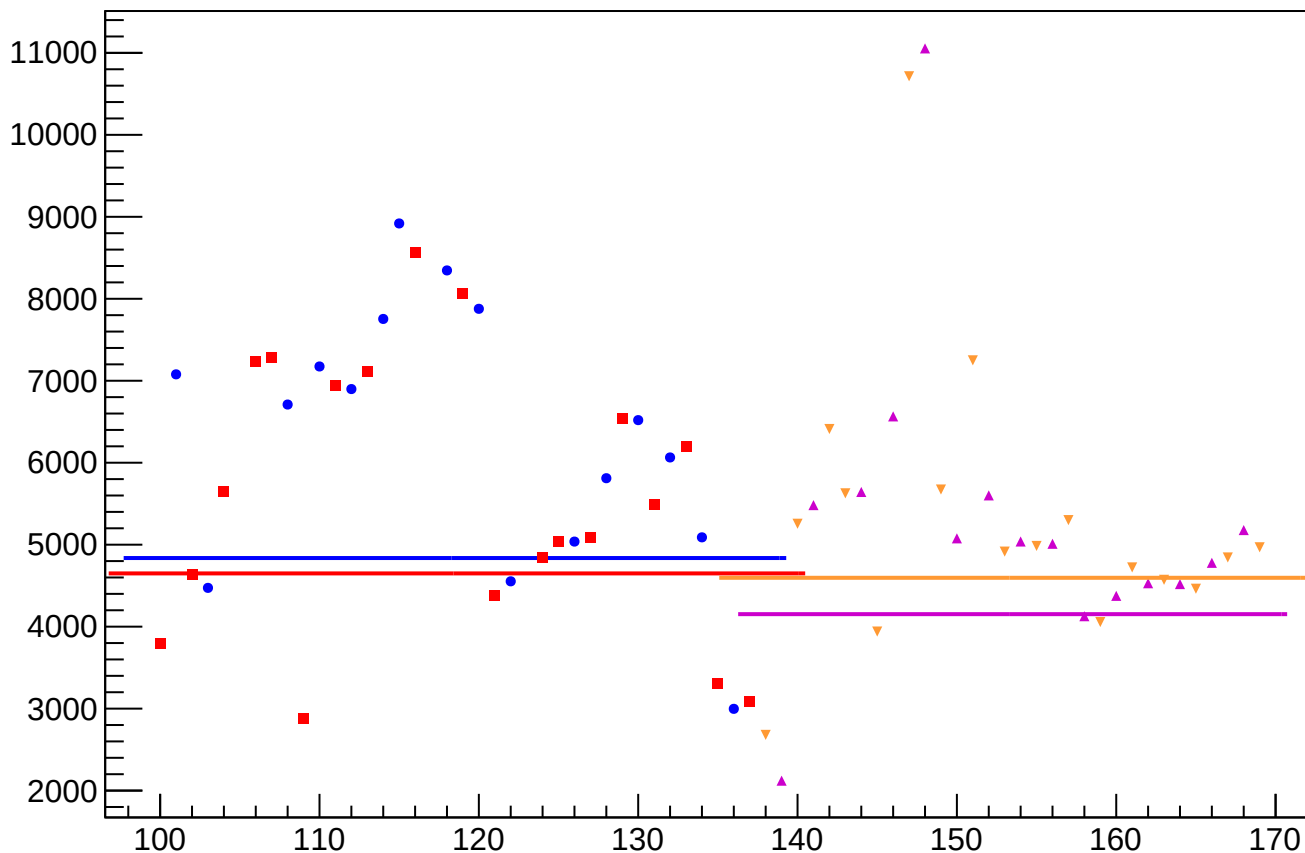
Right: -1.171 ± 1.323 χ^2/NDF : 30.9/34

In: 0.461 ± 1.060 χ^2/NDF : 31.2/30

Out: -0.842 ± 1.070 χ^2/NDF : 33.0/35

All: -0.185 ± 0.753 χ^2/NDF : 65.0/66

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 4837.176+/-1.355 χ^2/NDF : 1547766.9/15

Left Out: 4596.159+/-0.934 χ^2/NDF : 1732239.7/16

Right Out: 4649.613+/-1.293 χ^2/NDF : 1434548.7/18

Left In: 4152.540+/-0.900 χ^2/NDF : 2990311.9/14

Left: 4366.281+/-0.648 χ^2/NDF : 4839518.9/31

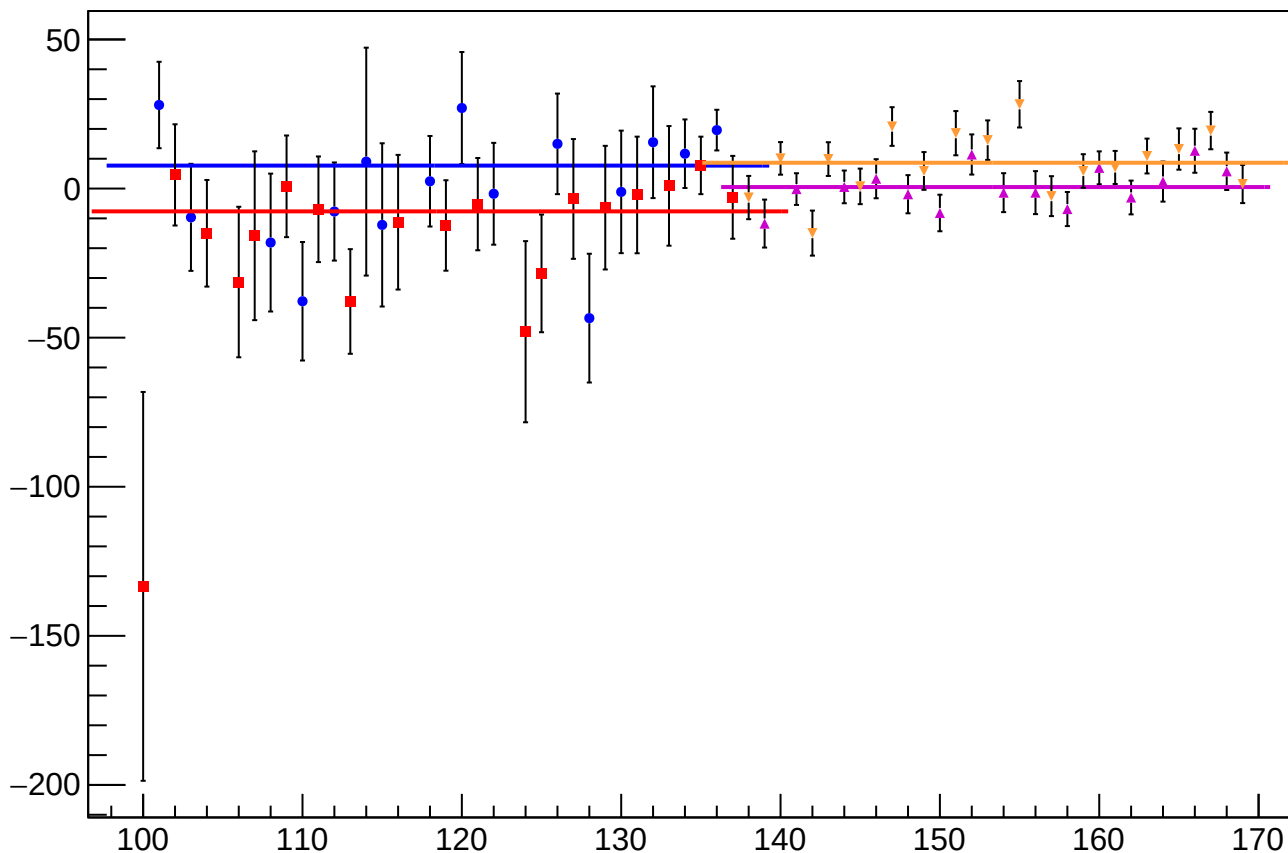
Right: 4739.013+/-0.935 χ^2/NDF : 2992350.1/34

In: 4362.332+/-0.750 χ^2/NDF : 4715258.5/30

Out: 4614.486+/-0.757 χ^2/NDF : 3167912.0/35

All: 4487.222+/-0.533 χ^2/NDF : 7939181.1/60

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 7.699 ± 3.820 χ^2/NDF : 21.6/15

Left Out: 8.656 ± 1.540 χ^2/NDF : 35.3/16

Right Out: -7.650 ± 4.099 χ^2/NDF : 14.6/18

Left In: 0.503 ± 1.614 χ^2/NDF : 14.4/14

Left: 4.772 ± 1.114 χ^2/NDF : 63.0/31

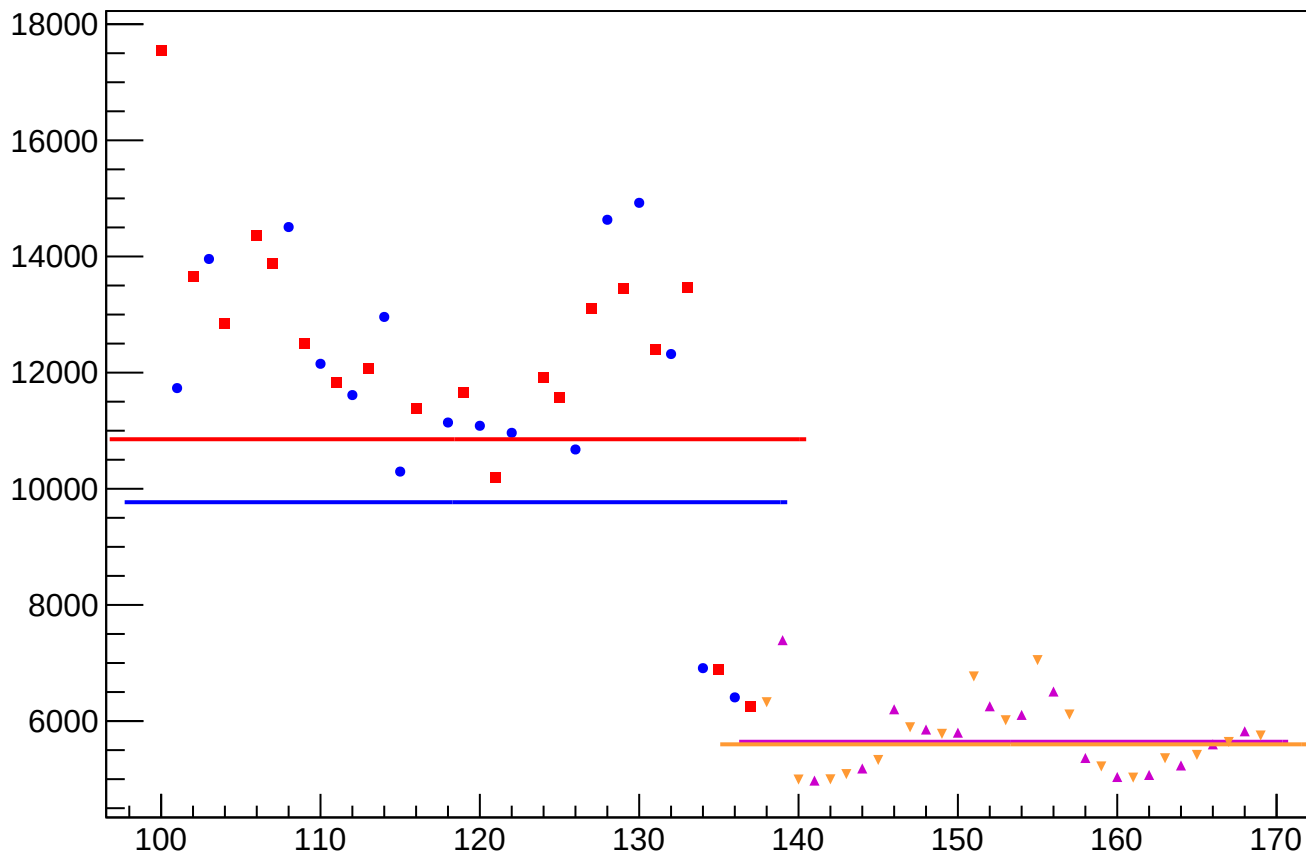
Right: 0.565 ± 2.795 χ^2/NDF : 43.7/34

In: 1.593 ± 1.487 χ^2/NDF : 39.0/30

Out: 6.640 ± 1.441 χ^2/NDF : 63.7/35

All: 4.195 ± 1.035 χ^2/NDF : 108.7/66

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 9768.772 +/- 2.701 χ^2/NDF : 1213694.6/15

Left Out: 5599.788 +/- 1.089 χ^2/NDF : 258691.6/16

Right Out: 10852.989 +/- 2.899 χ^2/NDF : 874500.2/18

Left In: 5643.920 +/- 1.141 χ^2/NDF : 272228.3/14

Left: 5620.811 +/- 0.788 χ^2/NDF : 531702.6/31

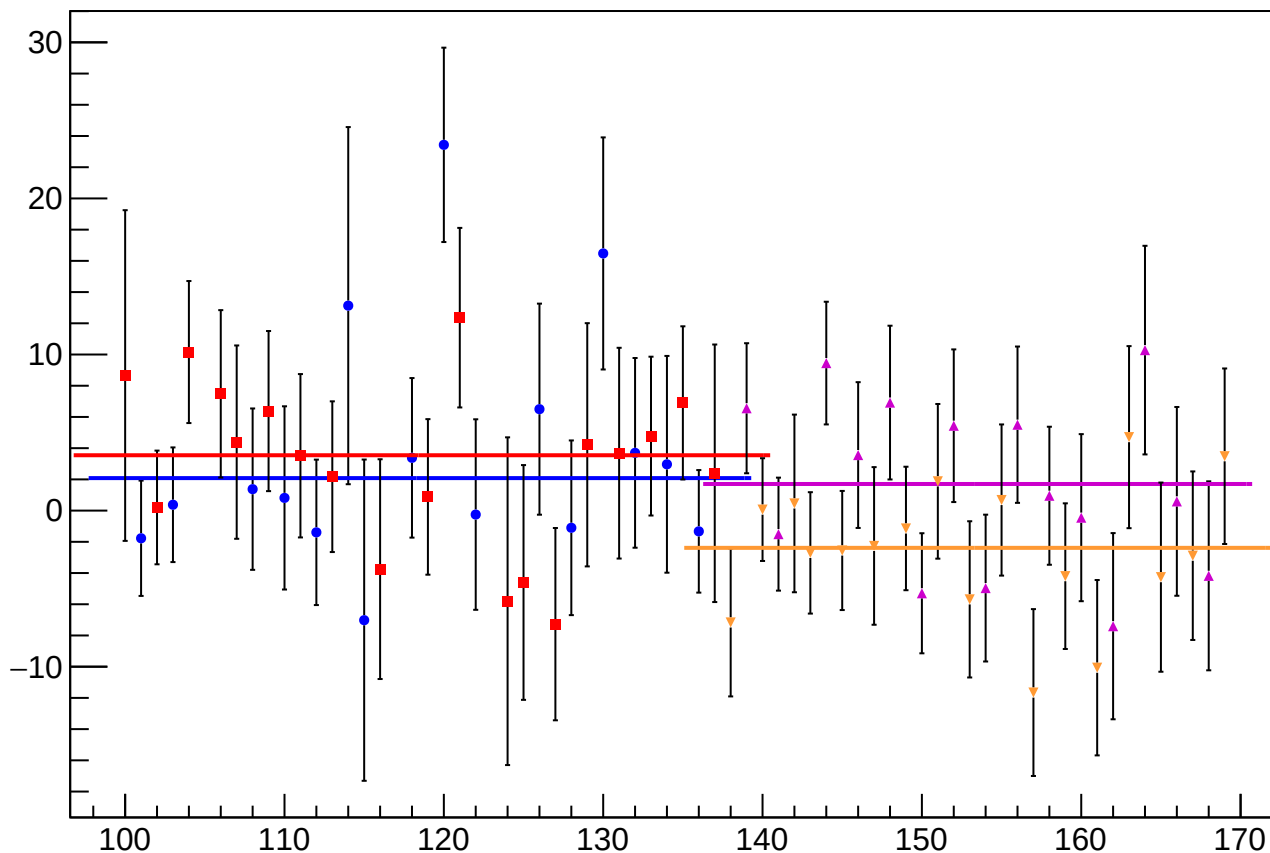
Right: 10272.667 +/- 1.976 χ^2/NDF : 2163082.8/34

In: 6269.008 +/- 1.051 χ^2/NDF : 3464726.2/30

Out: 6249.286 +/- 1.019 χ^2/NDF : 4011640.6/35

All: 6258.840 +/- 0.732 χ^2/NDF : 7476548.1/66

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: 2.082 ± 1.345 $\chi^2/\text{NDF}: 21.0/15$

Left Out: -2.387 ± 1.144 $\chi^2/\text{NDF}: 11.2/16$

Right Out: 3.546 ± 1.304 $\chi^2/\text{NDF}: 13.4/18$

Left In: 1.705 ± 1.220 $\chi^2/\text{NDF}: 18.9/14$

Left: -0.473 ± 0.835 $\chi^2/\text{NDF}: 36.1/31$

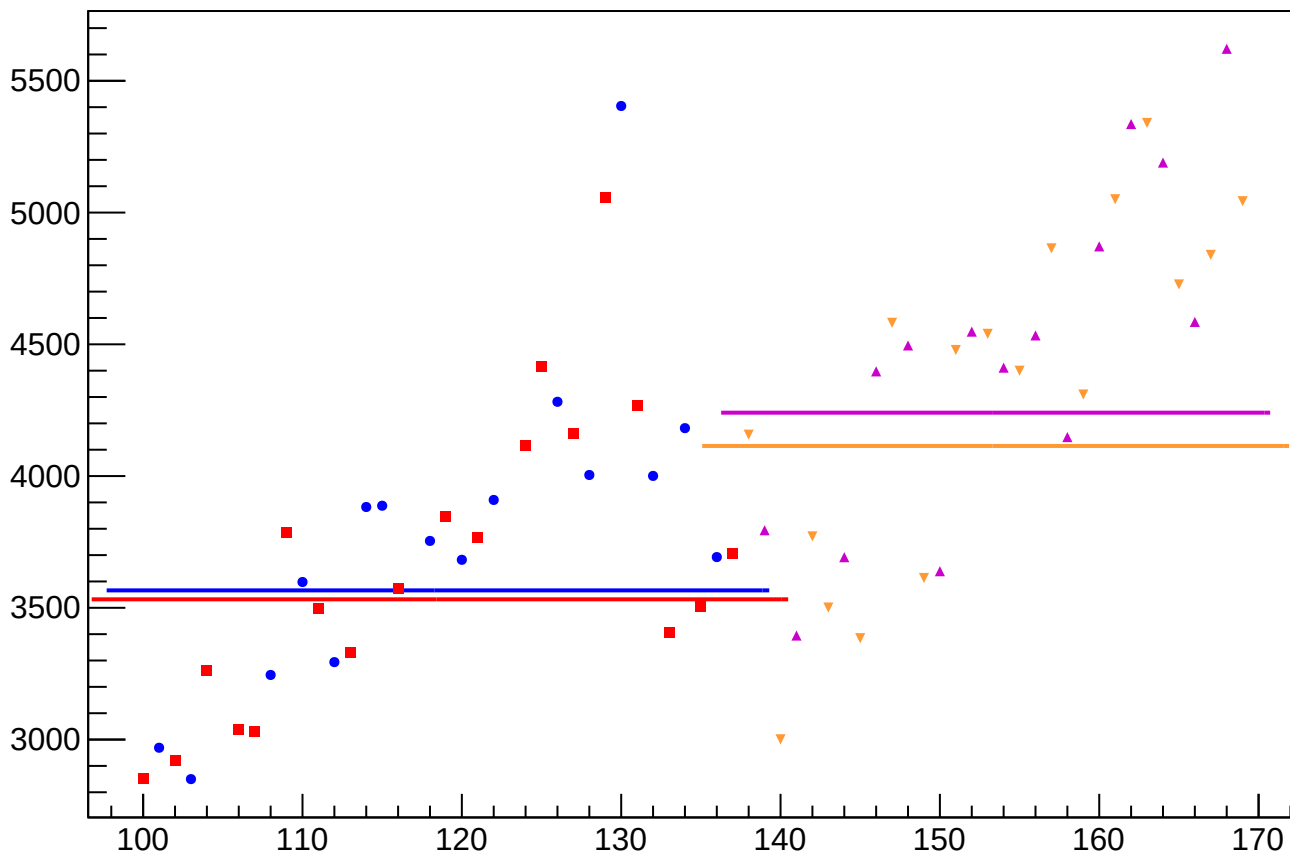
Right: 2.837 ± 0.936 $\chi^2/\text{NDF}: 35.0/34$

In: 1.875 ± 0.904 $\chi^2/\text{NDF}: 39.9/30$

Out: 0.193 ± 0.860 $\chi^2/\text{NDF}: 36.3/35$

All: 0.992 ± 0.623 $\chi^2/\text{NDF}: 78.1/66$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 3566.150+/-0.951 χ^2/NDF : 341105.5/15

Left Out: 4114.280+/-0.809 χ^2/NDF : 738563.7/16

Right Out: 3532.189+/-0.922 χ^2/NDF : 278693.0/18

Left In: 4240.571+/-0.863 χ^2/NDF : 492137.4/14

Left: 4173.347+/-0.590 χ^2/NDF : 1242101.7/31

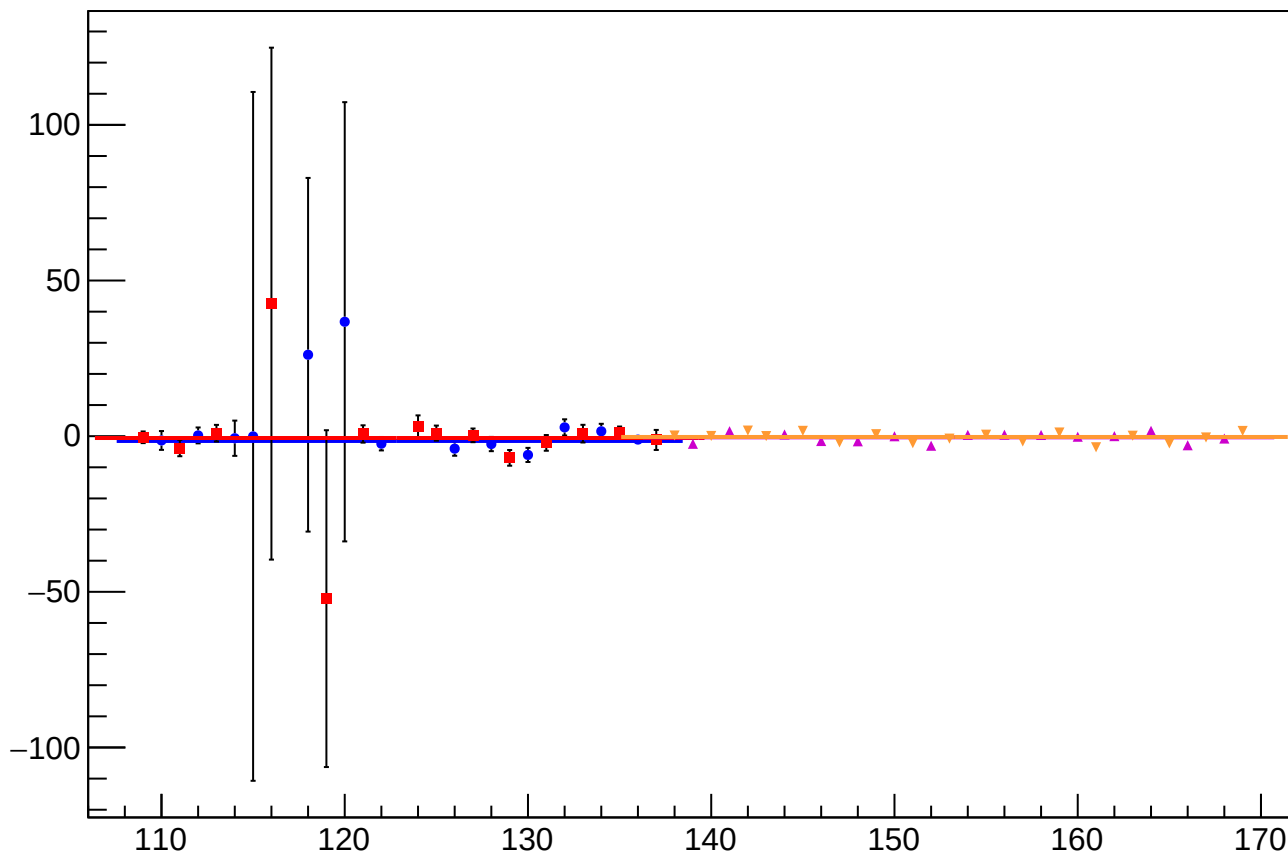
Right: 3548.642+/-0.662 χ^2/NDF : 620455.5/34

In: 3936.120+/-0.639 χ^2/NDF : 1108971.0/30

Out: 3861.170+/-0.608 χ^2/NDF : 1242430.0/35

All: 3896.781+/-0.441 χ^2/NDF : 2358618.6/66

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -1.536 ± 0.733 χ^2/NDF : 11.1/12

Left Out: -0.255 ± 0.278 χ^2/NDF : 29.3/16

Right Out: -0.588 ± 0.717 χ^2/NDF : 12.7/13

Left In: -0.371 ± 0.290 χ^2/NDF : 24.0/14

Left: -0.311 ± 0.201 χ^2/NDF : 53.4/31

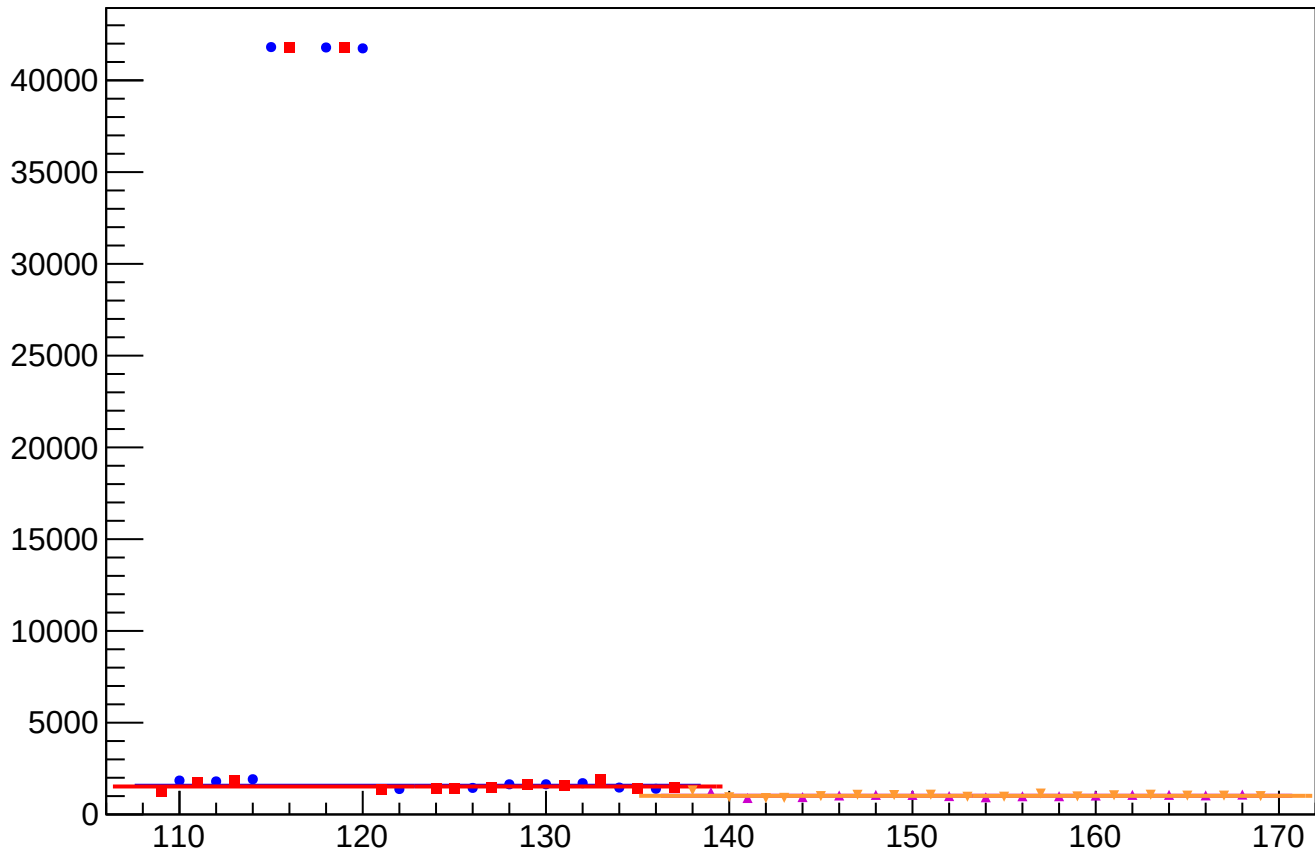
Right: -1.051 ± 0.512 χ^2/NDF : 24.6/26

In: -0.529 ± 0.270 χ^2/NDF : 37.2/27

Out: -0.299 ± 0.260 χ^2/NDF : 42.2/30

All: -0.410 ± 0.187 χ^2/NDF : 79.8/58

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1564.307 $\pm$ 0.518 χ^2 /NDF: 2016990.6/12

Left Out: 1015.137 $\pm$ 0.197 χ^2 /NDF: 177939.5/16

Right Out: 1523.678 $\pm$ 0.507 χ^2 /NDF: 1739658.0/13

Left In: 1018.414 $\pm$ 0.205 χ^2 /NDF: 121969.9/14

Left: 1016.707 $\pm$ 0.142 χ^2 /NDF: 300042.0/31

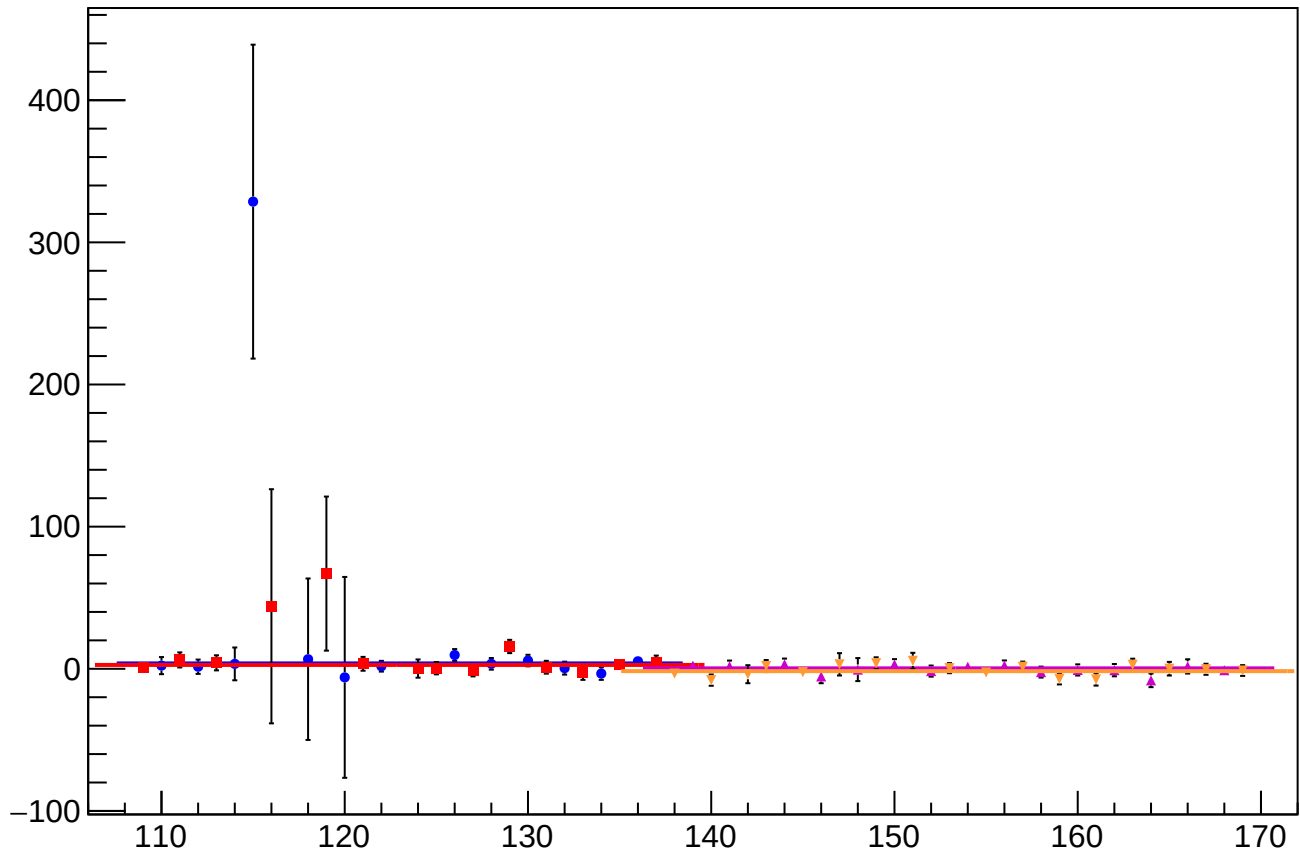
Right: 1543.555 $\pm$ 0.362 χ^2 /NDF: 3759789.5/26

In: 1092.529 $\pm$ 0.191 χ^2 /NDF: 3098376.4/27

Out: 1081.756 $\pm$ 0.184 χ^2 /NDF: 2791667.9/30

All: 1086.930 $\pm$ 0.132 χ^2 /NDF: 5891699.2/58

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 3.777 $\pm$ 1.248 χ^2/NDF : 15.2/12

Left Out: -1.655 $\pm$ 0.933 χ^2/NDF :14.2/16

Right Out: 2.709 $\pm$ 1.211 χ^2/NDF : 13.6/13

Left In: 0.313 $\pm$ 0.975 χ^2/NDF :8.0/14

Left: -0.714 $\pm$ 0.674 χ^2/NDF : 24.3/31

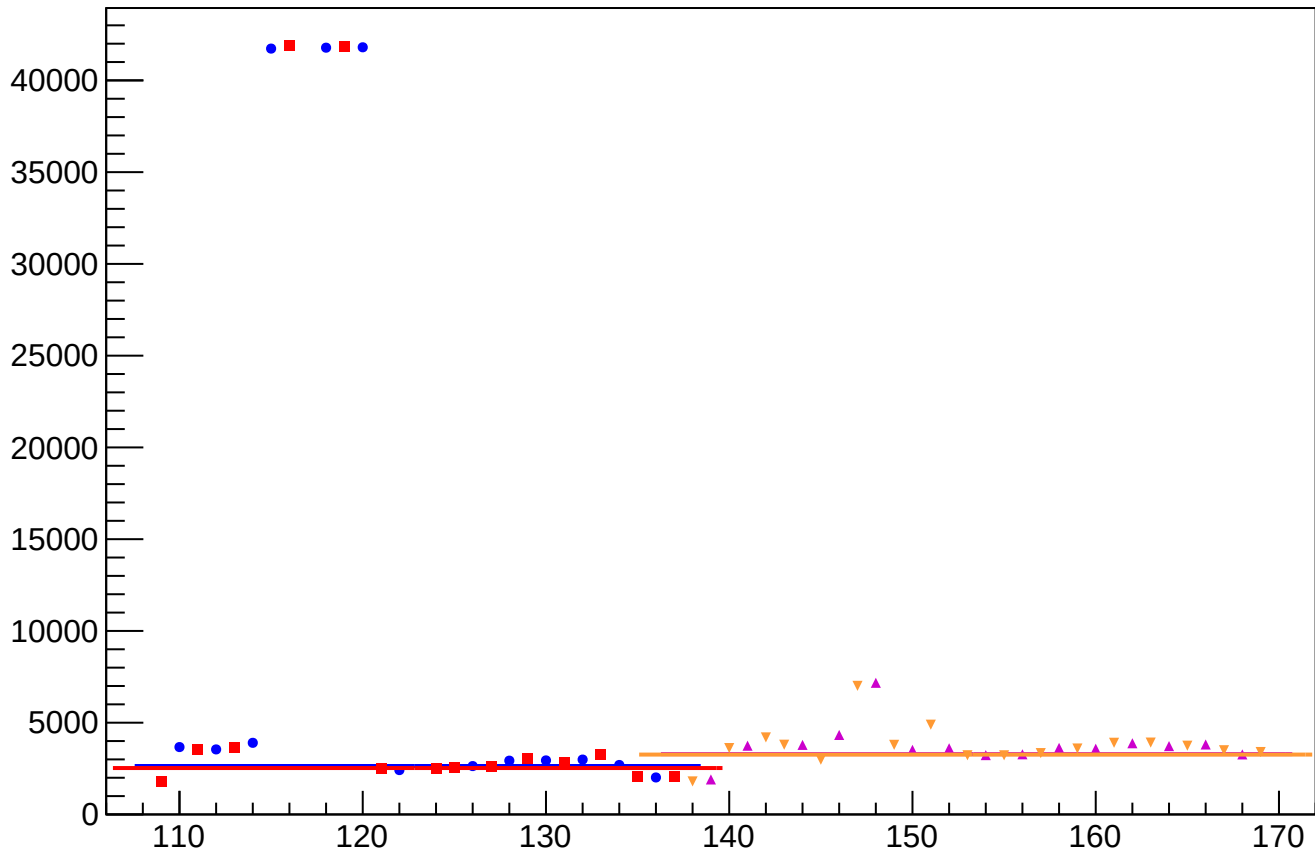
Right: 3.227 $\pm$ 0.869 χ^2/NDF : 29.2/26

In: 1.626 $\pm$ 0.769 χ^2/NDF :27.9/27

Out: -0.029 $\pm$ 0.739 χ^2/NDF :35.9/30

All: 0.766 $\pm$ 0.533 χ^2/NDF : 66.3/58

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2639.943+/-0.883 χ^2/NDF : 2173395.1/12

Left Out: 3262.648+/-0.660 χ^2/NDF : 1869597.1/16

Right Out: 2529.018+/-0.856 χ^2/NDF : 1949928.1/13

Left In: 3288.135+/-0.690 χ^2/NDF : 1590163.7/14

Left: 3274.829+/-0.477 χ^2/NDF : 3460473.7/31

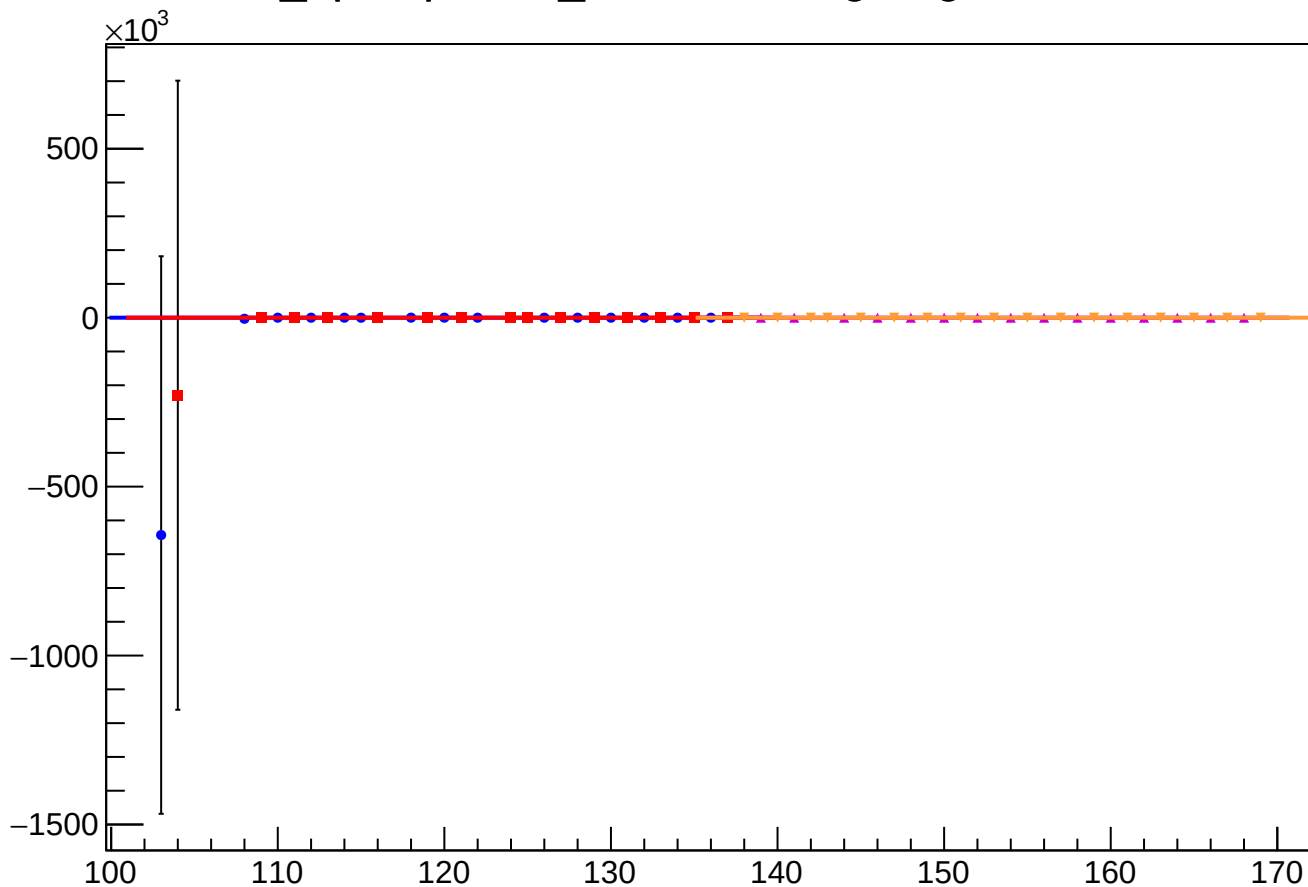
Right: 2582.794+/-0.615 χ^2/NDF : 4131459.2/26

In: 3042.411+/-0.543 χ^2/NDF : 4098374.8/27

Out: 2989.270+/-0.523 χ^2/NDF : 4280065.8/30

All: 3014.805+/-0.377 χ^2/NDF : 8383407.4/58

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -1.215 $\pm$ 1.125 χ^2 /NDF: 18.8/14

Left Out: -2.119 $\pm$ 0.435 χ^2 /NDF:31.2/16

Right Out: 2.670 $\pm$ 1.211 χ^2 /NDF: 14.4/14

Left In: -0.187 $\pm$ 0.455 χ^2 /NDF:17.1/14

Left: -1.196 $\pm$ 0.314 χ^2 /NDF: 57.8/31

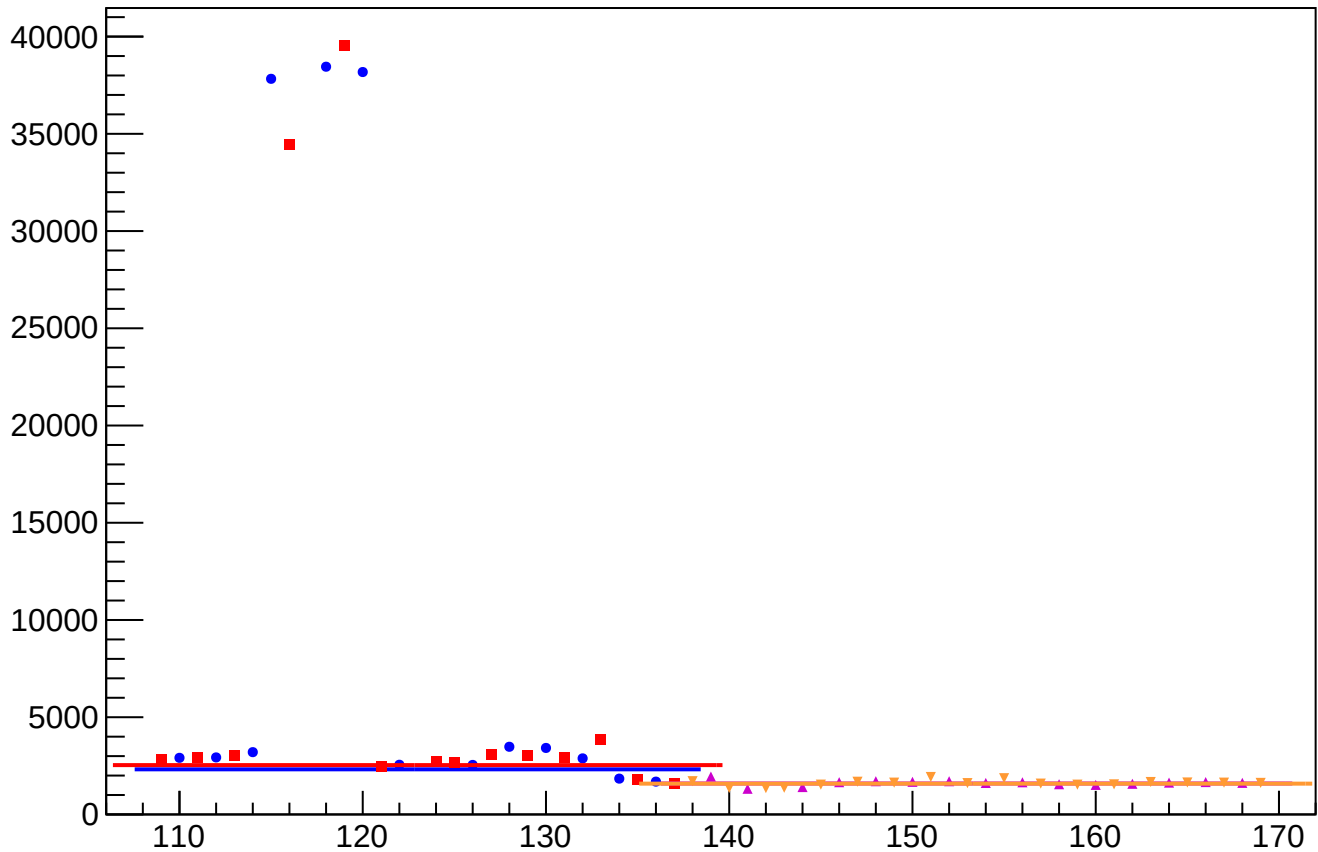
Right: 0.585 $\pm$ 0.824 χ^2 /NDF: 38.7/29

In: -0.331 $\pm$ 0.422 χ^2 /NDF:36.6/29

Out: -1.572 $\pm$ 0.409 χ^2 /NDF:59.5/31

All: -0.970 $\pm$ 0.294 χ^2 /NDF: 100.6/61

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2320.446 $\pm$ 0.796 χ^2 /NDF: 2461445.1/12

Left Out: 1584.371 $\pm$ 0.308 χ^2 /NDF: 228334.5/16

Right Out: 2537.615 $\pm$ 0.856 χ^2 /NDF: 2038153.2/13

Left In: 1592.310 $\pm$ 0.322 χ^2 /NDF: 195114.3/14

Left: 1588.164 $\pm$ 0.222 χ^2 /NDF: 423766.9/31

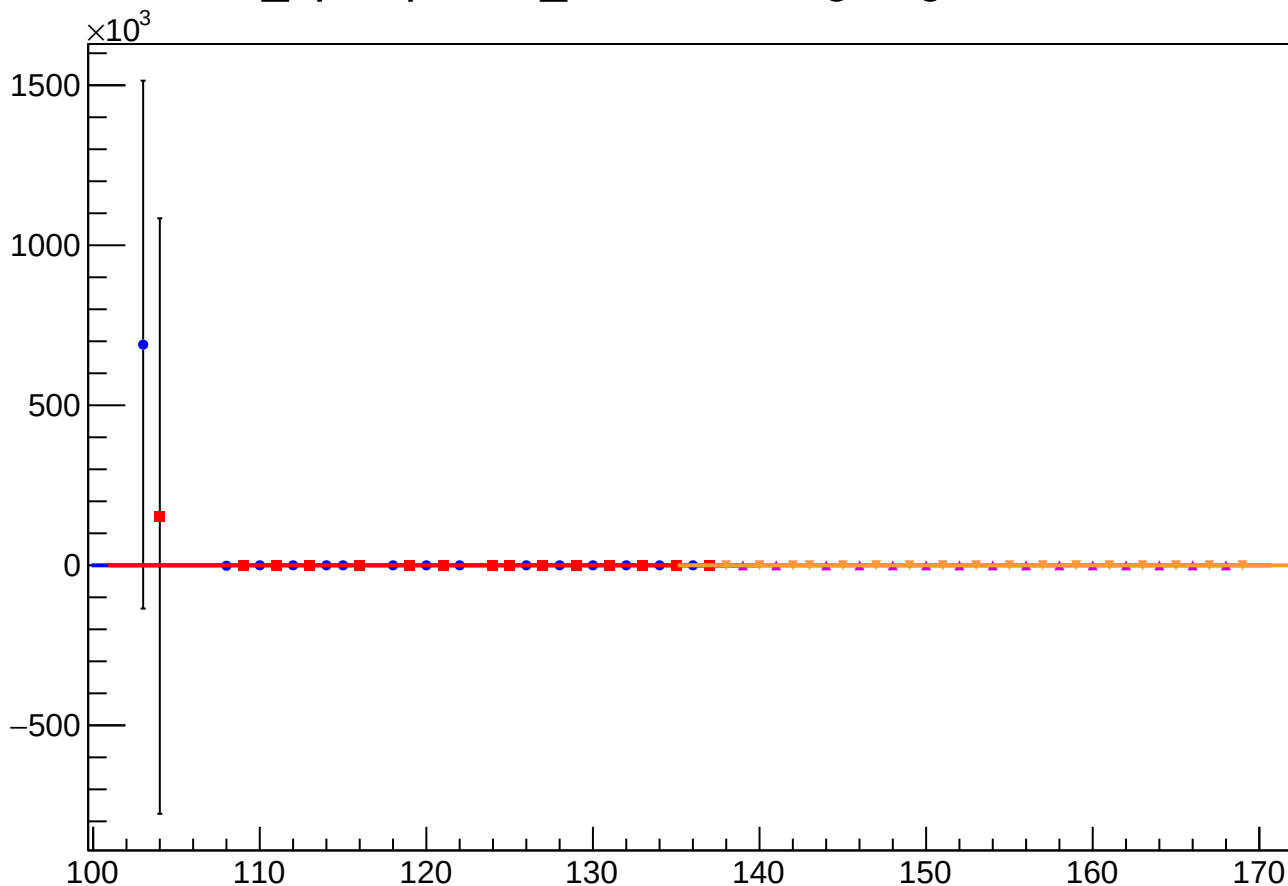
Right: 2421.061 $\pm$ 0.583 χ^2 /NDF: 4534110.8/26

In: 1694.584 $\pm$ 0.298 χ^2 /NDF: 3376348.0/27

Out: 1693.313 $\pm$ 0.290 χ^2 /NDF: 3363849.5/30

All: 1693.930 $\pm$ 0.208 χ^2 /NDF: 6740206.8/58

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 1.708 ± 1.076 $\chi^2/\text{NDF}: 5.0/14$

Left Out: -0.789 ± 0.603 $\chi^2/\text{NDF}: 17.8/16$

Right Out: 1.893 ± 1.052 $\chi^2/\text{NDF}: 15.3/14$

Left In: -0.192 ± 0.601 $\chi^2/\text{NDF}: 9.4/14$

Left: -0.489 ± 0.425 $\chi^2/\text{NDF}: 27.6/31$

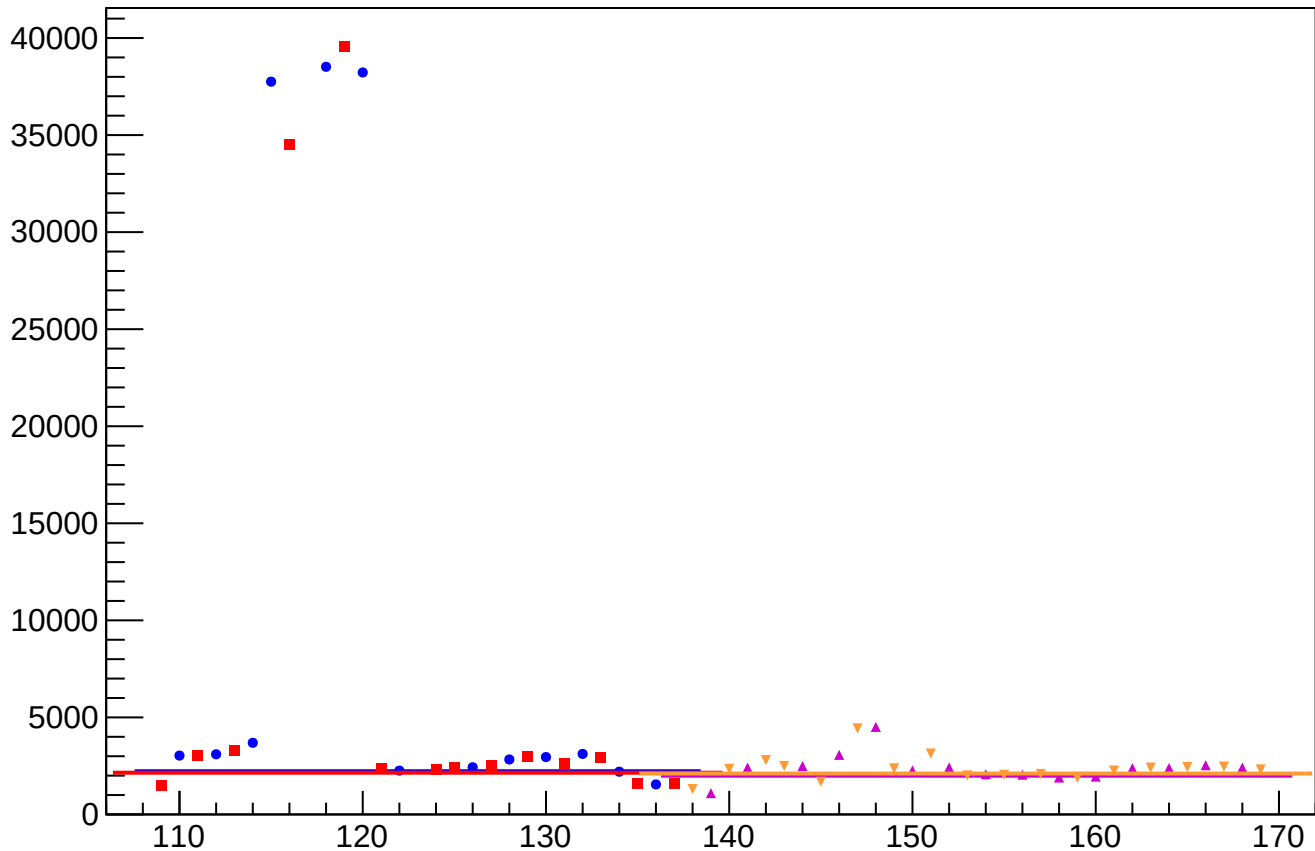
Right: 1.803 ± 0.752 $\chi^2/\text{NDF}: 20.3/29$

In: 0.260 ± 0.525 $\chi^2/\text{NDF}: 16.8/29$

Out: -0.126 ± 0.523 $\chi^2/\text{NDF}: 38.0/31$

All: 0.066 ± 0.370 $\chi^2/\text{NDF}: 55.0/61$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 2226.944+/-0.761 χ^2/NDF : 2522286.5/12

Left Out: 2108.739+/-0.426 χ^2/NDF : 1454151.0/16

Right Out: 2150.841+/-0.744 χ^2/NDF : 2231322.0/13

Left In: 1997.035+/-0.425 χ^2/NDF : 2209549.5/14

Left: 2052.725+/-0.301 χ^2/NDF : 3698162.0/31

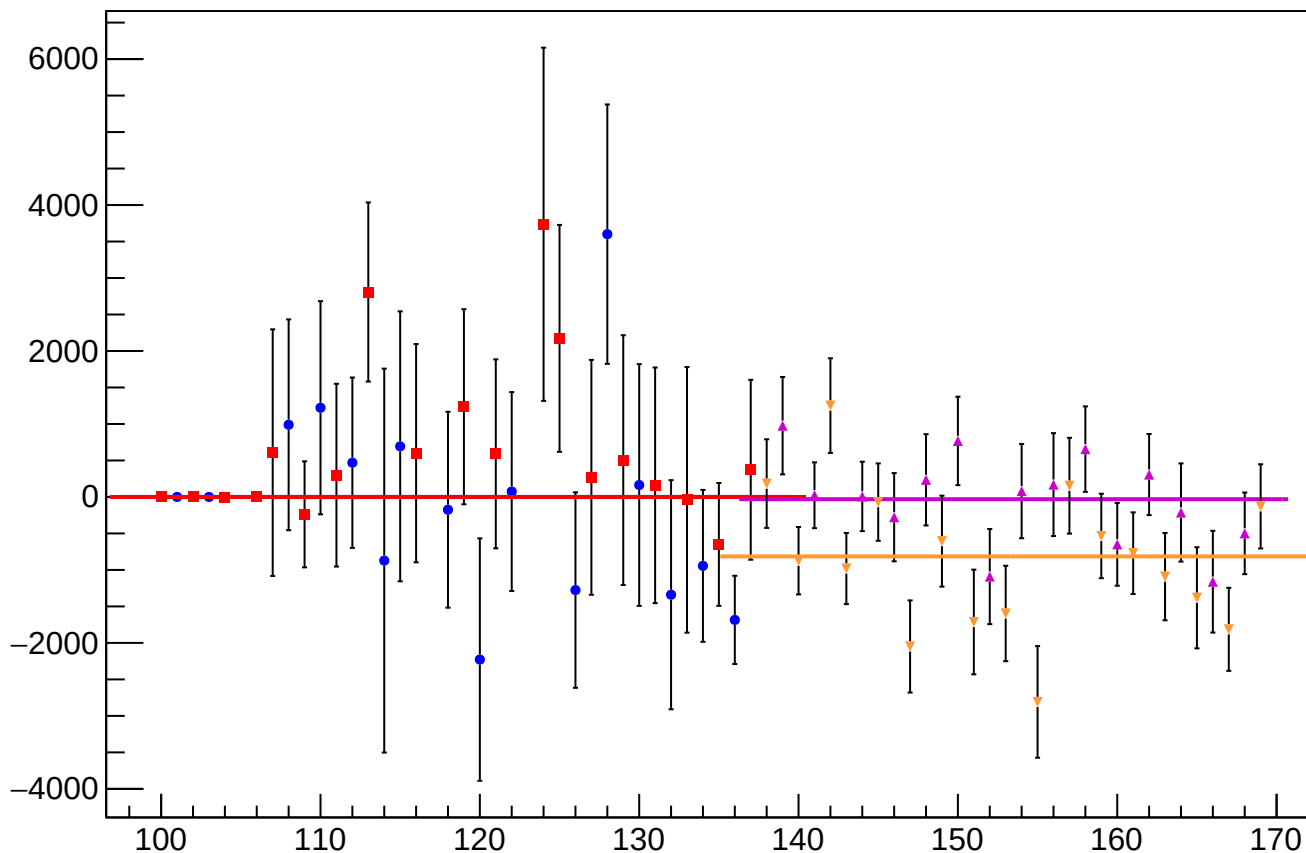
Right: 2188.011+/-0.532 χ^2/NDF : 4758723.2/26

In: 2051.656+/-0.371 χ^2/NDF : 4801403.1/27

Out: 2119.145+/-0.370 χ^2/NDF : 3687885.9/30

All: 2085.516+/-0.262 χ^2/NDF : 8505892.6/58

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.255 $\pm$ 0.356 χ^2/NDF : 17.7/15

Left Out: -814.813 $\pm$ 144.202 χ^2/NDF : 36.5/16

Right Out: -0.096 $\pm$ 0.328 χ^2/NDF : 15.4/18

Left In: -30.697 $\pm$ 152.345 χ^2/NDF : 13.5/14

Left: -444.269 $\pm$ 104.727 χ^2/NDF : 63.9/31

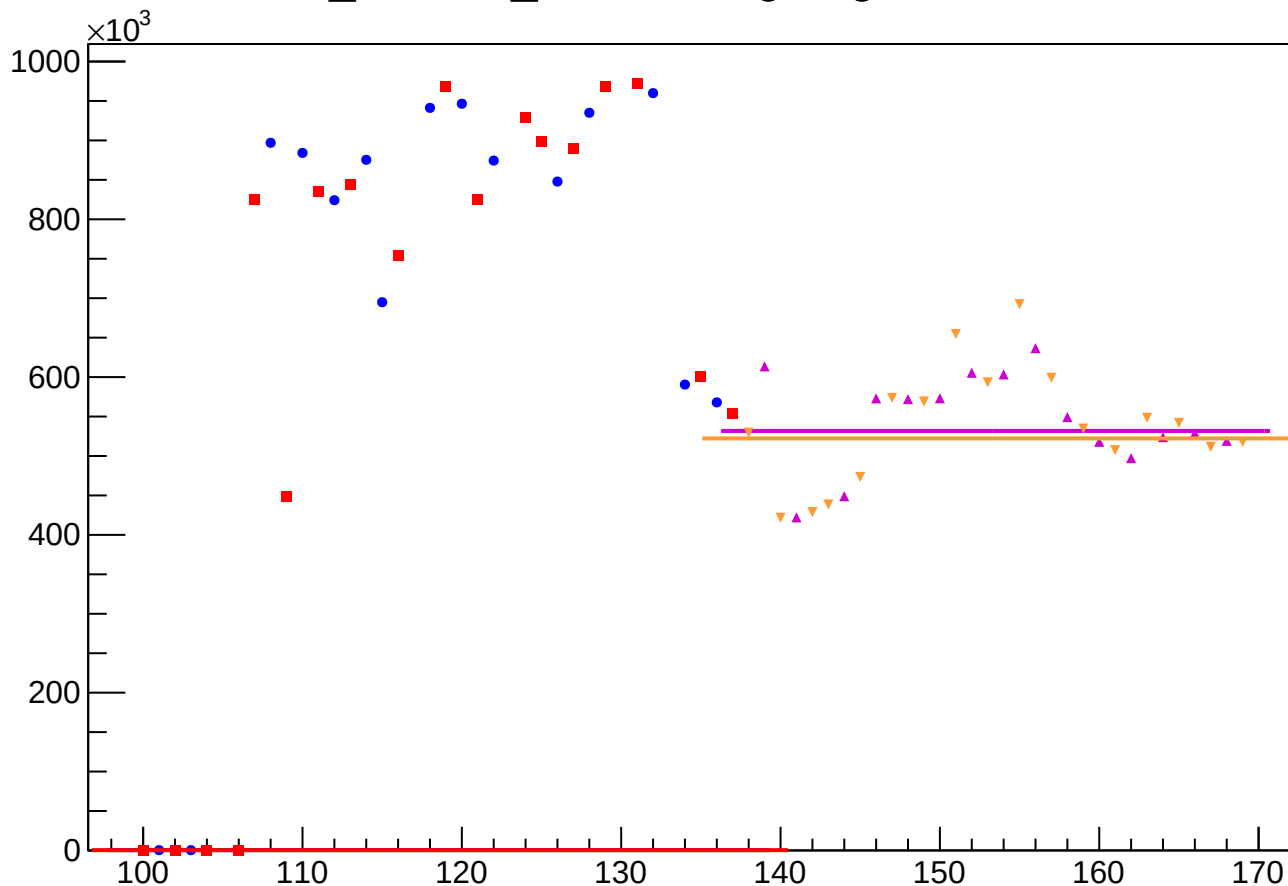
Right: 0.065 $\pm$ 0.241 χ^2/NDF : 33.7/34

In: 0.255 $\pm$ 0.356 χ^2/NDF : 31.3/30

Out: -0.100 $\pm$ 0.328 χ^2/NDF : 83.8/35

All: 0.063 $\pm$ 0.241 χ^2/NDF : 115.6/66

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 398.881+/-0.251 χ^2/NDF : 8491830.9/14

Left Out: 522246.105+/-101.966 χ^2/NDF : 463949.9/16

Right Out: 393.240+/-0.232 χ^2/NDF : 7648578.2/17

Left In: 531737.114+/-107.724 χ^2/NDF : 341965.9/14

Left: 526731.210+/-74.053 χ^2/NDF : 810010.0/31

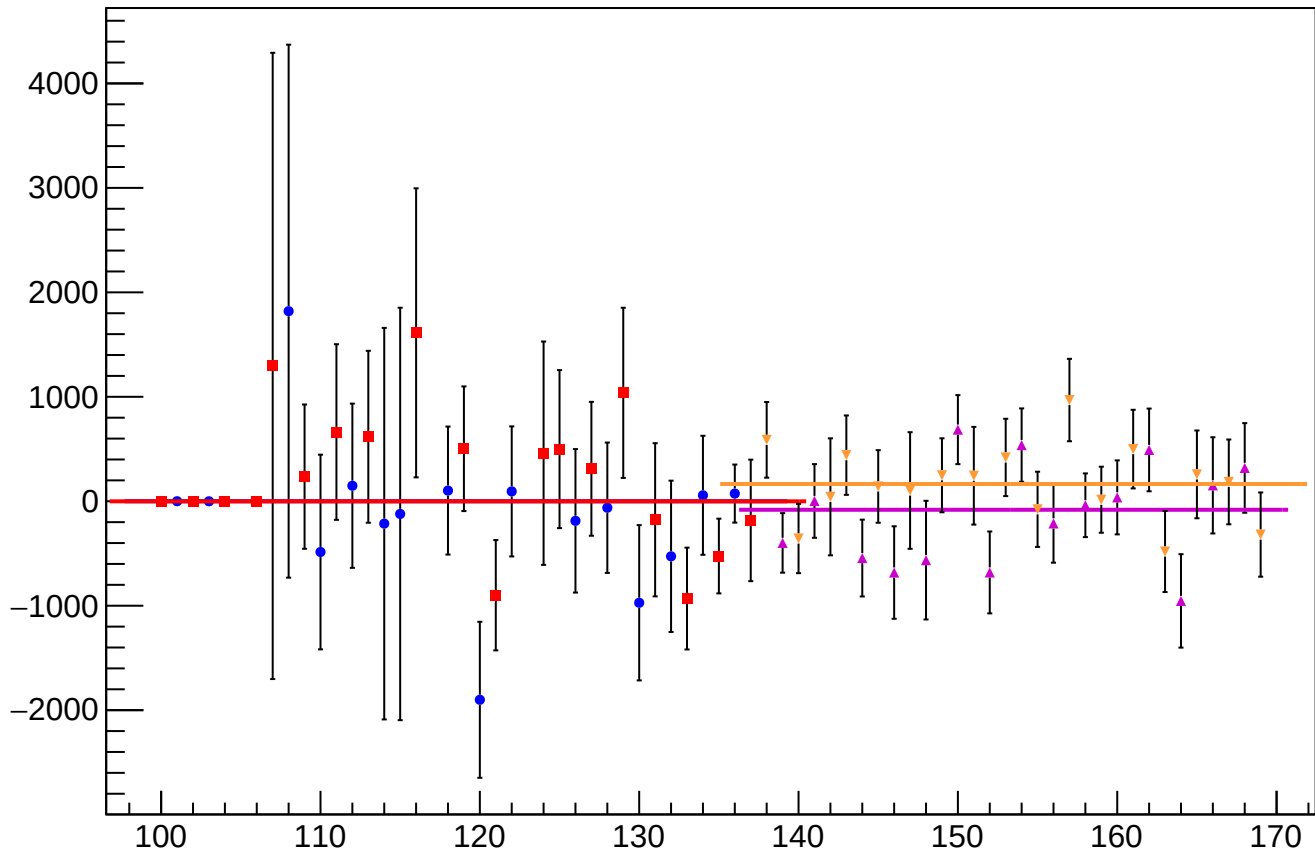
Right: 395.831+/-0.170 χ^2/NDF : 16140681.1/32

In: 401.777+/-0.251 χ^2/NDF : 33162275.7/29

Out: 395.936+/-0.232 χ^2/NDF : 34305147.0/34

All: 398.619+/-0.170 χ^2/NDF : 67467714.4/64

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: -0.020 ± 0.347 χ^2/NDF : 10.5/15

Left Out: 165.294 ± 93.705 χ^2/NDF : 14.9/16

Right Out: -0.599 ± 0.324 χ^2/NDF : 15.0/18

Left In: -81.537 ± 96.640 χ^2/NDF : 23.6/14

Left: 45.684 ± 67.273 χ^2/NDF : 41.8/31

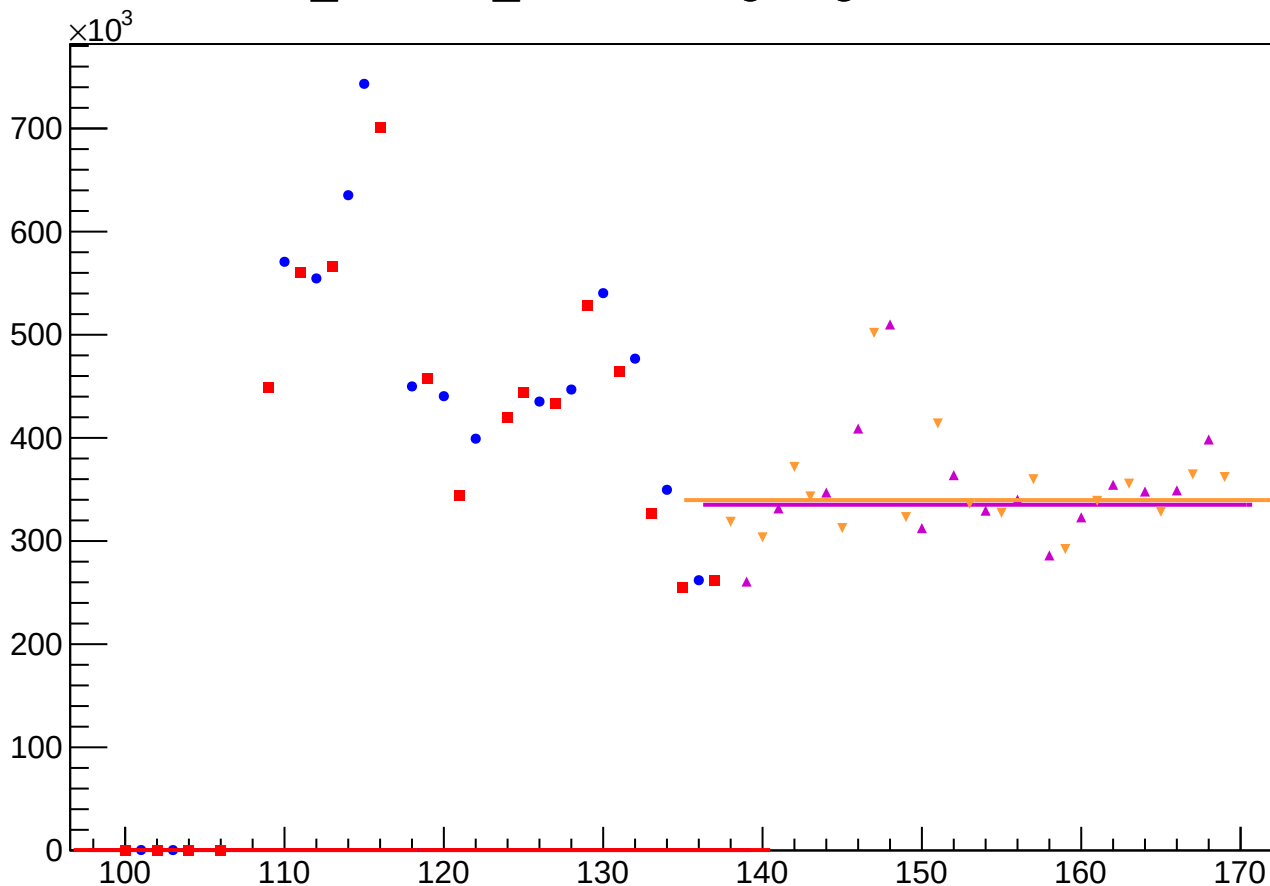
Right: -0.330 ± 0.237 χ^2/NDF : 27.0/34

In: -0.022 ± 0.347 χ^2/NDF : 34.7/30

Out: -0.597 ± 0.324 χ^2/NDF : 33.0/35

All: -0.329 ± 0.237 χ^2/NDF : 69.2/66

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 390.276 $\pm$ 0.245 χ^2 /NDF: 11132240.7/14

Left Out: 339698.110 $\pm$ 66.259 χ^2 /NDF:344353.4/16

Right Out: 387.984 $\pm$ 0.229 χ^2 /NDF: 11074302.3/17

Left In: 335191.068 $\pm$ 68.340 χ^2 /NDF:510931.7/14

Left: 337514.228 $\pm$ 47.571 χ^2 /NDF: 857527.1/31

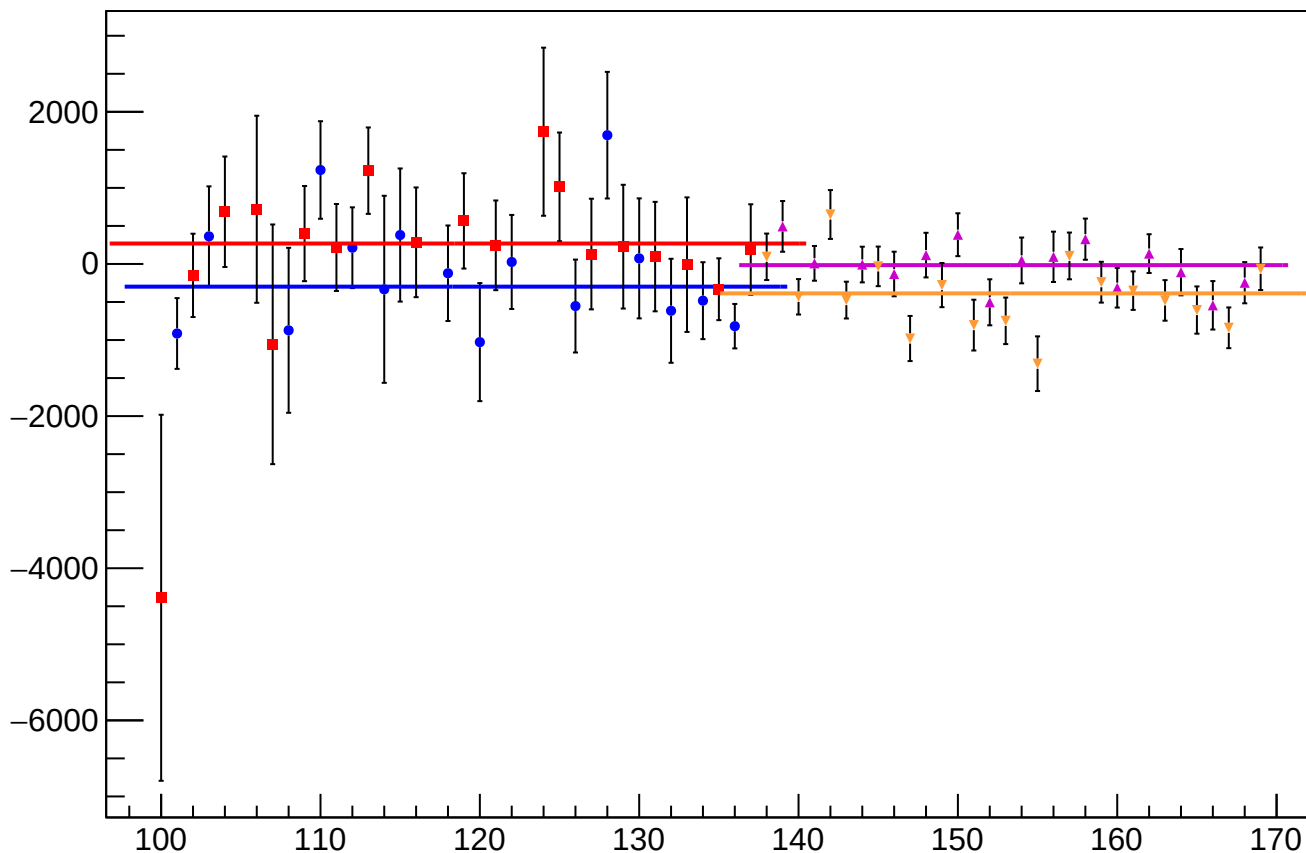
Right: 389.050 $\pm$ 0.167 χ^2 /NDF: 22206589.6/32

In: 394.594 $\pm$ 0.245 χ^2 /NDF:35643776.3/29

Out: 392.036 $\pm$ 0.229 χ^2 /NDF:37642305.5/34

All: 393.226 $\pm$ 0.167 χ^2 /NDF: 73286139.8/64

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -298.263 ± 147.367 χ^2/NDF : 21.2/15

Left Out: -386.791 ± 68.577 χ^2/NDF : 36.4/16

Right Out: 268.892 ± 156.582 χ^2/NDF : 13.9/18

Left In: -15.346 ± 72.275 χ^2/NDF : 14.3/14

Left: -210.815 ± 49.747 χ^2/NDF : 64.6/31

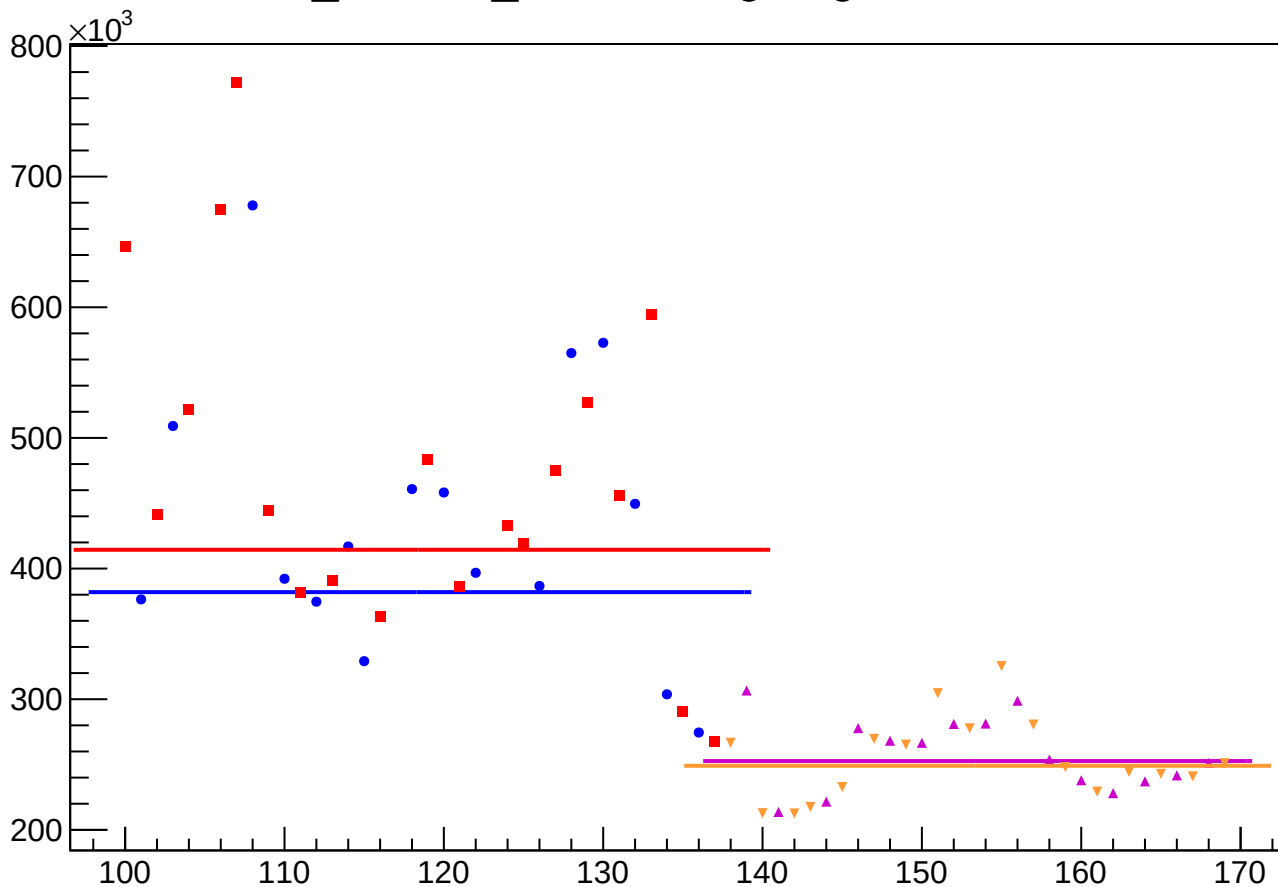
Right: -31.865 ± 107.314 χ^2/NDF : 42.0/34

In: -70.202 ± 64.891 χ^2/NDF : 38.4/30

Out: -281.266 ± 62.816 χ^2/NDF : 64.9/35

All: -179.162 ± 45.134 χ^2/NDF : 108.8/66

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 381960.471 ± 104.223 $\chi^2/\text{NDF}: 836441.6/15$

Left Out: 249048.628 ± 48.491 $\chi^2/\text{NDF}: 338570.7/16$

Right Out: 414378.043 ± 110.748 $\chi^2/\text{NDF}: 760082.5/18$

Left In: 252678.015 ± 51.106 $\chi^2/\text{NDF}: 278490.2/14$

Left: 250768.087 ± 35.177 $\chi^2/\text{NDF}: 619714.9/31$

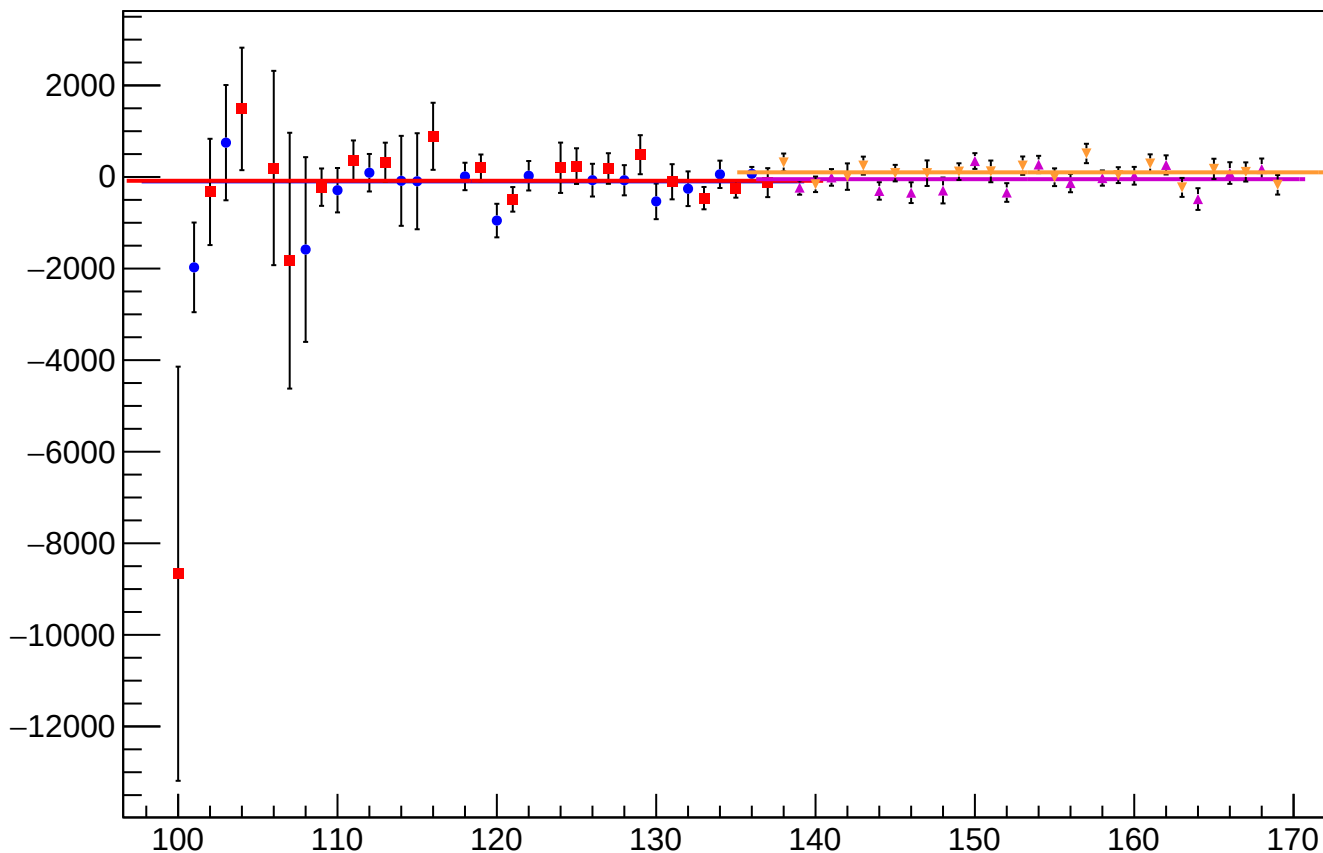
Right: 397186.164 ± 75.899 $\chi^2/\text{NDF}: 1641963.2/34$

In: 277737.996 ± 45.886 $\chi^2/\text{NDF}: 2355363.4/30$

Out: 275645.285 ± 44.420 $\chi^2/\text{NDF}: 2968709.9/35$

All: 276657.659 ± 31.915 $\chi^2/\text{NDF}: 5325147.0/69$

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -95.850 ± 88.267 $\chi^2/\text{NDF}: 13.7/15$

Left Out: 101.667 ± 49.369 $\chi^2/\text{NDF}: 14.2/16$

Right Out: -82.750 ± 87.316 $\chi^2/\text{NDF}: 19.1/18$

Left In: -47.895 ± 51.174 $\chi^2/\text{NDF}: 23.1/14$

Left: 29.569 ± 35.530 $\chi^2/\text{NDF}: 41.7/31$

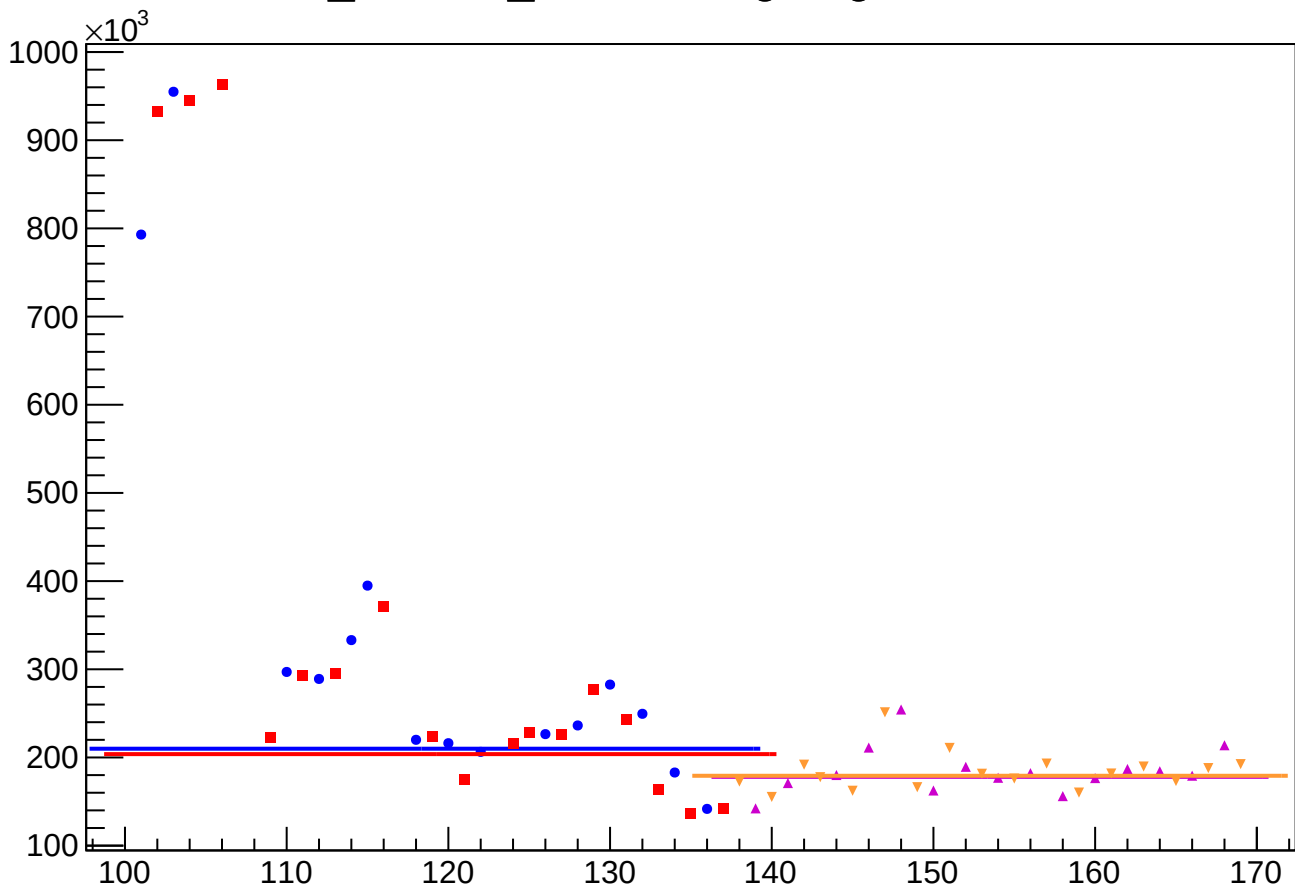
Right: -89.229 ± 62.075 $\chi^2/\text{NDF}: 32.8/34$

In: -59.959 ± 44.271 $\chi^2/\text{NDF}: 37.0/30$

Out: 56.993 ± 42.975 $\chi^2/\text{NDF}: 36.6/35$

All: 0.254 ± 30.836 $\chi^2/\text{NDF}: 77.3/66$

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 209929.195+/-62.523

χ^2/NDF : 1959897.2/14

Left Out: 179239.481+/-34.909

χ^2/NDF : 294160.4/16

Right Out: 203793.382+/-61.895

χ^2/NDF : 2070478.1/16

Left In: 177999.753+/-36.185

χ^2/NDF : 408995.7/14

Left: 178641.861+/-25.123

χ^2/NDF : 703764.1/31

Right: 206830.314+/-43.987

χ^2/NDF : 4035239.4/31

In: 186011.178+/-31.318

χ^2/NDF : 2564255.2/29

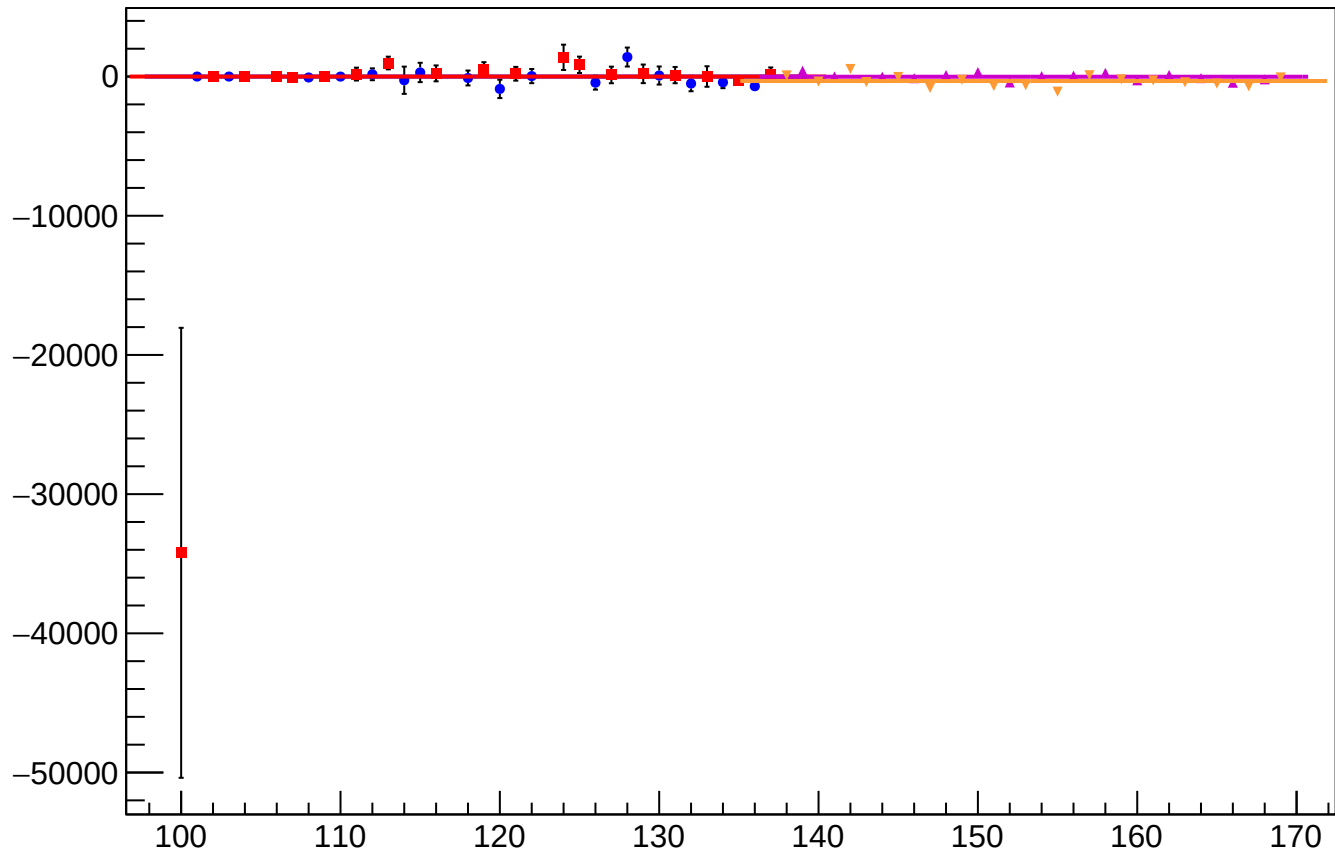
Out: 185165.207+/-30.406

χ^2/NDF : 2484033.1/33

All: 185575.697+/-21.816

χ^2/NDF : 5048663.

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.035 ± 0.172 χ^2/NDF : 18.1/15

Left Out: -320.548 ± 57.421 χ^2/NDF : 36.4/16

Right Out: 0.355 ± 0.160 χ^2/NDF : 16.5/18

Left In: -12.329 ± 60.596 χ^2/NDF : 14.1/14

Left: -174.724 ± 41.680 χ^2/NDF : 64.1/31

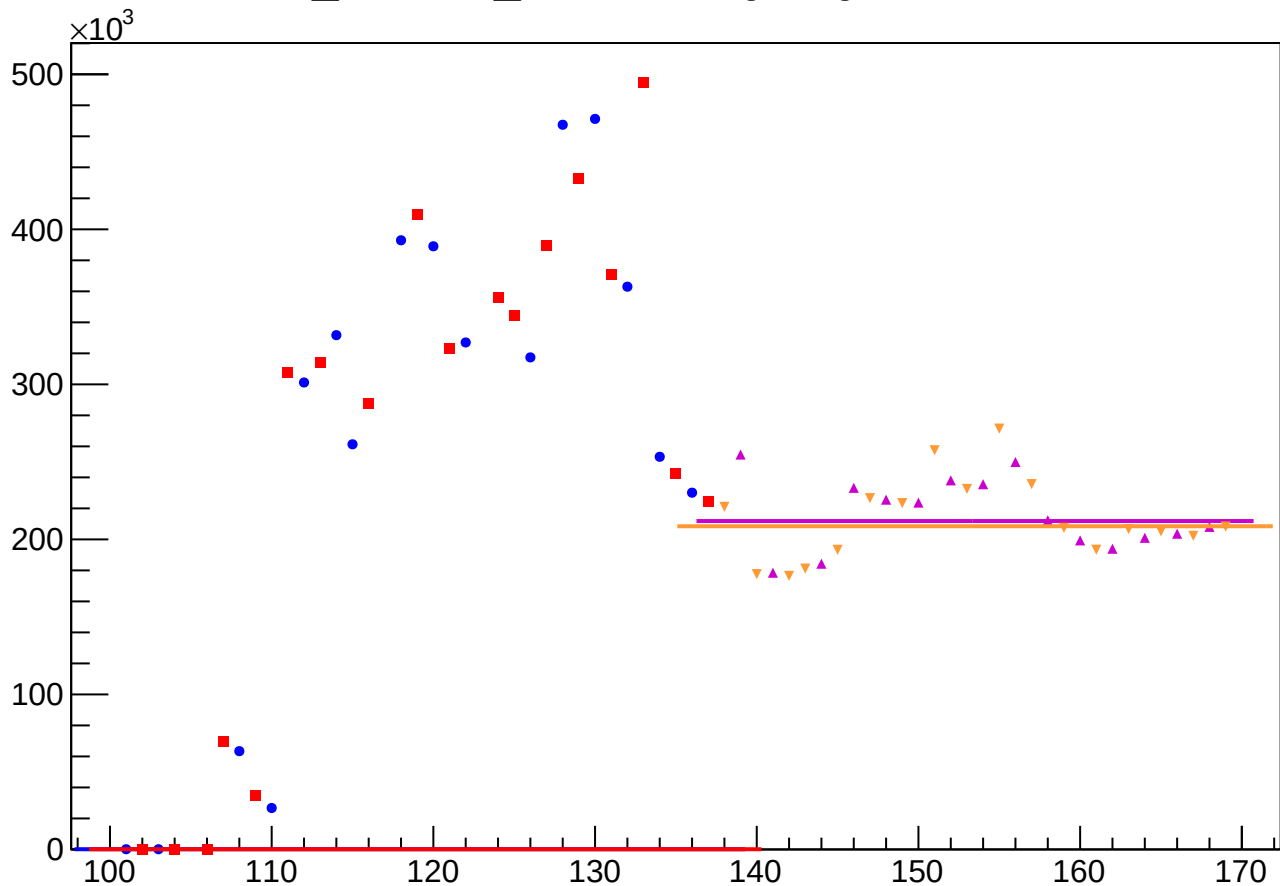
Right: 0.174 ± 0.117 χ^2/NDF : 37.4/34

In: -0.035 ± 0.172 χ^2/NDF : 32.3/30

Out: 0.353 ± 0.160 χ^2/NDF : 84.1/35

All: 0.173 ± 0.117 χ^2/NDF : 119.1/66

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 149.092 $\pm$ 0.122 χ^2/NDF : 11301940.9/15

Left Out: 208480.622 $\pm$ 40.603 χ^2/NDF : 349363.0/16

Right Out: 149.379 $\pm$ 0.113 χ^2/NDF : 11288711.4/17

Left In: 211846.429 $\pm$ 42.848 χ^2/NDF : 278089.9/14

Left: 210073.043 $\pm$ 29.472 χ^2/NDF : 630704.1/31

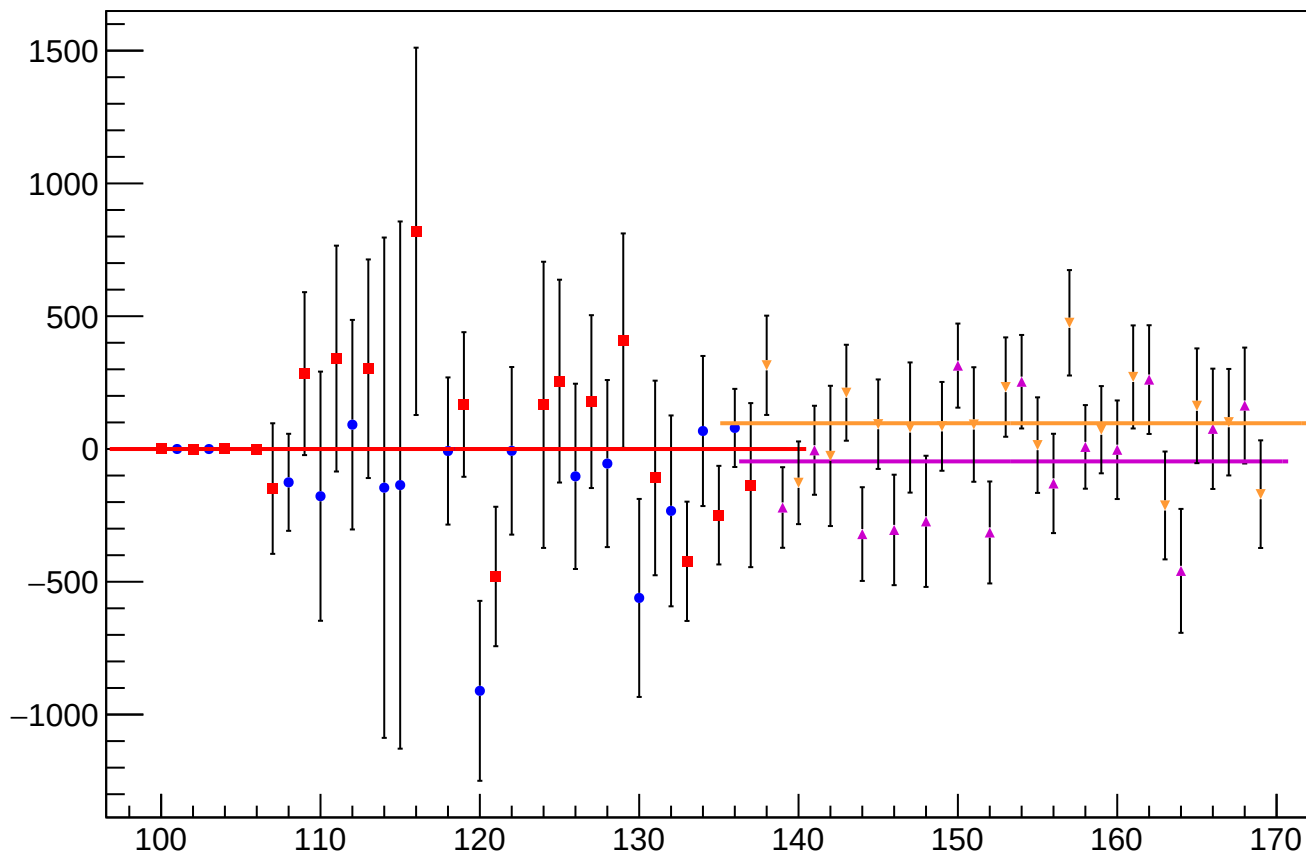
Right: 149.246 $\pm$ 0.083 χ^2/NDF : 22590655.3/33

In: 150.803 $\pm$ 0.122 χ^2/NDF : 35990250.8/30

Out: 150.999 $\pm$ 0.113 χ^2/NDF : 37964704.7/34

All: 150.908 $\pm$ 0.083 χ^2/NDF : 73954956.8/65

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: -0.068 $\pm$ 0.177 χ^2/NDF : 11.2/15

Left Out: 96.944 $\pm$ 46.260 χ^2/NDF :13.4/16

Right Out: -0.126 $\pm$ 0.166 χ^2/NDF : 15.2/18

Left In: -46.747 $\pm$ 48.192 χ^2/NDF :23.2/14

Left: 28.037 $\pm$ 33.373 χ^2/NDF : 41.2/31

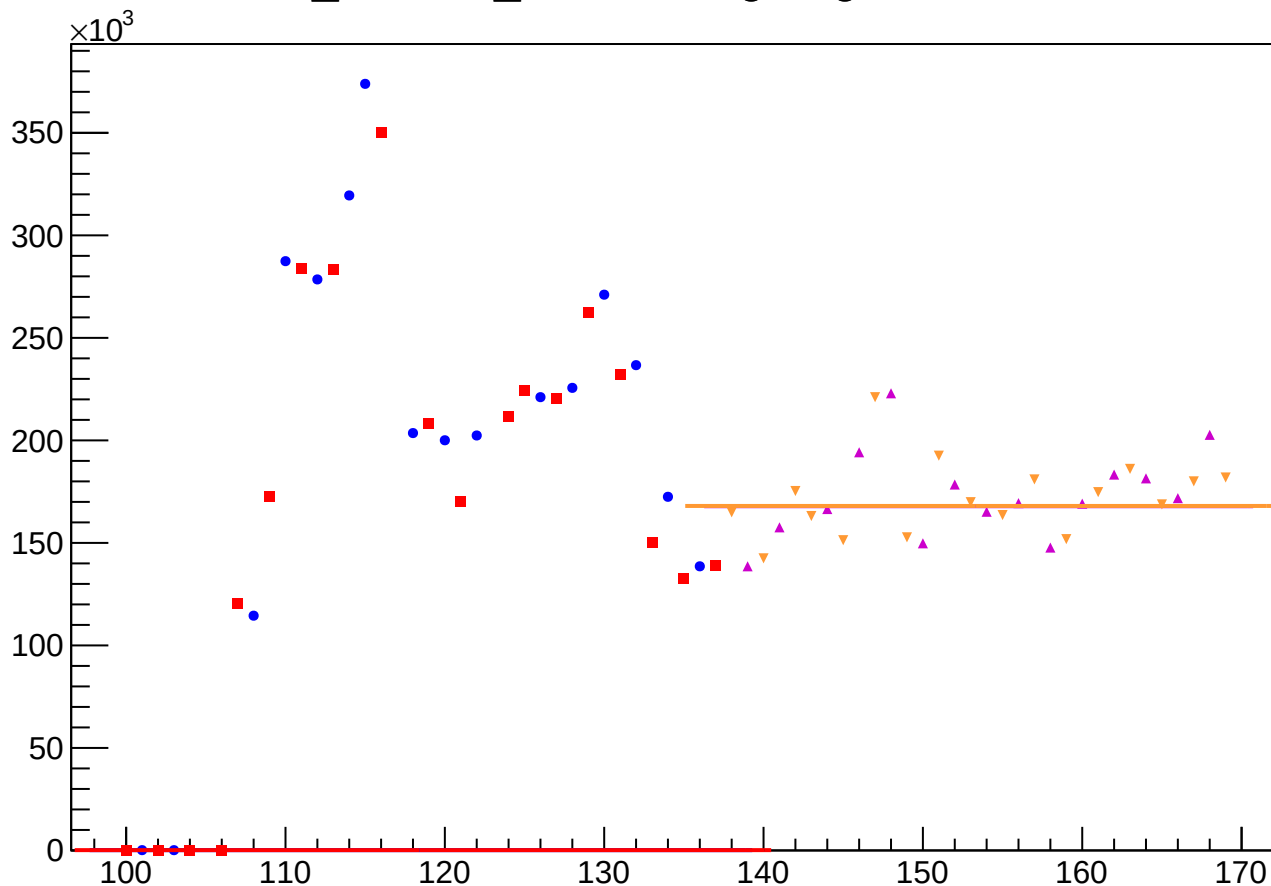
Right: -0.099 $\pm$ 0.121 χ^2/NDF : 26.5/34

In: -0.069 $\pm$ 0.177 χ^2/NDF :35.3/30

Out: -0.125 $\pm$ 0.166 χ^2/NDF :33.1/35

All: -0.098 $\pm$ 0.121 χ^2/NDF : 68.4/66

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 153.460 $\pm$ 0.125 χ^2 /NDF: 11904914.7/15

Left Out: 168021.153 $\pm$ 32.711 χ^2 /NDF:277497.5/16

Right Out: 156.158 $\pm$ 0.118 χ^2 /NDF: 11330885.6/18

Left In: 167890.339 $\pm$ 34.077 χ^2 /NDF:349000.5/14

Left: 167958.421 $\pm$ 23.598 χ^2 /NDF: 626505.7/31

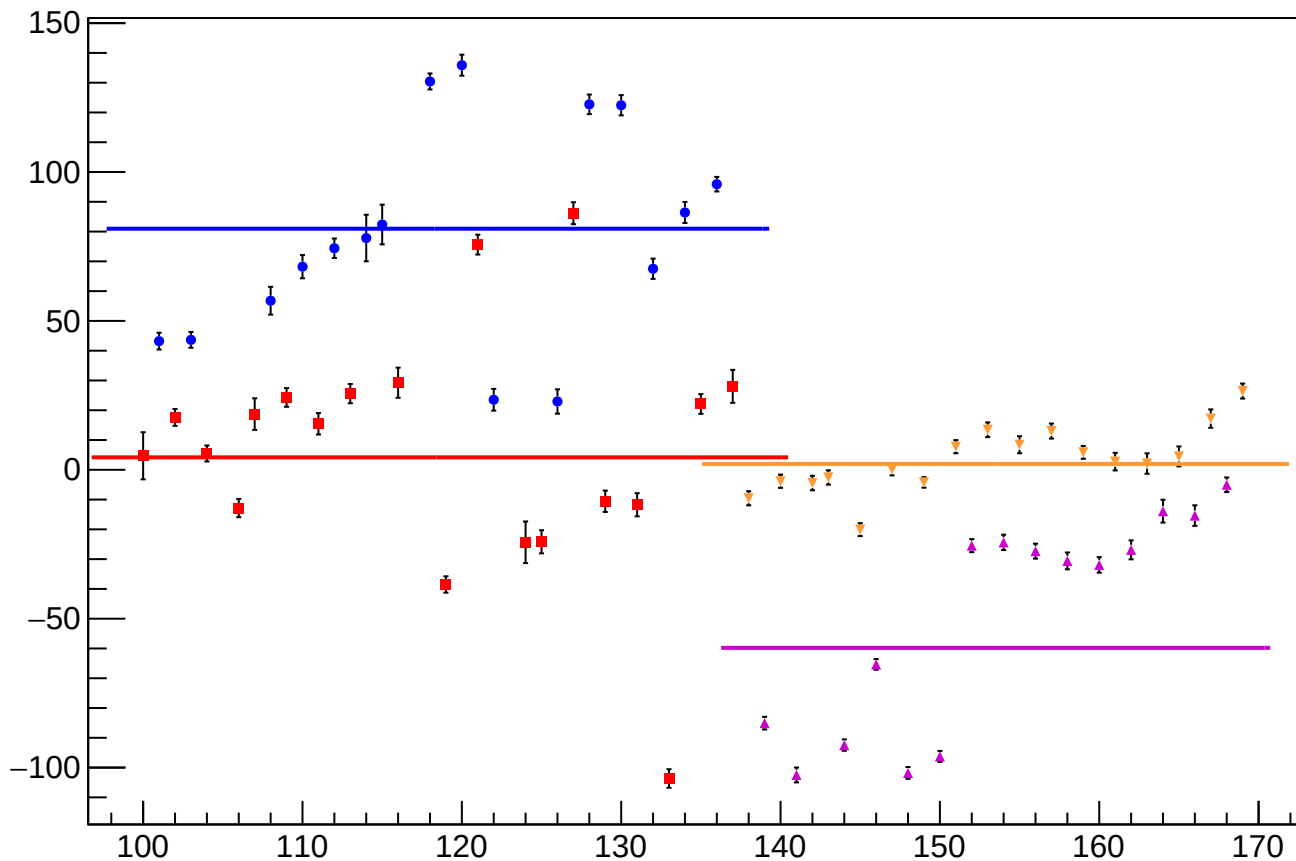
Right: 154.893 $\pm$ 0.086 χ^2 /NDF: 23236046.4/34

In: 155.729 $\pm$ 0.125 χ^2 /NDF:36482212.1/30

Out: 158.332 $\pm$ 0.118 χ^2 /NDF:37943585.4/35

All: 157.112 $\pm$ 0.086 χ^2 /NDF: 74426026.7/60

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 80.955 ± 0.851 $\chi^2/\text{NDF}: 1813.9/15$

Left Out: 1.975 ± 0.587 $\chi^2/\text{NDF}: 331.8/16$

Right Out: 4.183 ± 0.820 $\chi^2/\text{NDF}: 2719.7/18$

Left In: -59.791 ± 0.606 $\chi^2/\text{NDF}: 3310.1/14$

Left: -27.919 ± 0.422 $\chi^2/\text{NDF}: 8997.2/31$

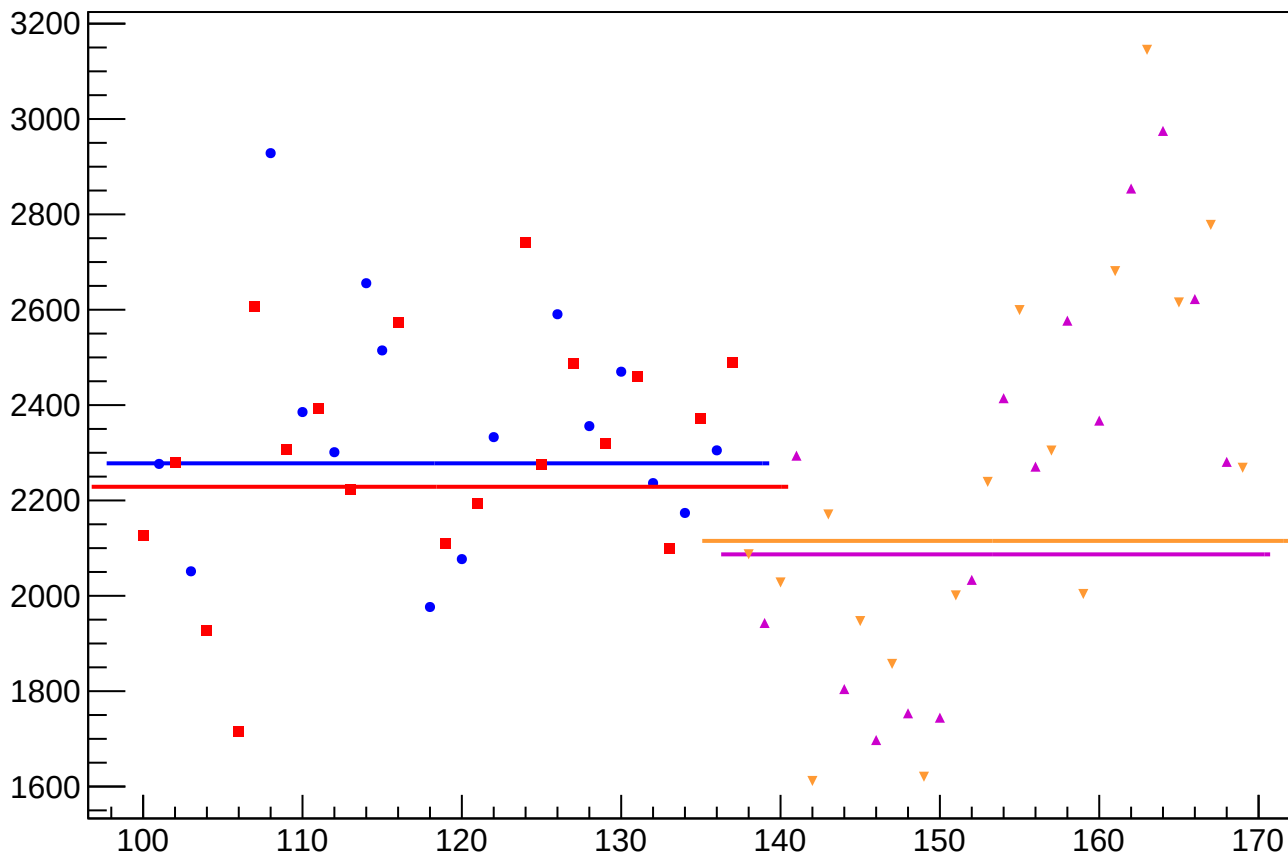
Right: 41.130 ± 0.591 $\chi^2/\text{NDF}: 8751.0/34$

In: -12.436 ± 0.494 $\chi^2/\text{NDF}: 23255.0/30$

Out: 2.724 ± 0.477 $\chi^2/\text{NDF}: 3056.3/35$

All: -4.600 ± 0.343 $\chi^2/\text{NDF}: 26798.3/66$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 2277.867 ± 0.602 $\chi^2/\text{NDF}: 115771.4/15$

Left Out: 2115.186 ± 0.415 $\chi^2/\text{NDF}: 769908.2/16$

Right Out: 2228.689 ± 0.580 $\chi^2/\text{NDF}: 151135.6/18$

Left In: 2086.925 ± 0.429 $\chi^2/\text{NDF}: 698323.0/14$

Left: 2101.508 ± 0.298 $\chi^2/\text{NDF}: 1470473.5/31$

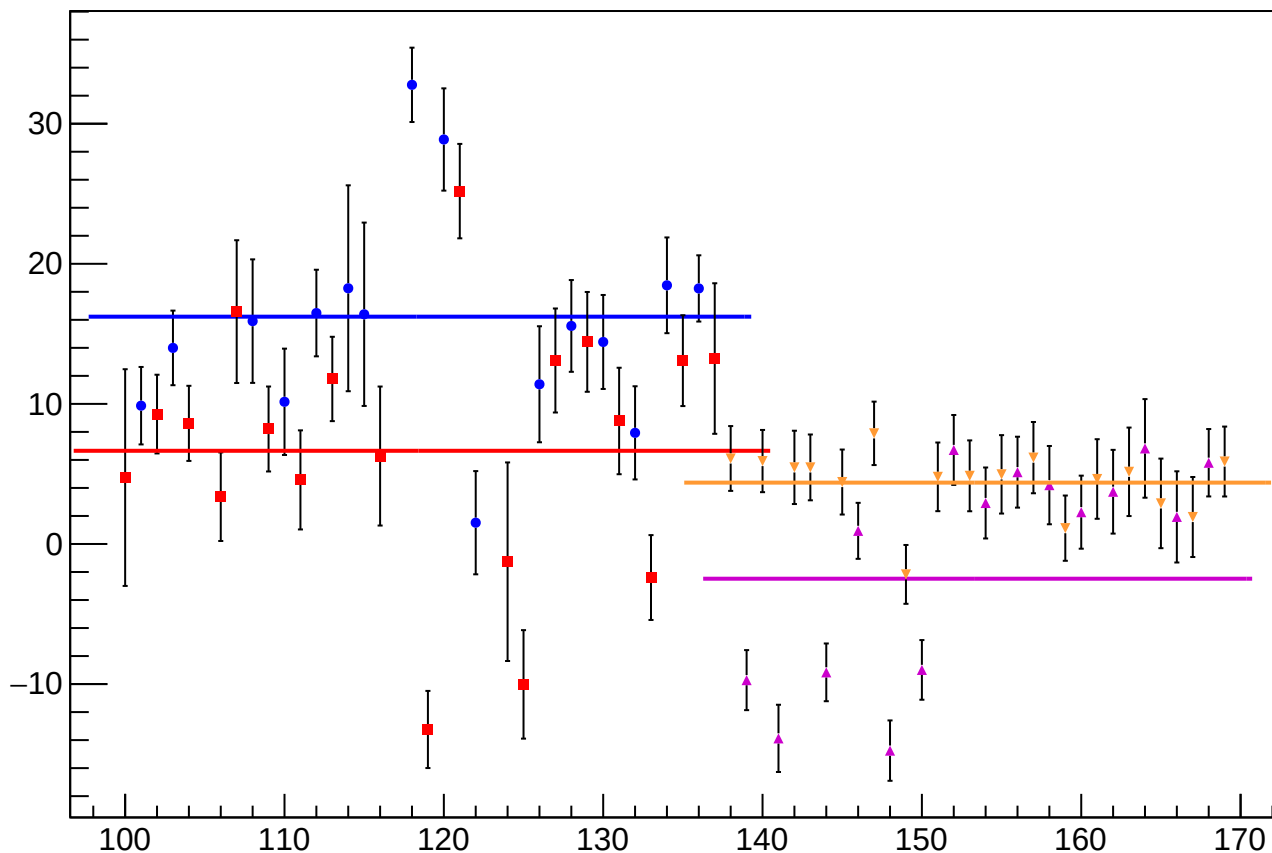
Right: 2252.356 ± 0.418 $\chi^2/\text{NDF}: 270367.9/34$

In: 2151.168 ± 0.349 $\chi^2/\text{NDF}: 880834.0/30$

Out: 2153.653 ± 0.338 $\chi^2/\text{NDF}: 946369.8/35$

All: 2152.453 ± 0.243 $\chi^2/\text{NDF}: 1827230.0/66$

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 16.226 ± 0.838 $\chi^2/\text{NDF}: 84.5/15$

Left Out: 4.380 ± 0.606 $\chi^2/\text{NDF}: 17.5/16$

Right Out: 6.652 ± 0.809 $\chi^2/\text{NDF}: 134.6/18$

Left In: -2.479 ± 0.630 $\chi^2/\text{NDF}: 150.4/14$

Left: 1.080 ± 0.437 $\chi^2/\text{NDF}: 229.4/31$

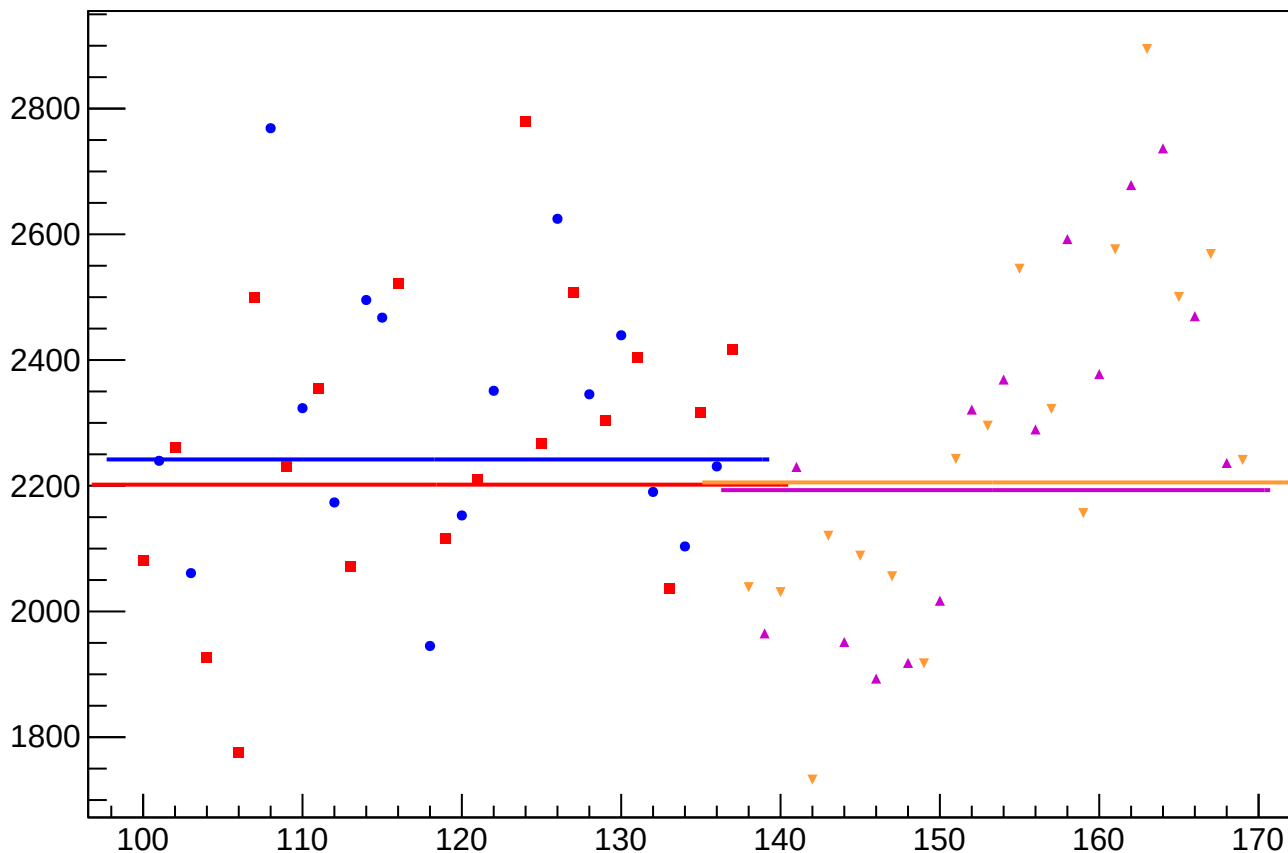
Right: 11.274 ± 0.582 $\chi^2/\text{NDF}: 286.7/34$

In: 4.278 ± 0.503 $\chi^2/\text{NDF}: 553.4/30$

Out: 5.197 ± 0.485 $\chi^2/\text{NDF}: 157.1/35$

All: 4.754 ± 0.349 $\chi^2/\text{NDF}: 712.3/66$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 2241.853 ± 0.592 $\chi^2/\text{NDF}: 102260.7/15$

Left Out: 2205.261 ± 0.429 $\chi^2/\text{NDF}: 358733.1/16$

Right Out: 2201.739 ± 0.572 $\chi^2/\text{NDF}: 129882.5/18$

Left In: 2193.036 ± 0.445 $\chi^2/\text{NDF}: 326077.6/14$

Left: 2199.380 ± 0.309 $\chi^2/\text{NDF}: 685201.7/31$

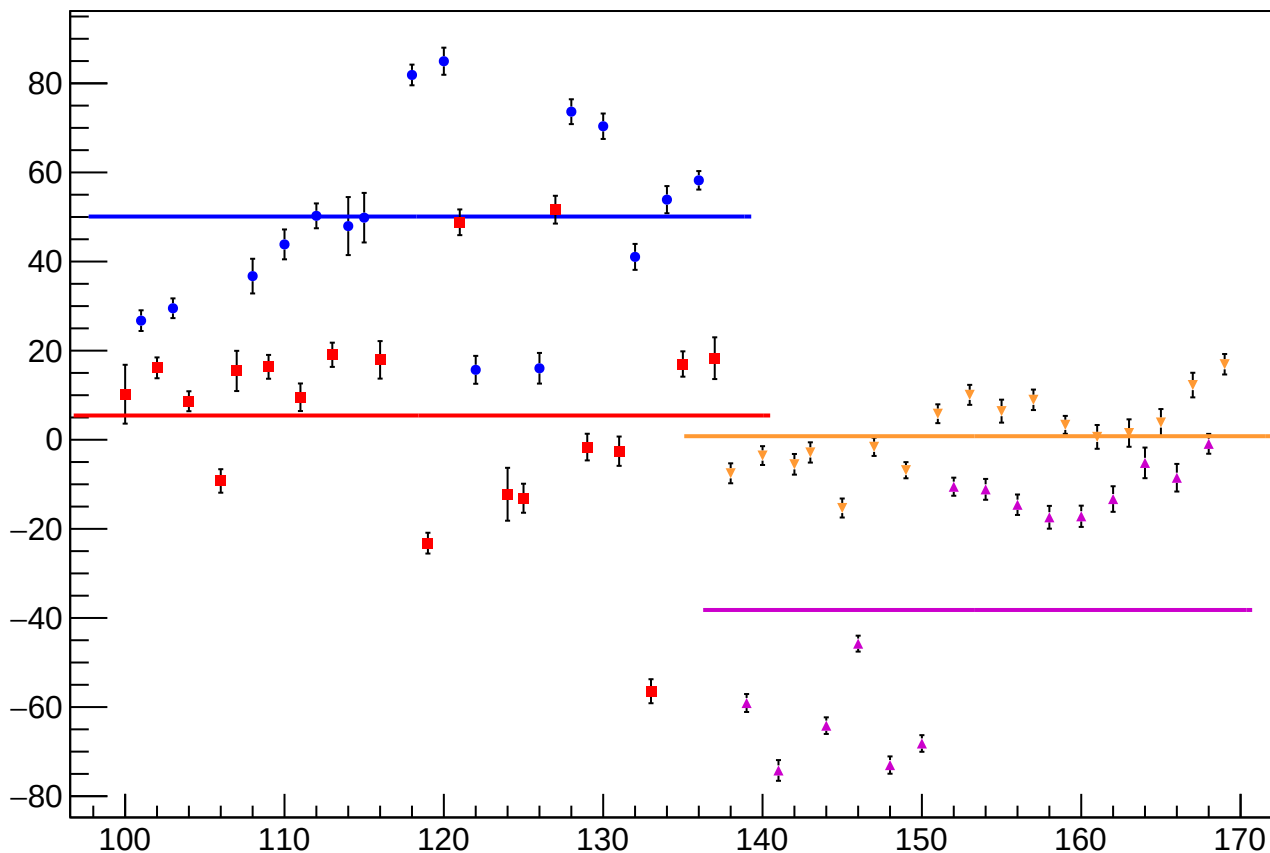
Right: 2221.106 ± 0.412 $\chi^2/\text{NDF}: 234515.6/34$

In: 2210.670 ± 0.356 $\chi^2/\text{NDF}: 432677.8/30$

Out: 2203.995 ± 0.343 $\chi^2/\text{NDF}: 488639.9/35$

All: 2207.210 ± 0.247 $\chi^2/\text{NDF}: 921500.0/66$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 50.102 $\pm$ 0.722 χ^2 /NDF: 888.5/15

Left Out: 0.797 $\pm$ 0.555 χ^2 /NDF:213.8/16

Right Out: 5.444 $\pm$ 0.694 χ^2 /NDF: 1311.6/18

Left In: -38.206 $\pm$ 0.574 χ^2 /NDF:2246.2/14

Left: -18.045 $\pm$ 0.399 χ^2 /NDF: 4849.1/31

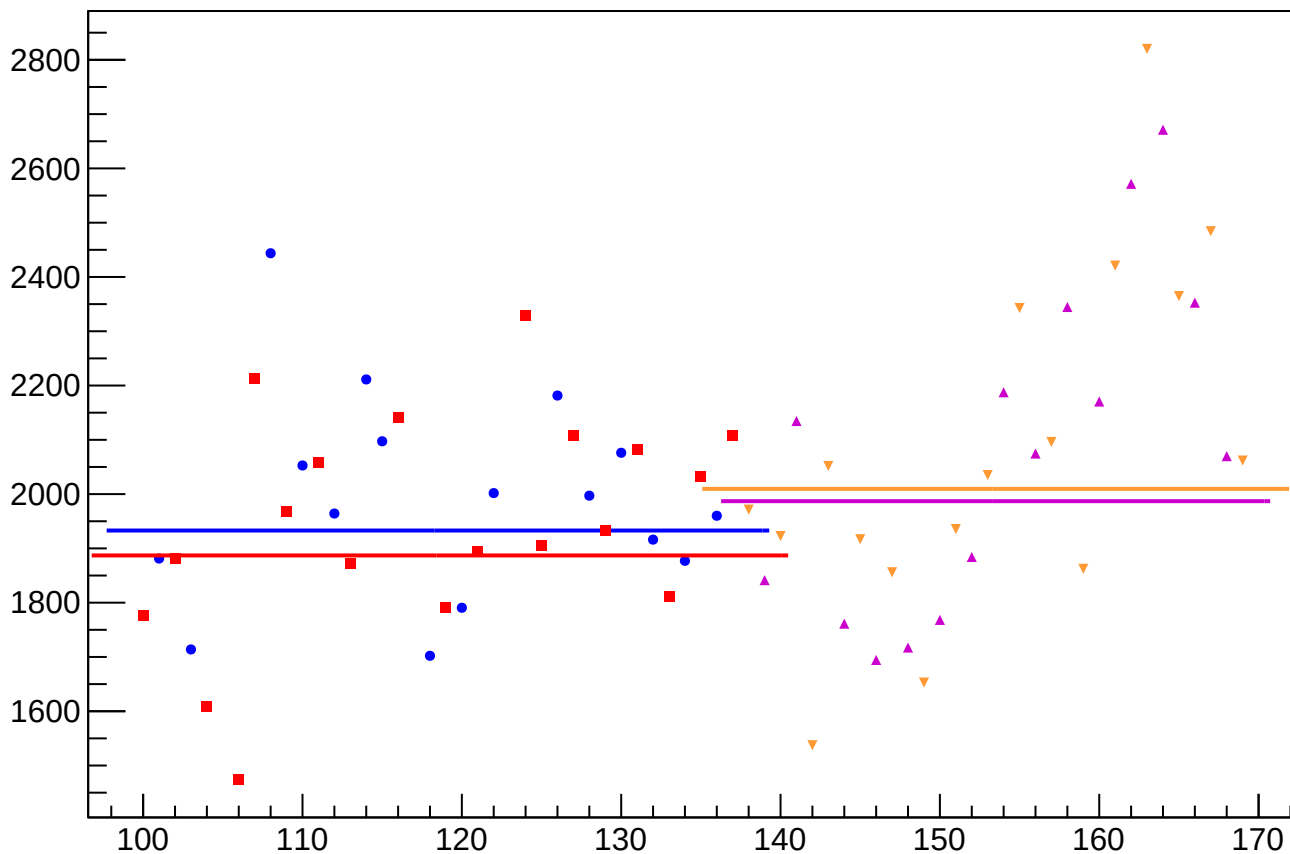
Right: 26.895 $\pm$ 0.500 χ^2 /NDF: 4187.6/34

In: -4.035 $\pm$ 0.449 χ^2 /NDF:12302.7/30

Out: 2.607 $\pm$ 0.433 χ^2 /NDF:1552.7/35

All: -0.595 $\pm$ 0.312 χ^2 /NDF: 13968.7/66

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1932.904 $\pm$ 0.511 χ^2 /NDF: 105967.6/15

Left Out: 2009.694 $\pm$ 0.392 χ^2 /NDF: 503396.9/16

Right Out: 1887.006 $\pm$ 0.491 χ^2 /NDF: 149746.6/18

Left In: 1986.983 $\pm$ 0.406 χ^2 /NDF: 433691.9/14

Left: 1998.723 $\pm$ 0.282 χ^2 /NDF: 938708.9/31

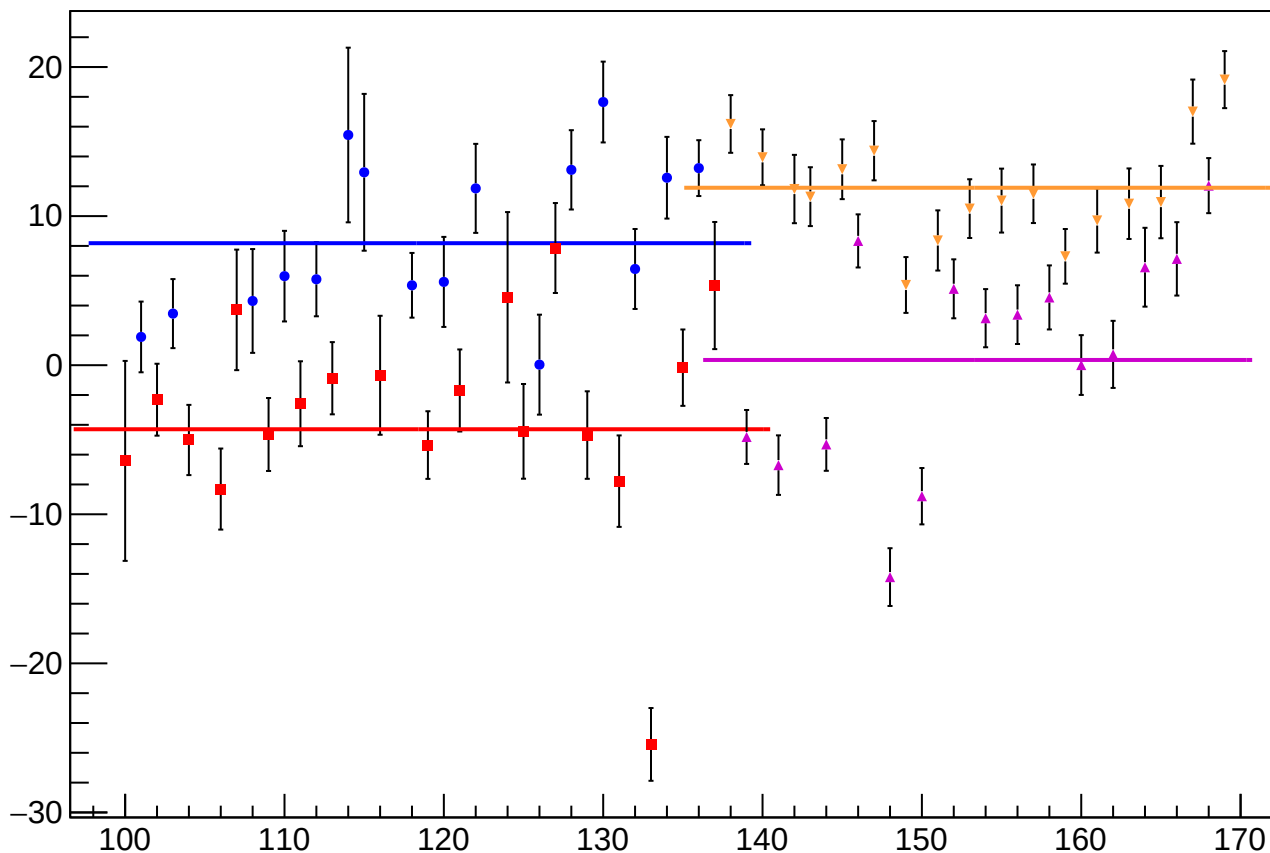
Right: 1909.052 $\pm$ 0.354 χ^2 /NDF: 259912.9/34

In: 1966.057 $\pm$ 0.318 χ^2 /NDF: 546535.8/30

Out: 1961.900 $\pm$ 0.306 χ^2 /NDF: 691269.8/35

All: 1963.904 $\pm$ 0.221 χ^2 /NDF: 1237894.4/66

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.183 ± 0.684 $\chi^2/\text{NDF}: 52.0/15$

Left Out: 11.902 ± 0.493 $\chi^2/\text{NDF}: 51.7/16$

Right Out: -4.297 ± 0.665 $\chi^2/\text{NDF}: 114.0/18$

Left In: 0.351 ± 0.515 $\chi^2/\text{NDF}: 198.1/14$

Left: 6.375 ± 0.356 $\chi^2/\text{NDF}: 512.6/31$

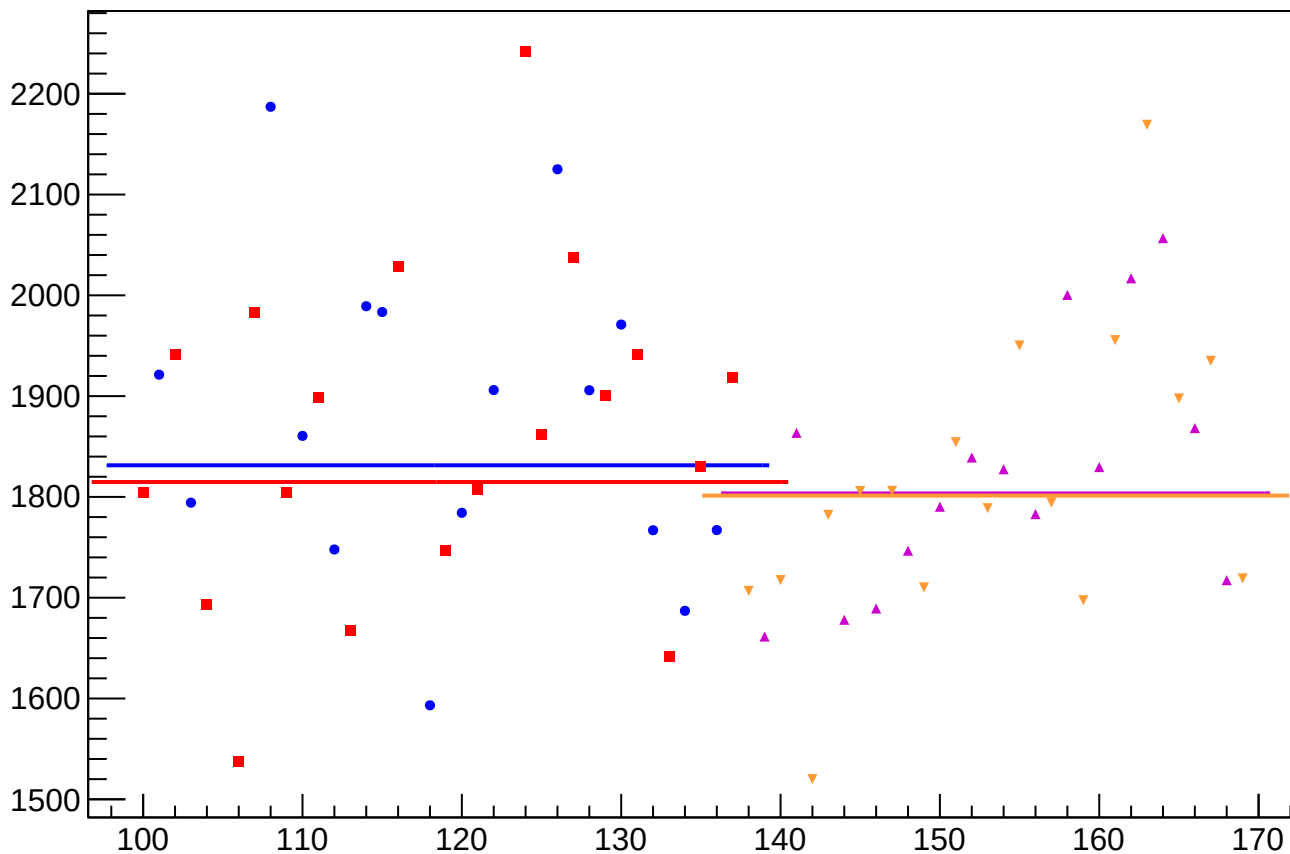
Right: 1.776 ± 0.477 $\chi^2/\text{NDF}: 337.0/34$

In: 3.184 ± 0.411 $\chi^2/\text{NDF}: 333.9/30$

Out: 6.163 ± 0.396 $\chi^2/\text{NDF}: 548.3/35$

All: 4.729 ± 0.285 $\chi^2/\text{NDF}: 909.4/66$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1831.359+/-0.483 χ^2/NDF : 86919.2/15

Left Out: 1801.310+/-0.349 χ^2/NDF :134555.6/16

Right Out: 1814.774+/-0.471 χ^2/NDF : 90738.7/18

Left In: 1803.494+/-0.364 χ^2/NDF :94551.4/14

Left: 1802.355+/-0.252 χ^2/NDF : 229125.8/31

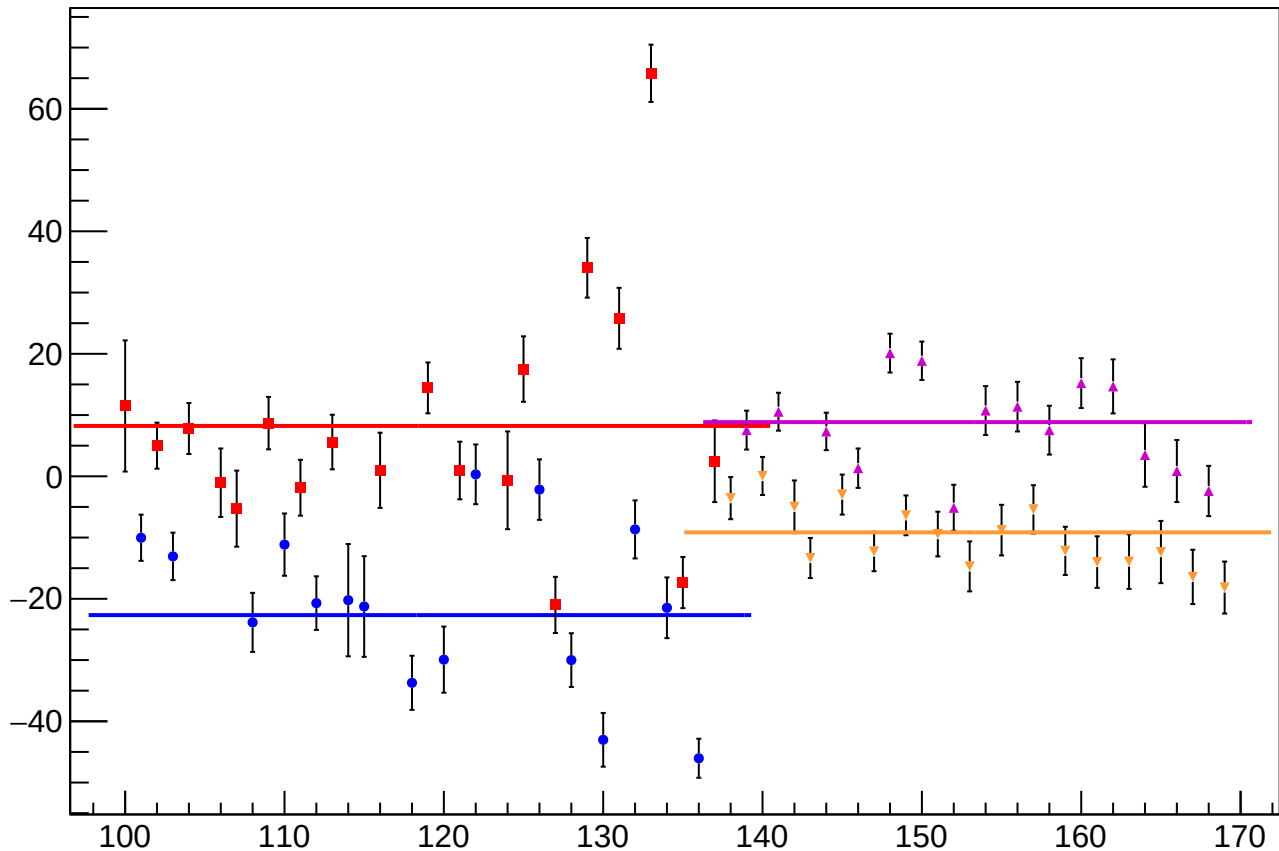
Right: 1822.844+/-0.337 χ^2/NDF : 178262.4/34

In: 1813.574+/-0.291 χ^2/NDF :183591.9/30

Out: 1806.080+/-0.280 χ^2/NDF :225822.9/35

All: 1809.688+/-0.202 χ^2/NDF : 409759.4/66

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -22.663 ± 1.152 χ^2/NDF : 157.2/15

Left Out: -9.147 ± 0.915 χ^2/NDF : 32.7/16

Right Out: 8.224 ± 1.129 χ^2/NDF : 294.8/18

Left In: 8.849 ± 0.948 χ^2/NDF : 58.8/14

Left: -0.468 ± 0.658 χ^2/NDF : 278.1/31

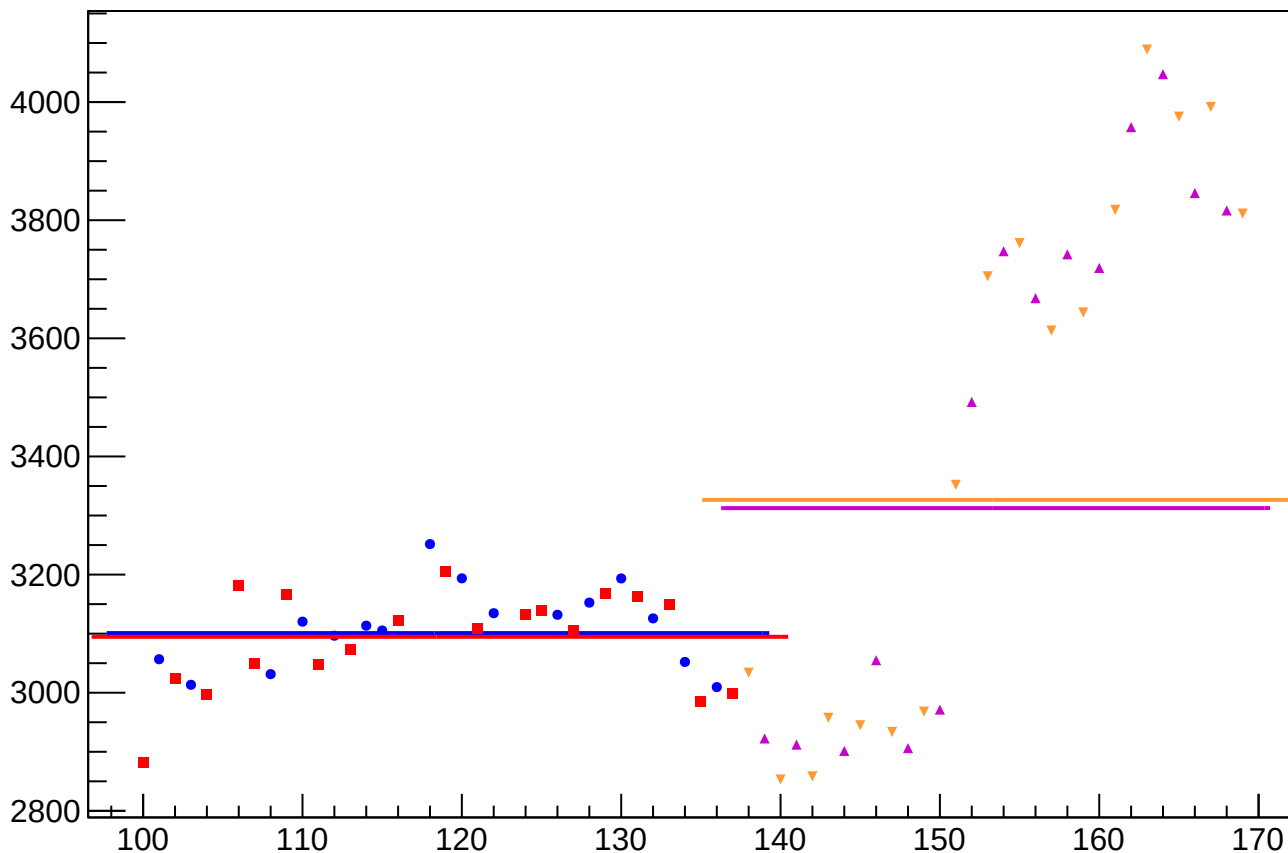
Right: -6.906 ± 0.806 χ^2/NDF : 818.8/34

In: -3.874 ± 0.732 χ^2/NDF : 662.2/30

Out: -2.260 ± 0.711 χ^2/NDF : 470.4/35

All: -3.043 ± 0.510 χ^2/NDF : 1135.1/66

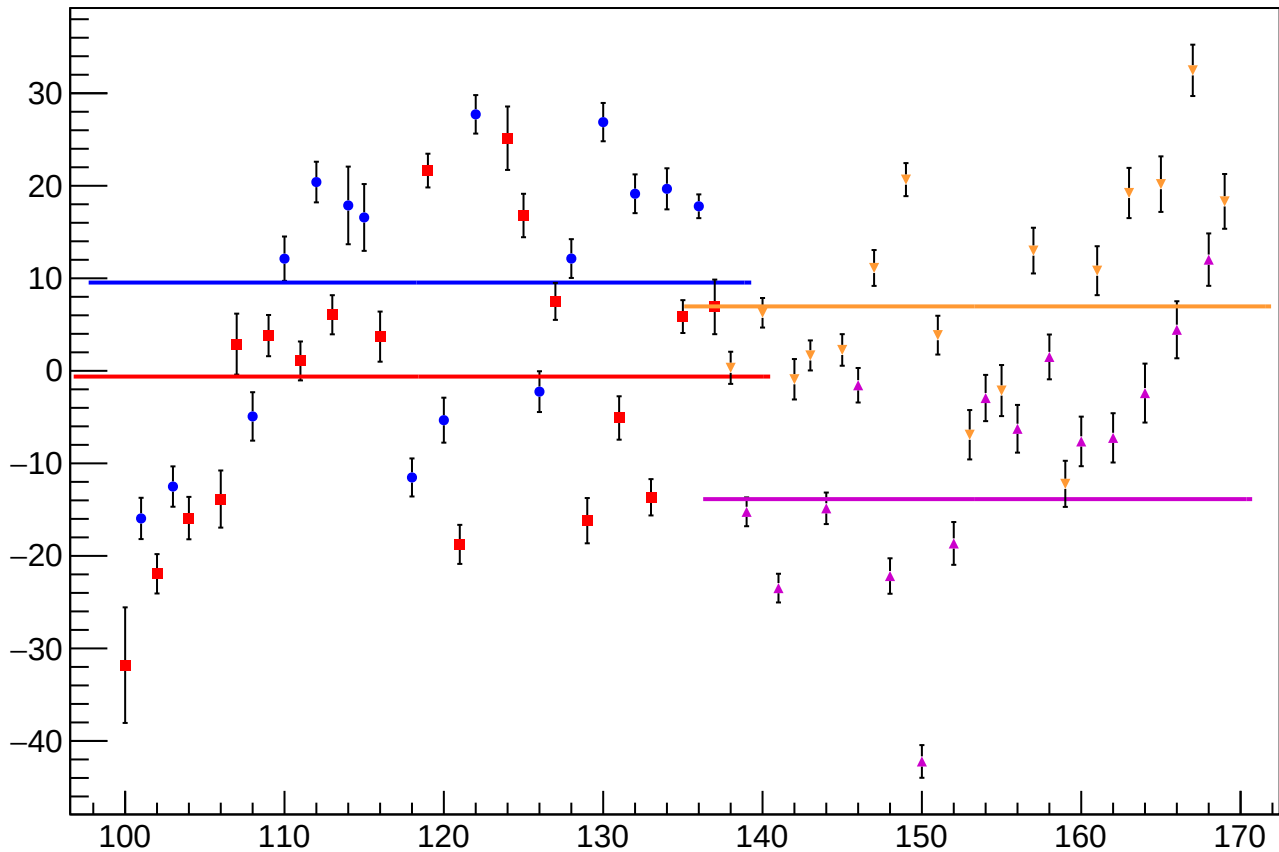
diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3100.940+/-0.815 χ^2/NDF : 7893.7/15
 Left Out: 3326.518+/-0.647 χ^2/NDF : 443883.1/16
 Right Out: 3094.688+/-0.798 χ^2/NDF : 8584.4/18
 Left In: 3312.557+/-0.670 χ^2/NDF : 391094.2/14

Left: 3319.785+/-0.465 χ^2/NDF : 835201.9/31
 Right: 3097.751+/-0.570 χ^2/NDF : 16508.2/34
 In: 3227.115+/-0.518 χ^2/NDF : 439231.6/30
 Out: 3234.607+/-0.503 χ^2/NDF : 503381.7/35
 All: 3230.971+/-0.361 χ^2/NDF : 942721.1/66

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 9.540 ± 0.541 $\chi^2/\text{NDF}: 698.7/15$

Left Out: 6.963 ± 0.520 $\chi^2/\text{NDF}: 355.9/16$

Right Out: -0.620 ± 0.534 $\chi^2/\text{NDF}: 665.8/18$

Left In: -13.865 ± 0.548 $\chi^2/\text{NDF}: 574.9/14$

Left: -2.911 ± 0.377 $\chi^2/\text{NDF}: 1690.3/31$

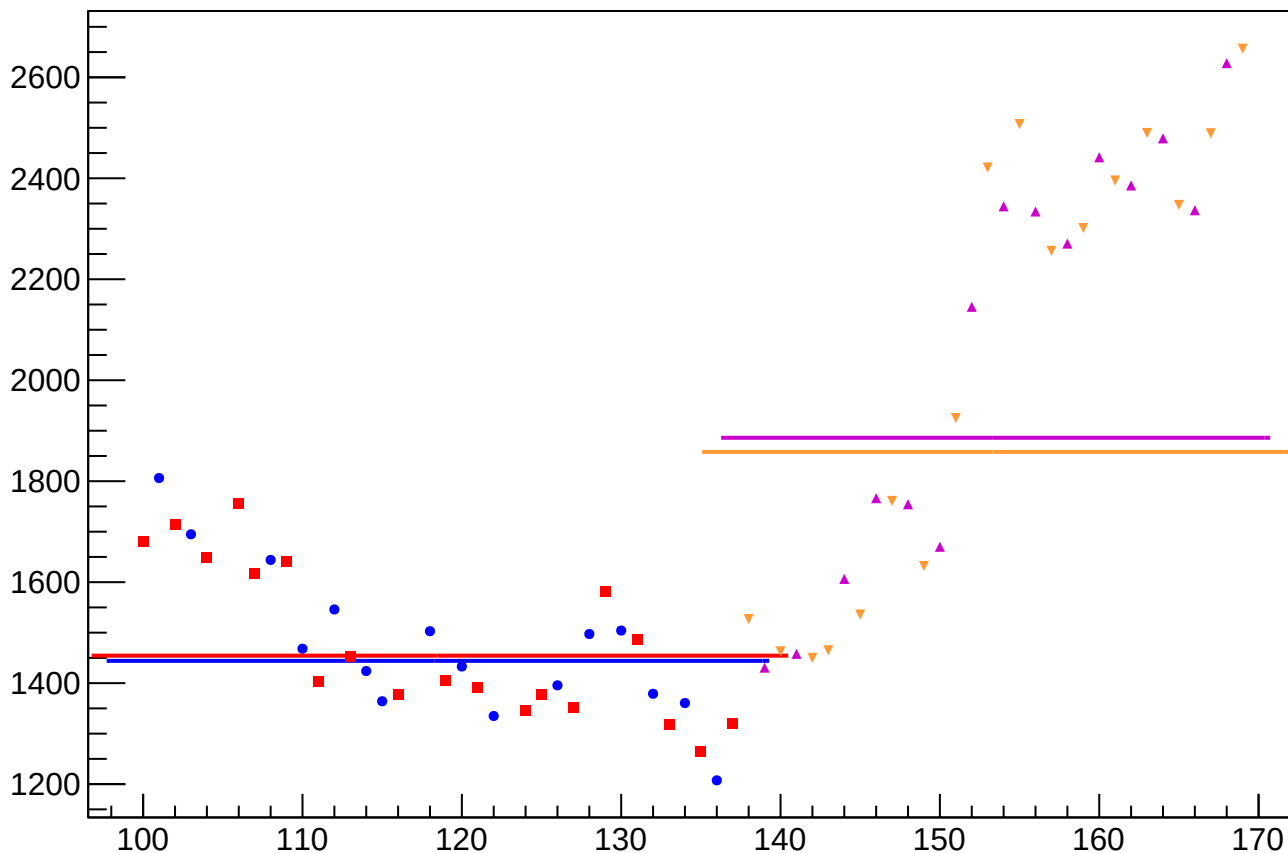
Right: 4.392 ± 0.380 $\chi^2/\text{NDF}: 1543.1/34$

In: -2.017 ± 0.385 $\chi^2/\text{NDF}: 2196.8/30$

Out: 3.271 ± 0.373 $\chi^2/\text{NDF}: 1125.1/35$

All: 0.713 ± 0.268 $\chi^2/\text{NDF}: 3419.2/66$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1444.188+/-0.383 χ^2/NDF : 180147.9/15

Left Out: 1858.030+/-0.368 χ^2/NDF : 1300499.8/16

Right Out: 1454.470+/-0.378 χ^2/NDF : 142772.9/18

Left In: 1886.030+/-0.388 χ^2/NDF : 1033912.8/14

Left: 1871.305+/-0.267 χ^2/NDF : 2337157.8/31

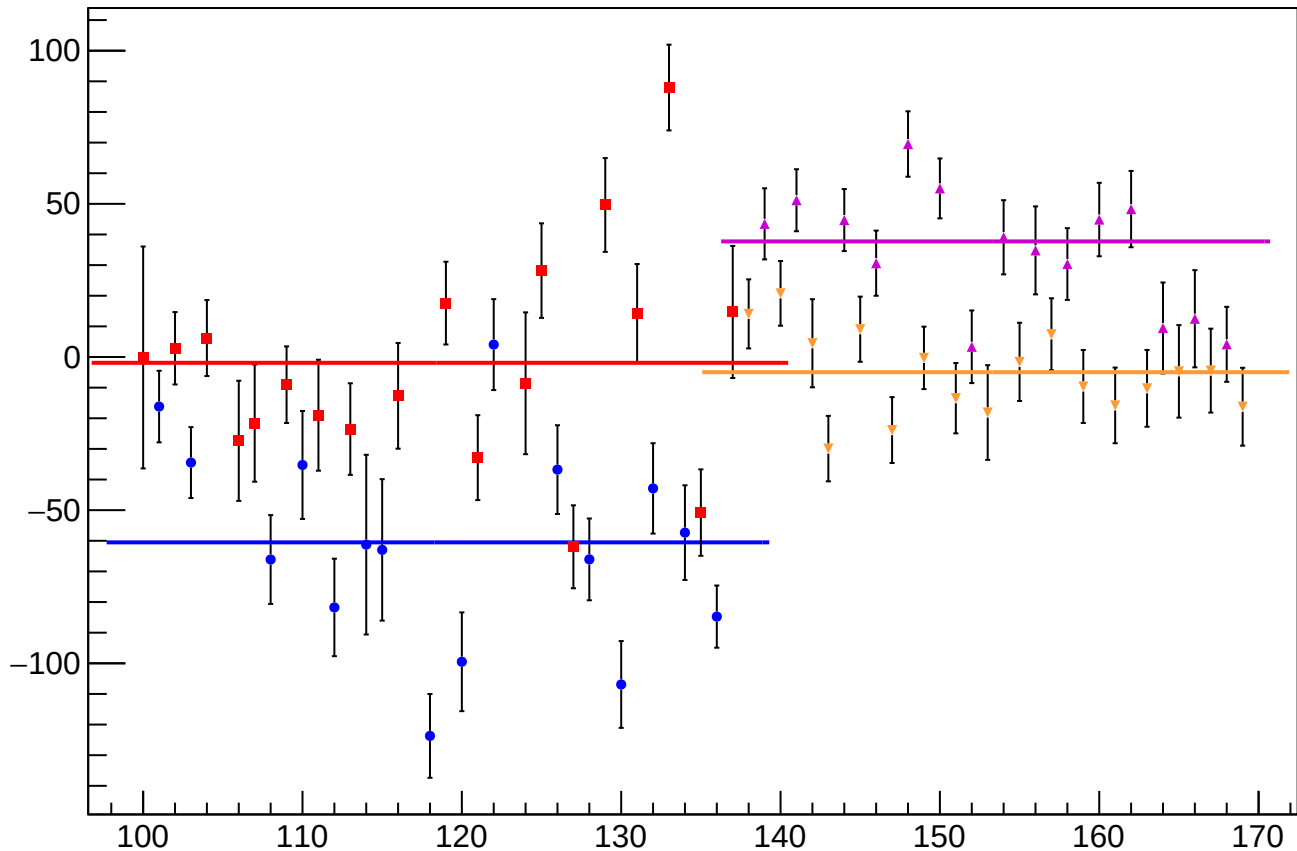
Right: 1449.398+/-0.269 χ^2/NDF : 323286.5/34

In: 1662.367+/-0.272 χ^2/NDF : 1872069.6/30

Out: 1661.504+/-0.264 χ^2/NDF : 2029032.6/35

All: 1661.921+/-0.189 χ^2/NDF : 3901107.4/66

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -60.516 ± 3.596 $\chi^2/\text{NDF}: 90.3/15$

Left Out: -4.953 ± 2.904 $\chi^2/\text{NDF}: 24.0/16$

Right Out: -1.894 ± 3.543 $\chi^2/\text{NDF}: 103.8/18$

Left In: 37.736 ± 3.020 $\chi^2/\text{NDF}: 38.6/14$

Left: 15.558 ± 2.093 $\chi^2/\text{NDF}: 166.4/31$

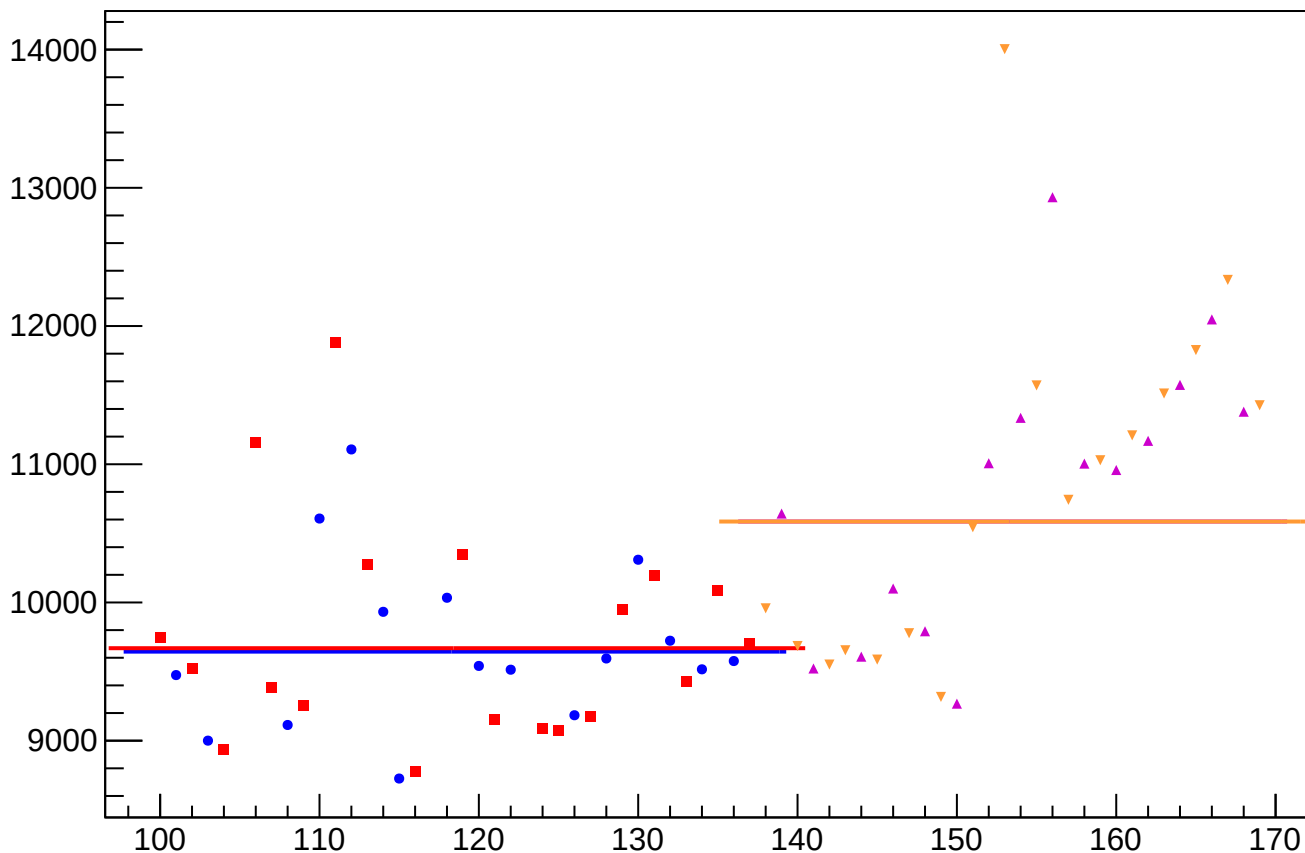
Right: -30.766 ± 2.524 $\chi^2/\text{NDF}: 329.0/34$

In: -2.897 ± 2.313 $\chi^2/\text{NDF}: 566.6/30$

Out: -3.724 ± 2.246 $\chi^2/\text{NDF}: 128.3/35$

All: -3.323 ± 1.611 $\chi^2/\text{NDF}: 695.0/66$

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9644.396 ± 2.543 $\chi^2/\text{NDF}: 44101.6/15$

Left Out: 10585.579 ± 2.054 $\chi^2/\text{NDF}: 289738.3/16$

Right Out: 9669.136 ± 2.505 $\chi^2/\text{NDF}: 79878.1/18$

Left In: 10585.654 ± 2.135 $\chi^2/\text{NDF}: 199026.4/14$

Left: 10585.615 ± 1.480 $\chi^2/\text{NDF}: 488764.7/31$

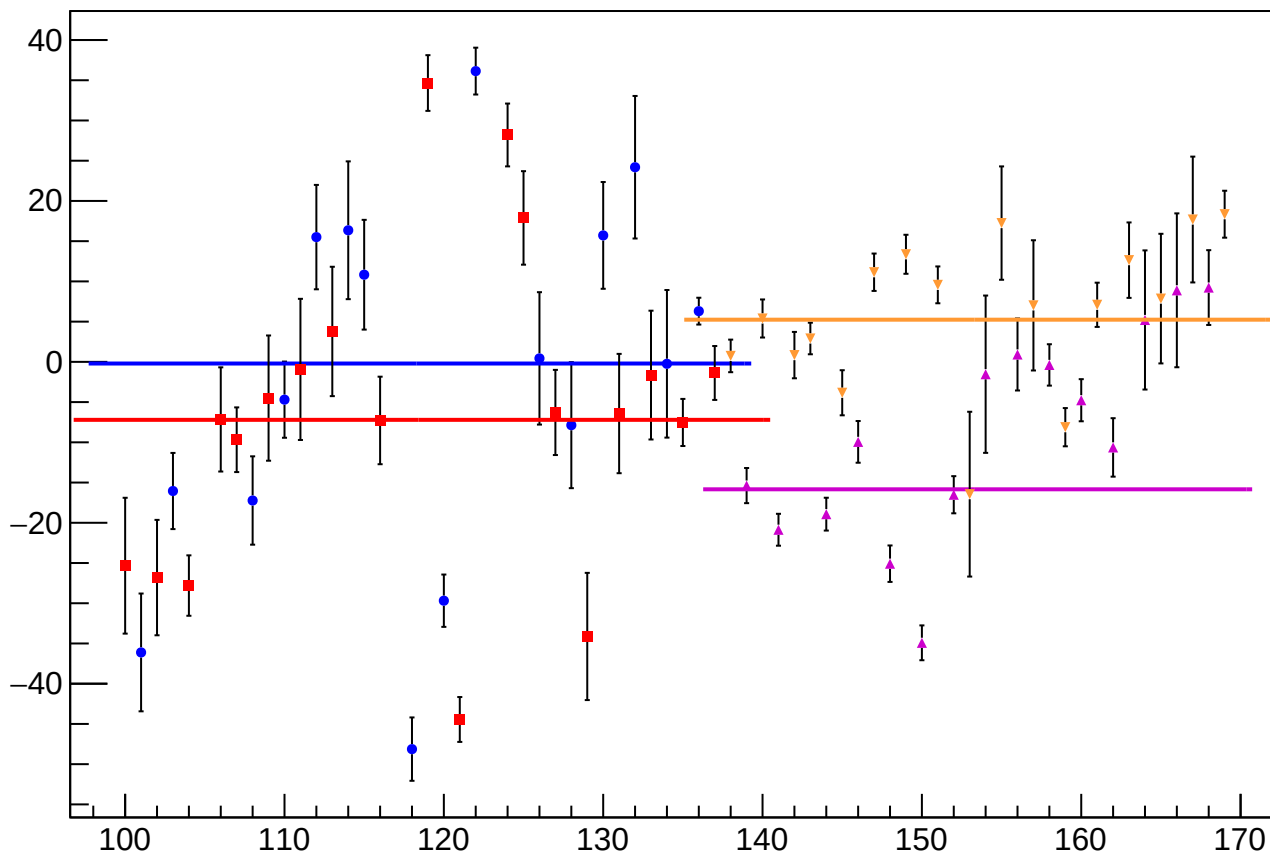
Right: 9656.951 ± 1.785 $\chi^2/\text{NDF}: 124027.7/34$

In: 10196.386 ± 1.635 $\chi^2/\text{NDF}: 323475.0/30$

Out: 10217.231 ± 1.588 $\chi^2/\text{NDF}: 449653.3/35$

All: 10207.113 ± 1.139 $\chi^2/\text{NDF}: 773211.9/66$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: -0.206 ± 1.045 $\chi^2/\text{NDF}: 473.7/15$

Left Out: 5.242 ± 0.703 $\chi^2/\text{NDF}: 105.3/16$

Right Out: -7.206 ± 1.074 $\chi^2/\text{NDF}: 485.6/18$

Left In: -15.839 ± 0.716 $\chi^2/\text{NDF}: 222.3/14$

Left: -5.107 ± 0.501 $\chi^2/\text{NDF}: 769.6/31$

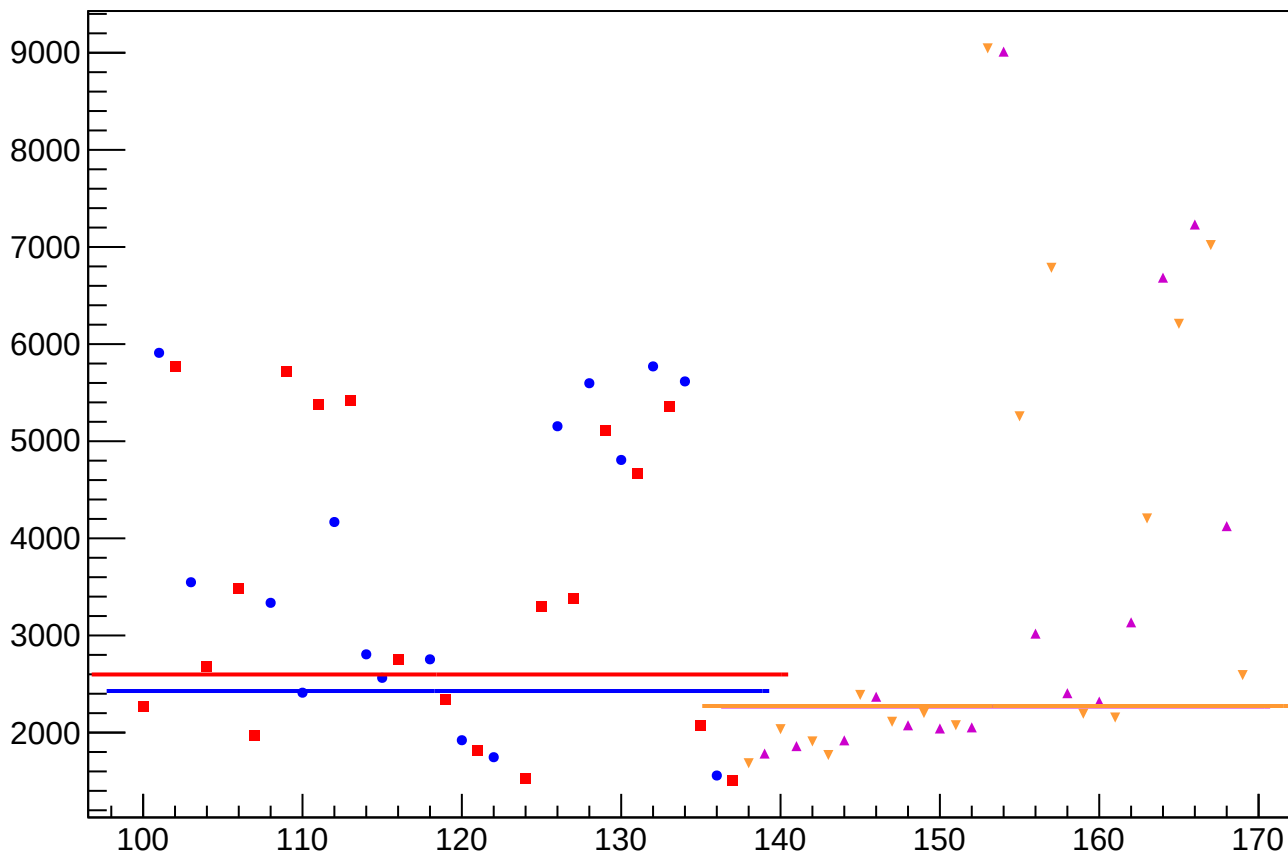
Right: -3.613 ± 0.749 $\chi^2/\text{NDF}: 981.2/34$

In: -10.852 ± 0.590 $\chi^2/\text{NDF}: 848.3/30$

Out: 1.509 ± 0.588 $\chi^2/\text{NDF}: 685.1/35$

All: -4.644 ± 0.417 $\chi^2/\text{NDF}: 1753.5/66$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2428.080 $\pm$ 0.739 χ^2/NDF : 2815335.2/15

Left Out: 2273.680 $\pm$ 0.497 χ^2/NDF : 3822465.2/16

Right Out: 2598.321 $\pm$ 0.759 χ^2/NDF : 2514932.7/18

Left In: 2269.025 $\pm$ 0.506 χ^2/NDF : 2805726.0/14

Left: 2271.395 $\pm$ 0.354 χ^2/NDF : 6628234.4/31

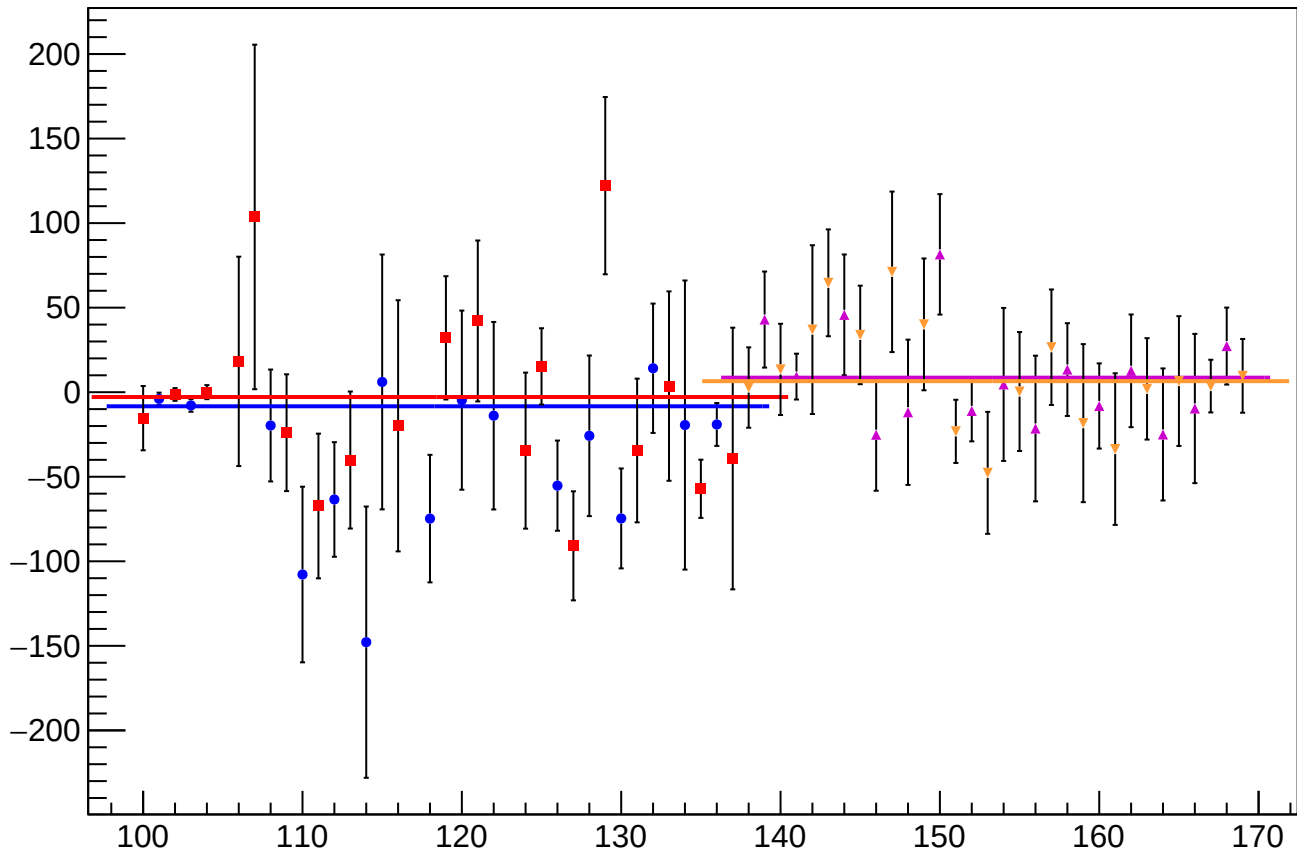
Right: 2510.930 $\pm$ 0.530 χ^2/NDF : 5356082.2/34

In: 2319.770 $\pm$ 0.418 χ^2/NDF : 5652590.9/30

Out: 2371.024 $\pm$ 0.416 χ^2/NDF : 6465431.0/35

All: 2345.508 $\pm$ 0.295 χ^2/NDF : 12125589.7/6

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -8.332 $\pm$ 2.499 χ^2/NDF : 23.4/15

Left Out: 6.534 $\pm$ 6.884 χ^2/NDF :13.7/16

Right Out: -2.848 $\pm$ 2.640 χ^2/NDF : 32.6/18

Left In: 8.595 $\pm$ 6.944 χ^2/NDF :11.8/14

Left: 7.556 $\pm$ 4.889 χ^2/NDF : 25.5/31

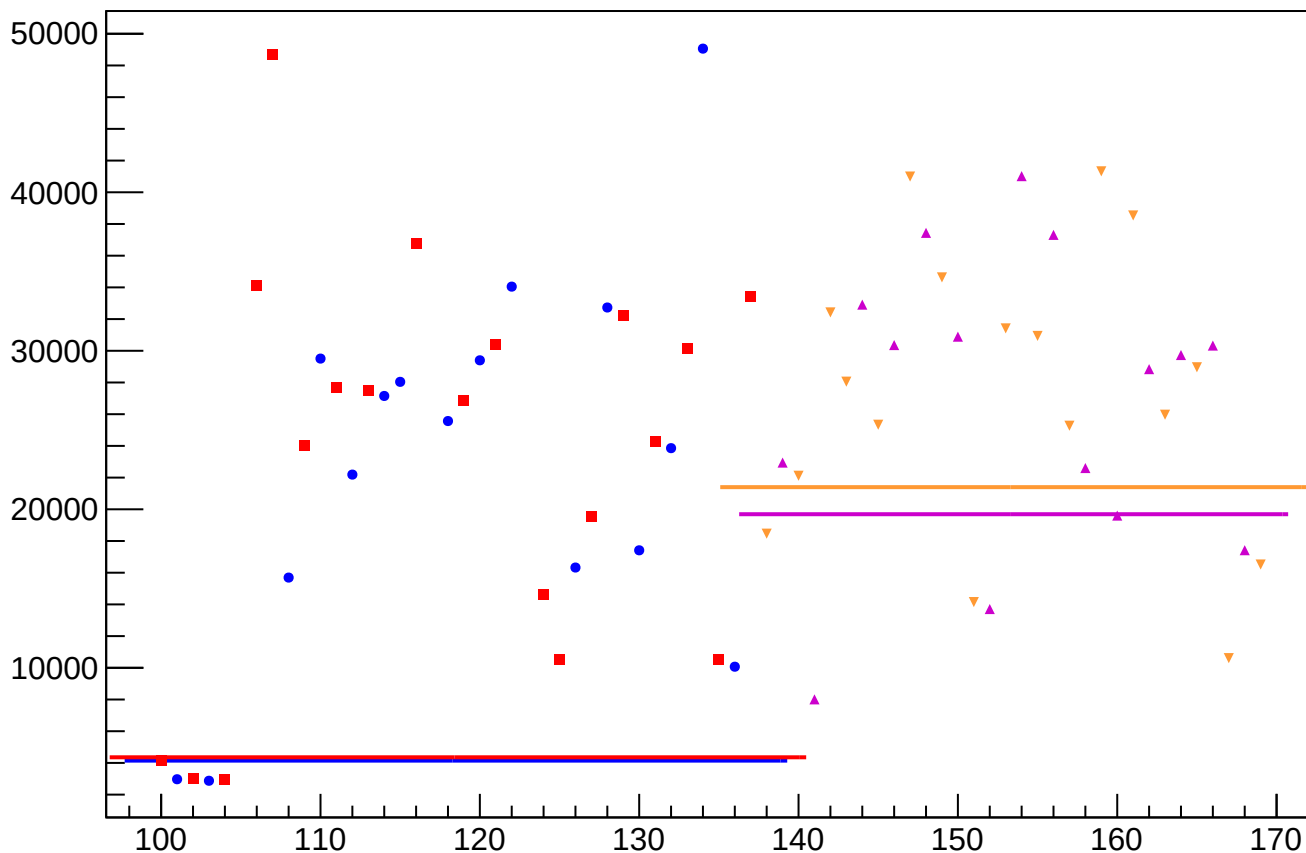
Right: -5.740 $\pm$ 1.815 χ^2/NDF : 58.3/34

In: -6.391 $\pm$ 2.352 χ^2/NDF :40.5/30

Out: -1.646 $\pm$ 2.465 χ^2/NDF :47.9/35

All: -4.129 $\pm$ 1.701 χ^2/NDF : 90.3/66

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 4145.795 ± 1.767 $\chi^2/\text{NDF}: 6836950.5/15$

Left Out: 21397.070 ± 4.868 $\chi^2/\text{NDF}: 3293611.6/16$

Right Out: 4354.437 ± 1.866 $\chi^2/\text{NDF}: 7624762.5/18$

Left In: 19689.690 ± 4.910 $\chi^2/\text{NDF}: 3975890.5/14$

Left: 20550.710 ± 3.457 $\chi^2/\text{NDF}: 7330480.1/31$

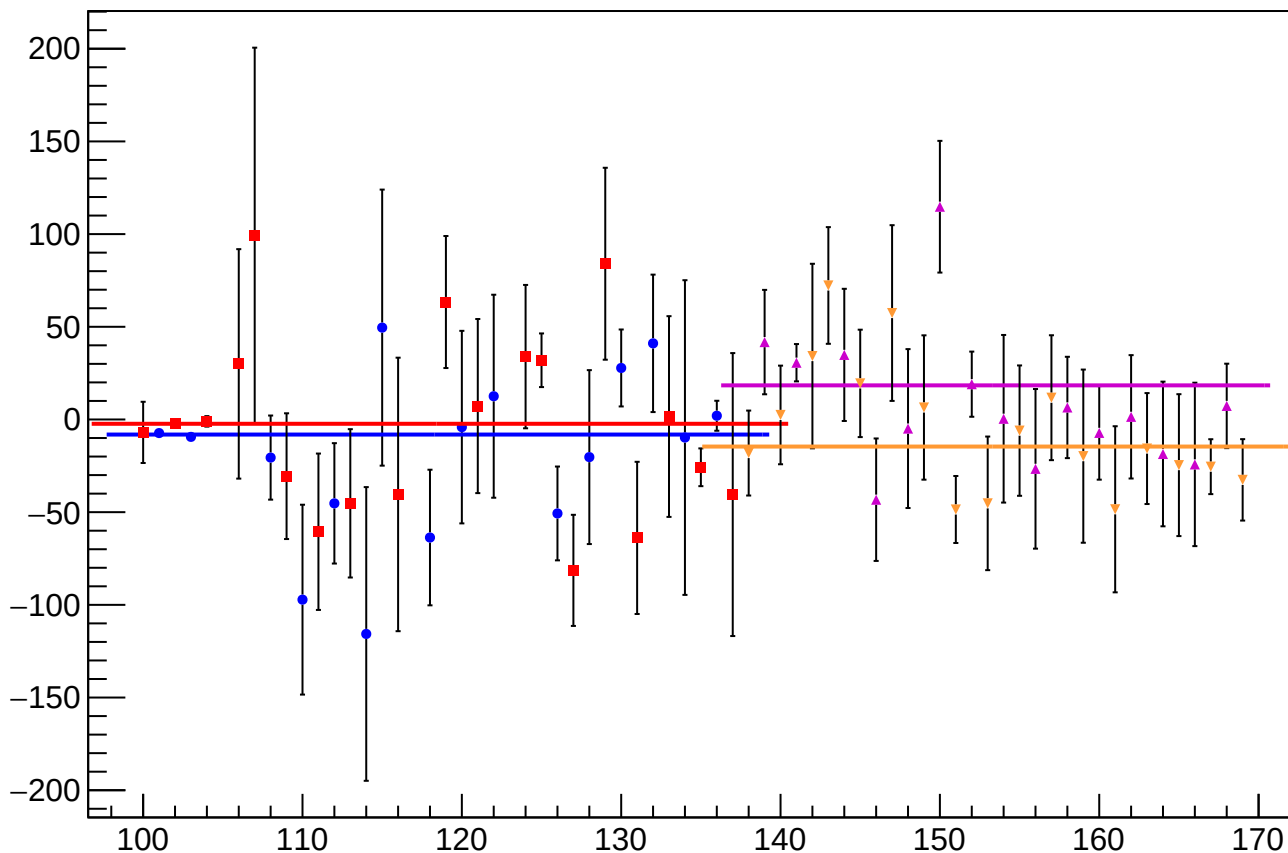
Right: 4244.429 ± 1.283 $\chi^2/\text{NDF}: 14468301.6/34$

In: 5928.639 ± 1.663 $\chi^2/\text{NDF}: 19685244.3/30$

Out: 6538.647 ± 1.743 $\chi^2/\text{NDF}: 21603921.1/35$

All: 6219.346 ± 1.203 $\chi^2/\text{NDF}: 41353296.1/6$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -8.132 $\pm$ 1.720 χ^2/NDF : 19.1/15

Left Out: -14.608 $\pm$ 6.751 χ^2/NDF : 19.8/16

Right Out: -2.325 $\pm$ 1.822 χ^2/NDF : 33.1/18

Left In: 18.403 $\pm$ 6.281 χ^2/NDF : 18.3/14

Left: 3.087 $\pm$ 4.598 χ^2/NDF : 50.9/31

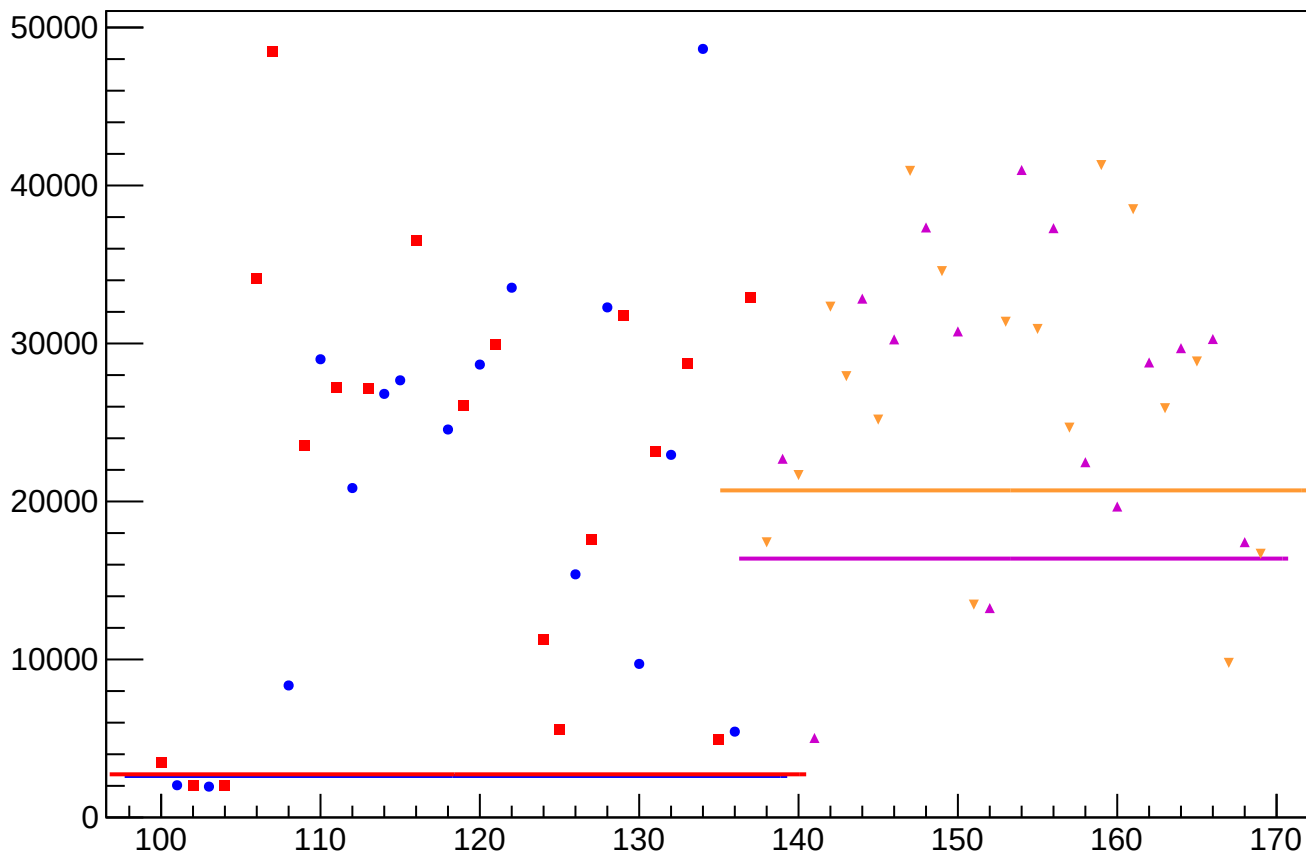
Right: -5.394 $\pm$ 1.251 χ^2/NDF : 57.5/34

In: -6.280 $\pm$ 1.659 χ^2/NDF : 54.0/30

Out: -3.158 $\pm$ 1.759 χ^2/NDF : 55.9/35

All: -4.810 $\pm$ 1.207 χ^2/NDF : 111.6/66

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2626.430 ± 1.216 $\chi^2/\text{NDF}: 6780884.6/15$

Left Out: 20701.105 ± 4.774 $\chi^2/\text{NDF}: 3626584.5/16$

Right Out: 2730.235 ± 1.288 $\chi^2/\text{NDF}: 7985984.4/18$

Left In: 16384.313 ± 4.441 $\chi^2/\text{NDF}: 6206880.4/14$

Left: 18387.093 ± 3.252 $\chi^2/\text{NDF}: 10271823.5/31$

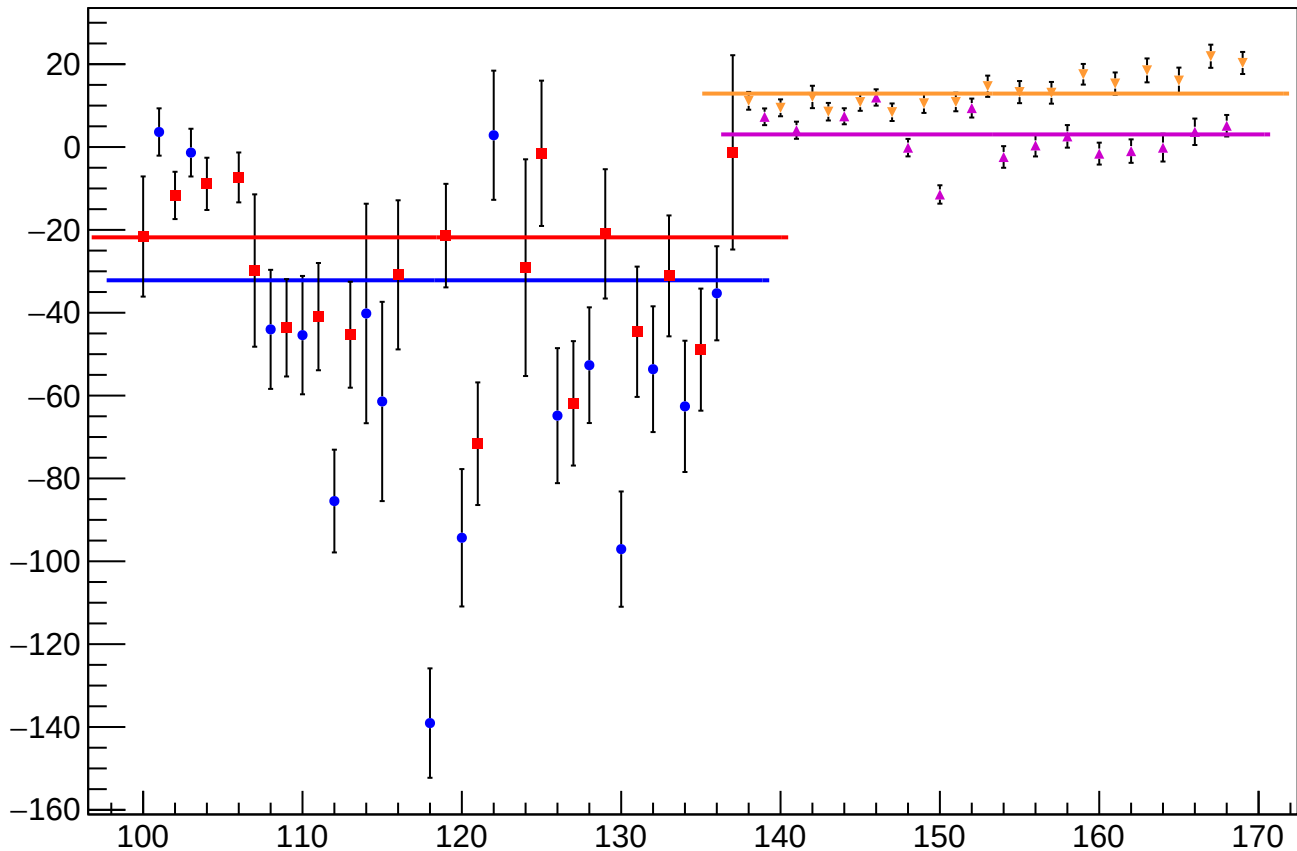
Right: 2675.367 ± 0.884 $\chi^2/\text{NDF}: 14770301.6/34$

In: 3586.689 ± 1.173 $\chi^2/\text{NDF}: 21914976.9/30$

Out: 3949.933 ± 1.244 $\chi^2/\text{NDF}: 24822999.9/35$

All: 3757.747 ± 0.853 $\chi^2/\text{NDF}: 46783114.7/66$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -32.171 $\pm$ 2.842 χ^2/NDF : 207.8/15

Left Out: 12.901 $\pm$ 0.589 χ^2/NDF :42.9/16

Right Out: -21.801 $\pm$ 2.557 χ^2/NDF : 49.1/18

Left In: 3.046 $\pm$ 0.614 χ^2/NDF :95.0/14

Left: 8.184 $\pm$ 0.425 χ^2/NDF : 272.0/31

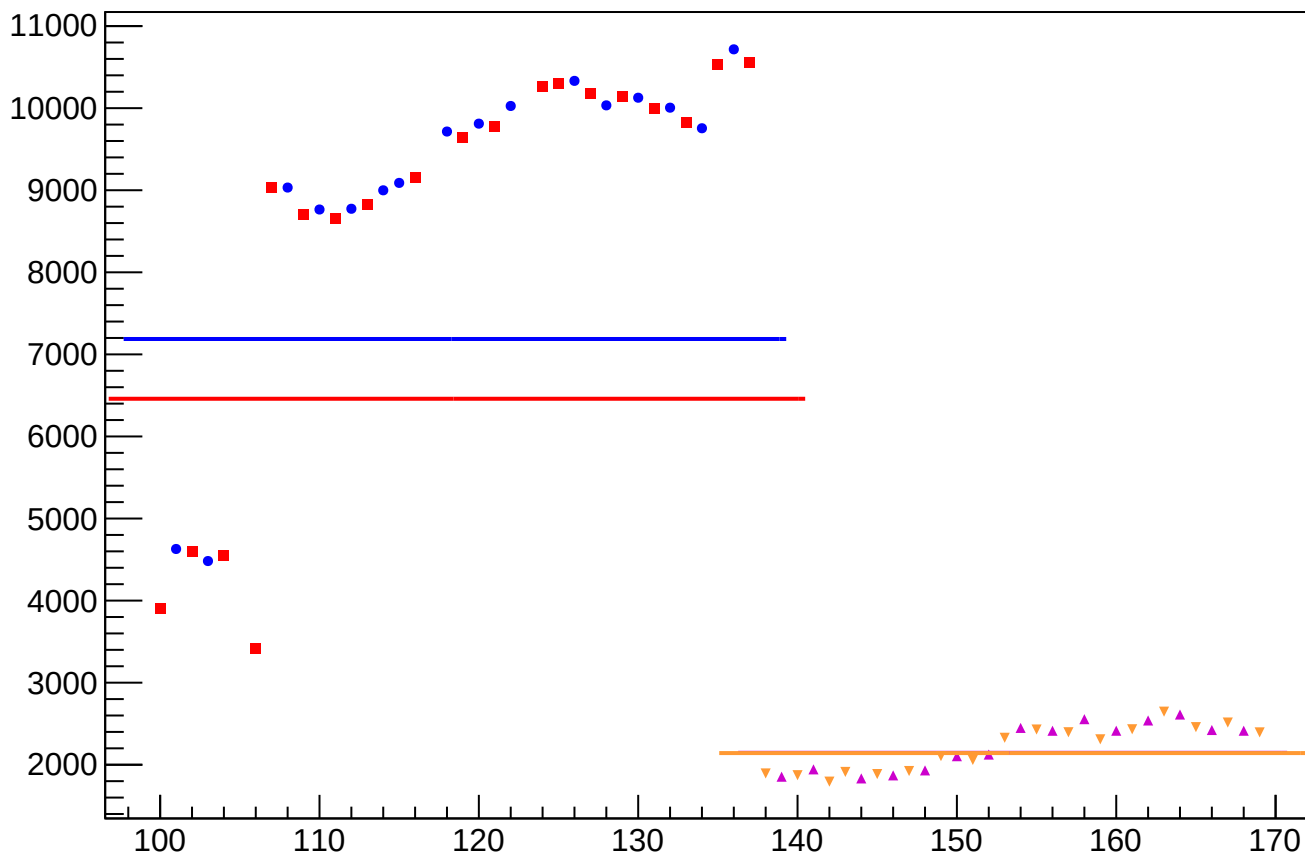
Right: -26.441 $\pm$ 1.901 χ^2/NDF : 264.2/34

In: 1.473 $\pm$ 0.601 χ^2/NDF :449.5/30

Out: 11.154 $\pm$ 0.574 χ^2/NDF :266.8/35

All: 6.534 $\pm$ 0.415 χ^2/NDF : 852.1/66

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 7187.494+/-2.009 χ^2/NDF : 1705887.0/15

Left Out: 2142.234+/-0.416 χ^2/NDF : 392443.3/16

Right Out: 6459.323+/-1.808 χ^2/NDF : 2276337.9/18

Left In: 2145.567+/-0.435 χ^2/NDF : 400628.8/14

Left: 2143.830+/-0.301 χ^2/NDF : 793102.8/31

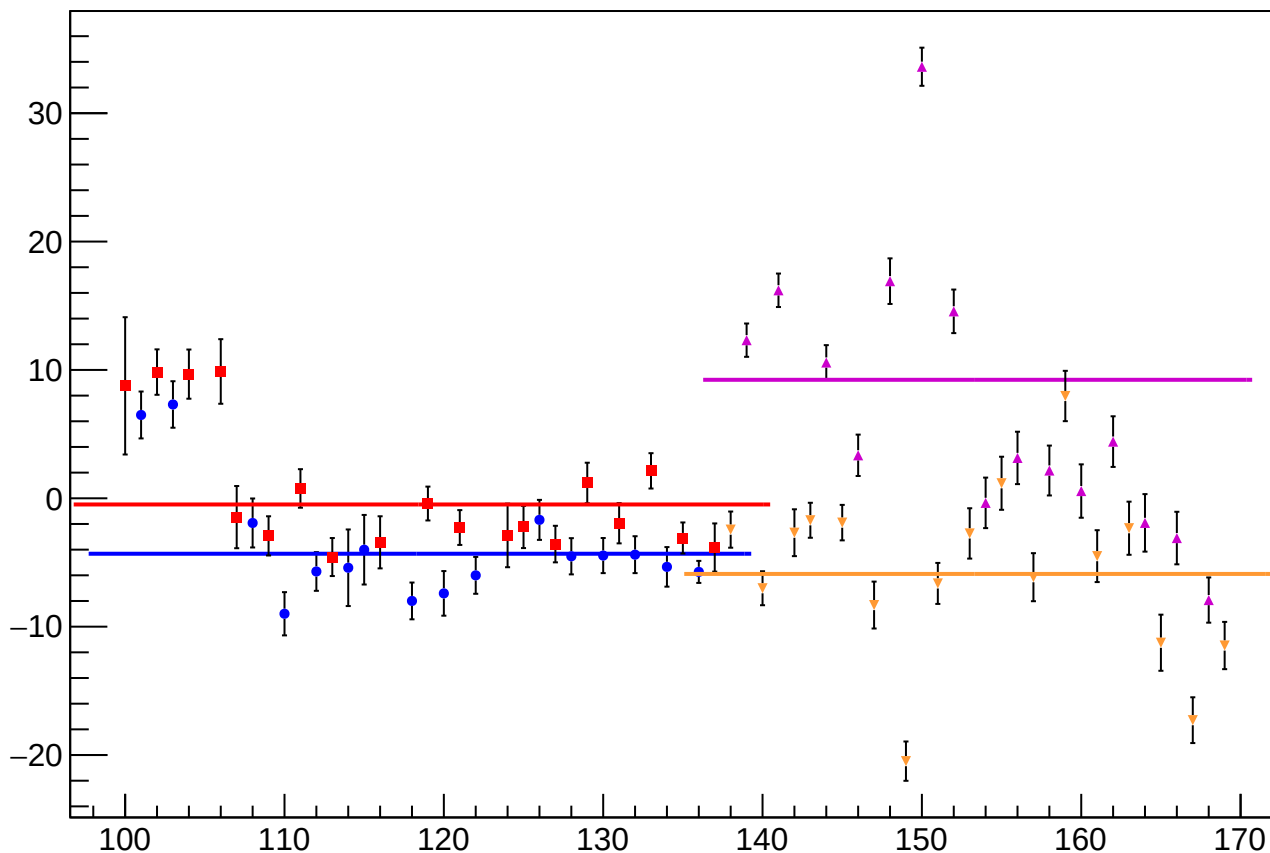
Right: 6785.150+/-1.344 χ^2/NDF : 4054781.5/34

In: 2370.788+/-0.425 χ^2/NDF : 8120915.6/30

Out: 2359.593+/-0.406 χ^2/NDF : 8081350.5/35

All: 2364.935+/-0.293 χ^2/NDF : 16202629.3/6

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -4.319 ± 0.380 χ^2/NDF : 103.7/15

Left Out: -5.892 ± 0.412 χ^2/NDF : 244.0/16

Right Out: -0.481 ± 0.379 χ^2/NDF : 117.2/18

Left In: 9.231 ± 0.437 χ^2/NDF : 571.9/14

Left: 1.228 ± 0.300 χ^2/NDF : 1450.3/31

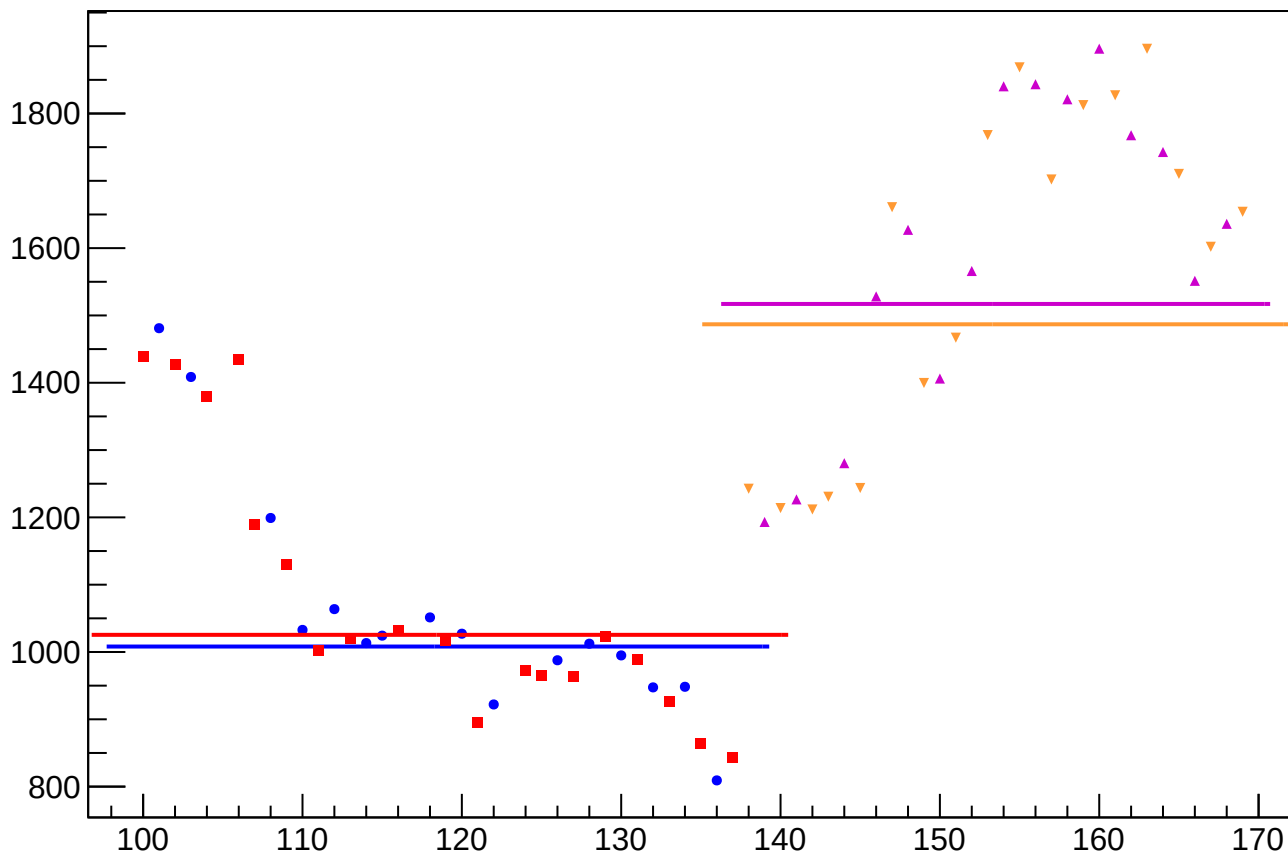
Right: -2.394 ± 0.268 χ^2/NDF : 272.1/34

In: 1.514 ± 0.287 χ^2/NDF : 1223.7/30

Out: -2.959 ± 0.279 χ^2/NDF : 454.7/35

All: -0.784 ± 0.200 χ^2/NDF : 1803.5/66

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1008.116 $\pm$ 0.269 χ^2/NDF : 378836.2/15

Left Out: 1486.853 $\pm$ 0.291 χ^2/NDF : 719707.6/16

Right Out: 1025.486 $\pm$ 0.268 χ^2/NDF : 345991.2/18

Left In: 1517.067 $\pm$ 0.309 χ^2/NDF : 588361.6/14

Left: 1501.079 $\pm$ 0.212 χ^2/NDF : 1313133.7/31

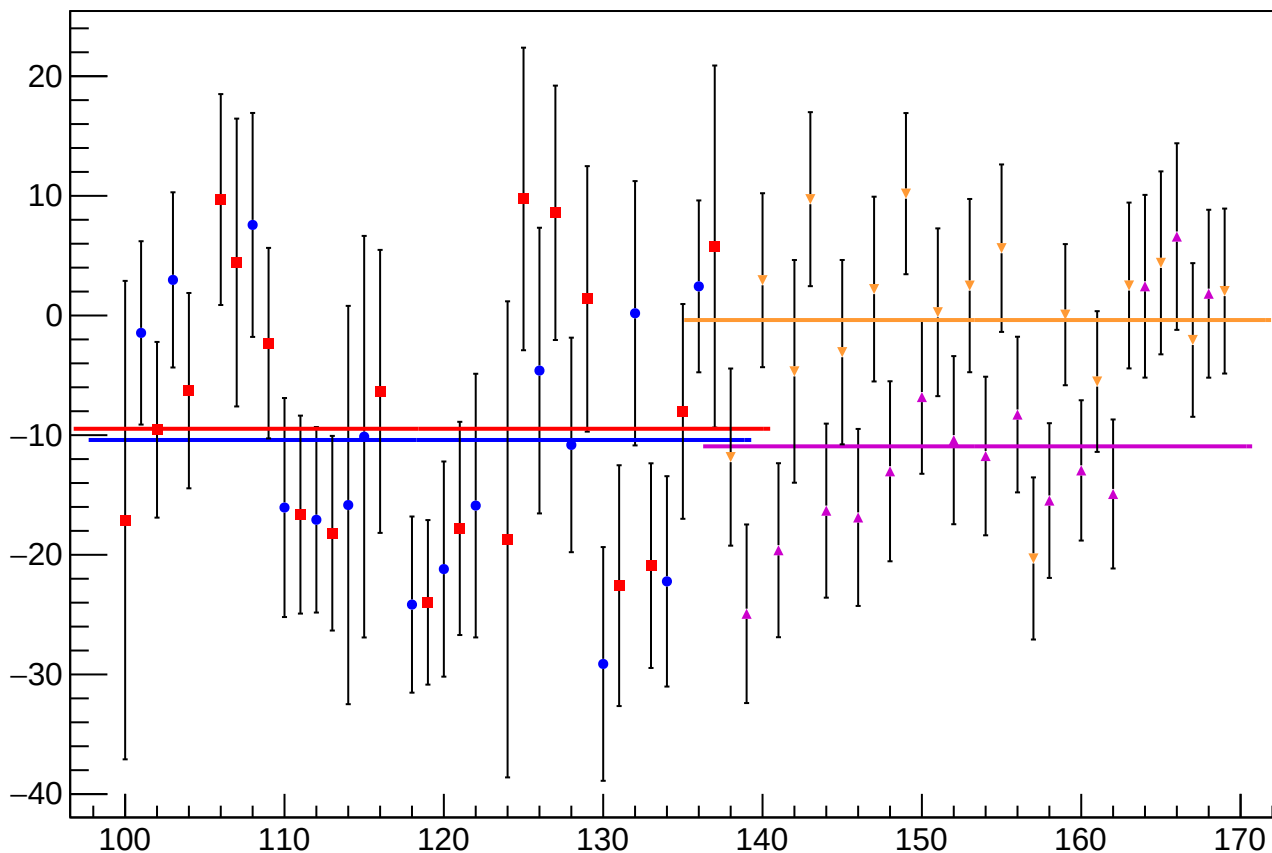
Right: 1016.826 $\pm$ 0.190 χ^2/NDF : 726925.8/34

In: 1227.221 $\pm$ 0.203 χ^2/NDF : 2513802.3/30

Out: 1236.755 $\pm$ 0.197 χ^2/NDF : 2425331.5/35

All: 1232.119 $\pm$ 0.141 χ^2/NDF : 4940271.1/66

diff_bpm0l05X_mean vs Slug, Sign Corrected



Left: -5.415 ± 1.230 $\chi^2/\text{NDF}: 56.2/31$

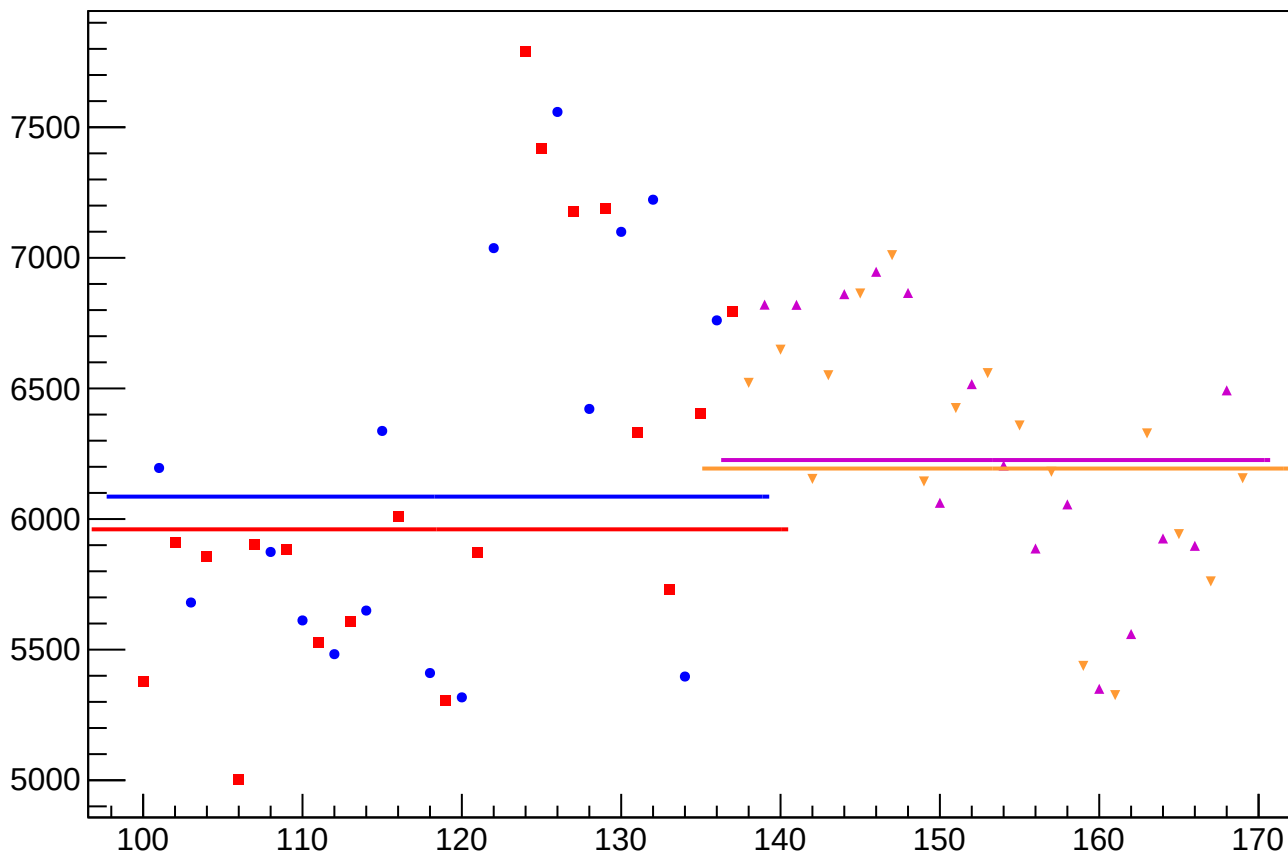
Right: -9.917 ± 1.580 $\chi^2/\text{NDF}: 50.1/34$

In: -10.734 ± 1.403 $\chi^2/\text{NDF}: 43.9/30$

Out: -3.796 ± 1.343 $\chi^2/\text{NDF}: 54.6/35$

All: -7.113 ± 0.970 $\chi^2/\text{NDF}: 111.3/66$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 6085.873 $\pm$ 1.612 χ^2 /NDF: 179118.8/15

Left Out: 6193.367 $\pm$ 1.202 χ^2 /NDF: 151005.6/16

Right Out: 5960.613 $\pm$ 1.549 χ^2 /NDF: 162772.6/18

Left In: 6225.893 $\pm$ 1.259 χ^2 /NDF: 163352.0/14

Left: 6208.882 $\pm$ 0.870 χ^2 /NDF: 314706.6/31

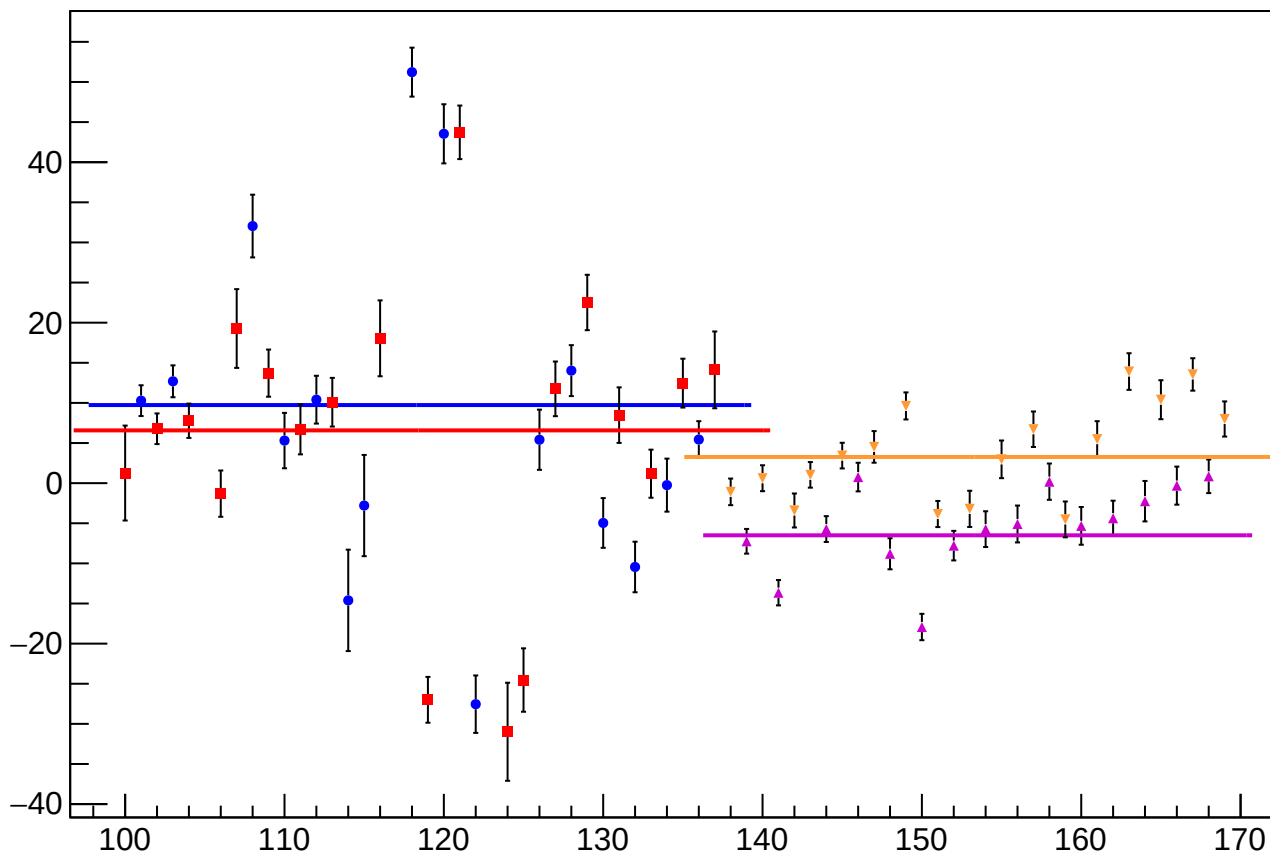
Right: 6020.747 $\pm$ 1.117 χ^2 /NDF: 345029.9/34

In: 6172.847 $\pm$ 0.992 χ^2 /NDF: 347156.0/30

Out: 6105.864 $\pm$ 0.950 χ^2 /NDF: 327864.7/35

All: 6137.892 $\pm$ 0.686 χ^2 /NDF: 677398.3/66

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 9.733 ± 0.755 $\chi^2/\text{NDF}: 512.4/15$

Left Out: 3.265 ± 0.469 $\chi^2/\text{NDF}: 139.9/16$

Right Out: 6.576 ± 0.730 $\chi^2/\text{NDF}: 423.8/18$

Left In: -6.500 ± 0.500 $\chi^2/\text{NDF}: 120.2/14$

Left: -1.306 ± 0.342 $\chi^2/\text{NDF}: 462.7/31$

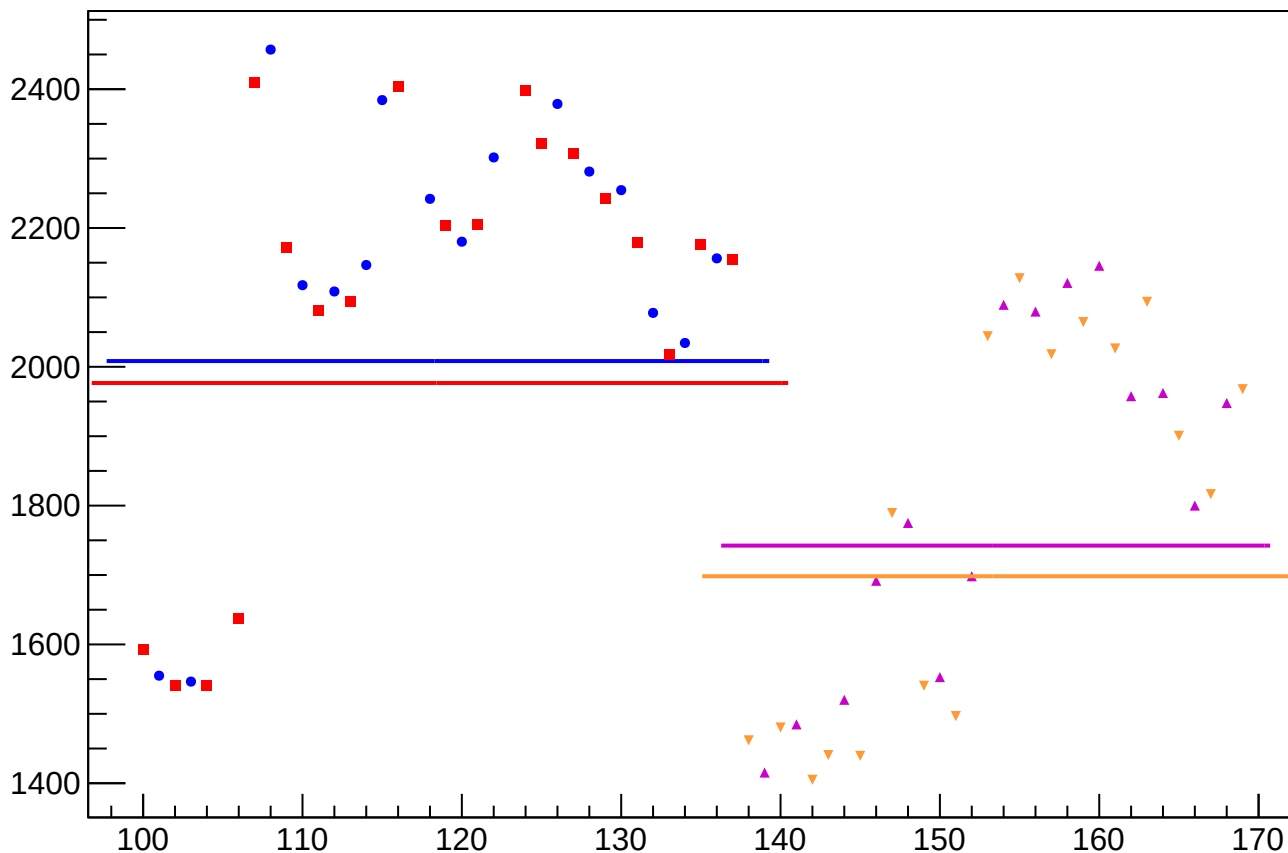
Right: 8.102 ± 0.525 $\chi^2/\text{NDF}: 945.2/34$

In: -1.546 ± 0.417 $\chi^2/\text{NDF}: 953.8/30$

Out: 4.233 ± 0.395 $\chi^2/\text{NDF}: 578.2/35$

All: 1.501 ± 0.287 $\chi^2/\text{NDF}: 1633.3/66$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 2008.296 $\pm$ 0.534 χ^2 /NDF: 344387.2/15

Left Out: 1698.237 $\pm$ 0.332 χ^2 /NDF:635938.4/16

Right Out: 1976.677 $\pm$ 0.516 χ^2 /NDF: 365375.1/18

Left In: 1742.376 $\pm$ 0.354 χ^2 /NDF:473031.6/14

Left: 1718.900 $\pm$ 0.242 χ^2 /NDF: 1117247.8/31

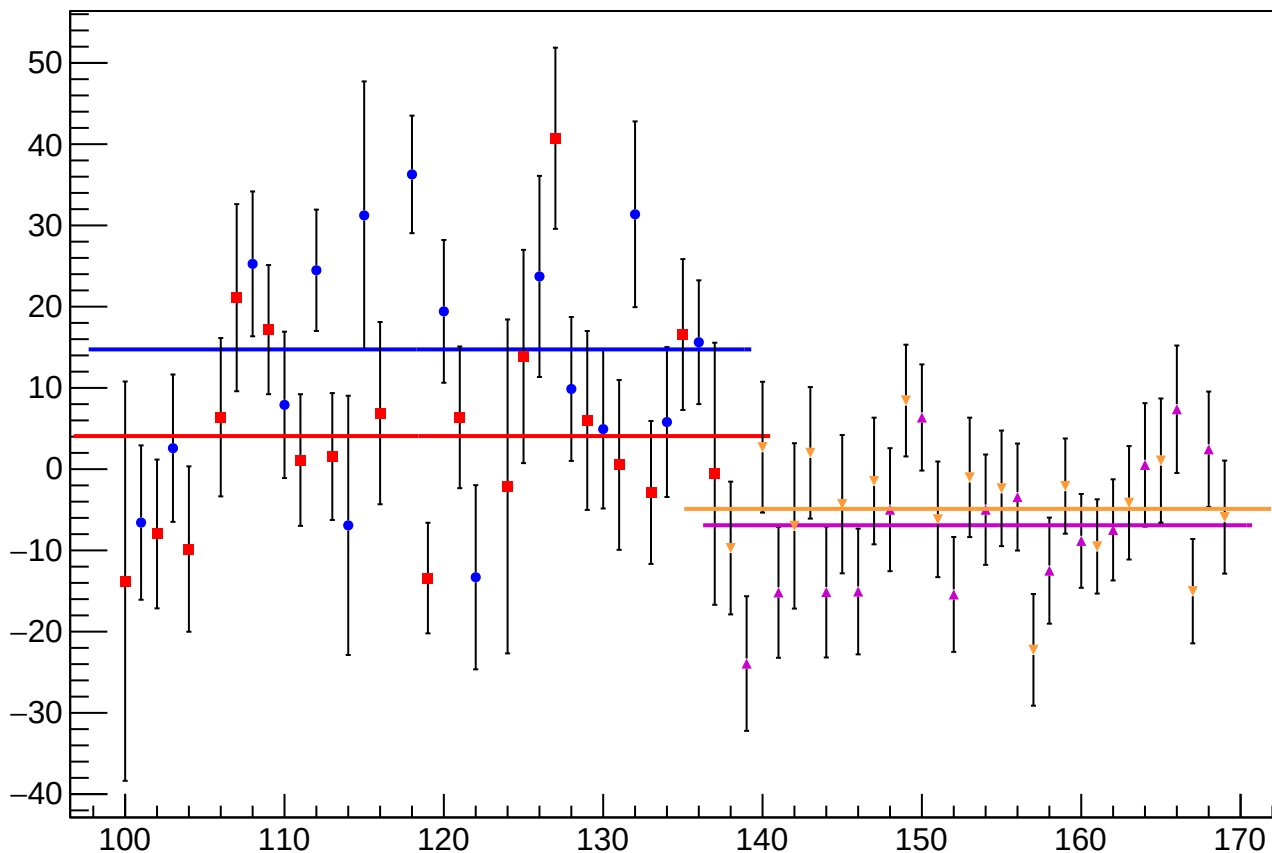
Right: 1991.963 $\pm$ 0.371 χ^2 /NDF: 711574.8/34

In: 1823.536 $\pm$ 0.295 χ^2 /NDF:989837.0/30

Out: 1779.641 $\pm$ 0.279 χ^2 /NDF:1207029.8/35

All: 1800.391 $\pm$ 0.203 χ^2 /NDF: 2208548.3/66

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 14.739 $\pm$ 2.358 χ^2/NDF : 33.5/15

Left Out: -4.890 $\pm$ 1.748 χ^2/NDF : 16.8/16

Right Out: 4.072 $\pm$ 2.274 χ^2/NDF : 30.2/18

Left In: -6.905 $\pm$ 1.825 χ^2/NDF : 20.3/14

Left: -5.854 $\pm$ 1.262 χ^2/NDF : 37.7/31

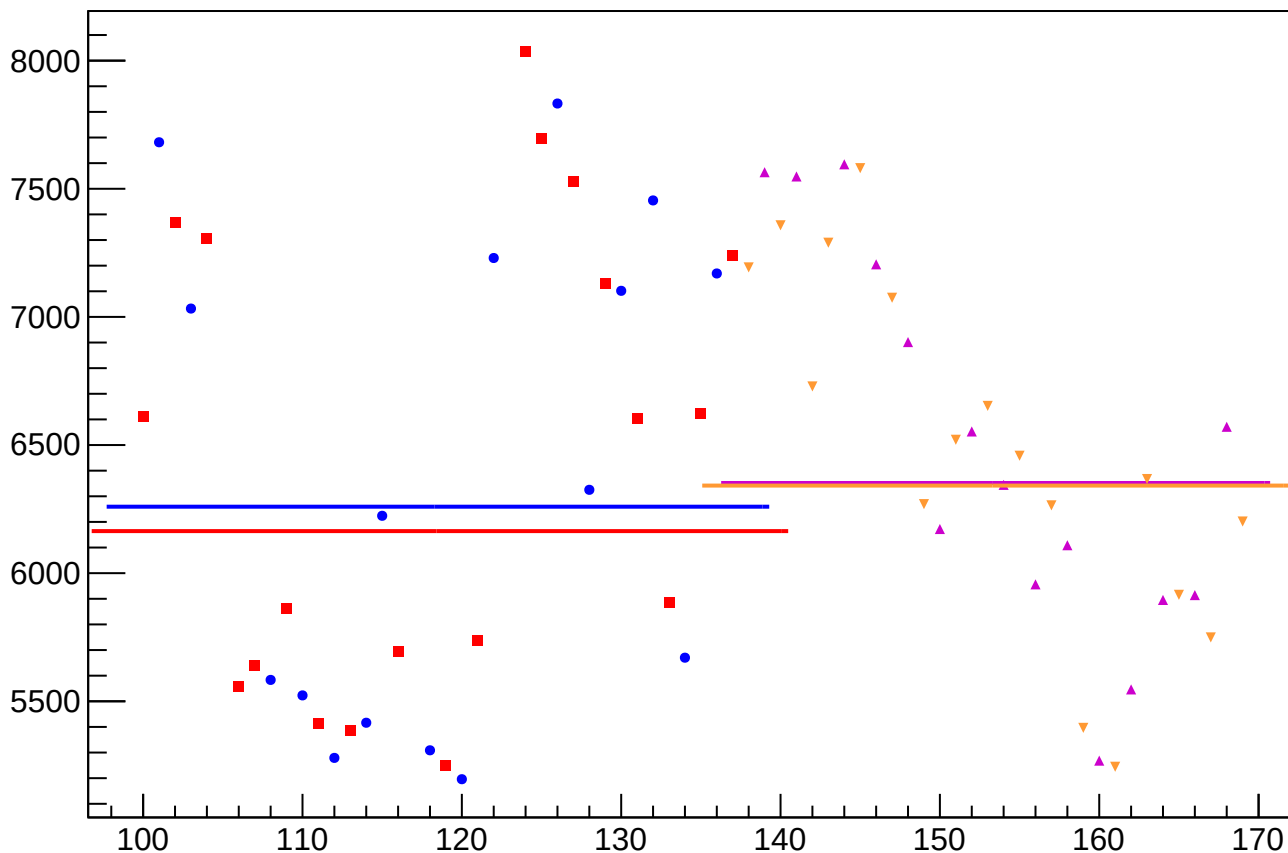
Right: 9.212 $\pm$ 1.637 χ^2/NDF : 74.3/34

In: 1.203 $\pm$ 1.443 χ^2/NDF : 106.5/30

Out: -1.561 $\pm$ 1.386 χ^2/NDF : 56.7/35

All: -0.235 $\pm$ 0.999 χ^2/NDF : 165.1/66

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6259.416 $\pm$ 1.667 χ^2 /NDF: 308606.8/15

Left Out: 6341.790 $\pm$ 1.236 χ^2 /NDF:297433.5/16

Right Out: 6164.140 $\pm$ 1.608 χ^2 /NDF: 265058.6/18

Left In: 6351.898 $\pm$ 1.290 χ^2 /NDF:301812.9/14

Left: 6346.627 $\pm$ 0.893 χ^2 /NDF: 599278.4/31

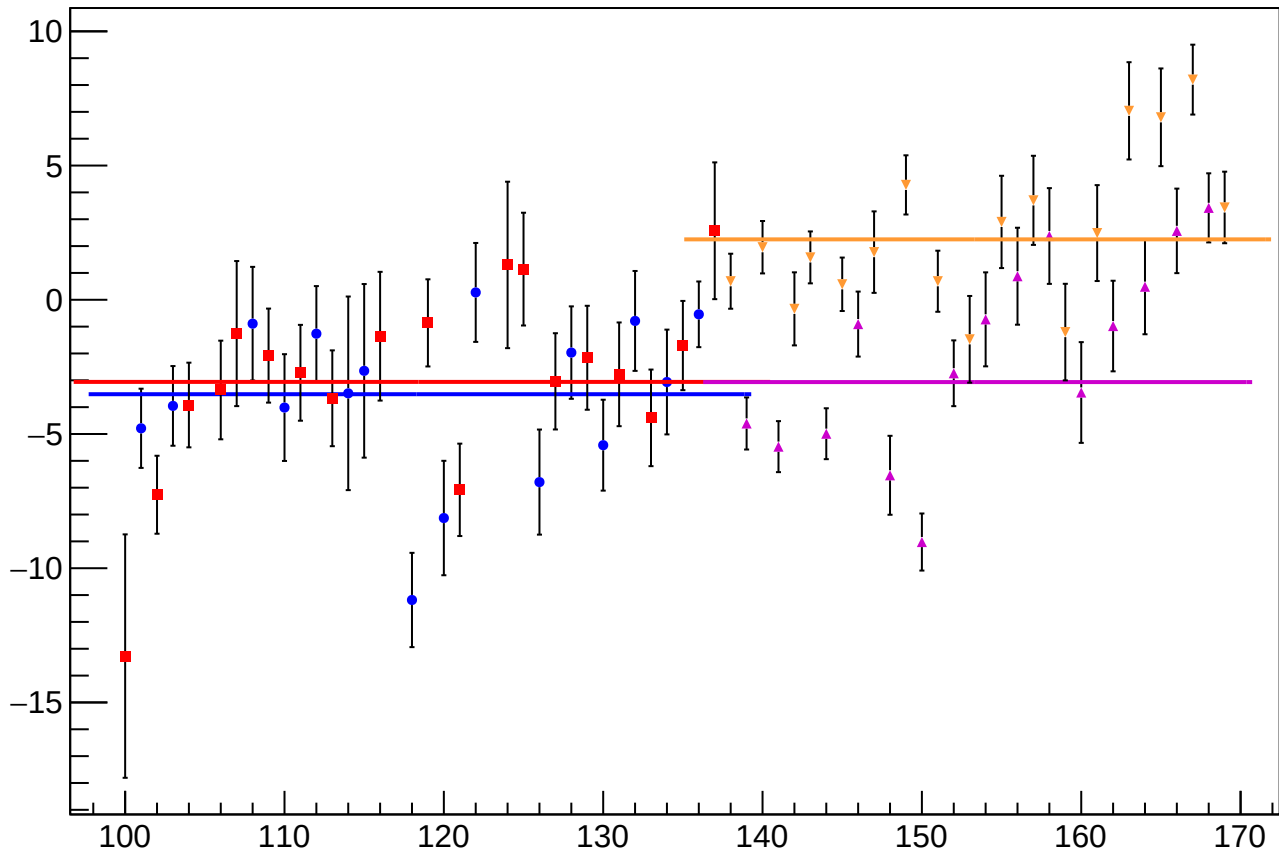
Right: 6210.053 $\pm$ 1.157 χ^2 /NDF: 575357.6/34

In: 6317.254 $\pm$ 1.020 χ^2 /NDF:612344.3/30

Out: 6275.806 $\pm$ 0.980 χ^2 /NDF:570166.3/35

All: 6295.691 $\pm$ 0.707 χ^2 /NDF: 1183369.0/60

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -3.518 ± 0.452 χ^2/NDF : 45.1/15

Left Out: 2.250 ± 0.314 χ^2/NDF : 59.5/16

Right Out: -3.059 ± 0.438 χ^2/NDF : 34.8/18

Left In: -3.066 ± 0.335 χ^2/NDF : 113.0/14

Left: -0.236 ± 0.229 χ^2/NDF : 306.2/31

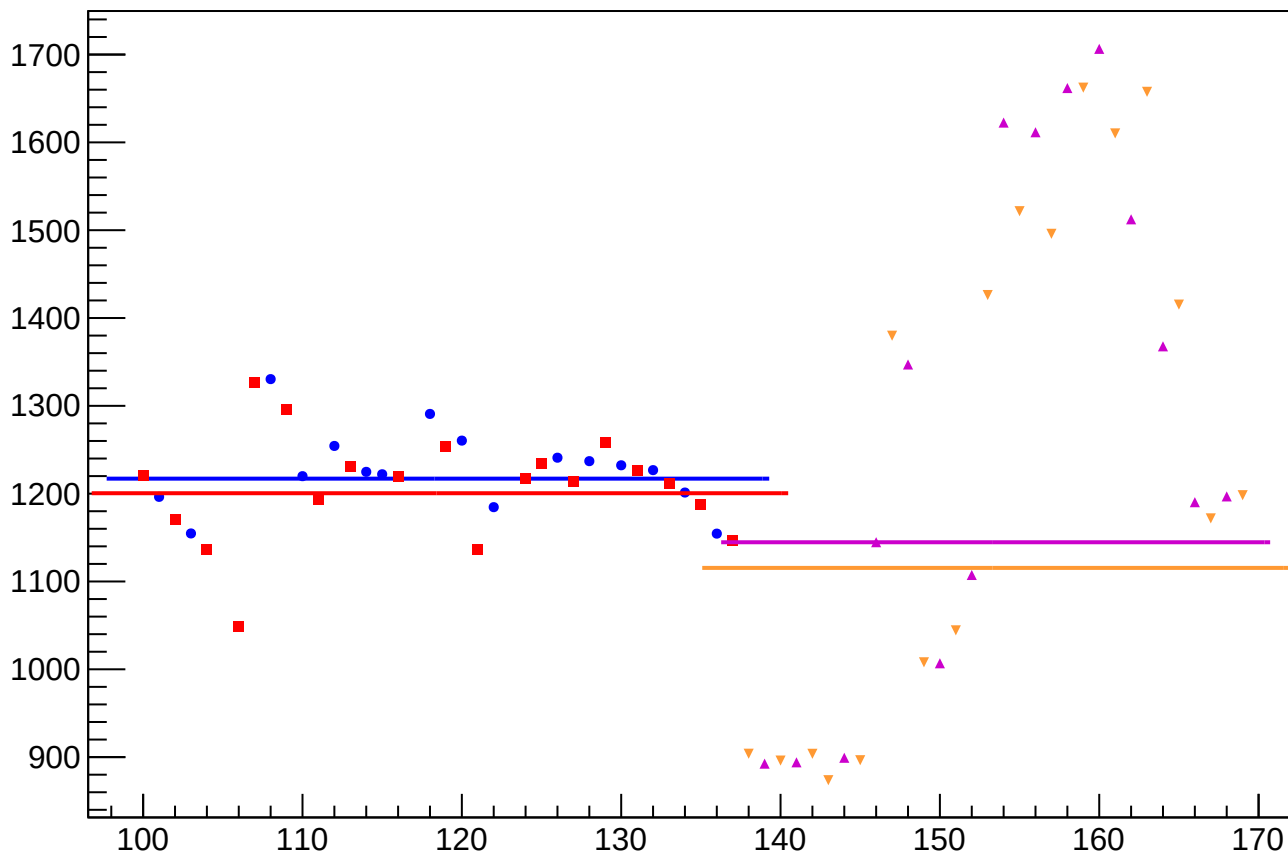
Right: -3.281 ± 0.315 χ^2/NDF : 80.4/34

In: -3.226 ± 0.269 χ^2/NDF : 158.7/30

Out: 0.447 ± 0.255 χ^2/NDF : 191.2/35

All: -1.292 ± 0.185 χ^2/NDF : 447.7/66

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1217.094+/-0.320 χ^2/NDF : 21686.7/15

Left Out: 1115.464+/-0.222 χ^2/NDF : 1417681.9/16

Right Out: 1200.497+/-0.310 χ^2/NDF : 37654.3/18

Left In: 1144.664+/-0.237 χ^2/NDF : 1243228.6/14

Left: 1129.119+/-0.162 χ^2/NDF : 2668977.3/31

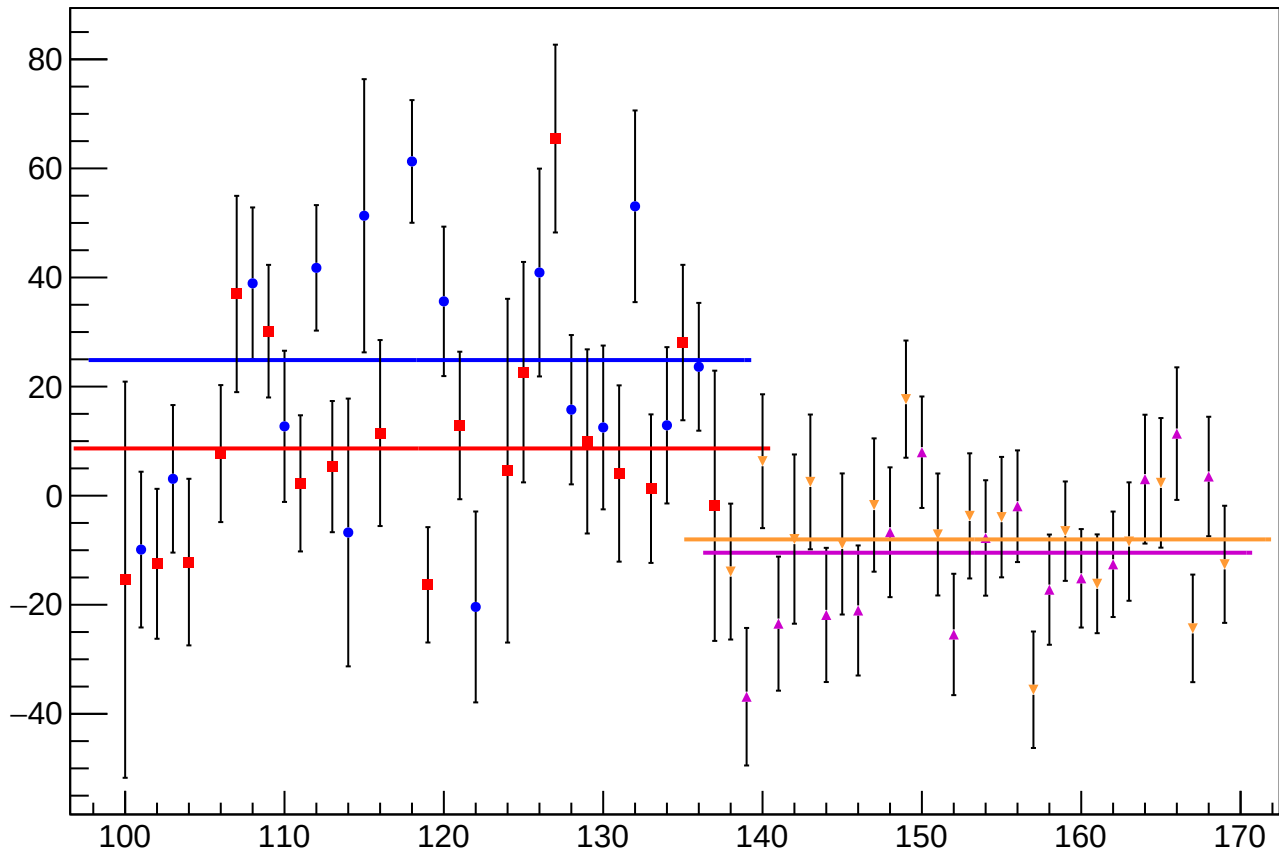
Right: 1208.533+/-0.223 χ^2/NDF : 60729.4/34

In: 1170.360+/-0.191 χ^2/NDF : 1297991.6/30

Out: 1144.351+/-0.181 χ^2/NDF : 1505031.1/35

All: 1156.663+/-0.131 χ^2/NDF : 2812835.1/66

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: 24.860 ± 3.628 $\chi^2/\text{NDF}: 38.1/15$

Left Out: -8.018 ± 2.707 $\chi^2/\text{NDF}: 19.8/16$

Right Out: 8.658 ± 3.454 $\chi^2/\text{NDF}: 30.1/18$

Left In: -10.462 ± 2.831 $\chi^2/\text{NDF}: 20.0/14$

Left: -9.185 ± 1.957 $\chi^2/\text{NDF}: 40.2/31$

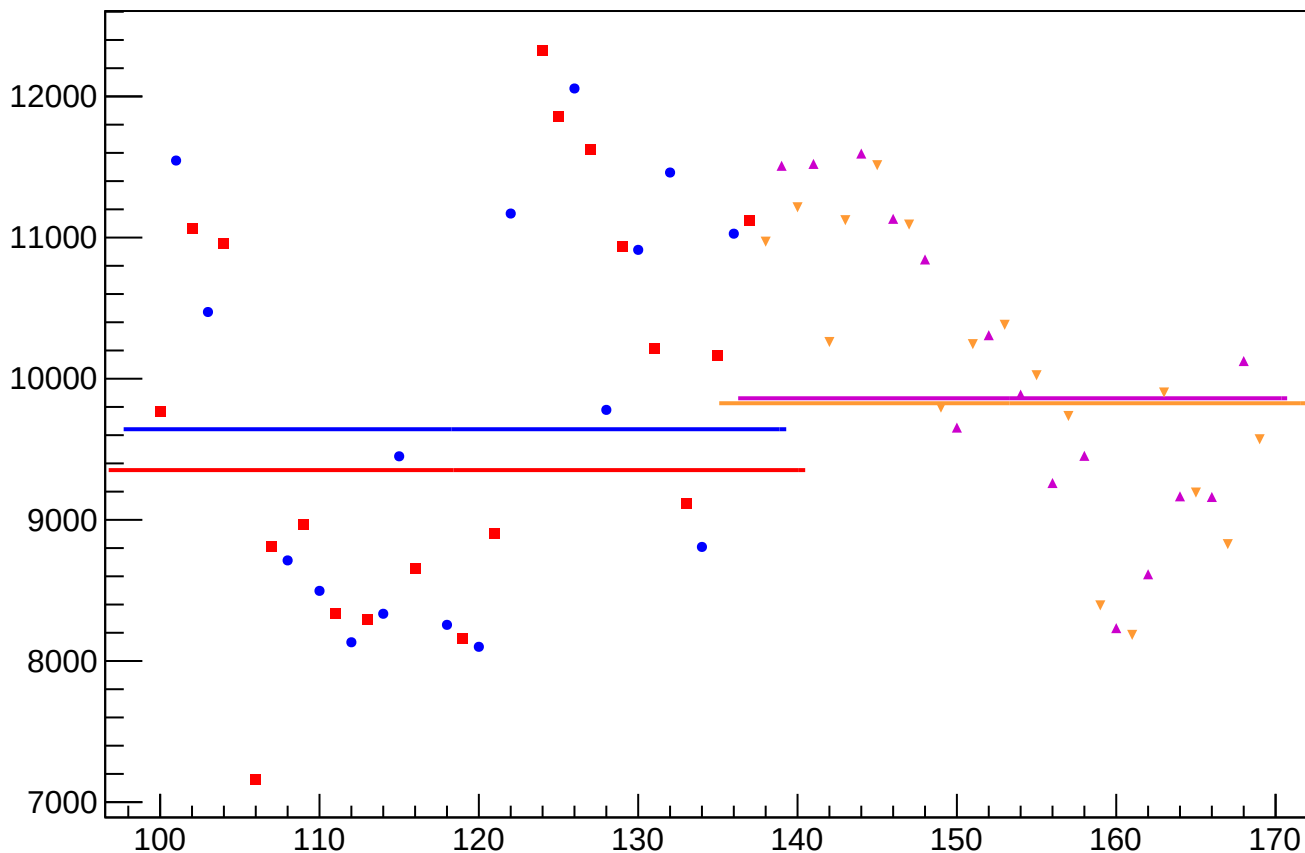
Right: 16.361 ± 2.501 $\chi^2/\text{NDF}: 78.7/34$

In: 2.906 ± 2.232 $\chi^2/\text{NDF}: 117.1/30$

Out: -1.672 ± 2.131 $\chi^2/\text{NDF}: 64.4/35$

All: 0.511 ± 1.541 $\chi^2/\text{NDF}: 183.6/66$

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9642.075 $\pm$ 2.565 χ^2 /NDF: 279657.4/15

Left Out: 9826.236 $\pm$ 1.914 χ^2 /NDF: 272328.7/16

Right Out: 9352.503 $\pm$ 2.442 χ^2 /NDF: 301779.3/18

Left In: 9861.470 $\pm$ 2.002 χ^2 /NDF: 274057.5/14

Left: 9843.066 $\pm$ 1.383 χ^2 /NDF: 546548.1/31

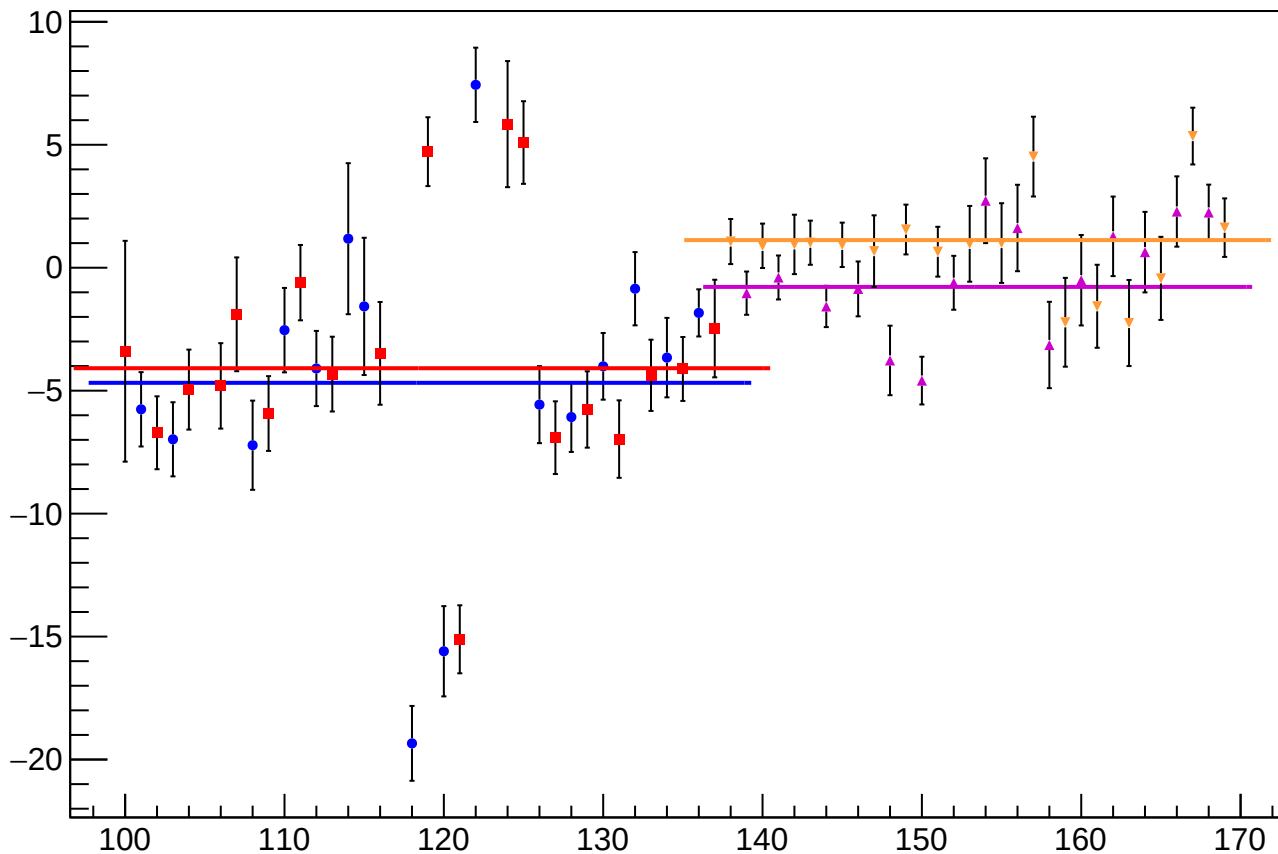
Right: 9490.167 $\pm$ 1.769 χ^2 /NDF: 588120.8/34

In: 9778.441 $\pm$ 1.578 χ^2 /NDF: 558261.1/30

Out: 9645.949 $\pm$ 1.507 χ^2 /NDF: 597417.1/35

All: 9709.122 $\pm$ 1.090 χ^2 /NDF: 1159365.8/66

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -4.681 ± 0.386 χ^2/NDF : 221.2/15

Left Out: 1.123 ± 0.289 χ^2/NDF : 29.2/16

Right Out: -4.087 ± 0.376 χ^2/NDF : 168.1/18

Left In: -0.780 ± 0.309 χ^2/NDF : 43.0/14

Left: 0.235 ± 0.211 χ^2/NDF : 92.4/31

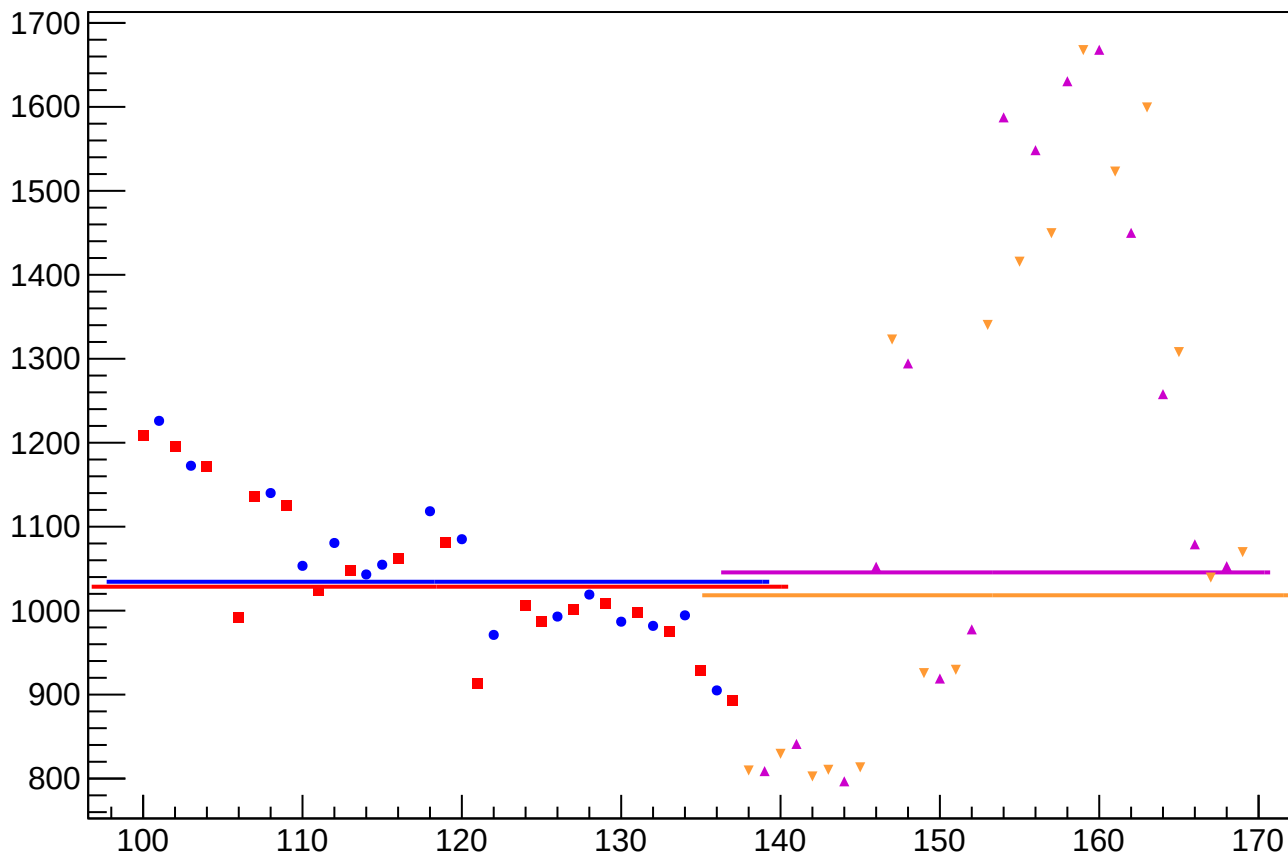
Right: -4.376 ± 0.269 χ^2/NDF : 390.5/34

In: -2.306 ± 0.241 χ^2/NDF : 326.4/30

Out: -0.810 ± 0.229 χ^2/NDF : 317.8/35

All: -1.520 ± 0.166 χ^2/NDF : 664.4/66

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 1034.402+/-0.273 χ^2/NDF : 113278.6/15

Left Out: 1018.302+/-0.204 χ^2/NDF : 1654869.5/16

Right Out: 1028.501+/-0.266 χ^2/NDF : 101624.8/18

Left In: 1045.538+/-0.219 χ^2/NDF : 1500939.3/14

Left: 1031.009+/-0.149 χ^2/NDF : 3164090.9/31

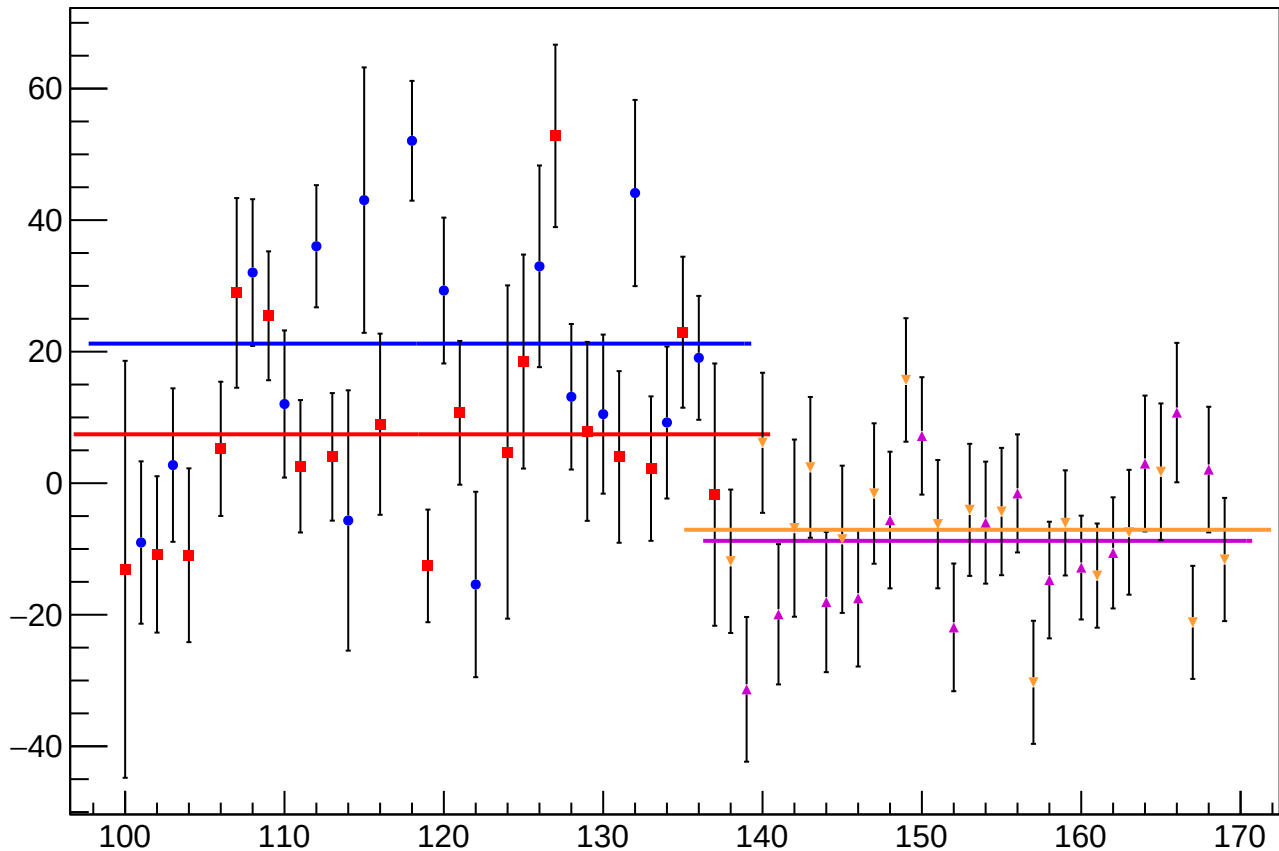
Right: 1031.379+/-0.190 χ^2/NDF : 215143.2/34

In: 1041.184+/-0.171 χ^2/NDF : 1615232.8/30

Out: 1022.086+/-0.162 χ^2/NDF : 1757417.9/35

All: 1031.150+/-0.118 χ^2/NDF : 3379236.4/66

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 21.222 $\pm$ 2.952 χ^2/NDF : 40.1/15

Left Out: -7.080 $\pm$ 2.364 χ^2/NDF :19.4/16

Right Out: 7.435 $\pm$ 2.810 χ^2/NDF : 29.8/18

Left In: -8.763 $\pm$ 2.472 χ^2/NDF :19.4/14

Left: -7.884 $\pm$ 1.709 χ^2/NDF : 39.0/31

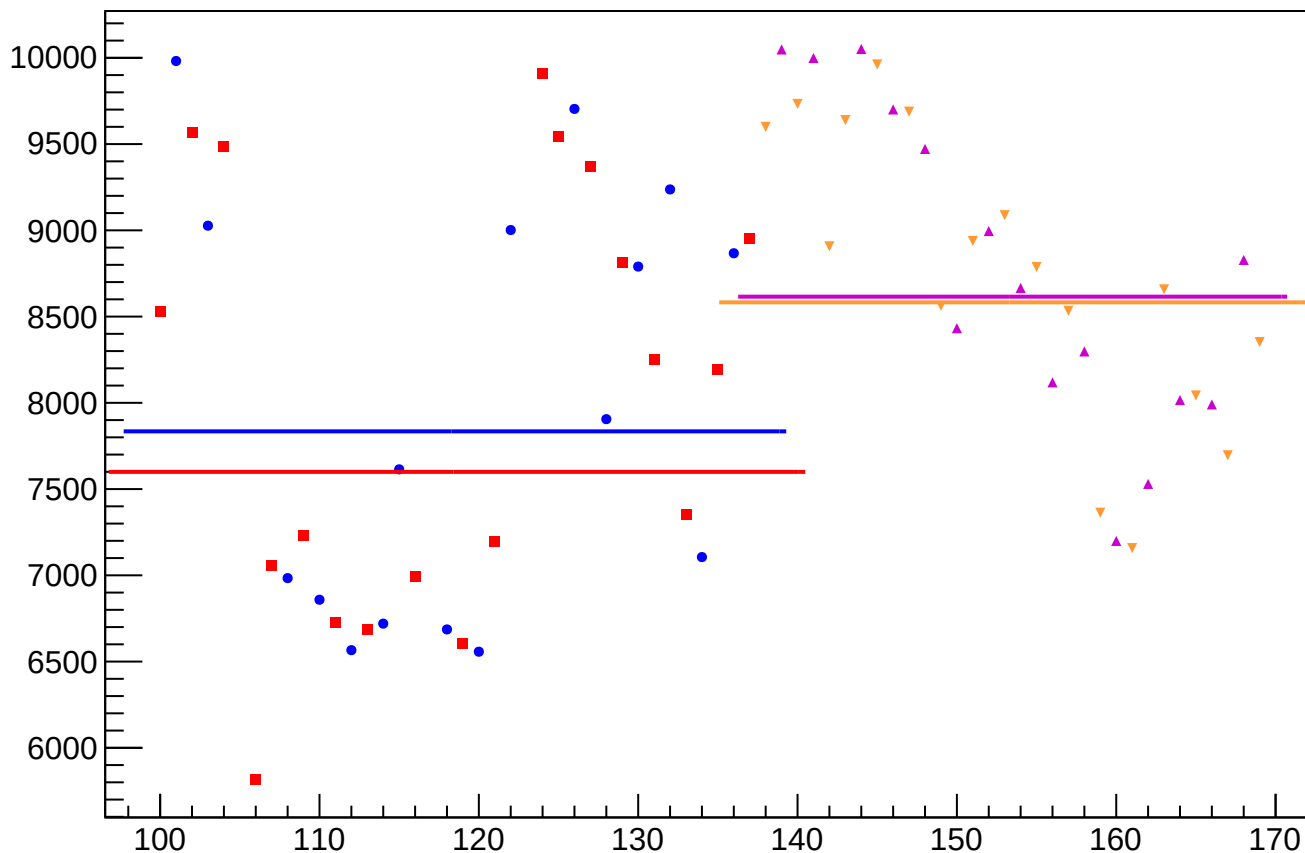
Right: 13.990 $\pm$ 2.035 χ^2/NDF : 81.3/34

In: 3.600 $\pm$ 1.895 χ^2/NDF :120.1/30

Out: -1.066 $\pm$ 1.809 χ^2/NDF :64.9/35

All: 1.158 $\pm$ 1.309 χ^2/NDF : 188.1/66

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 7834.618 $\pm$ 2.087 χ^2/NDF : 318089.6/15

Left Out: 8582.484 $\pm$ 1.671 χ^2/NDF :261147.1/16

Right Out: 7599.749 $\pm$ 1.987 χ^2/NDF : 344296.8/18

Left In: 8615.405 $\pm$ 1.748 χ^2/NDF :263988.4/14

Left: 8598.206 $\pm$ 1.208 χ^2/NDF : 525320.8/31

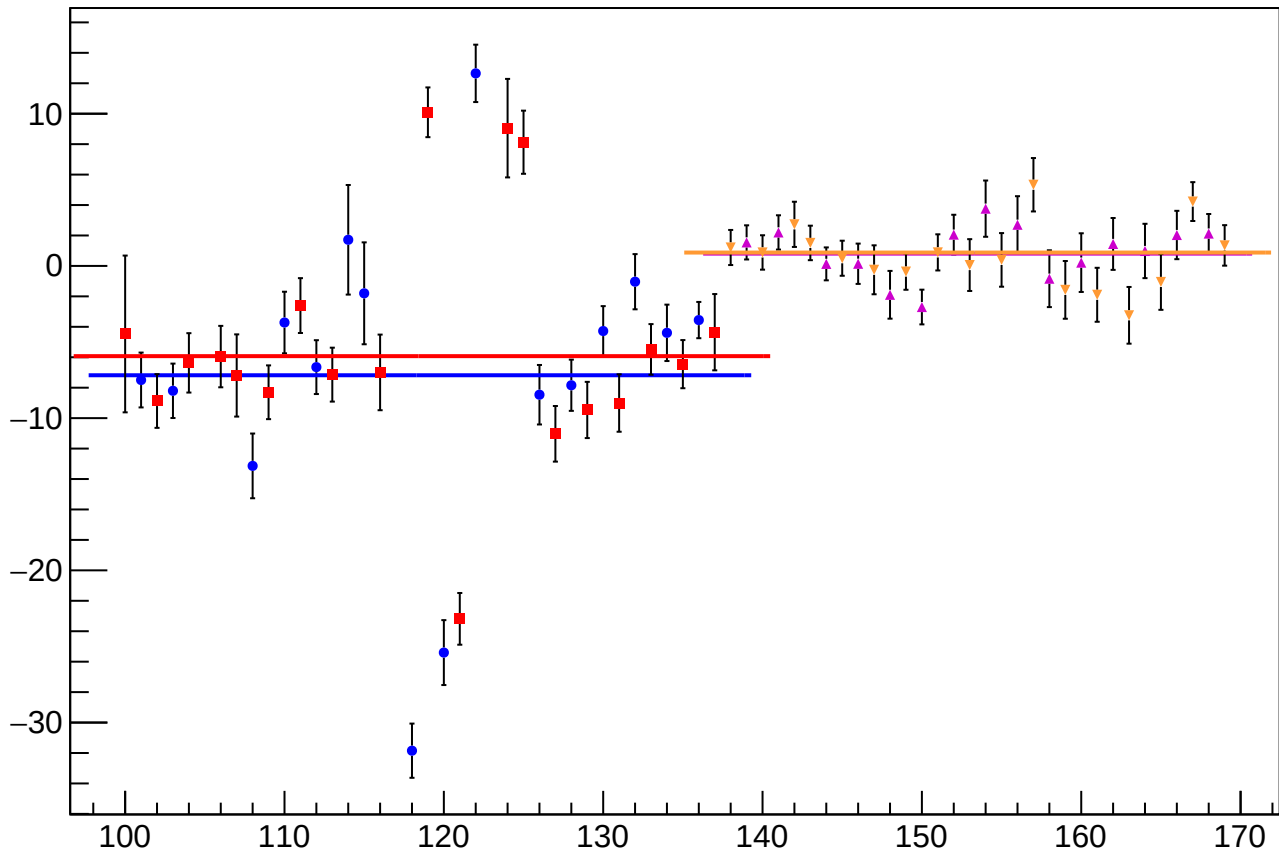
Right: 7711.419 $\pm$ 1.439 χ^2/NDF : 669028.2/34

In: 8293.480 $\pm$ 1.340 χ^2/NDF :664315.9/30

Out: 8175.288 $\pm$ 1.279 χ^2/NDF :748674.1/35

All: 8231.629 $\pm$ 0.925 χ^2/NDF : 1417059.8/66

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -7.183 ± 0.462 χ^2/NDF : 422.2/15

Left Out: 0.879 ± 0.340 χ^2/NDF : 27.6/16

Right Out: -5.927 ± 0.449 χ^2/NDF : 290.4/18

Left In: 0.808 ± 0.364 χ^2/NDF : 22.2/14

Left: 0.846 ± 0.248 χ^2/NDF : 49.8/31

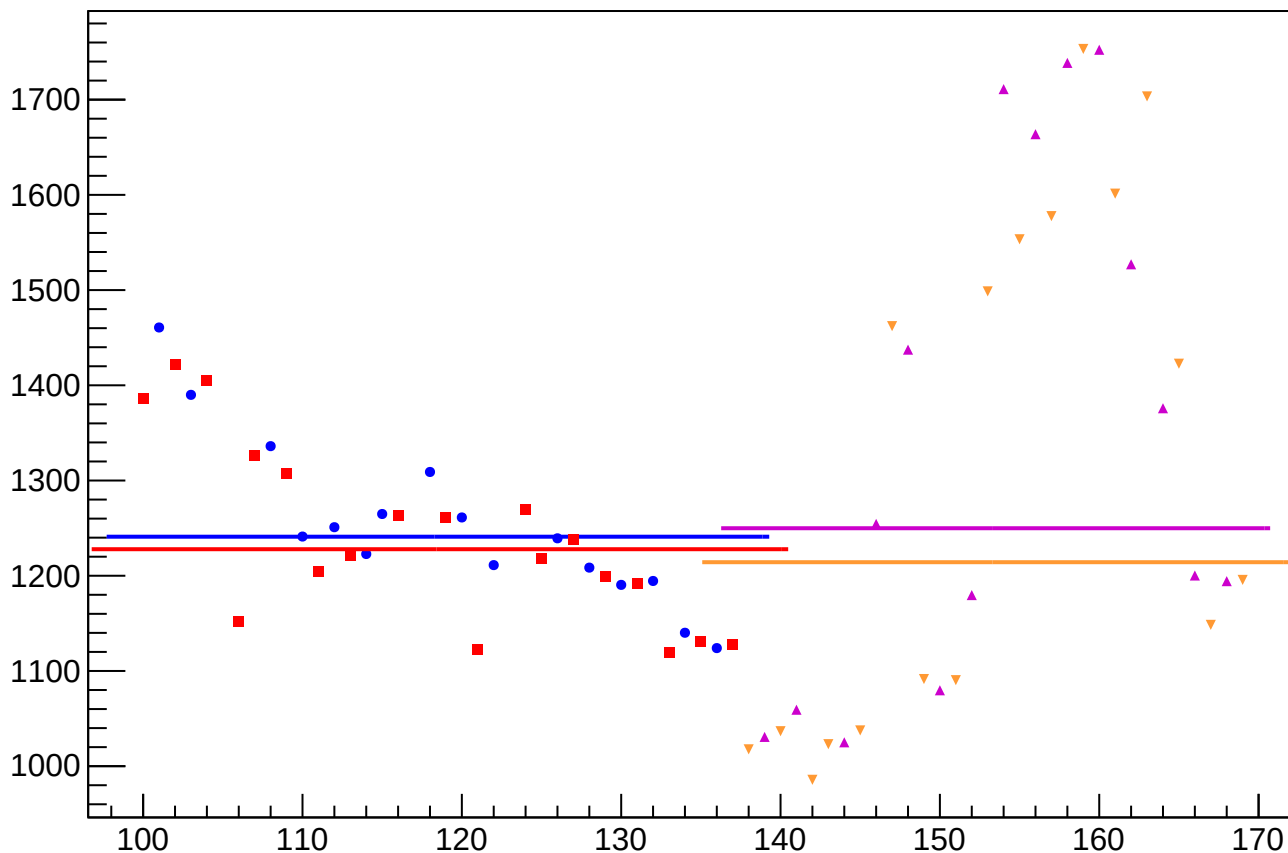
Right: -6.537 ± 0.322 χ^2/NDF : 716.4/34

In: -2.245 ± 0.286 χ^2/NDF : 629.0/30

Out: -1.596 ± 0.271 χ^2/NDF : 464.0/35

All: -1.903 ± 0.197 χ^2/NDF : 1095.8/66

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1241.007 $\pm$ 0.327 χ^2 /NDF: 80653.5/15

Left Out: 1214.223 $\pm$ 0.240 χ^2 /NDF:991447.0/16

Right Out: 1227.864 $\pm$ 0.318 χ^2 /NDF: 82339.2/18

Left In: 1249.895 $\pm$ 0.257 χ^2 /NDF:862601.3/14

Left: 1230.842 $\pm$ 0.175 χ^2 /NDF: 1864332.6/31

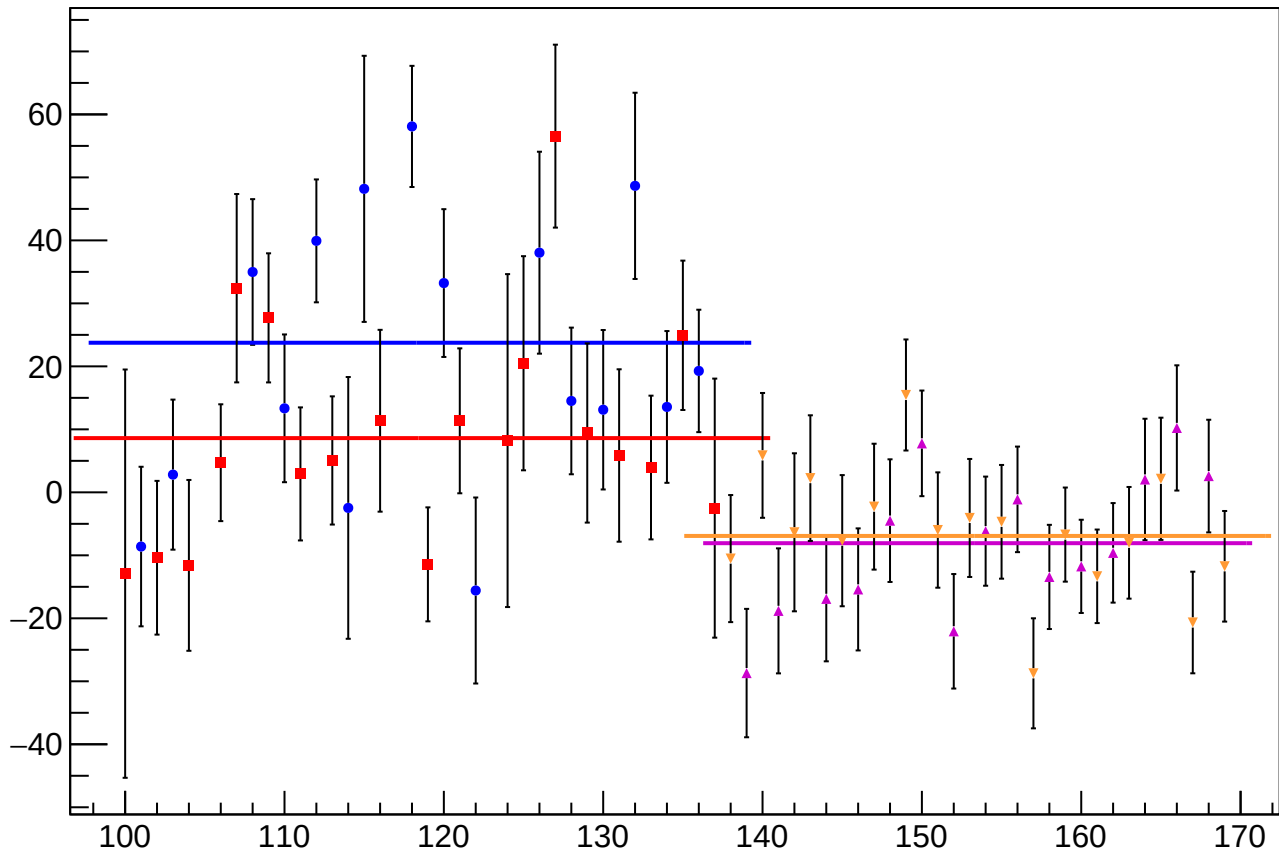
Right: 1234.245 $\pm$ 0.228 χ^2 /NDF: 163824.2/34

In: 1246.499 $\pm$ 0.202 χ^2 /NDF:943711.5/30

Out: 1219.183 $\pm$ 0.192 χ^2 /NDF:1074960.0/35

All: 1232.109 $\pm$ 0.139 χ^2 /NDF: 2028296.8/66

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 23.750 ± 3.081 $\chi^2/\text{NDF}: 43.4/15$

Left Out: -6.922 ± 2.209 $\chi^2/\text{NDF}: 20.5/16$

Right Out: 8.609 ± 2.899 $\chi^2/\text{NDF}: 30.5/18$

Left In: -8.073 ± 2.311 $\chi^2/\text{NDF}: 20.1/14$

Left: -7.472 ± 1.597 $\chi^2/\text{NDF}: 40.7/31$

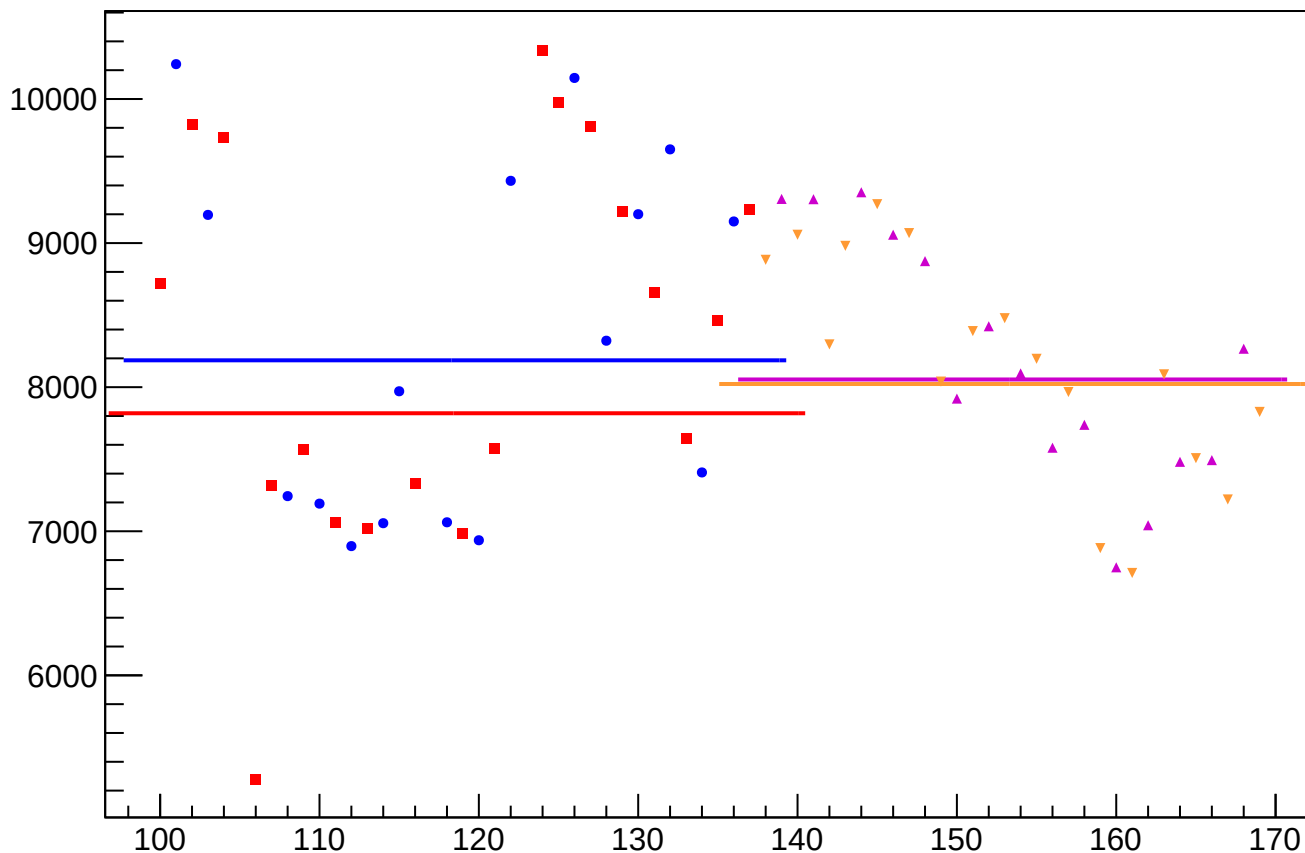
Right: 15.718 ± 2.111 $\chi^2/\text{NDF}: 86.7/34$

In: 3.380 ± 1.849 $\chi^2/\text{NDF}: 131.8/30$

Out: -1.217 ± 1.757 $\chi^2/\text{NDF}: 69.2/35$

All: 0.964 ± 1.274 $\chi^2/\text{NDF}: 204.2/66$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 8186.361 $\pm$ 2.179 χ^2 /NDF: 290628.8/15

Left Out: 8021.958 $\pm$ 1.562 χ^2 /NDF: 250718.8/16

Right Out: 7818.965 $\pm$ 2.050 χ^2 /NDF: 422998.1/18

Left In: 8053.432 $\pm$ 1.634 χ^2 /NDF: 254579.8/14

Left: 8036.987 $\pm$ 1.129 χ^2 /NDF: 505492.5/31

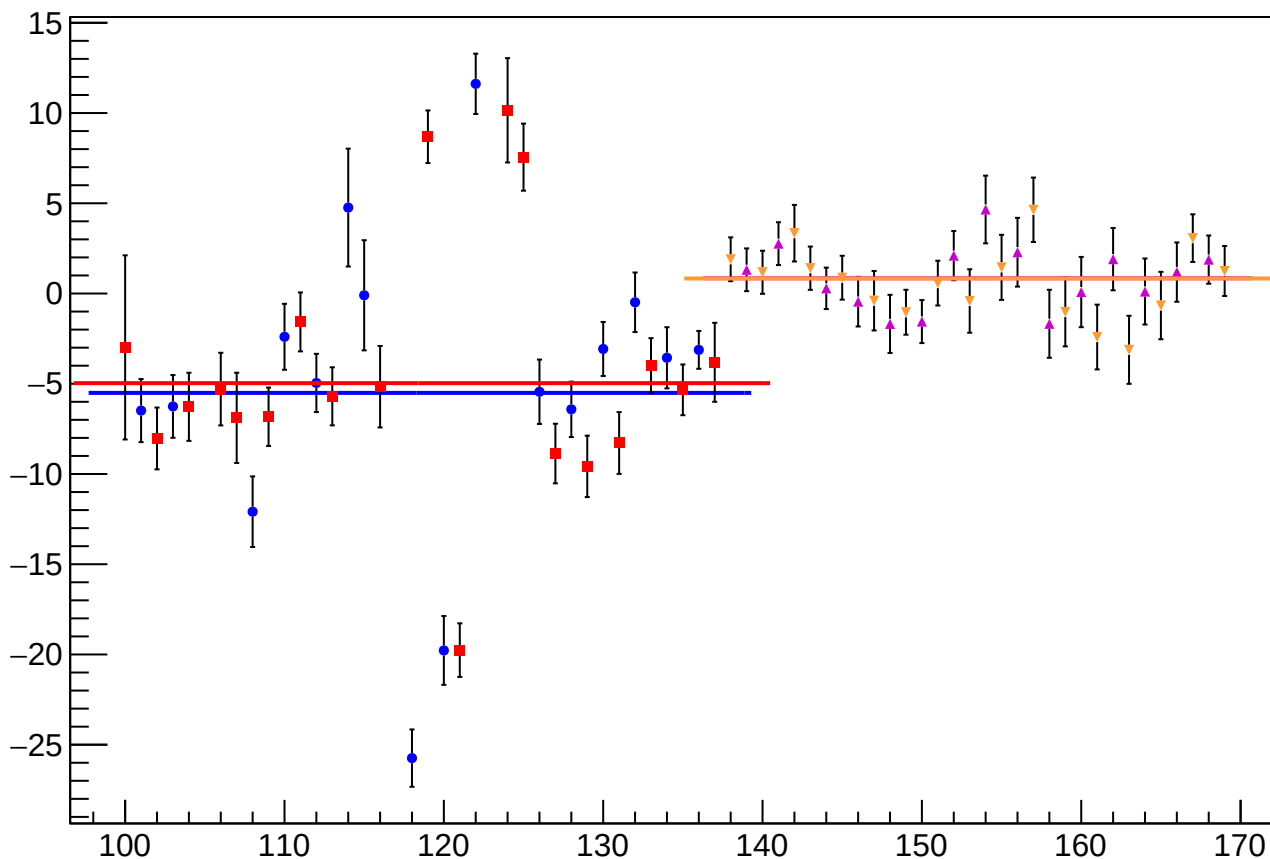
Right: 7991.468 $\pm$ 1.493 χ^2 /NDF: 728709.0/34

In: 8101.272 $\pm$ 1.307 χ^2 /NDF: 547591.0/30

Out: 7947.396 $\pm$ 1.242 χ^2 /NDF: 679921.0/35

All: 8020.428 $\pm$ 0.901 χ^2 /NDF: 1234792.9/66

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.506 ± 0.421 χ^2/NDF : 369.8/15

Left Out: 0.833 ± 0.353 χ^2/NDF : 23.9/16

Right Out: -4.967 ± 0.410 χ^2/NDF : 287.3/18

Left In: 0.846 ± 0.378 χ^2/NDF : 19.1/14

Left: 0.839 ± 0.258 χ^2/NDF : 43.0/31

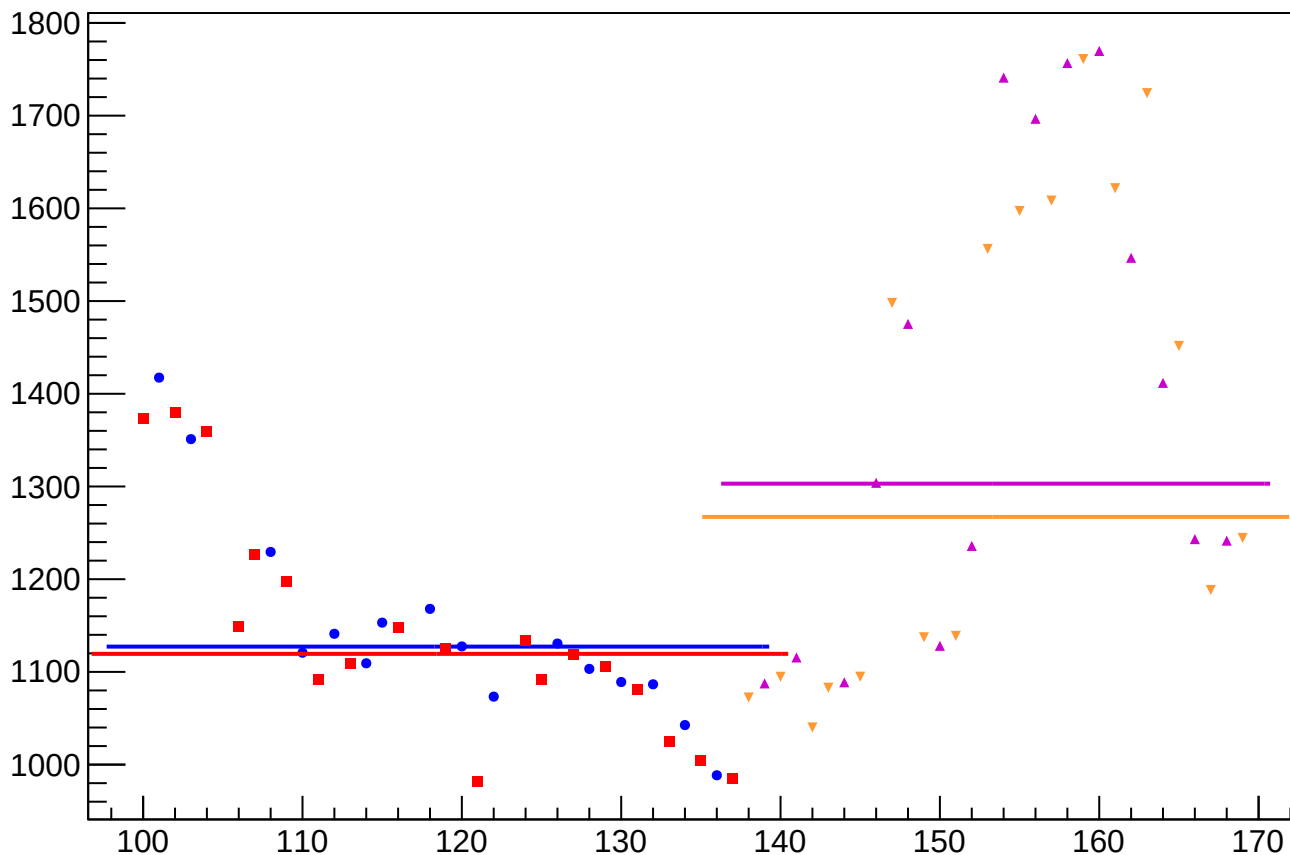
Right: -5.230 ± 0.294 χ^2/NDF : 657.9/34

In: -1.987 ± 0.281 χ^2/NDF : 515.1/30

Out: -1.635 ± 0.268 χ^2/NDF : 426.0/35

All: -1.802 ± 0.194 χ^2/NDF : 941.9/66

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1127.290 ± 0.298 χ^2/NDF : 140615.8/15

Left Out: 1267.171 ± 0.250 χ^2/NDF : 856536.4/16

Right Out: 1119.473 ± 0.290 χ^2/NDF : 140736.0/18

Left In: 1303.041 ± 0.267 χ^2/NDF : 736002.9/14

Left: 1283.903 ± 0.182 χ^2/NDF : 1602165.6/31

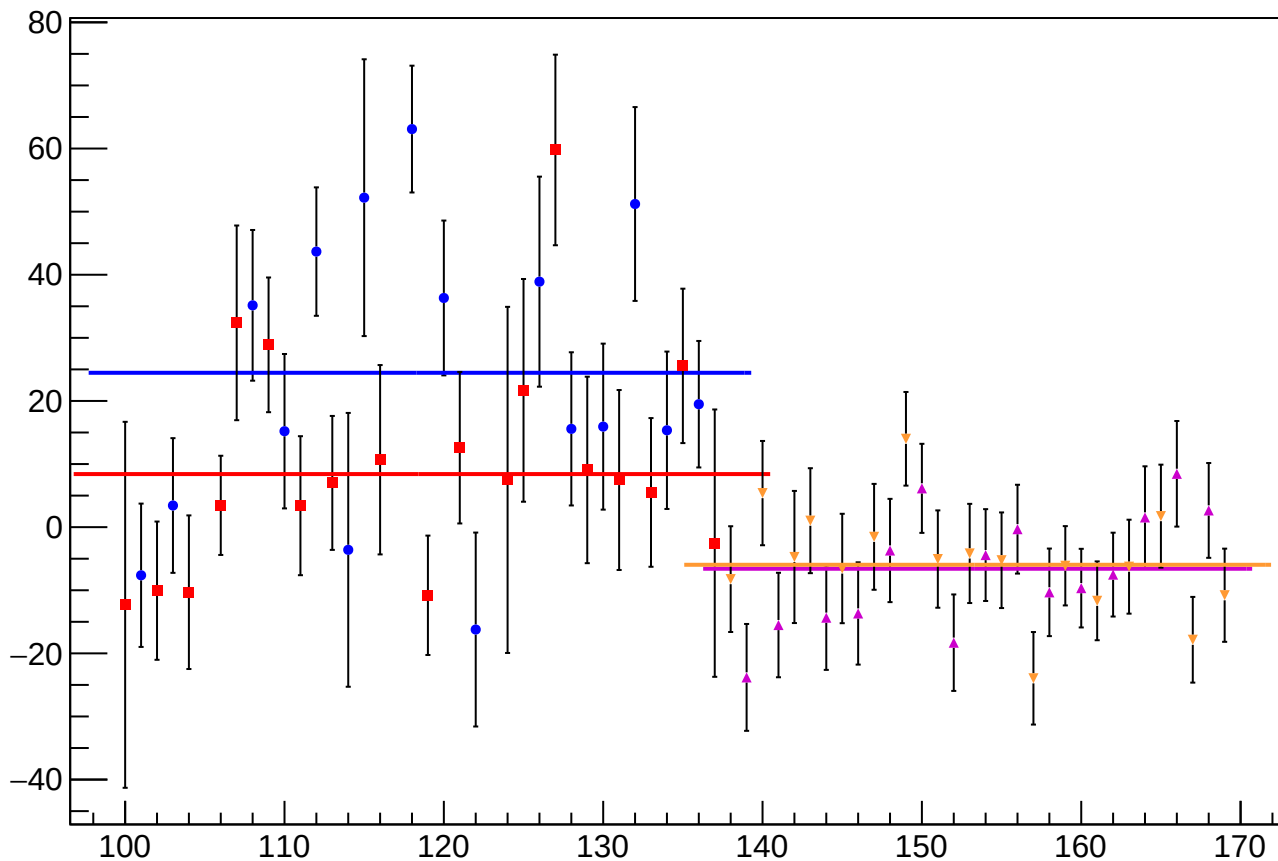
Right: 1123.282 ± 0.208 χ^2/NDF : 281705.5/34

In: 1224.651 ± 0.199 χ^2/NDF : 1069819.3/30

Out: 1204.328 ± 0.189 χ^2/NDF : 1146138.9/35

All: 1213.993 ± 0.137 χ^2/NDF : 2221441.1/66

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: 24.463 $\pm$ 3.136 χ^2/NDF : 48.3/15

Left Out: -5.962 $\pm$ 1.853 χ^2/NDF : 21.5/16

Right Out: 8.413 $\pm$ 2.891 χ^2/NDF : 31.1/18

Left In: -6.592 $\pm$ 1.939 χ^2/NDF : 19.9/14

Left: -6.263 $\pm$ 1.340 χ^2/NDF : 41.4/31

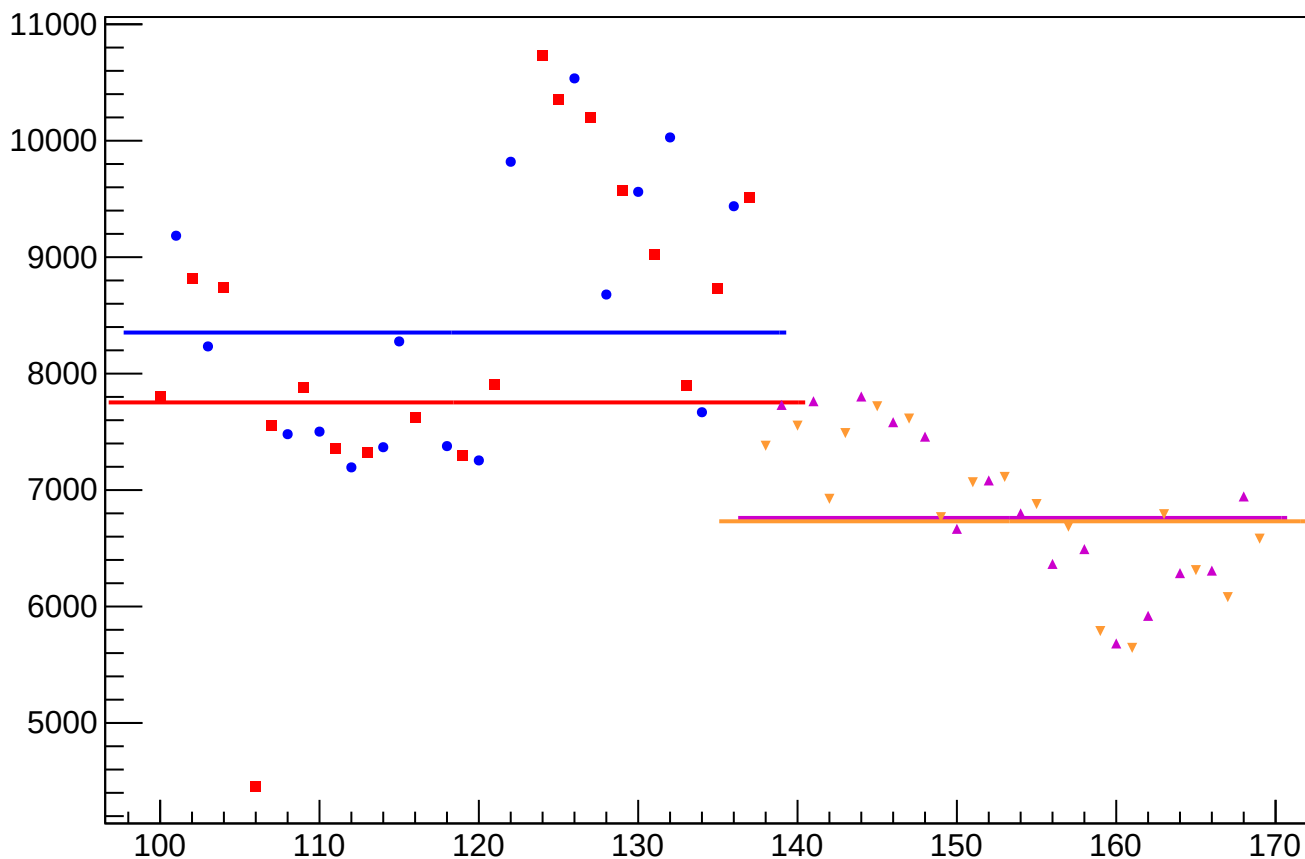
Right: 15.786 $\pm$ 2.126 χ^2/NDF : 93.6/34

In: 1.995 $\pm$ 1.649 χ^2/NDF : 139.1/30

Out: -1.776 $\pm$ 1.560 χ^2/NDF : 70.2/35

All: 0.005 $\pm$ 1.133 χ^2/NDF : 212.1/66

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 8352.758 $\pm$ 2.218 χ^2 /NDF: 220412.5/15

Left Out: 6731.876 $\pm$ 1.310 χ^2 /NDF: 236664.6/16

Right Out: 7752.674 $\pm$ 2.044 χ^2 /NDF: 588072.1/18

Left In: 6760.615 $\pm$ 1.371 χ^2 /NDF: 241506.1/14

Left: 6745.595 $\pm$ 0.947 χ^2 /NDF: 478400.4/31

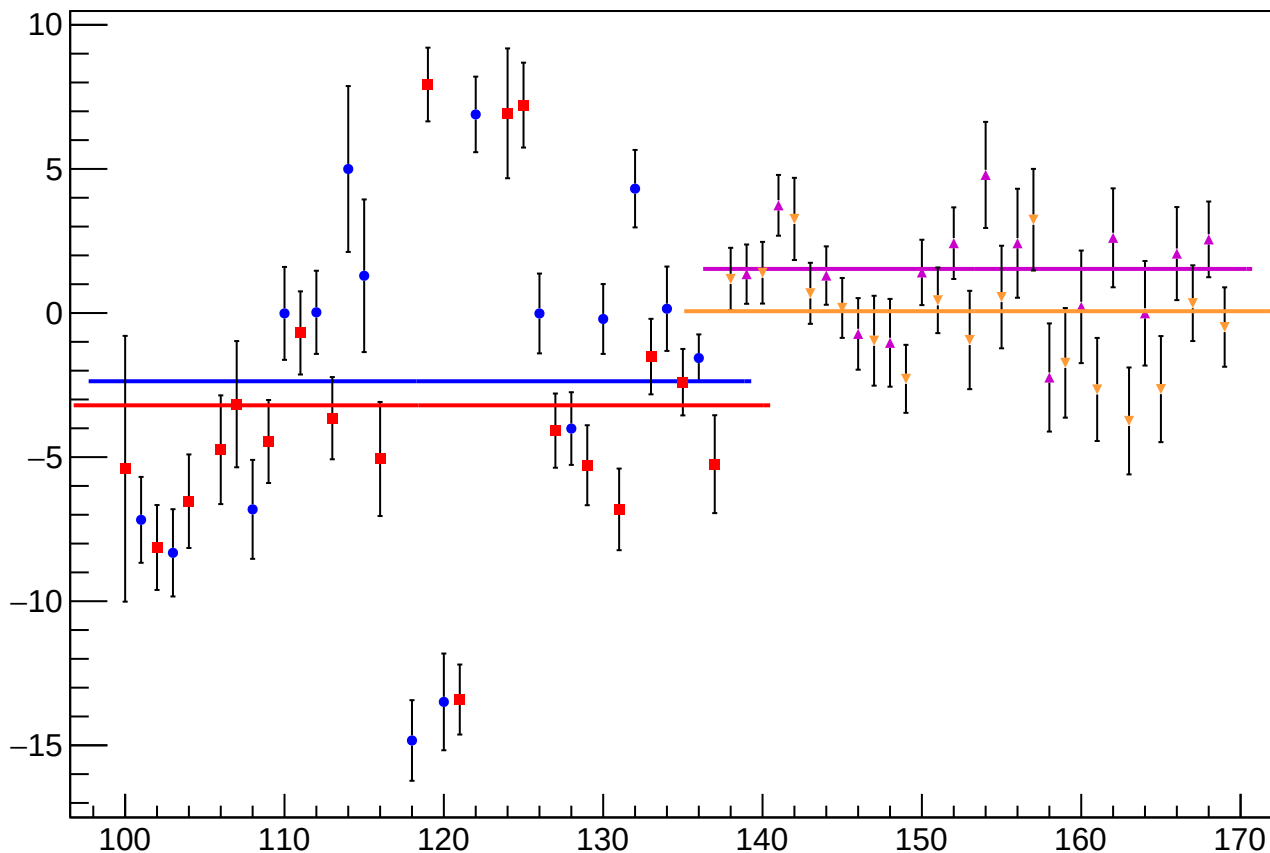
Right: 8028.343 $\pm$ 1.503 χ^2 /NDF: 848071.5/34

In: 7200.888 $\pm$ 1.166 χ^2 /NDF: 834845.4/30

Out: 7029.138 $\pm$ 1.103 χ^2 /NDF: 1001482.5/35

All: 7110.247 $\pm$ 0.801 χ^2 /NDF: 1847775.6/66

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.368 ± 0.350 $\chi^2/\text{NDF}: 255.6/15$

Left Out: 0.063 ± 0.330 $\chi^2/\text{NDF}: 26.0/16$

Right Out: -3.203 ± 0.346 $\chi^2/\text{NDF}: 250.5/18$

Left In: 1.531 ± 0.352 $\chi^2/\text{NDF}: 20.8/14$

Left: 0.748 ± 0.241 $\chi^2/\text{NDF}: 56.0/31$

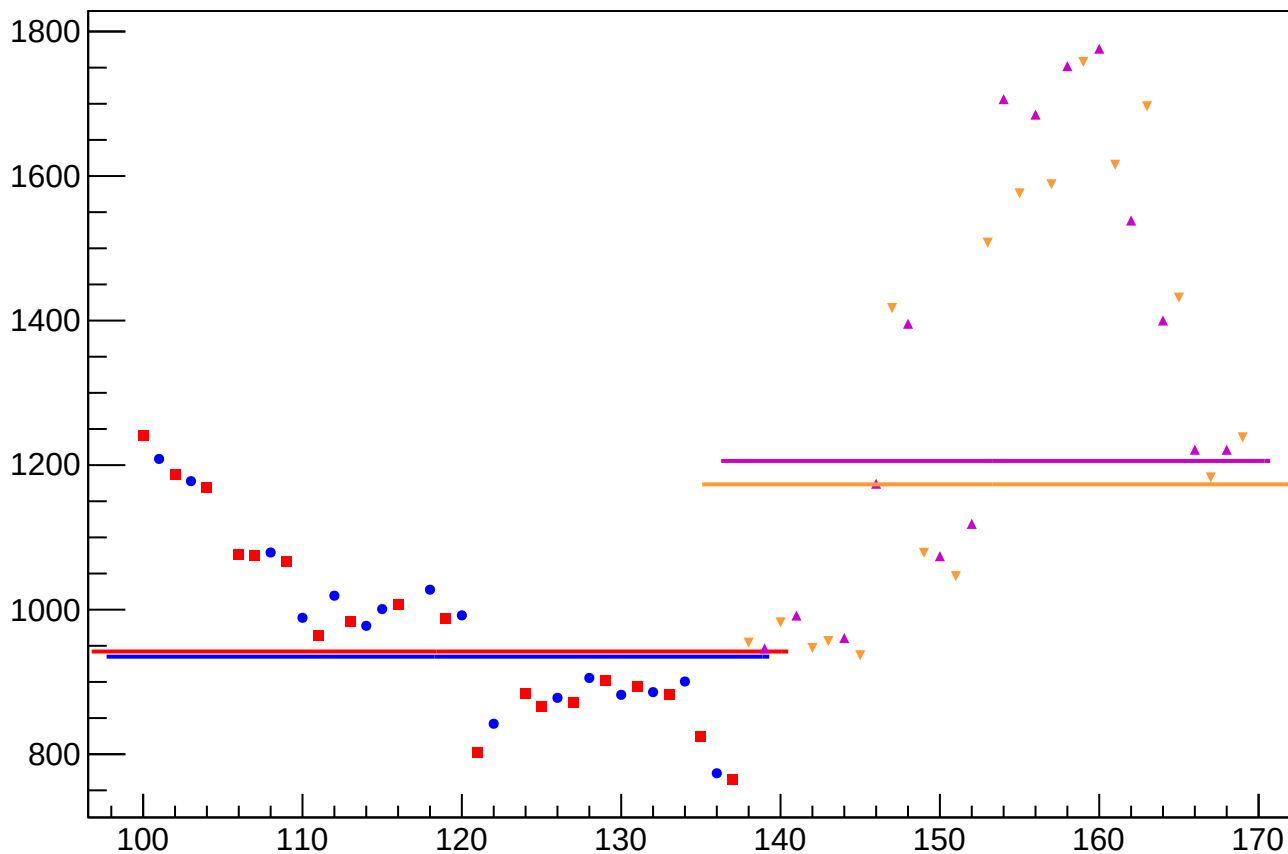
Right: -2.790 ± 0.246 $\chi^2/\text{NDF}: 509.0/34$

In: -0.429 ± 0.249 $\chi^2/\text{NDF}: 337.9/30$

Out: -1.489 ± 0.239 $\chi^2/\text{NDF}: 323.1/35$

All: -0.980 ± 0.172 $\chi^2/\text{NDF}: 670.5/66$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 934.975 $\pm$ 0.248 χ^2 /NDF: 254363.7/15

Left Out: 1173.371 $\pm$ 0.233 χ^2 /NDF:1274802.6/16

Right Out: 942.096 $\pm$ 0.245 χ^2 /NDF: 232453.5/18

Left In: 1205.769 $\pm$ 0.249 χ^2 /NDF:1110795.5/14

Left: 1188.491 $\pm$ 0.170 χ^2 /NDF: 2394611.7/31

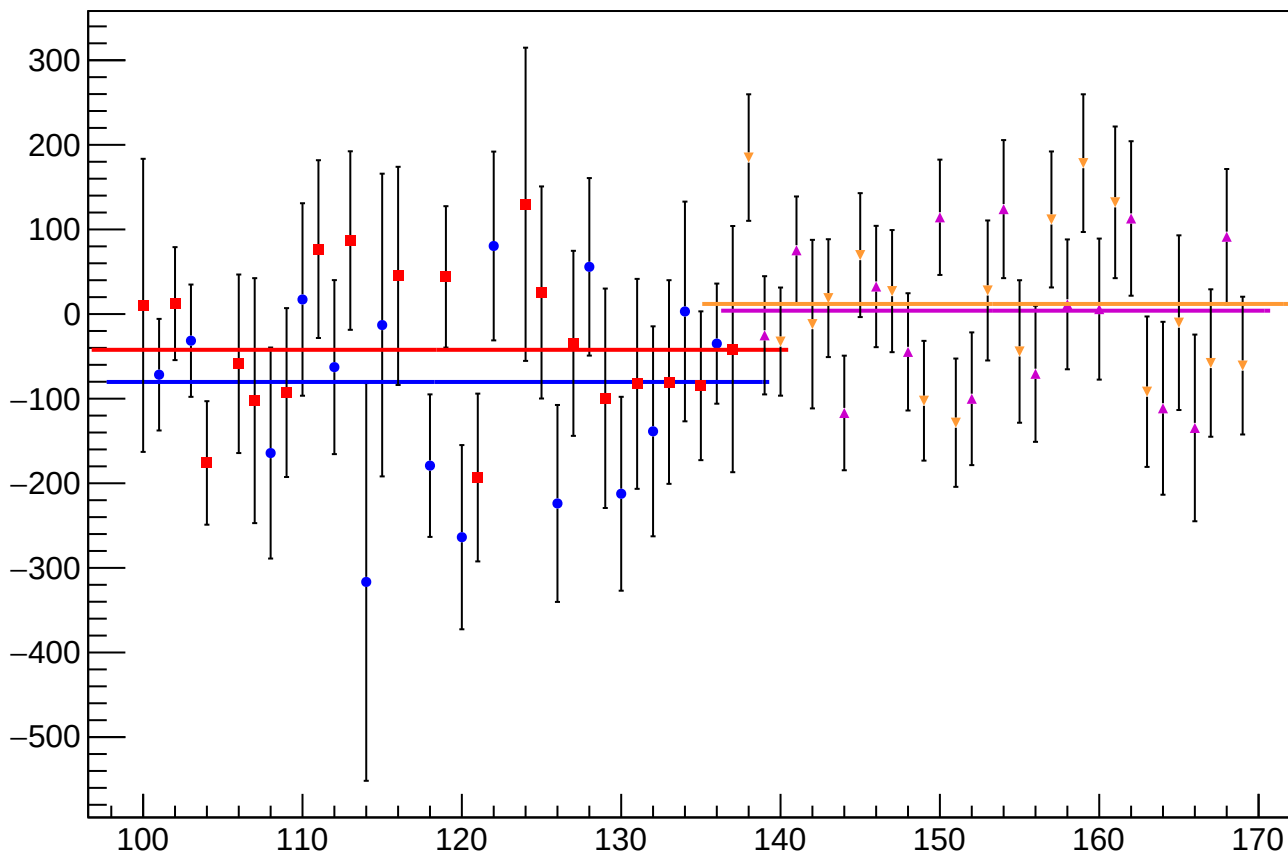
Right: 938.577 $\pm$ 0.174 χ^2 /NDF: 487235.0/34

In: 1069.609 $\pm$ 0.176 χ^2 /NDF:1958863.6/30

Out: 1063.437 $\pm$ 0.169 χ^2 /NDF:1975091.2/35

All: 1066.400 $\pm$ 0.122 χ^2 /NDF: 3934596.3/66

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -80.250 $\pm$ 24.909 χ^2/NDF : 14.8/15

Left Out: 11.959 $\pm$ 19.234 χ^2/NDF : 23.5/16

Right Out: -42.263 $\pm$ 24.144 χ^2/NDF : 13.0/18

Left In: 3.981 $\pm$ 19.907 χ^2/NDF : 18.2/14

Left: 8.107 $\pm$ 13.832 χ^2/NDF : 41.7/31

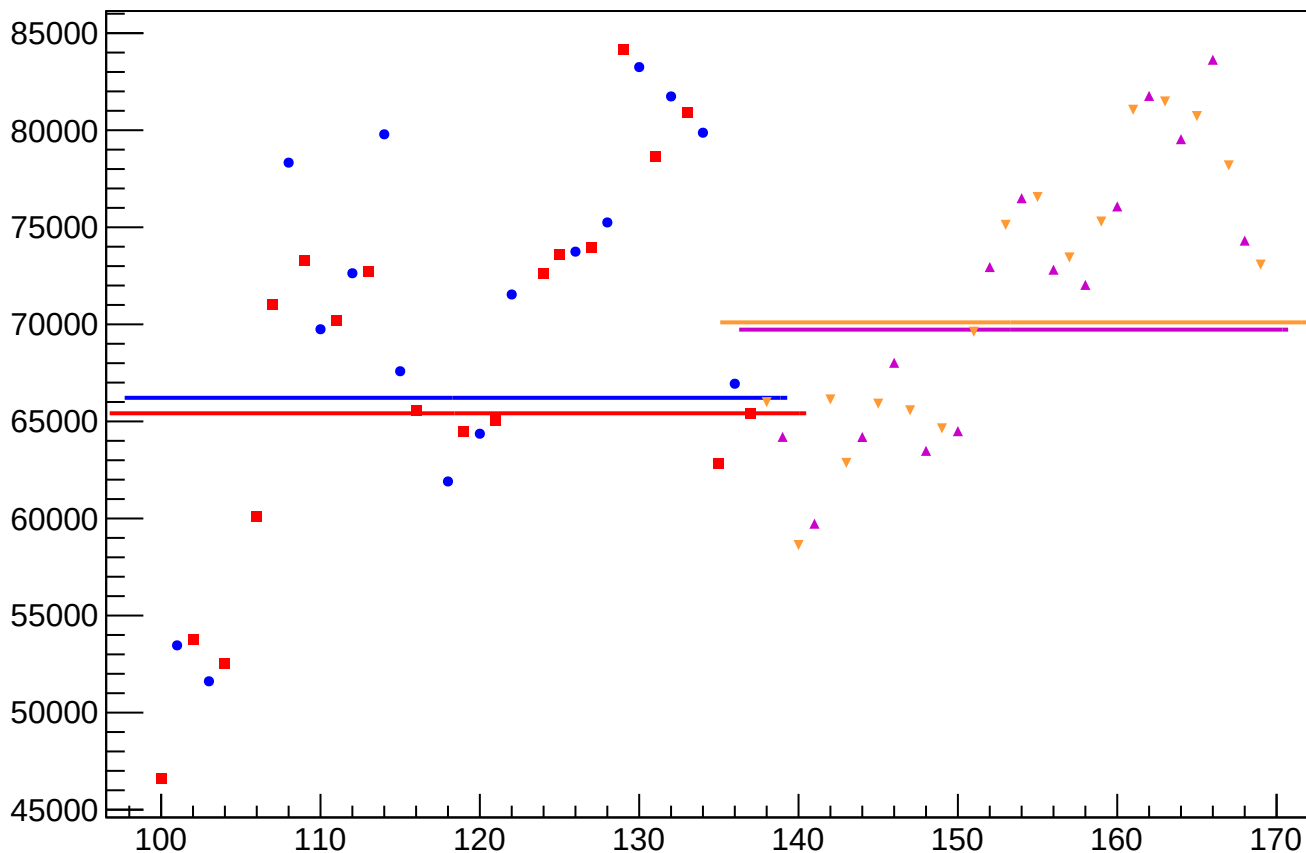
Right: -60.665 $\pm$ 17.337 χ^2/NDF : 29.0/34

In: -28.849 $\pm$ 15.551 χ^2/NDF : 39.9/30

Out: -9.093 $\pm$ 15.044 χ^2/NDF : 39.5/35

All: -18.644 $\pm$ 10.813 χ^2/NDF : 80.3/66

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 66216.115+/-17.613 χ^2/NDF : 338377.6/15

Left Out: 70101.825+/-13.601 χ^2/NDF : 256086.3/16

Right Out: 65418.529+/-17.073 χ^2/NDF : 304555.9/18

Left In: 69727.218+/-14.076 χ^2/NDF : 229454.3/14

Left: 69920.954+/-9.781 χ^2/NDF : 485906.9/31

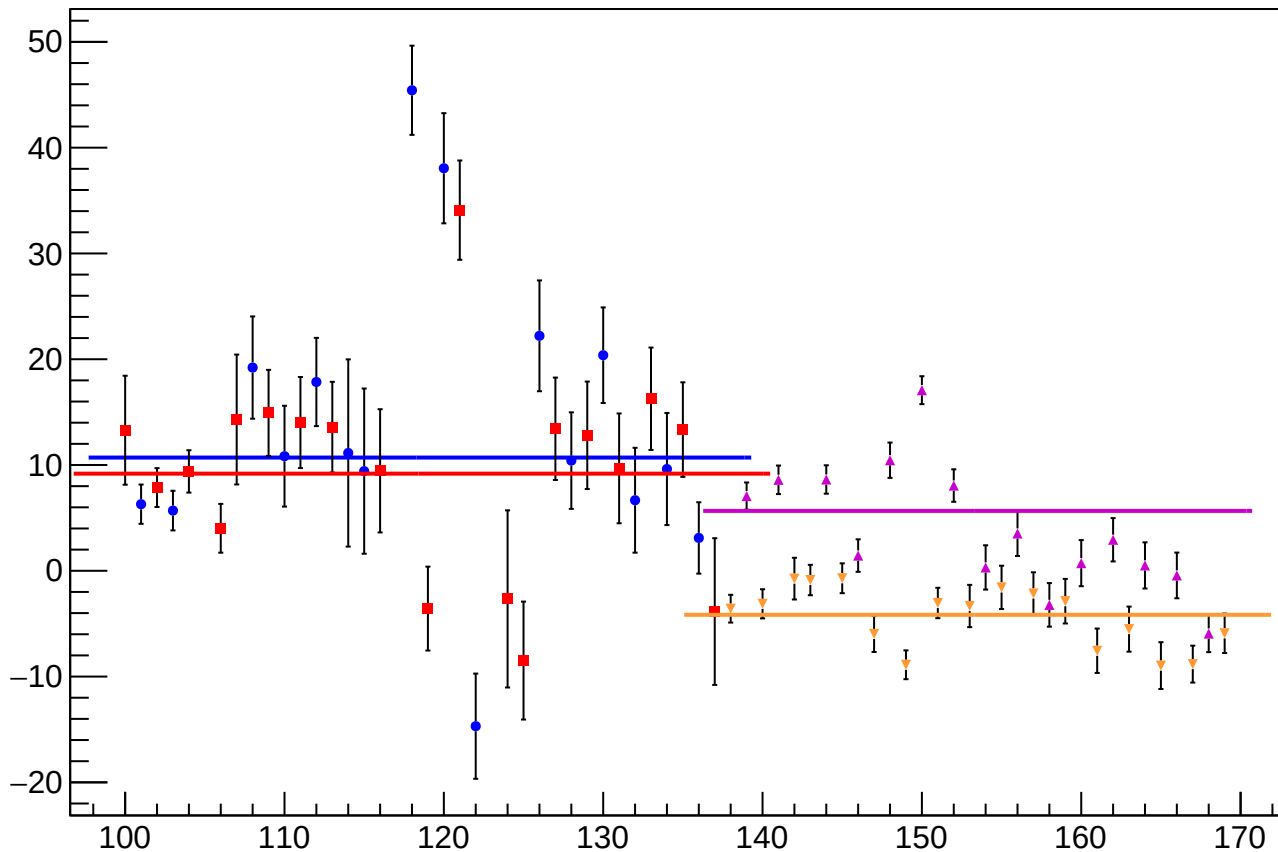
Right: 65804.895+/-12.259 χ^2/NDF : 643990.8/34

In: 68358.740+/-10.996 χ^2/NDF : 592081.7/30

Out: 68283.569+/-10.638 χ^2/NDF : 606676.0/35

All: 68319.911+/-7.646 χ^2/NDF : 1198781.8/66

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: 10.705 ± 0.921 $\chi^2/\text{NDF}: 155.6/15$

Left Out: -4.161 ± 0.410 $\chi^2/\text{NDF}: 47.7/16$

Right Out: 9.182 ± 0.850 $\chi^2/\text{NDF}: 69.6/18$

Left In: 5.660 ± 0.432 $\chi^2/\text{NDF}: 194.0/14$

Left: 0.498 ± 0.297 $\chi^2/\text{NDF}: 514.0/31$

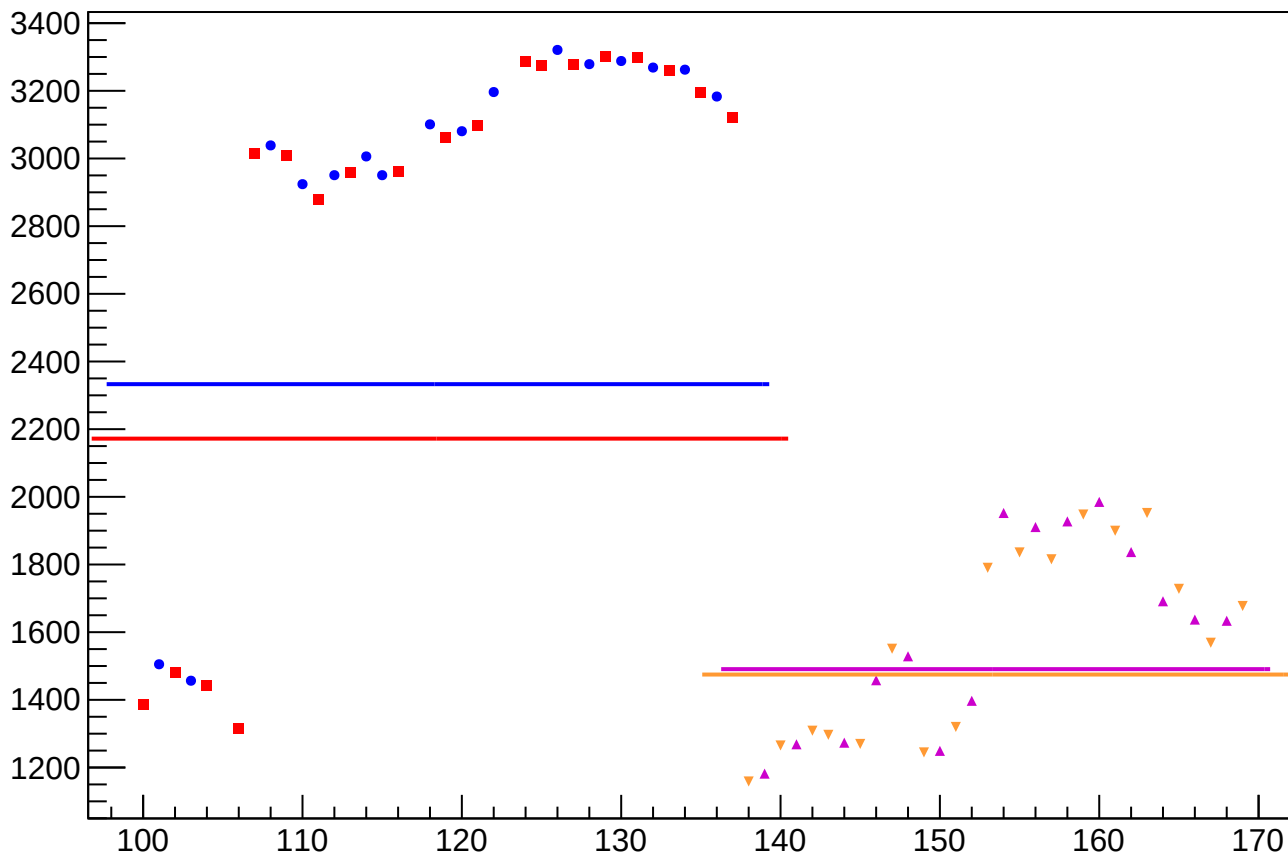
Right: 9.883 ± 0.625 $\chi^2/\text{NDF}: 226.6/34$

In: 6.569 ± 0.391 $\chi^2/\text{NDF}: 374.2/30$

Out: -1.644 ± 0.369 $\chi^2/\text{NDF}: 317.2/35$

All: 2.231 ± 0.268 $\chi^2/\text{NDF}: 924.7/66$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 2333.021 +/- 0.651 χ^2/NDF : 1651407.8/15

Left Out: 1474.774 +/- 0.290 χ^2/NDF : 842586.0/16

Right Out: 2172.041 +/- 0.601 χ^2/NDF : 1984197.6/18

Left In: 1490.776 +/- 0.305 χ^2/NDF : 762680.3/14

Left: 1482.366 +/- 0.210 χ^2/NDF : 1606712.0/31

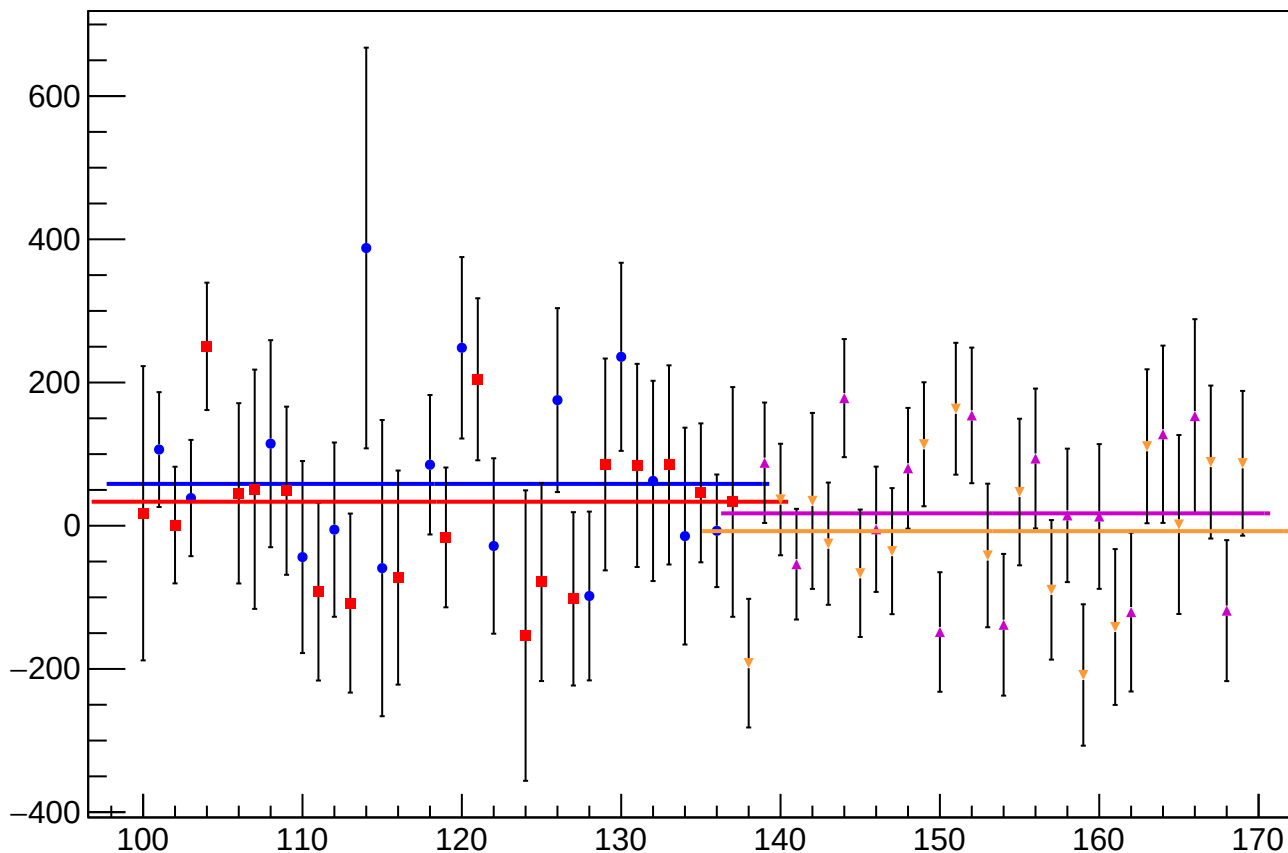
Right: 2246.139 +/- 0.442 χ^2/NDF : 3668614.7/34

In: 1642.497 +/- 0.276 χ^2/NDF : 3786714.4/30

Out: 1606.329 +/- 0.261 χ^2/NDF : 3918348.7/35

All: 1623.394 +/- 0.190 χ^2/NDF : 7714115.5/60

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 58.446 $\pm$ 28.918 χ^2 /NDF: 11.3/15

Left Out: -7.544 $\pm$ 23.425 χ^2 /NDF:20.3/16

Right Out: 33.520 $\pm$ 28.106 χ^2 /NDF: 14.7/18

Left In: 17.287 $\pm$ 24.205 χ^2 /NDF:20.4/14

Left: 4.465 $\pm$ 16.833 χ^2 /NDF: 41.2/31

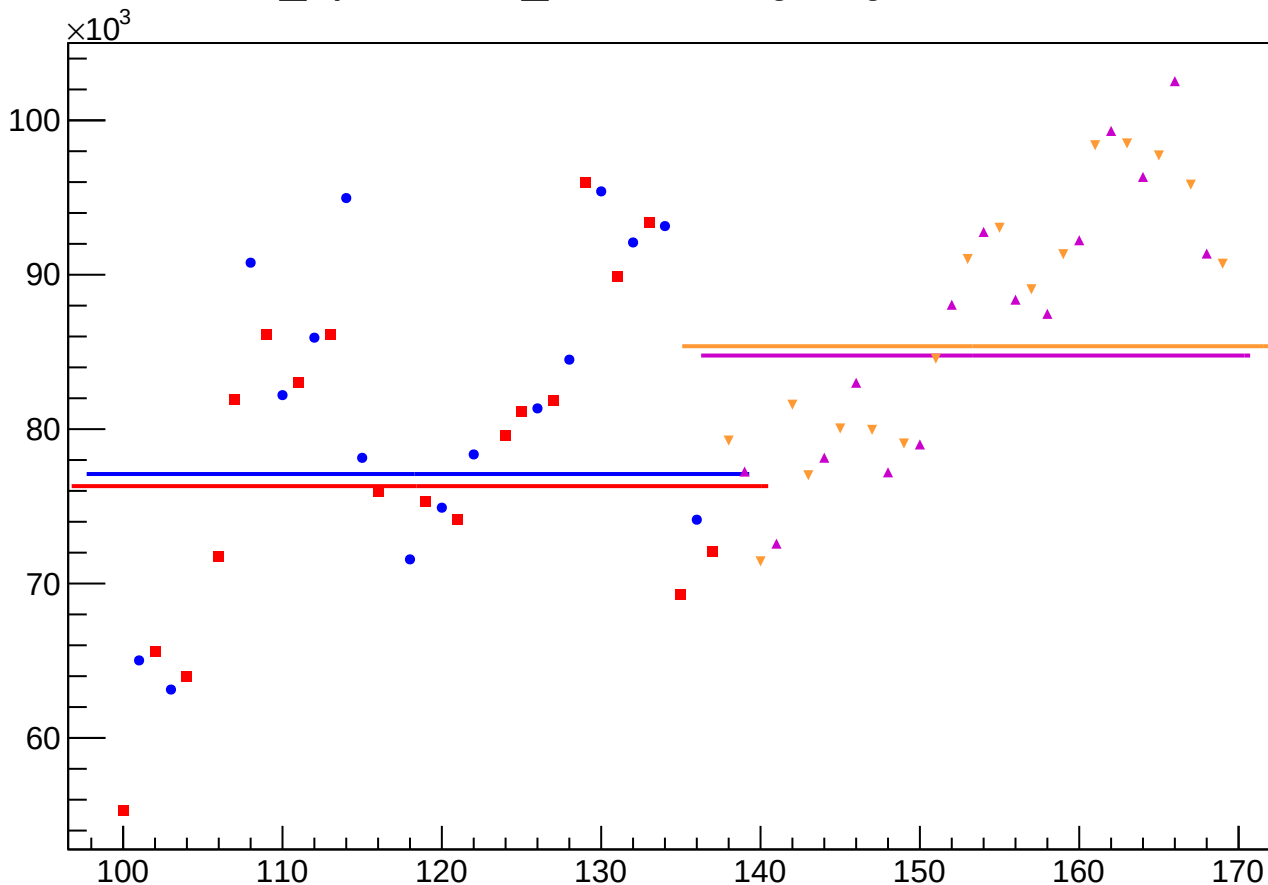
Right: 45.628 $\pm$ 20.155 χ^2 /NDF: 26.4/34

In: 34.243 $\pm$ 18.561 χ^2 /NDF:32.9/30

Out: 9.289 $\pm$ 17.994 χ^2 /NDF:36.2/35

All: 21.379 $\pm$ 12.920 χ^2 /NDF: 70.0/66

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 77093.125 $\pm$ 20.448 χ^2/NDF : 248542.7/15

Left Out: 85370.405 $\pm$ 16.564 χ^2/NDF : 250374.3/16

Right Out: 76308.708 $\pm$ 19.874 χ^2/NDF : 234433.2/18

Left In: 84766.963 $\pm$ 17.115 χ^2/NDF : 231223.4/14

Left: 85078.566 $\pm$ 11.903 χ^2/NDF : 482239.6/31

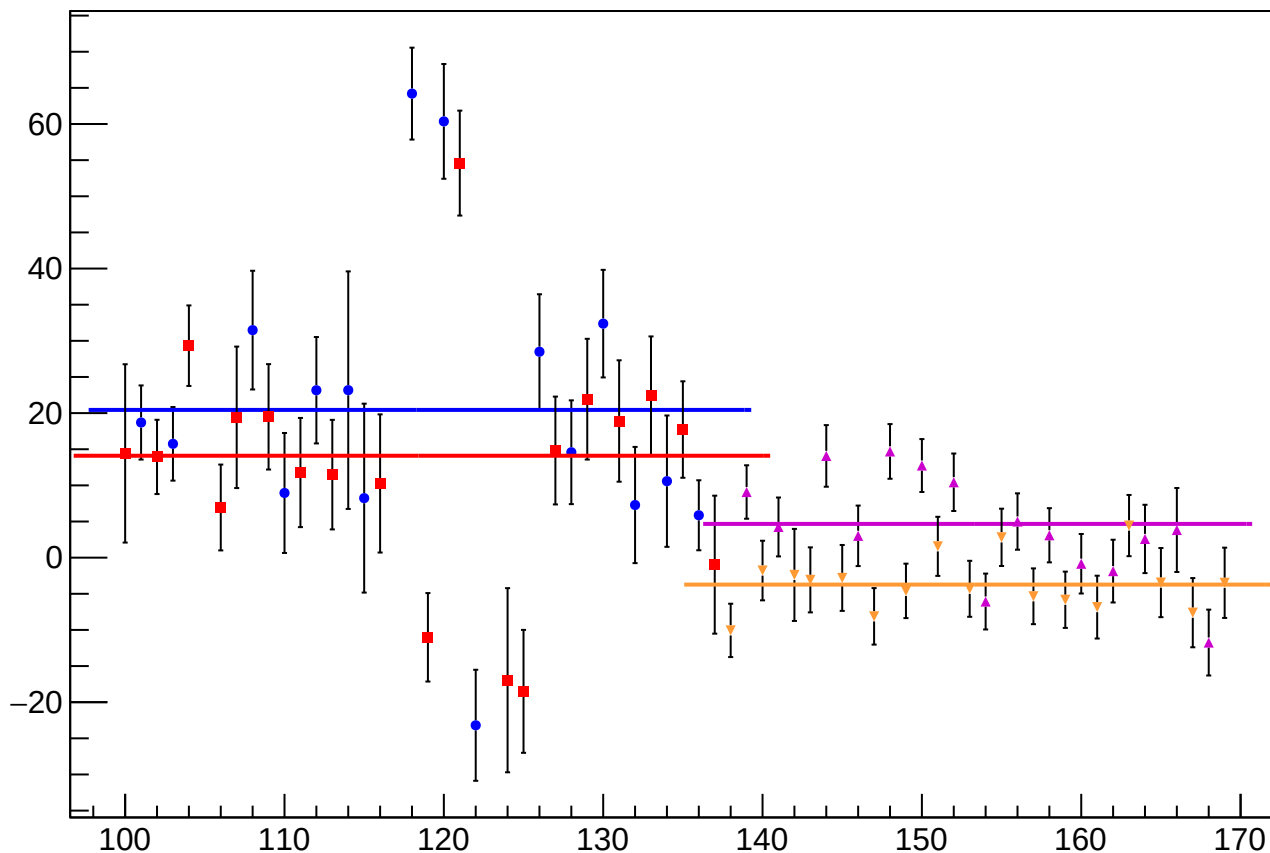
Right: 76689.749 $\pm$ 14.251 χ^2/NDF : 483732.7/34

In: 81605.520 $\pm$ 13.125 χ^2/NDF : 562584.2/30

Out: 81655.978 $\pm$ 12.724 χ^2/NDF : 607491.1/35

All: 81631.531 $\pm$ 9.135 χ^2/NDF : 1170082.9/69

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 20.441 $\pm$ 1.782 χ^2 /NDF: 127.8/15

Left Out: -3.728 $\pm$ 1.025 χ^2 /NDF:14.4/16

Right Out: 14.102 $\pm$ 1.714 χ^2 /NDF: 83.8/18

Left In: 4.669 $\pm$ 1.059 χ^2 /NDF:45.6/14

Left: 0.333 $\pm$ 0.737 χ^2 /NDF: 92.4/31

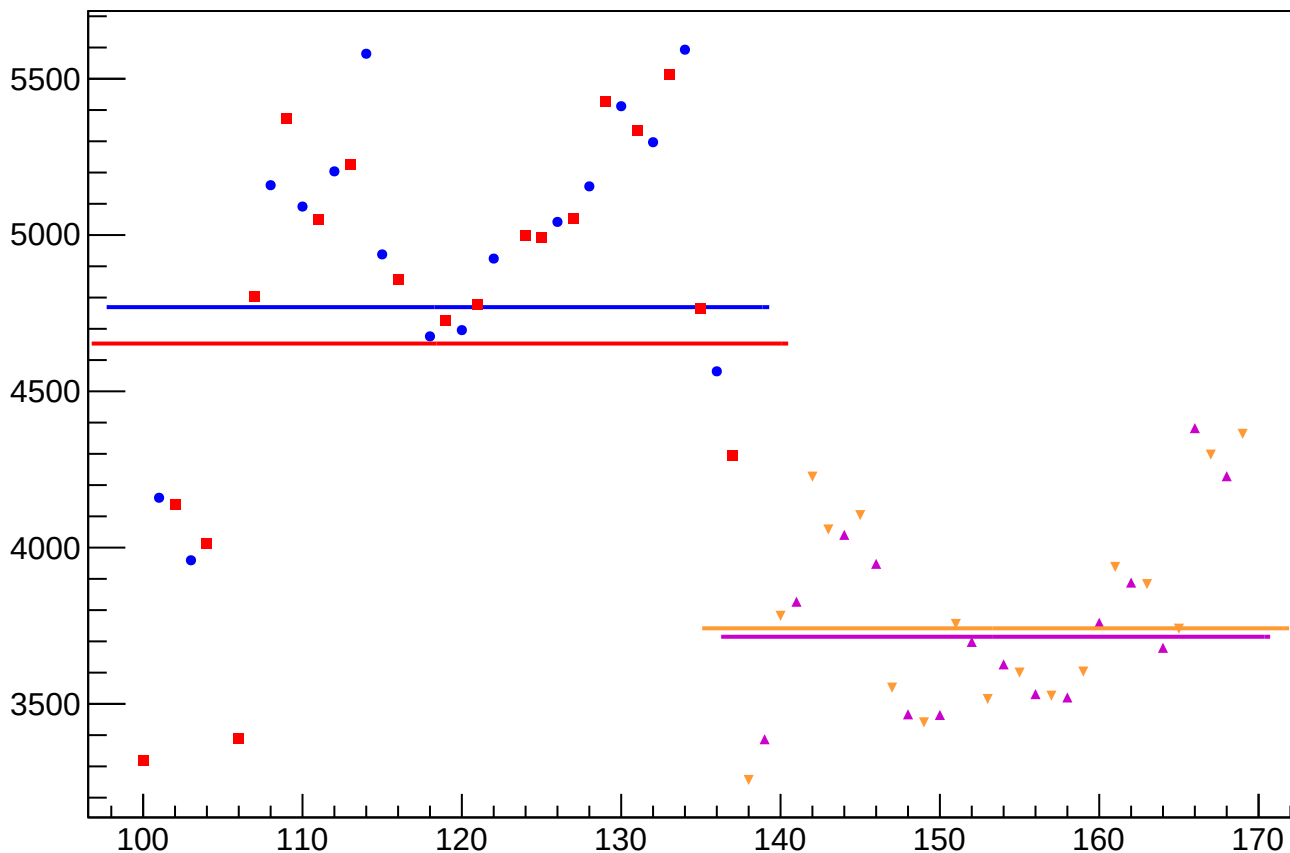
Right: 17.148 $\pm$ 1.235 χ^2 /NDF: 218.2/34

In: 8.787 $\pm$ 0.910 χ^2 /NDF:231.3/30

Out: 0.971 $\pm$ 0.880 χ^2 /NDF:177.9/35

All: 4.744 $\pm$ 0.633 χ^2 /NDF: 447.3/66

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 4769.375 $\pm$ 1.260 χ^2 /NDF: 151678.3/15

Left Out: 3741.790 $\pm$ 0.725 χ^2 /NDF:170553.8/16

Right Out: 4652.924 $\pm$ 1.212 χ^2 /NDF: 265116.1/18

Left In: 3714.762 $\pm$ 0.749 χ^2 /NDF:119286.3/14

Left: 3728.719 $\pm$ 0.521 χ^2 /NDF: 290512.7/31

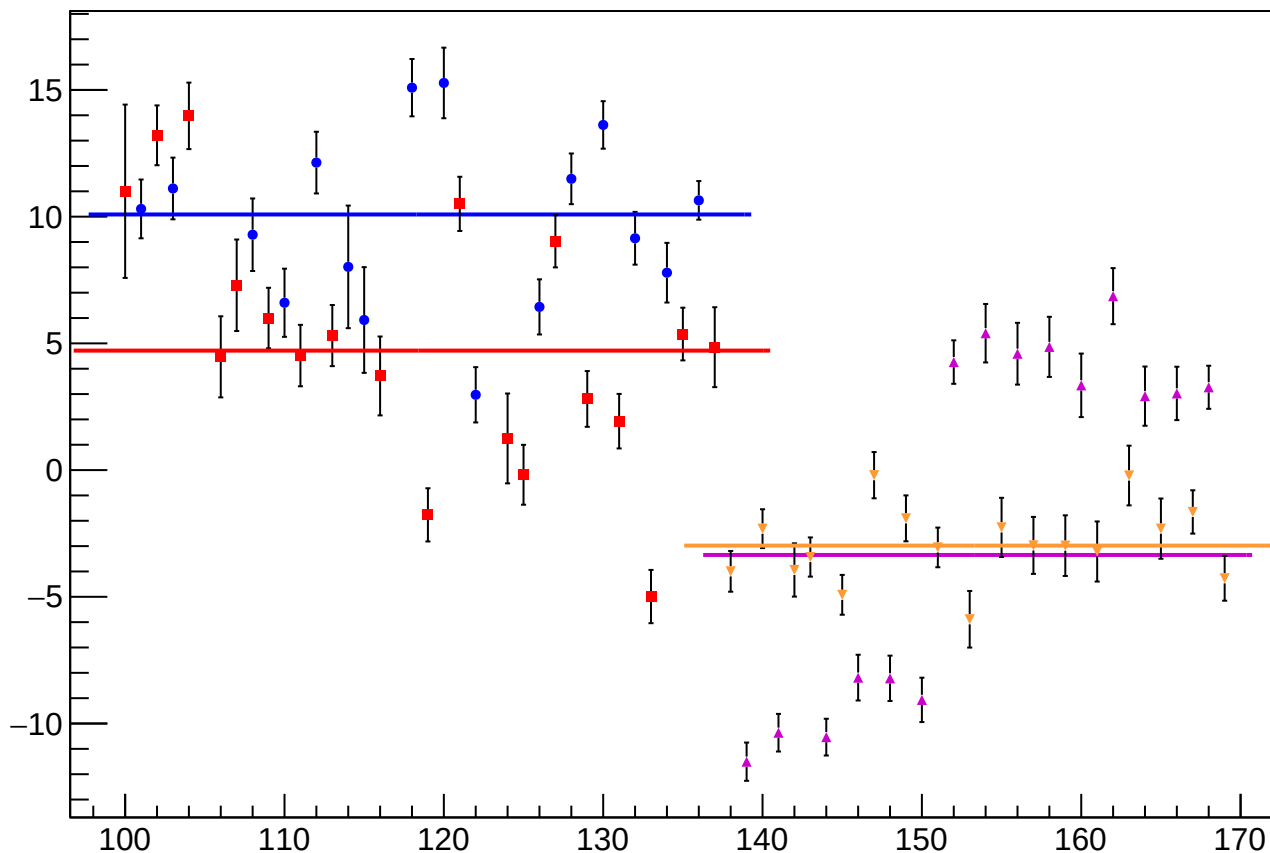
Right: 4708.872 $\pm$ 0.873 χ^2 /NDF: 421232.0/34

In: 3990.068 $\pm$ 0.644 χ^2 /NDF:788614.0/30

Out: 3981.874 $\pm$ 0.622 χ^2 /NDF:852116.6/35

All: 3985.830 $\pm$ 0.447 χ^2 /NDF: 1640814.4/66

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 10.086 ± 0.288 $\chi^2/\text{NDF}: 123.9/15$

Left Out: -2.979 ± 0.228 $\chi^2/\text{NDF}: 37.9/16$

Right Out: 4.715 ± 0.286 $\chi^2/\text{NDF}: 310.2/18$

Left In: -3.349 ± 0.241 $\chi^2/\text{NDF}: 871.7/14$

Left: -3.154 ± 0.165 $\chi^2/\text{NDF}: 910.9/31$

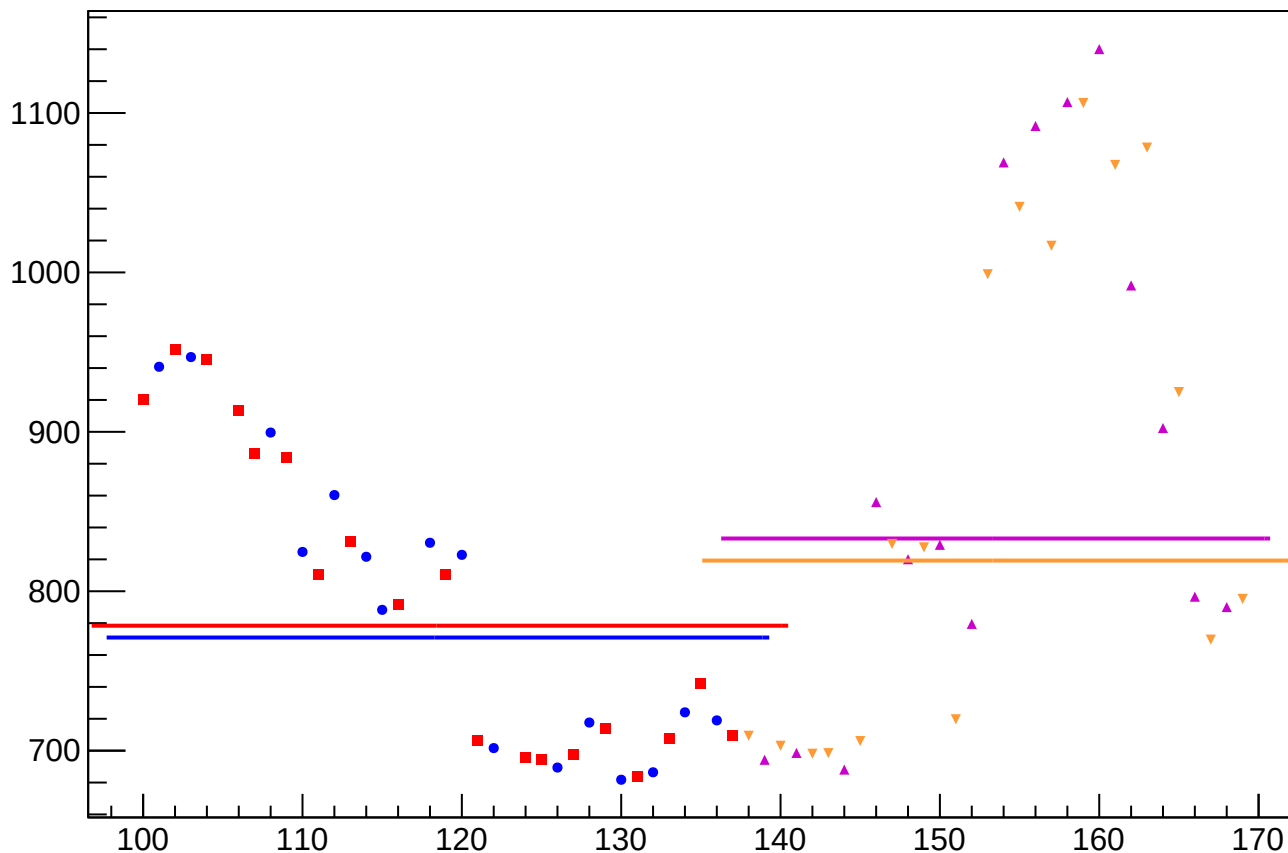
Right: 7.376 ± 0.203 $\chi^2/\text{NDF}: 609.2/34$

In: 2.175 ± 0.185 $\chi^2/\text{NDF}: 2273.8/30$

Out: 0.006 ± 0.178 $\chi^2/\text{NDF}: 791.8/35$

All: 1.049 ± 0.128 $\chi^2/\text{NDF}: 3137.0/66$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 770.973 ± 0.204 $\chi^2/\text{NDF}: 192911.9/15$

Left Out: 819.253 ± 0.161 $\chi^2/\text{NDF}: 742225.1/16$

Right Out: 778.394 ± 0.202 $\chi^2/\text{NDF}: 196544.2/18$

Left In: 833.084 ± 0.170 $\chi^2/\text{NDF}: 678809.9/14$

Left: 825.773 ± 0.117 $\chi^2/\text{NDF}: 1424518.3/31$

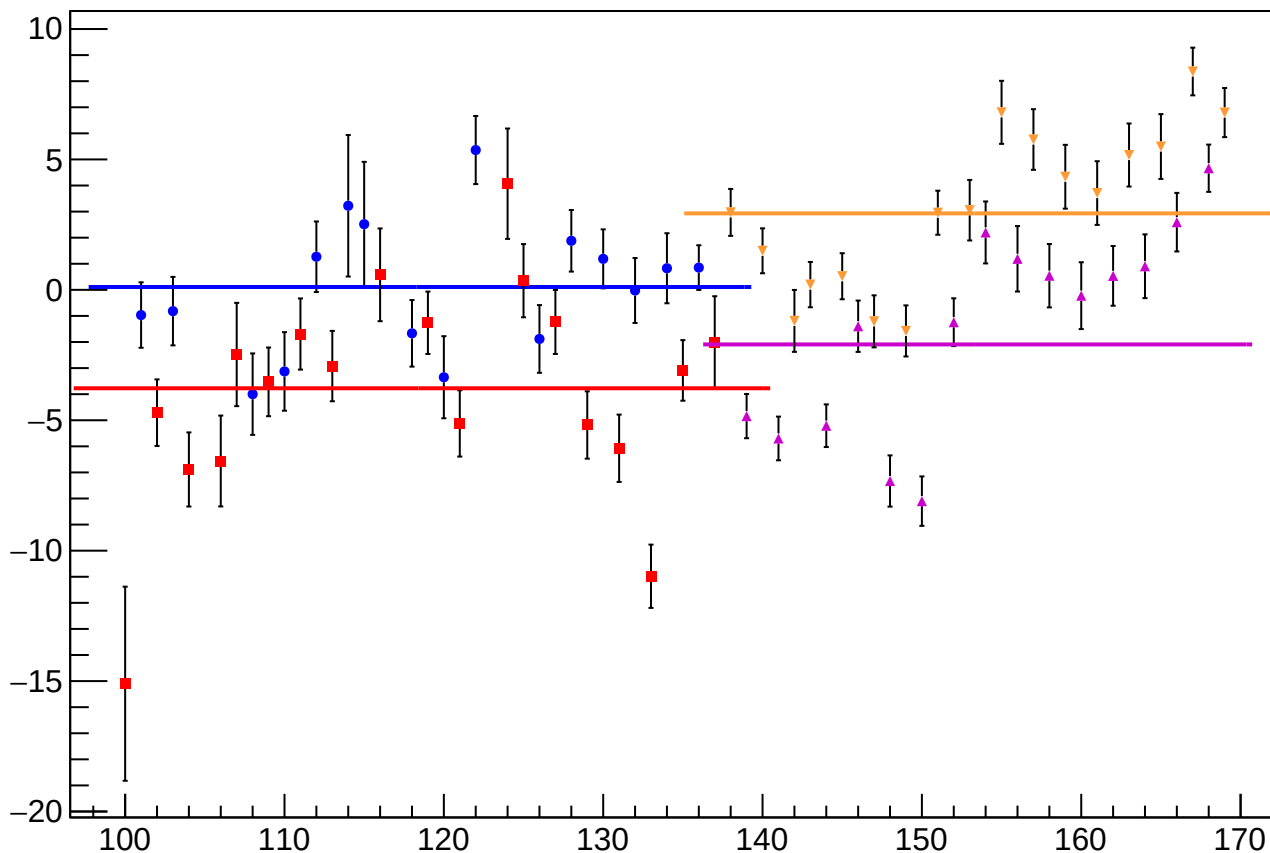
Right: 774.717 ± 0.144 $\chi^2/\text{NDF}: 390124.3/34$

In: 807.547 ± 0.131 $\chi^2/\text{NDF}: 926355.1/30$

Out: 803.399 ± 0.126 $\chi^2/\text{NDF}: 963792.8/35$

All: 805.394 ± 0.091 $\chi^2/\text{NDF}: 1890670.2/66$

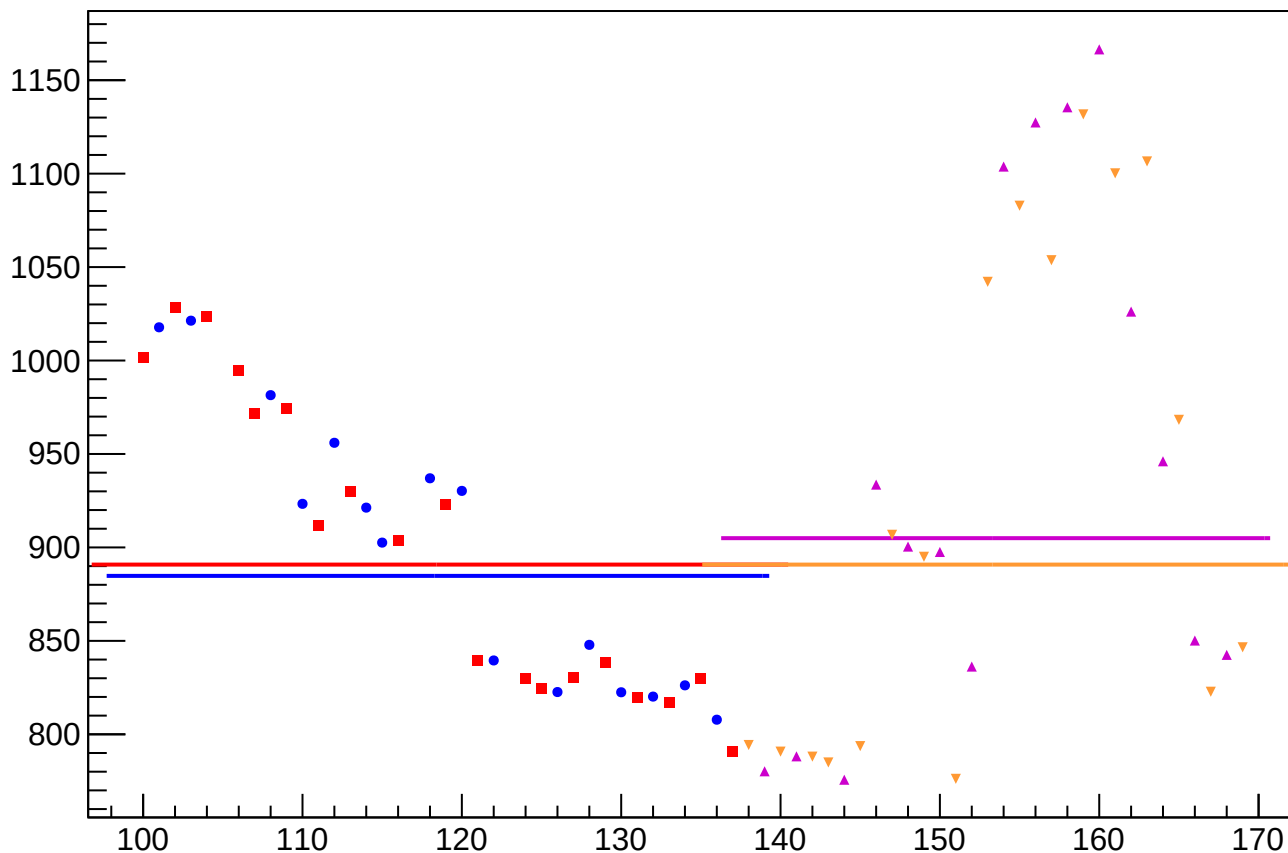
diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 0.109 ± 0.330 $\chi^2/\text{NDF}: 45.4/15$
 Left Out: 2.932 ± 0.246 $\chi^2/\text{NDF}: 148.5/16$
 Right Out: -3.774 ± 0.326 $\chi^2/\text{NDF}: 99.6/18$
 Left In: -2.092 ± 0.260 $\chi^2/\text{NDF}: 224.6/14$

Left: 0.561 ± 0.179 $\chi^2/\text{NDF}: 569.8/31$
 Right: -1.855 ± 0.232 $\chi^2/\text{NDF}: 215.0/34$
 In: -1.248 ± 0.204 $\chi^2/\text{NDF}: 297.4/30$
 Out: 0.499 ± 0.196 $\chi^2/\text{NDF}: 517.5/35$
 All: -0.340 ± 0.142 $\chi^2/\text{NDF}: 852.9/66$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 884.773 ± 0.233 χ^2/NDF : 104494.1/15

Left Out: 890.810 ± 0.174 χ^2/NDF : 503418.0/16

Right Out: 890.815 ± 0.231 χ^2/NDF : 107763.6/18

Left In: 904.953 ± 0.184 χ^2/NDF : 458348.9/14

Left: 897.484 ± 0.126 χ^2/NDF : 964884.6/31

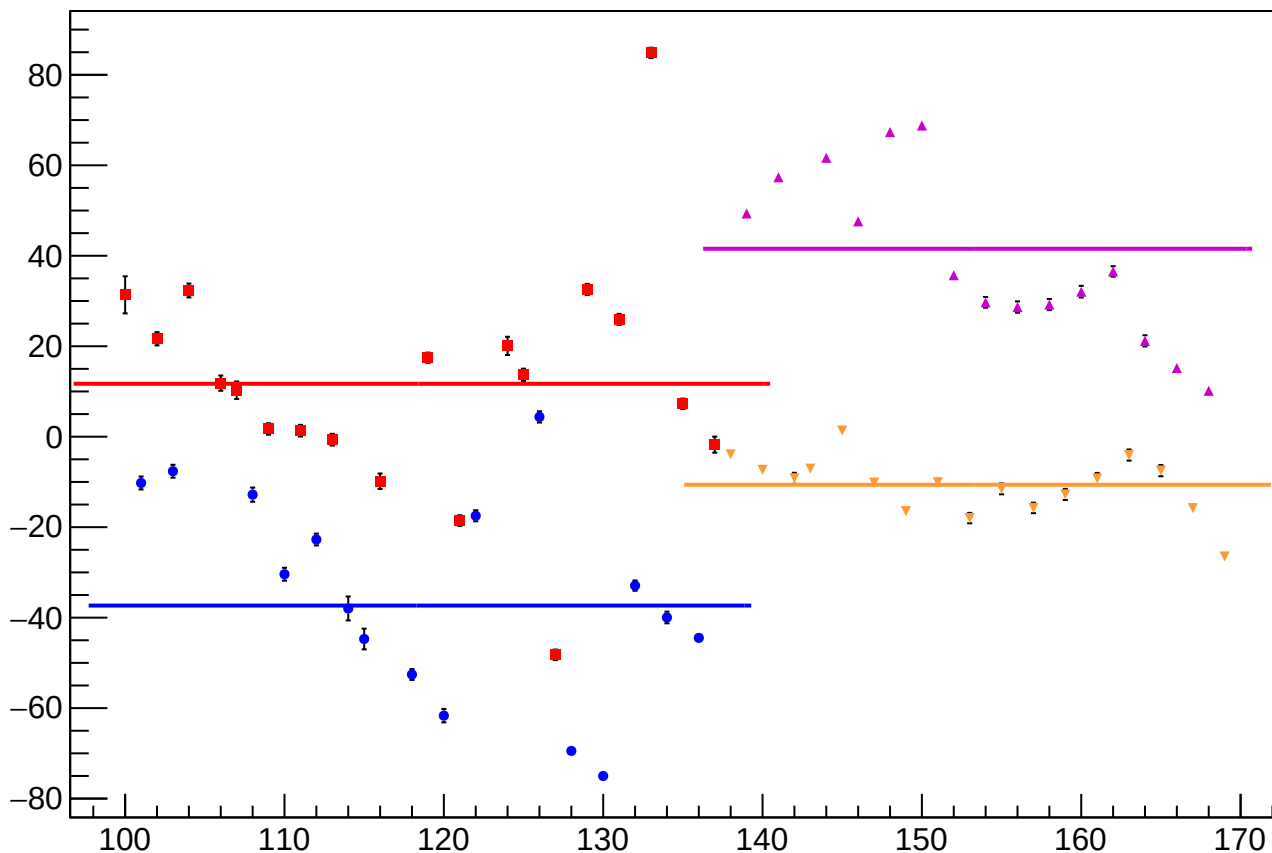
Right: 887.830 ± 0.164 χ^2/NDF : 212597.1/34

In: 897.210 ± 0.144 χ^2/NDF : 567455.0/30

Out: 890.812 ± 0.139 χ^2/NDF : 611181.6/35

All: 893.885 ± 0.100 χ^2/NDF : 1179655.6/66

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -37.330 ± 0.322 $\chi^2/\text{NDF}: 5184.7/15$

Left Out: -10.624 ± 0.249 $\chi^2/\text{NDF}: 714.0/16$

Right Out: 11.706 ± 0.318 $\chi^2/\text{NDF}: 8463.6/18$

Left In: 41.554 ± 0.265 $\chi^2/\text{NDF}: 4814.4/14$

Left: 13.878 ± 0.181 $\chi^2/\text{NDF}: 26157.6/31$

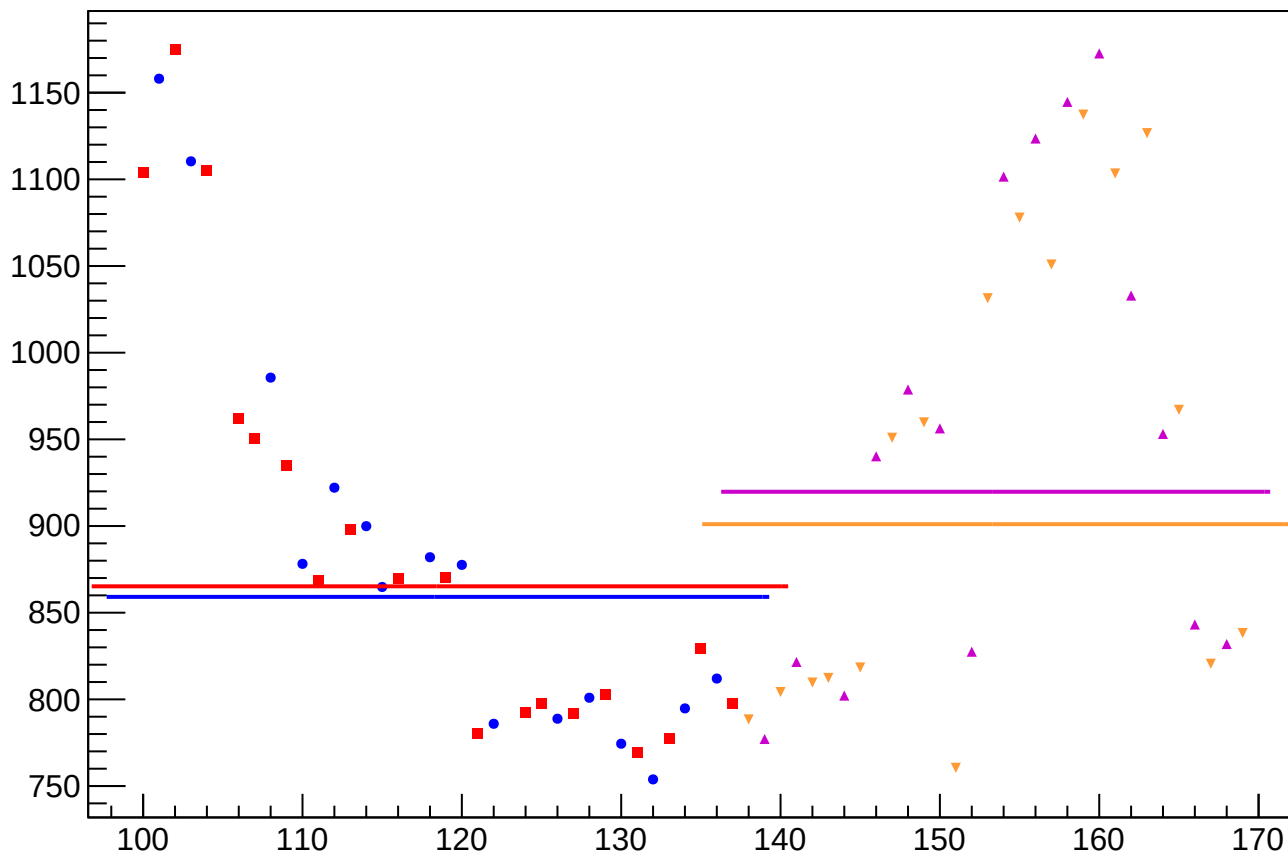
Right: -12.519 ± 0.226 $\chi^2/\text{NDF}: 25401.8/34$

In: 9.729 ± 0.204 $\chi^2/\text{NDF}: 45861.3/30$

Out: -2.136 ± 0.196 $\chi^2/\text{NDF}: 12236.1/35$

All: 3.549 ± 0.141 $\chi^2/\text{NDF}: 59853.3/66$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 859.126 ± 0.228 χ^2/NDF : 228710.0/15

Left Out: 901.066 ± 0.176 χ^2/NDF : 499949.3/16

Right Out: 865.213 ± 0.225 χ^2/NDF : 223669.1/18

Left In: 919.764 ± 0.187 χ^2/NDF : 444945.9/14

Left: 909.846 ± 0.128 χ^2/NDF : 950193.1/31

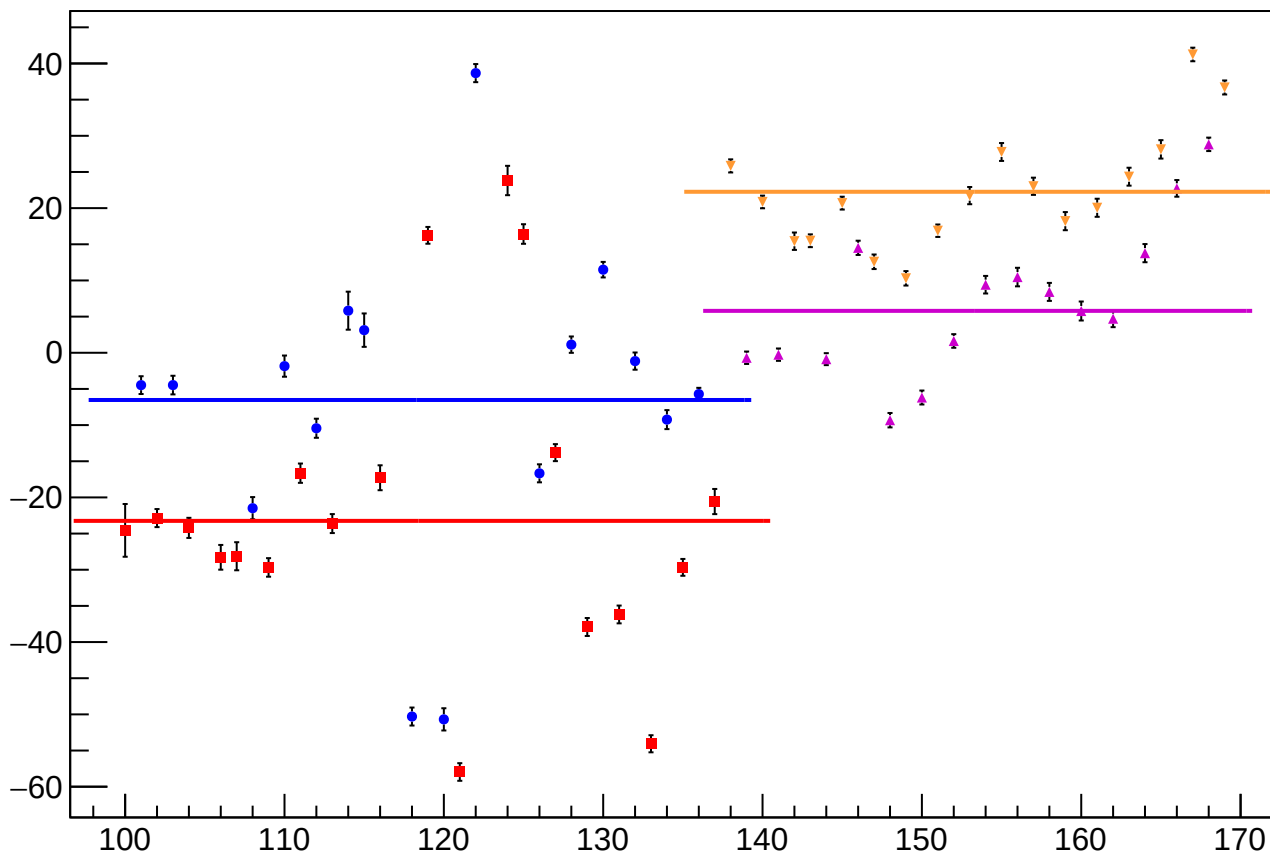
Right: 862.206 ± 0.160 χ^2/NDF : 452741.3/34

In: 895.300 ± 0.145 χ^2/NDF : 716037.4/30

Out: 887.438 ± 0.139 χ^2/NDF : 739386.5/35

All: 891.205 ± 0.100 χ^2/NDF : 1456965.8/66

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -6.529 ± 0.321 χ^2/NDF : 3946.1/15

Left Out: 22.261 ± 0.251 χ^2/NDF : 1075.8/16

Right Out: -23.244 ± 0.317 χ^2/NDF : 4470.0/18

Left In: 5.794 ± 0.265 χ^2/NDF : 1551.0/14

Left: 14.492 ± 0.182 χ^2/NDF : 4661.0/31

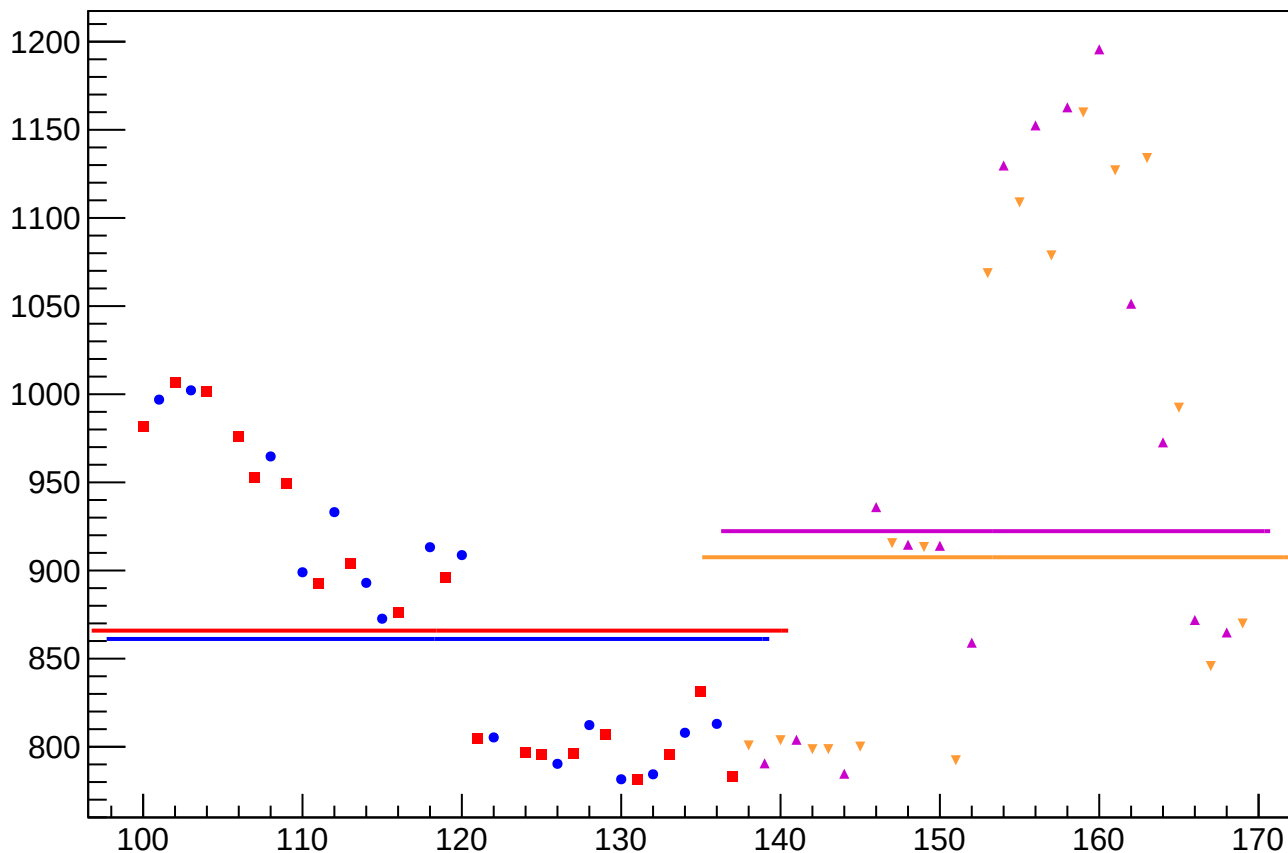
Right: -14.995 ± 0.226 χ^2/NDF : 9787.9/34

In: 0.796 ± 0.205 χ^2/NDF : 6372.0/30

Out: 4.747 ± 0.197 χ^2/NDF : 18218.9/35

All: 2.849 ± 0.142 χ^2/NDF : 24784.7/66

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 861.169 ± 0.227 $\chi^2/\text{NDF}: 113529.7/15$

Left Out: 907.526 ± 0.177 $\chi^2/\text{NDF}: 528697.3/16$

Right Out: 865.907 ± 0.224 $\chi^2/\text{NDF}: 118418.0/18$

Left In: 922.323 ± 0.188 $\chi^2/\text{NDF}: 473299.5/14$

Left: 914.507 ± 0.129 $\chi^2/\text{NDF}: 1005282.0/31$

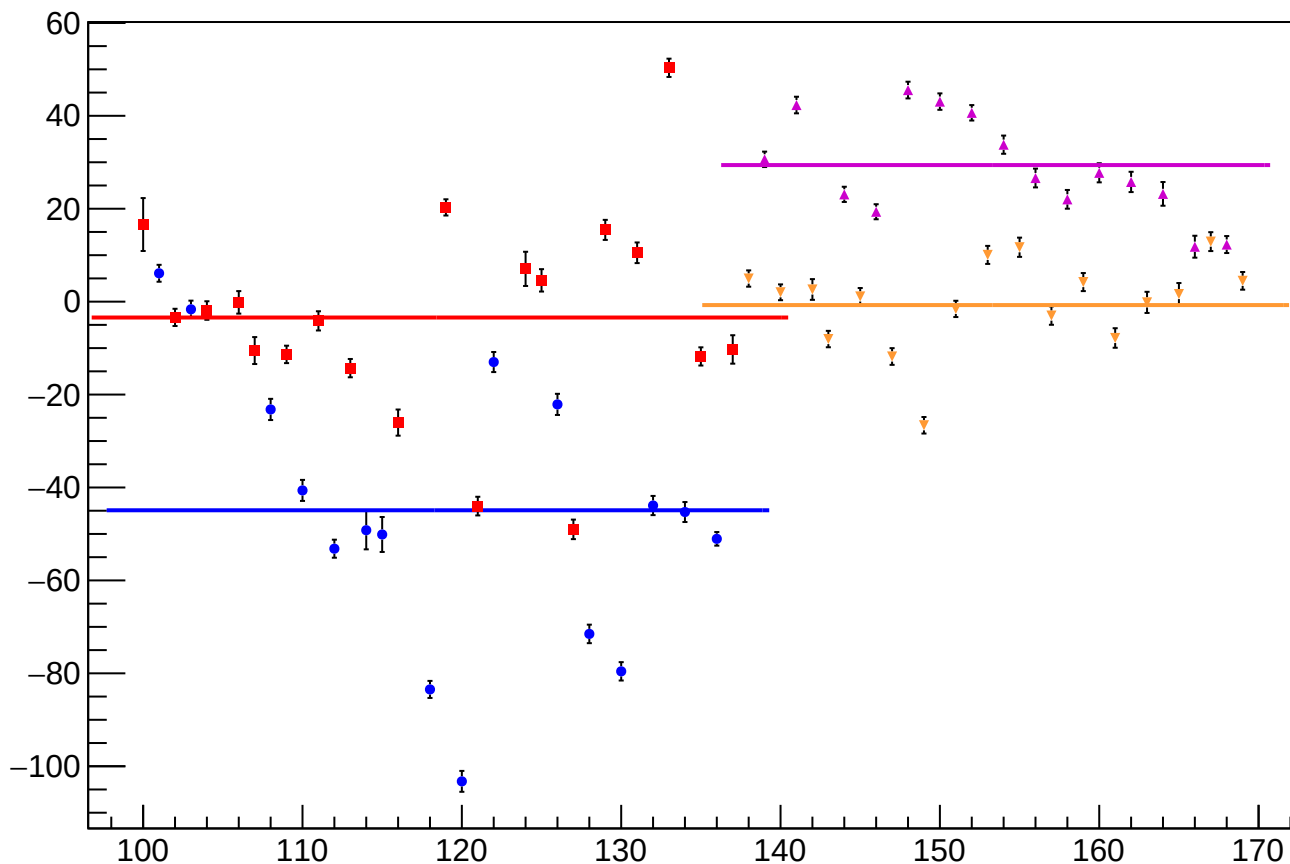
Right: 863.569 ± 0.160 $\chi^2/\text{NDF}: 232168.2/34$

In: 897.517 ± 0.145 $\chi^2/\text{NDF}: 629922.2/30$

Out: 891.507 ± 0.139 $\chi^2/\text{NDF}: 668318.0/35$

All: 894.394 ± 0.100 $\chi^2/\text{NDF}: 1299137.2/66$

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -44.905 ± 0.520 $\chi^2/\text{NDF}: 3377.6/15$

Left Out: -0.738 ± 0.467 $\chi^2/\text{NDF}: 423.6/16$

Right Out: -3.416 ± 0.509 $\chi^2/\text{NDF}: 2102.1/18$

Left In: 29.397 ± 0.485 $\chi^2/\text{NDF}: 464.8/14$

Left: 13.767 ± 0.337 $\chi^2/\text{NDF}: 2890.4/31$

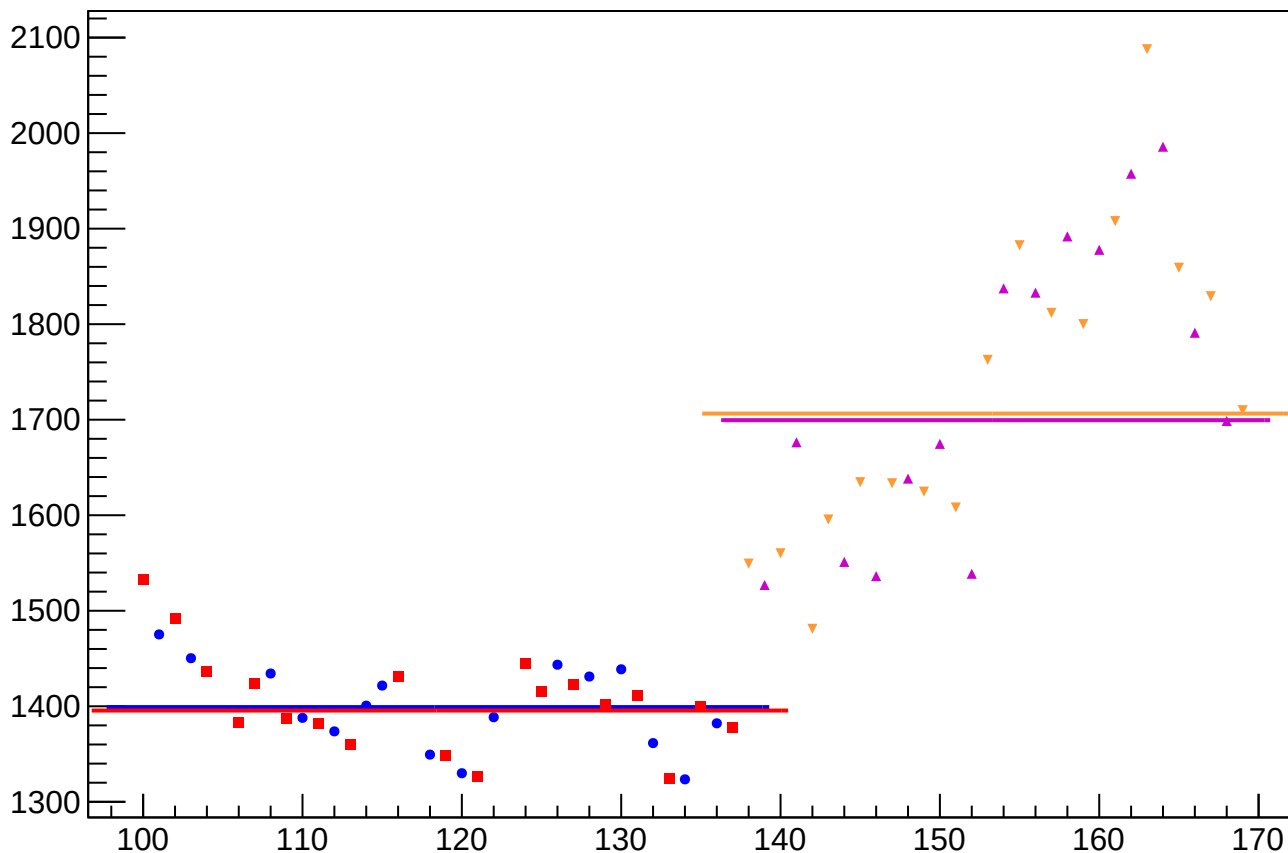
Right: -23.727 ± 0.364 $\chi^2/\text{NDF}: 8730.3/34$

In: -5.181 ± 0.355 $\chi^2/\text{NDF}: 14762.4/30$

Out: -1.962 ± 0.344 $\chi^2/\text{NDF}: 2540.7/35$

All: -3.524 ± 0.247 $\chi^2/\text{NDF}: 17345.5/66$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1399.172 $\pm$ 0.368 χ^2 /NDF: 14844.1/15

Left Out: 1706.427 $\pm$ 0.330 χ^2 /NDF:192654.2/16

Right Out: 1395.546 $\pm$ 0.360 χ^2 /NDF: 16240.9/18

Left In: 1699.510 $\pm$ 0.343 χ^2 /NDF:188034.9/14

Left: 1703.098 $\pm$ 0.238 χ^2 /NDF: 380900.1/31

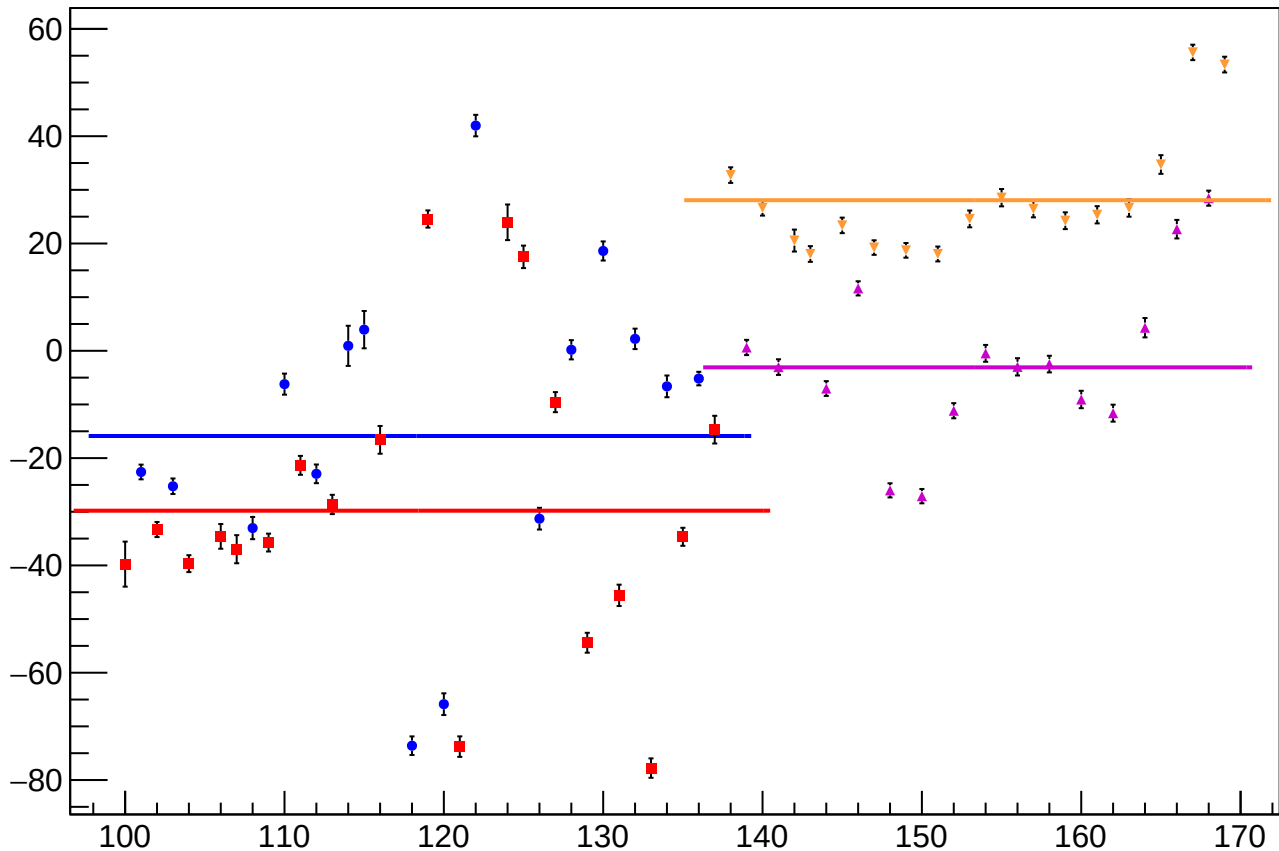
Right: 1397.321 $\pm$ 0.257 χ^2 /NDF: 31134.7/34

In: 1559.742 $\pm$ 0.251 χ^2 /NDF:559716.3/30

Out: 1564.303 $\pm$ 0.243 χ^2 /NDF:613642.8/35

All: 1562.090 $\pm$ 0.175 χ^2 /NDF: 1173529.4/66

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -15.878 ± 0.455 $\chi^2/\text{NDF}: 3477.8/15$

Left Out: 28.068 ± 0.368 $\chi^2/\text{NDF}: 916.3/16$

Right Out: -29.801 ± 0.444 $\chi^2/\text{NDF}: 3681.2/18$

Left In: -3.085 ± 0.383 $\chi^2/\text{NDF}: 1585.9/14$

Left: 13.078 ± 0.265 $\chi^2/\text{NDF}: 5942.8/31$

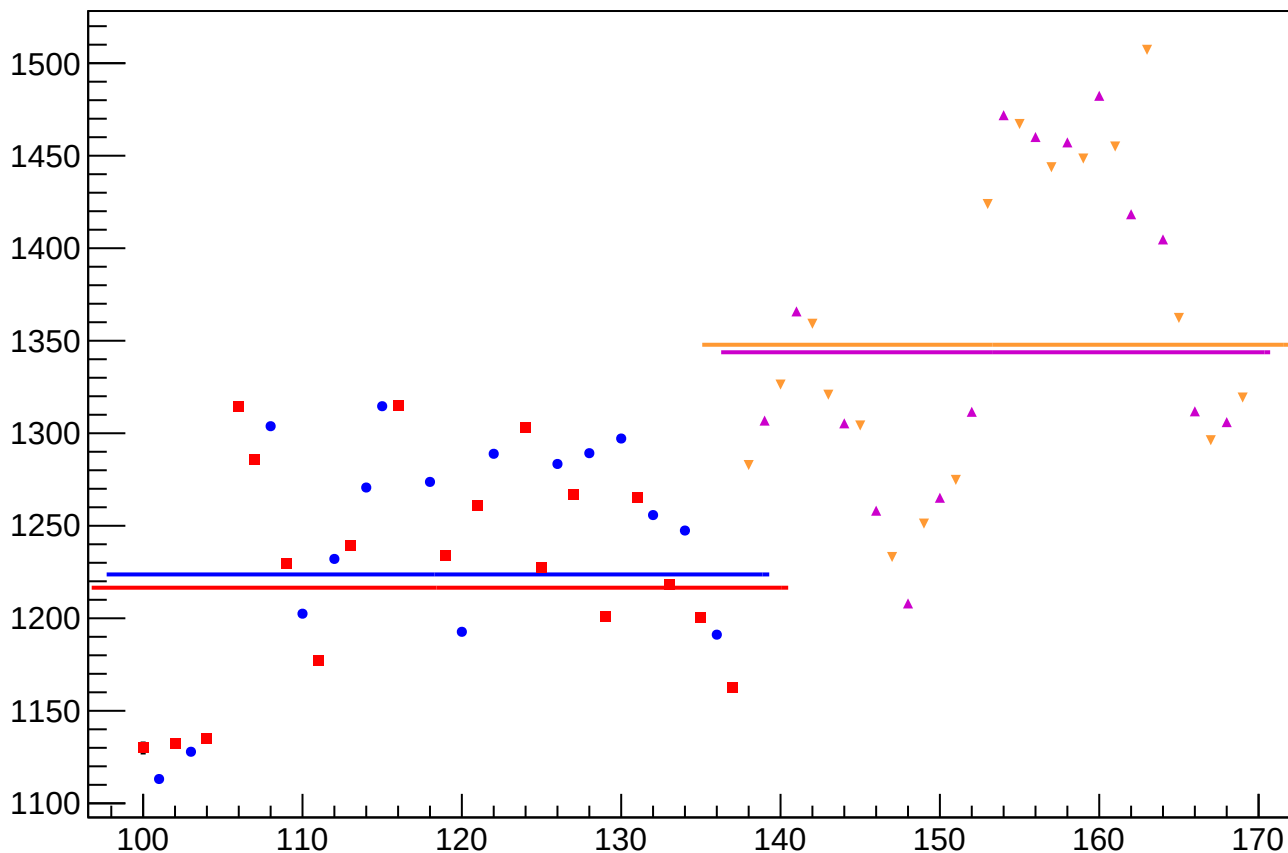
Right: -23.008 ± 0.318 $\chi^2/\text{NDF}: 7638.0/34$

In: -8.379 ± 0.293 $\chi^2/\text{NDF}: 5526.6/30$

Out: 4.495 ± 0.284 $\chi^2/\text{NDF}: 14648.5/35$

All: -1.736 ± 0.204 $\chi^2/\text{NDF}: 21172.2/66$

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1223.702 $\pm$ 0.322 χ^2 /NDF: 40883.8/15

Left Out: 1347.834 $\pm$ 0.261 χ^2 /NDF:99355.7/16

Right Out: 1216.533 $\pm$ 0.314 χ^2 /NDF: 29381.0/18

Left In: 1343.771 $\pm$ 0.270 χ^2 /NDF:98790.6/14

Left: 1345.879 $\pm$ 0.188 χ^2 /NDF: 198263.3/31

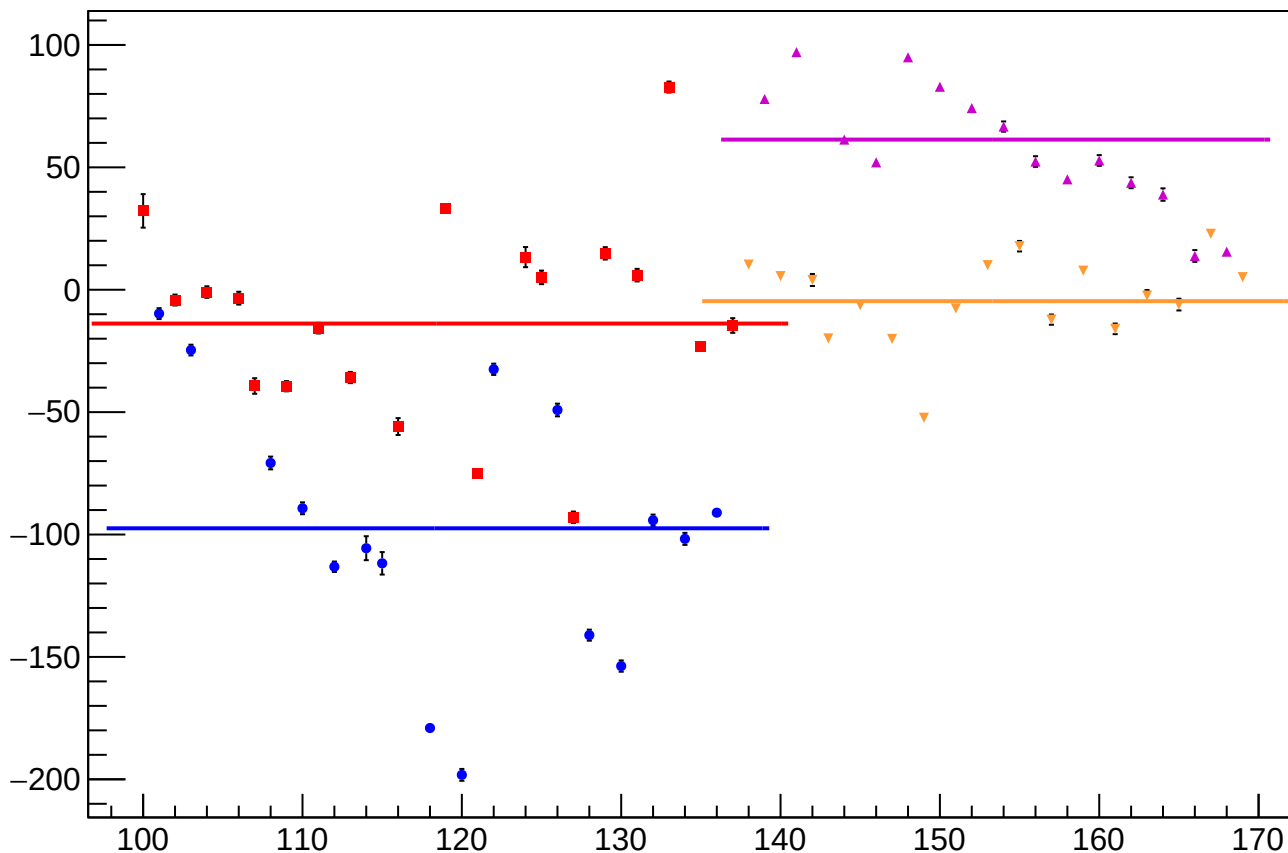
Right: 1220.031 $\pm$ 0.225 χ^2 /NDF: 70518.8/34

In: 1294.078 $\pm$ 0.207 χ^2 /NDF:221220.7/30

Out: 1294.347 $\pm$ 0.201 χ^2 /NDF:232223.5/35

All: 1294.217 $\pm$ 0.144 χ^2 /NDF: 453445.1/66

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -97.455 ± 0.579 $\chi^2/\text{NDF}: 8300.2/15$

Left Out: -4.665 ± 0.480 $\chi^2/\text{NDF}: 1421.7/16$

Right Out: -13.816 ± 0.566 $\chi^2/\text{NDF}: 5352.2/18$

Left In: 61.340 ± 0.500 $\chi^2/\text{NDF}: 2299.7/14$

Left: 26.970 ± 0.346 $\chi^2/\text{NDF}: 12796.3/31$

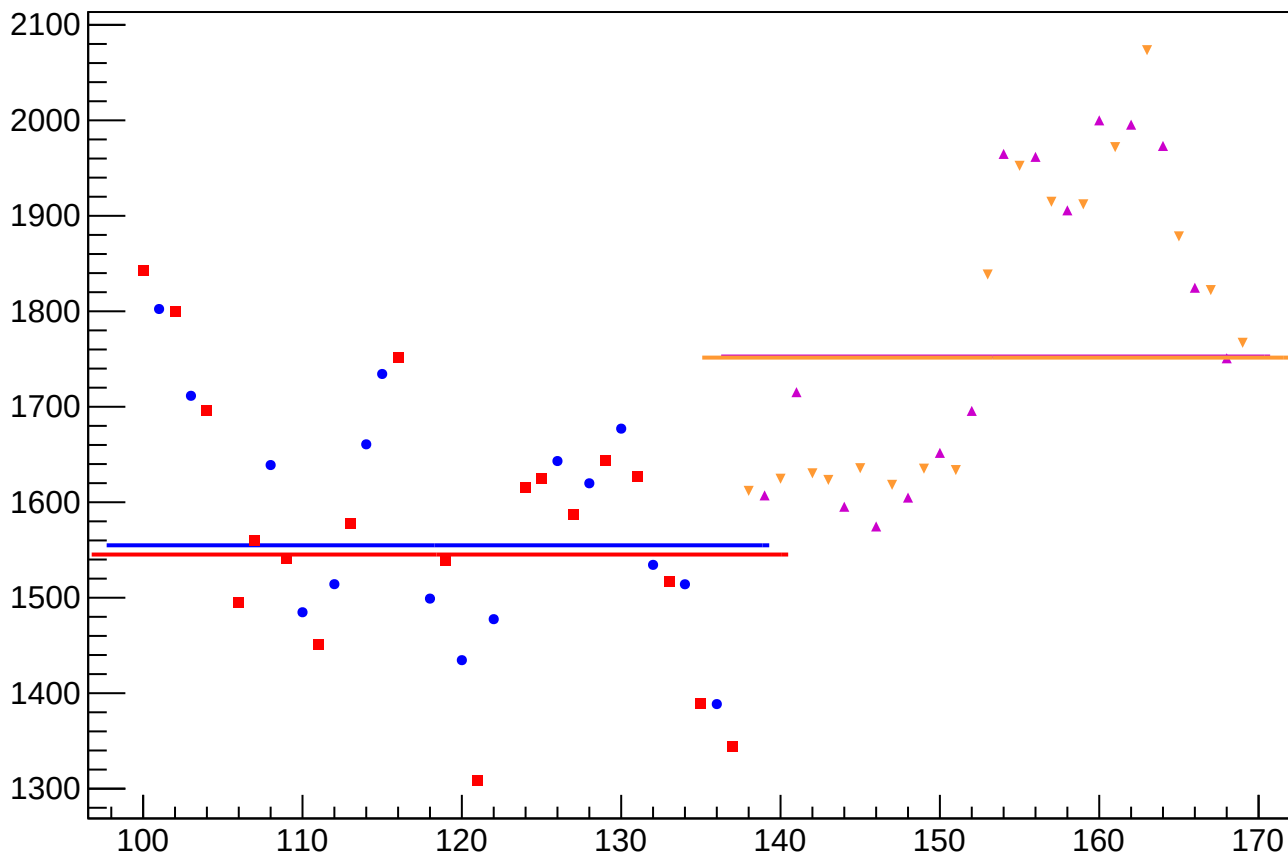
Right: -54.632 ± 0.405 $\chi^2/\text{NDF}: 24320.8/34$

In: -6.434 ± 0.379 $\chi^2/\text{NDF}: 53651.6/30$

Out: -8.493 ± 0.366 $\chi^2/\text{NDF}: 6926.1/35$

All: -7.499 ± 0.263 $\chi^2/\text{NDF}: 60593.1/66$

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1554.908 $\pm$ 0.410 χ^2 /NDF: 87920.1/15

Left Out: 1751.502 $\pm$ 0.339 χ^2 /NDF:188294.8/16

Right Out: 1545.239 $\pm$ 0.400 χ^2 /NDF: 108789.4/18

Left In: 1752.627 $\pm$ 0.354 χ^2 /NDF:194819.1/14

Left: 1752.041 $\pm$ 0.245 χ^2 /NDF: 383119.2/31

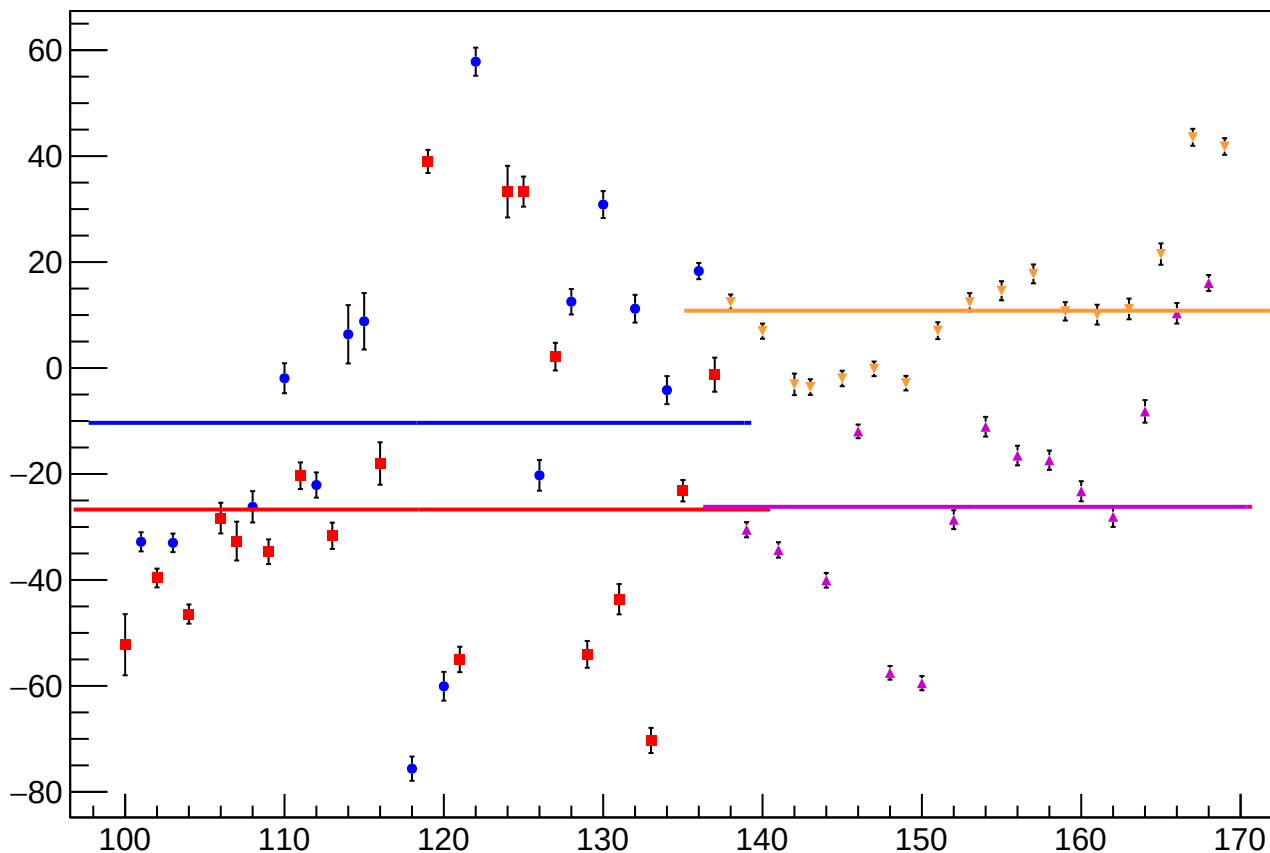
Right: 1549.957 $\pm$ 0.286 χ^2 /NDF: 196994.7/34

In: 1668.240 $\pm$ 0.268 χ^2 /NDF:416226.3/30

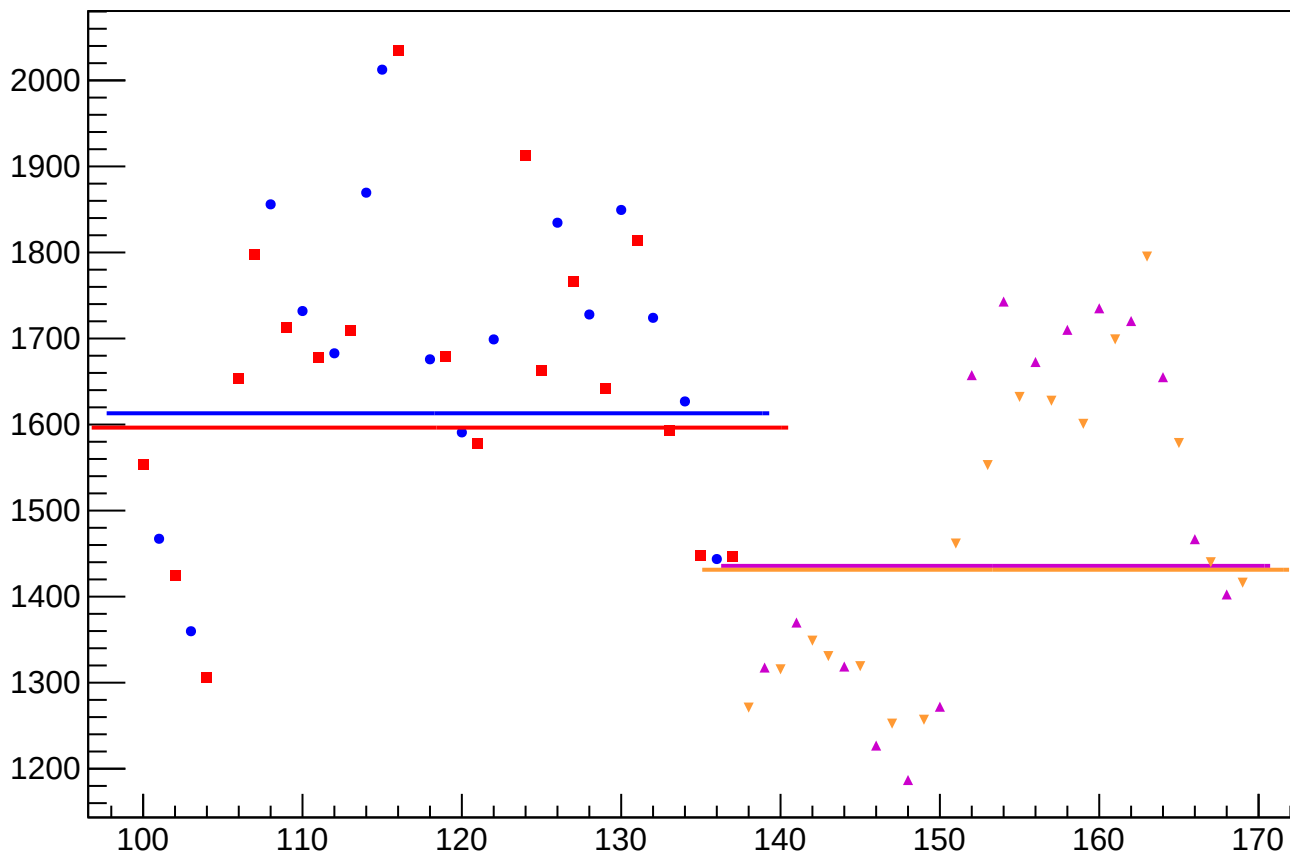
Out: 1665.223 $\pm$ 0.259 χ^2 /NDF:451769.3/35

All: 1666.680 $\pm$ 0.186 χ^2 /NDF: 868061.3/66

diff_bpm0i02aY_mean vs Slug, Sign Corrected



diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1613.094 $\pm$ 0.426 χ^2 /NDF: 154710.6/15

Left Out: 1431.261 $\pm$ 0.278 χ^2 /NDF:327902.6/16

Right Out: 1596.442 $\pm$ 0.415 χ^2 /NDF: 160714.8/18

Left In: 1435.736 $\pm$ 0.291 χ^2 /NDF:466922.5/14

Left: 1433.395 $\pm$ 0.201 χ^2 /NDF: 794948.5/31

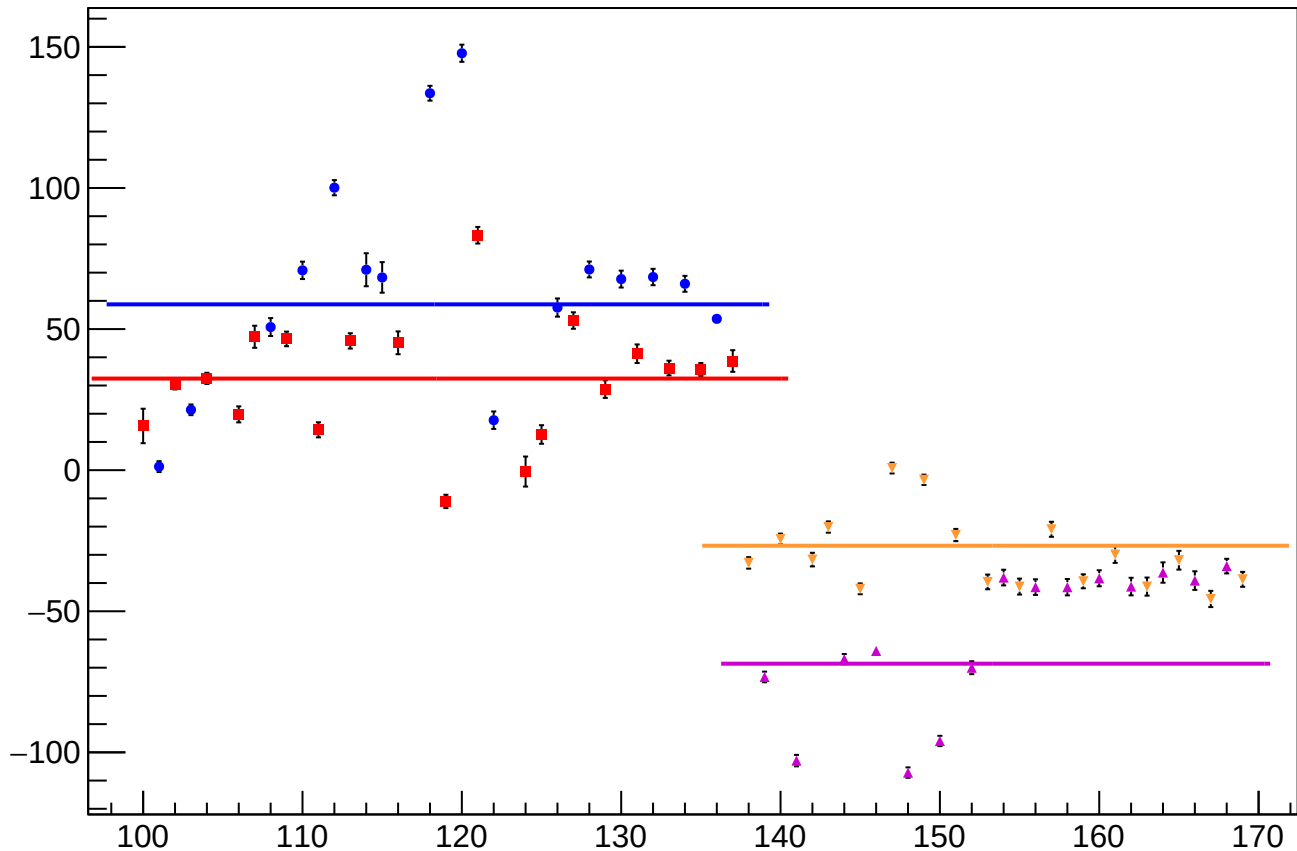
Right: 1604.533 $\pm$ 0.297 χ^2 /NDF: 316209.2/34

In: 1492.186 $\pm$ 0.241 χ^2 /NDF:739530.6/30

Out: 1482.525 $\pm$ 0.231 χ^2 /NDF:598076.4/35

All: 1487.158 $\pm$ 0.167 χ^2 /NDF: 1338446.1/66

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 58.761 ± 0.672 $\chi^2/\text{NDF}: 3443.3/15$

Left Out: -26.775 ± 0.565 $\chi^2/\text{NDF}: 629.6/16$

Right Out: 32.467 ± 0.648 $\chi^2/\text{NDF}: 930.8/18$

Left In: -68.576 ± 0.591 $\chi^2/\text{NDF}: 1798.0/14$

Left: -46.733 ± 0.409 $\chi^2/\text{NDF}: 5039.7/31$

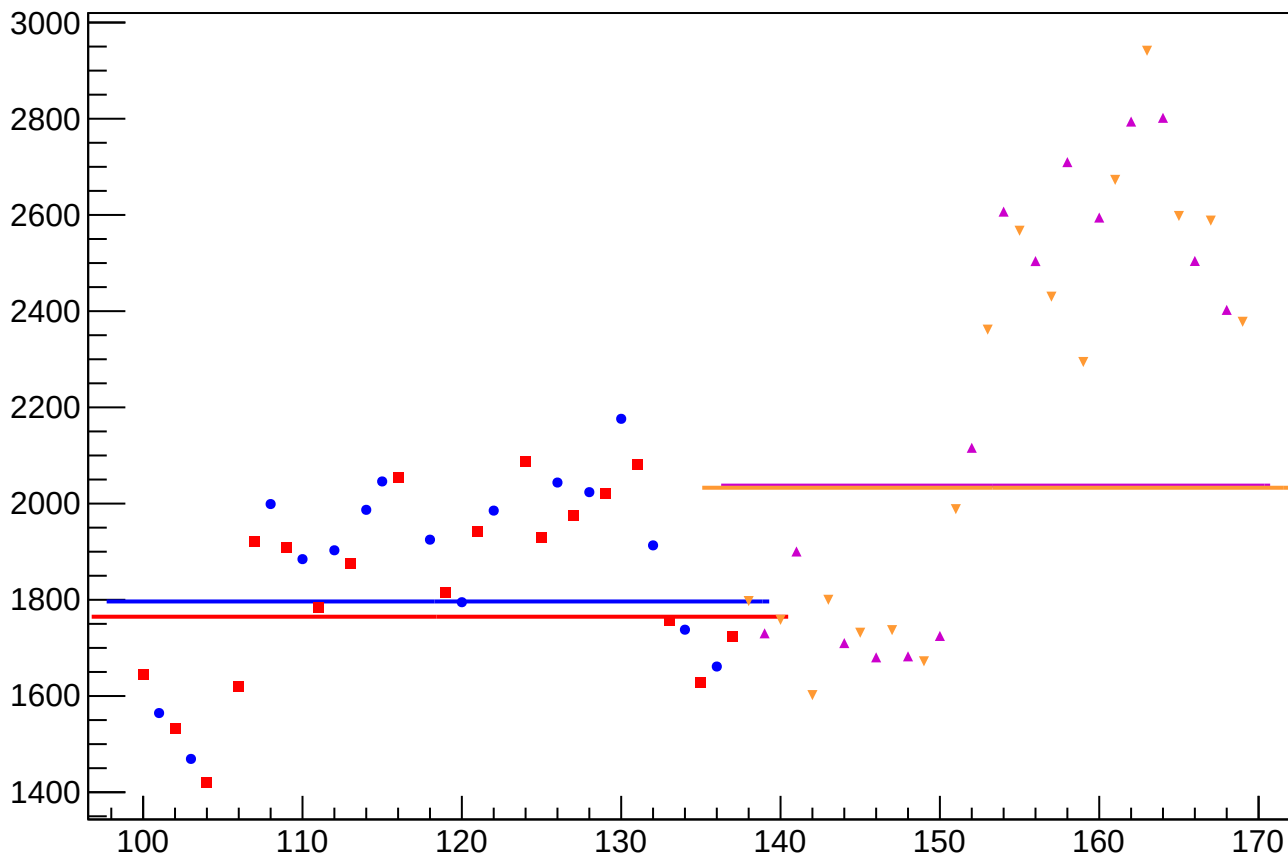
Right: 45.136 ± 0.467 $\chi^2/\text{NDF}: 5166.5/34$

In: -13.058 ± 0.444 $\chi^2/\text{NDF}: 25465.7/30$

Out: -1.201 ± 0.426 $\chi^2/\text{NDF}: 6303.9/35$

All: -6.885 ± 0.307 $\chi^2/\text{NDF}: 32140.9/66$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1796.555 $\pm$ 0.475 χ^2/NDF : 193171.9/15

Left Out: 2032.954 $\pm$ 0.400 χ^2/NDF : 924922.9/16

Right Out: 1764.860 $\pm$ 0.459 χ^2/NDF : 189987.9/18

Left In: 2037.359 $\pm$ 0.418 χ^2/NDF : 957390.9/14

Left: 2035.057 $\pm$ 0.289 χ^2/NDF : 1882371.8/31

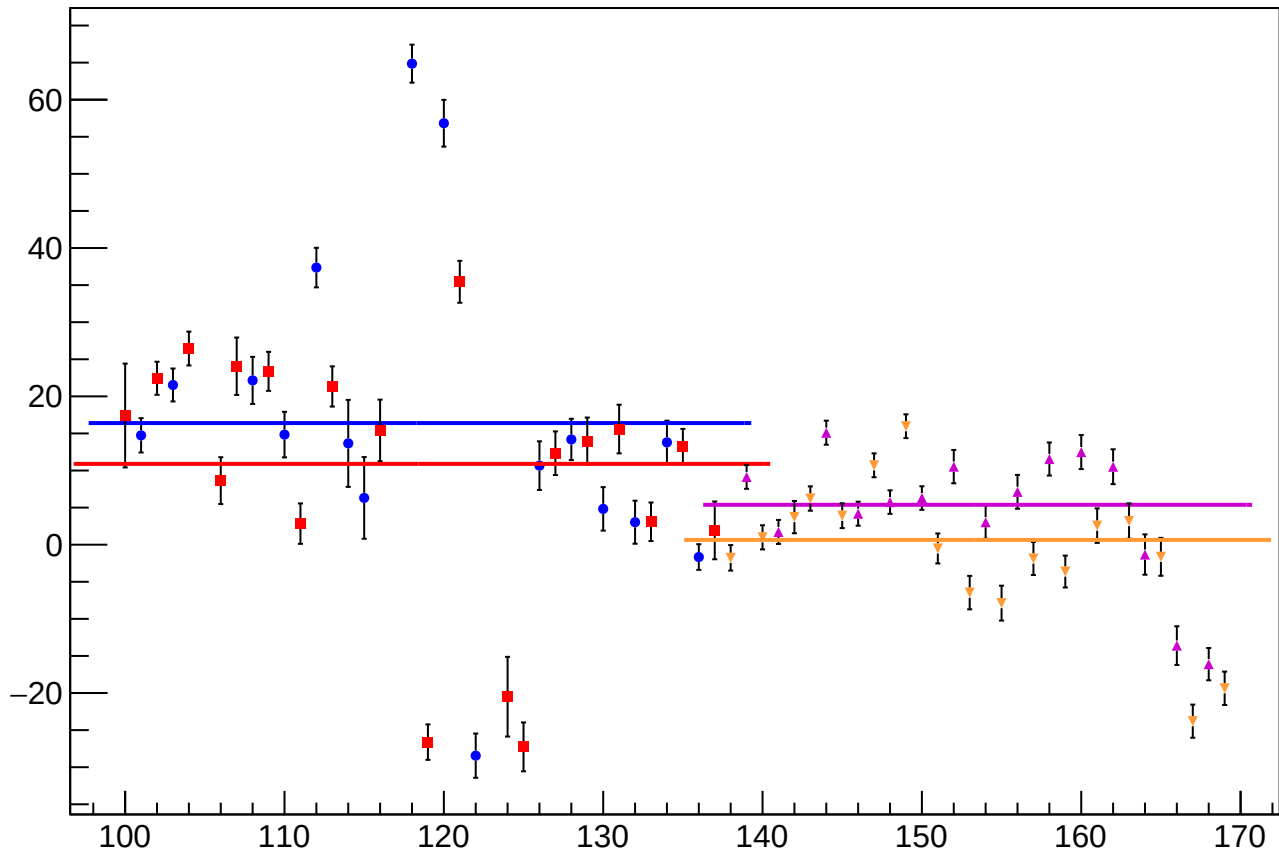
Right: 1780.131 $\pm$ 0.330 χ^2/NDF : 385462.0/34

In: 1932.370 $\pm$ 0.314 χ^2/NDF : 1295214.0/30

Out: 1917.222 $\pm$ 0.301 χ^2/NDF : 1309202.6/35

All: 1924.483 $\pm$ 0.217 χ^2/NDF : 2605628.6/66

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 16.400+/-0.695 χ^2/NDF : 973.0/15

Left Out: 0.646+/-0.478 χ^2/NDF : 379.4/16

Right Out: 10.899+/-0.676 χ^2/NDF : 641.7/18

Left In: 5.378+/-0.501 χ^2/NDF : 233.2/14

Left: 2.901+/-0.346 χ^2/NDF : 659.3/31

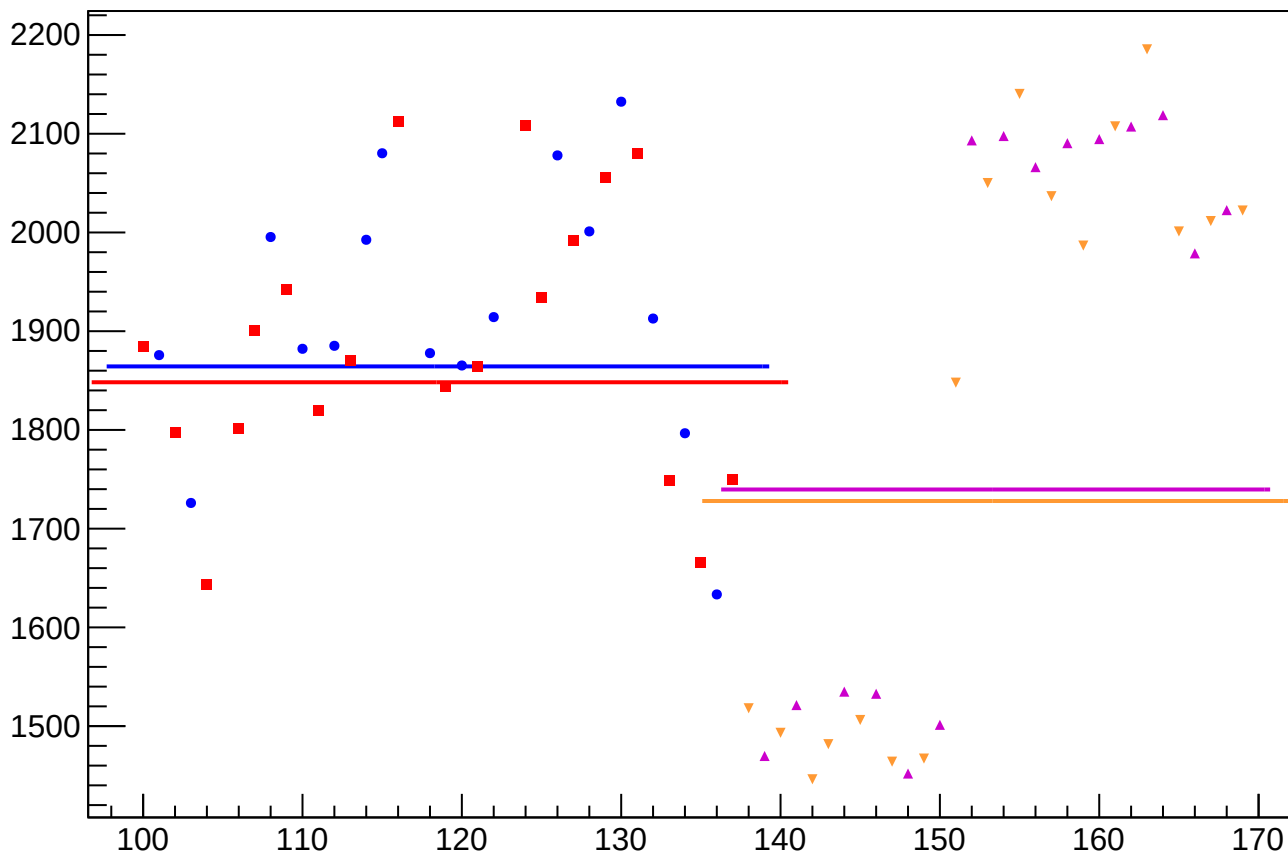
Right: 13.575+/-0.485 χ^2/NDF : 1646.8/34

In: 9.144+/-0.406 χ^2/NDF : 1371.7/30

Out: 4.059+/-0.390 χ^2/NDF : 1174.5/35

All: 6.499+/-0.281 χ^2/NDF : 2627.7/66

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1864.335 $\pm$ 0.491 χ^2 /NDF: 83311.5/15

Left Out: 1728.007 $\pm$ 0.338 χ^2 /NDF: 684822.2/16

Right Out: 1848.284 $\pm$ 0.478 χ^2 /NDF: 74956.9/18

Left In: 1739.671 $\pm$ 0.354 χ^2 /NDF: 646935.1/14

Left: 1733.565 $\pm$ 0.244 χ^2 /NDF: 1332325.4/31

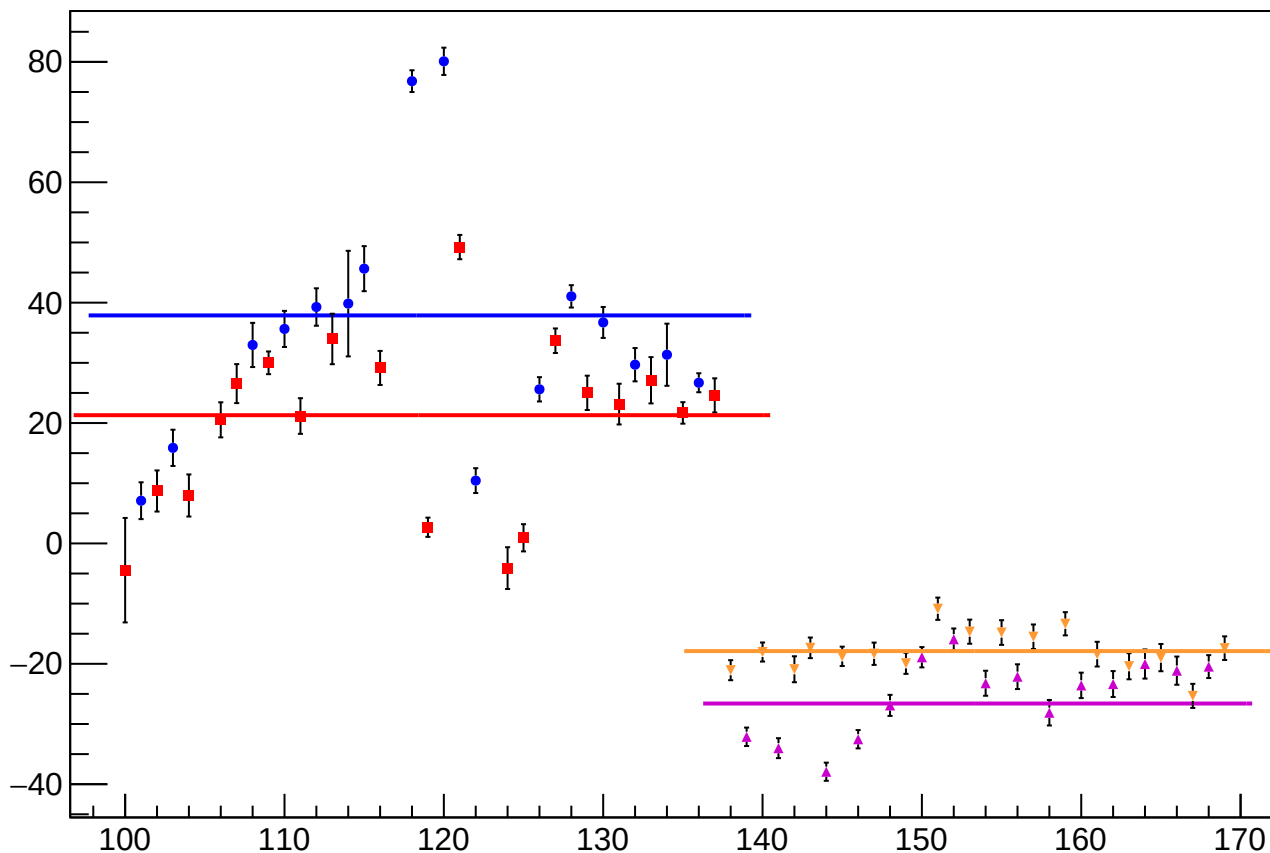
Right: 1856.091 $\pm$ 0.343 χ^2 /NDF: 158816.4/34

In: 1782.271 $\pm$ 0.287 χ^2 /NDF: 772610.0/30

Out: 1768.048 $\pm$ 0.276 χ^2 /NDF: 801983.9/35

All: 1774.873 $\pm$ 0.199 χ^2 /NDF: 1575869.0/66

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 37.880 ± 0.622 $\chi^2/\text{NDF}: 1249.8/15$

Left Out: -17.887 ± 0.458 $\chi^2/\text{NDF}: 49.1/16$

Right Out: 21.306 ± 0.593 $\chi^2/\text{NDF}: 582.6/18$

Left In: -26.597 ± 0.476 $\chi^2/\text{NDF}: 196.4/14$

Left: -22.075 ± 0.330 $\chi^2/\text{NDF}: 419.3/31$

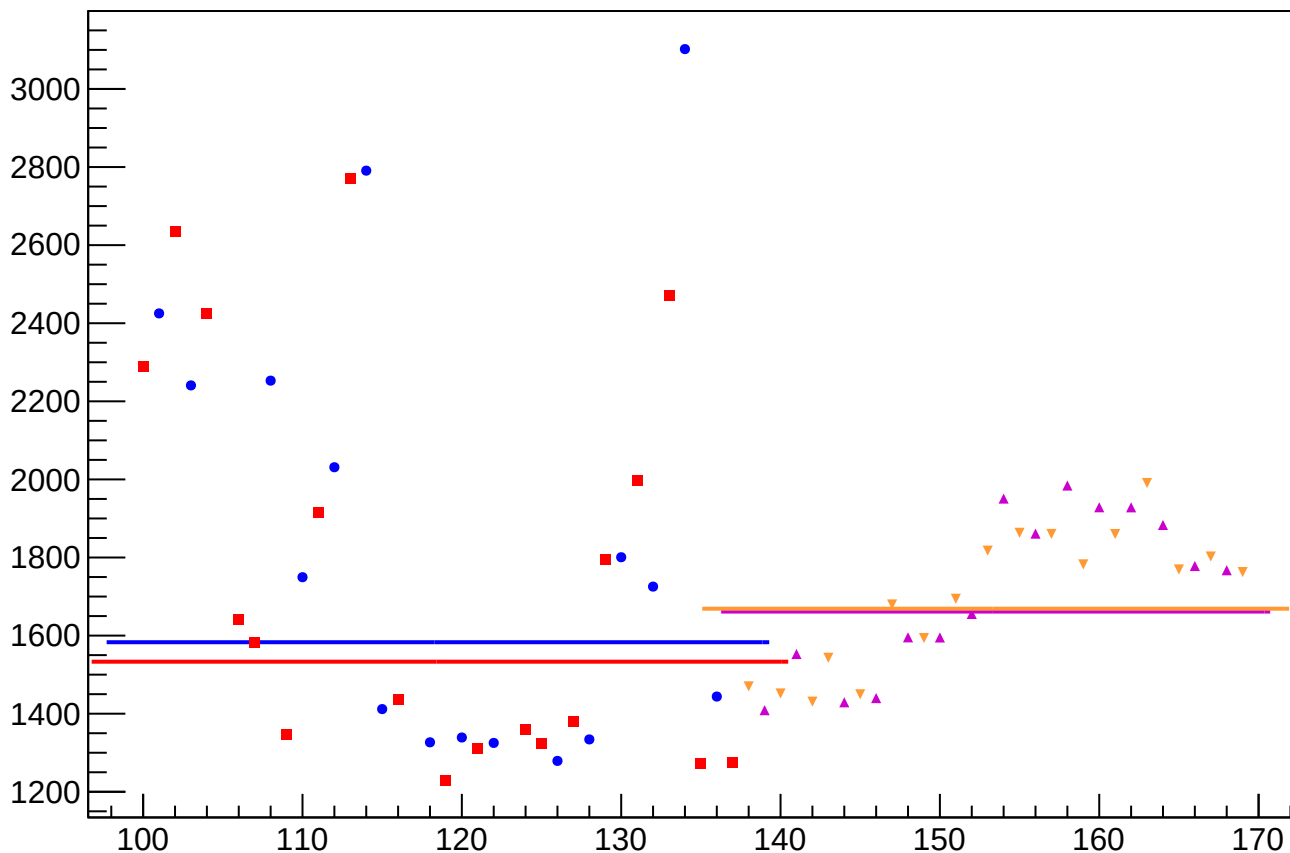
Right: 29.192 ± 0.429 $\chi^2/\text{NDF}: 2204.2/34$

In: -2.791 ± 0.378 $\chi^2/\text{NDF}: 8216.5/30$

Out: -3.231 ± 0.363 $\chi^2/\text{NDF}: 3367.1/35$

All: -3.020 ± 0.262 $\chi^2/\text{NDF}: 11584.3/66$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1583.050 ± 0.440 $\chi^2/\text{NDF}: 787672.4/15$

Left Out: 1668.900 ± 0.324 $\chi^2/\text{NDF}: 274796.3/16$

Right Out: 1533.190 ± 0.419 $\chi^2/\text{NDF}: 950777.4/18$

Left In: 1661.542 ± 0.337 $\chi^2/\text{NDF}: 353321.7/14$

Left: 1665.362 ± 0.233 $\chi^2/\text{NDF}: 628366.0/31$

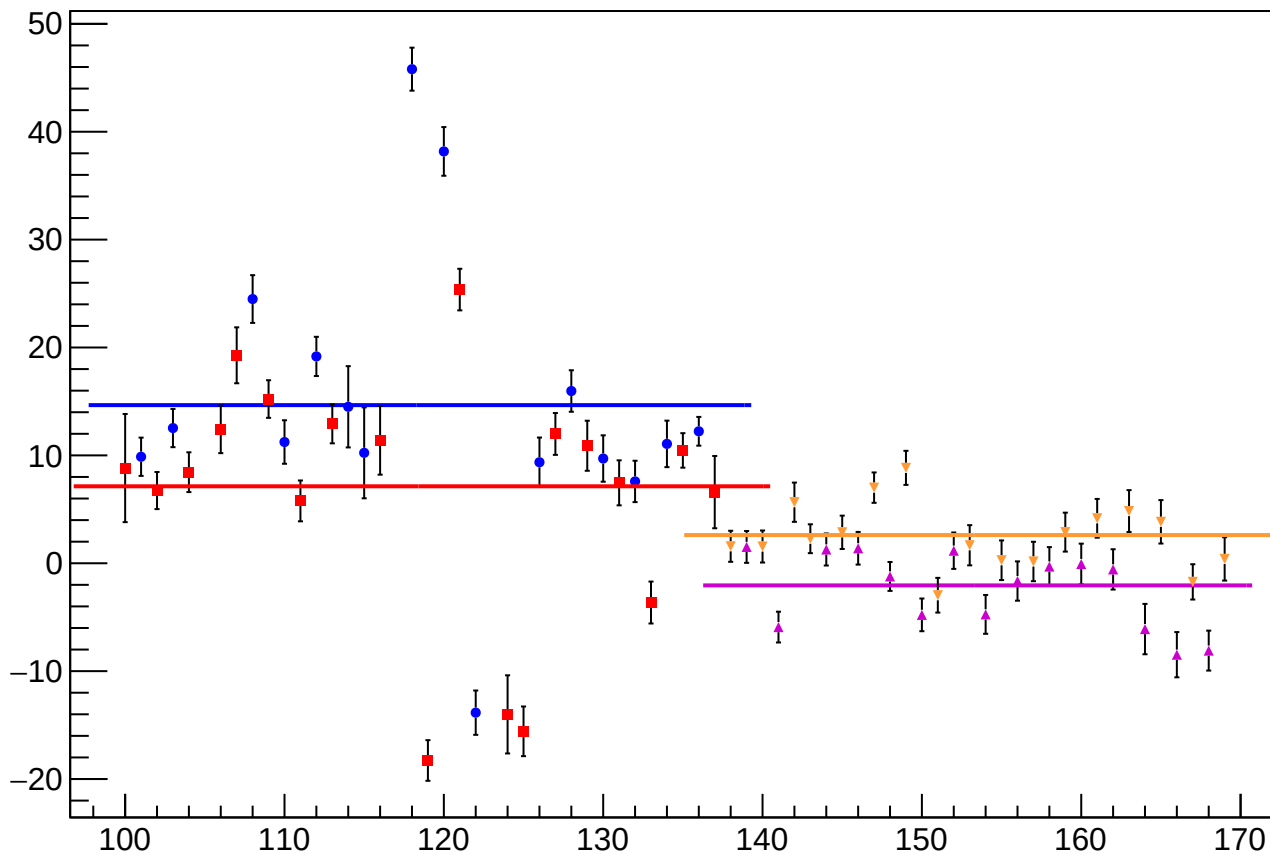
Right: 1556.913 ± 0.304 $\chi^2/\text{NDF}: 1745178.6/34$

In: 1632.562 ± 0.267 $\chi^2/\text{NDF}: 1161060.9/30$

Out: 1618.151 ± 0.256 $\chi^2/\text{NDF}: 1291166.0/35$

All: 1625.054 ± 0.185 $\chi^2/\text{NDF}: 2453740.0/66$

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 14.658 $\pm$ 0.504 χ^2/NDF : 614.8/15

Left Out: 2.615 $\pm$ 0.403 χ^2/NDF : 55.7/16

Right Out: 7.135 $\pm$ 0.483 χ^2/NDF : 509.4/18

Left In: -2.052 $\pm$ 0.432 χ^2/NDF : 58.6/14

Left: 0.438 $\pm$ 0.295 χ^2/NDF : 176.7/31

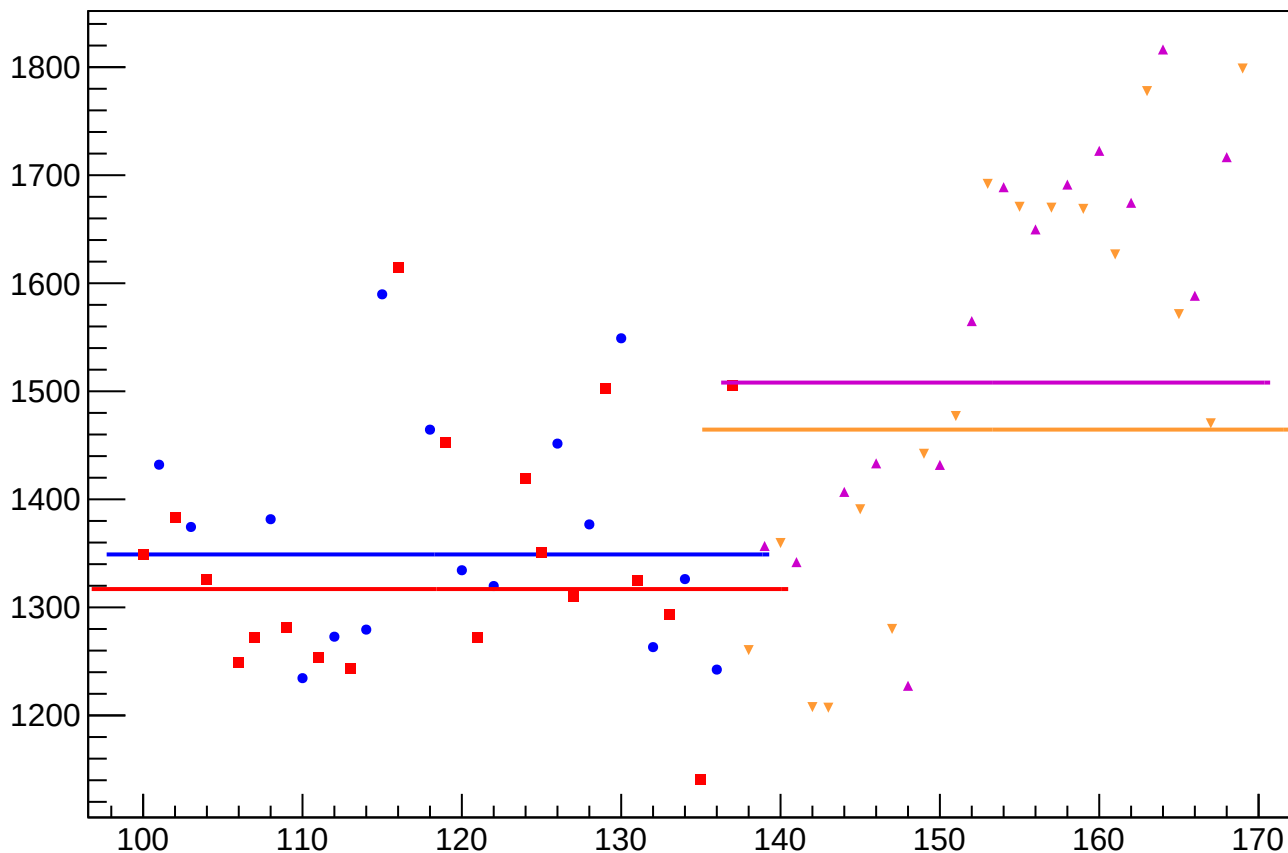
Right: 10.734 $\pm$ 0.349 χ^2/NDF : 1240.2/34

In: 5.008 $\pm$ 0.328 χ^2/NDF : 1307.0/30

Out: 4.471 $\pm$ 0.310 χ^2/NDF : 616.6/35

All: 4.724 $\pm$ 0.225 χ^2/NDF : 1925.0/66

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1349.000+/-0.357 χ^2/NDF : 68383.7/15

Left Out: 1464.544+/-0.285 χ^2/NDF : 439062.7/16

Right Out: 1316.961+/-0.342 χ^2/NDF : 86873.7/18

Left In: 1508.059+/-0.305 χ^2/NDF : 315123.7/14

Left: 1484.837+/-0.208 χ^2/NDF : 765039.3/31

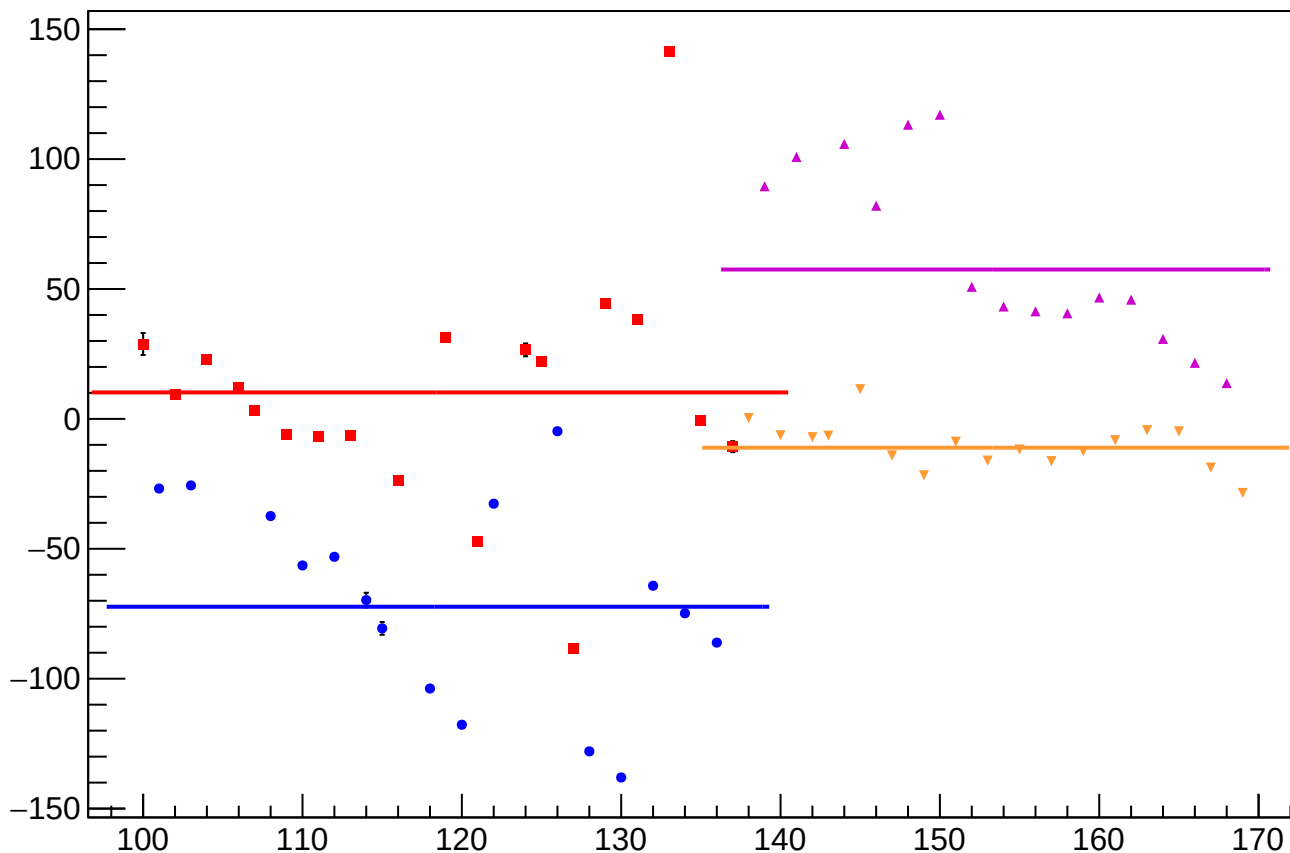
Right: 1332.289+/-0.247 χ^2/NDF : 159464.7/34

In: 1440.854+/-0.232 χ^2/NDF : 498314.8/30

Out: 1403.927+/-0.219 χ^2/NDF : 635888.7/35

All: 1421.333+/-0.159 χ^2/NDF : 1147609.5/66

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -72.304 +/- 0.349 χ^2/NDF : 12153.8/15

Left Out: -11.084 +/- 0.228 χ^2/NDF : 1487.1/16

Right Out: 10.188 +/- 0.345 χ^2/NDF : 19045.9/18

Left In: 57.498 +/- 0.242 χ^2/NDF : 17748.7/14

Left: 21.282 +/- 0.166 χ^2/NDF : 61774.5/31

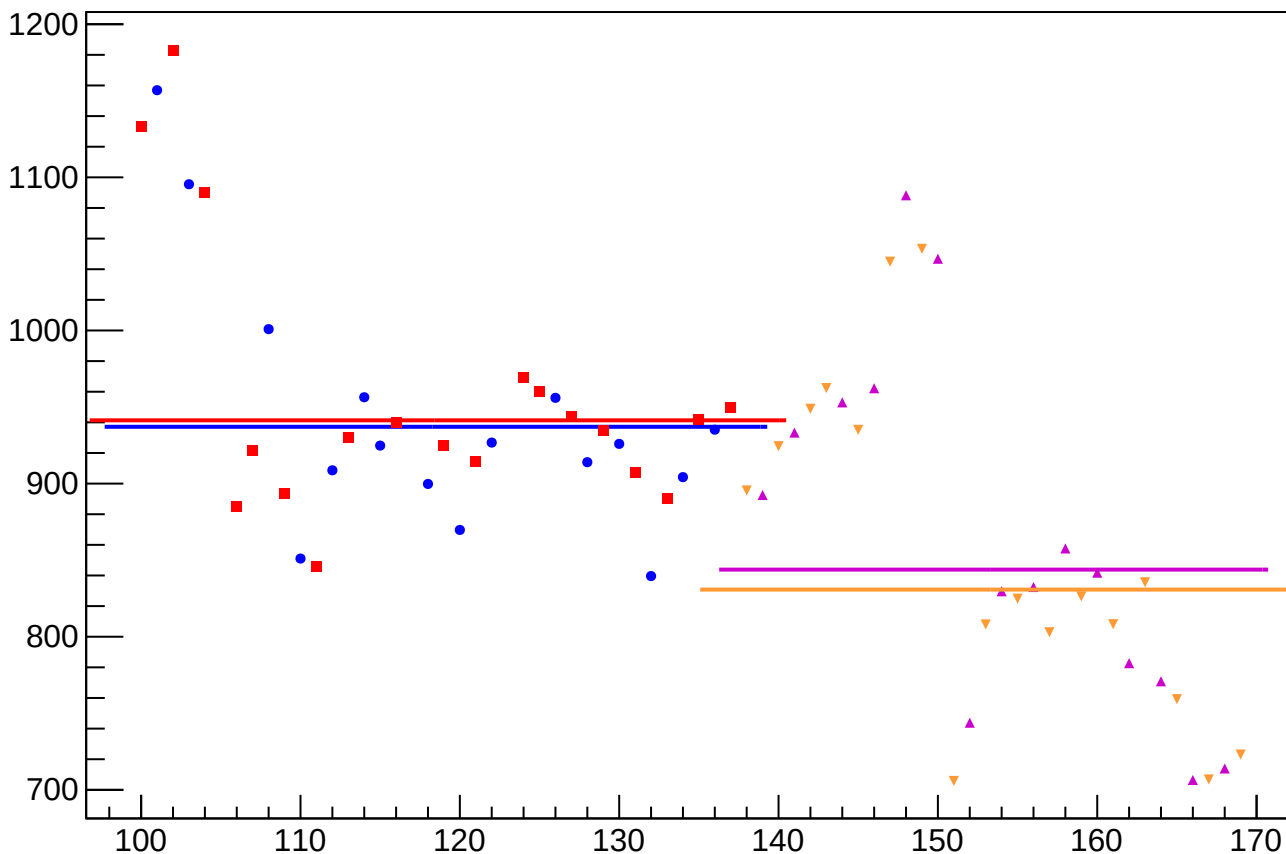
Right: -30.473 +/- 0.245 χ^2/NDF : 59456.9/34

In: 15.511 +/- 0.199 χ^2/NDF : 123242.5/30

Out: -4.588 +/- 0.190 χ^2/NDF : 23181.0/35

All: 5.029 +/- 0.137 χ^2/NDF : 151756.5/66

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 937.097 $\pm$ 0.247 χ^2 /NDF: 104660.4/15

Left Out: 830.782 $\pm$ 0.162 χ^2 /NDF:388221.8/16

Right Out: 941.323 $\pm$ 0.244 χ^2 /NDF: 101031.2/18

Left In: 843.827 $\pm$ 0.171 χ^2 /NDF:378173.5/14

Left: 836.939 $\pm$ 0.117 χ^2 /NDF: 769473.4/31

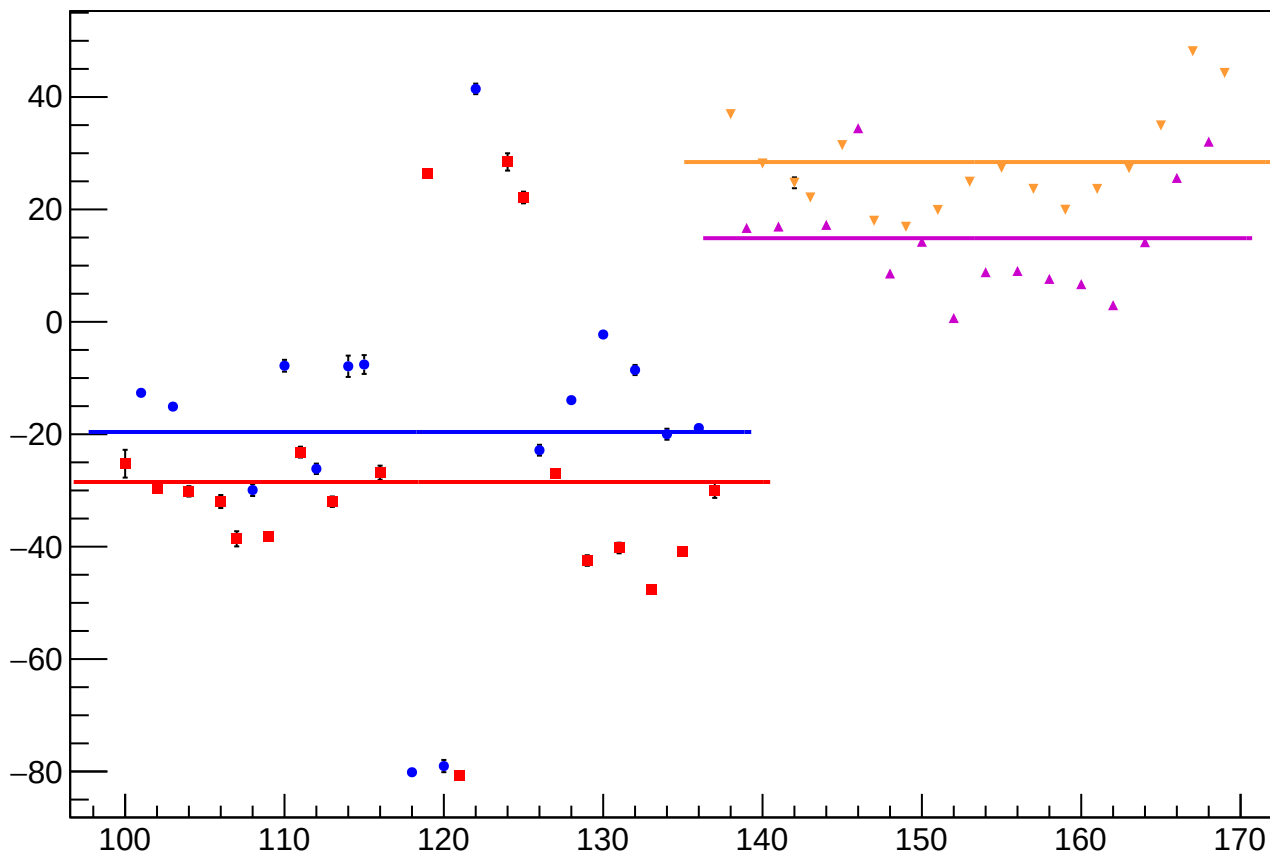
Right: 939.240 $\pm$ 0.173 χ^2 /NDF: 205839.9/34

In: 873.998 $\pm$ 0.141 χ^2 /NDF:579220.3/30

Out: 864.536 $\pm$ 0.135 χ^2 /NDF:632263.2/35

All: 869.064 $\pm$ 0.097 χ^2 /NDF: 1213847.1/66

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: -19.597±0.234 χ^2/NDF : 13170.1/15

Left Out: 28.431±0.179 χ^2/NDF : 2683.8/16

Right Out: -28.496±0.230 χ^2/NDF : 12971.2/18

Left In: 14.884±0.189 χ^2/NDF : 2824.7/14

Left: 22.043±0.130 χ^2/NDF : 8219.7/31

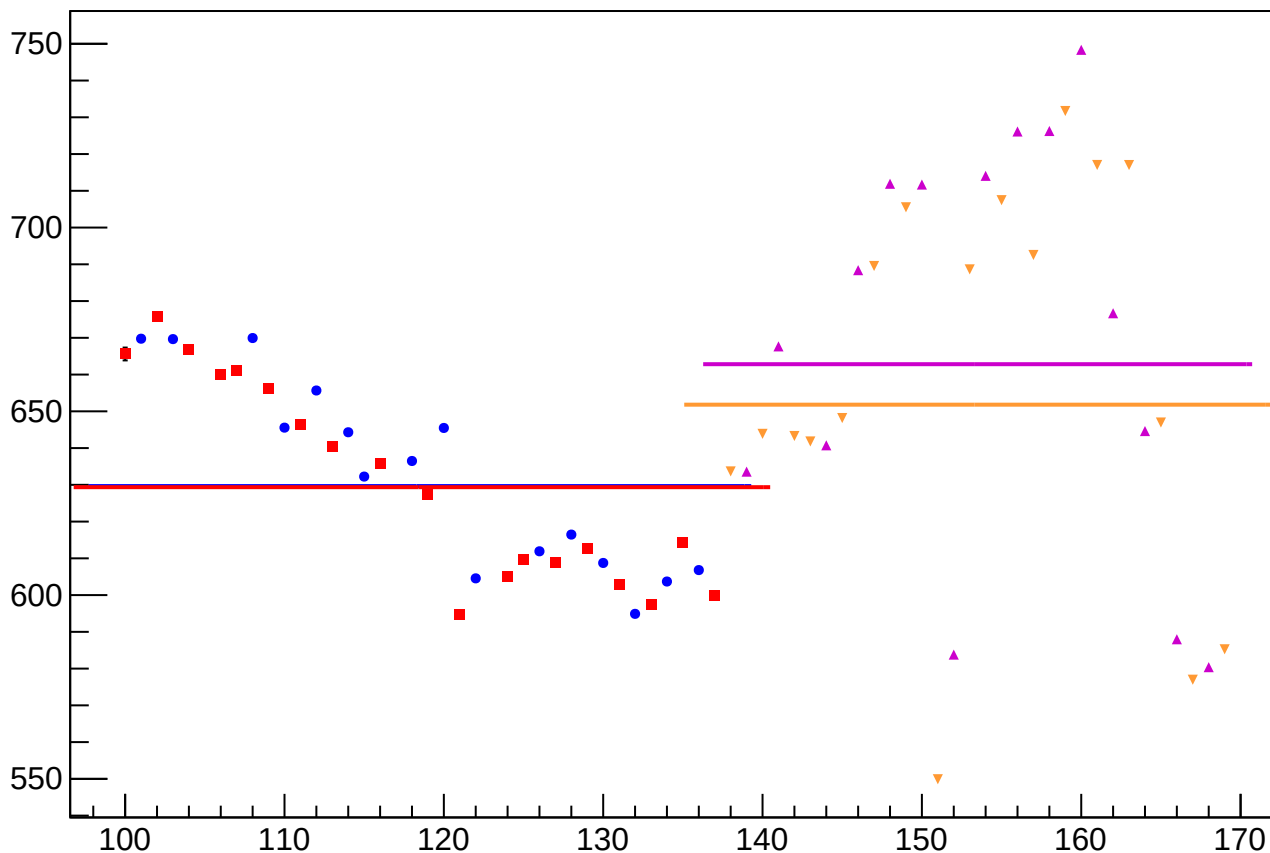
Right: -24.130±0.164 χ^2/NDF : 26877.8/34

In: 1.264±0.147 χ^2/NDF : 29125.0/30

Out: 6.971±0.141 χ^2/NDF : 53929.7/35

All: 4.238±0.102 χ^2/NDF : 83839.1/66

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 629.660 ± 0.166 χ^2/NDF : 25315.5/15

Left Out: 651.811 ± 0.126 χ^2/NDF : 191420.9/16

Right Out: 629.361 ± 0.162 χ^2/NDF : 26791.2/18

Left In: 662.824 ± 0.134 χ^2/NDF : 167558.0/14

Left: 657.004 ± 0.092 χ^2/NDF : 362563.3/31

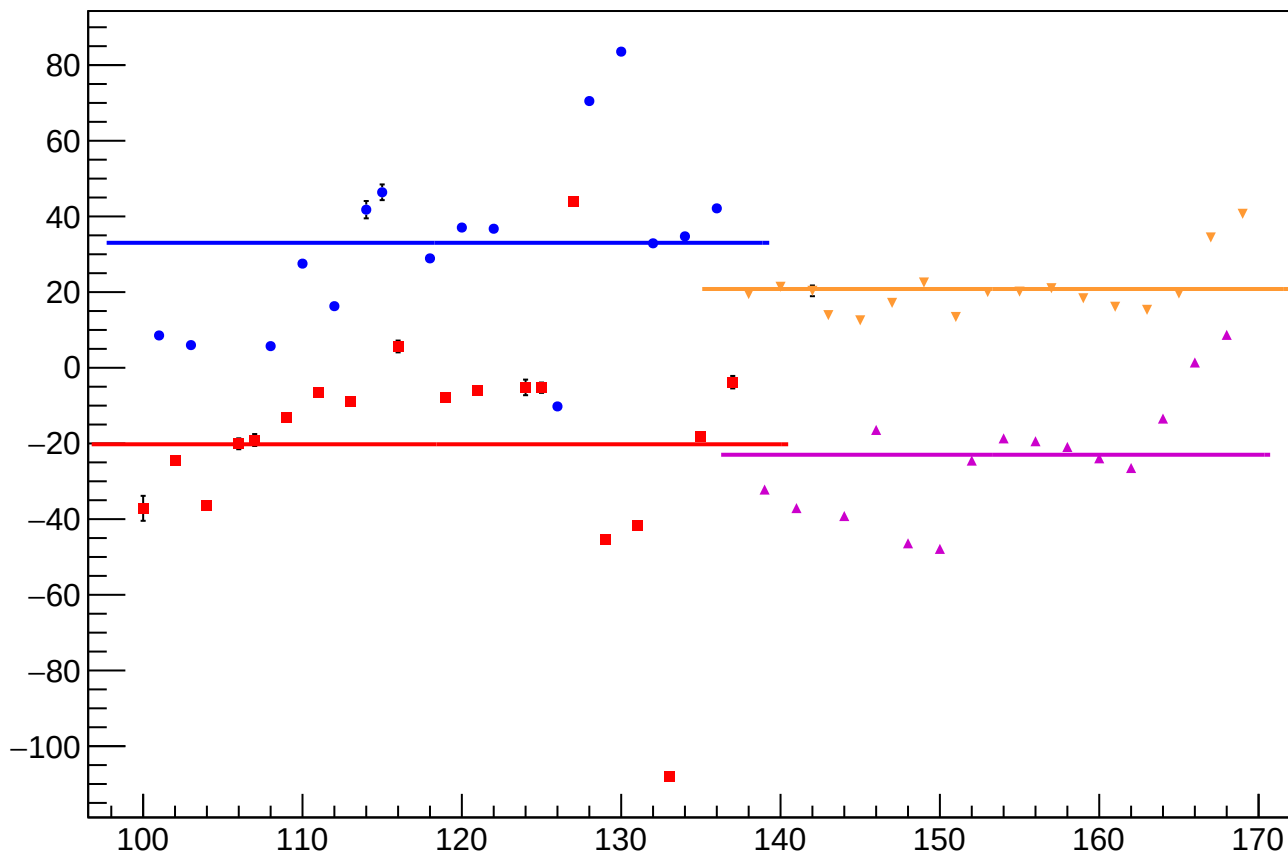
Right: 629.508 ± 0.116 χ^2/NDF : 52108.4/34

In: 649.724 ± 0.104 χ^2/NDF : 217166.5/30

Out: 643.348 ± 0.100 χ^2/NDF : 230116.7/35

All: 646.401 ± 0.072 χ^2/NDF : 449241.3/66

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.033+/-0.289 χ^2/NDF : 6700.1/15

Left Out: 20.823+/-0.254 χ^2/NDF : 902.8/16

Right Out: -20.215+/-0.286 χ^2/NDF : 11869.7/18

Left In: -22.985+/-0.267 χ^2/NDF : 3291.4/14

Left: -0.002+/-0.184 χ^2/NDF : 18355.8/31

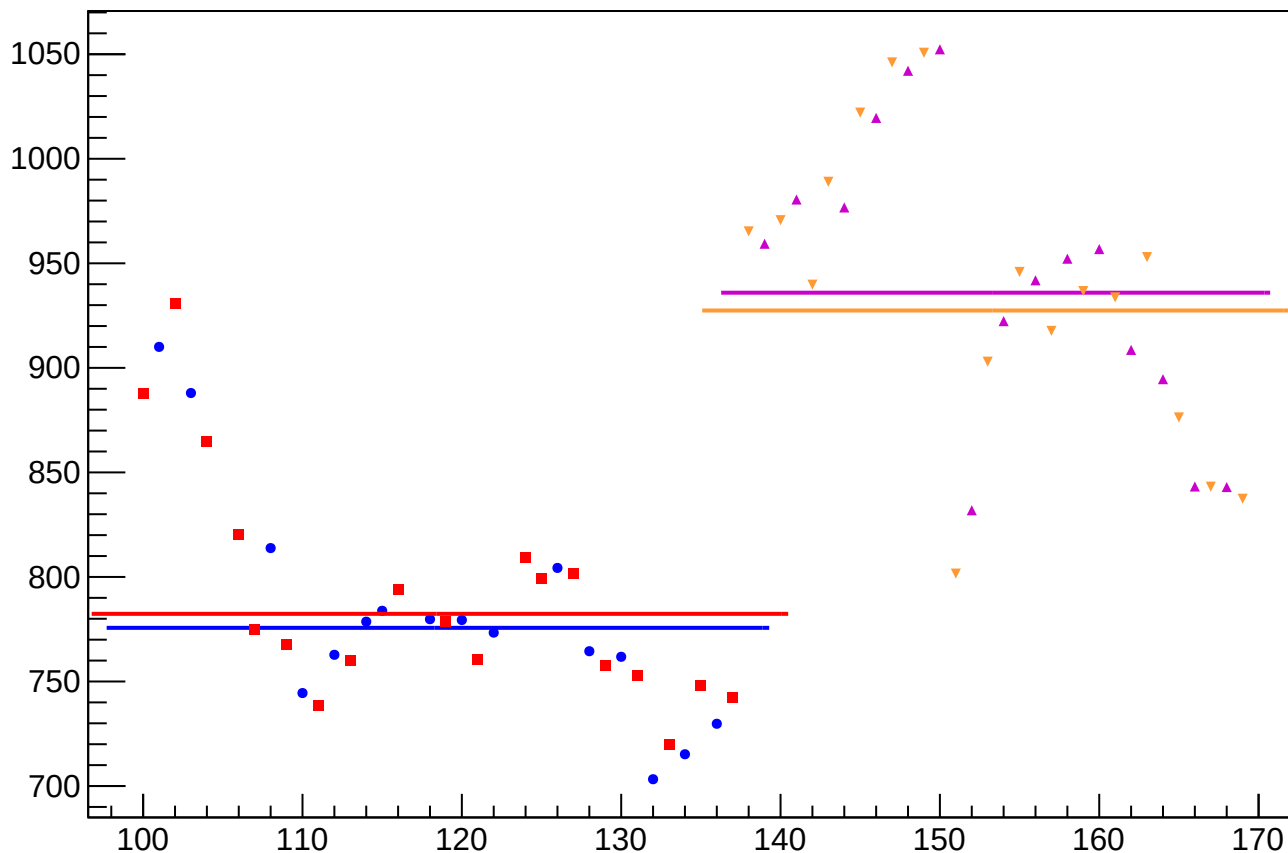
Right: 6.136+/-0.203 χ^2/NDF : 35729.1/34

In: 2.782+/-0.196 χ^2/NDF : 30294.0/30

Out: 2.739+/-0.190 χ^2/NDF : 24292.5/35

All: 2.760+/-0.136 χ^2/NDF : 54586.5/66

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 775.664 $\pm$ 0.204 χ^2 /NDF: 74660.0/15

Left Out: 927.431 $\pm$ 0.179 χ^2 /NDF: 154492.3/16

Right Out: 782.358 $\pm$ 0.202 χ^2 /NDF: 64566.3/18

Left In: 935.950 $\pm$ 0.189 χ^2 /NDF: 126887.8/14

Left: 931.481 $\pm$ 0.130 χ^2 /NDF: 282451.0/31

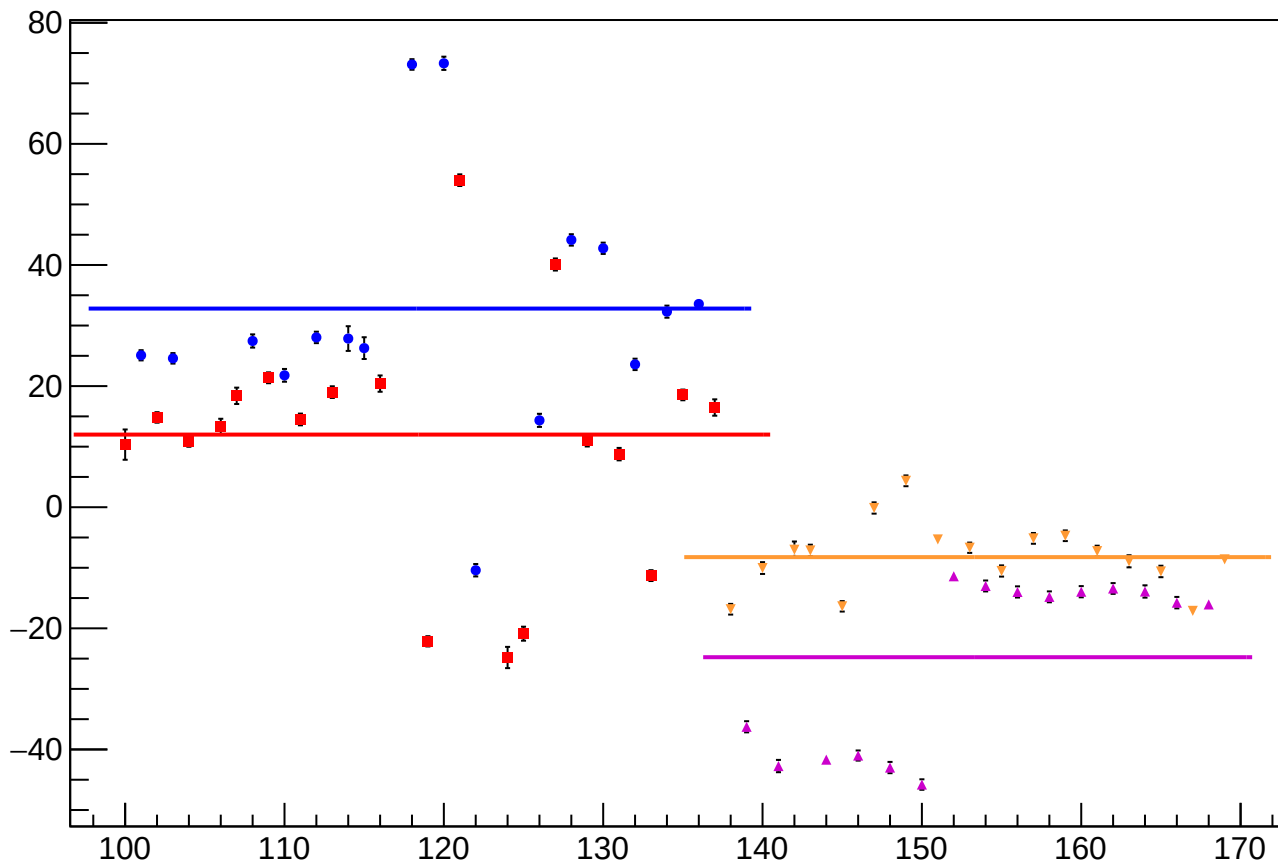
Right: 779.045 $\pm$ 0.144 χ^2 /NDF: 139768.7/34

In: 862.223 $\pm$ 0.139 χ^2 /NDF: 533992.0/30

Out: 863.503 $\pm$ 0.134 χ^2 /NDF: 506980.6/35

All: 862.883 $\pm$ 0.096 χ^2 /NDF: 1041016.7/66

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 32.804+/-0.244 χ^2/NDF : 6259.3/15

Left Out: -8.242+/-0.215 χ^2/NDF : 656.1/16

Right Out: 11.994+/-0.241 χ^2/NDF : 6559.7/18

Left In: -24.767+/-0.226 χ^2/NDF : 3668.9/14

Left: -16.099+/-0.156 χ^2/NDF : 7121.7/31

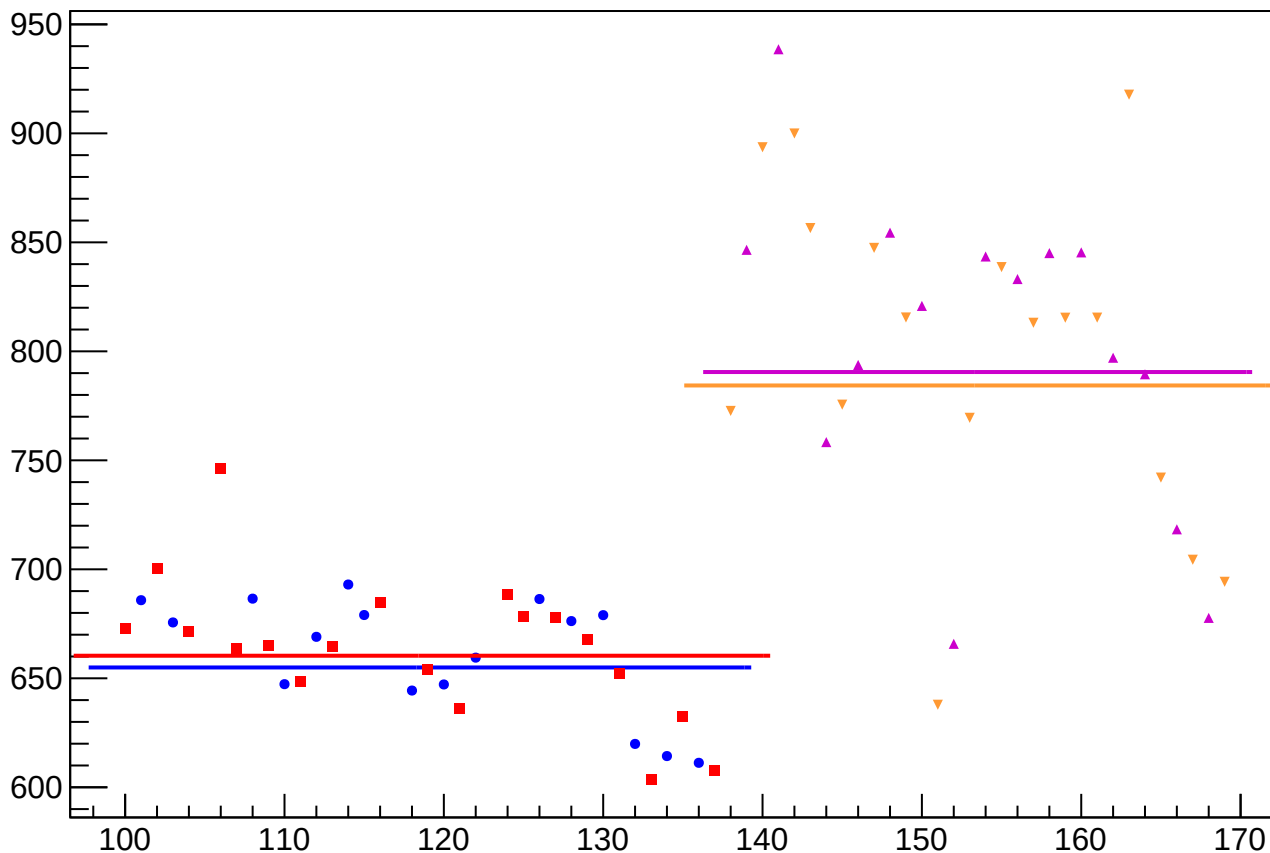
Right: 22.296+/-0.171 χ^2/NDF : 16506.5/34

In: 1.913+/-0.166 χ^2/NDF : 39917.4/30

Out: 0.743+/-0.161 χ^2/NDF : 11131.5/35

All: 1.310+/-0.115 χ^2/NDF : 51074.5/66

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 654.970 $\pm$ 0.172 χ^2 /NDF: 26744.4/15

Left Out: 784.341 $\pm$ 0.152 χ^2 /NDF: 254207.6/16

Right Out: 660.355 $\pm$ 0.171 χ^2 /NDF: 30417.5/18

Left In: 790.504 $\pm$ 0.160 χ^2 /NDF: 209466.3/14

Left: 787.271 $\pm$ 0.110 χ^2 /NDF: 464451.7/31

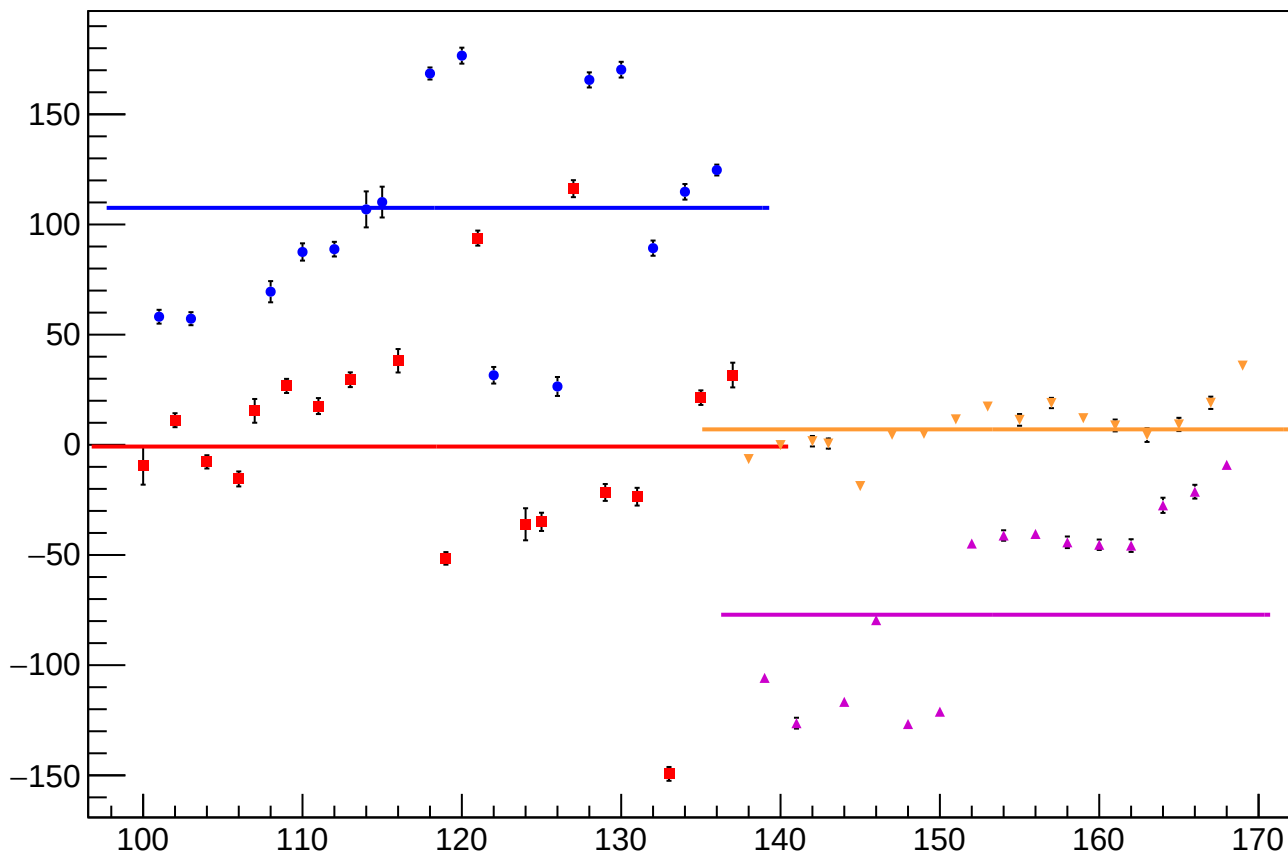
Right: 657.689 $\pm$ 0.121 χ^2 /NDF: 57655.9/34

In: 727.693 $\pm$ 0.117 χ^2 /NDF: 568631.6/30

Out: 729.291 $\pm$ 0.114 χ^2 /NDF: 578633.5/35

All: 728.517 $\pm$ 0.082 χ^2 /NDF: 1147360.9/66

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 107.548 ± 0.885 χ^2/NDF : 2955.8/15

Left Out: 7.014 ± 0.541 χ^2/NDF : 476.5/16

Right Out: -0.788 ± 0.861 χ^2/NDF : 4763.9/18

Left In: -77.112 ± 0.560 χ^2/NDF : 5174.2/14

Left: -33.635 ± 0.389 χ^2/NDF : 17328.7/31

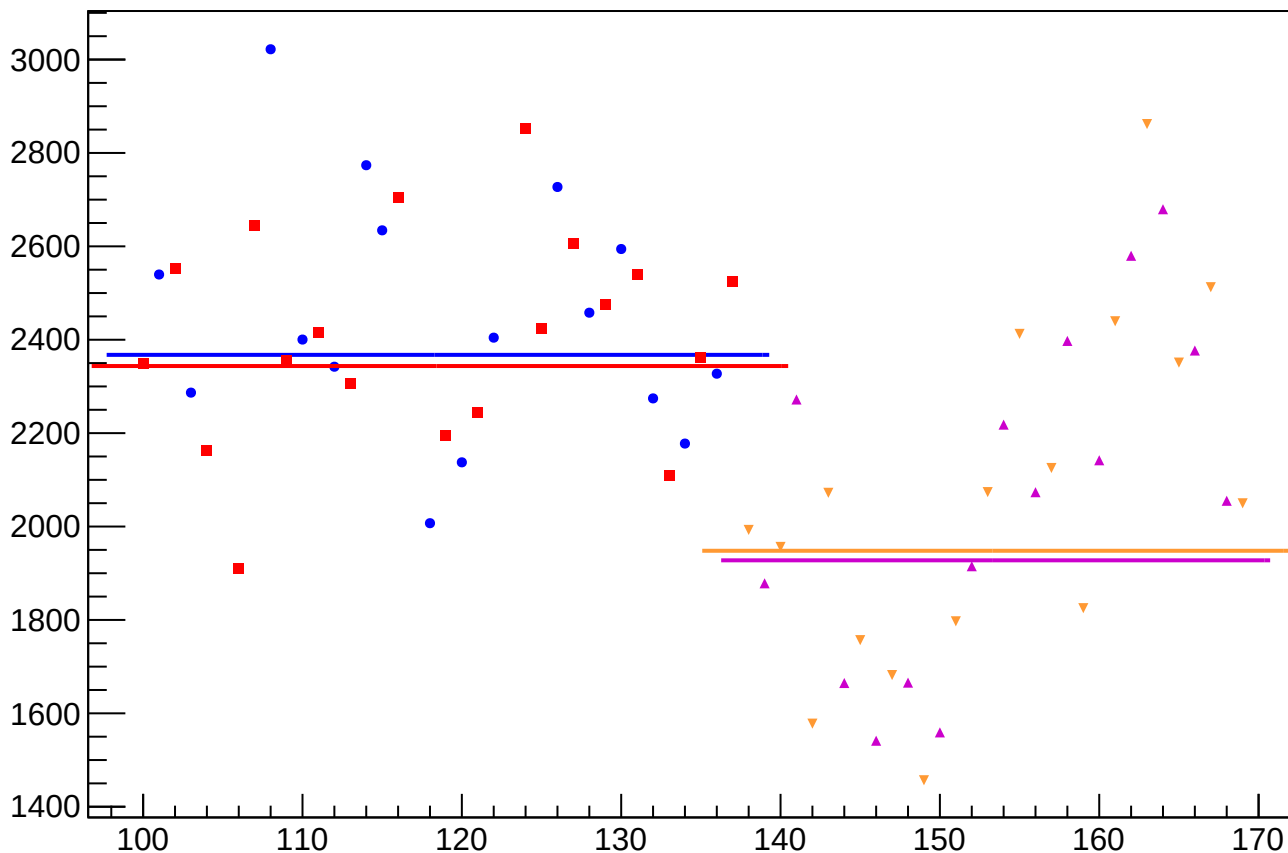
Right: 51.859 ± 0.617 χ^2/NDF : 15416.7/34

In: -24.392 ± 0.473 χ^2/NDF : 39213.5/30

Out: 4.804 ± 0.458 χ^2/NDF : 5299.3/35

All: -9.326 ± 0.329 χ^2/NDF : 46478.3/66

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 2367.633+/-0.626 χ^2/NDF : 126764.1/15

Left Out: 1948.114+/-0.383 χ^2/NDF : 761255.6/16

Right Out: 2343.704+/-0.609 χ^2/NDF : 112274.4/18

Left In: 1927.637+/-0.396 χ^2/NDF : 700585.7/14

Left: 1938.220+/-0.275 χ^2/NDF : 1463225.1/31

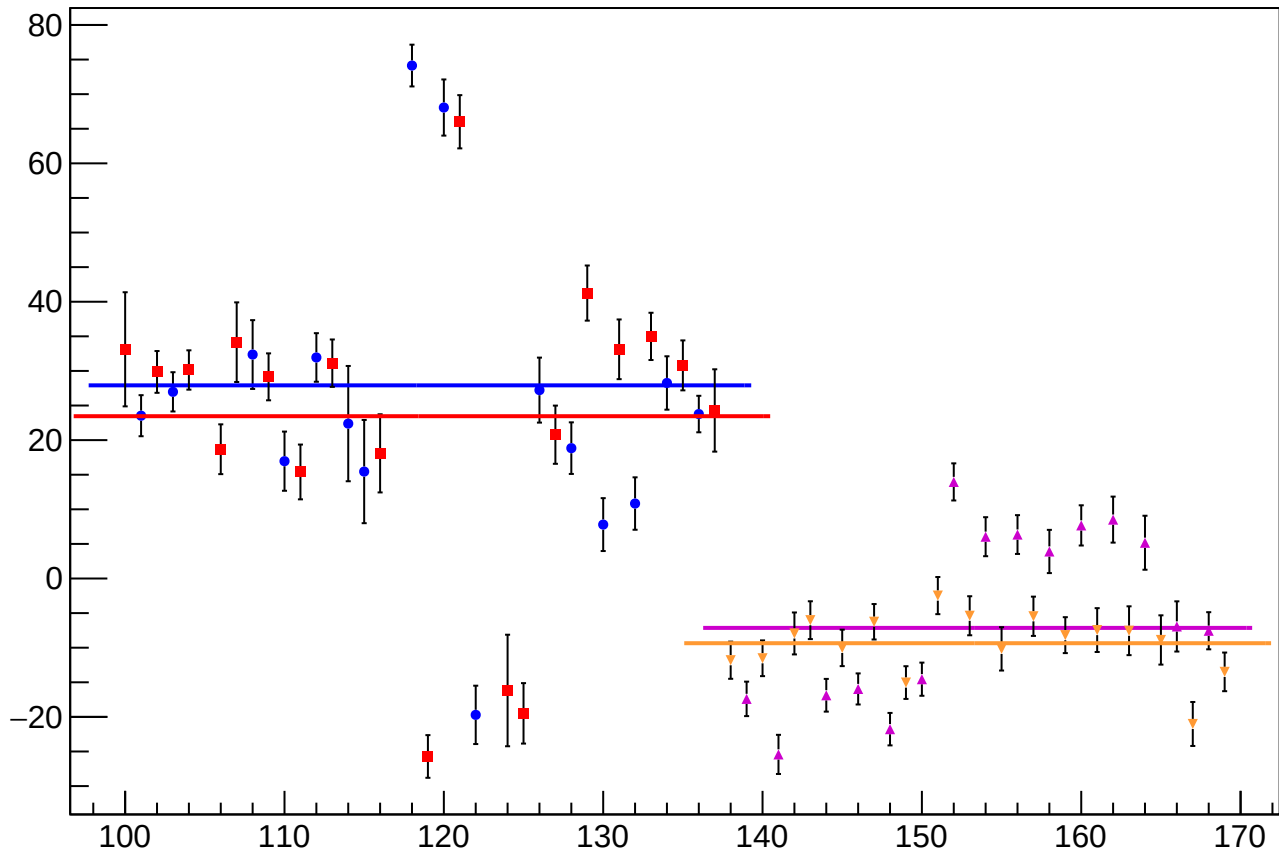
Right: 2355.333+/-0.436 χ^2/NDF : 239789.5/34

In: 2053.256+/-0.335 χ^2/NDF : 1180298.5/30

Out: 2060.161+/-0.324 χ^2/NDF : 1176269.6/35

All: 2056.819+/-0.233 χ^2/NDF : 2356788.0/66

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 27.916 ± 0.937 $\chi^2/\text{NDF}: 530.7/15$

Left Out: -9.351 ± 0.685 $\chi^2/\text{NDF}: 37.6/16$

Right Out: 23.457 ± 0.903 $\chi^2/\text{NDF}: 567.9/18$

Left In: -7.138 ± 0.707 $\chi^2/\text{NDF}: 317.1/14$

Left: -8.279 ± 0.492 $\chi^2/\text{NDF}: 359.7/31$

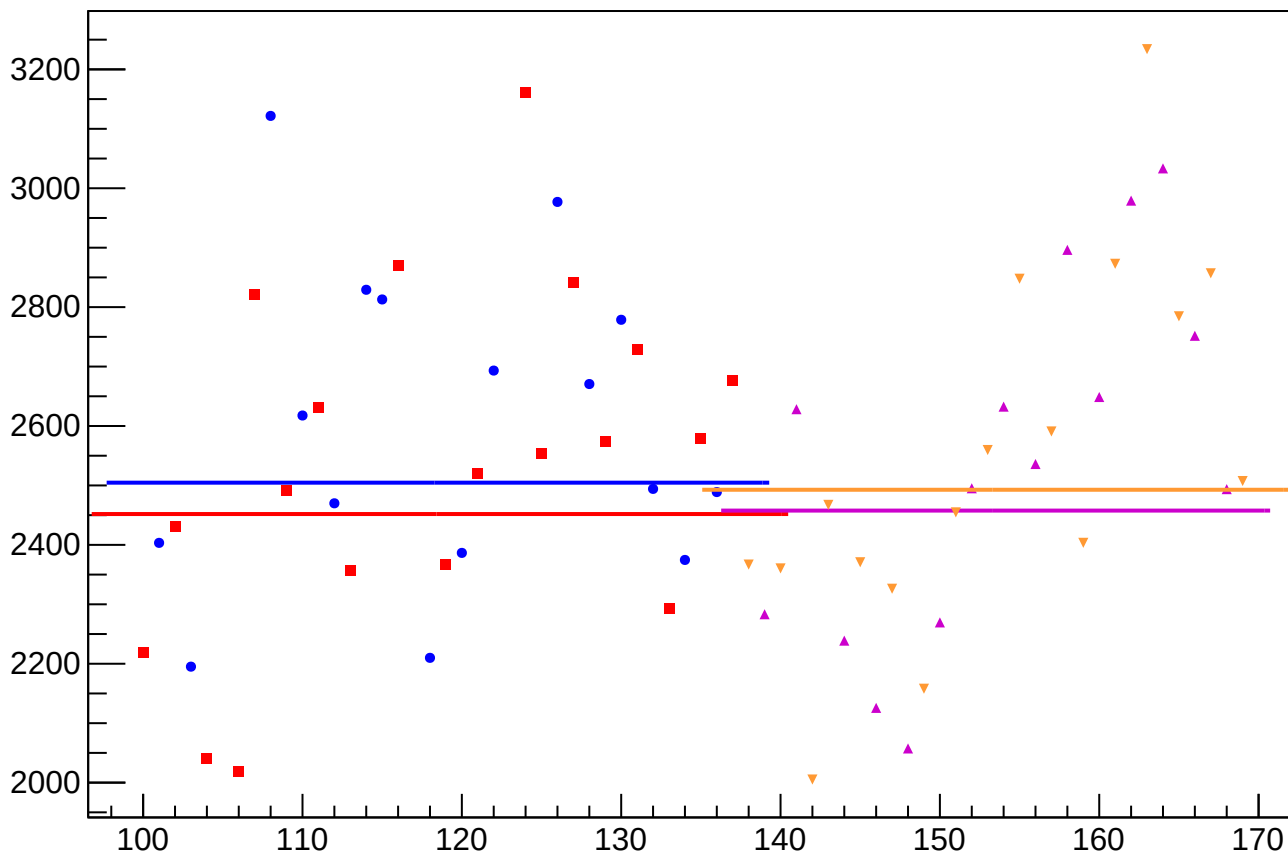
Right: 25.604 ± 0.650 $\chi^2/\text{NDF}: 1110.3/34$

In: 5.574 ± 0.564 $\chi^2/\text{NDF}: 1740.3/30$

Out: 2.637 ± 0.546 $\chi^2/\text{NDF}: 1443.9/35$

All: 4.057 ± 0.392 $\chi^2/\text{NDF}: 3198.2/66$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2504.654 $\pm$ 0.662 χ^2 /NDF: 126599.1/15

Left Out: 2492.723 $\pm$ 0.484 χ^2 /NDF: 303227.7/16

Right Out: 2451.880 $\pm$ 0.638 χ^2 /NDF: 153237.1/18

Left In: 2457.686 $\pm$ 0.500 χ^2 /NDF: 312386.5/14

Left: 2475.751 $\pm$ 0.348 χ^2 /NDF: 618149.5/31

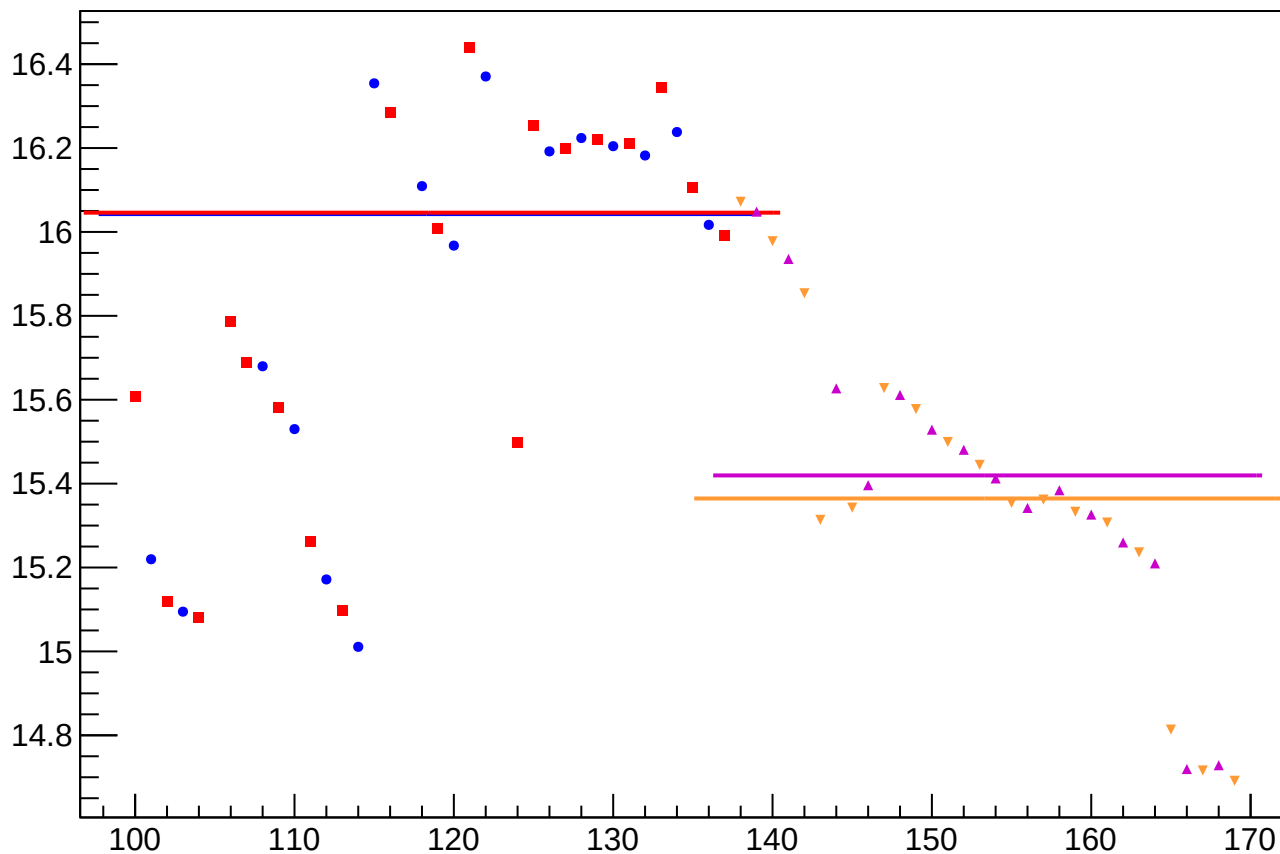
Right: 2477.287 $\pm$ 0.460 χ^2 /NDF: 283127.8/34

In: 2474.719 $\pm$ 0.399 χ^2 /NDF: 442190.0/30

Out: 2477.799 $\pm$ 0.386 χ^2 /NDF: 459063.6/35

All: 2476.310 $\pm$ 0.277 χ^2 /NDF: 901284.4/66

yield_sam1_mean vs Slug, Sign Corrected



Right In: 16.043+/-0.000 χ^2/NDF : 2840540588.4/15

Left Out: 15.365+/-0.000 χ^2/NDF : 16963754165.0/16

Right Out: 16.046+/-0.000 χ^2/NDF : 3552158387.5/18

Left In: 15.420+/-0.000 χ^2/NDF : 12159886096.5/14

Left: 15.390+/-0.000 χ^2/NDF : 29278746976.2/31

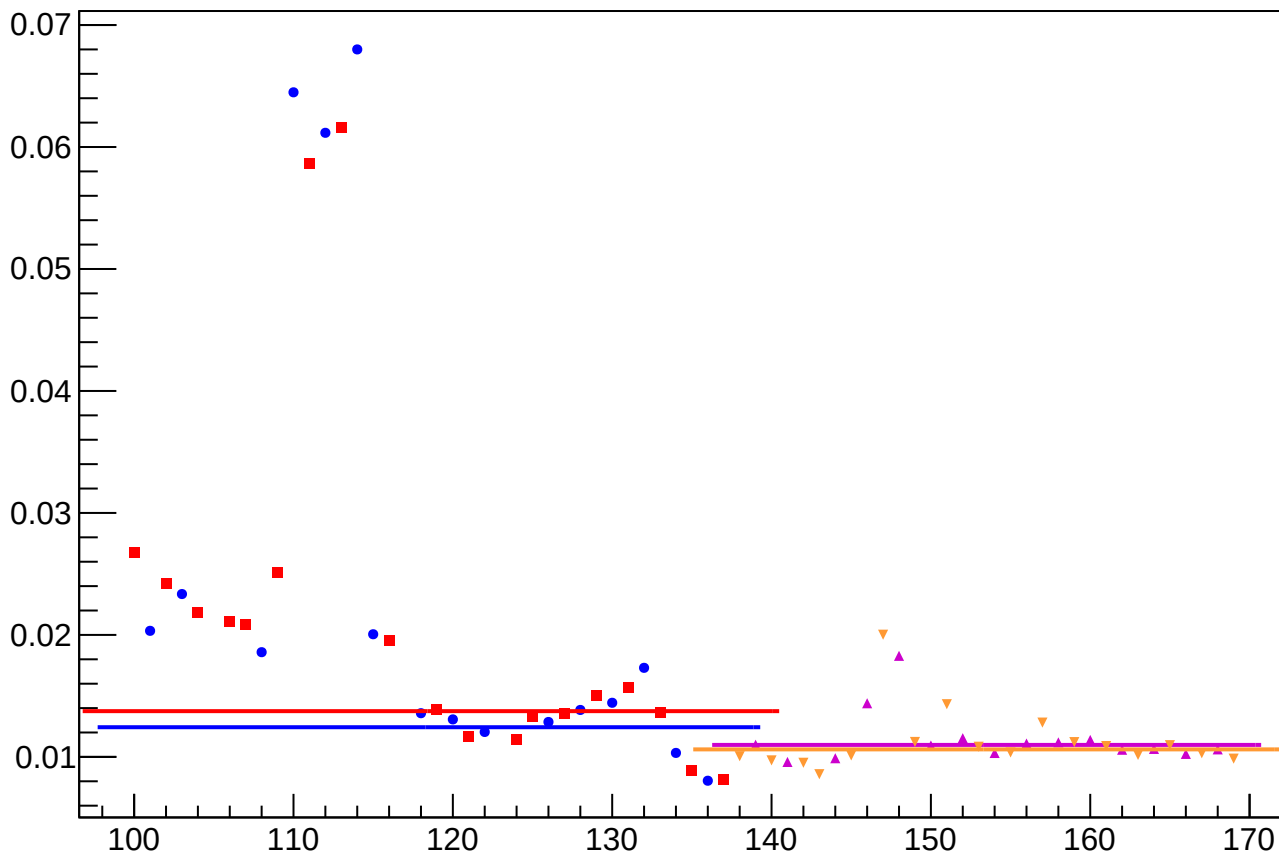
Right: 16.044+/-0.000 χ^2/NDF : 6392885915.7/34

In: 15.588+/-0.000 χ^2/NDF : 25076992120.0/30

Out: 15.510+/-0.000 χ^2/NDF : 31503442421.0/35

All: 15.548+/-0.000 χ^2/NDF : 56999148564.3

yield_sam1_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2316842.7/15

Left Out: 0.011+/-0.000 χ^2/NDF :648454.4/16

Right Out: 0.014+/-0.000 χ^2/NDF : 2230614.9/18

Left In: 0.011+/-0.000 χ^2/NDF :423152.1/14

Left: 0.011+/-0.000 χ^2/NDF : 1085475.5/31

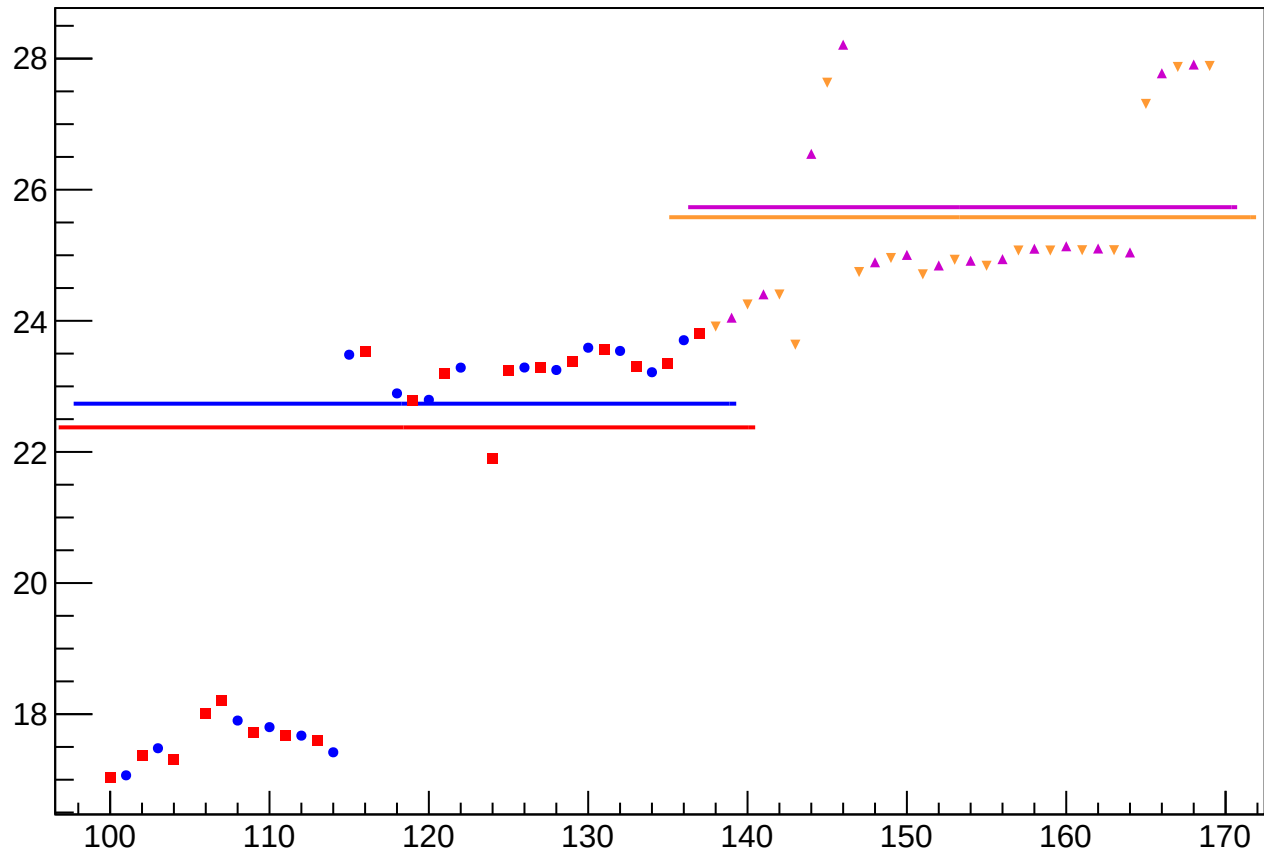
Right: 0.013+/-0.000 χ^2/NDF : 4604105.9/34

In: 0.011+/-0.000 χ^2/NDF :2849179.5/30

Out: 0.011+/-0.000 χ^2/NDF :3344381.5/35

All: 0.011+/-0.000 χ^2/NDF : 6194698.4/66

yield_sam2_mean vs Slug, Sign Corrected



Right In: 22.736+/-0.000 χ^2/NDF : 1220713728.0/15

Left Out: 25.580+/-0.000 χ^2/NDF : 1956393690.3/16

Right Out: 22.375+/-0.000 χ^2/NDF : 1215661430.7/18

Left In: 25.733+/-0.000 χ^2/NDF : 1320455448.8/14

Left: 25.651+/-0.000 χ^2/NDF : 3286643562.5/31

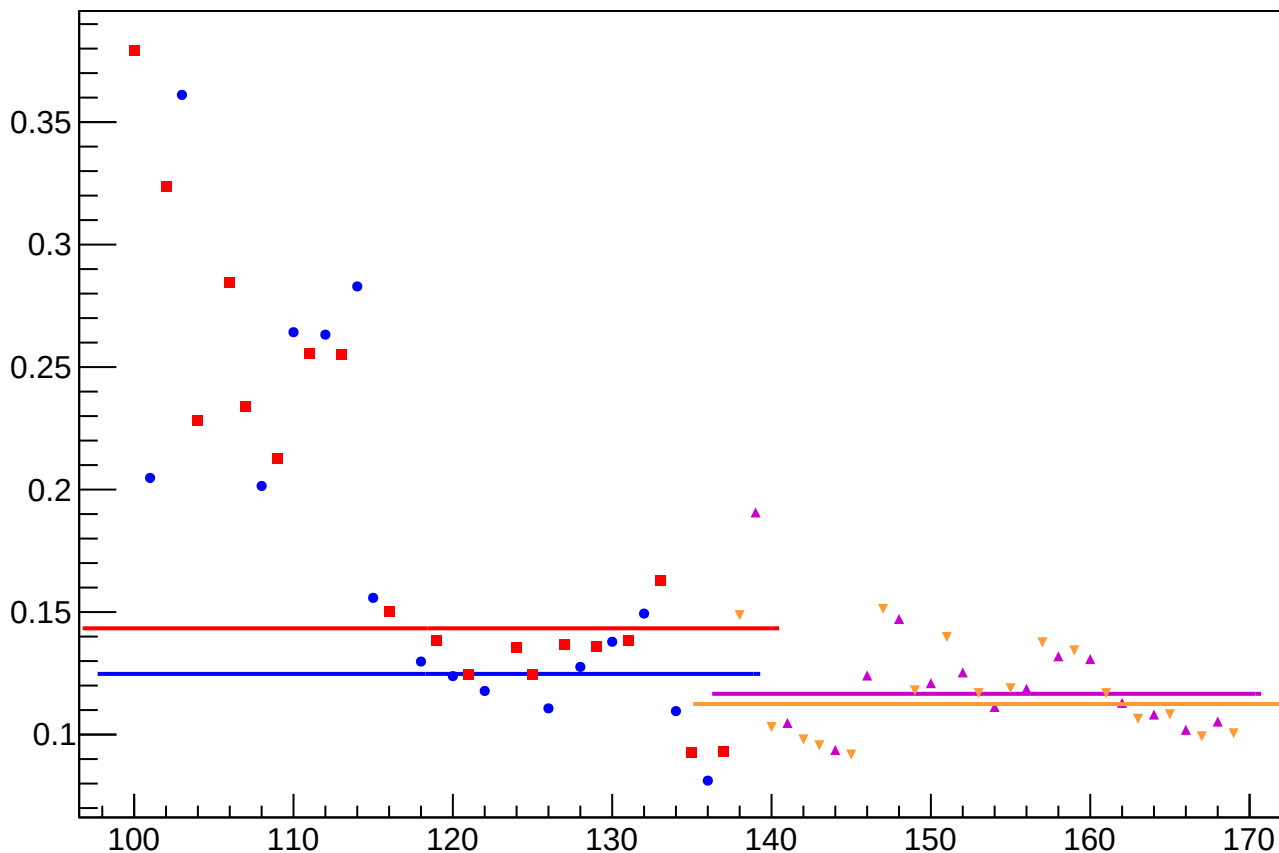
Right: 22.574+/-0.000 χ^2/NDF : 2456494994.8/34

In: 24.816+/-0.000 χ^2/NDF : 4683043060.8/30

Out: 24.823+/-0.000 χ^2/NDF : 5365697652.3/35

All: 24.820+/-0.000 χ^2/NDF : 10048767168.0

yield_sam2_rms vs Slug, Sign Corrected



Right In: 0.125+/-0.000 χ^2/NDF : 1749818.7/15

Left Out: 0.112+/-0.000 χ^2/NDF : 526738.6/16

Right Out: 0.143+/-0.000 χ^2/NDF : 1570103.9/18

Left In: 0.117+/-0.000 χ^2/NDF : 529359.9/14

Left: 0.114+/-0.000 χ^2/NDF : 1070624.9/31

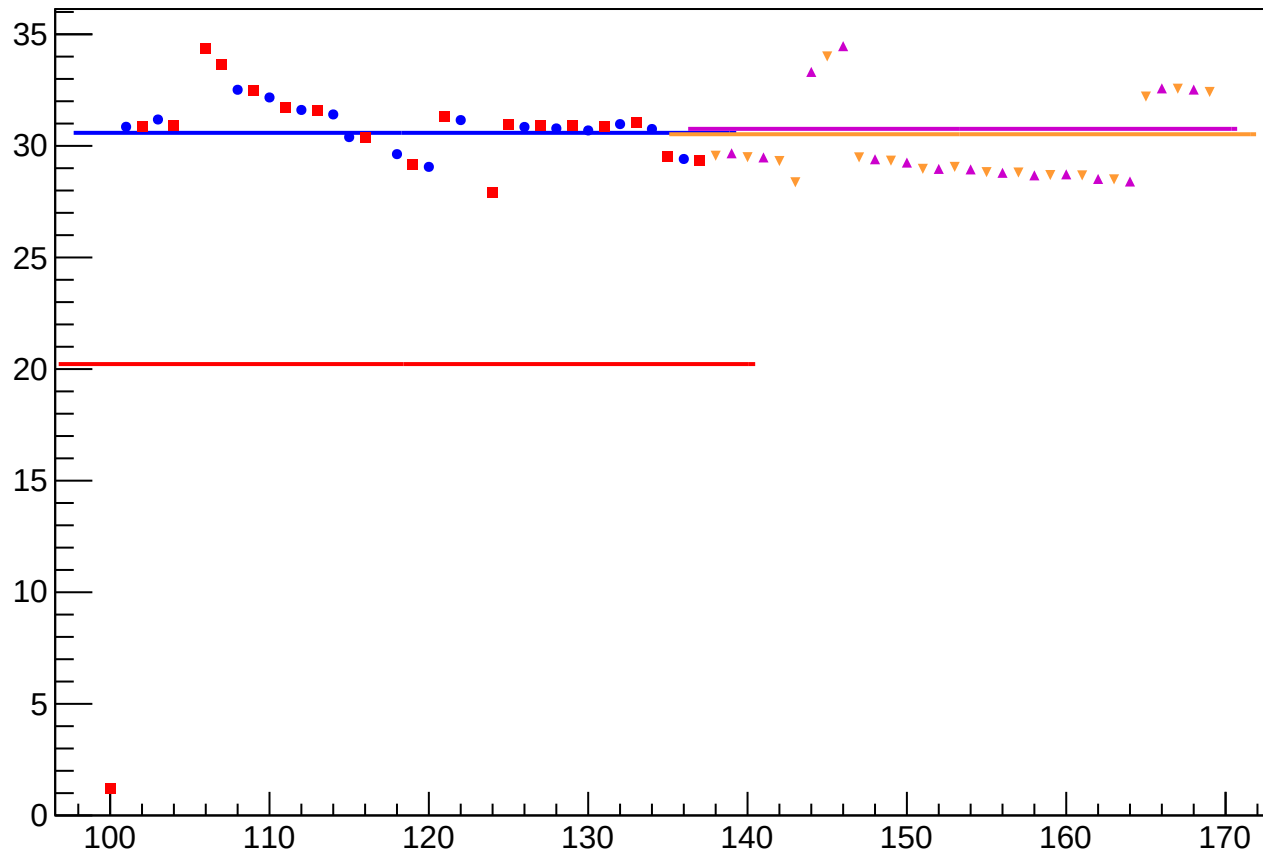
Right: 0.133+/-0.000 χ^2/NDF : 3426627.7/34

In: 0.119+/-0.000 χ^2/NDF : 2310678.3/30

Out: 0.120+/-0.000 χ^2/NDF : 2504504.4/35

All: 0.119+/-0.000 χ^2/NDF : 4815665.5/66

yield_sam3_mean vs Slug, Sign Corrected



Right In: 30.585 $\pm$ 0.000

χ^2 /NDF: 652266844.4/15

Left: 30.637 $\pm$ 0.000

χ^2 /NDF: 21176350996.5/31

Left Out: 30.522 $\pm$ 0.000

χ^2 /NDF: 10027681458.8/16

Right: 24.530 $\pm$ 0.000

χ^2 /NDF: 270460315915.7/34

Right Out: 20.224 $\pm$ 0.000

χ^2 /NDF: 221262816636.2/18

In: 30.718 $\pm$ 0.000

χ^2 /NDF: 11749589910.4/30

Out: 27.412 $\pm$ 0.000

χ^2 /NDF: 311835340339.9/35

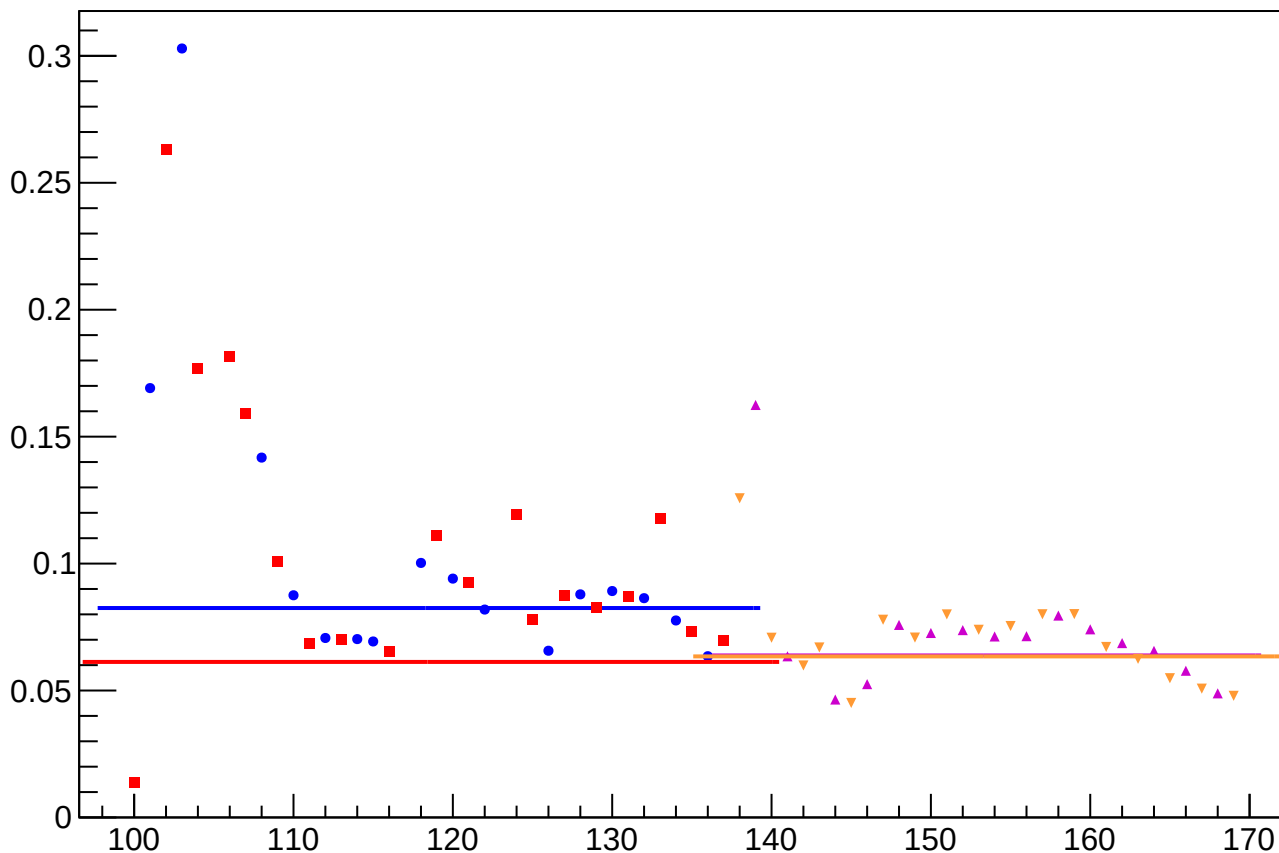
Left In: 30.763 $\pm$ 0.000

χ^2 /NDF: 11078913237.6/14

All: 28.930 $\pm$ 0.000

χ^2 /NDF: 341669417951.0/100

yield_sam3_rms vs Slug, Sign Corrected



Right In: 0.082 $\pm$ 0.000 χ^2 /NDF: 1261492.7/15

Left Out: 0.063 $\pm$ 0.000 χ^2 /NDF:1085288.2/16

Right Out: 0.061 $\pm$ 0.000 χ^2 /NDF: 4014305.3/18

Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:1189622.3/14

Left: 0.064 $\pm$ 0.000 χ^2 /NDF: 2275258.2/31

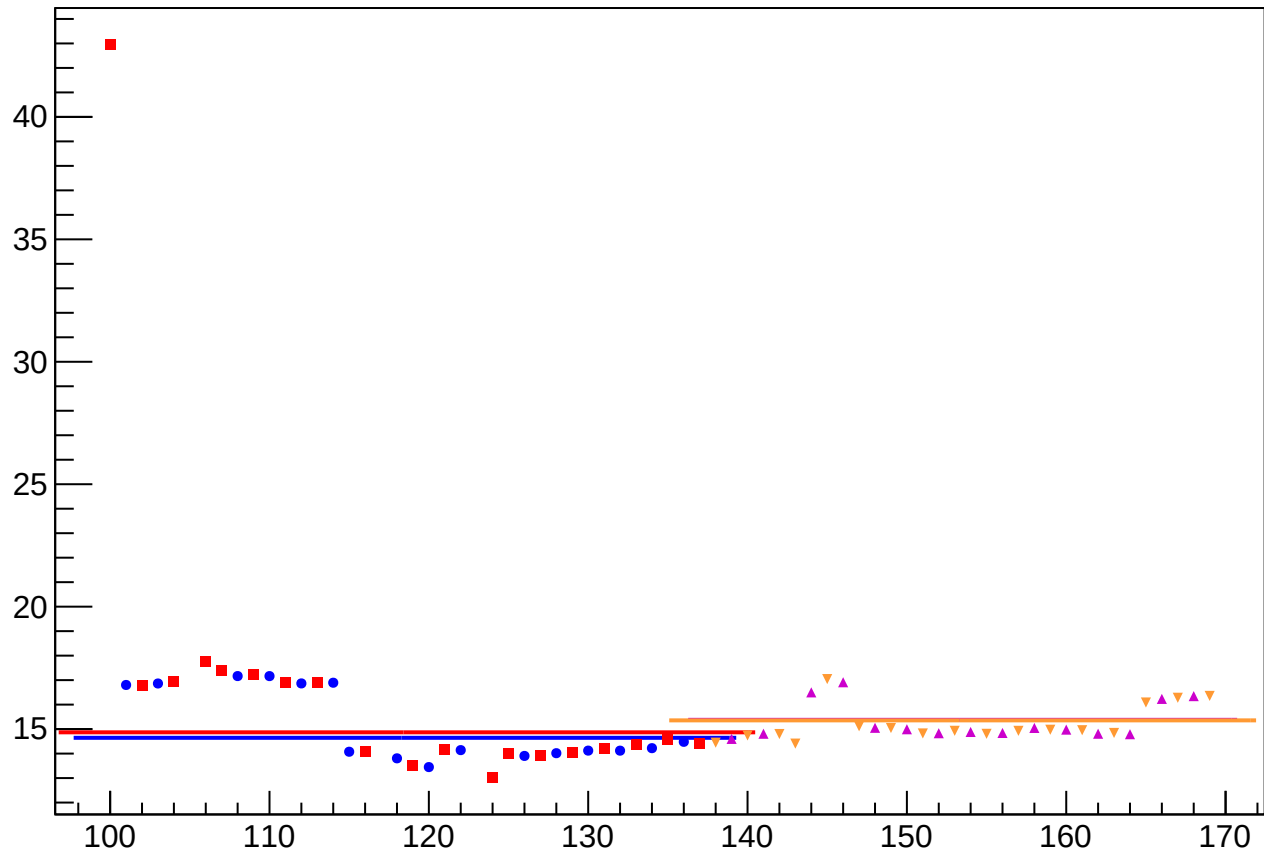
Right: 0.070 $\pm$ 0.000 χ^2 /NDF: 5683622.8/34

In: 0.069 $\pm$ 0.000 χ^2 /NDF:2854530.8/30

Out: 0.063 $\pm$ 0.000 χ^2 /NDF:5106782.8/35

All: 0.065 $\pm$ 0.000 χ^2 /NDF: 8071162.3/66

yield_sam4_mean vs Slug, Sign Corrected



Right In: 14.644+/-0.000

χ^2/NDF : 1193913109.5/15

Left: 15.367+/-0.000

χ^2/NDF : 2912835874.5/31

Left Out: 15.356+/-0.000

χ^2/NDF : 1627409163.6/16

Right: 14.749+/-0.000

χ^2/NDF : 2945878863.1/34

Right Out: 14.868+/-0.000

χ^2/NDF : 1730040006.8/18

In: 15.164+/-0.000

χ^2/NDF : 2836928014.1/30

Out: 15.238+/-0.000

χ^2/NDF : 3505782721.3/35

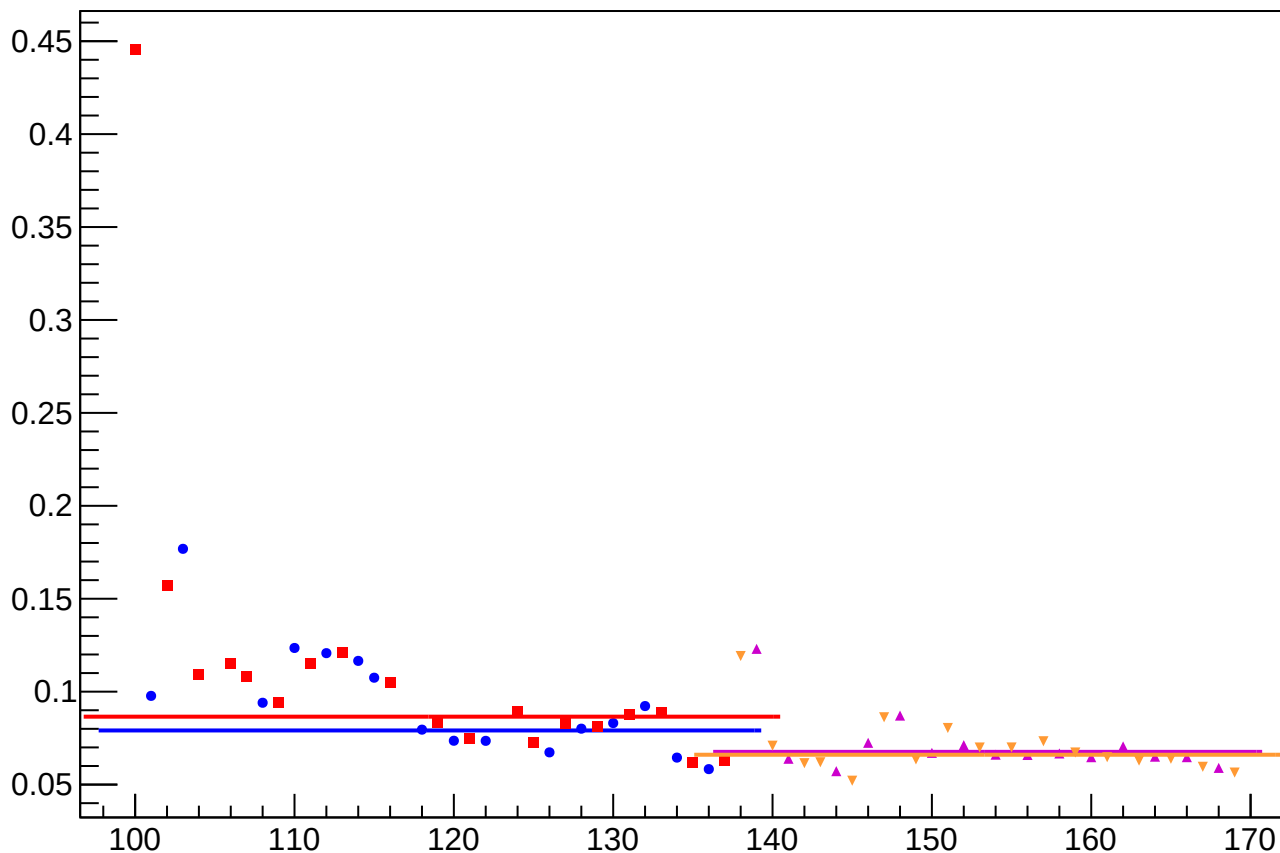
Left In: 15.378+/-0.000

χ^2/NDF : 1284853318.9/14

All: 15.202+/-0.000

χ^2/NDF : 6351764113.2/6

yield_sam4_rms vs Slug, Sign Corrected



Right In: 0.079 $\pm$ 0.000 χ^2/NDF : 918198.7/15

Left Out: 0.066 $\pm$ 0.000 χ^2/NDF : 608555.7/16

Right Out: 0.087 $\pm$ 0.000 χ^2/NDF : 793345.8/18

Left In: 0.068 $\pm$ 0.000 χ^2/NDF : 512999.8/14

Left: 0.067 $\pm$ 0.000 χ^2/NDF : 1127359.5/31

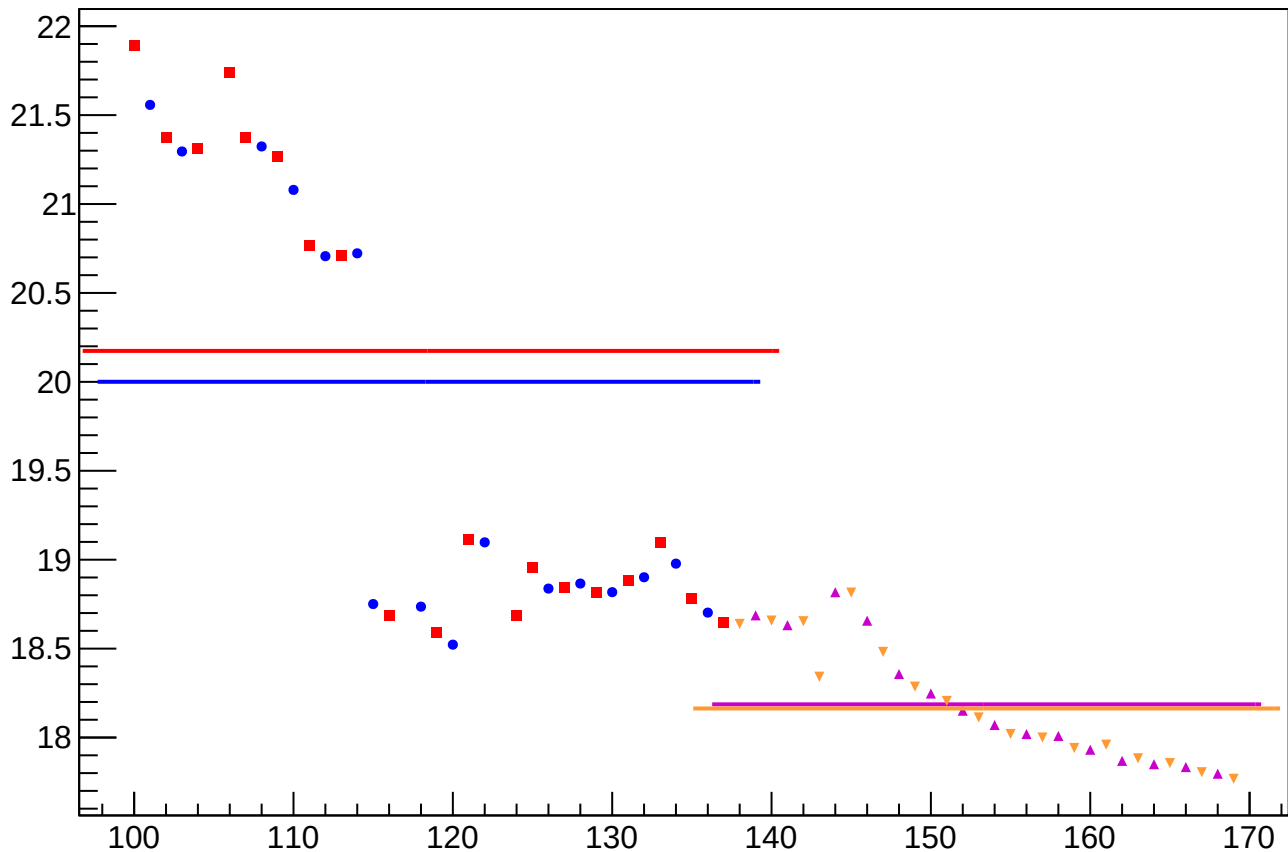
Right: 0.083 $\pm$ 0.000 χ^2/NDF : 1759748.9/34

In: 0.071 $\pm$ 0.000 χ^2/NDF : 1607601.1/30

Out: 0.071 $\pm$ 0.000 χ^2/NDF : 1924055.9/35

All: 0.071 $\pm$ 0.000 χ^2/NDF : 3531664.5/66

yield_sam5_mean vs Slug, Sign Corrected



Right In: 20.001 $\pm$ 0.000 χ^2 /NDF: 10878846617.7/15

Left Out: 18.163 $\pm$ 0.000 χ^2 /NDF: 1382795457.0/16

Right Out: 20.174 $\pm$ 0.000 χ^2 /NDF: 10426322430.8/18

Left In: 18.187 $\pm$ 0.000 χ^2 /NDF: 1274904630.4/14

Left: 18.174 $\pm$ 0.000 χ^2 /NDF: 2660948161.4/31

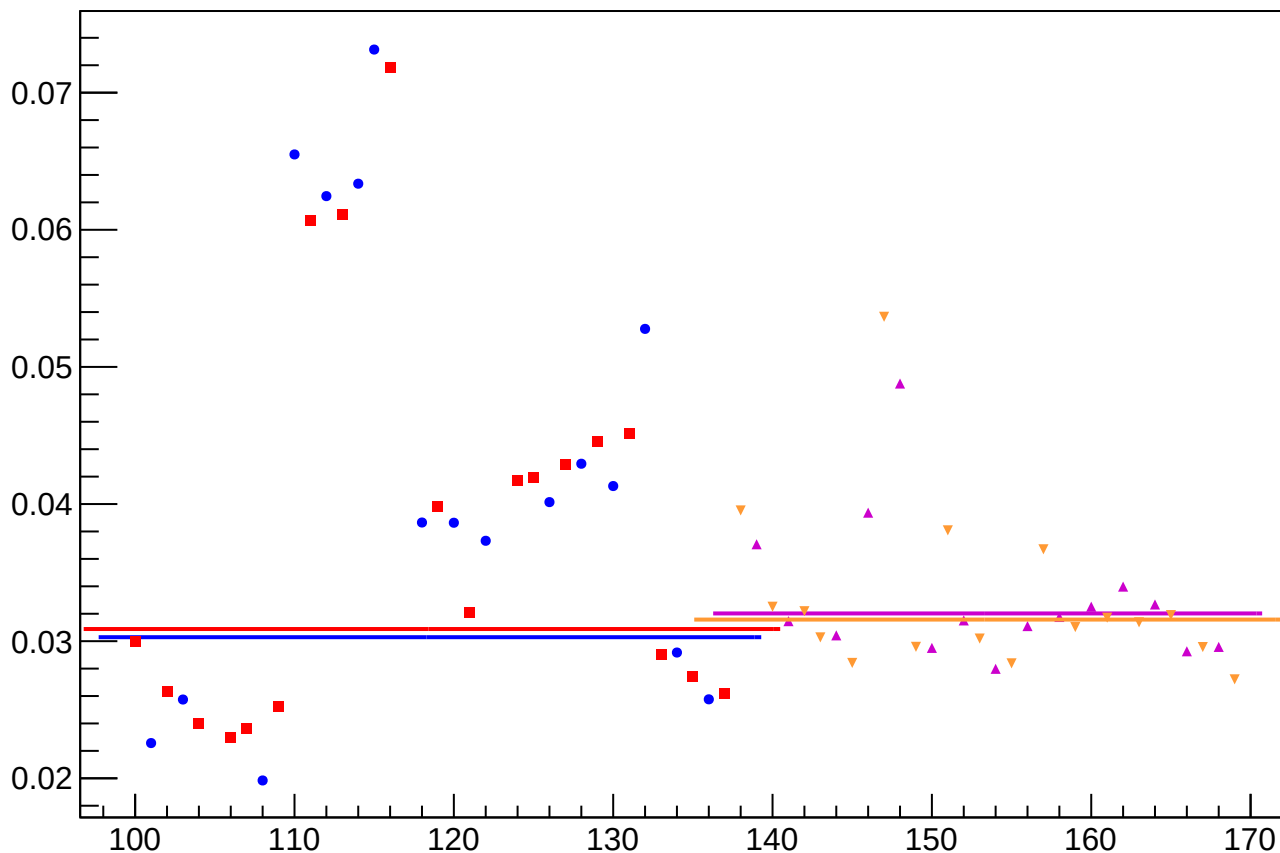
Right: 20.087 $\pm$ 0.000 χ^2 /NDF: 21403297693.7/34

In: 18.846 $\pm$ 0.000 χ^2 /NDF: 25766106746.2/30

Out: 18.846 $\pm$ 0.000 χ^2 /NDF: 29220963986.1/35

All: 18.846 $\pm$ 0.000 χ^2 /NDF: 54987070859.1

yield_sam5_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 1447374.9/15

Left Out: 0.032 $\pm$ 0.000 χ^2 /NDF:510660.1/16

Right Out: 0.031 $\pm$ 0.000 χ^2 /NDF: 1204729.6/18

Left In: 0.032 $\pm$ 0.000 χ^2 /NDF:355958.7/14

Left: 0.032 $\pm$ 0.000 χ^2 /NDF: 869024.9/31

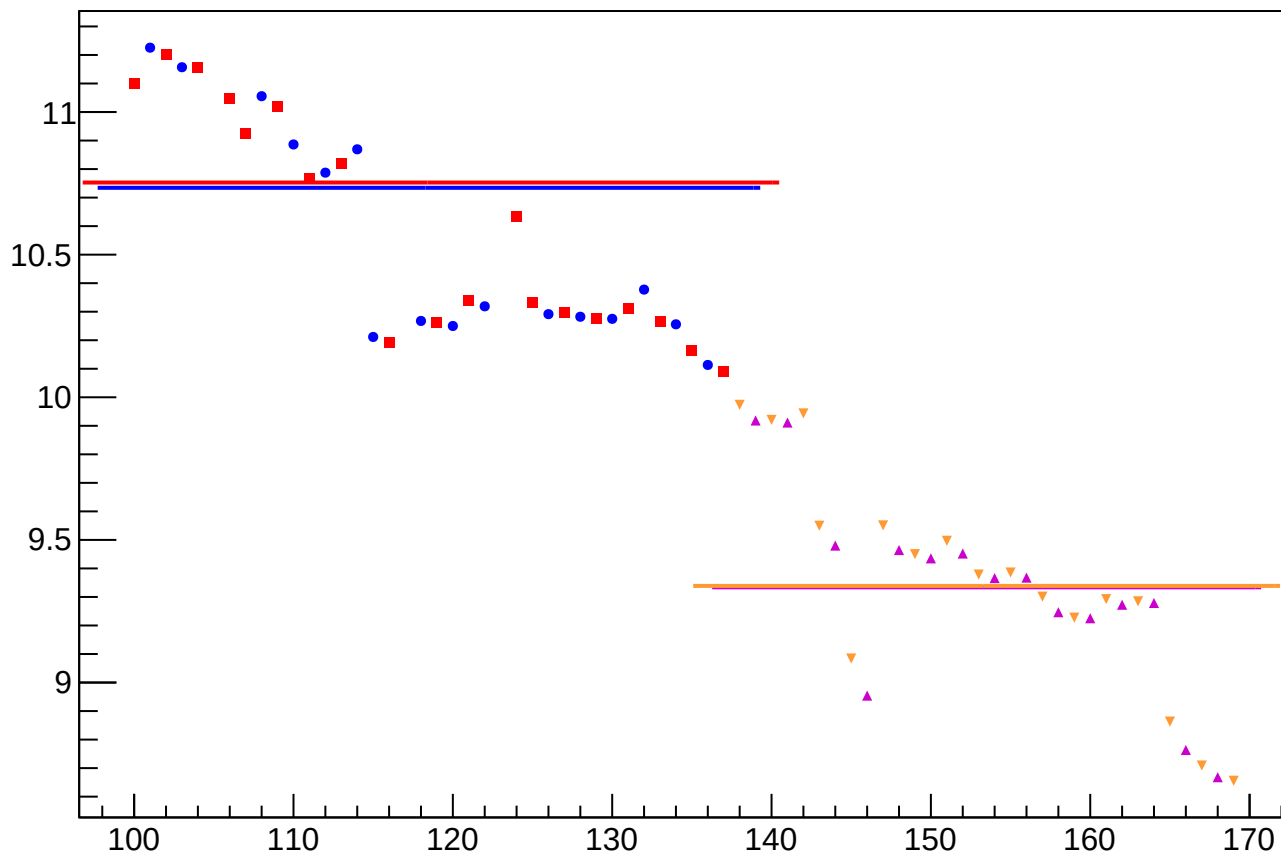
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 2654419.8/34

In: 0.031 $\pm$ 0.000 χ^2 /NDF:1828175.2/30

Out: 0.031 $\pm$ 0.000 χ^2 /NDF:1719472.5/35

All: 0.031 $\pm$ 0.000 χ^2 /NDF: 3547697.4/66

yield_sam6_mean vs Slug, Sign Corrected



Right In: 10.734+/-0.000 χ^2/NDF : 5879444478.4/15

Left Out: 9.339+/-0.000 χ^2/NDF : 4436798468.3/16

Right Out: 10.753+/-0.000 χ^2/NDF : 4344265704.2/18

Left In: 9.334+/-0.000 χ^2/NDF : 2911681974.0/14

Left: 9.336+/-0.000 χ^2/NDF : 7348857427.0/31

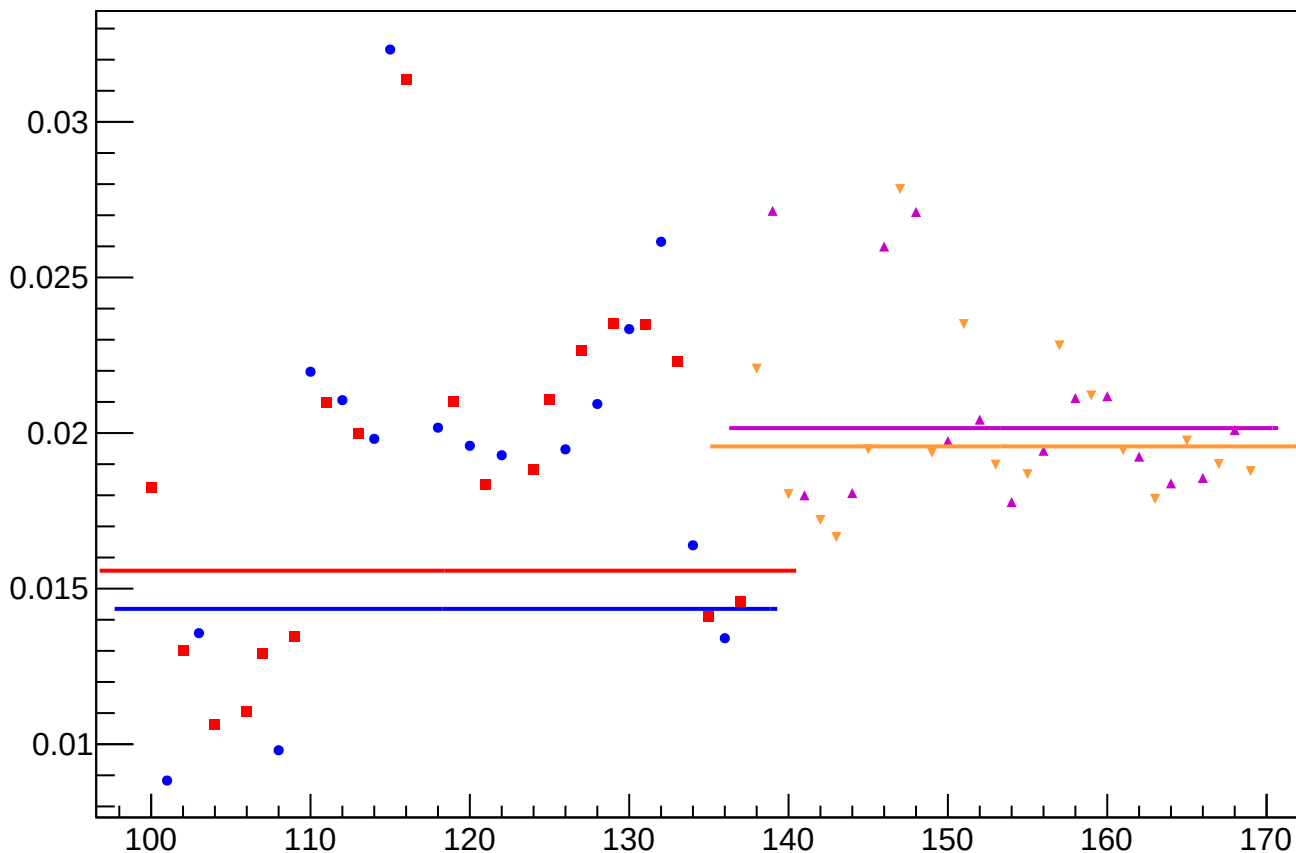
Right: 10.743+/-0.000 χ^2/NDF : 10228218714.9/34

In: 10.035+/-0.000 χ^2/NDF : 35849355106.4/30

Out: 9.969+/-0.000 χ^2/NDF : 37066776657.7/35

All: 10.001+/-0.000 χ^2/NDF : 73039180502.9

yield_sam6_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1481790.8/15

Left Out: 0.020+/-0.000 χ^2/NDF :335095.6/16

Right Out: 0.016+/-0.000 χ^2/NDF : 1071979.1/18

Left In: 0.020+/-0.000 χ^2/NDF :399954.3/14

Left: 0.020+/-0.000 χ^2/NDF : 745236.6/31

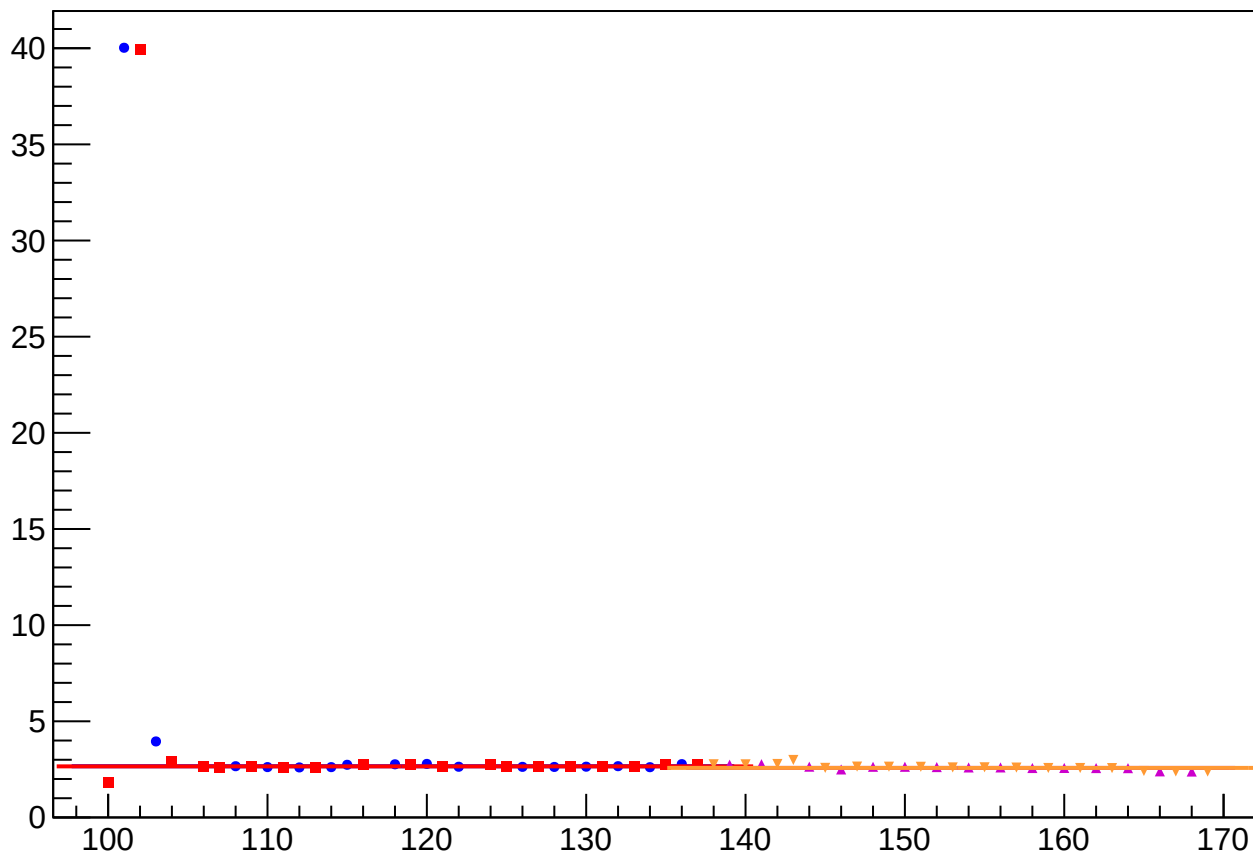
Right: 0.015+/-0.000 χ^2/NDF : 2593711.2/34

In: 0.017+/-0.000 χ^2/NDF :2812744.9/30

Out: 0.018+/-0.000 χ^2/NDF :1858572.4/35

All: 0.018+/-0.000 χ^2/NDF : 4687765.0/66

yield_sam7_mean vs Slug, Sign Corrected



Right In: 2.664+/-0.000

χ^2/NDF : 67839888284.3/15

Left: 2.576+/-0.000

χ^2/NDF : 71573931352.4/31

Left Out: 2.577+/-0.000

χ^2/NDF : 48454355129.4/16

Right: 2.660+/-0.000

χ^2/NDF : 132934575870.3/34

Right Out: 2.656+/-0.000

χ^2/NDF : 65056887880.1/18

In: 2.612+/-0.000

χ^2/NDF : 97578638079.9/30

Out: 2.607+/-0.000

χ^2/NDF : 119071461507.2/35

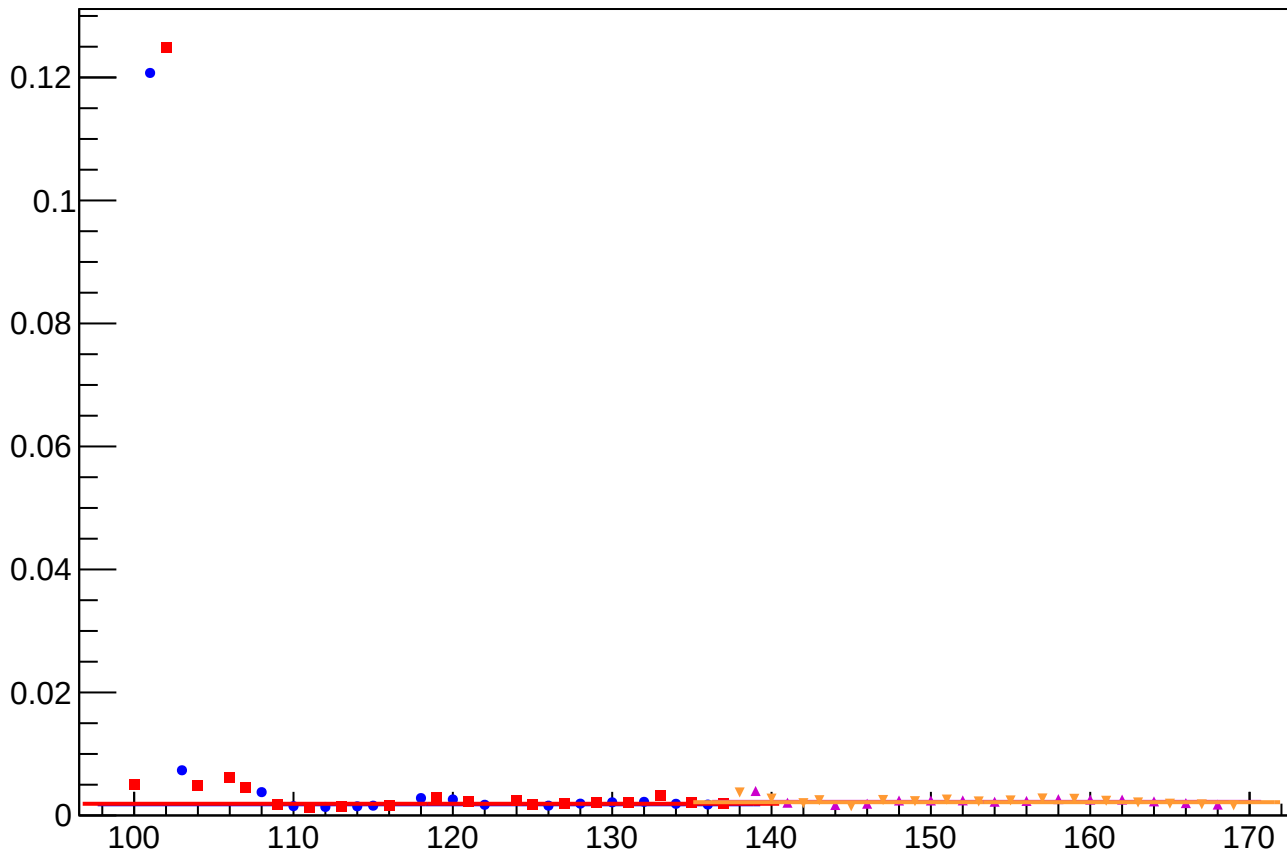
Left In: 2.575+/-0.000

χ^2/NDF : 23117439443.9/14

All: 2.609+/-0.000

χ^2/NDF : 216697086513.9

yield_sam7_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1822680.9/15

Left Out: 0.002+/-0.000 χ^2/NDF : 1040815.5/16

Right Out: 0.002+/-0.000 χ^2/NDF : 2525514.7/18

Left In: 0.002+/-0.000 χ^2/NDF : 727858.8/14

Left: 0.002+/-0.000 χ^2/NDF : 1774944.3/31

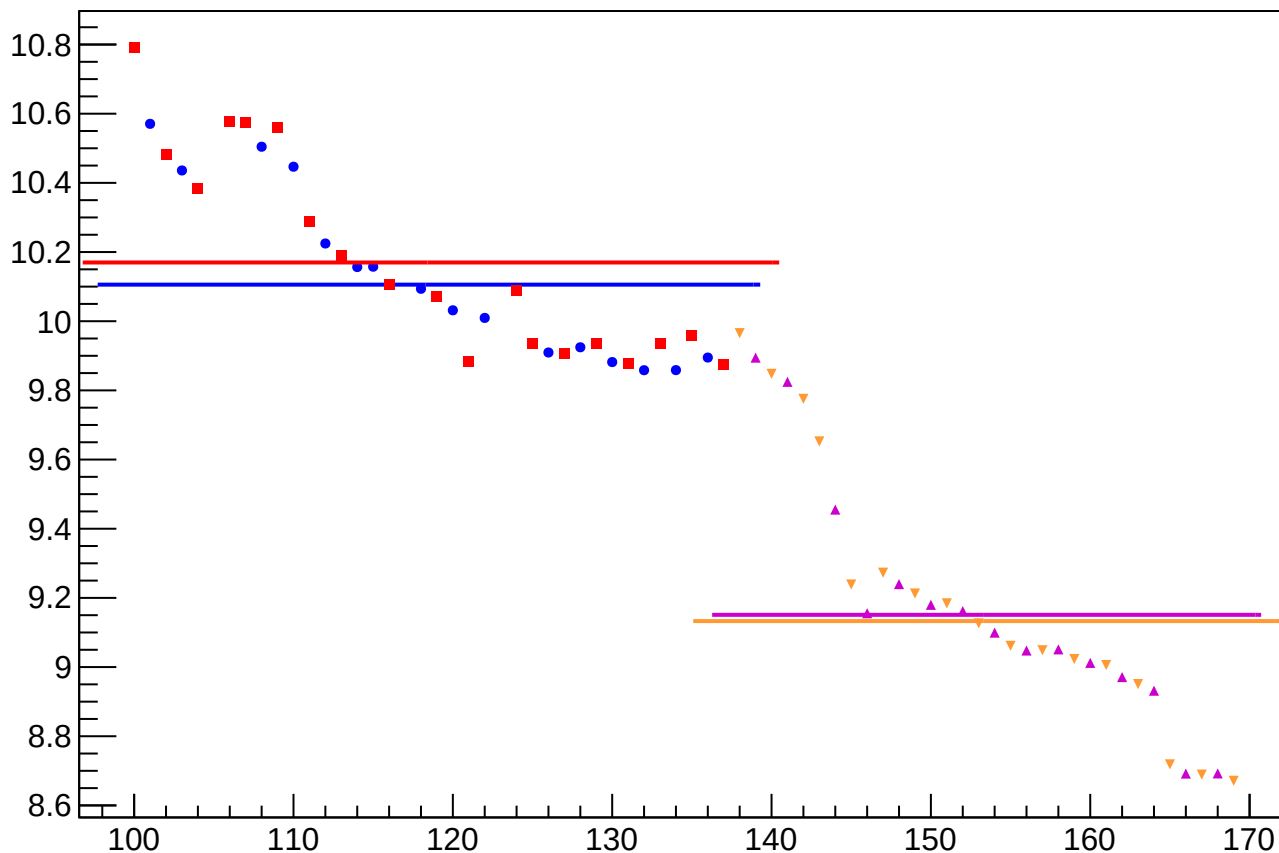
Right: 0.002+/-0.000 χ^2/NDF : 4358433.6/34

In: 0.002+/-0.000 χ^2/NDF : 2815325.4/30

Out: 0.002+/-0.000 χ^2/NDF : 3681766.9/35

All: 0.002+/-0.000 χ^2/NDF : 6497701.2/66

yield_sam8_mean vs Slug, Sign Corrected



Right In: 10.106+/-0.000 χ^2/NDF : 9126550621.3/15

Left Out: 9.133+/-0.000 χ^2/NDF : 32130723214.6/16

Right Out: 10.170+/-0.000 χ^2/NDF : 9135610954.1/18

Left In: 9.151+/-0.000 χ^2/NDF : 22600417383.1/14

Left: 9.141+/-0.000 χ^2/NDF : 54773804520.4/31

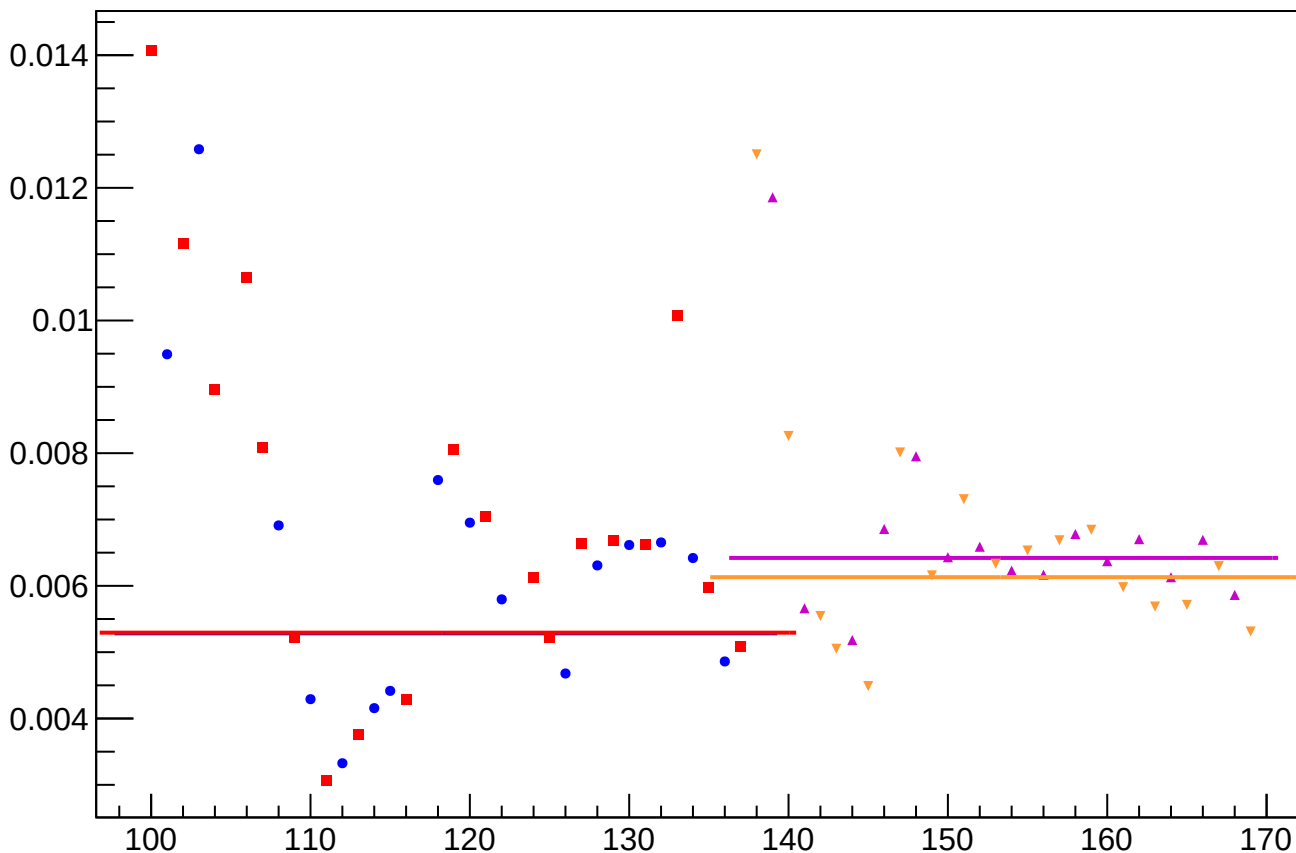
Right: 10.138+/-0.000 χ^2/NDF : 18662438112.6/34

In: 9.576+/-0.000 χ^2/NDF : 129588841571.9/30

Out: 9.557+/-0.000 χ^2/NDF : 166349399152.9/35

All: 9.566+/-0.000 χ^2/NDF : 296019240951.3

yield_sam8_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1274133.0/15

Left Out: 0.006+/-0.000 χ^2/NDF :862575.3/16

Right Out: 0.005+/-0.000 χ^2/NDF : 1792250.8/18

Left In: 0.006+/-0.000 χ^2/NDF :516208.9/14

Left: 0.006+/-0.000 χ^2/NDF : 1400836.4/31

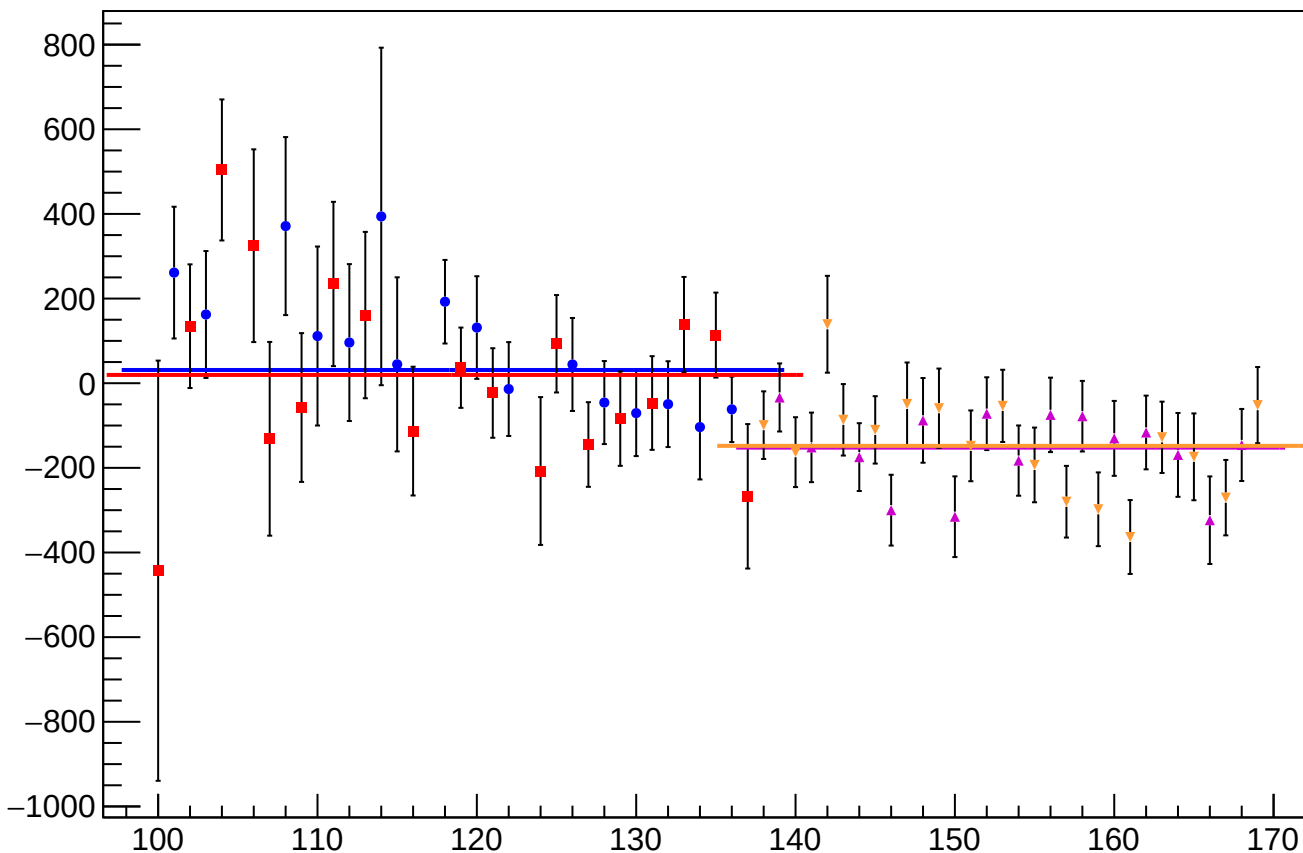
Right: 0.005+/-0.000 χ^2/NDF : 3066401.4/34

In: 0.006+/-0.000 χ^2/NDF :2067645.3/30

Out: 0.006+/-0.000 χ^2/NDF :2817574.8/35

All: 0.006+/-0.000 χ^2/NDF : 4892587.9/66

reg_asym_sam1_mean vs Slug, Sign Corrected



Right In: 31.249 $\pm$ 30.786 χ^2/NDF : 15.1/15

Left Out: -147.991 $\pm$ 21.356 χ^2/NDF : 25.5/16

Right Out: 19.573 $\pm$ 31.059 χ^2/NDF : 25.9/18

Left In: -152.211 $\pm$ 22.603 χ^2/NDF : 14.3/14

Left: -149.981 $\pm$ 15.523 χ^2/NDF : 39.8/31

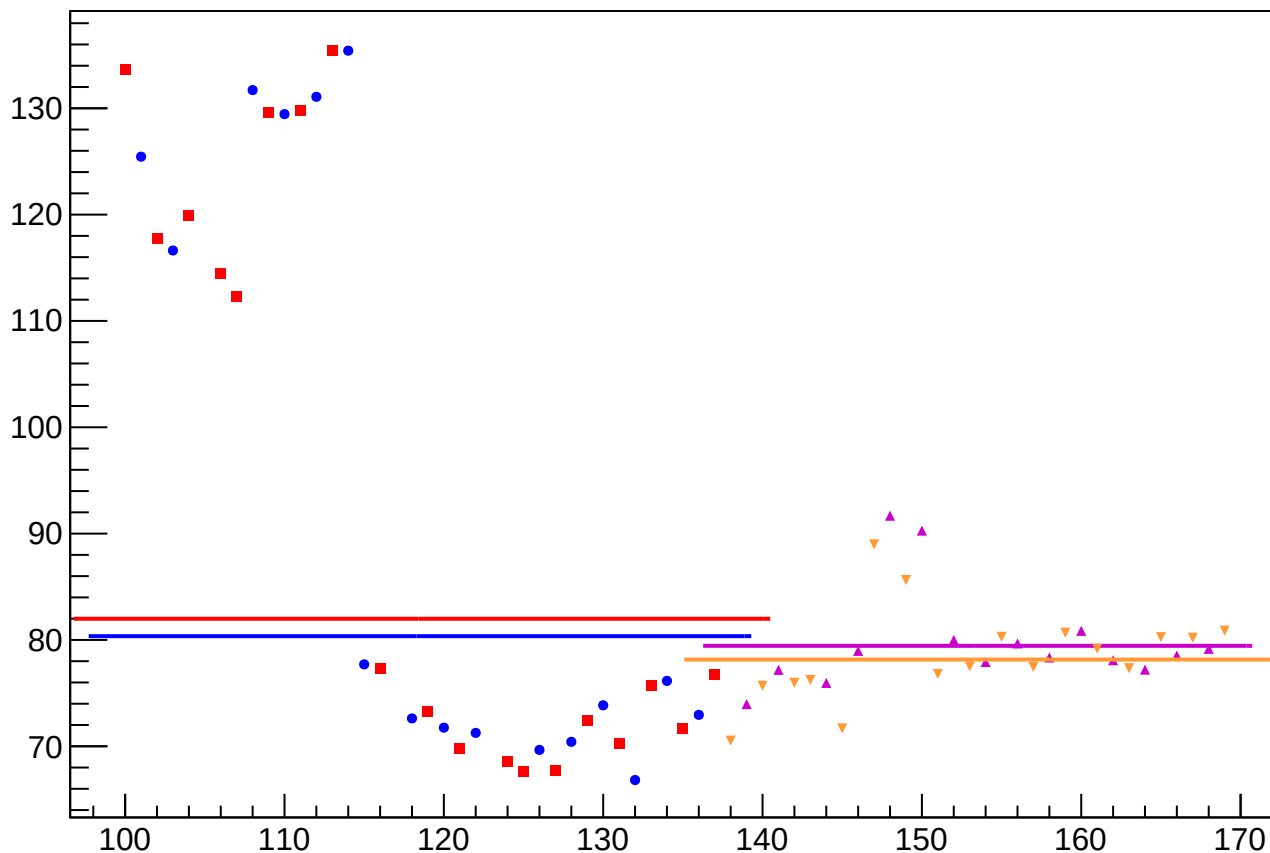
Right: 25.463 $\pm$ 21.865 χ^2/NDF : 41.1/34

In: -87.956 $\pm$ 18.220 χ^2/NDF : 52.5/30

Out: -94.198 $\pm$ 17.598 χ^2/NDF : 71.2/35

All: -91.186 $\pm$ 12.658 χ^2/NDF : 123.7/66

reg_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.354 $\pm$ 0.022 χ^2 /NDF: 840039.5/15

Left Out: 78.156 $\pm$ 0.015 χ^2 /NDF: 79963.2/16

Right Out: 81.993 $\pm$ 0.022 χ^2 /NDF: 932337.7/18

Left In: 79.445 $\pm$ 0.016 χ^2 /NDF: 73676.7/14

Left: 78.764 $\pm$ 0.011 χ^2 /NDF: 157077.4/31

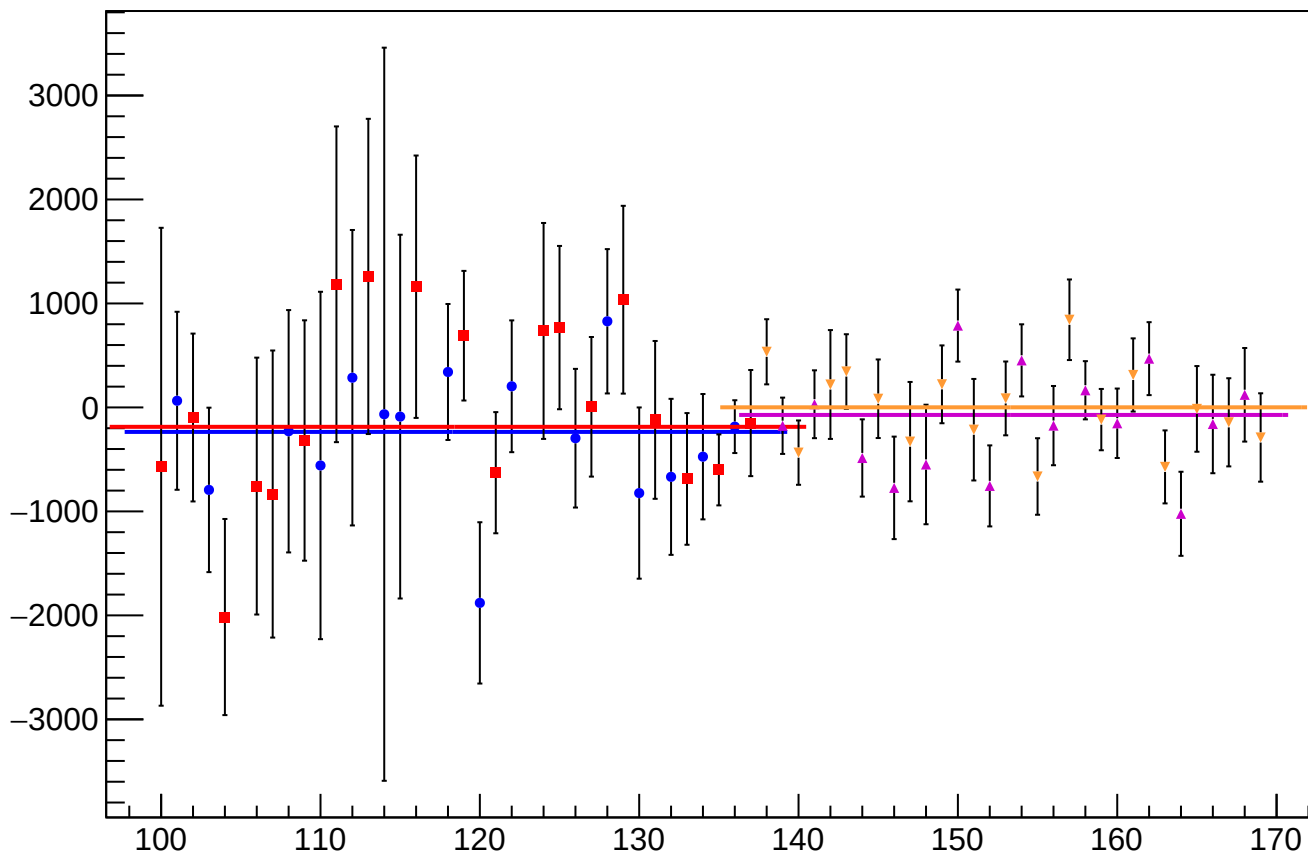
Right: 81.166 $\pm$ 0.015 χ^2 /NDF: 1775186.5/34

In: 79.764 $\pm$ 0.013 χ^2 /NDF: 914848.3/30

Out: 79.388 $\pm$ 0.012 χ^2 /NDF: 1033024.2/35

All: 79.569 $\pm$ 0.009 χ^2 /NDF: 1948312.5/66

asym_sam1_reg_correction_mean vs Slug, Sign Corrected



Right In: -235.521 ± 163.765 χ^2/NDF : 9.9/15

Left Out: 1.034 ± 91.251 χ^2/NDF : 19.1/16

Right Out: -186.618 ± 170.394 χ^2/NDF : 16.0/18

Left In: -72.293 ± 94.120 χ^2/NDF : 24.7/14

Left: -34.495 ± 65.515 χ^2/NDF : 44.1/31

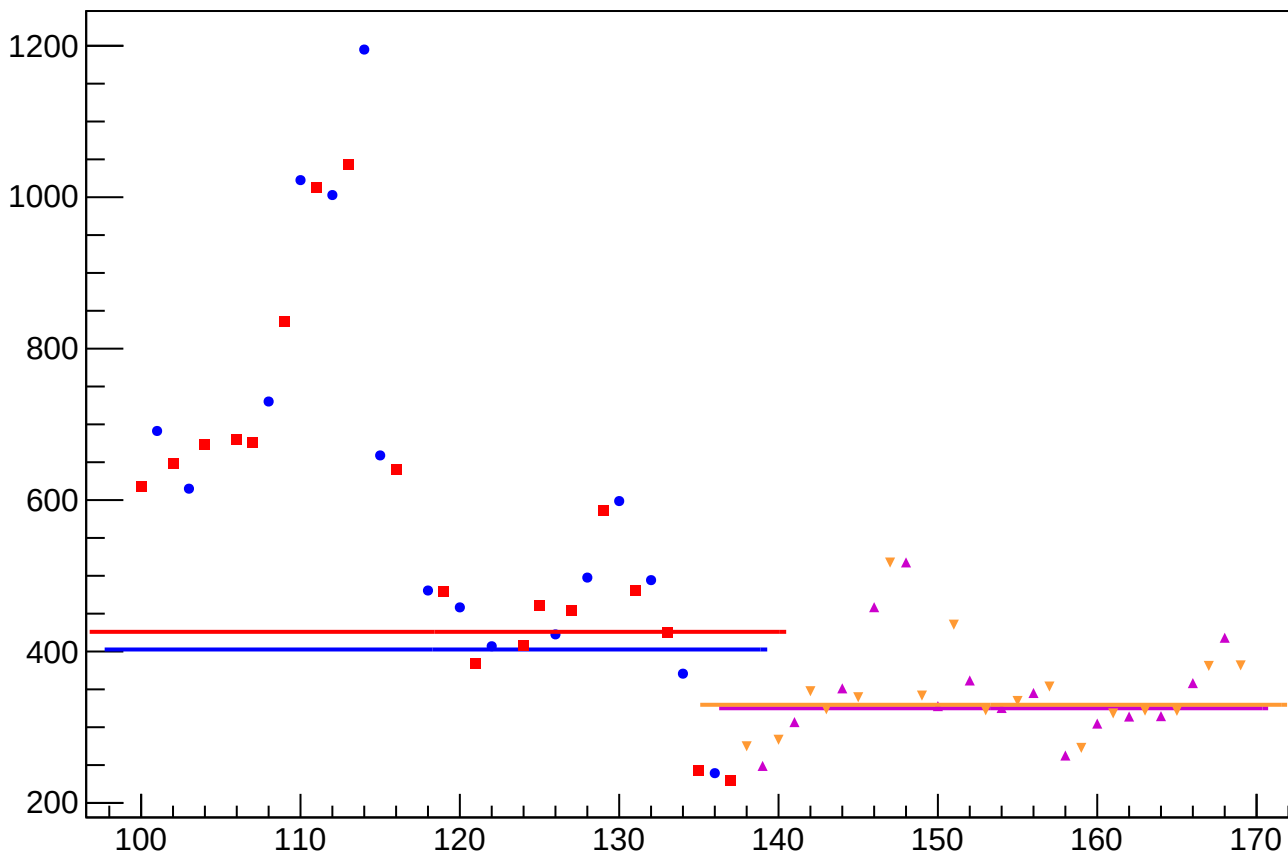
Right: -212.039 ± 118.073 χ^2/NDF : 25.9/34

In: -112.822 ± 81.603 χ^2/NDF : 35.4/30

Out: -40.788 ± 80.442 χ^2/NDF : 36.0/35

All: -76.289 ± 57.287 χ^2/NDF : 71.8/66

asym_sam1_reg_correction_rms vs Slug, Sign Corrected



Right In: 402.658+/-0.116 χ^2/NDF : 2360092.2/15

Left Out: 329.646+/-0.065 χ^2/NDF : 566958.2/16

Right Out: 425.980+/-0.120 χ^2/NDF : 2368792.4/18

Left In: 325.039+/-0.067 χ^2/NDF : 774769.8/14

Left: 327.414+/-0.046 χ^2/NDF : 1344198.7/31

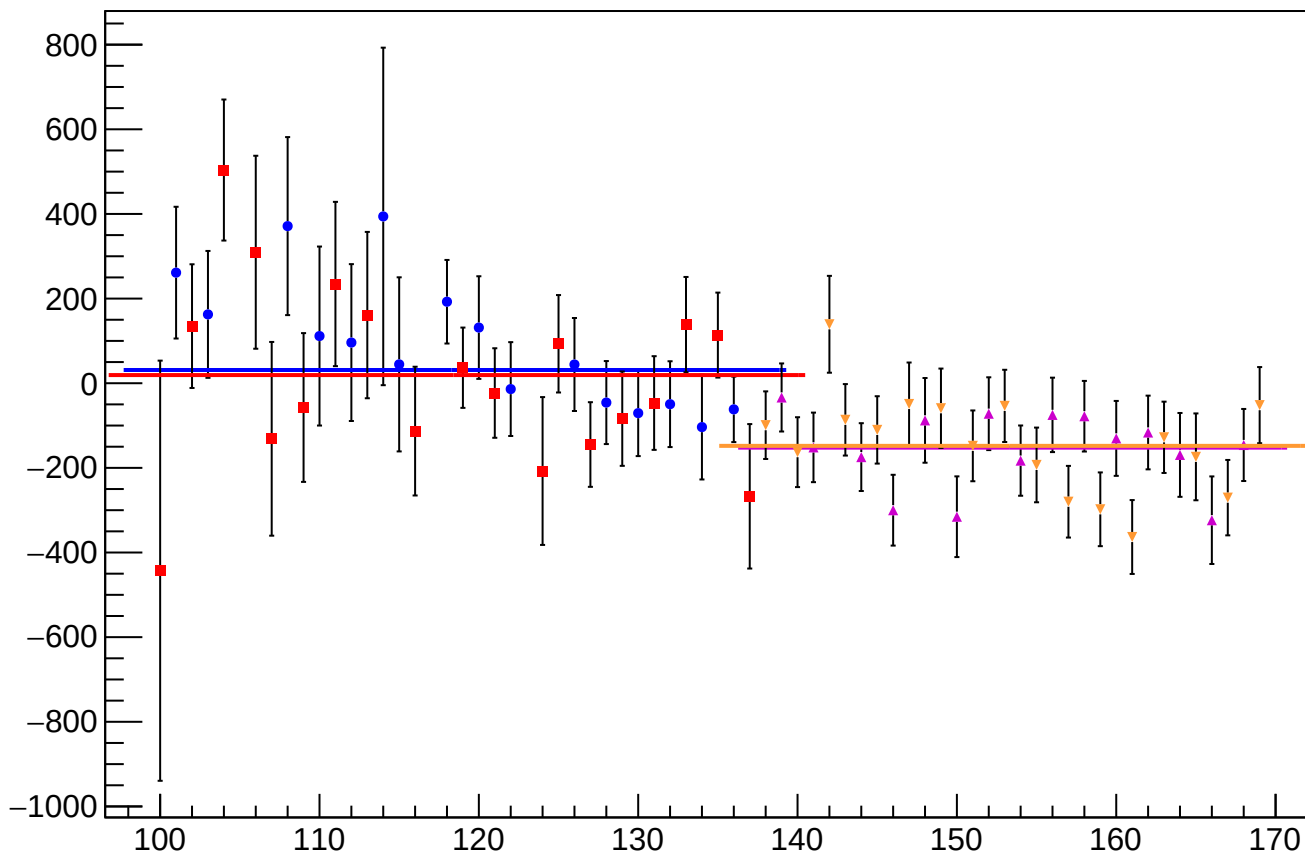
Right: 413.856+/-0.083 χ^2/NDF : 4748361.6/34

In: 344.311+/-0.058 χ^2/NDF : 3472593.7/30

Out: 351.116+/-0.057 χ^2/NDF : 3432535.1/35

All: 347.763+/-0.041 χ^2/NDF : 6912183.0/66

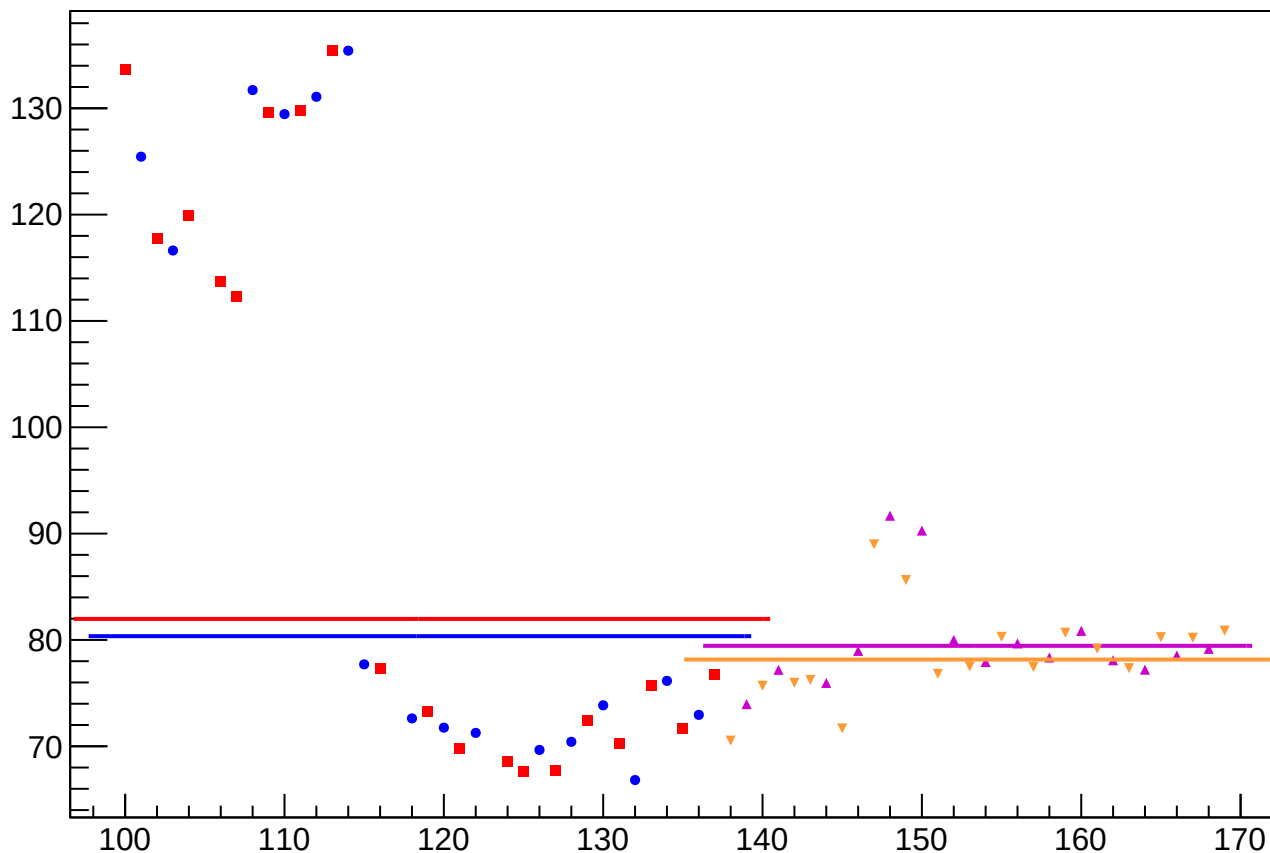
cor_asym_sam1_mean vs Slug, Sign Corrected



Right In: 31.260 $\pm$ 30.786 χ^2/NDF : 15.1/15
 Left Out: -147.988 $\pm$ 21.356 χ^2/NDF :25.5/16
 Right Out: 19.282 $\pm$ 31.060 χ^2/NDF : 25.7/18
 Left In: -152.214 $\pm$ 22.603 χ^2/NDF :14.3/14

Left: -149.981 $\pm$ 15.523 χ^2/NDF : 39.8/31
 Right: 25.324 $\pm$ 21.865 χ^2/NDF : 40.9/34
 In: -87.955 $\pm$ 18.220 χ^2/NDF :52.5/30
 Out: -94.292 $\pm$ 17.598 χ^2/NDF :70.9/35
 All: -91.233 $\pm$ 12.658 χ^2/NDF : 123.4/66

cor_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.354+/-0.022 χ^2/NDF : 840039.7/15

Left Out: 78.156+/-0.015 χ^2/NDF : 79963.2/16

Right Out: 81.978+/-0.022 χ^2/NDF : 930466.5/18

Left In: 79.445+/-0.016 χ^2/NDF : 73676.7/14

Left: 78.764+/-0.011 χ^2/NDF : 157077.4/31

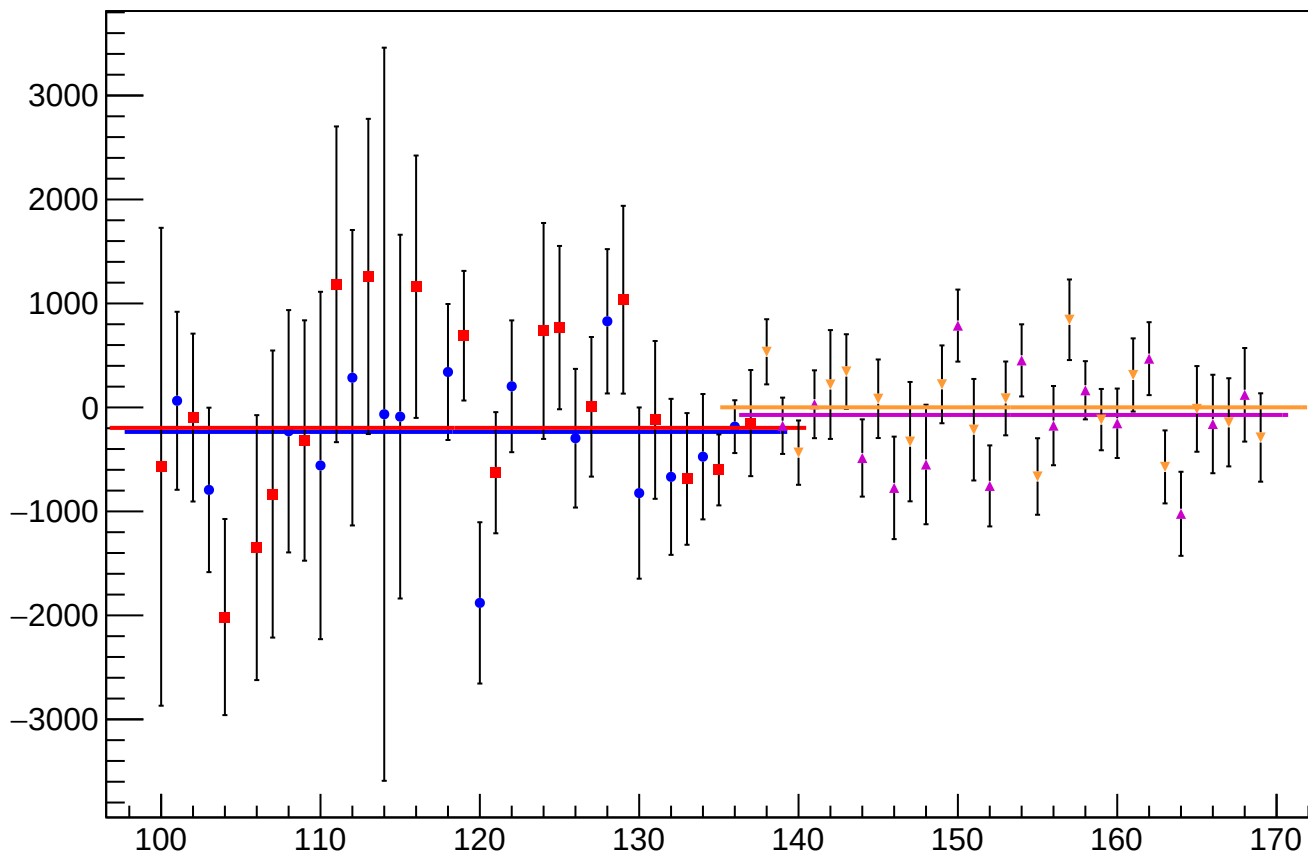
Right: 81.159+/-0.015 χ^2/NDF : 1773264.0/34

In: 79.764+/-0.013 χ^2/NDF : 914848.5/30

Out: 79.383+/-0.012 χ^2/NDF : 1030990.0/35

All: 79.567+/-0.009 χ^2/NDF : 1946290.0/66

asym_sam1_cor_correction_mean vs Slug, Sign Corrected



Right In: -235.519 ± 163.765 χ^2/NDF : 9.9/15

Left Out: 1.035 ± 91.251 χ^2/NDF : 19.1/16

Right Out: -196.579 ± 170.492 χ^2/NDF : 16.6/18

Left In: -72.298 ± 94.120 χ^2/NDF : 24.7/14

Left: -34.497 ± 65.515 χ^2/NDF : 44.1/31

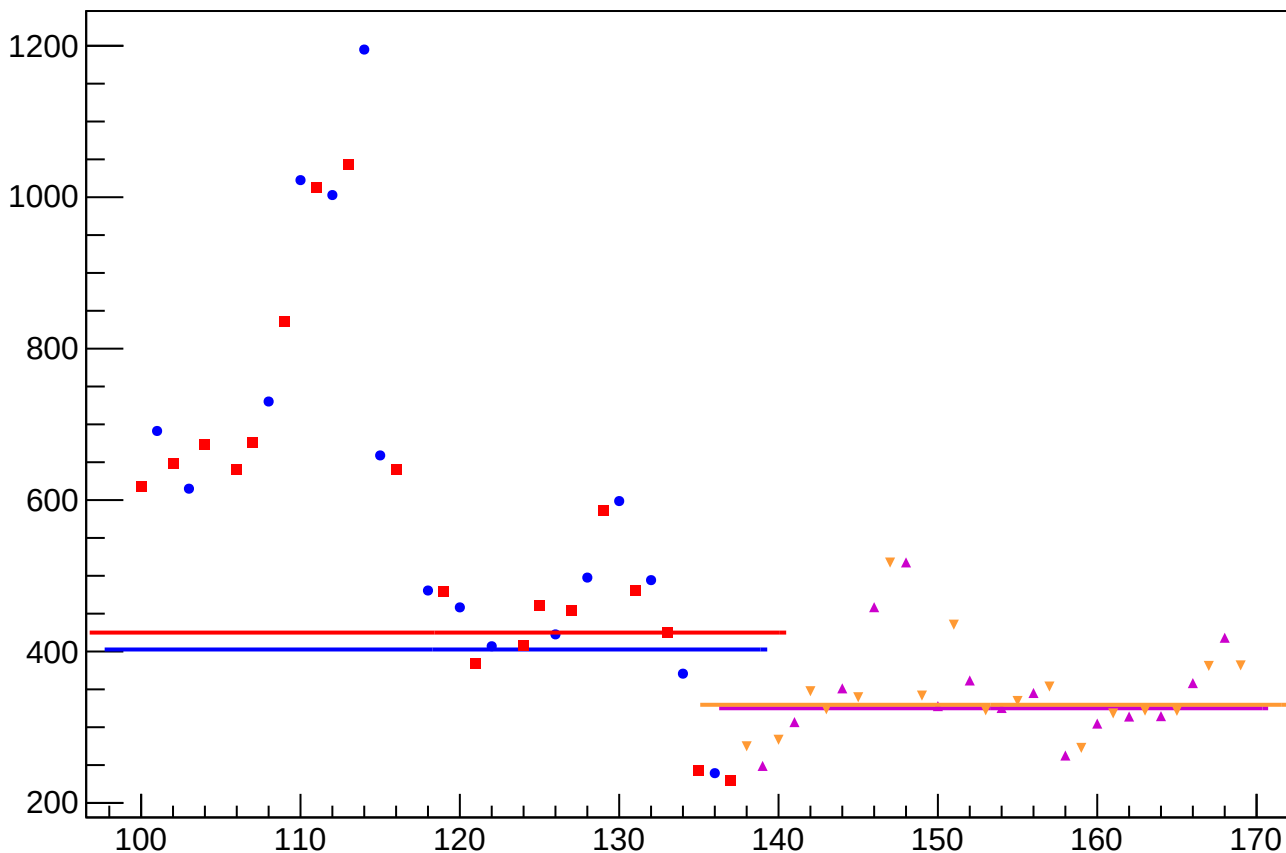
Right: -216.832 ± 118.106 χ^2/NDF : 26.5/34

In: -112.825 ± 81.603 χ^2/NDF : 35.4/30

Out: -42.968 ± 80.453 χ^2/NDF : 36.8/35

All: -77.401 ± 57.291 χ^2/NDF : 72.5/66

asym_sam1_cor_correction_rms vs Slug, Sign Corrected



Right In: 402.658 $\pm$ 0.116 χ^2 /NDF: 2360087.3/15

Left Out: 329.646 $\pm$ 0.065 χ^2 /NDF: 566965.7/16

Right Out: 424.988 $\pm$ 0.121 χ^2 /NDF: 2341027.2/18

Left In: 325.039 $\pm$ 0.067 χ^2 /NDF: 774770.2/14

Left: 327.414 $\pm$ 0.046 χ^2 /NDF: 1344206.2/31

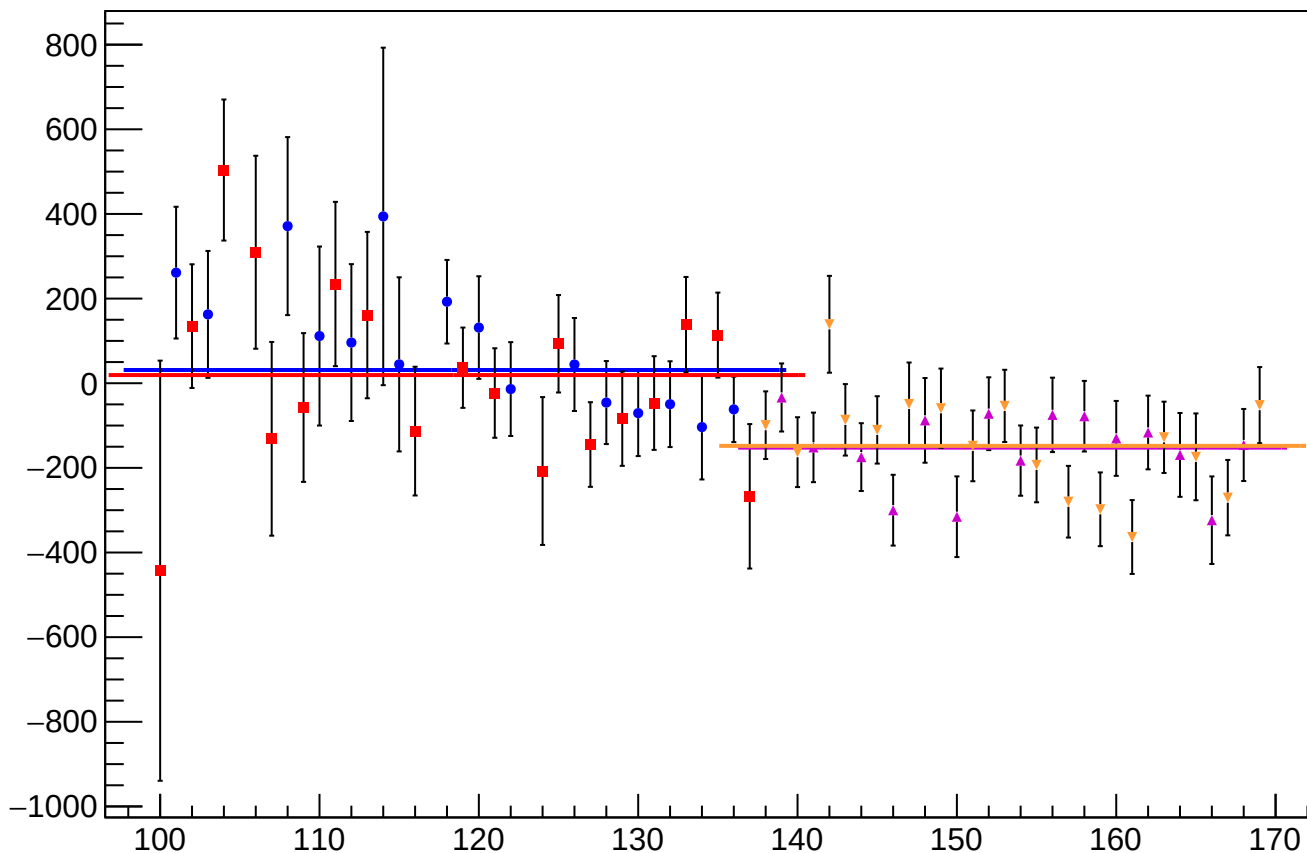
Right: 413.374 $\pm$ 0.084 χ^2 /NDF: 4718958.6/34

In: 344.311 $\pm$ 0.058 χ^2 /NDF: 3472589.3/30

Out: 350.876 $\pm$ 0.057 χ^2 /NDF: 3394166.0/35

All: 347.640 $\pm$ 0.041 χ^2 /NDF: 6873319.2/66

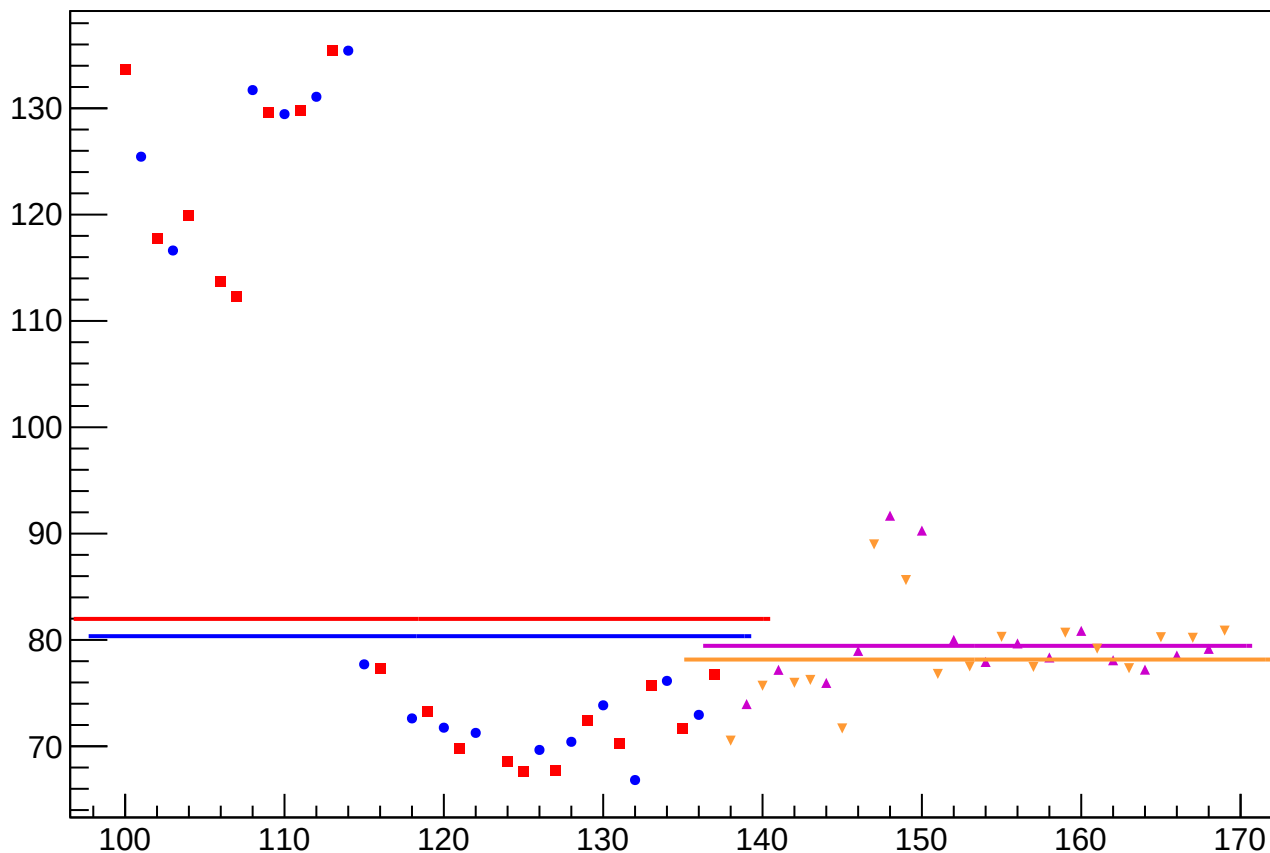
eigen_cor_asym_sam1_mean vs Slug, Sign Corrected



Right In: 31.260 ± 30.786 $\chi^2/\text{NDF}: 15.1/15$
 Left Out: -147.988 ± 21.356 $\chi^2/\text{NDF}: 25.5/16$
 Right Out: 19.282 ± 31.060 $\chi^2/\text{NDF}: 25.7/18$
 Left In: -152.214 ± 22.603 $\chi^2/\text{NDF}: 14.3/14$

Left: -149.981 ± 15.523 $\chi^2/\text{NDF}: 39.8/31$
 Right: 25.324 ± 21.865 $\chi^2/\text{NDF}: 40.9/34$
 In: -87.955 ± 18.220 $\chi^2/\text{NDF}: 52.5/30$
 Out: -94.292 ± 17.598 $\chi^2/\text{NDF}: 70.9/35$
 All: -91.233 ± 12.658 $\chi^2/\text{NDF}: 123.4/66$

eigen_cor_asym_sam1_rms vs Slug, Sign Corrected



Right In: 80.354+/-0.022 χ^2/NDF : 840039.7/15

Left Out: 78.156+/-0.015 χ^2/NDF : 79963.2/16

Right Out: 81.978+/-0.022 χ^2/NDF : 930466.5/18

Left In: 79.445+/-0.016 χ^2/NDF : 73676.7/14

Left: 78.764+/-0.011 χ^2/NDF : 157077.4/31

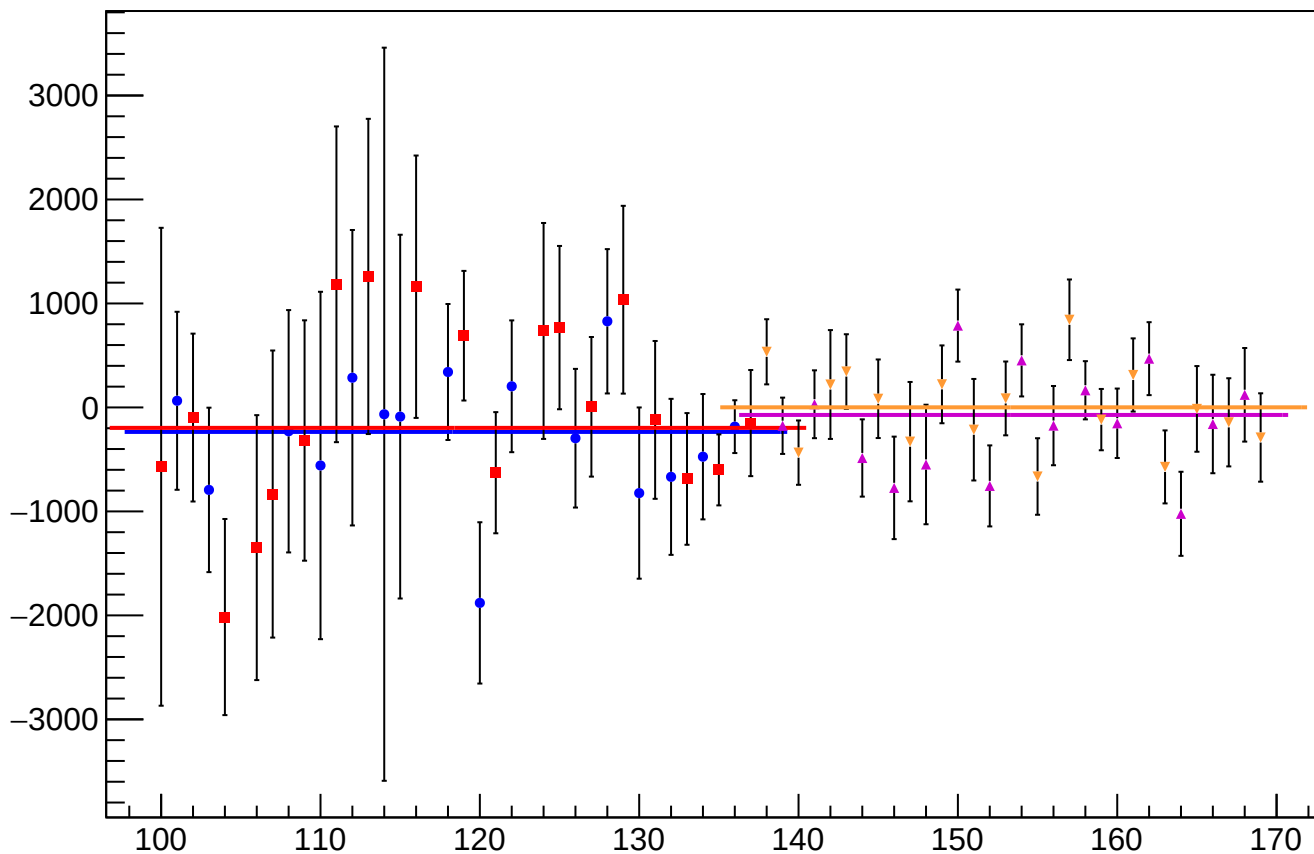
Right: 81.159+/-0.015 χ^2/NDF : 1773264.0/34

In: 79.764+/-0.013 χ^2/NDF : 914848.5/30

Out: 79.383+/-0.012 χ^2/NDF : 1030990.0/35

All: 79.567+/-0.009 χ^2/NDF : 1946290.0/66

asym_sam1_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -235.519 ± 163.765 χ^2/NDF : 9.9/15

Left Out: 1.035 ± 91.251 χ^2/NDF : 19.1/16

Right Out: -196.579 ± 170.492 χ^2/NDF : 16.6/18

Left In: -72.298 ± 94.120 χ^2/NDF : 24.7/14

Left: -34.497 ± 65.515 χ^2/NDF : 44.1/31

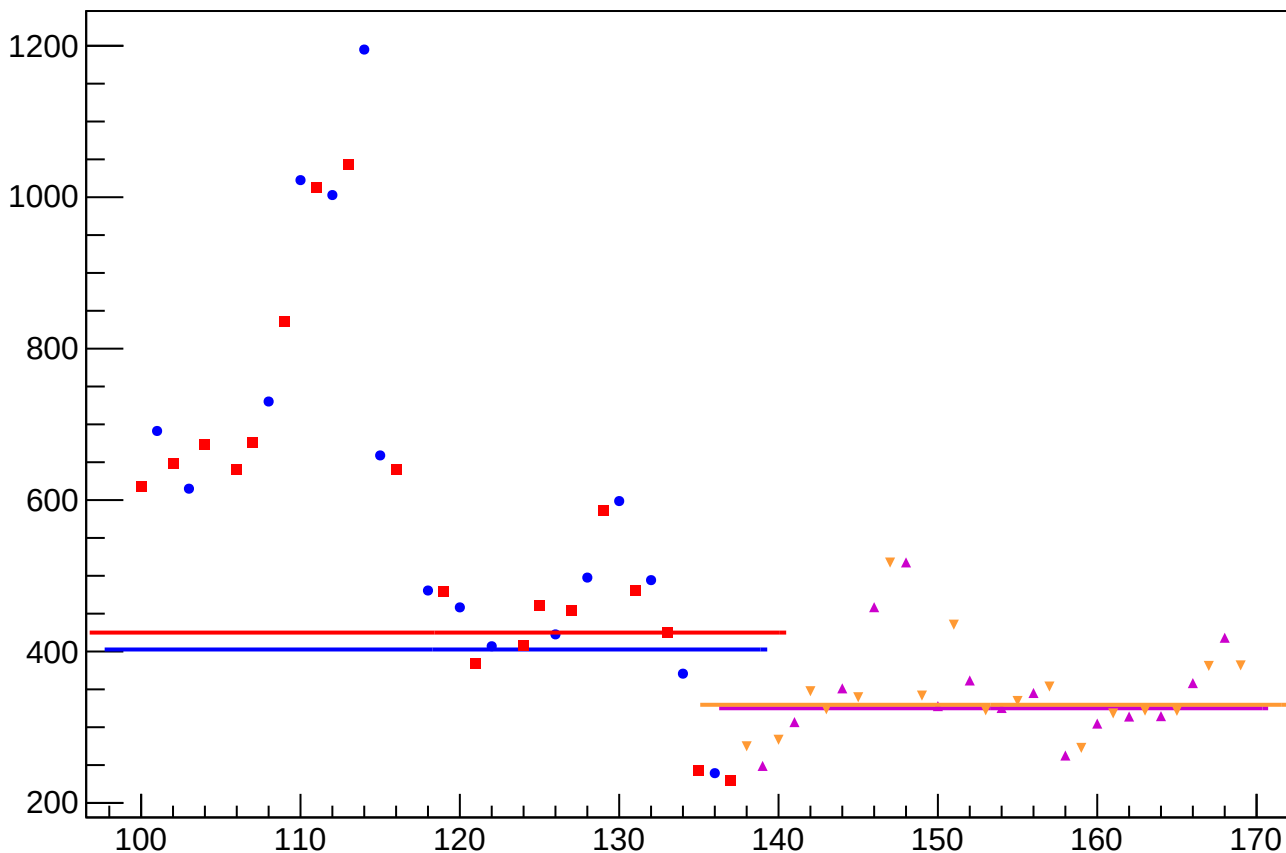
Right: -216.832 ± 118.106 χ^2/NDF : 26.5/34

In: -112.825 ± 81.603 χ^2/NDF : 35.4/30

Out: -42.968 ± 80.453 χ^2/NDF : 36.8/35

All: -77.401 ± 57.291 χ^2/NDF : 72.5/66

asym_sam1_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 402.658 $\pm$ 0.116 χ^2 /NDF: 2360087.3/15

Left Out: 329.646 $\pm$ 0.065 χ^2 /NDF: 566965.7/16

Right Out: 424.988 $\pm$ 0.121 χ^2 /NDF: 2341027.2/18

Left In: 325.039 $\pm$ 0.067 χ^2 /NDF: 774770.2/14

Left: 327.414 $\pm$ 0.046 χ^2 /NDF: 1344206.2/31

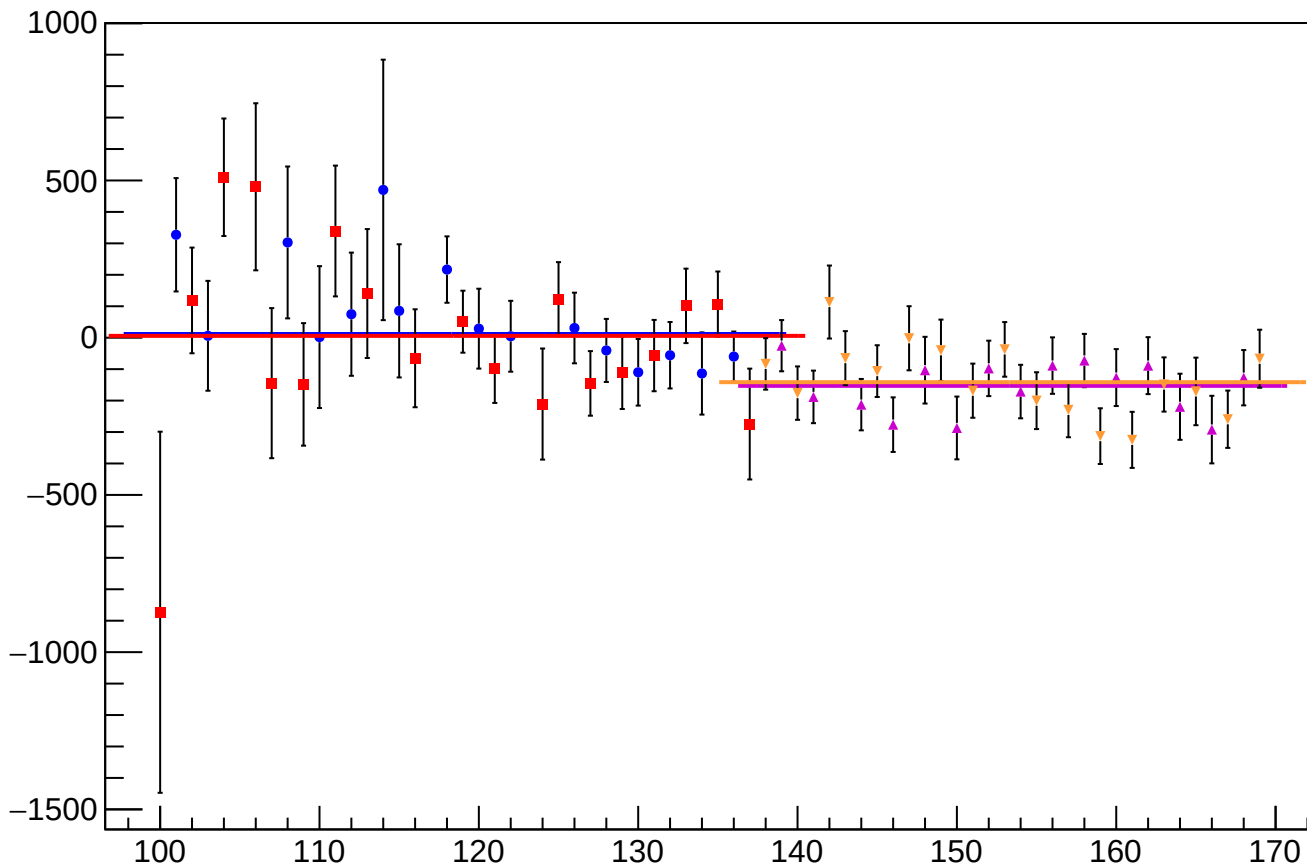
Right: 413.374 $\pm$ 0.084 χ^2 /NDF: 4718958.6/34

In: 344.311 $\pm$ 0.058 χ^2 /NDF: 3472589.3/30

Out: 350.876 $\pm$ 0.057 χ^2 /NDF: 3394166.0/35

All: 347.640 $\pm$ 0.041 χ^2 /NDF: 6873319.2/66

dit_asym_sam1_mean vs Slug, Sign Corrected



Right In: 11.651 ± 32.297 $\chi^2/\text{NDF}: 13.5/15$

Left Out: -141.468 ± 21.923 $\chi^2/\text{NDF}: 22.8/16$

Right Out: 5.817 ± 32.444 $\chi^2/\text{NDF}: 28.8/18$

Left In: -153.103 ± 23.275 $\chi^2/\text{NDF}: 11.8/14$

Left: -146.938 ± 15.959 $\chi^2/\text{NDF}: 34.8/31$

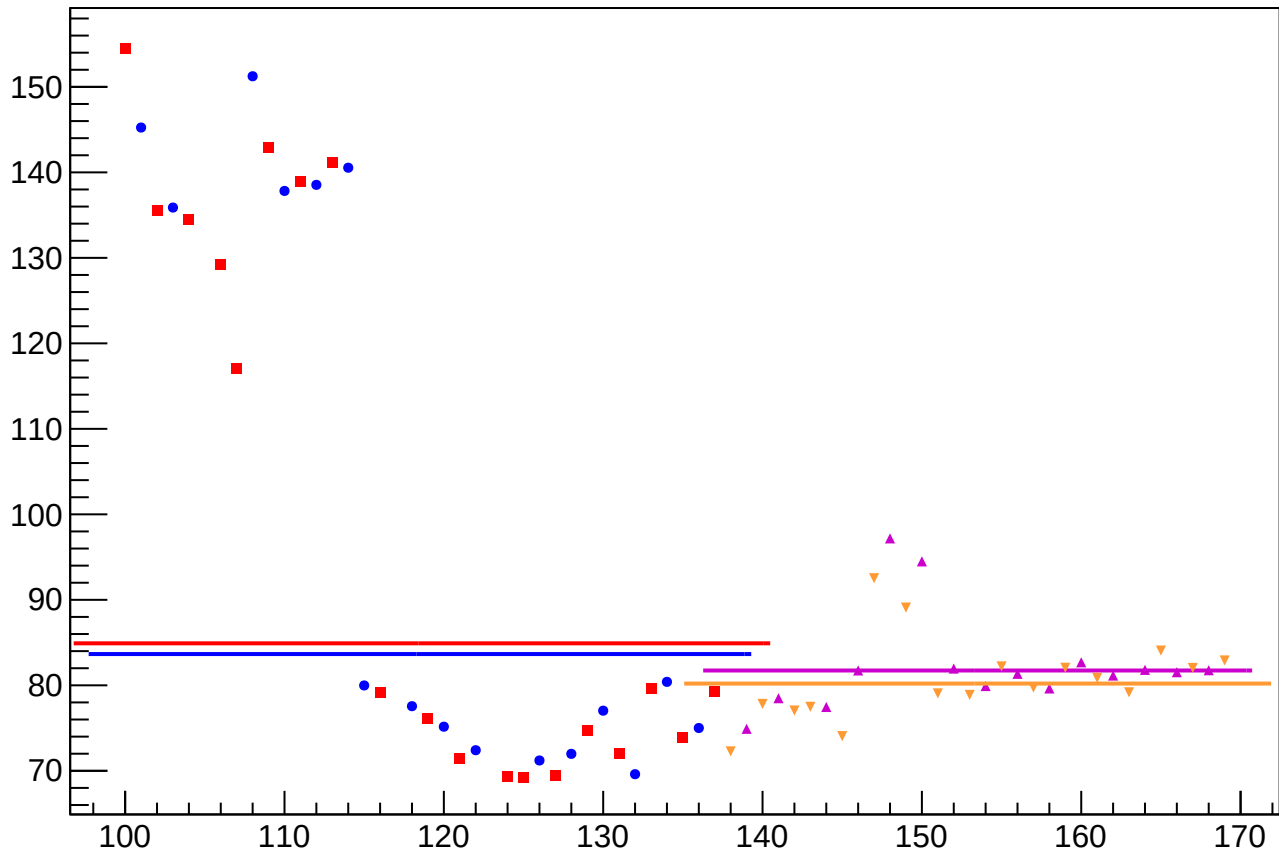
Right: 8.747 ± 22.889 $\chi^2/\text{NDF}: 42.3/34$

In: -96.787 ± 18.883 $\chi^2/\text{NDF}: 42.5/30$

Out: -95.297 ± 18.165 $\chi^2/\text{NDF}: 65.7/35$

All: -96.014 ± 13.091 $\chi^2/\text{NDF}: 108.2/66$

dit_asym_sam1_rms vs Slug, Sign Corrected



Right In: 83.657 $\pm$ 0.023 χ^2 /NDF: 1034794.6/15

Left Out: 80.206 $\pm$ 0.016 χ^2 /NDF:89079.0/16

Right Out: 84.913 $\pm$ 0.023 χ^2 /NDF: 1121669.5/18

Left In: 81.734 $\pm$ 0.016 χ^2 /NDF:100134.9/14

Left: 80.924 $\pm$ 0.011 χ^2 /NDF: 193780.0/31

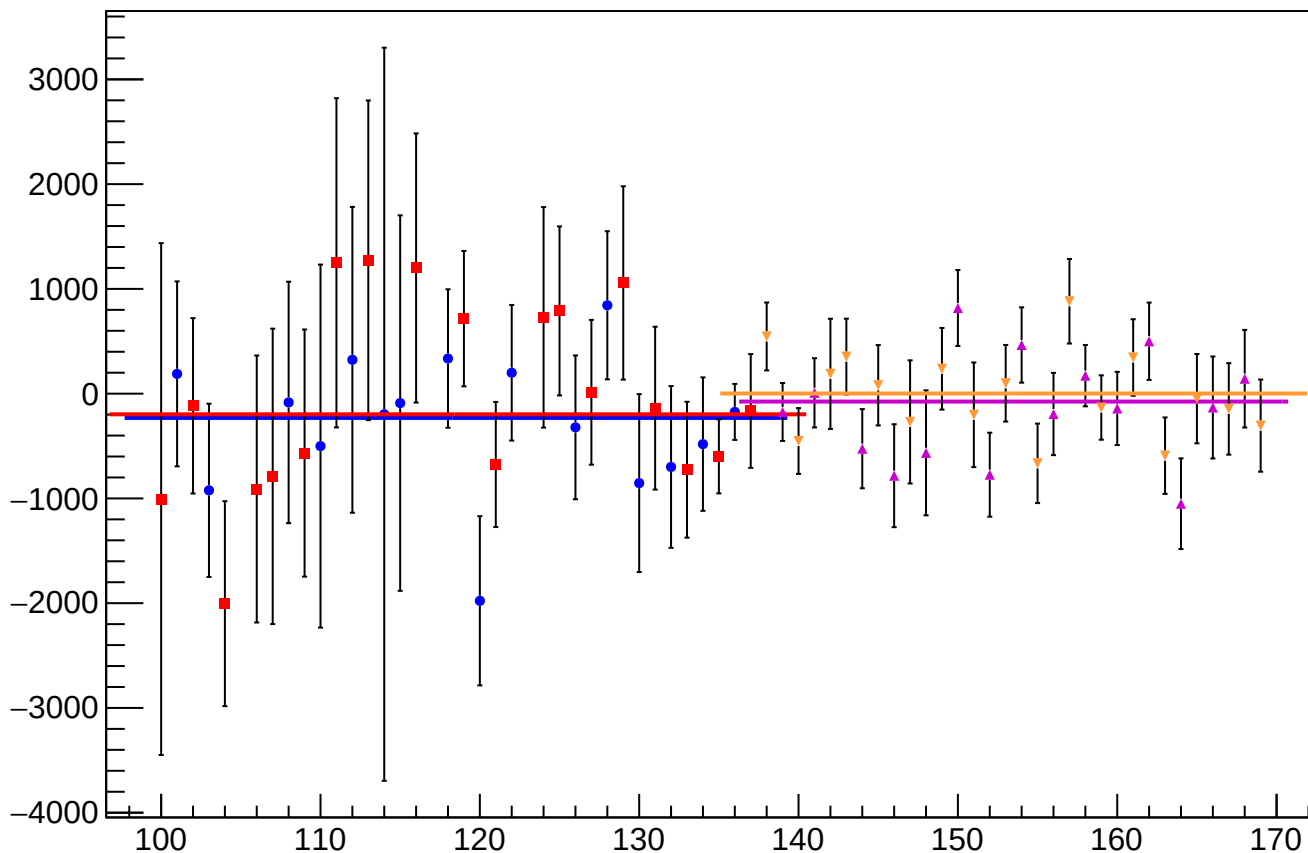
Right: 84.282 $\pm$ 0.016 χ^2 /NDF: 2157969.4/34

In: 82.391 $\pm$ 0.013 χ^2 /NDF:1139597.0/30

Out: 81.682 $\pm$ 0.013 χ^2 /NDF:1239648.3/35

All: 82.023 $\pm$ 0.009 χ^2 /NDF: 2380712.4/66

asym_sam1_dit_correction_mean vs Slug, Sign Corrected



Right In: -231.407 ± 170.133 $\chi^2/\text{NDF}: 10.4/15$

Left Out: 1.581 ± 93.960 $\chi^2/\text{NDF}: 19.0/16$

Right Out: -197.206 ± 176.091 $\chi^2/\text{NDF}: 15.9/18$

Left In: -75.529 ± 97.335 $\chi^2/\text{NDF}: 24.3/14$

Left: -35.614 ± 67.601 $\chi^2/\text{NDF}: 43.6/31$

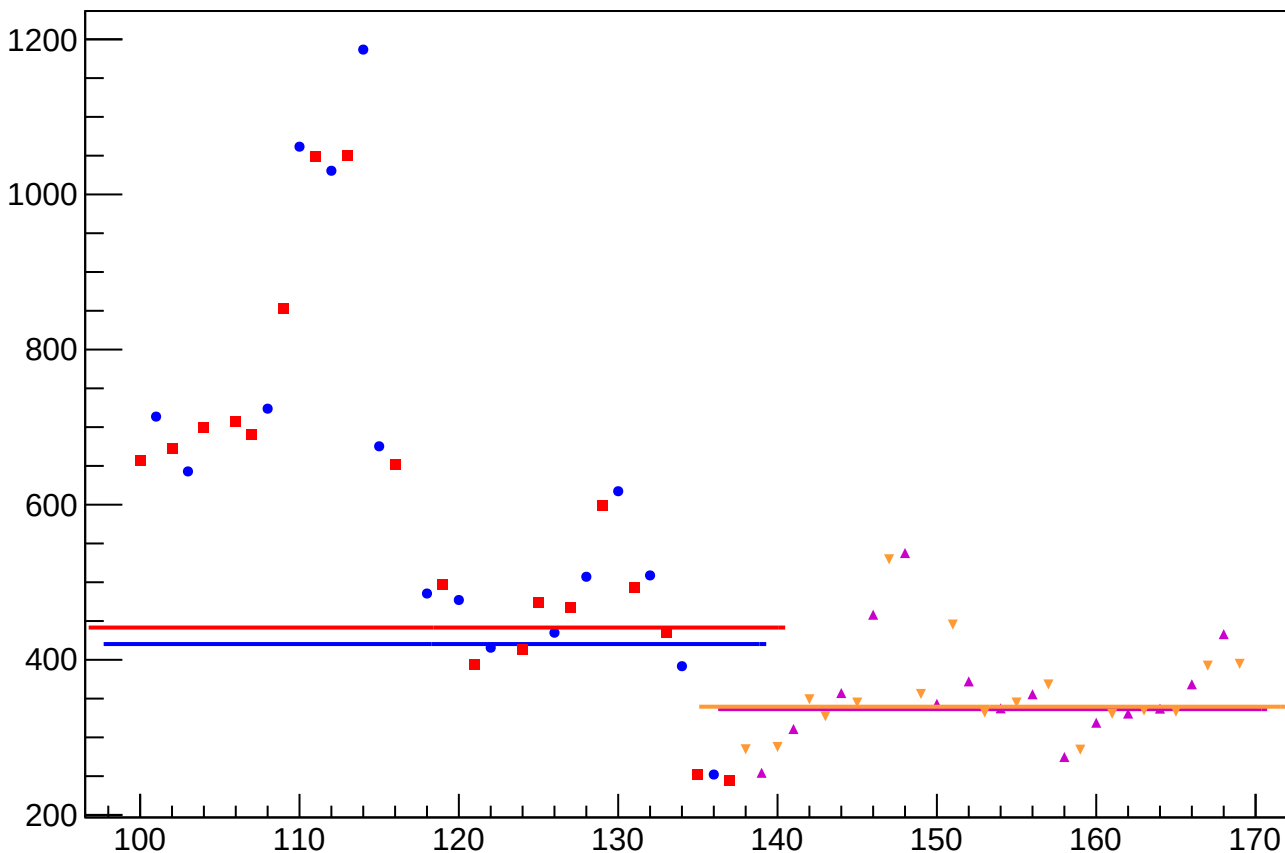
Right: -214.895 ± 122.354 $\chi^2/\text{NDF}: 26.3/34$

In: -113.968 ± 84.486 $\chi^2/\text{NDF}: 35.3/30$

Out: -42.474 ± 82.897 $\chi^2/\text{NDF}: 35.9/35$

All: -77.543 ± 59.171 $\chi^2/\text{NDF}: 71.6/66$

asym_sam1_dit_correction_rms vs Slug, Sign Corrected



Right In: 420.329+/-0.120 χ^2/NDF : 2254610.0/15

Left Out: 339.556+/-0.066 χ^2/NDF : 557491.6/16

Right Out: 441.598+/-0.125 χ^2/NDF : 2307588.5/18

Left In: 336.387+/-0.069 χ^2/NDF : 754649.5/14

Left: 338.027+/-0.048 χ^2/NDF : 1313239.1/31

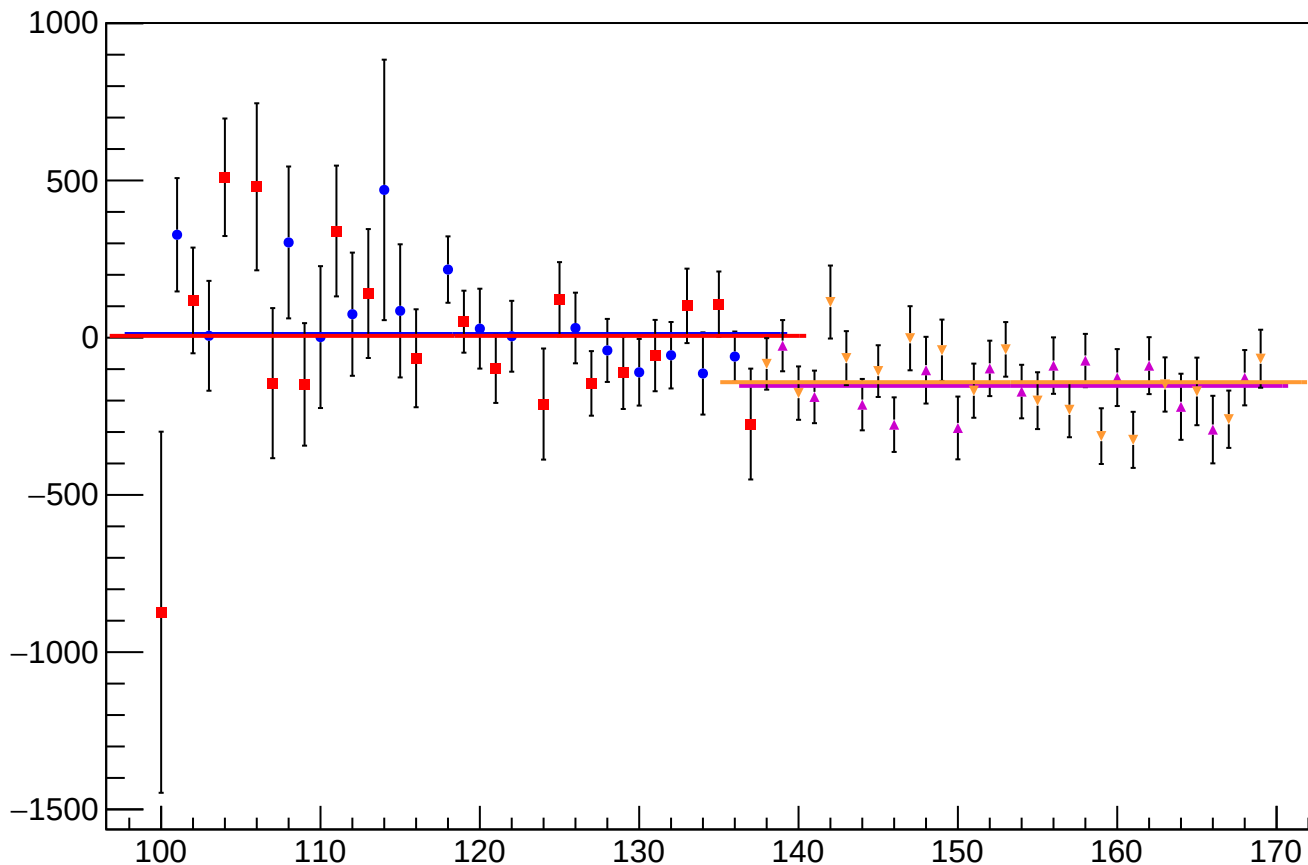
Right: 430.598+/-0.087 χ^2/NDF : 4577288.4/34

In: 357.087+/-0.060 χ^2/NDF : 3376074.4/30

Out: 362.170+/-0.059 χ^2/NDF : 3387837.1/35

All: 359.677+/-0.042 χ^2/NDF : 6767601.1/66

eigen_dit_asym_sam1_mean vs Slug, Sign Corrected



Right In: 11.652 ± 32.297 $\chi^2/\text{NDF}: 13.5/15$

Left Out: -141.467 ± 21.923 $\chi^2/\text{NDF}: 22.8/16$

Right Out: 5.816 ± 32.444 $\chi^2/\text{NDF}: 28.8/18$

Left In: -153.103 ± 23.275 $\chi^2/\text{NDF}: 11.8/14$

Left: -146.937 ± 15.959 $\chi^2/\text{NDF}: 34.8/31$

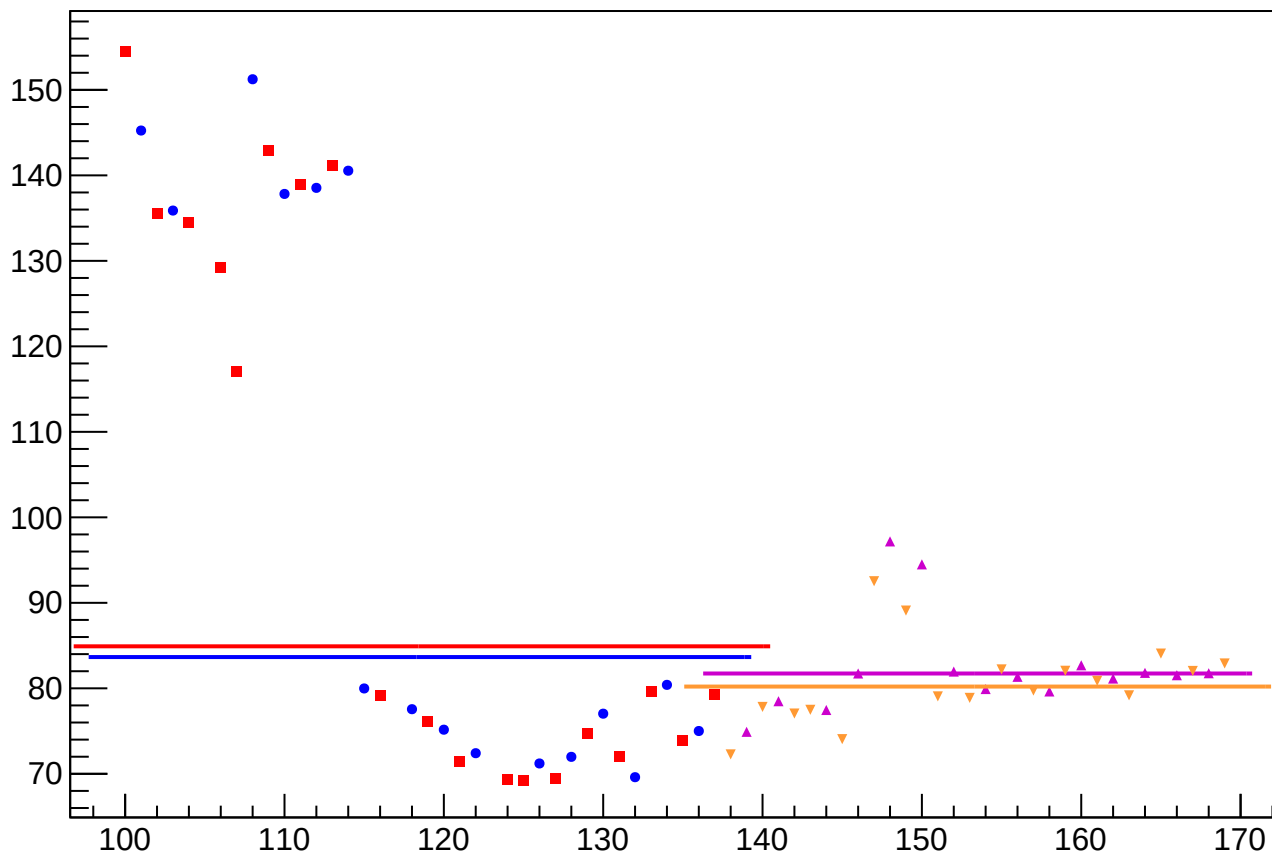
Right: 8.747 ± 22.889 $\chi^2/\text{NDF}: 42.3/34$

In: -96.787 ± 18.883 $\chi^2/\text{NDF}: 42.5/30$

Out: -95.297 ± 18.165 $\chi^2/\text{NDF}: 65.7/35$

All: -96.013 ± 13.091 $\chi^2/\text{NDF}: 108.2/66$

eigen_dit_asym_sam1_rms vs Slug, Sign Corrected



Right In: 83.657 $\pm$ 0.023 χ^2 /NDF: 1034794.1/15

Left Out: 80.206 $\pm$ 0.016 χ^2 /NDF:89078.4/16

Right Out: 84.913 $\pm$ 0.023 χ^2 /NDF: 1121668.5/18

Left In: 81.734 $\pm$ 0.016 χ^2 /NDF:100134.1/14

Left: 80.924 $\pm$ 0.011 χ^2 /NDF: 193778.6/31

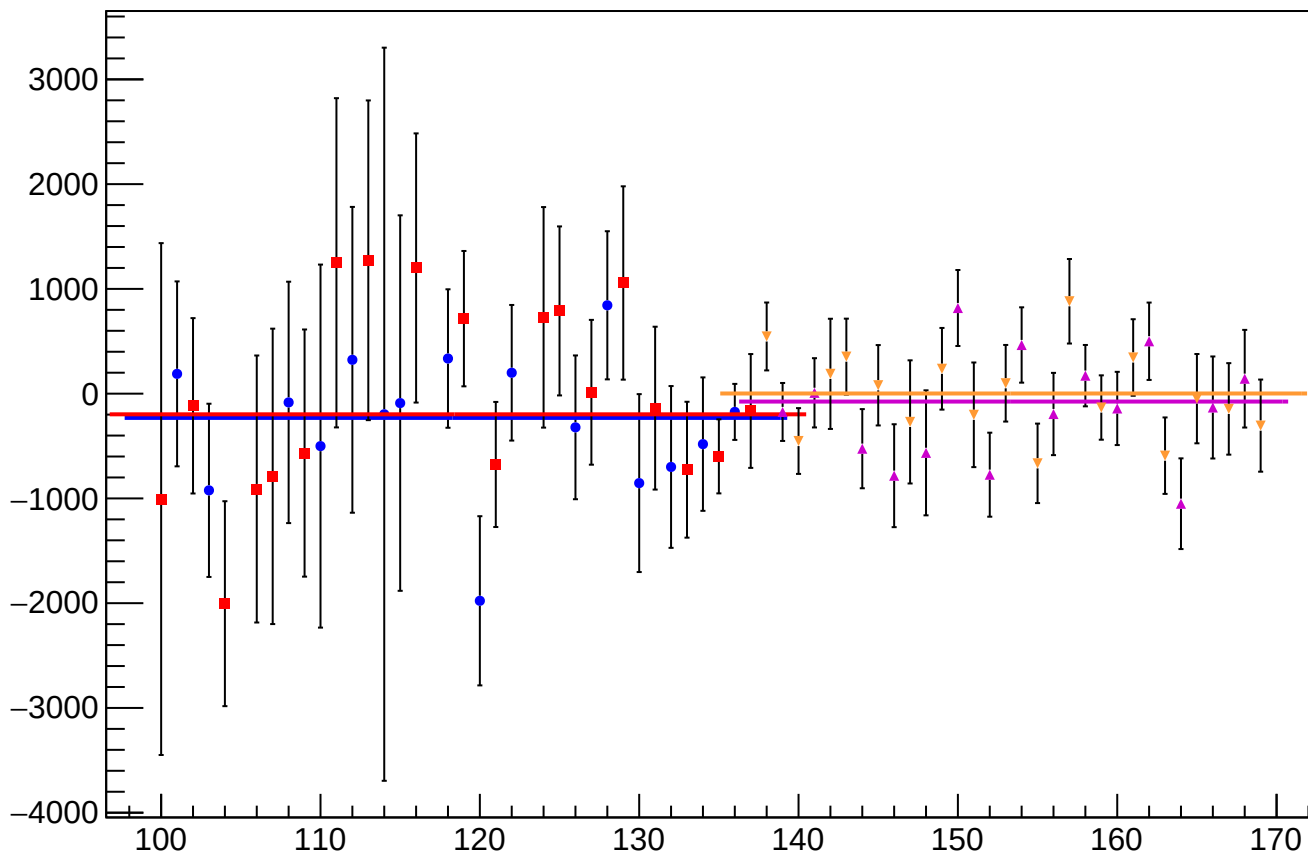
Right: 84.282 $\pm$ 0.016 χ^2 /NDF: 2157967.8/34

In: 82.391 $\pm$ 0.013 χ^2 /NDF:1139595.5/30

Out: 81.682 $\pm$ 0.013 χ^2 /NDF:1239645.8/35

All: 82.023 $\pm$ 0.009 χ^2 /NDF: 2380708.4/66

asym_sam1_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -231.405 ± 170.132 $\chi^2/\text{NDF}: 10.4/15$

Left Out: 1.581 ± 93.960 $\chi^2/\text{NDF}: 19.0/16$

Right Out: -197.207 ± 176.091 $\chi^2/\text{NDF}: 15.9/18$

Left In: -75.529 ± 97.335 $\chi^2/\text{NDF}: 24.3/14$

Left: -35.614 ± 67.601 $\chi^2/\text{NDF}: 43.6/31$

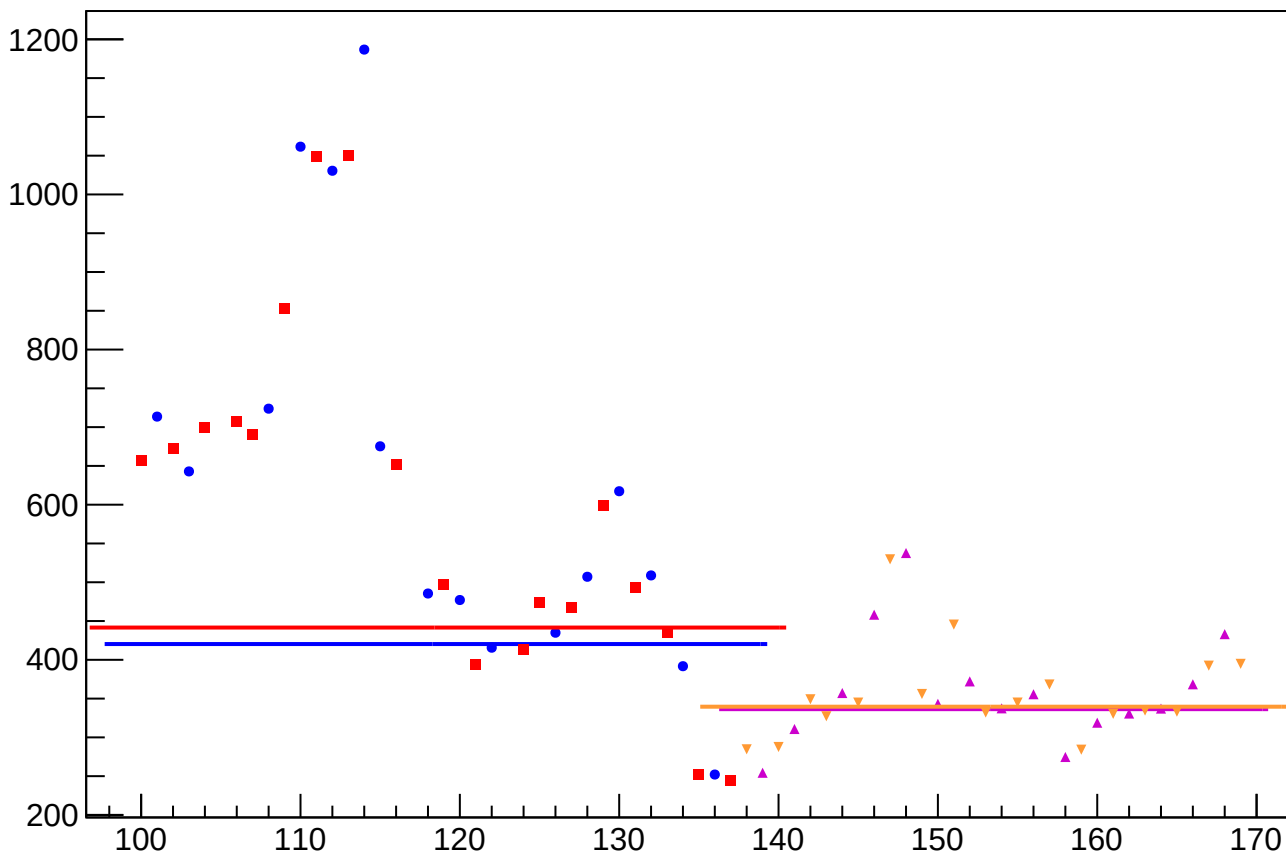
Right: -214.894 ± 122.354 $\chi^2/\text{NDF}: 26.3/34$

In: -113.968 ± 84.486 $\chi^2/\text{NDF}: 35.3/30$

Out: -42.474 ± 82.897 $\chi^2/\text{NDF}: 35.9/35$

All: -77.542 ± 59.171 $\chi^2/\text{NDF}: 71.6/66$

asym_sam1_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 420.329+/-0.120 χ^2/NDF : 2254614.9/15

Left Out: 339.556+/-0.066 χ^2/NDF : 557491.9/16

Right Out: 441.597+/-0.125 χ^2/NDF : 2307595.1/18

Left In: 336.386+/-0.069 χ^2/NDF : 754651.8/14

Left: 338.027+/-0.048 χ^2/NDF : 1313241.6/31

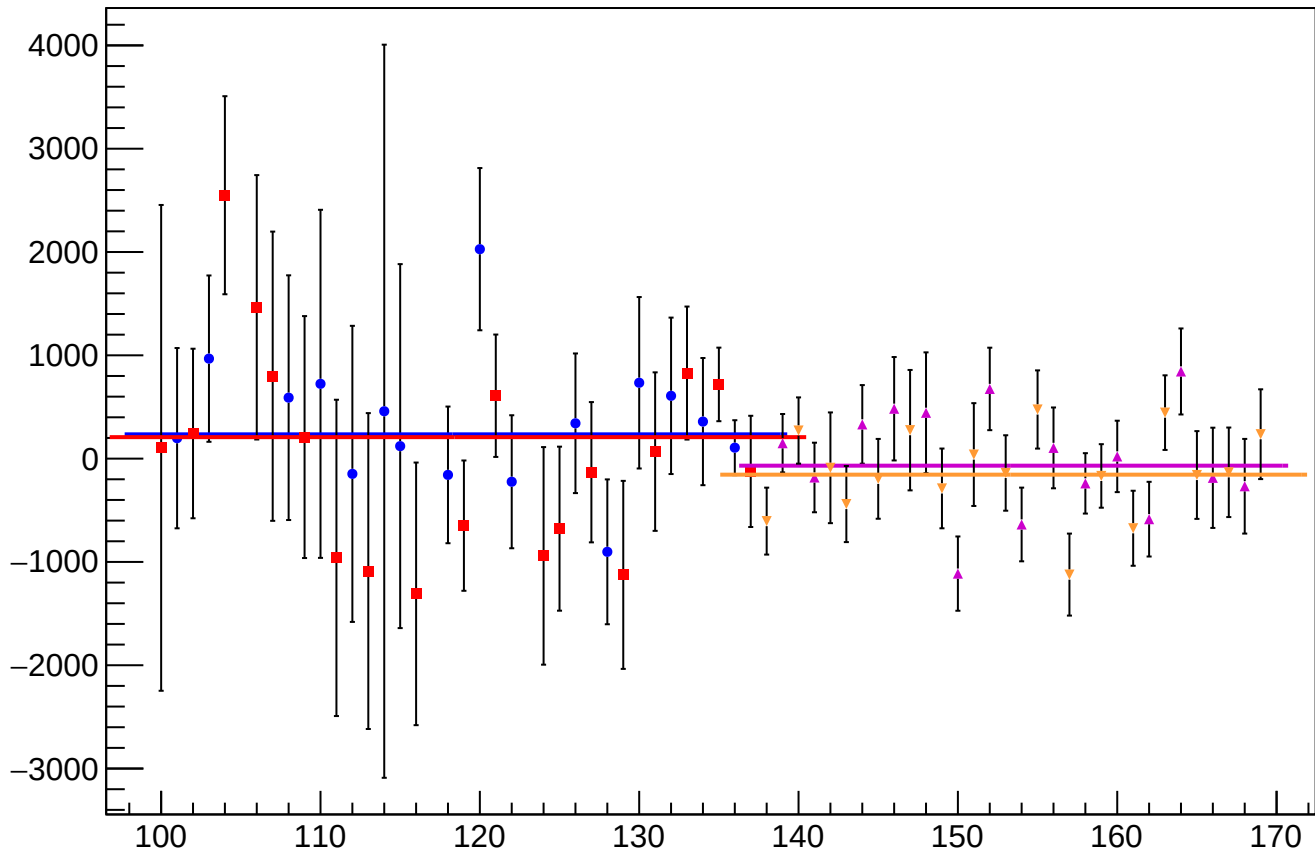
Right: 430.597+/-0.087 χ^2/NDF : 4577299.7/34

In: 357.086+/-0.060 χ^2/NDF : 3376077.7/30

Out: 362.170+/-0.059 χ^2/NDF : 3387838.2/35

All: 359.677+/-0.042 χ^2/NDF : 6767605.4/66

asym_sam1_mean vs Slug, Sign Corrected



Right In: 235.054+/-168.199 χ^2/NDF : 10.7/15

Left Out: -155.242+/-93.938 χ^2/NDF :19.5/16

Right Out: 207.936+/-174.716 χ^2/NDF : 20.4/18

Left In: -68.202+/-97.090 χ^2/NDF :25.9/14

Left: -113.158+/-67.511 χ^2/NDF : 45.9/31

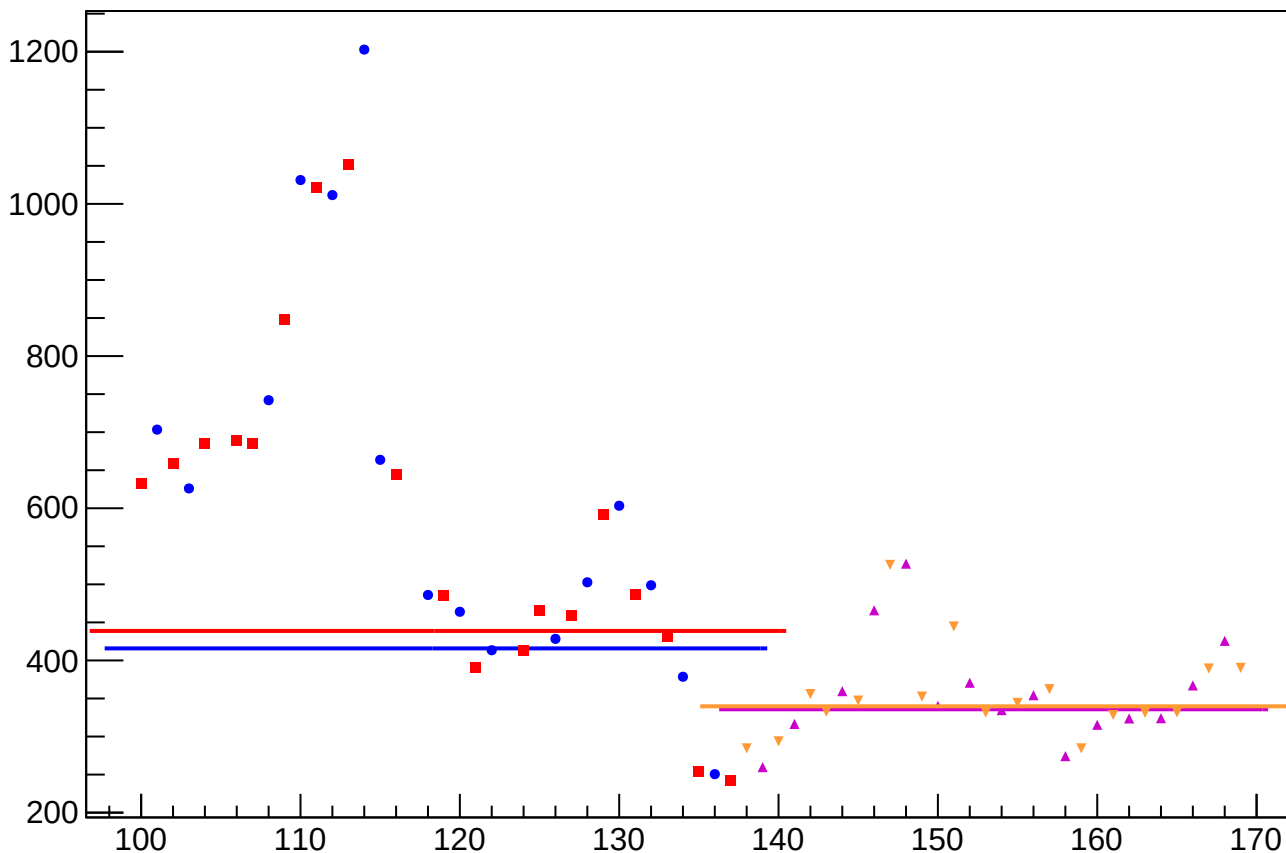
Right: 222.010+/-121.173 χ^2/NDF : 31.1/34

In: 7.589+/-84.087 χ^2/NDF :39.1/30

Out: -73.798+/-82.737 χ^2/NDF :43.2/35

All: -33.763+/-58.975 χ^2/NDF : 82.8/66

asym_sam1_rms vs Slug, Sign Corrected



Right In: 415.840 $\pm$ 0.119 χ^2 /NDF: 2223949.6/15

Left Out: 339.731 $\pm$ 0.066 χ^2 /NDF: 526804.3/16

Right Out: 438.773 $\pm$ 0.124 χ^2 /NDF: 2234776.6/18

Left In: 335.809 $\pm$ 0.069 χ^2 /NDF: 713304.4/14

Left: 337.835 $\pm$ 0.048 χ^2 /NDF: 1241794.7/31

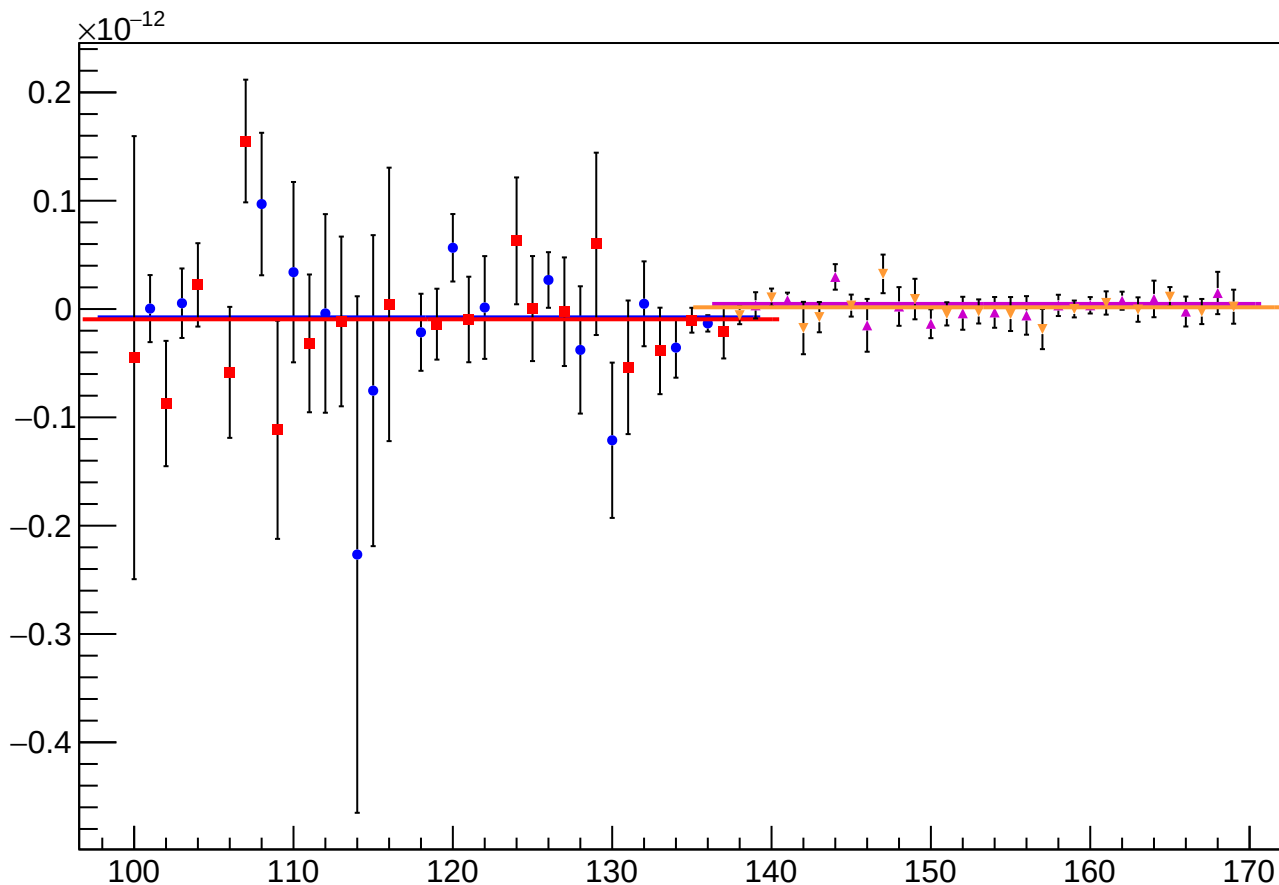
Right: 426.871 $\pm$ 0.086 χ^2 /NDF: 4476610.3/34

In: 355.811 $\pm$ 0.059 χ^2 /NDF: 3276879.6/30

Out: 361.942 $\pm$ 0.059 χ^2 /NDF: 3260145.7/35

All: 358.926 $\pm$ 0.042 χ^2 /NDF: 6542427.8/66

asym_sam1_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.8/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 9.5/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 16.3/18

Left In: 0.000 ± 0.000 χ^2/NDF : 9.0/14

Left: 0.000 ± 0.000 χ^2/NDF : 19.1/31

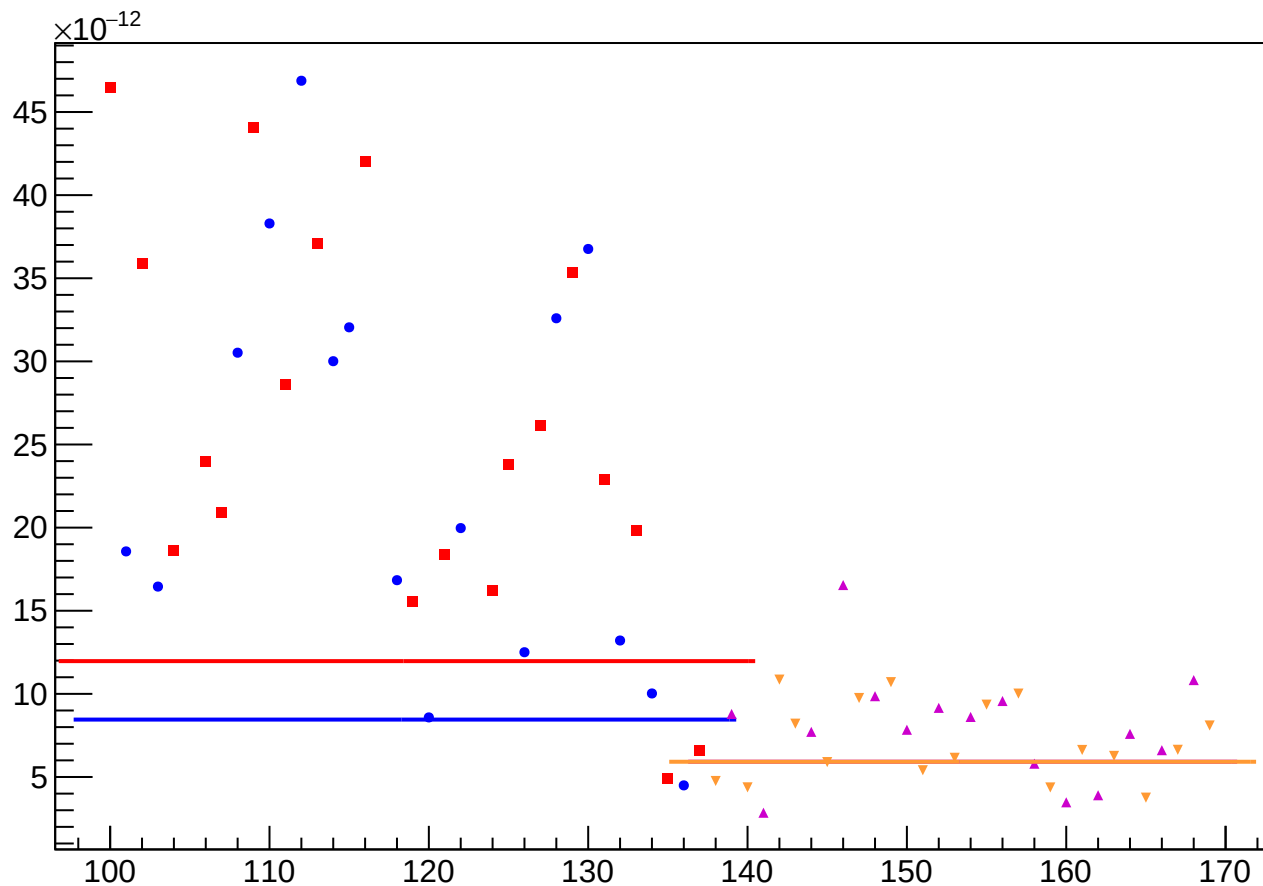
Right: -0.000 ± 0.000 χ^2/NDF : 31.1/34

In: 0.000 ± 0.000 χ^2/NDF : 27.1/30

Out: 0.000 ± 0.000 χ^2/NDF : 27.5/35

All: 0.000 ± 0.000 χ^2/NDF : 54.8/66

asym_sam1_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2756090.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 921870.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2760154.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 1782209.0/14

Left: 0.000+/-0.000 χ^2/NDF : 2704079.9/31

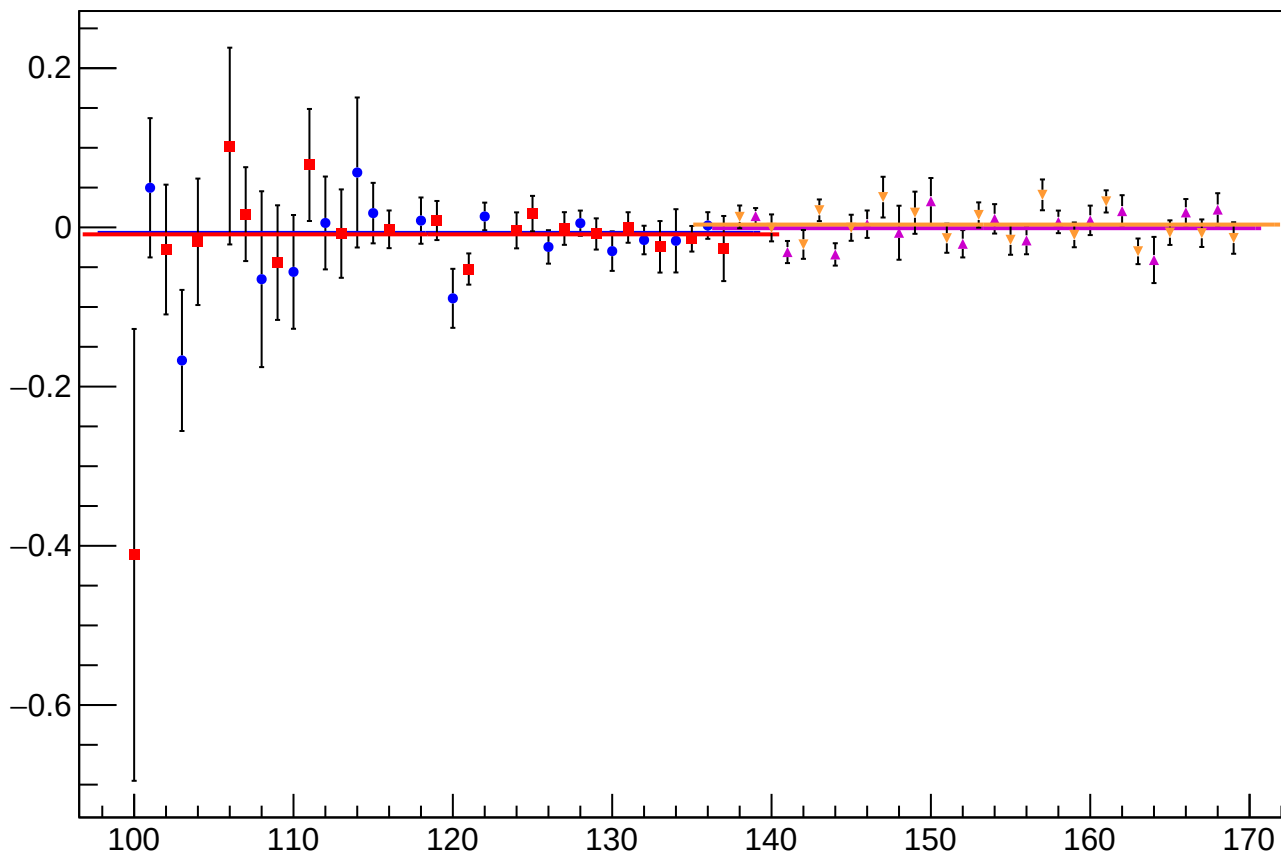
Right: 0.000+/-0.000 χ^2/NDF : 5753139.7/34

In: 0.000+/-0.000 χ^2/NDF : 4811749.3/30

Out: 0.000+/-0.000 χ^2/NDF : 4672378.4/35

All: 0.000+/-0.000 χ^2/NDF : 9486428.0/66

asym_sam1_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.007 χ^2/NDF : 14.9/15

Left Out: 0.004 ± 0.004 χ^2/NDF : 23.5/16

Right Out: -0.009 ± 0.006 χ^2/NDF : 12.6/18

Left In: -0.001 ± 0.004 χ^2/NDF : 22.8/14

Left: 0.001 ± 0.003 χ^2/NDF : 46.9/31

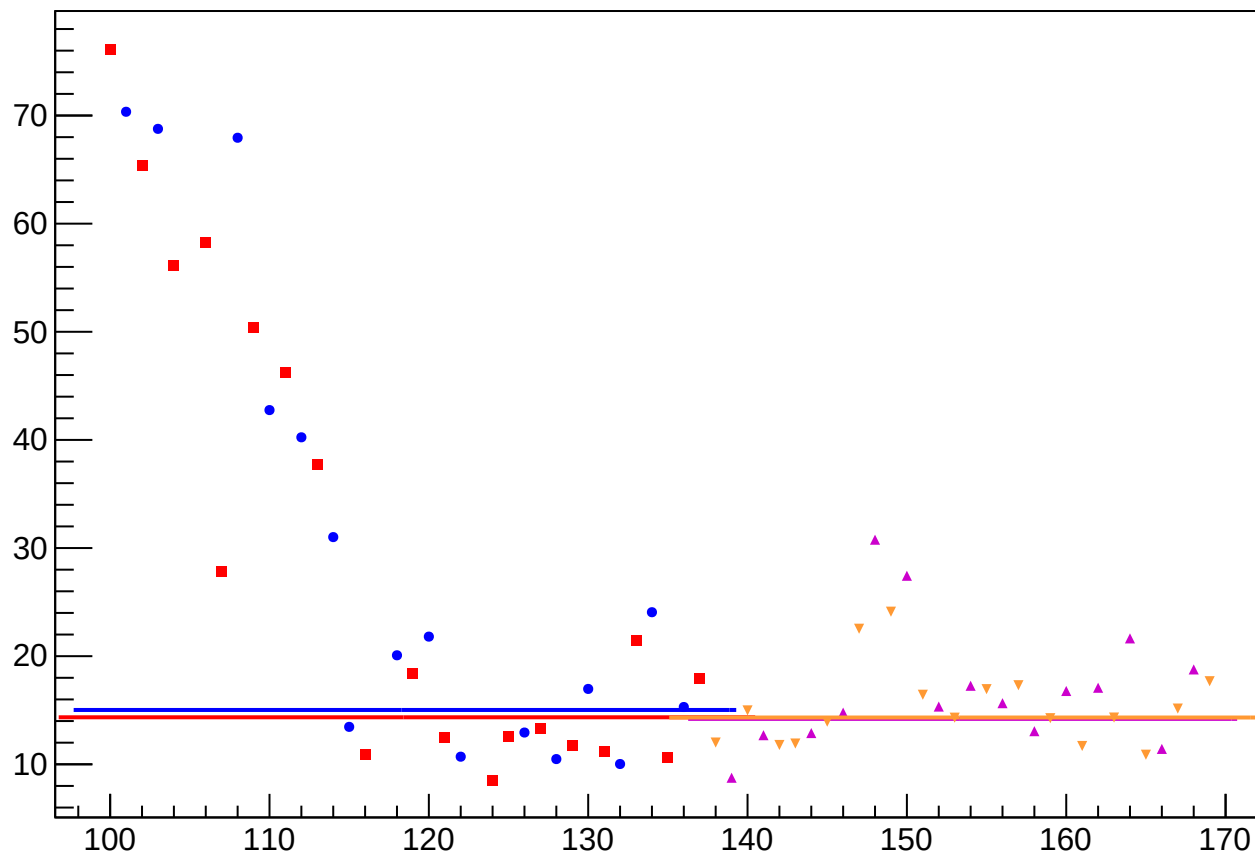
Right: -0.008 ± 0.005 χ^2/NDF : 27.6/34

In: -0.003 ± 0.004 χ^2/NDF : 38.2/30

Out: -0.000 ± 0.003 χ^2/NDF : 38.8/35

All: -0.001 ± 0.003 χ^2/NDF : 77.3/66

asym_sam1_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 15.026 $\pm$ 0.005 χ^2 /NDF: 3438260.9/15

Left Out: 14.328 $\pm$ 0.003 χ^2 /NDF: 983289.7/16

Right Out: 14.348 $\pm$ 0.005 χ^2 /NDF: 3629014.9/18

Left In: 14.201 $\pm$ 0.003 χ^2 /NDF: 1978081.4/14

Left: 14.268 $\pm$ 0.002 χ^2 /NDF: 2962270.3/31

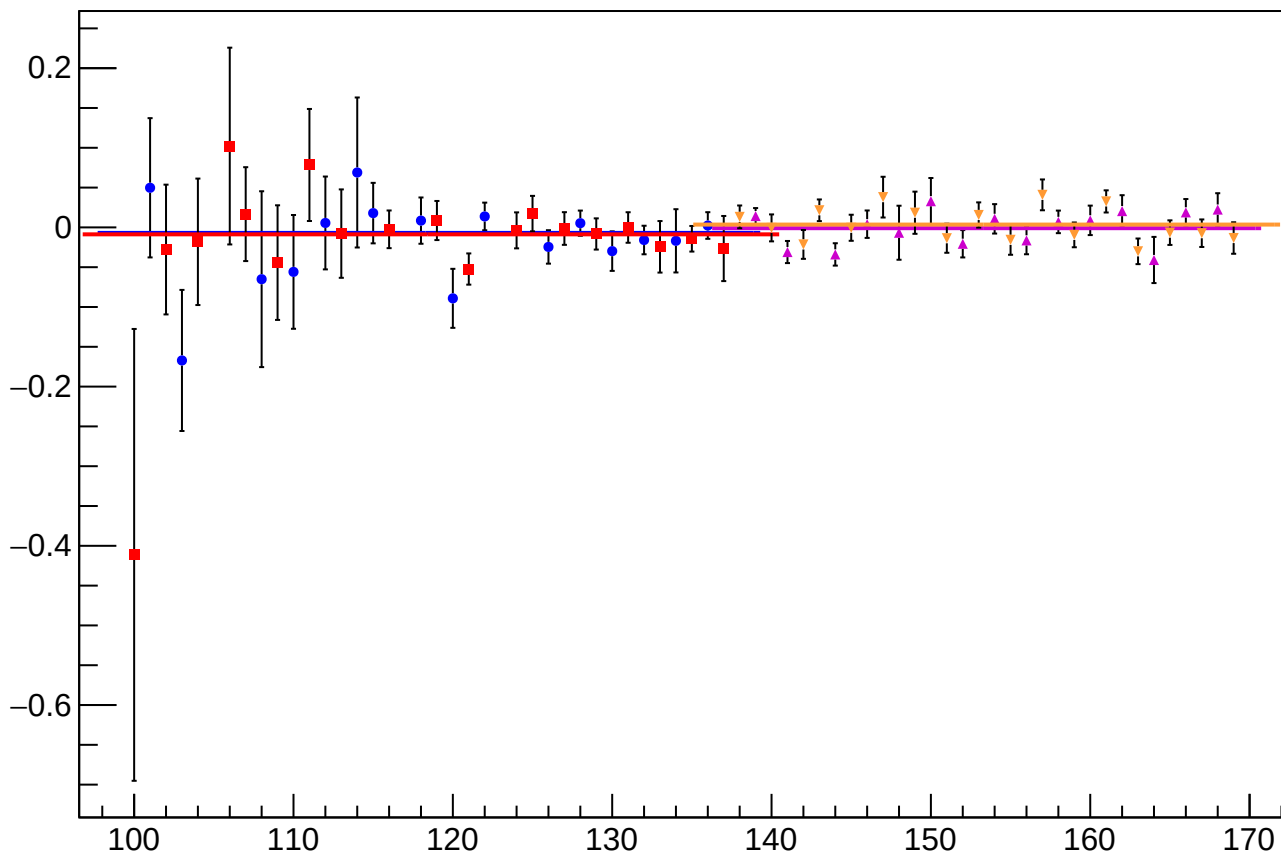
Right: 14.669 $\pm$ 0.003 χ^2 /NDF: 7077933.0/34

In: 14.444 $\pm$ 0.003 χ^2 /NDF: 5437505.5/30

Out: 14.334 $\pm$ 0.002 χ^2 /NDF: 4612319.2/35

All: 14.386 $\pm$ 0.002 χ^2 /NDF: 10050787.5/66

asym_sam1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.007 χ^2/NDF : 14.9/15

Left Out: 0.004 ± 0.004 χ^2/NDF : 23.5/16

Right Out: -0.009 ± 0.006 χ^2/NDF : 12.6/18

Left In: -0.001 ± 0.004 χ^2/NDF : 22.8/14

Left: 0.001 ± 0.003 χ^2/NDF : 46.9/31

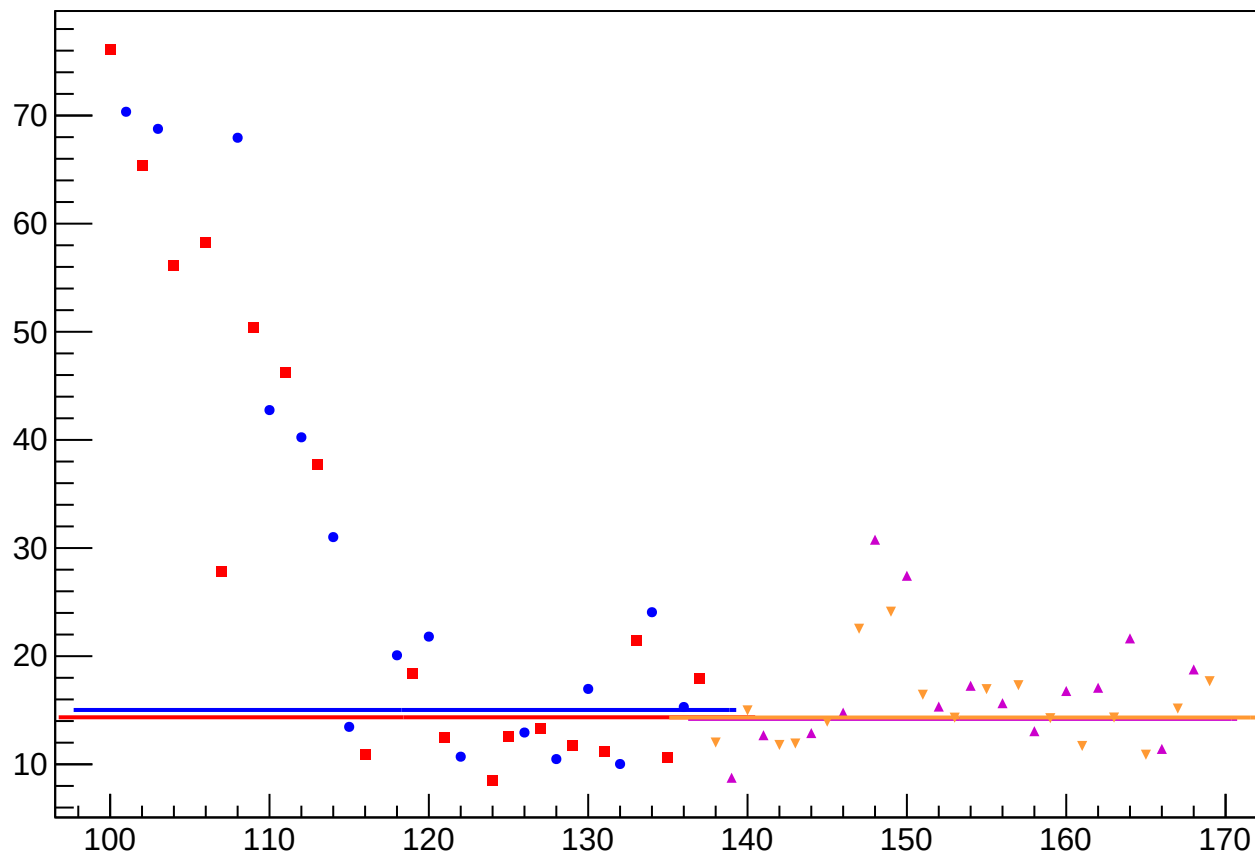
Right: -0.008 ± 0.005 χ^2/NDF : 27.6/34

In: -0.003 ± 0.004 χ^2/NDF : 38.2/30

Out: -0.000 ± 0.003 χ^2/NDF : 38.8/35

All: -0.001 ± 0.003 χ^2/NDF : 77.3/66

asym_sam1_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 15.026 $\pm$ 0.005 χ^2 /NDF: 3438260.9/15

Left Out: 14.328 $\pm$ 0.003 χ^2 /NDF:983289.7/16

Right Out: 14.348 $\pm$ 0.005 χ^2 /NDF: 3629014.9/18

Left In: 14.201 $\pm$ 0.003 χ^2 /NDF:1978081.4/14

Left: 14.268 $\pm$ 0.002 χ^2 /NDF: 2962270.3/31

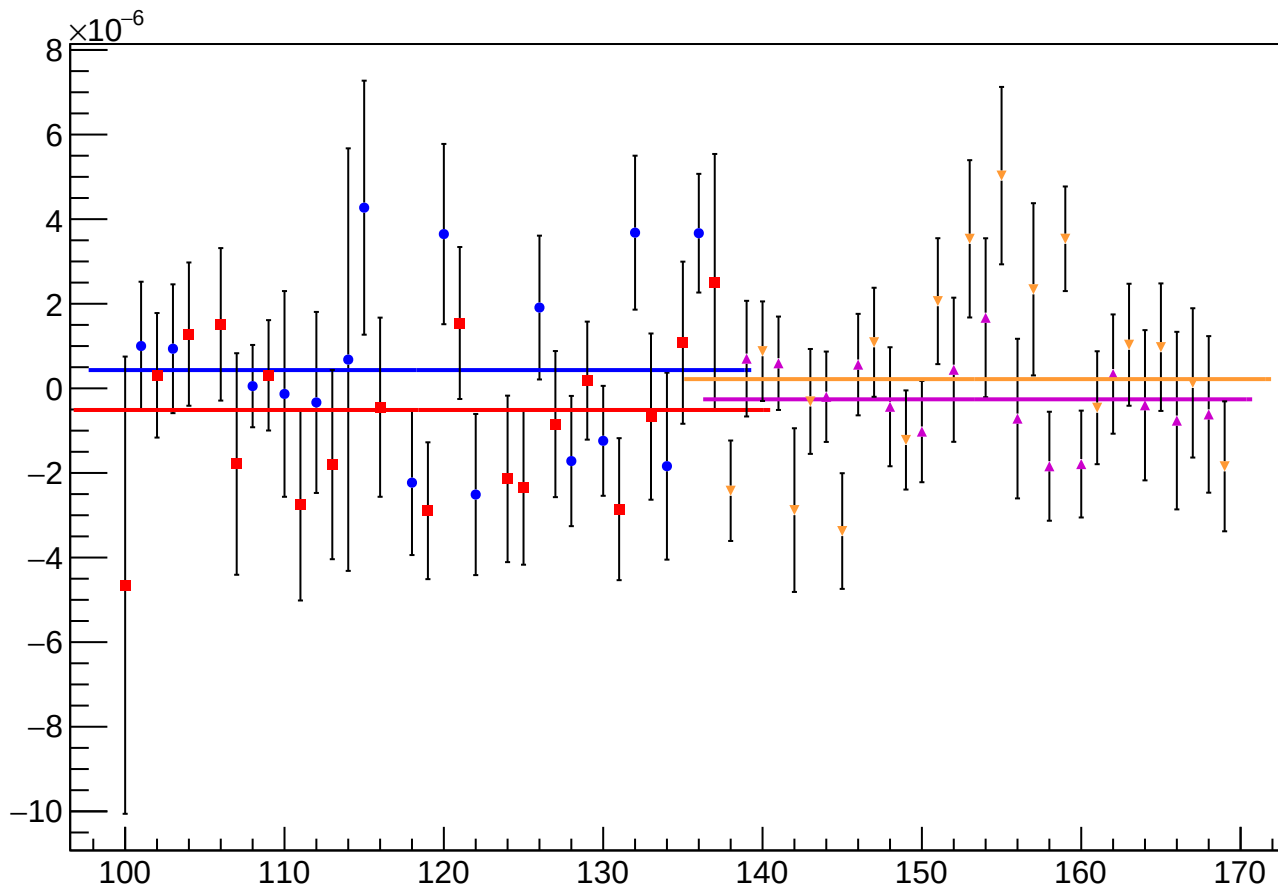
Right: 14.669 $\pm$ 0.003 χ^2 /NDF: 7077933.0/34

In: 14.444 $\pm$ 0.003 χ^2 /NDF:5437505.5/30

Out: 14.334 $\pm$ 0.002 χ^2 /NDF:4612319.2/35

All: 14.386 $\pm$ 0.002 χ^2 /NDF: 10050787.5/66

asym_sam1_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 37.8/16

Right Out: -0.000+/-0.000 χ^2/NDF : 14.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 6.5/14

Left: -0.000+/-0.000 χ^2/NDF : 45.2/31

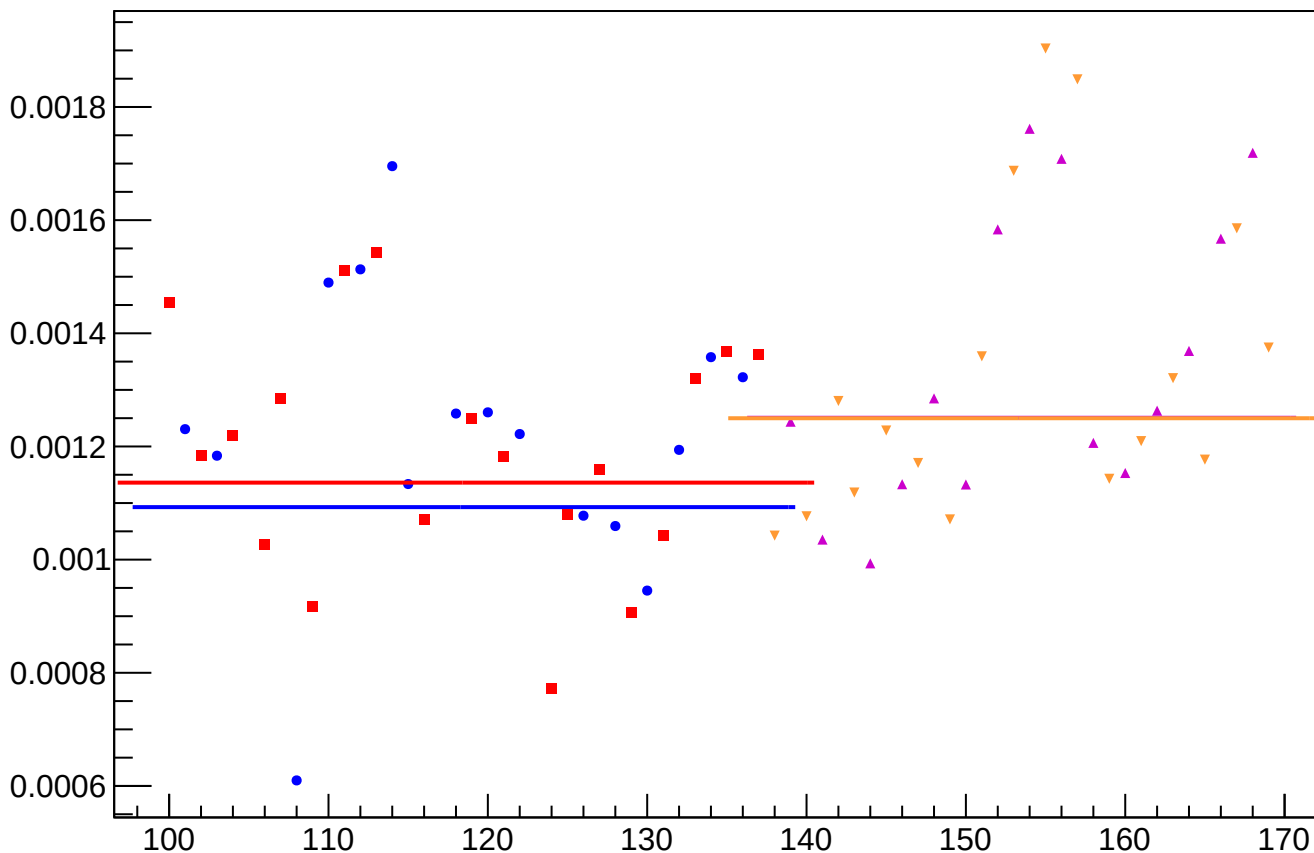
Right: -0.000+/-0.000 χ^2/NDF : 40.0/34

In: 0.000+/-0.000 χ^2/NDF : 31.3/30

Out: -0.000+/-0.000 χ^2/NDF : 53.8/35

All: -0.000+/-0.000 χ^2/NDF : 85.2/66

asym_sam1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 831840.7/15

Left Out: 0.001+/-0.000 χ^2/NDF : 782577.9/16

Right Out: 0.001+/-0.000 χ^2/NDF : 407257.8/18

Left In: 0.001+/-0.000 χ^2/NDF : 770634.7/14

Left: 0.001+/-0.000 χ^2/NDF : 1553218.1/31

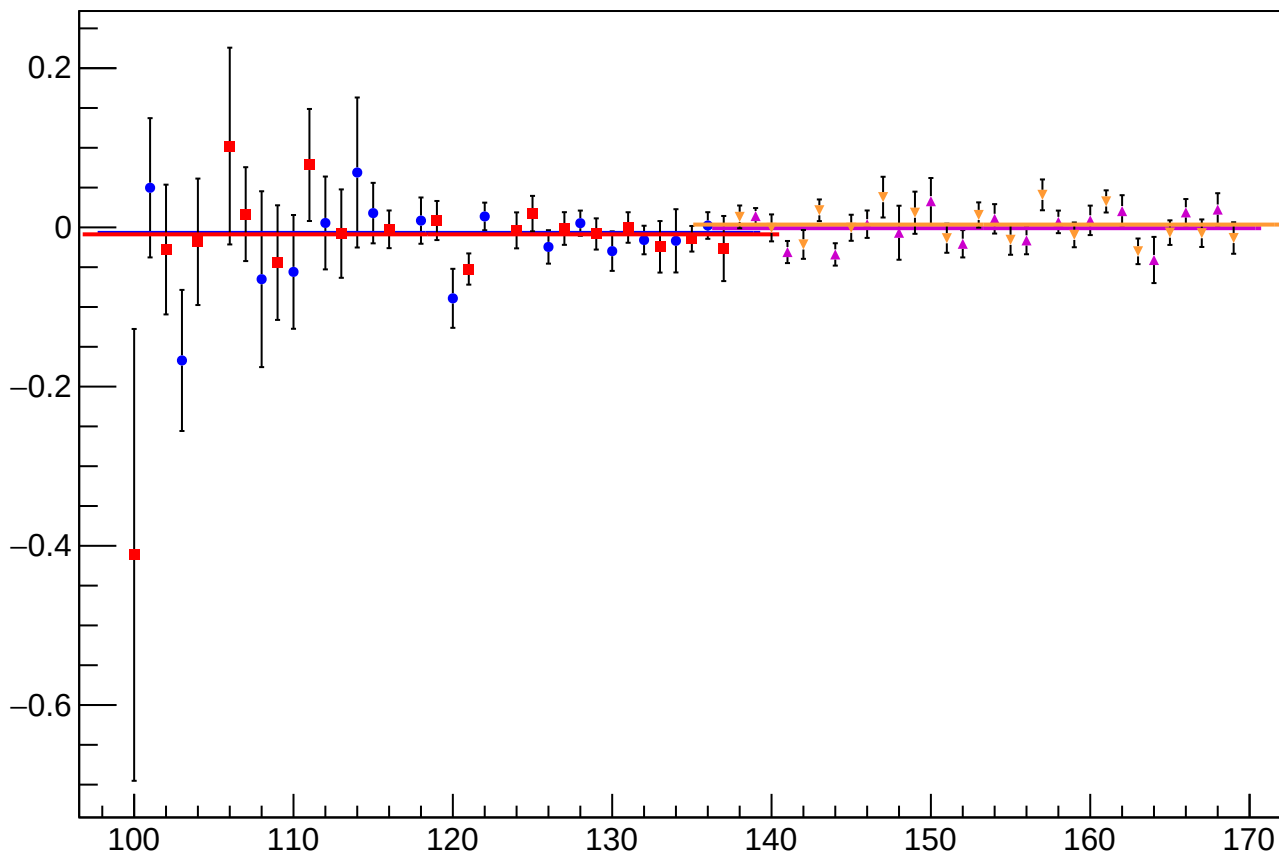
Right: 0.001+/-0.000 χ^2/NDF : 1249651.9/34

In: 0.001+/-0.000 χ^2/NDF : 1764548.3/30

Out: 0.001+/-0.000 χ^2/NDF : 1276423.1/35

All: 0.001+/-0.000 χ^2/NDF : 3046849.7/66

asym_sam1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.007 χ^2/NDF : 14.9/15

Left Out: 0.004 ± 0.004 χ^2/NDF : 23.5/16

Right Out: -0.009 ± 0.006 χ^2/NDF : 12.6/18

Left In: -0.001 ± 0.004 χ^2/NDF : 22.8/14

Left: 0.001 ± 0.003 χ^2/NDF : 46.9/31

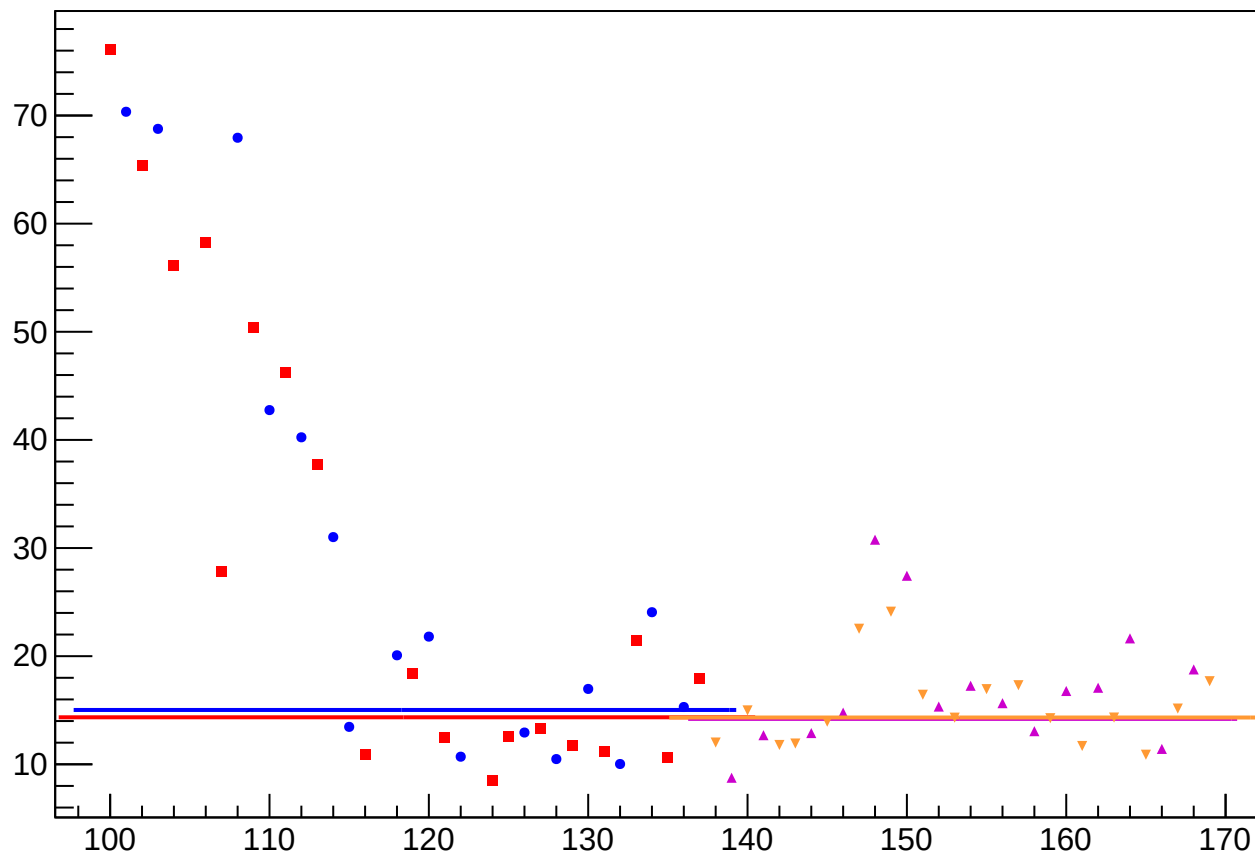
Right: -0.008 ± 0.005 χ^2/NDF : 27.6/34

In: -0.003 ± 0.004 χ^2/NDF : 38.2/30

Out: -0.000 ± 0.003 χ^2/NDF : 38.8/35

All: -0.001 ± 0.003 χ^2/NDF : 77.3/66

asym_sam1_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 15.025+/-0.005 χ^2/NDF : 3438279.3/15

Left Out: 14.328+/-0.003 χ^2/NDF : 983355.4/16

Right Out: 14.348+/-0.005 χ^2/NDF : 3629004.9/18

Left In: 14.201+/-0.003 χ^2/NDF : 1978150.3/14

Left: 14.268+/-0.002 χ^2/NDF : 2962404.7/31

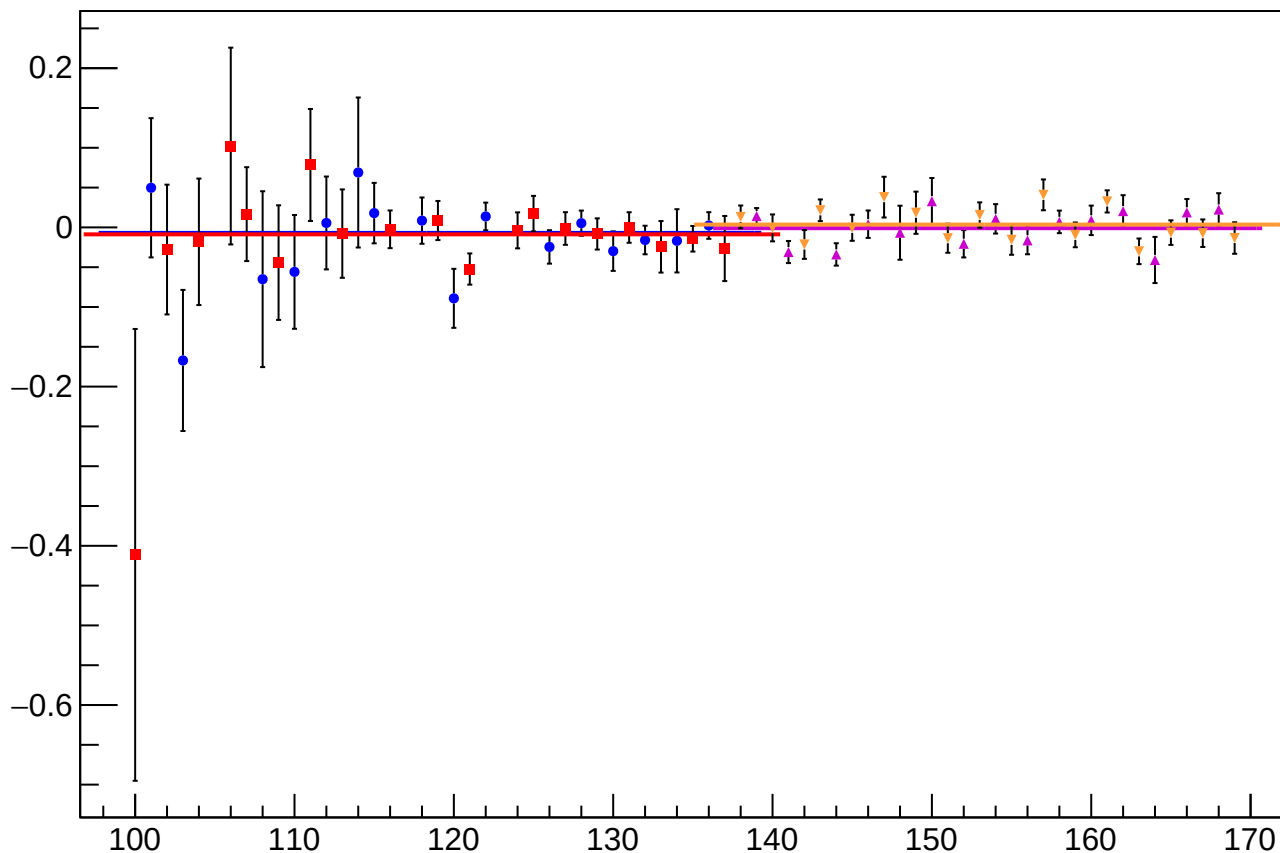
Right: 14.669+/-0.003 χ^2/NDF : 7077938.8/34

In: 14.444+/-0.003 χ^2/NDF : 5437588.1/30

Out: 14.334+/-0.002 χ^2/NDF : 4612375.0/35

All: 14.386+/-0.002 χ^2/NDF : 10050925.6/66

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.007 χ^2/NDF : 14.9/15

Left Out: 0.004 ± 0.004 χ^2/NDF : 23.5/16

Right Out: -0.009 ± 0.006 χ^2/NDF : 12.6/18

Left In: -0.001 ± 0.004 χ^2/NDF : 22.8/14

Left: 0.001 ± 0.003 χ^2/NDF : 46.9/31

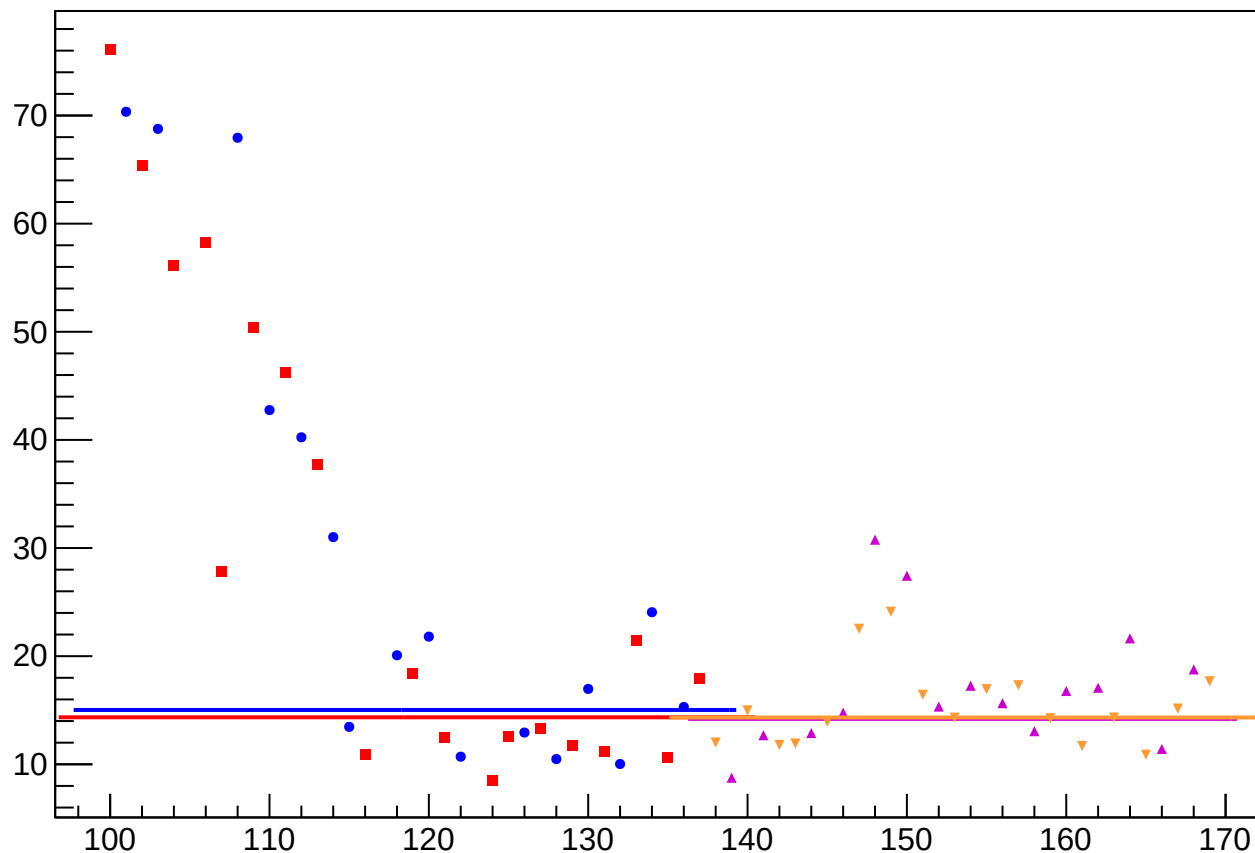
Right: -0.008 ± 0.005 χ^2/NDF : 27.6/34

In: -0.003 ± 0.004 χ^2/NDF : 38.2/30

Out: -0.000 ± 0.003 χ^2/NDF : 38.8/35

All: -0.001 ± 0.003 χ^2/NDF : 77.3/66

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 15.025 $\pm$ 0.005 χ^2 /NDF: 3438279.3/15

Left Out: 14.328 $\pm$ 0.003 χ^2 /NDF:983355.4/16

Right Out: 14.348 $\pm$ 0.005 χ^2 /NDF: 3629004.9/18

Left In: 14.201 $\pm$ 0.003 χ^2 /NDF:1978150.3/14

Left: 14.268 $\pm$ 0.002 χ^2 /NDF: 2962404.7/31

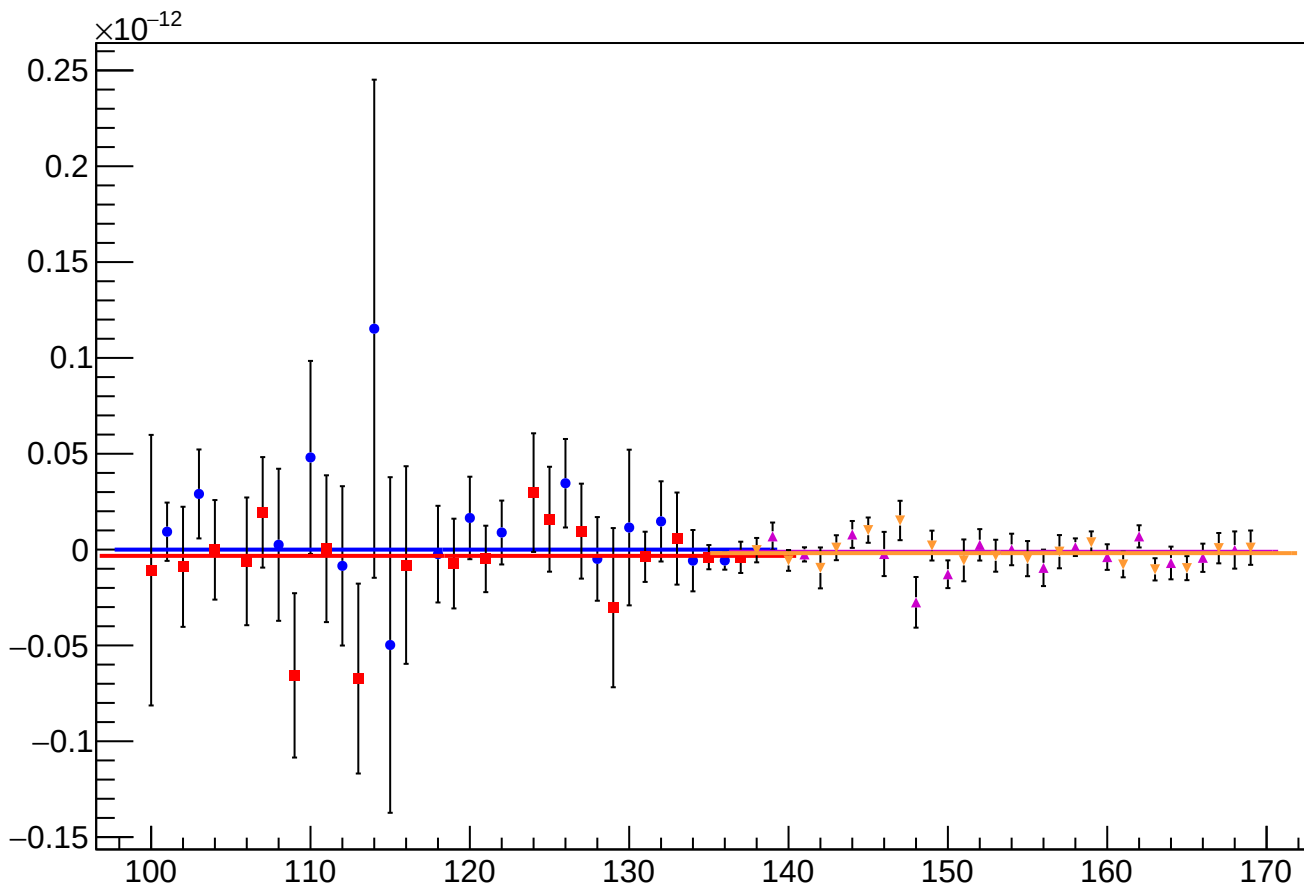
Right: 14.669 $\pm$ 0.003 χ^2 /NDF: 7077938.8/34

In: 14.444 $\pm$ 0.003 χ^2 /NDF:5437588.1/30

Out: 14.334 $\pm$ 0.002 χ^2 /NDF:4612375.0/35

All: 14.386 $\pm$ 0.002 χ^2 /NDF: 10050925.6/66

asym_sam1_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 9.3/15

Left Out: -0.000+/-0.000 χ^2/NDF :13.5/16

Right Out: -0.000+/-0.000 χ^2/NDF : 7.0/18

Left In: -0.000+/-0.000 χ^2/NDF :13.7/14

Left: -0.000+/-0.000 χ^2/NDF : 27.2/31

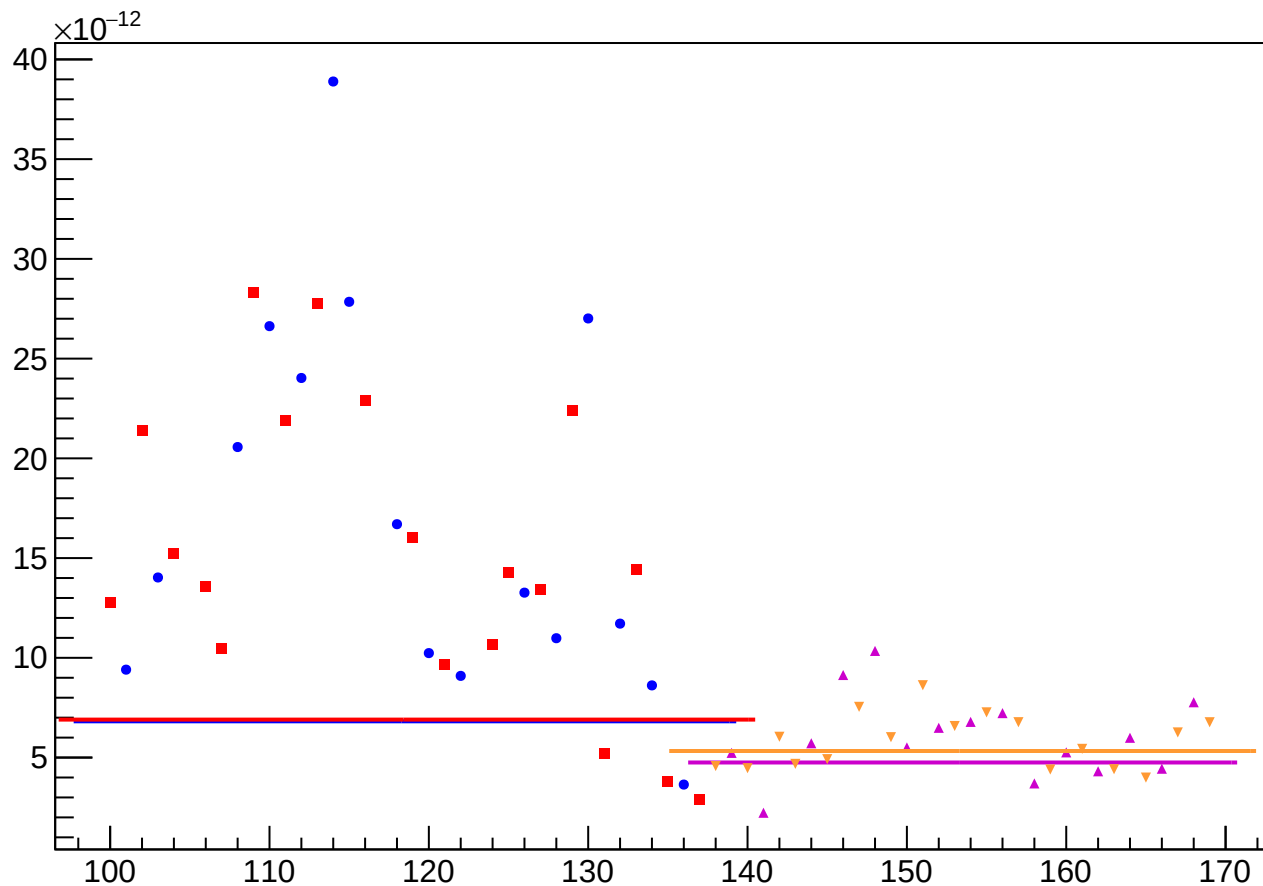
Right: -0.000+/-0.000 χ^2/NDF : 16.7/34

In: -0.000+/-0.000 χ^2/NDF :23.0/30

Out: -0.000+/-0.000 χ^2/NDF :20.6/35

All: -0.000+/-0.000 χ^2/NDF : 43.9/66

asym_sam1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3511411.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 868060.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4241227.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 2355552.0/14

Left: 0.000+/-0.000 χ^2/NDF : 3331845.1/31

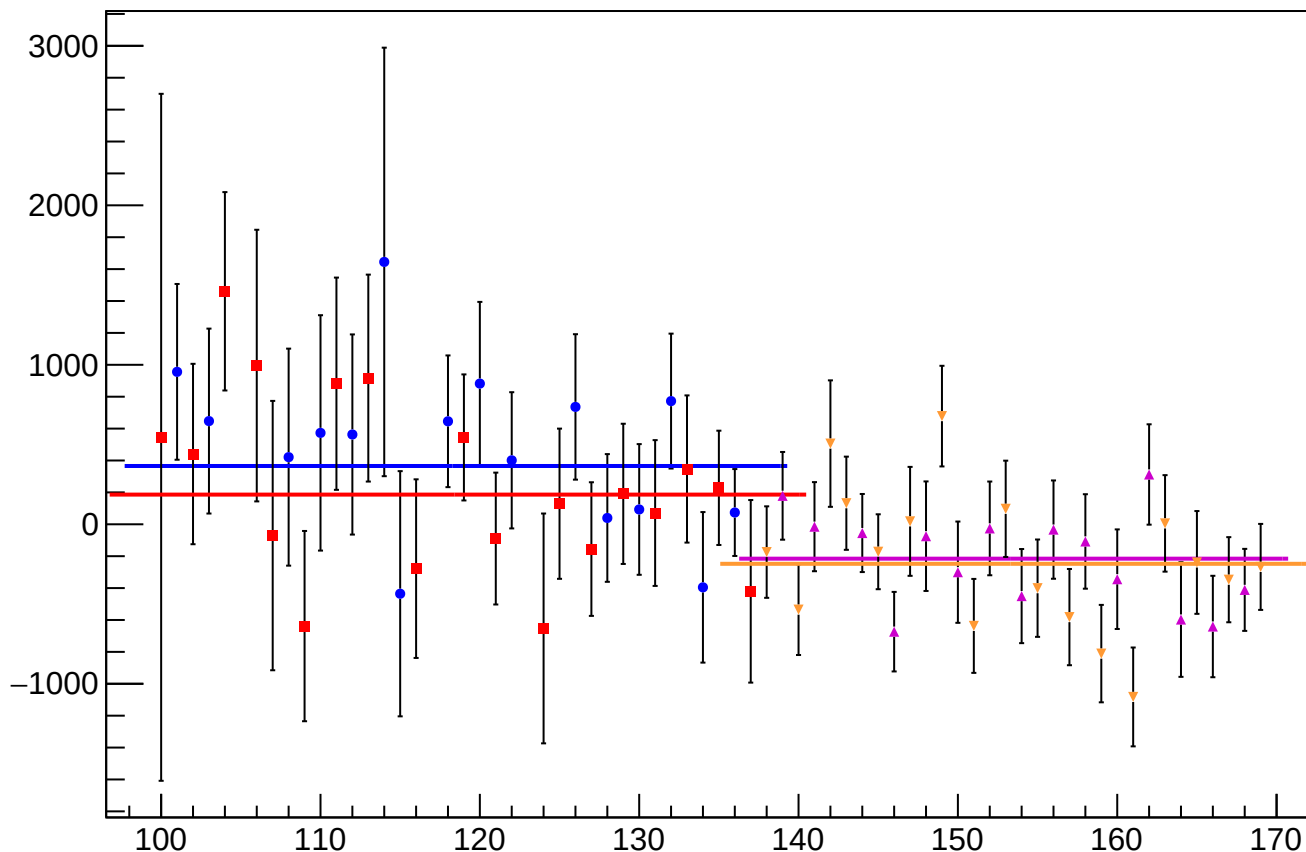
Right: 0.000+/-0.000 χ^2/NDF : 7753131.5/34

In: 0.000+/-0.000 χ^2/NDF : 6356592.6/30

Out: 0.000+/-0.000 χ^2/NDF : 5374773.6/35

All: 0.000+/-0.000 χ^2/NDF : 11819695.8/66

reg_asym_sam2_mean vs Slug, Sign Corrected



Right In: 365.540 ± 118.873 $\chi^2/\text{NDF}: 11.5/15$

Left Out: -247.839 ± 71.979 $\chi^2/\text{NDF}: 31.7/16$

Right Out: 186.141 ± 120.188 $\chi^2/\text{NDF}: 15.0/18$

Left In: -215.568 ± 75.528 $\chi^2/\text{NDF}: 14.6/14$

Left: -232.479 ± 52.106 $\chi^2/\text{NDF}: 46.5/31$

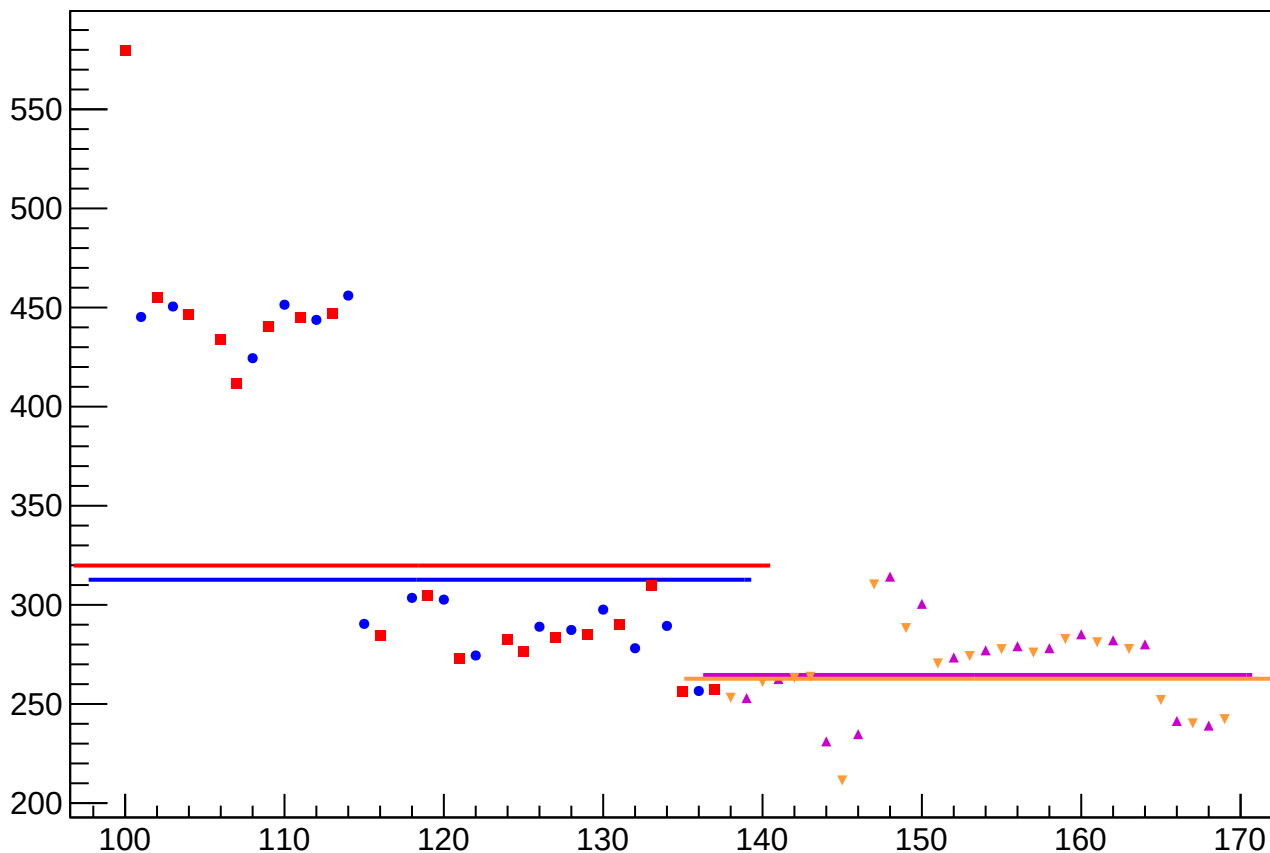
Right: 276.827 ± 84.517 $\chi^2/\text{NDF}: 27.6/34$

In: -48.446 ± 63.749 $\chi^2/\text{NDF}: 43.1/30$

Out: -133.276 ± 61.751 $\chi^2/\text{NDF}: 56.3/35$

All: -92.210 ± 44.354 $\chi^2/\text{NDF}: 100.4/66$

reg_asym_sam2_rms vs Slug, Sign Corrected



Right In: 312.683 $\pm$ 0.084 χ^2 /NDF: 602207.7/15

Left Out: 262.739 $\pm$ 0.051 χ^2 /NDF:210992.1/16

Right Out: 319.841 $\pm$ 0.085 χ^2 /NDF: 697878.1/18

Left In: 264.640 $\pm$ 0.053 χ^2 /NDF:199966.4/14

Left: 263.644 $\pm$ 0.037 χ^2 /NDF: 411622.6/31

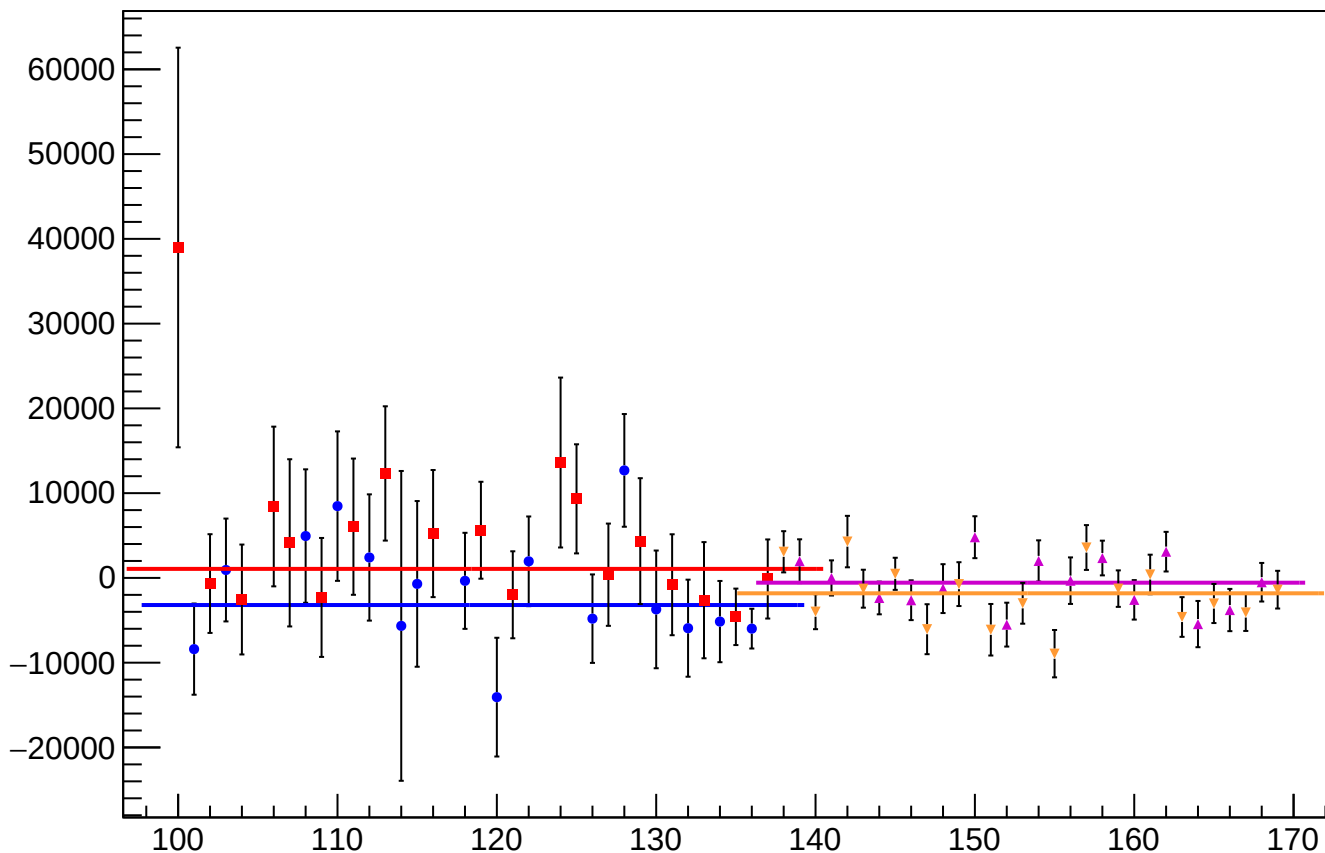
Right: 316.222 $\pm$ 0.060 χ^2 /NDF: 1303671.7/34

In: 278.457 $\pm$ 0.045 χ^2 /NDF:1034899.1/30

Out: 277.813 $\pm$ 0.044 χ^2 /NDF:1241143.3/35

All: 278.125 $\pm$ 0.031 χ^2 /NDF: 2276147.8/66

asym_sam2_reg_correction_mean vs Slug, Sign Corrected



Right In: -3198.742 $\pm$ 1353.814 χ^2 /NDF: 16.1/15

Left Out: -1815.206 $\pm$ 578.369 χ^2 /NDF:29.7/16

Right Out: 1065.939 $\pm$ 1443.326 χ^2 /NDF: 14.4/18

Left In: -563.621 $\pm$ 612.962 χ^2 /NDF:22.3/14

Left: -1225.725 $\pm$ 420.667 χ^2 /NDF: 54.2/31

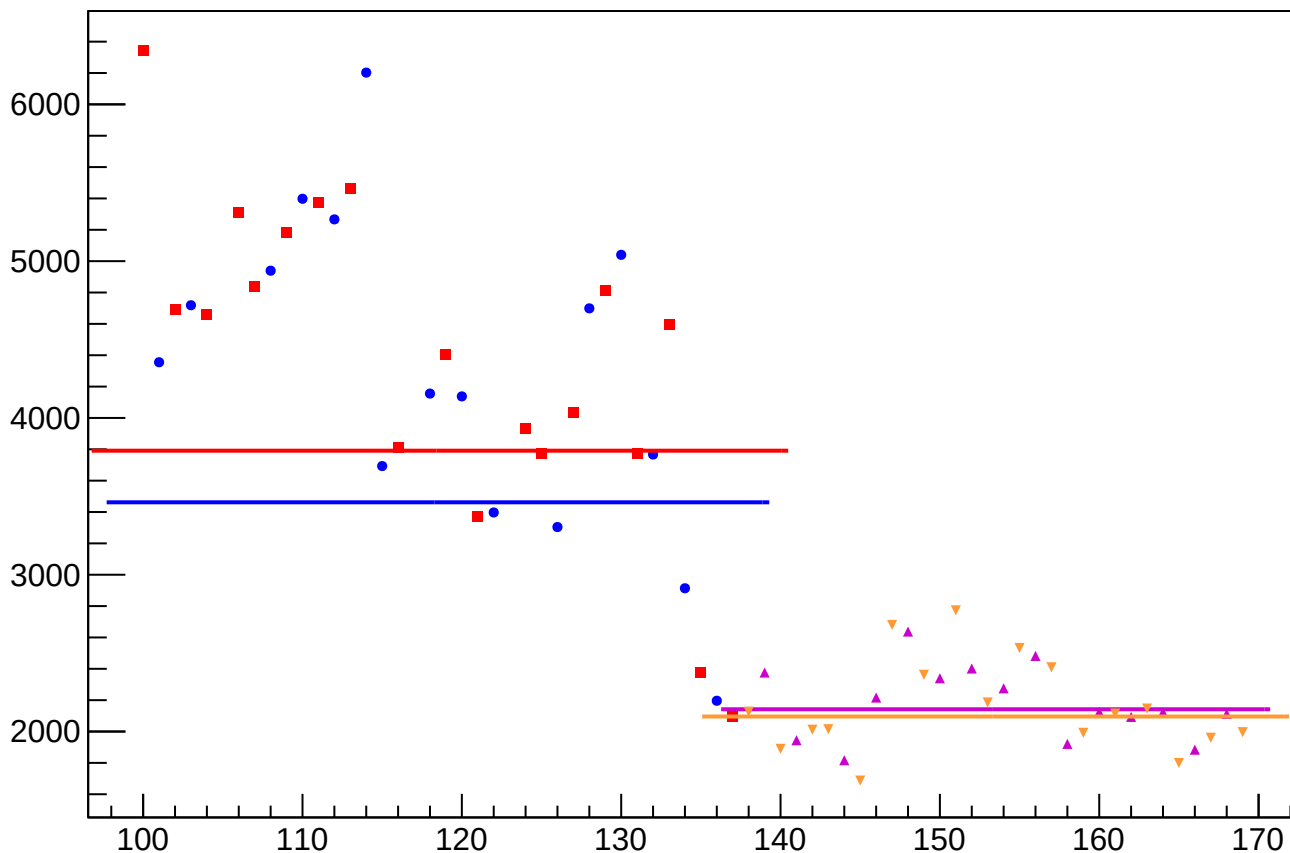
Right: -1202.738 $\pm$ 987.420 χ^2 /NDF: 35.1/34

In: -1011.915 $\pm$ 558.393 χ^2 /NDF:41.6/30

Out: -1416.573 $\pm$ 536.869 χ^2 /NDF:47.5/35

All: -1222.193 $\pm$ 387.009 χ^2 /NDF: 89.3/66

asym_sam2_reg_correction_rms vs Slug, Sign Corrected



Right In: 3461.927 $\pm$ 0.957 χ^2 /NDF: 1309580.1/15

Left Out: 2095.759 $\pm$ 0.409 χ^2 /NDF:446734.6/16

Right Out: 3791.207 $\pm$ 1.021 χ^2 /NDF: 1155755.9/18

Left In: 2141.915 $\pm$ 0.433 χ^2 /NDF:268064.7/14

Left: 2117.498 $\pm$ 0.297 χ^2 /NDF: 720798.4/31

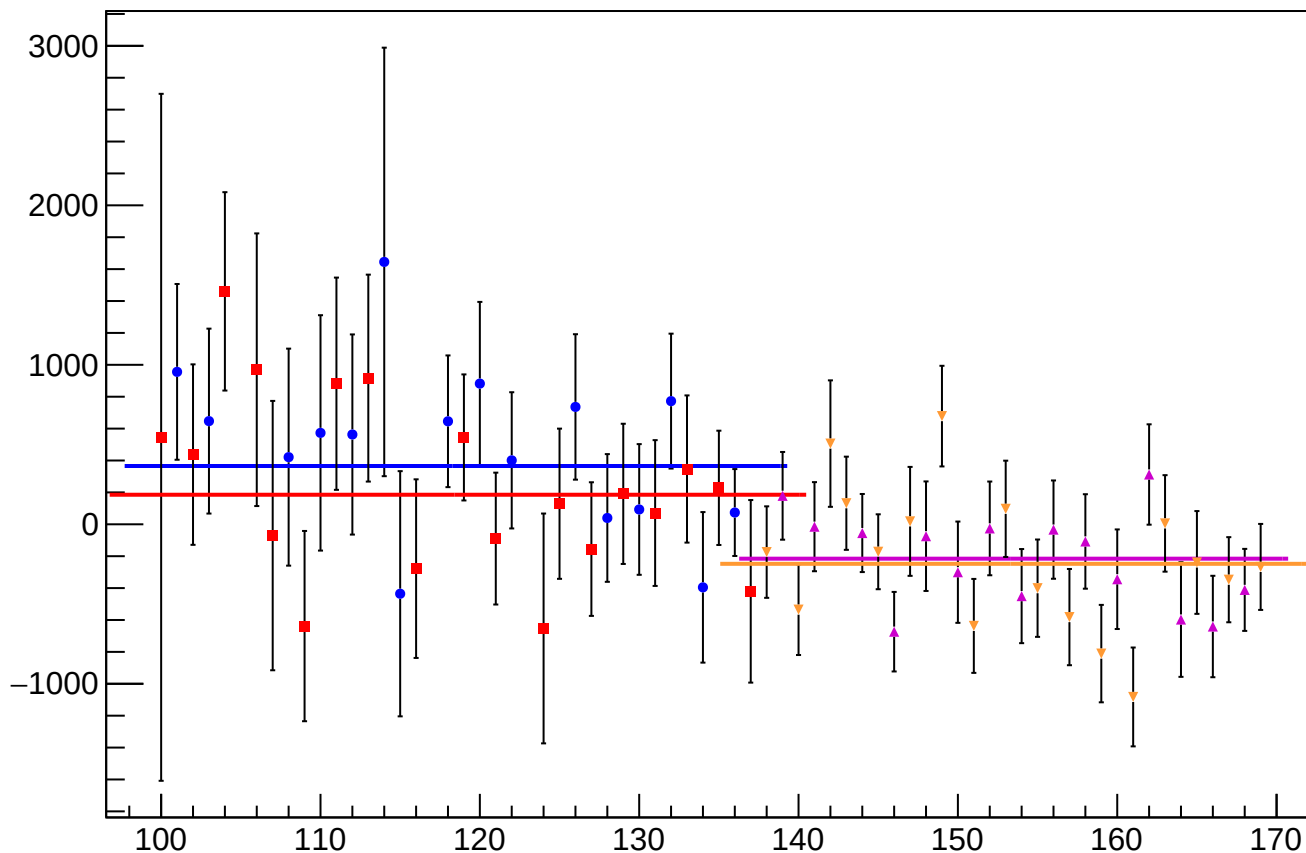
Right: 3616.041 $\pm$ 0.698 χ^2 /NDF: 2520711.5/34

In: 2366.479 $\pm$ 0.395 χ^2 /NDF:3155555.3/30

Out: 2330.339 $\pm$ 0.380 χ^2 /NDF:3980407.3/35

All: 2347.699 $\pm$ 0.274 χ^2 /NDF: 7140316.0/66

cor_asym_sam2_mean vs Slug, Sign Corrected



Right In: 365.523 ± 118.873 $\chi^2/\text{NDF}: 11.5/15$

Left Out: -247.835 ± 71.979 $\chi^2/\text{NDF}: 31.7/16$

Right Out: 185.331 ± 120.199 $\chi^2/\text{NDF}: 14.9/18$

Left In: -215.569 ± 75.528 $\chi^2/\text{NDF}: 14.6/14$

Left: -232.478 ± 52.106 $\chi^2/\text{NDF}: 46.5/31$

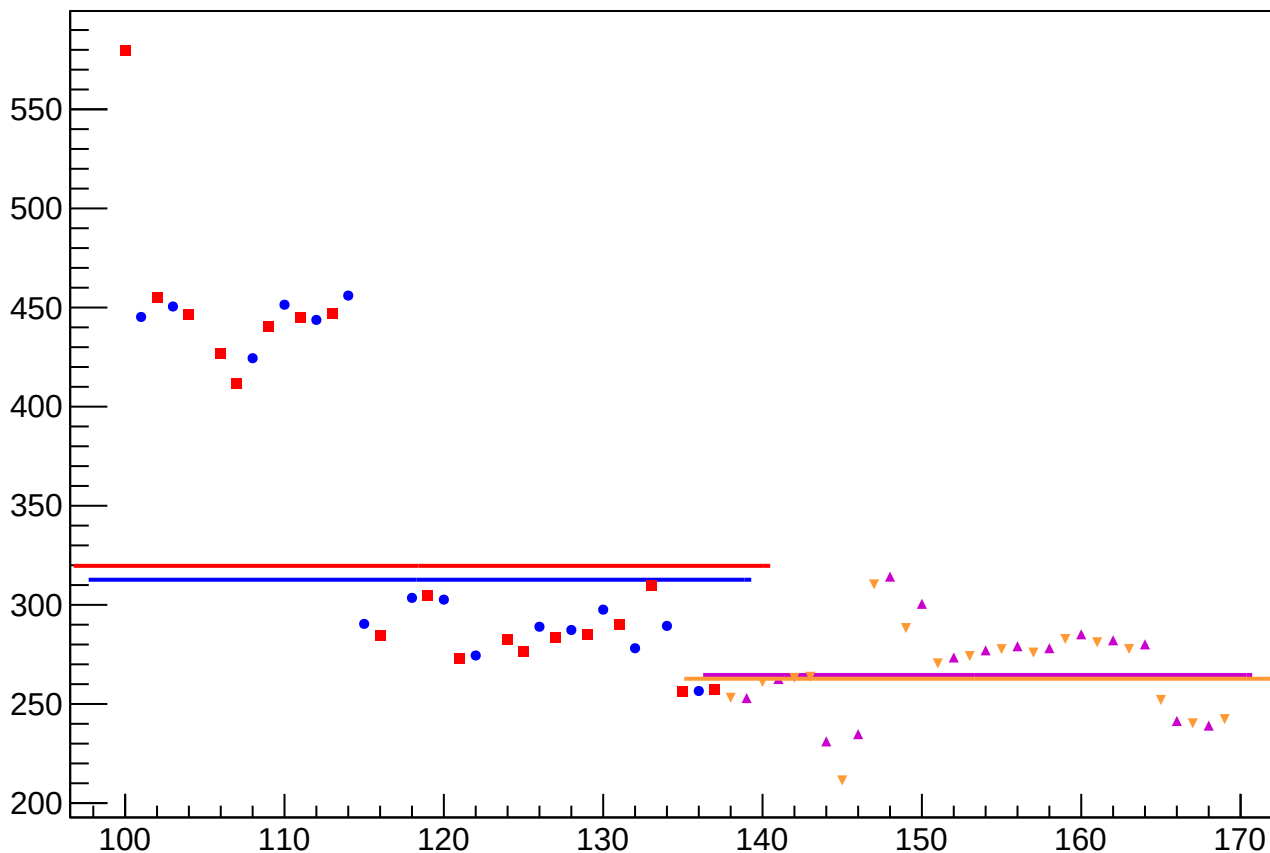
Right: 276.426 ± 84.521 $\chi^2/\text{NDF}: 27.6/34$

In: -48.451 ± 63.749 $\chi^2/\text{NDF}: 43.1/30$

Out: -133.503 ± 61.753 $\chi^2/\text{NDF}: 56.2/35$

All: -92.329 ± 44.355 $\chi^2/\text{NDF}: 100.3/66$

cor_asym_sam2_rms vs Slug, Sign Corrected



Right In: 312.683+/-0.084 χ^2/NDF : 602209.1/15

Left Out: 262.739+/-0.051 χ^2/NDF :210992.1/16

Right Out: 319.693+/-0.085 χ^2/NDF : 693714.1/18

Left In: 264.640+/-0.053 χ^2/NDF :199966.4/14

Left: 263.644+/-0.037 χ^2/NDF : 411622.6/31

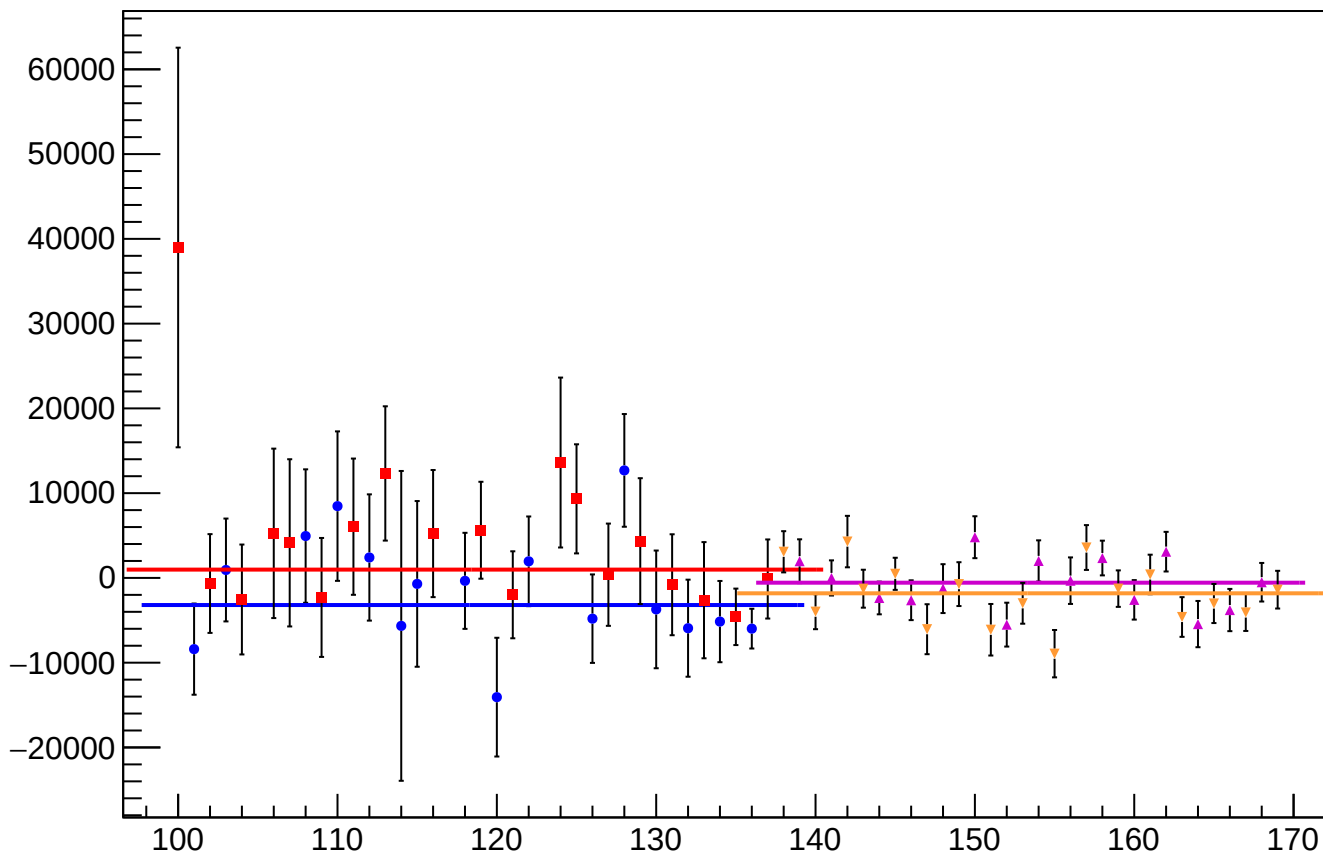
Right: 316.149+/-0.060 χ^2/NDF : 1299362.0/34

In: 278.457+/-0.045 χ^2/NDF :1034900.7/30

Out: 277.772+/-0.044 χ^2/NDF :1235212.5/35

All: 278.103+/-0.031 χ^2/NDF : 2270232.4/66

asym_sam2_cor_correction_mean vs Slug, Sign Corrected



Right In: -3198.673 $\pm$ 1353.816 χ^2 /NDF: 16.1/15

Left Out: -1815.199 $\pm$ 578.369 χ^2 /NDF:29.7/16

Right Out: 980.937 $\pm$ 1445.265 χ^2 /NDF: 14.0/18

Left In: -563.612 $\pm$ 612.962 χ^2 /NDF:22.3/14

Left: -1225.717 $\pm$ 420.667 χ^2 /NDF: 54.2/31

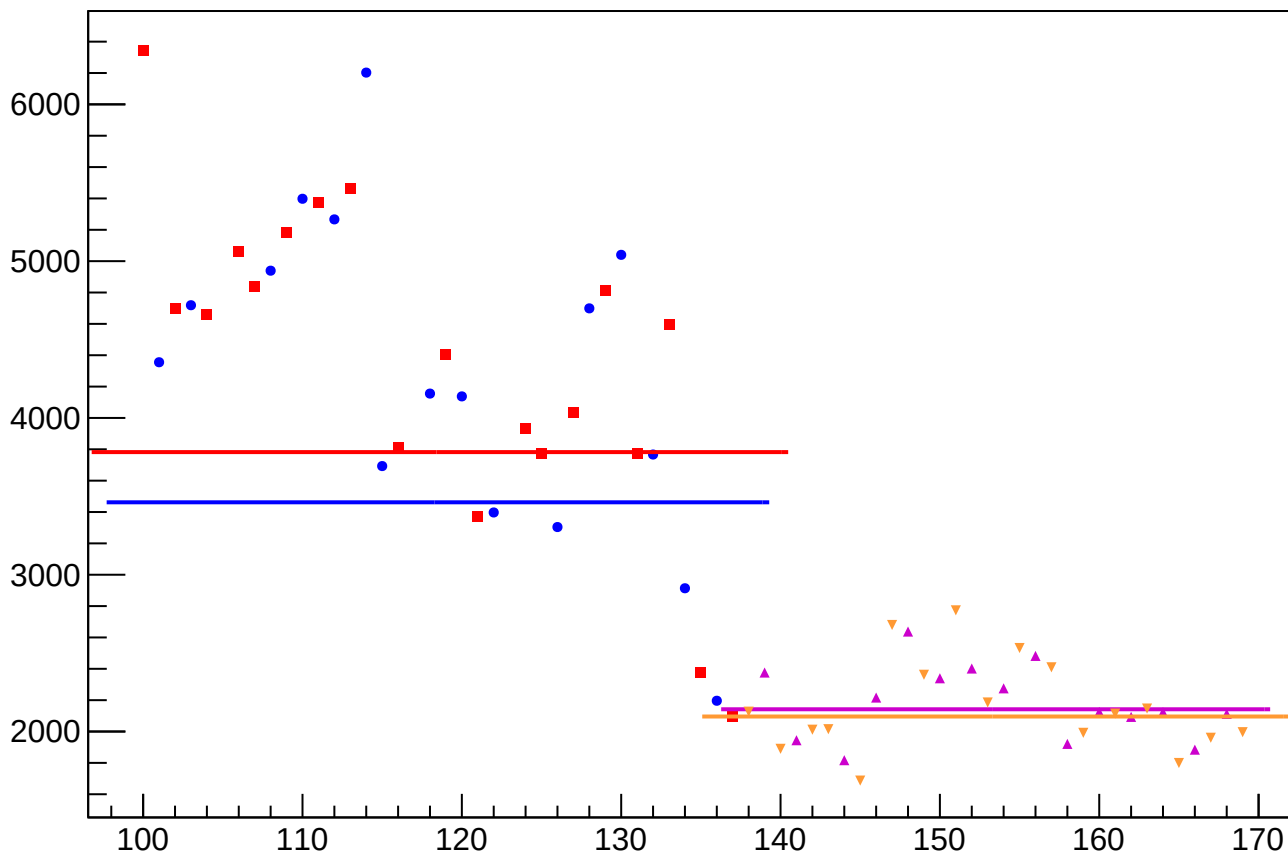
Right: -1245.274 $\pm$ 988.041 χ^2 /NDF: 34.5/34

In: -1011.895 $\pm$ 558.394 χ^2 /NDF:41.6/30

Out: -1429.222 $\pm$ 536.969 χ^2 /NDF:46.9/35

All: -1228.718 $\pm$ 387.047 χ^2 /NDF: 88.7/66

asym_sam2_cor_correction_rms vs Slug, Sign Corrected



Right In: 3461.932 $\pm$ 0.957 χ^2/NDF : 1309596.2/15

Left Out: 2095.759 $\pm$ 0.409 χ^2/NDF : 446735.3/16

Right Out: 3782.176 $\pm$ 1.022 χ^2/NDF : 1136342.8/18

Left In: 2141.916 $\pm$ 0.433 χ^2/NDF : 268065.1/14

Left: 2117.498 $\pm$ 0.297 χ^2/NDF : 720799.7/31

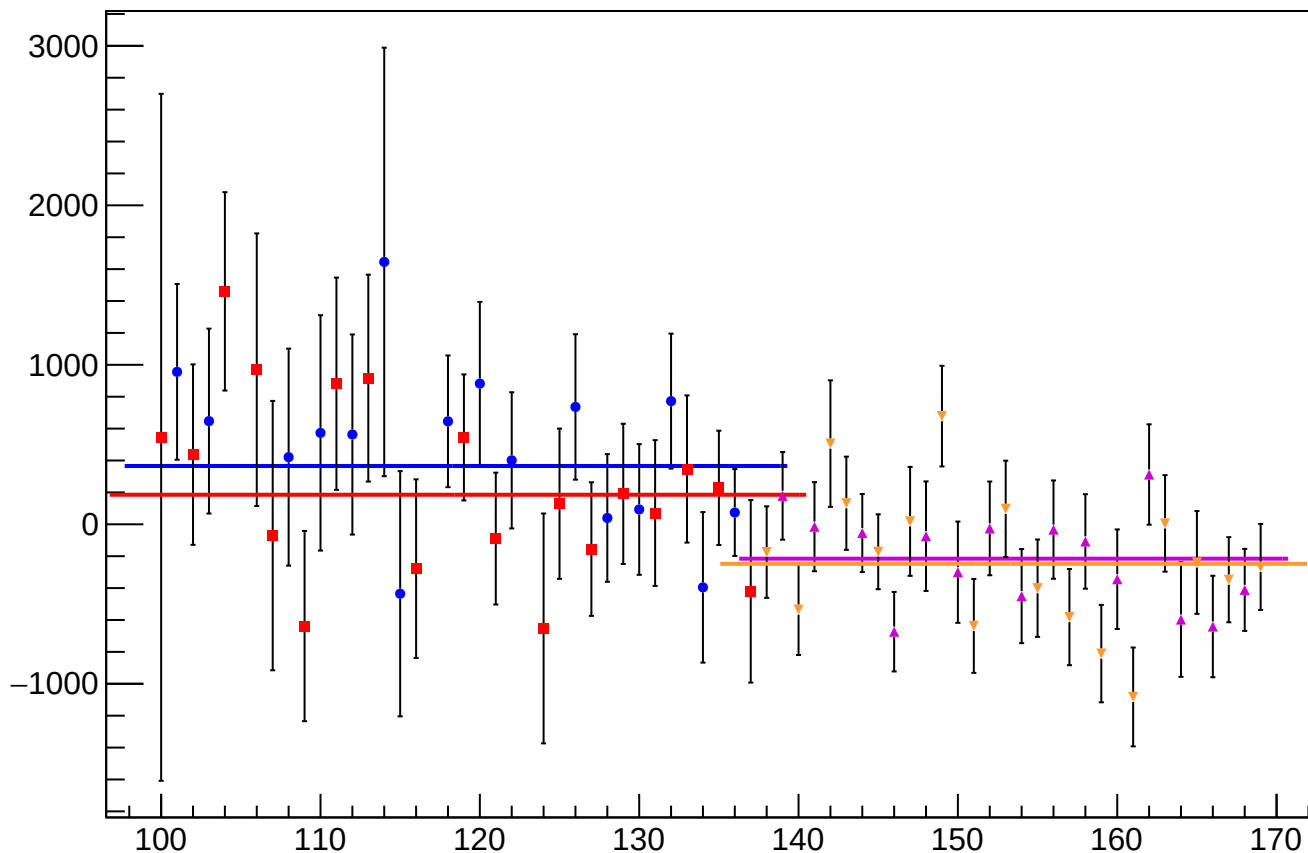
Right: 3611.602 $\pm$ 0.699 χ^2/NDF : 2498242.4/34

In: 2366.480 $\pm$ 0.395 χ^2/NDF : 3155573.9/30

Out: 2328.551 $\pm$ 0.380 χ^2/NDF : 3930292.6/35

All: 2346.774 $\pm$ 0.274 χ^2/NDF : 7090660.8/66

eigen_cor_asym_sam2_mean vs Slug, Sign Corrected



Right In: 365.523+/-118.873 χ^2/NDF : 11.5/15

Left Out: -247.835+/-71.979 χ^2/NDF :31.7/16

Right Out: 185.331+/-120.199 χ^2/NDF : 14.9/18

Left In: -215.569+/-75.528 χ^2/NDF :14.6/14

Left: -232.478+/-52.106 χ^2/NDF : 46.5/31

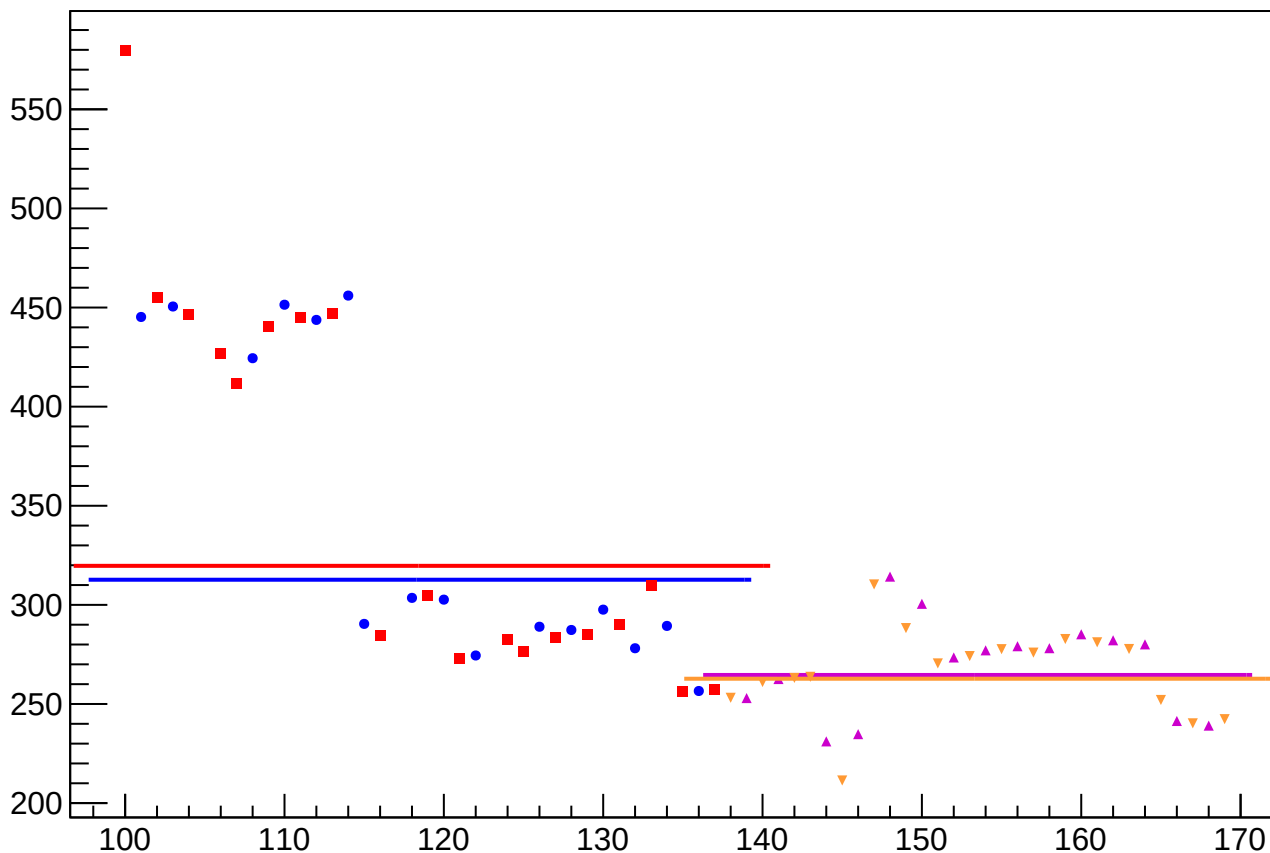
Right: 276.426+/-84.521 χ^2/NDF : 27.6/34

In: -48.451+/-63.749 χ^2/NDF :43.1/30

Out: -133.503+/-61.753 χ^2/NDF :56.2/35

All: -92.329+/-44.355 χ^2/NDF : 100.3/66

eigen_cor_asym_sam2_rms vs Slug, Sign Corrected



Right In: 312.683+/-0.084 χ^2/NDF : 602209.1/15

Left Out: 262.739+/-0.051 χ^2/NDF :210992.1/16

Right Out: 319.693+/-0.085 χ^2/NDF : 693714.1/18

Left In: 264.640+/-0.053 χ^2/NDF :199966.4/14

Left: 263.644+/-0.037 χ^2/NDF : 411622.6/31

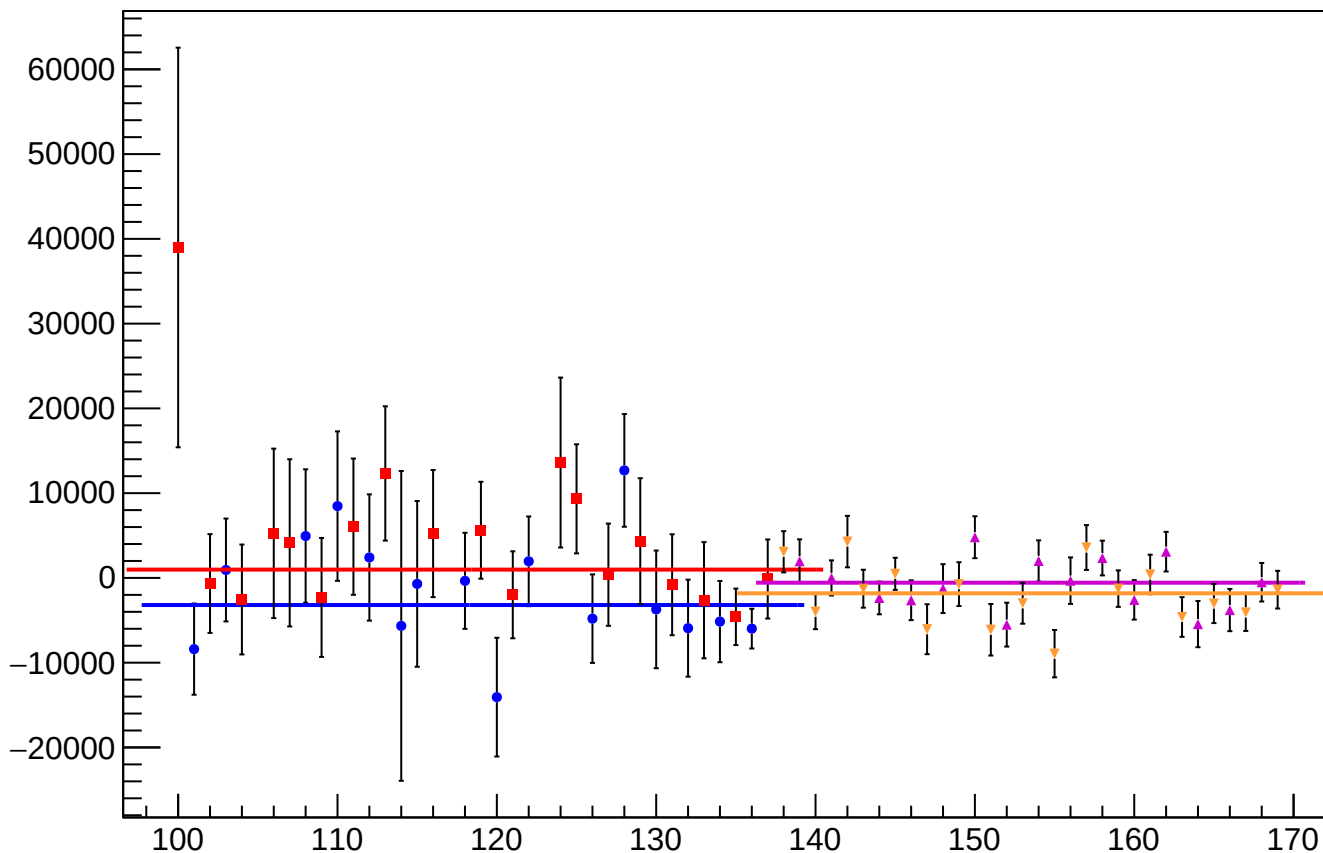
Right: 316.149+/-0.060 χ^2/NDF : 1299362.0/34

In: 278.457+/-0.045 χ^2/NDF :1034900.7/30

Out: 277.772+/-0.044 χ^2/NDF :1235212.5/35

All: 278.103+/-0.031 χ^2/NDF : 2270232.4/66

asym_sam2_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -3198.673 $\pm$ 1353.816 χ^2 /NDF: 16.1/15

Left Out: -1815.199 $\pm$ 578.369 χ^2 /NDF:29.7/16

Right Out: 980.937 $\pm$ 1445.265 χ^2 /NDF: 14.0/18

Left In: -563.612 $\pm$ 612.962 χ^2 /NDF:22.3/14

Left: -1225.717 $\pm$ 420.667 χ^2 /NDF: 54.2/31

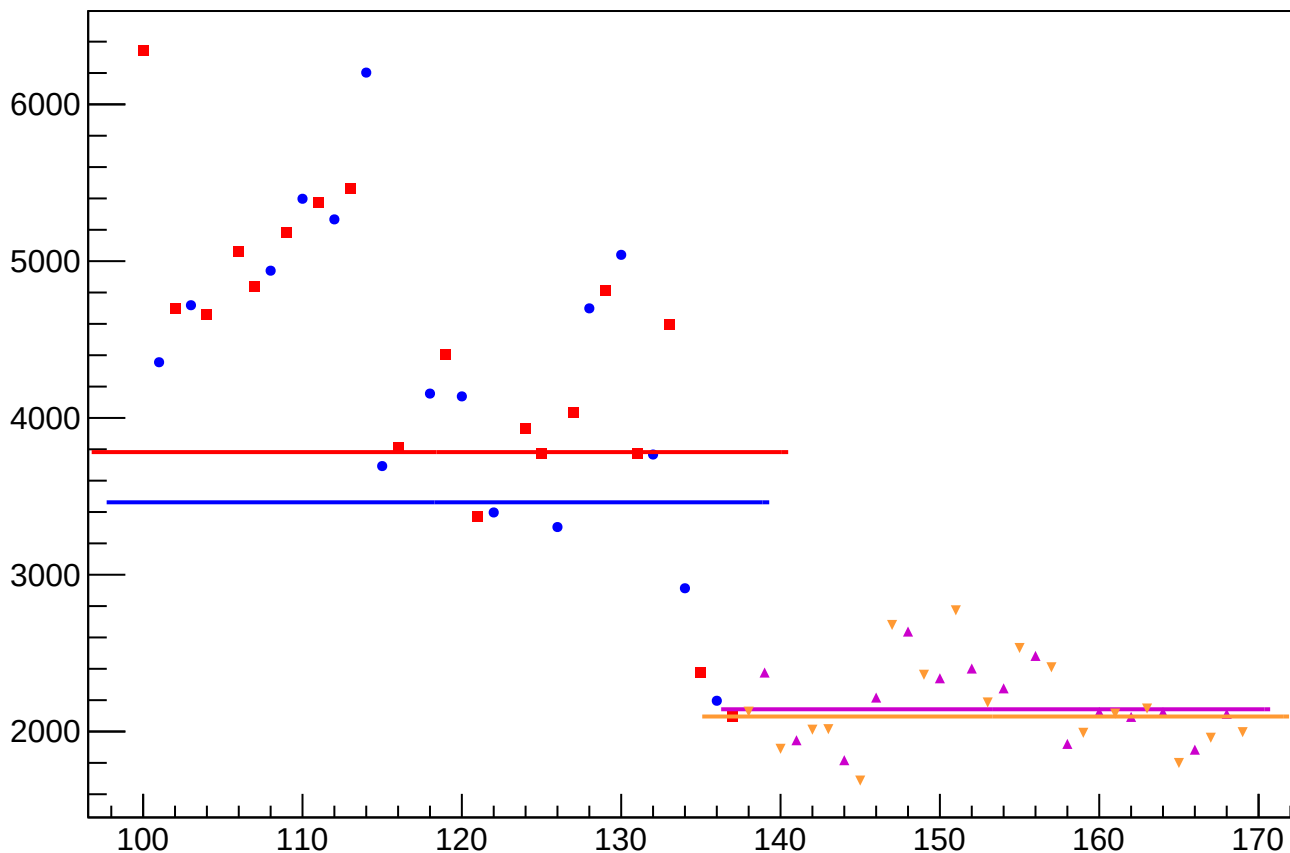
Right: -1245.274 $\pm$ 988.041 χ^2 /NDF: 34.5/34

In: -1011.895 $\pm$ 558.394 χ^2 /NDF:41.6/30

Out: -1429.222 $\pm$ 536.969 χ^2 /NDF:46.9/35

All: -1228.718 $\pm$ 387.047 χ^2 /NDF: 88.7/66

asym_sam2_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 3461.932 $\pm$ 0.957 χ^2 /NDF: 1309596.2/15

Left Out: 2095.759 $\pm$ 0.409 χ^2 /NDF: 446735.3/16

Right Out: 3782.176 $\pm$ 1.022 χ^2 /NDF: 1136342.8/18

Left In: 2141.916 $\pm$ 0.433 χ^2 /NDF: 268065.1/14

Left: 2117.498 $\pm$ 0.297 χ^2 /NDF: 720799.7/31

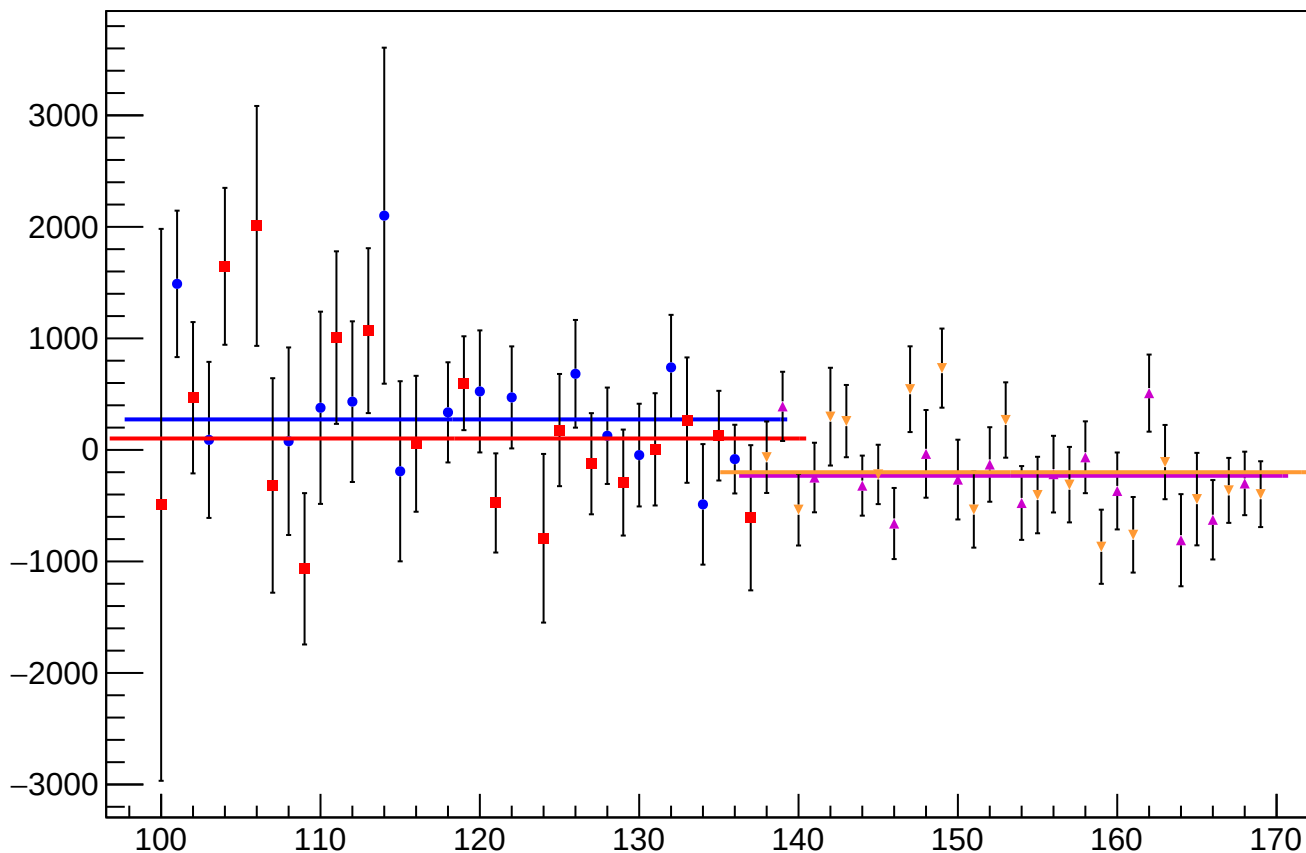
Right: 3611.602 $\pm$ 0.699 χ^2 /NDF: 2498242.4/34

In: 2366.480 $\pm$ 0.395 χ^2 /NDF: 3155573.9/30

Out: 2328.551 $\pm$ 0.380 χ^2 /NDF: 3930292.6/35

All: 2346.774 $\pm$ 0.274 χ^2 /NDF: 7090660.8/66

dit_asym_sam2_mean vs Slug, Sign Corrected



Right In: 273.578 ± 132.537 $\chi^2/\text{NDF}: 11.4/15$

Left Out: -199.986 ± 80.738 $\chi^2/\text{NDF}: 26.5/16$

Right Out: 102.369 ± 133.606 $\chi^2/\text{NDF}: 21.3/18$

Left In: -231.937 ± 85.239 $\chi^2/\text{NDF}: 15.1/14$

Left: -215.095 ± 58.617 $\chi^2/\text{NDF}: 41.7/31$

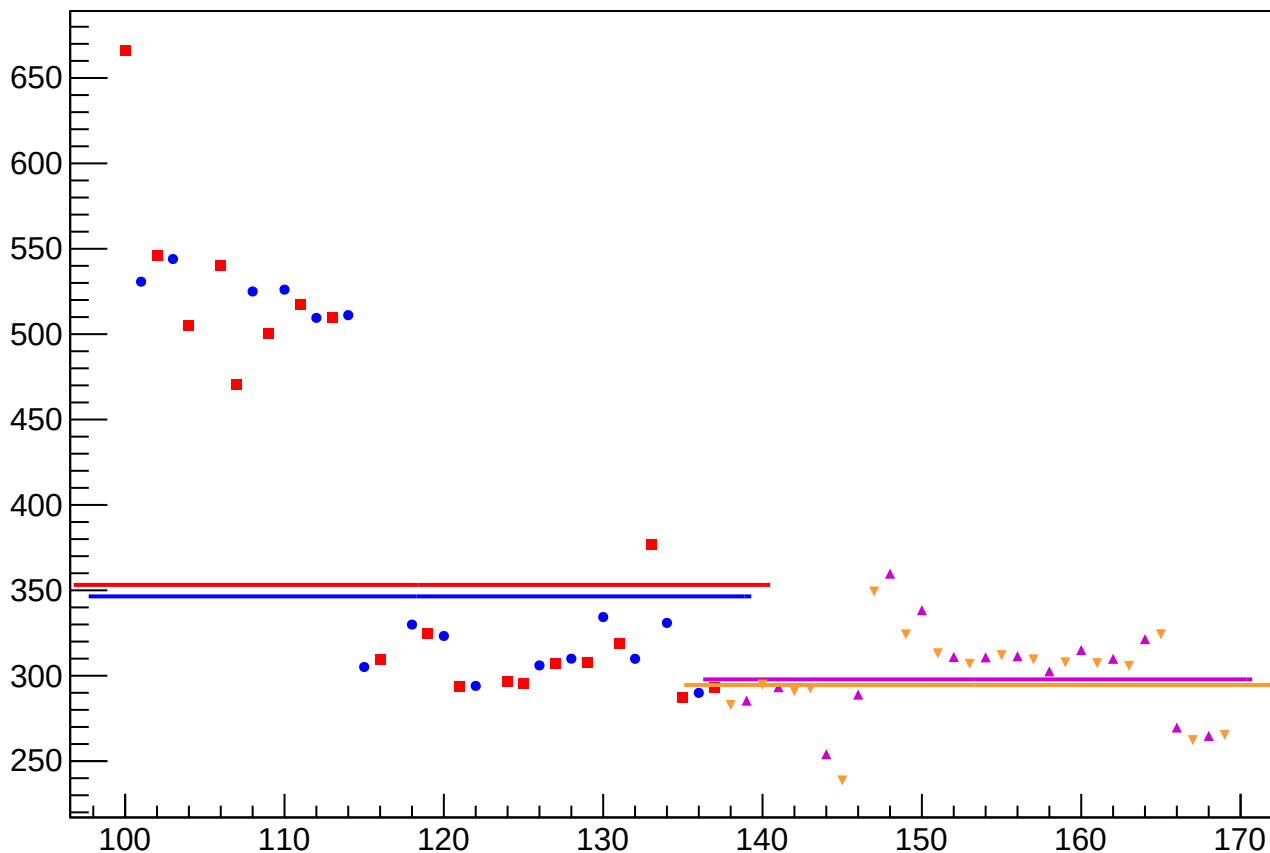
Right: 188.661 ± 94.094 $\chi^2/\text{NDF}: 33.6/34$

In: -84.025 ± 71.692 $\chi^2/\text{NDF}: 36.8/30$

Out: -119.108 ± 69.101 $\chi^2/\text{NDF}: 51.6/35$

All: -102.212 ± 49.753 $\chi^2/\text{NDF}: 88.6/66$

dit_asym_sam2_rms vs Slug, Sign Corrected



Right In: 346.455+/-0.094 χ^2/NDF : 768763.1/15

Left Out: 294.570+/-0.057 χ^2/NDF :225966.0/16

Right Out: 353.178+/-0.094 χ^2/NDF : 866364.3/18

Left In: 297.846+/-0.060 χ^2/NDF :196633.7/14

Left: 296.119+/-0.041 χ^2/NDF : 424156.9/31

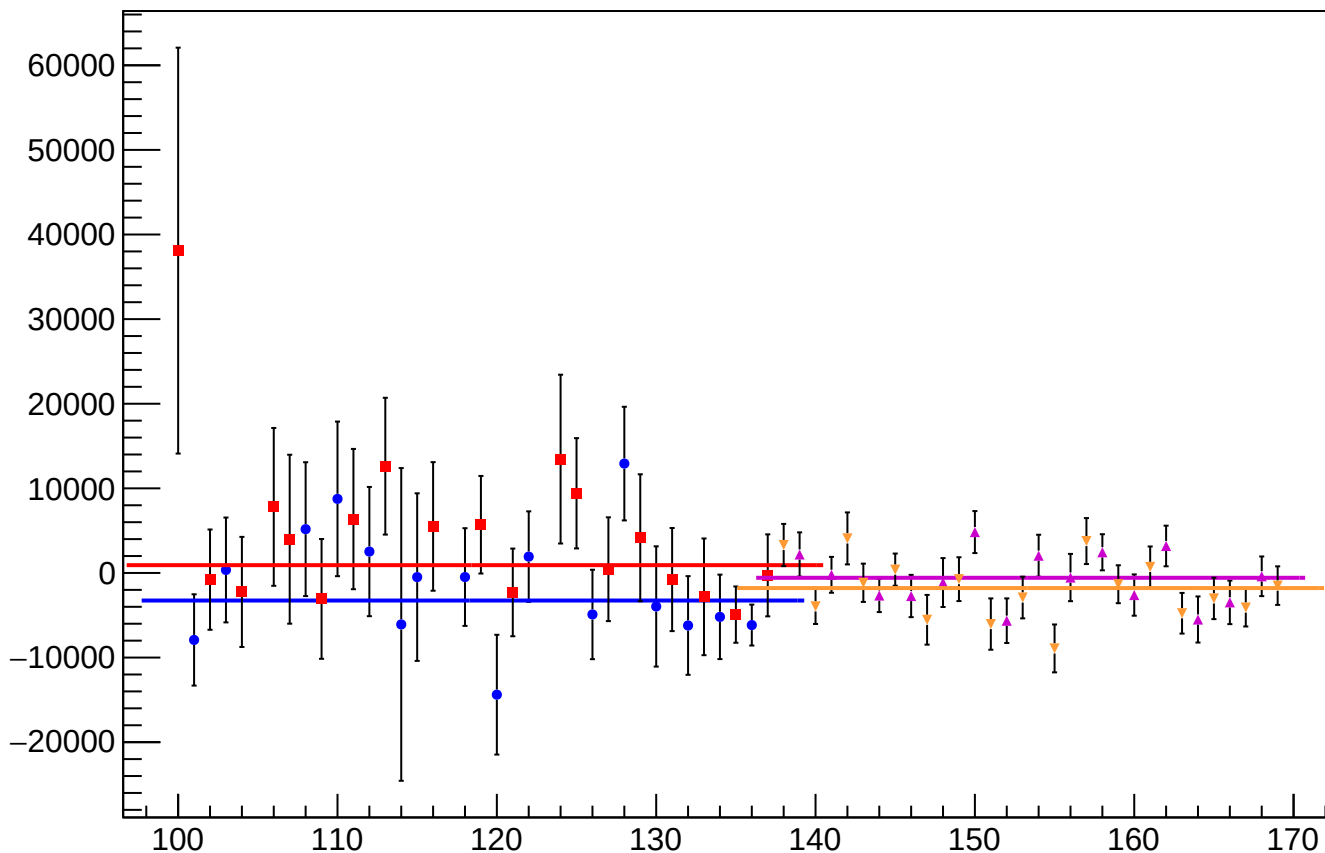
Right: 349.789+/-0.067 χ^2/NDF : 1637679.7/34

In: 312.069+/-0.051 χ^2/NDF :1155701.0/30

Out: 310.247+/-0.049 χ^2/NDF :1374230.5/35

All: 311.125+/-0.035 χ^2/NDF : 2530600.9/66

asym_sam2_dit_correction_mean vs Slug, Sign Corrected



Right In: -3258.837 ± 1384.139 $\chi^2/\text{NDF}: 16.0/15$

Left Out: -1786.013 ± 590.063 $\chi^2/\text{NDF}: 28.8/16$

Right Out: 921.196 ± 1460.727 $\chi^2/\text{NDF}: 14.6/18$

Left In: -571.798 ± 627.902 $\chi^2/\text{NDF}: 22.3/14$

Left: -1216.592 ± 429.993 $\chi^2/\text{NDF}: 53.1/31$

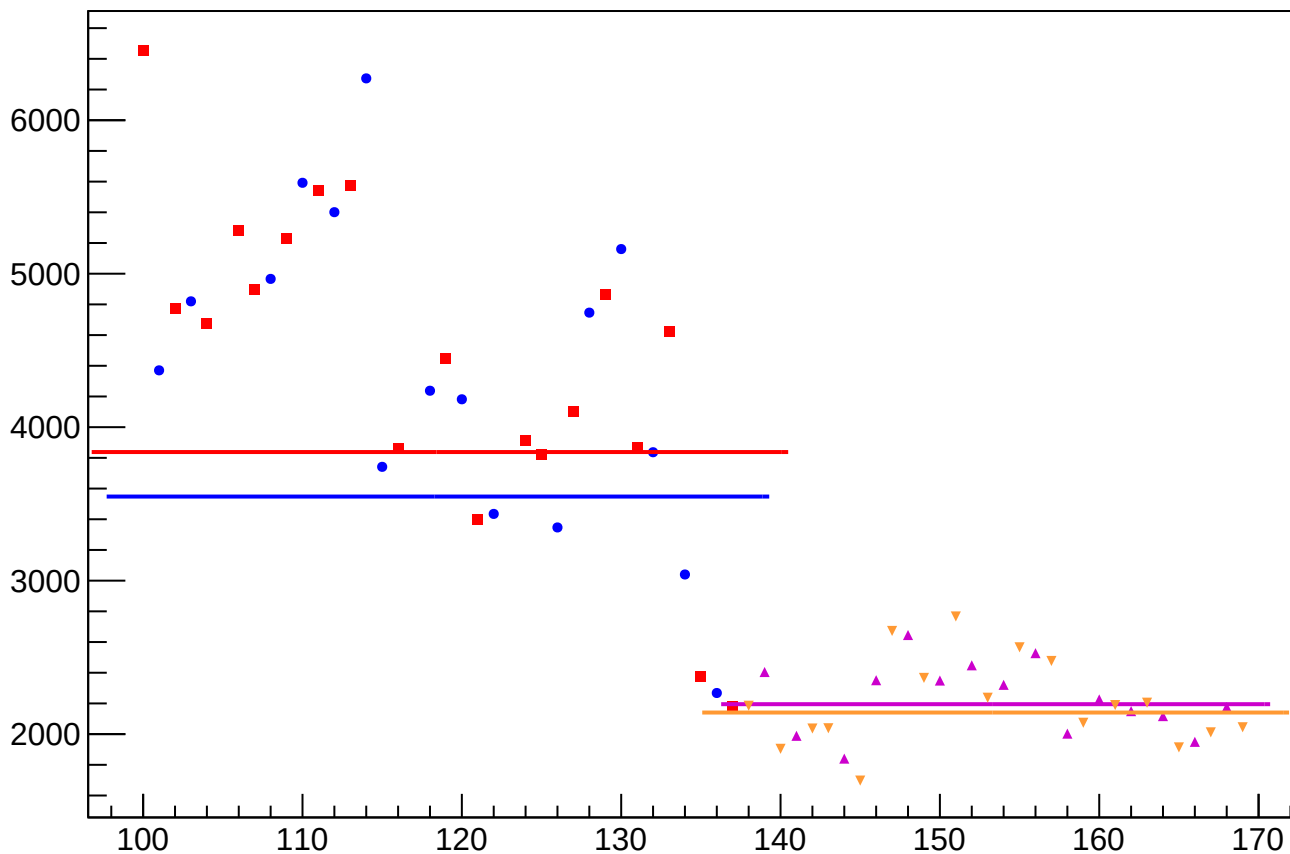
Right: -1281.271 ± 1004.719 $\chi^2/\text{NDF}: 35.0/34$

In: -1030.390 ± 571.816 $\chi^2/\text{NDF}: 41.5/30$

Out: -1406.231 ± 547.111 $\chi^2/\text{NDF}: 46.3/35$

All: -1226.605 ± 395.311 $\chi^2/\text{NDF}: 88.1/66$

asym_sam2_dit_correction_rms vs Slug, Sign Corrected



Right In: 3547.969 $\pm$ 0.979 χ^2/NDF : 1258486.8/15

Left Out: 2140.705 $\pm$ 0.417 χ^2/NDF : 417890.5/16

Right Out: 3837.970 $\pm$ 1.033 χ^2/NDF : 1155831.8/18

Left In: 2195.106 $\pm$ 0.444 χ^2/NDF : 250737.2/14

Left: 2166.217 $\pm$ 0.304 χ^2/NDF : 676600.2/31

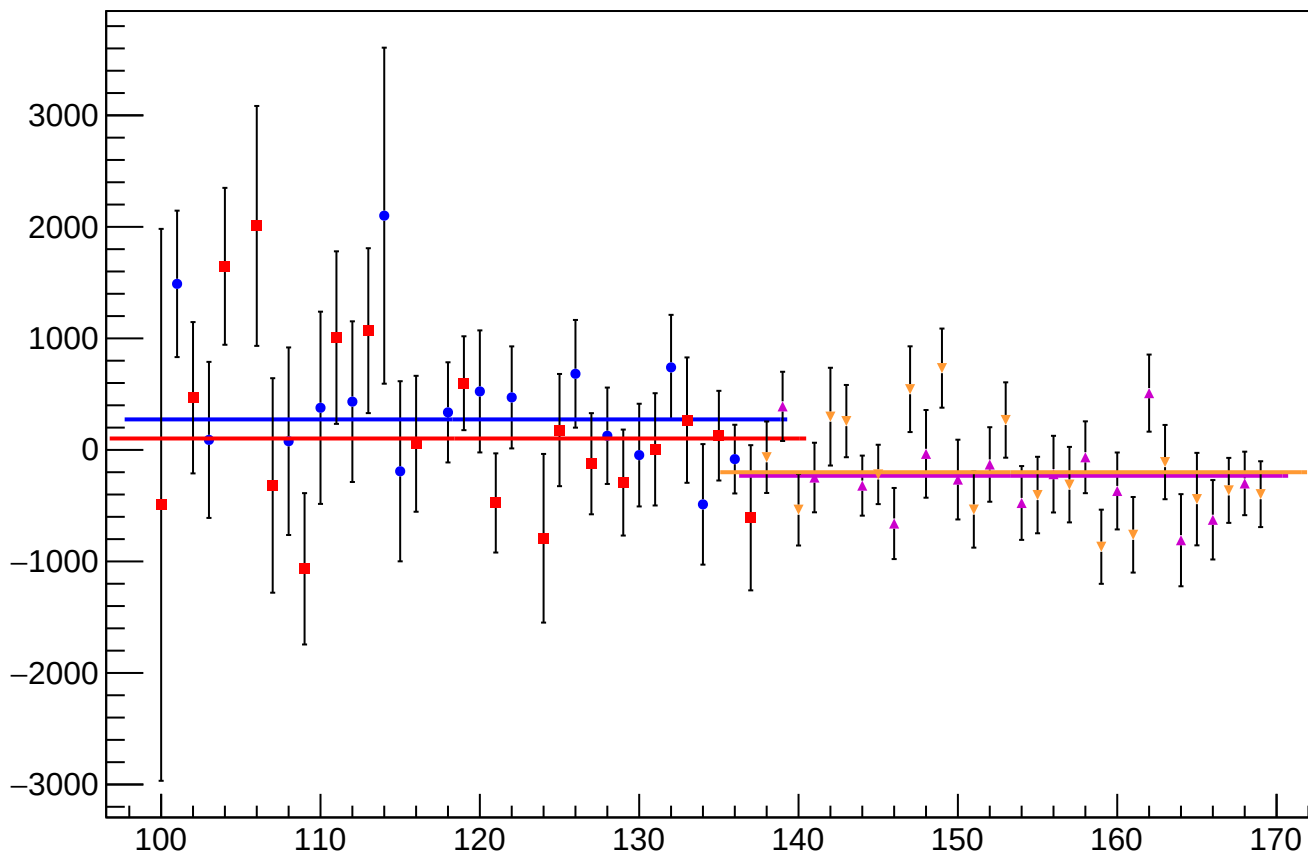
Right: 3685.168 $\pm$ 0.710 χ^2/NDF : 2455854.0/34

In: 2425.997 $\pm$ 0.404 χ^2/NDF : 3093775.1/30

Out: 2378.806 $\pm$ 0.387 χ^2/NDF : 3895097.5/35

All: 2401.360 $\pm$ 0.280 χ^2/NDF : 6995984.1/66

eigen_dit_asym_sam2_mean vs Slug, Sign Corrected



Right In: 273.582 ± 132.536 $\chi^2/\text{NDF}: 11.4/15$

Left Out: -199.988 ± 80.738 $\chi^2/\text{NDF}: 26.5/16$

Right Out: 102.368 ± 133.606 $\chi^2/\text{NDF}: 21.3/18$

Left In: -231.942 ± 85.239 $\chi^2/\text{NDF}: 15.1/14$

Left: -215.099 ± 58.617 $\chi^2/\text{NDF}: 41.7/31$

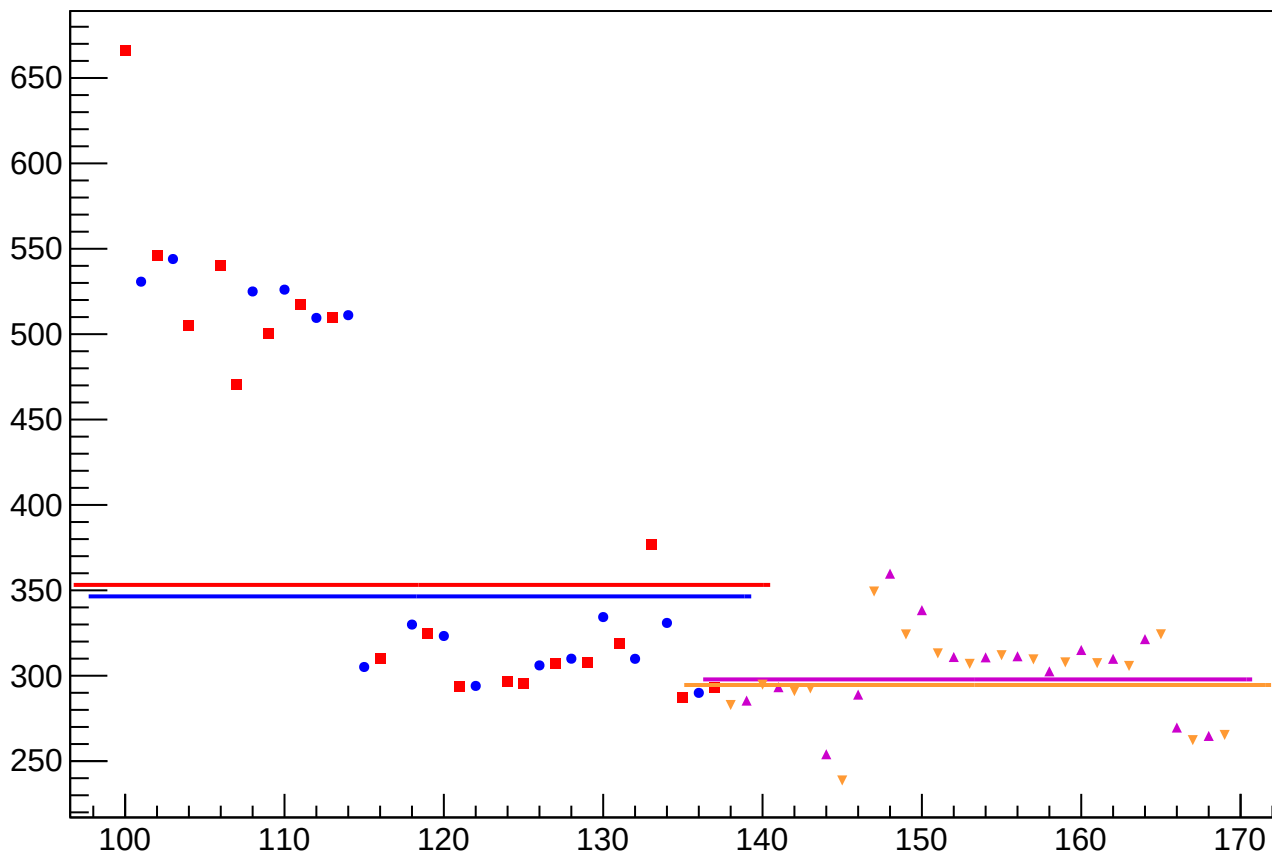
Right: 188.663 ± 94.093 $\chi^2/\text{NDF}: 33.6/34$

In: -84.026 ± 71.692 $\chi^2/\text{NDF}: 36.8/30$

Out: -119.109 ± 69.101 $\chi^2/\text{NDF}: 51.6/35$

All: -102.213 ± 49.753 $\chi^2/\text{NDF}: 88.6/66$

eigen_dit_asym_sam2_rms vs Slug, Sign Corrected



Right In: 346.453+/-0.094 χ^2/NDF : 768754.7/15

Left Out: 294.570+/-0.057 χ^2/NDF : 225971.6/16

Right Out: 353.176+/-0.094 χ^2/NDF : 866353.6/18

Left In: 297.846+/-0.060 χ^2/NDF : 196636.8/14

Left: 296.119+/-0.041 χ^2/NDF : 424165.5/31

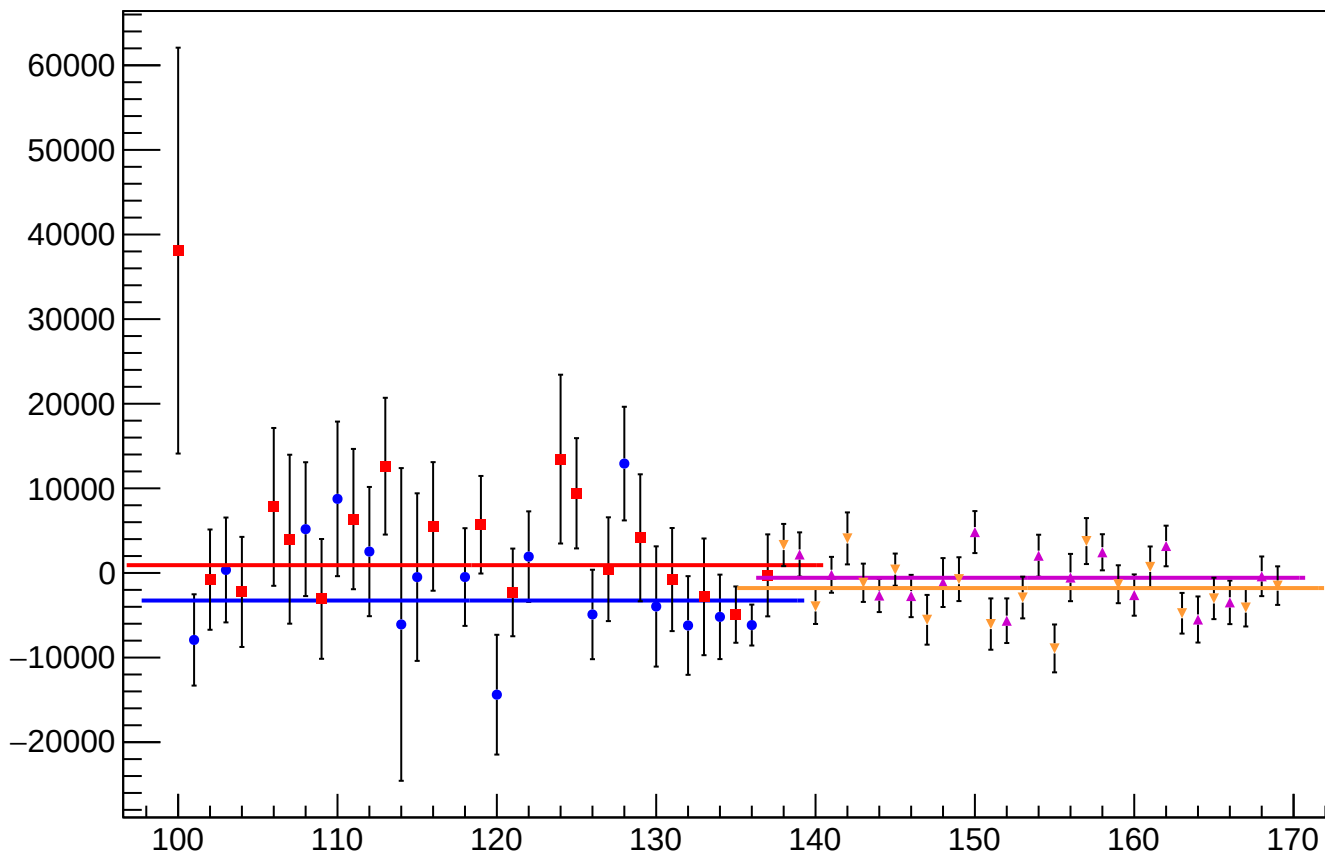
Right: 349.788+/-0.067 χ^2/NDF : 1637661.2/34

In: 312.068+/-0.051 χ^2/NDF : 1155681.7/30

Out: 310.247+/-0.049 χ^2/NDF : 1374214.8/35

All: 311.124+/-0.035 χ^2/NDF : 2530565.7/66

asym_sam2_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -3258.828 ± 1384.137 $\chi^2/\text{NDF}: 16.0/15$

Left Out: -1786.012 ± 590.063 $\chi^2/\text{NDF}: 28.8/16$

Right Out: 921.200 ± 1460.725 $\chi^2/\text{NDF}: 14.6/18$

Left In: -571.798 ± 627.902 $\chi^2/\text{NDF}: 22.3/14$

Left: -1216.592 ± 429.993 $\chi^2/\text{NDF}: 53.1/31$

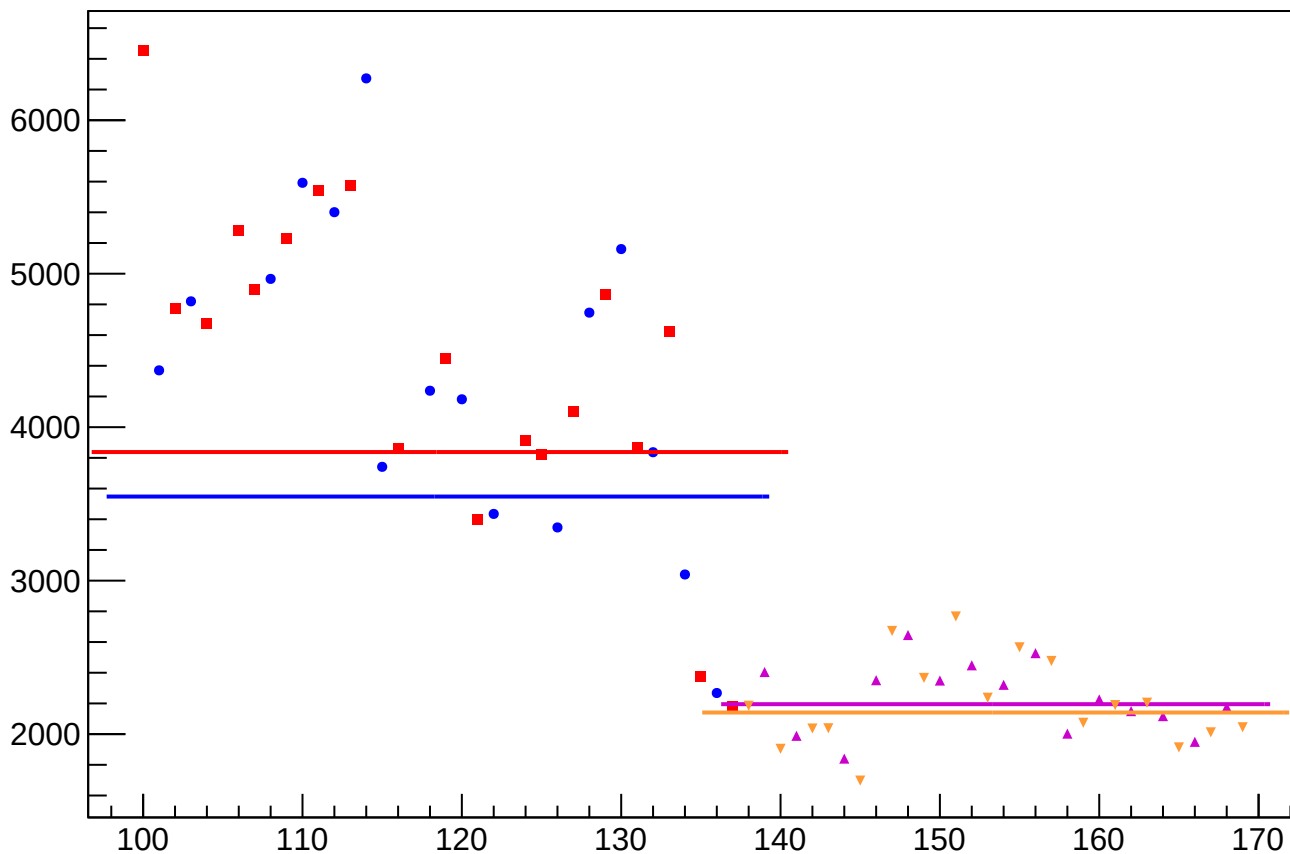
Right: -1281.264 ± 1004.718 $\chi^2/\text{NDF}: 35.0/34$

In: -1030.390 ± 571.816 $\chi^2/\text{NDF}: 41.5/30$

Out: -1406.229 ± 547.111 $\chi^2/\text{NDF}: 46.3/35$

All: -1226.603 ± 395.311 $\chi^2/\text{NDF}: 88.1/66$

asym_sam2_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 3547.966 $\pm$ 0.979 χ^2 /NDF: 1258472.8/15

Left Out: 2140.704 $\pm$ 0.417 χ^2 /NDF: 417897.1/16

Right Out: 3837.965 $\pm$ 1.033 χ^2 /NDF: 1155821.5/18

Left In: 2195.106 $\pm$ 0.444 χ^2 /NDF: 250738.7/14

Left: 2166.216 $\pm$ 0.304 χ^2 /NDF: 676608.5/31

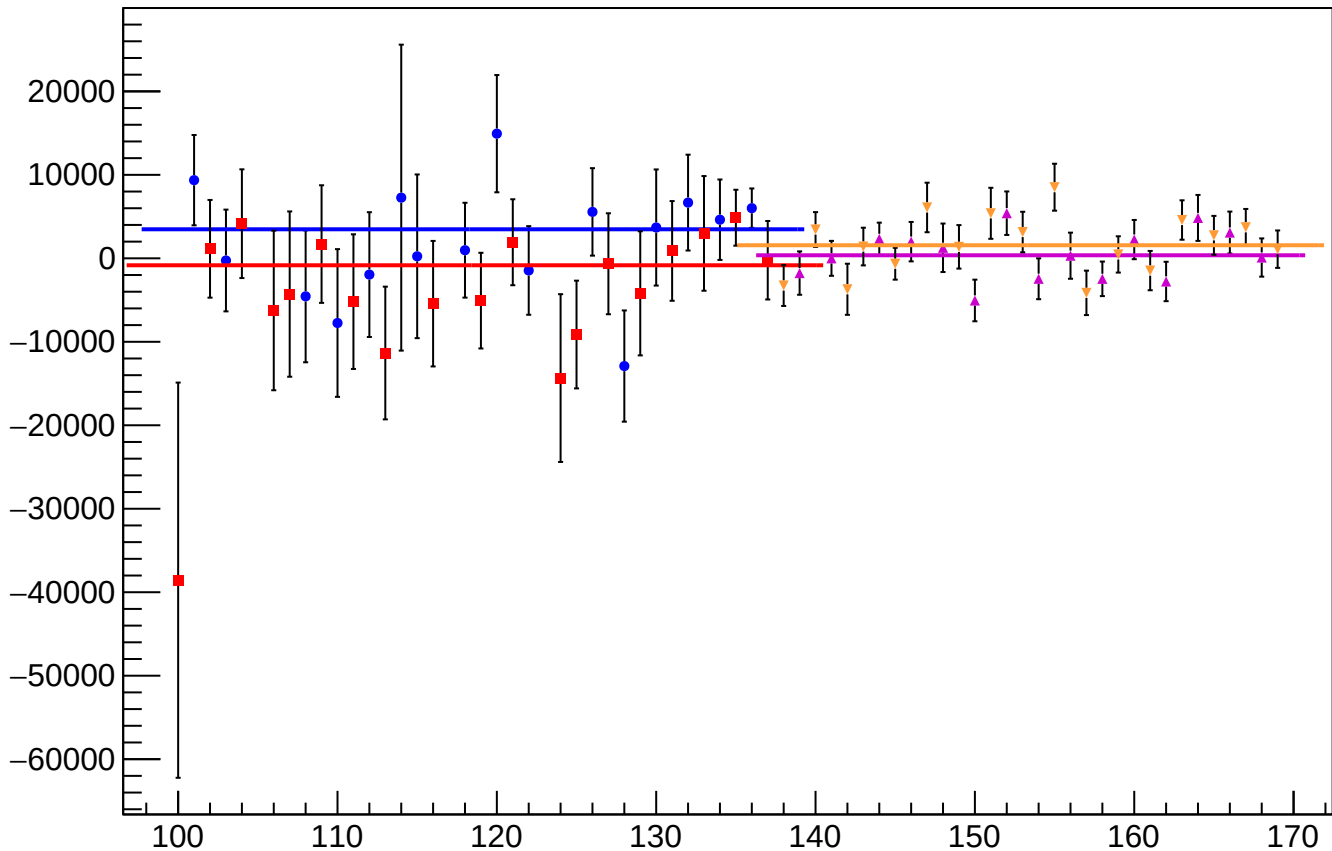
Right: 3685.164 $\pm$ 0.710 χ^2 /NDF: 2455829.5/34

In: 2425.997 $\pm$ 0.404 χ^2 /NDF: 3093759.2/30

Out: 2378.805 $\pm$ 0.387 χ^2 /NDF: 3895090.5/35

All: 2401.360 $\pm$ 0.280 χ^2 /NDF: 6995961.4/66

asym_sam2_mean vs Slug, Sign Corrected



Right In: 3478.372 $\pm$ 1360.356 χ^2 /NDF: 16.3/15

Left Out: 1566.506 $\pm$ 583.042 χ^2 /NDF:28.9/16

Right Out: -832.583 $\pm$ 1449.649 χ^2 /NDF: 14.0/18

Left In: 365.410 $\pm$ 617.832 χ^2 /NDF:20.2/14

Left: 1000.725 $\pm$ 424.039 χ^2 /NDF: 51.1/31

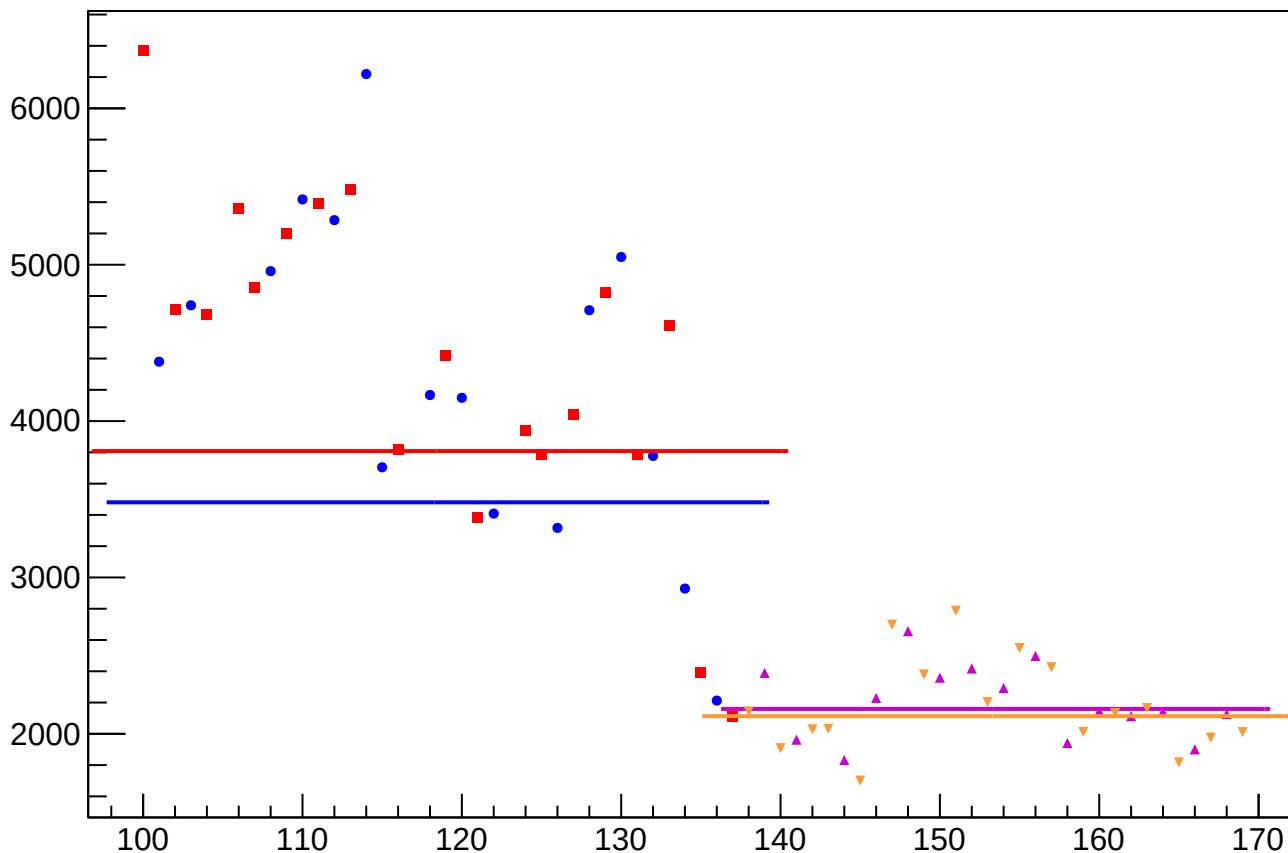
Right: 1459.744 $\pm$ 991.983 χ^2 /NDF: 35.1/34

In: 897.720 $\pm$ 562.533 χ^2 /NDF:40.8/30

Out: 1232.462 $\pm$ 540.930 χ^2 /NDF:45.3/35

All: 1071.642 $\pm$ 389.909 χ^2 /NDF: 86.3/66

asym_sam2_rms vs Slug, Sign Corrected



Right In: 3480.559 ± 0.962 $\chi^2/\text{NDF}: 1296641.6/15$

Left Out: 2113.085 ± 0.412 $\chi^2/\text{NDF}: 440924.2/16$

Right Out: 3808.151 ± 1.025 $\chi^2/\text{NDF}: 1147564.2/18$

Left In: 2159.232 ± 0.437 $\chi^2/\text{NDF}: 263759.4/14$

Left: 2134.822 ± 0.300 $\chi^2/\text{NDF}: 710585.5/31$

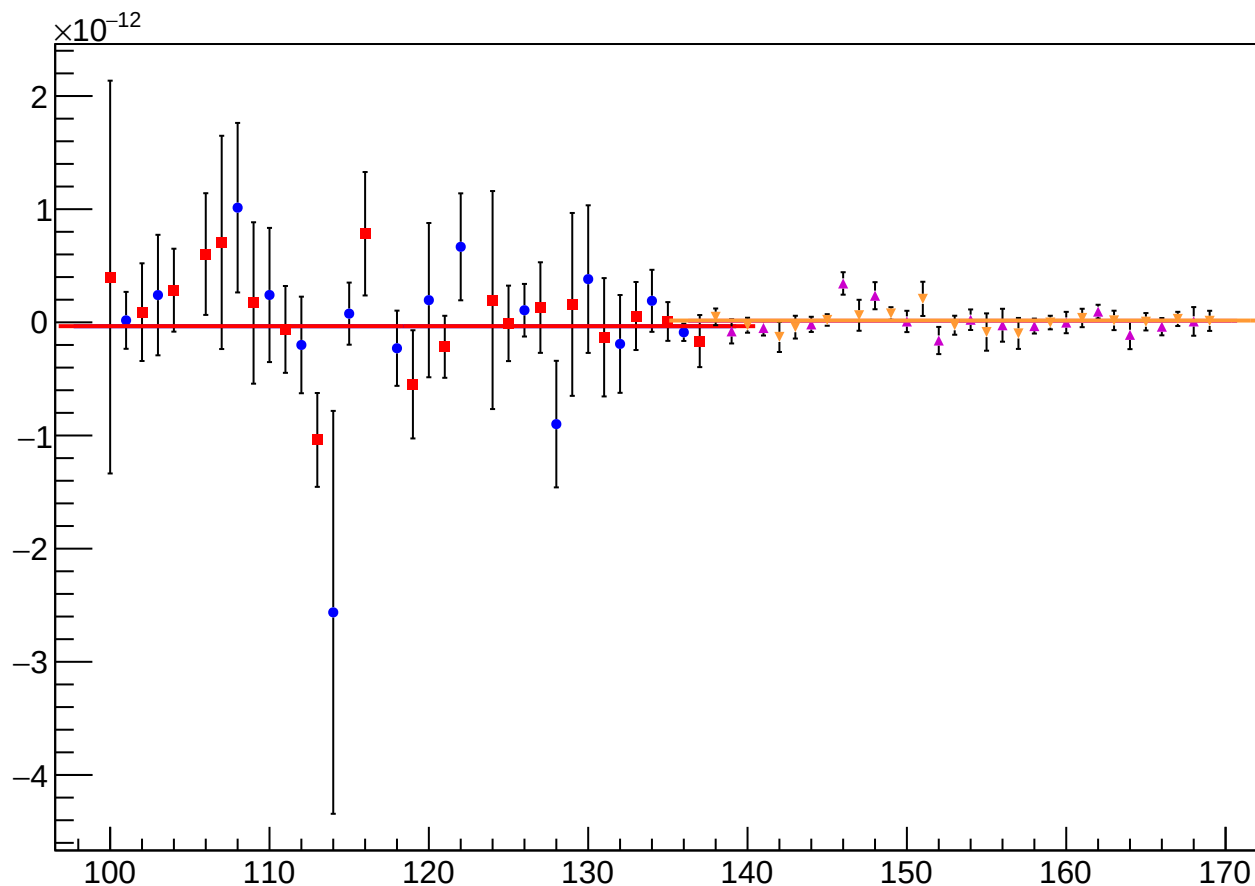
Right: 3633.956 ± 0.701 $\chi^2/\text{NDF}: 2498515.1/34$

In: 2385.176 ± 0.398 $\chi^2/\text{NDF}: 3124634.1/30$

Out: 2349.102 ± 0.382 $\chi^2/\text{NDF}: 3942242.9/35$

All: 2366.433 ± 0.276 $\chi^2/\text{NDF}: 7071150.3/66$

asym_sam2_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 11.9/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 6.6/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 13.5/18

Left In: 0.000 ± 0.000 χ^2/NDF : 22.3/14

Left: 0.000 ± 0.000 χ^2/NDF : 28.9/31

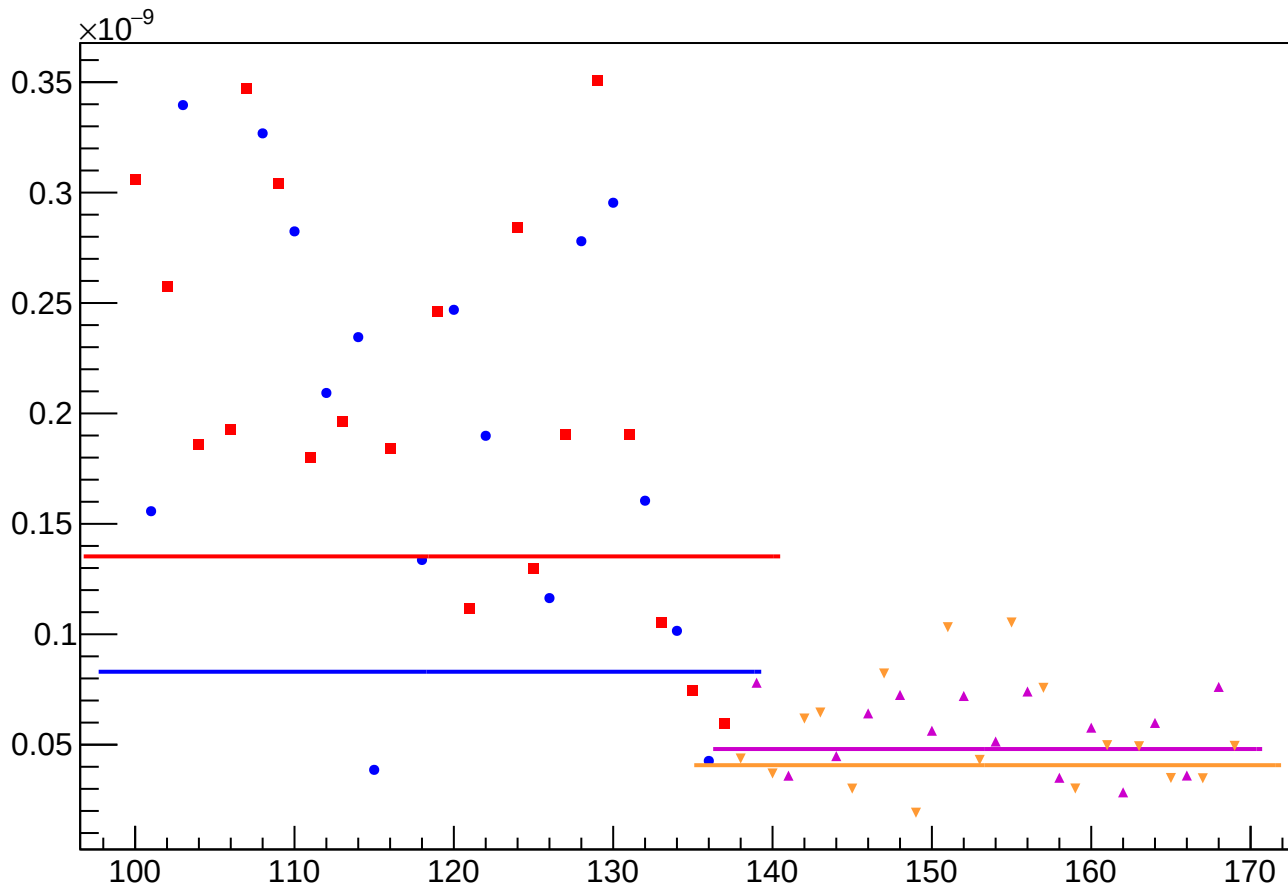
Right: -0.000 ± 0.000 χ^2/NDF : 25.5/34

In: 0.000 ± 0.000 χ^2/NDF : 34.8/30

Out: 0.000 ± 0.000 χ^2/NDF : 20.5/35

All: 0.000 ± 0.000 χ^2/NDF : 55.3/66

asym_sam2_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2702339.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1677262.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1401659.7/18

Left In: 0.000+/-0.000 χ^2/NDF :999929.6/14

Left: 0.000+/-0.000 χ^2/NDF : 2799361.1/31

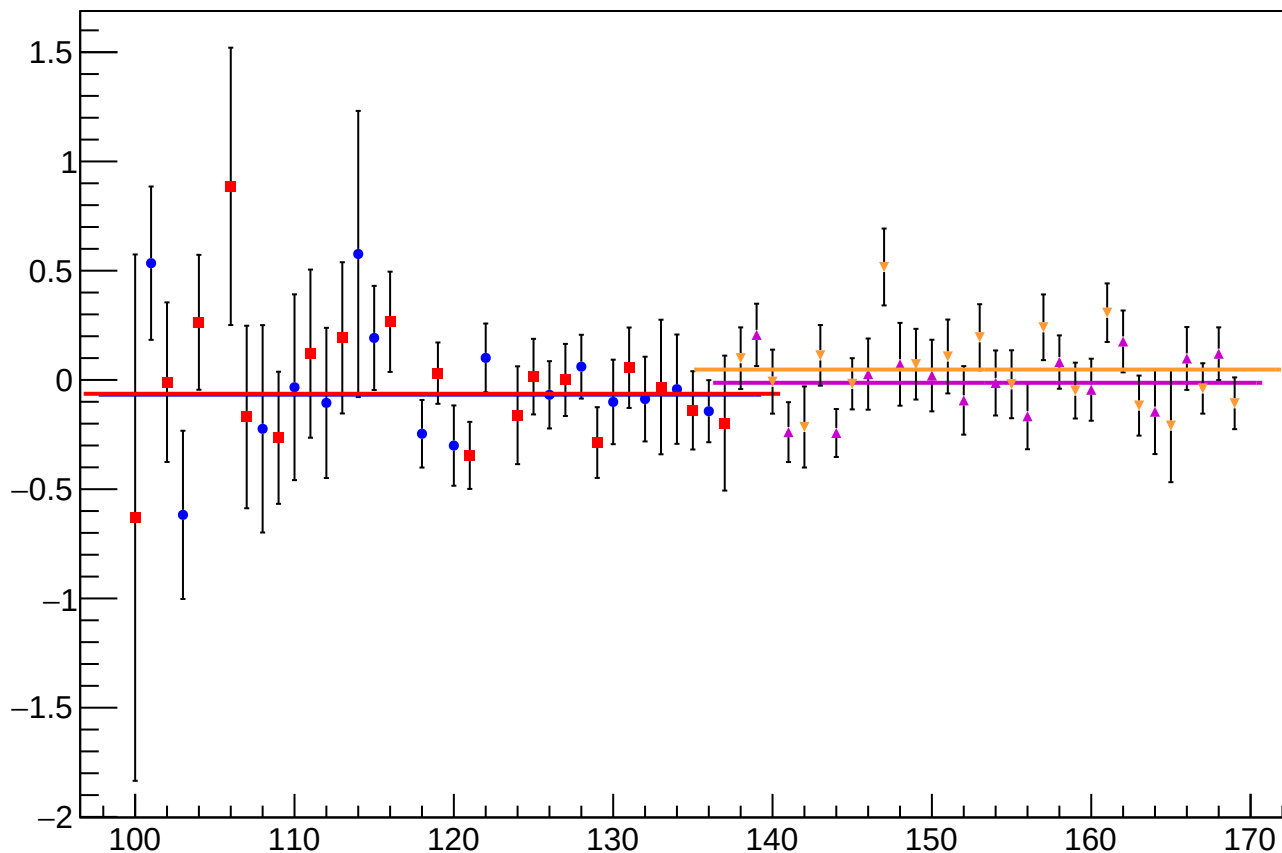
Right: 0.000+/-0.000 χ^2/NDF : 4605860.5/34

In: 0.000+/-0.000 χ^2/NDF :4288098.7/30

Out: 0.000+/-0.000 χ^2/NDF :5441563.4/35

All: 0.000+/-0.000 χ^2/NDF : 9851783.9/66

asym_sam2_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.067 ± 0.052 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 0.048 ± 0.035 $\chi^2/\text{NDF}: 21.9/16$

Right Out: -0.063 ± 0.052 $\chi^2/\text{NDF}: 14.0/18$

Left In: -0.013 ± 0.037 $\chi^2/\text{NDF}: 15.8/14$

Left: 0.019 ± 0.025 $\chi^2/\text{NDF}: 39.1/31$

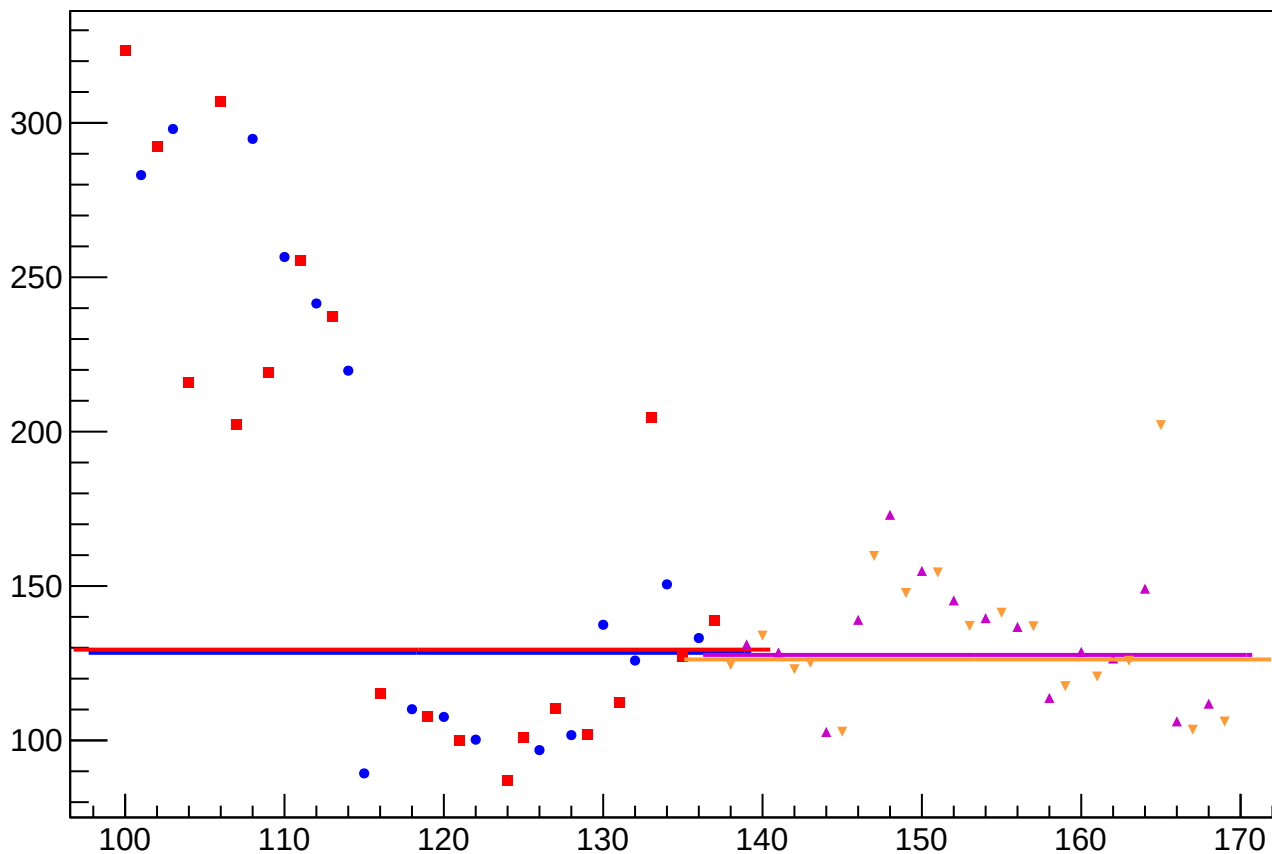
Right: -0.065 ± 0.037 $\chi^2/\text{NDF}: 26.5/34$

In: -0.031 ± 0.030 $\chi^2/\text{NDF}: 28.9/30$

Out: 0.013 ± 0.029 $\chi^2/\text{NDF}: 39.1/35$

All: -0.009 ± 0.021 $\chi^2/\text{NDF}: 69.1/66$

asym_sam2_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.380 $\pm$ 0.037 χ^2 /NDF: 1805078.6/15

Left Out: 126.216 $\pm$ 0.025 χ^2 /NDF: 609570.3/16

Right Out: 129.399 $\pm$ 0.037 χ^2 /NDF: 1888271.6/18

Left In: 127.693 $\pm$ 0.026 χ^2 /NDF: 459173.2/14

Left: 126.912 $\pm$ 0.018 χ^2 /NDF: 1070422.9/31

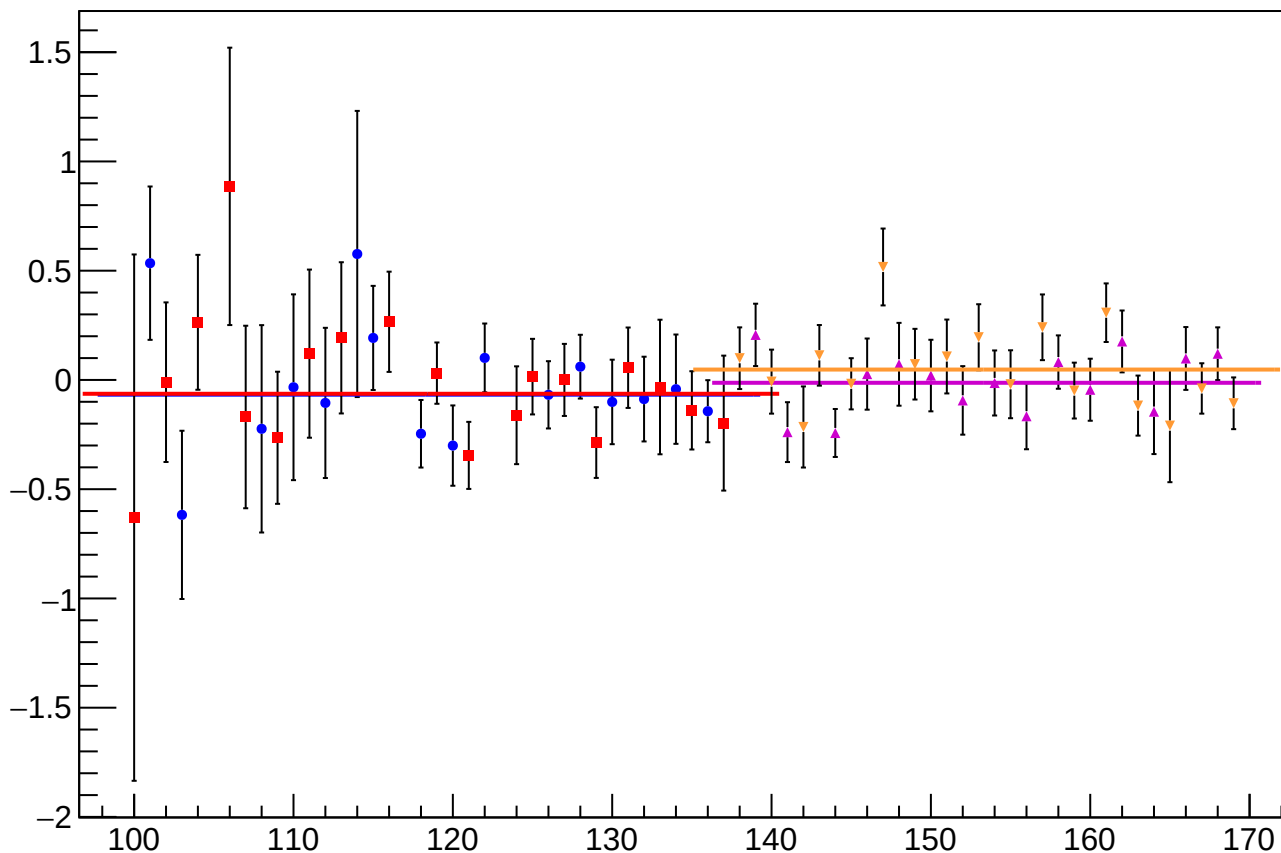
Right: 128.891 $\pm$ 0.026 χ^2 /NDF: 3693738.9/34

In: 127.926 $\pm$ 0.021 χ^2 /NDF: 2264484.3/30

Out: 127.218 $\pm$ 0.020 χ^2 /NDF: 2503051.1/35

All: 127.558 $\pm$ 0.015 χ^2 /NDF: 4768108.8/66

asym_sam2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.067 ± 0.052 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 0.048 ± 0.035 $\chi^2/\text{NDF}: 21.9/16$

Right Out: -0.063 ± 0.052 $\chi^2/\text{NDF}: 14.0/18$

Left In: -0.013 ± 0.037 $\chi^2/\text{NDF}: 15.8/14$

Left: 0.019 ± 0.025 $\chi^2/\text{NDF}: 39.1/31$

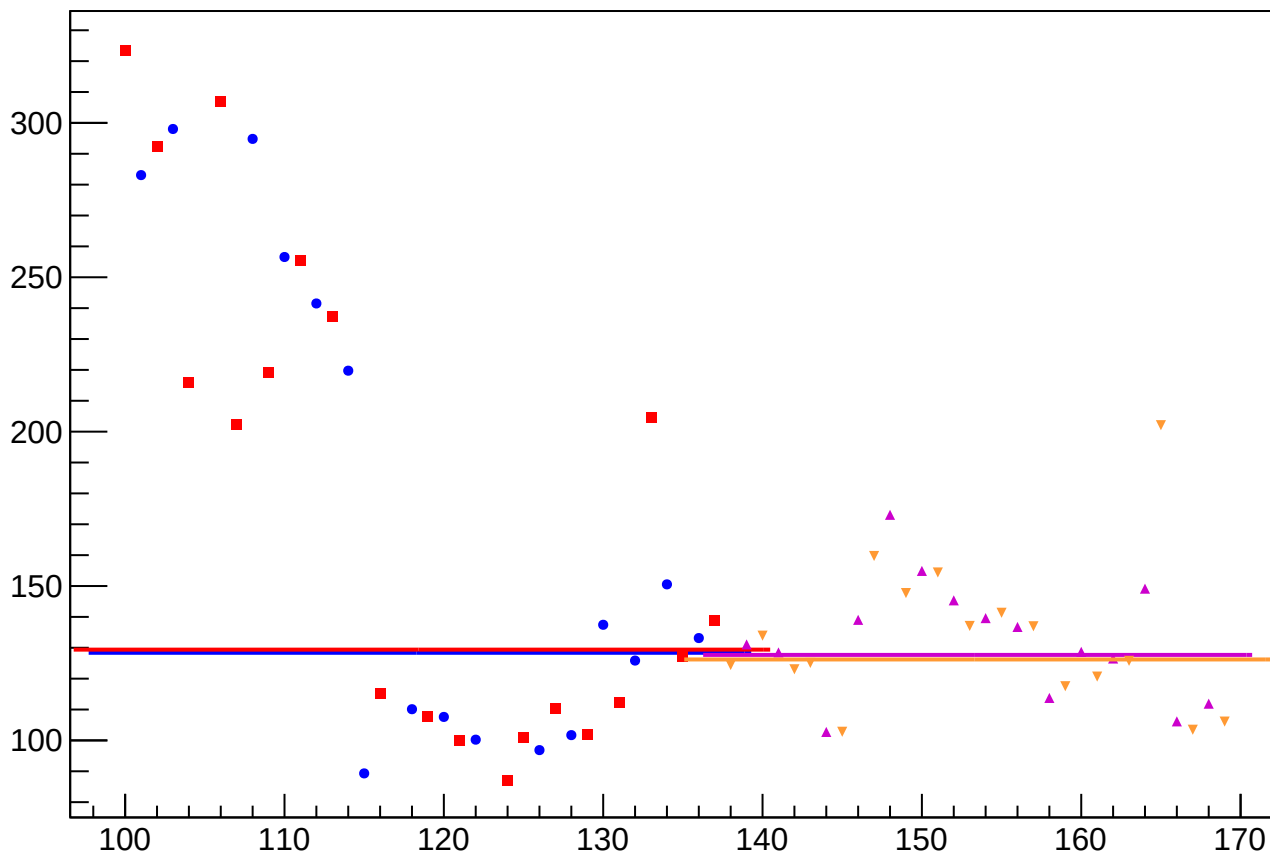
Right: -0.065 ± 0.037 $\chi^2/\text{NDF}: 26.5/34$

In: -0.031 ± 0.030 $\chi^2/\text{NDF}: 28.9/30$

Out: 0.013 ± 0.029 $\chi^2/\text{NDF}: 39.1/35$

All: -0.009 ± 0.021 $\chi^2/\text{NDF}: 69.1/66$

asym_sam2_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.380 $\pm$ 0.037 χ^2 /NDF: 1805078.6/15

Left Out: 126.216 $\pm$ 0.025 χ^2 /NDF:609570.3/16

Right Out: 129.399 $\pm$ 0.037 χ^2 /NDF: 1888271.6/18

Left In: 127.693 $\pm$ 0.026 χ^2 /NDF:459173.2/14

Left: 126.912 $\pm$ 0.018 χ^2 /NDF: 1070422.9/31

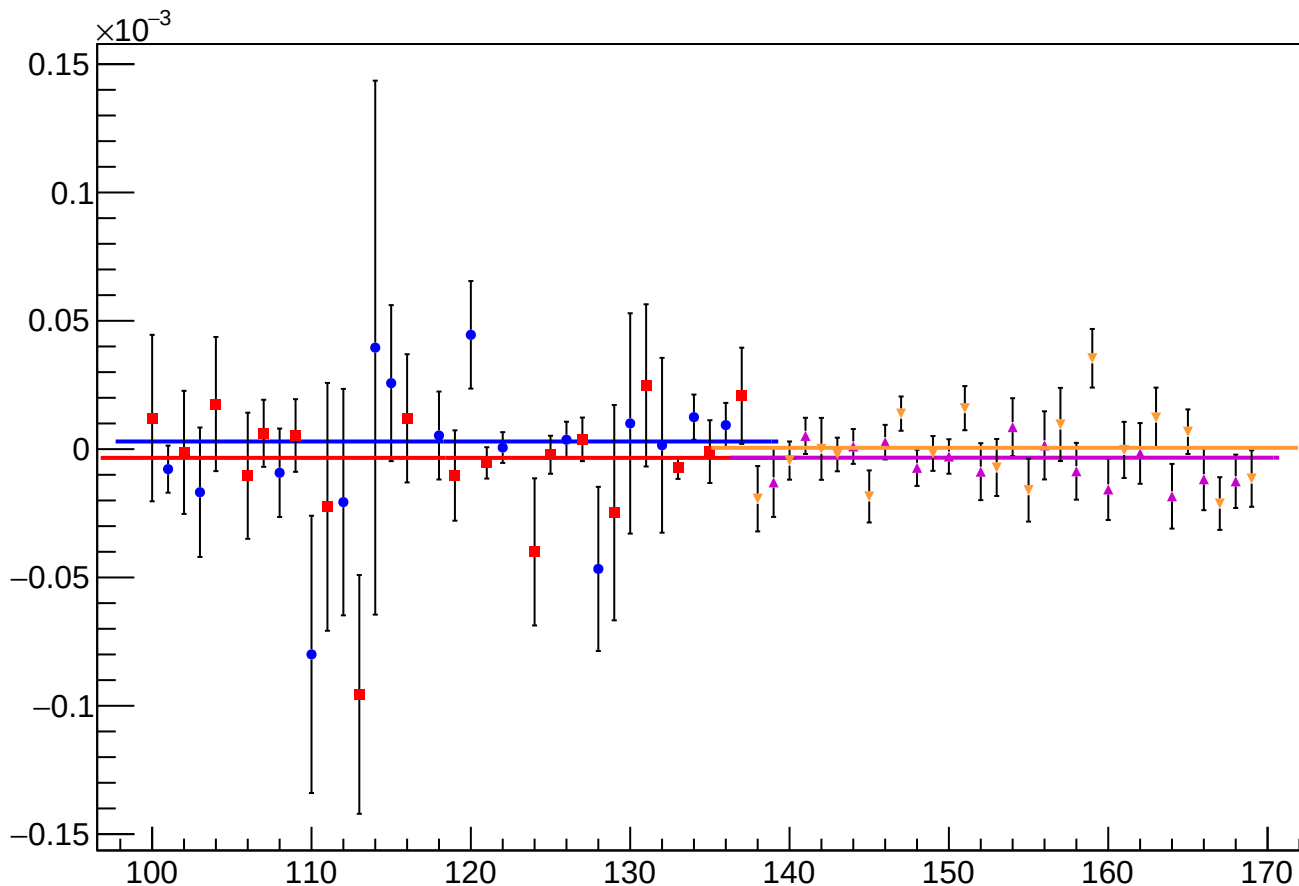
Right: 128.891 $\pm$ 0.026 χ^2 /NDF: 3693738.9/34

In: 127.926 $\pm$ 0.021 χ^2 /NDF:2264484.3/30

Out: 127.218 $\pm$ 0.020 χ^2 /NDF:2503051.1/35

All: 127.558 $\pm$ 0.015 χ^2 /NDF: 4768108.8/66

asym_sam2_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.1/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:33.1/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 12.6/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:9.0/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 43.4/31

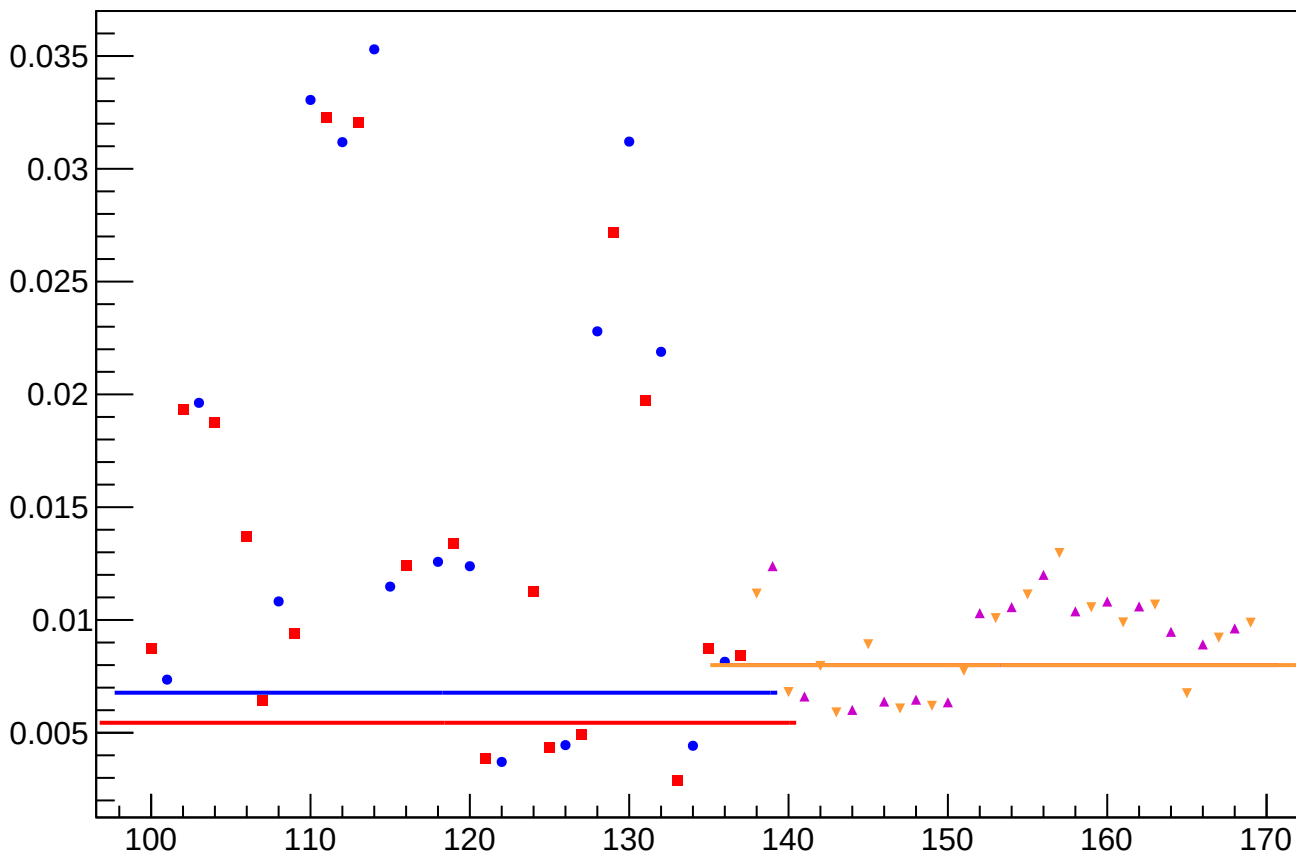
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 29.1/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:25.7/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:46.9/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 72.6/66

asym_sam2_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4772275.3/15

Left Out: 0.008+/-0.000 χ^2/NDF : 1543687.3/16

Right Out: 0.005+/-0.000 χ^2/NDF : 5572364.1/18

Left In: 0.008+/-0.000 χ^2/NDF : 1552540.7/14

Left: 0.008+/-0.000 χ^2/NDF : 3096228.4/31

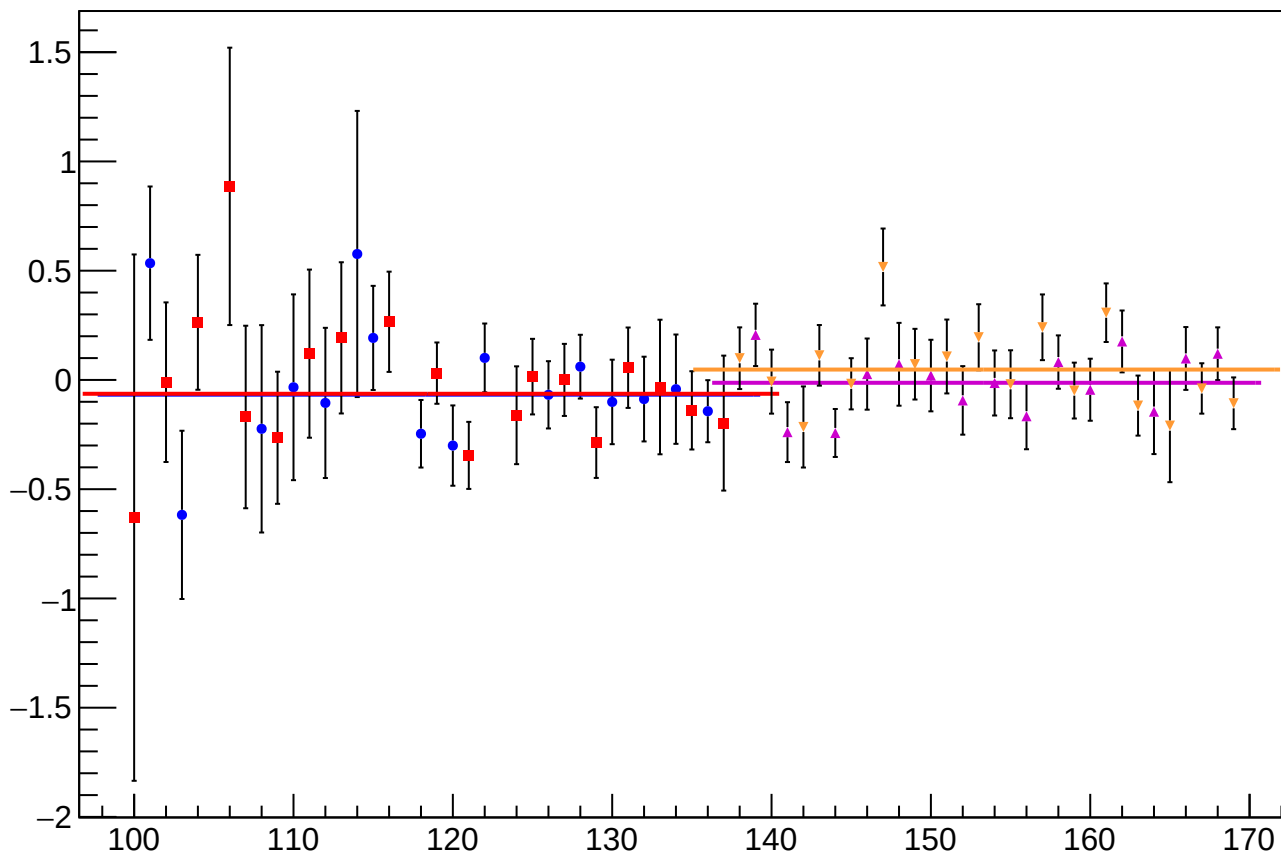
Right: 0.006+/-0.000 χ^2/NDF : 10558524.8/34

In: 0.008+/-0.000 χ^2/NDF : 6518928.9/30

Out: 0.007+/-0.000 χ^2/NDF : 8220406.2/35

All: 0.007+/-0.000 χ^2/NDF : 14873687.4/66

asym_sam2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.067 ± 0.052 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 0.048 ± 0.035 $\chi^2/\text{NDF}: 21.9/16$

Right Out: -0.063 ± 0.052 $\chi^2/\text{NDF}: 14.0/18$

Left In: -0.013 ± 0.037 $\chi^2/\text{NDF}: 15.8/14$

Left: 0.019 ± 0.025 $\chi^2/\text{NDF}: 39.1/31$

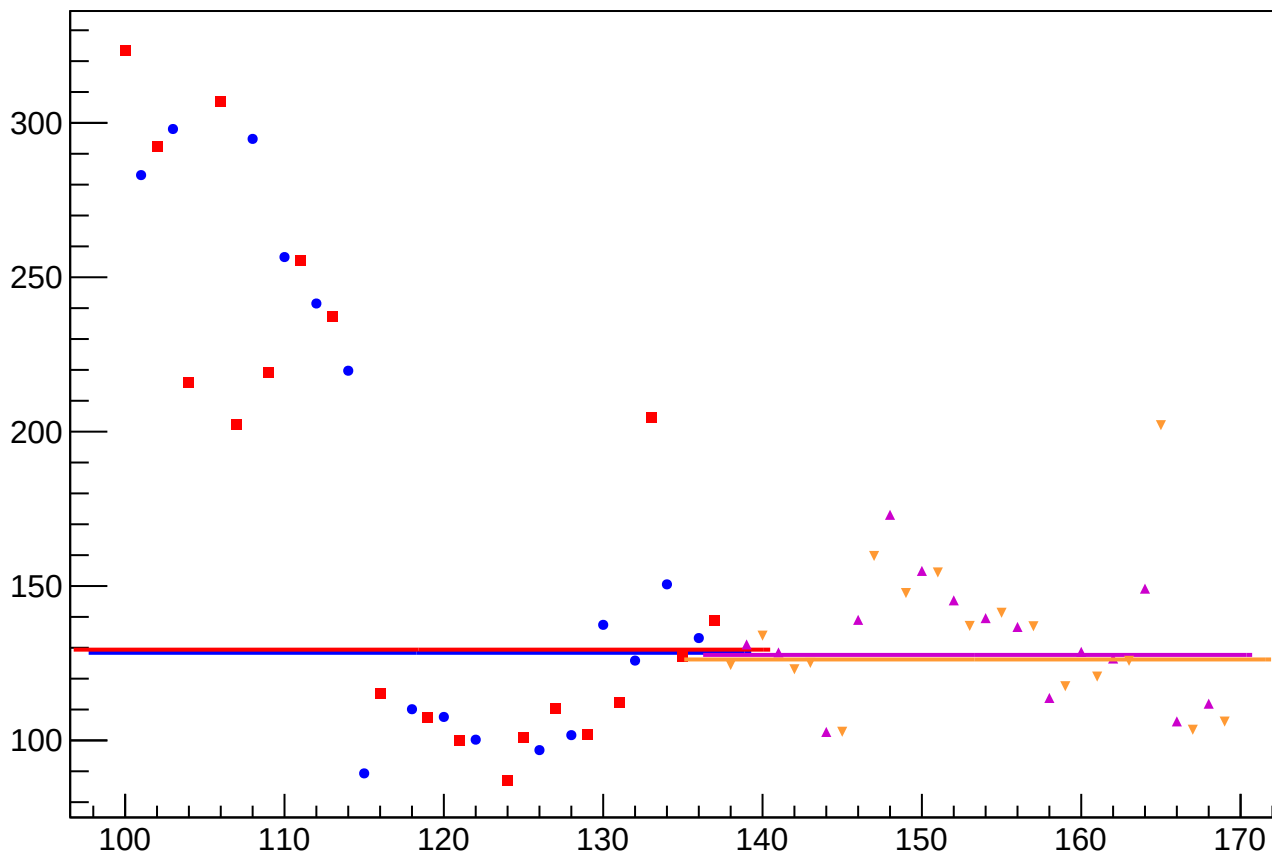
Right: -0.065 ± 0.037 $\chi^2/\text{NDF}: 26.5/34$

In: -0.031 ± 0.030 $\chi^2/\text{NDF}: 28.9/30$

Out: 0.013 ± 0.029 $\chi^2/\text{NDF}: 39.1/35$

All: -0.009 ± 0.021 $\chi^2/\text{NDF}: 69.1/66$

asym_sam2_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.377 $\pm$ 0.037 χ^2 /NDF: 1805026.7/15

Left Out: 126.216 $\pm$ 0.025 χ^2 /NDF:609624.9/16

Right Out: 129.396 $\pm$ 0.036 χ^2 /NDF: 1888272.8/18

Left In: 127.693 $\pm$ 0.026 χ^2 /NDF:459209.5/14

Left: 126.912 $\pm$ 0.018 χ^2 /NDF: 1070513.6/31

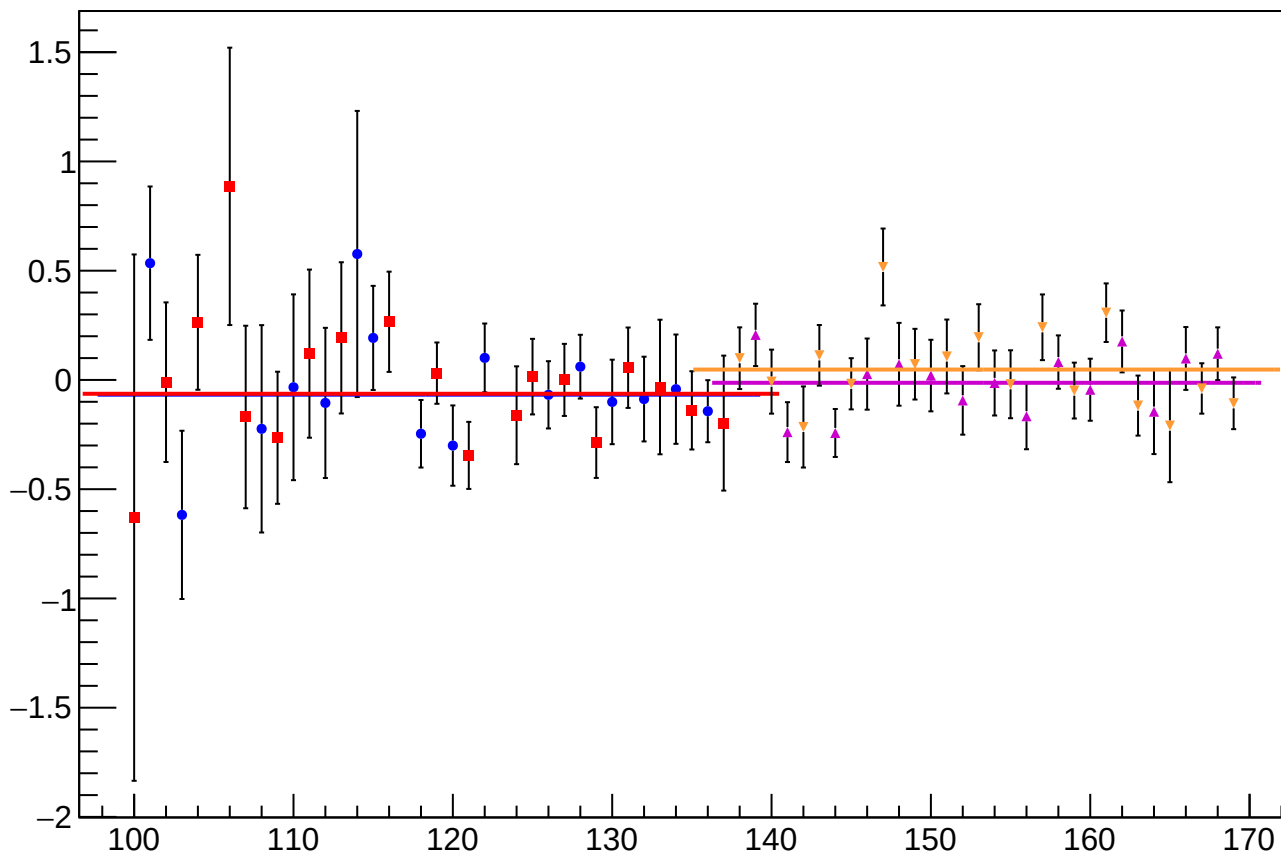
Right: 128.888 $\pm$ 0.026 χ^2 /NDF: 3693688.1/34

In: 127.925 $\pm$ 0.021 χ^2 /NDF:2264466.9/30

Out: 127.217 $\pm$ 0.020 χ^2 /NDF:2503098.1/35

All: 127.557 $\pm$ 0.015 χ^2 /NDF: 4768138.3/66

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.067 ± 0.052 χ^2/NDF : 12.5/15

Left Out: 0.048 ± 0.035 χ^2/NDF : 21.9/16

Right Out: -0.063 ± 0.052 χ^2/NDF : 14.0/18

Left In: -0.013 ± 0.037 χ^2/NDF : 15.8/14

Left: 0.019 ± 0.025 χ^2/NDF : 39.1/31

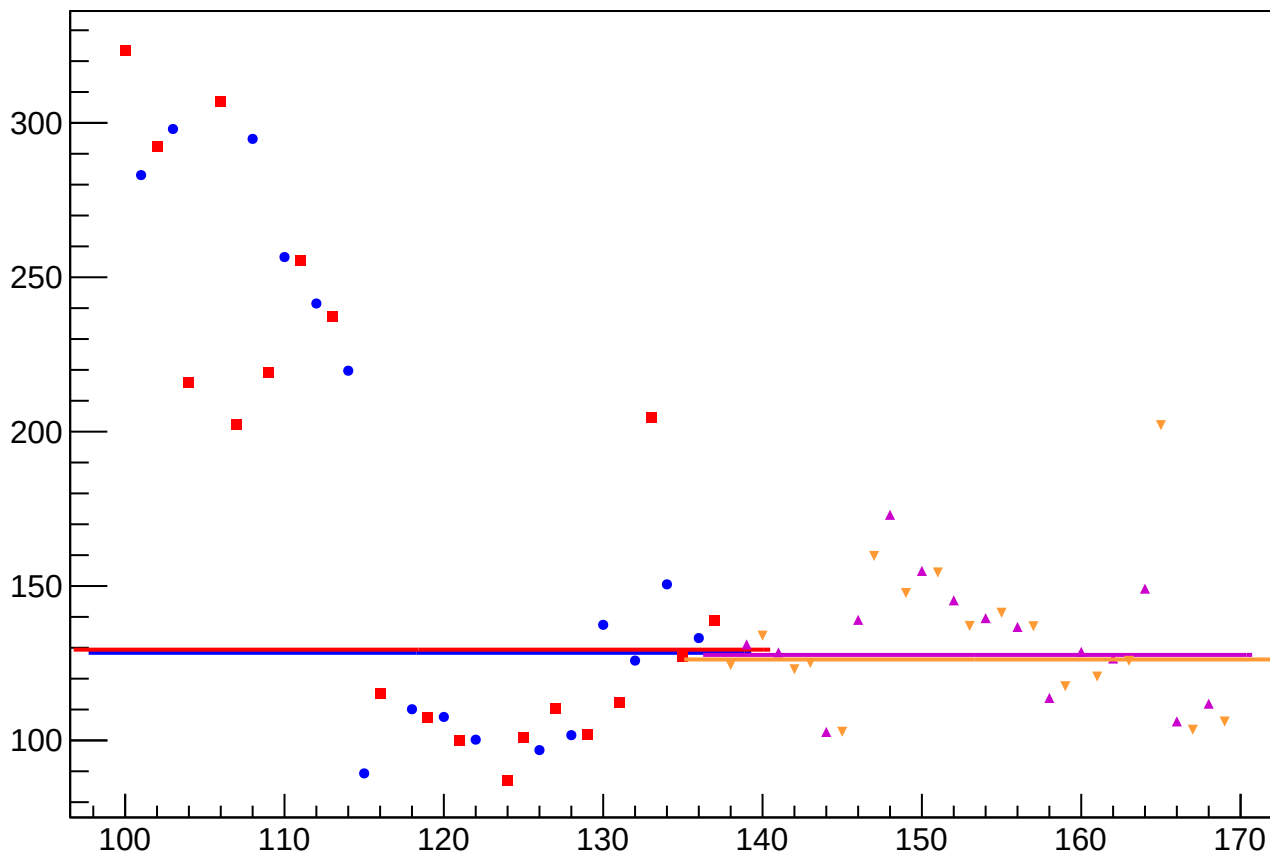
Right: -0.065 ± 0.037 χ^2/NDF : 26.5/34

In: -0.031 ± 0.030 χ^2/NDF : 28.9/30

Out: 0.013 ± 0.029 χ^2/NDF : 39.1/35

All: -0.009 ± 0.021 χ^2/NDF : 69.1/66

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 128.377 ± 0.037 χ^2/NDF : 1805026.7/15

Left Out: 126.216 ± 0.025 χ^2/NDF : 609624.9/16

Right Out: 129.396 ± 0.036 χ^2/NDF : 1888272.8/18

Left In: 127.693 ± 0.026 χ^2/NDF : 459209.5/14

Left: 126.912 ± 0.018 χ^2/NDF : 1070513.6/31

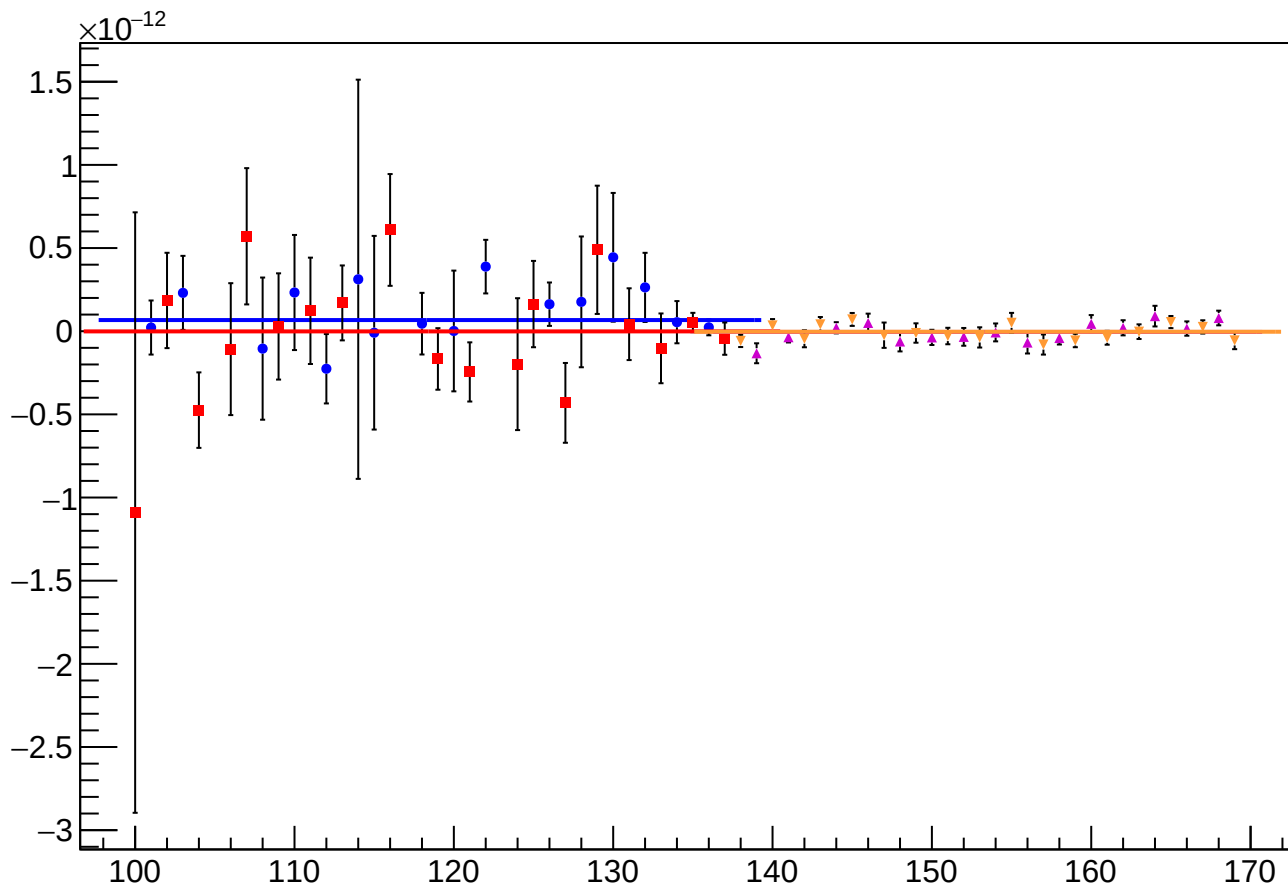
Right: 128.888 ± 0.026 χ^2/NDF : 3693688.1/34

In: 127.925 ± 0.021 χ^2/NDF : 2264466.9/30

Out: 127.217 ± 0.020 χ^2/NDF : 2503098.1/35

All: 127.557 ± 0.015 χ^2/NDF : 4768138.3/66

asym_sam2_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 18.1/16

Right Out: -0.000+/-0.000 χ^2/NDF : 20.7/18

Left In: -0.000+/-0.000 χ^2/NDF : 18.0/14

Left: -0.000+/-0.000 χ^2/NDF : 36.0/31

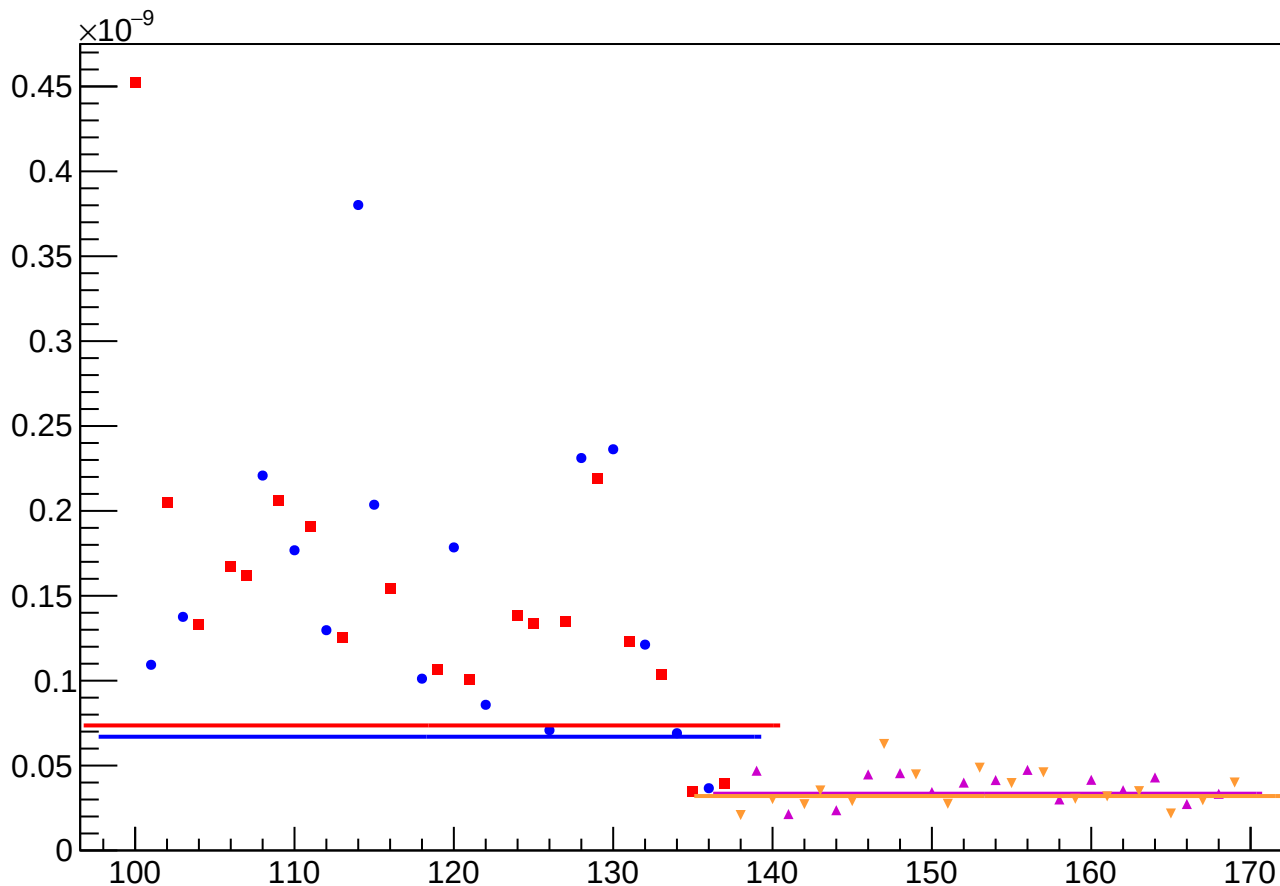
Right: 0.000+/-0.000 χ^2/NDF : 32.7/34

In: 0.000+/-0.000 χ^2/NDF : 31.8/30

Out: -0.000+/-0.000 χ^2/NDF : 38.7/35

All: -0.000+/-0.000 χ^2/NDF : 70.7/66

asym_sam2_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3180725.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :1179384.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3653663.9/18

Left In: 0.000+/-0.000 χ^2/NDF :1042644.7/14

Left: 0.000+/-0.000 χ^2/NDF : 2236265.1/31

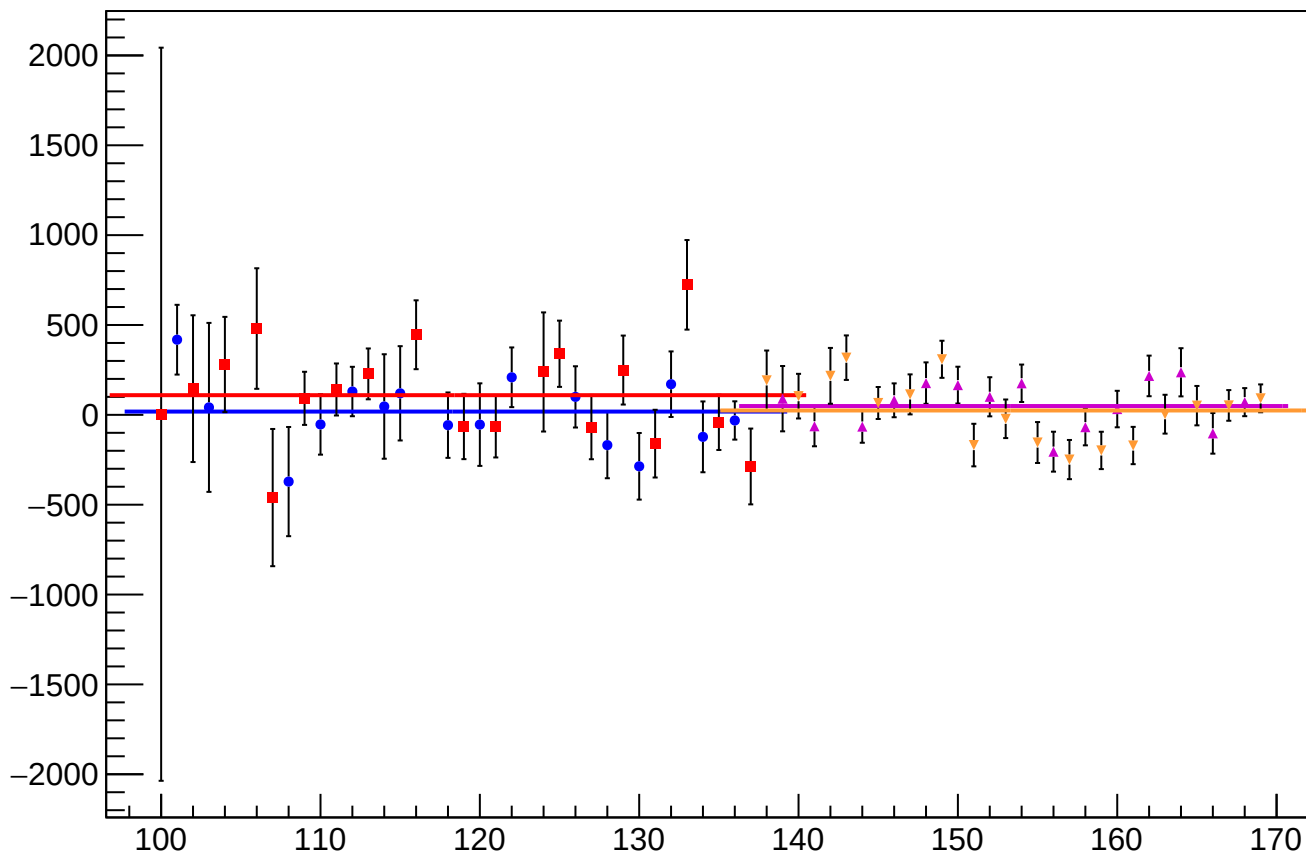
Right: 0.000+/-0.000 χ^2/NDF : 6865290.4/34

In: 0.000+/-0.000 χ^2/NDF :5779671.9/30

Out: 0.000+/-0.000 χ^2/NDF :6898077.4/35

All: 0.000+/-0.000 χ^2/NDF : 12699813.0/66

reg_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.204+/-45.704 χ^2/NDF : 13.9/15

Left Out: 24.309+/-25.947 χ^2/NDF : 37.7/16

Right Out: 109.432+/-45.825 χ^2/NDF : 25.5/18

Left In: 49.029+/-27.258 χ^2/NDF : 19.7/14

Left: 36.060+/-18.794 χ^2/NDF : 57.8/31

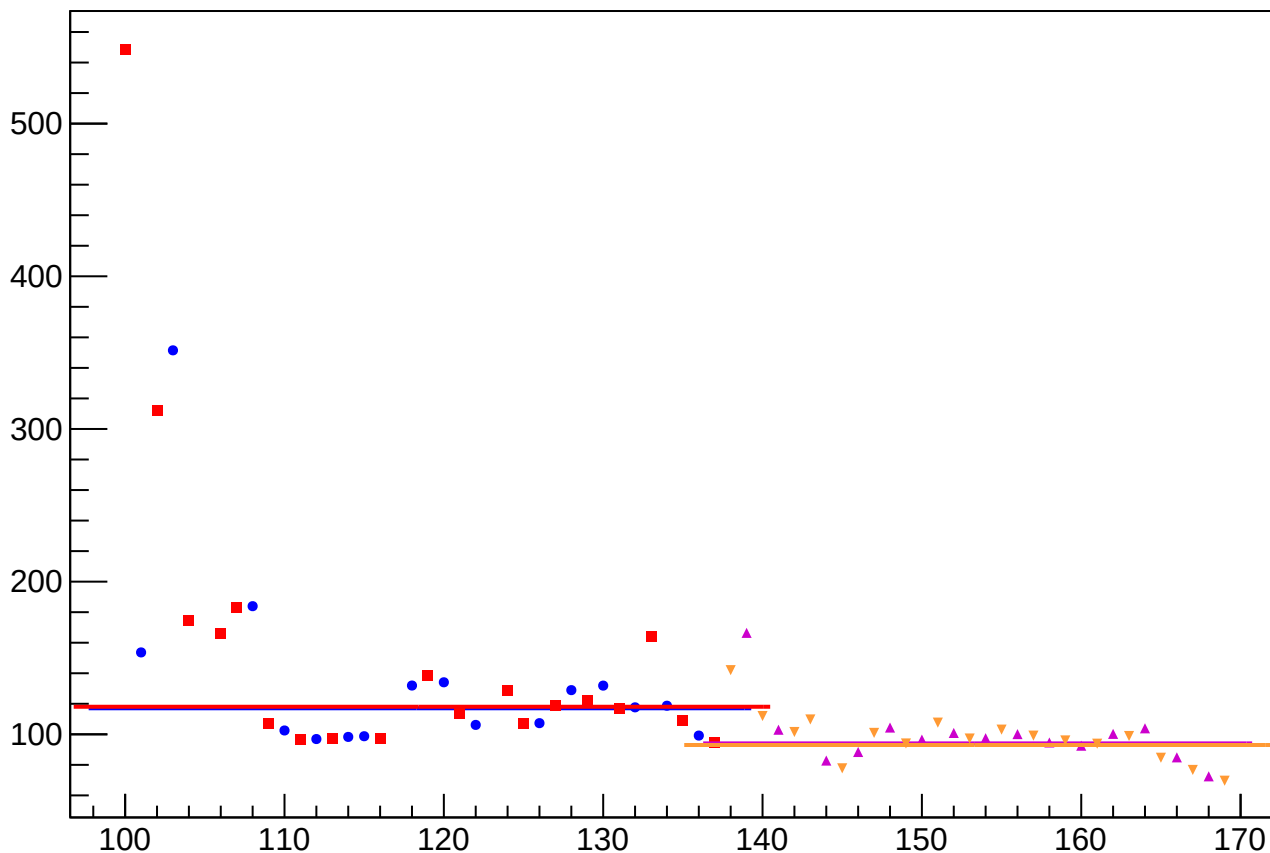
Right: 63.698+/-32.360 χ^2/NDF : 41.3/34

In: 40.942+/-23.411 χ^2/NDF : 33.9/30

Out: 44.974+/-22.579 χ^2/NDF : 65.8/35

All: 43.031+/-16.252 χ^2/NDF : 99.7/66

reg_asym_sam3_rms vs Slug, Sign Corrected



Right In: 117.063 $\pm$ 0.032 χ^2 /NDF: 858400.8/15

Left Out: 93.009 $\pm$ 0.018 χ^2 /NDF:662767.9/16

Right Out: 118.057 $\pm$ 0.032 χ^2 /NDF: 990748.0/18

Left In: 94.062 $\pm$ 0.019 χ^2 /NDF:585193.4/14

Left: 93.510 $\pm$ 0.013 χ^2 /NDF: 1249527.9/31

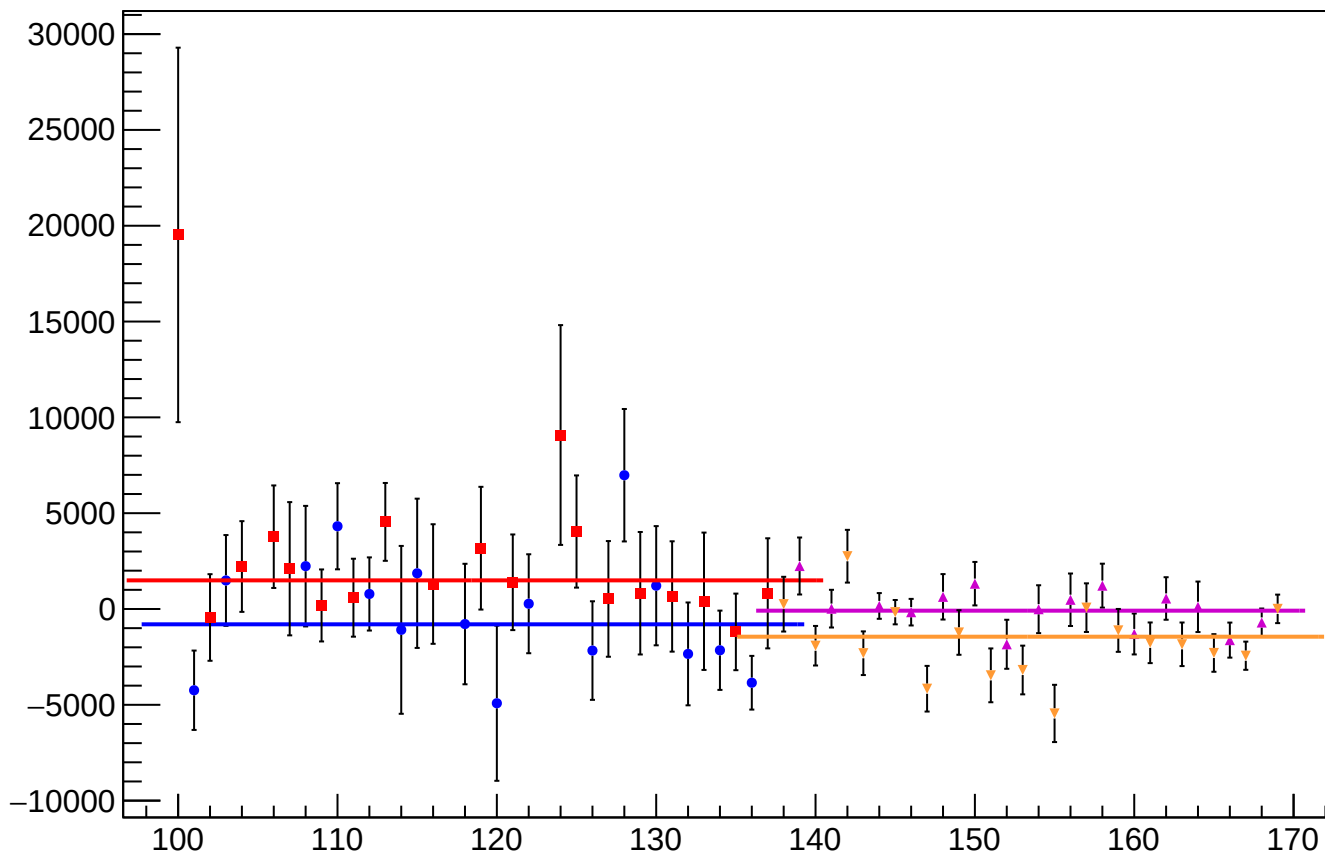
Right: 117.559 $\pm$ 0.023 χ^2 /NDF: 1849621.4/34

In: 100.097 $\pm$ 0.017 χ^2 /NDF:1817203.1/30

Out: 99.090 $\pm$ 0.016 χ^2 /NDF:2106014.9/35

All: 99.575 $\pm$ 0.011 χ^2 /NDF: 3925134.7/66

asym_sam3_reg_correction_mean vs Slug, Sign Corrected



Right In: -799.133+/-616.009 χ^2/NDF : 23.4/15

Left Out: -1445.663+/-250.004 χ^2/NDF :40.0/16

Right Out: 1493.897+/-613.097 χ^2/NDF : 12.9/18

Left In: -87.352+/-256.834 χ^2/NDF :13.1/14

Left: -784.809+/-179.145 χ^2/NDF : 67.4/31

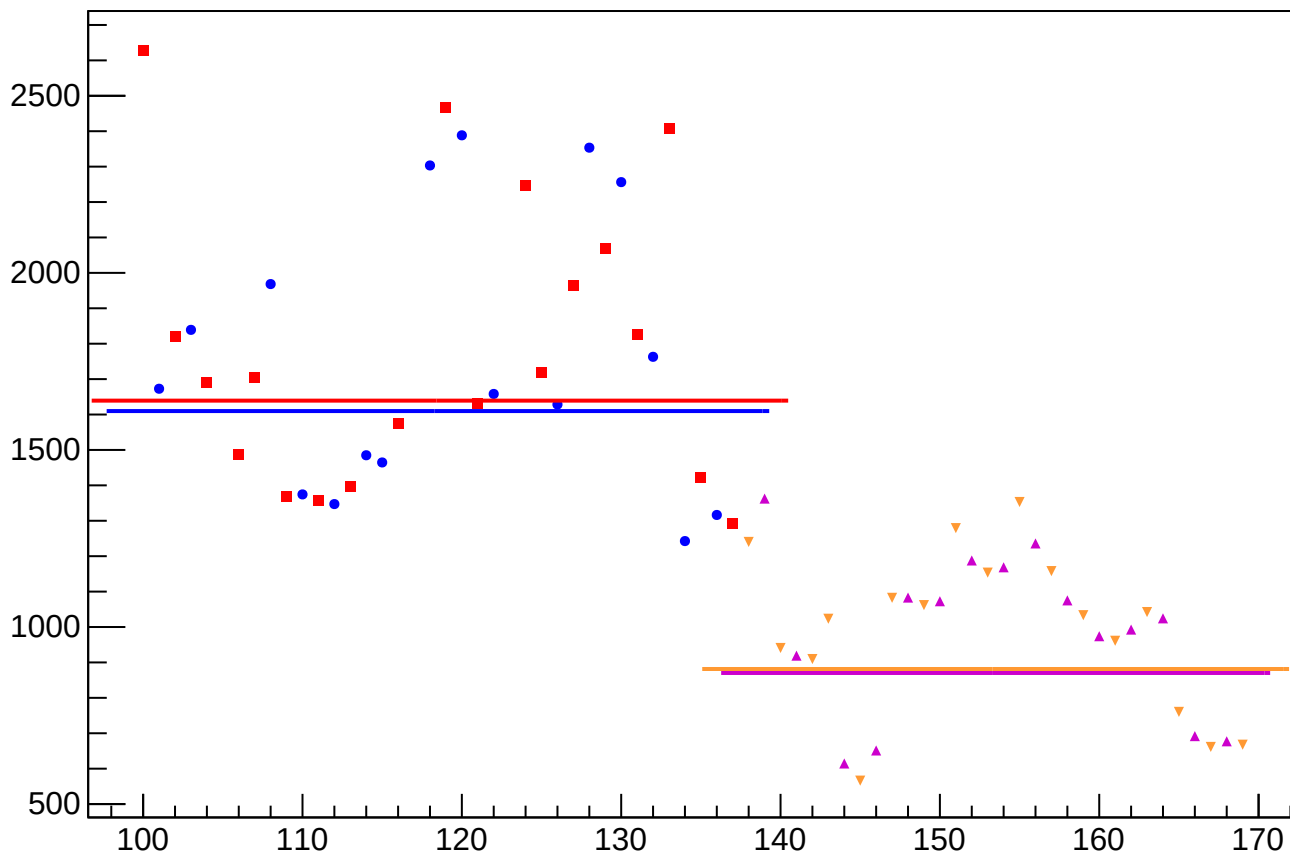
Right: 352.815+/-434.551 χ^2/NDF : 43.3/34

In: -192.760+/-237.055 χ^2/NDF :37.6/30

Out: -1026.565+/-231.497 χ^2/NDF :72.6/35

All: -619.552+/-165.623 χ^2/NDF : 116.6/66

asym_sam3_reg_correction_rms vs Slug, Sign Corrected



Right In: 1609.782 $\pm$ 0.436 χ^2/NDF : 619129.2/15

Left Out: 881.451 $\pm$ 0.177 χ^2/NDF : 1771514.1/16

Right Out: 1639.241 $\pm$ 0.434 χ^2/NDF : 520182.2/18

Left In: 870.217 $\pm$ 0.182 χ^2/NDF : 1572221.2/14

Left: 875.985 $\pm$ 0.127 χ^2/NDF : 3345700.2/31

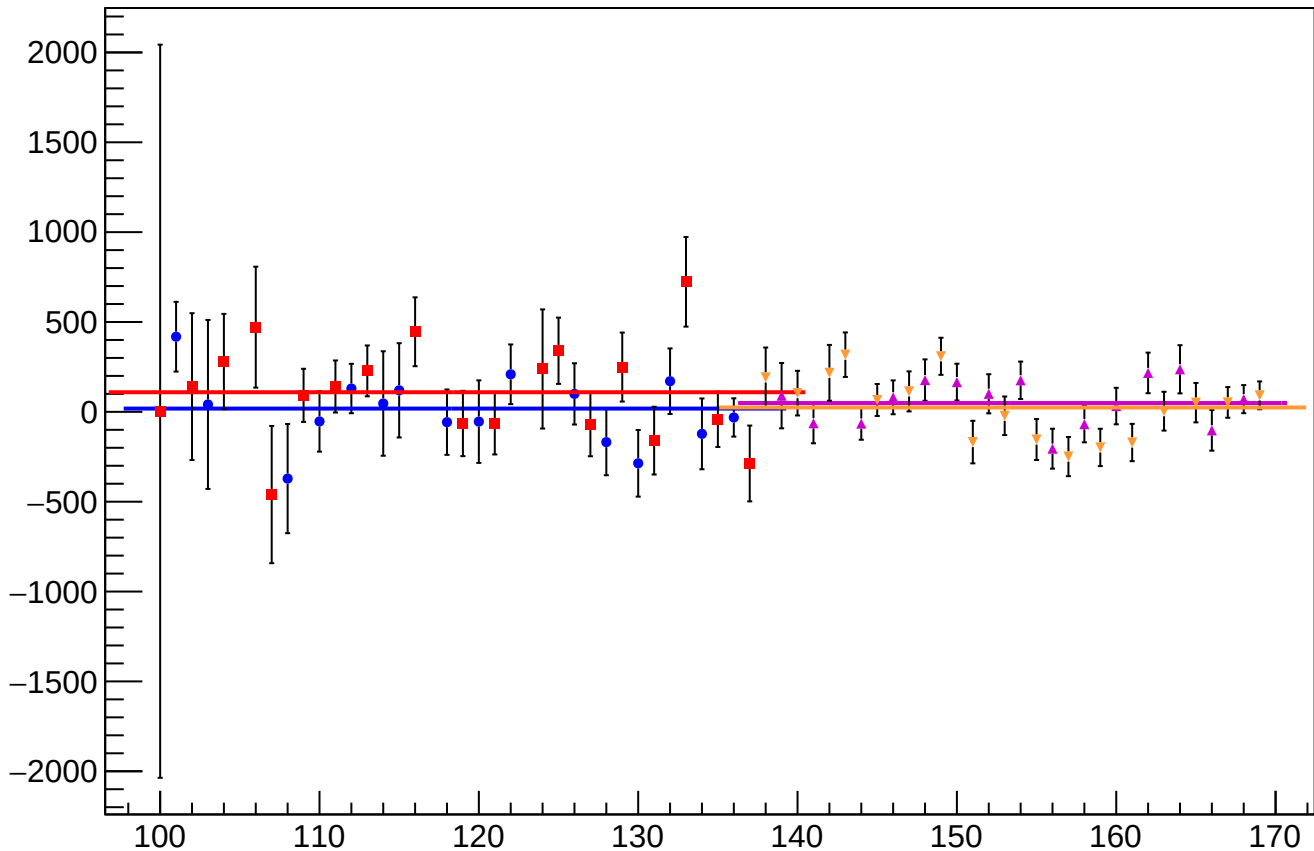
Right: 1624.581 $\pm$ 0.307 χ^2/NDF : 1141609.2/34

In: 979.739 $\pm$ 0.168 χ^2/NDF : 4647202.5/30

Out: 989.490 $\pm$ 0.164 χ^2/NDF : 4911491.6/35

All: 984.730 $\pm$ 0.117 χ^2/NDF : 9560426.5/66

cor_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.191+/-45.704 χ^2/NDF : 13.9/15

Left Out: 24.316+/-25.947 χ^2/NDF : 37.7/16

Right Out: 109.151+/-45.828 χ^2/NDF : 25.4/18

Left In: 49.031+/-27.258 χ^2/NDF : 19.7/14

Left: 36.064+/-18.794 χ^2/NDF : 57.8/31

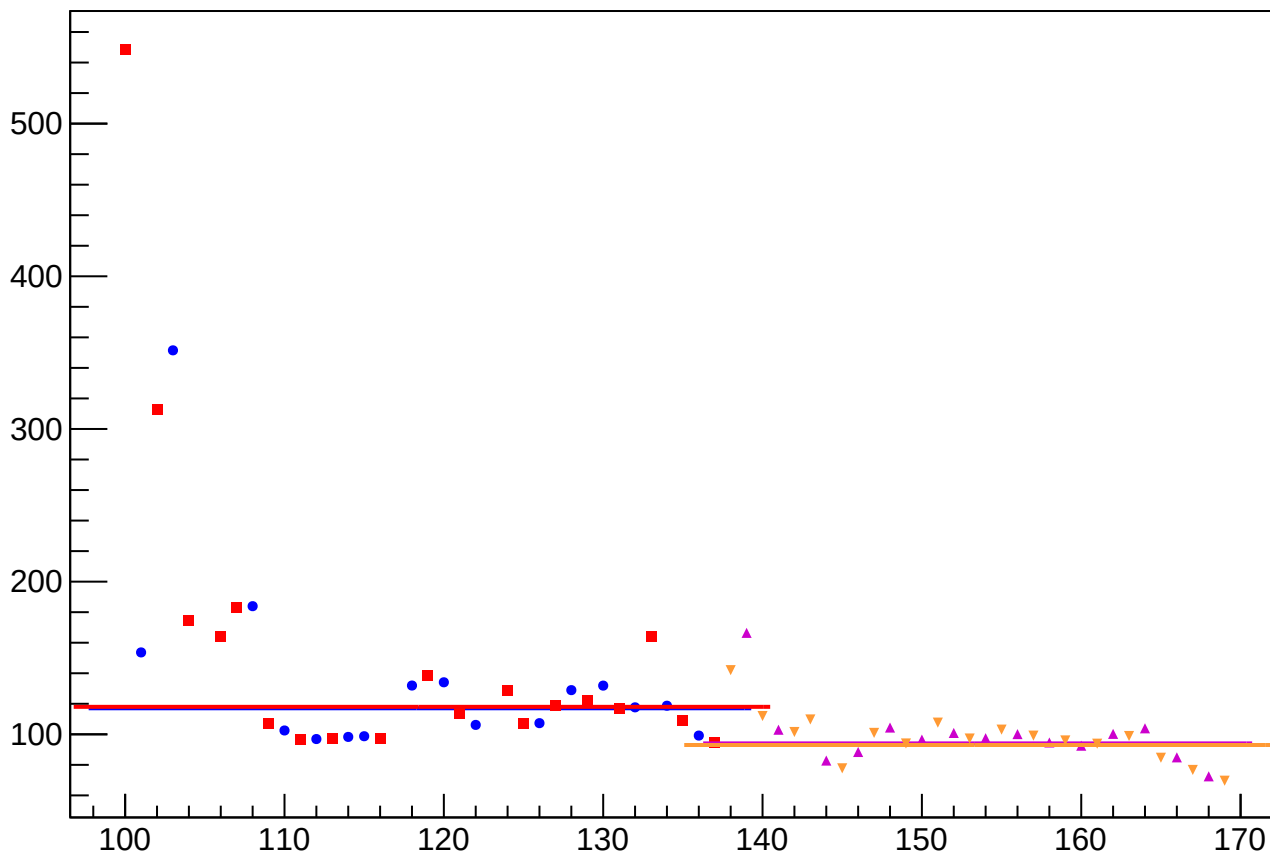
Right: 63.548+/-32.361 χ^2/NDF : 41.2/34

In: 40.939+/-23.411 χ^2/NDF : 33.9/30

Out: 44.909+/-22.579 χ^2/NDF : 65.7/35

All: 42.996+/-16.252 χ^2/NDF : 99.6/66

cor_asym_sam3_rms vs Slug, Sign Corrected



Right In: 117.063+/-0.032 χ^2/NDF : 858402.8/15

Left Out: 93.009+/-0.018 χ^2/NDF : 662767.8/16

Right Out: 118.006+/-0.032 χ^2/NDF : 986553.8/18

Left In: 94.062+/-0.019 χ^2/NDF : 585193.4/14

Left: 93.510+/-0.013 χ^2/NDF : 1249527.8/31

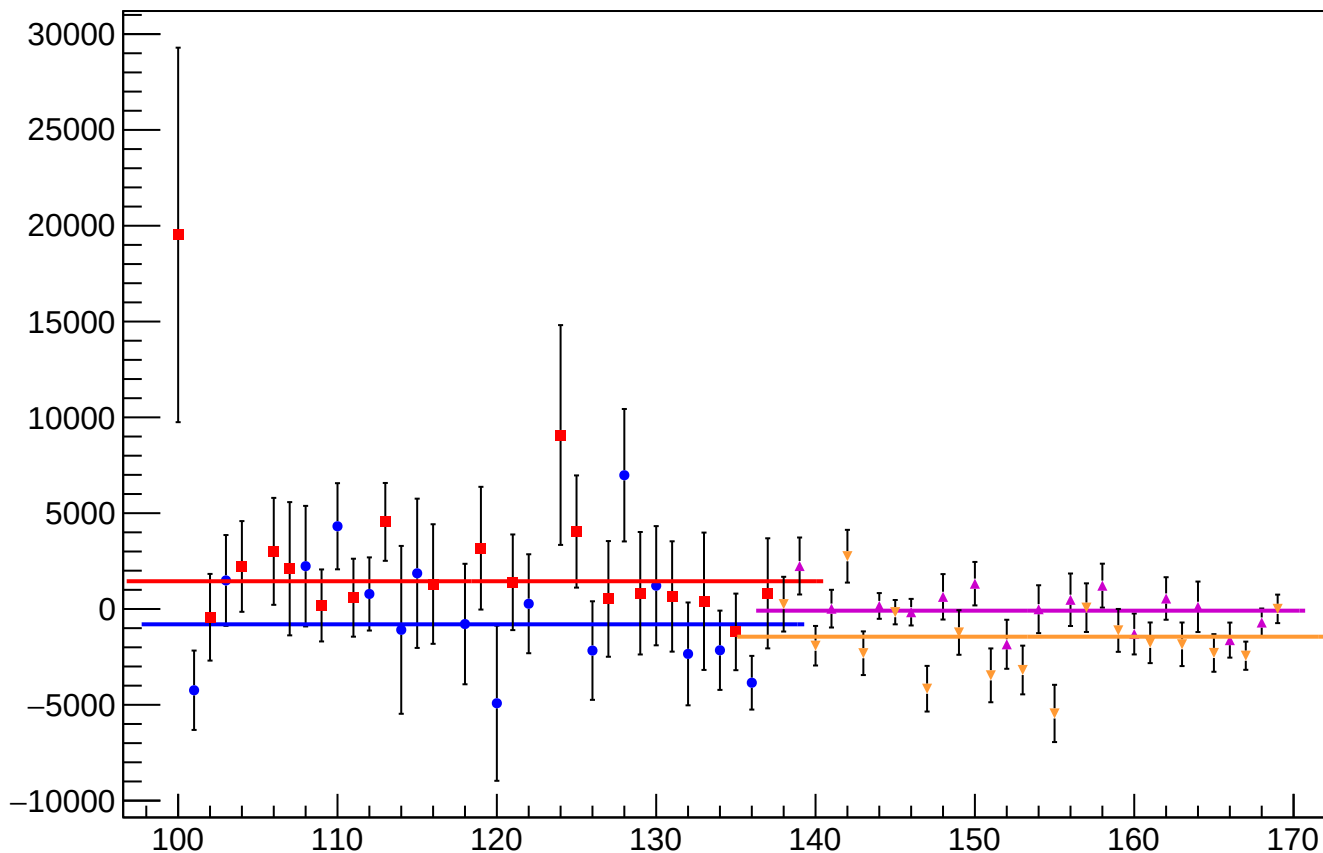
Right: 117.533+/-0.023 χ^2/NDF : 1845381.4/34

In: 100.097+/-0.017 χ^2/NDF : 1817204.9/30

Out: 99.077+/-0.016 χ^2/NDF : 2099906.7/35

All: 99.569+/-0.011 χ^2/NDF : 3919078.7/66

asym_sam3_cor_correction_mean vs Slug, Sign Corrected



Right In: -799.116 $\pm$ 616.014 χ^2 /NDF: 23.4/15

Left Out: -1445.651 $\pm$ 250.004 χ^2 /NDF:40.0/16

Right Out: 1448.433 $\pm$ 614.443 χ^2 /NDF: 12.5/18

Left In: -87.348 $\pm$ 256.834 χ^2 /NDF:13.1/14

Left: -784.801 $\pm$ 179.145 χ^2 /NDF: 67.4/31

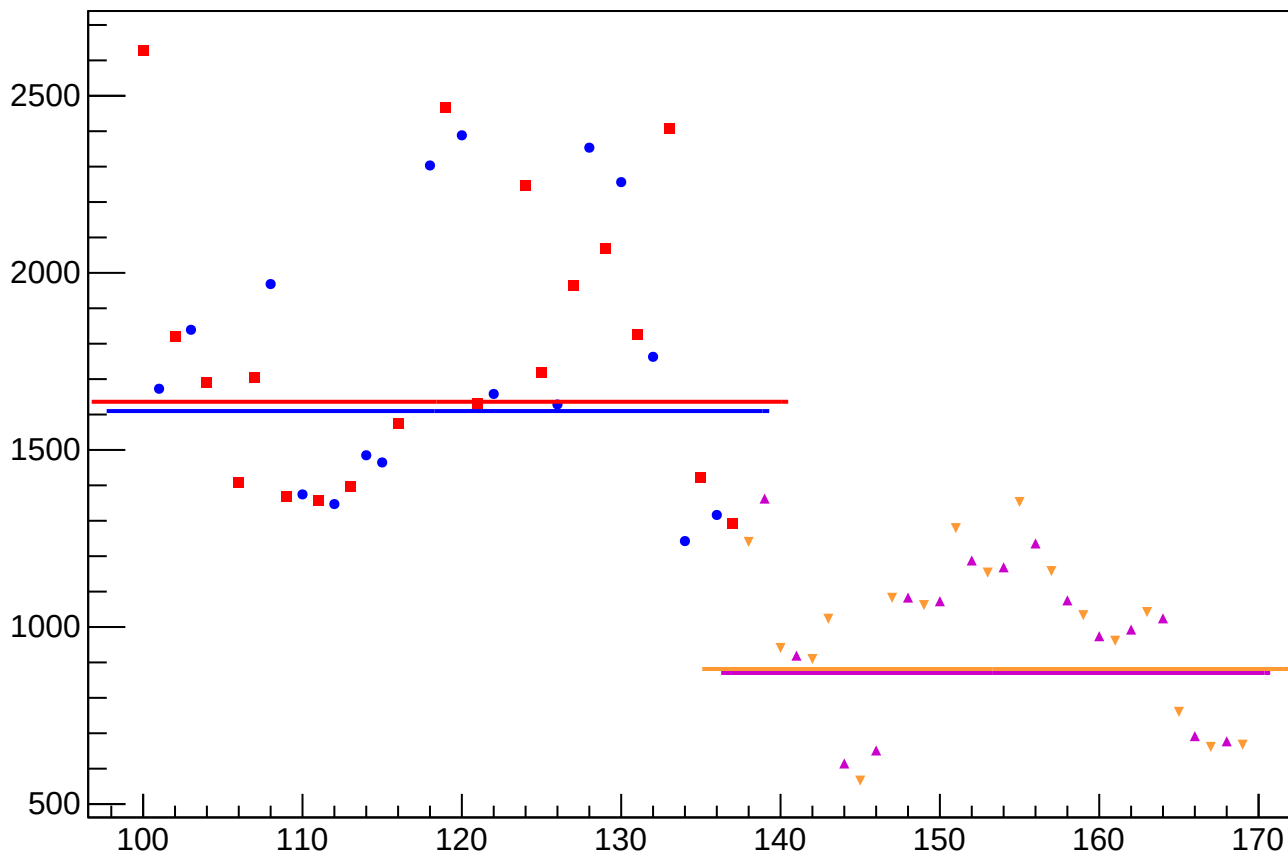
Right: 327.528 $\pm$ 435.031 χ^2 /NDF: 42.6/34

In: -192.752 $\pm$ 237.055 χ^2 /NDF:37.6/30

Out: -1034.586 $\pm$ 231.569 χ^2 /NDF:71.5/35

All: -623.523 $\pm$ 165.650 χ^2 /NDF: 115.6/66

asym_sam3_cor_correction_rms vs Slug, Sign Corrected



Right In: 1609.791+/-0.436 χ^2/NDF : 619158.3/15

Left Out: 881.450+/-0.177 χ^2/NDF : 1771518.5/16

Right Out: 1636.046+/-0.434 χ^2/NDF : 527809.9/18

Left In: 870.217+/-0.182 χ^2/NDF : 1572221.3/14

Left: 875.985+/-0.127 χ^2/NDF : 3345704.5/31

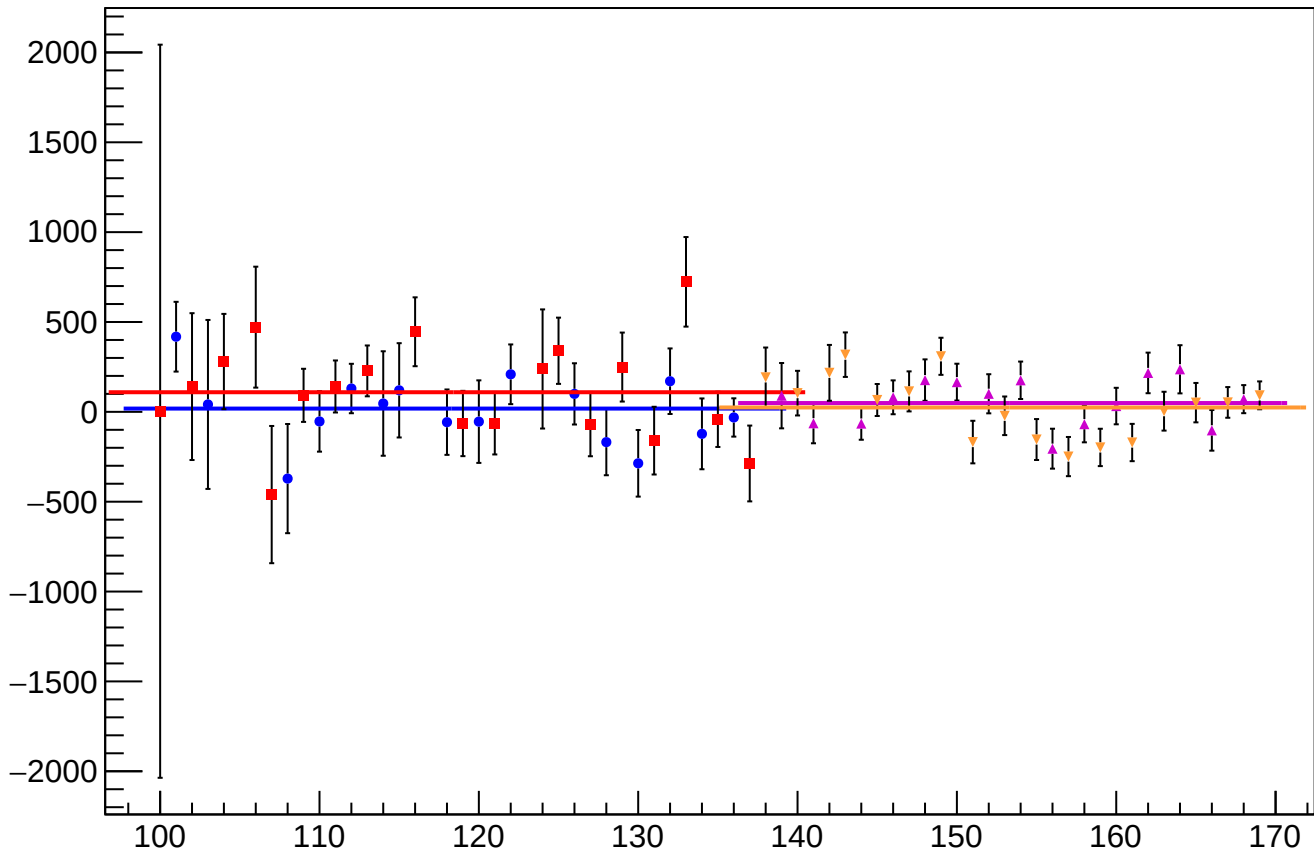
Right: 1622.952+/-0.308 χ^2/NDF : 1148789.4/34

In: 979.738+/-0.168 χ^2/NDF : 4647263.6/30

Out: 988.630+/-0.164 χ^2/NDF : 4887328.7/35

All: 984.288+/-0.117 χ^2/NDF : 9536032.2/66

eigen_cor_asym_sam3_mean vs Slug, Sign Corrected



Right In: 18.191+/-45.704 χ^2/NDF : 13.9/15

Left Out: 24.316+/-25.947 χ^2/NDF : 37.7/16

Right Out: 109.151+/-45.828 χ^2/NDF : 25.4/18

Left In: 49.031+/-27.258 χ^2/NDF : 19.7/14

Left: 36.064+/-18.794 χ^2/NDF : 57.8/31

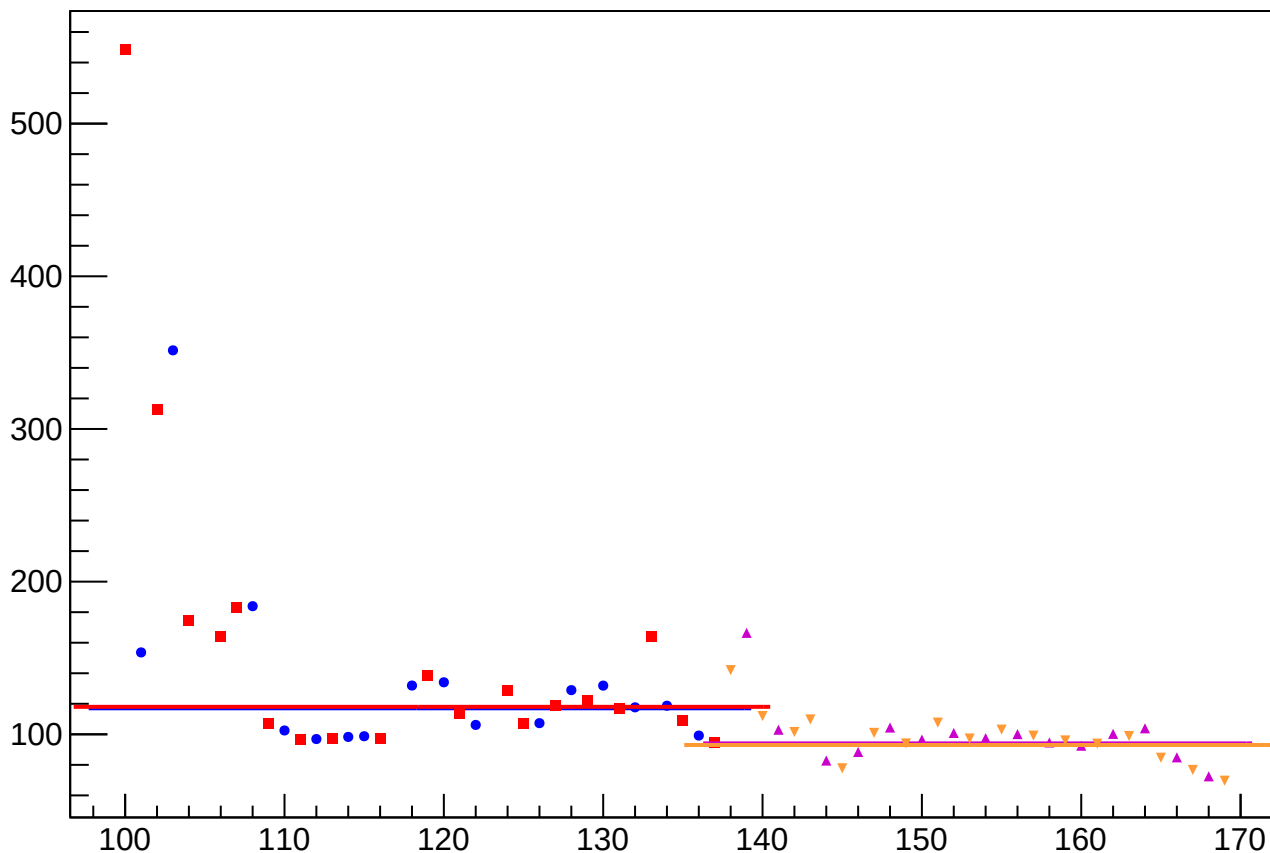
Right: 63.548+/-32.361 χ^2/NDF : 41.2/34

In: 40.939+/-23.411 χ^2/NDF : 33.9/30

Out: 44.909+/-22.579 χ^2/NDF : 65.7/35

All: 42.996+/-16.252 χ^2/NDF : 99.6/66

eigen_cor_asym_sam3_rms vs Slug, Sign Corrected



Right In: 117.063 $\pm$ 0.032 χ^2 /NDF: 858402.8/15

Left Out: 93.009 $\pm$ 0.018 χ^2 /NDF:662767.8/16

Right Out: 118.006 $\pm$ 0.032 χ^2 /NDF: 986553.8/18

Left In: 94.062 $\pm$ 0.019 χ^2 /NDF:585193.4/14

Left: 93.510 $\pm$ 0.013 χ^2 /NDF: 1249527.8/31

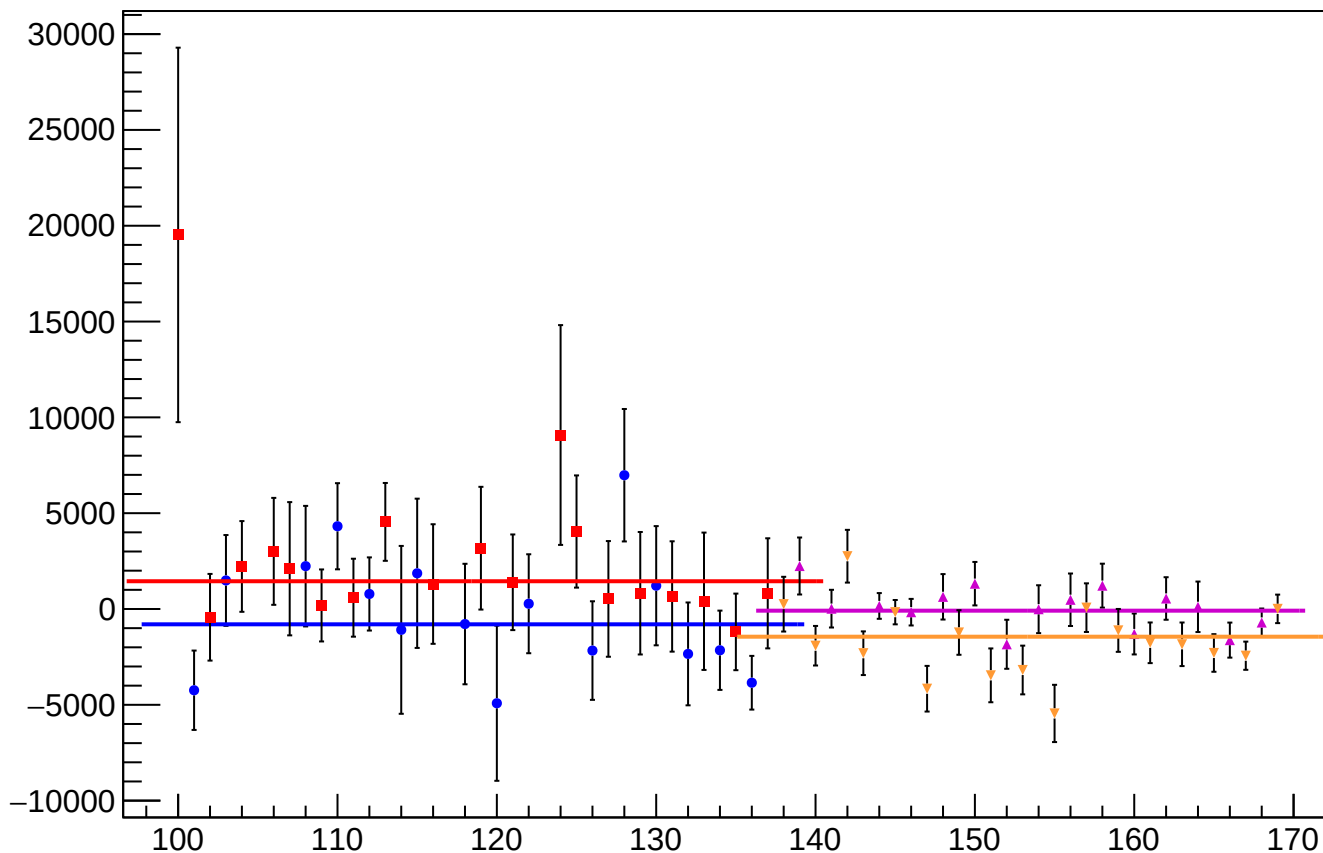
Right: 117.533 $\pm$ 0.023 χ^2 /NDF: 1845381.4/34

In: 100.097 $\pm$ 0.017 χ^2 /NDF:1817204.9/30

Out: 99.077 $\pm$ 0.016 χ^2 /NDF:2099906.7/35

All: 99.569 $\pm$ 0.011 χ^2 /NDF: 3919078.7/66

asym_sam3_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -799.116 ± 616.014 $\chi^2/\text{NDF}: 23.4/15$

Left Out: -1445.651 ± 250.004 $\chi^2/\text{NDF}: 40.0/16$

Right Out: 1448.433 ± 614.443 $\chi^2/\text{NDF}: 12.5/18$

Left In: -87.348 ± 256.834 $\chi^2/\text{NDF}: 13.1/14$

Left: -784.801 ± 179.145 $\chi^2/\text{NDF}: 67.4/31$

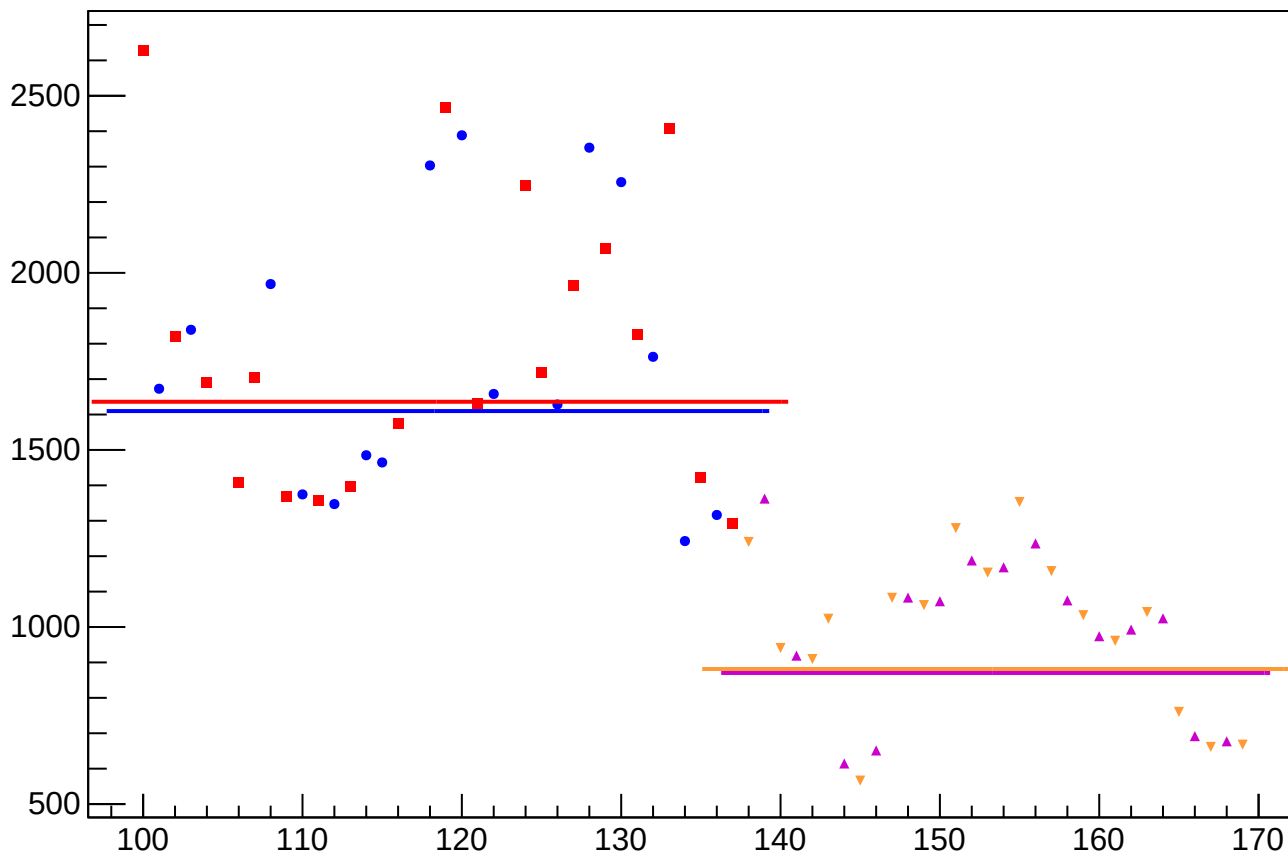
Right: 327.528 ± 435.031 $\chi^2/\text{NDF}: 42.6/34$

In: -192.752 ± 237.055 $\chi^2/\text{NDF}: 37.6/30$

Out: -1034.586 ± 231.569 $\chi^2/\text{NDF}: 71.5/35$

All: -623.523 ± 165.650 $\chi^2/\text{NDF}: 115.6/66$

asym_sam3_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1609.791+/-0.436 χ^2/NDF : 619158.3/15

Left Out: 881.450+/-0.177 χ^2/NDF : 1771518.5/16

Right Out: 1636.046+/-0.434 χ^2/NDF : 527809.9/18

Left In: 870.217+/-0.182 χ^2/NDF : 1572221.3/14

Left: 875.985+/-0.127 χ^2/NDF : 3345704.5/31

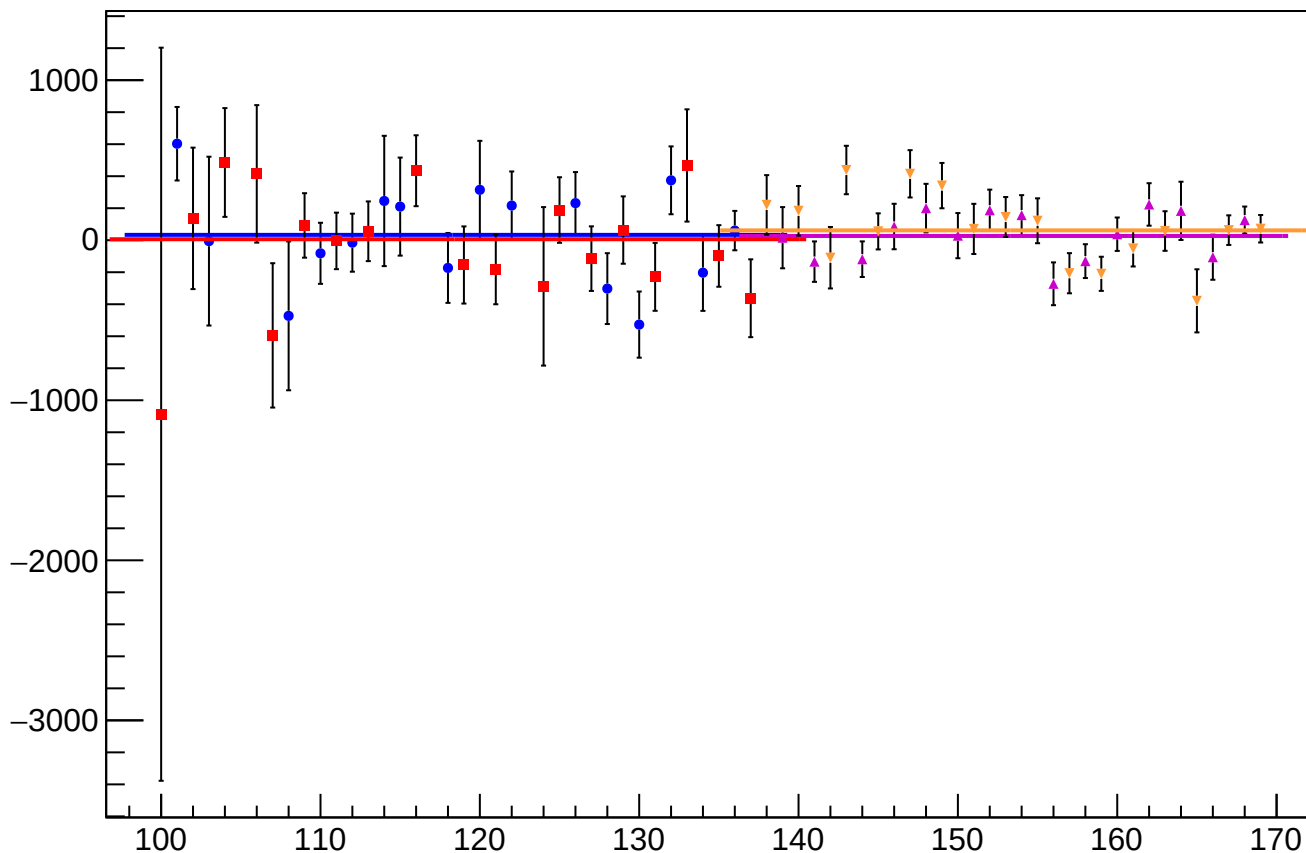
Right: 1622.952+/-0.308 χ^2/NDF : 1148789.4/34

In: 979.738+/-0.168 χ^2/NDF : 4647263.6/30

Out: 988.630+/-0.164 χ^2/NDF : 4887328.7/35

All: 984.288+/-0.117 χ^2/NDF : 9536032.2/66

dit_asym_sam3_mean vs Slug, Sign Corrected



Right In: 33.471 ± 54.908 χ^2/NDF : 25.2/15

Left Out: 61.550 ± 30.924 χ^2/NDF : 35.7/16

Right Out: 6.107 ± 56.090 χ^2/NDF : 17.3/18

Left In: 26.616 ± 32.378 χ^2/NDF : 19.9/14

Left: 44.885 ± 22.363 χ^2/NDF : 56.2/31

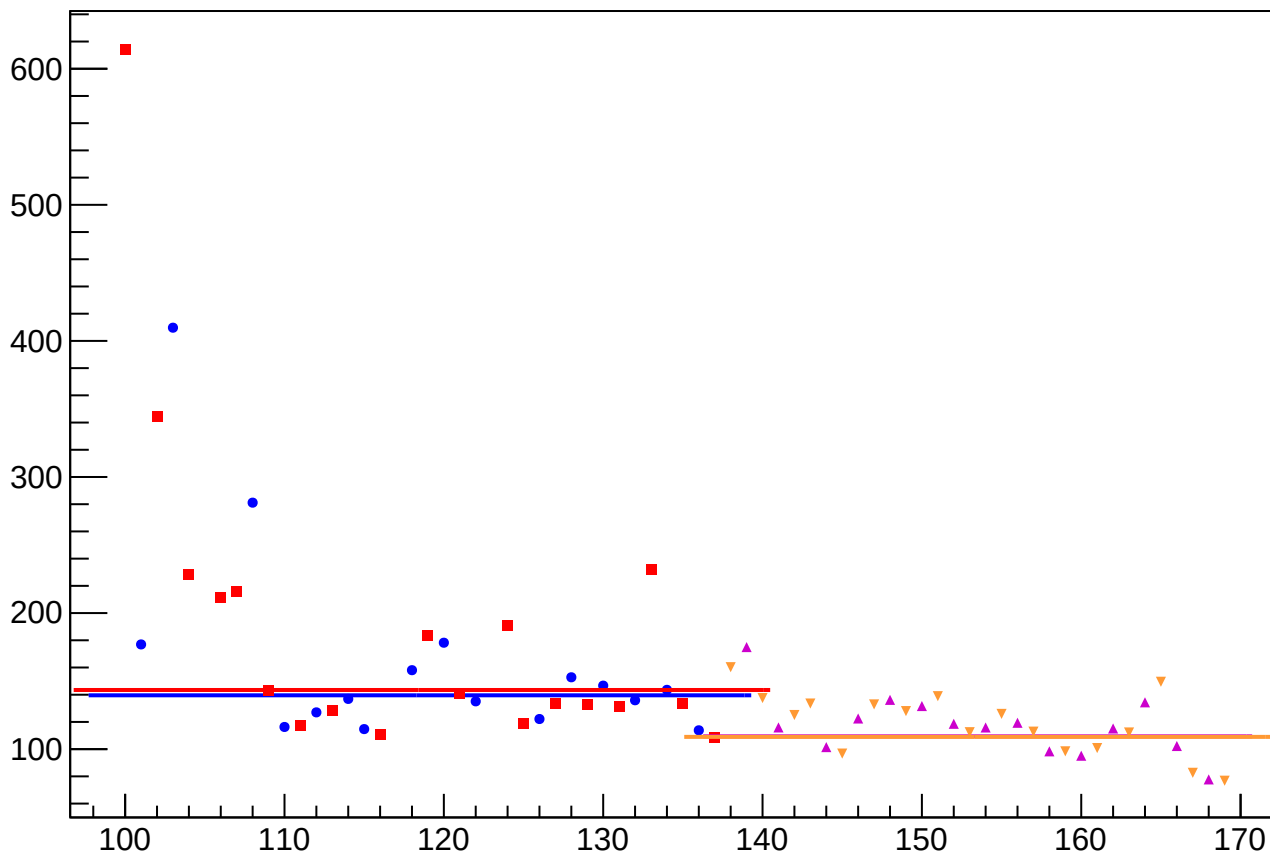
Right: 20.080 ± 39.237 χ^2/NDF : 42.6/34

In: 28.385 ± 27.890 χ^2/NDF : 45.1/30

Out: 48.626 ± 27.081 χ^2/NDF : 53.7/35

All: 38.803 ± 19.429 χ^2/NDF : 99.1/66

dit_asym_sam3_rms vs Slug, Sign Corrected



Right In: 139.566+/-0.039 χ^2/NDF : 976734.6/15

Left Out: 109.018+/-0.022 χ^2/NDF :1063148.4/16

Right Out: 143.479+/-0.040 χ^2/NDF : 1116671.9/18

Left In: 109.422+/-0.023 χ^2/NDF :794648.4/14

Left: 109.211+/-0.016 χ^2/NDF : 1857959.8/31

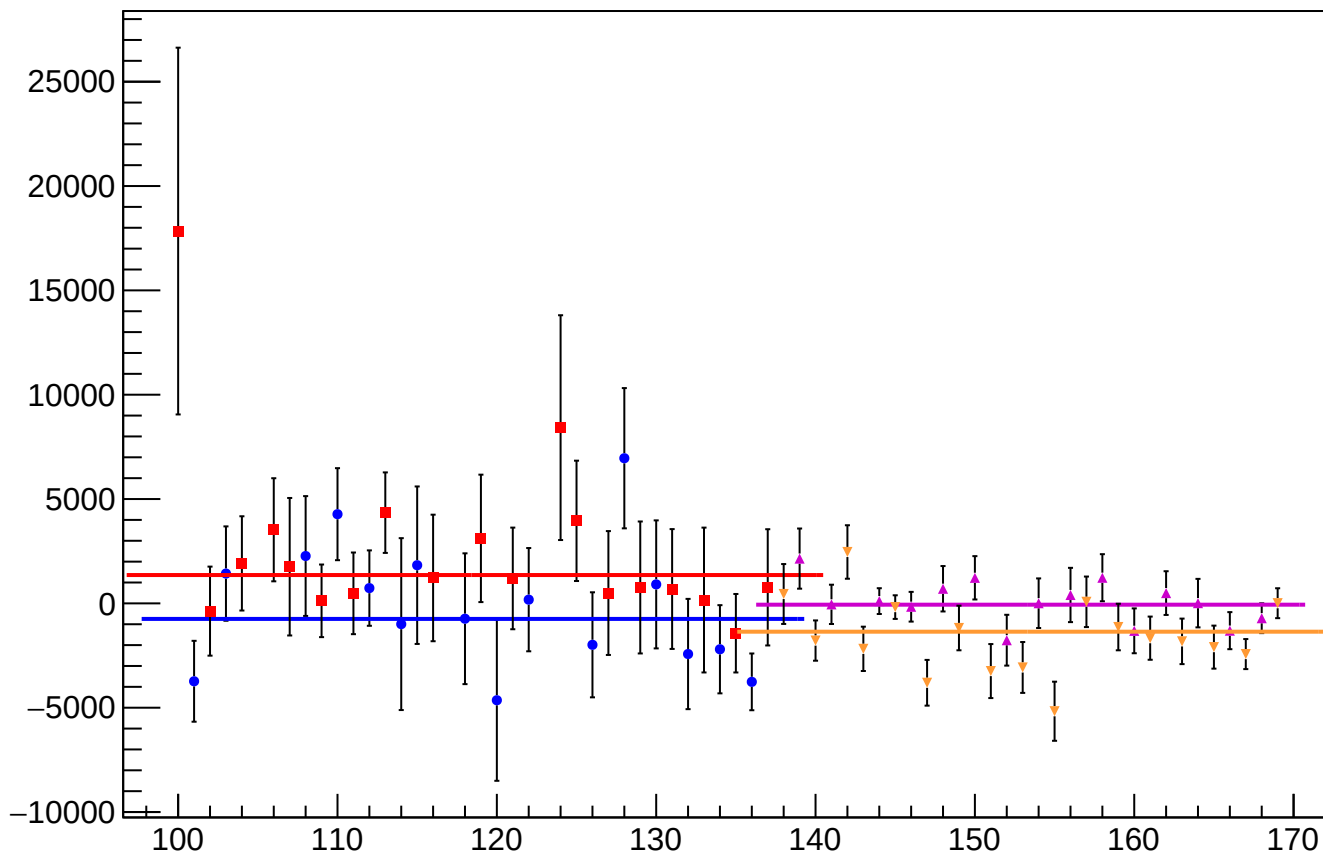
Right: 141.481+/-0.028 χ^2/NDF : 2098376.6/34

In: 117.200+/-0.020 χ^2/NDF :2218655.0/30

Out: 117.051+/-0.019 χ^2/NDF :2758793.0/35

All: 117.123+/-0.014 χ^2/NDF : 4977477.2/66

asym_sam3_dit_correction_mean vs Slug, Sign Corrected



Right In: -744.681 ± 595.810 $\chi^2/\text{NDF}: 23.5/15$

Left Out: -1357.020 ± 237.490 $\chi^2/\text{NDF}: 40.0/16$

Right Out: 1357.874 ± 585.808 $\chi^2/\text{NDF}: 13.5/18$

Left In: -63.039 ± 246.388 $\chi^2/\text{NDF}: 12.3/14$

Left: -733.818 ± 170.990 $\chi^2/\text{NDF}: 66.6/31$

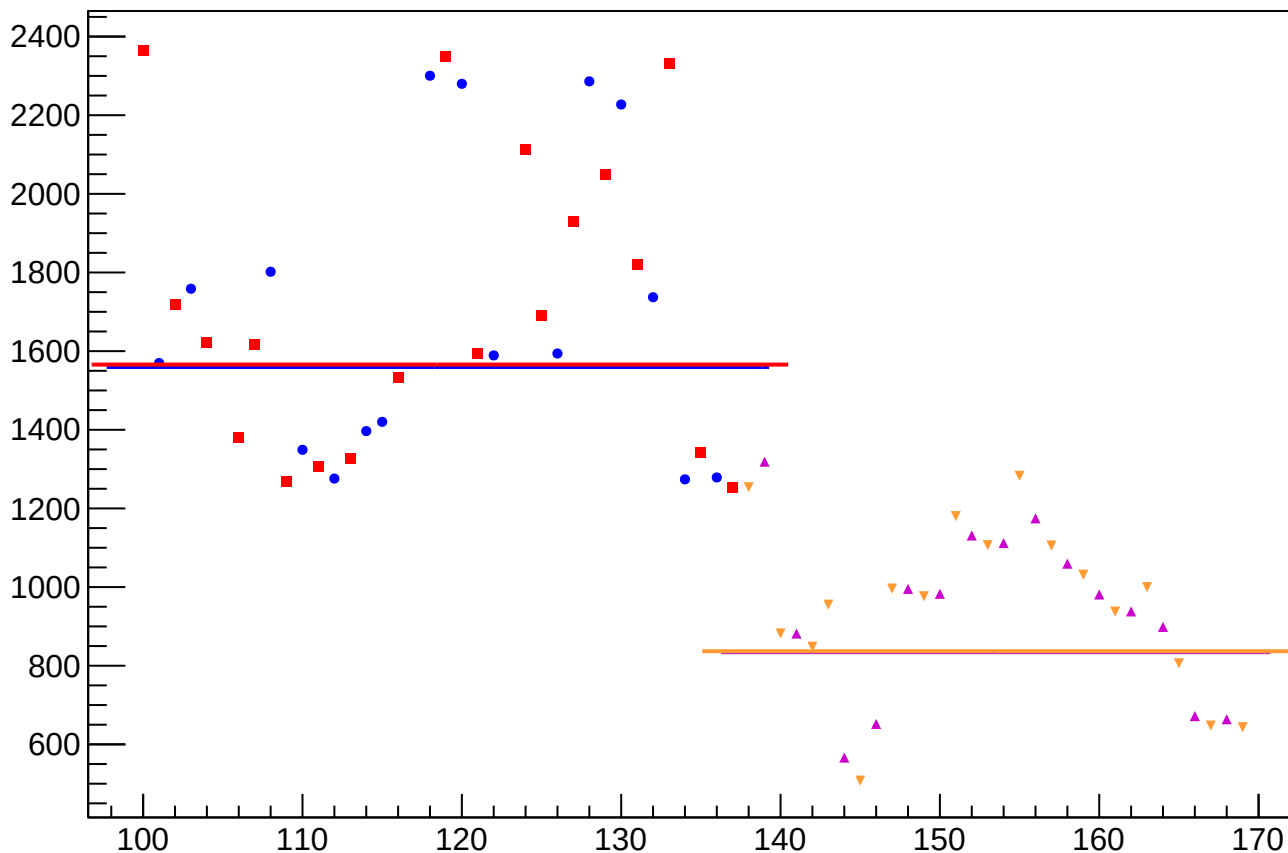
Right: 324.392 ± 417.720 $\chi^2/\text{NDF}: 43.3/34$

In: -162.584 ± 227.688 $\chi^2/\text{NDF}: 36.9/30$

Out: -973.802 ± 220.091 $\chi^2/\text{NDF}: 72.0/35$

All: -581.952 ± 158.245 $\chi^2/\text{NDF}: 115.5/66$

asym_sam3_dit_correction_rms vs Slug, Sign Corrected



Right In: 1559.735 $\pm$ 0.421 χ^2 /NDF: 604209.5/15

Left Out: 836.889 $\pm$ 0.168 χ^2 /NDF:1896197.5/16

Right Out: 1565.808 $\pm$ 0.414 χ^2 /NDF: 563847.8/18

Left In: 834.607 $\pm$ 0.174 χ^2 /NDF:1511424.3/14

Left: 835.790 $\pm$ 0.121 χ^2 /NDF: 3407710.7/31

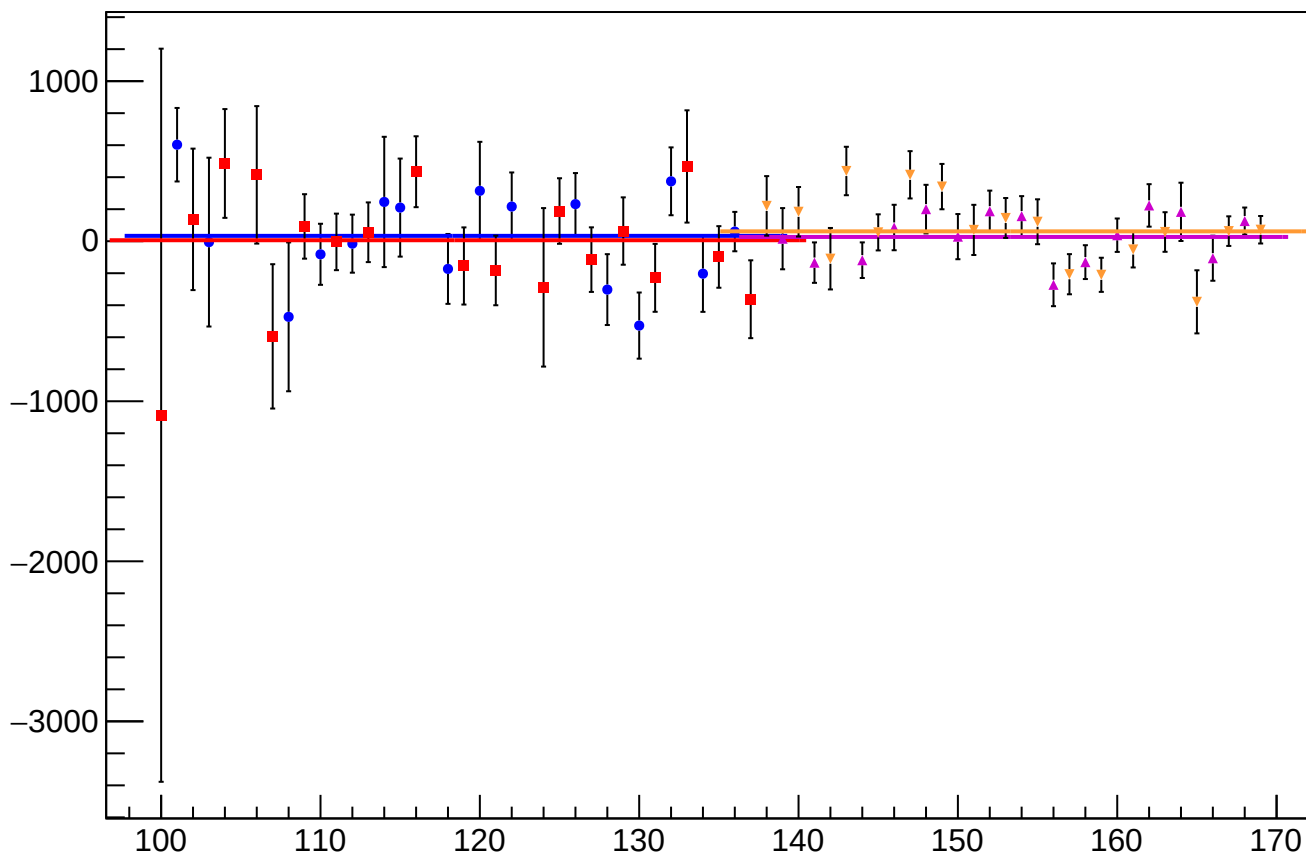
Right: 1562.823 $\pm$ 0.295 χ^2 /NDF: 1168163.0/34

In: 940.503 $\pm$ 0.161 χ^2 /NDF:4645415.9/30

Out: 939.779 $\pm$ 0.156 χ^2 /NDF:5119506.2/35

All: 940.128 $\pm$ 0.112 χ^2 /NDF: 9764932.6/66

eigen_dit_asym_sam3_mean vs Slug, Sign Corrected



Right In: 33.469+/-54.908 χ^2/NDF : 25.2/15

Left Out: 61.552+/-30.924 χ^2/NDF : 35.7/16

Right Out: 6.103+/-56.090 χ^2/NDF : 17.3/18

Left In: 26.615+/-32.378 χ^2/NDF : 19.9/14

Left: 44.885+/-22.363 χ^2/NDF : 56.2/31

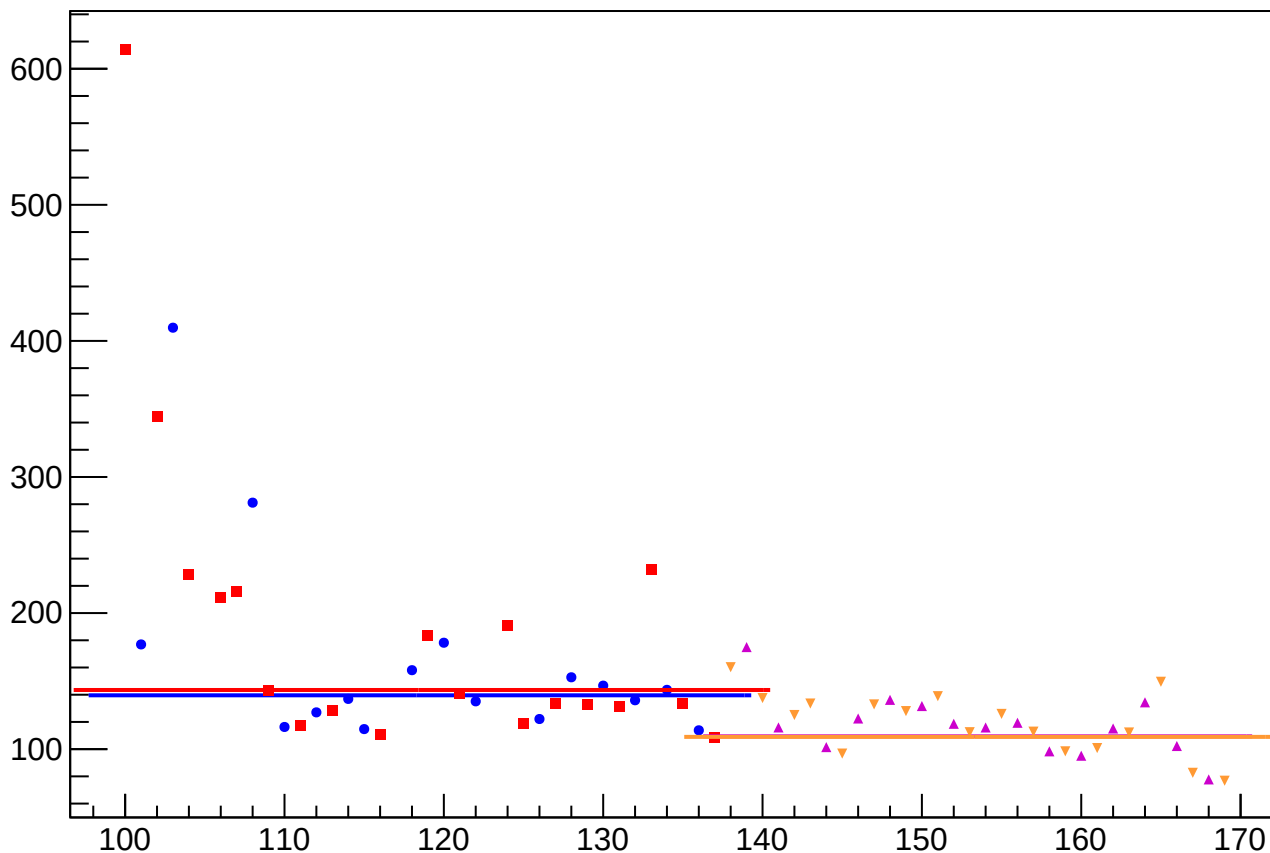
Right: 20.078+/-39.237 χ^2/NDF : 42.6/34

In: 28.383+/-27.890 χ^2/NDF : 45.1/30

Out: 48.626+/-27.081 χ^2/NDF : 53.7/35

All: 38.802+/-19.429 χ^2/NDF : 99.1/66

eigen_dit_asym_sam3_rms vs Slug, Sign Corrected



Right In: 139.567 $\pm$ 0.039 χ^2 /NDF: 976737.0/15

Left Out: 109.018 $\pm$ 0.022 χ^2 /NDF:1063171.9/16

Right Out: 143.480 $\pm$ 0.040 χ^2 /NDF: 1116678.4/18

Left In: 109.423 $\pm$ 0.023 χ^2 /NDF:794661.7/14

Left: 109.211 $\pm$ 0.016 χ^2 /NDF: 1857996.7/31

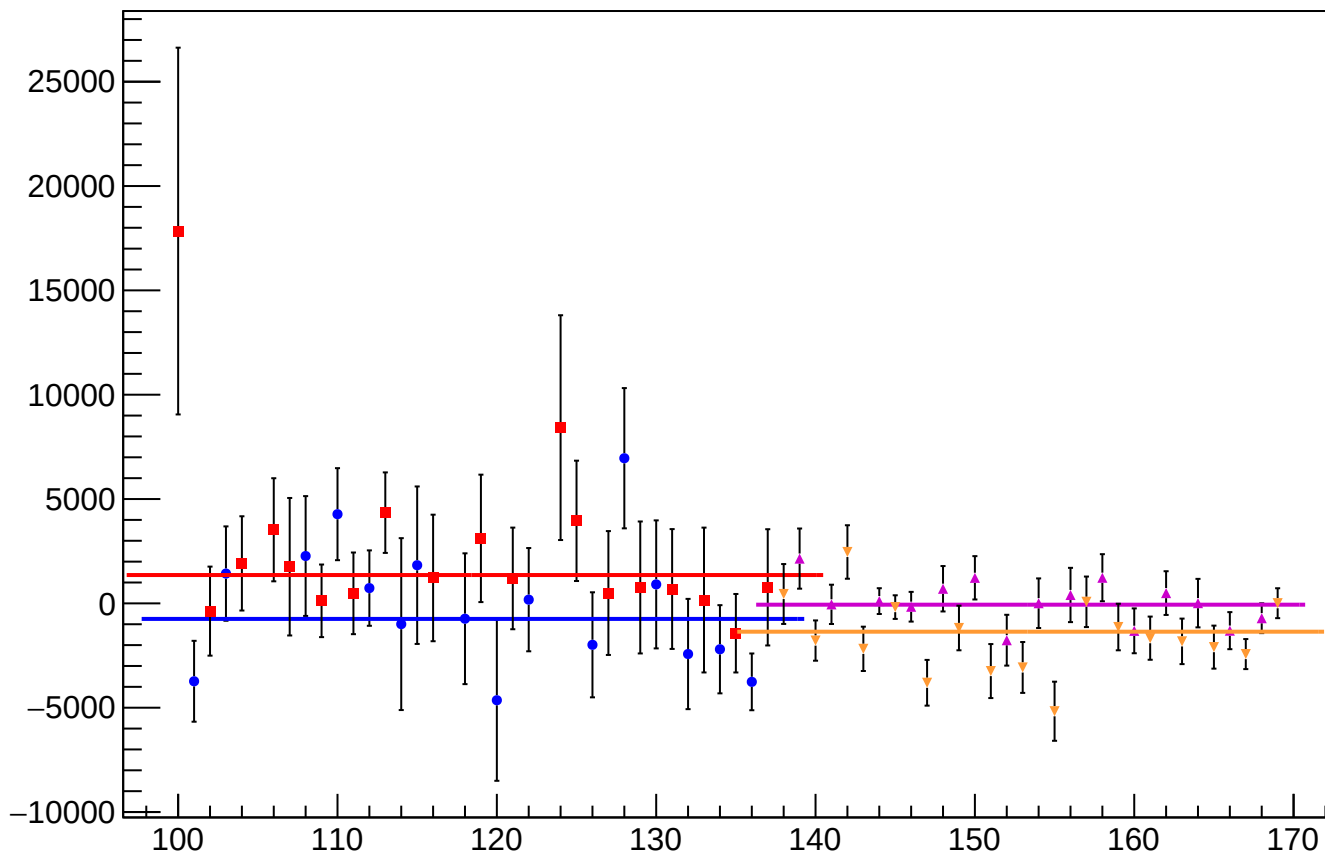
Right: 141.482 $\pm$ 0.028 χ^2 /NDF: 2098386.0/34

In: 117.200 $\pm$ 0.020 χ^2 /NDF:2218665.9/30

Out: 117.052 $\pm$ 0.019 χ^2 /NDF:2758822.5/35

All: 117.124 $\pm$ 0.014 χ^2 /NDF: 4977517.6/66

asym_sam3_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -744.678 ± 595.809 χ^2/NDF : 23.5/15

Left Out: -1357.021 ± 237.489 χ^2/NDF : 40.0/16

Right Out: 1357.874 ± 585.807 χ^2/NDF : 13.5/18

Left In: -63.040 ± 246.388 χ^2/NDF : 12.3/14

Left: -733.819 ± 170.990 χ^2/NDF : 66.6/31

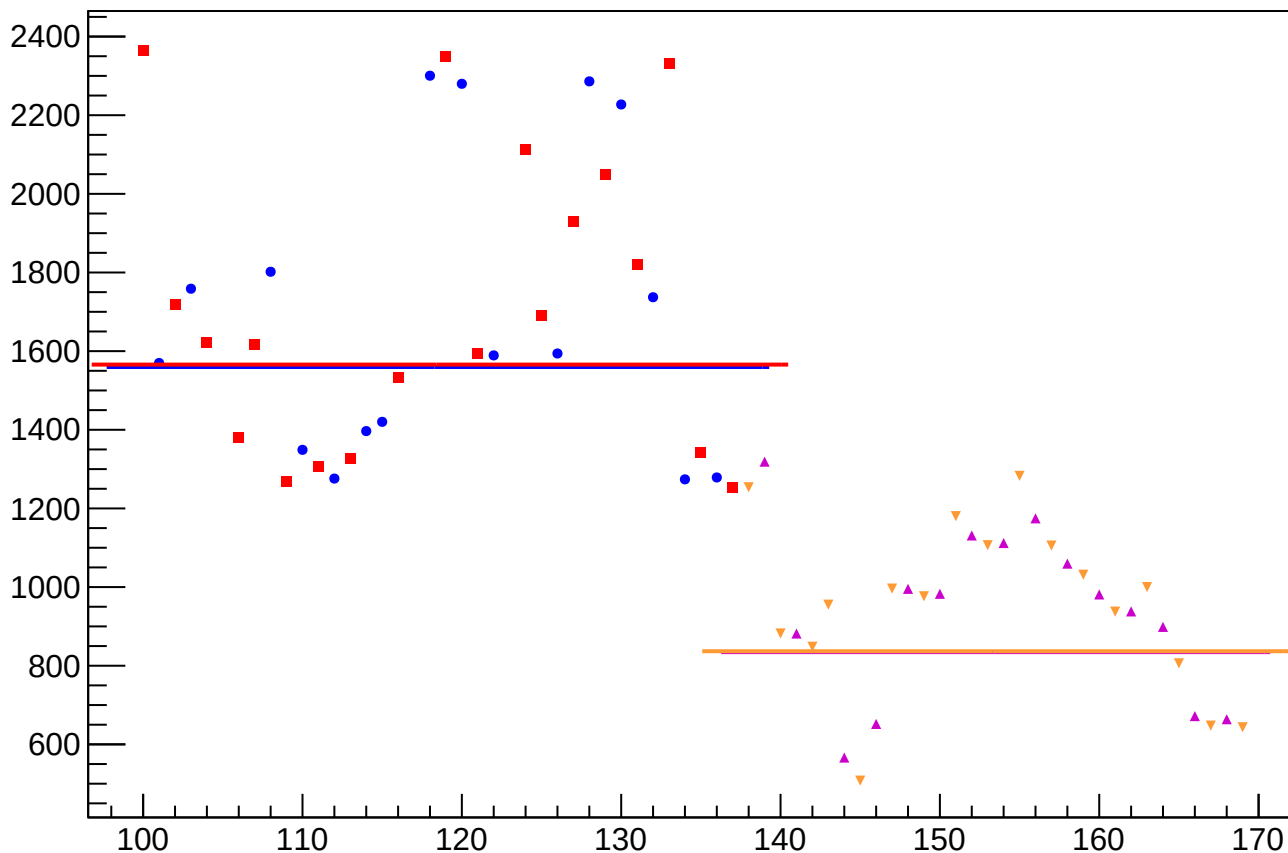
Right: 324.394 ± 417.720 χ^2/NDF : 43.3/34

In: -162.584 ± 227.687 χ^2/NDF : 36.9/30

Out: -973.802 ± 220.091 χ^2/NDF : 72.0/35

All: -581.952 ± 158.245 χ^2/NDF : 115.5/66

asym_sam3_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1559.734+/-0.421 χ^2 /NDF: 604209.8/15

Left Out: 836.888+/-0.168 χ^2 /NDF:1896192.1/16

Right Out: 1565.806+/-0.414 χ^2 /NDF: 563845.7/18

Left In: 834.606+/-0.174 χ^2 /NDF:1511420.4/14

Left: 835.789+/-0.121 χ^2 /NDF: 3407701.4/31

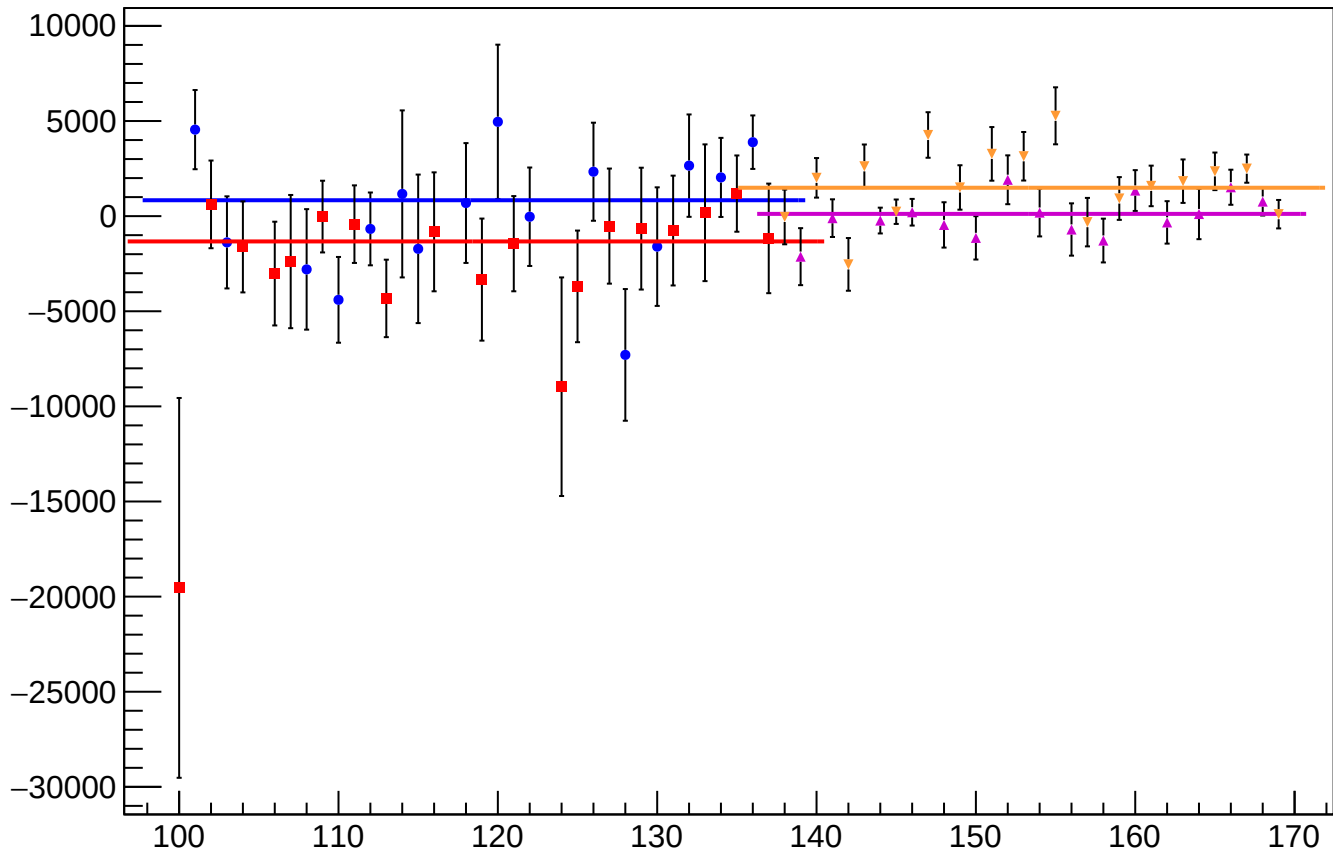
Right: 1562.821+/-0.295 χ^2 /NDF: 1168161.1/34

In: 940.502+/-0.161 χ^2 /NDF:4645412.6/30

Out: 939.778+/-0.156 χ^2 /NDF:5119496.2/35

All: 940.128+/-0.112 χ^2 /NDF: 9764919.2/66

asym_sam3_mean vs Slug, Sign Corrected



Right In: 835.496 ± 618.780 χ^2/NDF : 24.9/15

Left Out: 1492.635 ± 251.549 χ^2/NDF : 38.1/16

Right Out: -1329.538 ± 616.428 χ^2/NDF : 12.1/18

Left In: 118.433 ± 258.536 χ^2/NDF : 12.4/14

Left: 824.354 ± 180.292 χ^2/NDF : 65.0/31

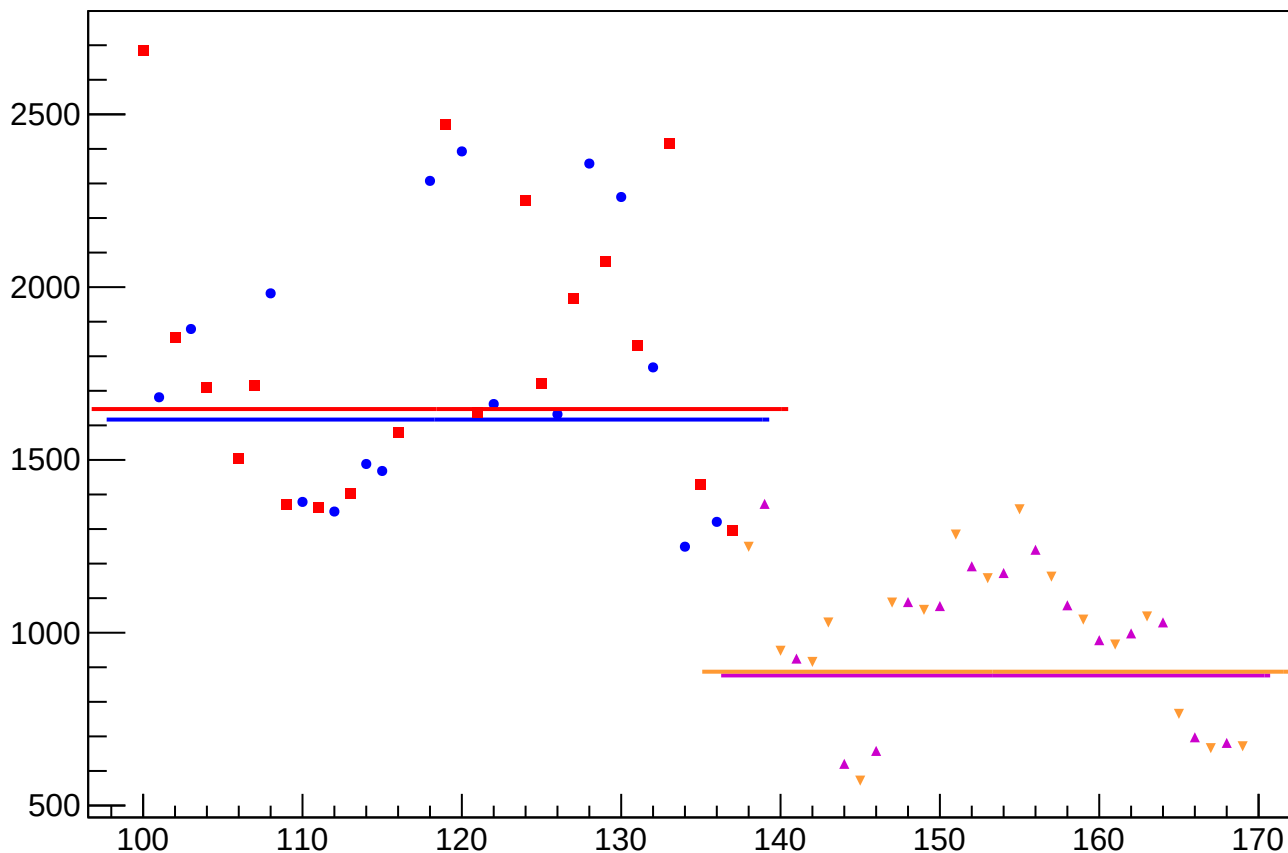
Right: -251.145 ± 436.710 χ^2/NDF : 43.2/34

In: 225.006 ± 238.552 χ^2/NDF : 38.4/30

Out: 1089.759 ± 232.904 χ^2/NDF : 68.2/35

All: 667.740 ± 166.649 χ^2/NDF : 113.4/66

asym_sam3_rms vs Slug, Sign Corrected



Right In: 1616.804+/-0.438 χ^2/NDF : 622271.0/15

Left Out: 887.241+/-0.178 χ^2/NDF : 1750099.5/16

Right Out: 1647.227+/-0.436 χ^2/NDF : 523860.9/18

Left In: 876.412+/-0.183 χ^2/NDF : 1550067.4/14

Left: 881.975+/-0.127 χ^2/NDF : 3301969.4/31

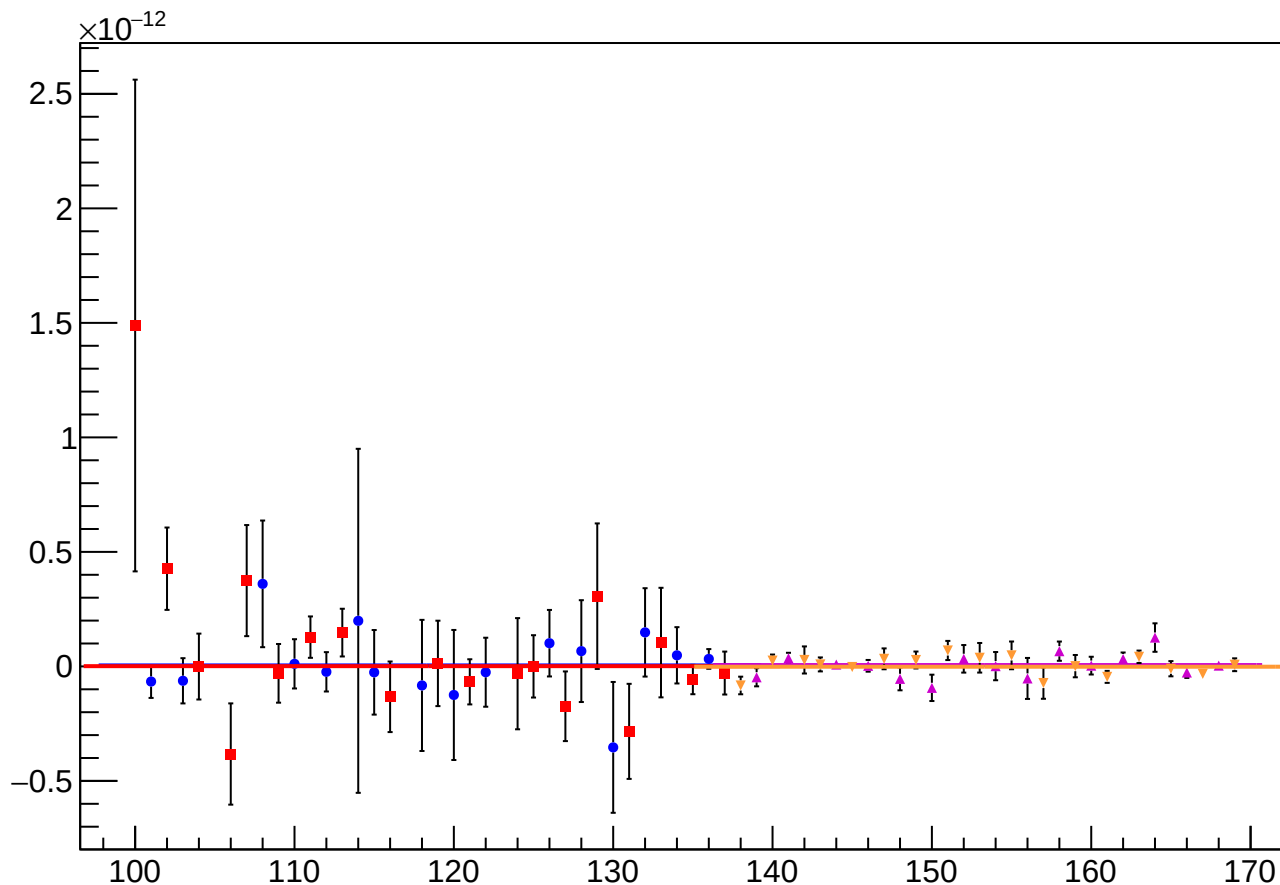
Right: 1632.074+/-0.309 χ^2/NDF : 1148558.3/34

In: 986.453+/-0.169 χ^2/NDF : 4610157.3/30

Out: 995.732+/-0.165 χ^2/NDF : 4880009.2/35

All: 991.203+/-0.118 χ^2/NDF : 9491715.9/66

asym_sam3_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 6.9/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 20.2/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 23.4/18

Left In: 0.000 ± 0.000 χ^2/NDF : 17.1/14

Left: 0.000 ± 0.000 χ^2/NDF : 37.7/31

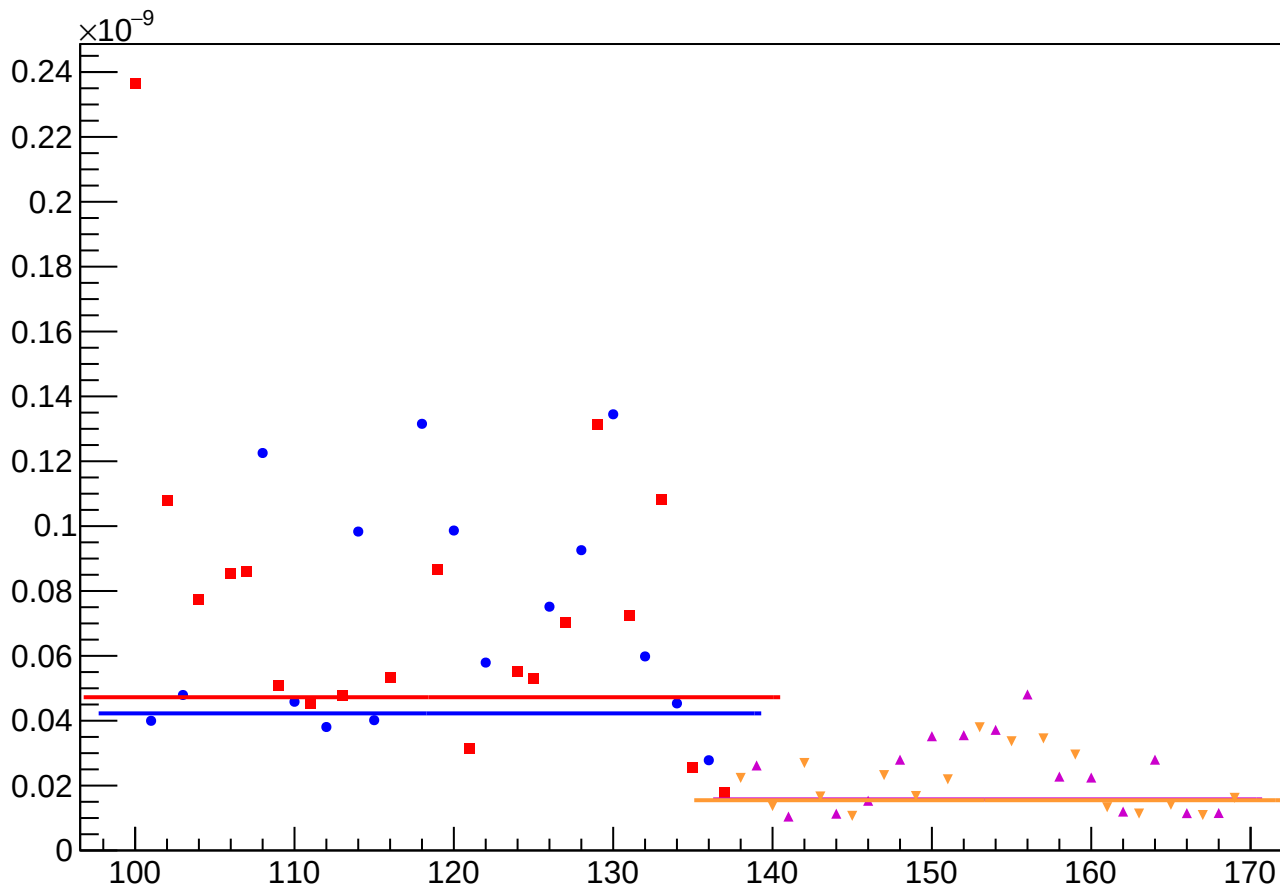
Right: 0.000 ± 0.000 χ^2/NDF : 30.3/34

In: 0.000 ± 0.000 χ^2/NDF : 23.9/30

Out: -0.000 ± 0.000 χ^2/NDF : 43.6/35

All: 0.000 ± 0.000 χ^2/NDF : 68.0/66

asym_sam3_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1147920.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1312551.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1410595.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 1791398.8/14

Left: 0.000+/-0.000 χ^2/NDF : 3105022.1/31

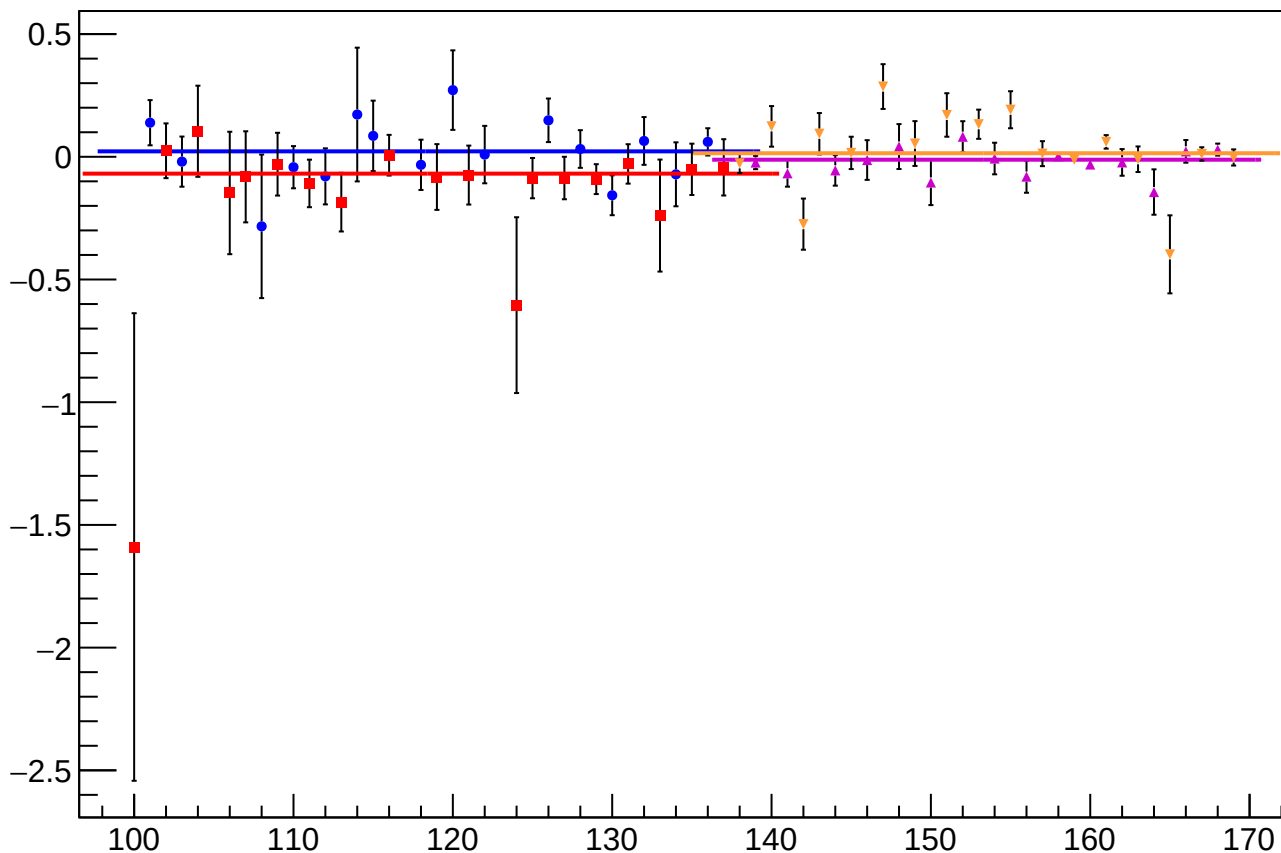
Right: 0.000+/-0.000 χ^2/NDF : 2588419.0/34

In: 0.000+/-0.000 χ^2/NDF : 4676990.6/30

Out: 0.000+/-0.000 χ^2/NDF : 4787624.9/35

All: 0.000+/-0.000 χ^2/NDF : 9469575.0/66

asym_sam3_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.025 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 0.015 ± 0.010 $\chi^2/\text{NDF}: 46.0/16$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.012 ± 0.009 $\chi^2/\text{NDF}: 14.0/14$

Left: -0.000 ± 0.006 $\chi^2/\text{NDF}: 64.1/31$

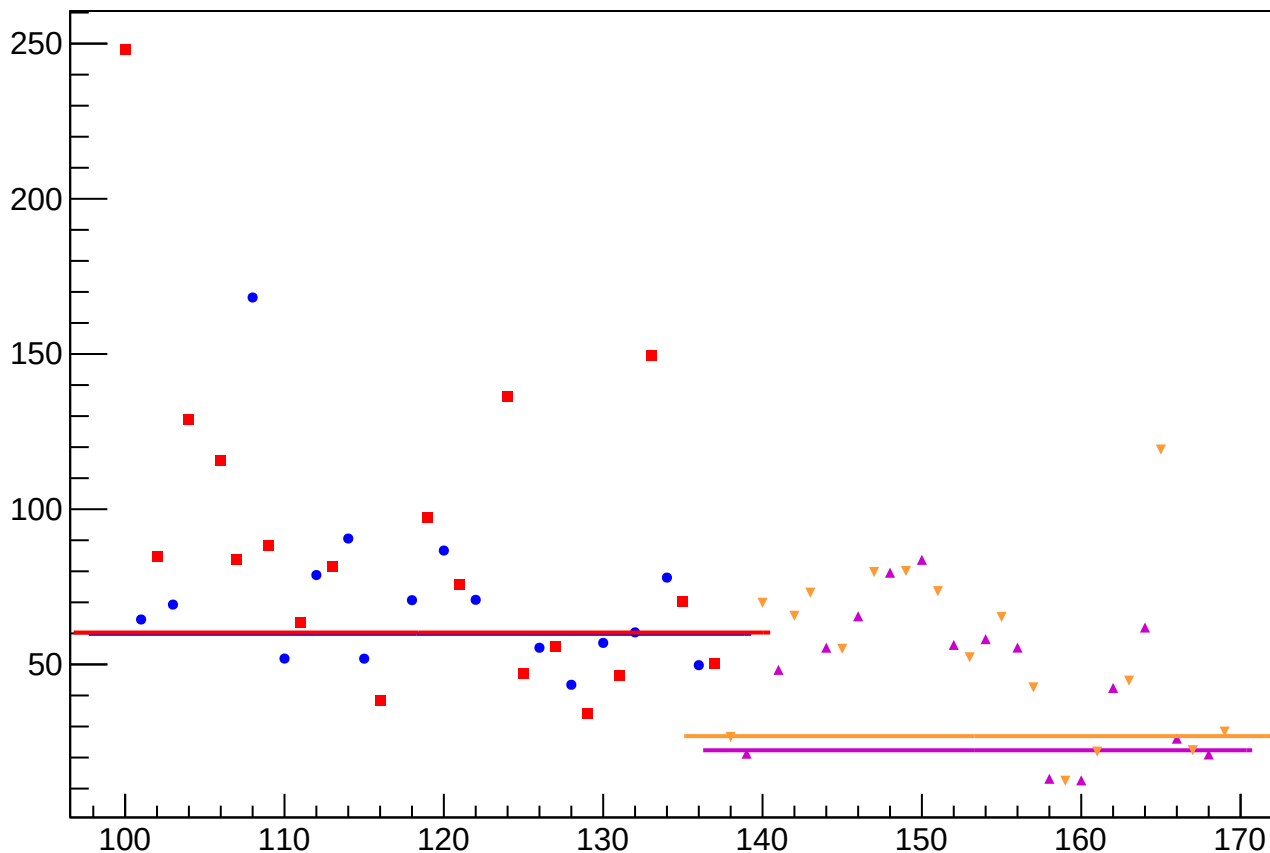
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.008 ± 0.008 $\chi^2/\text{NDF}: 31.2/30$

Out: 0.004 ± 0.009 $\chi^2/\text{NDF}: 65.0/35$

All: -0.003 ± 0.006 $\chi^2/\text{NDF}: 97.2/66$

asym_sam3_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.867 ± 0.017 χ^2/NDF : 698954.5/15

Left Out: 26.905 ± 0.007 χ^2/NDF : 7525057.9/16

Right Out: 60.278 ± 0.018 χ^2/NDF : 1977220.6/18

Left In: 22.344 ± 0.006 χ^2/NDF : 6984383.5/14

Left: 24.367 ± 0.005 χ^2/NDF : 14755292.0/31

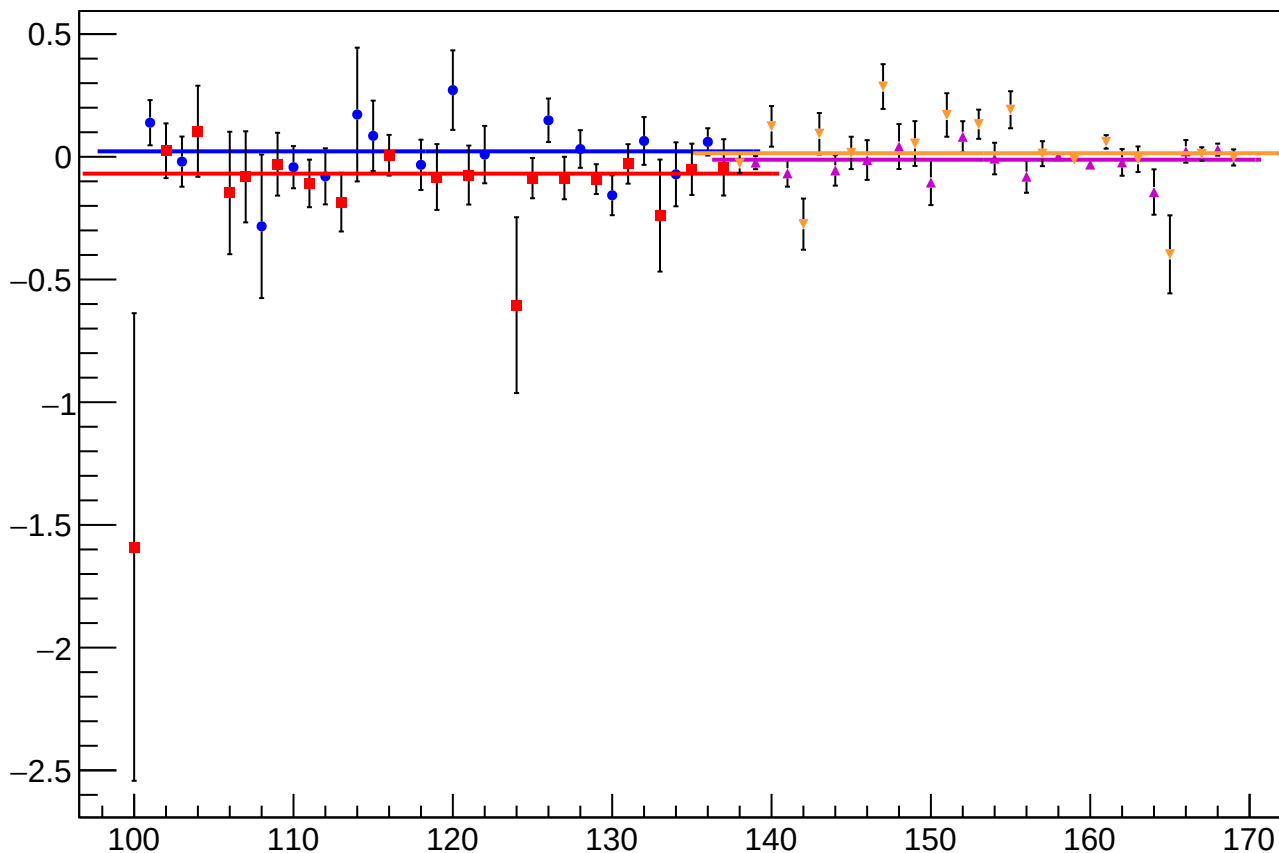
Right: 60.068 ± 0.012 χ^2/NDF : 2676445.3/34

In: 26.463 ± 0.006 χ^2/NDF : 11800970.5/30

Out: 31.191 ± 0.006 χ^2/NDF : 12540734.7/35

All: 28.585 ± 0.004 χ^2/NDF : 24642020.7/66

asym_sam3_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.025 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 0.015 ± 0.010 $\chi^2/\text{NDF}: 46.0/16$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.012 ± 0.009 $\chi^2/\text{NDF}: 14.0/14$

Left: -0.000 ± 0.006 $\chi^2/\text{NDF}: 64.1/31$

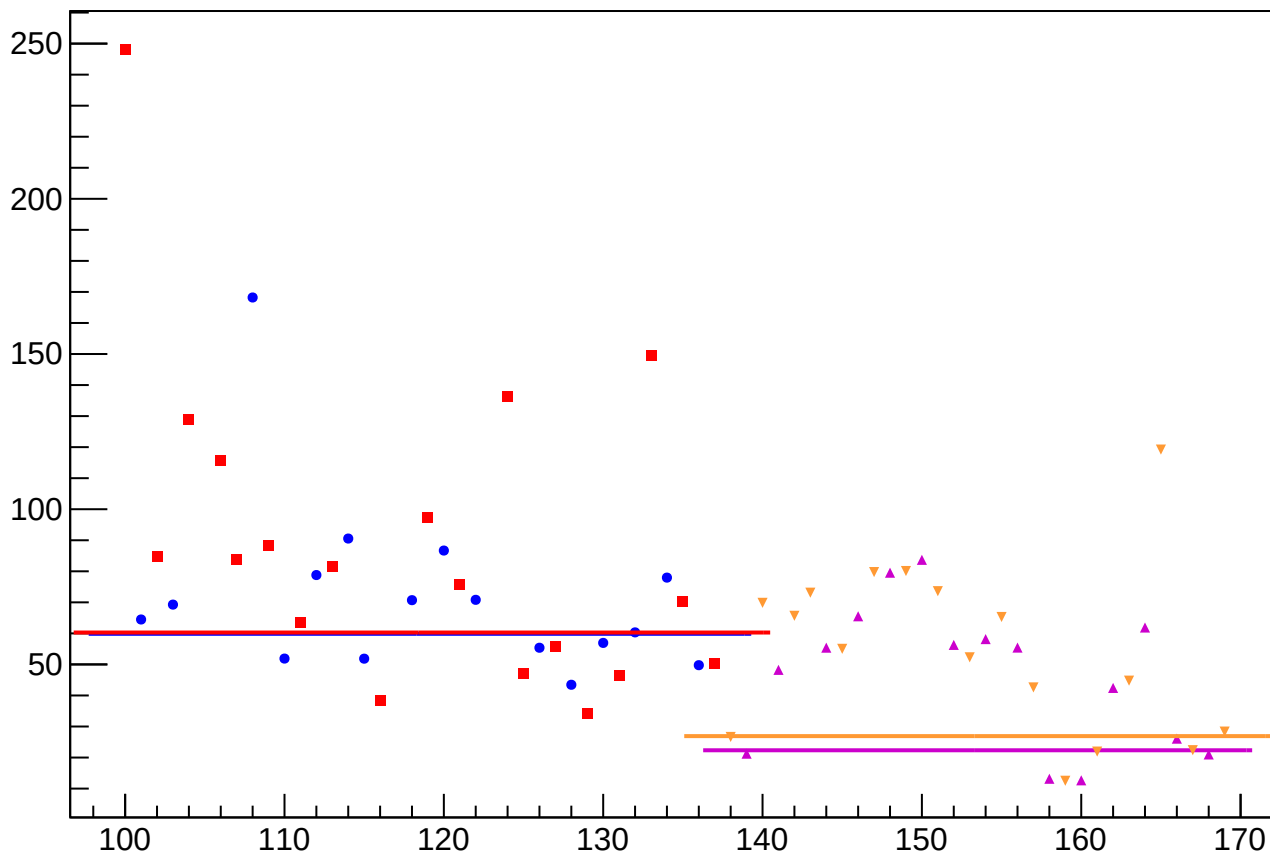
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.008 ± 0.008 $\chi^2/\text{NDF}: 31.2/30$

Out: 0.004 ± 0.009 $\chi^2/\text{NDF}: 65.0/35$

All: -0.003 ± 0.006 $\chi^2/\text{NDF}: 97.2/66$

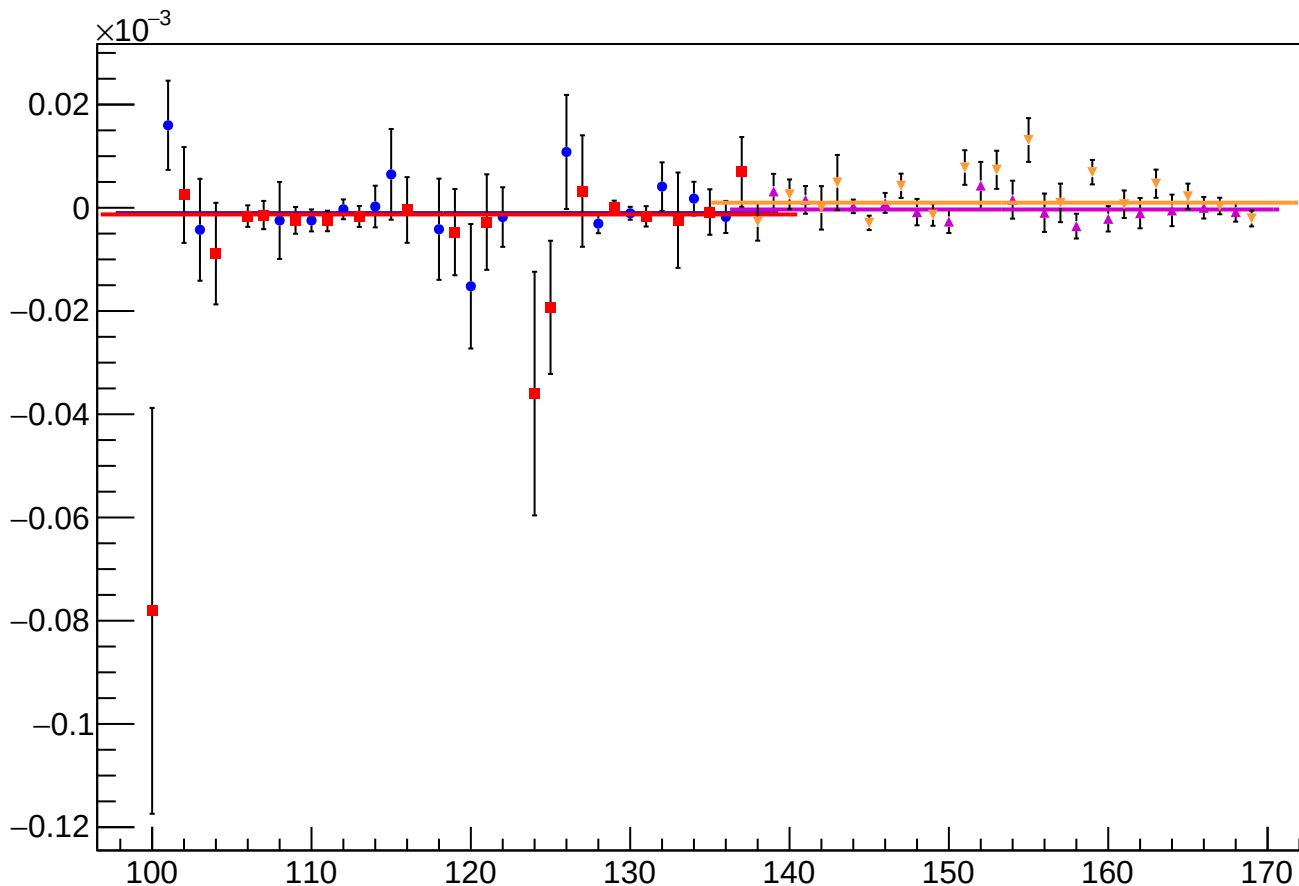
asym_sam3_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.867 ± 0.017 $\chi^2/\text{NDF}: 698954.5/15$
 Left Out: 26.905 ± 0.007 $\chi^2/\text{NDF}: 7525057.9/16$
 Right Out: 60.278 ± 0.018 $\chi^2/\text{NDF}: 1977220.6/18$
 Left In: 22.344 ± 0.006 $\chi^2/\text{NDF}: 6984383.5/14$

Left: 24.367 ± 0.005 $\chi^2/\text{NDF}: 14755292.0/31$
 Right: 60.068 ± 0.012 $\chi^2/\text{NDF}: 2676445.3/34$
 In: 26.463 ± 0.006 $\chi^2/\text{NDF}: 11800970.5/30$
 Out: 31.191 ± 0.006 $\chi^2/\text{NDF}: 12540734.7/35$
 All: 28.585 ± 0.004 $\chi^2/\text{NDF}: 24642020.7/66$

asym_sam3_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 11.3/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 40.6/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 12.5/18

Left In: -0.000 ± 0.000 χ^2/NDF : 7.2/14

Left: 0.000 ± 0.000 χ^2/NDF : 50.1/31

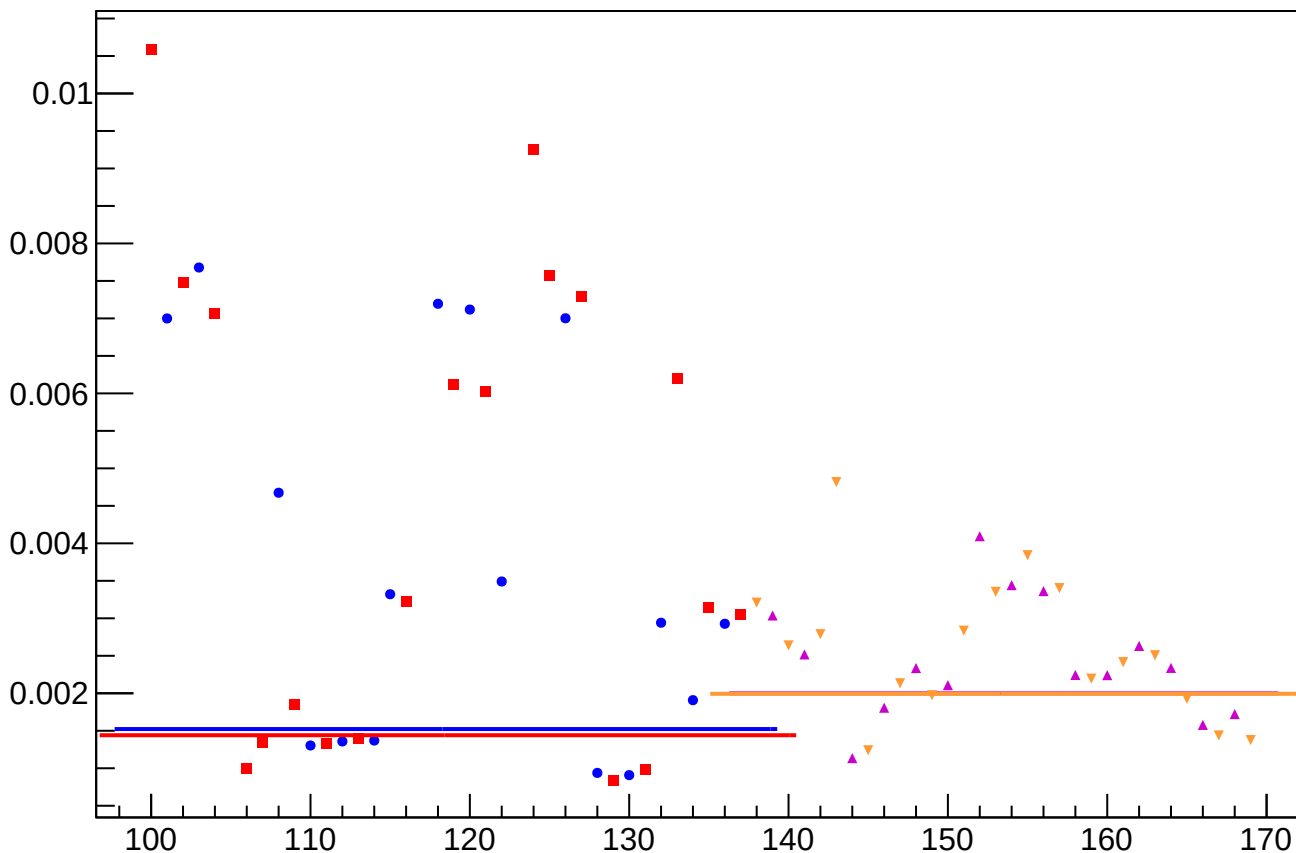
Right: -0.000 ± 0.000 χ^2/NDF : 23.8/34

In: -0.000 ± 0.000 χ^2/NDF : 19.0/30

Out: 0.000 ± 0.000 χ^2/NDF : 59.2/35

All: -0.000 ± 0.000 χ^2/NDF : 79.3/66

asym_sam3_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5182869.7/15

Left Out: 0.002+/-0.000 χ^2/NDF : 3301062.3/16

Right Out: 0.001+/-0.000 χ^2/NDF : 5789411.1/18

Left In: 0.002+/-0.000 χ^2/NDF : 2475424.8/14

Left: 0.002+/-0.000 χ^2/NDF : 5776590.7/31

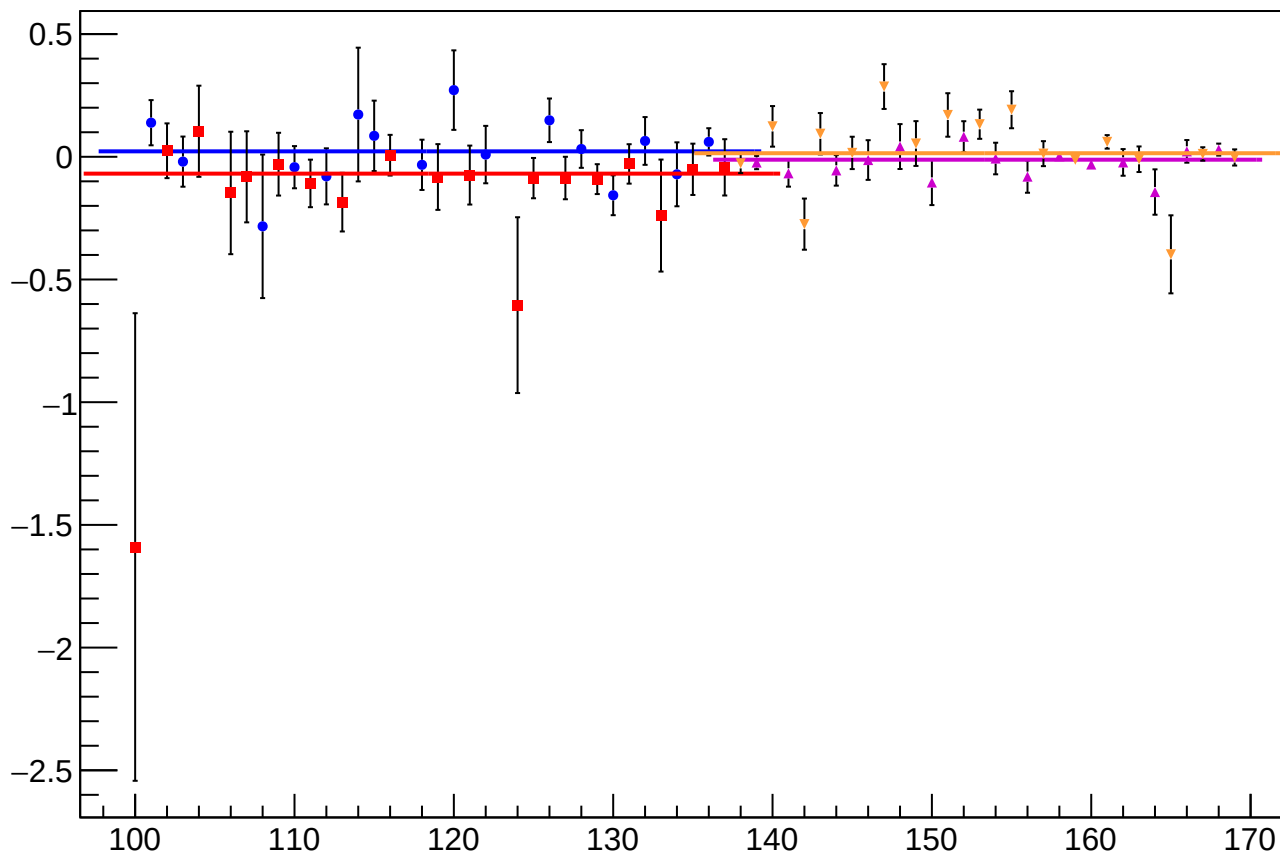
Right: 0.001+/-0.000 χ^2/NDF : 10985380.1/34

In: 0.002+/-0.000 χ^2/NDF : 8154466.3/30

Out: 0.002+/-0.000 χ^2/NDF : 9824496.6/35

All: 0.002+/-0.000 χ^2/NDF : 17987286.9/66

asym_sam3_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.025 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 0.015 ± 0.010 $\chi^2/\text{NDF}: 46.0/16$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.012 ± 0.009 $\chi^2/\text{NDF}: 14.0/14$

Left: -0.000 ± 0.006 $\chi^2/\text{NDF}: 64.1/31$

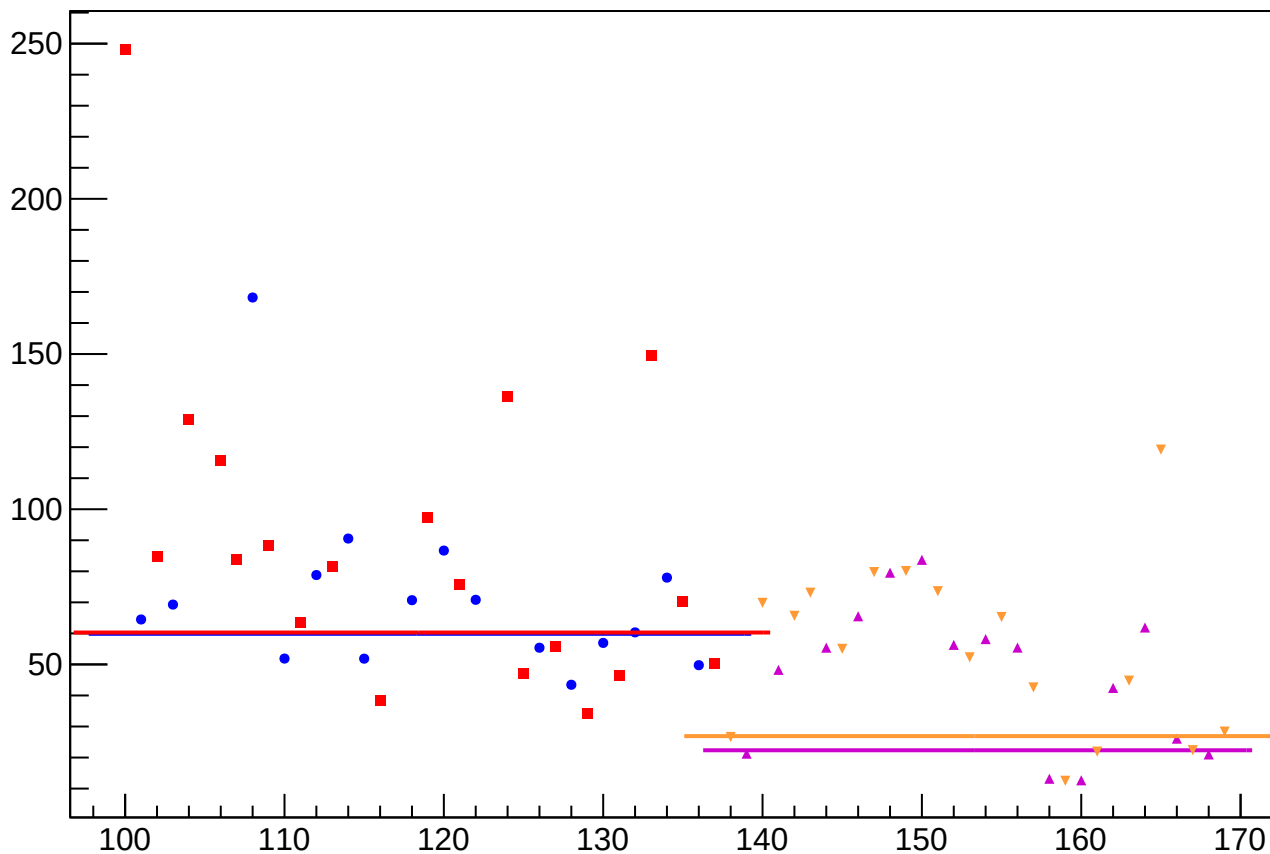
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.008 ± 0.008 $\chi^2/\text{NDF}: 31.2/30$

Out: 0.004 ± 0.009 $\chi^2/\text{NDF}: 65.0/35$

All: -0.003 ± 0.006 $\chi^2/\text{NDF}: 97.2/66$

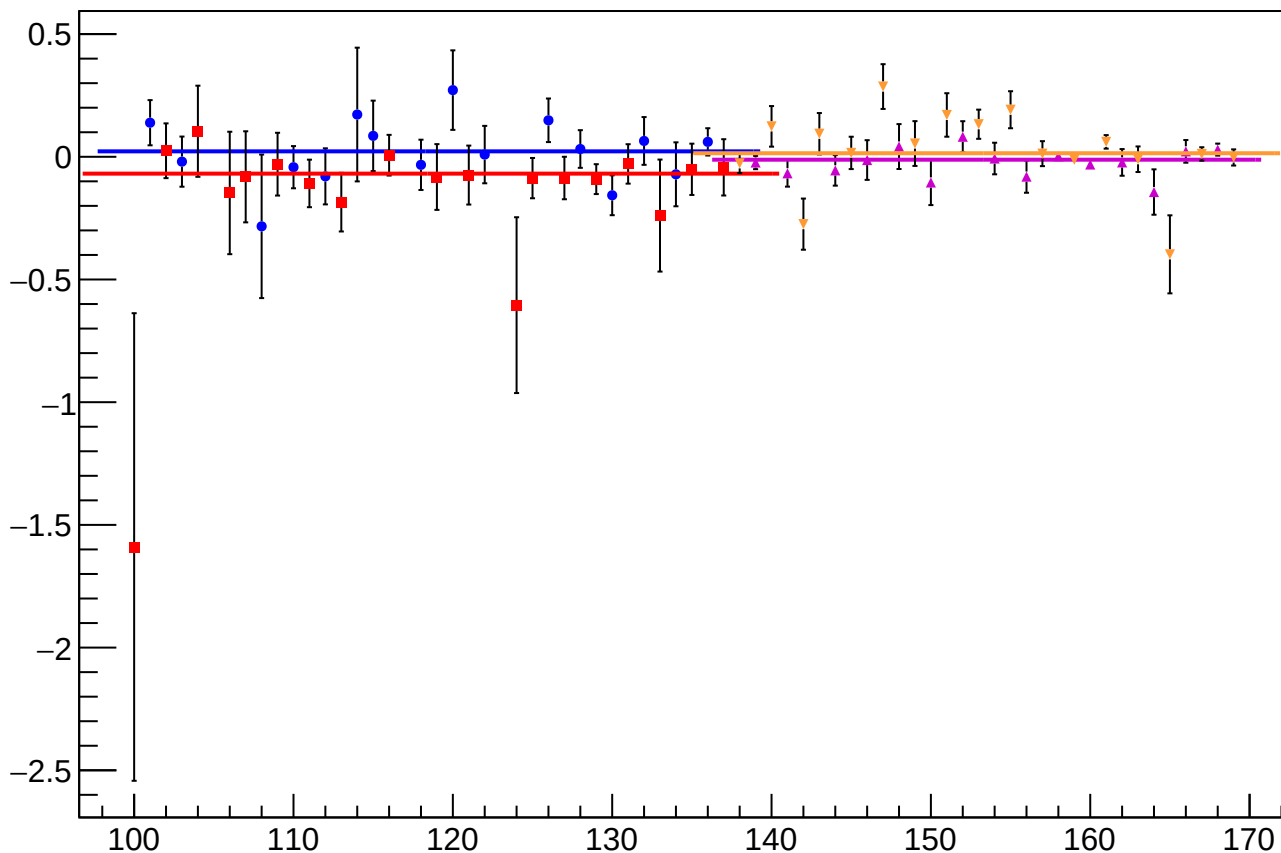
asym_sam3_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.868 ± 0.017 χ^2/NDF : 699008.9/15
 Left Out: 26.903 ± 0.007 χ^2/NDF : 7526011.3/16
 Right Out: 60.278 ± 0.018 χ^2/NDF : 1977294.2/18
 Left In: 22.344 ± 0.006 χ^2/NDF : 6984749.7/14

Left: 24.366 ± 0.005 χ^2/NDF : 14756488.0/31
 Right: 60.068 ± 0.012 χ^2/NDF : 2676572.8/34
 In: 26.462 ± 0.006 χ^2/NDF : 11801558.4/30
 Out: 31.189 ± 0.006 χ^2/NDF : 12542119.0/35
 All: 28.584 ± 0.004 χ^2/NDF : 24643847.7/66

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.022 ± 0.025 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 0.015 ± 0.010 $\chi^2/\text{NDF}: 46.0/16$

Right Out: -0.069 ± 0.025 $\chi^2/\text{NDF}: 9.6/18$

Left In: -0.012 ± 0.009 $\chi^2/\text{NDF}: 14.0/14$

Left: -0.000 ± 0.006 $\chi^2/\text{NDF}: 64.1/31$

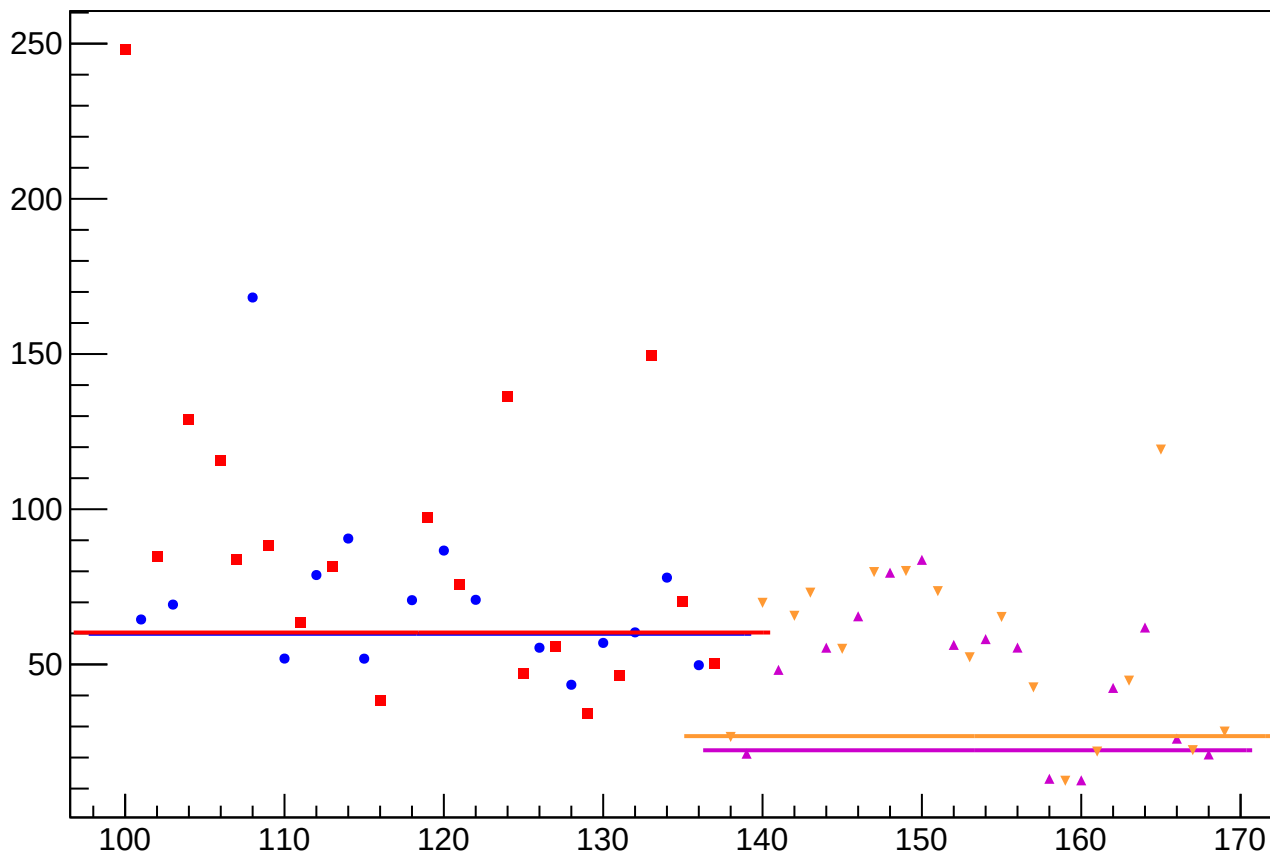
Right: -0.022 ± 0.018 $\chi^2/\text{NDF}: 31.7/34$

In: -0.008 ± 0.008 $\chi^2/\text{NDF}: 31.2/30$

Out: 0.004 ± 0.009 $\chi^2/\text{NDF}: 65.0/35$

All: -0.003 ± 0.006 $\chi^2/\text{NDF}: 97.2/66$

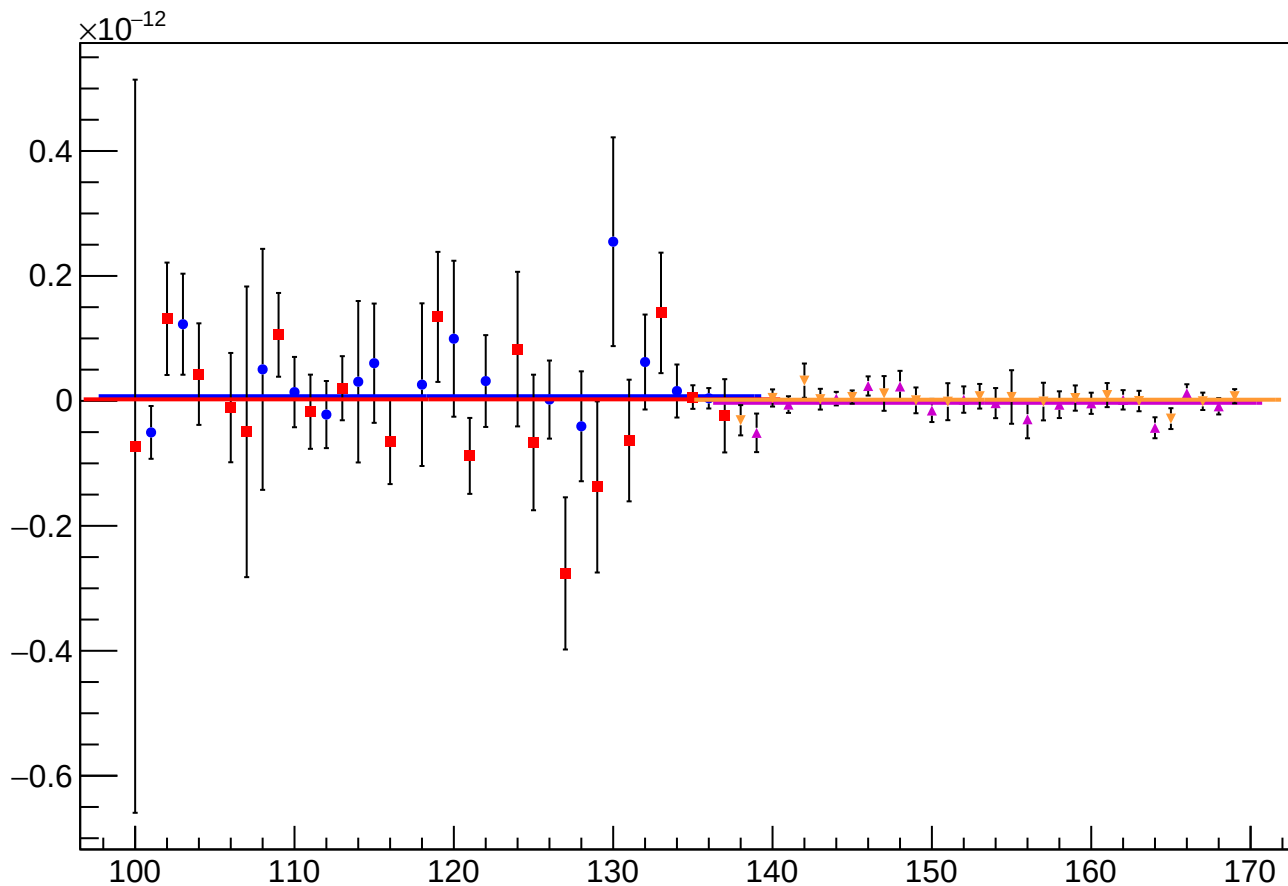
asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 59.868 ± 0.017 $\chi^2/\text{NDF}: 699008.9/15$
 Left Out: 26.903 ± 0.007 $\chi^2/\text{NDF}: 7526011.3/16$
 Right Out: 60.278 ± 0.018 $\chi^2/\text{NDF}: 1977294.2/18$
 Left In: 22.344 ± 0.006 $\chi^2/\text{NDF}: 6984749.7/14$

Left: 24.366 ± 0.005 $\chi^2/\text{NDF}: 14756488.0/31$
 Right: 60.068 ± 0.012 $\chi^2/\text{NDF}: 2676572.8/34$
 In: 26.462 ± 0.006 $\chi^2/\text{NDF}: 11801558.4/30$
 Out: 31.189 ± 0.006 $\chi^2/\text{NDF}: 12542119.0/35$
 All: 28.584 ± 0.004 $\chi^2/\text{NDF}: 24643847.7/66$

asym_sam3_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 8.4/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 7.3/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 19.7/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.3/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 23.3/31

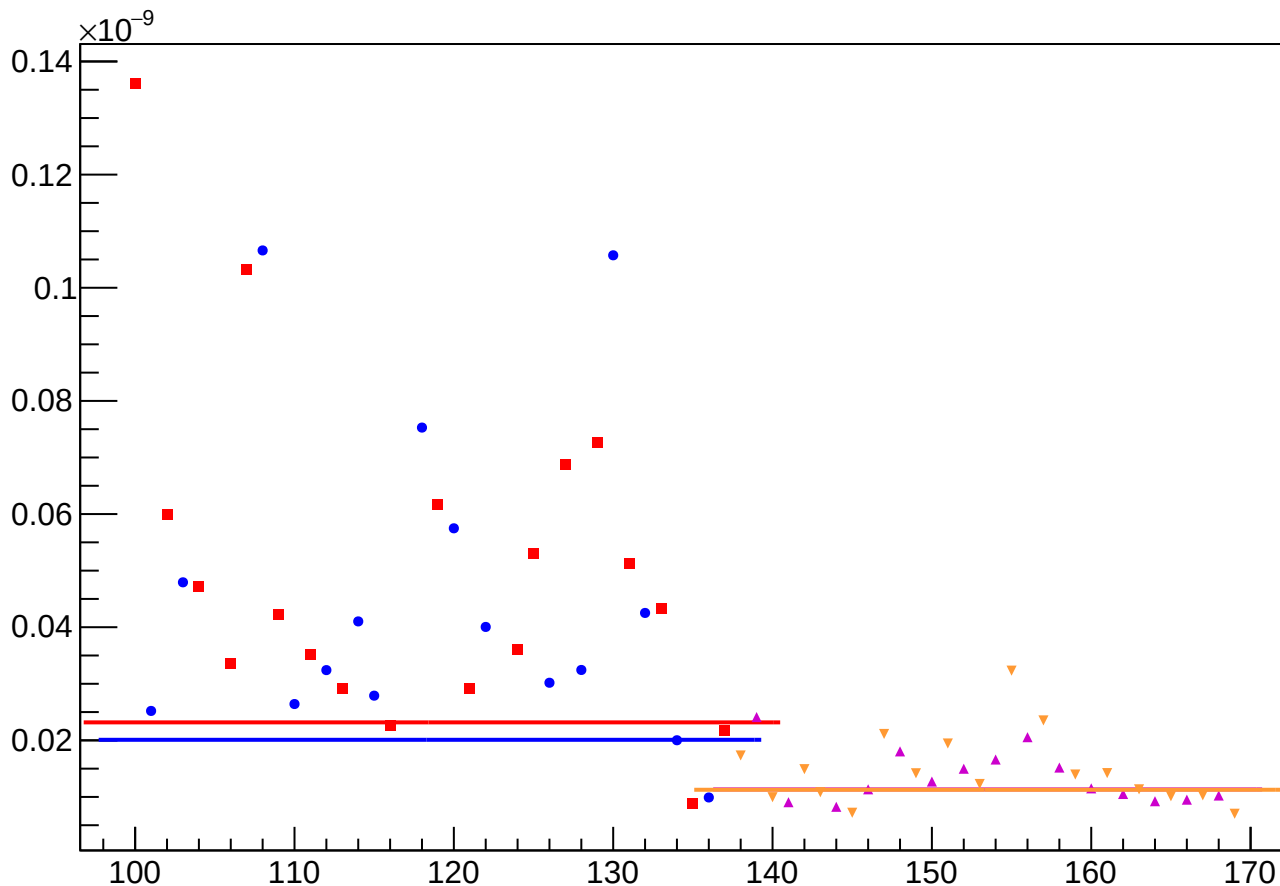
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 28.1/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF: 24.4/30

Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 26.9/35

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 51.7/66

asym_sam3_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3121422.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2115748.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3530677.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 1203361.1/14

Left: 0.000+/-0.000 χ^2/NDF : 3319330.1/31

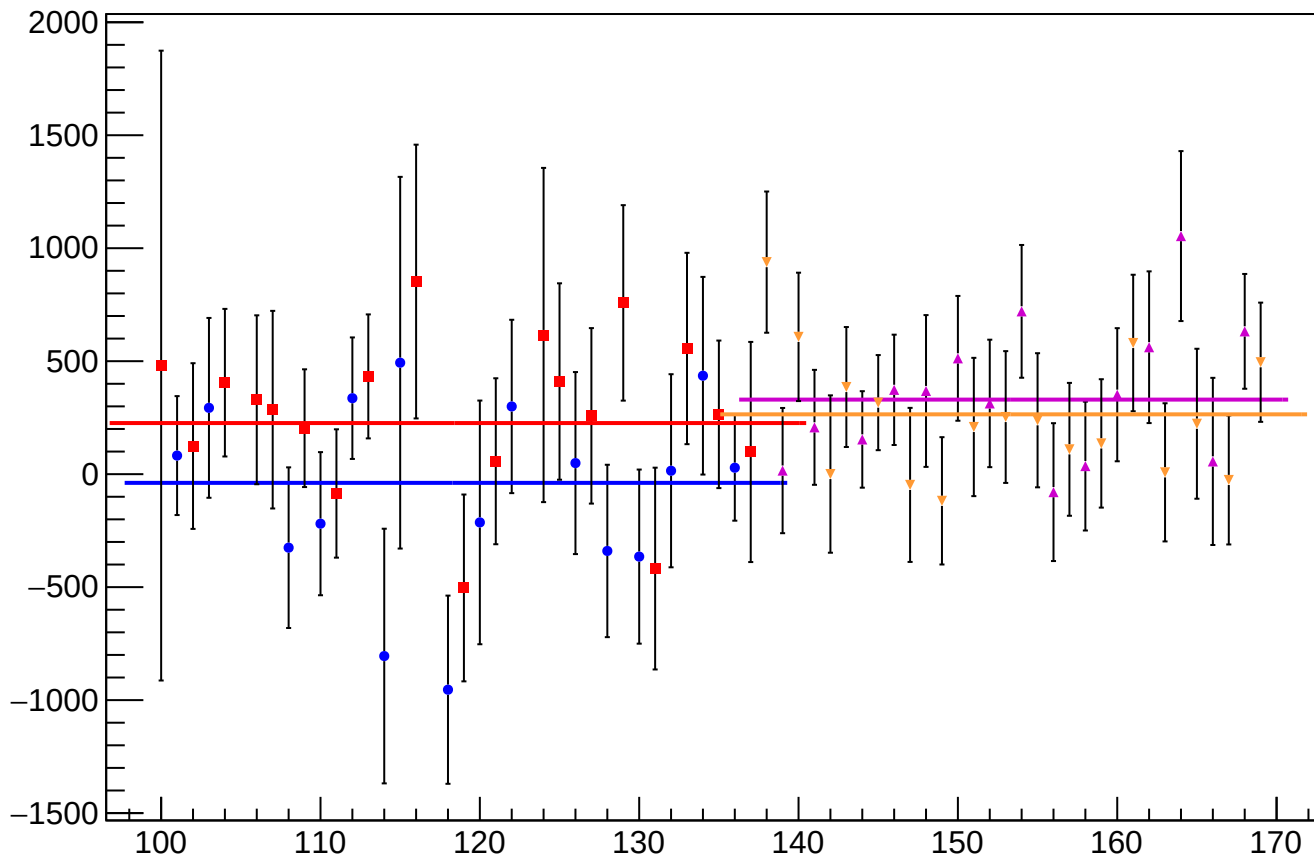
Right: 0.000+/-0.000 χ^2/NDF : 6709527.6/34

In: 0.000+/-0.000 χ^2/NDF : 5248829.8/30

Out: 0.000+/-0.000 χ^2/NDF : 7058039.9/35

All: 0.000+/-0.000 χ^2/NDF : 12306883.5/66

reg_asym_sam4_mean vs Slug, Sign Corrected



Right In: -38.498 ± 90.619 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 264.769 ± 70.018 $\chi^2/\text{NDF}: 13.8/16$

Right Out: 226.168 ± 87.908 $\chi^2/\text{NDF}: 11.4/18$

Left In: 329.968 ± 73.199 $\chi^2/\text{NDF}: 13.5/14$

Left: 295.921 ± 50.597 $\chi^2/\text{NDF}: 27.6/31$

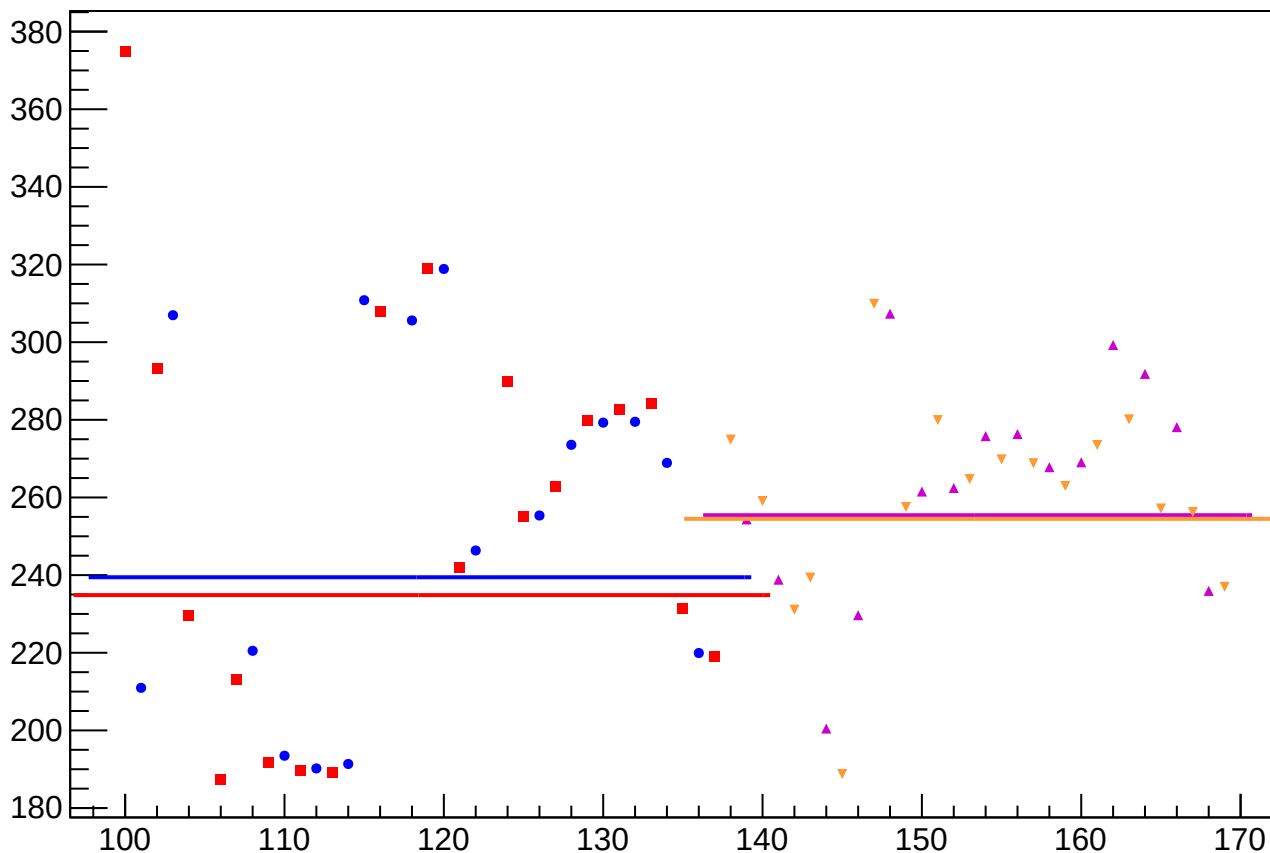
Right: 97.852 ± 63.097 $\chi^2/\text{NDF}: 30.3/34$

In: 184.478 ± 56.942 $\chi^2/\text{NDF}: 37.9/30$

Out: 249.786 ± 54.769 $\chi^2/\text{NDF}: 25.3/35$

All: 218.402 ± 39.473 $\chi^2/\text{NDF}: 63.9/66$

reg_asym_sam4_rms vs Slug, Sign Corrected



Right In: 239.449 $\pm$ 0.064 χ^2 /NDF: 400955.7/15

Left Out: 254.500 $\pm$ 0.050 χ^2 /NDF:331849.1/16

Right Out: 234.855 $\pm$ 0.062 χ^2 /NDF: 481715.3/18

Left In: 255.436 $\pm$ 0.052 χ^2 /NDF:312434.3/14

Left: 254.947 $\pm$ 0.036 χ^2 /NDF: 644454.5/31

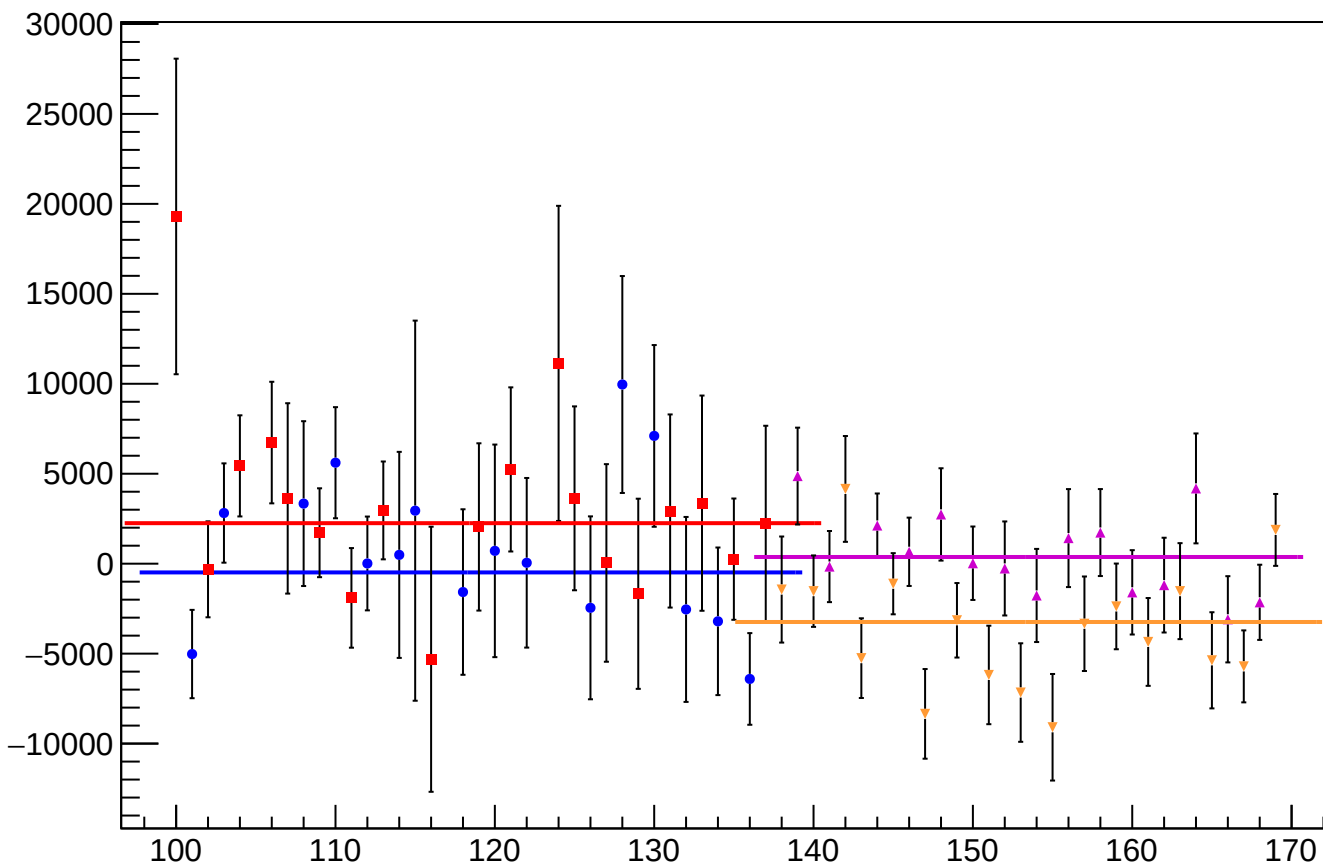
Right: 237.082 $\pm$ 0.045 χ^2 /NDF: 885319.7/34

In: 249.124 $\pm$ 0.040 χ^2 /NDF:751061.5/30

Out: 246.874 $\pm$ 0.039 χ^2 /NDF:874675.2/35

All: 247.955 $\pm$ 0.028 χ^2 /NDF: 1627358.1/66

asym_sam4_reg_correction_mean vs Slug, Sign Corrected



Right In: -485.932+/-947.459 χ^2/NDF : 21.1/15

Left Out: -3240.870+/-569.871 χ^2/NDF : 30.6/16

Right Out: 2251.898+/-894.171 χ^2/NDF : 13.9/18

Left In: 372.028+/-595.812 χ^2/NDF : 12.1/14

Left: -1514.781+/-411.825 χ^2/NDF : 61.9/31

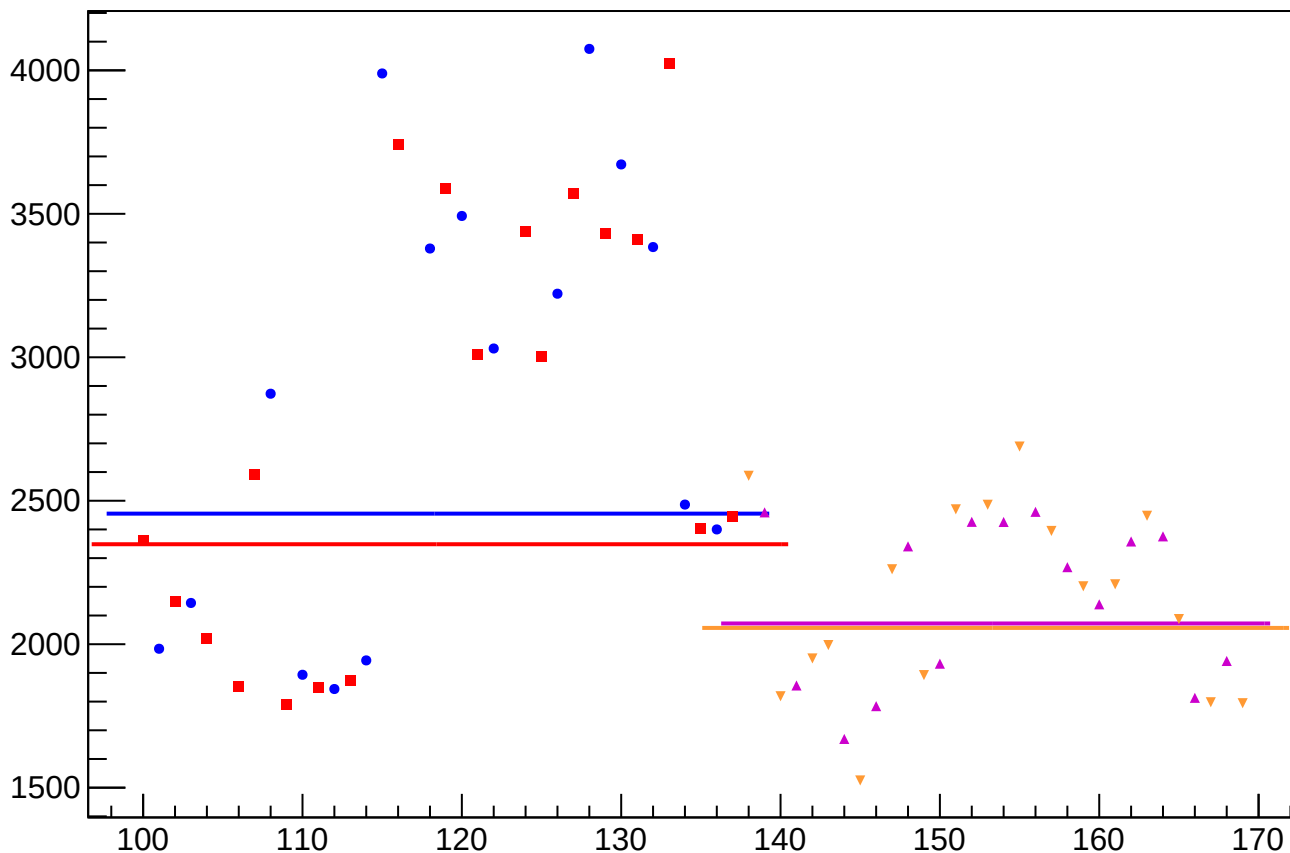
Right: 962.136+/-650.297 χ^2/NDF : 39.4/34

In: 128.893+/-504.372 χ^2/NDF : 33.8/30

Out: -1654.283+/-480.570 χ^2/NDF : 71.3/35

All: -805.762+/-347.925 χ^2/NDF : 111.7/66

asym_sam4_reg_correction_rms vs Slug, Sign Corrected



Right In: 2455.103+/-0.670 χ^2/NDF : 894389.6/15

Left Out: 2056.780+/-0.403 χ^2/NDF : 664644.3/16

Right Out: 2348.446+/-0.632 χ^2/NDF : 1052421.6/18

Left In: 2072.282+/-0.421 χ^2/NDF : 449228.7/14

Left: 2064.187+/-0.291 χ^2/NDF : 1114580.1/31

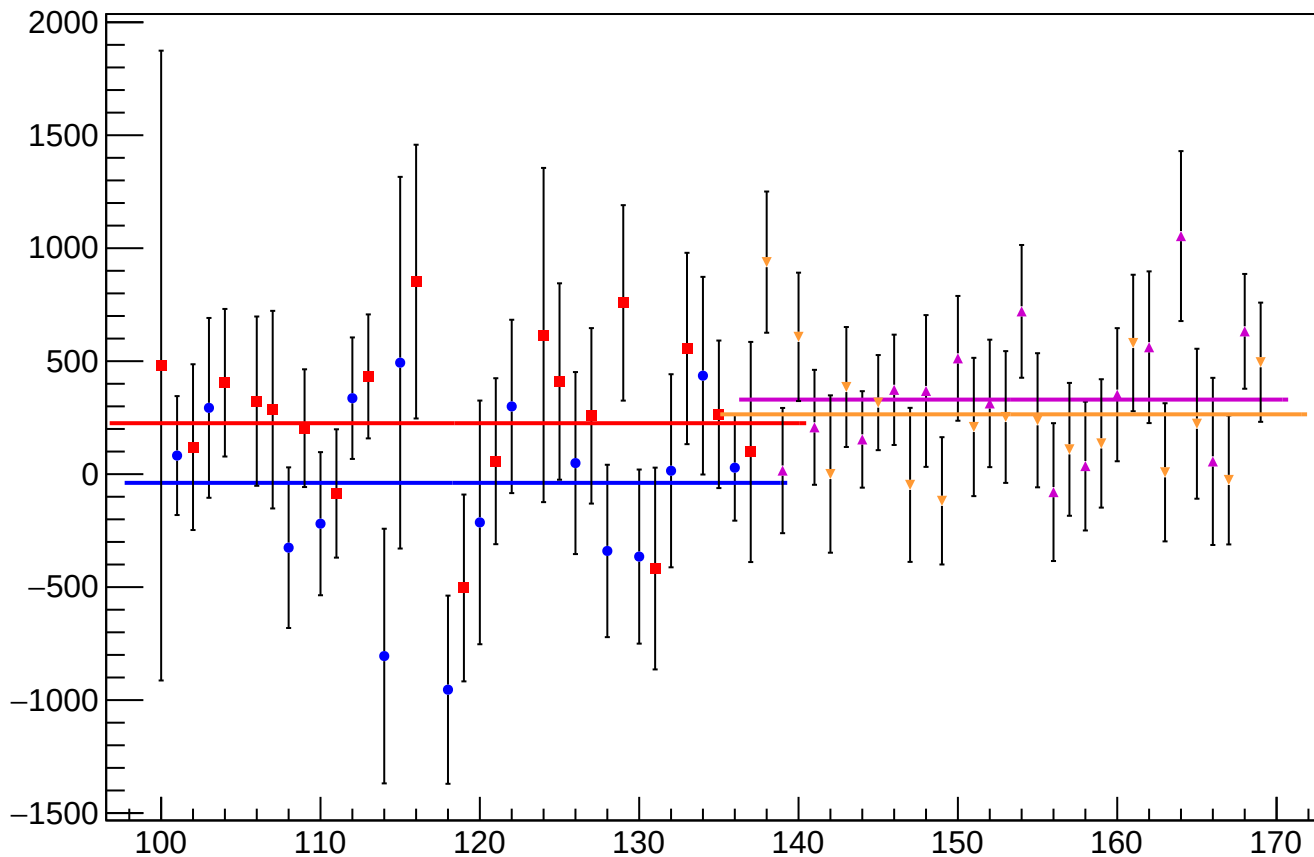
Right: 2398.691+/-0.460 χ^2/NDF : 1960216.3/34

In: 2180.769+/-0.357 χ^2/NDF : 1577601.2/30

Out: 2141.028+/-0.340 χ^2/NDF : 1868394.5/35

All: 2159.939+/-0.246 χ^2/NDF : 3452503.9/66

cor_asym_sam4_mean vs Slug, Sign Corrected



Right In: -38.519 ± 90.619 $\chi^2/\text{NDF}: 14.5/15$

Left Out: 264.779 ± 70.018 $\chi^2/\text{NDF}: 13.8/16$

Right Out: 225.515 ± 87.922 $\chi^2/\text{NDF}: 11.4/18$

Left In: 329.971 ± 73.199 $\chi^2/\text{NDF}: 13.5/14$

Left: 295.928 ± 50.597 $\chi^2/\text{NDF}: 27.6/31$

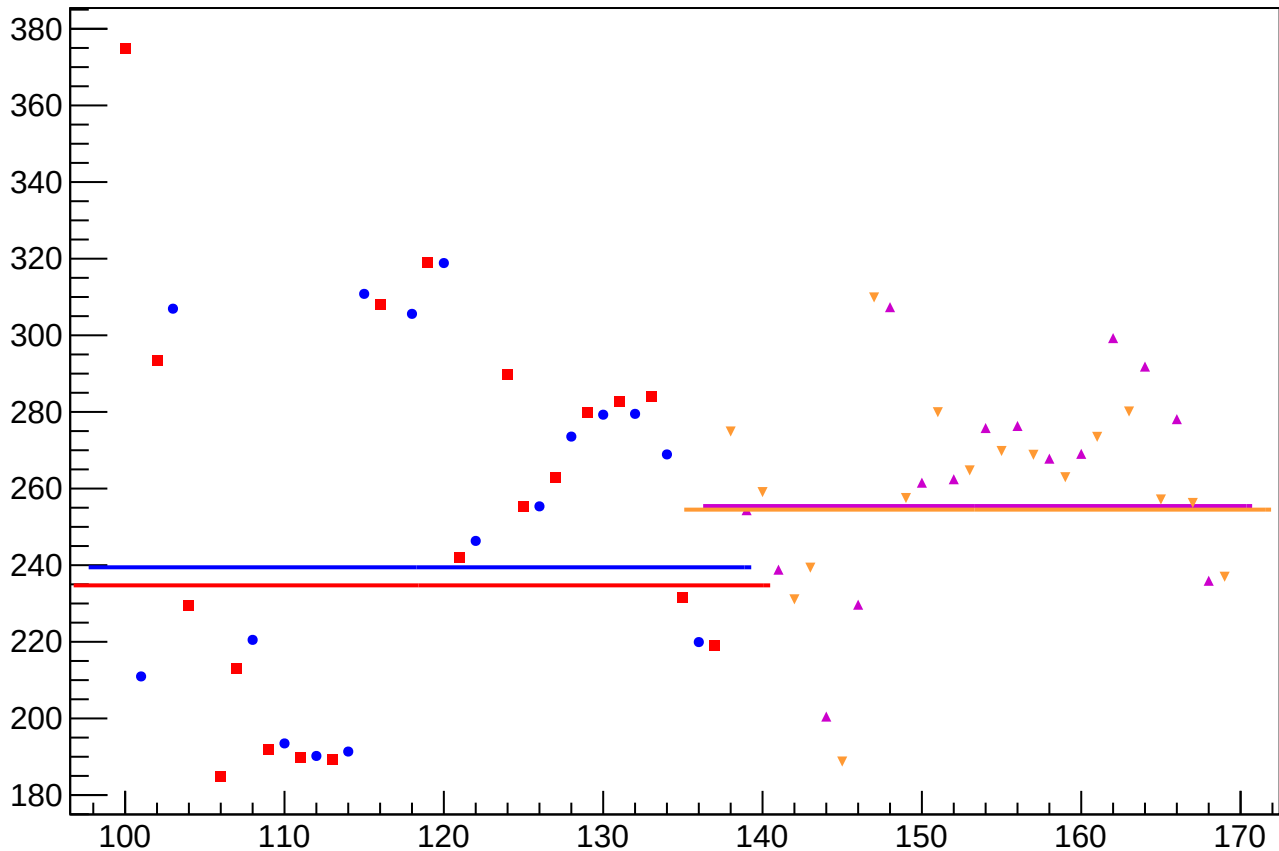
Right: 97.485 ± 63.102 $\chi^2/\text{NDF}: 30.3/34$

In: 184.471 ± 56.942 $\chi^2/\text{NDF}: 37.9/30$

Out: 249.541 ± 54.772 $\chi^2/\text{NDF}: 25.3/35$

All: 218.270 ± 39.475 $\chi^2/\text{NDF}: 63.9/66$

cor_asym_sam4_rms vs Slug, Sign Corrected



Right In: 239.449 $\pm$ 0.064 χ^2 /NDF: 400958.1/15

Left Out: 254.500 $\pm$ 0.050 χ^2 /NDF: 331849.1/16

Right Out: 234.733 $\pm$ 0.062 χ^2 /NDF: 485238.4/18

Left In: 255.436 $\pm$ 0.052 χ^2 /NDF: 312434.3/14

Left: 254.947 $\pm$ 0.036 χ^2 /NDF: 644454.5/31

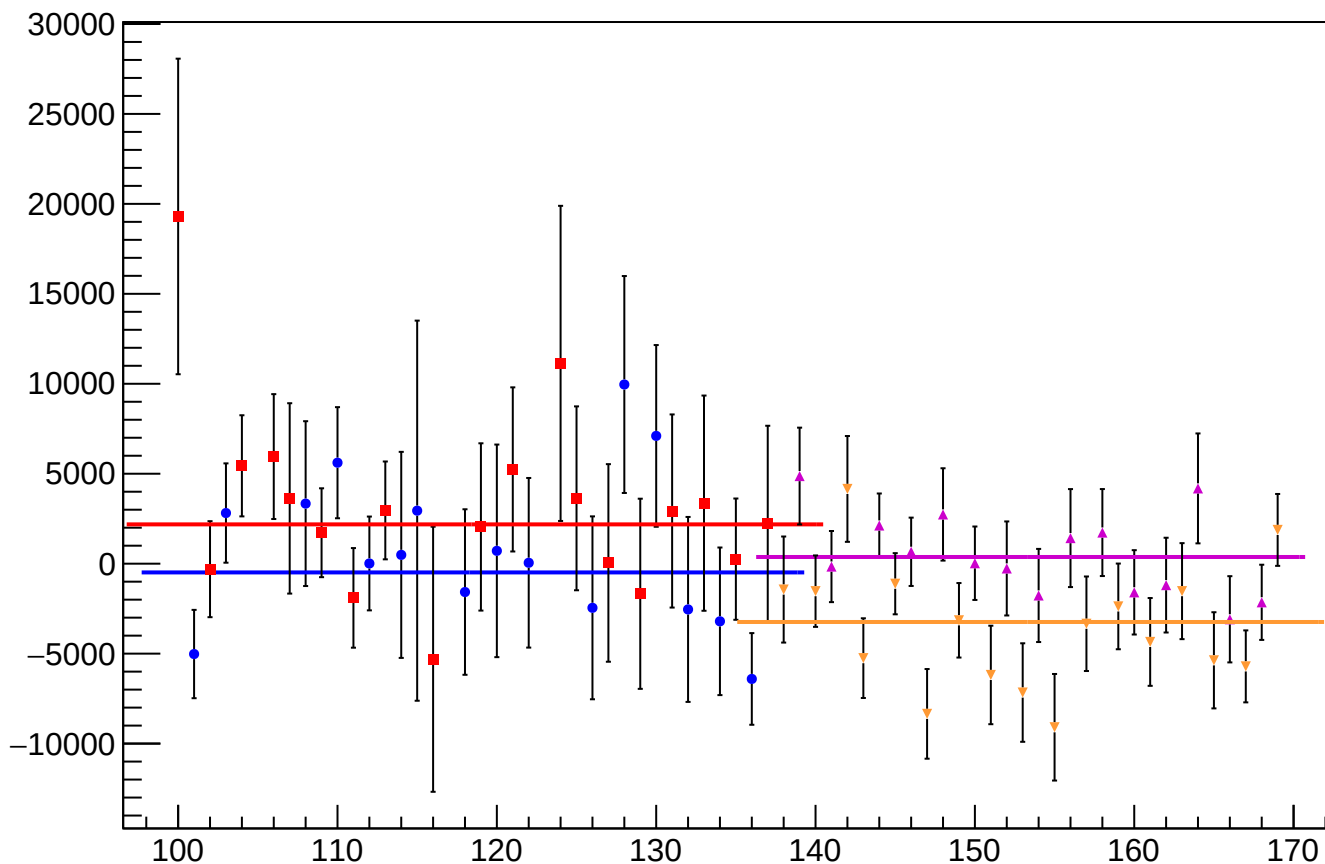
Right: 237.020 $\pm$ 0.045 χ^2 /NDF: 888987.0/34

In: 249.124 $\pm$ 0.040 χ^2 /NDF: 751063.6/30

Out: 246.828 $\pm$ 0.039 χ^2 /NDF: 878946.1/35

All: 247.932 $\pm$ 0.028 χ^2 /NDF: 1631697.7/66

asym_sam4_cor_correction_mean vs Slug, Sign Corrected



Right In: -486.103+/-947.467 χ^2/NDF : 21.1/15

Left Out: -3240.857+/-569.871 χ^2/NDF : 30.6/16

Right Out: 2184.834+/-895.863 χ^2/NDF : 13.3/18

Left In: 372.049+/-595.812 χ^2/NDF : 12.1/14

Left: -1514.766+/-411.825 χ^2/NDF : 61.9/31

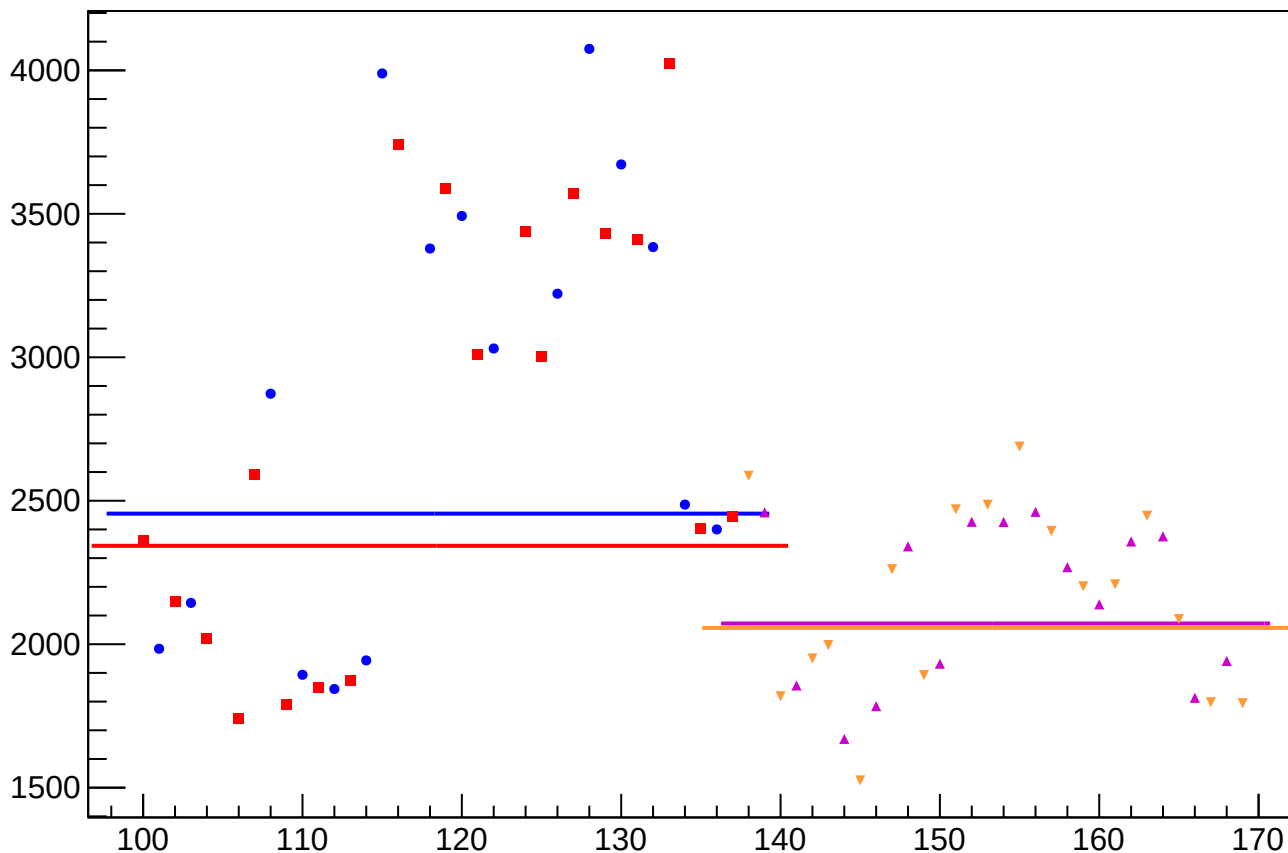
Right: 924.081+/-650.950 χ^2/NDF : 38.6/34

In: 128.862+/-504.373 χ^2/NDF : 33.8/30

Out: -1677.855+/-480.832 χ^2/NDF : 70.0/35

All: -817.642+/-348.025 χ^2/NDF : 110.5/66

asym_sam4_cor_correction_rms vs Slug, Sign Corrected



Right In: 2455.127+/-0.670 χ^2/NDF : 894358.3/15

Left Out: 2056.780+/-0.403 χ^2/NDF : 664645.5/16

Right Out: 2342.955+/-0.633 χ^2/NDF : 1070387.8/18

Left In: 2072.283+/-0.421 χ^2/NDF : 449226.4/14

Left: 2064.187+/-0.291 χ^2/NDF : 1114579.0/31

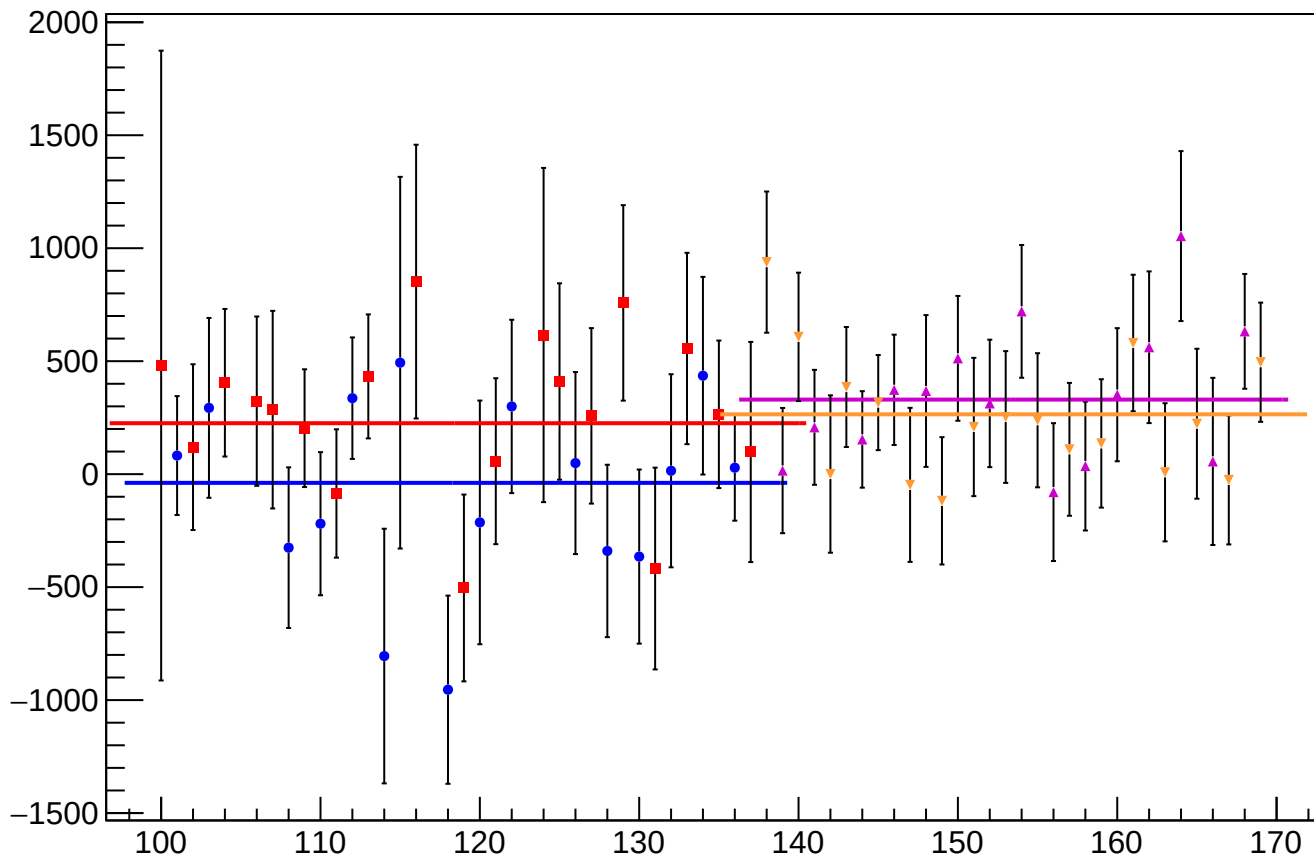
Right: 2395.904+/-0.460 χ^2/NDF : 1979546.8/34

In: 2180.775+/-0.357 χ^2/NDF : 1577593.3/30

Out: 2139.220+/-0.340 χ^2/NDF : 1880326.6/35

All: 2159.005+/-0.246 χ^2/NDF : 3465032.3/66

eigen_cor_asym_sam4_mean vs Slug, Sign Corrected



Right In: -38.519 $\pm$ 90.619 χ^2/NDF : 14.5/15

Left Out: 264.779 $\pm$ 70.018 χ^2/NDF :13.8/16

Right Out: 225.515 $\pm$ 87.922 χ^2/NDF : 11.4/18

Left In: 329.971 $\pm$ 73.199 χ^2/NDF :13.5/14

Left: 295.928 $\pm$ 50.597 χ^2/NDF : 27.6/31

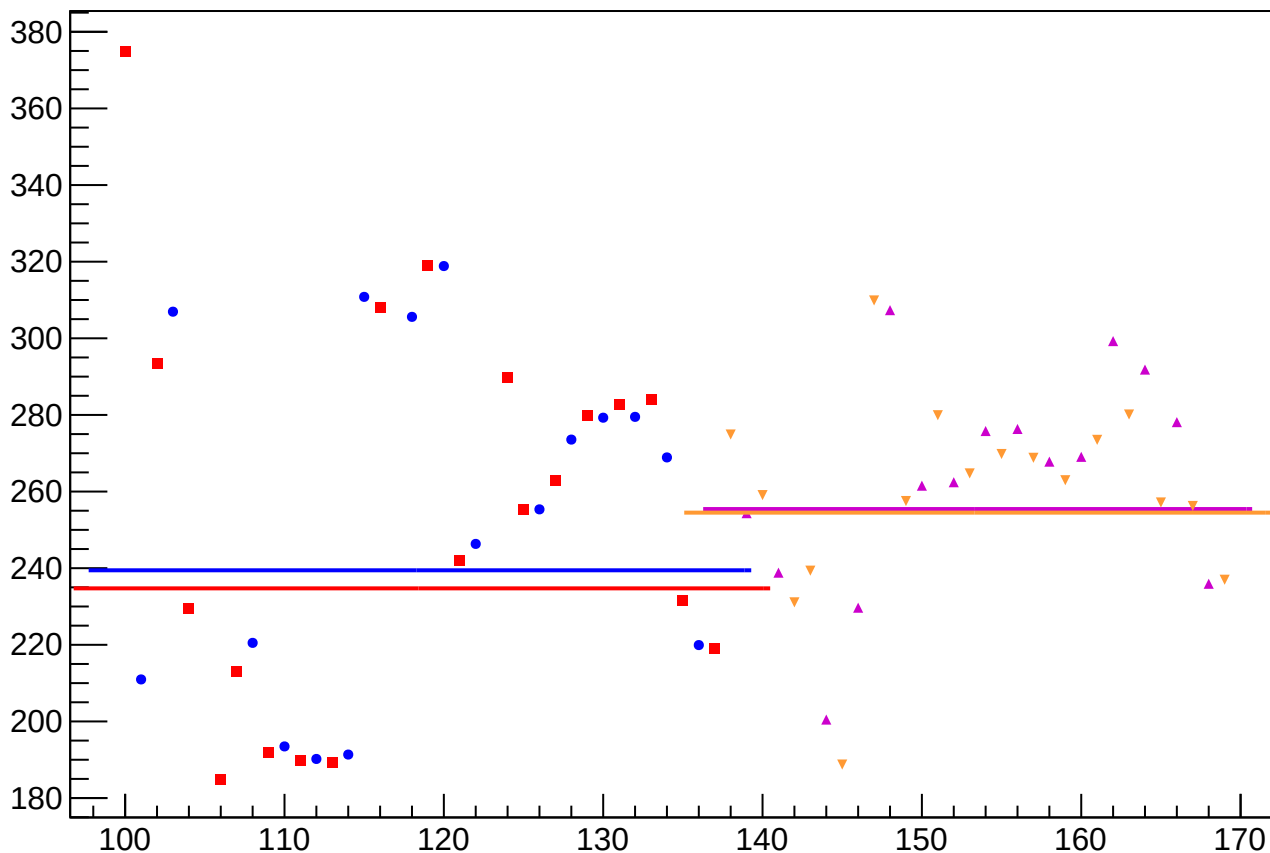
Right: 97.485 $\pm$ 63.102 χ^2/NDF : 30.3/34

In: 184.471 $\pm$ 56.942 χ^2/NDF :37.9/30

Out: 249.541 $\pm$ 54.772 χ^2/NDF :25.3/35

All: 218.270 $\pm$ 39.475 χ^2/NDF : 63.9/66

eigen_cor_asym_sam4_rms vs Slug, Sign Corrected



Right In: 239.449 $\pm$ 0.064 χ^2 /NDF: 400958.1/15

Left Out: 254.500 $\pm$ 0.050 χ^2 /NDF:331849.1/16

Right Out: 234.733 $\pm$ 0.062 χ^2 /NDF: 485238.4/18

Left In: 255.436 $\pm$ 0.052 χ^2 /NDF:312434.3/14

Left: 254.947 $\pm$ 0.036 χ^2 /NDF: 644454.5/31

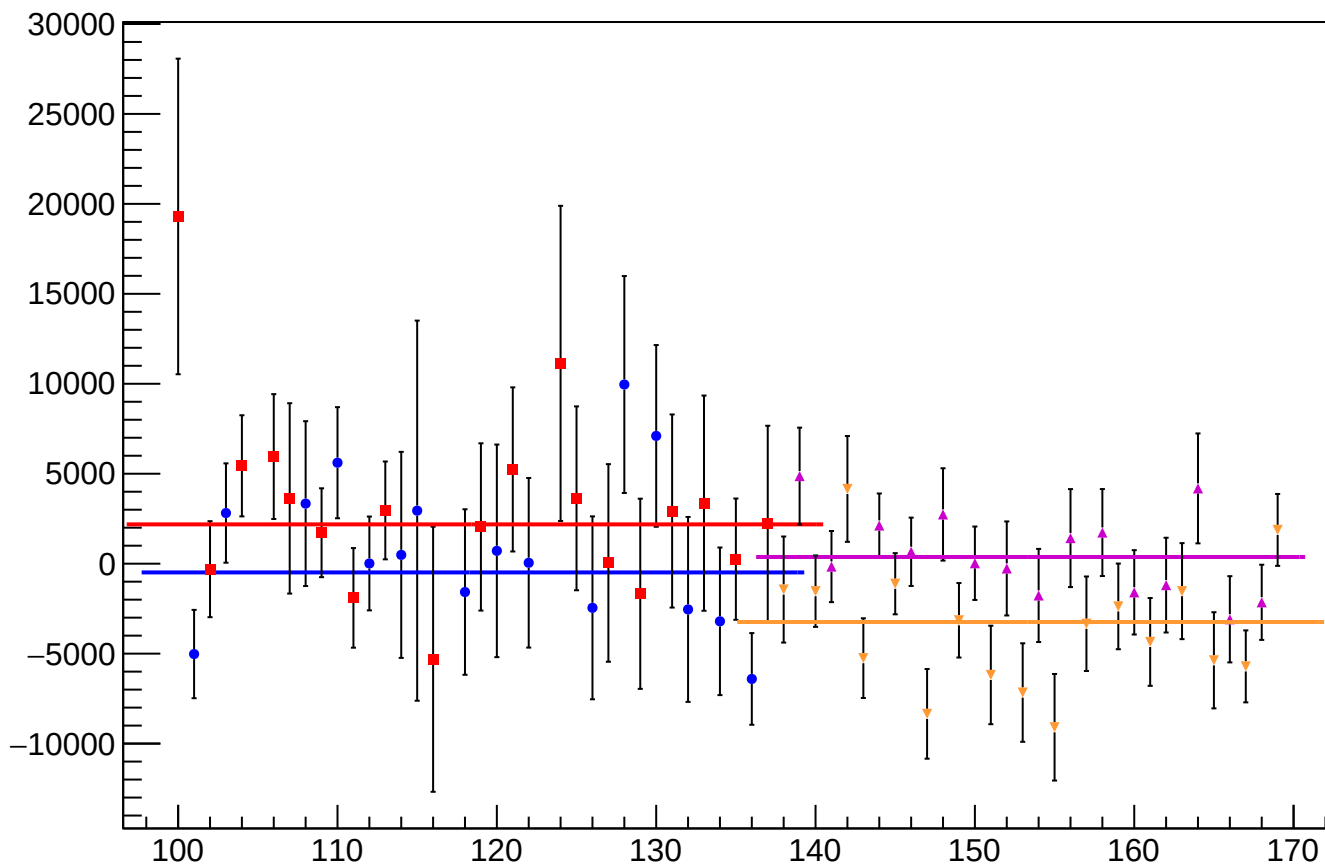
Right: 237.020 $\pm$ 0.045 χ^2 /NDF: 888987.0/34

In: 249.124 $\pm$ 0.040 χ^2 /NDF:751063.6/30

Out: 246.828 $\pm$ 0.039 χ^2 /NDF:878946.1/35

All: 247.932 $\pm$ 0.028 χ^2 /NDF: 1631697.7/66

asym_sam4_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -486.103+/-947.467 χ^2/NDF : 21.1/15

Left Out: -3240.857+/-569.871 χ^2/NDF : 30.6/16

Right Out: 2184.834+/-895.863 χ^2/NDF : 13.3/18

Left In: 372.049+/-595.812 χ^2/NDF : 12.1/14

Left: -1514.766+/-411.825 χ^2/NDF : 61.9/31

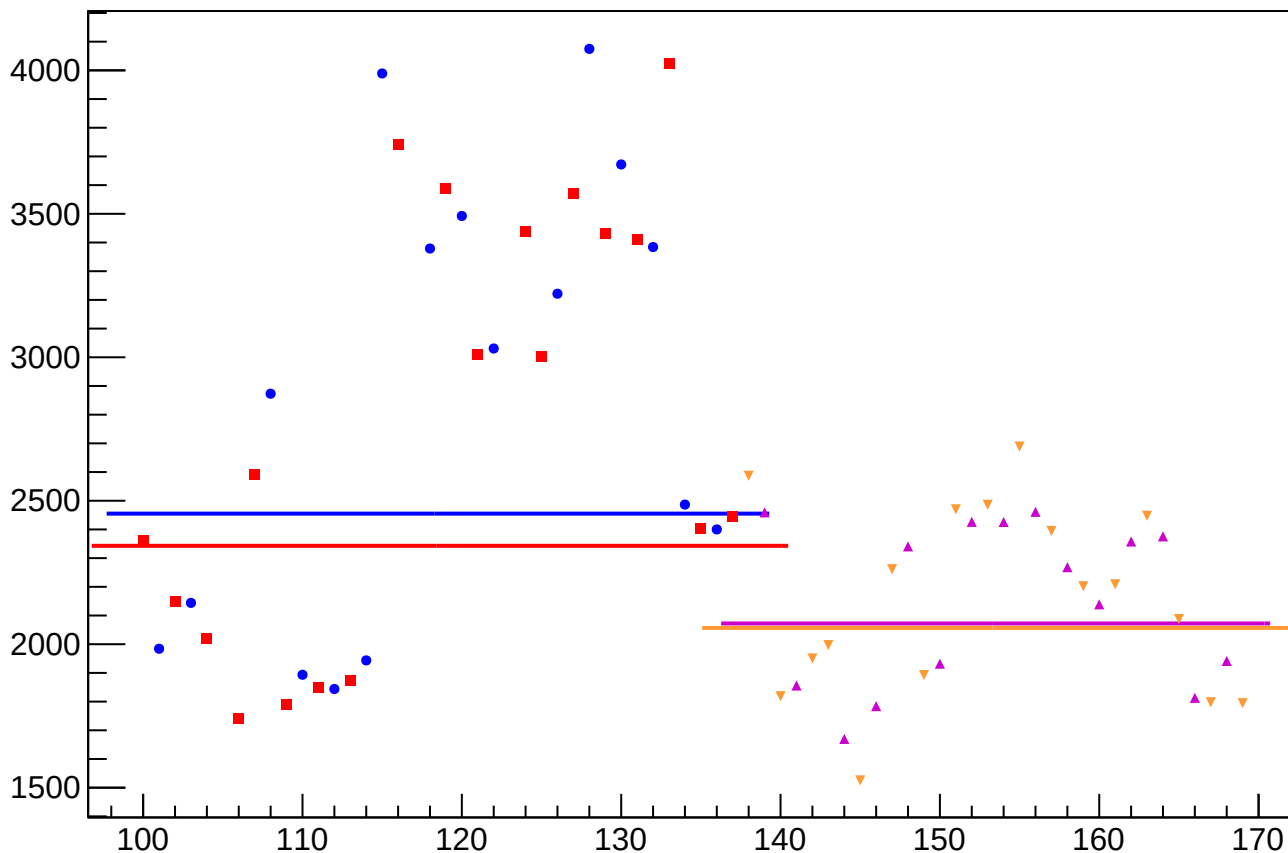
Right: 924.081+/-650.950 χ^2/NDF : 38.6/34

In: 128.862+/-504.373 χ^2/NDF : 33.8/30

Out: -1677.855+/-480.832 χ^2/NDF : 70.0/35

All: -817.642+/-348.025 χ^2/NDF : 110.5/66

asym_sam4_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2455.127+/-0.670 χ^2/NDF : 894358.3/15

Left Out: 2056.780+/-0.403 χ^2/NDF : 664645.5/16

Right Out: 2342.955+/-0.633 χ^2/NDF : 1070387.8/18

Left In: 2072.283+/-0.421 χ^2/NDF : 449226.4/14

Left: 2064.187+/-0.291 χ^2/NDF : 1114579.0/31

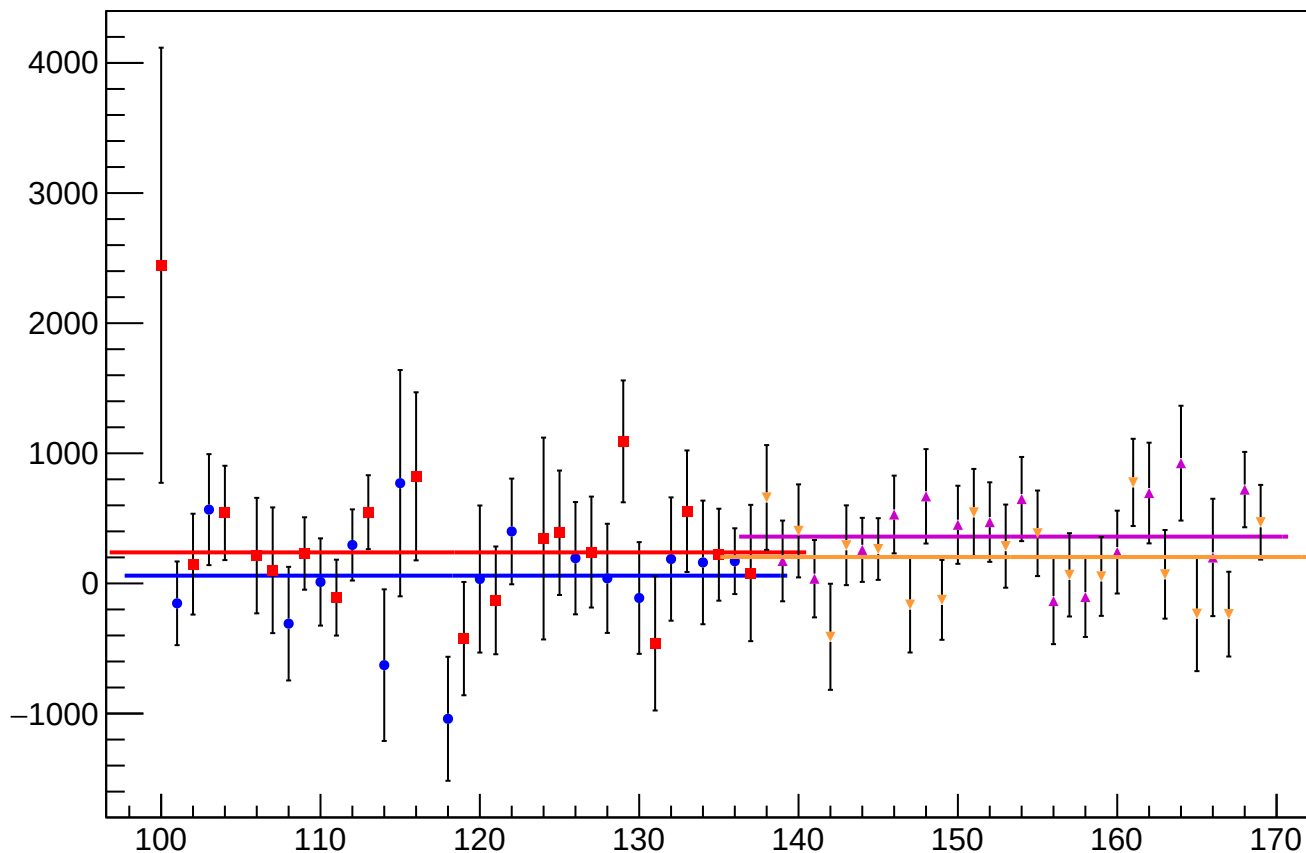
Right: 2395.904+/-0.460 χ^2/NDF : 1979546.8/34

In: 2180.775+/-0.357 χ^2/NDF : 1577593.3/30

Out: 2139.220+/-0.340 χ^2/NDF : 1880326.6/35

All: 2159.005+/-0.246 χ^2/NDF : 3465032.3/66

dit_asym_sam4_mean vs Slug, Sign Corrected



Right In: 59.728 $\pm$ 99.230 χ^2 /NDF: 12.0/15

Left Out: 202.874 $\pm$ 79.226 χ^2 /NDF:14.7/16

Right Out: 238.516 $\pm$ 95.062 χ^2 /NDF: 14.9/18

Left In: 359.688 $\pm$ 82.583 χ^2 /NDF:12.5/14

Left: 278.028 $\pm$ 57.171 χ^2 /NDF: 29.1/31

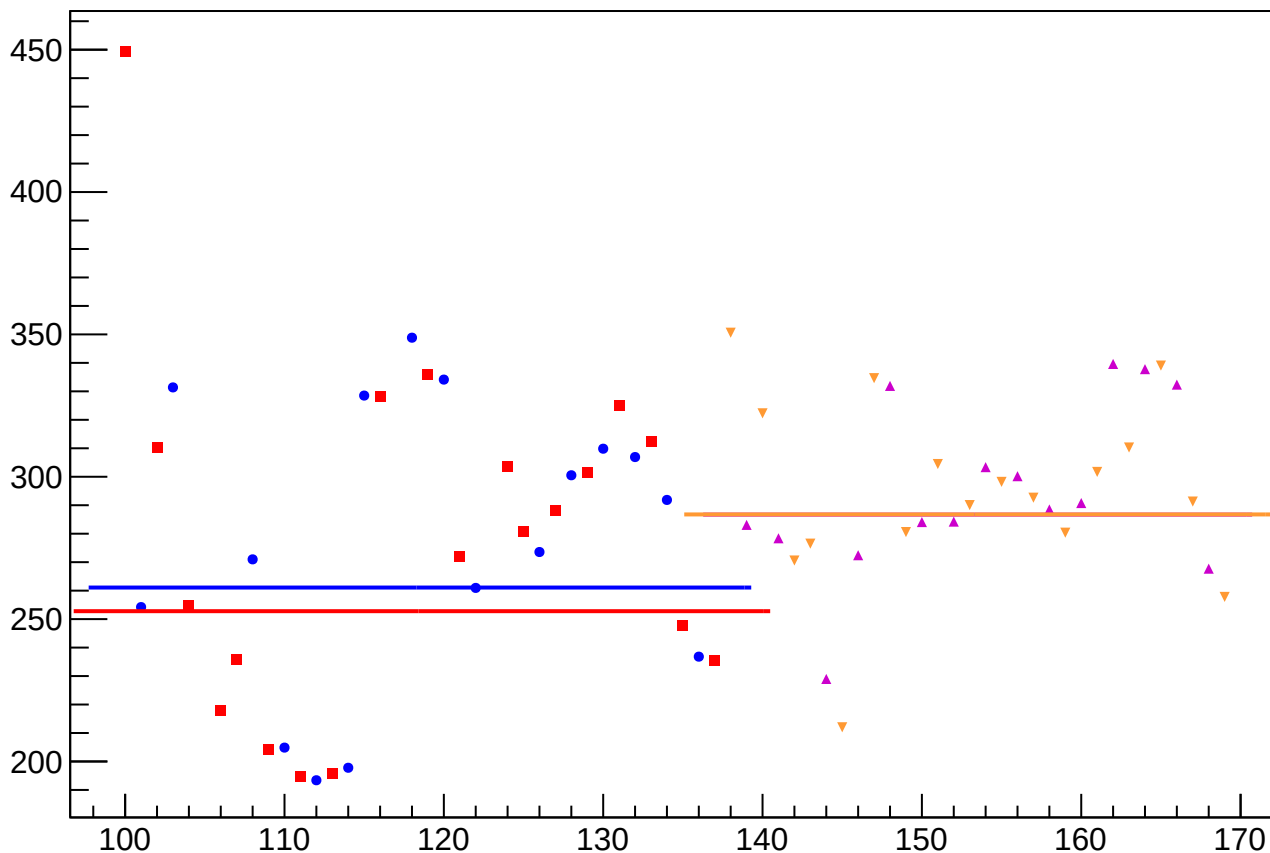
Right: 152.955 $\pm$ 68.645 χ^2 /NDF: 28.6/34

In: 236.943 $\pm$ 63.476 χ^2 /NDF:29.9/30

Out: 217.483 $\pm$ 60.861 χ^2 /NDF:29.8/35

All: 226.804 $\pm$ 43.931 χ^2 /NDF: 59.7/66

dit_asym_sam4_rms vs Slug, Sign Corrected



Right In: 261.089+/-0.070 χ^2/NDF : 462662.2/15

Left Out: 286.768+/-0.056 χ^2/NDF : 381221.6/16

Right Out: 252.787+/-0.067 χ^2/NDF : 537290.6/18

Left In: 286.701+/-0.058 χ^2/NDF : 250066.1/14

Left: 286.736+/-0.040 χ^2/NDF : 631288.4/31

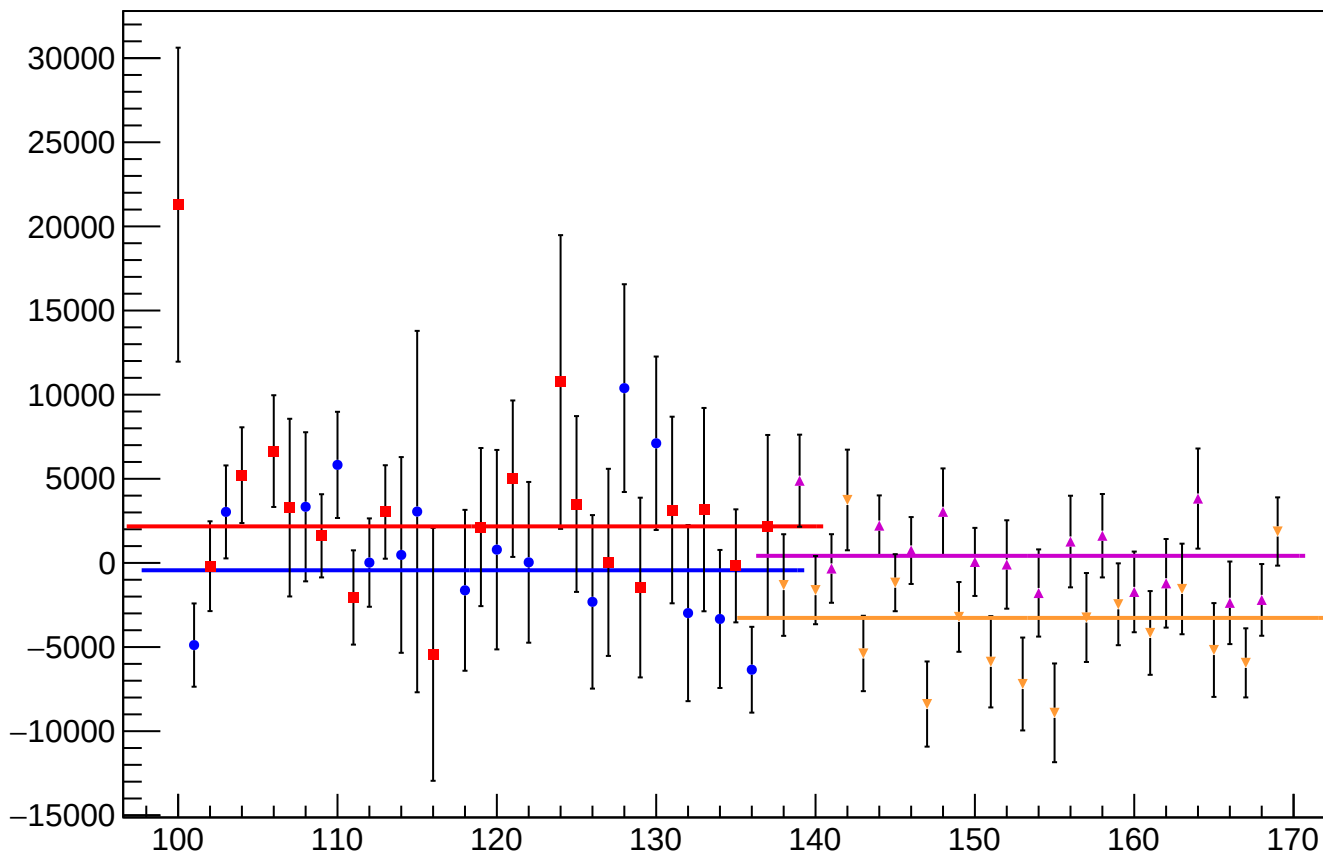
Right: 256.760+/-0.049 χ^2/NDF : 1007252.4/34

In: 276.221+/-0.045 χ^2/NDF : 791449.6/30

Out: 272.840+/-0.043 χ^2/NDF : 1069318.0/35

All: 274.459+/-0.031 χ^2/NDF : 1863723.9/66

asym_sam4_dit_correction_mean vs Slug, Sign Corrected



Right In: -436.732 $\pm$ 955.134 χ^2 /NDF: 21.2/15

Left Out: -3268.047 $\pm$ 576.913 χ^2 /NDF:28.9/16

Right Out: 2172.091 $\pm$ 901.102 χ^2 /NDF: 14.0/18

Left In: 421.354 $\pm$ 603.991 χ^2 /NDF:11.3/14

Left: -1507.900 $\pm$ 417.183 χ^2 /NDF: 59.7/31

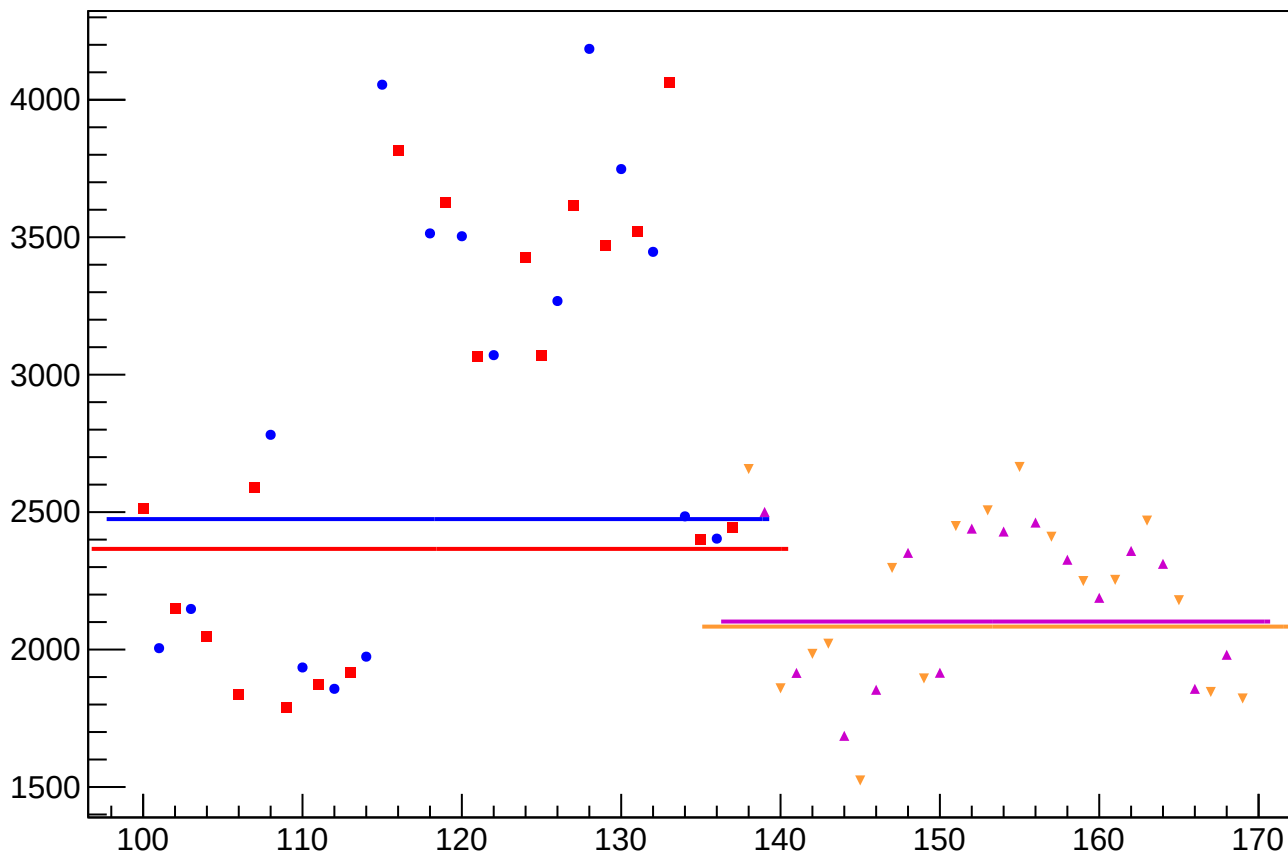
Right: 943.553 $\pm$ 655.445 χ^2 /NDF: 39.1/34

In: 176.238 $\pm$ 510.487 χ^2 /NDF:33.1/30

Out: -1686.450 $\pm$ 485.866 χ^2 /NDF:68.8/35

All: -801.106 $\pm$ 351.942 χ^2 /NDF: 108.8/66

asym_sam4_dit_correction_rms vs Slug, Sign Corrected



Right In: 2474.622 $\pm$ 0.675 χ^2 /NDF: 916250.9/15

Left Out: 2083.479 $\pm$ 0.408 χ^2 /NDF: 663468.1/16

Right Out: 2366.221 $\pm$ 0.637 χ^2 /NDF: 1077175.3/18

Left In: 2101.929 $\pm$ 0.427 χ^2 /NDF: 407858.8/14

Left: 2092.281 $\pm$ 0.295 χ^2 /NDF: 1072302.7/31

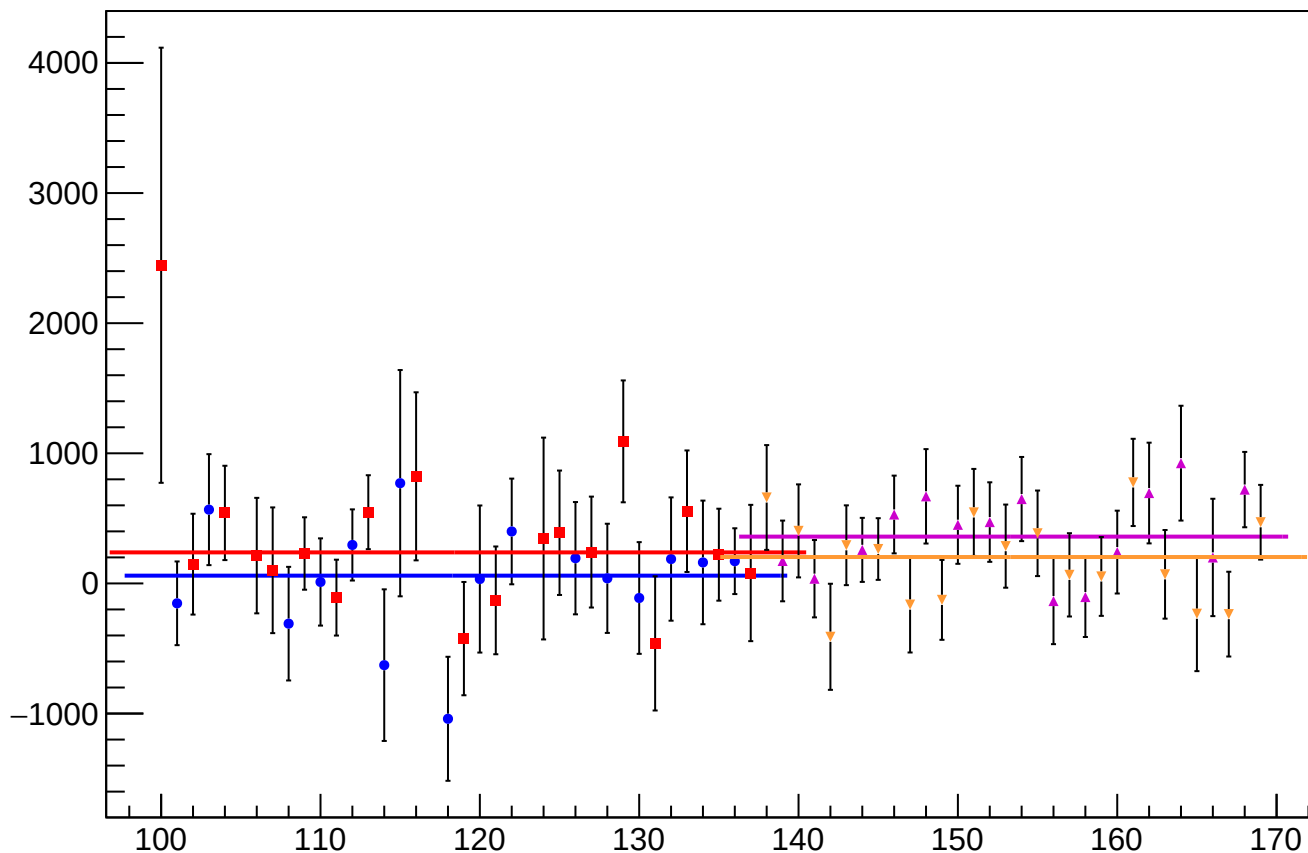
Right: 2417.269 $\pm$ 0.463 χ^2 /NDF: 2007056.0/34

In: 2208.390 $\pm$ 0.361 χ^2 /NDF: 1541636.3/30

Out: 2165.680 $\pm$ 0.344 χ^2 /NDF: 1880304.6/35

All: 2185.980 $\pm$ 0.249 χ^2 /NDF: 3429286.6/66

eigen_dit_asym_sam4_mean vs Slug, Sign Corrected



Right In: 59.734+/-99.230 χ^2/NDF : 12.0/15

Left Out: 202.879+/-79.226 χ^2/NDF :14.7/16

Right Out: 238.515+/-95.062 χ^2/NDF : 14.9/18

Left In: 359.689+/-82.583 χ^2/NDF :12.5/14

Left: 278.032+/-57.171 χ^2/NDF : 29.1/31

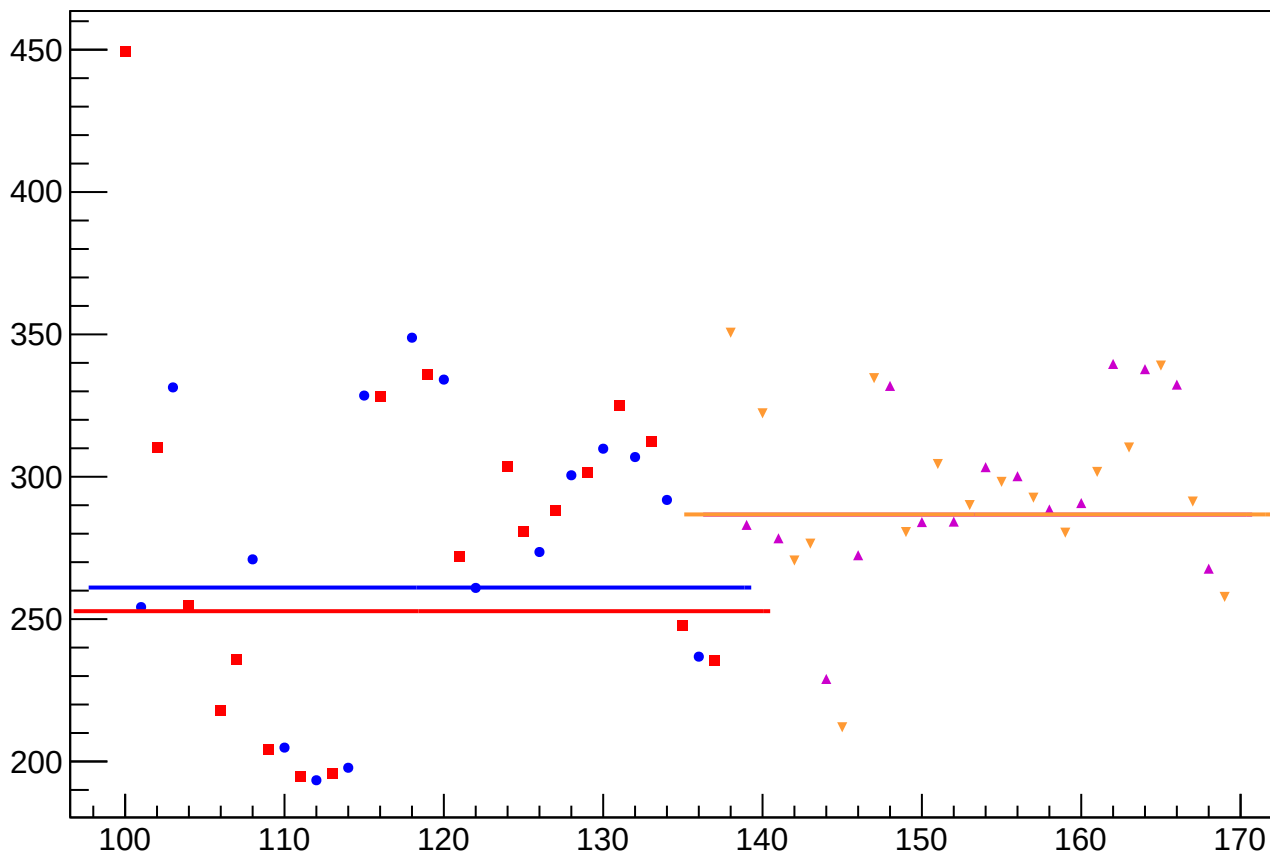
Right: 152.957+/-68.645 χ^2/NDF : 28.6/34

In: 236.946+/-63.476 χ^2/NDF :29.9/30

Out: 217.486+/-60.861 χ^2/NDF :29.8/35

All: 226.807+/-43.931 χ^2/NDF : 59.7/66

eigen_dit_asym_sam4_rms vs Slug, Sign Corrected



Right In: 261.089 ± 0.070 $\chi^2/\text{NDF}: 462665.3/15$

Left Out: 286.768 ± 0.056 $\chi^2/\text{NDF}: 381219.1/16$

Right Out: 252.787 ± 0.067 $\chi^2/\text{NDF}: 537293.8/18$

Left In: 286.702 ± 0.058 $\chi^2/\text{NDF}: 250065.1/14$

Left: 286.736 ± 0.040 $\chi^2/\text{NDF}: 631284.9/31$

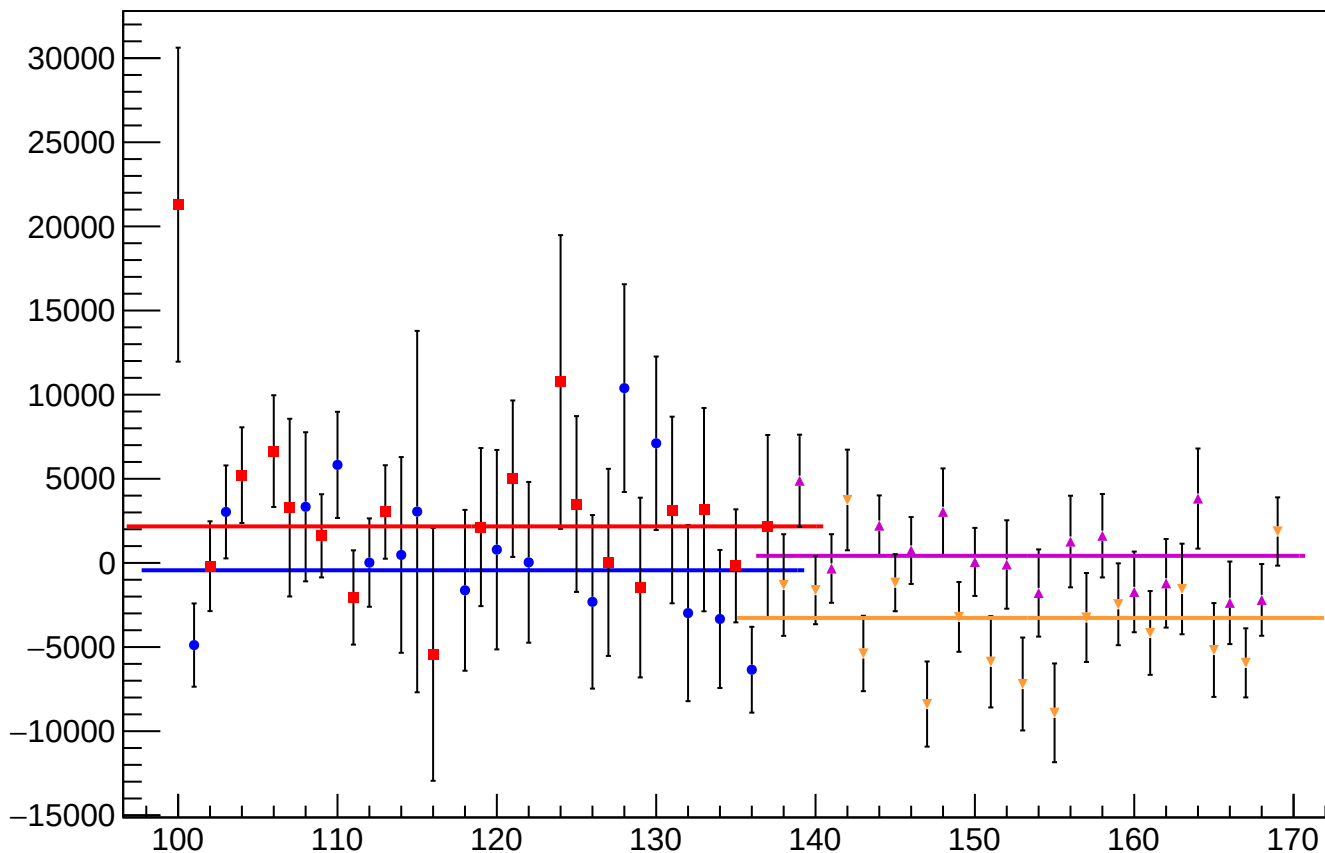
Right: 256.760 ± 0.049 $\chi^2/\text{NDF}: 1007258.7/34$

In: 276.221 ± 0.045 $\chi^2/\text{NDF}: 791453.4/30$

Out: 272.840 ± 0.043 $\chi^2/\text{NDF}: 1069322.4/35$

All: 274.459 ± 0.031 $\chi^2/\text{NDF}: 1863732.1/66$

asym_sam4_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -436.731+/-955.133 χ^2/NDF : 21.2/15

Left Out: -3268.039+/-576.912 χ^2/NDF : 28.9/16

Right Out: 2172.089+/-901.101 χ^2/NDF : 14.0/18

Left In: 421.352+/-603.990 χ^2/NDF : 11.3/14

Left: -1507.897+/-417.183 χ^2/NDF : 59.7/31

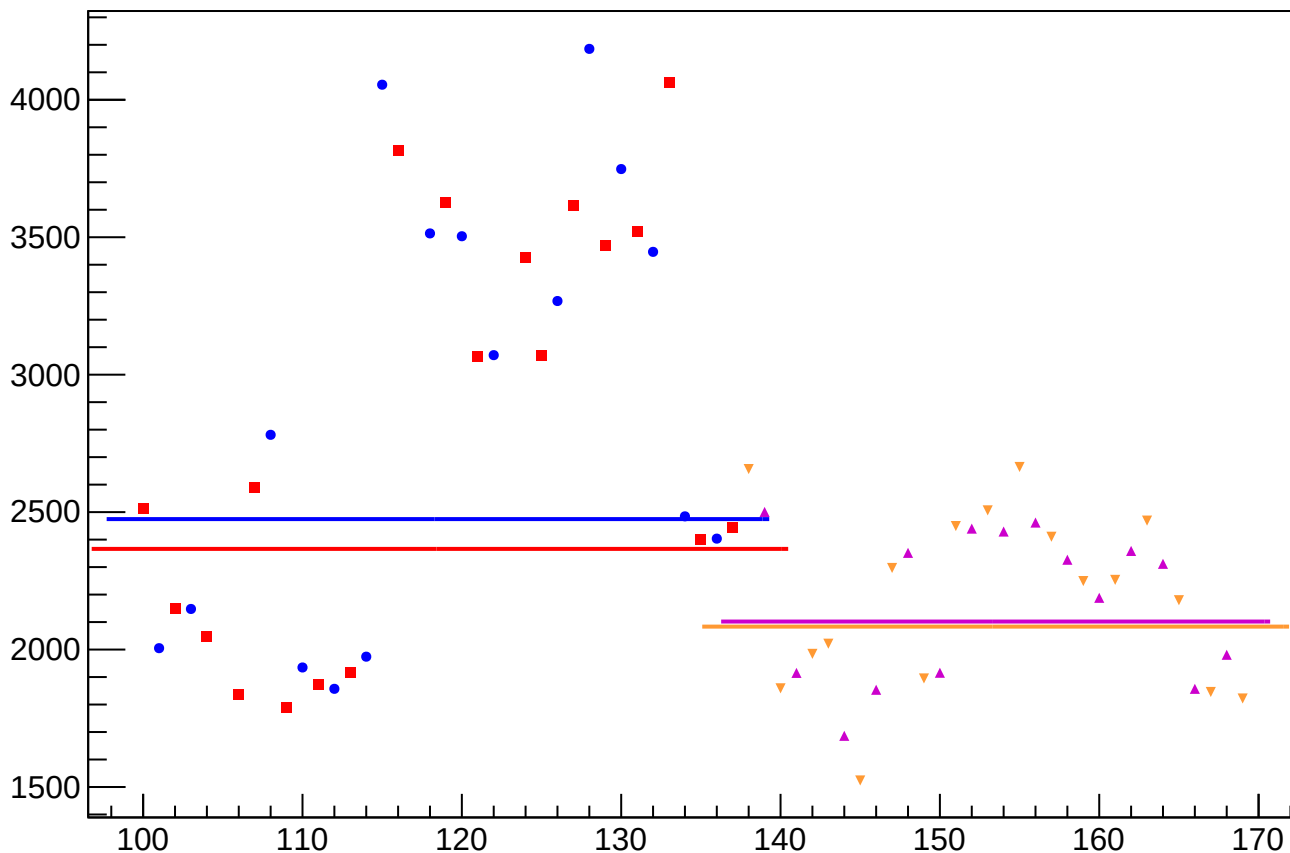
Right: 943.553+/-655.444 χ^2/NDF : 39.1/34

In: 176.237+/-510.487 χ^2/NDF : 33.1/30

Out: -1686.446+/-485.866 χ^2/NDF : 68.8/35

All: -801.105+/-351.941 χ^2/NDF : 108.8/66

asym_sam4_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2474.620+/-0.675 χ^2/NDF : 916254.1/15

Left Out: 2083.476+/-0.408 χ^2/NDF : 663473.9/16

Right Out: 2366.219+/-0.637 χ^2/NDF : 1077177.7/18

Left In: 2101.927+/-0.427 χ^2/NDF : 407858.8/14

Left: 2092.279+/-0.295 χ^2/NDF : 1072308.6/31

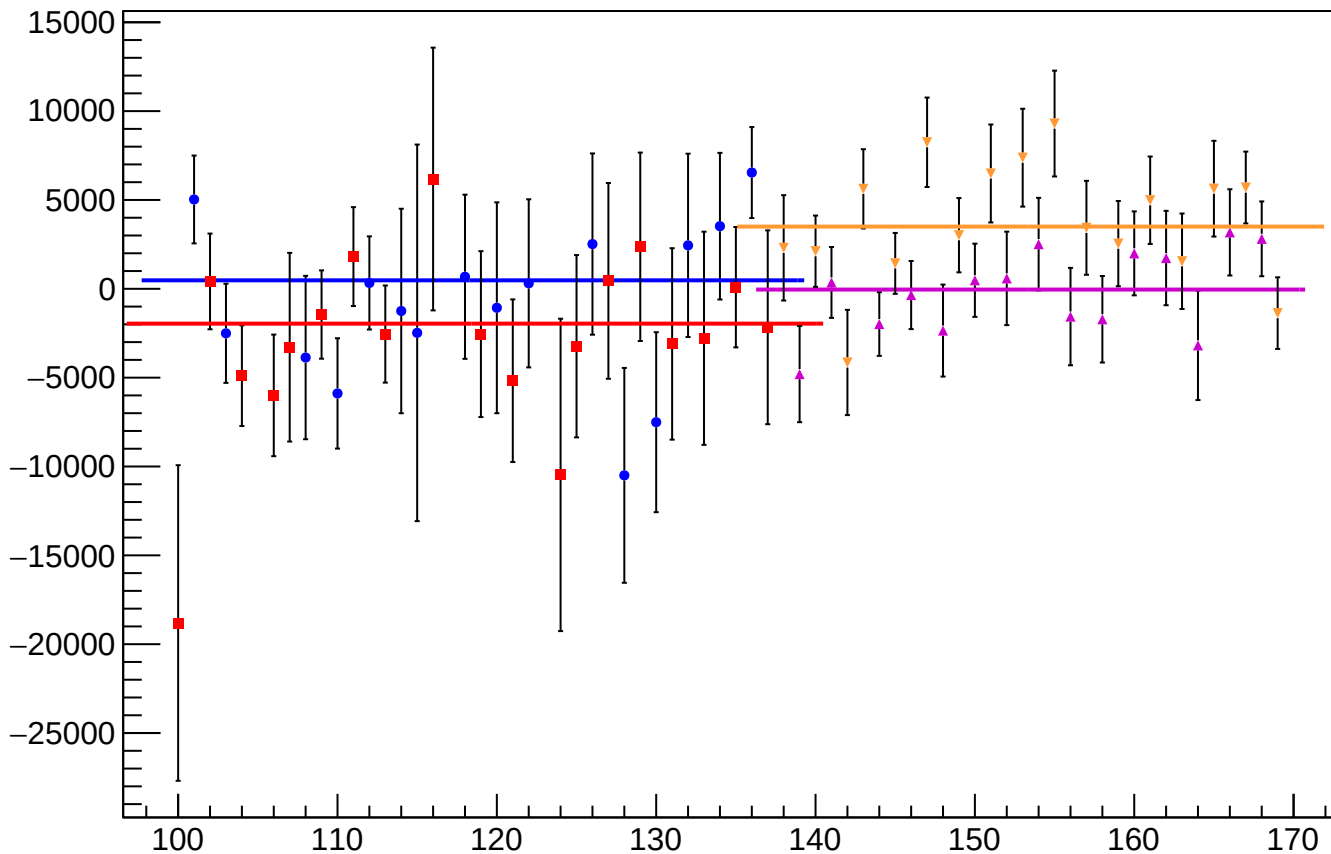
Right: 2417.267+/-0.463 χ^2/NDF : 2007061.7/34

In: 2208.388+/-0.361 χ^2/NDF : 1541640.6/30

Out: 2165.677+/-0.344 χ^2/NDF : 1880314.4/35

All: 2185.978+/-0.249 χ^2/NDF : 3429300.9/66

asym_sam4_mean vs Slug, Sign Corrected



Right In: 477.284 $\pm$ 952.752 χ^2 /NDF: 22.1/15

Left Out: 3501.194 $\pm$ 574.428 χ^2 /NDF:28.9/16

Right Out: -1959.491 $\pm$ 899.702 χ^2 /NDF: 12.8/18

Left In: -42.349 $\pm$ 600.549 χ^2 /NDF:12.8/14

Left: 1808.160 $\pm$ 415.109 χ^2 /NDF: 59.9/31

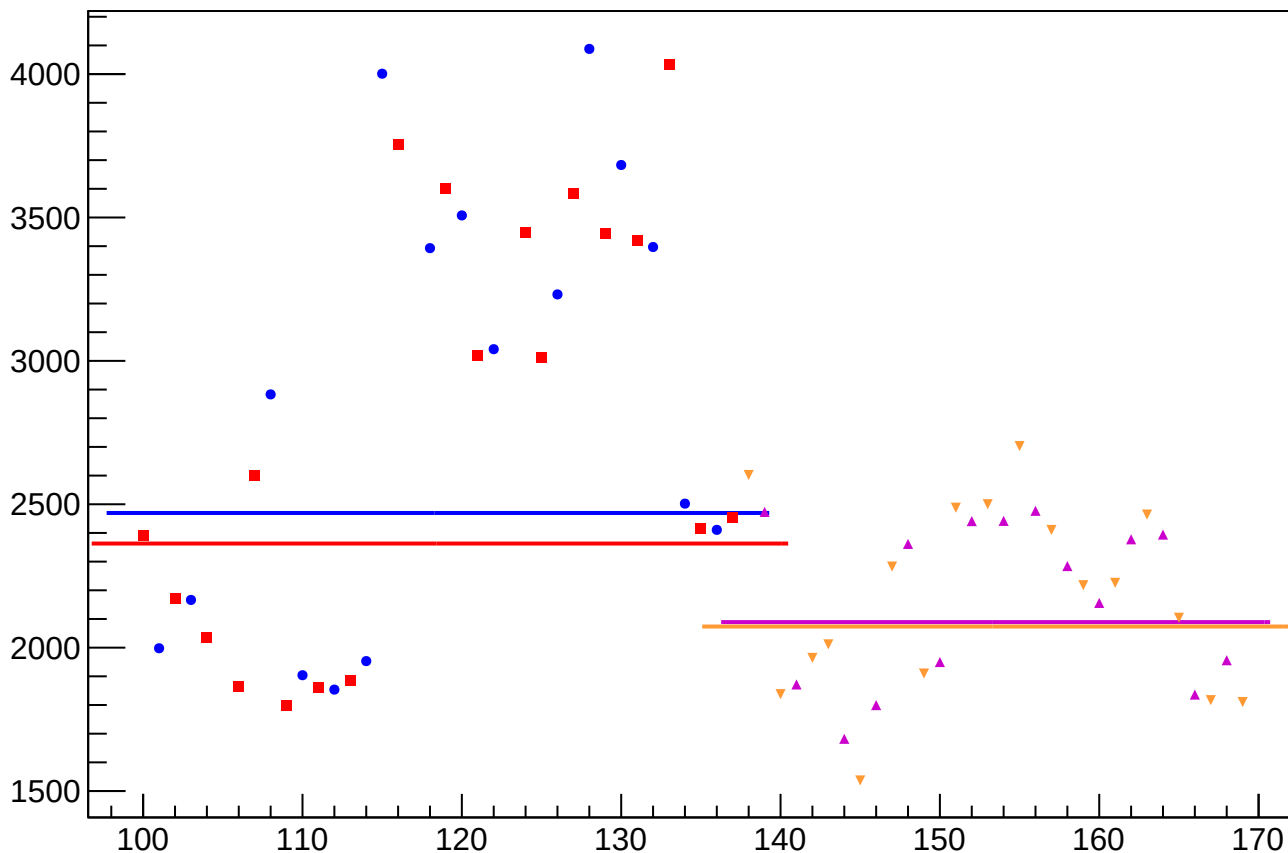
Right: -810.830 $\pm$ 654.136 χ^2 /NDF: 38.4/34

In: 105.405 $\pm$ 508.044 χ^2 /NDF:35.1/30

Out: 1919.835 $\pm$ 484.162 χ^2 /NDF:67.9/35

All: 1056.268 $\pm$ 350.493 χ^2 /NDF: 109.8/66

asym_sam4_rms vs Slug, Sign Corrected



Right In: 2469.639 $\pm$ 0.674 χ^2 /NDF: 886179.0/15

Left Out: 2073.652 $\pm$ 0.406 χ^2 /NDF: 656703.5/16

Right Out: 2363.052 $\pm$ 0.636 χ^2 /NDF: 1043344.3/18

Left In: 2089.063 $\pm$ 0.425 χ^2 /NDF: 444357.0/14

Left: 2081.015 $\pm$ 0.294 χ^2 /NDF: 1101748.4/31

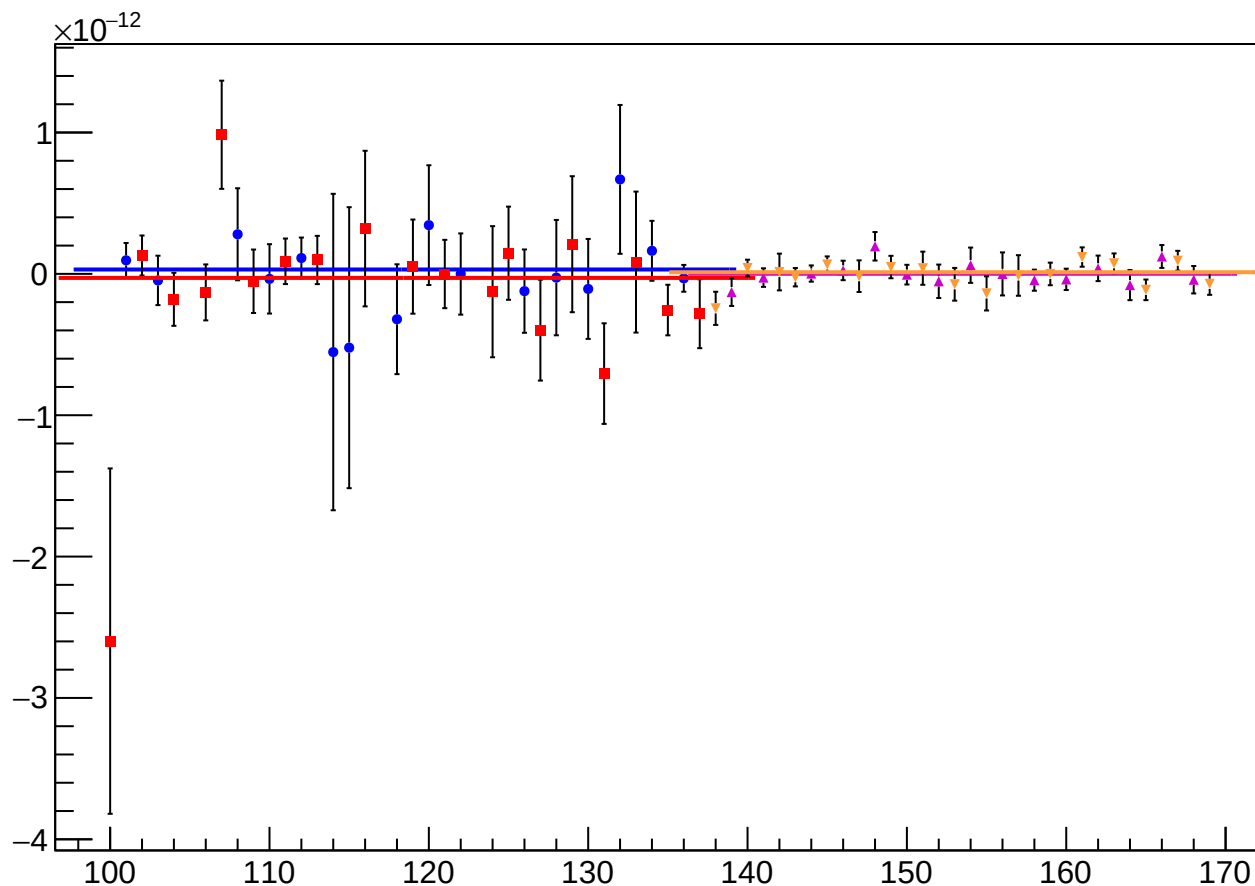
Right: 2413.296 $\pm$ 0.463 χ^2 /NDF: 1942755.0/34

In: 2197.277 $\pm$ 0.359 χ^2 /NDF: 1558915.8/30

Out: 2157.459 $\pm$ 0.342 χ^2 /NDF: 1847055.9/35

All: 2176.410 $\pm$ 0.248 χ^2 /NDF: 3412409.8/66

asym_sam4_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 6.1/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:17.3/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 23.2/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:10.1/14

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 27.5/31

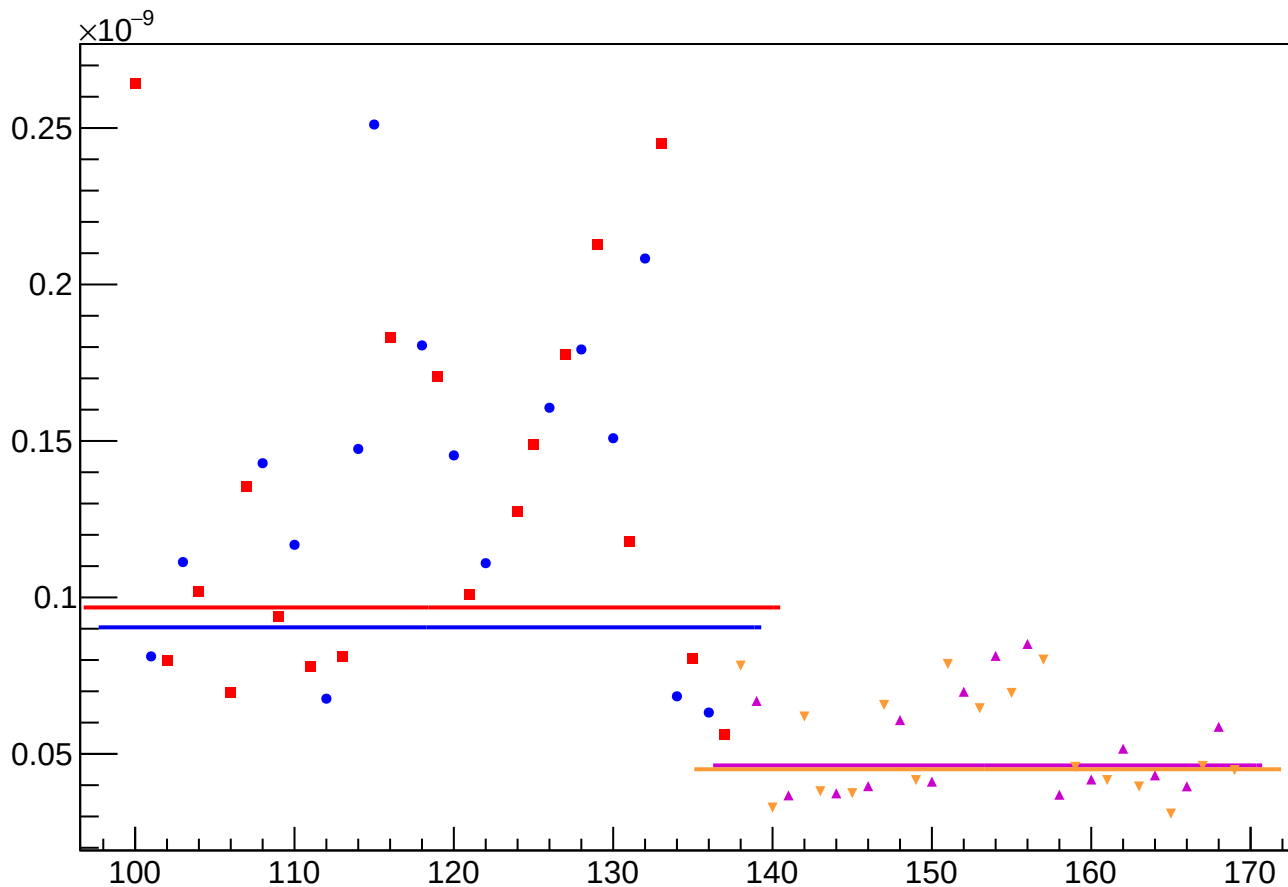
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 29.9/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:16.5/30

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:41.0/35

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 57.4/66

asym_sam4_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 926723.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 925555.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 851500.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 709724.8/14

Left: 0.000+/-0.000 χ^2/NDF : 1638795.4/31

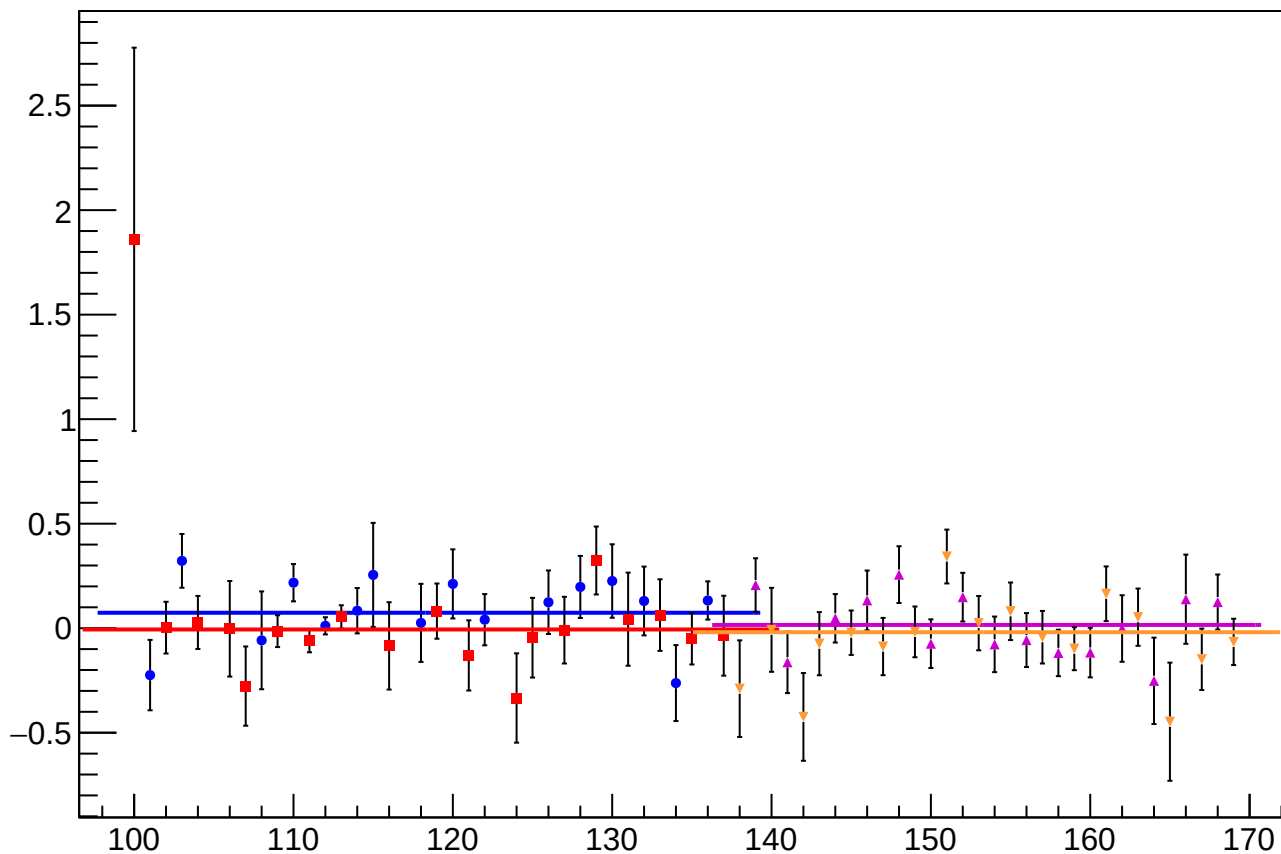
Right: 0.000+/-0.000 χ^2/NDF : 1791911.9/34

In: 0.000+/-0.000 χ^2/NDF : 2843833.5/30

Out: 0.000+/-0.000 χ^2/NDF : 3298797.4/35

All: 0.000+/-0.000 χ^2/NDF : 6152283.2/66

asym_sam4_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.074+/-0.027 χ^2/NDF : 19.0/15

Left Out: -0.019+/-0.033 χ^2/NDF : 20.1/16

Right Out: -0.006+/-0.027 χ^2/NDF : 16.4/18

Left In: 0.016+/-0.034 χ^2/NDF : 15.7/14

Left: -0.002+/-0.024 χ^2/NDF : 36.4/31

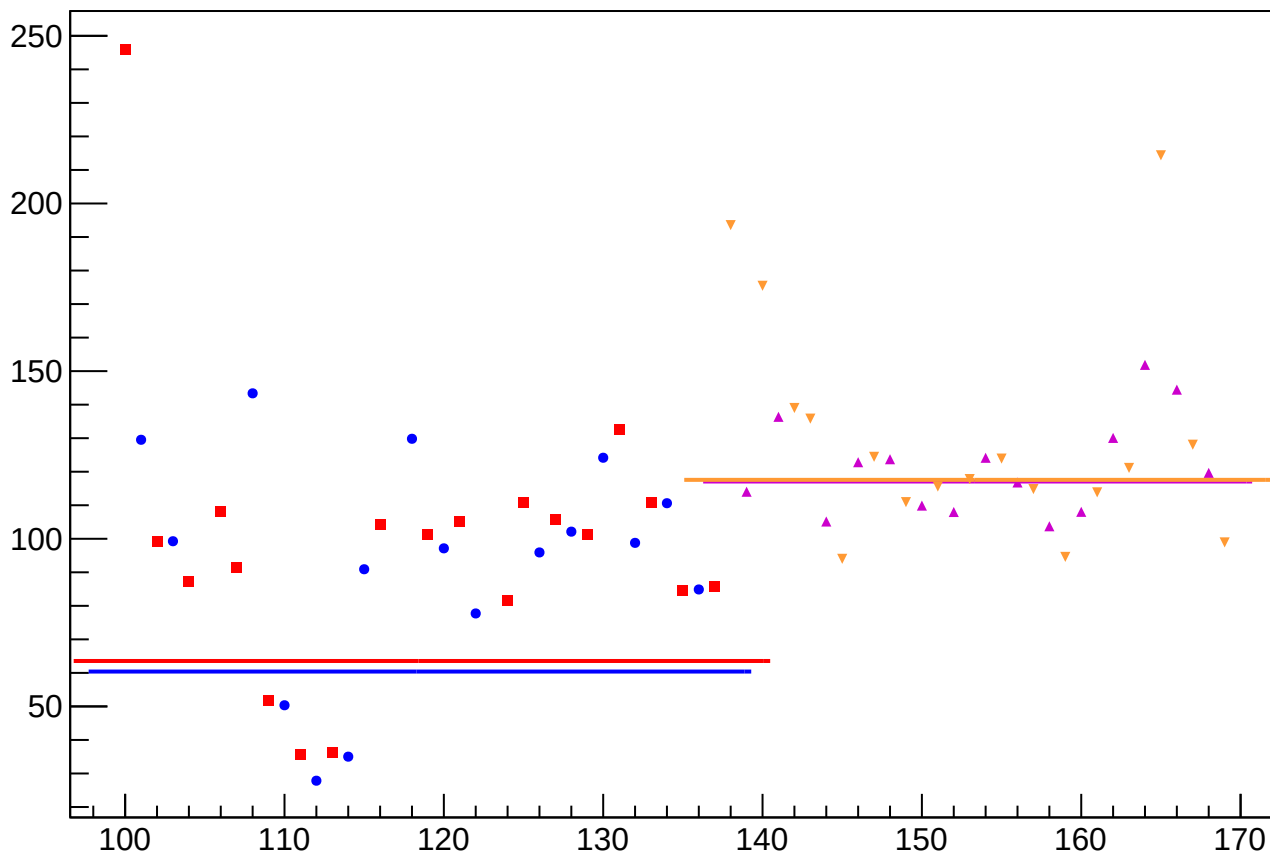
Right: 0.034+/-0.019 χ^2/NDF : 39.8/34

In: 0.052+/-0.021 χ^2/NDF : 36.4/30

Out: -0.011+/-0.021 χ^2/NDF : 36.7/35

All: 0.020+/-0.015 χ^2/NDF : 77.5/66

asym_sam4_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.401 $\pm$ 0.019 χ^2/NDF : 3538126.0/15

Left Out: 117.575 $\pm$ 0.024 χ^2/NDF : 951471.9/16

Right Out: 63.553 $\pm$ 0.019 χ^2/NDF : 2654516.9/18

Left In: 117.080 $\pm$ 0.024 χ^2/NDF : 234393.9/14

Left: 117.336 $\pm$ 0.017 χ^2/NDF : 1186078.9/31

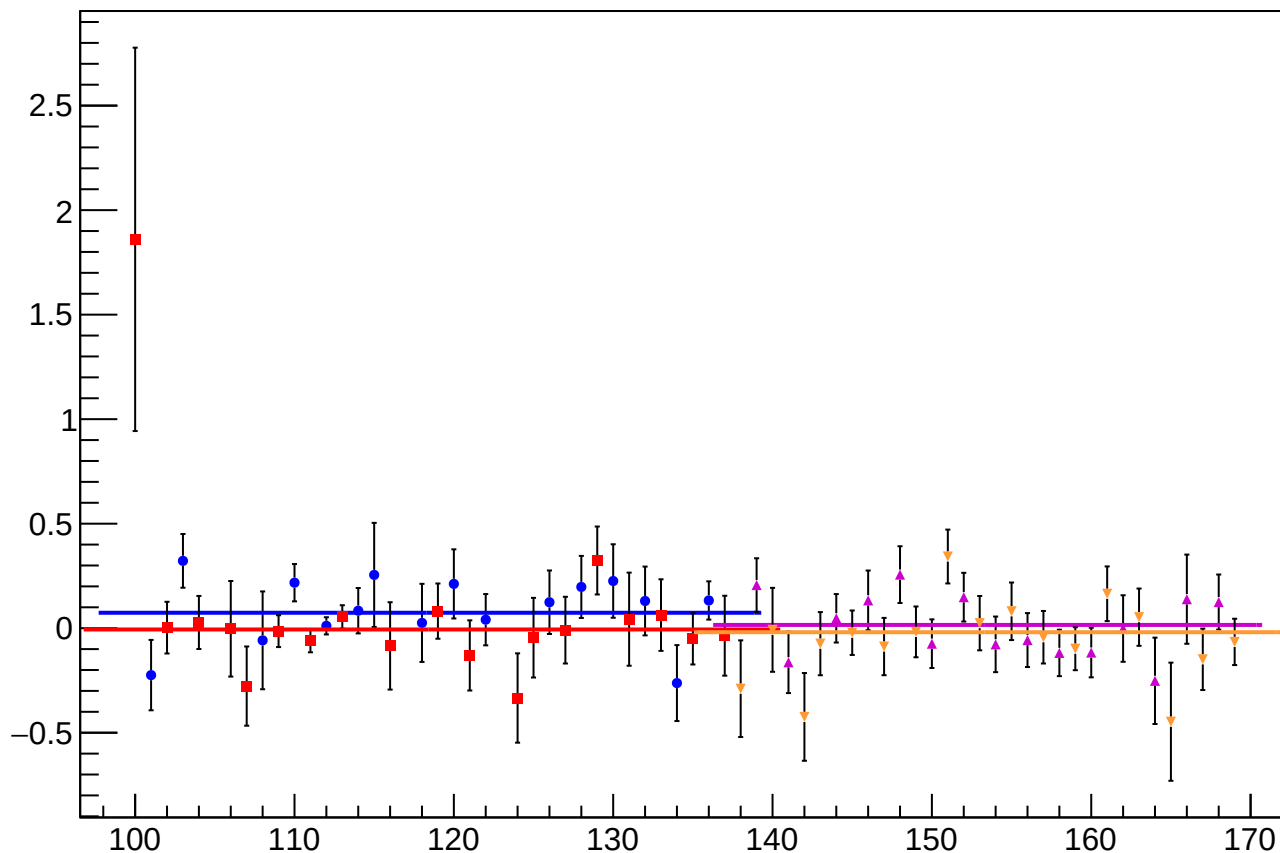
Right: 61.987 $\pm$ 0.013 χ^2/NDF : 6206346.3/34

In: 81.991 $\pm$ 0.015 χ^2/NDF : 7126738.9/30

Out: 84.818 $\pm$ 0.015 χ^2/NDF : 6797537.0/35

All: 83.429 $\pm$ 0.011 χ^2/NDF : 13942268.6/66

asym_sam4_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.074 ± 0.027 $\chi^2/\text{NDF}: 19.0/15$

Left Out: -0.019 ± 0.033 $\chi^2/\text{NDF}: 20.1/16$

Right Out: -0.006 ± 0.027 $\chi^2/\text{NDF}: 16.4/18$

Left In: 0.016 ± 0.034 $\chi^2/\text{NDF}: 15.7/14$

Left: -0.002 ± 0.024 $\chi^2/\text{NDF}: 36.4/31$

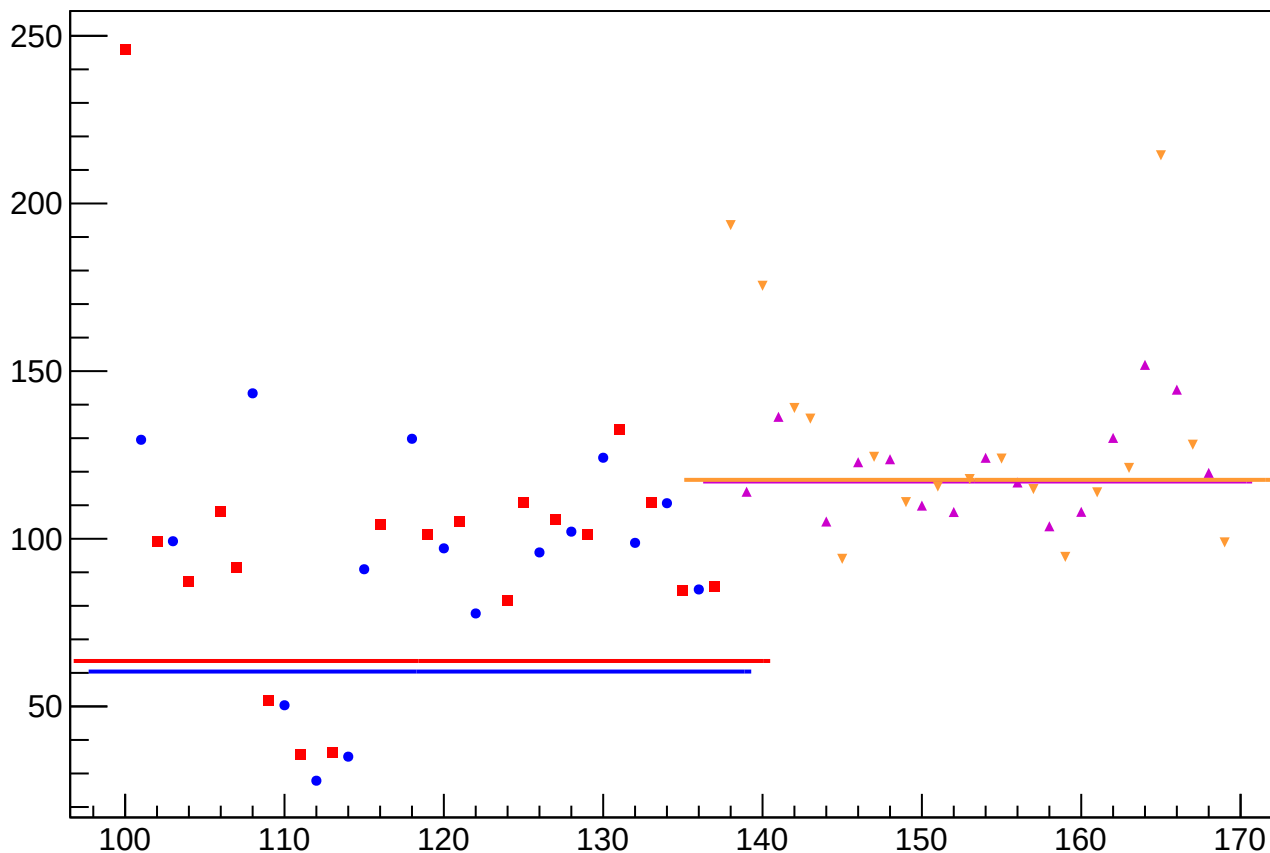
Right: 0.034 ± 0.019 $\chi^2/\text{NDF}: 39.8/34$

In: 0.052 ± 0.021 $\chi^2/\text{NDF}: 36.4/30$

Out: -0.011 ± 0.021 $\chi^2/\text{NDF}: 36.7/35$

All: 0.020 ± 0.015 $\chi^2/\text{NDF}: 77.5/66$

asym_sam4_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.401+/-0.019 χ^2/NDF : 3538126.0/15

Left Out: 117.575+/-0.024 χ^2/NDF : 951471.9/16

Right Out: 63.553+/-0.019 χ^2/NDF : 2654516.9/18

Left In: 117.080+/-0.024 χ^2/NDF : 234393.9/14

Left: 117.336+/-0.017 χ^2/NDF : 1186078.9/31

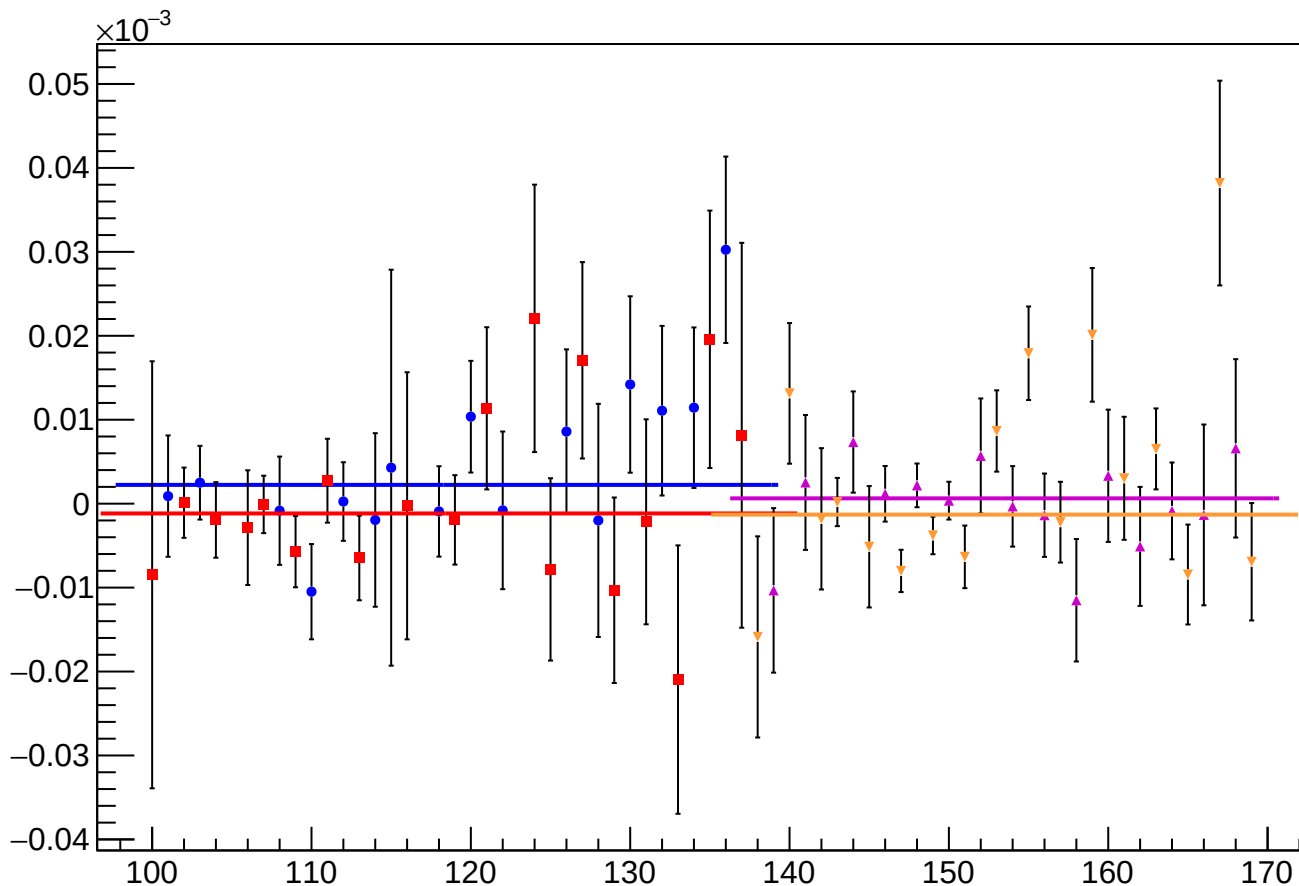
Right: 61.987+/-0.013 χ^2/NDF : 6206346.3/34

In: 81.991+/-0.015 χ^2/NDF : 7126738.9/30

Out: 84.818+/-0.015 χ^2/NDF : 6797537.0/35

All: 83.429+/-0.011 χ^2/NDF : 13942268.6/66

asym_sam4_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.4/15

Left Out: -0.000+/-0.000 χ^2/NDF : 54.1/16

Right Out: -0.000+/-0.000 χ^2/NDF : 14.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 7.6/14

Left: -0.000+/-0.000 χ^2/NDF : 63.2/31

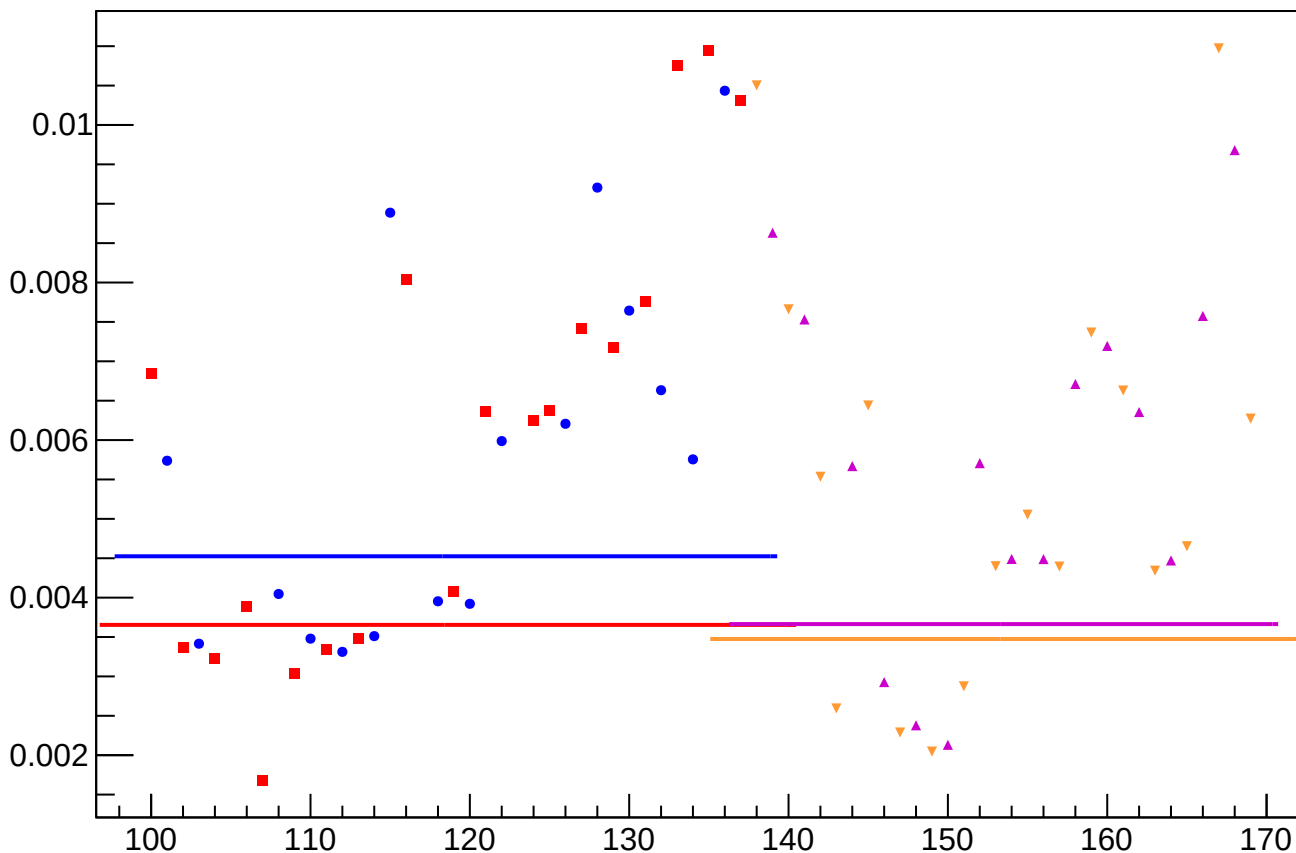
Right: 0.000+/-0.000 χ^2/NDF : 33.6/34

In: 0.000+/-0.000 χ^2/NDF : 25.6/30

Out: -0.000+/-0.000 χ^2/NDF : 68.2/35

All: -0.000+/-0.000 χ^2/NDF : 97.1/66

asym_sam4_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1721333.3/15

Left Out: 0.003+/-0.000 χ^2/NDF : 5515405.7/16

Right Out: 0.004+/-0.000 χ^2/NDF : 2933246.9/18

Left In: 0.004+/-0.000 χ^2/NDF : 4985999.1/14

Left: 0.004+/-0.000 χ^2/NDF : 10528897.1/31

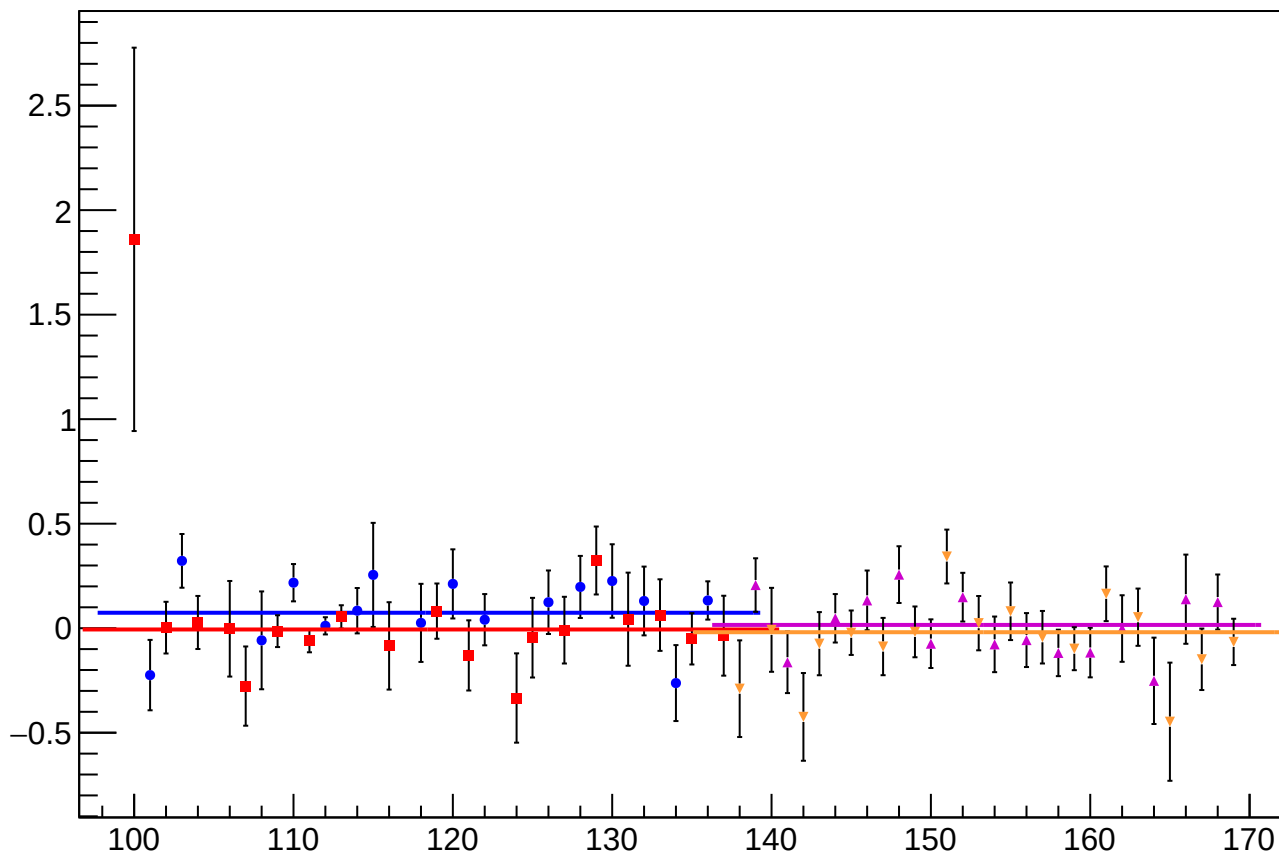
Right: 0.004+/-0.000 χ^2/NDF : 4928784.4/34

In: 0.004+/-0.000 χ^2/NDF : 7021602.3/30

Out: 0.004+/-0.000 χ^2/NDF : 8467423.9/35

All: 0.004+/-0.000 χ^2/NDF : 15661021.4/66

asym_sam4_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.074 ± 0.027 $\chi^2/\text{NDF}: 19.0/15$

Left Out: -0.019 ± 0.033 $\chi^2/\text{NDF}: 20.1/16$

Right Out: -0.006 ± 0.027 $\chi^2/\text{NDF}: 16.4/18$

Left In: 0.016 ± 0.034 $\chi^2/\text{NDF}: 15.7/14$

Left: -0.002 ± 0.024 $\chi^2/\text{NDF}: 36.4/31$

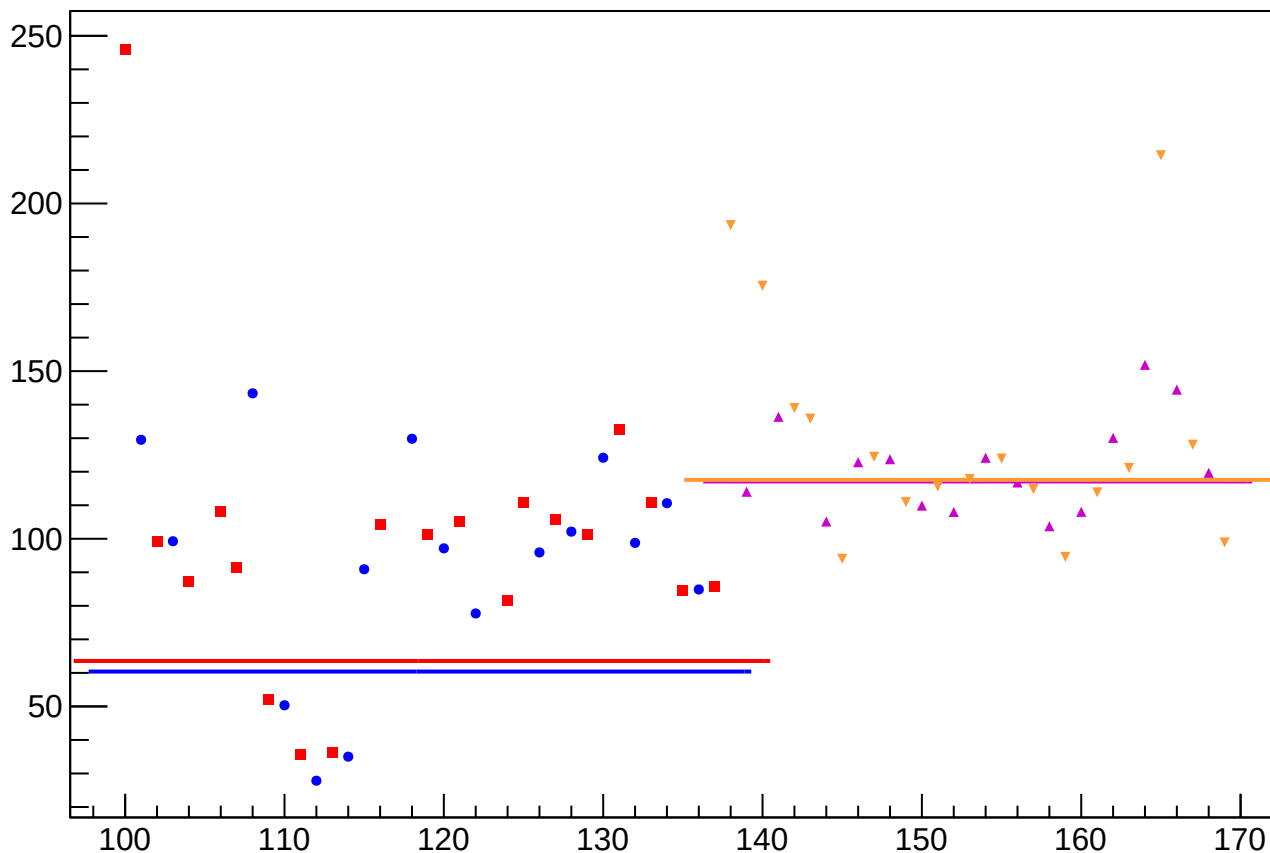
Right: 0.034 ± 0.019 $\chi^2/\text{NDF}: 39.8/34$

In: 0.052 ± 0.021 $\chi^2/\text{NDF}: 36.4/30$

Out: -0.011 ± 0.021 $\chi^2/\text{NDF}: 36.7/35$

All: 0.020 ± 0.015 $\chi^2/\text{NDF}: 77.5/66$

asym_sam4_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.399+/-0.019 χ^2/NDF : 3538382.9/15

Left Out: 117.576+/-0.024 χ^2/NDF : 951450.3/16

Right Out: 63.551+/-0.019 χ^2/NDF : 2654786.8/18

Left In: 117.081+/-0.024 χ^2/NDF : 234387.6/14

Left: 117.337+/-0.017 χ^2/NDF : 1186050.9/31

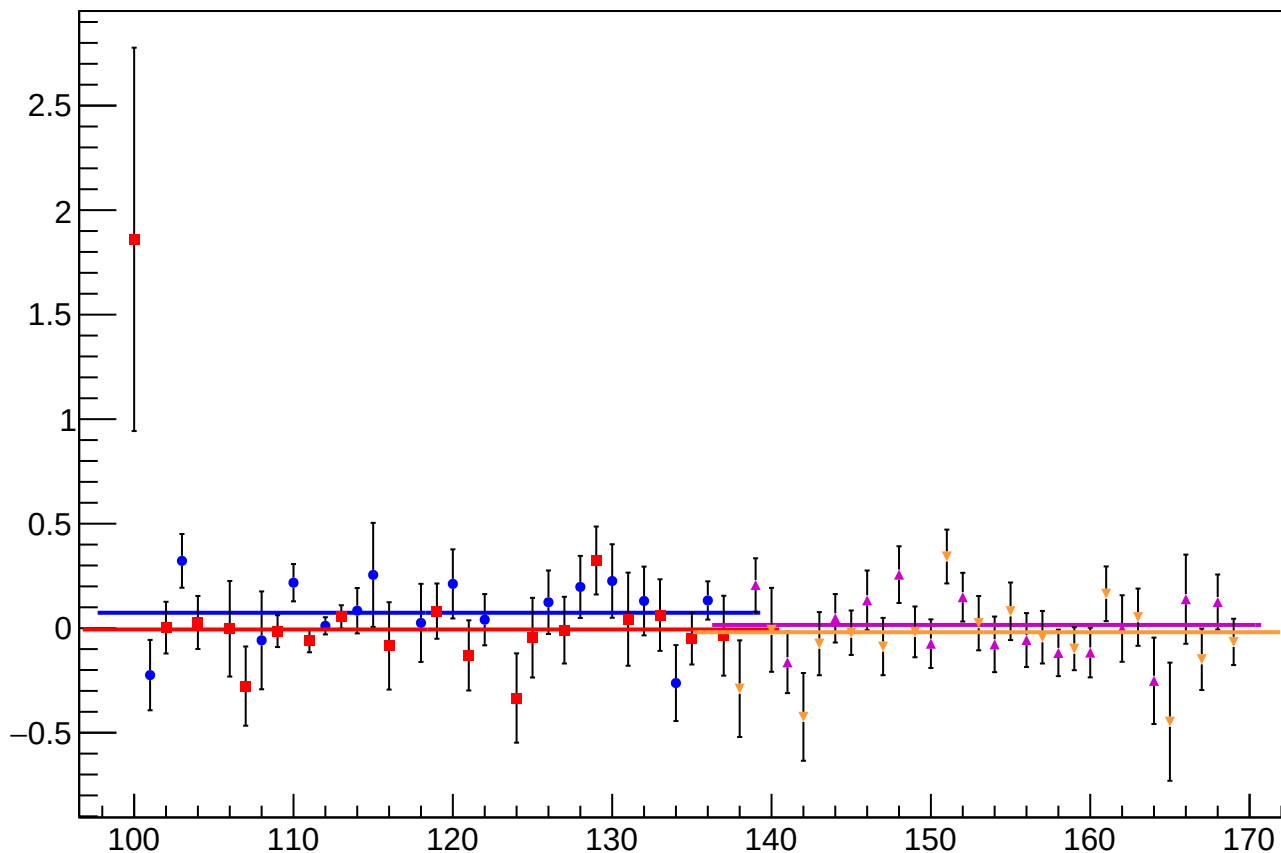
Right: 61.985+/-0.013 χ^2/NDF : 6206876.3/34

In: 81.989+/-0.015 χ^2/NDF : 7127384.5/30

Out: 84.816+/-0.015 χ^2/NDF : 6798130.3/35

All: 83.427+/-0.011 χ^2/NDF : 13943512.2/66

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.074 ± 0.027 $\chi^2/\text{NDF}: 19.0/15$

Left Out: -0.019 ± 0.033 $\chi^2/\text{NDF}: 20.1/16$

Right Out: -0.006 ± 0.027 $\chi^2/\text{NDF}: 16.4/18$

Left In: 0.016 ± 0.034 $\chi^2/\text{NDF}: 15.7/14$

Left: -0.002 ± 0.024 $\chi^2/\text{NDF}: 36.4/31$

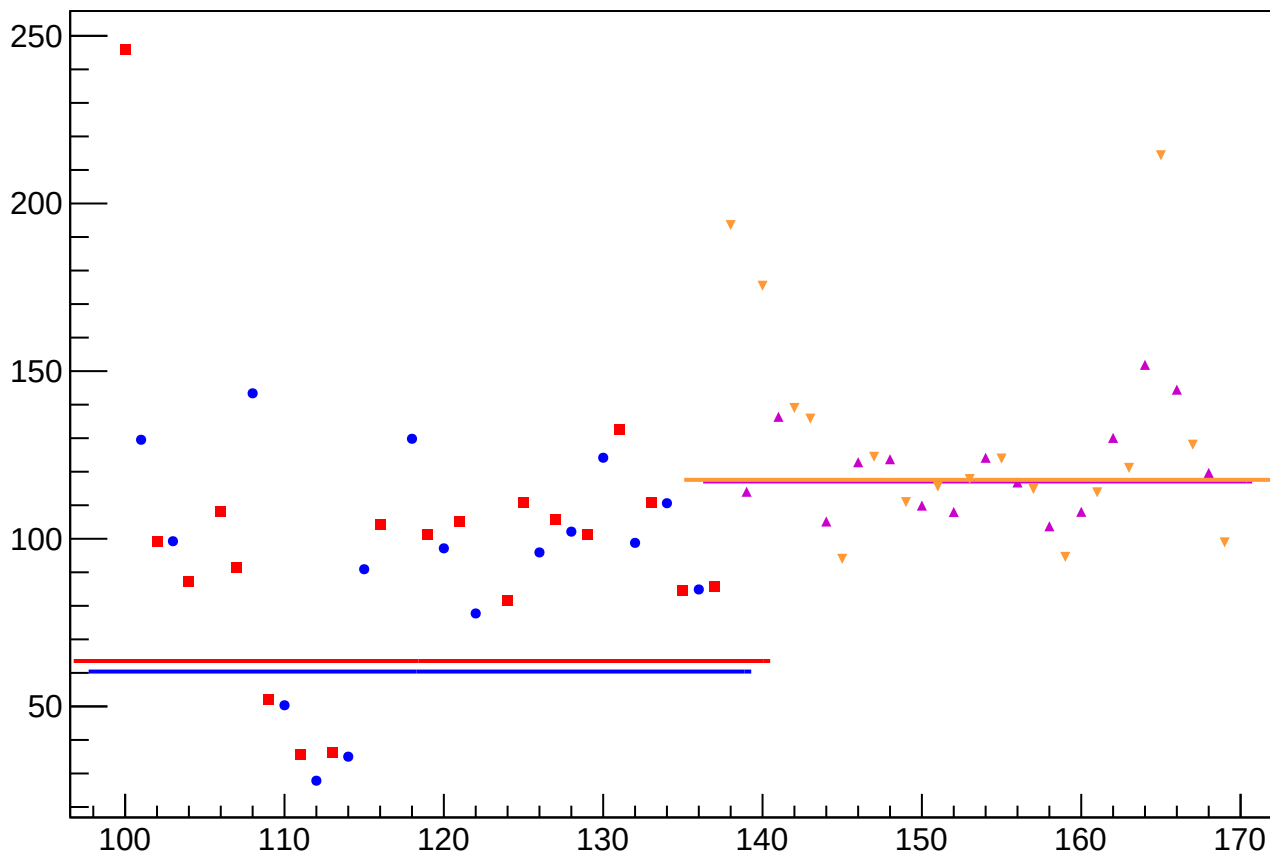
Right: 0.034 ± 0.019 $\chi^2/\text{NDF}: 39.8/34$

In: 0.052 ± 0.021 $\chi^2/\text{NDF}: 36.4/30$

Out: -0.011 ± 0.021 $\chi^2/\text{NDF}: 36.7/35$

All: 0.020 ± 0.015 $\chi^2/\text{NDF}: 77.5/66$

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 60.399+/-0.019 χ^2/NDF : 3538382.9/15

Left Out: 117.576+/-0.024 χ^2/NDF :951450.3/16

Right Out: 63.551+/-0.019 χ^2/NDF : 2654786.8/18

Left In: 117.081+/-0.024 χ^2/NDF :234387.6/14

Left: 117.337+/-0.017 χ^2/NDF : 1186050.9/31

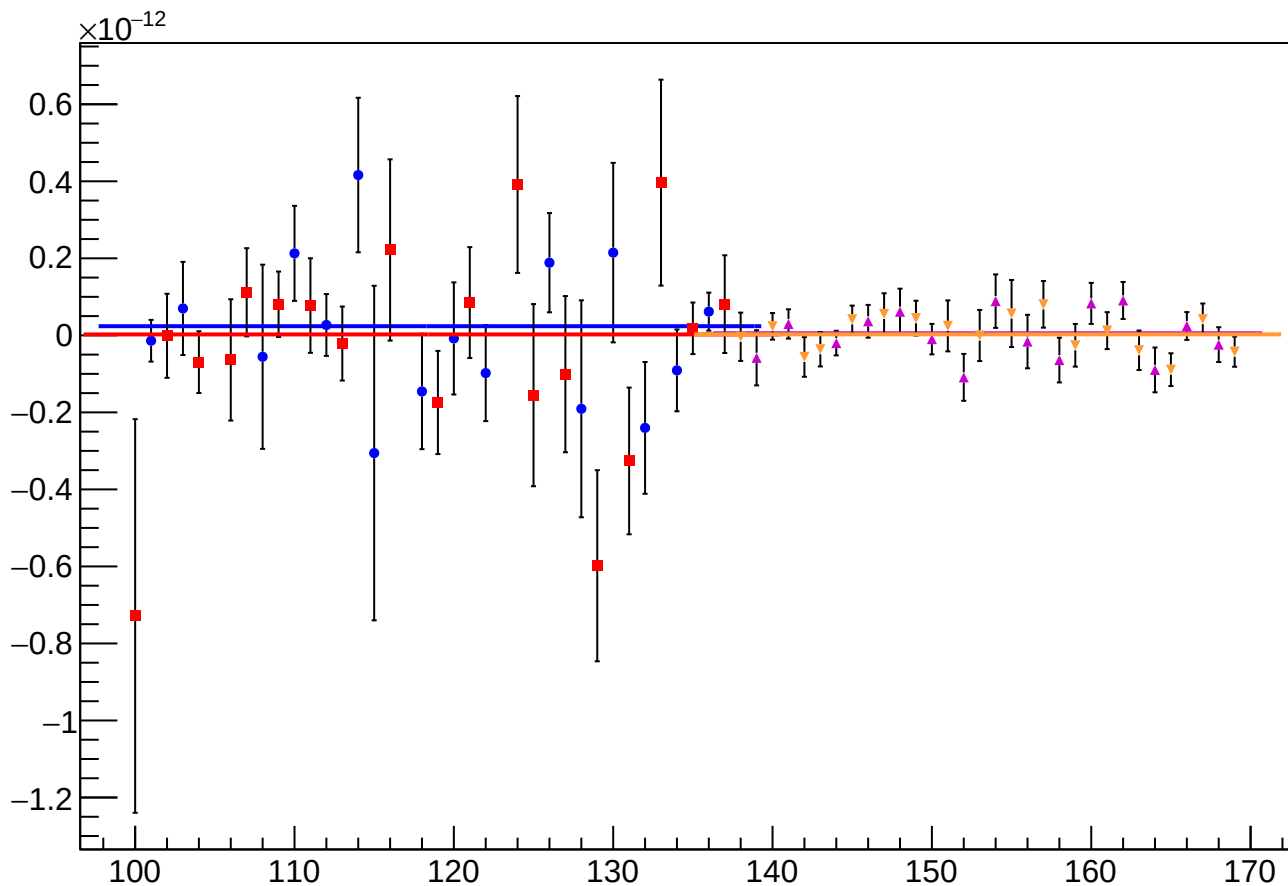
Right: 61.985+/-0.013 χ^2/NDF : 6206876.3/34

In: 81.989+/-0.015 χ^2/NDF :7127384.5/30

Out: 84.816+/-0.015 χ^2/NDF :6798130.3/35

All: 83.427+/-0.011 χ^2/NDF : 13943512.2/66

asym_sam4_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :15.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 23.2/18

Left In: 0.000+/-0.000 χ^2/NDF :18.5/14

Left: 0.000+/-0.000 χ^2/NDF : 34.0/31

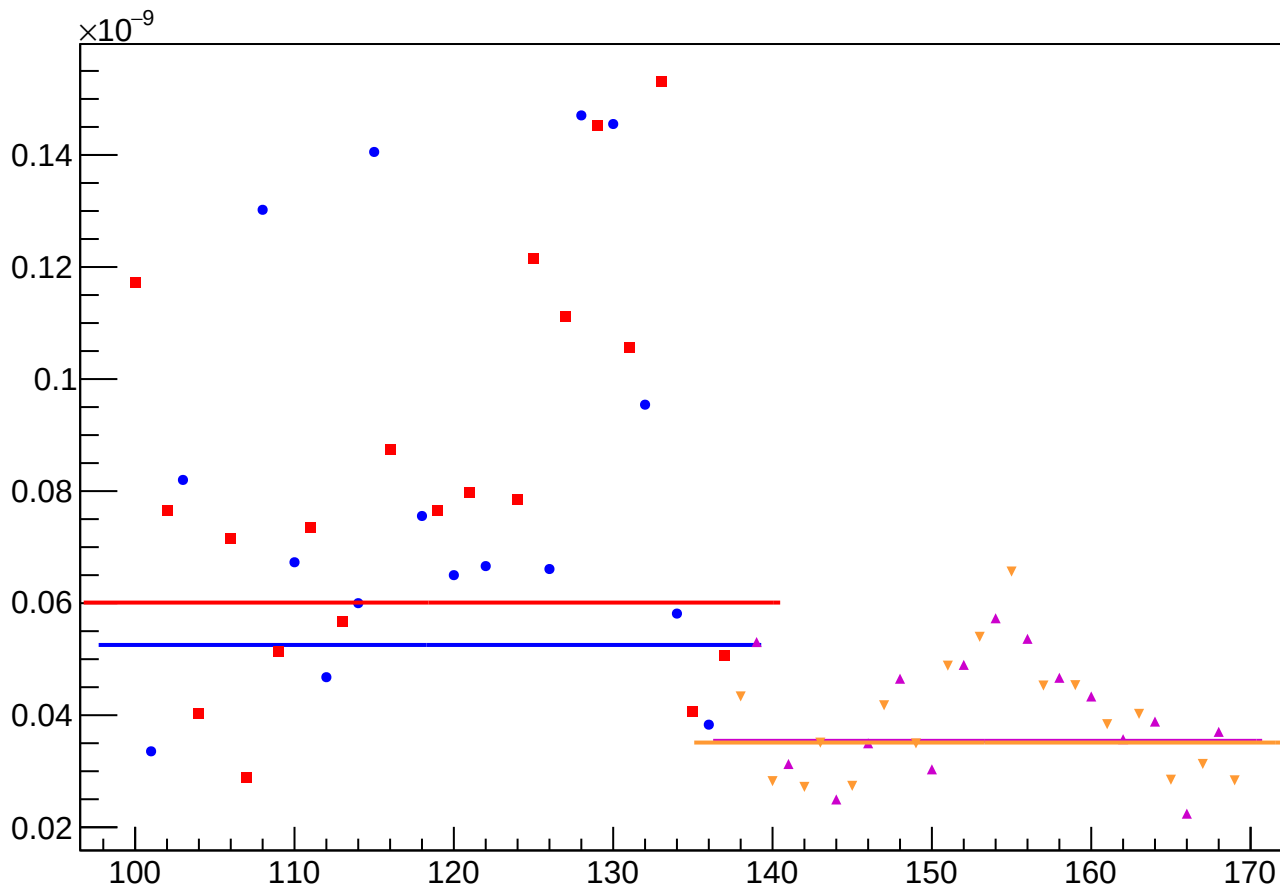
Right: 0.000+/-0.000 χ^2/NDF : 40.3/34

In: 0.000+/-0.000 χ^2/NDF :35.7/30

Out: 0.000+/-0.000 χ^2/NDF :38.7/35

All: 0.000+/-0.000 χ^2/NDF : 74.6/66

asym_sam4_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1649207.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :1059222.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1539049.5/18

Left In: 0.000+/-0.000 χ^2/NDF :1285098.9/14

Left: 0.000+/-0.000 χ^2/NDF : 2344965.5/31

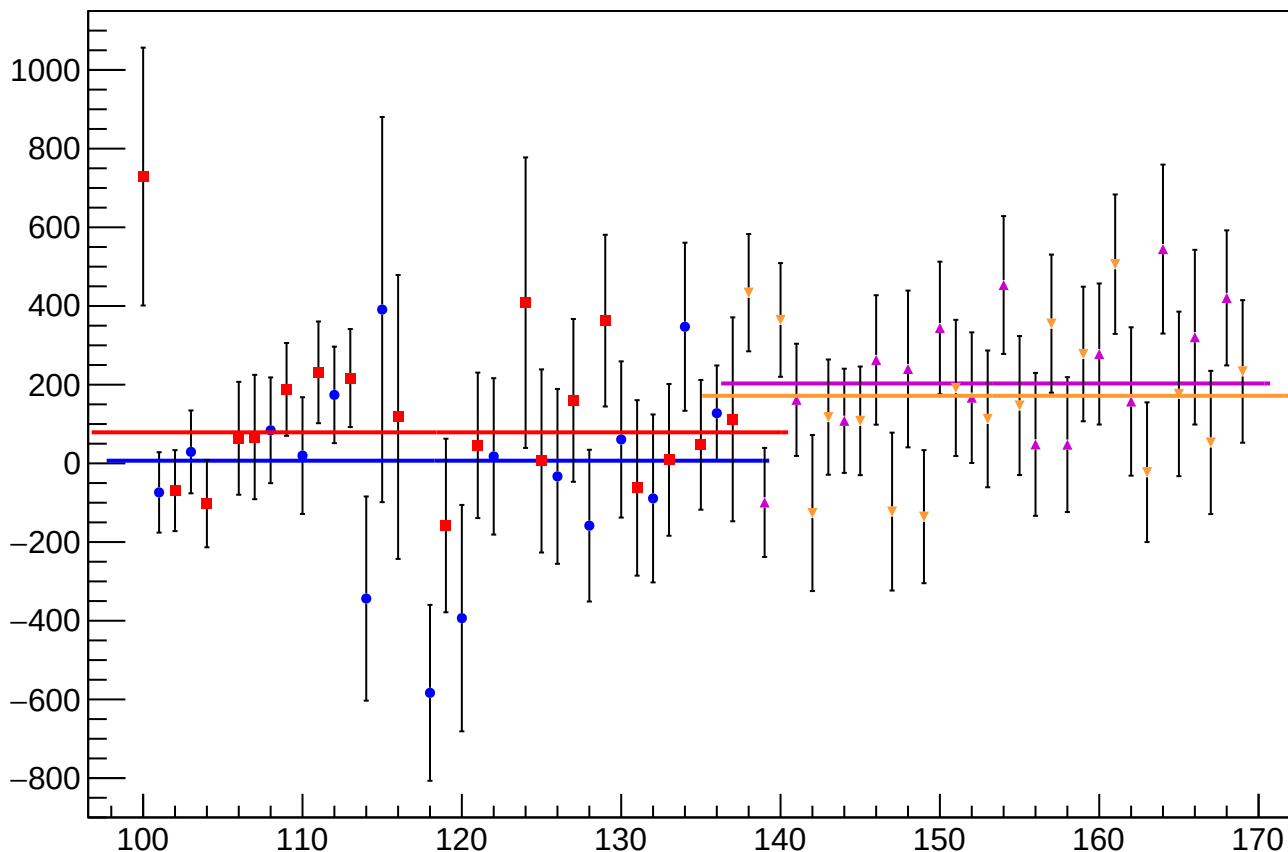
Right: 0.000+/-0.000 χ^2/NDF : 3263531.1/34

In: 0.000+/-0.000 χ^2/NDF :3634931.2/30

Out: 0.000+/-0.000 χ^2/NDF :3887368.9/35

All: 0.000+/-0.000 χ^2/NDF : 7522393.7/66

reg_asym_sam5_mean vs Slug, Sign Corrected



Right In: 6.811+/-40.353 χ^2/NDF : 18.8/15

Left Out: 171.730+/-41.188 χ^2/NDF : 19.9/16

Right Out: 78.883+/-37.906 χ^2/NDF : 16.7/18

Left In: 203.121+/-43.684 χ^2/NDF : 14.5/14

Left: 186.503+/-29.968 χ^2/NDF : 34.6/31

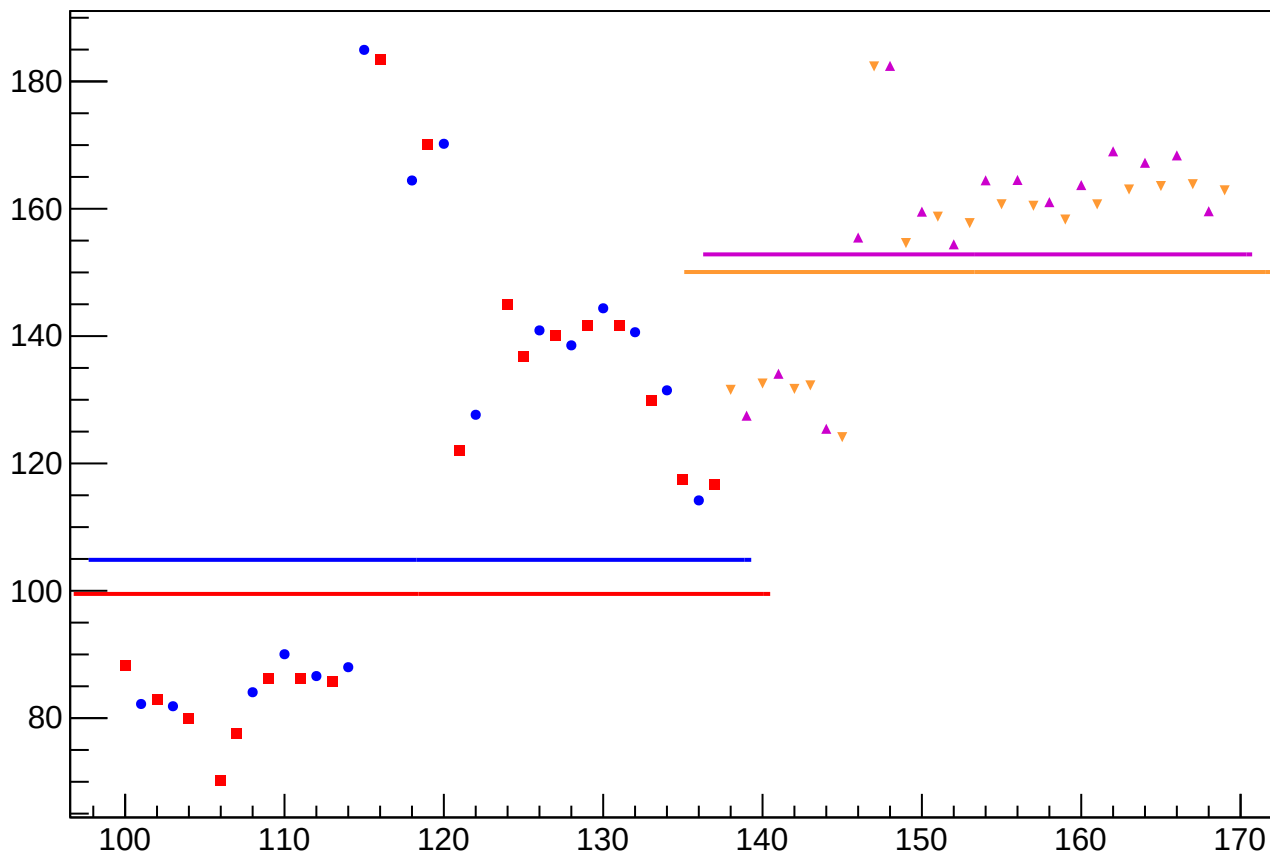
Right: 45.098+/-27.628 χ^2/NDF : 37.2/34

In: 97.197+/-29.642 χ^2/NDF : 44.2/30

Out: 121.460+/-27.892 χ^2/NDF : 39.3/35

All: 110.066+/-20.313 χ^2/NDF : 83.8/66

reg_asym_sam5_rms vs Slug, Sign Corrected



Right In: 104.860 $\pm$ 0.029 χ^2 /NDF: 931228.4/15

Left Out: 150.066 $\pm$ 0.029 χ^2 /NDF:306284.8/16

Right Out: 99.508 $\pm$ 0.027 χ^2 /NDF: 1039037.0/18

Left In: 152.835 $\pm$ 0.031 χ^2 /NDF:300700.6/14

Left: 151.369 $\pm$ 0.021 χ^2 /NDF: 611241.6/31

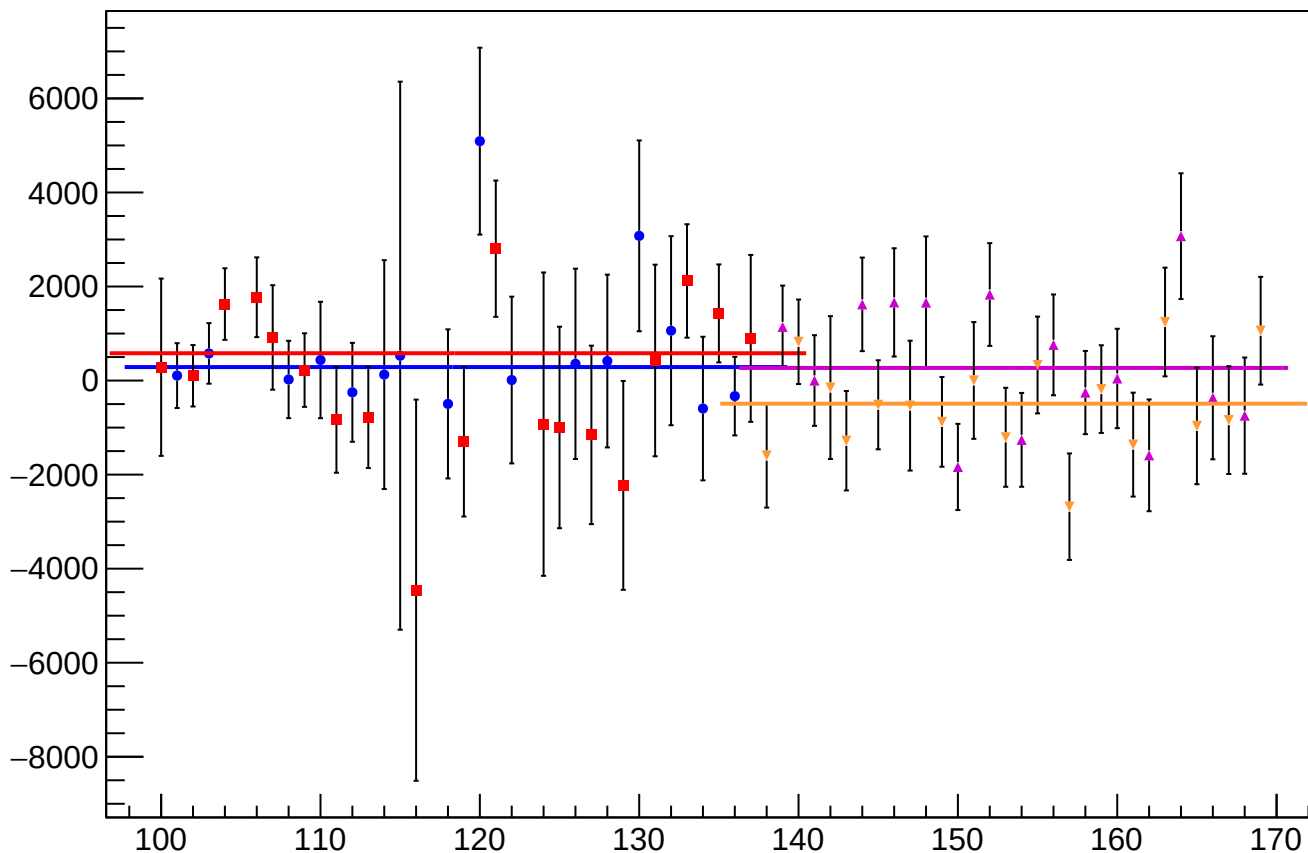
Right: 102.017 $\pm$ 0.020 χ^2 /NDF: 1988955.2/34

In: 126.949 $\pm$ 0.021 χ^2 /NDF:2533535.7/30

Out: 122.692 $\pm$ 0.020 χ^2 /NDF:2976906.4/35

All: 124.691 $\pm$ 0.014 χ^2 /NDF: 5532315.9/66

asym_sam5_reg_correction_mean vs Slug, Sign Corrected



Right In: 286.915 $\pm$ 293.474 χ^2 /NDF: 9.7/15

Left Out: -491.848 $\pm$ 264.535 χ^2 /NDF:14.0/16

Right Out: 581.217 $\pm$ 269.775 χ^2 /NDF: 18.8/18

Left In: 268.828 $\pm$ 274.944 χ^2 /NDF:23.4/14

Left: -126.182 $\pm$ 190.628 χ^2 /NDF: 41.3/31

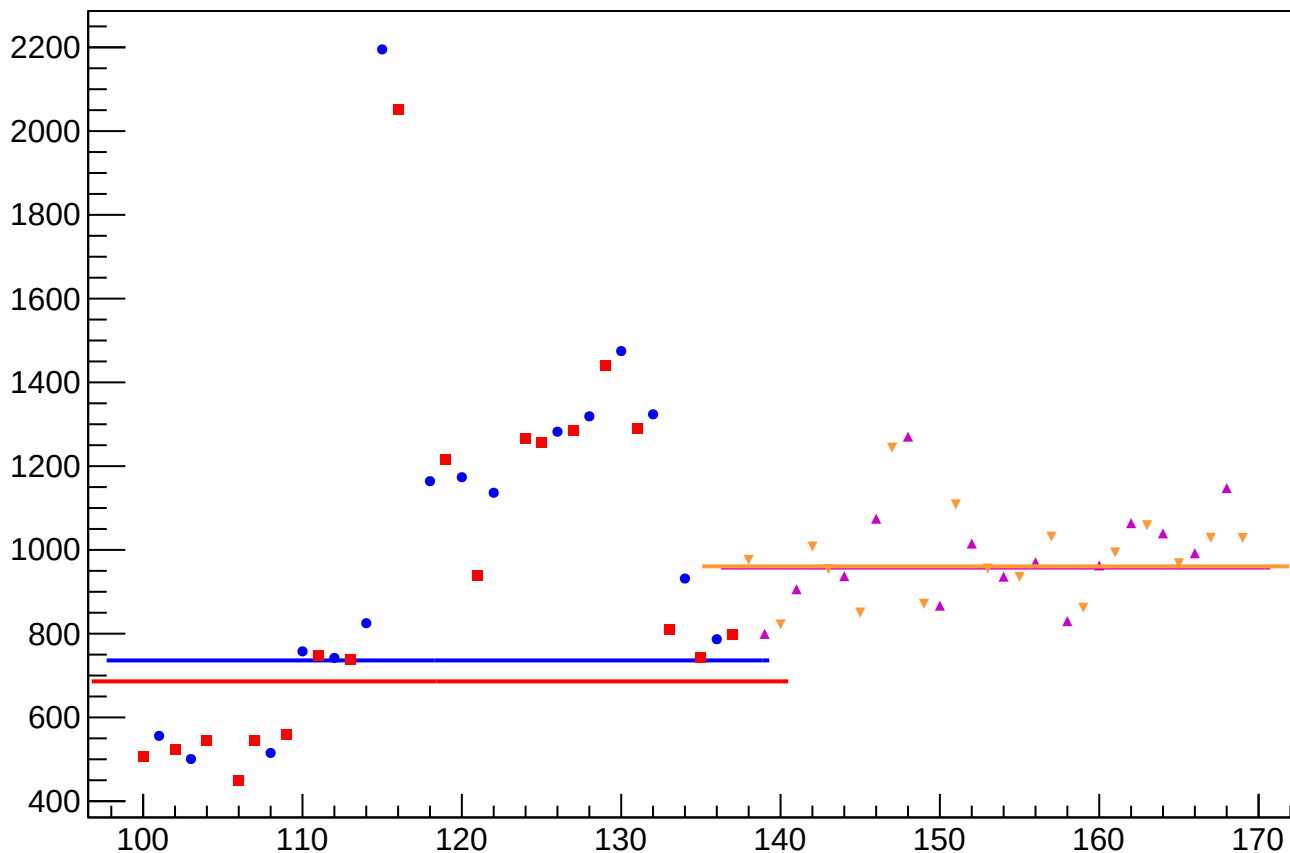
Right: 446.427 $\pm$ 198.610 χ^2 /NDF: 29.0/34

In: 277.283 $\pm$ 200.646 χ^2 /NDF:33.1/30

Out: 34.161 $\pm$ 188.880 χ^2 /NDF:40.8/35

All: 148.385 $\pm$ 137.530 χ^2 /NDF: 74.7/66

asym_sam5_reg_correction_rms vs Slug, Sign Corrected



Right In: 736.084 $\pm$ 0.208 χ^2 /NDF: 1844496.2/15

Left Out: 960.755 $\pm$ 0.187 χ^2 /NDF: 269464.0/16

Right Out: 686.108 $\pm$ 0.191 χ^2 /NDF: 1819176.0/18

Left In: 957.791 $\pm$ 0.194 χ^2 /NDF: 331142.6/14

Left: 959.330 $\pm$ 0.135 χ^2 /NDF: 600727.3/31

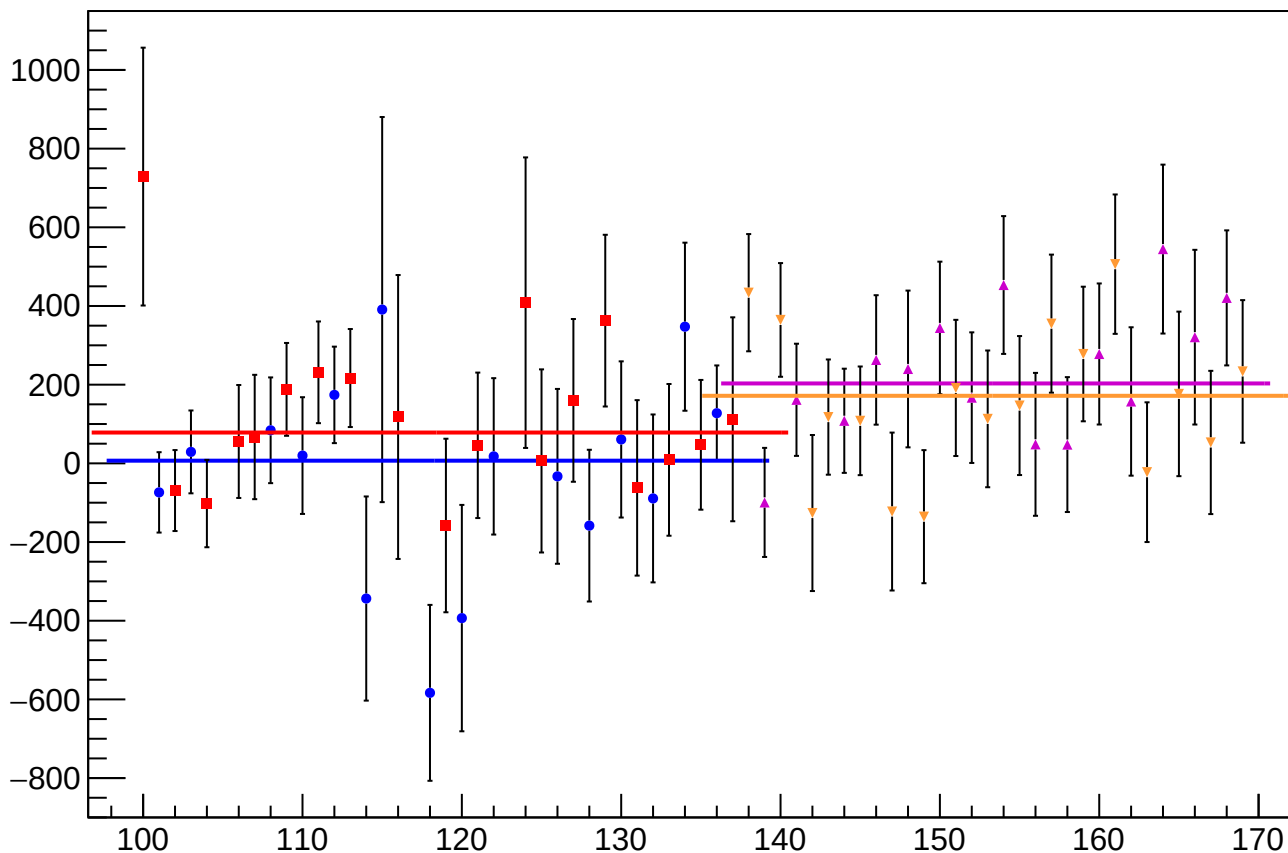
Right: 708.997 $\pm$ 0.140 χ^2 /NDF: 3695106.9/34

In: 854.157 $\pm$ 0.142 χ^2 /NDF: 2783527.2/30

Out: 826.125 $\pm$ 0.134 χ^2 /NDF: 3145414.0/35

All: 839.295 $\pm$ 0.097 χ^2 /NDF: 5949638.0/66

cor_asym_sam5_mean vs Slug, Sign Corrected



Right In: 6.799 ± 40.353 $\chi^2/\text{NDF}: 18.8/15$

Left Out: 171.729 ± 41.188 $\chi^2/\text{NDF}: 19.9/16$

Right Out: 78.347 ± 37.909 $\chi^2/\text{NDF}: 16.7/18$

Left In: 203.122 ± 43.684 $\chi^2/\text{NDF}: 14.5/14$

Left: 186.503 ± 29.968 $\chi^2/\text{NDF}: 34.6/31$

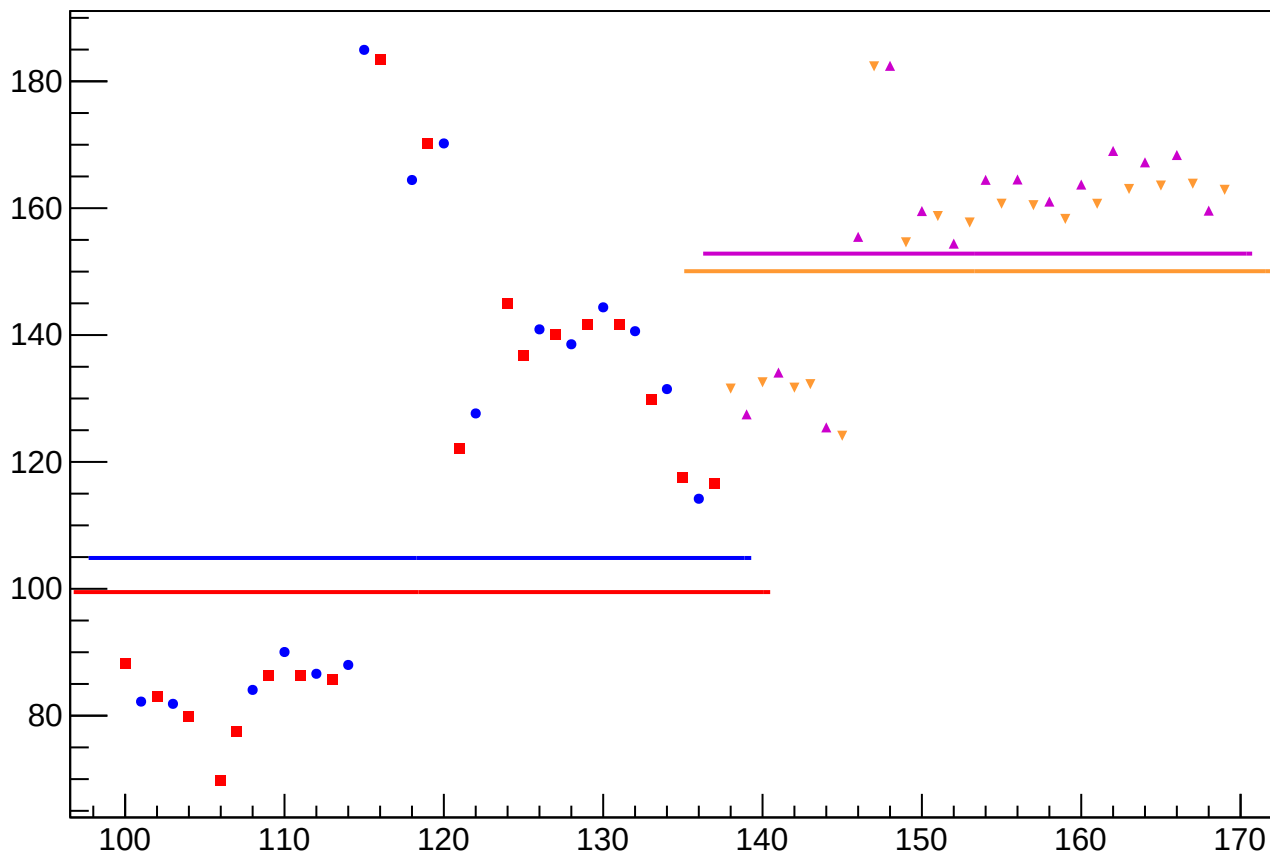
Right: 44.806 ± 27.629 $\chi^2/\text{NDF}: 37.1/34$

In: 97.191 ± 29.642 $\chi^2/\text{NDF}: 44.2/30$

Out: 121.173 ± 27.893 $\chi^2/\text{NDF}: 39.3/35$

All: 109.910 ± 20.313 $\chi^2/\text{NDF}: 83.9/66$

cor_asym_sam5_rms vs Slug, Sign Corrected



Right In: 104.860 $\pm$ 0.029 χ^2/NDF : 931227.7/15

Left Out: 150.066 $\pm$ 0.029 χ^2/NDF : 306284.8/16

Right Out: 99.484 $\pm$ 0.027 χ^2/NDF : 1041224.0/18

Left In: 152.835 $\pm$ 0.031 χ^2/NDF : 300700.6/14

Left: 151.369 $\pm$ 0.021 χ^2/NDF : 611241.6/31

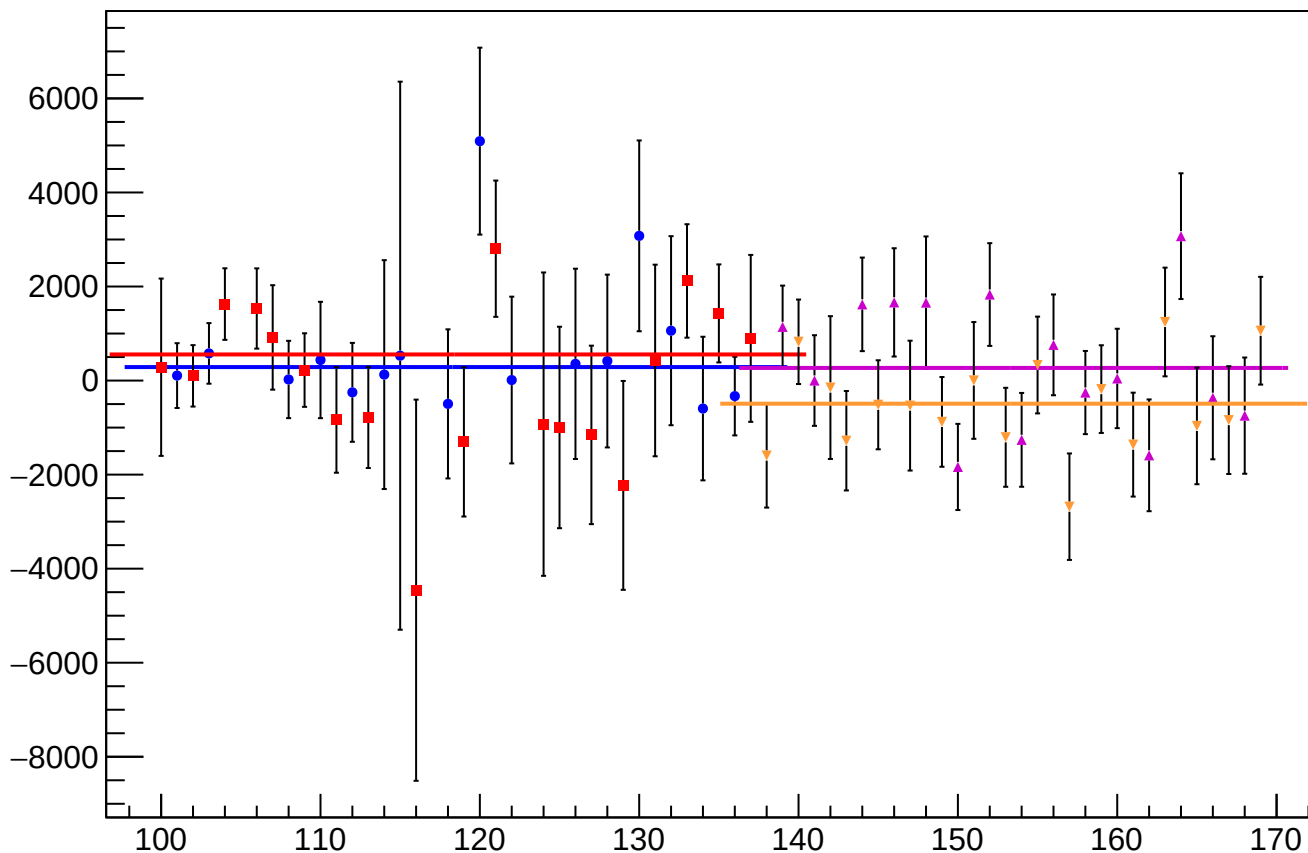
Right: 102.004 $\pm$ 0.020 χ^2/NDF : 1991307.5/34

In: 126.949 $\pm$ 0.021 χ^2/NDF : 2533534.1/30

Out: 122.681 $\pm$ 0.020 χ^2/NDF : 2980529.4/35

All: 124.685 $\pm$ 0.014 χ^2/NDF : 5536051.4/66

asym_sam5_cor_correction_mean vs Slug, Sign Corrected



Right In: 286.918 $\pm$ 293.473 χ^2 /NDF: 9.7/15

Left Out: -491.846 $\pm$ 264.535 χ^2 /NDF:14.0/16

Right Out: 555.436 $\pm$ 269.953 χ^2 /NDF: 18.0/18

Left In: 268.830 $\pm$ 274.944 χ^2 /NDF:23.4/14

Left: -126.180 $\pm$ 190.628 χ^2 /NDF: 41.3/31

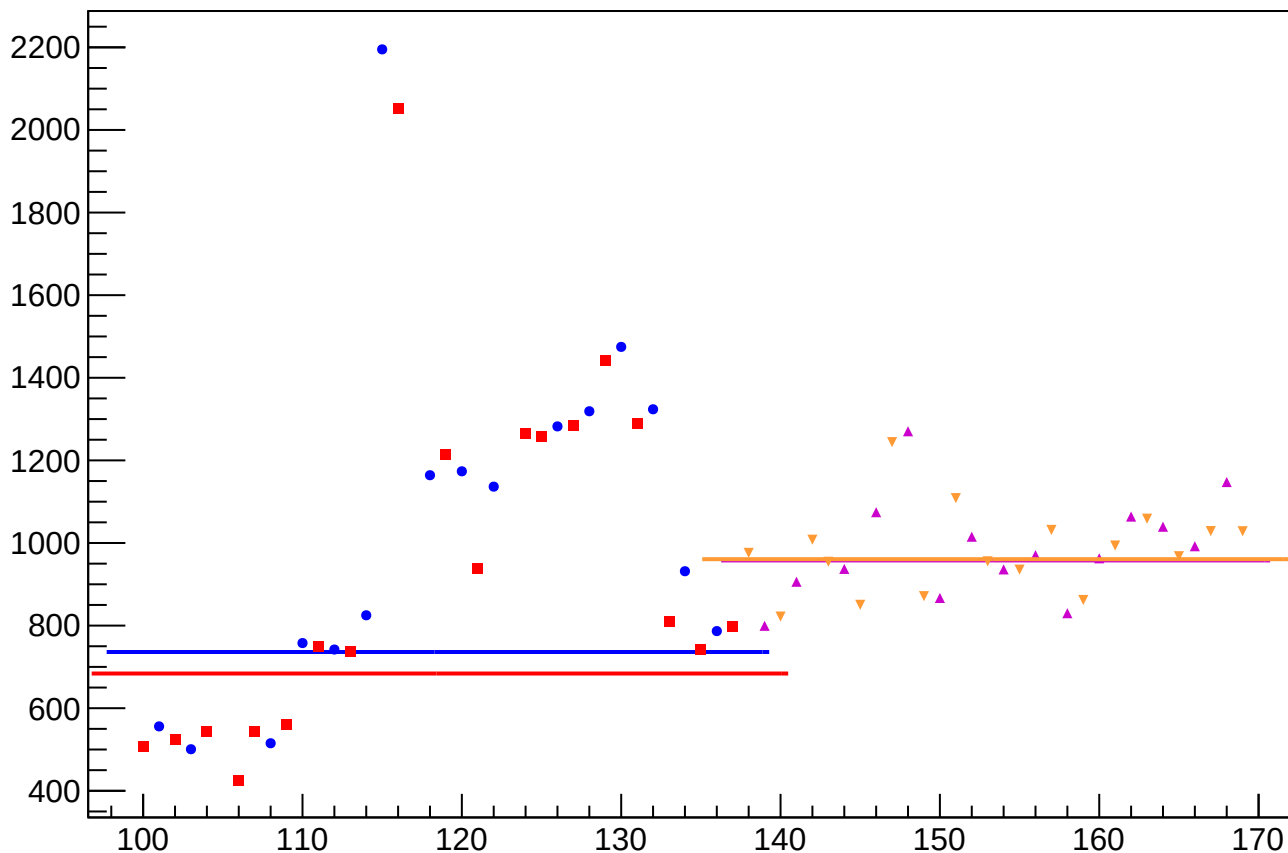
Right: 432.367 $\pm$ 198.681 χ^2 /NDF: 28.2/34

In: 277.285 $\pm$ 200.646 χ^2 /NDF:33.1/30

Out: 21.179 $\pm$ 188.941 χ^2 /NDF:39.7/35

All: 141.544 $\pm$ 137.553 χ^2 /NDF: 73.6/66

asym_sam5_cor_correction_rms vs Slug, Sign Corrected



Right In: 736.083+/-0.208 χ^2/NDF : 1844498.2/15

Left Out: 960.756+/-0.187 χ^2/NDF : 269463.6/16

Right Out: 683.981+/-0.191 χ^2/NDF : 1850402.3/18

Left In: 957.792+/-0.194 χ^2/NDF : 331144.5/14

Left: 959.331+/-0.135 χ^2/NDF : 600728.9/31

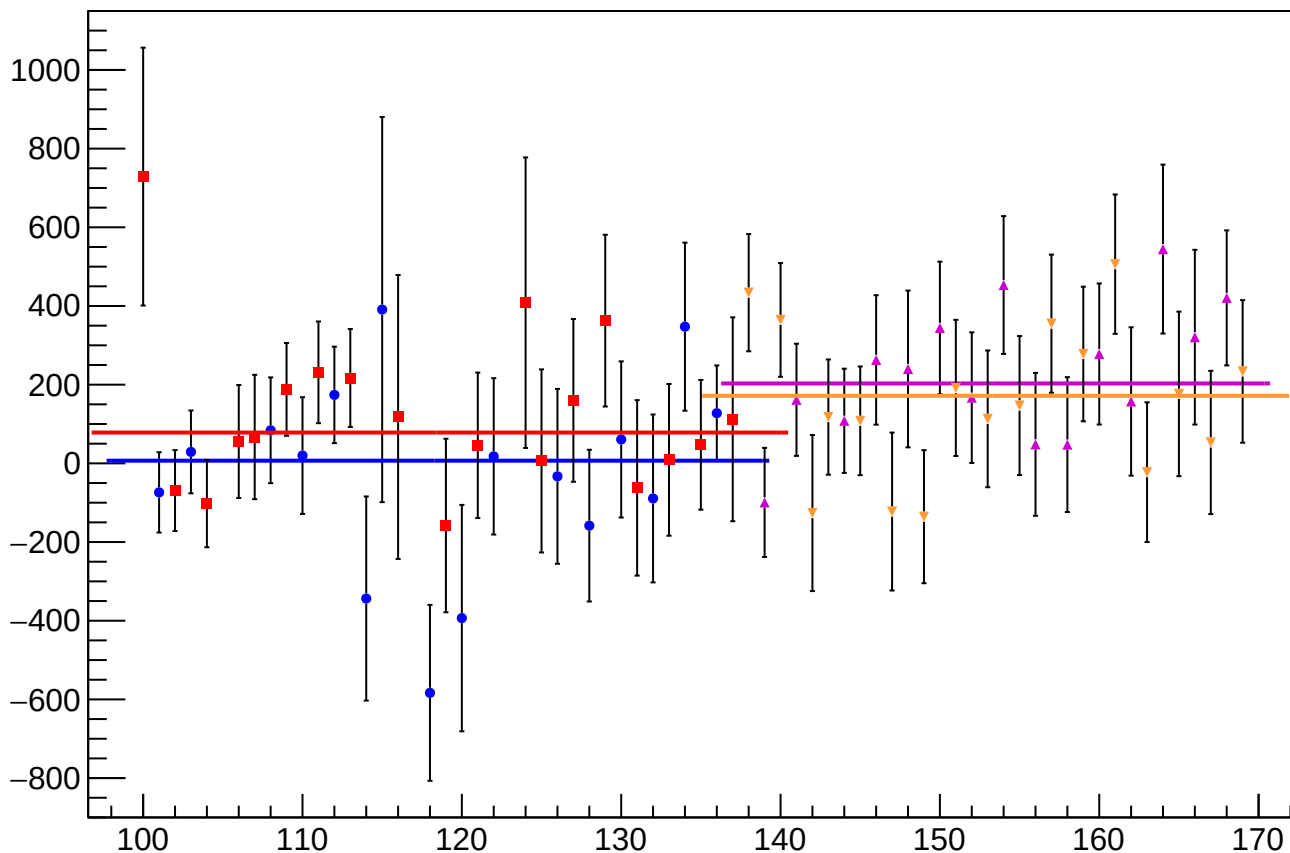
Right: 707.861+/-0.140 χ^2/NDF : 3729047.2/34

In: 854.157+/-0.142 χ^2/NDF : 2783536.5/30

Out: 825.174+/-0.134 χ^2/NDF : 3192355.7/35

All: 838.795+/-0.097 χ^2/NDF : 5998010.7/66

eigen_cor_asym_sam5_mean vs Slug, Sign Corrected



Right In: 6.799+/-40.353 χ^2/NDF : 18.8/15

Left Out: 171.729+/-41.188 χ^2/NDF :19.9/16

Right Out: 78.347+/-37.909 χ^2/NDF : 16.7/18

Left In: 203.122+/-43.684 χ^2/NDF :14.5/14

Left: 186.503+/-29.968 χ^2/NDF : 34.6/31

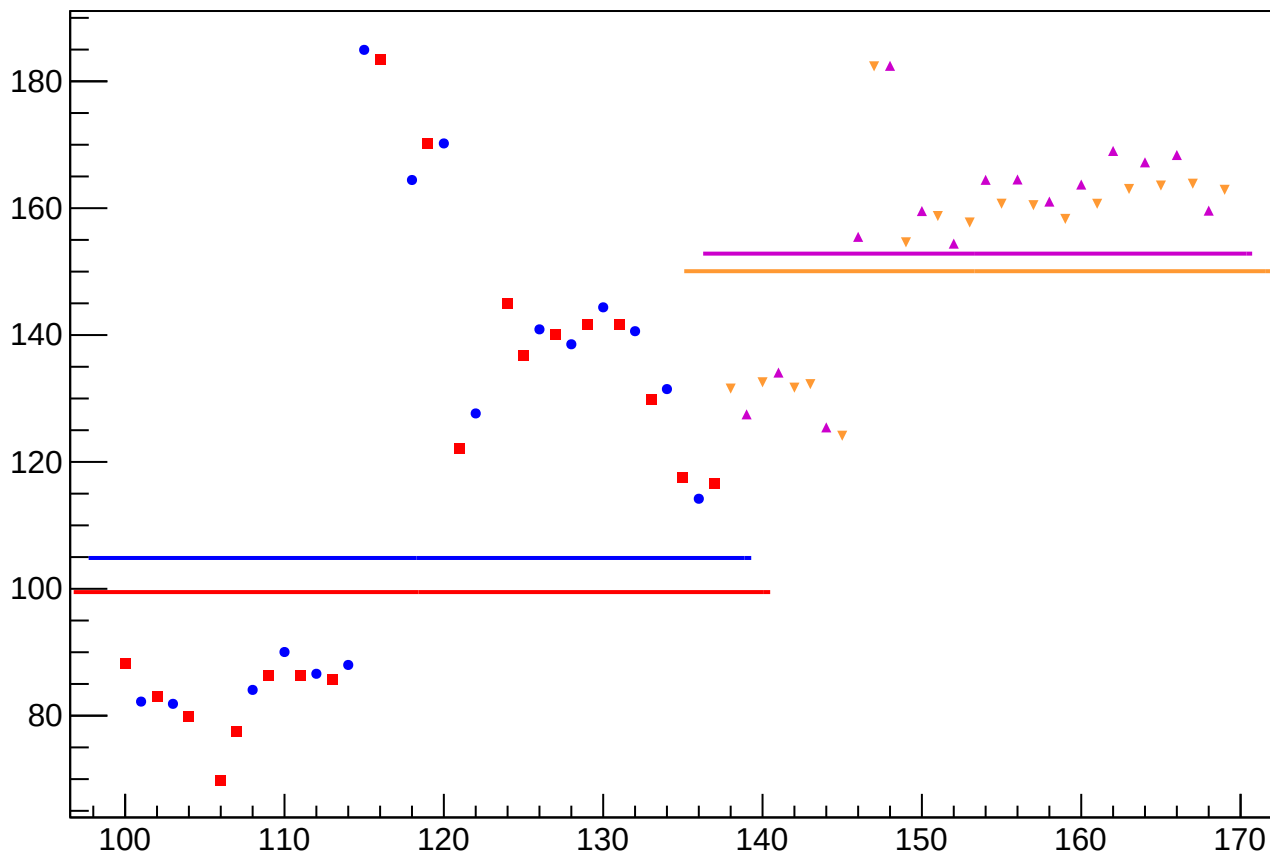
Right: 44.806+/-27.629 χ^2/NDF : 37.1/34

In: 97.191+/-29.642 χ^2/NDF :44.2/30

Out: 121.173+/-27.893 χ^2/NDF :39.3/35

All: 109.910+/-20.313 χ^2/NDF : 83.9/66

eigen_cor_asym_sam5_rms vs Slug, Sign Corrected



Right In: 104.860 +/- 0.029 χ^2/NDF : 931227.7/15

Left Out: 150.066 +/- 0.029 χ^2/NDF : 306284.8/16

Right Out: 99.484 +/- 0.027 χ^2/NDF : 1041224.0/18

Left In: 152.835 +/- 0.031 χ^2/NDF : 300700.6/14

Left: 151.369 +/- 0.021 χ^2/NDF : 611241.6/31

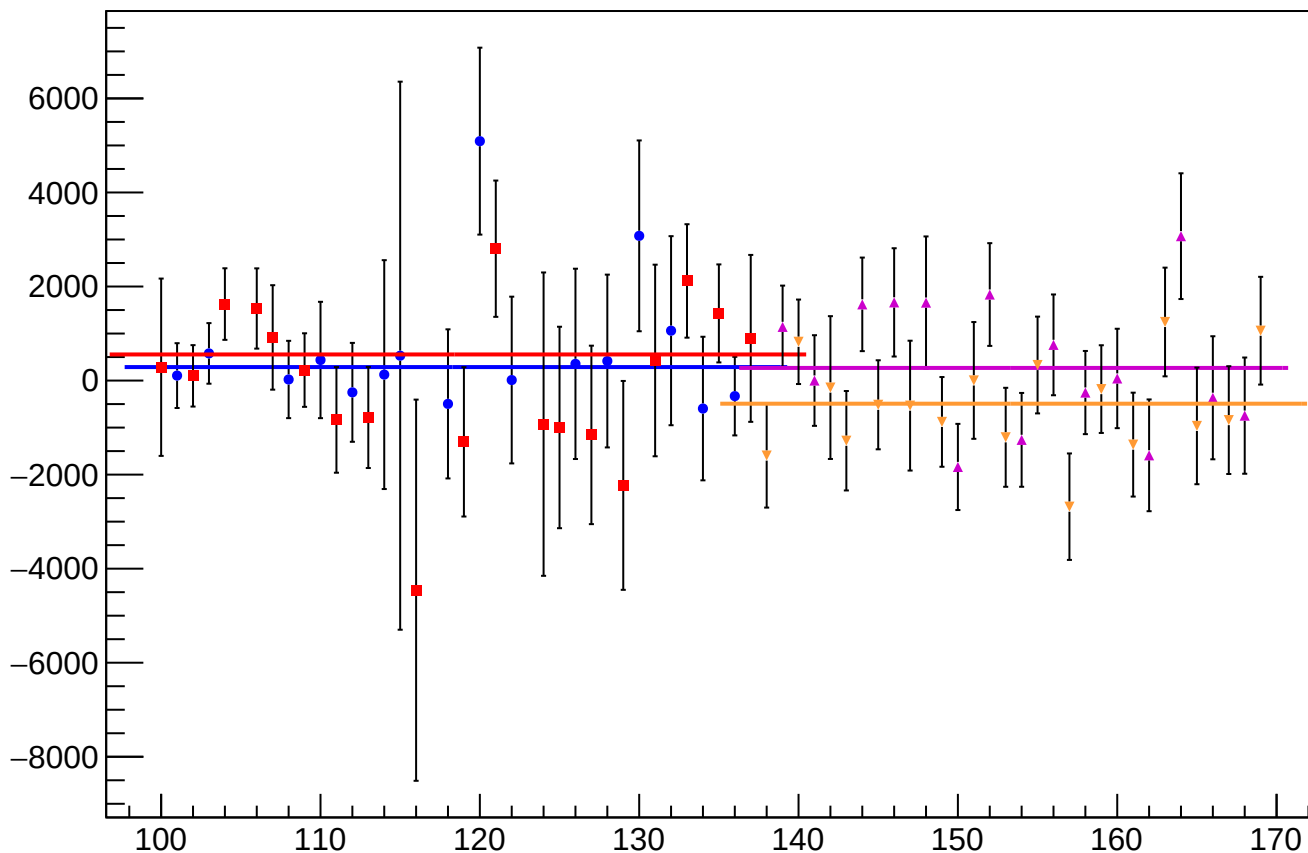
Right: 102.004 +/- 0.020 χ^2/NDF : 1991307.5/34

In: 126.949 +/- 0.021 χ^2/NDF : 2533534.1/30

Out: 122.681 +/- 0.020 χ^2/NDF : 2980529.4/35

All: 124.685 +/- 0.014 χ^2/NDF : 5536051.4/66

asym_sam5_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 286.918 $\pm$ 293.473 χ^2 /NDF: 9.7/15

Left Out: -491.846 $\pm$ 264.535 χ^2 /NDF:14.0/16

Right Out: 555.436 $\pm$ 269.953 χ^2 /NDF: 18.0/18

Left In: 268.830 $\pm$ 274.944 χ^2 /NDF:23.4/14

Left: -126.180 $\pm$ 190.628 χ^2 /NDF: 41.3/31

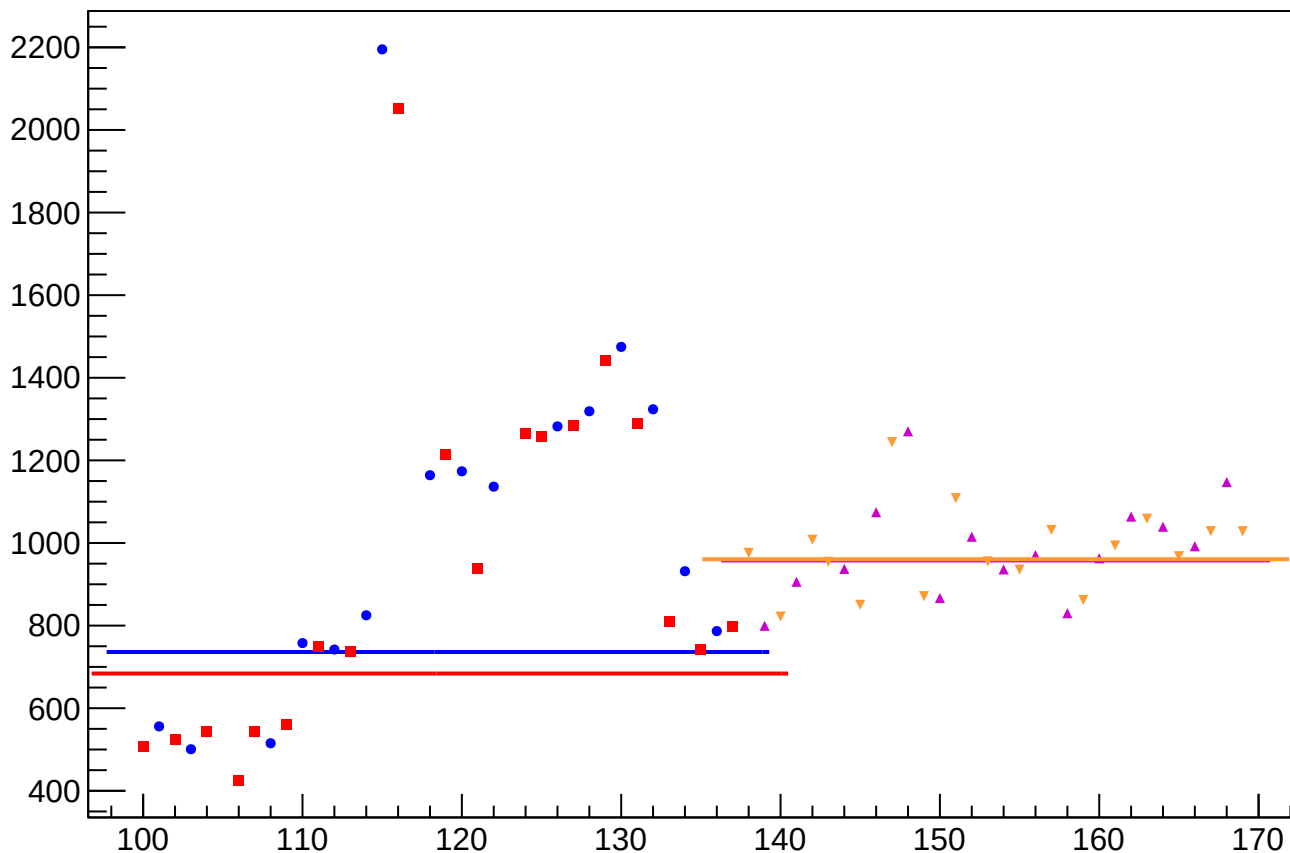
Right: 432.367 $\pm$ 198.681 χ^2 /NDF: 28.2/34

In: 277.285 $\pm$ 200.646 χ^2 /NDF:33.1/30

Out: 21.179 $\pm$ 188.941 χ^2 /NDF:39.7/35

All: 141.544 $\pm$ 137.553 χ^2 /NDF: 73.6/66

asym_sam5_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 736.083+/-0.208 χ^2/NDF : 1844498.2/15

Left Out: 960.756+/-0.187 χ^2/NDF : 269463.6/16

Right Out: 683.981+/-0.191 χ^2/NDF : 1850402.3/18

Left In: 957.792+/-0.194 χ^2/NDF : 331144.5/14

Left: 959.331+/-0.135 χ^2/NDF : 600728.9/31

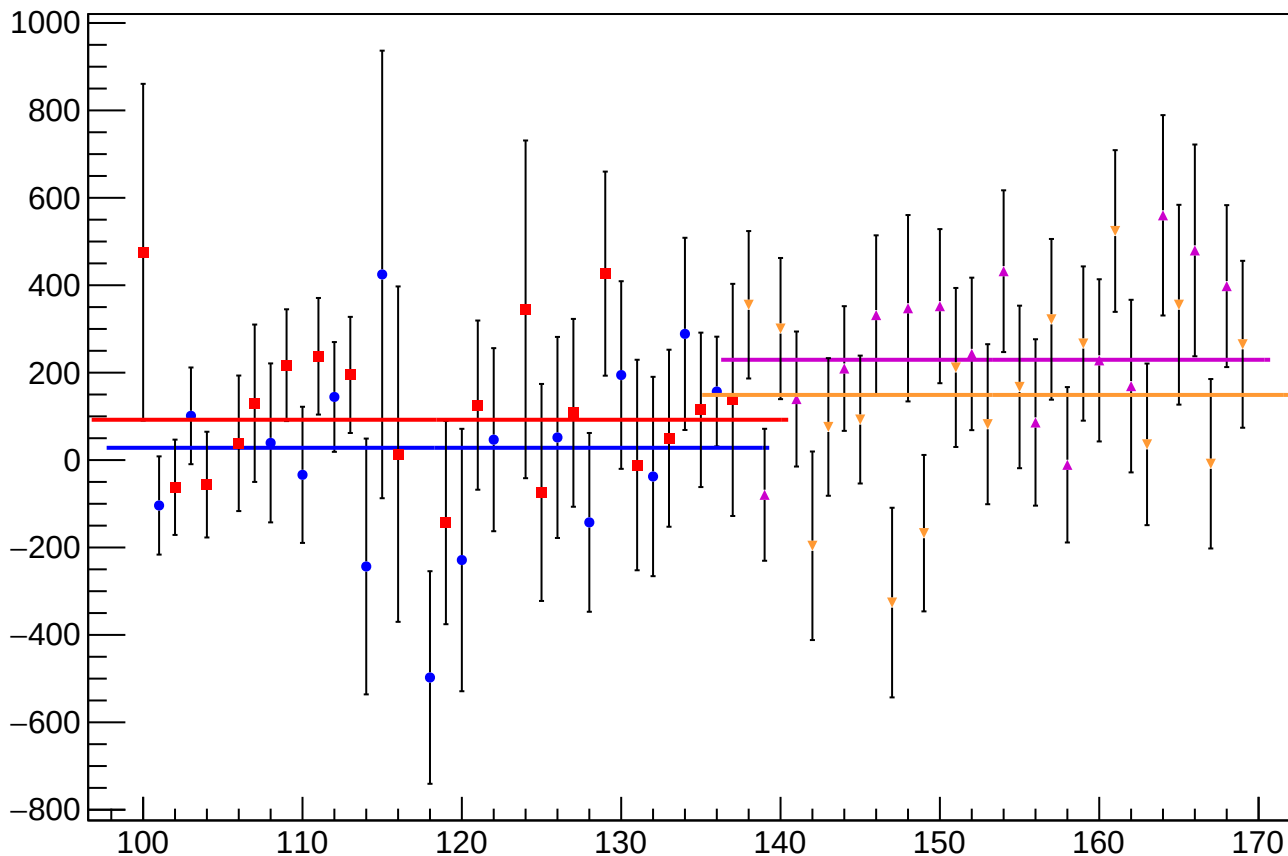
Right: 707.861+/-0.140 χ^2/NDF : 3729047.2/34

In: 854.157+/-0.142 χ^2/NDF : 2783536.5/30

Out: 825.174+/-0.134 χ^2/NDF : 3192355.7/35

All: 838.795+/-0.097 χ^2/NDF : 5998010.7/66

dit_asym_sam5_mean vs Slug, Sign Corrected



Right In: 28.094+/-43.439 χ^2/NDF : 13.6/15

Left Out: 149.055+/-43.985 χ^2/NDF : 21.1/16

Right Out: 92.247+/-40.539 χ^2/NDF : 11.7/18

Left In: 229.461+/-46.605 χ^2/NDF : 13.3/14

Left: 186.935+/-31.988 χ^2/NDF : 36.0/31

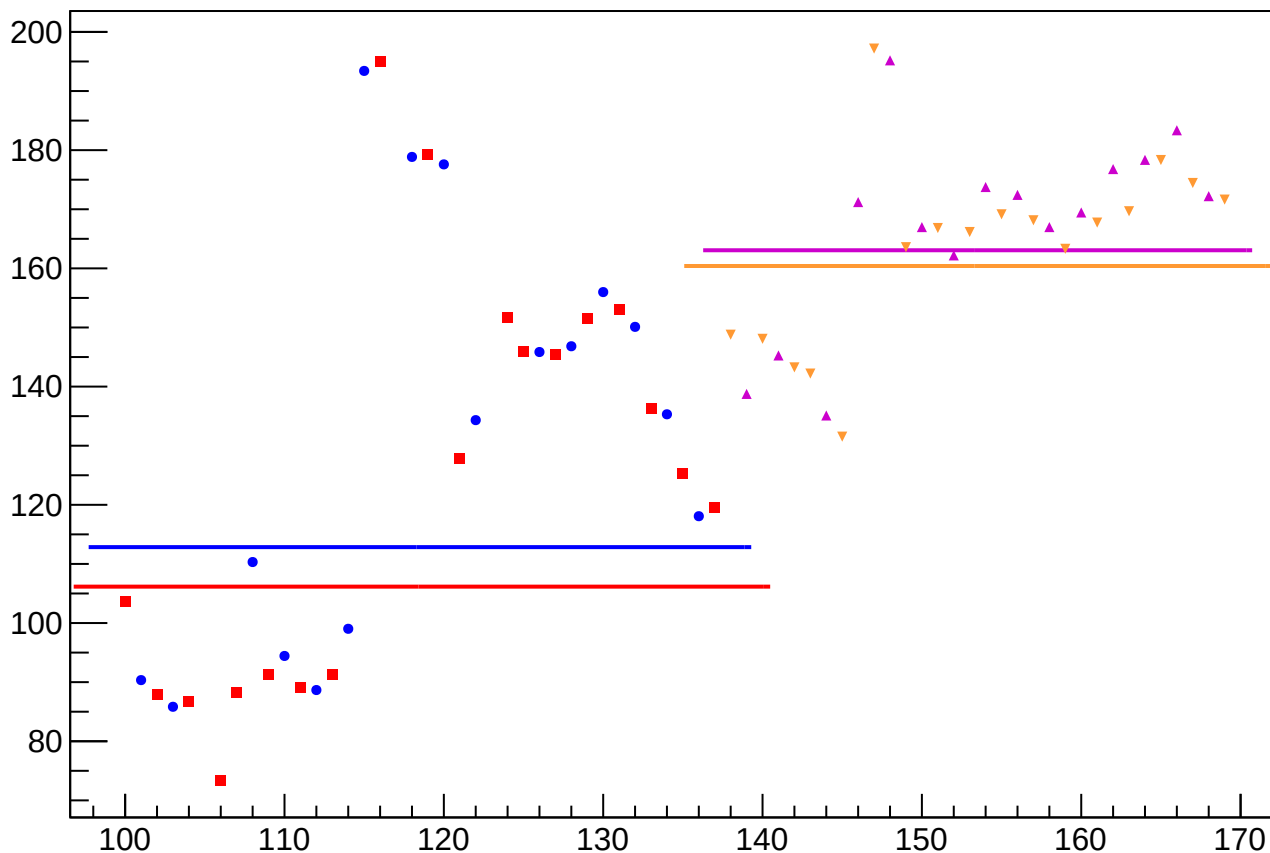
Right: 62.383+/-29.638 χ^2/NDF : 26.4/34

In: 121.706+/-31.776 χ^2/NDF : 36.9/30

Out: 118.339+/-29.809 χ^2/NDF : 33.8/35

All: 119.915+/-21.740 χ^2/NDF : 70.6/66

dit_asym_sam5_rms vs Slug, Sign Corrected



Right In: 112.843 $\pm$ 0.031 χ^2/NDF : 872225.9/15

Left Out: 160.401 $\pm$ 0.031 χ^2/NDF : 247403.1/16

Right Out: 106.159 $\pm$ 0.029 χ^2/NDF : 1002148.0/18

Left In: 163.064 $\pm$ 0.033 χ^2/NDF : 258016.2/14

Left: 161.656 $\pm$ 0.023 χ^2/NDF : 508873.4/31

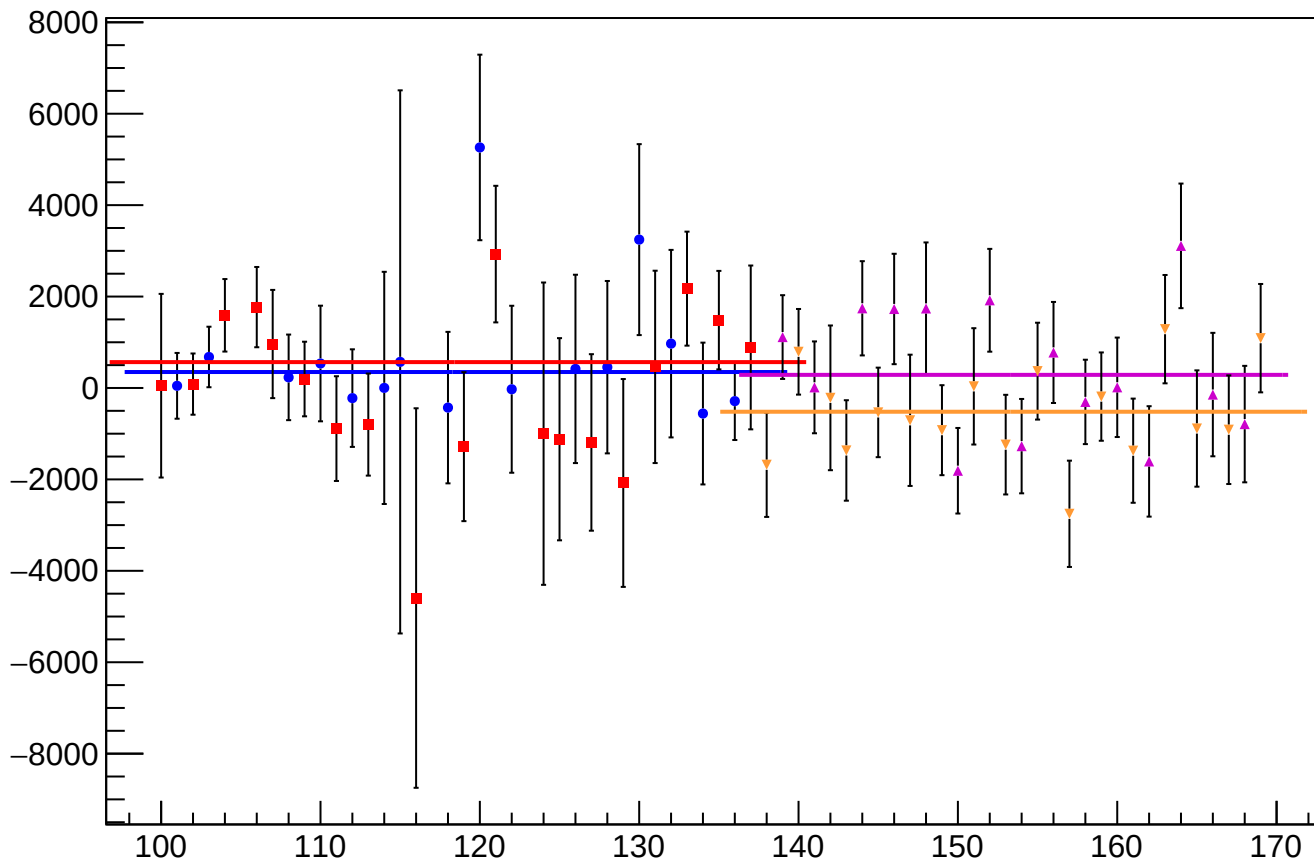
Right: 109.270 $\pm$ 0.021 χ^2/NDF : 1899683.8/34

In: 136.190 $\pm$ 0.022 χ^2/NDF : 2373026.2/30

Out: 131.072 $\pm$ 0.021 χ^2/NDF : 2894151.4/35

All: 133.468 $\pm$ 0.015 χ^2/NDF : 5294770.2/66

asym_sam5_dit_correction_mean vs Slug, Sign Corrected



Right In: 349.112 $\pm$ 305.328 χ^2 /NDF: 9.8/15

Left Out: -519.709 $\pm$ 273.435 χ^2 /NDF:13.9/16

Right Out: 566.026 $\pm$ 279.219 χ^2 /NDF: 18.3/18

Left In: 286.966 $\pm$ 284.165 χ^2 /NDF:23.0/14

Left: -131.888 $\pm$ 197.032 χ^2 /NDF: 41.0/31

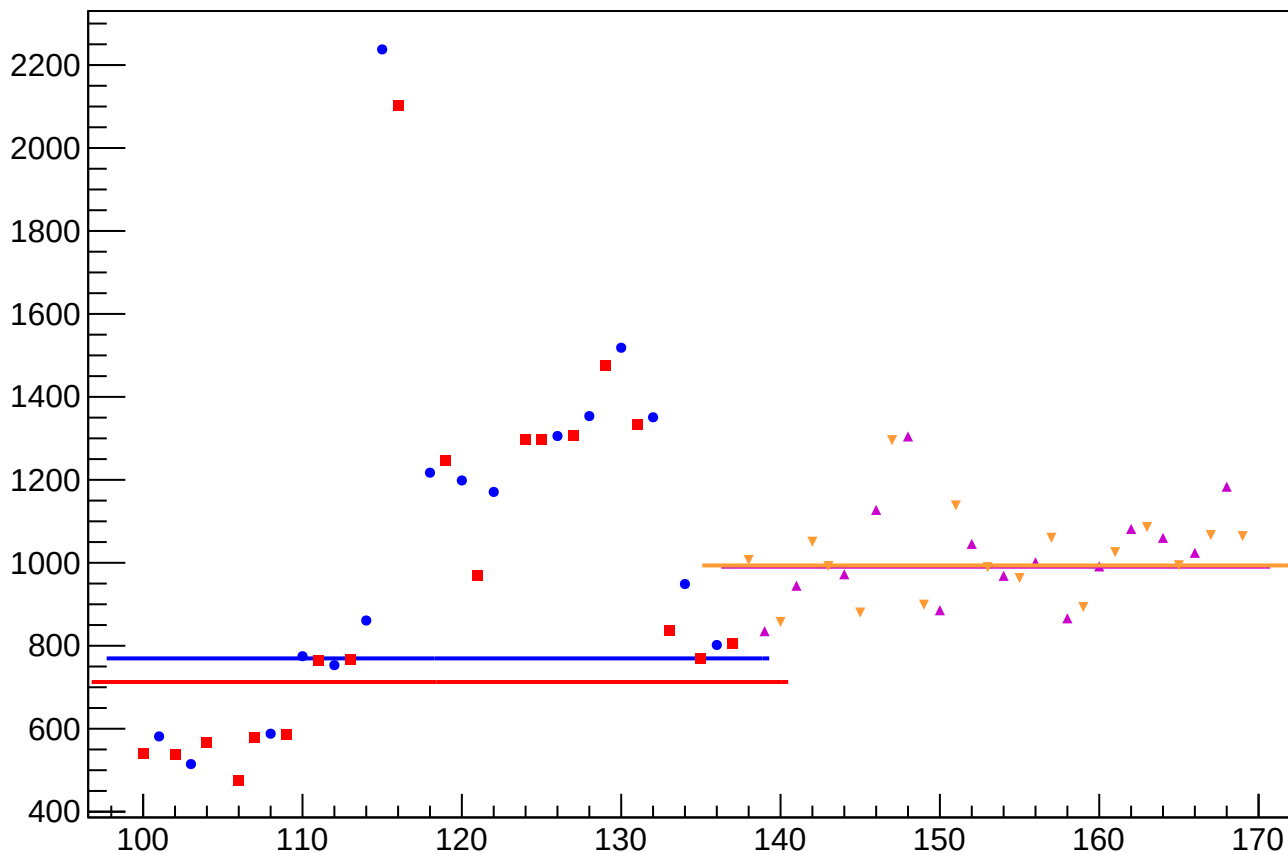
Right: 467.239 $\pm$ 206.051 χ^2 /NDF: 28.4/34

In: 315.811 $\pm$ 208.015 χ^2 /NDF:32.8/30

Out: 11.798 $\pm$ 195.361 χ^2 /NDF:39.9/35

All: 154.277 $\pm$ 142.404 χ^2 /NDF: 73.8/66

asym_sam5_dit_correction_rms vs Slug, Sign Corrected



Right In: 769.557 $\pm$ 0.216 χ^2 /NDF: 1739937.3/15

Left Out: 993.647 $\pm$ 0.193 χ^2 /NDF: 263172.9/16

Right Out: 712.628 $\pm$ 0.197 χ^2 /NDF: 1767226.6/18

Left In: 990.633 $\pm$ 0.201 χ^2 /NDF: 313645.8/14

Left: 992.198 $\pm$ 0.139 χ^2 /NDF: 576935.5/31

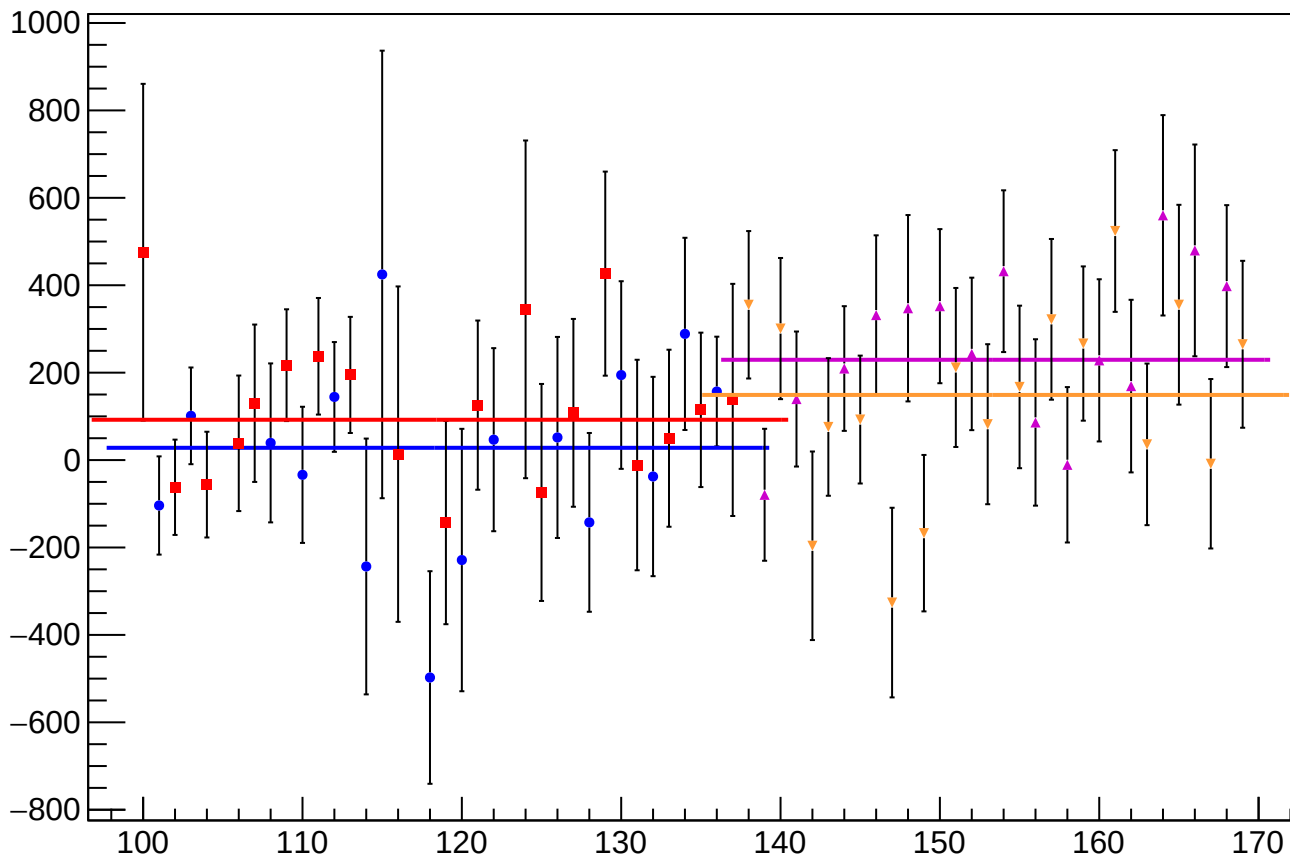
Right: 738.555 $\pm$ 0.146 χ^2 /NDF: 3545027.5/34

In: 888.022 $\pm$ 0.147 χ^2 /NDF: 2615439.8/30

Out: 856.078 $\pm$ 0.138 χ^2 /NDF: 3064529.2/35

All: 871.049 $\pm$ 0.101 χ^2 /NDF: 5705029.4/66

eigen_dit_asym_sam5_mean vs Slug, Sign Corrected



Right In: 28.093+/-43.439 χ^2/NDF : 13.6/15

Left Out: 149.056+/-43.985 χ^2/NDF : 21.1/16

Right Out: 92.247+/-40.539 χ^2/NDF : 11.7/18

Left In: 229.463+/-46.605 χ^2/NDF : 13.3/14

Left: 186.936+/-31.988 χ^2/NDF : 36.0/31

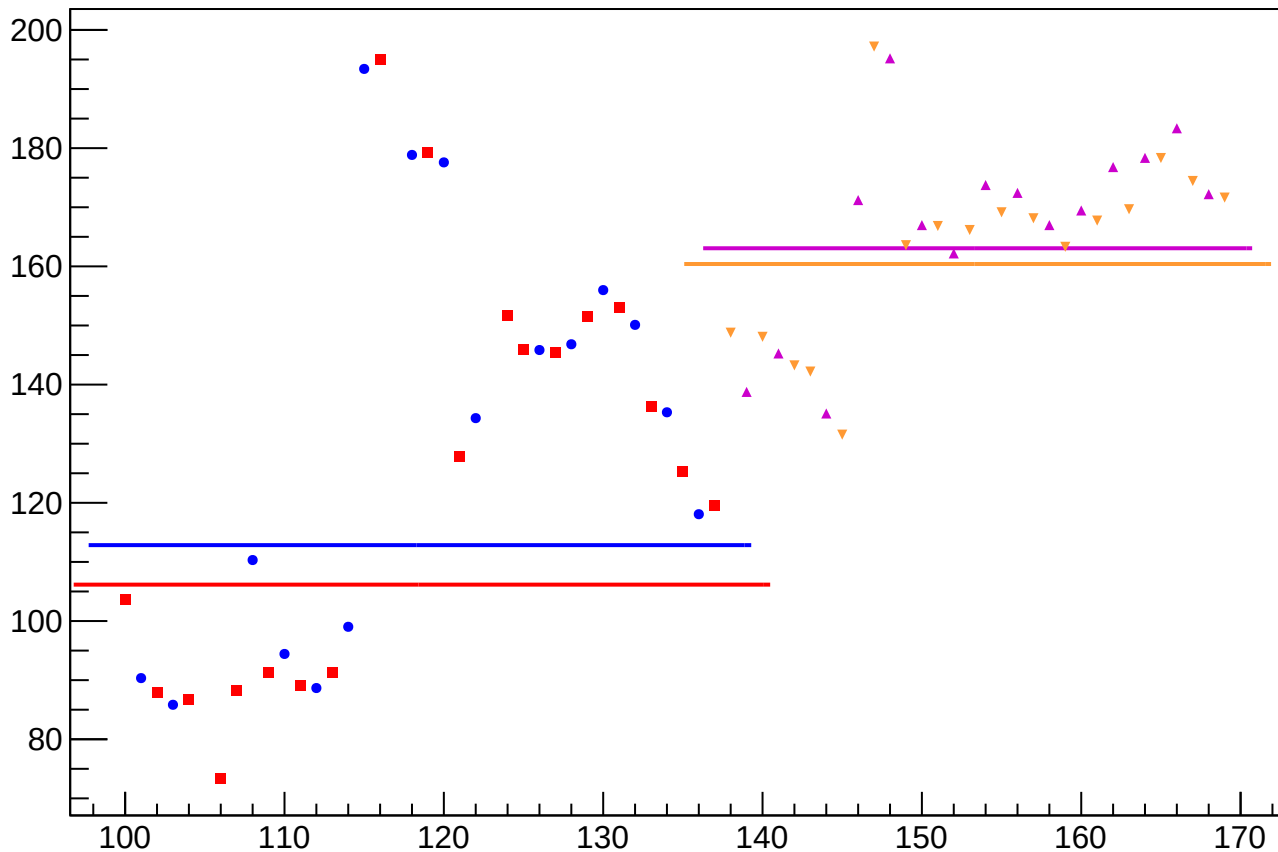
Right: 62.383+/-29.637 χ^2/NDF : 26.4/34

In: 121.706+/-31.776 χ^2/NDF : 36.9/30

Out: 118.339+/-29.809 χ^2/NDF : 33.8/35

All: 119.915+/-21.740 χ^2/NDF : 70.6/66

eigen_dit_asym_sam5_rms vs Slug, Sign Corrected



Right In: 112.842 $\pm$ 0.031 χ^2 /NDF: 872219.7/15

Left Out: 160.401 $\pm$ 0.031 χ^2 /NDF:247403.5/16

Right Out: 106.158 $\pm$ 0.029 χ^2 /NDF: 1002136.6/18

Left In: 163.064 $\pm$ 0.033 χ^2 /NDF:258010.2/14

Left: 161.656 $\pm$ 0.023 χ^2 /NDF: 508867.9/31

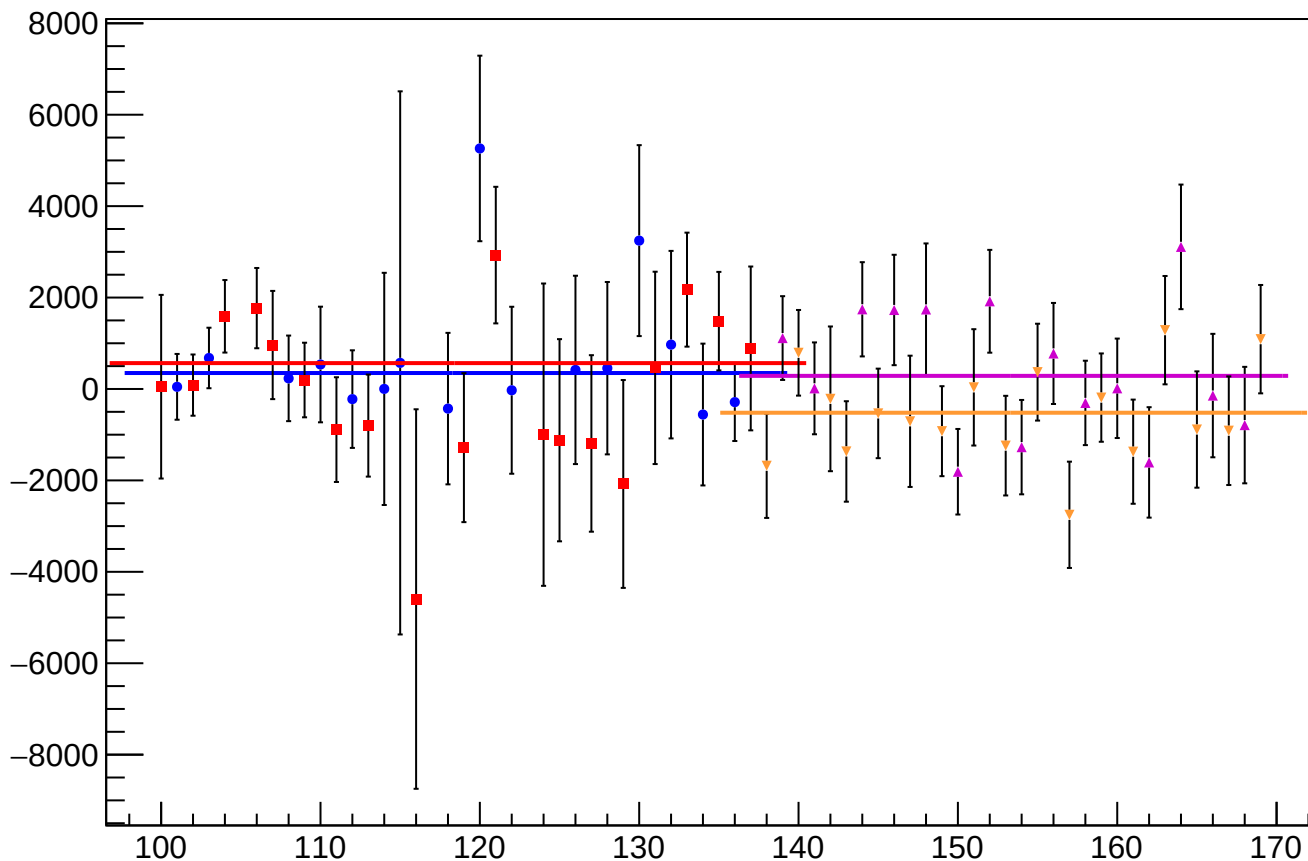
Right: 109.270 $\pm$ 0.021 χ^2 /NDF: 1899665.6/34

In: 136.190 $\pm$ 0.022 χ^2 /NDF:2373042.8/30

Out: 131.072 $\pm$ 0.021 χ^2 /NDF:2894165.6/35

All: 133.467 $\pm$ 0.015 χ^2 /NDF: 5294800.8/66

asym_sam5_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 349.111 $\pm$ 305.328 χ^2 /NDF: 9.8/15

Left Out: -519.709 $\pm$ 273.436 χ^2 /NDF:13.9/16

Right Out: 566.026 $\pm$ 279.218 χ^2 /NDF: 18.3/18

Left In: 286.966 $\pm$ 284.165 χ^2 /NDF:23.0/14

Left: -131.888 $\pm$ 197.032 χ^2 /NDF: 41.0/31

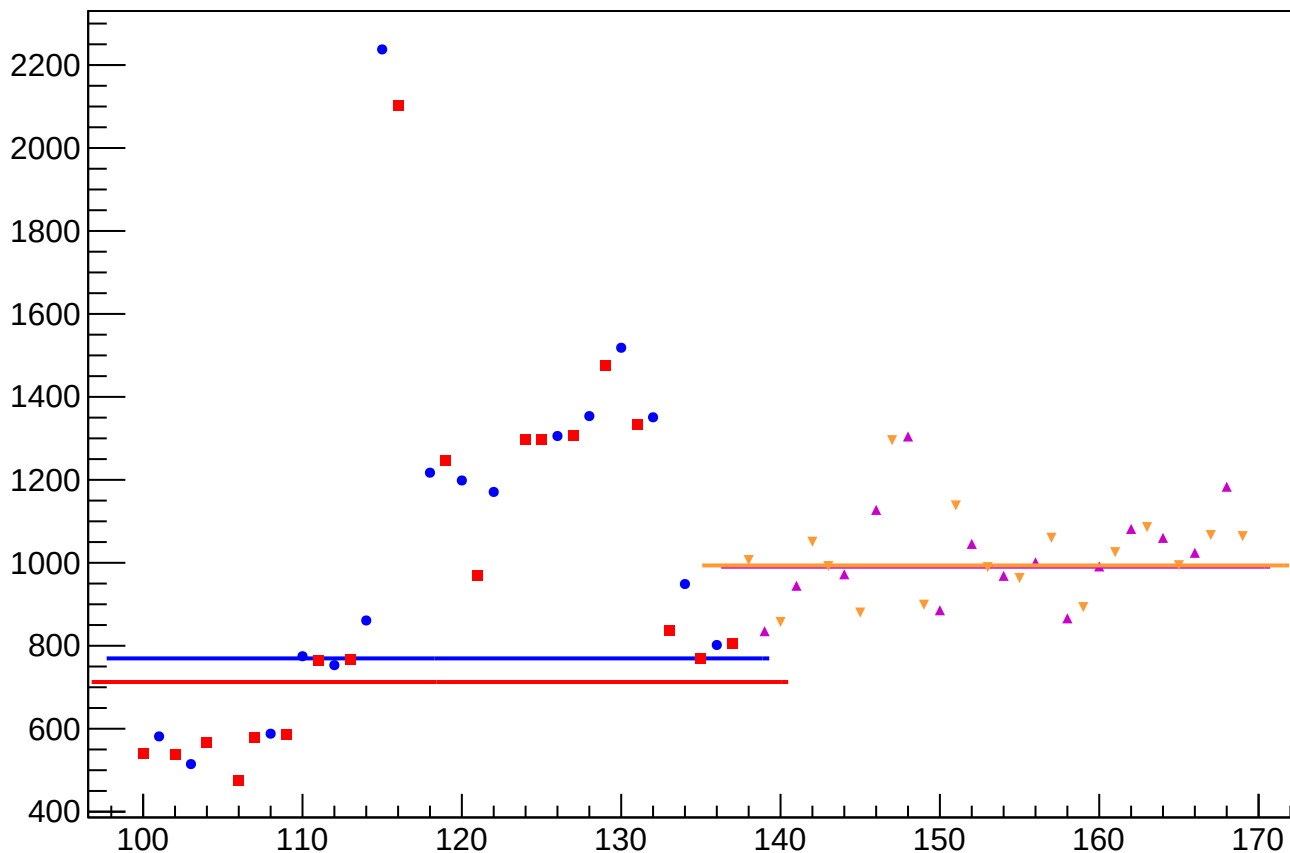
Right: 467.238 $\pm$ 206.050 χ^2 /NDF: 28.4/34

In: 315.811 $\pm$ 208.015 χ^2 /NDF:32.8/30

Out: 11.800 $\pm$ 195.361 χ^2 /NDF:39.9/35

All: 154.278 $\pm$ 142.404 χ^2 /NDF: 73.8/66

asym_sam5_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 769.556 $\pm$ 0.216 χ^2 /NDF: 1739933.9/15

Left Out: 993.648 $\pm$ 0.193 χ^2 /NDF: 263172.9/16

Right Out: 712.627 $\pm$ 0.197 χ^2 /NDF: 1767219.7/18

Left In: 990.634 $\pm$ 0.201 χ^2 /NDF: 313644.8/14

Left: 992.199 $\pm$ 0.139 χ^2 /NDF: 576934.5/31

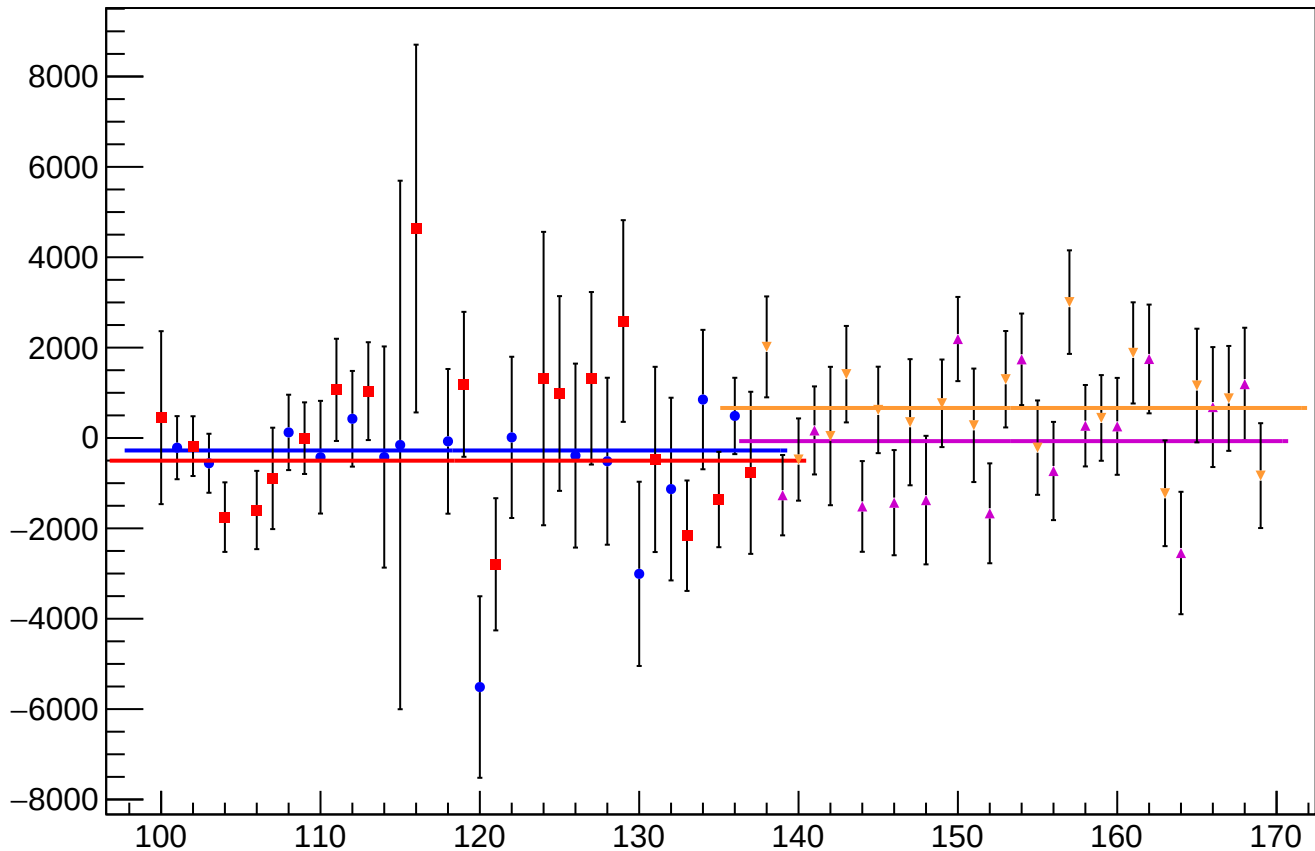
Right: 738.554 $\pm$ 0.146 χ^2 /NDF: 3545017.2/34

In: 888.022 $\pm$ 0.147 χ^2 /NDF: 2615448.3/30

Out: 856.078 $\pm$ 0.138 χ^2 /NDF: 3064542.0/35

All: 871.049 $\pm$ 0.101 χ^2 /NDF: 5705050.7/66

asym_sam5_mean vs Slug, Sign Corrected



Right In: -276.199 ± 296.708 $\chi^2/\text{NDF}: 11.1/15$

Left Out: 664.257 ± 267.909 $\chi^2/\text{NDF}: 14.8/16$

Right Out: -501.985 ± 272.991 $\chi^2/\text{NDF}: 20.5/18$

Left In: -69.374 ± 278.636 $\chi^2/\text{NDF}: 24.9/14$

Left: 311.834 ± 193.121 $\chi^2/\text{NDF}: 43.3/31$

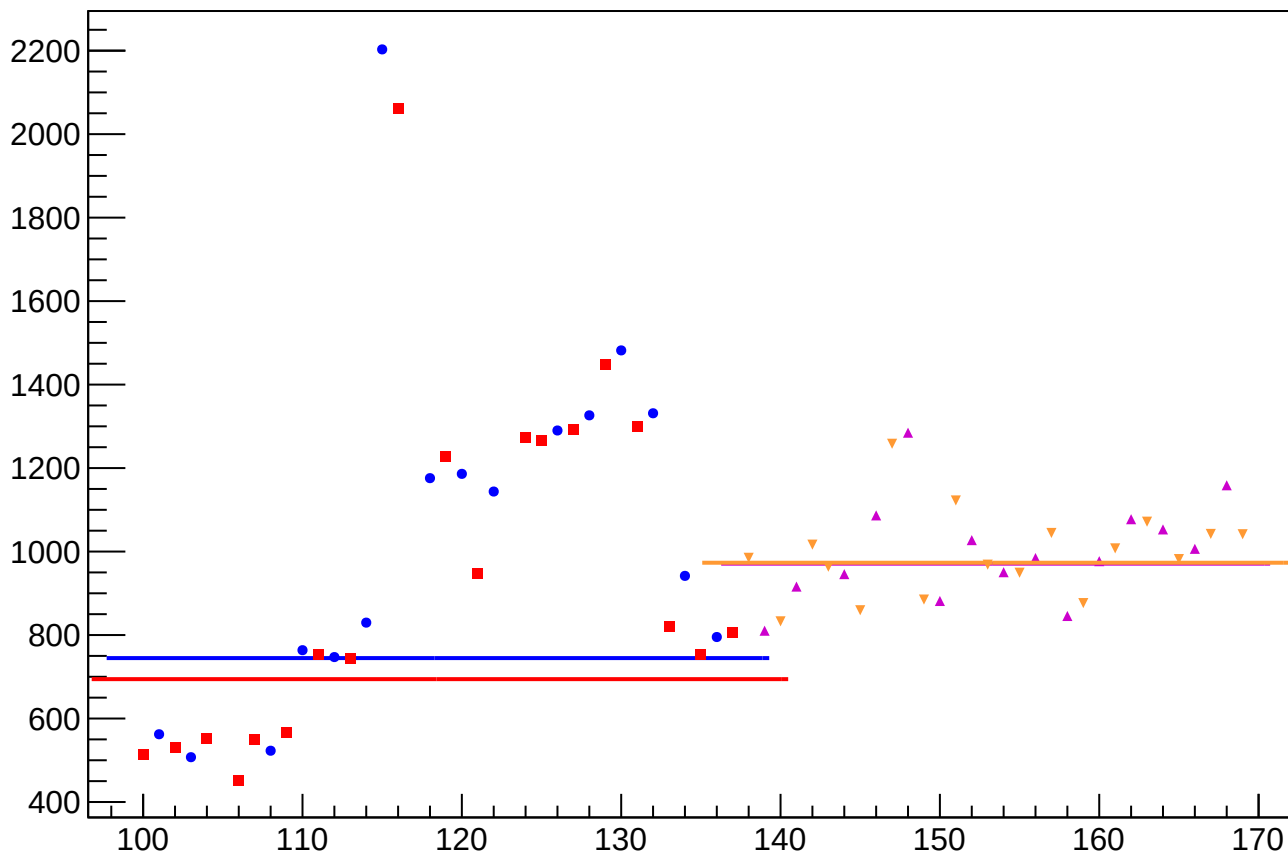
Right: -398.475 ± 200.896 $\chi^2/\text{NDF}: 31.9/34$

In: -166.296 ± 203.114 $\chi^2/\text{NDF}: 36.2/30$

Out: 92.091 ± 191.212 $\chi^2/\text{NDF}: 44.6/35$

All: -29.311 ± 139.225 $\chi^2/\text{NDF}: 81.6/66$

asym_sam5_rms vs Slug, Sign Corrected



Right In: 744.783+/-0.210 χ^2/NDF : 1822553.5/15

Left Out: 973.246+/-0.189 χ^2/NDF : 265830.8/16

Right Out: 694.348+/-0.193 χ^2/NDF : 1803741.9/18

Left In: 970.956+/-0.197 χ^2/NDF : 323152.8/14

Left: 972.146+/-0.137 χ^2/NDF : 589053.8/31

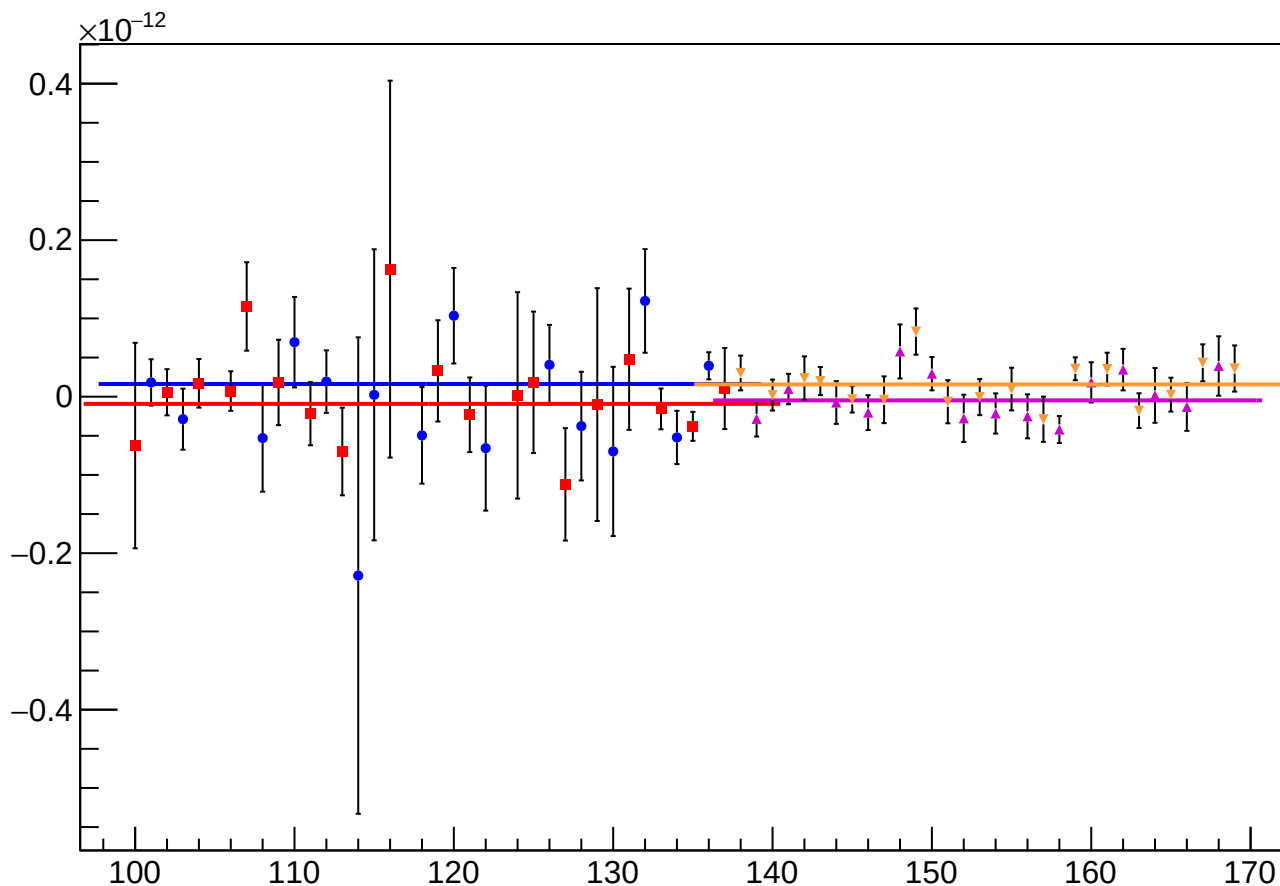
Right: 717.469+/-0.142 χ^2/NDF : 3657590.2/34

In: 864.967+/-0.144 χ^2/NDF : 2763239.4/30

Out: 836.417+/-0.135 χ^2/NDF : 3132930.0/35

All: 849.831+/-0.098 χ^2/NDF : 5917118.4/66

asym_sam5_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 18.8/16

Right Out: -0.000+/-0.000 χ^2/NDF : 14.1/18

Left In: -0.000+/-0.000 χ^2/NDF : 18.7/14

Left: 0.000+/-0.000 χ^2/NDF : 43.3/31

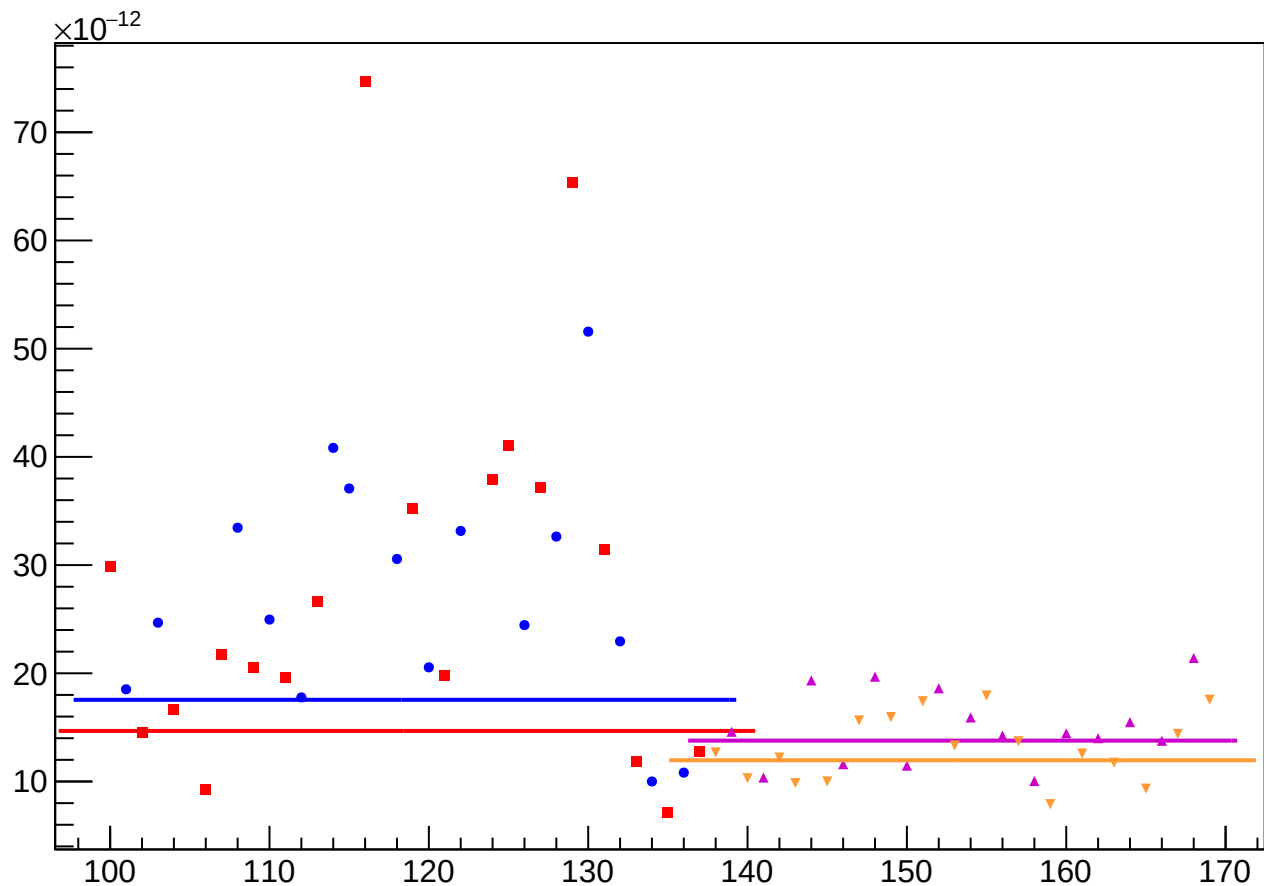
Right: 0.000+/-0.000 χ^2/NDF : 35.3/34

In: 0.000+/-0.000 χ^2/NDF : 39.4/30

Out: 0.000+/-0.000 χ^2/NDF : 38.2/35

All: 0.000+/-0.000 χ^2/NDF : 79.0/66

asym_sam5_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1156509.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 606104.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1741597.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 496149.3/14

Left: 0.000+/-0.000 χ^2/NDF : 1195422.0/31

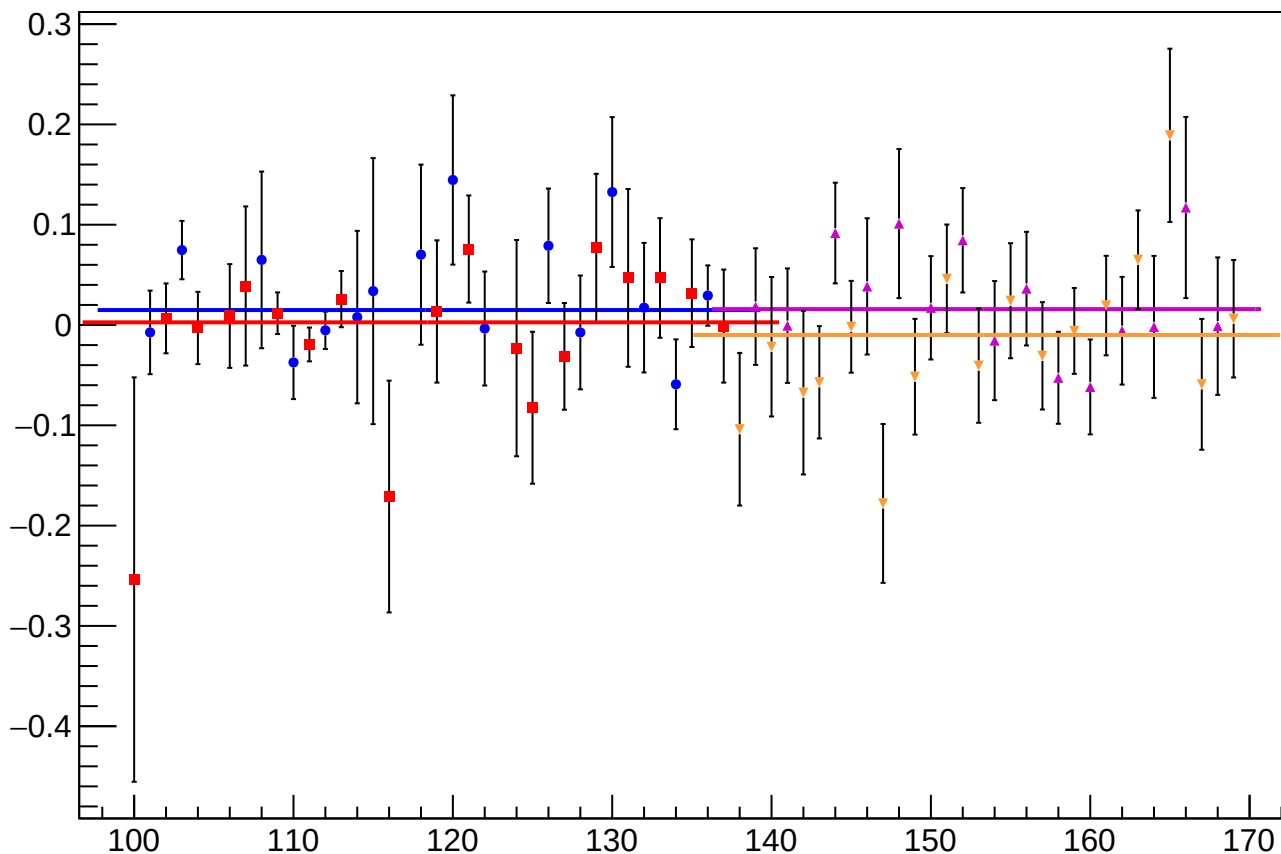
Right: 0.000+/-0.000 χ^2/NDF : 2980076.4/34

In: 0.000+/-0.000 χ^2/NDF : 1834908.7/30

Out: 0.000+/-0.000 χ^2/NDF : 2473872.1/35

All: 0.000+/-0.000 χ^2/NDF : 4486839.1/66

asym_sam5_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.011 χ^2 /NDF: 17.8/15

Left Out: -0.010 $\pm$ 0.014 χ^2 /NDF:18.3/16

Right Out: 0.003 $\pm$ 0.009 χ^2 /NDF: 12.5/18

Left In: 0.016 $\pm$ 0.015 χ^2 /NDF:12.4/14

Left: 0.002 $\pm$ 0.010 χ^2 /NDF: 32.3/31

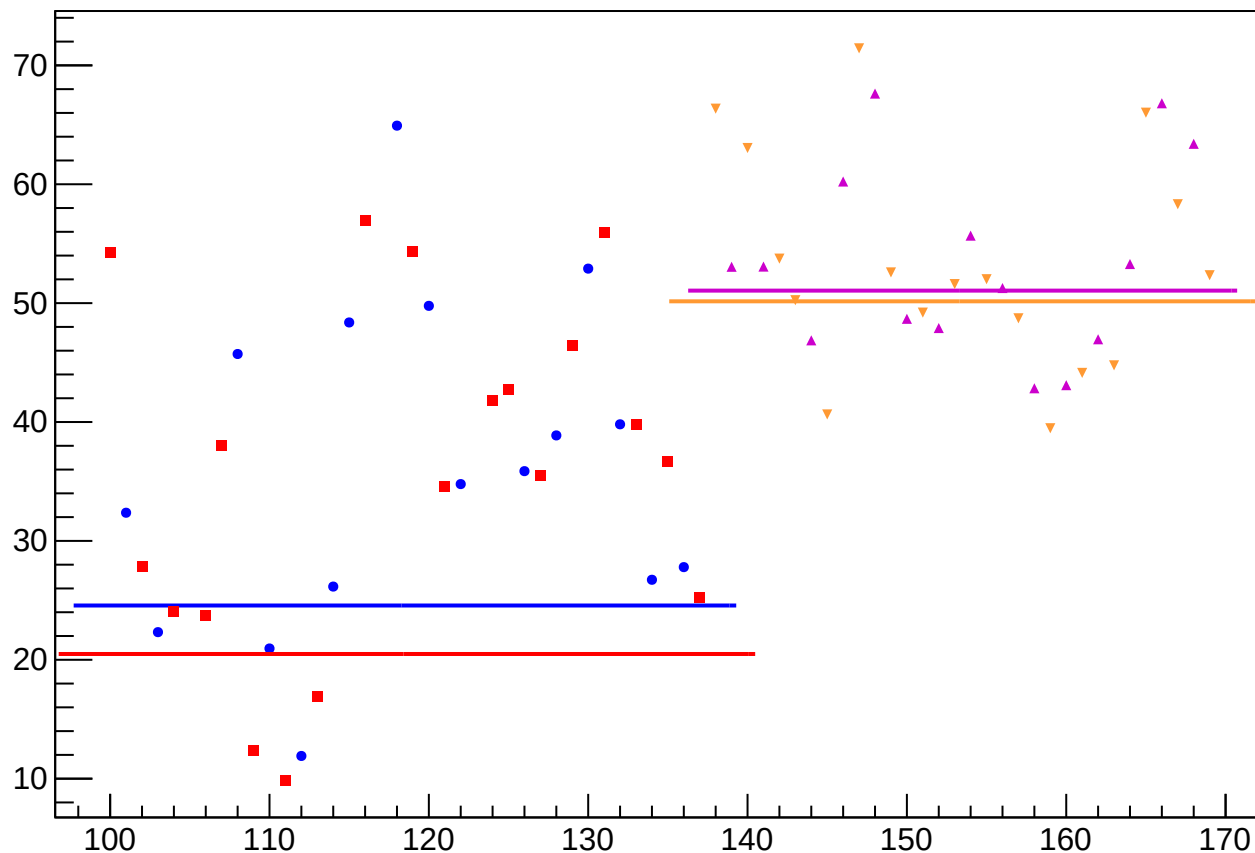
Right: 0.008 $\pm$ 0.007 χ^2 /NDF: 31.0/34

In: 0.015 $\pm$ 0.009 χ^2 /NDF:30.2/30

Out: -0.001 $\pm$ 0.008 χ^2 /NDF:31.3/35

All: 0.006 $\pm$ 0.006 χ^2 /NDF: 63.5/66

asym_sam5_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566+/-0.007 χ^2/NDF : 2484530.5/15

Left Out: 50.153+/-0.010 χ^2/NDF : 682695.6/16

Right Out: 20.488+/-0.007 χ^2/NDF : 3583938.4/18

Left In: 51.053+/-0.010 χ^2/NDF : 438480.7/14

Left: 50.577+/-0.007 χ^2/NDF : 1125074.4/31

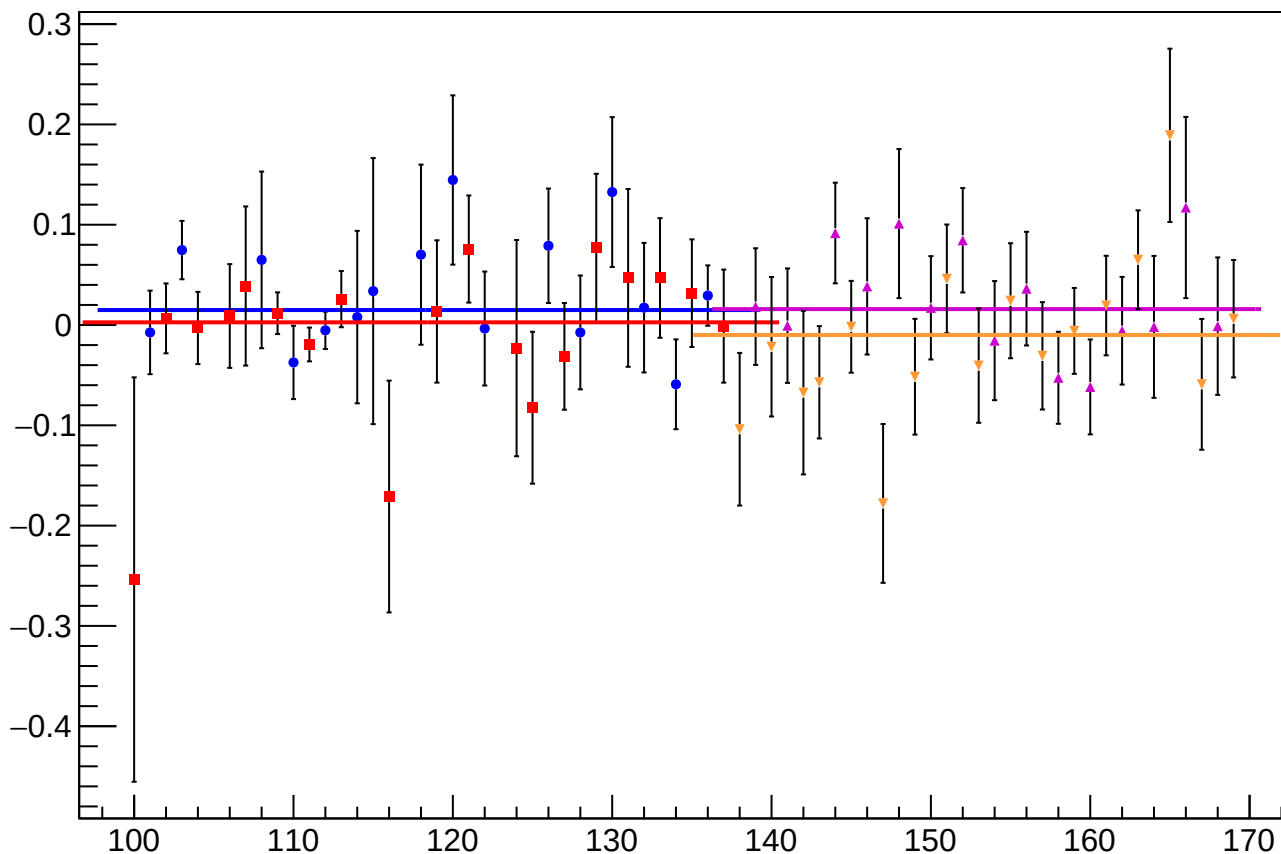
Right: 22.248+/-0.005 χ^2/NDF : 6237147.6/34

In: 33.503+/-0.006 χ^2/NDF : 7146569.7/30

Out: 29.483+/-0.005 χ^2/NDF : 10536192.5/35

All: 31.268+/-0.004 χ^2/NDF : 17924735.2/66

asym_sam5_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.011 $\chi^2/\text{NDF}: 17.8/15$

Left Out: -0.010 ± 0.014 $\chi^2/\text{NDF}: 18.3/16$

Right Out: 0.003 ± 0.009 $\chi^2/\text{NDF}: 12.5/18$

Left In: 0.016 ± 0.015 $\chi^2/\text{NDF}: 12.4/14$

Left: 0.002 ± 0.010 $\chi^2/\text{NDF}: 32.3/31$

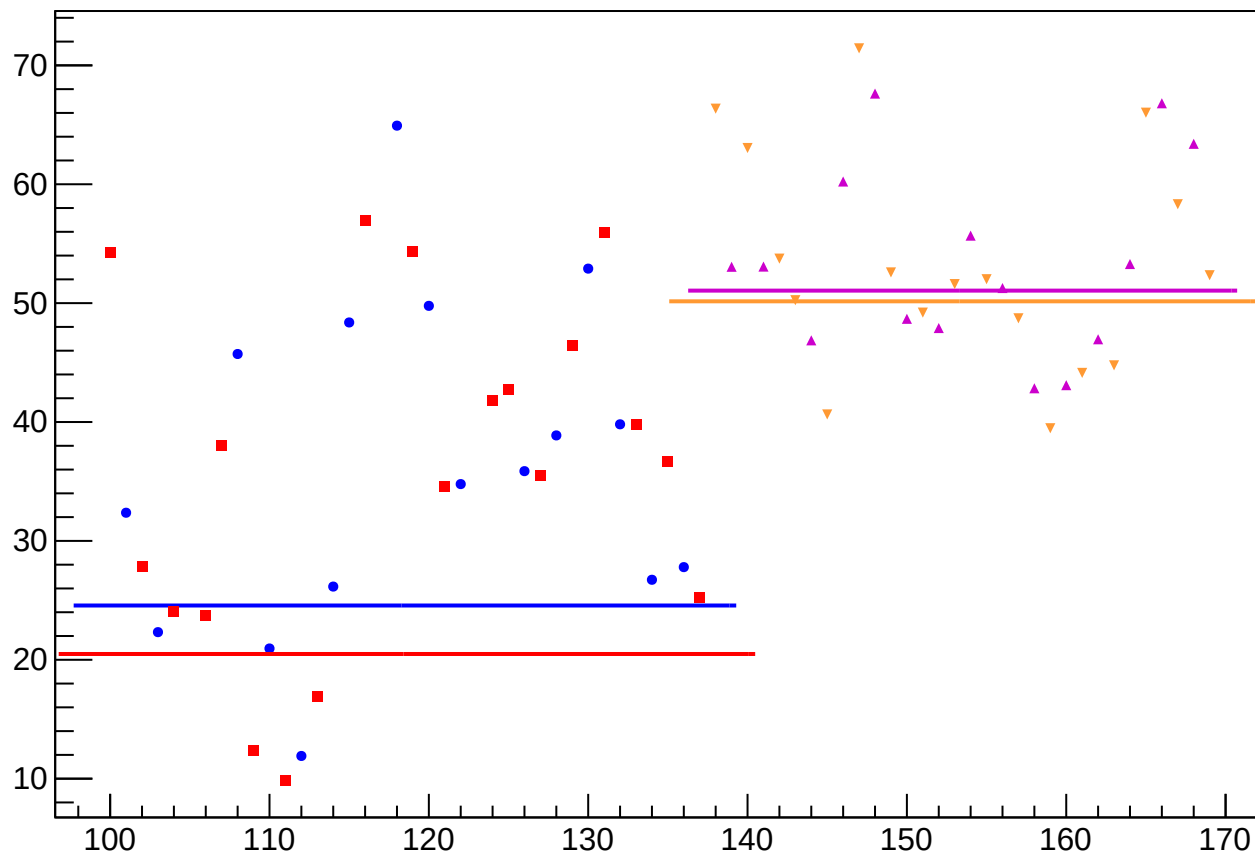
Right: 0.008 ± 0.007 $\chi^2/\text{NDF}: 31.0/34$

In: 0.015 ± 0.009 $\chi^2/\text{NDF}: 30.2/30$

Out: -0.001 ± 0.008 $\chi^2/\text{NDF}: 31.3/35$

All: 0.006 ± 0.006 $\chi^2/\text{NDF}: 63.5/66$

asym_sam5_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566 $\pm$ 0.007 χ^2/NDF : 2484530.5/15

Left Out: 50.153 $\pm$ 0.010 χ^2/NDF : 682695.6/16

Right Out: 20.488 $\pm$ 0.007 χ^2/NDF : 3583938.4/18

Left In: 51.053 $\pm$ 0.010 χ^2/NDF : 438480.7/14

Left: 50.577 $\pm$ 0.007 χ^2/NDF : 1125074.4/31

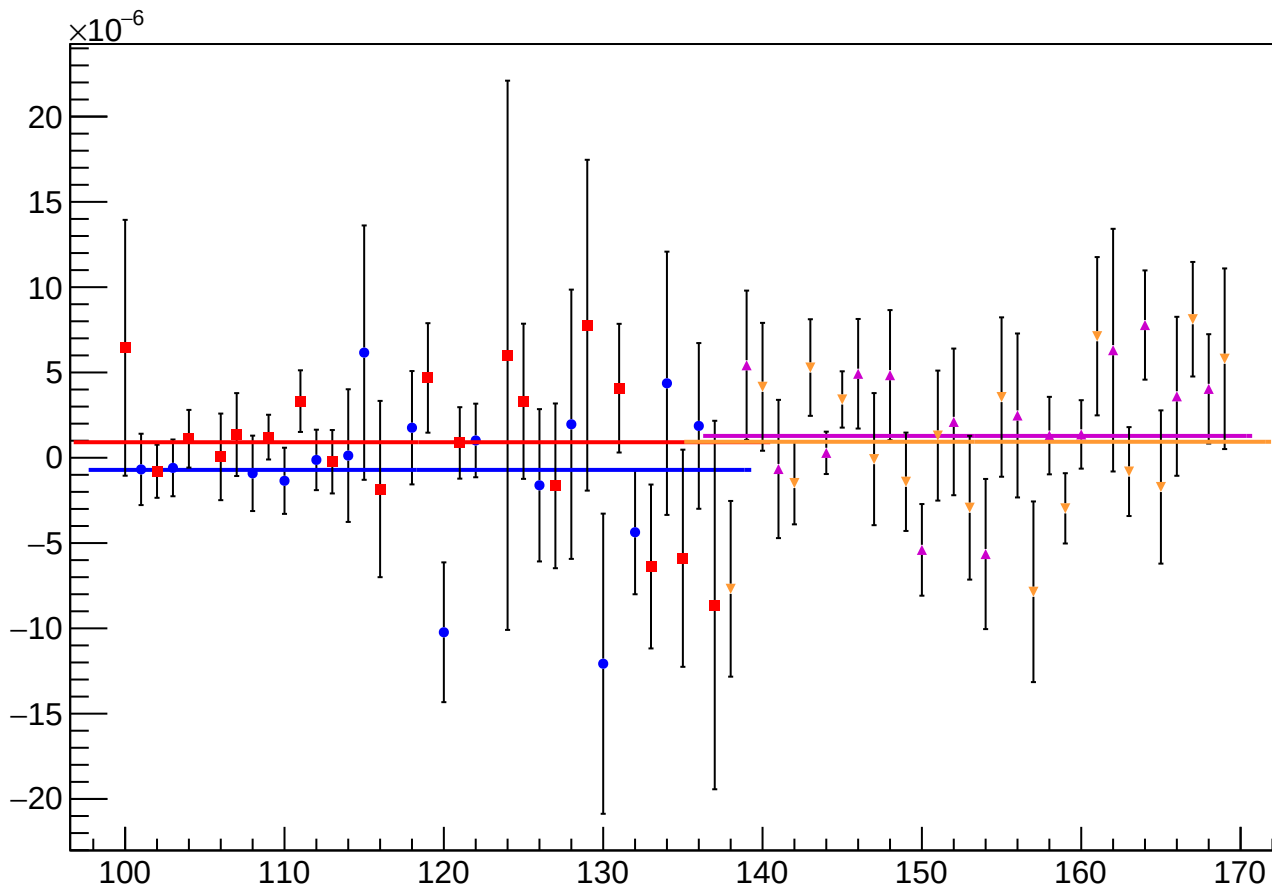
Right: 22.248 $\pm$ 0.005 χ^2/NDF : 6237147.6/34

In: 33.503 $\pm$ 0.006 χ^2/NDF : 7146569.7/30

Out: 29.483 $\pm$ 0.005 χ^2/NDF : 10536192.5/35

All: 31.268 $\pm$ 0.004 χ^2/NDF : 17924735.2/66

asym_sam5_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 11.3/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 25.4/16$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 11.9/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 18.3/14$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 43.8/31$

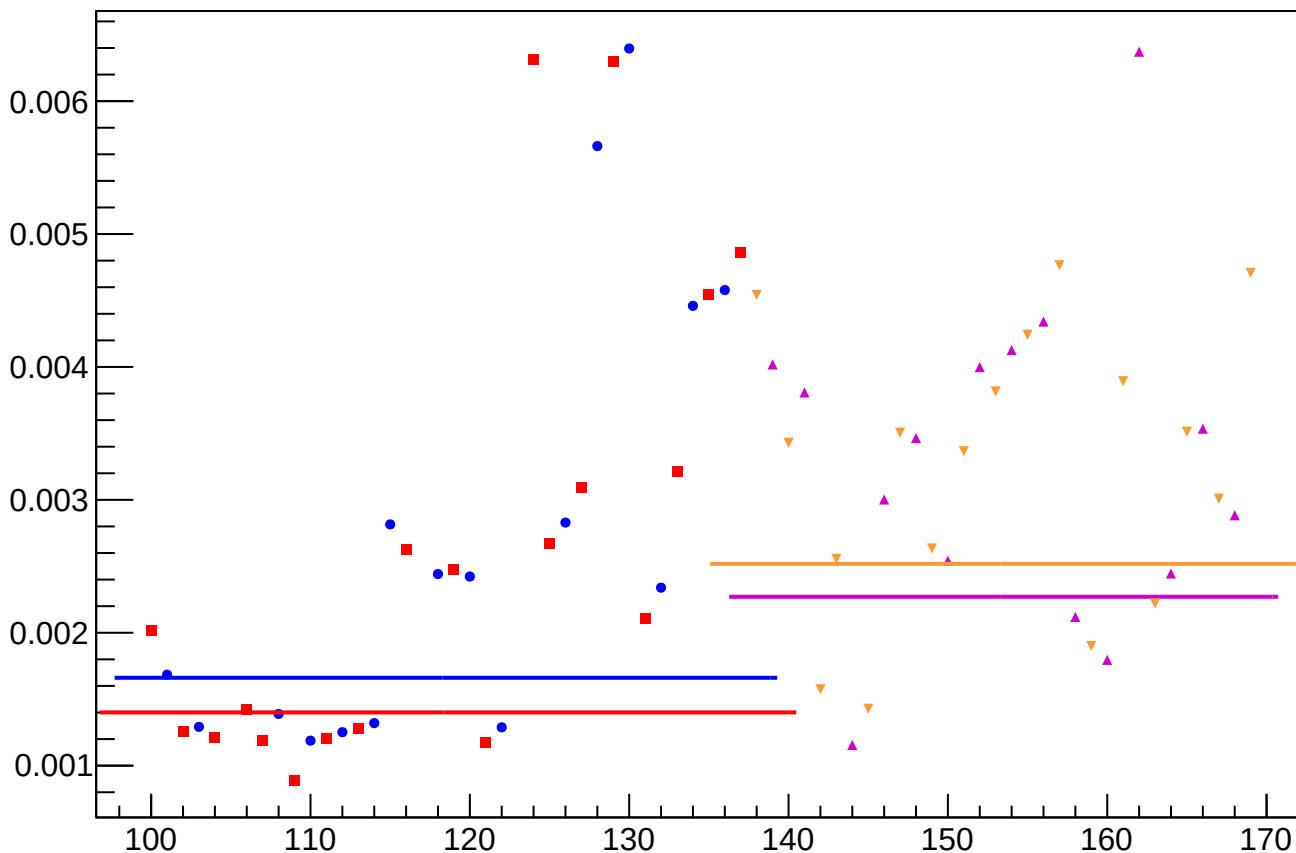
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 26.3/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 33.5/30$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 37.3/35$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 71.7/66$

asym_sam5_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2942035.6/15

Left Out: 0.003+/-0.000 χ^2/NDF :3521589.0/16

Right Out: 0.001+/-0.000 χ^2/NDF : 2915624.2/18

Left In: 0.002+/-0.000 χ^2/NDF :4603396.1/14

Left: 0.002+/-0.000 χ^2/NDF : 8238034.4/31

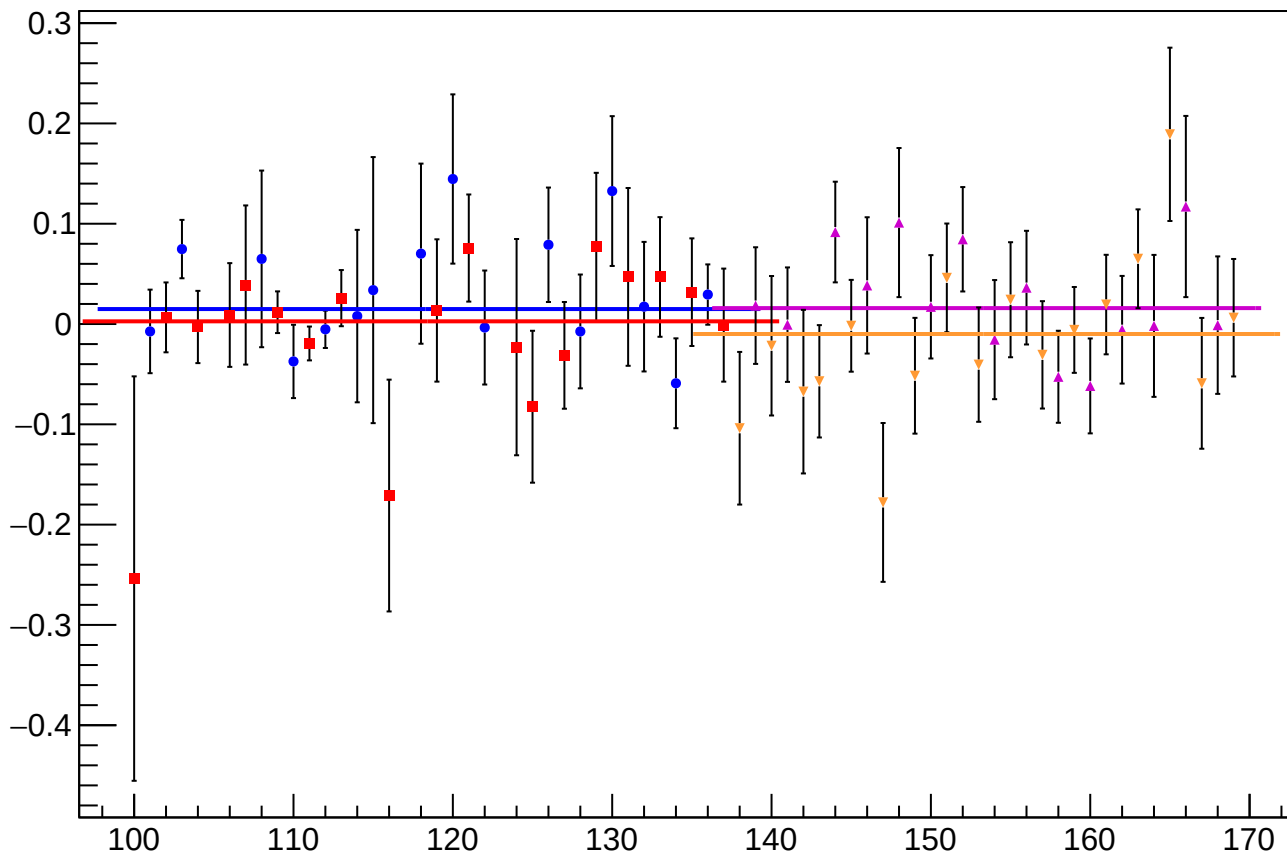
Right: 0.002+/-0.000 χ^2/NDF : 6020323.5/34

In: 0.002+/-0.000 χ^2/NDF :8280507.1/30

Out: 0.002+/-0.000 χ^2/NDF :9181980.9/35

All: 0.002+/-0.000 χ^2/NDF : 17537205.6/66

asym_sam5_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.011 $\chi^2/\text{NDF}: 17.8/15$

Left Out: -0.010 ± 0.014 $\chi^2/\text{NDF}: 18.3/16$

Right Out: 0.003 ± 0.009 $\chi^2/\text{NDF}: 12.5/18$

Left In: 0.016 ± 0.015 $\chi^2/\text{NDF}: 12.4/14$

Left: 0.002 ± 0.010 $\chi^2/\text{NDF}: 32.3/31$

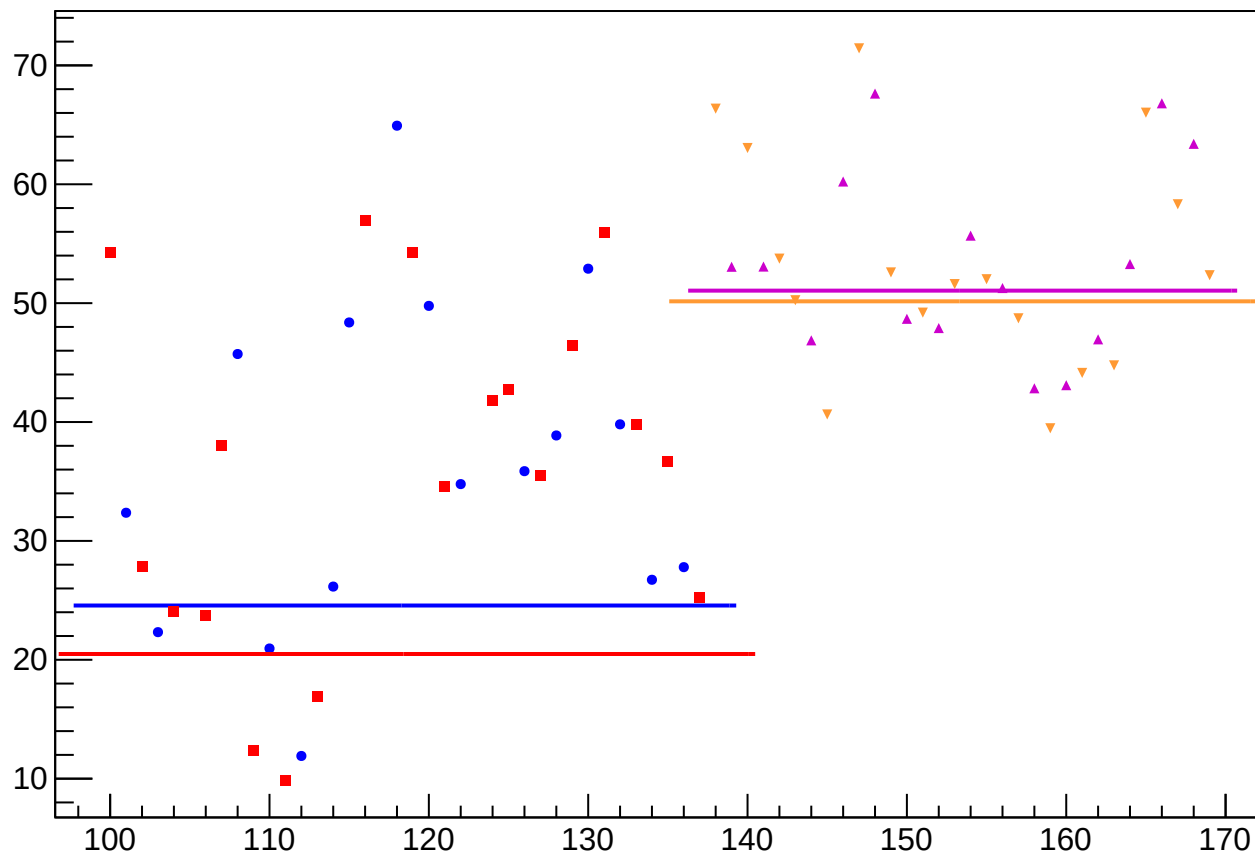
Right: 0.008 ± 0.007 $\chi^2/\text{NDF}: 31.0/34$

In: 0.015 ± 0.009 $\chi^2/\text{NDF}: 30.2/30$

Out: -0.001 ± 0.008 $\chi^2/\text{NDF}: 31.3/35$

All: 0.006 ± 0.006 $\chi^2/\text{NDF}: 63.5/66$

asym_sam5_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566 $\pm$ 0.007 χ^2 /NDF: 2484434.5/15

Left Out: 50.153 $\pm$ 0.010 χ^2 /NDF: 682826.8/16

Right Out: 20.487 $\pm$ 0.007 χ^2 /NDF: 3583888.1/18

Left In: 51.053 $\pm$ 0.010 χ^2 /NDF: 438576.7/14

Left: 50.577 $\pm$ 0.007 χ^2 /NDF: 1125300.5/31

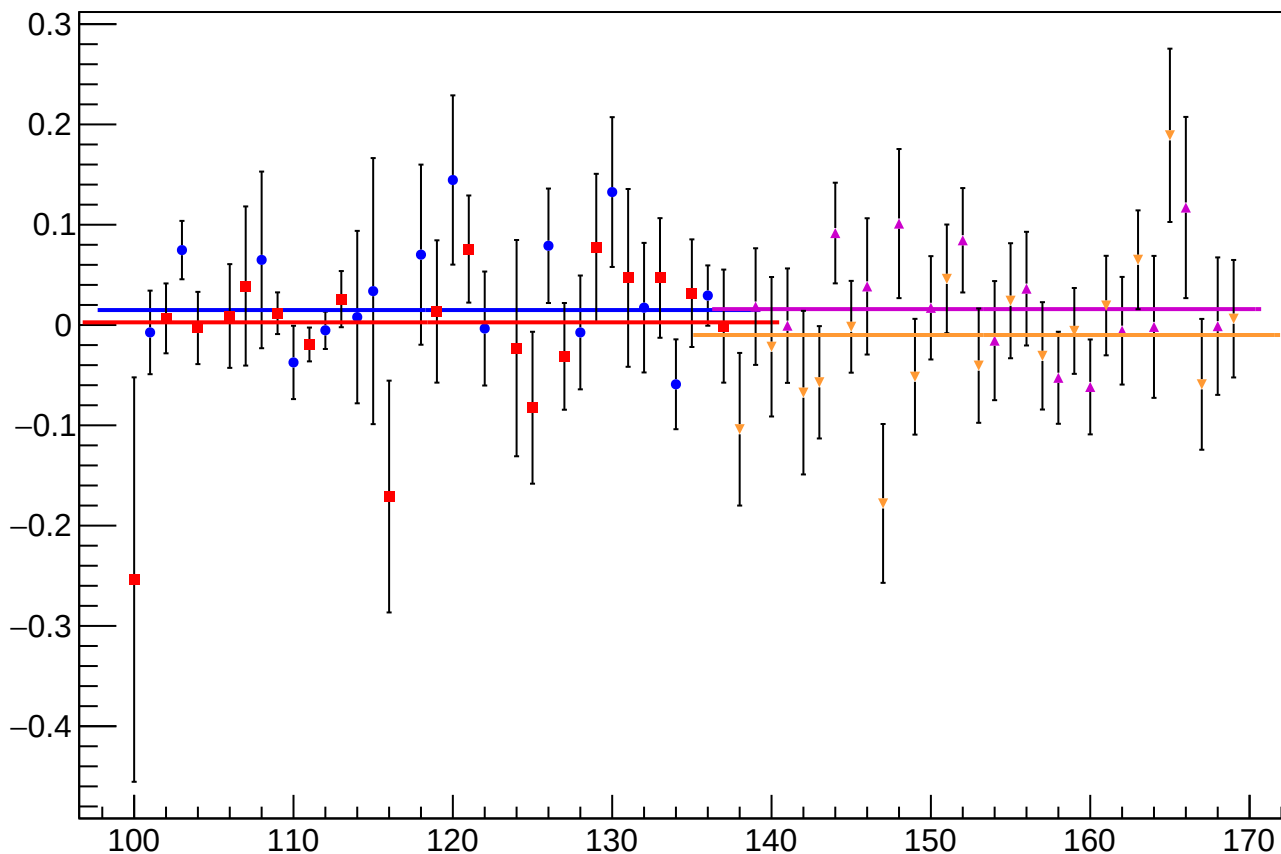
Right: 22.247 $\pm$ 0.005 χ^2 /NDF: 6237010.7/34

In: 33.502 $\pm$ 0.006 χ^2 /NDF: 7146763.6/30

Out: 29.482 $\pm$ 0.005 χ^2 /NDF: 10536576.9/35

All: 31.267 $\pm$ 0.004 χ^2 /NDF: 17925326.5/66

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.015 ± 0.011 $\chi^2/\text{NDF}: 17.8/15$

Left Out: -0.010 ± 0.014 $\chi^2/\text{NDF}: 18.3/16$

Right Out: 0.003 ± 0.009 $\chi^2/\text{NDF}: 12.5/18$

Left In: 0.016 ± 0.015 $\chi^2/\text{NDF}: 12.4/14$

Left: 0.002 ± 0.010 $\chi^2/\text{NDF}: 32.3/31$

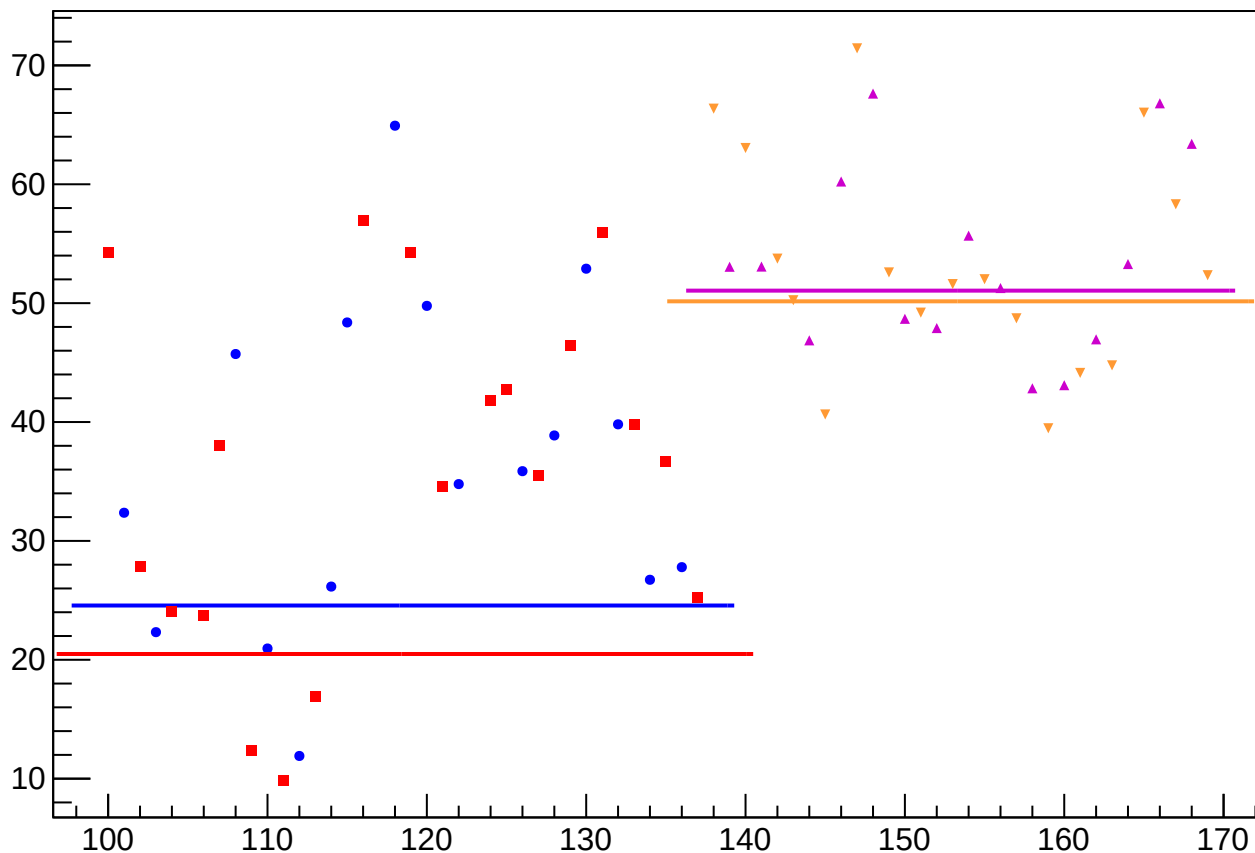
Right: 0.008 ± 0.007 $\chi^2/\text{NDF}: 31.0/34$

In: 0.015 ± 0.009 $\chi^2/\text{NDF}: 30.2/30$

Out: -0.001 ± 0.008 $\chi^2/\text{NDF}: 31.3/35$

All: 0.006 ± 0.006 $\chi^2/\text{NDF}: 63.5/66$

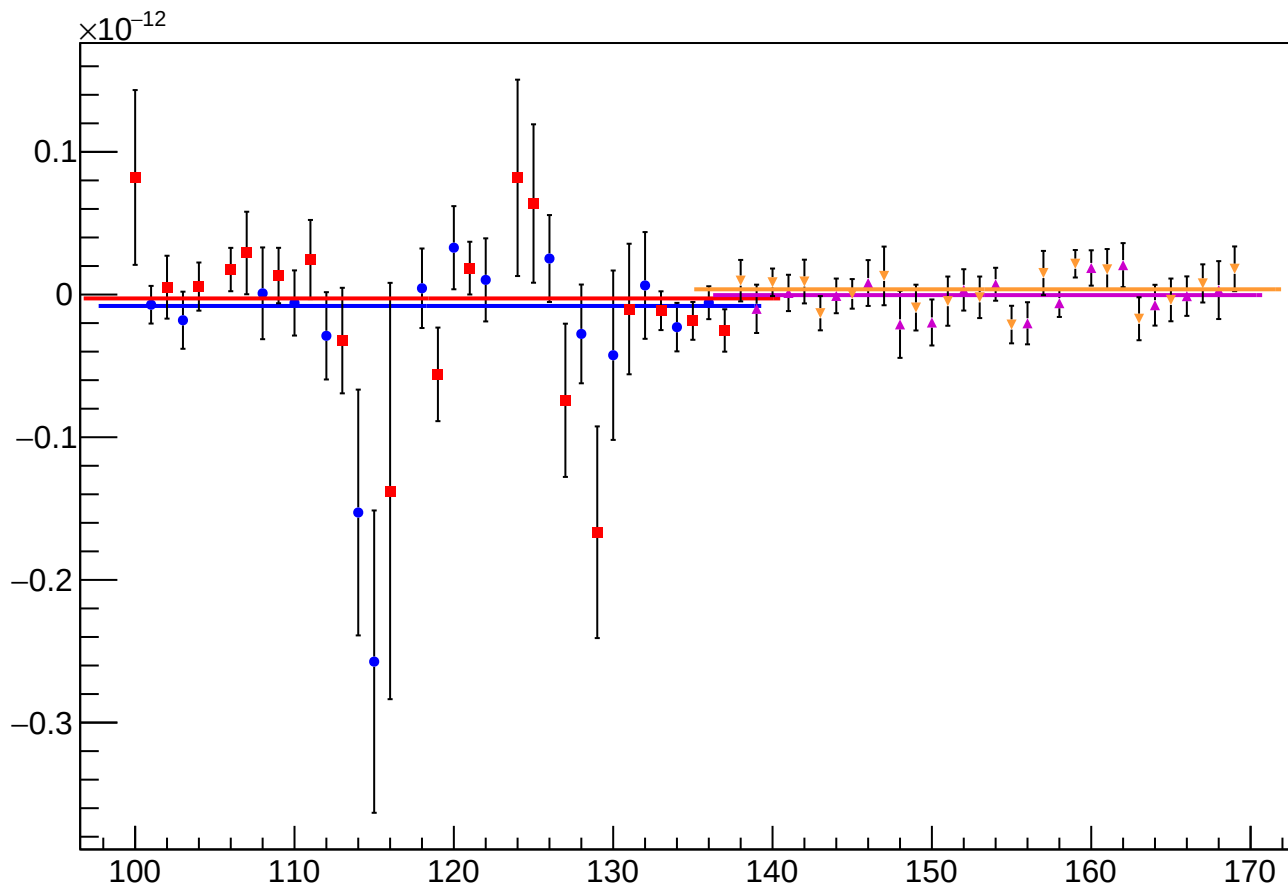
asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.566+/-0.007 χ^2/NDF : 2484434.5/15
 Left Out: 50.153+/-0.010 χ^2/NDF : 682826.8/16
 Right Out: 20.487+/-0.007 χ^2/NDF : 3583888.1/18
 Left In: 51.053+/-0.010 χ^2/NDF : 438576.7/14

Left: 50.577+/-0.007 χ^2/NDF : 1125300.5/31
 Right: 22.247+/-0.005 χ^2/NDF : 6237010.7/34
 In: 33.502+/-0.006 χ^2/NDF : 7146763.6/30
 Out: 29.482+/-0.005 χ^2/NDF : 10536576.9/35
 All: 31.267+/-0.004 χ^2/NDF : 17925326.5/66

asym_sam5_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.5/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 15.4/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 26.1/18

Left In: -0.000 ± 0.000 χ^2/NDF : 9.9/14

Left: 0.000 ± 0.000 χ^2/NDF : 26.0/31

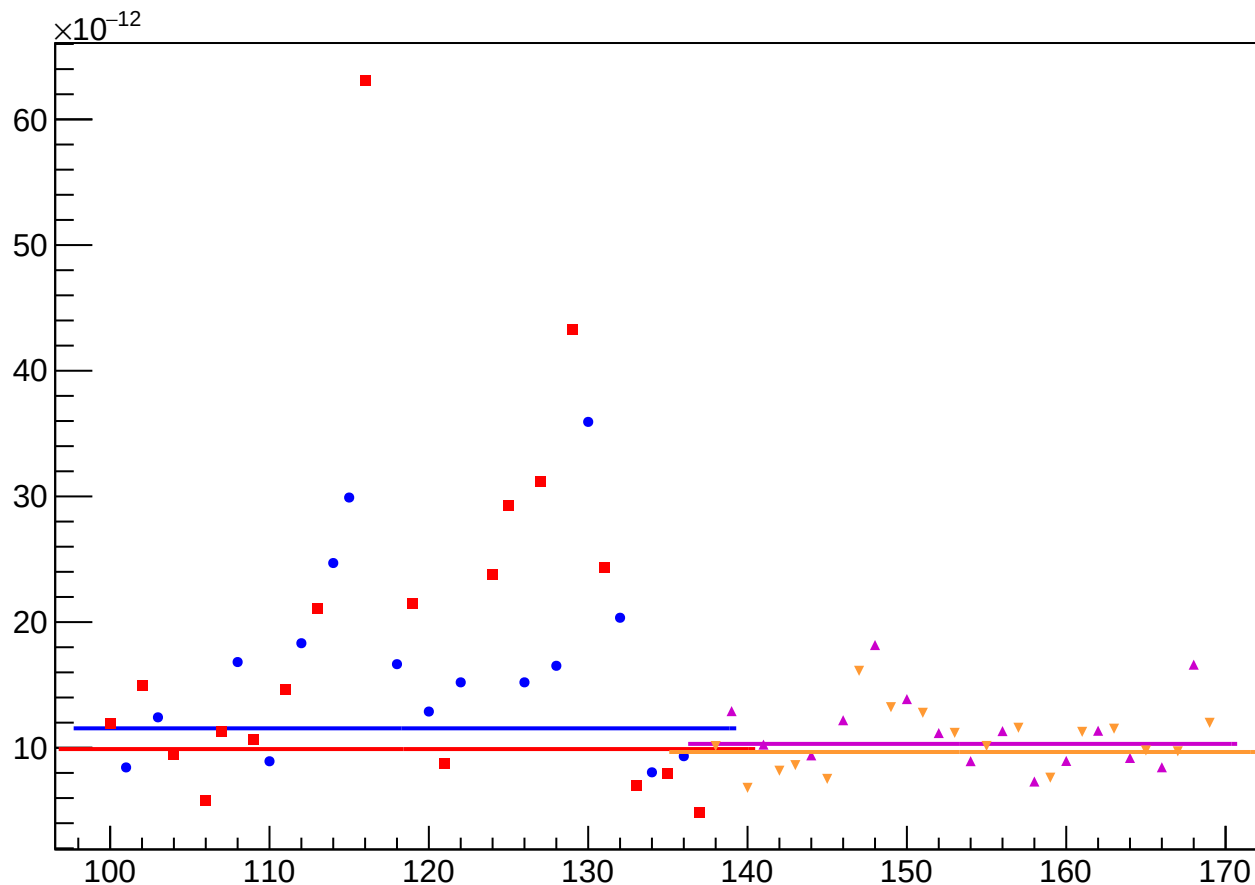
Right: -0.000 ± 0.000 χ^2/NDF : 41.1/34

In: -0.000 ± 0.000 χ^2/NDF : 25.7/30

Out: 0.000 ± 0.000 χ^2/NDF : 42.6/35

All: -0.000 ± 0.000 χ^2/NDF : 69.4/66

asym_sam5_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1179957.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 902496.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2635766.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 919248.1/14

Left: 0.000+/-0.000 χ^2/NDF : 1856979.5/31

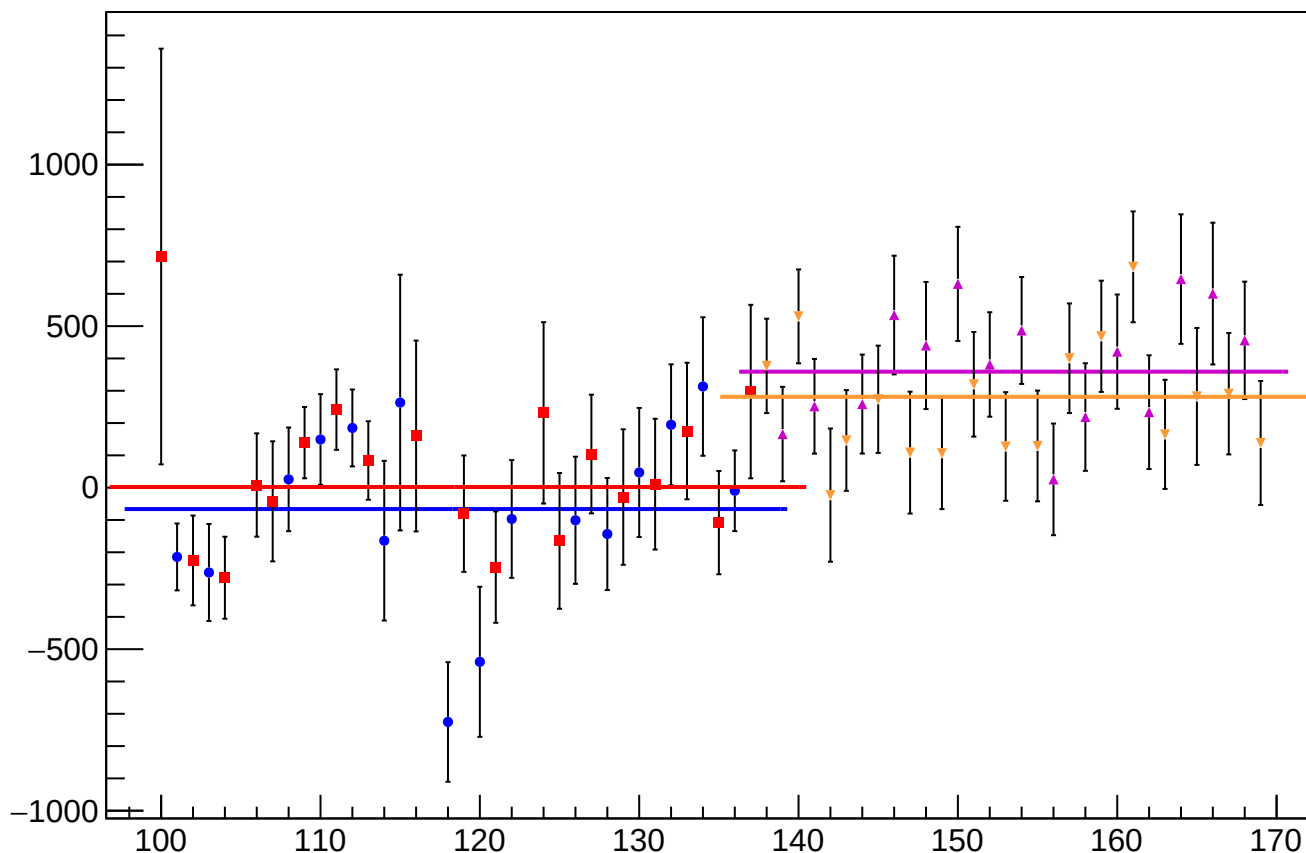
Right: 0.000+/-0.000 χ^2/NDF : 3905918.0/34

In: 0.000+/-0.000 χ^2/NDF : 2165160.8/30

Out: 0.000+/-0.000 χ^2/NDF : 3541154.6/35

All: 0.000+/-0.000 χ^2/NDF : 5807501.1/66

reg_asym_sam6_mean vs Slug, Sign Corrected



Right In: -66.230 ± 40.937 χ^2/NDF : 34.4/15

Left Out: 281.085 ± 41.544 χ^2/NDF : 18.0/16

Right Out: 2.017 ± 38.866 χ^2/NDF : 21.1/18

Left In: 359.064 ± 44.368 χ^2/NDF : 15.4/14

Left: 317.515 ± 30.325 χ^2/NDF : 35.1/31

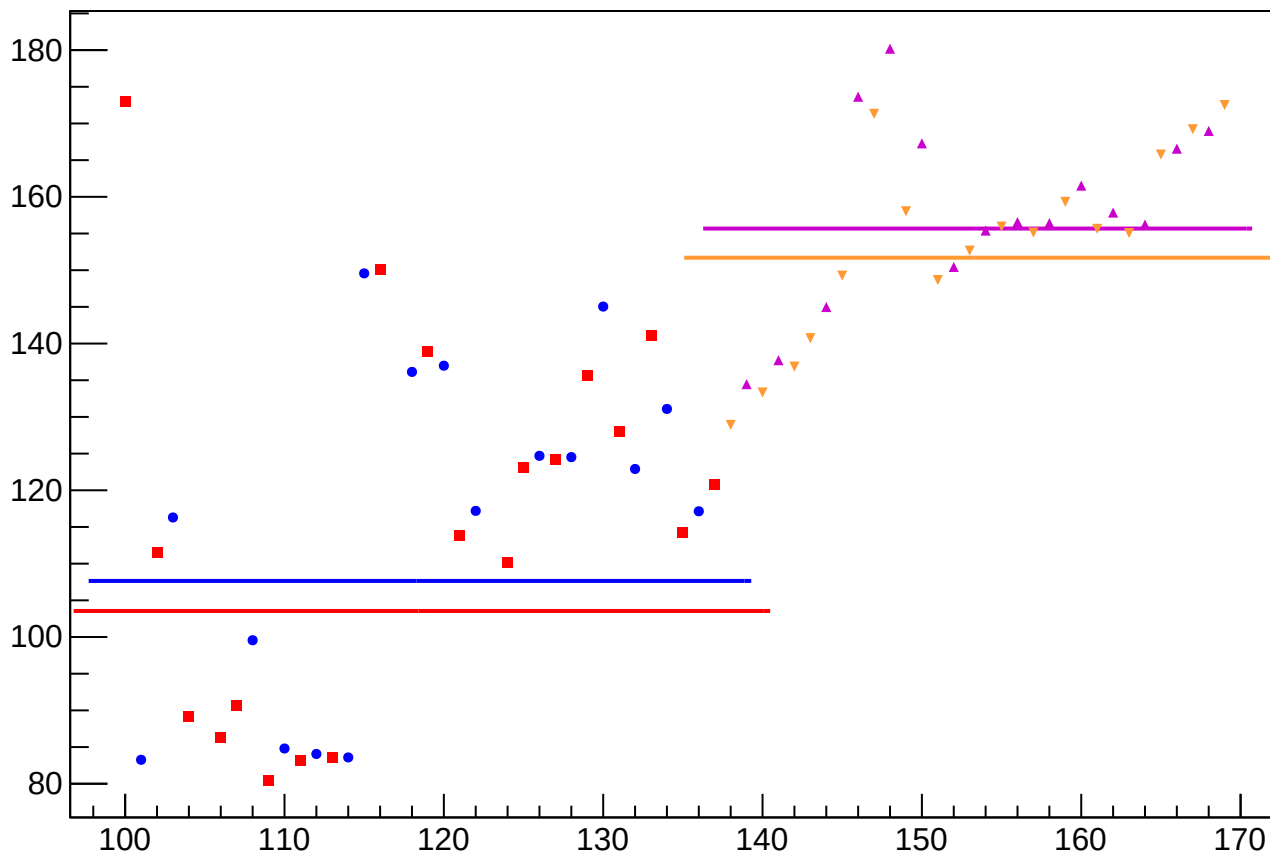
Right: -30.337 ± 28.186 χ^2/NDF : 57.0/34

In: 129.342 ± 30.087 χ^2/NDF : 99.4/30

Out: 132.268 ± 28.382 χ^2/NDF : 63.2/35

All: 130.890 ± 20.646 χ^2/NDF : 162.6/66

reg_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.644 $\pm$ 0.029 χ^2 /NDF: 532821.7/15

Left Out: 151.700 $\pm$ 0.029 χ^2 /NDF:183792.2/16

Right Out: 103.550 $\pm$ 0.027 χ^2 /NDF: 617345.0/18

Left In: 155.676 $\pm$ 0.031 χ^2 /NDF:161029.1/14

Left: 153.558 $\pm$ 0.021 χ^2 /NDF: 353377.4/31

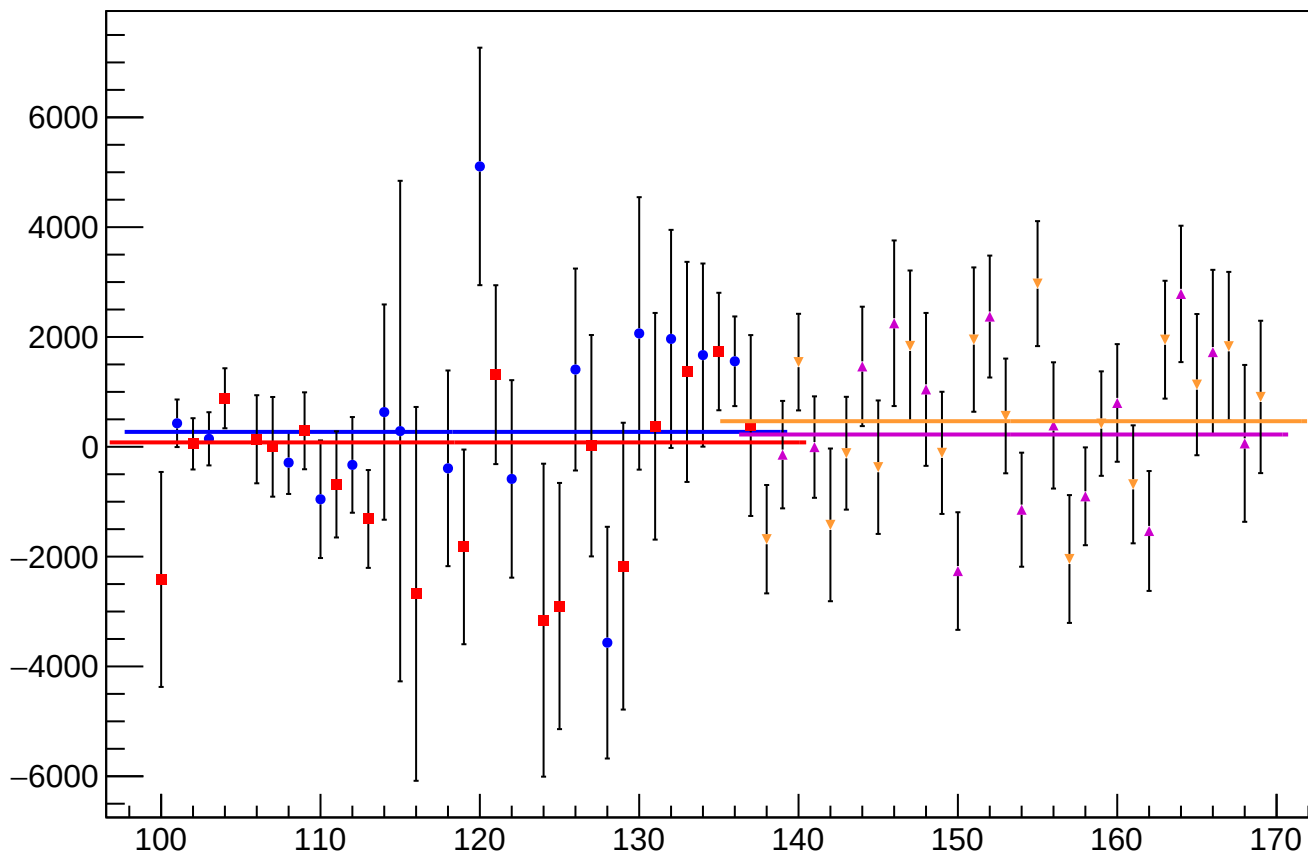
Right: 105.491 $\pm$ 0.020 χ^2 /NDF: 1160688.9/34

In: 129.731 $\pm$ 0.021 χ^2 /NDF:1959956.0/30

Out: 126.023 $\pm$ 0.020 χ^2 /NDF:2233840.8/35

All: 127.769 $\pm$ 0.015 χ^2 /NDF: 4209872.1/66

asym_sam6_reg_correction_mean vs Slug, Sign Corrected



Right In: 271.505 $\pm$ 230.663 χ^2 /NDF: 16.5/15

Left Out: 466.154 $\pm$ 274.086 χ^2 /NDF:25.4/16

Right Out: 80.094 $\pm$ 232.154 χ^2 /NDF: 16.0/18

Left In: 224.036 $\pm$ 289.412 χ^2 /NDF:24.3/14

Left: 351.676 $\pm$ 199.006 χ^2 /NDF: 50.0/31

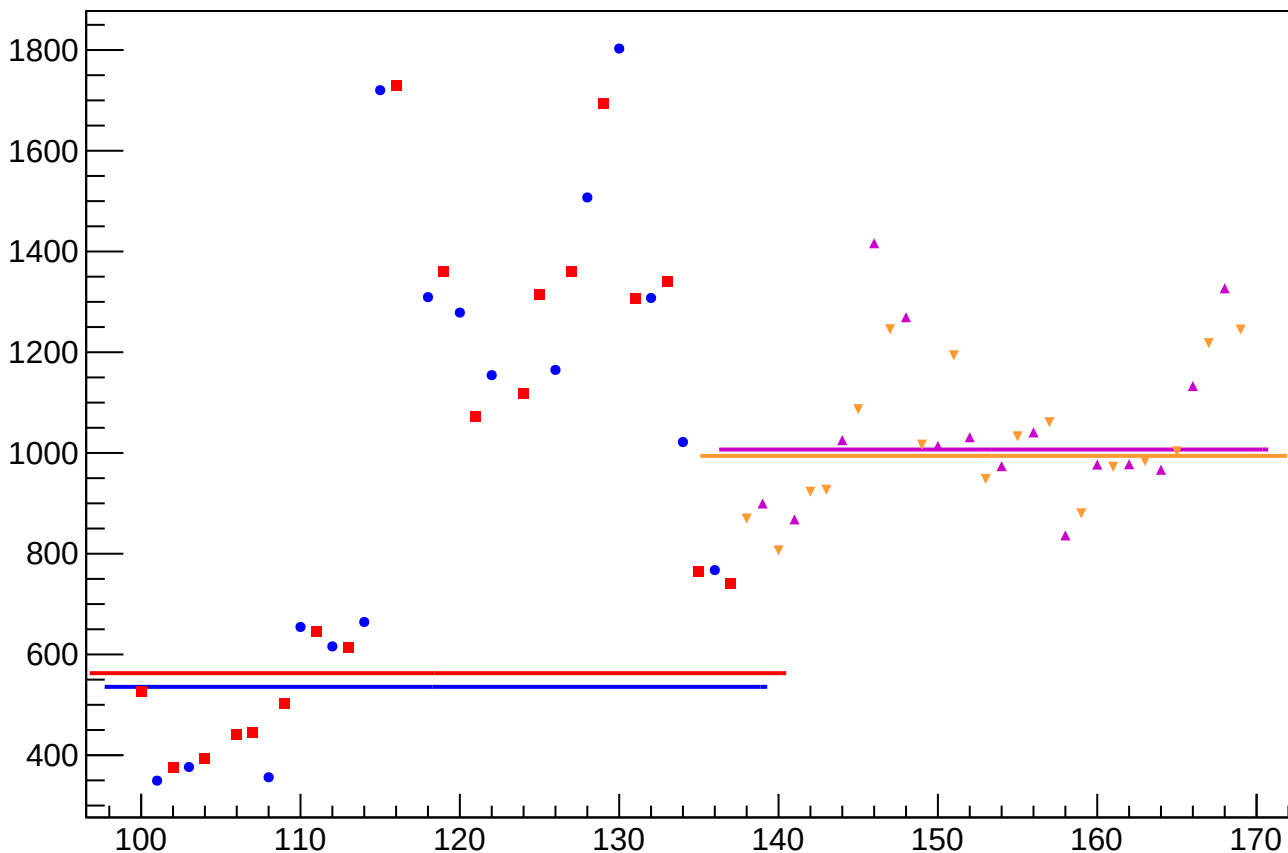
Right: 176.417 $\pm$ 163.628 χ^2 /NDF: 32.8/34

In: 253.065 $\pm$ 180.380 χ^2 /NDF:40.8/30

Out: 241.365 $\pm$ 177.148 χ^2 /NDF:42.5/35

All: 247.109 $\pm$ 126.390 χ^2 /NDF: 83.3/66

asym_sam6_reg_correction_rms vs Slug, Sign Corrected



Right In: 535.683 $\pm$ 0.163 χ^2 /NDF: 3632390.5/15

Left Out: 994.235 $\pm$ 0.194 χ^2 /NDF: 424690.9/16

Right Out: 562.845 $\pm$ 0.164 χ^2 /NDF: 3111031.5/18

Left In: 1006.865 $\pm$ 0.205 χ^2 /NDF: 486098.4/14

Left: 1000.207 $\pm$ 0.141 χ^2 /NDF: 912797.3/31

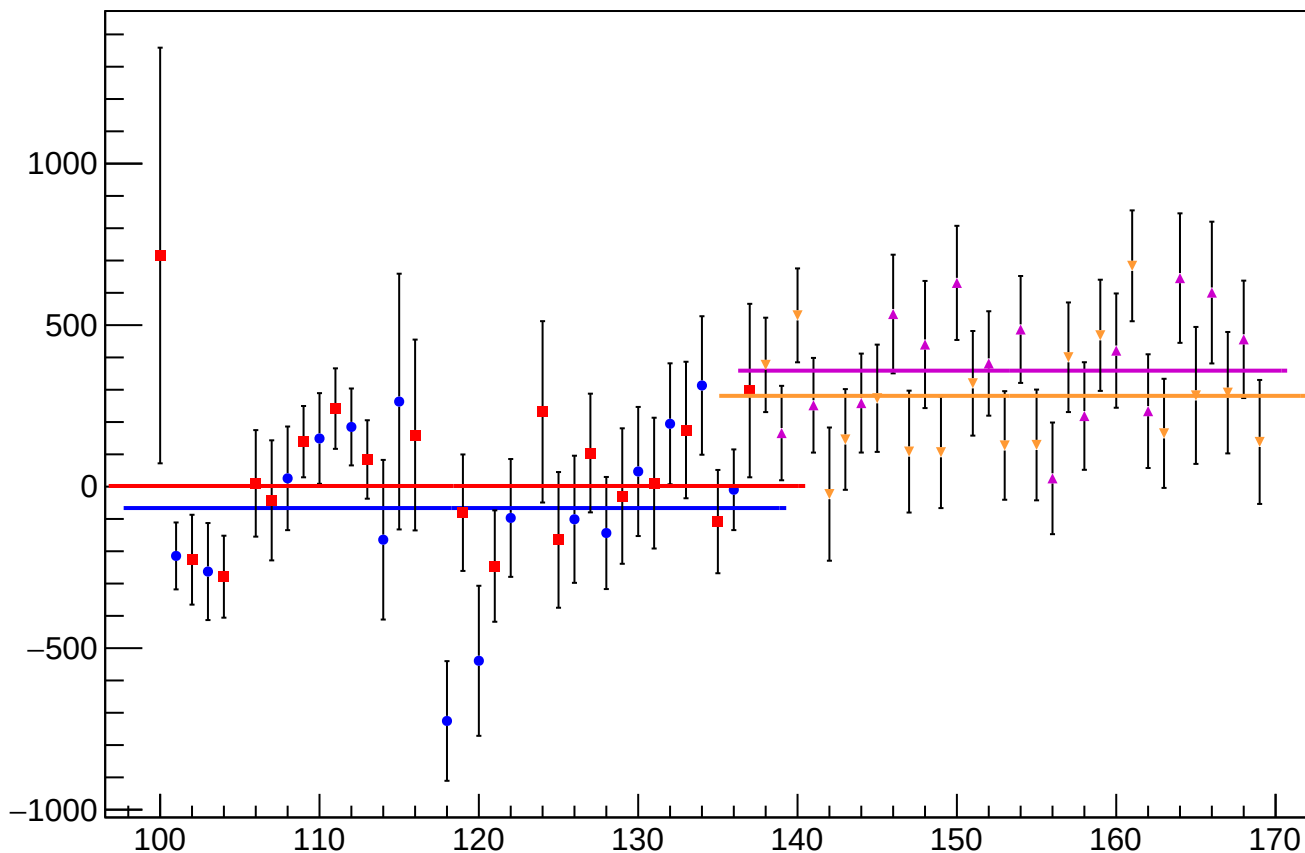
Right: 549.176 $\pm$ 0.116 χ^2 /NDF: 6757198.8/34

In: 718.719 $\pm$ 0.128 χ^2 /NDF: 7360388.8/30

Out: 743.052 $\pm$ 0.125 χ^2 /NDF: 6420538.0/35

All: 731.105 $\pm$ 0.089 χ^2 /NDF: 13799453.5/60

cor_asym_sam6_mean vs Slug, Sign Corrected



Right In: -66.256 ± 40.937 χ^2/NDF : 34.4/15

Left Out: 281.083 ± 41.544 χ^2/NDF : 18.0/16

Right Out: 2.062 ± 38.937 χ^2/NDF : 21.1/18

Left In: 359.067 ± 44.368 χ^2/NDF : 15.4/14

Left: 317.515 ± 30.325 χ^2/NDF : 35.1/31

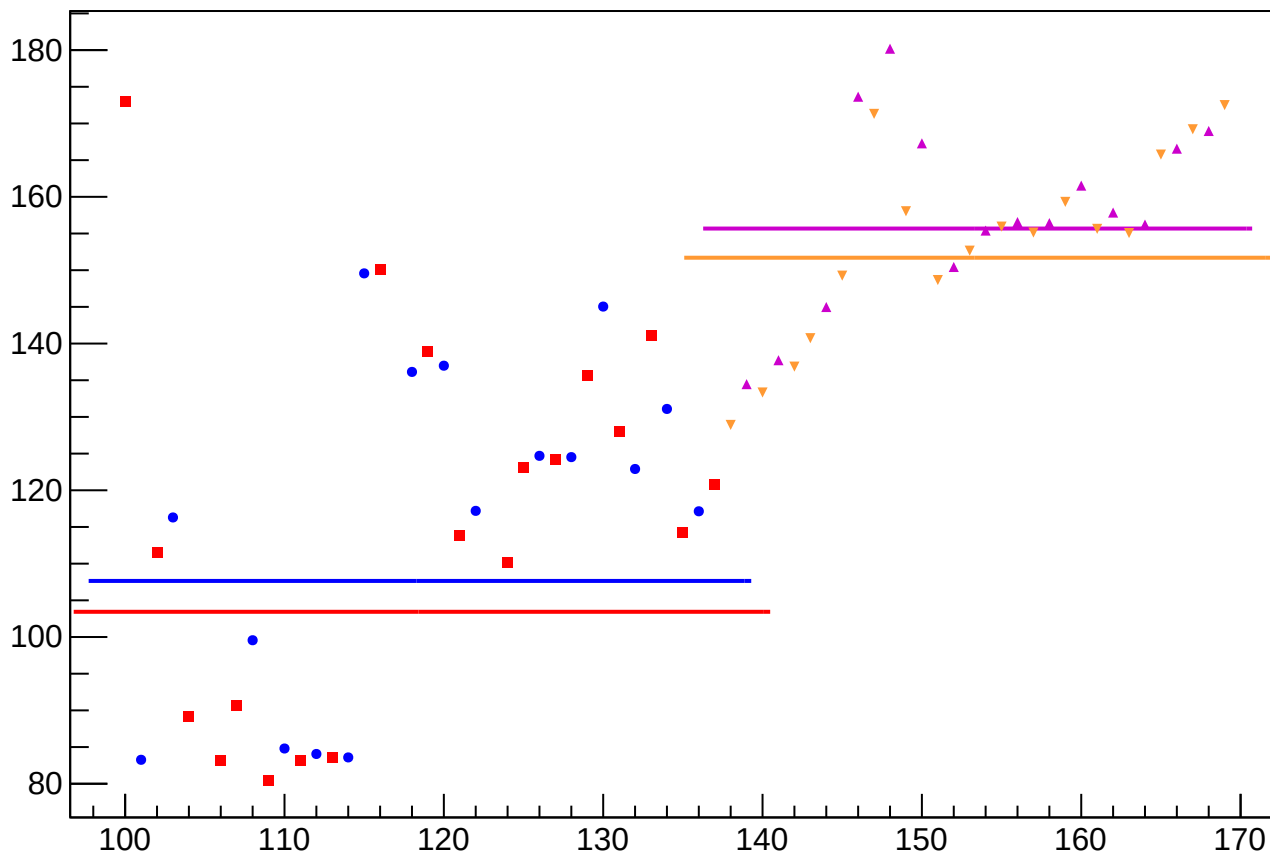
Right: -30.387 ± 28.213 χ^2/NDF : 57.0/34

In: 129.329 ± 30.087 χ^2/NDF : 99.4/30

Out: 132.542 ± 28.409 χ^2/NDF : 63.2/35

All: 131.028 ± 20.656 χ^2/NDF : 162.6/66

cor_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.644 ± 0.029 χ^2/NDF : 532822.8/15

Left Out: 151.700 ± 0.029 χ^2/NDF : 183792.2/16

Right Out: 103.438 ± 0.028 χ^2/NDF : 624750.2/18

Left In: 155.676 ± 0.031 χ^2/NDF : 161029.1/14

Left: 153.558 ± 0.021 χ^2/NDF : 353377.4/31

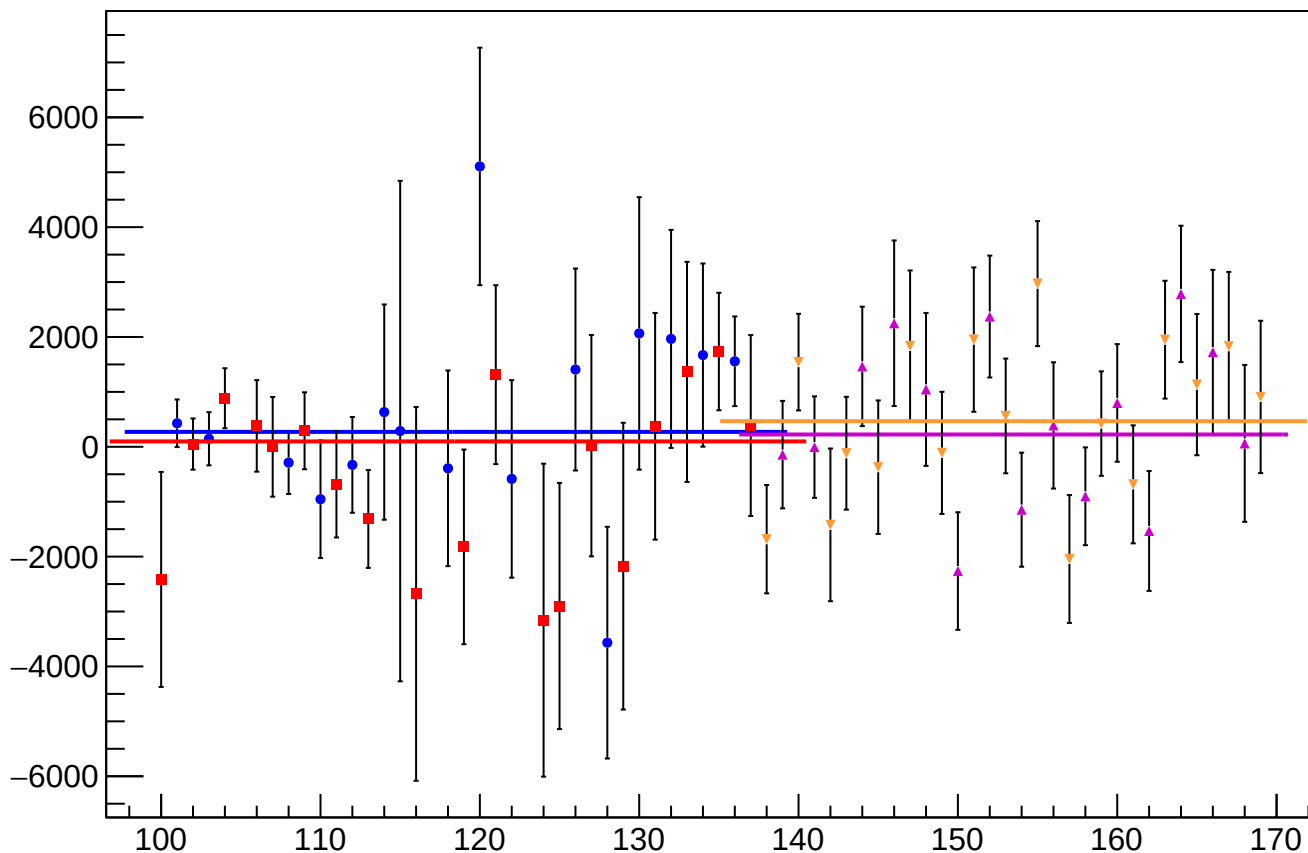
Right: 105.436 ± 0.020 χ^2/NDF : 1168660.2/34

In: 129.732 ± 0.021 χ^2/NDF : 1959954.0/30

Out: 126.007 ± 0.020 χ^2/NDF : 2245498.9/35

All: 127.763 ± 0.015 χ^2/NDF : 4221656.6/66

asym_sam6_cor_correction_mean vs Slug, Sign Corrected



Right In: 271.645 $\pm$ 230.655 χ^2 /NDF: 16.5/15

Left Out: 466.158 $\pm$ 274.086 χ^2 /NDF:25.4/16

Right Out: 97.847 $\pm$ 232.781 χ^2 /NDF: 16.1/18

Left In: 224.034 $\pm$ 289.412 χ^2 /NDF:24.3/14

Left: 351.677 $\pm$ 199.006 χ^2 /NDF: 50.0/31

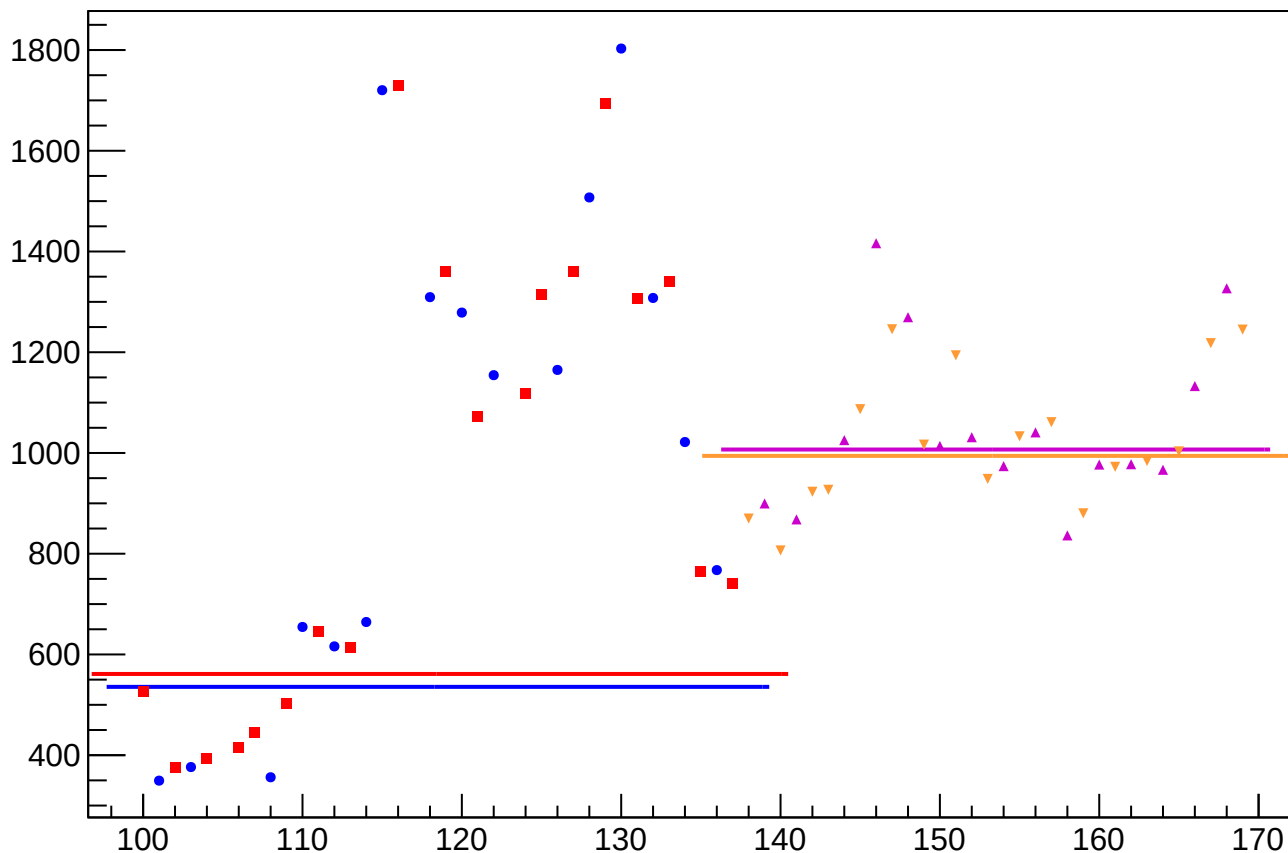
Right: 185.543 $\pm$ 163.844 χ^2 /NDF: 32.9/34

In: 253.151 $\pm$ 180.377 χ^2 /NDF:40.8/30

Out: 252.186 $\pm$ 177.426 χ^2 /NDF:42.6/35

All: 252.661 $\pm$ 126.490 χ^2 /NDF: 83.3/66

asym_sam6_cor_correction_rms vs Slug, Sign Corrected



Right In: 535.661 $\pm$ 0.163 χ^2 /NDF: 3632591.0/15

Left Out: 994.236 $\pm$ 0.194 χ^2 /NDF: 424690.5/16

Right Out: 561.270 $\pm$ 0.165 χ^2 /NDF: 3130760.7/18

Left In: 1006.866 $\pm$ 0.205 χ^2 /NDF: 486097.9/14

Left: 1000.207 $\pm$ 0.141 χ^2 /NDF: 912796.4/31

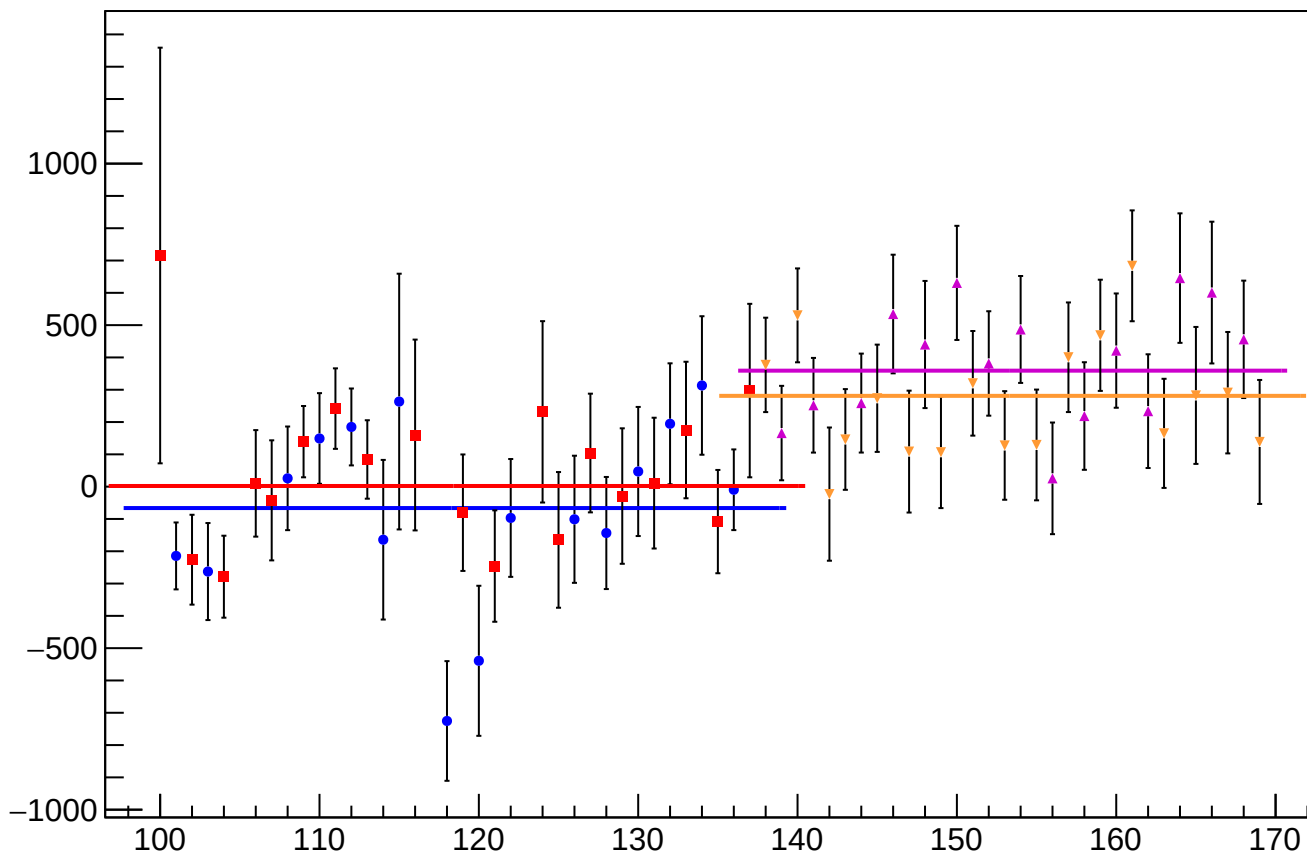
Right: 548.348 $\pm$ 0.116 χ^2 /NDF: 6775564.7/34

In: 718.699 $\pm$ 0.128 χ^2 /NDF: 7360969.5/30

Out: 742.703 $\pm$ 0.125 χ^2 /NDF: 6454829.5/35

All: 730.899 $\pm$ 0.089 χ^2 /NDF: 13833800.6/66

eigen_cor_asym_sam6_mean vs Slug, Sign Corrected



Right In: -66.256 ± 40.937 χ^2/NDF : 34.4/15

Left Out: 281.083 ± 41.544 χ^2/NDF : 18.0/16

Right Out: 2.062 ± 38.937 χ^2/NDF : 21.1/18

Left In: 359.067 ± 44.368 χ^2/NDF : 15.4/14

Left: 317.515 ± 30.325 χ^2/NDF : 35.1/31

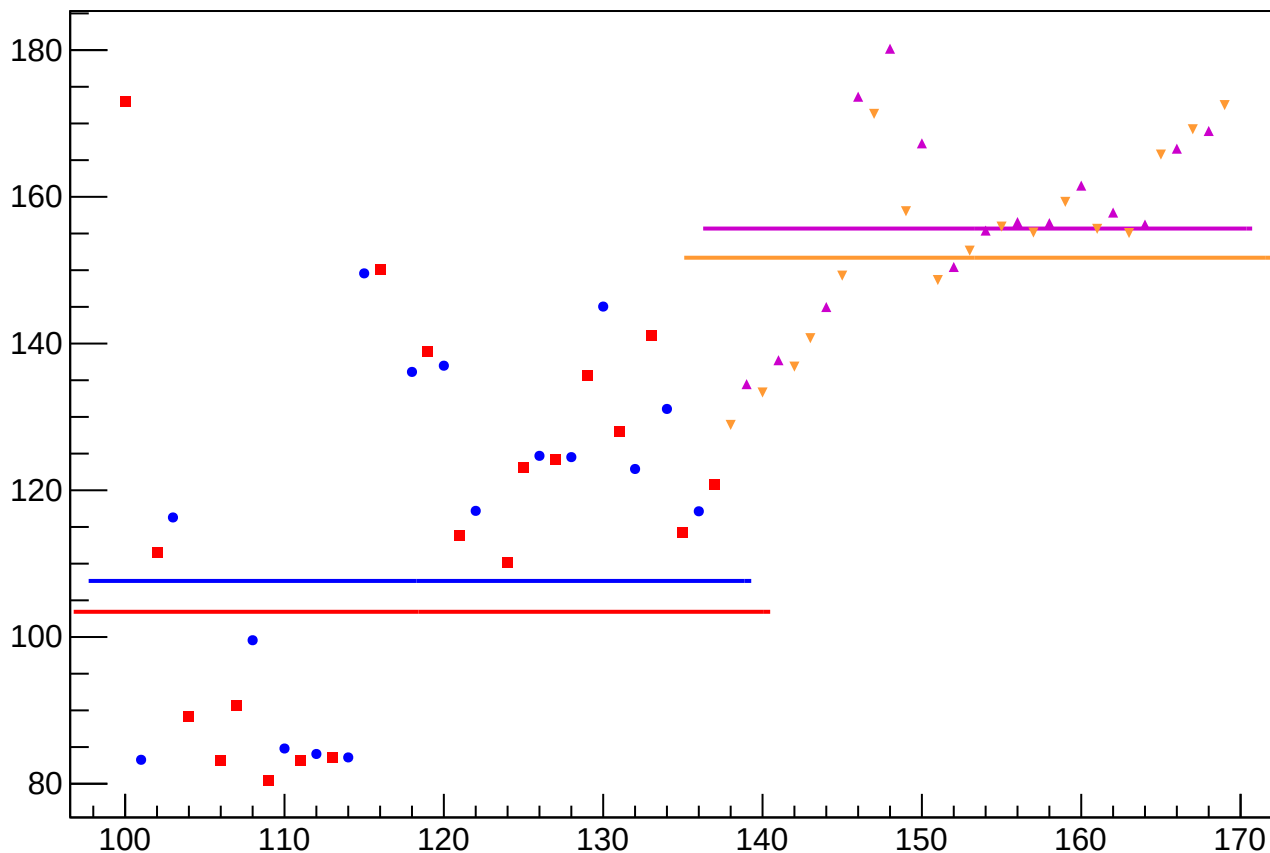
Right: -30.387 ± 28.213 χ^2/NDF : 57.0/34

In: 129.329 ± 30.087 χ^2/NDF : 99.4/30

Out: 132.542 ± 28.409 χ^2/NDF : 63.2/35

All: 131.028 ± 20.656 χ^2/NDF : 162.6/66

eigen_cor_asym_sam6_rms vs Slug, Sign Corrected



Right In: 107.644 $\pm$ 0.029 χ^2 /NDF: 532822.8/15

Left Out: 151.700 $\pm$ 0.029 χ^2 /NDF:183792.2/16

Right Out: 103.438 $\pm$ 0.028 χ^2 /NDF: 624750.2/18

Left In: 155.676 $\pm$ 0.031 χ^2 /NDF:161029.1/14

Left: 153.558 $\pm$ 0.021 χ^2 /NDF: 353377.4/31

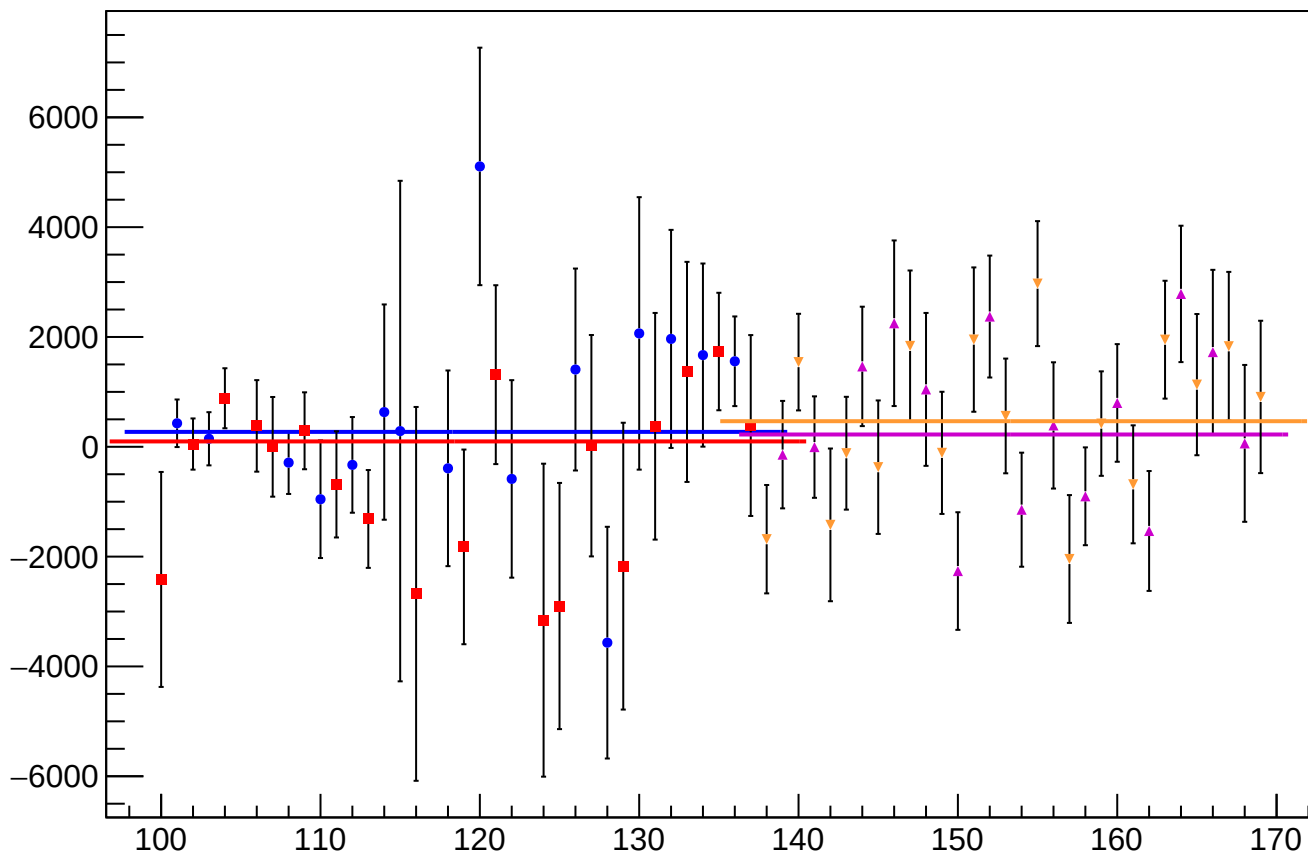
Right: 105.436 $\pm$ 0.020 χ^2 /NDF: 1168660.2/34

In: 129.732 $\pm$ 0.021 χ^2 /NDF:1959954.0/30

Out: 126.007 $\pm$ 0.020 χ^2 /NDF:2245498.9/35

All: 127.763 $\pm$ 0.015 χ^2 /NDF: 4221656.6/66

asym_sam6_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 271.645 $\pm$ 230.655 χ^2 /NDF: 16.5/15

Left Out: 466.158 $\pm$ 274.086 χ^2 /NDF:25.4/16

Right Out: 97.847 $\pm$ 232.781 χ^2 /NDF: 16.1/18

Left In: 224.034 $\pm$ 289.412 χ^2 /NDF:24.3/14

Left: 351.677 $\pm$ 199.006 χ^2 /NDF: 50.0/31

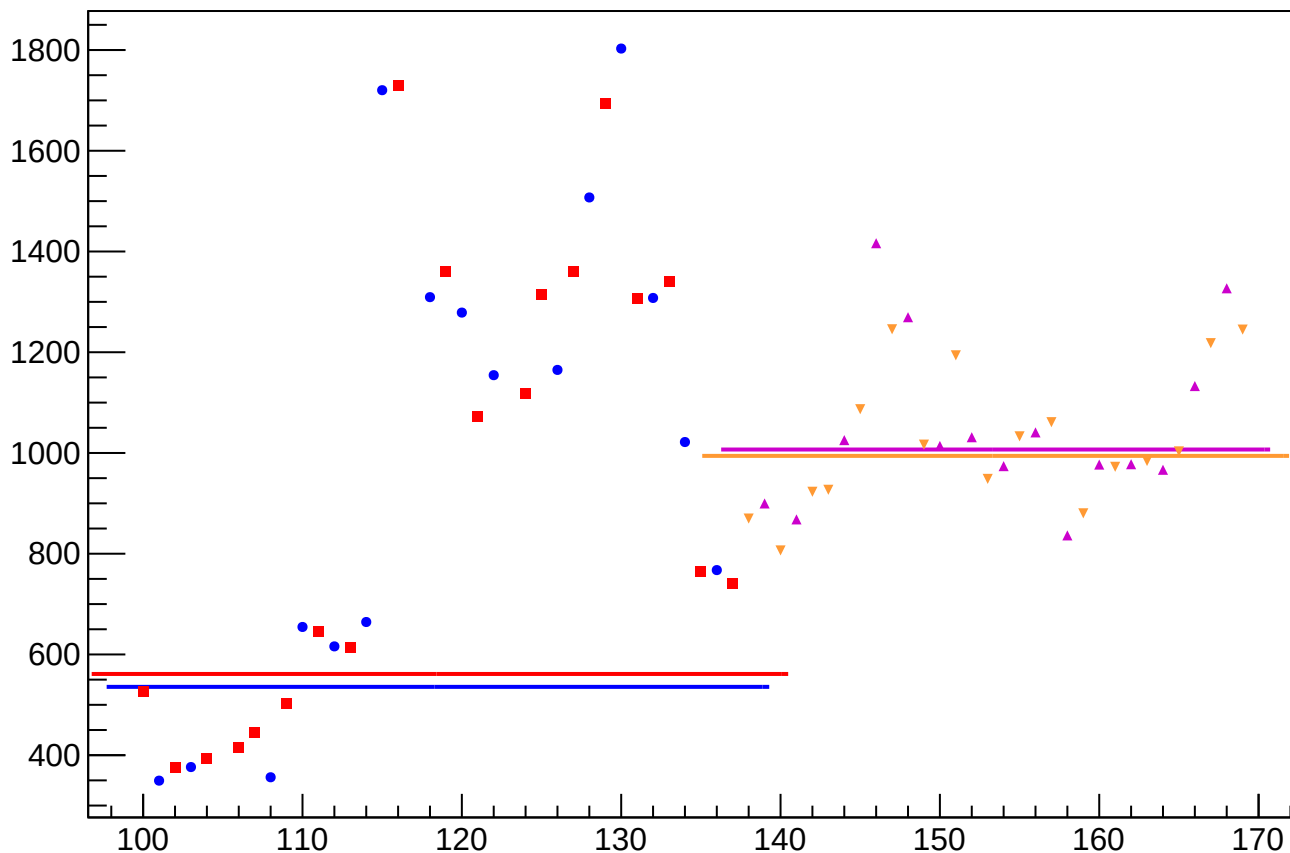
Right: 185.543 $\pm$ 163.844 χ^2 /NDF: 32.9/34

In: 253.151 $\pm$ 180.377 χ^2 /NDF:40.8/30

Out: 252.186 $\pm$ 177.426 χ^2 /NDF:42.6/35

All: 252.661 $\pm$ 126.490 χ^2 /NDF: 83.3/66

asym_sam6_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 535.661 $\pm$ 0.163 χ^2 /NDF: 3632591.0/15

Left Out: 994.236 $\pm$ 0.194 χ^2 /NDF: 424690.5/16

Right Out: 561.270 $\pm$ 0.165 χ^2 /NDF: 3130760.7/18

Left In: 1006.866 $\pm$ 0.205 χ^2 /NDF: 486097.9/14

Left: 1000.207 $\pm$ 0.141 χ^2 /NDF: 912796.4/31

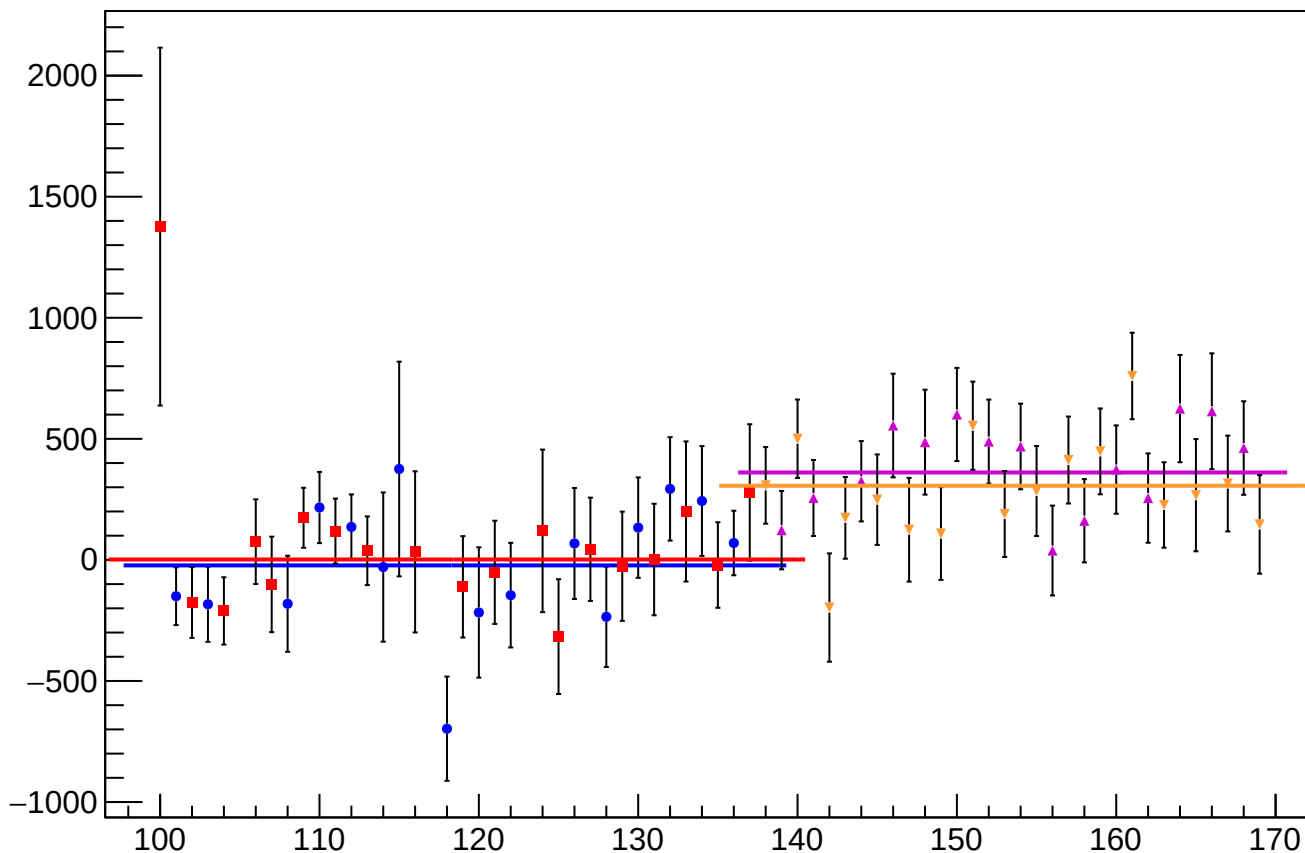
Right: 548.348 $\pm$ 0.116 χ^2 /NDF: 6775564.7/34

In: 718.699 $\pm$ 0.128 χ^2 /NDF: 7360969.5/30

Out: 742.703 $\pm$ 0.125 χ^2 /NDF: 6454829.5/35

All: 730.899 $\pm$ 0.089 χ^2 /NDF: 13833800.6/66

dit_asym_sam6_mean vs Slug, Sign Corrected



Right In: -22.678 ± 45.908 χ^2/NDF : 24.2/15

Left Out: 306.356 ± 44.885 χ^2/NDF : 19.6/16

Right Out: 1.600 ± 43.563 χ^2/NDF : 14.3/18

Left In: 361.140 ± 47.816 χ^2/NDF : 13.8/14

Left: 332.018 ± 32.726 χ^2/NDF : 34.1/31

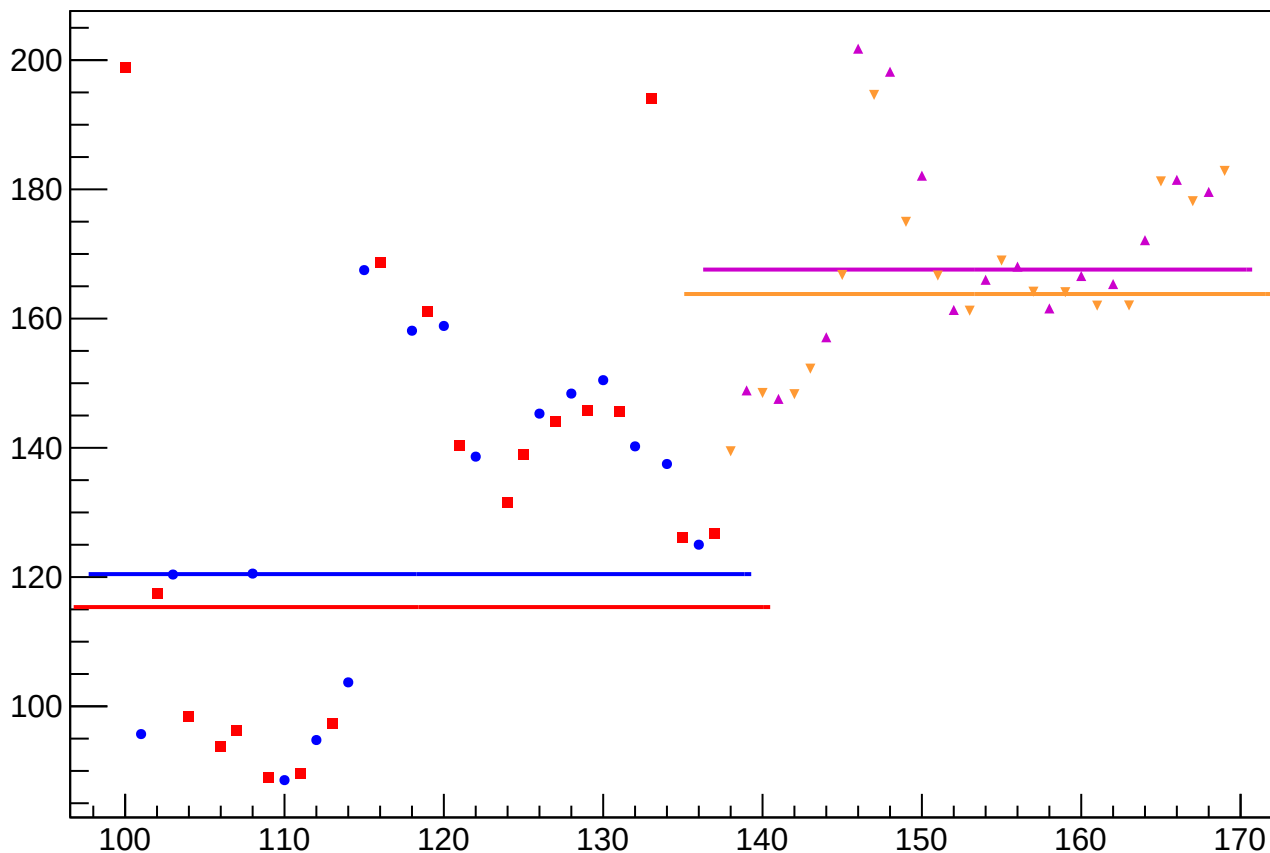
Right: -9.903 ± 31.600 χ^2/NDF : 38.6/34

In: 161.421 ± 33.116 χ^2/NDF : 71.5/30

Out: 149.423 ± 31.261 χ^2/NDF : 57.6/35

All: 155.076 ± 22.732 χ^2/NDF : 129.2/66

dit_asym_sam6_rms vs Slug, Sign Corrected



Right In: 120.458+/-0.032 χ^2/NDF : 530331.6/15

Left Out: 163.804+/-0.032 χ^2/NDF : 175130.0/16

Right Out: 115.357+/-0.031 χ^2/NDF : 767236.0/18

Left In: 167.586+/-0.034 χ^2/NDF : 190378.9/14

Left: 165.576+/-0.023 χ^2/NDF : 372159.4/31

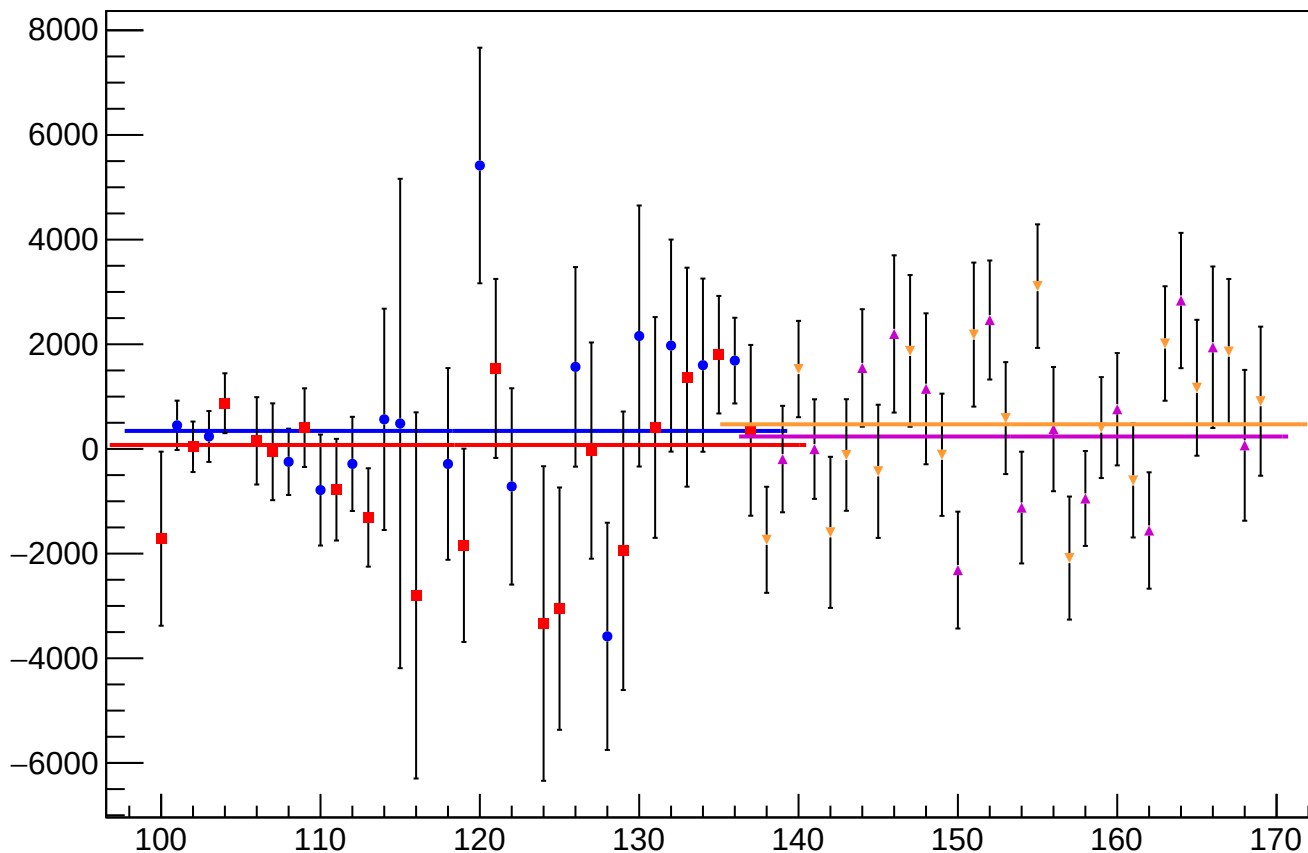
Right: 117.774+/-0.022 χ^2/NDF : 1310562.3/34

In: 143.063+/-0.023 χ^2/NDF : 1731655.5/30

Out: 138.857+/-0.022 χ^2/NDF : 2142208.9/35

All: 140.839+/-0.016 χ^2/NDF : 3890929.3/66

asym_sam6_dit_correction_mean vs Slug, Sign Corrected



Right In: 344.437 $\pm$ 241.532 χ^2 /NDF: 16.2/15

Left Out: 470.874 $\pm$ 282.363 χ^2 /NDF:25.7/16

Right Out: 75.434 $\pm$ 240.479 χ^2 /NDF: 15.3/18

Left In: 237.342 $\pm$ 296.923 χ^2 /NDF:24.2/14

Left: 359.974 $\pm$ 204.614 χ^2 /NDF: 50.3/31

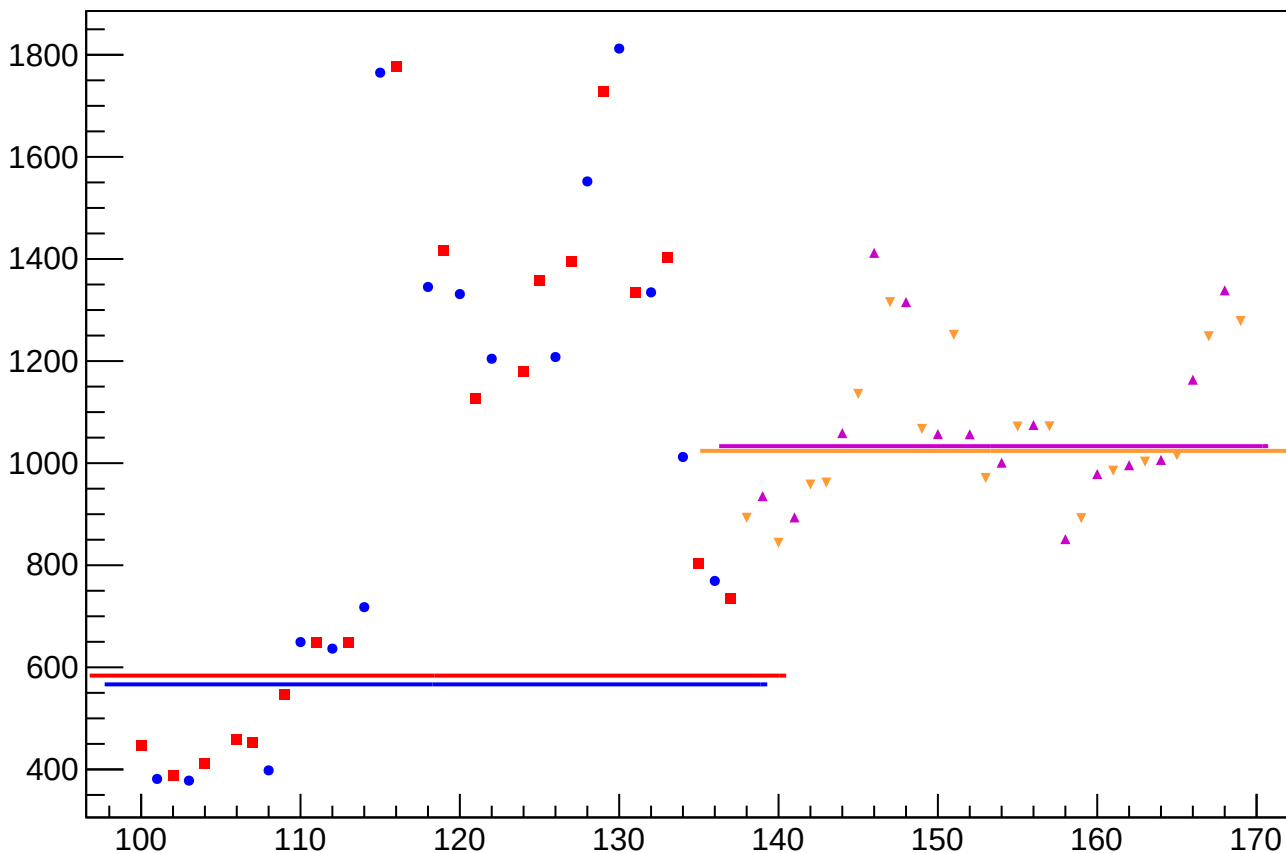
Right: 209.348 $\pm$ 170.415 χ^2 /NDF: 32.1/34

In: 301.791 $\pm$ 187.369 χ^2 /NDF:40.5/30

Out: 241.678 $\pm$ 183.080 χ^2 /NDF:42.1/35

All: 271.039 $\pm$ 130.947 χ^2 /NDF: 82.7/66

asym_sam6_dit_correction_rms vs Slug, Sign Corrected



Right In: 566.603 $\pm$ 0.171 χ^2 /NDF: 3432440.2/15

Left Out: 1024.046 $\pm$ 0.200 χ^2 /NDF: 442879.8/16

Right Out: 583.794 $\pm$ 0.170 χ^2 /NDF: 3107513.6/18

Left In: 1033.308 $\pm$ 0.210 χ^2 /NDF: 465184.9/14

Left: 1028.445 $\pm$ 0.145 χ^2 /NDF: 909086.6/31

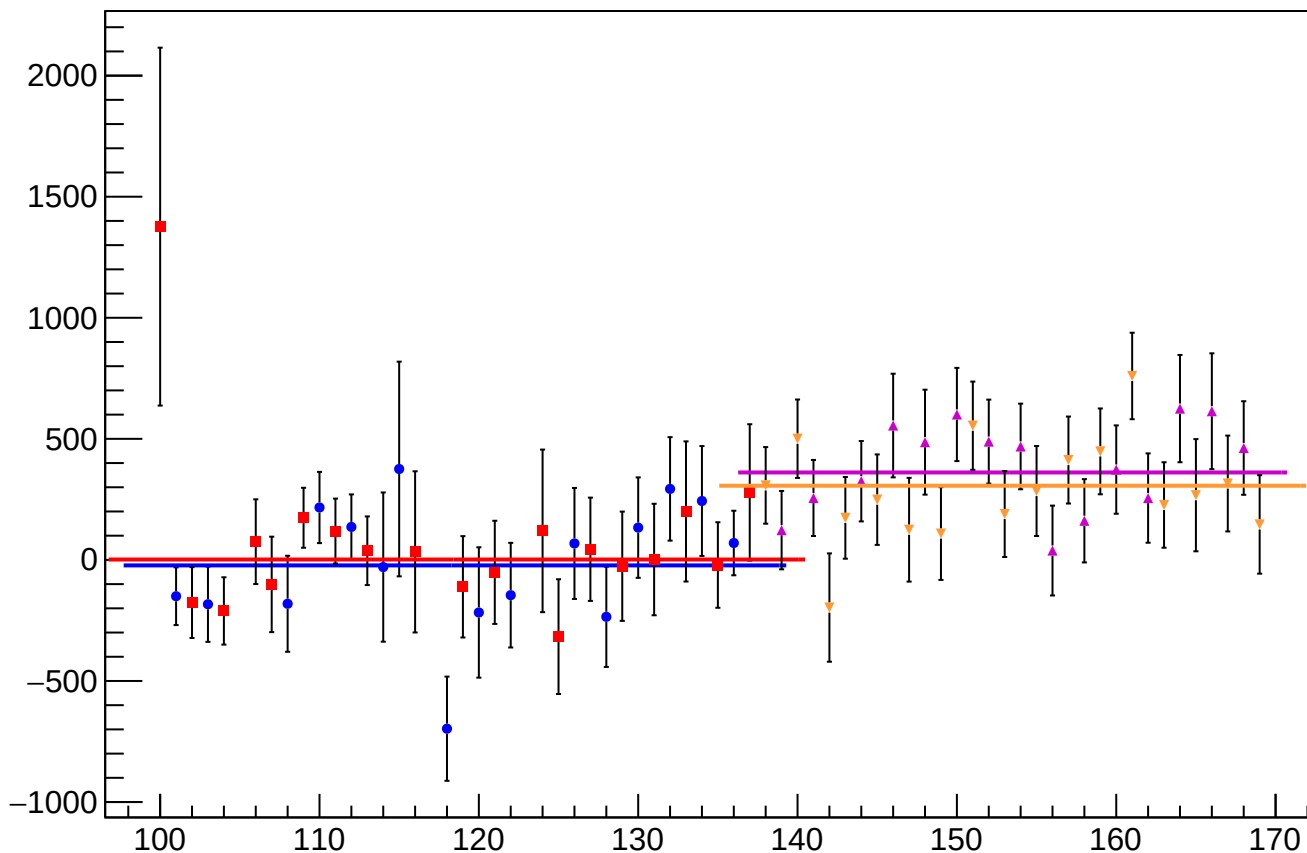
Right: 575.236 $\pm$ 0.121 χ^2 /NDF: 6545041.6/34

In: 752.448 $\pm$ 0.132 χ^2 /NDF: 6871175.3/30

Out: 768.878 $\pm$ 0.129 χ^2 /NDF: 6368418.7/35

All: 760.853 $\pm$ 0.093 χ^2 /NDF: 13247460.6/66

eigen_dit_asym_sam6_mean vs Slug, Sign Corrected



Right In: -22.680 ± 45.908 χ^2/NDF : 24.2/15

Left Out: 306.357 ± 44.885 χ^2/NDF : 19.6/16

Right Out: 1.601 ± 43.563 χ^2/NDF : 14.3/18

Left In: 361.141 ± 47.816 χ^2/NDF : 13.8/14

Left: 332.019 ± 32.726 χ^2/NDF : 34.1/31

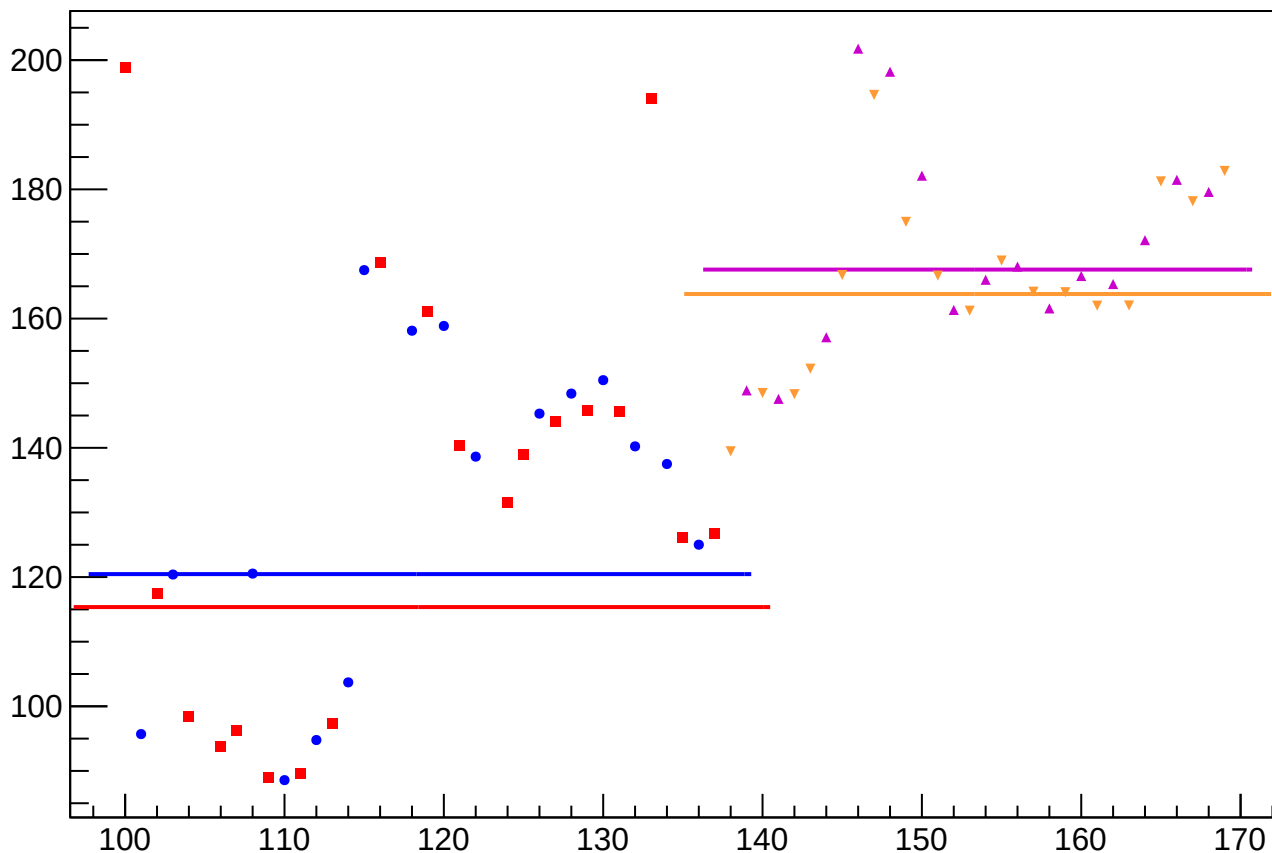
Right: -9.903 ± 31.600 χ^2/NDF : 38.6/34

In: 161.420 ± 33.116 χ^2/NDF : 71.5/30

Out: 149.424 ± 31.261 χ^2/NDF : 57.6/35

All: 155.077 ± 22.732 χ^2/NDF : 129.2/66

eigen_dit_asym_sam6_rms vs Slug, Sign Corrected



Right In: 120.458+/-0.032 χ^2/NDF : 530335.0/15

Left Out: 163.804+/-0.032 χ^2/NDF :175128.7/16

Right Out: 115.357+/-0.031 χ^2/NDF : 767234.8/18

Left In: 167.586+/-0.034 χ^2/NDF :190378.5/14

Left: 165.576+/-0.023 χ^2/NDF : 372157.8/31

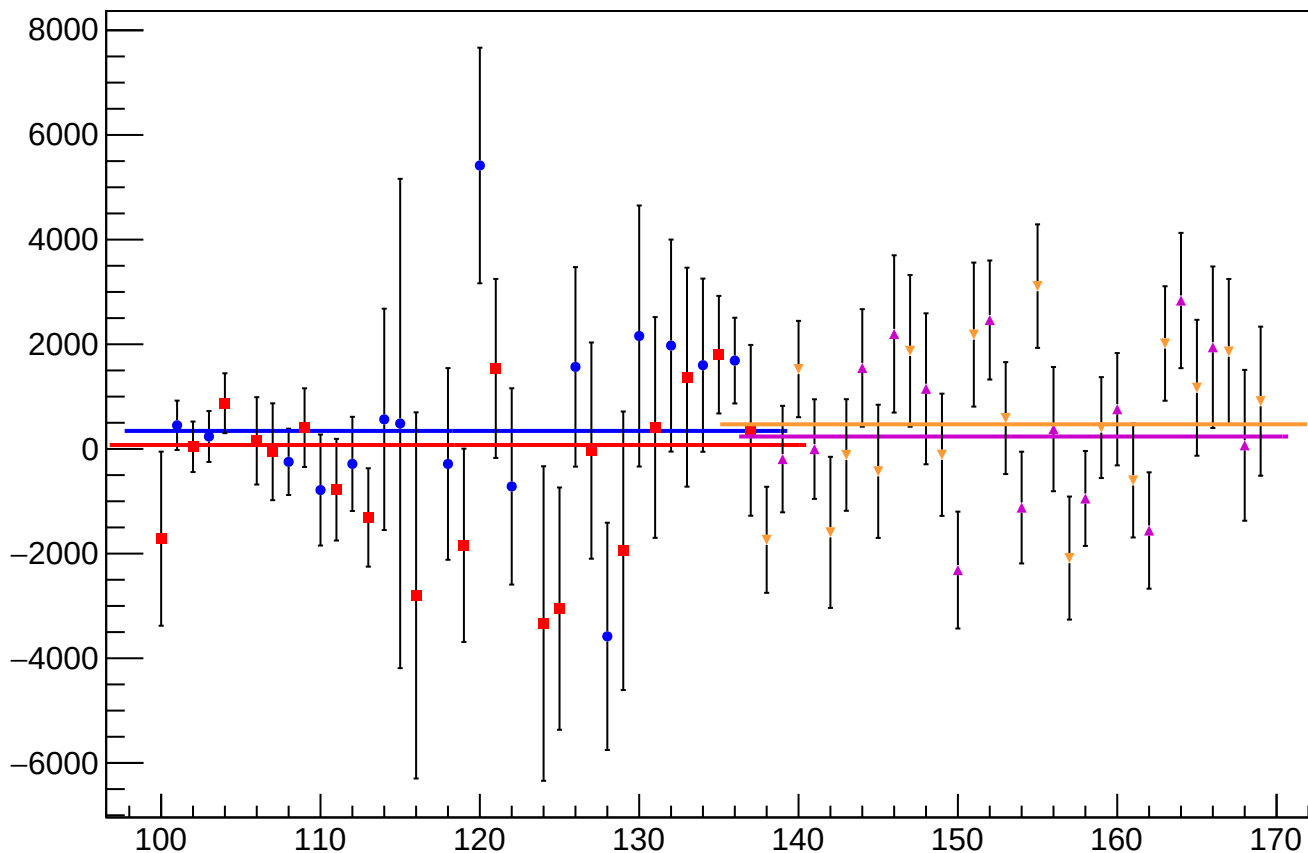
Right: 117.774+/-0.022 χ^2/NDF : 1310564.2/34

In: 143.063+/-0.023 χ^2/NDF :1731664.4/30

Out: 138.856+/-0.022 χ^2/NDF :2142208.8/35

All: 140.838+/-0.016 χ^2/NDF : 3890937.8/66

asym_sam6_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 344.436 $\pm$ 241.531 χ^2 /NDF: 16.2/15

Left Out: 470.875 $\pm$ 282.363 χ^2 /NDF:25.7/16

Right Out: 75.435 $\pm$ 240.479 χ^2 /NDF: 15.3/18

Left In: 237.342 $\pm$ 296.923 χ^2 /NDF:24.2/14

Left: 359.974 $\pm$ 204.614 χ^2 /NDF: 50.3/31

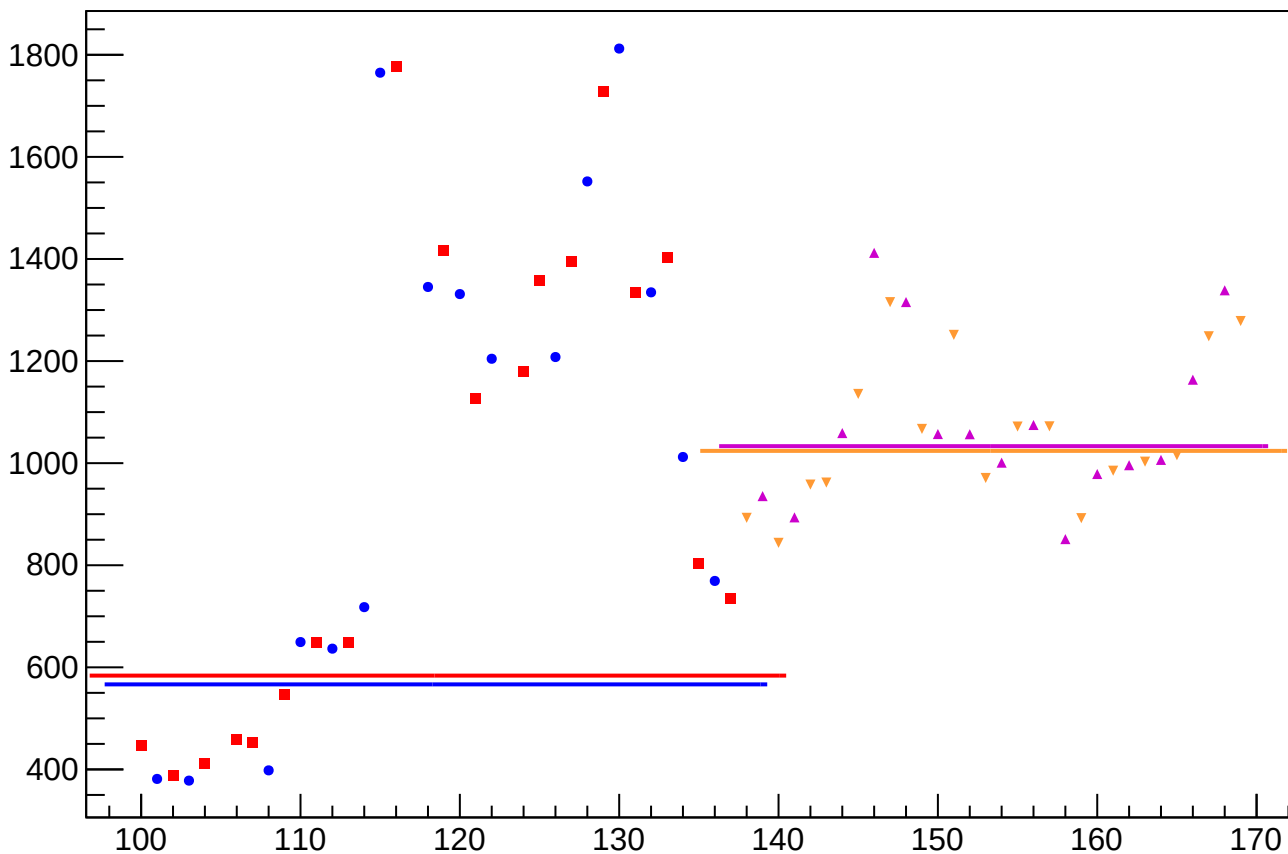
Right: 209.348 $\pm$ 170.415 χ^2 /NDF: 32.1/34

In: 301.791 $\pm$ 187.369 χ^2 /NDF:40.5/30

Out: 241.679 $\pm$ 183.080 χ^2 /NDF:42.1/35

All: 271.039 $\pm$ 130.947 χ^2 /NDF: 82.7/66

asym_sam6_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 566.603 $\pm$ 0.171 χ^2 /NDF: 3432444.7/15

Left Out: 1024.046 $\pm$ 0.200 χ^2 /NDF: 442882.1/16

Right Out: 583.794 $\pm$ 0.170 χ^2 /NDF: 3107513.8/18

Left In: 1033.308 $\pm$ 0.210 χ^2 /NDF: 465188.0/14

Left: 1028.445 $\pm$ 0.145 χ^2 /NDF: 909091.9/31

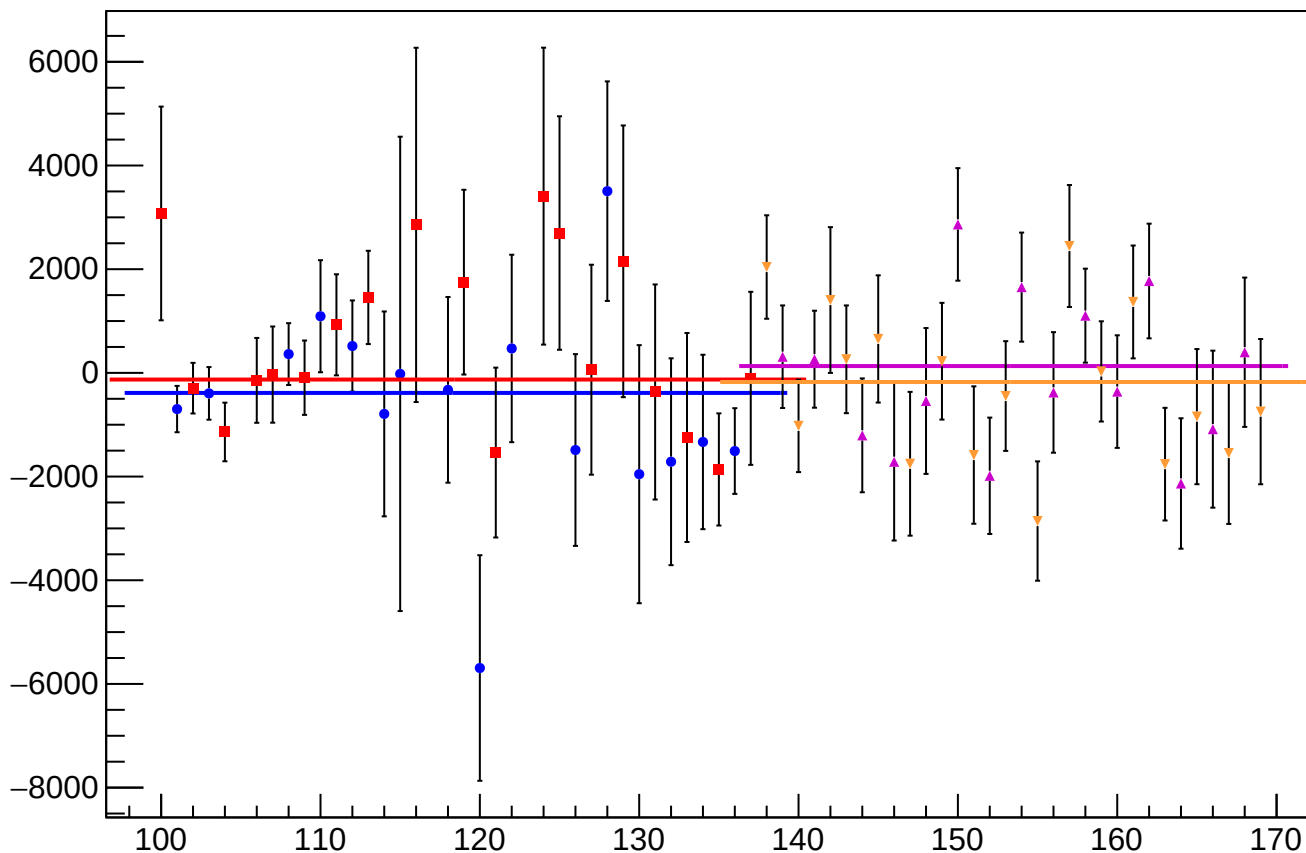
Right: 575.236 $\pm$ 0.121 χ^2 /NDF: 6545046.5/34

In: 752.448 $\pm$ 0.132 χ^2 /NDF: 6871192.6/30

Out: 768.877 $\pm$ 0.129 χ^2 /NDF: 6368428.5/35

All: 760.853 $\pm$ 0.093 χ^2 /NDF: 13247487.9/66

asym_sam6_mean vs Slug, Sign Corrected



Right In: -386.522 ± 237.525 $\chi^2/\text{NDF}: 17.9/15$

Left Out: -175.492 ± 277.358 $\chi^2/\text{NDF}: 26.4/16$

Right Out: -128.583 ± 238.241 $\chi^2/\text{NDF}: 19.4/18$

Left In: 131.485 ± 292.973 $\chi^2/\text{NDF}: 22.9/14$

Left: -30.402 ± 201.416 $\chi^2/\text{NDF}: 49.8/31$

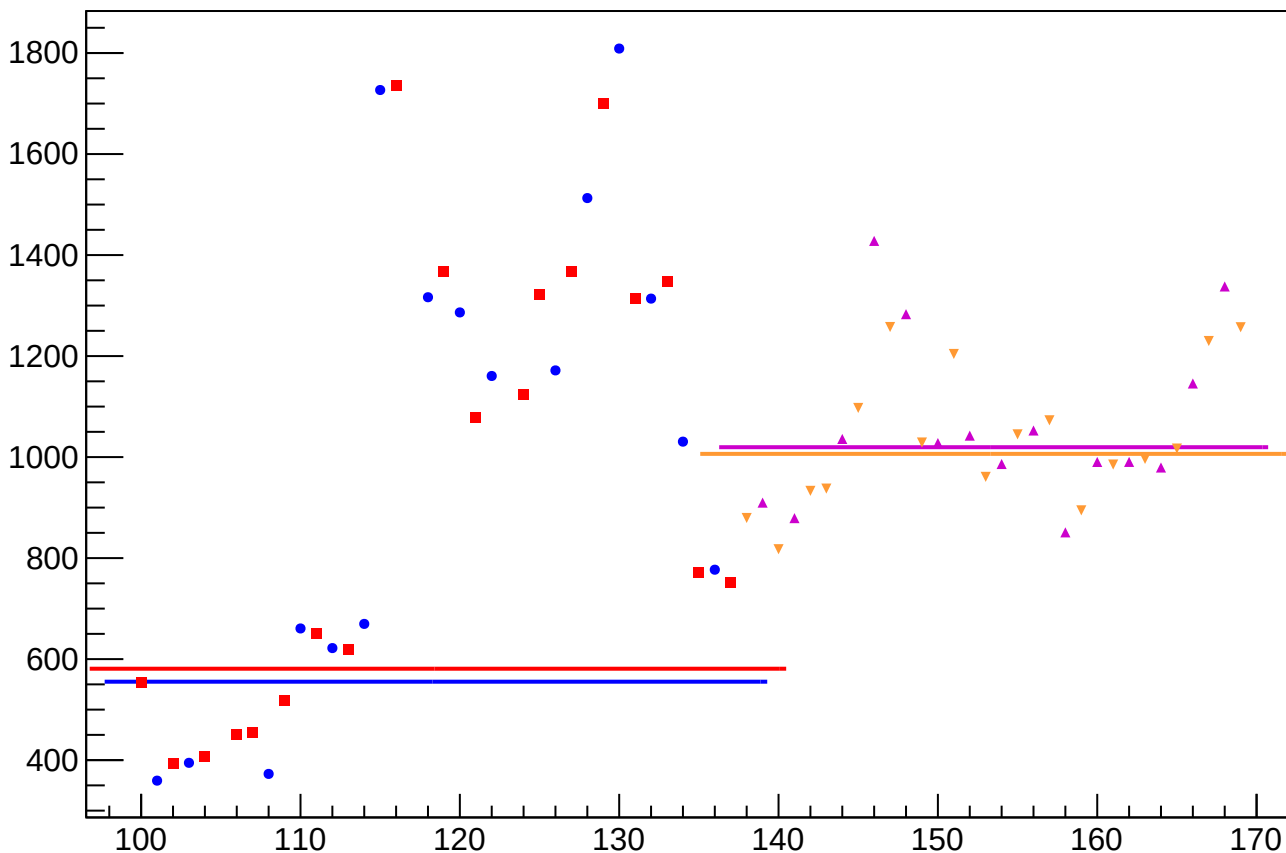
Right: -257.941 ± 168.208 $\chi^2/\text{NDF}: 37.9/34$

In: -181.076 ± 184.505 $\chi^2/\text{NDF}: 42.7/30$

Out: -148.499 ± 180.723 $\chi^2/\text{NDF}: 45.8/35$

All: -164.450 ± 129.107 $\chi^2/\text{NDF}: 88.5/66$

asym_sam6_rms vs Slug, Sign Corrected



Right In: 555.292 ± 0.168 $\chi^2/\text{NDF}: 3482531.0/15$

Left Out: 1006.363 ± 0.196 $\chi^2/\text{NDF}: 415710.8/16$

Right Out: 580.996 ± 0.168 $\chi^2/\text{NDF}: 2983560.8/18$

Left In: 1019.576 ± 0.207 $\chi^2/\text{NDF}: 474854.4/14$

Left: 1012.608 ± 0.142 $\chi^2/\text{NDF}: 892710.4/31$

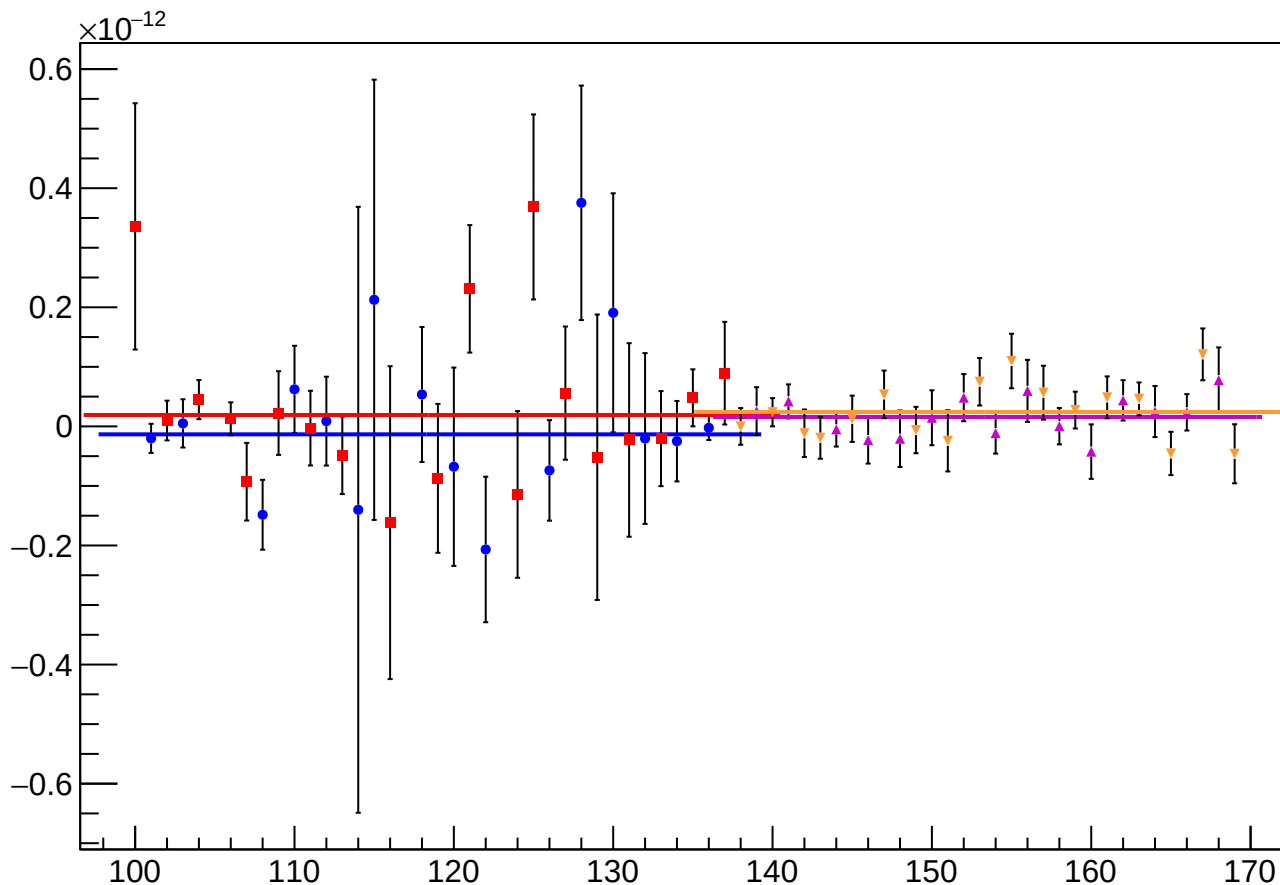
Right: 568.105 ± 0.119 $\chi^2/\text{NDF}: 6477767.0/34$

In: 739.431 ± 0.130 $\chi^2/\text{NDF}: 6988078.3/30$

Out: 761.593 ± 0.128 $\chi^2/\text{NDF}: 6106170.4/35$

All: 750.741 ± 0.091 $\chi^2/\text{NDF}: 13108974.8/66$

asym_sam6_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 15.9/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 22.5/16$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 19.9/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 8.9/14$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 31.8/31$

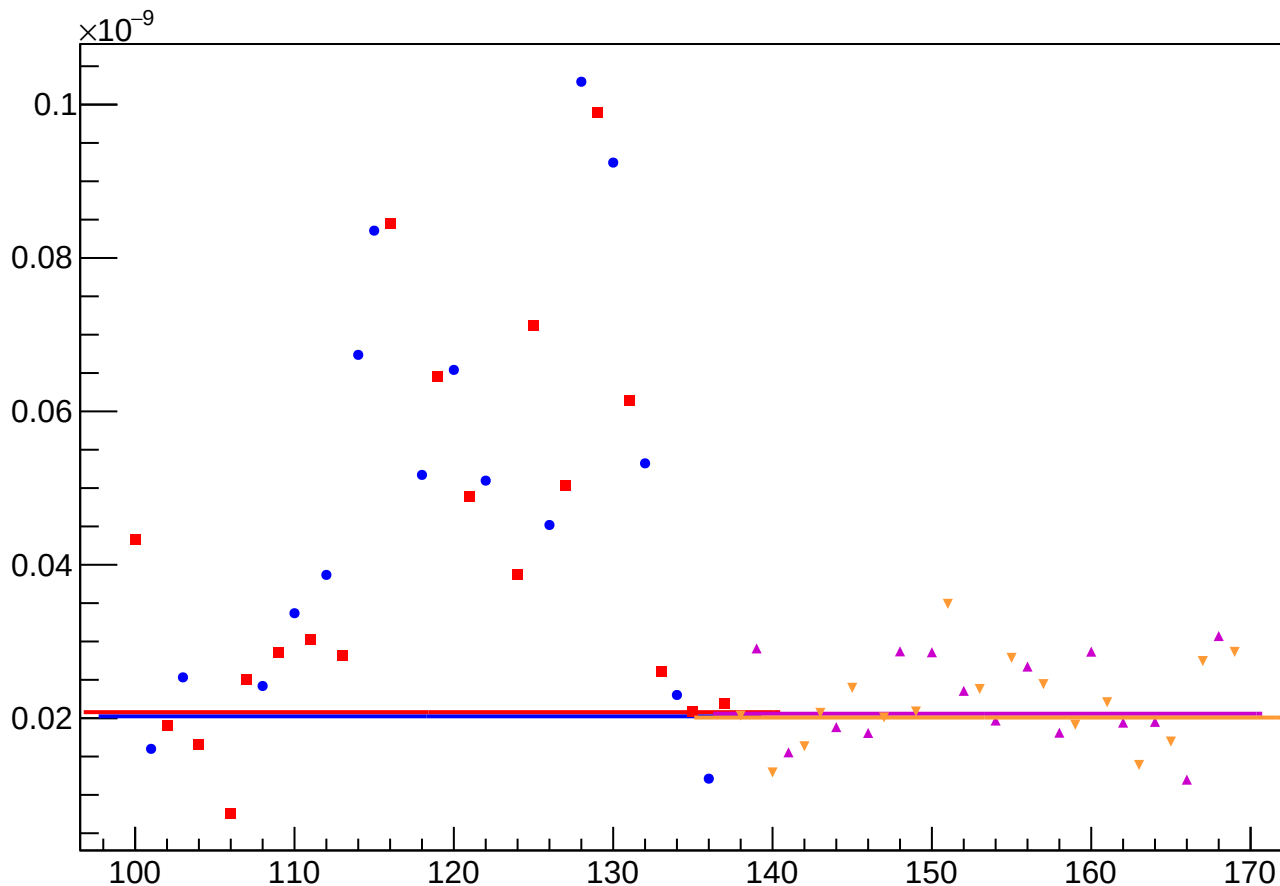
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 38.7/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 28.1/30$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 42.4/35$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 73.1/66$

asym_sam6_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2004678.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 722503.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1855885.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 631334.5/14

Left: 0.000+/-0.000 χ^2/NDF : 1356788.2/31

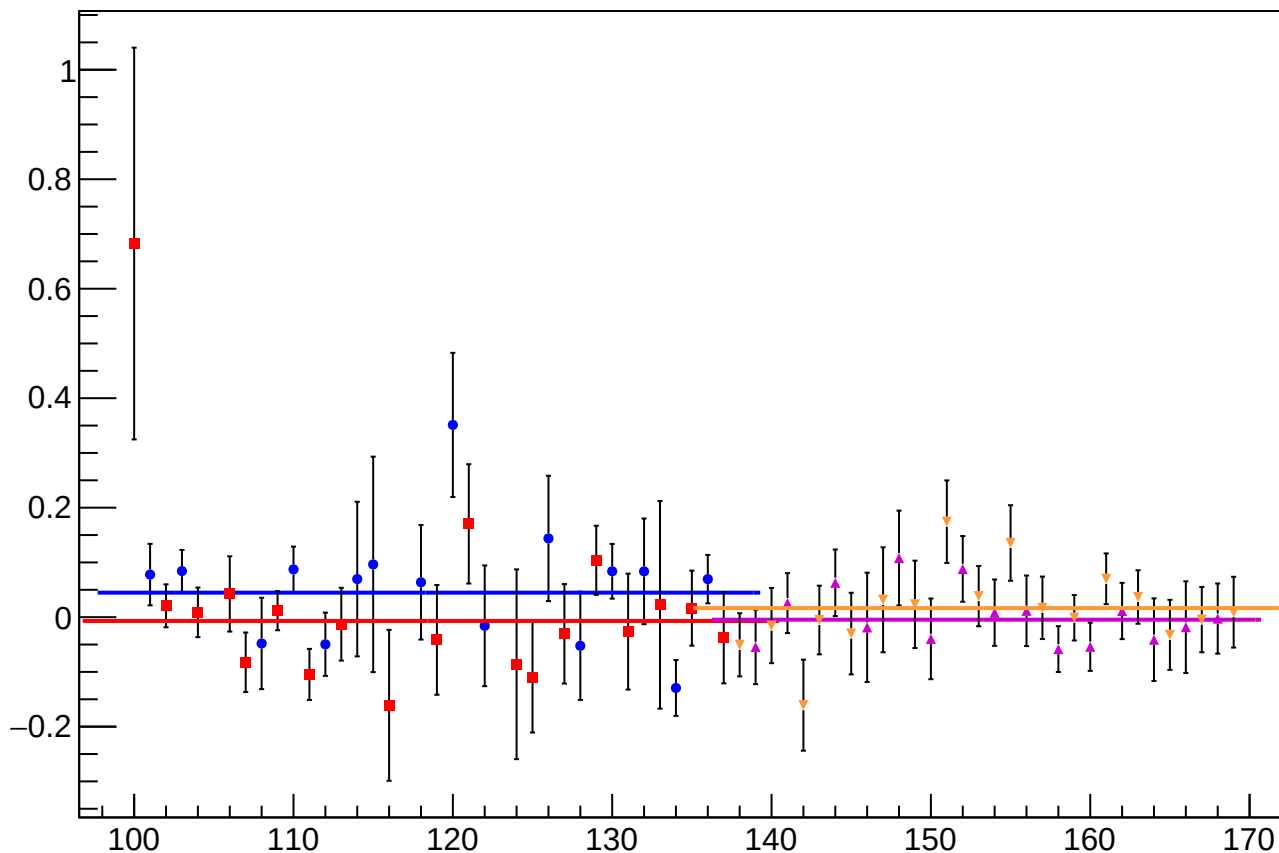
Right: 0.000+/-0.000 χ^2/NDF : 3862189.3/34

In: 0.000+/-0.000 χ^2/NDF : 2636888.8/30

Out: 0.000+/-0.000 χ^2/NDF : 2582064.0/35

All: 0.000+/-0.000 χ^2/NDF : 5219513.3/66

asym_sam6_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.045 ± 0.016 χ^2/NDF : 26.6/15

Left Out: 0.017 ± 0.015 χ^2/NDF : 16.6/16

Right Out: -0.007 ± 0.015 χ^2/NDF : 20.2/18

Left In: -0.005 ± 0.016 χ^2/NDF : 9.8/14

Left: 0.007 ± 0.011 χ^2/NDF : 27.3/31

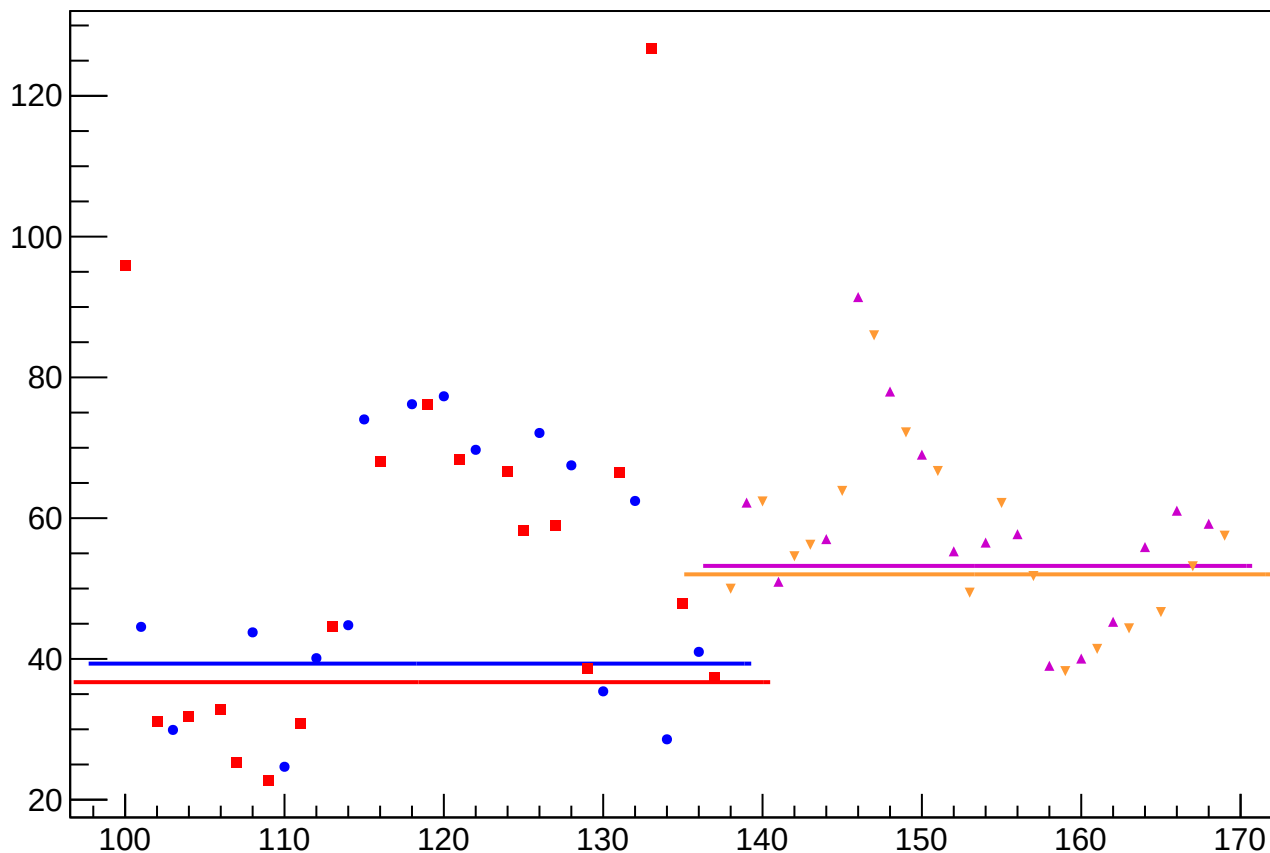
Right: 0.017 ± 0.011 χ^2/NDF : 52.3/34

In: 0.020 ± 0.011 χ^2/NDF : 41.2/30

Out: 0.005 ± 0.011 χ^2/NDF : 38.0/35

All: 0.012 ± 0.008 χ^2/NDF : 80.1/66

asym_sam6_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 39.335+/-0.011 χ^2/NDF : 1566525.1/15

Left Out: 52.017+/-0.010 χ^2/NDF : 1013736.5/16

Right Out: 36.700+/-0.011 χ^2/NDF : 2096756.0/18

Left In: 53.218+/-0.011 χ^2/NDF : 1106499.2/14

Left: 52.579+/-0.008 χ^2/NDF : 2126454.5/31

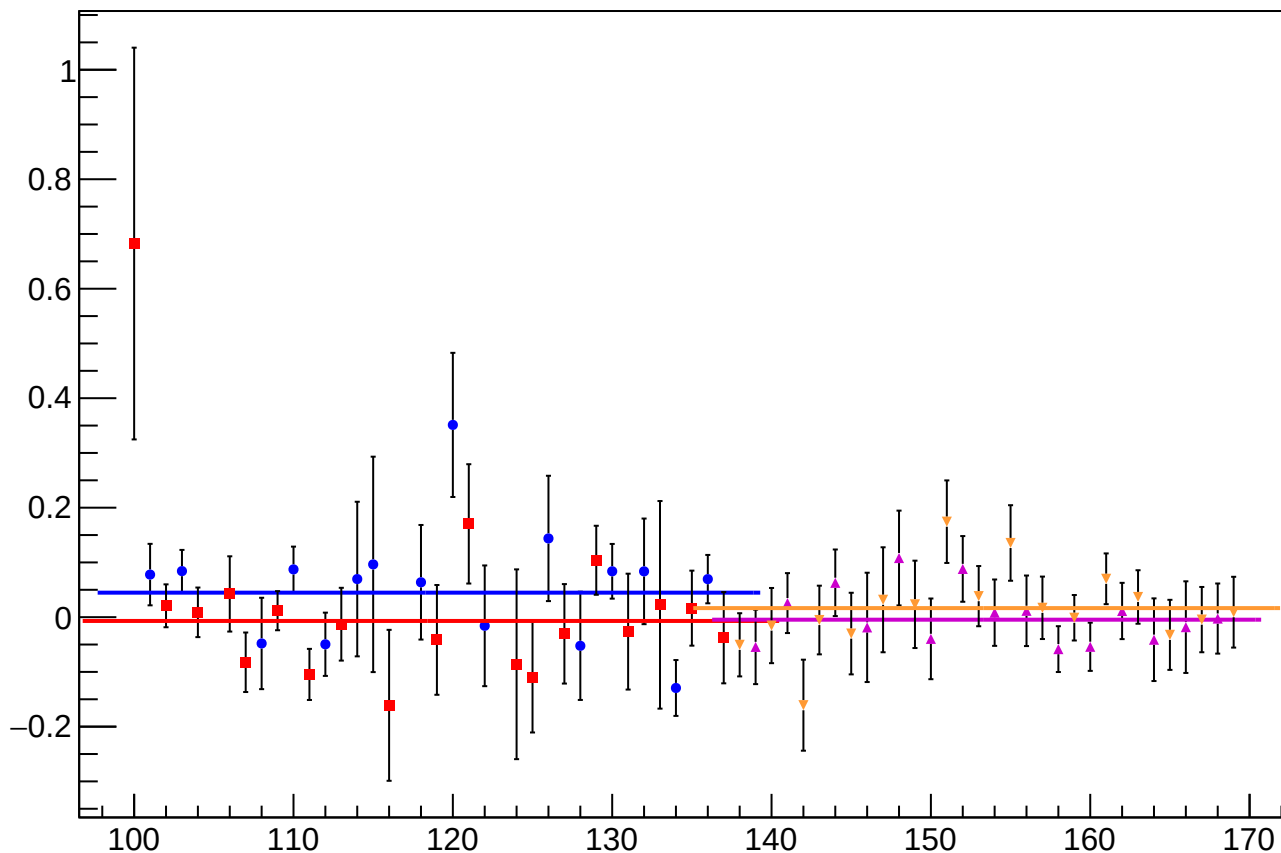
Right: 37.940+/-0.008 χ^2/NDF : 3691907.9/34

In: 46.415+/-0.008 χ^2/NDF : 3438918.2/30

Out: 44.554+/-0.007 χ^2/NDF : 4164255.5/35

All: 45.428+/-0.005 χ^2/NDF : 7632403.9/66

asym_sam6_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.045 ± 0.016 χ^2/NDF : 26.6/15

Left Out: 0.017 ± 0.015 χ^2/NDF : 16.6/16

Right Out: -0.007 ± 0.015 χ^2/NDF : 20.2/18

Left In: -0.005 ± 0.016 χ^2/NDF : 9.8/14

Left: 0.007 ± 0.011 χ^2/NDF : 27.3/31

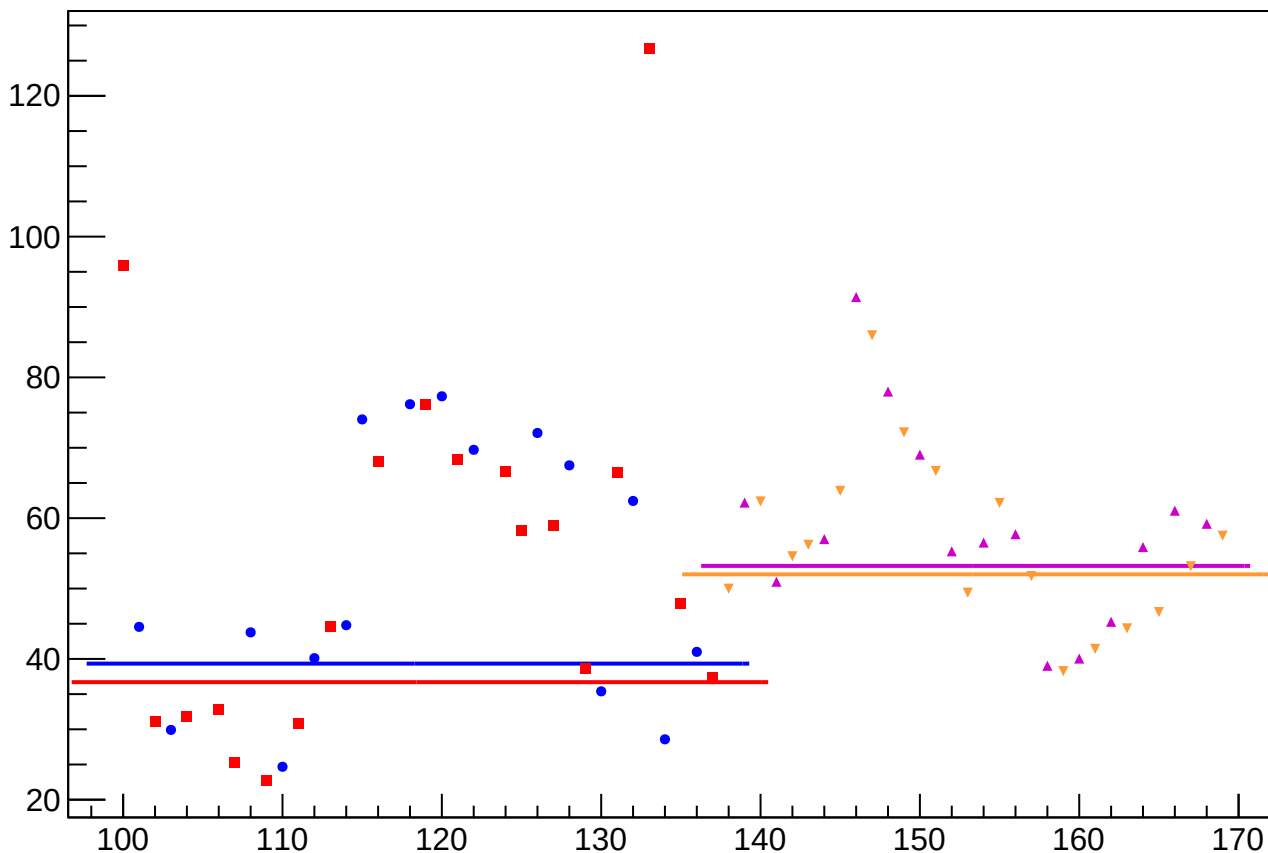
Right: 0.017 ± 0.011 χ^2/NDF : 52.3/34

In: 0.020 ± 0.011 χ^2/NDF : 41.2/30

Out: 0.005 ± 0.011 χ^2/NDF : 38.0/35

All: 0.012 ± 0.008 χ^2/NDF : 80.1/66

asym_sam6_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 39.335 $\pm$ 0.011 χ^2 /NDF: 1566525.1/15

Left Out: 52.017 $\pm$ 0.010 χ^2 /NDF: 1013736.5/16

Right Out: 36.700 $\pm$ 0.011 χ^2 /NDF: 2096756.0/18

Left In: 53.218 $\pm$ 0.011 χ^2 /NDF: 1106499.2/14

Left: 52.579 $\pm$ 0.008 χ^2 /NDF: 2126454.5/31

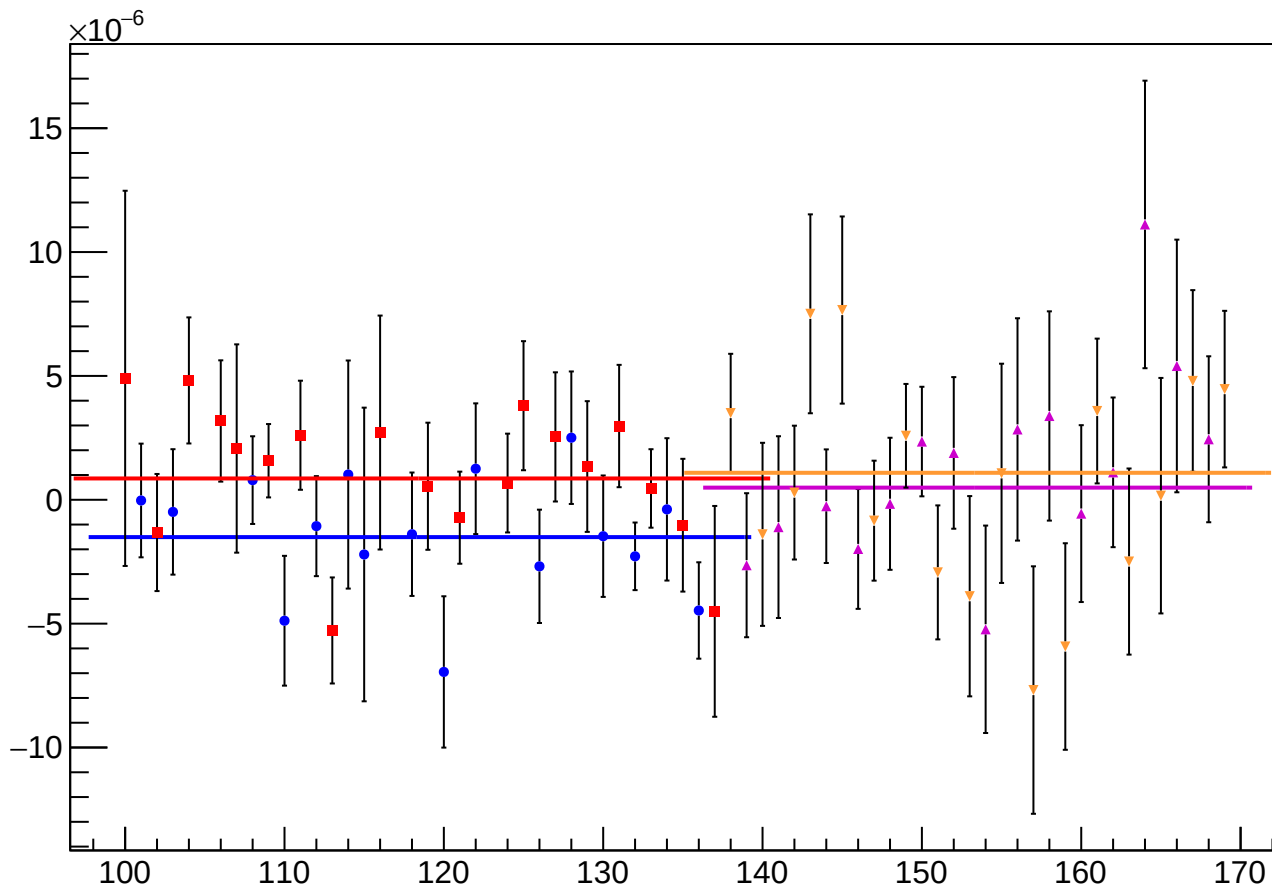
Right: 37.940 $\pm$ 0.008 χ^2 /NDF: 3691907.9/34

In: 46.415 $\pm$ 0.008 χ^2 /NDF: 3438918.2/30

Out: 44.554 $\pm$ 0.007 χ^2 /NDF: 4164255.5/35

All: 45.428 $\pm$ 0.005 χ^2 /NDF: 7632403.9/66

asym_sam6_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 13.9/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 21.8/16$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 19.1/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 10.8/14$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 32.9/31$

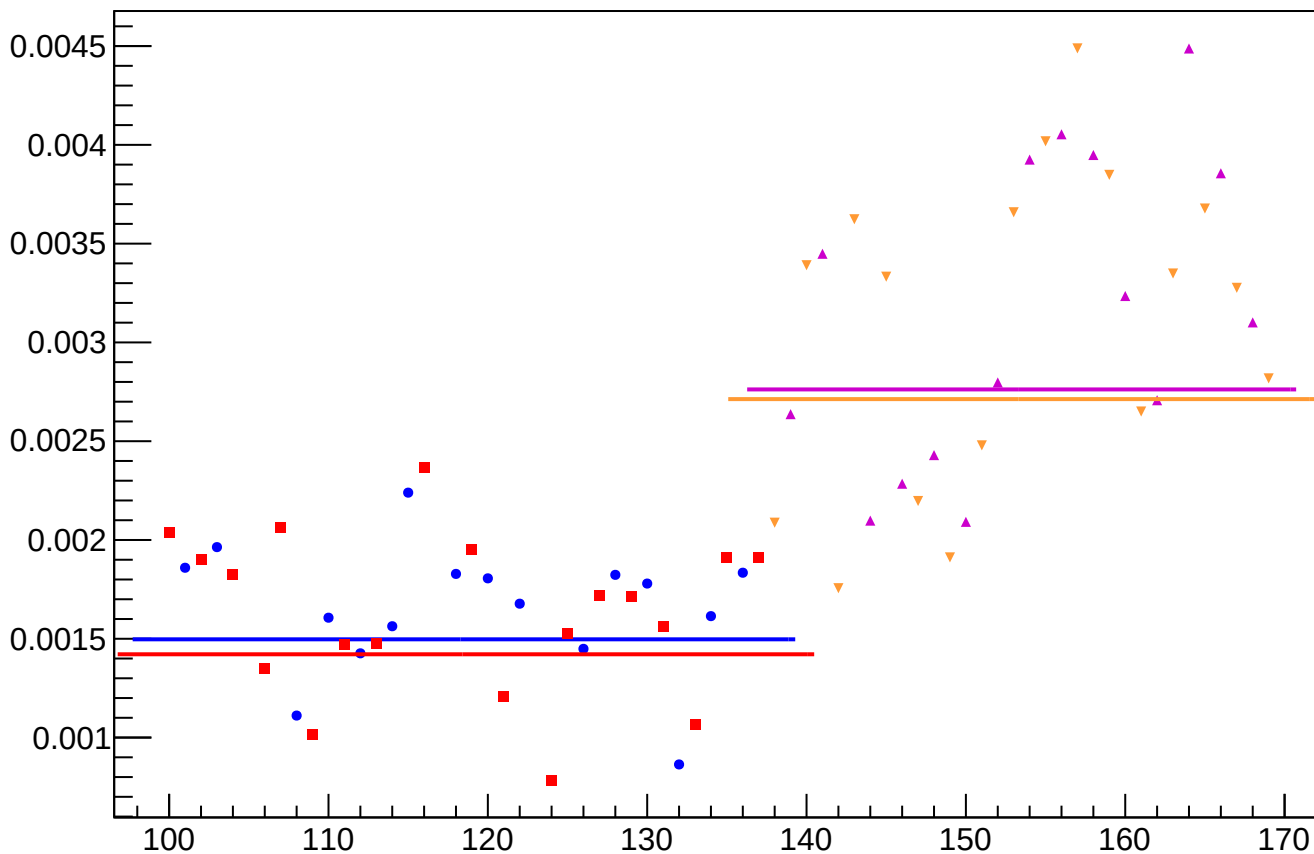
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 41.9/34$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 28.7/30$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 40.9/35$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 77.1/66$

asym_sam6_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 867330.7/15

Left Out: 0.003+/-0.000 χ^2/NDF :1884831.0/16

Right Out: 0.001+/-0.000 χ^2/NDF : 998047.4/18

Left In: 0.003+/-0.000 χ^2/NDF :1337515.2/14

Left: 0.003+/-0.000 χ^2/NDF : 3226160.7/31

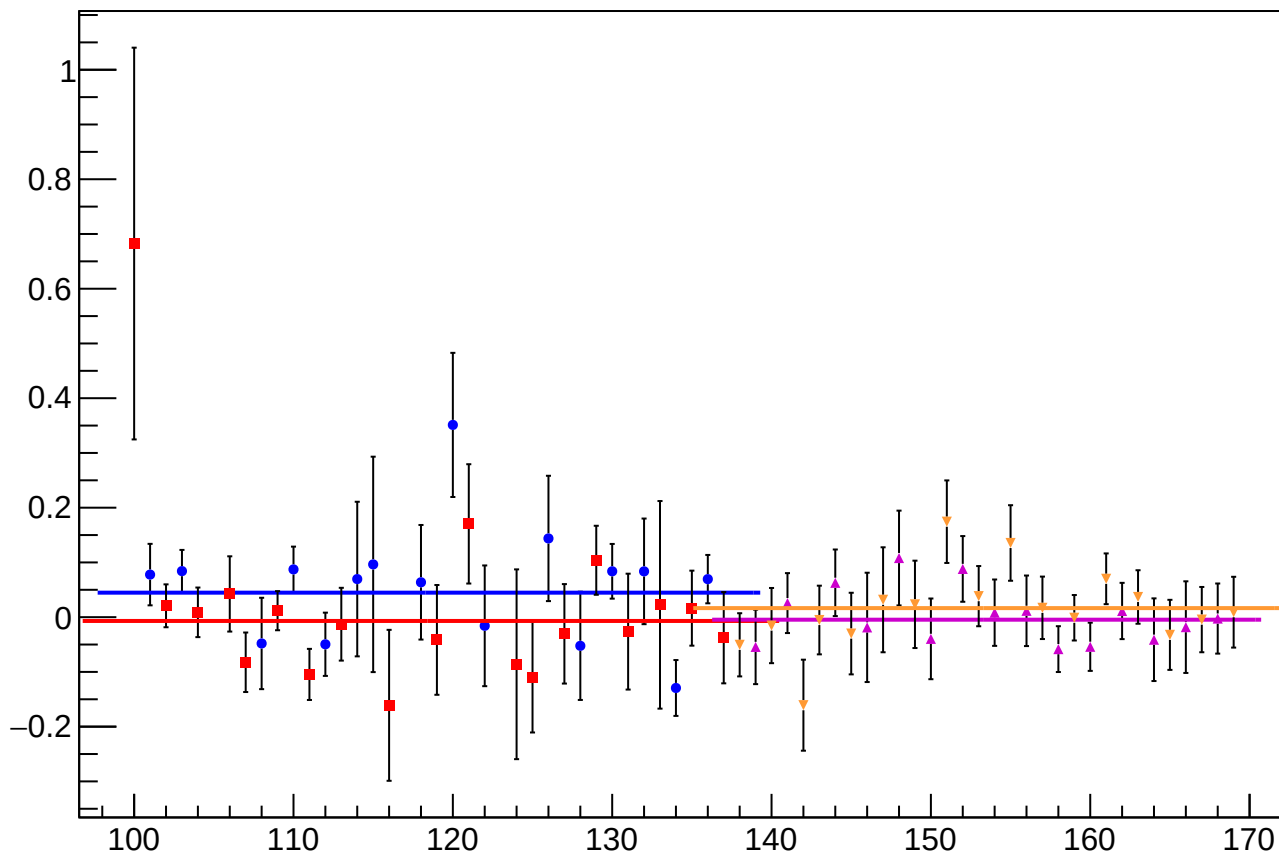
Right: 0.001+/-0.000 χ^2/NDF : 1883510.3/34

In: 0.002+/-0.000 χ^2/NDF :5411264.7/30

Out: 0.002+/-0.000 χ^2/NDF :6613943.0/35

All: 0.002+/-0.000 χ^2/NDF : 12053389.9/66

asym_sam6_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.045 ± 0.016 χ^2/NDF : 26.6/15

Left Out: 0.017 ± 0.015 χ^2/NDF : 16.6/16

Right Out: -0.007 ± 0.015 χ^2/NDF : 20.2/18

Left In: -0.005 ± 0.016 χ^2/NDF : 9.8/14

Left: 0.007 ± 0.011 χ^2/NDF : 27.3/31

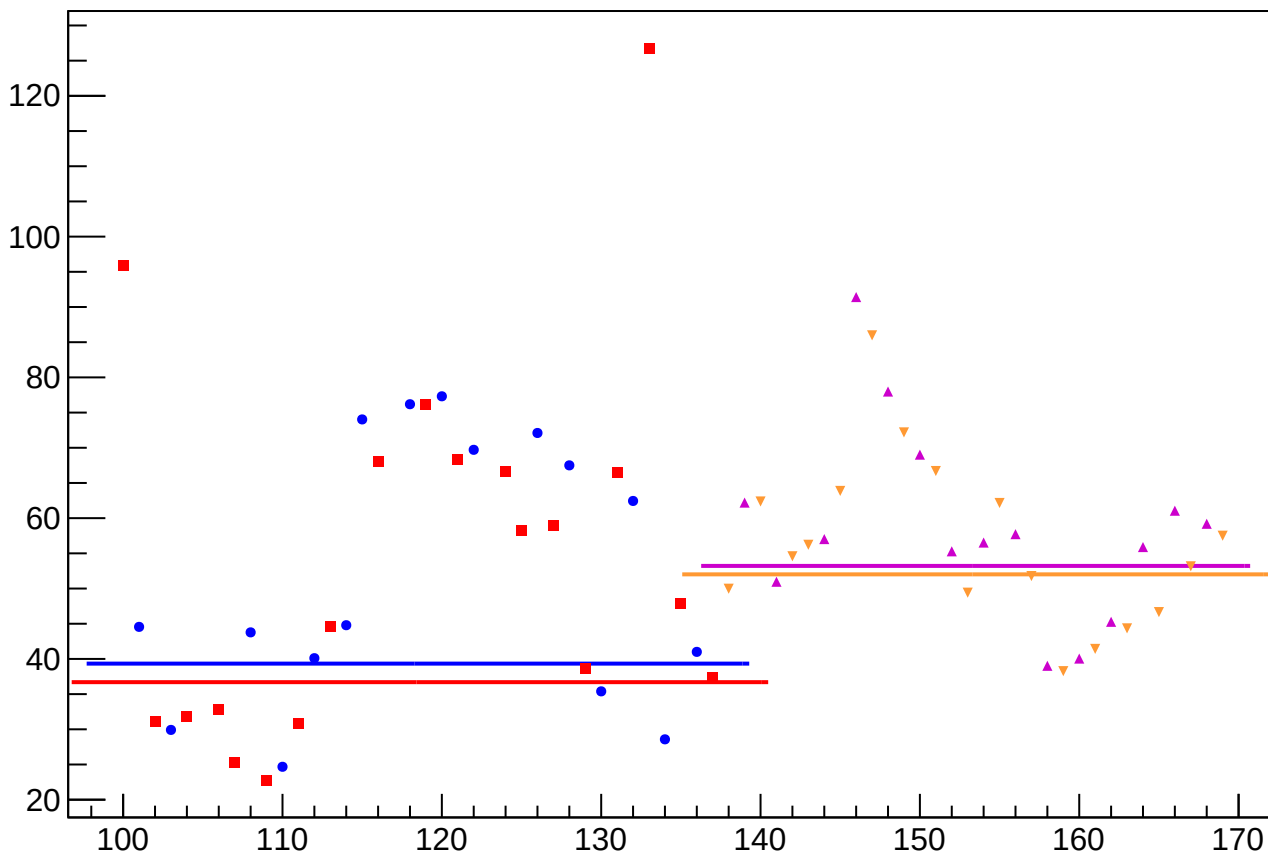
Right: 0.017 ± 0.011 χ^2/NDF : 52.3/34

In: 0.020 ± 0.011 χ^2/NDF : 41.2/30

Out: 0.005 ± 0.011 χ^2/NDF : 38.0/35

All: 0.012 ± 0.008 χ^2/NDF : 80.1/66

asym_sam6_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 39.334 $\pm$ 0.011 χ^2 /NDF: 1566545.4/15

Left Out: 52.016 $\pm$ 0.010 χ^2 /NDF: 1013811.2/16

Right Out: 36.699 $\pm$ 0.011 χ^2 /NDF: 2096748.4/18

Left In: 53.216 $\pm$ 0.011 χ^2 /NDF: 1106620.7/14

Left: 52.578 $\pm$ 0.008 χ^2 /NDF: 2126649.0/31

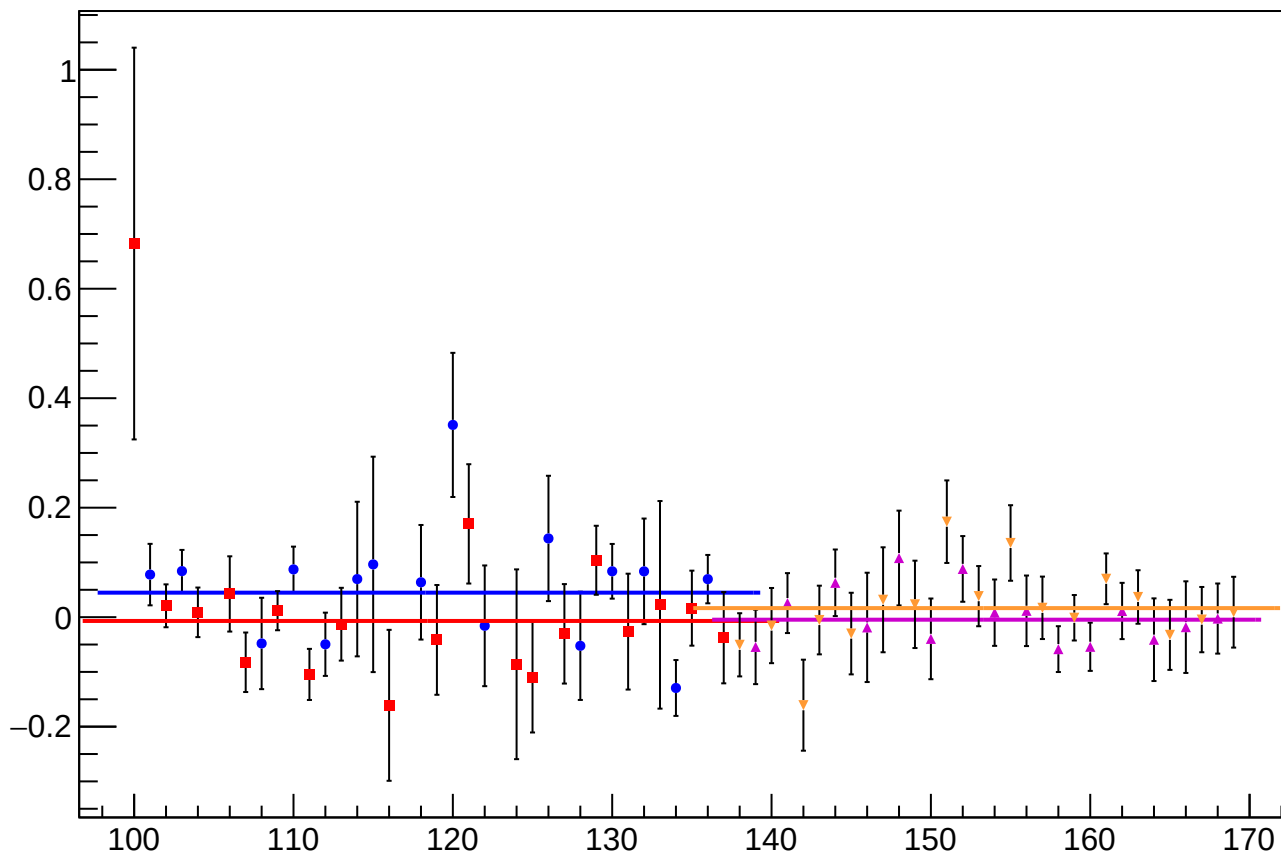
Right: 37.940 $\pm$ 0.008 χ^2 /NDF: 3691915.1/34

In: 46.414 $\pm$ 0.008 χ^2 /NDF: 3439002.9/30

Out: 44.553 $\pm$ 0.007 χ^2 /NDF: 4164235.9/35

All: 45.427 $\pm$ 0.005 χ^2 /NDF: 7632461.7/66

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.045 ± 0.016 χ^2/NDF : 26.6/15

Left Out: 0.017 ± 0.015 χ^2/NDF : 16.6/16

Right Out: -0.007 ± 0.015 χ^2/NDF : 20.2/18

Left In: -0.005 ± 0.016 χ^2/NDF : 9.8/14

Left: 0.007 ± 0.011 χ^2/NDF : 27.3/31

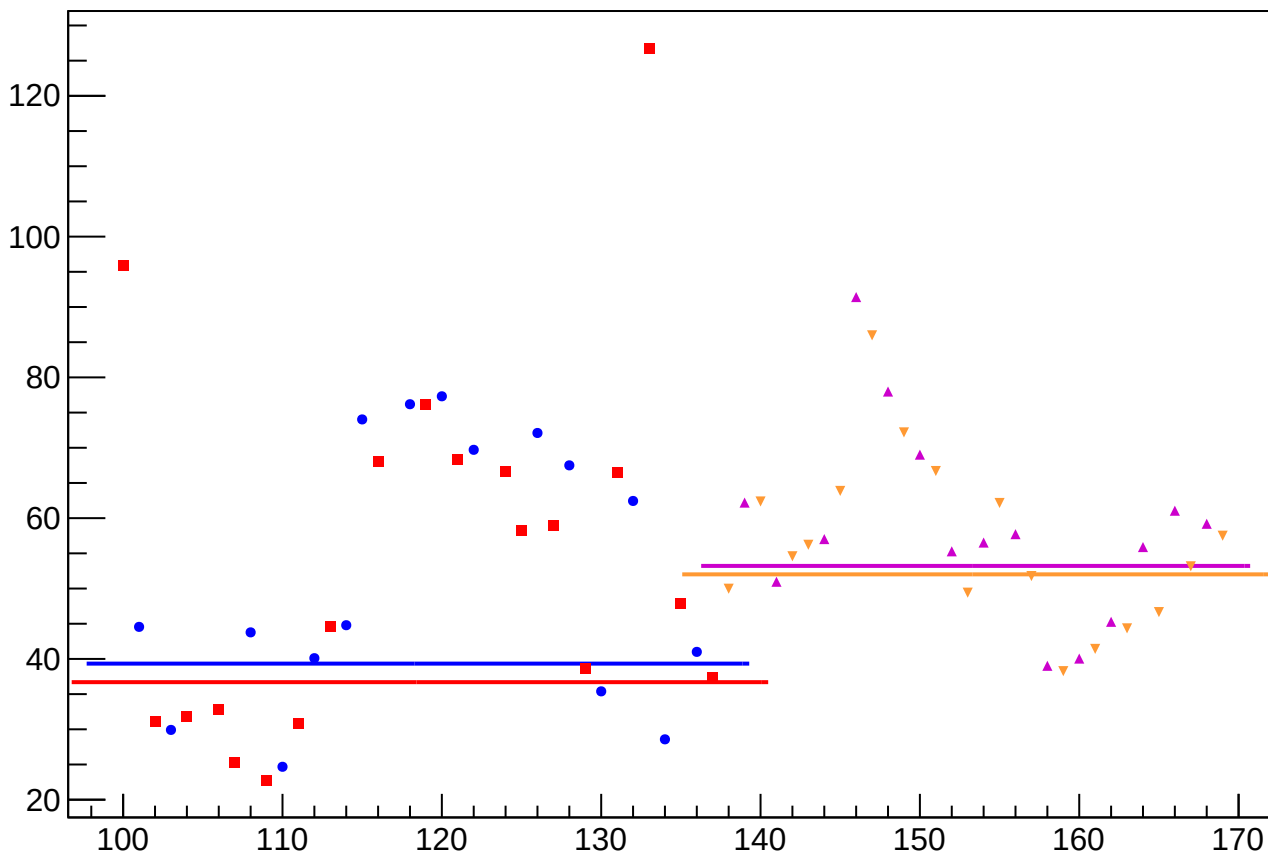
Right: 0.017 ± 0.011 χ^2/NDF : 52.3/34

In: 0.020 ± 0.011 χ^2/NDF : 41.2/30

Out: 0.005 ± 0.011 χ^2/NDF : 38.0/35

All: 0.012 ± 0.008 χ^2/NDF : 80.1/66

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 39.334 $\pm$ 0.011 χ^2 /NDF: 1566545.4/15

Left Out: 52.016 $\pm$ 0.010 χ^2 /NDF: 1013811.2/16

Right Out: 36.699 $\pm$ 0.011 χ^2 /NDF: 2096748.4/18

Left In: 53.216 $\pm$ 0.011 χ^2 /NDF: 1106620.7/14

Left: 52.578 $\pm$ 0.008 χ^2 /NDF: 2126649.0/31

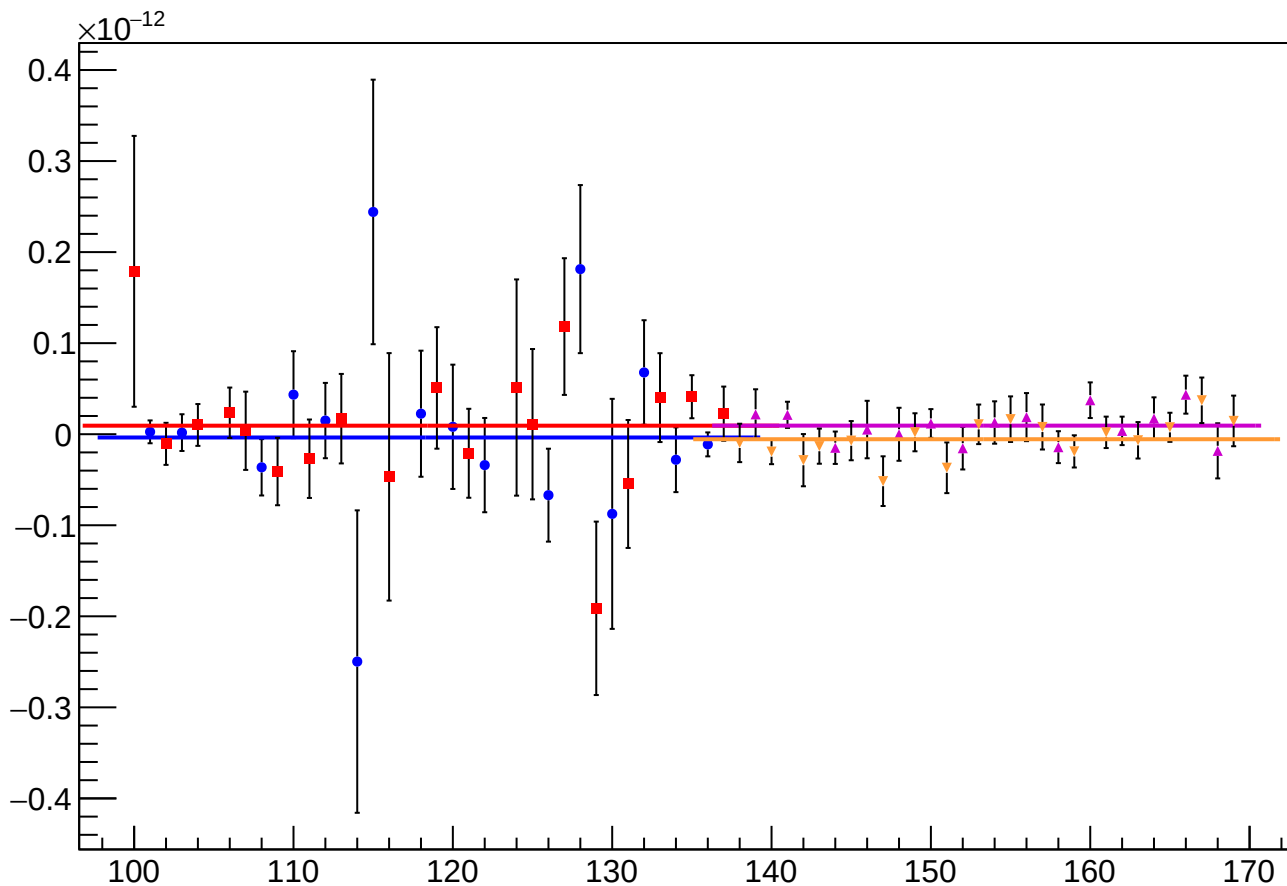
Right: 37.940 $\pm$ 0.008 χ^2 /NDF: 3691915.1/34

In: 46.414 $\pm$ 0.008 χ^2 /NDF: 3439002.9/30

Out: 44.553 $\pm$ 0.007 χ^2 /NDF: 4164235.9/35

All: 45.427 $\pm$ 0.005 χ^2 /NDF: 7632461.7/66

asym_sam6_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.6/15

Left Out: -0.000+/-0.000 χ^2/NDF :12.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 15.7/18

Left In: 0.000+/-0.000 χ^2/NDF :11.8/14

Left: 0.000+/-0.000 χ^2/NDF : 28.6/31

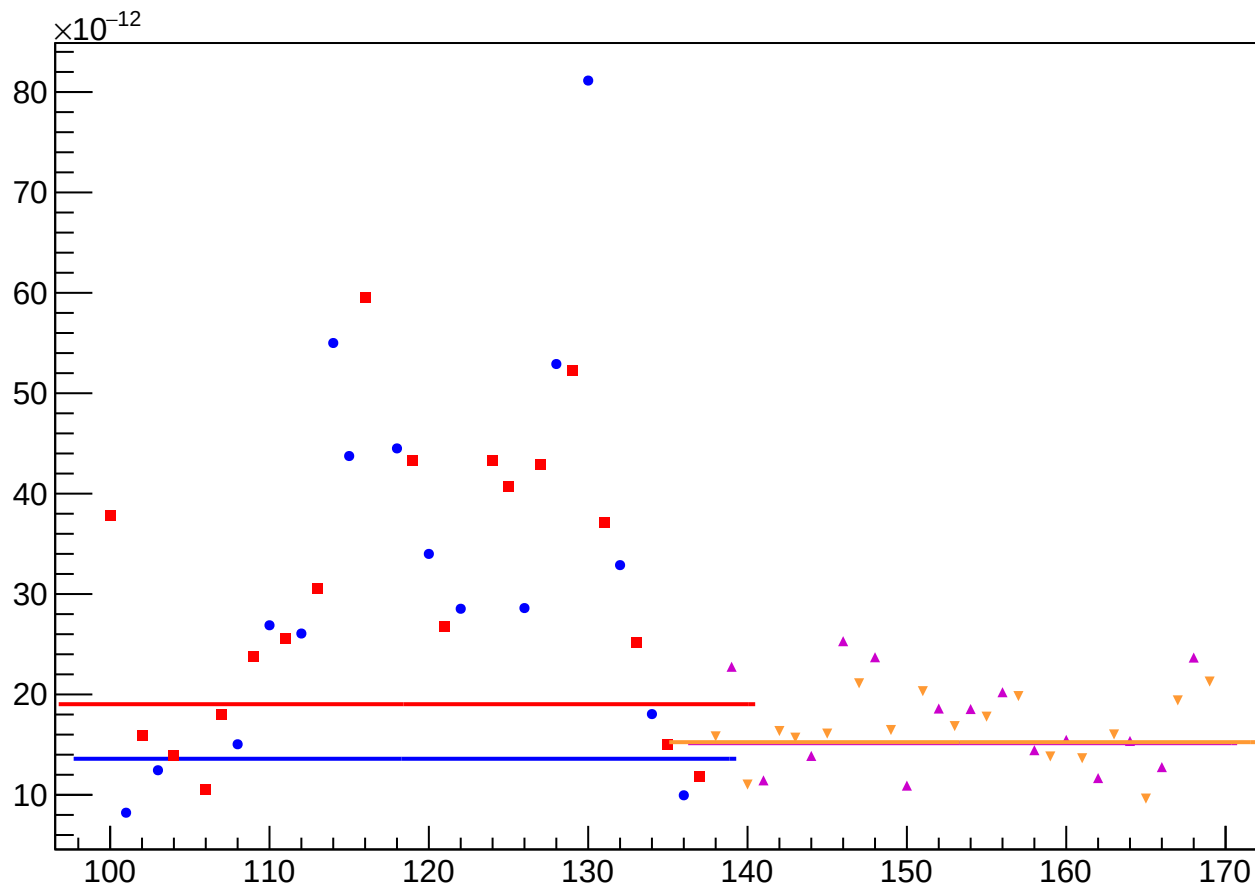
Right: 0.000+/-0.000 χ^2/NDF : 33.6/34

In: 0.000+/-0.000 χ^2/NDF :30.5/30

Out: -0.000+/-0.000 χ^2/NDF :30.4/35

All: 0.000+/-0.000 χ^2/NDF : 62.1/66

asym_sam6_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3187097.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 892748.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2049385.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 1267683.3/14

Left: 0.000+/-0.000 χ^2/NDF : 2160827.8/31

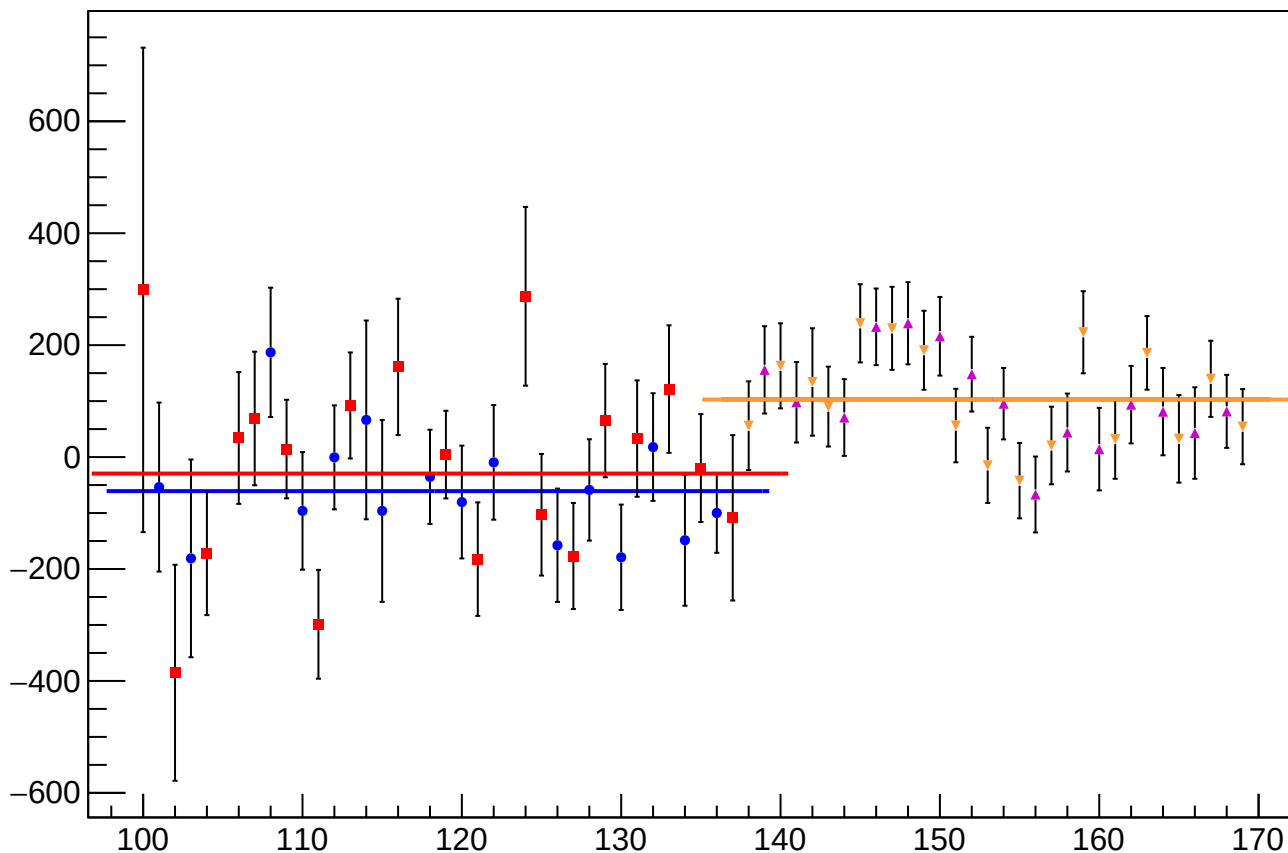
Right: 0.000+/-0.000 χ^2/NDF : 5674807.3/34

In: 0.000+/-0.000 χ^2/NDF : 4514920.7/30

Out: 0.000+/-0.000 χ^2/NDF : 3207286.8/35

All: 0.000+/-0.000 χ^2/NDF : 7846497.8/66

reg_asym_sam7_mean vs Slug, Sign Corrected



Right In: -60.846 $\pm$ 26.054 χ^2 /NDF: 10.6/15

Left Out: 102.814 $\pm$ 17.343 χ^2 /NDF:25.9/16

Right Out: -29.453 $\pm$ 25.105 χ^2 /NDF: 31.2/18

Left In: 102.979 $\pm$ 18.232 χ^2 /NDF:20.0/14

Left: 102.892 $\pm$ 12.566 χ^2 /NDF: 45.9/31

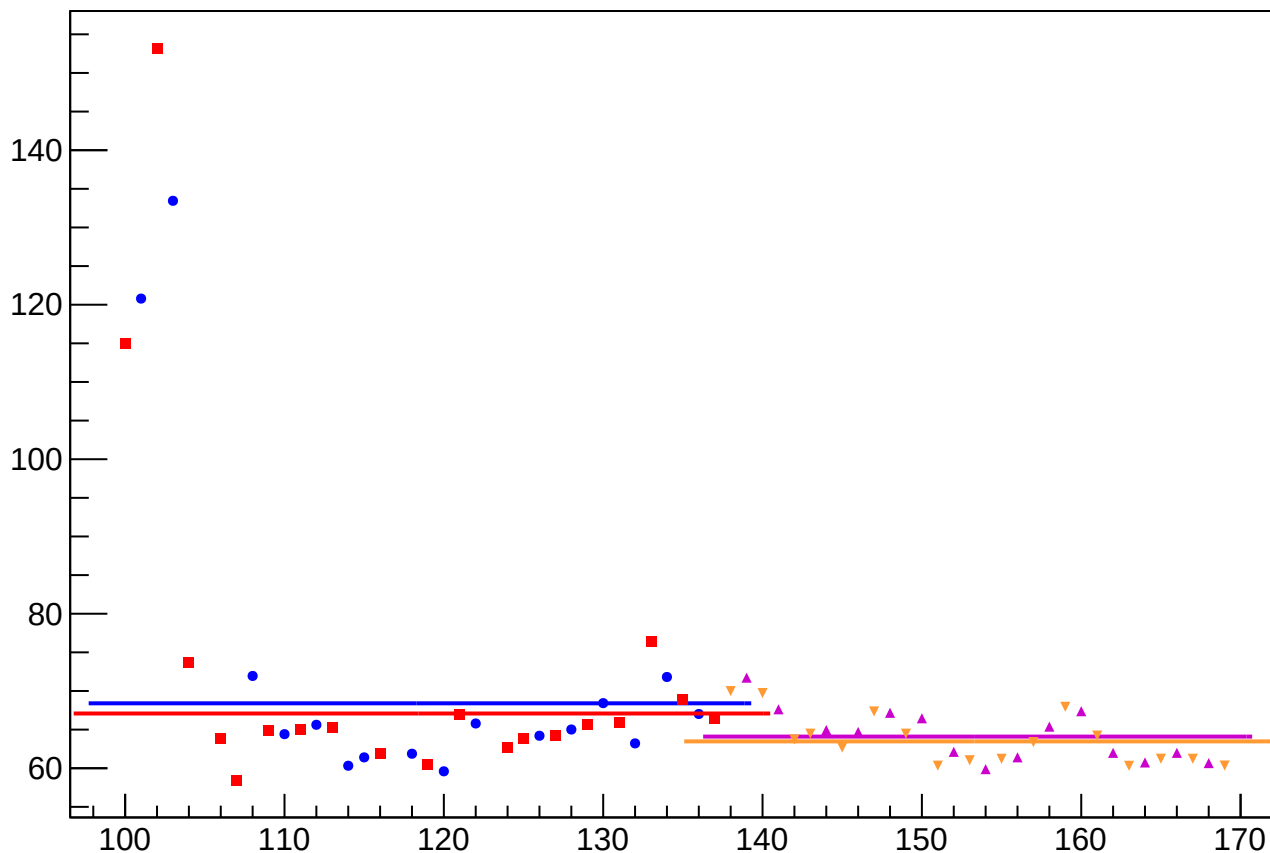
Right: -44.568 $\pm$ 18.078 χ^2 /NDF: 42.5/34

In: 49.126 $\pm$ 14.938 χ^2 /NDF:57.1/30

Out: 60.084 $\pm$ 14.269 χ^2 /NDF:75.9/35

All: 54.856 $\pm$ 10.318 χ^2 /NDF: 133.3/66

reg_asym_sam7_rms vs Slug, Sign Corrected



Right In: 68.403+/-0.018 χ^2/NDF : 569557.5/15

Left Out: 63.475+/-0.012 χ^2/NDF : 63459.3/16

Right Out: 67.086+/-0.018 χ^2/NDF : 481815.1/18

Left In: 64.096+/-0.013 χ^2/NDF : 60882.8/14

Left: 63.770+/-0.009 χ^2/NDF : 125560.5/31

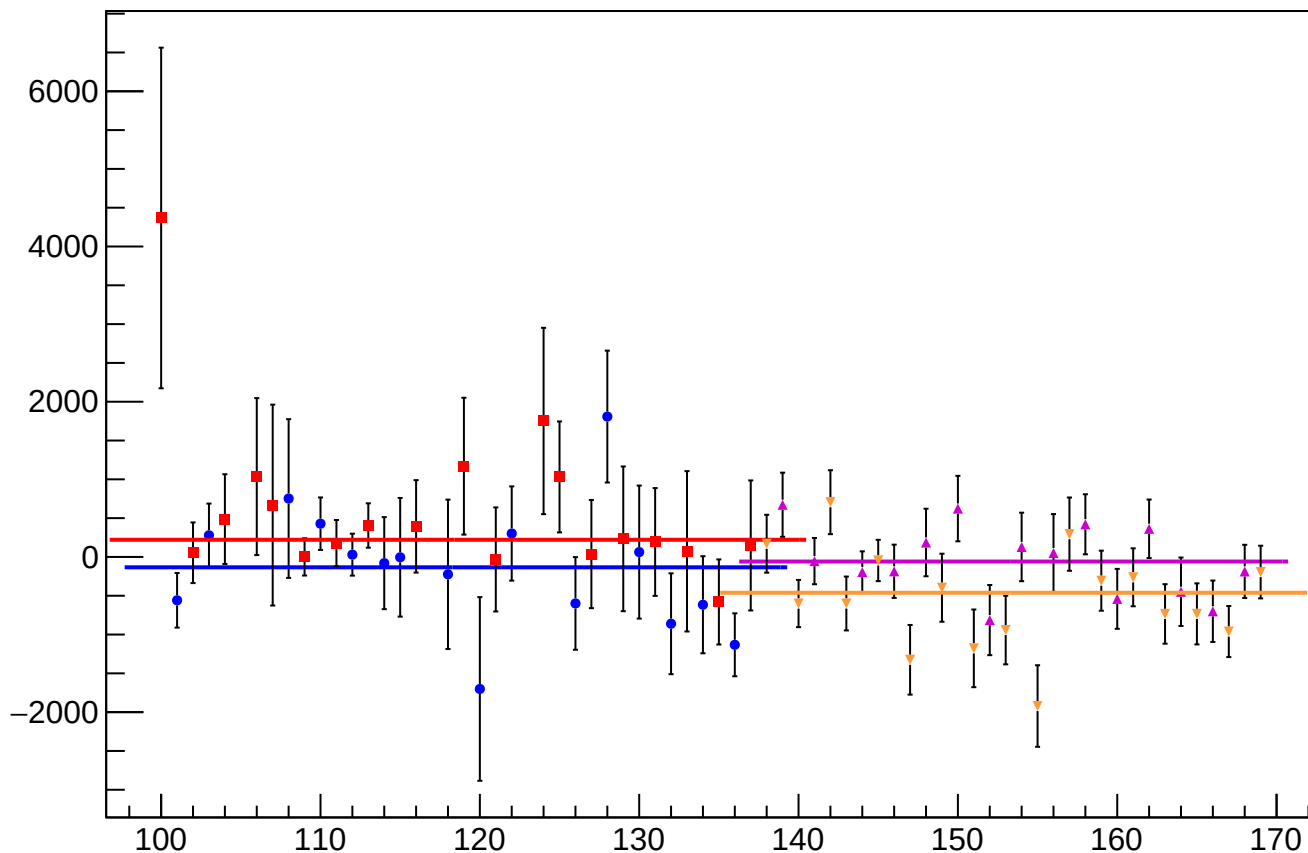
Right: 67.720+/-0.013 χ^2/NDF : 1054024.8/34

In: 65.512+/-0.011 χ^2/NDF : 667131.5/30

Out: 64.642+/-0.010 χ^2/NDF : 573277.8/35

All: 65.057+/-0.007 χ^2/NDF : 1243960.4/66

asym_sam7_reg_correction_mean vs Slug, Sign Corrected



Right In: -133.590+/-125.904 χ^2/NDF : 22.5/15

Left Out: -461.407+/-91.766 χ^2/NDF : 35.3/16

Right Out: 221.324+/-117.783 χ^2/NDF : 12.5/18

Left In: -59.211+/-97.579 χ^2/NDF : 17.4/14

Left: -272.645+/-66.849 χ^2/NDF : 61.7/31

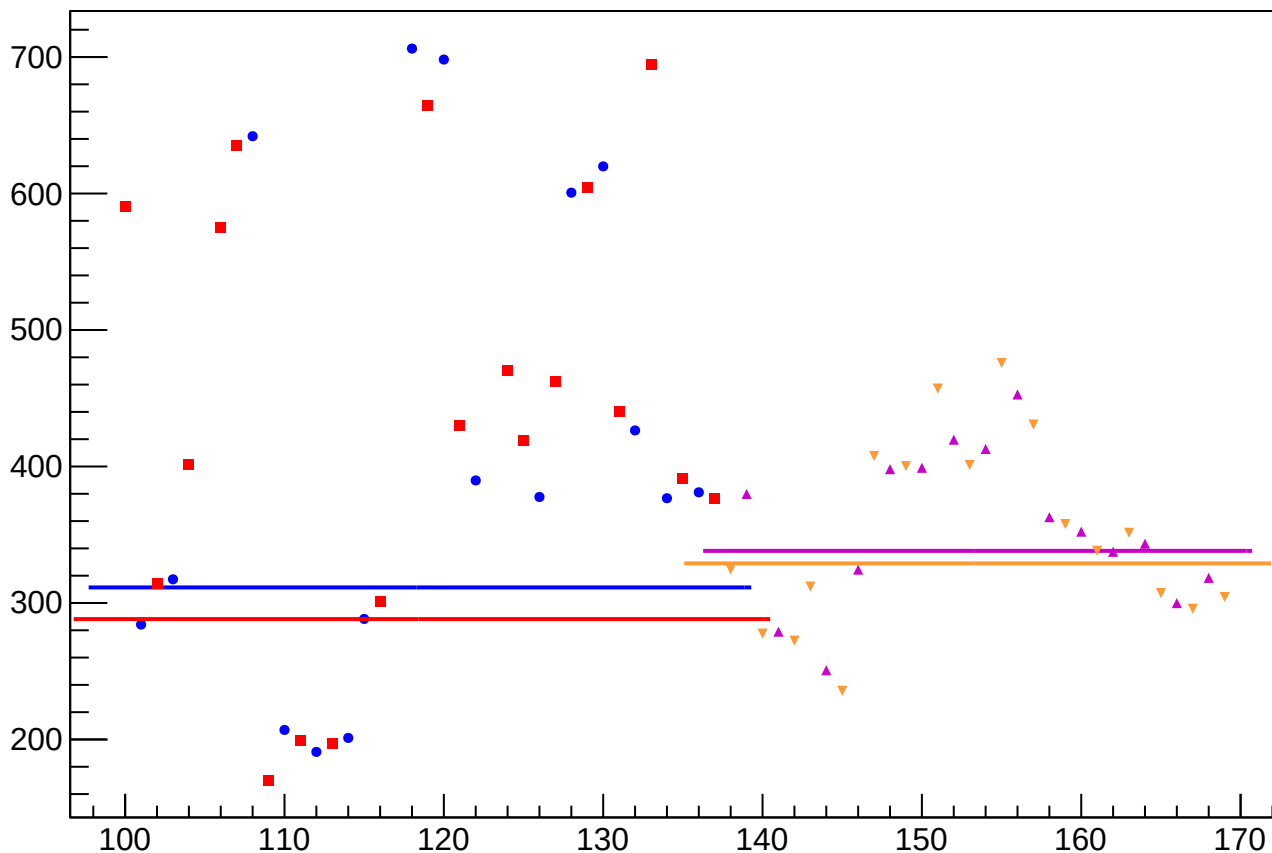
Right: 55.682+/-86.013 χ^2/NDF : 39.2/34

In: -87.123+/-77.127 χ^2/NDF : 40.1/30

Out: -203.519+/-72.389 χ^2/NDF : 68.7/35

All: -149.005+/-52.782 χ^2/NDF : 110.0/66

asym_sam7_reg_correction_rms vs Slug, Sign Corrected



Right In: 311.386 $\pm$ 0.089 χ^2 /NDF: 2123797.6/15

Left Out: 329.013 $\pm$ 0.065 χ^2 /NDF: 949956.4/16

Right Out: 288.205 $\pm$ 0.083 χ^2 /NDF: 2715380.6/18

Left In: 338.177 $\pm$ 0.069 χ^2 /NDF: 660456.7/14

Left: 333.314 $\pm$ 0.047 χ^2 /NDF: 1619775.3/31

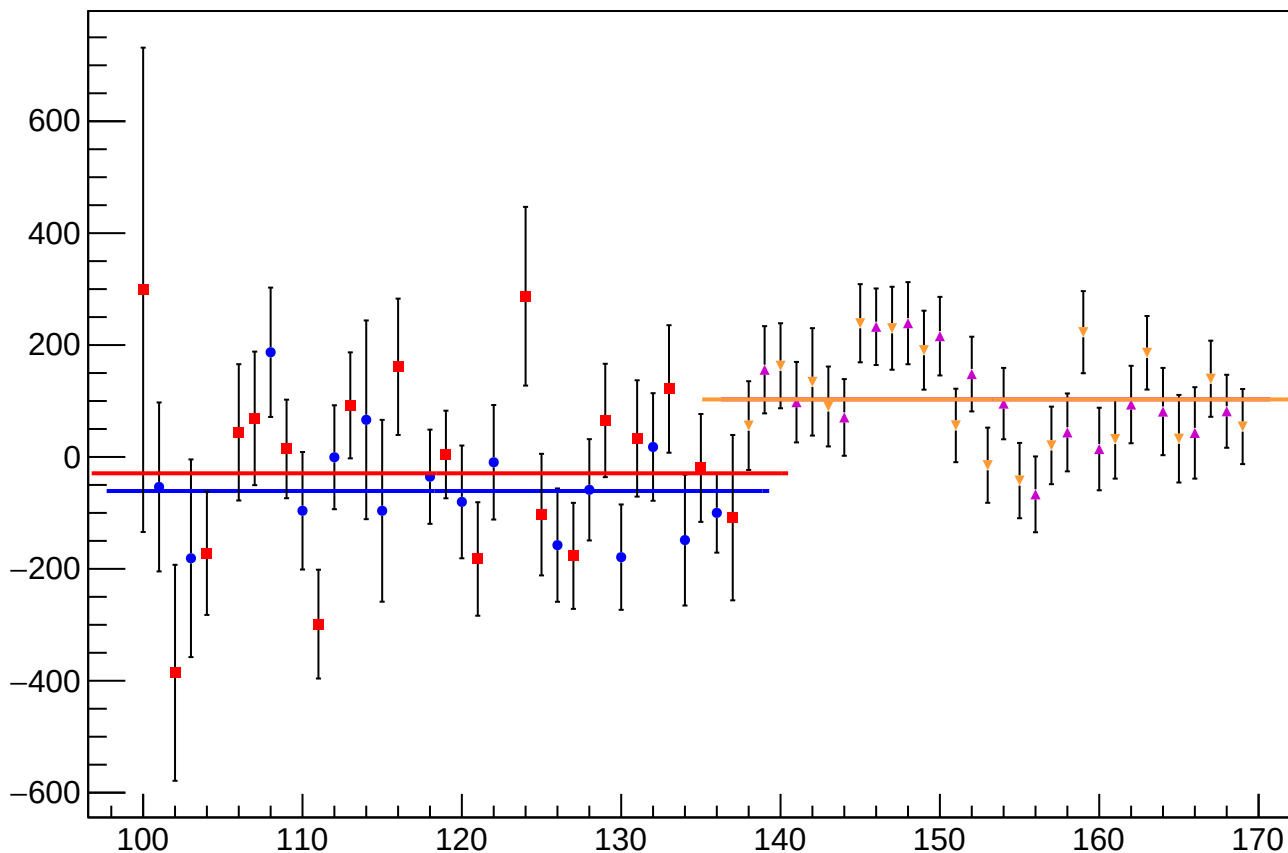
Right: 299.024 $\pm$ 0.061 χ^2 /NDF: 4875335.3/34

In: 328.124 $\pm$ 0.055 χ^2 /NDF: 2840830.9/30

Out: 313.598 $\pm$ 0.051 χ^2 /NDF: 3814731.8/35

All: 320.401 $\pm$ 0.037 χ^2 /NDF: 6693276.5/66

cor_asym_sam7_mean vs Slug, Sign Corrected



Right In: -60.848 $\pm$ 26.054 χ^2 /NDF: 10.6/15

Left Out: 102.815 $\pm$ 17.343 χ^2 /NDF:25.9/16

Right Out: -29.221 $\pm$ 25.143 χ^2 /NDF: 31.3/18

Left In: 102.978 $\pm$ 18.232 χ^2 /NDF:20.0/14

Left: 102.892 $\pm$ 12.566 χ^2 /NDF: 45.9/31

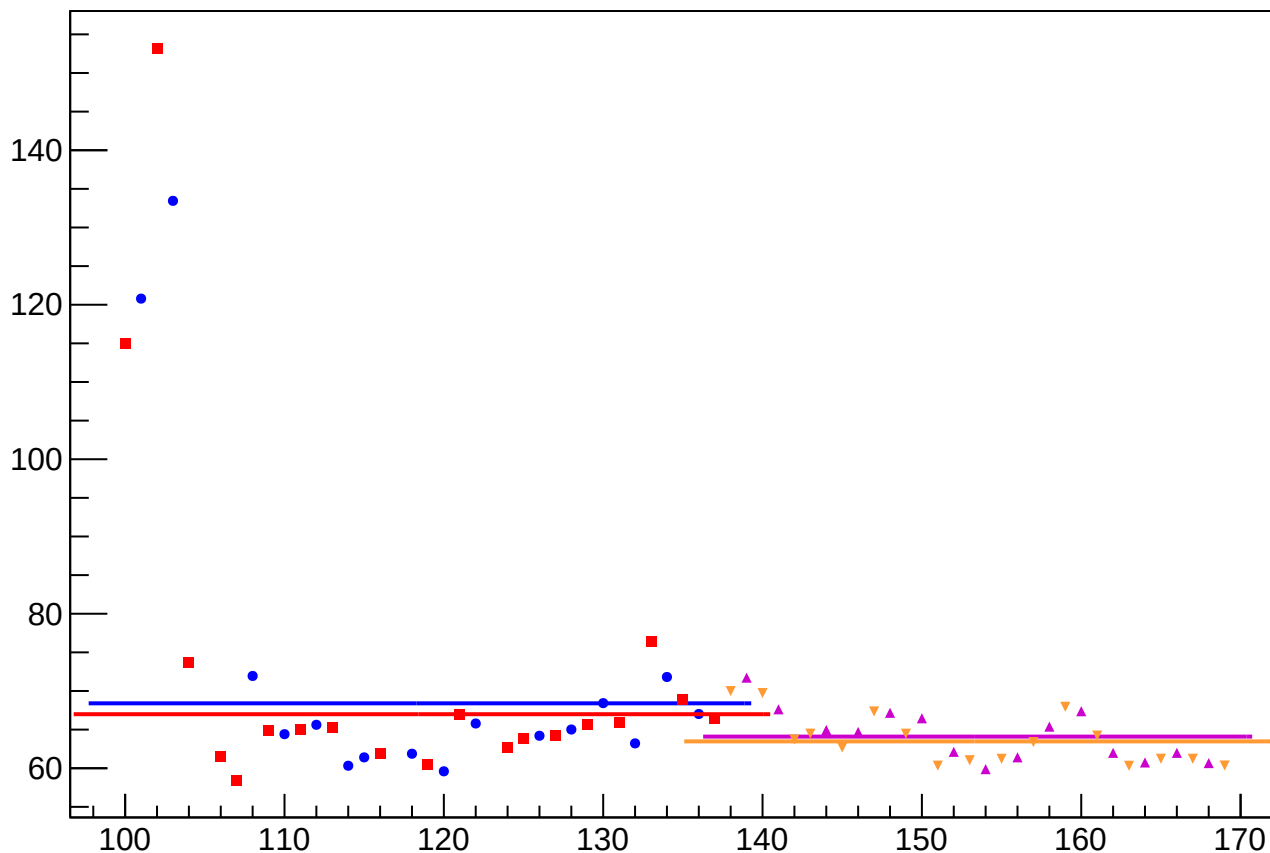
Right: -44.472 $\pm$ 18.092 χ^2 /NDF: 42.6/34

In: 49.125 $\pm$ 14.938 χ^2 /NDF:57.1/30

Out: 60.247 $\pm$ 14.276 χ^2 /NDF:75.9/35

All: 54.937 $\pm$ 10.321 χ^2 /NDF: 133.3/66

cor_asym_sam7_rms vs Slug, Sign Corrected



Right In: 68.403+/-0.018 χ^2/NDF : 569557.9/15

Left Out: 63.475+/-0.012 χ^2/NDF : 63459.3/16

Right Out: 66.995+/-0.018 χ^2/NDF : 484487.7/18

Left In: 64.096+/-0.013 χ^2/NDF : 60882.7/14

Left: 63.770+/-0.009 χ^2/NDF : 125560.5/31

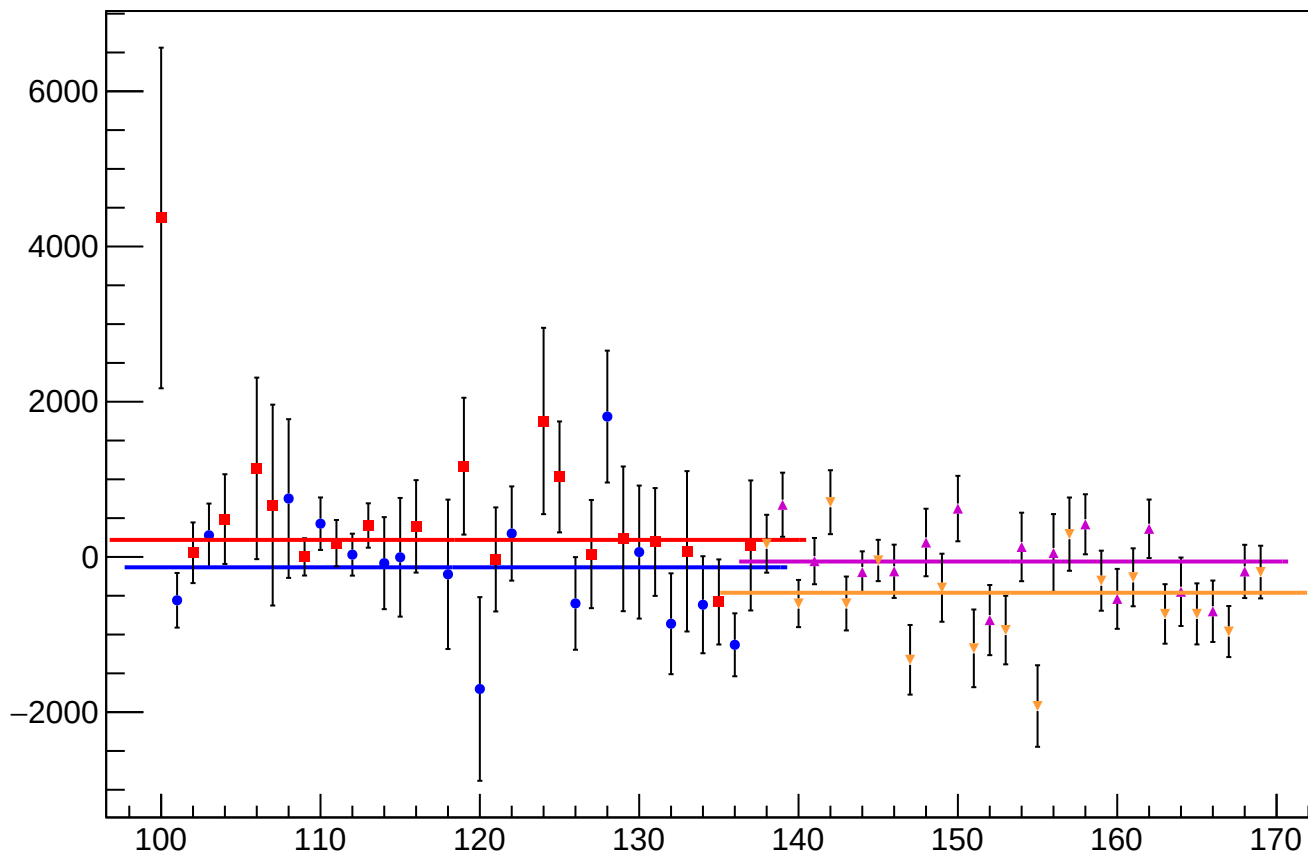
Right: 67.674+/-0.013 χ^2/NDF : 1057072.9/34

In: 65.512+/-0.011 χ^2/NDF : 667131.8/30

Out: 64.610+/-0.010 χ^2/NDF : 574501.0/35

All: 65.041+/-0.007 χ^2/NDF : 1245445.8/66

asym_sam7_cor_correction_mean vs Slug, Sign Corrected



Right In: -133.587+/-125.904 χ^2/NDF : 22.5/15

Left Out: -461.407+/-91.766 χ^2/NDF : 35.3/16

Right Out: 219.615+/-117.989 χ^2/NDF : 12.5/18

Left In: -59.216+/-97.579 χ^2/NDF : 17.4/14

Left: -272.648+/-66.849 χ^2/NDF : 61.7/31

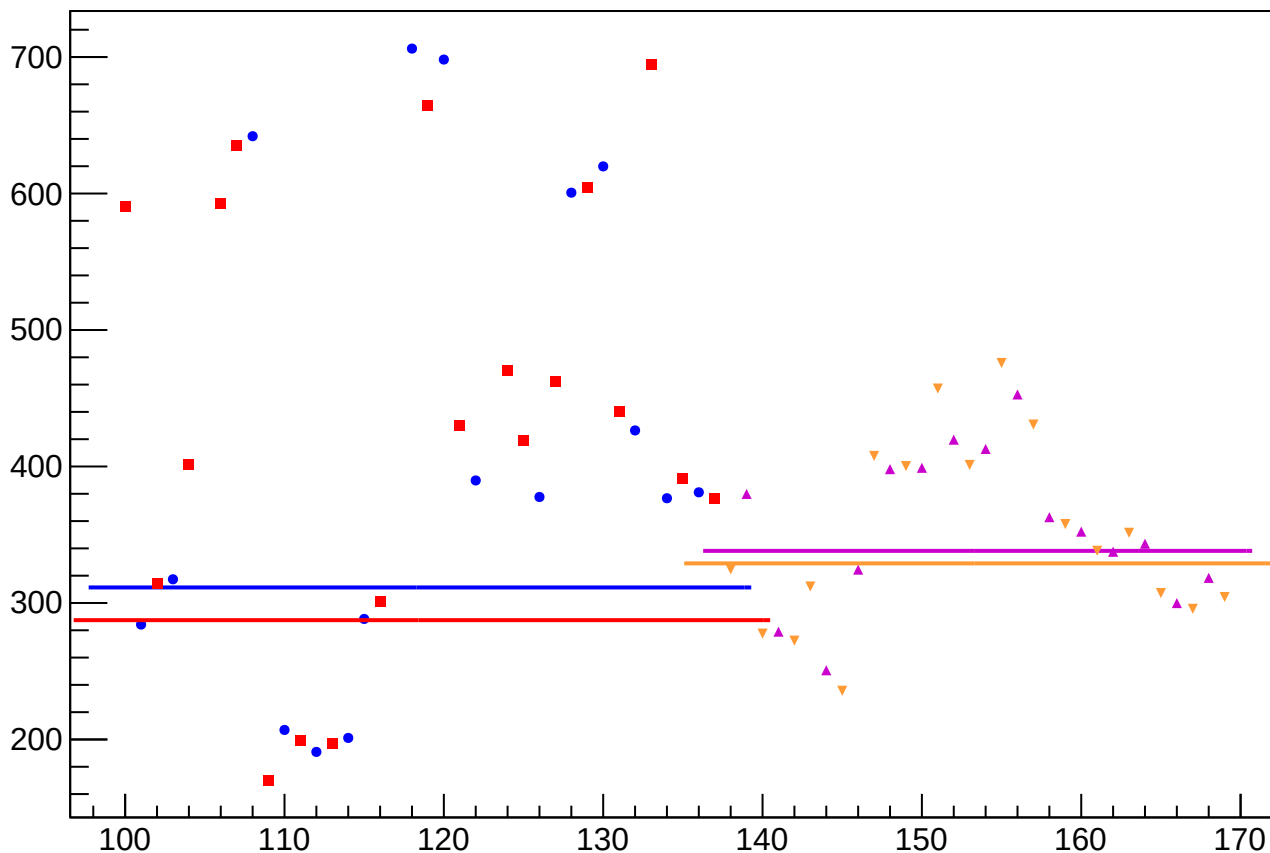
Right: 54.464+/-86.093 χ^2/NDF : 39.2/34

In: -87.125+/-77.127 χ^2/NDF : 40.1/30

Out: -204.726+/-72.437 χ^2/NDF : 68.6/35

All: -149.610+/-52.801 χ^2/NDF : 109.9/66

asym_sam7_cor_correction_rms vs Slug, Sign Corrected



Right In: 311.388 $\pm$ 0.089 χ^2 /NDF: 2123799.0/15

Left Out: 329.013 $\pm$ 0.065 χ^2 /NDF:949960.6/16

Right Out: 287.413 $\pm$ 0.083 χ^2 /NDF: 2690258.0/18

Left In: 338.178 $\pm$ 0.069 χ^2 /NDF:660453.9/14

Left: 333.314 $\pm$ 0.047 χ^2 /NDF: 1619777.5/31

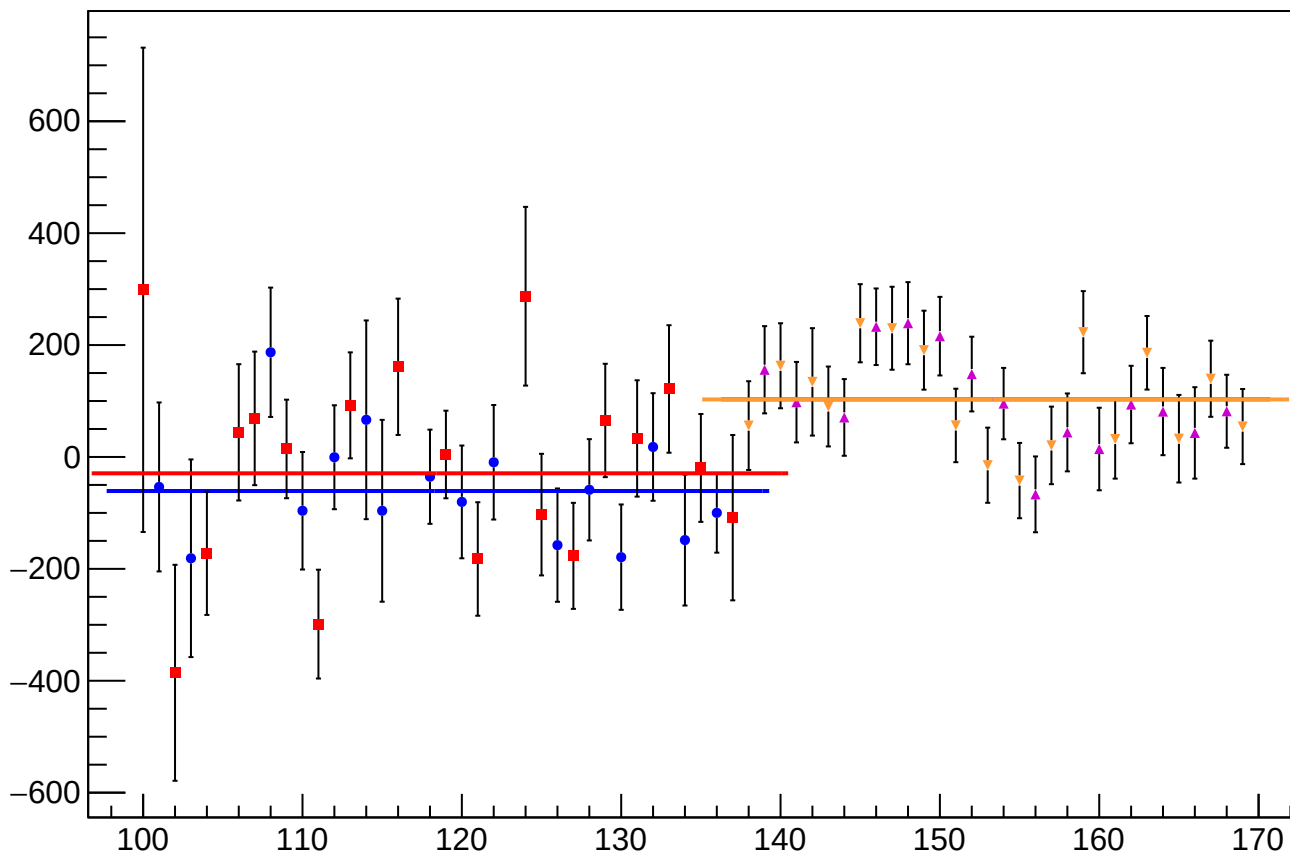
Right: 298.623 $\pm$ 0.061 χ^2 /NDF: 4852668.8/34

In: 328.125 $\pm$ 0.055 χ^2 /NDF:2840822.0/30

Out: 313.333 $\pm$ 0.051 χ^2 /NDF:3795126.5/35

All: 320.266 $\pm$ 0.037 χ^2 /NDF: 6675030.7/66

eigen_cor_asym_sam7_mean vs Slug, Sign Corrected



Right In: -60.848 ± 26.054 χ^2/NDF : 10.6/15

Left Out: 102.815 ± 17.343 χ^2/NDF : 25.9/16

Right Out: -29.221 ± 25.143 χ^2/NDF : 31.3/18

Left In: 102.978 ± 18.232 χ^2/NDF : 20.0/14

Left: 102.892 ± 12.566 χ^2/NDF : 45.9/31

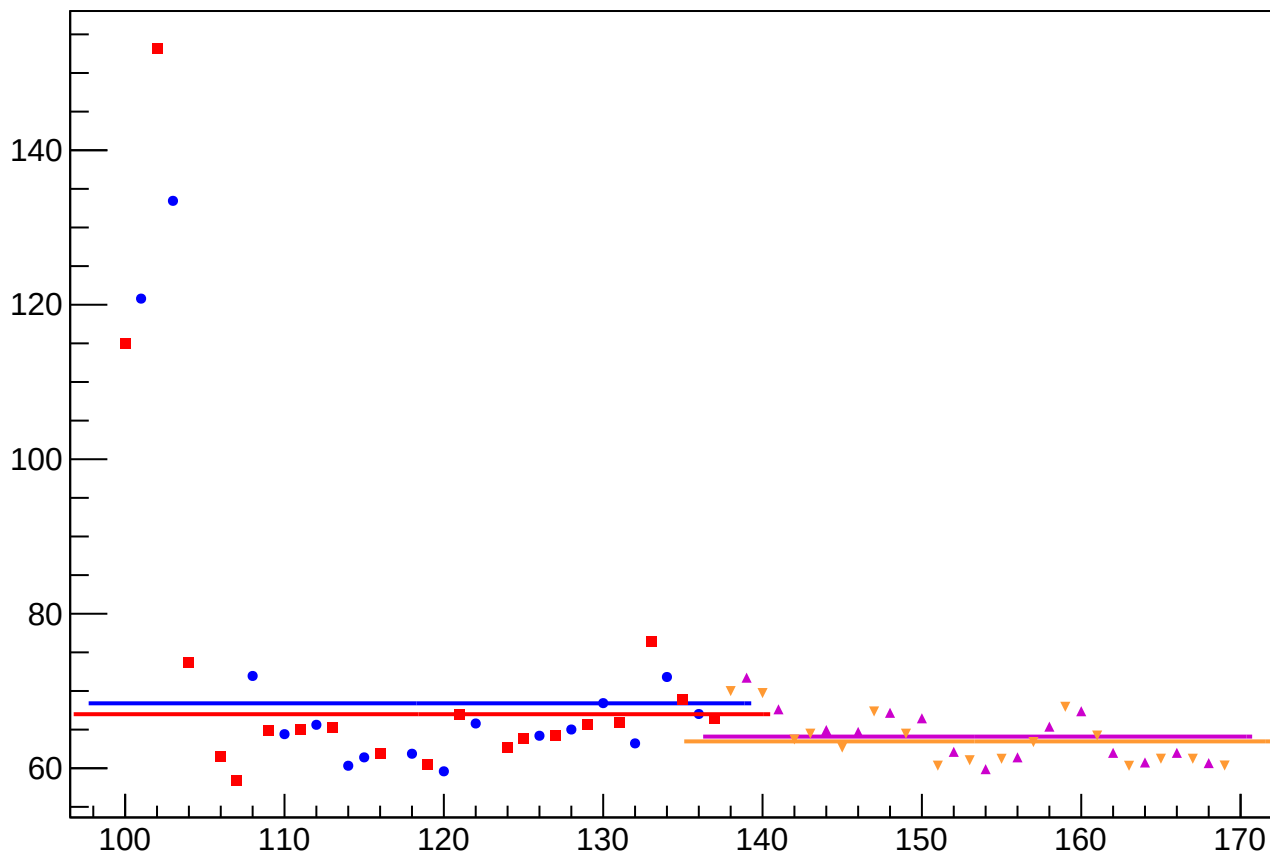
Right: -44.472 ± 18.092 χ^2/NDF : 42.6/34

In: 49.125 ± 14.938 χ^2/NDF : 57.1/30

Out: 60.247 ± 14.276 χ^2/NDF : 75.9/35

All: 54.937 ± 10.321 χ^2/NDF : 133.3/66

eigen_cor_asym_sam7_rms vs Slug, Sign Corrected



Right In: 68.403 $\pm$ 0.018 χ^2 /NDF: 569557.9/15

Left Out: 63.475 $\pm$ 0.012 χ^2 /NDF: 63459.3/16

Right Out: 66.995 $\pm$ 0.018 χ^2 /NDF: 484487.7/18

Left In: 64.096 $\pm$ 0.013 χ^2 /NDF: 60882.7/14

Left: 63.770 $\pm$ 0.009 χ^2 /NDF: 125560.5/31

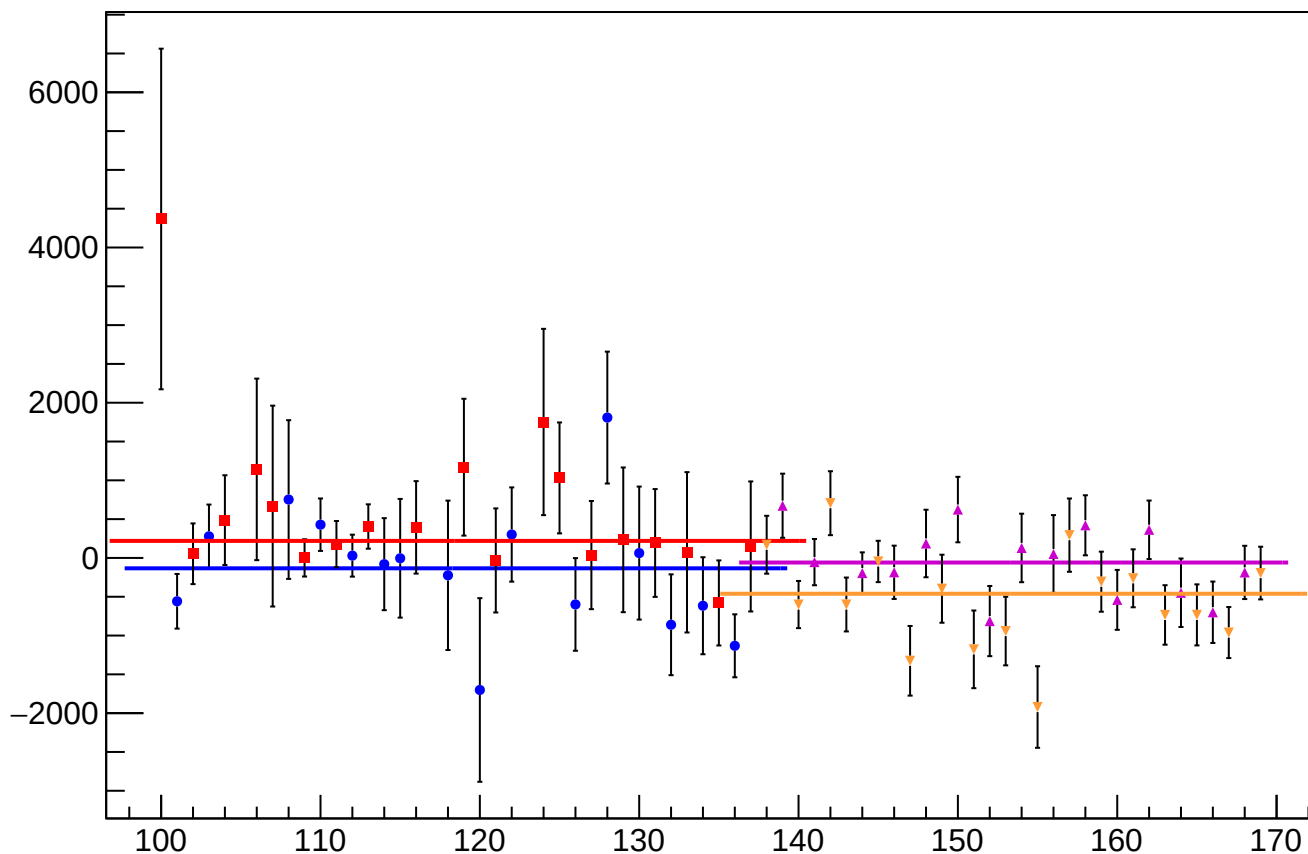
Right: 67.674 $\pm$ 0.013 χ^2 /NDF: 1057072.9/34

In: 65.512 $\pm$ 0.011 χ^2 /NDF: 667131.8/30

Out: 64.610 $\pm$ 0.010 χ^2 /NDF: 574501.0/35

All: 65.041 $\pm$ 0.007 χ^2 /NDF: 1245445.8/66

asym_sam7_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -133.587 $\pm$ 125.904 χ^2 /NDF: 22.5/15

Left Out: -461.407 $\pm$ 91.766 χ^2 /NDF:35.3/16

Right Out: 219.615 $\pm$ 117.989 χ^2 /NDF: 12.5/18

Left In: -59.216 $\pm$ 97.579 χ^2 /NDF:17.4/14

Left: -272.648 $\pm$ 66.849 χ^2 /NDF: 61.7/31

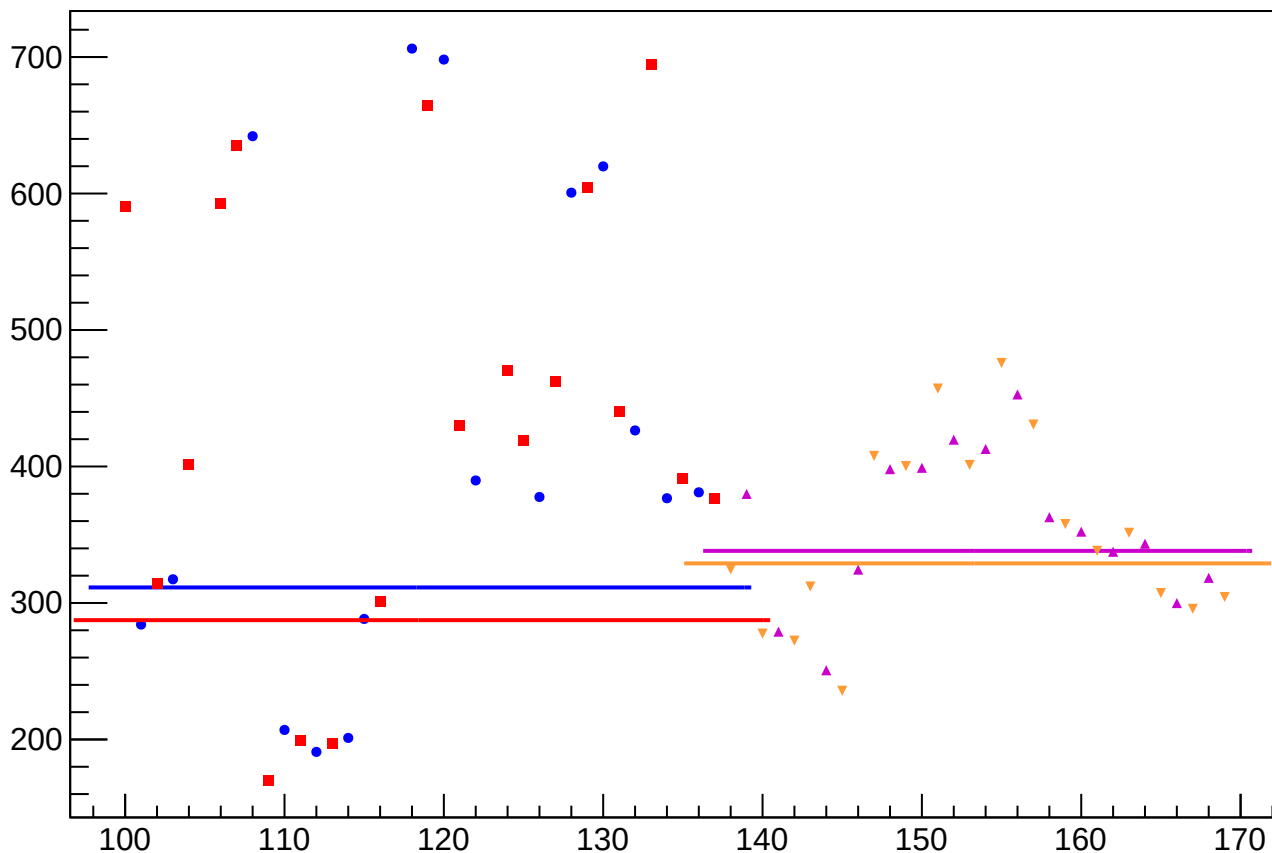
Right: 54.464 $\pm$ 86.093 χ^2 /NDF: 39.2/34

In: -87.125 $\pm$ 77.127 χ^2 /NDF:40.1/30

Out: -204.726 $\pm$ 72.437 χ^2 /NDF:68.6/35

All: -149.610 $\pm$ 52.801 χ^2 /NDF: 109.9/66

asym_sam7_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 311.388 $\pm$ 0.089 χ^2 /NDF: 2123799.0/15

Left Out: 329.013 $\pm$ 0.065 χ^2 /NDF: 949960.6/16

Right Out: 287.413 $\pm$ 0.083 χ^2 /NDF: 2690258.0/18

Left In: 338.178 $\pm$ 0.069 χ^2 /NDF: 660453.9/14

Left: 333.314 $\pm$ 0.047 χ^2 /NDF: 1619777.5/31

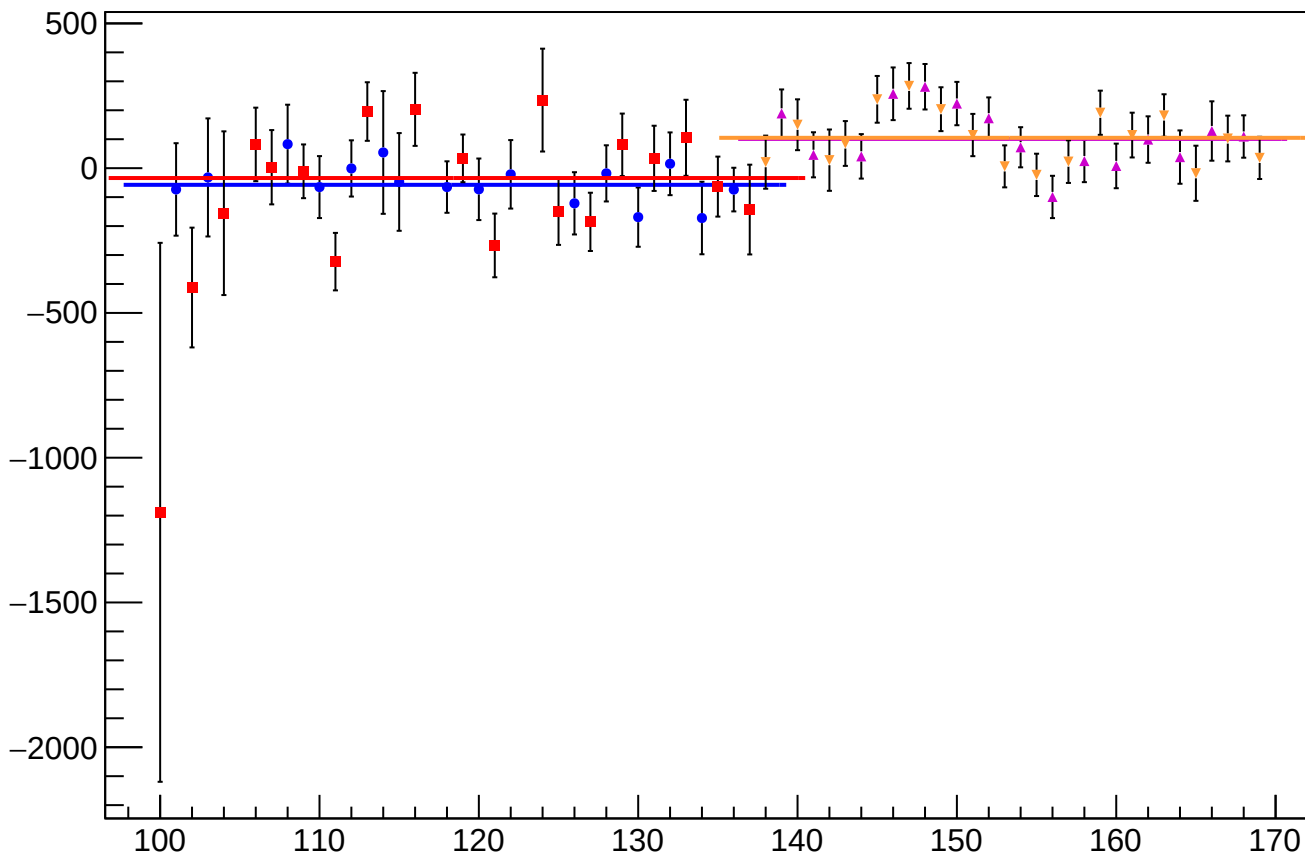
Right: 298.623 $\pm$ 0.061 χ^2 /NDF: 4852668.8/34

In: 328.125 $\pm$ 0.055 χ^2 /NDF: 2840822.0/30

Out: 313.333 $\pm$ 0.051 χ^2 /NDF: 3795126.5/35

All: 320.266 $\pm$ 0.037 χ^2 /NDF: 6675030.7/66

dit_asym_sam7_mean vs Slug, Sign Corrected



Right In: -57.533 $\pm$ 28.087 χ^2/NDF : 4.9/15

Left Out: 104.827 $\pm$ 19.153 χ^2/NDF :22.4/16

Right Out: -34.033 $\pm$ 27.398 χ^2/NDF : 37.1/18

Left In: 101.080 $\pm$ 20.235 χ^2/NDF :24.9/14

Left: 103.056 $\pm$ 13.910 χ^2/NDF : 47.4/31

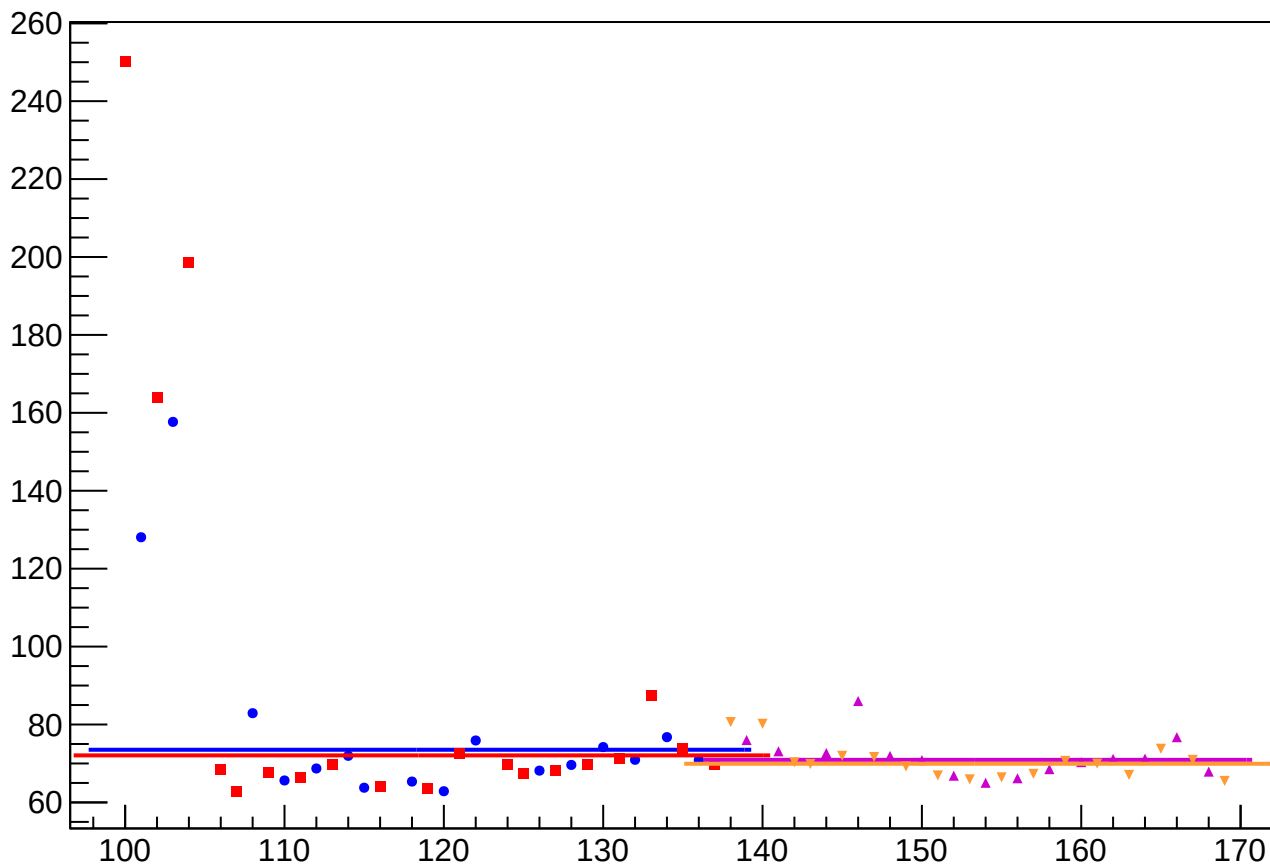
Right: -45.491 $\pm$ 19.612 χ^2/NDF : 42.4/34

In: 46.883 $\pm$ 16.418 χ^2/NDF :50.8/30

Out: 59.242 $\pm$ 15.698 χ^2/NDF :76.8/35

All: 53.340 $\pm$ 11.346 χ^2/NDF : 127.9/66

dit_asym_sam7_rms vs Slug, Sign Corrected



Right In: 73.519 $\pm$ 0.020 χ^2 /NDF: 656847.5/15

Left Out: 69.923 $\pm$ 0.014 χ^2 /NDF: 87627.9/16

Right Out: 72.074 $\pm$ 0.019 χ^2 /NDF: 958495.0/18

Left In: 70.930 $\pm$ 0.014 χ^2 /NDF: 106923.3/14

Left: 70.399 $\pm$ 0.010 χ^2 /NDF: 197162.8/31

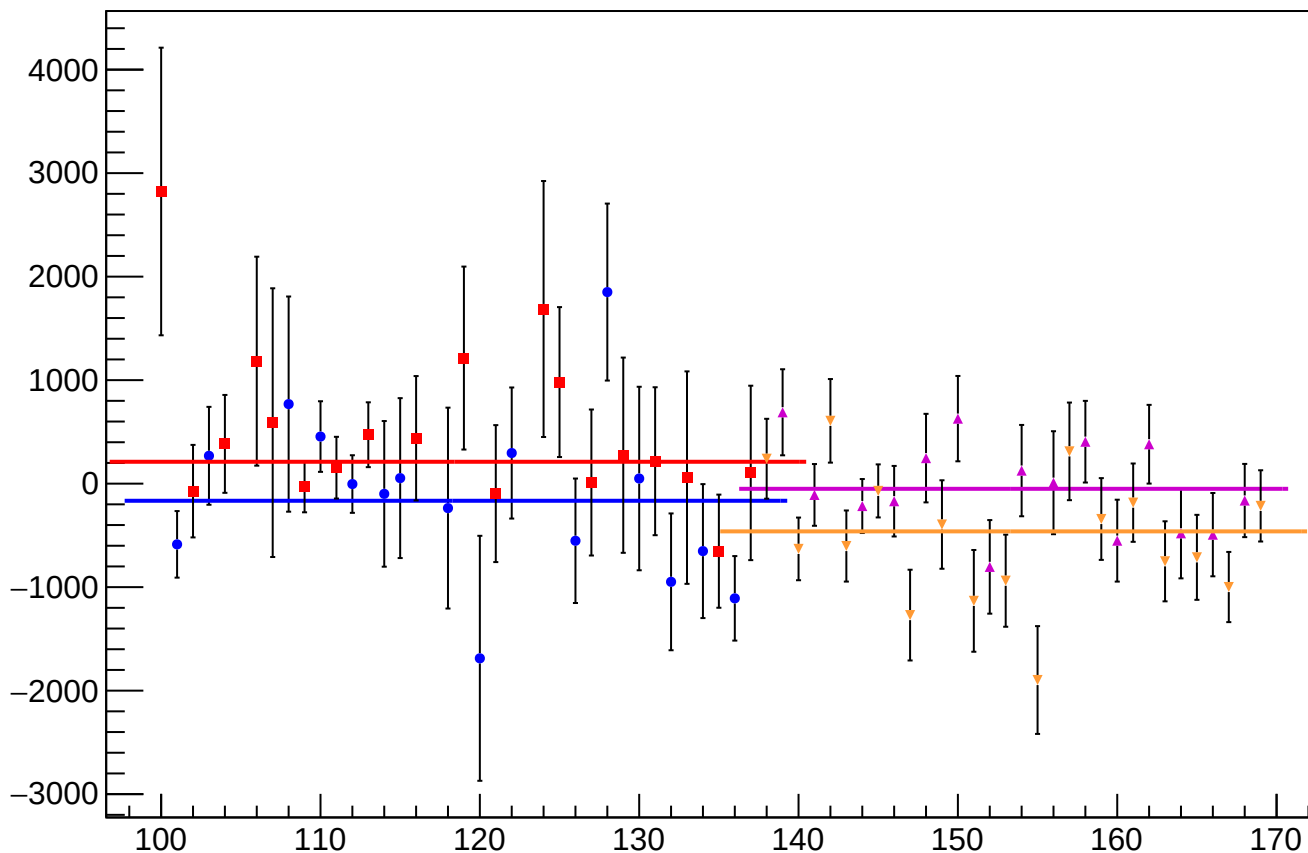
Right: 72.779 $\pm$ 0.014 χ^2 /NDF: 1618055.3/34

In: 71.814 $\pm$ 0.012 χ^2 /NDF: 774960.2/30

Out: 70.629 $\pm$ 0.011 χ^2 /NDF: 1054403.8/35

All: 71.195 $\pm$ 0.008 χ^2 /NDF: 1834810.9/66

asym_sam7_dit_correction_mean vs Slug, Sign Corrected



Right In: -165.500 $\pm$ 128.438 χ^2 /NDF: 22.6/15

Left Out: -461.238 $\pm$ 91.805 χ^2 /NDF:34.4/16

Right Out: 211.347 $\pm$ 120.122 χ^2 /NDF: 13.6/18

Left In: -49.982 $\pm$ 97.621 χ^2 /NDF:16.4/14

Left: -268.224 $\pm$ 66.878 χ^2 /NDF: 60.2/31

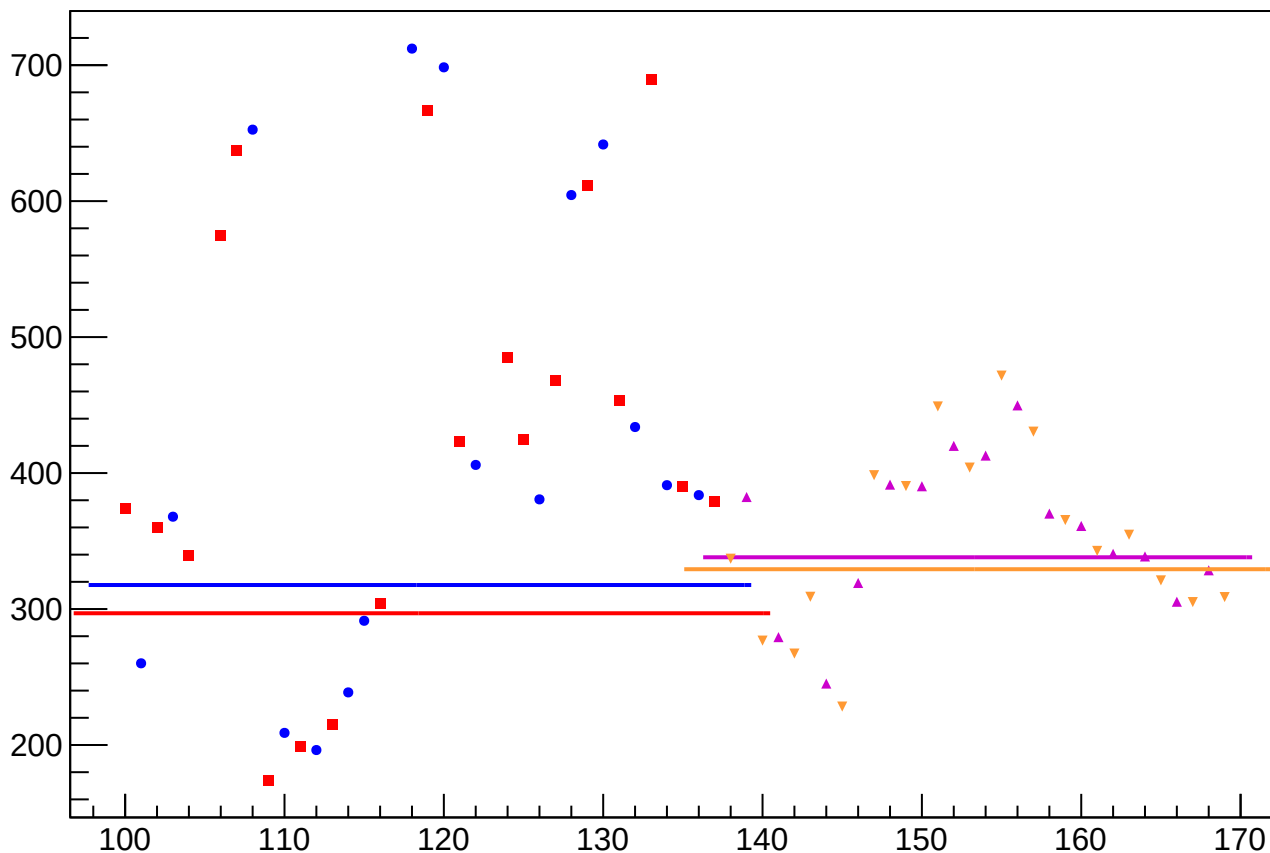
Right: 35.518 $\pm$ 87.732 χ^2 /NDF: 40.8/34

In: -92.280 $\pm$ 77.720 χ^2 /NDF:39.5/30

Out: -213.236 $\pm$ 72.942 χ^2 /NDF:67.8/35

All: -156.590 $\pm$ 53.186 χ^2 /NDF: 108.6/66

asym_sam7_dit_correction_rms vs Slug, Sign Corrected



Right In: 317.664 $\pm$ 0.091 χ^2 /NDF: 2136192.8/15

Left Out: 329.279 $\pm$ 0.065 χ^2 /NDF: 979023.8/16

Right Out: 296.888 $\pm$ 0.085 χ^2 /NDF: 2541040.3/18

Left In: 338.060 $\pm$ 0.069 χ^2 /NDF: 682252.0/14

Left: 333.400 $\pm$ 0.047 χ^2 /NDF: 1669863.3/31

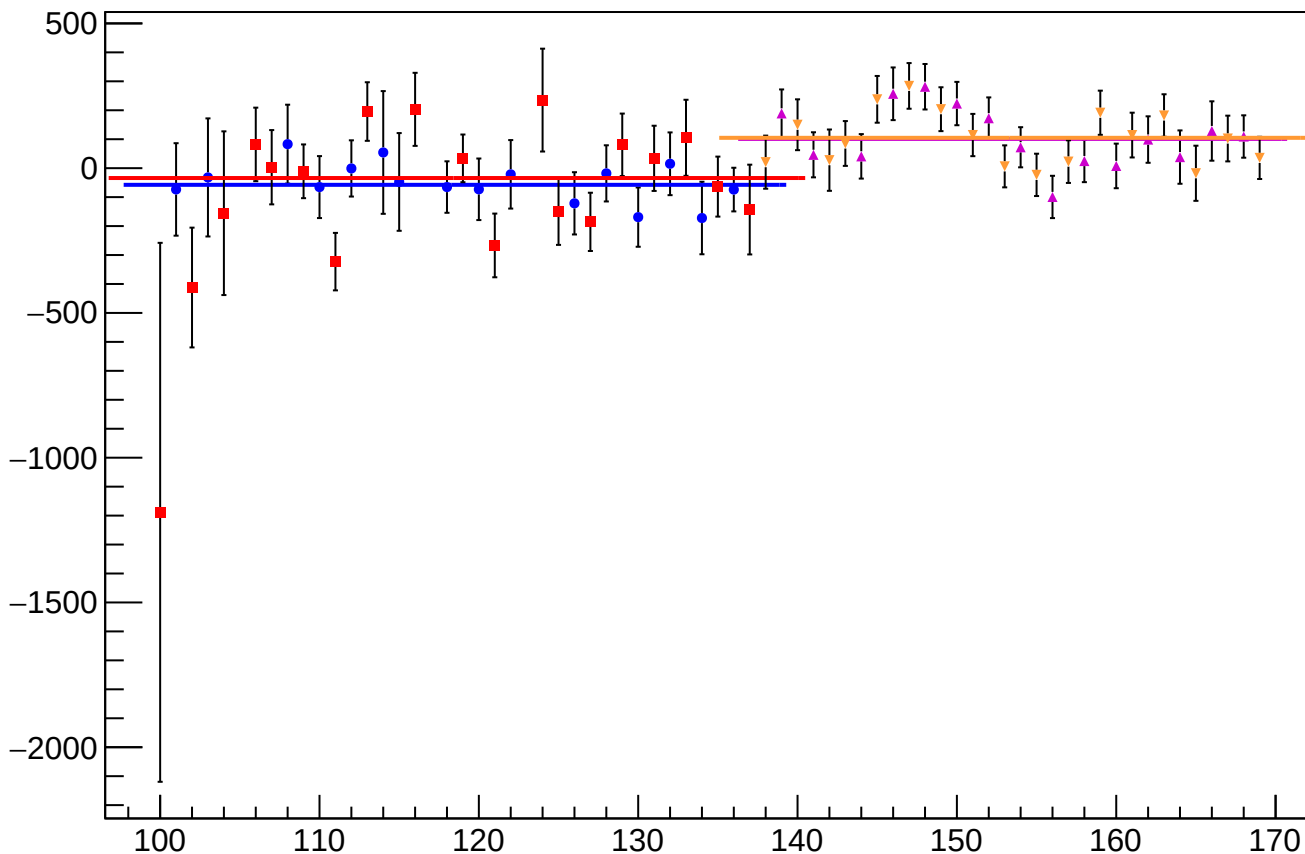
Right: 306.582 $\pm$ 0.062 χ^2 /NDF: 4705147.7/34

In: 330.592 $\pm$ 0.055 χ^2 /NDF: 2850413.9/30

Out: 317.336 $\pm$ 0.052 χ^2 /NDF: 3611866.7/35

All: 323.544 $\pm$ 0.038 χ^2 /NDF: 6493216.3/66

eigen_dit_asym_sam7_mean vs Slug, Sign Corrected



Right In: -57.532 ± 28.087 $\chi^2/\text{NDF}: 4.9/15$

Left Out: 104.827 ± 19.153 $\chi^2/\text{NDF}: 22.4/16$

Right Out: -34.034 ± 27.398 $\chi^2/\text{NDF}: 37.1/18$

Left In: 101.080 ± 20.235 $\chi^2/\text{NDF}: 24.9/14$

Left: 103.056 ± 13.910 $\chi^2/\text{NDF}: 47.4/31$

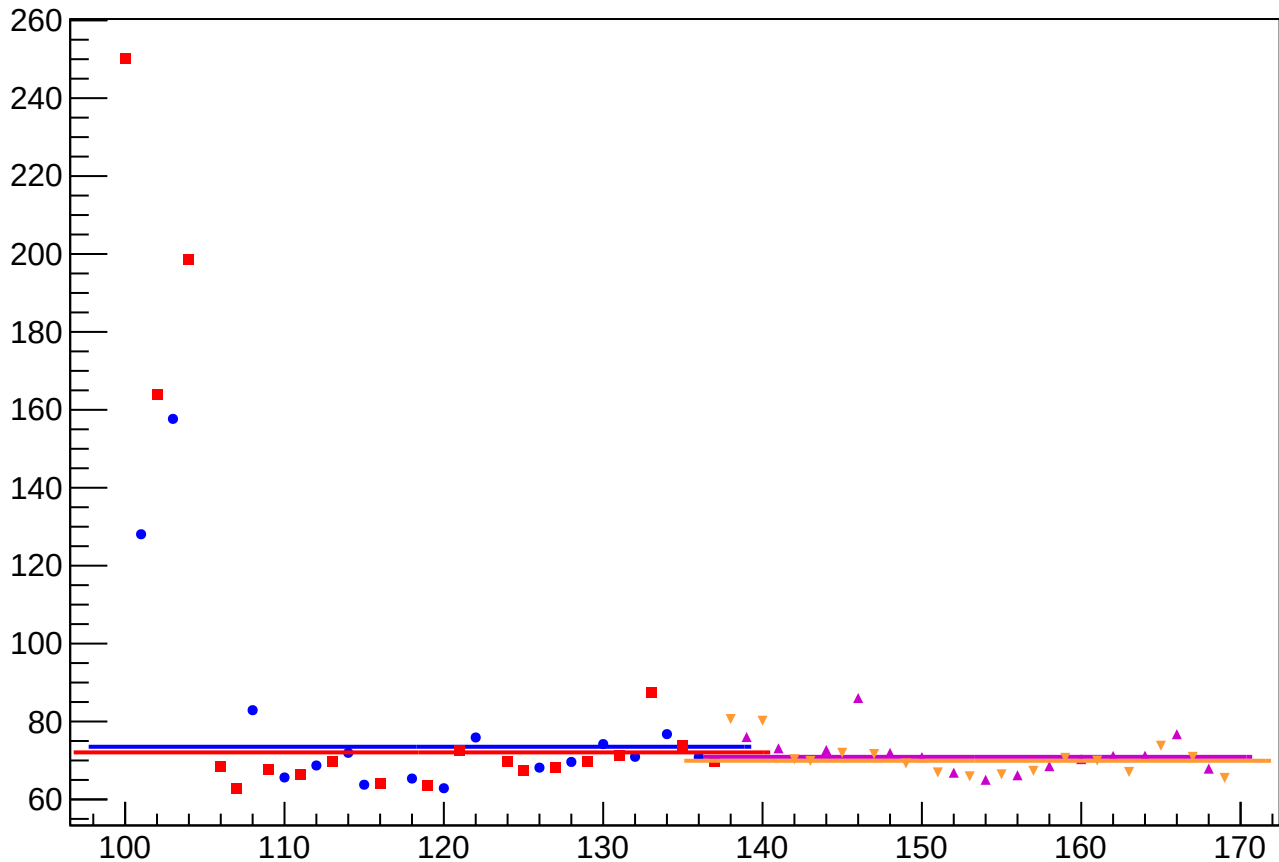
Right: -45.491 ± 19.612 $\chi^2/\text{NDF}: 42.4/34$

In: 46.883 ± 16.418 $\chi^2/\text{NDF}: 50.8/30$

Out: 59.242 ± 15.698 $\chi^2/\text{NDF}: 76.8/35$

All: 53.339 ± 11.346 $\chi^2/\text{NDF}: 127.9/66$

eigen_dit_asym_sam7_rms vs Slug, Sign Corrected



Left: 70.399 ± 0.010 $\chi^2/\text{NDF}: 197161.7/31$

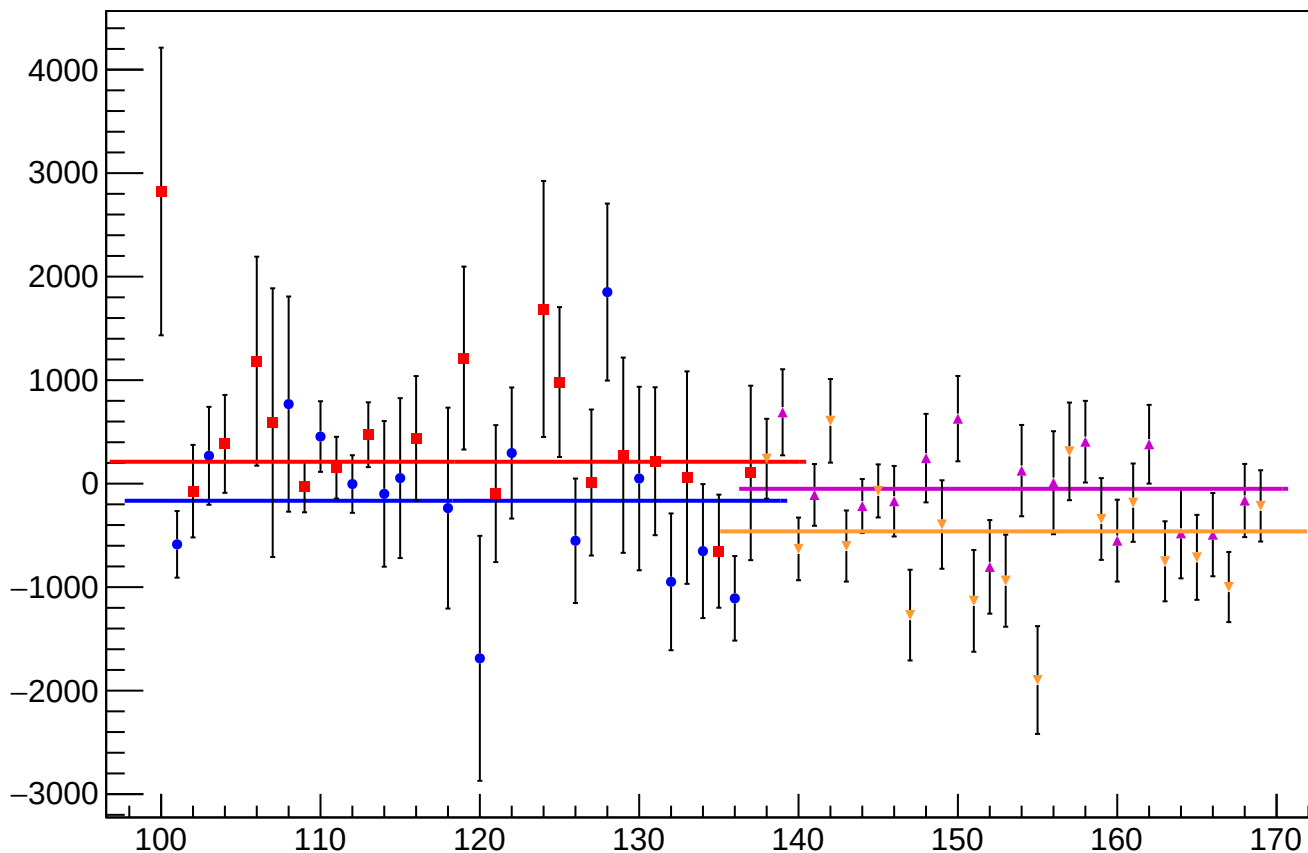
Right: 72.778 ± 0.014 $\chi^2/\text{NDF}: 1618058.1/34$

In: 71.814 ± 0.012 $\chi^2/\text{NDF}: 774960.4/30$

Out: 70.629 ± 0.011 $\chi^2/\text{NDF}: 1054403.3/35$

All: 71.195 ± 0.008 $\chi^2/\text{NDF}: 1834810.6/66$

asym_sam7_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -165.498 ± 128.437 χ^2/NDF : 22.6/15

Left Out: -461.238 ± 91.805 χ^2/NDF : 34.4/16

Right Out: 211.347 ± 120.121 χ^2/NDF : 13.6/18

Left In: -49.982 ± 97.621 χ^2/NDF : 16.4/14

Left: -268.224 ± 66.878 χ^2/NDF : 60.2/31

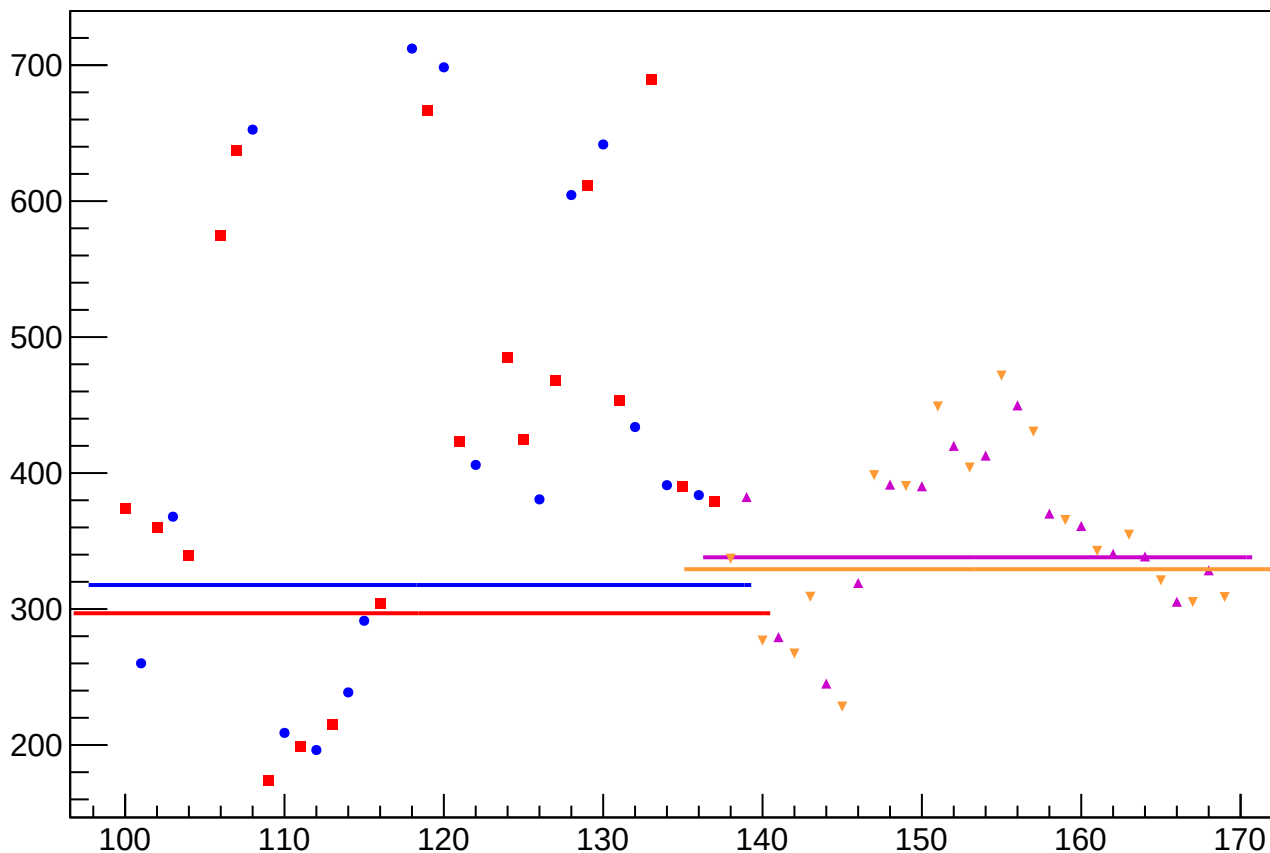
Right: 35.517 ± 87.731 χ^2/NDF : 40.8/34

In: -92.281 ± 77.719 χ^2/NDF : 39.5/30

Out: -213.235 ± 72.941 χ^2/NDF : 67.8/35

All: -156.590 ± 53.186 χ^2/NDF : 108.6/66

asym_sam7_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 317.661 $\pm$ 0.091 χ^2 /NDF: 2136224.4/15

Left Out: 329.279 $\pm$ 0.065 χ^2 /NDF: 979033.2/16

Right Out: 296.887 $\pm$ 0.085 χ^2 /NDF: 2541051.2/18

Left In: 338.060 $\pm$ 0.069 χ^2 /NDF: 682257.0/14

Left: 333.400 $\pm$ 0.047 χ^2 /NDF: 1669878.2/31

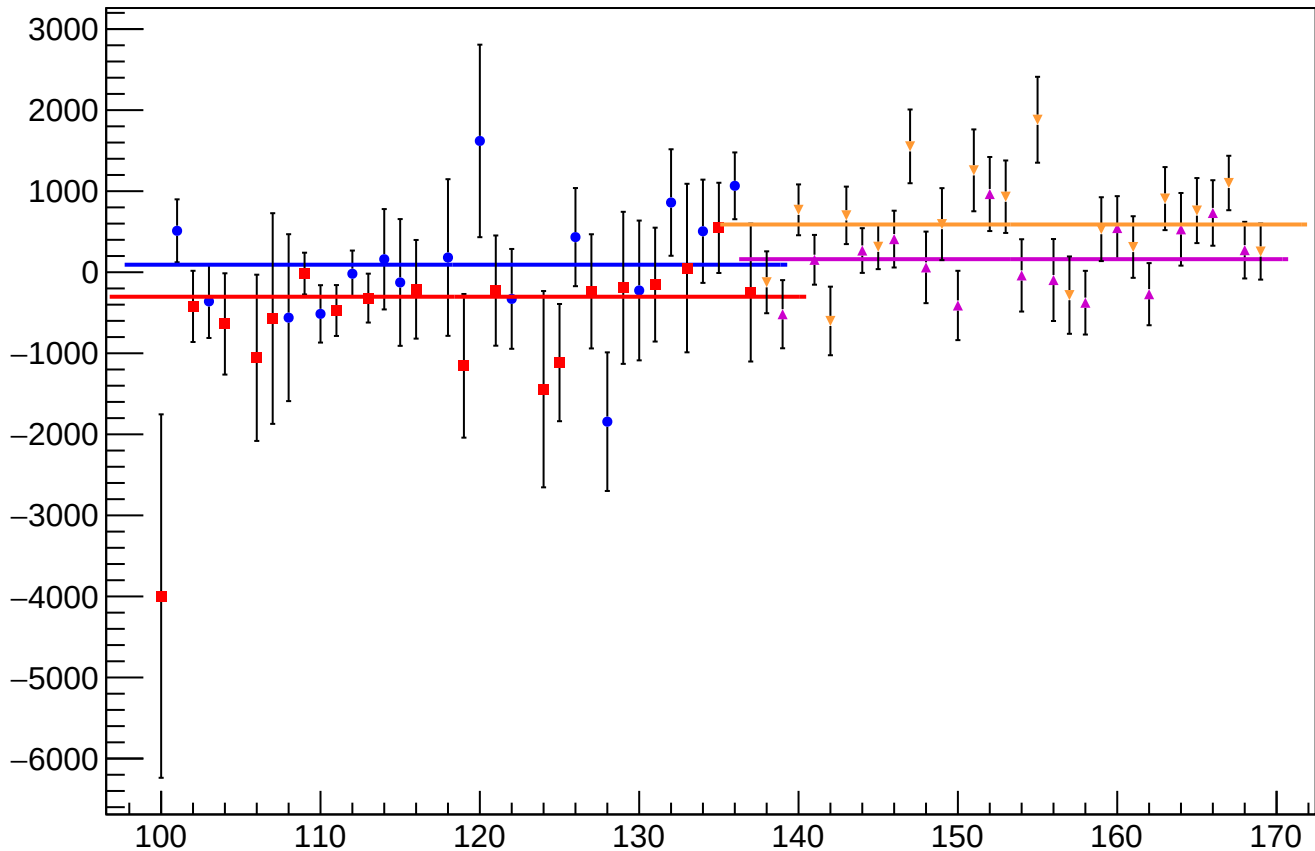
Right: 306.580 $\pm$ 0.062 χ^2 /NDF: 4705187.9/34

In: 330.591 $\pm$ 0.055 χ^2 /NDF: 2850458.3/30

Out: 317.335 $\pm$ 0.052 χ^2 /NDF: 3611894.7/35

All: 323.543 $\pm$ 0.038 χ^2 /NDF: 6493287.9/66

asym_sam7_mean vs Slug, Sign Corrected



Right In: 92.803 $\pm$ 131.927 χ^2/NDF : 20.8/15

Left Out: 589.057 $\pm$ 93.707 χ^2/NDF : 33.6/16

Right Out: -302.273 $\pm$ 123.916 χ^2/NDF : 10.8/18

Left In: 161.141 $\pm$ 99.538 χ^2/NDF : 15.5/14

Left: 387.998 $\pm$ 68.229 χ^2/NDF : 58.9/31

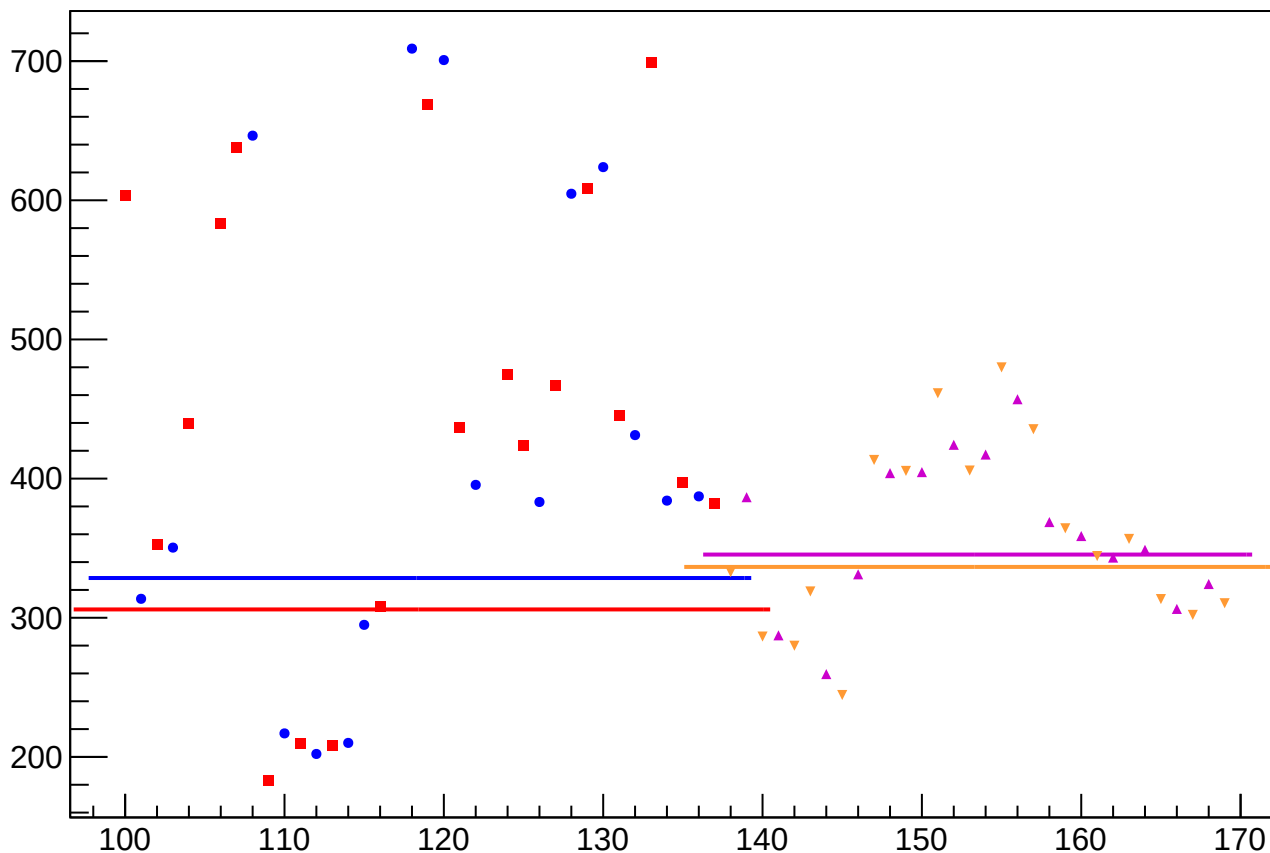
Right: -117.093 $\pm$ 90.322 χ^2/NDF : 36.4/34

In: 136.351 $\pm$ 79.459 χ^2/NDF : 36.5/30

Out: 264.781 $\pm$ 74.742 χ^2/NDF : 77.3/35

All: 204.491 $\pm$ 54.442 χ^2/NDF : 115.2/66

asym_sam7_rms vs Slug, Sign Corrected



Right In: 328.567 ± 0.093 $\chi^2/\text{NDF}: 1958873.4/15$

Left Out: 336.539 ± 0.066 $\chi^2/\text{NDF}: 877630.2/16$

Right Out: 305.988 ± 0.088 $\chi^2/\text{NDF}: 2527463.5/18$

Left In: 345.420 ± 0.070 $\chi^2/\text{NDF}: 605964.3/14$

Left: 340.712 ± 0.048 $\chi^2/\text{NDF}: 1492036.1/31$

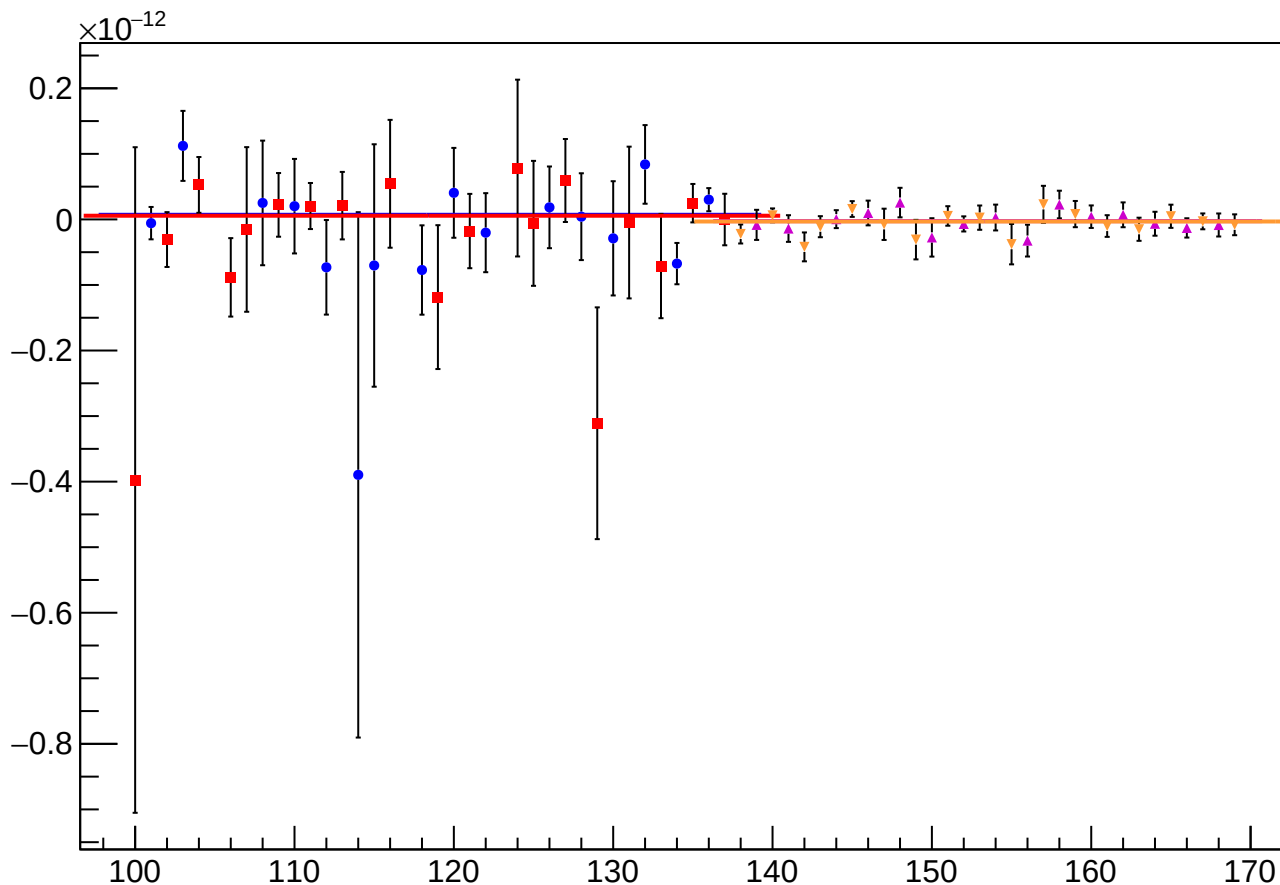
Right: 316.571 ± 0.064 $\chi^2/\text{NDF}: 4517458.9/34$

In: 339.307 ± 0.056 $\chi^2/\text{NDF}: 2585637.3/30$

Out: 325.424 ± 0.053 $\chi^2/\text{NDF}: 3482432.0/35$

All: 331.941 ± 0.038 $\chi^2/\text{NDF}: 6100458.8/66$

asym_sam7_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.7/15

Left Out: -0.000+/-0.000 χ^2/NDF : 13.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 12.8/18

Left In: -0.000+/-0.000 χ^2/NDF : 7.4/14

Left: -0.000+/-0.000 χ^2/NDF : 20.4/31

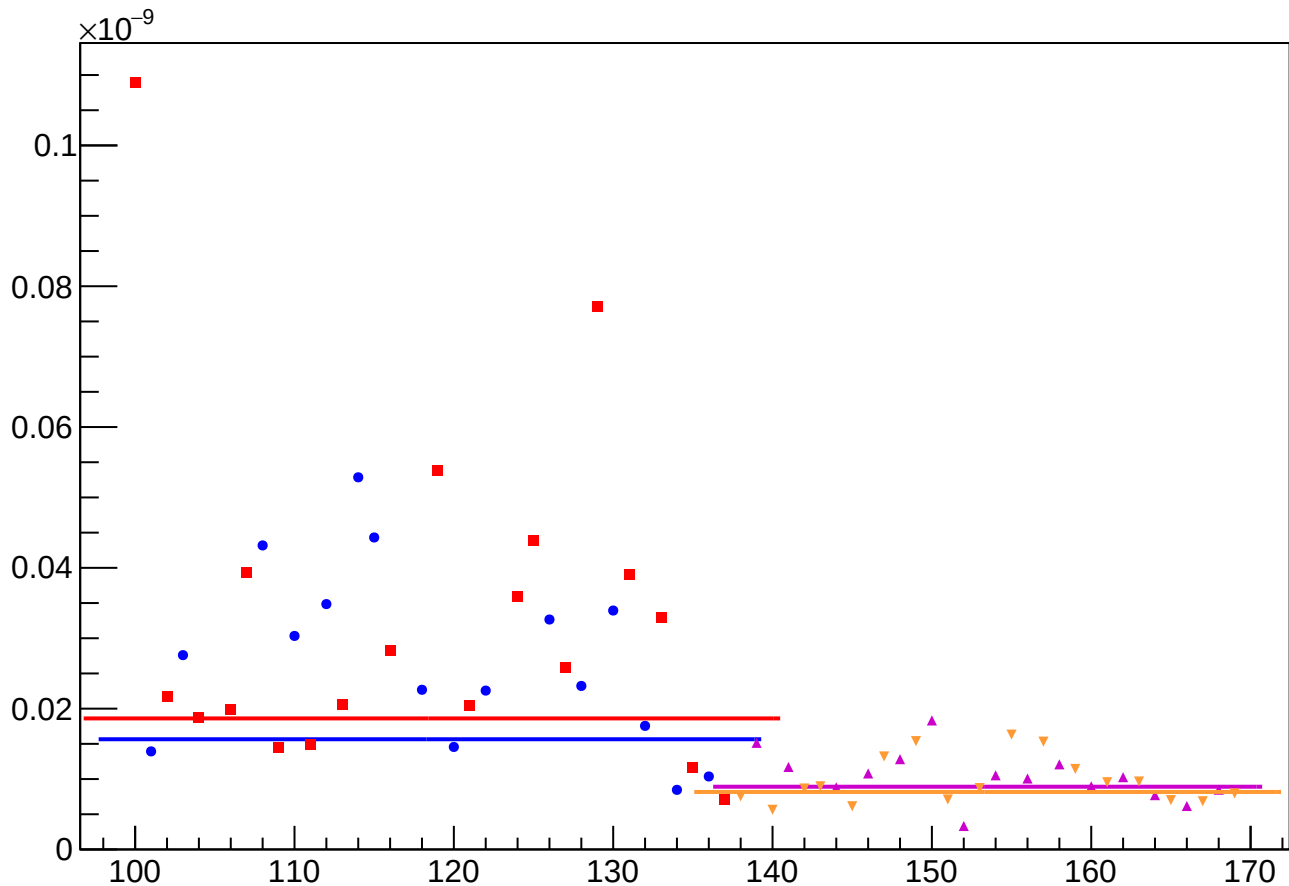
Right: 0.000+/-0.000 χ^2/NDF : 30.5/34

In: -0.000+/-0.000 χ^2/NDF : 25.7/30

Out: -0.000+/-0.000 χ^2/NDF : 26.3/35

All: -0.000+/-0.000 χ^2/NDF : 52.0/66

asym_sam7_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1164380.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 779761.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1228542.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 1092539.2/14

Left: 0.000+/-0.000 χ^2/NDF : 1901773.4/31

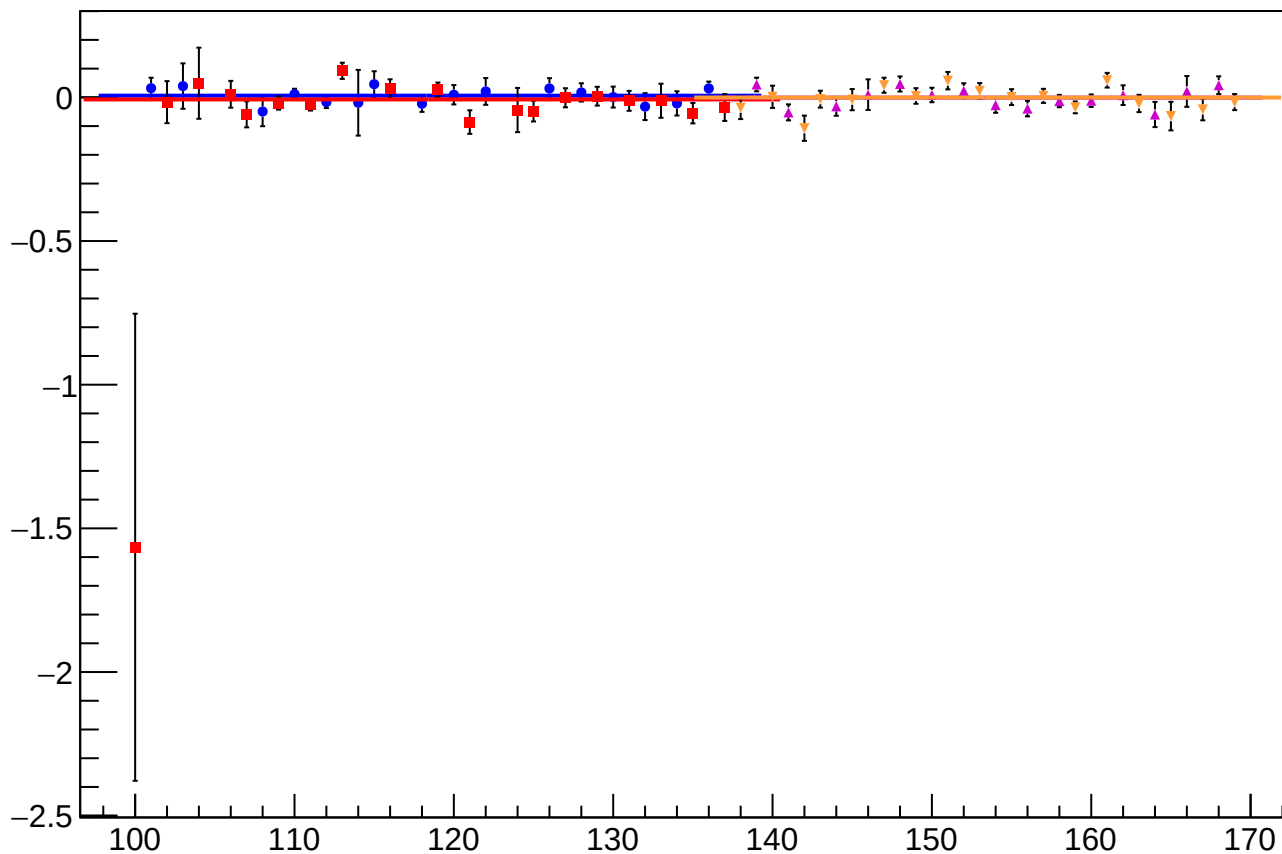
Right: 0.000+/-0.000 χ^2/NDF : 2454460.5/34

In: 0.000+/-0.000 χ^2/NDF : 2900282.1/30

Out: 0.000+/-0.000 χ^2/NDF : 3215729.9/35

All: 0.000+/-0.000 χ^2/NDF : 6159119.6/66

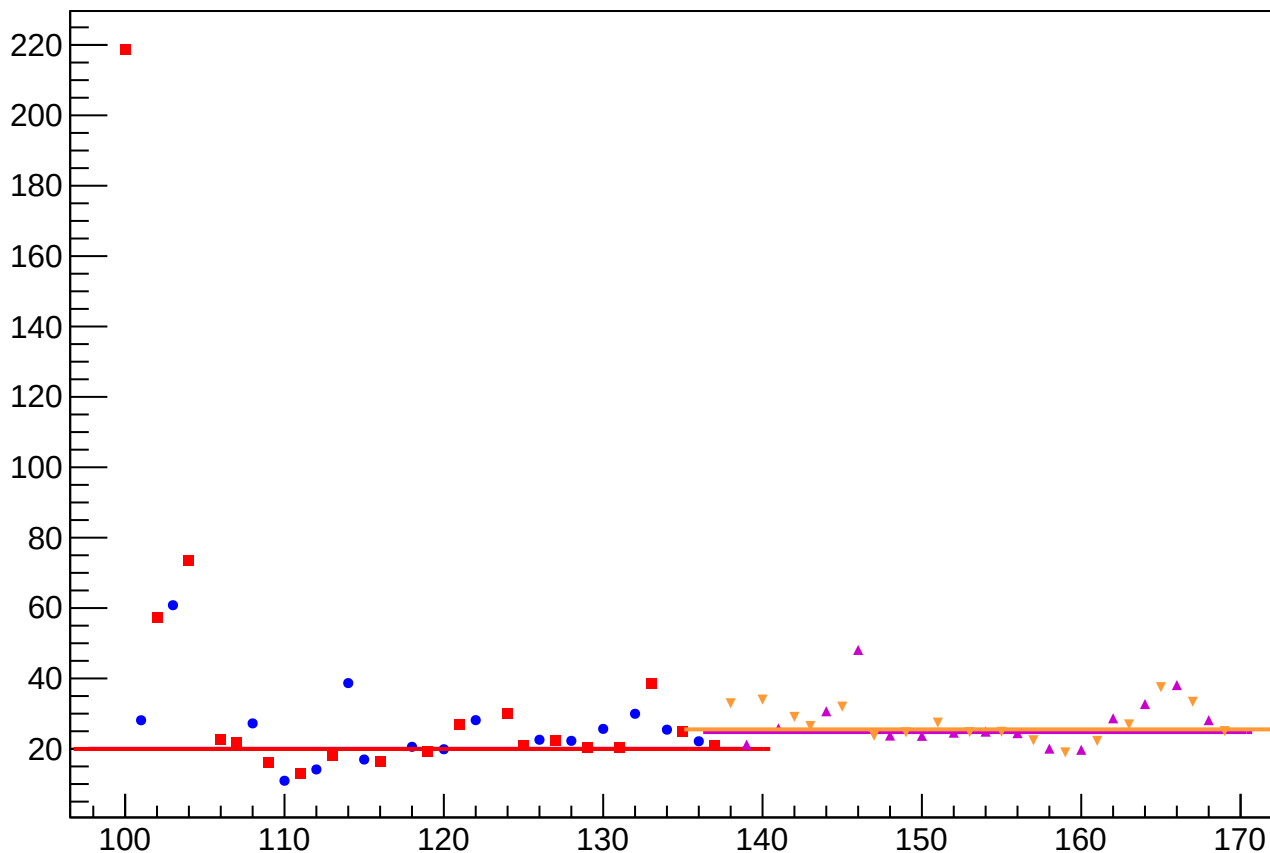
asym_sam7_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.008 χ^2 /NDF: 7.9/15
 Left Out: -0.001 $\pm$ 0.007 χ^2 /NDF:26.0/16
 Right Out: -0.007 $\pm$ 0.008 χ^2 /NDF: 29.8/18
 Left In: -0.001 $\pm$ 0.007 χ^2 /NDF:19.6/14

Left: -0.001 $\pm$ 0.005 χ^2 /NDF: 45.6/31
 Right: -0.001 $\pm$ 0.006 χ^2 /NDF: 39.0/34
 In: 0.002 $\pm$ 0.005 χ^2 /NDF:27.9/30
 Out: -0.004 $\pm$ 0.005 χ^2 /NDF:56.2/35
 All: -0.001 $\pm$ 0.004 χ^2 /NDF: 84.6/66

asym_sam7_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000 $\pm$ 0.006 χ^2 /NDF: 1641371.9/15

Left Out: 25.530 $\pm$ 0.005 χ^2 /NDF: 737919.7/16

Right Out: 19.963 $\pm$ 0.006 χ^2 /NDF: 1716895.2/18

Left In: 24.767 $\pm$ 0.005 χ^2 /NDF: 945561.2/14

Left: 25.155 $\pm$ 0.004 χ^2 /NDF: 1694515.8/31

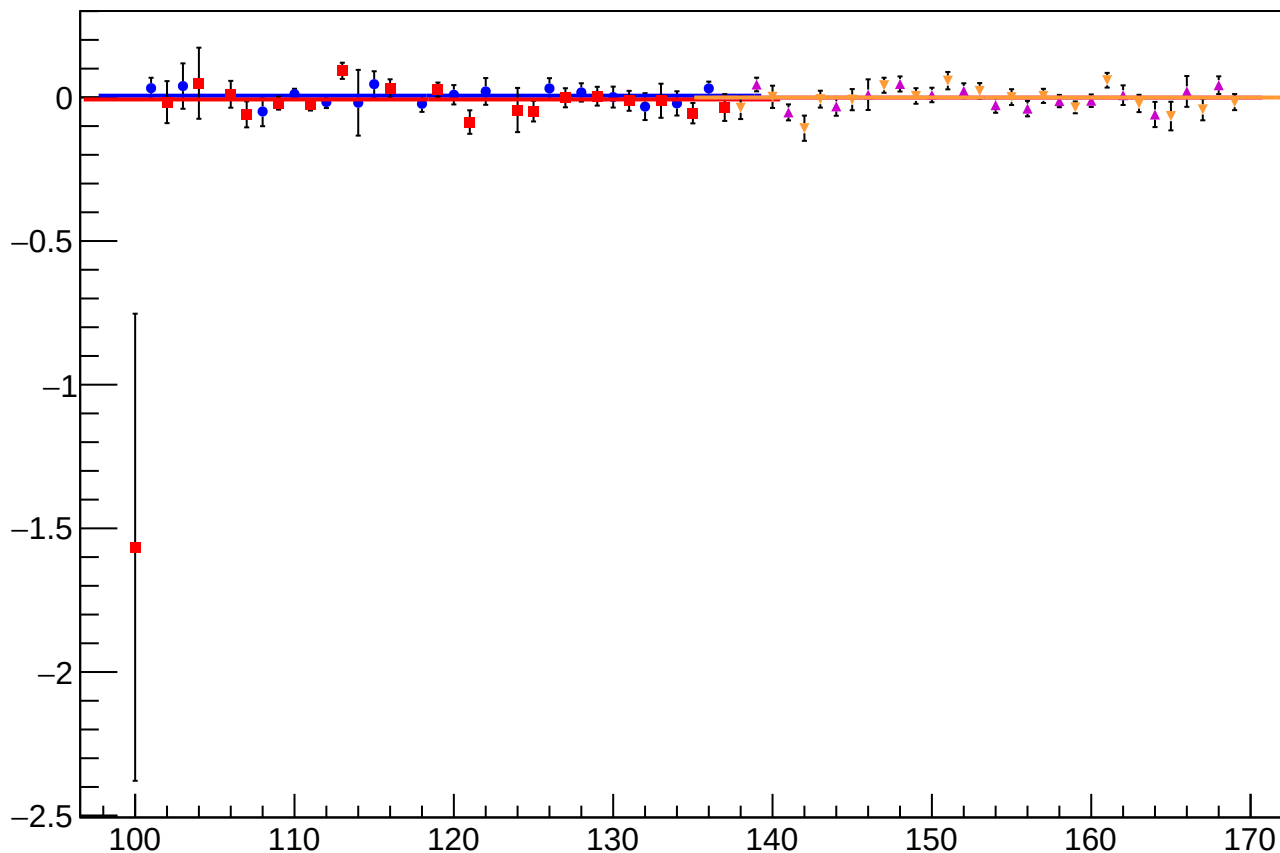
Right: 19.981 $\pm$ 0.004 χ^2 /NDF: 3358287.6/34

In: 22.641 $\pm$ 0.004 χ^2 /NDF: 2964336.0/30

Out: 23.072 $\pm$ 0.004 χ^2 /NDF: 2983112.8/35

All: 22.860 $\pm$ 0.003 χ^2 /NDF: 5953779.4/66

asym_sam7_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.008 χ^2 /NDF: 7.9/15

Left Out: -0.001 $\pm$ 0.007 χ^2 /NDF:26.0/16

Right Out: -0.007 $\pm$ 0.008 χ^2 /NDF: 29.8/18

Left In: -0.001 $\pm$ 0.007 χ^2 /NDF:19.6/14

Left: -0.001 $\pm$ 0.005 χ^2 /NDF: 45.6/31

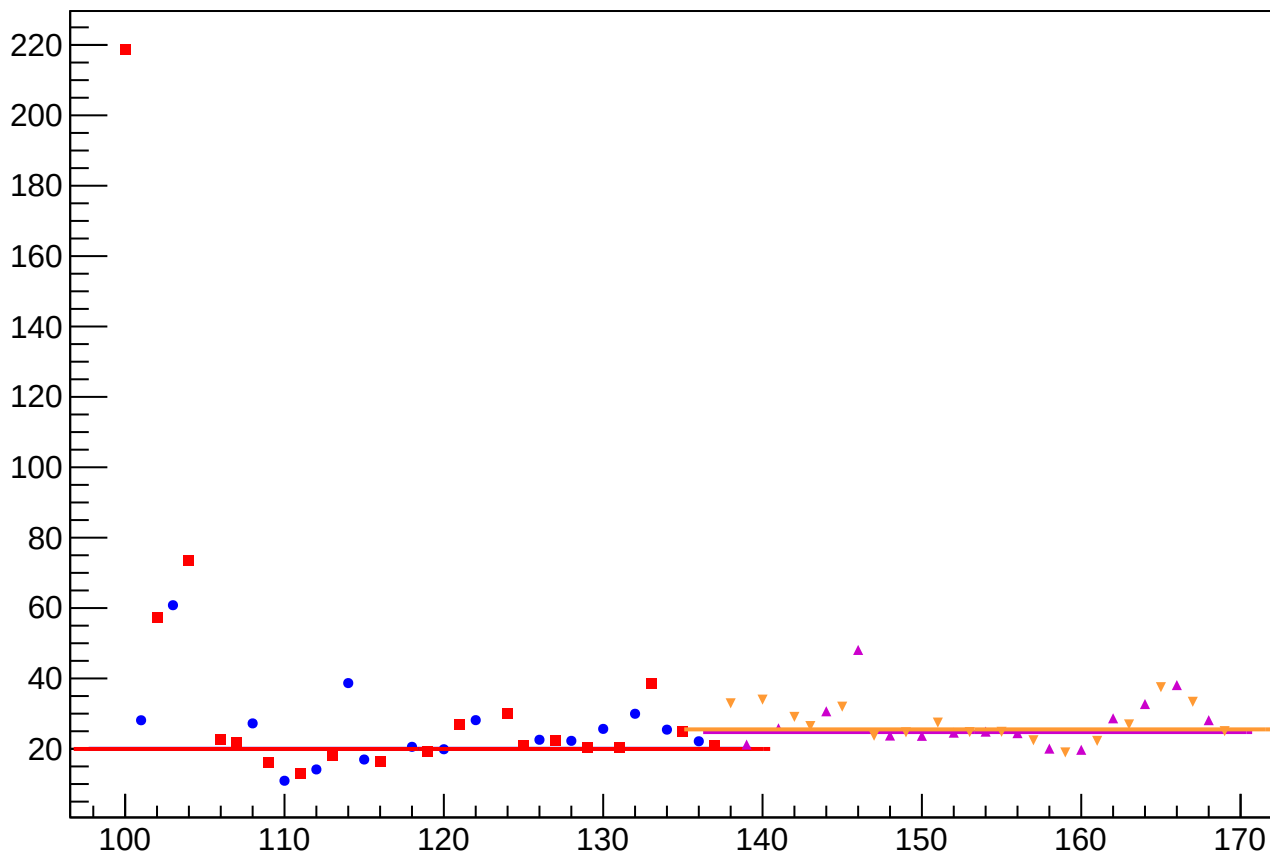
Right: -0.001 $\pm$ 0.006 χ^2 /NDF: 39.0/34

In: 0.002 $\pm$ 0.005 χ^2 /NDF:27.9/30

Out: -0.004 $\pm$ 0.005 χ^2 /NDF:56.2/35

All: -0.001 $\pm$ 0.004 χ^2 /NDF: 84.6/66

asym_sam7_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000 $\pm$ 0.006 χ^2 /NDF: 1641371.9/15

Left Out: 25.530 $\pm$ 0.005 χ^2 /NDF: 737919.7/16

Right Out: 19.963 $\pm$ 0.006 χ^2 /NDF: 1716895.2/18

Left In: 24.767 $\pm$ 0.005 χ^2 /NDF: 945561.2/14

Left: 25.155 $\pm$ 0.004 χ^2 /NDF: 1694515.8/31

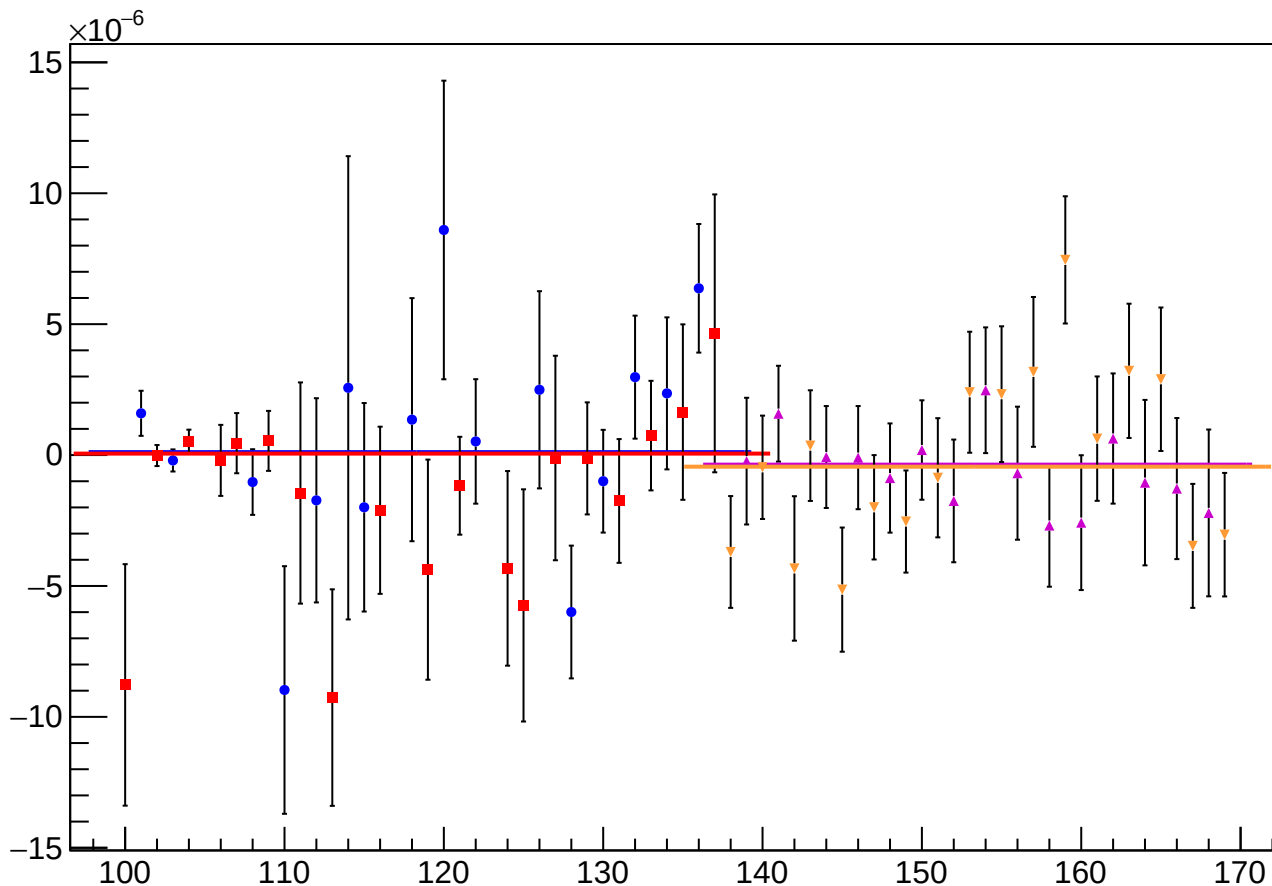
Right: 19.981 $\pm$ 0.004 χ^2 /NDF: 3358287.6/34

In: 22.641 $\pm$ 0.004 χ^2 /NDF: 2964336.0/30

Out: 23.072 $\pm$ 0.004 χ^2 /NDF: 2983112.8/35

All: 22.860 $\pm$ 0.003 χ^2 /NDF: 5953779.4/66

asym_sam7_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 26.0/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:31.6/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 17.1/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:5.5/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 37.0/31

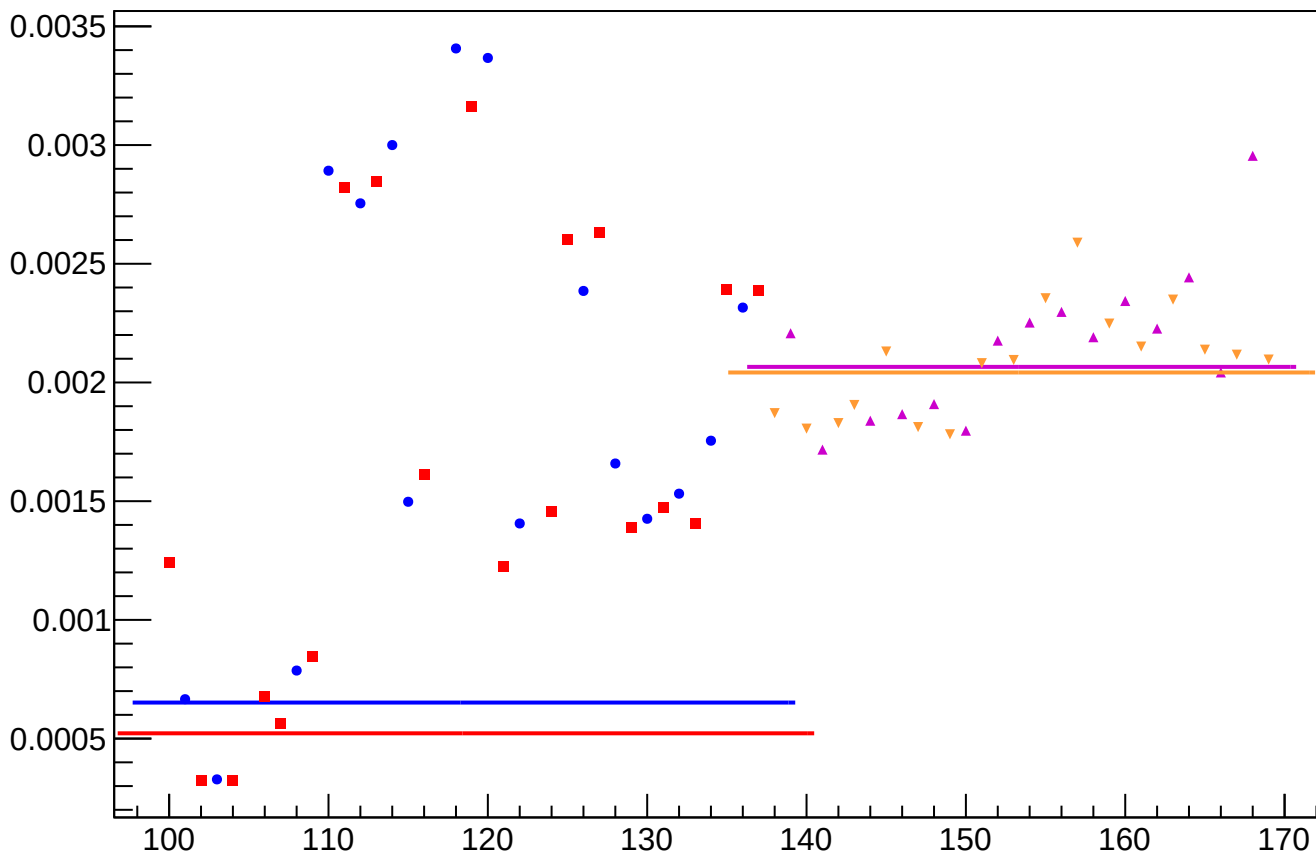
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 43.2/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:32.0/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:49.3/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 81.3/66

asym_sam7_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 6357494.9/15

Left Out: 0.002+/-0.000

χ^2/NDF : 283413.6/16

Right Out: 0.001+/-0.000

χ^2/NDF : 6676790.5/18

Left In: 0.002+/-0.000

χ^2/NDF : 433133.5/14

Left: 0.002+/-0.000

χ^2/NDF : 718218.3/31

Right: 0.001+/-0.000

χ^2/NDF : 13221881.1/34

In: 0.001+/-0.000

χ^2/NDF : 15421807.2/30

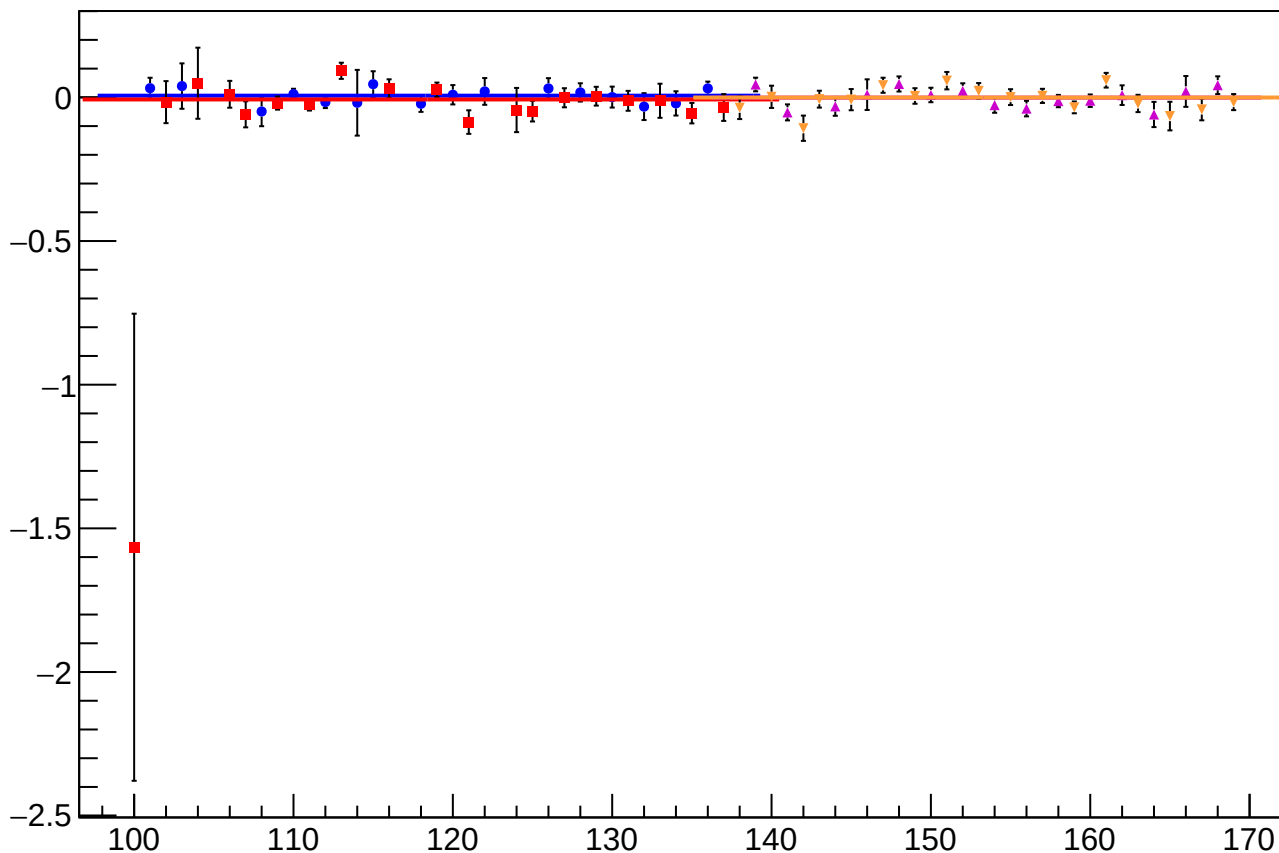
Out: 0.001+/-0.000

χ^2/NDF : 18998634.8/35

All: 0.001+/-0.000

χ^2/NDF : 34993844.6/66

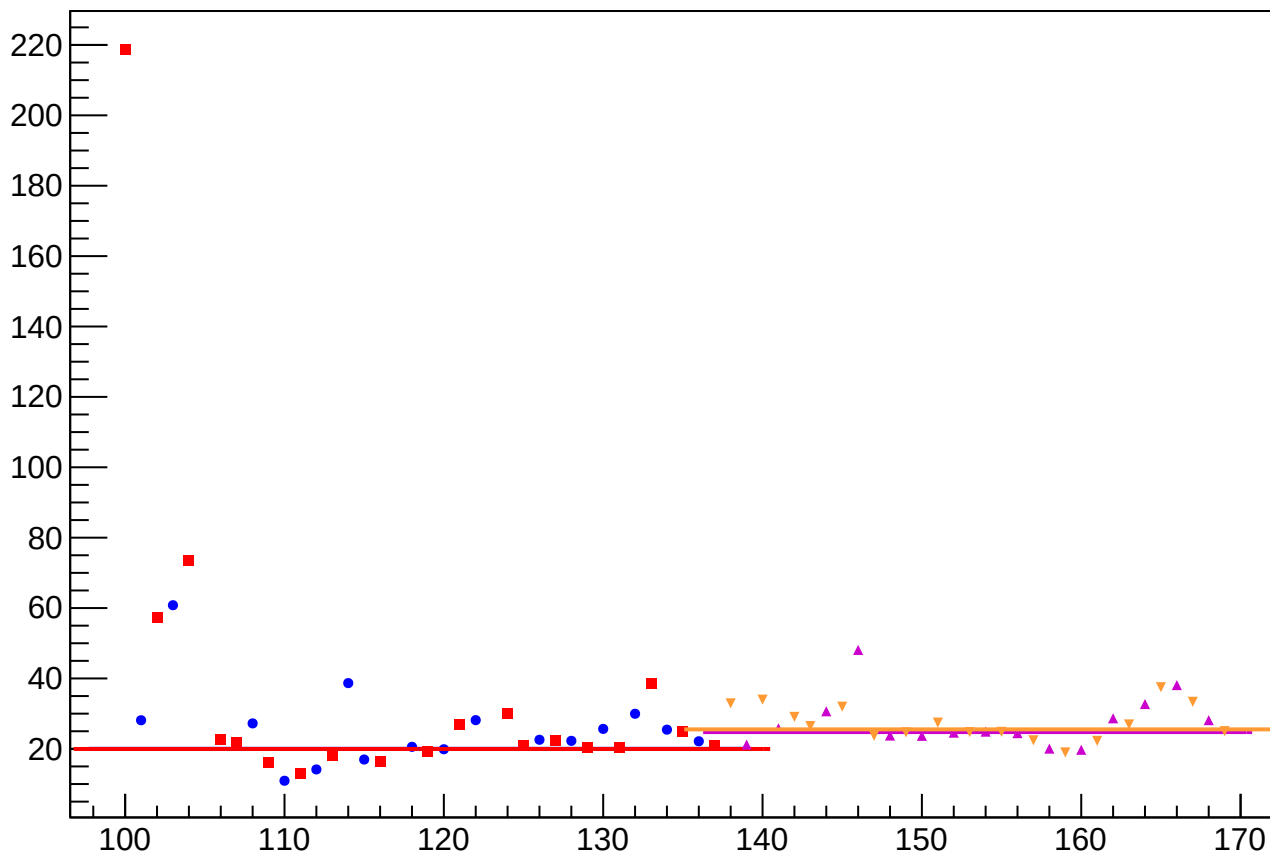
asym_sam7_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.008 χ^2 /NDF: 7.9/15
 Left Out: -0.001 $\pm$ 0.007 χ^2 /NDF:26.0/16
 Right Out: -0.007 $\pm$ 0.008 χ^2 /NDF: 29.8/18
 Left In: -0.001 $\pm$ 0.007 χ^2 /NDF:19.6/14

Left: -0.001 $\pm$ 0.005 χ^2 /NDF: 45.6/31
 Right: -0.001 $\pm$ 0.006 χ^2 /NDF: 39.0/34
 In: 0.002 $\pm$ 0.005 χ^2 /NDF:27.9/30
 Out: -0.004 $\pm$ 0.005 χ^2 /NDF:56.2/35
 All: -0.001 $\pm$ 0.004 χ^2 /NDF: 84.6/66

asym_sam7_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000 $\pm$ 0.006 χ^2 /NDF: 1641197.3/15

Left Out: 25.530 $\pm$ 0.005 χ^2 /NDF: 737962.8/16

Right Out: 19.963 $\pm$ 0.006 χ^2 /NDF: 1716830.0/18

Left In: 24.767 $\pm$ 0.005 χ^2 /NDF: 945612.8/14

Left: 25.155 $\pm$ 0.004 χ^2 /NDF: 1694611.7/31

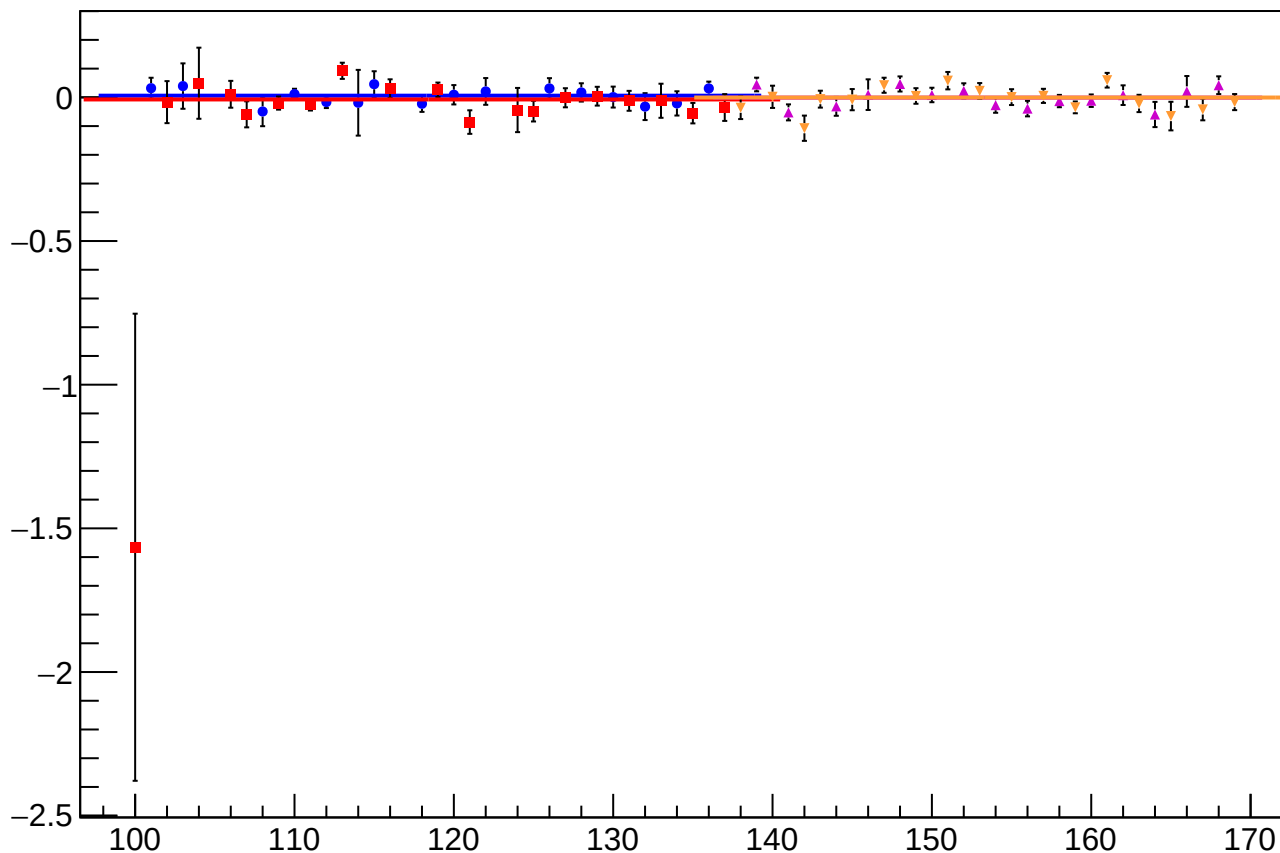
Right: 19.981 $\pm$ 0.004 χ^2 /NDF: 3358048.3/34

In: 22.641 $\pm$ 0.004 χ^2 /NDF: 2964123.5/30

Out: 23.072 $\pm$ 0.004 χ^2 /NDF: 2983060.8/35

All: 22.860 $\pm$ 0.003 χ^2 /NDF: 5953510.1/66

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.008 χ^2 /NDF: 7.9/15

Left Out: -0.001 $\pm$ 0.007 χ^2 /NDF:26.0/16

Right Out: -0.007 $\pm$ 0.008 χ^2 /NDF: 29.8/18

Left In: -0.001 $\pm$ 0.007 χ^2 /NDF:19.6/14

Left: -0.001 $\pm$ 0.005 χ^2 /NDF: 45.6/31

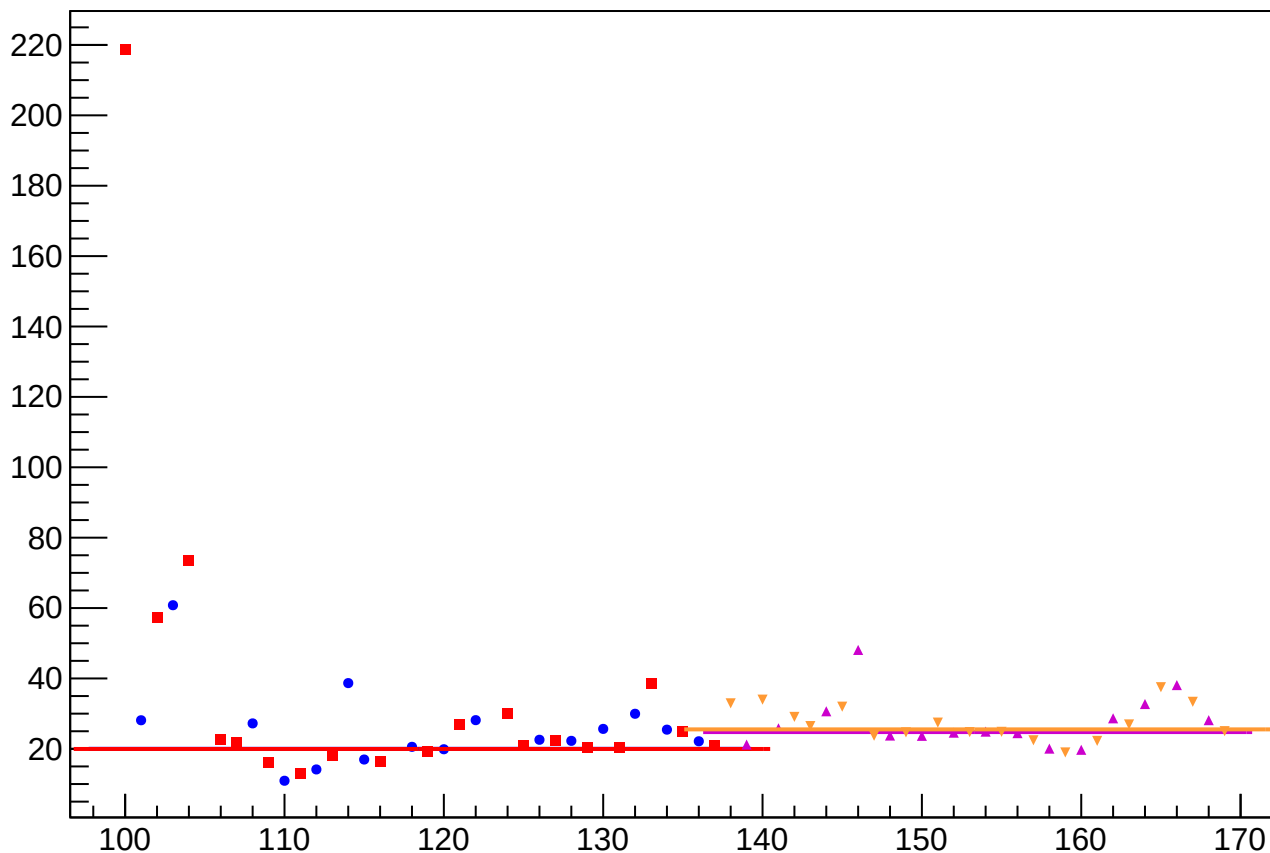
Right: -0.001 $\pm$ 0.006 χ^2 /NDF: 39.0/34

In: 0.002 $\pm$ 0.005 χ^2 /NDF:27.9/30

Out: -0.004 $\pm$ 0.005 χ^2 /NDF:56.2/35

All: -0.001 $\pm$ 0.004 χ^2 /NDF: 84.6/66

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.000+/-0.006 χ^2/NDF : 1641197.3/15

Left Out: 25.530+/-0.005 χ^2/NDF : 737962.8/16

Right Out: 19.963+/-0.006 χ^2/NDF : 1716830.0/18

Left In: 24.767+/-0.005 χ^2/NDF : 945612.8/14

Left: 25.155+/-0.004 χ^2/NDF : 1694611.7/31

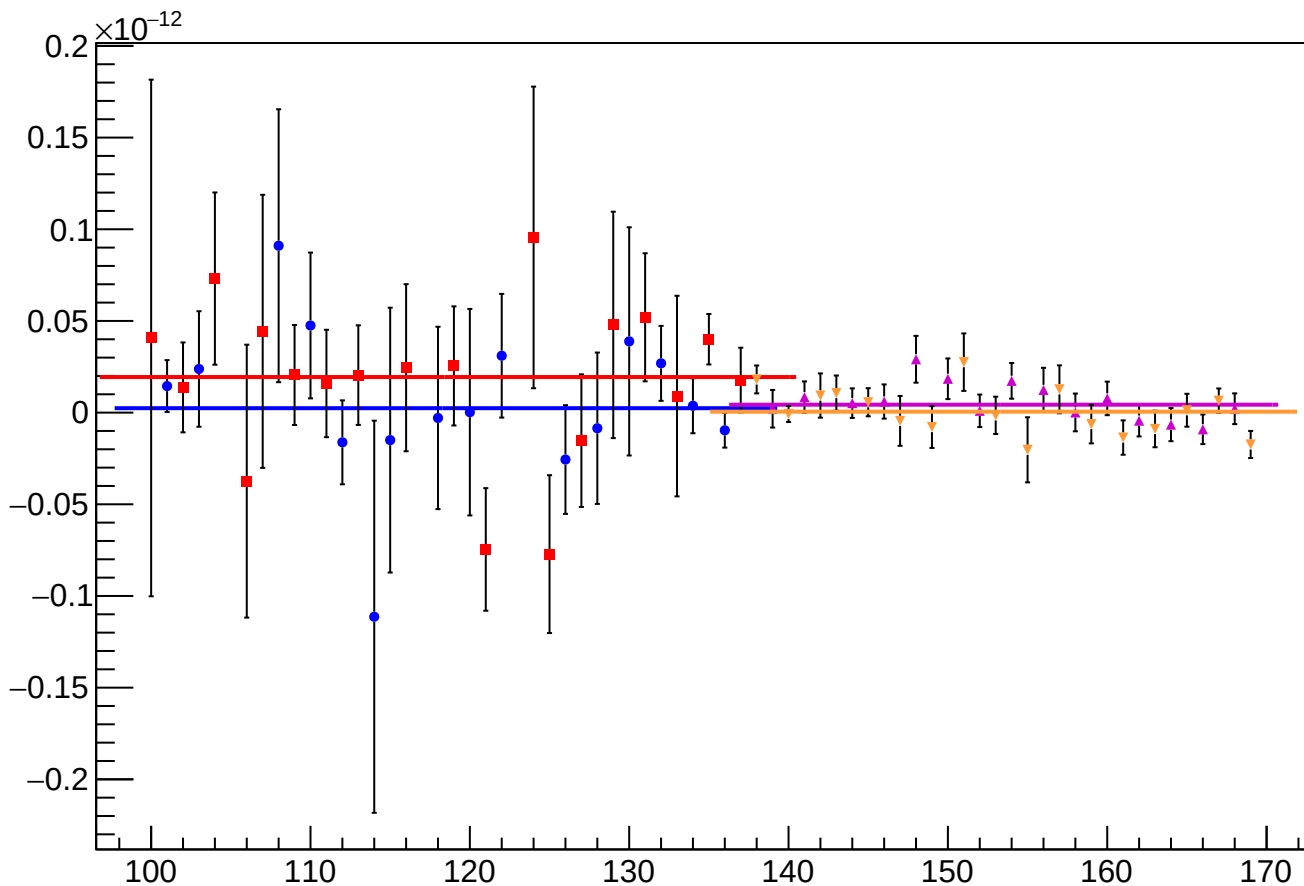
Right: 19.981+/-0.004 χ^2/NDF : 3358048.3/34

In: 22.641+/-0.004 χ^2/NDF : 2964123.5/30

Out: 23.072+/-0.004 χ^2/NDF : 2983060.8/35

All: 22.860+/-0.003 χ^2/NDF : 5953510.1/66

asym_sam7_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :23.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 20.2/18

Left In: 0.000+/-0.000 χ^2/NDF :13.7/14

Left: 0.000+/-0.000 χ^2/NDF : 38.8/31

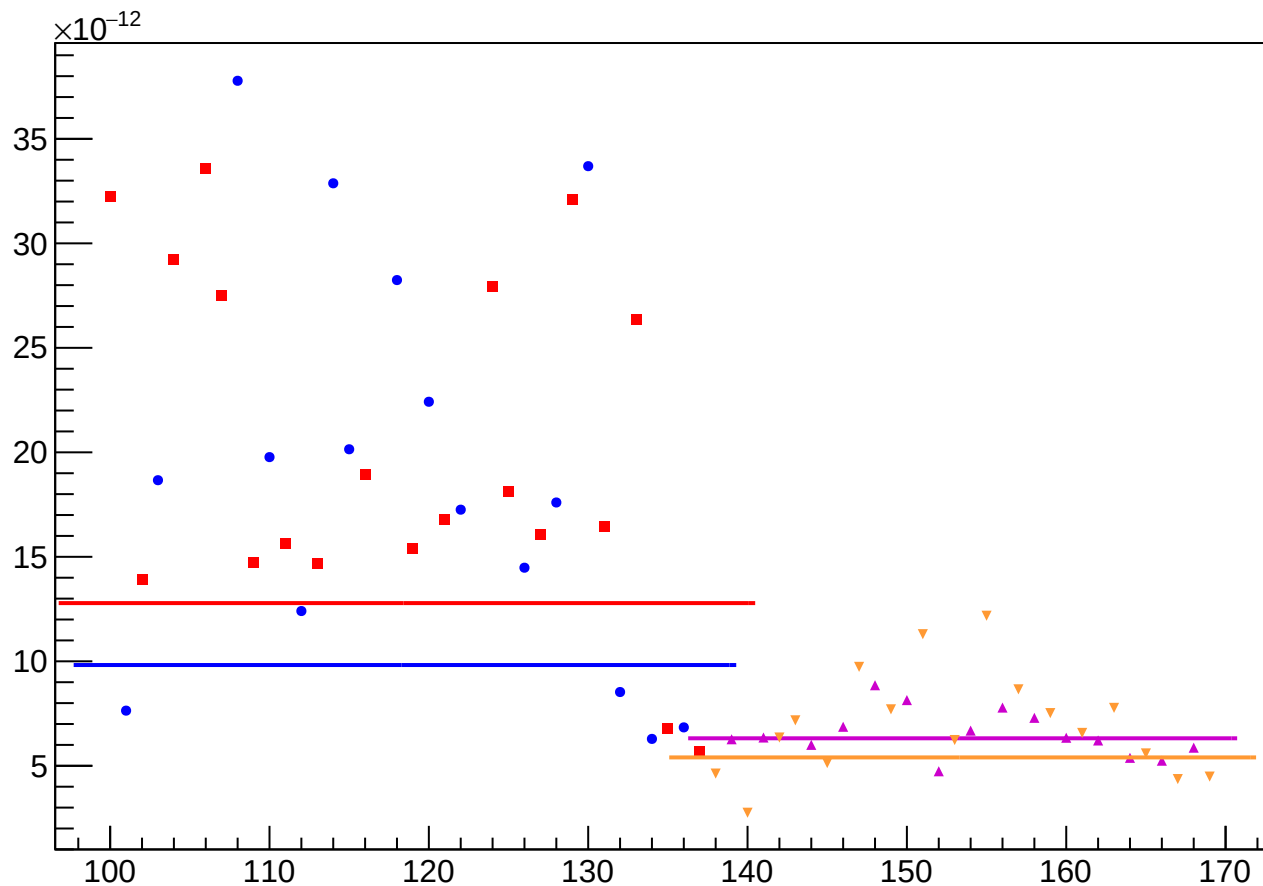
Right: 0.000+/-0.000 χ^2/NDF : 34.6/34

In: 0.000+/-0.000 χ^2/NDF :24.6/30

Out: 0.000+/-0.000 χ^2/NDF :50.5/35

All: 0.000+/-0.000 χ^2/NDF : 75.6/66

asym_sam7_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1977074.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2149803.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1798852.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 320282.5/14

Left: 0.000+/-0.000 χ^2/NDF : 2632658.0/31

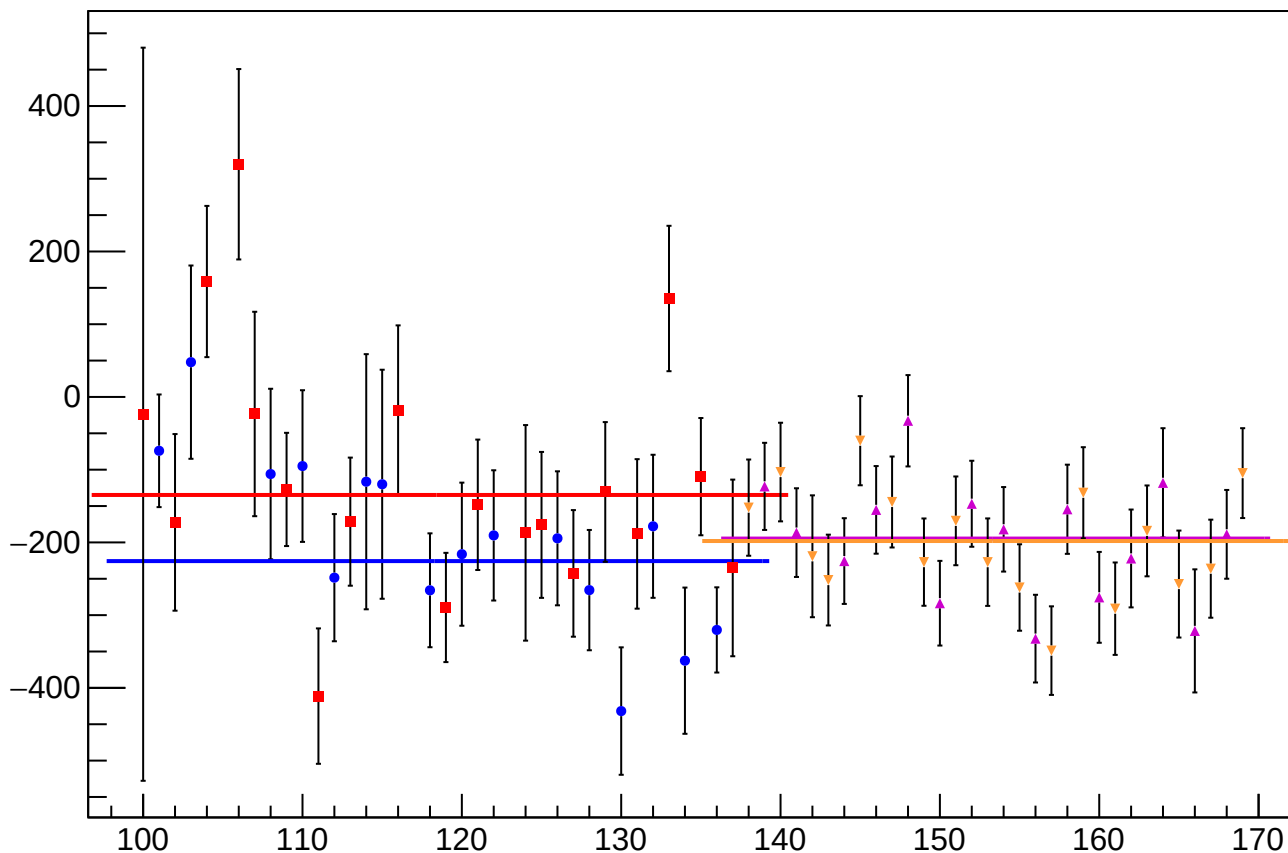
Right: 0.000+/-0.000 χ^2/NDF : 3988919.3/34

In: 0.000+/-0.000 χ^2/NDF : 2936306.5/30

Out: 0.000+/-0.000 χ^2/NDF : 5958421.0/35

All: 0.000+/-0.000 χ^2/NDF : 9051415.9/66

reg_asym_sam8_mean vs Slug, Sign Corrected



Right In: -225.692 ± 23.118 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -198.091 ± 15.488 $\chi^2/\text{NDF}: 23.6/16$

Right Out: -134.762 ± 23.192 $\chi^2/\text{NDF}: 45.3/18$

Left In: -194.716 ± 16.125 $\chi^2/\text{NDF}: 22.6/14$

Left: -196.471 ± 11.170 $\chi^2/\text{NDF}: 46.2/31$

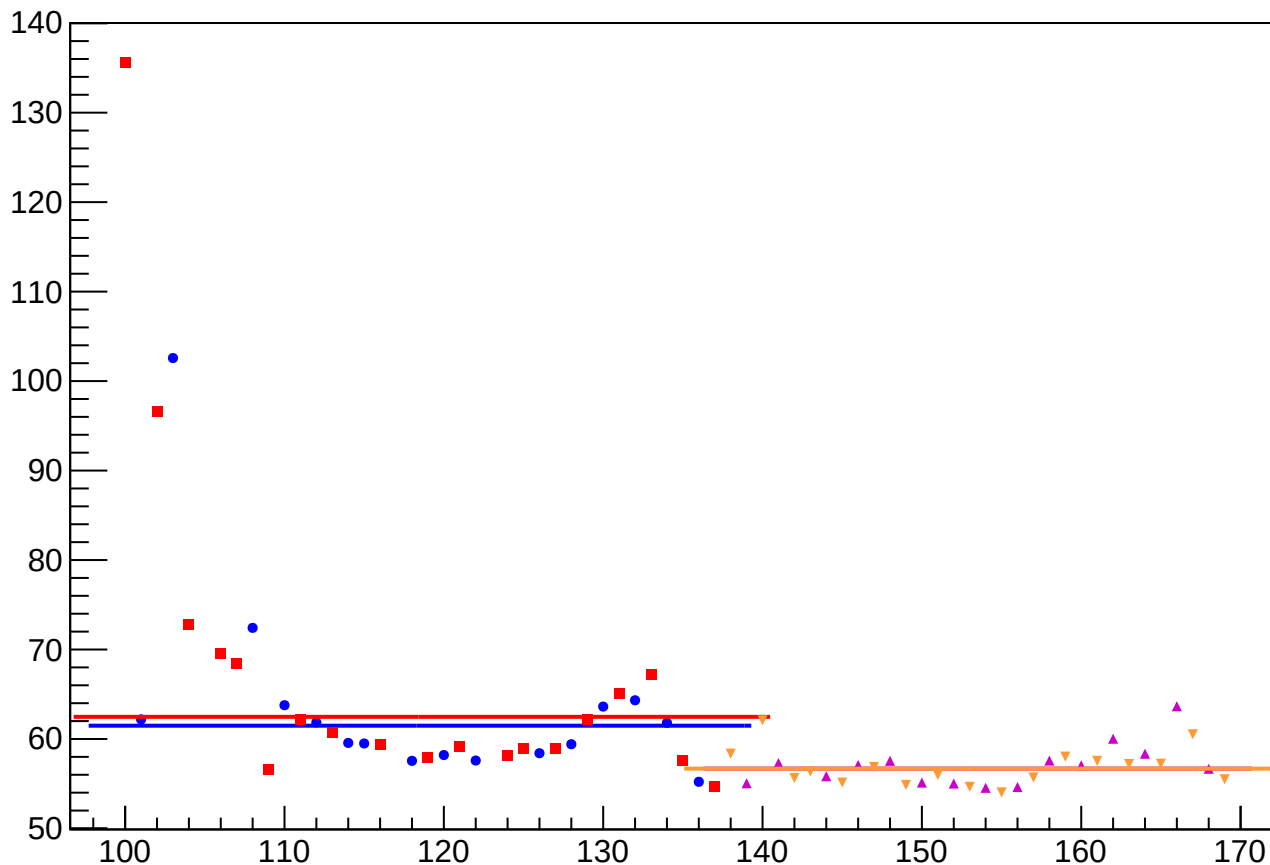
Right: -180.371 ± 16.373 $\chi^2/\text{NDF}: 75.6/34$

In: -204.853 ± 13.225 $\chi^2/\text{NDF}: 46.4/30$

Out: -178.557 ± 12.880 $\chi^2/\text{NDF}: 74.0/35$

All: -191.357 ± 9.227 $\chi^2/\text{NDF}: 122.4/66$

reg_asym_sam8_rms vs Slug, Sign Corrected



Right In: 61.486 $\pm$ 0.016 χ^2 /NDF: 250669.2/15

Left Out: 56.688 $\pm$ 0.011 χ^2 /NDF: 33318.9/16

Right Out: 62.476 $\pm$ 0.016 χ^2 /NDF: 281148.3/18

Left In: 56.691 $\pm$ 0.011 χ^2 /NDF: 30666.4/14

Left: 56.689 $\pm$ 0.008 χ^2 /NDF: 63985.3/31

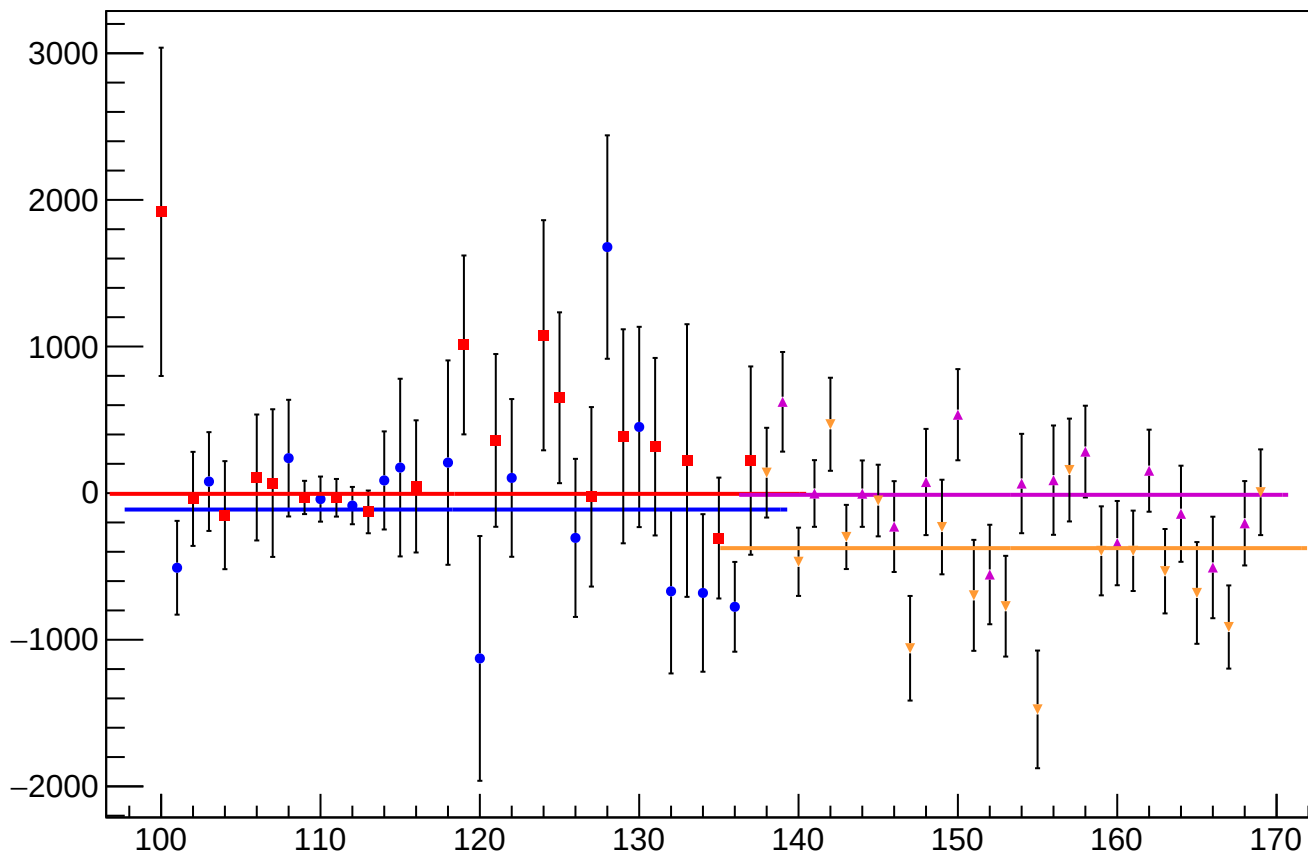
Right: 61.979 $\pm$ 0.012 χ^2 /NDF: 533645.0/34

In: 58.260 $\pm$ 0.009 χ^2 /NDF: 339224.4/30

Out: 58.473 $\pm$ 0.009 χ^2 /NDF: 400620.1/35

All: 58.369 $\pm$ 0.007 χ^2 /NDF: 740110.9/66

asym_sam8_reg_correction_mean vs Slug, Sign Corrected



Right In: -111.885 ± 76.212 χ^2/NDF : 18.5/15

Left Out: -375.088 ± 72.056 χ^2/NDF : 34.1/16

Right Out: -4.893 ± 63.933 χ^2/NDF : 11.6/18

Left In: -11.486 ± 77.782 χ^2/NDF : 15.0/14

Left: -207.160 ± 52.860 χ^2/NDF : 60.8/31

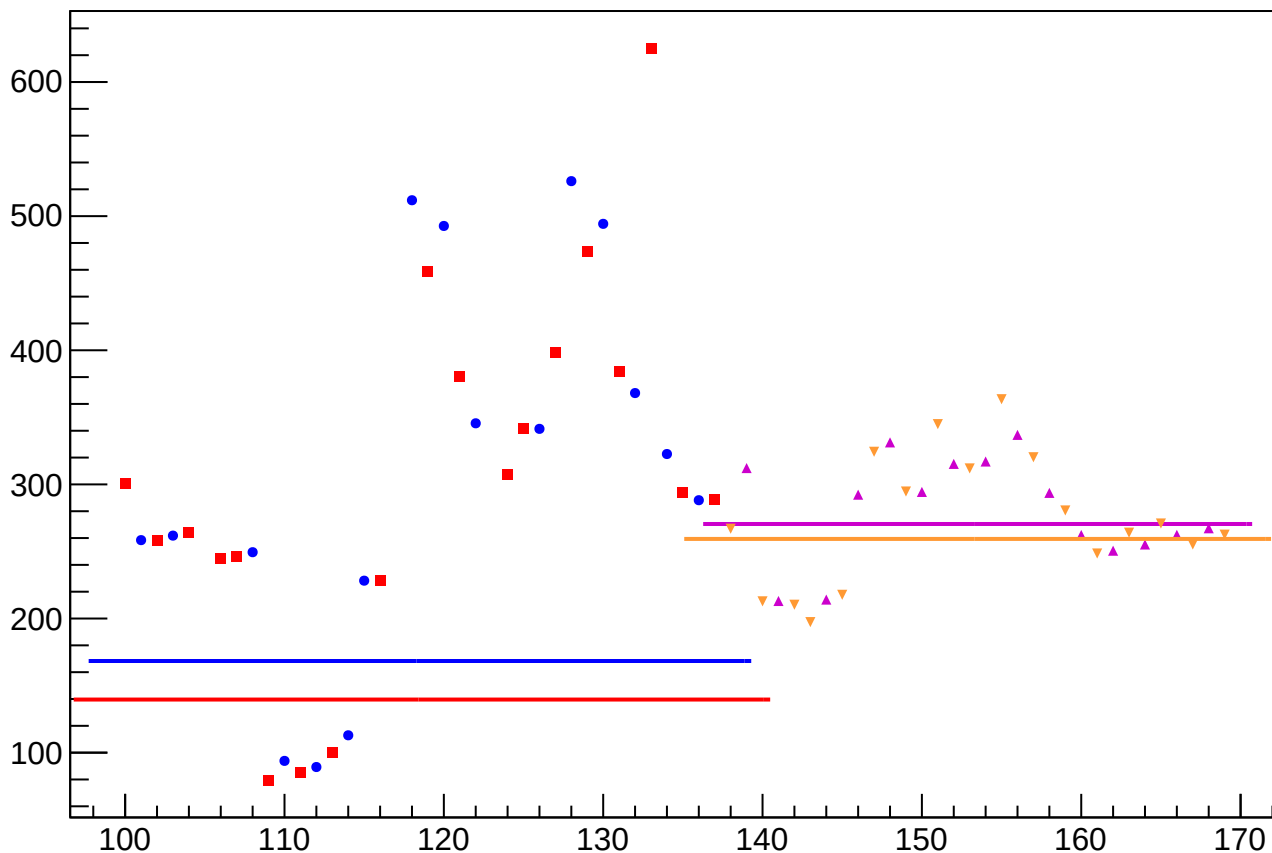
Right: -49.085 ± 48.981 χ^2/NDF : 31.3/34

In: -62.708 ± 54.437 χ^2/NDF : 34.3/30

Out: -167.954 ± 47.823 χ^2/NDF : 60.5/35

All: -122.110 ± 35.928 χ^2/NDF : 96.9/66

asym_sam8_reg_correction_rms vs Slug, Sign Corrected



Right In: 168.330+/-0.054 χ^2/NDF : 4544046.8/15

Left Out: 259.351+/-0.051 χ^2/NDF : 798614.5/16

Right Out: 139.594+/-0.045 χ^2/NDF : 5154153.5/18

Left In: 270.481+/-0.055 χ^2/NDF : 524276.3/14

Left: 264.491+/-0.037 χ^2/NDF : 1344928.9/31

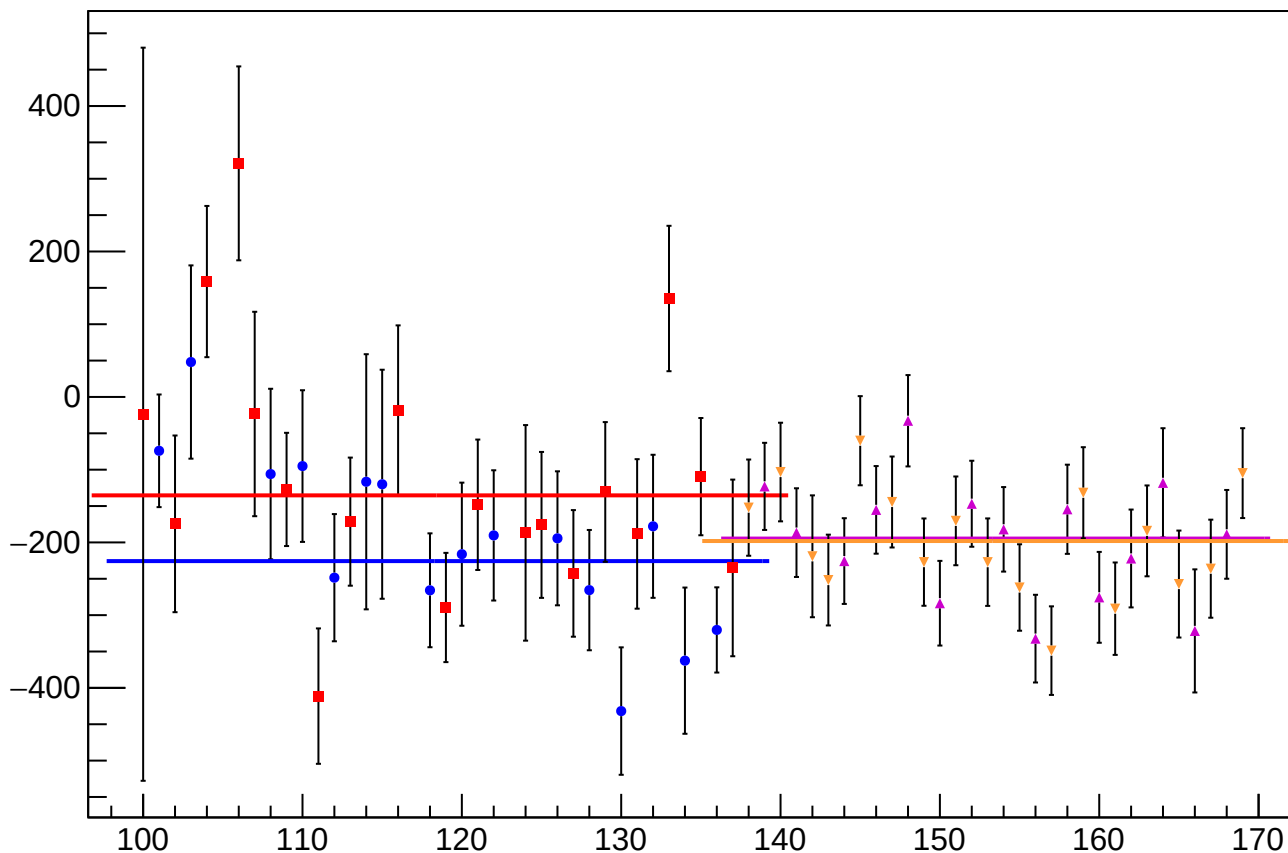
Right: 151.463+/-0.035 χ^2/NDF : 9865092.4/34

In: 218.364+/-0.038 χ^2/NDF : 6828236.2/30

Out: 192.343+/-0.034 χ^2/NDF : 9043825.4/35

All: 203.678+/-0.025 χ^2/NDF : 16129980.6/60

cor_asym_sam8_mean vs Slug, Sign Corrected



Right In: -225.692 ± 23.118 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -198.088 ± 15.488 $\chi^2/\text{NDF}: 23.6/16$

Right Out: -135.311 ± 23.205 $\chi^2/\text{NDF}: 44.9/18$

Left In: -194.717 ± 16.125 $\chi^2/\text{NDF}: 22.6/14$

Left: -196.471 ± 11.170 $\chi^2/\text{NDF}: 46.2/31$

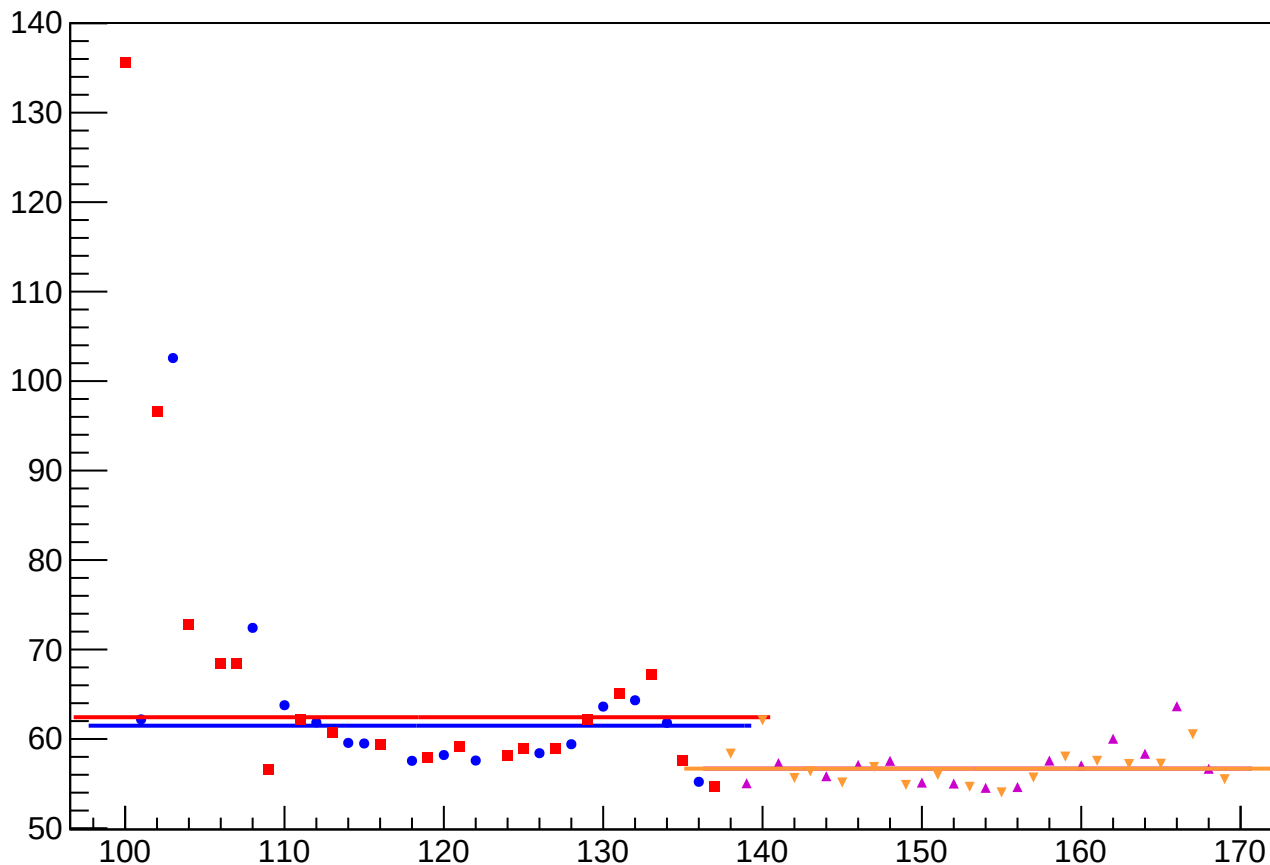
Right: -180.670 ± 16.378 $\chi^2/\text{NDF}: 75.1/34$

In: -204.854 ± 13.225 $\chi^2/\text{NDF}: 46.4/30$

Out: -178.740 ± 12.882 $\chi^2/\text{NDF}: 73.5/35$

All: -191.454 ± 9.228 $\chi^2/\text{NDF}: 122.0/66$

cor_asym_sam8_rms vs Slug, Sign Corrected



Right In: 61.486 $\pm$ 0.016 χ^2 /NDF: 250671.7/15

Left Out: 56.688 $\pm$ 0.011 χ^2 /NDF: 33318.9/16

Right Out: 62.433 $\pm$ 0.016 χ^2 /NDF: 279408.8/18

Left In: 56.691 $\pm$ 0.011 χ^2 /NDF: 30666.4/14

Left: 56.689 $\pm$ 0.008 χ^2 /NDF: 63985.3/31

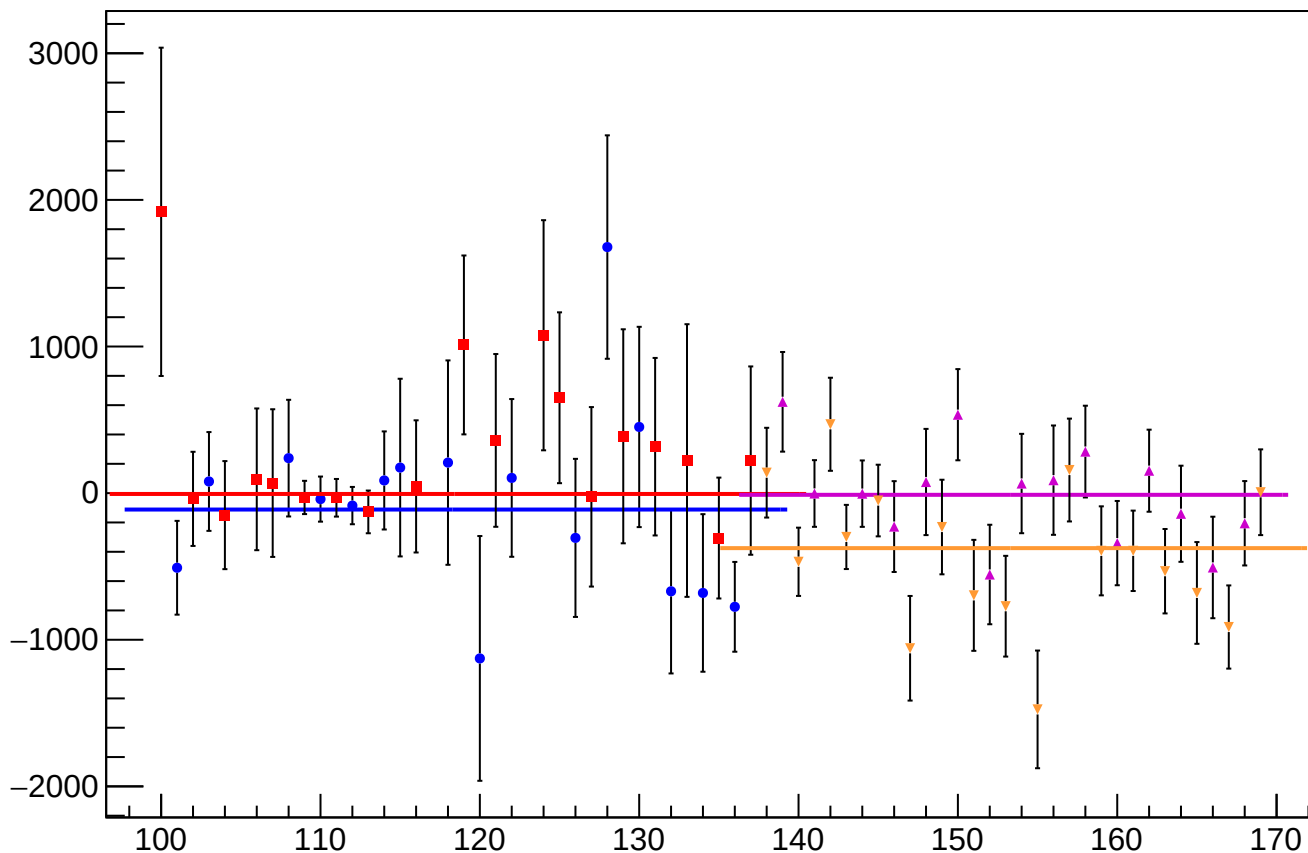
Right: 61.958 $\pm$ 0.012 χ^2 /NDF: 531751.4/34

In: 58.260 $\pm$ 0.009 χ^2 /NDF: 339227.1/30

Out: 58.458 $\pm$ 0.009 χ^2 /NDF: 397535.1/35

All: 58.362 $\pm$ 0.007 χ^2 /NDF: 736993.0/66

asym_sam8_cor_correction_mean vs Slug, Sign Corrected



Right In: -111.866+/-76.213 χ^2/NDF : 18.5/15

Left Out: -375.084+/-72.056 χ^2/NDF : 34.1/16

Right Out: -5.616+/-64.085 χ^2/NDF : 11.6/18

Left In: -11.491+/-77.782 χ^2/NDF : 15.0/14

Left: -207.161+/-52.860 χ^2/NDF : 60.8/31

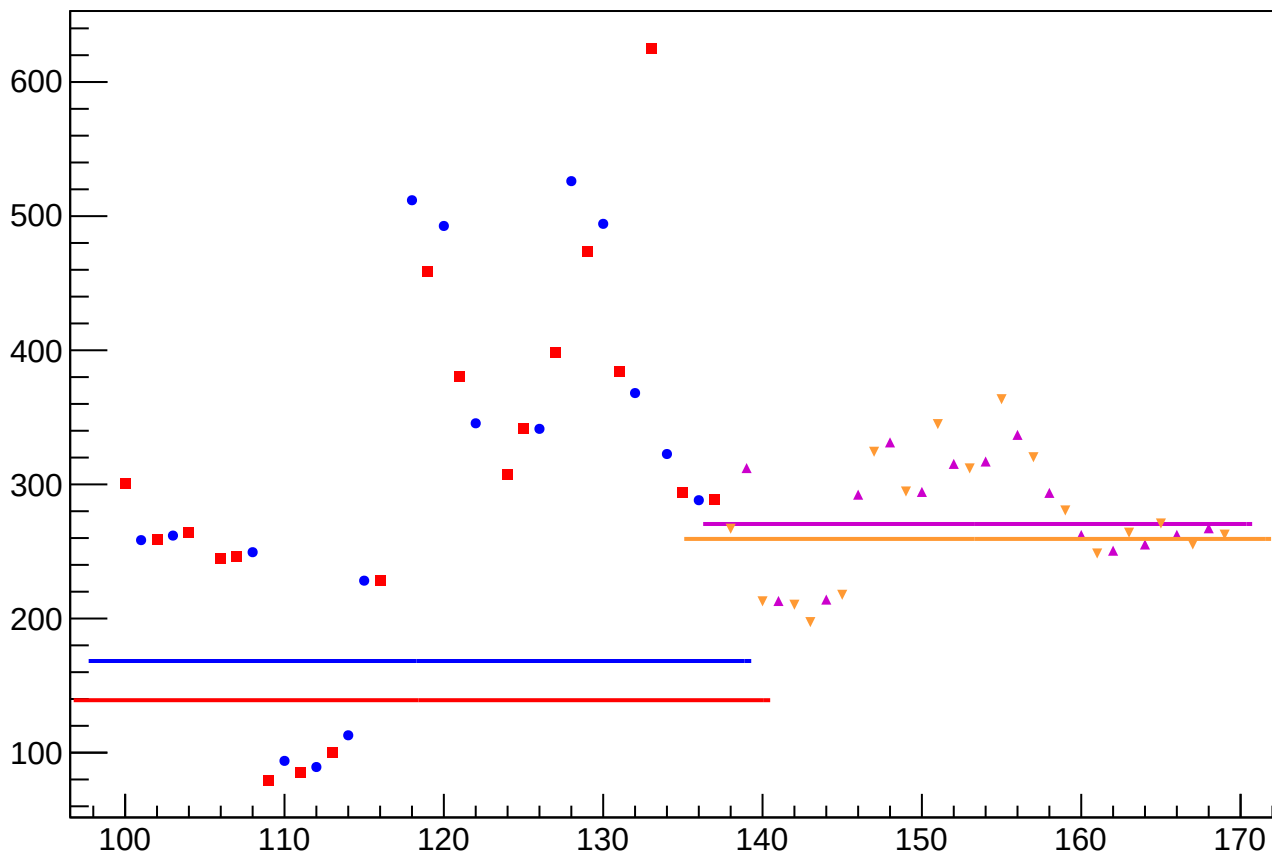
Right: -49.624+/-49.049 χ^2/NDF : 31.2/34

In: -62.701+/-54.437 χ^2/NDF : 34.3/30

Out: -168.790+/-47.886 χ^2/NDF : 60.4/35

All: -122.510+/-35.955 χ^2/NDF : 96.8/66

asym_sam8_cor_correction_rms vs Slug, Sign Corrected



Right In: 168.330+/-0.054 χ^2/NDF : 4544100.8/15

Left Out: 259.350+/-0.051 χ^2/NDF : 798619.1/16

Right Out: 139.105+/-0.045 χ^2/NDF : 5130011.5/18

Left In: 270.481+/-0.055 χ^2/NDF : 524275.1/14

Left: 264.491+/-0.037 χ^2/NDF : 1344932.9/31

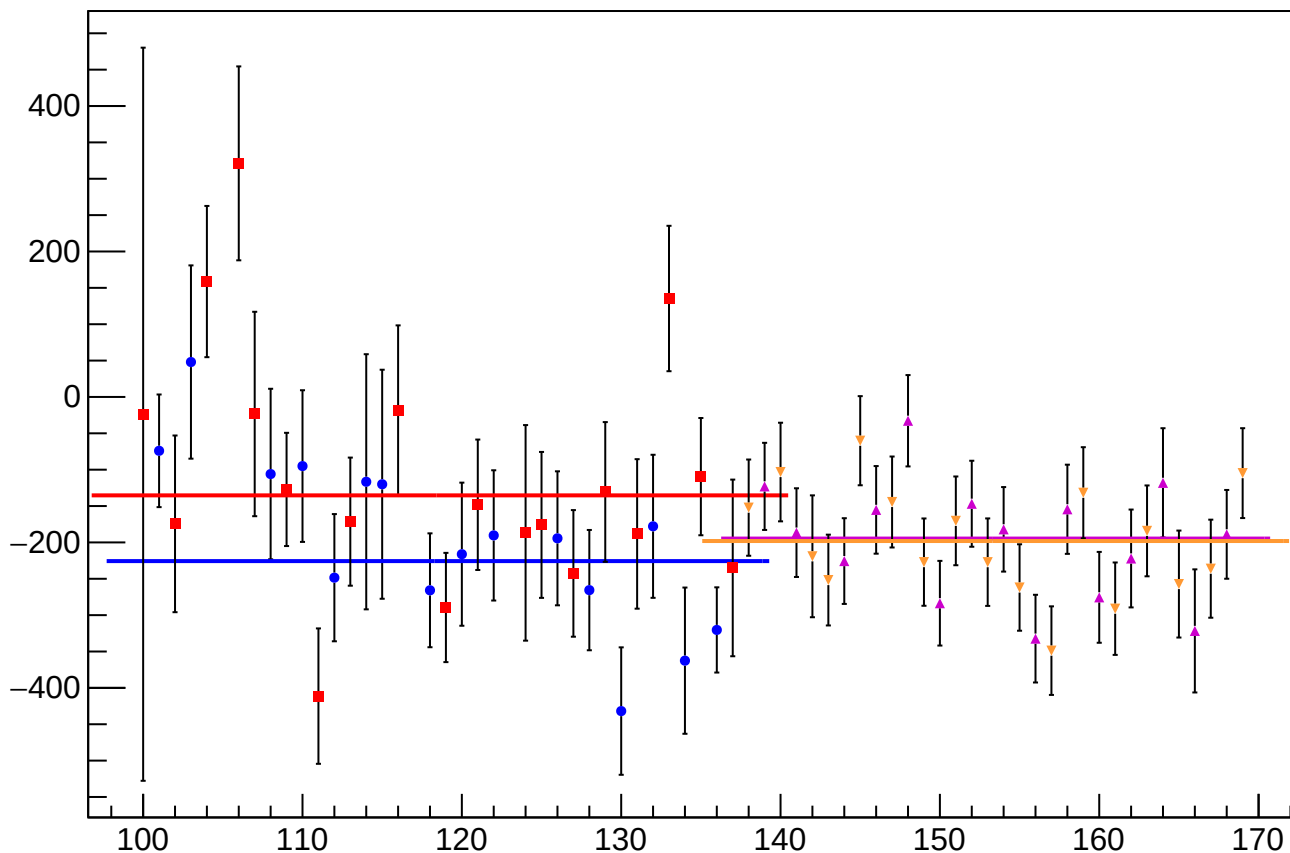
Right: 151.210+/-0.035 χ^2/NDF : 9846393.6/34

In: 218.364+/-0.038 χ^2/NDF : 6828269.6/30

Out: 192.211+/-0.034 χ^2/NDF : 9038437.3/35

All: 203.620+/-0.025 χ^2/NDF : 16126967.0/60

eigen_cor_asym_sam8_mean vs Slug, Sign Corrected



Right In: -225.692 ± 23.118 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -198.088 ± 15.488 $\chi^2/\text{NDF}: 23.6/16$

Right Out: -135.311 ± 23.205 $\chi^2/\text{NDF}: 44.9/18$

Left In: -194.717 ± 16.125 $\chi^2/\text{NDF}: 22.6/14$

Left: -196.471 ± 11.170 $\chi^2/\text{NDF}: 46.2/31$

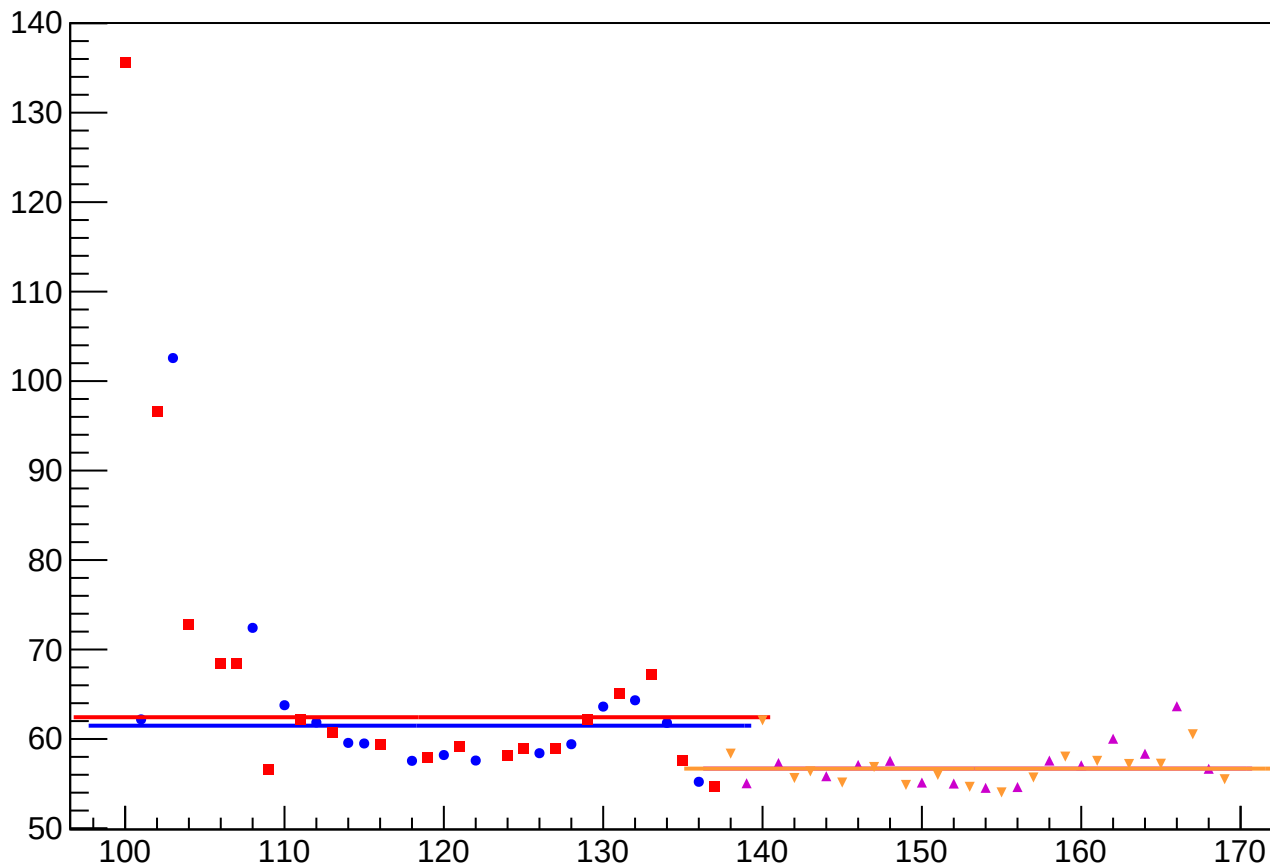
Right: -180.670 ± 16.378 $\chi^2/\text{NDF}: 75.1/34$

In: -204.854 ± 13.225 $\chi^2/\text{NDF}: 46.4/30$

Out: -178.740 ± 12.882 $\chi^2/\text{NDF}: 73.5/35$

All: -191.454 ± 9.228 $\chi^2/\text{NDF}: 122.0/66$

eigen_cor_asym_sam8_rms vs Slug, Sign Corrected



Right In: 61.486 $\pm$ 0.016 χ^2 /NDF: 250671.7/15

Left Out: 56.688 $\pm$ 0.011 χ^2 /NDF: 33318.9/16

Right Out: 62.433 $\pm$ 0.016 χ^2 /NDF: 279408.8/18

Left In: 56.691 $\pm$ 0.011 χ^2 /NDF: 30666.4/14

Left: 56.689 $\pm$ 0.008 χ^2 /NDF: 63985.3/31

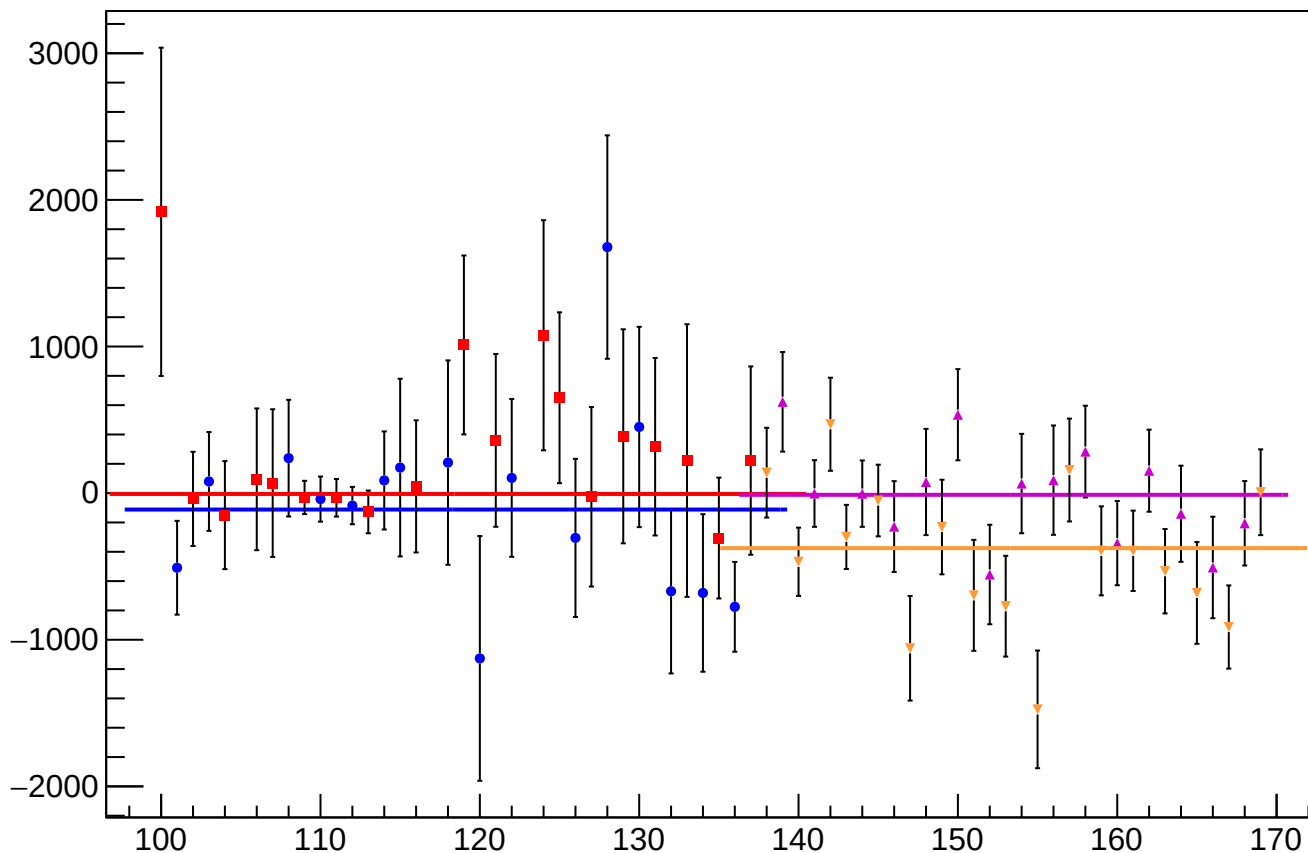
Right: 61.958 $\pm$ 0.012 χ^2 /NDF: 531751.4/34

In: 58.260 $\pm$ 0.009 χ^2 /NDF: 339227.1/30

Out: 58.458 $\pm$ 0.009 χ^2 /NDF: 397535.1/35

All: 58.362 $\pm$ 0.007 χ^2 /NDF: 736993.0/66

asym_sam8_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -111.866+/-76.213 χ^2/NDF : 18.5/15

Left Out: -375.084+/-72.056 χ^2/NDF : 34.1/16

Right Out: -5.616+/-64.085 χ^2/NDF : 11.6/18

Left In: -11.491+/-77.782 χ^2/NDF : 15.0/14

Left: -207.161+/-52.860 χ^2/NDF : 60.8/31

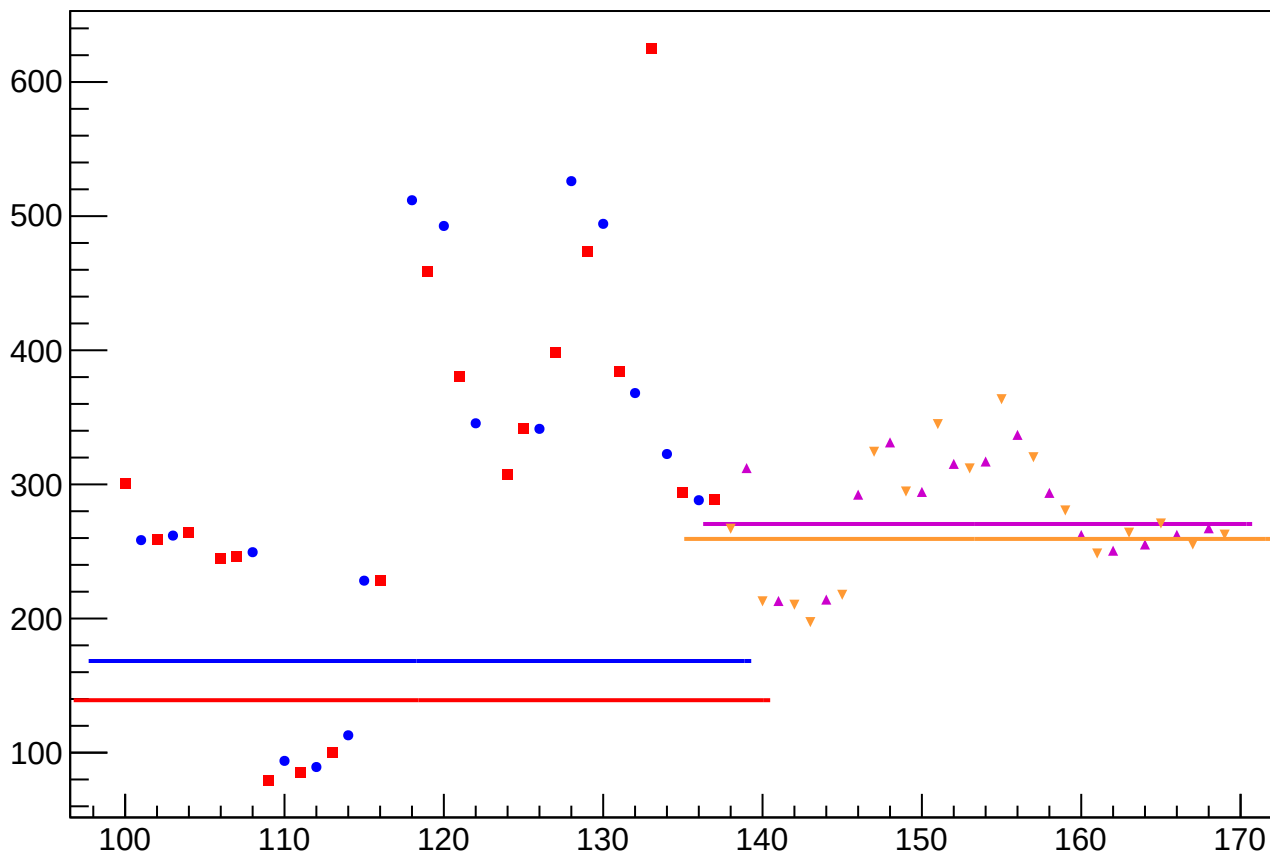
Right: -49.624+/-49.049 χ^2/NDF : 31.2/34

In: -62.701+/-54.437 χ^2/NDF : 34.3/30

Out: -168.790+/-47.886 χ^2/NDF : 60.4/35

All: -122.510+/-35.955 χ^2/NDF : 96.8/66

asym_sam8_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 168.330+/-0.054 χ^2/NDF : 4544100.8/15

Left Out: 259.350+/-0.051 χ^2/NDF : 798619.1/16

Right Out: 139.105+/-0.045 χ^2/NDF : 5130011.5/18

Left In: 270.481+/-0.055 χ^2/NDF : 524275.1/14

Left: 264.491+/-0.037 χ^2/NDF : 1344932.9/31

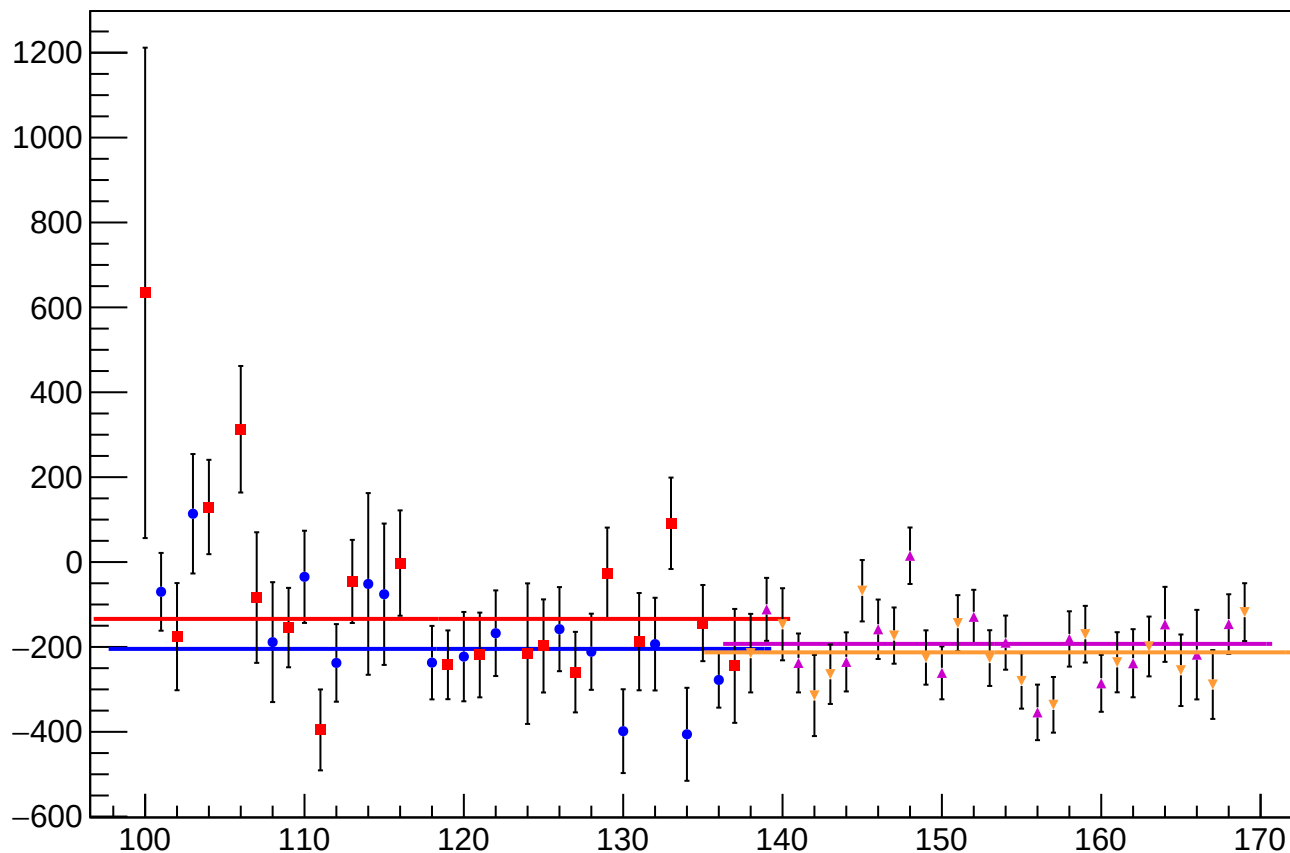
Right: 151.210+/-0.035 χ^2/NDF : 9846393.6/34

In: 218.364+/-0.038 χ^2/NDF : 6828269.6/30

Out: 192.211+/-0.034 χ^2/NDF : 9038437.3/35

All: 203.620+/-0.025 χ^2/NDF : 16126967.0/60

dit_asym_sam8_mean vs Slug, Sign Corrected



Right In: -204.577 ± 25.523 χ^2/NDF : 20.0/15

Left Out: -212.717 ± 17.422 χ^2/NDF : 16.1/16

Right Out: -133.924 ± 25.484 χ^2/NDF : 37.2/18

Left In: -192.781 ± 18.126 χ^2/NDF : 23.3/14

Left: -203.143 ± 12.561 χ^2/NDF : 40.0/31

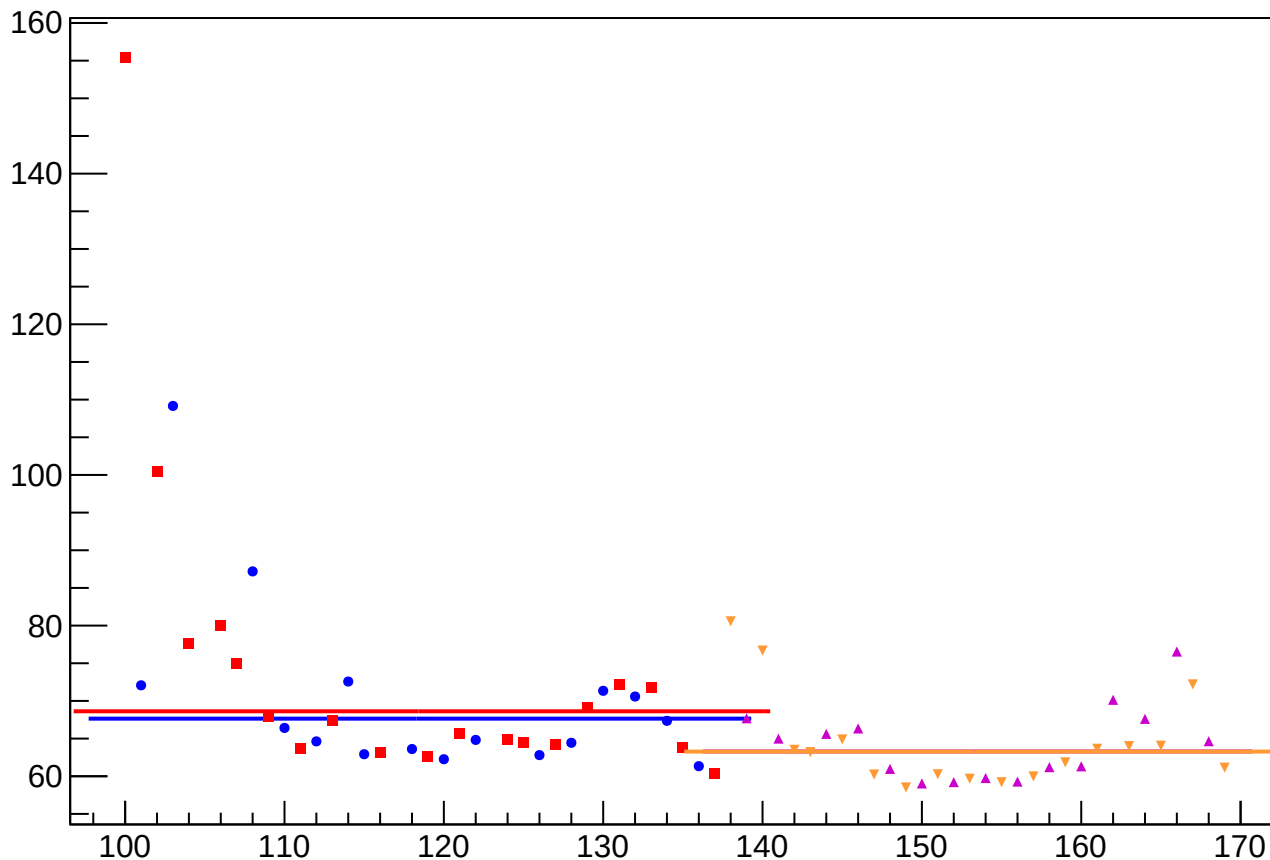
Right: -169.195 ± 18.034 χ^2/NDF : 61.1/34

In: -196.736 ± 14.779 χ^2/NDF : 43.4/30

Out: -187.620 ± 14.382 χ^2/NDF : 59.8/35

All: -192.054 ± 10.307 χ^2/NDF : 103.5/66

dit_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.647 $\pm$ 0.018 χ^2 /NDF: 263669.9/15

Left Out: 63.274 $\pm$ 0.012 χ^2 /NDF:186579.4/16

Right Out: 68.624 $\pm$ 0.018 χ^2 /NDF: 248164.6/18

Left In: 63.290 $\pm$ 0.013 χ^2 /NDF:103364.0/14

Left: 63.282 $\pm$ 0.009 χ^2 /NDF: 289944.2/31

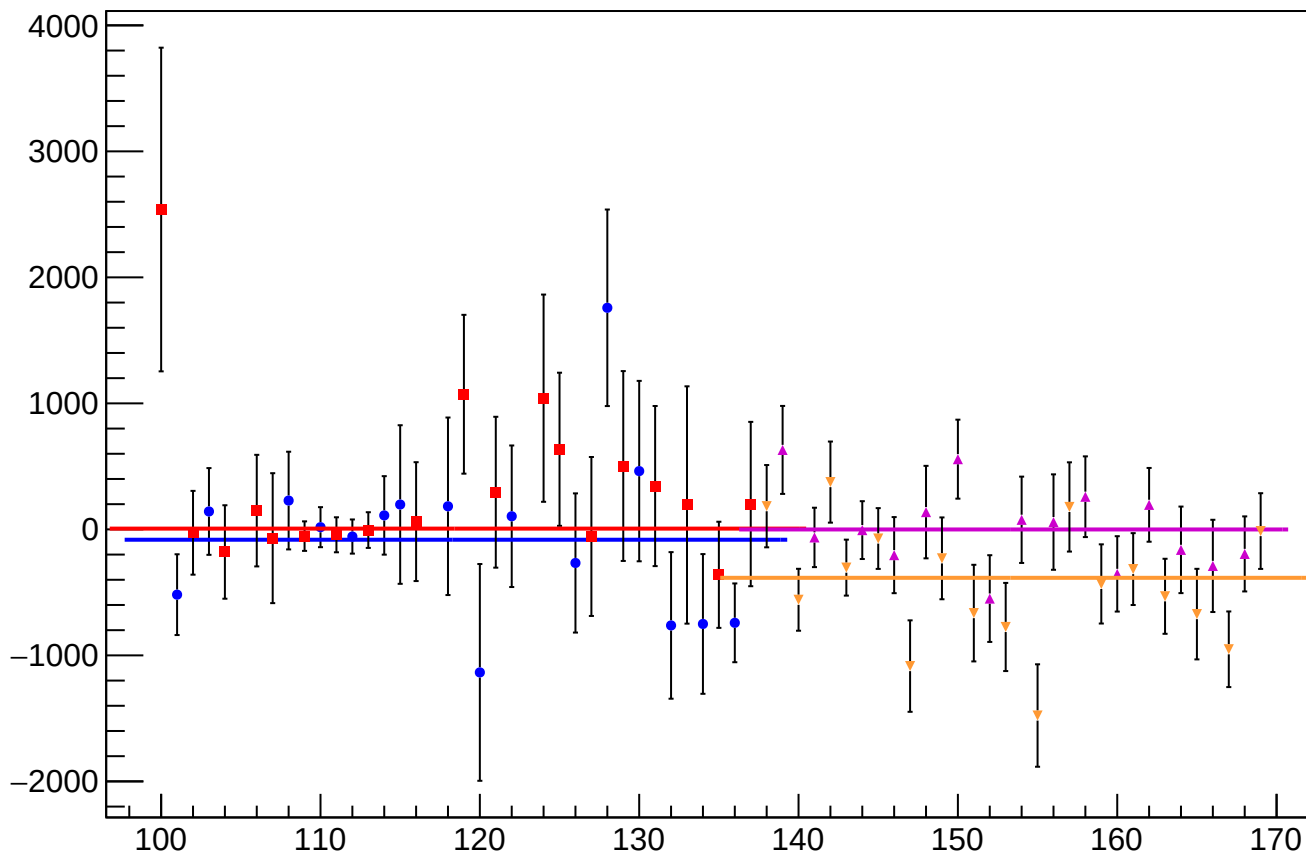
Right: 68.136 $\pm$ 0.013 χ^2 /NDF: 513300.5/34

In: 64.751 $\pm$ 0.010 χ^2 /NDF:405775.7/30

Out: 64.978 $\pm$ 0.010 χ^2 /NDF:494803.7/35

All: 64.868 $\pm$ 0.007 χ^2 /NDF: 900822.2/66

asym_sam8_dit_correction_mean vs Slug, Sign Corrected



Right In: -82.228 ± 78.676 $\chi^2/\text{NDF}: 19.2/15$

Left Out: -384.458 ± 73.969 $\chi^2/\text{NDF}: 32.5/16$

Right Out: 6.063 ± 65.910 $\chi^2/\text{NDF}: 12.0/18$

Left In: -0.716 ± 79.676 $\chi^2/\text{NDF}: 13.5/14$

Left: -206.821 ± 54.209 $\chi^2/\text{NDF}: 58.4/31$

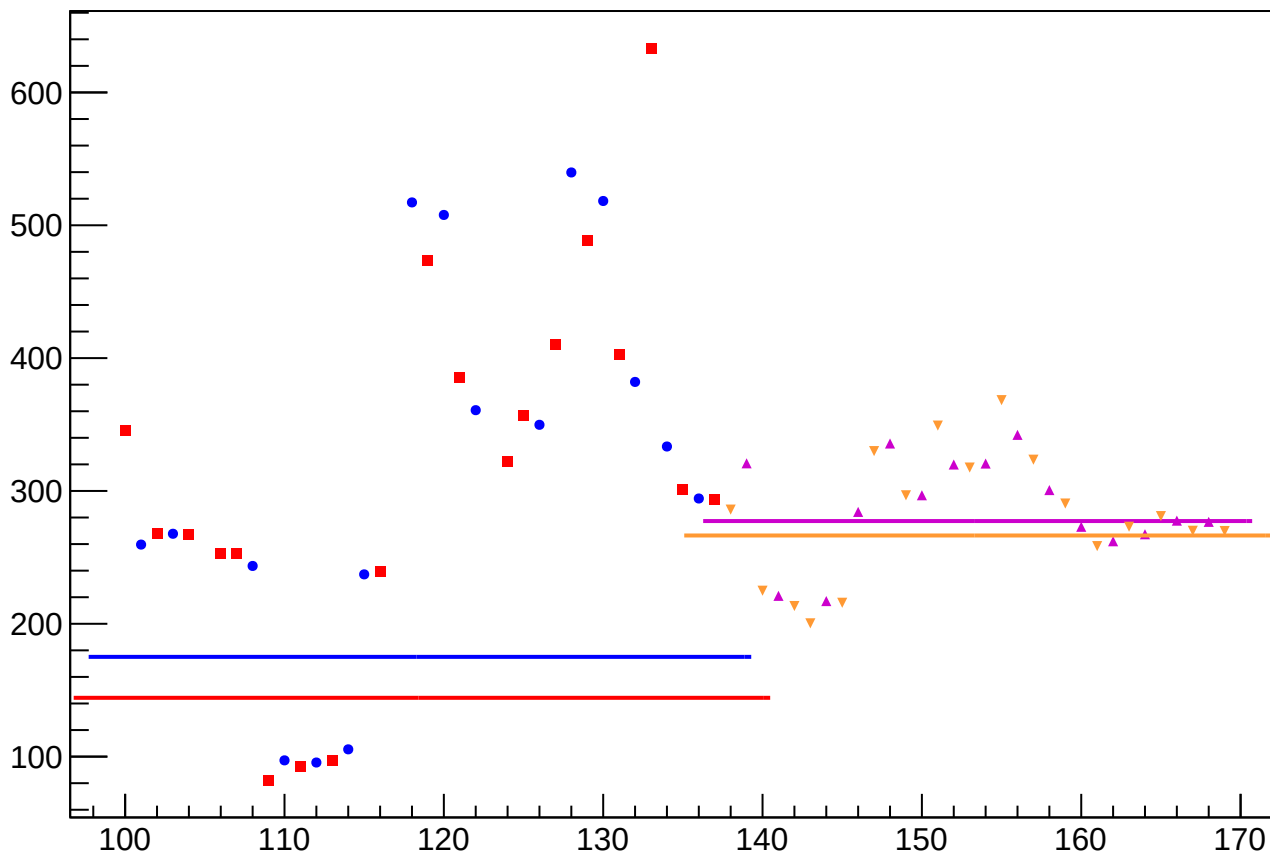
Right: -30.347 ± 50.524 $\chi^2/\text{NDF}: 32.0/34$

In: -41.986 ± 55.982 $\chi^2/\text{NDF}: 33.2/30$

Out: -166.774 ± 49.209 $\chi^2/\text{NDF}: 60.0/35$

All: -112.383 ± 36.960 $\chi^2/\text{NDF}: 96.1/66$

asym_sam8_dit_correction_rms vs Slug, Sign Corrected



Right In: 175.099+/-0.056 χ^2/NDF : 4429076.5/15

Left Out: 266.473+/-0.052 χ^2/NDF : 794531.8/16

Right Out: 144.276+/-0.047 χ^2/NDF : 5132432.2/18

Left In: 277.341+/-0.056 χ^2/NDF : 481663.6/14

Left: 271.504+/-0.038 χ^2/NDF : 1296181.4/31

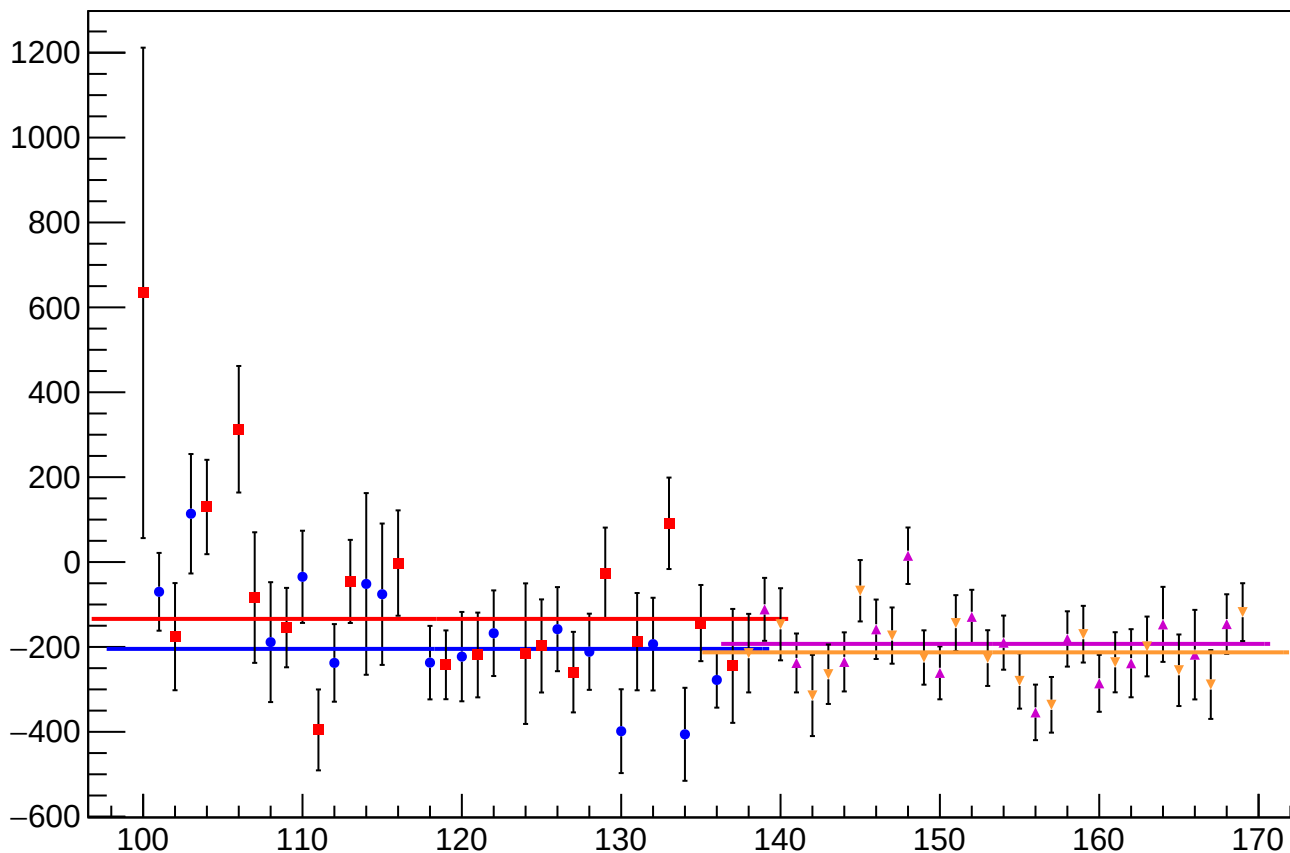
Right: 156.987+/-0.036 χ^2/NDF : 9741889.9/34

In: 225.575+/-0.040 χ^2/NDF : 6578201.8/30

Out: 198.358+/-0.035 χ^2/NDF : 8969527.4/35

All: 210.221+/-0.026 χ^2/NDF : 15814396.8/66

eigen_dit_asym_sam8_mean vs Slug, Sign Corrected



Right In: -204.577 ± 25.523 $\chi^2/\text{NDF}: 20.0/15$

Left Out: -212.716 ± 17.422 $\chi^2/\text{NDF}: 16.1/16$

Right Out: -133.926 ± 25.483 $\chi^2/\text{NDF}: 37.2/18$

Left In: -192.782 ± 18.126 $\chi^2/\text{NDF}: 23.3/14$

Left: -203.143 ± 12.561 $\chi^2/\text{NDF}: 40.0/31$

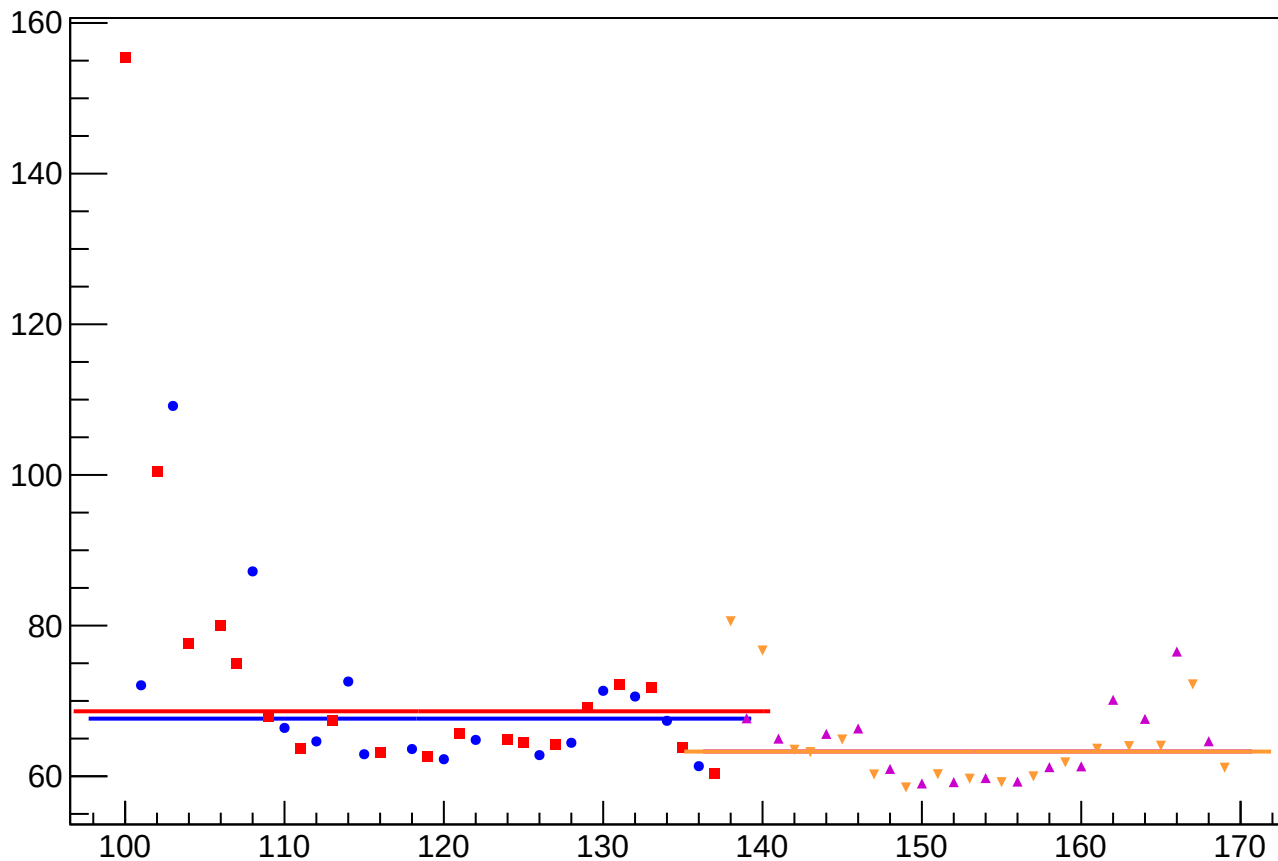
Right: -169.196 ± 18.034 $\chi^2/\text{NDF}: 61.1/34$

In: -196.736 ± 14.779 $\chi^2/\text{NDF}: 43.4/30$

Out: -187.619 ± 14.382 $\chi^2/\text{NDF}: 59.8/35$

All: -192.054 ± 10.307 $\chi^2/\text{NDF}: 103.5/66$

eigen_dit_asym_sam8_rms vs Slug, Sign Corrected



Right In: 67.647+/-0.018 χ^2/NDF : 263668.9/15

Left Out: 63.275+/-0.012 χ^2/NDF : 186578.4/16

Right Out: 68.624+/-0.018 χ^2/NDF : 248166.1/18

Left In: 63.290+/-0.013 χ^2/NDF : 103364.3/14

Left: 63.282+/-0.009 χ^2/NDF : 289943.4/31

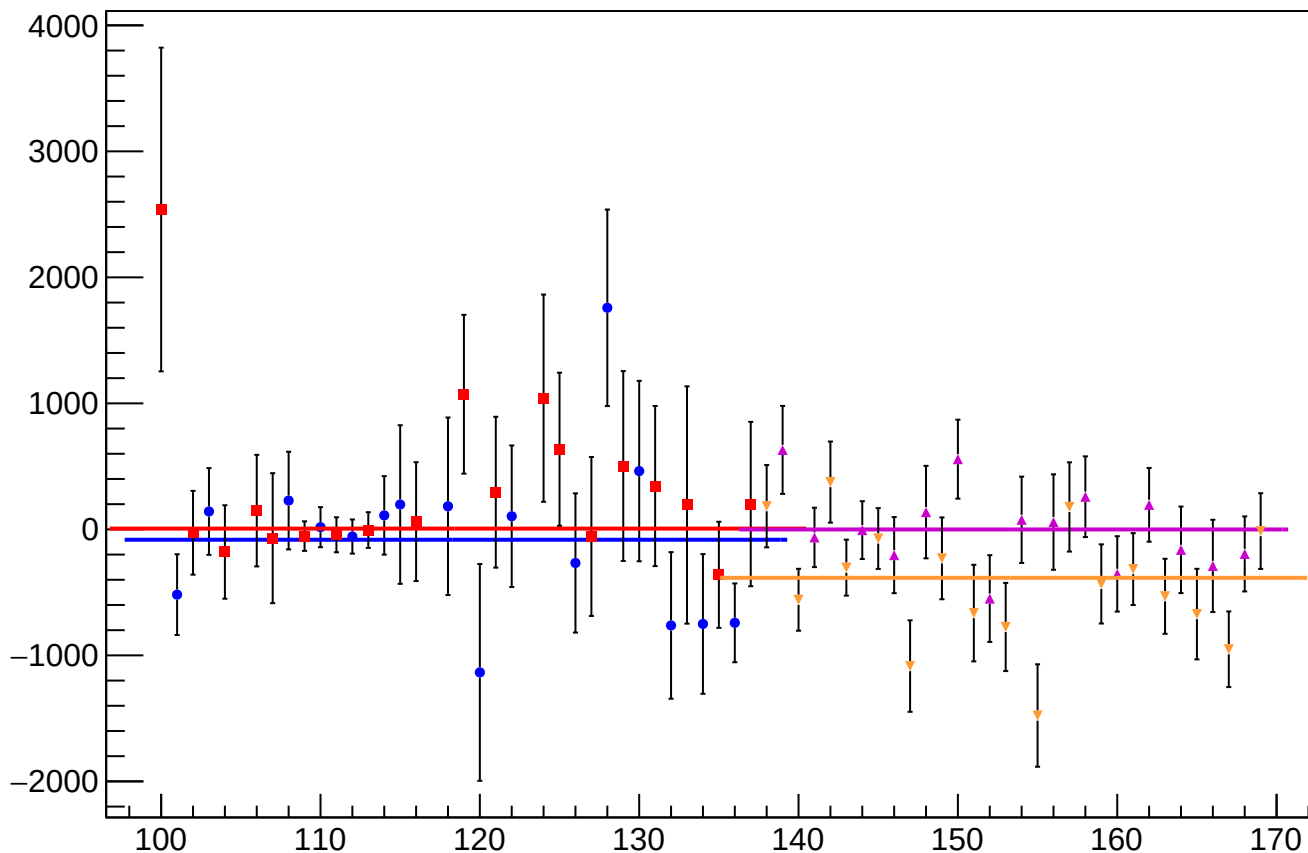
Right: 68.136+/-0.013 χ^2/NDF : 513301.0/34

In: 64.751+/-0.010 χ^2/NDF : 405771.2/30

Out: 64.978+/-0.010 χ^2/NDF : 494799.0/35

All: 64.868+/-0.007 χ^2/NDF : 900813.0/66

asym_sam8_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -82.226 ± 78.675 $\chi^2/\text{NDF}: 19.2/15$

Left Out: -384.457 ± 73.968 $\chi^2/\text{NDF}: 32.5/16$

Right Out: 6.062 ± 65.910 $\chi^2/\text{NDF}: 12.0/18$

Left In: -0.717 ± 79.675 $\chi^2/\text{NDF}: 13.5/14$

Left: -206.821 ± 54.209 $\chi^2/\text{NDF}: 58.4/31$

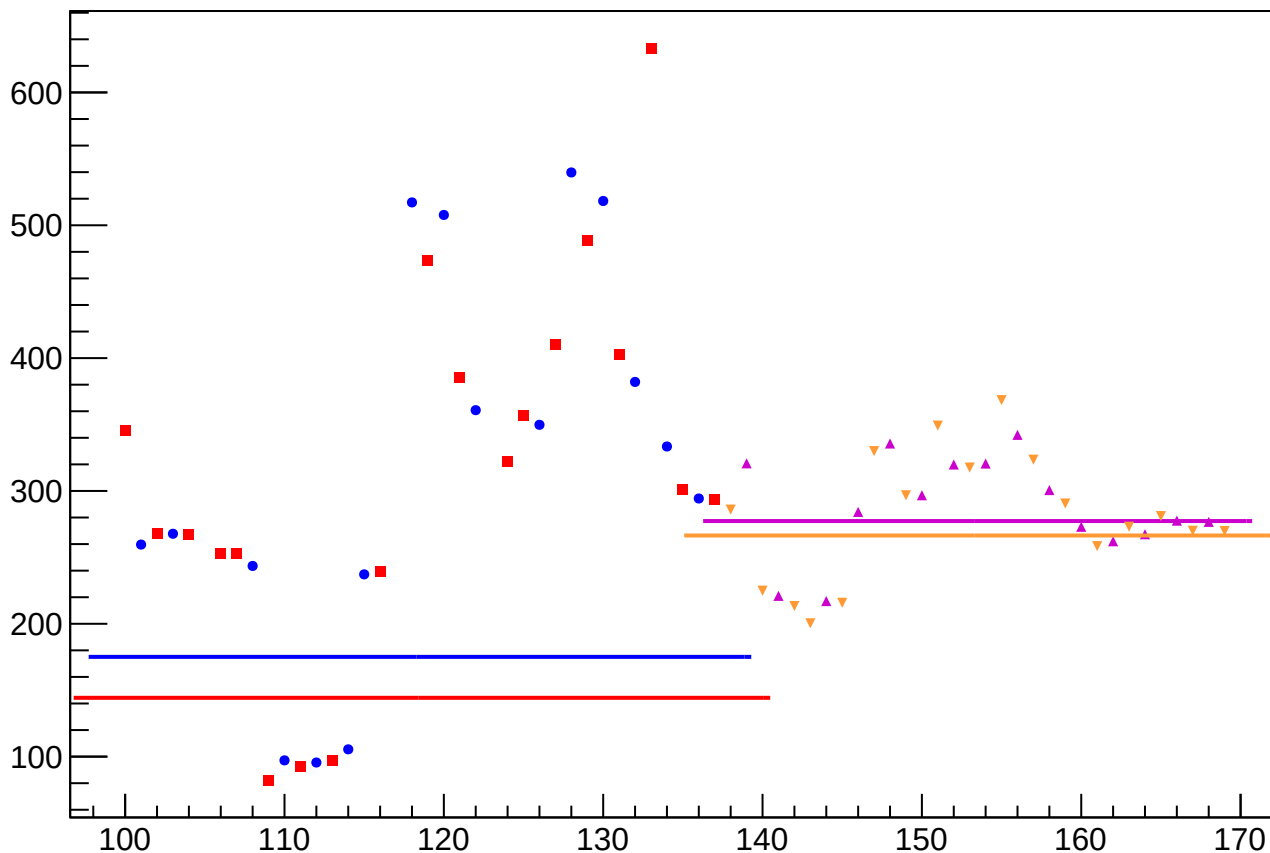
Right: -30.347 ± 50.524 $\chi^2/\text{NDF}: 32.0/34$

In: -41.986 ± 55.982 $\chi^2/\text{NDF}: 33.2/30$

Out: -166.775 ± 49.209 $\chi^2/\text{NDF}: 60.0/35$

All: -112.382 ± 36.960 $\chi^2/\text{NDF}: 96.1/66$

asym_sam8_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 175.098+/-0.056 χ^2/NDF : 4429098.4/15

Left Out: 266.472+/-0.052 χ^2/NDF : 794540.5/16

Right Out: 144.276+/-0.047 χ^2/NDF : 5132412.3/18

Left In: 277.340+/-0.056 χ^2/NDF : 481664.9/14

Left: 271.503+/-0.038 χ^2/NDF : 1296192.2/31

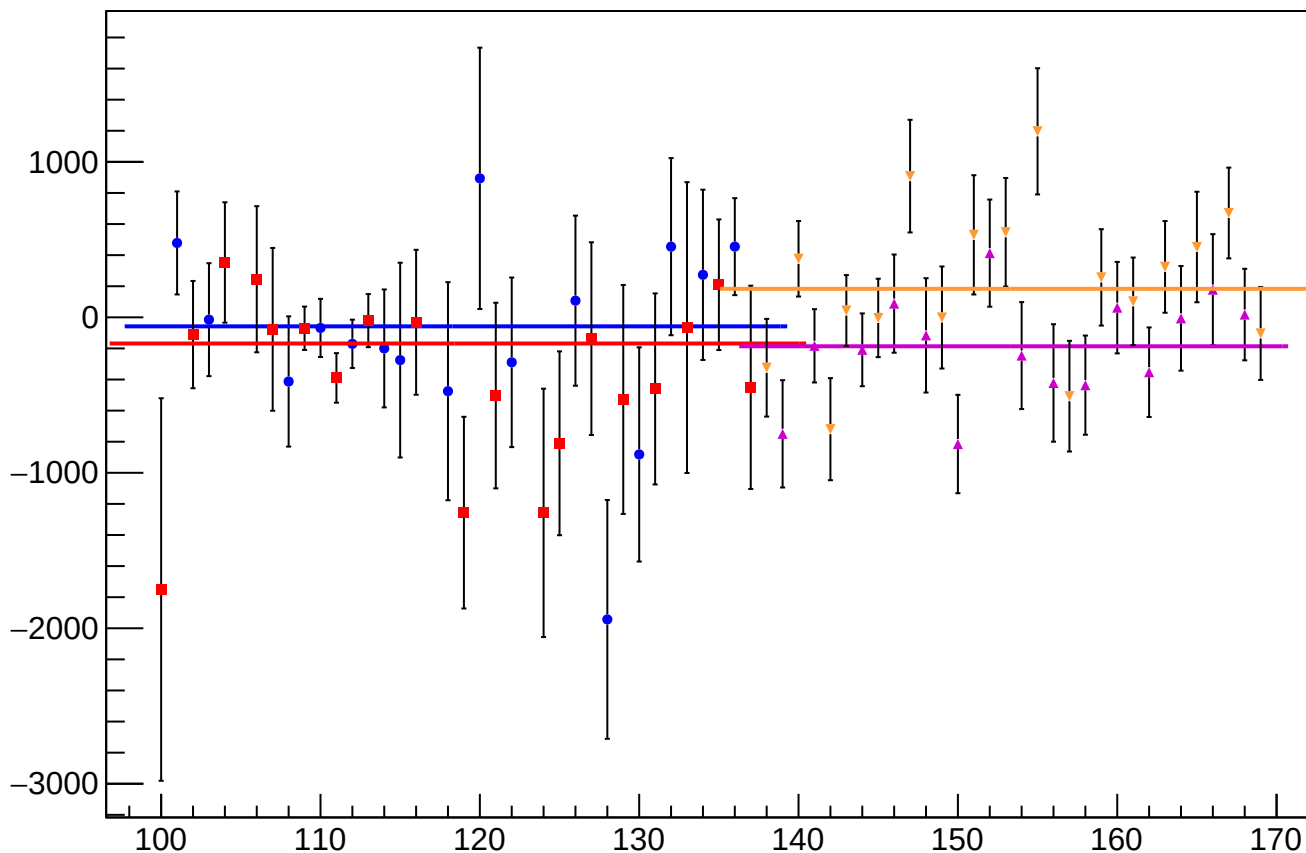
Right: 156.987+/-0.036 χ^2/NDF : 9741880.9/34

In: 225.574+/-0.040 χ^2/NDF : 6578258.3/30

Out: 198.358+/-0.035 χ^2/NDF : 8969499.3/35

All: 210.220+/-0.026 χ^2/NDF : 15814413.2/60

asym_sam8_mean vs Slug, Sign Corrected



Right In: -57.970 $\pm$ 86.890 χ^2 /NDF: 17.4/15

Left Out: 183.452 $\pm$ 73.995 χ^2 /NDF:32.6/16

Right Out: -168.322 $\pm$ 74.598 χ^2 /NDF: 15.5/18

Left In: -186.212 $\pm$ 79.659 χ^2 /NDF:14.3/14

Left: 12.228 $\pm$ 54.214 χ^2 /NDF: 58.5/31

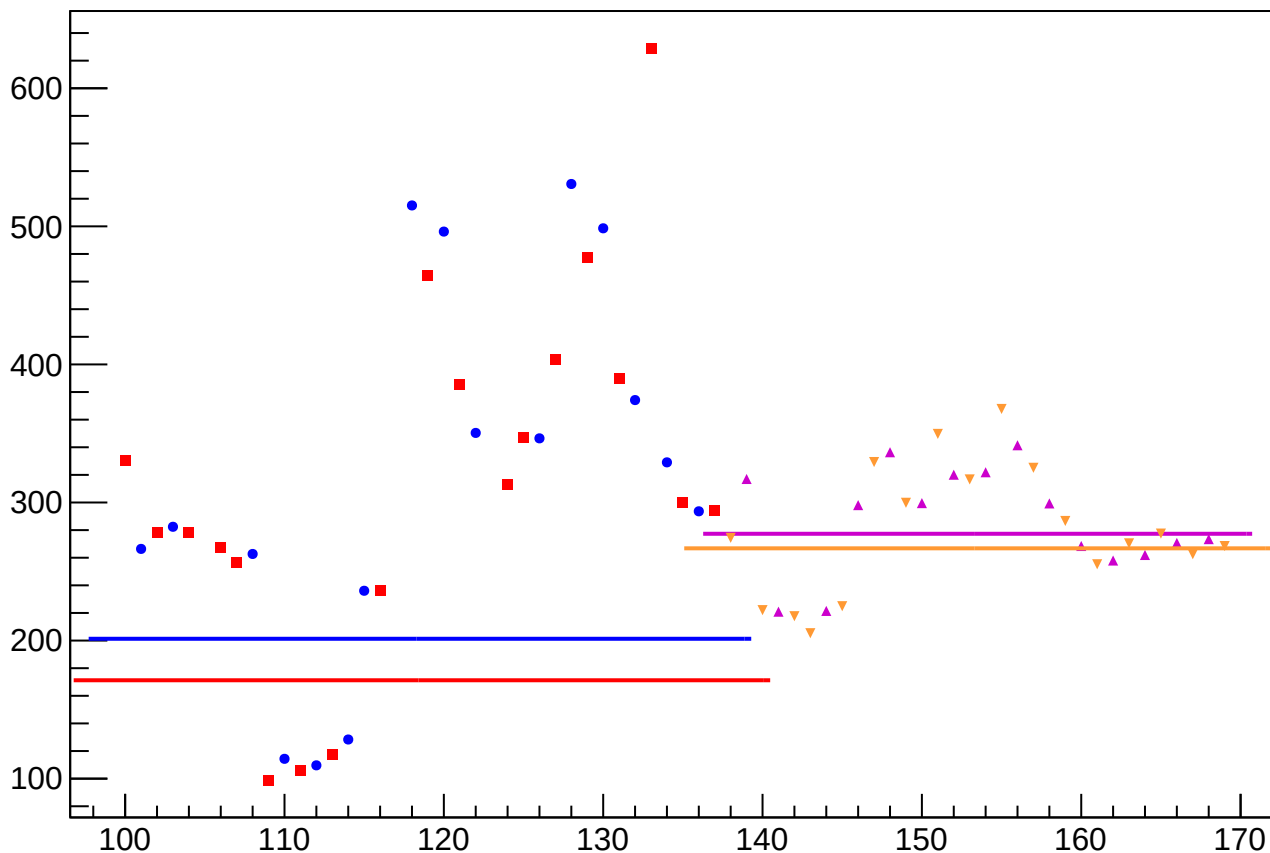
Right: -121.498 $\pm$ 56.600 χ^2 /NDF: 33.8/34

In: -127.649 $\pm$ 58.718 χ^2 /NDF:32.9/30

Out: 8.992 $\pm$ 52.534 χ^2 /NDF:59.3/35

All: -51.757 $\pm$ 39.152 χ^2 /NDF: 95.2/66

asym_sam8_rms vs Slug, Sign Corrected



Right In: 201.301 $\pm$ 0.061 χ^2 /NDF: 3572199.4/15

Left Out: 266.805 $\pm$ 0.052 χ^2 /NDF: 720656.7/16

Right Out: 171.252 $\pm$ 0.053 χ^2 /NDF: 4192554.2/18

Left In: 277.346 $\pm$ 0.056 χ^2 /NDF: 472534.6/14

Left: 271.687 $\pm$ 0.038 χ^2 /NDF: 1211992.8/31

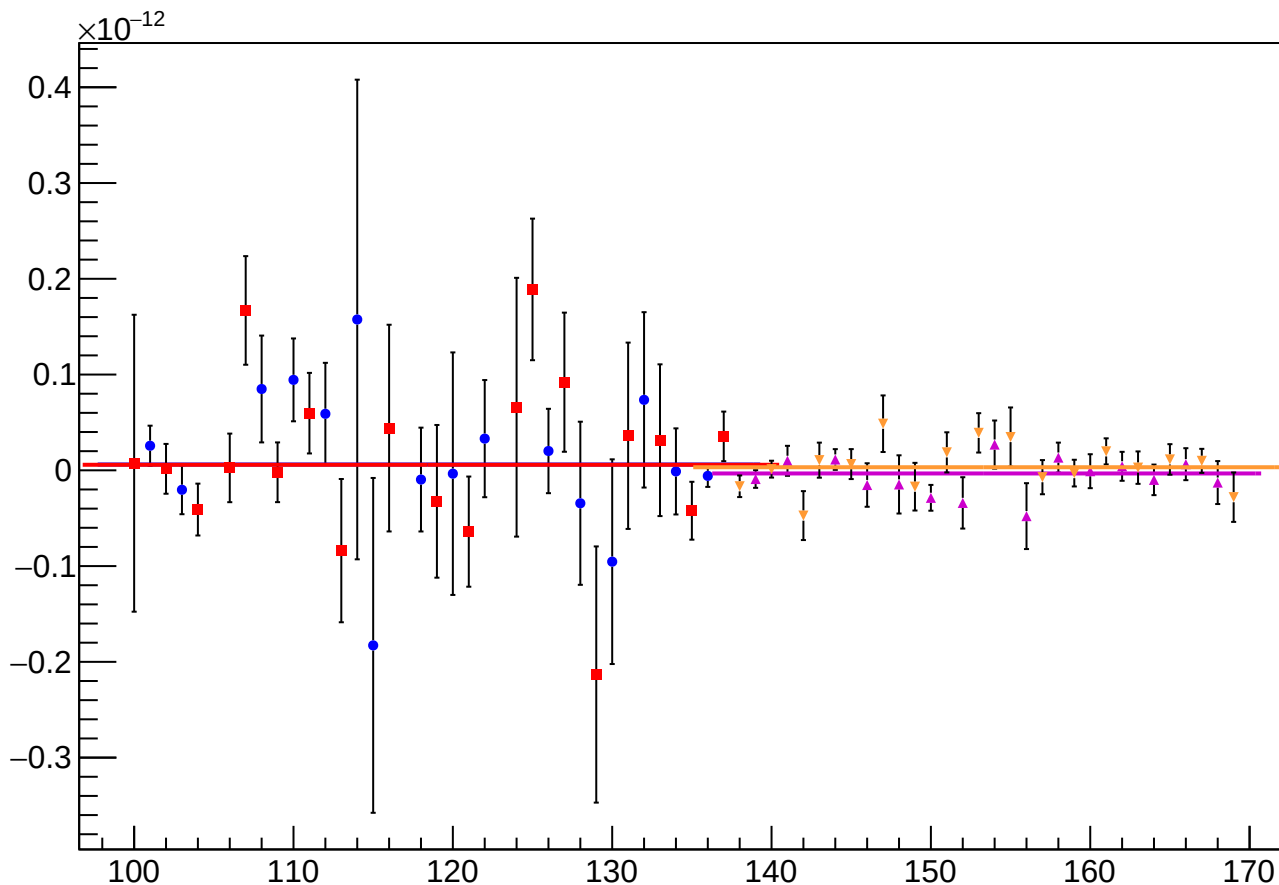
Right: 184.002 $\pm$ 0.040 χ^2 /NDF: 7902458.5/34

In: 242.619 $\pm$ 0.042 χ^2 /NDF: 4877063.0/30

Out: 219.416 $\pm$ 0.037 χ^2 /NDF: 6567249.3/35

All: 229.732 $\pm$ 0.028 χ^2 /NDF: 11617779.0/60

asym_sam8_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 13.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 19.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 30.5/18

Left In: -0.000+/-0.000 χ^2/NDF : 13.4/14

Left: 0.000+/-0.000 χ^2/NDF : 33.7/31

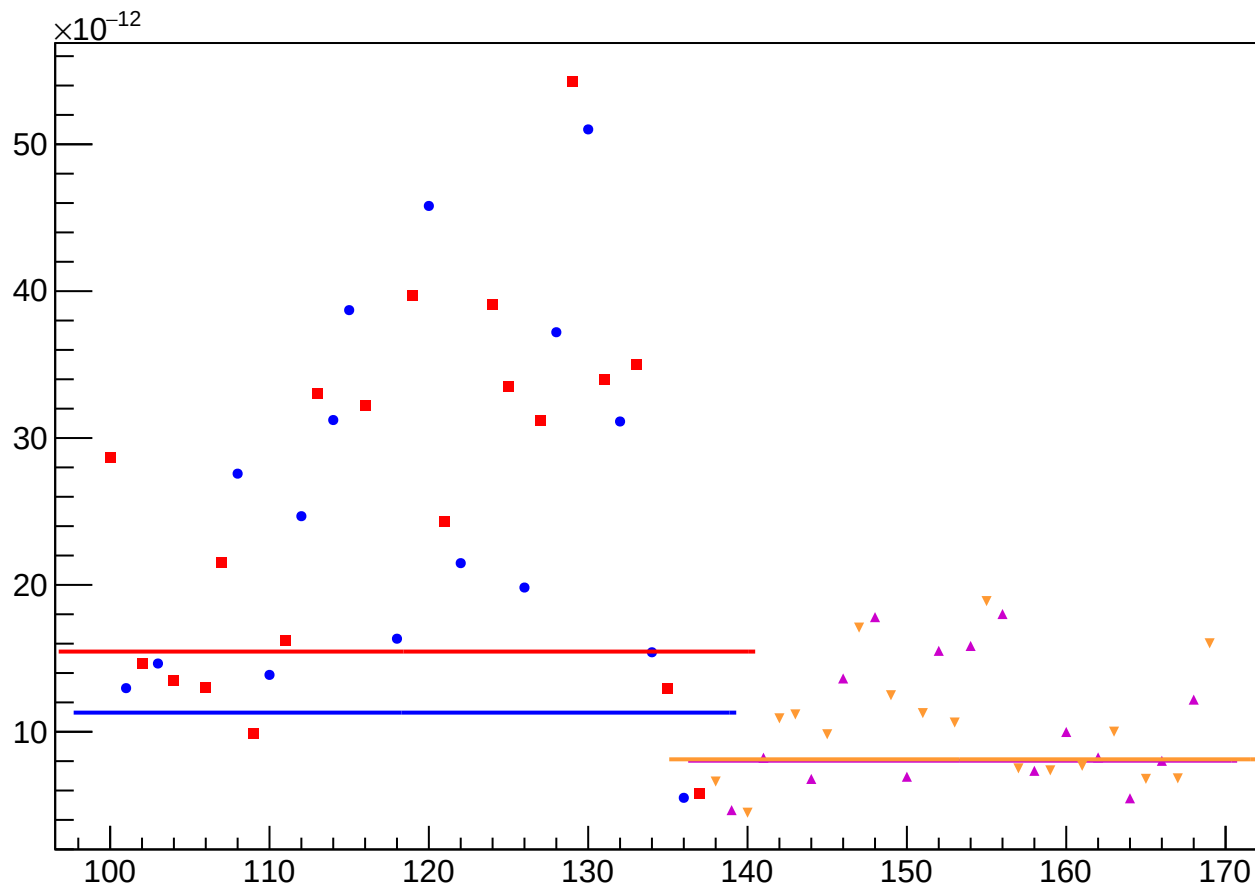
Right: 0.000+/-0.000 χ^2/NDF : 44.3/34

In: -0.000+/-0.000 χ^2/NDF : 28.2/30

Out: 0.000+/-0.000 χ^2/NDF : 49.6/35

All: 0.000+/-0.000 χ^2/NDF : 78.7/66

asym_sam8_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 1788731.6/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 1302110.0/16$

Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 1442096.6/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 1299972.0/14$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 2602623.7/31$

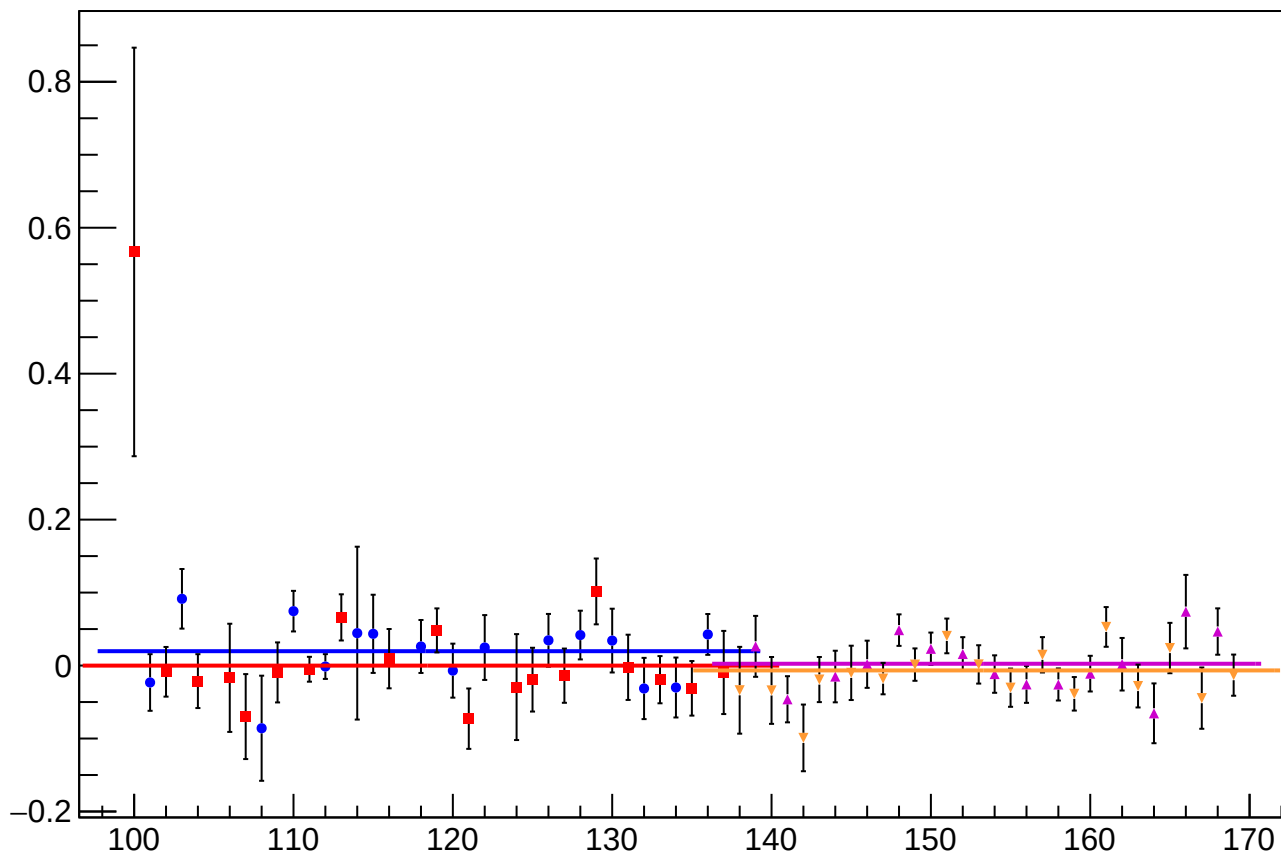
Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 3431603.8/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 3339256.5/30$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 3649845.0/35$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 6998529.1/66$

asym_sam8_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.020 ± 0.009 $\chi^2/\text{NDF}: 17.0/15$

Left Out: -0.007 ± 0.007 $\chi^2/\text{NDF}: 19.8/16$

Right Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 22.8/18$

Left In: 0.002 ± 0.007 $\chi^2/\text{NDF}: 18.9/14$

Left: -0.002 ± 0.005 $\chi^2/\text{NDF}: 39.5/31$

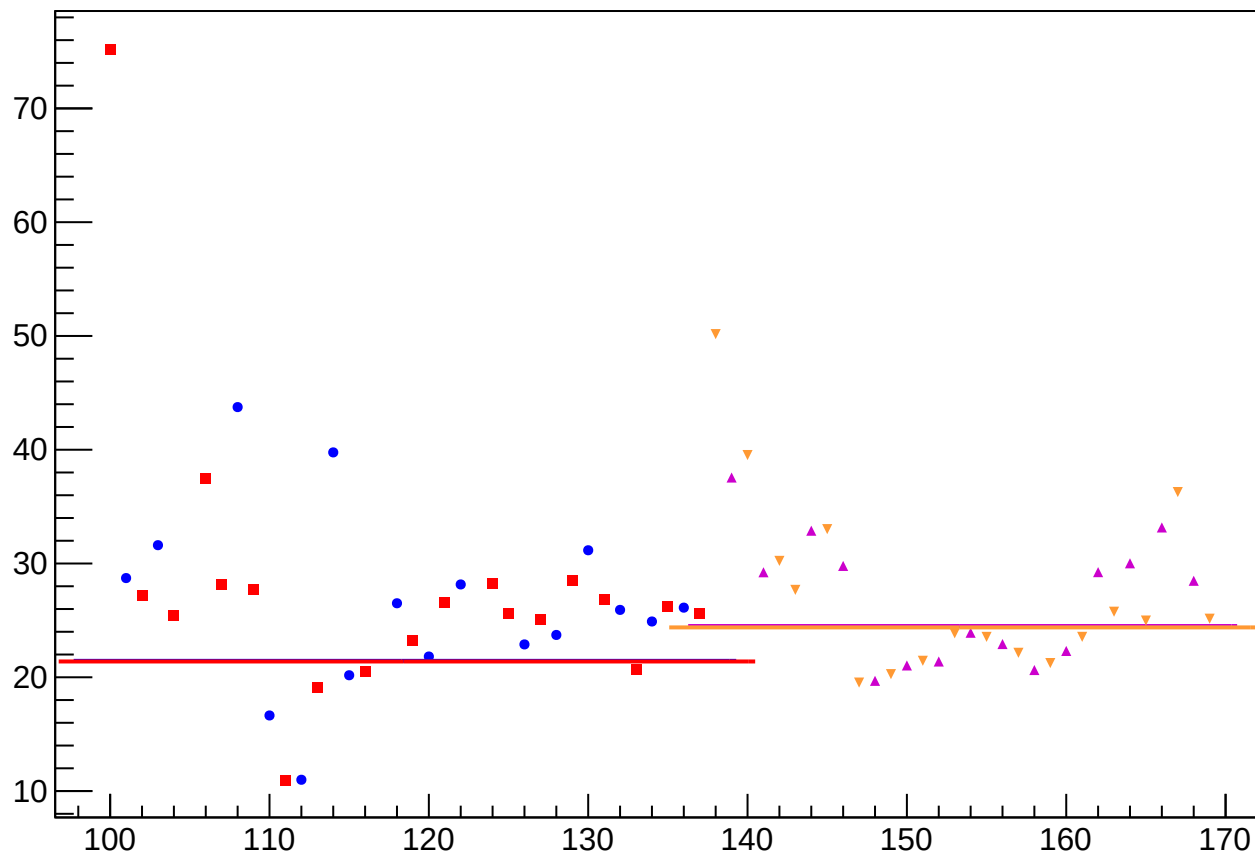
Right: 0.010 ± 0.006 $\chi^2/\text{NDF}: 42.5/34$

In: 0.010 ± 0.006 $\chi^2/\text{NDF}: 38.2/30$

Out: -0.004 ± 0.005 $\chi^2/\text{NDF}: 43.0/35$

All: 0.003 ± 0.004 $\chi^2/\text{NDF}: 84.3/66$

asym_sam8_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.444+/-0.006 χ^2/NDF : 1540713.8/15

Left Out: 24.383+/-0.005 χ^2/NDF : 1183599.3/16

Right Out: 21.389+/-0.006 χ^2/NDF : 1311934.3/18

Left In: 24.506+/-0.005 χ^2/NDF : 838651.2/14

Left: 24.442+/-0.004 χ^2/NDF : 2022546.9/31

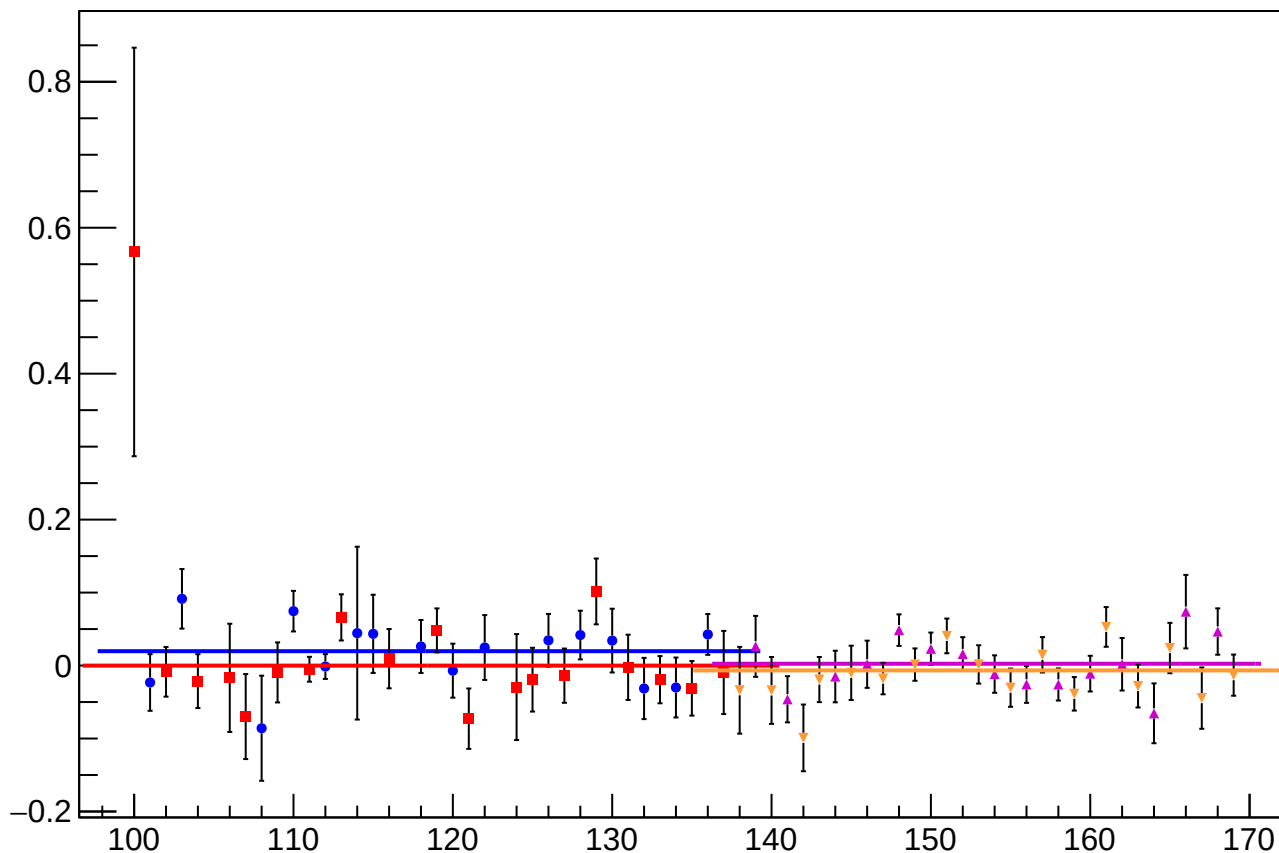
Right: 21.416+/-0.004 χ^2/NDF : 2852687.6/34

In: 23.246+/-0.004 χ^2/NDF : 2525663.9/30

Out: 23.183+/-0.004 χ^2/NDF : 2643912.5/35

All: 23.213+/-0.003 χ^2/NDF : 5169708.5/66

asym_sam8_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.020 $\pm$ 0.009 χ^2 /NDF: 17.0/15

Left Out: -0.007 $\pm$ 0.007 χ^2 /NDF:19.8/16

Right Out: -0.000 $\pm$ 0.009 χ^2 /NDF: 22.8/18

Left In: 0.002 $\pm$ 0.007 χ^2 /NDF:18.9/14

Left: -0.002 $\pm$ 0.005 χ^2 /NDF: 39.5/31

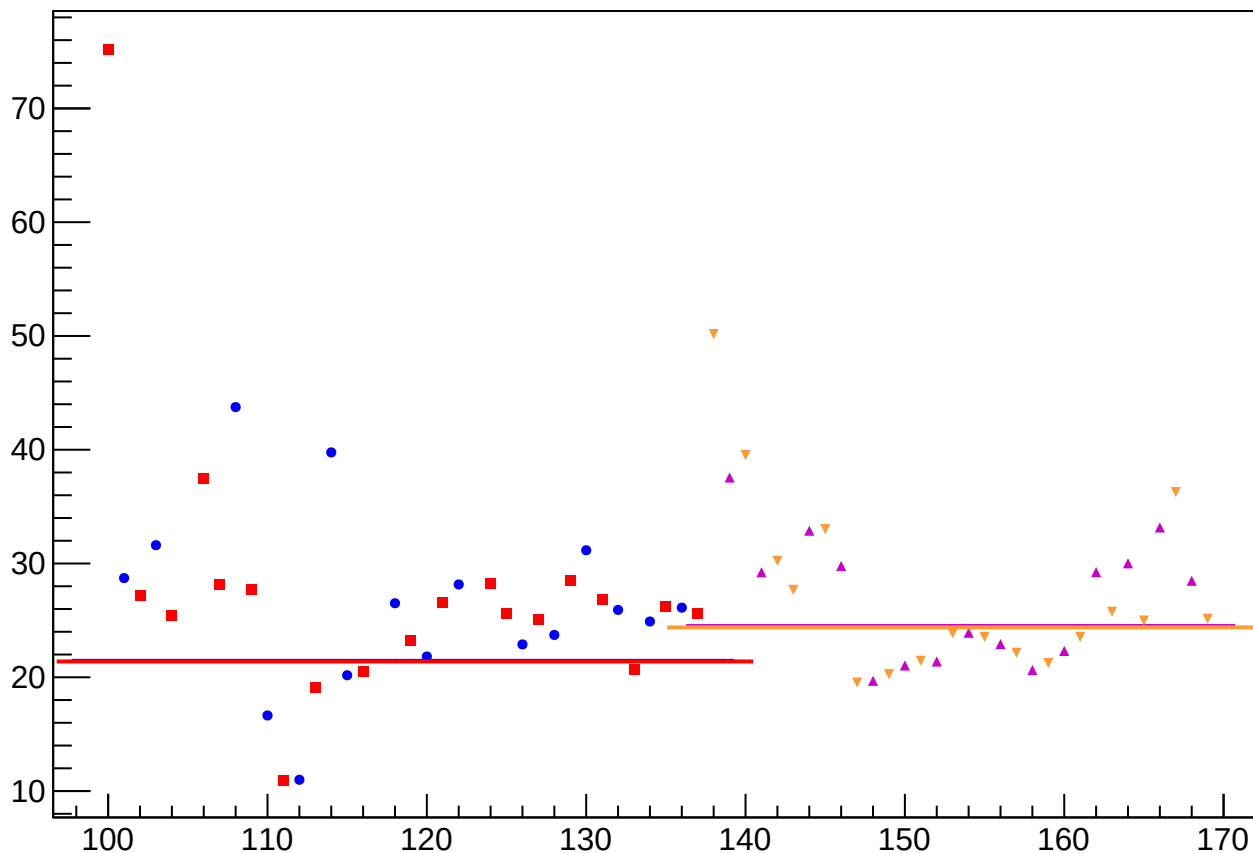
Right: 0.010 $\pm$ 0.006 χ^2 /NDF: 42.5/34

In: 0.010 $\pm$ 0.006 χ^2 /NDF:38.2/30

Out: -0.004 $\pm$ 0.005 χ^2 /NDF:43.0/35

All: 0.003 $\pm$ 0.004 χ^2 /NDF: 84.3/66

asym_sam8_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.444 $\pm$ 0.006 χ^2 /NDF: 1540713.8/15

Left Out: 24.383 $\pm$ 0.005 χ^2 /NDF: 1183599.3/16

Right Out: 21.389 $\pm$ 0.006 χ^2 /NDF: 1311934.3/18

Left In: 24.506 $\pm$ 0.005 χ^2 /NDF: 838651.2/14

Left: 24.442 $\pm$ 0.004 χ^2 /NDF: 2022546.9/31

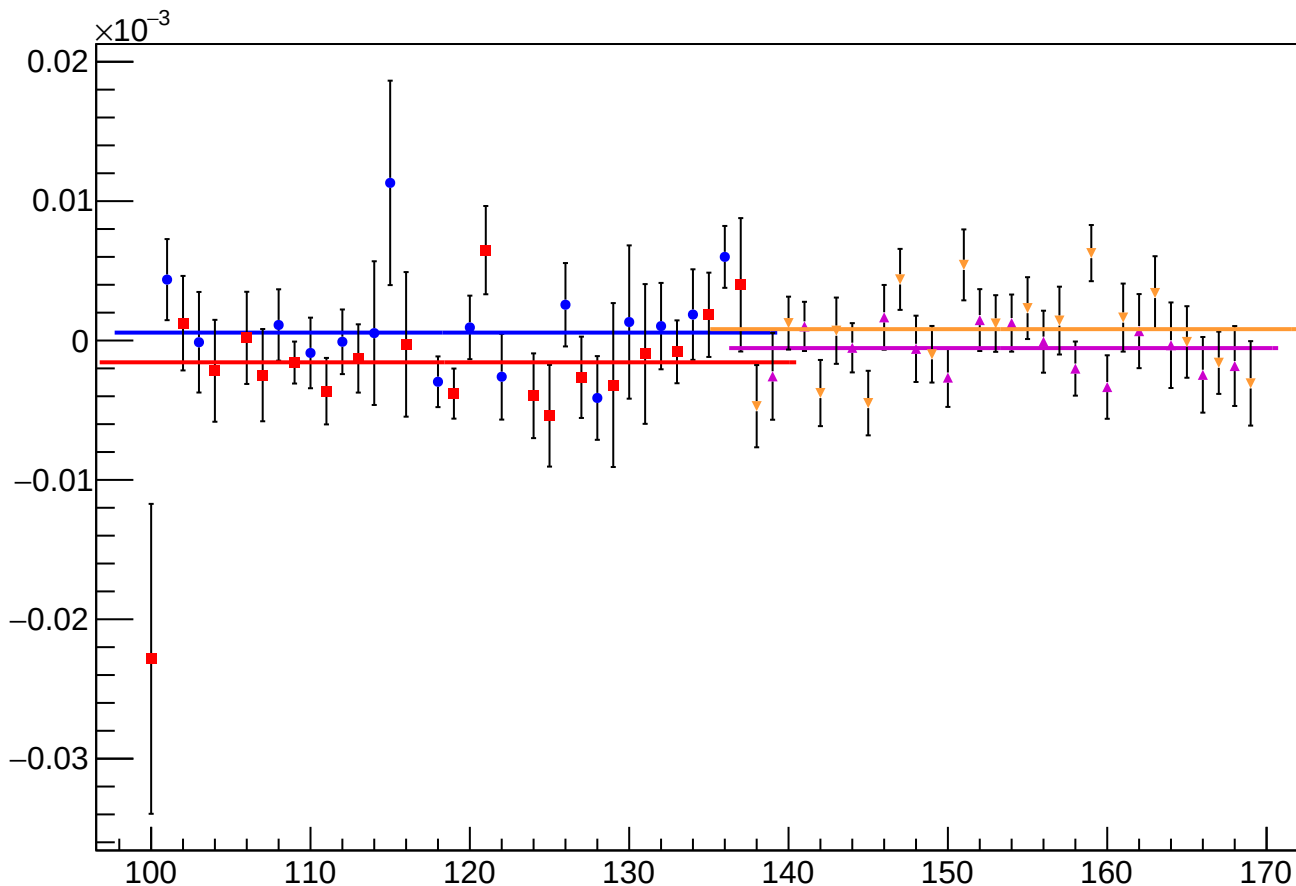
Right: 21.416 $\pm$ 0.004 χ^2 /NDF: 2852687.6/34

In: 23.246 $\pm$ 0.004 χ^2 /NDF: 2525663.9/30

Out: 23.183 $\pm$ 0.004 χ^2 /NDF: 2643912.5/35

All: 23.213 $\pm$ 0.003 χ^2 /NDF: 5169708.5/66

asym_sam8_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :31.2/16

Right Out: -0.000+/-0.000 χ^2/NDF : 18.3/18

Left In: -0.000+/-0.000 χ^2/NDF :7.7/14

Left: 0.000+/-0.000 χ^2/NDF : 41.7/31

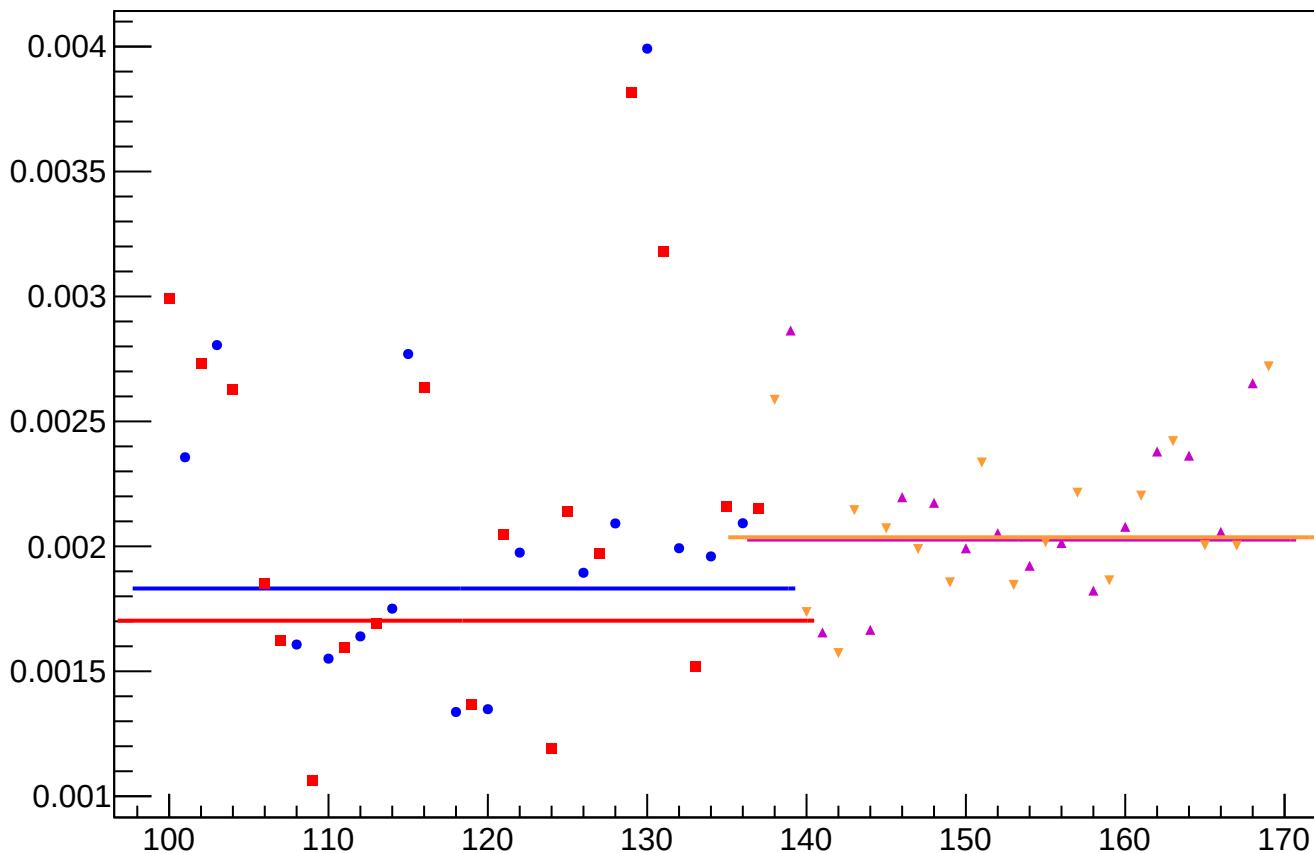
Right: -0.000+/-0.000 χ^2/NDF : 41.4/34

In: -0.000+/-0.000 χ^2/NDF :27.5/30

Out: -0.000+/-0.000 χ^2/NDF :57.0/35

All: -0.000+/-0.000 χ^2/NDF : 84.5/66

asym_sam8_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 900406.1/15

Left Out: 0.002+/-0.000 χ^2/NDF : 442101.2/16

Right Out: 0.002+/-0.000 χ^2/NDF : 1478057.9/18

Left In: 0.002+/-0.000 χ^2/NDF : 518782.6/14

Left: 0.002+/-0.000 χ^2/NDF : 961132.8/31

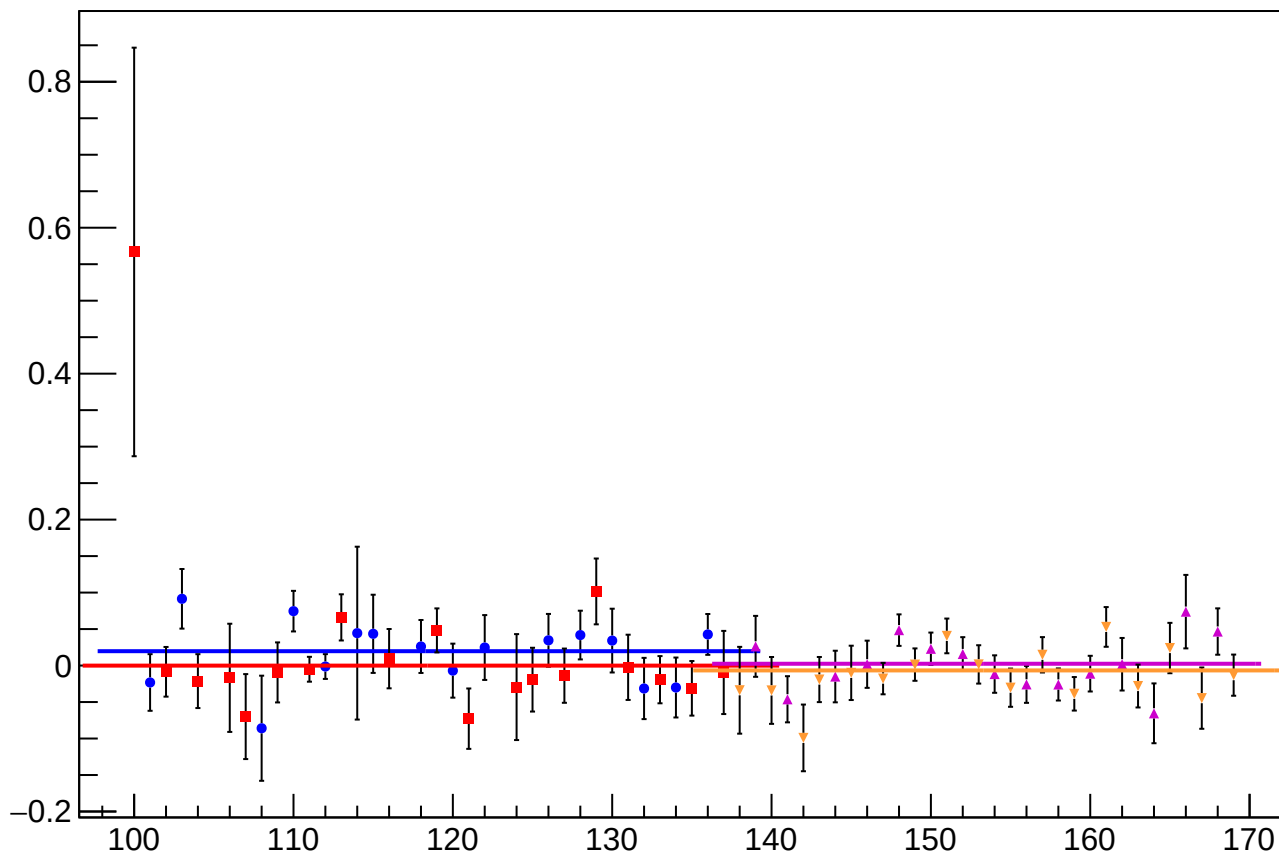
Right: 0.002+/-0.000 χ^2/NDF : 2413966.0/34

In: 0.002+/-0.000 χ^2/NDF : 1510608.4/30

Out: 0.002+/-0.000 χ^2/NDF : 2217136.1/35

All: 0.002+/-0.000 χ^2/NDF : 3741729.0/66

asym_sam8_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.020 $\pm$ 0.009 χ^2 /NDF: 17.0/15

Left Out: -0.007 $\pm$ 0.007 χ^2 /NDF:19.8/16

Right Out: -0.000 $\pm$ 0.009 χ^2 /NDF: 22.8/18

Left In: 0.002 $\pm$ 0.007 χ^2 /NDF:18.9/14

Left: -0.002 $\pm$ 0.005 χ^2 /NDF: 39.5/31

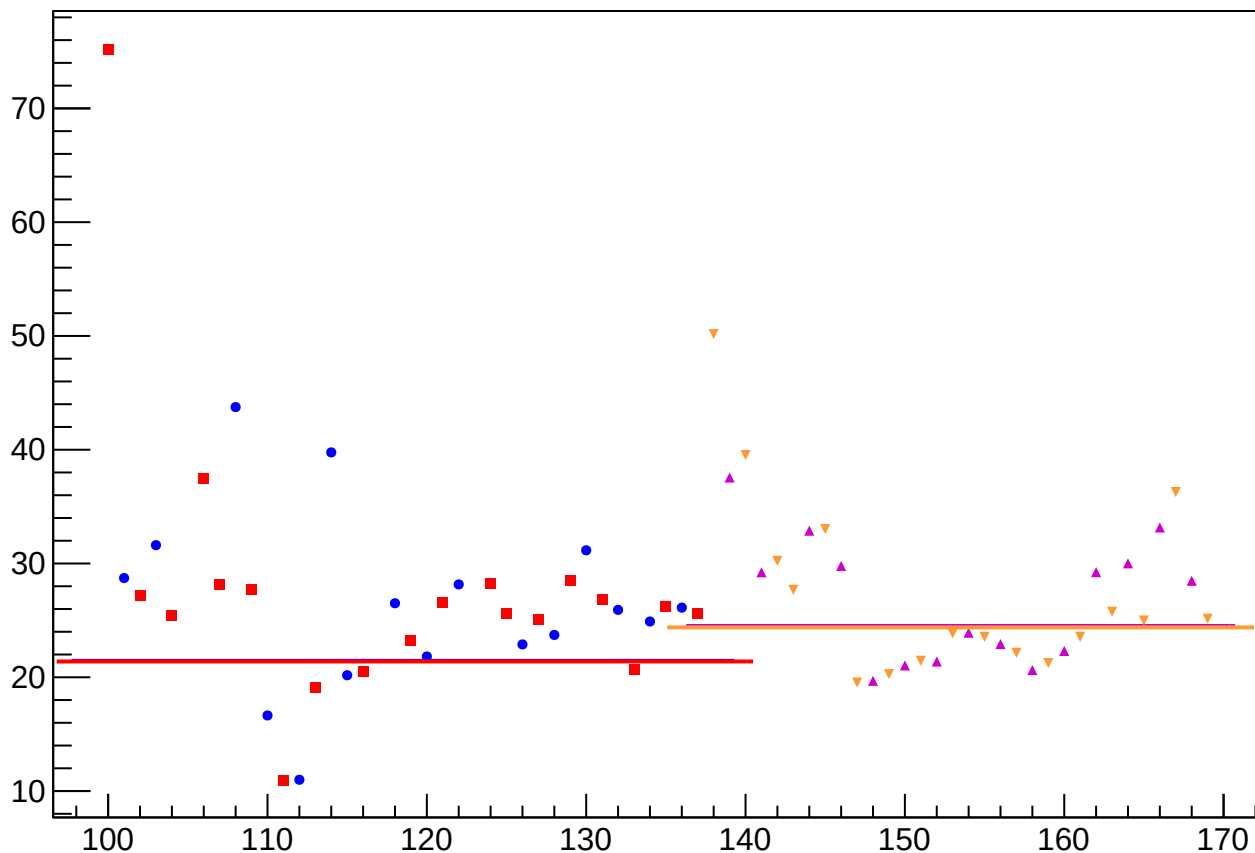
Right: 0.010 $\pm$ 0.006 χ^2 /NDF: 42.5/34

In: 0.010 $\pm$ 0.006 χ^2 /NDF:38.2/30

Out: -0.004 $\pm$ 0.005 χ^2 /NDF:43.0/35

All: 0.003 $\pm$ 0.004 χ^2 /NDF: 84.3/66

asym_sam8_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.443 $\pm$ 0.006 χ^2 /NDF: 1540859.8/15

Left Out: 24.383 $\pm$ 0.005 χ^2 /NDF: 1183599.3/16

Right Out: 21.389 $\pm$ 0.006 χ^2 /NDF: 1312055.7/18

Left In: 24.506 $\pm$ 0.005 χ^2 /NDF: 838654.0/14

Left: 24.442 $\pm$ 0.004 χ^2 /NDF: 2022549.8/31

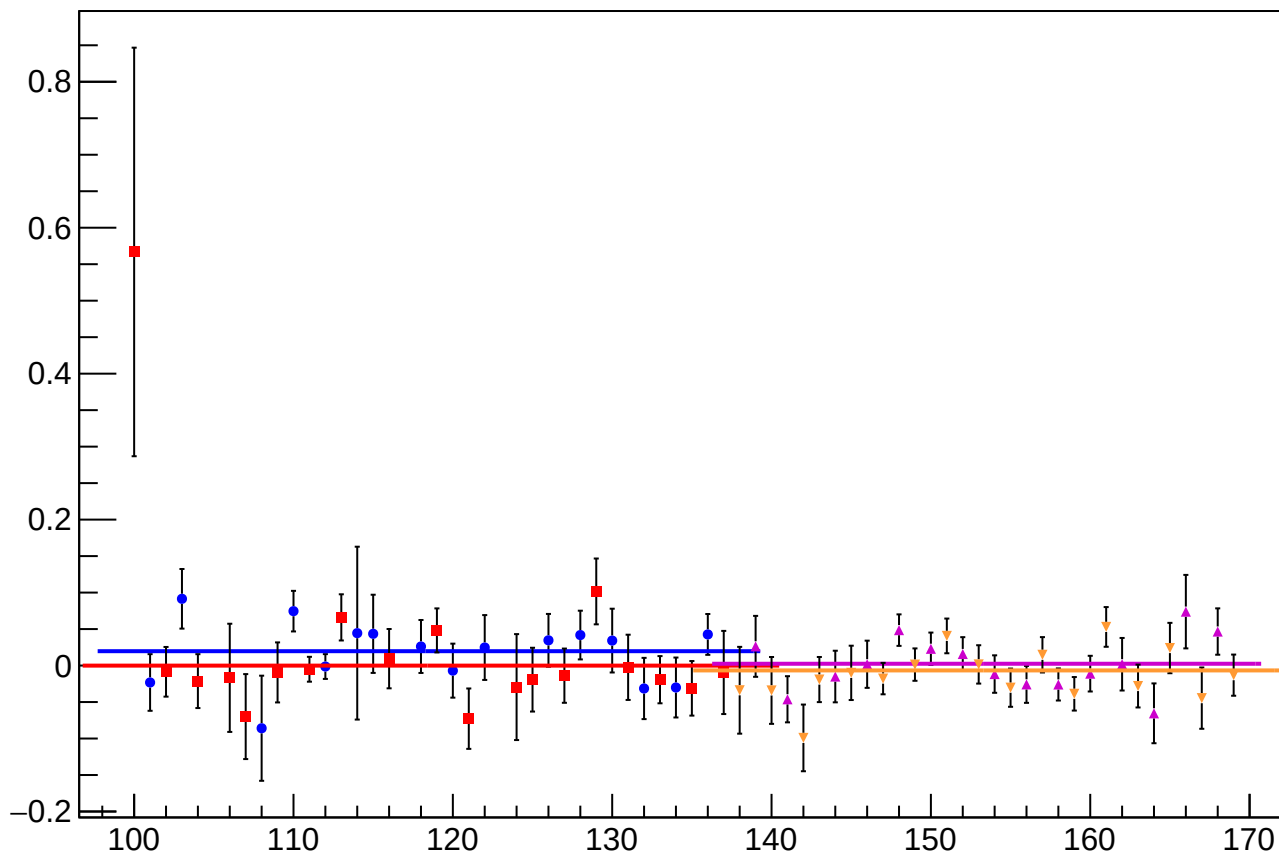
Right: 21.415 $\pm$ 0.004 χ^2 /NDF: 2852955.1/34

In: 23.245 $\pm$ 0.004 χ^2 /NDF: 2525892.6/30

Out: 23.182 $\pm$ 0.004 χ^2 /NDF: 2644112.9/35

All: 23.213 $\pm$ 0.003 χ^2 /NDF: 5170137.5/66

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.020 ± 0.009 $\chi^2/\text{NDF}: 17.0/15$

Left Out: -0.007 ± 0.007 $\chi^2/\text{NDF}: 19.8/16$

Right Out: -0.000 ± 0.009 $\chi^2/\text{NDF}: 22.8/18$

Left In: 0.002 ± 0.007 $\chi^2/\text{NDF}: 18.9/14$

Left: -0.002 ± 0.005 $\chi^2/\text{NDF}: 39.5/31$

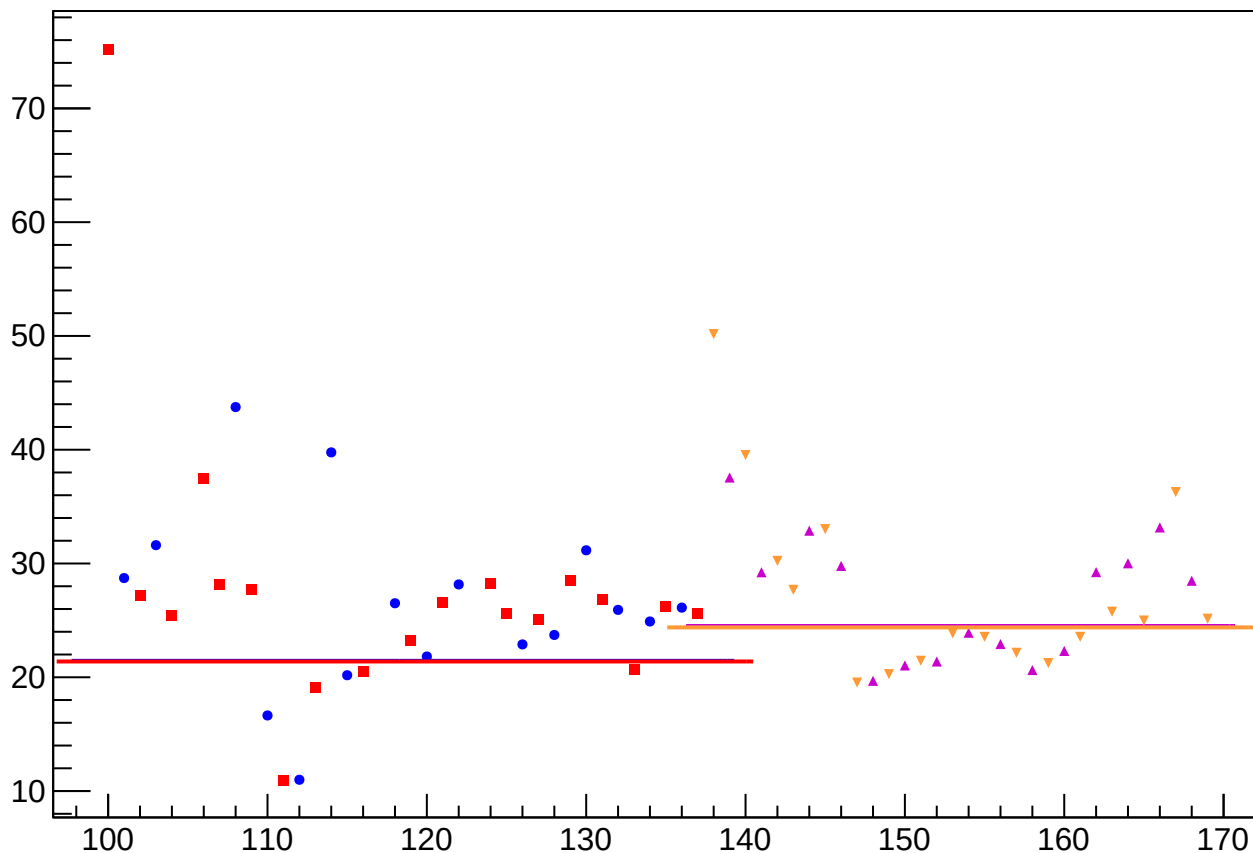
Right: 0.010 ± 0.006 $\chi^2/\text{NDF}: 42.5/34$

In: 0.010 ± 0.006 $\chi^2/\text{NDF}: 38.2/30$

Out: -0.004 ± 0.005 $\chi^2/\text{NDF}: 43.0/35$

All: 0.003 ± 0.004 $\chi^2/\text{NDF}: 84.3/66$

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.443+/-0.006 χ^2/NDF : 1540859.8/15

Left Out: 24.383+/-0.005 χ^2/NDF : 1183599.3/16

Right Out: 21.389+/-0.006 χ^2/NDF : 1312055.7/18

Left In: 24.506+/-0.005 χ^2/NDF : 838654.0/14

Left: 24.442+/-0.004 χ^2/NDF : 2022549.8/31

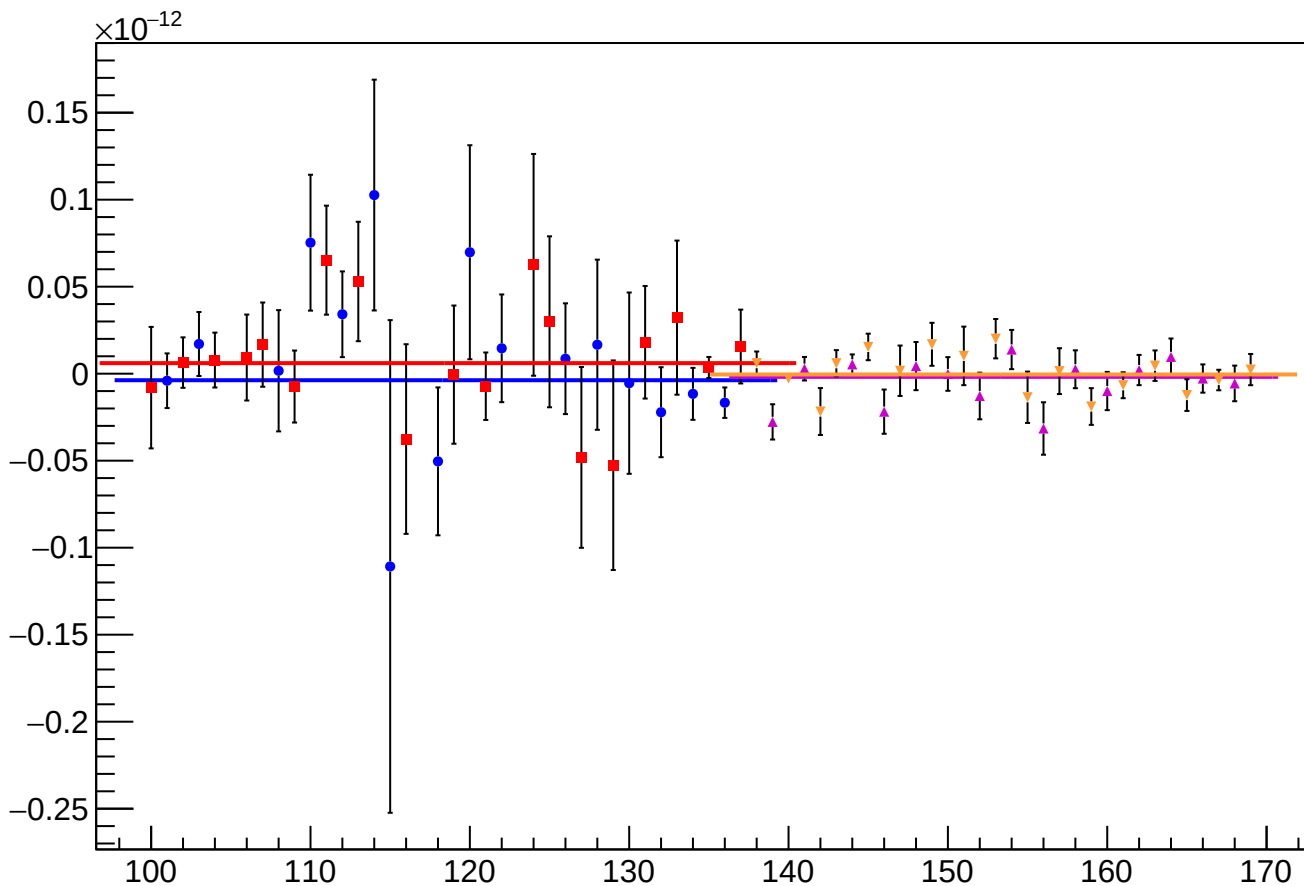
Right: 21.415+/-0.004 χ^2/NDF : 2852955.1/34

In: 23.245+/-0.004 χ^2/NDF : 2525892.6/30

Out: 23.182+/-0.004 χ^2/NDF : 2644112.9/35

All: 23.213+/-0.003 χ^2/NDF : 5170137.5/66

asym_sam8_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 17.2/15

Left Out: -0.000+/-0.000 χ^2 /NDF:21.8/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 11.3/18

Left In: -0.000+/-0.000 χ^2 /NDF:20.0/14

Left: -0.000+/-0.000 χ^2 /NDF: 42.0/31

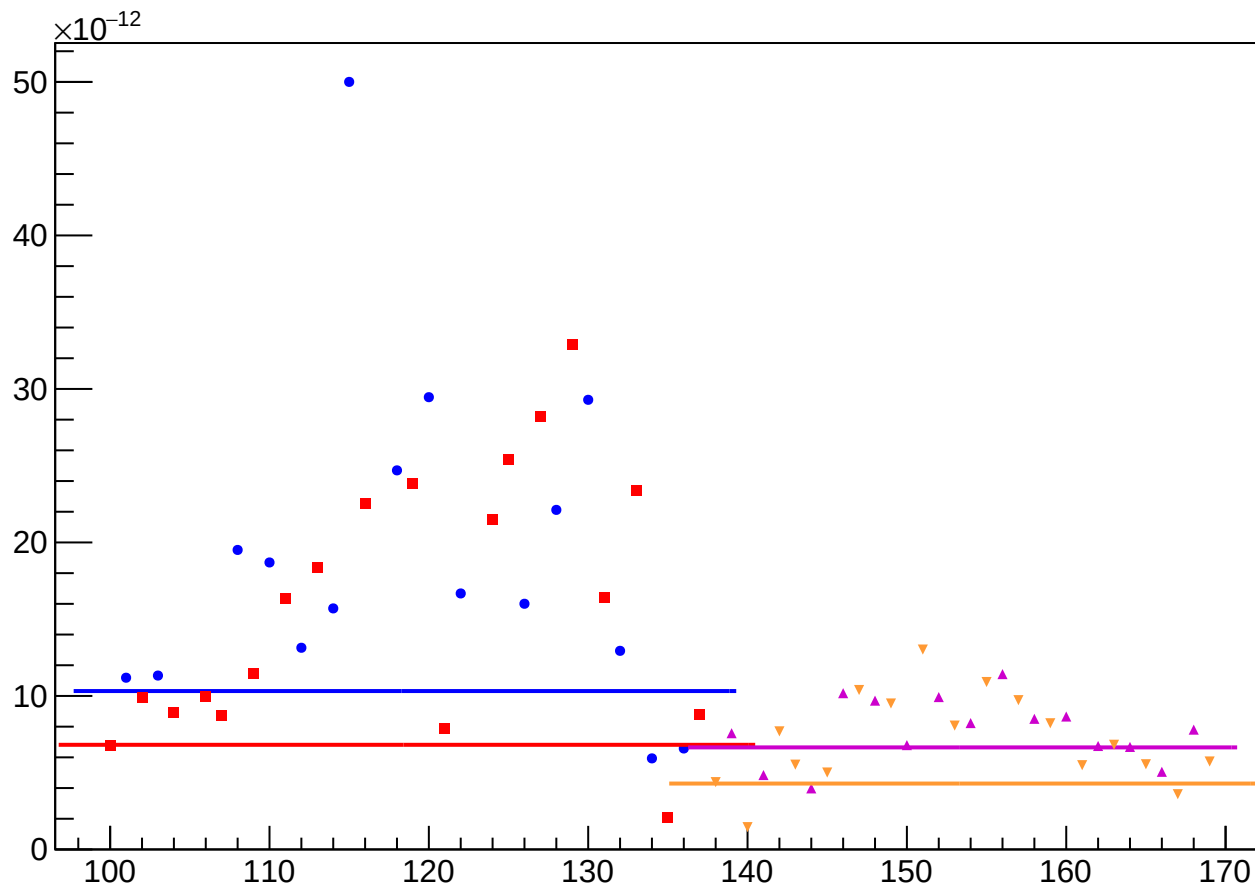
Right: 0.000+/-0.000 χ^2 /NDF: 30.5/34

In: -0.000+/-0.000 χ^2 /NDF:37.3/30

Out: 0.000+/-0.000 χ^2 /NDF:35.0/35

All: -0.000+/-0.000 χ^2 /NDF: 73.2/66

asym_sam8_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1951308.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 4972196.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4021812.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 1433553.7/14

Left: 0.000+/-0.000 χ^2/NDF : 7603397.0/31

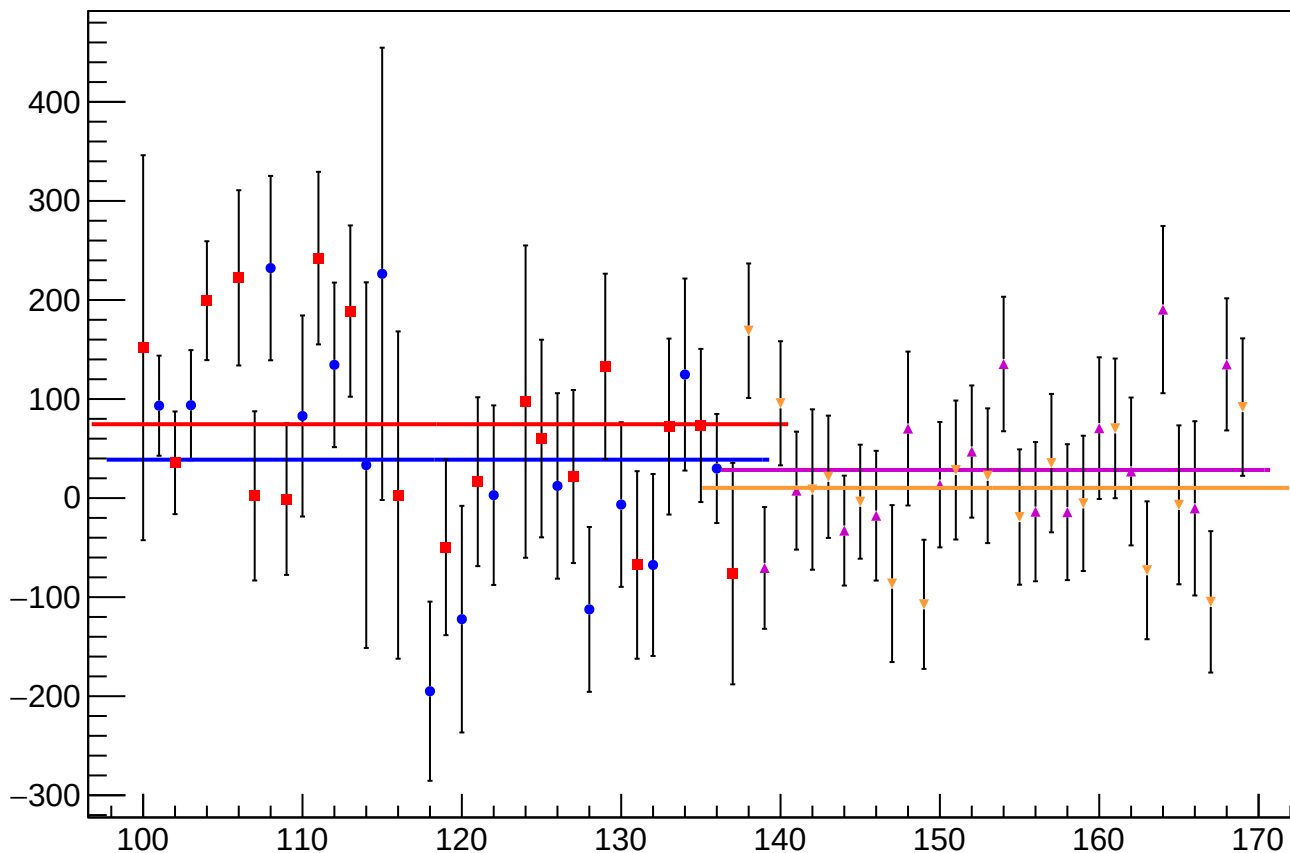
Right: 0.000+/-0.000 χ^2/NDF : 6473556.7/34

In: 0.000+/-0.000 χ^2/NDF : 4128155.9/30

Out: 0.000+/-0.000 χ^2/NDF : 9572446.8/35

All: 0.000+/-0.000 χ^2/NDF : 15431981.0/66

reg_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 38.782 $\pm$ 20.413 χ^2 /NDF: 23.3/15

Left Out: 10.303 $\pm$ 16.660 χ^2 /NDF:18.8/16

Right Out: 74.578 $\pm$ 19.802 χ^2 /NDF: 22.5/18

Left In: 28.389 $\pm$ 17.552 χ^2 /NDF:14.9/14

Left: 18.875 $\pm$ 12.084 χ^2 /NDF: 34.2/31

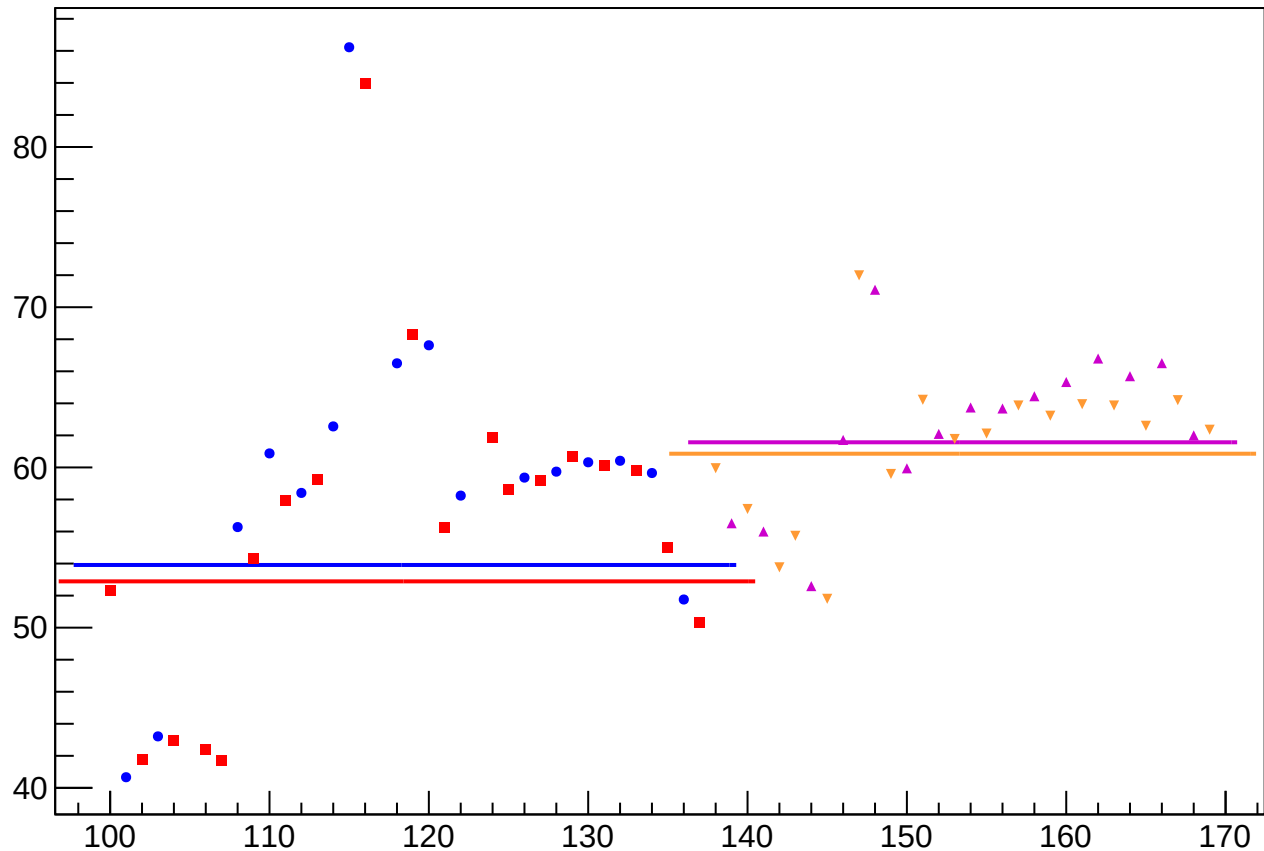
Right: 57.224 $\pm$ 14.213 χ^2 /NDF: 47.3/34

In: 32.807 $\pm$ 13.309 χ^2 /NDF:38.3/30

Out: 36.944 $\pm$ 12.748 χ^2 /NDF:47.4/35

All: 34.964 $\pm$ 9.206 χ^2 /NDF: 85.8/66

reg_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 53.912 $\pm$ 0.014 χ^2 /NDF: 393261.4/15

Left Out: 60.856 $\pm$ 0.012 χ^2 /NDF: 150903.9/16

Right Out: 52.889 $\pm$ 0.014 χ^2 /NDF: 425226.7/18

Left In: 61.569 $\pm$ 0.012 χ^2 /NDF: 148738.8/14

Left: 61.194 $\pm$ 0.009 χ^2 /NDF: 301377.5/31

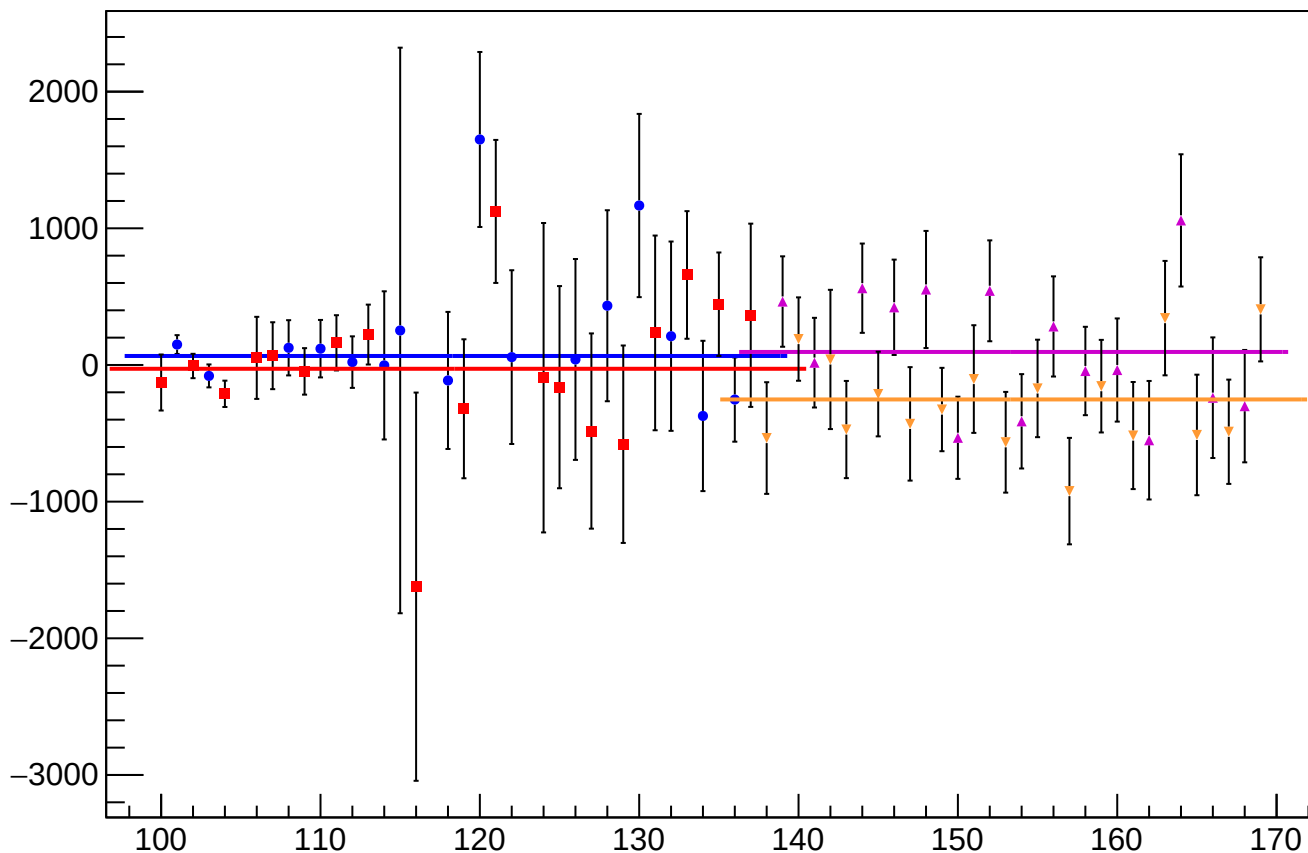
Right: 53.385 $\pm$ 0.010 χ^2 /NDF: 821077.5/34

In: 58.314 $\pm$ 0.009 χ^2 /NDF: 703781.8/30

Out: 57.554 $\pm$ 0.009 χ^2 /NDF: 765714.2/35

All: 57.918 $\pm$ 0.007 χ^2 /NDF: 1472900.5/66

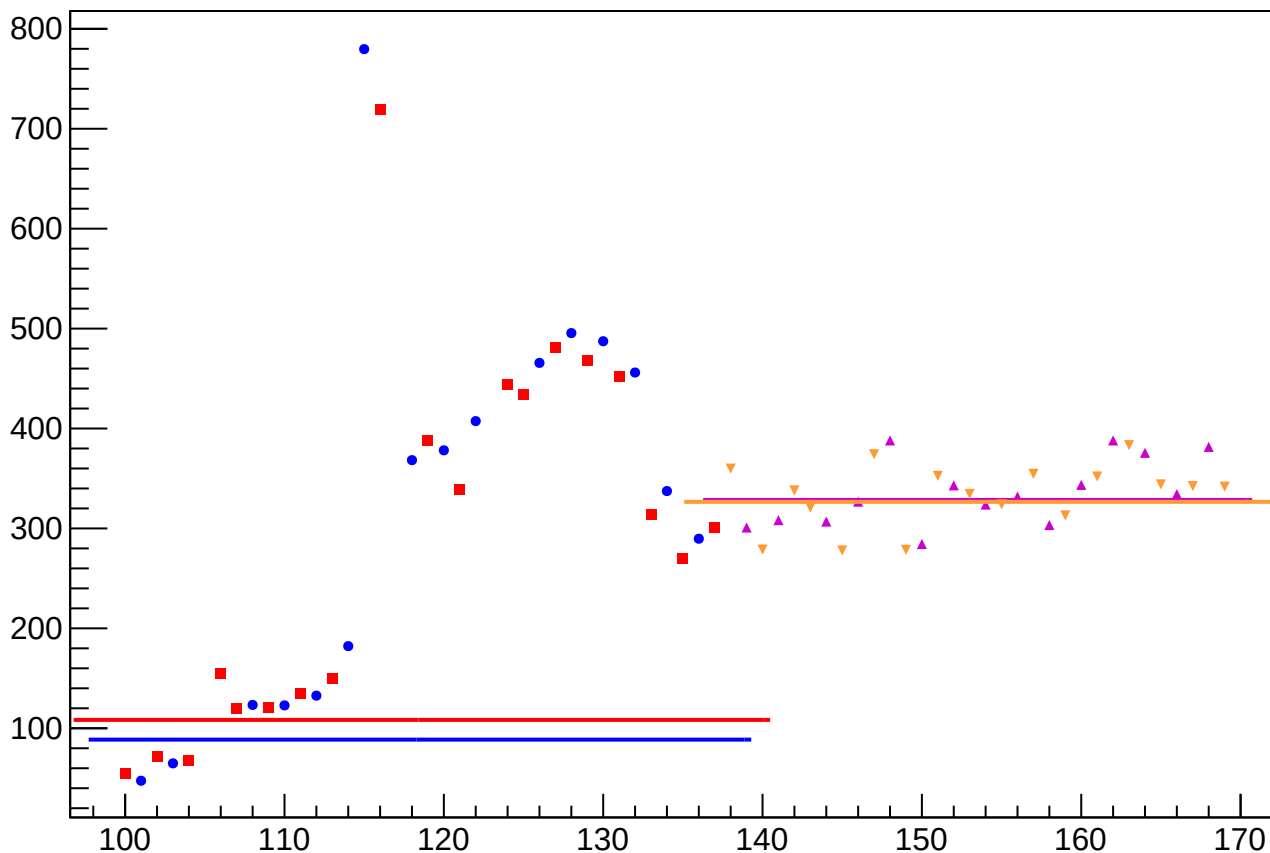
asym_sam_15_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: 65.853 ± 46.478 $\chi^2/\text{NDF}: 15.7/15$
 Left Out: -252.226 ± 89.956 $\chi^2/\text{NDF}: 13.7/16$
 Right Out: -27.850 ± 50.291 $\chi^2/\text{NDF}: 18.0/18$
 Left In: 95.310 ± 94.106 $\chi^2/\text{NDF}: 21.6/14$

Left: -86.290 ± 65.026 $\chi^2/\text{NDF}: 42.4/31$
 Right: 22.688 ± 34.134 $\chi^2/\text{NDF}: 35.6/34$
 In: 71.630 ± 41.673 $\chi^2/\text{NDF}: 37.4/30$
 Out: -81.280 ± 43.897 $\chi^2/\text{NDF}: 36.4/35$
 All: -0.854 ± 30.223 $\chi^2/\text{NDF}: 80.2/66$

asym_sam_15_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 88.658+/-0.033 χ^2/NDF : 6648055.6/15

Left Out: 326.606+/-0.064 χ^2/NDF : 267246.6/16

Right Out: 108.385+/-0.036 χ^2/NDF : 5362841.6/18

Left In: 328.520+/-0.067 χ^2/NDF : 221277.6/14

Left: 327.520+/-0.046 χ^2/NDF : 488956.3/31

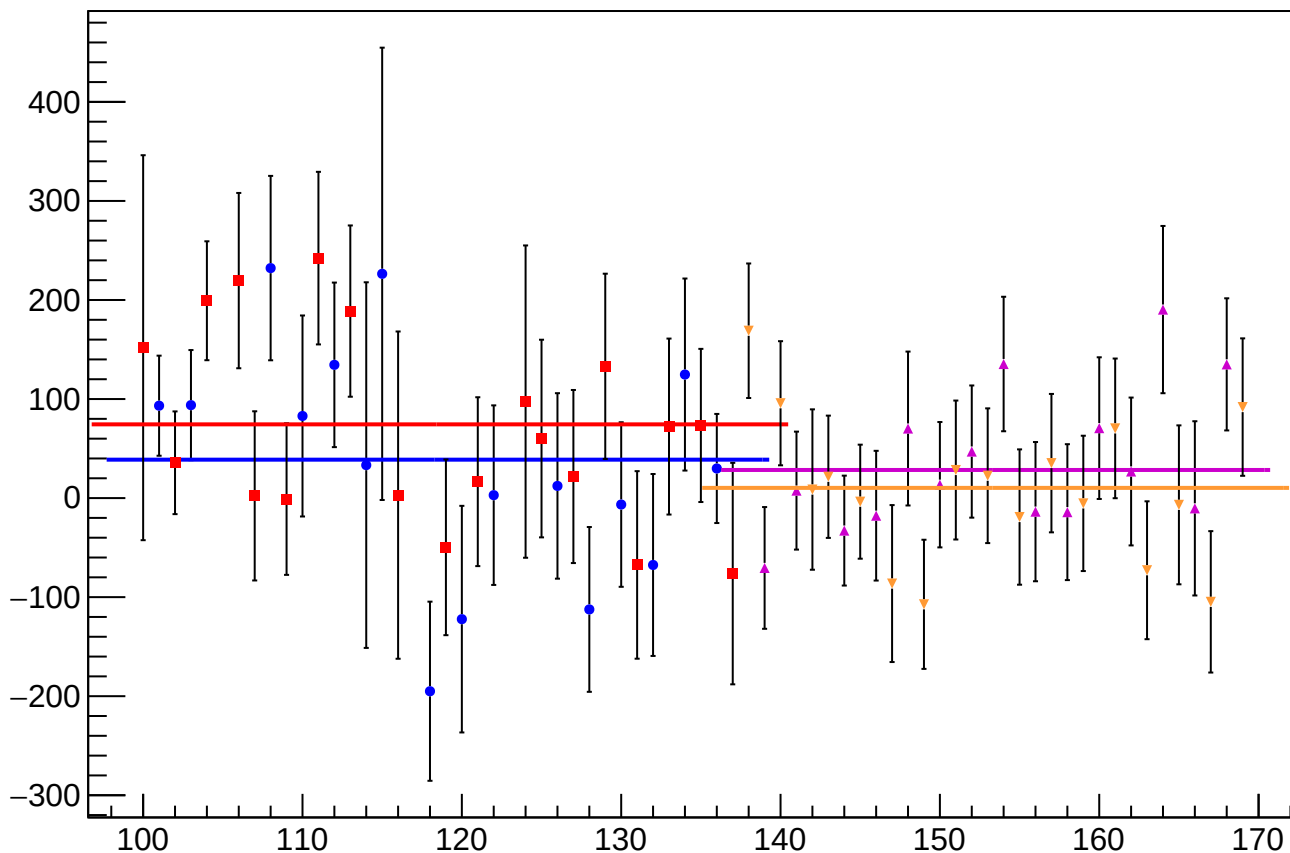
Right: 97.745+/-0.024 χ^2/NDF : 12176874.0/34

In: 135.694+/-0.029 χ^2/NDF : 17314654.0/30

Out: 160.350+/-0.031 χ^2/NDF : 14597068.0/35

All: 147.381+/-0.021 χ^2/NDF : 32243577.1/66

cor_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 38.794 $\pm$ 20.413 χ^2 /NDF: 23.3/15

Left Out: 10.305 $\pm$ 16.660 χ^2 /NDF:18.8/16

Right Out: 74.442 $\pm$ 19.803 χ^2 /NDF: 22.3/18

Left In: 28.387 $\pm$ 17.552 χ^2 /NDF:14.9/14

Left: 18.875 $\pm$ 12.084 χ^2 /NDF: 34.2/31

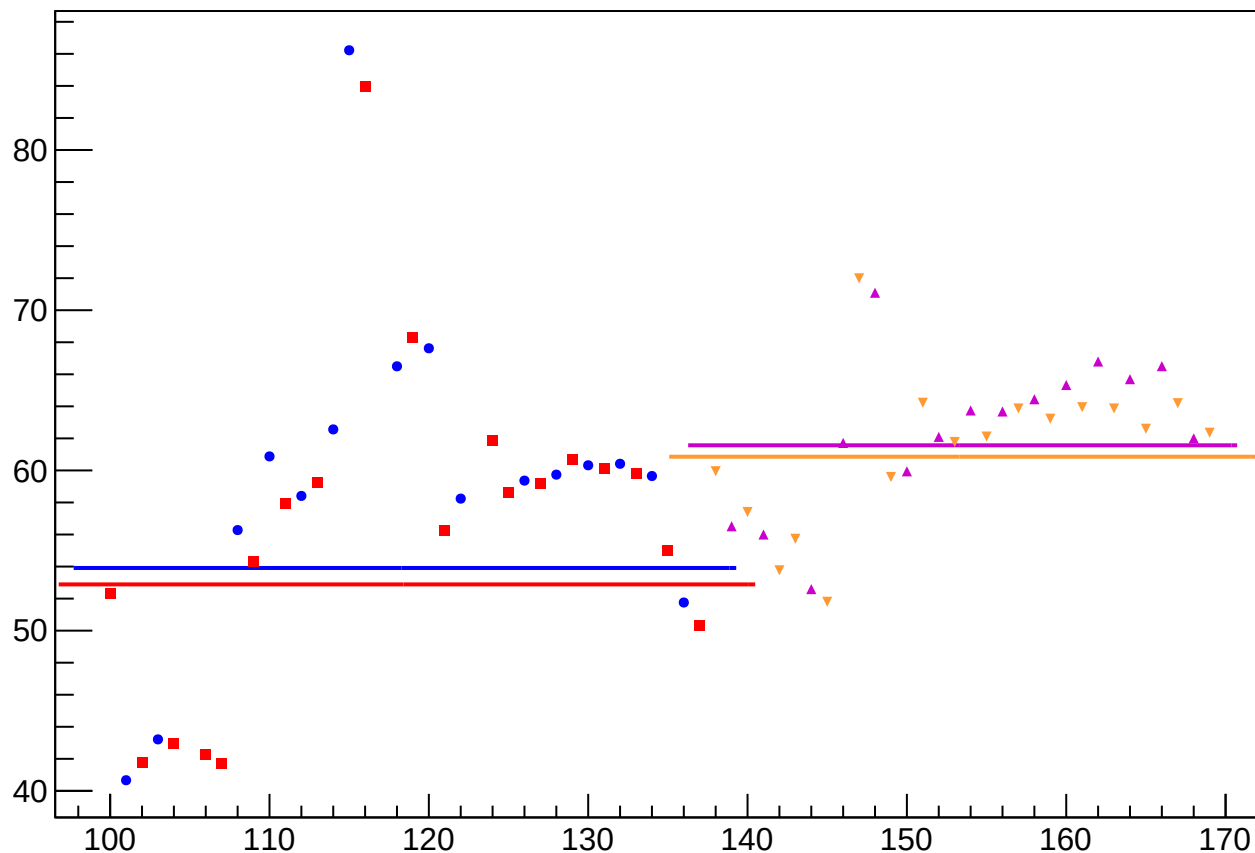
Right: 57.159 $\pm$ 14.214 χ^2 /NDF: 47.2/34

In: 32.811 $\pm$ 13.309 χ^2 /NDF:38.3/30

Out: 36.886 $\pm$ 12.749 χ^2 /NDF:47.3/35

All: 34.936 $\pm$ 9.206 χ^2 /NDF: 85.6/66

cor_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 53.912 $\pm$ 0.014 χ^2 /NDF: 393260.8/15

Left Out: 60.856 $\pm$ 0.012 χ^2 /NDF: 150903.9/16

Right Out: 52.887 $\pm$ 0.014 χ^2 /NDF: 425534.3/18

Left In: 61.569 $\pm$ 0.012 χ^2 /NDF: 148738.8/14

Left: 61.194 $\pm$ 0.009 χ^2 /NDF: 301377.5/31

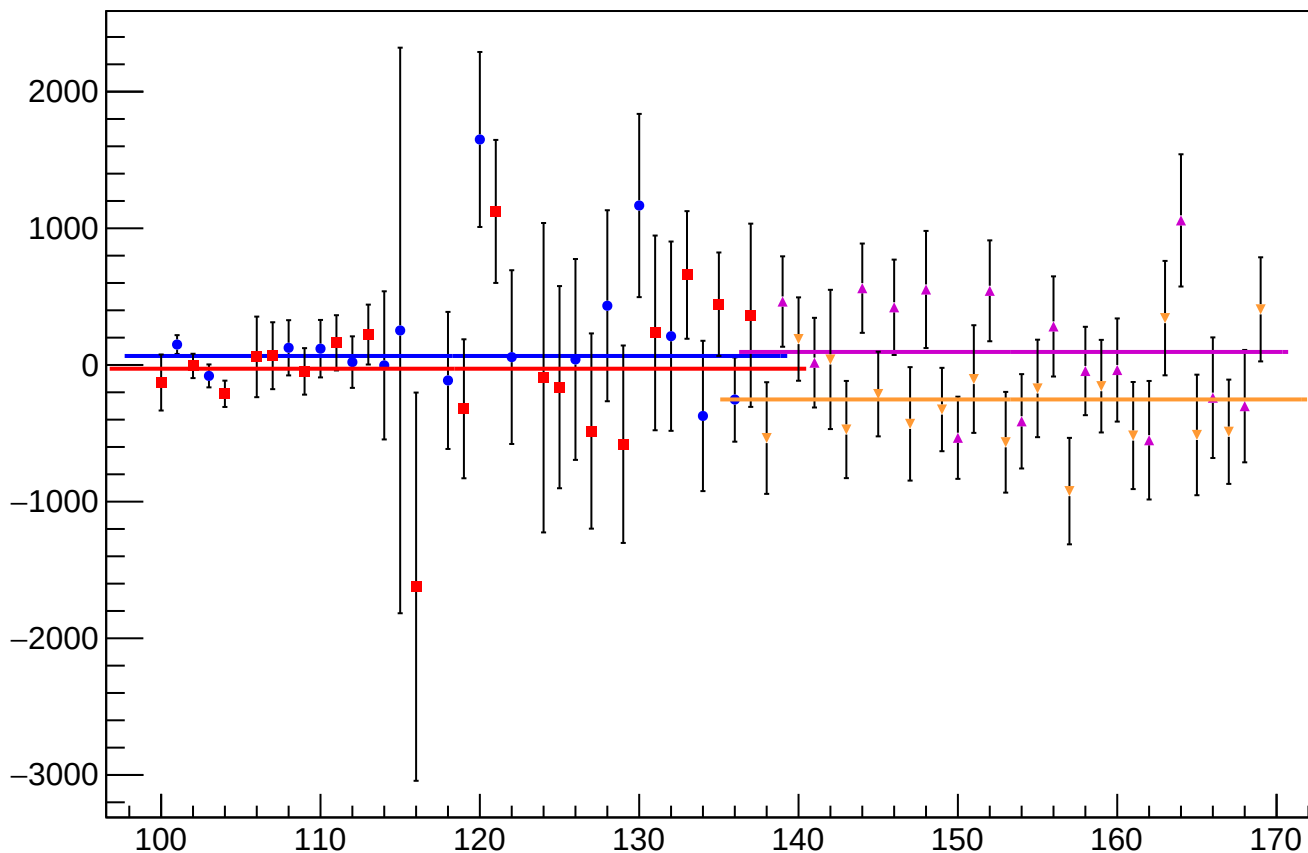
Right: 53.384 $\pm$ 0.010 χ^2 /NDF: 821395.7/34

In: 58.314 $\pm$ 0.009 χ^2 /NDF: 703780.9/30

Out: 57.553 $\pm$ 0.009 χ^2 /NDF: 766112.8/35

All: 57.918 $\pm$ 0.007 χ^2 /NDF: 1473304.1/66

asym_sam_15_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: 65.857 $\pm$ 46.477 χ^2 /NDF: 15.7/15

Left Out: -252.225 $\pm$ 89.956 χ^2 /NDF:13.7/16

Right Out: -27.406 $\pm$ 50.249 χ^2 /NDF: 18.0/18

Left In: 95.310 $\pm$ 94.106 χ^2 /NDF:21.6/14

Left: -86.289 $\pm$ 65.026 χ^2 /NDF: 42.4/31

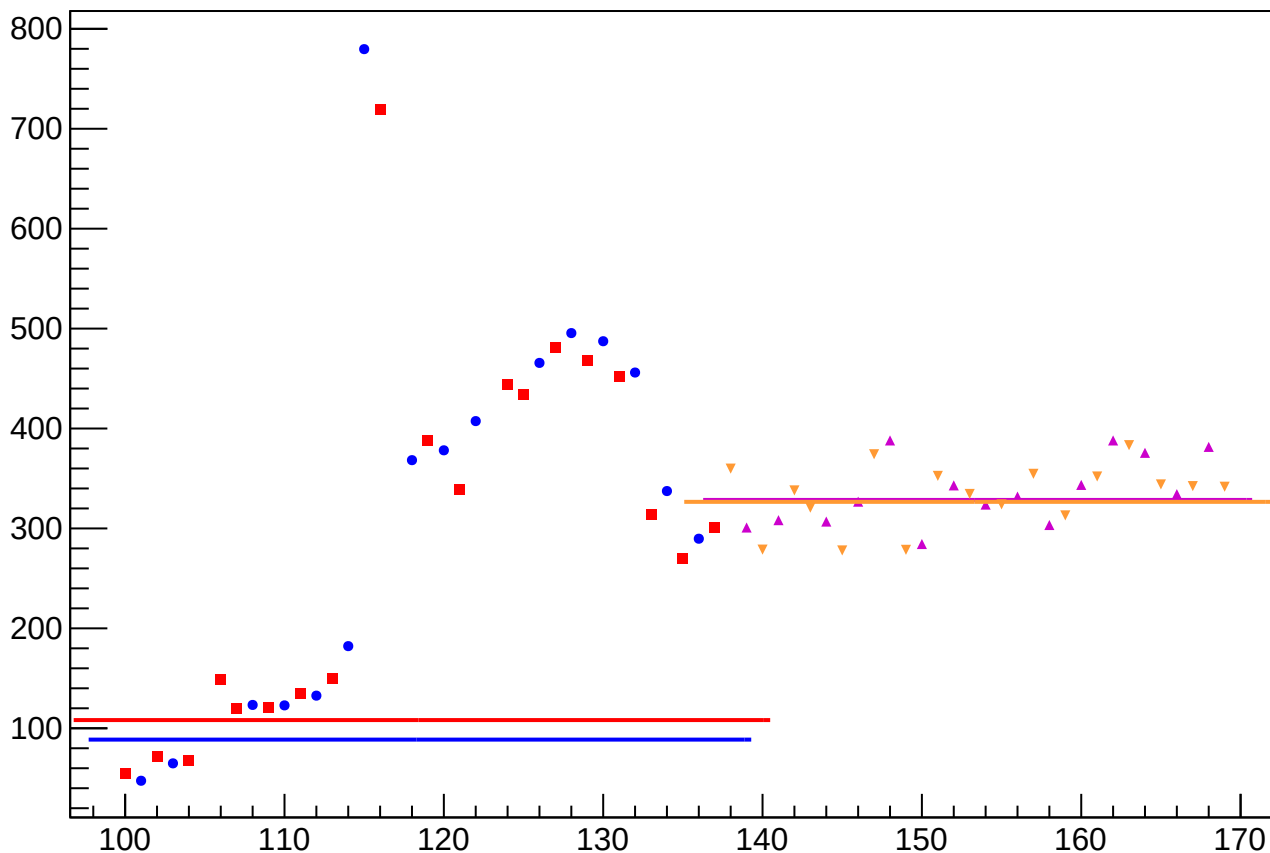
Right: 22.856 $\pm$ 34.120 χ^2 /NDF: 35.6/34

In: 71.632 $\pm$ 41.672 χ^2 /NDF:37.4/30

Out: -80.872 $\pm$ 43.869 χ^2 /NDF:36.5/35

All: -0.707 $\pm$ 30.213 χ^2 /NDF: 80.2/66

asym_sam_15_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 88.655+/-0.033 χ^2/NDF : 6648135.5/15

Left Out: 326.607+/-0.064 χ^2/NDF : 267245.5/16

Right Out: 108.207+/-0.036 χ^2/NDF : 5354864.8/18

Left In: 328.520+/-0.067 χ^2/NDF : 221282.9/14

Left: 327.520+/-0.046 χ^2/NDF : 488960.4/31

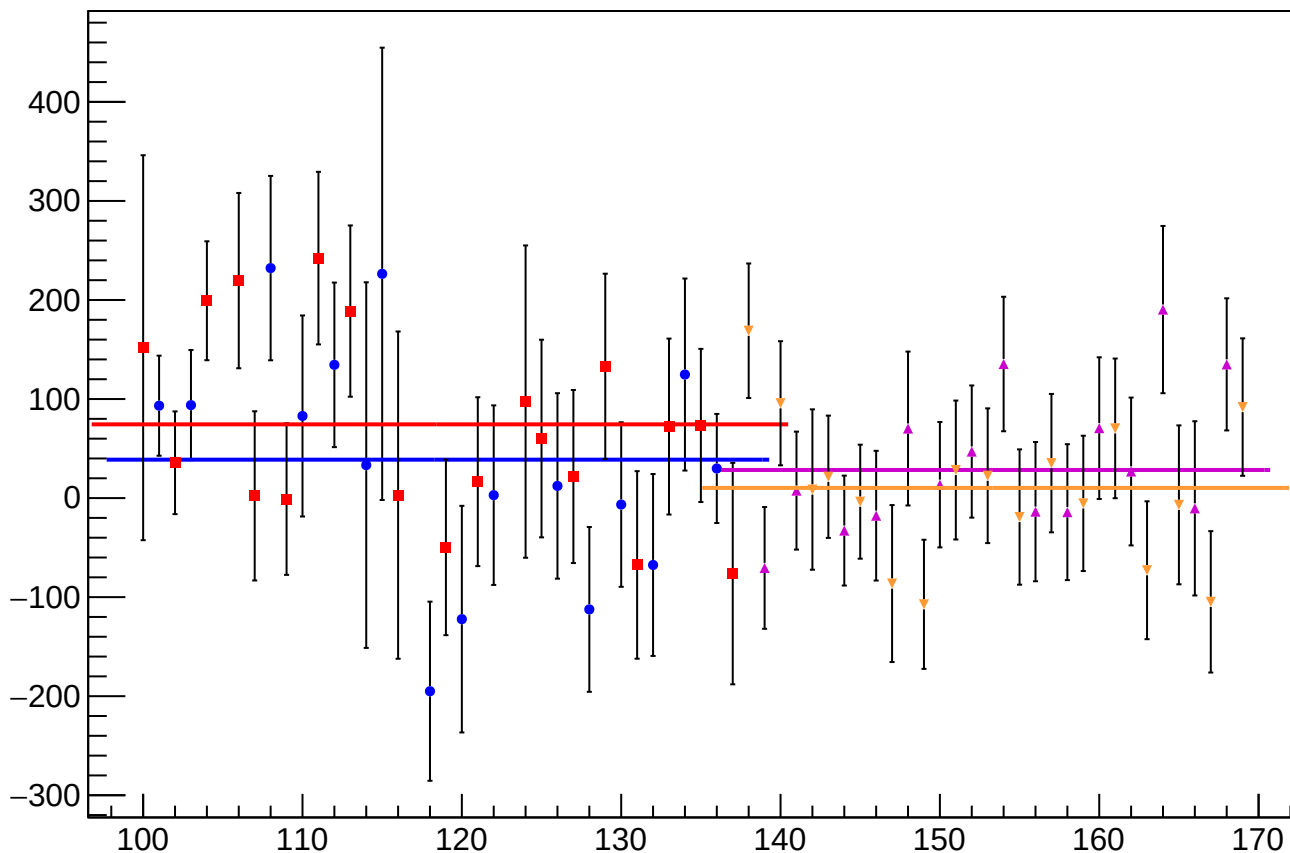
Right: 97.670+/-0.024 χ^2/NDF : 12166180.8/34

In: 135.690+/-0.029 χ^2/NDF : 17315042.3/30

Out: 160.146+/-0.031 χ^2/NDF : 14607414.0/35

All: 147.291+/-0.021 χ^2/NDF : 32249184.8/66

eigen_cor_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 38.794 $\pm$ 20.413 χ^2 /NDF: 23.3/15

Left Out: 10.305 $\pm$ 16.660 χ^2 /NDF:18.8/16

Right Out: 74.442 $\pm$ 19.803 χ^2 /NDF: 22.3/18

Left In: 28.387 $\pm$ 17.552 χ^2 /NDF:14.9/14

Left: 18.875 $\pm$ 12.084 χ^2 /NDF: 34.2/31

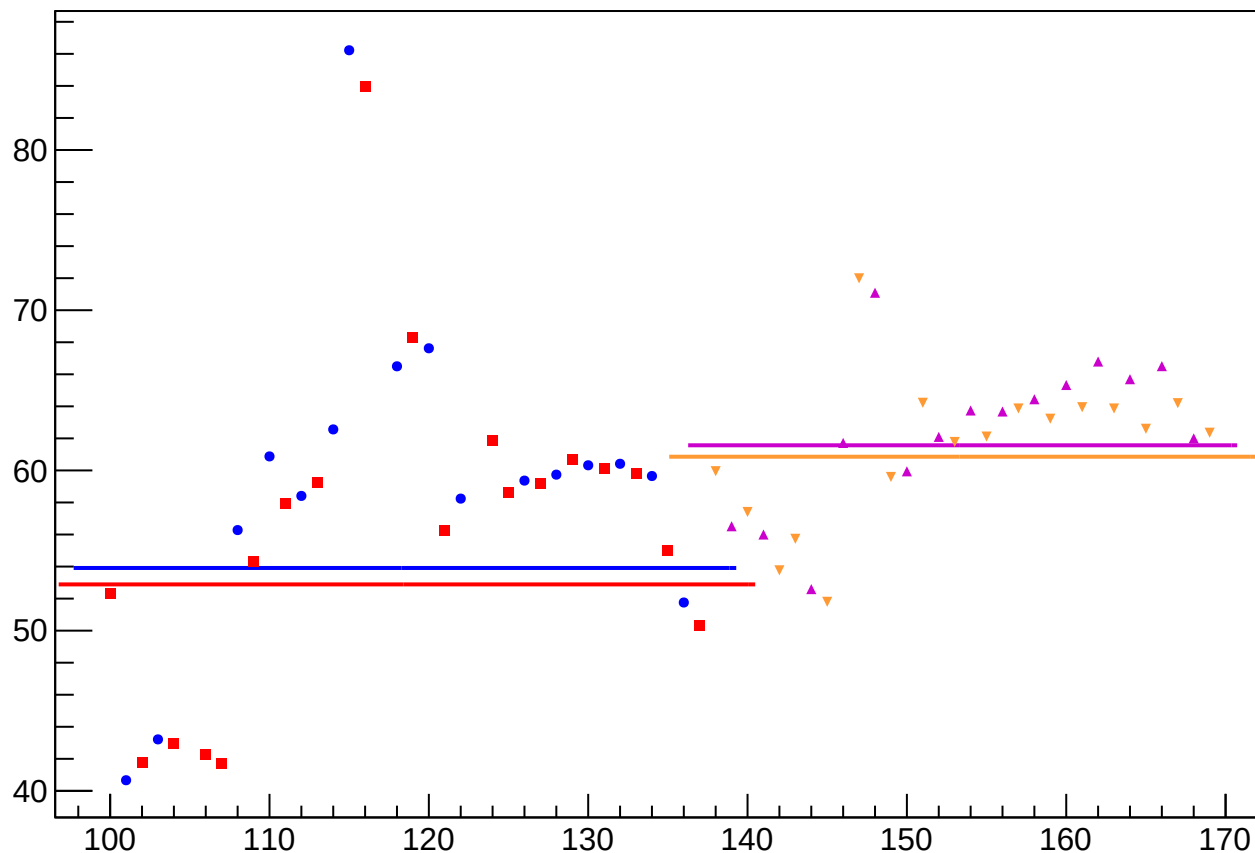
Right: 57.159 $\pm$ 14.214 χ^2 /NDF: 47.2/34

In: 32.811 $\pm$ 13.309 χ^2 /NDF:38.3/30

Out: 36.886 $\pm$ 12.749 χ^2 /NDF:47.3/35

All: 34.936 $\pm$ 9.206 χ^2 /NDF: 85.6/66

eigen_cor_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 53.912 $\pm$ 0.014 χ^2 /NDF: 393260.8/15

Left Out: 60.856 $\pm$ 0.012 χ^2 /NDF:150903.9/16

Right Out: 52.887 $\pm$ 0.014 χ^2 /NDF: 425534.3/18

Left In: 61.569 $\pm$ 0.012 χ^2 /NDF:148738.8/14

Left: 61.194 $\pm$ 0.009 χ^2 /NDF: 301377.5/31

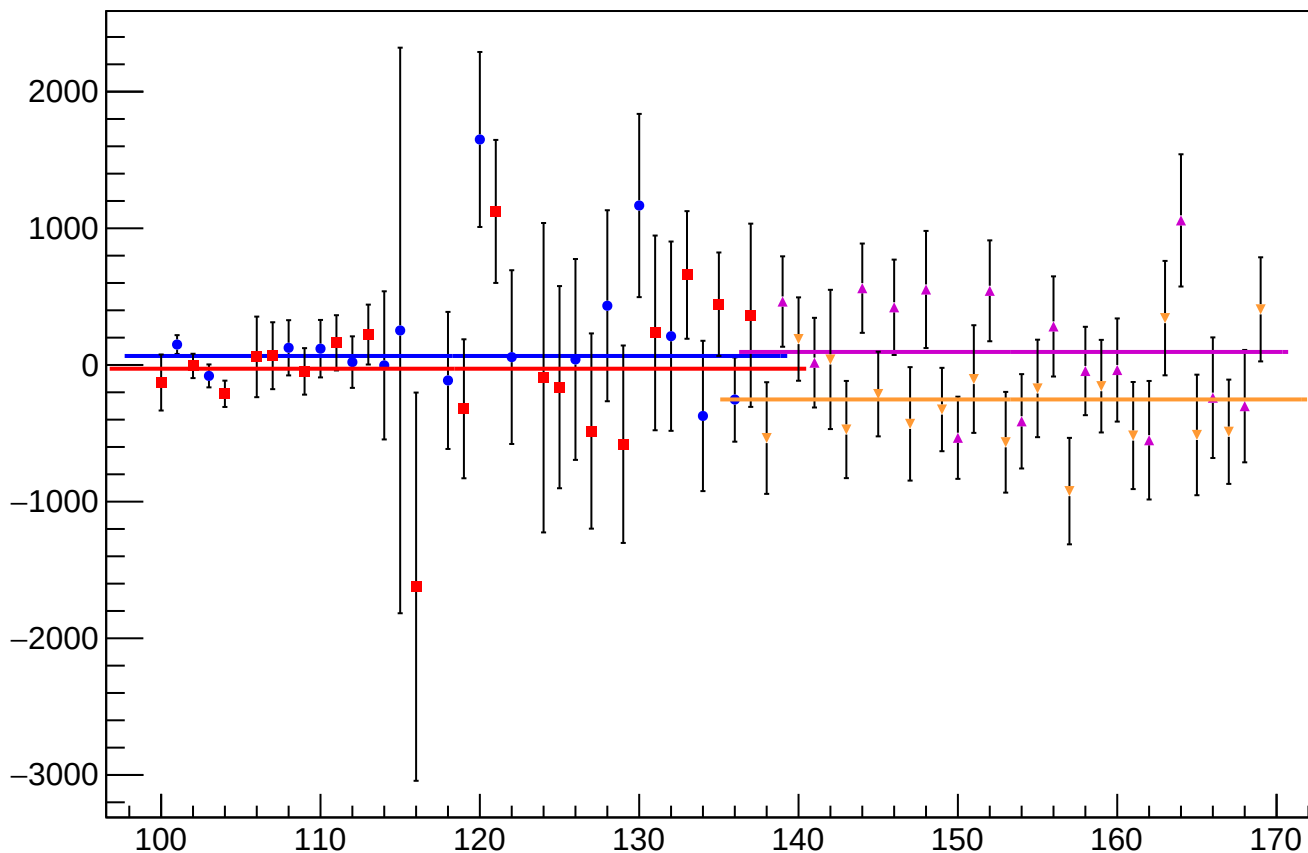
Right: 53.384 $\pm$ 0.010 χ^2 /NDF: 821395.7/34

In: 58.314 $\pm$ 0.009 χ^2 /NDF:703780.9/30

Out: 57.553 $\pm$ 0.009 χ^2 /NDF:766112.8/35

All: 57.918 $\pm$ 0.007 χ^2 /NDF: 1473304.1/66

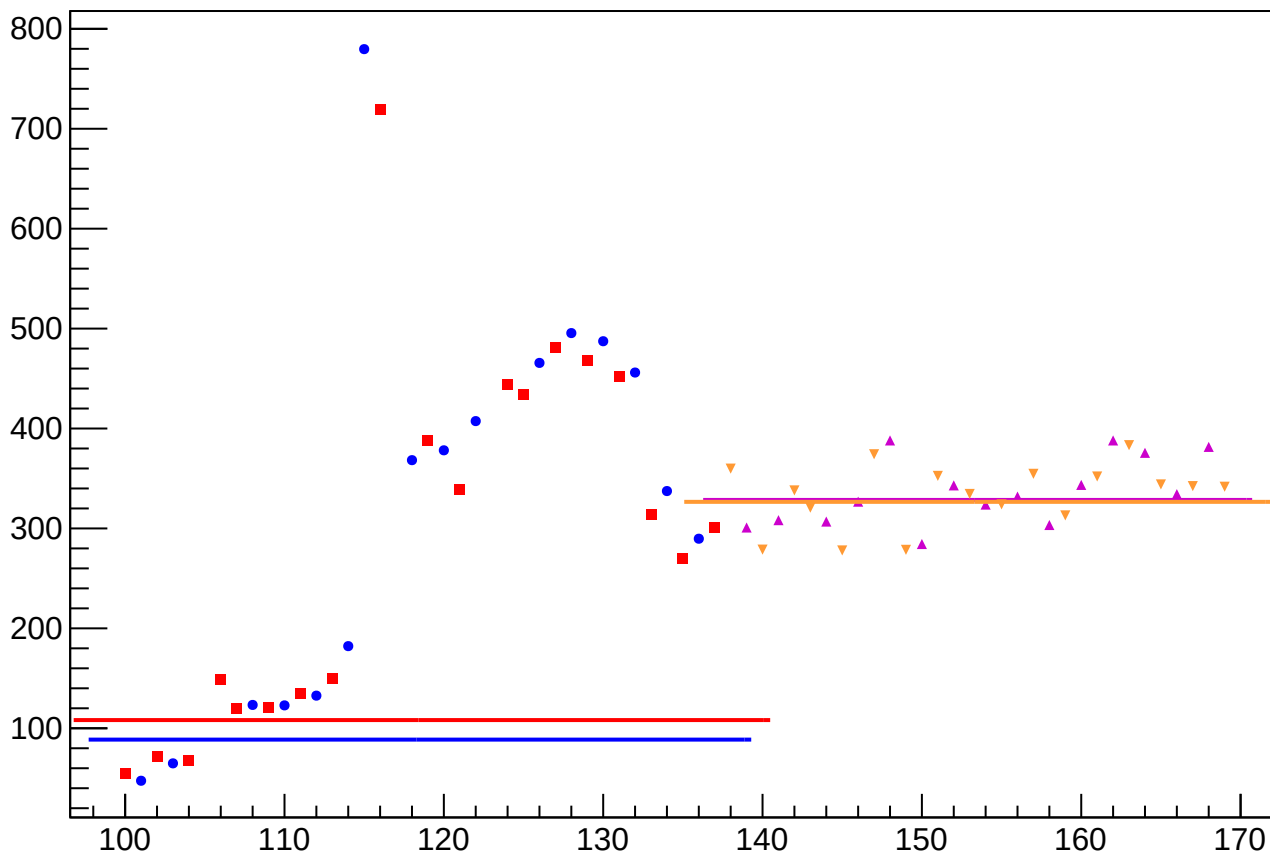
asym_sam_15_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 65.857 $\pm$ 46.477 χ^2 /NDF: 15.7/15
 Left Out: -252.225 $\pm$ 89.956 χ^2 /NDF:13.7/16
 Right Out: -27.406 $\pm$ 50.249 χ^2 /NDF: 18.0/18
 Left In: 95.310 $\pm$ 94.106 χ^2 /NDF:21.6/14

Left: -86.289 $\pm$ 65.026 χ^2 /NDF: 42.4/31
 Right: 22.856 $\pm$ 34.120 χ^2 /NDF: 35.6/34
 In: 71.632 $\pm$ 41.672 χ^2 /NDF:37.4/30
 Out: -80.872 $\pm$ 43.869 χ^2 /NDF:36.5/35
 All: -0.707 $\pm$ 30.213 χ^2 /NDF: 80.2/66

asym_sam_15_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 88.655+/-0.033 χ^2/NDF : 6648135.5/15

Left Out: 326.607+/-0.064 χ^2/NDF : 267245.5/16

Right Out: 108.207+/-0.036 χ^2/NDF : 5354864.8/18

Left In: 328.520+/-0.067 χ^2/NDF : 221282.9/14

Left: 327.520+/-0.046 χ^2/NDF : 488960.4/31

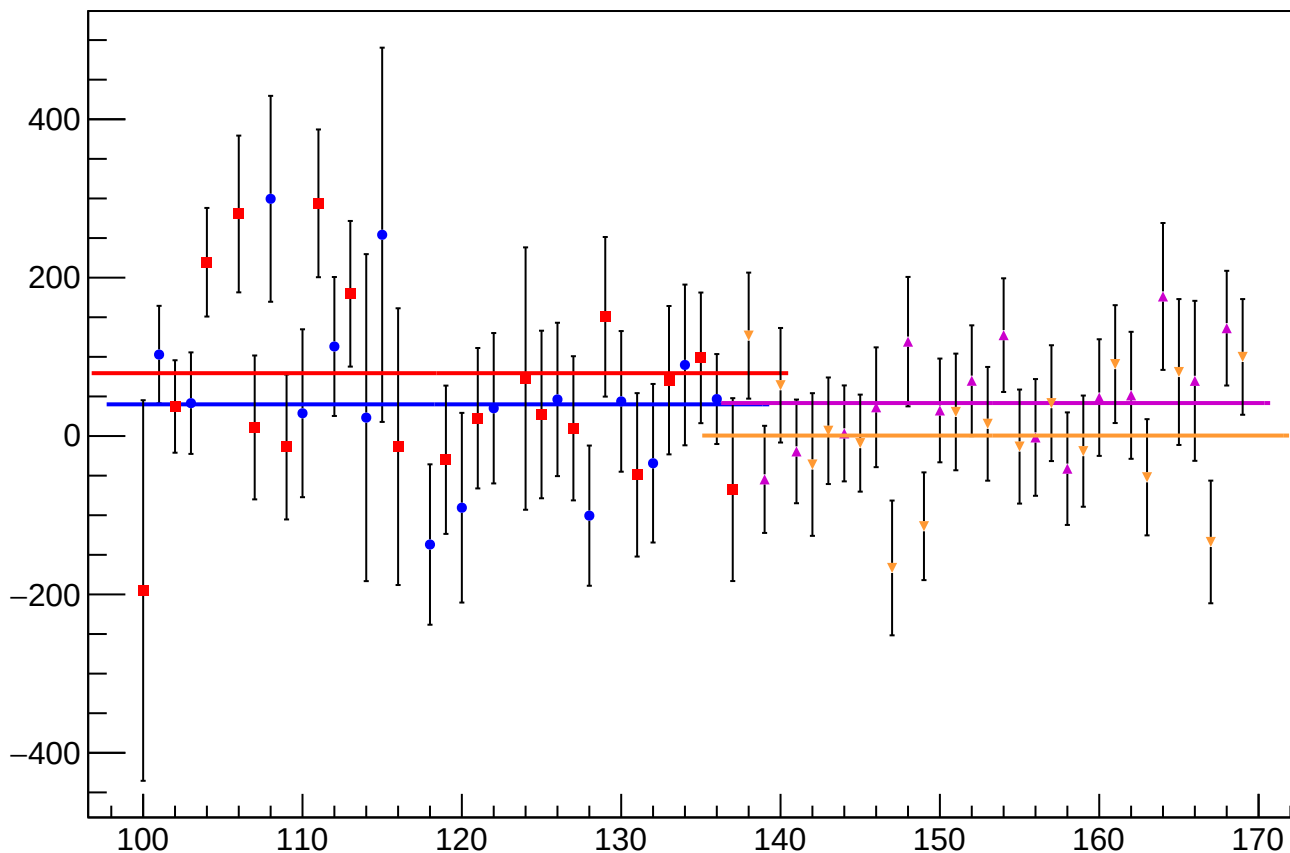
Right: 97.670+/-0.024 χ^2/NDF : 12166180.8/34

In: 135.690+/-0.029 χ^2/NDF : 17315042.3/30

Out: 160.146+/-0.031 χ^2/NDF : 14607414.0/35

All: 147.291+/-0.021 χ^2/NDF : 32249184.8/66

dit_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 40.030 $\pm$ 22.515 χ^2 /NDF: 14.1/15

Left Out: 0.619 $\pm$ 17.923 χ^2 /NDF:18.4/16

Right Out: 79.378 $\pm$ 21.577 χ^2 /NDF: 24.8/18

Left In: 41.652 $\pm$ 18.873 χ^2 /NDF:11.4/14

Left: 20.077 $\pm$ 12.996 χ^2 /NDF: 32.3/31

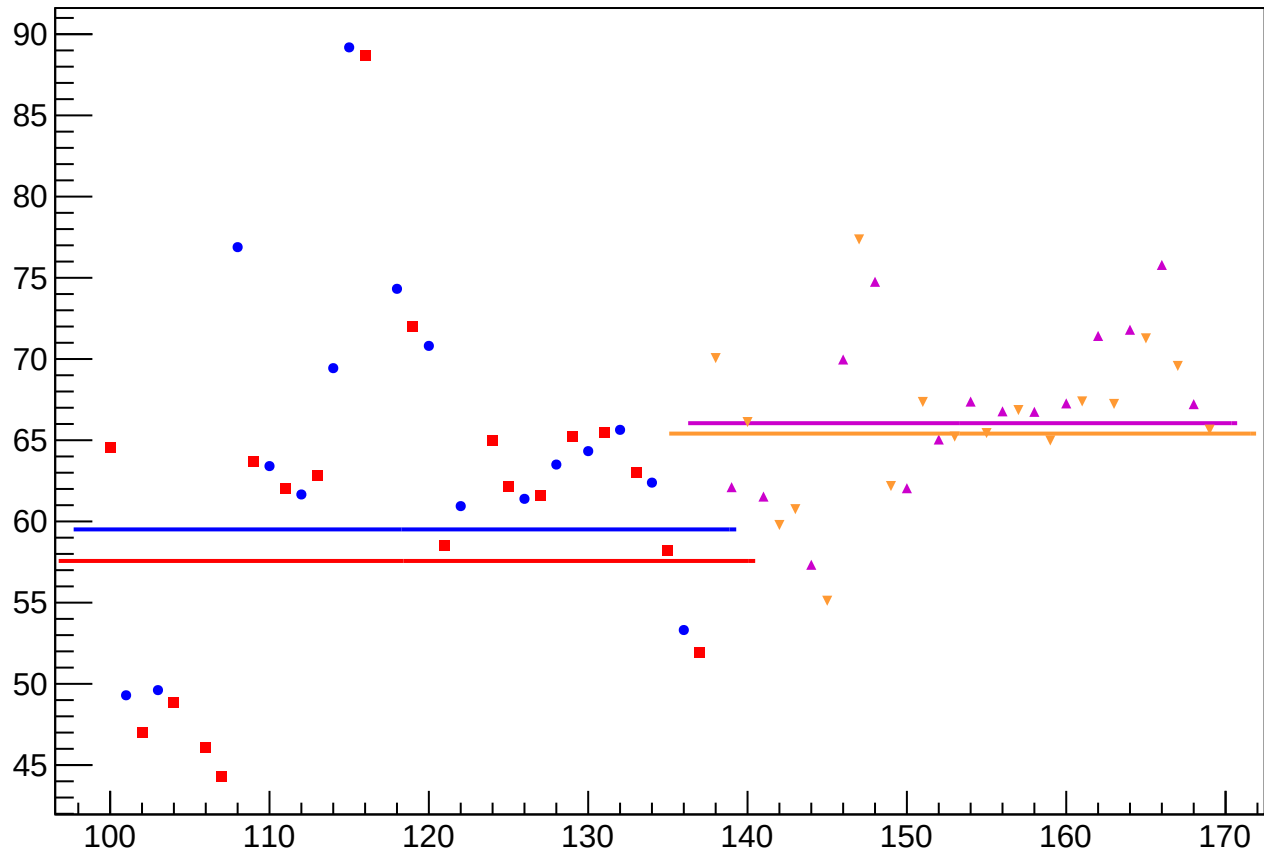
Right: 60.541 $\pm$ 15.578 χ^2 /NDF: 40.5/34

In: 40.983 $\pm$ 14.463 χ^2 /NDF:25.6/30

Out: 32.774 $\pm$ 13.787 χ^2 /NDF:51.1/35

All: 36.682 $\pm$ 9.979 χ^2 /NDF: 76.9/66

dit_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.509 $\pm$ 0.016 χ^2 /NDF: 283192.7/15

Left Out: 65.409 $\pm$ 0.013 χ^2 /NDF: 143651.5/16

Right Out: 57.567 $\pm$ 0.015 χ^2 /NDF: 347377.8/18

Left In: 66.049 $\pm$ 0.013 χ^2 /NDF: 131110.0/14

Left: 65.712 $\pm$ 0.009 χ^2 /NDF: 275973.7/31

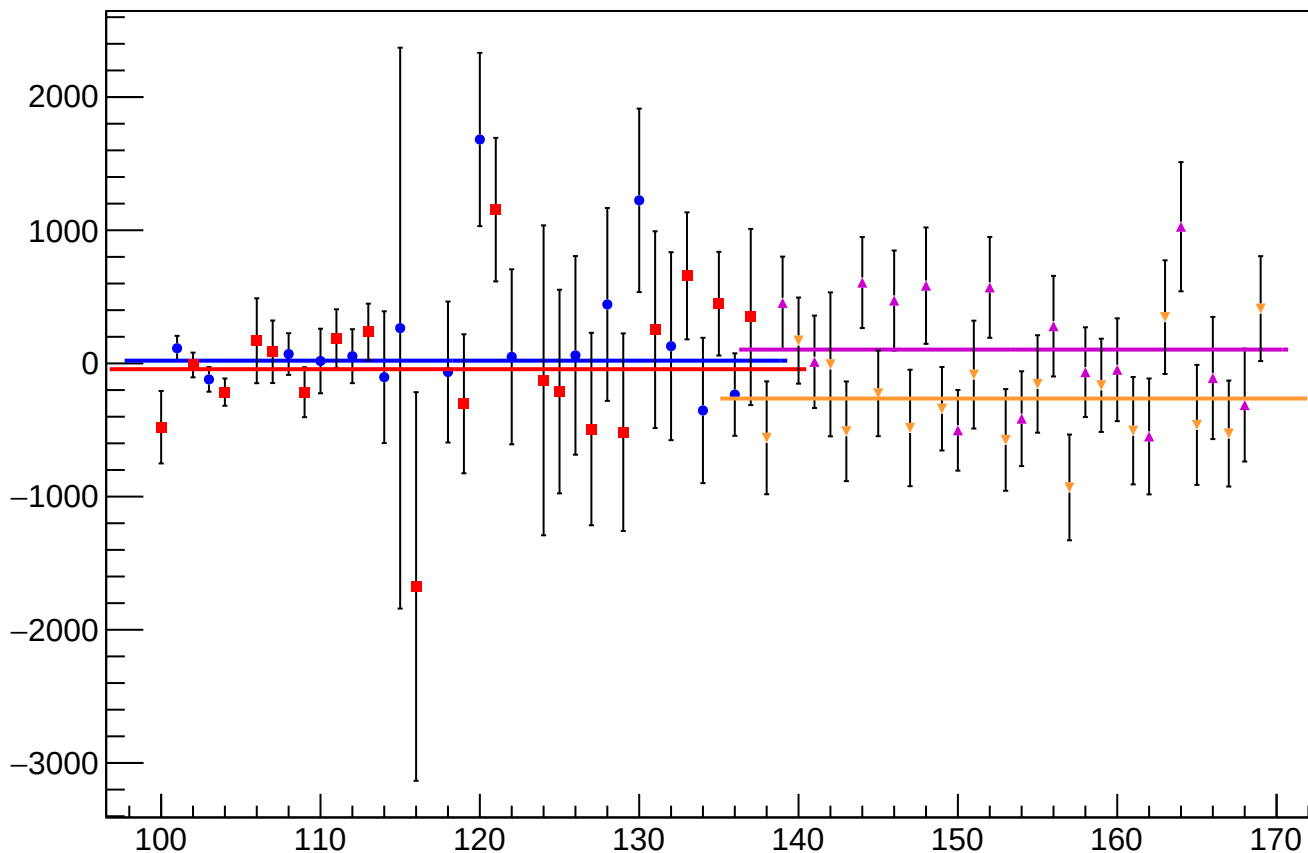
Right: 58.497 $\pm$ 0.011 χ^2 /NDF: 638326.1/34

In: 63.350 $\pm$ 0.010 χ^2 /NDF: 513435.9/30

Out: 62.207 $\pm$ 0.010 χ^2 /NDF: 647346.1/35

All: 62.751 $\pm$ 0.007 χ^2 /NDF: 1167327.4/66

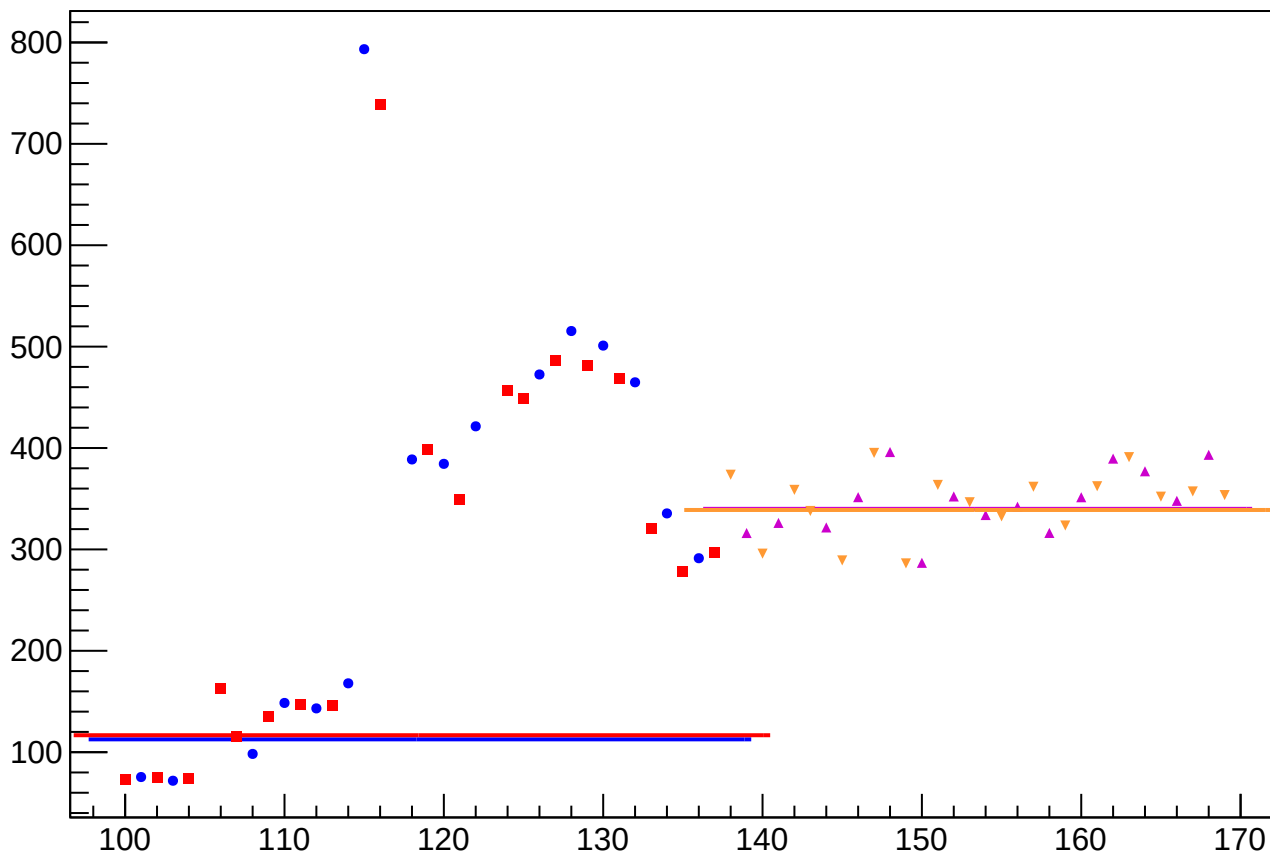
asym_sam_15_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: 20.840+/-53.585 χ^2/NDF : 14.6/15
 Left Out: -263.406+/-93.233 χ^2/NDF :13.1/16
 Right Out: -43.262+/-53.210 χ^2/NDF : 21.5/18
 Left In: 103.964+/-97.299 χ^2/NDF :20.7/14

Left: -87.558+/-67.317 χ^2/NDF : 41.3/31
 Right: -11.436+/-37.757 χ^2/NDF : 36.9/34
 In: 40.184+/-46.938 χ^2/NDF :35.9/30
 Out: -97.351+/-46.213 χ^2/NDF :38.8/35
 All: -29.652+/-32.931 χ^2/NDF : 79.1/66

asym_sam_15_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 112.668 $\pm$ 0.038 χ^2 /NDF: 5599655.1/15

Left Out: 338.900 $\pm$ 0.066 χ^2 /NDF: 253709.2/16

Right Out: 116.733 $\pm$ 0.038 χ^2 /NDF: 5141387.7/18

Left In: 340.009 $\pm$ 0.069 χ^2 /NDF: 199100.4/14

Left: 339.431 $\pm$ 0.048 χ^2 /NDF: 452945.2/31

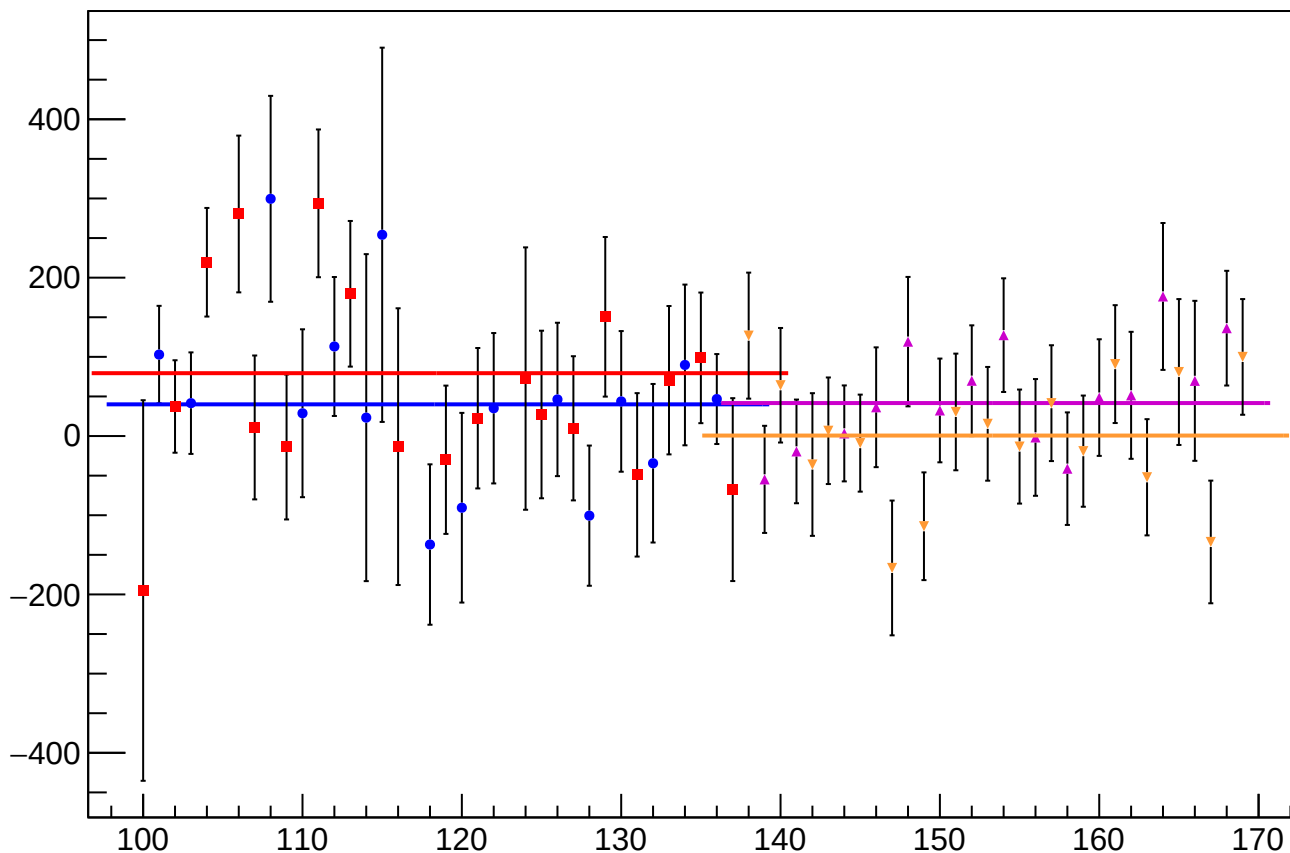
Right: 114.715 $\pm$ 0.027 χ^2 /NDF: 10746836.7/34

In: 165.574 $\pm$ 0.033 χ^2 /NDF: 14176437.0/30

Out: 171.318 $\pm$ 0.033 χ^2 /NDF: 13961471.9/35

All: 168.491 $\pm$ 0.023 χ^2 /NDF: 28153118.2/66

eigen_dit_asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 40.030 $\pm$ 22.515 χ^2 /NDF: 14.1/15

Left Out: 0.620 $\pm$ 17.923 χ^2 /NDF:18.4/16

Right Out: 79.378 $\pm$ 21.577 χ^2 /NDF: 24.8/18

Left In: 41.653 $\pm$ 18.873 χ^2 /NDF:11.4/14

Left: 20.078 $\pm$ 12.996 χ^2 /NDF: 32.3/31

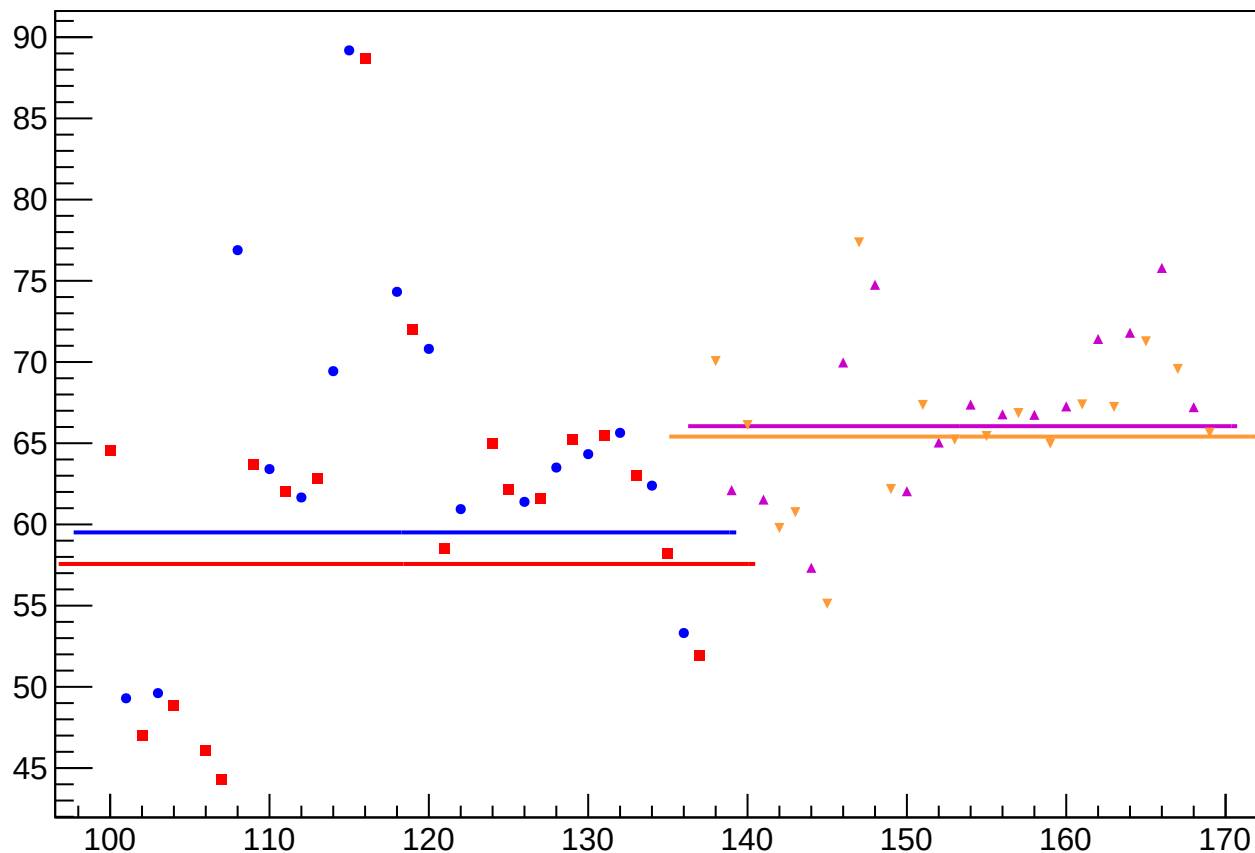
Right: 60.540 $\pm$ 15.578 χ^2 /NDF: 40.5/34

In: 40.983 $\pm$ 14.463 χ^2 /NDF:25.6/30

Out: 32.774 $\pm$ 13.787 χ^2 /NDF:51.1/35

All: 36.682 $\pm$ 9.979 χ^2 /NDF: 76.9/66

eigen_dit_asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 59.509 $\pm$ 0.016 χ^2 /NDF: 283190.4/15

Left Out: 65.409 $\pm$ 0.013 χ^2 /NDF: 143654.0/16

Right Out: 57.567 $\pm$ 0.015 χ^2 /NDF: 347374.2/18

Left In: 66.050 $\pm$ 0.013 χ^2 /NDF: 131106.0/14

Left: 65.713 $\pm$ 0.009 χ^2 /NDF: 275972.3/31

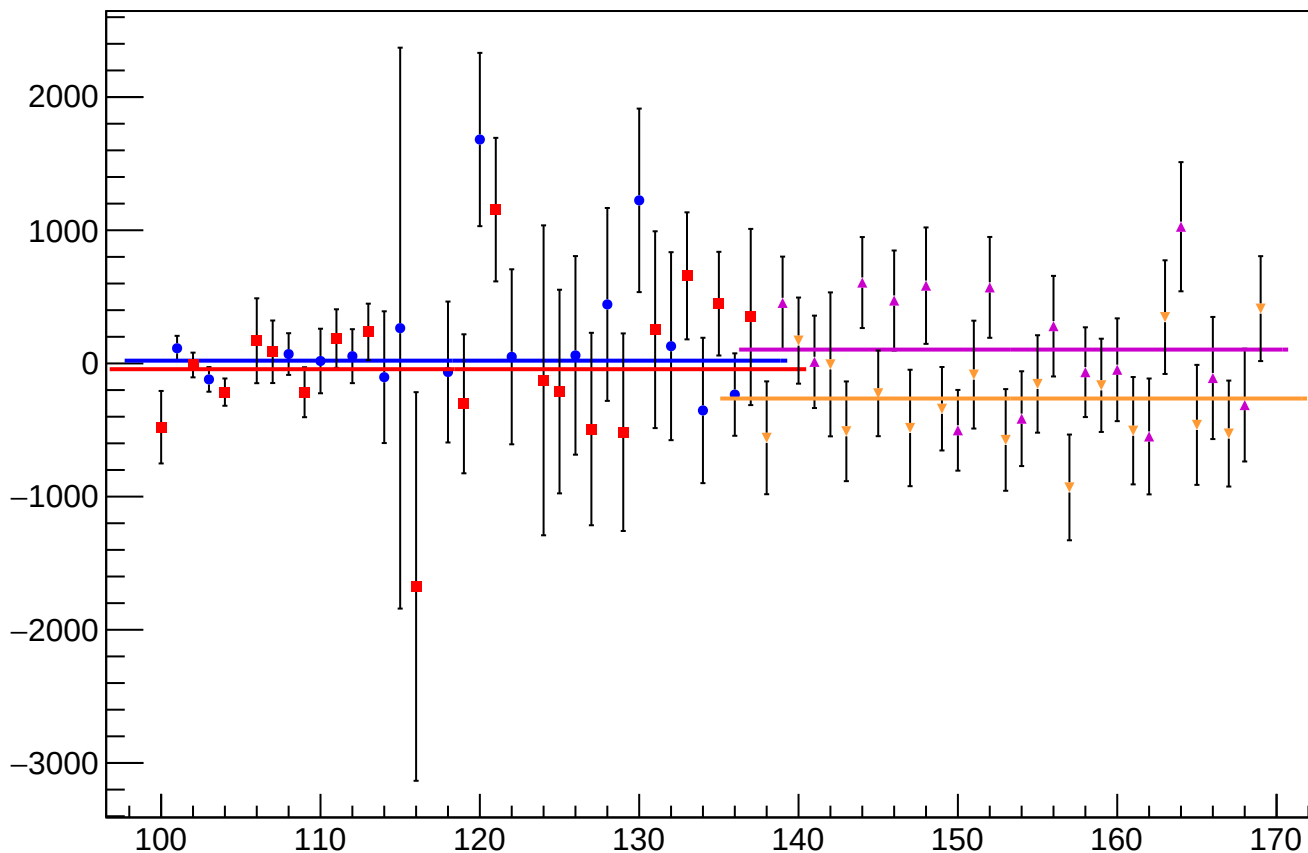
Right: 58.496 $\pm$ 0.011 χ^2 /NDF: 638320.1/34

In: 63.350 $\pm$ 0.010 χ^2 /NDF: 513436.5/30

Out: 62.207 $\pm$ 0.010 χ^2 /NDF: 647352.5/35

All: 62.751 $\pm$ 0.007 χ^2 /NDF: 1167334.5/66

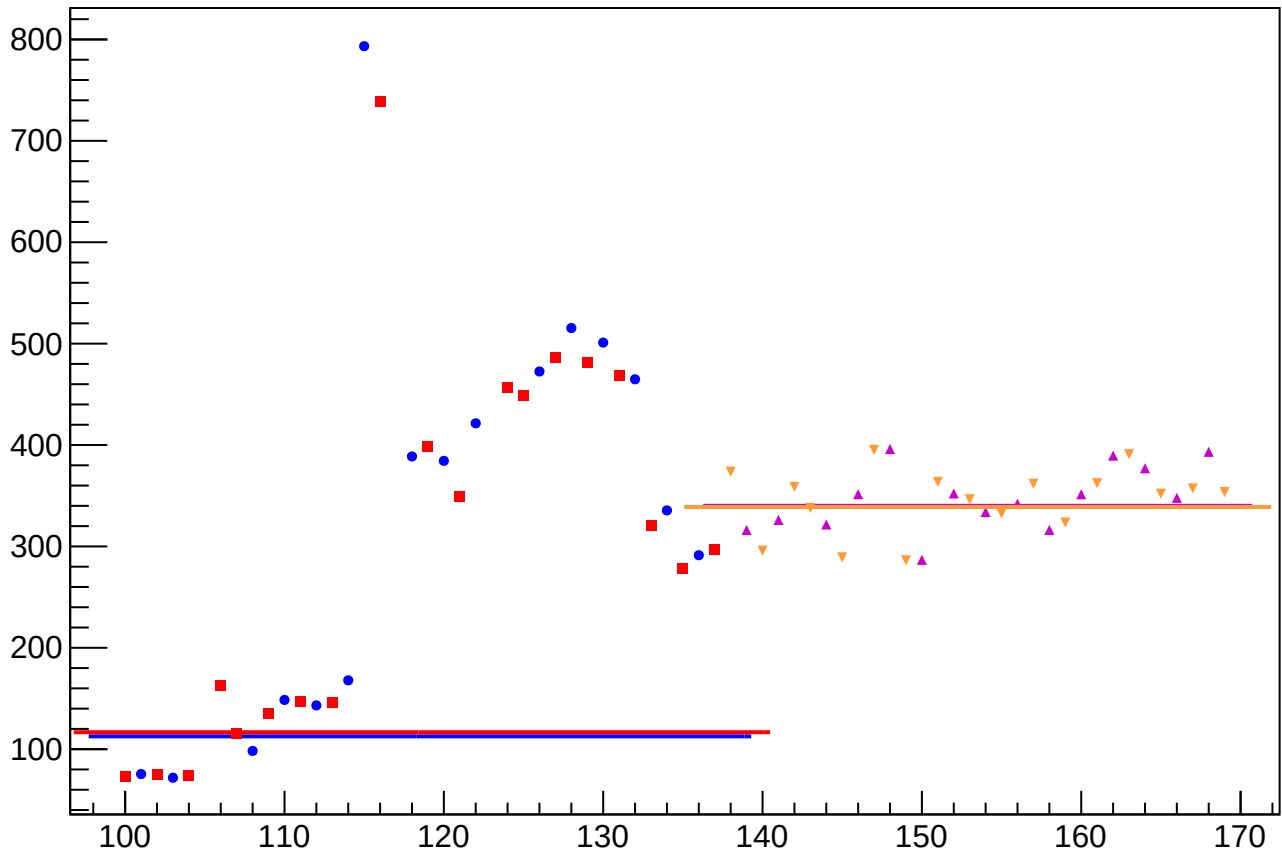
asym_sam_15_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 20.840+/-53.585 χ^2/NDF : 14.6/15
 Left Out: -263.406+/-93.233 χ^2/NDF :13.1/16
 Right Out: -43.262+/-53.210 χ^2/NDF : 21.5/18
 Left In: 103.964+/-97.299 χ^2/NDF :20.7/14

Left: -87.558+/-67.317 χ^2/NDF : 41.3/31
 Right: -11.436+/-37.757 χ^2/NDF : 36.9/34
 In: 40.184+/-46.938 χ^2/NDF :35.9/30
 Out: -97.350+/-46.213 χ^2/NDF :38.8/35
 All: -29.652+/-32.931 χ^2/NDF : 79.1/66

asym_sam_15_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 112.668+/-0.038 χ^2/NDF : 5599653.6/15

Left Out: 338.901+/-0.066 χ^2/NDF : 253707.6/16

Right Out: 116.732+/-0.038 χ^2/NDF : 5141390.3/18

Left In: 340.010+/-0.069 χ^2/NDF : 199095.5/14

Left: 339.432+/-0.048 χ^2/NDF : 452938.6/31

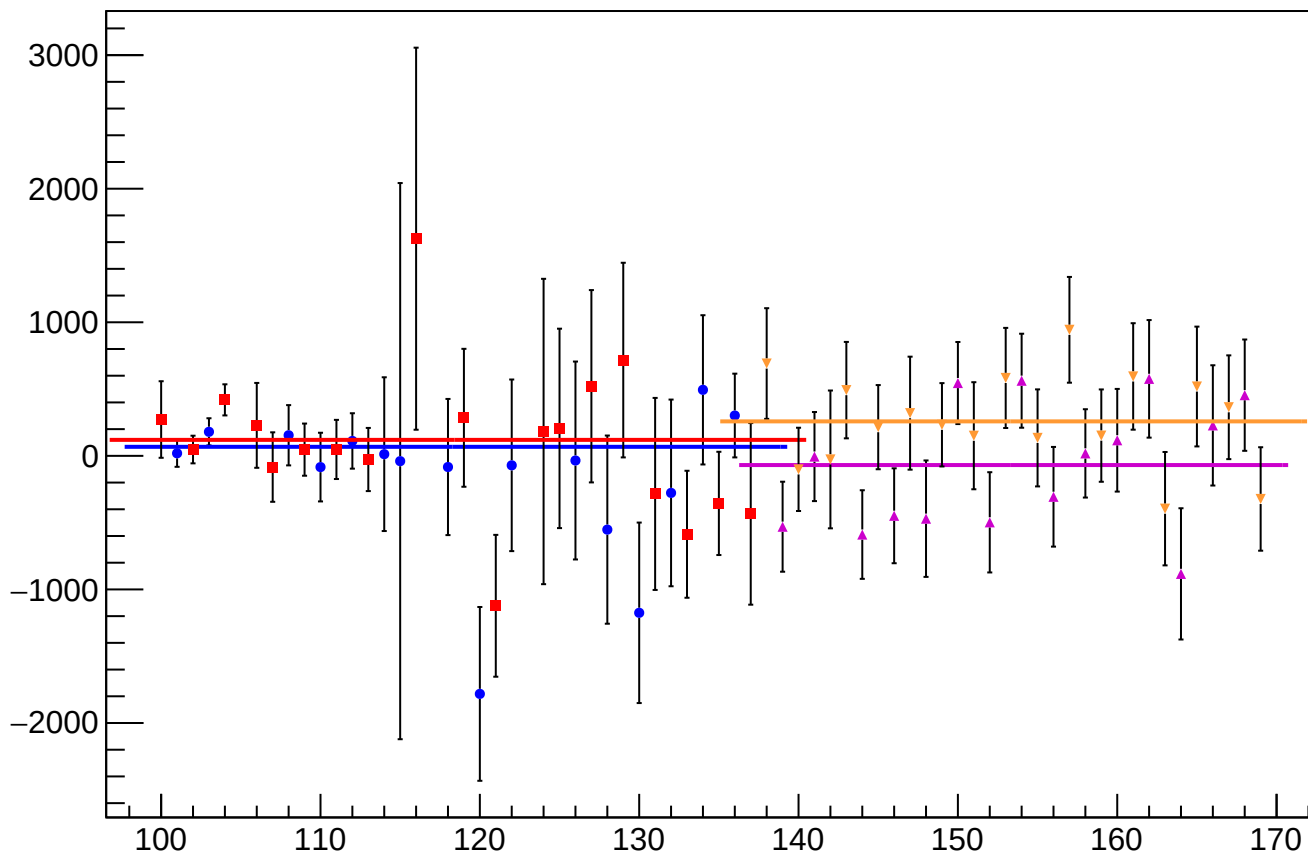
Right: 114.714+/-0.027 χ^2/NDF : 10746837.6/34

In: 165.574+/-0.033 χ^2/NDF : 14176477.0/30

Out: 171.318+/-0.033 χ^2/NDF : 13961540.1/35

All: 168.490+/-0.023 χ^2/NDF : 28153225.6/60

asym_sam_15_avg_mean vs Slug, Sign Corrected



Right In: 67.621+/-59.169 χ^2/NDF : 15.8/15

Left Out: 258.096+/-91.560 χ^2/NDF :13.0/16

Right Out: 119.635+/-57.941 χ^2/NDF : 21.1/18

Left In: -68.893+/-95.807 χ^2/NDF :22.5/14

Left: 102.010+/-66.193 χ^2/NDF : 41.6/31

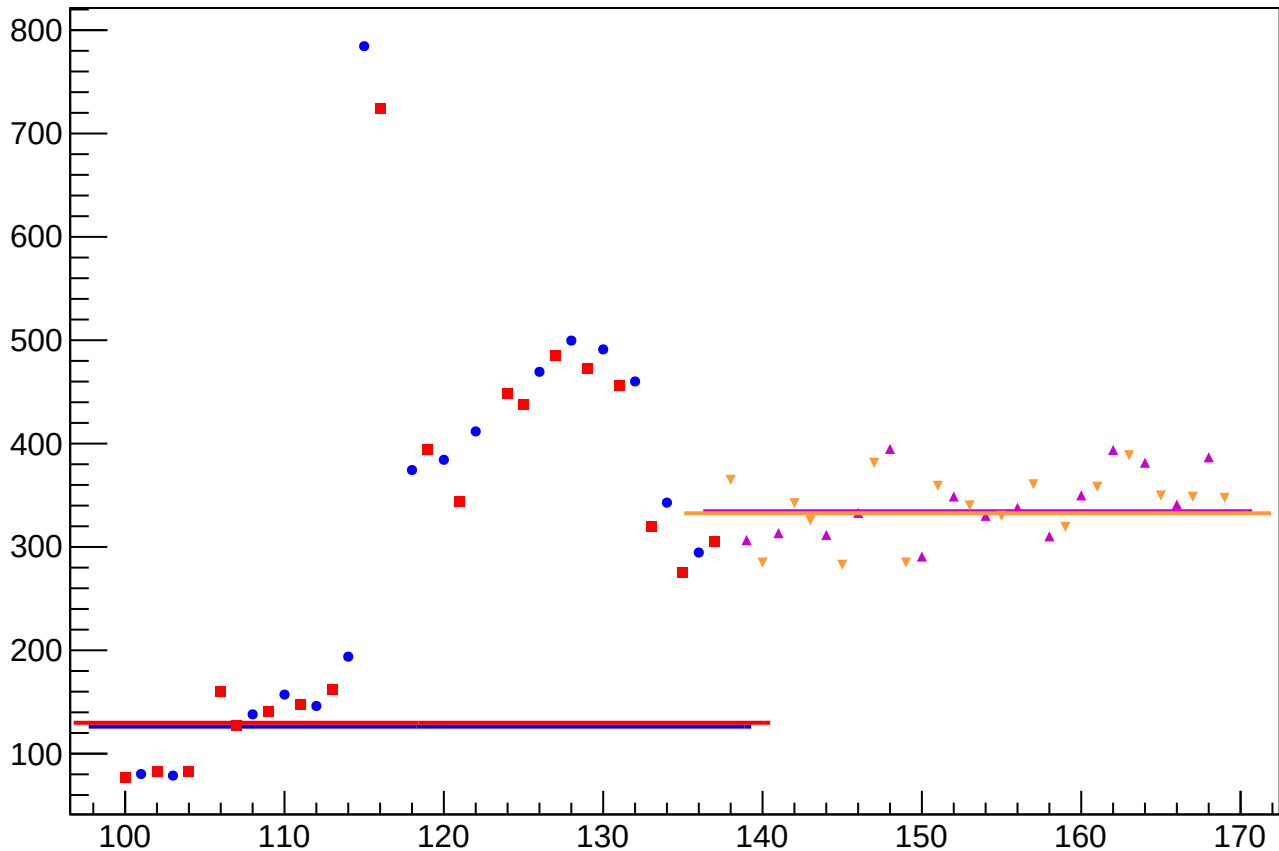
Right: 94.173+/-41.398 χ^2/NDF : 37.3/34

In: 29.929+/-50.342 χ^2/NDF :39.8/30

Out: 159.228+/-48.961 χ^2/NDF :35.7/35

All: 96.377+/-35.099 χ^2/NDF : 78.9/66

asym_sam_15_avg_rms vs Slug, Sign Corrected



Right In: 126.154 $\pm$ 0.042 χ^2 /NDF: 5220128.2/15

Left Out: 332.565 $\pm$ 0.065 χ^2 /NDF: 258815.0/16

Right Out: 129.914 $\pm$ 0.041 χ^2 /NDF: 4647677.8/18

Left In: 334.581 $\pm$ 0.068 χ^2 /NDF: 214089.0/14

Left: 333.527 $\pm$ 0.047 χ^2 /NDF: 473367.1/31

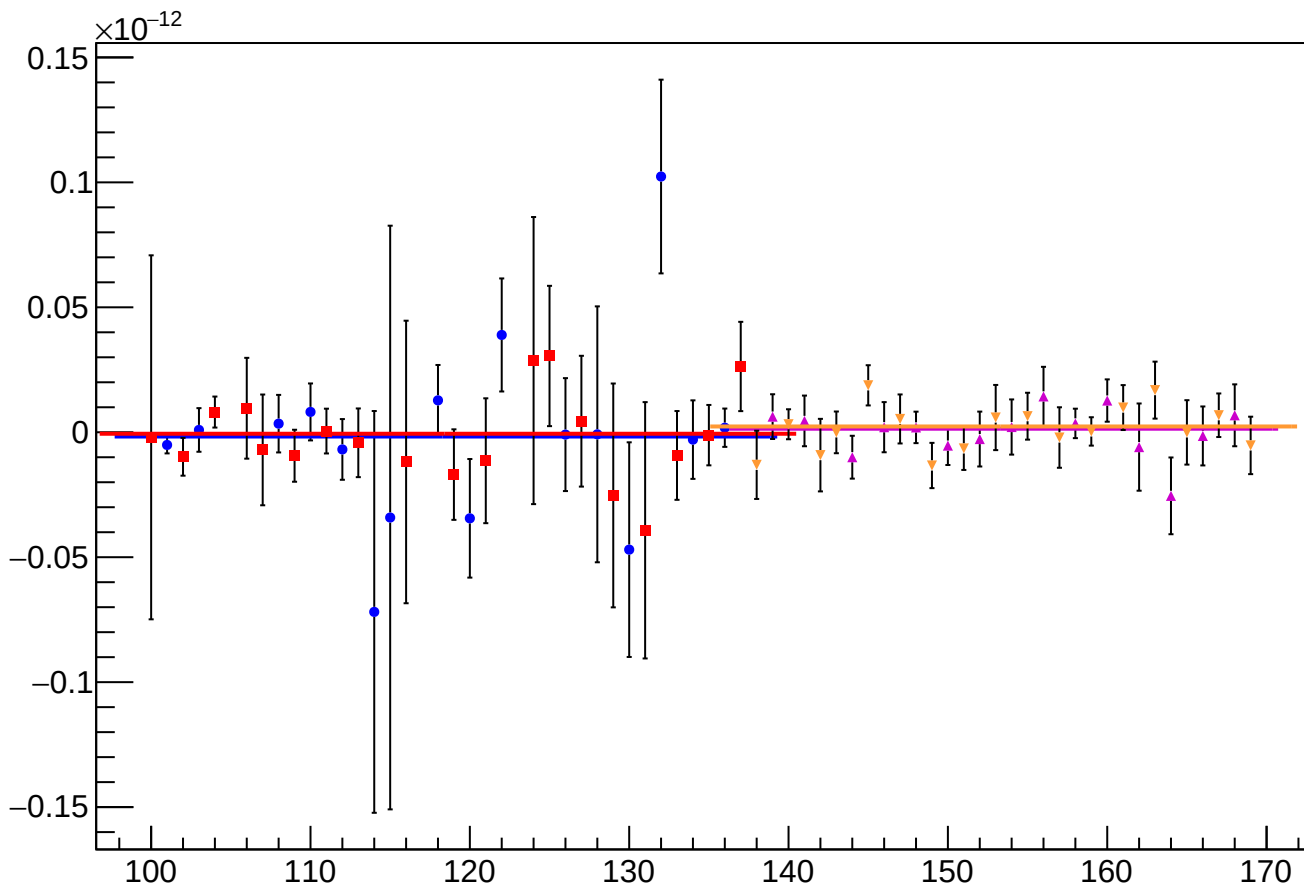
Right: 128.074 $\pm$ 0.029 χ^2 /NDF: 9871930.1/34

In: 183.701 $\pm$ 0.036 χ^2 /NDF: 12286281.9/30

Out: 187.863 $\pm$ 0.035 χ^2 /NDF: 11902355.5/35

All: 185.840 $\pm$ 0.025 χ^2 /NDF: 24195660.9/66

asym_sam_15_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 17.8/15

Left Out: 0.000+/-0.000 χ^2 /NDF:13.9/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 10.5/18

Left In: 0.000+/-0.000 χ^2 /NDF:9.6/14

Left: 0.000+/-0.000 χ^2 /NDF: 23.6/31

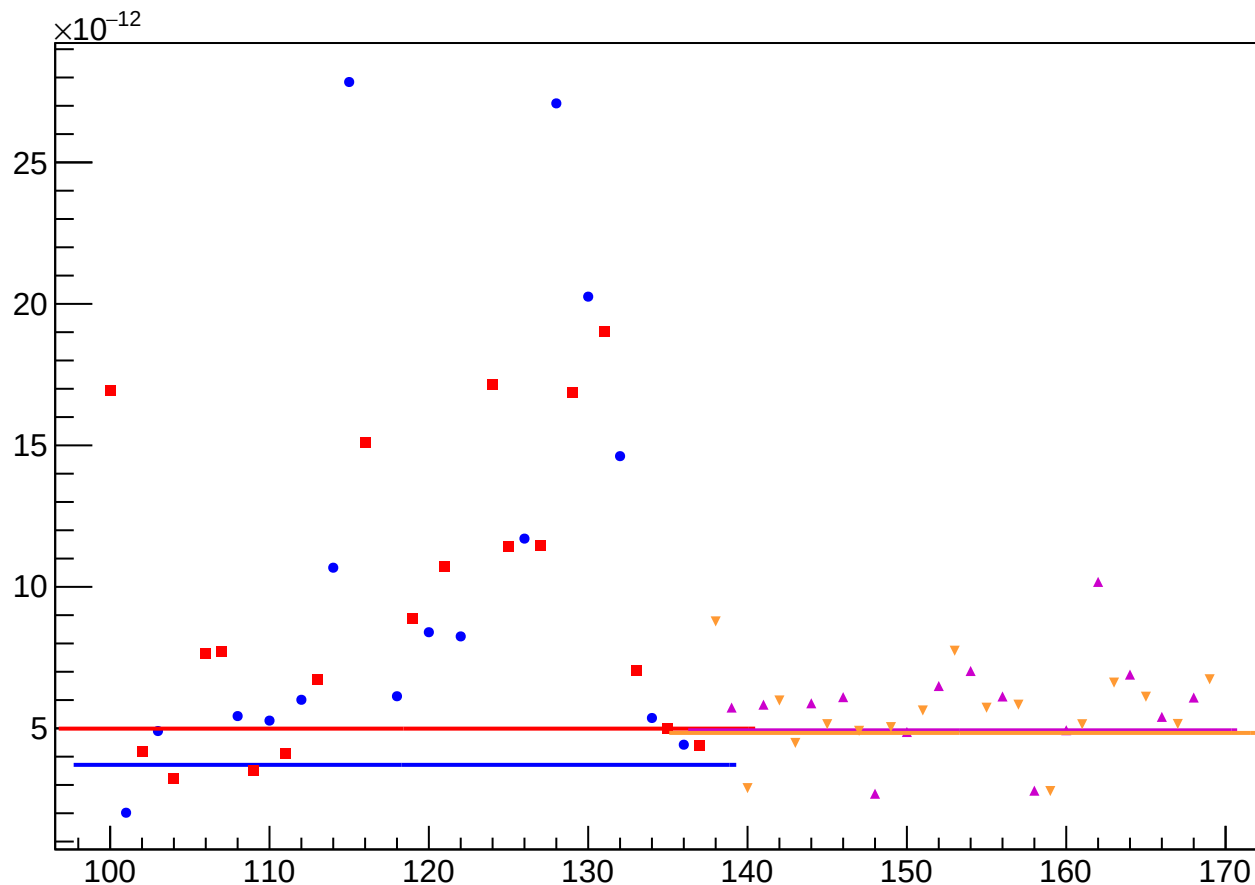
Right: -0.000+/-0.000 χ^2 /NDF: 28.4/34

In: -0.000+/-0.000 χ^2 /NDF:28.2/30

Out: 0.000+/-0.000 χ^2 /NDF:25.0/35

All: 0.000+/-0.000 χ^2 /NDF: 53.5/66

asym_sam_15_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2172466.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :935603.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1295374.6/18

Left In: 0.000+/-0.000 χ^2/NDF :966981.6/14

Left: 0.000+/-0.000 χ^2/NDF : 1904171.6/31

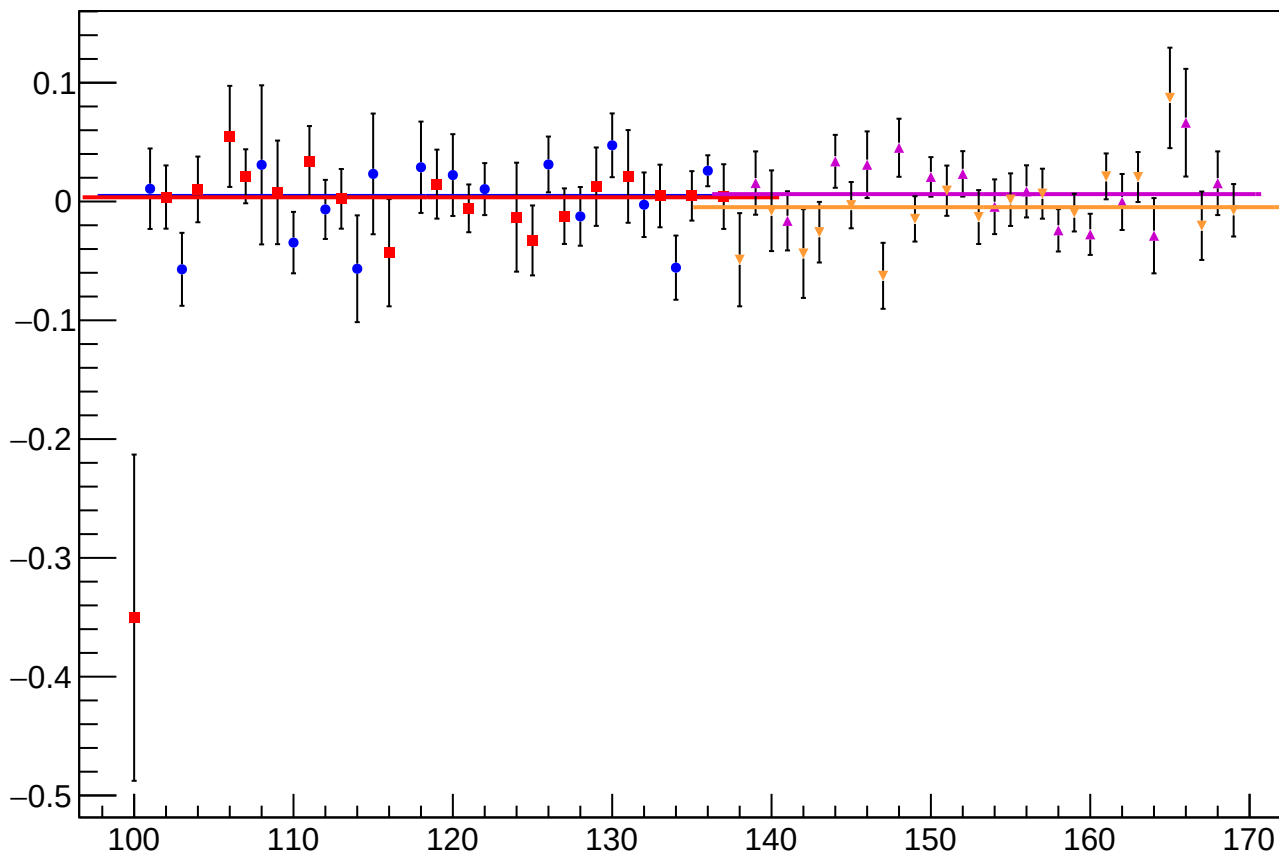
Right: 0.000+/-0.000 χ^2/NDF : 3664320.8/34

In: 0.000+/-0.000 χ^2/NDF :3385328.5/30

Out: 0.000+/-0.000 χ^2/NDF :2234021.9/35

All: 0.000+/-0.000 χ^2/NDF : 5709087.9/66

asym_sam_15_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Left: 0.001 $\pm$ 0.004 χ^2/NDF : 36.3/31

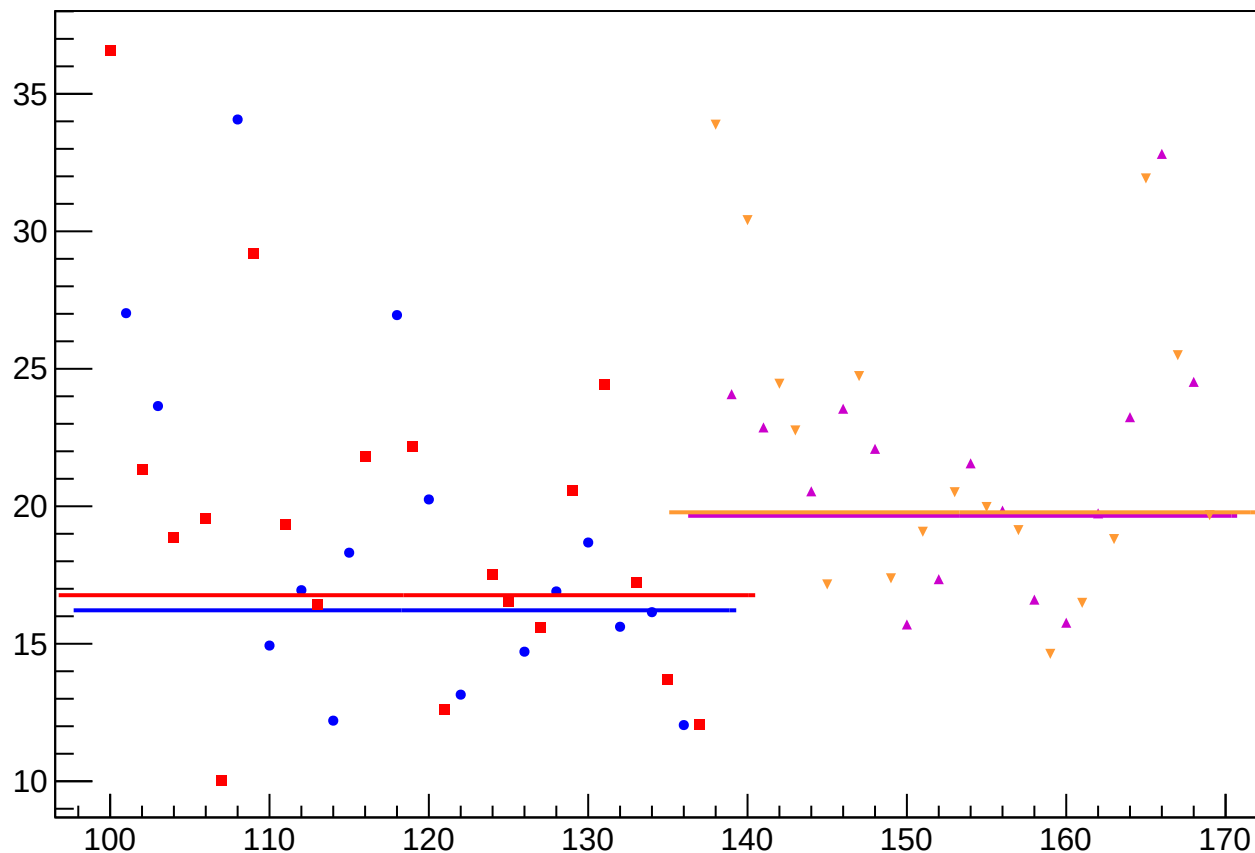
Right: 0.004 $\pm$ 0.005 χ^2/NDF : 35.1/34

In: 0.006 $\pm$ 0.004 χ^2/NDF : 39.0/30

Out: -0.001 $\pm$ 0.004 χ^2/NDF : 31.5/35

All: 0.002 $\pm$ 0.003 χ^2/NDF : 71.7/66

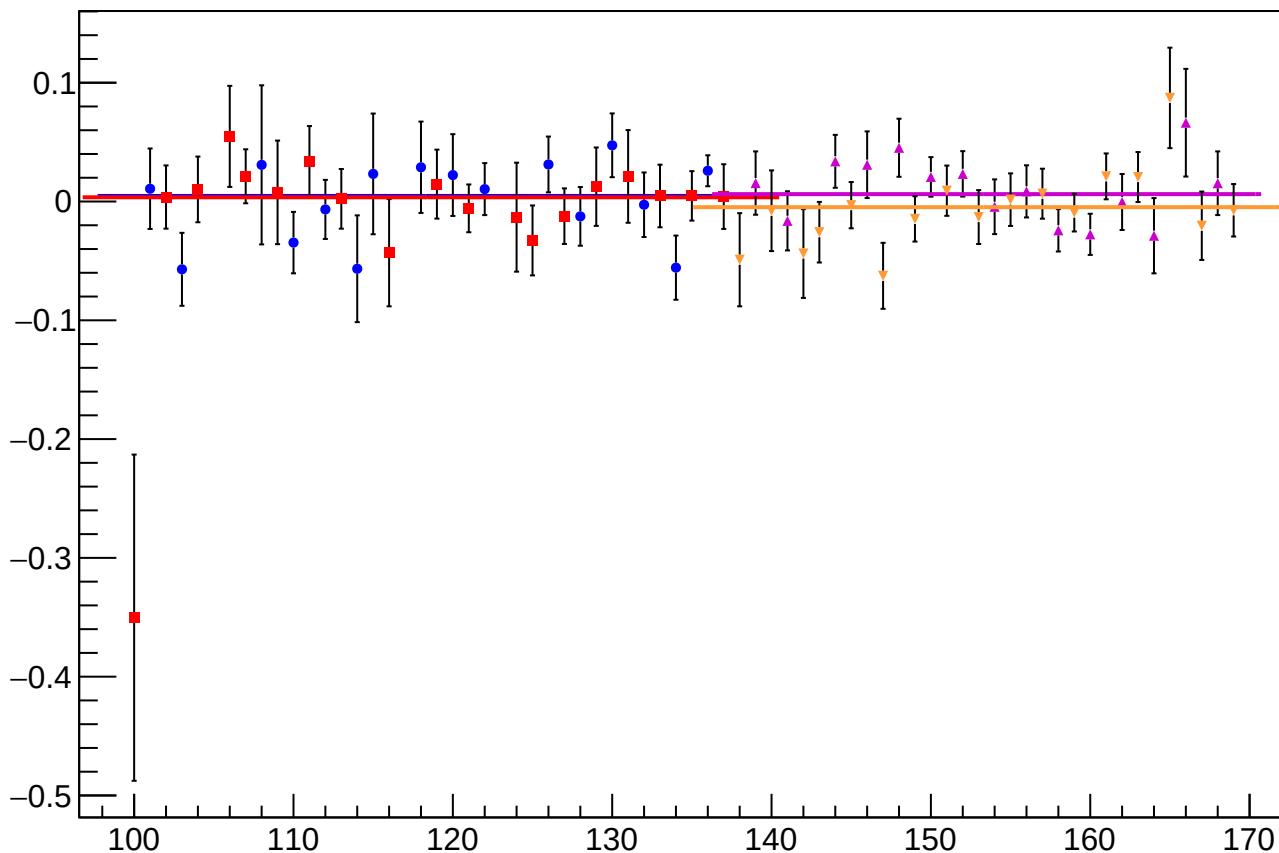
asym_sam_15_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.217+/-0.005 χ^2/NDF : 943864.9/15
 Left Out: 19.781+/-0.004 χ^2/NDF : 1166841.9/16
 Right Out: 16.766+/-0.005 χ^2/NDF : 866715.7/18
 Left In: 19.654+/-0.004 χ^2/NDF : 725467.3/14

Left: 19.720+/-0.003 χ^2/NDF : 1892797.6/31
 Right: 16.489+/-0.003 χ^2/NDF : 1817524.0/34
 In: 18.139+/-0.003 χ^2/NDF : 1976053.5/30
 Out: 18.519+/-0.003 χ^2/NDF : 2274303.6/35
 All: 18.332+/-0.002 χ^2/NDF : 4258091.9/66

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.007 χ^2 /NDF: 21.5/15

Left Out: -0.005 $\pm$ 0.006 χ^2 /NDF:17.0/16

Right Out: 0.004 $\pm$ 0.007 χ^2 /NDF: 13.6/18

Left In: 0.006 $\pm$ 0.006 χ^2 /NDF:17.5/14

Left: 0.001 $\pm$ 0.004 χ^2 /NDF: 36.3/31

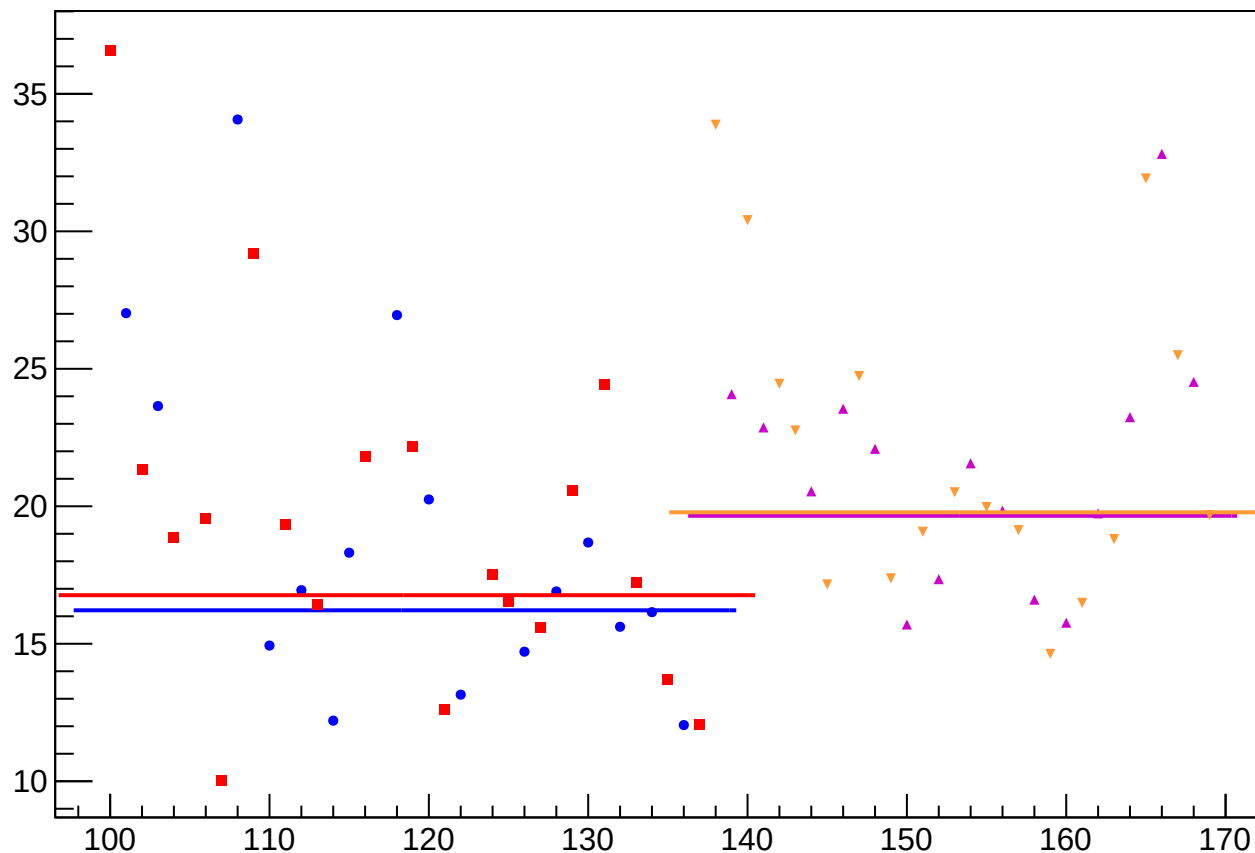
Right: 0.004 $\pm$ 0.005 χ^2 /NDF: 35.1/34

In: 0.006 $\pm$ 0.004 χ^2 /NDF:39.0/30

Out: -0.001 $\pm$ 0.004 χ^2 /NDF:31.5/35

All: 0.002 $\pm$ 0.003 χ^2 /NDF: 71.7/66

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.217+/-0.005 χ^2/NDF : 943864.9/15

Left Out: 19.781+/-0.004 χ^2/NDF : 1166841.9/16

Right Out: 16.766+/-0.005 χ^2/NDF : 866715.7/18

Left In: 19.654+/-0.004 χ^2/NDF : 725467.3/14

Left: 19.720+/-0.003 χ^2/NDF : 1892797.6/31

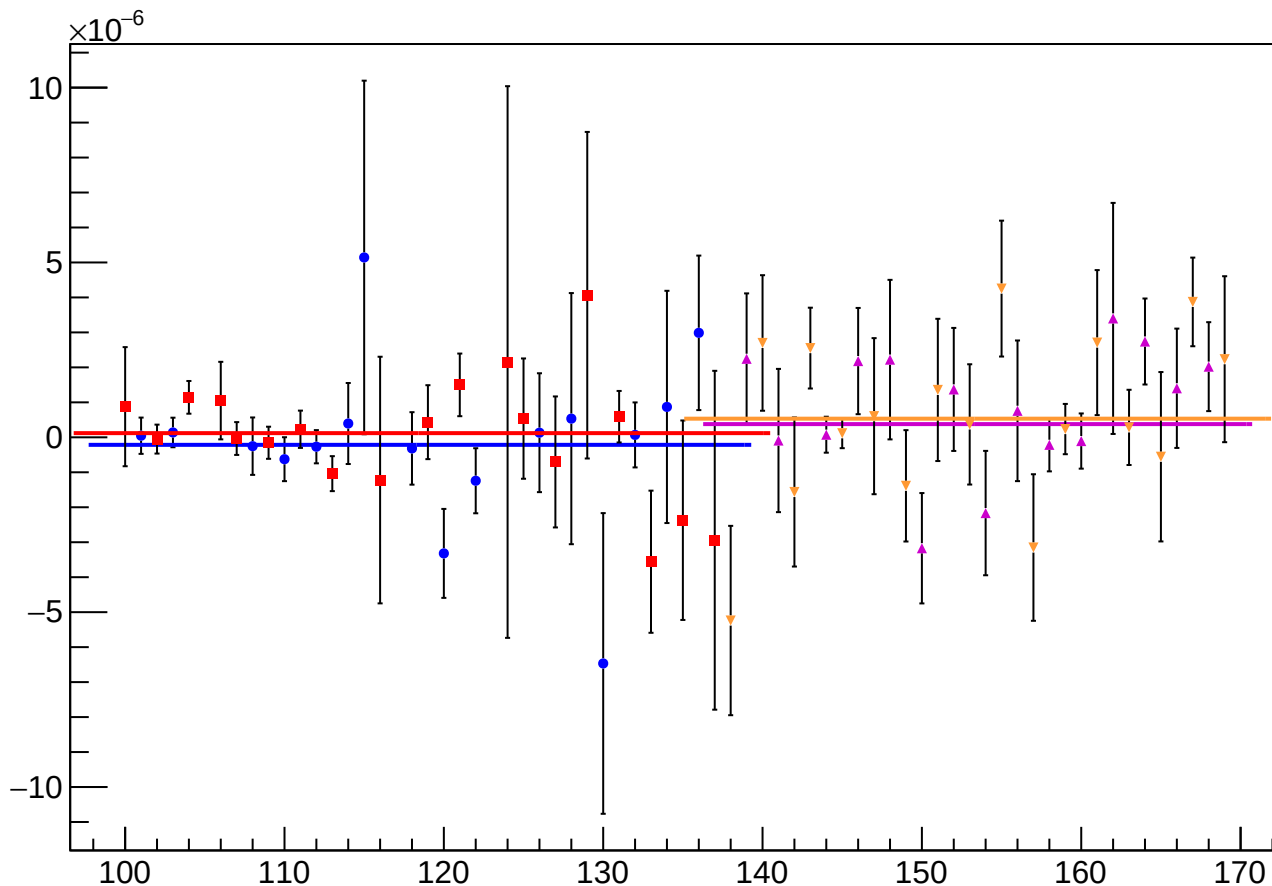
Right: 16.489+/-0.003 χ^2/NDF : 1817524.0/34

In: 18.139+/-0.003 χ^2/NDF : 1976053.5/30

Out: 18.519+/-0.003 χ^2/NDF : 2274303.6/35

All: 18.332+/-0.002 χ^2/NDF : 4258091.9/66

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.5/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 28.1/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 20.2/18

Left In: 0.000 ± 0.000 χ^2/NDF : 18.5/14

Left: 0.000 ± 0.000 χ^2/NDF : 46.7/31

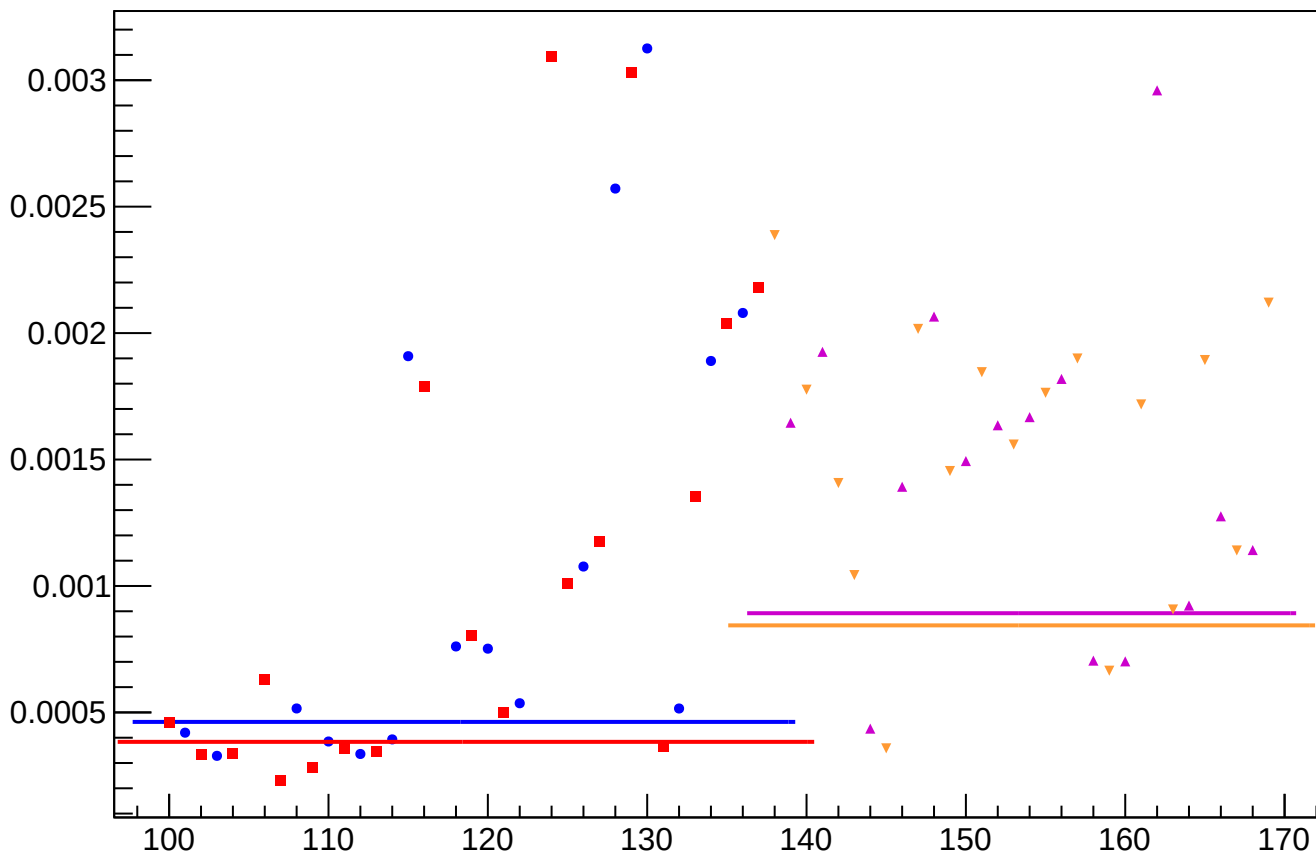
Right: -0.000 ± 0.000 χ^2/NDF : 36.2/34

In: -0.000 ± 0.000 χ^2/NDF : 35.6/30

Out: 0.000 ± 0.000 χ^2/NDF : 49.9/35

All: 0.000 ± 0.000 χ^2/NDF : 86.8/66

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 4015939.2/15

Left Out: 0.001+/-0.000 χ^2/NDF :8094923.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4058129.5/18

Left In: 0.001+/-0.000 χ^2/NDF :5807174.6/14

Left: 0.001+/-0.000 χ^2/NDF : 13929607.6/31

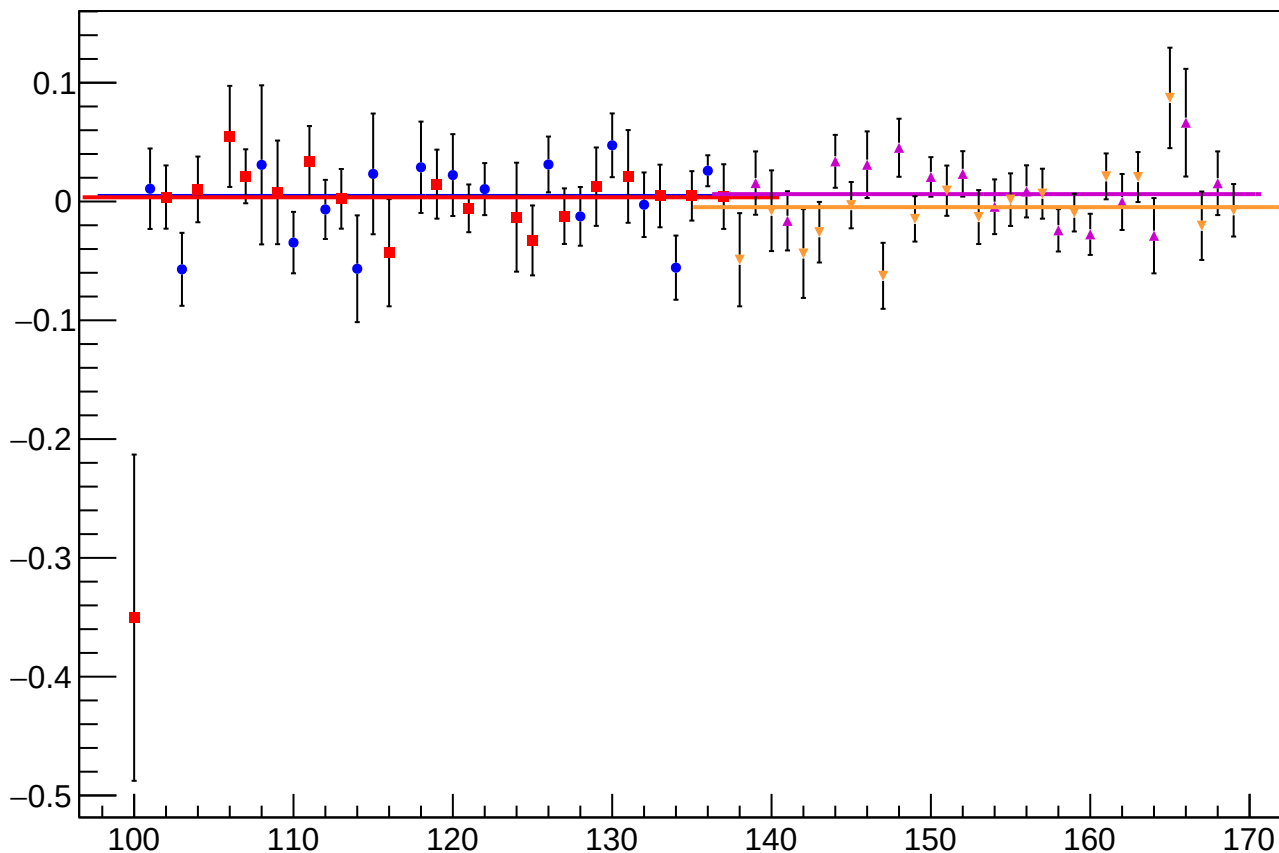
Right: 0.000+/-0.000 χ^2/NDF : 8244700.4/34

In: 0.001+/-0.000 χ^2/NDF :12625604.4/30

Out: 0.001+/-0.000 χ^2/NDF :16026212.3/35

All: 0.001+/-0.000 χ^2/NDF : 29000709.7/66

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.007 χ^2 /NDF: 21.5/15

Left Out: -0.005 $\pm$ 0.006 χ^2 /NDF:17.0/16

Right Out: 0.004 $\pm$ 0.007 χ^2 /NDF: 13.6/18

Left In: 0.006 $\pm$ 0.006 χ^2 /NDF:17.5/14

Left: 0.001 $\pm$ 0.004 χ^2 /NDF: 36.3/31

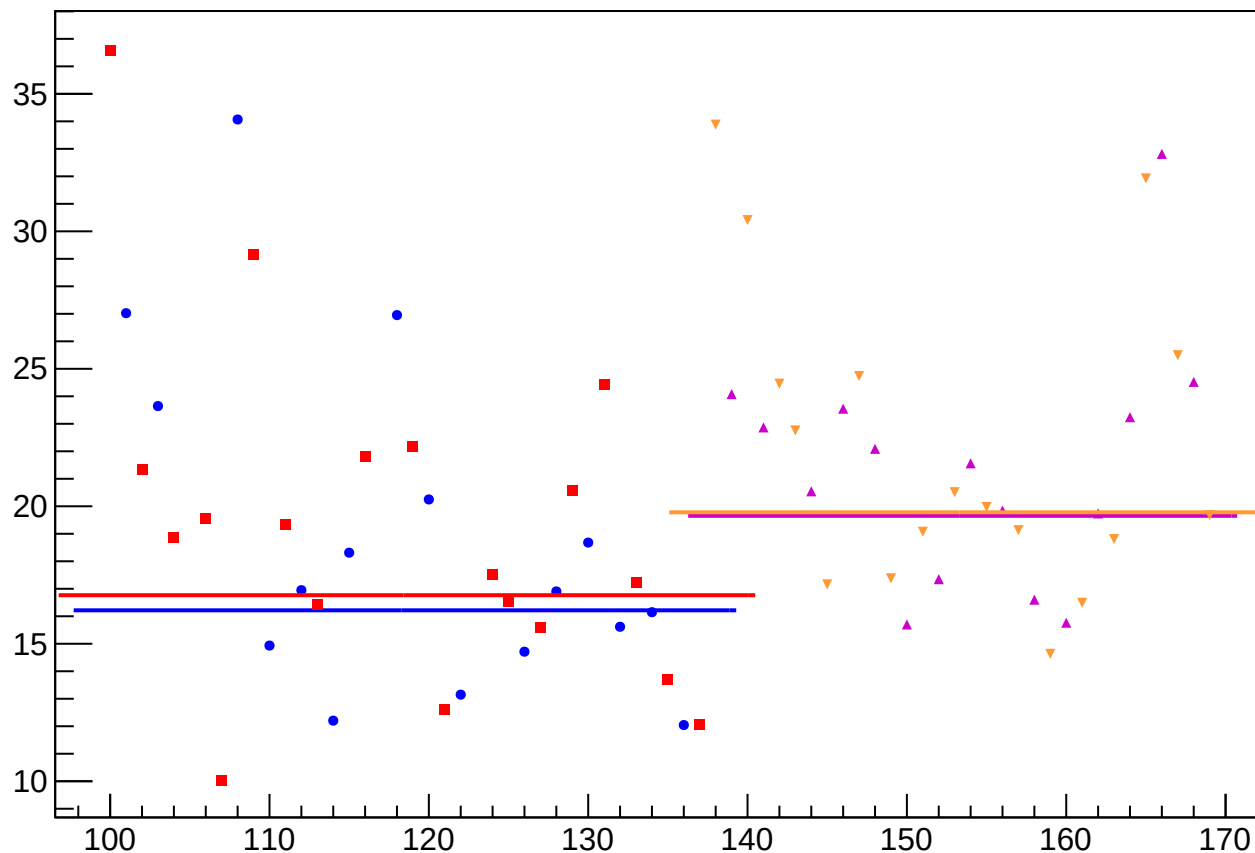
Right: 0.004 $\pm$ 0.005 χ^2 /NDF: 35.1/34

In: 0.006 $\pm$ 0.004 χ^2 /NDF:39.0/30

Out: -0.001 $\pm$ 0.004 χ^2 /NDF:31.5/35

All: 0.002 $\pm$ 0.003 χ^2 /NDF: 71.7/66

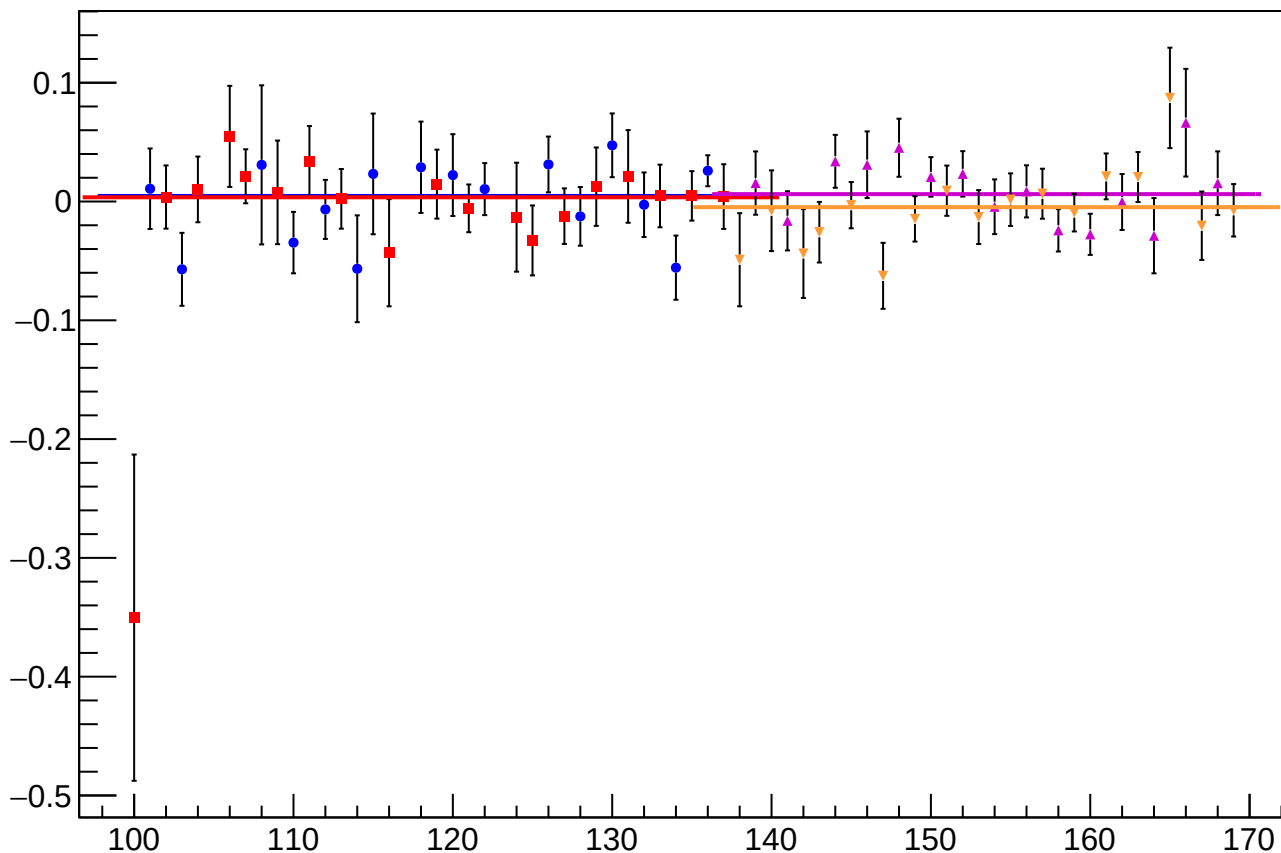
asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.216 $\pm$ 0.005 χ^2/NDF : 943830.6/15
 Left Out: 19.781 $\pm$ 0.004 χ^2/NDF : 1166953.0/16
 Right Out: 16.766 $\pm$ 0.005 χ^2/NDF : 866705.3/18
 Left In: 19.654 $\pm$ 0.004 χ^2/NDF : 725565.5/14

Left: 19.720 $\pm$ 0.003 χ^2/NDF : 1893007.9/31
 Right: 16.489 $\pm$ 0.003 χ^2/NDF : 1817478.6/34
 In: 18.139 $\pm$ 0.003 χ^2/NDF : 1976137.8/30
 Out: 18.519 $\pm$ 0.003 χ^2/NDF : 2274446.5/35
 All: 18.332 $\pm$ 0.002 χ^2/NDF : 4258321.3/66

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.007 χ^2 /NDF: 21.5/15

Left Out: -0.005 $\pm$ 0.006 χ^2 /NDF:17.0/16

Right Out: 0.004 $\pm$ 0.007 χ^2 /NDF: 13.6/18

Left In: 0.006 $\pm$ 0.006 χ^2 /NDF:17.5/14

Left: 0.001 $\pm$ 0.004 χ^2 /NDF: 36.3/31

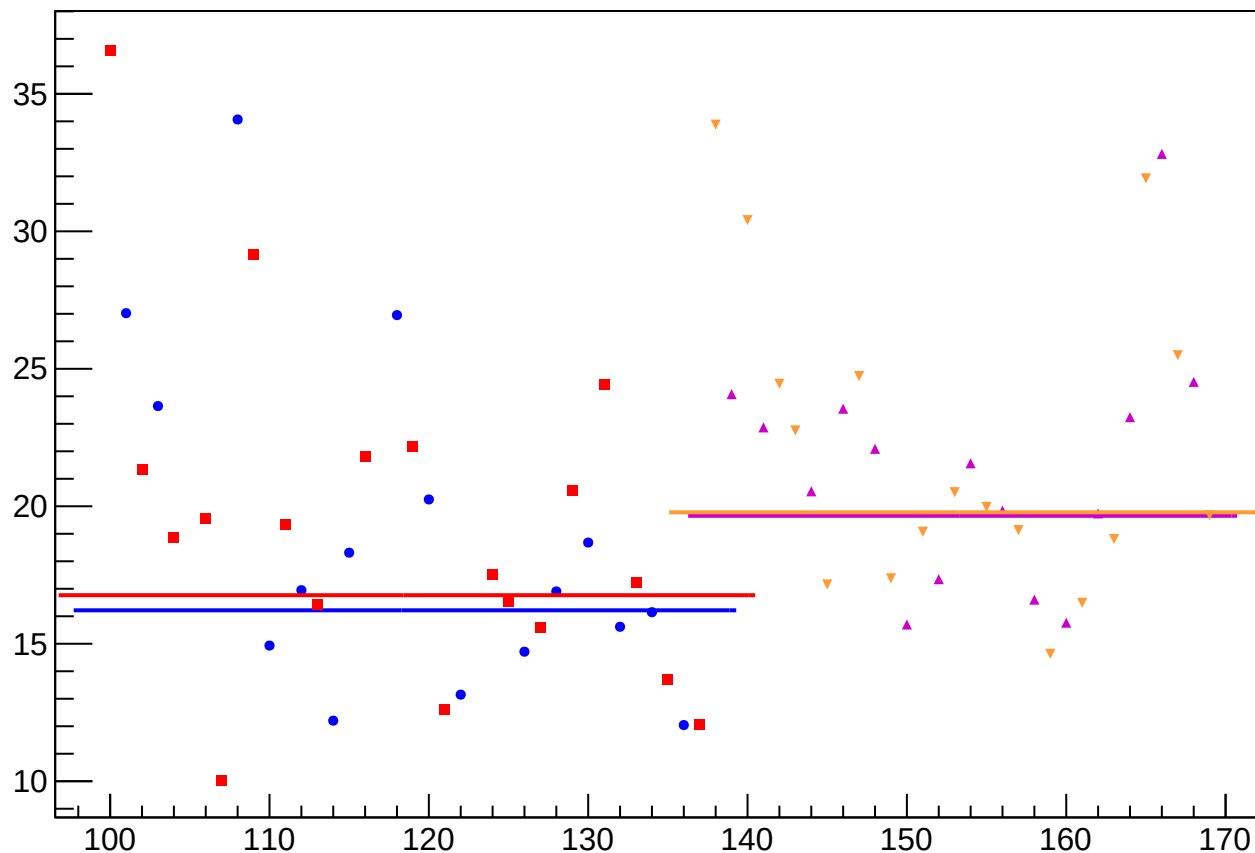
Right: 0.004 $\pm$ 0.005 χ^2 /NDF: 35.1/34

In: 0.006 $\pm$ 0.004 χ^2 /NDF:39.0/30

Out: -0.001 $\pm$ 0.004 χ^2 /NDF:31.5/35

All: 0.002 $\pm$ 0.003 χ^2 /NDF: 71.7/66

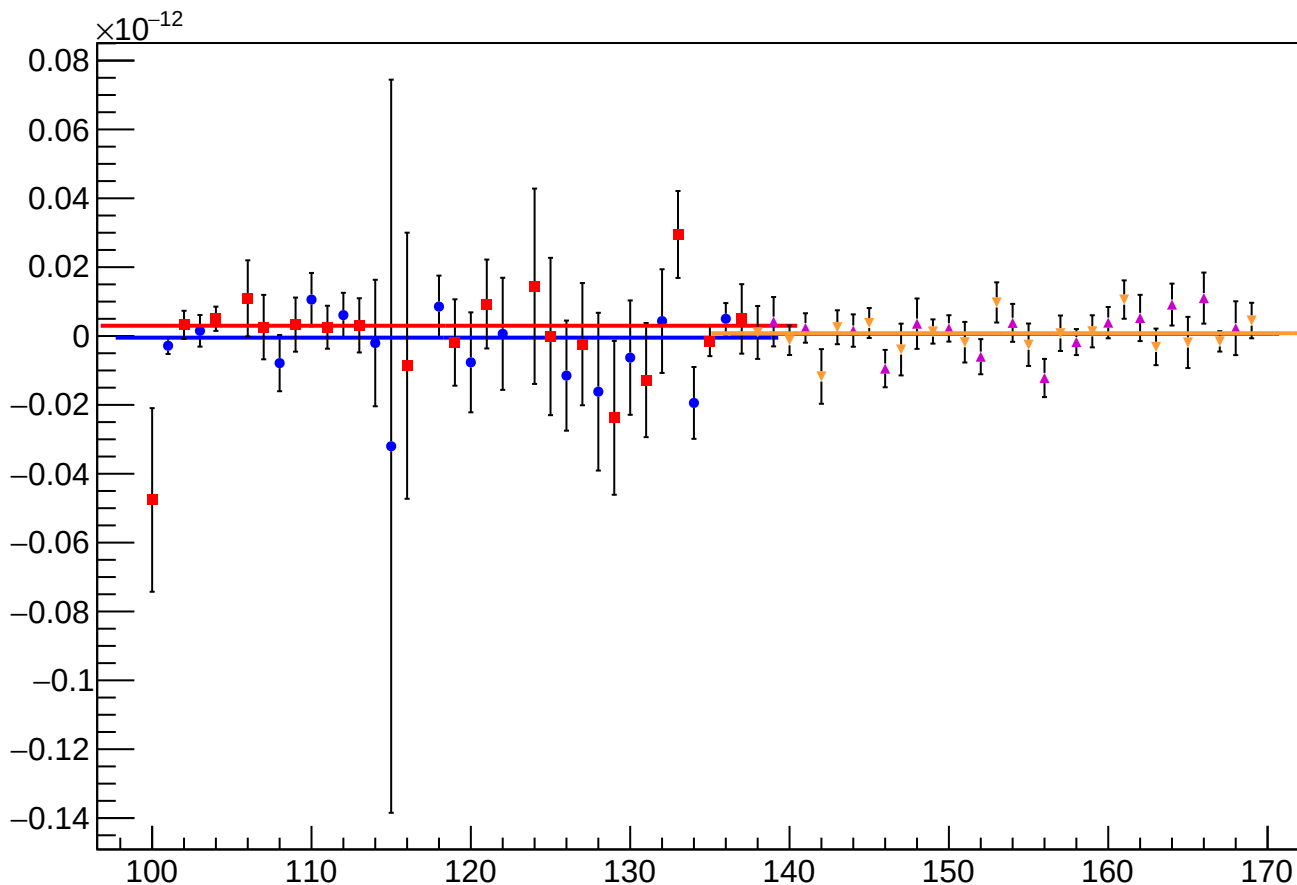
asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 16.216 $\pm$ 0.005 χ^2 /NDF: 943830.6/15
 Left Out: 19.781 $\pm$ 0.004 χ^2 /NDF:1166953.0/16
 Right Out: 16.766 $\pm$ 0.005 χ^2 /NDF: 866705.3/18
 Left In: 19.654 $\pm$ 0.004 χ^2 /NDF:725565.5/14

Left: 19.720 $\pm$ 0.003 χ^2 /NDF: 1893007.9/31
 Right: 16.489 $\pm$ 0.003 χ^2 /NDF: 1817478.6/34
 In: 18.139 $\pm$ 0.003 χ^2 /NDF:1976137.8/30
 Out: 18.519 $\pm$ 0.003 χ^2 /NDF:2274446.5/35
 All: 18.332 $\pm$ 0.002 χ^2 /NDF: 4258321.3/66

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 12.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 11.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 13.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 16.9/14

Left: 0.000+/-0.000 χ^2/NDF : 28.5/31

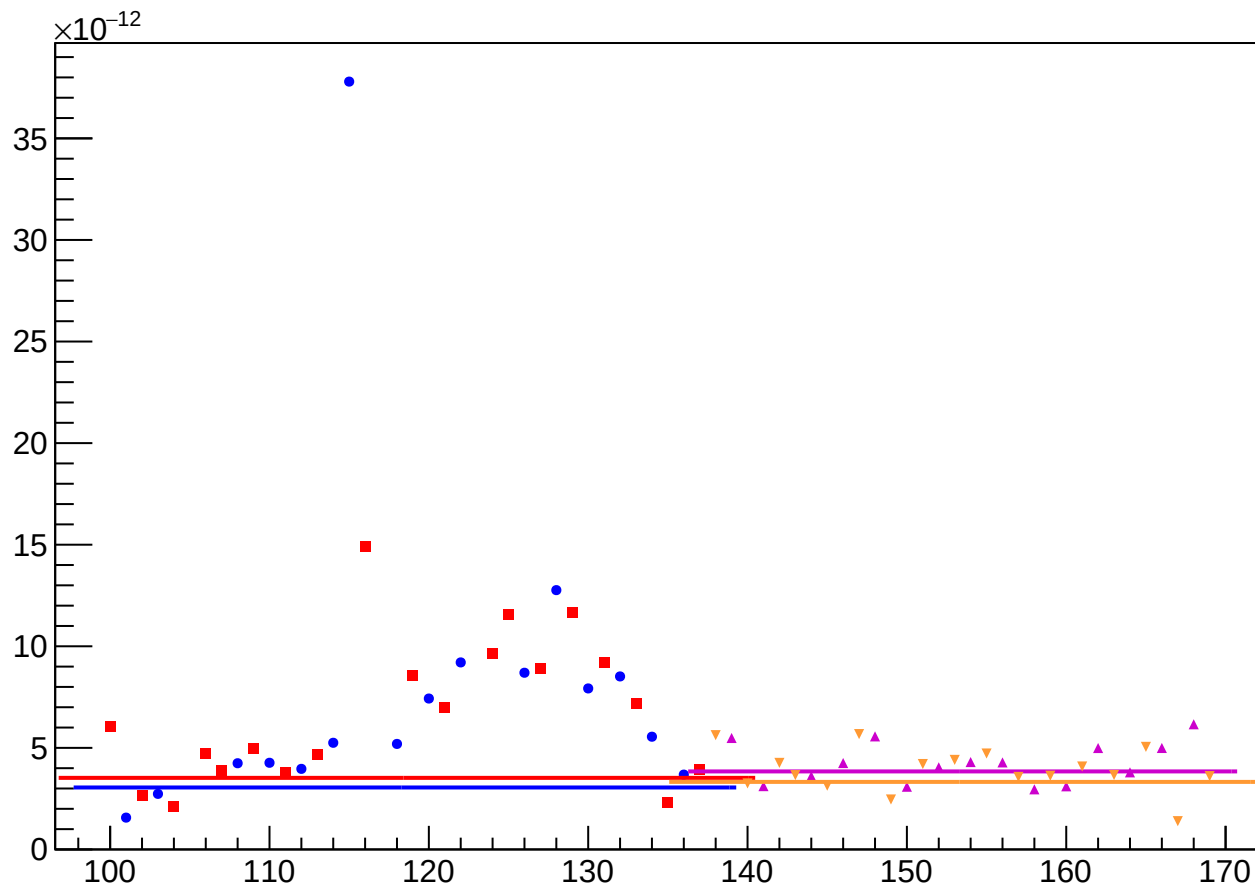
Right: 0.000+/-0.000 χ^2/NDF : 27.4/34

In: 0.000+/-0.000 χ^2/NDF : 29.5/30

Out: 0.000+/-0.000 χ^2/NDF : 25.5/35

All: 0.000+/-0.000 χ^2/NDF : 55.9/66

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2937232.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1779959.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2559080.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 842570.2/14

Left: 0.000+/-0.000 χ^2/NDF : 2784233.3/31

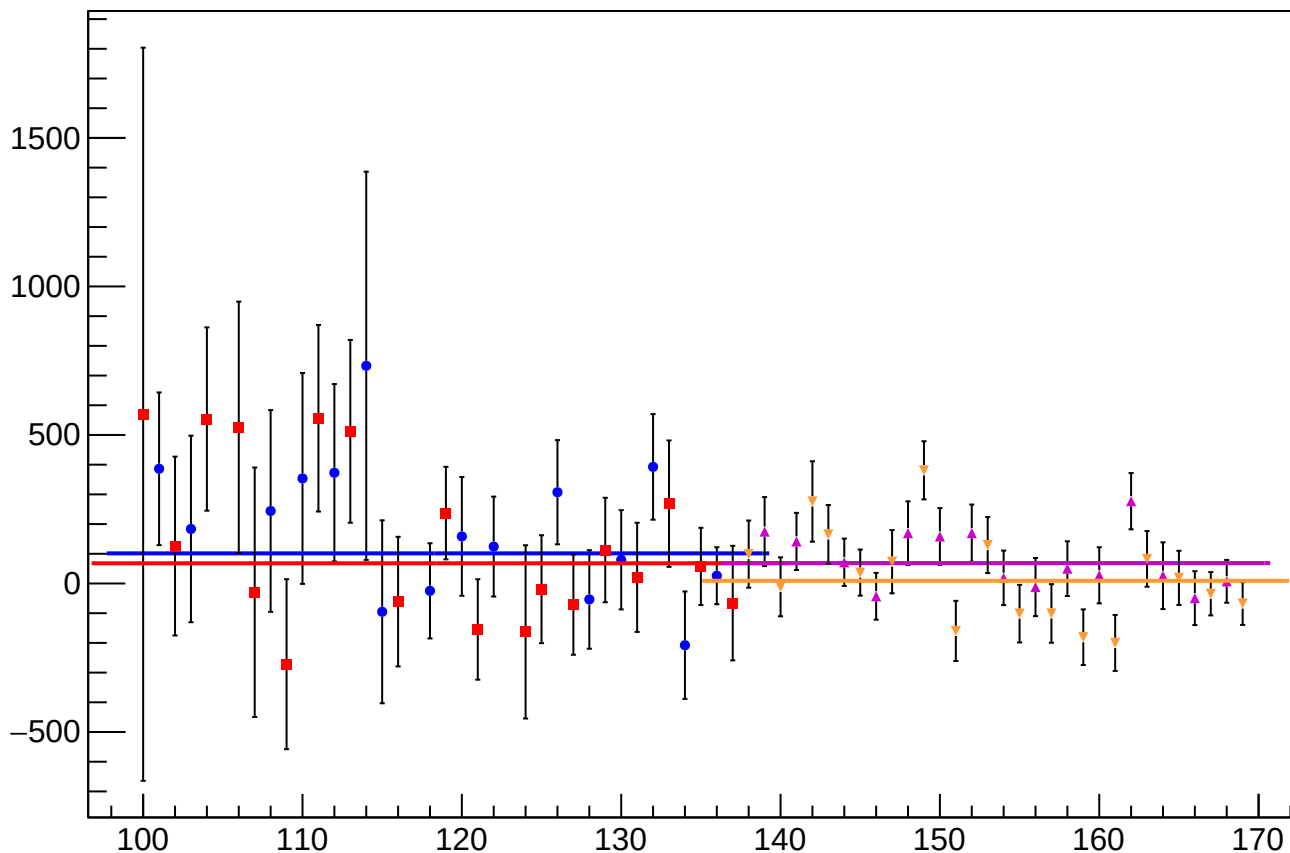
Right: 0.000+/-0.000 χ^2/NDF : 5572682.8/34

In: 0.000+/-0.000 χ^2/NDF : 4057083.8/30

Out: 0.000+/-0.000 χ^2/NDF : 4356017.6/35

All: 0.000+/-0.000 χ^2/NDF : 8429870.1/66

reg_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 101.460 $\pm$ 47.631 χ^2 /NDF: 13.4/15

Left Out: 9.074 $\pm$ 22.612 χ^2 /NDF:40.1/16

Right Out: 68.108 $\pm$ 49.327 χ^2 /NDF: 16.1/18

Left In: 68.772 $\pm$ 23.819 χ^2 /NDF:14.9/14

Left: 37.372 $\pm$ 16.399 χ^2 /NDF: 58.3/31

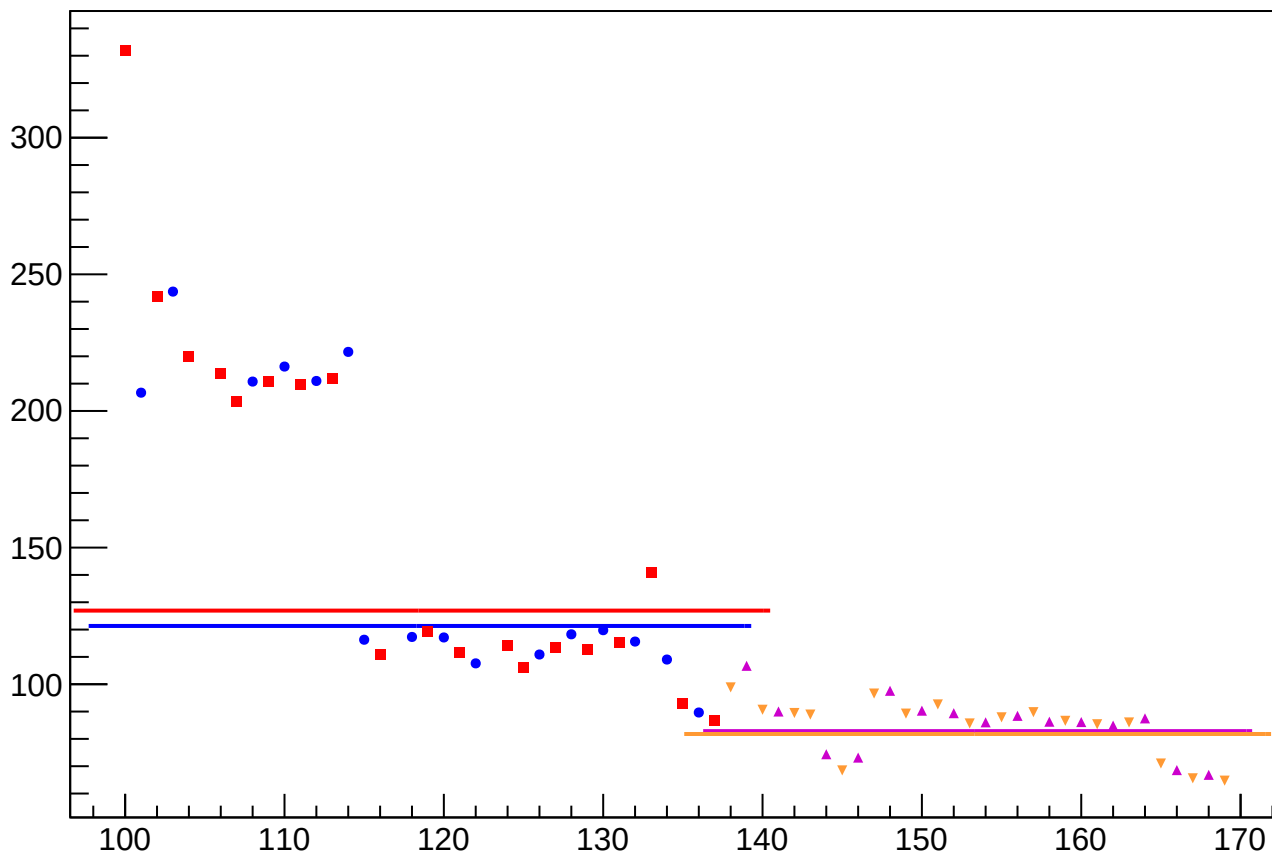
Right: 85.367 $\pm$ 34.264 χ^2 /NDF: 29.7/34

In: 75.311 $\pm$ 21.304 χ^2 /NDF:28.6/30

Out: 19.325 $\pm$ 20.555 χ^2 /NDF:57.4/35

All: 46.317 $\pm$ 14.792 χ^2 /NDF: 89.6/66

reg_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 121.325 $\pm$ 0.034 χ^2 /NDF: 1286651.5/15

Left Out: 81.789 $\pm$ 0.016 χ^2 /NDF: 486311.5/16

Right Out: 126.945 $\pm$ 0.035 χ^2 /NDF: 1471592.1/18

Left In: 82.842 $\pm$ 0.017 χ^2 /NDF: 374399.6/14

Left: 82.288 $\pm$ 0.012 χ^2 /NDF: 862766.7/31

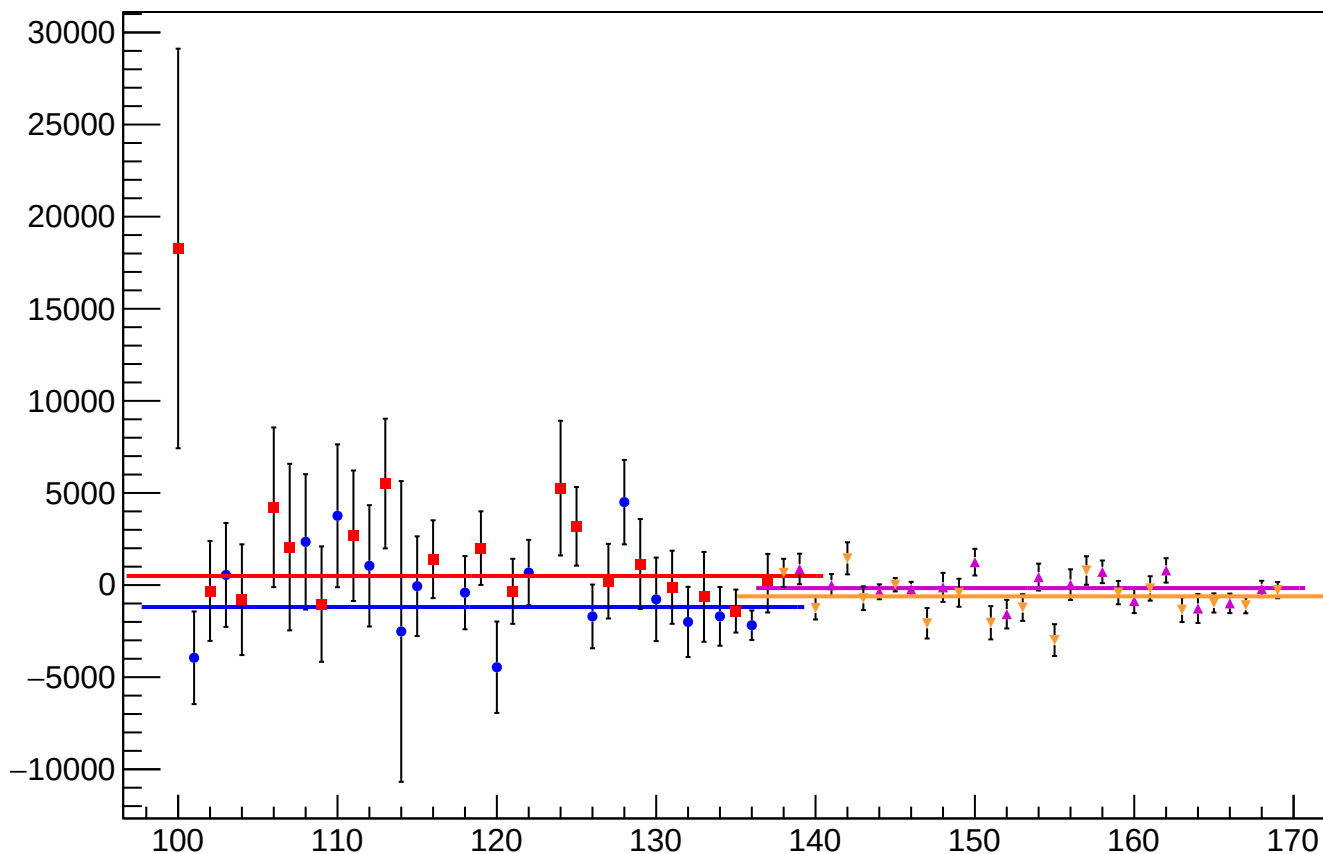
Right: 124.037 $\pm$ 0.024 χ^2 /NDF: 2771675.2/34

In: 90.540 $\pm$ 0.015 χ^2 /NDF: 2705472.1/30

Out: 89.630 $\pm$ 0.015 χ^2 /NDF: 3342906.7/35

All: 90.069 $\pm$ 0.010 χ^2 /NDF: 6050270.1/66

asym_sam_26_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -1192.168 ± 478.908 $\chi^2/\text{NDF}: 15.9/15$

Left Out: -612.209 ± 147.183 $\chi^2/\text{NDF}: 33.7/16$

Right Out: 494.627 ± 521.756 $\chi^2/\text{NDF}: 13.9/18$

Left In: -163.411 ± 153.636 $\chi^2/\text{NDF}: 19.5/14$

Left: -397.433 ± 106.282 $\chi^2/\text{NDF}: 57.7/31$

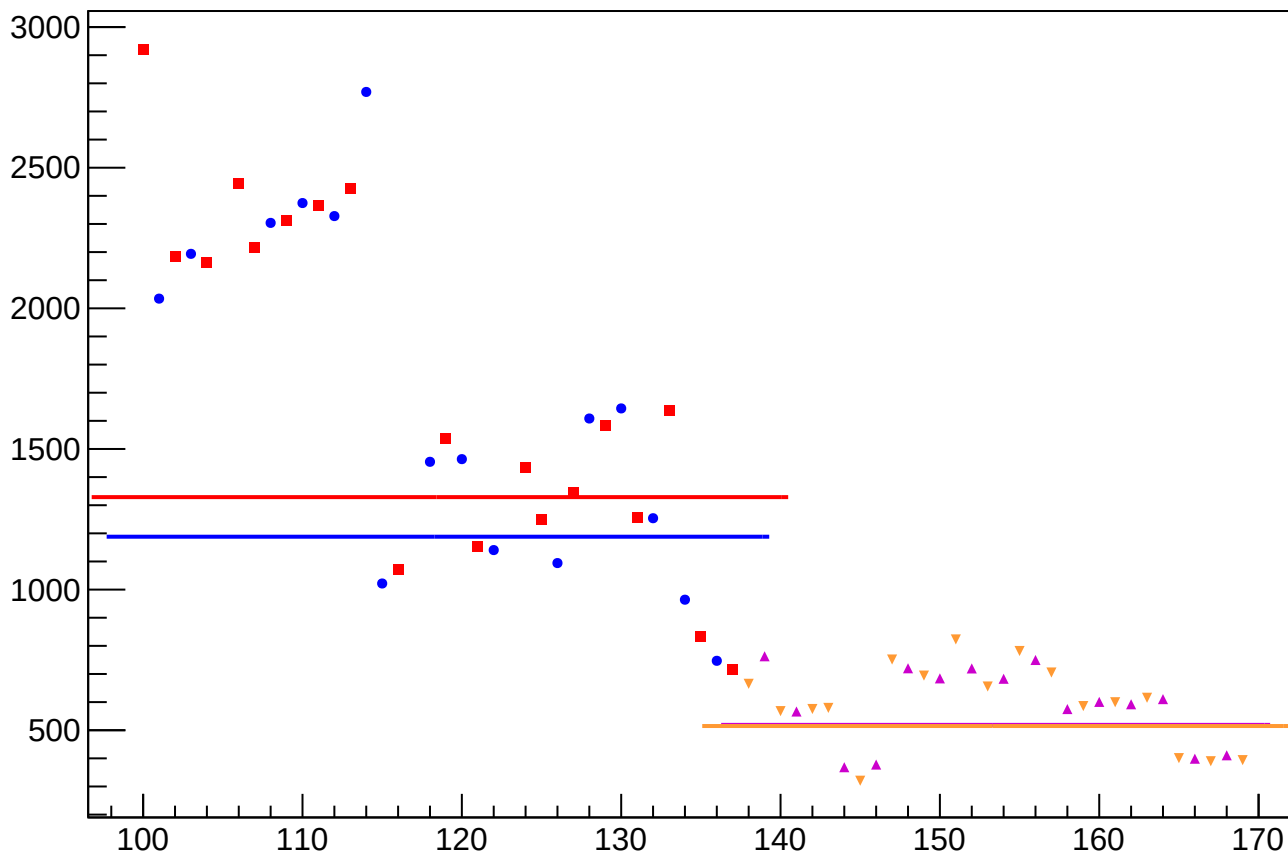
Right: -420.866 ± 352.816 $\chi^2/\text{NDF}: 35.5/34$

In: -259.407 ± 146.293 $\chi^2/\text{NDF}: 39.6/30$

Out: -530.623 ± 141.655 $\chi^2/\text{NDF}: 51.8/35$

All: -399.382 ± 101.765 $\chi^2/\text{NDF}: 93.2/66$

asym_sam_26_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1188.069+/-0.339 χ^2/NDF : 2044635.7/15

Left Out: 514.960+/-0.104 χ^2/NDF : 2110171.0/16

Right Out: 1328.816+/-0.369 χ^2/NDF : 1957758.3/18

Left In: 519.034+/-0.109 χ^2/NDF : 1647885.4/14

Left: 516.909+/-0.075 χ^2/NDF : 3758789.5/31

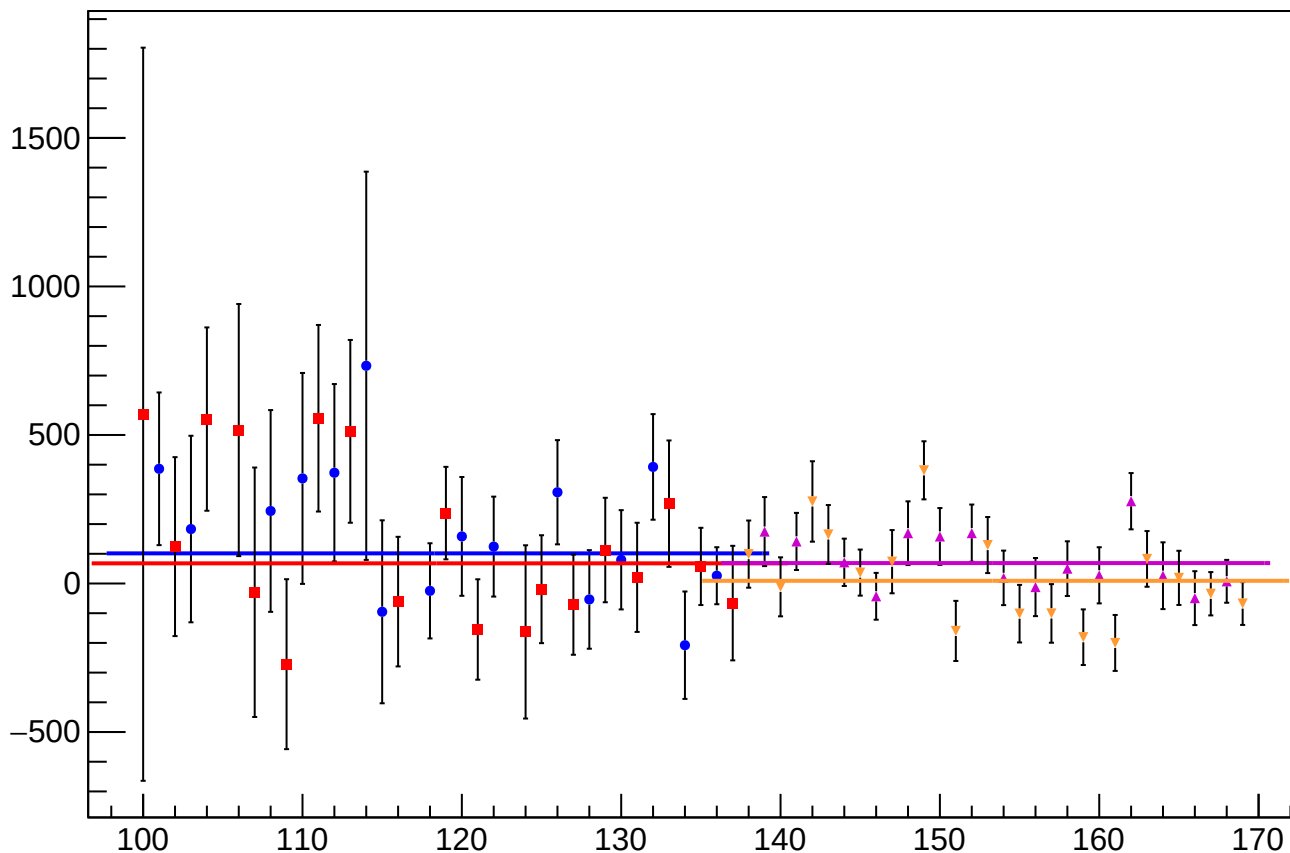
Right: 1252.427+/-0.249 χ^2/NDF : 4081382.8/34

In: 581.463+/-0.103 χ^2/NDF : 7231533.6/30

Out: 574.950+/-0.100 χ^2/NDF : 8575450.7/35

All: 578.102+/-0.072 χ^2/NDF : 15809030.4/60

cor_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 101.446 $\pm$ 47.631 χ^2 /NDF: 13.3/15

Left Out: 9.076 $\pm$ 22.612 χ^2 /NDF:40.1/16

Right Out: 67.881 $\pm$ 49.331 χ^2 /NDF: 16.1/18

Left In: 68.772 $\pm$ 23.819 χ^2 /NDF:14.9/14

Left: 37.373 $\pm$ 16.399 χ^2 /NDF: 58.3/31

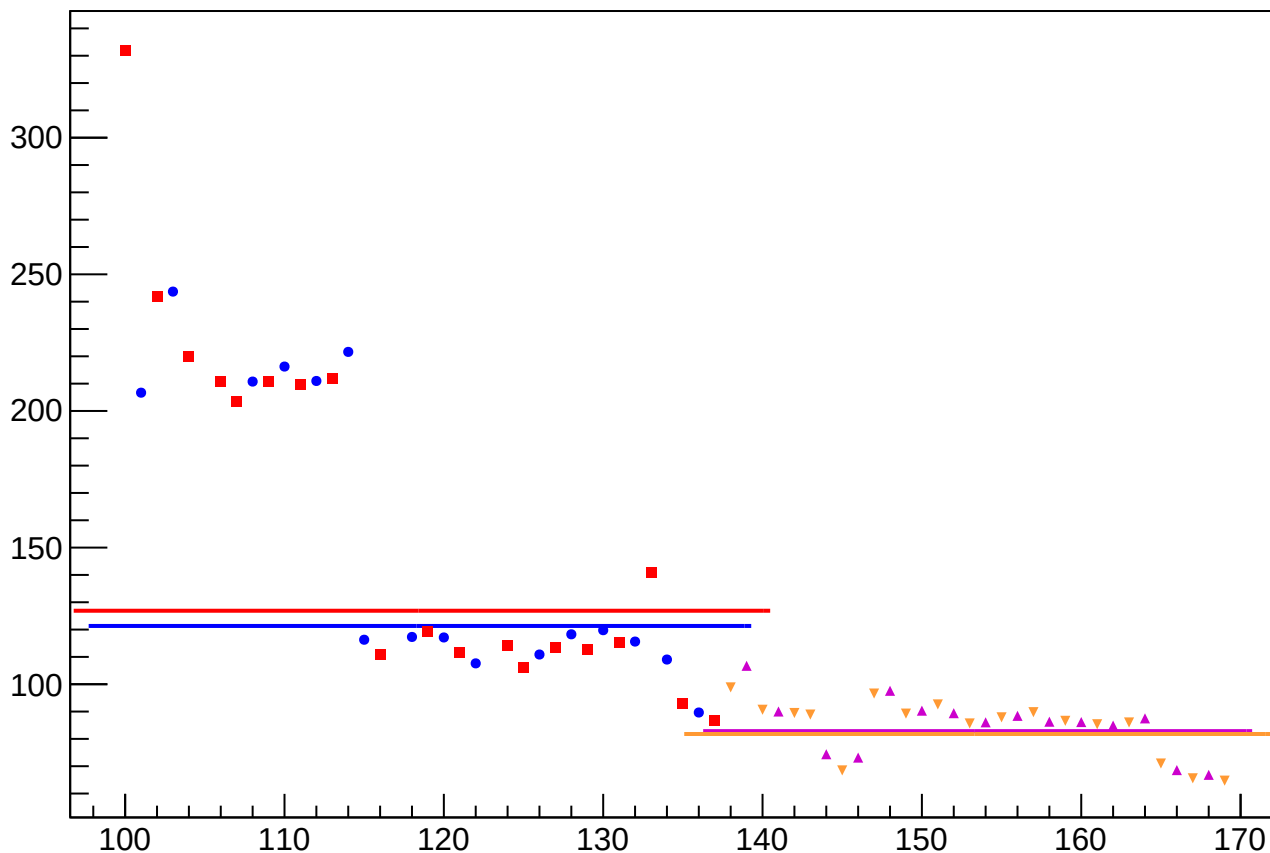
Right: 85.252 $\pm$ 34.265 χ^2 /NDF: 29.7/34

In: 75.308 $\pm$ 21.304 χ^2 /NDF:28.6/30

Out: 19.286 $\pm$ 20.556 χ^2 /NDF:57.4/35

All: 46.296 $\pm$ 14.792 χ^2 /NDF: 89.5/66

cor_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 121.325 $\pm$ 0.034 χ^2 /NDF: 1286654.0/15

Left Out: 81.789 $\pm$ 0.016 χ^2 /NDF: 486311.5/16

Right Out: 126.895 $\pm$ 0.035 χ^2 /NDF: 1465478.6/18

Left In: 82.842 $\pm$ 0.017 χ^2 /NDF: 374399.6/14

Left: 82.288 $\pm$ 0.012 χ^2 /NDF: 862766.7/31

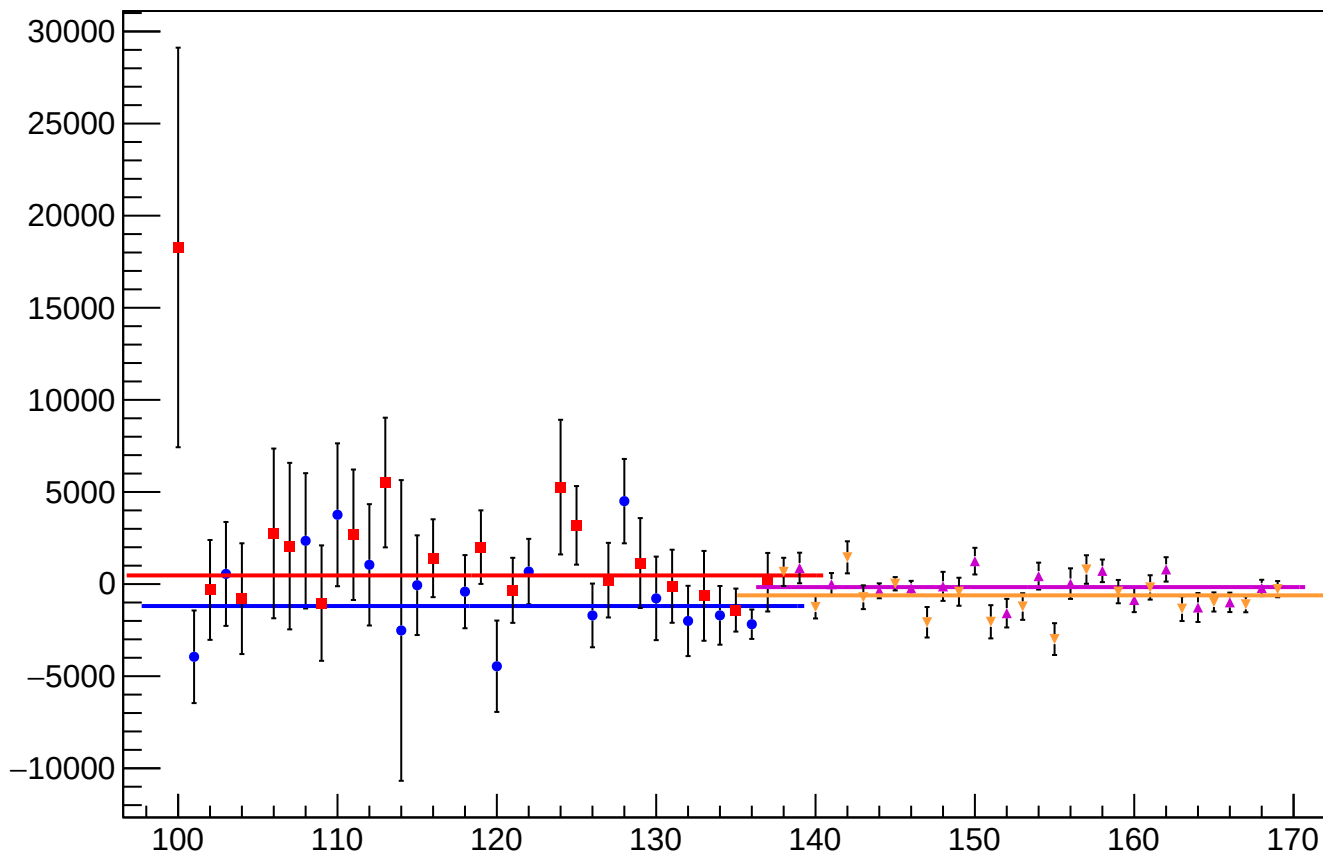
Right: 124.013 $\pm$ 0.024 χ^2 /NDF: 2765325.4/34

In: 90.540 $\pm$ 0.015 χ^2 /NDF: 2705474.3/30

Out: 89.620 $\pm$ 0.015 χ^2 /NDF: 3333584.1/35

All: 90.064 $\pm$ 0.010 χ^2 /NDF: 6040989.4/66

asym_sam_26_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -1192.145 $\pm$ 478.909 χ^2 /NDF: 15.9/15

Left Out: -612.204 $\pm$ 147.183 χ^2 /NDF:33.8/16

Right Out: 469.736 $\pm$ 522.203 χ^2 /NDF: 13.4/18

Left In: -163.409 $\pm$ 153.637 χ^2 /NDF:19.5/14

Left: -397.430 $\pm$ 106.282 χ^2 /NDF: 57.7/31

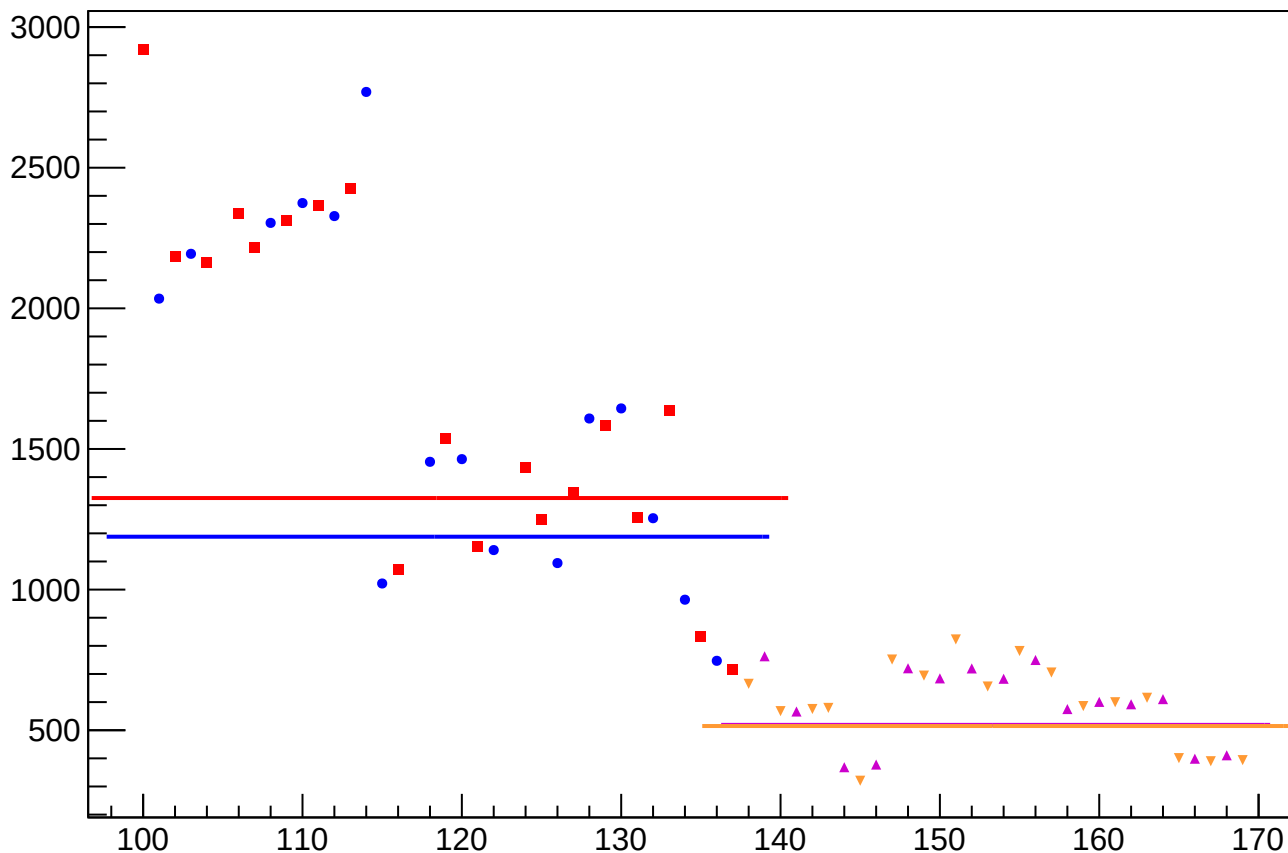
Right: -432.941 $\pm$ 352.955 χ^2 /NDF: 34.8/34

In: -259.403 $\pm$ 146.293 χ^2 /NDF:39.6/30

Out: -532.580 $\pm$ 141.664 χ^2 /NDF:51.1/35

All: -400.382 $\pm$ 101.769 χ^2 /NDF: 92.5/66

asym_sam_26_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1188.069+/-0.339 χ^2/NDF : 2044666.3/15

Left Out: 514.960+/-0.104 χ^2/NDF : 2110180.6/16

Right Out: 1325.564+/-0.369 χ^2/NDF : 1920986.7/18

Left In: 519.034+/-0.109 χ^2/NDF : 1647884.3/14

Left: 516.909+/-0.075 χ^2/NDF : 3758798.2/31

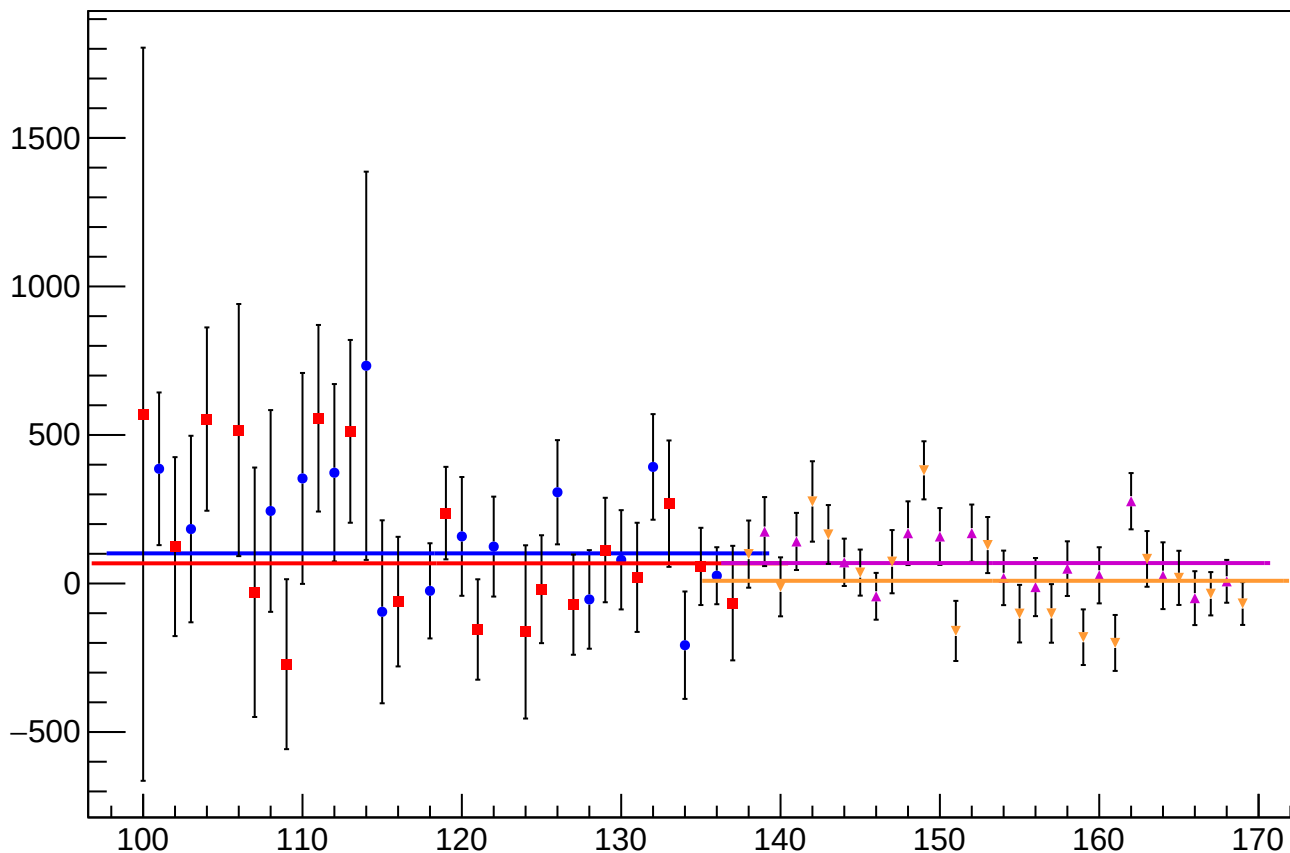
Right: 1250.882+/-0.250 χ^2/NDF : 4040963.9/34

In: 581.463+/-0.103 χ^2/NDF : 7231548.8/30

Out: 574.615+/-0.100 χ^2/NDF : 8495643.5/35

All: 577.929+/-0.072 χ^2/NDF : 15729454.3/66

eigen_cor_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 101.446 $\pm$ 47.631 χ^2 /NDF: 13.3/15

Left Out: 9.076 $\pm$ 22.612 χ^2 /NDF:40.1/16

Right Out: 67.881 $\pm$ 49.331 χ^2 /NDF: 16.1/18

Left In: 68.772 $\pm$ 23.819 χ^2 /NDF:14.9/14

Left: 37.373 $\pm$ 16.399 χ^2 /NDF: 58.3/31

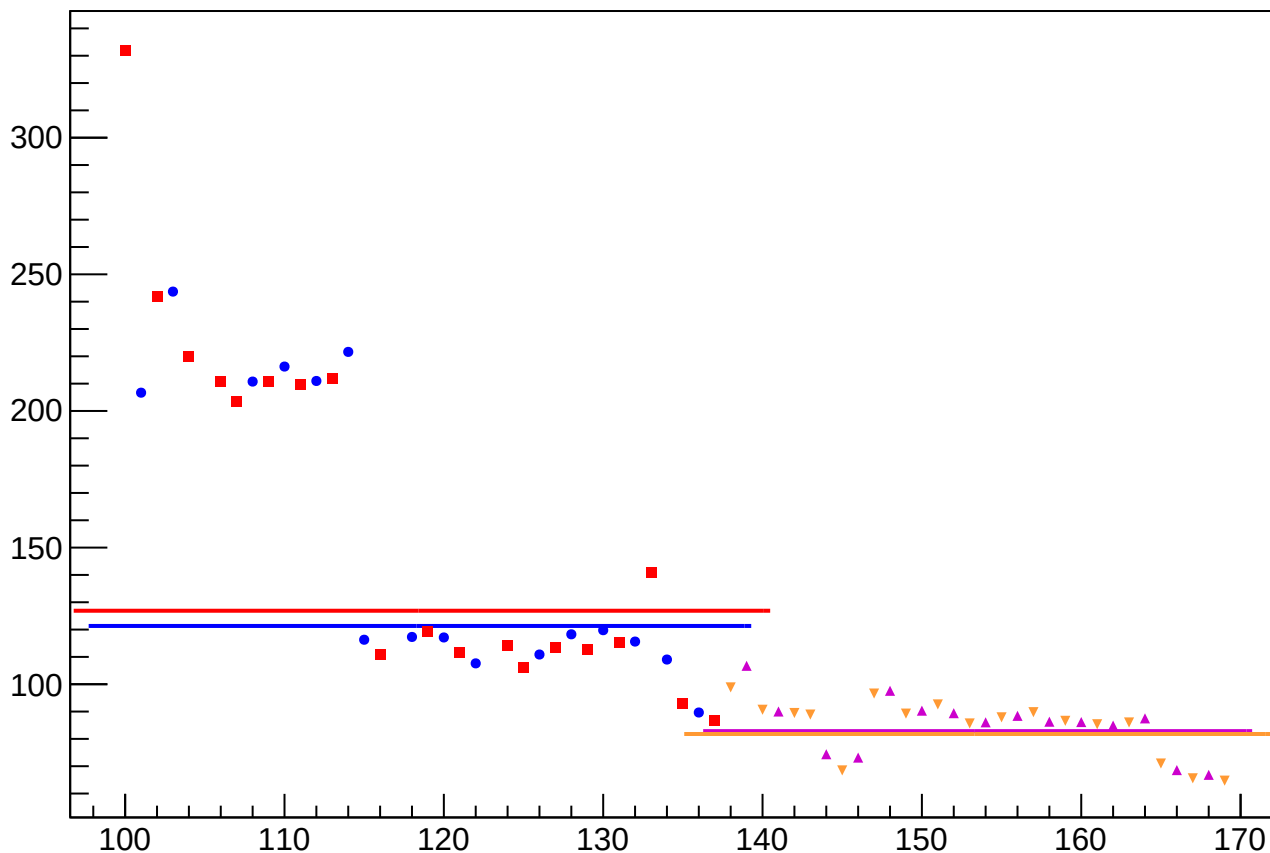
Right: 85.252 $\pm$ 34.265 χ^2 /NDF: 29.7/34

In: 75.308 $\pm$ 21.304 χ^2 /NDF:28.6/30

Out: 19.286 $\pm$ 20.556 χ^2 /NDF:57.4/35

All: 46.296 $\pm$ 14.792 χ^2 /NDF: 89.5/66

eigen_cor_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 121.325+/-0.034 χ^2/NDF : 1286654.0/15

Left Out: 81.789+/-0.016 χ^2/NDF : 486311.5/16

Right Out: 126.895+/-0.035 χ^2/NDF : 1465478.6/18

Left In: 82.842+/-0.017 χ^2/NDF : 374399.6/14

Left: 82.288+/-0.012 χ^2/NDF : 862766.7/31

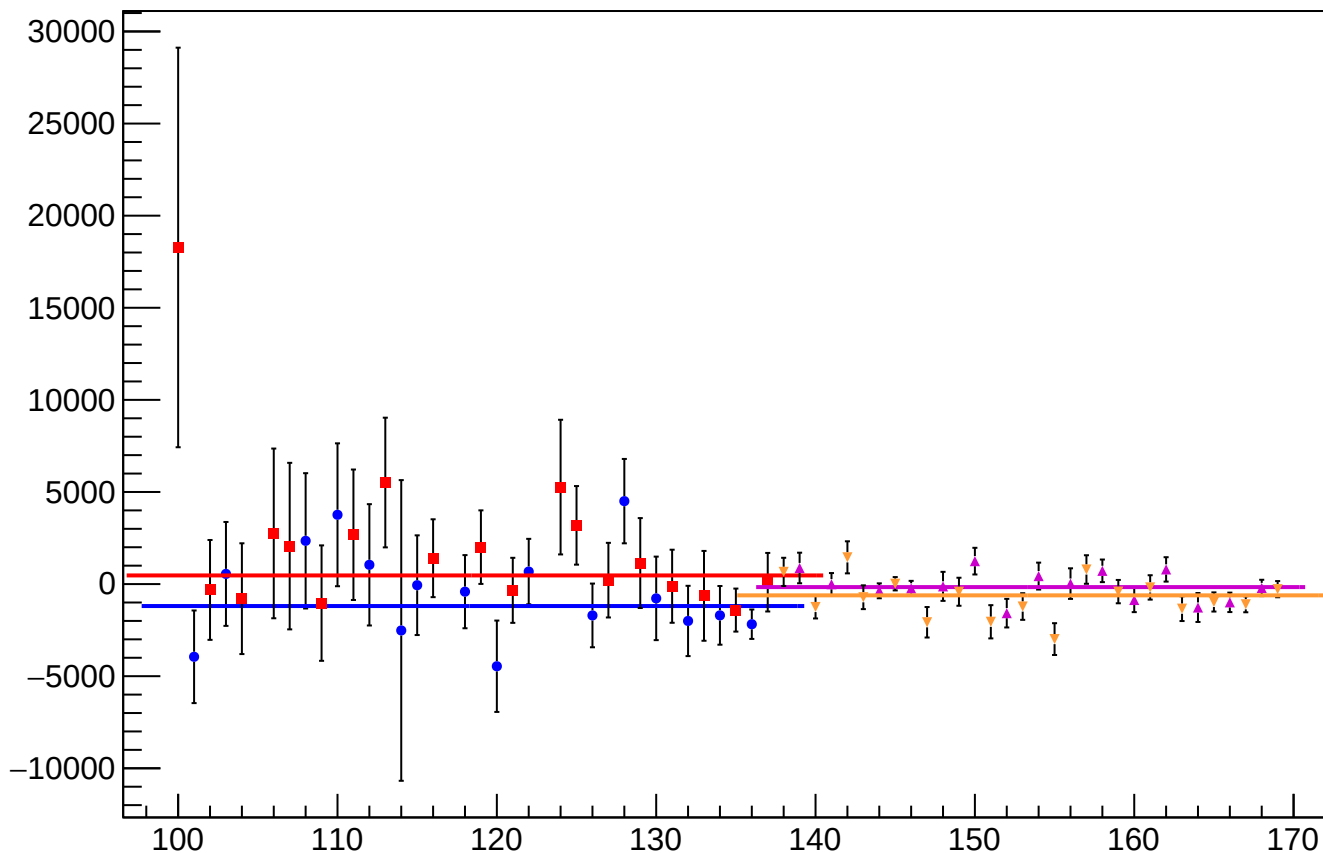
Right: 124.013+/-0.024 χ^2/NDF : 2765325.4/34

In: 90.540+/-0.015 χ^2/NDF : 2705474.3/30

Out: 89.620+/-0.015 χ^2/NDF : 3333584.1/35

All: 90.064+/-0.010 χ^2/NDF : 6040989.4/66

asym_sam_26_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1192.145 $\pm$ 478.909 χ^2 /NDF: 15.9/15

Left Out: -612.204 $\pm$ 147.183 χ^2 /NDF:33.8/16

Right Out: 469.736 $\pm$ 522.203 χ^2 /NDF: 13.4/18

Left In: -163.409 $\pm$ 153.637 χ^2 /NDF:19.5/14

Left: -397.430 $\pm$ 106.282 χ^2 /NDF: 57.7/31

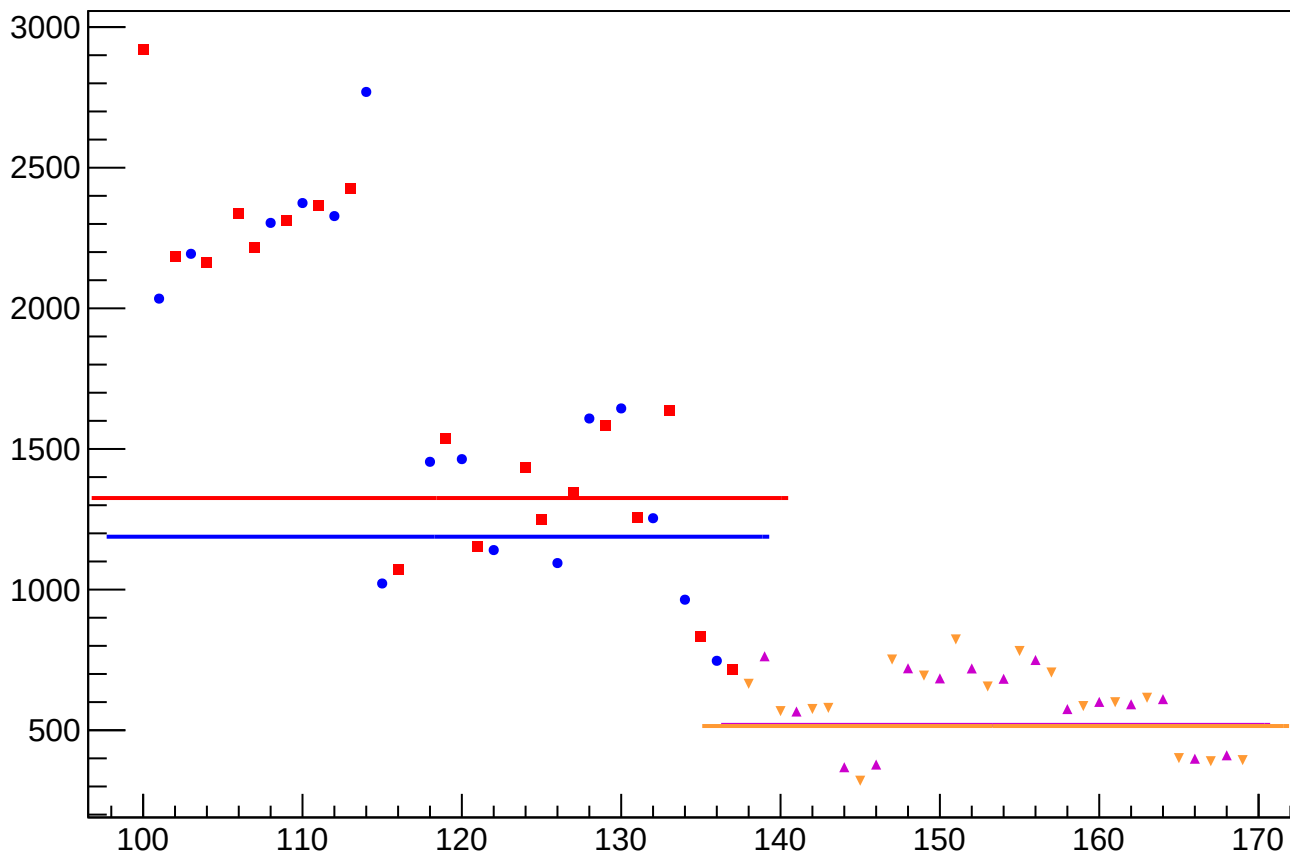
Right: -432.941 $\pm$ 352.955 χ^2 /NDF: 34.8/34

In: -259.403 $\pm$ 146.293 χ^2 /NDF:39.6/30

Out: -532.580 $\pm$ 141.664 χ^2 /NDF:51.1/35

All: -400.382 $\pm$ 101.769 χ^2 /NDF: 92.5/66

asym_sam_26_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1188.069+/-0.339 χ^2/NDF : 2044666.3/15

Left Out: 514.960+/-0.104 χ^2/NDF : 2110180.6/16

Right Out: 1325.564+/-0.369 χ^2/NDF : 1920986.7/18

Left In: 519.034+/-0.109 χ^2/NDF : 1647884.3/14

Left: 516.909+/-0.075 χ^2/NDF : 3758798.2/31

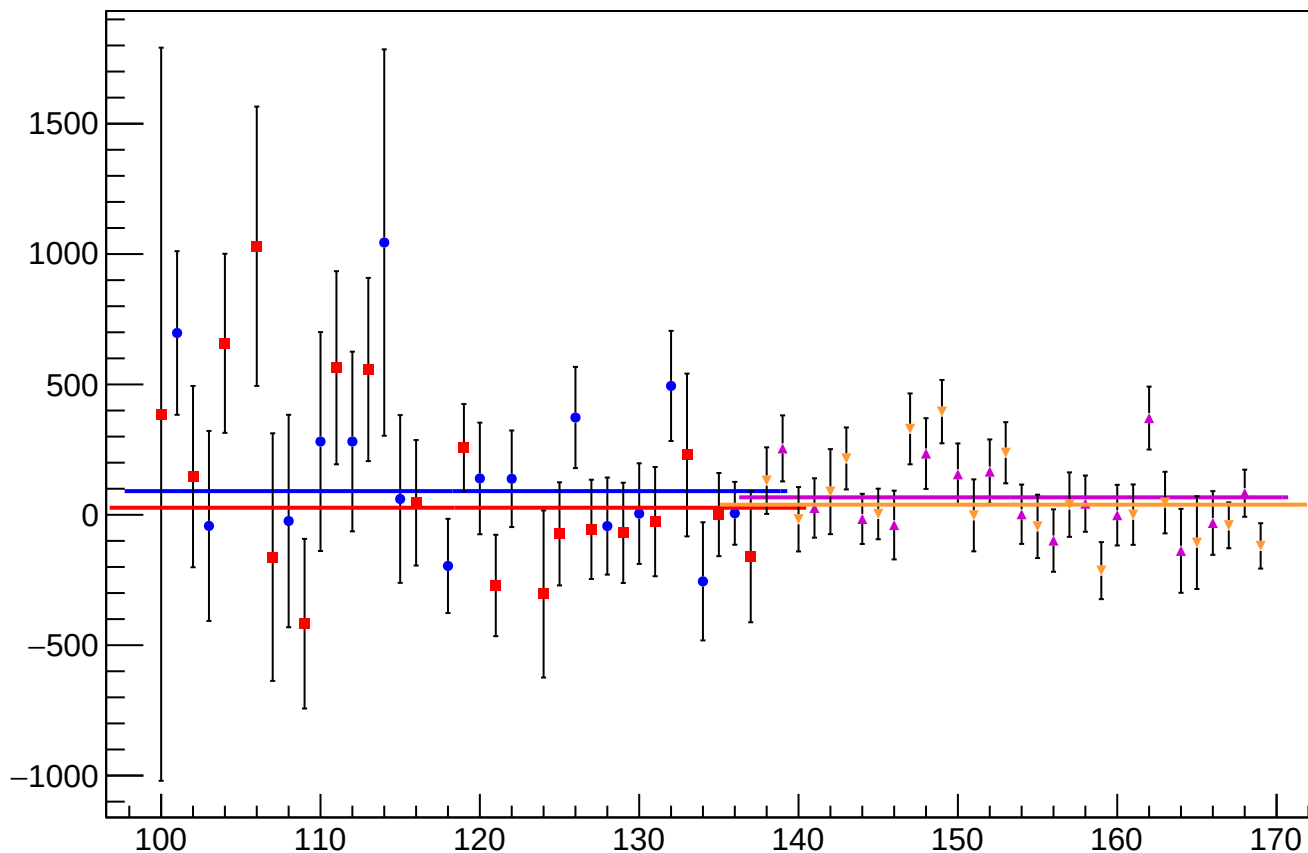
Right: 1250.882+/-0.250 χ^2/NDF : 4040963.9/34

In: 581.463+/-0.103 χ^2/NDF : 7231548.8/30

Out: 574.615+/-0.100 χ^2/NDF : 8495643.5/35

All: 577.929+/-0.072 χ^2/NDF : 15729454.3/66

dit_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 90.908 $\pm$ 55.565 χ^2 /NDF: 18.1/15

Left Out: 38.993 $\pm$ 28.339 χ^2 /NDF:30.1/16

Right Out: 27.170 $\pm$ 57.015 χ^2 /NDF: 20.6/18

Left In: 67.075 $\pm$ 30.146 χ^2 /NDF:17.7/14

Left: 52.167 $\pm$ 20.648 χ^2 /NDF: 48.3/31

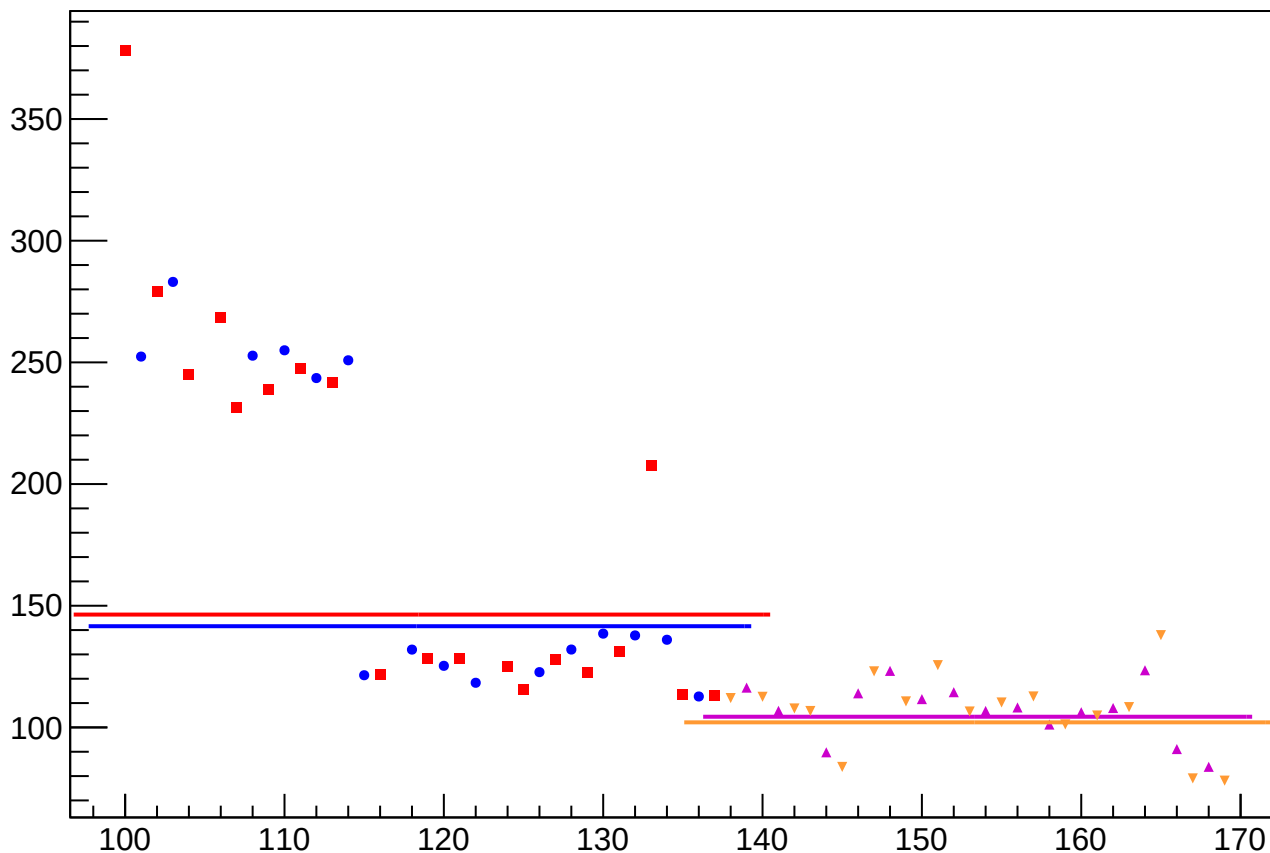
Right: 59.860 $\pm$ 39.793 χ^2 /NDF: 39.3/34

In: 72.495 $\pm$ 26.498 χ^2 /NDF:35.9/30

Out: 36.651 $\pm$ 25.377 χ^2 /NDF:50.7/35

All: 53.799 $\pm$ 18.328 χ^2 /NDF: 87.6/66

dit_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 141.586 $\pm$ 0.039 χ^2/NDF : 1262366.8/15

Left Out: 102.080 $\pm$ 0.020 χ^2/NDF : 623012.0/16

Right Out: 146.368 $\pm$ 0.040 χ^2/NDF : 1513656.0/18

Left In: 104.387 $\pm$ 0.021 χ^2/NDF : 297585.8/14

Left: 103.162 $\pm$ 0.015 χ^2/NDF : 926818.6/31

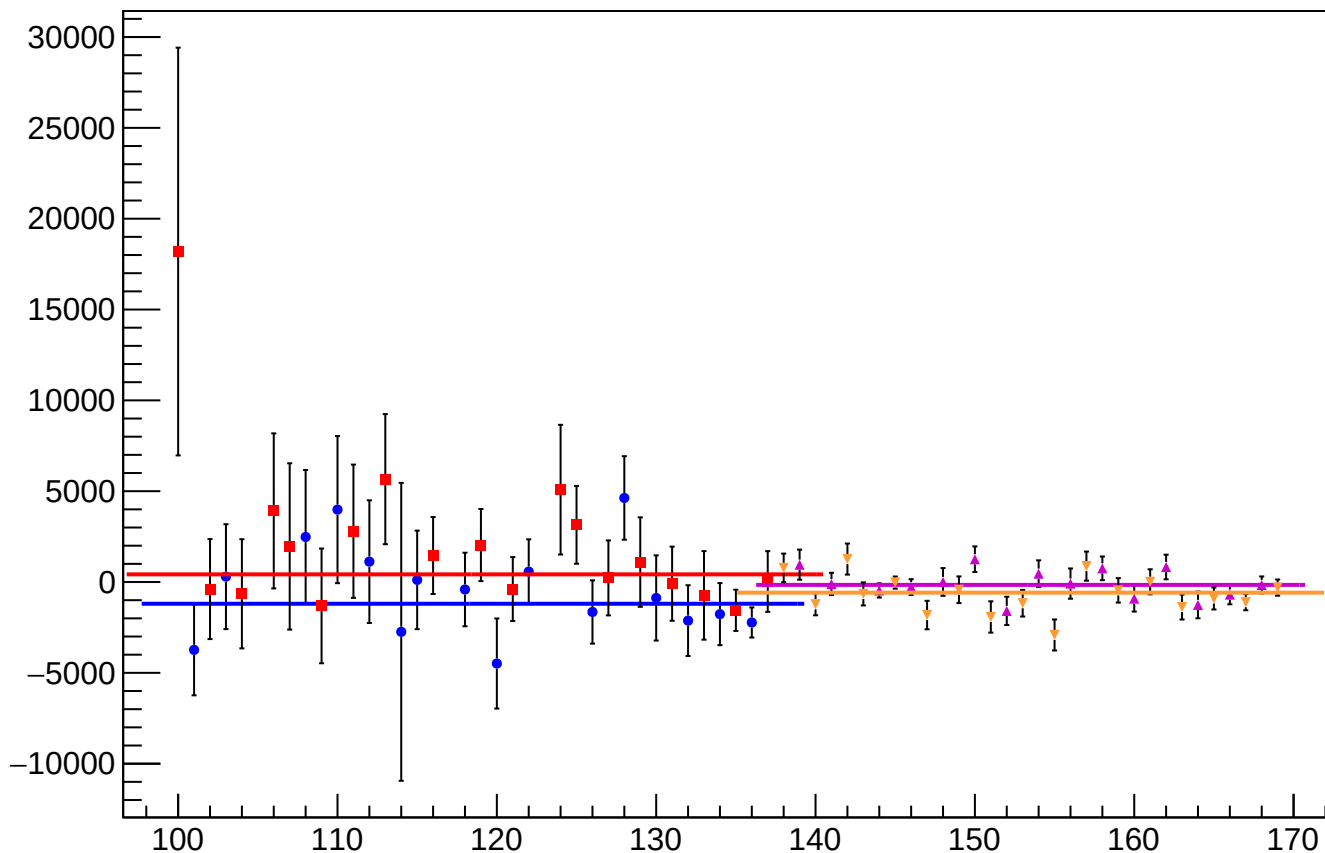
Right: 143.916 $\pm$ 0.028 χ^2/NDF : 2783239.3/34

In: 112.847 $\pm$ 0.019 χ^2/NDF : 2252484.0/30

Out: 110.854 $\pm$ 0.018 χ^2/NDF : 3104383.0/35

All: 111.807 $\pm$ 0.013 χ^2/NDF : 5362769.7/66

asym_sam_26_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -1196.663 $\pm$ 491.384 χ^2 /NDF: 16.0/15

Left Out: -584.417 $\pm$ 147.449 χ^2 /NDF:32.0/16

Right Out: 422.161 $\pm$ 523.834 χ^2 /NDF: 14.3/18

Left In: -157.489 $\pm$ 156.102 χ^2 /NDF:19.1/14

Left: -383.112 $\pm$ 107.191 χ^2 /NDF: 55.1/31

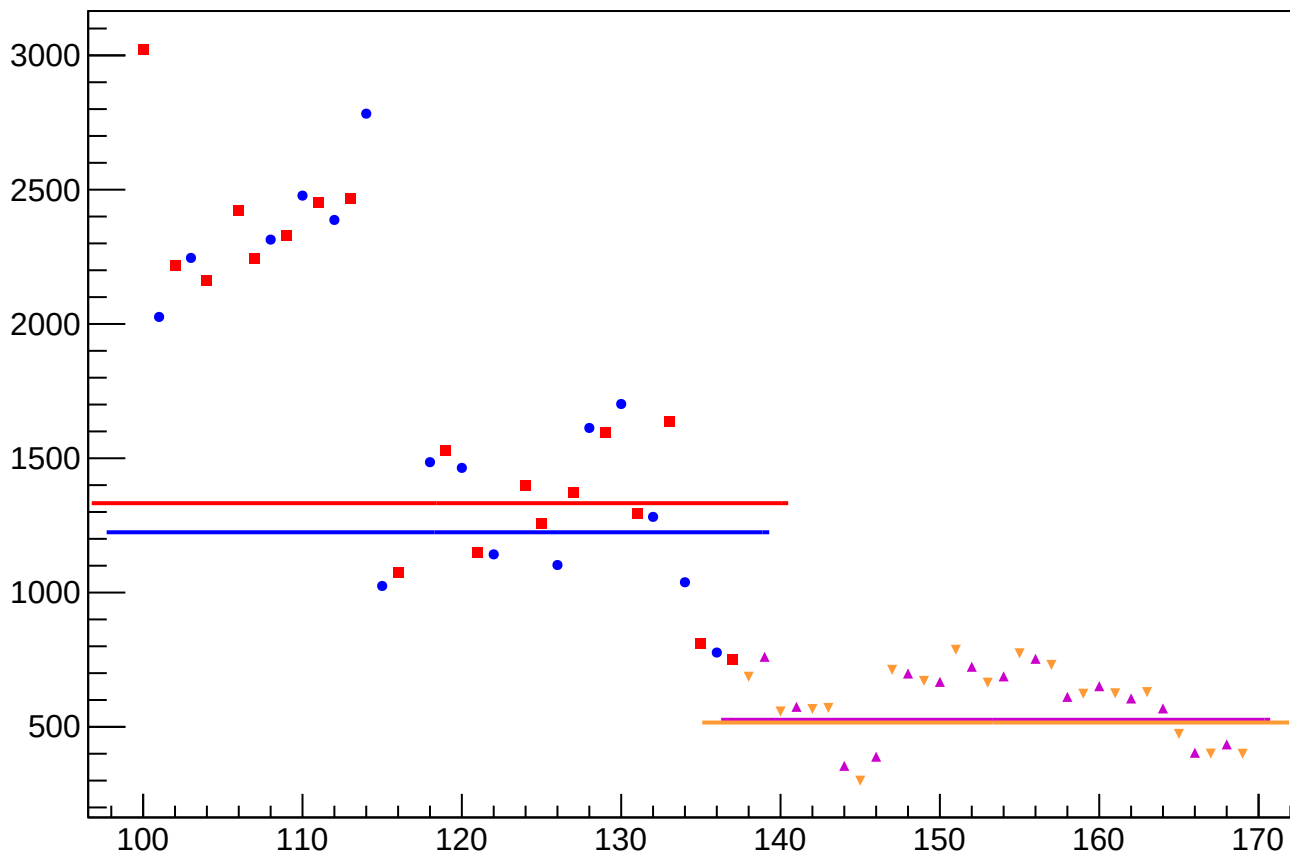
Right: -438.942 $\pm$ 358.384 χ^2 /NDF: 35.3/34

In: -252.748 $\pm$ 148.775 χ^2 /NDF:39.1/30

Out: -510.519 $\pm$ 141.934 χ^2 /NDF:49.7/35

All: -387.696 $\pm$ 102.696 χ^2 /NDF: 90.4/66

asym_sam_26_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1224.470+/-0.347 χ^2/NDF : 1959362.3/15

Left Out: 516.165+/-0.104 χ^2/NDF : 2221769.3/16

Right Out: 1332.785+/-0.370 χ^2/NDF : 1994811.5/18

Left In: 526.406+/-0.110 χ^2/NDF : 1625340.1/14

Left: 520.994+/-0.076 χ^2/NDF : 3851658.9/31

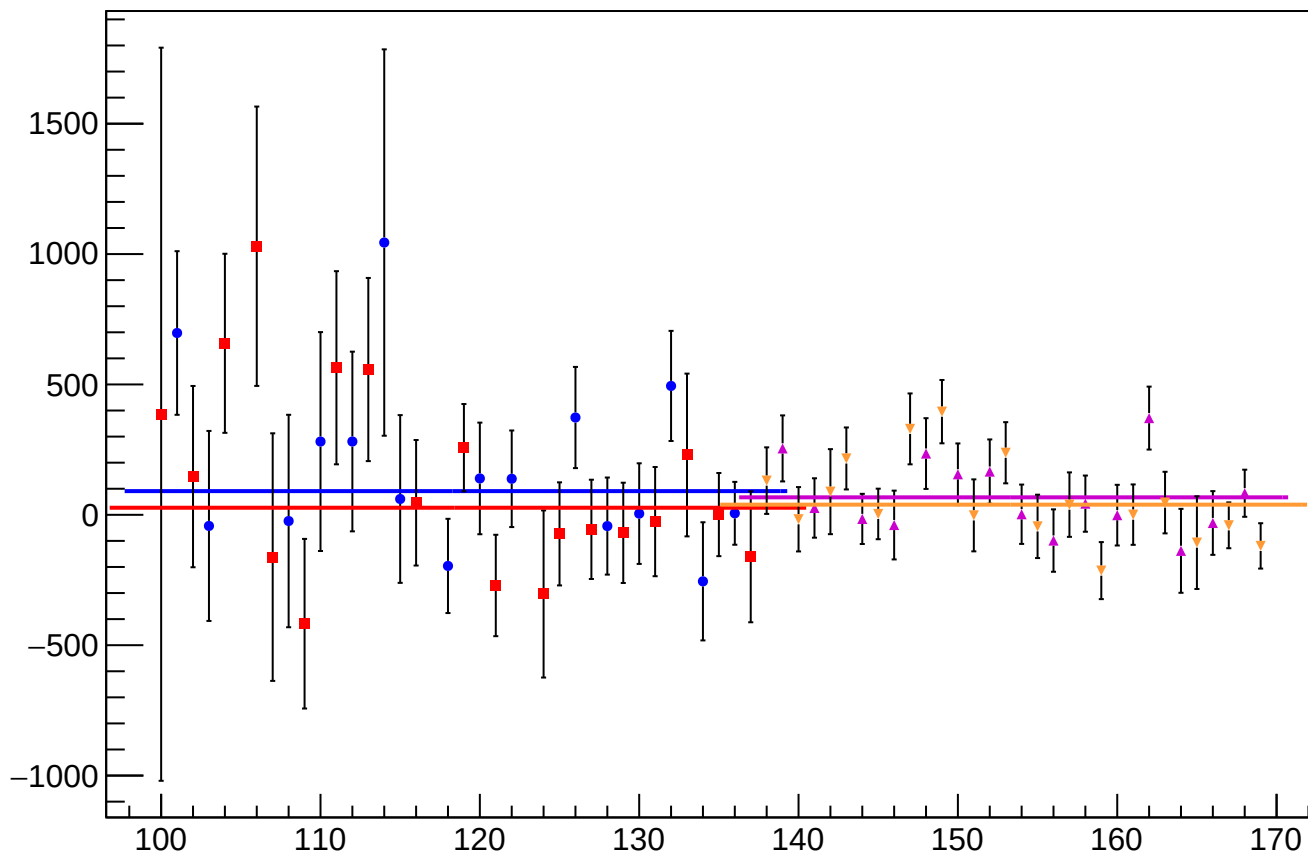
Right: 1275.169+/-0.253 χ^2/NDF : 3999659.2/34

In: 590.396+/-0.105 χ^2/NDF : 7250958.4/30

Out: 576.117+/-0.100 χ^2/NDF : 8720263.6/35

All: 582.921+/-0.073 χ^2/NDF : 15980867.6/66

eigen_dit_asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 90.910 $\pm$ 55.564 χ^2 /NDF: 18.1/15

Left Out: 38.993 $\pm$ 28.339 χ^2 /NDF:30.1/16

Right Out: 27.170 $\pm$ 57.015 χ^2 /NDF: 20.6/18

Left In: 67.072 $\pm$ 30.146 χ^2 /NDF:17.7/14

Left: 52.165 $\pm$ 20.648 χ^2 /NDF: 48.3/31

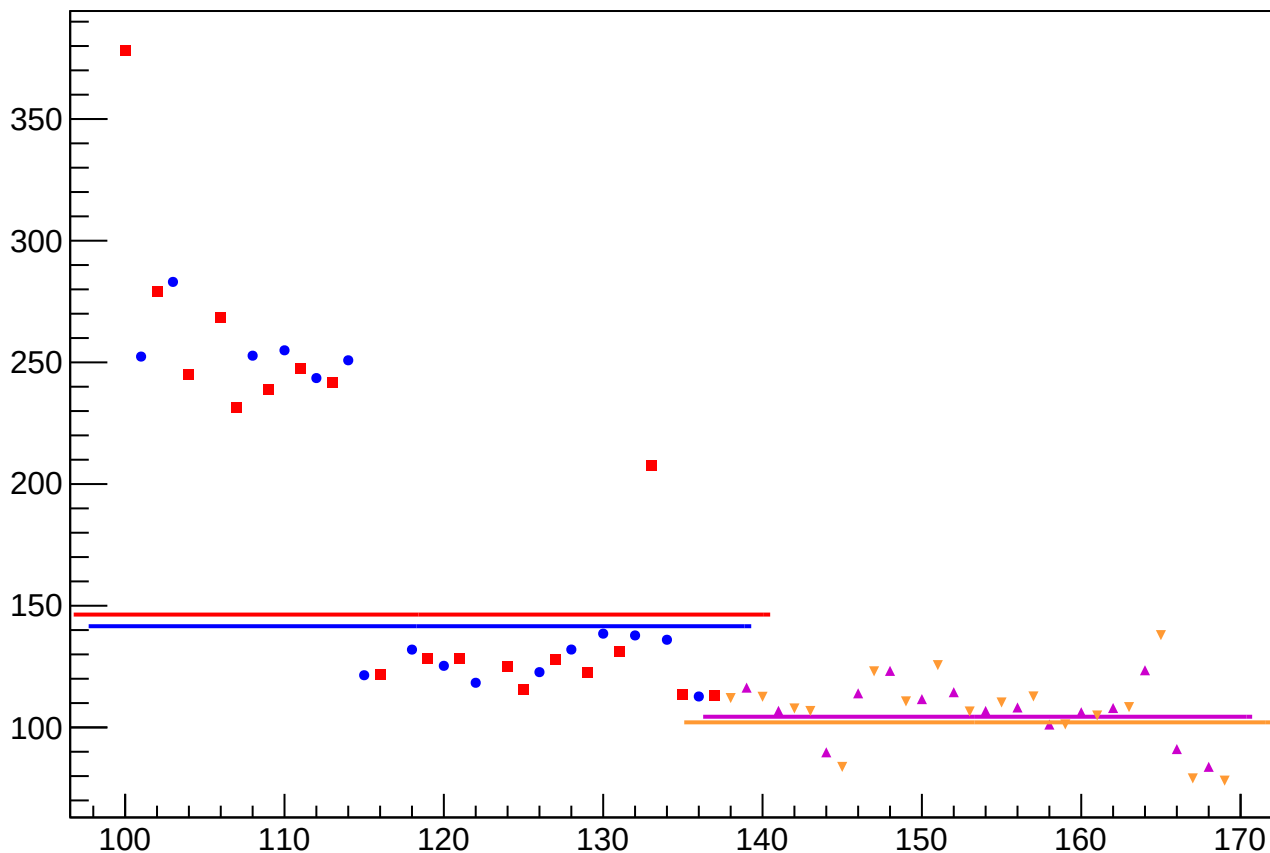
Right: 59.862 $\pm$ 39.793 χ^2 /NDF: 39.3/34

In: 72.493 $\pm$ 26.498 χ^2 /NDF:35.9/30

Out: 36.650 $\pm$ 25.377 χ^2 /NDF:50.7/35

All: 53.798 $\pm$ 18.328 χ^2 /NDF: 87.6/66

eigen_dit_asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 141.586 $\pm$ 0.039 χ^2 /NDF: 1262350.2/15

Left Out: 102.080 $\pm$ 0.020 χ^2 /NDF: 623000.3/16

Right Out: 146.368 $\pm$ 0.040 χ^2 /NDF: 1513641.5/18

Left In: 104.388 $\pm$ 0.021 χ^2 /NDF: 297581.5/14

Left: 103.163 $\pm$ 0.015 χ^2 /NDF: 926802.7/31

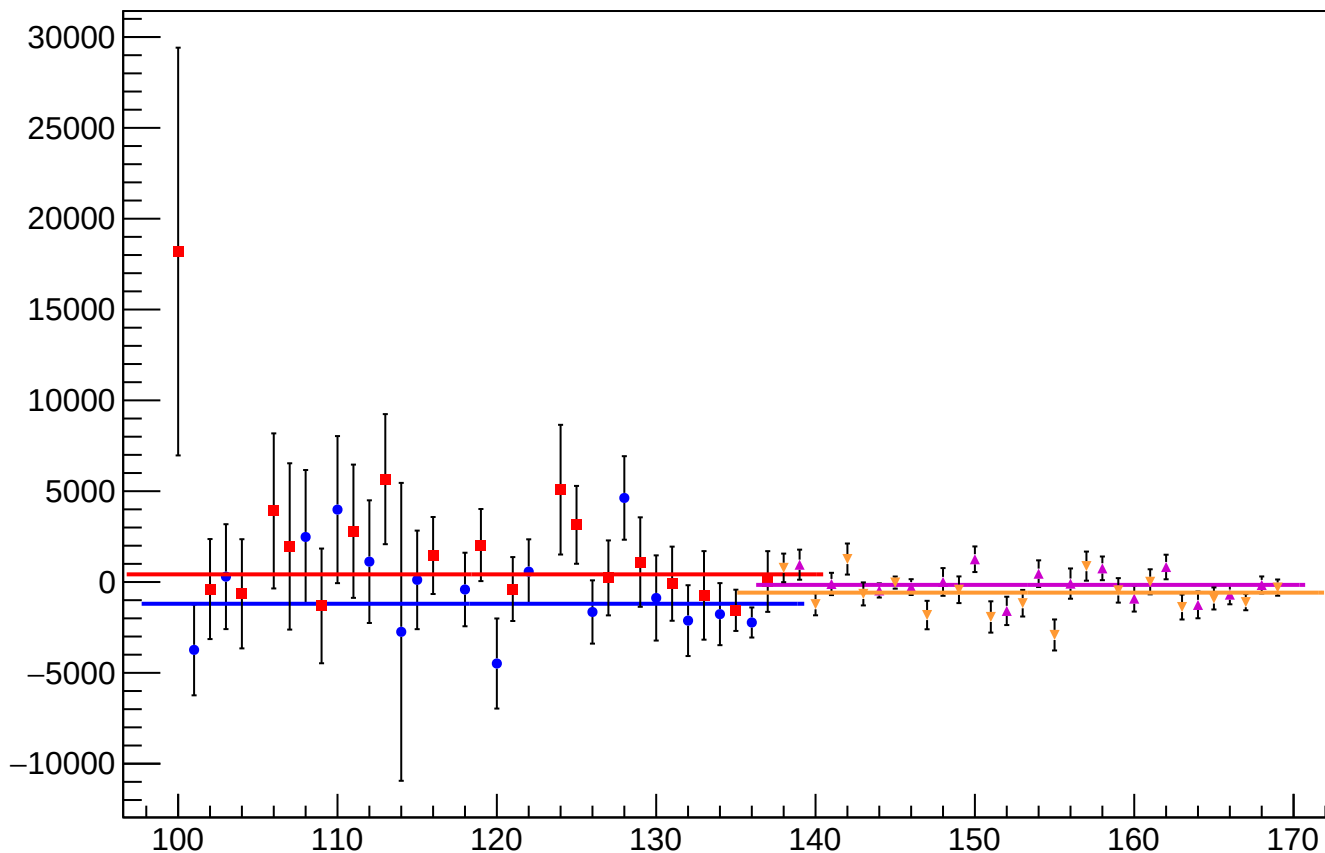
Right: 143.915 $\pm$ 0.028 χ^2 /NDF: 2783209.2/34

In: 112.847 $\pm$ 0.019 χ^2 /NDF: 2252428.7/30

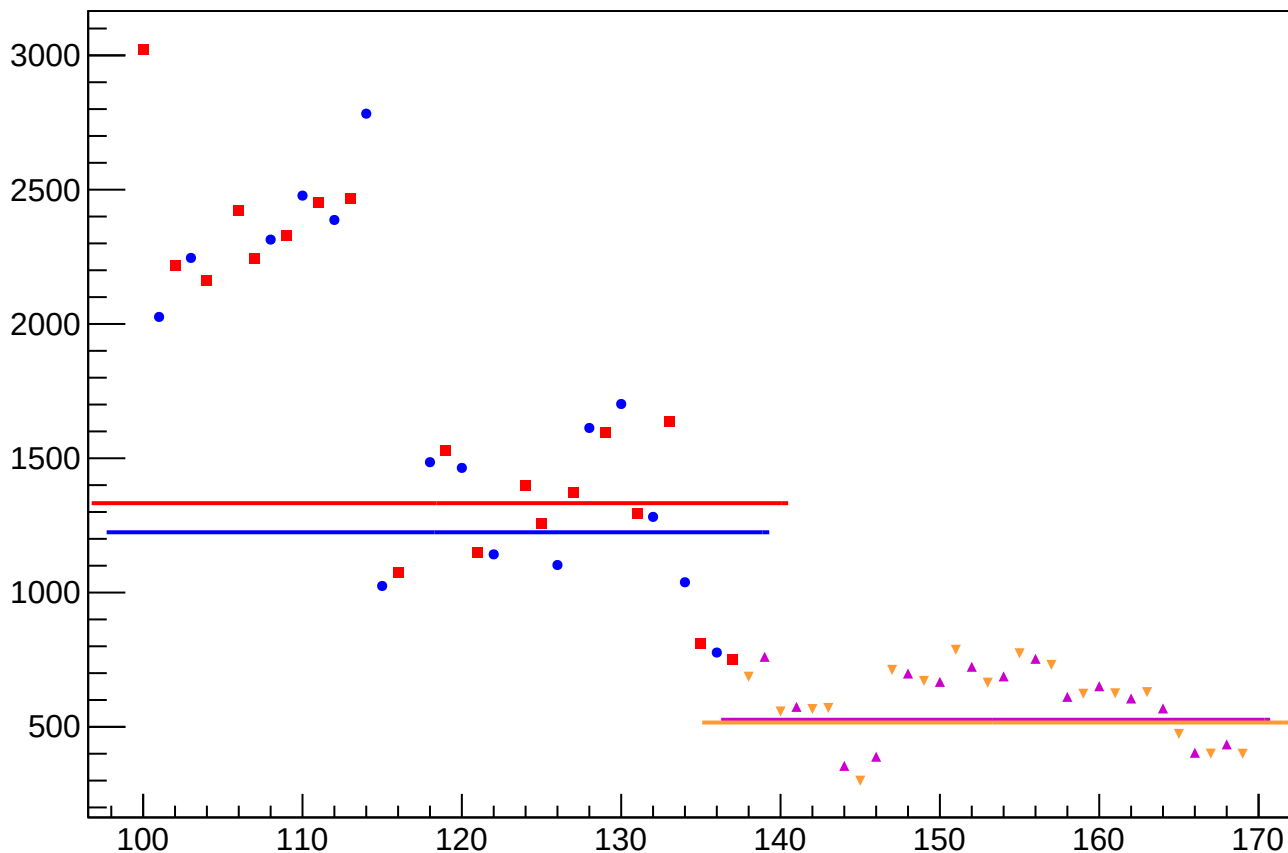
Out: 110.854 $\pm$ 0.018 χ^2 /NDF: 3104329.1/35

All: 111.808 $\pm$ 0.013 χ^2 /NDF: 5362660.1/66

asym_sam_26_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



asym_sam_26_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1224.470+/-0.347 χ^2/NDF : 1959341.1/15

Left Out: 516.163+/-0.104 χ^2/NDF : 2221816.0/16

Right Out: 1332.784+/-0.370 χ^2/NDF : 1994794.3/18

Left In: 526.406+/-0.110 χ^2/NDF : 1625352.8/14

Left: 520.993+/-0.076 χ^2/NDF : 3851719.2/31

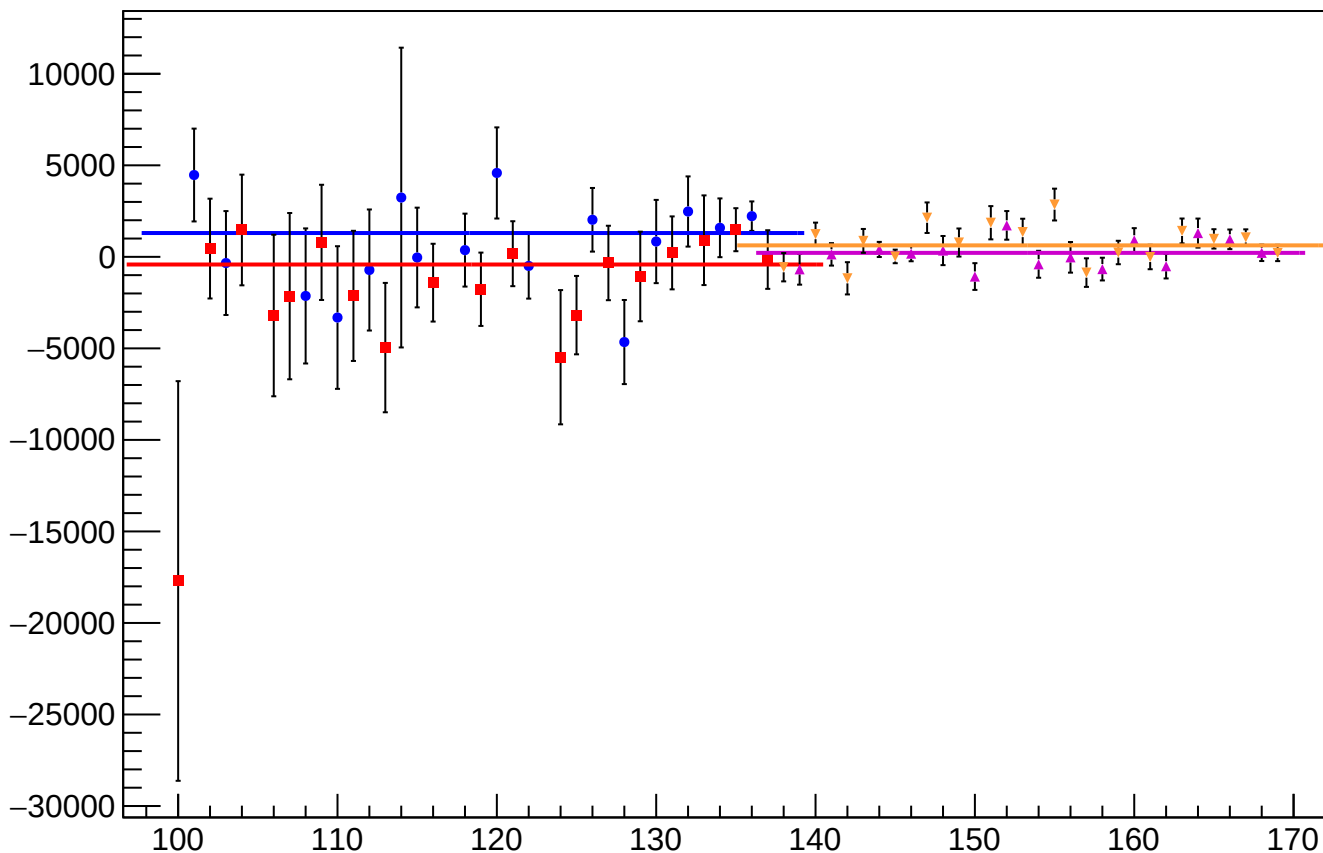
Right: 1275.168+/-0.253 χ^2/NDF : 3999620.7/34

In: 590.396+/-0.105 χ^2/NDF : 7250958.6/30

Out: 576.115+/-0.100 χ^2/NDF : 8720314.3/35

All: 582.920+/-0.073 χ^2/NDF : 15980920.3/66

asym_sam_26_avg_mean vs Slug, Sign Corrected



Right In: 1301.623+/-481.959 χ^2/NDF : 16.5/15

Left Out: 627.125+/-149.189 χ^2/NDF : 31.6/16

Right Out: -418.283+/-524.515 χ^2/NDF : 13.0/18

Left In: 217.561+/-155.809 χ^2/NDF : 17.1/14

Left: 431.229+/-107.757 χ^2/NDF : 52.3/31

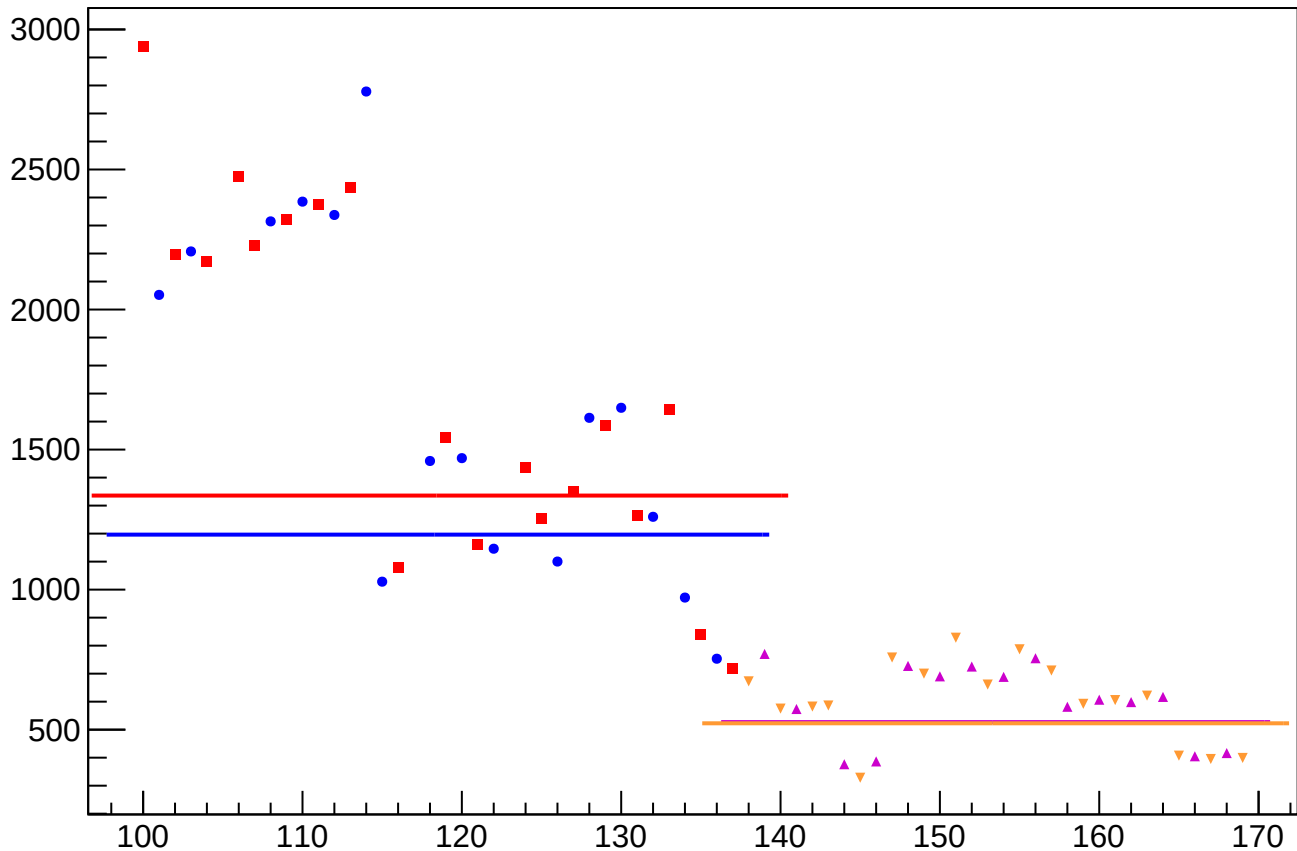
Right: 514.263+/-354.889 χ^2/NDF : 35.3/34

In: 320.138+/-148.255 χ^2/NDF : 38.1/30

Out: 548.880+/-143.497 χ^2/NDF : 48.3/35

All: 438.238+/-103.109 χ^2/NDF : 87.7/66

asym_sam_26_avg_rms vs Slug, Sign Corrected



Right In: 1196.353+/-0.341 χ^2/NDF : 2031710.2/15

Left Out: 522.707+/-0.105 χ^2/NDF :2045560.1/16

Right Out: 1335.809+/-0.371 χ^2/NDF : 1951472.1/18

Left In: 527.086+/-0.110 χ^2/NDF :1591429.7/14

Left: 524.802+/-0.076 χ^2/NDF : 3637814.0/31

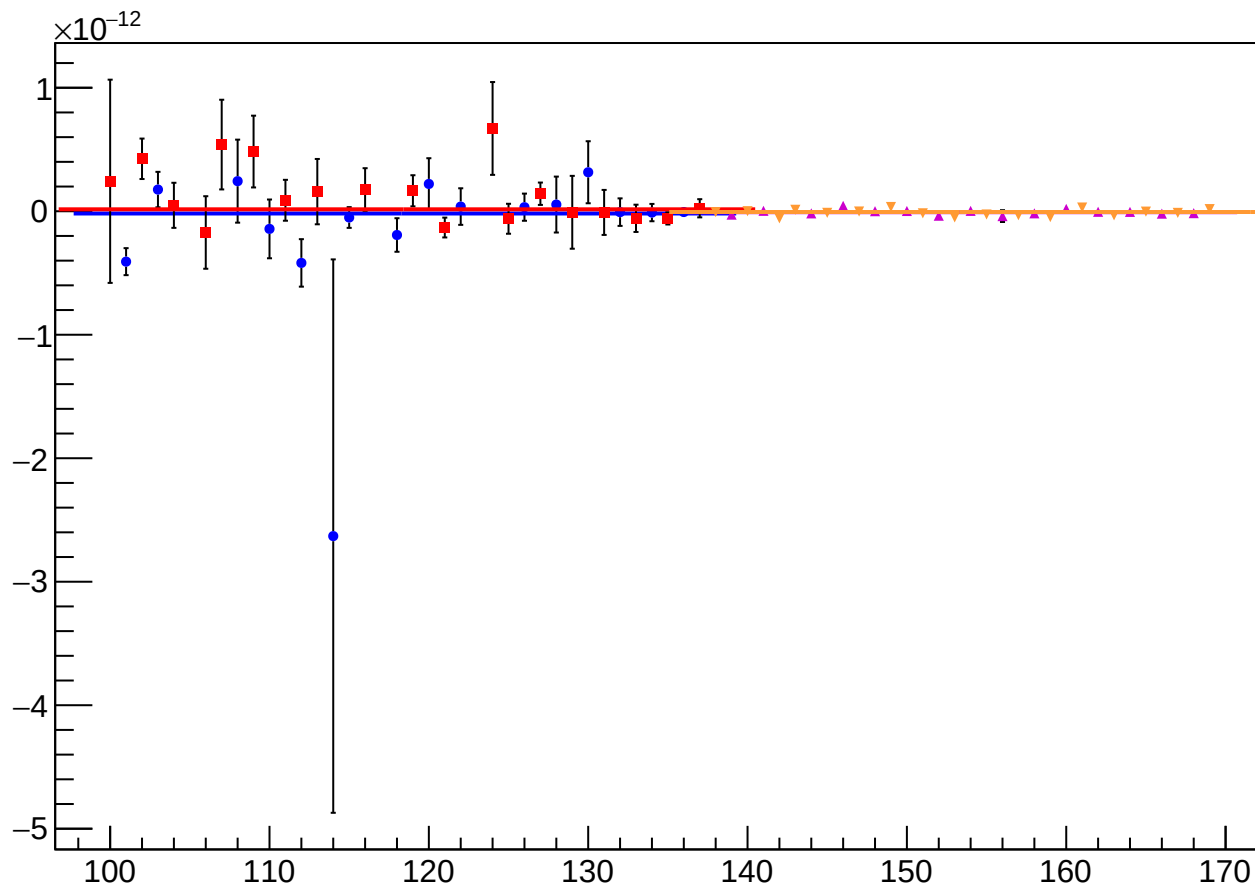
Right: 1260.195+/-0.251 χ^2/NDF : 4059839.9/34

In: 590.414+/-0.105 χ^2/NDF :7114848.5/30

Out: 583.565+/-0.101 χ^2/NDF :8443519.7/35

All: 586.878+/-0.073 χ^2/NDF : 15560572.0/60

asym_sam_26_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 26.8/15

Left Out: -0.000+/-0.000 χ^2/NDF : 16.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 25.6/18

Left In: -0.000+/-0.000 χ^2/NDF : 13.2/14

Left: -0.000+/-0.000 χ^2/NDF : 29.8/31

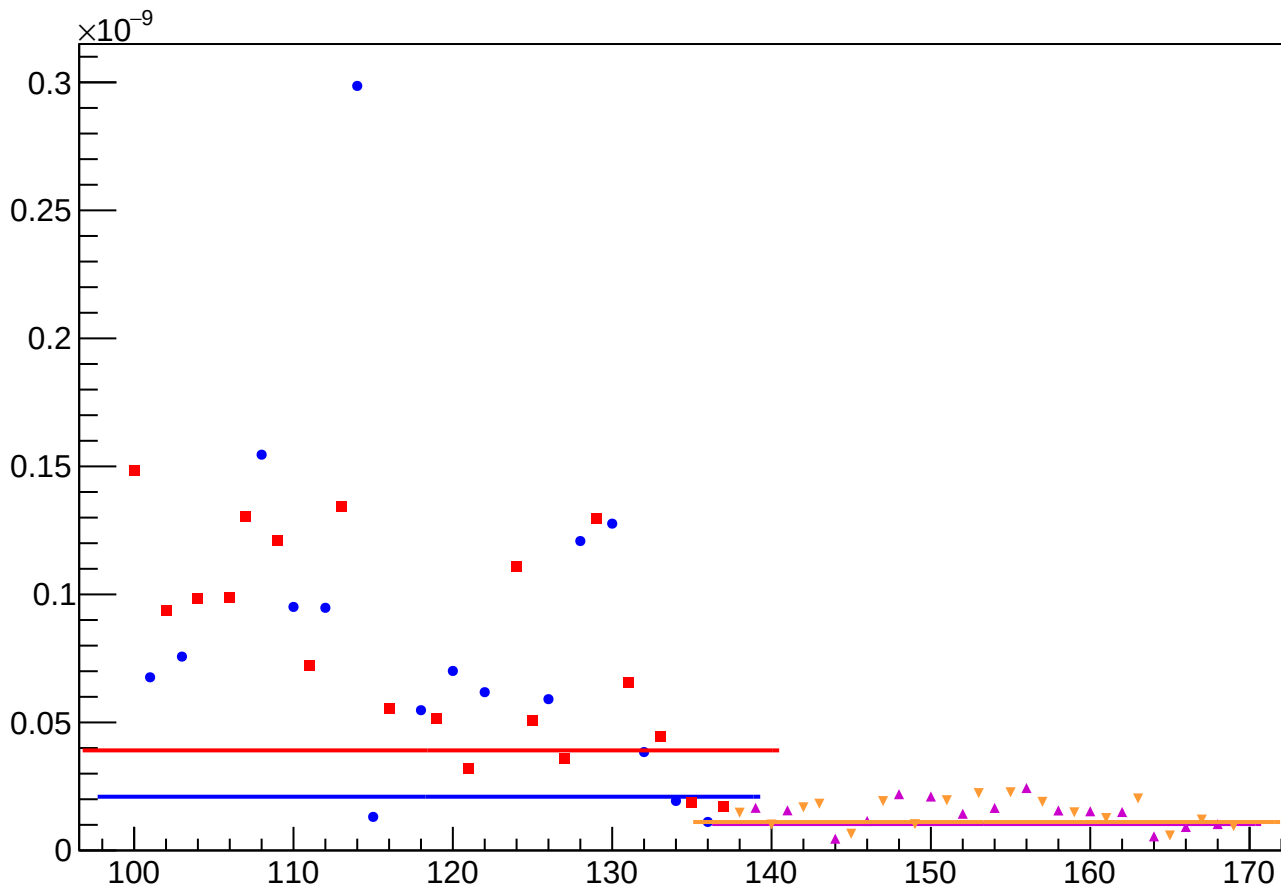
Right: -0.000+/-0.000 χ^2/NDF : 53.5/34

In: -0.000+/-0.000 χ^2/NDF : 40.3/30

Out: -0.000+/-0.000 χ^2/NDF : 42.8/35

All: -0.000+/-0.000 χ^2/NDF : 83.3/66

asym_sam_26_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3380958.5/15

Left Out: 0.000+/-0.000 χ^2/NDF :1826516.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2073862.3/18

Left In: 0.000+/-0.000 χ^2/NDF :2017809.5/14

Left: 0.000+/-0.000 χ^2/NDF : 3866974.2/31

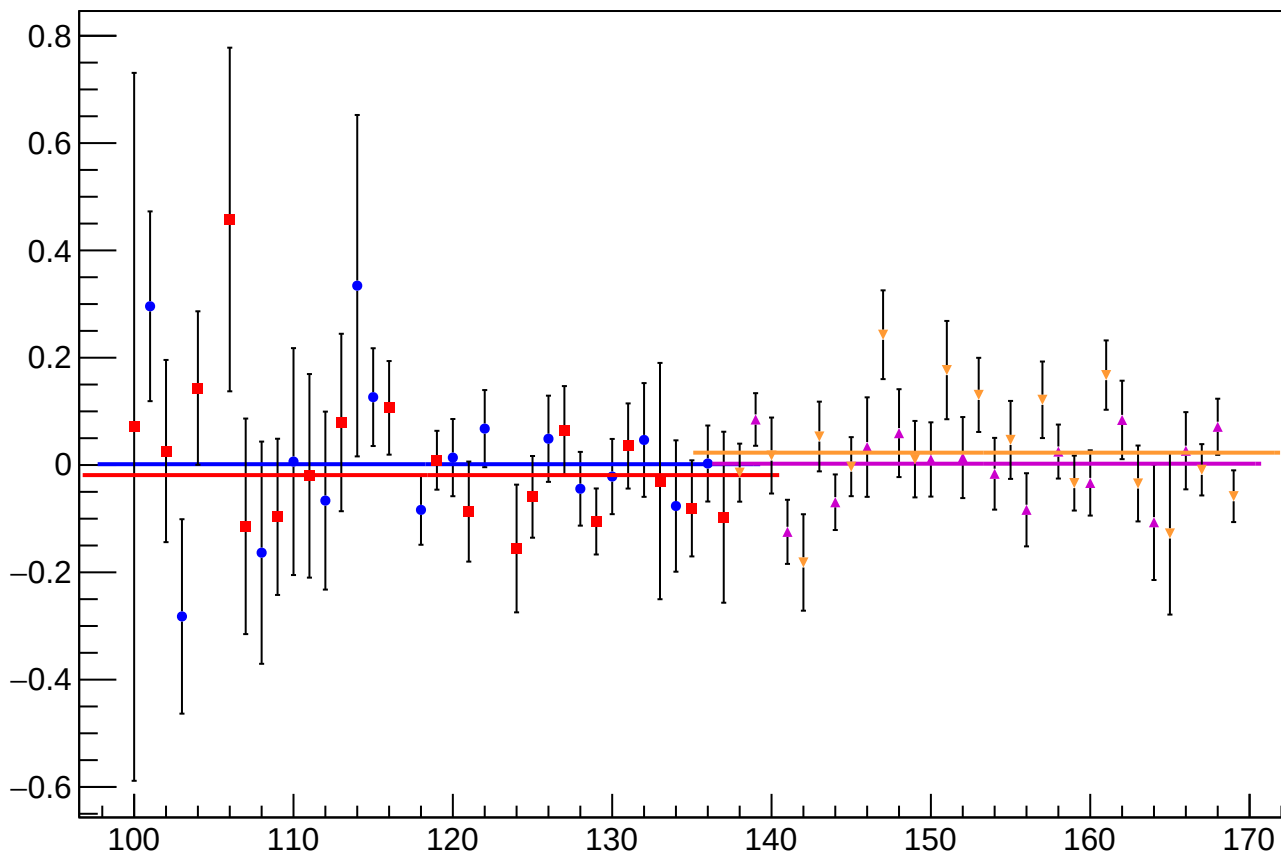
Right: 0.000+/-0.000 χ^2/NDF : 6062420.5/34

In: 0.000+/-0.000 χ^2/NDF :6058108.7/30

Out: 0.000+/-0.000 χ^2/NDF :5888380.4/35

All: 0.000+/-0.000 χ^2/NDF : 11974418.3/66

asym_sam_26_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.023 χ^2 /NDF: 13.1/15

Left Out: 0.023 $\pm$ 0.016 χ^2 /NDF:31.6/16

Right Out: -0.019 $\pm$ 0.024 χ^2 /NDF: 13.1/18

Left In: 0.002 $\pm$ 0.017 χ^2 /NDF:16.2/14

Left: 0.013 $\pm$ 0.011 χ^2 /NDF: 48.7/31

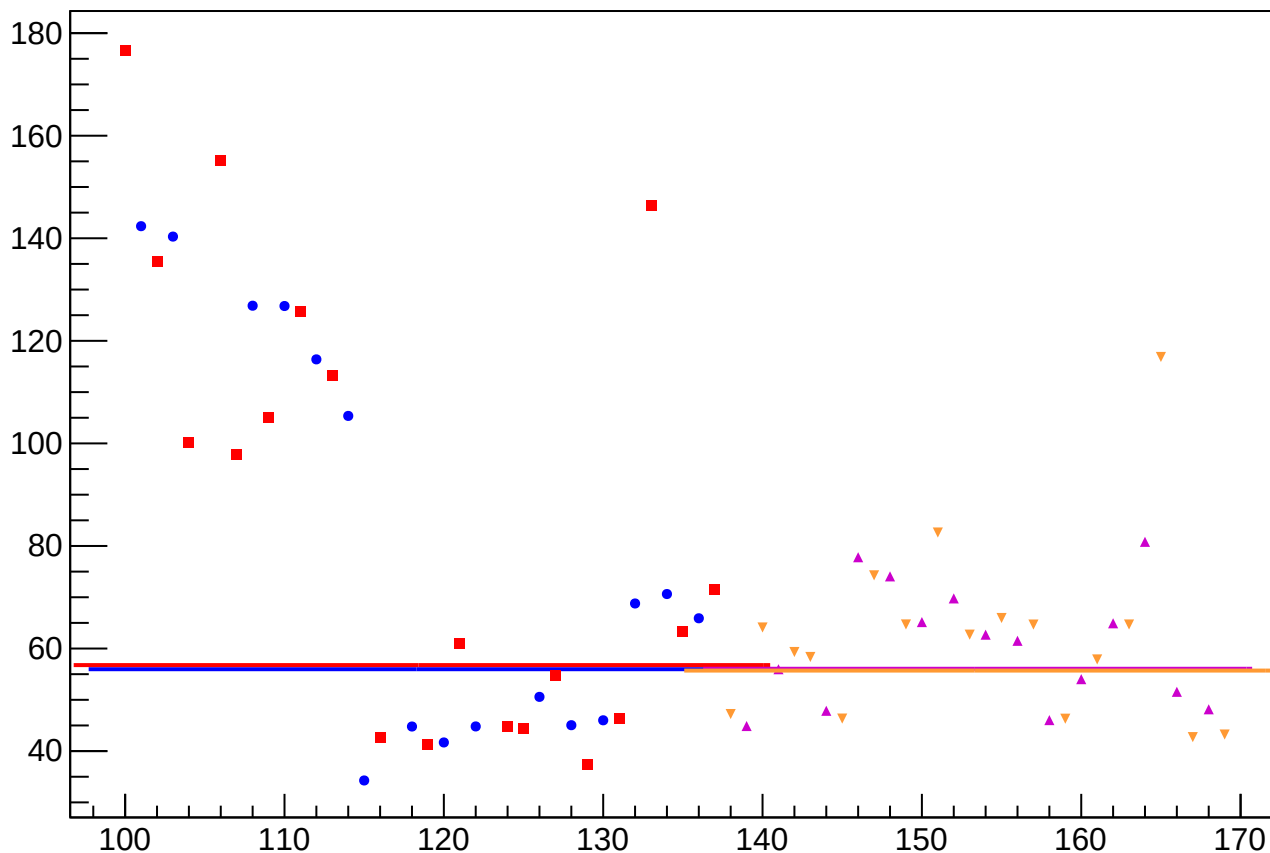
Right: -0.009 $\pm$ 0.017 χ^2 /NDF: 26.6/34

In: 0.002 $\pm$ 0.014 χ^2 /NDF:29.3/30

Out: 0.010 $\pm$ 0.013 χ^2 /NDF:46.9/35

All: 0.006 $\pm$ 0.009 χ^2 /NDF: 76.4/66

asym_sam_26_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 55.968 $\pm$ 0.017 χ^2 /NDF: 2179829.3/15

Left Out: 55.703 $\pm$ 0.011 χ^2 /NDF:1248968.9/16

Right Out: 56.770 $\pm$ 0.017 χ^2 /NDF: 2553223.5/18

Left In: 56.054 $\pm$ 0.012 χ^2 /NDF:763701.6/14

Left: 55.870 $\pm$ 0.008 χ^2 /NDF: 2013143.9/31

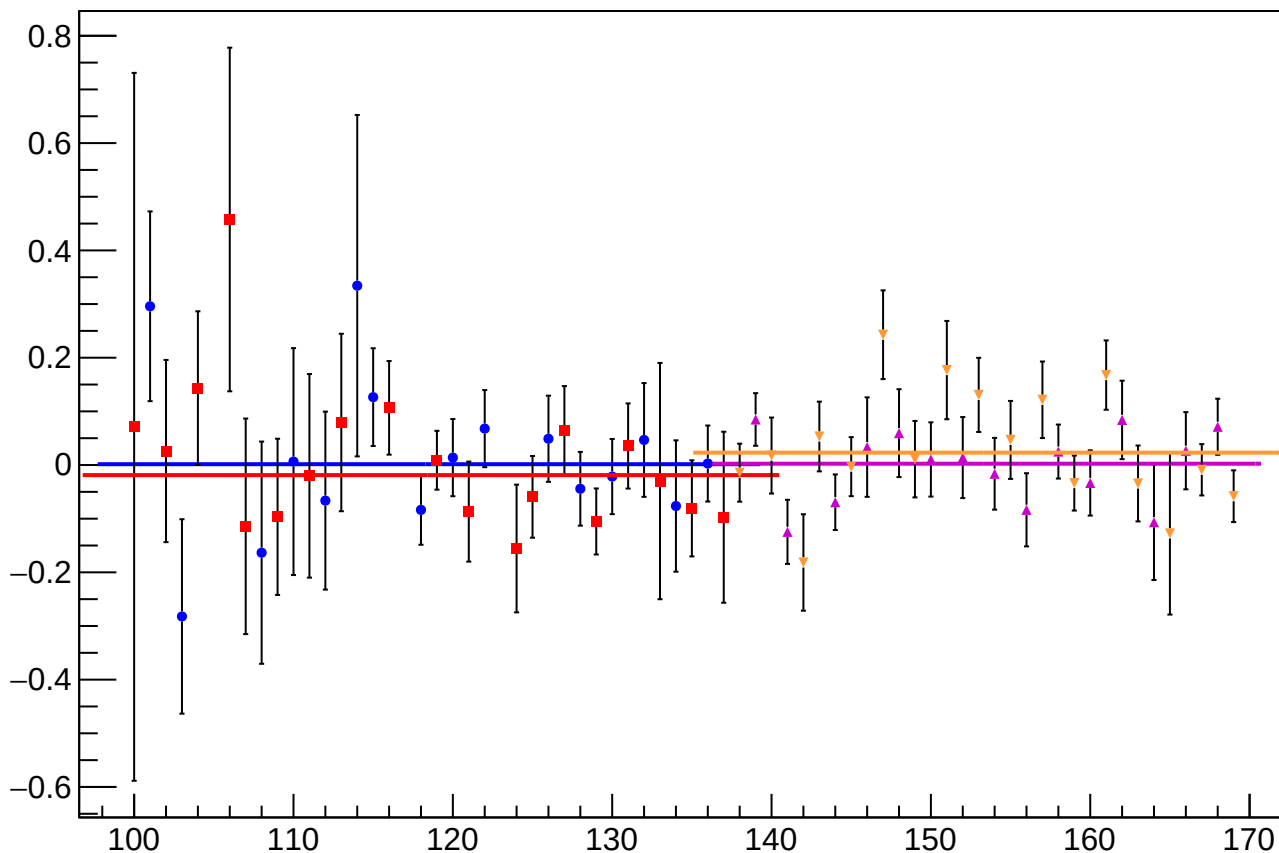
Right: 56.368 $\pm$ 0.012 χ^2 /NDF: 4734221.0/34

In: 56.026 $\pm$ 0.010 χ^2 /NDF:2943548.9/30

Out: 56.034 $\pm$ 0.009 χ^2 /NDF:3805036.5/35

All: 56.030 $\pm$ 0.007 χ^2 /NDF: 6748585.8/66

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 ± 0.023 $\chi^2/\text{NDF}: 13.1/15$

Left Out: 0.023 ± 0.016 $\chi^2/\text{NDF}: 31.6/16$

Right Out: -0.019 ± 0.024 $\chi^2/\text{NDF}: 13.1/18$

Left In: 0.002 ± 0.017 $\chi^2/\text{NDF}: 16.2/14$

Left: 0.013 ± 0.011 $\chi^2/\text{NDF}: 48.7/31$

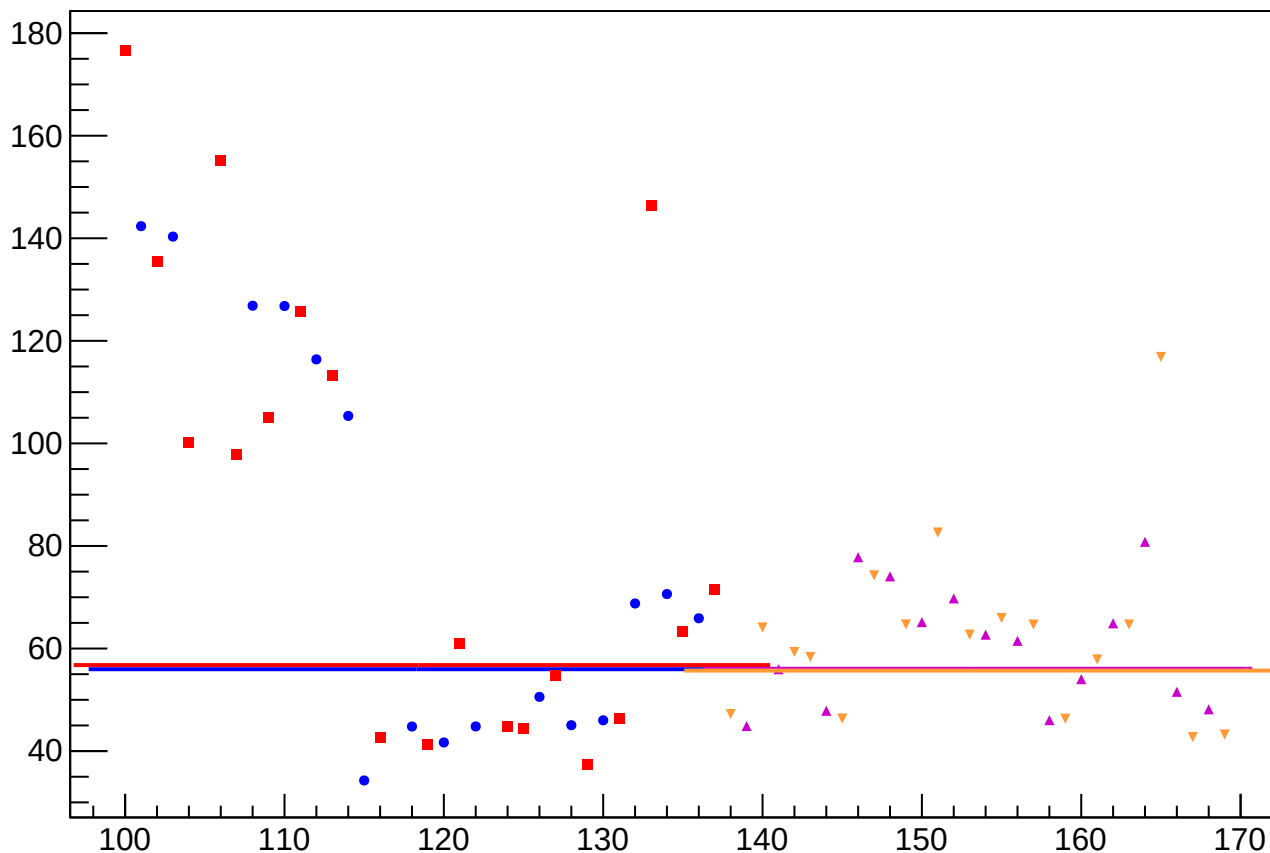
Right: -0.009 ± 0.017 $\chi^2/\text{NDF}: 26.6/34$

In: 0.002 ± 0.014 $\chi^2/\text{NDF}: 29.3/30$

Out: 0.010 ± 0.013 $\chi^2/\text{NDF}: 46.9/35$

All: 0.006 ± 0.009 $\chi^2/\text{NDF}: 76.4/66$

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 55.968+/-0.017 χ^2/NDF : 2179829.3/15

Left Out: 55.703+/-0.011 χ^2/NDF : 1248968.9/16

Right Out: 56.770+/-0.017 χ^2/NDF : 2553223.5/18

Left In: 56.054+/-0.012 χ^2/NDF : 763701.6/14

Left: 55.870+/-0.008 χ^2/NDF : 2013143.9/31

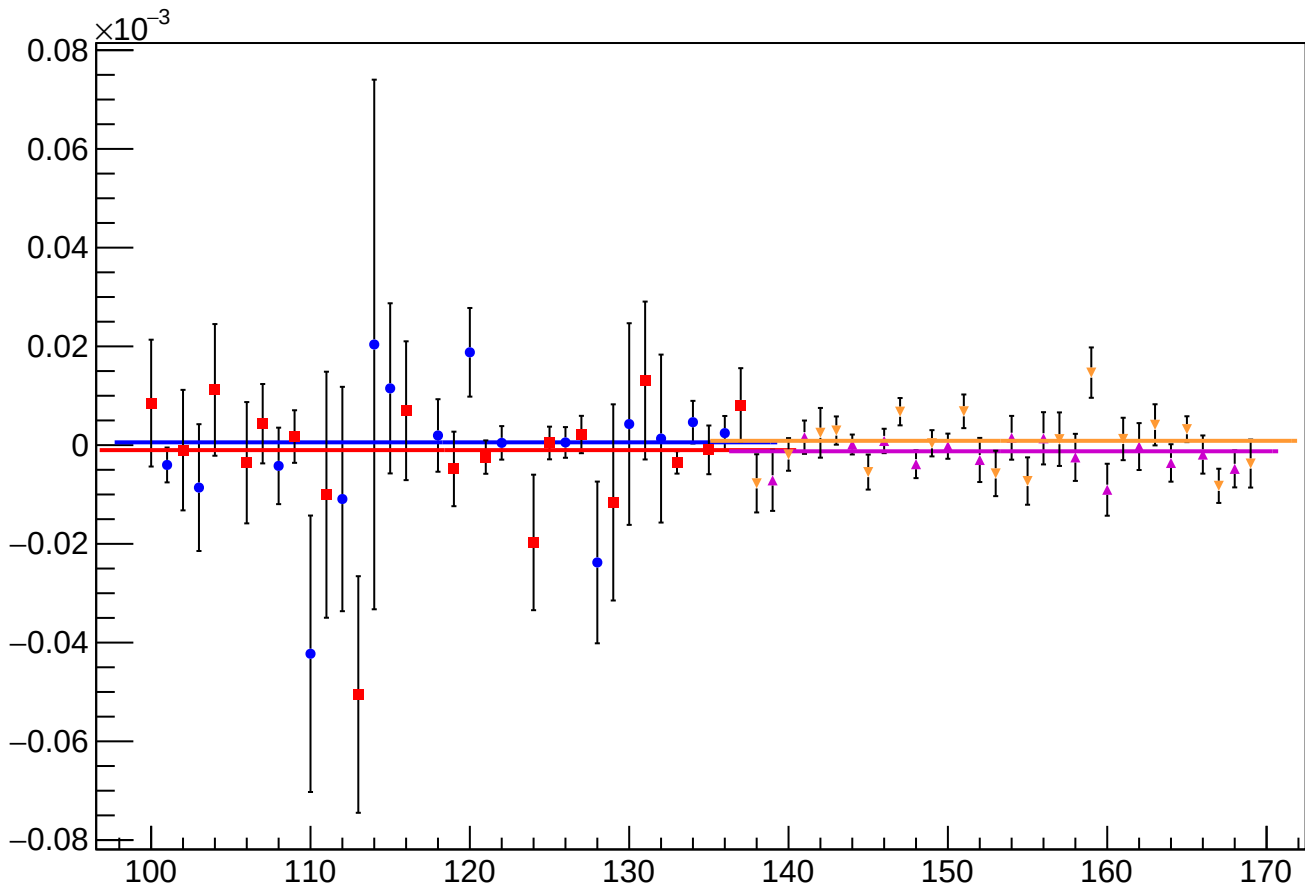
Right: 56.368+/-0.012 χ^2/NDF : 4734221.0/34

In: 56.026+/-0.010 χ^2/NDF : 2943548.9/30

Out: 56.034+/-0.009 χ^2/NDF : 3805036.5/35

All: 56.030+/-0.007 χ^2/NDF : 6748585.8/66

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 13.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 35.8/16

Right Out: -0.000+/-0.000 χ^2/NDF : 13.8/18

Left In: -0.000+/-0.000 χ^2/NDF : 8.2/14

Left: -0.000+/-0.000 χ^2/NDF : 46.9/31

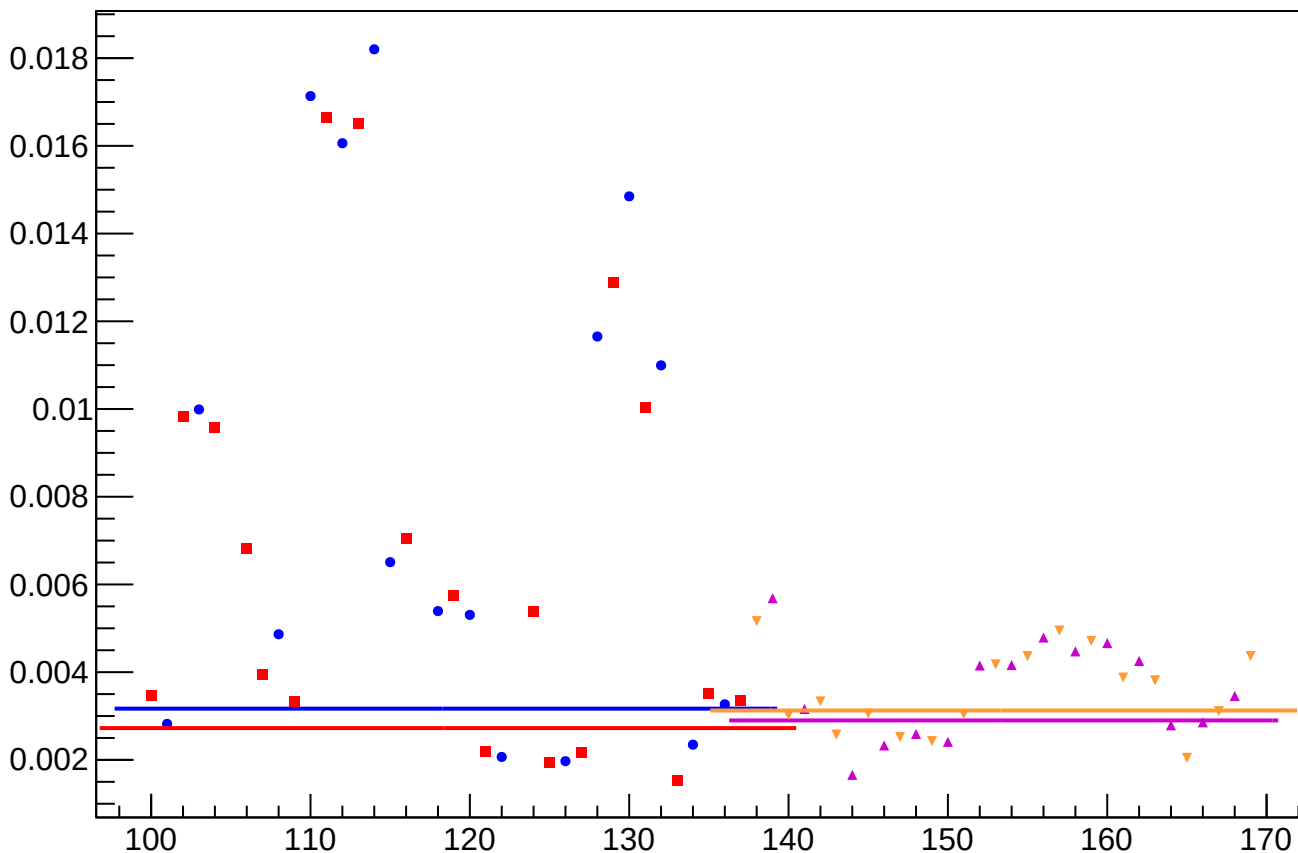
Right: -0.000+/-0.000 χ^2/NDF : 27.8/34

In: -0.000+/-0.000 χ^2/NDF : 22.7/30

Out: 0.000+/-0.000 χ^2/NDF : 51.1/35

All: -0.000+/-0.000 χ^2/NDF : 74.7/66

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4545616.6/15

Left Out: 0.003+/-0.000 χ^2/NDF :1797941.9/16

Right Out: 0.003+/-0.000 χ^2/NDF : 5153213.6/18

Left In: 0.003+/-0.000 χ^2/NDF :2606218.8/14

Left: 0.003+/-0.000 χ^2/NDF : 4469299.0/31

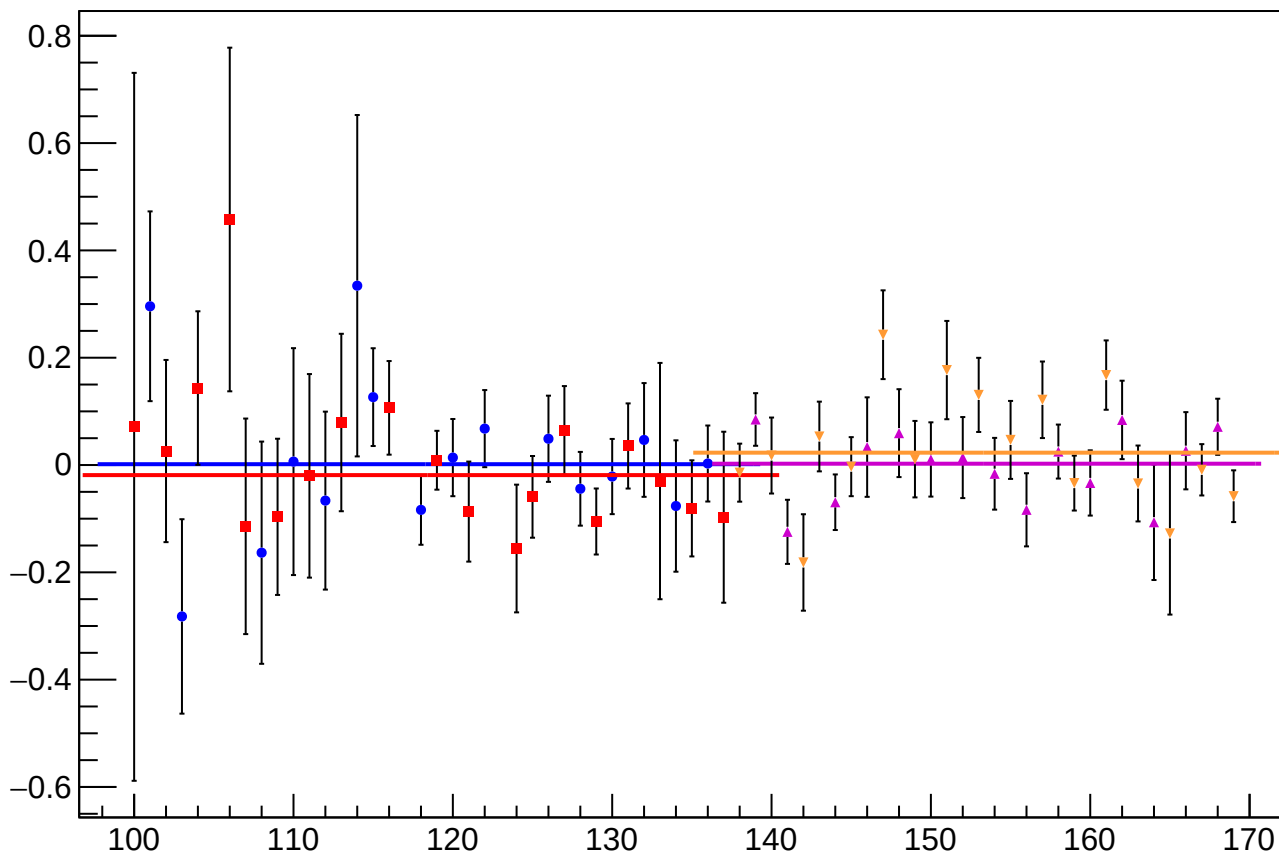
Right: 0.003+/-0.000 χ^2/NDF : 9804761.7/34

In: 0.003+/-0.000 χ^2/NDF :7202002.4/30

Out: 0.003+/-0.000 χ^2/NDF :7084765.0/35

All: 0.003+/-0.000 χ^2/NDF : 14287627.4/66

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.023 χ^2 /NDF: 13.1/15

Left Out: 0.023 $\pm$ 0.016 χ^2 /NDF:31.6/16

Right Out: -0.019 $\pm$ 0.024 χ^2 /NDF: 13.1/18

Left In: 0.002 $\pm$ 0.017 χ^2 /NDF:16.2/14

Left: 0.013 $\pm$ 0.011 χ^2 /NDF: 48.7/31

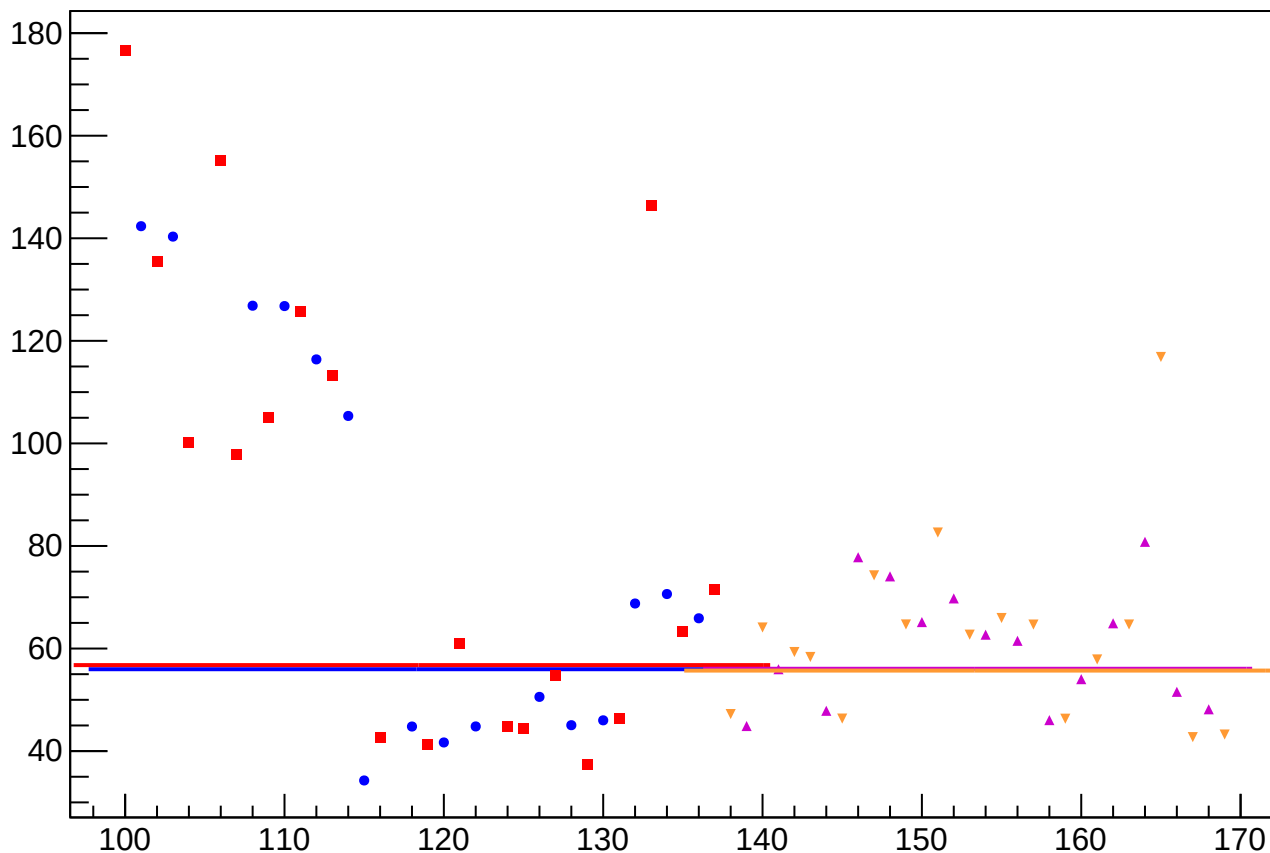
Right: -0.009 $\pm$ 0.017 χ^2 /NDF: 26.6/34

In: 0.002 $\pm$ 0.014 χ^2 /NDF:29.3/30

Out: 0.010 $\pm$ 0.013 χ^2 /NDF:46.9/35

All: 0.006 $\pm$ 0.009 χ^2 /NDF: 76.4/66

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 55.968 $\pm$ 0.017 χ^2 /NDF: 2179757.6/15

Left Out: 55.703 $\pm$ 0.011 χ^2 /NDF:1248946.8/16

Right Out: 56.770 $\pm$ 0.017 χ^2 /NDF: 2553168.3/18

Left In: 56.055 $\pm$ 0.012 χ^2 /NDF:763696.2/14

Left: 55.871 $\pm$ 0.008 χ^2 /NDF: 2013116.5/31

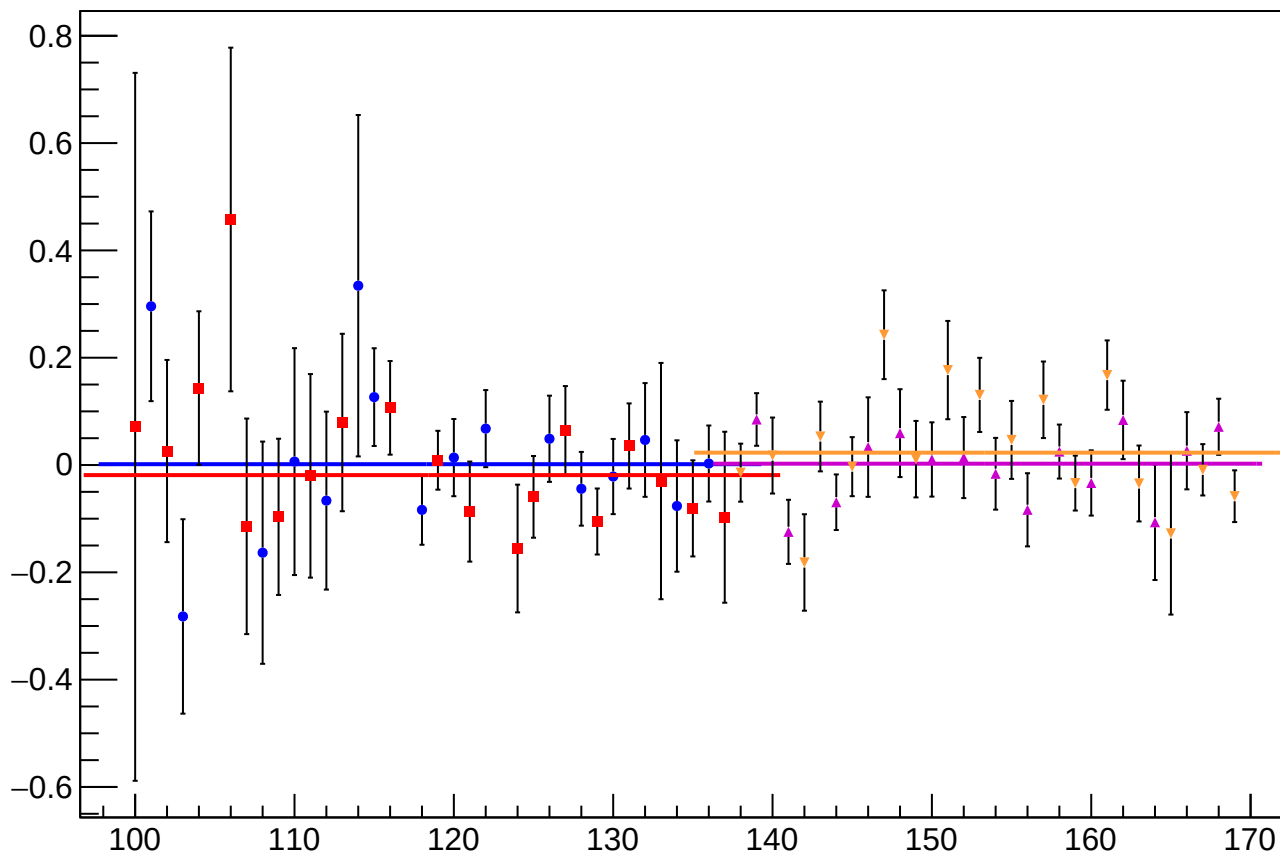
Right: 56.367 $\pm$ 0.012 χ^2 /NDF: 4734093.5/34

In: 56.026 $\pm$ 0.010 χ^2 /NDF:2943472.2/30

Out: 56.034 $\pm$ 0.009 χ^2 /NDF:3804953.6/35

All: 56.030 $\pm$ 0.007 χ^2 /NDF: 6748426.1/66

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.023 χ^2 /NDF: 13.1/15

Left Out: 0.023 $\pm$ 0.016 χ^2 /NDF:31.6/16

Right Out: -0.019 $\pm$ 0.024 χ^2 /NDF: 13.1/18

Left In: 0.002 $\pm$ 0.017 χ^2 /NDF:16.2/14

Left: 0.013 $\pm$ 0.011 χ^2 /NDF: 48.7/31

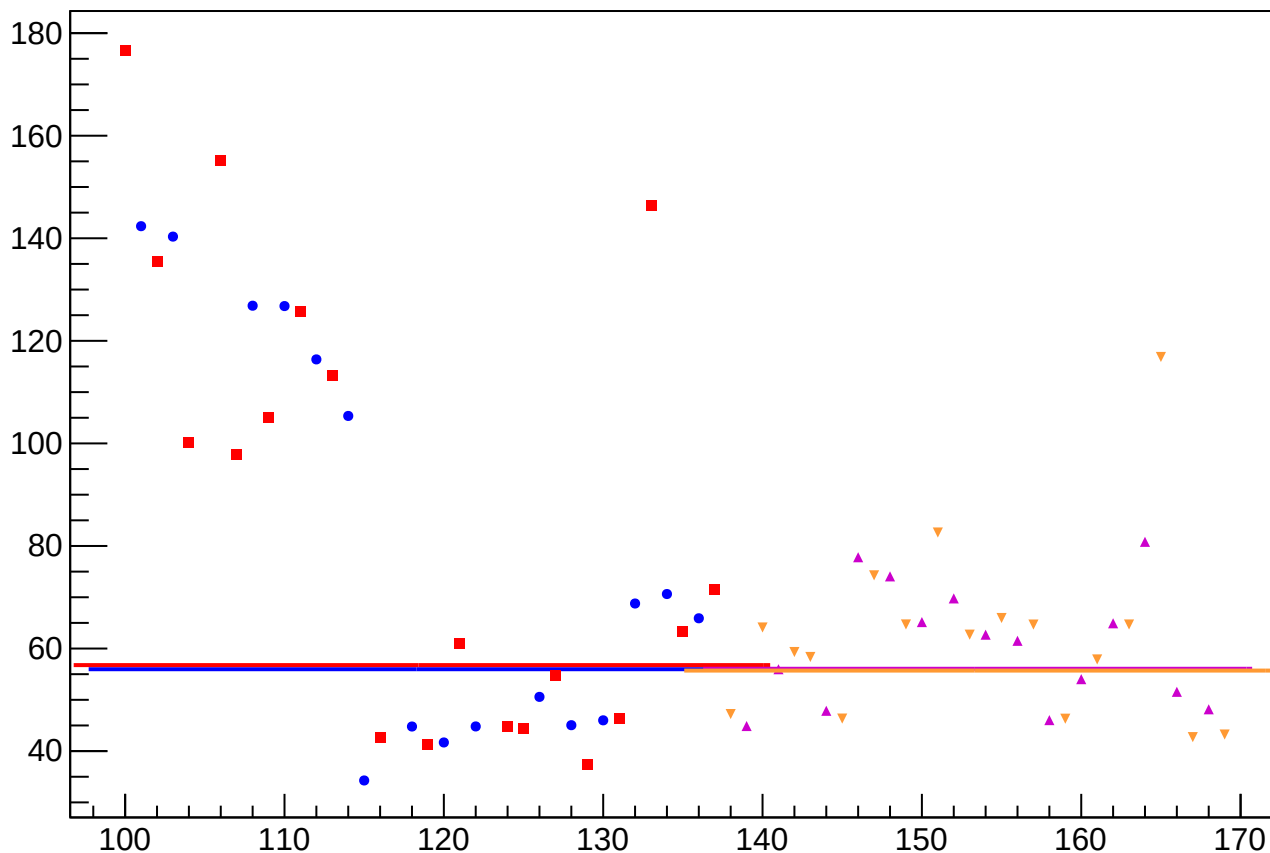
Right: -0.009 $\pm$ 0.017 χ^2 /NDF: 26.6/34

In: 0.002 $\pm$ 0.014 χ^2 /NDF:29.3/30

Out: 0.010 $\pm$ 0.013 χ^2 /NDF:46.9/35

All: 0.006 $\pm$ 0.009 χ^2 /NDF: 76.4/66

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 55.968 $\pm$ 0.017 χ^2 /NDF: 2179757.6/15

Left Out: 55.703 $\pm$ 0.011 χ^2 /NDF:1248946.8/16

Right Out: 56.770 $\pm$ 0.017 χ^2 /NDF: 2553168.3/18

Left In: 56.055 $\pm$ 0.012 χ^2 /NDF:763696.2/14

Left: 55.871 $\pm$ 0.008 χ^2 /NDF: 2013116.5/31

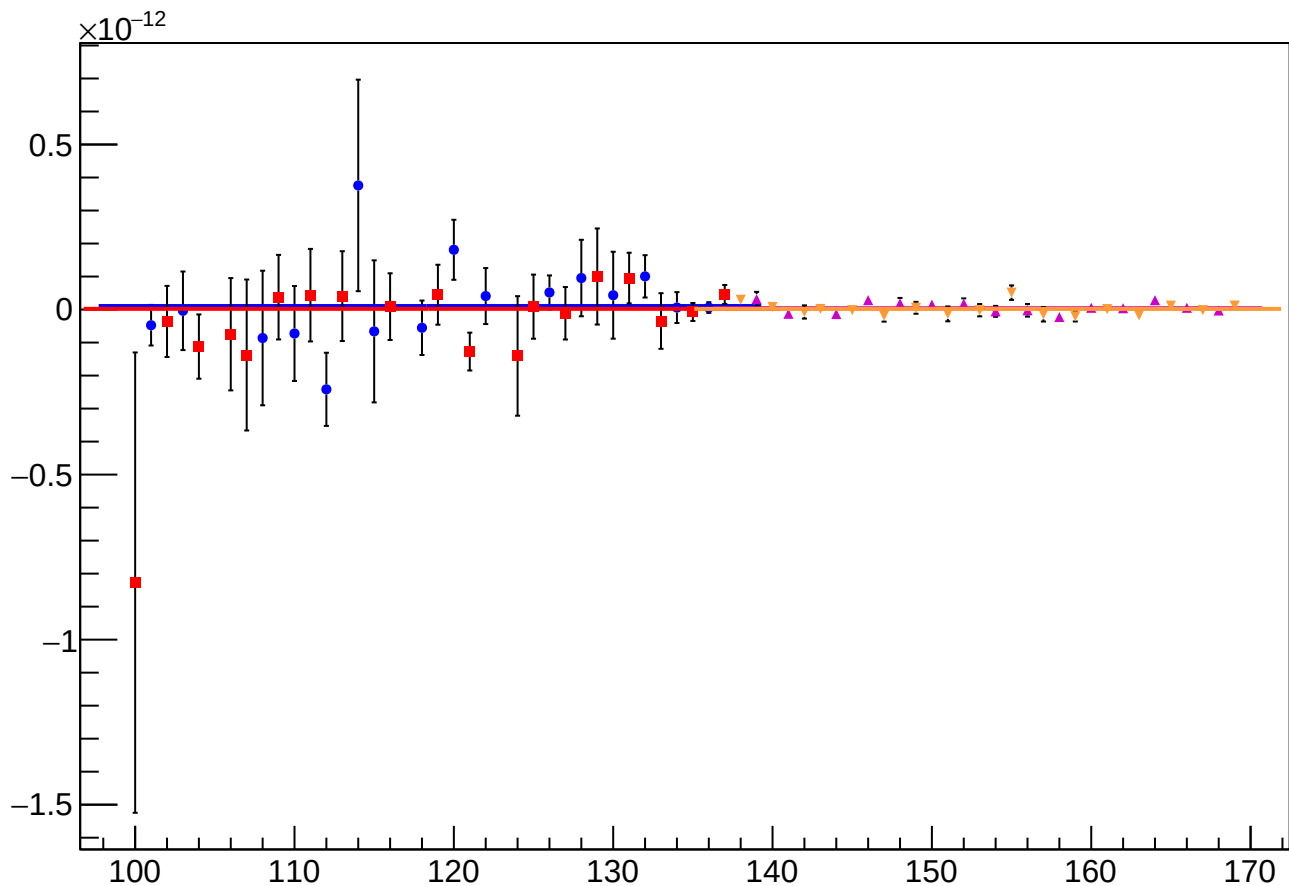
Right: 56.367 $\pm$ 0.012 χ^2 /NDF: 4734093.5/34

In: 56.026 $\pm$ 0.010 χ^2 /NDF:2943472.2/30

Out: 56.034 $\pm$ 0.009 χ^2 /NDF:3804953.6/35

All: 56.030 $\pm$ 0.007 χ^2 /NDF: 6748426.1/66

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 19.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 14.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 27.8/14

Left: 0.000+/-0.000 χ^2/NDF : 47.5/31

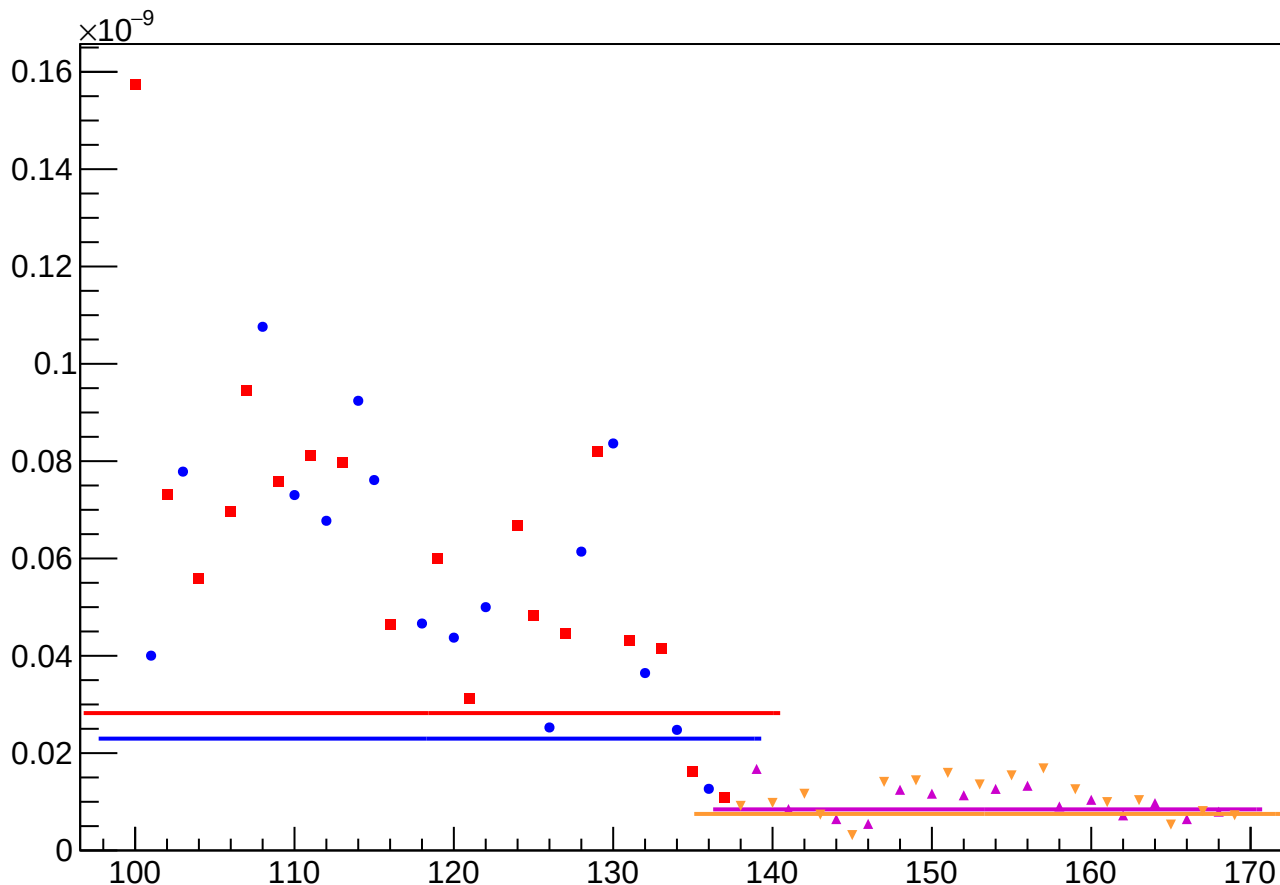
Right: 0.000+/-0.000 χ^2/NDF : 30.1/34

In: 0.000+/-0.000 χ^2/NDF : 43.7/30

Out: 0.000+/-0.000 χ^2/NDF : 33.7/35

All: 0.000+/-0.000 χ^2/NDF : 77.7/66

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3731982.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :3819860.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3820523.4/18

Left In: 0.000+/-0.000 χ^2/NDF :1364902.4/14

Left: 0.000+/-0.000 χ^2/NDF : 5284874.3/31

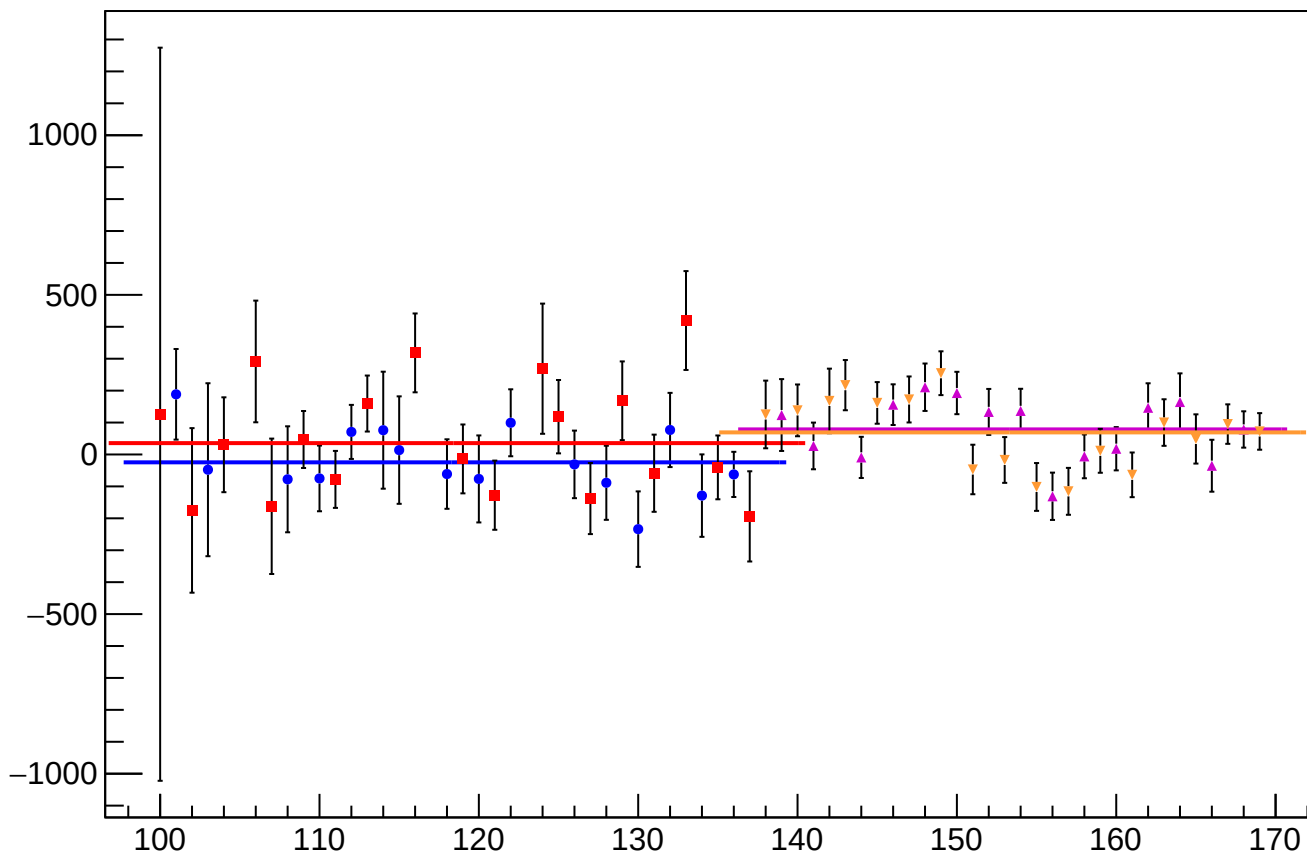
Right: 0.000+/-0.000 χ^2/NDF : 7687404.1/34

In: 0.000+/-0.000 χ^2/NDF :7475635.4/30

Out: 0.000+/-0.000 χ^2/NDF :11100652.3/35

All: 0.000+/-0.000 χ^2/NDF : 18712999.6/66

reg_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -24.632 ± 28.913 $\chi^2/\text{NDF}: 11.0/15$

Left Out: 69.171 ± 17.670 $\chi^2/\text{NDF}: 36.8/16$

Right Out: 35.582 ± 28.454 $\chi^2/\text{NDF}: 30.1/18$

Left In: 78.545 ± 18.475 $\chi^2/\text{NDF}: 25.4/14$

Left: 73.650 ± 12.770 $\chi^2/\text{NDF}: 62.3/31$

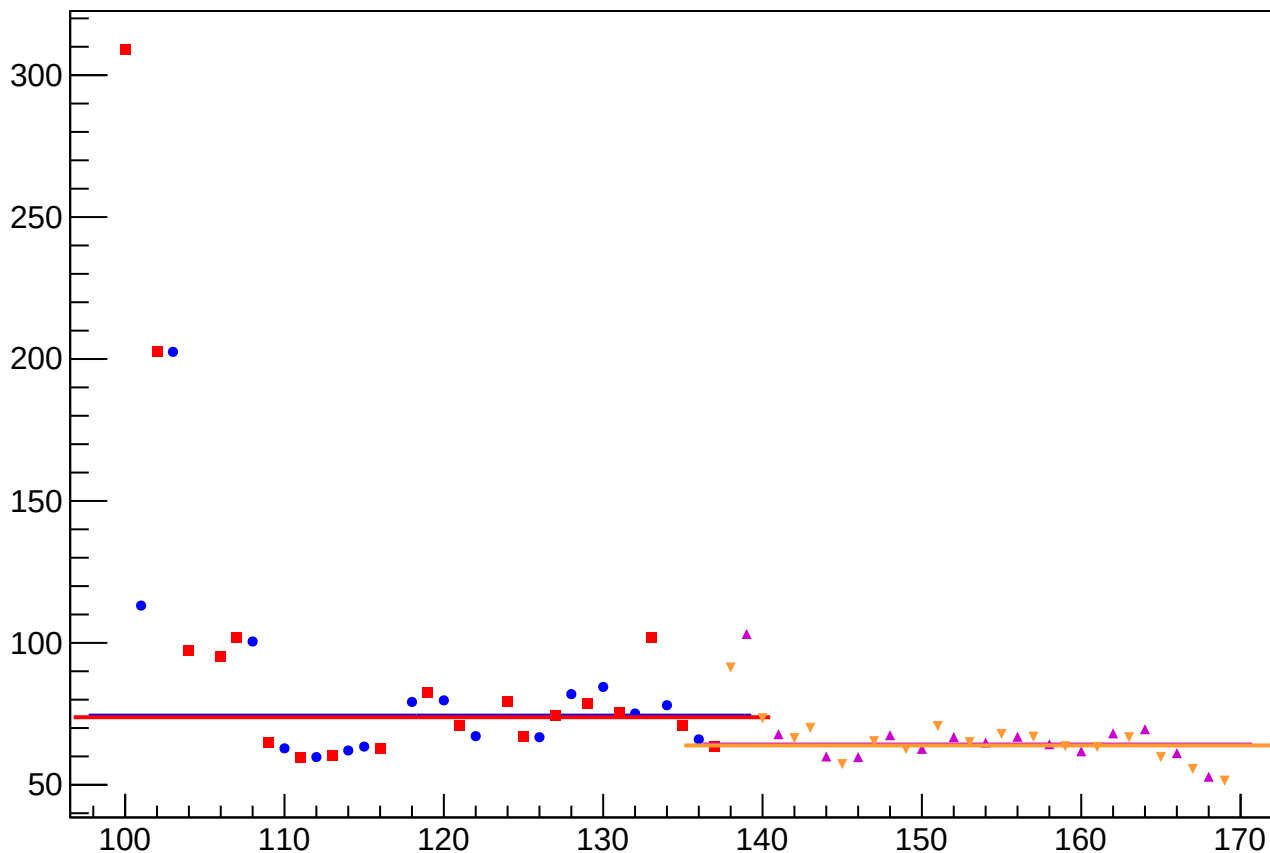
Right: 5.956 ± 20.280 $\chi^2/\text{NDF}: 43.3/34$

In: 48.630 ± 15.568 $\chi^2/\text{NDF}: 45.4/30$

Out: 59.823 ± 15.011 $\chi^2/\text{NDF}: 67.9/35$

All: 54.430 ± 10.806 $\chi^2/\text{NDF}: 113.6/66$

reg_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 74.369+/-0.020 χ^2/NDF : 827583.1/15

Left Out: 63.870+/-0.012 χ^2/NDF : 361798.8/16

Right Out: 73.815+/-0.020 χ^2/NDF : 931949.0/18

Left In: 64.185+/-0.013 χ^2/NDF : 370823.1/14

Left: 64.021+/-0.009 χ^2/NDF : 732923.9/31

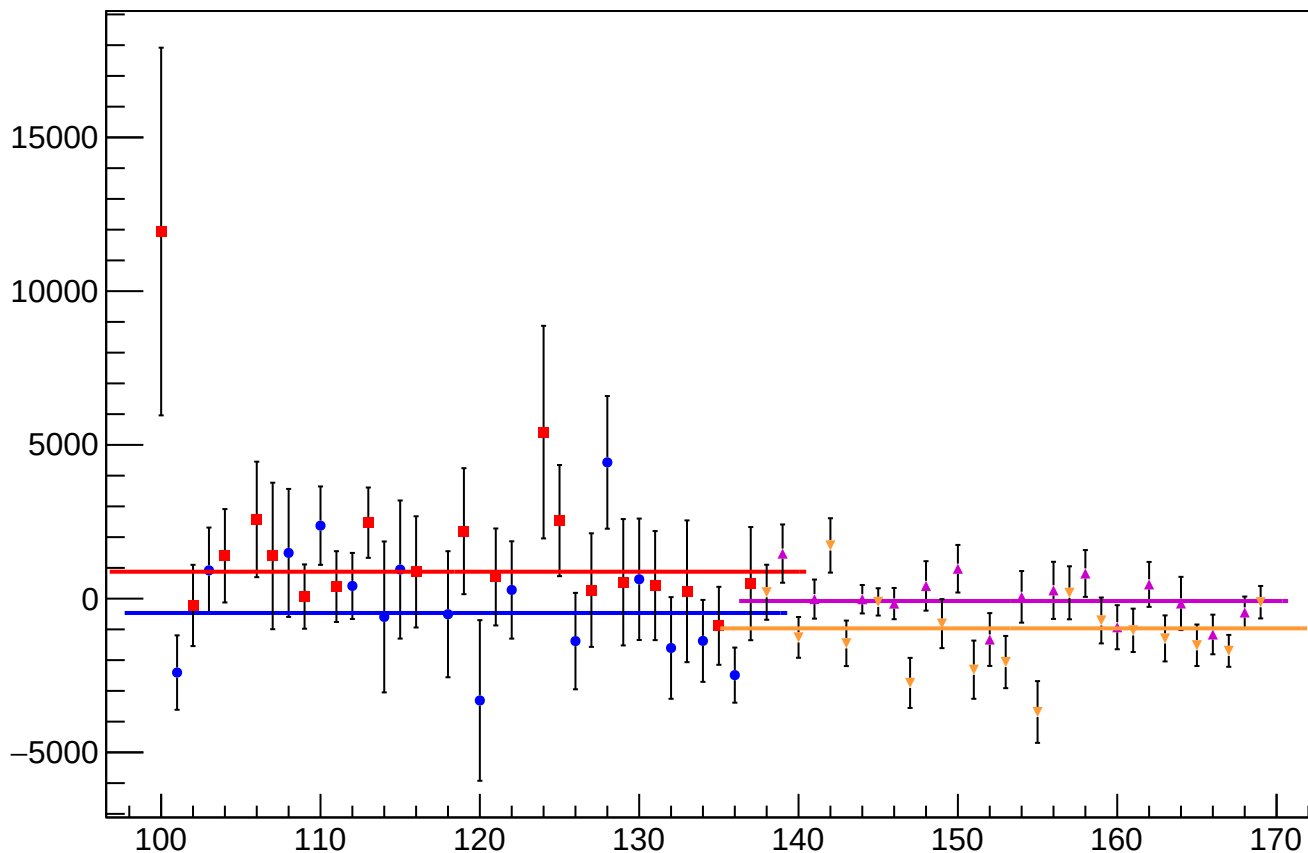
Right: 74.088+/-0.014 χ^2/NDF : 1759905.2/34

In: 67.137+/-0.011 χ^2/NDF : 1374611.0/30

Out: 66.638+/-0.011 χ^2/NDF : 1470041.4/35

All: 66.879+/-0.008 χ^2/NDF : 2845718.3/66

asym_sam_37_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -466.524+/-375.030 χ^2/NDF : 23.7/15

Left Out: -966.688+/-169.729 χ^2/NDF :38.6/16

Right Out: 875.351+/-372.239 χ^2/NDF : 13.1/18

Left In: -77.123+/-175.927 χ^2/NDF :13.9/14

Left: -537.851+/-122.149 χ^2/NDF : 65.7/31

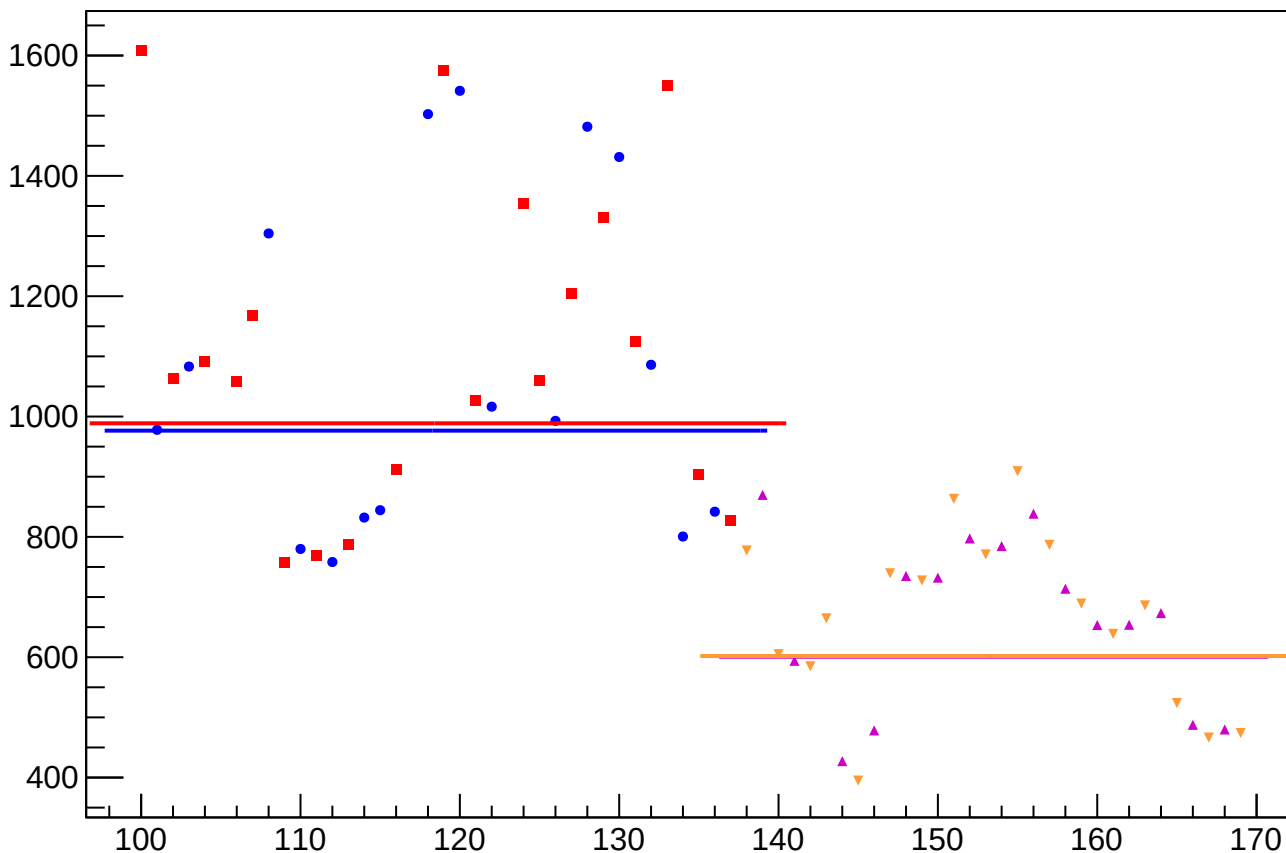
Right: 209.426+/-264.194 χ^2/NDF : 43.2/34

In: -147.358+/-159.273 χ^2/NDF :38.5/30

Out: -649.633+/-154.433 χ^2/NDF :71.9/35

All: -406.244+/-110.872 χ^2/NDF : 115.5/66

asym_sam_37_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 976.583 $\pm$ 0.265 χ^2 /NDF: 736605.1/15

Left Out: 601.942 $\pm$ 0.120 χ^2 /NDF: 1482675.5/16

Right Out: 988.763 $\pm$ 0.263 χ^2 /NDF: 715703.4/18

Left In: 600.764 $\pm$ 0.124 χ^2 /NDF: 1254293.2/14

Left: 601.374 $\pm$ 0.086 χ^2 /NDF: 2737015.0/31

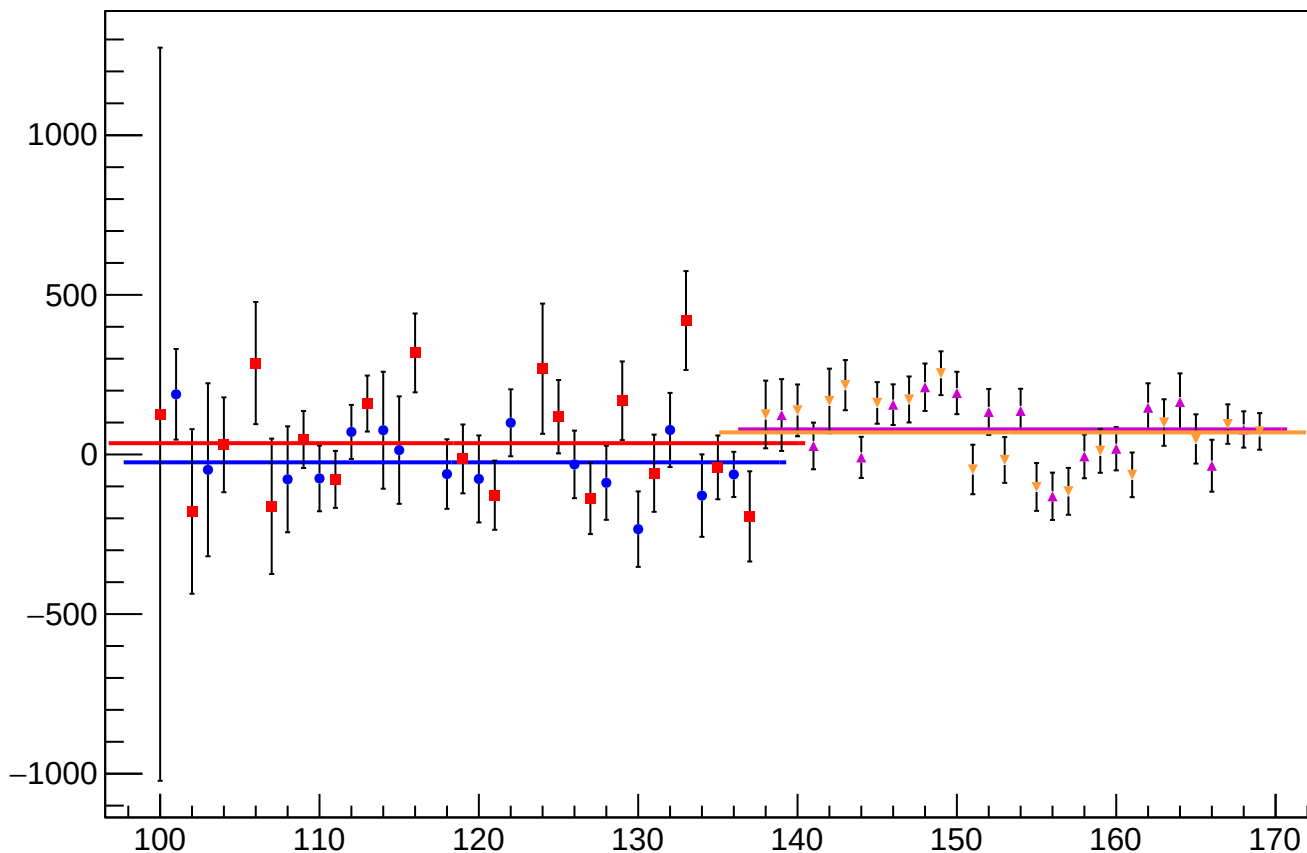
Right: 982.718 $\pm$ 0.187 χ^2 /NDF: 1453371.3/34

In: 668.549 $\pm$ 0.113 χ^2 /NDF: 3637067.7/30

Out: 668.522 $\pm$ 0.109 χ^2 /NDF: 3986407.0/35

All: 668.535 $\pm$ 0.078 χ^2 /NDF: 7623474.7/66

cor_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -24.640 ± 28.913 $\chi^2/\text{NDF}: 11.0/15$

Left Out: 69.176 ± 17.670 $\chi^2/\text{NDF}: 36.8/16$

Right Out: 35.383 ± 28.457 $\chi^2/\text{NDF}: 30.0/18$

Left In: 78.545 ± 18.475 $\chi^2/\text{NDF}: 25.4/14$

Left: 73.652 ± 12.770 $\chi^2/\text{NDF}: 62.3/31$

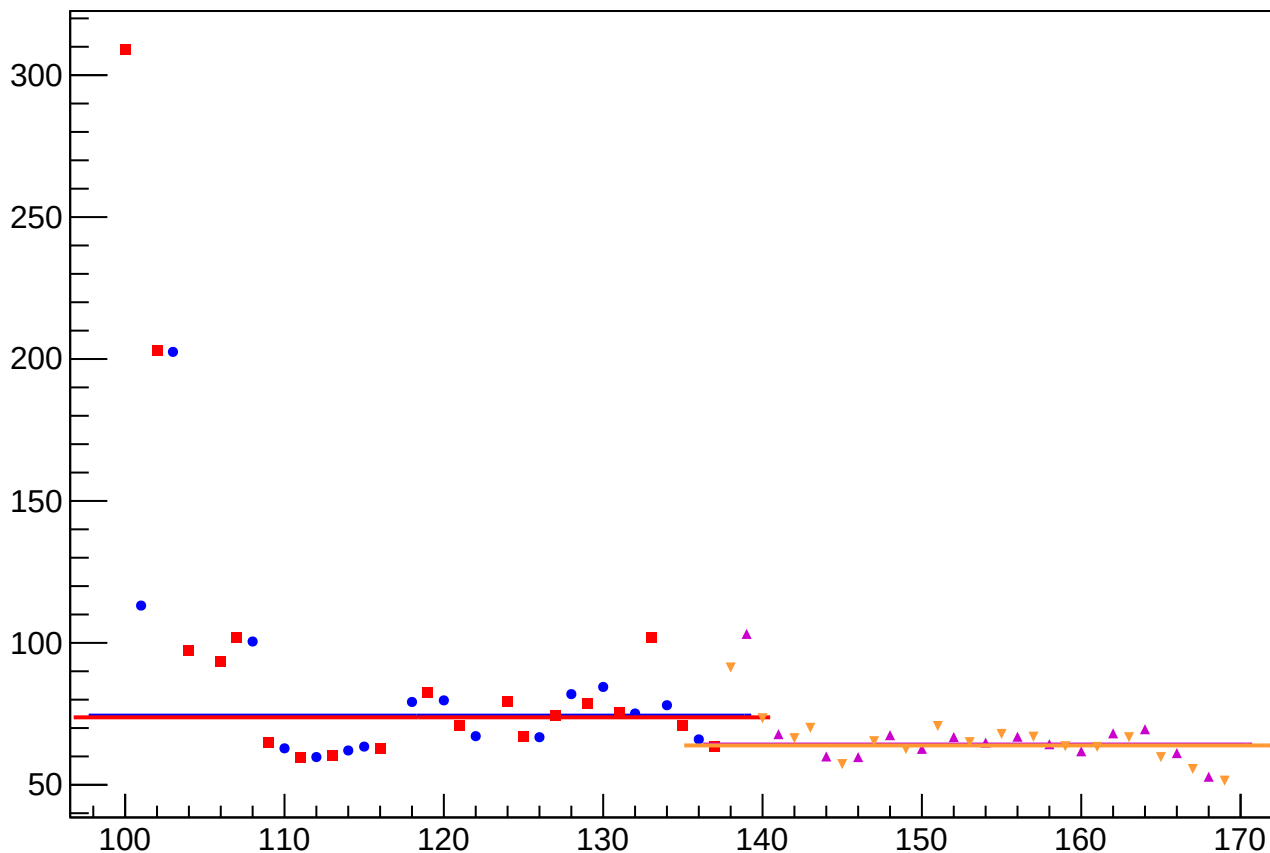
Right: 5.848 ± 20.281 $\chi^2/\text{NDF}: 43.2/34$

In: 48.628 ± 15.568 $\chi^2/\text{NDF}: 45.4/30$

Out: 59.772 ± 15.012 $\chi^2/\text{NDF}: 67.9/35$

All: 54.403 ± 10.806 $\chi^2/\text{NDF}: 113.5/66$

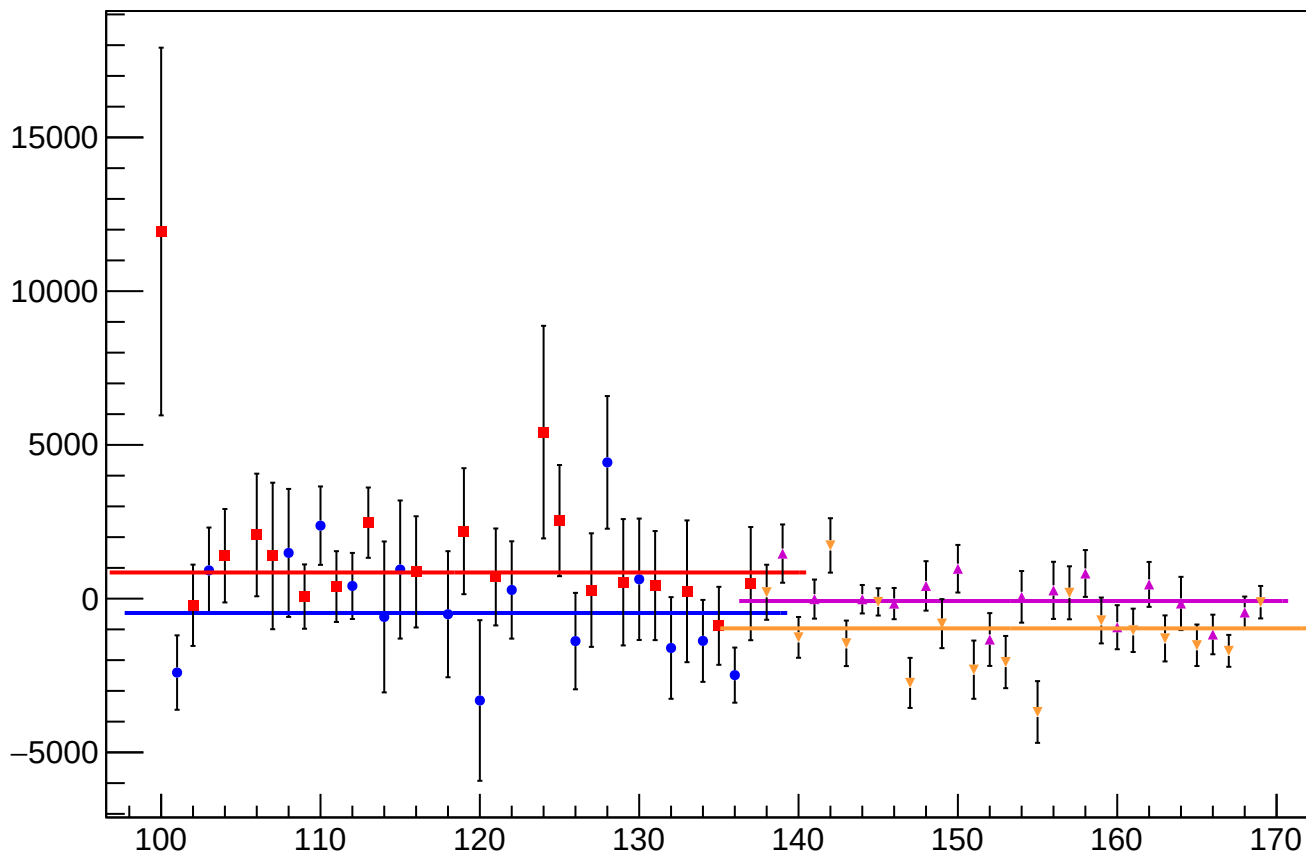
cor_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 74.369 $\pm$ 0.020 χ^2 /NDF: 827585.2/15
 Left Out: 63.870 $\pm$ 0.012 χ^2 /NDF: 361798.8/16
 Right Out: 73.773 $\pm$ 0.020 χ^2 /NDF: 928163.8/18
 Left In: 64.185 $\pm$ 0.013 χ^2 /NDF: 370823.1/14

Left: 64.021 $\pm$ 0.009 χ^2 /NDF: 732923.8/31
 Right: 74.066 $\pm$ 0.014 χ^2 /NDF: 1756180.6/34
 In: 67.137 $\pm$ 0.011 χ^2 /NDF: 1374612.9/30
 Out: 66.626 $\pm$ 0.011 χ^2 /NDF: 1464749.6/35
 All: 66.873 $\pm$ 0.008 χ^2 /NDF: 2840480.4/66

asym_sam_37_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -466.511 $\pm$ 375.033 χ^2 /NDF: 23.7/15

Left Out: -966.682 $\pm$ 169.729 χ^2 /NDF:38.6/16

Right Out: 850.757 $\pm$ 373.092 χ^2 /NDF: 12.6/18

Left In: -77.124 $\pm$ 175.927 χ^2 /NDF:13.9/14

Left: -537.849 $\pm$ 122.149 χ^2 /NDF: 65.7/31

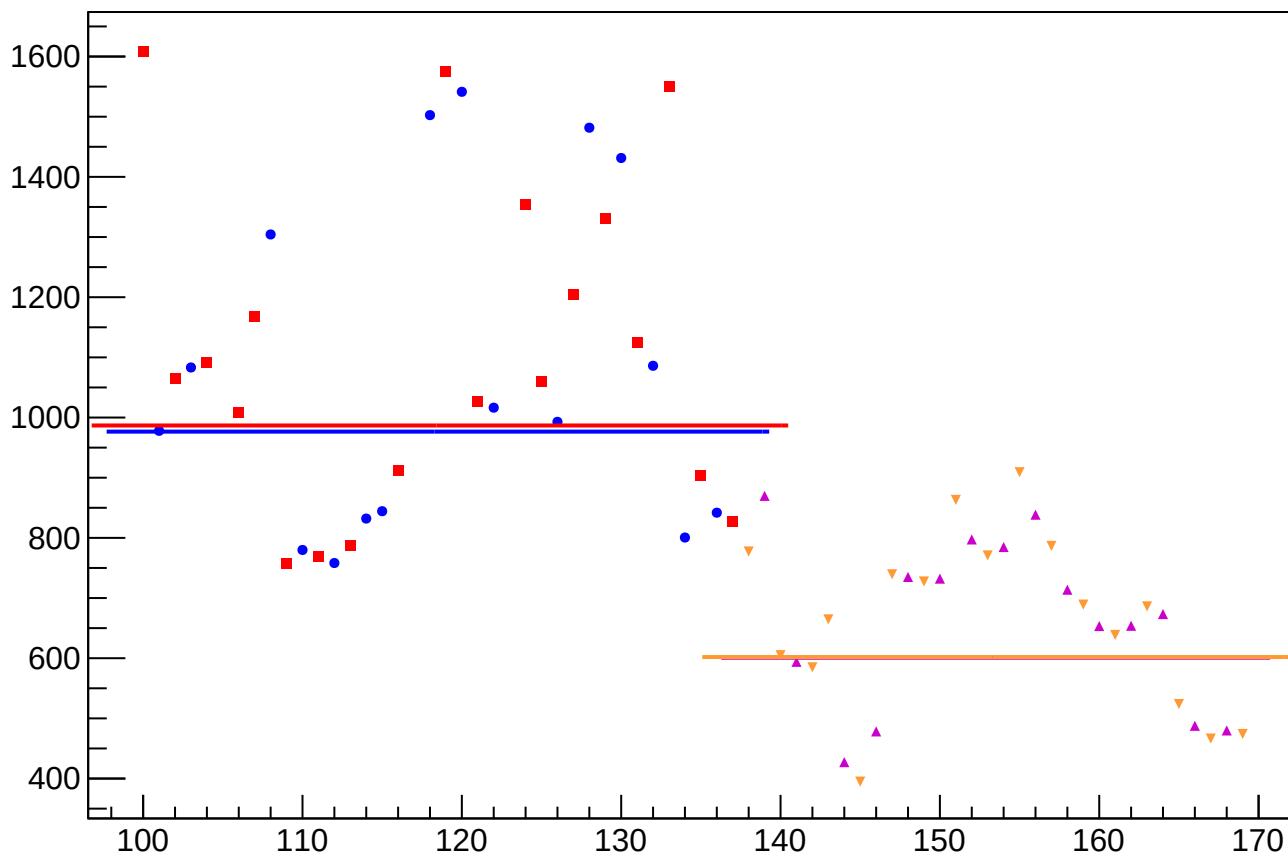
Right: 195.541 $\pm$ 264.500 χ^2 /NDF: 42.5/34

In: -147.355 $\pm$ 159.273 χ^2 /NDF:38.5/30

Out: -655.046 $\pm$ 154.493 χ^2 /NDF:70.8/35

All: -408.933 $\pm$ 110.895 χ^2 /NDF: 114.6/66

asym_sam_37_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 976.589+/-0.265 χ^2/NDF : 736628.5/15

Left Out: 601.942+/-0.120 χ^2/NDF : 1482677.0/16

Right Out: 986.823+/-0.264 χ^2/NDF : 713316.0/18

Left In: 600.764+/-0.124 χ^2/NDF : 1254292.1/14

Left: 601.374+/-0.086 χ^2/NDF : 2737015.5/31

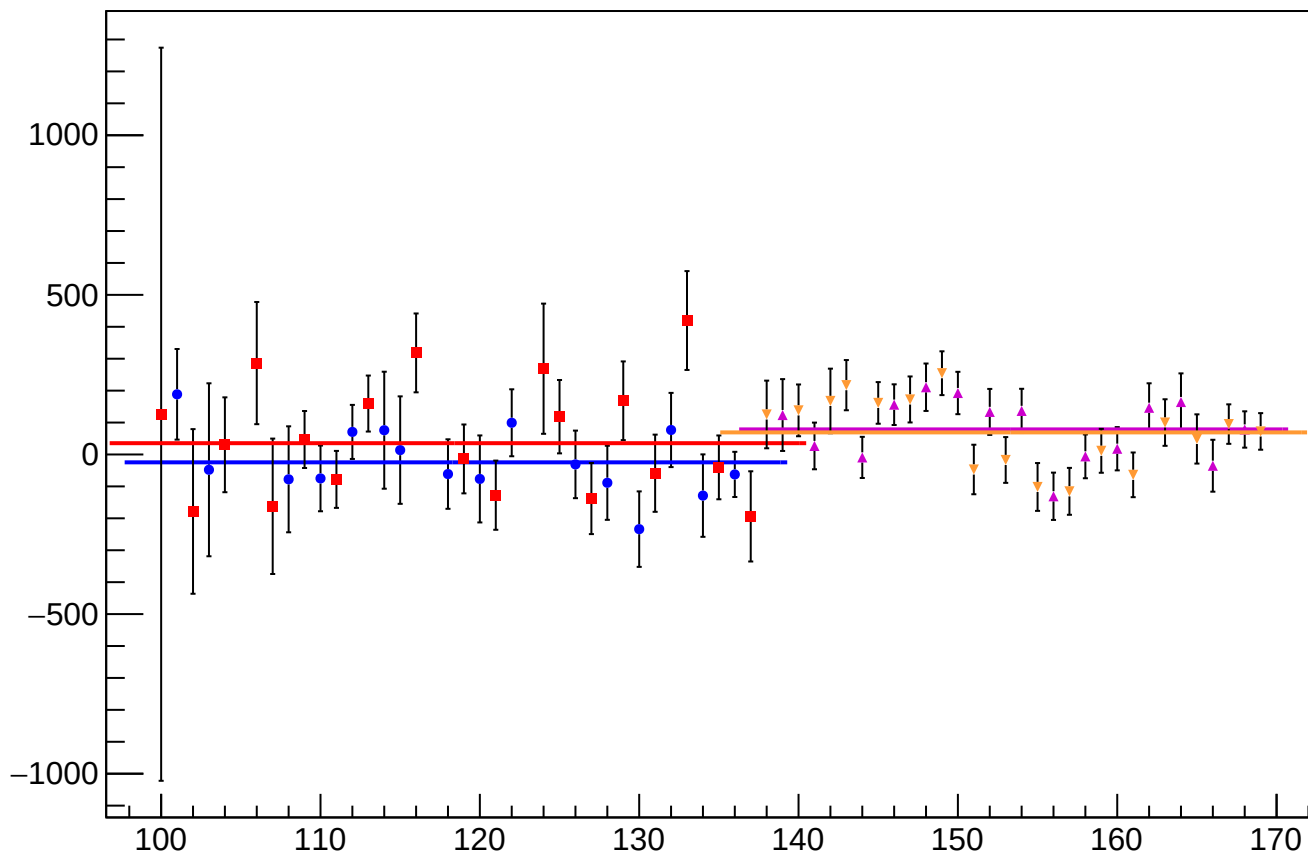
Right: 981.733+/-0.187 χ^2/NDF : 1450693.2/34

In: 668.549+/-0.113 χ^2/NDF : 3637122.1/30

Out: 667.937+/-0.109 χ^2/NDF : 3959434.3/35

All: 668.234+/-0.078 χ^2/NDF : 7596571.7/66

eigen_cor_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -24.640 ± 28.913 χ^2/NDF : 11.0/15

Left Out: 69.176 ± 17.670 χ^2/NDF : 36.8/16

Right Out: 35.383 ± 28.457 χ^2/NDF : 30.0/18

Left In: 78.545 ± 18.475 χ^2/NDF : 25.4/14

Left: 73.652 ± 12.770 χ^2/NDF : 62.3/31

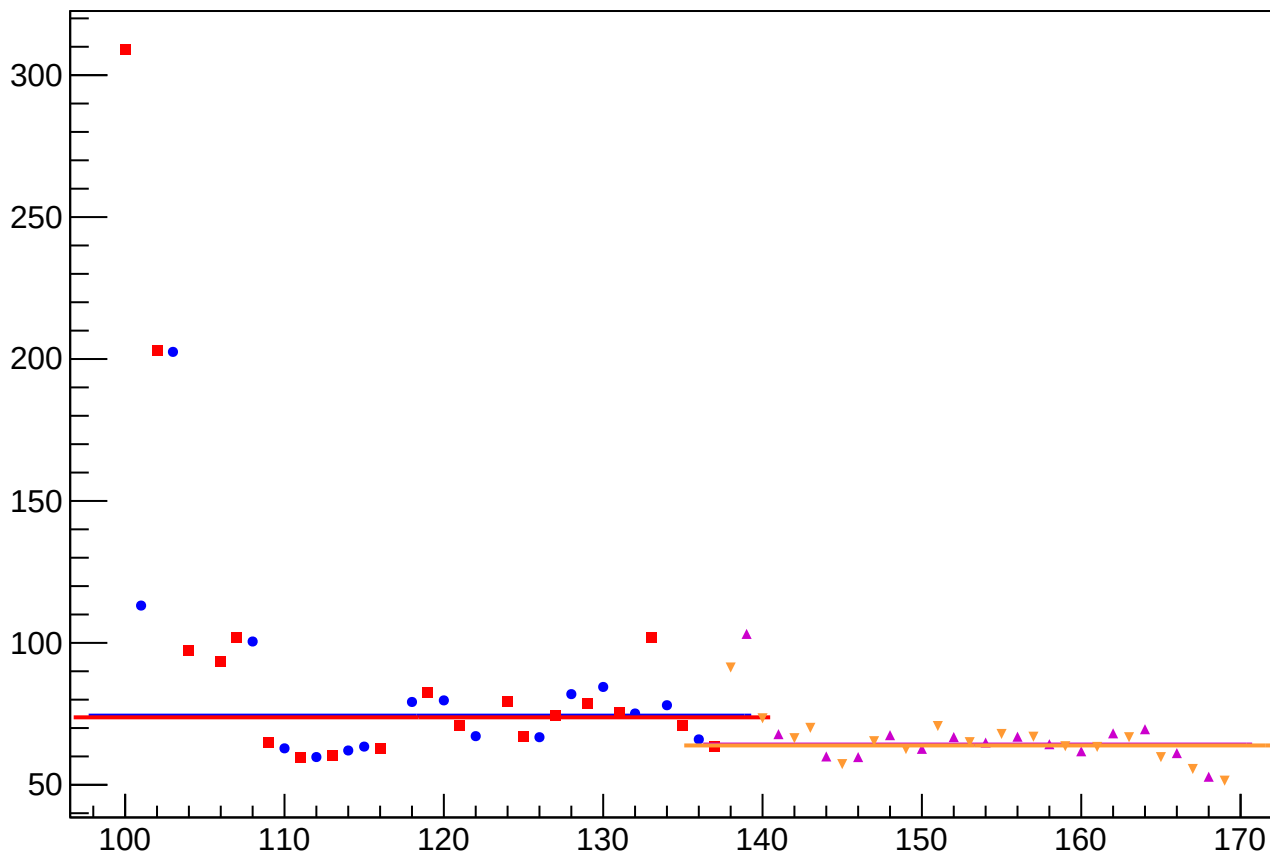
Right: 5.848 ± 20.281 χ^2/NDF : 43.2/34

In: 48.628 ± 15.568 χ^2/NDF : 45.4/30

Out: 59.772 ± 15.012 χ^2/NDF : 67.9/35

All: 54.403 ± 10.806 χ^2/NDF : 113.5/66

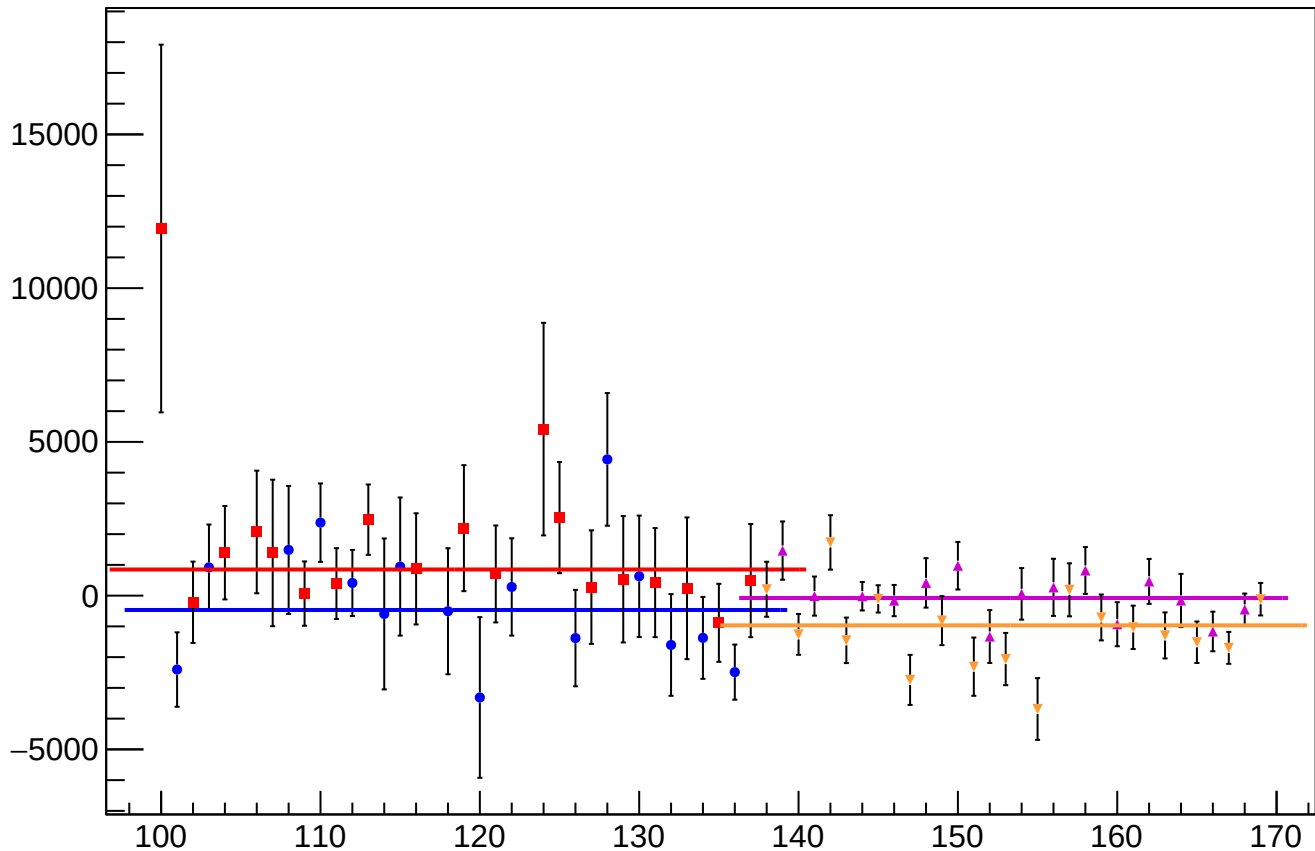
eigen_cor_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 74.369+/-0.020 χ^2/NDF : 827585.2/15
 Left Out: 63.870+/-0.012 χ^2/NDF : 361798.8/16
 Right Out: 73.773+/-0.020 χ^2/NDF : 928163.8/18
 Left In: 64.185+/-0.013 χ^2/NDF : 370823.1/14

Left: 64.021+/-0.009 χ^2/NDF : 732923.8/31
 Right: 74.066+/-0.014 χ^2/NDF : 1756180.6/34
 In: 67.137+/-0.011 χ^2/NDF : 1374612.9/30
 Out: 66.626+/-0.011 χ^2/NDF : 1464749.6/35
 All: 66.873+/-0.008 χ^2/NDF : 2840480.4/66

asym_sam_37_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -466.511 $\pm$ 375.033 χ^2 /NDF: 23.7/15

Left Out: -966.682 $\pm$ 169.729 χ^2 /NDF:38.6/16

Right Out: 850.757 $\pm$ 373.092 χ^2 /NDF: 12.6/18

Left In: -77.124 $\pm$ 175.927 χ^2 /NDF:13.9/14

Left: -537.849 $\pm$ 122.149 χ^2 /NDF: 65.7/31

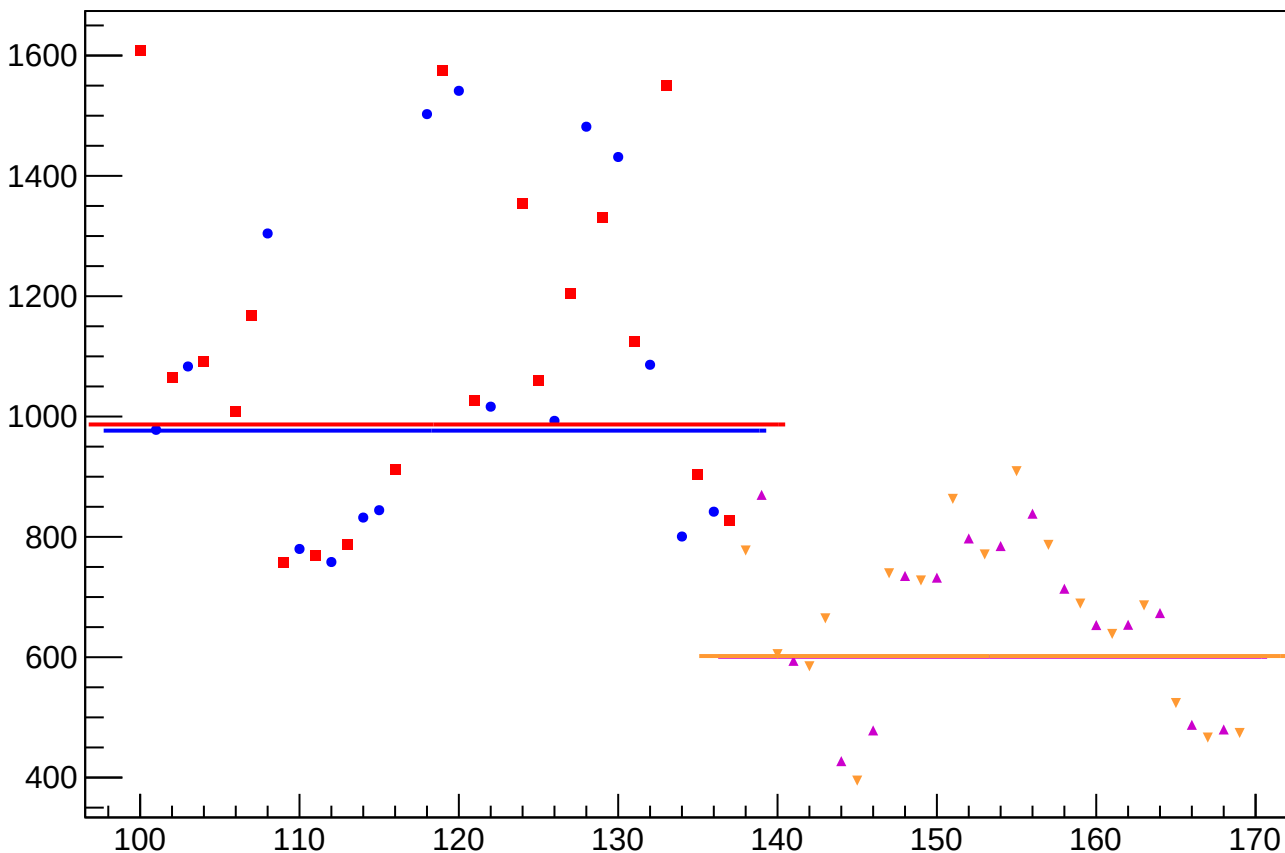
Right: 195.541 $\pm$ 264.500 χ^2 /NDF: 42.5/34

In: -147.355 $\pm$ 159.273 χ^2 /NDF:38.5/30

Out: -655.046 $\pm$ 154.493 χ^2 /NDF:70.8/35

All: -408.933 $\pm$ 110.895 χ^2 /NDF: 114.6/66

asym_sam_37_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 976.589+/-0.265 χ^2/NDF : 736628.5/15

Left Out: 601.942+/-0.120 χ^2/NDF : 1482677.0/16

Right Out: 986.823+/-0.264 χ^2/NDF : 713316.0/18

Left In: 600.764+/-0.124 χ^2/NDF : 1254292.1/14

Left: 601.374+/-0.086 χ^2/NDF : 2737015.5/31

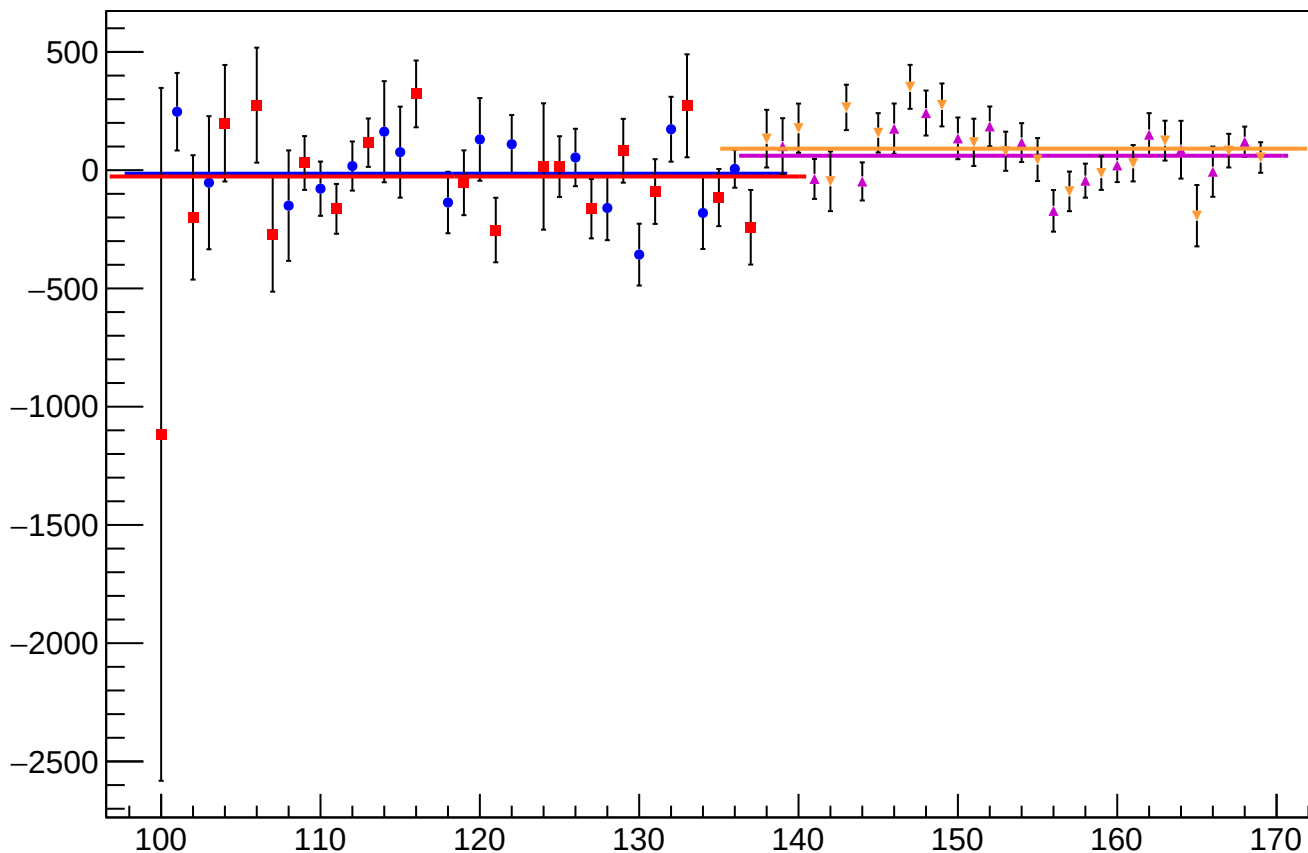
Right: 981.733+/-0.187 χ^2/NDF : 1450693.2/34

In: 668.549+/-0.113 χ^2/NDF : 3637122.1/30

Out: 667.937+/-0.109 χ^2/NDF : 3959434.3/35

All: 668.234+/-0.078 χ^2/NDF : 7596571.7/66

dit_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -14.953 ± 33.761 χ^2/NDF : 18.3/15

Left Out: 90.925 ± 21.193 χ^2/NDF : 31.0/16

Right Out: -26.654 ± 34.073 χ^2/NDF : 23.6/18

Left In: 61.111 ± 22.223 χ^2/NDF : 23.1/14

Left: 76.726 ± 15.337 χ^2/NDF : 55.1/31

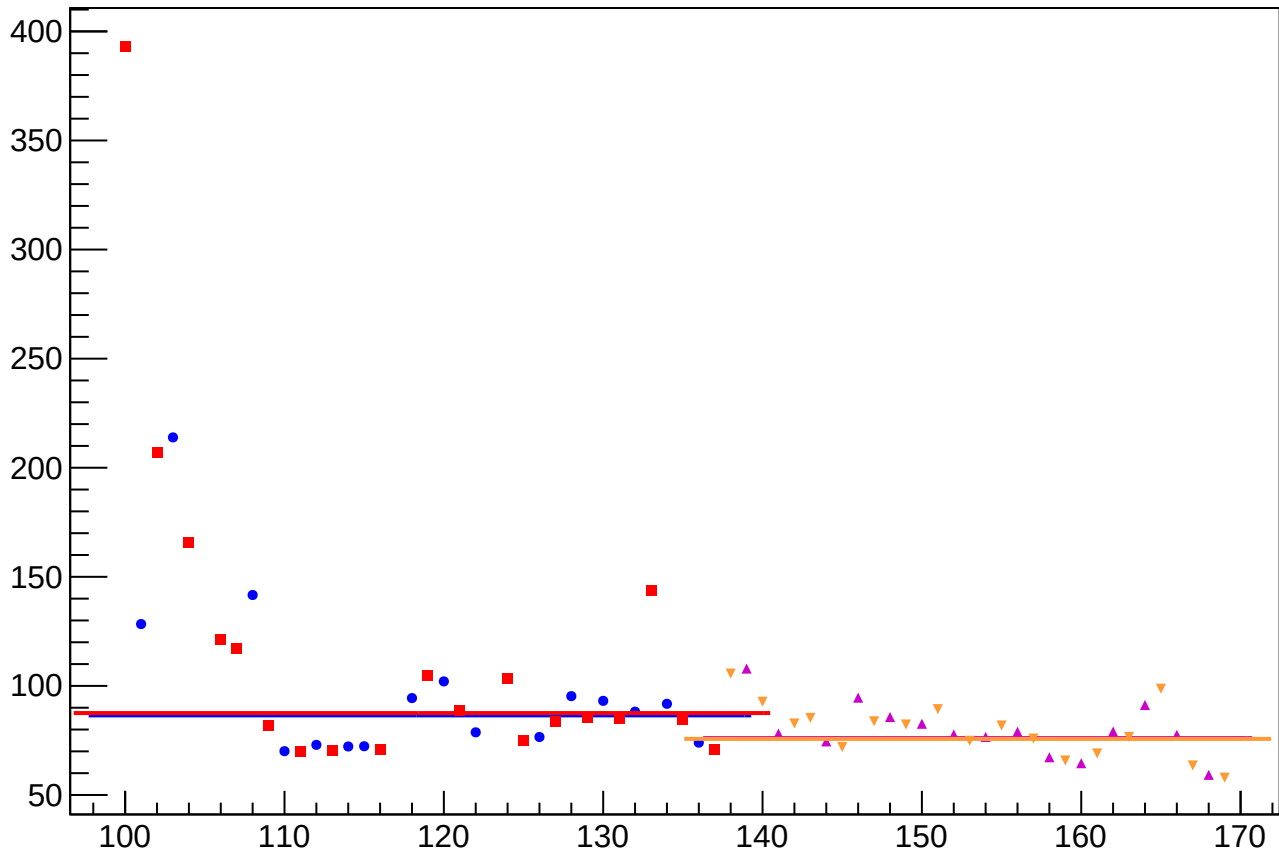
Right: -20.750 ± 23.982 χ^2/NDF : 41.9/34

In: 38.116 ± 18.563 χ^2/NDF : 44.9/30

Out: 58.127 ± 17.996 χ^2/NDF : 63.2/35

All: 48.432 ± 12.921 χ^2/NDF : 108.8/66

dit_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 86.489 $\pm$ 0.024 χ^2 /NDF: 856257.9/15

Left Out: 75.720 $\pm$ 0.015 χ^2 /NDF: 603793.7/16

Right Out: 87.555 $\pm$ 0.024 χ^2 /NDF: 1129794.0/18

Left In: 76.090 $\pm$ 0.016 χ^2 /NDF: 497484.3/14

Left: 75.896 $\pm$ 0.011 χ^2 /NDF: 1101569.2/31

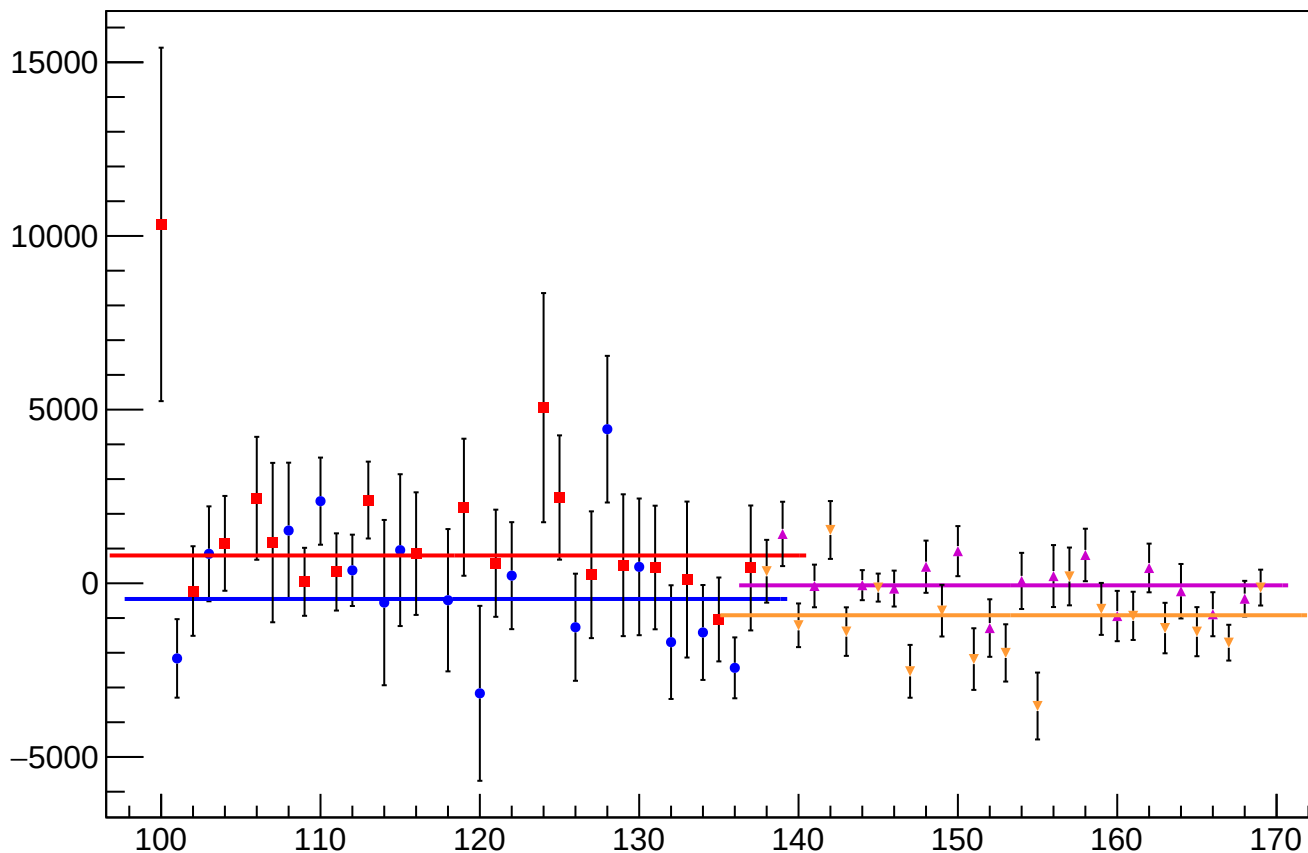
Right: 87.017 $\pm$ 0.017 χ^2 /NDF: 1987038.9/34

In: 79.234 $\pm$ 0.013 χ^2 /NDF: 1486124.5/30

Out: 79.021 $\pm$ 0.013 χ^2 /NDF: 1907570.2/35

All: 79.124 $\pm$ 0.009 χ^2 /NDF: 3393830.3/66

asym_sam_37_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -451.380+/-365.605 χ^2/NDF : 23.7/15

Left Out: -920.062+/-163.355 χ^2/NDF : 38.2/16

Right Out: 801.206+/-357.866 χ^2/NDF : 13.6/18

Left In: -58.758+/-170.402 χ^2/NDF : 12.9/14

Left: -507.587+/-117.922 χ^2/NDF : 64.4/31

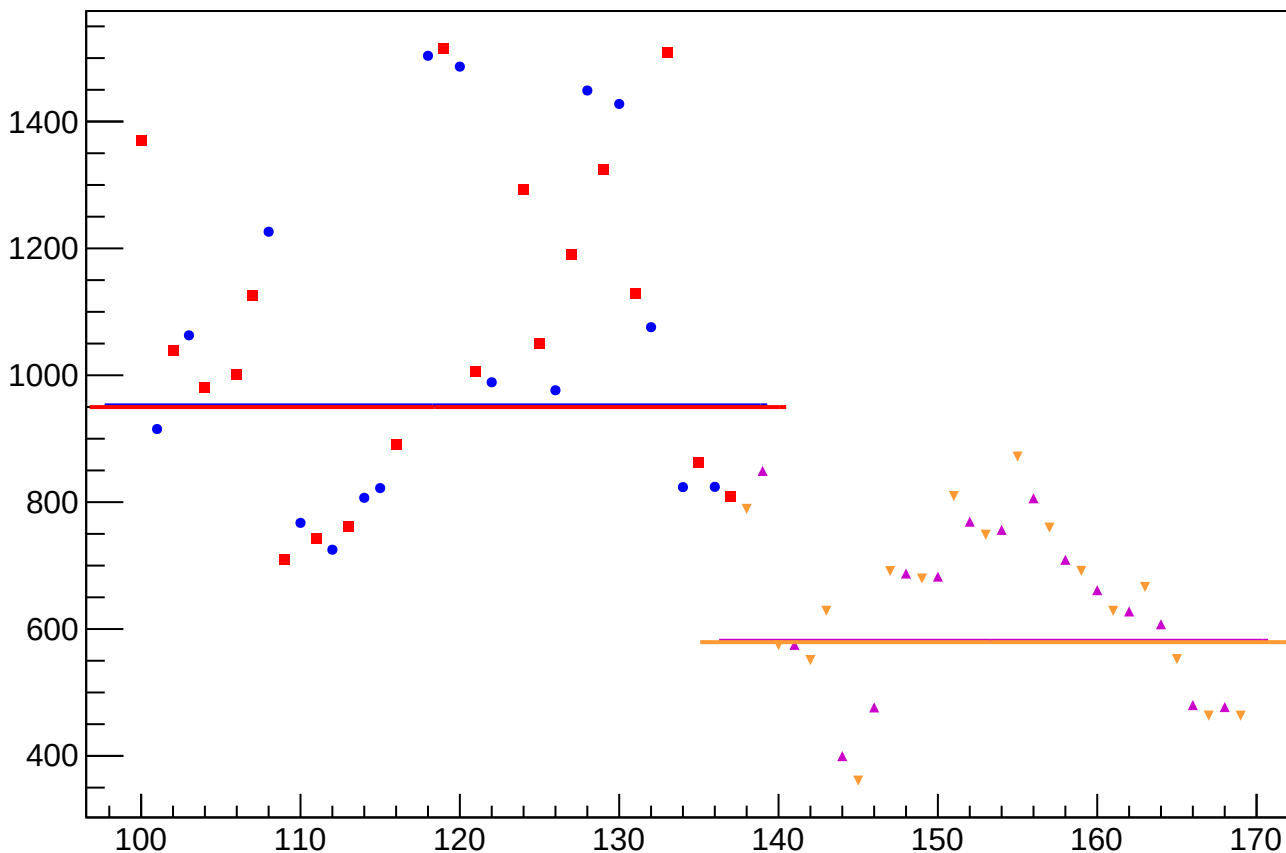
Right: 188.311+/-255.742 χ^2/NDF : 43.3/34

In: -128.827+/-154.450 χ^2/NDF : 37.6/30

Out: -623.254+/-148.605 χ^2/NDF : 70.9/35

All: -385.573+/-107.086 χ^2/NDF : 113.9/66

asym_sam_37_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 952.551+/-0.259 χ^2/NDF : 746346.9/15

Left Out: 579.297+/-0.116 χ^2/NDF :1572789.5/16

Right Out: 949.891+/-0.253 χ^2/NDF : 751675.2/18

Left In: 581.503+/-0.120 χ^2/NDF :1231467.0/14

Left: 580.353+/-0.083 χ^2/NDF : 2804431.3/31

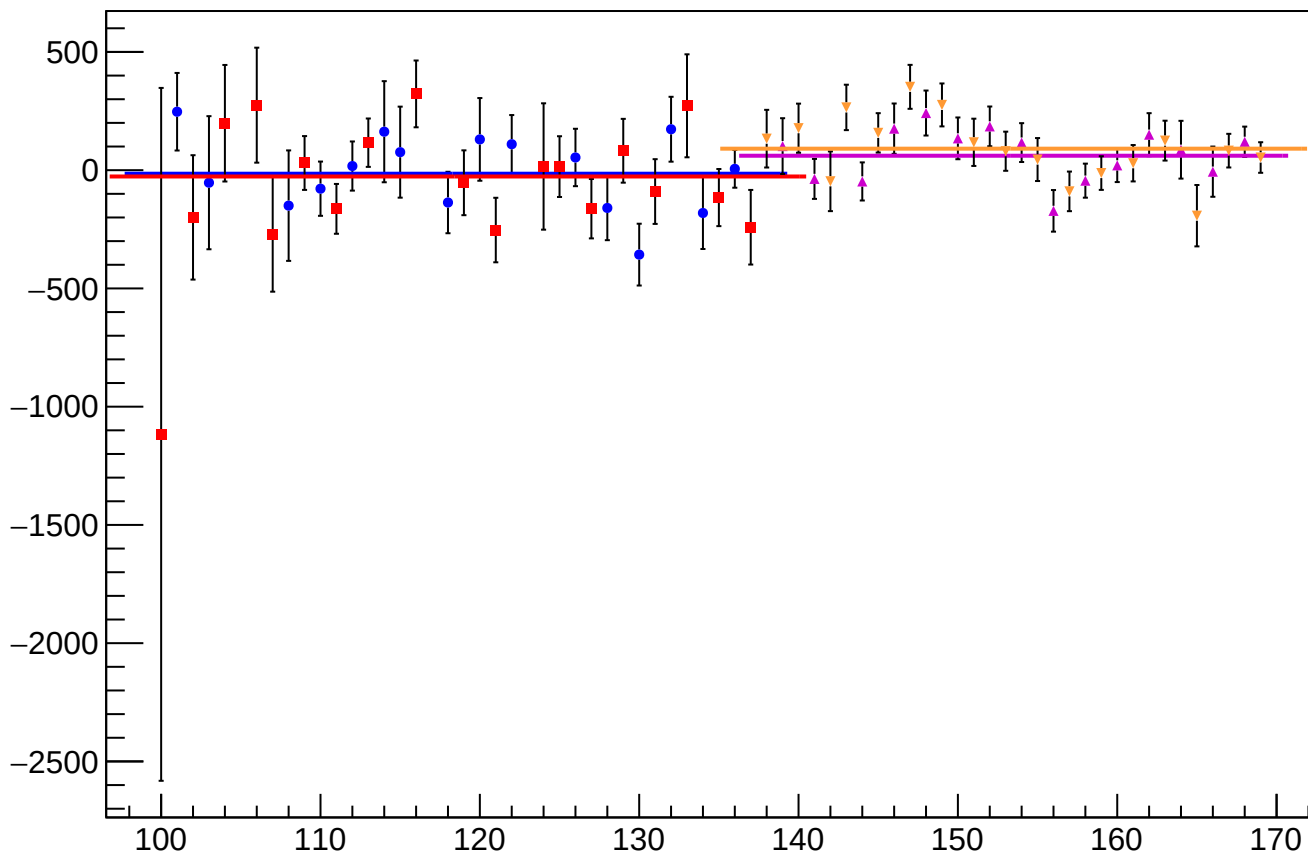
Right: 951.193+/-0.181 χ^2/NDF : 1498076.1/34

In: 647.722+/-0.109 χ^2/NDF :3670168.9/30

Out: 643.200+/-0.105 χ^2/NDF :4099430.4/35

All: 645.374+/-0.076 χ^2/NDF : 7770489.2/66

eigen_dit_asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: -14.954 ± 33.761 χ^2/NDF : 18.3/15

Left Out: 90.926 ± 21.193 χ^2/NDF : 31.0/16

Right Out: -26.658 ± 34.073 χ^2/NDF : 23.6/18

Left In: 61.110 ± 22.223 χ^2/NDF : 23.1/14

Left: 76.726 ± 15.337 χ^2/NDF : 55.1/31

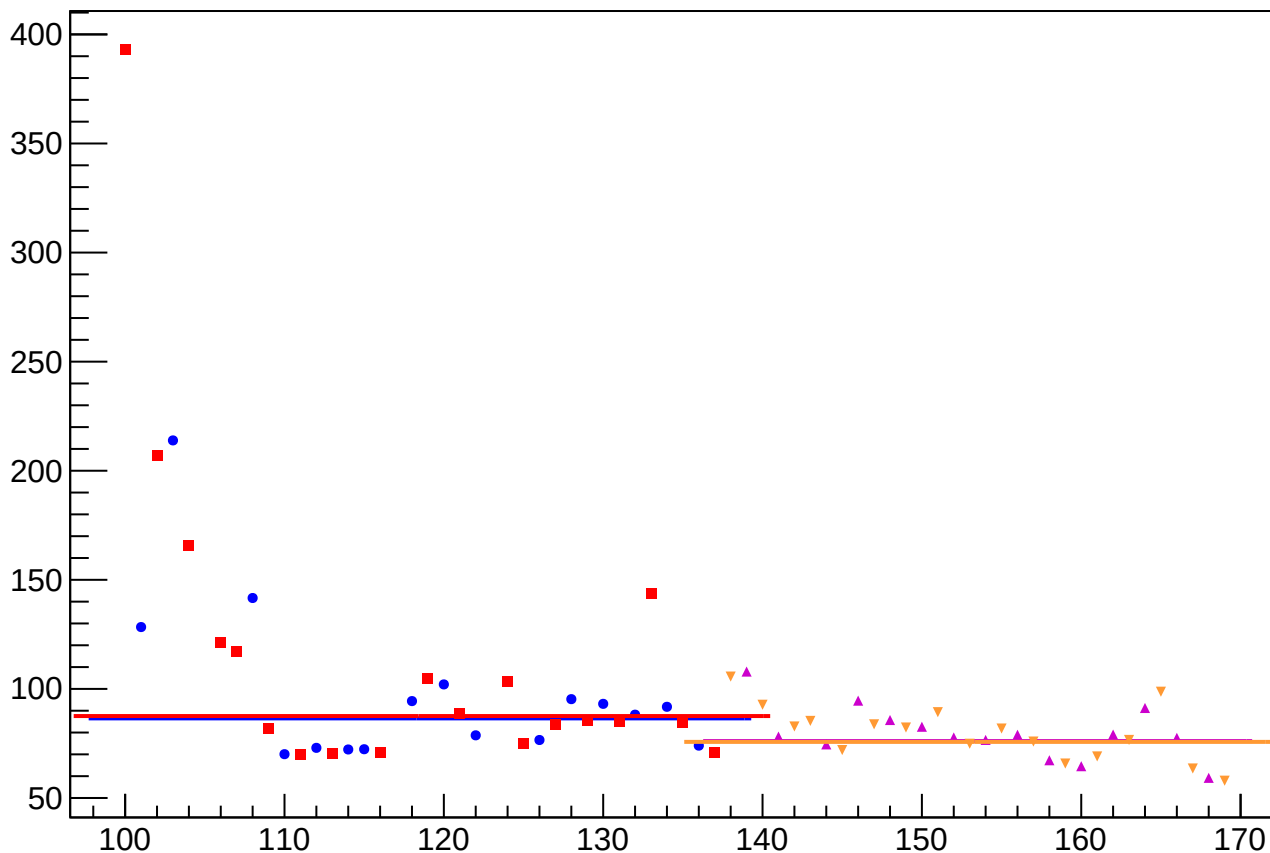
Right: -20.752 ± 23.982 χ^2/NDF : 41.9/34

In: 38.116 ± 18.563 χ^2/NDF : 44.9/30

Out: 58.127 ± 17.996 χ^2/NDF : 63.2/35

All: 48.432 ± 12.921 χ^2/NDF : 108.8/66

eigen_dit_asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 86.489 $\pm$ 0.024 χ^2 /NDF: 856249.6/15

Left Out: 75.720 $\pm$ 0.015 χ^2 /NDF: 603800.1/16

Right Out: 87.555 $\pm$ 0.024 χ^2 /NDF: 1129791.7/18

Left In: 76.091 $\pm$ 0.016 χ^2 /NDF: 497488.4/14

Left: 75.896 $\pm$ 0.011 χ^2 /NDF: 1101579.6/31

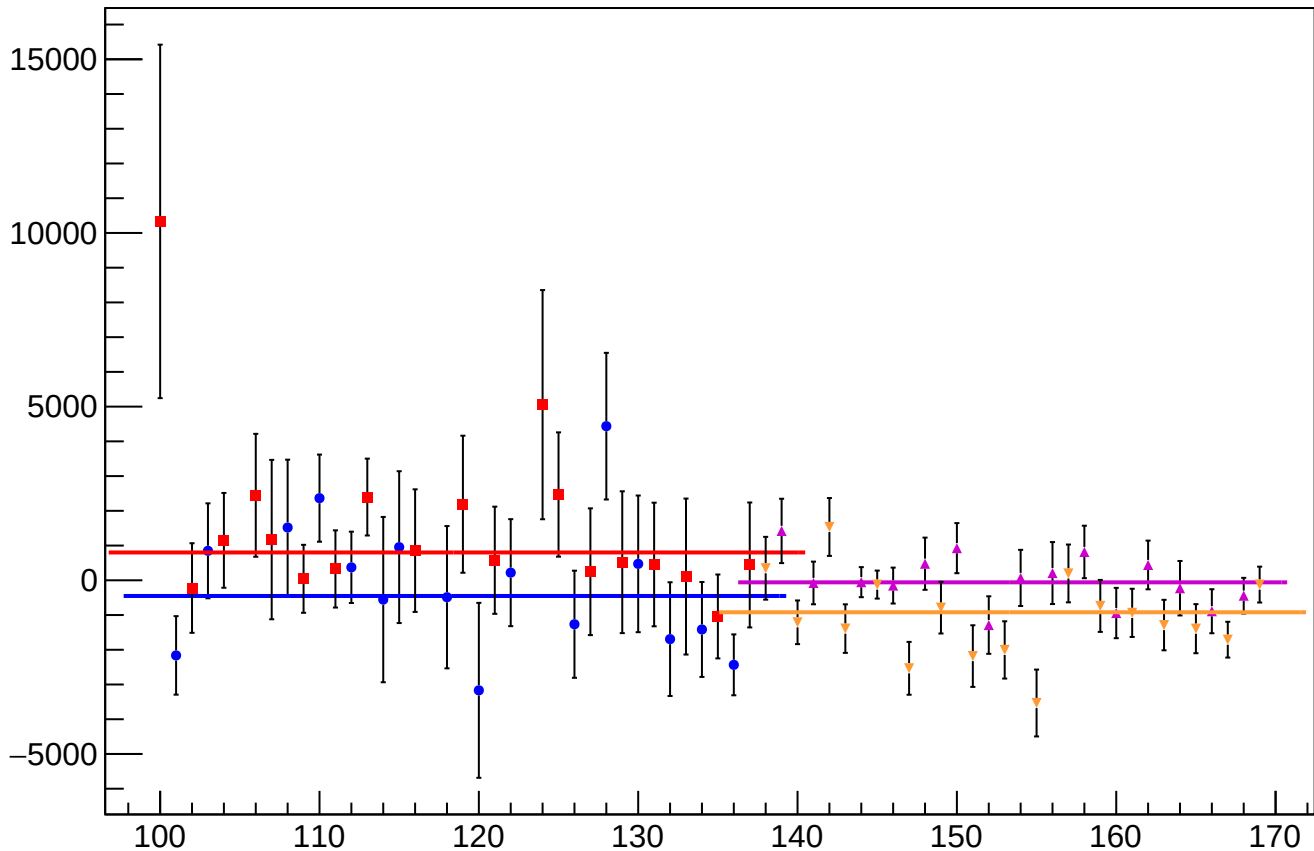
Right: 87.017 $\pm$ 0.017 χ^2 /NDF: 1987028.5/34

In: 79.234 $\pm$ 0.013 χ^2 /NDF: 1486122.1/30

Out: 79.021 $\pm$ 0.013 χ^2 /NDF: 1907578.0/35

All: 79.124 $\pm$ 0.009 χ^2 /NDF: 3393835.6/66

asym_sam_37_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -451.378 $\pm$ 365.605 χ^2 /NDF: 23.7/15

Left Out: -920.062 $\pm$ 163.355 χ^2 /NDF:38.2/16

Right Out: 801.205 $\pm$ 357.865 χ^2 /NDF: 13.6/18

Left In: -58.758 $\pm$ 170.402 χ^2 /NDF:12.9/14

Left: -507.588 $\pm$ 117.922 χ^2 /NDF: 64.4/31

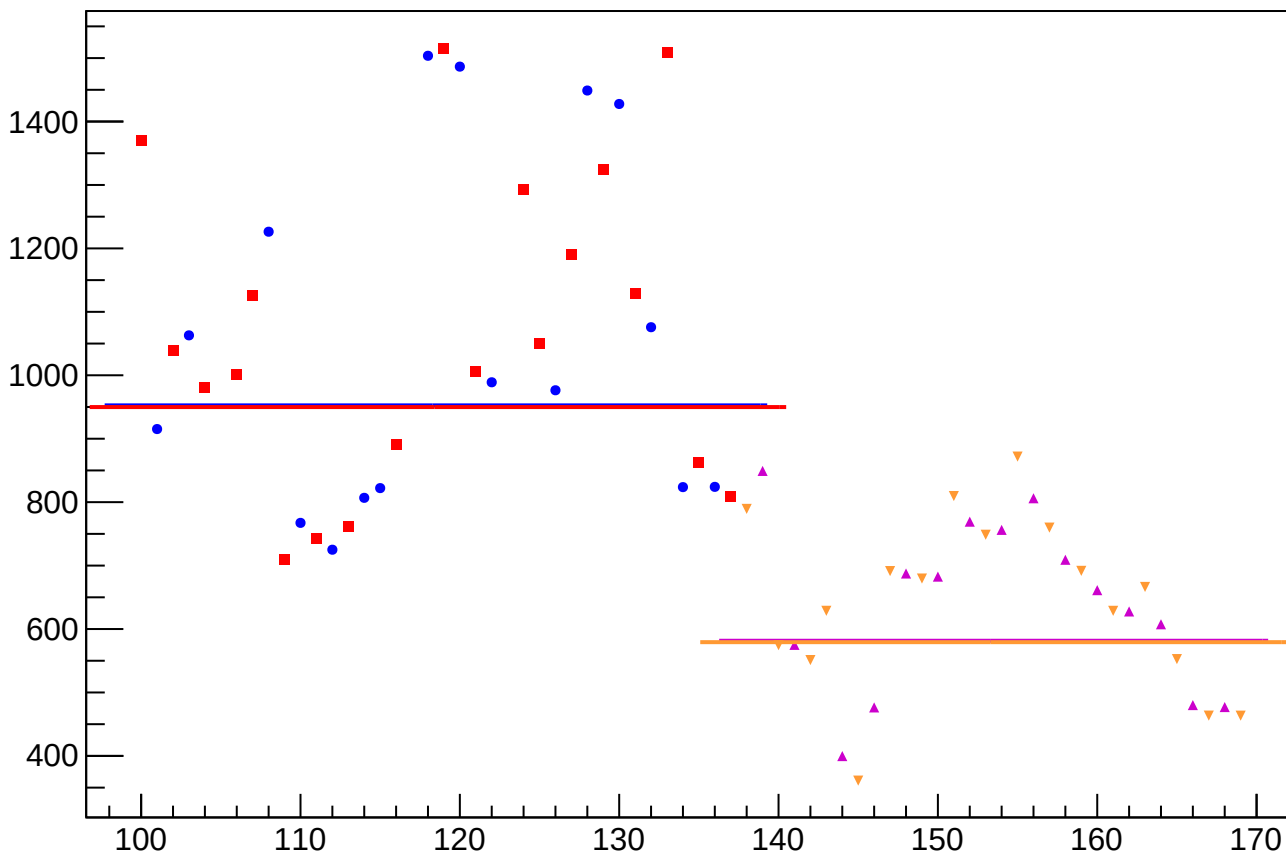
Right: 188.312 $\pm$ 255.741 χ^2 /NDF: 43.3/34

In: -128.827 $\pm$ 154.450 χ^2 /NDF:37.6/30

Out: -623.254 $\pm$ 148.605 χ^2 /NDF:70.9/35

All: -385.573 $\pm$ 107.086 χ^2 /NDF: 113.9/66

asym_sam_37_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 952.549+/-0.259 χ^2/NDF : 746349.8/15

Left Out: 579.296+/-0.116 χ^2/NDF :1572787.6/16

Right Out: 949.890+/-0.253 χ^2/NDF : 751674.5/18

Left In: 581.503+/-0.120 χ^2/NDF :1231464.2/14

Left: 580.353+/-0.083 χ^2/NDF : 2804426.5/31

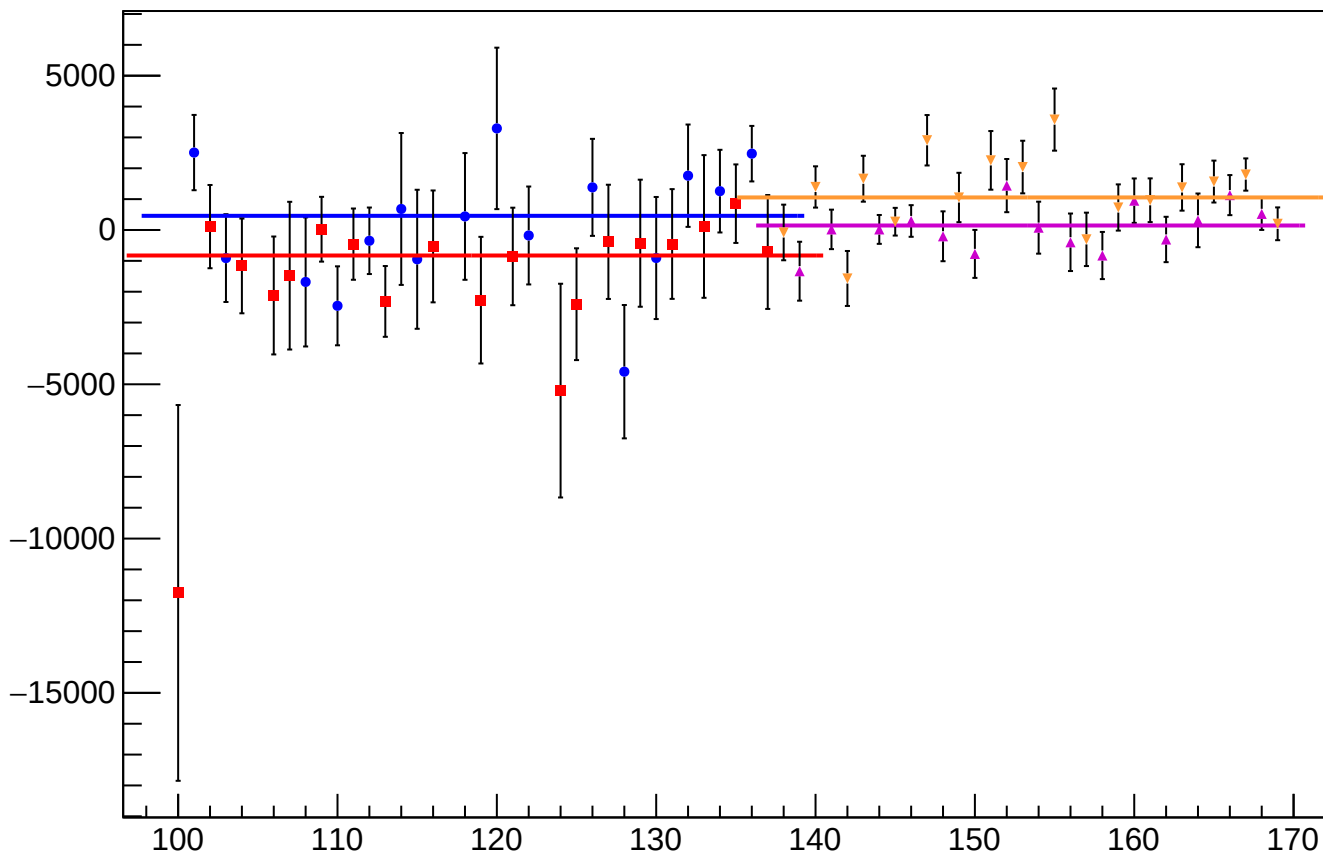
Right: 951.191+/-0.181 χ^2/NDF : 1498078.4/34

In: 647.721+/-0.109 χ^2/NDF :3670161.7/30

Out: 643.200+/-0.105 χ^2/NDF :4099421.8/35

All: 645.373+/-0.076 χ^2/NDF : 7770473.5/66

asym_sam_37_avg_mean vs Slug, Sign Corrected



Right In: 459.137 $\pm$ 376.873 χ^2 /NDF: 24.6/15

Left Out: 1055.013 $\pm$ 170.804 χ^2 /NDF:36.7/16

Right Out: -826.531 $\pm$ 374.244 χ^2 /NDF: 11.7/18

Left In: 145.606 $\pm$ 177.071 χ^2 /NDF:12.9/14

Left: 616.688 $\pm$ 122.933 χ^2 /NDF: 63.2/31

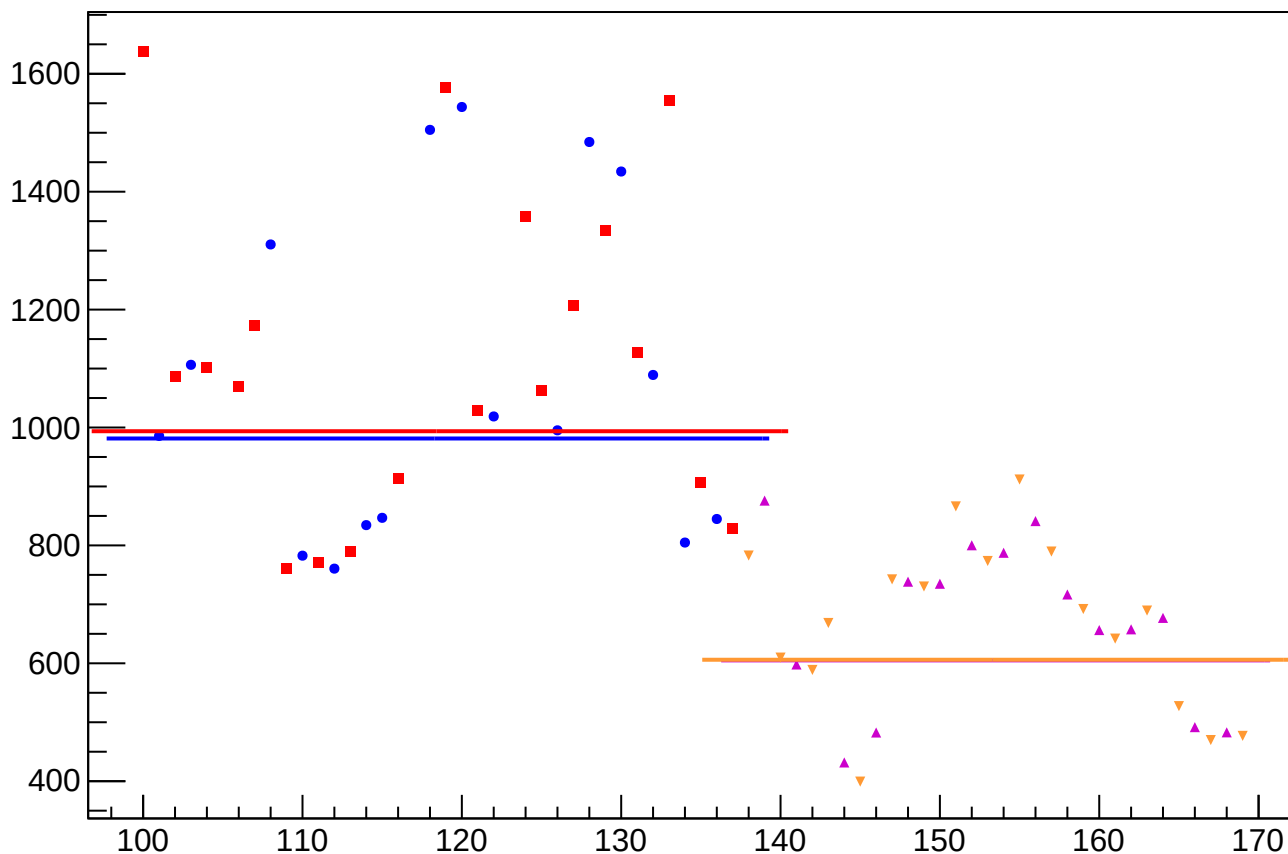
Right: -188.198 $\pm$ 265.555 χ^2 /NDF: 42.1/34

In: 202.303 $\pm$ 160.263 χ^2 /NDF:38.0/30

Out: 730.653 $\pm$ 155.386 χ^2 /NDF:69.2/35

All: 474.641 $\pm$ 111.559 χ^2 /NDF: 112.9/66

asym_sam_37_avg_rms vs Slug, Sign Corrected



Right In: 981.349+/-0.266 χ^2/NDF : 737627.4/15

Left Out: 606.033+/-0.121 χ^2/NDF : 1458551.4/16

Right Out: 993.684+/-0.265 χ^2/NDF : 719799.0/18

Left In: 604.957+/-0.125 χ^2/NDF : 1233240.8/14

Left: 605.514+/-0.087 χ^2/NDF : 2691830.4/31

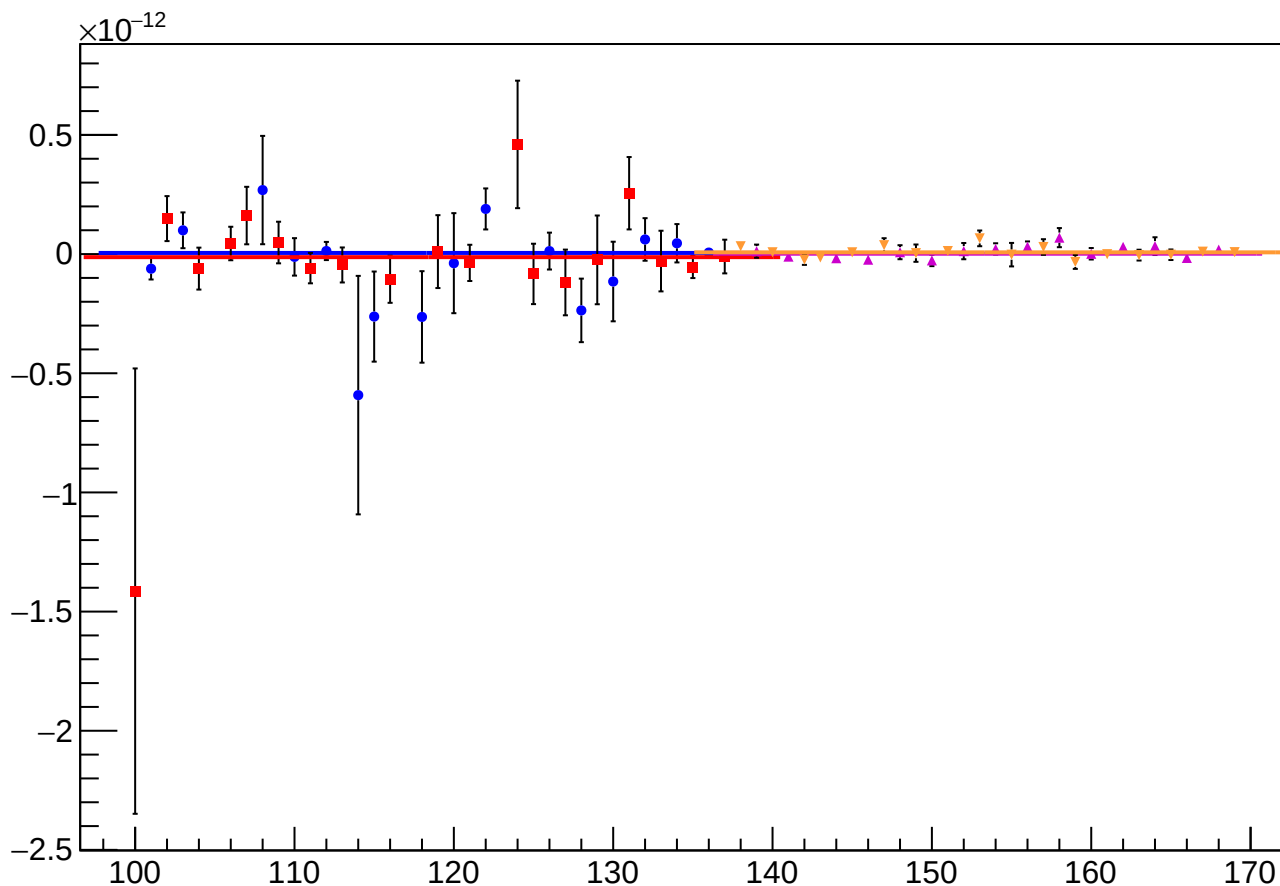
Right: 987.560+/-0.188 χ^2/NDF : 1458505.1/34

In: 673.021+/-0.113 χ^2/NDF : 3605017.3/30

Out: 672.860+/-0.110 χ^2/NDF : 3954296.1/35

All: 672.938+/-0.079 χ^2/NDF : 7559314.4/66

asym_sam_37_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :12.6/16

Right Out: -0.000+/-0.000 χ^2/NDF : 18.4/18

Left In: 0.000+/-0.000 χ^2/NDF :17.6/14

Left: 0.000+/-0.000 χ^2/NDF : 30.9/31

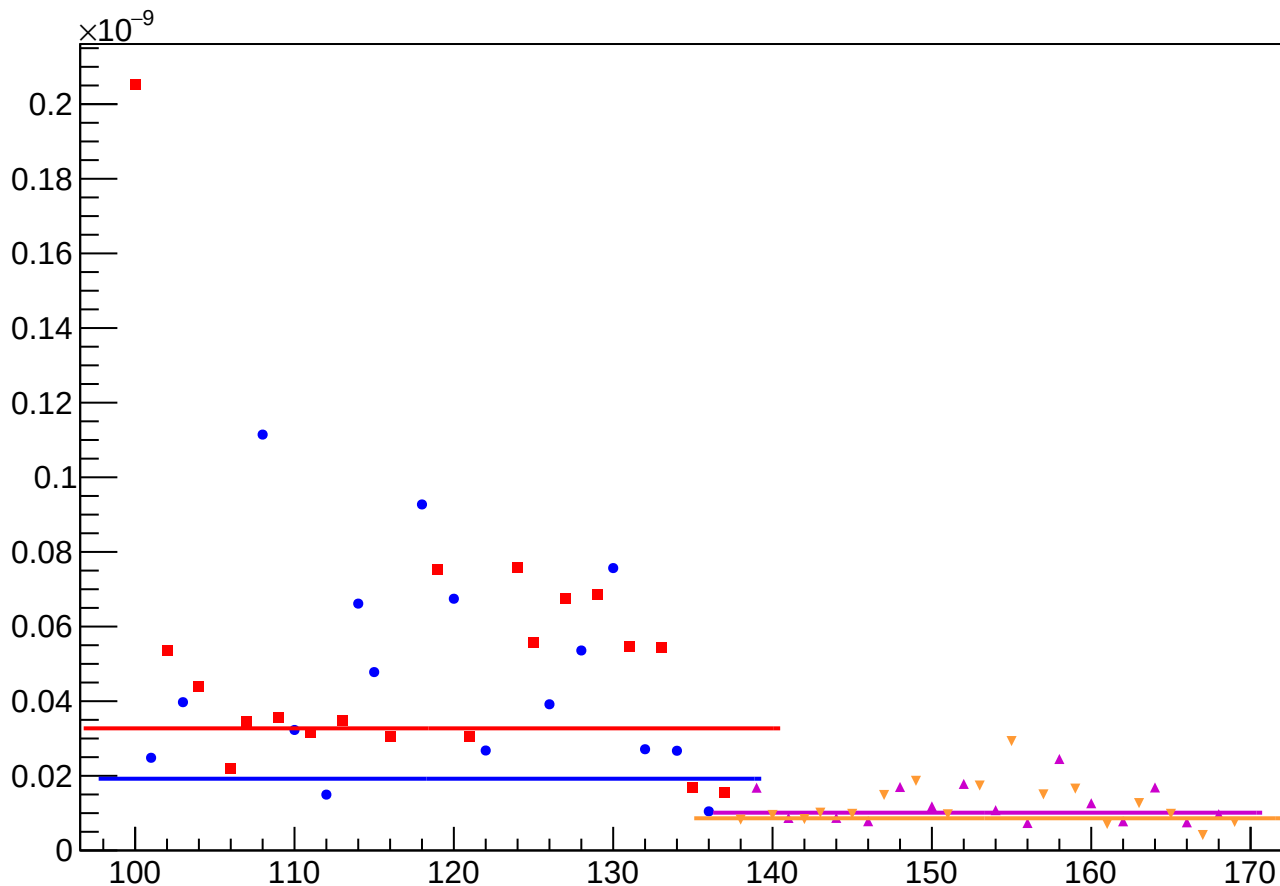
Right: -0.000+/-0.000 χ^2/NDF : 38.6/34

In: 0.000+/-0.000 χ^2/NDF :37.3/30

Out: 0.000+/-0.000 χ^2/NDF :32.0/35

All: 0.000+/-0.000 χ^2/NDF : 69.7/66

asym_sam_37_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1977908.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1616983.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1181327.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 882905.5/14

Left: 0.000+/-0.000 χ^2/NDF : 2590611.3/31

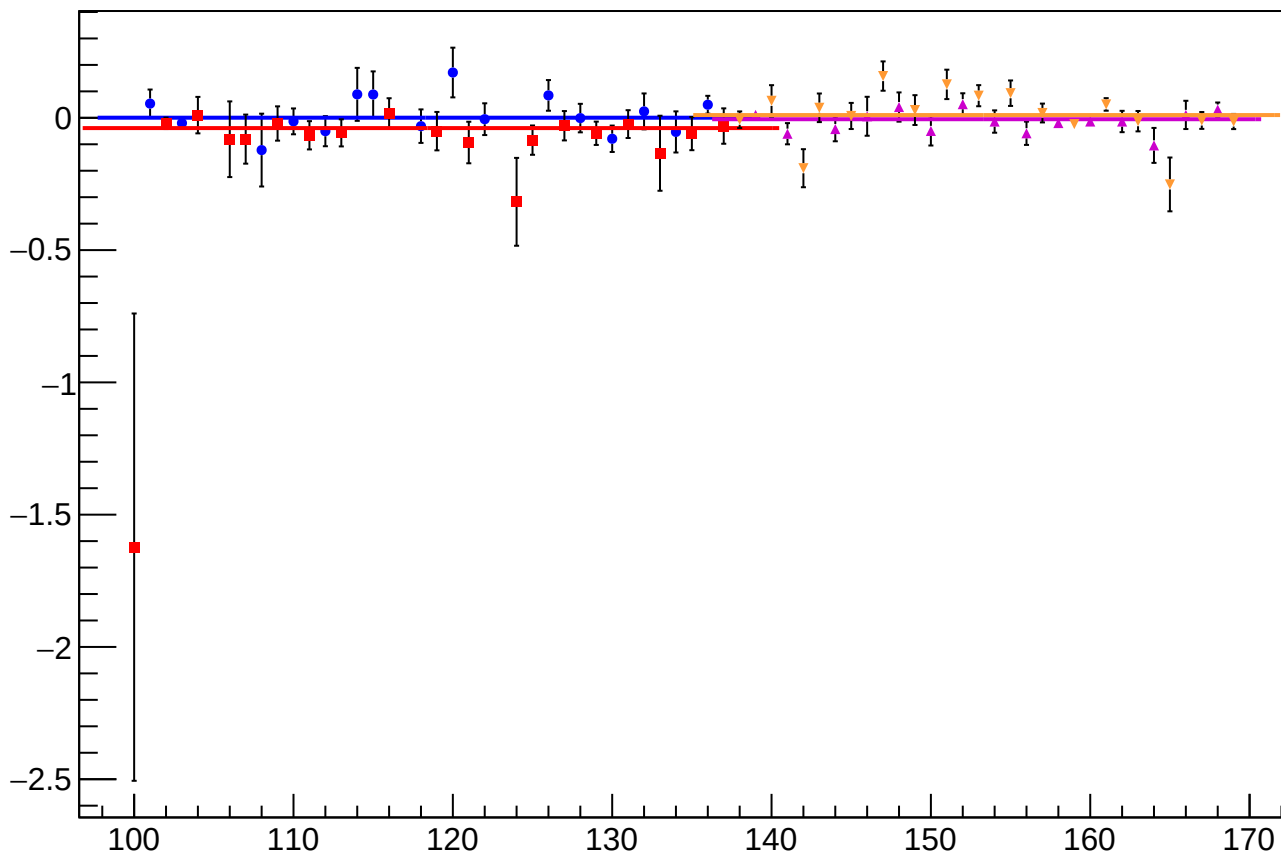
Right: 0.000+/-0.000 χ^2/NDF : 3729954.2/34

In: 0.000+/-0.000 χ^2/NDF : 3559587.3/30

Out: 0.000+/-0.000 χ^2/NDF : 5374254.5/35

All: 0.000+/-0.000 χ^2/NDF : 9032100.2/66

asym_sam_37_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.012 χ^2 /NDF: 16.5/15

Left Out: 0.010 $\pm$ 0.009 χ^2 /NDF:42.5/16

Right Out: -0.039 $\pm$ 0.013 χ^2 /NDF: 11.1/18

Left In: -0.005 $\pm$ 0.007 χ^2 /NDF:13.9/14

Left: 0.001 $\pm$ 0.006 χ^2 /NDF: 58.3/31

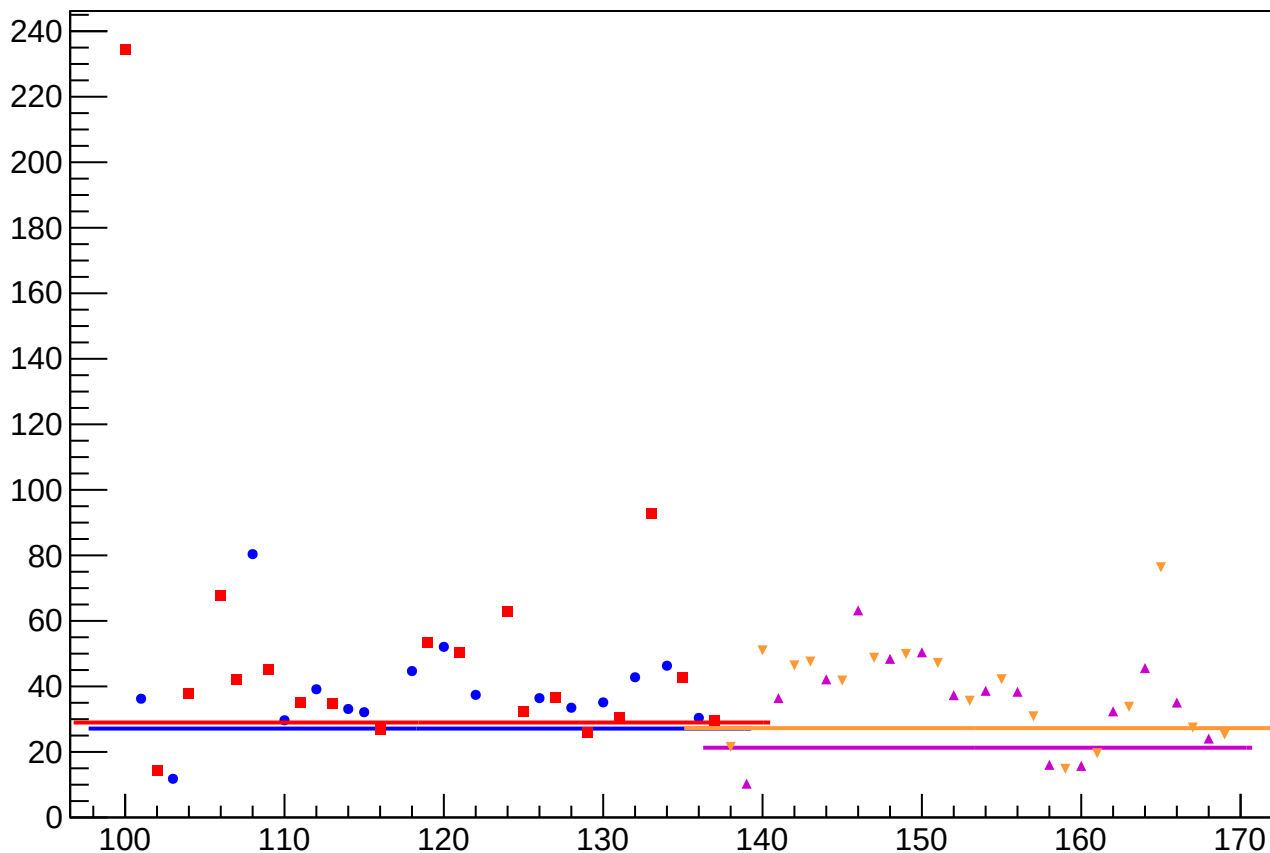
Right: -0.018 $\pm$ 0.009 χ^2 /NDF: 32.6/34

In: -0.004 $\pm$ 0.006 χ^2 /NDF:30.5/30

Out: -0.005 $\pm$ 0.007 χ^2 /NDF:63.9/35

All: -0.004 $\pm$ 0.005 χ^2 /NDF: 94.5/66

asym_sam_37_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.128+/-0.009 χ^2/NDF : 2415316.1/15

Left Out: 27.264+/-0.006 χ^2/NDF : 4048162.4/16

Right Out: 28.979+/-0.009 χ^2/NDF : 2456254.0/18

Left In: 21.286+/-0.005 χ^2/NDF : 5600335.4/14

Left: 23.850+/-0.004 χ^2/NDF : 10199950.6/31

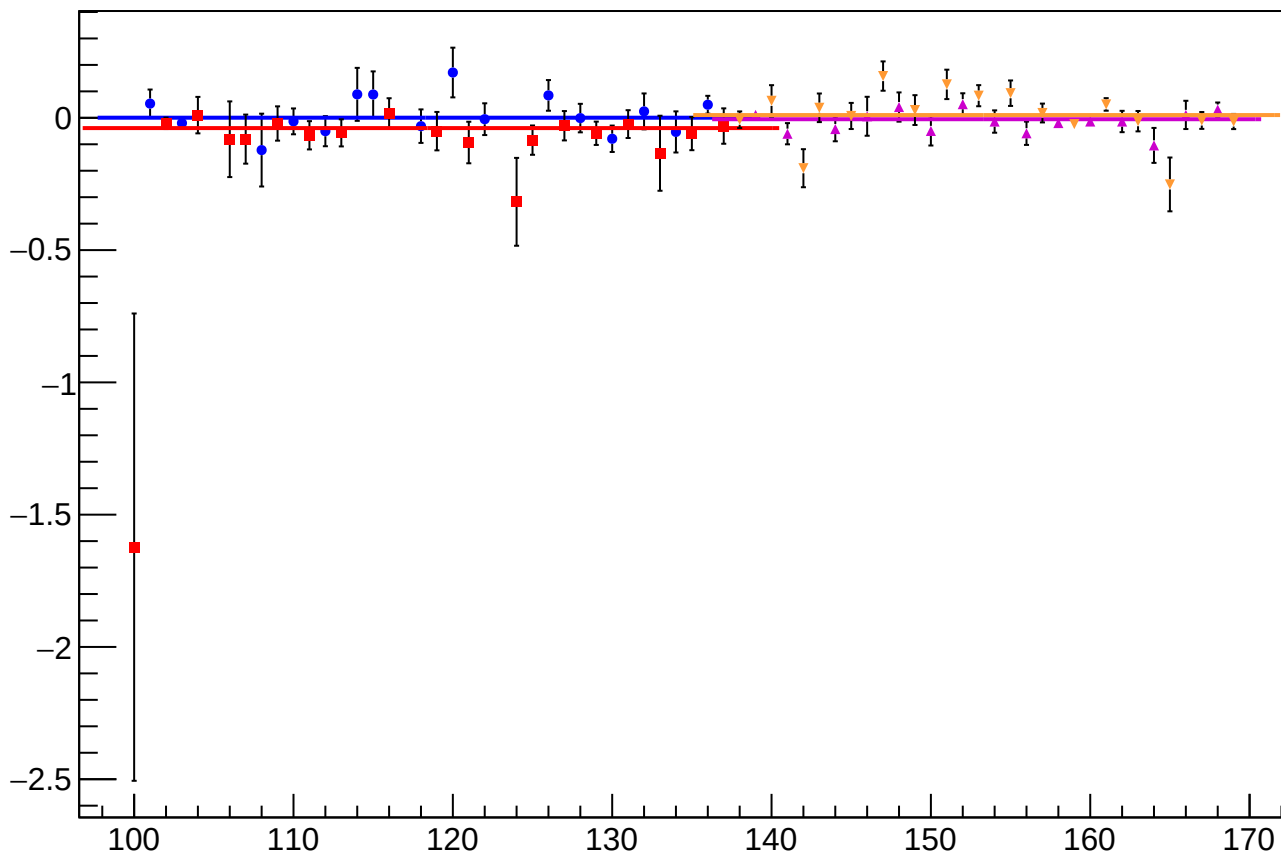
Right: 28.008+/-0.006 χ^2/NDF : 4894073.5/34

In: 22.907+/-0.004 χ^2/NDF : 8356279.5/30

Out: 27.807+/-0.005 χ^2/NDF : 6529578.2/35

All: 25.076+/-0.003 χ^2/NDF : 15415203.3/66

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.012 χ^2 /NDF: 16.5/15

Left Out: 0.010 $\pm$ 0.009 χ^2 /NDF:42.5/16

Right Out: -0.039 $\pm$ 0.013 χ^2 /NDF: 11.1/18

Left In: -0.005 $\pm$ 0.007 χ^2 /NDF:13.9/14

Left: 0.001 $\pm$ 0.006 χ^2 /NDF: 58.3/31

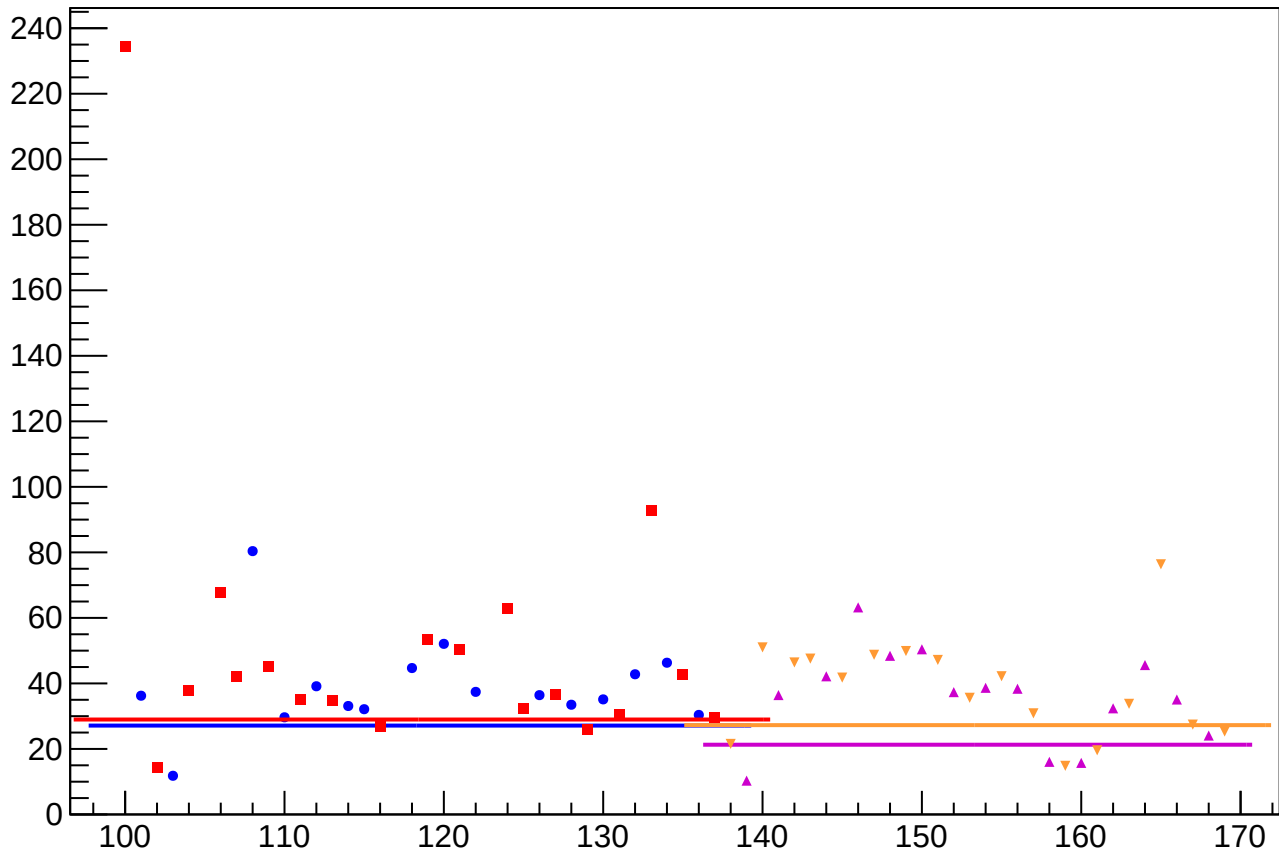
Right: -0.018 $\pm$ 0.009 χ^2 /NDF: 32.6/34

In: -0.004 $\pm$ 0.006 χ^2 /NDF:30.5/30

Out: -0.005 $\pm$ 0.007 χ^2 /NDF:63.9/35

All: -0.004 $\pm$ 0.005 χ^2 /NDF: 94.5/66

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.128+/-0.009 χ^2/NDF : 2415316.1/15

Left Out: 27.264+/-0.006 χ^2/NDF : 4048162.4/16

Right Out: 28.979+/-0.009 χ^2/NDF : 2456254.0/18

Left In: 21.286+/-0.005 χ^2/NDF : 5600335.4/14

Left: 23.850+/-0.004 χ^2/NDF : 10199950.6/31

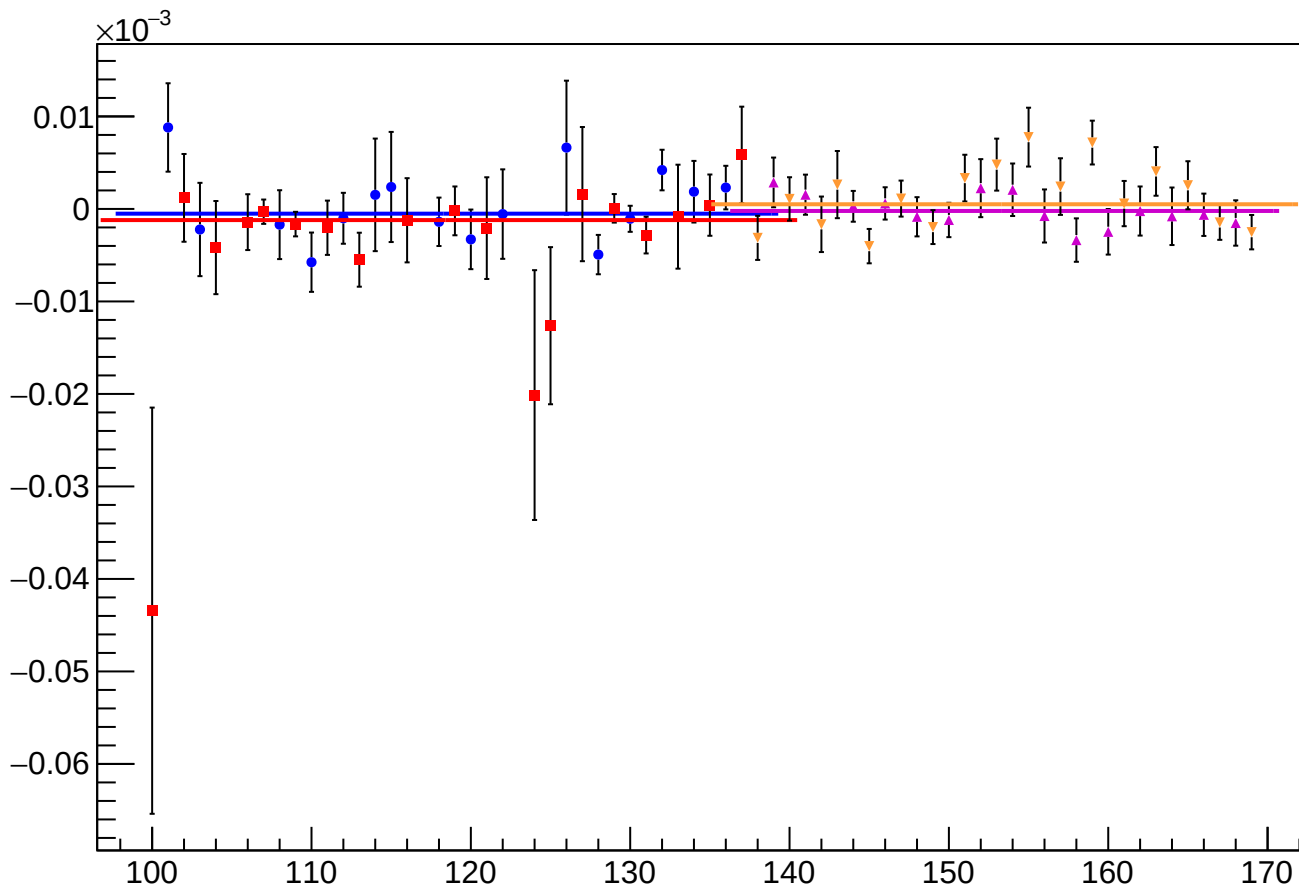
Right: 28.008+/-0.006 χ^2/NDF : 4894073.5/34

In: 22.907+/-0.004 χ^2/NDF : 8356279.5/30

Out: 27.807+/-0.005 χ^2/NDF : 6529578.2/35

All: 25.076+/-0.003 χ^2/NDF : 15415203.3/66

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 20.0/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 34.4/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 14.6/18

Left In: -0.000 ± 0.000 χ^2/NDF : 6.9/14

Left: 0.000 ± 0.000 χ^2/NDF : 42.1/31

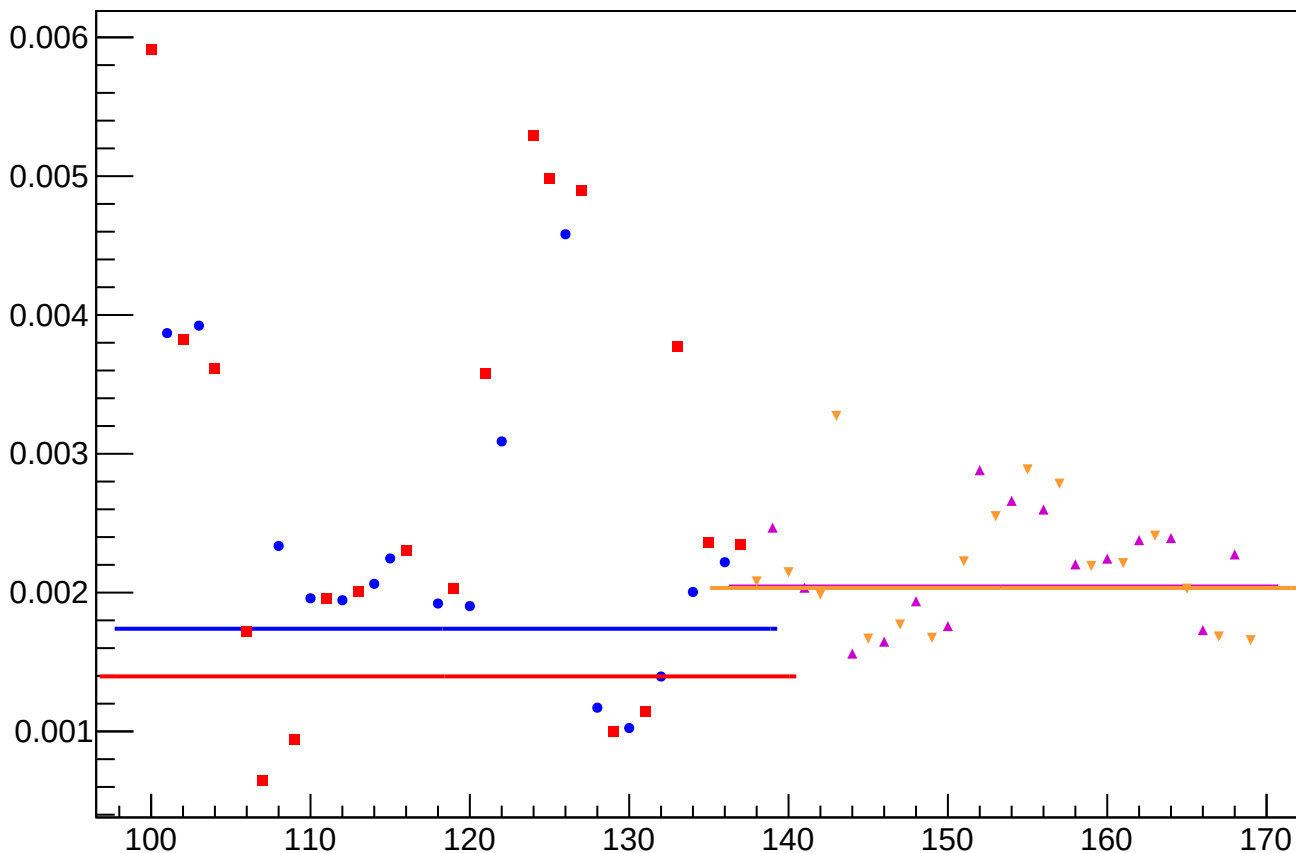
Right: -0.000 ± 0.000 χ^2/NDF : 35.1/34

In: -0.000 ± 0.000 χ^2/NDF : 27.0/30

Out: -0.000 ± 0.000 χ^2/NDF : 53.2/35

All: -0.000 ± 0.000 χ^2/NDF : 80.2/66

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2146798.7/15

Left Out: 0.002+/-0.000 χ^2/NDF :984758.6/16

Right Out: 0.001+/-0.000 χ^2/NDF : 4323193.2/18

Left In: 0.002+/-0.000 χ^2/NDF :820658.5/14

Left: 0.002+/-0.000 χ^2/NDF : 1805732.9/31

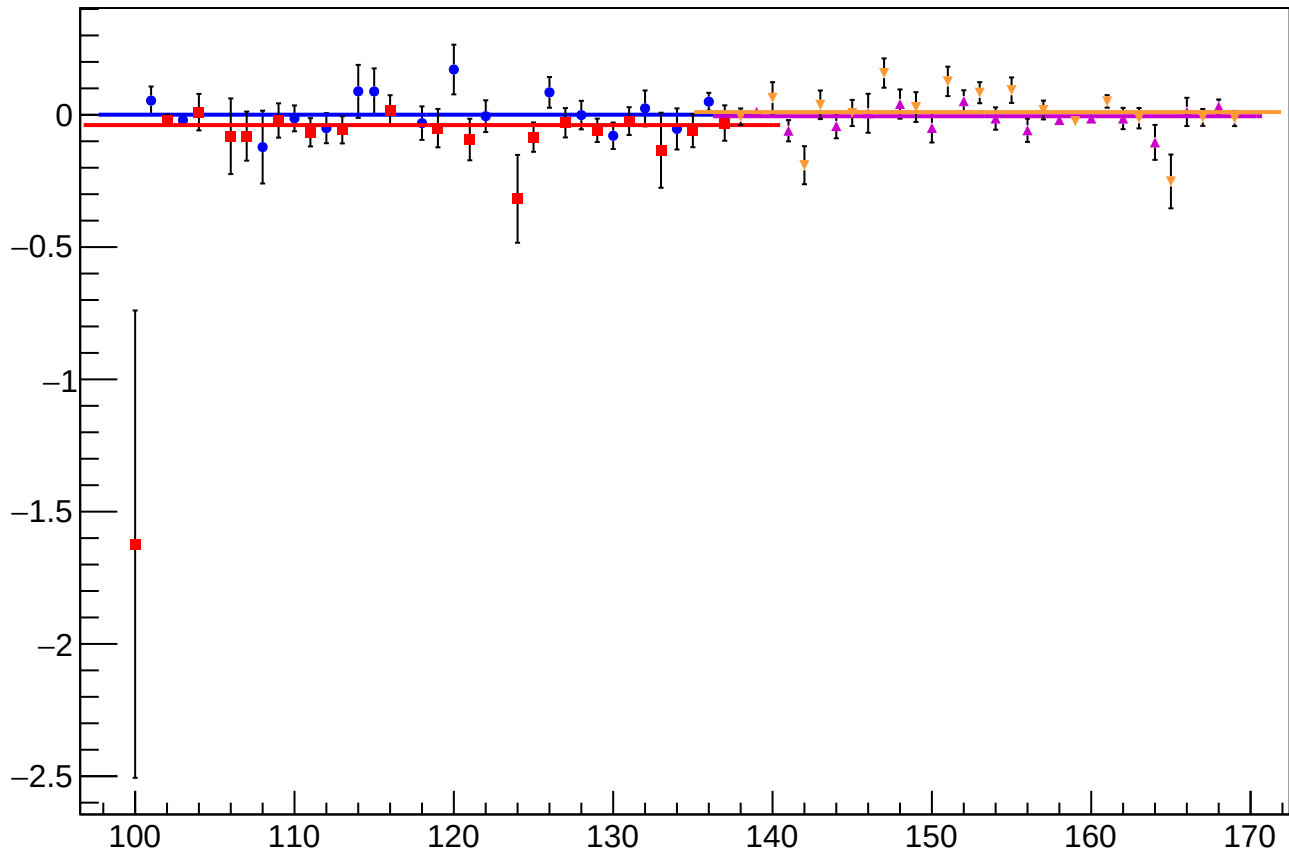
Right: 0.002+/-0.000 χ^2/NDF : 6735676.7/34

In: 0.002+/-0.000 χ^2/NDF :3181365.9/30

Out: 0.002+/-0.000 χ^2/NDF :6472344.8/35

All: 0.002+/-0.000 χ^2/NDF : 9827217.5/66

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.012 $\chi^2/\text{NDF}: 16.5/15$

Left Out: 0.010 ± 0.009 $\chi^2/\text{NDF}: 42.5/16$

Right Out: -0.039 ± 0.013 $\chi^2/\text{NDF}: 11.1/18$

Left In: -0.005 ± 0.007 $\chi^2/\text{NDF}: 13.9/14$

Left: 0.001 ± 0.006 $\chi^2/\text{NDF}: 58.3/31$

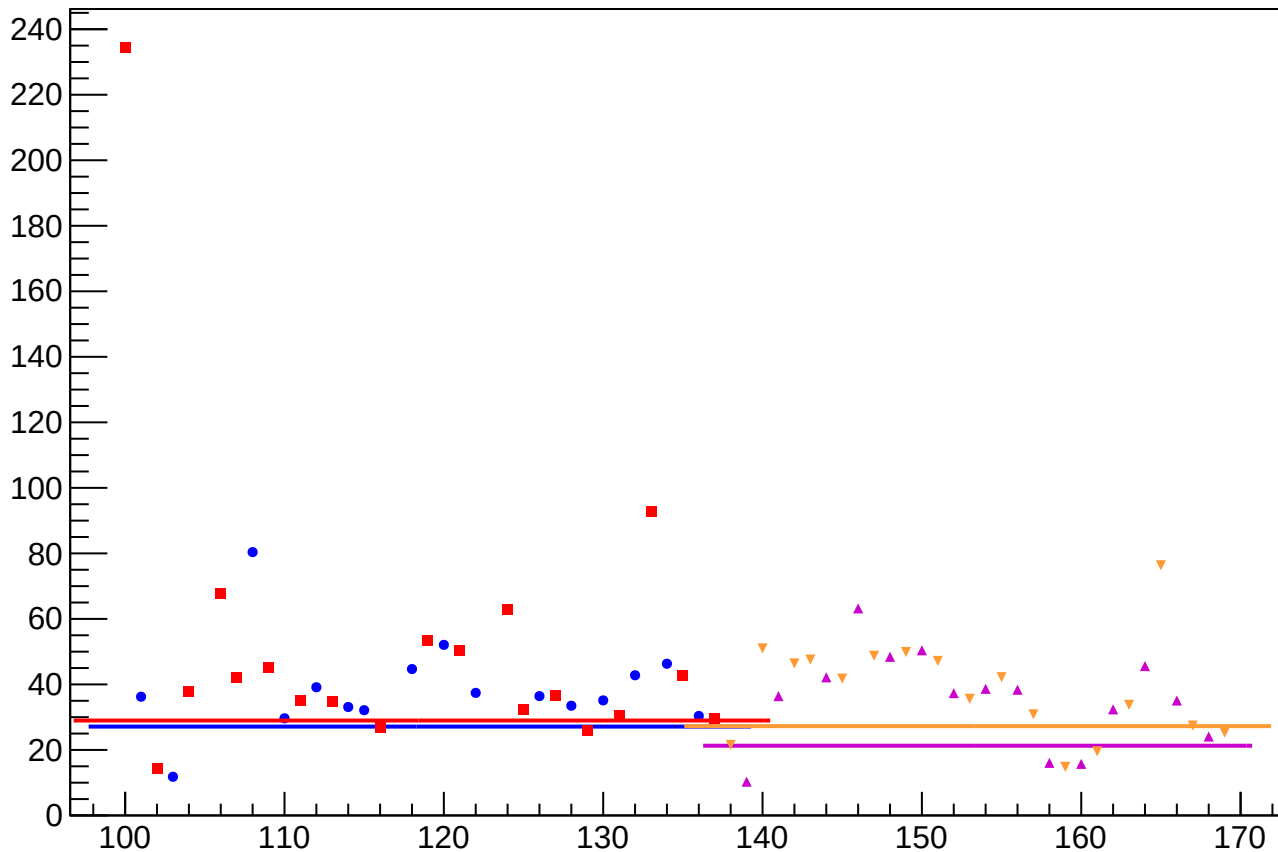
Right: -0.018 ± 0.009 $\chi^2/\text{NDF}: 32.6/34$

In: -0.004 ± 0.006 $\chi^2/\text{NDF}: 30.5/30$

Out: -0.005 ± 0.007 $\chi^2/\text{NDF}: 63.9/35$

All: -0.004 ± 0.005 $\chi^2/\text{NDF}: 94.5/66$

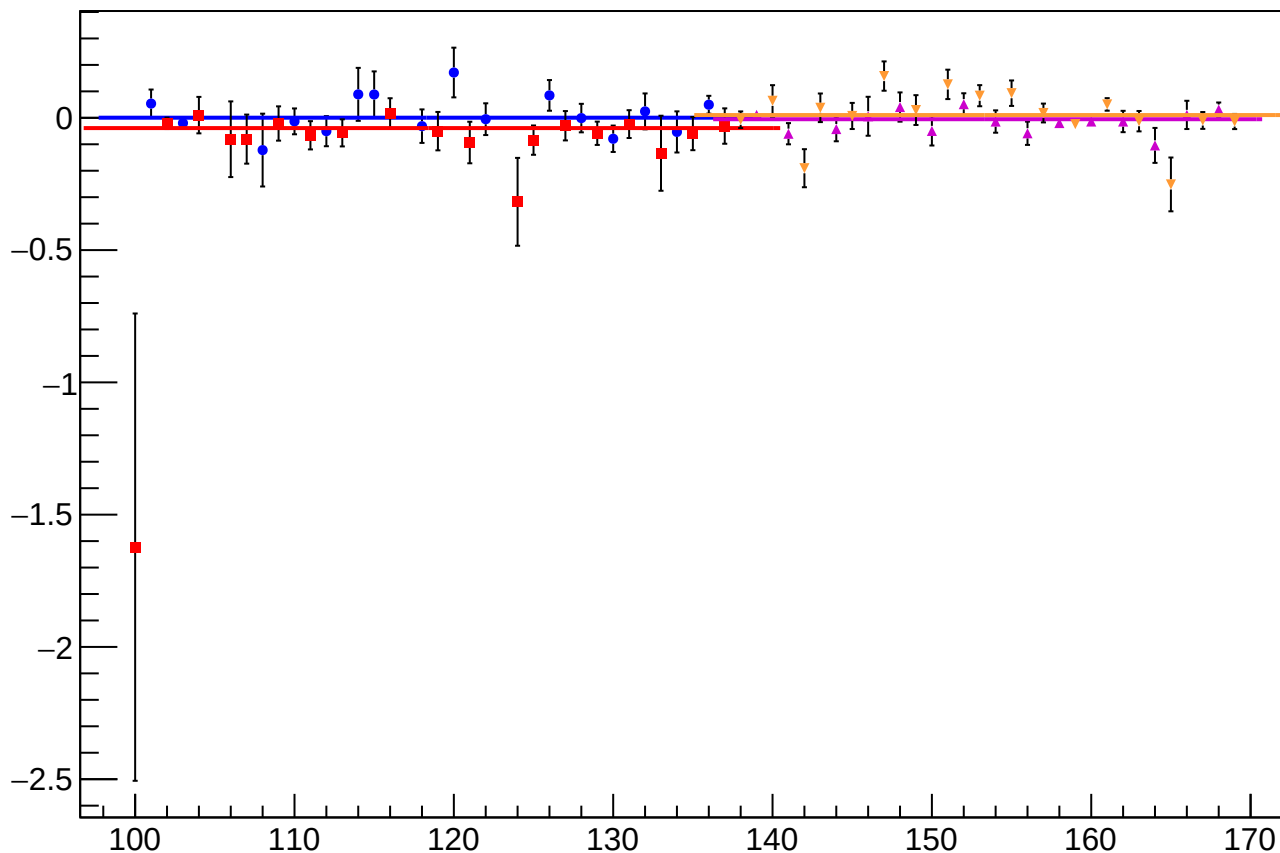
asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.127 $\pm$ 0.009 χ^2/NDF : 2415651.3/15
 Left Out: 27.264 $\pm$ 0.006 χ^2/NDF : 4048590.2/16
 Right Out: 28.982 $\pm$ 0.009 χ^2/NDF : 2455659.1/18
 Left In: 21.285 $\pm$ 0.005 χ^2/NDF : 5601141.8/14

Left: 23.849 $\pm$ 0.004 χ^2/NDF : 10201332.7/31
 Right: 28.009 $\pm$ 0.006 χ^2/NDF : 4893896.0/34
 In: 22.906 $\pm$ 0.004 χ^2/NDF : 8357488.9/30
 Out: 27.808 $\pm$ 0.005 χ^2/NDF : 6529505.0/35
 All: 25.075 $\pm$ 0.003 χ^2/NDF : 15416687.9/66

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.012 χ^2 /NDF: 16.5/15

Left Out: 0.010 $\pm$ 0.009 χ^2 /NDF:42.5/16

Right Out: -0.039 $\pm$ 0.013 χ^2 /NDF: 11.1/18

Left In: -0.005 $\pm$ 0.007 χ^2 /NDF:13.9/14

Left: 0.001 $\pm$ 0.006 χ^2 /NDF: 58.3/31

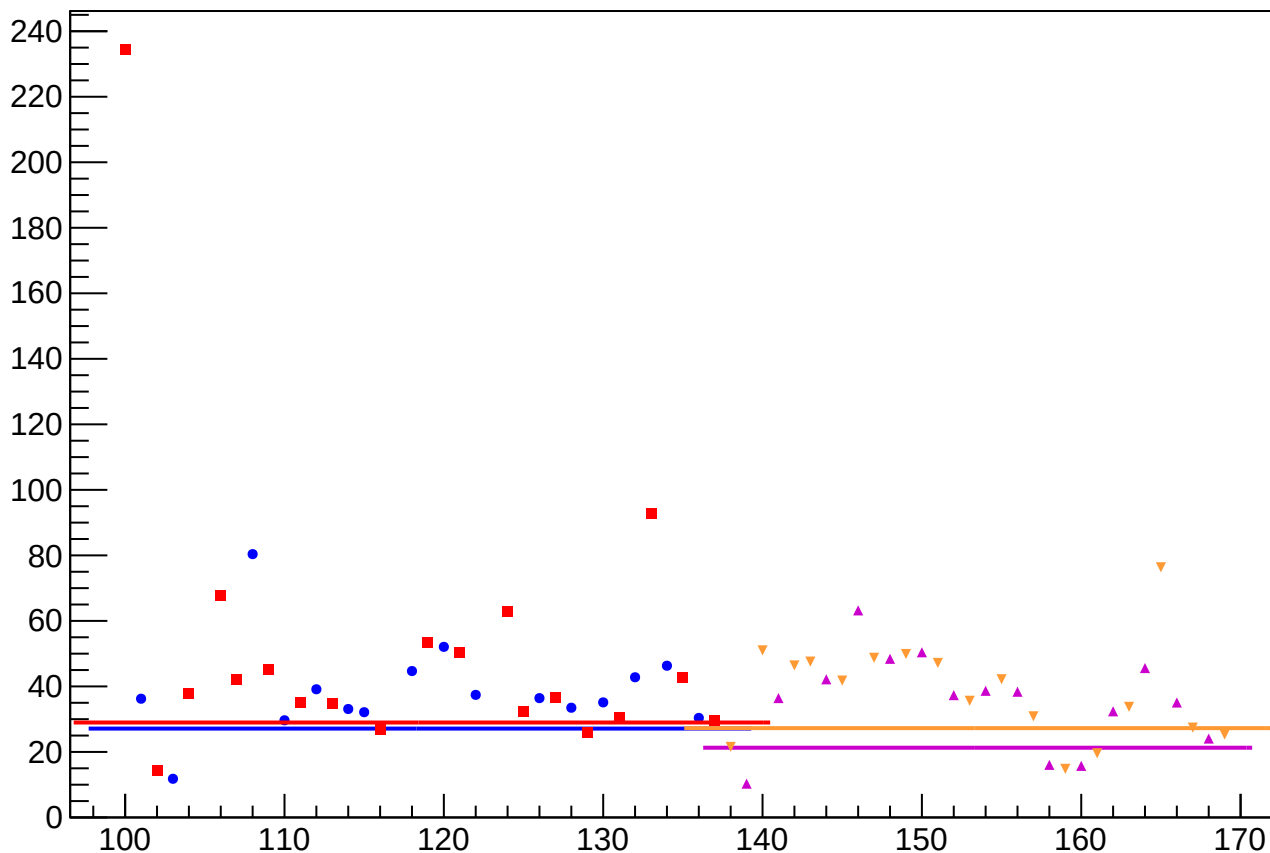
Right: -0.018 $\pm$ 0.009 χ^2 /NDF: 32.6/34

In: -0.004 $\pm$ 0.006 χ^2 /NDF:30.5/30

Out: -0.005 $\pm$ 0.007 χ^2 /NDF:63.9/35

All: -0.004 $\pm$ 0.005 χ^2 /NDF: 94.5/66

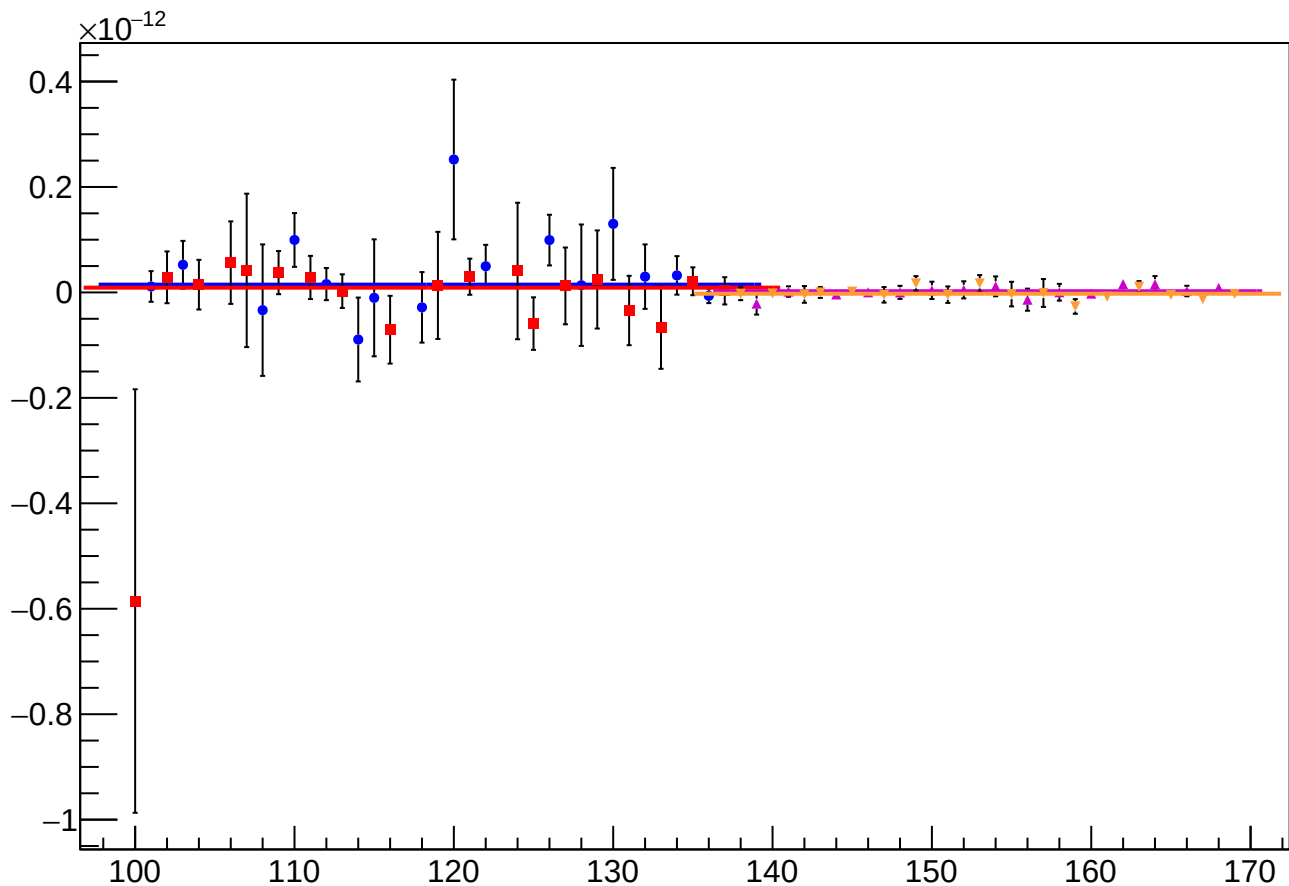
asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 27.127+/-0.009 χ^2/NDF : 2415651.3/15
 Left Out: 27.264+/-0.006 χ^2/NDF : 4048590.2/16
 Right Out: 28.982+/-0.009 χ^2/NDF : 2455659.1/18
 Left In: 21.285+/-0.005 χ^2/NDF : 5601141.8/14

Left: 23.849+/-0.004 χ^2/NDF : 10201332.7/31
 Right: 28.009+/-0.006 χ^2/NDF : 4893896.0/34
 In: 22.906+/-0.004 χ^2/NDF : 8357488.9/30
 Out: 27.808+/-0.005 χ^2/NDF : 6529505.0/35
 All: 25.075+/-0.003 χ^2/NDF : 15416687.9/66

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 15.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 10.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 9.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 6.8/14

Left: -0.000+/-0.000 χ^2/NDF : 19.0/31

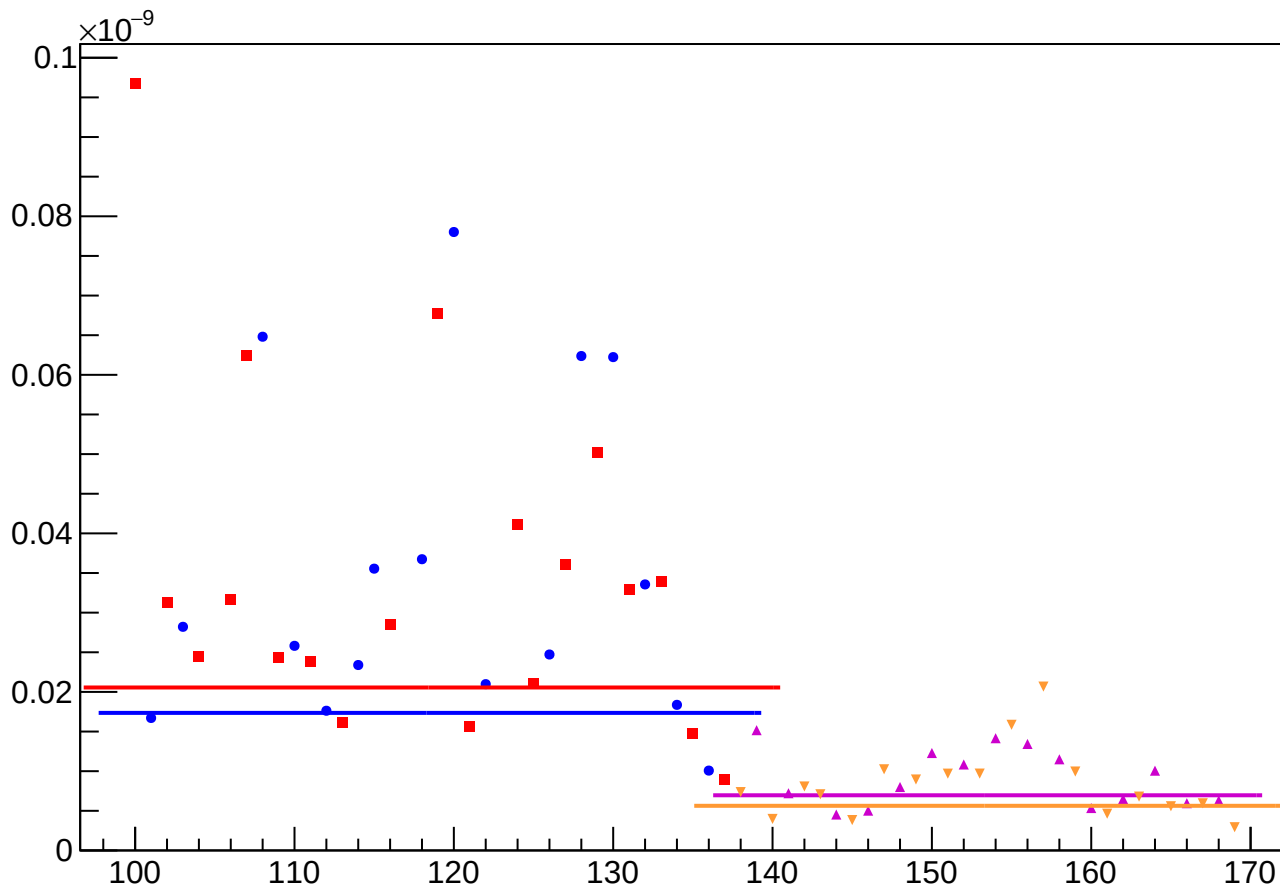
Right: 0.000+/-0.000 χ^2/NDF : 25.1/34

In: 0.000+/-0.000 χ^2/NDF : 24.3/30

Out: -0.000+/-0.000 χ^2/NDF : 20.7/35

All: 0.000+/-0.000 χ^2/NDF : 47.1/66

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2442014.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :2732518.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1925673.6/18

Left In: 0.000+/-0.000 χ^2/NDF :1863591.5/14

Left: 0.000+/-0.000 χ^2/NDF : 4852813.8/31

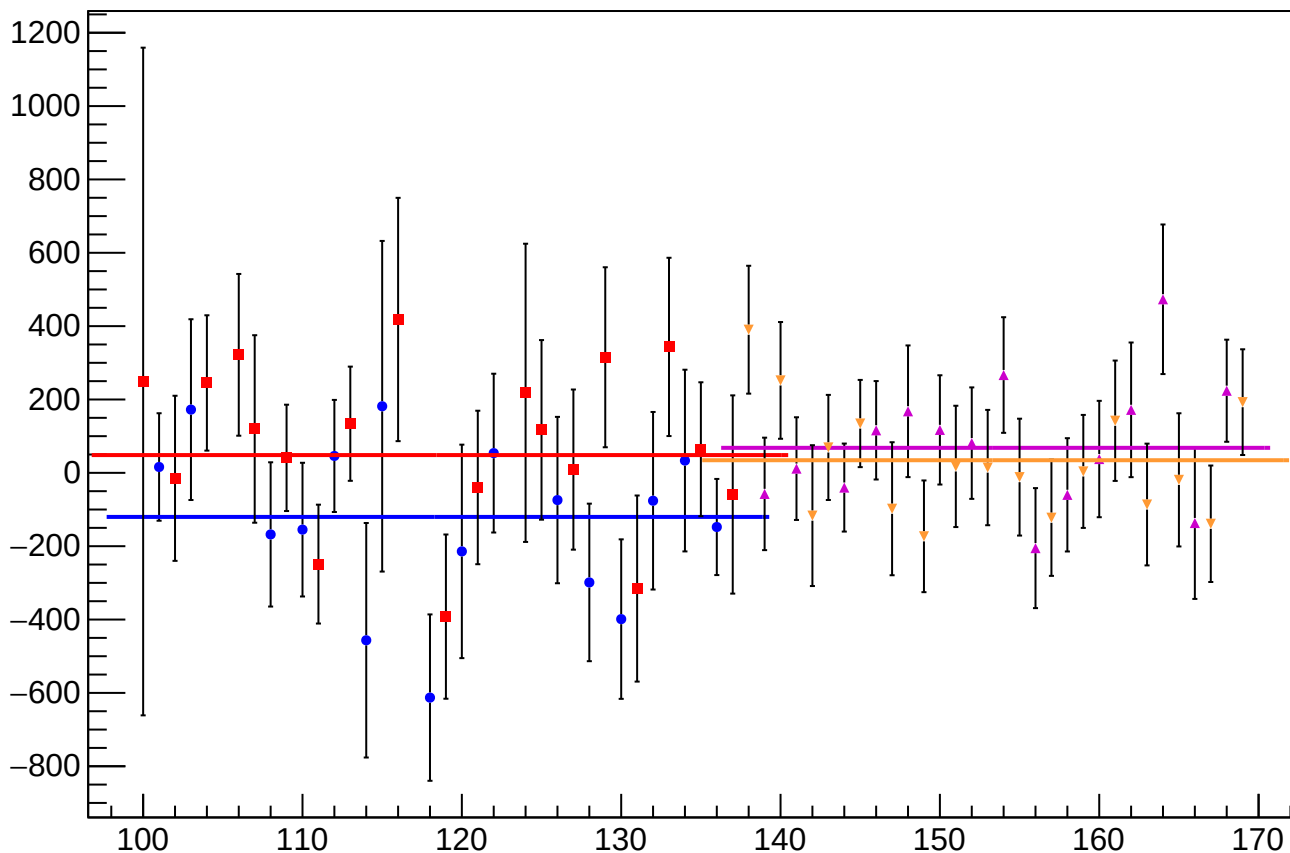
Right: 0.000+/-0.000 χ^2/NDF : 4467051.7/34

In: 0.000+/-0.000 χ^2/NDF :6524403.3/30

Out: 0.000+/-0.000 χ^2/NDF :8282886.4/35

All: 0.000+/-0.000 χ^2/NDF : 15156703.3/66

reg_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -120.159 $\pm$ 51.103 χ^2 /NDF: 13.4/15

Left Out: 34.405 $\pm$ 38.282 χ^2 /NDF:14.4/16

Right Out: 48.449 $\pm$ 49.910 χ^2 /NDF: 17.0/18

Left In: 68.202 $\pm$ 39.972 χ^2 /NDF:13.8/14

Left: 50.574 $\pm$ 27.648 χ^2 /NDF: 28.6/31

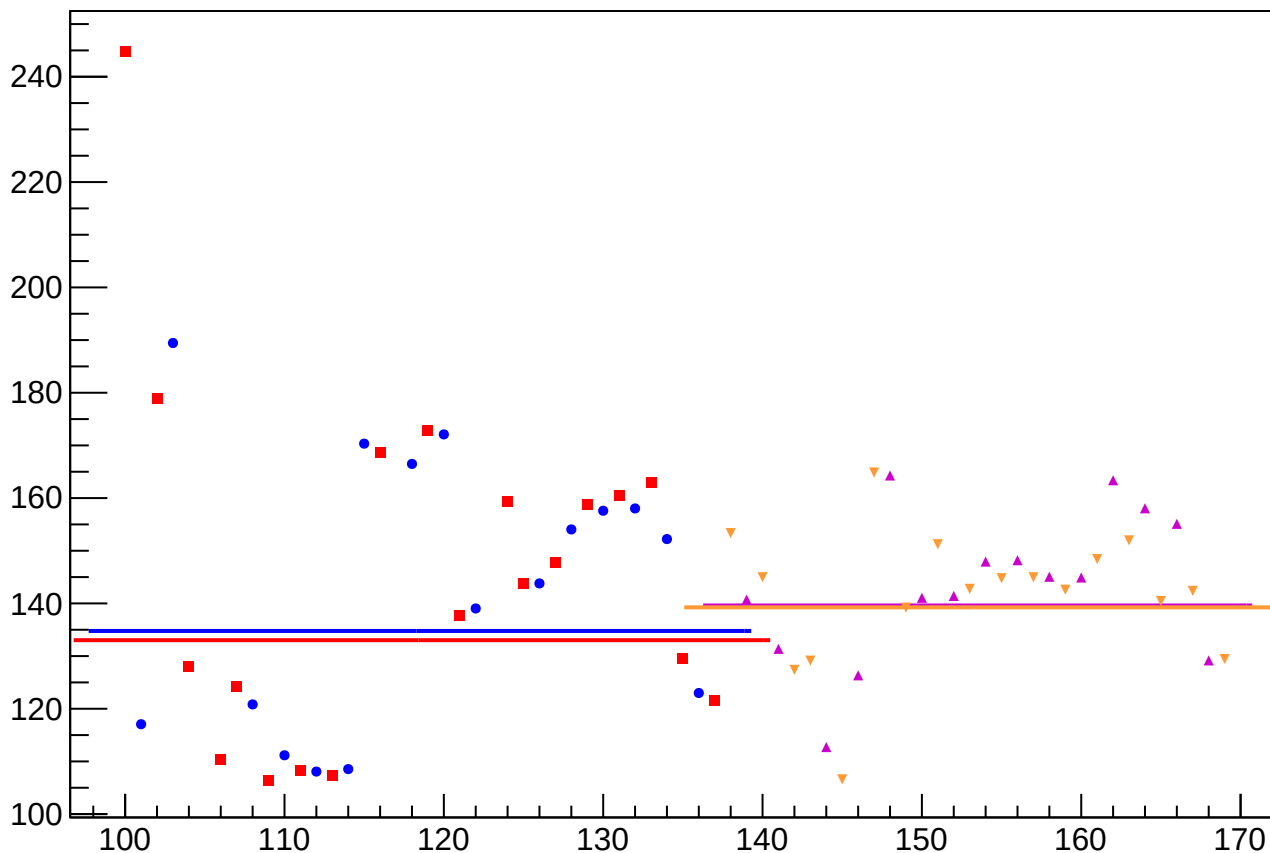
Right: -33.863 $\pm$ 35.706 χ^2 /NDF: 36.0/34

In: -3.296 $\pm$ 31.485 χ^2 /NDF:35.6/30

Out: 39.607 $\pm$ 30.375 χ^2 /NDF:31.4/35

All: 18.925 $\pm$ 21.860 χ^2 /NDF: 68.0/66

reg_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 134.771 $\pm$ 0.036 χ^2 /NDF: 416778.7/15

Left Out: 139.252 $\pm$ 0.027 χ^2 /NDF: 269590.9/16

Right Out: 133.019 $\pm$ 0.035 χ^2 /NDF: 495717.0/18

Left In: 139.613 $\pm$ 0.028 χ^2 /NDF: 253473.5/14

Left: 139.424 $\pm$ 0.020 χ^2 /NDF: 523149.5/31

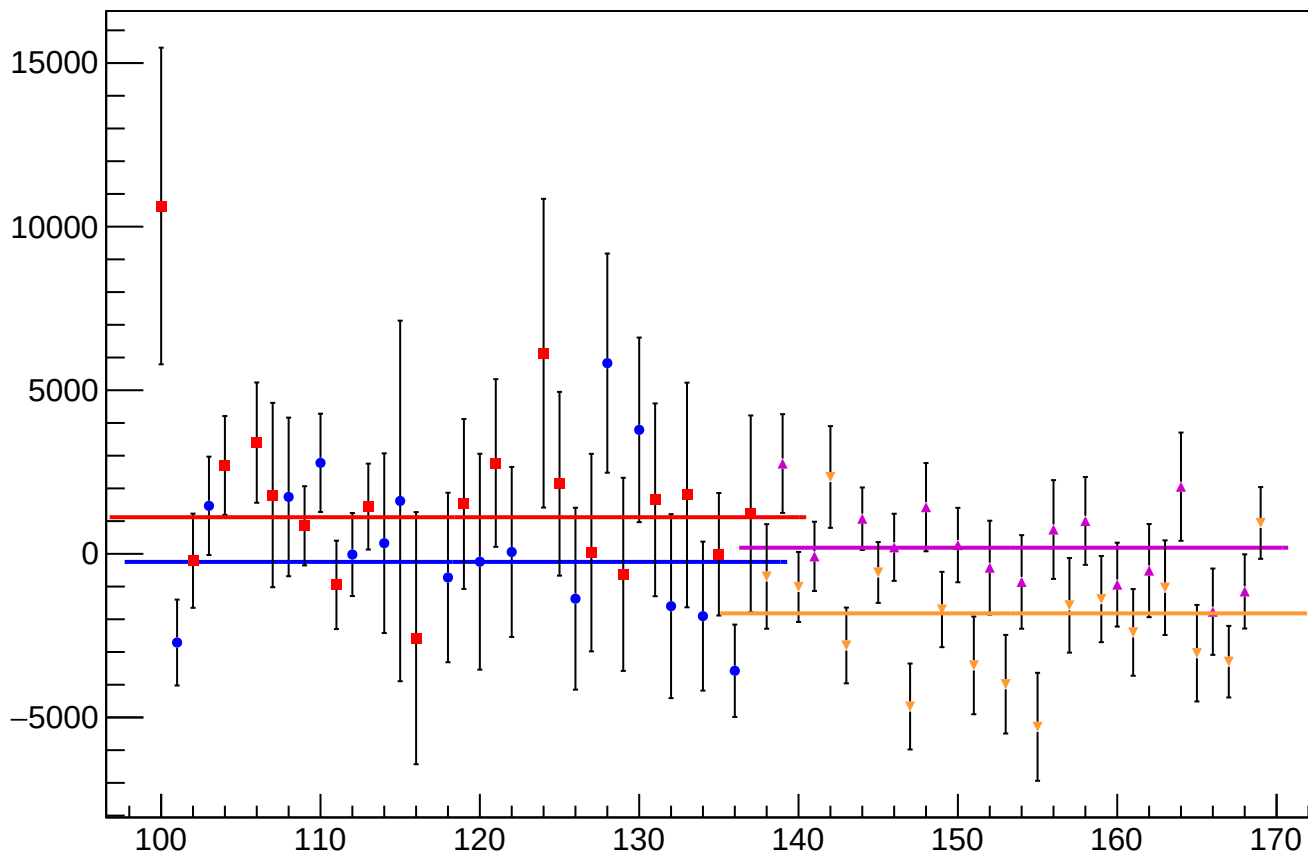
Right: 133.875 $\pm$ 0.025 χ^2 /NDF: 913698.6/34

In: 137.775 $\pm$ 0.022 χ^2 /NDF: 681389.4/30

Out: 136.943 $\pm$ 0.021 χ^2 /NDF: 784943.2/35

All: 137.344 $\pm$ 0.015 χ^2 /NDF: 1467055.4/66

asym_sam_48_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -246.357 $\pm$ 501.413 χ^2 /NDF: 21.6/15

Left Out: -1819.266 $\pm$ 310.049 χ^2 /NDF:32.6/16

Right Out: 1119.420 $\pm$ 468.400 χ^2 /NDF: 13.4/18

Left In: 187.139 $\pm$ 324.593 χ^2 /NDF:11.8/14

Left: -862.018 $\pm$ 224.203 χ^2 /NDF: 64.3/31

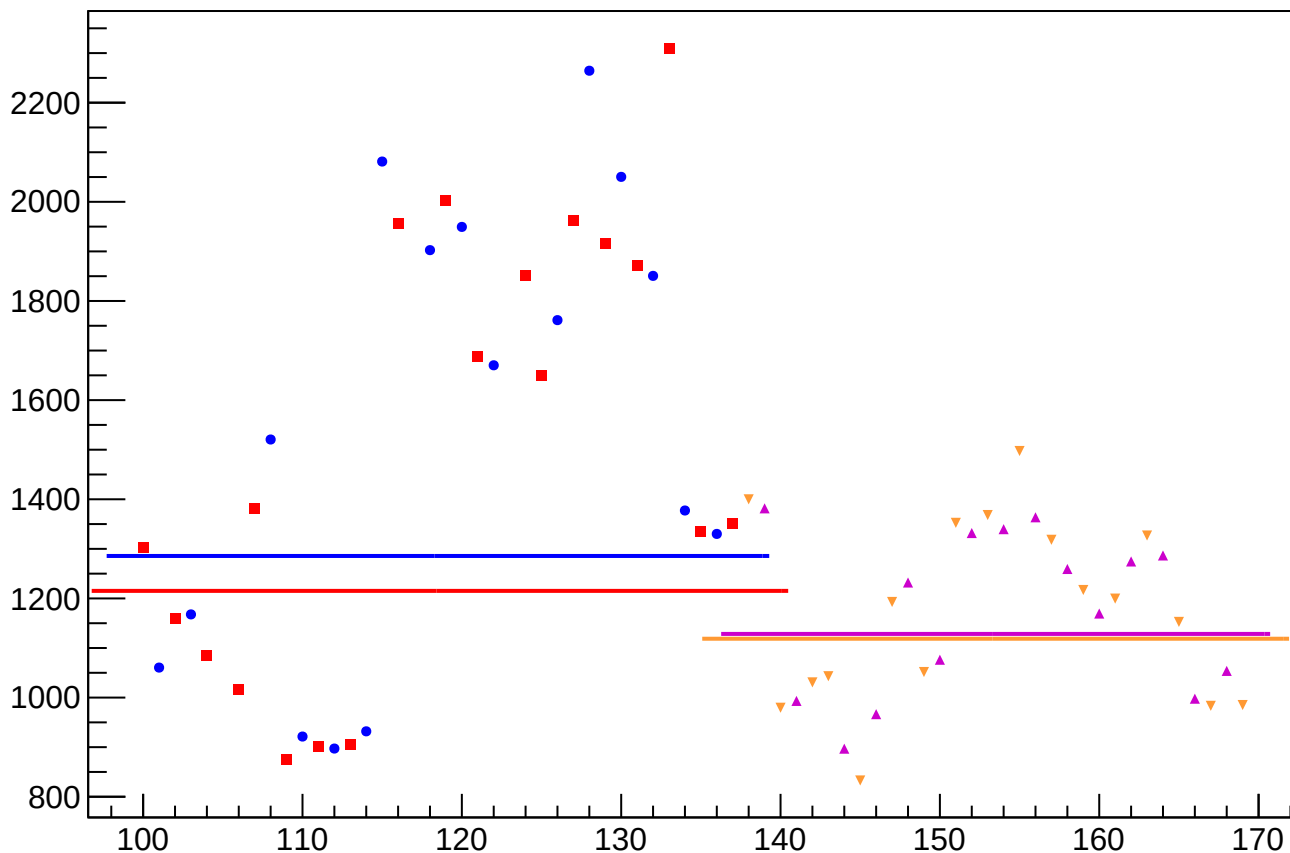
Right: 482.970 $\pm$ 342.285 χ^2 /NDF: 39.0/34

In: 59.122 $\pm$ 272.481 χ^2 /NDF:33.9/30

Out: -923.952 $\pm$ 258.540 χ^2 /NDF:73.3/35

All: -458.207 $\pm$ 187.550 χ^2 /NDF: 114.1/66

asym_sam_48_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1285.668 $\pm$ 0.355 χ^2 /NDF: 1170437.4/15

Left Out: 1118.719 $\pm$ 0.219 χ^2 /NDF: 681890.5/16

Right Out: 1215.237 $\pm$ 0.331 χ^2 /NDF: 1386290.4/18

Left In: 1128.430 $\pm$ 0.230 χ^2 /NDF: 493514.7/14

Left: 1123.352 $\pm$ 0.159 χ^2 /NDF: 1176341.3/31

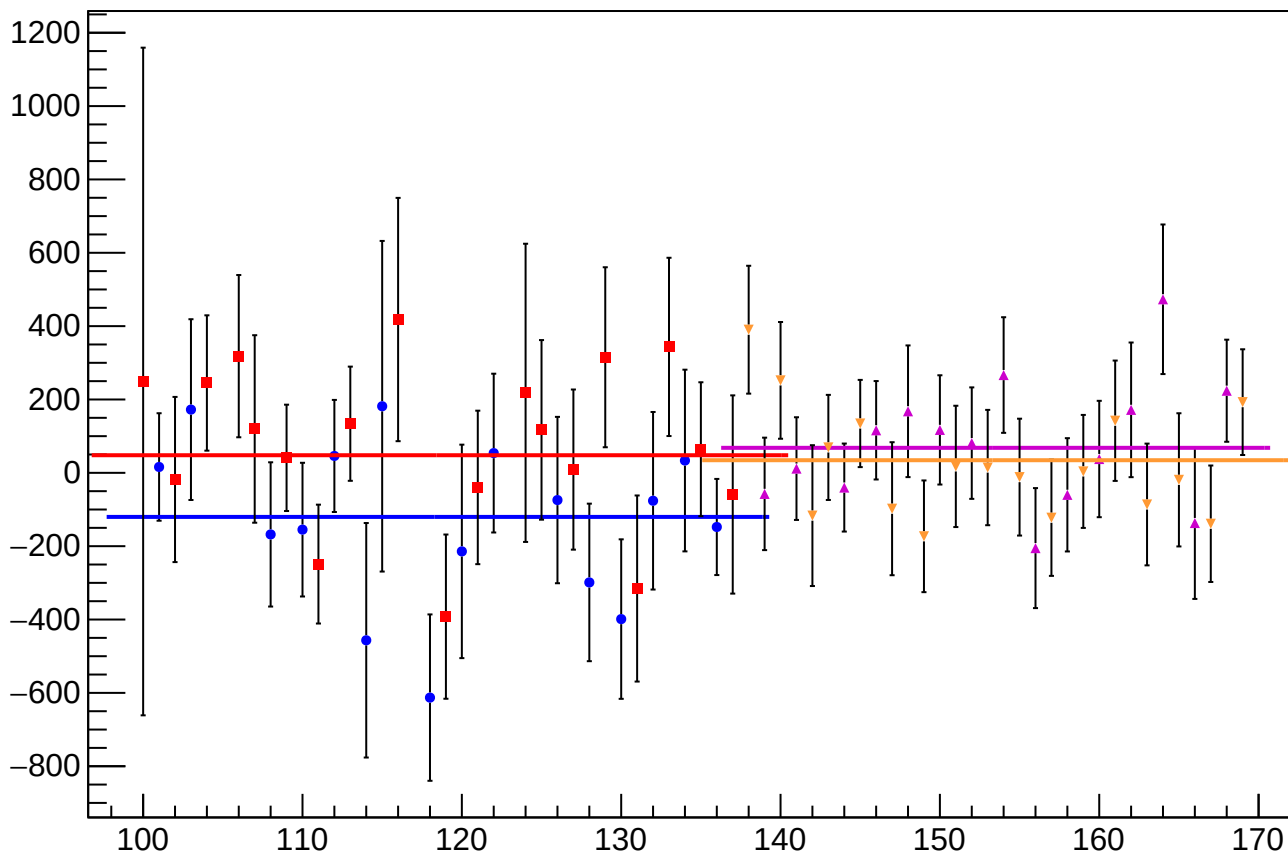
Right: 1248.058 $\pm$ 0.242 χ^2 /NDF: 2577799.9/34

In: 1174.864 $\pm$ 0.193 χ^2 /NDF: 1802548.6/30

Out: 1148.125 $\pm$ 0.183 χ^2 /NDF: 2127229.5/35

All: 1160.793 $\pm$ 0.133 χ^2 /NDF: 3939913.6/66

cor_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -120.169 ± 51.103 χ^2/NDF : 13.4/15

Left Out: 34.411 ± 38.282 χ^2/NDF : 14.4/16

Right Out: 48.013 ± 49.919 χ^2/NDF : 17.0/18

Left In: 68.203 ± 39.972 χ^2/NDF : 13.8/14

Left: 50.577 ± 27.648 χ^2/NDF : 28.6/31

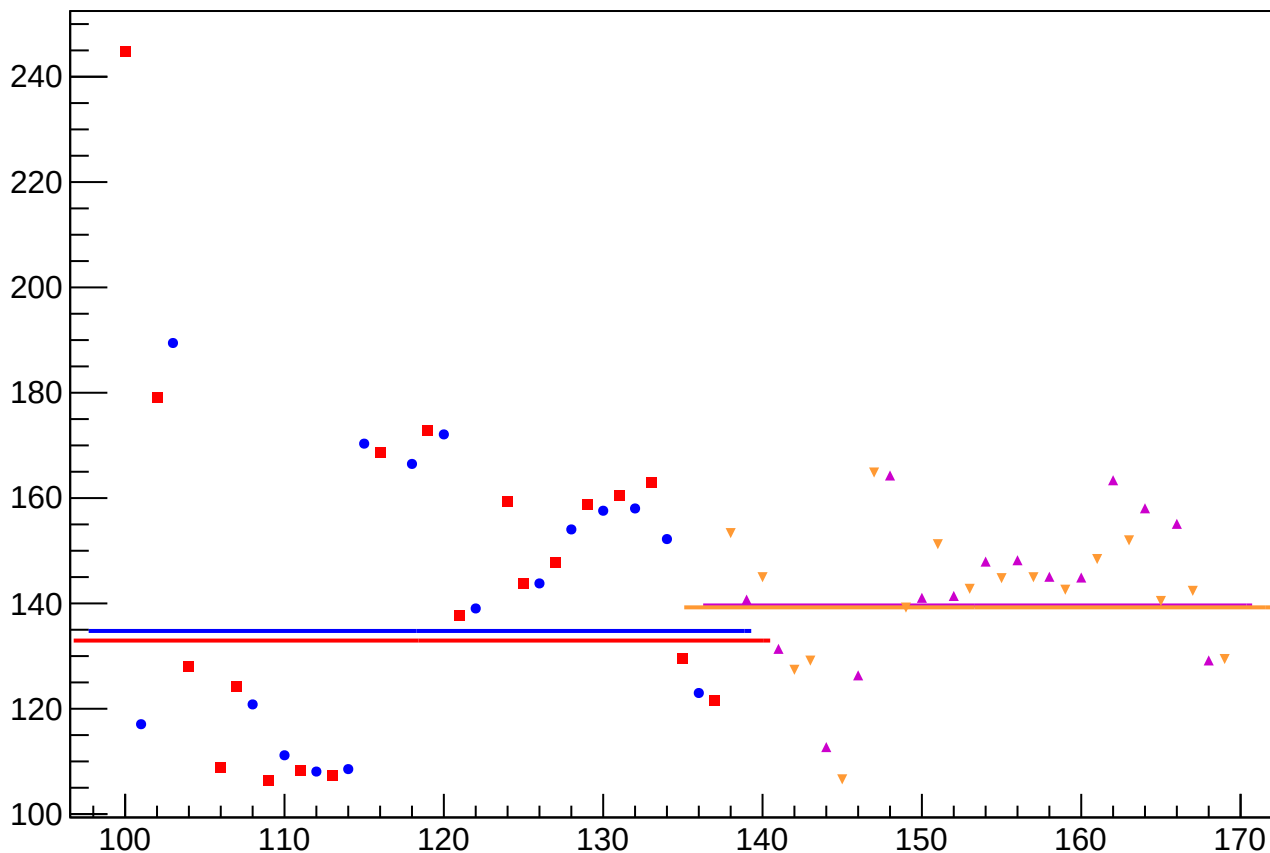
Right: -34.107 ± 35.709 χ^2/NDF : 35.9/34

In: -3.300 ± 31.485 χ^2/NDF : 35.6/30

Out: 39.448 ± 30.377 χ^2/NDF : 31.4/35

All: 18.839 ± 21.861 χ^2/NDF : 68.0/66

cor_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 134.771 ± 0.036 $\chi^2/\text{NDF}: 416781.8/15$

Left Out: 139.252 ± 0.027 $\chi^2/\text{NDF}: 269590.9/16$

Right Out: 132.947 ± 0.035 $\chi^2/\text{NDF}: 498850.6/18$

Left In: 139.613 ± 0.028 $\chi^2/\text{NDF}: 253473.6/14$

Left: 139.424 ± 0.020 $\chi^2/\text{NDF}: 523149.5/31$

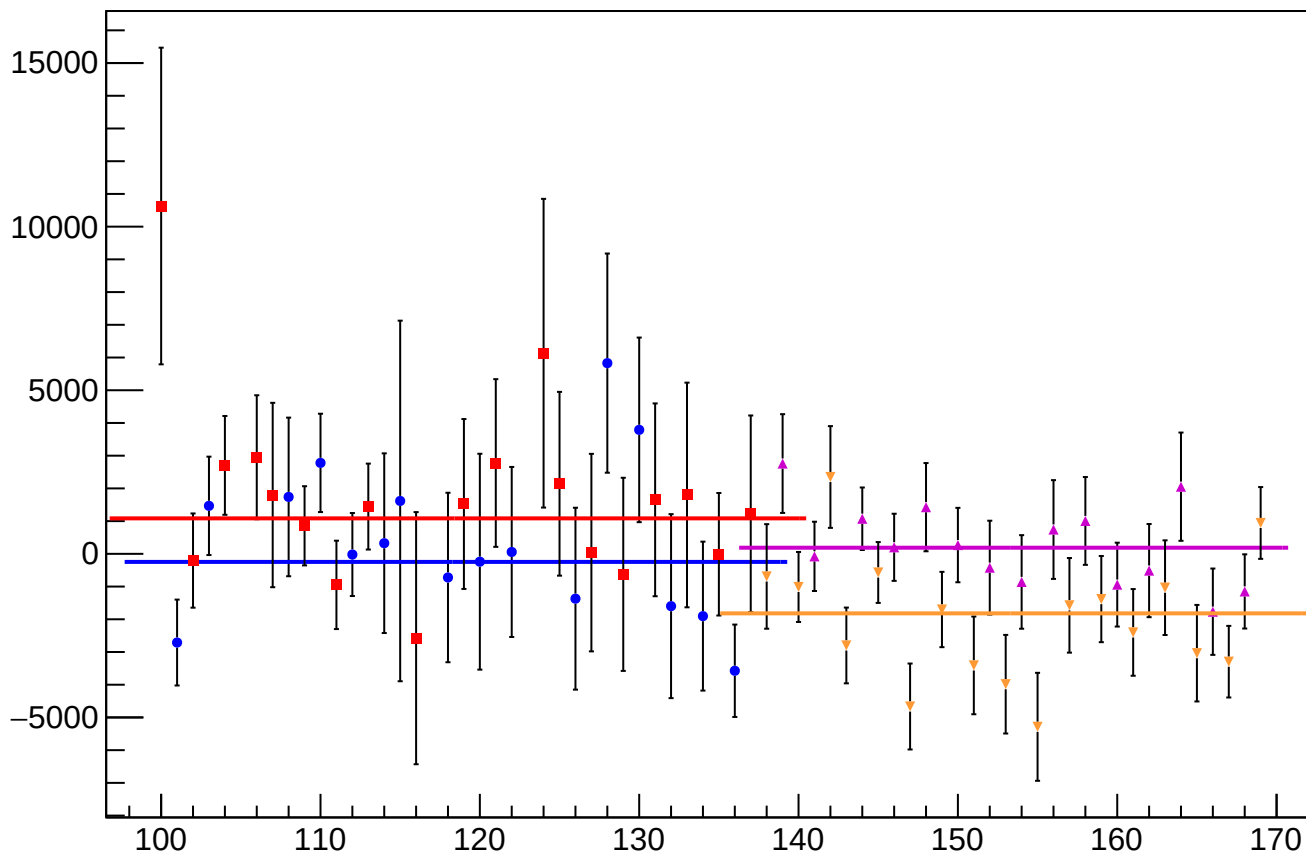
Right: 133.838 ± 0.025 $\chi^2/\text{NDF}: 916936.5/34$

In: 137.775 ± 0.022 $\chi^2/\text{NDF}: 681392.4/30$

Out: 136.917 ± 0.021 $\chi^2/\text{NDF}: 788530.9/35$

All: 137.331 ± 0.015 $\chi^2/\text{NDF}: 1470692.4/66$

asym_sam_48_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -246.428 $\pm$ 501.418 χ^2 /NDF: 21.6/15

Left Out: -1819.257 $\pm$ 310.049 χ^2 /NDF:32.6/16

Right Out: 1084.094 $\pm$ 469.323 χ^2 /NDF: 12.8/18

Left In: 187.150 $\pm$ 324.593 χ^2 /NDF:11.8/14

Left: -862.009 $\pm$ 224.203 χ^2 /NDF: 64.3/31

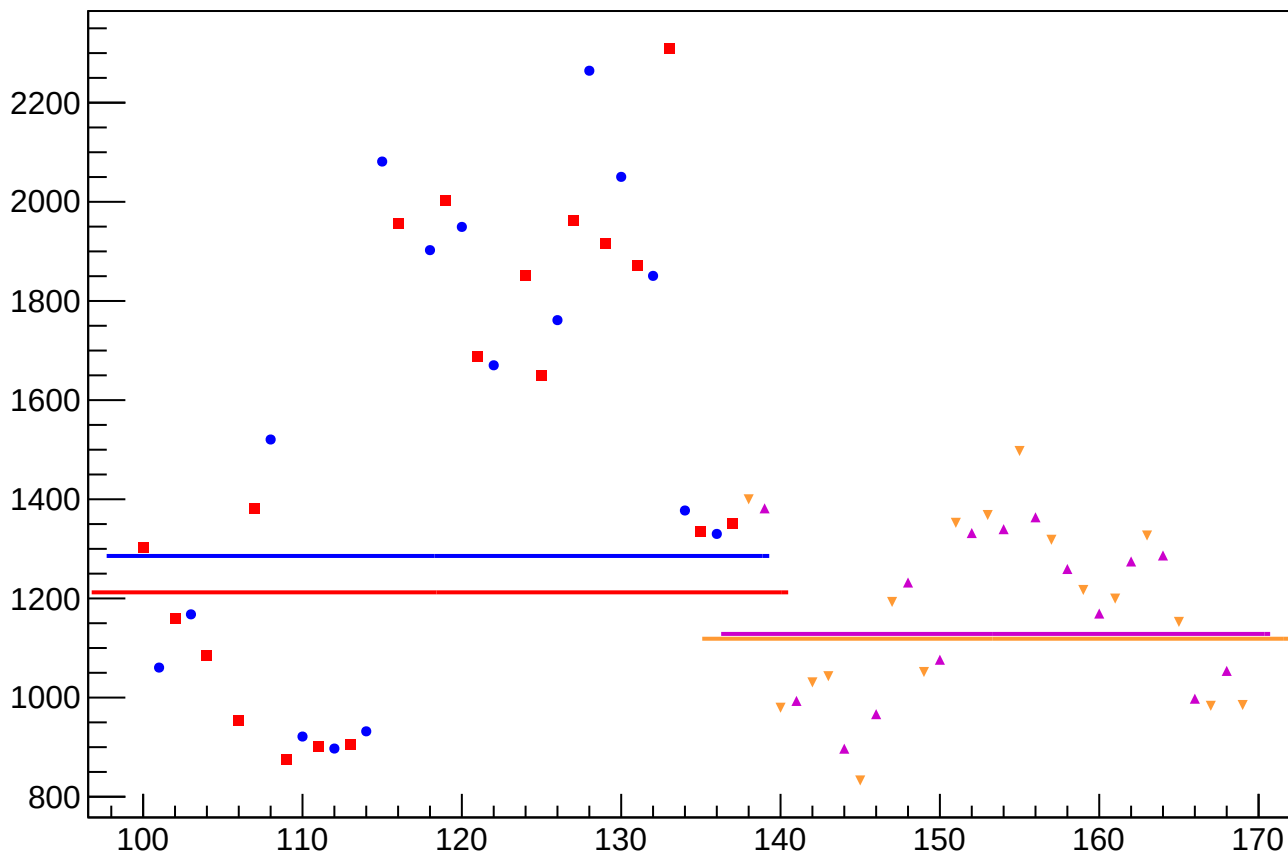
Right: 462.775 $\pm$ 342.647 χ^2 /NDF: 38.1/34

In: 59.111 $\pm$ 272.482 χ^2 /NDF:33.9/30

Out: -937.131 $\pm$ 258.695 χ^2 /NDF:72.0/35

All: -464.851 $\pm$ 187.610 χ^2 /NDF: 112.9/66

asym_sam_48_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1285.682 $\pm$ 0.355 χ^2 /NDF: 1170412.5/15

Left Out: 1118.719 $\pm$ 0.219 χ^2 /NDF: 681891.8/16

Right Out: 1212.276 $\pm$ 0.332 χ^2 /NDF: 1400635.5/18

Left In: 1128.430 $\pm$ 0.230 χ^2 /NDF: 493512.3/14

Left: 1123.352 $\pm$ 0.159 χ^2 /NDF: 1176340.2/31

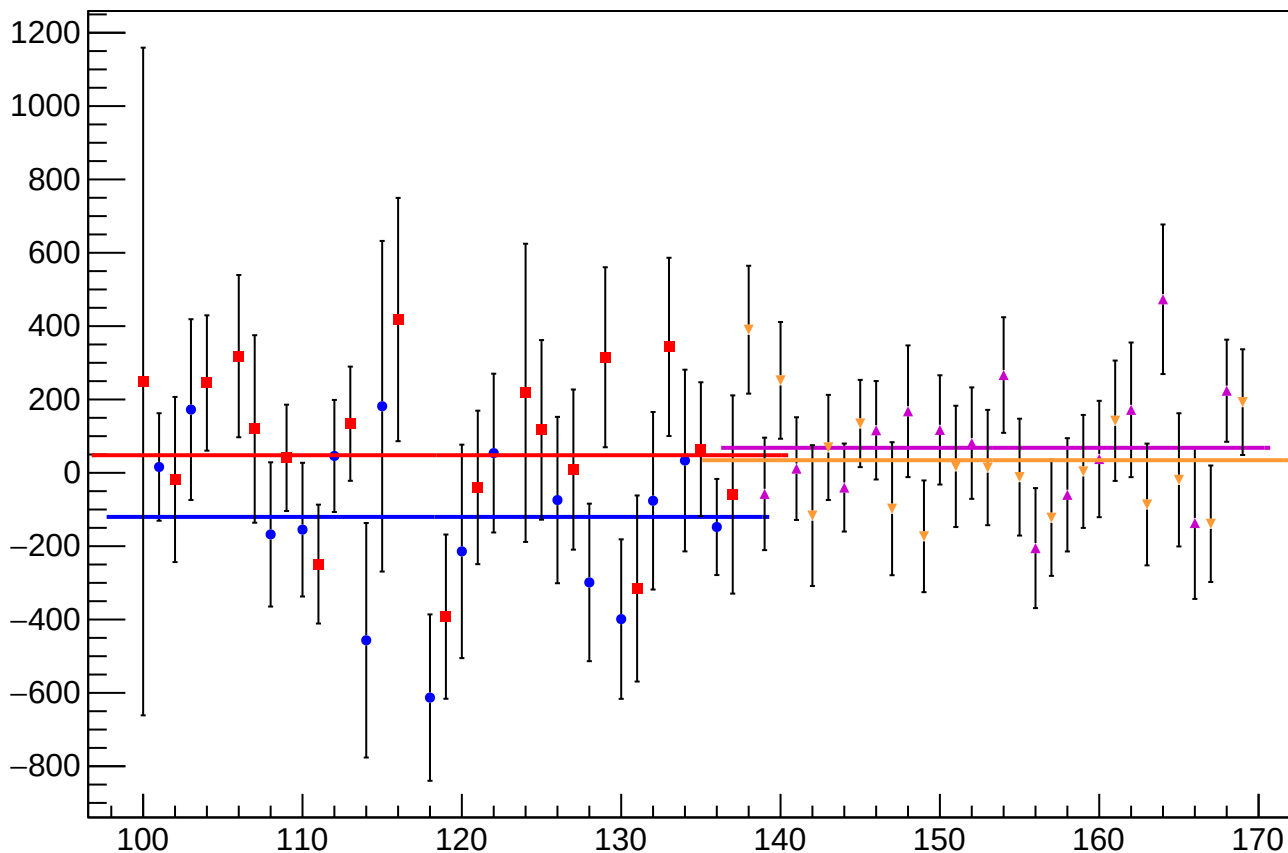
Right: 1246.554 $\pm$ 0.242 χ^2 /NDF: 2593895.7/34

In: 1174.868 $\pm$ 0.193 χ^2 /NDF: 1802542.6/30

Out: 1147.144 $\pm$ 0.183 χ^2 /NDF: 2137856.1/35

All: 1160.287 $\pm$ 0.133 χ^2 /NDF: 3951287.7/66

eigen_cor_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -120.169 $\pm$ 51.103 χ^2 /NDF: 13.4/15

Left Out: 34.411 $\pm$ 38.282 χ^2 /NDF:14.4/16

Right Out: 48.013 $\pm$ 49.919 χ^2 /NDF: 17.0/18

Left In: 68.203 $\pm$ 39.972 χ^2 /NDF:13.8/14

Left: 50.577 $\pm$ 27.648 χ^2 /NDF: 28.6/31

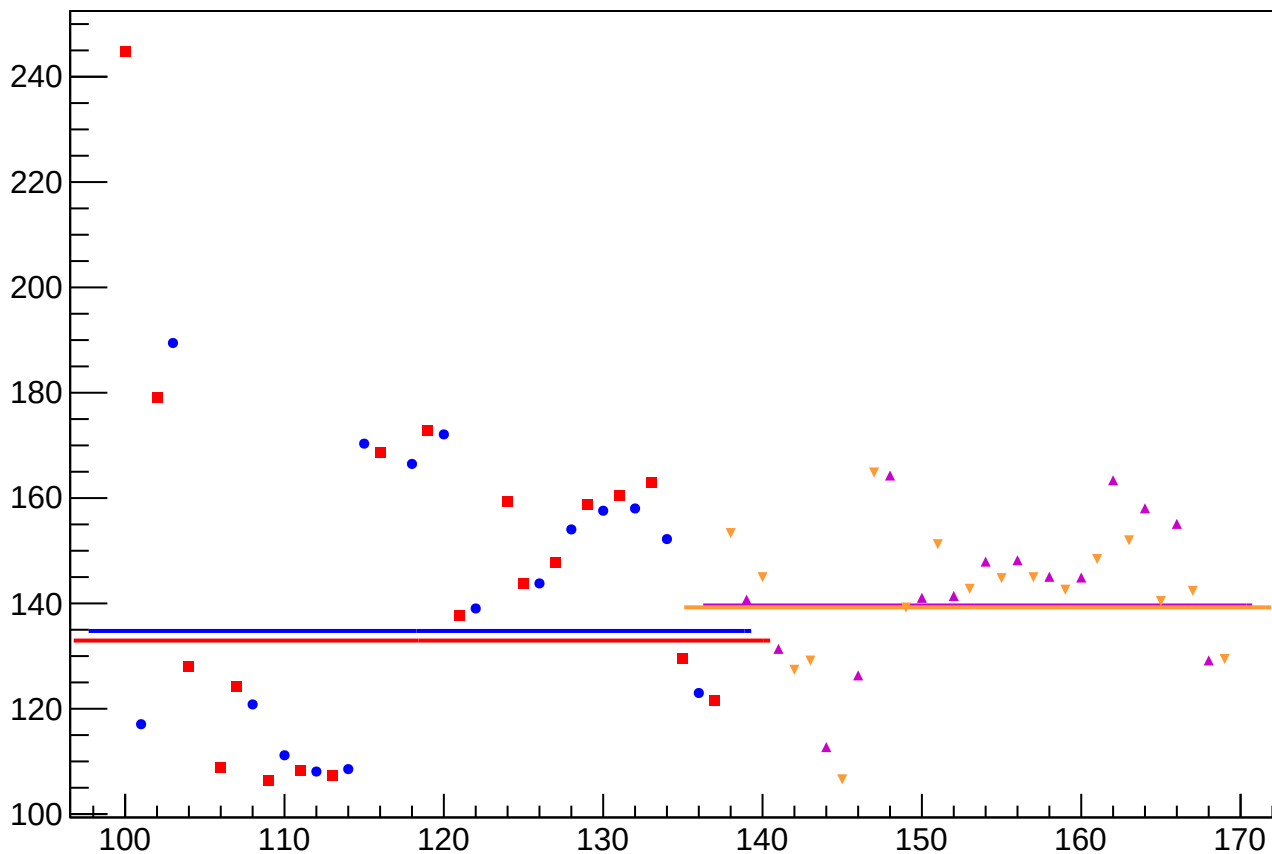
Right: -34.107 $\pm$ 35.709 χ^2 /NDF: 35.9/34

In: -3.300 $\pm$ 31.485 χ^2 /NDF:35.6/30

Out: 39.448 $\pm$ 30.377 χ^2 /NDF:31.4/35

All: 18.839 $\pm$ 21.861 χ^2 /NDF: 68.0/66

eigen_cor_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 134.771 $\pm$ 0.036 χ^2 /NDF: 416781.8/15

Left Out: 139.252 $\pm$ 0.027 χ^2 /NDF: 269590.9/16

Right Out: 132.947 $\pm$ 0.035 χ^2 /NDF: 498850.6/18

Left In: 139.613 $\pm$ 0.028 χ^2 /NDF: 253473.6/14

Left: 139.424 $\pm$ 0.020 χ^2 /NDF: 523149.5/31

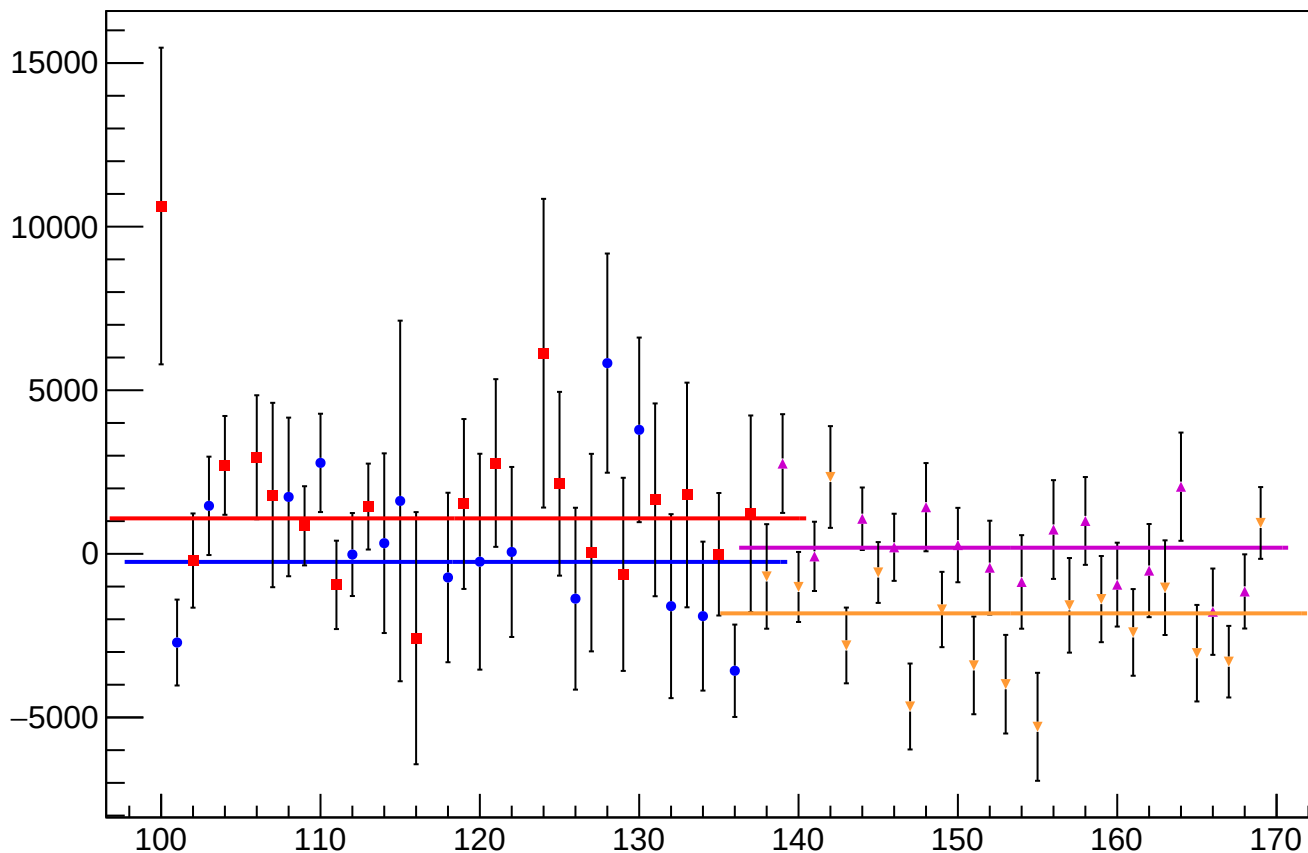
Right: 133.838 $\pm$ 0.025 χ^2 /NDF: 916936.5/34

In: 137.775 $\pm$ 0.022 χ^2 /NDF: 681392.4/30

Out: 136.917 $\pm$ 0.021 χ^2 /NDF: 788530.9/35

All: 137.331 $\pm$ 0.015 χ^2 /NDF: 1470692.4/66

asym_sam_48_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -246.428+/-501.418 χ^2/NDF : 21.6/15

Left Out: -1819.257+/-310.049 χ^2/NDF : 32.6/16

Right Out: 1084.094+/-469.323 χ^2/NDF : 12.8/18

Left In: 187.150+/-324.593 χ^2/NDF : 11.8/14

Left: -862.009+/-224.203 χ^2/NDF : 64.3/31

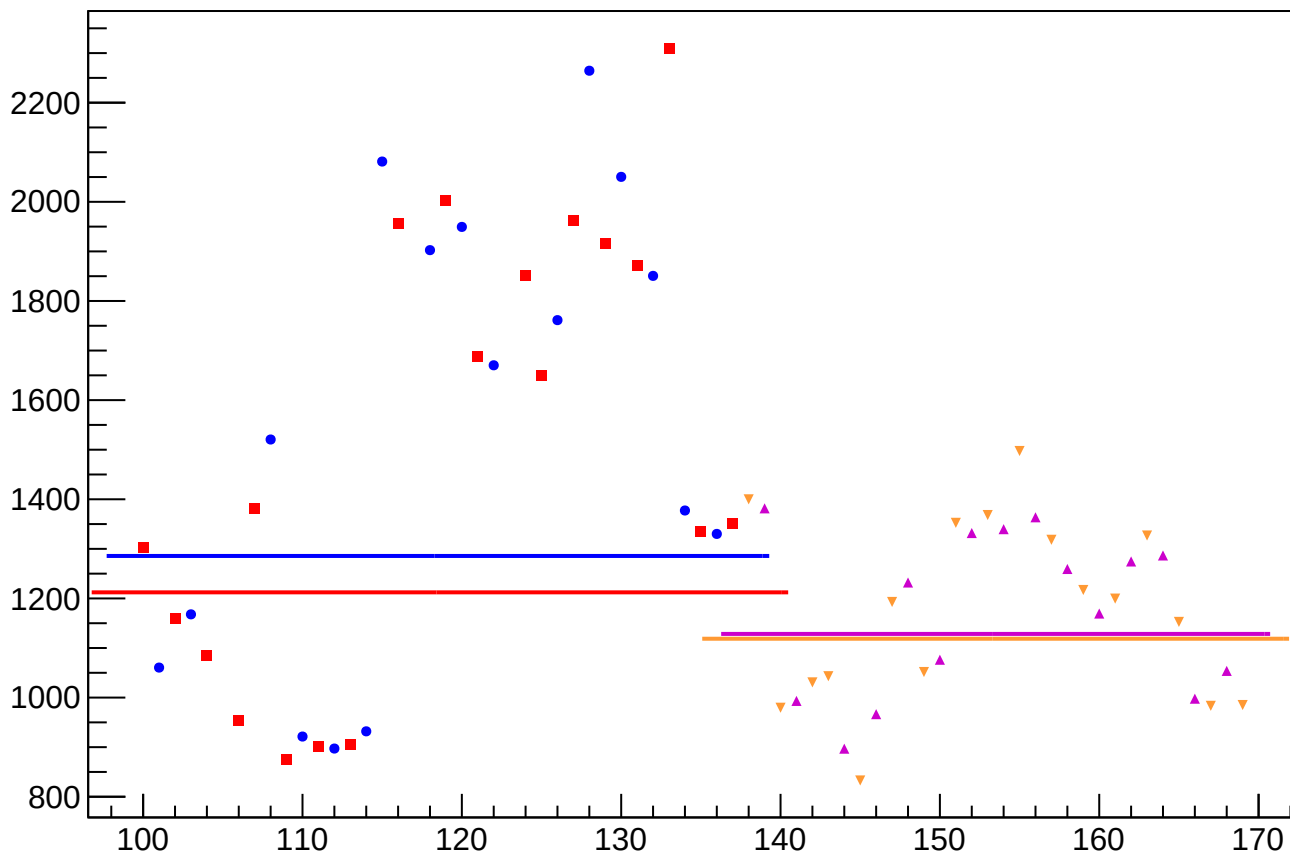
Right: 462.775+/-342.647 χ^2/NDF : 38.1/34

In: 59.111+/-272.482 χ^2/NDF : 33.9/30

Out: -937.131+/-258.695 χ^2/NDF : 72.0/35

All: -464.851+/-187.610 χ^2/NDF : 112.9/66

asym_sam_48_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1285.682 $\pm$ 0.355 χ^2 /NDF: 1170412.5/15

Left Out: 1118.719 $\pm$ 0.219 χ^2 /NDF: 681891.8/16

Right Out: 1212.276 $\pm$ 0.332 χ^2 /NDF: 1400635.5/18

Left In: 1128.430 $\pm$ 0.230 χ^2 /NDF: 493512.3/14

Left: 1123.352 $\pm$ 0.159 χ^2 /NDF: 1176340.2/31

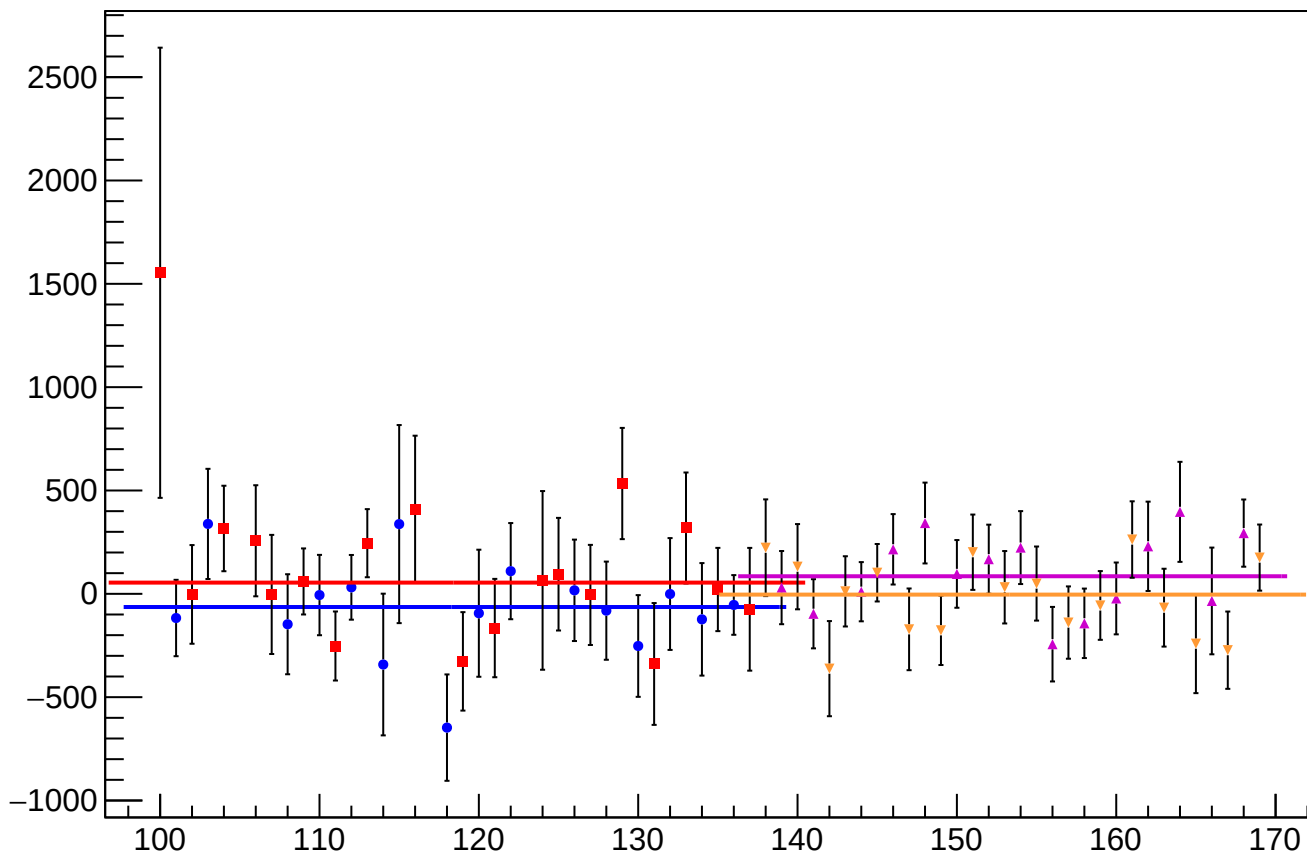
Right: 1246.554 $\pm$ 0.242 χ^2 /NDF: 2593895.7/34

In: 1174.868 $\pm$ 0.193 χ^2 /NDF: 1802542.6/30

Out: 1147.144 $\pm$ 0.183 χ^2 /NDF: 2137856.1/35

All: 1160.287 $\pm$ 0.133 χ^2 /NDF: 3951287.7/66

dit_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -63.781 ± 56.734 $\chi^2/\text{NDF}: 10.8/15$

Left Out: -3.741 ± 44.139 $\chi^2/\text{NDF}: 14.7/16$

Right Out: 54.305 ± 54.743 $\chi^2/\text{NDF}: 19.5/18$

Left In: 85.059 ± 45.991 $\chi^2/\text{NDF}: 14.2/14$

Left: 38.835 ± 31.845 $\chi^2/\text{NDF}: 30.9/31$

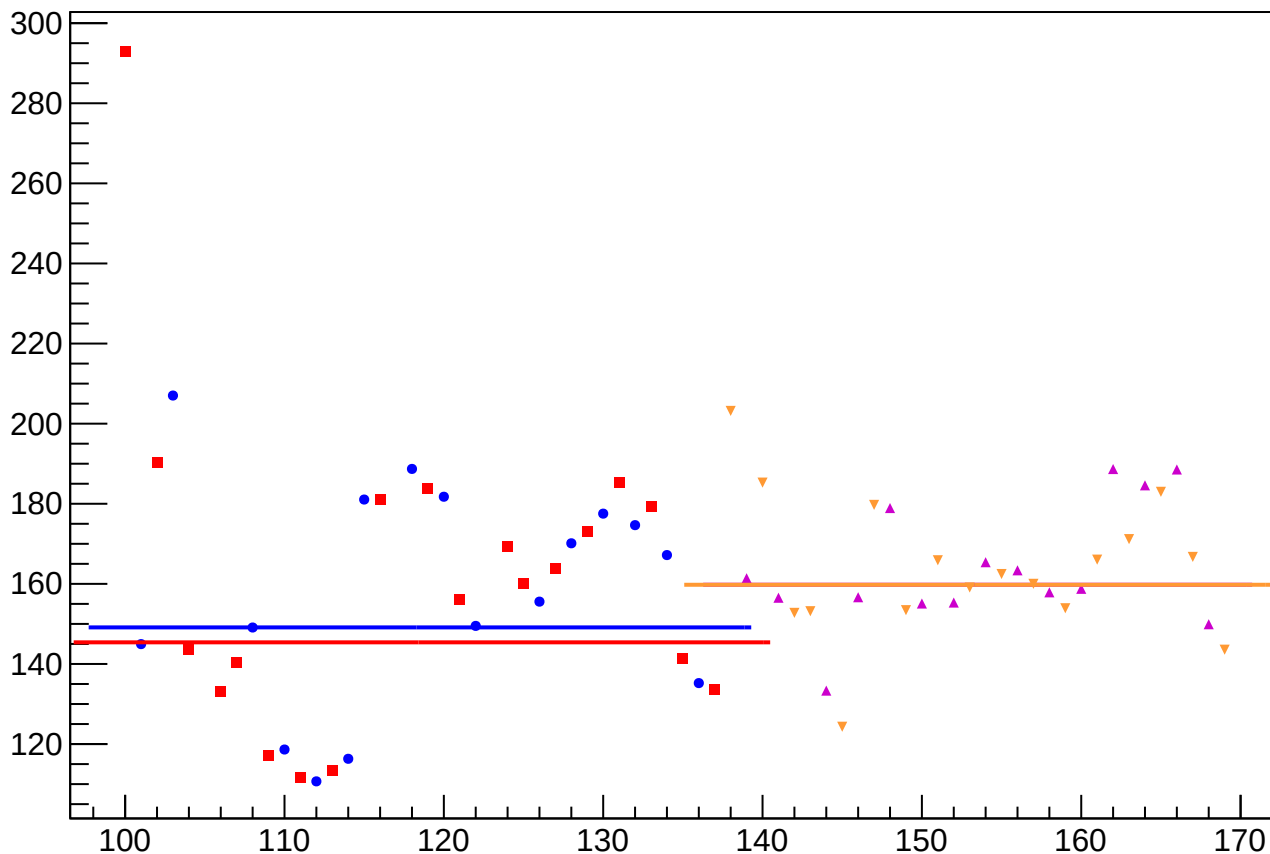
Right: -2.630 ± 39.394 $\chi^2/\text{NDF}: 32.6/34$

In: 26.036 ± 35.727 $\chi^2/\text{NDF}: 29.2/30$

Out: 19.128 ± 34.361 $\chi^2/\text{NDF}: 34.9/35$

All: 22.447 ± 24.766 $\chi^2/\text{NDF}: 64.2/66$

dit_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 149.130 ± 0.040 χ^2/NDF : 451003.6/15

Left Out: 159.774 ± 0.031 χ^2/NDF : 314420.2/16

Right Out: 145.399 ± 0.039 χ^2/NDF : 525820.0/18

Left In: 159.779 ± 0.033 χ^2/NDF : 184087.1/14

Left: 159.777 ± 0.023 χ^2/NDF : 498507.3/31

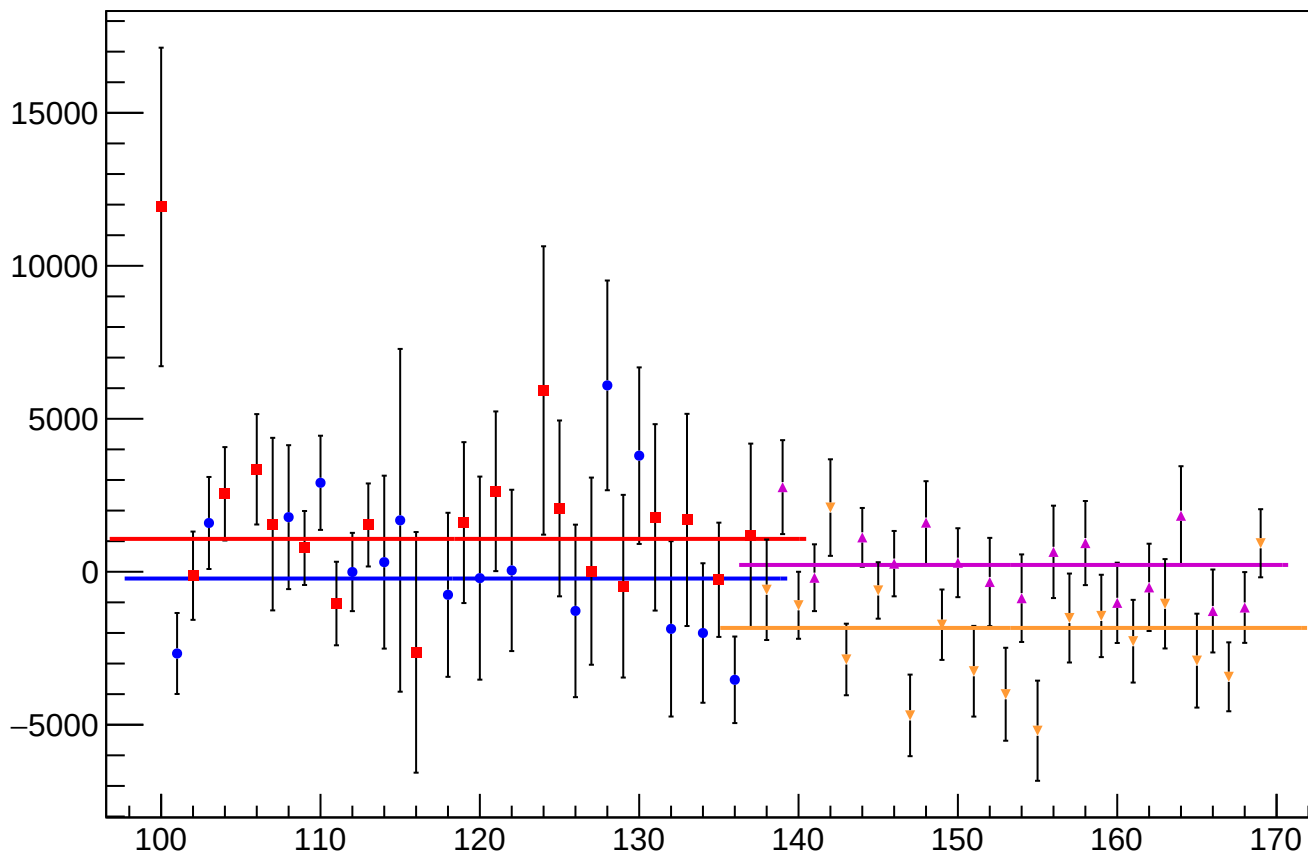
Right: 147.198 ± 0.028 χ^2/NDF : 981303.1/34

In: 155.556 ± 0.025 χ^2/NDF : 677608.3/30

Out: 154.111 ± 0.024 χ^2/NDF : 923817.8/35

All: 154.805 ± 0.018 χ^2/NDF : 1603126.5/66

asym_sam_48_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -221.240 $\pm$ 506.202 χ^2 /NDF: 21.9/15

Left Out: -1835.765 $\pm$ 313.845 χ^2 /NDF:30.8/16

Right Out: 1074.433 $\pm$ 472.816 χ^2 /NDF: 13.6/18

Left In: 222.992 $\pm$ 328.998 χ^2 /NDF:10.7/14

Left: -854.887 $\pm$ 227.090 χ^2 /NDF: 62.0/31

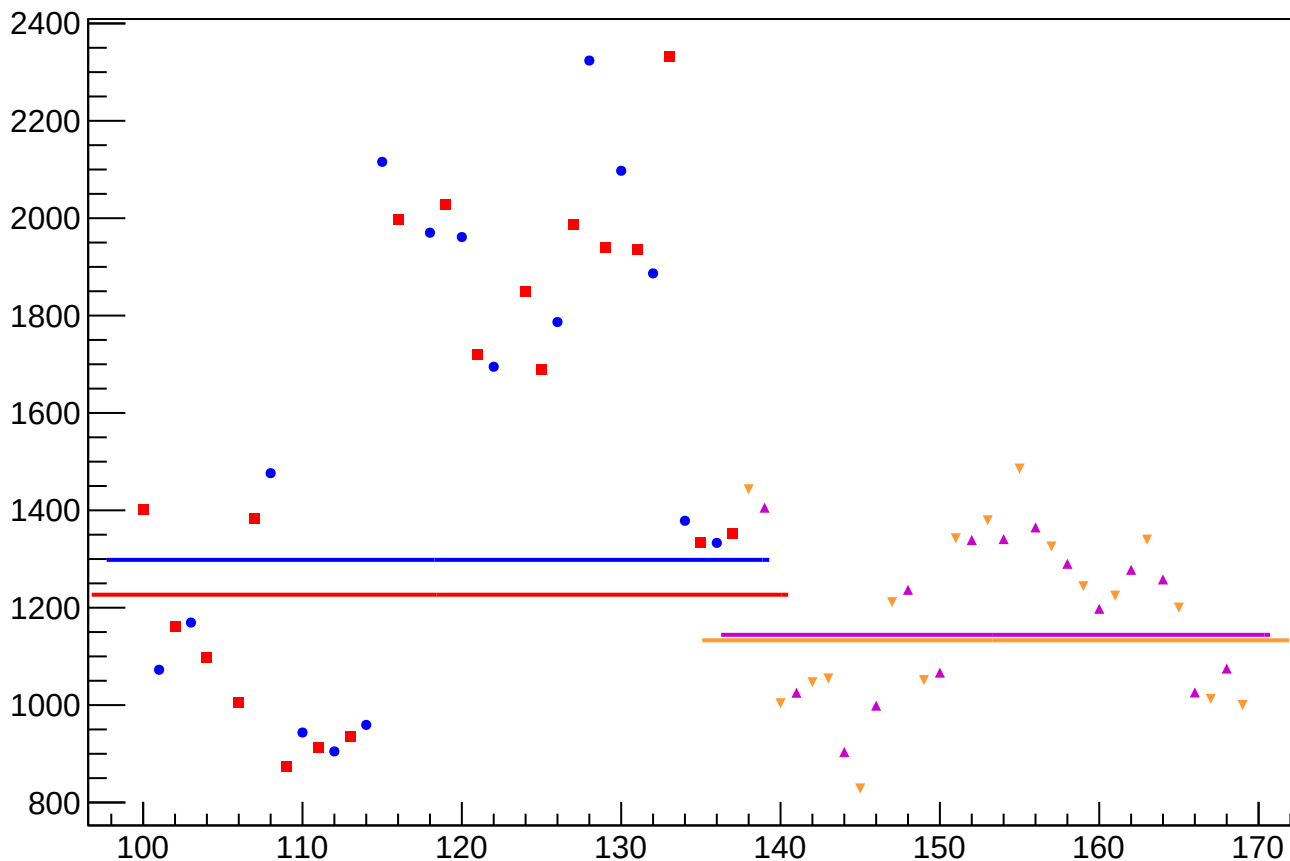
Right: 470.729 $\pm$ 345.532 χ^2 /NDF: 39.0/34

In: 91.068 $\pm$ 275.854 χ^2 /NDF:33.1/30

Out: -945.694 $\pm$ 261.483 χ^2 /NDF:70.7/35

All: -455.022 $\pm$ 189.774 χ^2 /NDF: 111.2/66

asym_sam_48_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1298.293+/-0.358 χ^2/NDF : 1182123.0/15

Left Out: 1133.073+/-0.222 χ^2/NDF : 687287.1/16

Right Out: 1226.729+/-0.334 χ^2/NDF : 1404521.7/18

Left In: 1144.357+/-0.233 χ^2/NDF : 455541.8/14

Left: 1138.449+/-0.161 χ^2/NDF : 1144060.7/31

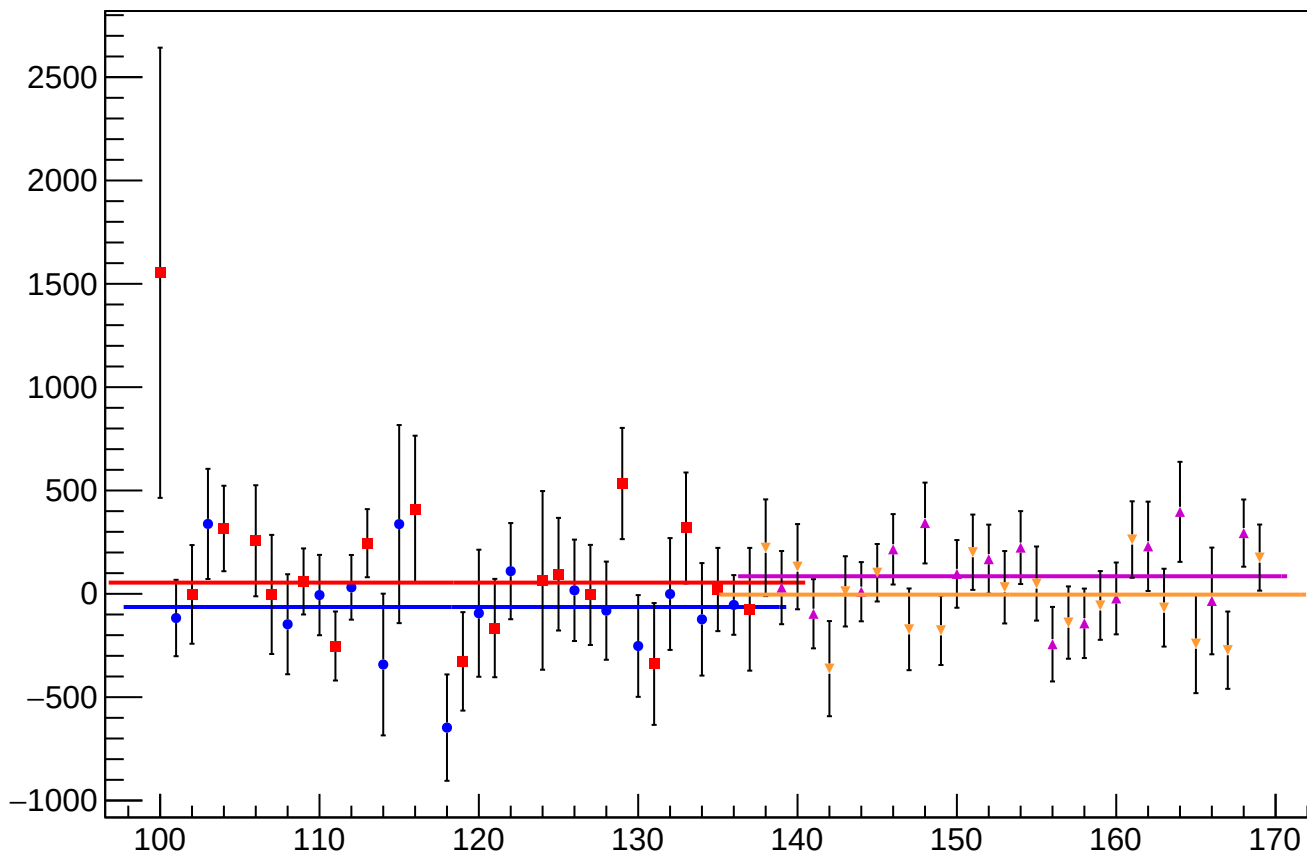
Right: 1260.073+/-0.244 χ^2/NDF : 2607993.3/34

In: 1190.072+/-0.195 χ^2/NDF : 1767692.3/30

Out: 1161.717+/-0.185 χ^2/NDF : 2146279.9/35

All: 1175.137+/-0.134 χ^2/NDF : 3925102.4/66

eigen_dit_asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: -63.778 ± 56.734 χ^2/NDF : 10.8/15

Left Out: -3.738 ± 44.139 χ^2/NDF : 14.7/16

Right Out: 54.304 ± 54.743 χ^2/NDF : 19.5/18

Left In: 85.059 ± 45.991 χ^2/NDF : 14.2/14

Left: 38.836 ± 31.846 χ^2/NDF : 30.9/31

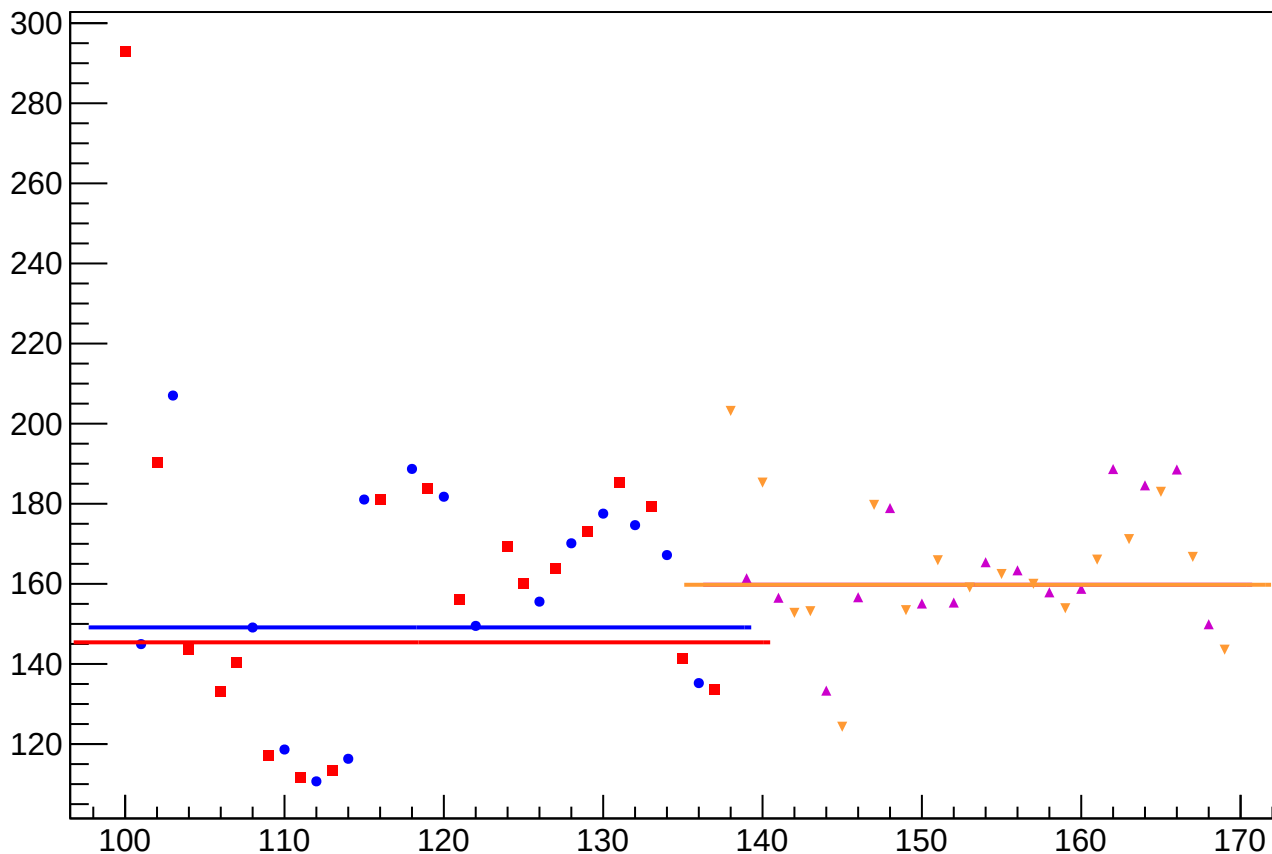
Right: -2.629 ± 39.394 χ^2/NDF : 32.6/34

In: 26.037 ± 35.727 χ^2/NDF : 29.2/30

Out: 19.129 ± 34.361 χ^2/NDF : 34.9/35

All: 22.449 ± 24.766 χ^2/NDF : 64.2/66

eigen_dit_asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 149.130+/-0.040 χ^2/NDF : 451005.1/15

Left Out: 159.775+/-0.031 χ^2/NDF : 314415.3/16

Right Out: 145.399+/-0.039 χ^2/NDF : 525822.2/18

Left In: 159.779+/-0.033 χ^2/NDF : 184086.0/14

Left: 159.777+/-0.023 χ^2/NDF : 498501.4/31

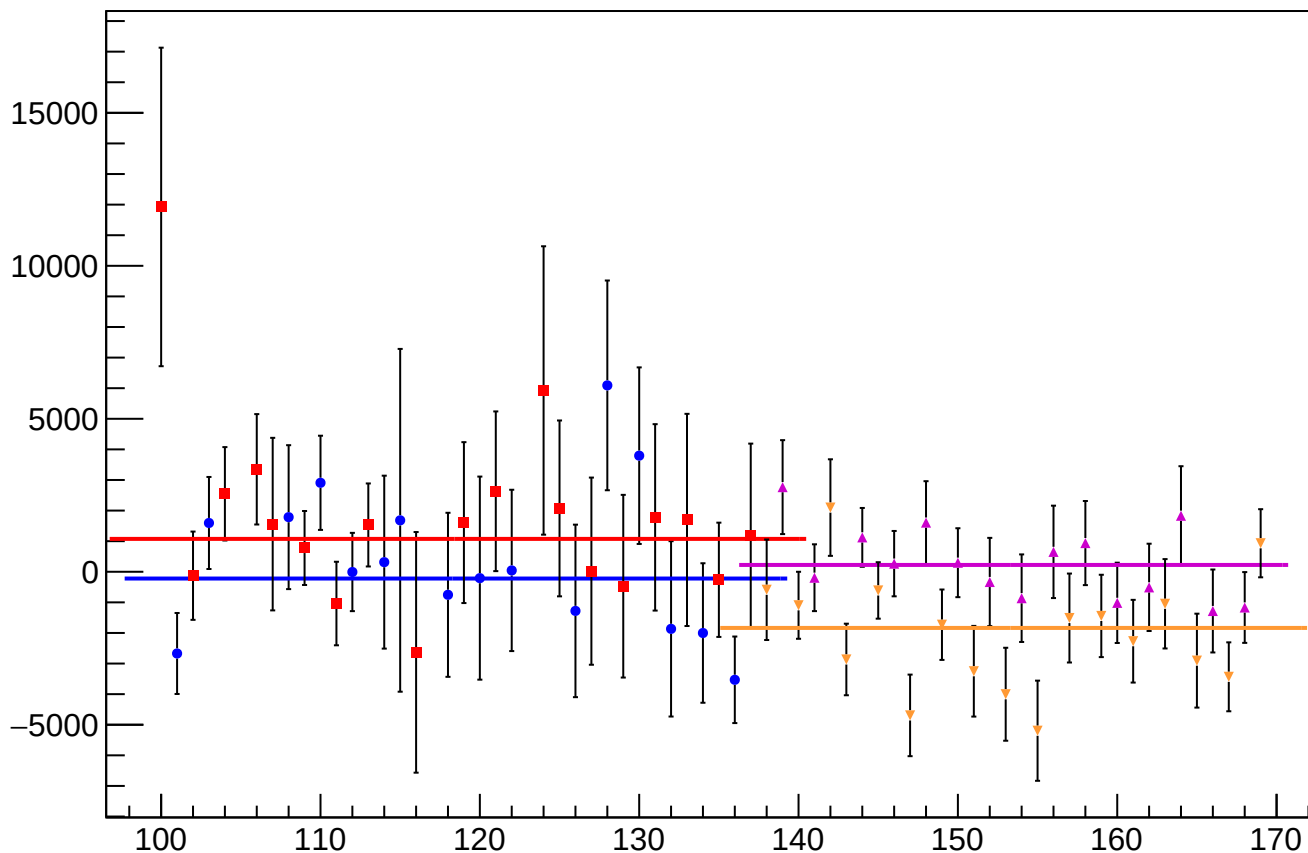
Right: 147.198+/-0.028 χ^2/NDF : 981307.0/34

In: 155.556+/-0.025 χ^2/NDF : 677611.0/30

Out: 154.111+/-0.024 χ^2/NDF : 923819.6/35

All: 154.805+/-0.018 χ^2/NDF : 1603130.9/66

asym_sam_48_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -221.239 $\pm$ 506.201 χ^2 /NDF: 21.9/15

Left Out: -1835.760 $\pm$ 313.845 χ^2 /NDF:30.8/16

Right Out: 1074.432 $\pm$ 472.816 χ^2 /NDF: 13.6/18

Left In: 222.991 $\pm$ 328.997 χ^2 /NDF:10.7/14

Left: -854.886 $\pm$ 227.090 χ^2 /NDF: 62.0/31

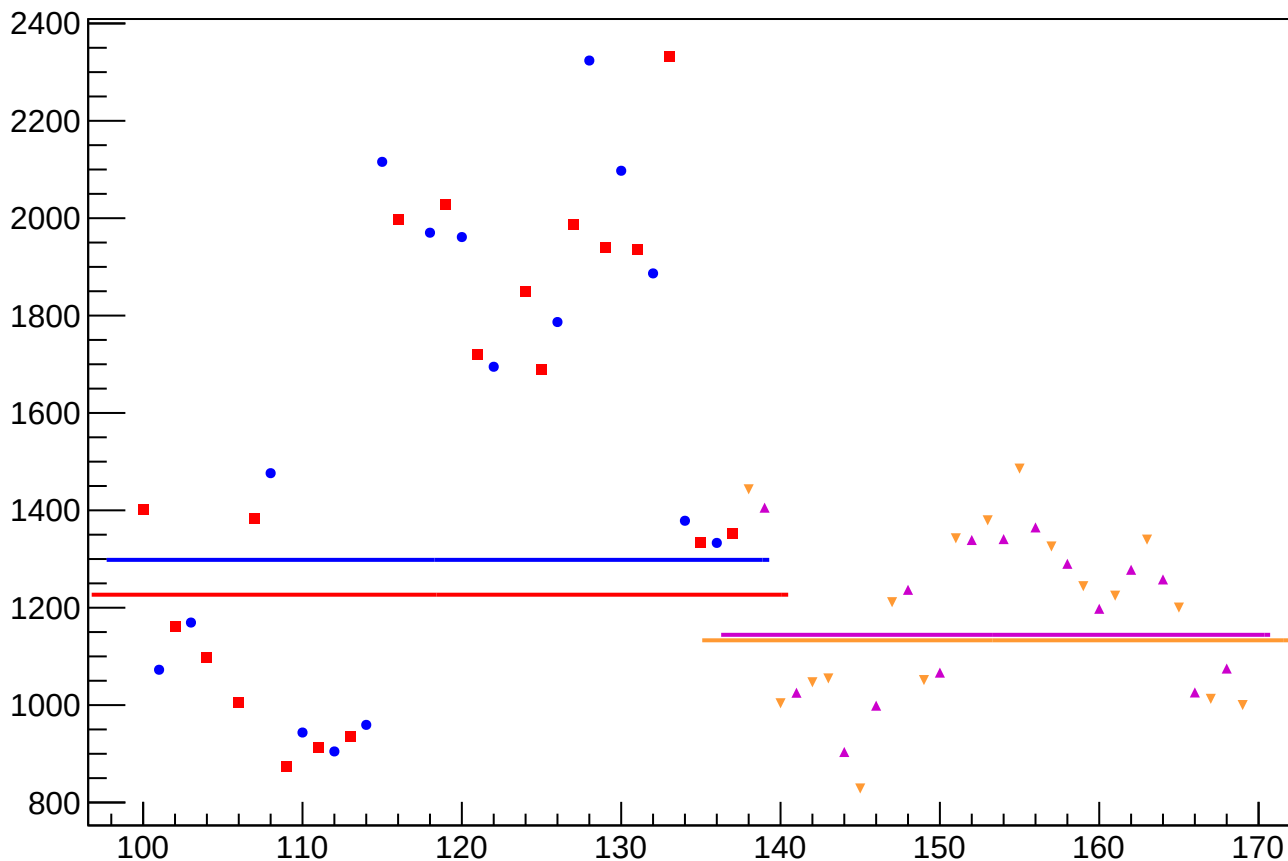
Right: 470.728 $\pm$ 345.531 χ^2 /NDF: 39.0/34

In: 91.068 $\pm$ 275.854 χ^2 /NDF:33.1/30

Out: -945.692 $\pm$ 261.483 χ^2 /NDF:70.7/35

All: -455.021 $\pm$ 189.773 χ^2 /NDF: 111.2/66

asym_sam_48_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1298.292 $\pm$ 0.358 χ^2 /NDF: 1182127.2/15

Left Out: 1133.071 $\pm$ 0.222 χ^2 /NDF: 687292.4/16

Right Out: 1226.727 $\pm$ 0.334 χ^2 /NDF: 1404524.7/18

Left In: 1144.356 $\pm$ 0.233 χ^2 /NDF: 455541.8/14

Left: 1138.448 $\pm$ 0.161 χ^2 /NDF: 1144066.2/31

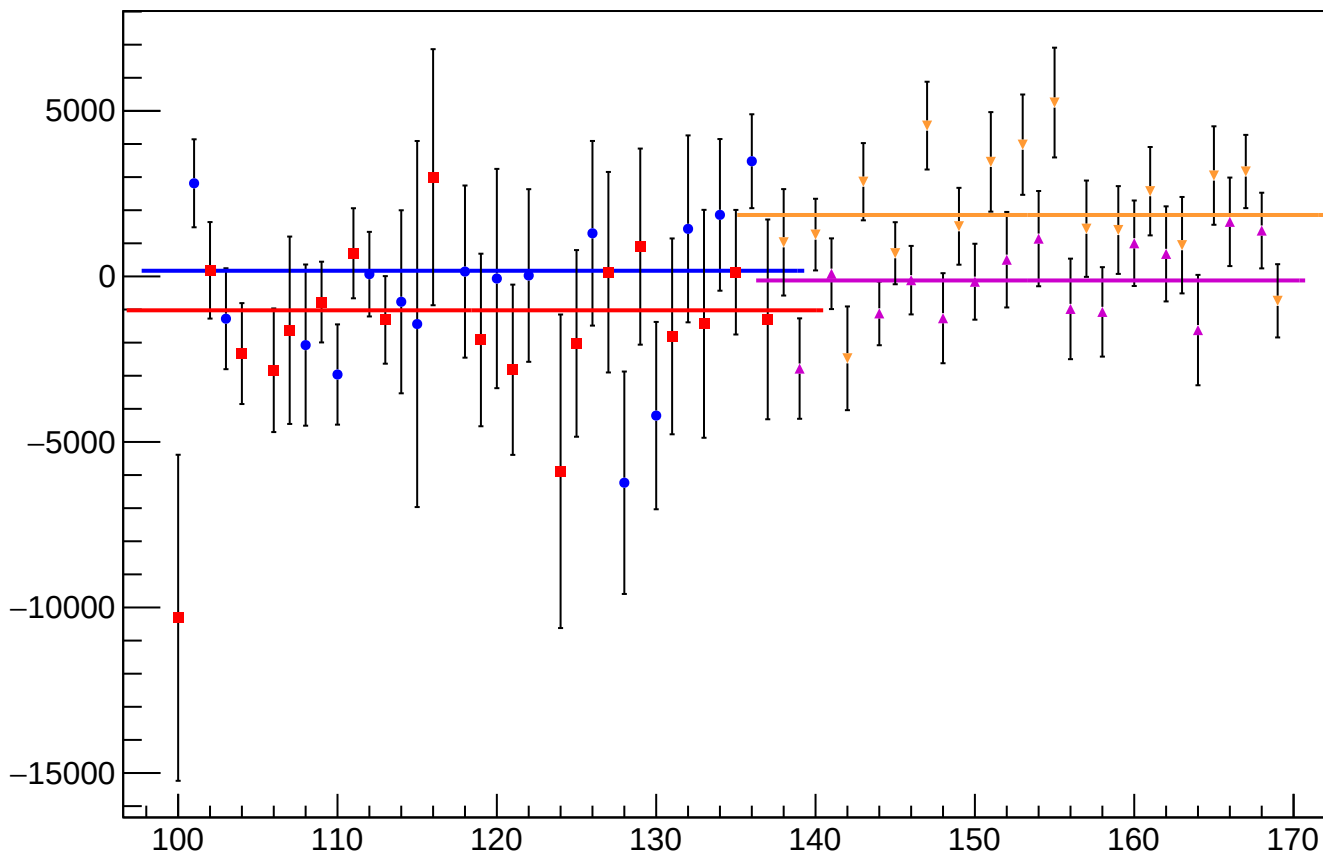
Right: 1260.072 $\pm$ 0.244 χ^2 /NDF: 2608000.5/34

In: 1190.070 $\pm$ 0.195 χ^2 /NDF: 1767697.1/30

Out: 1161.715 $\pm$ 0.185 χ^2 /NDF: 2146289.0/35

All: 1175.135 $\pm$ 0.134 χ^2 /NDF: 3925116.5/60

asym_sam_48_avg_mean vs Slug, Sign Corrected



Right In: 171.056+/-505.136 χ^2/NDF : 22.6/15

Left Out: 1855.874+/-312.579 χ^2/NDF :30.4/16

Right Out: -1023.699+/-472.008 χ^2/NDF : 11.6/18

Left In: -121.843+/-327.212 χ^2/NDF :12.0/14

Left: 912.224+/-226.023 χ^2/NDF : 61.5/31

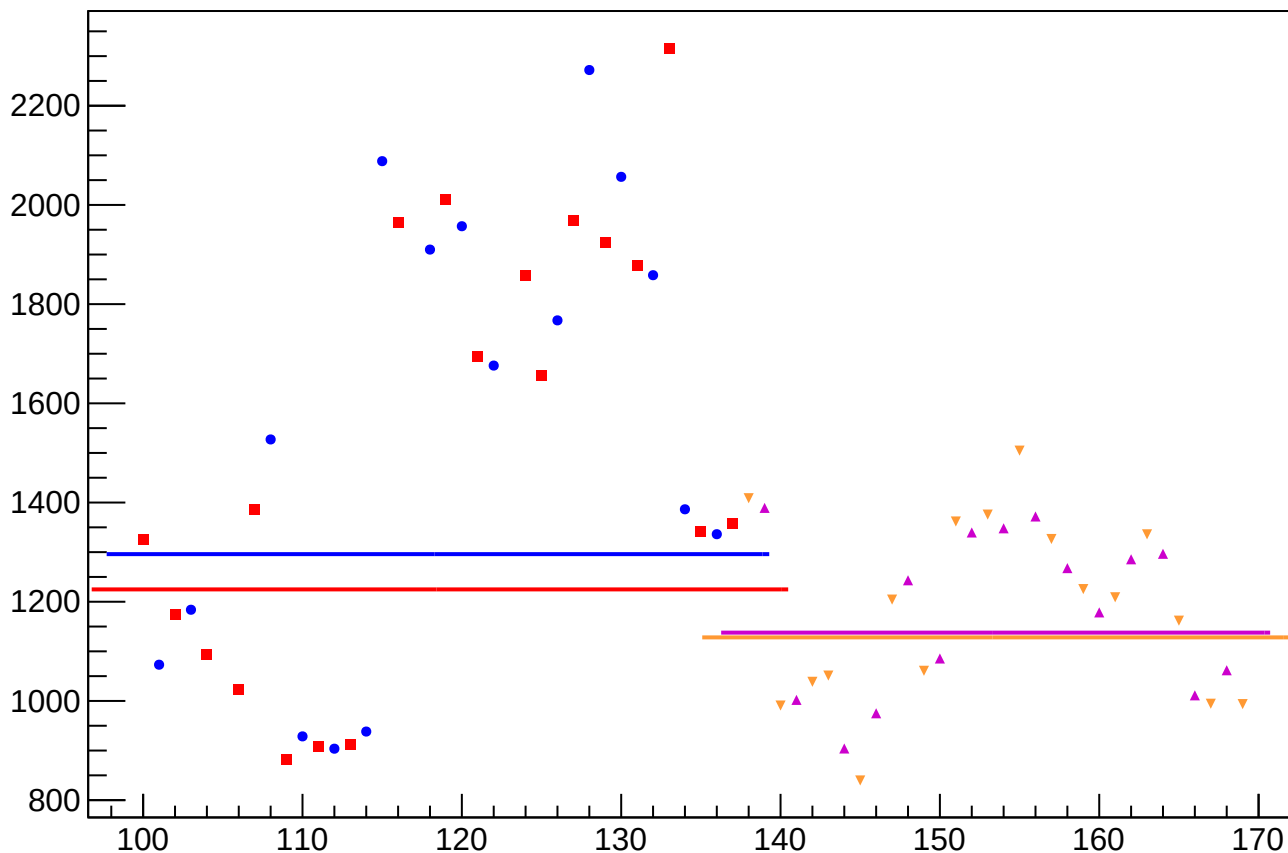
Right: -466.780+/-344.877 χ^2/NDF : 37.1/34

In: -35.268+/-274.628 χ^2/NDF :34.8/30

Out: 978.019+/-260.614 χ^2/NDF :67.8/35

All: 497.889+/-189.042 χ^2/NDF : 109.9/66

asym_sam_48_avg_rms vs Slug, Sign Corrected



Right In: 1295.987 $\pm$ 0.357 χ^2 /NDF: 1154185.9/15

Left Out: 1128.116 $\pm$ 0.221 χ^2 /NDF: 671926.1/16

Right Out: 1224.872 $\pm$ 0.334 χ^2 /NDF: 1371285.2/18

Left In: 1137.738 $\pm$ 0.231 χ^2 /NDF: 486611.1/14

Left: 1132.707 $\pm$ 0.160 χ^2 /NDF: 1159441.6/31

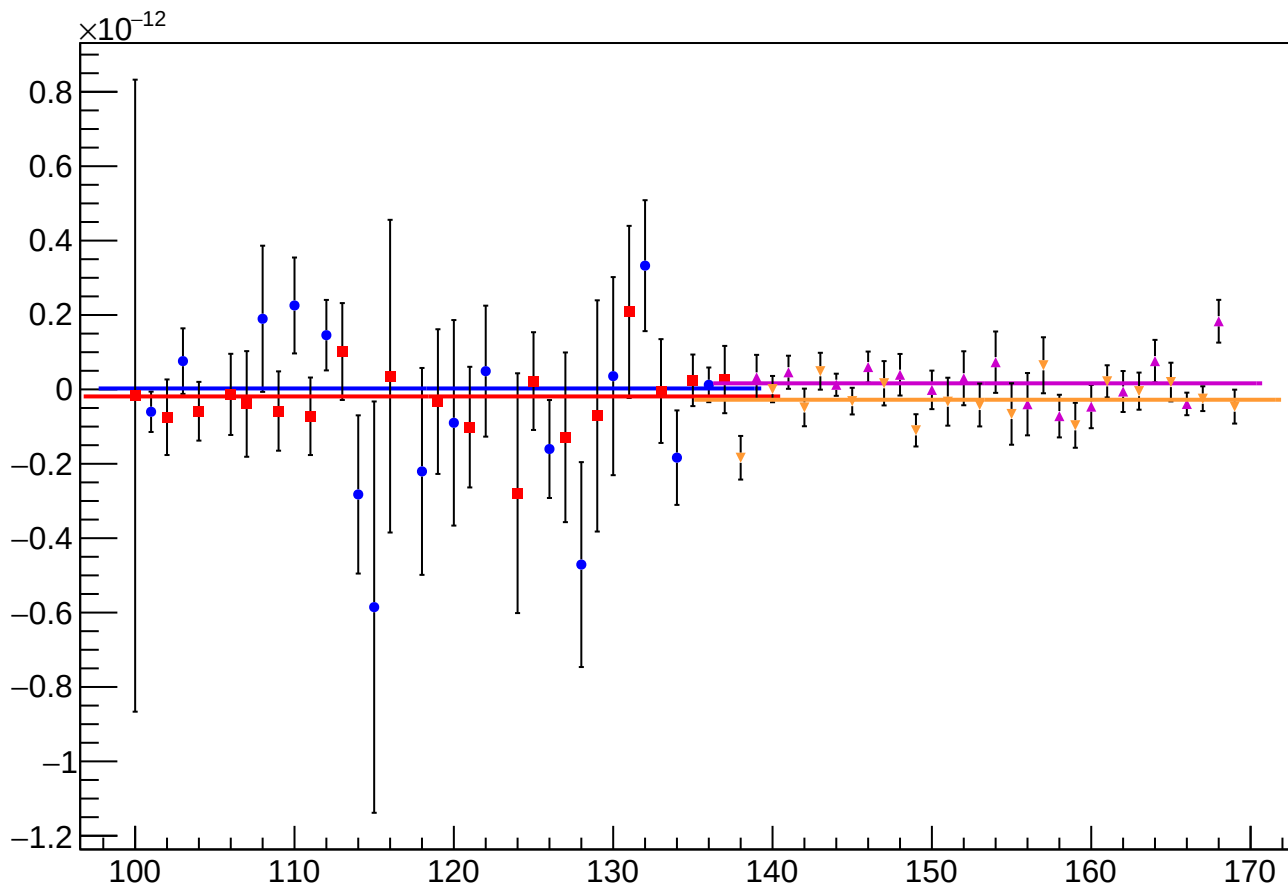
Right: 1258.021 $\pm$ 0.244 χ^2 /NDF: 2546633.6/34

In: 1184.513 $\pm$ 0.194 χ^2 /NDF: 1779066.2/30

Out: 1157.612 $\pm$ 0.184 χ^2 /NDF: 2101631.7/35

All: 1170.359 $\pm$ 0.134 χ^2 /NDF: 3890795.1/60

asym_sam_48_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22.2/15

Left Out: -0.000+/-0.000 χ^2/NDF : 20.1/16

Right Out: -0.000+/-0.000 χ^2/NDF : 4.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 19.4/14

Left: -0.000+/-0.000 χ^2/NDF : 46.1/31

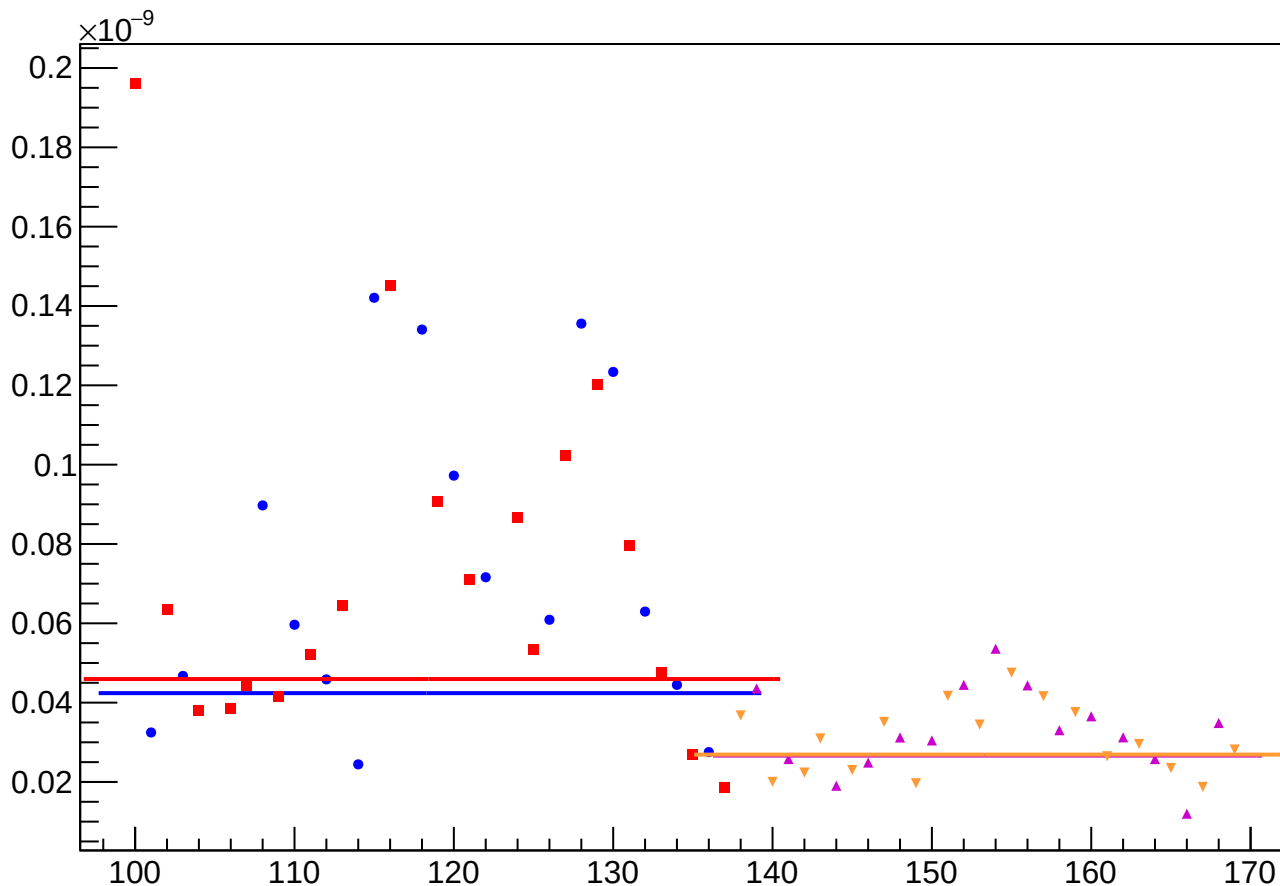
Right: -0.000+/-0.000 χ^2/NDF : 27.2/34

In: 0.000+/-0.000 χ^2/NDF : 41.8/30

Out: -0.000+/-0.000 χ^2/NDF : 24.9/35

All: -0.000+/-0.000 χ^2/NDF : 73.3/66

asym_sam_48_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1341259.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 819541.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1118551.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 1344685.5/14

Left: 0.000+/-0.000 χ^2/NDF : 2164647.2/31

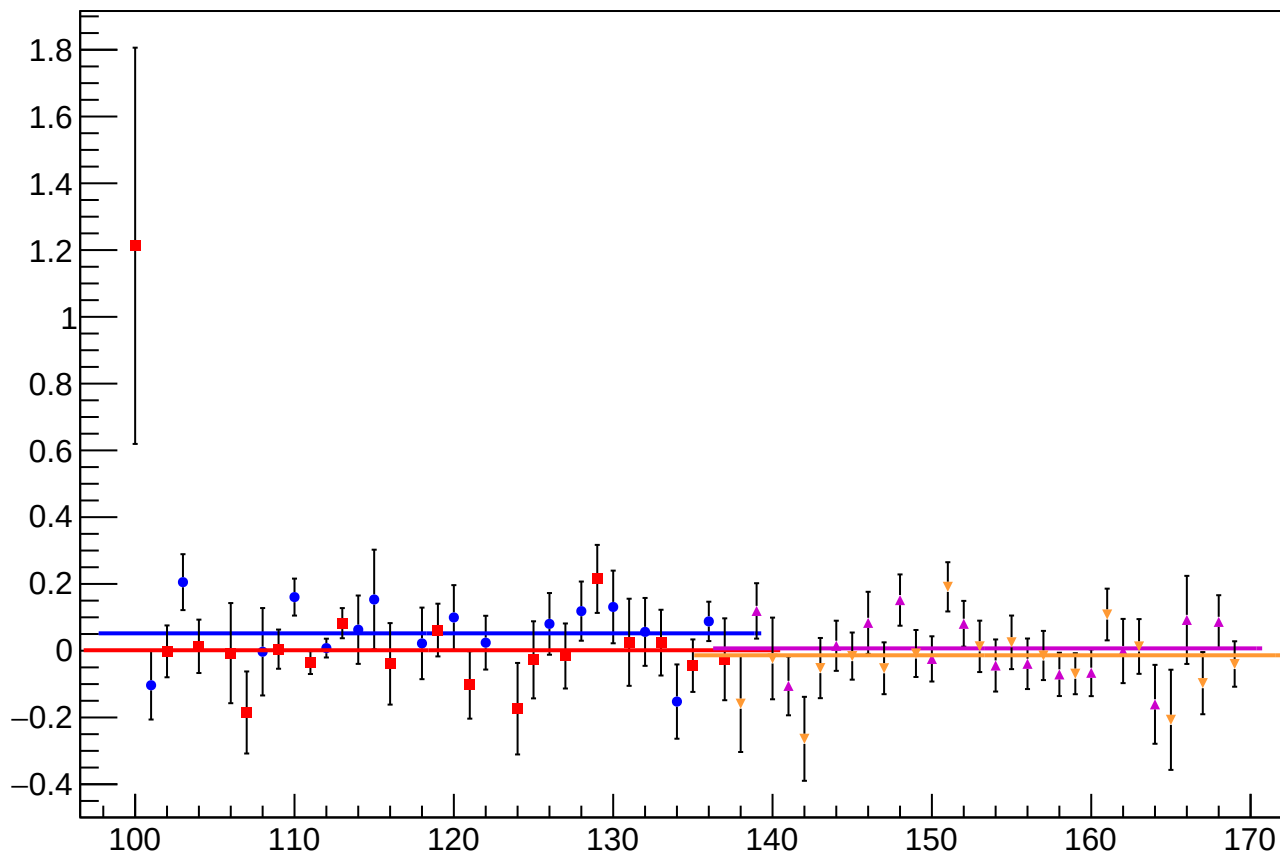
Right: 0.000+/-0.000 χ^2/NDF : 2476096.3/34

In: 0.000+/-0.000 χ^2/NDF : 3250237.4/30

Out: 0.000+/-0.000 χ^2/NDF : 2686020.9/35

All: 0.000+/-0.000 χ^2/NDF : 5936314.3/66

asym_sam_48_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.018 χ^2 /NDF: 18.0/15

Left Out: -0.014 $\pm$ 0.020 χ^2 /NDF:19.5/16

Right Out: 0.001 $\pm$ 0.018 χ^2 /NDF: 19.2/18

Left In: 0.007 $\pm$ 0.021 χ^2 /NDF:15.8/14

Left: -0.004 $\pm$ 0.014 χ^2 /NDF: 35.8/31

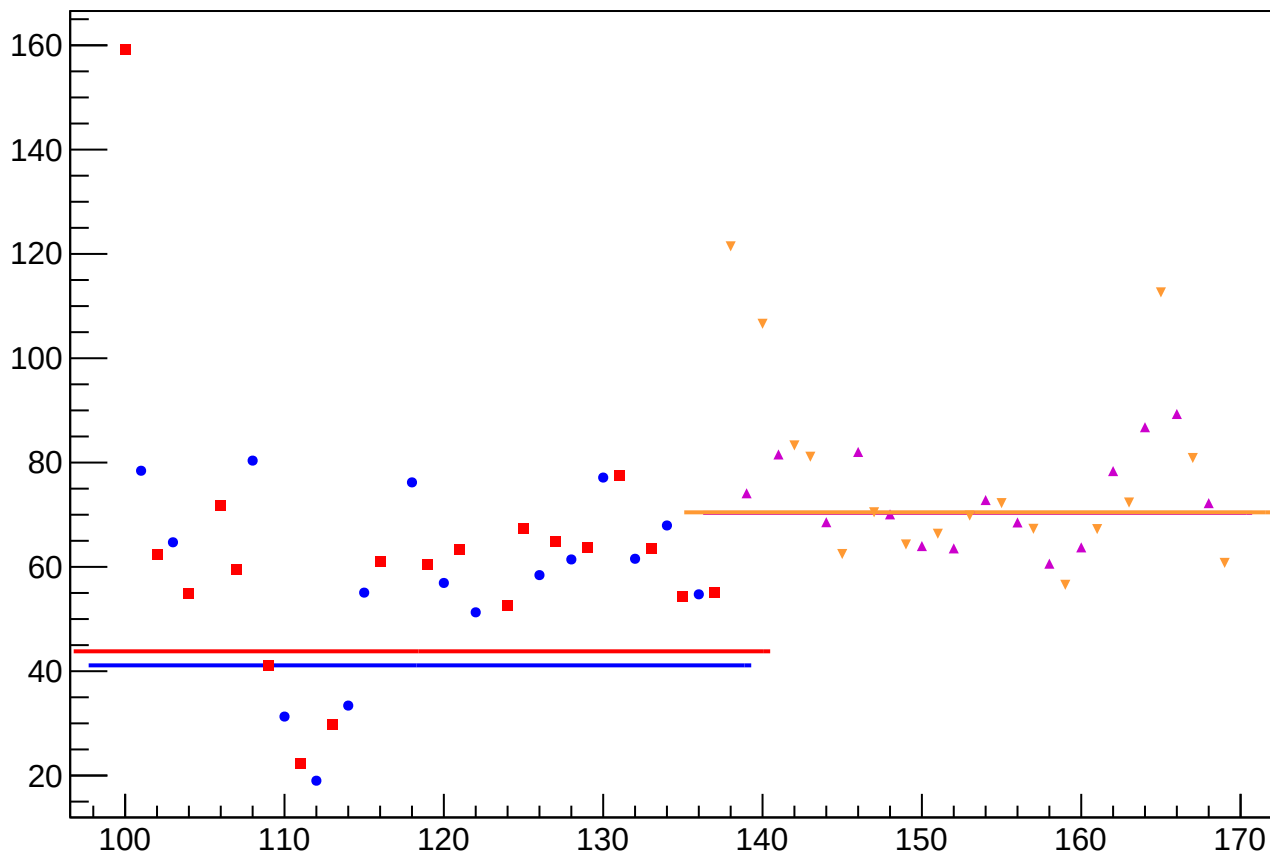
Right: 0.027 $\pm$ 0.013 χ^2 /NDF: 41.2/34

In: 0.033 $\pm$ 0.013 χ^2 /NDF:36.5/30

Out: -0.005 $\pm$ 0.013 χ^2 /NDF:39.1/35

All: 0.014 $\pm$ 0.009 χ^2 /NDF: 79.6/66

asym_sam_48_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.120 $\pm$ 0.013 χ^2 /NDF: 2925302.3/15

Left Out: 70.459 $\pm$ 0.014 χ^2 /NDF: 854224.5/16

Right Out: 43.813 $\pm$ 0.013 χ^2 /NDF: 2048452.0/18

Left In: 70.348 $\pm$ 0.015 χ^2 /NDF: 267457.8/14

Left: 70.405 $\pm$ 0.010 χ^2 /NDF: 1121712.0/31

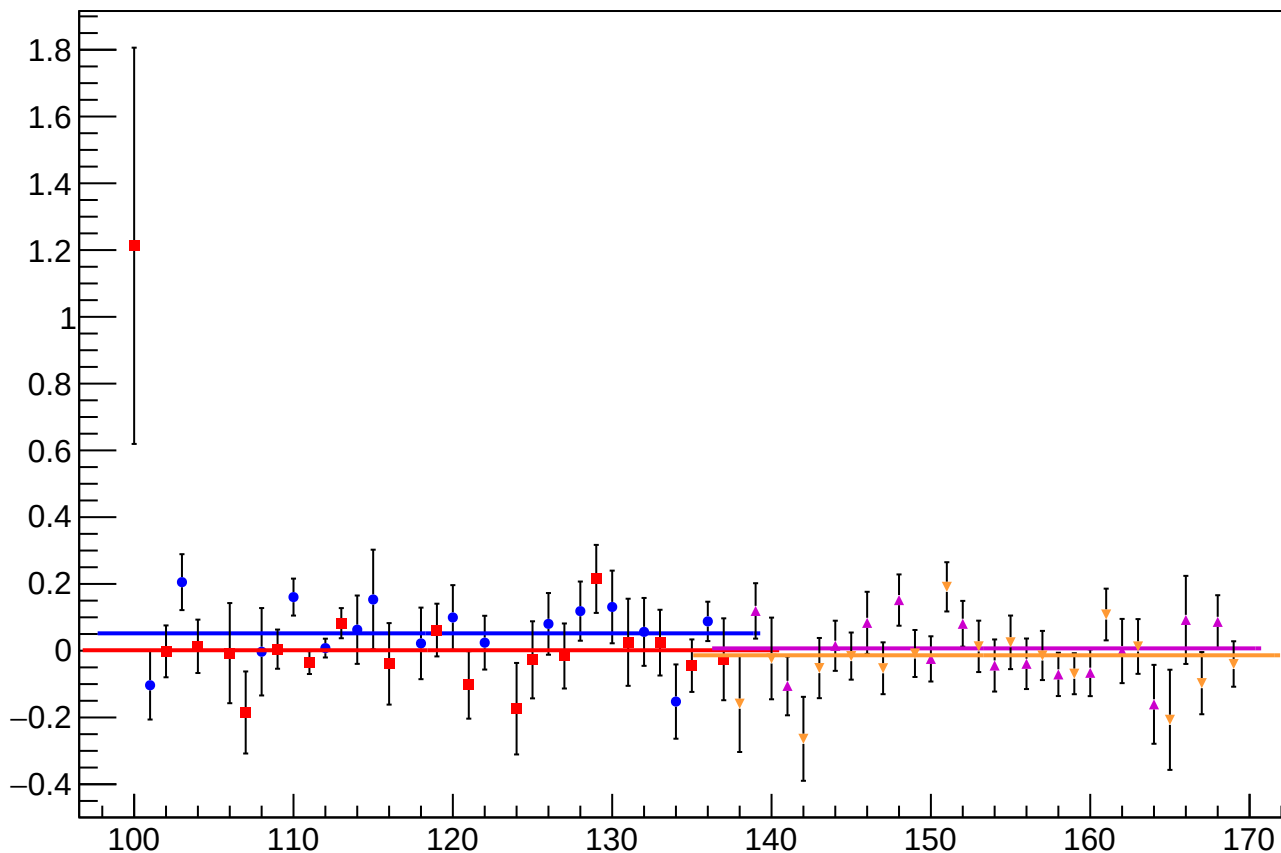
Right: 42.455 $\pm$ 0.009 χ^2 /NDF: 4996519.9/34

In: 53.547 $\pm$ 0.010 χ^2 /NDF: 5492631.6/30

Out: 55.731 $\pm$ 0.009 χ^2 /NDF: 4878711.4/35

All: 54.651 $\pm$ 0.007 χ^2 /NDF: 10397905.7/66

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 ± 0.018 $\chi^2/\text{NDF}: 18.0/15$

Left Out: -0.014 ± 0.020 $\chi^2/\text{NDF}: 19.5/16$

Right Out: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.2/18$

Left In: 0.007 ± 0.021 $\chi^2/\text{NDF}: 15.8/14$

Left: -0.004 ± 0.014 $\chi^2/\text{NDF}: 35.8/31$

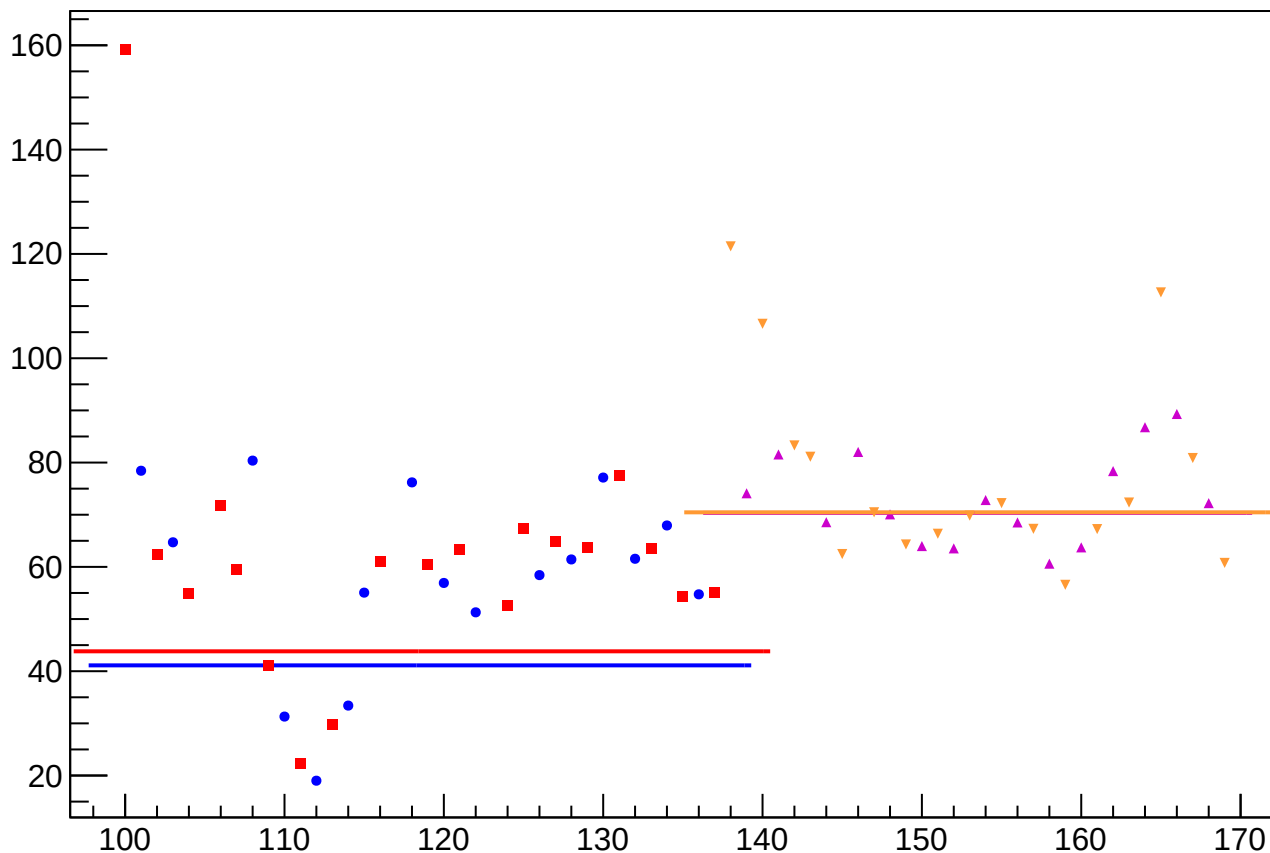
Right: 0.027 ± 0.013 $\chi^2/\text{NDF}: 41.2/34$

In: 0.033 ± 0.013 $\chi^2/\text{NDF}: 36.5/30$

Out: -0.005 ± 0.013 $\chi^2/\text{NDF}: 39.1/35$

All: 0.014 ± 0.009 $\chi^2/\text{NDF}: 79.6/66$

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.120+/-0.013 χ^2/NDF : 2925302.3/15

Left Out: 70.459+/-0.014 χ^2/NDF : 854224.5/16

Right Out: 43.813+/-0.013 χ^2/NDF : 2048452.0/18

Left In: 70.348+/-0.015 χ^2/NDF : 267457.8/14

Left: 70.405+/-0.010 χ^2/NDF : 1121712.0/31

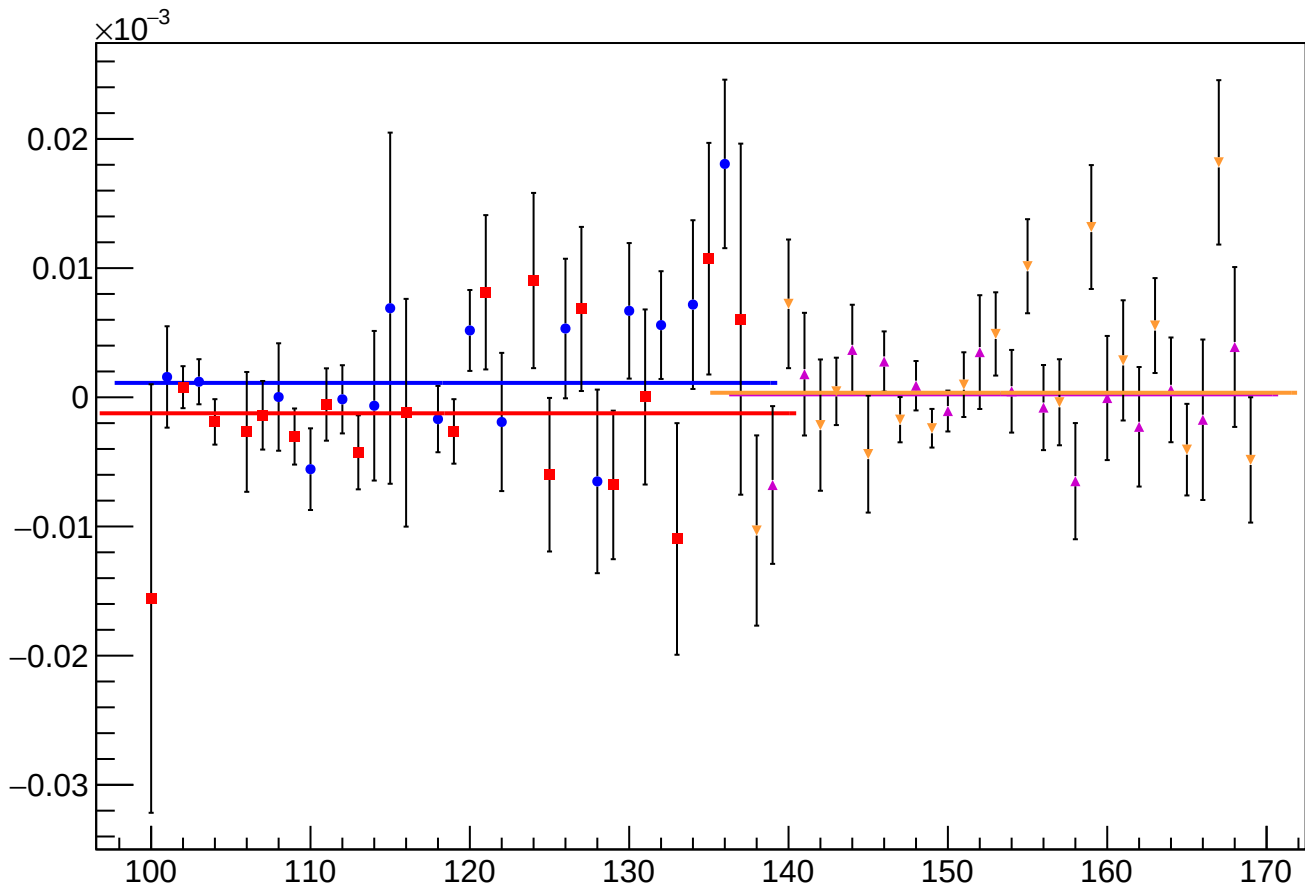
Right: 42.455+/-0.009 χ^2/NDF : 4996519.9/34

In: 53.547+/-0.010 χ^2/NDF : 5492631.6/30

Out: 55.731+/-0.009 χ^2/NDF : 4878711.4/35

All: 54.651+/-0.007 χ^2/NDF : 10397905.7/66

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 39.5/16

Right Out: -0.000+/-0.000 χ^2/NDF : 15.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 8.0/14

Left: 0.000+/-0.000 χ^2/NDF : 47.5/31

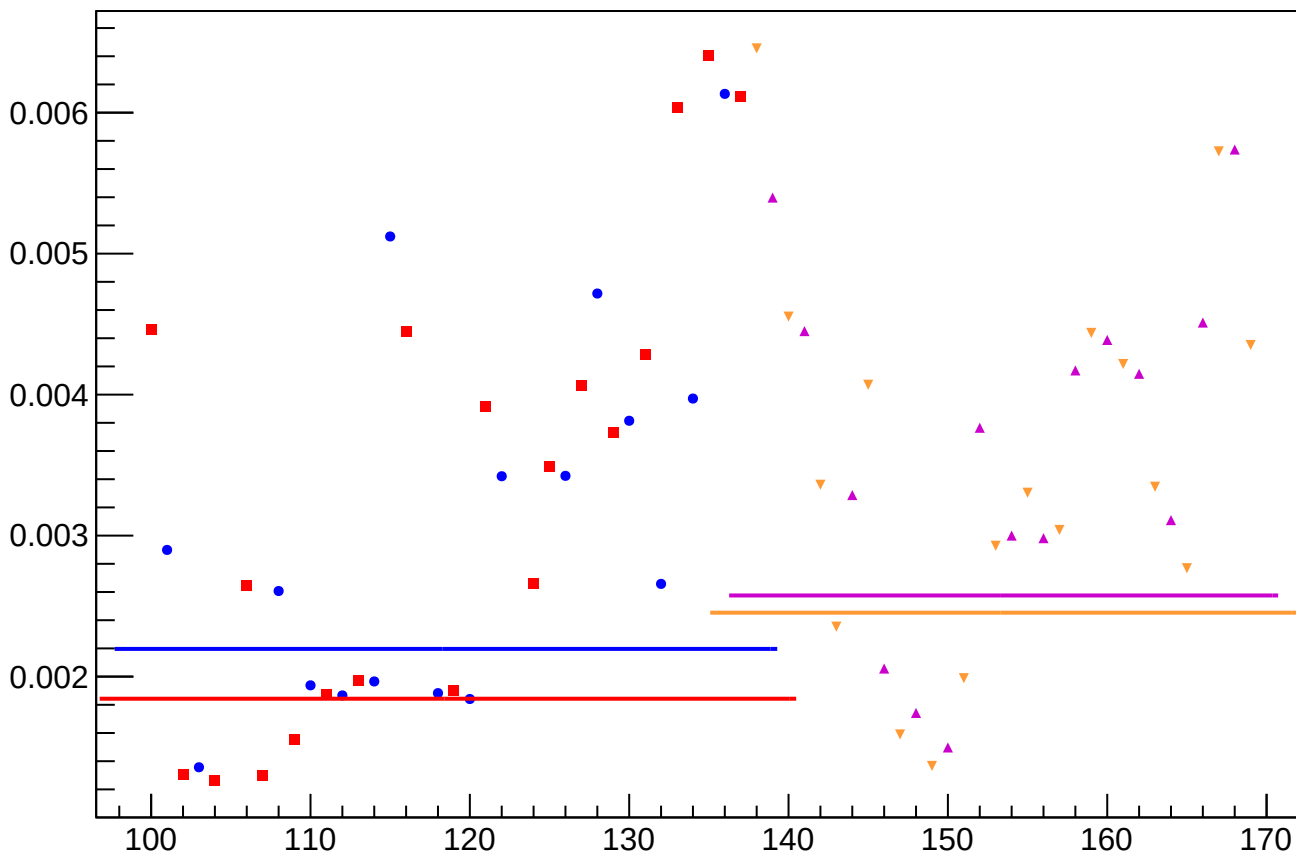
Right: -0.000+/-0.000 χ^2/NDF : 39.8/34

In: 0.000+/-0.000 χ^2/NDF : 28.5/30

Out: -0.000+/-0.000 χ^2/NDF : 57.6/35

All: 0.000+/-0.000 χ^2/NDF : 87.8/66

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2292909.6/15

Left Out: 0.002+/-0.000 χ^2/NDF : 4691630.6/16

Right Out: 0.002+/-0.000 χ^2/NDF : 3137598.0/18

Left In: 0.003+/-0.000 χ^2/NDF : 3959127.1/14

Left: 0.003+/-0.000 χ^2/NDF : 8675171.8/31

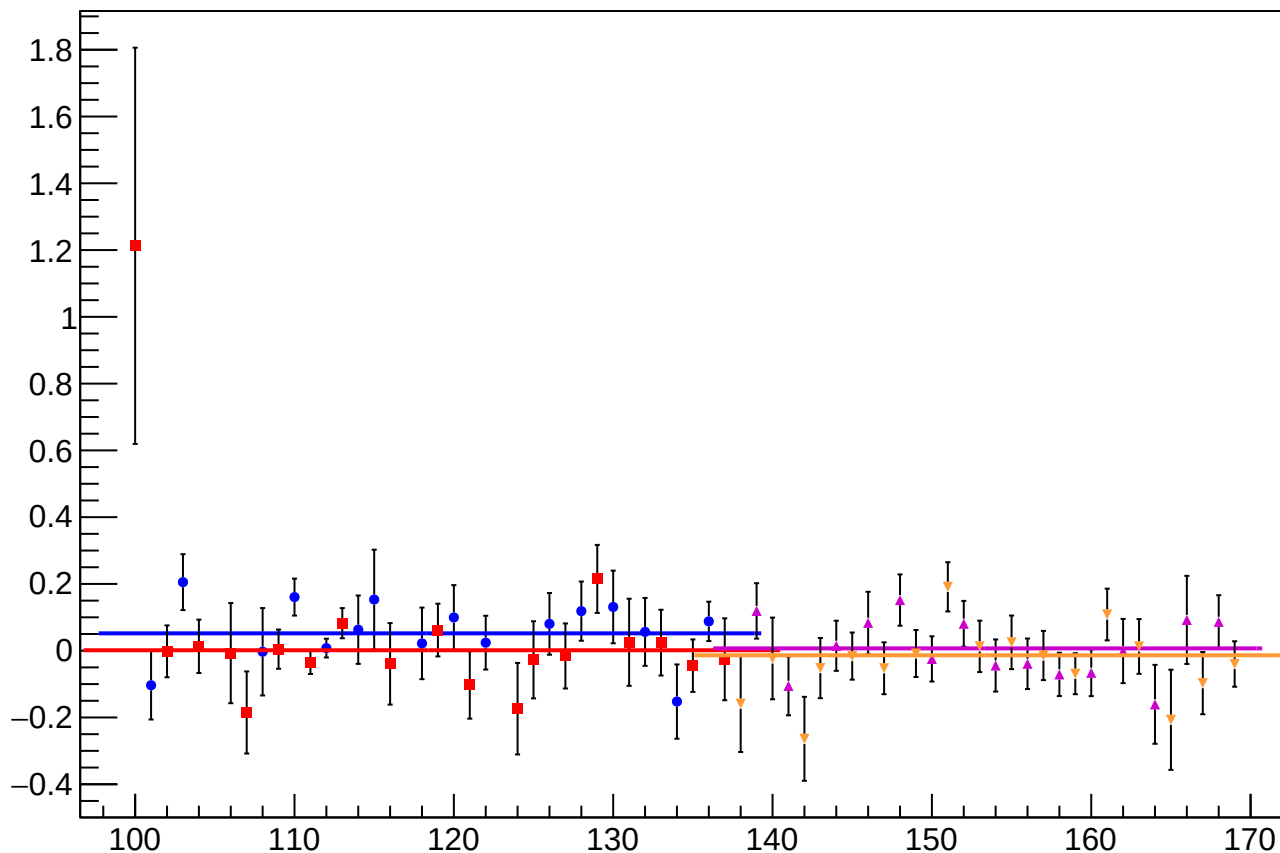
Right: 0.002+/-0.000 χ^2/NDF : 5607793.8/34

In: 0.002+/-0.000 χ^2/NDF : 6444943.2/30

Out: 0.002+/-0.000 χ^2/NDF : 8482447.2/35

All: 0.002+/-0.000 χ^2/NDF : 15119800.4/66

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 ± 0.018 $\chi^2/\text{NDF}: 18.0/15$

Left Out: -0.014 ± 0.020 $\chi^2/\text{NDF}: 19.5/16$

Right Out: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.2/18$

Left In: 0.007 ± 0.021 $\chi^2/\text{NDF}: 15.8/14$

Left: -0.004 ± 0.014 $\chi^2/\text{NDF}: 35.8/31$

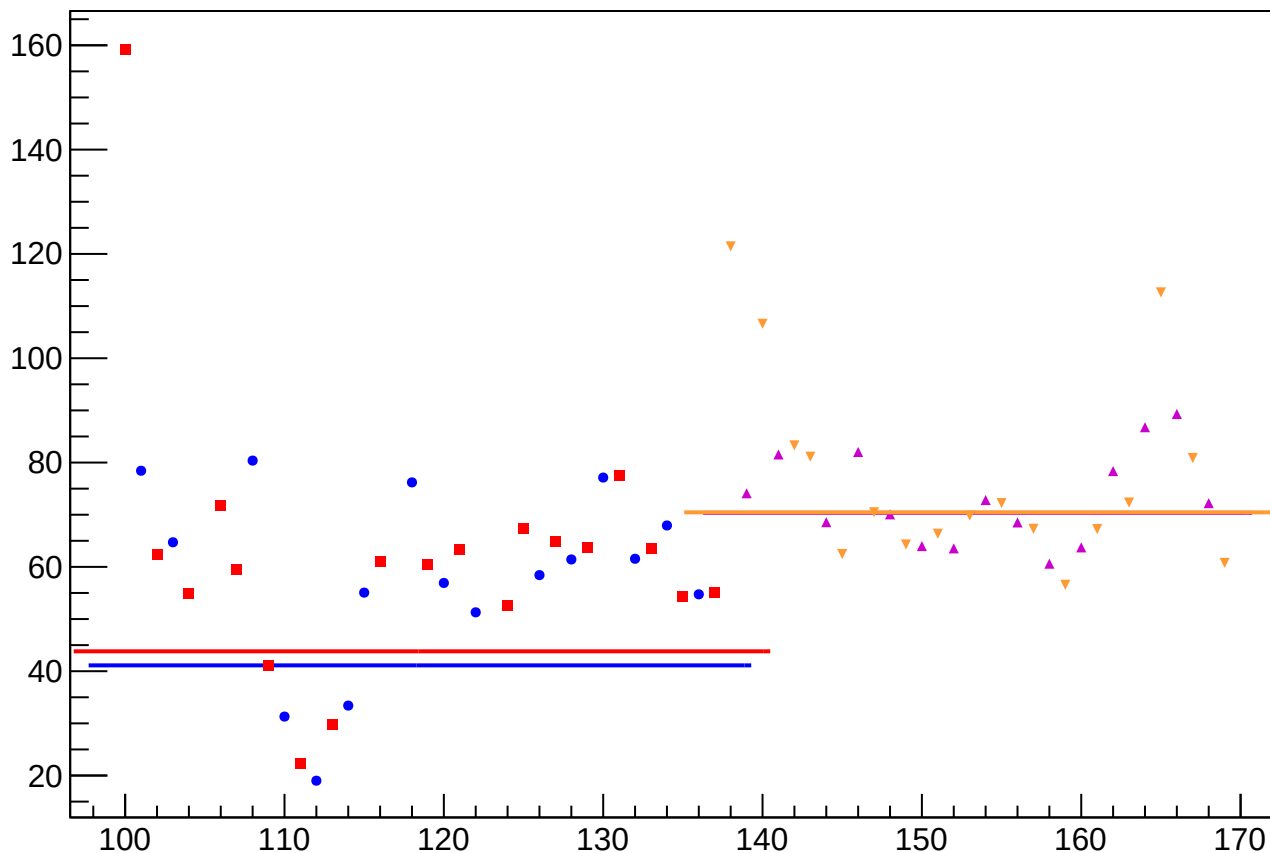
Right: 0.027 ± 0.013 $\chi^2/\text{NDF}: 41.2/34$

In: 0.033 ± 0.013 $\chi^2/\text{NDF}: 36.5/30$

Out: -0.005 ± 0.013 $\chi^2/\text{NDF}: 39.1/35$

All: 0.014 ± 0.009 $\chi^2/\text{NDF}: 79.6/66$

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.119 $\pm$ 0.013 χ^2 /NDF: 2925464.8/15

Left Out: 70.459 $\pm$ 0.014 χ^2 /NDF: 854205.6/16

Right Out: 43.813 $\pm$ 0.013 χ^2 /NDF: 2048627.9/18

Left In: 70.349 $\pm$ 0.015 χ^2 /NDF: 267452.8/14

Left: 70.406 $\pm$ 0.010 χ^2 /NDF: 1121688.2/31

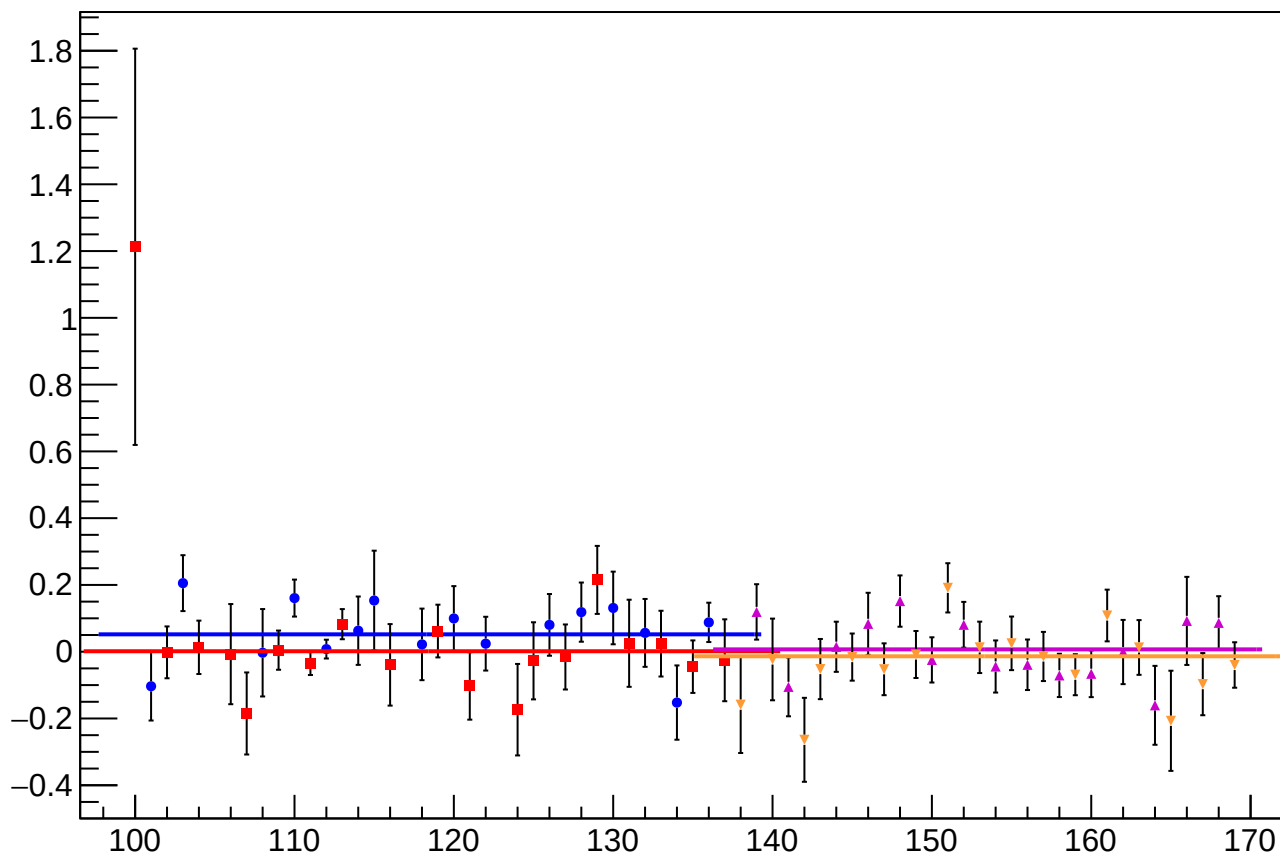
Right: 42.454 $\pm$ 0.009 χ^2 /NDF: 4996859.3/34

In: 53.546 $\pm$ 0.010 χ^2 /NDF: 5493038.3/30

Out: 55.730 $\pm$ 0.009 χ^2 /NDF: 4879098.4/35

All: 54.650 $\pm$ 0.007 χ^2 /NDF: 10398701.9/66

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.052 ± 0.018 $\chi^2/\text{NDF}: 18.0/15$

Left Out: -0.014 ± 0.020 $\chi^2/\text{NDF}: 19.5/16$

Right Out: 0.001 ± 0.018 $\chi^2/\text{NDF}: 19.2/18$

Left In: 0.007 ± 0.021 $\chi^2/\text{NDF}: 15.8/14$

Left: -0.004 ± 0.014 $\chi^2/\text{NDF}: 35.8/31$

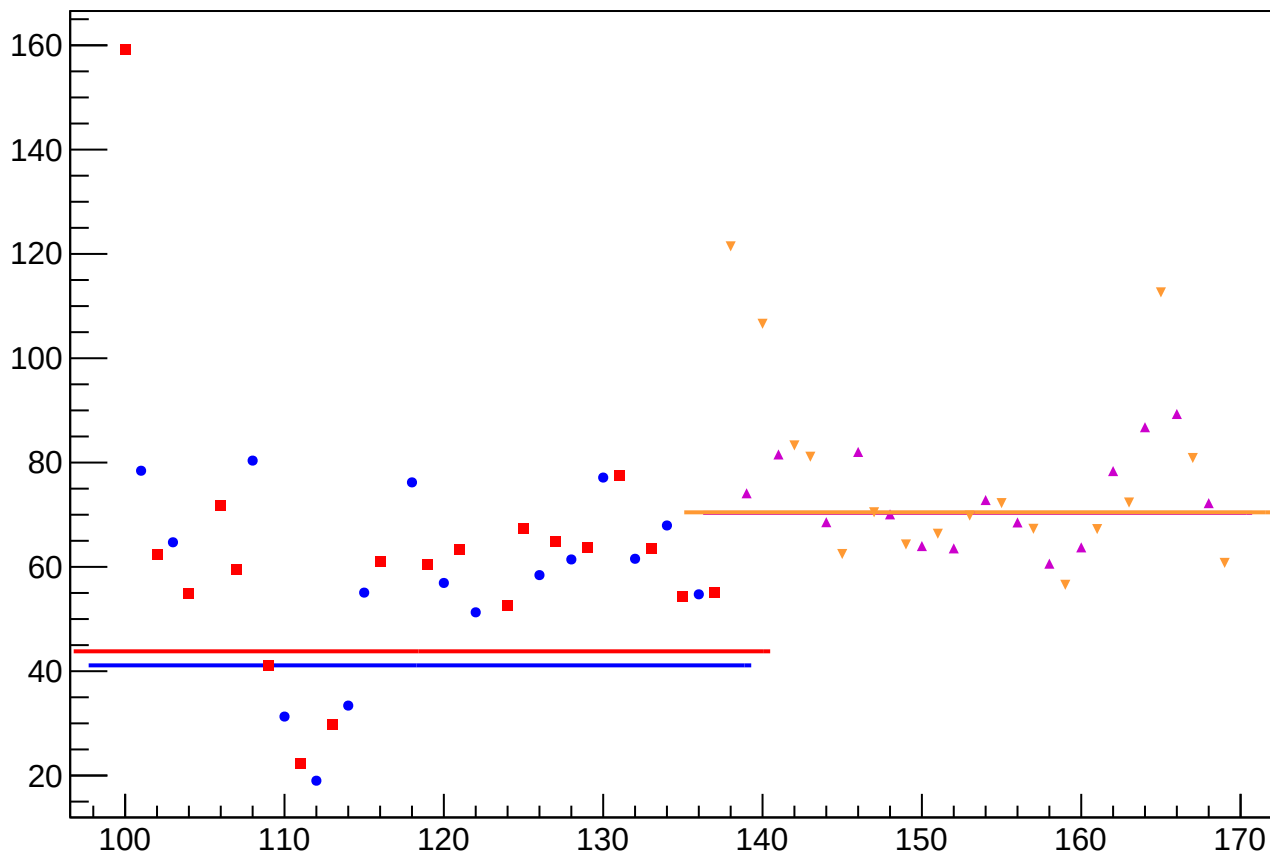
Right: 0.027 ± 0.013 $\chi^2/\text{NDF}: 41.2/34$

In: 0.033 ± 0.013 $\chi^2/\text{NDF}: 36.5/30$

Out: -0.005 ± 0.013 $\chi^2/\text{NDF}: 39.1/35$

All: 0.014 ± 0.009 $\chi^2/\text{NDF}: 79.6/66$

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 41.119 $\pm$ 0.013 χ^2 /NDF: 2925464.8/15

Left Out: 70.459 $\pm$ 0.014 χ^2 /NDF: 854205.6/16

Right Out: 43.813 $\pm$ 0.013 χ^2 /NDF: 2048627.9/18

Left In: 70.349 $\pm$ 0.015 χ^2 /NDF: 267452.8/14

Left: 70.406 $\pm$ 0.010 χ^2 /NDF: 1121688.2/31

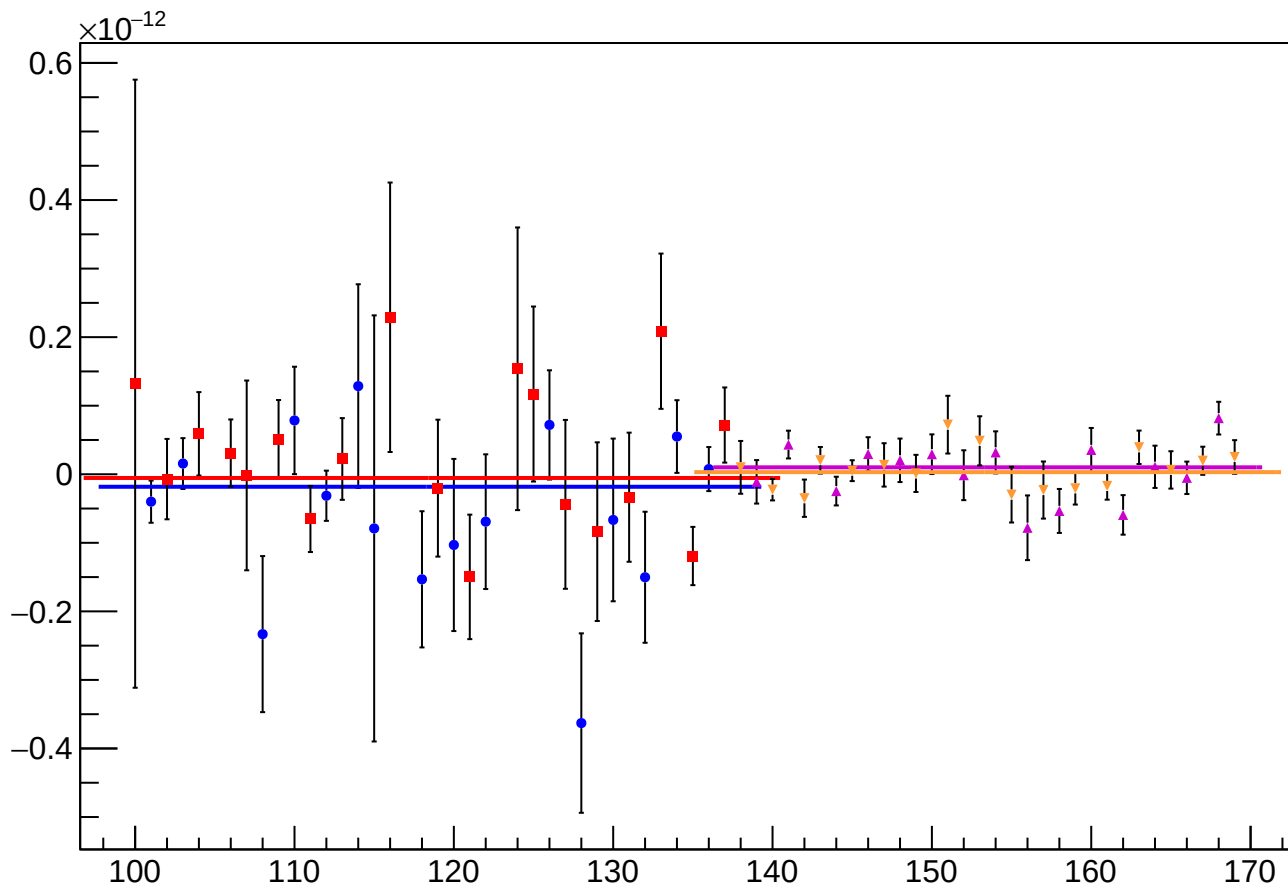
Right: 42.454 $\pm$ 0.009 χ^2 /NDF: 4996859.3/34

In: 53.546 $\pm$ 0.010 χ^2 /NDF: 5493038.3/30

Out: 55.730 $\pm$ 0.009 χ^2 /NDF: 4879098.4/35

All: 54.650 $\pm$ 0.007 χ^2 /NDF: 10398701.9/66

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 23.0/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 16.7/16$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 23.3/18$

Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 31.0/14$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 48.2/31$

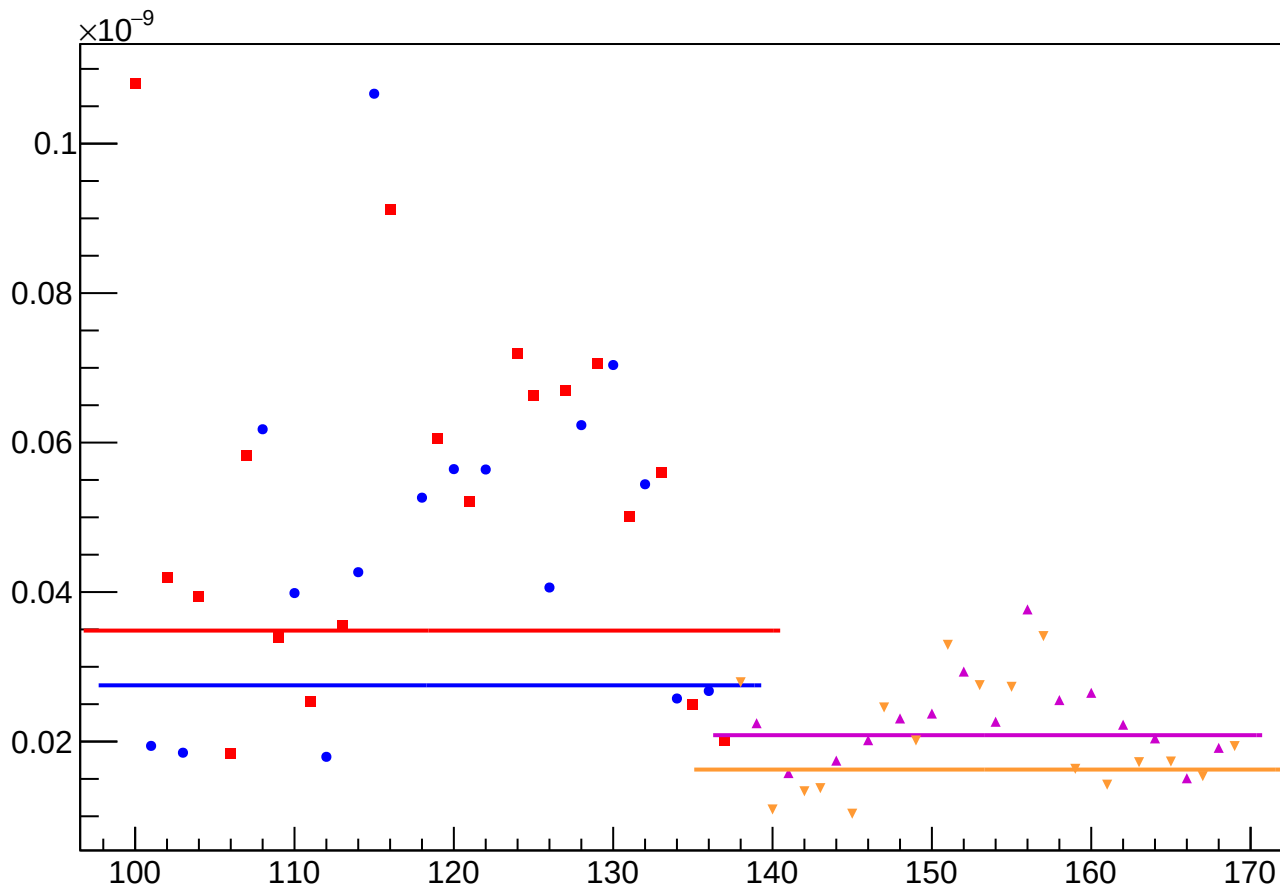
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 46.6/34$

In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 57.1/30$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 40.2/35$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 97.3/66$

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1799776.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2046631.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1676246.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 824858.0/14

Left: 0.000+/-0.000 χ^2/NDF : 3368555.0/31

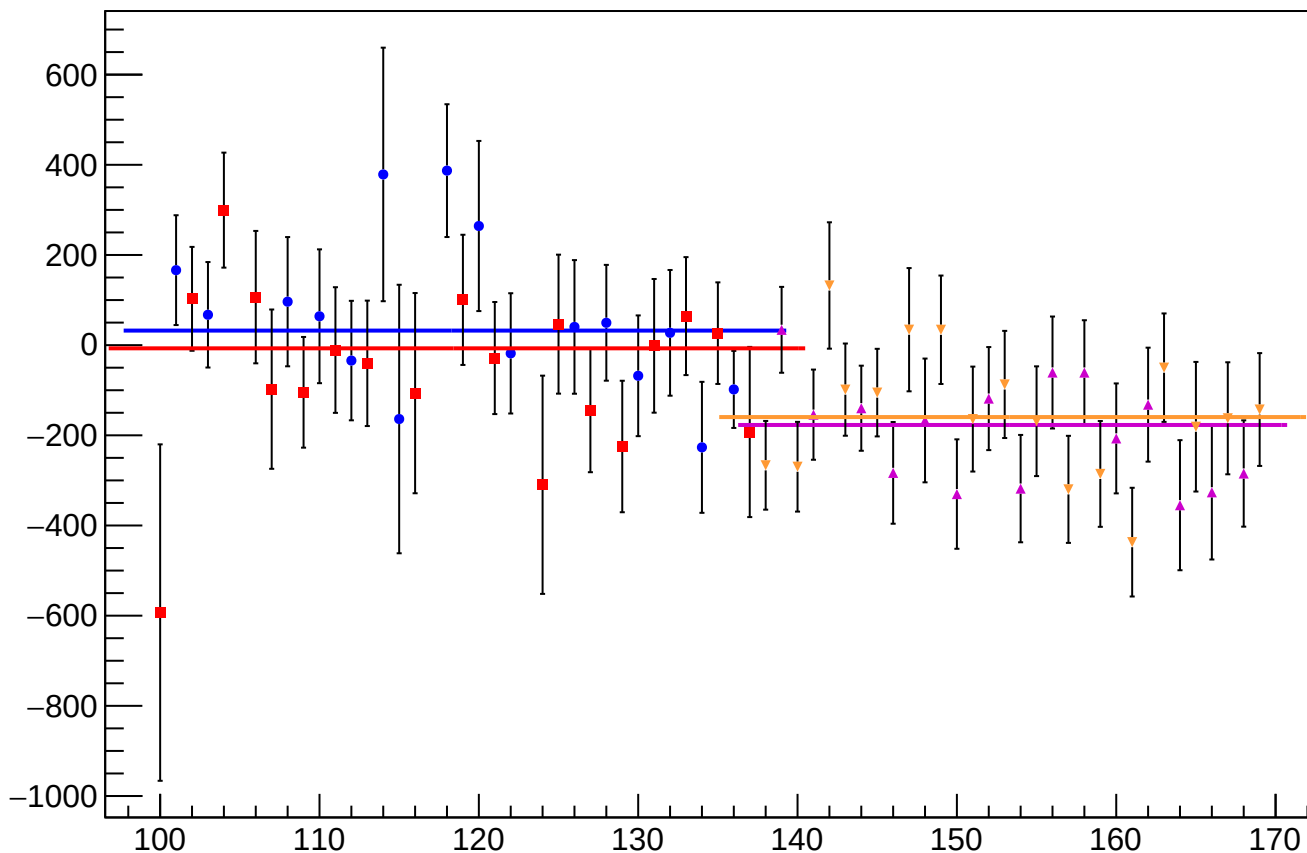
Right: 0.000+/-0.000 χ^2/NDF : 3696738.0/34

In: 0.000+/-0.000 χ^2/NDF : 2968515.6/30

Out: 0.000+/-0.000 χ^2/NDF : 5935181.7/35

All: 0.000+/-0.000 χ^2/NDF : 9327708.2/66

reg_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 32.297 ± 34.429 $\chi^2/\text{NDF}: 17.3/15$

Left Out: -159.515 ± 28.281 $\chi^2/\text{NDF}: 21.5/16$

Right Out: -7.070 ± 33.420 $\chi^2/\text{NDF}: 17.8/18$

Left In: -177.050 ± 30.108 $\chi^2/\text{NDF}: 14.7/14$

Left: -167.734 ± 20.613 $\chi^2/\text{NDF}: 36.4/31$

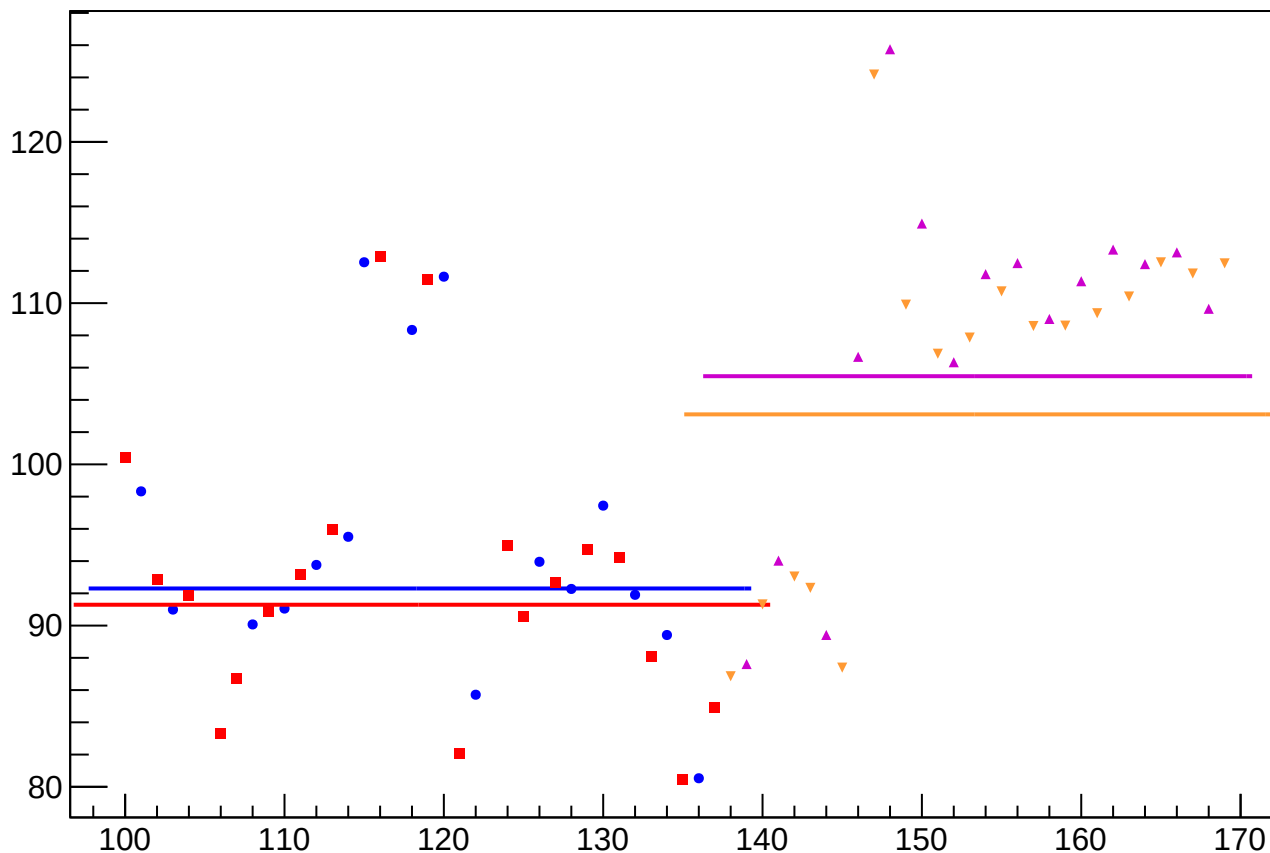
Right: 12.028 ± 23.980 $\chi^2/\text{NDF}: 35.7/34$

In: -86.330 ± 22.664 $\chi^2/\text{NDF}: 53.0/30$

Out: -95.901 ± 21.589 $\chi^2/\text{NDF}: 51.4/35$

All: -91.348 ± 15.632 $\chi^2/\text{NDF}: 104.5/66$

reg_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 92.302 $\pm$ 0.024 χ^2 /NDF: 107066.1/15

Left Out: 103.101 $\pm$ 0.020 χ^2 /NDF: 285641.0/16

Right Out: 91.294 $\pm$ 0.024 χ^2 /NDF: 105096.6/18

Left In: 105.469 $\pm$ 0.021 χ^2 /NDF: 249223.6/14

Left: 104.211 $\pm$ 0.015 χ^2 /NDF: 541434.8/31

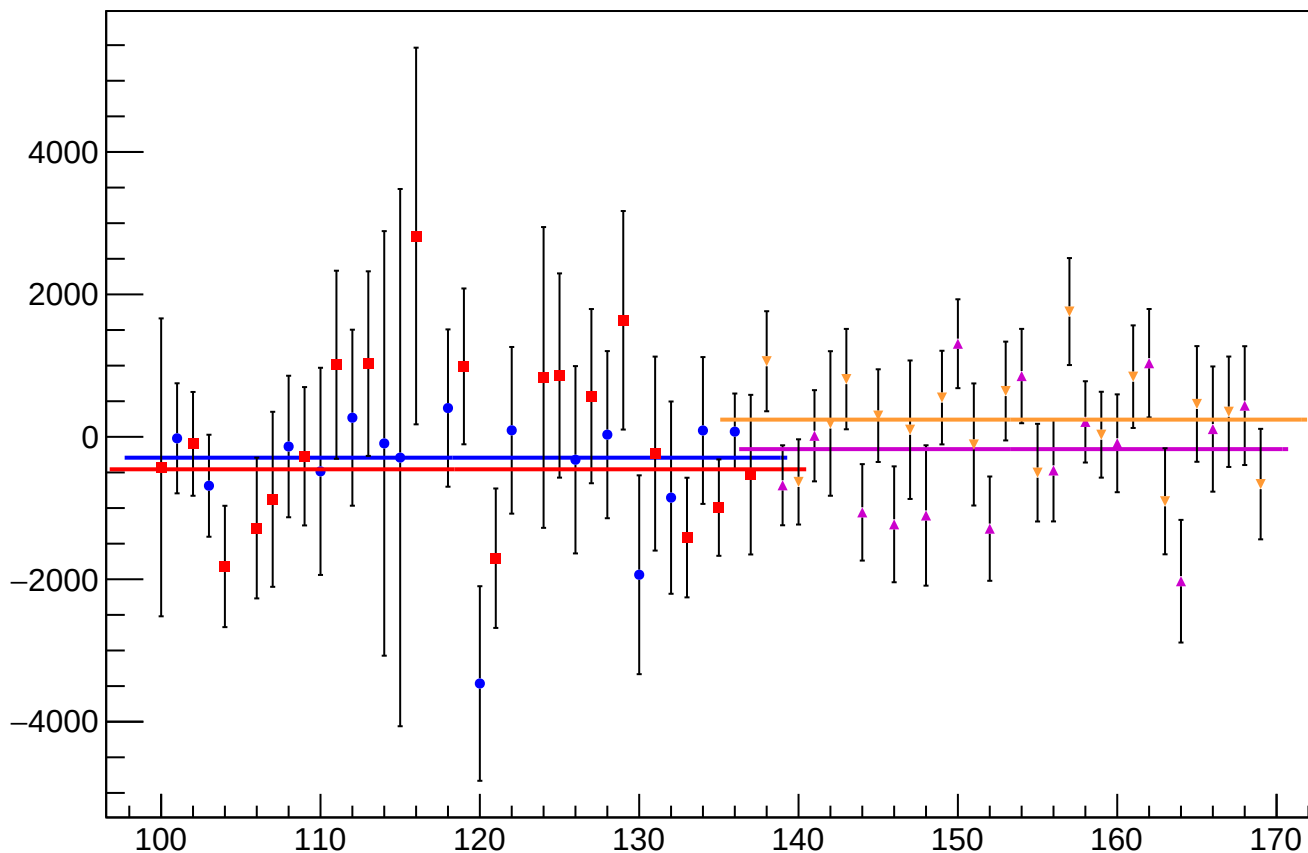
Right: 91.783 $\pm$ 0.017 χ^2 /NDF: 213046.7/34

In: 99.763 $\pm$ 0.016 χ^2 /NDF: 522035.6/30

Out: 98.174 $\pm$ 0.015 χ^2 /NDF: 536214.7/35

All: 98.930 $\pm$ 0.011 χ^2 /NDF: 1063405.9/66

asym_sam_15_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -292.756 ± 259.692 χ^2/NDF : 8.8/15

Left Out: 241.743 ± 176.233 χ^2/NDF : 14.8/16

Right Out: -455.830 ± 248.717 χ^2/NDF : 16.9/18

Left In: -172.455 ± 182.612 χ^2/NDF : 24.0/14

Left: 42.005 ± 126.811 χ^2/NDF : 41.5/31

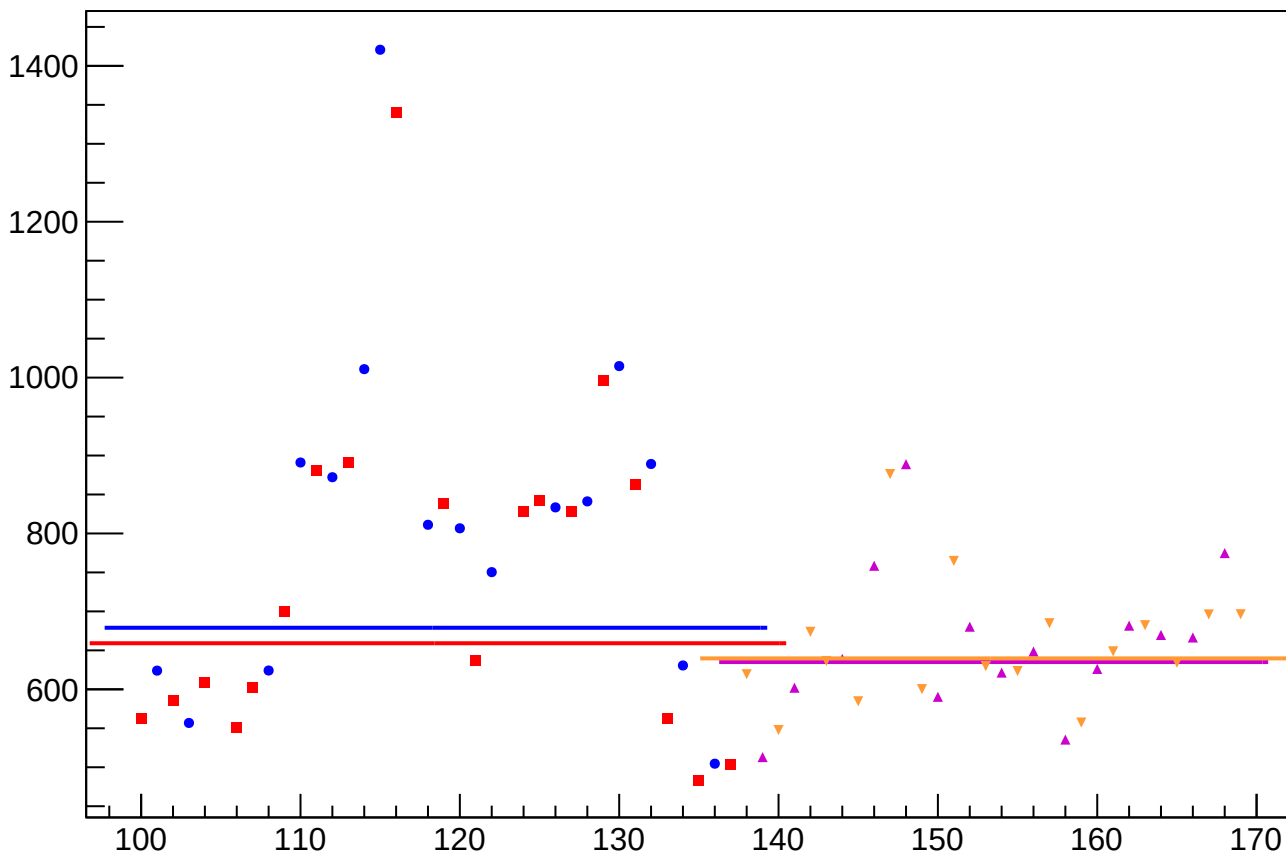
Right: -377.812 ± 179.624 χ^2/NDF : 25.9/34

In: -212.258 ± 149.378 χ^2/NDF : 32.9/30

Out: 8.578 ± 143.794 χ^2/NDF : 36.9/35

All: -97.636 ± 103.596 χ^2/NDF : 71.0/66

asym_sam_15_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 679.003 $\pm$ 0.184 χ^2 /NDF: 767983.3/15

Left Out: 639.684 $\pm$ 0.125 χ^2 /NDF:307857.6/16

Right Out: 659.133 $\pm$ 0.176 χ^2 /NDF: 795877.7/18

Left In: 635.020 $\pm$ 0.129 χ^2 /NDF:428671.7/14

Left: 637.435 $\pm$ 0.090 χ^2 /NDF: 737204.9/31

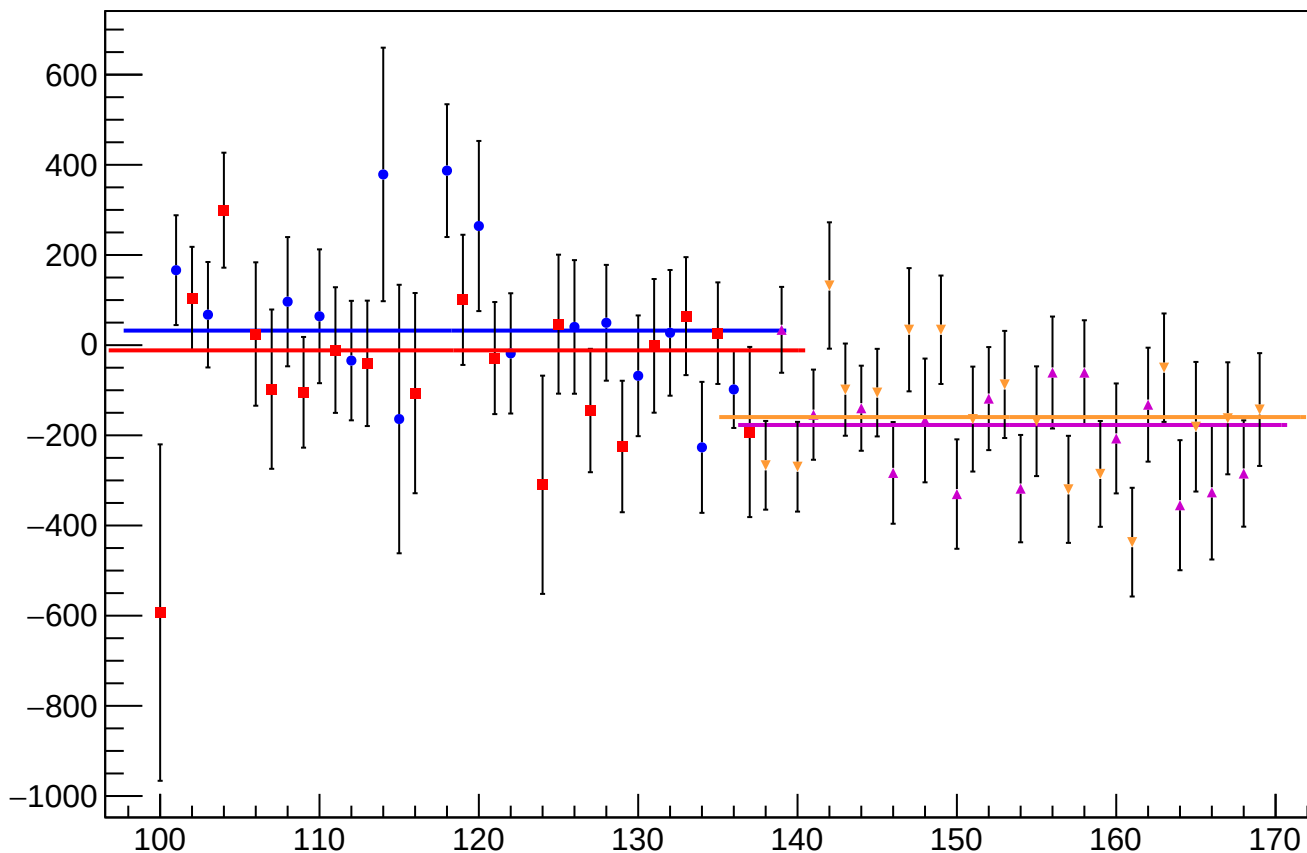
Right: 668.639 $\pm$ 0.127 χ^2 /NDF: 1569967.8/34

In: 649.572 $\pm$ 0.106 χ^2 /NDF:1235043.7/30

Out: 646.185 $\pm$ 0.102 χ^2 /NDF:1111877.5/35

All: 647.814 $\pm$ 0.073 χ^2 /NDF: 2347455.0/66

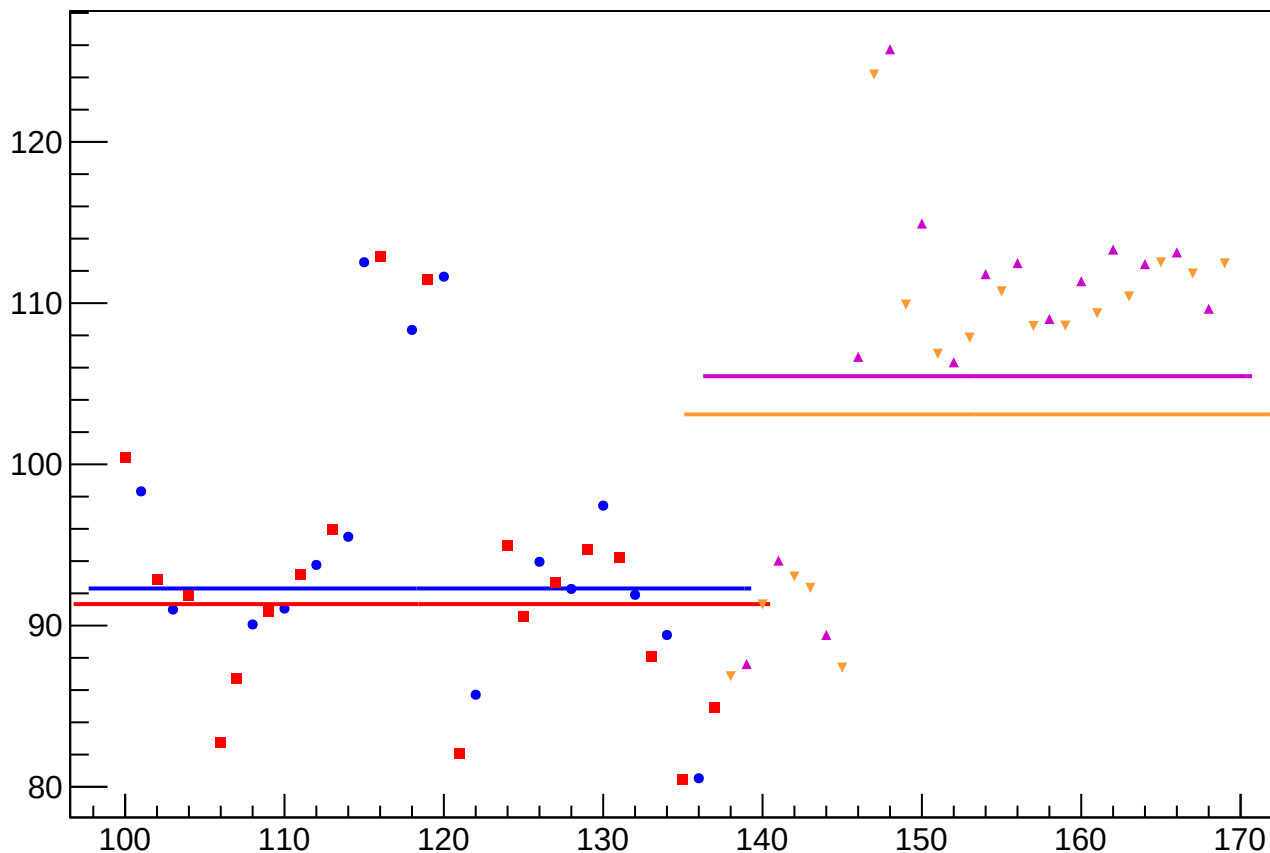
cor_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 32.312 ± 34.429 $\chi^2/\text{NDF}: 17.3/15$
 Left Out: -159.513 ± 28.281 $\chi^2/\text{NDF}: 21.5/16$
 Right Out: -11.576 ± 33.548 $\chi^2/\text{NDF}: 17.2/18$
 Left In: -177.052 ± 30.108 $\chi^2/\text{NDF}: 14.7/14$

Left: -167.734 ± 20.613 $\chi^2/\text{NDF}: 36.4/31$
 Right: 9.800 ± 24.028 $\chi^2/\text{NDF}: 35.3/34$
 In: -86.325 ± 22.664 $\chi^2/\text{NDF}: 53.0/30$
 Out: -98.056 ± 21.623 $\chi^2/\text{NDF}: 50.1/35$
 All: -92.466 ± 15.645 $\chi^2/\text{NDF}: 103.2/66$

cor_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 92.302 $\pm$ 0.024 χ^2 /NDF: 107066.1/15

Left Out: 103.101 $\pm$ 0.020 χ^2 /NDF: 285641.1/16

Right Out: 91.332 $\pm$ 0.024 χ^2 /NDF: 104918.3/18

Left In: 105.469 $\pm$ 0.021 χ^2 /NDF: 249223.6/14

Left: 104.211 $\pm$ 0.015 χ^2 /NDF: 541434.8/31

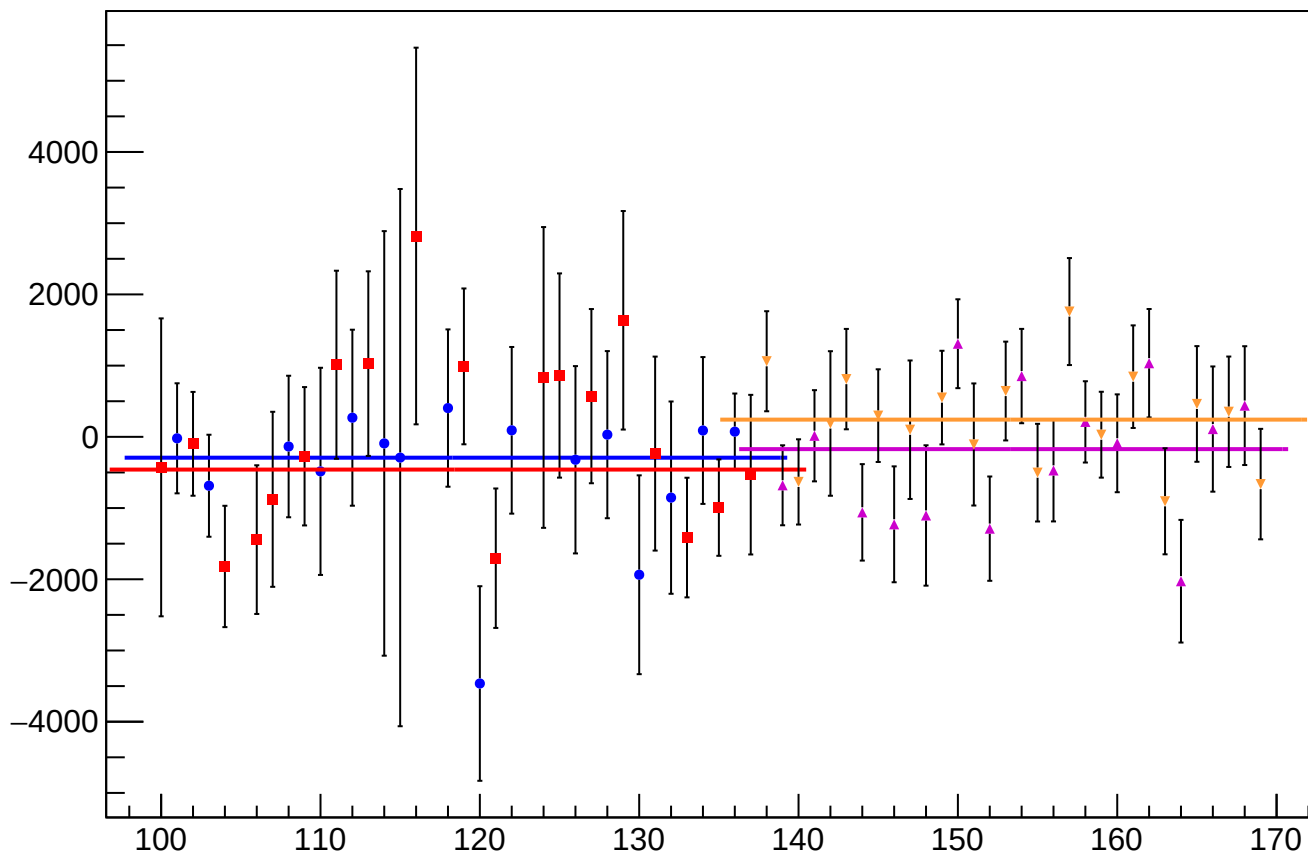
Right: 91.805 $\pm$ 0.017 χ^2 /NDF: 212799.4/34

In: 99.763 $\pm$ 0.016 χ^2 /NDF: 522035.6/30

Out: 98.212 $\pm$ 0.015 χ^2 /NDF: 534446.8/35

All: 98.951 $\pm$ 0.011 χ^2 /NDF: 1061387.1/66

asym_sam_15_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -292.753 ± 259.692 χ^2/NDF : 8.8/15

Left Out: 241.742 ± 176.233 χ^2/NDF : 14.8/16

Right Out: -459.595 ± 249.543 χ^2/NDF : 17.1/18

Left In: -172.457 ± 182.612 χ^2/NDF : 24.0/14

Left: 42.004 ± 126.811 χ^2/NDF : 41.5/31

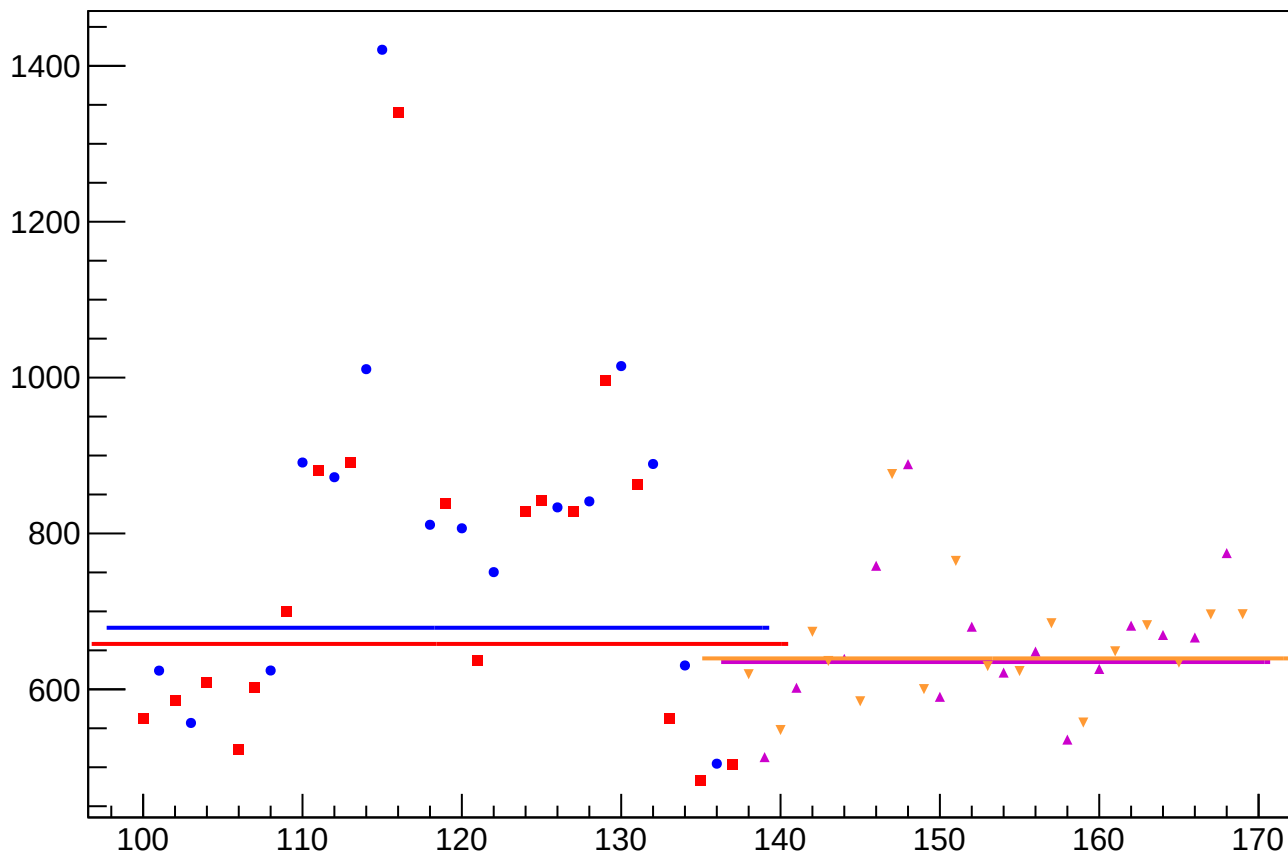
Right: -379.498 ± 179.935 χ^2/NDF : 26.1/34

In: -212.259 ± 149.378 χ^2/NDF : 32.9/30

Out: 8.353 ± 143.953 χ^2/NDF : 37.1/35

All: -97.875 ± 103.655 χ^2/NDF : 71.2/66

asym_sam_15_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 679.003 $\pm$ 0.184 χ^2 /NDF: 767985.6/15

Left Out: 639.684 $\pm$ 0.125 χ^2 /NDF: 307858.6/16

Right Out: 658.262 $\pm$ 0.176 χ^2 /NDF: 805898.2/18

Left In: 635.020 $\pm$ 0.129 χ^2 /NDF: 428672.4/14

Left: 637.435 $\pm$ 0.090 χ^2 /NDF: 737206.6/31

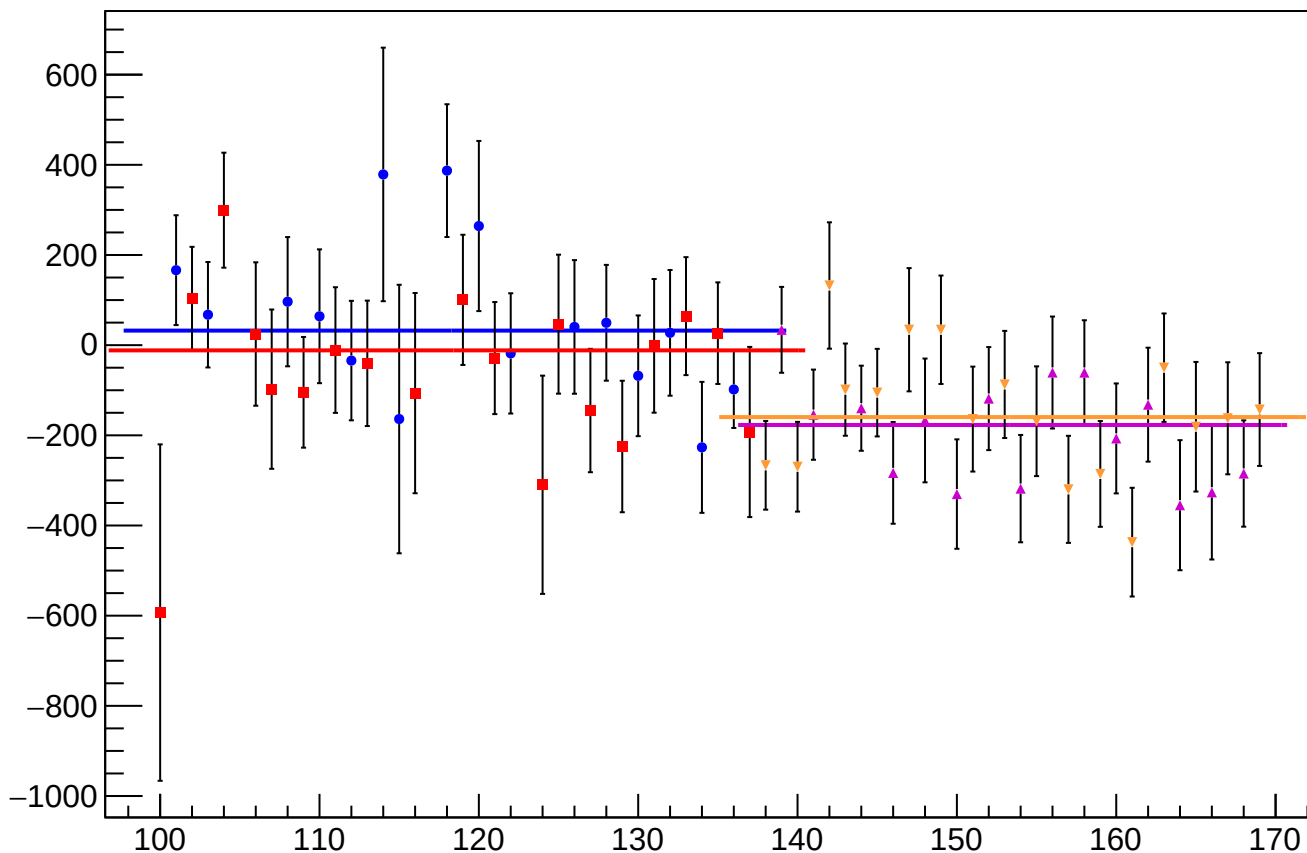
Right: 668.219 $\pm$ 0.127 χ^2 /NDF: 1580516.6/34

In: 649.572 $\pm$ 0.106 χ^2 /NDF: 1235045.2/30

Out: 645.866 $\pm$ 0.102 χ^2 /NDF: 1121152.7/35

All: 647.651 $\pm$ 0.073 χ^2 /NDF: 2356836.2/66

eigen_cor_asym_sam_15_dd_mean vs Slug, Sign Corrected

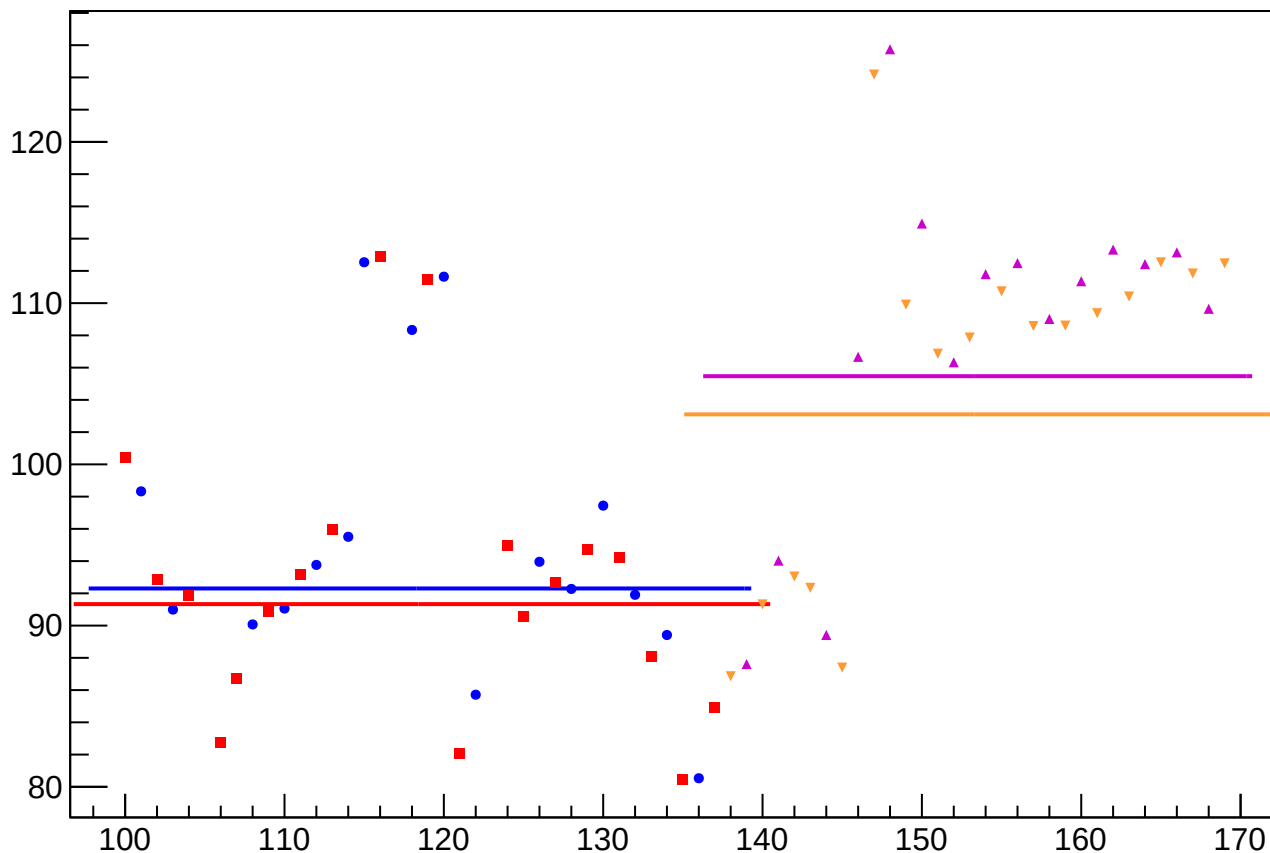


Right In: 32.312 ± 34.429 $\chi^2/\text{NDF}: 17.3/15$
 Left Out: -159.513 ± 28.281 $\chi^2/\text{NDF}: 21.5/16$
 Right Out: -11.576 ± 33.548 $\chi^2/\text{NDF}: 17.2/18$
 Left In: -177.052 ± 30.108 $\chi^2/\text{NDF}: 14.7/14$

Left: -167.734 ± 20.613 $\chi^2/\text{NDF}: 36.4/31$
 Right: 9.800 ± 24.028 $\chi^2/\text{NDF}: 35.3/34$
 In: -86.325 ± 22.664 $\chi^2/\text{NDF}: 53.0/30$
 Out: -98.056 ± 21.623 $\chi^2/\text{NDF}: 50.1/35$

All: -92.466 ± 15.645 $\chi^2/\text{NDF}: 103.2/66$

eigen_cor_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 92.302 $\pm$ 0.024 χ^2 /NDF: 107066.1/15

Left Out: 103.101 $\pm$ 0.020 χ^2 /NDF: 285641.1/16

Right Out: 91.332 $\pm$ 0.024 χ^2 /NDF: 104918.3/18

Left In: 105.469 $\pm$ 0.021 χ^2 /NDF: 249223.6/14

Left: 104.211 $\pm$ 0.015 χ^2 /NDF: 541434.8/31

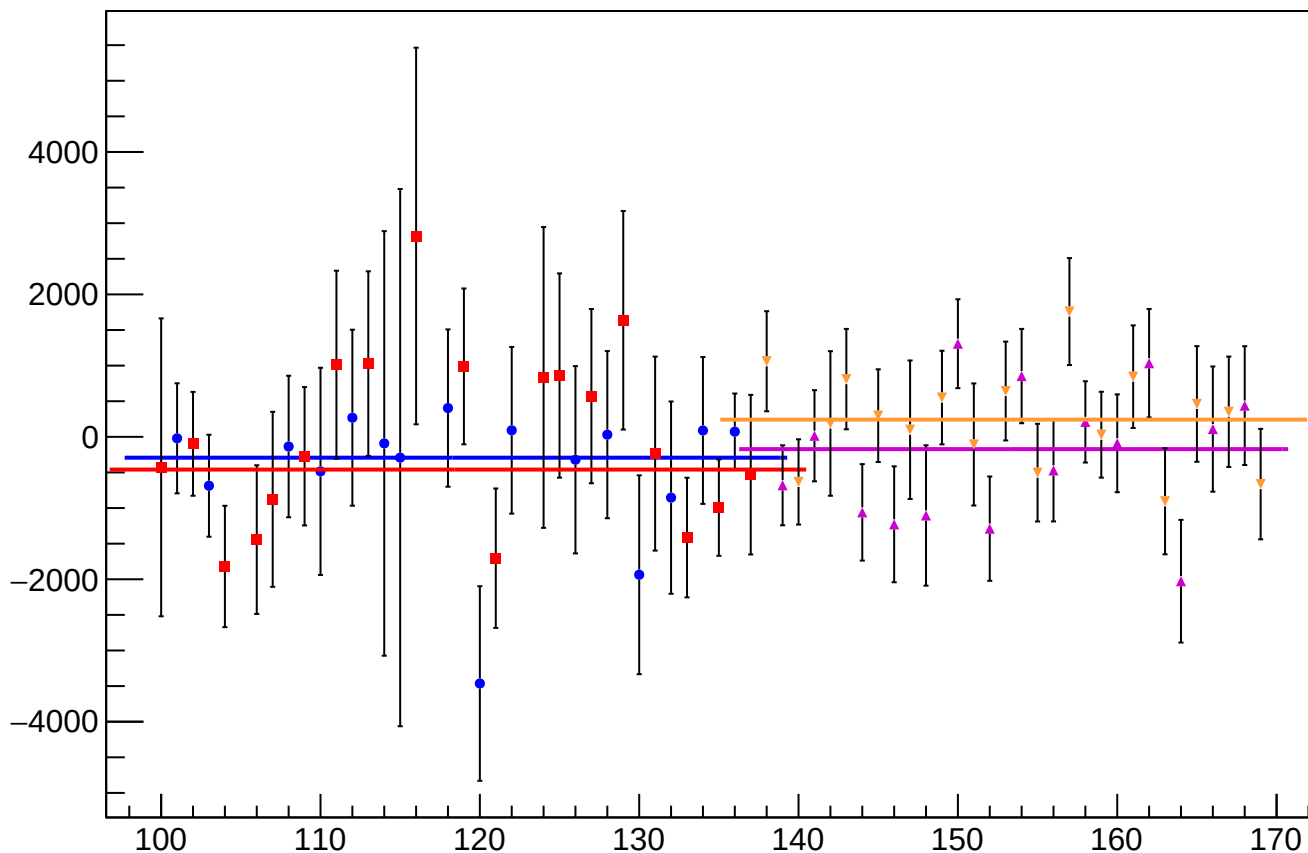
Right: 91.805 $\pm$ 0.017 χ^2 /NDF: 212799.4/34

In: 99.763 $\pm$ 0.016 χ^2 /NDF: 522035.6/30

Out: 98.212 $\pm$ 0.015 χ^2 /NDF: 534446.8/35

All: 98.951 $\pm$ 0.011 χ^2 /NDF: 1061387.1/66

asym_sam_15_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -292.753+/-259.692 χ^2/NDF : 8.8/15

Left Out: 241.742+/-176.233 χ^2/NDF :14.8/16

Right Out: -459.595+/-249.543 χ^2/NDF : 17.1/18

Left In: -172.457+/-182.612 χ^2/NDF :24.0/14

Left: 42.004+/-126.811 χ^2/NDF : 41.5/31

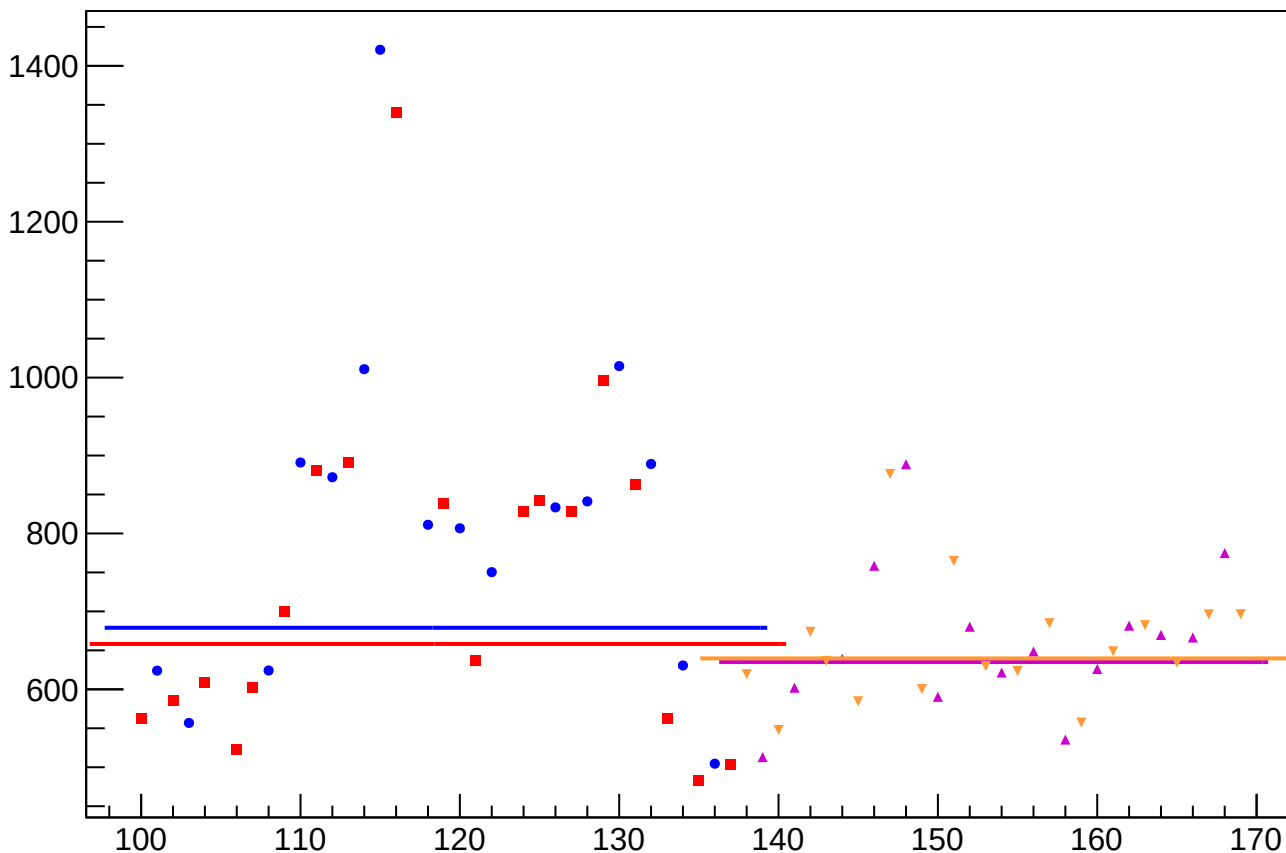
Right: -379.498+/-179.935 χ^2/NDF : 26.1/34

In: -212.259+/-149.378 χ^2/NDF :32.9/30

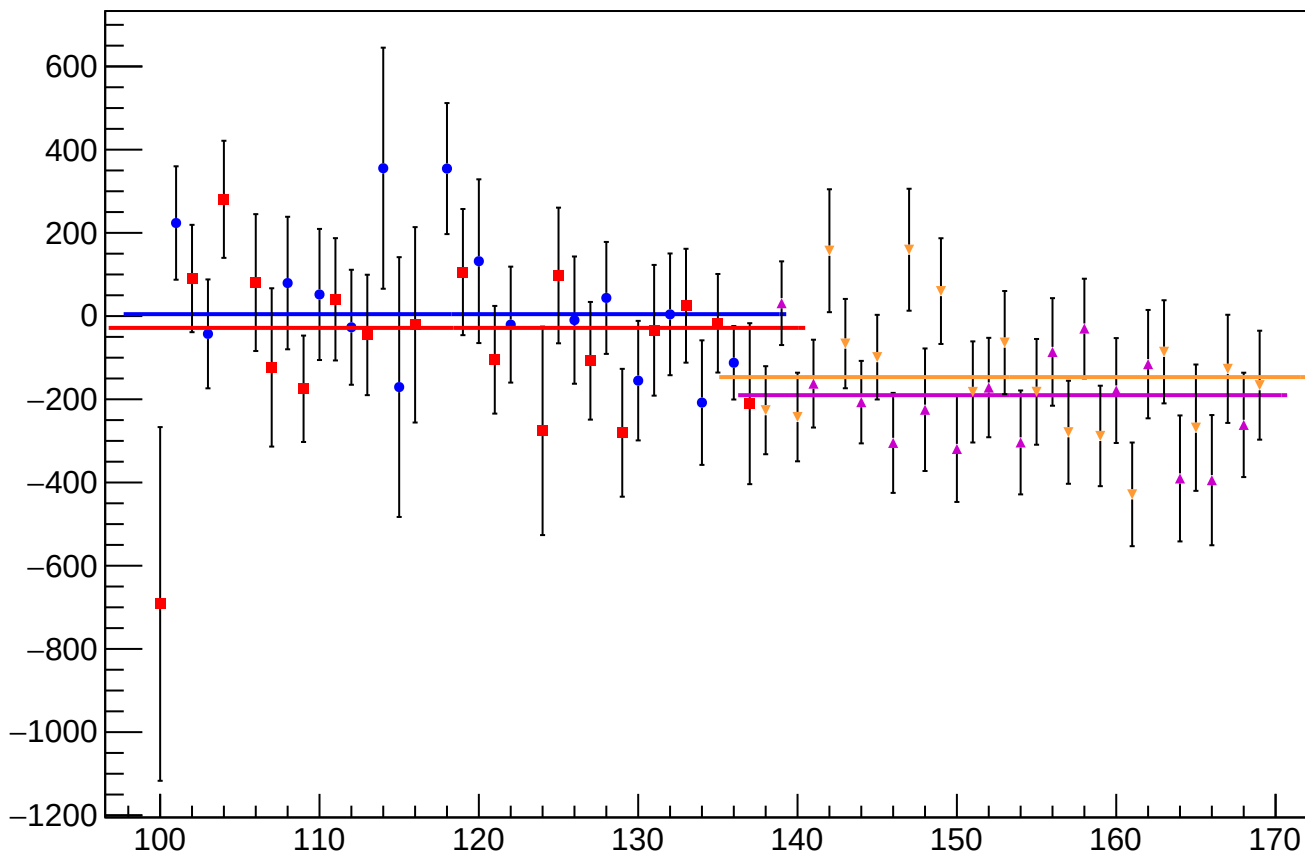
Out: 8.353+/-143.953 χ^2/NDF :37.1/35

All: -97.875+/-103.655 χ^2/NDF : 71.2/66

asym_sam_15_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



dit_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 4.619 ± 36.509 $\chi^2/\text{NDF}: 15.3/15$

Left Out: -146.635 ± 29.695 $\chi^2/\text{NDF}: 22.6/16$

Right Out: -28.407 ± 35.465 $\chi^2/\text{NDF}: 17.1/18$

Left In: -190.117 ± 31.608 $\chi^2/\text{NDF}: 14.3/14$

Left: -167.021 ± 21.642 $\chi^2/\text{NDF}: 37.9/31$

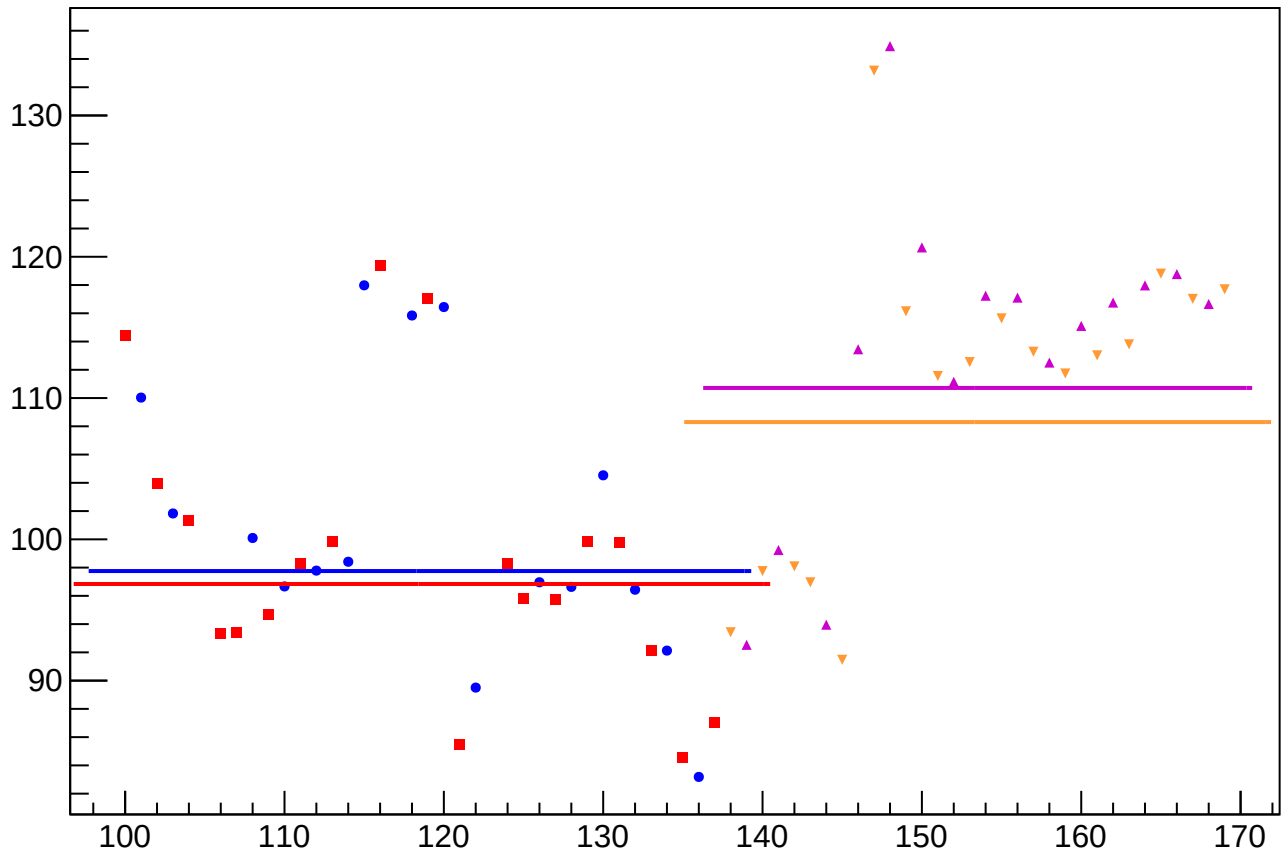
Right: -12.373 ± 25.439 $\chi^2/\text{NDF}: 32.9/34$

In: -106.689 ± 23.896 $\chi^2/\text{NDF}: 45.9/30$

Out: -97.909 ± 22.768 $\chi^2/\text{NDF}: 46.2/35$

All: -102.087 ± 16.484 $\chi^2/\text{NDF}: 92.2/66$

dit_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 97.756+/-0.026 χ^2/NDF : 140654.4/15

Left Out: 108.300+/-0.021 χ^2/NDF : 261971.2/16

Right Out: 96.840+/-0.025 χ^2/NDF : 115170.9/18

Left In: 110.715+/-0.022 χ^2/NDF : 245245.7/14

Left: 109.433+/-0.015 χ^2/NDF : 513420.3/31

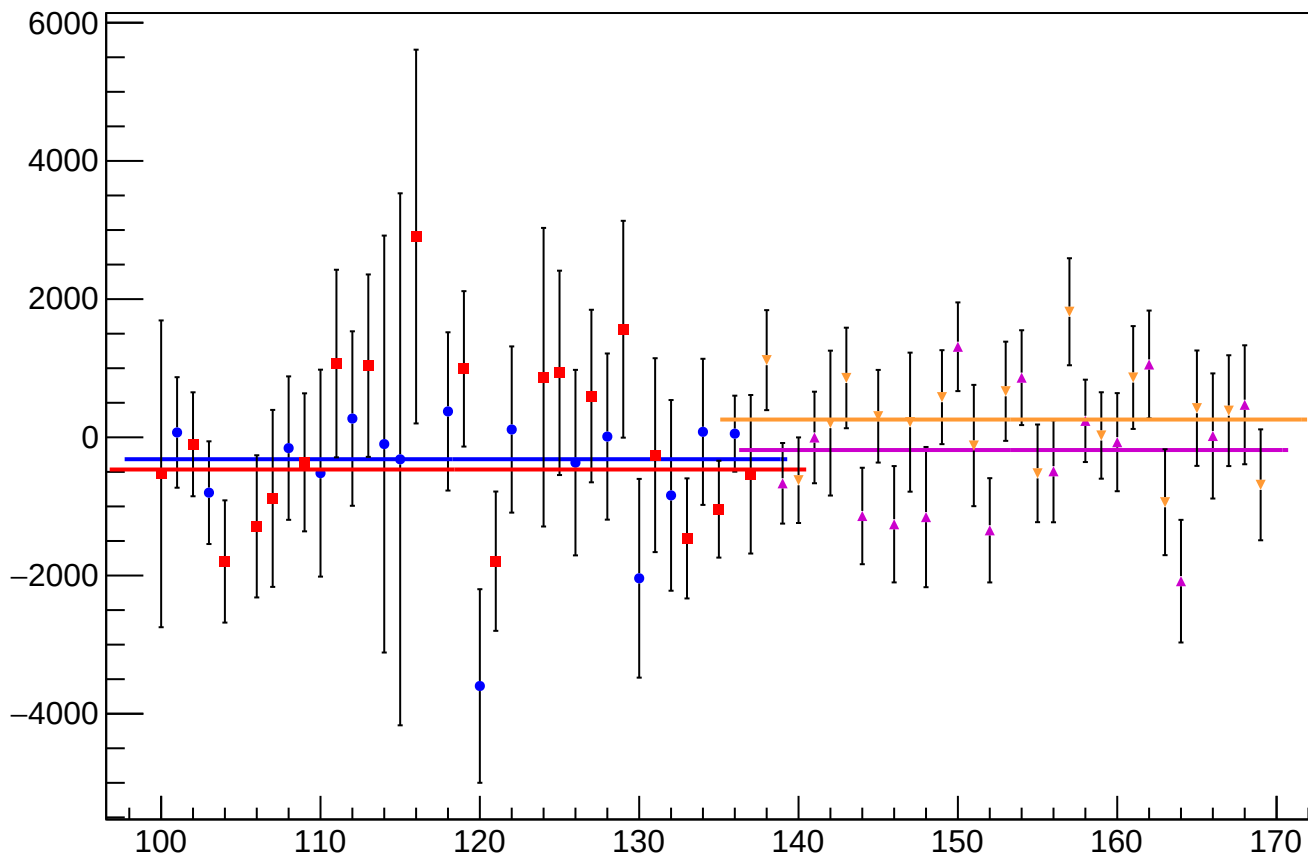
Right: 97.285+/-0.018 χ^2/NDF : 256473.4/34

In: 105.163+/-0.017 χ^2/NDF : 529942.4/30

Out: 103.577+/-0.016 χ^2/NDF : 499918.7/35

All: 104.332+/-0.012 χ^2/NDF : 1034482.1/66

asym_sam_15_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -316.572 ± 267.515 χ^2/NDF : 9.2/15

Left Out: 257.443 ± 181.942 χ^2/NDF : 14.8/16

Right Out: -465.576 ± 256.646 χ^2/NDF : 16.5/18

Left In: -183.776 ± 188.718 χ^2/NDF : 23.7/14

Left: 44.897 ± 130.983 χ^2/NDF : 41.4/31

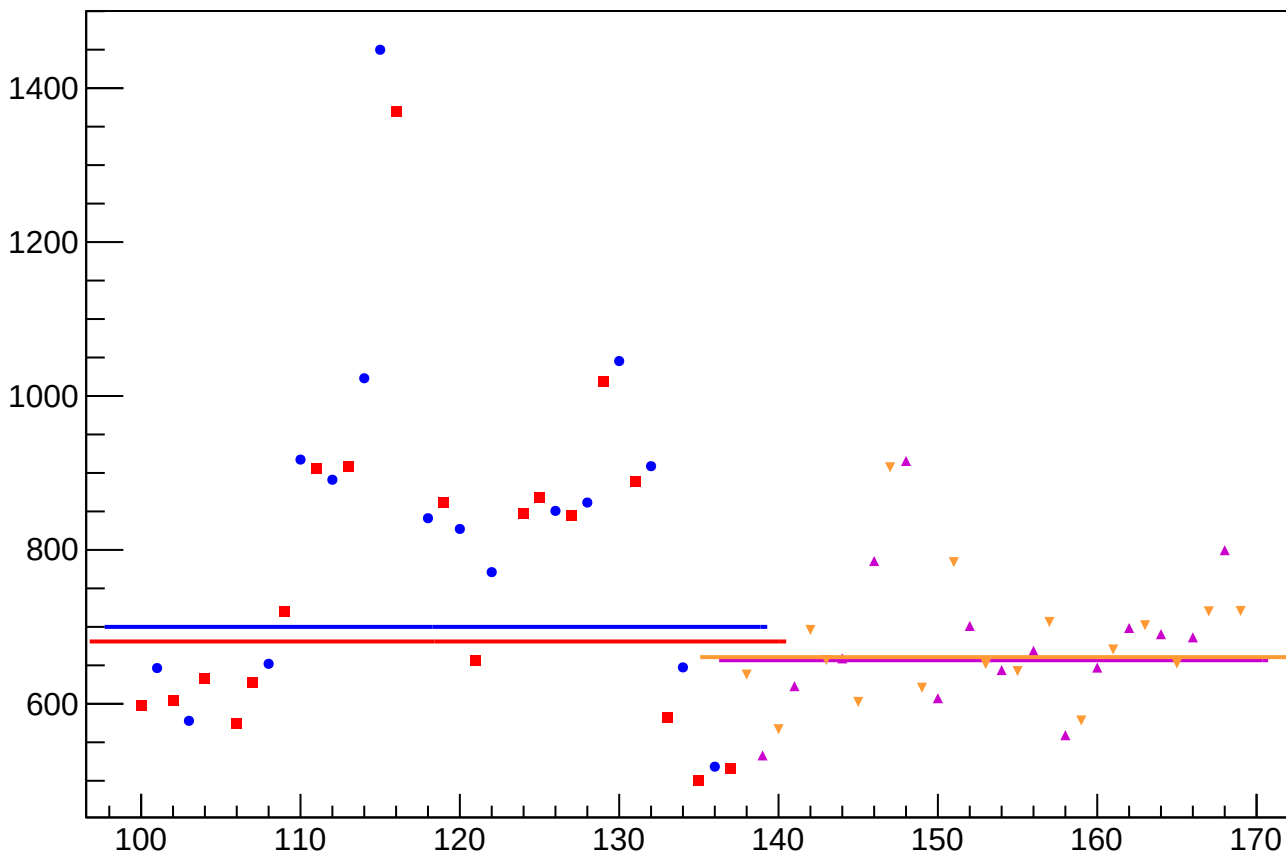
Right: -394.162 ± 185.199 χ^2/NDF : 25.8/34

In: -227.902 ± 154.208 χ^2/NDF : 33.0/30

Out: 15.612 ± 148.428 χ^2/NDF : 36.6/35

All: -101.496 ± 106.939 χ^2/NDF : 70.9/66

asym_sam_15_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 699.973 $\pm$ 0.189 χ^2 /NDF: 753665.4/15

Left Out: 660.655 $\pm$ 0.129 χ^2 /NDF: 303512.3/16

Right Out: 681.016 $\pm$ 0.181 χ^2 /NDF: 769397.2/18

Left In: 656.667 $\pm$ 0.133 χ^2 /NDF: 412114.9/14

Left: 658.734 $\pm$ 0.093 χ^2 /NDF: 716090.2/31

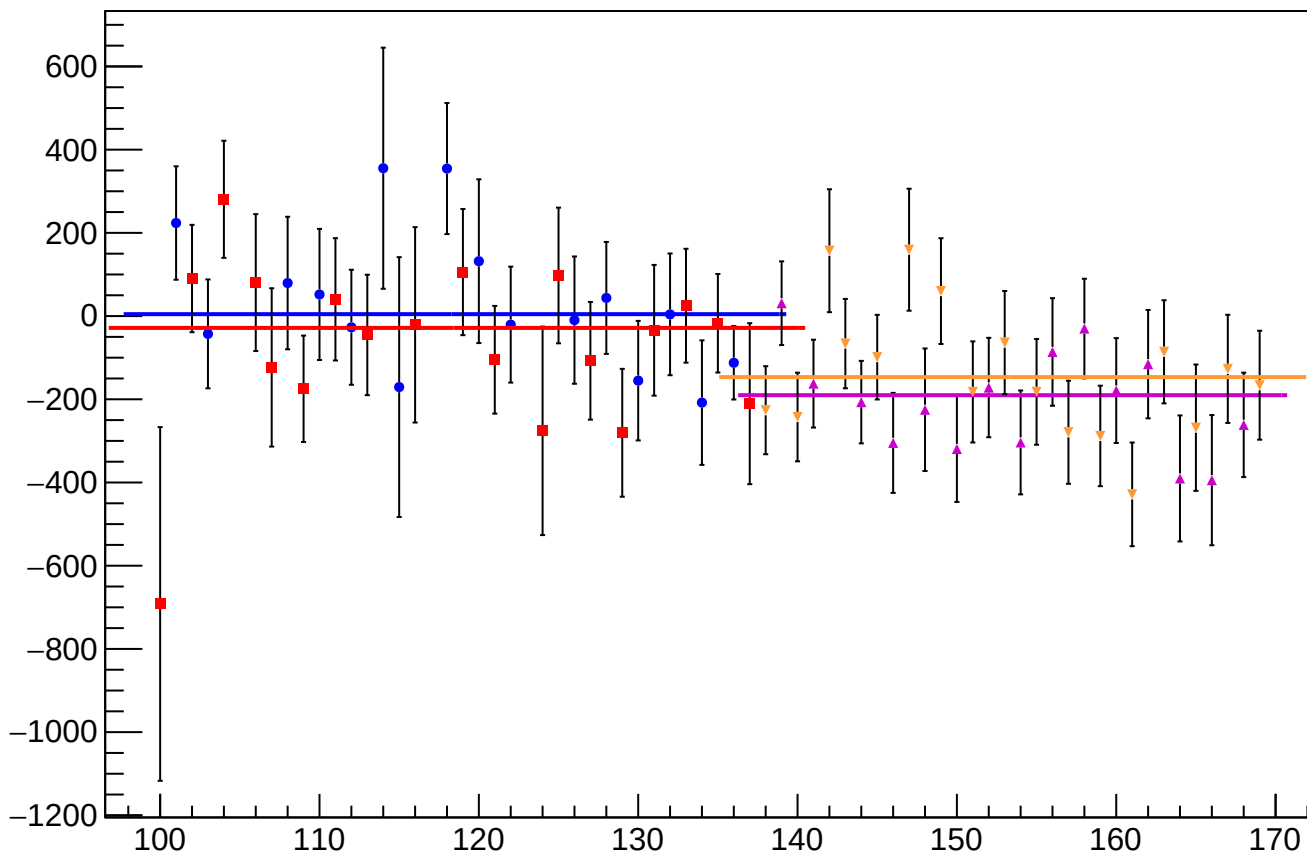
Right: 690.102 $\pm$ 0.131 χ^2 /NDF: 1528292.0/34

In: 671.057 $\pm$ 0.109 χ^2 /NDF: 1200776.5/30

Out: 667.465 $\pm$ 0.105 χ^2 /NDF: 1081287.5/35

All: 669.193 $\pm$ 0.076 χ^2 /NDF: 2282627.1/66

eigen_dit_asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 4.620 ± 36.509 $\chi^2/\text{NDF}: 15.3/15$

Left Out: -146.636 ± 29.695 $\chi^2/\text{NDF}: 22.6/16$

Right Out: -28.407 ± 35.465 $\chi^2/\text{NDF}: 17.1/18$

Left In: -190.118 ± 31.608 $\chi^2/\text{NDF}: 14.3/14$

Left: -167.021 ± 21.642 $\chi^2/\text{NDF}: 37.9/31$

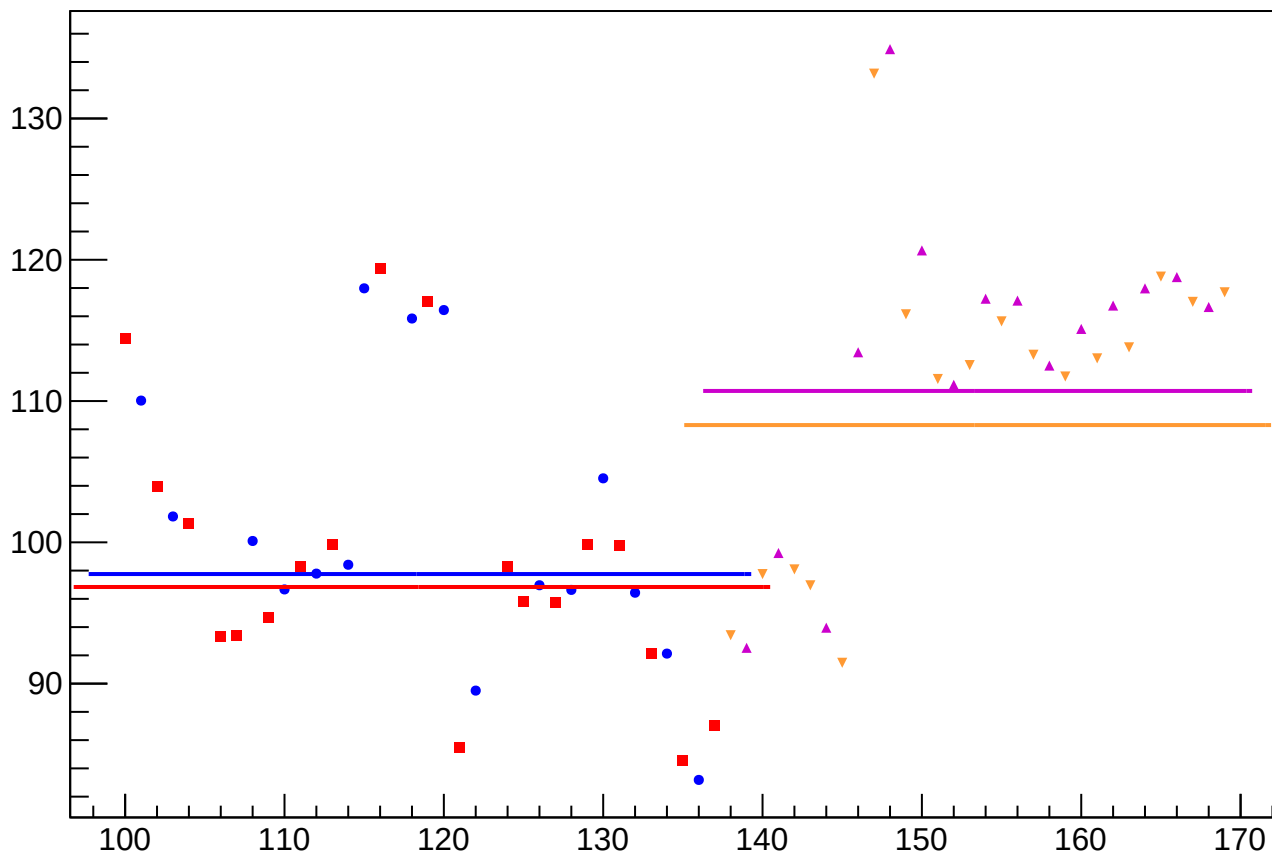
Right: -12.373 ± 25.438 $\chi^2/\text{NDF}: 32.9/34$

In: -106.688 ± 23.896 $\chi^2/\text{NDF}: 45.9/30$

Out: -97.909 ± 22.768 $\chi^2/\text{NDF}: 46.2/35$

All: -102.086 ± 16.484 $\chi^2/\text{NDF}: 92.2/66$

eigen_dit_asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 97.756 $\pm$ 0.026 χ^2 /NDF: 140654.8/15

Left Out: 108.300 $\pm$ 0.021 χ^2 /NDF: 261970.5/16

Right Out: 96.839 $\pm$ 0.025 χ^2 /NDF: 115173.1/18

Left In: 110.716 $\pm$ 0.022 χ^2 /NDF: 245242.8/14

Left: 109.433 $\pm$ 0.015 χ^2 /NDF: 513416.7/31

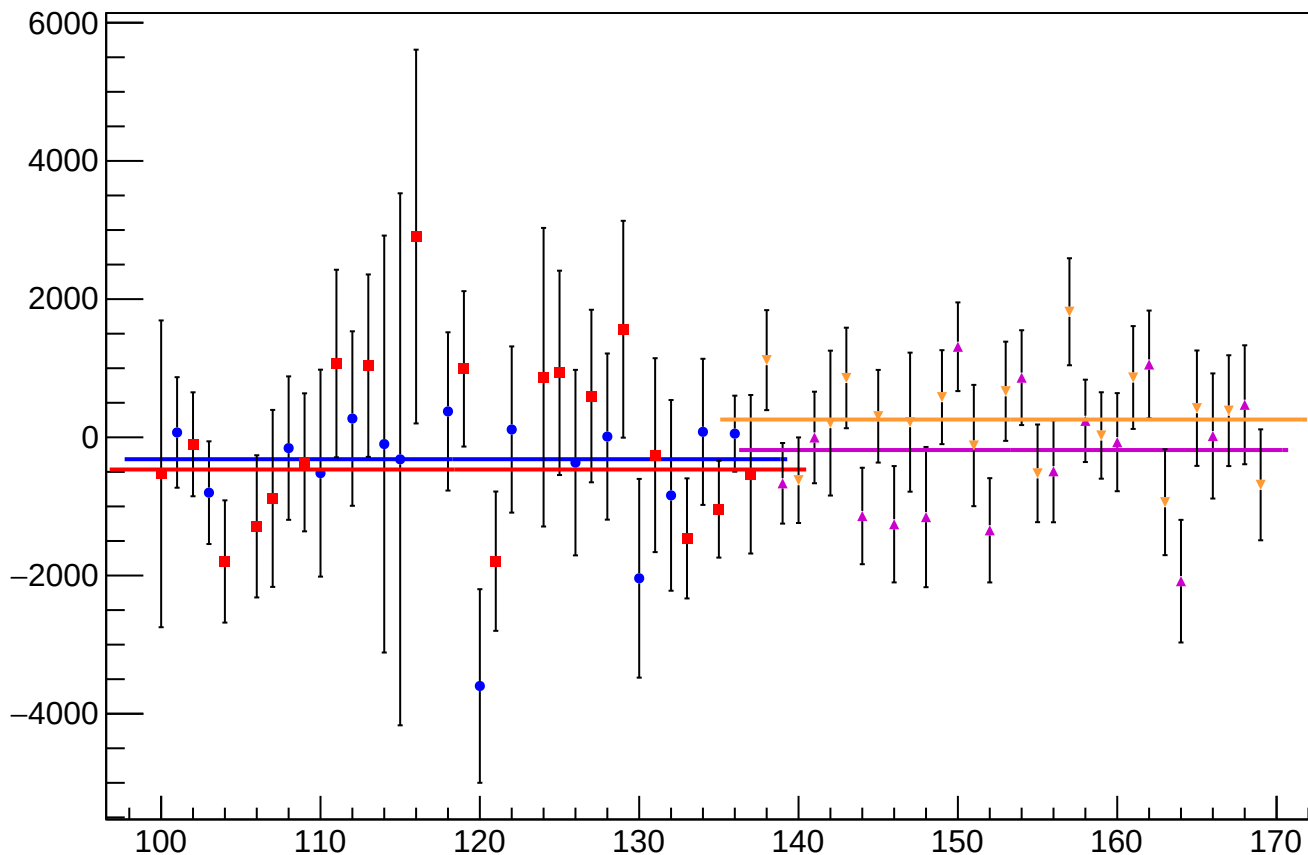
Right: 97.284 $\pm$ 0.018 χ^2 /NDF: 256476.1/34

In: 105.163 $\pm$ 0.017 χ^2 /NDF: 529948.4/30

Out: 103.577 $\pm$ 0.016 χ^2 /NDF: 499928.9/35

All: 104.332 $\pm$ 0.012 χ^2 /NDF: 1034498.5/66

asym_sam_15_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -316.570 $\pm$ 267.515 χ^2 /NDF: 9.2/15

Left Out: 257.444 $\pm$ 181.942 χ^2 /NDF:14.8/16

Right Out: -465.576 $\pm$ 256.645 χ^2 /NDF: 16.5/18

Left In: -183.776 $\pm$ 188.718 χ^2 /NDF:23.7/14

Left: 44.897 $\pm$ 130.983 χ^2 /NDF: 41.4/31

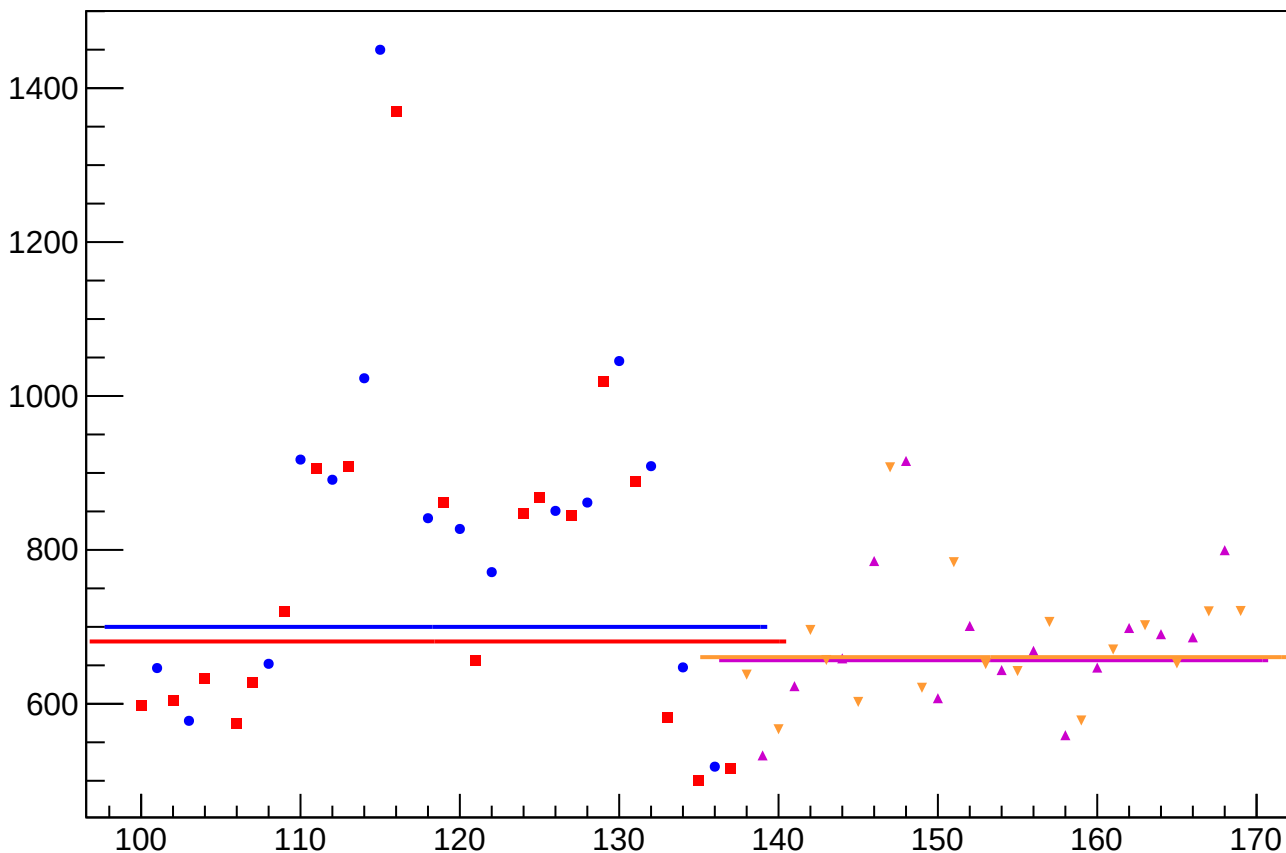
Right: -394.162 $\pm$ 185.199 χ^2 /NDF: 25.8/34

In: -227.902 $\pm$ 154.208 χ^2 /NDF:33.0/30

Out: 15.611 $\pm$ 148.428 χ^2 /NDF:36.6/35

All: -101.497 $\pm$ 106.939 χ^2 /NDF: 70.9/66

asym_sam_15_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 699.971+/-0.189 χ^2/NDF : 753668.1/15

Left Out: 660.656+/-0.129 χ^2/NDF : 303512.5/16

Right Out: 681.015+/-0.181 χ^2/NDF : 769400.5/18

Left In: 656.667+/-0.133 χ^2/NDF : 412115.3/14

Left: 658.734+/-0.093 χ^2/NDF : 716090.8/31

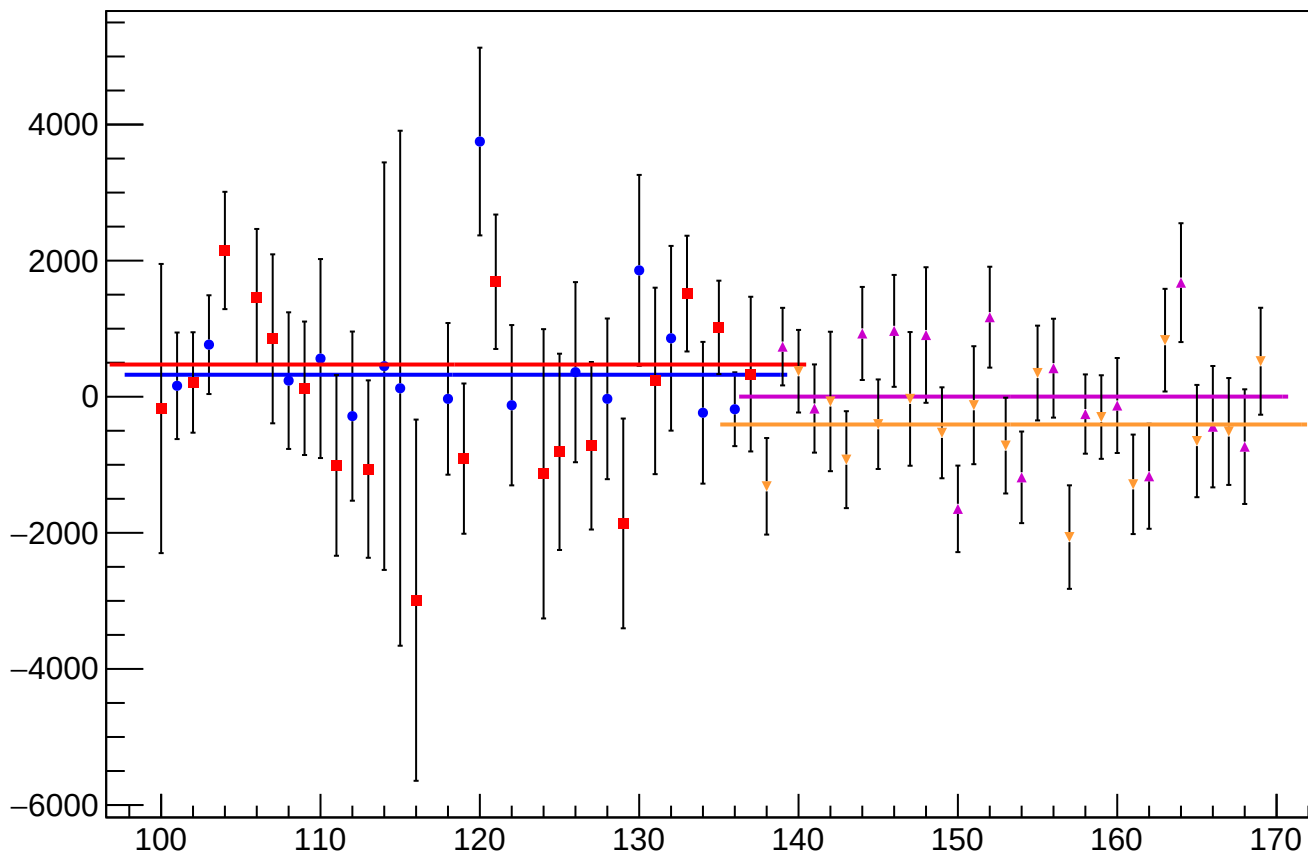
Right: 690.100+/-0.131 χ^2/NDF : 1528298.1/34

In: 671.057+/-0.109 χ^2/NDF : 1200776.4/30

Out: 667.465+/-0.105 χ^2/NDF : 1081289.0/35

All: 669.193+/-0.076 χ^2/NDF : 2282628.4/66

asym_sam_15_dd_mean vs Slug, Sign Corrected



Right In: 323.198+/-262.332 χ^2/NDF : 9.7/15

Left Out: -407.782+/-178.637 χ^2/NDF :16.0/16

Right Out: 473.233+/-251.330 χ^2/NDF : 19.4/18

Left In: 1.930+/-185.266 χ^2/NDF :25.6/14

Left: -210.387+/-128.595 χ^2/NDF : 44.2/31

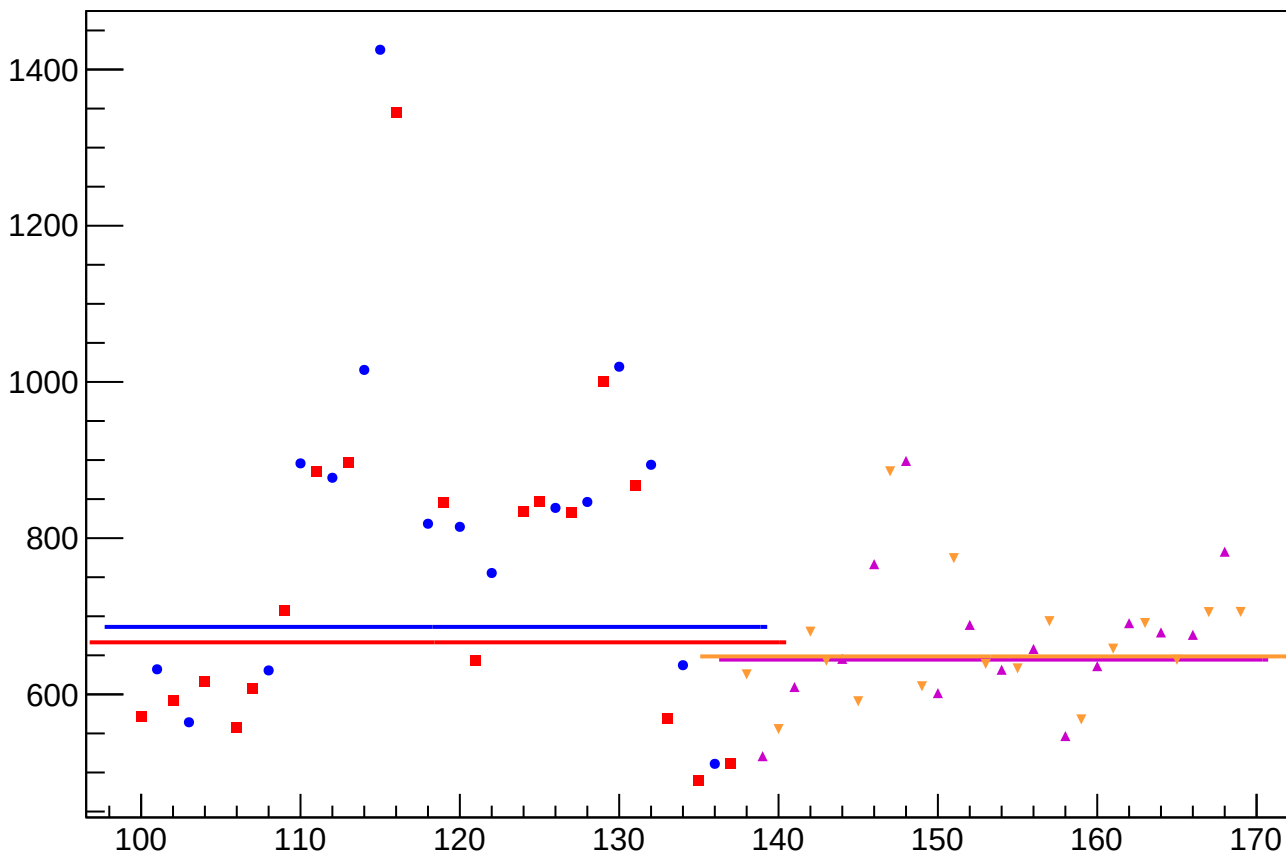
Right: 401.428+/-181.482 χ^2/NDF : 29.3/34

In: 108.842+/-151.332 χ^2/NDF :36.4/30

Out: -112.085+/-145.605 χ^2/NDF :43.6/35

All: -5.881+/-104.924 χ^2/NDF : 81.0/66

asym_sam_15_dd_rms vs Slug, Sign Corrected



Right In: 686.394 $\pm$ 0.185 χ^2 /NDF: 749454.8/15

Left Out: 648.602 $\pm$ 0.126 χ^2 /NDF: 302015.9/16

Right Out: 666.634 $\pm$ 0.178 χ^2 /NDF: 777033.6/18

Left In: 644.517 $\pm$ 0.131 χ^2 /NDF: 415863.8/14

Left: 646.634 $\pm$ 0.091 χ^2 /NDF: 718383.7/31

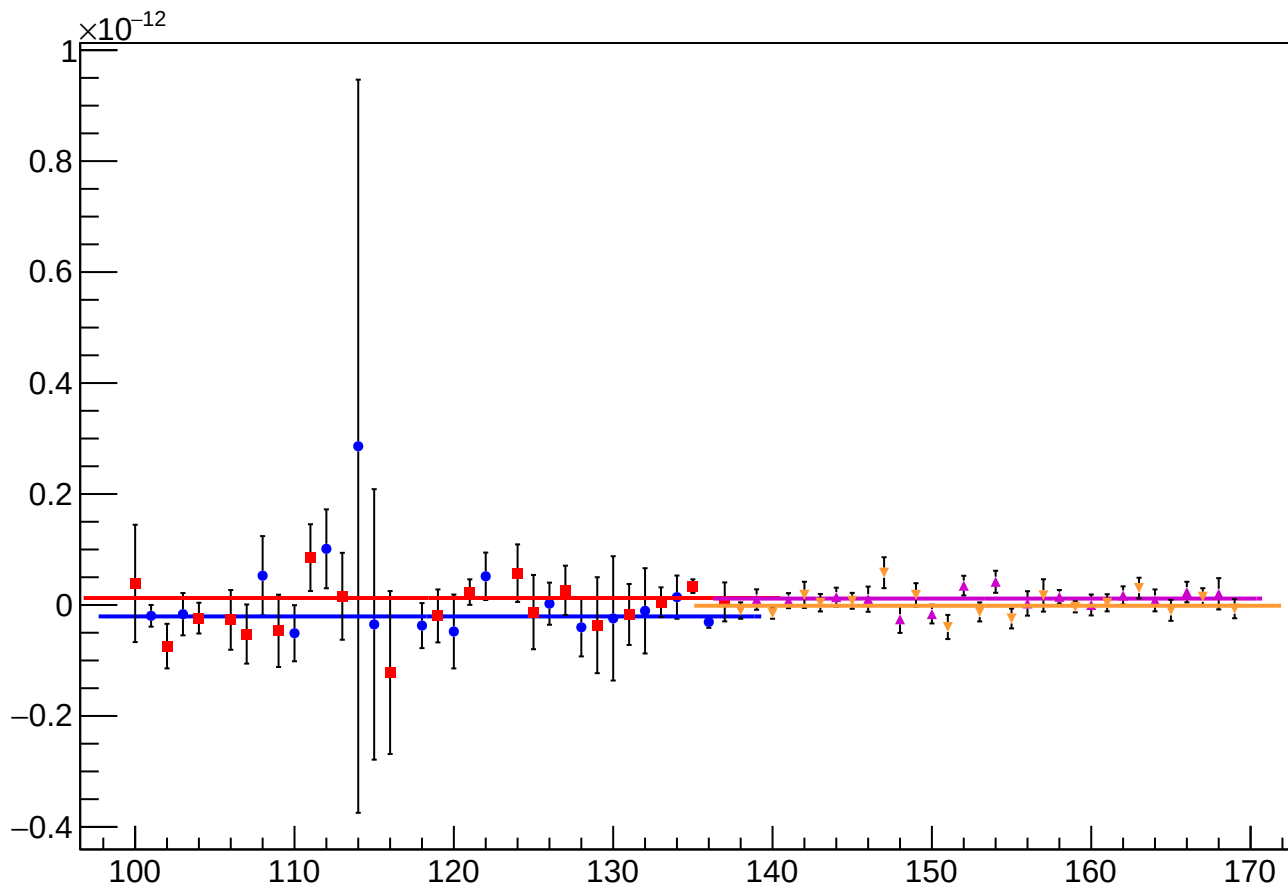
Right: 676.091 $\pm$ 0.128 χ^2 /NDF: 1532404.9/34

In: 658.453 $\pm$ 0.107 χ^2 /NDF: 1199324.5/30

Out: 654.654 $\pm$ 0.103 χ^2 /NDF: 1085889.5/35

All: 656.480 $\pm$ 0.074 χ^2 /NDF: 2285868.3/66

asym_sam_15_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 10.0/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 18.8/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 17.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 10.4/14

Left: 0.000 ± 0.000 χ^2/NDF : 33.8/31

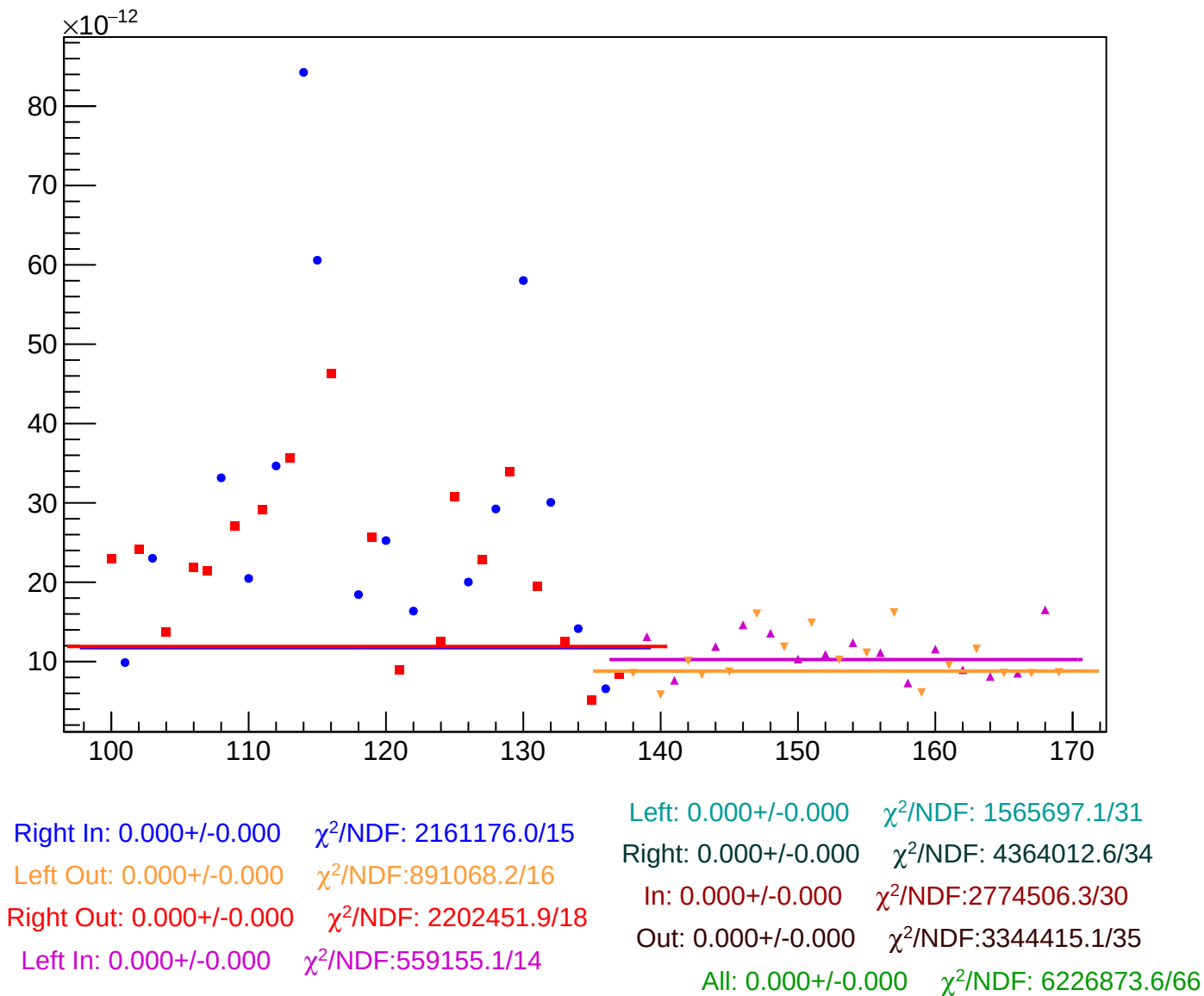
Right: -0.000 ± 0.000 χ^2/NDF : 36.0/34

In: 0.000 ± 0.000 χ^2/NDF : 32.9/30

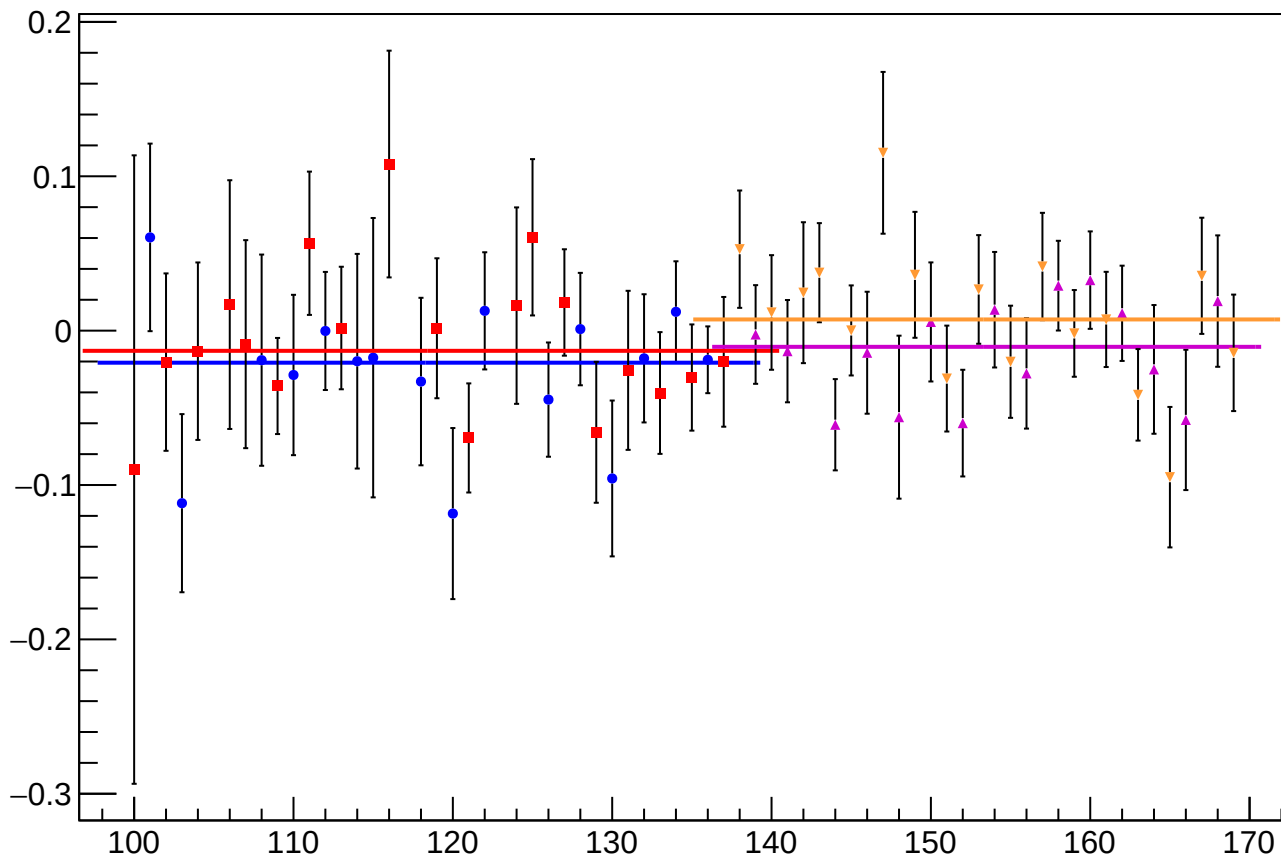
Out: 0.000 ± 0.000 χ^2/NDF : 38.4/35

All: 0.000 ± 0.000 χ^2/NDF : 71.4/66

asym_sam_15_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



asym_sam_15_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 0.007 ± 0.009 $\chi^2/\text{NDF}: 19.1/16$

Right Out: -0.013 ± 0.011 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.010 ± 0.009 $\chi^2/\text{NDF}: 12.5/14$

Left: -0.001 ± 0.006 $\chi^2/\text{NDF}: 33.7/31$

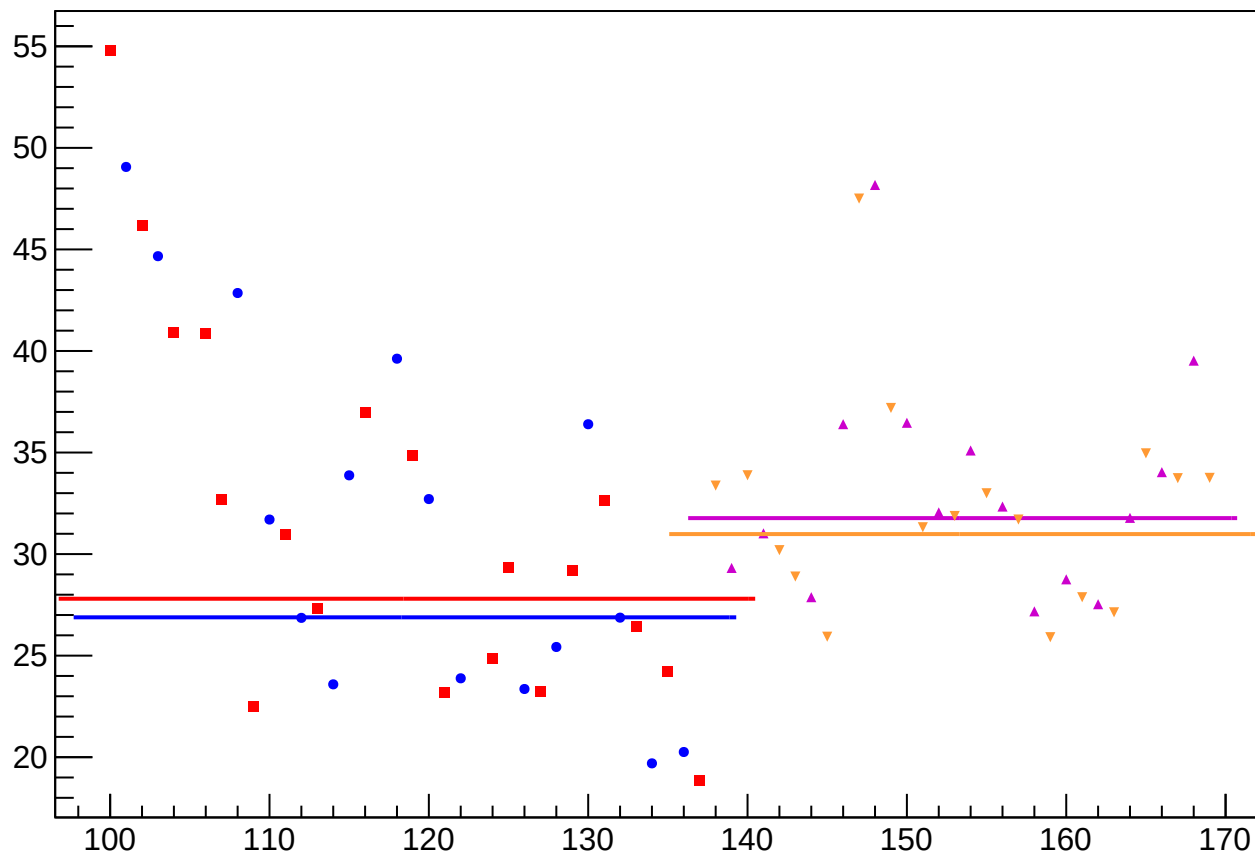
Right: -0.017 ± 0.007 $\chi^2/\text{NDF}: 26.7/34$

In: -0.015 ± 0.007 $\chi^2/\text{NDF}: 25.6/30$

Out: -0.001 ± 0.007 $\chi^2/\text{NDF}: 35.3/35$

All: -0.008 ± 0.005 $\chi^2/\text{NDF}: 63.0/66$

asym_sam_15_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 26.886 $\pm$ 0.007 χ^2/NDF : 1120557.7/15

Left Out: 30.985 $\pm$ 0.006 χ^2/NDF : 498795.4/16

Right Out: 27.802 $\pm$ 0.007 χ^2/NDF : 763106.1/18

Left In: 31.771 $\pm$ 0.006 χ^2/NDF : 491248.9/14

Left: 31.351 $\pm$ 0.004 χ^2/NDF : 997881.7/31

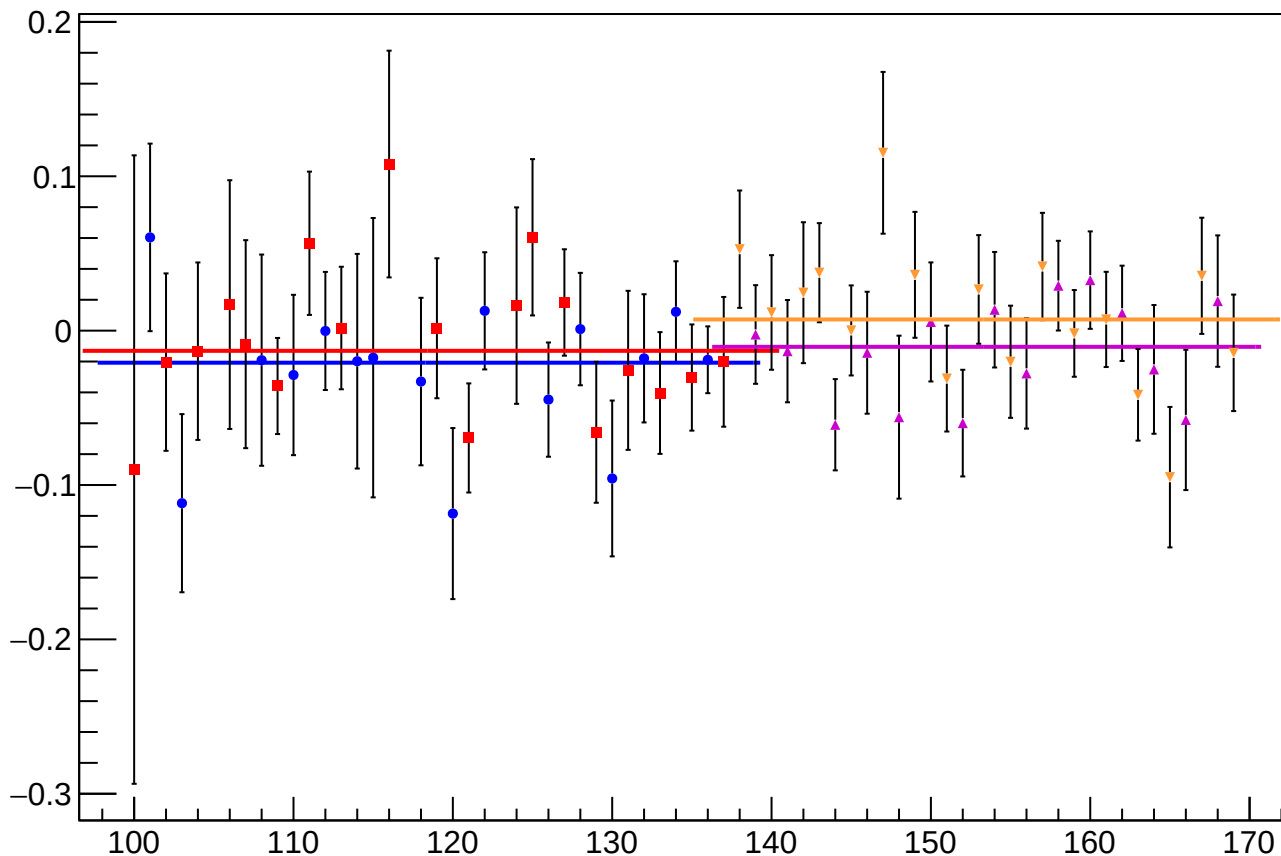
Right: 27.342 $\pm$ 0.005 χ^2/NDF : 1891228.7/34

In: 29.659 $\pm$ 0.005 χ^2/NDF : 1857100.0/30

Out: 29.717 $\pm$ 0.005 χ^2/NDF : 1371632.0/35

All: 29.689 $\pm$ 0.003 χ^2/NDF : 3228806.3/66

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 χ^2/NDF : 12.5/15

Left Out: 0.007 ± 0.009 χ^2/NDF : 19.1/16

Right Out: -0.013 ± 0.011 χ^2/NDF : 13.9/18

Left In: -0.010 ± 0.009 χ^2/NDF : 12.5/14

Left: -0.001 ± 0.006 χ^2/NDF : 33.7/31

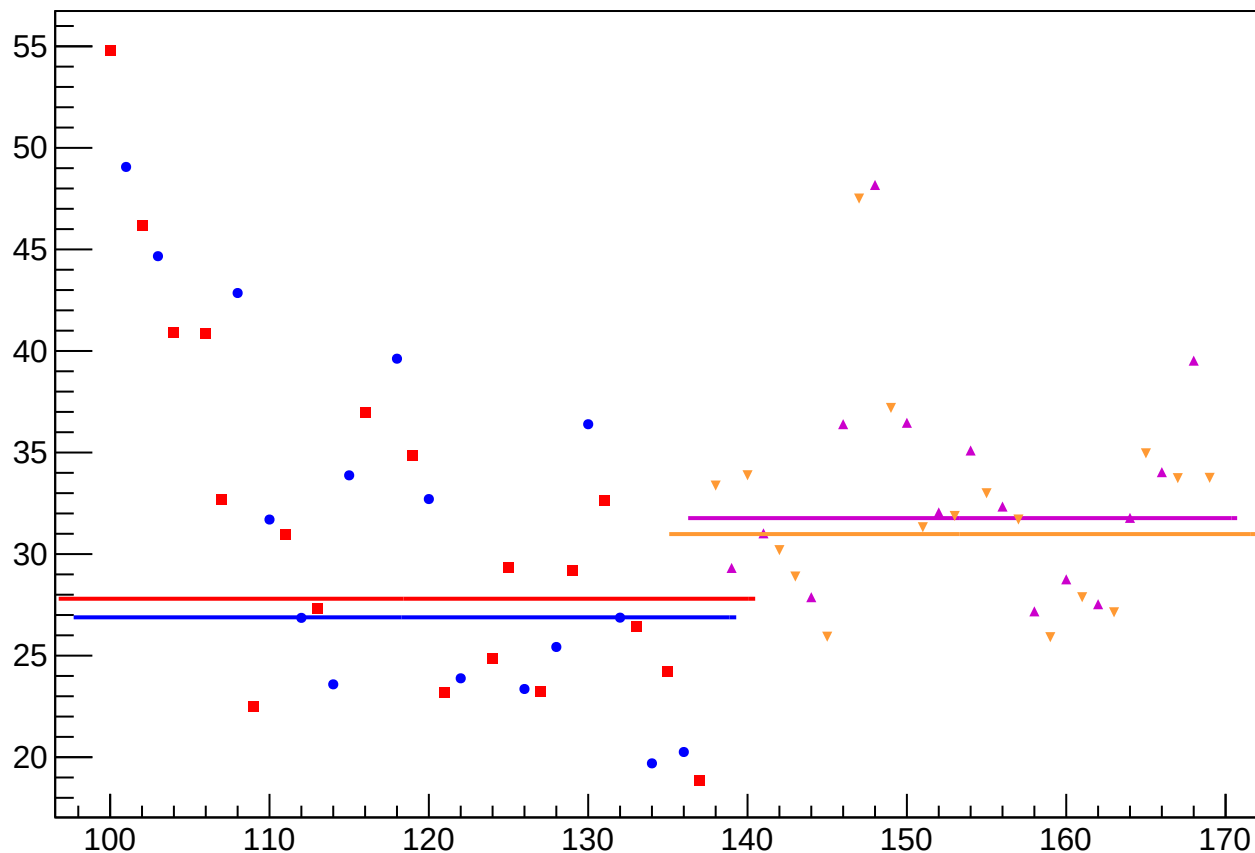
Right: -0.017 ± 0.007 χ^2/NDF : 26.7/34

In: -0.015 ± 0.007 χ^2/NDF : 25.6/30

Out: -0.001 ± 0.007 χ^2/NDF : 35.3/35

All: -0.008 ± 0.005 χ^2/NDF : 63.0/66

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 26.886 $\pm$ 0.007 χ^2/NDF : 1120557.7/15

Left Out: 30.985 $\pm$ 0.006 χ^2/NDF : 498795.4/16

Right Out: 27.802 $\pm$ 0.007 χ^2/NDF : 763106.1/18

Left In: 31.771 $\pm$ 0.006 χ^2/NDF : 491248.9/14

Left: 31.351 $\pm$ 0.004 χ^2/NDF : 997881.7/31

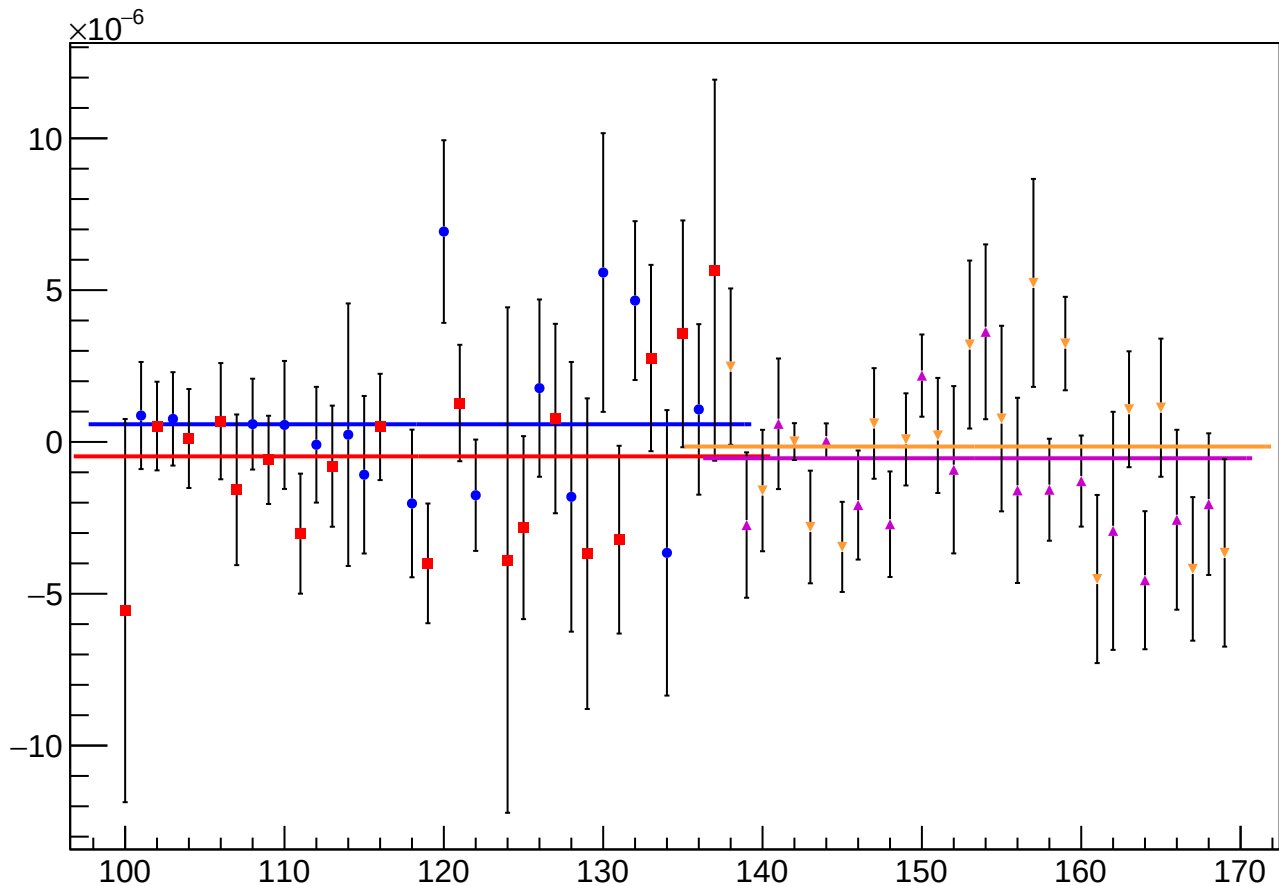
Right: 27.342 $\pm$ 0.005 χ^2/NDF : 1891228.7/34

In: 29.659 $\pm$ 0.005 χ^2/NDF : 1857100.0/30

Out: 29.717 $\pm$ 0.005 χ^2/NDF : 1371632.0/35

All: 29.689 $\pm$ 0.003 χ^2/NDF : 3228806.3/66

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12.7/15

Left Out: -0.000+/-0.000 χ^2/NDF : 25.2/16

Right Out: -0.000+/-0.000 χ^2/NDF : 13.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 15.6/14

Left: -0.000+/-0.000 χ^2/NDF : 41.3/31

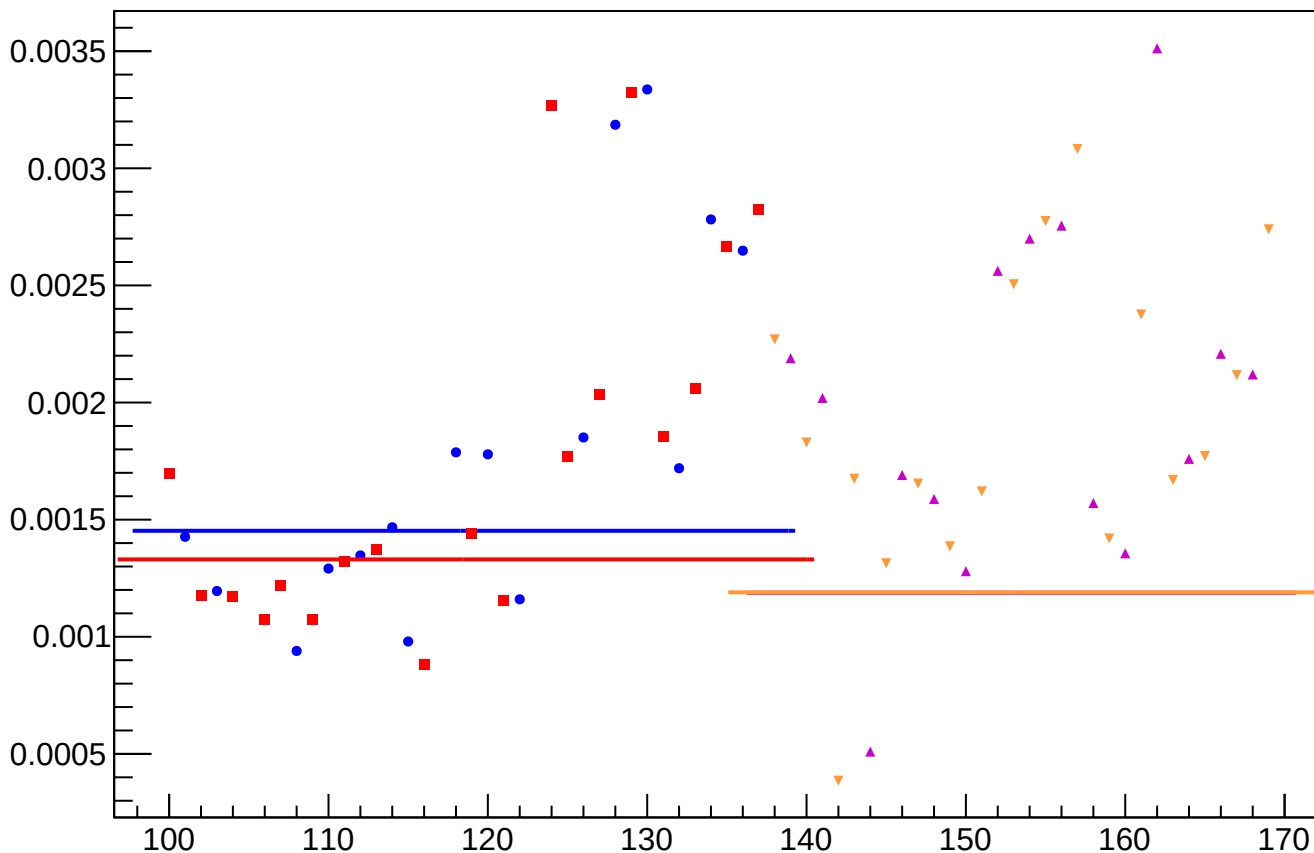
Right: -0.000+/-0.000 χ^2/NDF : 27.8/34

In: -0.000+/-0.000 χ^2/NDF : 30.9/30

Out: -0.000+/-0.000 χ^2/NDF : 38.6/35

All: -0.000+/-0.000 χ^2/NDF : 69.6/66

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 1710487.9/15

Left Out: 0.001+/-0.000 χ^2/NDF : 7580515.2/16

Right Out: 0.001+/-0.000 χ^2/NDF : 1402821.5/18

Left In: 0.001+/-0.000 χ^2/NDF : 6709007.3/14

Left: 0.001+/-0.000 χ^2/NDF : 14289551.4/31

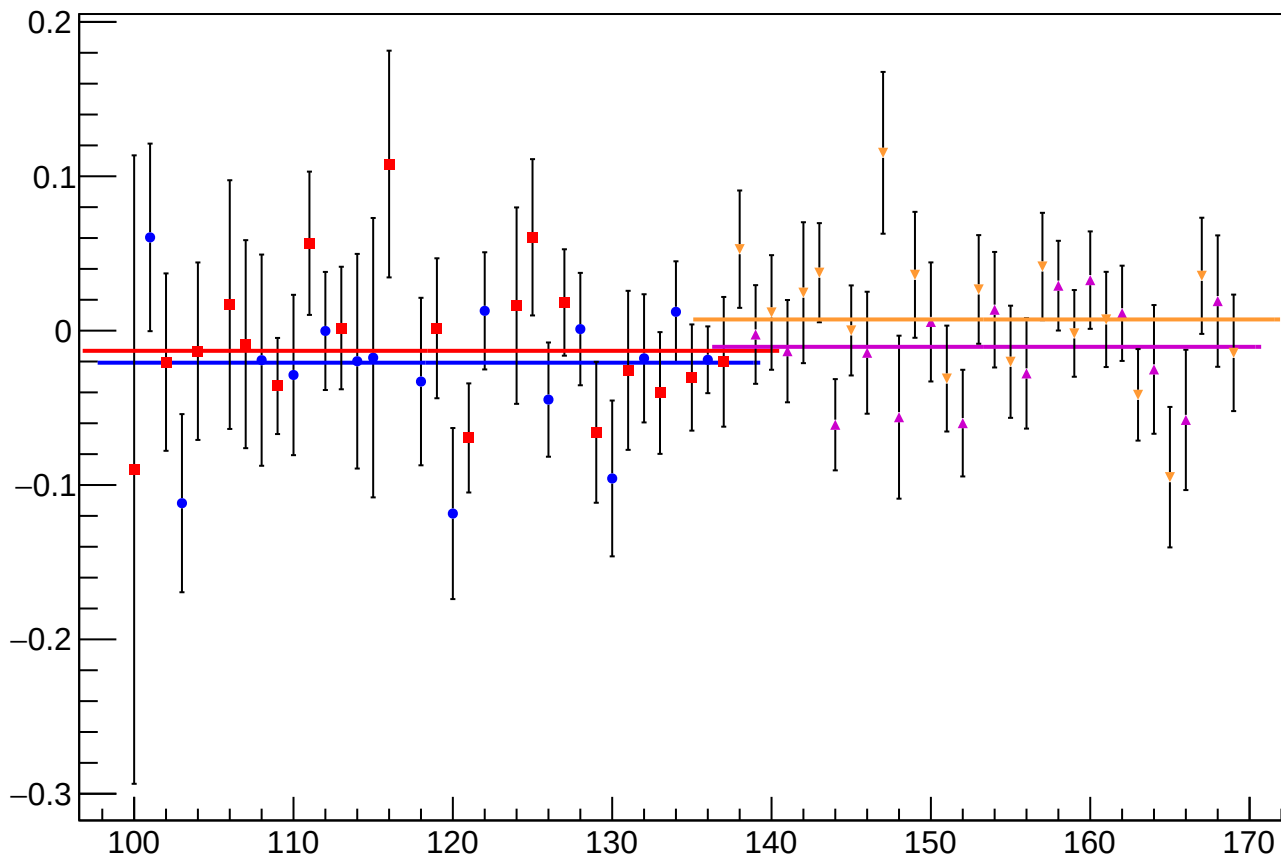
Right: 0.001+/-0.000 χ^2/NDF : 3162860.5/34

In: 0.001+/-0.000 χ^2/NDF : 8703590.2/30

Out: 0.001+/-0.000 χ^2/NDF : 9076787.4/35

All: 0.001+/-0.000 χ^2/NDF : 17790959.7/66

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 0.007 ± 0.009 $\chi^2/\text{NDF}: 19.1/16$

Right Out: -0.013 ± 0.011 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.010 ± 0.009 $\chi^2/\text{NDF}: 12.5/14$

Left: -0.001 ± 0.006 $\chi^2/\text{NDF}: 33.7/31$

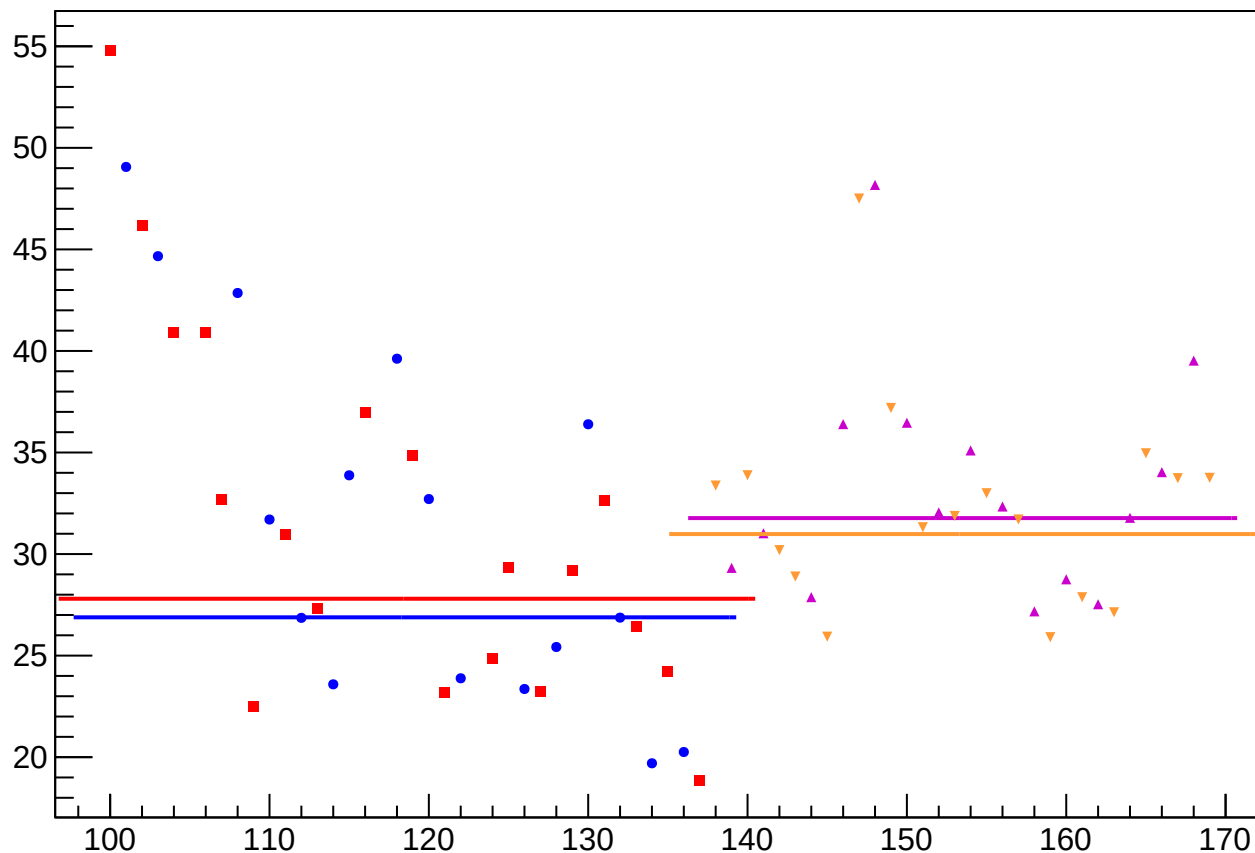
Right: -0.017 ± 0.007 $\chi^2/\text{NDF}: 26.7/34$

In: -0.015 ± 0.007 $\chi^2/\text{NDF}: 25.6/30$

Out: -0.001 ± 0.007 $\chi^2/\text{NDF}: 35.3/35$

All: -0.008 ± 0.005 $\chi^2/\text{NDF}: 63.0/66$

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 26.885 ± 0.007 $\chi^2/\text{NDF}: 1120567.7/15$

Left Out: 30.985 ± 0.006 $\chi^2/\text{NDF}: 498919.5/16$

Right Out: 27.800 ± 0.007 $\chi^2/\text{NDF}: 763213.5/18$

Left In: 31.771 ± 0.006 $\chi^2/\text{NDF}: 491346.1/14$

Left: 31.351 ± 0.004 $\chi^2/\text{NDF}: 998102.7/31$

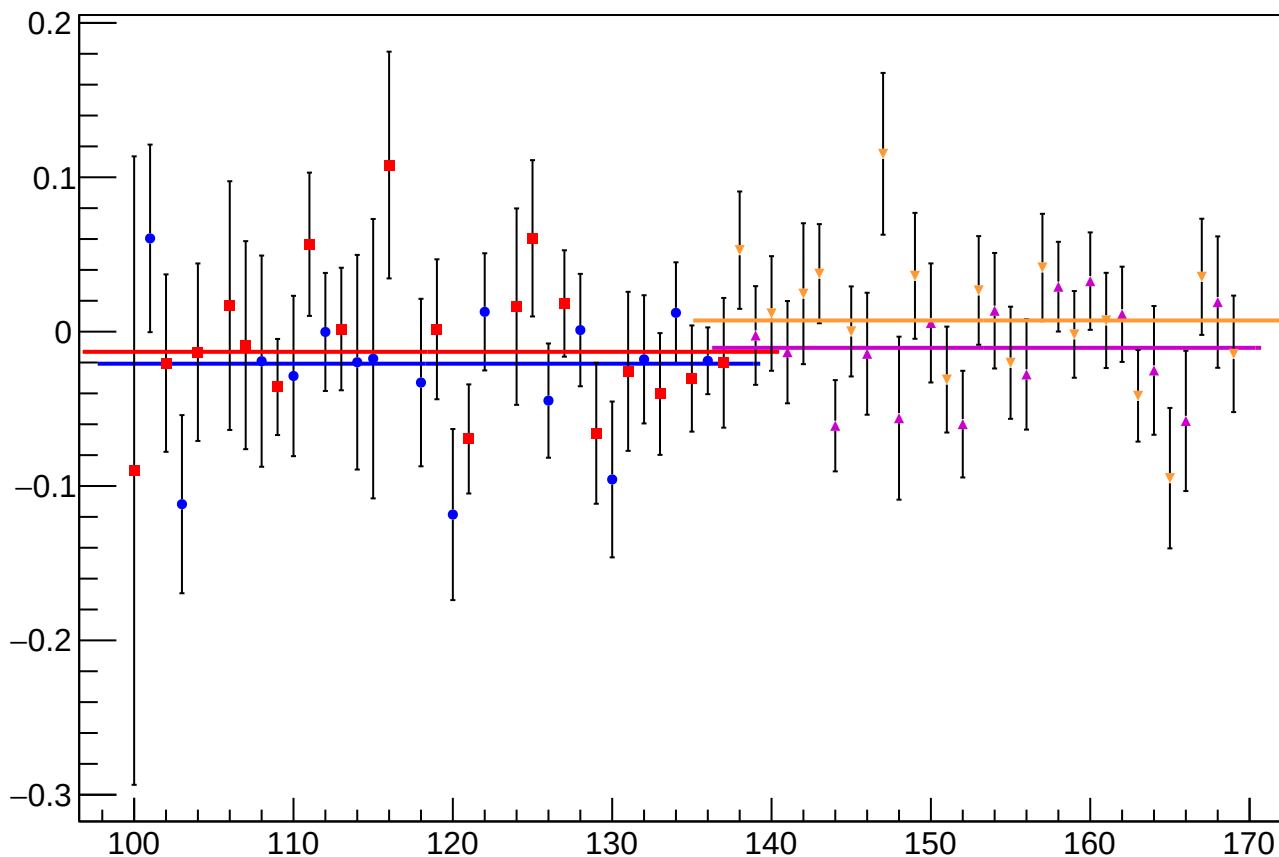
Right: 27.341 ± 0.005 $\chi^2/\text{NDF}: 1891338.8/34$

In: 29.658 ± 0.005 $\chi^2/\text{NDF}: 1857290.6/30$

Out: 29.717 ± 0.005 $\chi^2/\text{NDF}: 1371954.6/35$

All: 29.689 ± 0.003 $\chi^2/\text{NDF}: 3229319.1/66$

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.021 ± 0.011 $\chi^2/\text{NDF}: 12.5/15$

Left Out: 0.007 ± 0.009 $\chi^2/\text{NDF}: 19.1/16$

Right Out: -0.013 ± 0.011 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.010 ± 0.009 $\chi^2/\text{NDF}: 12.5/14$

Left: -0.001 ± 0.006 $\chi^2/\text{NDF}: 33.7/31$

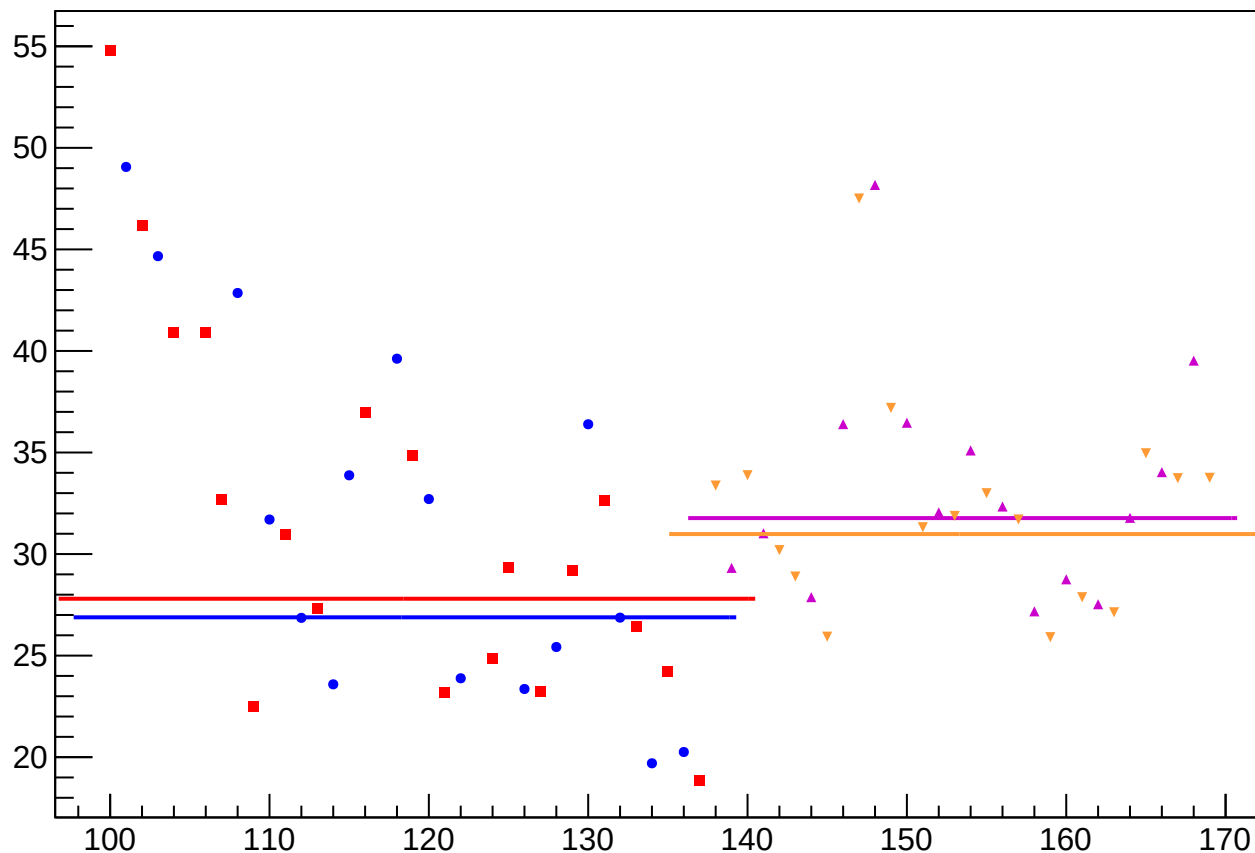
Right: -0.017 ± 0.007 $\chi^2/\text{NDF}: 26.7/34$

In: -0.015 ± 0.007 $\chi^2/\text{NDF}: 25.6/30$

Out: -0.001 ± 0.007 $\chi^2/\text{NDF}: 35.3/35$

All: -0.008 ± 0.005 $\chi^2/\text{NDF}: 63.0/66$

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 26.885+/-0.007 χ^2/NDF : 1120567.7/15

Left Out: 30.985+/-0.006 χ^2/NDF : 498919.5/16

Right Out: 27.800+/-0.007 χ^2/NDF : 763213.5/18

Left In: 31.771+/-0.006 χ^2/NDF : 491346.1/14

Left: 31.351+/-0.004 χ^2/NDF : 998102.7/31

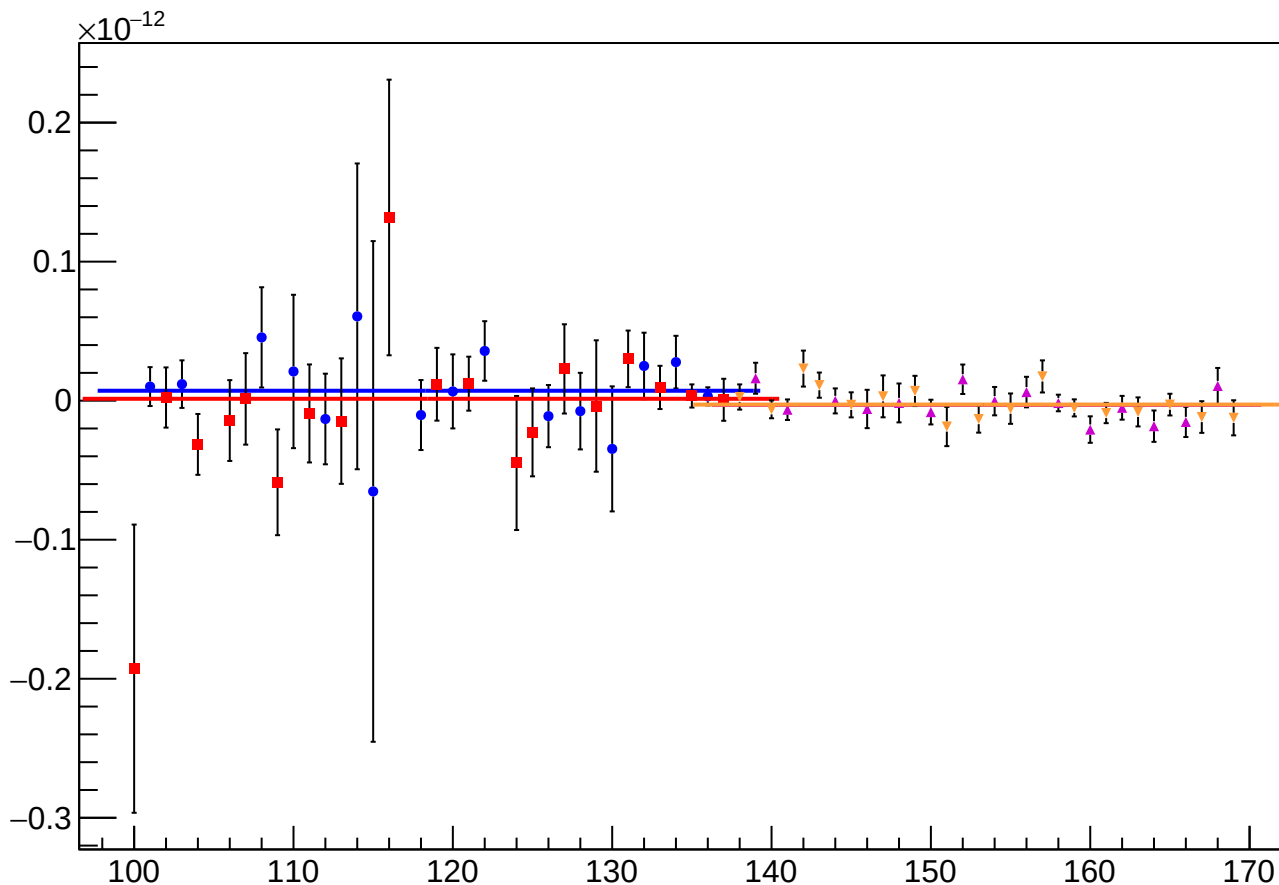
Right: 27.341+/-0.005 χ^2/NDF : 1891338.8/34

In: 29.658+/-0.005 χ^2/NDF : 1857290.6/30

Out: 29.717+/-0.005 χ^2/NDF : 1371954.6/35

All: 29.689+/-0.003 χ^2/NDF : 3229319.1/66

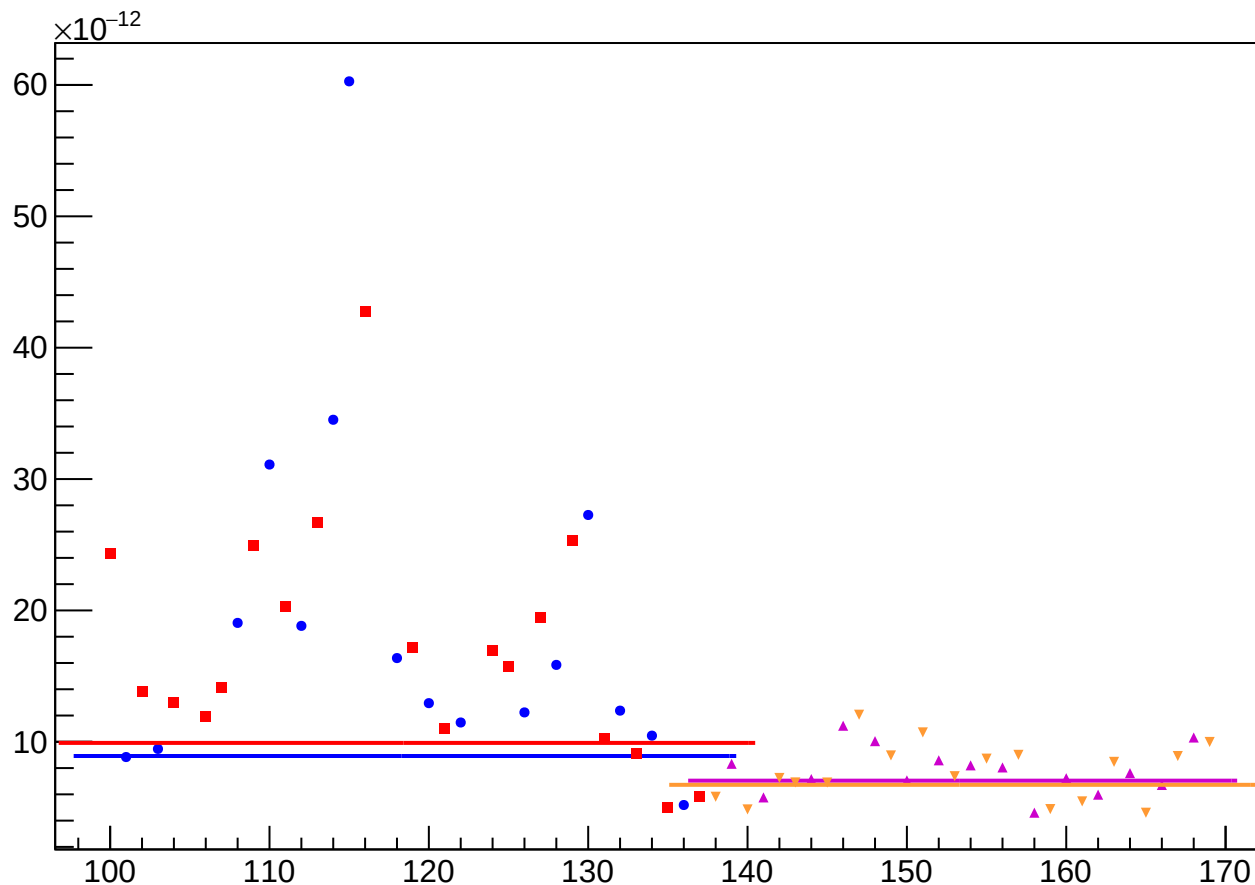
asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 8.3/15
 Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:15.8/16
 Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 15.2/18
 Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:15.3/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 31.1/31
 Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 24.3/34
 In: -0.000 $\pm$ 0.000 χ^2 /NDF:27.5/30
 Out: -0.000 $\pm$ 0.000 χ^2 /NDF:31.7/35
 All: -0.000 $\pm$ 0.000 χ^2 /NDF: 59.3/66

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2402804.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :1497158.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2669812.1/18

Left In: 0.000+/-0.000 χ^2/NDF :950301.0/14

Left: 0.000+/-0.000 χ^2/NDF : 2465335.8/31

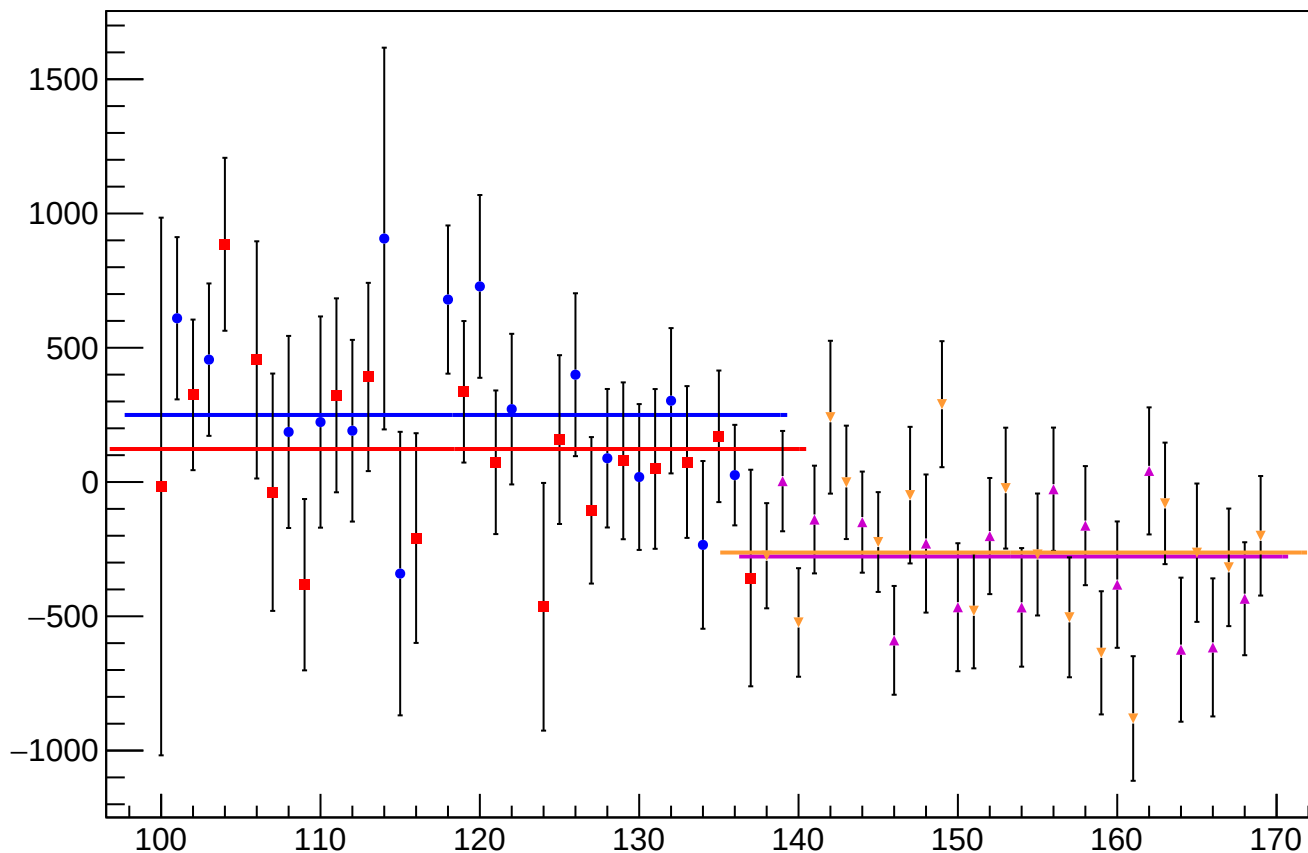
Right: 0.000+/-0.000 χ^2/NDF : 5116378.6/34

In: 0.000+/-0.000 χ^2/NDF :3613598.4/30

Out: 0.000+/-0.000 χ^2/NDF :4855341.0/35

All: 0.000+/-0.000 χ^2/NDF : 8477053.2/66

reg_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 249.761 $\pm$ 74.877 χ^2 /NDF: 13.8/15

Left Out: -262.562 $\pm$ 54.069 χ^2 /NDF:26.5/16

Right Out: 122.993 $\pm$ 74.370 χ^2 /NDF: 15.6/18

Left In: -277.318 $\pm$ 57.022 χ^2 /NDF:14.5/14

Left: -269.548 $\pm$ 39.235 χ^2 /NDF: 41.1/31

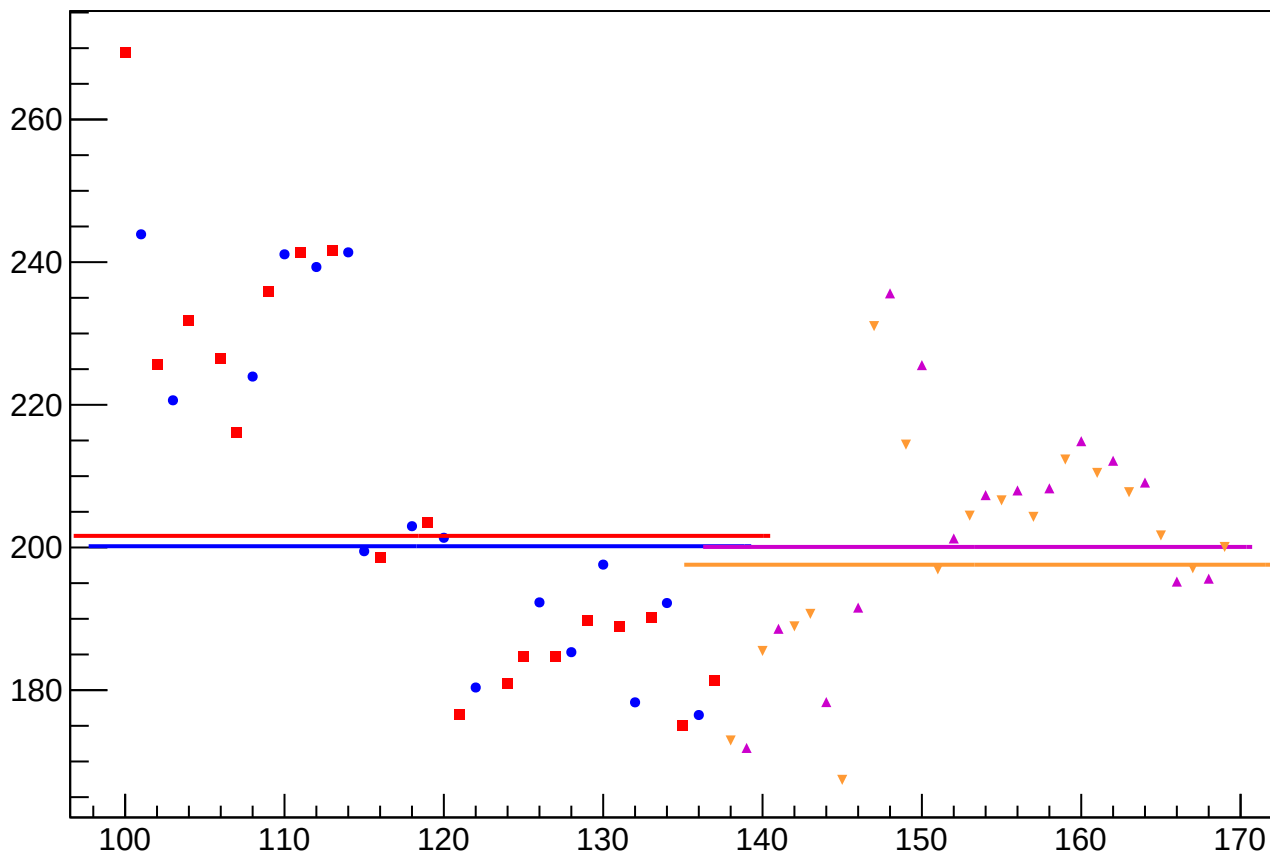
Right: 185.946 $\pm$ 52.766 χ^2 /NDF: 30.8/34

In: -83.844 $\pm$ 45.365 χ^2 /NDF:59.6/30

Out: -129.239 $\pm$ 43.733 χ^2 /NDF:59.6/35

All: -107.373 $\pm$ 31.485 χ^2 /NDF: 119.8/66

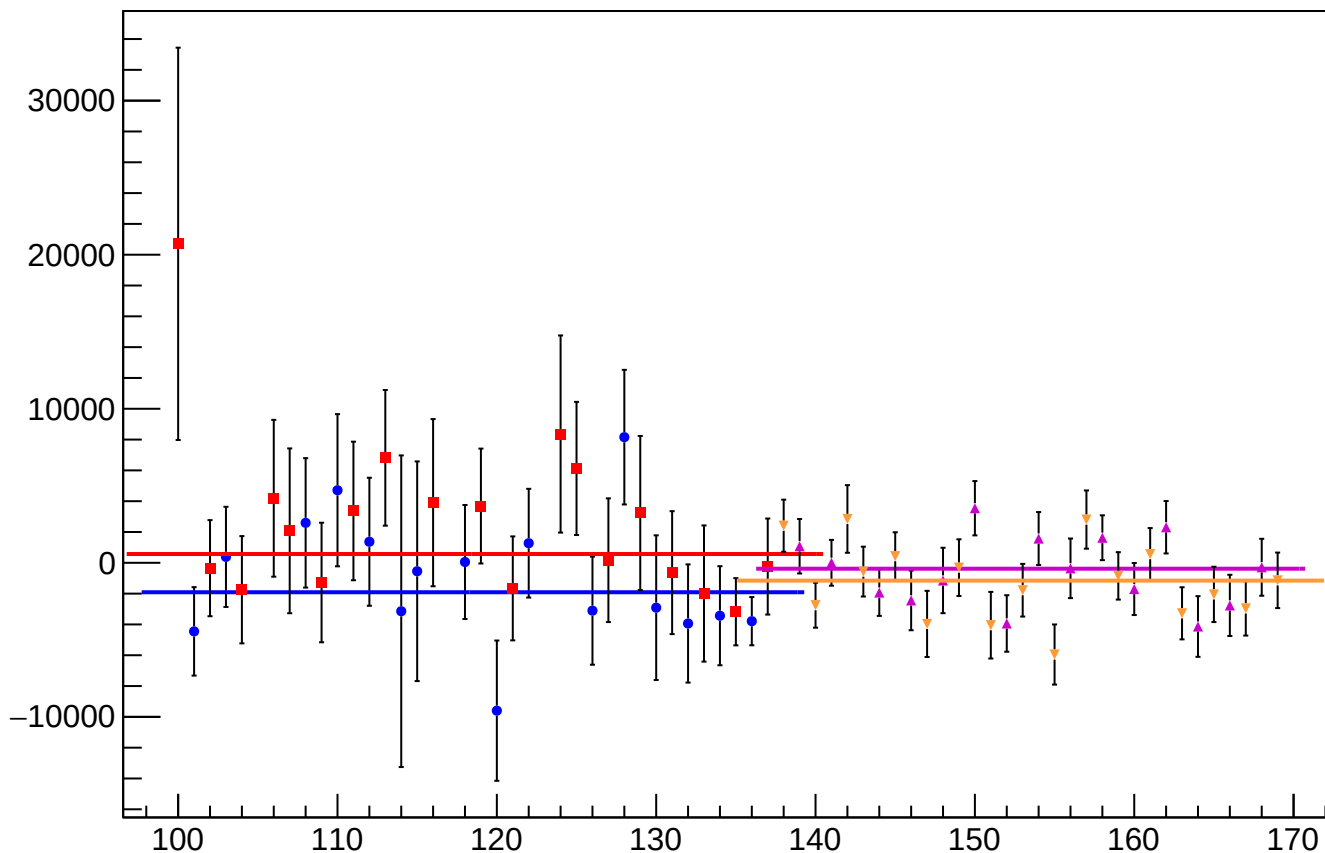
reg_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 200.177 ± 0.053 $\chi^2/\text{NDF}: 181001.3/15$
 Left Out: 197.584 ± 0.038 $\chi^2/\text{NDF}: 166431.3/16$
 Right Out: 201.627 ± 0.053 $\chi^2/\text{NDF}: 197245.7/18$
 Left In: 200.079 ± 0.040 $\chi^2/\text{NDF}: 167710.1/14$

Left: 198.765 ± 0.028 $\chi^2/\text{NDF}: 336157.2/31$
 Right: 200.907 ± 0.037 $\chi^2/\text{NDF}: 378624.7/34$
 In: 200.115 ± 0.032 $\chi^2/\text{NDF}: 348713.7/30$
 Out: 198.982 ± 0.031 $\chi^2/\text{NDF}: 367544.3/35$
 All: 199.528 ± 0.022 $\chi^2/\text{NDF}: 716904.2/66$

asym_sam_26_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -1910.348 $\pm$ 859.088 χ^2 /NDF: 16.3/15

Left Out: -1154.776 $\pm$ 426.539 χ^2 /NDF: 28.4/16

Right Out: 570.946 $\pm$ 900.451 χ^2 /NDF: 14.6/18

Left In: -382.806 $\pm$ 452.041 χ^2 /NDF: 23.2/14

Left: -791.179 $\pm$ 310.233 χ^2 /NDF: 53.1/31

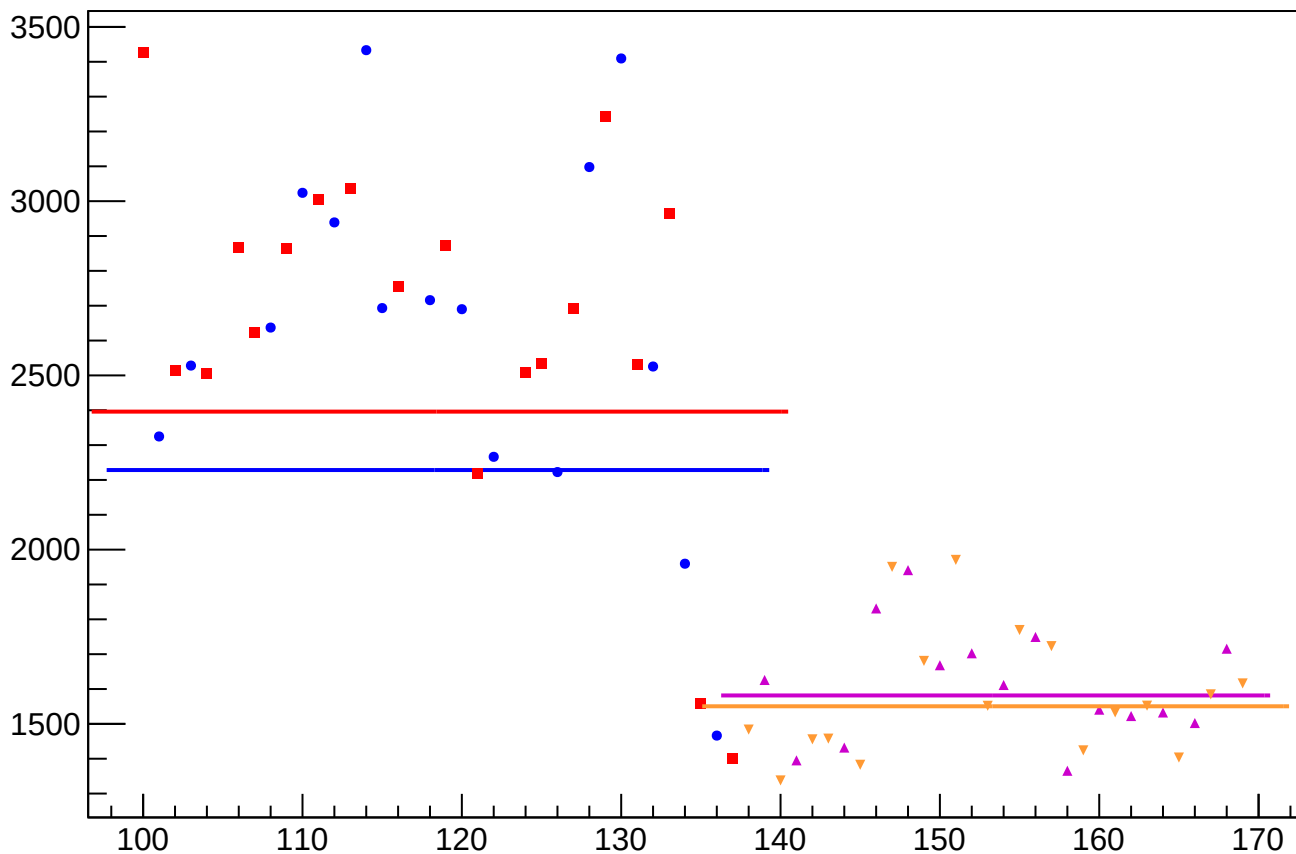
Right: -728.000 $\pm$ 621.575 χ^2 /NDF: 34.9/34

In: -714.034 $\pm$ 400.041 χ^2 /NDF: 41.9/30

Out: -838.512 $\pm$ 385.478 χ^2 /NDF: 46.0/35

All: -778.580 $\pm$ 277.580 χ^2 /NDF: 87.9/66

asym_sam_26_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 2228.431+/-0.607 χ^2/NDF : 947654.8/15

Left Out: 1550.460+/-0.302 χ^2/NDF : 306731.1/16

Right Out: 2396.080+/-0.637 χ^2/NDF : 799442.5/18

Left In: 1581.560+/-0.320 χ^2/NDF : 234627.0/14

Left: 1565.108+/-0.219 χ^2/NDF : 546365.9/31

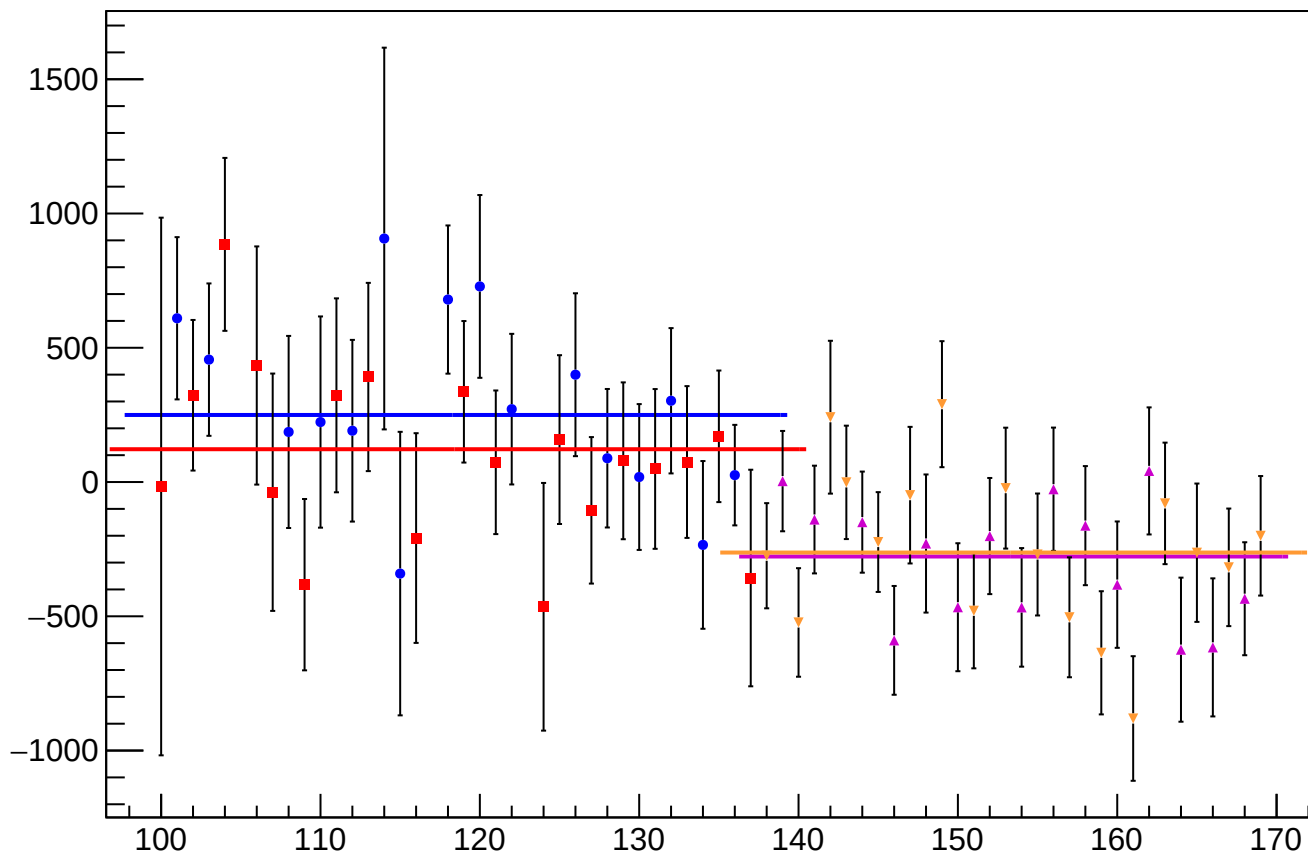
Right: 2308.317+/-0.440 χ^2/NDF : 1783390.1/34

In: 1721.825+/-0.283 χ^2/NDF : 2070343.7/30

Out: 1705.432+/-0.273 χ^2/NDF : 2546764.7/35

All: 1713.325+/-0.196 χ^2/NDF : 4618849.8/66

cor_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 249.764 $\pm$ 74.877 χ^2 /NDF: 13.8/15

Left Out: -262.559 $\pm$ 54.069 χ^2 /NDF:26.5/16

Right Out: 122.210 $\pm$ 74.380 χ^2 /NDF: 15.5/18

Left In: -277.319 $\pm$ 57.022 χ^2 /NDF:14.5/14

Left: -269.547 $\pm$ 39.235 χ^2 /NDF: 41.1/31

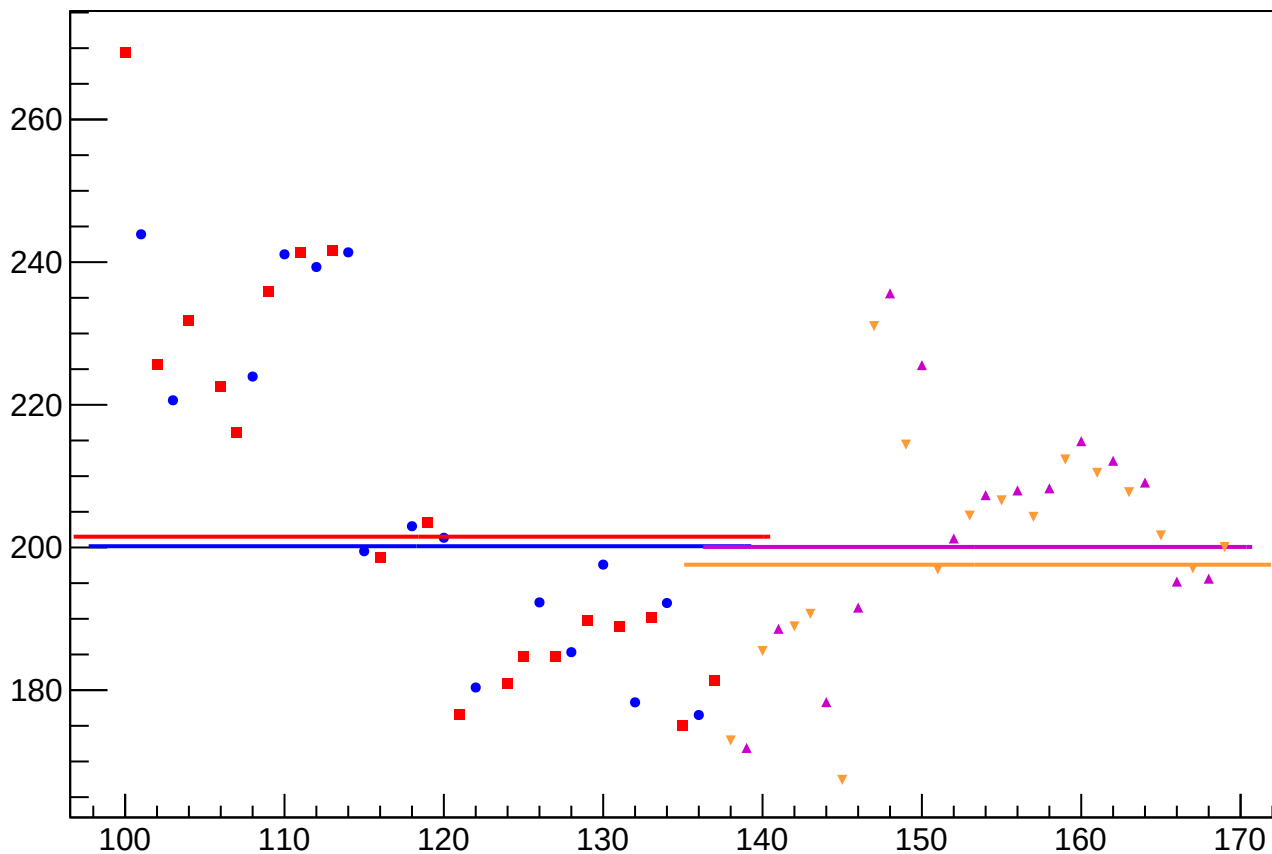
Right: 185.562 $\pm$ 52.770 χ^2 /NDF: 30.7/34

In: -83.843 $\pm$ 45.365 χ^2 /NDF:59.7/30

Out: -129.532 $\pm$ 43.735 χ^2 /NDF:59.5/35

All: -107.524 $\pm$ 31.486 χ^2 /NDF: 119.6/66

cor_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 200.177 $\pm$ 0.053 χ^2 /NDF: 181001.6/15

Left Out: 197.584 $\pm$ 0.038 χ^2 /NDF:166431.3/16

Right Out: 201.514 $\pm$ 0.053 χ^2 /NDF: 195431.2/18

Left In: 200.079 $\pm$ 0.040 χ^2 /NDF:167710.1/14

Left: 198.765 $\pm$ 0.028 χ^2 /NDF: 336157.2/31

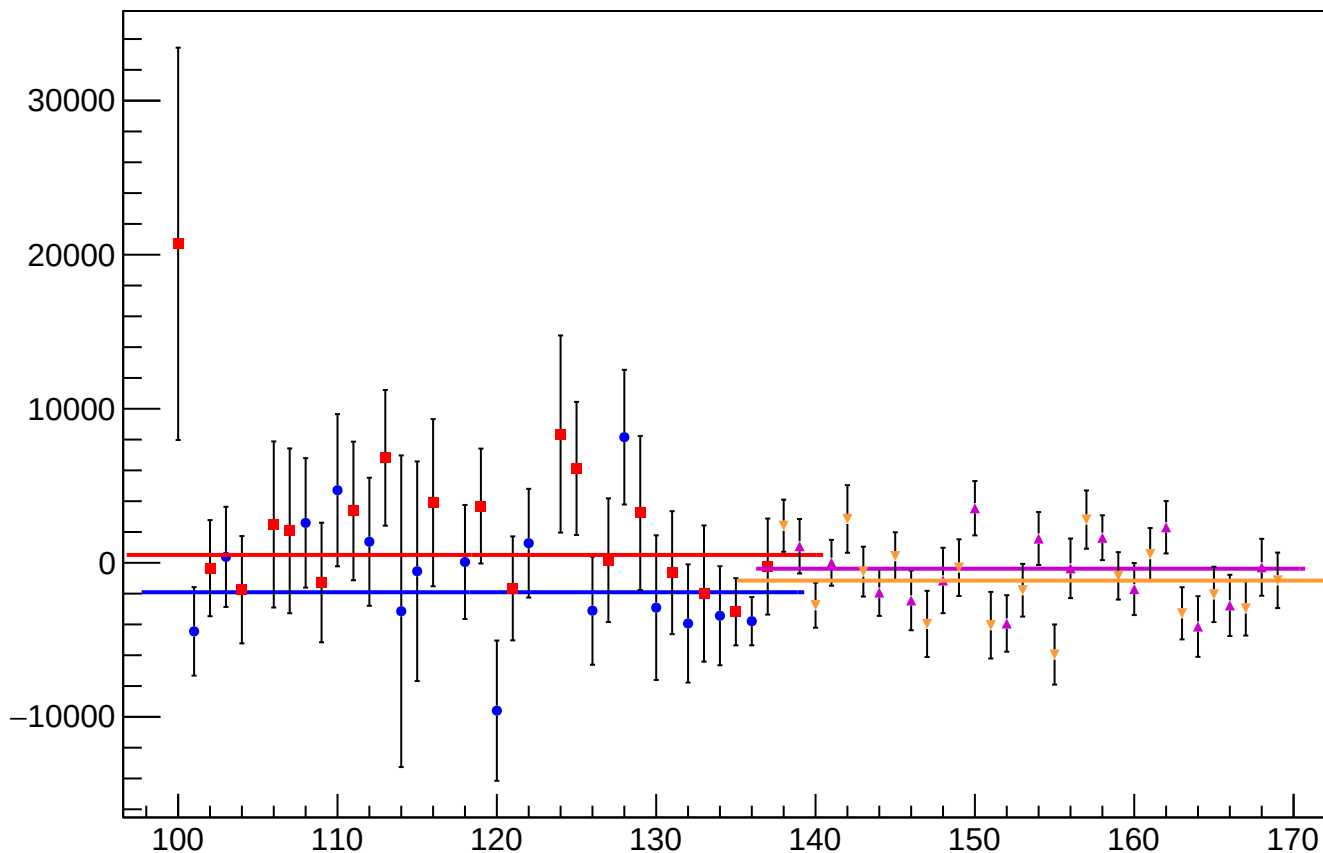
Right: 200.850 $\pm$ 0.037 χ^2 /NDF: 376754.0/34

In: 200.115 $\pm$ 0.032 χ^2 /NDF:348714.0/30

Out: 198.943 $\pm$ 0.031 χ^2 /NDF:365516.4/35

All: 199.507 $\pm$ 0.022 χ^2 /NDF: 714922.1/66

asym_sam_26_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -1910.310+/-859.089 χ^2/NDF : 16.3/15

Left Out: -1154.775+/-426.540 χ^2/NDF : 28.4/16

Right Out: 511.276+/-902.014 χ^2/NDF : 14.2/18

Left In: -382.800+/-452.041 χ^2/NDF : 23.2/14

Left: -791.176+/-310.233 χ^2/NDF : 53.1/31

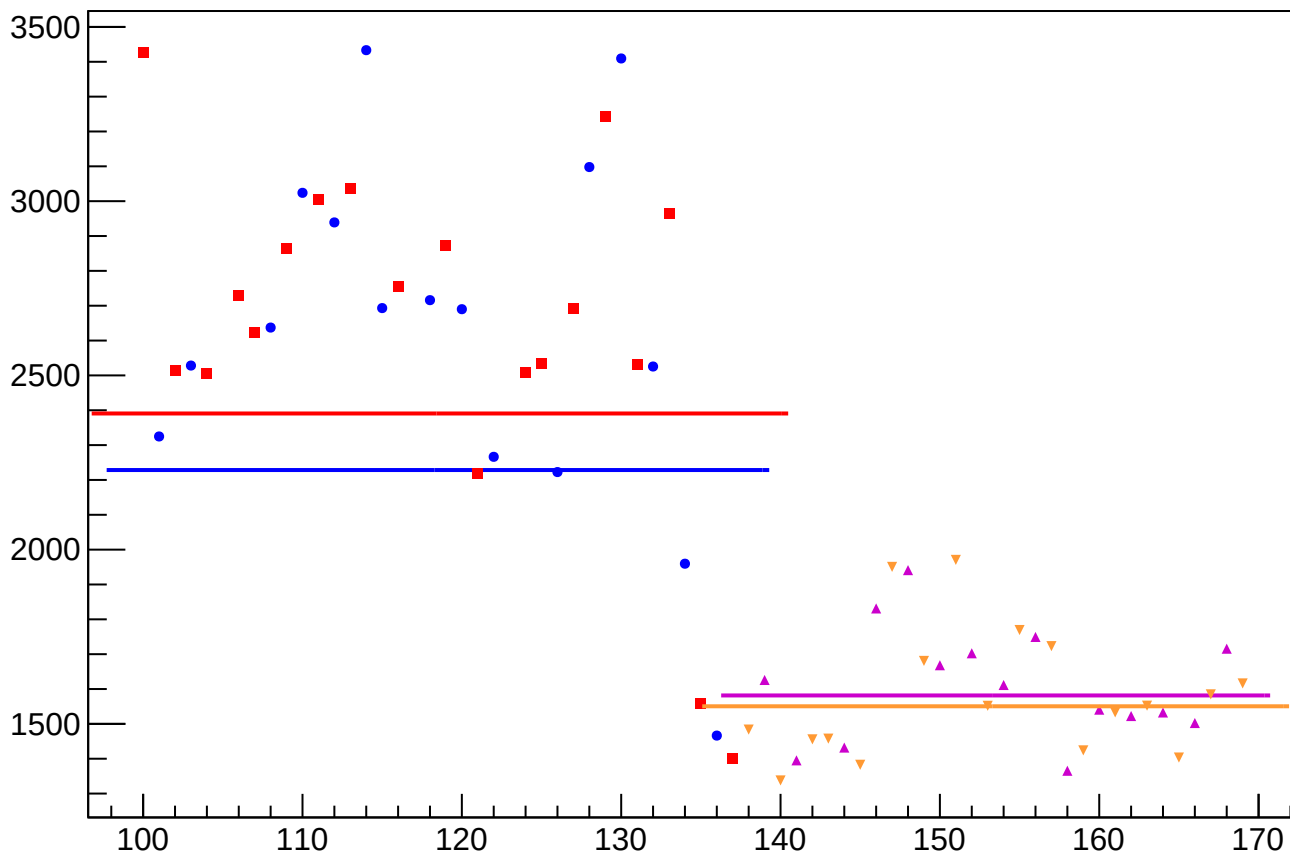
Right: -758.506+/-622.089 χ^2/NDF : 34.3/34

In: -714.020+/-400.041 χ^2/NDF : 41.9/30

Out: -850.310+/-385.601 χ^2/NDF : 45.4/35

All: -784.669+/-277.626 χ^2/NDF : 87.4/66

asym_sam_26_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 2228.435+/-0.607 χ^2/NDF : 947659.2/15

Left Out: 1550.460+/-0.302 χ^2/NDF : 306731.1/16

Right Out: 2390.731+/-0.638 χ^2/NDF : 790004.4/18

Left In: 1581.561+/-0.320 χ^2/NDF : 234627.6/14

Left: 1565.109+/-0.219 χ^2/NDF : 546366.5/31

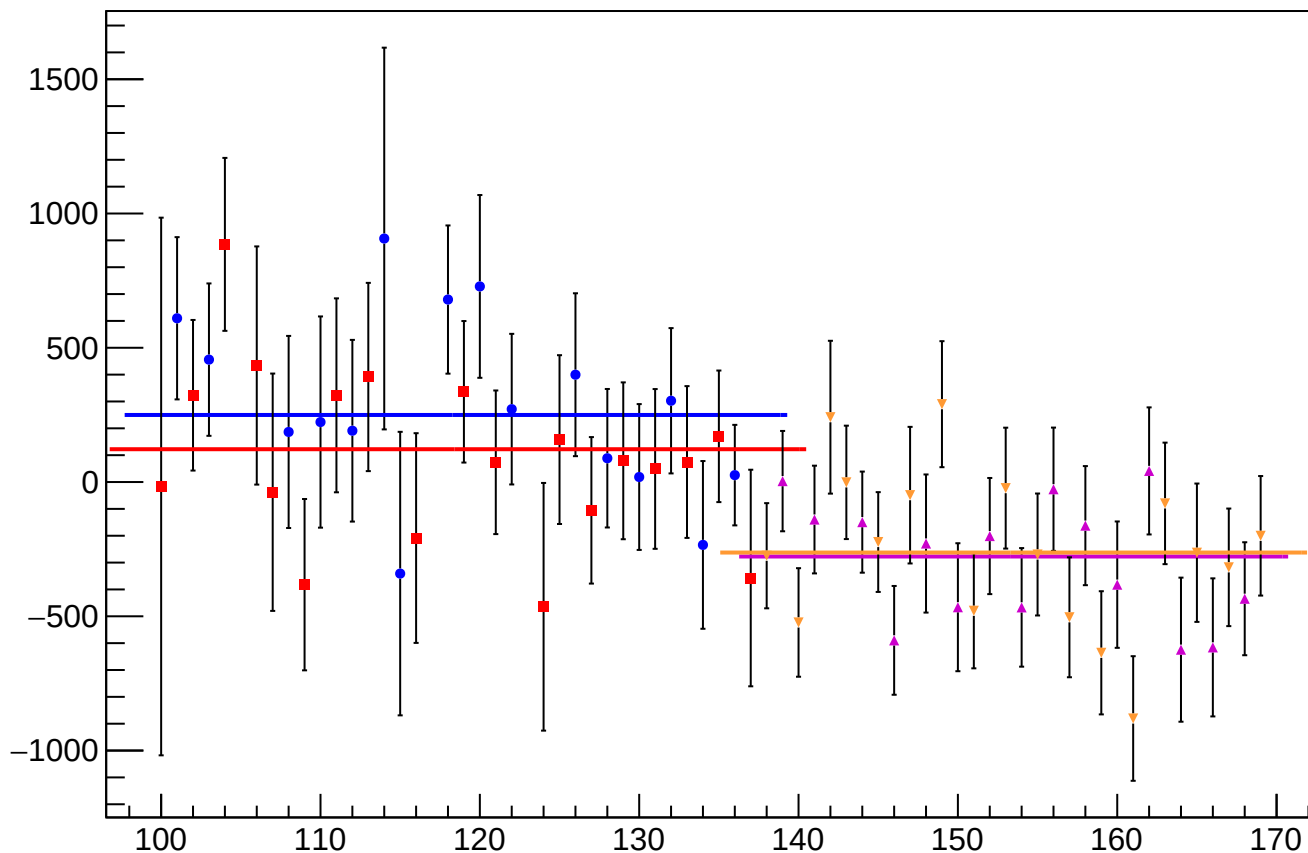
Right: 2305.630+/-0.440 χ^2/NDF : 1771614.3/34

In: 1721.827+/-0.283 χ^2/NDF : 2070353.9/30

Out: 1704.017+/-0.273 χ^2/NDF : 2515134.0/35

All: 1712.594+/-0.196 χ^2/NDF : 4587542.8/66

eigen_cor_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 249.764 $\pm$ 74.877 χ^2 /NDF: 13.8/15

Left Out: -262.559 $\pm$ 54.069 χ^2 /NDF:26.5/16

Right Out: 122.210 $\pm$ 74.380 χ^2 /NDF: 15.5/18

Left In: -277.319 $\pm$ 57.022 χ^2 /NDF:14.5/14

Left: -269.547 $\pm$ 39.235 χ^2 /NDF: 41.1/31

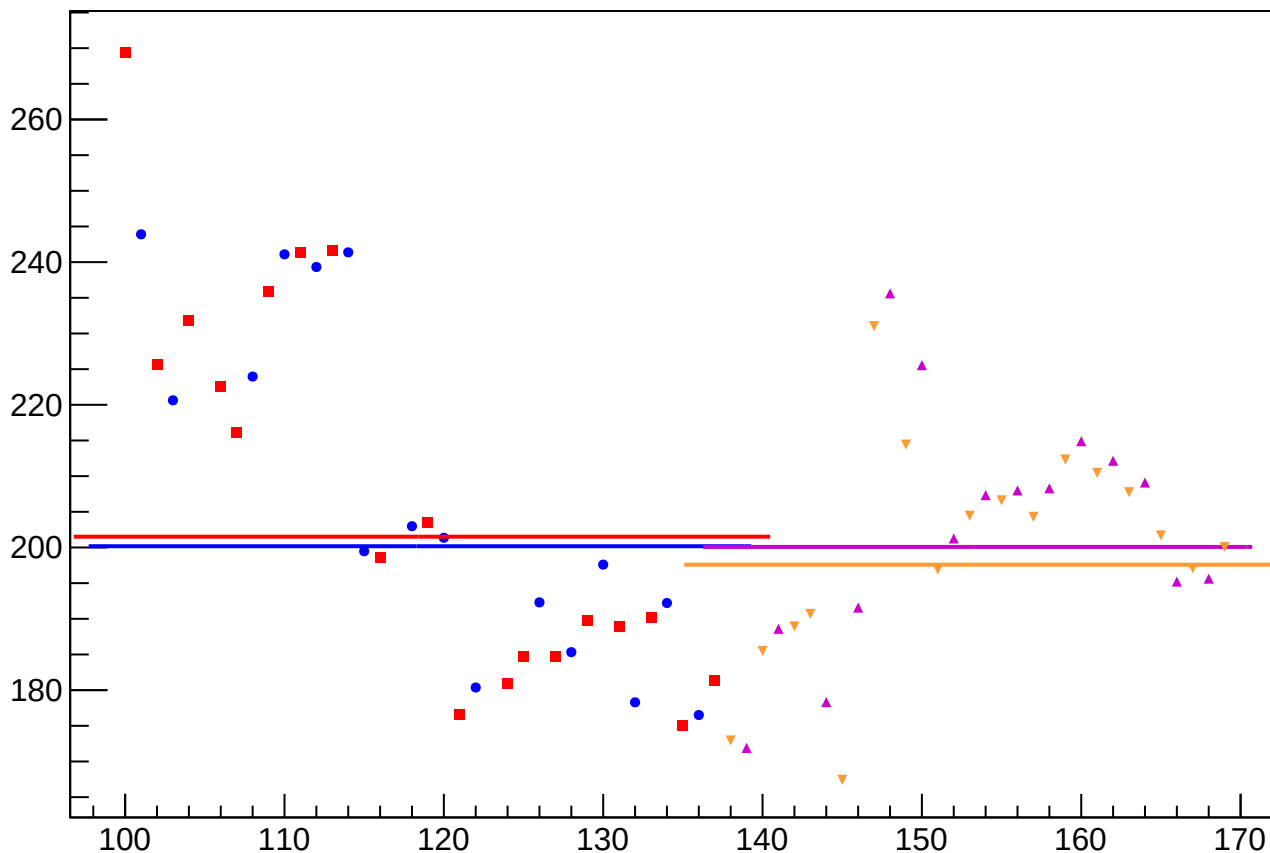
Right: 185.562 $\pm$ 52.770 χ^2 /NDF: 30.7/34

In: -83.843 $\pm$ 45.365 χ^2 /NDF:59.7/30

Out: -129.532 $\pm$ 43.735 χ^2 /NDF:59.5/35

All: -107.524 $\pm$ 31.486 χ^2 /NDF: 119.6/66

eigen_cor_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 200.177 ± 0.053 $\chi^2/\text{NDF}: 181001.6/15$

Left Out: 197.584 ± 0.038 $\chi^2/\text{NDF}: 166431.3/16$

Right Out: 201.514 ± 0.053 $\chi^2/\text{NDF}: 195431.2/18$

Left In: 200.079 ± 0.040 $\chi^2/\text{NDF}: 167710.1/14$

Left: 198.765 ± 0.028 $\chi^2/\text{NDF}: 336157.2/31$

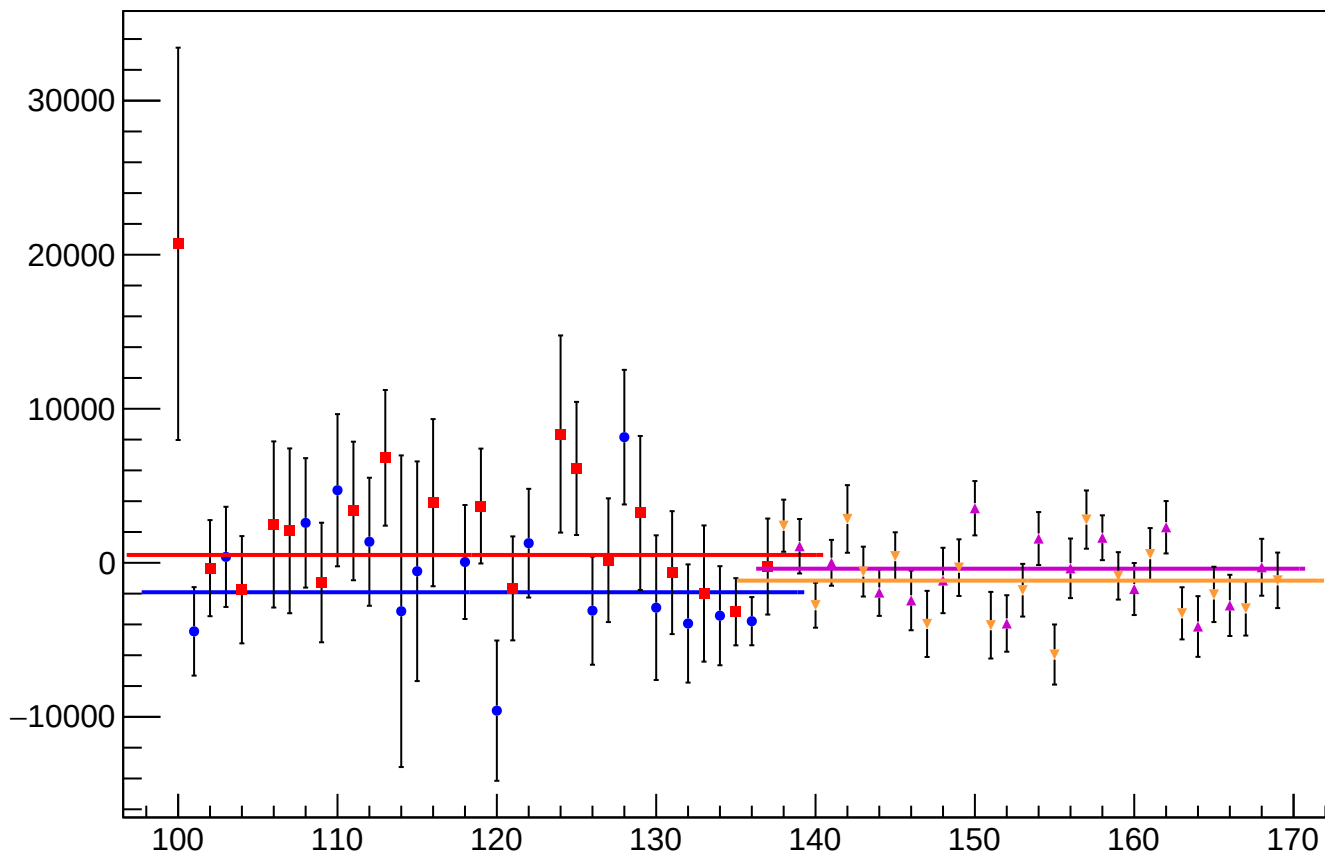
Right: 200.850 ± 0.037 $\chi^2/\text{NDF}: 376754.0/34$

In: 200.115 ± 0.032 $\chi^2/\text{NDF}: 348714.0/30$

Out: 198.943 ± 0.031 $\chi^2/\text{NDF}: 365516.4/35$

All: 199.507 ± 0.022 $\chi^2/\text{NDF}: 714922.1/66$

asym_sam_26_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1910.310 $\pm$ 859.089 χ^2 /NDF: 16.3/15

Left Out: -1154.775 $\pm$ 426.540 χ^2 /NDF: 28.4/16

Right Out: 511.276 $\pm$ 902.014 χ^2 /NDF: 14.2/18

Left In: -382.800 $\pm$ 452.041 χ^2 /NDF: 23.2/14

Left: -791.176 $\pm$ 310.233 χ^2 /NDF: 53.1/31

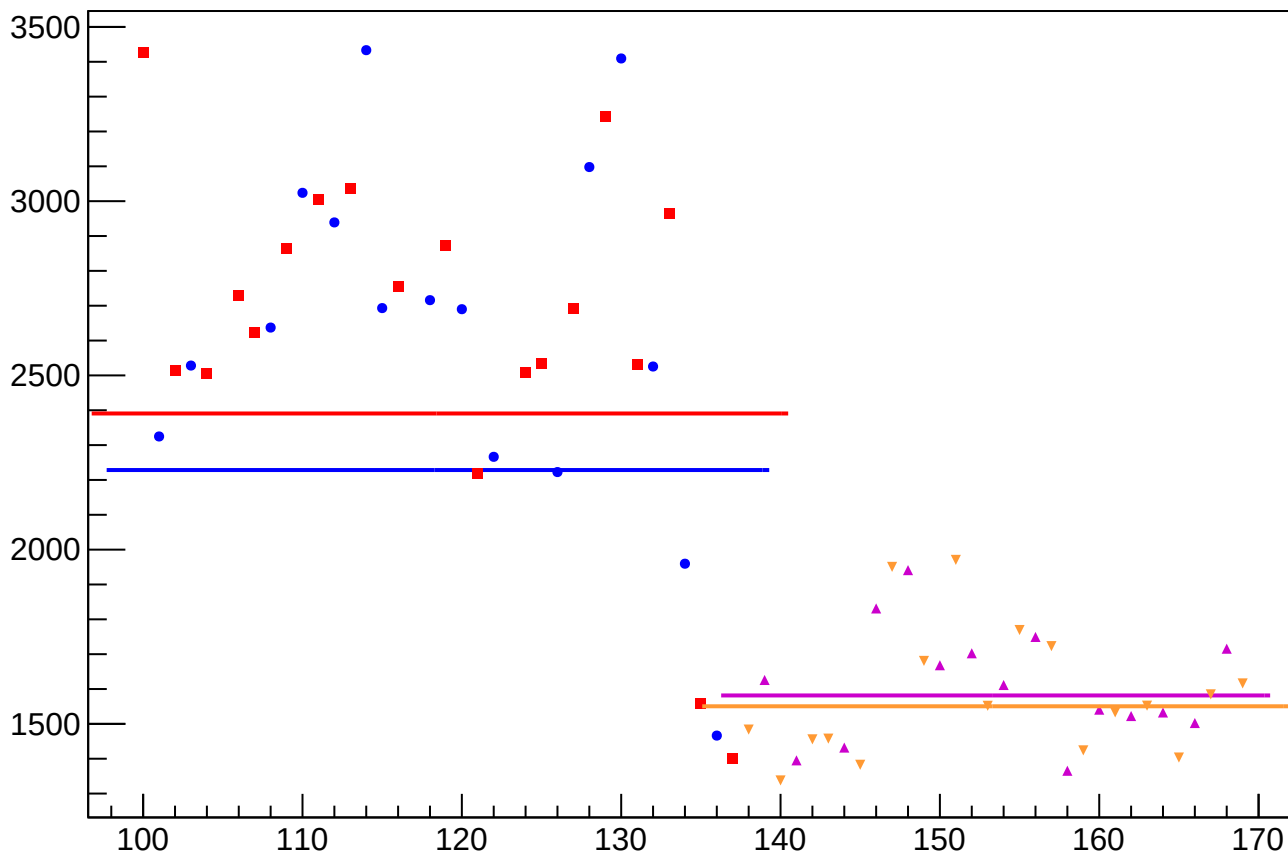
Right: -758.506 $\pm$ 622.089 χ^2 /NDF: 34.3/34

In: -714.020 $\pm$ 400.041 χ^2 /NDF: 41.9/30

Out: -850.310 $\pm$ 385.601 χ^2 /NDF: 45.4/35

All: -784.669 $\pm$ 277.626 χ^2 /NDF: 87.4/66

asym_sam_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 2228.435 $\pm$ 0.607 χ^2 /NDF: 947659.2/15

Left Out: 1550.460 $\pm$ 0.302 χ^2 /NDF: 306731.1/16

Right Out: 2390.731 $\pm$ 0.638 χ^2 /NDF: 790004.4/18

Left In: 1581.561 $\pm$ 0.320 χ^2 /NDF: 234627.6/14

Left: 1565.109 $\pm$ 0.219 χ^2 /NDF: 546366.5/31

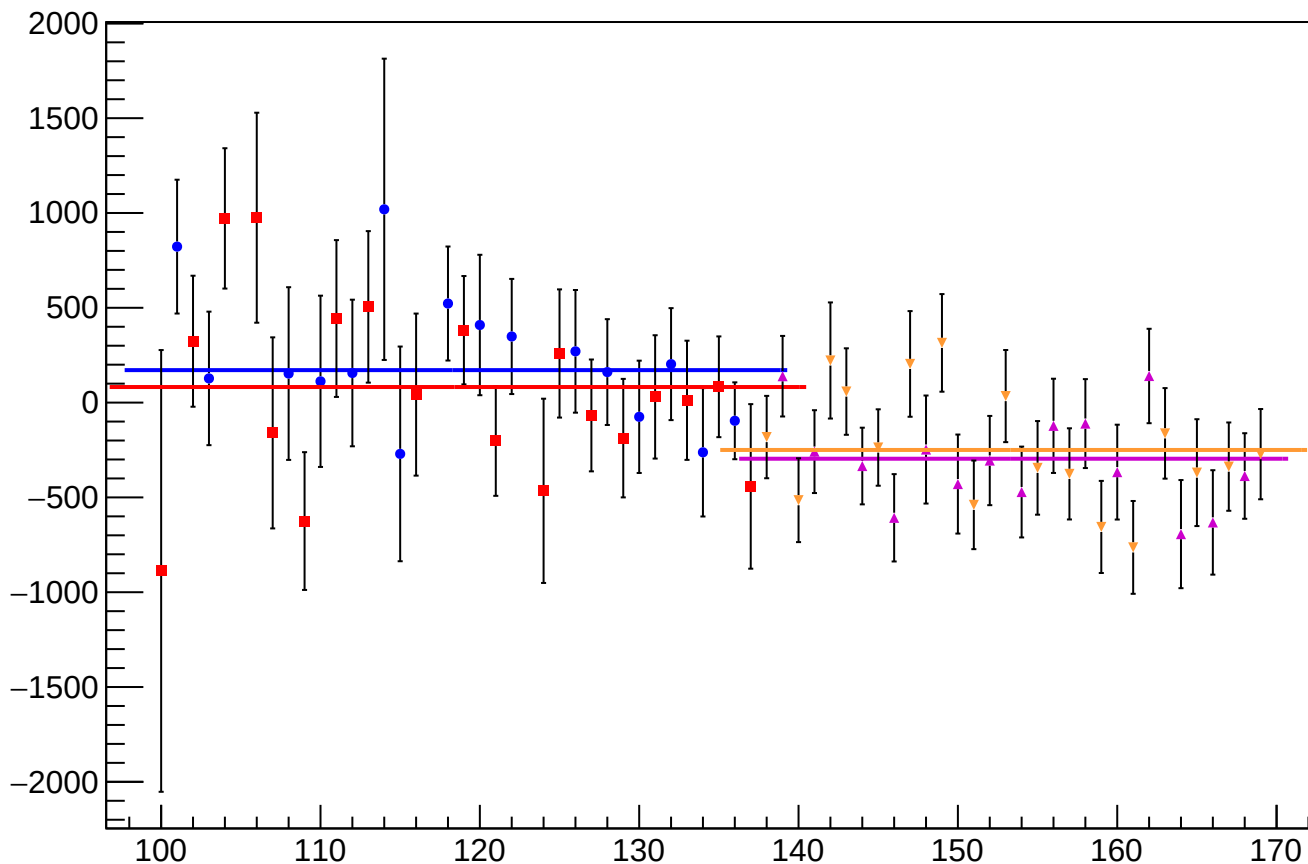
Right: 2305.630 $\pm$ 0.440 χ^2 /NDF: 1771614.3/34

In: 1721.827 $\pm$ 0.283 χ^2 /NDF: 2070353.9/30

Out: 1704.017 $\pm$ 0.273 χ^2 /NDF: 2515134.0/35

All: 1712.594 $\pm$ 0.196 χ^2 /NDF: 4587542.8/66

dit_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 171.258 $\pm$ 83.116 χ^2 /NDF: 11.5/15

Left Out: -249.792 $\pm$ 58.422 χ^2 /NDF:24.2/16

Right Out: 82.152 $\pm$ 82.545 χ^2 /NDF: 21.6/18

Left In: -296.037 $\pm$ 61.955 χ^2 /NDF:14.8/14

Left: -271.558 $\pm$ 42.505 χ^2 /NDF: 39.3/31

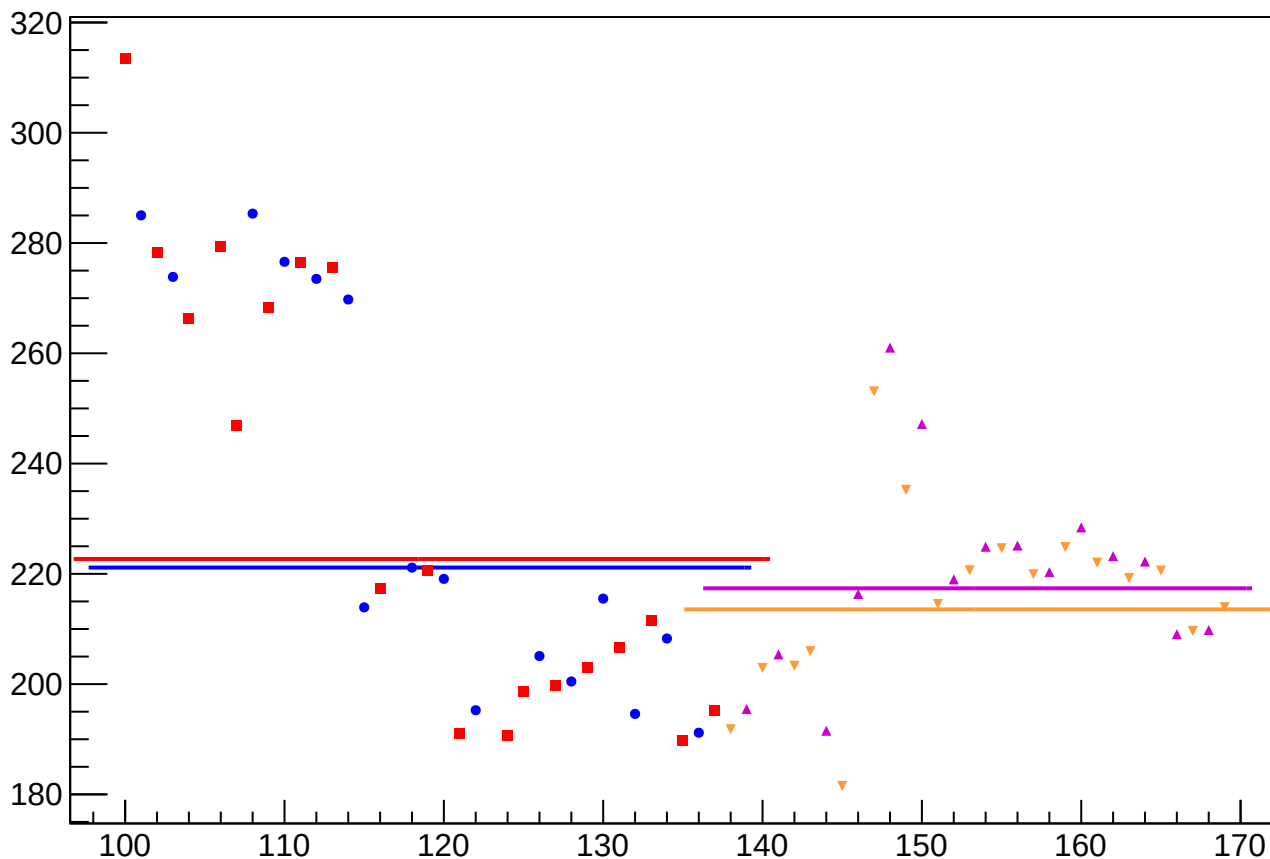
Right: 126.398 $\pm$ 58.569 χ^2 /NDF: 33.7/34

In: -129.131 $\pm$ 49.673 χ^2 /NDF:46.6/30

Out: -139.008 $\pm$ 47.687 χ^2 /NDF:56.6/35

All: -134.271 $\pm$ 34.401 χ^2 /NDF: 103.2/66

dit_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 221.139 ± 0.059 χ^2/NDF : 318702.0/15

Left Out: 213.552 ± 0.041 χ^2/NDF : 150936.6/16

Right Out: 222.697 ± 0.058 χ^2/NDF : 327032.3/18

Left In: 217.377 ± 0.044 χ^2/NDF : 146927.9/14

Left: 215.352 ± 0.030 χ^2/NDF : 301898.2/31

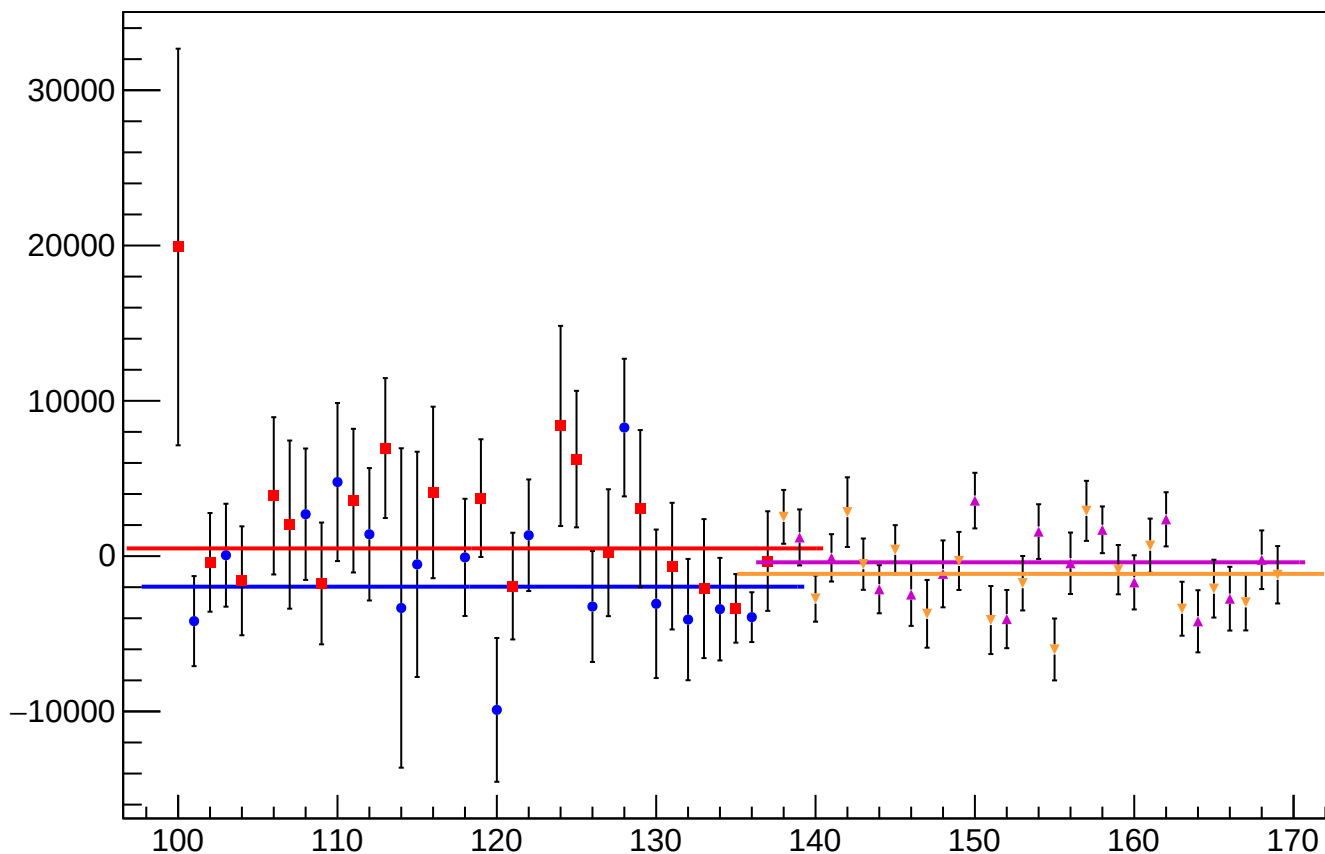
Right: 221.924 ± 0.041 χ^2/NDF : 646088.3/34

In: 218.720 ± 0.035 χ^2/NDF : 468264.4/30

Out: 216.604 ± 0.034 χ^2/NDF : 494324.3/35

All: 217.619 ± 0.024 χ^2/NDF : 964477.5/66

asym_sam_26_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -1967.414 $\pm$ 876.610 χ^2 /NDF: 16.2/15

Left Out: -1142.793 $\pm$ 436.732 χ^2 /NDF: 27.9/16

Right Out: 497.281 $\pm$ 914.759 χ^2 /NDF: 14.8/18

Left In: -398.039 $\pm$ 463.383 χ^2 /NDF: 23.2/14

Left: -792.447 $\pm$ 317.820 χ^2 /NDF: 52.4/31

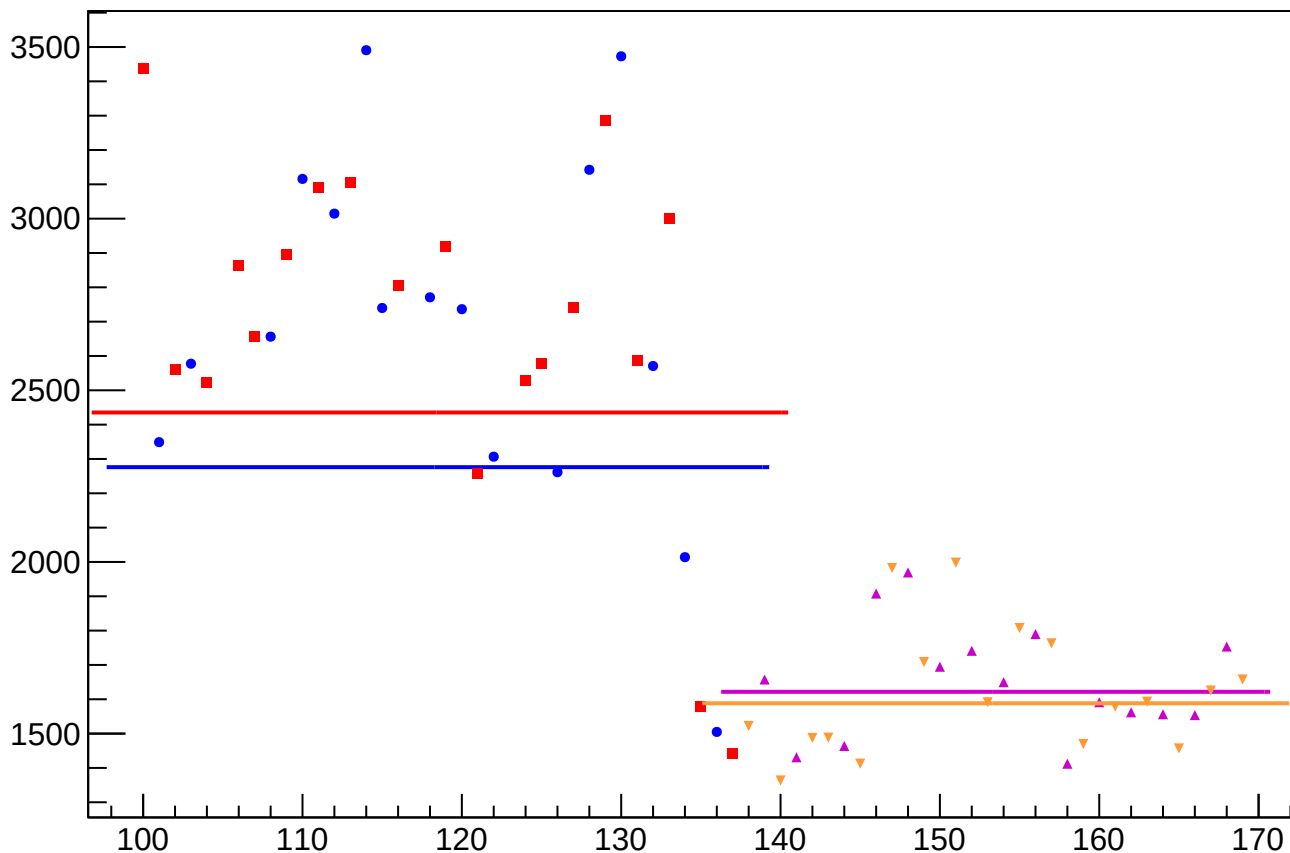
Right: -787.531 $\pm$ 632.914 χ^2 /NDF: 34.7/34

In: -740.790 $\pm$ 409.668 χ^2 /NDF: 41.8/30

Out: -838.351 $\pm$ 394.118 χ^2 /NDF: 45.2/35

All: -791.457 $\pm$ 284.022 χ^2 /NDF: 87.1/66

asym_sam_26_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 2276.134 $\pm$ 0.620 χ^2 /NDF: 926982.8/15

Left Out: 1588.316 $\pm$ 0.309 χ^2 /NDF: 293403.9/16

Right Out: 2435.354 $\pm$ 0.647 χ^2 /NDF: 791515.5/18

Left In: 1621.718 $\pm$ 0.328 χ^2 /NDF: 227376.3/14

Left: 1604.029 $\pm$ 0.225 χ^2 /NDF: 526283.4/31

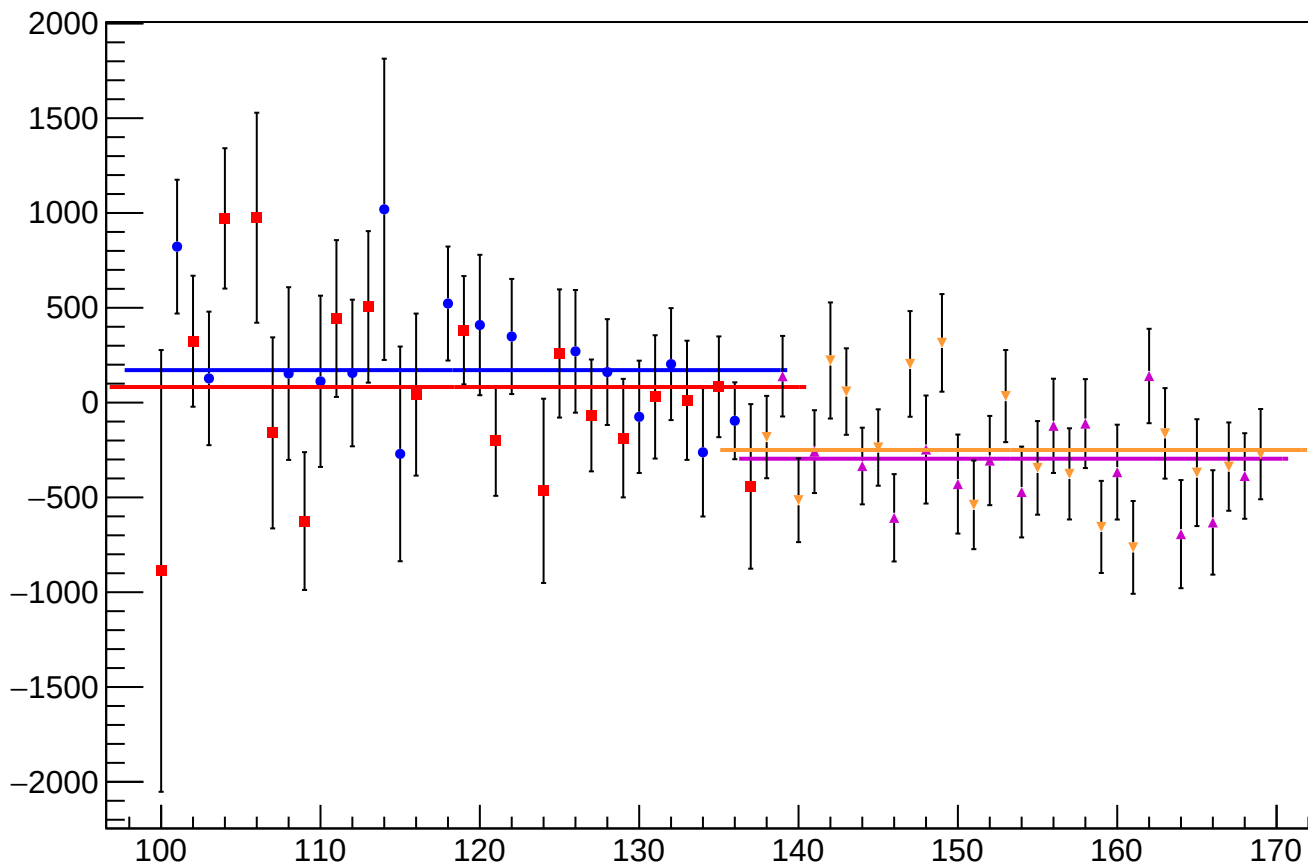
Right: 2352.355 $\pm$ 0.448 χ^2 /NDF: 1750083.9/34

In: 1764.642 $\pm$ 0.290 χ^2 /NDF: 2025544.8/30

Out: 1745.549 $\pm$ 0.279 χ^2 /NDF: 2481436.8/35

All: 1754.726 $\pm$ 0.201 χ^2 /NDF: 4509237.8/66

eigen_dit_asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 171.260 $\pm$ 83.115 χ^2 /NDF: 11.5/15

Left Out: -249.793 $\pm$ 58.422 χ^2 /NDF:24.2/16

Right Out: 82.150 $\pm$ 82.545 χ^2 /NDF: 21.6/18

Left In: -296.040 $\pm$ 61.955 χ^2 /NDF:14.8/14

Left: -271.561 $\pm$ 42.505 χ^2 /NDF: 39.3/31

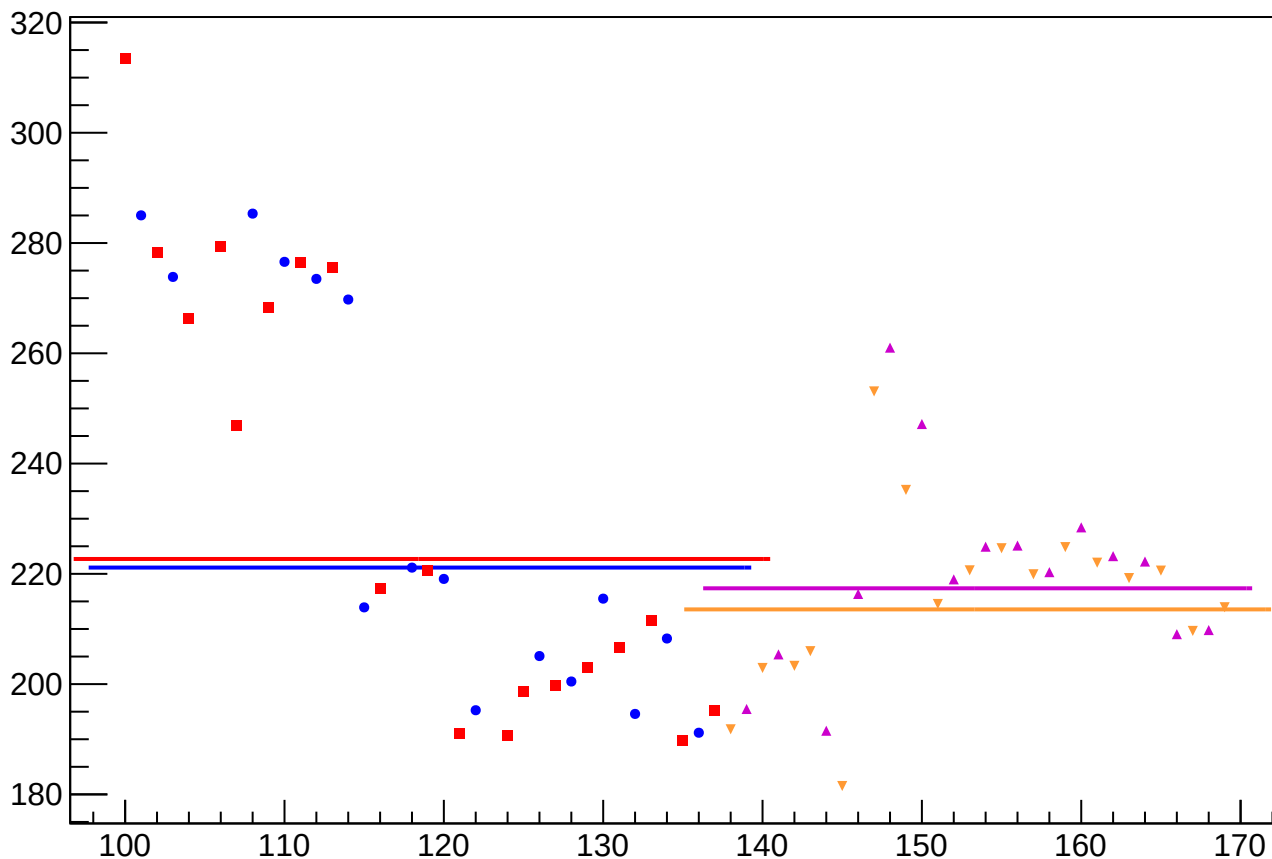
Right: 126.398 $\pm$ 58.569 χ^2 /NDF: 33.7/34

In: -129.132 $\pm$ 49.673 χ^2 /NDF:46.6/30

Out: -139.009 $\pm$ 47.687 χ^2 /NDF:56.6/35

All: -134.272 $\pm$ 34.400 χ^2 /NDF: 103.2/66

eigen_dit_asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 221.138 ± 0.059 χ^2/NDF : 318696.9/15

Left Out: 213.552 ± 0.041 χ^2/NDF : 150940.7/16

Right Out: 222.696 ± 0.058 χ^2/NDF : 327025.2/18

Left In: 217.376 ± 0.044 χ^2/NDF : 146930.3/14

Left: 215.352 ± 0.030 χ^2/NDF : 301904.6/31

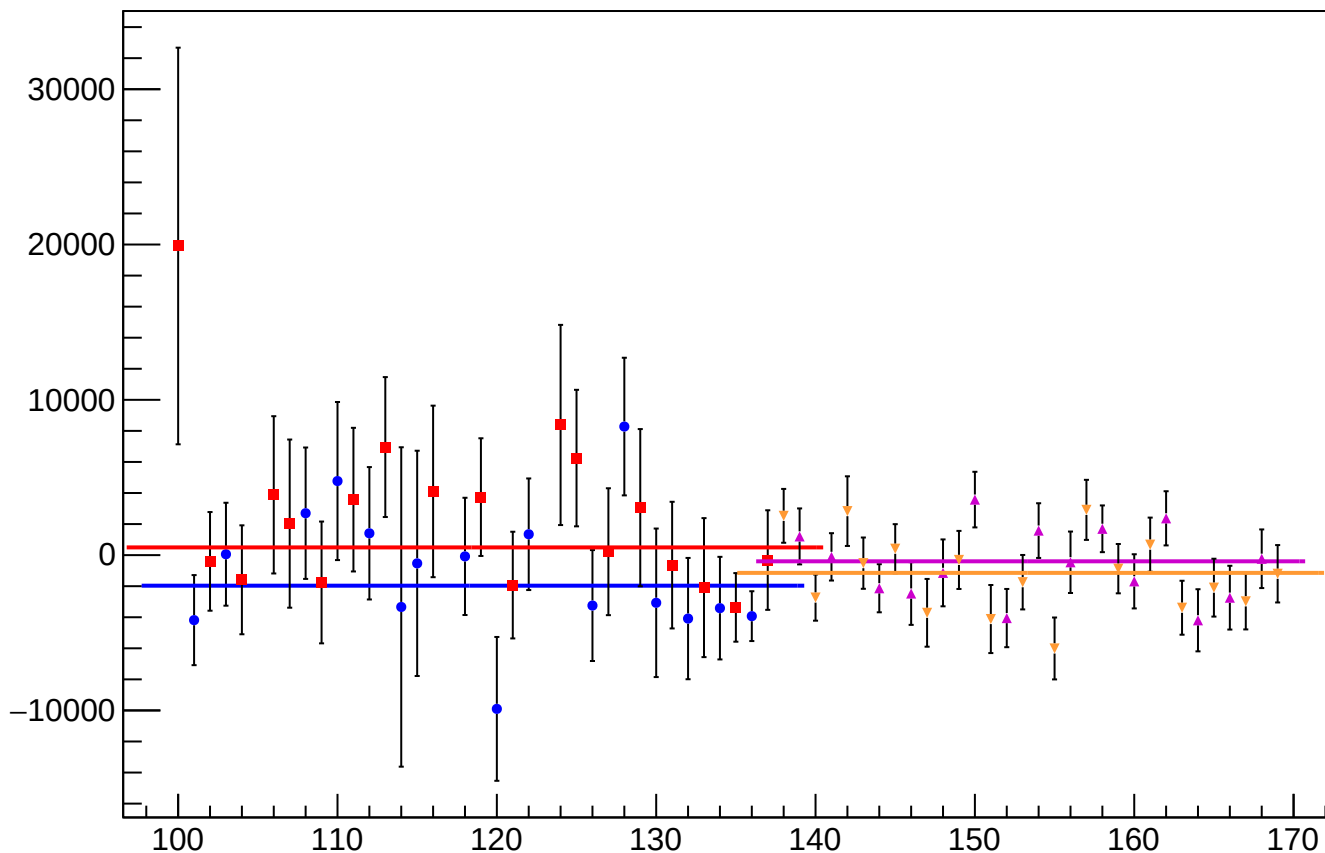
Right: 221.923 ± 0.041 χ^2/NDF : 646076.2/34

In: 218.720 ± 0.035 χ^2/NDF : 468260.4/30

Out: 216.604 ± 0.034 χ^2/NDF : 494318.8/35

All: 217.619 ± 0.024 χ^2/NDF : 964467.6/66

asym_sam_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1967.409 ± 876.608 $\chi^2/\text{NDF}: 16.2/15$

Left Out: -1142.793 ± 436.732 $\chi^2/\text{NDF}: 27.9/16$

Right Out: 497.282 ± 914.757 $\chi^2/\text{NDF}: 14.8/18$

Left In: -398.039 ± 463.383 $\chi^2/\text{NDF}: 23.2/14$

Left: -792.447 ± 317.820 $\chi^2/\text{NDF}: 52.4/31$

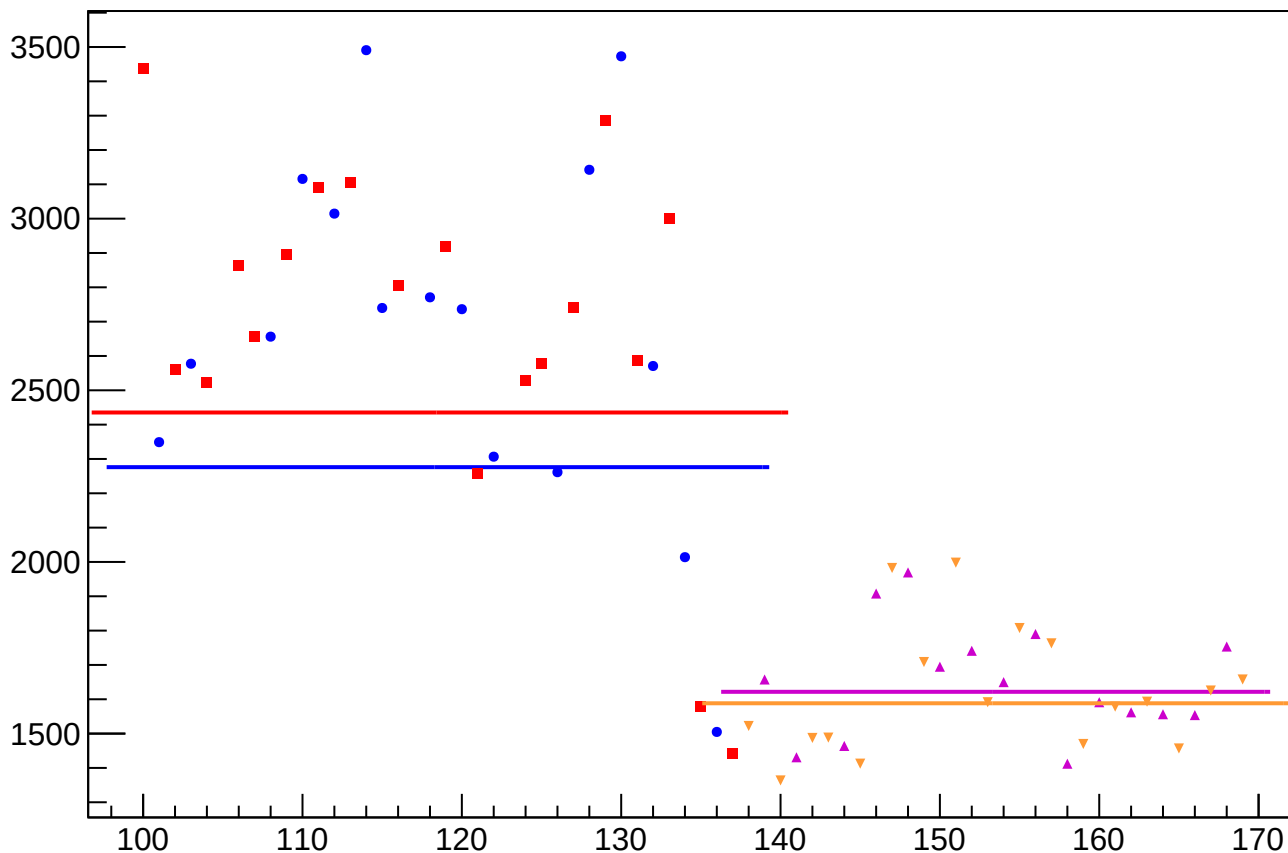
Right: -787.528 ± 632.913 $\chi^2/\text{NDF}: 34.7/34$

In: -740.789 ± 409.668 $\chi^2/\text{NDF}: 41.8/30$

Out: -838.350 ± 394.118 $\chi^2/\text{NDF}: 45.2/35$

All: -791.456 ± 284.022 $\chi^2/\text{NDF}: 87.1/66$

asym_sam_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 2276.132 $\pm$ 0.620 χ^2 /NDF: 926973.2/15

Left Out: 1588.316 $\pm$ 0.309 χ^2 /NDF: 293406.9/16

Right Out: 2435.351 $\pm$ 0.647 χ^2 /NDF: 791509.5/18

Left In: 1621.718 $\pm$ 0.328 χ^2 /NDF: 227377.8/14

Left: 1604.029 $\pm$ 0.225 χ^2 /NDF: 526288.0/31

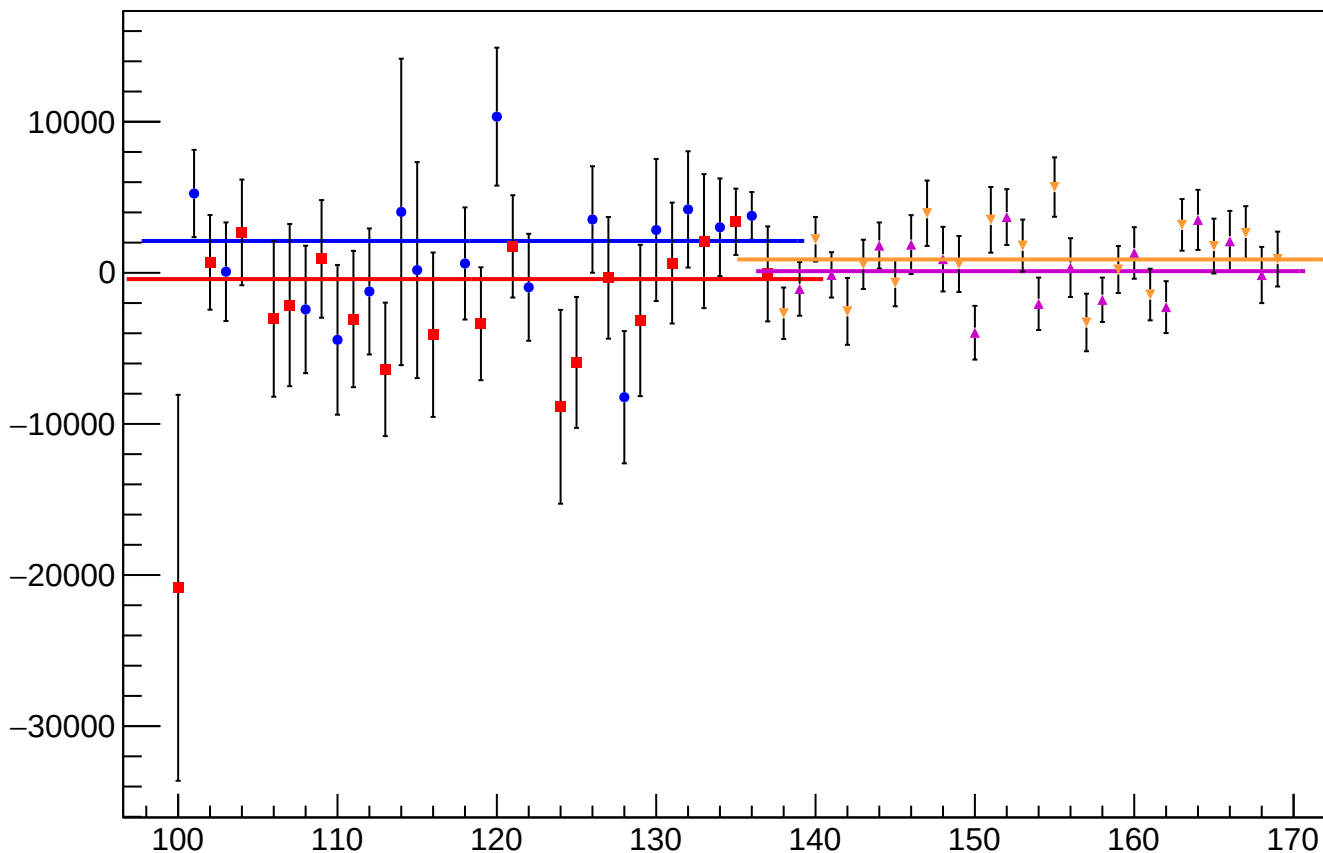
Right: 2352.352 $\pm$ 0.448 χ^2 /NDF: 1750068.0/34

In: 1764.642 $\pm$ 0.290 χ^2 /NDF: 2025532.0/30

Out: 1745.548 $\pm$ 0.279 χ^2 /NDF: 2481426.7/35

All: 1754.726 $\pm$ 0.201 χ^2 /NDF: 4509214.9/66

asym_sam_26_dd_mean vs Slug, Sign Corrected



Right In: 2109.537 $\pm$ 863.291 χ^2 /NDF: 16.6/15

Left Out: 885.646 $\pm$ 430.135 χ^2 /NDF:28.2/16

Right Out: -414.095 $\pm$ 904.414 χ^2 /NDF: 14.7/18

Left In: 110.817 $\pm$ 455.844 χ^2 /NDF:21.2/14

Left: 520.697 $\pm$ 312.846 χ^2 /NDF: 50.9/31

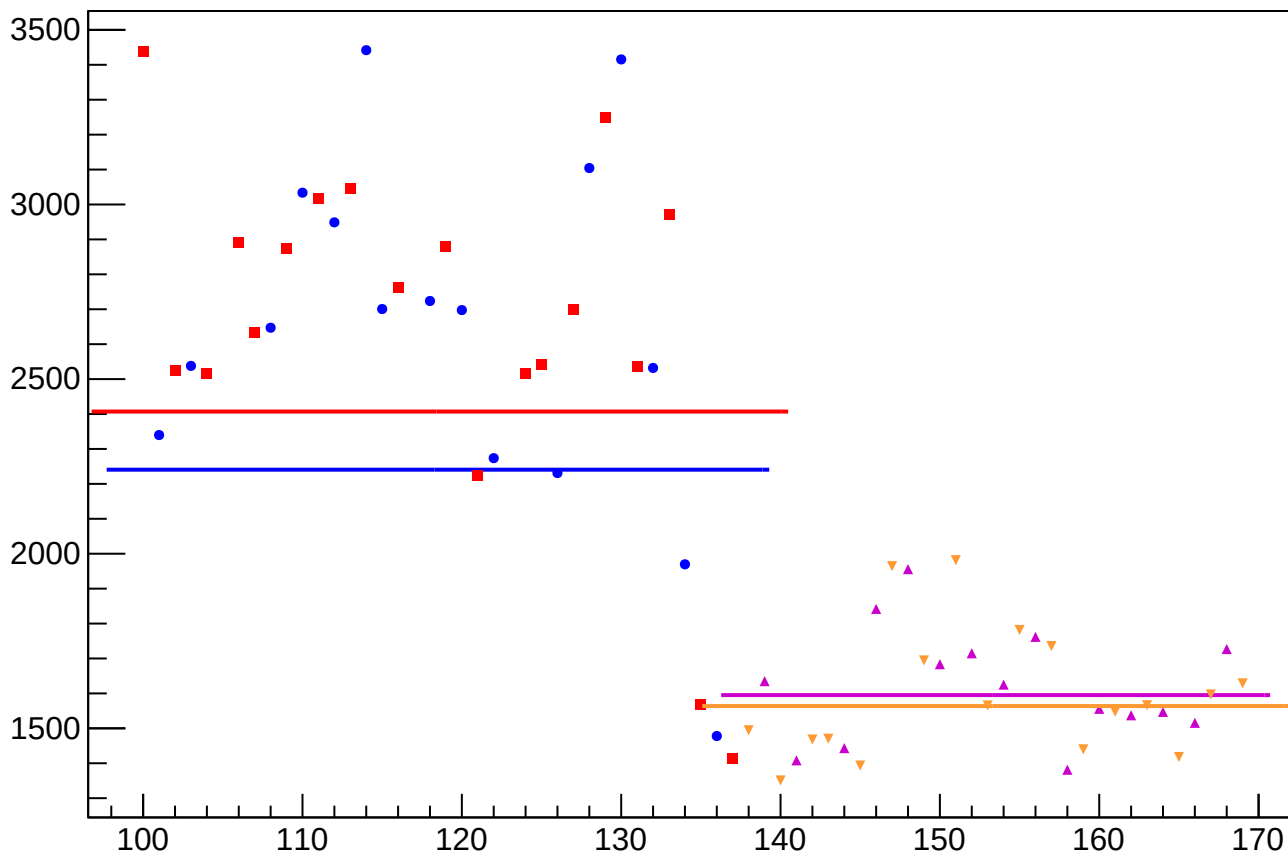
Right: 906.398 $\pm$ 624.471 χ^2 /NDF: 35.4/34

In: 546.592 $\pm$ 403.100 χ^2 /NDF:42.0/30

Out: 645.888 $\pm$ 388.442 χ^2 /NDF:44.5/35

All: 598.078 $\pm$ 279.708 χ^2 /NDF: 86.6/66

asym_sam_26_dd_rms vs Slug, Sign Corrected



Right In: 2240.626+/-0.610 χ^2/NDF : 933590.8/15

Left Out: 1563.807+/-0.304 χ^2/NDF : 301544.0/16

Right Out: 2407.124+/-0.640 χ^2/NDF : 788976.1/18

Left In: 1595.136+/-0.322 χ^2/NDF : 229239.6/14

Left: 1578.563+/-0.221 χ^2/NDF : 535780.8/31

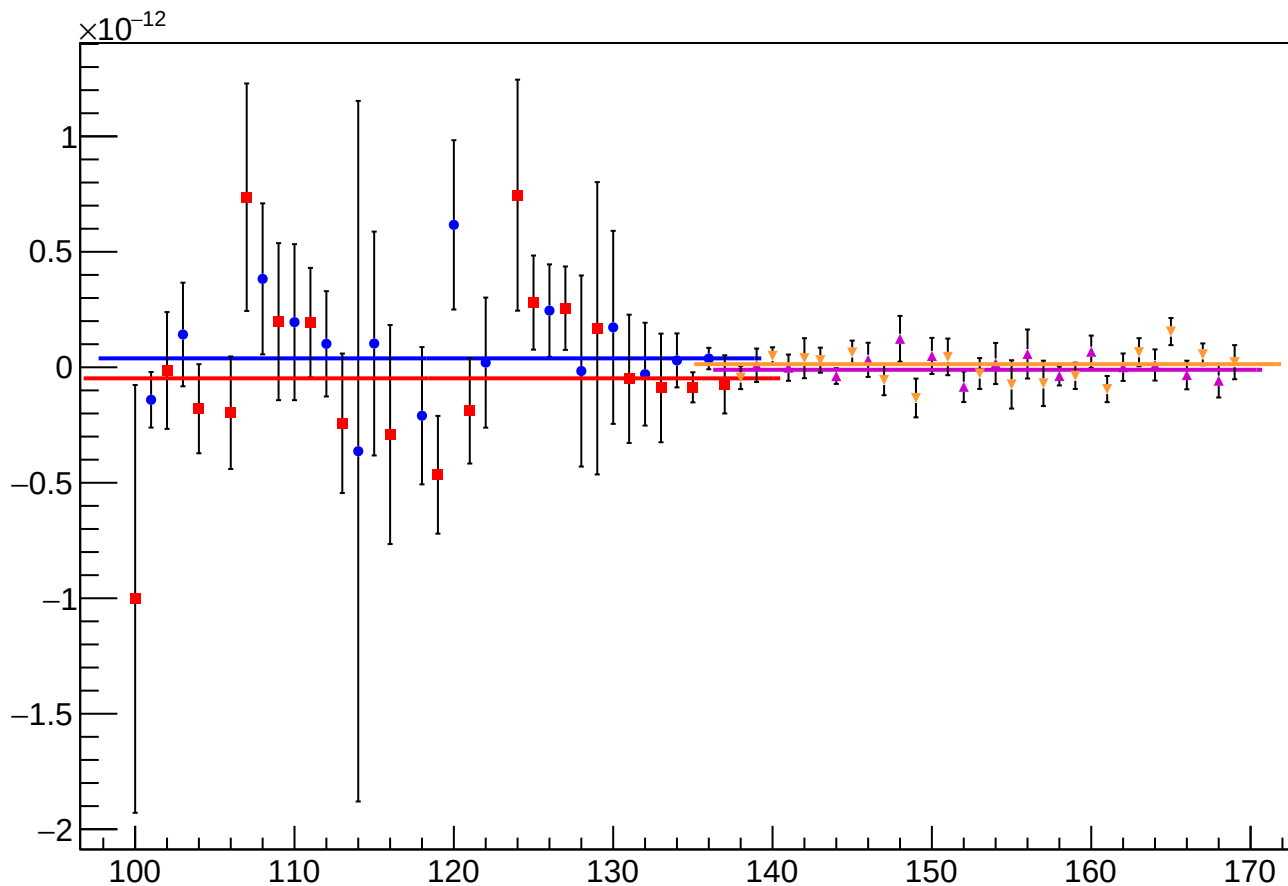
Right: 2320.004+/-0.442 χ^2/NDF : 1758033.9/34

In: 1735.870+/-0.285 χ^2/NDF : 2037183.6/30

Out: 1719.371+/-0.275 χ^2/NDF : 2508660.8/35

All: 1727.315+/-0.198 χ^2/NDF : 4547581.8/66

asym_sam_26_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 8.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :21.2/16

Right Out: -0.000+/-0.000 χ^2/NDF : 18.2/18

Left In: -0.000+/-0.000 χ^2/NDF :7.6/14

Left: 0.000+/-0.000 χ^2/NDF : 30.1/31

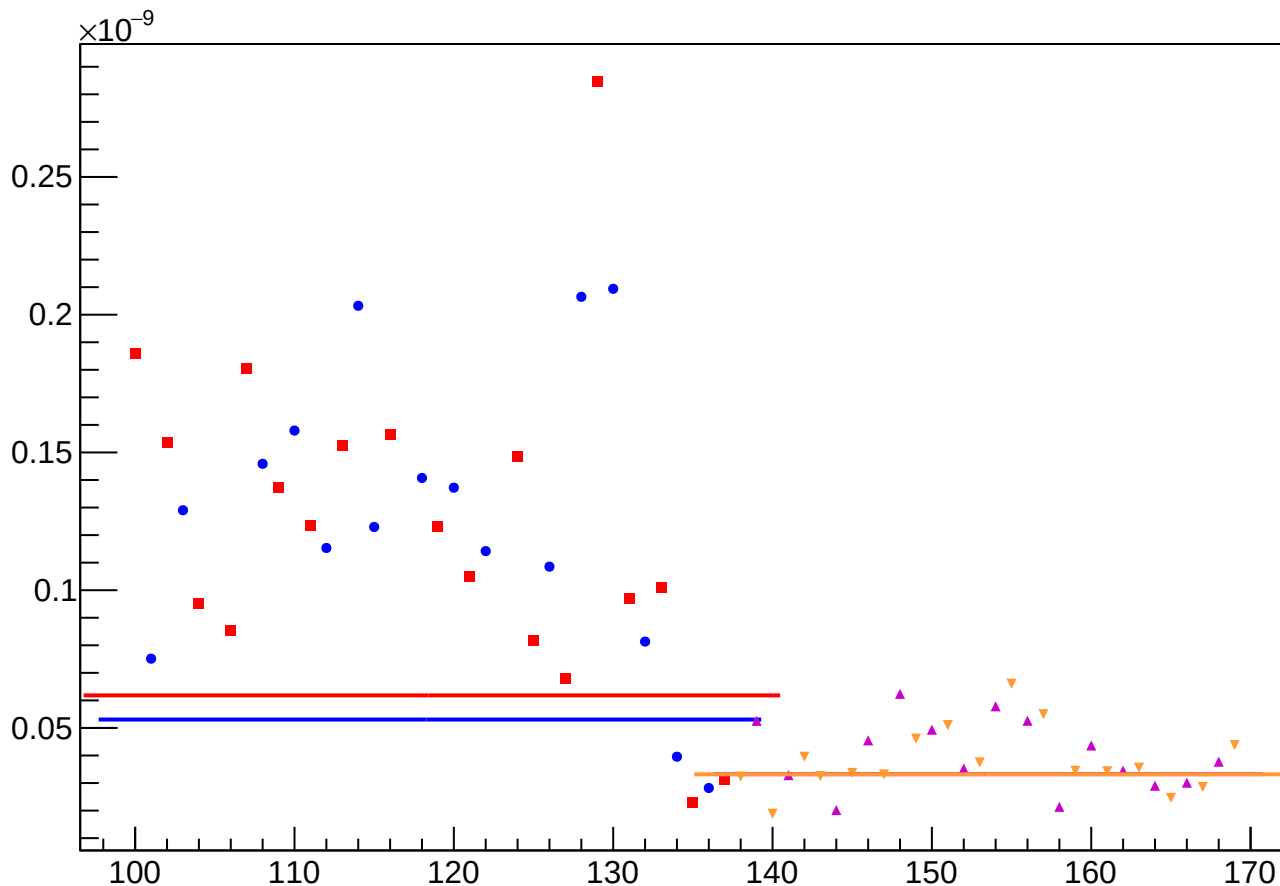
Right: 0.000+/-0.000 χ^2/NDF : 29.0/34

In: -0.000+/-0.000 χ^2/NDF :17.6/30

Out: 0.000+/-0.000 χ^2/NDF :41.2/35

All: 0.000+/-0.000 χ^2/NDF : 59.1/66

asym_sam_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2576481.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 864720.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2416437.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 1203862.0/14

Left: 0.000+/-0.000 χ^2/NDF : 2068605.6/31

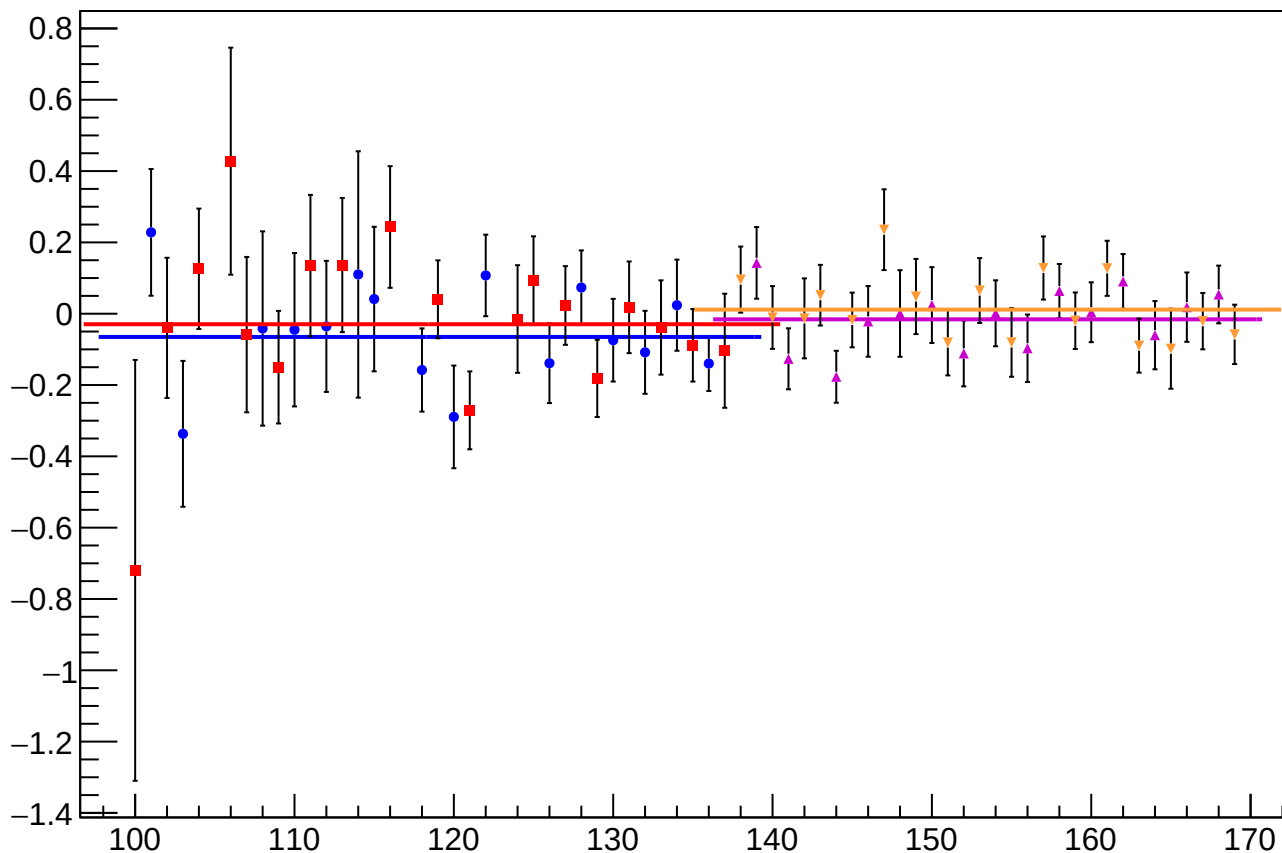
Right: 0.000+/-0.000 χ^2/NDF : 5040906.1/34

In: 0.000+/-0.000 χ^2/NDF : 4280083.8/30

Out: 0.000+/-0.000 χ^2/NDF : 4066343.4/35

All: 0.000+/-0.000 χ^2/NDF : 8346935.0/66

asym_sam_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 $\chi^2/\text{NDF}: 14.2/15$

Left Out: 0.011 ± 0.022 $\chi^2/\text{NDF}: 15.3/16$

Right Out: -0.030 ± 0.033 $\chi^2/\text{NDF}: 18.1/18$

Left In: -0.016 ± 0.023 $\chi^2/\text{NDF}: 15.2/14$

Left: -0.001 ± 0.016 $\chi^2/\text{NDF}: 31.3/31$

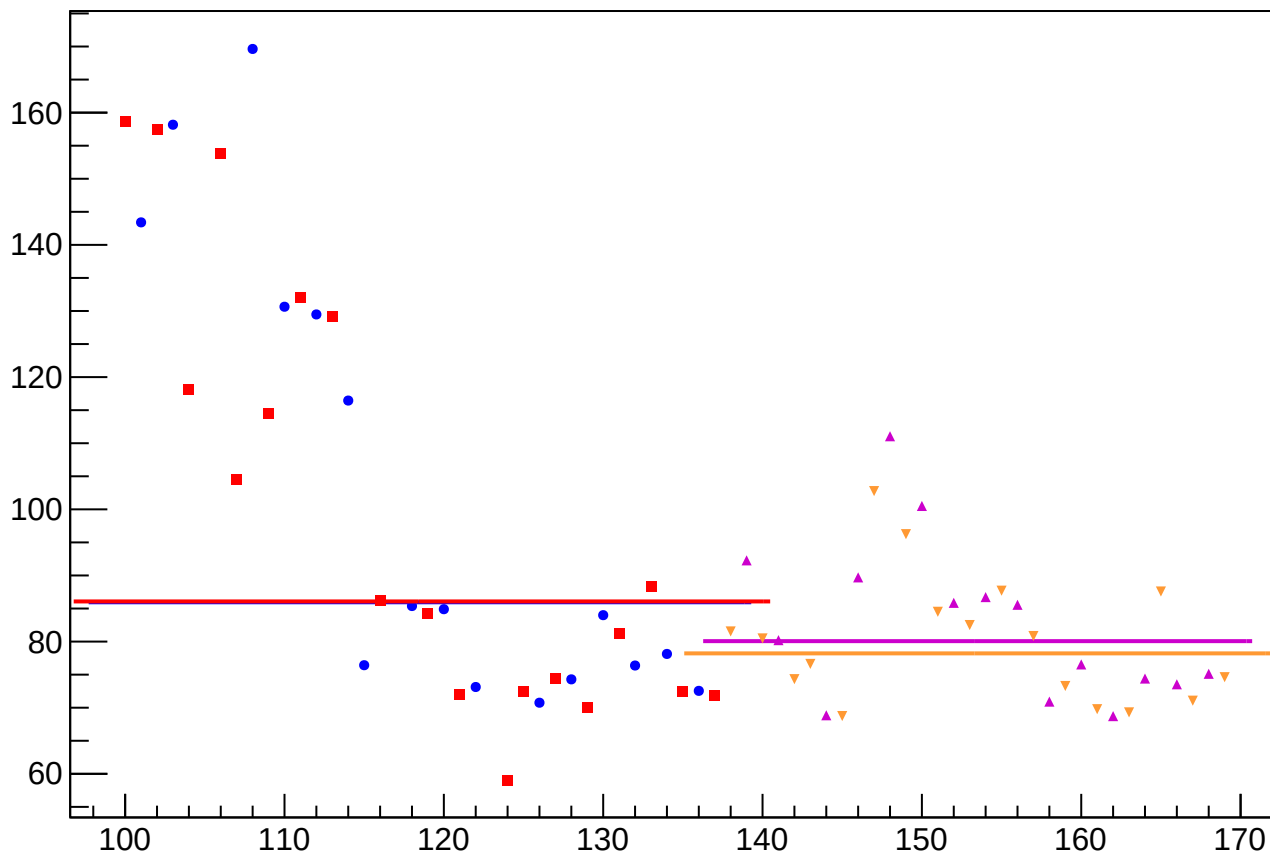
Right: -0.047 ± 0.023 $\chi^2/\text{NDF}: 32.8/34$

In: -0.032 ± 0.019 $\chi^2/\text{NDF}: 30.9/30$

Out: -0.001 ± 0.018 $\chi^2/\text{NDF}: 34.5/35$

All: -0.015 ± 0.013 $\chi^2/\text{NDF}: 66.8/66$

asym_sam_26_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 85.946 $\pm$ 0.024 χ^2 /NDF: 1035004.5/15

Left Out: 78.216 $\pm$ 0.015 χ^2 /NDF: 318265.0/16

Right Out: 86.073 $\pm$ 0.023 χ^2 /NDF: 991371.4/18

Left In: 80.067 $\pm$ 0.016 χ^2 /NDF: 424902.1/14

Left: 79.078 $\pm$ 0.011 χ^2 /NDF: 750058.8/31

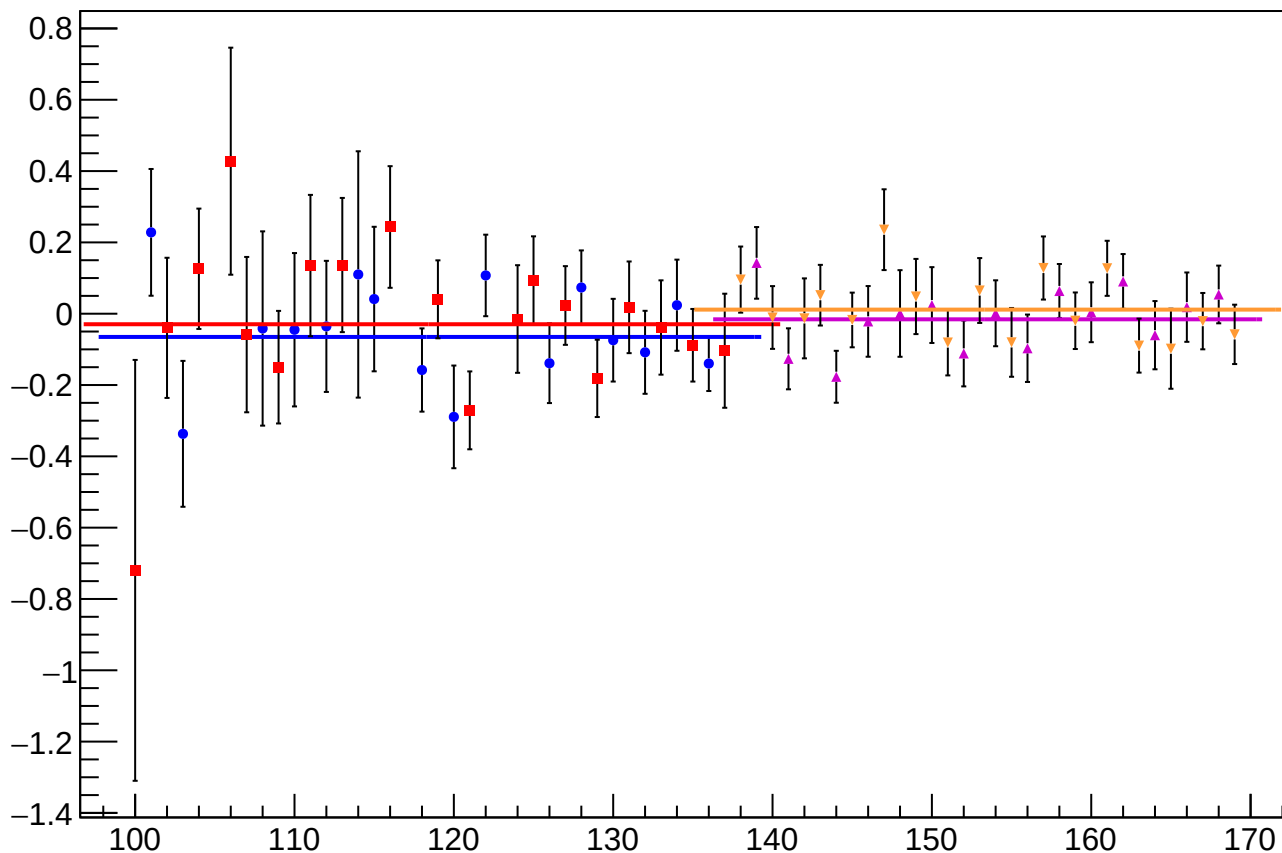
Right: 86.010 $\pm$ 0.017 χ^2 /NDF: 2026390.6/34

In: 81.971 $\pm$ 0.013 χ^2 /NDF: 1502027.7/30

Out: 80.564 $\pm$ 0.013 χ^2 /NDF: 1389307.2/35

All: 81.232 $\pm$ 0.009 χ^2 /NDF: 2897126.7/66

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 $\chi^2/\text{NDF}: 14.2/15$

Left Out: 0.011 ± 0.022 $\chi^2/\text{NDF}: 15.3/16$

Right Out: -0.030 ± 0.033 $\chi^2/\text{NDF}: 18.1/18$

Left In: -0.016 ± 0.023 $\chi^2/\text{NDF}: 15.2/14$

Left: -0.001 ± 0.016 $\chi^2/\text{NDF}: 31.3/31$

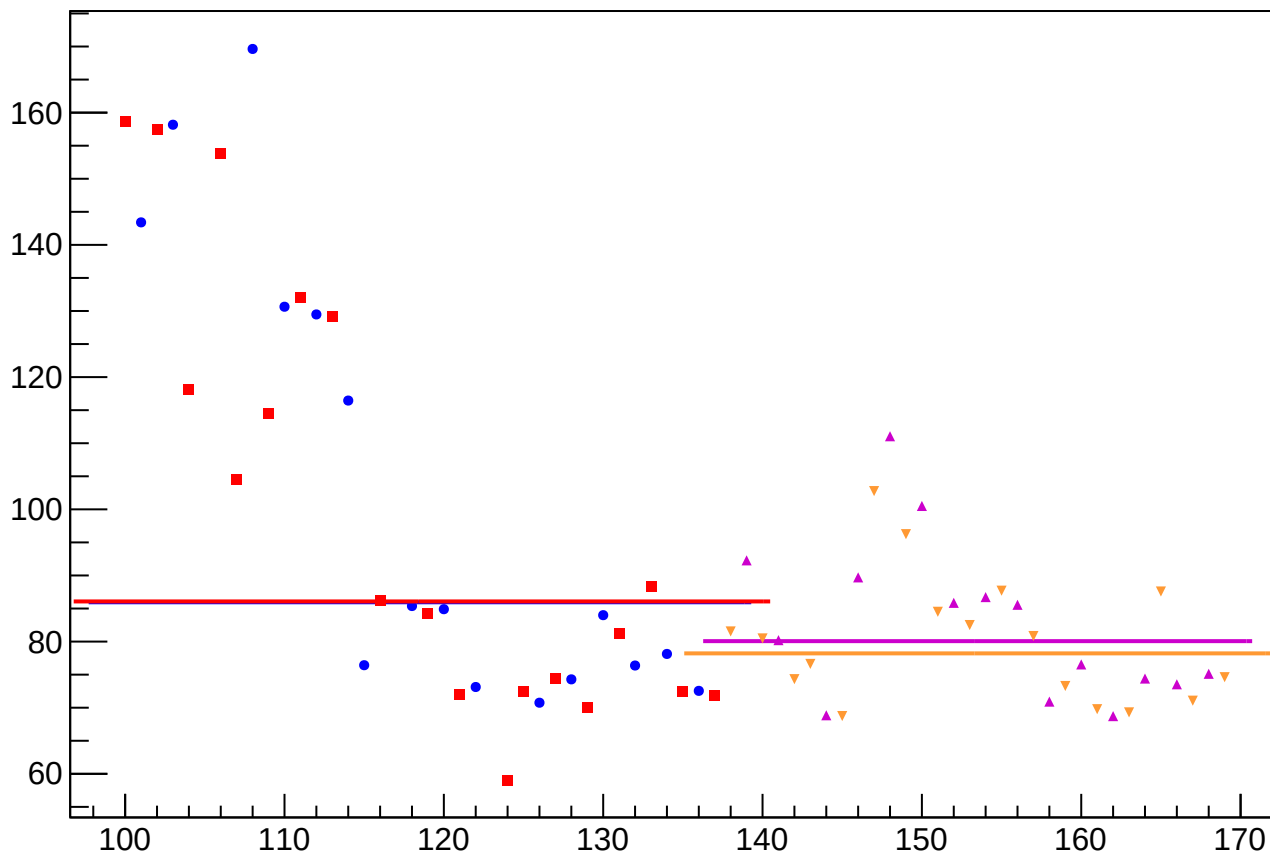
Right: -0.047 ± 0.023 $\chi^2/\text{NDF}: 32.8/34$

In: -0.032 ± 0.019 $\chi^2/\text{NDF}: 30.9/30$

Out: -0.001 ± 0.018 $\chi^2/\text{NDF}: 34.5/35$

All: -0.015 ± 0.013 $\chi^2/\text{NDF}: 66.8/66$

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 85.946 $\pm$ 0.024 χ^2 /NDF: 1035004.5/15

Left Out: 78.216 $\pm$ 0.015 χ^2 /NDF: 318265.0/16

Right Out: 86.073 $\pm$ 0.023 χ^2 /NDF: 991371.4/18

Left In: 80.067 $\pm$ 0.016 χ^2 /NDF: 424902.1/14

Left: 79.078 $\pm$ 0.011 χ^2 /NDF: 750058.8/31

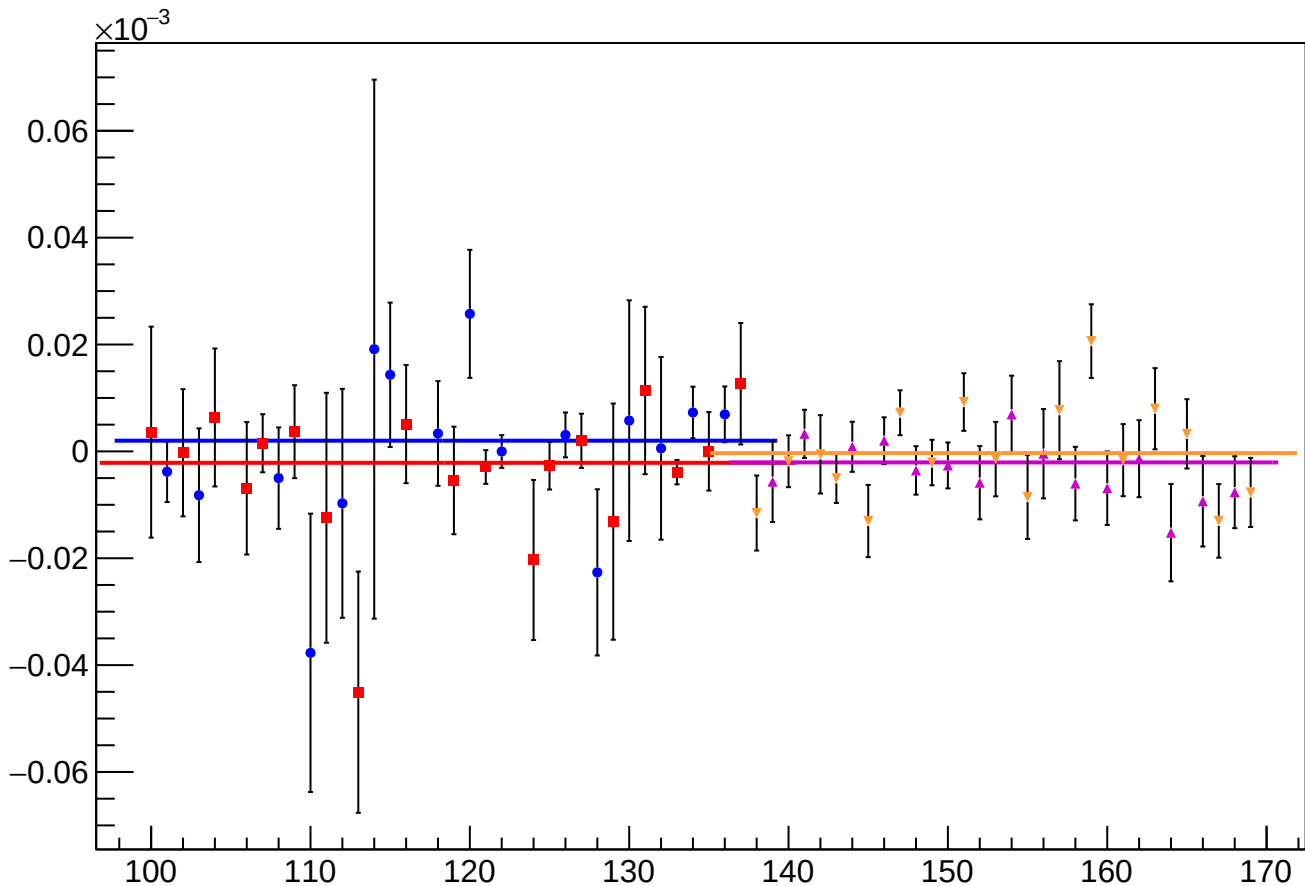
Right: 86.010 $\pm$ 0.017 χ^2 /NDF: 2026390.6/34

In: 81.971 $\pm$ 0.013 χ^2 /NDF: 1502027.7/30

Out: 80.564 $\pm$ 0.013 χ^2 /NDF: 1389307.2/35

All: 81.232 $\pm$ 0.009 χ^2 /NDF: 2897126.7/66

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.9/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:31.1/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 11.5/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:9.2/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 41.1/31

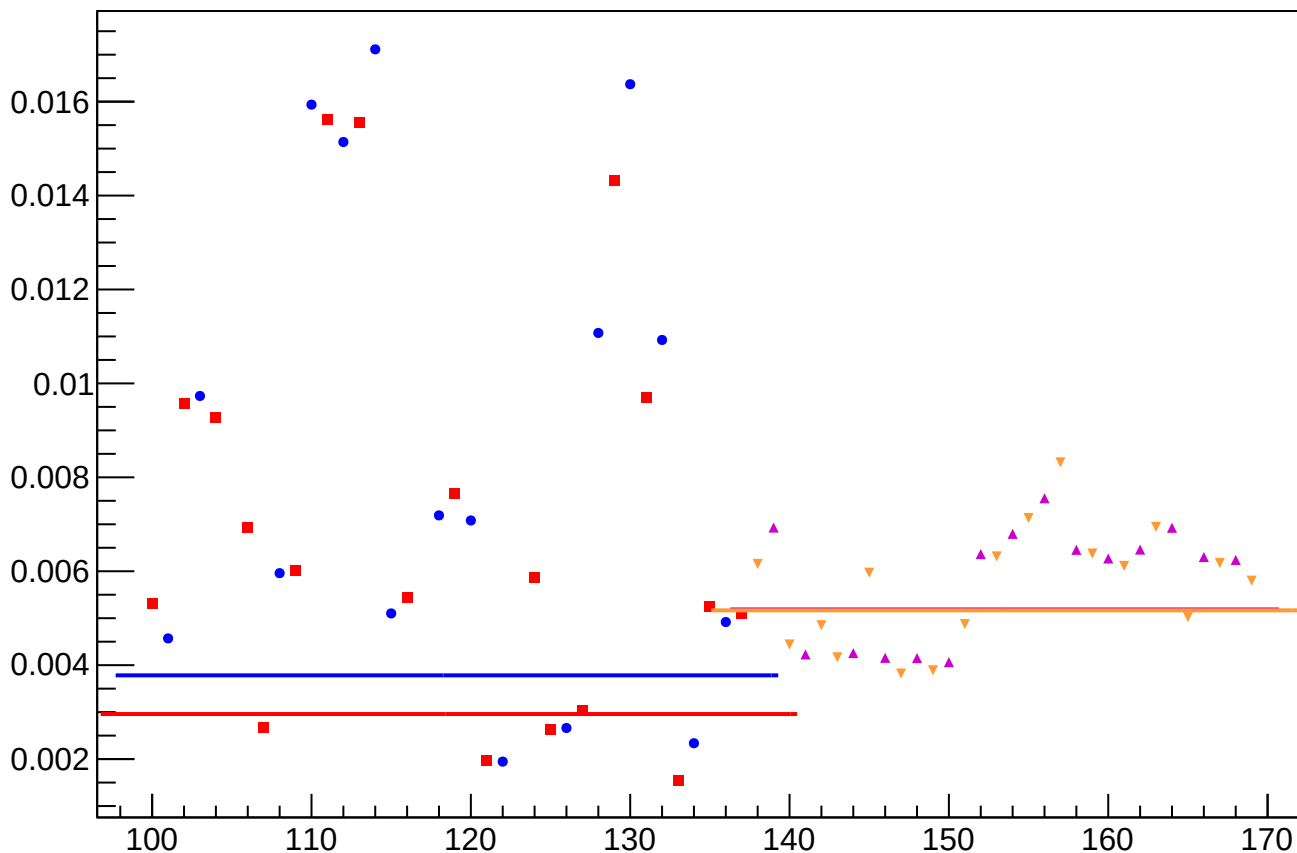
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 29.8/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:27.2/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:43.4/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 71.1/66

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 4694299.9/15

Left Out: 0.005+/-0.000 χ^2/NDF :1289971.6/16

Right Out: 0.003+/-0.000 χ^2/NDF : 5548113.4/18

Left In: 0.005+/-0.000 χ^2/NDF :1282396.9/14

Left: 0.005+/-0.000 χ^2/NDF : 2572544.6/31

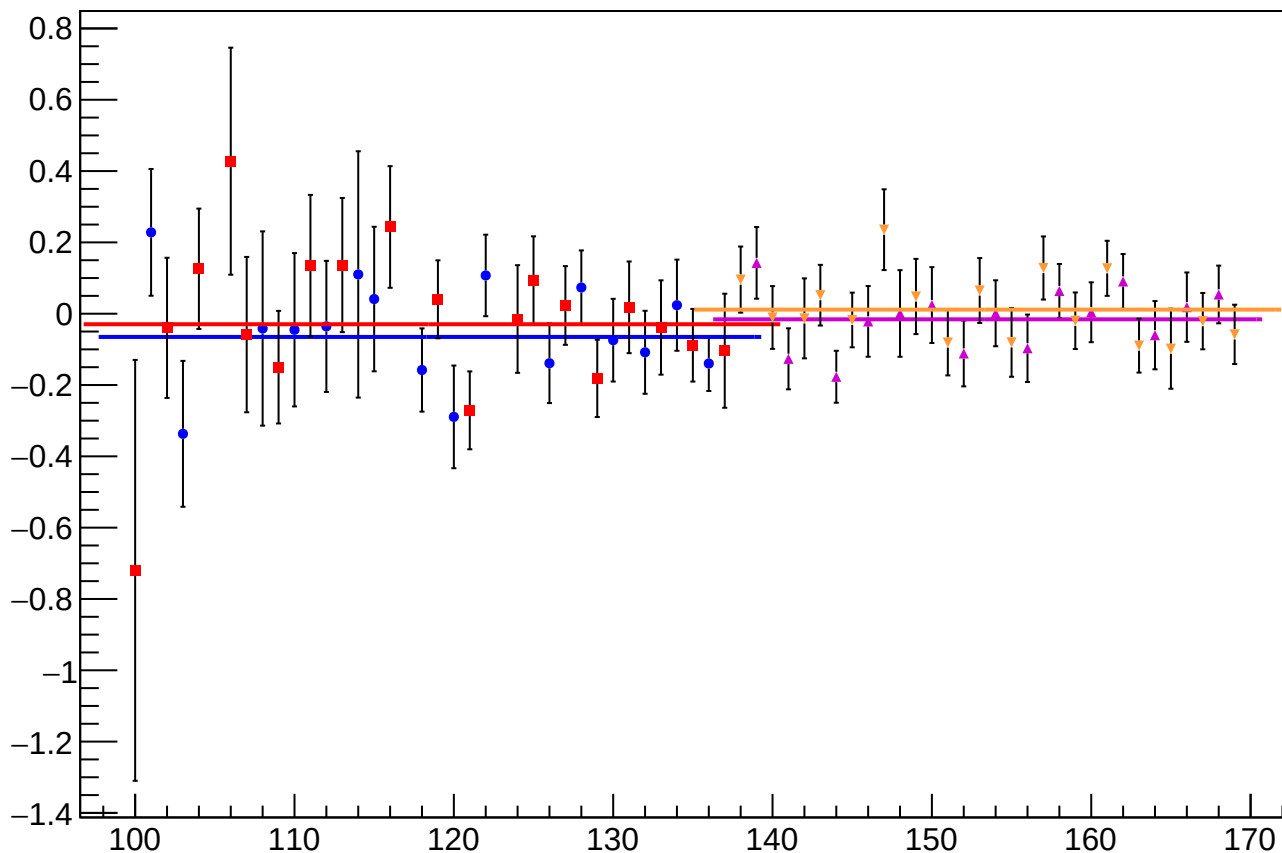
Right: 0.003+/-0.000 χ^2/NDF : 10513157.6/34

In: 0.005+/-0.000 χ^2/NDF :6710715.8/30

Out: 0.004+/-0.000 χ^2/NDF :9230961.1/35

All: 0.004+/-0.000 χ^2/NDF : 16207071.5/66

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.065 ± 0.033 χ^2/NDF : 14.2/15

Left Out: 0.011 ± 0.022 χ^2/NDF : 15.3/16

Right Out: -0.030 ± 0.033 χ^2/NDF : 18.1/18

Left In: -0.016 ± 0.023 χ^2/NDF : 15.2/14

Left: -0.001 ± 0.016 χ^2/NDF : 31.3/31

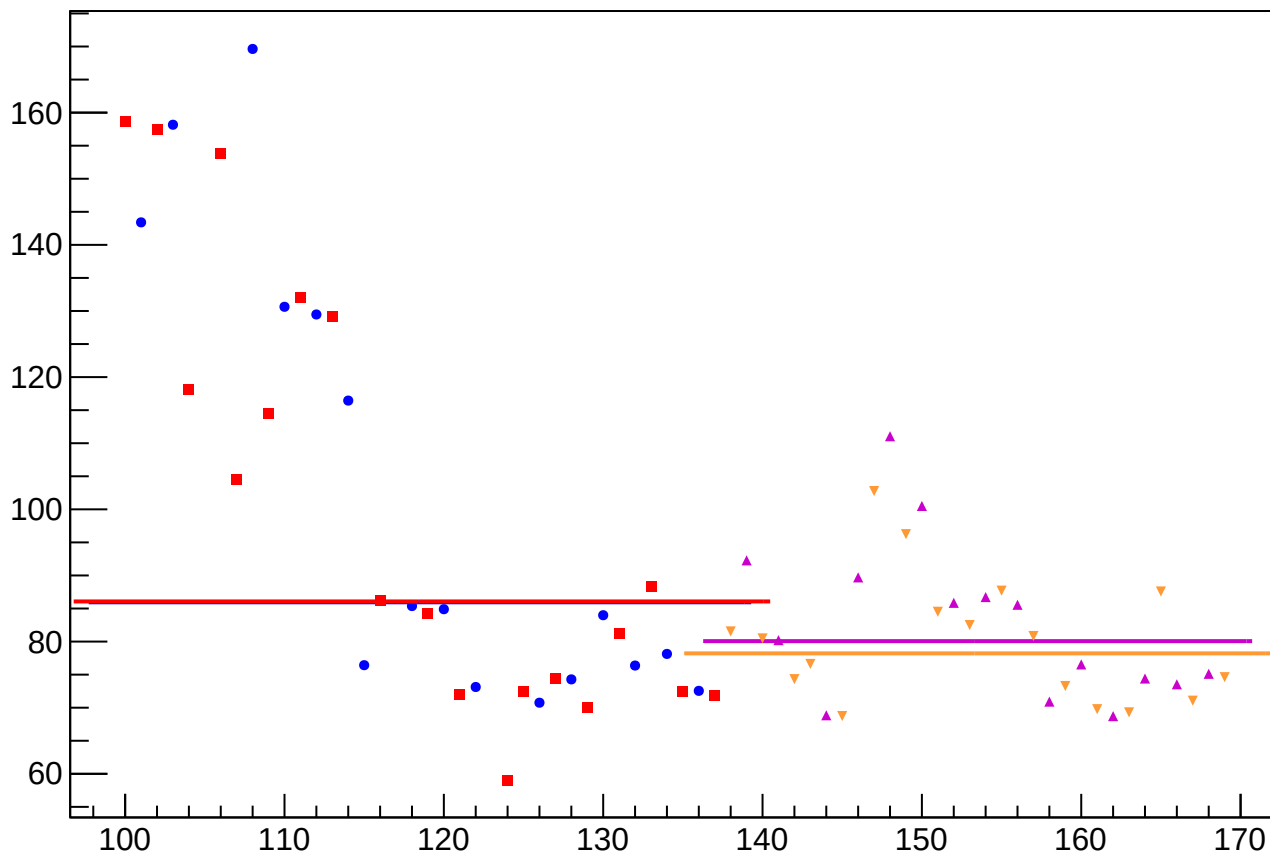
Right: -0.047 ± 0.023 χ^2/NDF : 32.8/34

In: -0.032 ± 0.019 χ^2/NDF : 30.9/30

Out: -0.001 ± 0.018 χ^2/NDF : 34.5/35

All: -0.015 ± 0.013 χ^2/NDF : 66.8/66

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 85.943 $\pm$ 0.024 χ^2/NDF : 1034986.7/15

Left Out: 78.216 $\pm$ 0.015 χ^2/NDF : 318312.7/16

Right Out: 86.070 $\pm$ 0.023 χ^2/NDF : 991365.2/18

Left In: 80.066 $\pm$ 0.016 χ^2/NDF : 424942.5/14

Left: 79.077 $\pm$ 0.011 χ^2/NDF : 750145.6/31

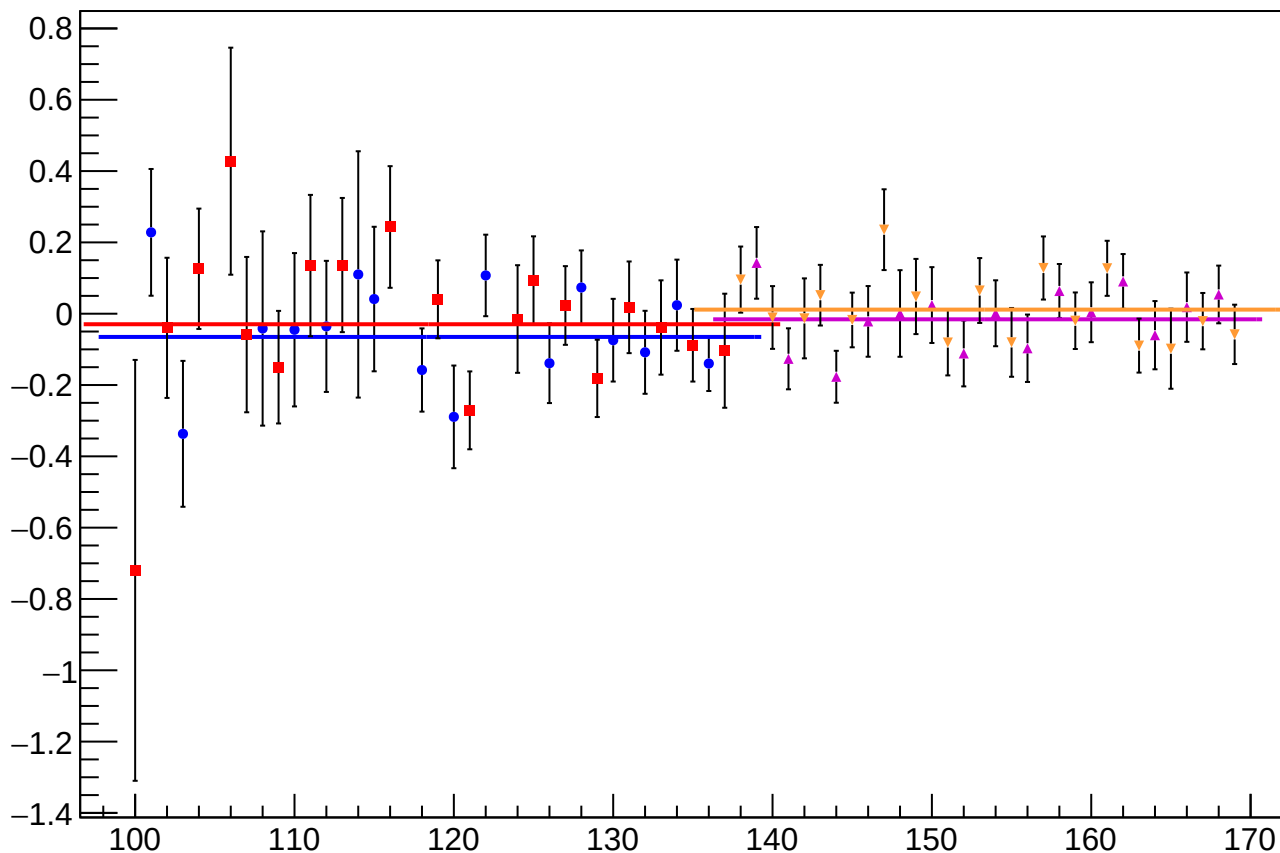
Right: 86.007 $\pm$ 0.017 χ^2/NDF : 2026366.7/34

In: 81.969 $\pm$ 0.013 χ^2/NDF : 1502028.5/30

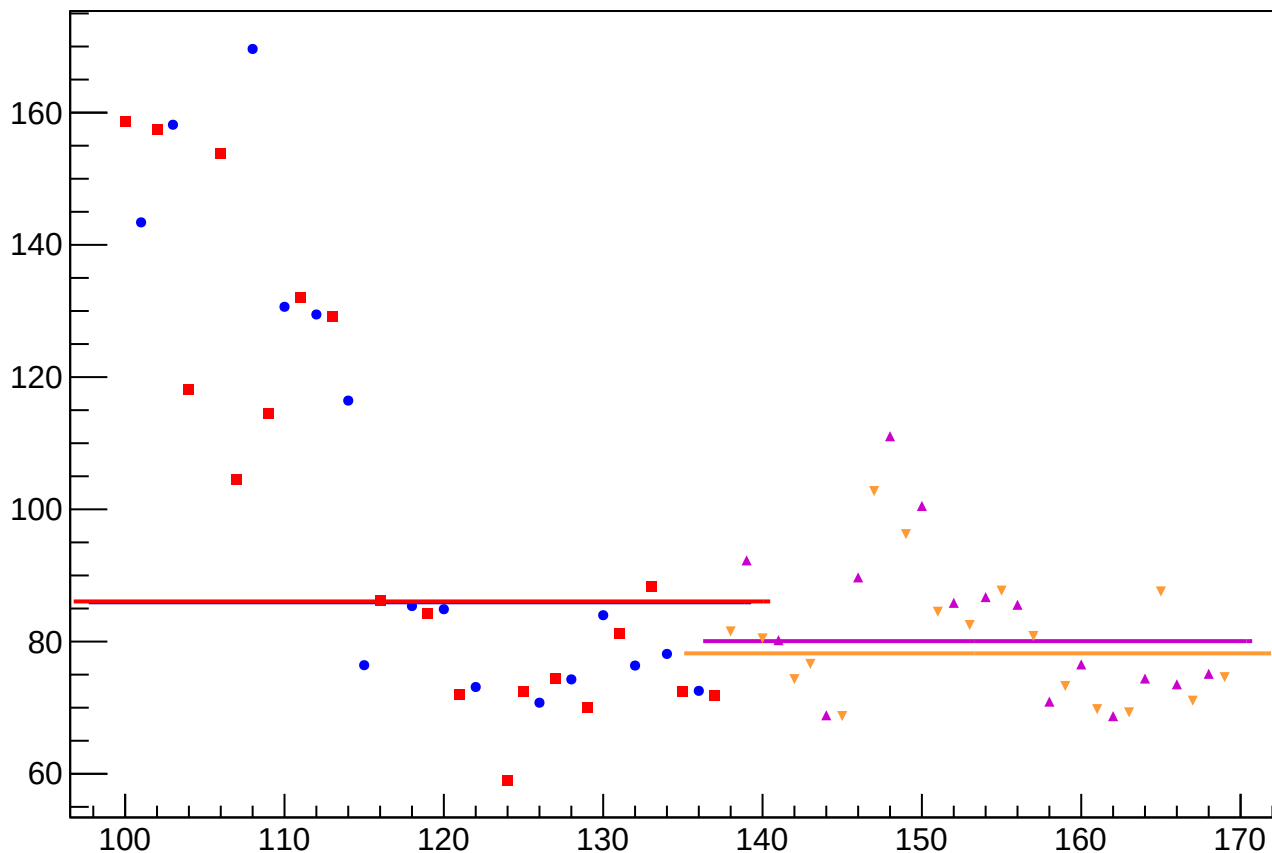
Out: 80.562 $\pm$ 0.013 χ^2/NDF : 1389321.6/35

All: 81.230 $\pm$ 0.009 χ^2/NDF : 2897139.7/66

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 85.943 $\pm$ 0.024 χ^2 /NDF: 1034986.7/15

Left Out: 78.216 $\pm$ 0.015 χ^2 /NDF:318312.7/16

Right Out: 86.070 $\pm$ 0.023 χ^2 /NDF: 991365.2/18

Left In: 80.066 $\pm$ 0.016 χ^2 /NDF:424942.5/14

Left: 79.077 $\pm$ 0.011 χ^2 /NDF: 750145.6/31

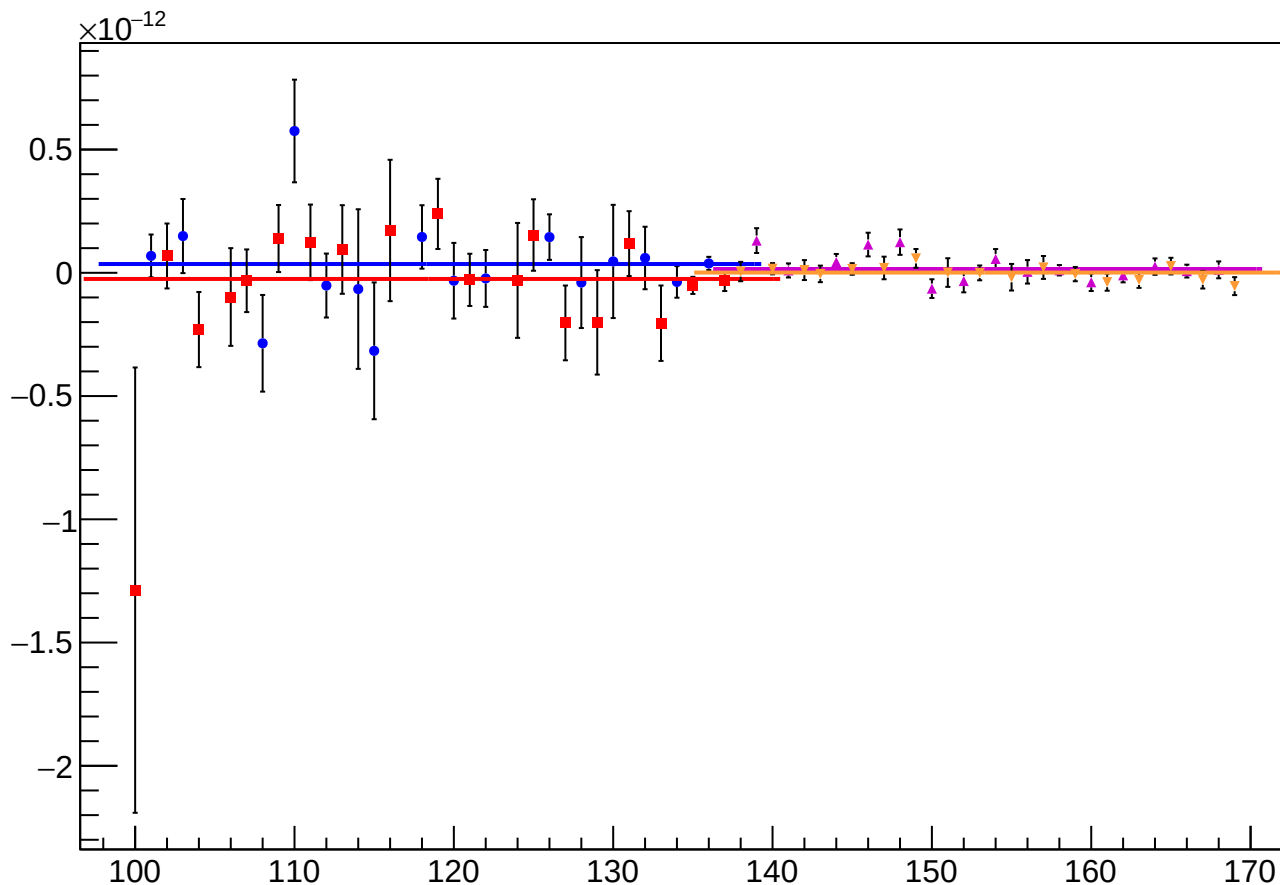
Right: 86.007 $\pm$ 0.017 χ^2 /NDF: 2026366.7/34

In: 81.969 $\pm$ 0.013 χ^2 /NDF:1502028.5/30

Out: 80.562 $\pm$ 0.013 χ^2 /NDF:1389321.6/35

All: 81.230 $\pm$ 0.009 χ^2 /NDF: 2897139.7/66

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 9.4/16

Right Out: -0.000+/-0.000 χ^2/NDF : 17.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 24.8/14

Left: 0.000+/-0.000 χ^2/NDF : 35.6/31

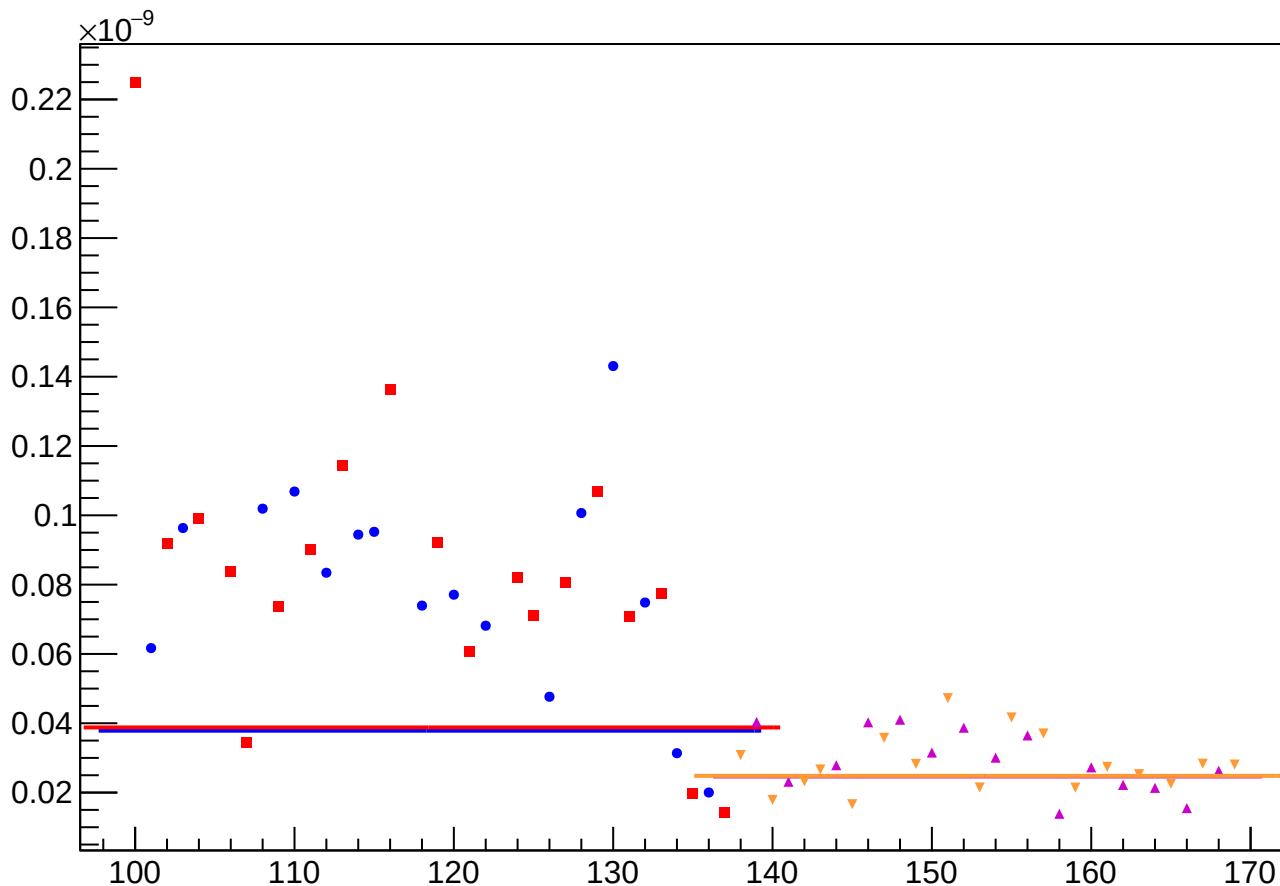
Right: 0.000+/-0.000 χ^2/NDF : 38.2/34

In: 0.000+/-0.000 χ^2/NDF : 41.9/30

Out: -0.000+/-0.000 χ^2/NDF : 28.5/35

All: 0.000+/-0.000 χ^2/NDF : 73.8/66

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3456922.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :1355397.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4121603.1/18

Left In: 0.000+/-0.000 χ^2/NDF :1869350.0/14

Left: 0.000+/-0.000 χ^2/NDF : 3225159.3/31

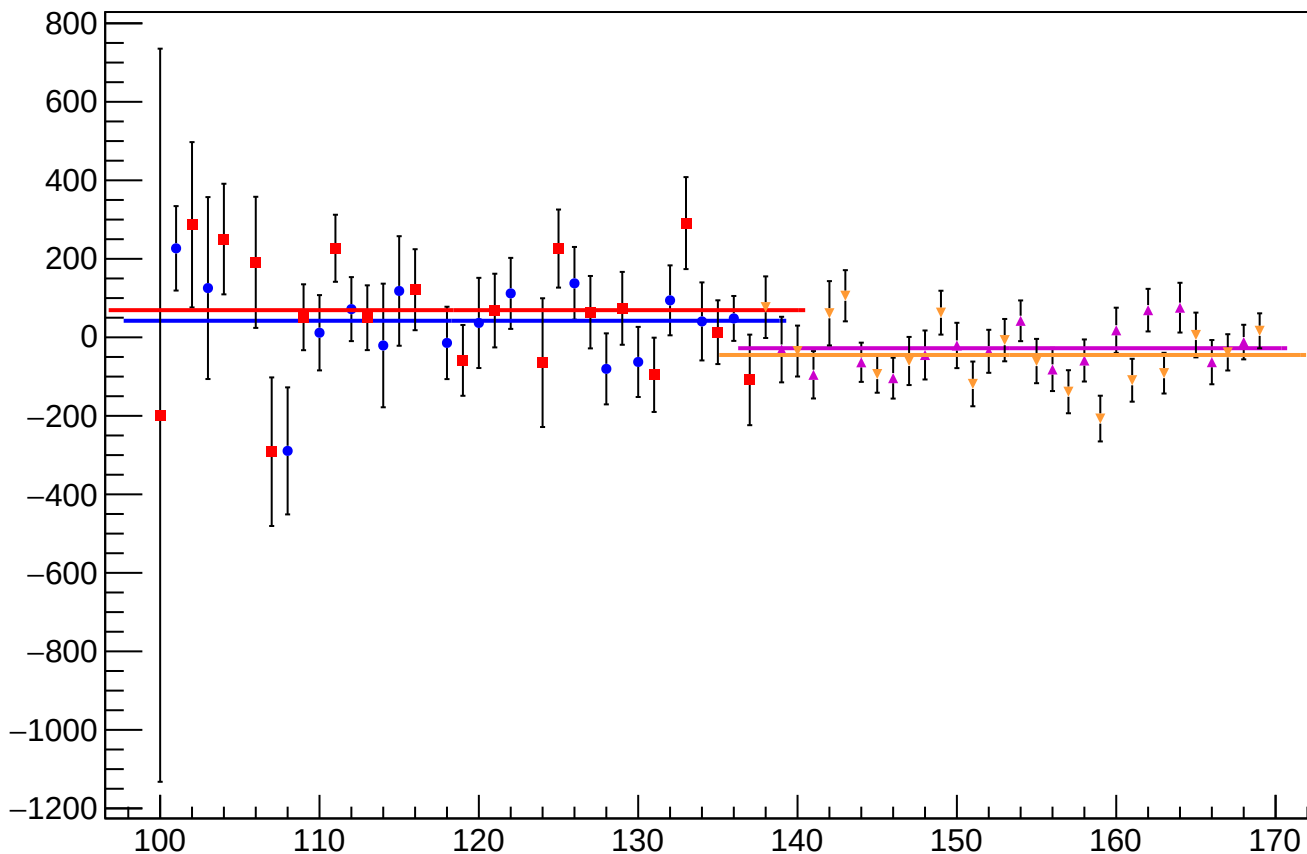
Right: 0.000+/-0.000 χ^2/NDF : 7580417.6/34

In: 0.000+/-0.000 χ^2/NDF :6020841.6/30

Out: 0.000+/-0.000 χ^2/NDF :6173005.0/35

All: 0.000+/-0.000 χ^2/NDF : 12194127.3/66

reg_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 42.220+/-24.207 χ^2/NDF : 13.6/15

Left Out: -44.930+/-13.618 χ^2/NDF : 32.1/16

Right Out: 69.249+/-24.418 χ^2/NDF : 25.4/18

Left In: -27.685+/-14.362 χ^2/NDF : 14.2/14

Left: -36.766+/-9.882 χ^2/NDF : 47.0/31

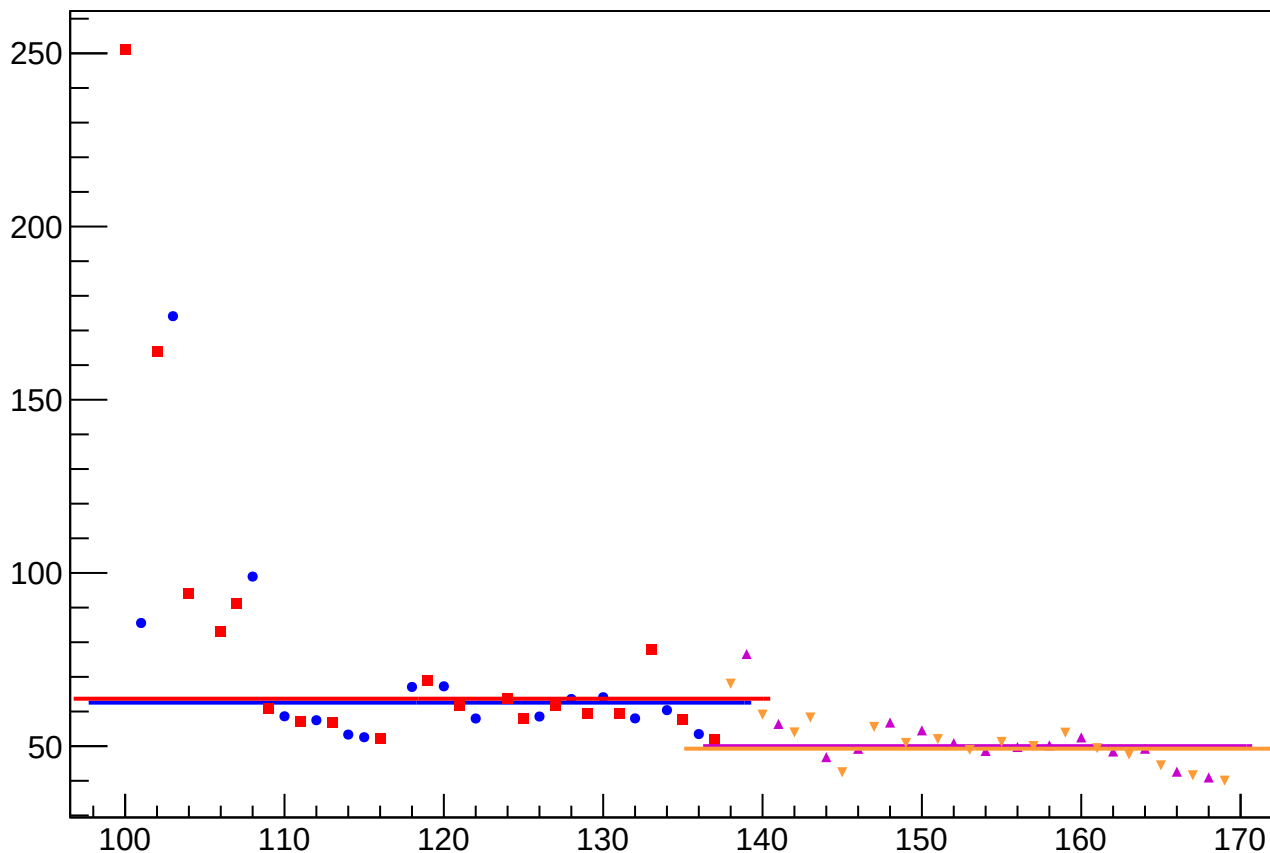
Right: 55.617+/-17.191 χ^2/NDF : 39.5/34

In: -9.484+/-12.352 χ^2/NDF : 33.9/30

Out: -17.842+/-11.893 χ^2/NDF : 74.1/35

All: -13.821+/-8.567 χ^2/NDF : 108.3/66

reg_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 62.566 $\pm$ 0.017 χ^2 /NDF: 758603.5/15

Left Out: 49.271 $\pm$ 0.010 χ^2 /NDF: 446224.5/16

Right Out: 63.699 $\pm$ 0.017 χ^2 /NDF: 834180.2/18

Left In: 49.999 $\pm$ 0.010 χ^2 /NDF: 396419.8/14

Left: 49.616 $\pm$ 0.007 χ^2 /NDF: 845348.8/31

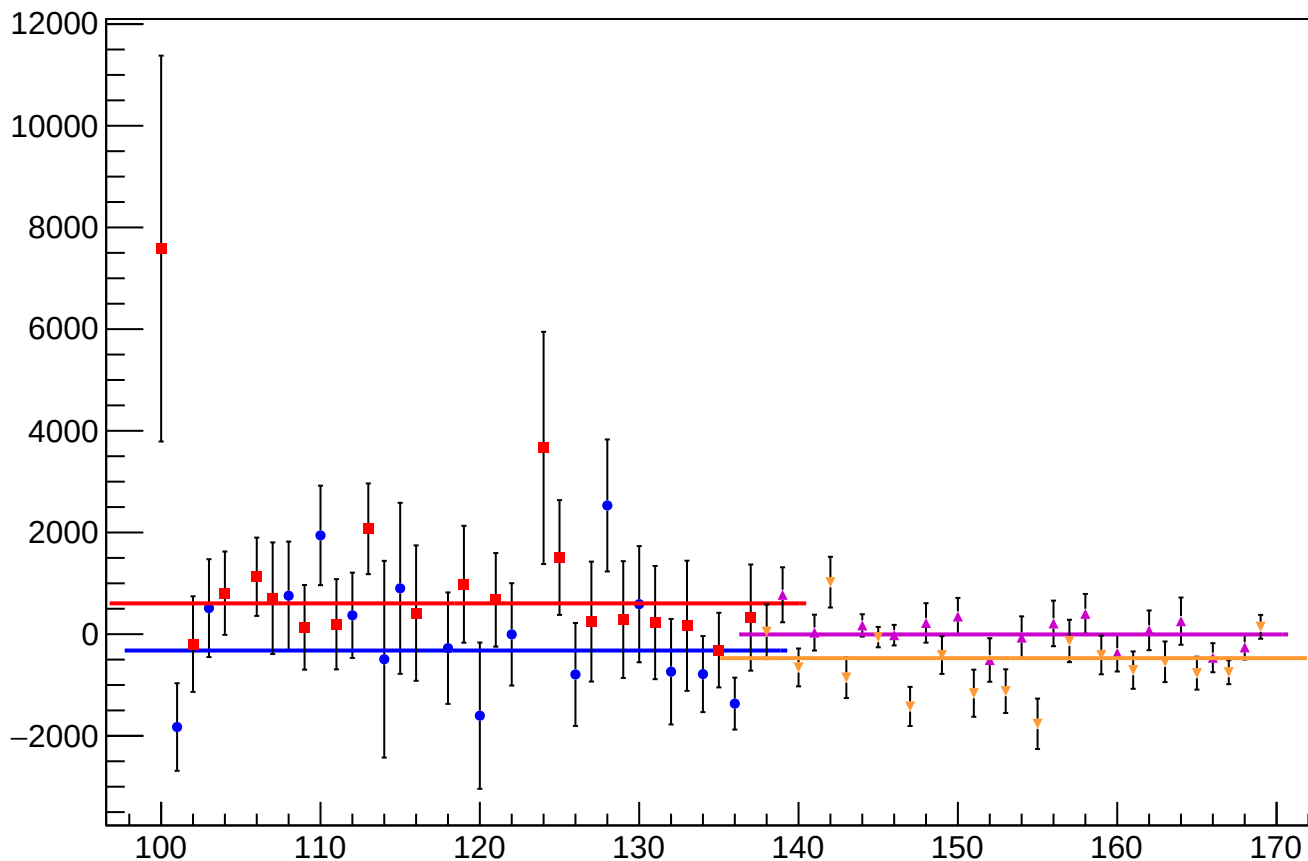
Right: 63.127 $\pm$ 0.012 χ^2 /NDF: 1594958.1/34

In: 53.271 $\pm$ 0.009 χ^2 /NDF: 1553678.5/30

Out: 52.694 $\pm$ 0.008 χ^2 /NDF: 1813011.6/35

All: 52.972 $\pm$ 0.006 χ^2 /NDF: 3368953.4/66

asym_sam_37_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -321.663+/-238.482 χ^2/NDF : 22.7/15

Left Out: -471.386+/-82.735 χ^2/NDF :43.0/16

Right Out: 605.859+/-233.643 χ^2/NDF : 12.5/18

Left In: -5.067+/-83.939 χ^2/NDF :11.8/14

Left: -241.597+/-58.924 χ^2/NDF : 70.4/31

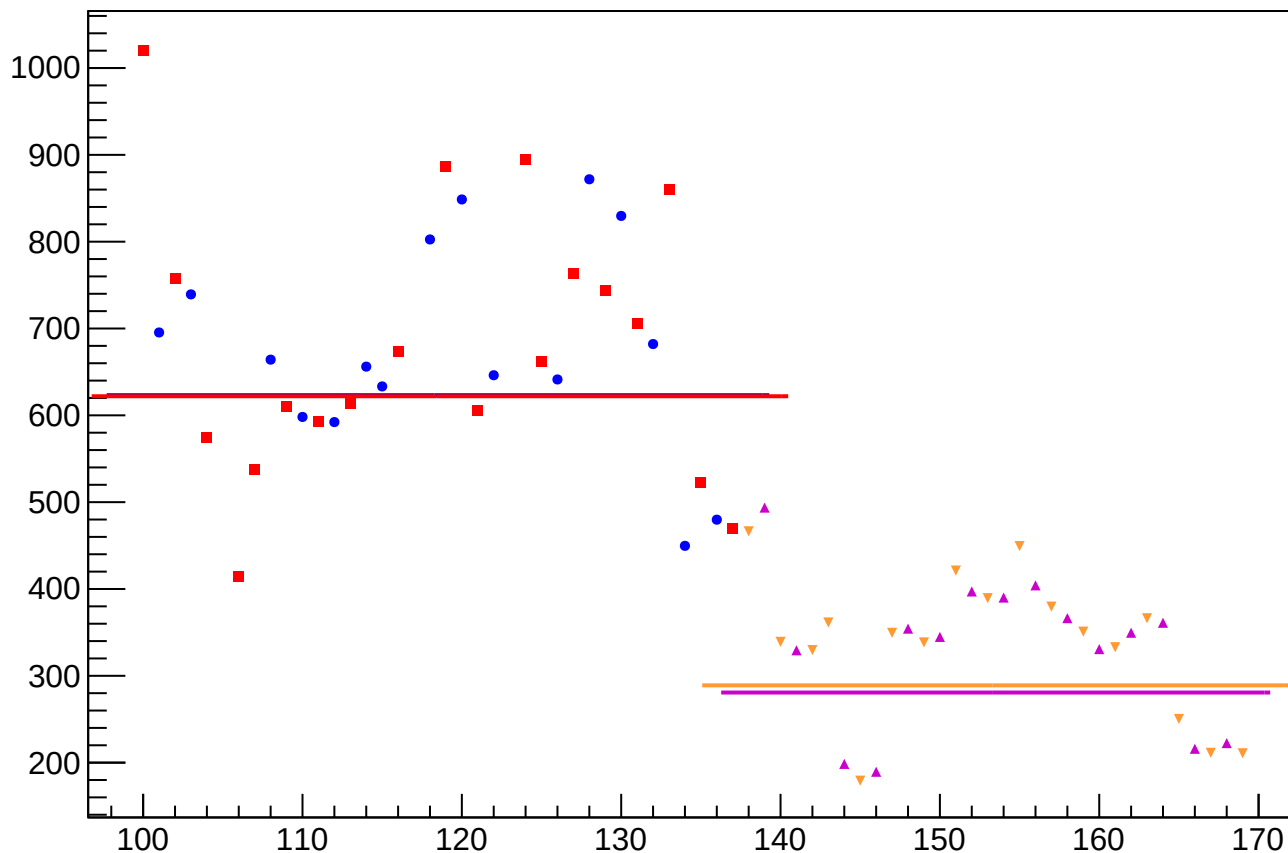
Right: 151.604+/-166.895 χ^2/NDF : 42.9/34

In: -39.965+/-79.178 χ^2/NDF :36.1/30

Out: -351.358+/-77.990 χ^2/NDF :74.3/35

All: -198.016+/-55.562 χ^2/NDF : 118.3/66

asym_sam_37_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 623.181+/-0.169 χ^2/NDF : 565524.7/15

Left Out: 289.011+/-0.059 χ^2/NDF : 2219756.1/16

Right Out: 621.975+/-0.165 χ^2/NDF : 582591.9/18

Left In: 280.750+/-0.059 χ^2/NDF : 2082333.3/14

Left: 284.940+/-0.042 χ^2/NDF : 4311916.0/31

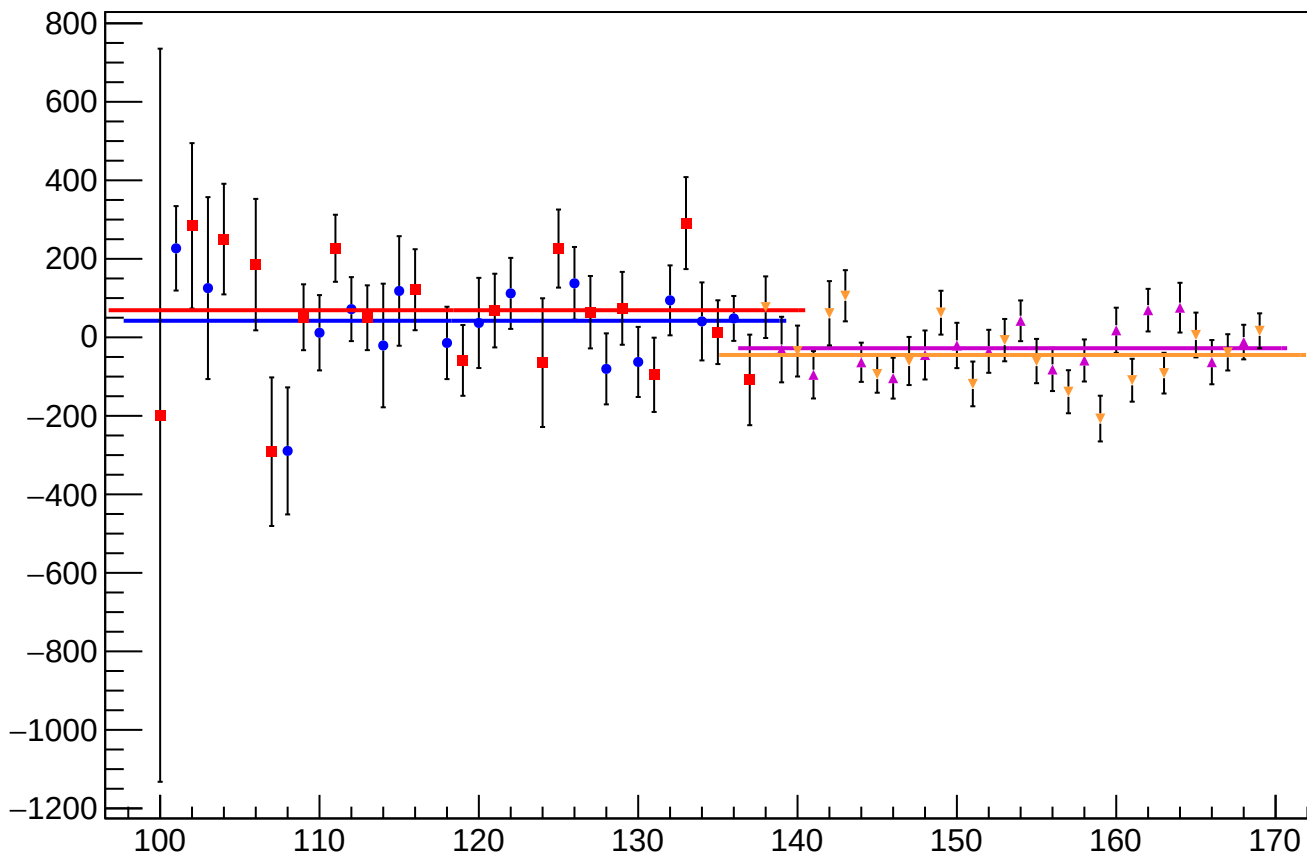
Right: 622.565+/-0.118 χ^2/NDF : 1148142.8/34

In: 318.496+/-0.056 χ^2/NDF : 6316809.1/30

Out: 326.110+/-0.055 χ^2/NDF : 6411566.5/35

All: 322.361+/-0.039 χ^2/NDF : 12737764.1/60

cor_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 42.213+/-24.207 χ^2/NDF : 13.6/15

Left Out: -44.927+/-13.618 χ^2/NDF :32.1/16

Right Out: 69.068+/-24.420 χ^2/NDF : 25.3/18

Left In: -27.684+/-14.362 χ^2/NDF :14.2/14

Left: -36.764+/-9.882 χ^2/NDF : 47.0/31

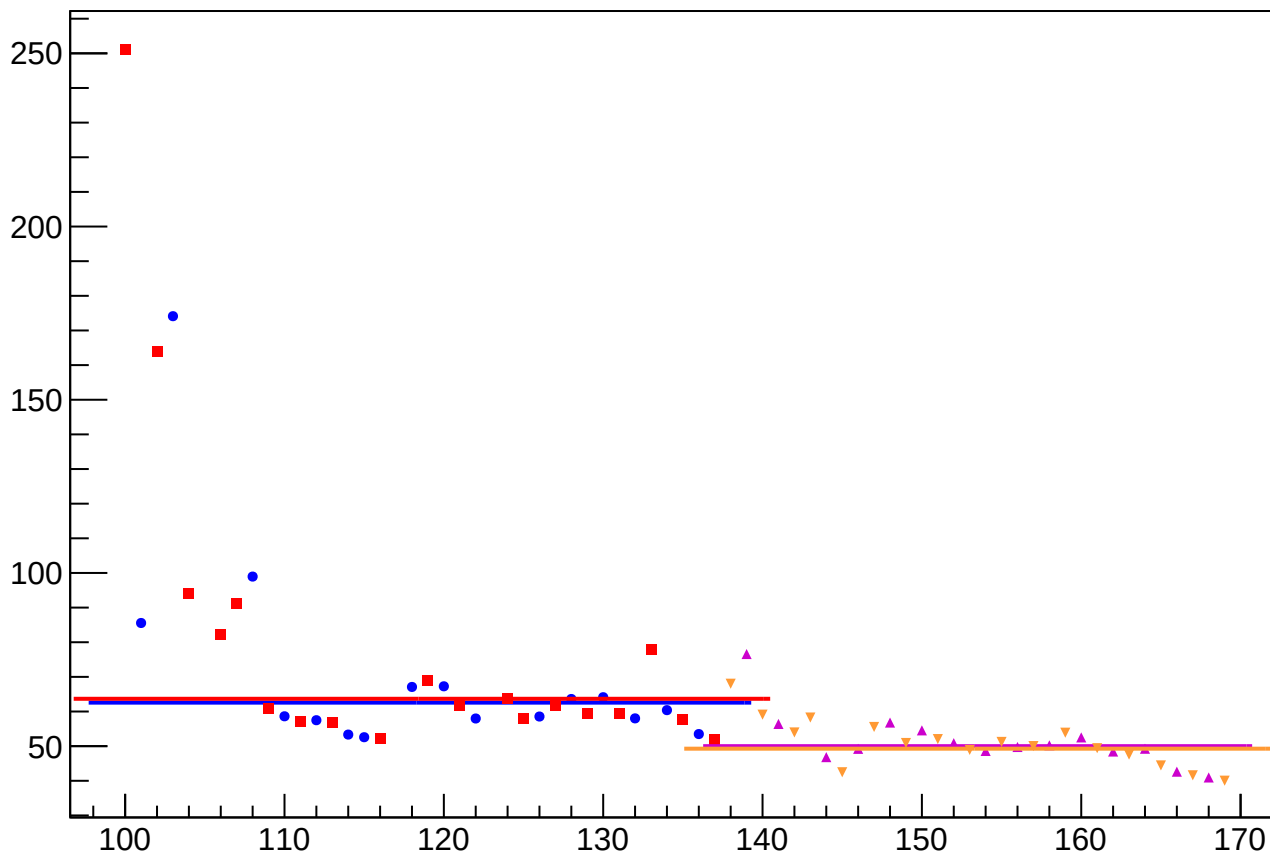
Right: 55.523+/-17.192 χ^2/NDF : 39.4/34

In: -9.485+/-12.352 χ^2/NDF :33.9/30

Out: -17.885+/-11.894 χ^2/NDF :74.0/35

All: -13.844+/-8.568 χ^2/NDF : 108.1/66

cor_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 62.566 $\pm$ 0.017 χ^2 /NDF: 758605.6/15

Left Out: 49.271 $\pm$ 0.010 χ^2 /NDF: 446224.4/16

Right Out: 63.675 $\pm$ 0.017 χ^2 /NDF: 831432.5/18

Left In: 49.999 $\pm$ 0.010 χ^2 /NDF: 396419.8/14

Left: 49.616 $\pm$ 0.007 χ^2 /NDF: 845348.7/31

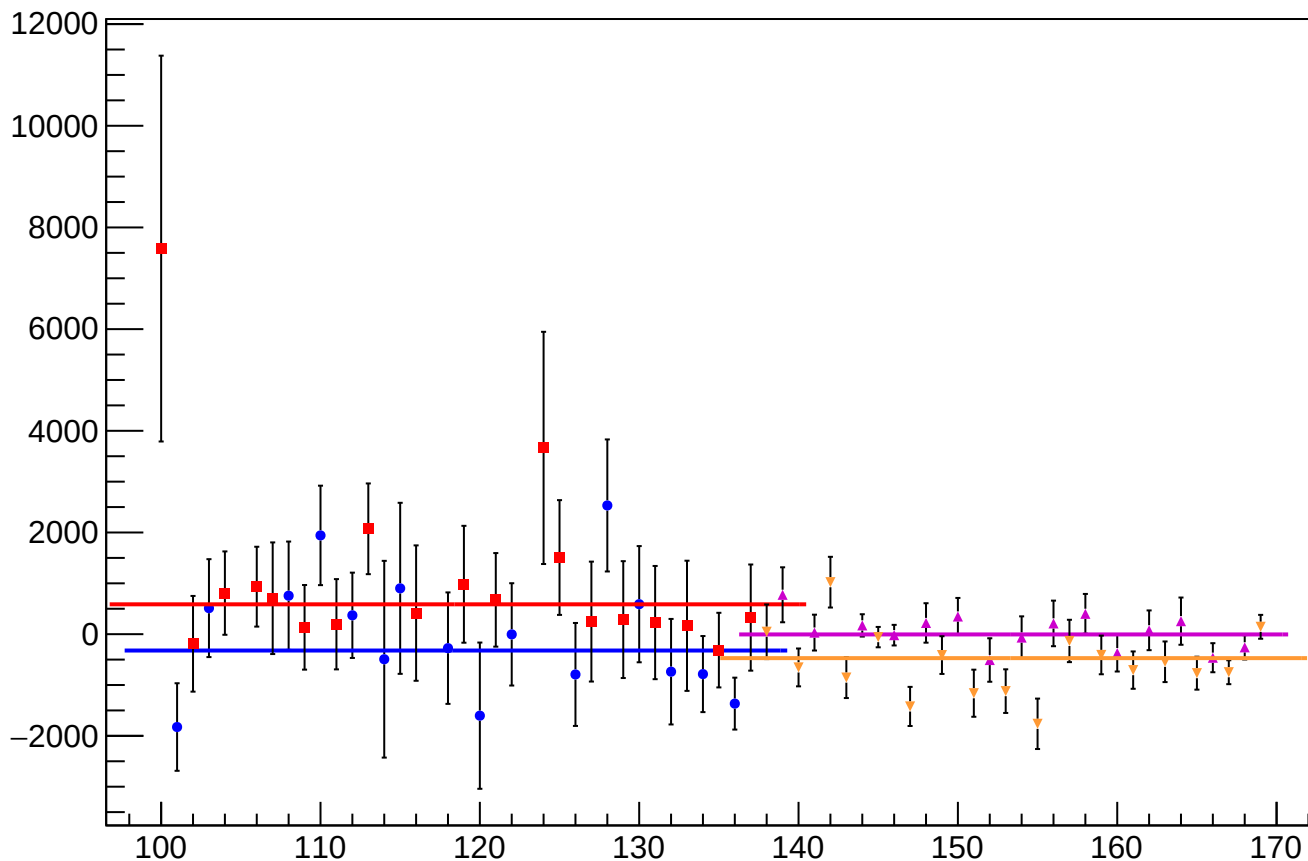
Right: 63.115 $\pm$ 0.012 χ^2 /NDF: 1592120.8/34

In: 53.271 $\pm$ 0.009 χ^2 /NDF: 1553680.4/30

Out: 52.688 $\pm$ 0.008 χ^2 /NDF: 1808433.9/35

All: 52.968 $\pm$ 0.006 χ^2 /NDF: 3364425.2/66

asym_sam_37_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -321.660+/-238.484 χ^2/NDF : 22.7/15

Left Out: -471.380+/-82.735 χ^2/NDF : 43.0/16

Right Out: 587.224+/-234.080 χ^2/NDF : 12.2/18

Left In: -5.064+/-83.939 χ^2/NDF : 11.8/14

Left: -241.592+/-58.924 χ^2/NDF : 70.4/31

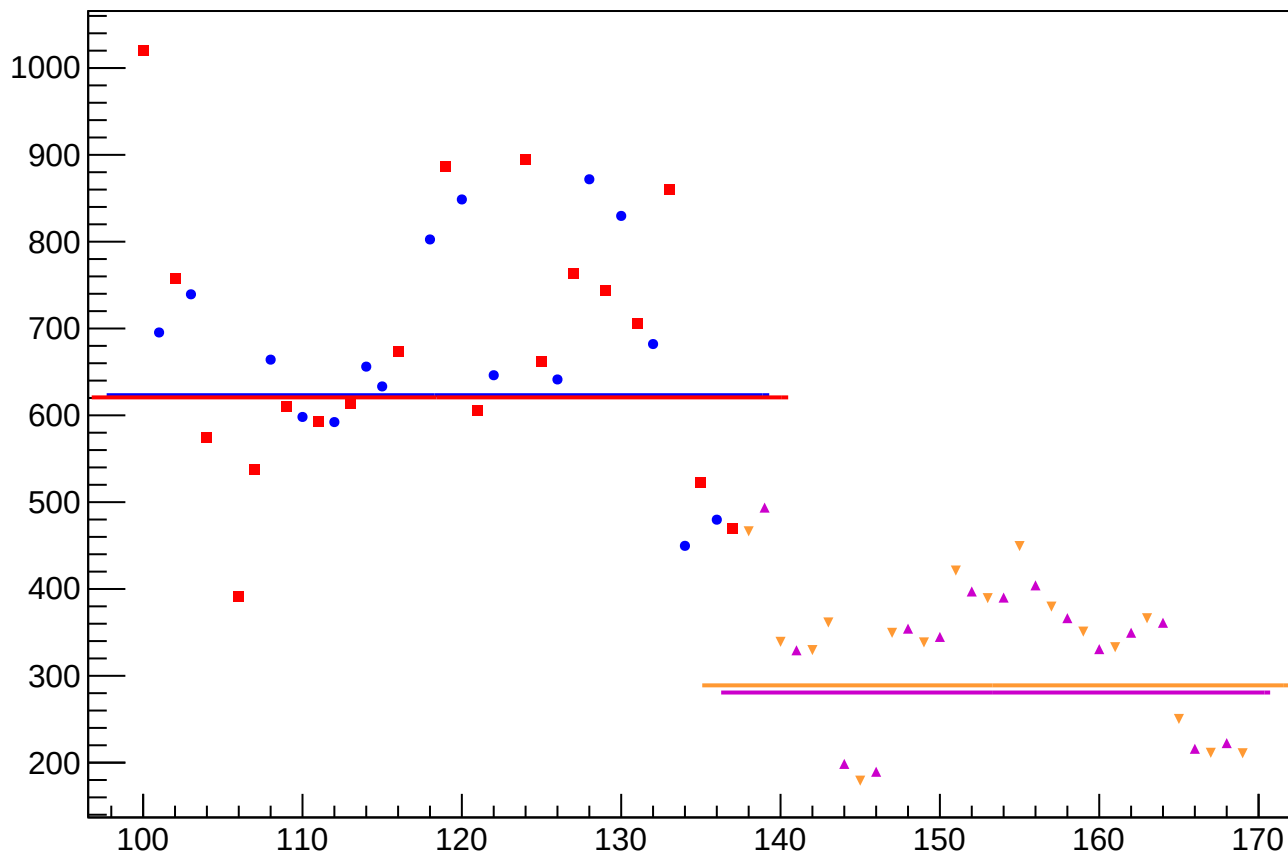
Right: 141.251+/-167.055 χ^2/NDF : 42.3/34

In: -39.961+/-79.178 χ^2/NDF : 36.1/30

Out: -353.821+/-78.006 χ^2/NDF : 73.3/35

All: -199.232+/-55.568 χ^2/NDF : 117.4/66

asym_sam_37_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 623.184+/-0.169 χ^2/NDF : 565557.0/15

Left Out: 289.011+/-0.059 χ^2/NDF : 2219770.6/16

Right Out: 620.673+/-0.166 χ^2/NDF : 610523.8/18

Left In: 280.750+/-0.059 χ^2/NDF : 2082337.6/14

Left: 284.940+/-0.042 χ^2/NDF : 4311934.2/31

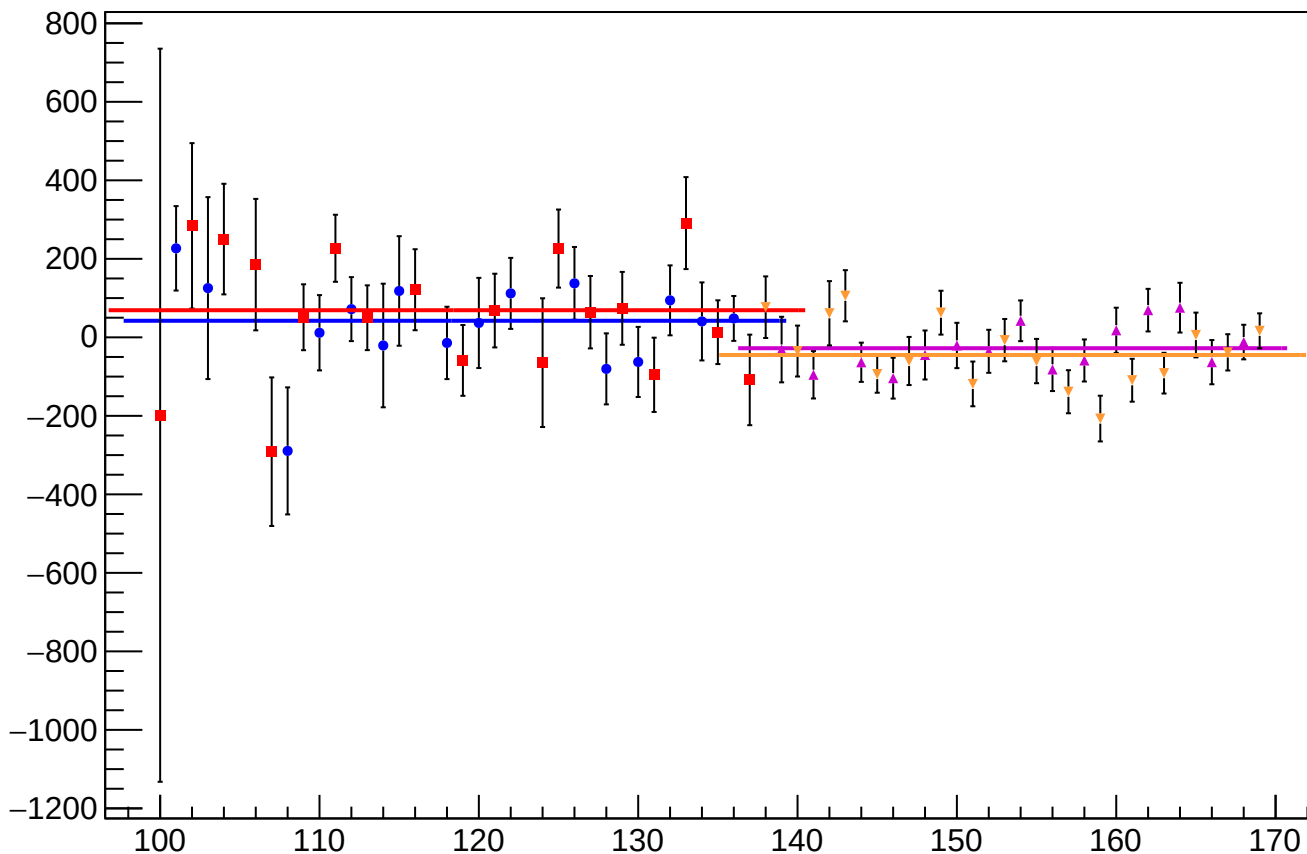
Right: 621.905+/-0.118 χ^2/NDF : 1176193.8/34

In: 318.496+/-0.056 χ^2/NDF : 6316871.9/30

Out: 325.842+/-0.055 χ^2/NDF : 6399485.0/35

All: 322.224+/-0.039 χ^2/NDF : 12725095.1/60

eigen_cor_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 42.213+/-24.207 χ^2/NDF : 13.6/15

Left Out: -44.927+/-13.618 χ^2/NDF :32.1/16

Right Out: 69.068+/-24.420 χ^2/NDF : 25.3/18

Left In: -27.684+/-14.362 χ^2/NDF :14.2/14

Left: -36.764+/-9.882 χ^2/NDF : 47.0/31

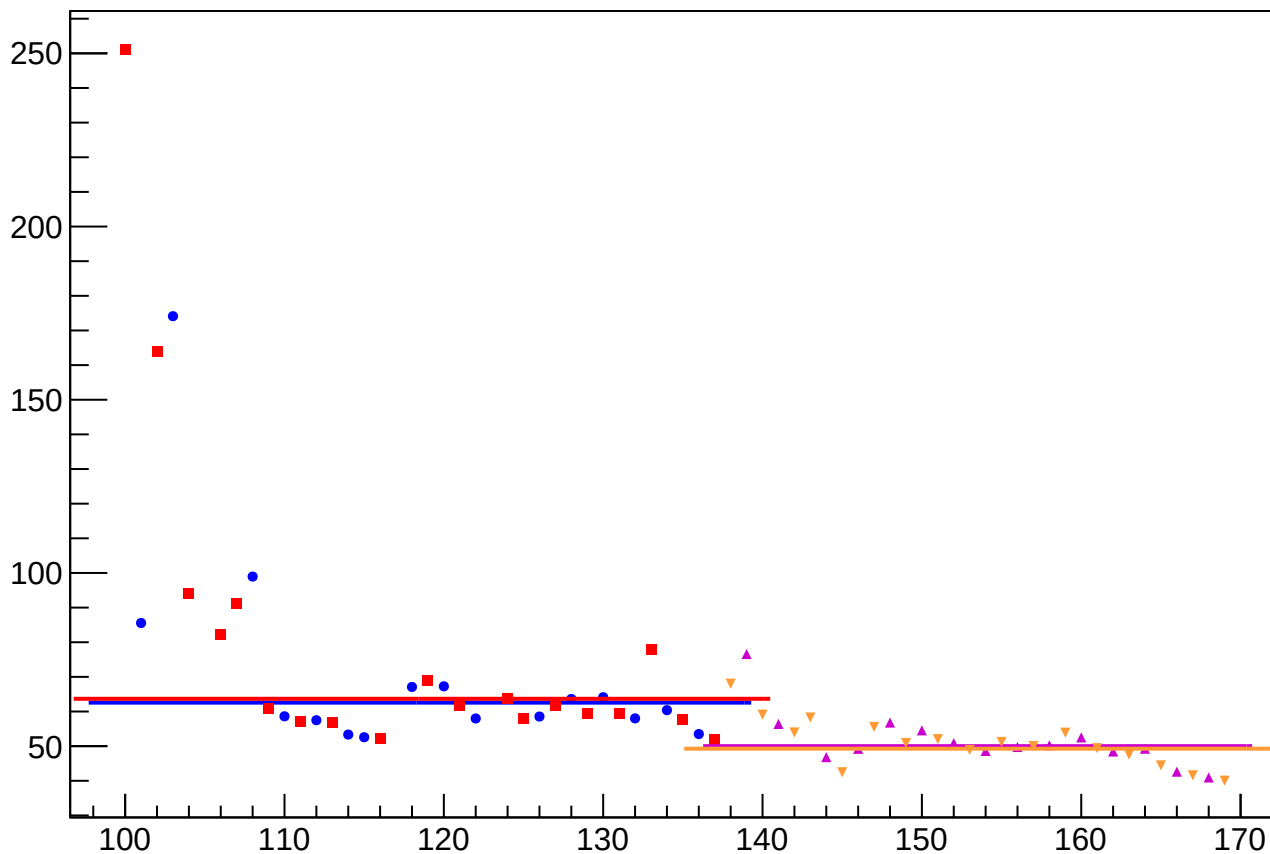
Right: 55.523+/-17.192 χ^2/NDF : 39.4/34

In: -9.485+/-12.352 χ^2/NDF :33.9/30

Out: -17.885+/-11.894 χ^2/NDF :74.0/35

All: -13.844+/-8.568 χ^2/NDF : 108.1/66

eigen_cor_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 62.566+/-0.017 χ^2/NDF : 758605.6/15

Left Out: 49.271+/-0.010 χ^2/NDF : 446224.4/16

Right Out: 63.675+/-0.017 χ^2/NDF : 831432.5/18

Left In: 49.999+/-0.010 χ^2/NDF : 396419.8/14

Left: 49.616+/-0.007 χ^2/NDF : 845348.7/31

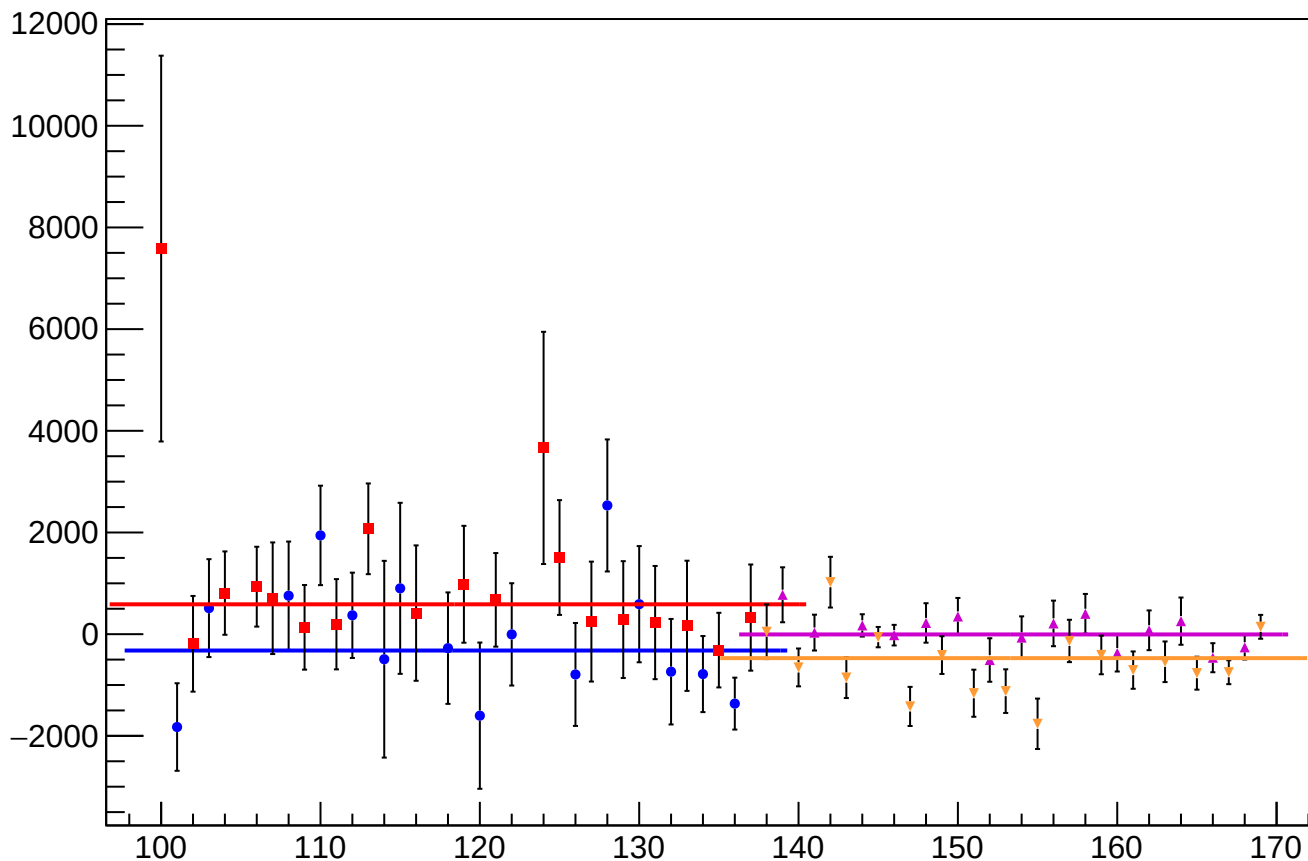
Right: 63.115+/-0.012 χ^2/NDF : 1592120.8/34

In: 53.271+/-0.009 χ^2/NDF : 1553680.4/30

Out: 52.688+/-0.008 χ^2/NDF : 1808433.9/35

All: 52.968+/-0.006 χ^2/NDF : 3364425.2/66

asym_sam_37_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -321.660+/-238.484 χ^2 /NDF: 22.7/15

Left Out: -471.380+/-82.735 χ^2 /NDF:43.0/16

Right Out: 587.224+/-234.080 χ^2 /NDF: 12.2/18

Left In: -5.064+/-83.939 χ^2 /NDF:11.8/14

Left: -241.592+/-58.924 χ^2 /NDF: 70.4/31

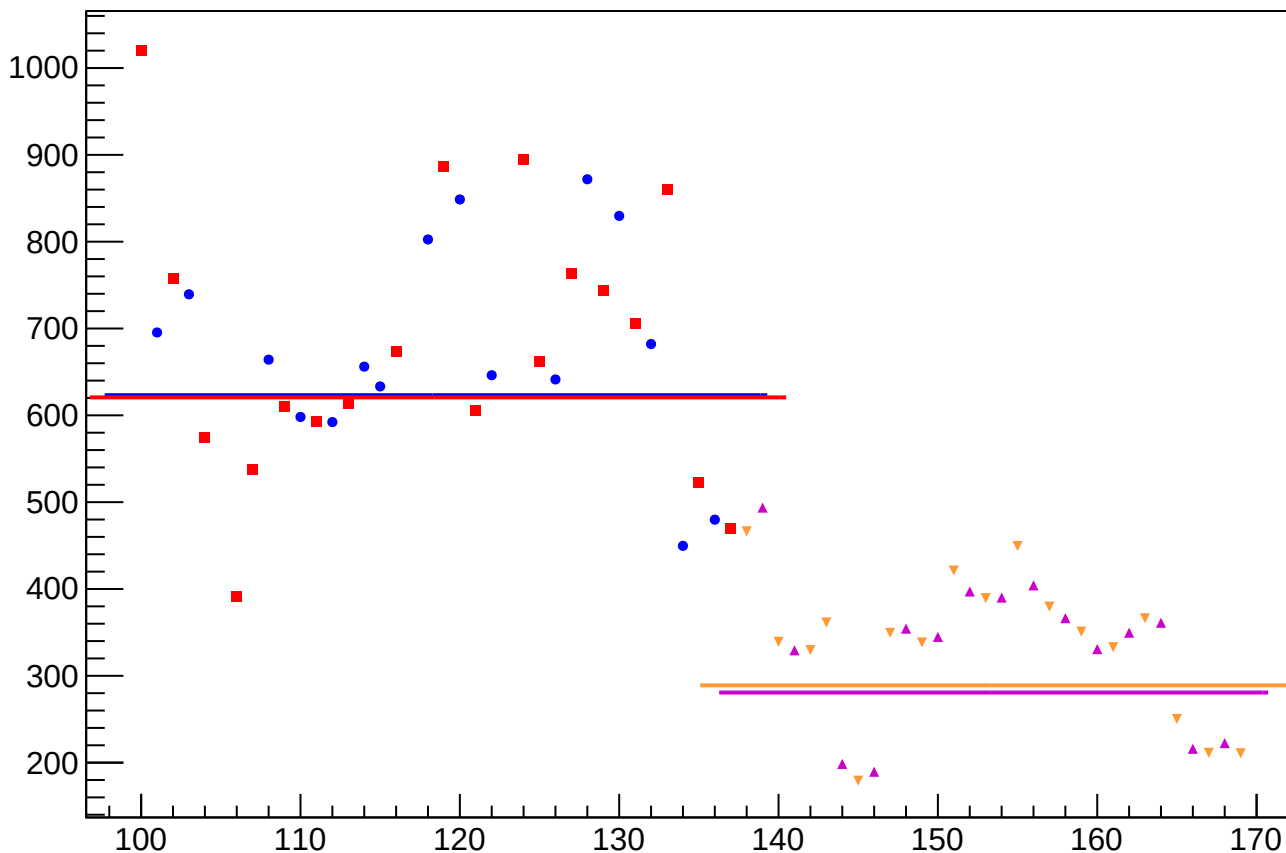
Right: 141.251+/-167.055 χ^2 /NDF: 42.3/34

In: -39.961+/-79.178 χ^2 /NDF:36.1/30

Out: -353.821+/-78.006 χ^2 /NDF:73.3/35

All: -199.232+/-55.568 χ^2 /NDF: 117.4/66

asym_sam_37_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 623.184+/-0.169 χ^2/NDF : 565557.0/15

Left Out: 289.011+/-0.059 χ^2/NDF : 2219770.6/16

Right Out: 620.673+/-0.166 χ^2/NDF : 610523.8/18

Left In: 280.750+/-0.059 χ^2/NDF : 2082337.6/14

Left: 284.940+/-0.042 χ^2/NDF : 4311934.2/31

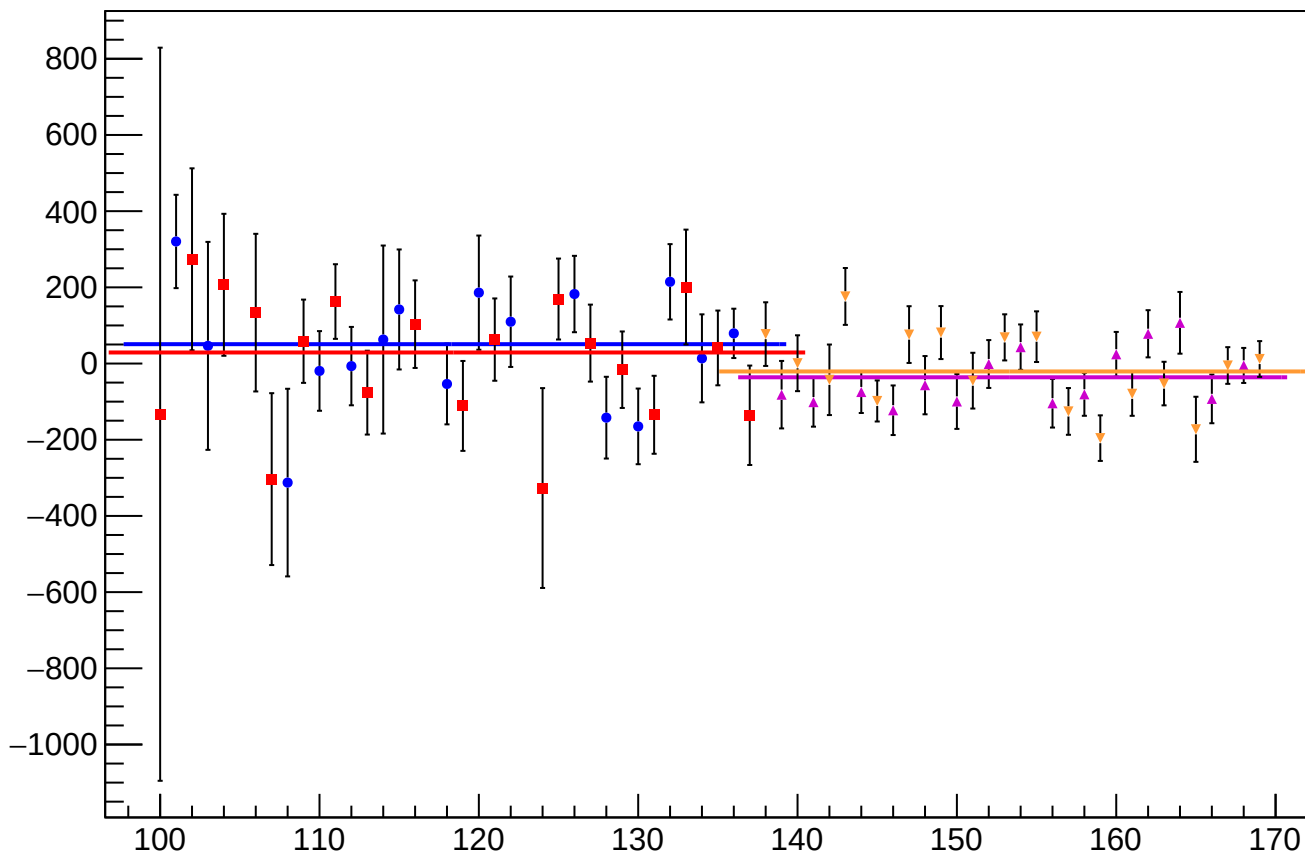
Right: 621.905+/-0.118 χ^2/NDF : 1176193.8/34

In: 318.496+/-0.056 χ^2/NDF : 6316871.9/30

Out: 325.842+/-0.055 χ^2/NDF : 6399485.0/35

All: 322.224+/-0.039 χ^2/NDF : 12725095.1/60

dit_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 50.840 $\pm$ 28.316 χ^2 /NDF: 22.9/15

Left Out: -20.770 $\pm$ 15.405 χ^2 /NDF:35.1/16

Right Out: 29.040 $\pm$ 28.910 χ^2 /NDF: 18.5/18

Left In: -36.082 $\pm$ 16.195 χ^2 /NDF:17.0/14

Left: -28.044 $\pm$ 11.162 χ^2 /NDF: 52.7/31

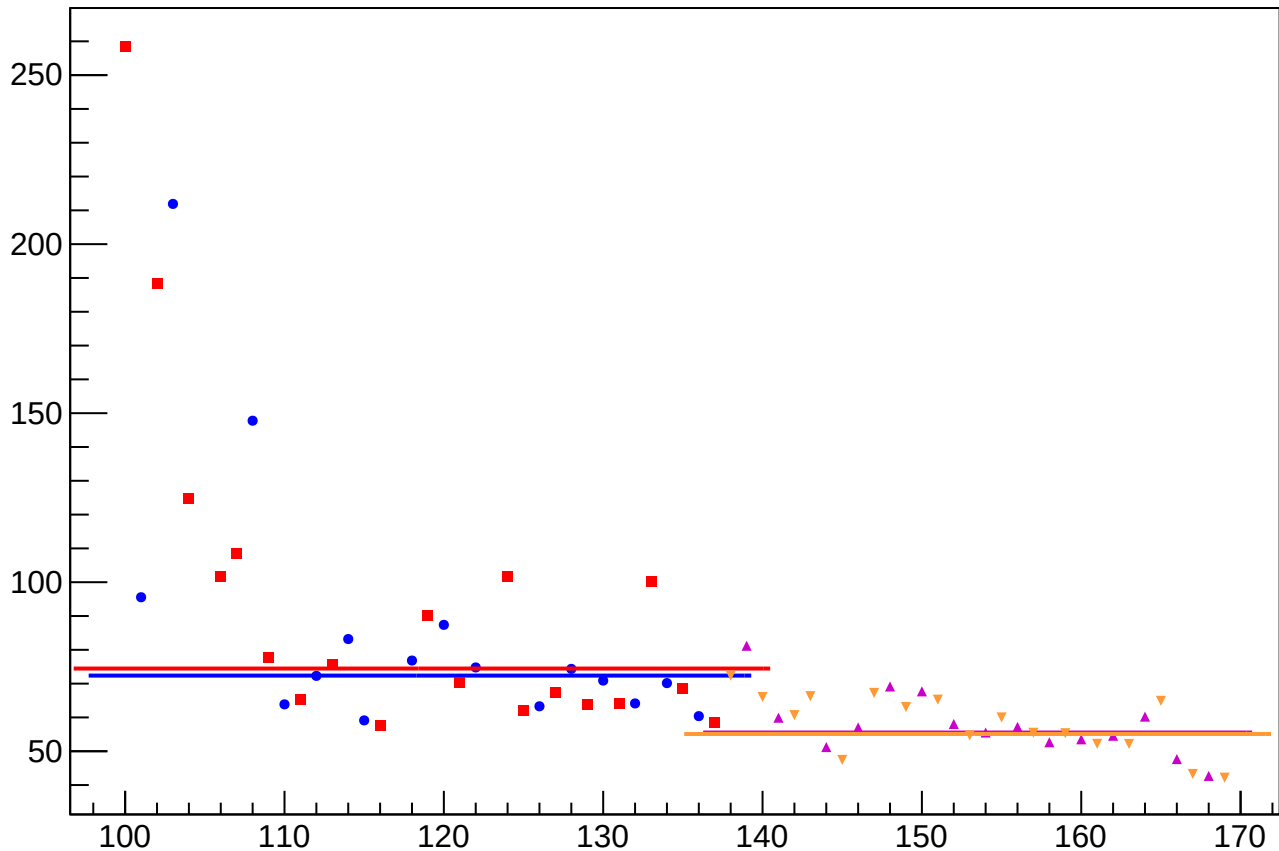
Right: 40.166 $\pm$ 20.229 χ^2 /NDF: 41.7/34

In: -14.657 $\pm$ 14.058 χ^2 /NDF:47.0/30

Out: -9.755 $\pm$ 13.595 χ^2 /NDF:56.0/35

All: -12.124 $\pm$ 9.773 χ^2 /NDF: 103.0/66

dit_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 72.378 $\pm$ 0.020 χ^2 /NDF: 938175.3/15

Left Out: 55.106 $\pm$ 0.011 χ^2 /NDF: 660386.4/16

Right Out: 74.463 $\pm$ 0.020 χ^2 /NDF: 1052296.6/18

Left In: 55.534 $\pm$ 0.011 χ^2 /NDF: 516409.5/14

Left: 55.310 $\pm$ 0.008 χ^2 /NDF: 1177529.7/31

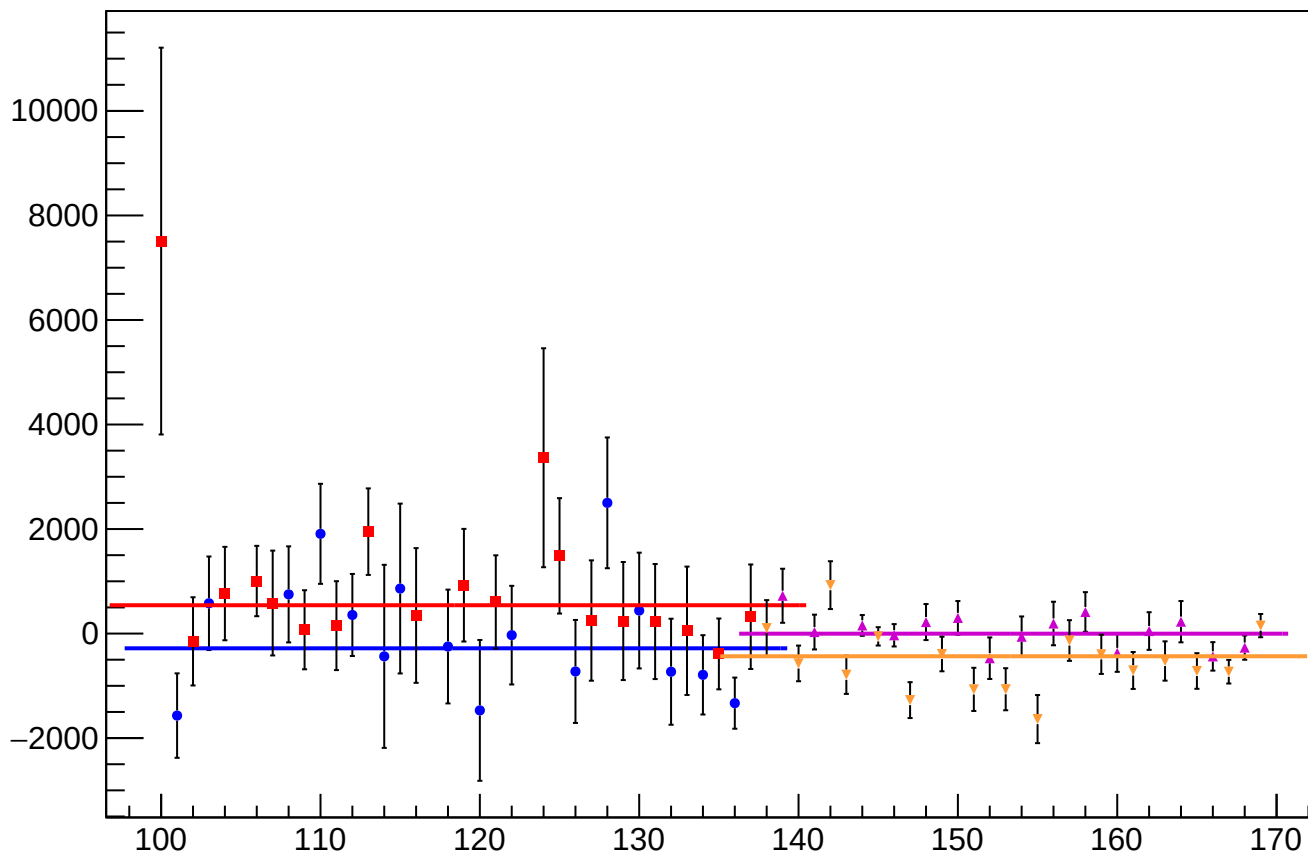
Right: 73.399 $\pm$ 0.014 χ^2 /NDF: 1995784.4/34

In: 59.686 $\pm$ 0.010 χ^2 /NDF: 1987804.9/30

Out: 59.387 $\pm$ 0.010 χ^2 /NDF: 2411047.8/35

All: 59.532 $\pm$ 0.007 χ^2 /NDF: 4399320.4/66

asym_sam_37_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -282.039 ± 227.789 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -434.333 ± 77.074 $\chi^2/\text{NDF}: 43.9/16$

Right Out: 542.028 ± 220.904 $\chi^2/\text{NDF}: 13.3/18$

Left In: -2.126 ± 79.696 $\chi^2/\text{NDF}: 12.0/14$

Left: -225.455 ± 55.403 $\chi^2/\text{NDF}: 71.1/31$

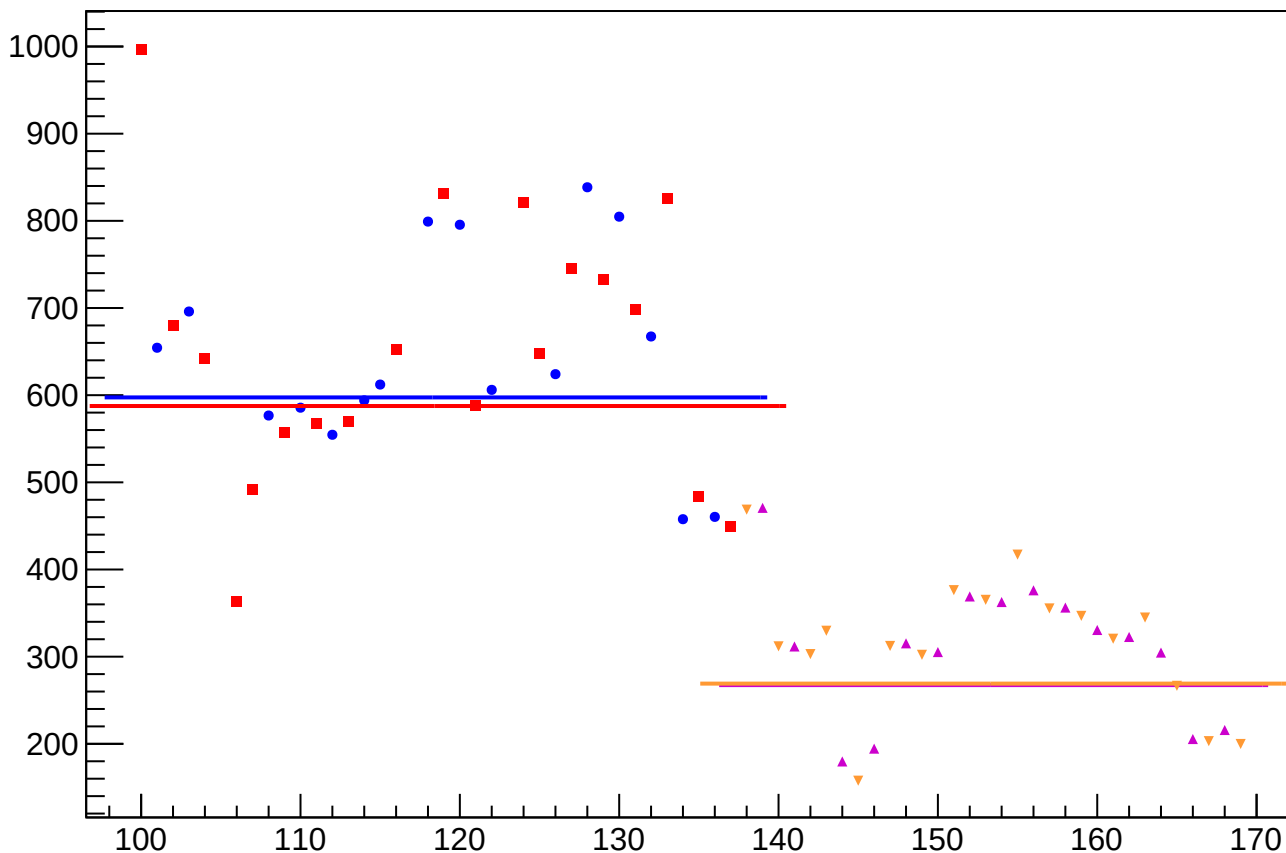
Right: 142.636 ± 158.581 $\chi^2/\text{NDF}: 42.8/34$

In: -32.652 ± 75.225 $\chi^2/\text{NDF}: 36.1/30$

Out: -328.376 ± 72.772 $\chi^2/\text{NDF}: 74.5/35$

All: -185.414 ± 52.303 $\chi^2/\text{NDF}: 118.7/66$

asym_sam_37_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 597.438+/-0.161 χ^2/NDF : 533791.9/15

Left Out: 269.089+/-0.054 χ^2/NDF : 2360092.2/16

Right Out: 587.565+/-0.156 χ^2/NDF : 689035.8/18

Left In: 267.374+/-0.056 χ^2/NDF : 1857463.1/14

Left: 268.260+/-0.039 χ^2/NDF : 4218034.1/31

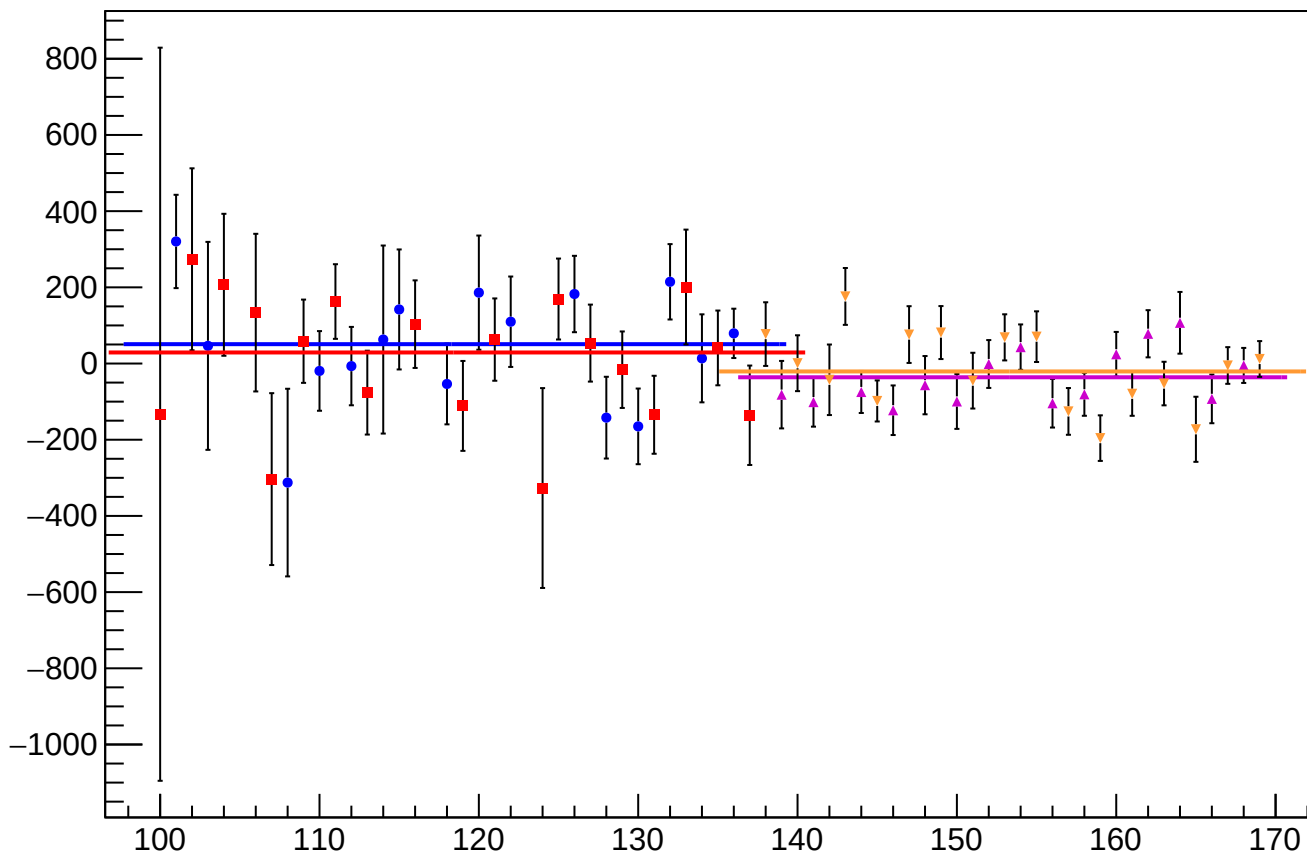
Right: 592.350+/-0.112 χ^2/NDF : 1224764.0/34

In: 303.370+/-0.053 χ^2/NDF : 6132455.1/30

Out: 303.651+/-0.051 χ^2/NDF : 6754966.6/35

All: 303.515+/-0.037 χ^2/NDF : 12887436.2/66

eigen_dit_asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 50.840 $\pm$ 28.316 χ^2 /NDF: 22.9/15

Left Out: -20.769 $\pm$ 15.405 χ^2 /NDF:35.1/16

Right Out: 29.038 $\pm$ 28.910 χ^2 /NDF: 18.5/18

Left In: -36.082 $\pm$ 16.195 χ^2 /NDF:17.0/14

Left: -28.043 $\pm$ 11.162 χ^2 /NDF: 52.7/31

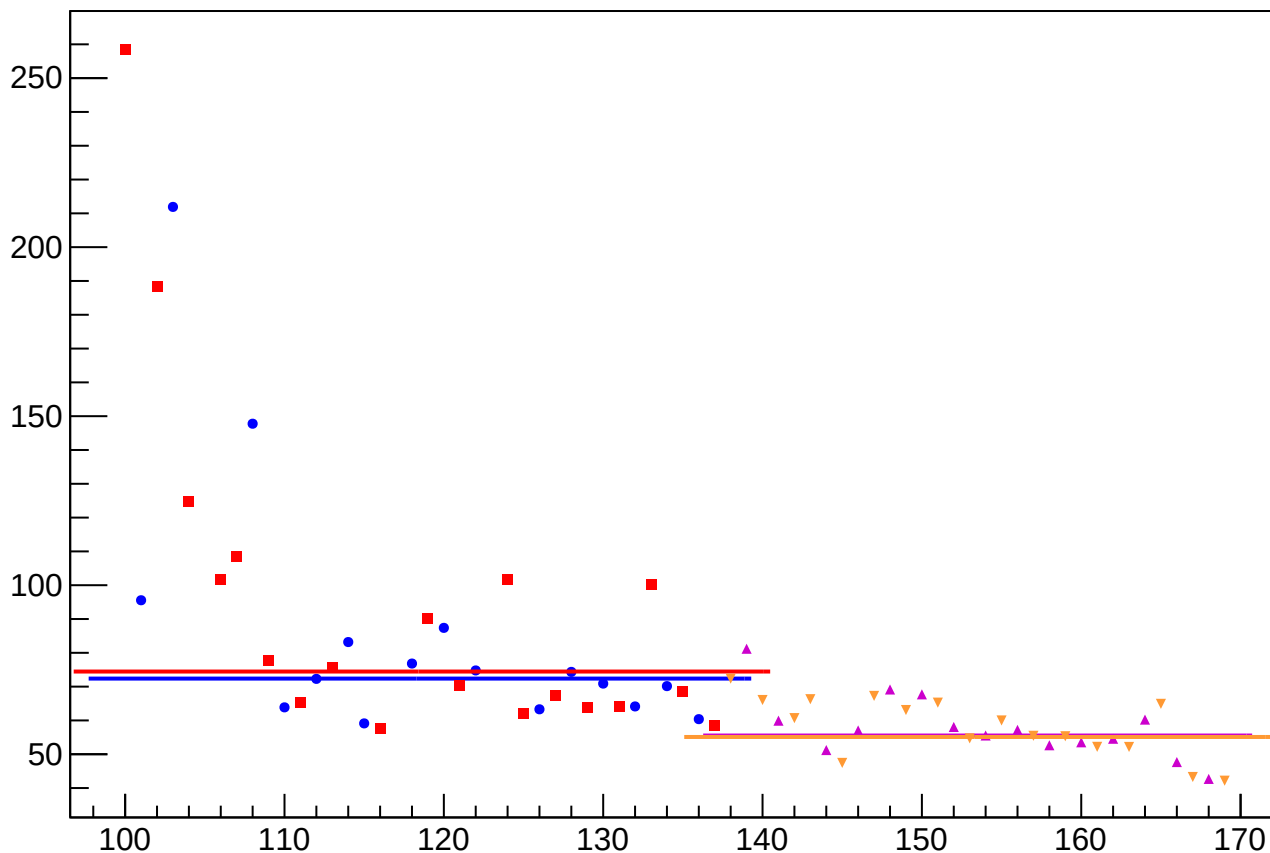
Right: 40.165 $\pm$ 20.229 χ^2 /NDF: 41.7/34

In: -14.657 $\pm$ 14.058 χ^2 /NDF:47.0/30

Out: -9.755 $\pm$ 13.595 χ^2 /NDF:56.0/35

All: -12.124 $\pm$ 9.773 χ^2 /NDF: 103.0/66

eigen_dit_asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 72.378+/-0.020 χ^2/NDF : 938180.0/15

Left Out: 55.106+/-0.011 χ^2/NDF : 660408.1/16

Right Out: 74.463+/-0.020 χ^2/NDF : 1052290.0/18

Left In: 55.535+/-0.011 χ^2/NDF : 516416.1/14

Left: 55.310+/-0.008 χ^2/NDF : 1177558.1/31

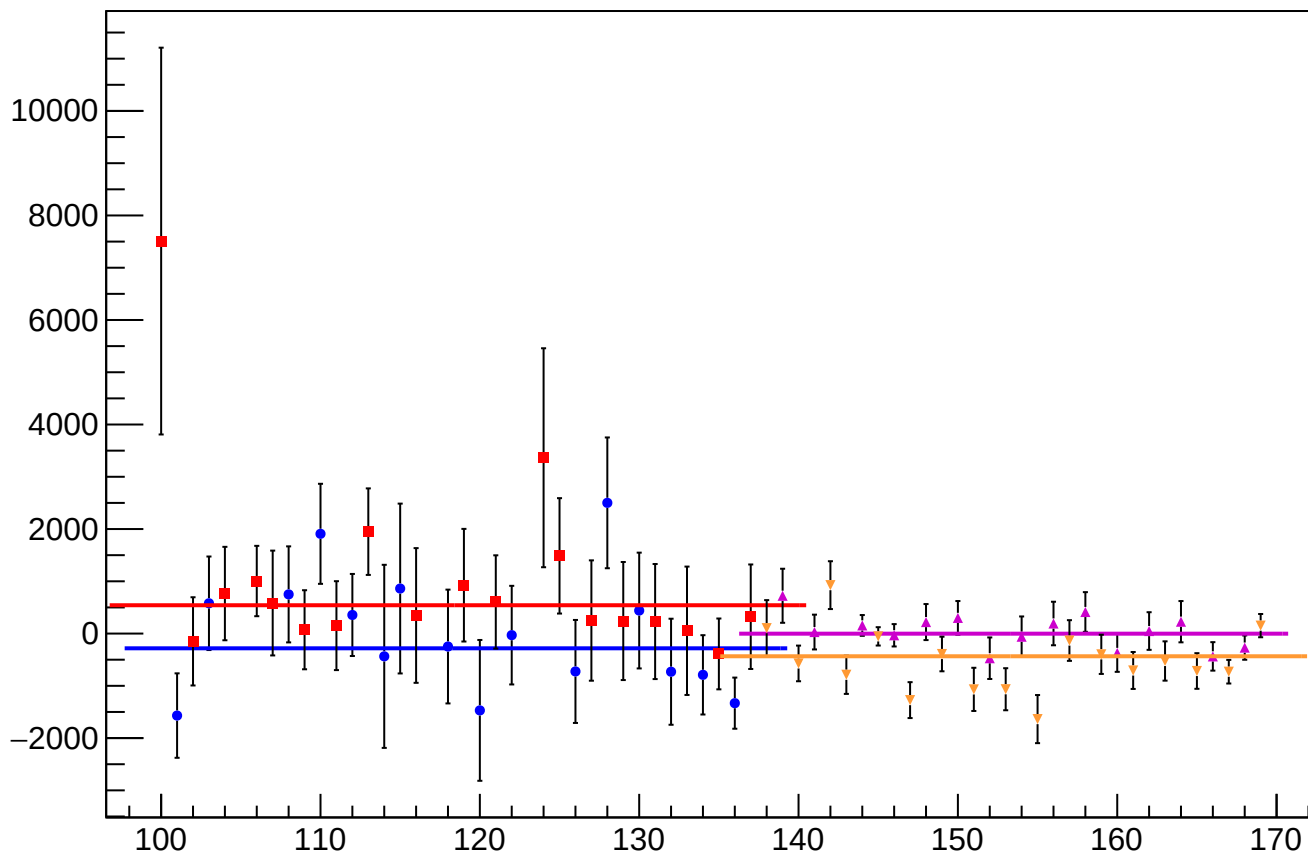
Right: 73.399+/-0.014 χ^2/NDF : 1995782.9/34

In: 59.686+/-0.010 χ^2/NDF : 1987800.6/30

Out: 59.387+/-0.010 χ^2/NDF : 2411049.9/35

All: 59.532+/-0.007 χ^2/NDF : 4399318.3/66

asym_sam_37_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -282.038 ± 227.789 $\chi^2/\text{NDF}: 22.8/15$

Left Out: -434.333 ± 77.074 $\chi^2/\text{NDF}: 43.9/16$

Right Out: 542.028 ± 220.904 $\chi^2/\text{NDF}: 13.3/18$

Left In: -2.126 ± 79.696 $\chi^2/\text{NDF}: 12.0/14$

Left: -225.455 ± 55.403 $\chi^2/\text{NDF}: 71.1/31$

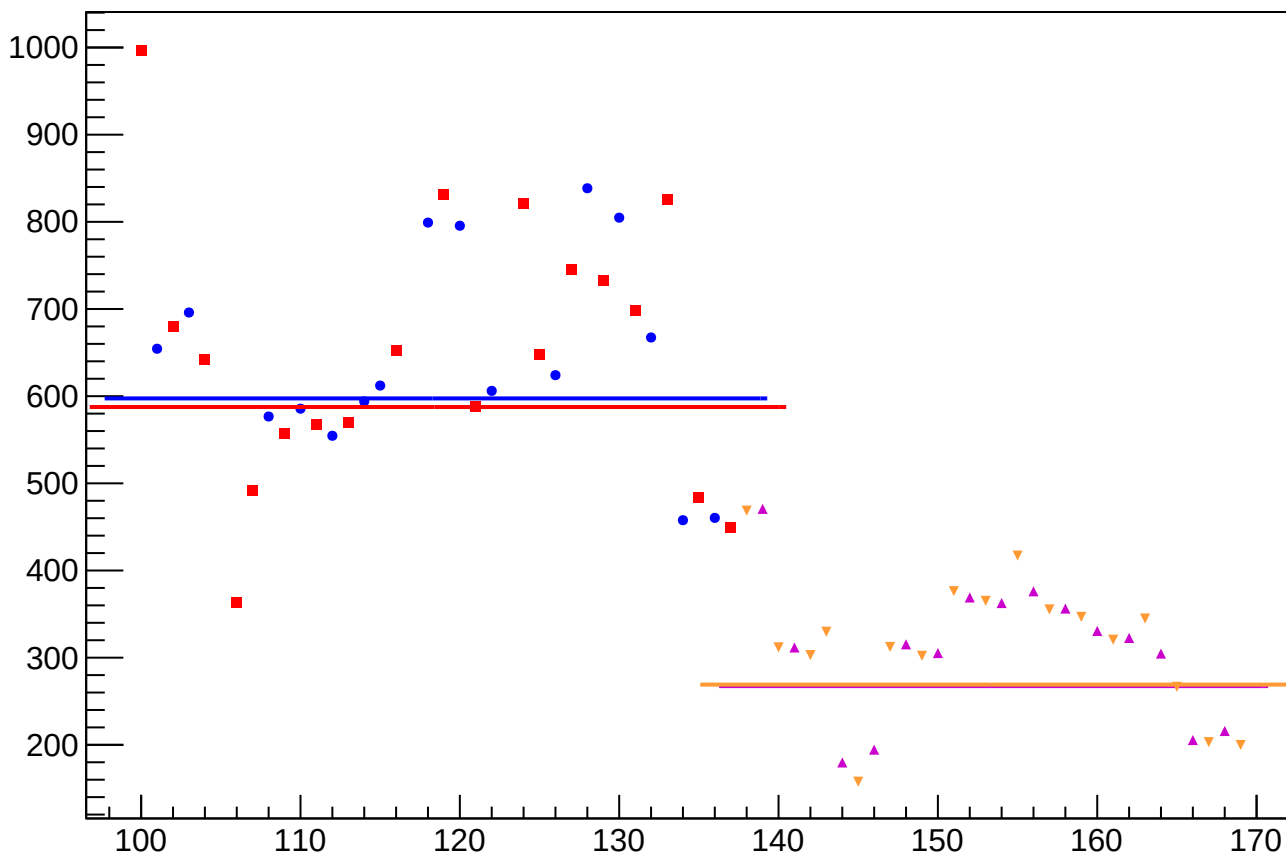
Right: 142.637 ± 158.581 $\chi^2/\text{NDF}: 42.8/34$

In: -32.653 ± 75.225 $\chi^2/\text{NDF}: 36.1/30$

Out: -328.376 ± 72.772 $\chi^2/\text{NDF}: 74.5/35$

All: -185.414 ± 52.303 $\chi^2/\text{NDF}: 118.7/66$

asym_sam_37_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 597.439+/-0.161 χ^2/NDF : 533790.1/15

Left Out: 269.089+/-0.054 χ^2/NDF : 2360079.3/16

Right Out: 587.565+/-0.156 χ^2/NDF : 689033.6/18

Left In: 267.373+/-0.056 χ^2/NDF : 1857456.7/14

Left: 268.260+/-0.039 χ^2/NDF : 4218014.8/31

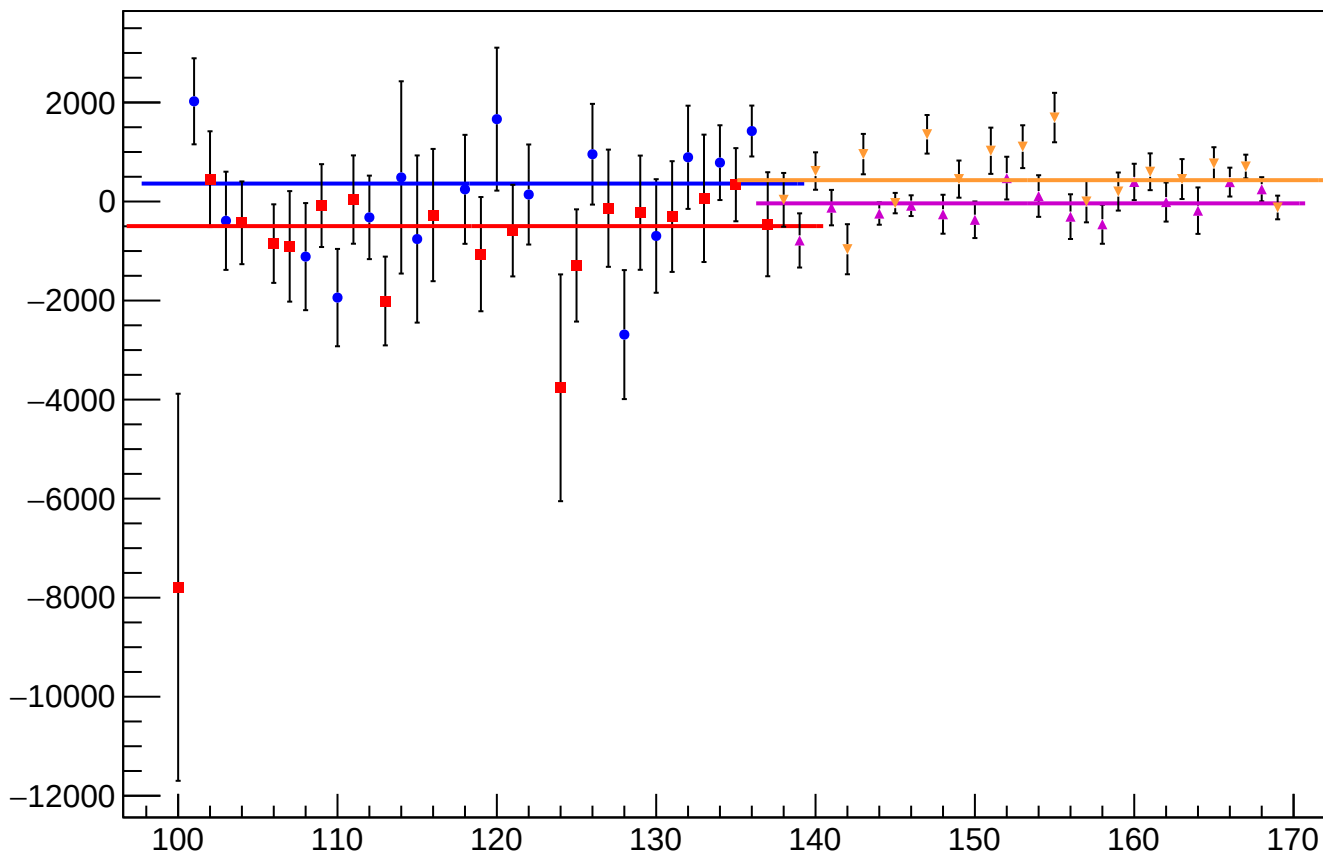
Right: 592.350+/-0.112 χ^2/NDF : 1224760.1/34

In: 303.369+/-0.053 χ^2/NDF : 6132457.6/30

Out: 303.651+/-0.051 χ^2/NDF : 6754951.4/35

All: 303.515+/-0.037 χ^2/NDF : 12887423.5/66

asym_sam_37_dd_mean vs Slug, Sign Corrected



Right In: 362.384 $\pm$ 240.303 χ^2 /NDF: 25.1/15

Left Out: 431.098 $\pm$ 84.069 χ^2 /NDF:40.5/16

Right Out: -496.639 $\pm$ 236.029 χ^2 /NDF: 12.7/18

Left In: -37.182 $\pm$ 85.516 χ^2 /NDF:12.0/14

Left: 200.955 $\pm$ 59.951 χ^2 /NDF: 67.8/31

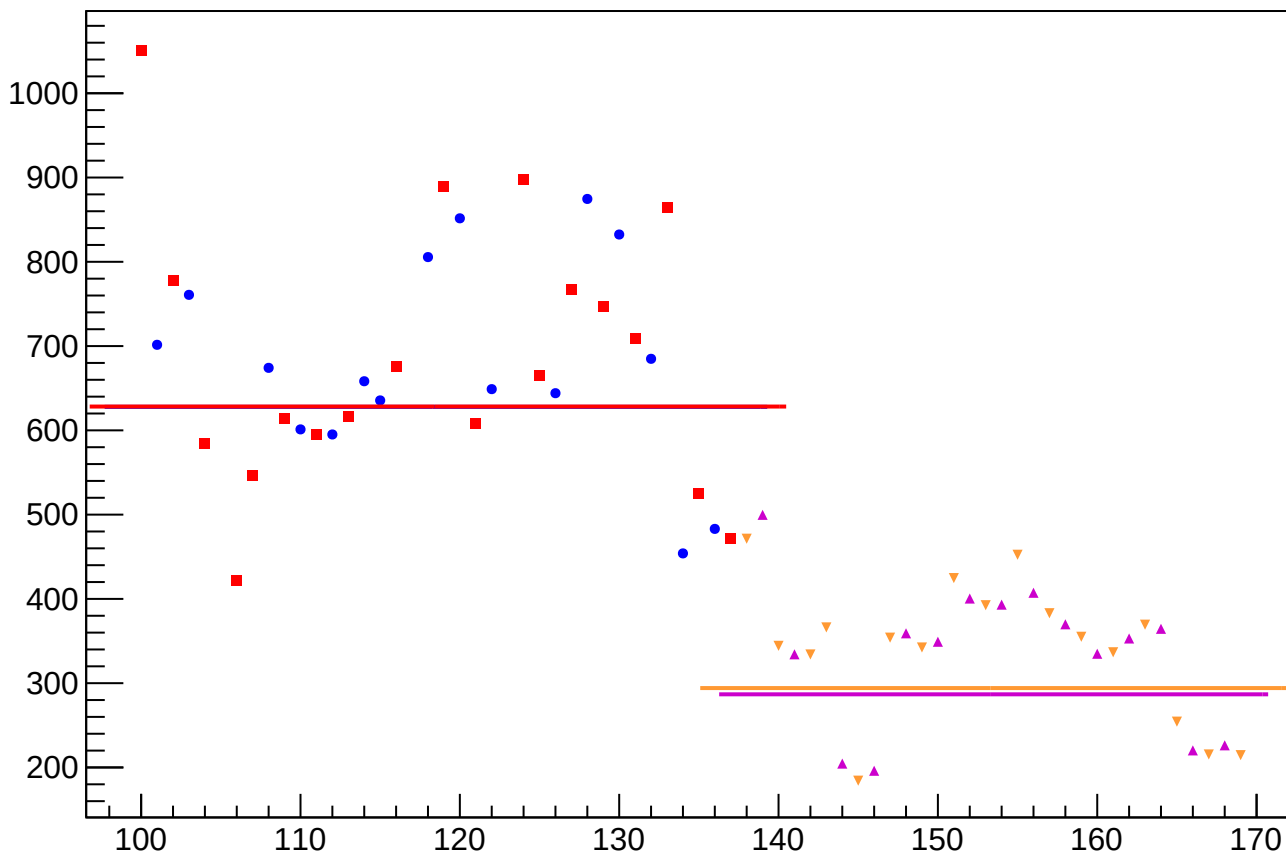
Right: -74.835 $\pm$ 168.388 χ^2 /NDF: 44.3/34

In: 7.732 $\pm$ 80.567 χ^2 /NDF:39.5/30

Out: 326.653 $\pm$ 79.195 χ^2 /NDF:66.9/35

All: 169.930 $\pm$ 56.478 χ^2 /NDF: 114.4/66

asym_sam_37_dd_rms vs Slug, Sign Corrected



Right In: 627.896+/-0.170 χ^2/NDF : 566795.7/15

Left Out: 294.194+/-0.059 χ^2/NDF : 2135071.0/16

Right Out: 628.250+/-0.167 χ^2/NDF : 570979.3/18

Left In: 286.779+/-0.060 χ^2/NDF : 1974867.7/14

Left: 290.550+/-0.042 χ^2/NDF : 4117584.5/31

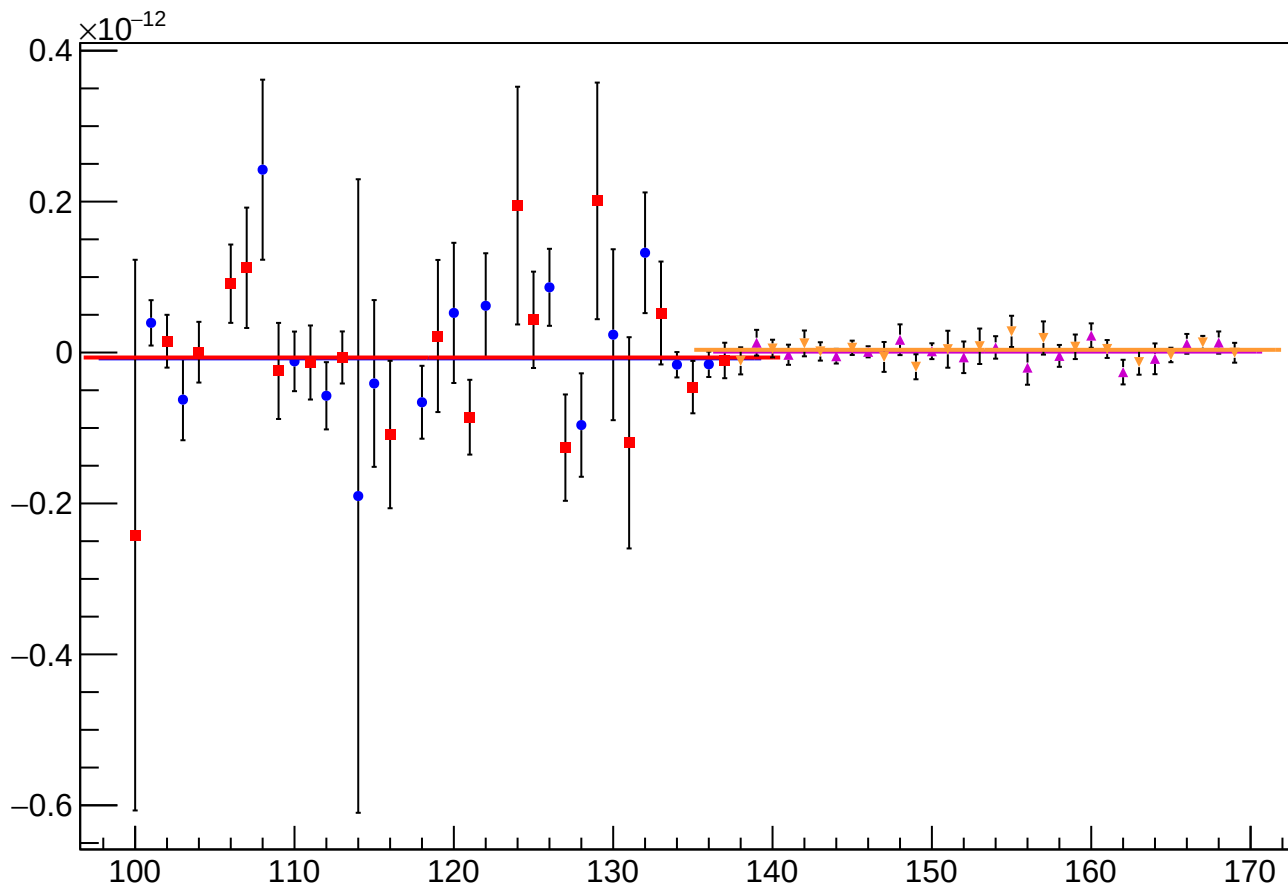
Right: 628.076+/-0.119 χ^2/NDF : 1137777.3/34

In: 325.123+/-0.057 χ^2/NDF : 6118770.7/30

Out: 331.802+/-0.056 χ^2/NDF : 6261283.3/35

All: 328.520+/-0.040 χ^2/NDF : 12387044.9/66

asym_sam_37_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 21.0/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 7.9/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 20.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 8.8/14

Left: 0.000 ± 0.000 χ^2/NDF : 17.0/31

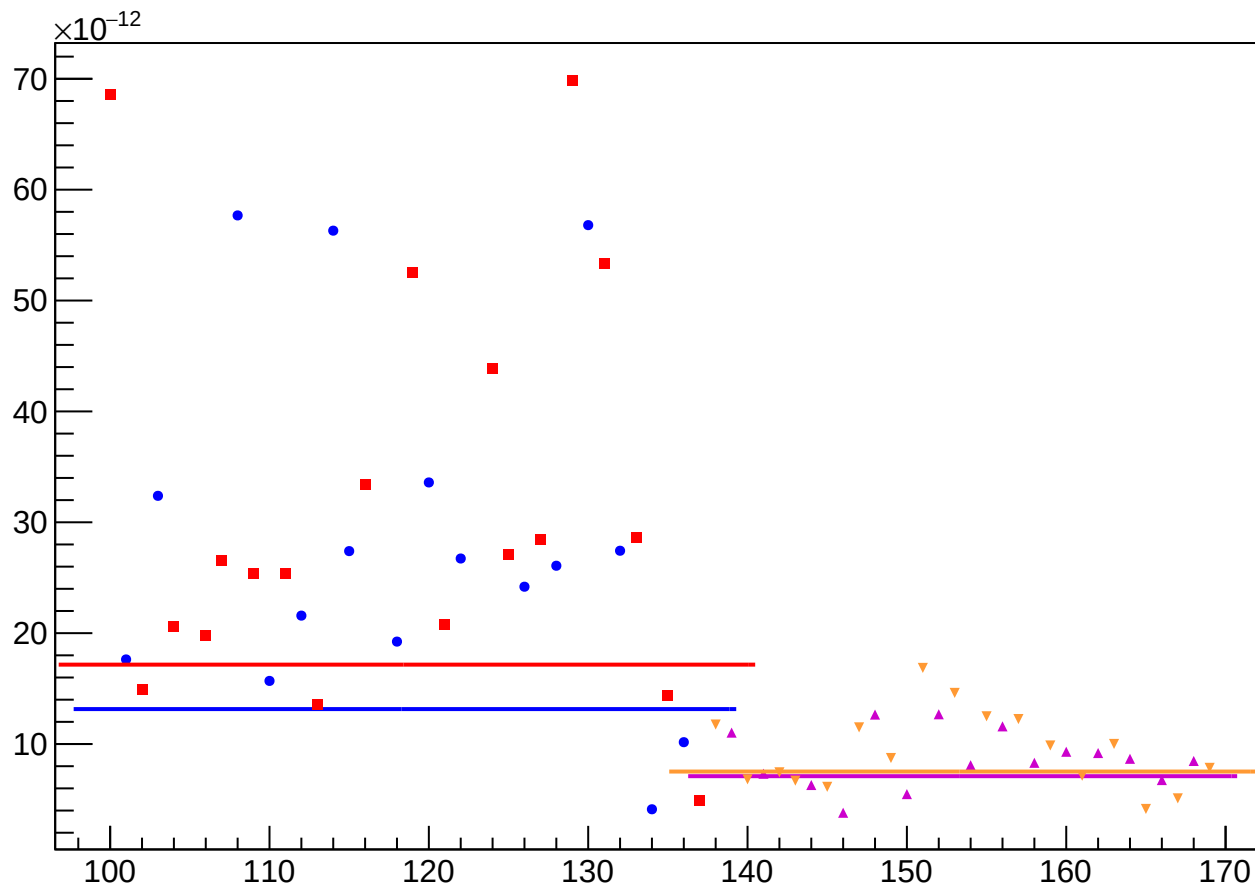
Right: -0.000 ± 0.000 χ^2/NDF : 41.0/34

In: 0.000 ± 0.000 χ^2/NDF : 30.6/30

Out: 0.000 ± 0.000 χ^2/NDF : 28.6/35

All: 0.000 ± 0.000 χ^2/NDF : 59.6/66

asym_sam_37_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2082875.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :1435346.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1646197.6/18

Left In: 0.000+/-0.000 χ^2/NDF :1061956.3/14

Left: 0.000+/-0.000 χ^2/NDF : 2512467.5/31

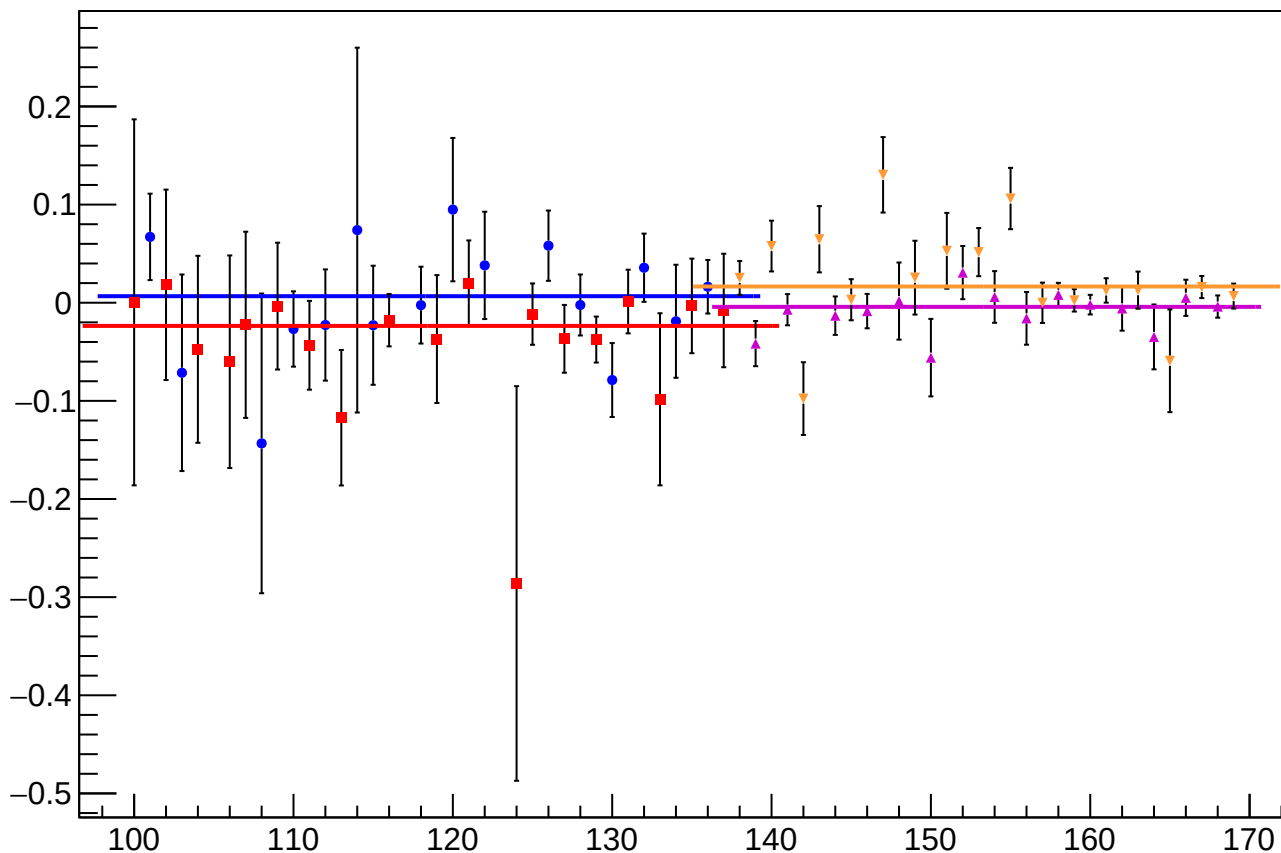
Right: 0.000+/-0.000 χ^2/NDF : 3874616.1/34

In: 0.000+/-0.000 χ^2/NDF :3879250.2/30

Out: 0.000+/-0.000 χ^2/NDF :4371419.5/35

All: 0.000+/-0.000 χ^2/NDF : 8268833.5/66

asym_sam_37_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.007 ± 0.011 $\chi^2/\text{NDF}: 15.0/15$

Left Out: 0.017 ± 0.005 $\chi^2/\text{NDF}: 39.7/16$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.004 ± 0.005 $\chi^2/\text{NDF}: 8.9/14$

Left: 0.006 ± 0.003 $\chi^2/\text{NDF}: 58.8/31$

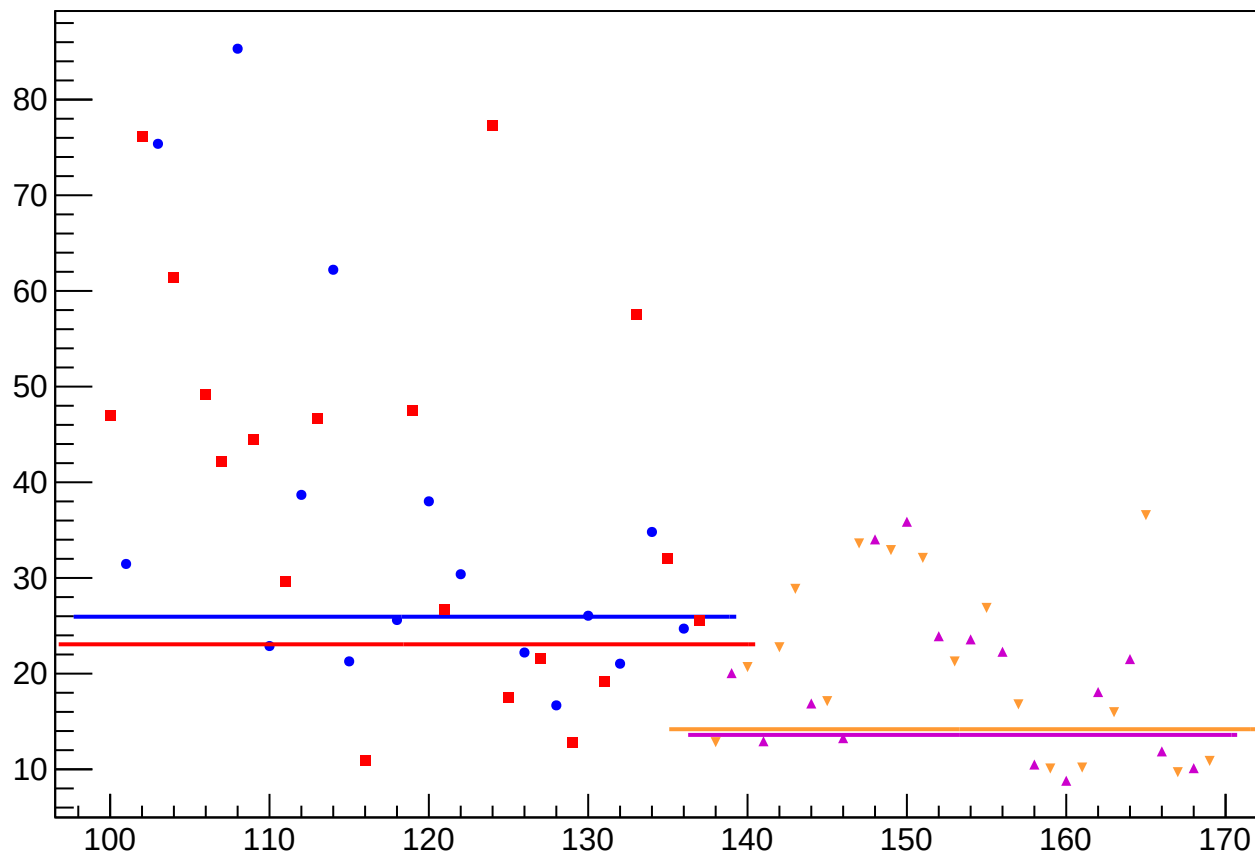
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.003 ± 0.004 $\chi^2/\text{NDF}: 24.7/30$

Out: 0.010 ± 0.004 $\chi^2/\text{NDF}: 59.5/35$

All: 0.004 ± 0.003 $\chi^2/\text{NDF}: 88.7/66$

asym_sam_37_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.949 $\pm$ 0.008 χ^2 /NDF: 1381638.3/15

Left Out: 14.191 $\pm$ 0.003 χ^2 /NDF: 3928495.7/16

Right Out: 23.065 $\pm$ 0.007 χ^2 /NDF: 3360857.8/18

Left In: 13.596 $\pm$ 0.003 χ^2 /NDF: 3171226.9/14

Left: 13.893 $\pm$ 0.002 χ^2 /NDF: 7116470.9/31

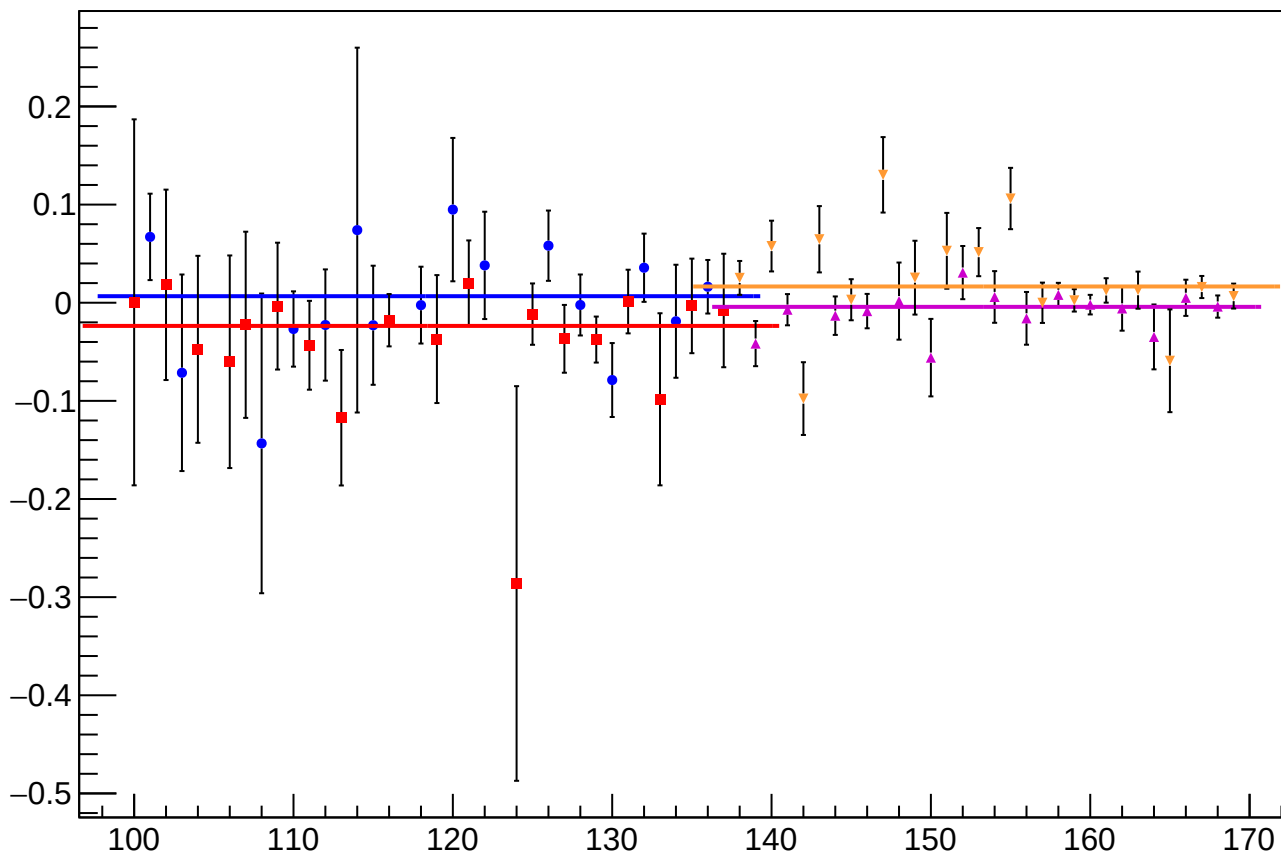
Right: 24.427 $\pm$ 0.005 χ^2 /NDF: 4813744.3/34

In: 15.398 $\pm$ 0.003 χ^2 /NDF: 6668652.2/30

Out: 15.620 $\pm$ 0.003 χ^2 /NDF: 8487440.4/35

All: 15.510 $\pm$ 0.002 χ^2 /NDF: 15158855.7/66

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.007 ± 0.011 $\chi^2/\text{NDF}: 15.0/15$

Left Out: 0.017 ± 0.005 $\chi^2/\text{NDF}: 39.7/16$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.004 ± 0.005 $\chi^2/\text{NDF}: 8.9/14$

Left: 0.006 ± 0.003 $\chi^2/\text{NDF}: 58.8/31$

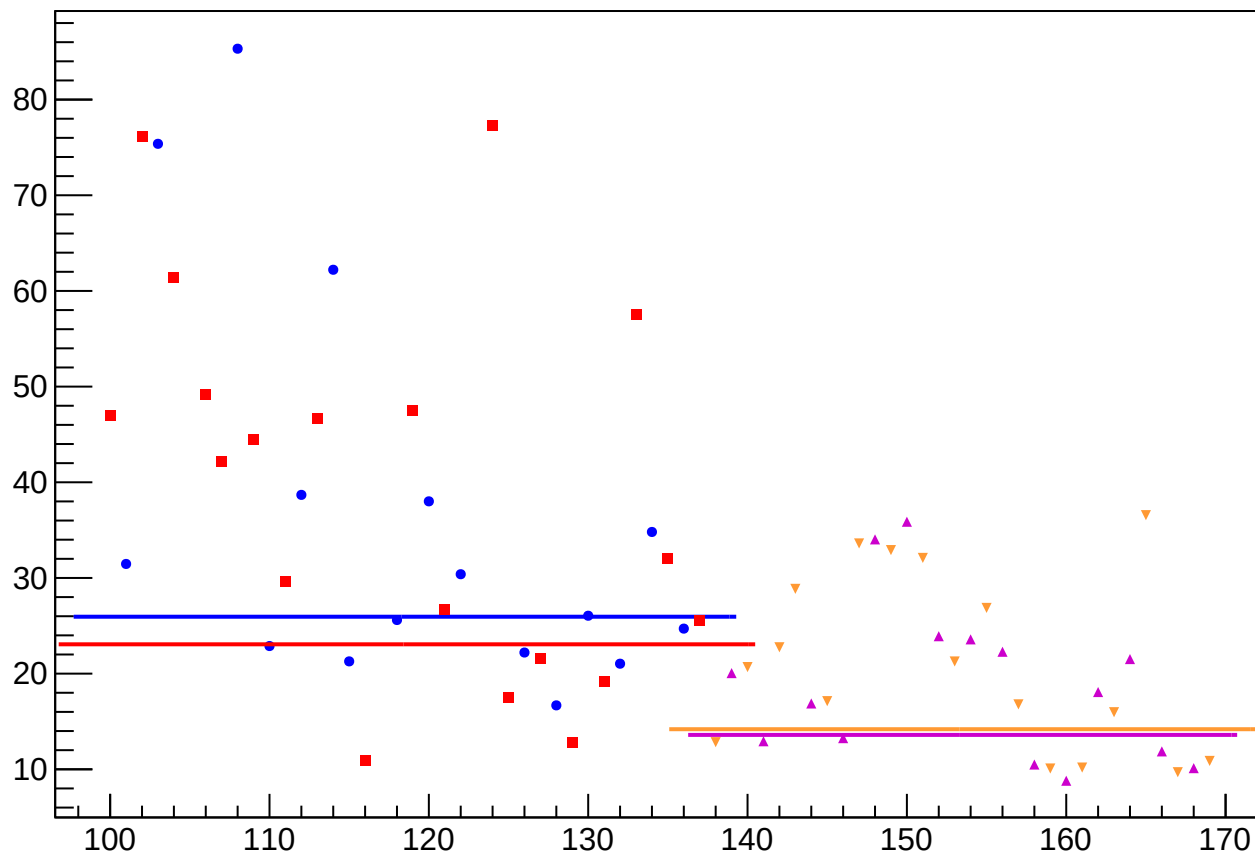
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.003 ± 0.004 $\chi^2/\text{NDF}: 24.7/30$

Out: 0.010 ± 0.004 $\chi^2/\text{NDF}: 59.5/35$

All: 0.004 ± 0.003 $\chi^2/\text{NDF}: 88.7/66$

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.949+/-0.008 χ^2/NDF : 1381638.3/15

Left Out: 14.191+/-0.003 χ^2/NDF : 3928495.7/16

Right Out: 23.065+/-0.007 χ^2/NDF : 3360857.8/18

Left In: 13.596+/-0.003 χ^2/NDF : 3171226.9/14

Left: 13.893+/-0.002 χ^2/NDF : 7116470.9/31

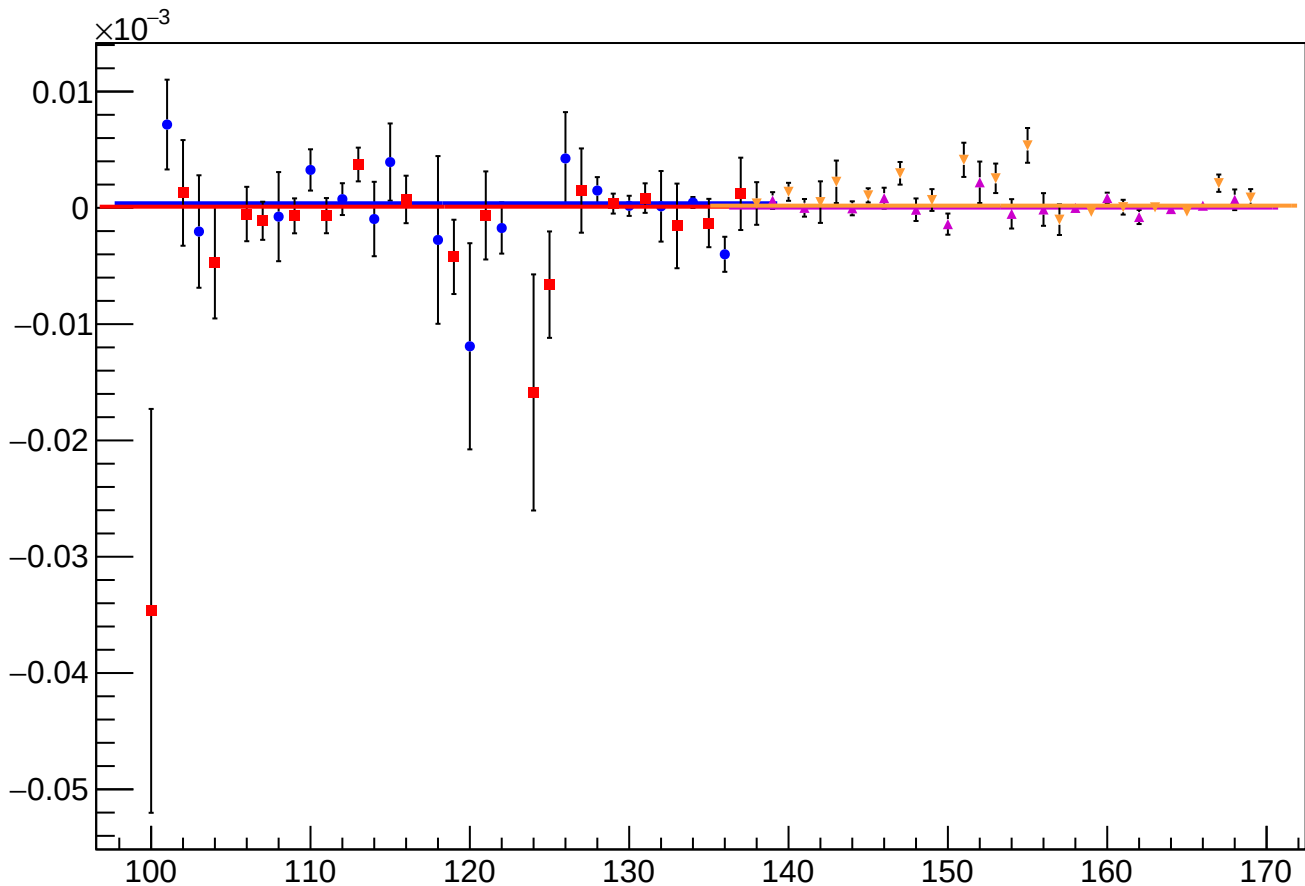
Right: 24.427+/-0.005 χ^2/NDF : 4813744.3/34

In: 15.398+/-0.003 χ^2/NDF : 6668652.2/30

Out: 15.620+/-0.003 χ^2/NDF : 8487440.4/35

All: 15.510+/-0.002 χ^2/NDF : 15158855.7/66

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 52.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 20.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 11.8/14

Left: 0.000+/-0.000 χ^2/NDF : 65.7/31

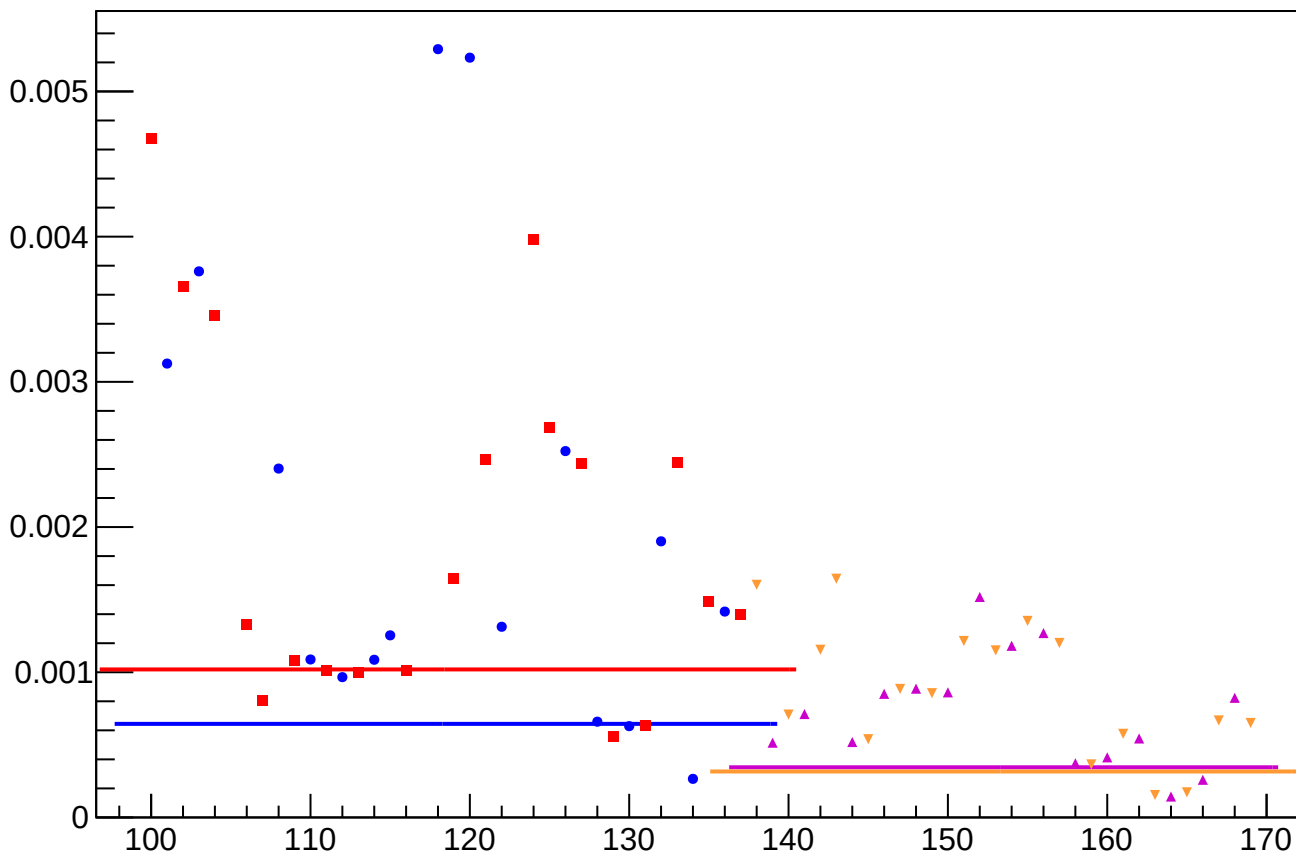
Right: 0.000+/-0.000 χ^2/NDF : 41.6/34

In: 0.000+/-0.000 χ^2/NDF : 33.7/30

Out: 0.000+/-0.000 χ^2/NDF : 73.4/35

All: 0.000+/-0.000 χ^2/NDF : 107.6/66

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 6575652.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :11675856.2/16

Right Out: 0.001+/-0.000 χ^2/NDF : 3662501.2/18

Left In: 0.000+/-0.000 χ^2/NDF :8516993.2/14

Left: 0.000+/-0.000 χ^2/NDF : 20247706.9/31

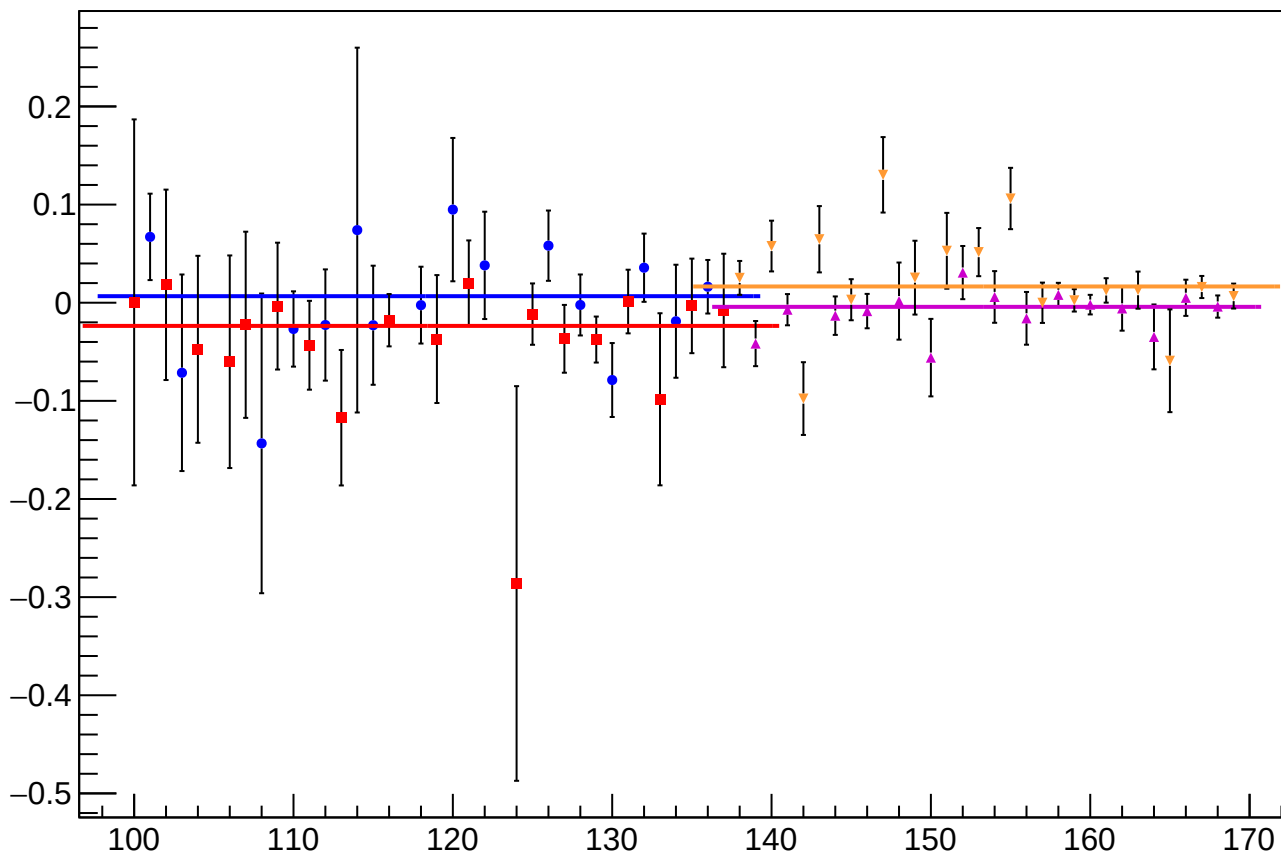
Right: 0.001+/-0.000 χ^2/NDF : 11121544.1/34

In: 0.000+/-0.000 χ^2/NDF :16445864.4/30

Out: 0.000+/-0.000 χ^2/NDF :19901223.2/35

All: 0.000+/-0.000 χ^2/NDF : 36379029.5/66

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.007 ± 0.011 $\chi^2/\text{NDF}: 15.0/15$

Left Out: 0.017 ± 0.005 $\chi^2/\text{NDF}: 39.7/16$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.004 ± 0.005 $\chi^2/\text{NDF}: 8.9/14$

Left: 0.006 ± 0.003 $\chi^2/\text{NDF}: 58.8/31$

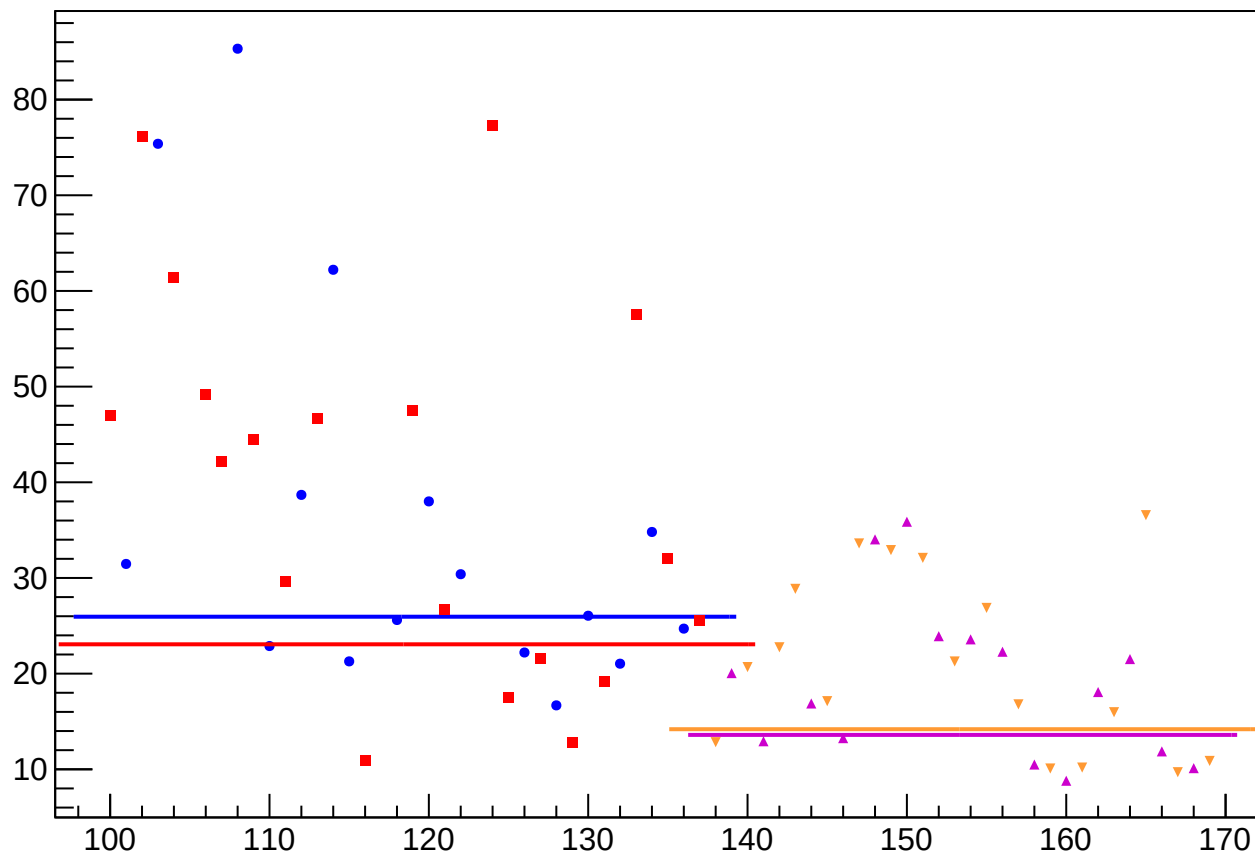
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.003 ± 0.004 $\chi^2/\text{NDF}: 24.7/30$

Out: 0.010 ± 0.004 $\chi^2/\text{NDF}: 59.5/35$

All: 0.004 ± 0.003 $\chi^2/\text{NDF}: 88.7/66$

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.950+/-0.008 χ^2/NDF : 1381591.4/15

Left Out: 14.191+/-0.003 χ^2/NDF : 3928709.8/16

Right Out: 23.066+/-0.007 χ^2/NDF : 3360688.5/18

Left In: 13.596+/-0.003 χ^2/NDF : 3171378.5/14

Left: 13.893+/-0.002 χ^2/NDF : 7116839.0/31

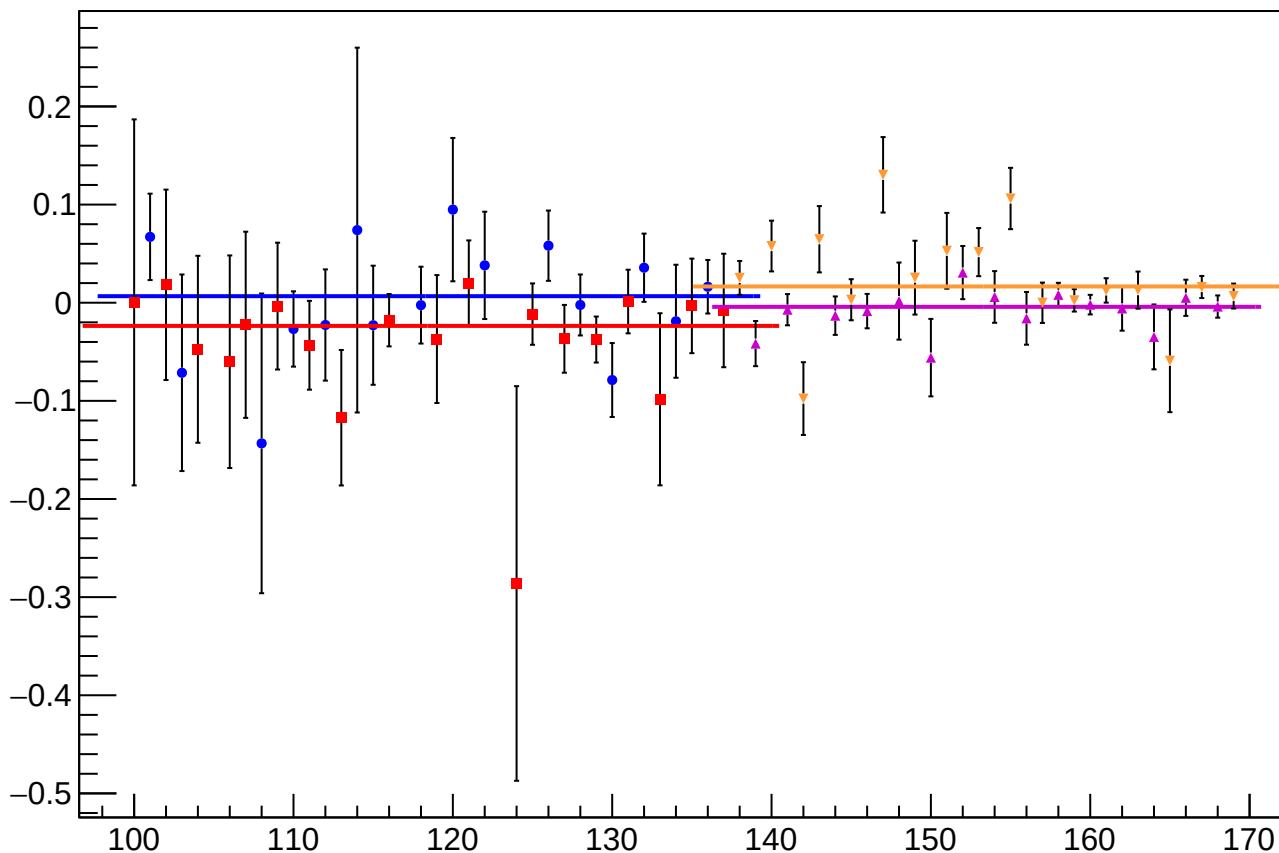
Right: 24.428+/-0.005 χ^2/NDF : 4813518.6/34

In: 15.398+/-0.003 χ^2/NDF : 6668812.7/30

Out: 15.621+/-0.003 χ^2/NDF : 8487555.1/35

All: 15.510+/-0.002 χ^2/NDF : 15159132.3/66

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.007 ± 0.011 $\chi^2/\text{NDF}: 15.0/15$

Left Out: 0.017 ± 0.005 $\chi^2/\text{NDF}: 39.7/16$

Right Out: -0.024 ± 0.011 $\chi^2/\text{NDF}: 7.5/18$

Left In: -0.004 ± 0.005 $\chi^2/\text{NDF}: 8.9/14$

Left: 0.006 ± 0.003 $\chi^2/\text{NDF}: 58.8/31$

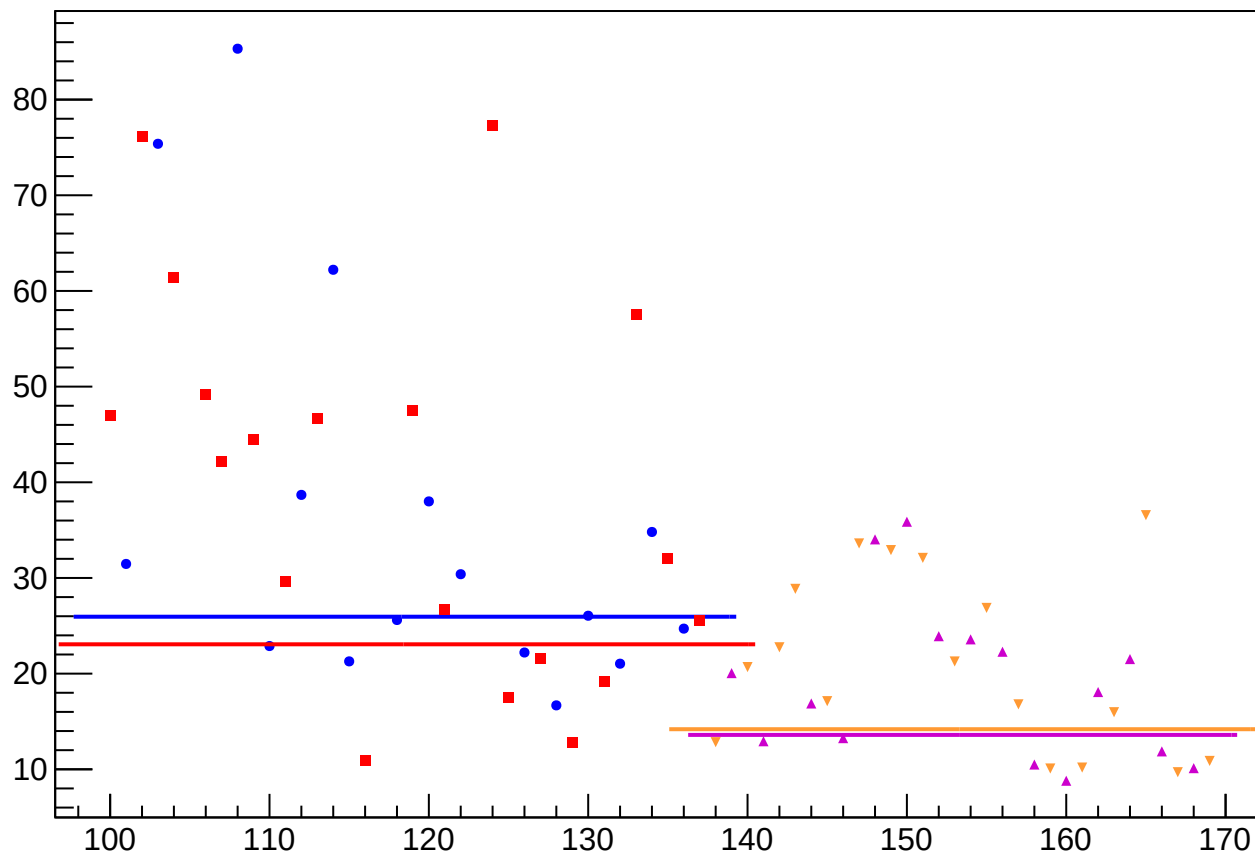
Right: -0.009 ± 0.008 $\chi^2/\text{NDF}: 26.4/34$

In: -0.003 ± 0.004 $\chi^2/\text{NDF}: 24.7/30$

Out: 0.010 ± 0.004 $\chi^2/\text{NDF}: 59.5/35$

All: 0.004 ± 0.003 $\chi^2/\text{NDF}: 88.7/66$

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.950+/-0.008 χ^2/NDF : 1381591.4/15

Left Out: 14.191+/-0.003 χ^2/NDF : 3928709.8/16

Right Out: 23.066+/-0.007 χ^2/NDF : 3360688.5/18

Left In: 13.596+/-0.003 χ^2/NDF : 3171378.5/14

Left: 13.893+/-0.002 χ^2/NDF : 7116839.0/31

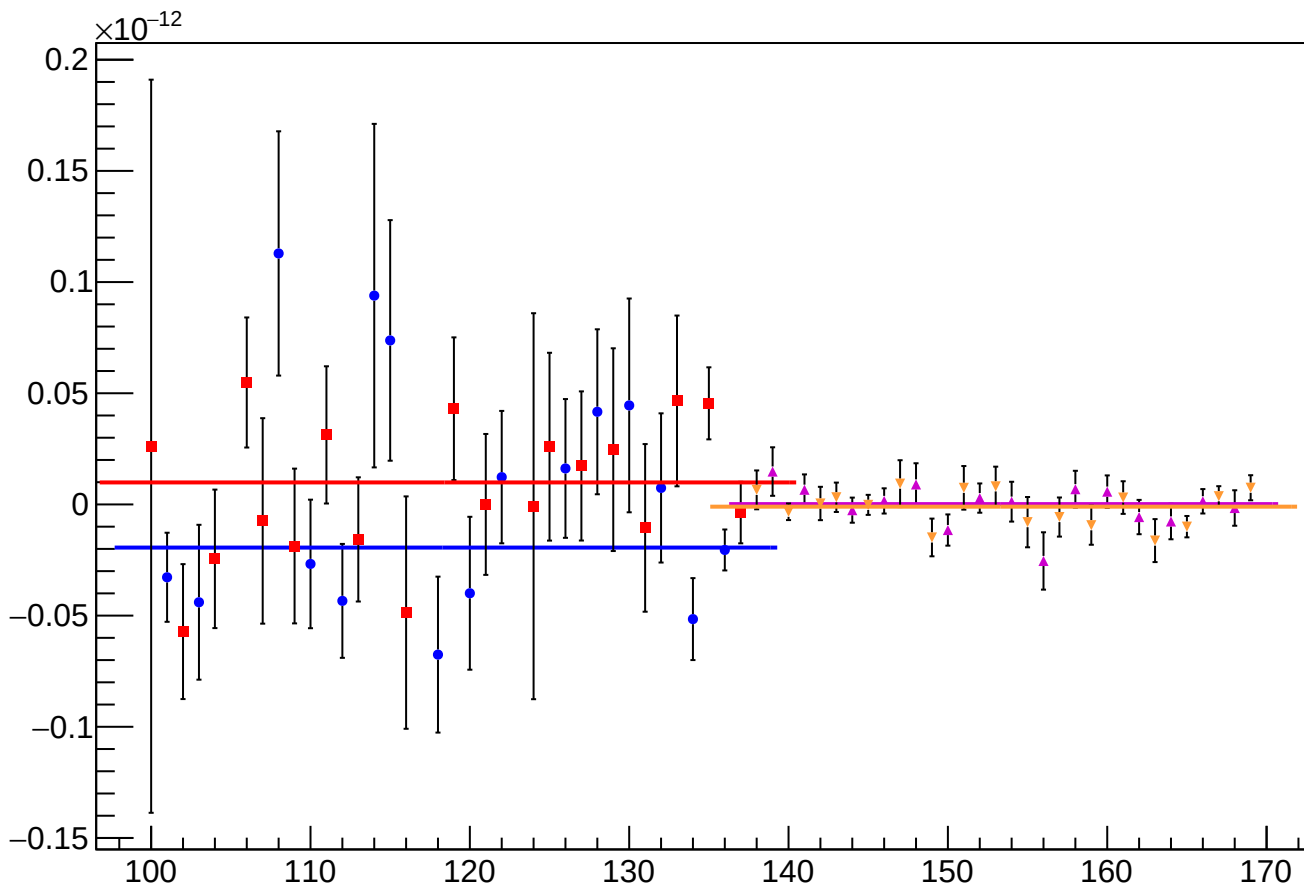
Right: 24.428+/-0.005 χ^2/NDF : 4813518.6/34

In: 15.398+/-0.003 χ^2/NDF : 6668812.7/30

Out: 15.621+/-0.003 χ^2/NDF : 8487555.1/35

All: 15.510+/-0.002 χ^2/NDF : 15159132.3/66

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 25.7/15

Left Out: -0.000+/-0.000 χ^2/NDF : 18.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 20.3/18

Left In: 0.000+/-0.000 χ^2/NDF : 13.6/14

Left: -0.000+/-0.000 χ^2/NDF : 32.1/31

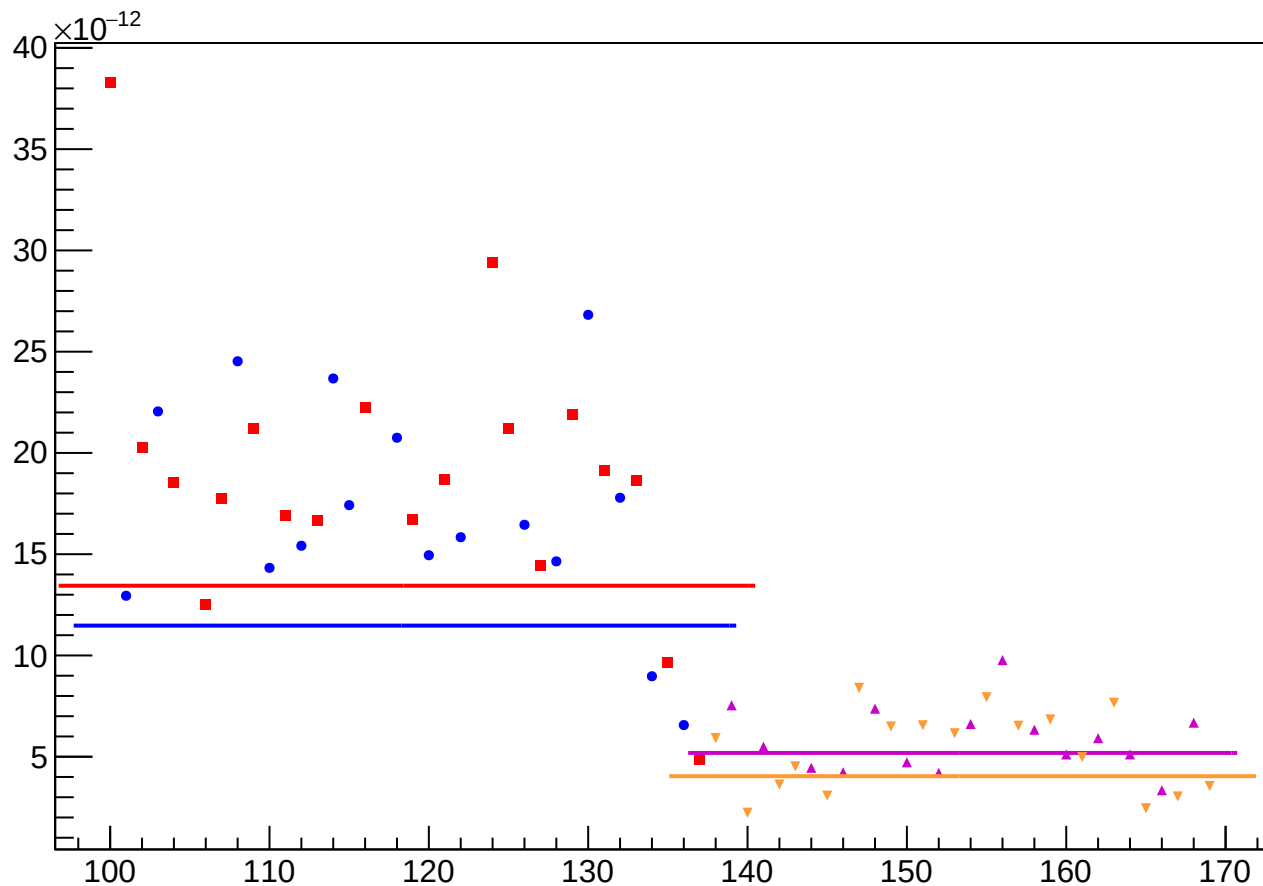
Right: -0.000+/-0.000 χ^2/NDF : 56.4/34

In: -0.000+/-0.000 χ^2/NDF : 48.8/30

Out: -0.000+/-0.000 χ^2/NDF : 41.1/35

All: -0.000+/-0.000 χ^2/NDF : 90.1/66

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1598593.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2669853.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1672848.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 1001706.5/14

Left: 0.000+/-0.000 χ^2/NDF : 4107826.6/31

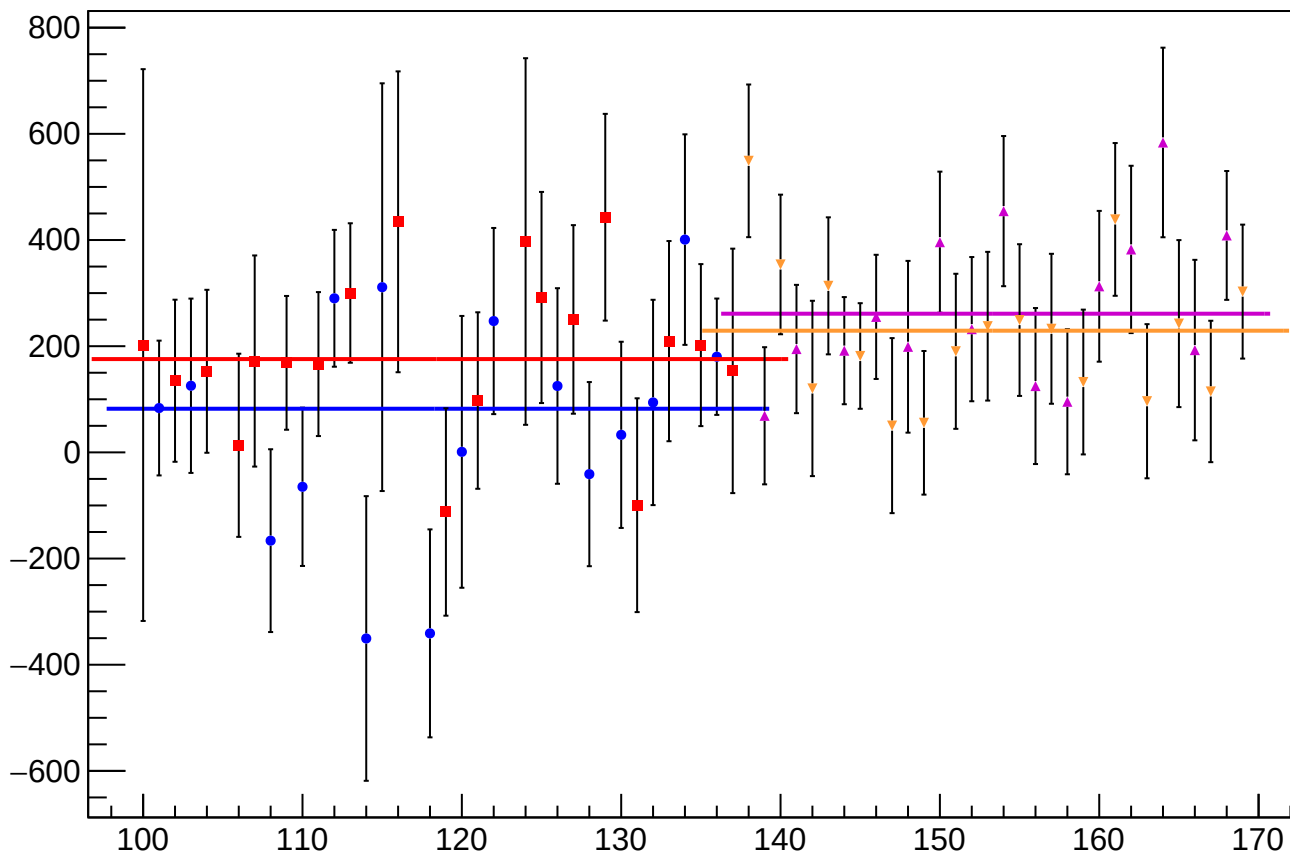
Right: 0.000+/-0.000 χ^2/NDF : 3365640.7/34

In: 0.000+/-0.000 χ^2/NDF : 4578212.4/30

Out: 0.000+/-0.000 χ^2/NDF : 7996611.5/35

All: 0.000+/-0.000 χ^2/NDF : 13119591.4/66

reg_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 82.196+/-42.133 χ^2/NDF : 18.4/15

Left Out: 229.201+/-33.304 χ^2/NDF :14.4/16

Right Out: 175.732+/-40.673 χ^2/NDF : 9.9/18

Left In: 261.198+/-34.871 χ^2/NDF :14.0/14

Left: 244.465+/-24.085 χ^2/NDF : 28.9/31

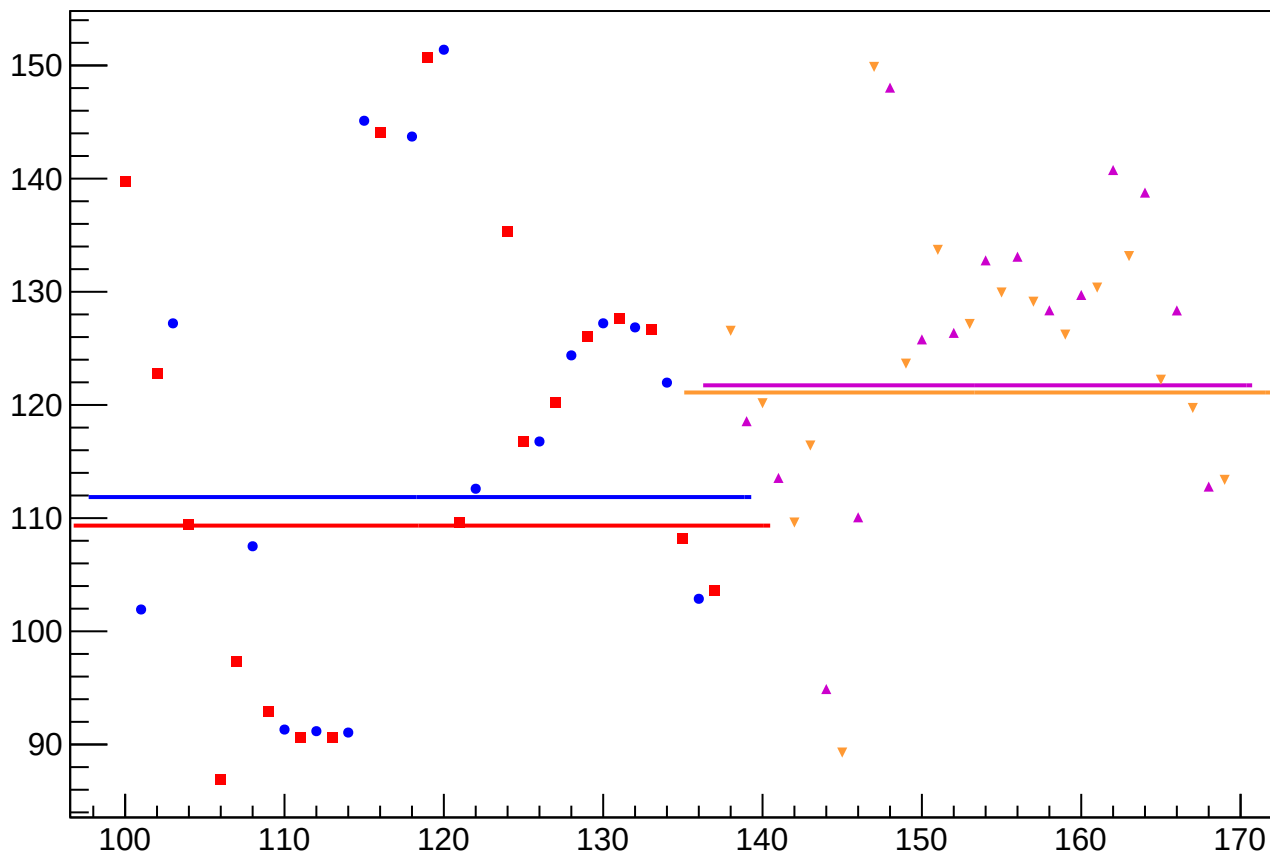
Right: 130.613+/-29.263 χ^2/NDF : 30.8/34

In: 188.430+/-26.864 χ^2/NDF :43.1/30

Out: 207.740+/-25.768 χ^2/NDF :25.3/35

All: 198.487+/-18.596 χ^2/NDF : 68.7/66

reg_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 111.862 ± 0.030 χ^2/NDF : 306023.8/15

Left Out: 121.102 ± 0.024 χ^2/NDF : 346989.8/16

Right Out: 109.340 ± 0.029 χ^2/NDF : 367219.9/18

Left In: 121.736 ± 0.025 χ^2/NDF : 325187.5/14

Left: 121.405 ± 0.017 χ^2/NDF : 672522.5/31

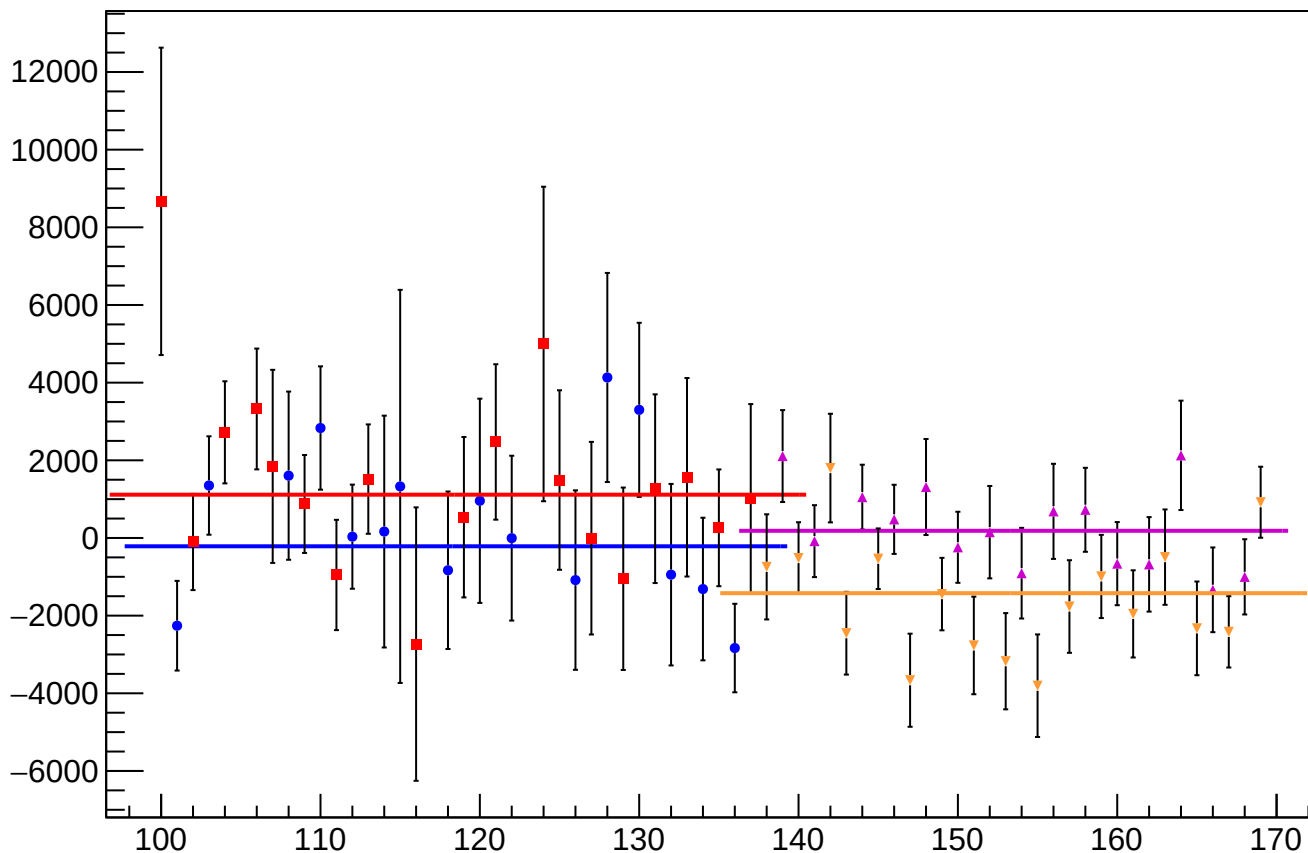
Right: 110.557 ± 0.021 χ^2/NDF : 676952.3/34

In: 117.722 ± 0.019 χ^2/NDF : 696399.5/30

Out: 116.381 ± 0.018 χ^2/NDF : 814336.8/35

All: 117.024 ± 0.013 χ^2/NDF : 1513330.4/66

asym_sam_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -214.187 $\pm$ 443.962 χ^2 /NDF: 20.4/15

Left Out: -1421.306 $\pm$ 262.130 χ^2 /NDF:28.0/16

Right Out: 1114.700 $\pm$ 423.039 χ^2 /NDF: 14.5/18

Left In: 184.654 $\pm$ 273.739 χ^2 /NDF:12.7/14

Left: -653.100 $\pm$ 189.325 χ^2 /NDF: 58.7/31

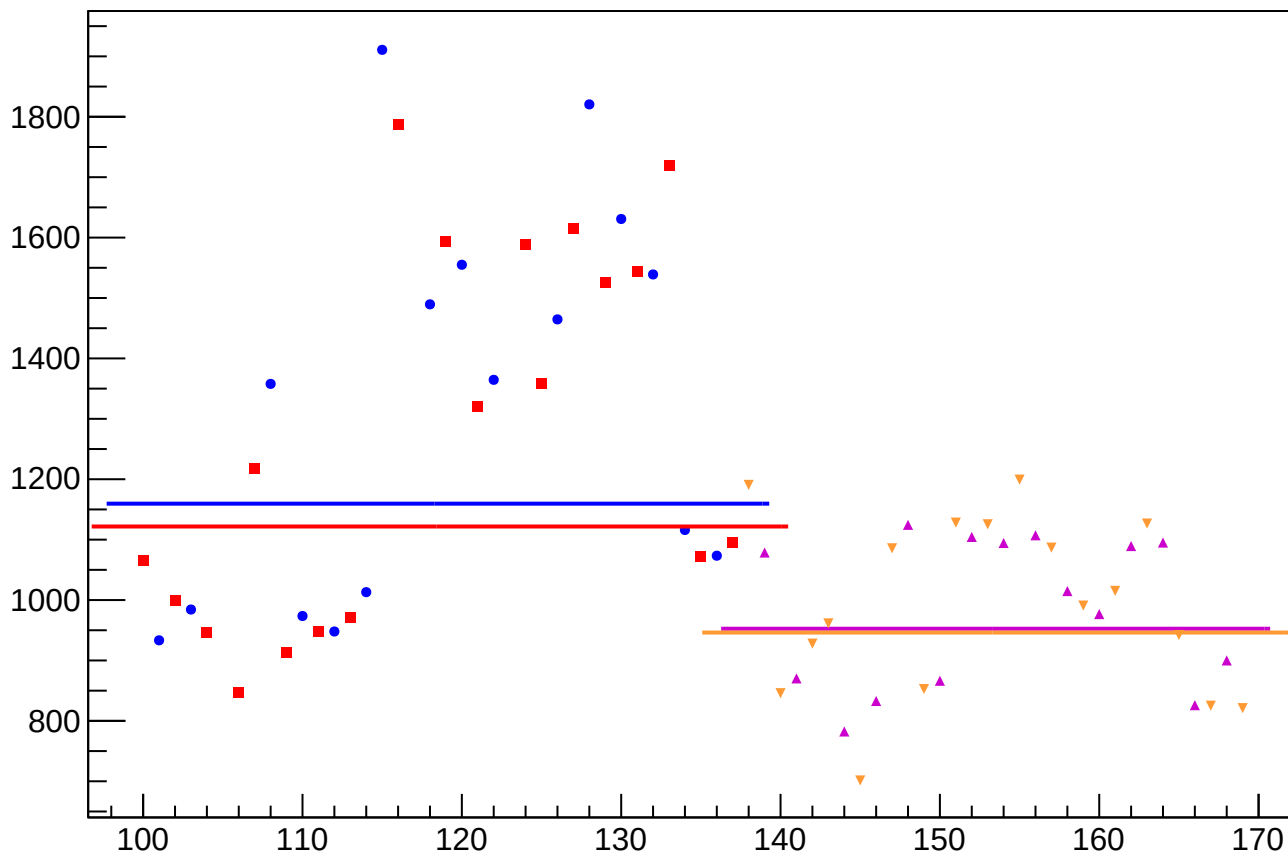
Right: 482.307 $\pm$ 306.263 χ^2 /NDF: 39.7/34

In: 74.792 $\pm$ 233.007 χ^2 /NDF:33.8/30

Out: -717.743 $\pm$ 222.821 χ^2 /NDF:68.5/35

All: -339.176 $\pm$ 161.039 χ^2 /NDF: 108.3/66

asym_sam_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1159.567 $\pm$ 0.314 χ^2 /NDF: 683693.3/15

Left Out: 946.225 $\pm$ 0.185 χ^2 /NDF: 645023.7/16

Right Out: 1121.752 $\pm$ 0.299 χ^2 /NDF: 782273.3/18

Left In: 952.543 $\pm$ 0.194 χ^2 /NDF: 394419.7/14

Left: 949.247 $\pm$ 0.134 χ^2 /NDF: 1039999.2/31

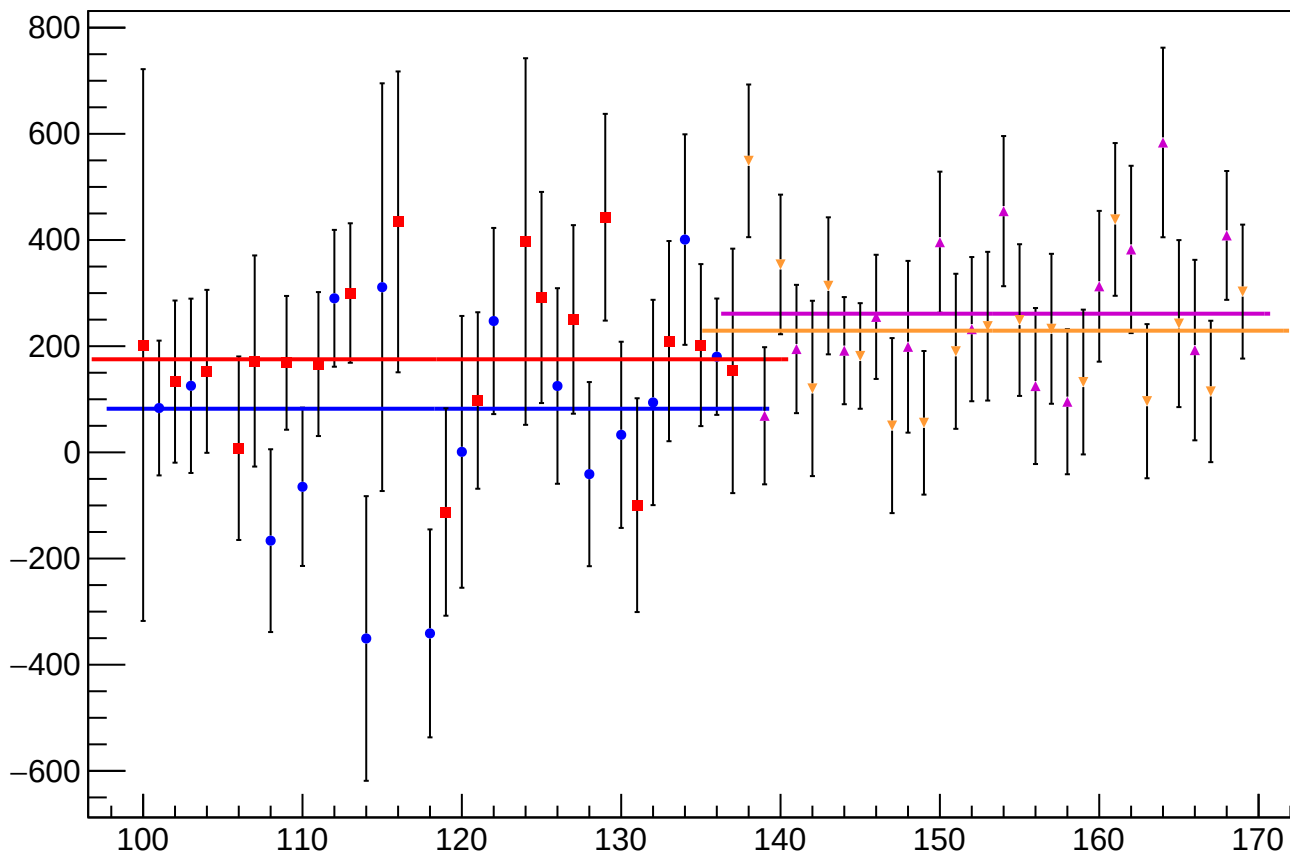
Right: 1139.747 $\pm$ 0.217 χ^2 /NDF: 1473571.5/34

In: 1009.569 $\pm$ 0.165 χ^2 /NDF: 1393209.9/30

Out: 994.921 $\pm$ 0.158 χ^2 /NDF: 1676088.7/35

All: 1001.918 $\pm$ 0.114 χ^2 /NDF: 3073426.7/66

cor_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 82.185 $\pm$ 42.133 χ^2 /NDF: 18.4/15

Left Out: 229.205 $\pm$ 33.304 χ^2 /NDF:14.4/16

Right Out: 175.338 $\pm$ 40.678 χ^2 /NDF: 9.9/18

Left In: 261.201 $\pm$ 34.871 χ^2 /NDF:14.0/14

Left: 244.468 $\pm$ 24.085 χ^2 /NDF: 28.9/31

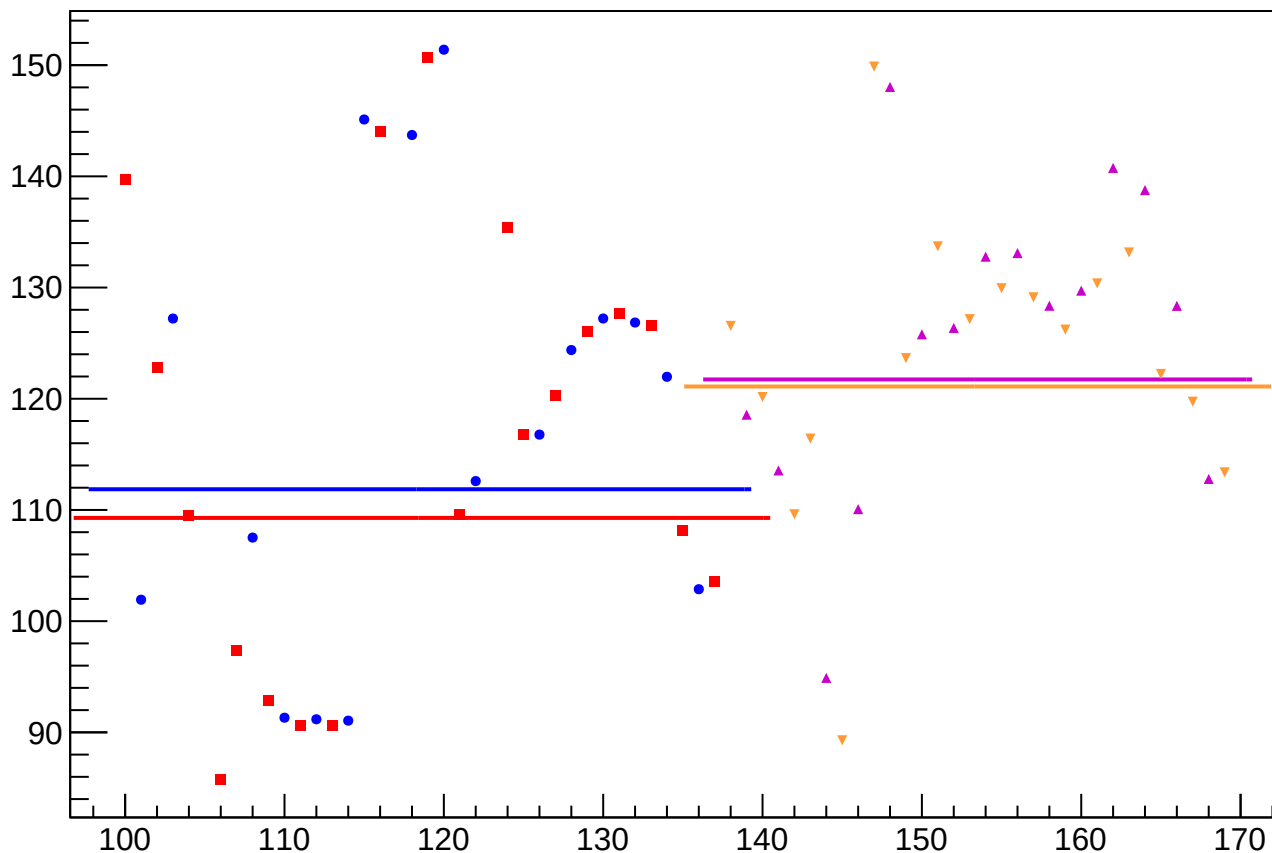
Right: 130.398 $\pm$ 29.265 χ^2 /NDF: 30.8/34

In: 188.427 $\pm$ 26.864 χ^2 /NDF:43.1/30

Out: 207.587 $\pm$ 25.769 χ^2 /NDF:25.4/35

All: 198.405 $\pm$ 18.597 χ^2 /NDF: 68.8/66

cor_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 111.862 $\pm$ 0.030 χ^2 /NDF: 306025.0/15

Left Out: 121.102 $\pm$ 0.024 χ^2 /NDF: 346989.8/16

Right Out: 109.284 $\pm$ 0.029 χ^2 /NDF: 370711.7/18

Left In: 121.736 $\pm$ 0.025 χ^2 /NDF: 325187.5/14

Left: 121.405 $\pm$ 0.017 χ^2 /NDF: 672522.5/31

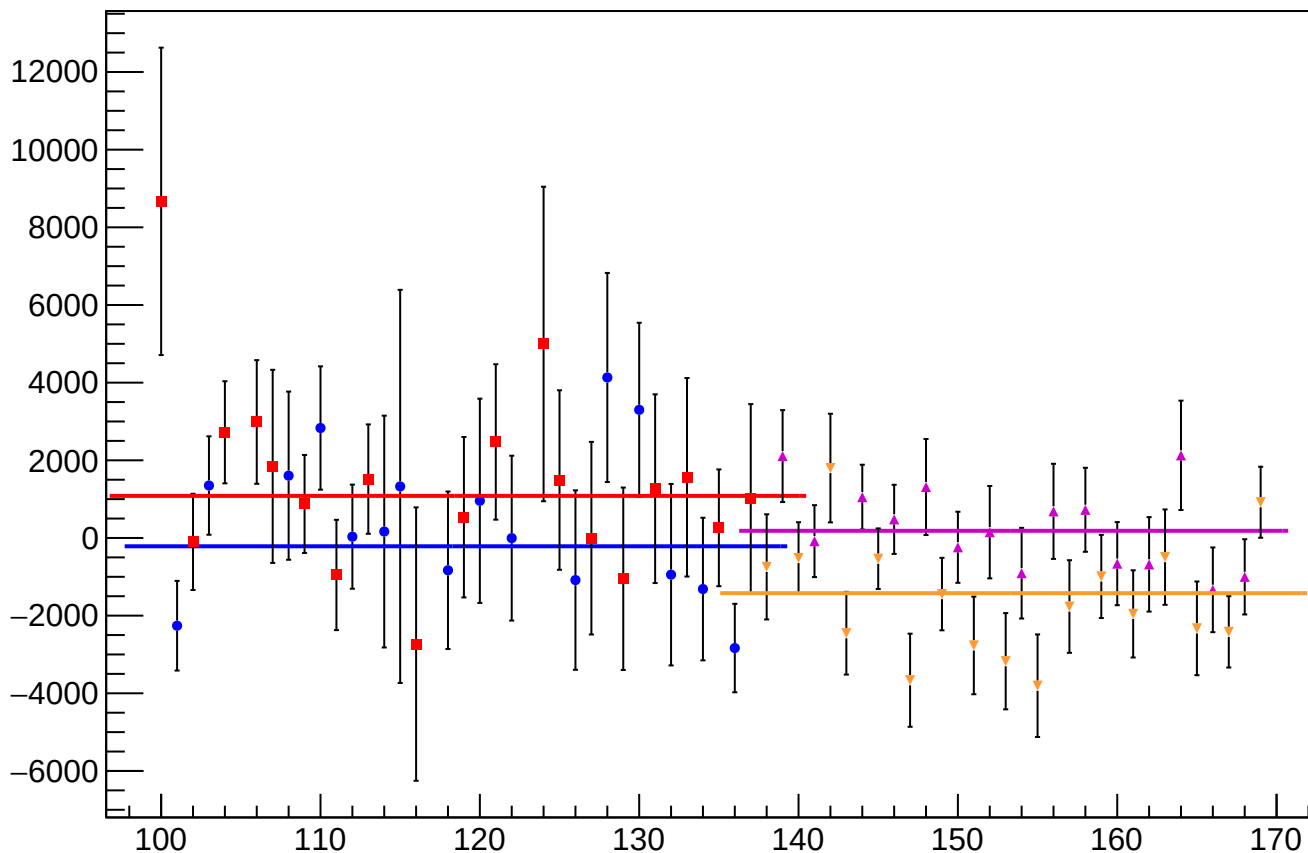
Right: 110.528 $\pm$ 0.021 χ^2 /NDF: 680611.7/34

In: 117.722 $\pm$ 0.019 χ^2 /NDF: 696400.3/30

Out: 116.360 $\pm$ 0.018 χ^2 /NDF: 818769.9/35

All: 117.012 $\pm$ 0.013 χ^2 /NDF: 1517849.1/66

asym_sam_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -214.278+/-443.965 χ^2/NDF : 20.4/15

Left Out: -1421.302+/-262.130 χ^2/NDF : 28.0/16

Right Out: 1083.943+/-423.774 χ^2/NDF : 13.9/18

Left In: 184.664+/-273.739 χ^2/NDF : 12.7/14

Left: -653.094+/-189.325 χ^2/NDF : 58.7/31

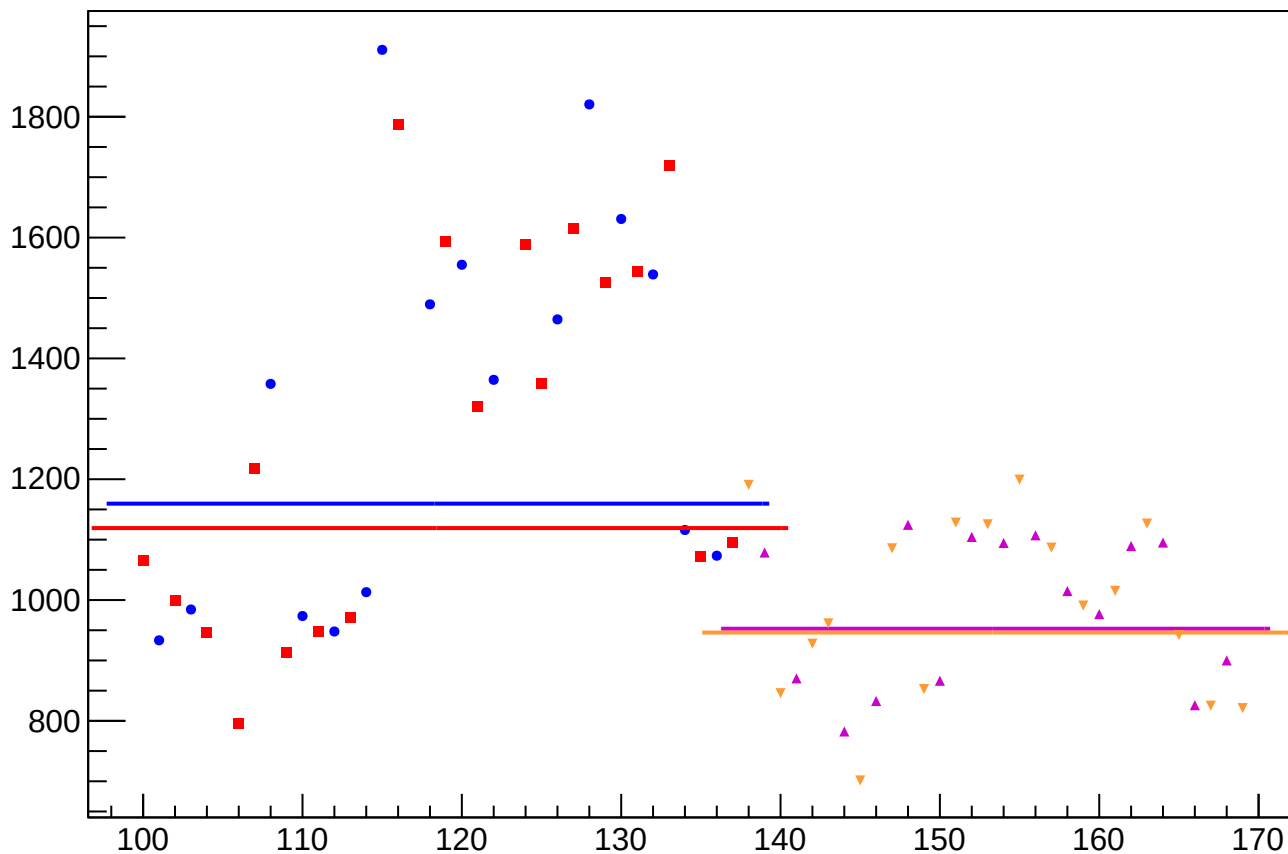
Right: 465.023+/-306.543 χ^2/NDF : 38.8/34

In: 74.775+/-233.008 χ^2/NDF : 33.8/30

Out: -728.016+/-222.929 χ^2/NDF : 67.2/35

All: -344.359+/-161.080 χ^2/NDF : 107.1/66

asym_sam_48_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1159.576 $\pm$ 0.314 χ^2 /NDF: 683662.2/15

Left Out: 946.225 $\pm$ 0.185 χ^2 /NDF: 645024.4/16

Right Out: 1119.156 $\pm$ 0.300 χ^2 /NDF: 803154.6/18

Left In: 952.544 $\pm$ 0.194 χ^2 /NDF: 394417.5/14

Left: 949.248 $\pm$ 0.134 χ^2 /NDF: 1039997.8/31

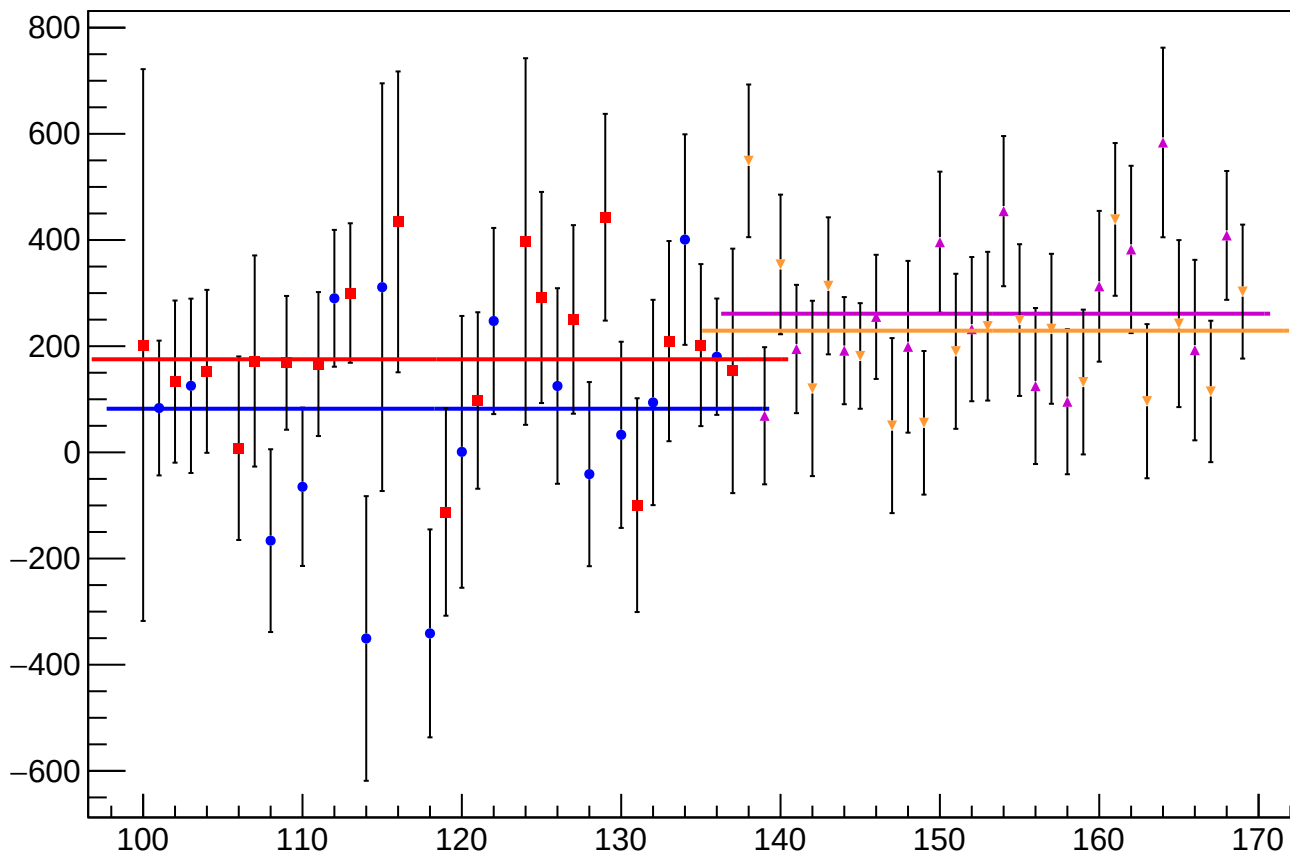
Right: 1138.426 $\pm$ 0.217 χ^2 /NDF: 1495491.5/34

In: 1009.571 $\pm$ 0.165 χ^2 /NDF: 1393201.4/30

Out: 994.081 $\pm$ 0.158 χ^2 /NDF: 1689060.1/35

All: 1001.484 $\pm$ 0.114 χ^2 /NDF: 3086876.3/66

eigen_cor_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 82.185+/-42.133 χ^2/NDF : 18.4/15

Left Out: 229.205+/-33.304 χ^2/NDF :14.4/16

Right Out: 175.338+/-40.678 χ^2/NDF : 9.9/18

Left In: 261.201+/-34.871 χ^2/NDF :14.0/14

Left: 244.468+/-24.085 χ^2/NDF : 28.9/31

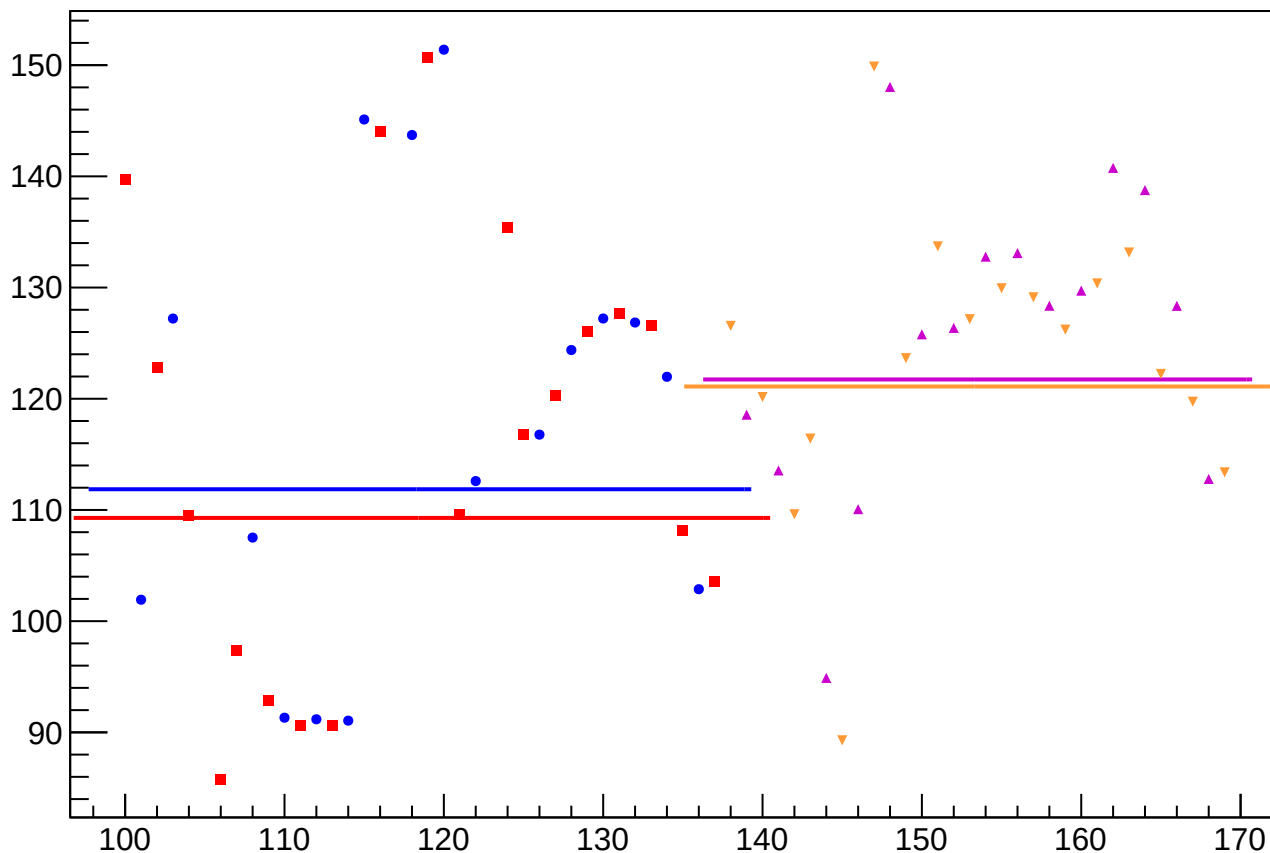
Right: 130.398+/-29.265 χ^2/NDF : 30.8/34

In: 188.427+/-26.864 χ^2/NDF :43.1/30

Out: 207.587+/-25.769 χ^2/NDF :25.4/35

All: 198.405+/-18.597 χ^2/NDF : 68.8/66

eigen_cor_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 111.862 ± 0.030 $\chi^2/\text{NDF}: 306025.0/15$

Left Out: 121.102 ± 0.024 $\chi^2/\text{NDF}: 346989.8/16$

Right Out: 109.284 ± 0.029 $\chi^2/\text{NDF}: 370711.7/18$

Left In: 121.736 ± 0.025 $\chi^2/\text{NDF}: 325187.5/14$

Left: 121.405 ± 0.017 $\chi^2/\text{NDF}: 672522.5/31$

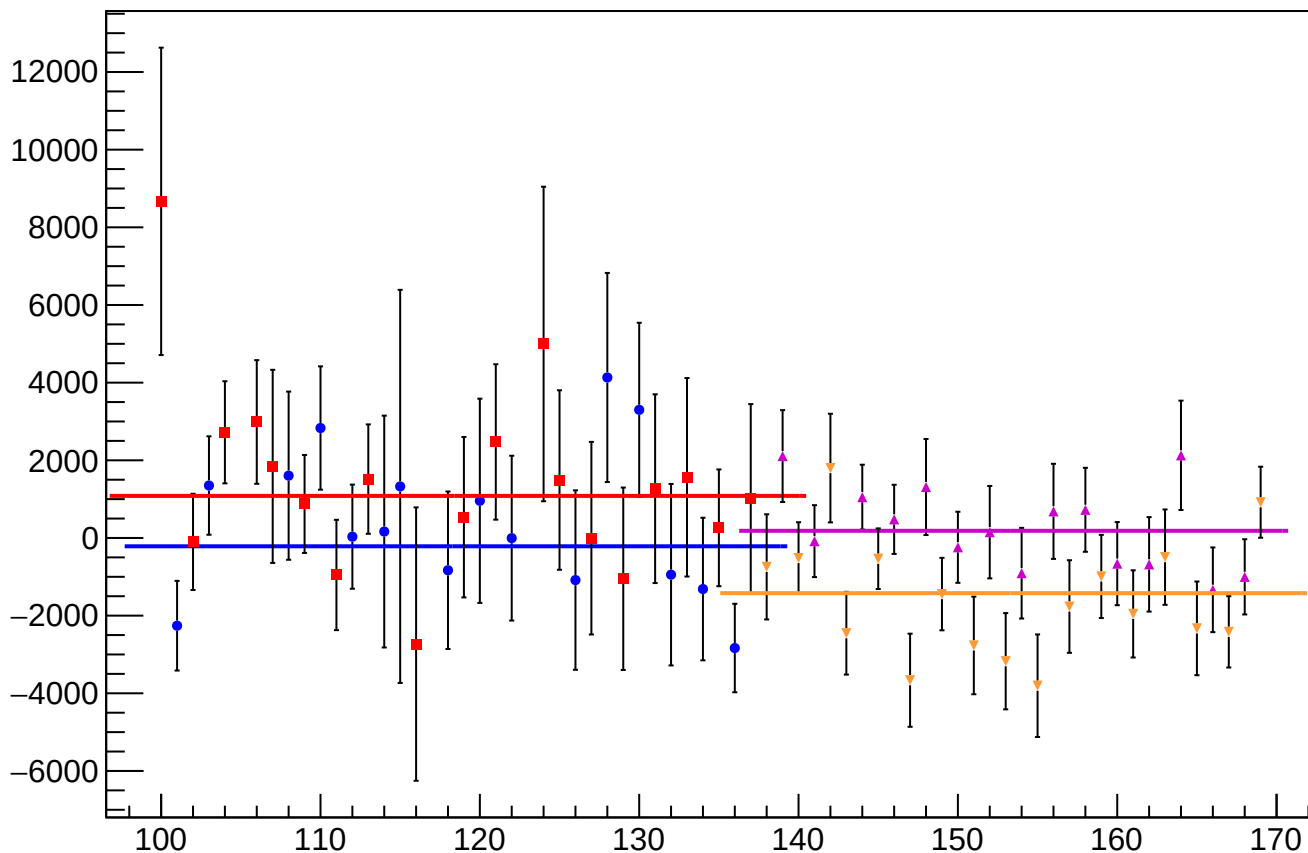
Right: 110.528 ± 0.021 $\chi^2/\text{NDF}: 680611.7/34$

In: 117.722 ± 0.019 $\chi^2/\text{NDF}: 696400.3/30$

Out: 116.360 ± 0.018 $\chi^2/\text{NDF}: 818769.9/35$

All: 117.012 ± 0.013 $\chi^2/\text{NDF}: 1517849.1/66$

asym_sam_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -214.278 $\pm$ 443.965 χ^2 /NDF: 20.4/15

Left Out: -1421.302 $\pm$ 262.130 χ^2 /NDF:28.0/16

Right Out: 1083.943 $\pm$ 423.774 χ^2 /NDF: 13.9/18

Left In: 184.664 $\pm$ 273.739 χ^2 /NDF:12.7/14

Left: -653.094 $\pm$ 189.325 χ^2 /NDF: 58.7/31

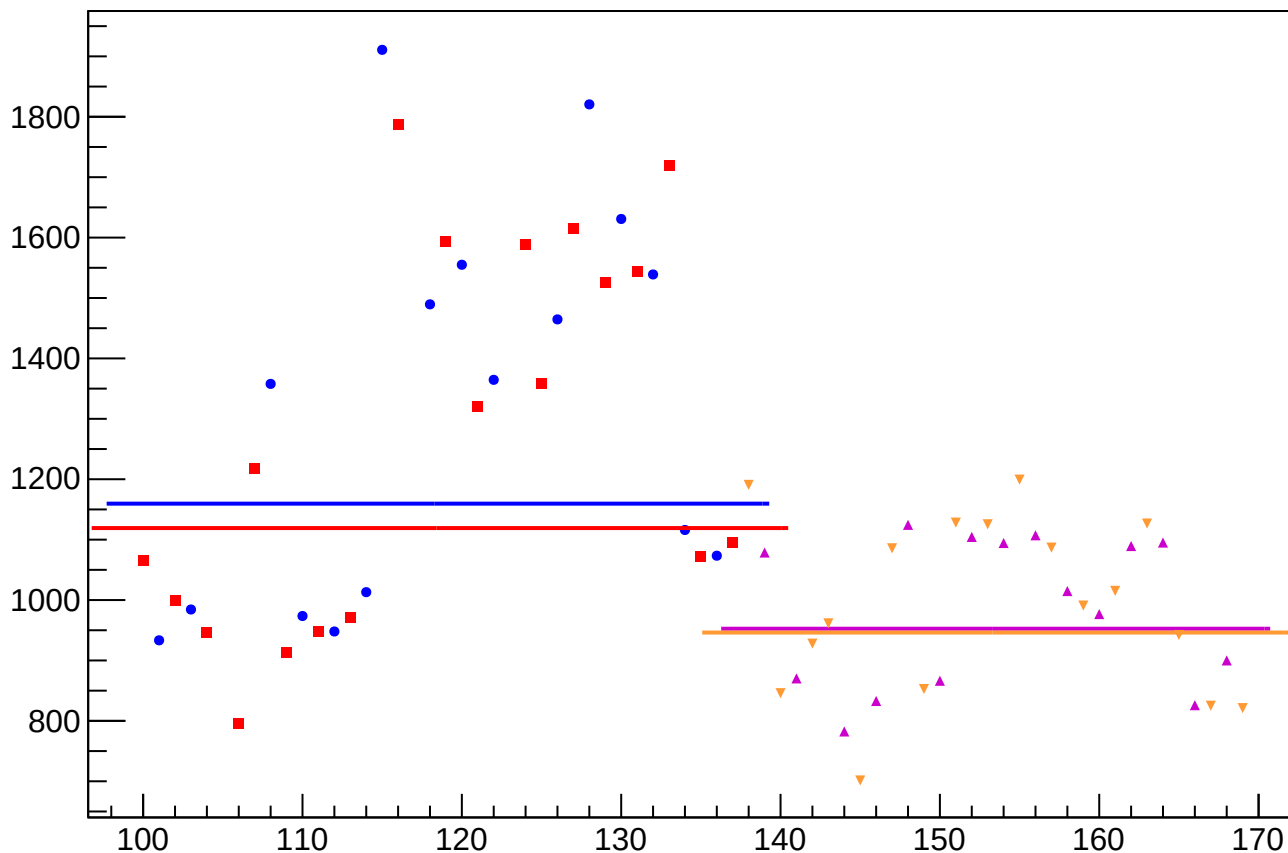
Right: 465.023 $\pm$ 306.543 χ^2 /NDF: 38.8/34

In: 74.775 $\pm$ 233.008 χ^2 /NDF:33.8/30

Out: -728.016 $\pm$ 222.929 χ^2 /NDF:67.2/35

All: -344.359 $\pm$ 161.080 χ^2 /NDF: 107.1/66

asym_sam_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1159.576 $\pm$ 0.314 χ^2 /NDF: 683662.2/15

Left Out: 946.225 $\pm$ 0.185 χ^2 /NDF: 645024.4/16

Right Out: 1119.156 $\pm$ 0.300 χ^2 /NDF: 803154.6/18

Left In: 952.544 $\pm$ 0.194 χ^2 /NDF: 394417.5/14

Left: 949.248 $\pm$ 0.134 χ^2 /NDF: 1039997.8/31

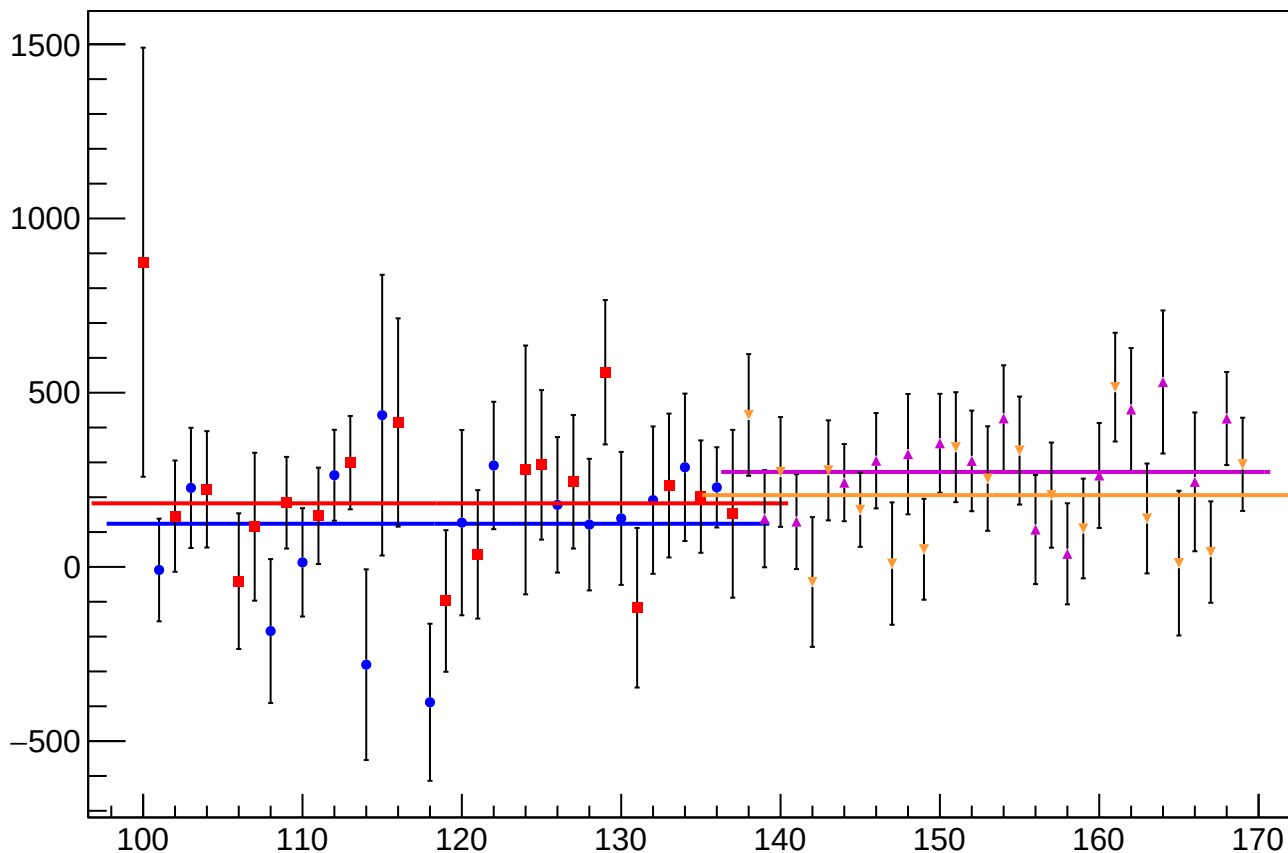
Right: 1138.426 $\pm$ 0.217 χ^2 /NDF: 1495491.5/34

In: 1009.571 $\pm$ 0.165 χ^2 /NDF: 1393201.4/30

Out: 994.081 $\pm$ 0.158 χ^2 /NDF: 1689060.1/35

All: 1001.484 $\pm$ 0.114 χ^2 /NDF: 3086876.3/66

dit_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 123.892 $\pm$ 45.238 χ^2 /NDF: 15.4/15

Left Out: 206.082 $\pm$ 36.632 χ^2 /NDF:15.2/16

Right Out: 182.467 $\pm$ 43.224 χ^2 /NDF: 12.3/18

Left In: 272.555 $\pm$ 38.236 χ^2 /NDF:11.3/14

Left: 237.896 $\pm$ 26.452 χ^2 /NDF: 28.1/31

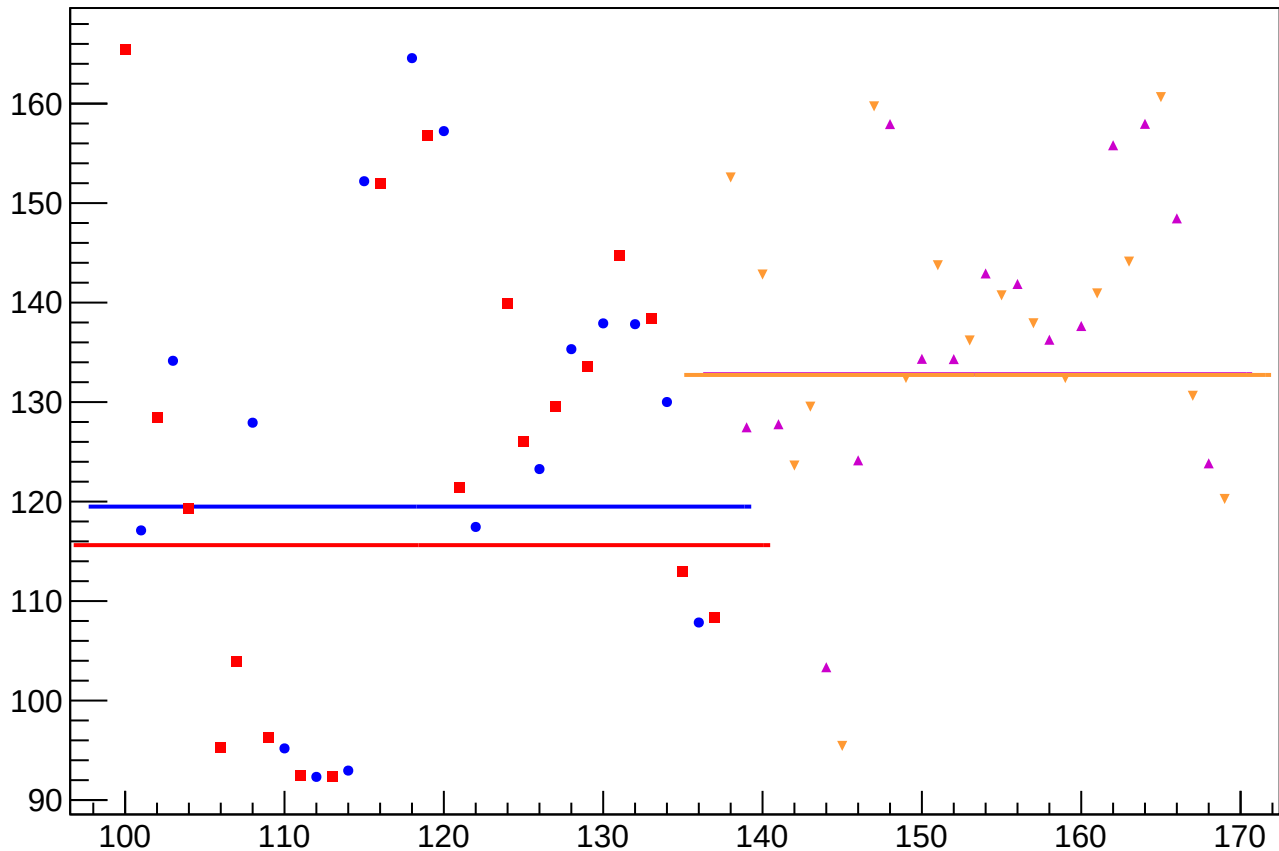
Right: 154.513 $\pm$ 31.252 χ^2 /NDF: 28.6/34

In: 210.608 $\pm$ 29.202 χ^2 /NDF:33.1/30

Out: 196.211 $\pm$ 27.946 χ^2 /NDF:27.7/35

All: 203.093 $\pm$ 20.190 χ^2 /NDF: 60.9/66

dit_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 119.495+/-0.032 χ^2/NDF : 380250.8/15

Left Out: 132.729+/-0.026 χ^2/NDF : 420762.1/16

Right Out: 115.622+/-0.031 χ^2/NDF : 426961.7/18

Left In: 132.803+/-0.027 χ^2/NDF : 302026.2/14

Left: 132.764+/-0.019 χ^2/NDF : 722792.2/31

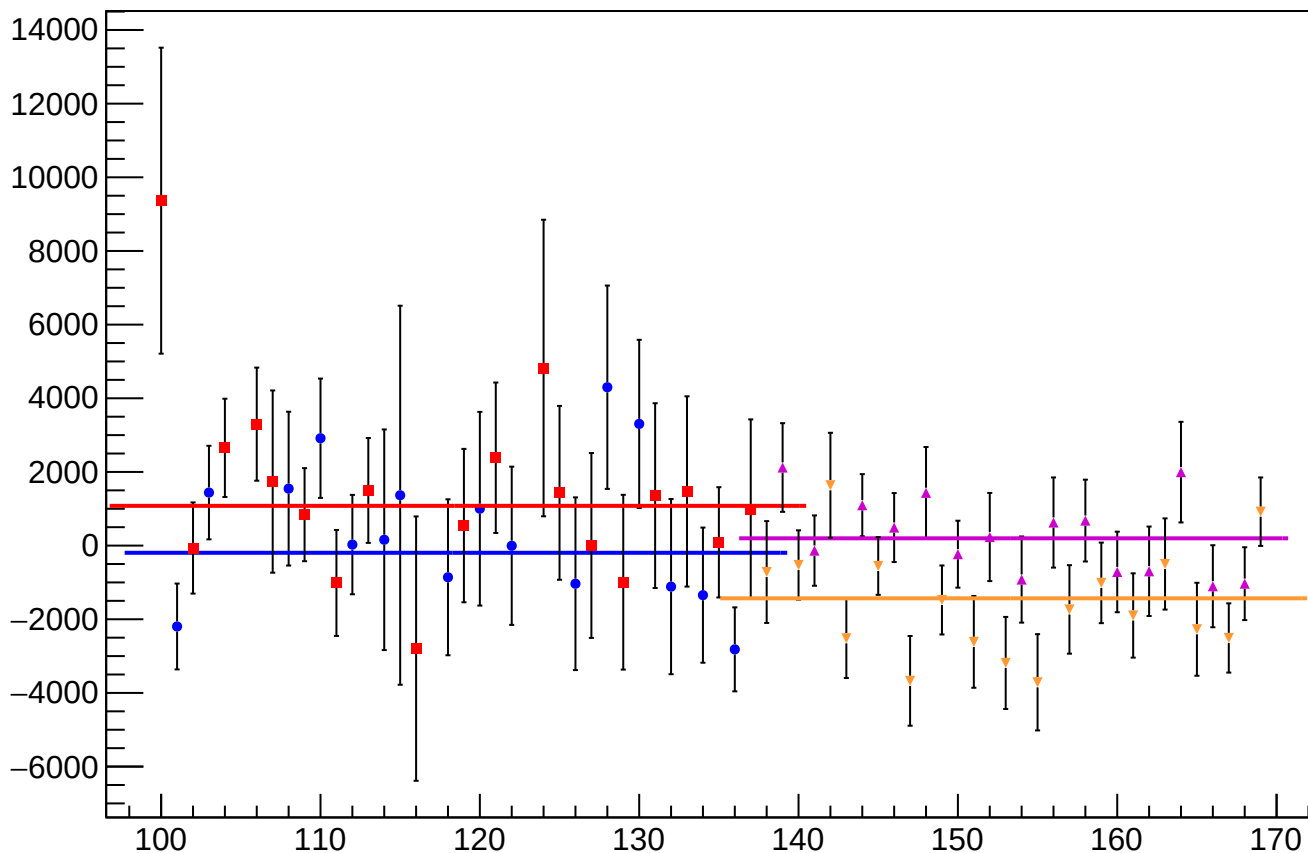
Right: 117.470+/-0.022 χ^2/NDF : 814875.1/34

In: 127.257+/-0.021 χ^2/NDF : 783238.9/30

Out: 125.578+/-0.020 χ^2/NDF : 1030048.4/35

All: 126.381+/-0.014 χ^2/NDF : 1816739.9/66

asym_sam_48_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -195.086 ± 447.334 $\chi^2/\text{NDF}: 20.4/15$

Left Out: -1431.421 ± 265.556 $\chi^2/\text{NDF}: 26.5/16$

Right Out: 1079.393 ± 425.950 $\chi^2/\text{NDF}: 14.6/18$

Left In: 197.732 ± 277.632 $\chi^2/\text{NDF}: 12.2/14$

Left: -653.046 ± 191.904 $\chi^2/\text{NDF}: 56.7/31$

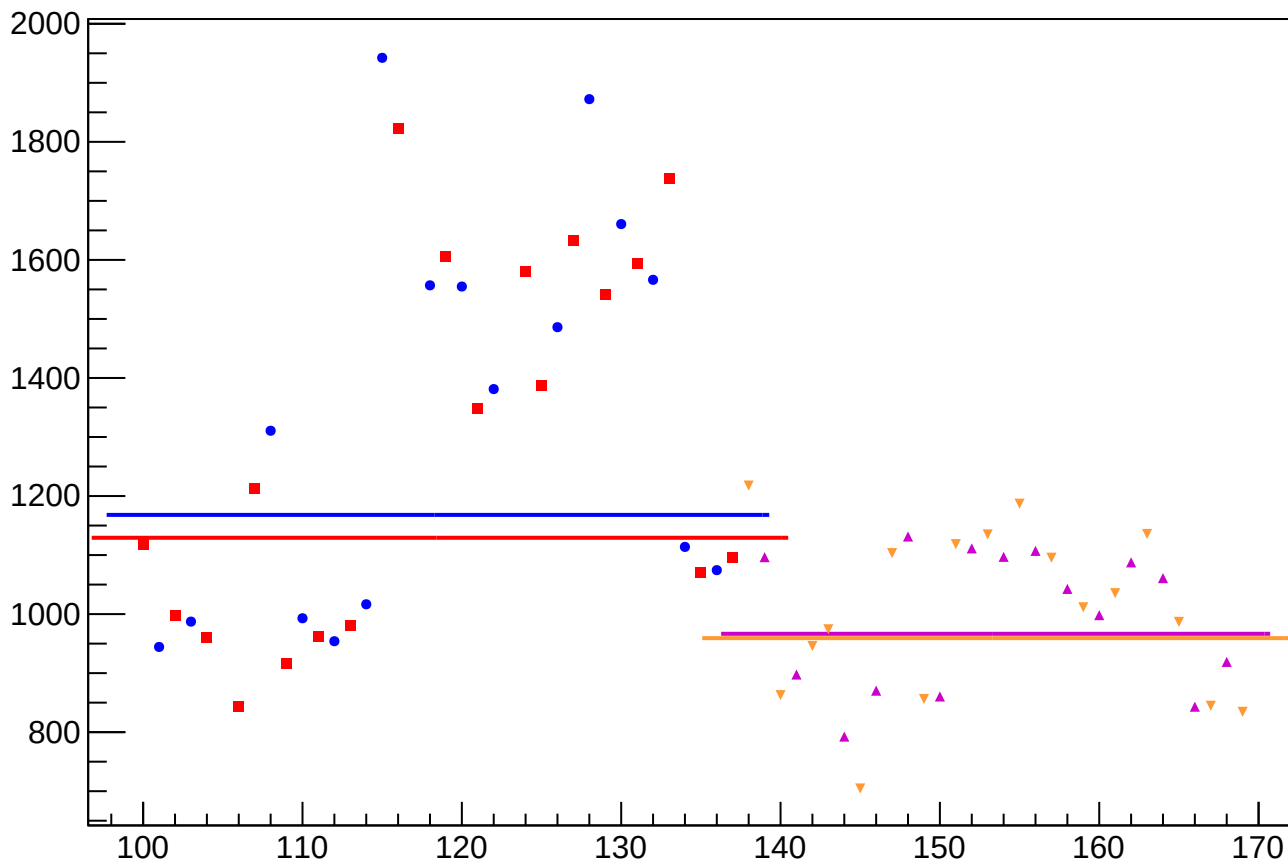
Right: 473.342 ± 308.475 $\chi^2/\text{NDF}: 39.2/34$

In: 88.498 ± 235.893 $\chi^2/\text{NDF}: 33.2/30$

Out: -728.661 ± 225.349 $\chi^2/\text{NDF}: 66.1/35$

All: -338.753 ± 162.946 $\chi^2/\text{NDF}: 105.6/66$

asym_sam_48_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1168.063 ± 0.316 χ^2/NDF : 709363.8/15

Left Out: 959.254 ± 0.188 χ^2/NDF : 634668.6/16

Right Out: 1129.316 ± 0.301 χ^2/NDF : 807222.5/18

Left In: 966.651 ± 0.196 χ^2/NDF : 352428.5/14

Left: 962.788 ± 0.136 χ^2/NDF : 987838.6/31

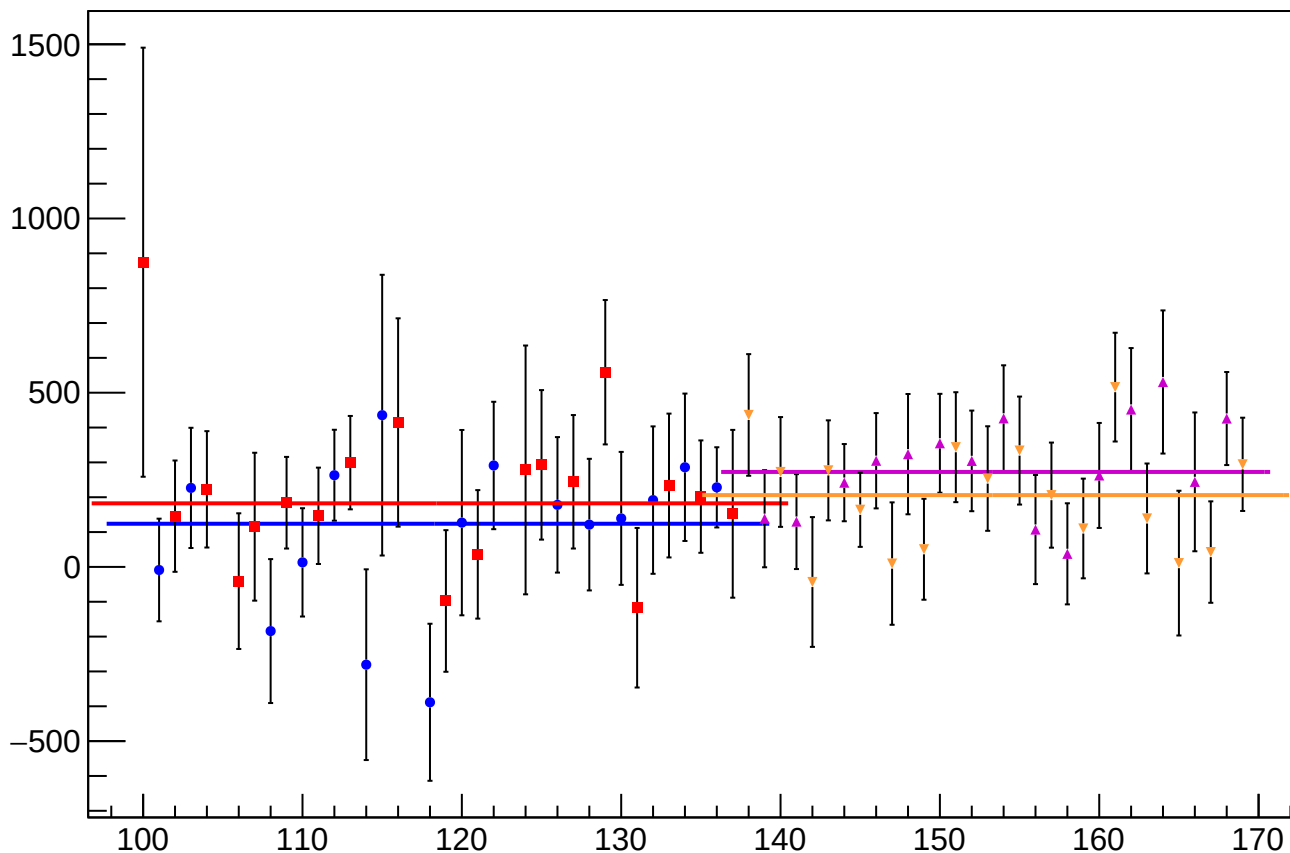
Right: 1147.741 ± 0.218 χ^2/NDF : 1524455.8/34

In: 1022.659 ± 0.167 χ^2/NDF : 1354494.1/30

Out: 1006.853 ± 0.159 χ^2/NDF : 1671467.0/35

All: 1014.395 ± 0.115 χ^2/NDF : 3030655.9/66

eigen_dit_asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 123.895 $\pm$ 45.238 χ^2 /NDF: 15.4/15

Left Out: 206.085 $\pm$ 36.632 χ^2 /NDF:15.2/16

Right Out: 182.468 $\pm$ 43.224 χ^2 /NDF: 12.3/18

Left In: 272.556 $\pm$ 38.236 χ^2 /NDF:11.3/14

Left: 237.898 $\pm$ 26.452 χ^2 /NDF: 28.1/31

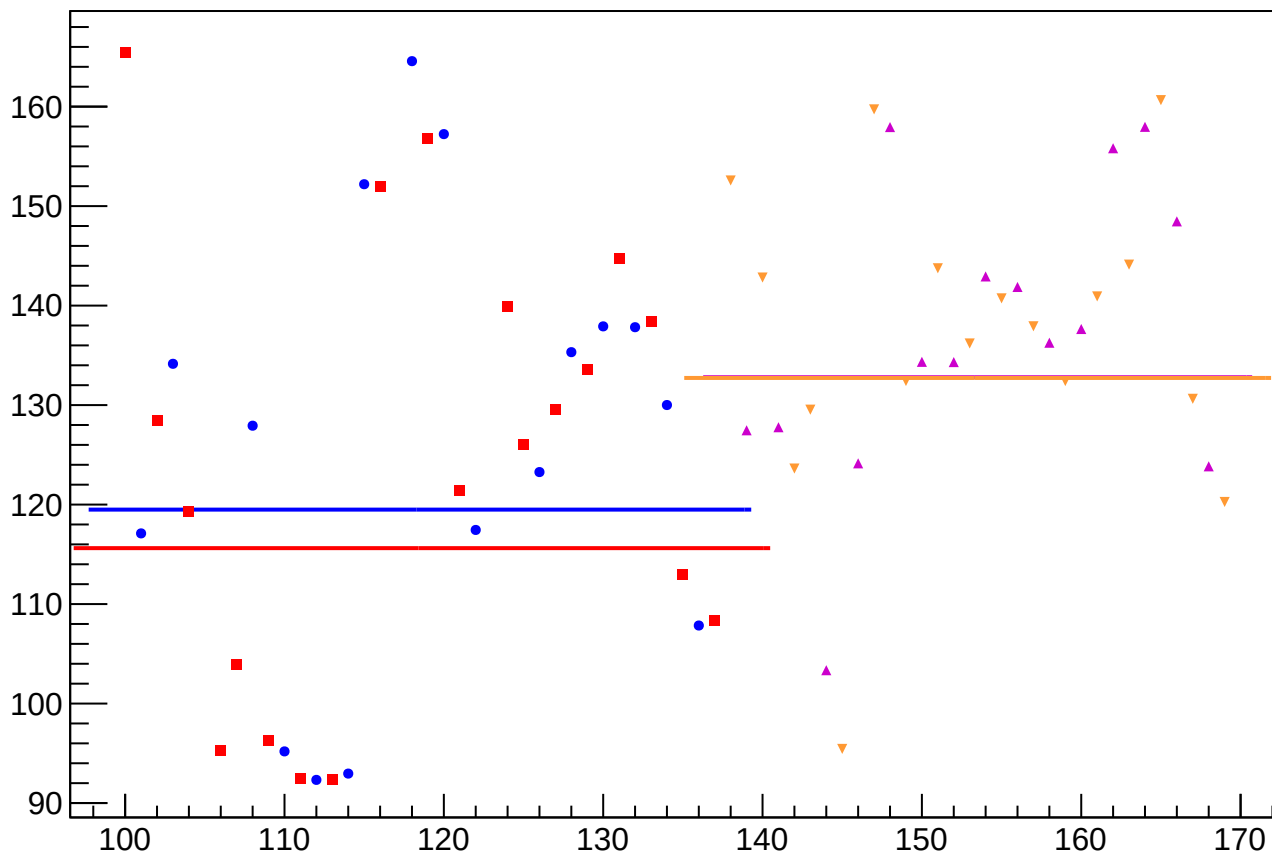
Right: 154.514 $\pm$ 31.252 χ^2 /NDF: 28.6/34

In: 210.609 $\pm$ 29.202 χ^2 /NDF:33.1/30

Out: 196.213 $\pm$ 27.946 χ^2 /NDF:27.7/35

All: 203.095 $\pm$ 20.190 χ^2 /NDF: 60.9/66

eigen_dit_asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 119.495 $\pm$ 0.032 χ^2 /NDF: 380254.2/15

Left Out: 132.729 $\pm$ 0.026 χ^2 /NDF: 420763.5/16

Right Out: 115.622 $\pm$ 0.031 χ^2 /NDF: 426966.4/18

Left In: 132.803 $\pm$ 0.027 χ^2 /NDF: 302026.1/14

Left: 132.764 $\pm$ 0.019 χ^2 /NDF: 722793.5/31

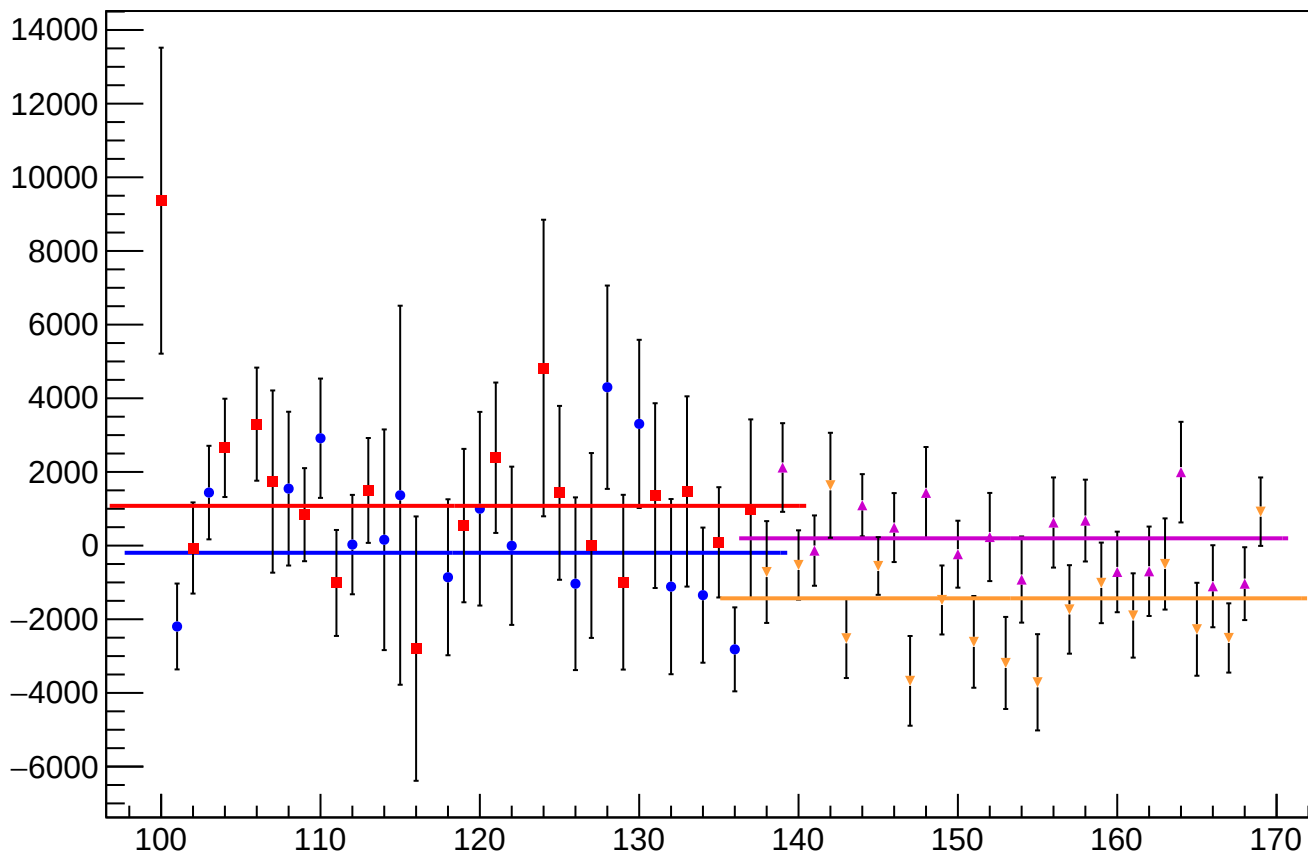
Right: 117.470 $\pm$ 0.022 χ^2 /NDF: 814883.4/34

In: 127.257 $\pm$ 0.021 χ^2 /NDF: 783242.5/30

Out: 125.578 $\pm$ 0.020 χ^2 /NDF: 1030056.4/35

All: 126.381 $\pm$ 0.014 χ^2 /NDF: 1816751.6/66

asym_sam_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -195.085 ± 447.334 $\chi^2/\text{NDF}: 20.4/15$

Left Out: -1431.417 ± 265.556 $\chi^2/\text{NDF}: 26.5/16$

Right Out: 1079.393 ± 425.950 $\chi^2/\text{NDF}: 14.6/18$

Left In: 197.731 ± 277.632 $\chi^2/\text{NDF}: 12.2/14$

Left: -653.045 ± 191.904 $\chi^2/\text{NDF}: 56.7/31$

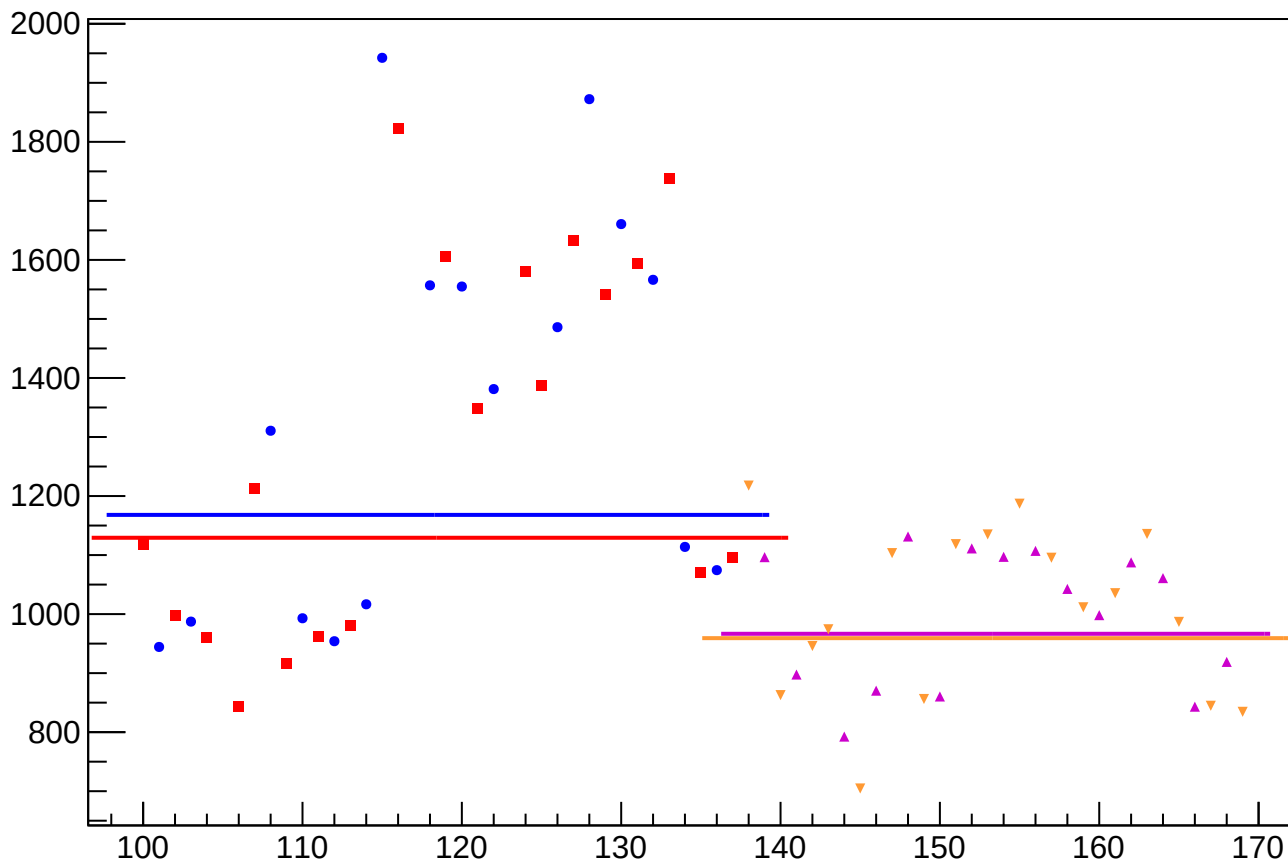
Right: 473.342 ± 308.475 $\chi^2/\text{NDF}: 39.2/34$

In: 88.498 ± 235.893 $\chi^2/\text{NDF}: 33.2/30$

Out: -728.660 ± 225.348 $\chi^2/\text{NDF}: 66.1/35$

All: -338.752 ± 162.946 $\chi^2/\text{NDF}: 105.6/66$

asym_sam_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1168.063 $\pm$ 0.316 χ^2/NDF : 709365.6/15

Left Out: 959.253 $\pm$ 0.188 χ^2/NDF : 634674.8/16

Right Out: 1129.316 $\pm$ 0.301 χ^2/NDF : 807224.0/18

Left In: 966.651 $\pm$ 0.196 χ^2/NDF : 352428.6/14

Left: 962.787 $\pm$ 0.136 χ^2/NDF : 987845.0/31

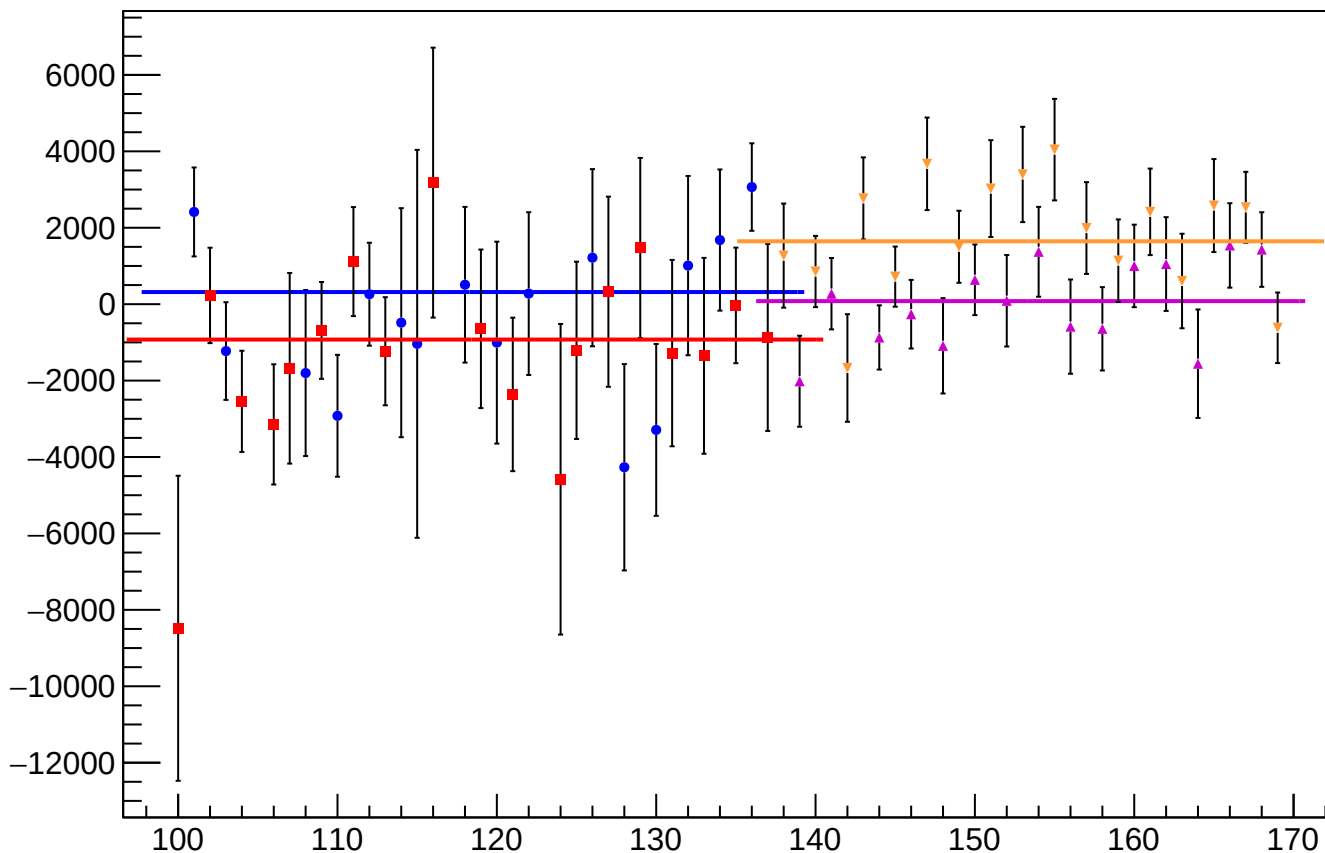
Right: 1147.741 $\pm$ 0.218 χ^2/NDF : 1524459.2/34

In: 1022.659 $\pm$ 0.167 χ^2/NDF : 1354497.8/30

Out: 1006.852 $\pm$ 0.159 χ^2/NDF : 1671477.0/35

All: 1014.394 $\pm$ 0.115 χ^2/NDF : 3030669.8/66

asym_sam_48_dd_mean vs Slug, Sign Corrected



Right In: 317.365 ± 446.341 $\chi^2/\text{NDF}: 22.2/15$

Left Out: 1645.507 ± 264.356 $\chi^2/\text{NDF}: 27.1/16$

Right Out: -926.036 ± 425.405 $\chi^2/\text{NDF}: 14.5/18$

Left In: 80.014 ± 276.061 $\chi^2/\text{NDF}: 14.1/14$

Left: 896.653 ± 190.932 $\chi^2/\text{NDF}: 57.9/31$

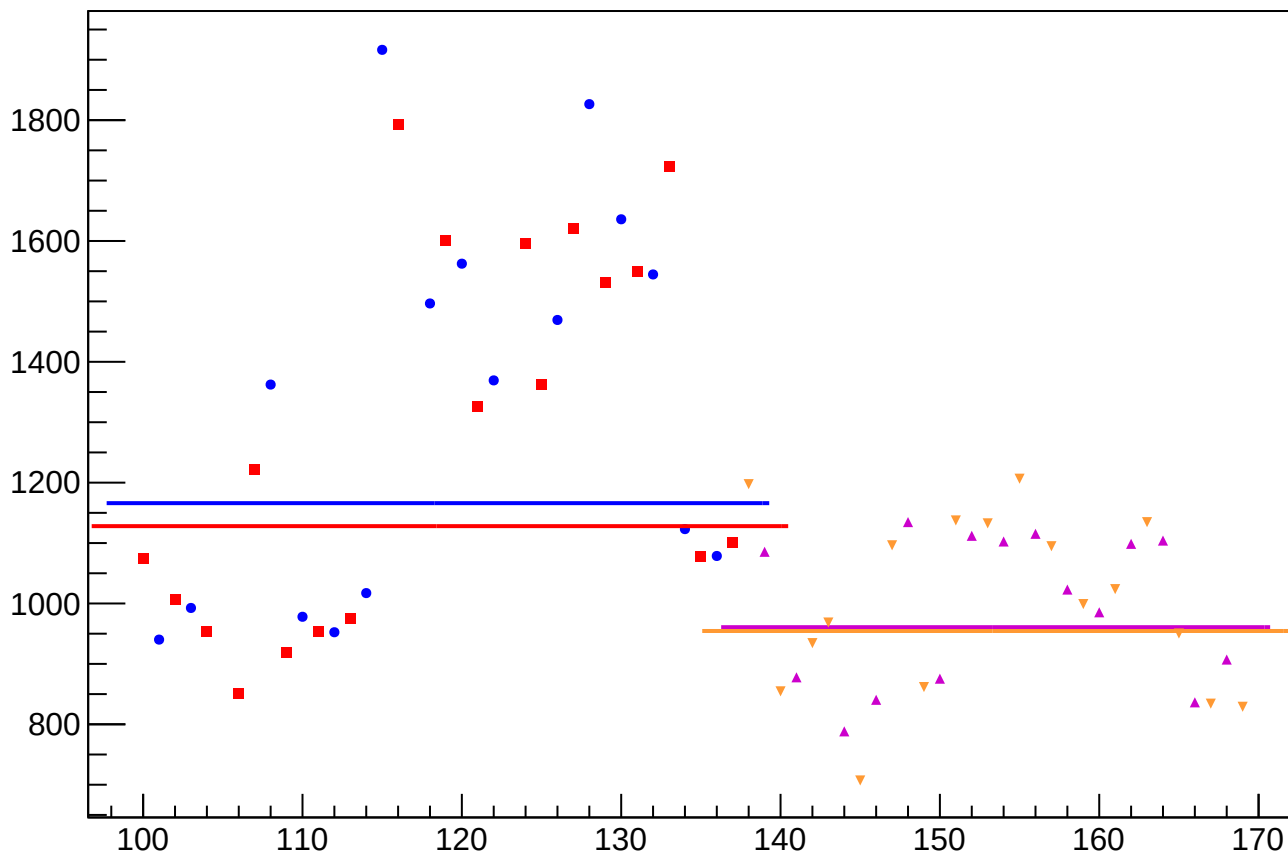
Right: -334.180 ± 307.942 $\chi^2/\text{NDF}: 40.8/34$

In: 145.688 ± 234.783 $\chi^2/\text{NDF}: 36.5/30$

Out: 929.113 ± 224.534 $\chi^2/\text{NDF}: 67.9/35$

All: 554.873 ± 162.272 $\chi^2/\text{NDF}: 110.2/66$

asym_sam_48_dd_rms vs Slug, Sign Corrected



Right In: 1166.056 $\pm$ 0.316 χ^2/NDF : 677063.1/15

Left Out: 954.462 $\pm$ 0.187 χ^2/NDF : 637644.8/16

Right Out: 1128.006 $\pm$ 0.301 χ^2/NDF : 775766.7/18

Left In: 960.764 $\pm$ 0.195 χ^2/NDF : 390561.7/14

Left: 957.477 $\pm$ 0.135 χ^2/NDF : 1028750.1/31

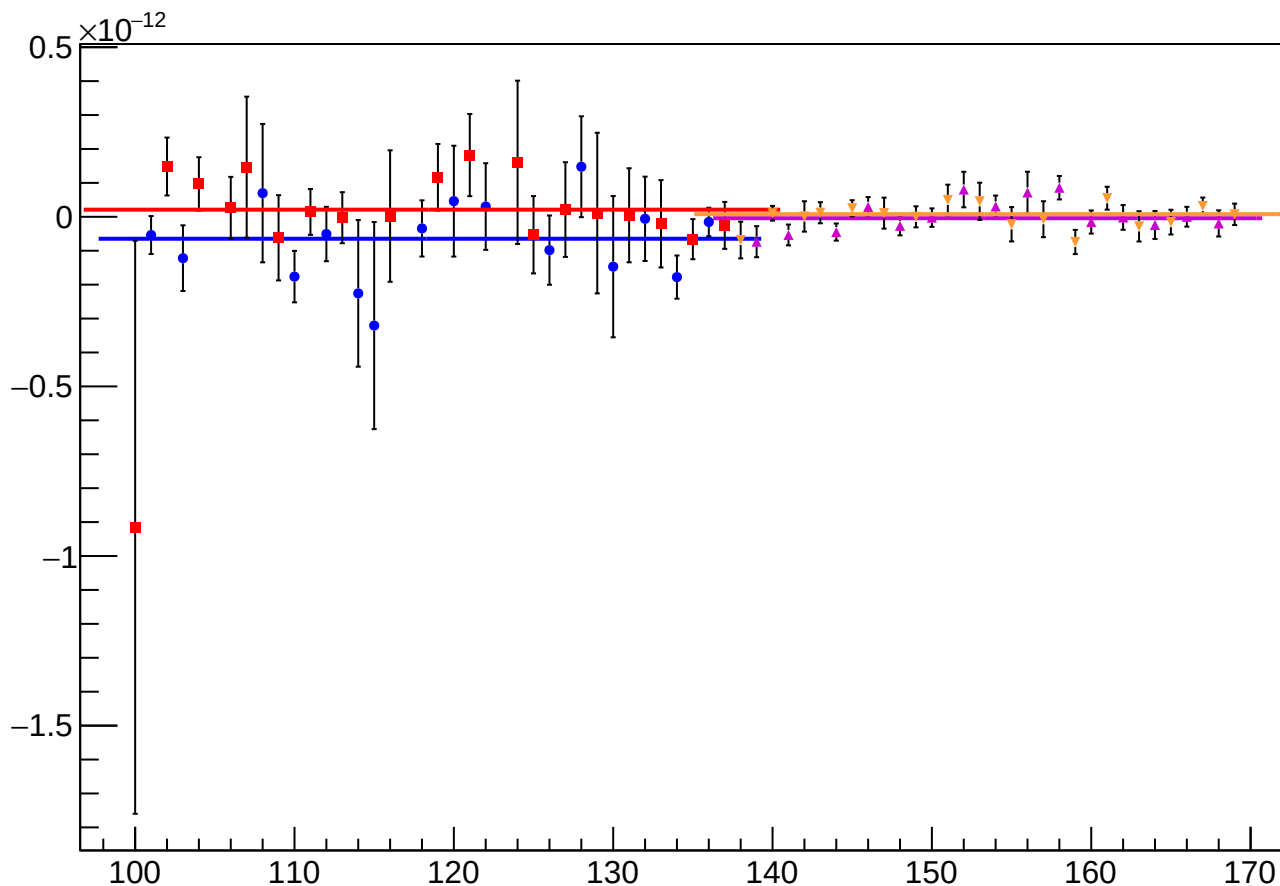
Right: 1146.118 $\pm$ 0.218 χ^2/NDF : 1460446.1/34

In: 1017.567 $\pm$ 0.166 χ^2/NDF : 1373655.7/30

Out: 1002.809 $\pm$ 0.159 χ^2/NDF : 1653532.1/35

All: 1009.859 $\pm$ 0.115 χ^2/NDF : 3031315.2/60

asym_sam_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 12.5/15

Left Out: 0.000+/-0.000 χ^2 /NDF:13.6/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 11.5/18

Left In: -0.000+/-0.000 χ^2 /NDF:22.1/14

Left: 0.000+/-0.000 χ^2 /NDF: 36.7/31

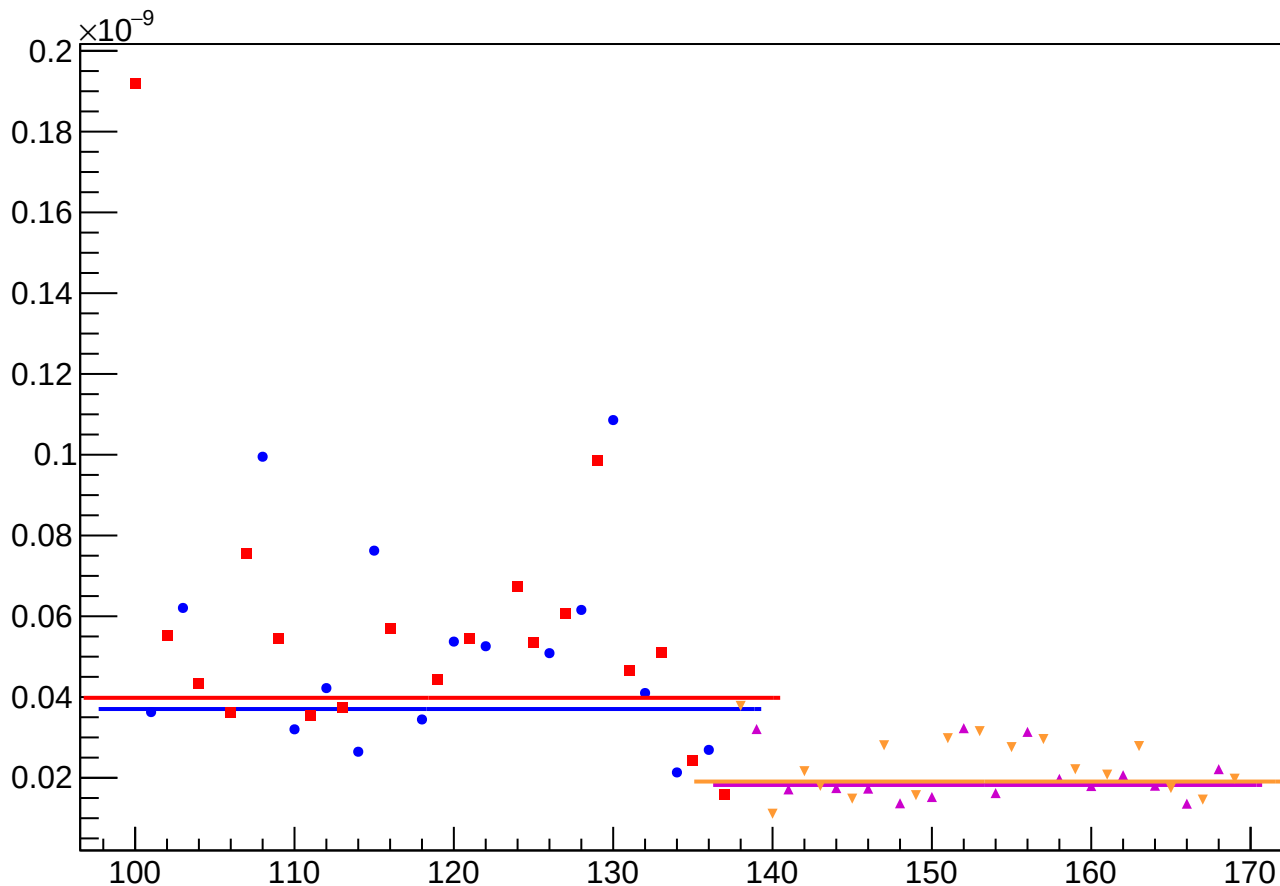
Right: -0.000+/-0.000 χ^2 /NDF: 31.3/34

In: -0.000+/-0.000 χ^2 /NDF:41.2/30

Out: 0.000+/-0.000 χ^2 /NDF:25.4/35

All: -0.000+/-0.000 χ^2 /NDF: 70.3/66

asym_sam_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 995390.8/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1201278.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 903728.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 593472.0/14

Left: 0.000+/-0.000 χ^2/NDF : 1804668.2/31

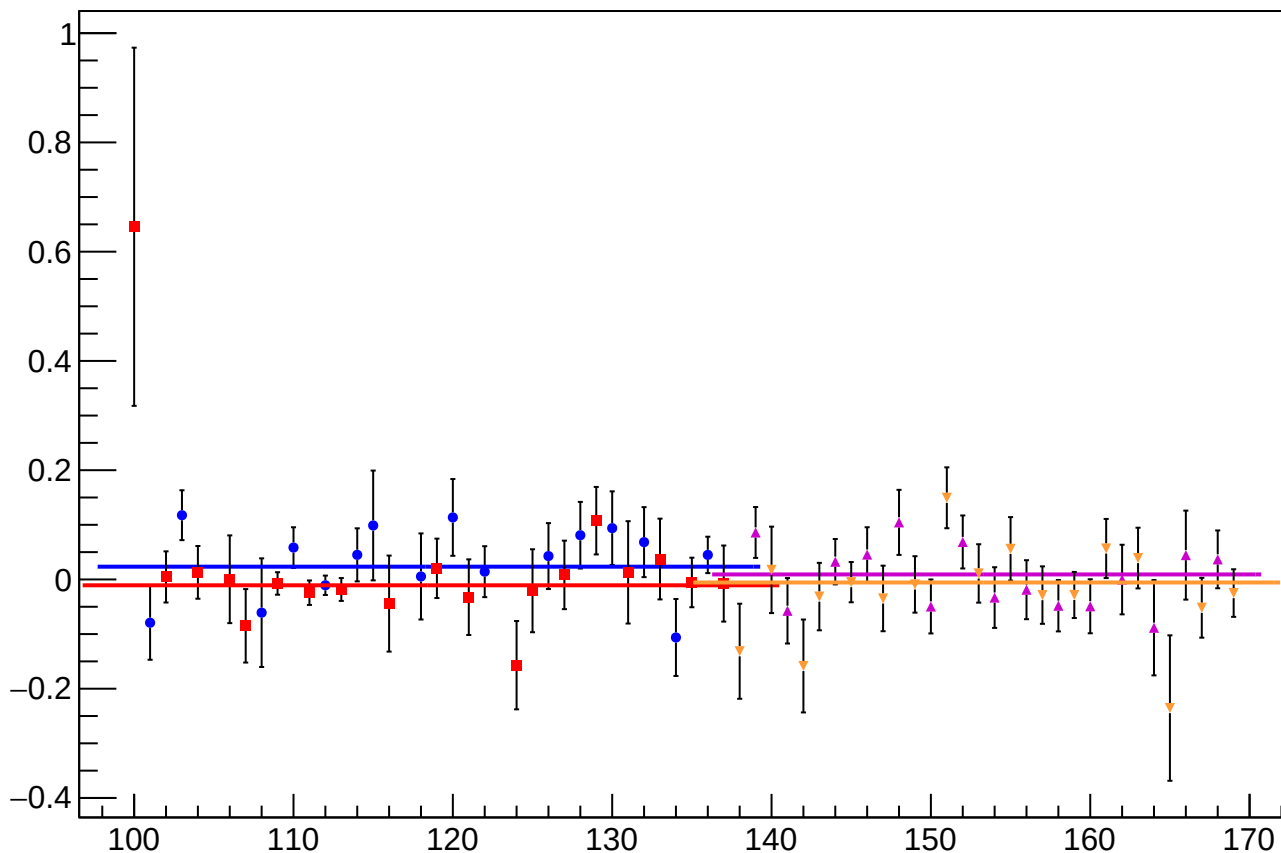
Right: 0.000+/-0.000 χ^2/NDF : 1914342.0/34

In: 0.000+/-0.000 χ^2/NDF : 2871405.0/30

Out: 0.000+/-0.000 χ^2/NDF : 3528725.1/35

All: 0.000+/-0.000 χ^2/NDF : 6407709.0/66

asym_sam_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.023 $\pm$ 0.011 χ^2 /NDF: 20.7/15

Left Out: -0.006 $\pm$ 0.013 χ^2 /NDF:21.1/16

Right Out: -0.011 $\pm$ 0.010 χ^2 /NDF: 14.2/18

Left In: 0.009 $\pm$ 0.014 χ^2 /NDF:15.7/14

Left: 0.002 $\pm$ 0.010 χ^2 /NDF: 37.4/31

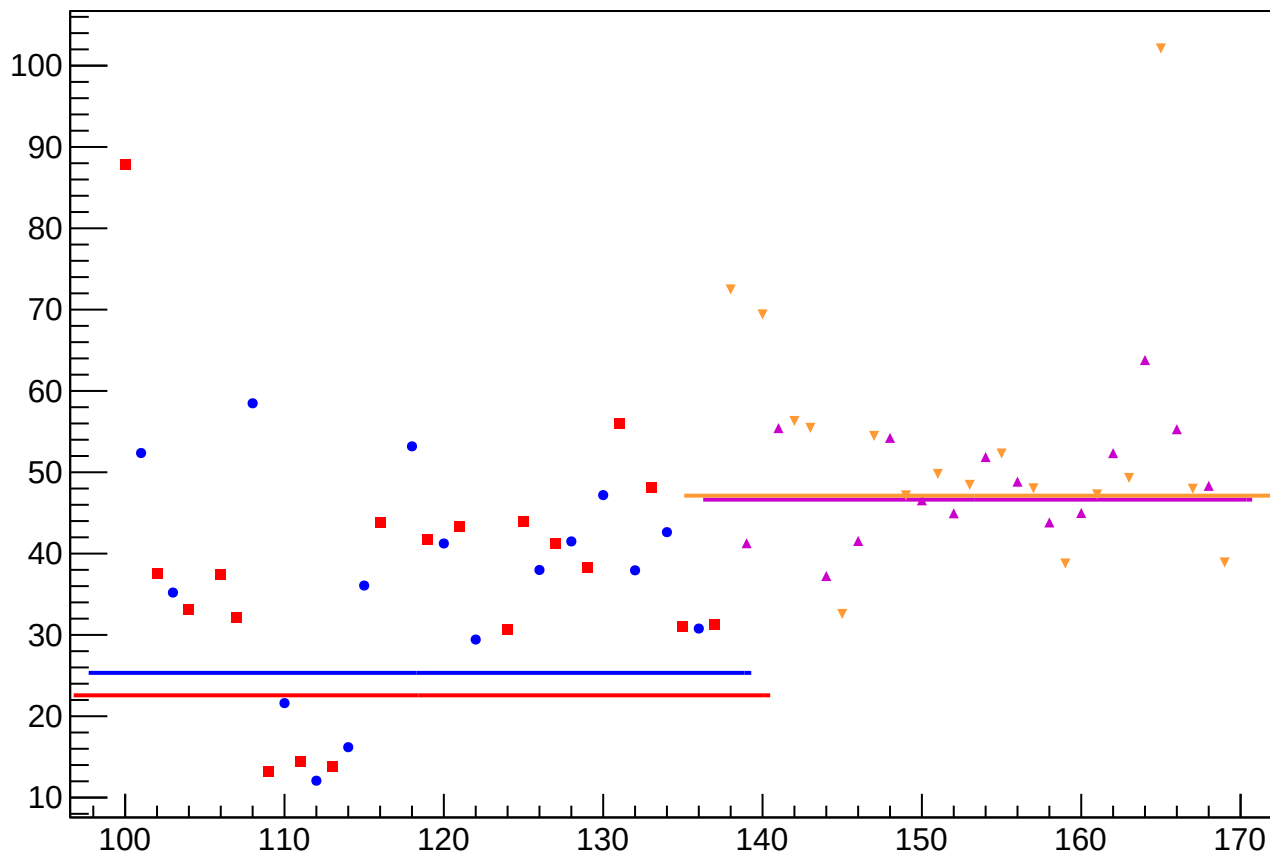
Right: 0.004 $\pm$ 0.007 χ^2 /NDF: 40.3/34

In: 0.018 $\pm$ 0.009 χ^2 /NDF:37.1/30

Out: -0.009 $\pm$ 0.008 χ^2 /NDF:35.5/35

All: 0.003 $\pm$ 0.006 χ^2 /NDF: 77.8/66

asym_sam_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.334+/-0.008 χ^2/NDF : 2925132.2/15

Left Out: 47.126+/-0.009 χ^2/NDF : 1246639.0/16

Right Out: 22.571+/-0.007 χ^2/NDF : 3139937.1/18

Left In: 46.637+/-0.010 χ^2/NDF : 376128.5/14

Left: 46.888+/-0.007 χ^2/NDF : 1624057.1/31

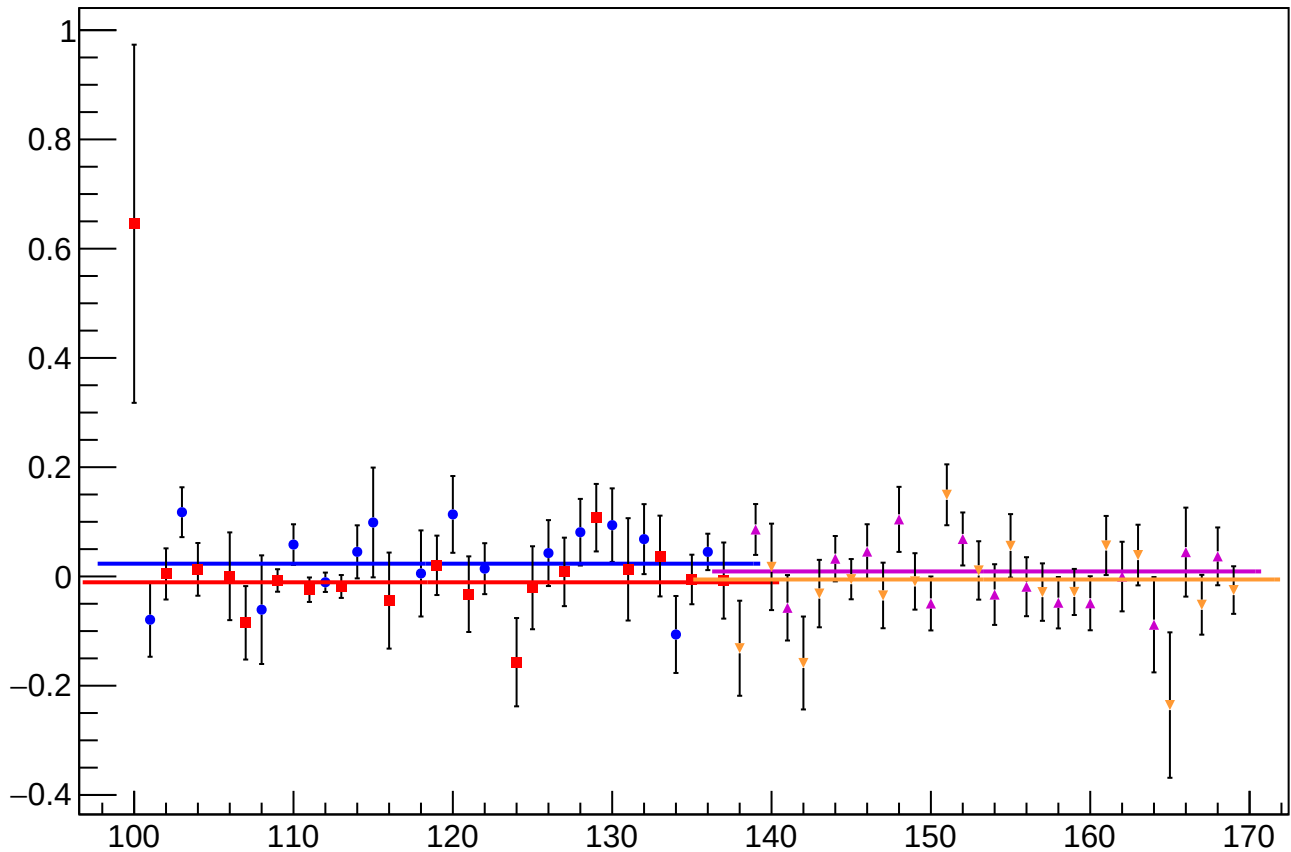
Right: 23.786+/-0.005 χ^2/NDF : 6134886.6/34

In: 33.673+/-0.006 χ^2/NDF : 6201172.6/30

Out: 31.117+/-0.006 χ^2/NDF : 8754579.7/35

All: 32.284+/-0.004 χ^2/NDF : 15050948.0/66

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.023 ± 0.011 $\chi^2/\text{NDF}: 20.7/15$

Left Out: -0.006 ± 0.013 $\chi^2/\text{NDF}: 21.1/16$

Right Out: -0.011 ± 0.010 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.009 ± 0.014 $\chi^2/\text{NDF}: 15.7/14$

Left: 0.002 ± 0.010 $\chi^2/\text{NDF}: 37.4/31$

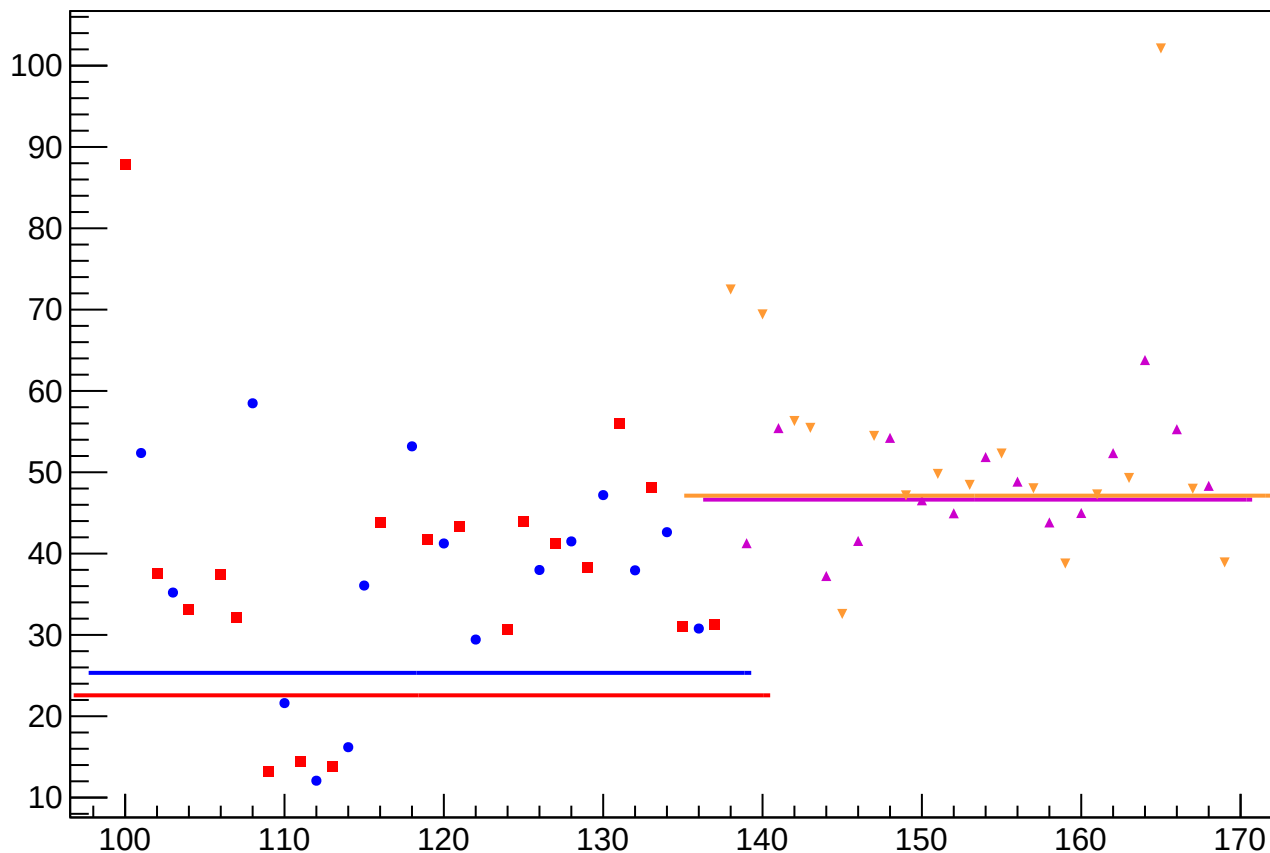
Right: 0.004 ± 0.007 $\chi^2/\text{NDF}: 40.3/34$

In: 0.018 ± 0.009 $\chi^2/\text{NDF}: 37.1/30$

Out: -0.009 ± 0.008 $\chi^2/\text{NDF}: 35.5/35$

All: 0.003 ± 0.006 $\chi^2/\text{NDF}: 77.8/66$

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.334 $\pm$ 0.008 χ^2 /NDF: 2925132.2/15

Left Out: 47.126 $\pm$ 0.009 χ^2 /NDF:1246639.0/16

Right Out: 22.571 $\pm$ 0.007 χ^2 /NDF: 3139937.1/18

Left In: 46.637 $\pm$ 0.010 χ^2 /NDF:376128.5/14

Left: 46.888 $\pm$ 0.007 χ^2 /NDF: 1624057.1/31

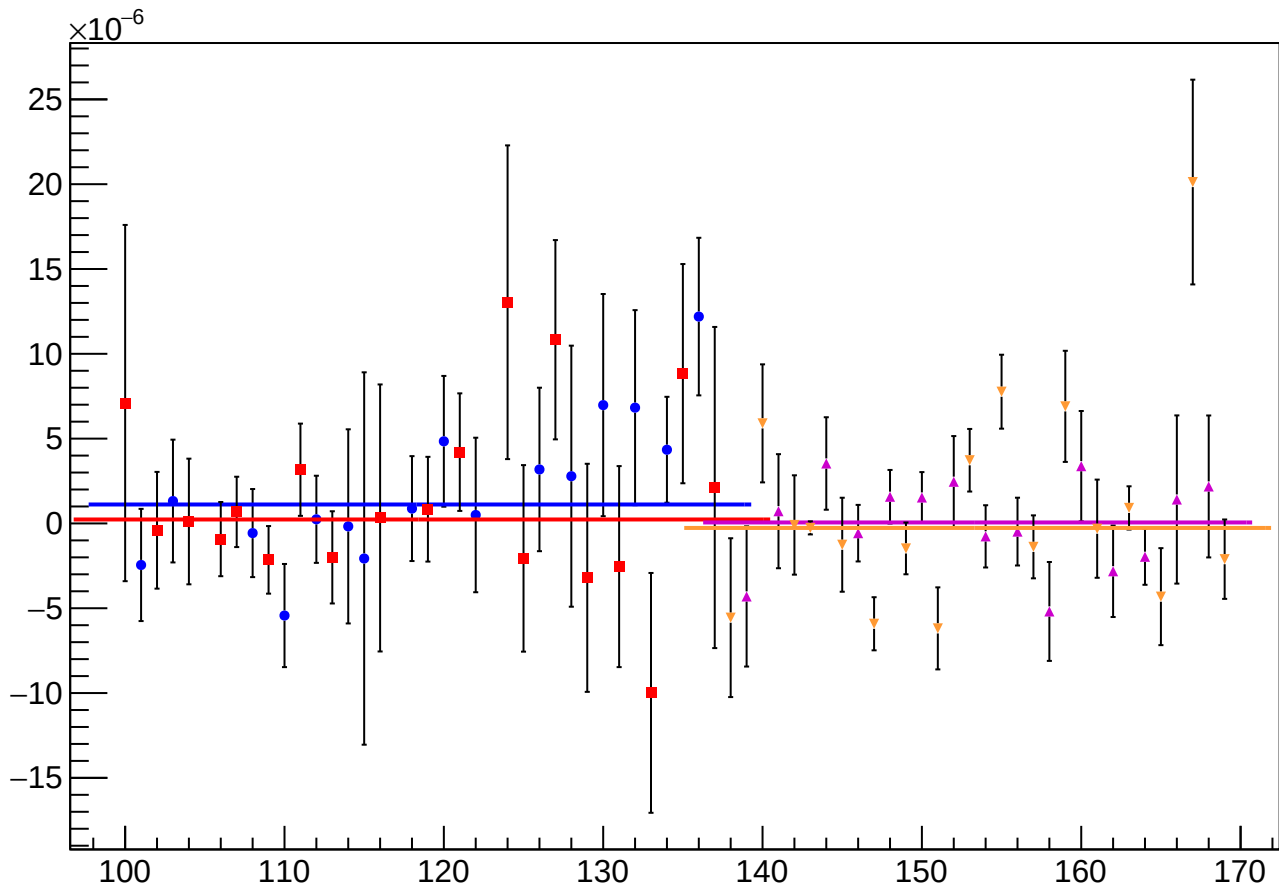
Right: 23.786 $\pm$ 0.005 χ^2 /NDF: 6134886.6/34

In: 33.673 $\pm$ 0.006 χ^2 /NDF:6201172.6/30

Out: 31.117 $\pm$ 0.006 χ^2 /NDF:8754579.7/35

All: 32.284 $\pm$ 0.004 χ^2 /NDF: 15050948.0/66

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.2/15

Left Out: -0.000+/-0.000 χ^2/NDF : 62.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 15.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 13.1/14

Left: -0.000+/-0.000 χ^2/NDF : 75.9/31

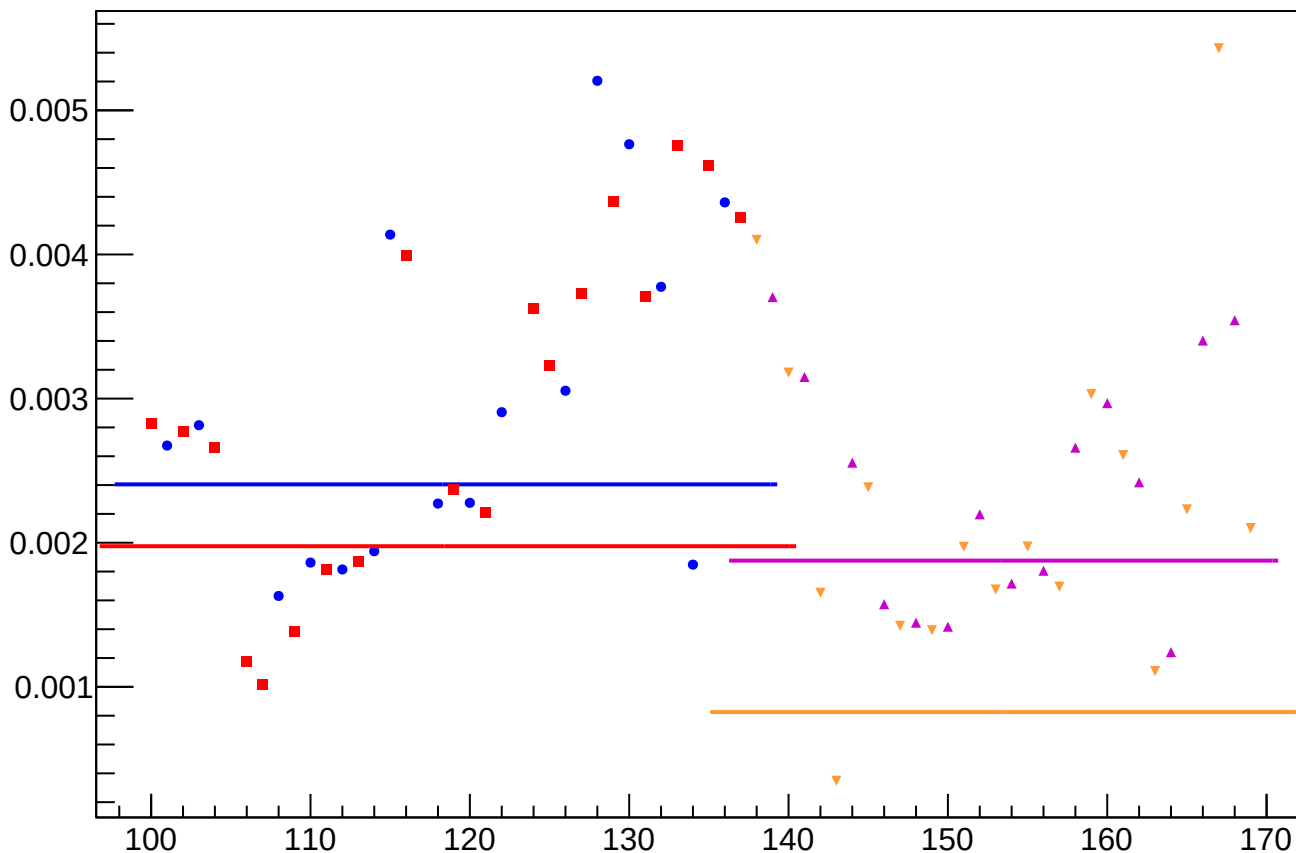
Right: 0.000+/-0.000 χ^2/NDF : 31.8/34

In: 0.000+/-0.000 χ^2/NDF : 30.2/30

Out: -0.000+/-0.000 χ^2/NDF : 78.0/35

All: -0.000+/-0.000 χ^2/NDF : 109.1/66

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1571983.6/15

Left Out: 0.001+/-0.000 χ^2/NDF :12183360.1/16

Right Out: 0.002+/-0.000 χ^2/NDF : 2775363.3/18

Left In: 0.002+/-0.000 χ^2/NDF :2505221.4/14

Left: 0.001+/-0.000 χ^2/NDF : 19773731.3/31

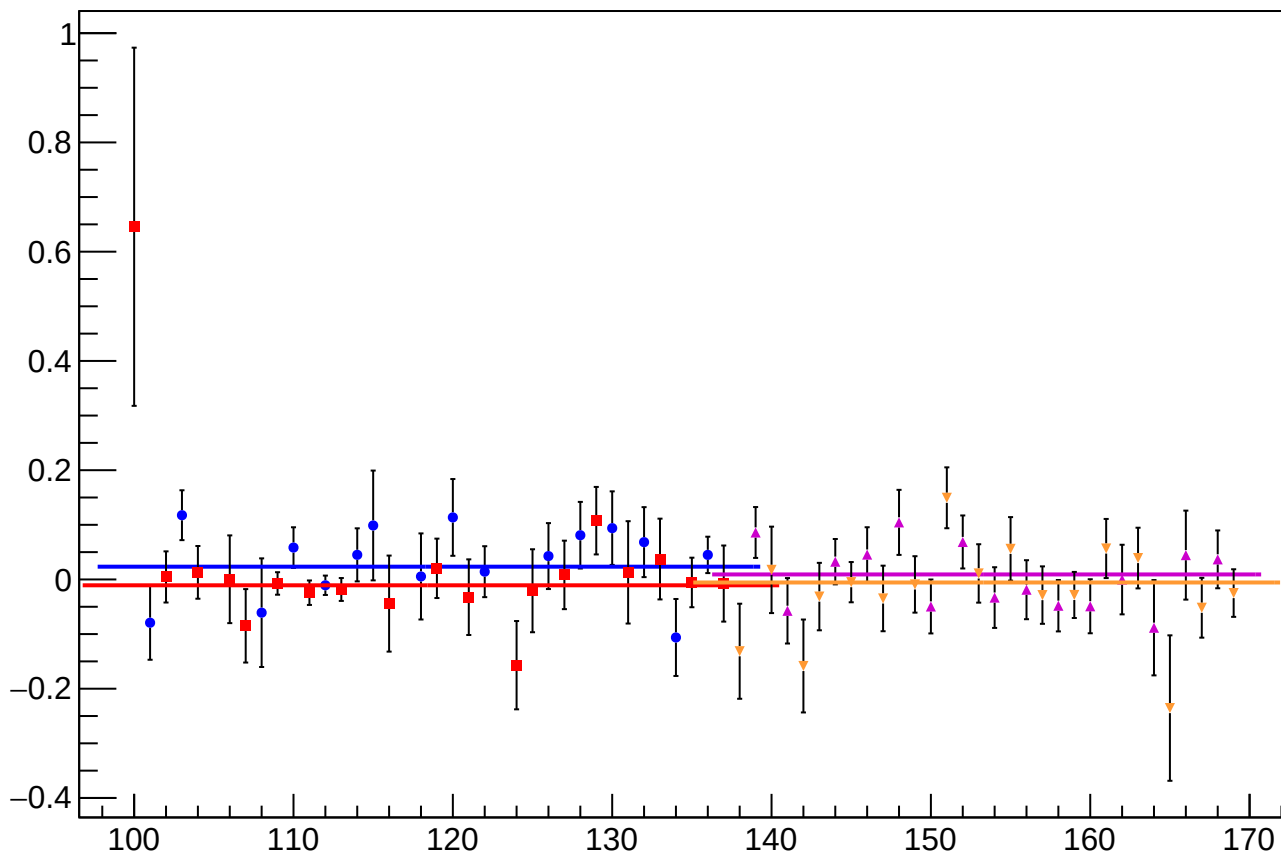
Right: 0.002+/-0.000 χ^2/NDF : 4581712.7/34

In: 0.002+/-0.000 χ^2/NDF :4526263.6/30

Out: 0.001+/-0.000 χ^2/NDF :18443475.1/35

All: 0.001+/-0.000 χ^2/NDF : 29526882.2/66

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.023 $\pm$ 0.011 χ^2 /NDF: 20.7/15

Left Out: -0.006 $\pm$ 0.013 χ^2 /NDF:21.1/16

Right Out: -0.011 $\pm$ 0.010 χ^2 /NDF: 14.2/18

Left In: 0.009 $\pm$ 0.014 χ^2 /NDF:15.7/14

Left: 0.002 $\pm$ 0.010 χ^2 /NDF: 37.4/31

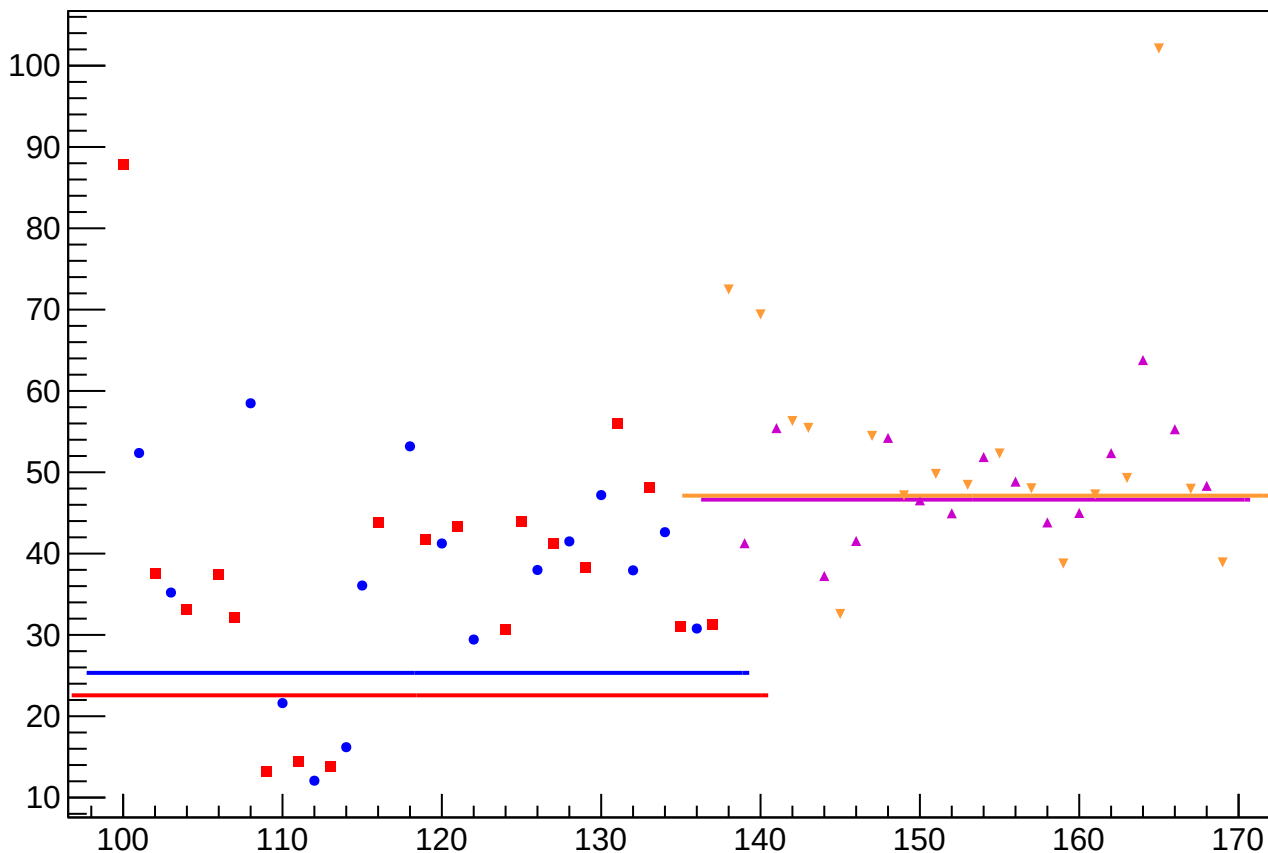
Right: 0.004 $\pm$ 0.007 χ^2 /NDF: 40.3/34

In: 0.018 $\pm$ 0.009 χ^2 /NDF:37.1/30

Out: -0.009 $\pm$ 0.008 χ^2 /NDF:35.5/35

All: 0.003 $\pm$ 0.006 χ^2 /NDF: 77.8/66

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.332 $\pm$ 0.008 χ^2 /NDF: 2925549.0/15

Left Out: 47.126 $\pm$ 0.009 χ^2 /NDF:1246617.1/16

Right Out: 22.571 $\pm$ 0.007 χ^2 /NDF: 3140082.3/18

Left In: 46.637 $\pm$ 0.010 χ^2 /NDF:376112.4/14

Left: 46.888 $\pm$ 0.007 χ^2 /NDF: 1624018.6/31

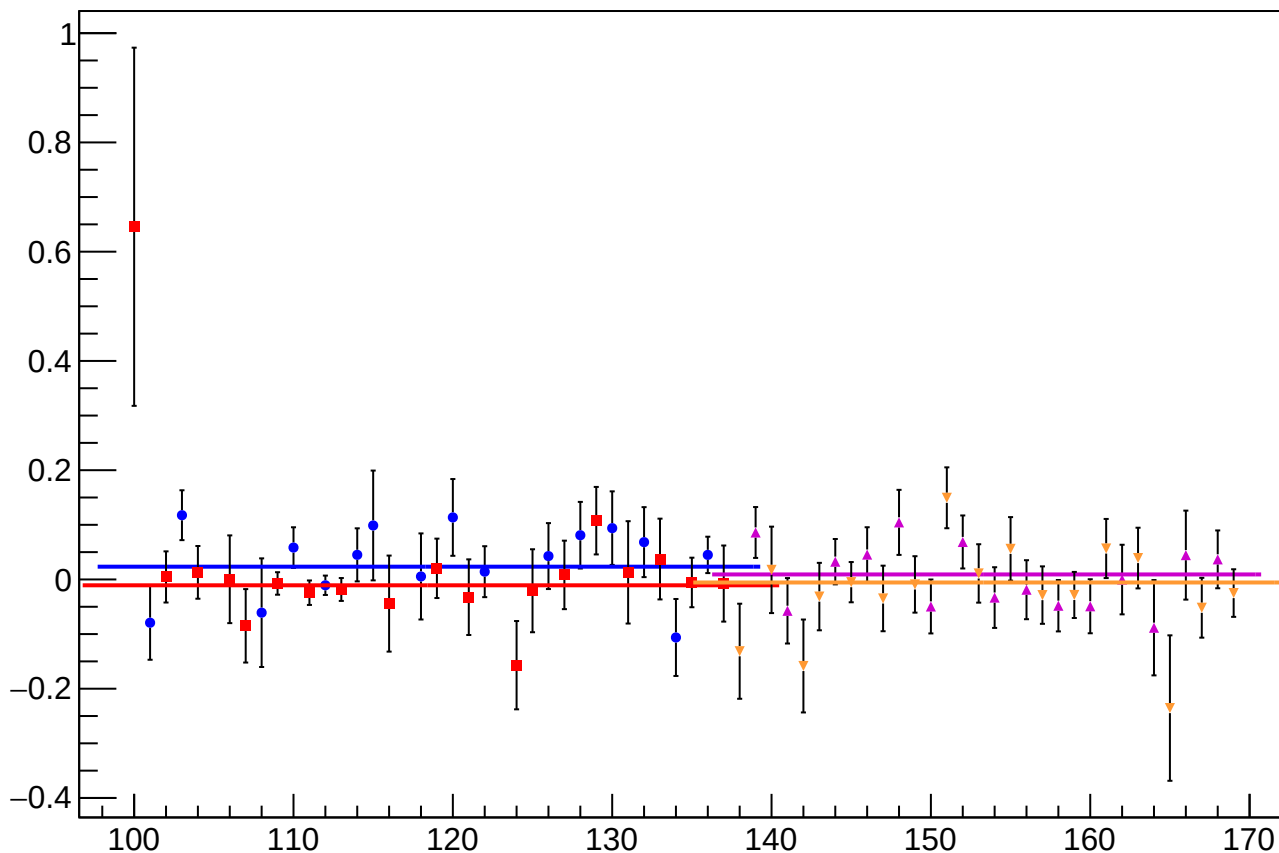
Right: 23.785 $\pm$ 0.005 χ^2 /NDF: 6135400.4/34

In: 33.672 $\pm$ 0.006 χ^2 /NDF:6202089.7/30

Out: 31.117 $\pm$ 0.006 χ^2 /NDF:8754914.6/35

All: 32.283 $\pm$ 0.004 χ^2 /NDF: 15052144.2/66

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.023 ± 0.011 $\chi^2/\text{NDF}: 20.7/15$

Left Out: -0.006 ± 0.013 $\chi^2/\text{NDF}: 21.1/16$

Right Out: -0.011 ± 0.010 $\chi^2/\text{NDF}: 14.2/18$

Left In: 0.009 ± 0.014 $\chi^2/\text{NDF}: 15.7/14$

Left: 0.002 ± 0.010 $\chi^2/\text{NDF}: 37.4/31$

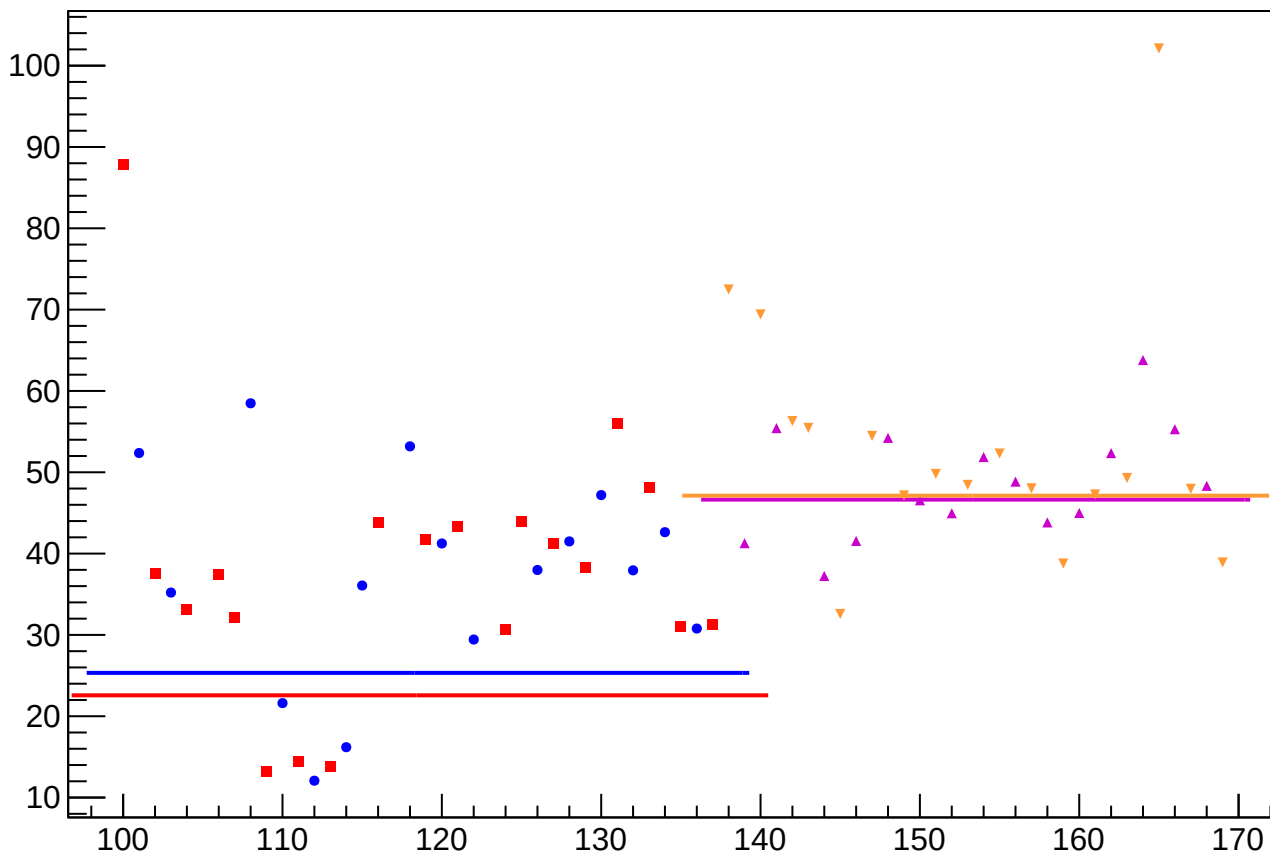
Right: 0.004 ± 0.007 $\chi^2/\text{NDF}: 40.3/34$

In: 0.018 ± 0.009 $\chi^2/\text{NDF}: 37.1/30$

Out: -0.009 ± 0.008 $\chi^2/\text{NDF}: 35.5/35$

All: 0.003 ± 0.006 $\chi^2/\text{NDF}: 77.8/66$

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 25.332 $\pm$ 0.008 χ^2 /NDF: 2925549.0/15

Left Out: 47.126 $\pm$ 0.009 χ^2 /NDF:1246617.1/16

Right Out: 22.571 $\pm$ 0.007 χ^2 /NDF: 3140082.3/18

Left In: 46.637 $\pm$ 0.010 χ^2 /NDF:376112.4/14

Left: 46.888 $\pm$ 0.007 χ^2 /NDF: 1624018.6/31

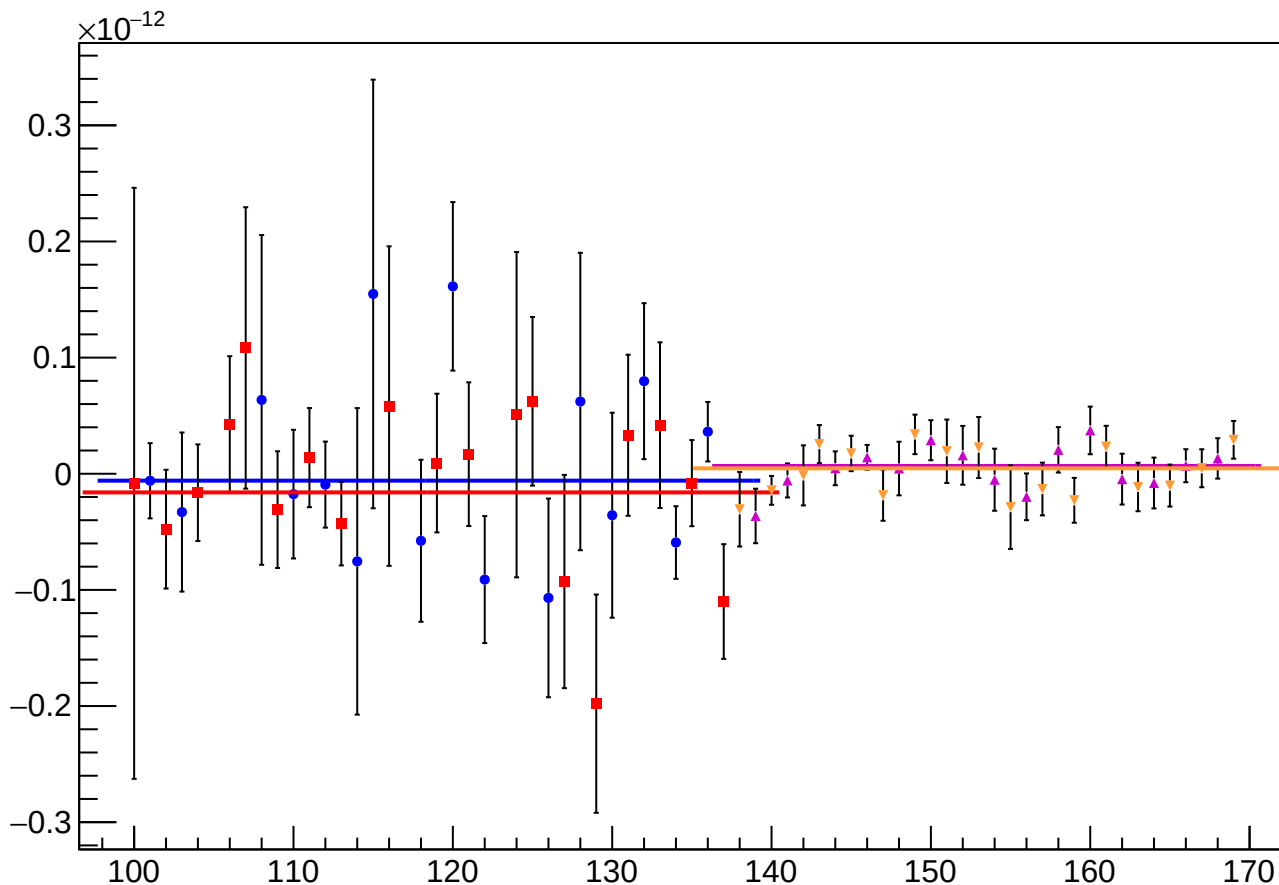
Right: 23.785 $\pm$ 0.005 χ^2 /NDF: 6135400.4/34

In: 33.672 $\pm$ 0.006 χ^2 /NDF:6202089.7/30

Out: 31.117 $\pm$ 0.006 χ^2 /NDF:8754914.6/35

All: 32.283 $\pm$ 0.004 χ^2 /NDF: 15052144.2/66

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 18.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :18.9/16

Right Out: -0.000+/-0.000 χ^2/NDF : 15.0/18

Left In: 0.000+/-0.000 χ^2/NDF :11.9/14

Left: 0.000+/-0.000 χ^2/NDF : 30.9/31

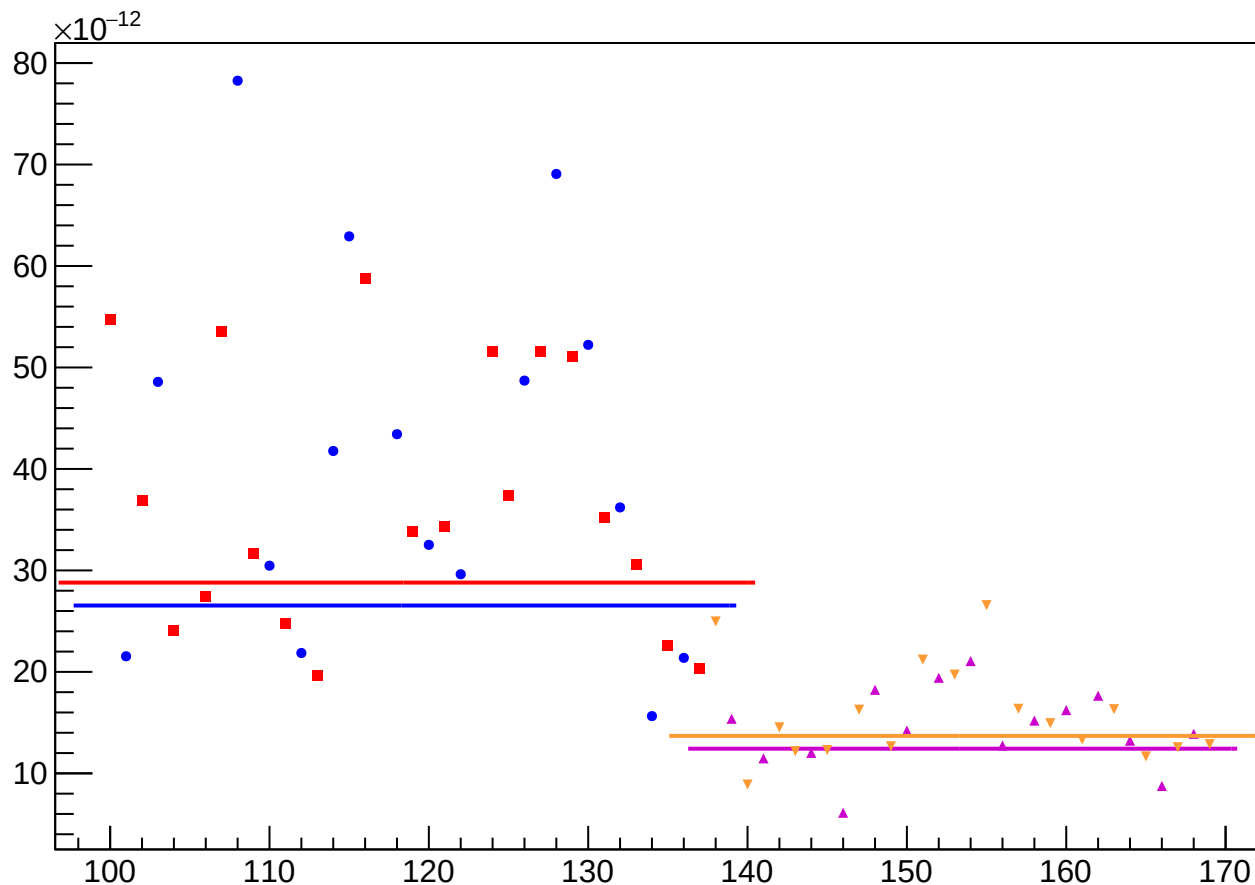
Right: -0.000+/-0.000 χ^2/NDF : 34.1/34

In: 0.000+/-0.000 χ^2/NDF :31.6/30

Out: 0.000+/-0.000 χ^2/NDF :36.0/35

All: 0.000+/-0.000 χ^2/NDF : 67.8/66

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1693643.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :1236862.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 910681.7/18

Left In: 0.000+/-0.000 χ^2/NDF :1620924.8/14

Left: 0.000+/-0.000 χ^2/NDF : 2933214.7/31

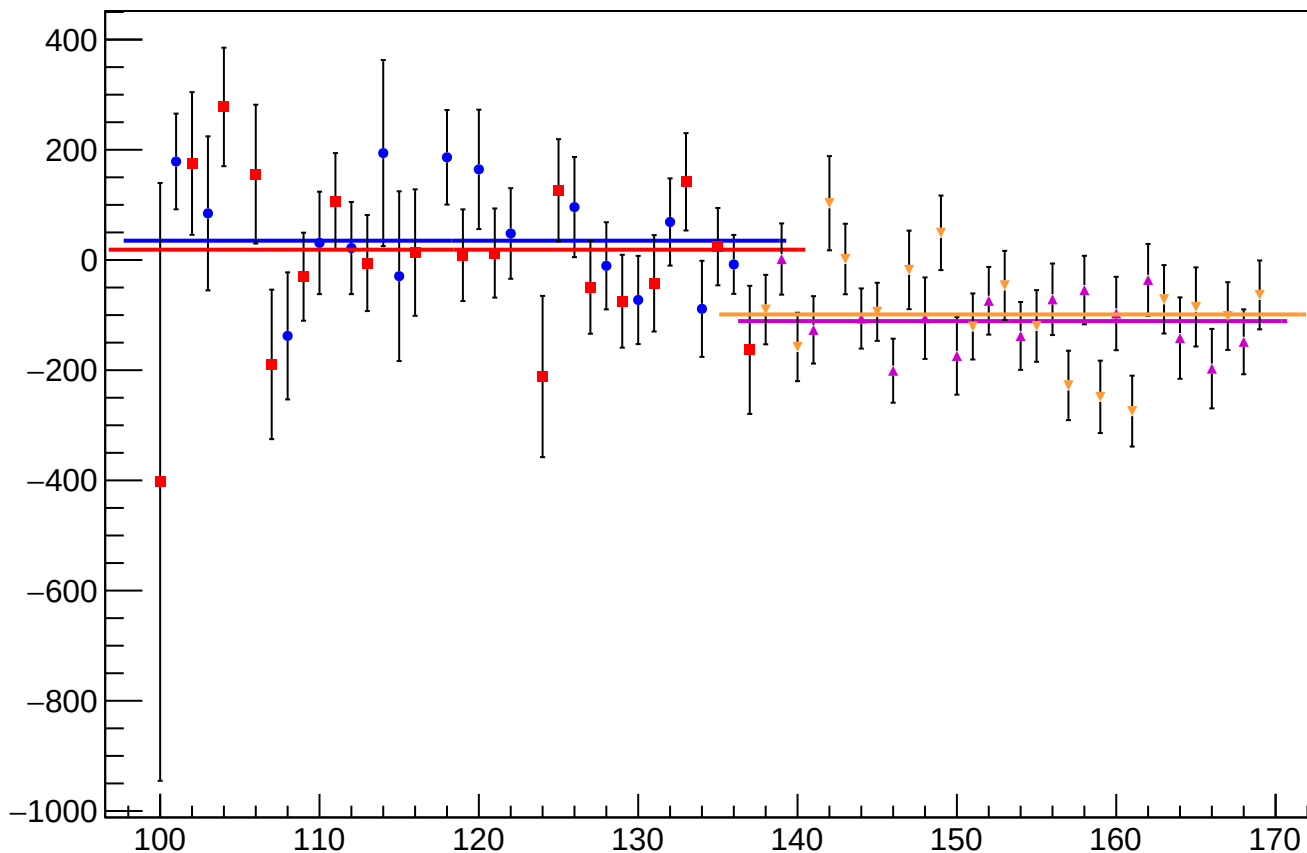
Right: 0.000+/-0.000 χ^2/NDF : 2634482.2/34

In: 0.000+/-0.000 χ^2/NDF :5496163.0/30

Out: 0.000+/-0.000 χ^2/NDF :4451473.3/35

All: 0.000+/-0.000 χ^2/NDF : 10035806.9/66

reg_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 35.018 $\pm$ 22.134 χ^2 /NDF: 16.2/15

Left Out: -98.818 $\pm$ 15.549 χ^2 /NDF:33.4/16

Right Out: 18.690 $\pm$ 22.137 χ^2 /NDF: 23.5/18

Left In: -110.885 $\pm$ 16.501 χ^2 /NDF:11.4/14

Left: -104.493 $\pm$ 11.316 χ^2 /NDF: 45.1/31

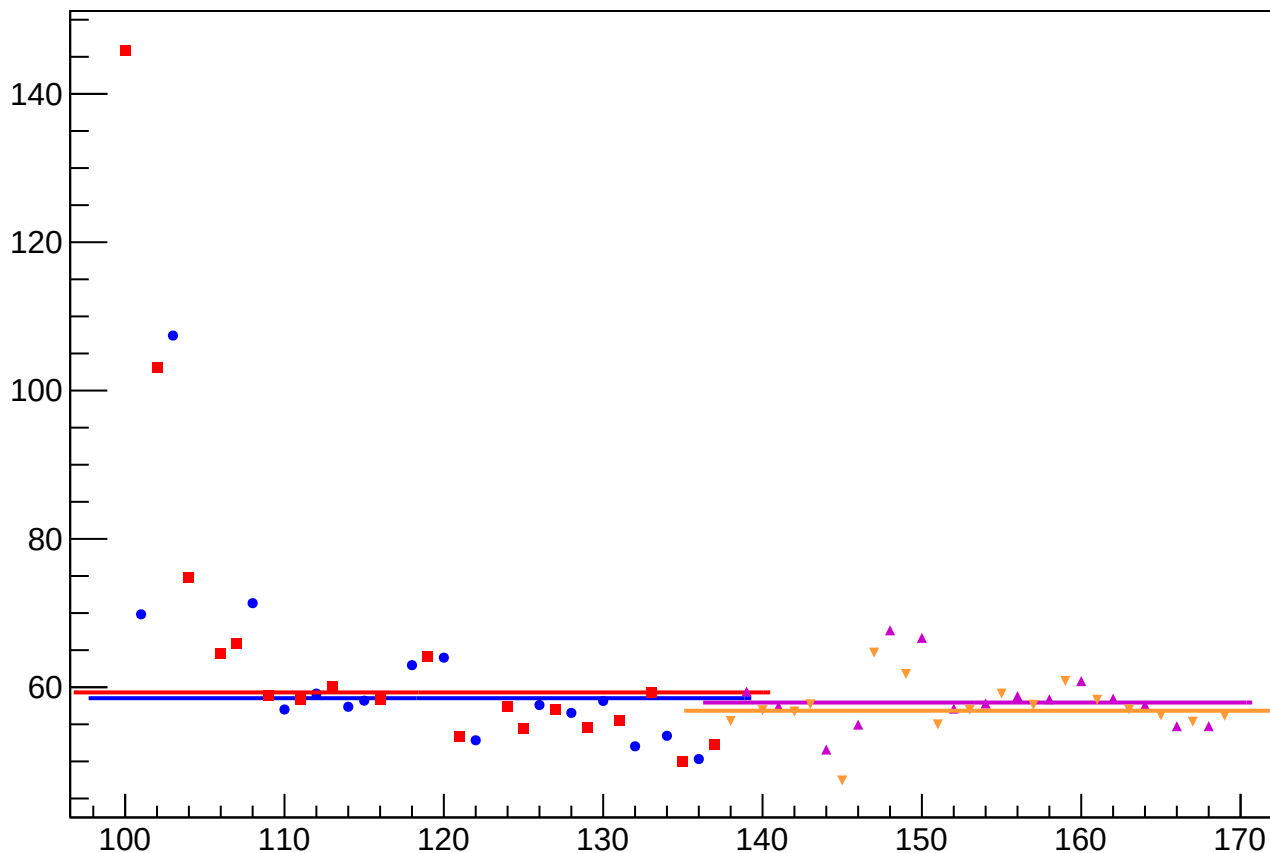
Right: 26.855 $\pm$ 15.652 χ^2 /NDF: 40.0/34

In: -58.766 $\pm$ 13.229 χ^2 /NDF:55.6/30

Out: -59.996 $\pm$ 12.724 χ^2 /NDF:75.7/35

All: -59.405 $\pm$ 9.171 χ^2 /NDF: 131.3/66

reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 58.522+/-0.016 χ^2/NDF : 392742.4/15

Left Out: 56.835+/-0.011 χ^2/NDF : 114683.6/16

Right Out: 59.301+/-0.016 χ^2/NDF : 406611.5/18

Left In: 57.938+/-0.012 χ^2/NDF : 113283.4/14

Left: 57.354+/-0.008 χ^2/NDF : 232696.6/31

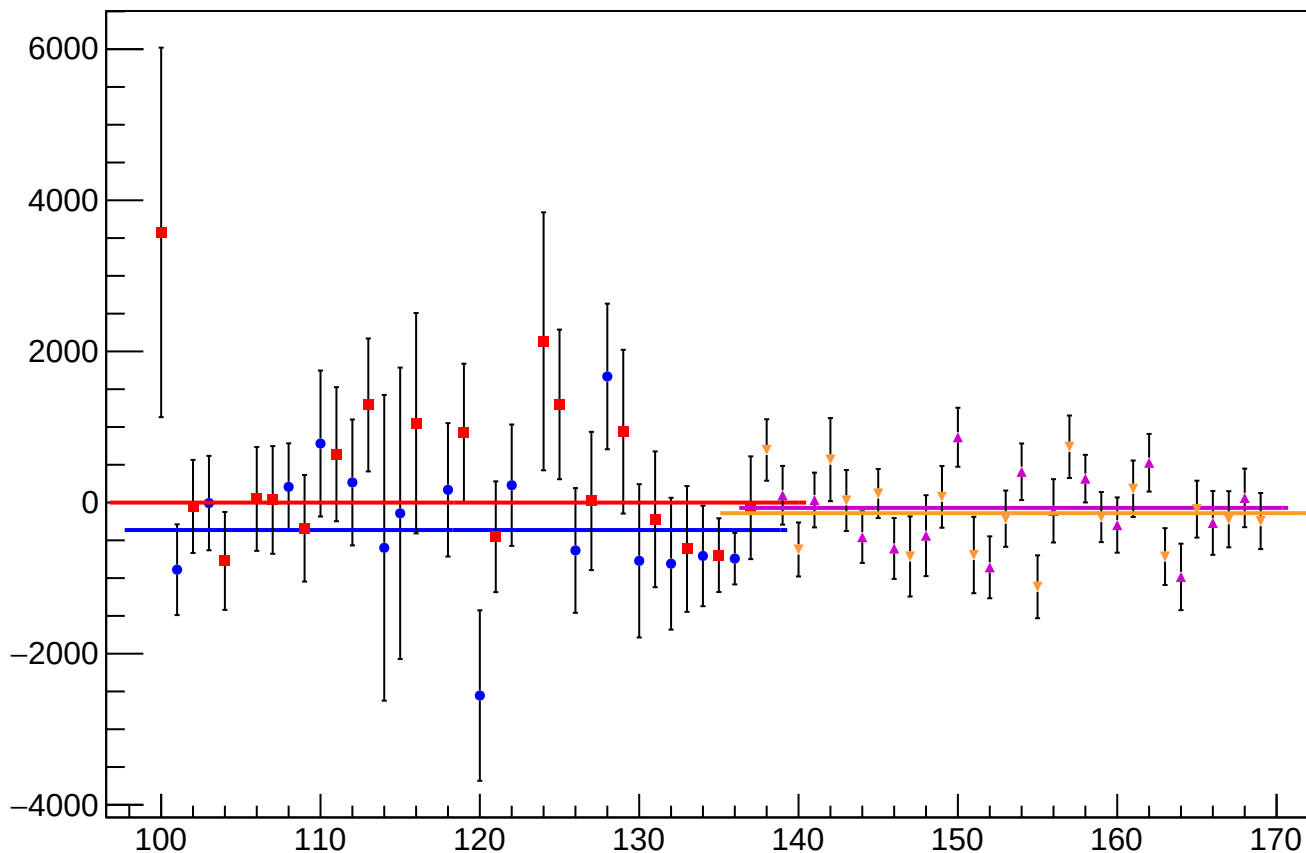
Right: 58.911+/-0.011 χ^2/NDF : 800594.3/34

In: 58.146+/-0.009 χ^2/NDF : 506920.5/30

Out: 57.650+/-0.009 χ^2/NDF : 537915.6/35

All: 57.888+/-0.006 χ^2/NDF : 1046298.9/66

asym_sam_13_57_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -364.076+/-180.601 χ^2/NDF : 15.2/15

Left Out: -140.593+/-95.332 χ^2/NDF : 24.4/16

Right Out: -0.570+/-183.085 χ^2/NDF : 15.1/18

Left In: -70.909+/-100.151 χ^2/NDF : 23.9/14

Left: -107.468+/-69.051 χ^2/NDF : 48.6/31

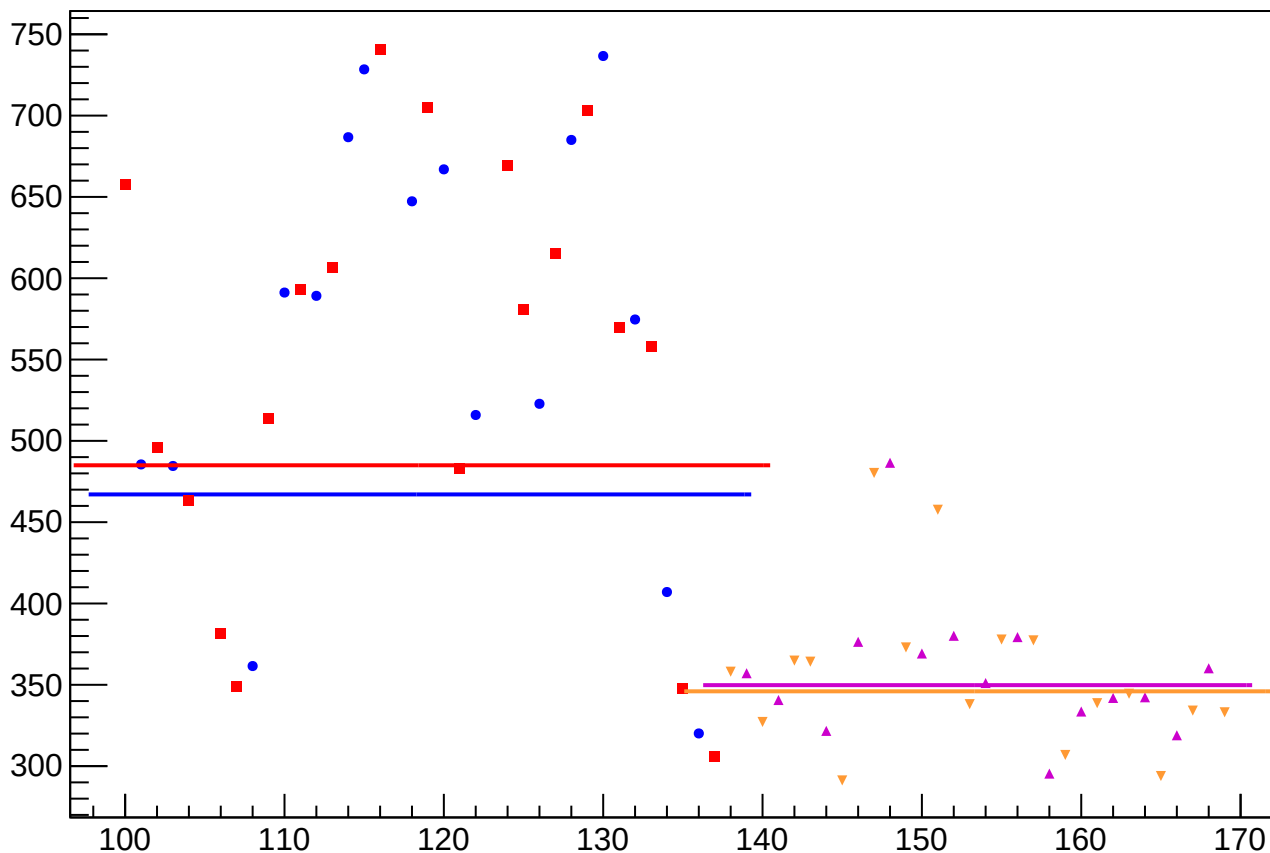
Right: -184.806+/-128.573 χ^2/NDF : 32.3/34

In: -139.860+/-87.585 χ^2/NDF : 41.1/30

Out: -110.727+/-84.556 χ^2/NDF : 40.0/35

All: -124.781+/-60.833 χ^2/NDF : 81.2/66

asym_sam_13_57_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 467.068 $\pm$ 0.128 χ^2 /NDF: 1030279.0/15

Left Out: 345.994 $\pm$ 0.067 χ^2 /NDF: 400898.9/16

Right Out: 484.982 $\pm$ 0.129 χ^2 /NDF: 874102.2/18

Left In: 349.792 $\pm$ 0.071 χ^2 /NDF: 258018.8/14

Left: 347.799 $\pm$ 0.049 χ^2 /NDF: 660426.1/31

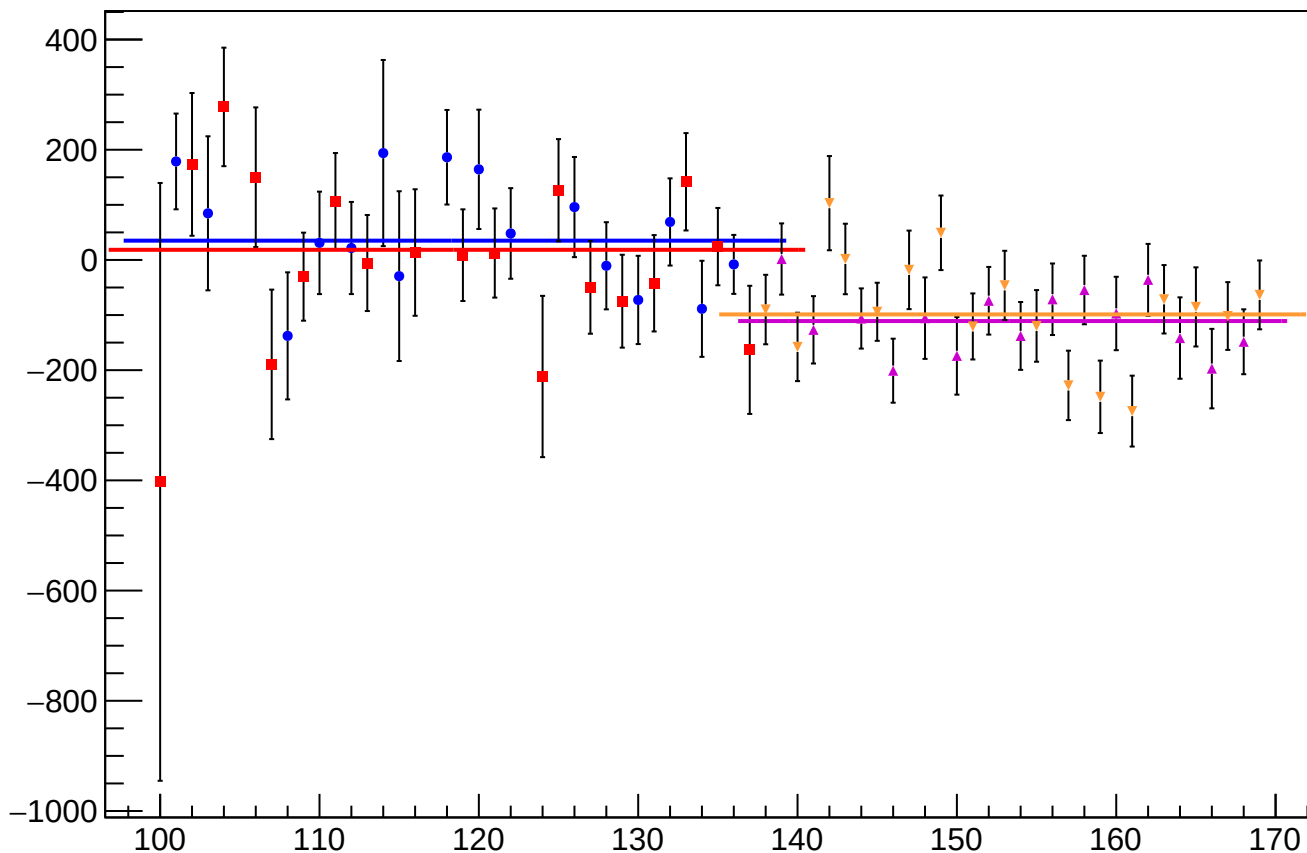
Right: 475.902 $\pm$ 0.091 χ^2 /NDF: 1914085.4/34

In: 377.374 $\pm$ 0.062 χ^2 /NDF: 1933304.9/30

Out: 375.639 $\pm$ 0.060 χ^2 /NDF: 2181749.6/35

All: 376.476 $\pm$ 0.043 χ^2 /NDF: 4115460.7/66

cor_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 35.017 $\pm$ 22.134 χ^2 /NDF: 16.2/15

Left Out: -98.816 $\pm$ 15.549 χ^2 /NDF:33.4/16

Right Out: 18.417 $\pm$ 22.141 χ^2 /NDF: 23.4/18

Left In: -110.886 $\pm$ 16.501 χ^2 /NDF:11.4/14

Left: -104.493 $\pm$ 11.316 χ^2 /NDF: 45.1/31

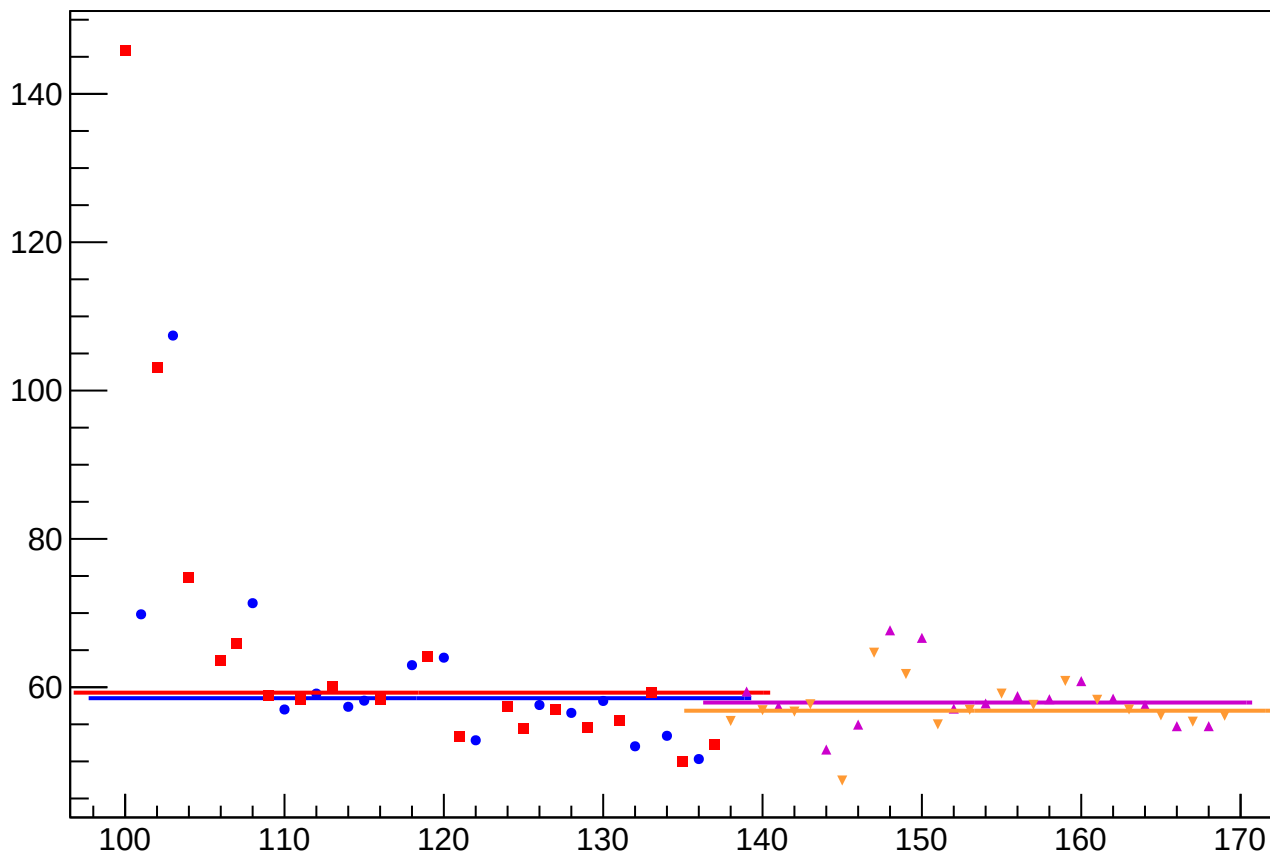
Right: 26.719 $\pm$ 15.654 χ^2 /NDF: 39.8/34

In: -58.767 $\pm$ 13.229 χ^2 /NDF:55.6/30

Out: -60.095 $\pm$ 12.725 χ^2 /NDF:75.5/35

All: -59.457 $\pm$ 9.171 χ^2 /NDF: 131.1/66

cor_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 58.522 ± 0.016 χ^2/NDF : 392744.5/15

Left Out: 56.835 ± 0.011 χ^2/NDF : 114683.6/16

Right Out: 59.269 ± 0.016 χ^2/NDF : 405616.3/18

Left In: 57.938 ± 0.012 χ^2/NDF : 113283.4/14

Left: 57.354 ± 0.008 χ^2/NDF : 232696.6/31

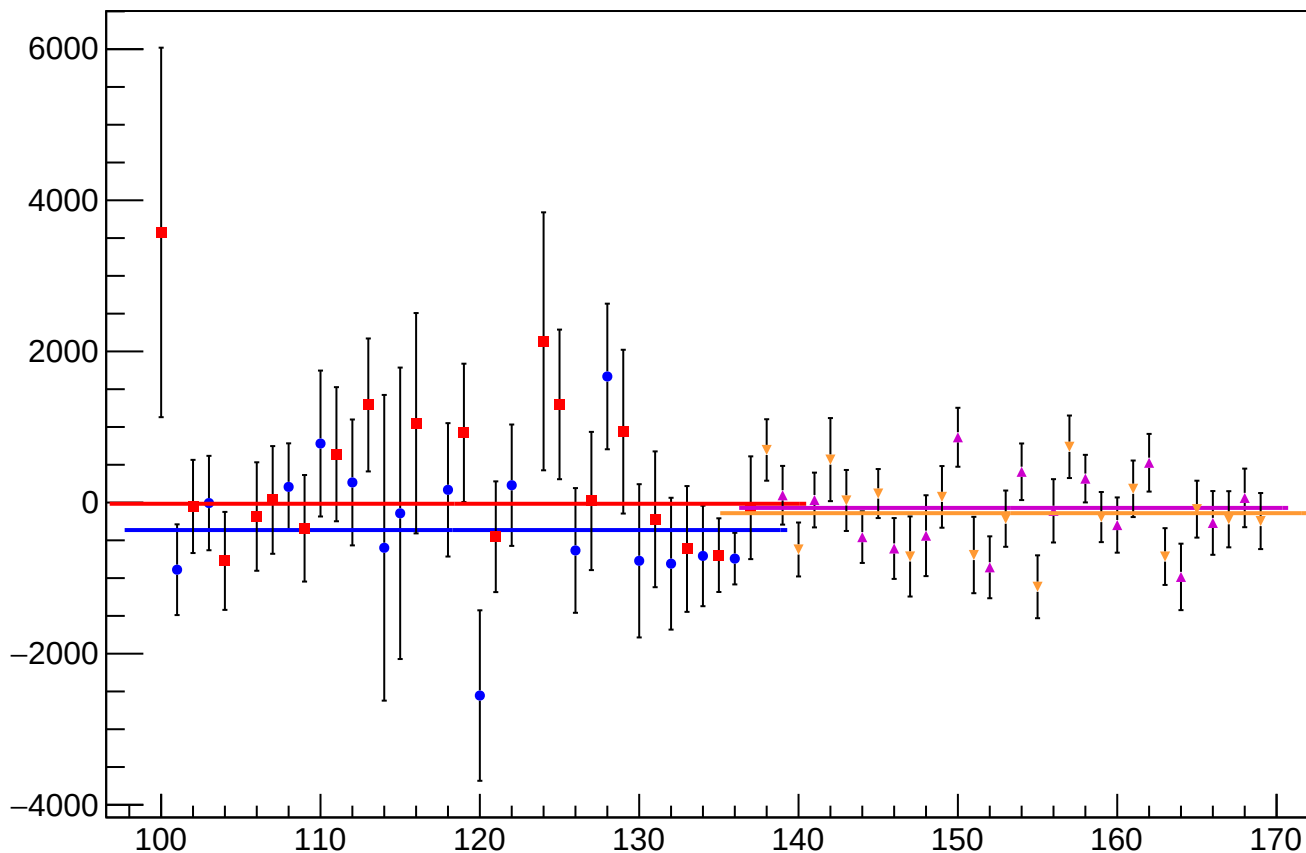
Right: 58.895 ± 0.011 χ^2/NDF : 799501.8/34

In: 58.146 ± 0.009 χ^2/NDF : 506922.6/30

Out: 57.639 ± 0.009 χ^2/NDF : 536490.1/35

All: 57.883 ± 0.006 χ^2/NDF : 1044939.3/66

asym_sam_13_57_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -364.040 $\pm$ 180.602 χ^2 /NDF: 15.2/15

Left Out: -140.593 $\pm$ 95.332 χ^2 /NDF:24.4/16

Right Out: -16.087 $\pm$ 183.650 χ^2 /NDF: 15.1/18

Left In: -70.909 $\pm$ 100.151 χ^2 /NDF:23.9/14

Left: -107.468 $\pm$ 69.051 χ^2 /NDF: 48.6/31

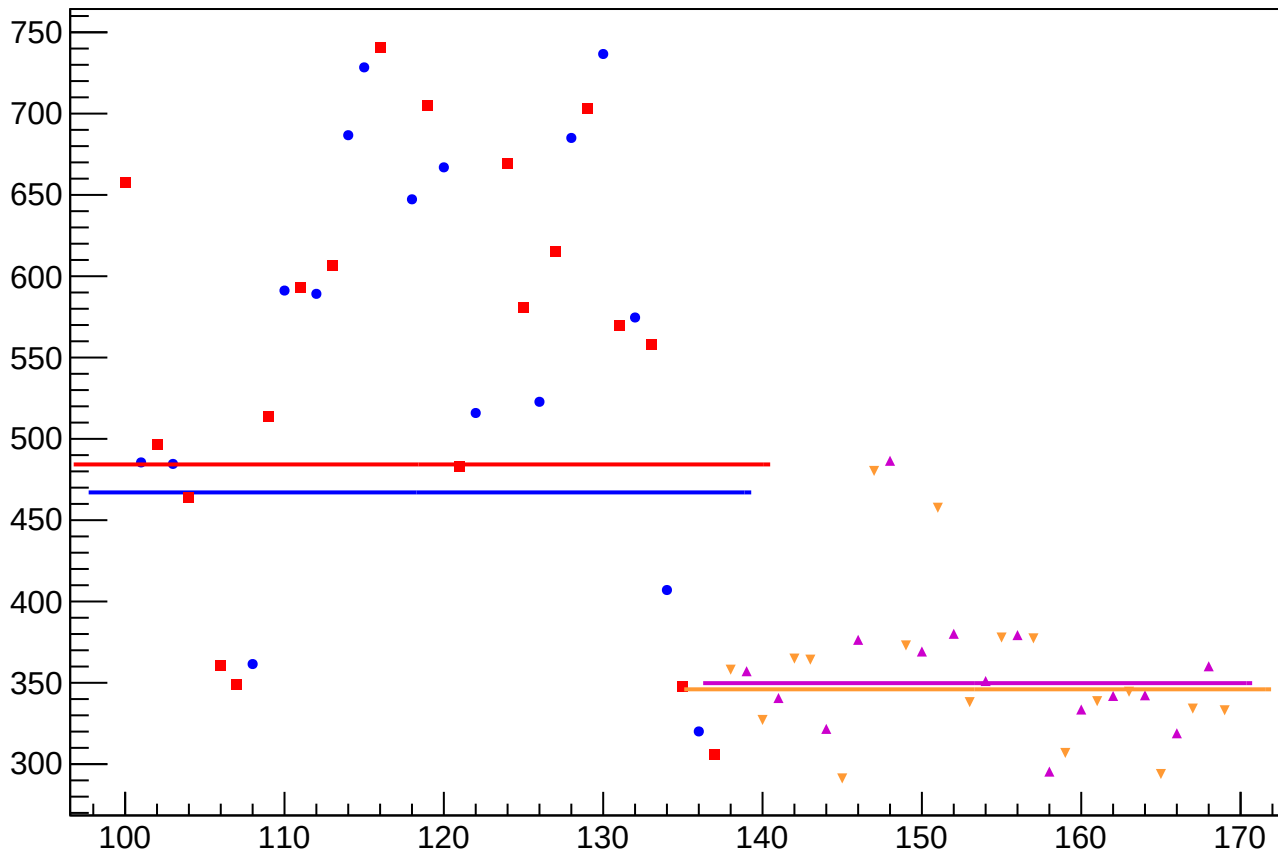
Right: -192.975 $\pm$ 128.769 χ^2 /NDF: 32.2/34

In: -139.851 $\pm$ 87.586 χ^2 /NDF:41.1/30

Out: -114.165 $\pm$ 84.611 χ^2 /NDF:39.9/35

All: -126.564 $\pm$ 60.853 χ^2 /NDF: 81.1/66

asym_sam_13_57_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 467.071 $\pm$ 0.128 χ^2 /NDF: 1030281.3/15

Left Out: 345.994 $\pm$ 0.067 χ^2 /NDF: 400898.6/16

Right Out: 484.274 $\pm$ 0.130 χ^2 /NDF: 888797.2/18

Left In: 349.792 $\pm$ 0.071 χ^2 /NDF: 258019.1/14

Left: 347.799 $\pm$ 0.049 χ^2 /NDF: 660426.3/31

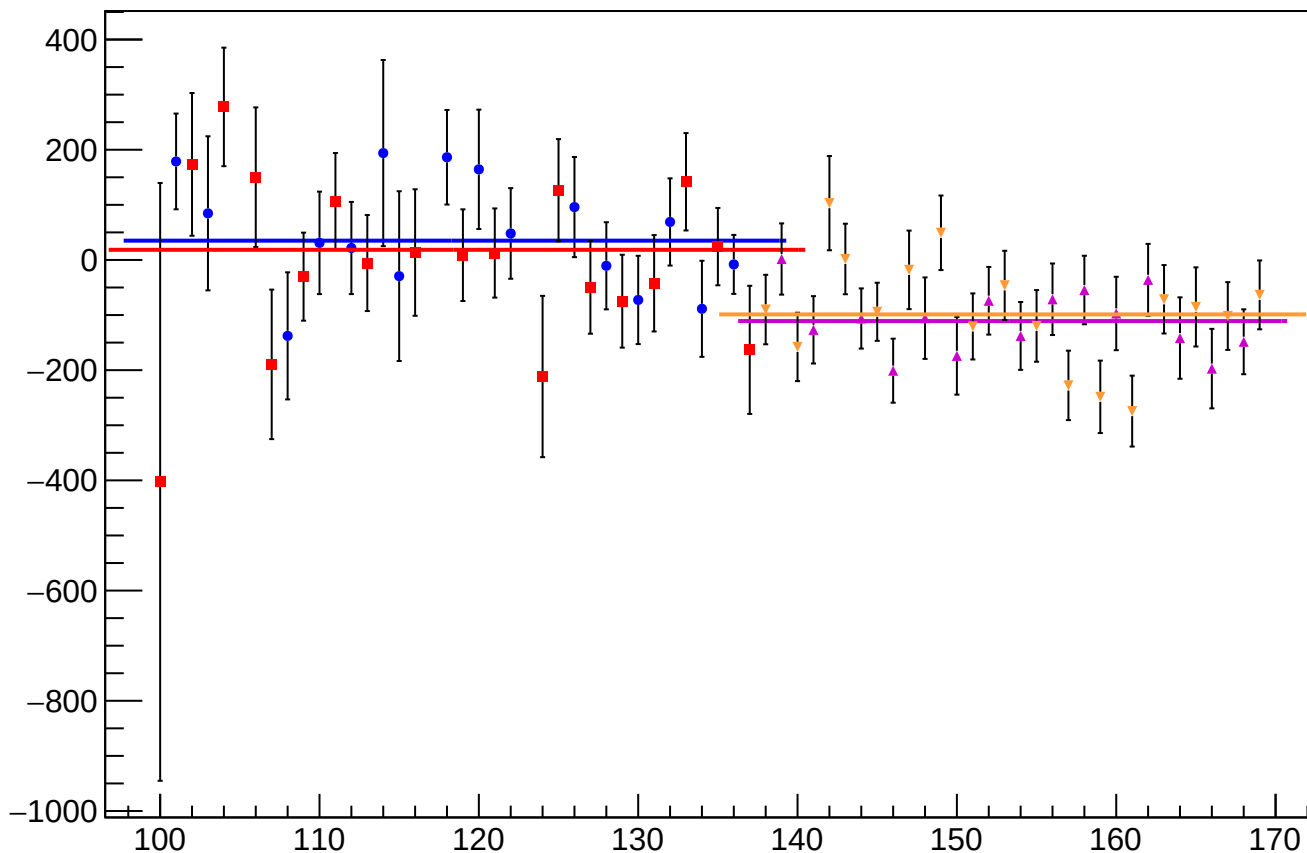
Right: 475.528 $\pm$ 0.091 χ^2 /NDF: 1928000.1/34

In: 377.375 $\pm$ 0.062 χ^2 /NDF: 1933328.4/30

Out: 375.346 $\pm$ 0.060 χ^2 /NDF: 2182884.2/35

All: 376.325 $\pm$ 0.043 χ^2 /NDF: 4116767.8/66

eigen_cor_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 35.017 $\pm$ 22.134 χ^2 /NDF: 16.2/15

Left Out: -98.816 $\pm$ 15.549 χ^2 /NDF:33.4/16

Right Out: 18.417 $\pm$ 22.141 χ^2 /NDF: 23.4/18

Left In: -110.886 $\pm$ 16.501 χ^2 /NDF:11.4/14

Left: -104.493 $\pm$ 11.316 χ^2 /NDF: 45.1/31

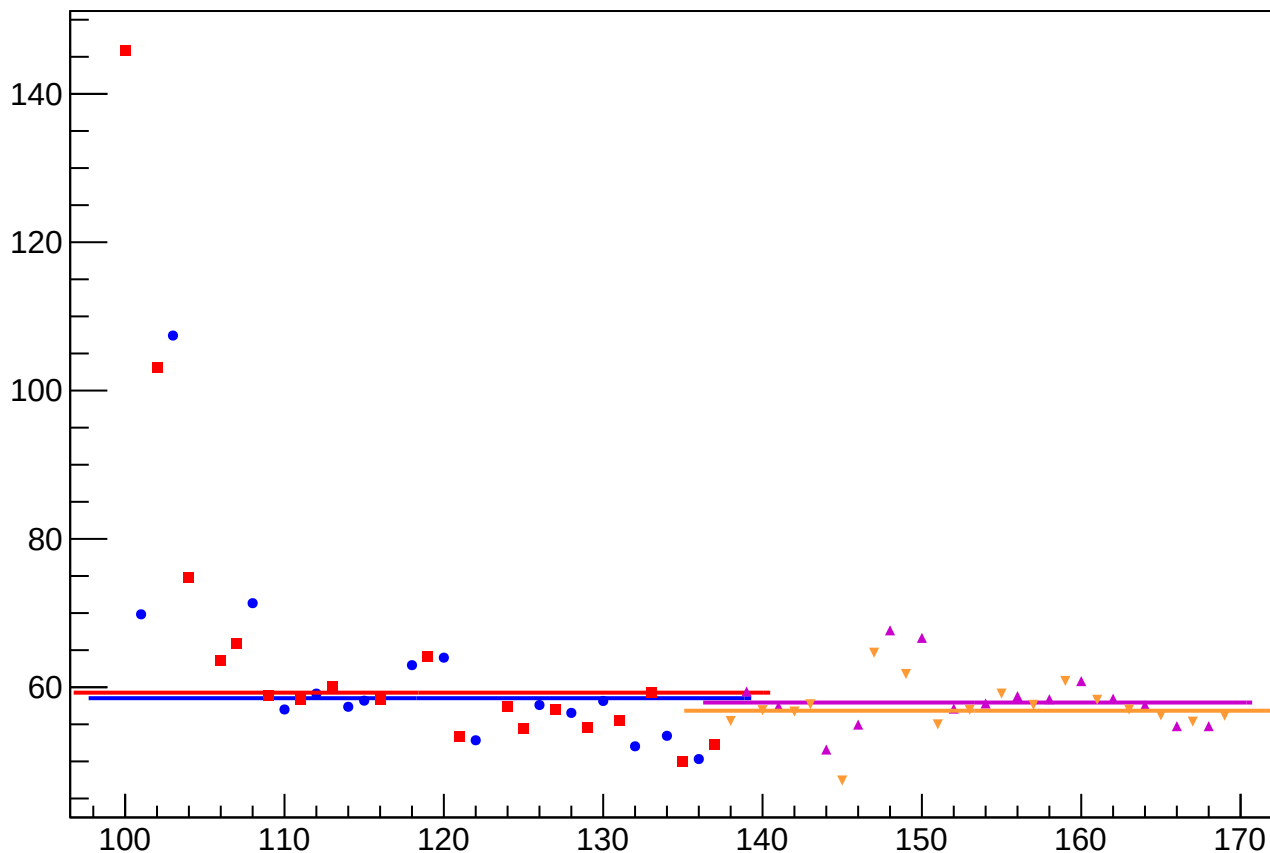
Right: 26.719 $\pm$ 15.654 χ^2 /NDF: 39.8/34

In: -58.767 $\pm$ 13.229 χ^2 /NDF:55.6/30

Out: -60.095 $\pm$ 12.725 χ^2 /NDF:75.5/35

All: -59.457 $\pm$ 9.171 χ^2 /NDF: 131.1/66

eigen_cor_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 58.522 $\pm$ 0.016 χ^2 /NDF: 392744.5/15

Left Out: 56.835 $\pm$ 0.011 χ^2 /NDF: 114683.6/16

Right Out: 59.269 $\pm$ 0.016 χ^2 /NDF: 405616.3/18

Left In: 57.938 $\pm$ 0.012 χ^2 /NDF: 113283.4/14

Left: 57.354 $\pm$ 0.008 χ^2 /NDF: 232696.6/31

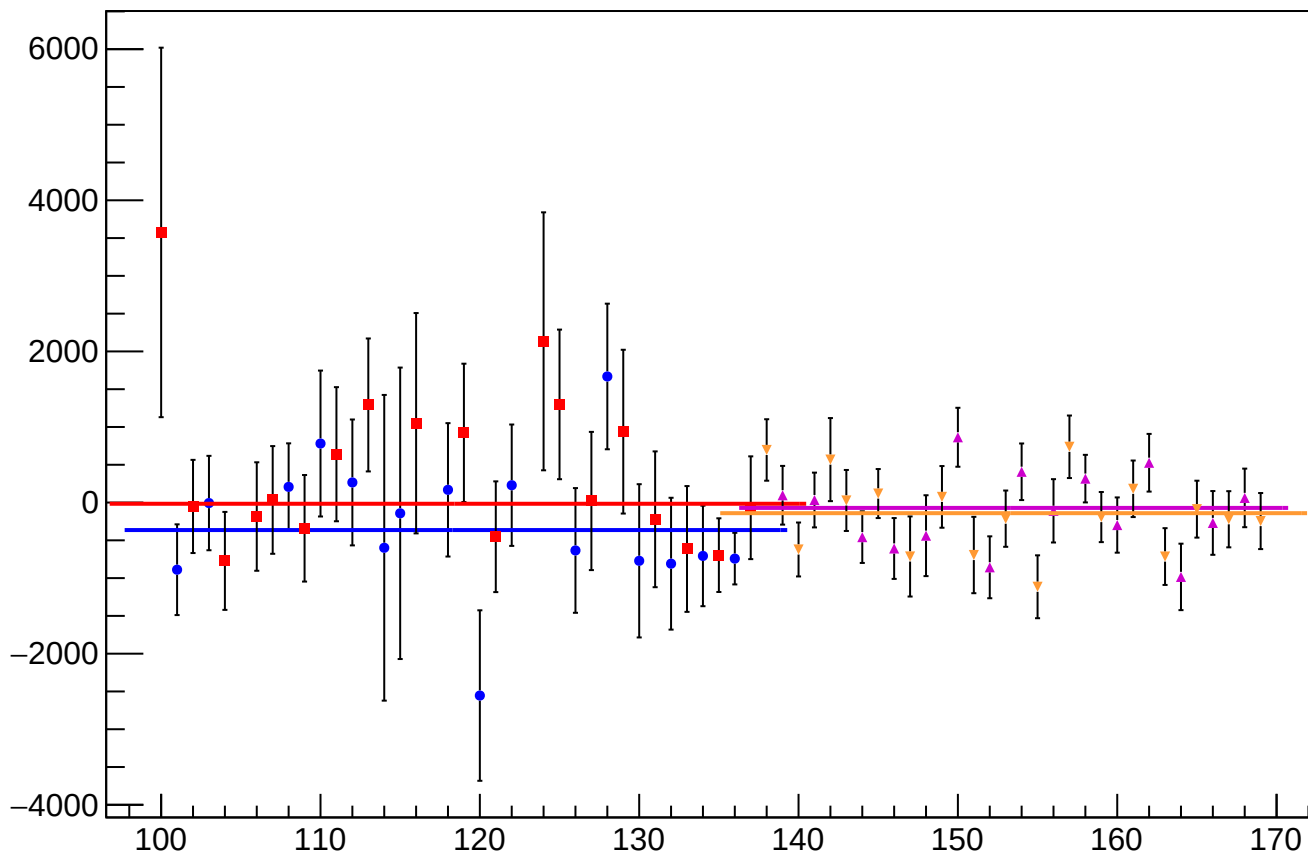
Right: 58.895 $\pm$ 0.011 χ^2 /NDF: 799501.8/34

In: 58.146 $\pm$ 0.009 χ^2 /NDF: 506922.6/30

Out: 57.639 $\pm$ 0.009 χ^2 /NDF: 536490.1/35

All: 57.883 $\pm$ 0.006 χ^2 /NDF: 1044939.3/66

asym_sam_13_57_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -364.040 $\pm$ 180.602 χ^2 /NDF: 15.2/15

Left Out: -140.593 $\pm$ 95.332 χ^2 /NDF:24.4/16

Right Out: -16.087 $\pm$ 183.650 χ^2 /NDF: 15.1/18

Left In: -70.909 $\pm$ 100.151 χ^2 /NDF:23.9/14

Left: -107.468 $\pm$ 69.051 χ^2 /NDF: 48.6/31

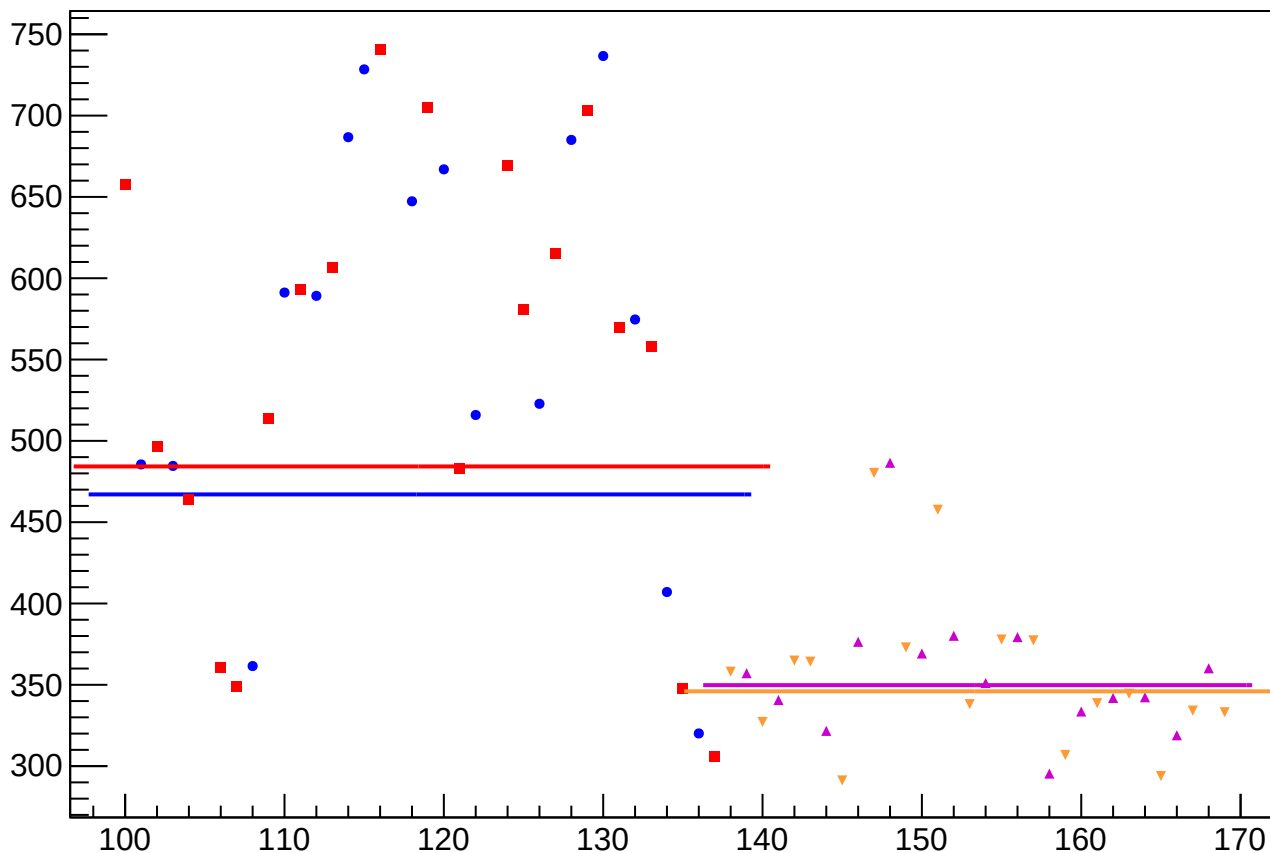
Right: -192.975 $\pm$ 128.769 χ^2 /NDF: 32.2/34

In: -139.851 $\pm$ 87.586 χ^2 /NDF:41.1/30

Out: -114.165 $\pm$ 84.611 χ^2 /NDF:39.9/35

All: -126.564 $\pm$ 60.853 χ^2 /NDF: 81.1/66

asym_sam_13_57_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 467.071 $\pm$ 0.128 χ^2 /NDF: 1030281.3/15

Left Out: 345.994 $\pm$ 0.067 χ^2 /NDF: 400898.6/16

Right Out: 484.274 $\pm$ 0.130 χ^2 /NDF: 888797.2/18

Left In: 349.792 $\pm$ 0.071 χ^2 /NDF: 258019.1/14

Left: 347.799 $\pm$ 0.049 χ^2 /NDF: 660426.3/31

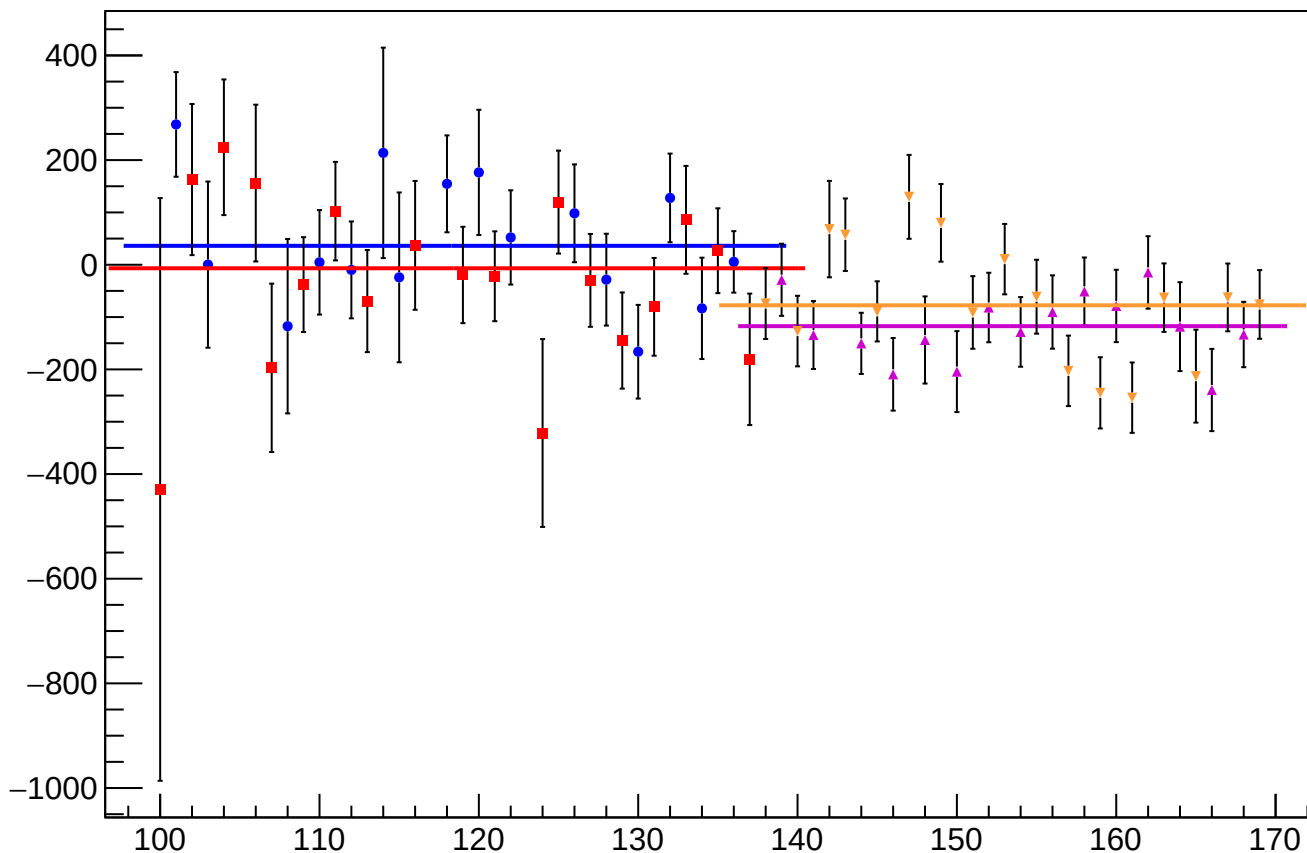
Right: 475.528 $\pm$ 0.091 χ^2 /NDF: 1928000.1/34

In: 377.375 $\pm$ 0.062 χ^2 /NDF: 1933328.4/30

Out: 375.346 $\pm$ 0.060 χ^2 /NDF: 2182884.2/35

All: 376.325 $\pm$ 0.043 χ^2 /NDF: 4116767.8/66

dit_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 36.157 $\pm$ 24.471 χ^2/NDF : 19.6/15

Left Out: -77.548 $\pm$ 16.850 χ^2/NDF :38.7/16

Right Out: -6.734 $\pm$ 24.565 χ^2/NDF : 20.3/18

Left In: -117.378 $\pm$ 17.880 χ^2/NDF :11.7/14

Left: -96.283 $\pm$ 12.263 χ^2/NDF : 53.0/31

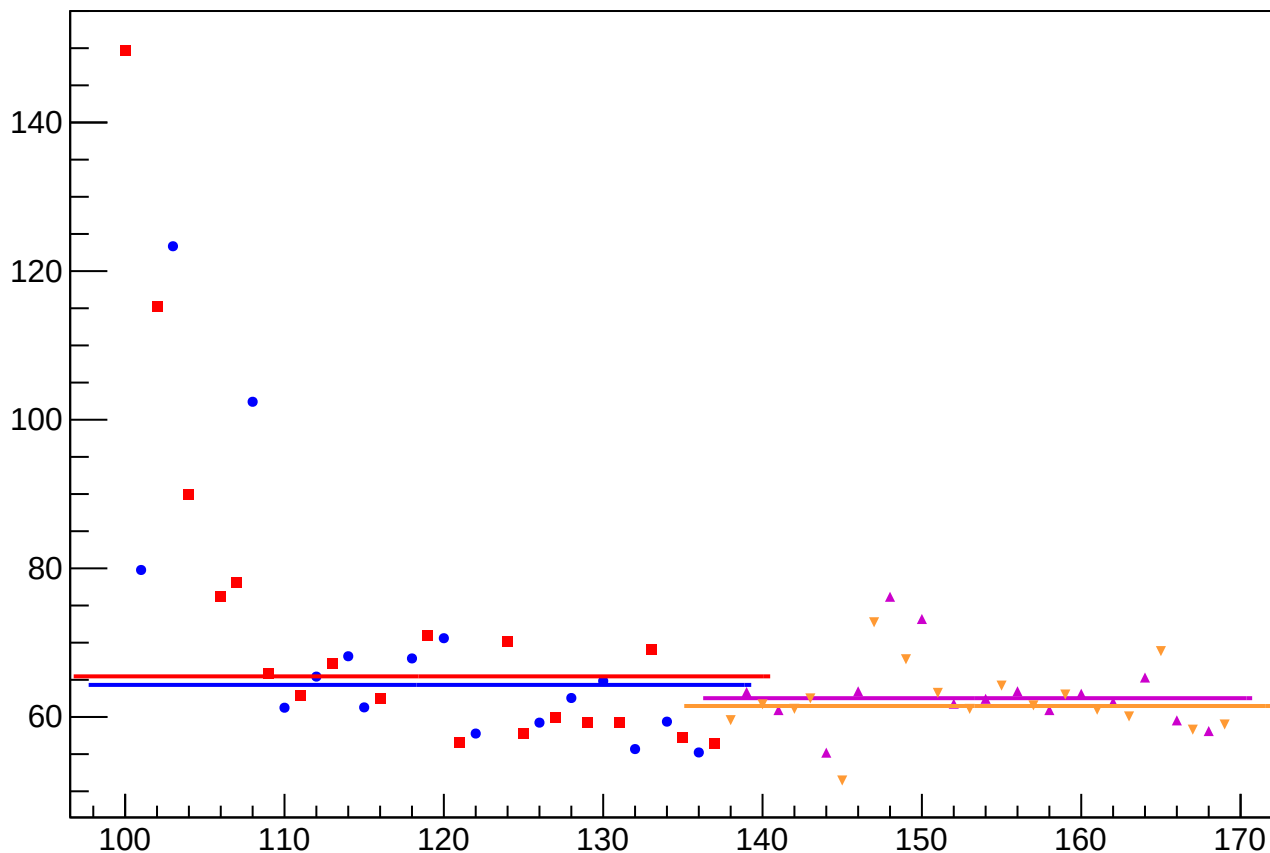
Right: 14.793 $\pm$ 17.337 χ^2/NDF : 41.5/34

In: -63.940 $\pm$ 14.437 χ^2/NDF :57.0/30

Out: -54.889 $\pm$ 13.895 χ^2/NDF :64.7/35

All: -59.242 $\pm$ 10.012 χ^2/NDF : 121.9/66

dit_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.316 ± 0.017 $\chi^2/\text{NDF}: 532065.0/15$

Left Out: 61.477 ± 0.012 $\chi^2/\text{NDF}: 144831.4/16$

Right Out: 65.466 ± 0.017 $\chi^2/\text{NDF}: 482361.0/18$

Left In: 62.530 ± 0.013 $\chi^2/\text{NDF}: 142098.3/14$

Left: 61.972 ± 0.009 $\chi^2/\text{NDF}: 290604.1/31$

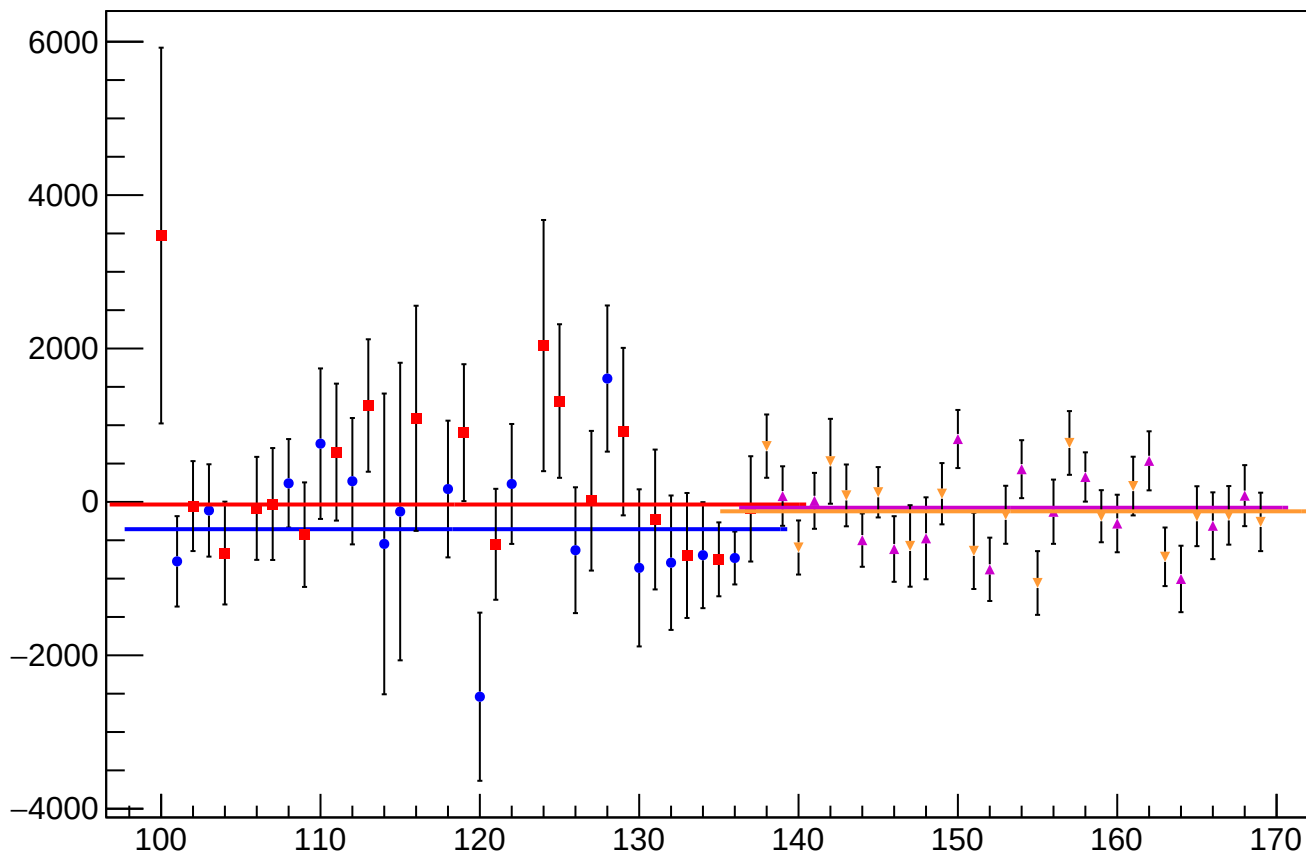
Right: 64.889 ± 0.012 $\chi^2/\text{NDF}: 1016625.1/34$

In: 63.152 ± 0.010 $\chi^2/\text{NDF}: 681112.0/30$

Out: 62.753 ± 0.010 $\chi^2/\text{NDF}: 663061.5/35$

All: 62.945 ± 0.007 $\chi^2/\text{NDF}: 1344964.2/66$

asym_sam_13_57_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.529+/-180.335 χ^2/NDF : 14.8/15

Left Out: -122.585+/-96.358 χ^2/NDF : 23.4/16

Right Out: -33.786+/-181.561 χ^2/NDF : 15.4/18

Left In: -76.032+/-101.326 χ^2/NDF : 24.4/14

Left: -100.477+/-69.825 χ^2/NDF : 47.9/31

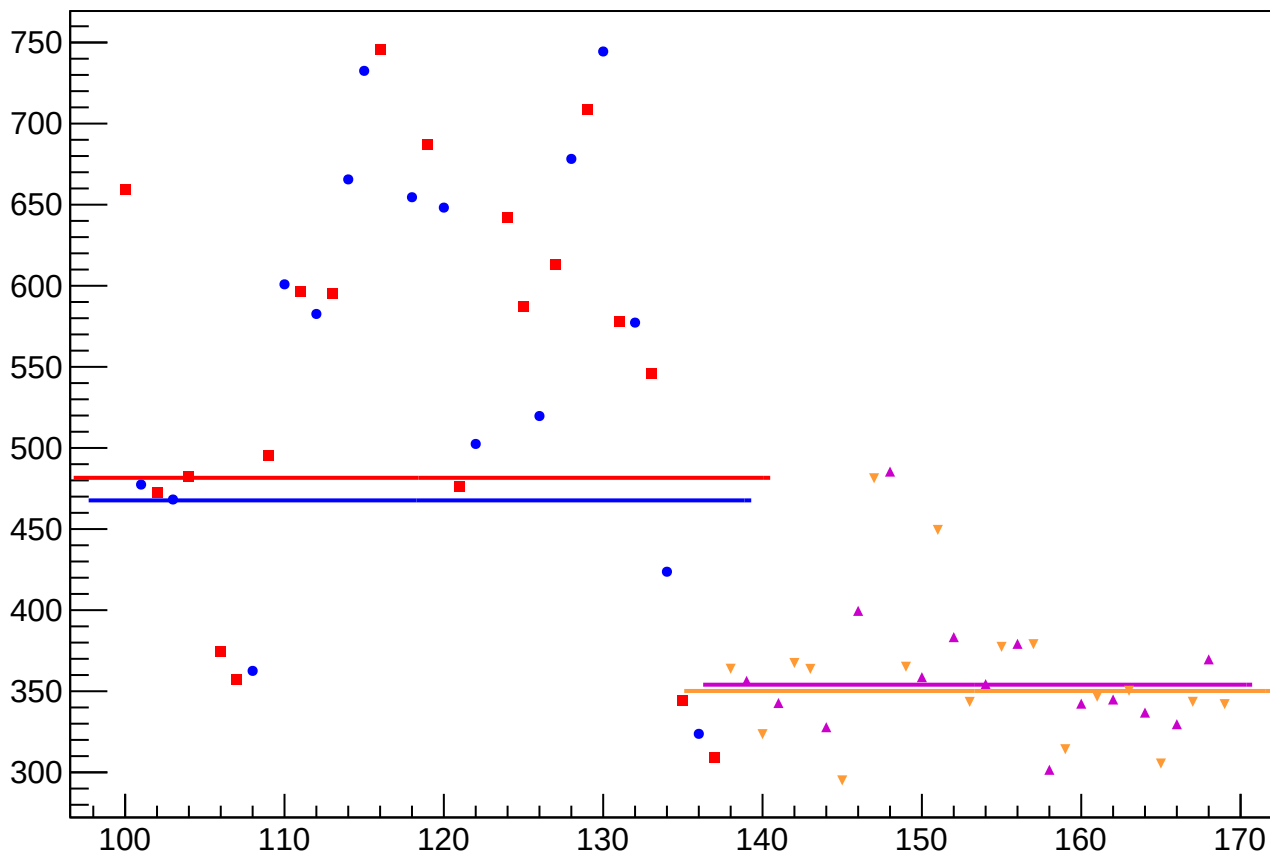
Right: -195.748+/-127.947 χ^2/NDF : 31.8/34

In: -143.097+/-88.336 χ^2/NDF : 41.0/30

Out: -103.070+/-85.114 χ^2/NDF : 39.0/35

All: -122.340+/-61.292 χ^2/NDF : 80.1/66

asym_sam_13_57_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 467.674 $\pm$ 0.128 χ^2 /NDF: 985943.7/15

Left Out: 350.180 $\pm$ 0.068 χ^2 /NDF: 347832.7/16

Right Out: 481.599 $\pm$ 0.128 χ^2 /NDF: 854281.1/18

Left In: 354.043 $\pm$ 0.072 χ^2 /NDF: 243519.3/14

Left: 352.014 $\pm$ 0.049 χ^2 /NDF: 592878.5/31

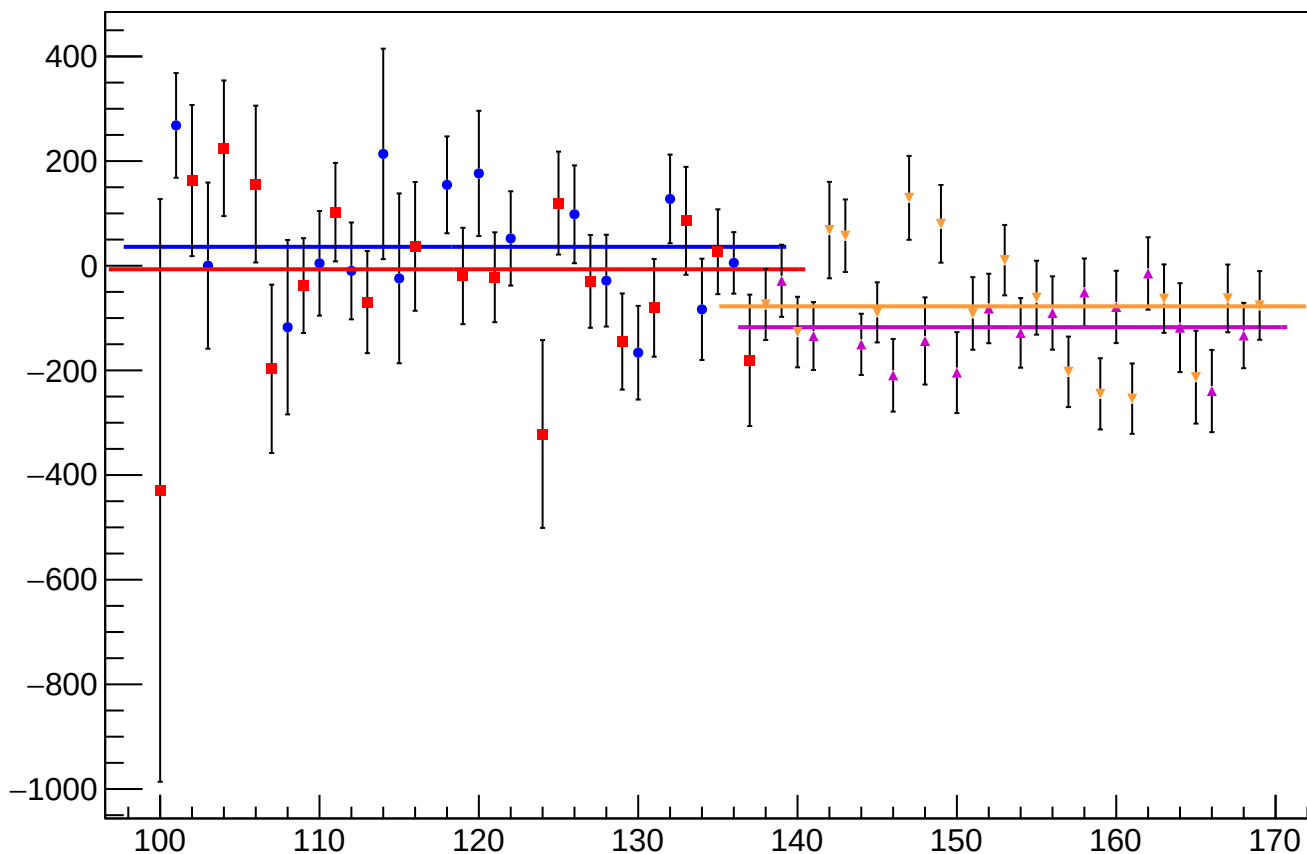
Right: 474.590 $\pm$ 0.090 χ^2 /NDF: 1846147.0/34

In: 381.309 $\pm$ 0.062 χ^2 /NDF: 1833013.4/30

Out: 379.061 $\pm$ 0.060 χ^2 /NDF: 2019700.9/35

All: 380.143 $\pm$ 0.043 χ^2 /NDF: 3853385.8/66

eigen_dit_asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 36.157 ± 24.471 $\chi^2/\text{NDF}: 19.6/15$

Left Out: -77.547 ± 16.850 $\chi^2/\text{NDF}: 38.7/16$

Right Out: -6.735 ± 24.565 $\chi^2/\text{NDF}: 20.3/18$

Left In: -117.378 ± 17.880 $\chi^2/\text{NDF}: 11.7/14$

Left: -96.282 ± 12.263 $\chi^2/\text{NDF}: 53.0/31$

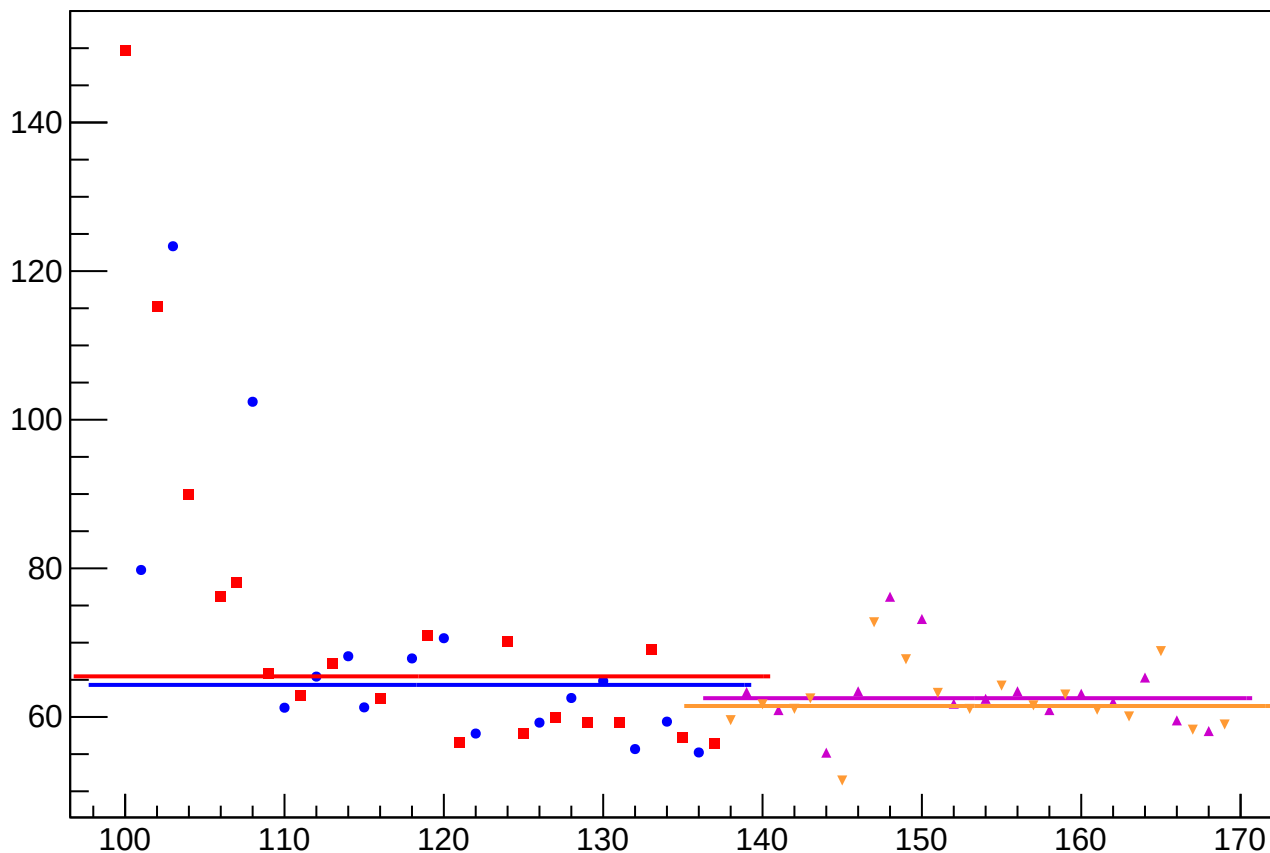
Right: 14.793 ± 17.337 $\chi^2/\text{NDF}: 41.5/34$

In: -63.940 ± 14.437 $\chi^2/\text{NDF}: 57.0/30$

Out: -54.889 ± 13.895 $\chi^2/\text{NDF}: 64.7/35$

All: -59.242 ± 10.012 $\chi^2/\text{NDF}: 121.9/66$

eigen_dit_asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 64.316 ± 0.017 $\chi^2/\text{NDF}: 532073.4/15$

Left Out: 61.477 ± 0.012 $\chi^2/\text{NDF}: 144835.6/16$

Right Out: 65.466 ± 0.017 $\chi^2/\text{NDF}: 482367.1/18$

Left In: 62.530 ± 0.013 $\chi^2/\text{NDF}: 142102.2/14$

Left: 61.972 ± 0.009 $\chi^2/\text{NDF}: 290612.0/31$

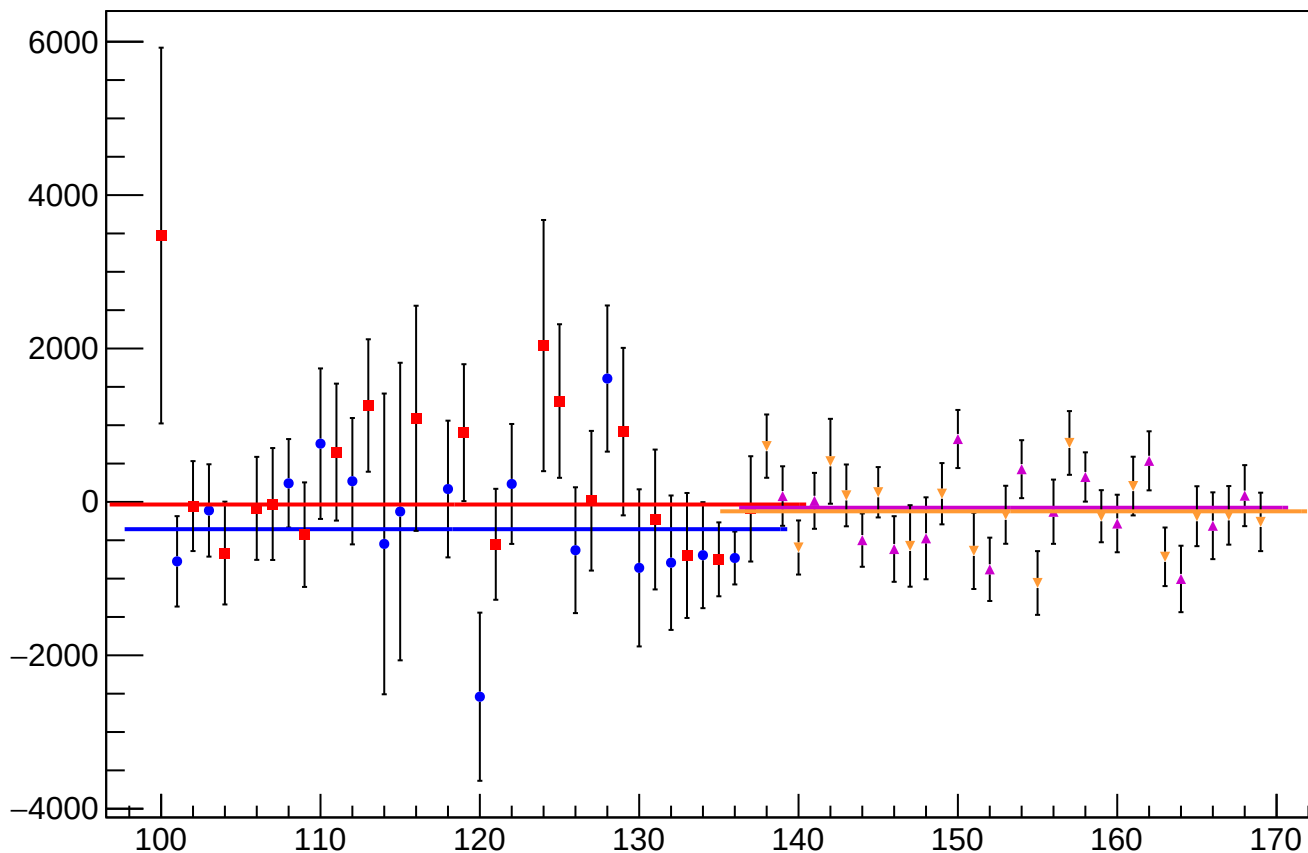
Right: 64.889 ± 0.012 $\chi^2/\text{NDF}: 1016639.7/34$

In: 63.152 ± 0.010 $\chi^2/\text{NDF}: 681123.4/30$

Out: 62.753 ± 0.010 $\chi^2/\text{NDF}: 663069.1/35$

All: 62.945 ± 0.007 $\chi^2/\text{NDF}: 1344983.1/66$

asym_sam_13_57_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -355.529+/-180.334 χ^2/NDF : 14.8/15

Left Out: -122.585+/-96.358 χ^2/NDF : 23.4/16

Right Out: -33.787+/-181.560 χ^2/NDF : 15.4/18

Left In: -76.032+/-101.326 χ^2/NDF : 24.4/14

Left: -100.477+/-69.825 χ^2/NDF : 47.9/31

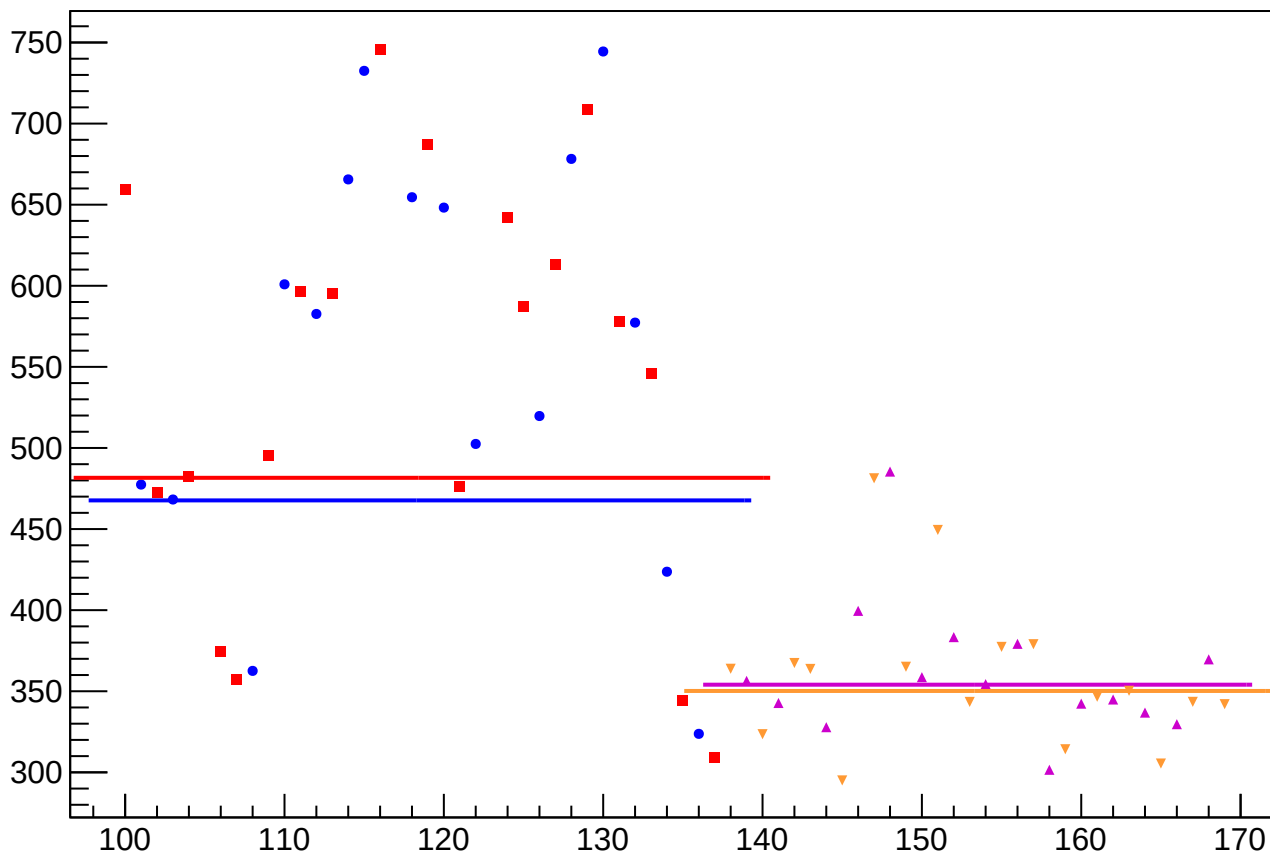
Right: -195.748+/-127.947 χ^2/NDF : 31.8/34

In: -143.097+/-88.336 χ^2/NDF : 41.0/30

Out: -103.070+/-85.114 χ^2/NDF : 39.0/35

All: -122.340+/-61.292 χ^2/NDF : 80.1/66

asym_sam_13_57_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 467.674 $\pm$ 0.128 χ^2 /NDF: 985945.4/15

Left Out: 350.180 $\pm$ 0.068 χ^2 /NDF: 347832.2/16

Right Out: 481.599 $\pm$ 0.128 χ^2 /NDF: 854281.0/18

Left In: 354.043 $\pm$ 0.072 χ^2 /NDF: 243520.8/14

Left: 352.014 $\pm$ 0.049 χ^2 /NDF: 592879.5/31

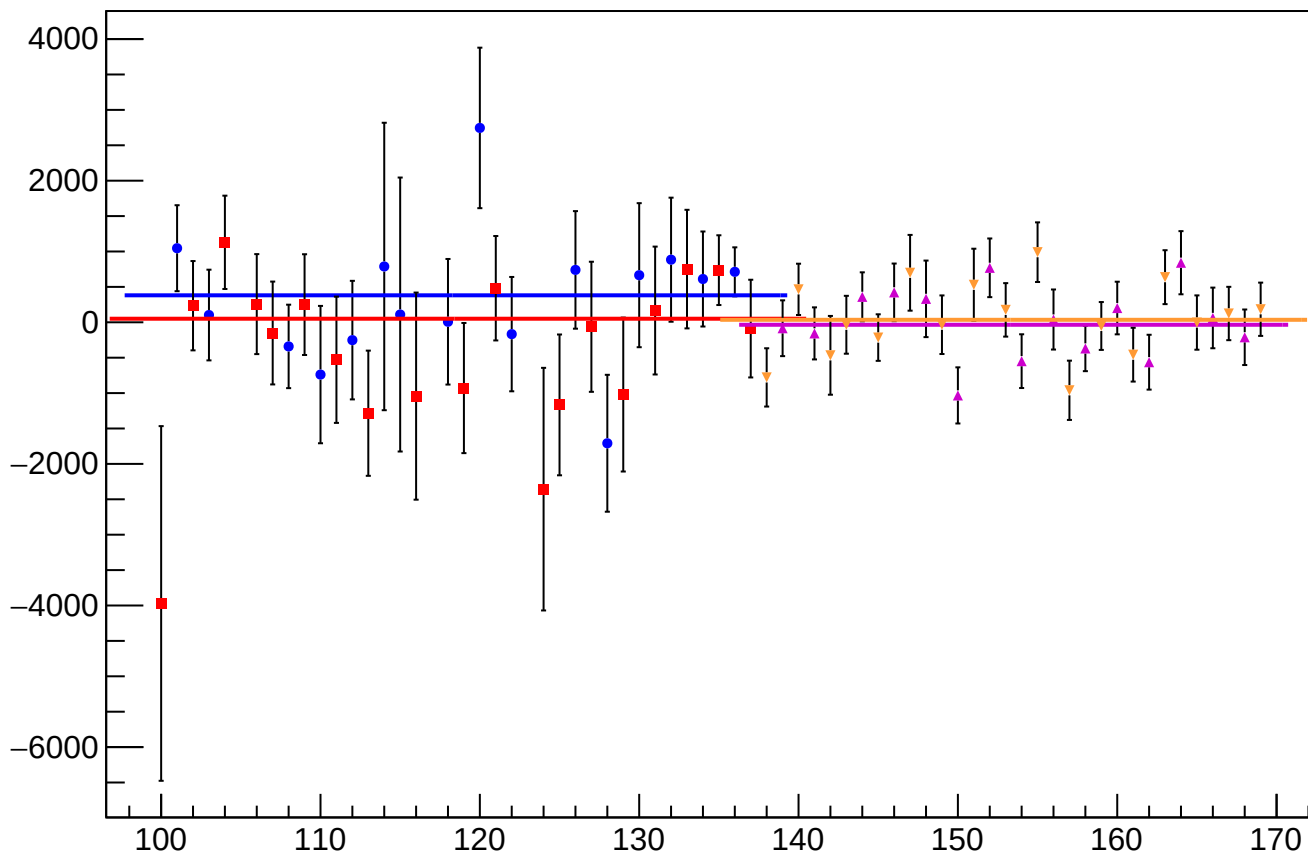
Right: 474.589 $\pm$ 0.090 χ^2 /NDF: 1846148.4/34

In: 381.309 $\pm$ 0.062 χ^2 /NDF: 1833011.0/30

Out: 379.061 $\pm$ 0.060 χ^2 /NDF: 2019691.0/35

All: 380.143 $\pm$ 0.043 χ^2 /NDF: 3853373.4/66

asym_sam_13_57_dd_mean vs Slug, Sign Corrected



Right In: 381.086 $\pm$ 182.655 χ^2 /NDF: 16.1/15

Left Out: 35.129 $\pm$ 96.666 χ^2 /NDF:24.7/16

Right Out: 50.392 $\pm$ 185.262 χ^2 /NDF: 17.5/18

Left In: -34.983 $\pm$ 101.566 χ^2 /NDF:22.6/14

Left: 1.805 $\pm$ 70.021 χ^2 /NDF: 47.5/31

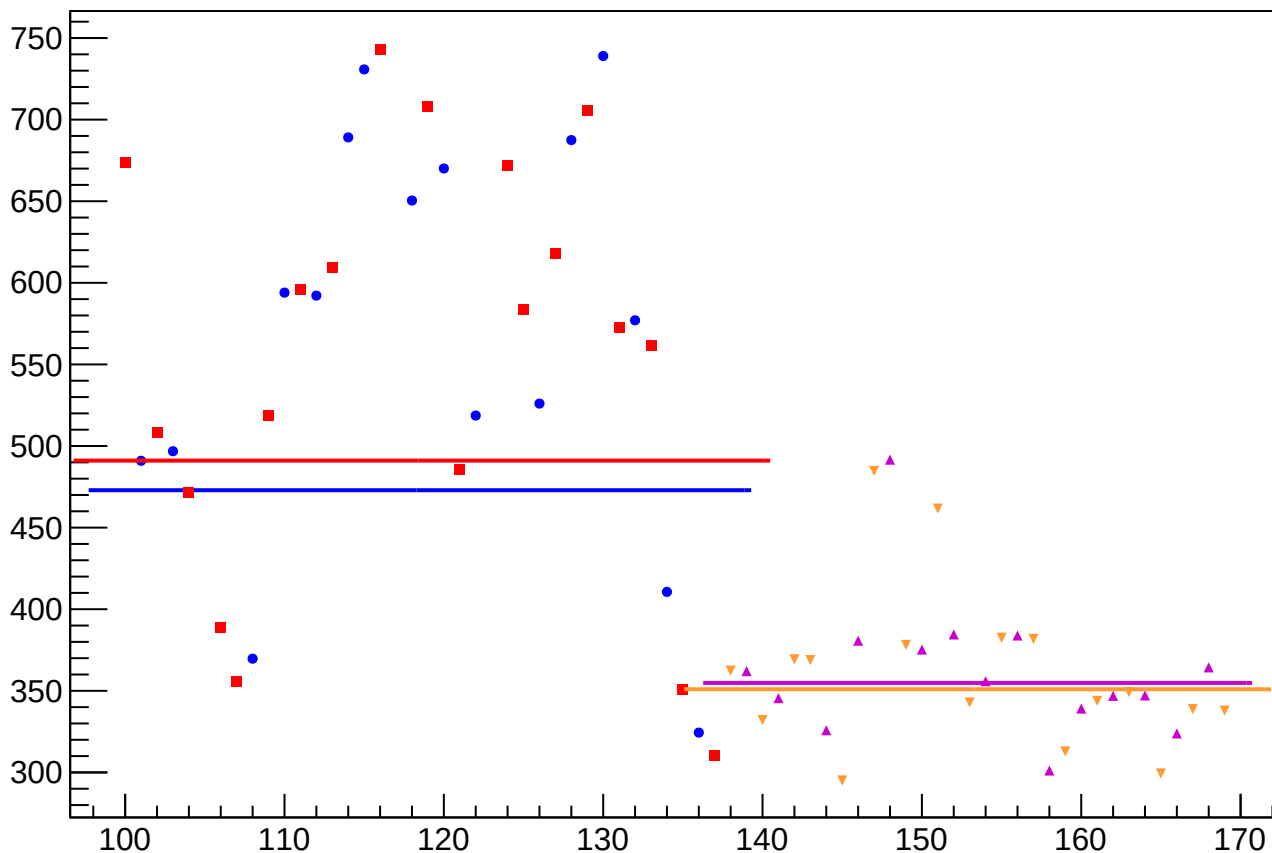
Right: 218.082 $\pm$ 130.069 χ^2 /NDF: 35.2/34

In: 63.281 $\pm$ 88.766 χ^2 /NDF:42.7/30

Out: 38.395 $\pm$ 85.701 χ^2 /NDF:42.1/35

All: 50.401 $\pm$ 61.655 χ^2 /NDF: 84.9/66

asym_sam_13_57_dd_rms vs Slug, Sign Corrected



Right In: 472.924 $\pm$ 0.129 χ^2 /NDF: 1000274.3/15

Left Out: 350.952 $\pm$ 0.068 χ^2 /NDF: 388634.5/16

Right Out: 491.063 $\pm$ 0.131 χ^2 /NDF: 847493.6/18

Left In: 354.831 $\pm$ 0.072 χ^2 /NDF: 249722.9/14

Left: 352.796 $\pm$ 0.050 χ^2 /NDF: 639887.9/31

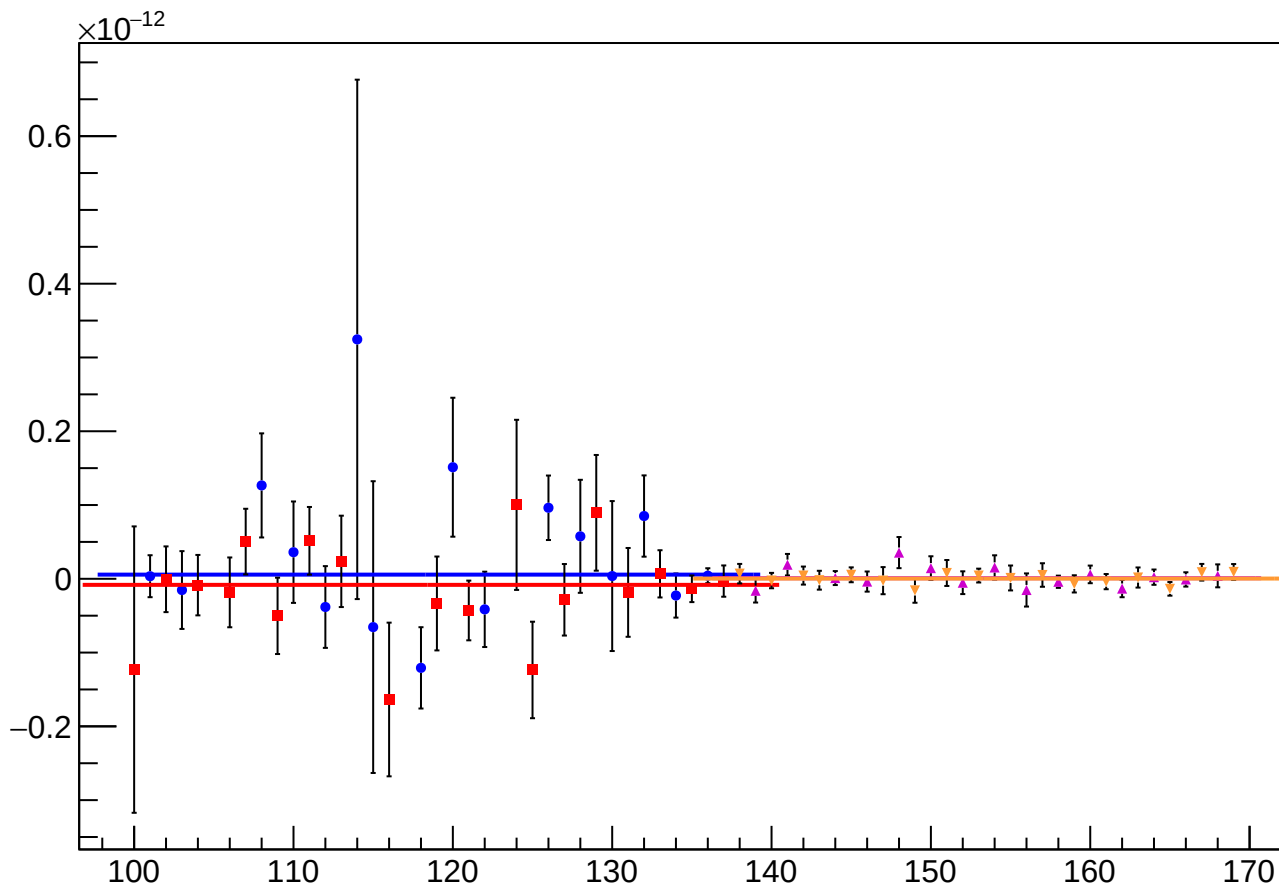
Right: 481.865 $\pm$ 0.092 χ^2 /NDF: 1857489.5/34

In: 382.721 $\pm$ 0.063 χ^2 /NDF: 1888575.1/30

Out: 380.935 $\pm$ 0.061 χ^2 /NDF: 2135270.2/35

All: 381.797 $\pm$ 0.044 χ^2 /NDF: 4024264.5/66

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 21.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 6.2/16

Right Out: -0.000+/-0.000 χ^2/NDF : 14.0/18

Left In: 0.000+/-0.000 χ^2/NDF : 9.7/14

Left: 0.000+/-0.000 χ^2/NDF : 16.0/31

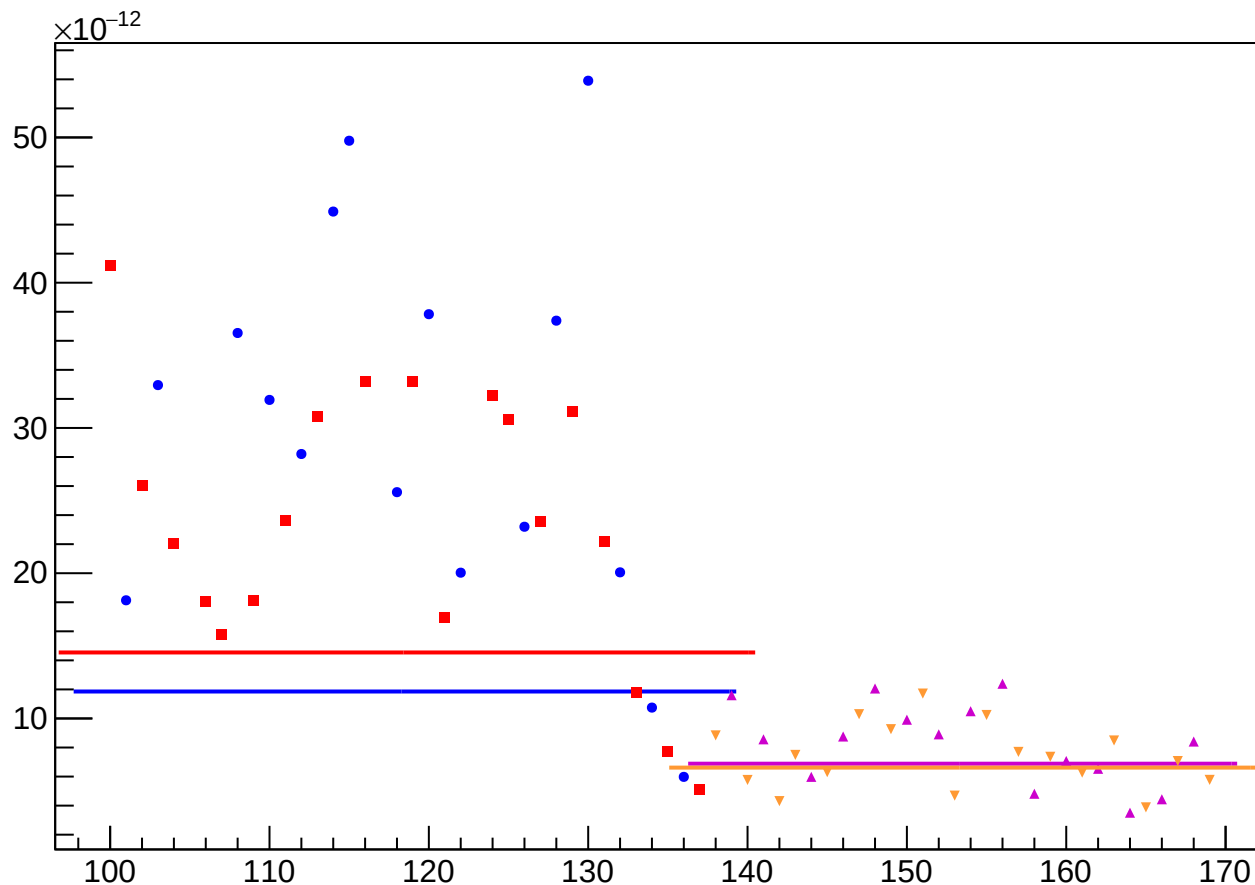
Right: -0.000+/-0.000 χ^2/NDF : 36.4/34

In: 0.000+/-0.000 χ^2/NDF : 31.2/30

Out: -0.000+/-0.000 χ^2/NDF : 21.0/35

All: 0.000+/-0.000 χ^2/NDF : 52.4/66

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2848478.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 875837.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1769864.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 1182949.8/14

Left: 0.000+/-0.000 χ^2/NDF : 2066342.8/31

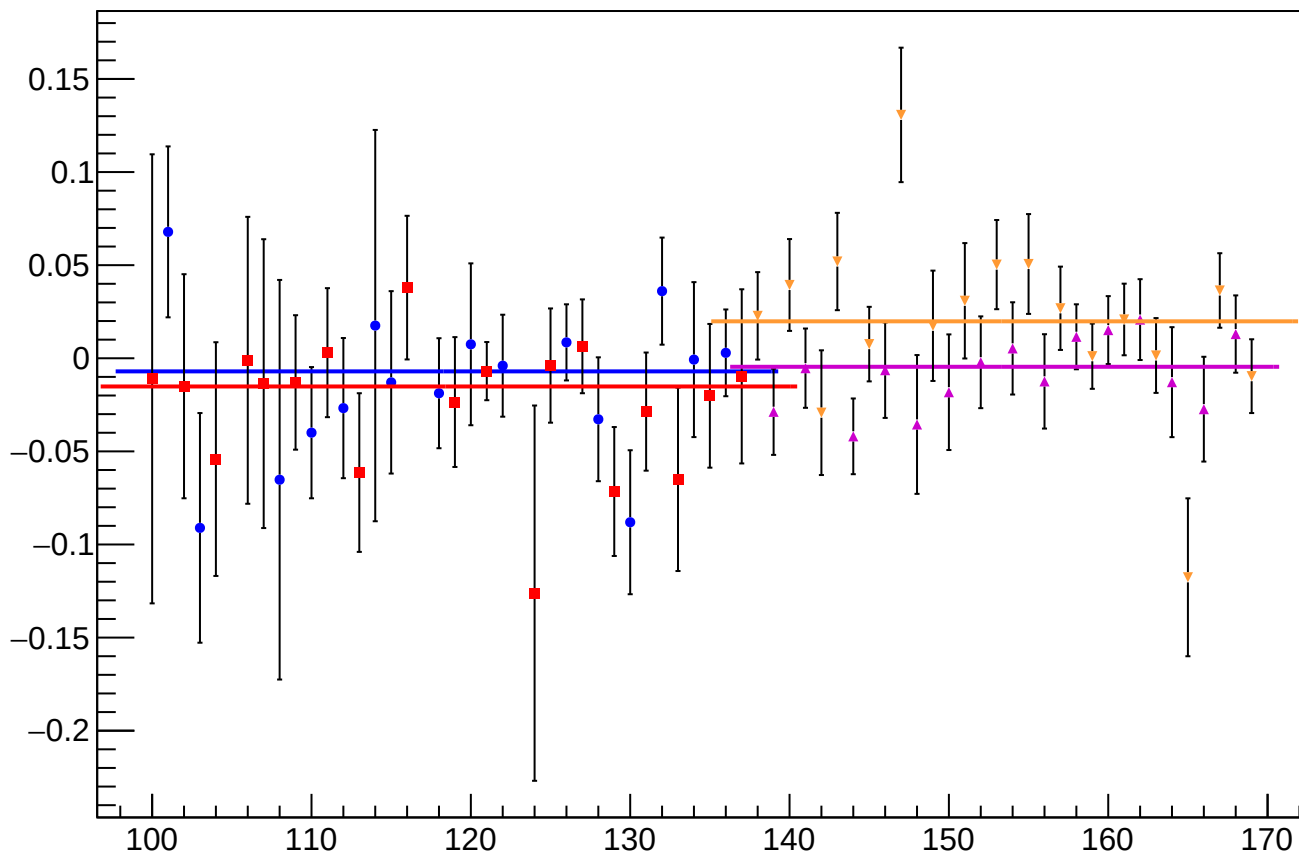
Right: 0.000+/-0.000 χ^2/NDF : 4713356.4/34

In: 0.000+/-0.000 χ^2/NDF : 4678635.4/30

Out: 0.000+/-0.000 χ^2/NDF : 3969840.5/35

All: 0.000+/-0.000 χ^2/NDF : 8655592.4/66

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 χ^2/NDF : 14.3/15

Left Out: 0.020 ± 0.006 χ^2/NDF : 32.6/16

Right Out: -0.015 ± 0.008 χ^2/NDF : 10.1/18

Left In: -0.005 ± 0.006 χ^2/NDF : 10.5/14

Left: 0.008 ± 0.004 χ^2/NDF : 51.7/31

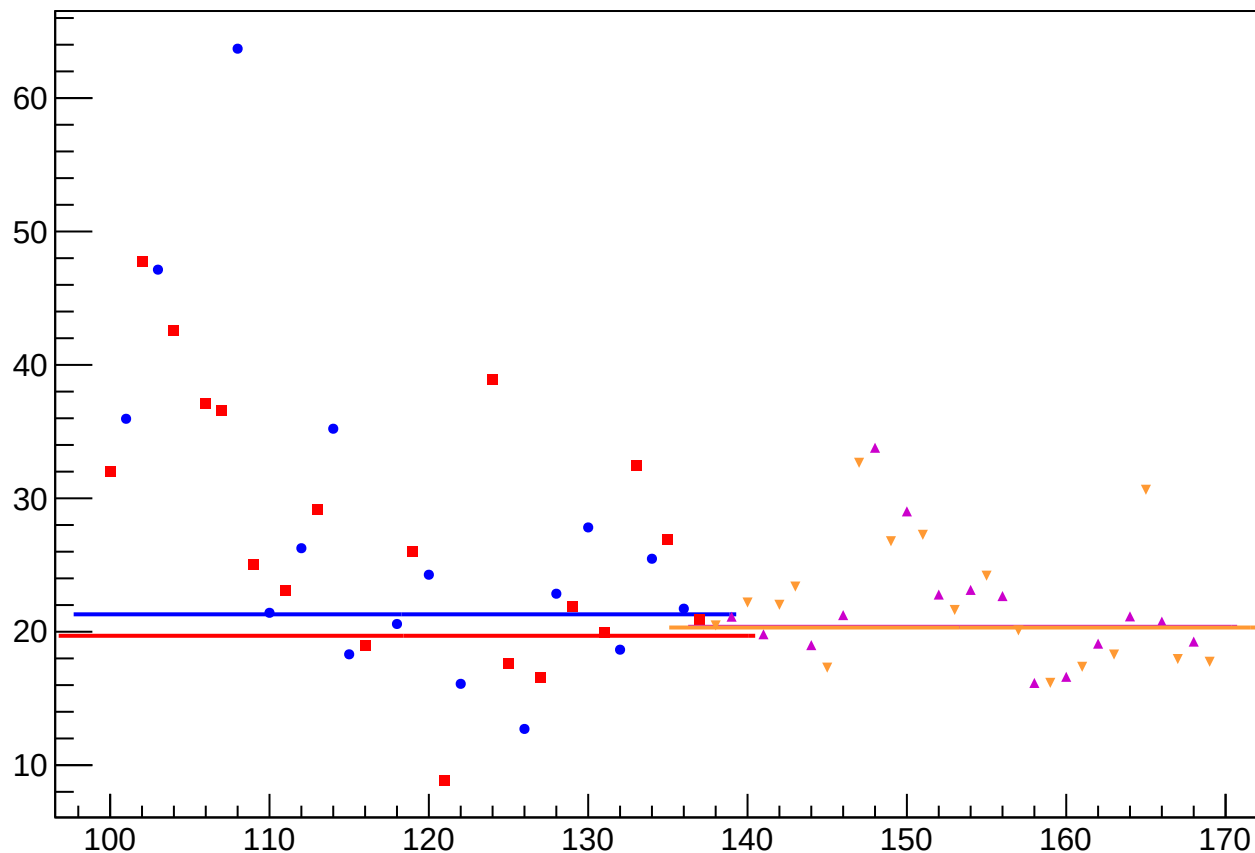
Right: -0.011 ± 0.006 χ^2/NDF : 24.9/34

In: -0.005 ± 0.005 χ^2/NDF : 24.8/30

Out: 0.008 ± 0.005 χ^2/NDF : 54.9/35

All: 0.002 ± 0.003 χ^2/NDF : 83.8/66

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.305 $\pm$ 0.006 χ^2 /NDF: 1479398.3/15

Left Out: 20.317 $\pm$ 0.004 χ^2 /NDF: 926893.9/16

Right Out: 19.697 $\pm$ 0.006 χ^2 /NDF: 2438979.3/18

Left In: 20.370 $\pm$ 0.004 χ^2 /NDF: 705206.0/14

Left: 20.342 $\pm$ 0.003 χ^2 /NDF: 1632181.2/31

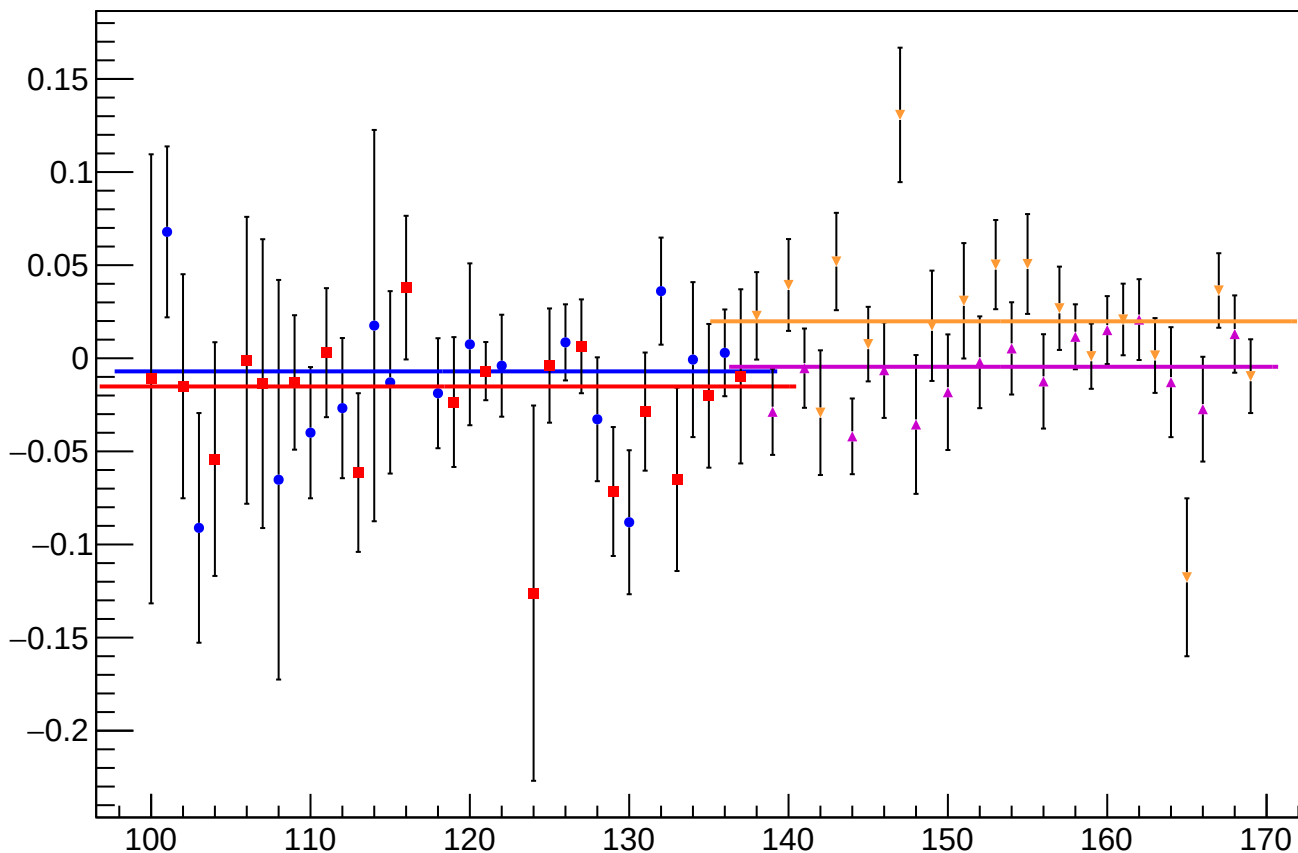
Right: 20.463 $\pm$ 0.004 χ^2 /NDF: 3954812.2/34

In: 20.675 $\pm$ 0.003 χ^2 /NDF: 2200465.5/30

Out: 20.114 $\pm$ 0.003 χ^2 /NDF: 3373515.9/35

All: 20.382 $\pm$ 0.002 χ^2 /NDF: 5587551.9/66

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 $\chi^2/\text{NDF}: 14.3/15$

Left Out: 0.020 ± 0.006 $\chi^2/\text{NDF}: 32.6/16$

Right Out: -0.015 ± 0.008 $\chi^2/\text{NDF}: 10.1/18$

Left In: -0.005 ± 0.006 $\chi^2/\text{NDF}: 10.5/14$

Left: 0.008 ± 0.004 $\chi^2/\text{NDF}: 51.7/31$

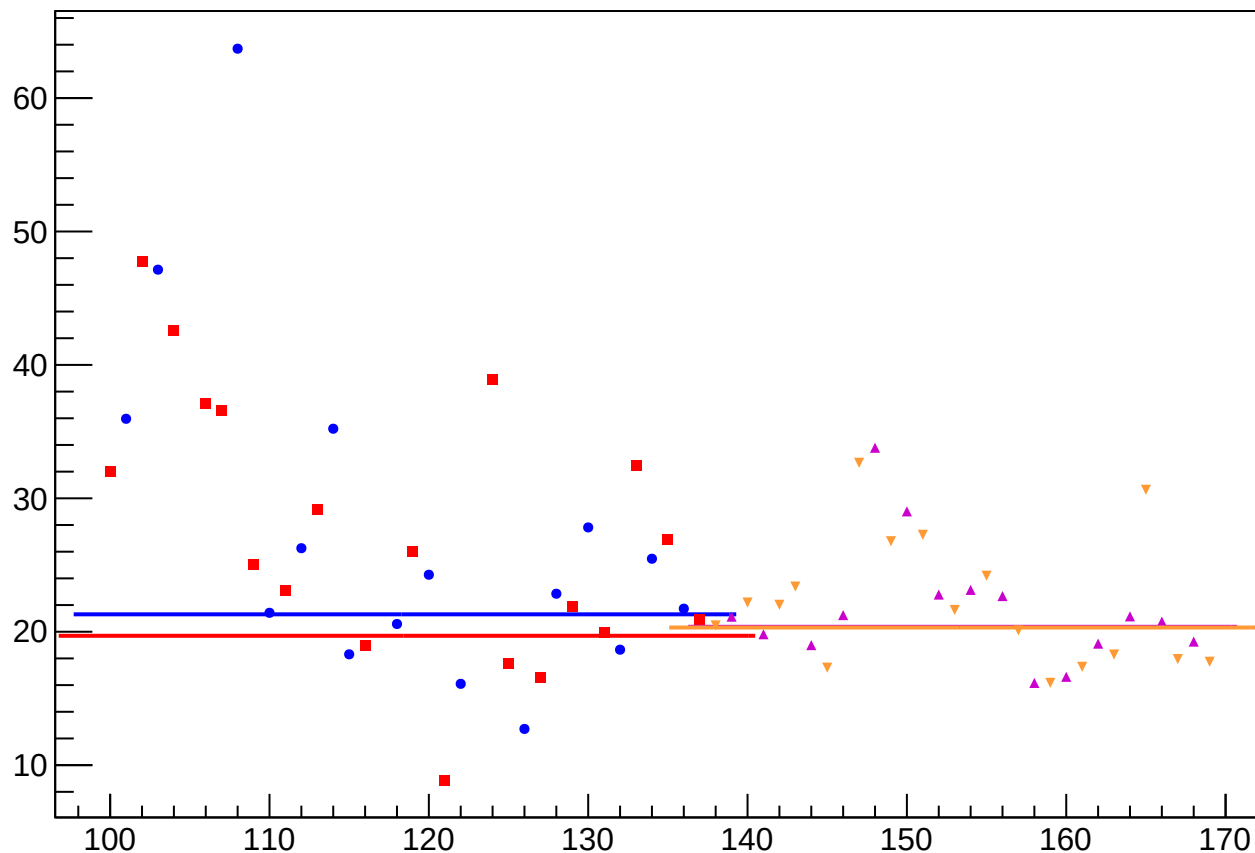
Right: -0.011 ± 0.006 $\chi^2/\text{NDF}: 24.9/34$

In: -0.005 ± 0.005 $\chi^2/\text{NDF}: 24.8/30$

Out: 0.008 ± 0.005 $\chi^2/\text{NDF}: 54.9/35$

All: 0.002 ± 0.003 $\chi^2/\text{NDF}: 83.8/66$

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.305 $\pm$ 0.006 χ^2 /NDF: 1479398.3/15

Left Out: 20.317 $\pm$ 0.004 χ^2 /NDF: 926893.9/16

Right Out: 19.697 $\pm$ 0.006 χ^2 /NDF: 2438979.3/18

Left In: 20.370 $\pm$ 0.004 χ^2 /NDF: 705206.0/14

Left: 20.342 $\pm$ 0.003 χ^2 /NDF: 1632181.2/31

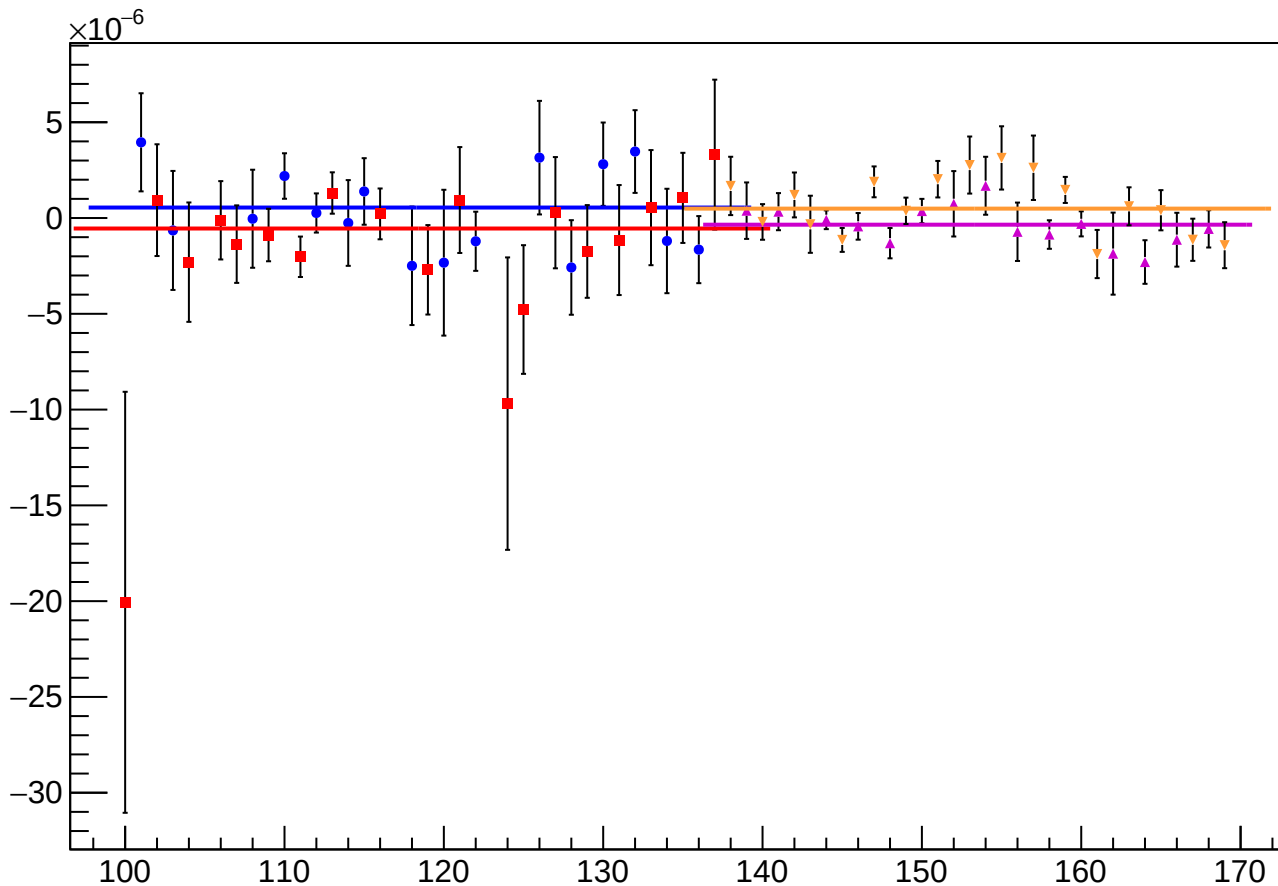
Right: 20.463 $\pm$ 0.004 χ^2 /NDF: 3954812.2/34

In: 20.675 $\pm$ 0.003 χ^2 /NDF: 2200465.5/30

Out: 20.114 $\pm$ 0.003 χ^2 /NDF: 3373515.9/35

All: 20.382 $\pm$ 0.002 χ^2 /NDF: 5587551.9/66

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 14.4/15$

Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 31.2/16$

Right Out: -0.000 ± 0.000 $\chi^2/\text{NDF}: 15.3/18$

Left In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 10.3/14$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 48.1/31$

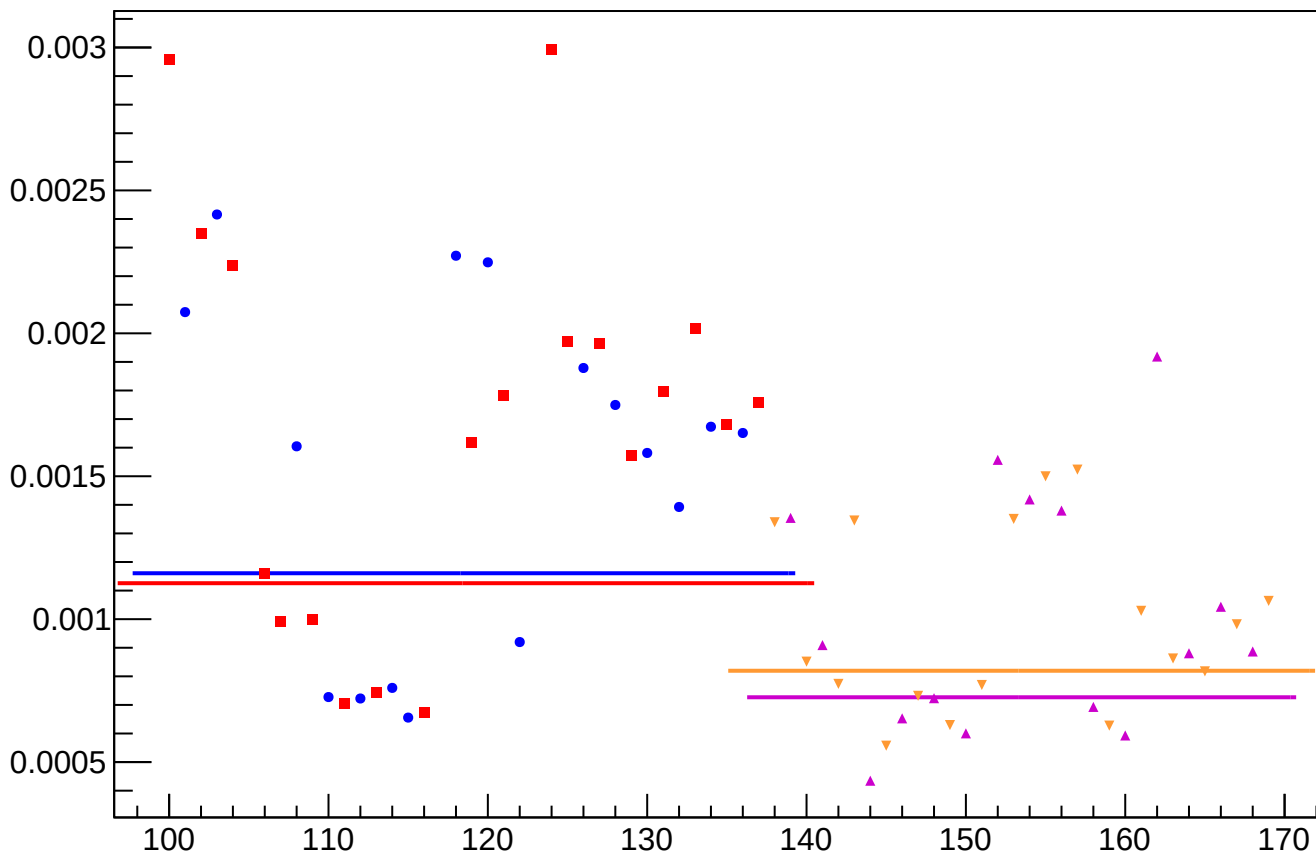
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 32.5/34$

In: -0.000 ± 0.000 $\chi^2/\text{NDF}: 27.6/30$

Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 50.6/35$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 80.6/66$

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 2534643.9/15

Left Out: 0.001+/-0.000 χ^2/NDF : 2310732.3/16

Right Out: 0.001+/-0.000 χ^2/NDF : 2623987.9/18

Left In: 0.001+/-0.000 χ^2/NDF : 3405233.4/14

Left: 0.001+/-0.000 χ^2/NDF : 5875768.1/31

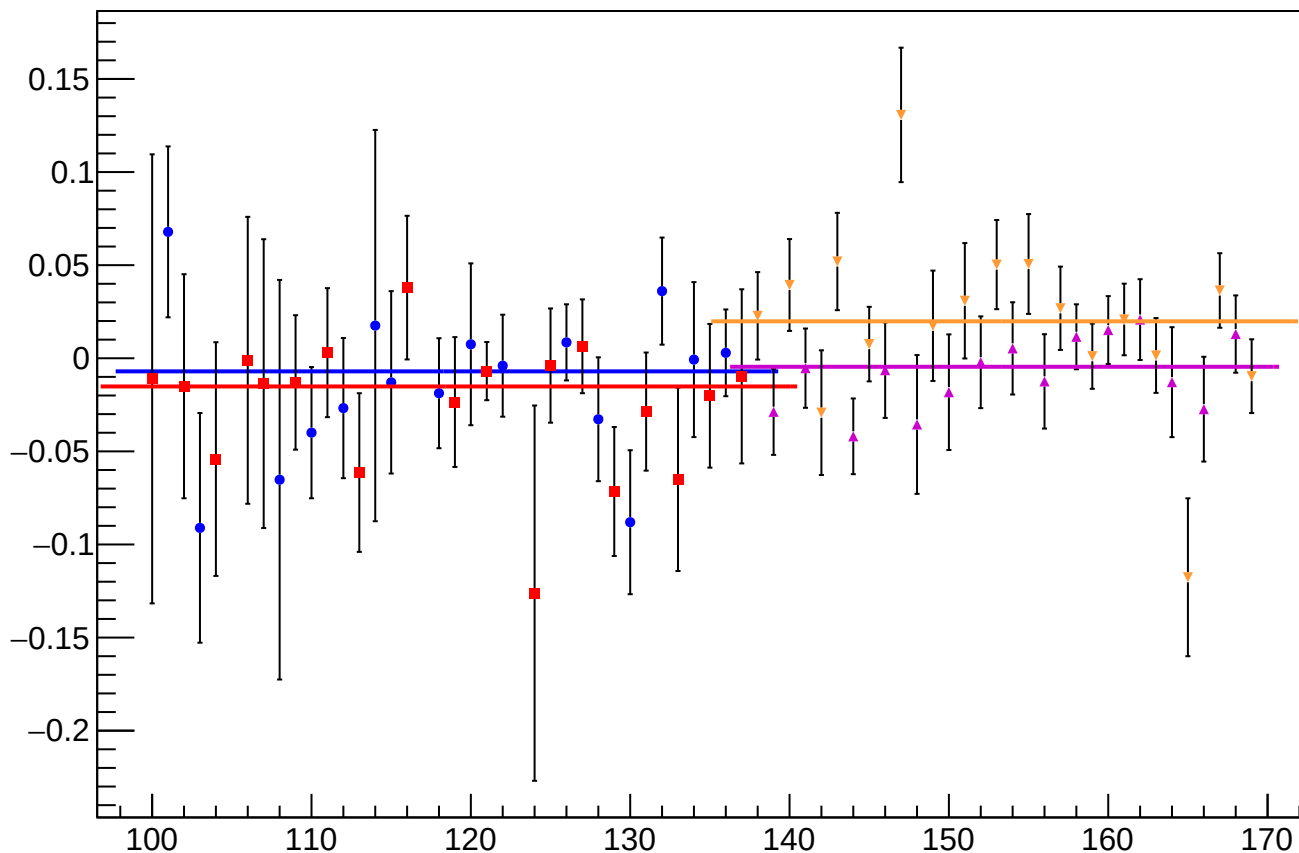
Right: 0.001+/-0.000 χ^2/NDF : 5164155.8/34

In: 0.001+/-0.000 χ^2/NDF : 7285507.9/30

Out: 0.001+/-0.000 χ^2/NDF : 5636284.3/35

All: 0.001+/-0.000 χ^2/NDF : 13068958.6/66

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 $\chi^2/\text{NDF}: 14.3/15$

Left Out: 0.020 ± 0.006 $\chi^2/\text{NDF}: 32.6/16$

Right Out: -0.015 ± 0.008 $\chi^2/\text{NDF}: 10.1/18$

Left In: -0.005 ± 0.006 $\chi^2/\text{NDF}: 10.5/14$

Left: 0.008 ± 0.004 $\chi^2/\text{NDF}: 51.7/31$

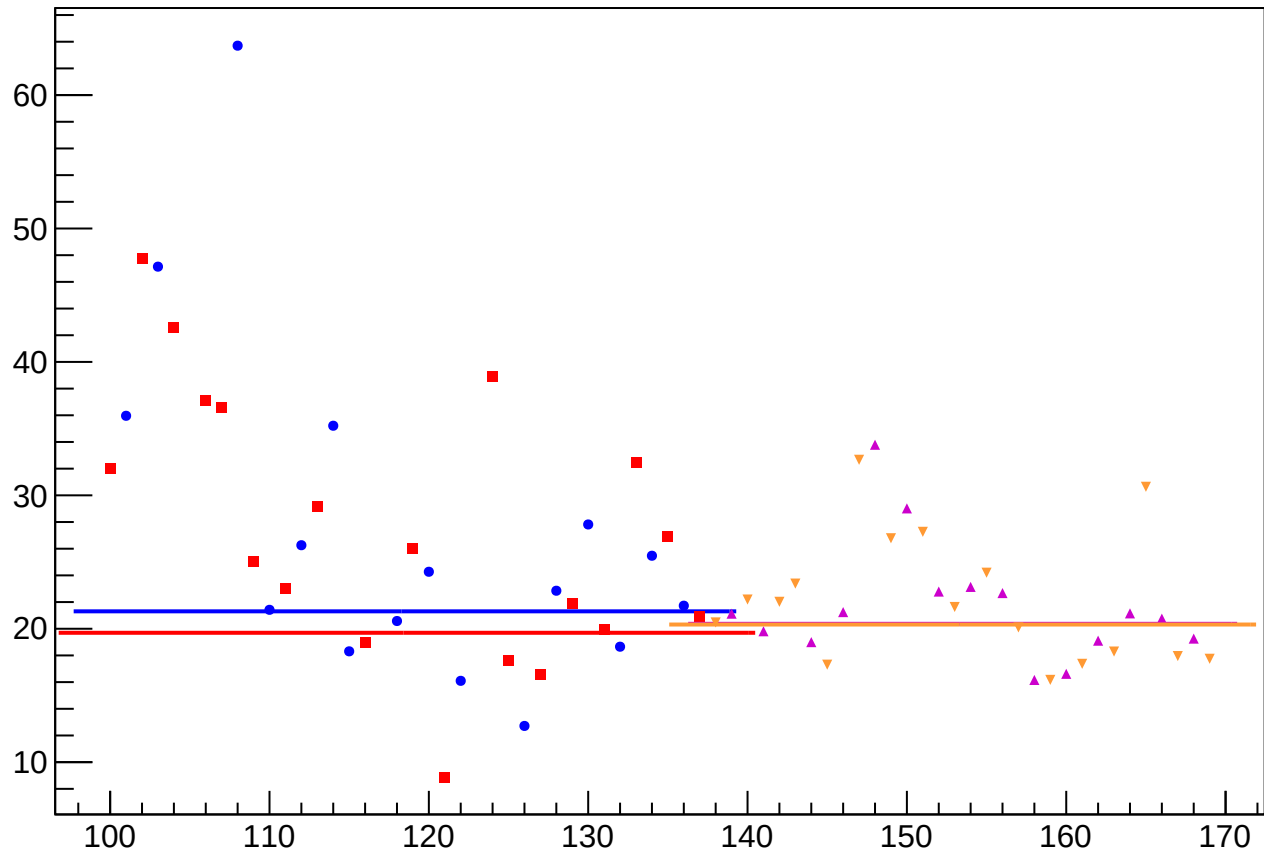
Right: -0.011 ± 0.006 $\chi^2/\text{NDF}: 24.9/34$

In: -0.005 ± 0.005 $\chi^2/\text{NDF}: 24.8/30$

Out: 0.008 ± 0.005 $\chi^2/\text{NDF}: 54.9/35$

All: 0.002 ± 0.003 $\chi^2/\text{NDF}: 83.8/66$

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.306 $\pm$ 0.006 χ^2 /NDF: 1479231.5/15

Left Out: 20.317 $\pm$ 0.004 χ^2 /NDF: 927027.9/16

Right Out: 19.698 $\pm$ 0.006 χ^2 /NDF: 2438612.4/18

Left In: 20.369 $\pm$ 0.004 χ^2 /NDF: 705322.5/14

Left: 20.342 $\pm$ 0.003 χ^2 /NDF: 1632431.7/31

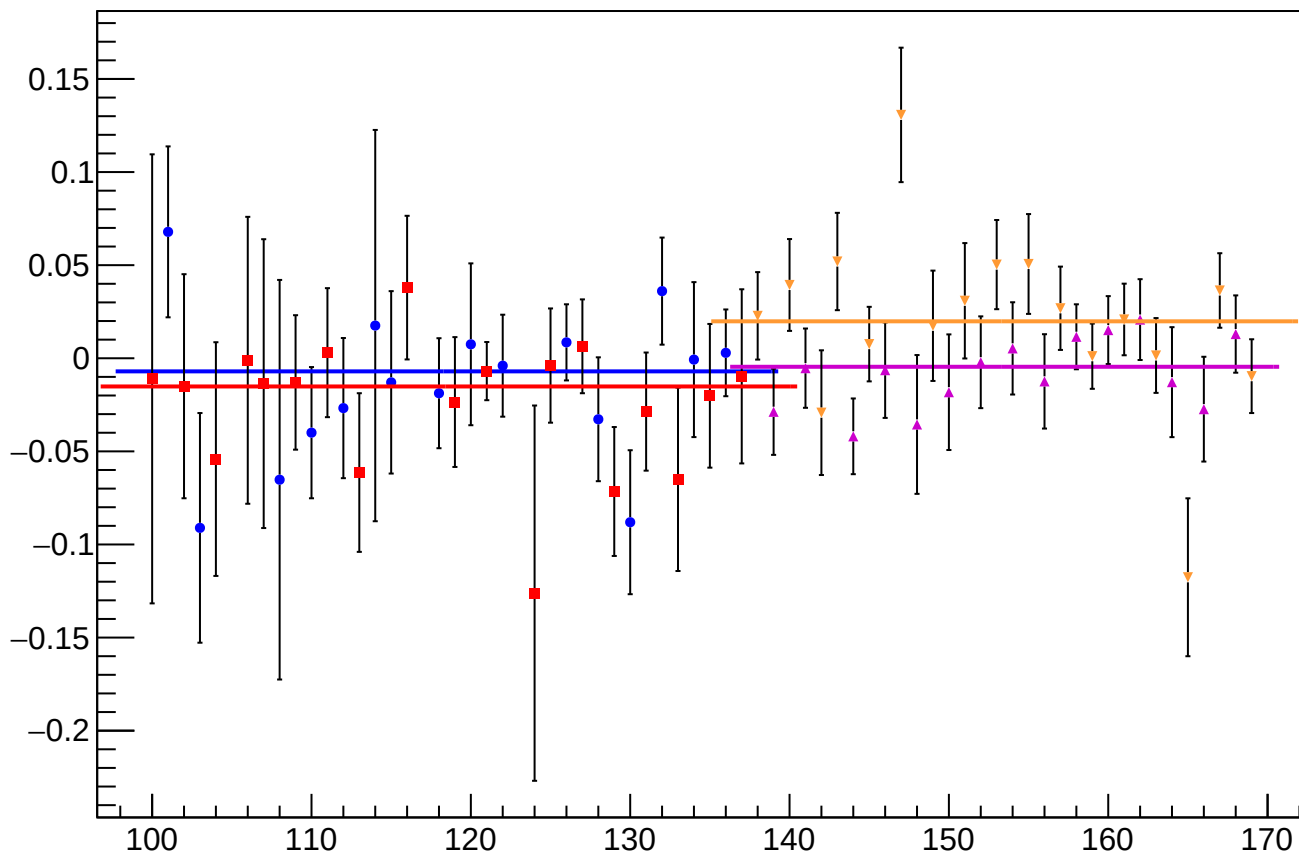
Right: 20.464 $\pm$ 0.004 χ^2 /NDF: 3954261.4/34

In: 20.675 $\pm$ 0.003 χ^2 /NDF: 2200428.9/30

Out: 20.114 $\pm$ 0.003 χ^2 /NDF: 3373265.2/35

All: 20.382 $\pm$ 0.002 χ^2 /NDF: 5587256.8/66

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.007 ± 0.009 χ^2/NDF : 14.3/15

Left Out: 0.020 ± 0.006 χ^2/NDF : 32.6/16

Right Out: -0.015 ± 0.008 χ^2/NDF : 10.1/18

Left In: -0.005 ± 0.006 χ^2/NDF : 10.5/14

Left: 0.008 ± 0.004 χ^2/NDF : 51.7/31

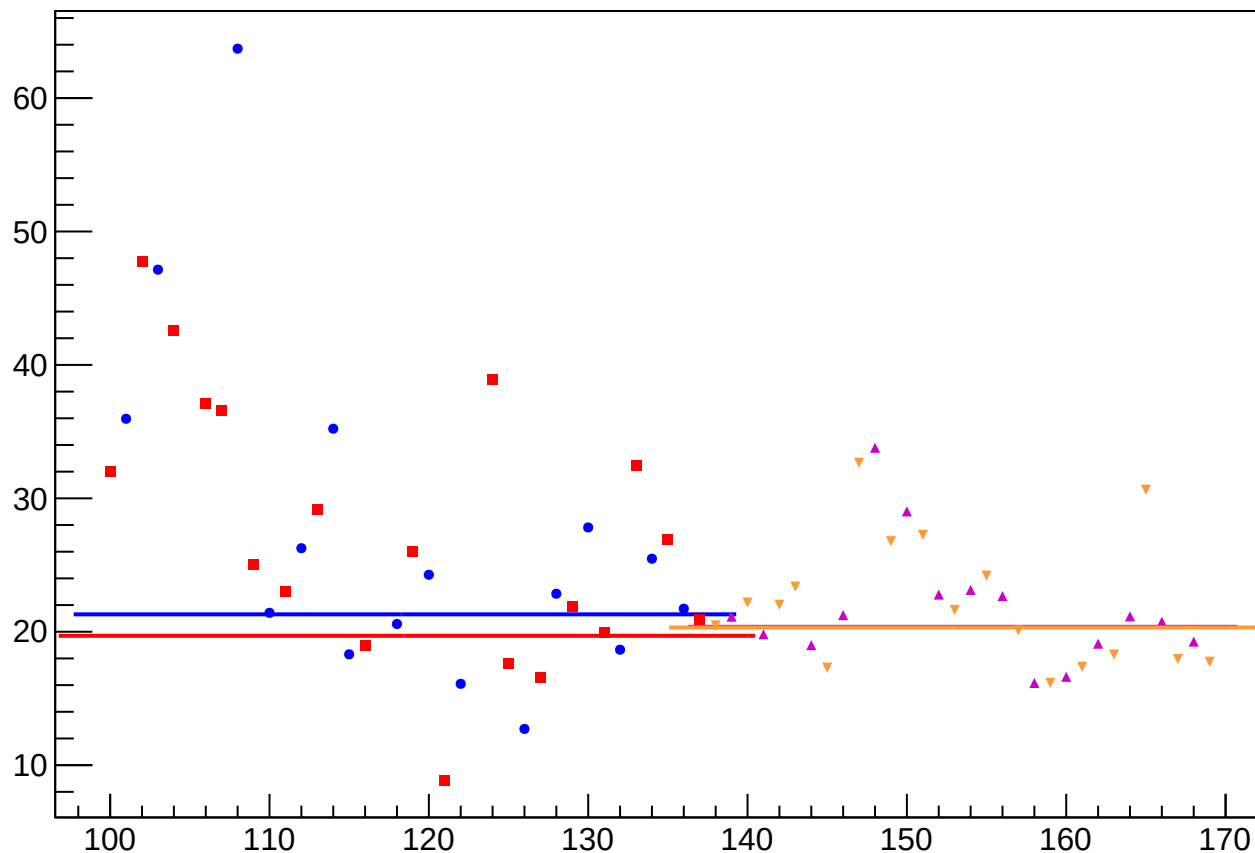
Right: -0.011 ± 0.006 χ^2/NDF : 24.9/34

In: -0.005 ± 0.005 χ^2/NDF : 24.8/30

Out: 0.008 ± 0.005 χ^2/NDF : 54.9/35

All: 0.002 ± 0.003 χ^2/NDF : 83.8/66

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 21.306 $\pm$ 0.006 χ^2 /NDF: 1479231.5/15

Left Out: 20.317 $\pm$ 0.004 χ^2 /NDF: 927027.9/16

Right Out: 19.698 $\pm$ 0.006 χ^2 /NDF: 2438612.4/18

Left In: 20.369 $\pm$ 0.004 χ^2 /NDF: 705322.5/14

Left: 20.342 $\pm$ 0.003 χ^2 /NDF: 1632431.7/31

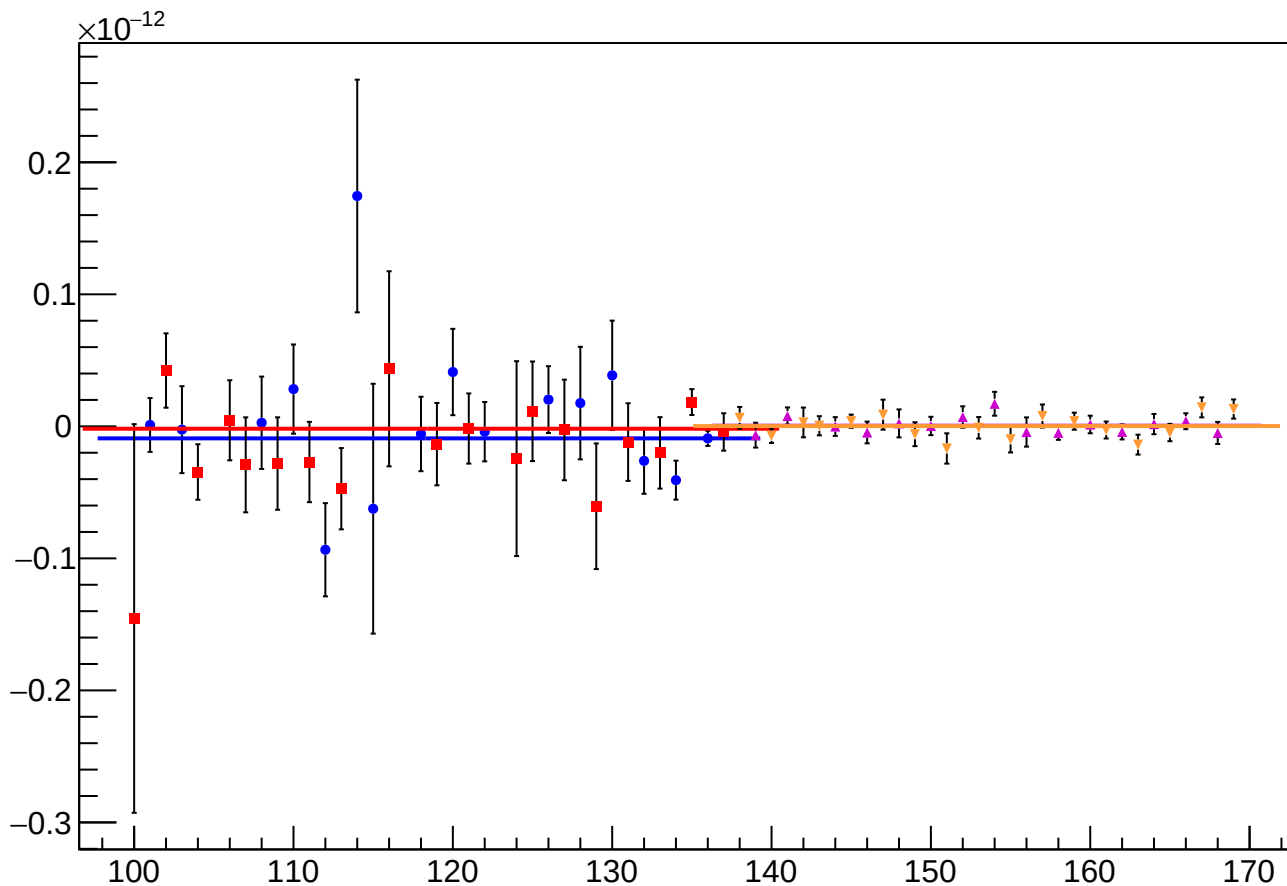
Right: 20.464 $\pm$ 0.004 χ^2 /NDF: 3954261.4/34

In: 20.675 $\pm$ 0.003 χ^2 /NDF: 2200428.9/30

Out: 20.114 $\pm$ 0.003 χ^2 /NDF: 3373265.2/35

All: 20.382 $\pm$ 0.002 χ^2 /NDF: 5587256.8/66

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 22.6/15

Left Out: 0.000+/-0.000 χ^2 /NDF:19.3/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 17.0/18

Left In: 0.000+/-0.000 χ^2 /NDF:9.0/14

Left: 0.000+/-0.000 χ^2 /NDF: 28.4/31

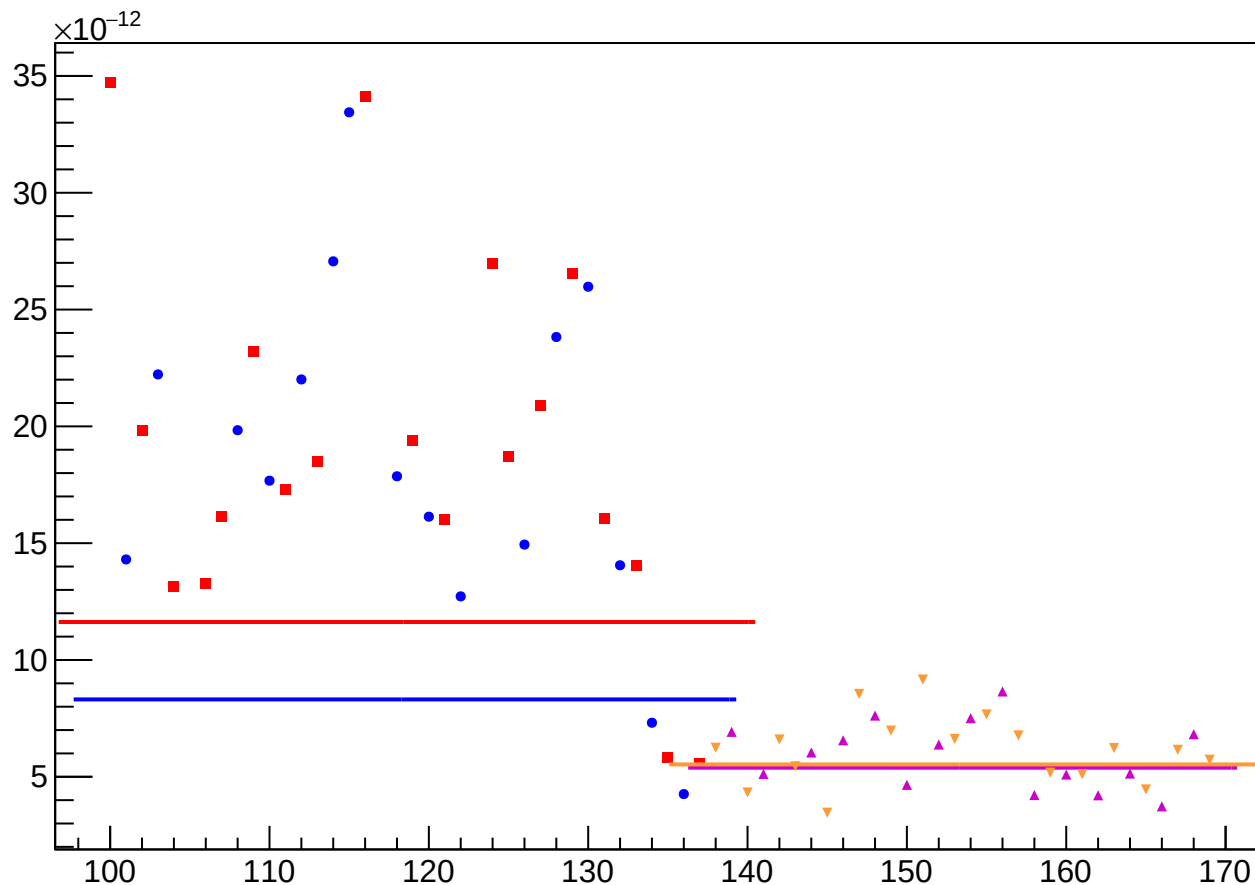
Right: -0.000+/-0.000 χ^2 /NDF: 40.6/34

In: -0.000+/-0.000 χ^2 /NDF:35.5/30

Out: 0.000+/-0.000 χ^2 /NDF:36.4/35

All: -0.000+/-0.000 χ^2 /NDF: 72.0/66

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3731754.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :1134813.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2610908.4/18

Left In: 0.000+/-0.000 χ^2/NDF :937944.2/14

Left: 0.000+/-0.000 χ^2/NDF : 2078453.7/31

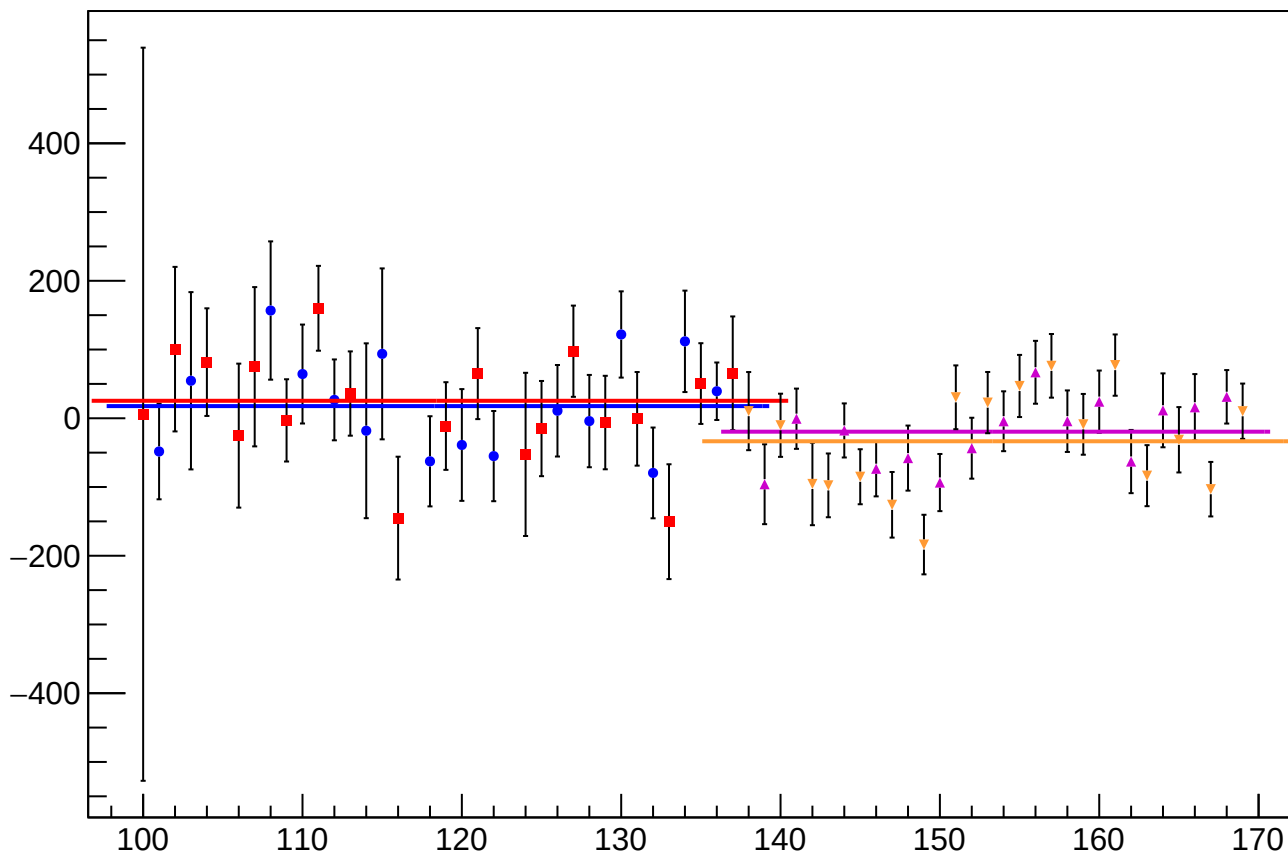
Right: 0.000+/-0.000 χ^2/NDF : 6760845.1/34

In: 0.000+/-0.000 χ^2/NDF :5388603.2/30

Out: 0.000+/-0.000 χ^2/NDF :5834991.0/35

All: 0.000+/-0.000 χ^2/NDF : 11246553.6/66

reg_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 17.701 ± 17.470 $\chi^2/\text{NDF}: 13.9/15$

Left Out: -33.459 ± 11.001 $\chi^2/\text{NDF}: 45.6/16$

Right Out: 25.440 ± 17.337 $\chi^2/\text{NDF}: 17.8/18$

Left In: -19.519 ± 11.533 $\chi^2/\text{NDF}: 16.0/14$

Left: -26.818 ± 7.960 $\chi^2/\text{NDF}: 62.4/31$

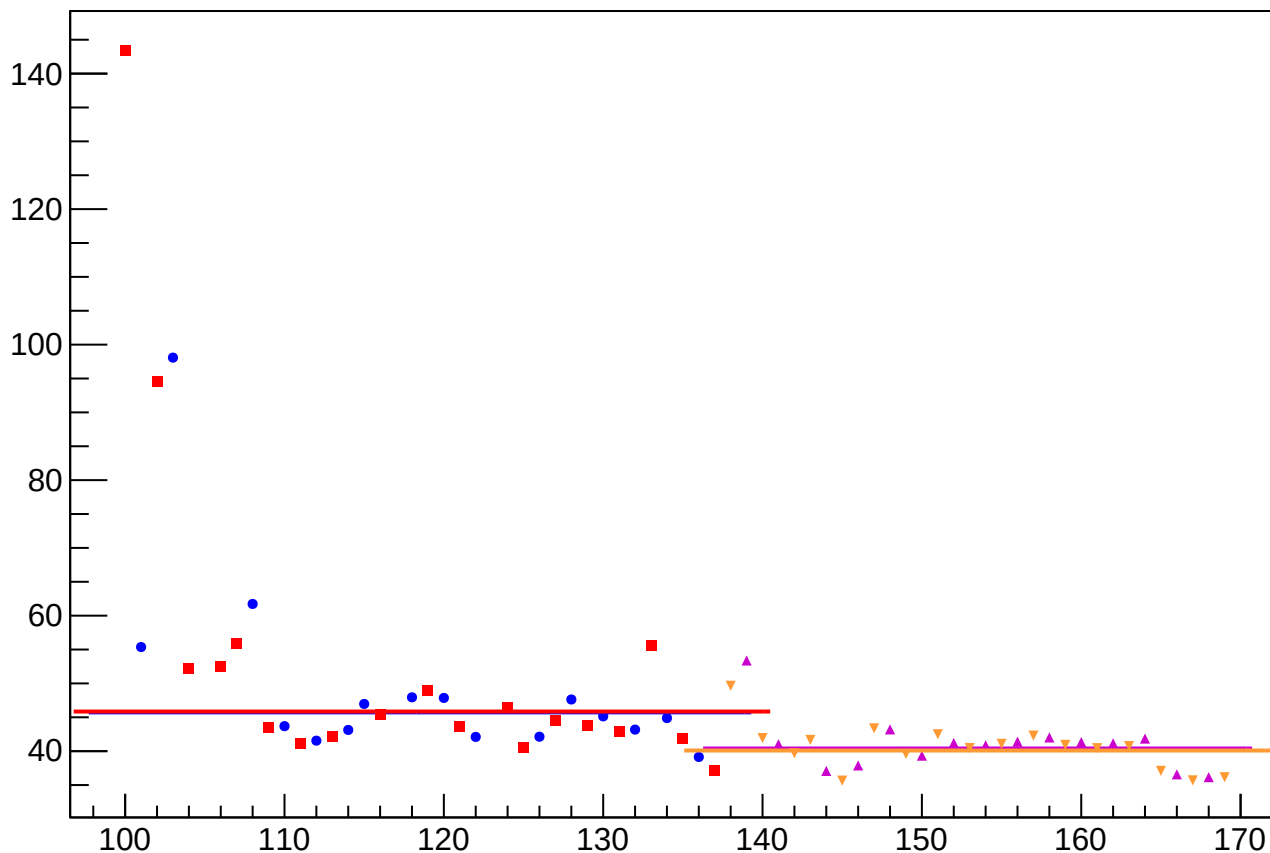
Right: 21.600 ± 12.306 $\chi^2/\text{NDF}: 31.9/34$

In: -8.221 ± 9.625 $\chi^2/\text{NDF}: 33.2/30$

Out: -16.552 ± 9.289 $\chi^2/\text{NDF}: 71.7/35$

All: -12.535 ± 6.684 $\chi^2/\text{NDF}: 105.2/66$

reg_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 45.727 $\pm$ 0.012 χ^2 /NDF: 501460.7/15

Left Out: 40.098 $\pm$ 0.008 χ^2 /NDF: 160483.8/16

Right Out: 45.849 $\pm$ 0.012 χ^2 /NDF: 540156.7/18

Left In: 40.395 $\pm$ 0.008 χ^2 /NDF: 174161.6/14

Left: 40.239 $\pm$ 0.006 χ^2 /NDF: 335343.5/31

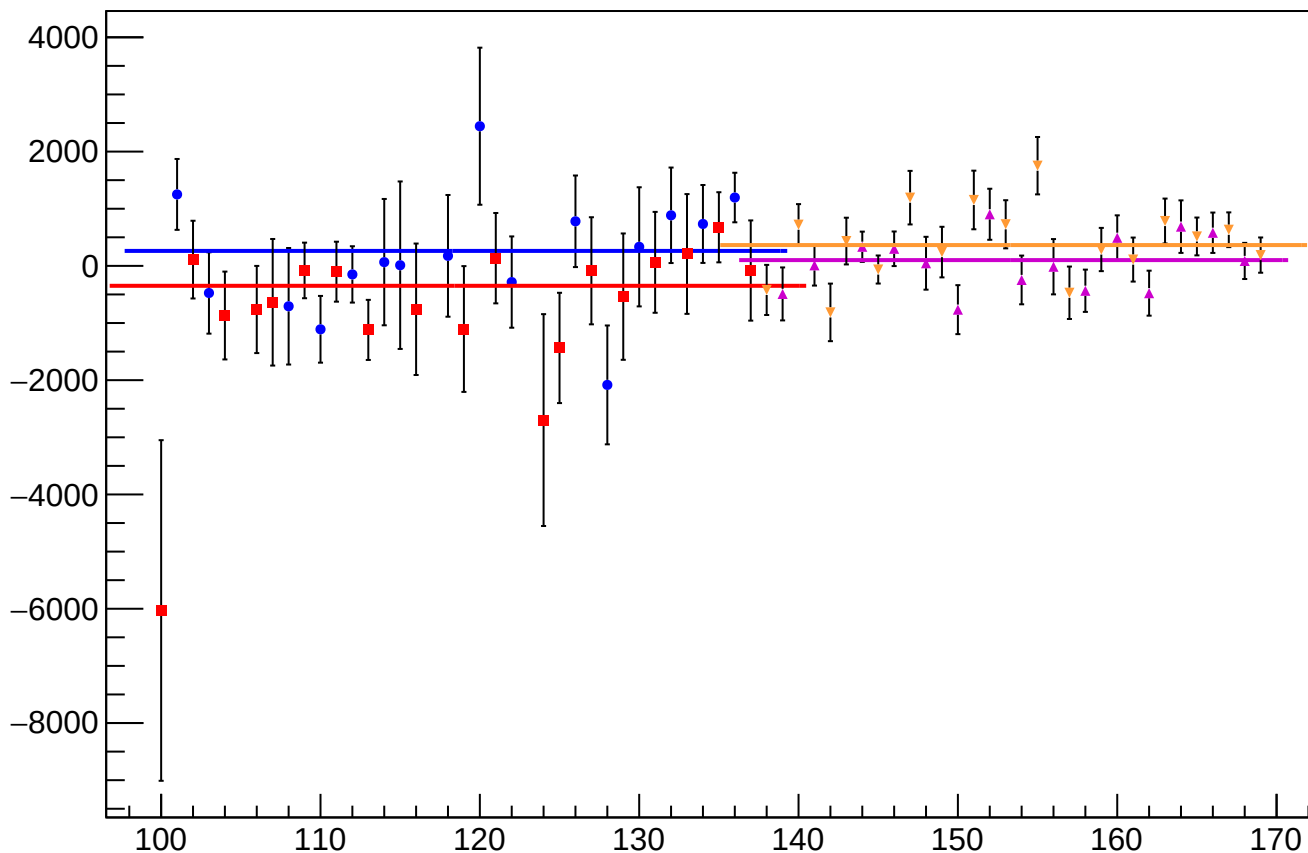
Right: 45.788 $\pm$ 0.009 χ^2 /NDF: 1041667.0/34

In: 42.014 $\pm$ 0.007 χ^2 /NDF: 805340.4/30

Out: 41.749 $\pm$ 0.007 χ^2 /NDF: 857579.8/35

All: 41.876 $\pm$ 0.005 χ^2 /NDF: 1663705.7/66

asym_sam_15_37_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 261.943 $\pm$ 185.211 χ^2/NDF : 25.0/15

Left Out: 364.087 $\pm$ 92.090 χ^2/NDF :32.9/16

Right Out: -348.685 $\pm$ 180.682 χ^2/NDF : 14.9/18

Left In: 101.084 $\pm$ 97.250 χ^2/NDF :19.7/14

Left: 239.748 $\pm$ 66.867 χ^2/NDF : 56.5/31

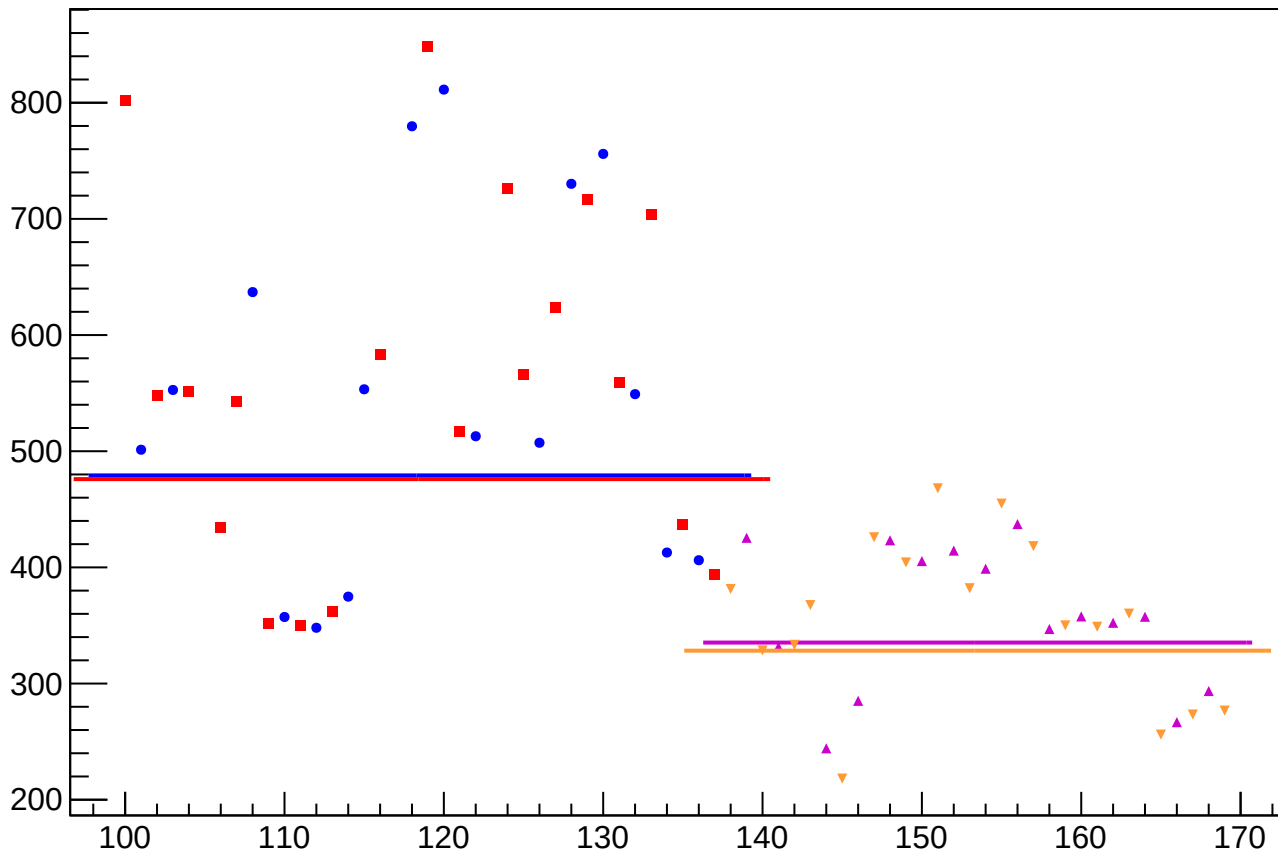
Right: -50.928 $\pm$ 129.333 χ^2/NDF : 45.5/34

In: 135.849 $\pm$ 86.102 χ^2/NDF :45.2/30

Out: 217.110 $\pm$ 82.047 χ^2/NDF :60.2/35

All: 178.438 $\pm$ 59.398 χ^2/NDF : 105.9/66

asym_sam_15_37_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 479.178 $\pm$ 0.131 χ^2 /NDF: 952693.7/15

Left Out: 328.314 $\pm$ 0.065 χ^2 /NDF:1223383.7/16

Right Out: 475.992 $\pm$ 0.128 χ^2 /NDF: 1006487.7/18

Left In: 335.287 $\pm$ 0.069 χ^2 /NDF:816931.1/14

Left: 331.610 $\pm$ 0.047 χ^2 /NDF: 2045736.6/31

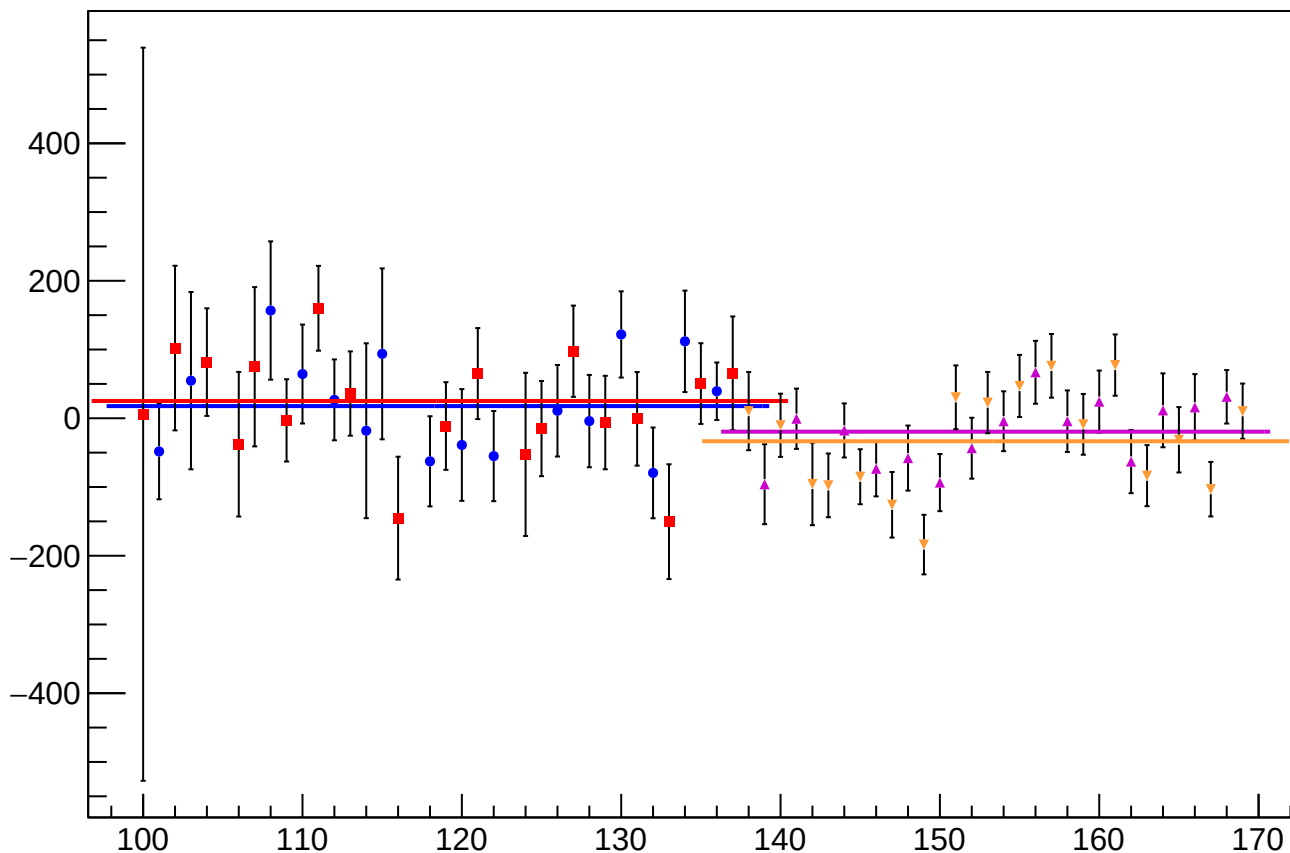
Right: 477.545 $\pm$ 0.091 χ^2 /NDF: 1959484.6/34

In: 366.385 $\pm$ 0.061 χ^2 /NDF:2715888.9/30

Out: 358.766 $\pm$ 0.058 χ^2 /NDF:3290447.9/35

All: 362.391 $\pm$ 0.042 χ^2 /NDF: 6014544.3/66

cor_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 17.706 ± 17.470 $\chi^2/\text{NDF}: 13.9/15$

Left Out: -33.460 ± 11.001 $\chi^2/\text{NDF}: 45.6/16$

Right Out: 25.145 ± 17.339 $\chi^2/\text{NDF}: 18.0/18$

Left In: -19.519 ± 11.533 $\chi^2/\text{NDF}: 16.1/14$

Left: -26.819 ± 7.960 $\chi^2/\text{NDF}: 62.4/31$

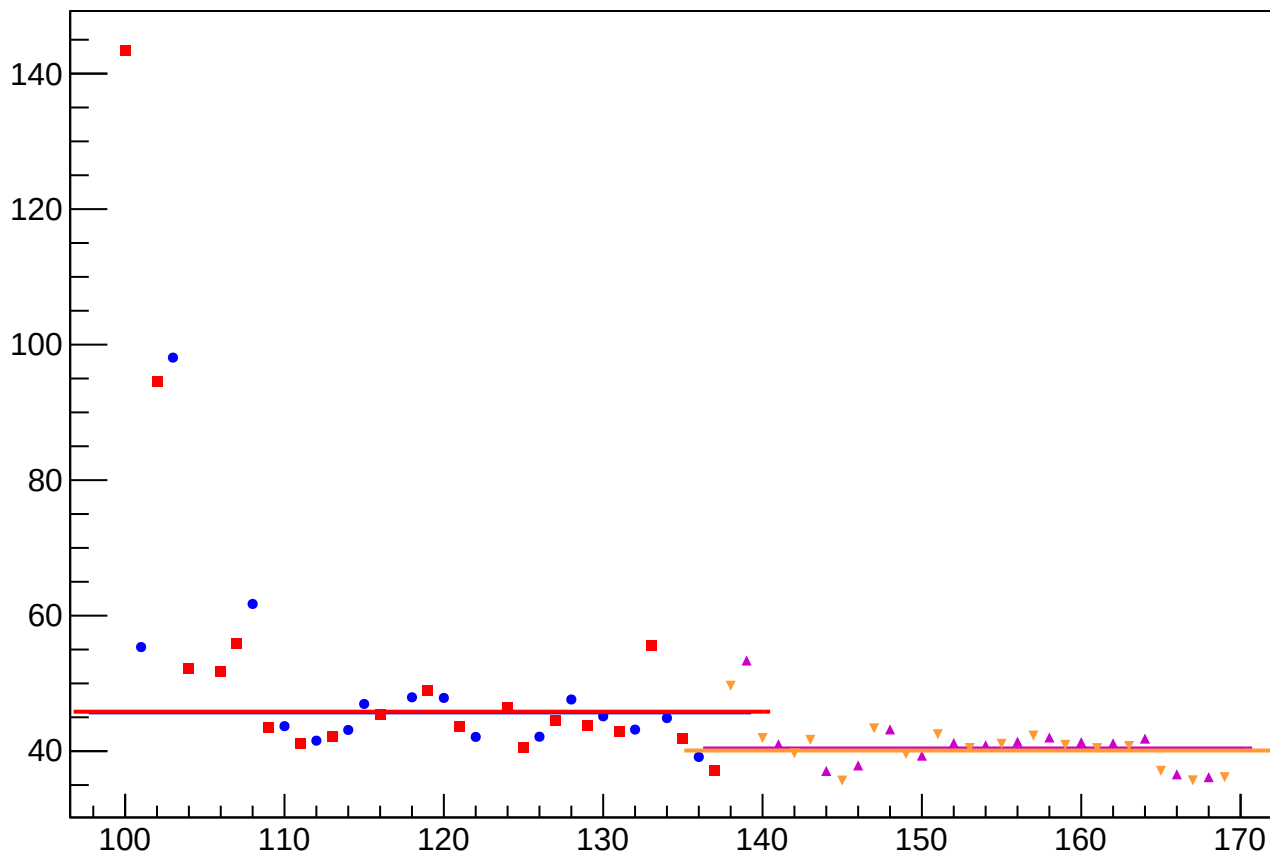
Right: 21.453 ± 12.307 $\chi^2/\text{NDF}: 32.0/34$

In: -8.220 ± 9.625 $\chi^2/\text{NDF}: 33.2/30$

Out: -16.641 ± 9.289 $\chi^2/\text{NDF}: 71.7/35$

All: -12.580 ± 6.684 $\chi^2/\text{NDF}: 105.3/66$

cor_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 45.727 $\pm$ 0.012 χ^2 /NDF: 501463.8/15

Left Out: 40.098 $\pm$ 0.008 χ^2 /NDF: 160483.8/16

Right Out: 45.825 $\pm$ 0.012 χ^2 /NDF: 538470.5/18

Left In: 40.395 $\pm$ 0.008 χ^2 /NDF: 174161.6/14

Left: 40.239 $\pm$ 0.006 χ^2 /NDF: 335343.5/31

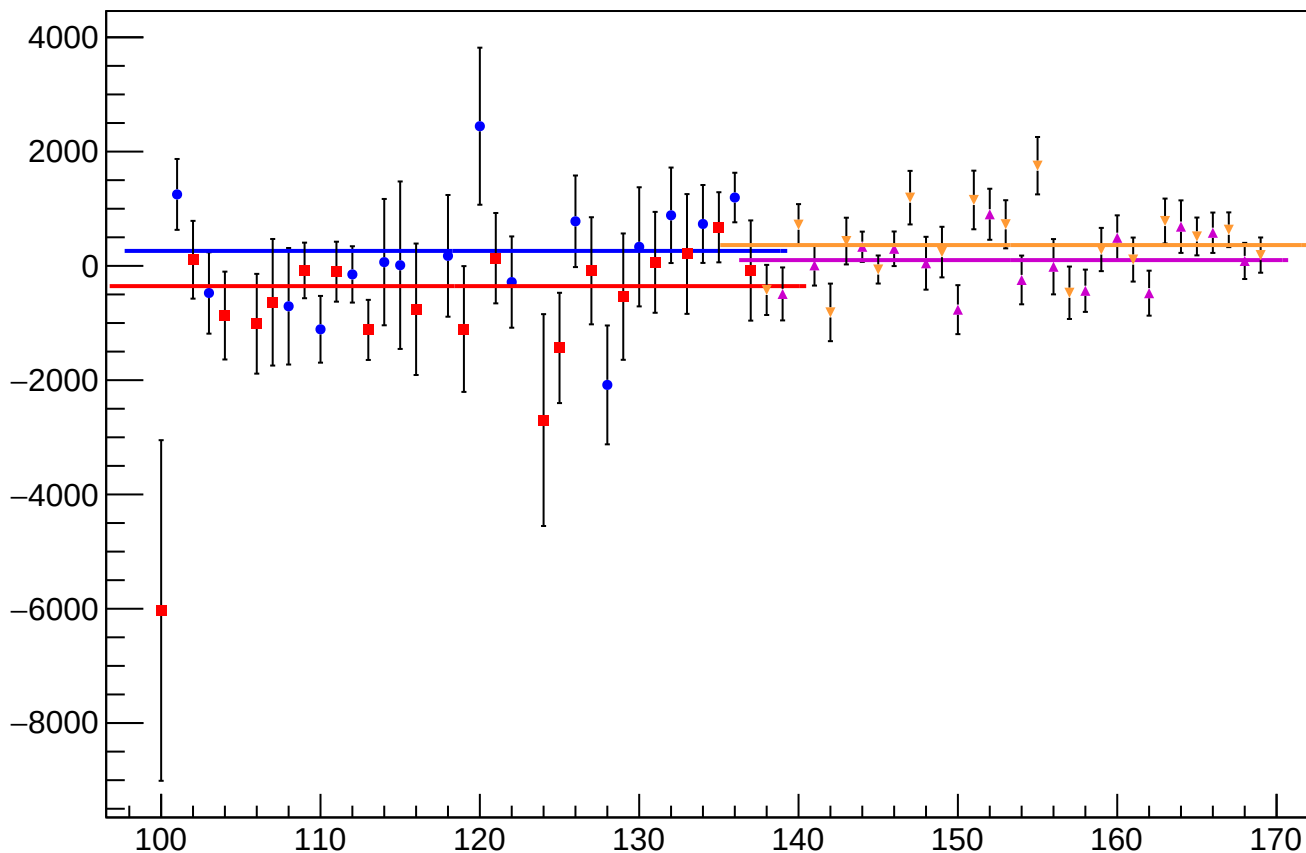
Right: 45.776 $\pm$ 0.009 χ^2 /NDF: 1039966.5/34

In: 42.014 $\pm$ 0.007 χ^2 /NDF: 805343.3/30

Out: 41.741 $\pm$ 0.007 χ^2 /NDF: 854565.1/35

All: 41.873 $\pm$ 0.005 χ^2 /NDF: 1660736.9/66

asym_sam_15_37_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 261.947 $\pm$ 185.212 χ^2 /NDF: 25.0/15

Left Out: 364.085 $\pm$ 92.090 χ^2 /NDF:32.9/16

Right Out: -354.204 $\pm$ 181.903 χ^2 /NDF: 15.2/18

Left In: 101.085 $\pm$ 97.250 χ^2 /NDF:19.7/14

Left: 239.747 $\pm$ 66.867 χ^2 /NDF: 56.5/31

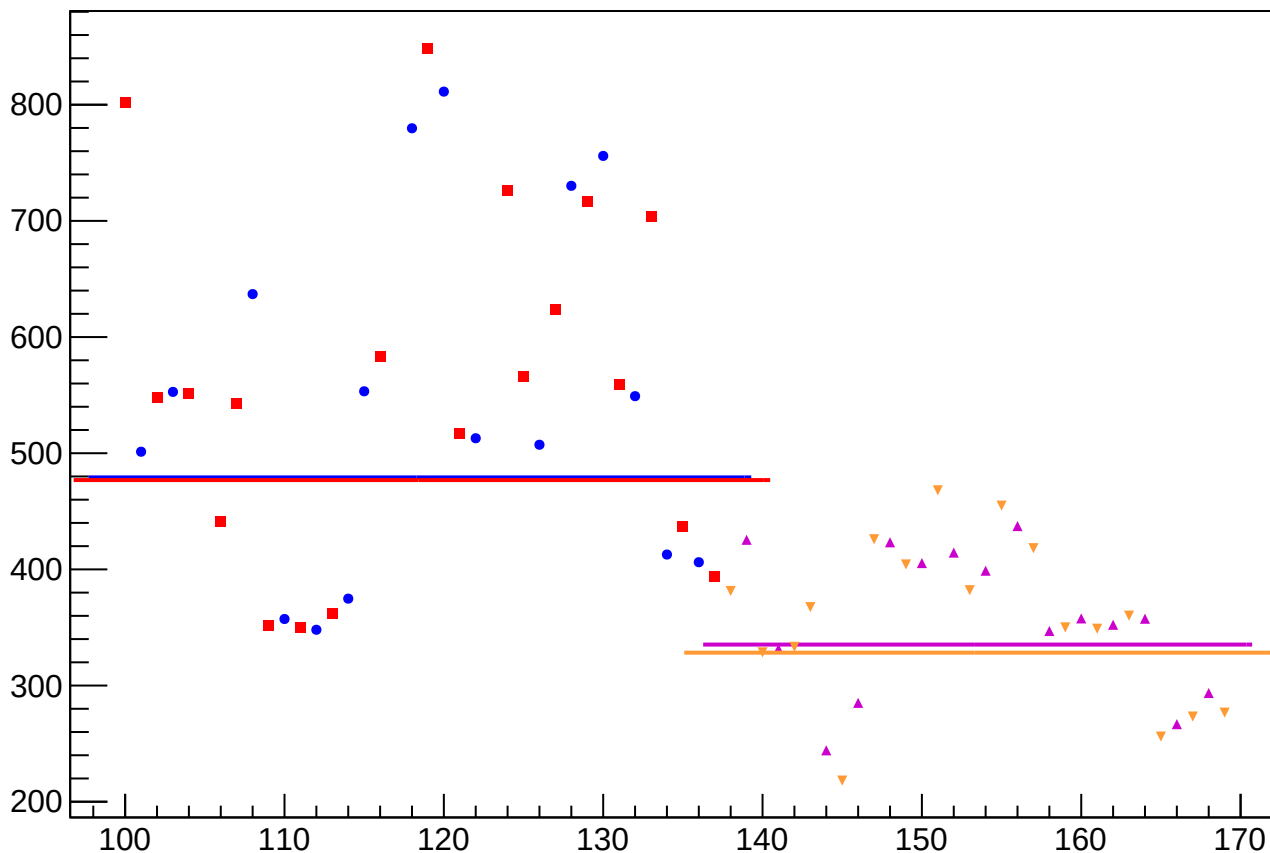
Right: -51.682 $\pm$ 129.779 χ^2 /NDF: 45.8/34

In: 135.850 $\pm$ 86.102 χ^2 /NDF:45.2/30

Out: 217.547 $\pm$ 82.161 χ^2 /NDF:60.6/35

All: 178.611 $\pm$ 59.441 χ^2 /NDF: 106.3/66

asym_sam_15_37_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 479.180+/-0.131 χ^2/NDF : 952722.6/15

Left Out: 328.313+/-0.065 χ^2/NDF : 1223383.2/16

Right Out: 476.893+/-0.129 χ^2/NDF : 1003767.4/18

Left In: 335.287+/-0.069 χ^2/NDF : 816932.2/14

Left: 331.610+/-0.047 χ^2/NDF : 2045737.4/31

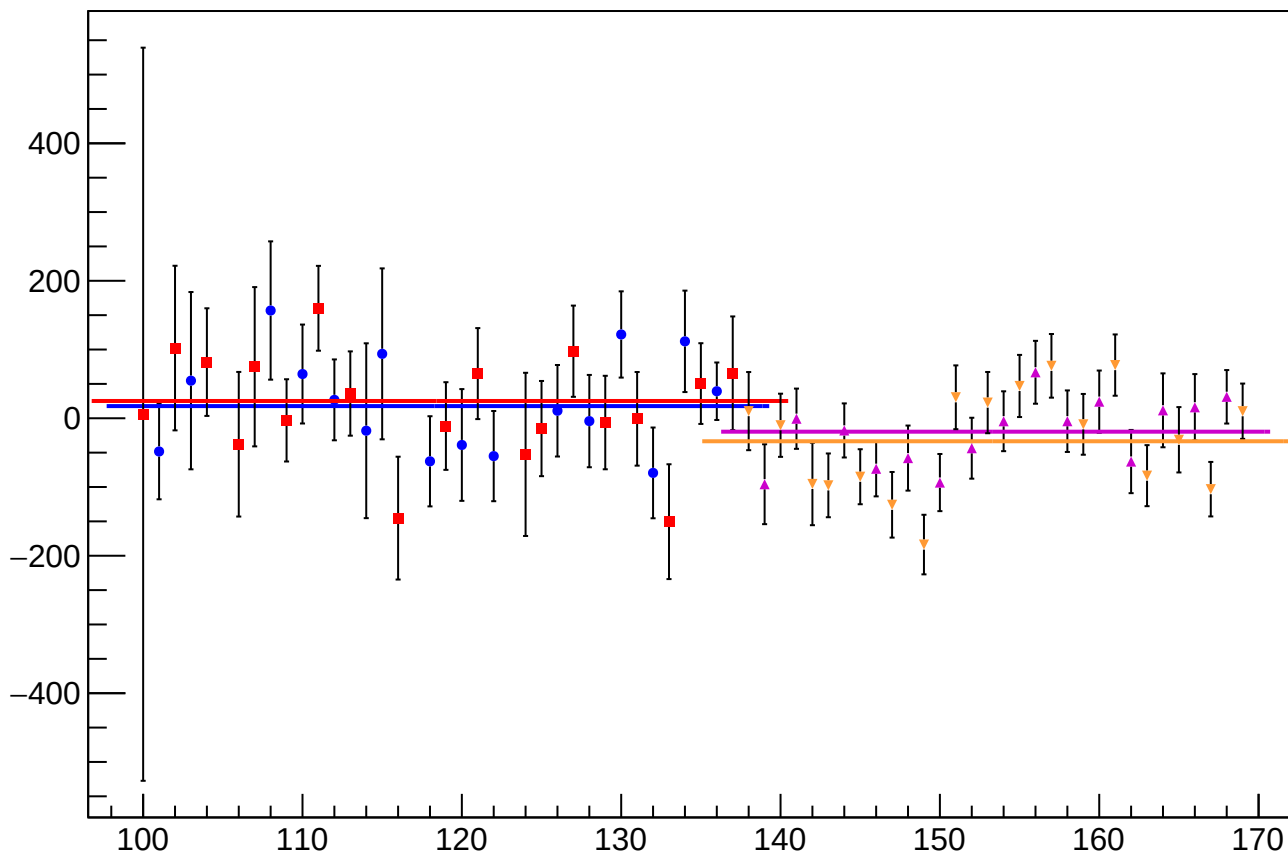
Right: 478.016+/-0.092 χ^2/NDF : 1956645.2/34

In: 366.385+/-0.061 χ^2/NDF : 2715937.3/30

Out: 358.625+/-0.058 χ^2/NDF : 3289277.6/35

All: 362.323+/-0.042 χ^2/NDF : 6013717.3/66

eigen_cor_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 17.706 $\pm$ 17.470 χ^2 /NDF: 13.9/15

Left Out: -33.460 $\pm$ 11.001 χ^2 /NDF:45.6/16

Right Out: 25.145 $\pm$ 17.339 χ^2 /NDF: 18.0/18

Left In: -19.519 $\pm$ 11.533 χ^2 /NDF:16.1/14

Left: -26.819 $\pm$ 7.960 χ^2 /NDF: 62.4/31

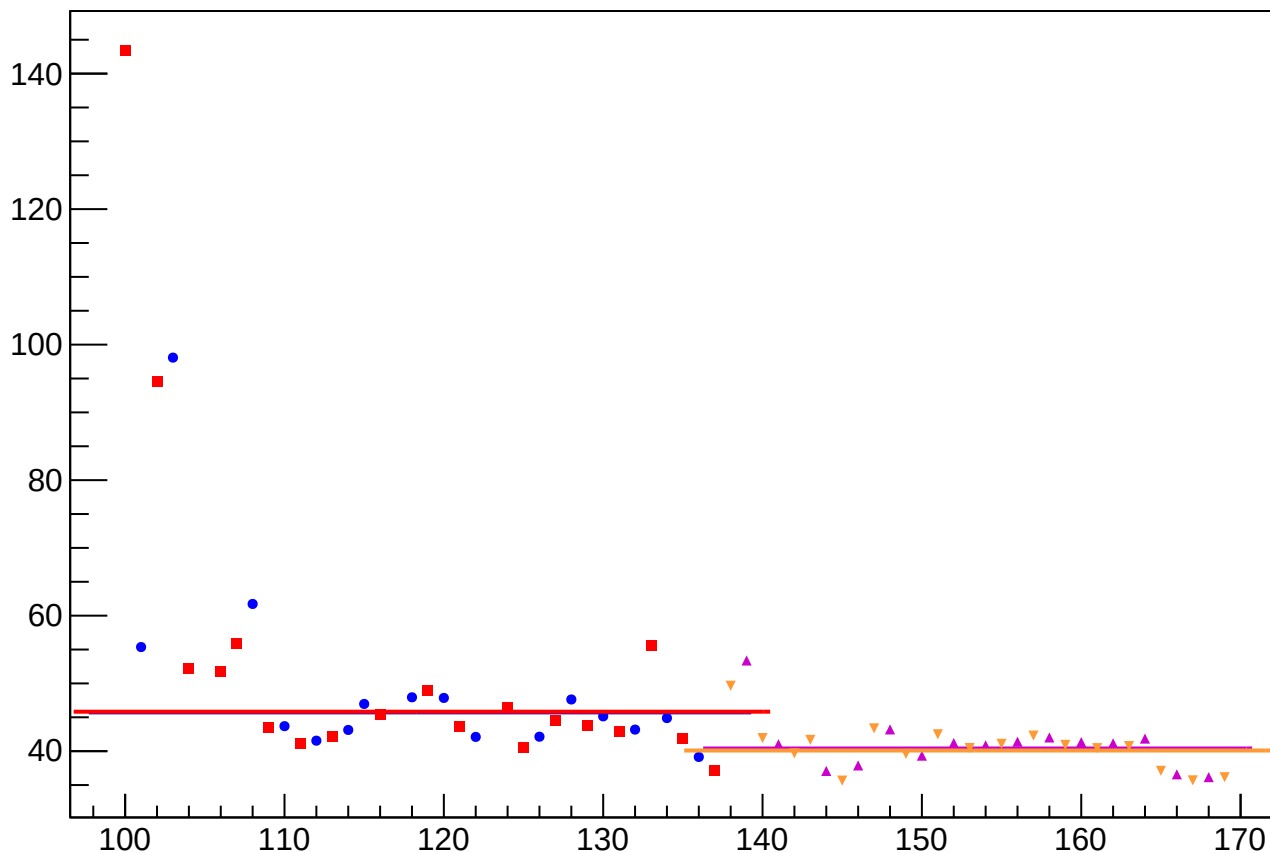
Right: 21.453 $\pm$ 12.307 χ^2 /NDF: 32.0/34

In: -8.220 $\pm$ 9.625 χ^2 /NDF:33.2/30

Out: -16.641 $\pm$ 9.289 χ^2 /NDF:71.7/35

All: -12.580 $\pm$ 6.684 χ^2 /NDF: 105.3/66

eigen_cor_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 45.727 $\pm$ 0.012 χ^2 /NDF: 501463.8/15

Left Out: 40.098 $\pm$ 0.008 χ^2 /NDF:160483.8/16

Right Out: 45.825 $\pm$ 0.012 χ^2 /NDF: 538470.5/18

Left In: 40.395 $\pm$ 0.008 χ^2 /NDF:174161.6/14

Left: 40.239 $\pm$ 0.006 χ^2 /NDF: 335343.5/31

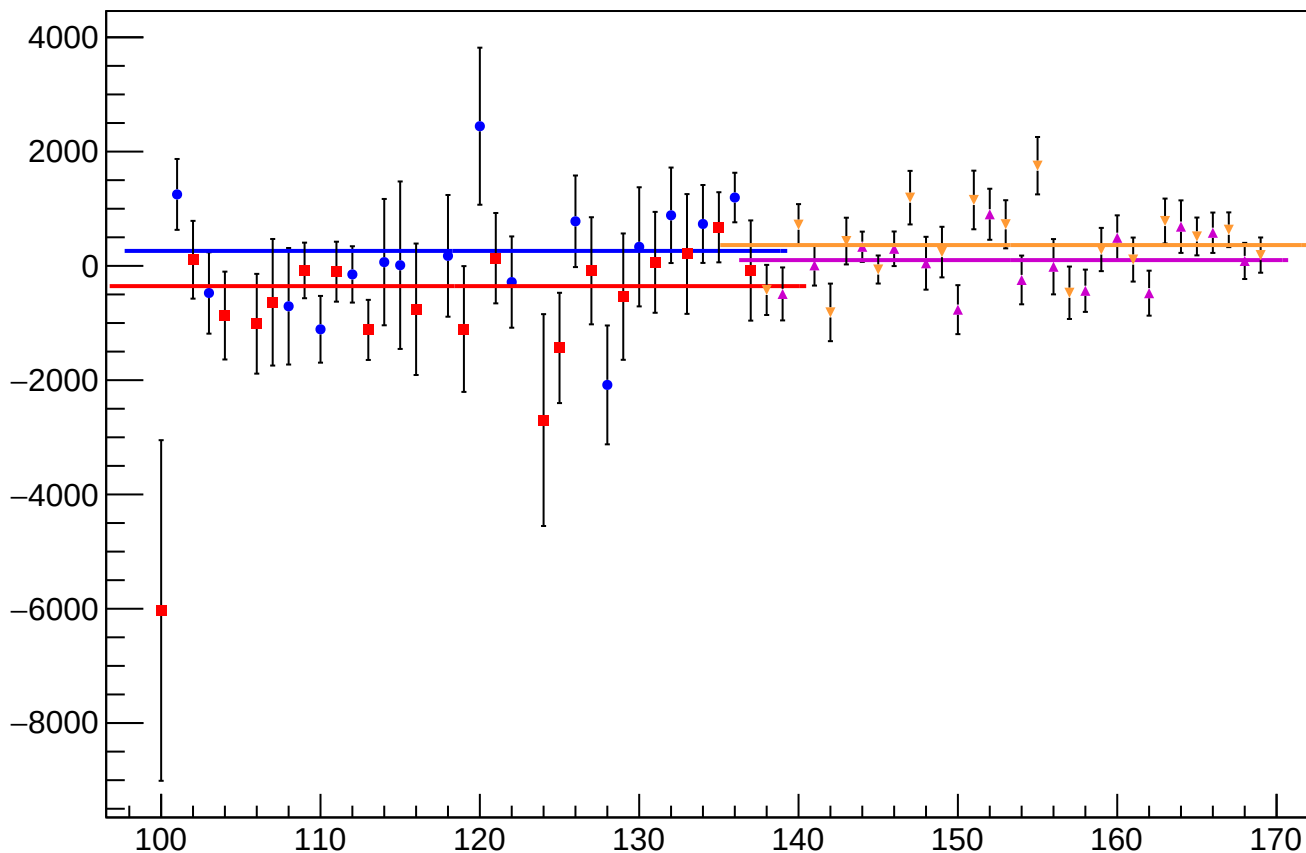
Right: 45.776 $\pm$ 0.009 χ^2 /NDF: 1039966.5/34

In: 42.014 $\pm$ 0.007 χ^2 /NDF:805343.3/30

Out: 41.741 $\pm$ 0.007 χ^2 /NDF:854565.1/35

All: 41.873 $\pm$ 0.005 χ^2 /NDF: 1660736.9/66

asym_sam_15_37_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 261.947 $\pm$ 185.212 χ^2 /NDF: 25.0/15

Left Out: 364.085 $\pm$ 92.090 χ^2 /NDF:32.9/16

Right Out: -354.204 $\pm$ 181.903 χ^2 /NDF: 15.2/18

Left In: 101.085 $\pm$ 97.250 χ^2 /NDF:19.7/14

Left: 239.747 $\pm$ 66.867 χ^2 /NDF: 56.5/31

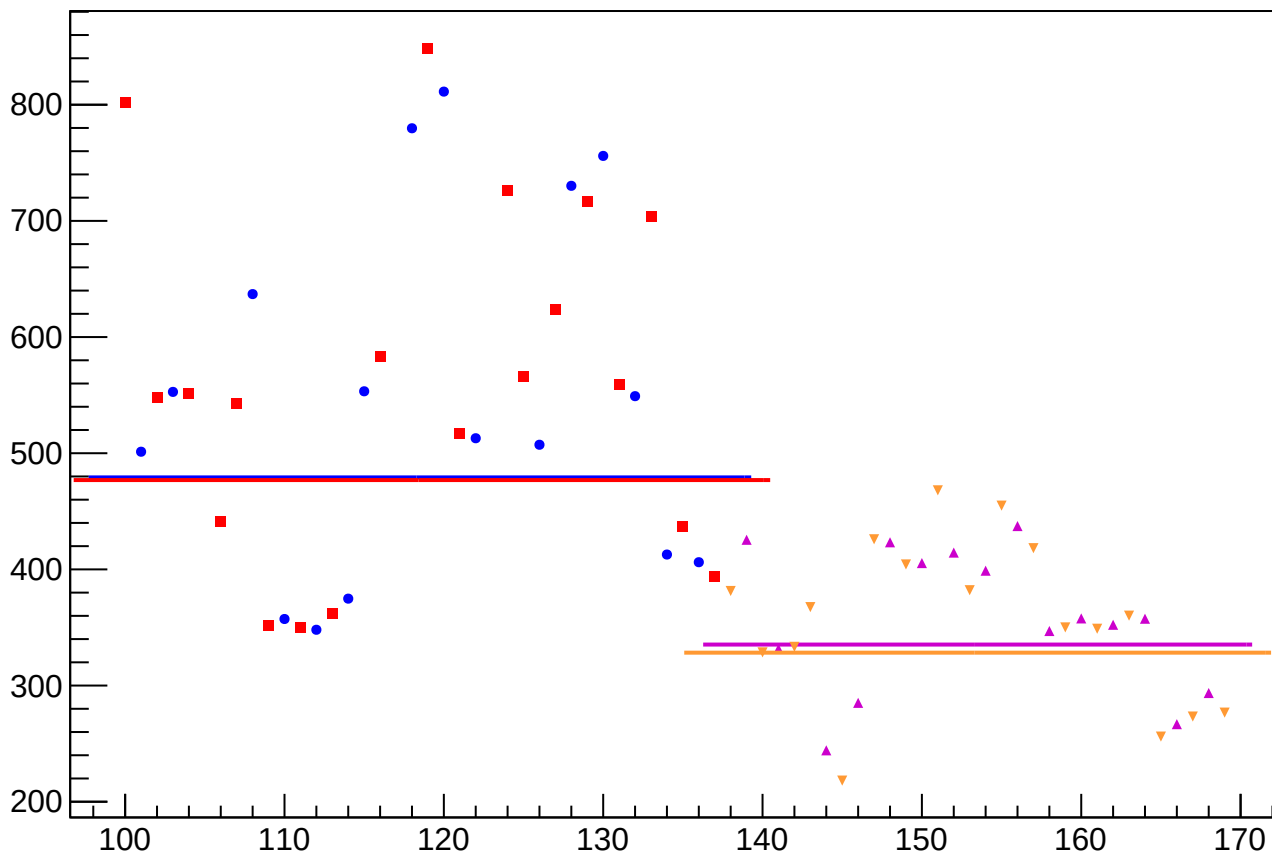
Right: -51.682 $\pm$ 129.779 χ^2 /NDF: 45.8/34

In: 135.850 $\pm$ 86.102 χ^2 /NDF:45.2/30

Out: 217.547 $\pm$ 82.161 χ^2 /NDF:60.6/35

All: 178.611 $\pm$ 59.441 χ^2 /NDF: 106.3/66

asym_sam_15_37_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 479.180 $\pm$ 0.131 χ^2 /NDF: 952722.6/15

Left Out: 328.313 $\pm$ 0.065 χ^2 /NDF:1223383.2/16

Right Out: 476.893 $\pm$ 0.129 χ^2 /NDF: 1003767.4/18

Left In: 335.287 $\pm$ 0.069 χ^2 /NDF:816932.2/14

Left: 331.610 $\pm$ 0.047 χ^2 /NDF: 2045737.4/31

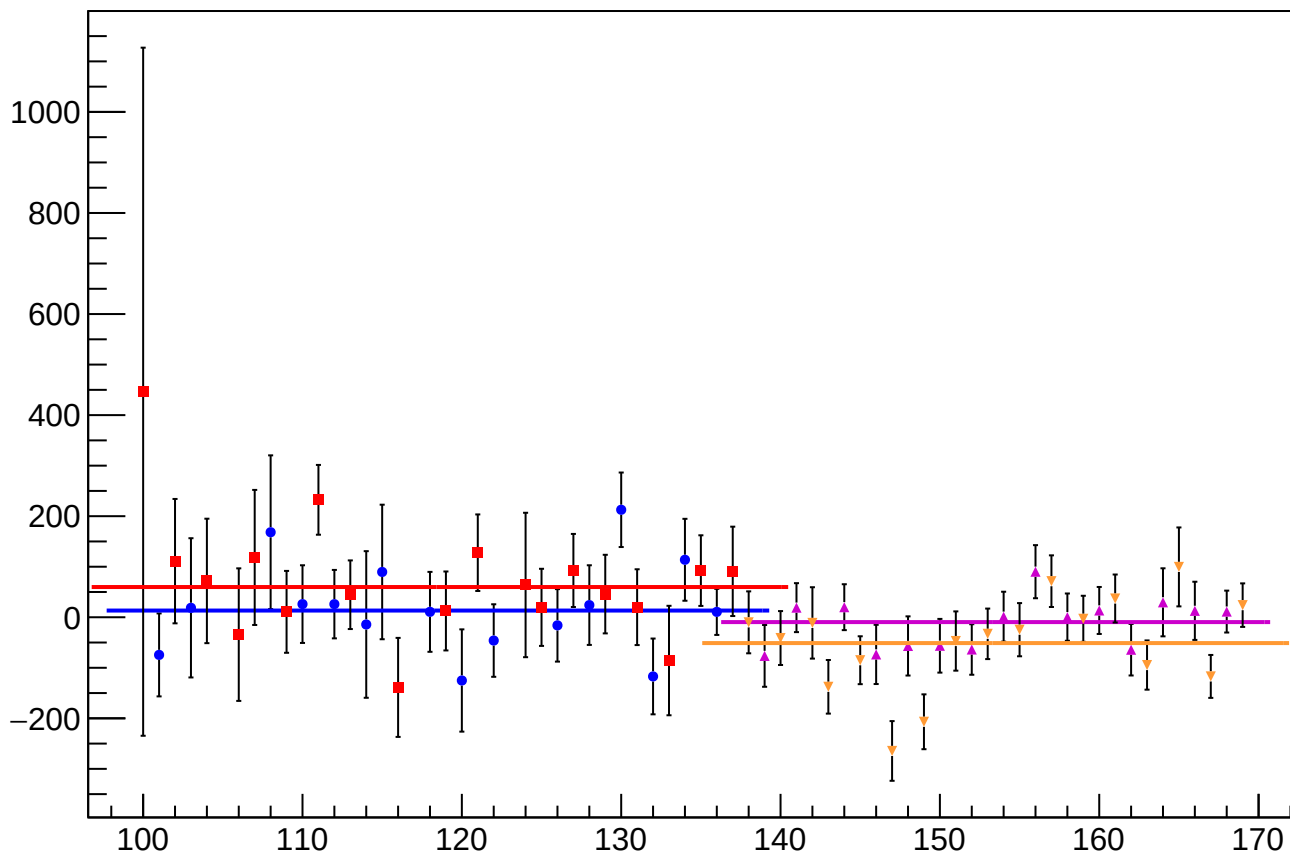
Right: 478.016 $\pm$ 0.092 χ^2 /NDF: 1956645.2/34

In: 366.385 $\pm$ 0.061 χ^2 /NDF:2715937.3/30

Out: 358.625 $\pm$ 0.058 χ^2 /NDF:3289277.6/35

All: 362.323 $\pm$ 0.042 χ^2 /NDF: 6013717.3/66

dit_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 13.266 ± 19.849 $\chi^2/\text{NDF}: 17.2/15$

Left Out: -51.098 ± 12.615 $\chi^2/\text{NDF}: 45.9/16$

Right Out: 59.810 ± 20.234 $\chi^2/\text{NDF}: 16.1/18$

Left In: -9.572 ± 13.249 $\chi^2/\text{NDF}: 11.6/14$

Left: -31.352 ± 9.136 $\chi^2/\text{NDF}: 62.7/31$

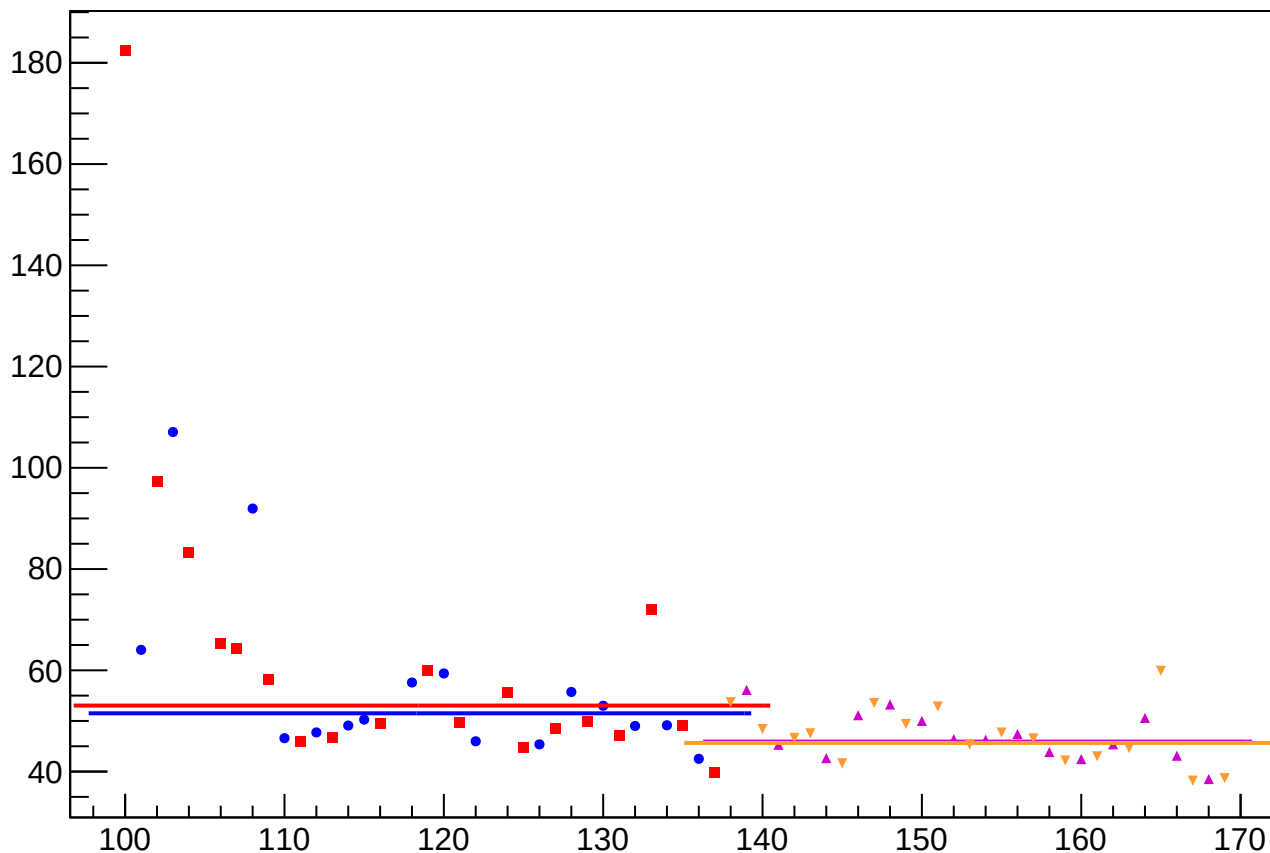
Right: 36.091 ± 14.170 $\chi^2/\text{NDF}: 36.0/34$

In: -2.533 ± 11.019 $\chi^2/\text{NDF}: 29.7/30$

Out: -20.054 ± 10.705 $\chi^2/\text{NDF}: 83.7/35$

All: -11.547 ± 7.678 $\chi^2/\text{NDF}: 114.7/66$

dit_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 51.506 ± 0.014 χ^2/NDF : 667059.0/15

Left Out: 45.651 ± 0.009 χ^2/NDF : 334970.3/16

Right Out: 53.037 ± 0.014 χ^2/NDF : 712908.4/18

Left In: 45.921 ± 0.009 χ^2/NDF : 220476.6/14

Left: 45.779 ± 0.006 χ^2/NDF : 555883.1/31

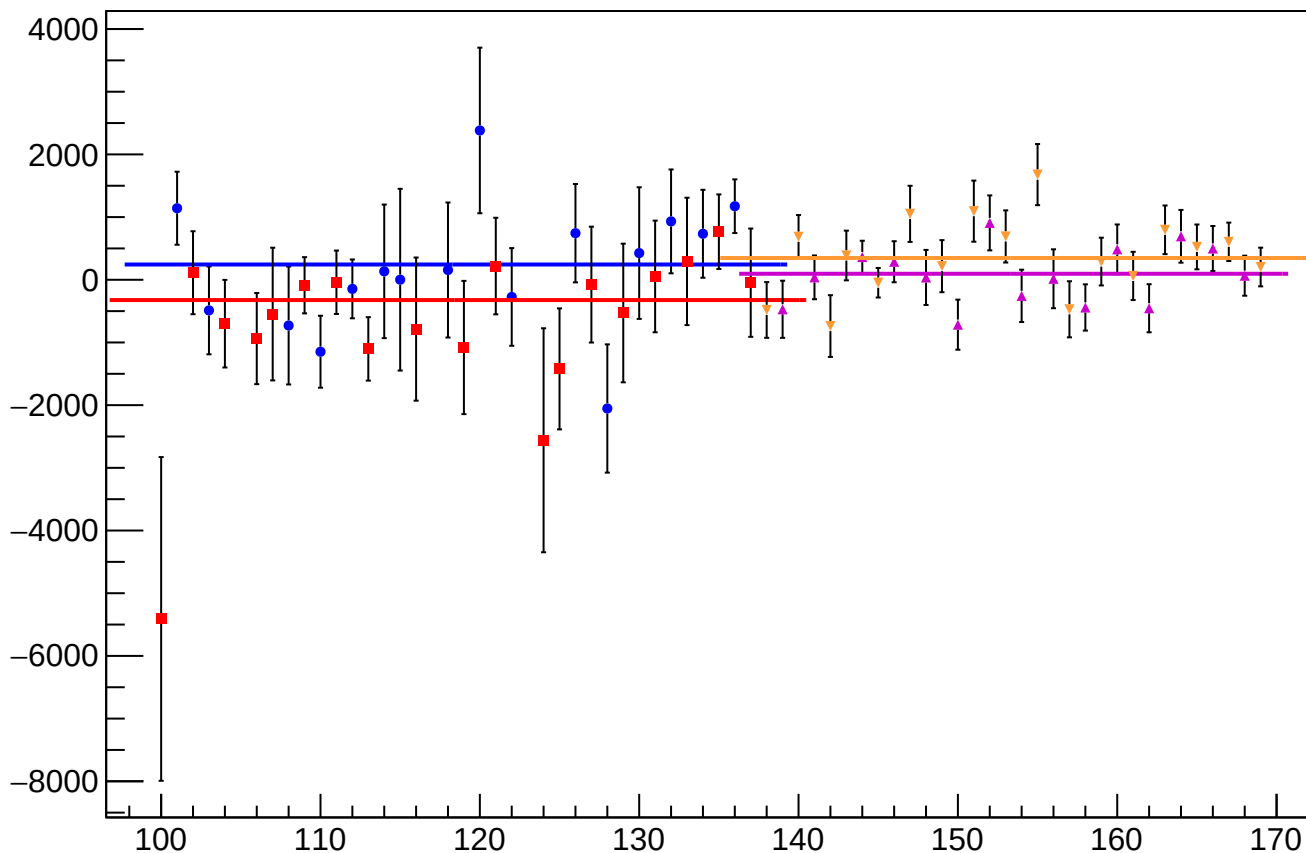
Right: 52.257 ± 0.010 χ^2/NDF : 1385808.8/34

In: 47.642 ± 0.008 χ^2/NDF : 997061.8/30

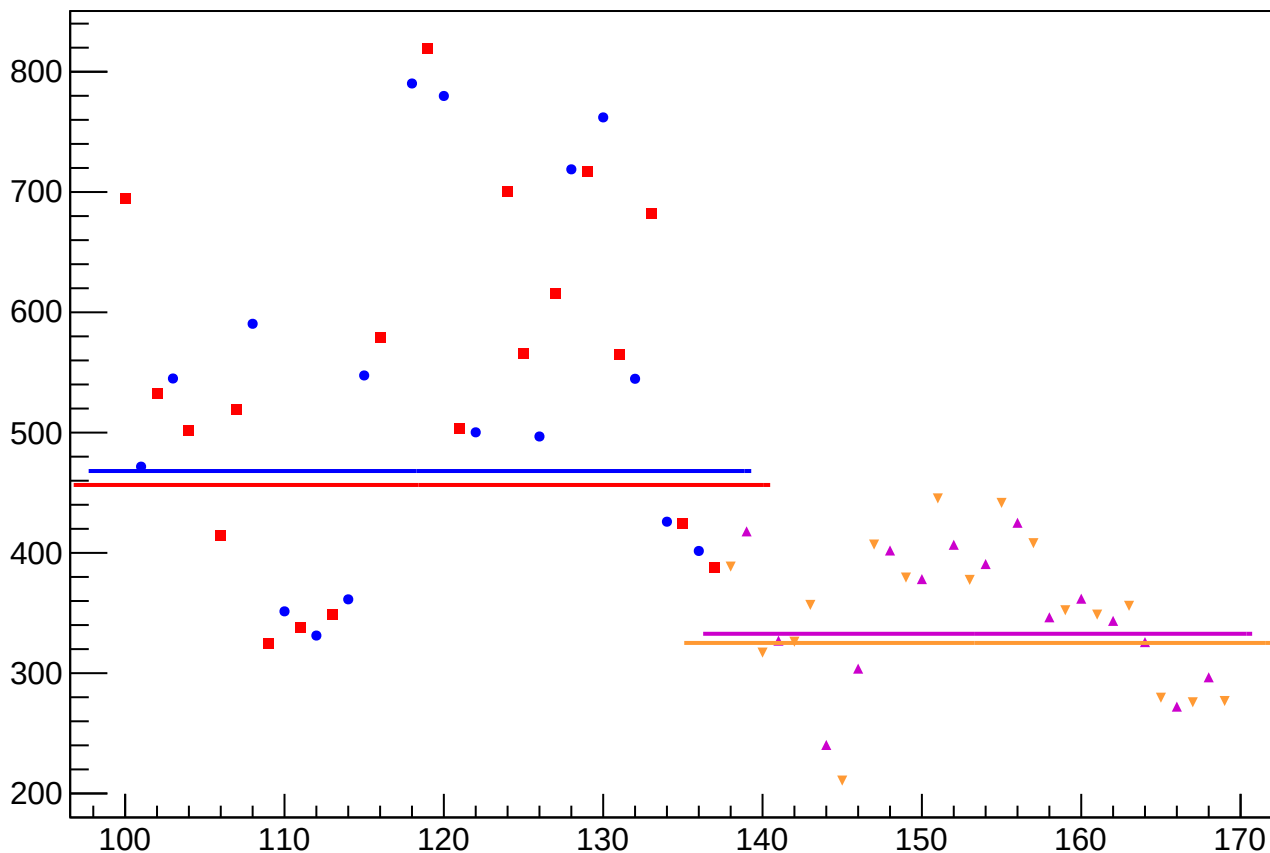
Out: 47.718 ± 0.008 χ^2/NDF : 1239815.8/35

All: 47.681 ± 0.005 χ^2/NDF : 2236926.7/66

asym_sam_15_37_dd_dit_correction_mean vs Slug, Sign Corrected



asym_sam_15_37_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 468.066+/-0.128 χ^2/NDF : 982915.0/15

Left Out: 325.145+/-0.064 χ^2/NDF : 1125967.9/16

Right Out: 456.468+/-0.123 χ^2/NDF : 1082568.2/18

Left In: 332.753+/-0.068 χ^2/NDF : 685724.0/14

Left: 328.729+/-0.047 χ^2/NDF : 1818293.5/31

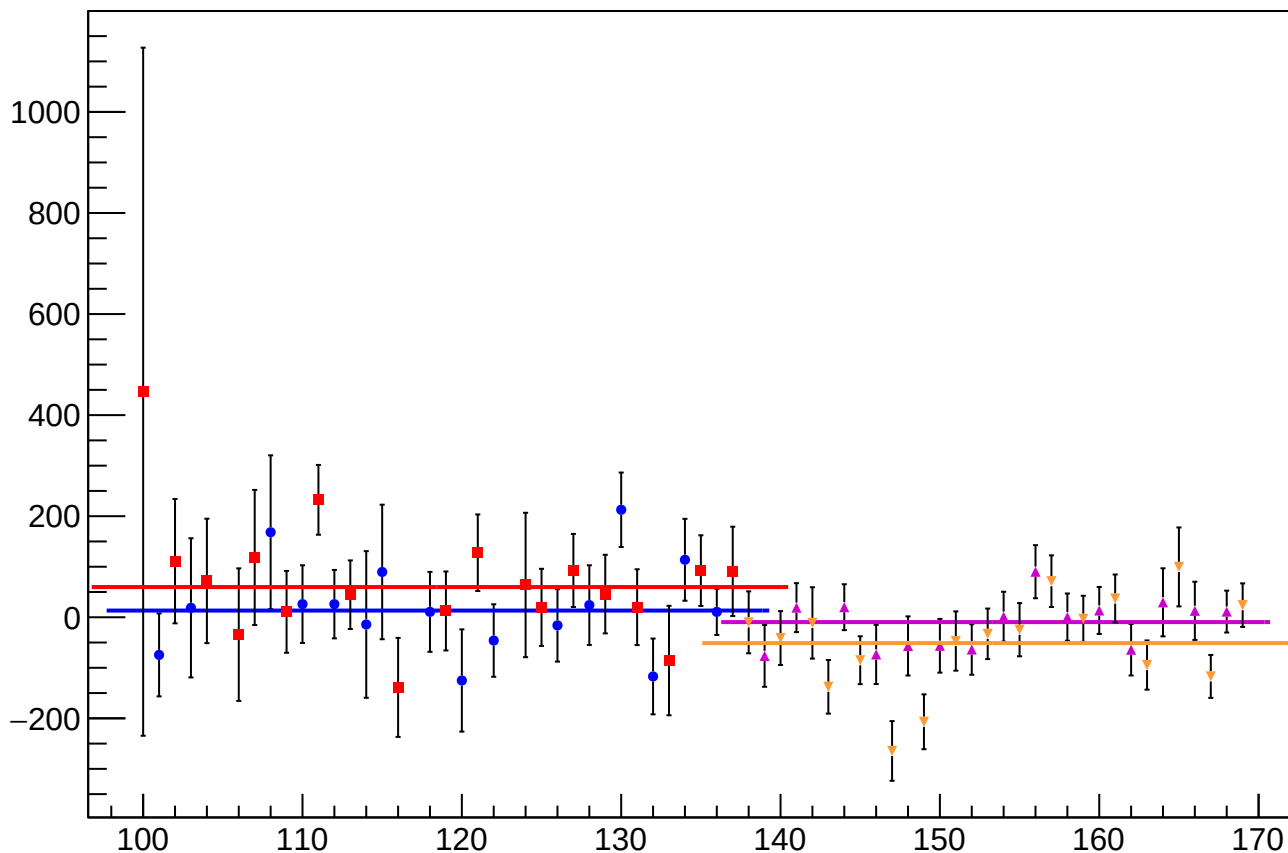
Right: 462.030+/-0.089 χ^2/NDF : 2069762.6/34

In: 362.641+/-0.060 χ^2/NDF : 2540745.7/30

Out: 353.383+/-0.057 χ^2/NDF : 3106598.0/35

All: 357.761+/-0.041 χ^2/NDF : 5659847.2/66

eigen_dit_asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: 13.266 ± 19.849 $\chi^2/\text{NDF}: 17.2/15$

Left Out: -51.098 ± 12.615 $\chi^2/\text{NDF}: 45.9/16$

Right Out: 59.811 ± 20.234 $\chi^2/\text{NDF}: 16.1/18$

Left In: -9.572 ± 13.249 $\chi^2/\text{NDF}: 11.6/14$

Left: -31.352 ± 9.136 $\chi^2/\text{NDF}: 62.7/31$

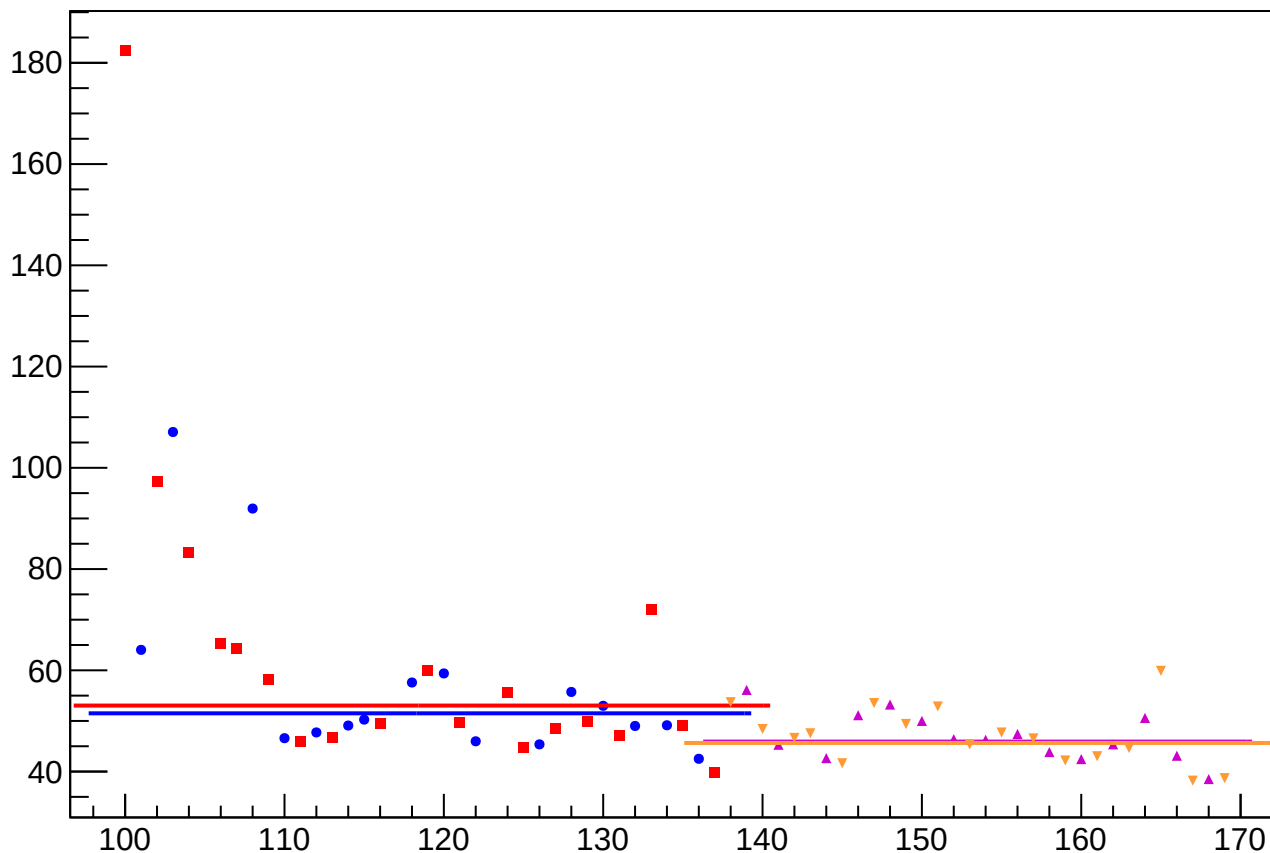
Right: 36.092 ± 14.170 $\chi^2/\text{NDF}: 36.0/34$

In: -2.533 ± 11.019 $\chi^2/\text{NDF}: 29.7/30$

Out: -20.054 ± 10.705 $\chi^2/\text{NDF}: 83.7/35$

All: -11.547 ± 7.678 $\chi^2/\text{NDF}: 114.7/66$

eigen_dit_asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 51.506+/-0.014 χ^2/NDF : 667064.6/15

Left Out: 45.651+/-0.009 χ^2/NDF : 334973.4/16

Right Out: 53.037+/-0.014 χ^2/NDF : 712918.4/18

Left In: 45.921+/-0.009 χ^2/NDF : 220478.3/14

Left: 45.779+/-0.006 χ^2/NDF : 555887.8/31

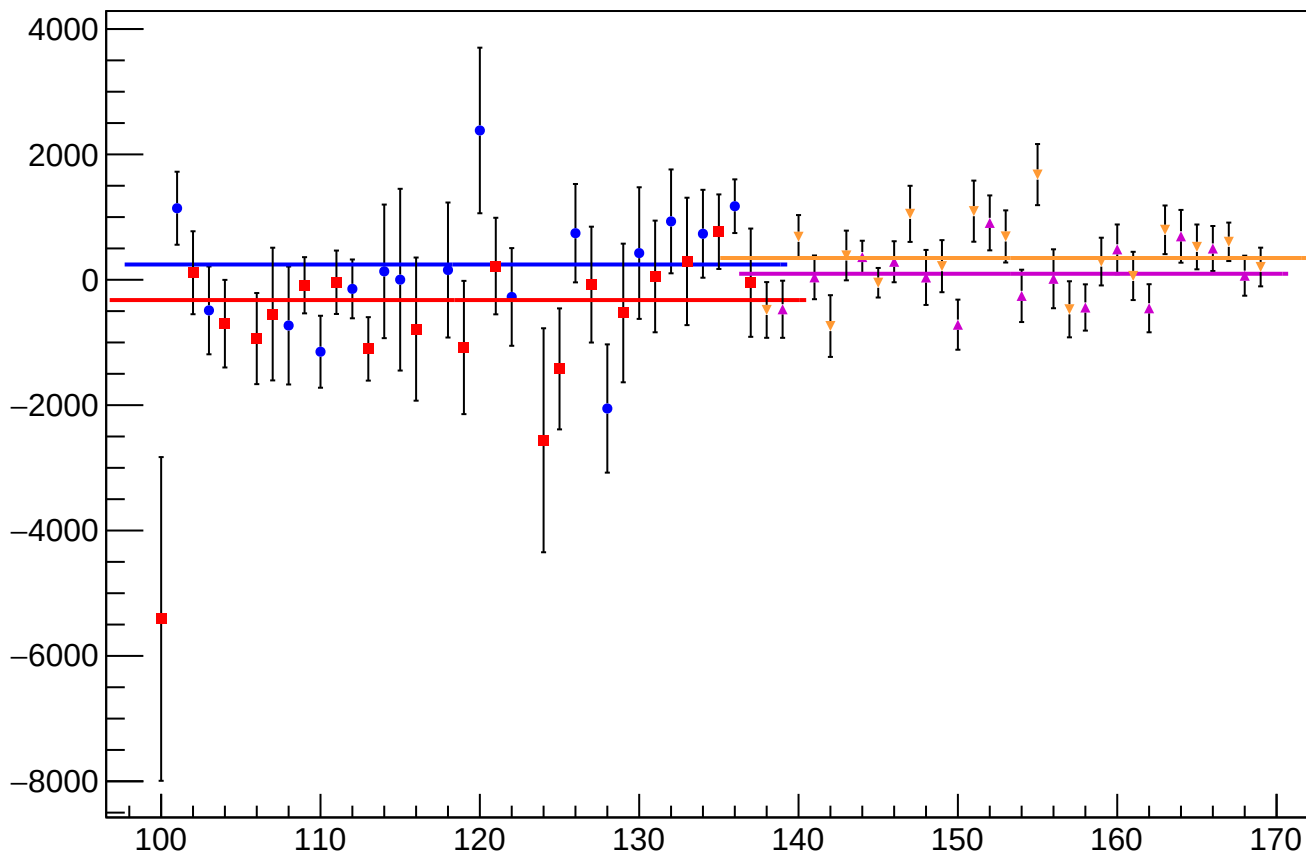
Right: 52.257+/-0.010 χ^2/NDF : 1385824.6/34

In: 47.642+/-0.008 χ^2/NDF : 997068.8/30

Out: 47.718+/-0.008 χ^2/NDF : 1239828.8/35

All: 47.681+/-0.005 χ^2/NDF : 2236946.7/66

asym_sam_15_37_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 243.826+/-180.872 χ^2/NDF : 25.6/15

Left Out: 347.344+/-90.876 χ^2/NDF :31.6/16

Right Out: -323.628+/-173.631 χ^2/NDF : 16.5/18

Left In: 95.883+/-96.305 χ^2/NDF :19.7/14

Left: 228.901+/-66.095 χ^2/NDF : 54.9/31

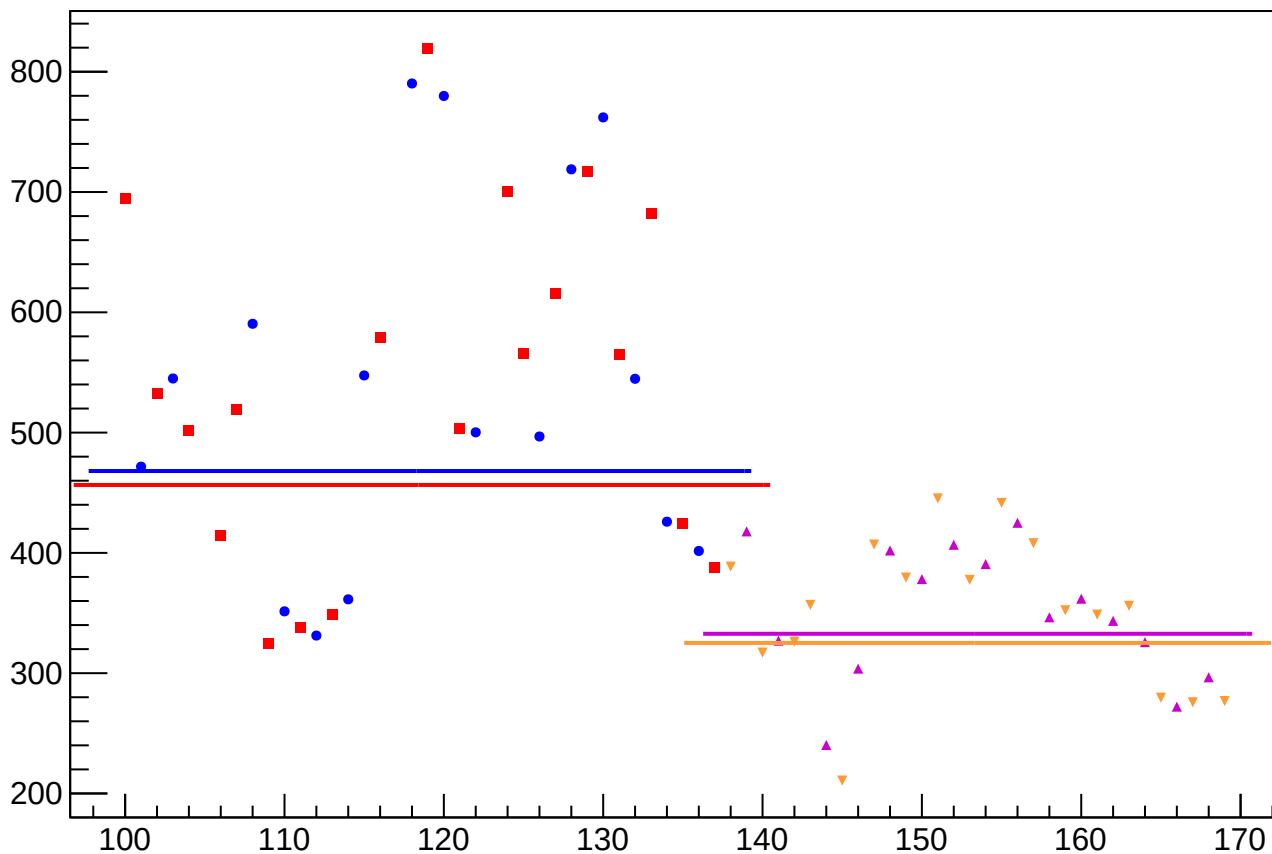
Right: -51.485+/-125.257 χ^2/NDF : 47.2/34

In: 128.561+/-85.006 χ^2/NDF :45.8/30

Out: 203.066+/-80.515 χ^2/NDF :59.8/35

All: 167.834+/-58.456 χ^2/NDF : 106.0/66

asym_sam_15_37_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 468.065 $\pm$ 0.128 χ^2 /NDF: 982915.8/15

Left Out: 325.145 $\pm$ 0.064 χ^2 /NDF: 1125968.3/16

Right Out: 456.467 $\pm$ 0.123 χ^2 /NDF: 1082565.2/18

Left In: 332.753 $\pm$ 0.068 χ^2 /NDF: 685724.3/14

Left: 328.729 $\pm$ 0.047 χ^2 /NDF: 1818294.2/31

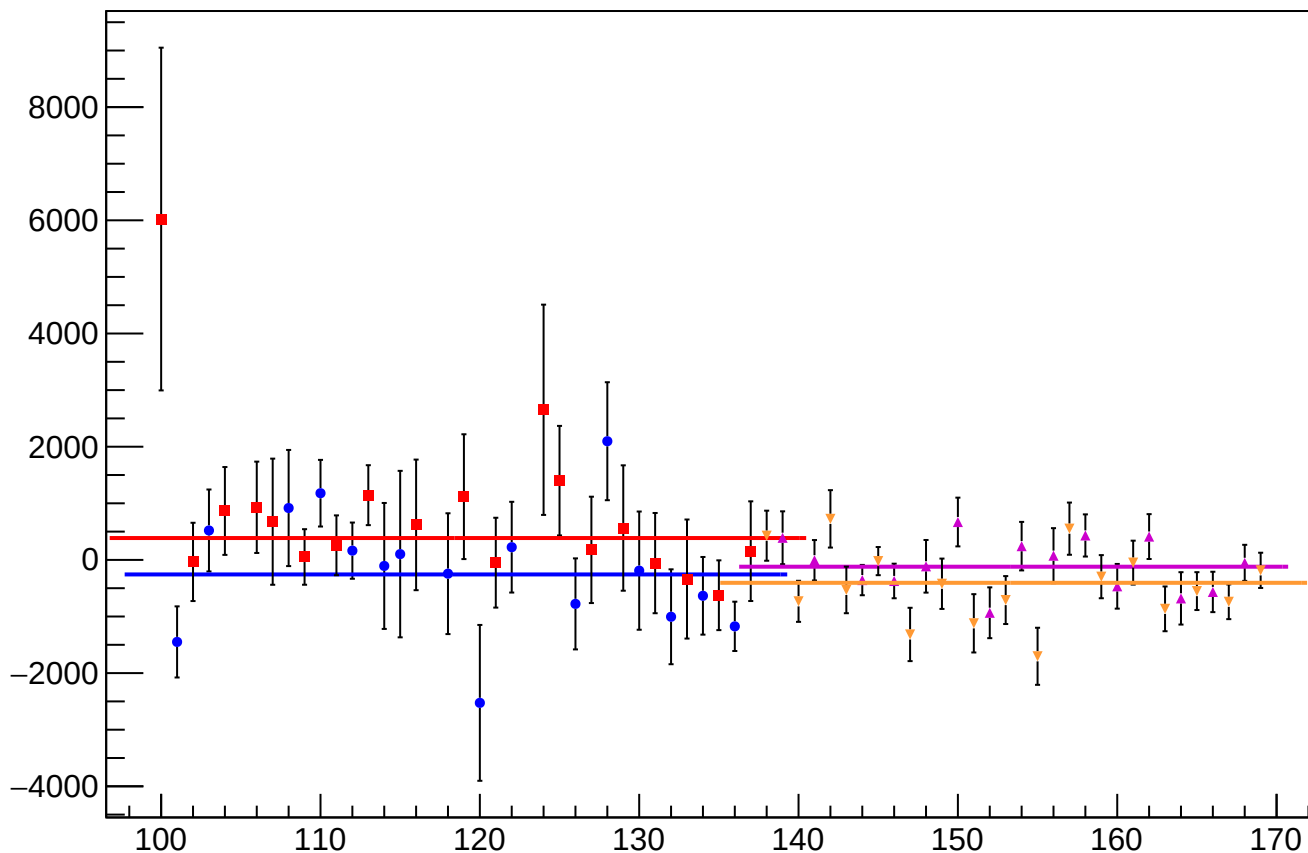
Right: 462.029 $\pm$ 0.089 χ^2 /NDF: 2069760.5/34

In: 362.641 $\pm$ 0.060 χ^2 /NDF: 2540736.2/30

Out: 353.383 $\pm$ 0.057 χ^2 /NDF: 3106585.3/35

All: 357.761 $\pm$ 0.041 χ^2 /NDF: 5659825.0/66

asym_sam_15_37_dd_mean vs Slug, Sign Corrected



Right In: -256.748+/-186.462 χ^2 /NDF: 26.9/15

Left Out: -404.721+/-92.829 χ^2 /NDF:33.1/16

Right Out: 386.449+/-182.363 χ^2 /NDF: 14.2/18

Left In: -120.106+/-98.006 χ^2 /NDF:18.1/14

Left: -270.129+/-67.396 χ^2 /NDF: 55.7/31

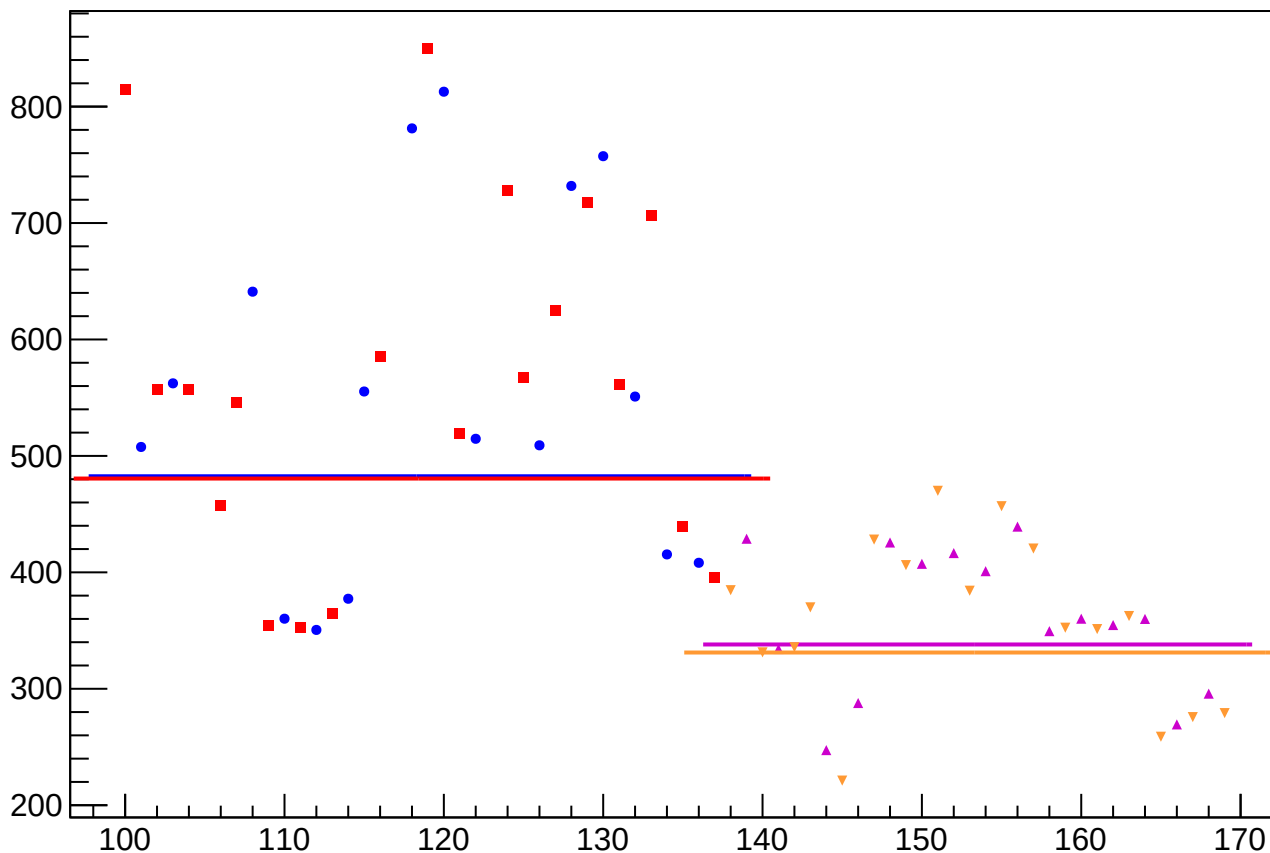
Right: 71.997+/-130.375 χ^2 /NDF: 47.2/34

In: -149.684+/-86.753 χ^2 /NDF:45.5/30

Out: -241.903+/-82.728 χ^2 /NDF:62.3/35

All: -197.982+/-59.870 χ^2 /NDF: 108.3/66

asym_sam_15_37_dd_rms vs Slug, Sign Corrected



Right In: 482.512 $\pm$ 0.132 χ^2/NDF : 946526.1/15

Left Out: 331.150 $\pm$ 0.066 χ^2/NDF : 1195273.2/16

Right Out: 480.559 $\pm$ 0.129 χ^2/NDF : 993796.3/18

Left In: 338.053 $\pm$ 0.069 χ^2/NDF : 798625.8/14

Left: 334.414 $\pm$ 0.048 χ^2/NDF : 1999129.7/31

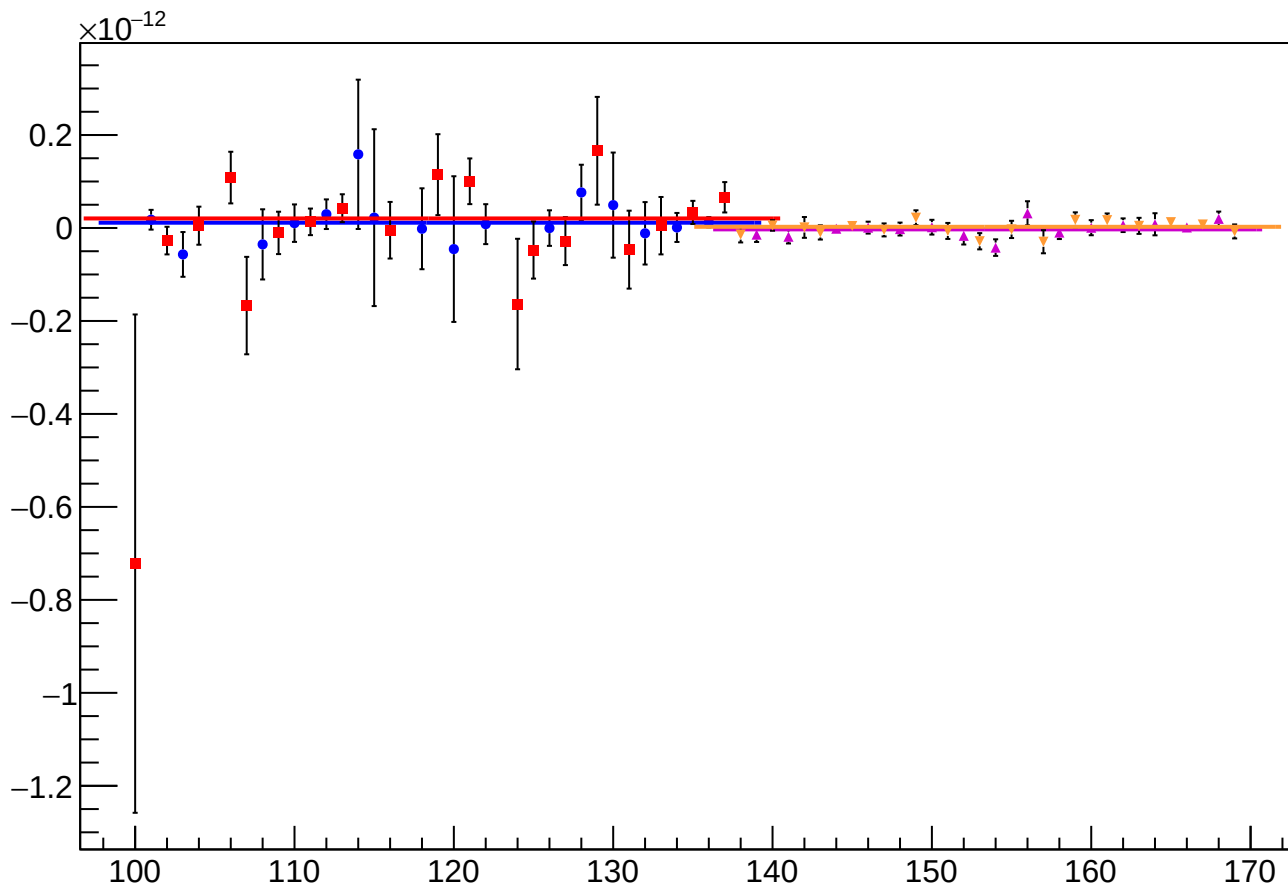
Right: 481.514 $\pm$ 0.092 χ^2/NDF : 1940434.6/34

In: 369.324 $\pm$ 0.061 χ^2/NDF : 2685735.8/30

Out: 361.897 $\pm$ 0.058 χ^2/NDF : 3255287.0/35

All: 365.434 $\pm$ 0.042 χ^2/NDF : 5948698.6/66

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 5.4/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:12.0/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 23.7/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:12.2/14

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 25.4/31

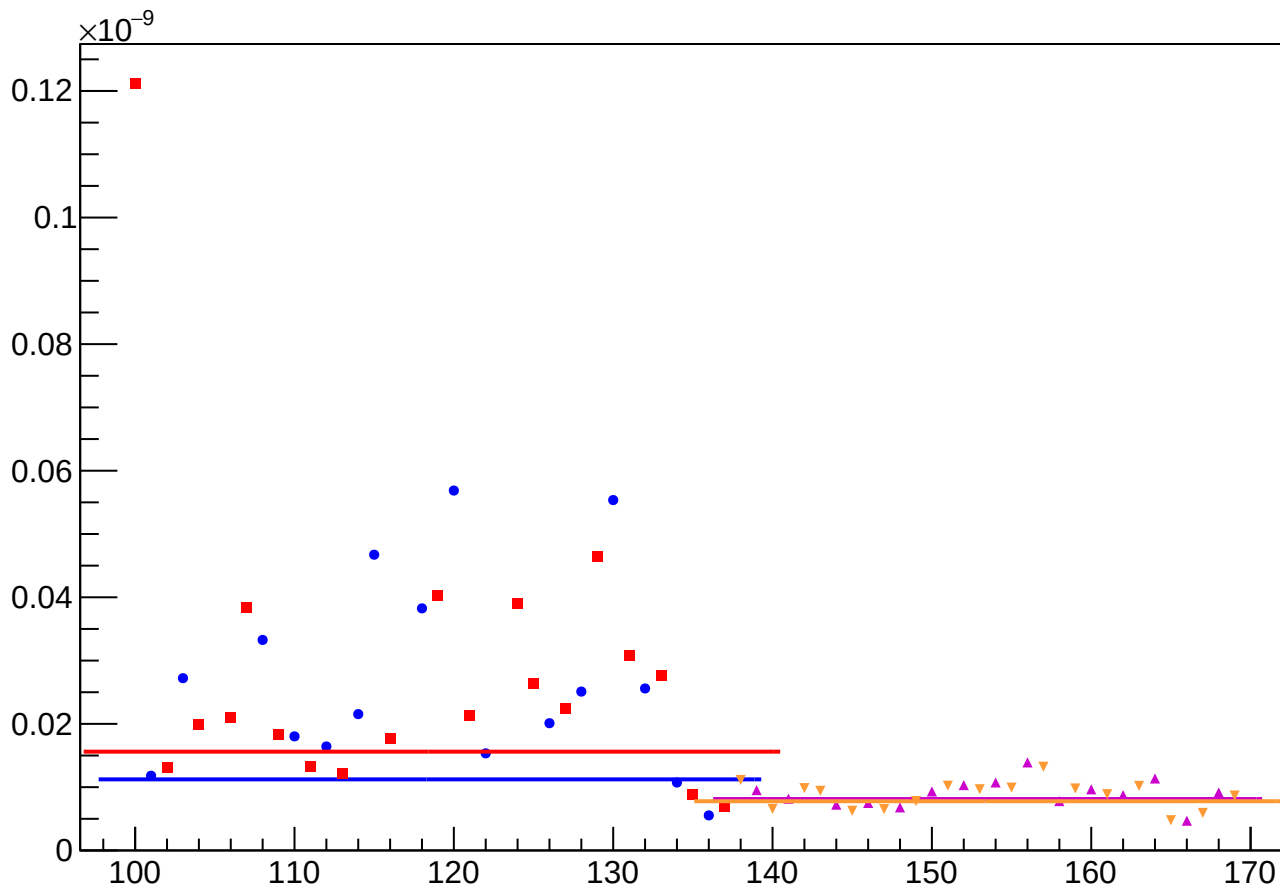
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 29.7/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:20.2/30

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:38.5/35

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 59.7/66

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2103068.7/15

Left Out: 0.000+/-0.000 χ^2/NDF : 714018.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1184320.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 522787.9/14

Left: 0.000+/-0.000 χ^2/NDF : 1246044.7/31

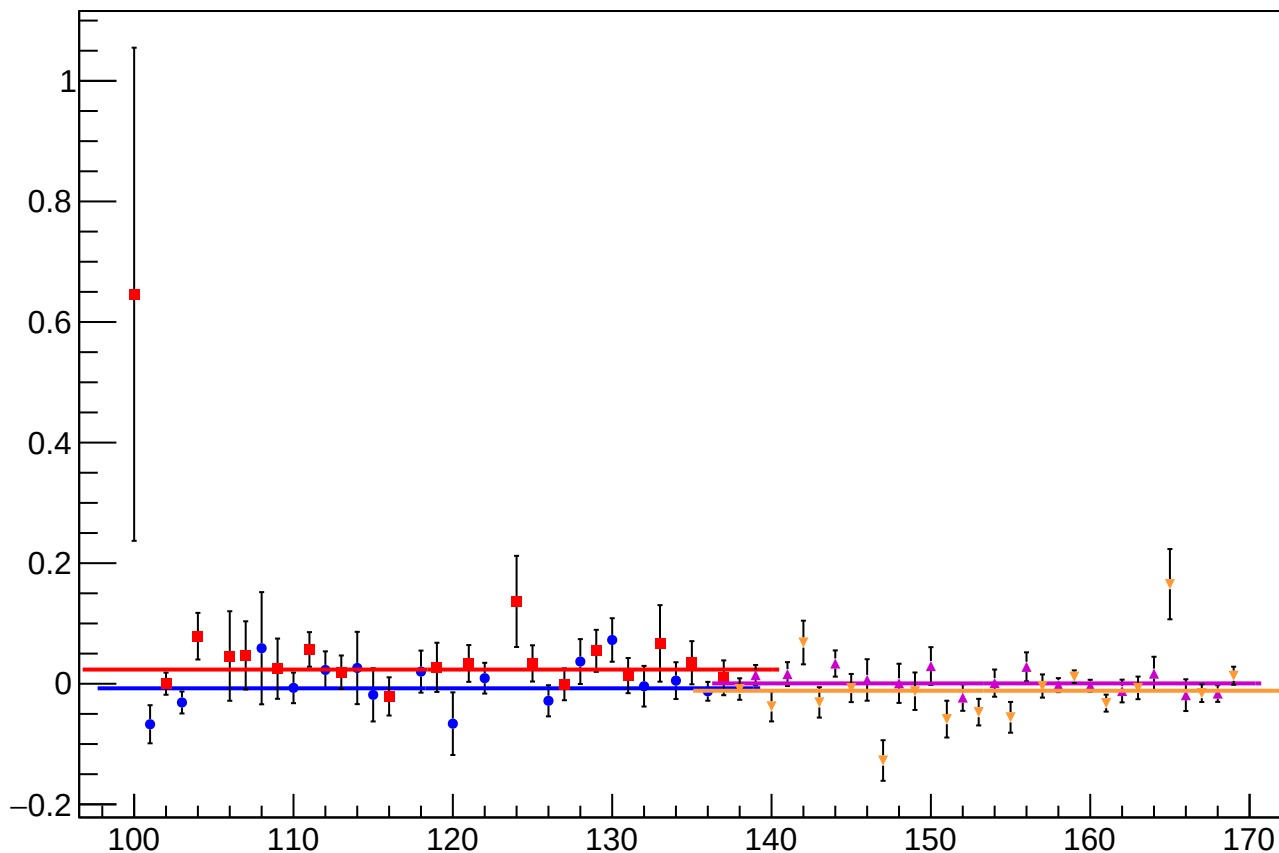
Right: 0.000+/-0.000 χ^2/NDF : 3514192.9/34

In: 0.000+/-0.000 χ^2/NDF : 2872093.3/30

Out: 0.000+/-0.000 χ^2/NDF : 2946455.4/35

All: 0.000+/-0.000 χ^2/NDF : 5819988.7/66

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.007 χ^2/NDF : 16.7/15

Left Out: -0.012 ± 0.005 χ^2/NDF : 45.7/16

Right Out: 0.024 ± 0.008 χ^2/NDF : 14.6/18

Left In: 0.001 ± 0.005 χ^2/NDF : 9.9/14

Left: -0.005 ± 0.003 χ^2/NDF : 59.0/31

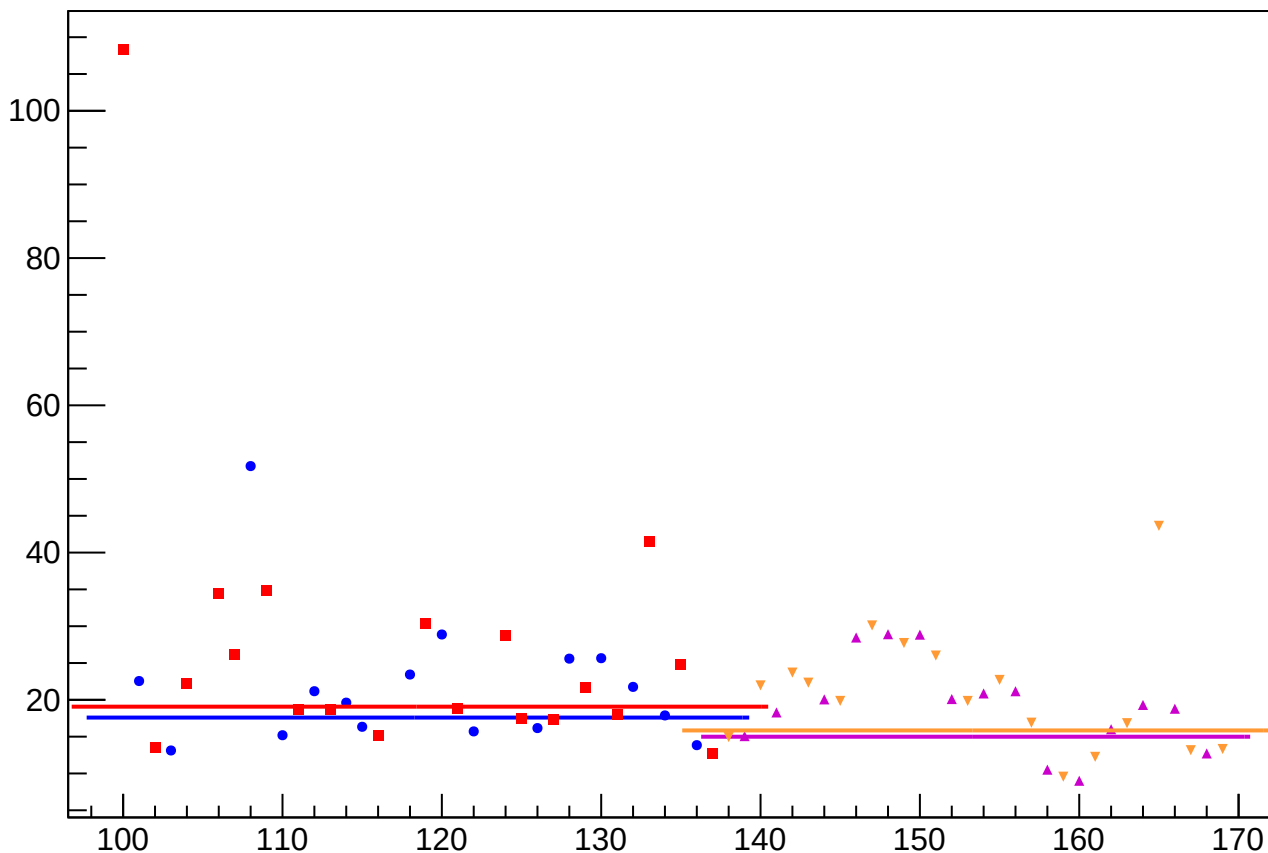
Right: 0.007 ± 0.005 χ^2/NDF : 40.0/34

In: -0.002 ± 0.004 χ^2/NDF : 27.5/30

Out: -0.002 ± 0.004 χ^2/NDF : 75.4/35

All: -0.002 ± 0.003 χ^2/NDF : 102.9/66

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 17.591+/-0.005 χ^2/NDF : 993249.5/15

Left Out: 15.843+/-0.003 χ^2/NDF : 2933301.6/16

Right Out: 19.072+/-0.005 χ^2/NDF : 1247983.1/18

Left In: 14.990+/-0.003 χ^2/NDF : 2765076.7/14

Left: 15.415+/-0.002 χ^2/NDF : 5730941.4/31

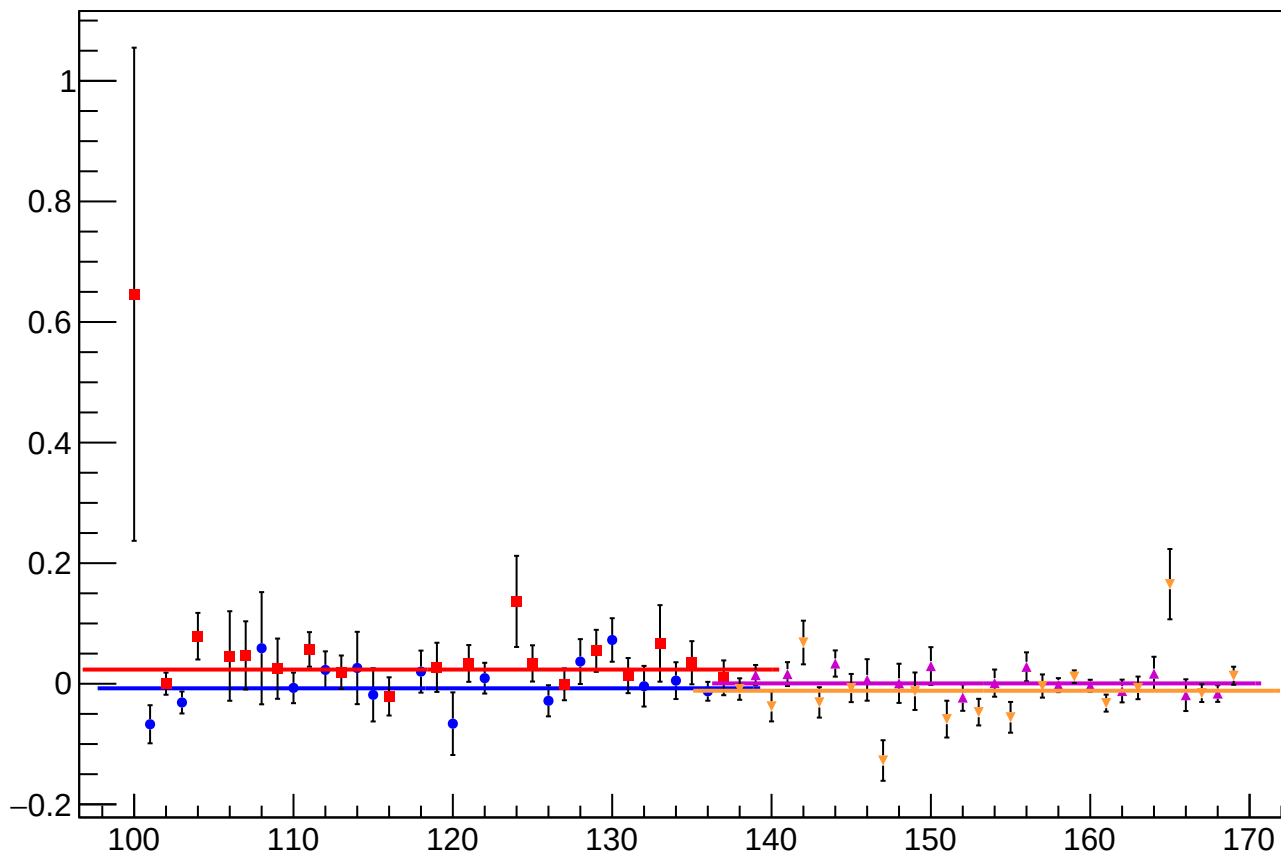
Right: 18.278+/-0.004 χ^2/NDF : 2280449.7/34

In: 15.771+/-0.003 χ^2/NDF : 3940913.1/30

Out: 16.722+/-0.003 χ^2/NDF : 4434328.4/35

All: 16.236+/-0.002 χ^2/NDF : 8431938.3/66

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.007 $\chi^2/\text{NDF}: 16.7/15$

Left Out: -0.012 ± 0.005 $\chi^2/\text{NDF}: 45.7/16$

Right Out: 0.024 ± 0.008 $\chi^2/\text{NDF}: 14.6/18$

Left In: 0.001 ± 0.005 $\chi^2/\text{NDF}: 9.9/14$

Left: -0.005 ± 0.003 $\chi^2/\text{NDF}: 59.0/31$

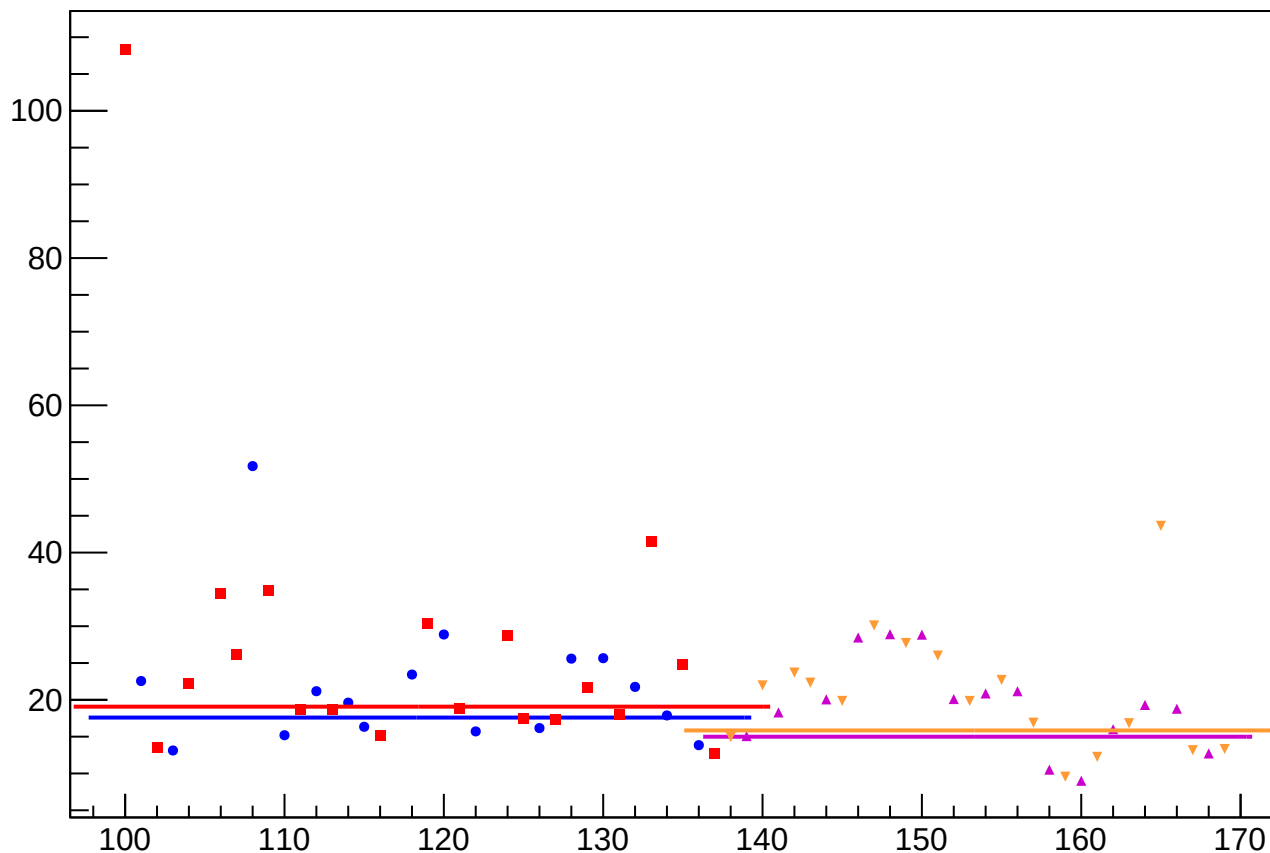
Right: 0.007 ± 0.005 $\chi^2/\text{NDF}: 40.0/34$

In: -0.002 ± 0.004 $\chi^2/\text{NDF}: 27.5/30$

Out: -0.002 ± 0.004 $\chi^2/\text{NDF}: 75.4/35$

All: -0.002 ± 0.003 $\chi^2/\text{NDF}: 102.9/66$

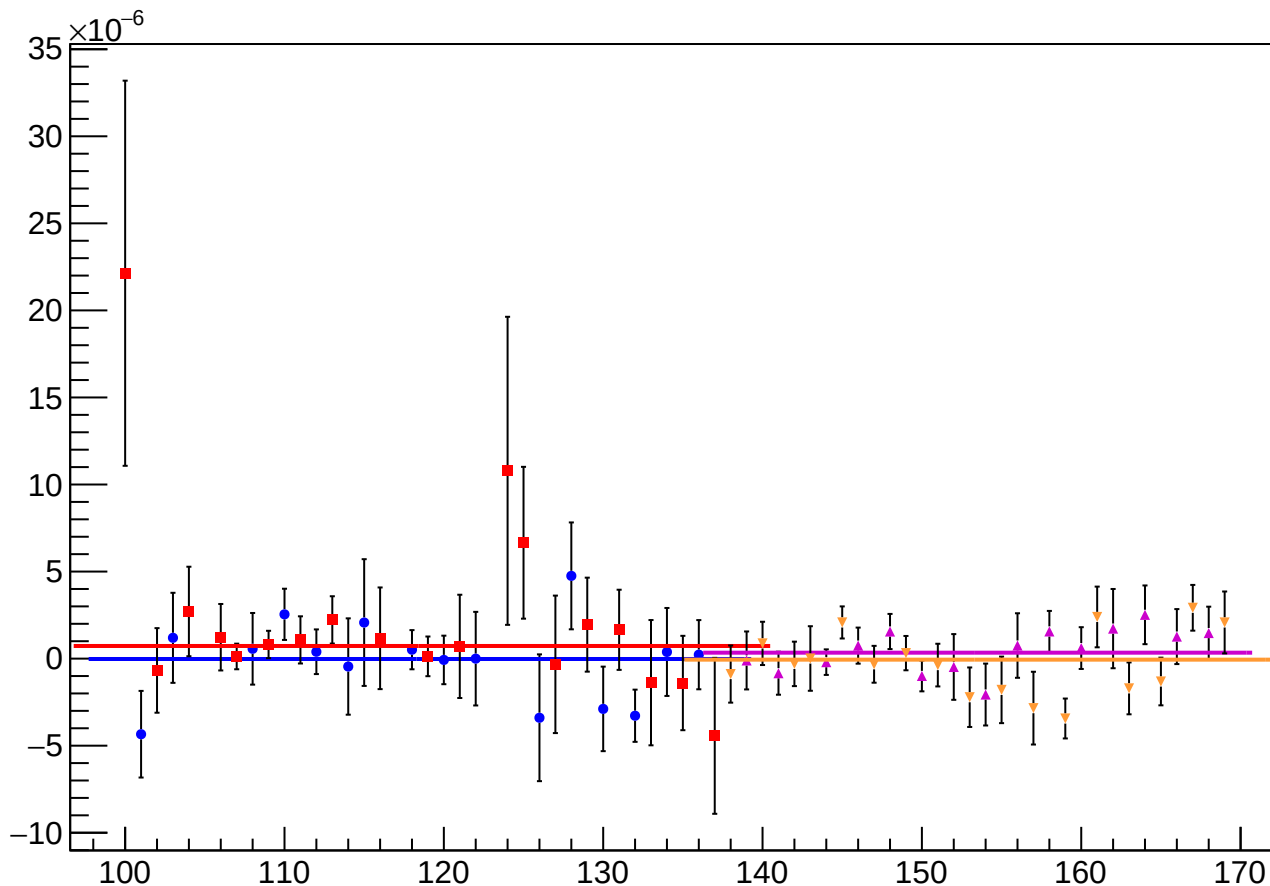
asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 17.591 ± 0.005 $\chi^2/\text{NDF}: 993249.5/15$
 Left Out: 15.843 ± 0.003 $\chi^2/\text{NDF}: 2933301.6/16$
 Right Out: 19.072 ± 0.005 $\chi^2/\text{NDF}: 1247983.1/18$
 Left In: 14.990 ± 0.003 $\chi^2/\text{NDF}: 2765076.7/14$

Left: 15.415 ± 0.002 $\chi^2/\text{NDF}: 5730941.4/31$
 Right: 18.278 ± 0.004 $\chi^2/\text{NDF}: 2280449.7/34$
 In: 15.771 ± 0.003 $\chi^2/\text{NDF}: 3940913.1/30$
 Out: 16.722 ± 0.003 $\chi^2/\text{NDF}: 4434328.4/35$
 All: 16.236 ± 0.002 $\chi^2/\text{NDF}: 8431938.3/66$

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.5/15

Left Out: -0.000+/-0.000 χ^2/NDF : 30.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 12.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 11.5/14

Left: 0.000+/-0.000 χ^2/NDF : 42.3/31

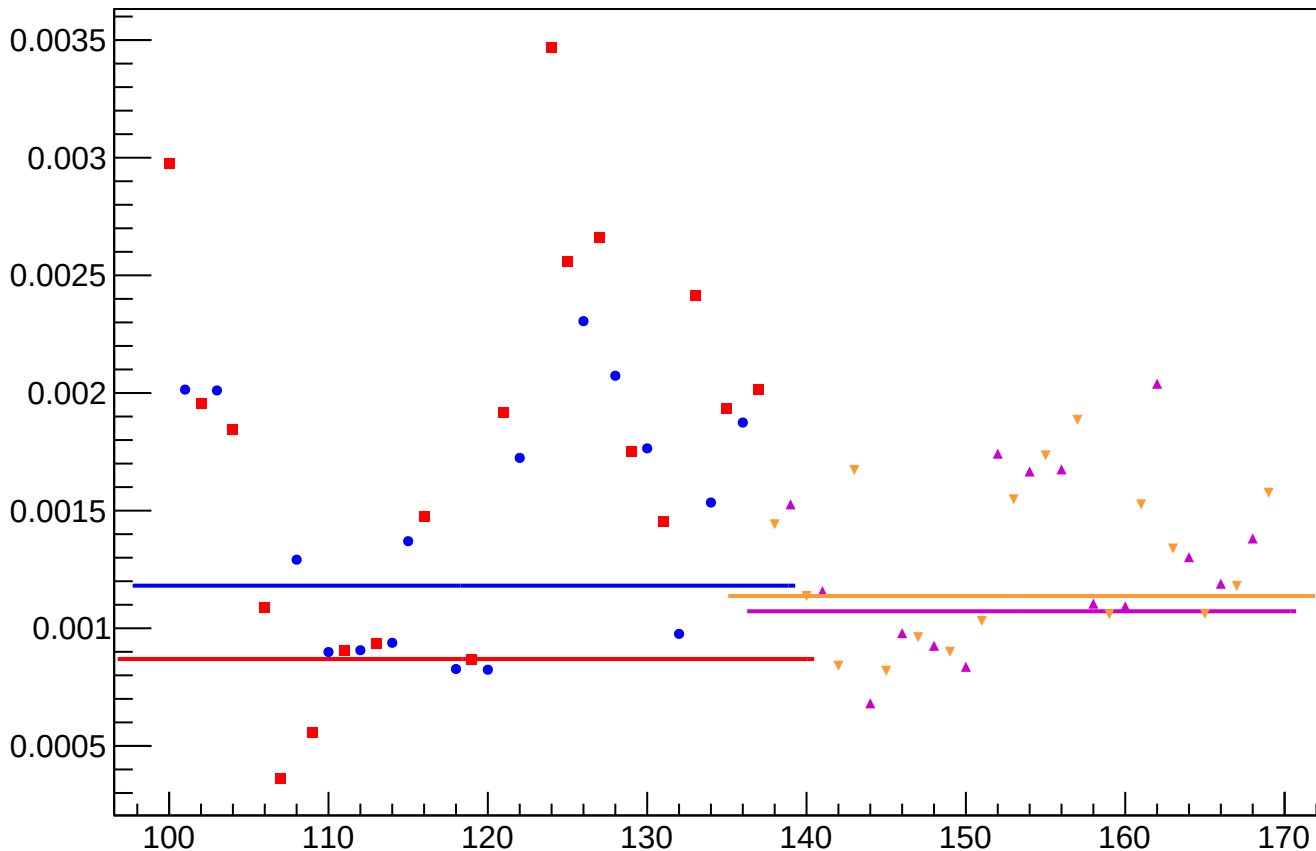
Right: 0.000+/-0.000 χ^2/NDF : 30.9/34

In: 0.000+/-0.000 χ^2/NDF : 28.4/30

Out: 0.000+/-0.000 χ^2/NDF : 45.4/35

All: 0.000+/-0.000 χ^2/NDF : 73.8/66

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 1828304.9/15

Left Out: 0.001+/-0.000

χ^2/NDF :1610603.8/16

Right Out: 0.001+/-0.000

χ^2/NDF : 4435351.6/18

Left In: 0.001+/-0.000

χ^2/NDF :2110292.9/14

Left: 0.001+/-0.000

χ^2/NDF : 3761365.7/31

Right: 0.001+/-0.000

χ^2/NDF : 6790405.1/34

In: 0.001+/-0.000

χ^2/NDF :4011102.9/30

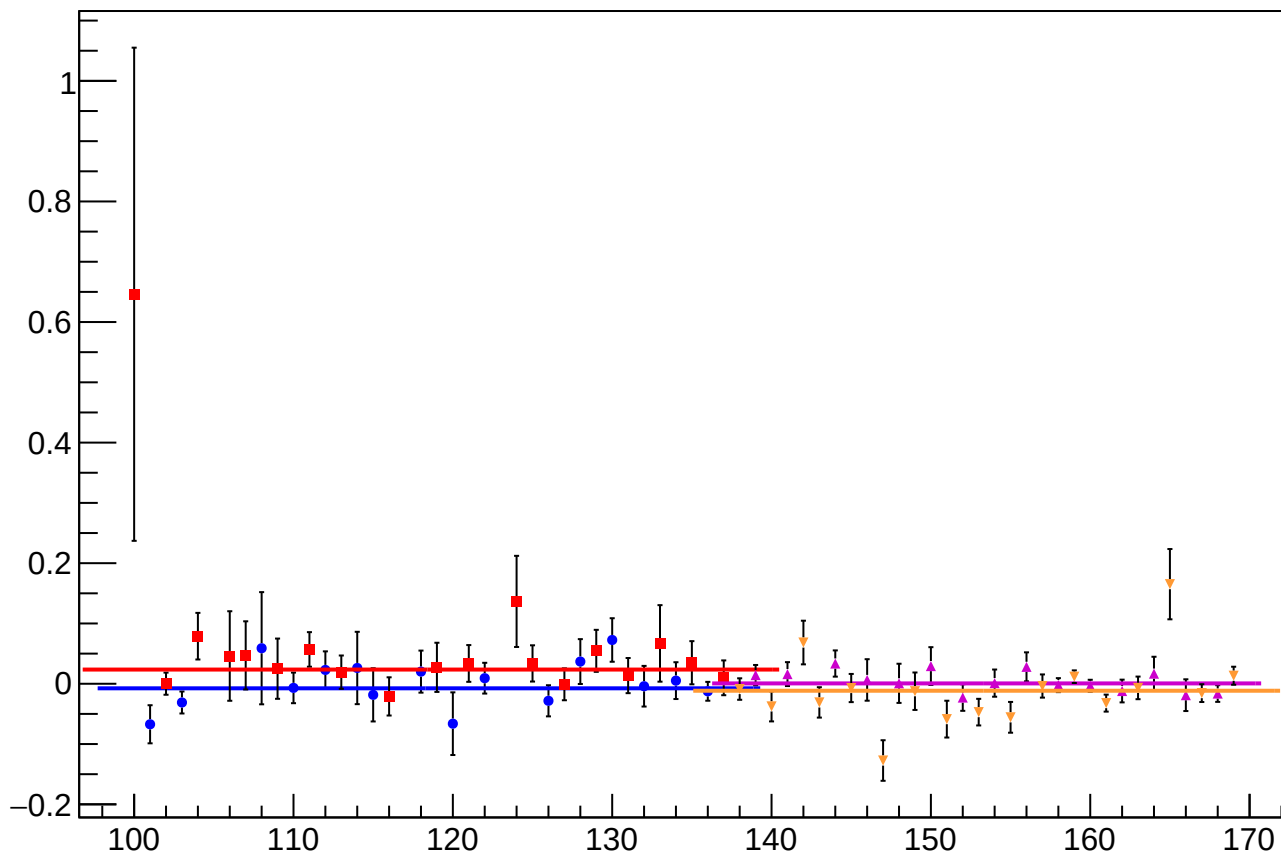
Out: 0.001+/-0.000

χ^2/NDF :6618515.0/35

All: 0.001+/-0.000

χ^2/NDF : 10731552.6/66

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.007 $\chi^2/\text{NDF}: 16.7/15$

Left Out: -0.012 ± 0.005 $\chi^2/\text{NDF}: 45.7/16$

Right Out: 0.024 ± 0.008 $\chi^2/\text{NDF}: 14.6/18$

Left In: 0.001 ± 0.005 $\chi^2/\text{NDF}: 9.9/14$

Left: -0.005 ± 0.003 $\chi^2/\text{NDF}: 59.0/31$

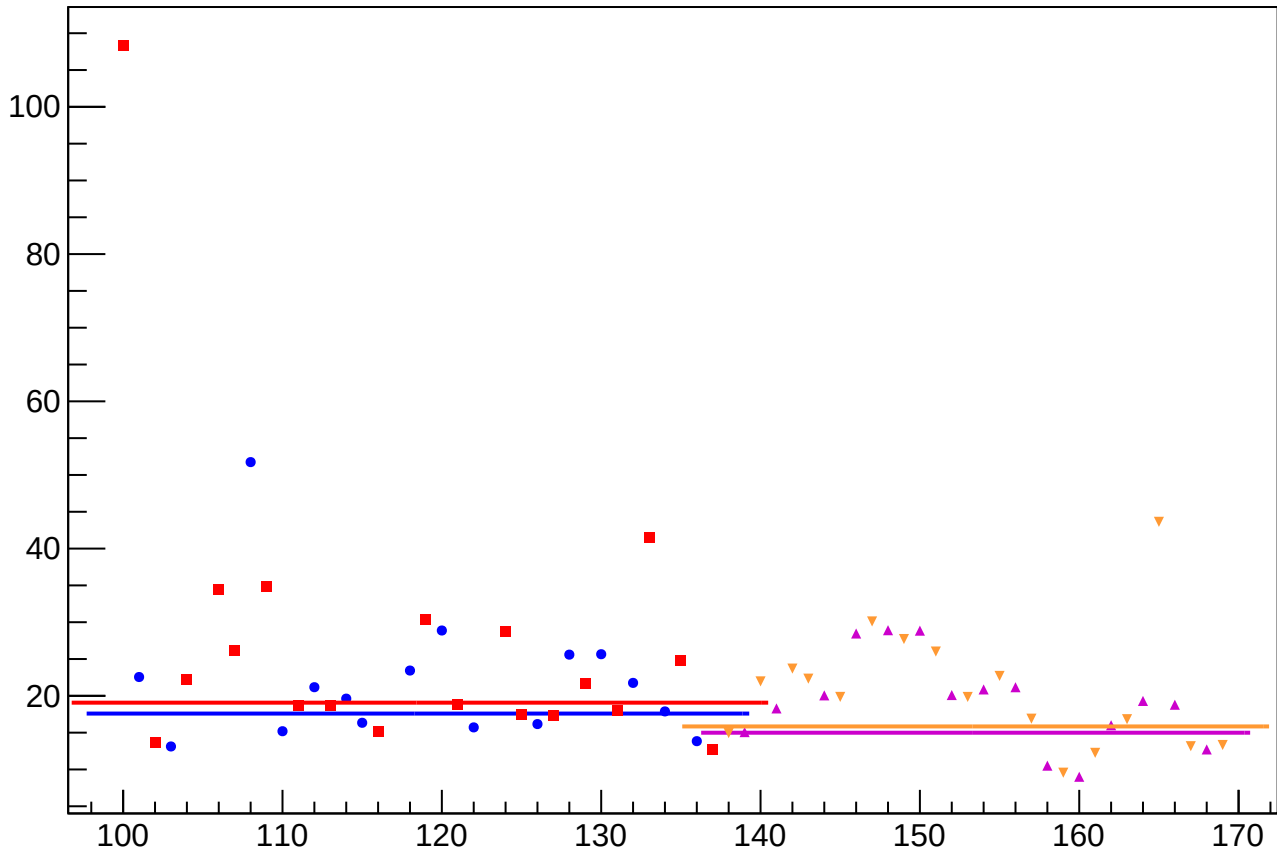
Right: 0.007 ± 0.005 $\chi^2/\text{NDF}: 40.0/34$

In: -0.002 ± 0.004 $\chi^2/\text{NDF}: 27.5/30$

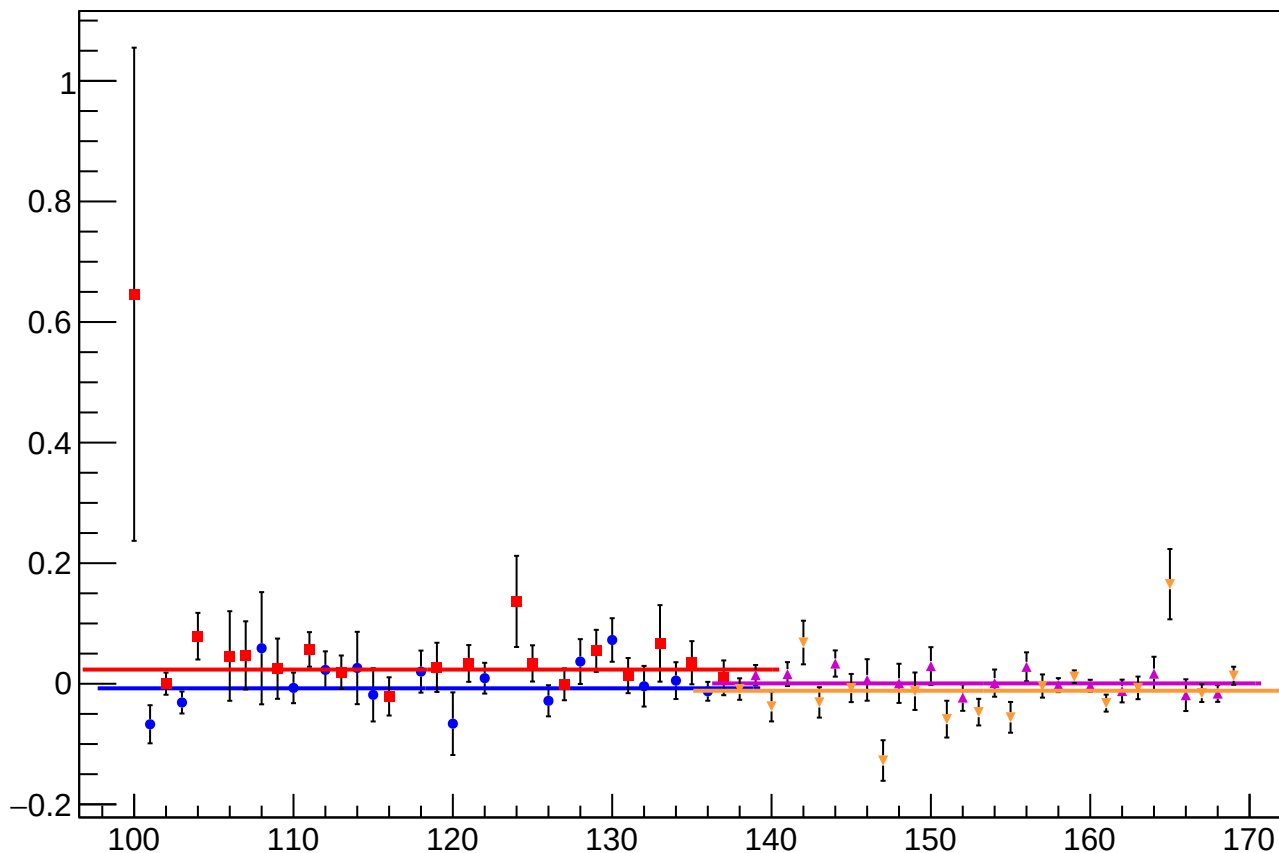
Out: -0.002 ± 0.004 $\chi^2/\text{NDF}: 75.4/35$

All: -0.002 ± 0.003 $\chi^2/\text{NDF}: 102.9/66$

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.008 ± 0.007 $\chi^2/\text{NDF}: 16.7/15$

Left Out: -0.012 ± 0.005 $\chi^2/\text{NDF}: 45.7/16$

Right Out: 0.024 ± 0.008 $\chi^2/\text{NDF}: 14.6/18$

Left In: 0.001 ± 0.005 $\chi^2/\text{NDF}: 9.9/14$

Left: -0.005 ± 0.003 $\chi^2/\text{NDF}: 59.0/31$

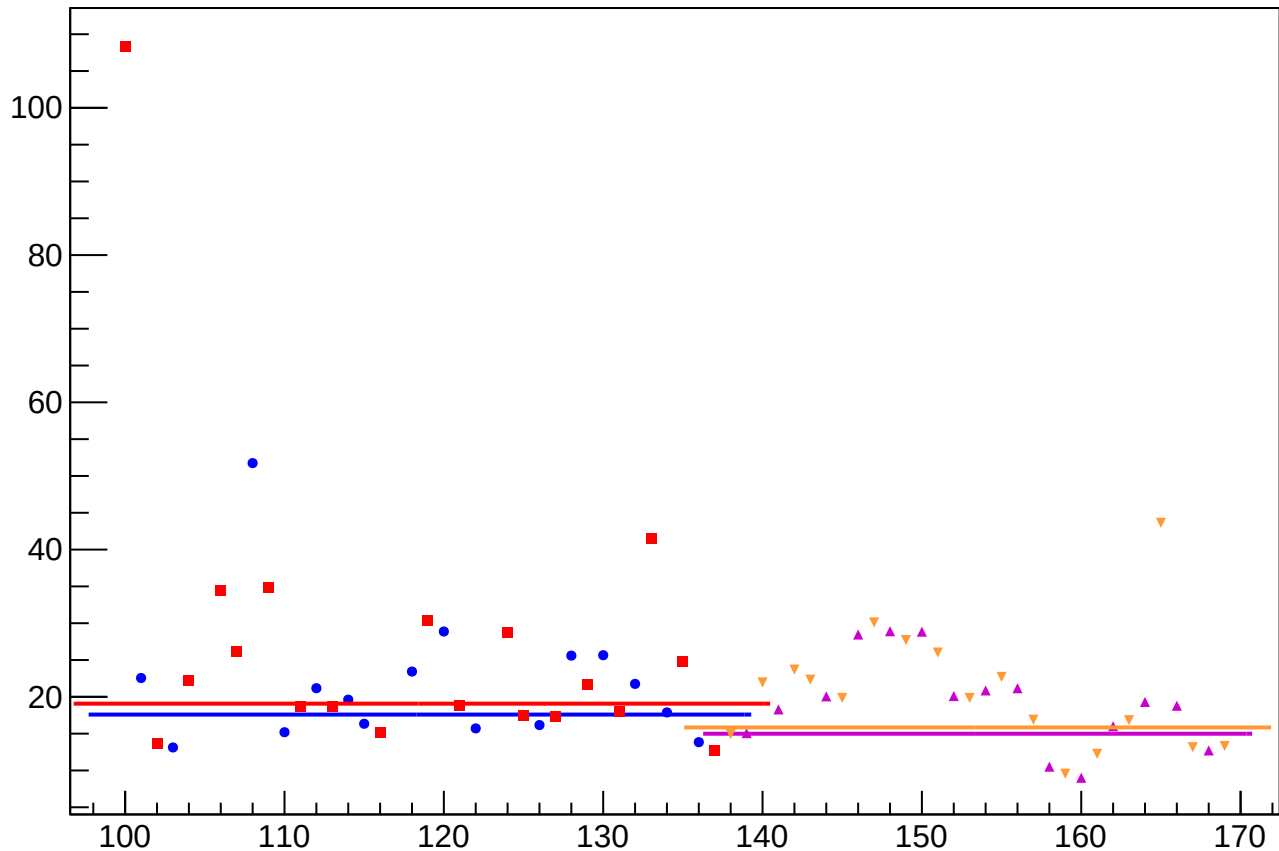
Right: 0.007 ± 0.005 $\chi^2/\text{NDF}: 40.0/34$

In: -0.002 ± 0.004 $\chi^2/\text{NDF}: 27.5/30$

Out: -0.002 ± 0.004 $\chi^2/\text{NDF}: 75.4/35$

All: -0.002 ± 0.003 $\chi^2/\text{NDF}: 102.9/66$

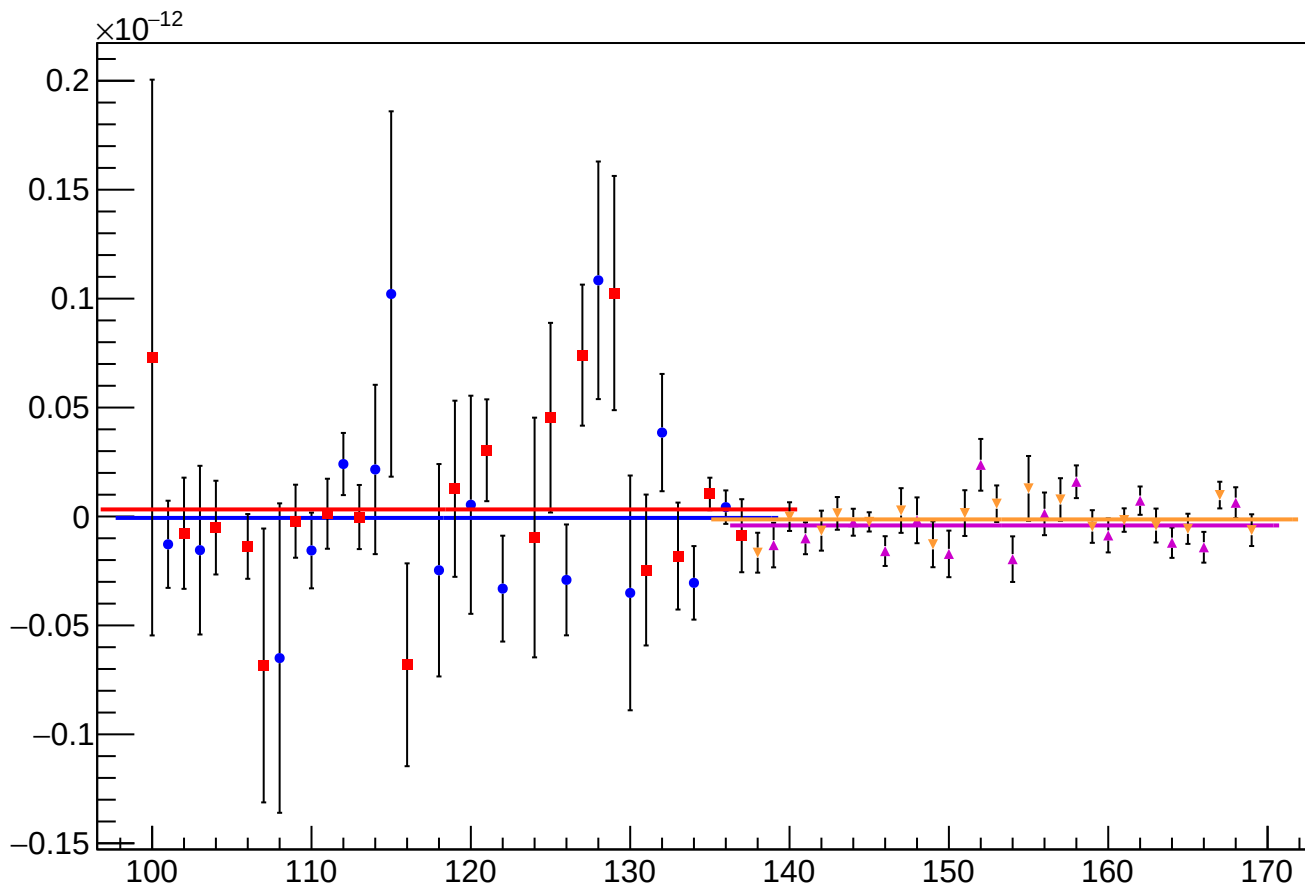
asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 17.591+/-0.005 χ^2/NDF : 993288.6/15
 Left Out: 15.843+/-0.003 χ^2/NDF : 2933563.7/16
 Right Out: 19.072+/-0.005 χ^2/NDF : 1247904.7/18
 Left In: 14.990+/-0.003 χ^2/NDF : 2765390.6/14

Left: 15.415+/-0.002 χ^2/NDF : 5731529.1/31
 Right: 18.278+/-0.004 χ^2/NDF : 2280425.3/34
 In: 15.771+/-0.003 χ^2/NDF : 3941329.4/30
 Out: 16.722+/-0.003 χ^2/NDF : 4434601.9/35
 All: 16.236+/-0.002 χ^2/NDF : 8432648.5/66

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 20.3/15

Left Out: -0.000+/-0.000 χ^2/NDF : 11.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 19.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 30.0/14

Left: -0.000+/-0.000 χ^2/NDF : 42.8/31

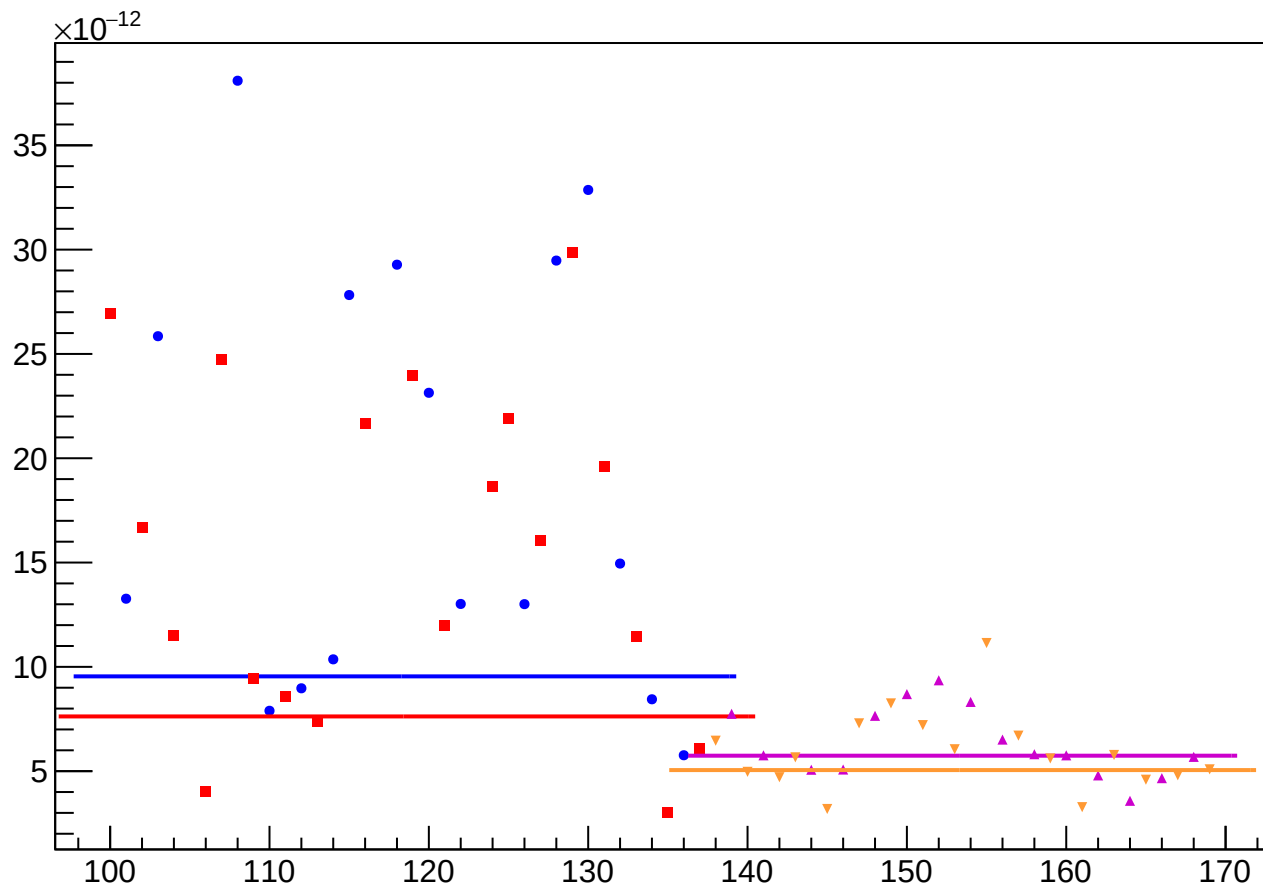
Right: 0.000+/-0.000 χ^2/NDF : 39.8/34

In: -0.000+/-0.000 χ^2/NDF : 50.6/30

Out: -0.000+/-0.000 χ^2/NDF : 31.9/35

All: -0.000+/-0.000 χ^2/NDF : 83.9/66

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2632531.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1463622.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3086000.4/18

Left In: 0.000+/-0.000 χ^2/NDF :939252.8/14

Left: 0.000+/-0.000 χ^2/NDF : 2530835.4/31

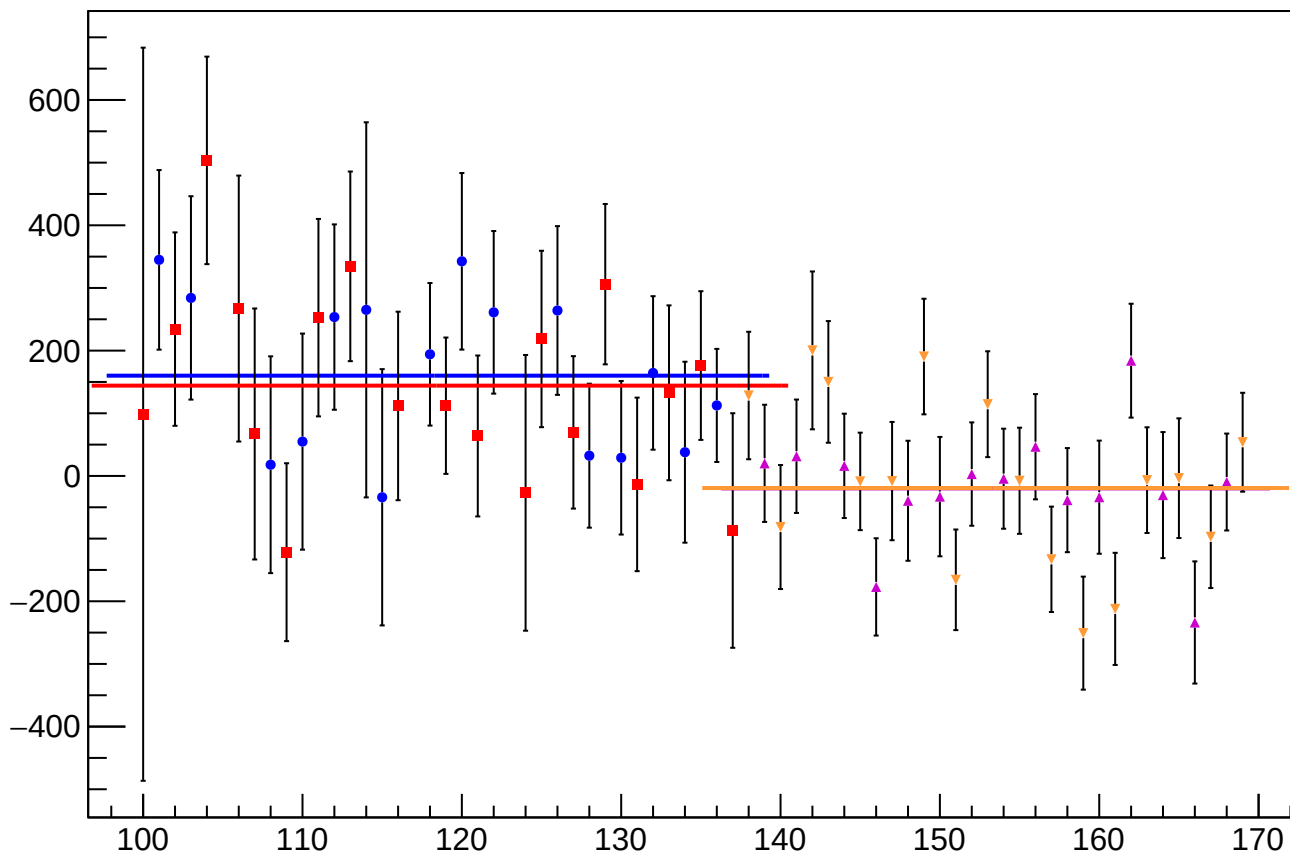
Right: 0.000+/-0.000 χ^2/NDF : 5879584.6/34

In: 0.000+/-0.000 χ^2/NDF :4540062.1/30

Out: 0.000+/-0.000 χ^2/NDF :5115754.4/35

All: 0.000+/-0.000 χ^2/NDF : 9890067.5/66

reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 160.024 $\pm$ 34.170 χ^2 /NDF: 11.1/15

Left Out: -19.297 $\pm$ 21.581 χ^2 /NDF:34.5/16

Right Out: 144.117 $\pm$ 34.213 χ^2 /NDF: 17.4/18

Left In: -19.894 $\pm$ 22.521 χ^2 /NDF:15.5/14

Left: -19.583 $\pm$ 15.582 χ^2 /NDF: 50.1/31

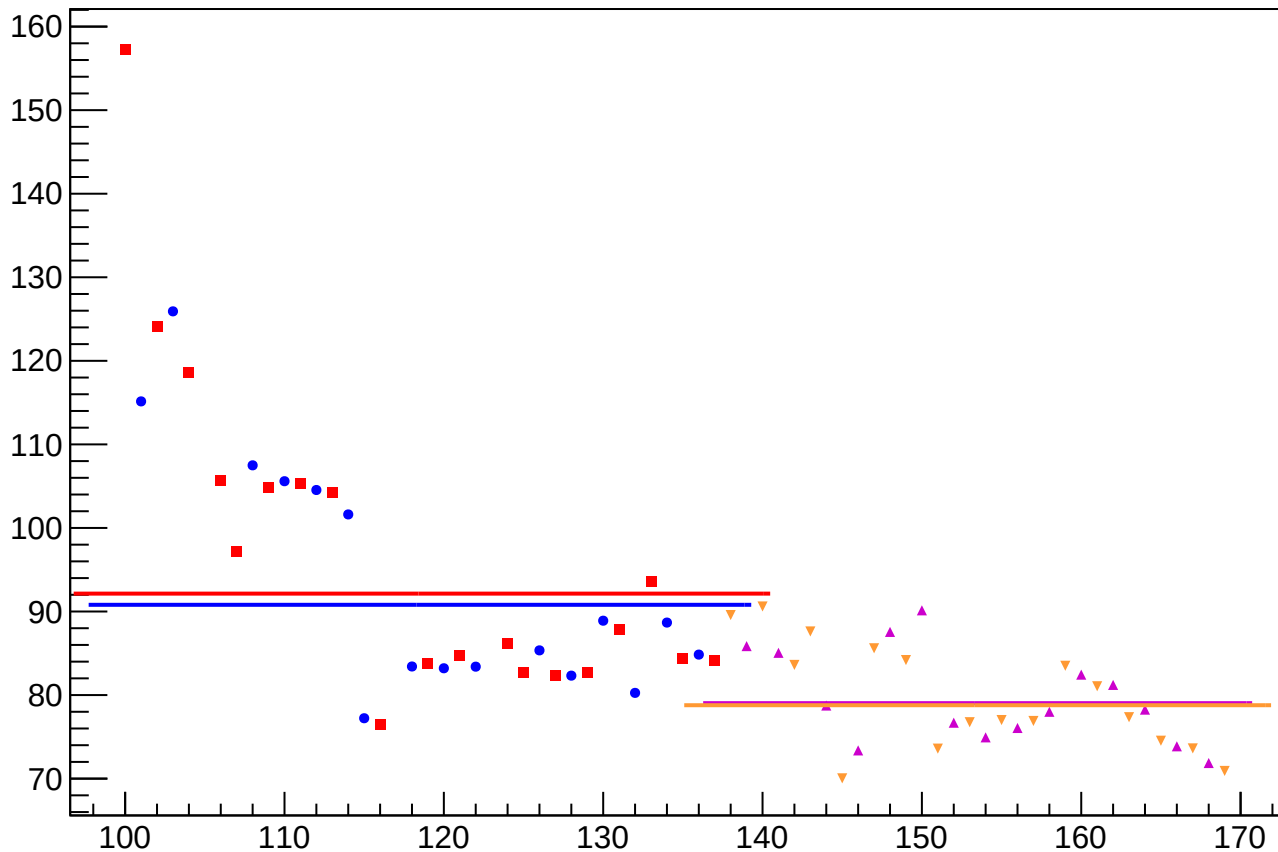
Right: 152.081 $\pm$ 24.177 χ^2 /NDF: 28.6/34

In: 34.592 $\pm$ 18.804 χ^2 /NDF:45.9/30

Out: 27.215 $\pm$ 18.253 χ^2 /NDF:68.2/35

All: 30.794 $\pm$ 13.097 χ^2 /NDF: 114.3/66

reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 90.802 $\pm$ 0.024 χ^2 /NDF: 272755.2/15

Left Out: 78.785 $\pm$ 0.015 χ^2 /NDF:163678.1/16

Right Out: 92.141 $\pm$ 0.024 χ^2 /NDF: 302032.4/18

Left In: 79.032 $\pm$ 0.016 χ^2 /NDF:109809.0/14

Left: 78.903 $\pm$ 0.011 χ^2 /NDF: 273613.1/31

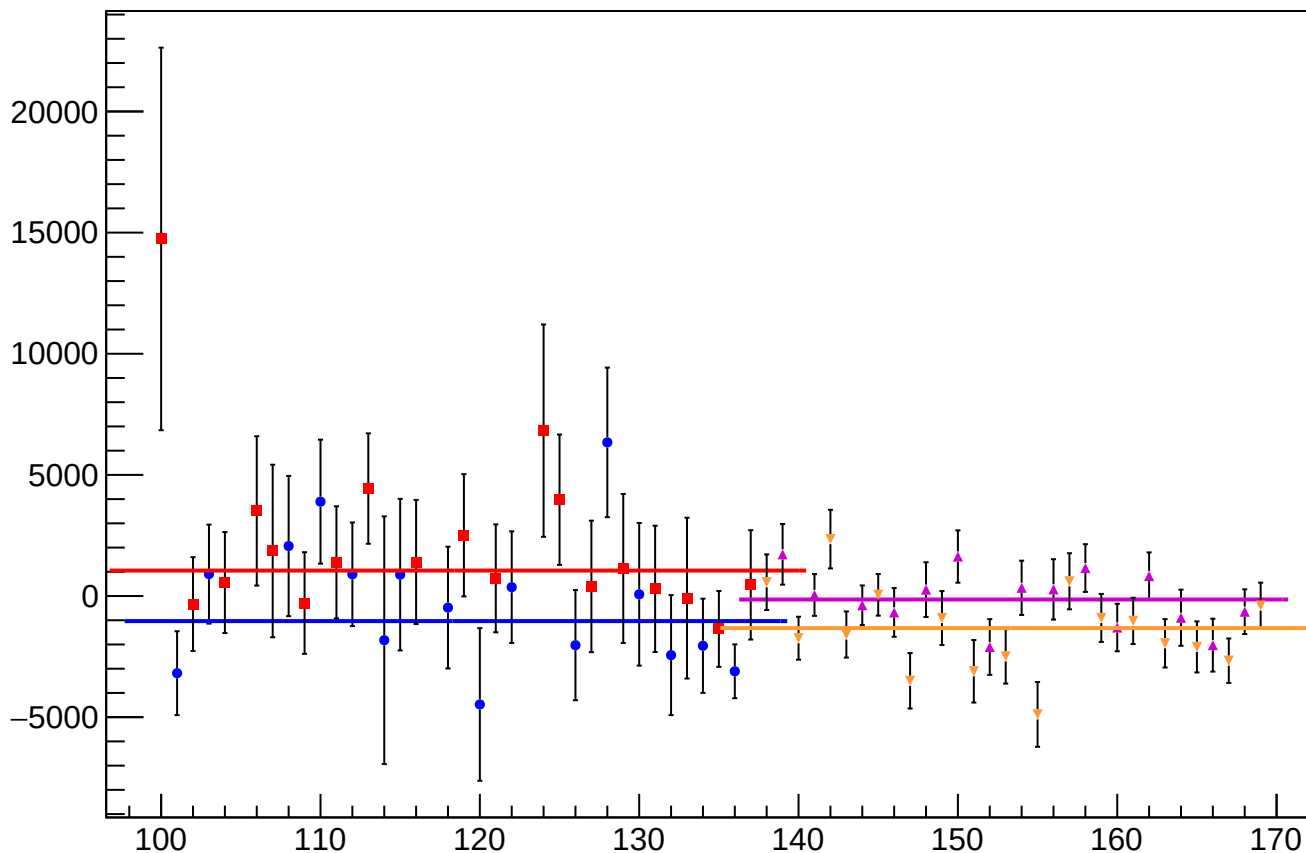
Right: 91.471 $\pm$ 0.017 χ^2 /NDF: 576322.1/34

In: 82.597 $\pm$ 0.013 χ^2 /NDF:547984.2/30

Out: 82.586 $\pm$ 0.013 χ^2 /NDF:683755.5/35

All: 82.591 $\pm$ 0.009 χ^2 /NDF: 1231740.0/66

asym_sam_24_68_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -1035.032 ± 550.207 $\chi^2/\text{NDF}: 20.2/15$

Left Out: -1324.251 ± 251.882 $\chi^2/\text{NDF}: 35.7/16$

Right Out: 1051.517 ± 568.935 $\chi^2/\text{NDF}: 12.9/18$

Left In: -143.093 ± 265.404 $\chi^2/\text{NDF}: 16.5/14$

Left: -764.527 ± 182.701 $\chi^2/\text{NDF}: 62.6/31$

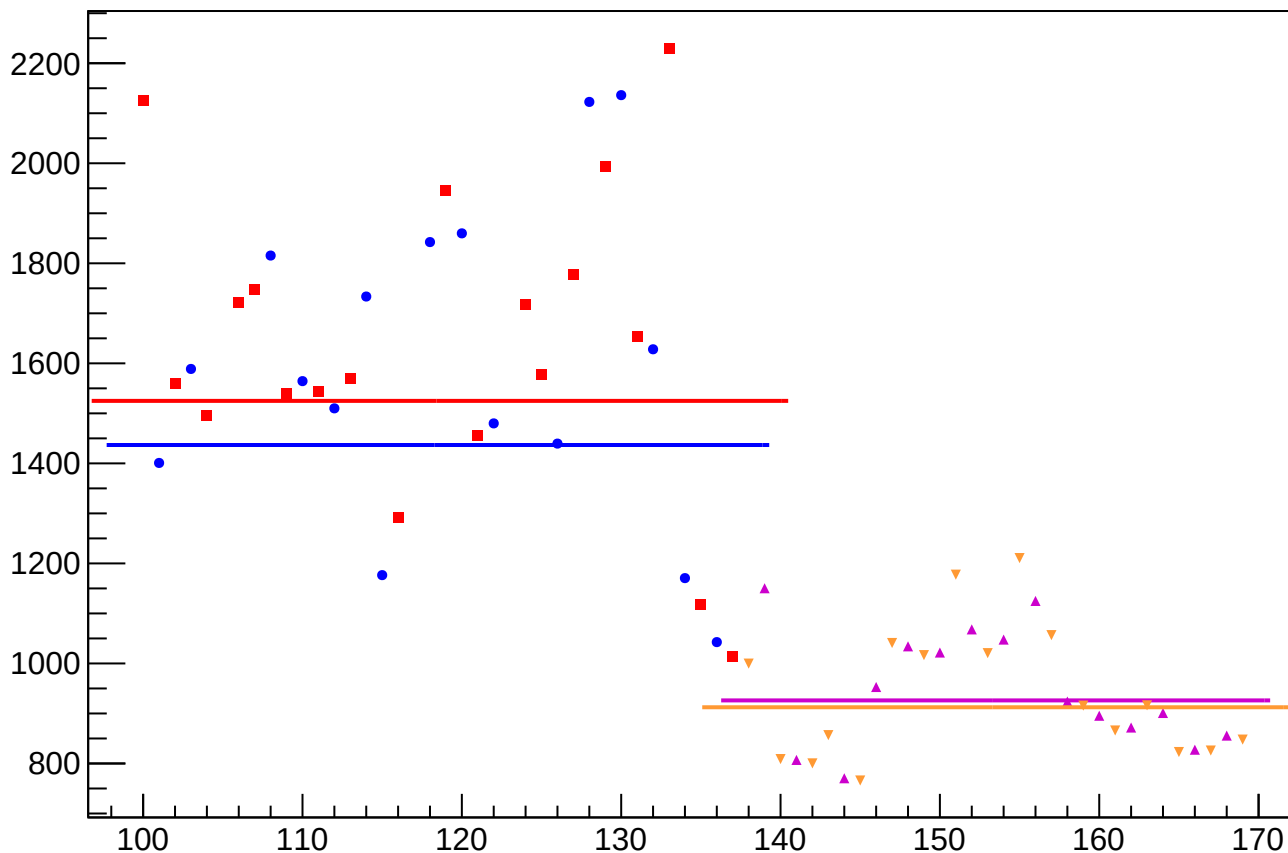
Right: -26.665 ± 395.510 $\chi^2/\text{NDF}: 40.1/34$

In: -311.456 ± 239.046 $\chi^2/\text{NDF}: 38.9/30$

Out: -934.901 ± 230.319 $\chi^2/\text{NDF}: 63.2/35$

All: -634.766 ± 165.860 $\chi^2/\text{NDF}: 105.6/66$

asym_sam_24_68_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 1436.734 $\pm$ 0.389 χ^2 /NDF: 675672.3/15

Left Out: 912.388 $\pm$ 0.178 χ^2 /NDF: 443435.5/16

Right Out: 1524.955 $\pm$ 0.402 χ^2 /NDF: 504563.9/18

Left In: 926.119 $\pm$ 0.188 χ^2 /NDF: 352499.9/14

Left: 918.894 $\pm$ 0.129 χ^2 /NDF: 798751.8/31

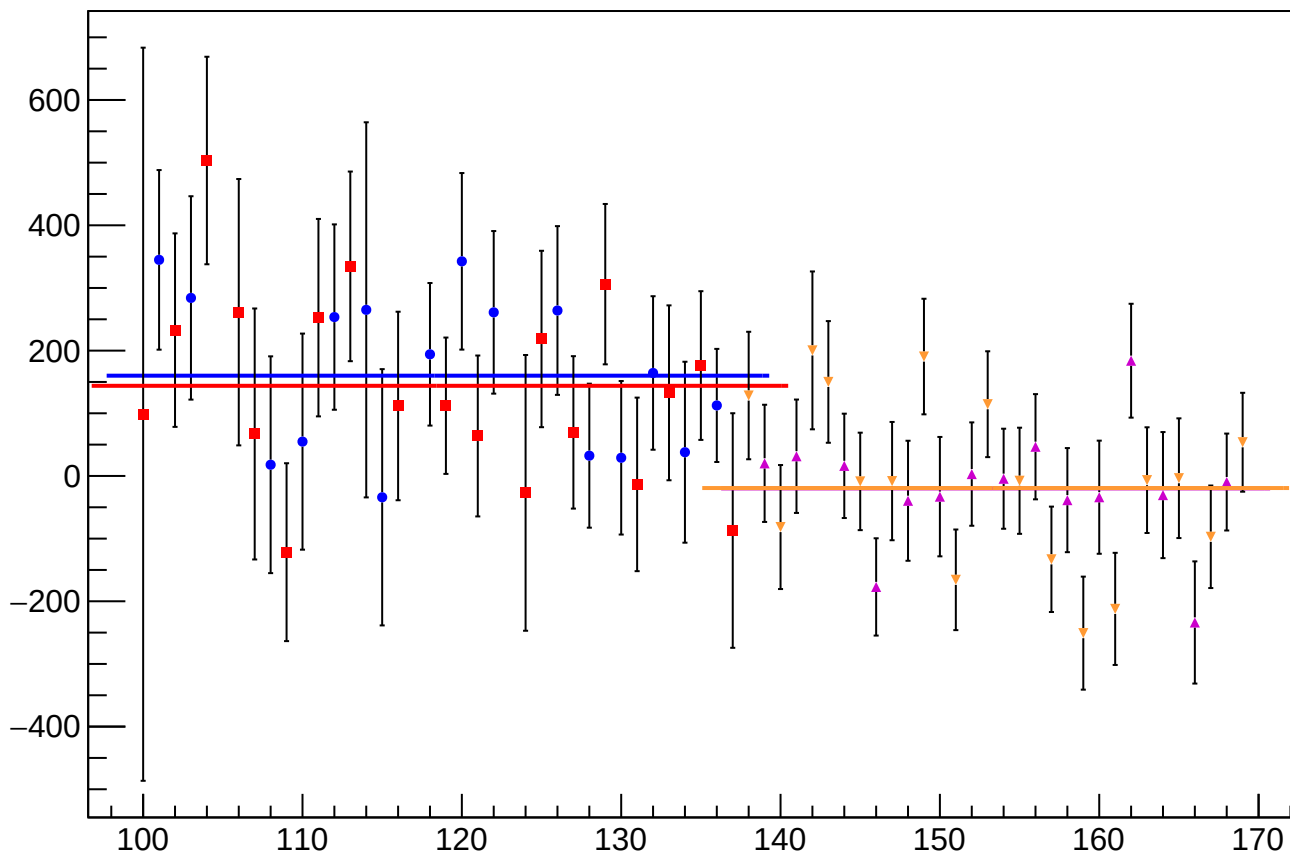
Right: 1479.369 $\pm$ 0.280 χ^2 /NDF: 1205085.6/34

In: 1022.503 $\pm$ 0.169 χ^2 /NDF: 2425554.1/30

Out: 1012.778 $\pm$ 0.163 χ^2 /NDF: 2886561.9/35

All: 1017.459 $\pm$ 0.117 χ^2 /NDF: 5313832.6/66

cor_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 160.020 $\pm$ 34.170 χ^2 /NDF: 11.1/15

Left Out: -19.295 $\pm$ 21.581 χ^2 /NDF:34.5/16

Right Out: 143.862 $\pm$ 34.216 χ^2 /NDF: 17.3/18

Left In: -19.894 $\pm$ 22.521 χ^2 /NDF:15.5/14

Left: -19.582 $\pm$ 15.582 χ^2 /NDF: 50.1/31

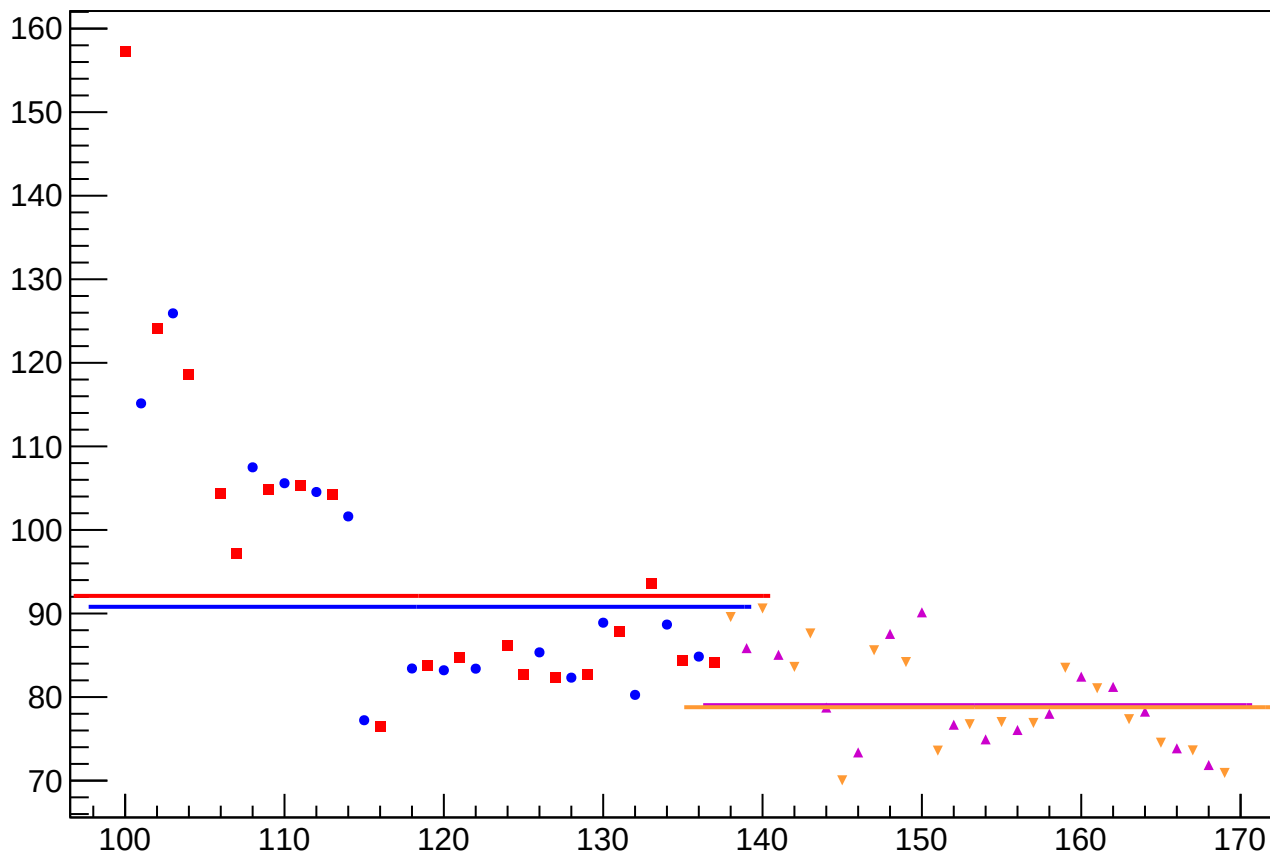
Right: 151.952 $\pm$ 24.178 χ^2 /NDF: 28.5/34

In: 34.591 $\pm$ 18.804 χ^2 /NDF:45.9/30

Out: 27.140 $\pm$ 18.253 χ^2 /NDF:68.1/35

All: 30.755 $\pm$ 13.097 χ^2 /NDF: 114.2/66

cor_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 90.802 $\pm$ 0.024 χ^2 /NDF: 272757.0/15

Left Out: 78.785 $\pm$ 0.015 χ^2 /NDF:163678.1/16

Right Out: 92.108 $\pm$ 0.024 χ^2 /NDF: 300768.0/18

Left In: 79.032 $\pm$ 0.016 χ^2 /NDF:109809.0/14

Left: 78.903 $\pm$ 0.011 χ^2 /NDF: 273613.1/31

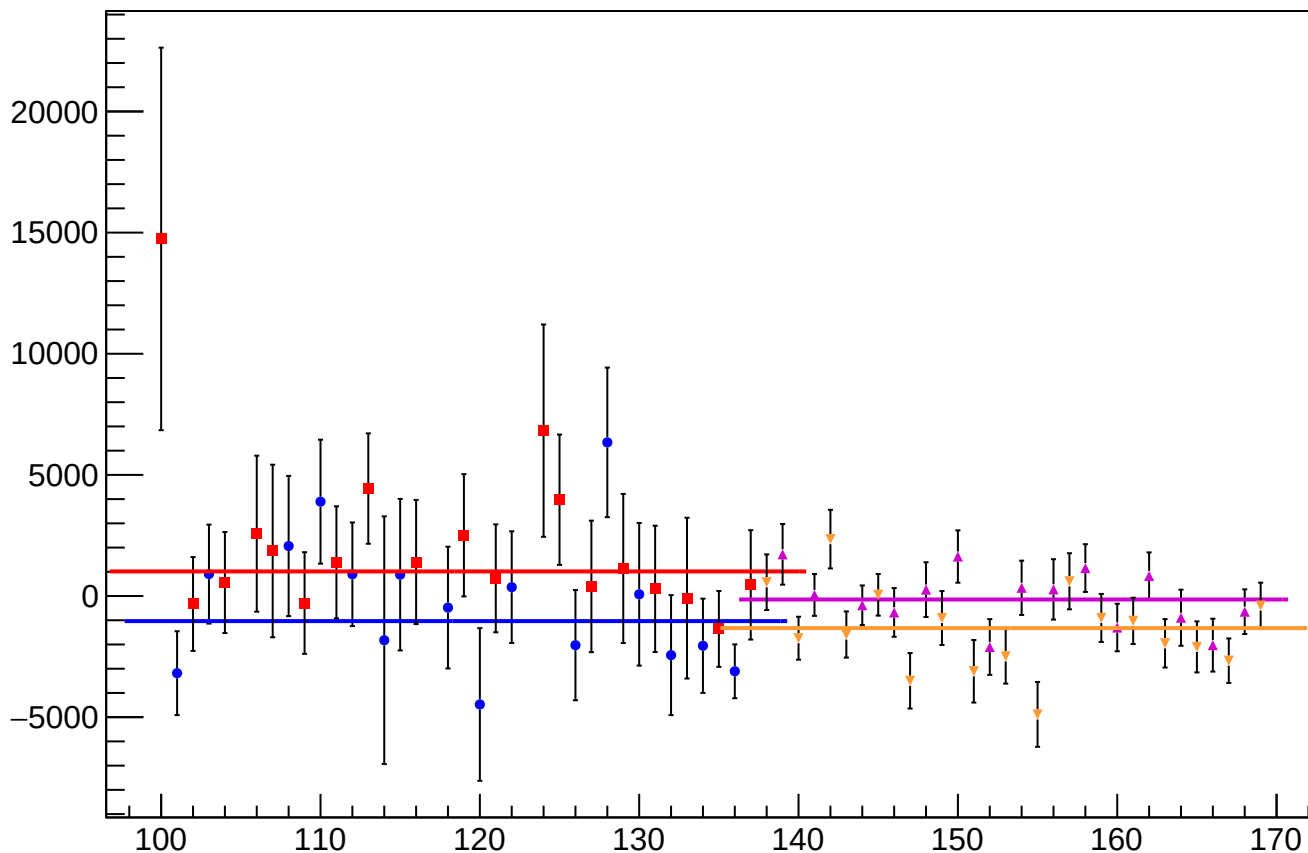
Right: 91.454 $\pm$ 0.017 χ^2 /NDF: 574984.5/34

In: 82.597 $\pm$ 0.013 χ^2 /NDF:547986.2/30

Out: 82.577 $\pm$ 0.013 χ^2 /NDF:681392.9/35

All: 82.586 $\pm$ 0.009 χ^2 /NDF: 1229380.3/66

asym_sam_24_68_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -1035.009 $\pm$ 550.208 χ^2 /NDF: 20.2/15

Left Out: -1324.247 $\pm$ 251.882 χ^2 /NDF:35.7/16

Right Out: 1015.387 $\pm$ 569.773 χ^2 /NDF: 12.5/18

Left In: -143.090 $\pm$ 265.404 χ^2 /NDF:16.5/14

Left: -764.524 $\pm$ 182.701 χ^2 /NDF: 62.6/31

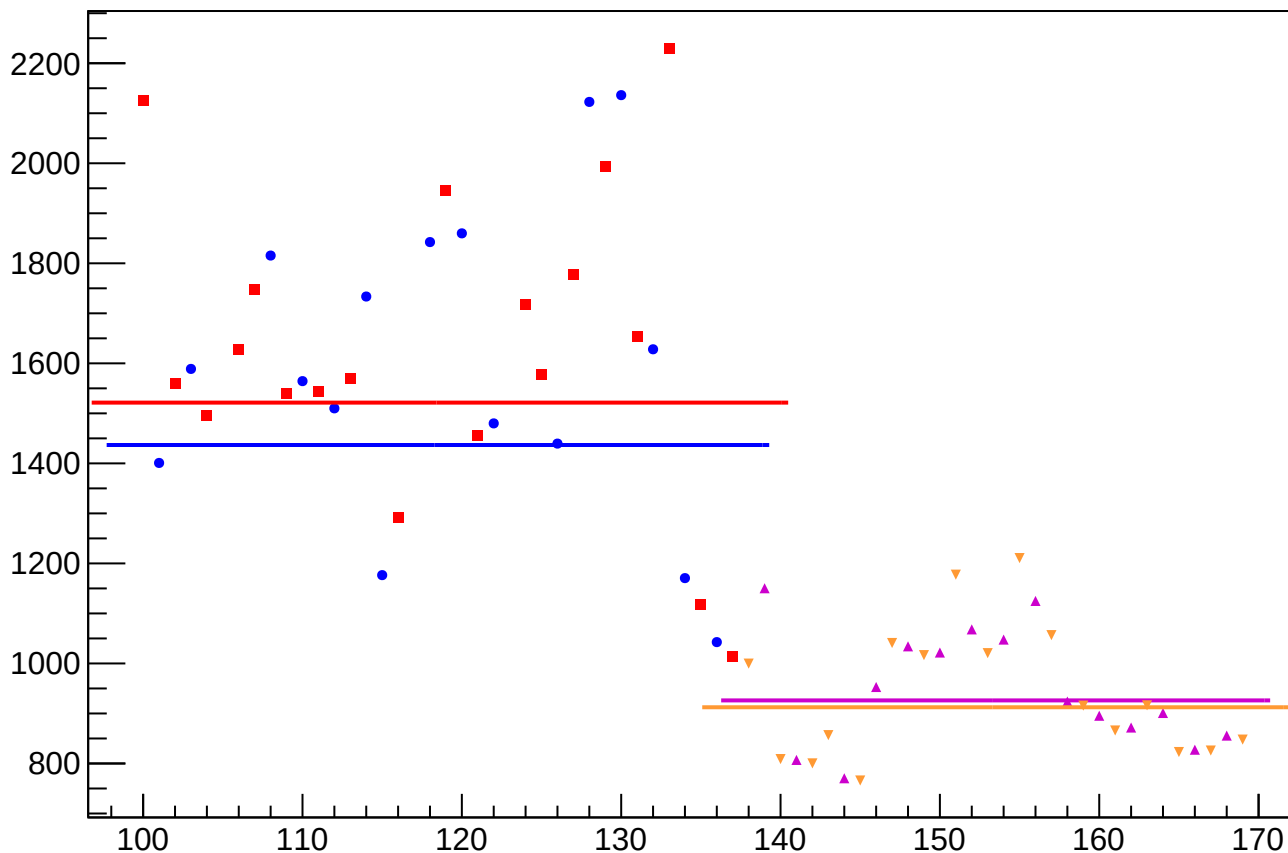
Right: -45.617 $\pm$ 395.792 χ^2 /NDF: 39.4/34

In: -311.449 $\pm$ 239.046 χ^2 /NDF:38.9/30

Out: -941.763 $\pm$ 230.375 χ^2 /NDF:62.3/35

All: -638.245 $\pm$ 165.880 χ^2 /NDF: 104.8/66

asym_sam_24_68_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 1436.738+/-0.389 χ^2/NDF : 675680.8/15

Left Out: 912.388+/-0.178 χ^2/NDF : 443436.8/16

Right Out: 1521.496+/-0.403 χ^2/NDF : 498363.4/18

Left In: 926.119+/-0.188 χ^2/NDF : 352499.6/14

Left: 918.894+/-0.129 χ^2/NDF : 798753.0/31

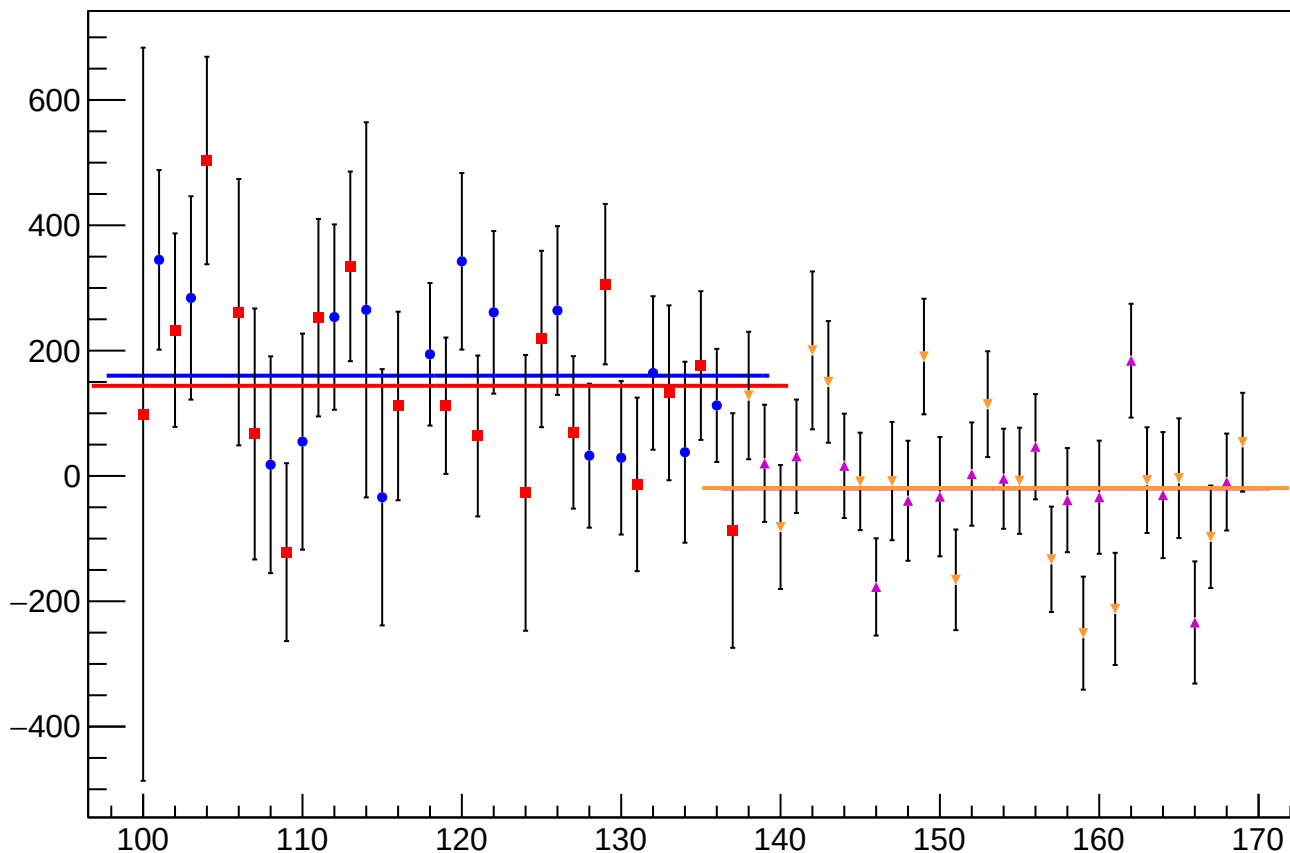
Right: 1477.637+/-0.280 χ^2/NDF : 1196946.2/34

In: 1022.503+/-0.169 χ^2/NDF : 2425573.8/30

Out: 1011.965+/-0.163 χ^2/NDF : 2853819.5/35

All: 1017.039+/-0.117 χ^2/NDF : 5281408.5/66

eigen_cor_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 160.020 $\pm$ 34.170 χ^2 /NDF: 11.1/15

Left Out: -19.295 $\pm$ 21.581 χ^2 /NDF:34.5/16

Right Out: 143.862 $\pm$ 34.216 χ^2 /NDF: 17.3/18

Left In: -19.894 $\pm$ 22.521 χ^2 /NDF:15.5/14

Left: -19.582 $\pm$ 15.582 χ^2 /NDF: 50.1/31

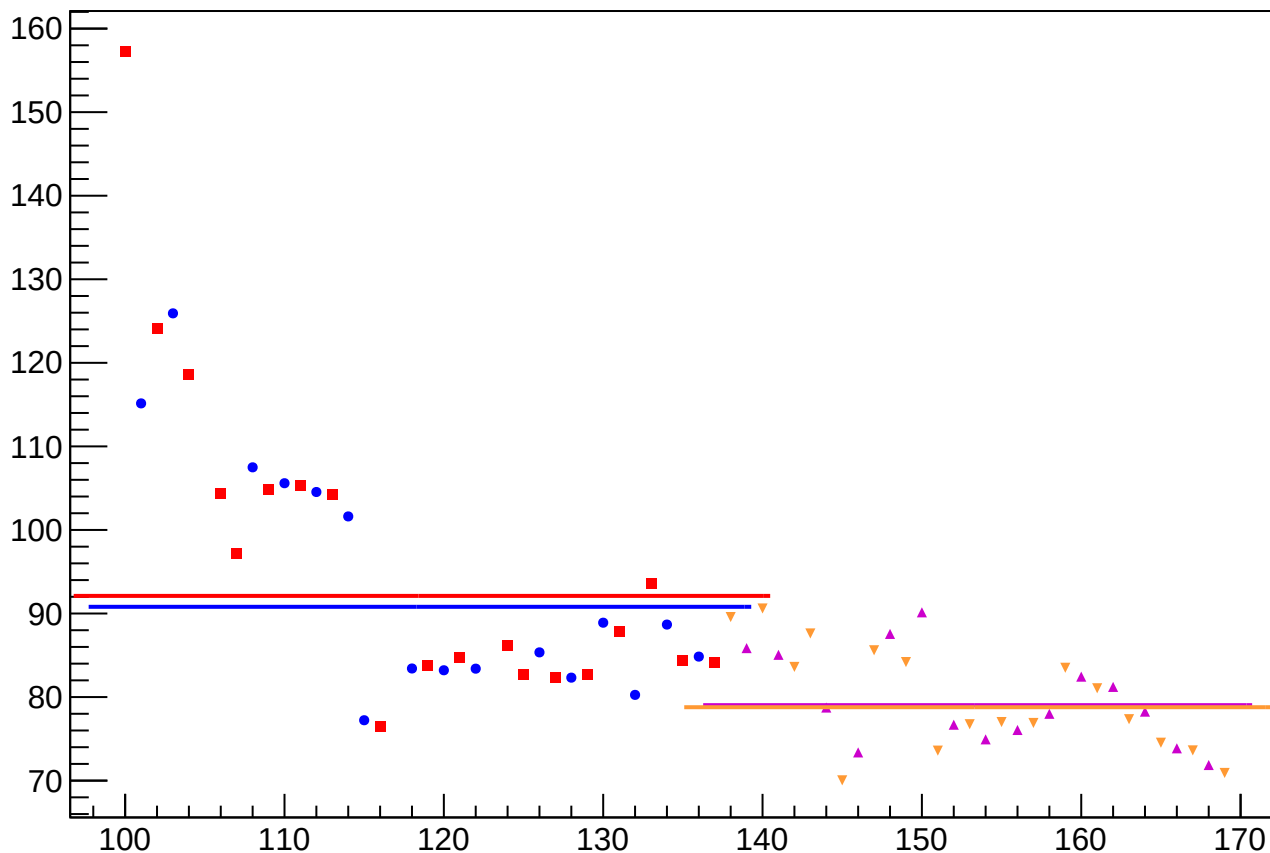
Right: 151.952 $\pm$ 24.178 χ^2 /NDF: 28.5/34

In: 34.591 $\pm$ 18.804 χ^2 /NDF:45.9/30

Out: 27.140 $\pm$ 18.253 χ^2 /NDF:68.1/35

All: 30.755 $\pm$ 13.097 χ^2 /NDF: 114.2/66

eigen_cor_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 90.802 $\pm$ 0.024 χ^2 /NDF: 272757.0/15

Left Out: 78.785 $\pm$ 0.015 χ^2 /NDF: 163678.1/16

Right Out: 92.108 $\pm$ 0.024 χ^2 /NDF: 300768.0/18

Left In: 79.032 $\pm$ 0.016 χ^2 /NDF: 109809.0/14

Left: 78.903 $\pm$ 0.011 χ^2 /NDF: 273613.1/31

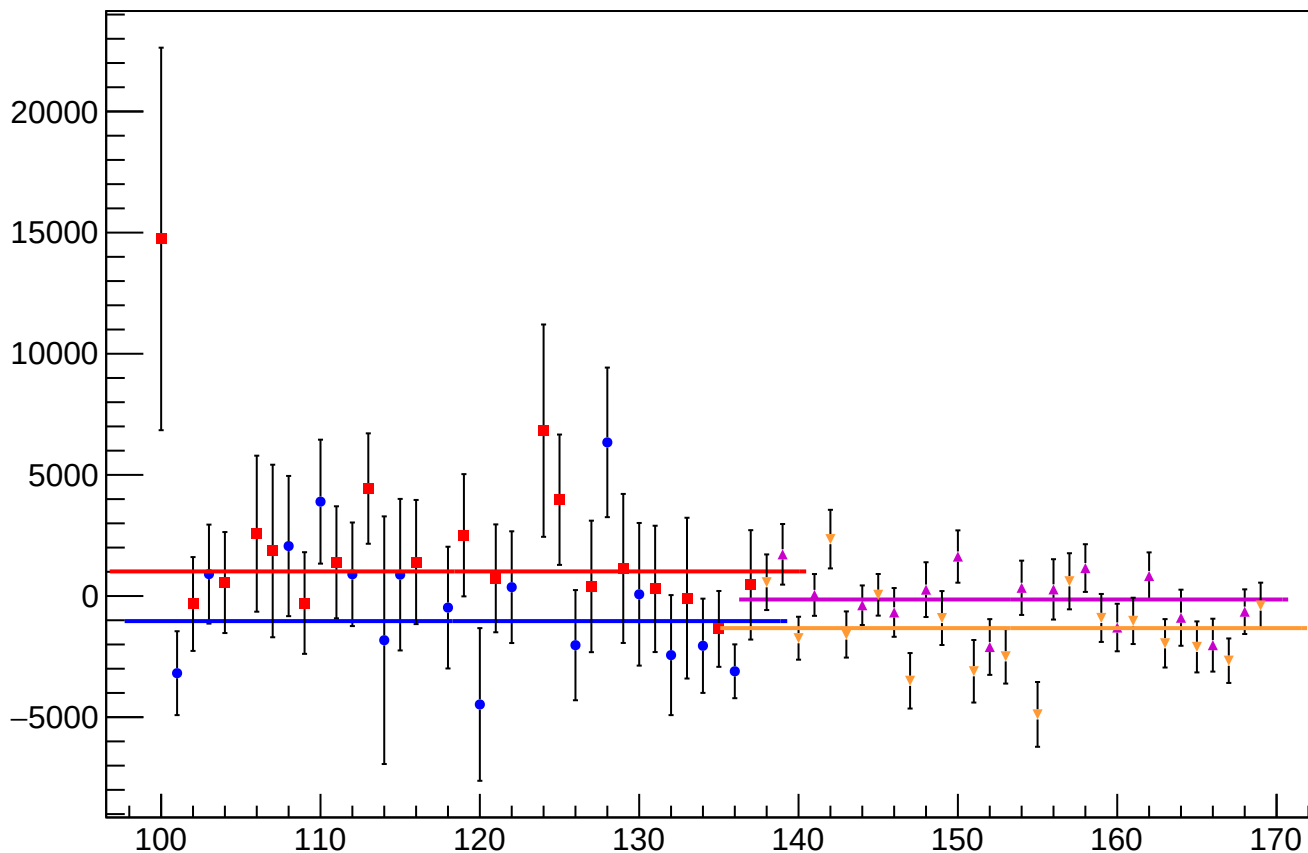
Right: 91.454 $\pm$ 0.017 χ^2 /NDF: 574984.5/34

In: 82.597 $\pm$ 0.013 χ^2 /NDF: 547986.2/30

Out: 82.577 $\pm$ 0.013 χ^2 /NDF: 681392.9/35

All: 82.586 $\pm$ 0.009 χ^2 /NDF: 1229380.3/66

asym_sam_24_68_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -1035.009 $\pm$ 550.208 χ^2 /NDF: 20.2/15

Left Out: -1324.247 $\pm$ 251.882 χ^2 /NDF:35.7/16

Right Out: 1015.387 $\pm$ 569.773 χ^2 /NDF: 12.5/18

Left In: -143.090 $\pm$ 265.404 χ^2 /NDF:16.5/14

Left: -764.524 $\pm$ 182.701 χ^2 /NDF: 62.6/31

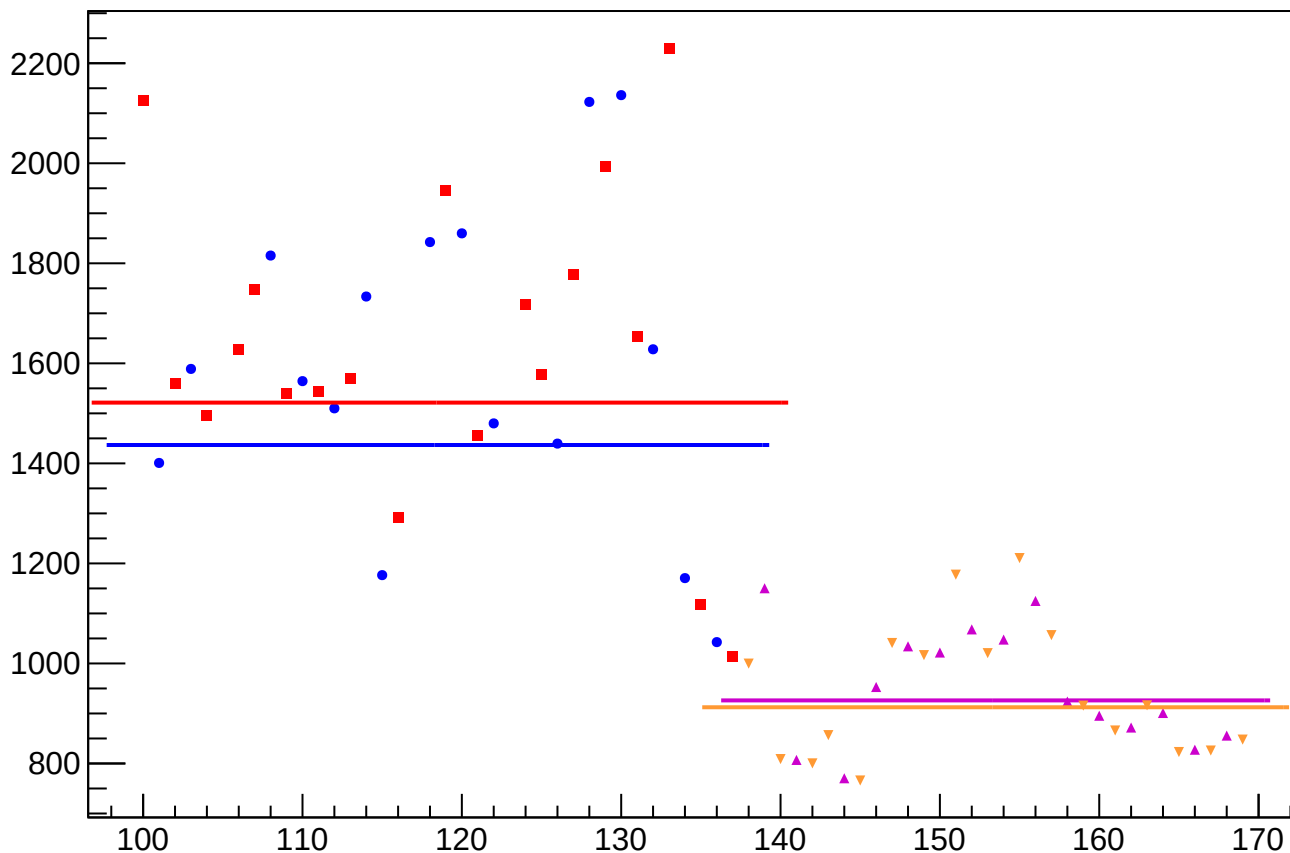
Right: -45.617 $\pm$ 395.792 χ^2 /NDF: 39.4/34

In: -311.449 $\pm$ 239.046 χ^2 /NDF:38.9/30

Out: -941.763 $\pm$ 230.375 χ^2 /NDF:62.3/35

All: -638.245 $\pm$ 165.880 χ^2 /NDF: 104.8/66

asym_sam_24_68_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1436.738 $\pm$ 0.389 χ^2 /NDF: 675680.8/15

Left Out: 912.388 $\pm$ 0.178 χ^2 /NDF: 443436.8/16

Right Out: 1521.496 $\pm$ 0.403 χ^2 /NDF: 498363.4/18

Left In: 926.119 $\pm$ 0.188 χ^2 /NDF: 352499.6/14

Left: 918.894 $\pm$ 0.129 χ^2 /NDF: 798753.0/31

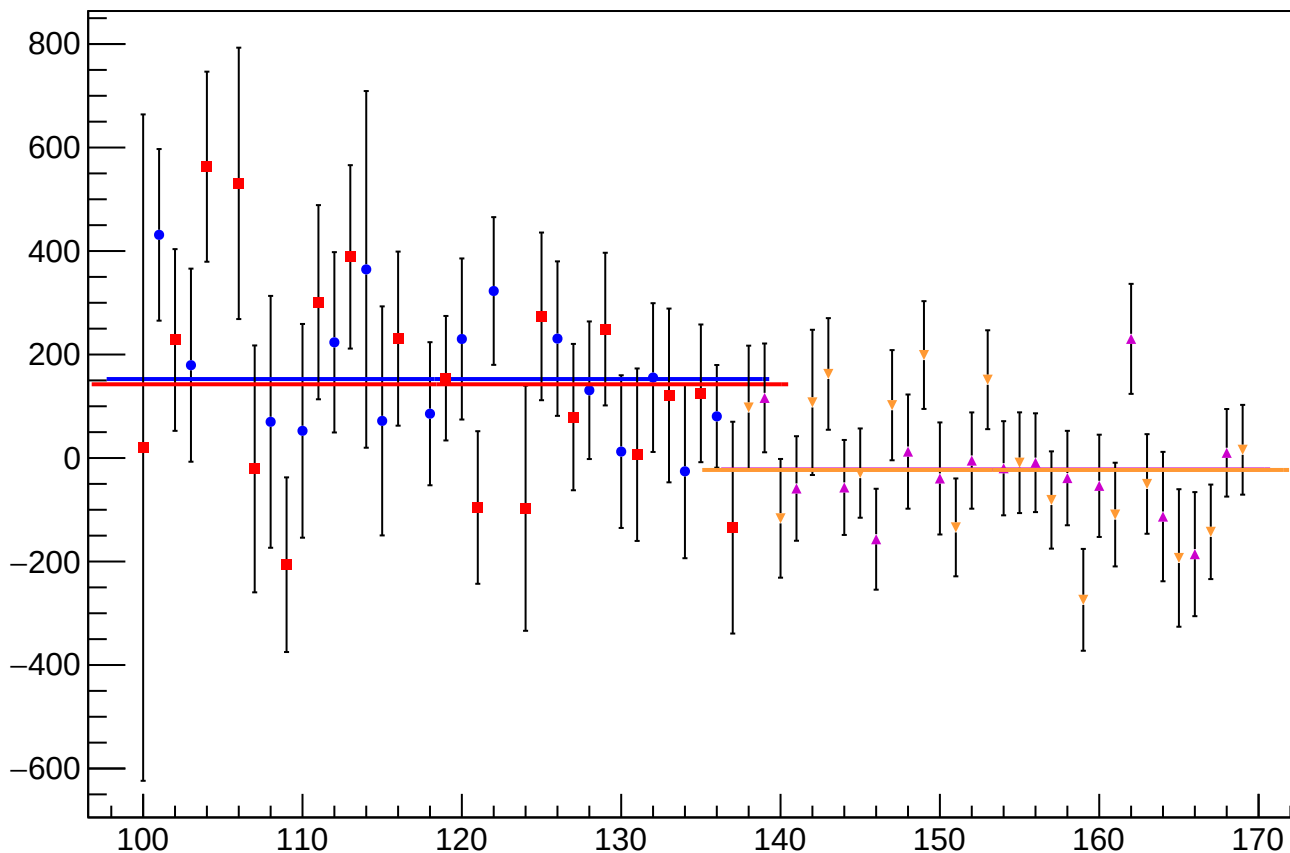
Right: 1477.637 $\pm$ 0.280 χ^2 /NDF: 1196946.2/34

In: 1022.503 $\pm$ 0.169 χ^2 /NDF: 2425573.8/30

Out: 1011.965 $\pm$ 0.163 χ^2 /NDF: 2853819.5/35

All: 1017.039 $\pm$ 0.117 χ^2 /NDF: 5281408.5/66

dit_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 152.626 $\pm$ 39.446 χ^2 /NDF: 8.6/15

Left Out: -23.049 $\pm$ 24.560 χ^2 /NDF:27.4/16

Right Out: 142.496 $\pm$ 39.340 χ^2 /NDF: 22.9/18

Left In: -22.072 $\pm$ 25.734 χ^2 /NDF:12.4/14

Left: -22.583 $\pm$ 17.767 χ^2 /NDF: 39.8/31

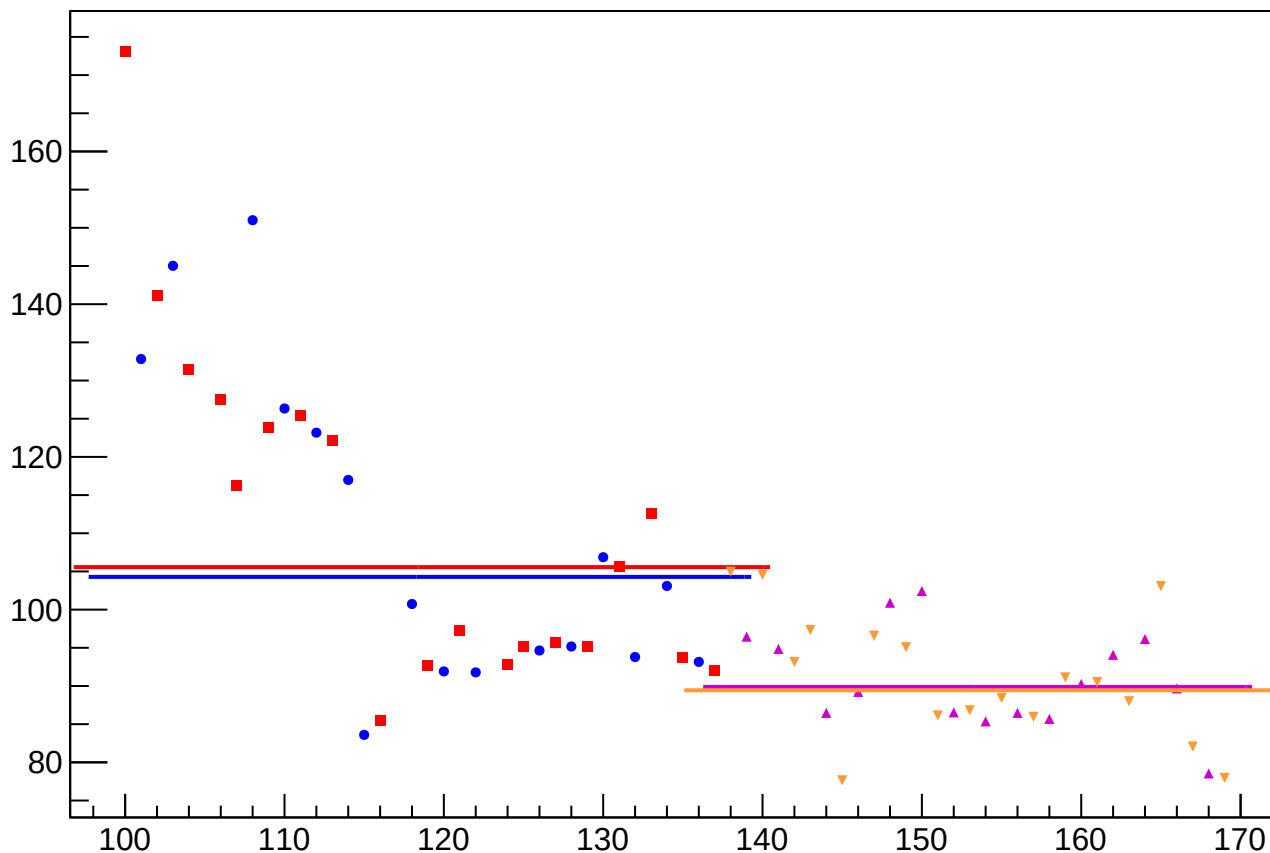
Right: 147.548 $\pm$ 27.855 χ^2 /NDF: 31.6/34

In: 30.081 $\pm$ 21.553 χ^2 /NDF:34.8/30

Out: 23.376 $\pm$ 20.833 χ^2 /NDF:63.1/35

All: 26.615 $\pm$ 14.979 χ^2 /NDF: 97.9/66

dit_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 104.286 $\pm$ 0.028 χ^2 /NDF: 378310.9/15

Left Out: 89.439 $\pm$ 0.017 χ^2 /NDF:210160.2/16

Right Out: 105.568 $\pm$ 0.028 χ^2 /NDF: 344605.9/18

Left In: 89.878 $\pm$ 0.018 χ^2 /NDF:120713.9/14

Left: 89.648 $\pm$ 0.013 χ^2 /NDF: 331179.1/31

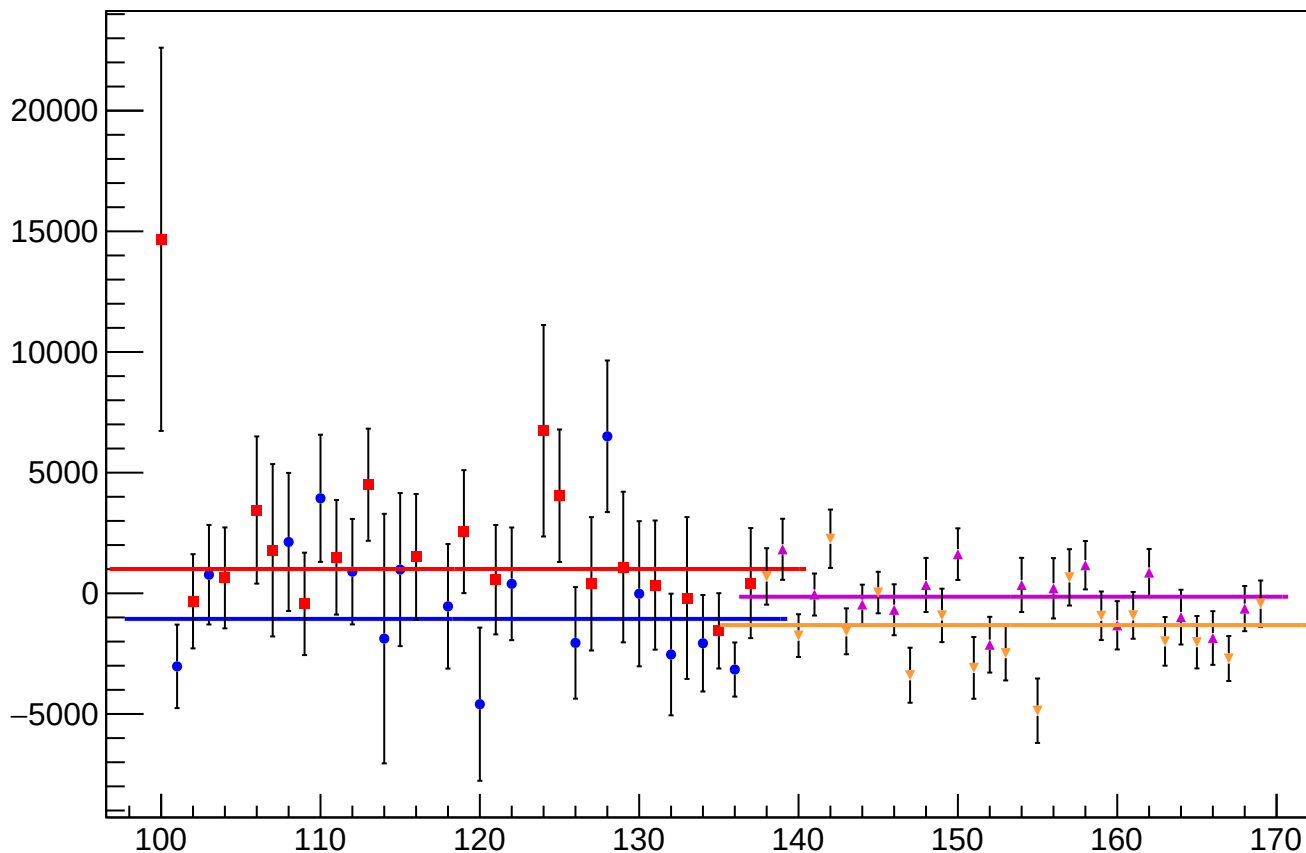
Right: 104.929 $\pm$ 0.020 χ^2 /NDF: 723975.9/34

In: 94.179 $\pm$ 0.015 χ^2 /NDF:686197.4/30

Out: 93.962 $\pm$ 0.015 χ^2 /NDF:796681.3/35

All: 94.067 $\pm$ 0.011 χ^2 /NDF: 1482983.7/66

asym_sam_24_68_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -1059.357 ± 557.645 $\chi^2/\text{NDF}: 20.0/15$

Left Out: -1315.085 ± 253.616 $\chi^2/\text{NDF}: 35.1/16$

Right Out: 1009.907 ± 575.100 $\chi^2/\text{NDF}: 13.3/18$

Left In: -141.091 ± 267.736 $\chi^2/\text{NDF}: 16.3/14$

Left: -759.862 ± 184.123 $\chi^2/\text{NDF}: 61.6/31$

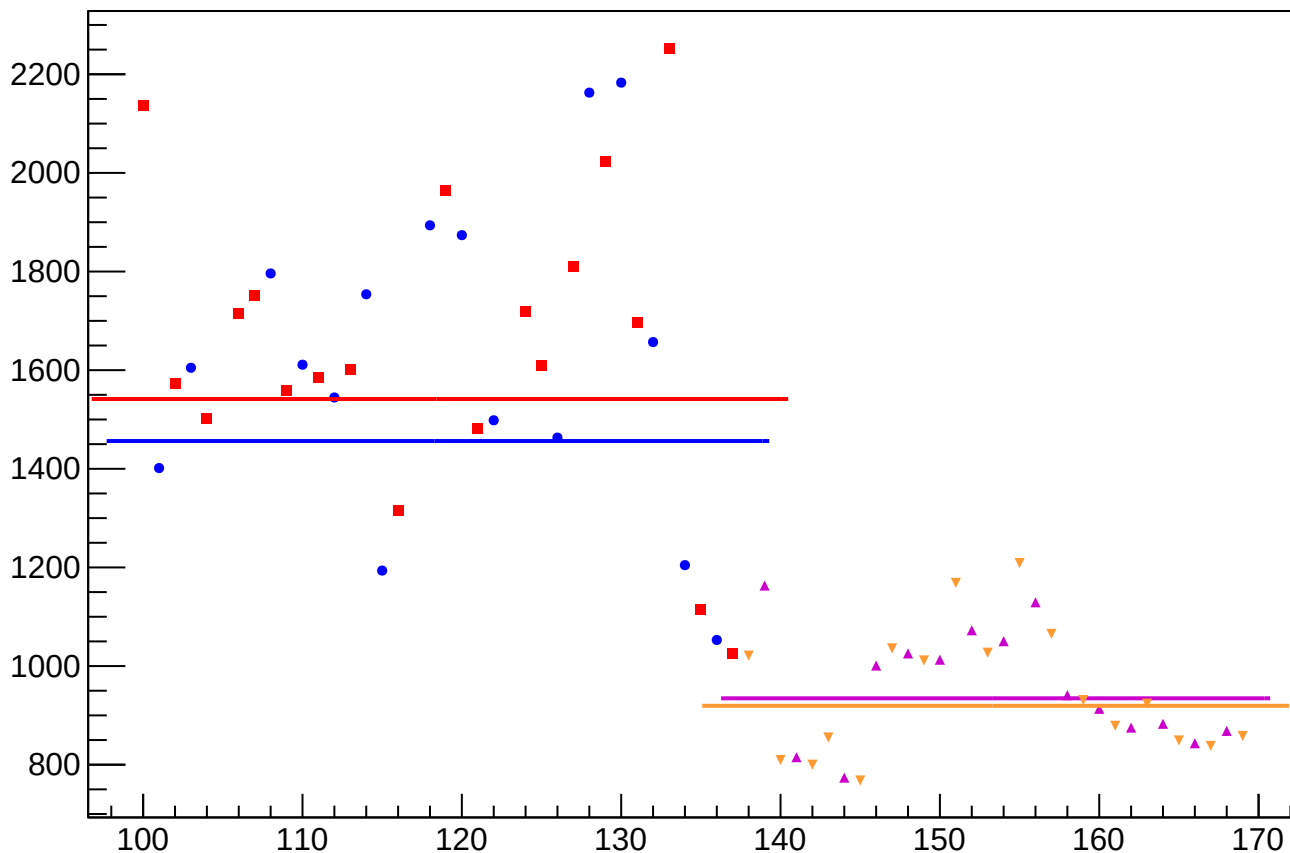
Right: -56.604 ± 400.343 $\chi^2/\text{NDF}: 40.0/34$

In: -313.112 ± 241.359 $\chi^2/\text{NDF}: 38.6/30$

Out: -936.546 ± 232.053 $\chi^2/\text{NDF}: 62.1/35$

All: -637.080 ± 167.280 $\chi^2/\text{NDF}: 104.1/66$

asym_sam_24_68_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 1456.303+/-0.394 χ^2/NDF : 684806.5/15

Left Out: 919.435+/-0.179 χ^2/NDF : 426029.0/16

Right Out: 1541.522+/-0.407 χ^2/NDF : 519336.6/18

Left In: 934.632+/-0.189 χ^2/NDF : 346012.3/14

Left: 926.622+/-0.130 χ^2/NDF : 775437.3/31

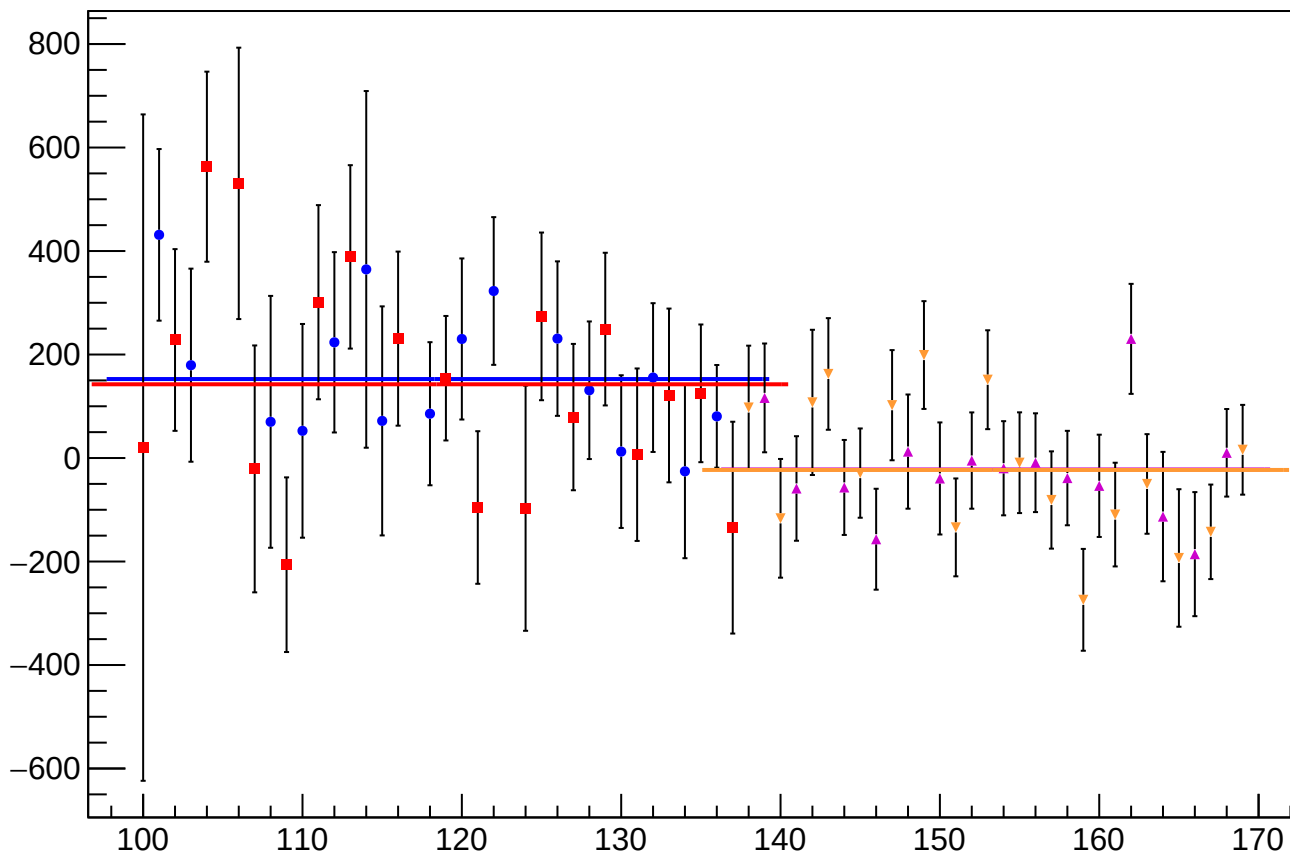
Right: 1497.600+/-0.283 χ^2/NDF : 1226777.5/34

In: 1032.357+/-0.171 χ^2/NDF : 2453219.8/30

Out: 1020.719+/-0.164 χ^2/NDF : 2904520.1/35

All: 1026.309+/-0.118 χ^2/NDF : 5360156.7/66

eigen_dit_asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 152.628 $\pm$ 39.446 χ^2 /NDF: 8.6/15

Left Out: -23.048 $\pm$ 24.560 χ^2 /NDF:27.4/16

Right Out: 142.494 $\pm$ 39.340 χ^2 /NDF: 22.9/18

Left In: -22.073 $\pm$ 25.734 χ^2 /NDF:12.4/14

Left: -22.584 $\pm$ 17.767 χ^2 /NDF: 39.8/31

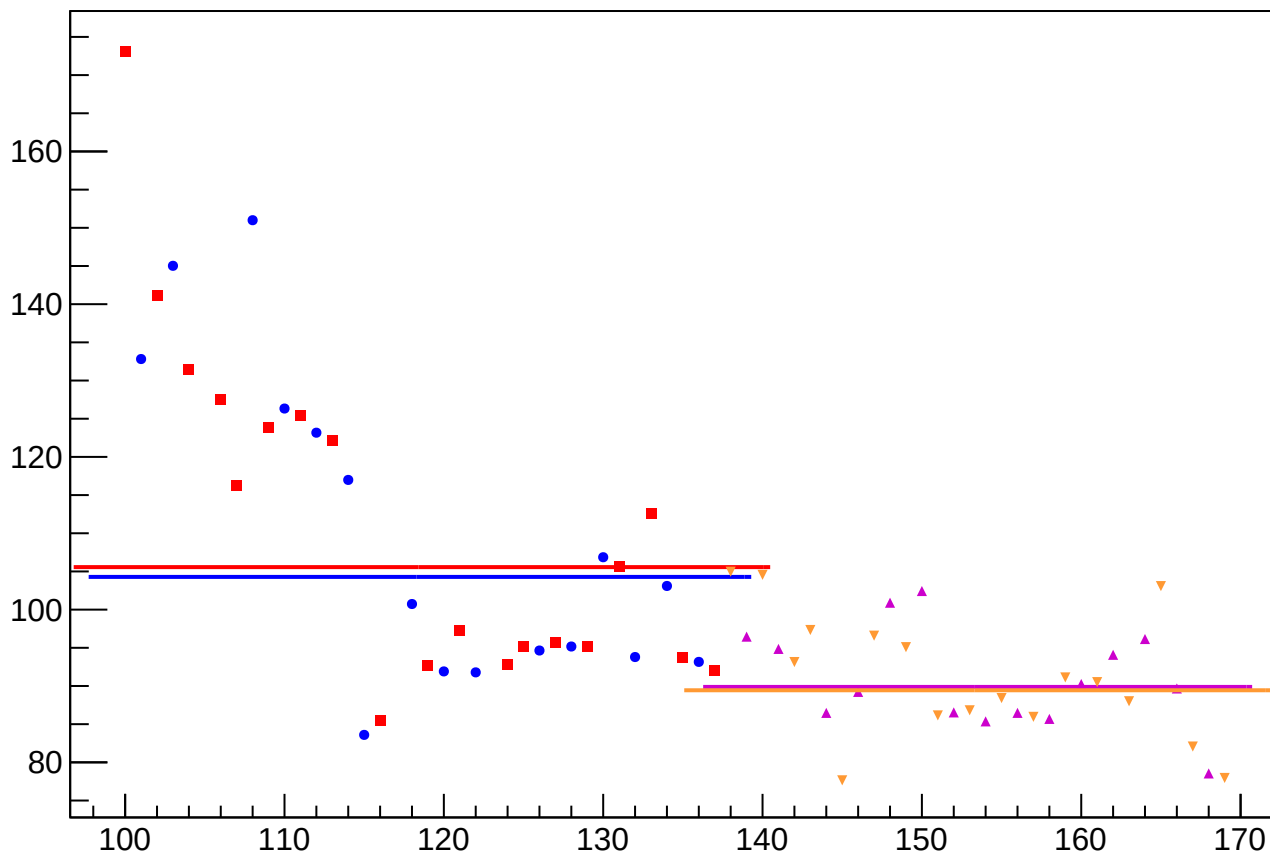
Right: 147.548 $\pm$ 27.855 χ^2 /NDF: 31.6/34

In: 30.082 $\pm$ 21.553 χ^2 /NDF:34.8/30

Out: 23.377 $\pm$ 20.833 χ^2 /NDF:63.1/35

All: 26.615 $\pm$ 14.979 χ^2 /NDF: 97.9/66

eigen_dit_asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 104.285 $\pm$ 0.028 χ^2 /NDF: 378313.2/15

Left Out: 89.439 $\pm$ 0.017 χ^2 /NDF:210158.5/16

Right Out: 105.567 $\pm$ 0.028 χ^2 /NDF: 344605.1/18

Left In: 89.878 $\pm$ 0.018 χ^2 /NDF:120714.8/14

Left: 89.648 $\pm$ 0.013 χ^2 /NDF: 331178.3/31

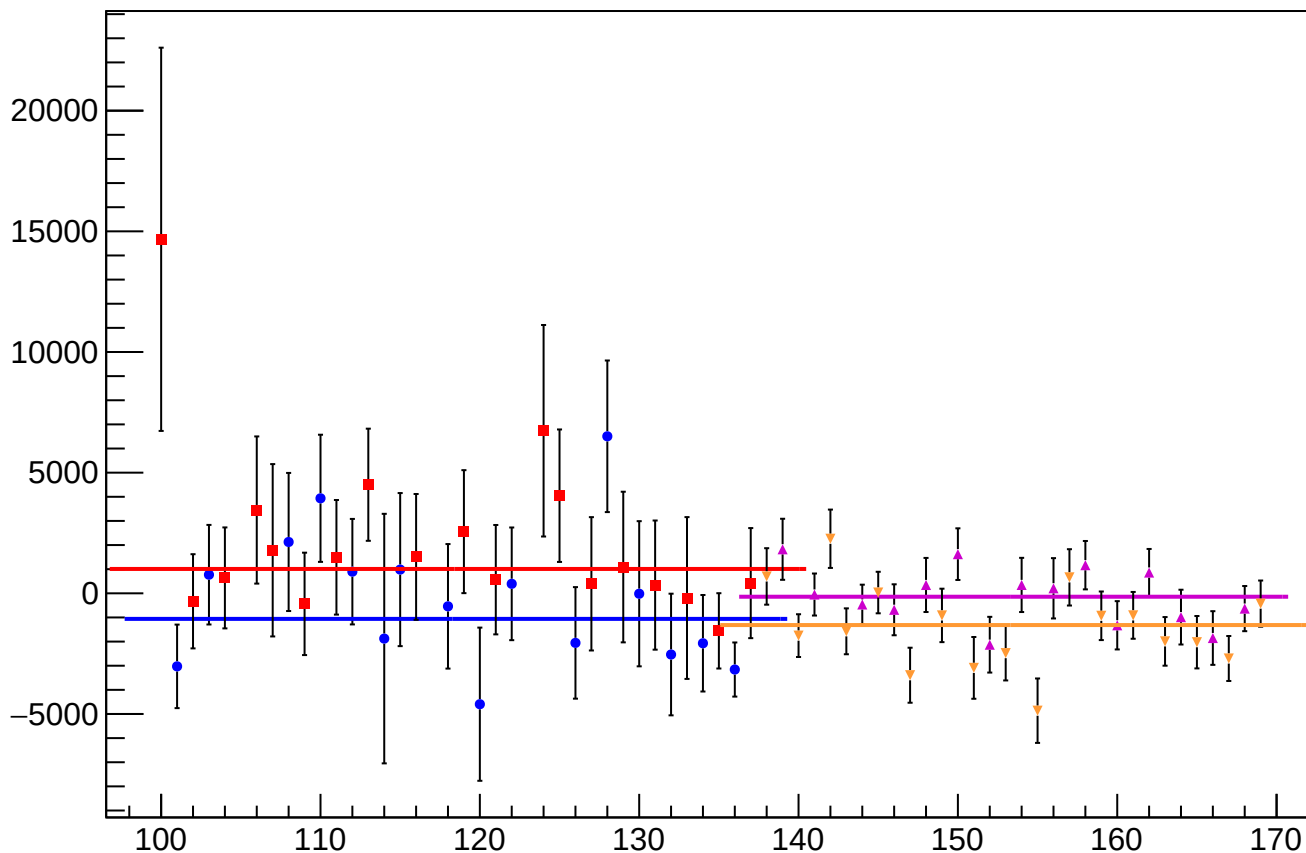
Right: 104.928 $\pm$ 0.020 χ^2 /NDF: 723977.9/34

In: 94.179 $\pm$ 0.015 χ^2 /NDF:686177.5/30

Out: 93.962 $\pm$ 0.015 χ^2 /NDF:796656.7/35

All: 94.067 $\pm$ 0.011 χ^2 /NDF: 1482939.1/66

asym_sam_24_68_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -1059.353 ± 557.644 $\chi^2/\text{NDF}: 20.0/15$

Left Out: -1315.084 ± 253.615 $\chi^2/\text{NDF}: 35.1/16$

Right Out: 1009.907 ± 575.099 $\chi^2/\text{NDF}: 13.3/18$

Left In: -141.092 ± 267.736 $\chi^2/\text{NDF}: 16.3/14$

Left: -759.862 ± 184.123 $\chi^2/\text{NDF}: 61.6/31$

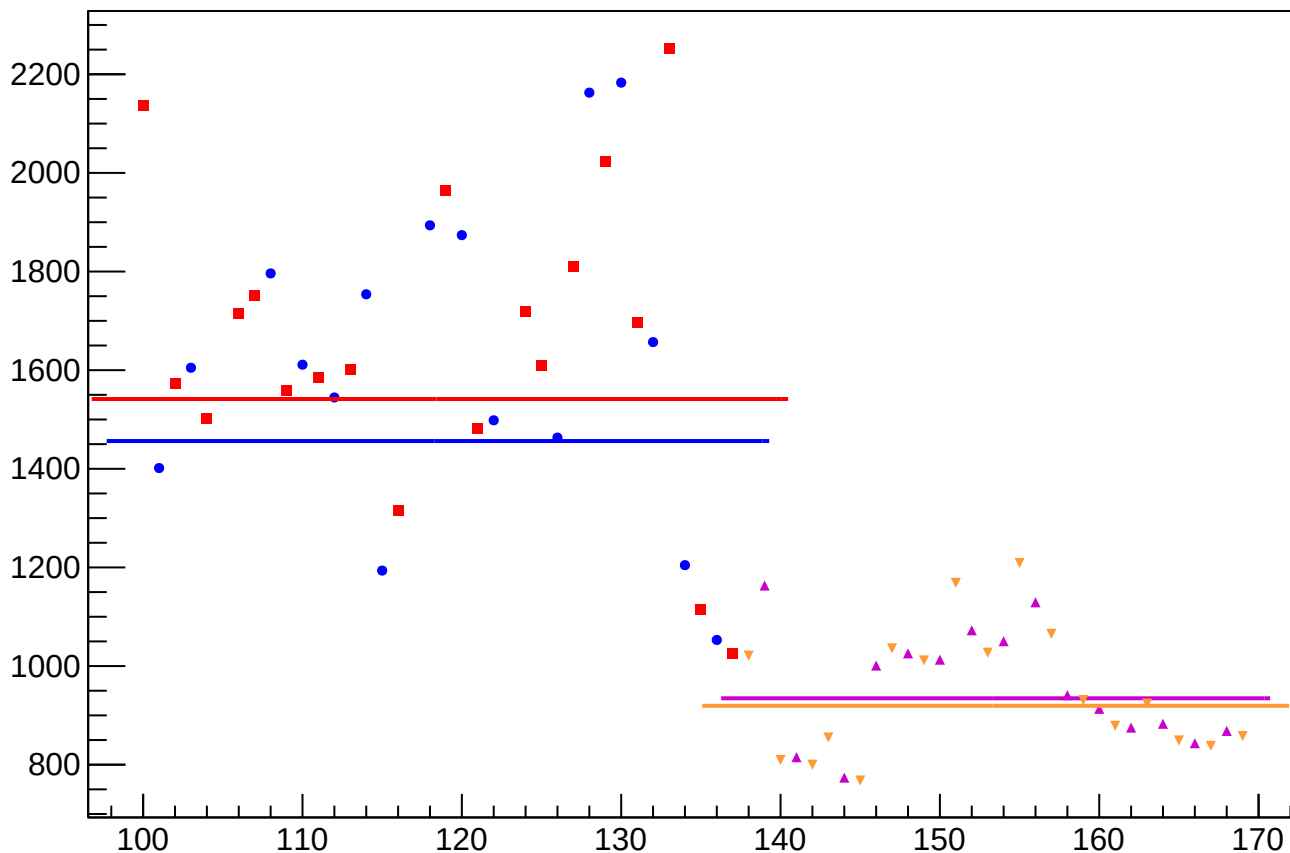
Right: -56.602 ± 400.342 $\chi^2/\text{NDF}: 40.0/34$

In: -313.112 ± 241.359 $\chi^2/\text{NDF}: 38.6/30$

Out: -936.545 ± 232.053 $\chi^2/\text{NDF}: 62.1/35$

All: -637.079 ± 167.279 $\chi^2/\text{NDF}: 104.1/66$

asym_sam_24_68_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1456.301+/-0.394 χ^2/NDF : 684803.6/15

Left Out: 919.434+/-0.179 χ^2/NDF : 426032.7/16

Right Out: 1541.520+/-0.407 χ^2/NDF : 519336.6/18

Left In: 934.631+/-0.189 χ^2/NDF : 346014.0/14

Left: 926.621+/-0.130 χ^2/NDF : 775442.8/31

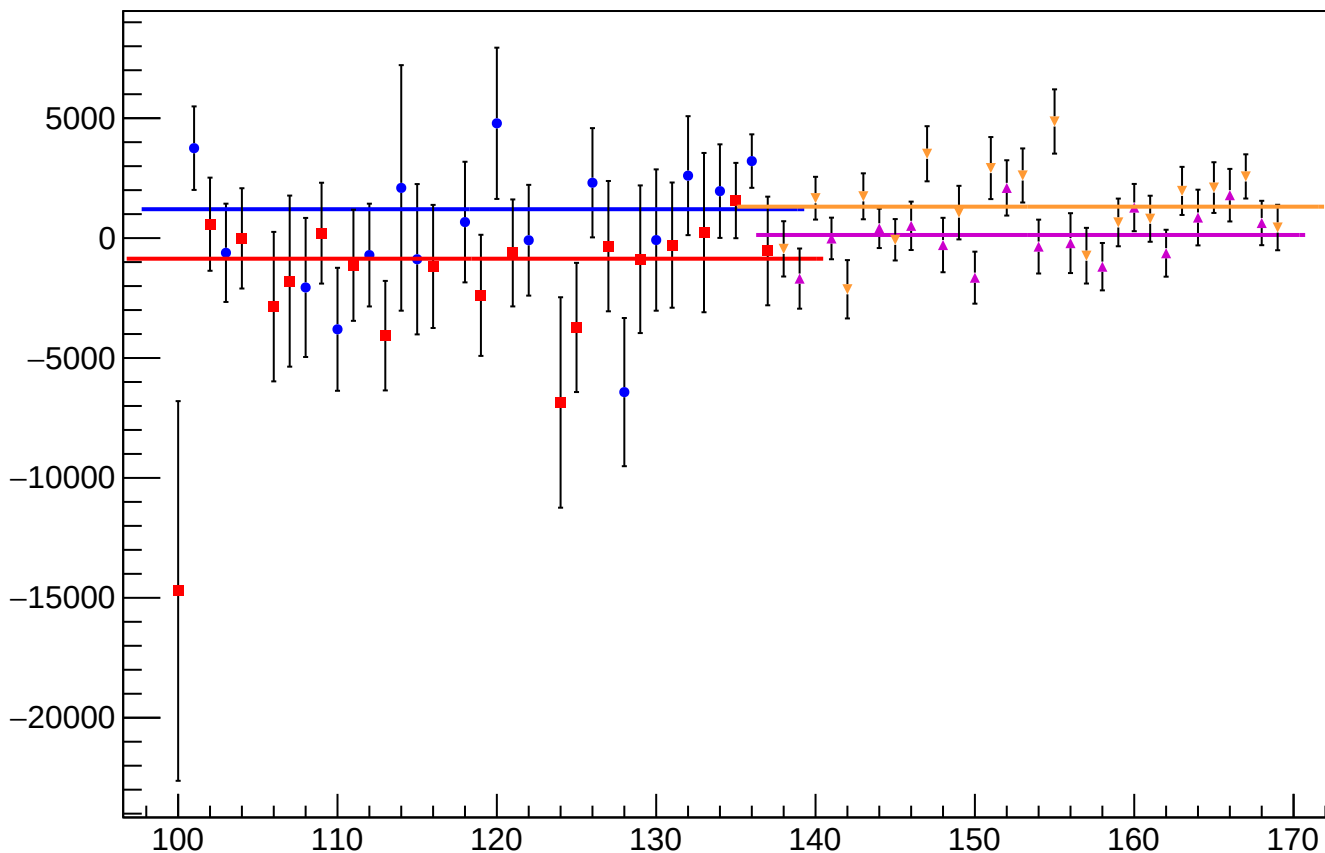
Right: 1497.597+/-0.283 χ^2/NDF : 1226774.5/34

In: 1032.356+/-0.171 χ^2/NDF : 2453214.8/30

Out: 1020.718+/-0.164 χ^2/NDF : 2904518.8/35

All: 1026.308+/-0.118 χ^2/NDF : 5360150.4/66

asym_sam_24_68_dd_mean vs Slug, Sign Corrected



Right In: 1204.691 $\pm$ 551.729 χ^2 /NDF: 21.1/15

Left Out: 1310.657 $\pm$ 252.911 χ^2 /NDF:34.4/16

Right Out: -859.290 $\pm$ 570.391 χ^2 /NDF: 12.5/18

Left In: 130.415 $\pm$ 266.447 χ^2 /NDF:15.1/14

Left: 751.275 $\pm$ 183.434 χ^2 /NDF: 59.8/31

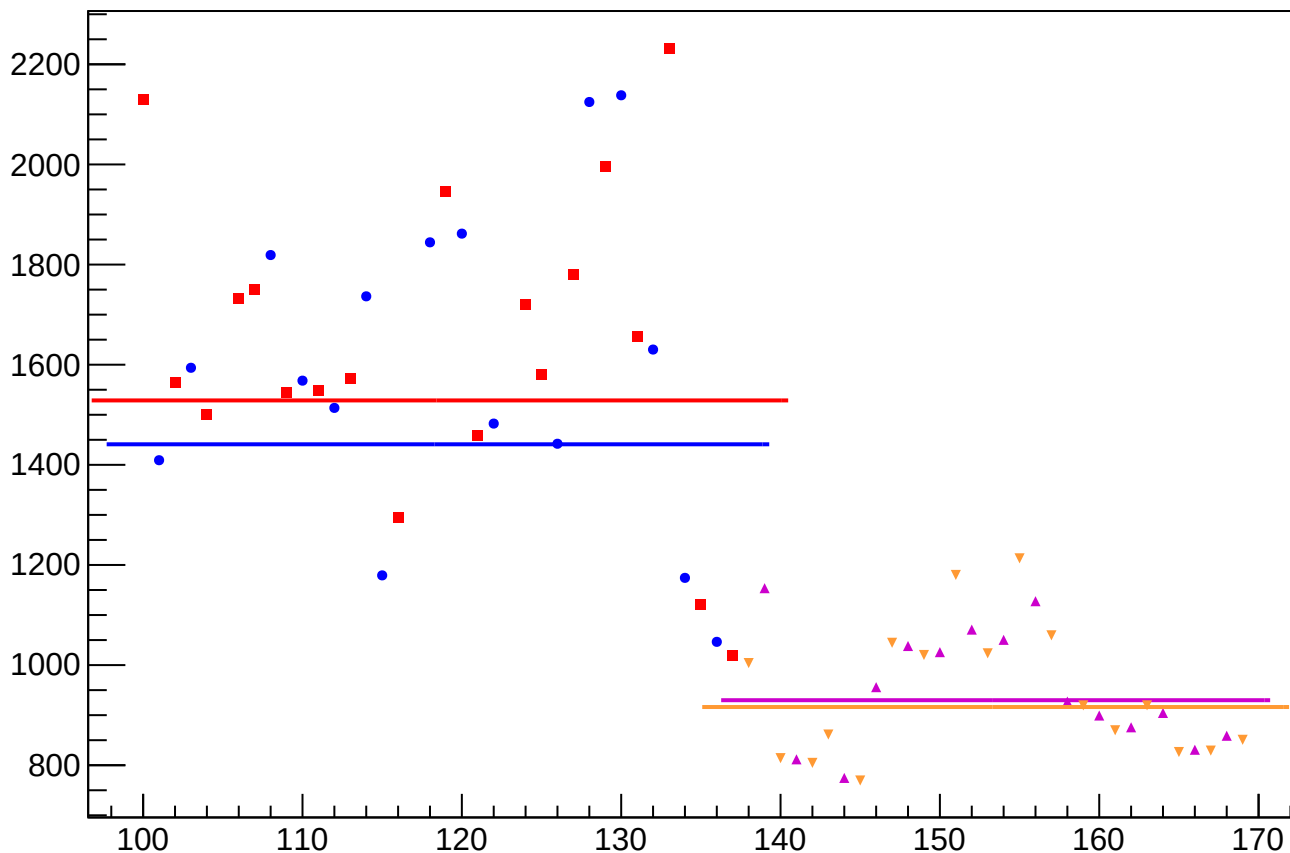
Right: 207.019 $\pm$ 396.565 χ^2 /NDF: 40.4/34

In: 333.578 $\pm$ 239.933 χ^2 /NDF:39.3/30

Out: 954.132 $\pm$ 231.203 χ^2 /NDF:59.0/35

All: 655.350 $\pm$ 166.486 χ^2 /NDF: 101.8/66

asym_sam_24_68_dd_rms vs Slug, Sign Corrected



Right In: 1441.025+/-0.390 χ^2/NDF : 670674.6/15

Left Out: 916.258+/-0.179 χ^2/NDF : 437772.5/16

Right Out: 1528.652+/-0.403 χ^2/NDF : 501717.6/18

Left In: 929.878+/-0.188 χ^2/NDF : 347624.6/14

Left: 922.714+/-0.130 χ^2/NDF : 788146.2/31

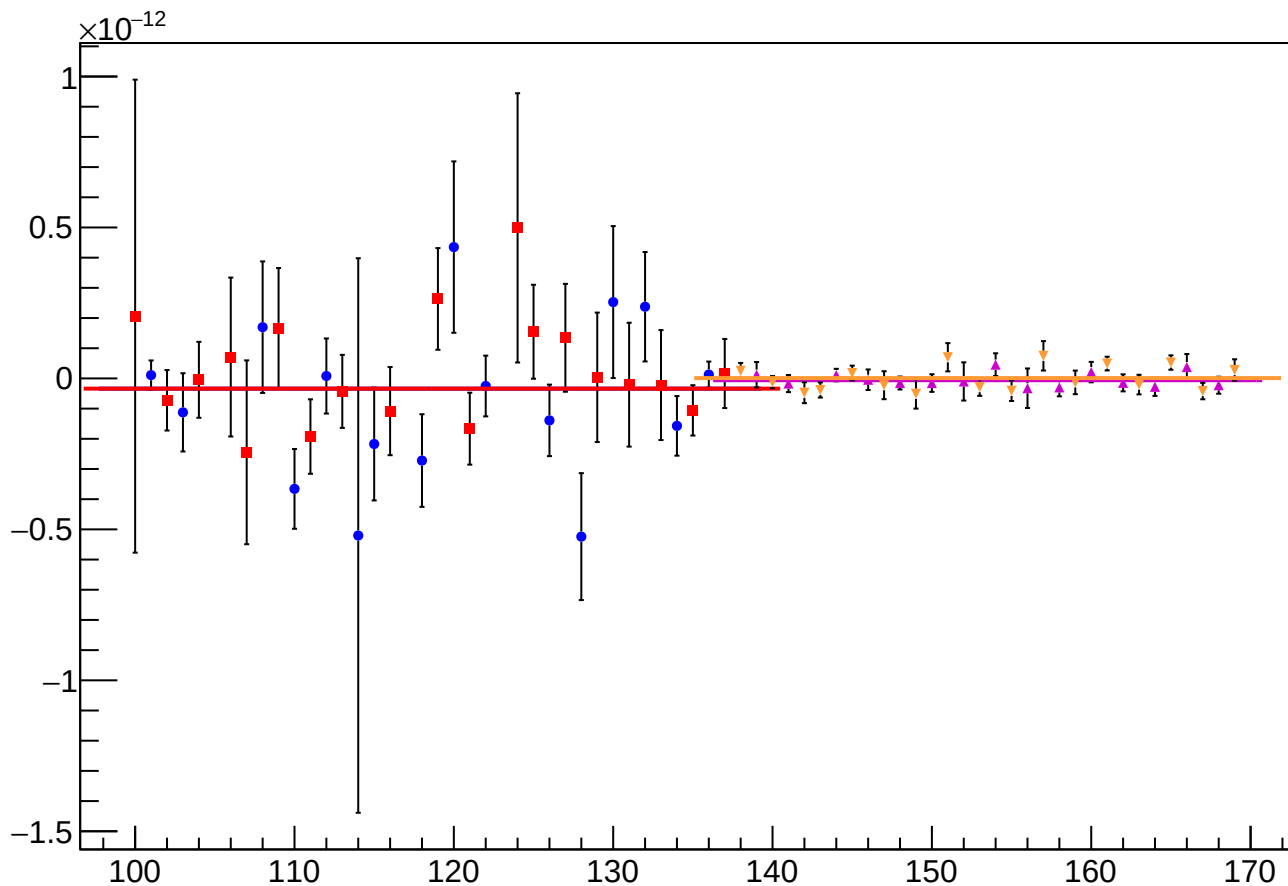
Right: 1483.381+/-0.280 χ^2/NDF : 1196778.1/34

In: 1026.545+/-0.170 χ^2/NDF : 2410262.8/30

Out: 1016.875+/-0.163 χ^2/NDF : 2866105.9/35

All: 1021.531+/-0.118 χ^2/NDF : 5278053.1/66

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 27.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 27.4/16

Right Out: -0.000+/-0.000 χ^2/NDF : 13.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 6.6/14

Left: -0.000+/-0.000 χ^2/NDF : 34.4/31

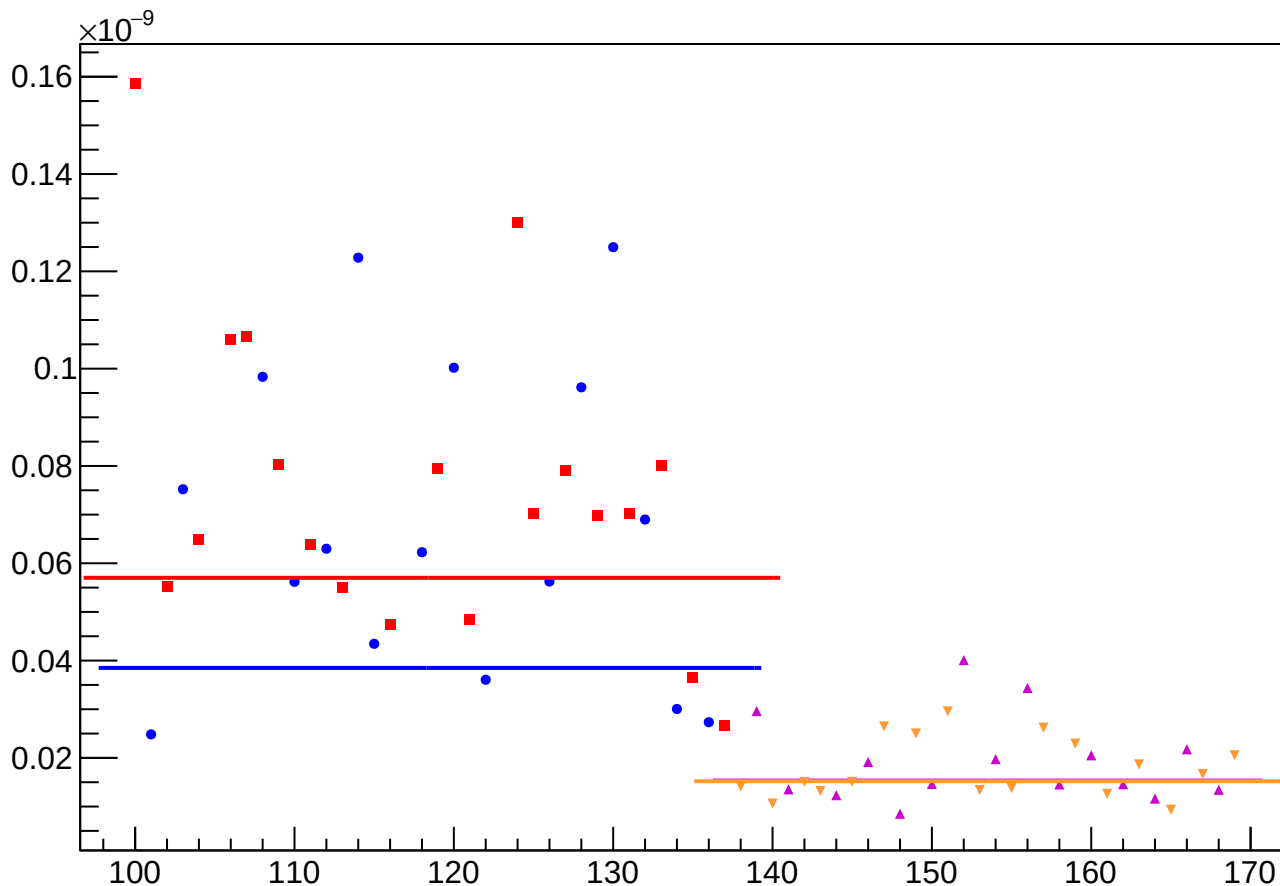
Right: -0.000+/-0.000 χ^2/NDF : 40.4/34

In: -0.000+/-0.000 χ^2/NDF : 35.1/30

Out: -0.000+/-0.000 χ^2/NDF : 41.4/35

All: -0.000+/-0.000 χ^2/NDF : 77.2/66

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1382311.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 918407.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 660994.1/18

Left In: 0.000+/-0.000 χ^2/NDF : 1145306.6/14

Left: 0.000+/-0.000 χ^2/NDF : 2064034.5/31

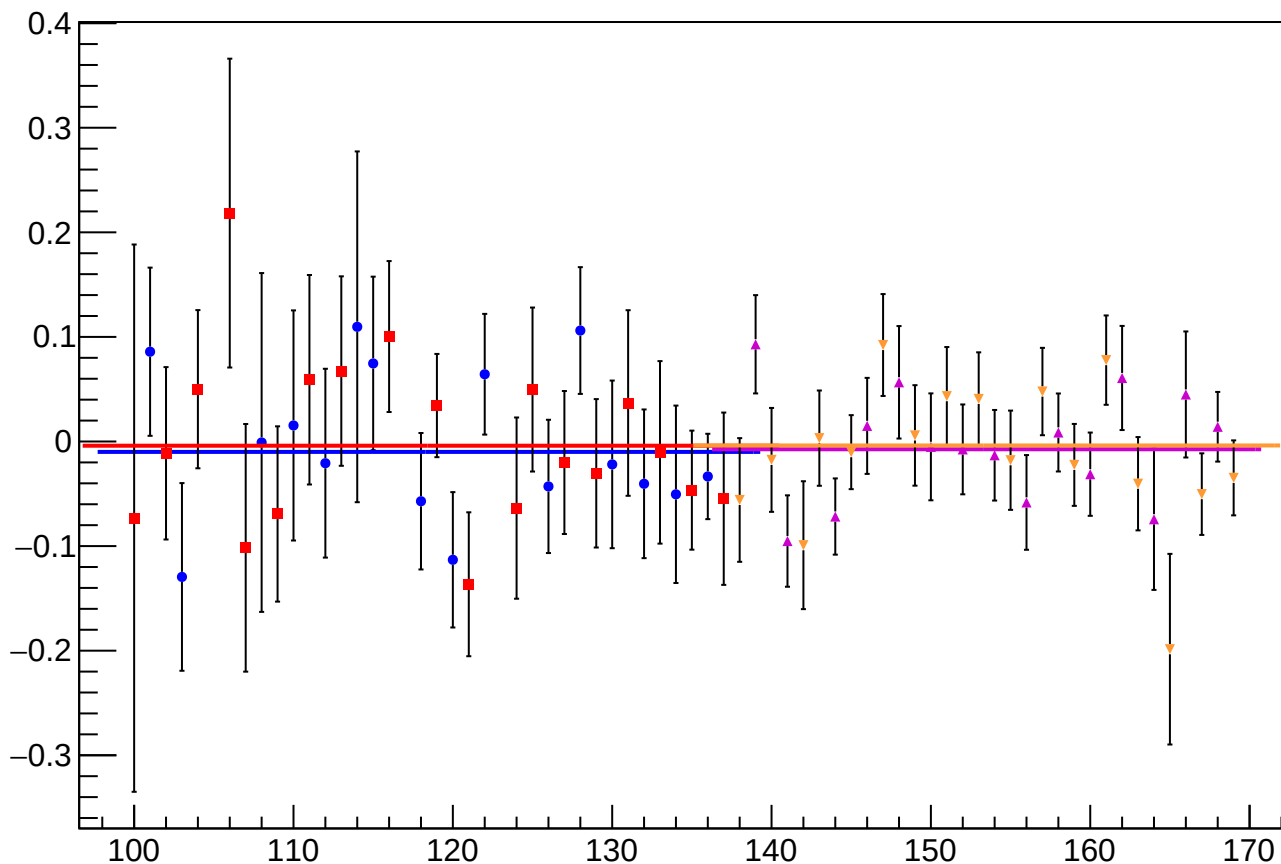
Right: 0.000+/-0.000 χ^2/NDF : 2430892.0/34

In: 0.000+/-0.000 χ^2/NDF : 4078539.8/30

Out: 0.000+/-0.000 χ^2/NDF : 4506894.2/35

All: 0.000+/-0.000 χ^2/NDF : 8589254.4/66

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 14.2/15$

Left Out: -0.004 ± 0.011 $\chi^2/\text{NDF}: 22.2/16$

Right Out: -0.004 ± 0.018 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.007 ± 0.011 $\chi^2/\text{NDF}: 19.2/14$

Left: -0.006 ± 0.008 $\chi^2/\text{NDF}: 41.4/31$

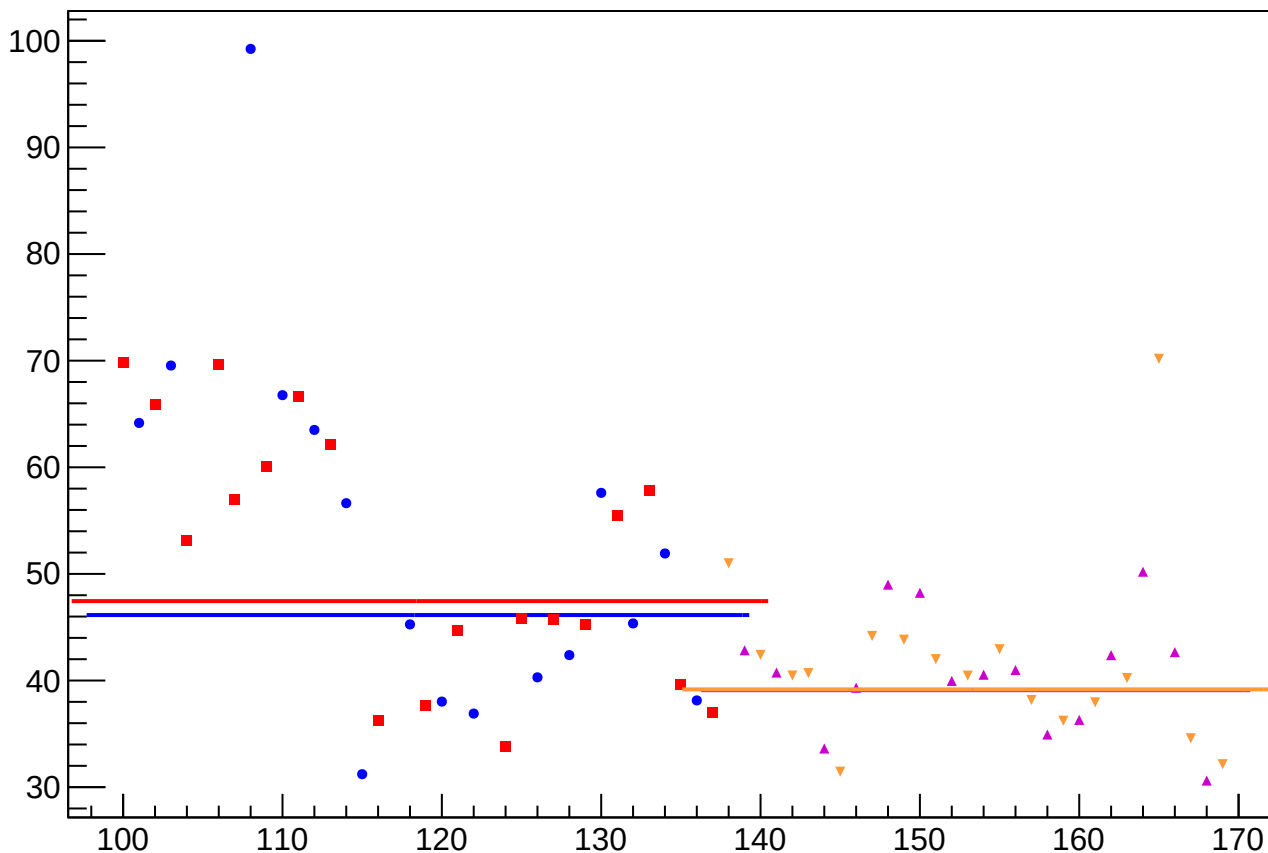
Right: -0.007 ± 0.013 $\chi^2/\text{NDF}: 28.1/34$

In: -0.008 ± 0.010 $\chi^2/\text{NDF}: 33.5/30$

Out: -0.004 ± 0.009 $\chi^2/\text{NDF}: 36.0/35$

All: -0.006 ± 0.007 $\chi^2/\text{NDF}: 69.6/66$

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 46.141 $\pm$ 0.013 χ^2/NDF : 903280.2/15

Left Out: 39.168 $\pm$ 0.008 χ^2/NDF : 599423.6/16

Right Out: 47.450 $\pm$ 0.013 χ^2/NDF : 654693.6/18

Left In: 39.096 $\pm$ 0.008 χ^2/NDF : 432979.6/14

Left: 39.134 $\pm$ 0.006 χ^2/NDF : 1032445.4/31

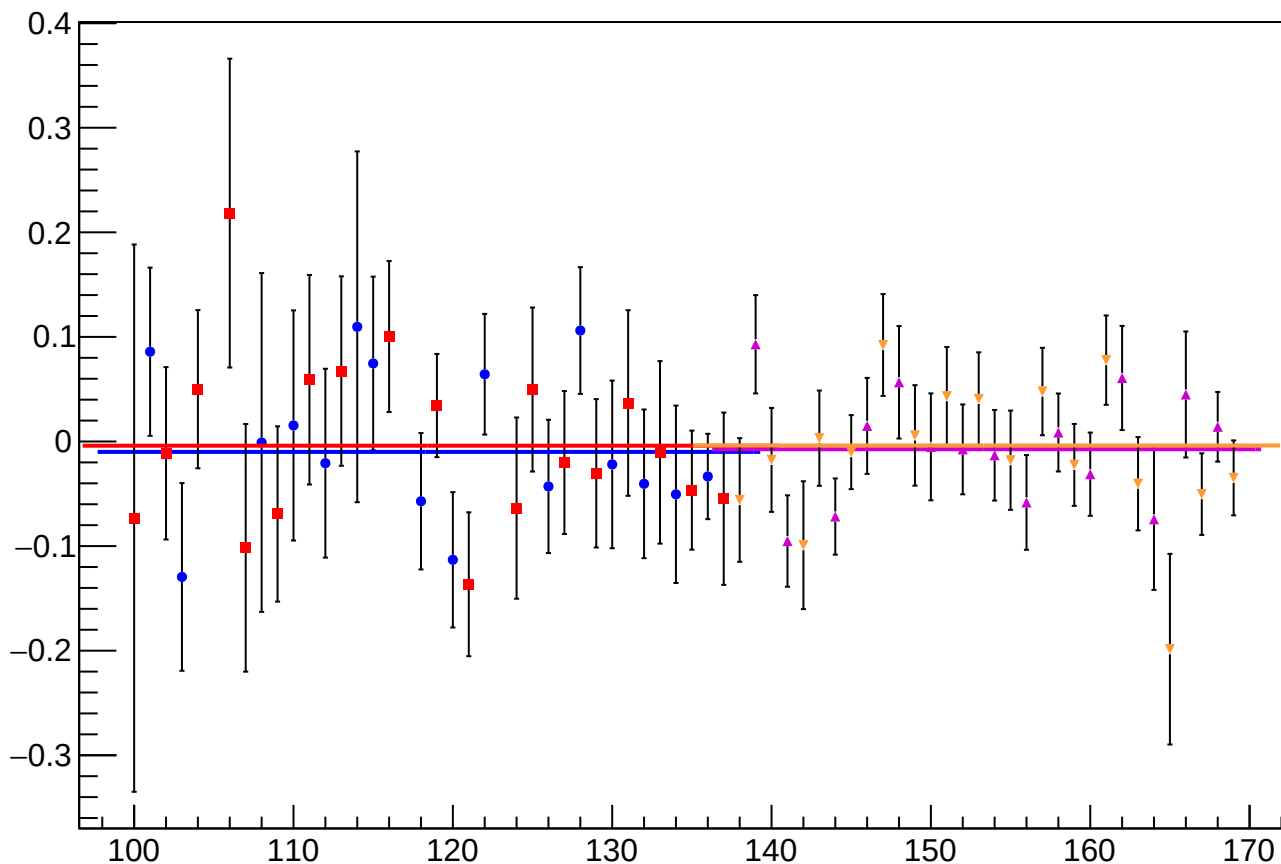
Right: 46.792 $\pm$ 0.009 χ^2/NDF : 1563231.6/34

In: 41.123 $\pm$ 0.007 χ^2/NDF : 1554687.4/30

Out: 41.391 $\pm$ 0.007 χ^2/NDF : 1560667.9/35

All: 41.261 $\pm$ 0.005 χ^2/NDF : 3116147.3/66

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 14.2/15$

Left Out: -0.004 ± 0.011 $\chi^2/\text{NDF}: 22.2/16$

Right Out: -0.004 ± 0.018 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.007 ± 0.011 $\chi^2/\text{NDF}: 19.2/14$

Left: -0.006 ± 0.008 $\chi^2/\text{NDF}: 41.4/31$

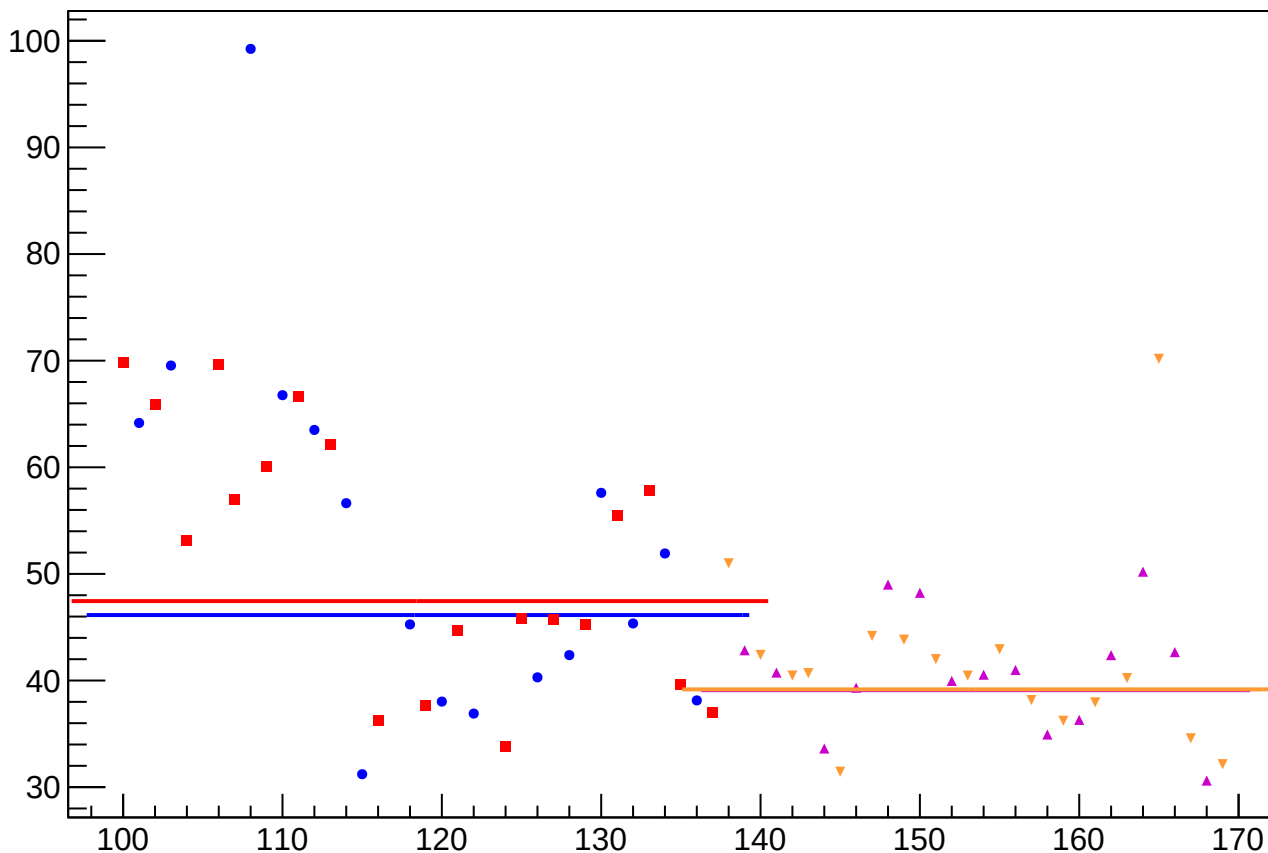
Right: -0.007 ± 0.013 $\chi^2/\text{NDF}: 28.1/34$

In: -0.008 ± 0.010 $\chi^2/\text{NDF}: 33.5/30$

Out: -0.004 ± 0.009 $\chi^2/\text{NDF}: 36.0/35$

All: -0.006 ± 0.007 $\chi^2/\text{NDF}: 69.6/66$

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 46.141 $\pm$ 0.013 χ^2 /NDF: 903280.2/15

Left Out: 39.168 $\pm$ 0.008 χ^2 /NDF: 599423.6/16

Right Out: 47.450 $\pm$ 0.013 χ^2 /NDF: 654693.6/18

Left In: 39.096 $\pm$ 0.008 χ^2 /NDF: 432979.6/14

Left: 39.134 $\pm$ 0.006 χ^2 /NDF: 1032445.4/31

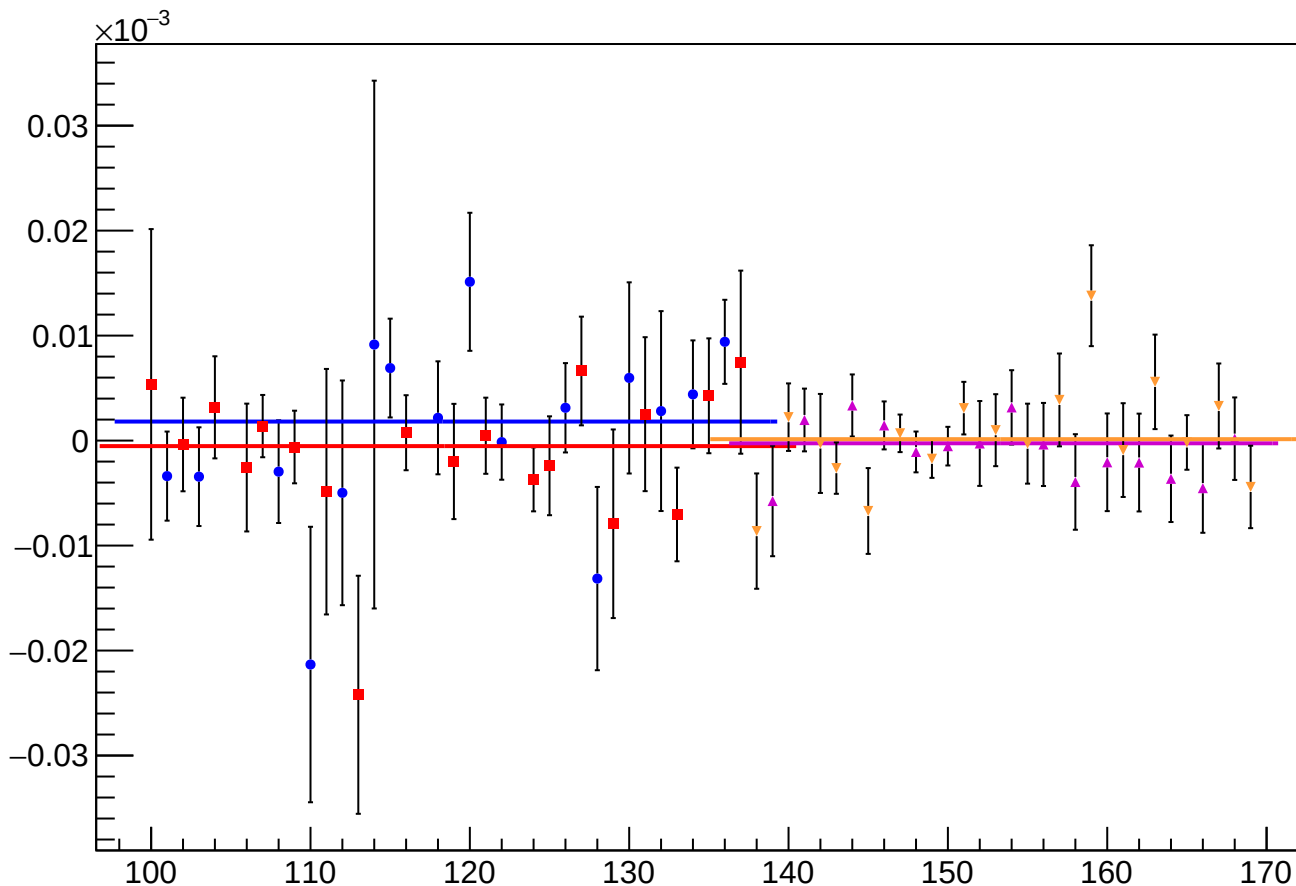
Right: 46.792 $\pm$ 0.009 χ^2 /NDF: 1563231.6/34

In: 41.123 $\pm$ 0.007 χ^2 /NDF: 1554687.4/30

Out: 41.391 $\pm$ 0.007 χ^2 /NDF: 1560667.9/35

All: 41.261 $\pm$ 0.005 χ^2 /NDF: 3116147.3/66

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 20.0/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:22.0/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 13.8/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:7.5/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 29.6/31

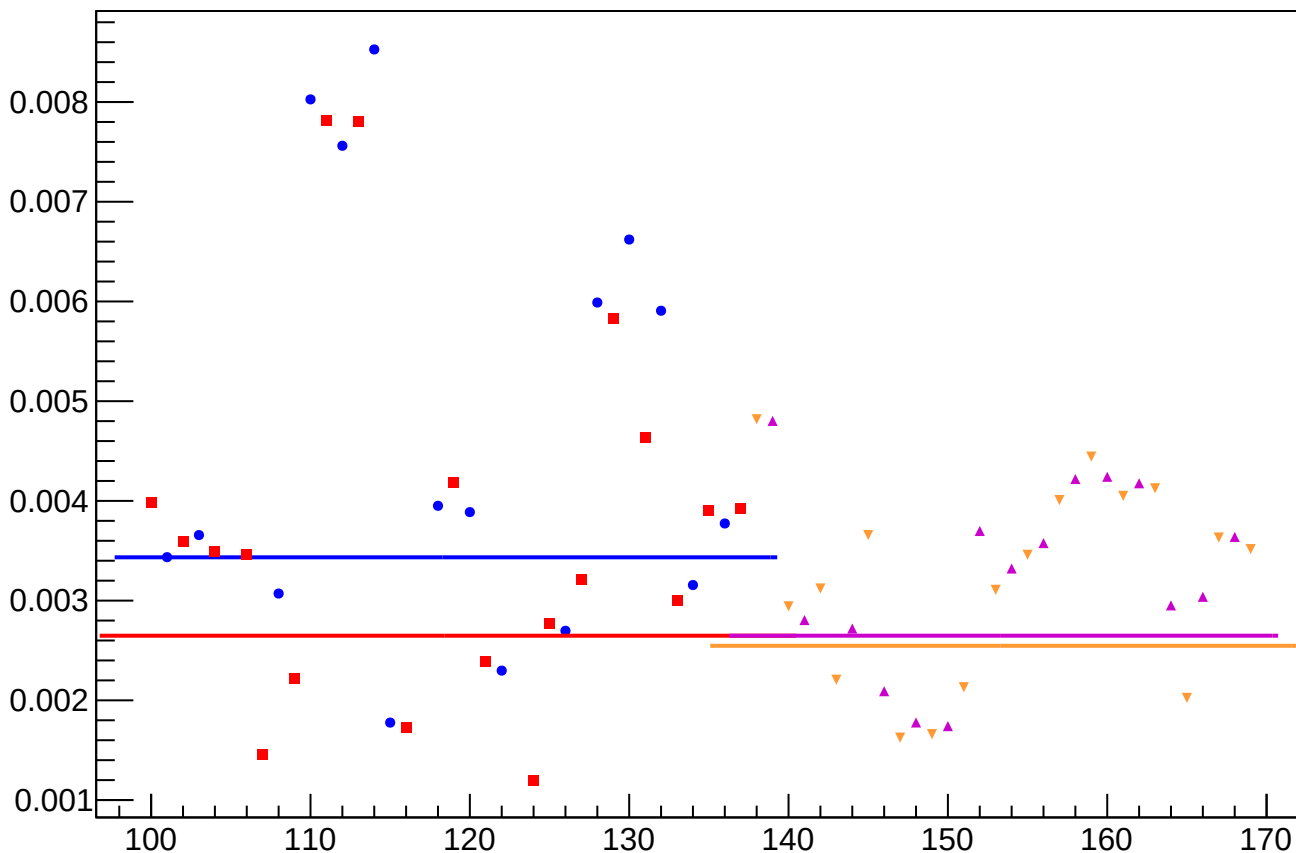
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 35.5/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:29.1/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:36.0/35

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 65.3/66

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000

χ^2/NDF : 1748561.6/15

Left Out: 0.003+/-0.000

χ^2/NDF : 3166789.1/16

Right Out: 0.003+/-0.000

χ^2/NDF : 2696872.6/18

Left In: 0.003+/-0.000

χ^2/NDF : 2507618.9/14

Left: 0.003+/-0.000

χ^2/NDF : 5691398.9/31

Right: 0.003+/-0.000

χ^2/NDF : 4848064.7/34

In: 0.003+/-0.000

χ^2/NDF : 4743933.8/30

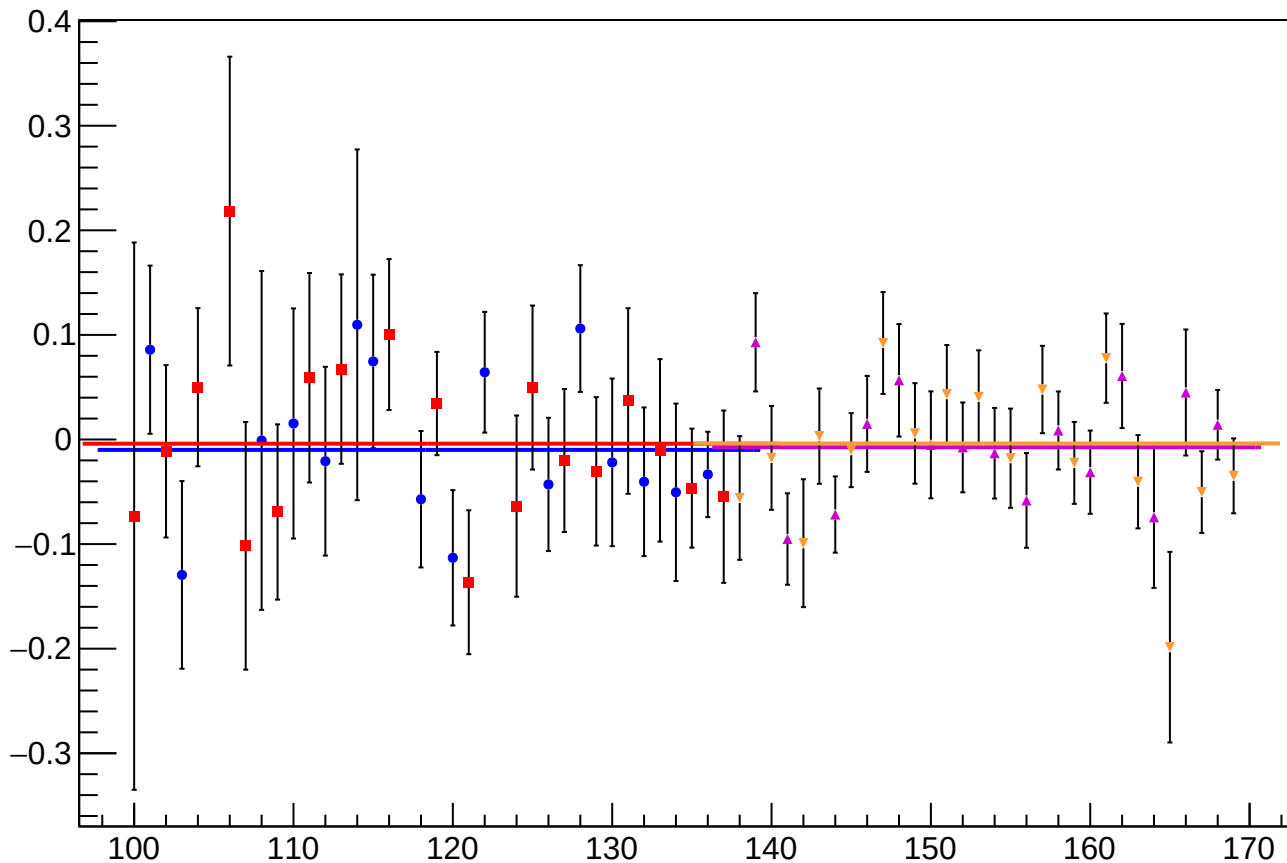
Out: 0.003+/-0.000

χ^2/NDF : 5875349.8/35

All: 0.003+/-0.000

χ^2/NDF : 10789346.6/66

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 14.2/15$

Left Out: -0.004 ± 0.011 $\chi^2/\text{NDF}: 22.2/16$

Right Out: -0.004 ± 0.018 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.007 ± 0.011 $\chi^2/\text{NDF}: 19.2/14$

Left: -0.006 ± 0.008 $\chi^2/\text{NDF}: 41.4/31$

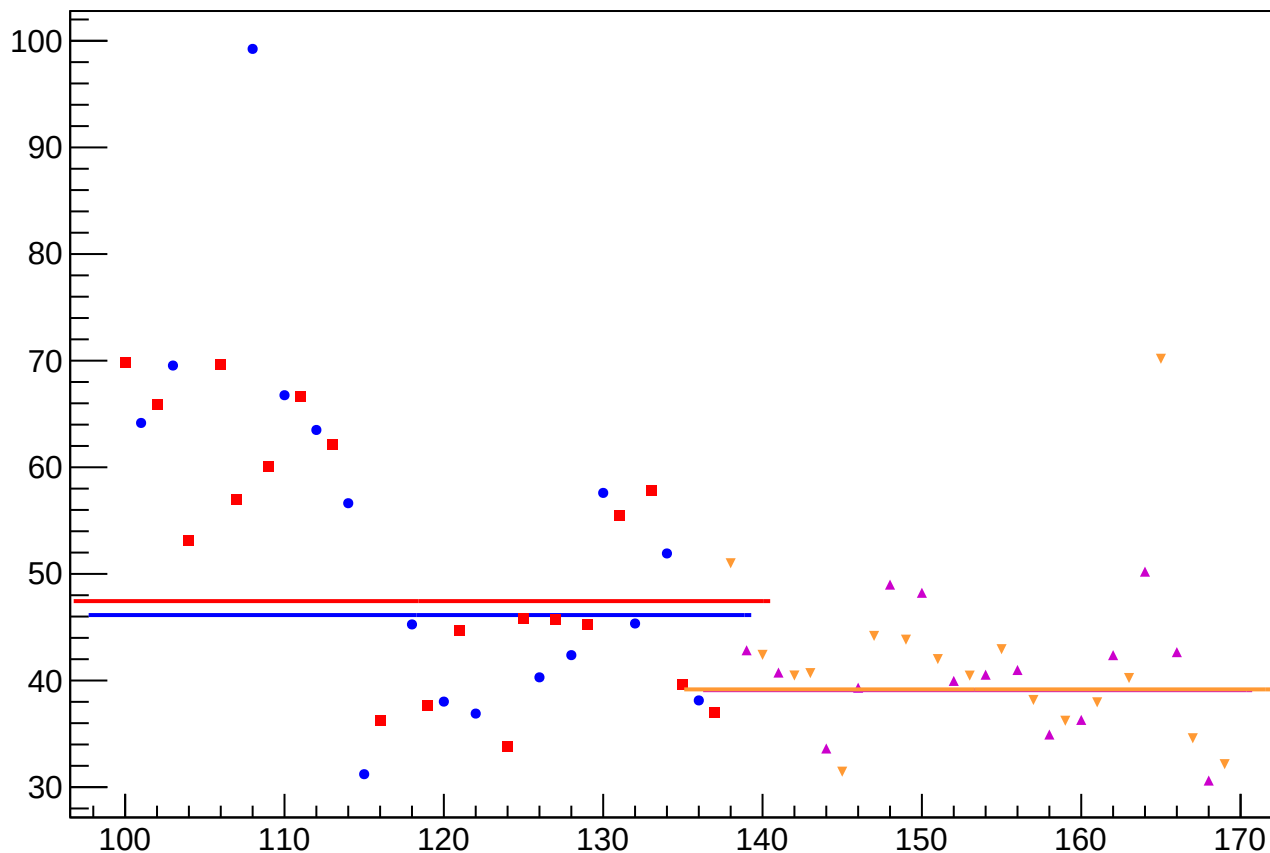
Right: -0.007 ± 0.013 $\chi^2/\text{NDF}: 28.1/34$

In: -0.008 ± 0.010 $\chi^2/\text{NDF}: 33.5/30$

Out: -0.004 ± 0.009 $\chi^2/\text{NDF}: 36.0/35$

All: -0.006 ± 0.007 $\chi^2/\text{NDF}: 69.6/66$

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 46.140 $\pm$ 0.013 χ^2 /NDF: 903251.1/15

Left Out: 39.168 $\pm$ 0.008 χ^2 /NDF: 599460.6/16

Right Out: 47.448 $\pm$ 0.013 χ^2 /NDF: 654687.8/18

Left In: 39.095 $\pm$ 0.008 χ^2 /NDF: 433046.9/14

Left: 39.133 $\pm$ 0.006 χ^2 /NDF: 1032550.0/31

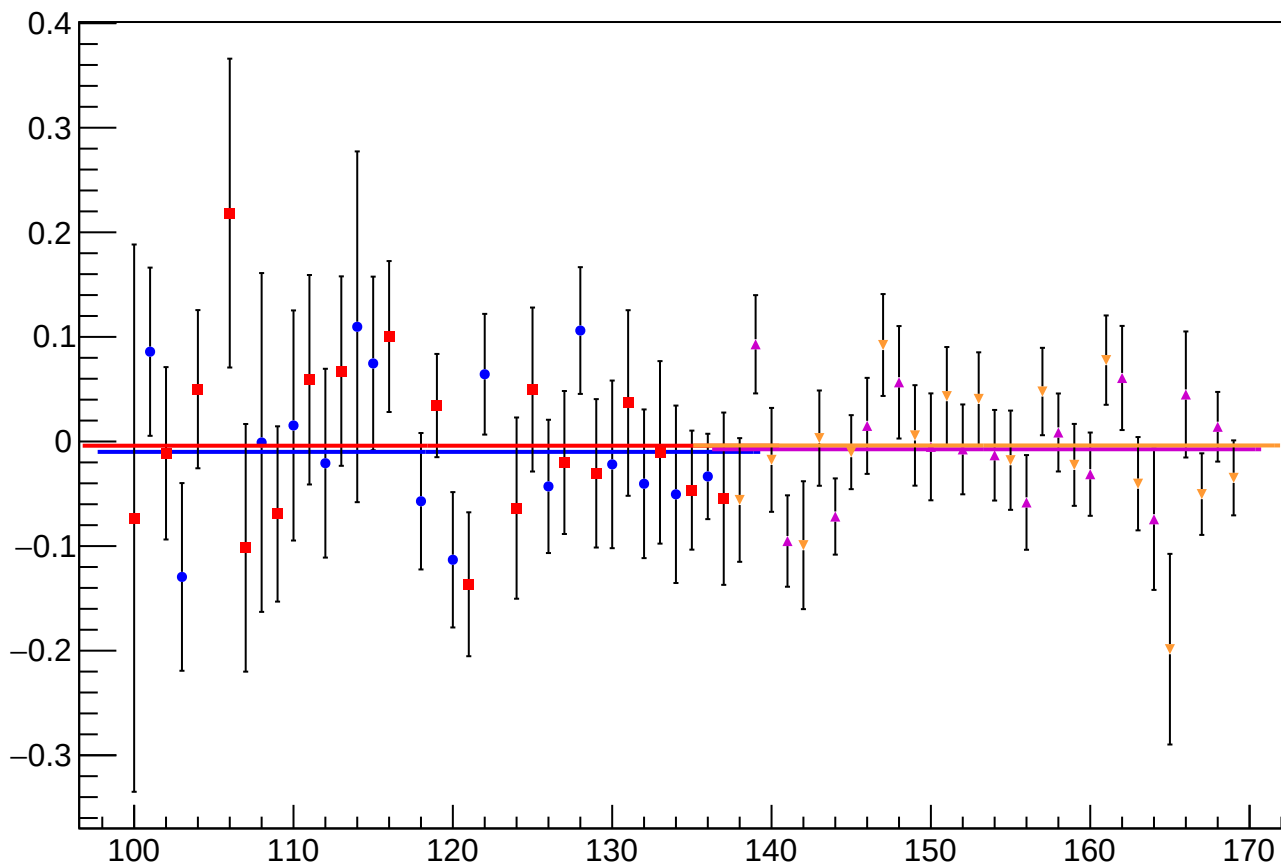
Right: 46.790 $\pm$ 0.009 χ^2 /NDF: 1563199.9/34

In: 41.123 $\pm$ 0.007 χ^2 /NDF: 1554656.9/30

Out: 41.391 $\pm$ 0.007 χ^2 /NDF: 1560616.3/35

All: 41.261 $\pm$ 0.005 χ^2 /NDF: 3116067.5/66

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.010 ± 0.018 $\chi^2/\text{NDF}: 14.2/15$

Left Out: -0.004 ± 0.011 $\chi^2/\text{NDF}: 22.2/16$

Right Out: -0.004 ± 0.018 $\chi^2/\text{NDF}: 13.9/18$

Left In: -0.007 ± 0.011 $\chi^2/\text{NDF}: 19.2/14$

Left: -0.006 ± 0.008 $\chi^2/\text{NDF}: 41.4/31$

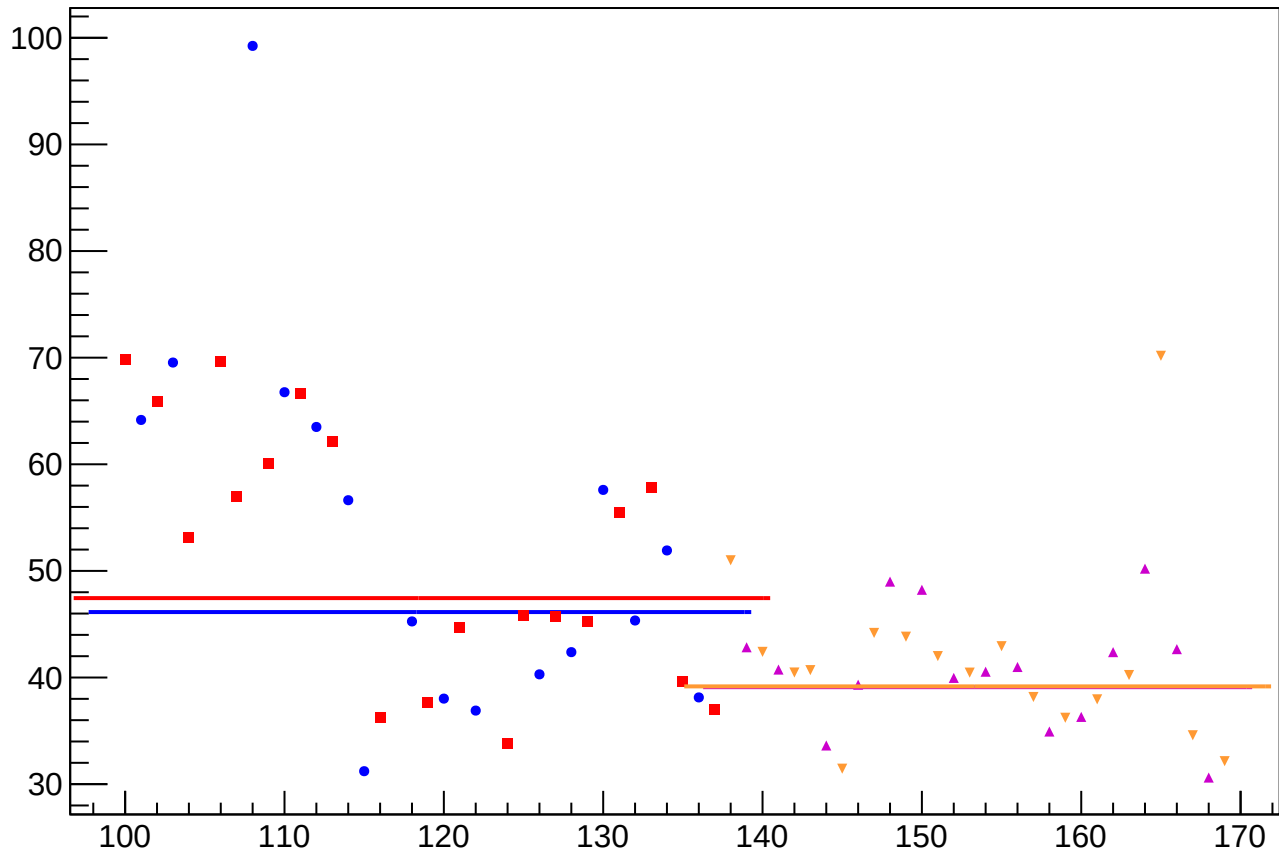
Right: -0.007 ± 0.013 $\chi^2/\text{NDF}: 28.1/34$

In: -0.008 ± 0.010 $\chi^2/\text{NDF}: 33.5/30$

Out: -0.004 ± 0.009 $\chi^2/\text{NDF}: 36.0/35$

All: -0.006 ± 0.007 $\chi^2/\text{NDF}: 69.6/66$

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 46.140 $\pm$ 0.013 χ^2 /NDF: 903251.1/15

Left Out: 39.168 $\pm$ 0.008 χ^2 /NDF: 599460.6/16

Right Out: 47.448 $\pm$ 0.013 χ^2 /NDF: 654687.8/18

Left In: 39.095 $\pm$ 0.008 χ^2 /NDF: 433046.9/14

Left: 39.133 $\pm$ 0.006 χ^2 /NDF: 1032550.0/31

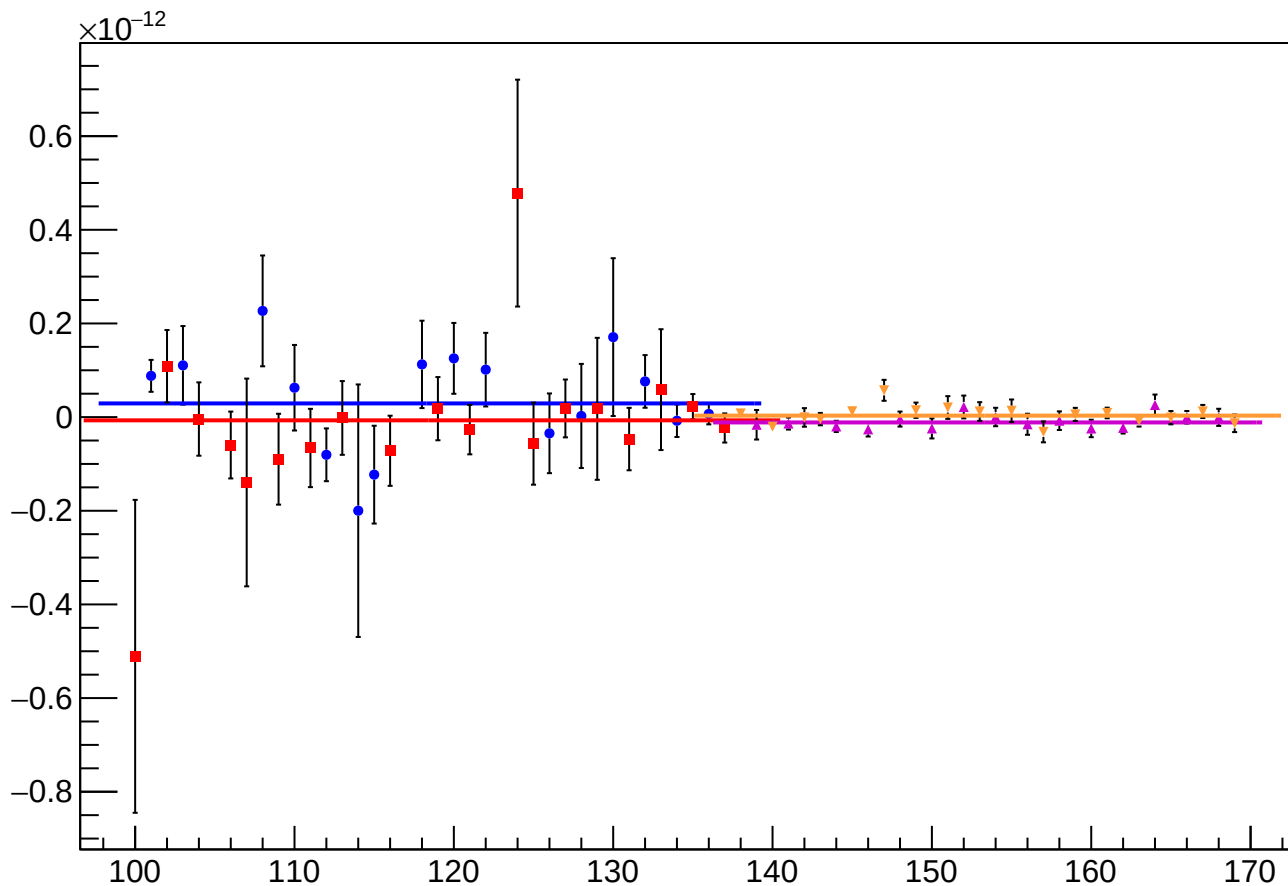
Right: 46.790 $\pm$ 0.009 χ^2 /NDF: 1563199.9/34

In: 41.123 $\pm$ 0.007 χ^2 /NDF: 1554656.9/30

Out: 41.391 $\pm$ 0.007 χ^2 /NDF: 1560616.3/35

All: 41.261 $\pm$ 0.005 χ^2 /NDF: 3116067.5/66

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 18.4/16

Right Out: -0.000+/-0.000 χ^2/NDF : 14.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 9.5/14

Left: -0.000+/-0.000 χ^2/NDF : 34.8/31

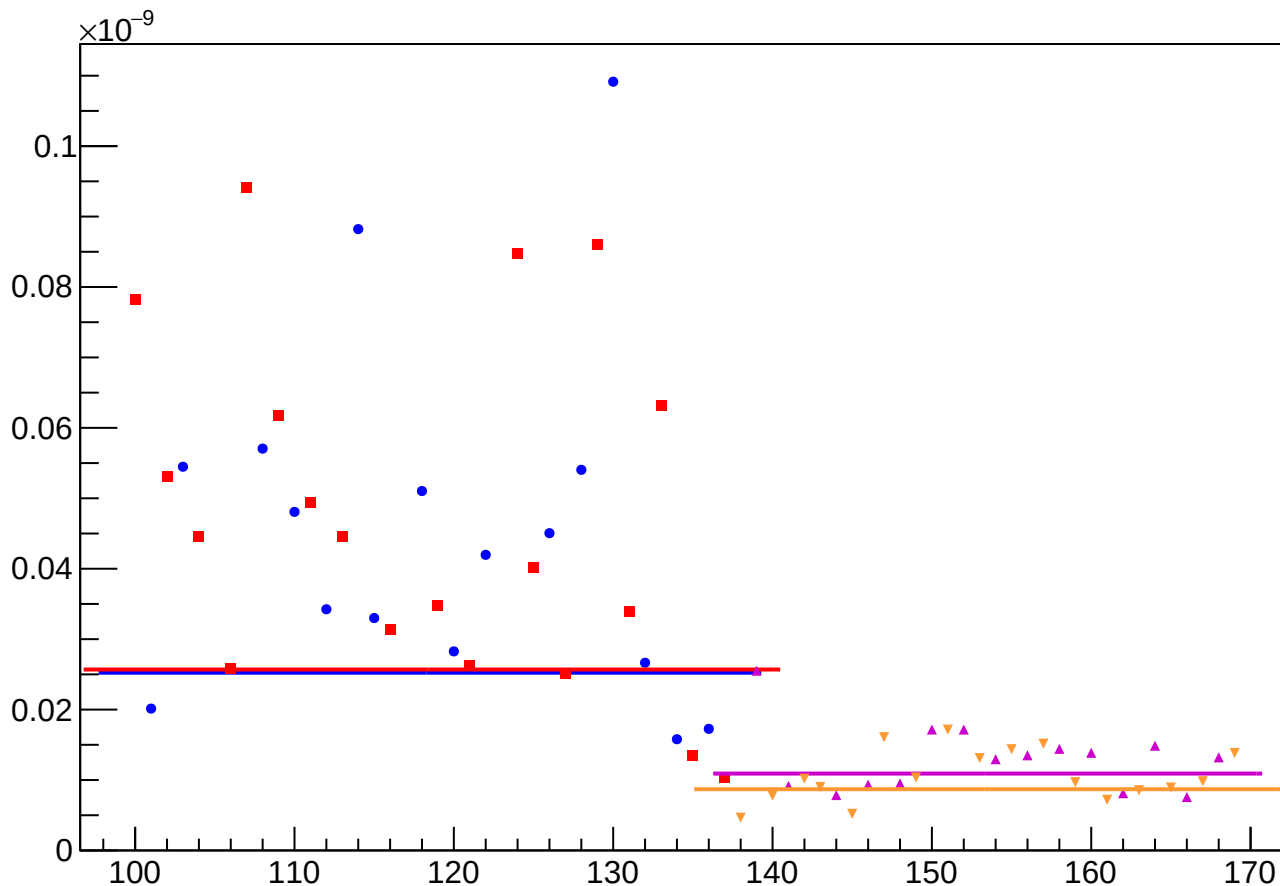
Right: 0.000+/-0.000 χ^2/NDF : 38.5/34

In: -0.000+/-0.000 χ^2/NDF : 38.6/30

Out: 0.000+/-0.000 χ^2/NDF : 33.2/35

All: -0.000+/-0.000 χ^2/NDF : 75.4/66

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2117960.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1704281.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2790840.2/18

Left In: 0.000+/-0.000 χ^2/NDF :1419828.8/14

Left: 0.000+/-0.000 χ^2/NDF : 3446016.7/31

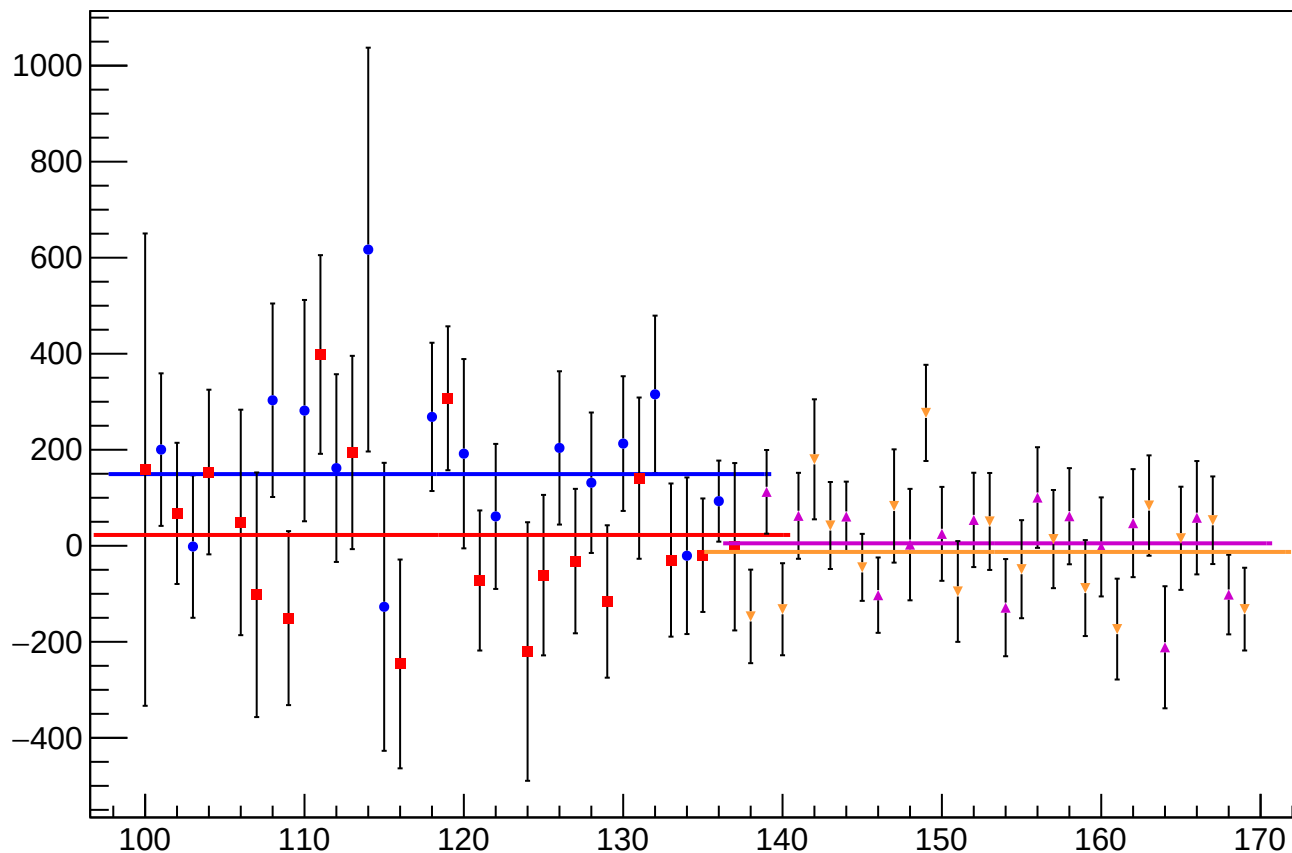
Right: 0.000+/-0.000 χ^2/NDF : 4909837.4/34

In: 0.000+/-0.000 χ^2/NDF :5574955.3/30

Out: 0.000+/-0.000 χ^2/NDF :7149539.4/35

All: 0.000+/-0.000 χ^2/NDF : 13214092.7/66

reg_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 149.303 $\pm$ 39.687 χ^2 /NDF: 8.0/15

Left Out: -12.800 $\pm$ 23.694 χ^2 /NDF:22.9/16

Right Out: 22.549 $\pm$ 40.100 χ^2 /NDF: 14.2/18

Left In: 5.146 $\pm$ 24.759 χ^2 /NDF:12.5/14

Left: -4.221 $\pm$ 17.118 χ^2 /NDF: 35.7/31

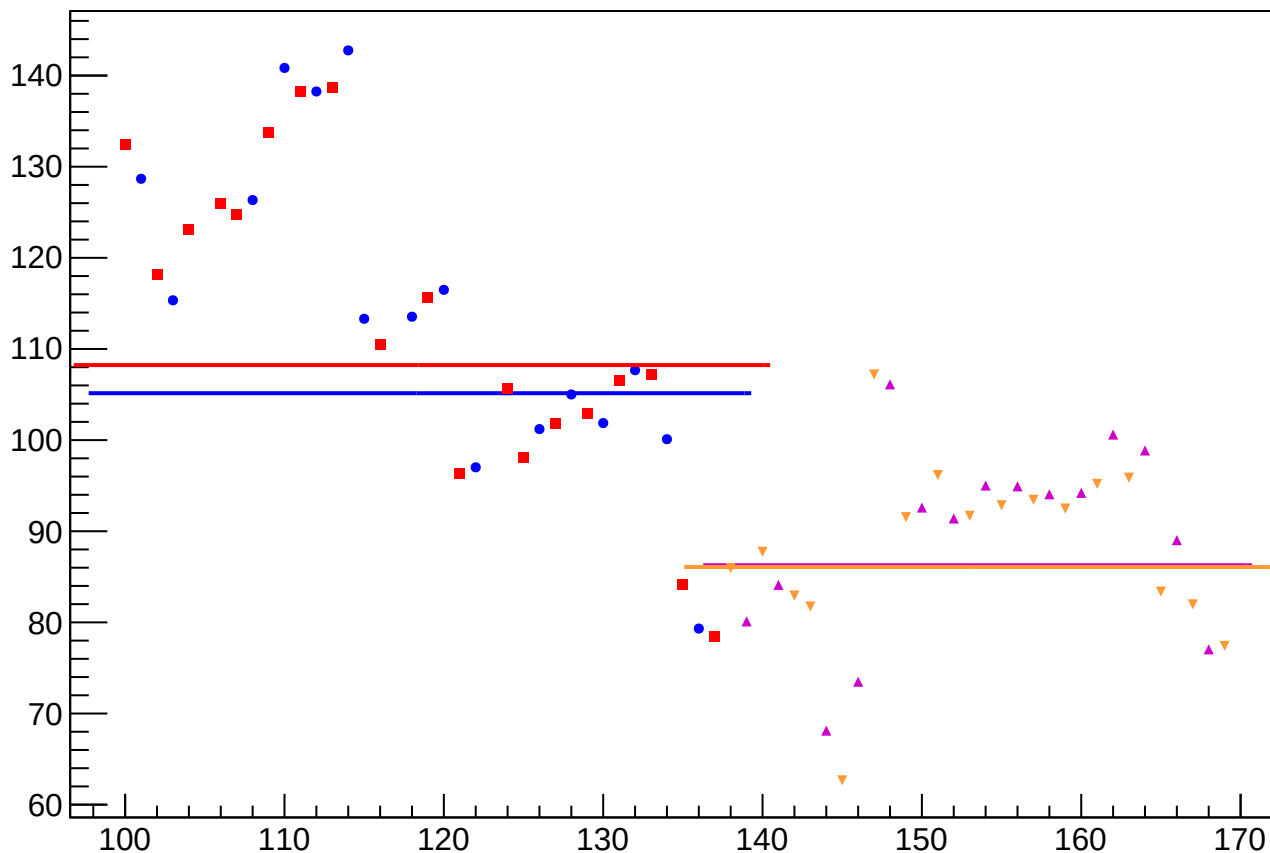
Right: 86.583 $\pm$ 28.208 χ^2 /NDF: 27.3/34

In: 45.532 $\pm$ 21.006 χ^2 /NDF:30.0/30

Out: -3.653 $\pm$ 20.399 χ^2 /NDF:37.7/35

All: 20.219 $\pm$ 14.634 χ^2 /NDF: 70.5/66

reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 105.146 $\pm$ 0.028 χ^2 /NDF: 408406.3/15

Left Out: 86.071 $\pm$ 0.017 χ^2 /NDF: 412072.5/16

Right Out: 108.233 $\pm$ 0.028 χ^2 /NDF: 349936.1/18

Left In: 86.272 $\pm$ 0.018 χ^2 /NDF: 391970.2/14

Left: 86.167 $\pm$ 0.012 χ^2 /NDF: 804111.7/31

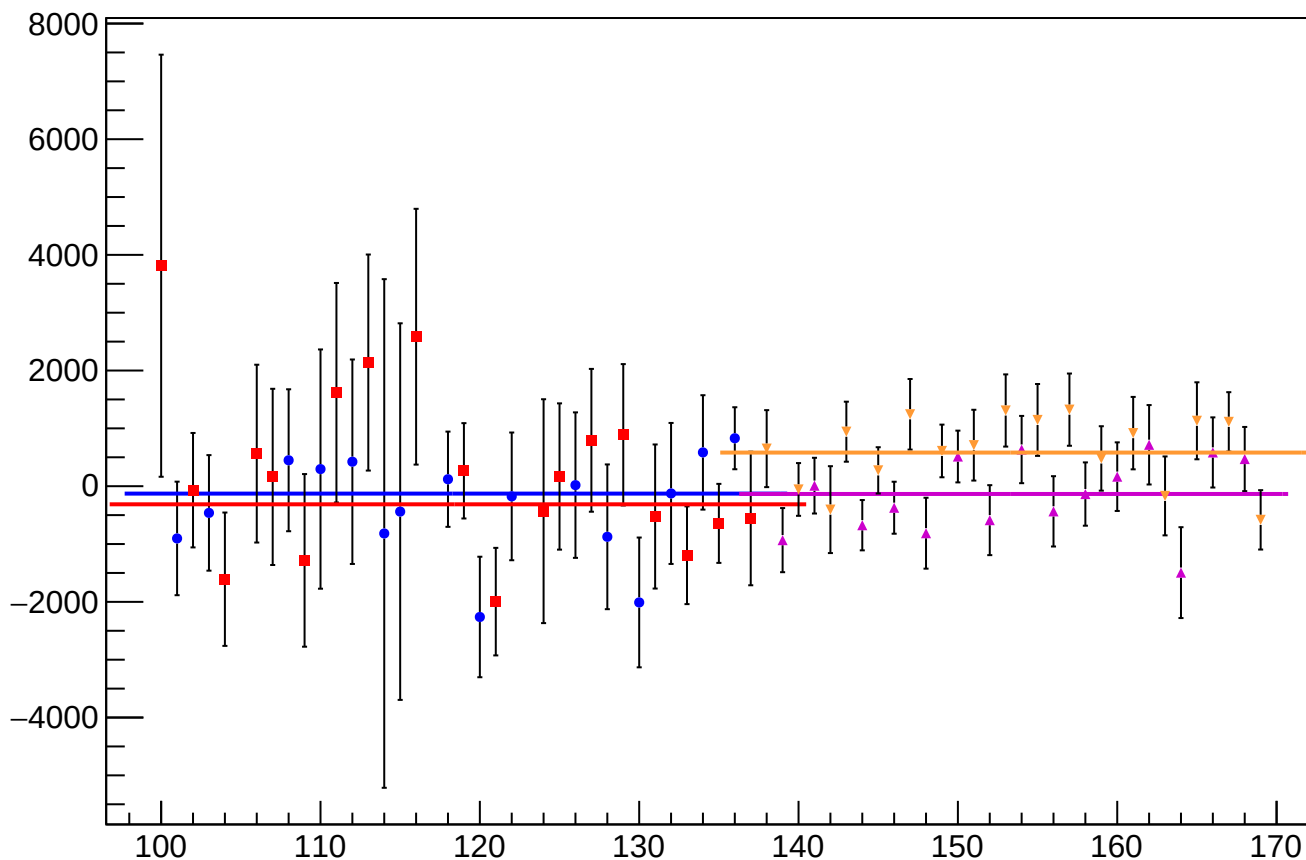
Right: 106.674 $\pm$ 0.020 χ^2 /NDF: 764328.3/34

In: 91.560 $\pm$ 0.015 χ^2 /NDF: 1125992.0/30

Out: 91.806 $\pm$ 0.014 χ^2 /NDF: 1214804.0/35

All: 91.686 $\pm$ 0.010 χ^2 /NDF: 2340937.1/66

asym_sam_26_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -128.056+/-268.611 χ^2/NDF : 12.3/15

Left Out: 581.491+/-135.503 χ^2/NDF : 18.0/16

Right Out: -313.031+/-270.131 χ^2/NDF : 15.0/18

Left In: -134.339+/-141.791 χ^2/NDF : 17.2/14

Left: 239.799+/-97.963 χ^2/NDF : 48.5/31

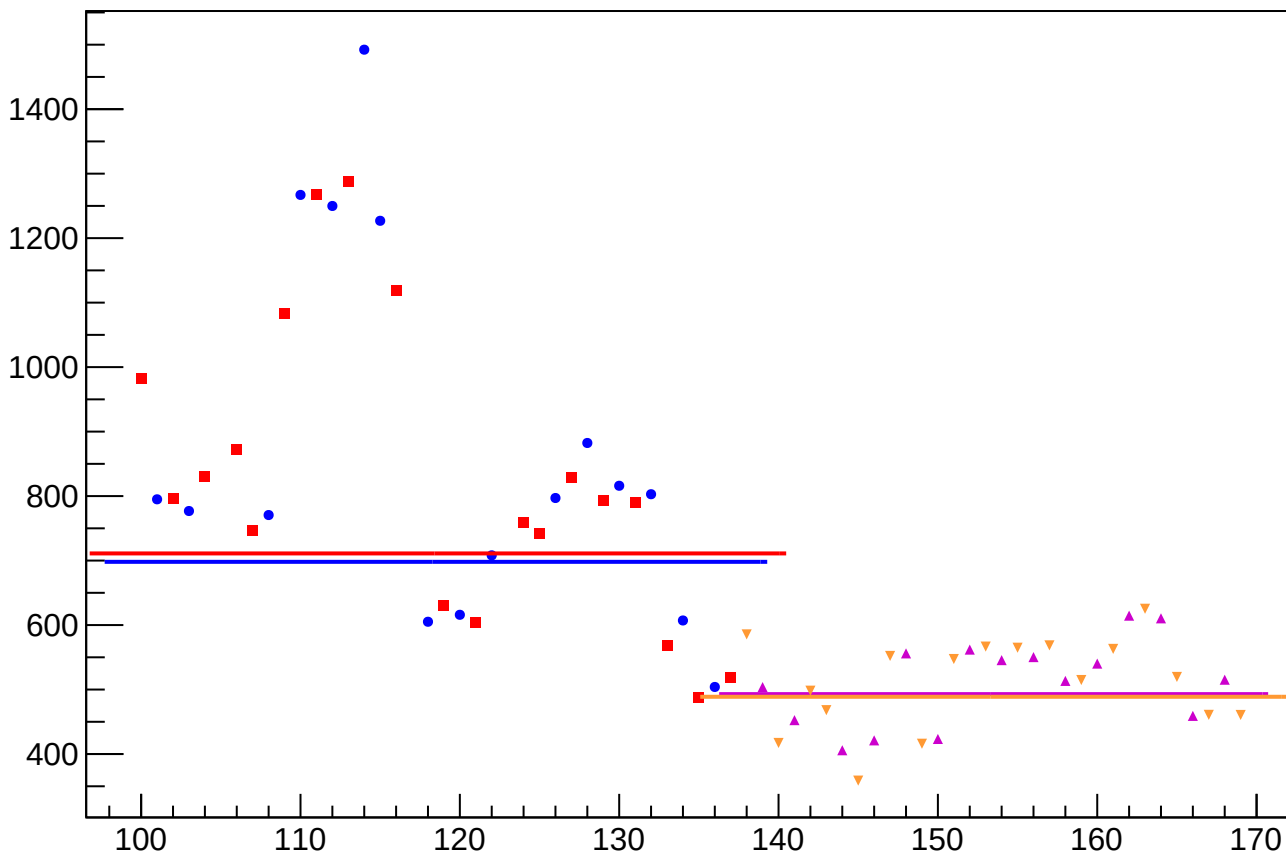
Right: -220.022+/-190.472 χ^2/NDF : 27.5/34

In: -132.970+/-125.393 χ^2/NDF : 29.5/30

Out: 401.658+/-121.119 χ^2/NDF : 41.8/35

All: 143.610+/-87.116 χ^2/NDF : 80.7/66

asym_sam_26_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 698.055+/-0.190 χ^2/NDF : 912851.5/15

Left Out: 488.793+/-0.096 χ^2/NDF : 619605.2/16

Right Out: 711.088+/-0.191 χ^2/NDF : 1035118.4/18

Left In: 492.907+/-0.100 χ^2/NDF : 408223.3/14

Left: 490.756+/-0.069 χ^2/NDF : 1028708.5/31

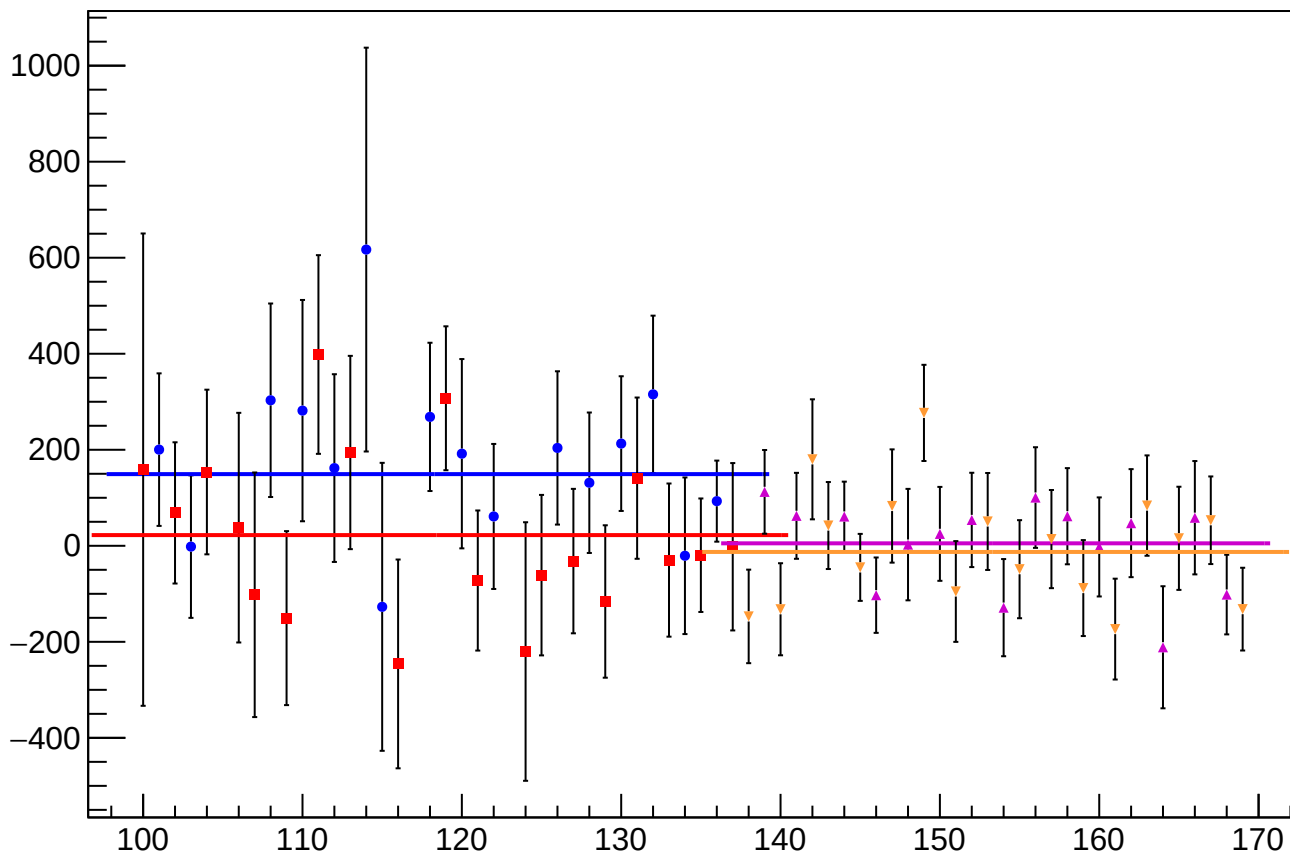
Right: 704.534+/-0.135 χ^2/NDF : 1950310.9/34

In: 537.613+/-0.089 χ^2/NDF : 2233436.2/30

Out: 533.482+/-0.086 χ^2/NDF : 2736823.8/35

All: 535.476+/-0.062 χ^2/NDF : 4971382.6/66

cor_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 149.294 $\pm$ 39.687 χ^2 /NDF: 8.0/15

Left Out: -12.802 $\pm$ 23.694 χ^2 /NDF:22.9/16

Right Out: 22.297 $\pm$ 40.123 χ^2 /NDF: 14.2/18

Left In: 5.147 $\pm$ 24.759 χ^2 /NDF:12.5/14

Left: -4.222 $\pm$ 17.118 χ^2 /NDF: 35.7/31

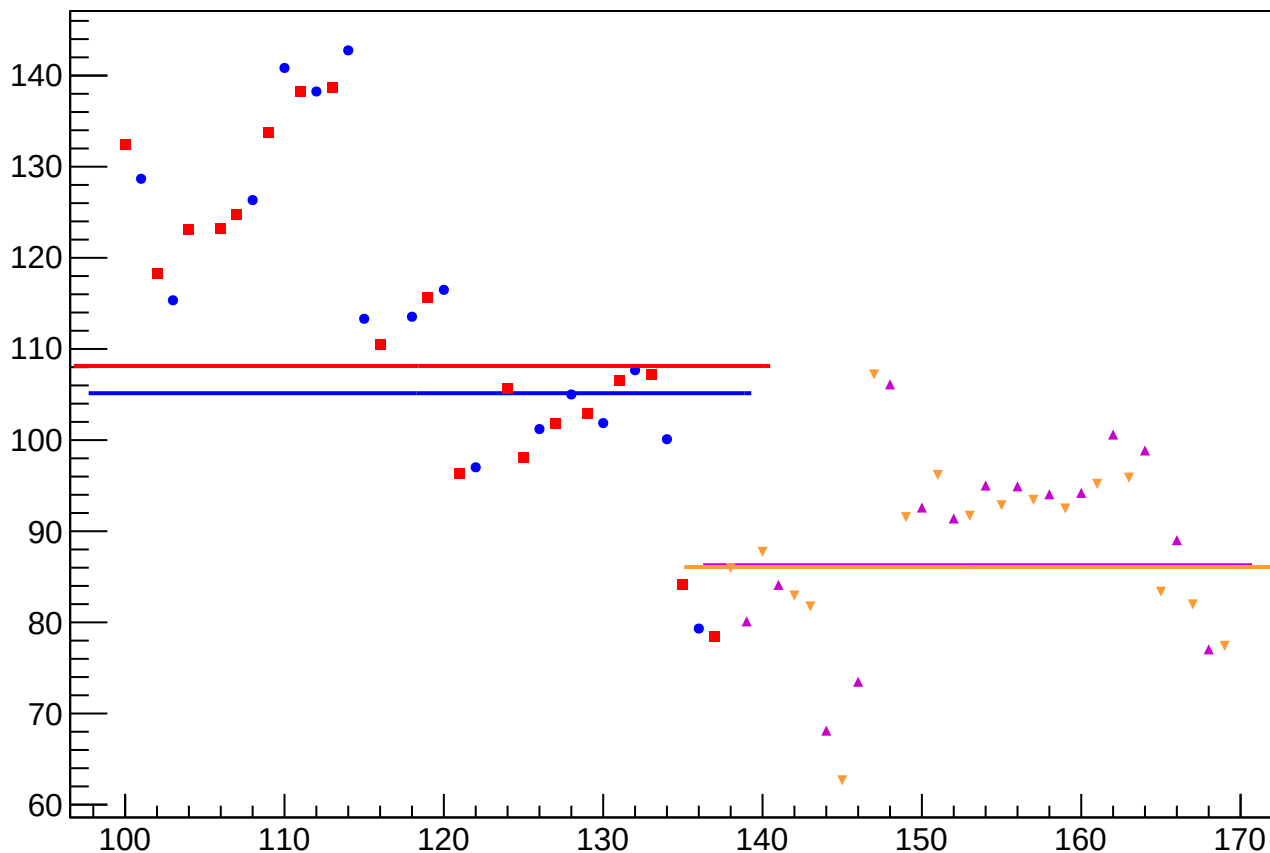
Right: 86.488 $\pm$ 28.216 χ^2 /NDF: 27.3/34

In: 45.530 $\pm$ 21.006 χ^2 /NDF:30.0/30

Out: -3.727 $\pm$ 20.402 χ^2 /NDF:37.7/35

All: 20.183 $\pm$ 14.635 χ^2 /NDF: 70.5/66

cor_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 105.146 $\pm$ 0.028 χ^2 /NDF: 408406.5/15

Left Out: 86.071 $\pm$ 0.017 χ^2 /NDF:412072.5/16

Right Out: 108.136 $\pm$ 0.028 χ^2 /NDF: 346321.9/18

Left In: 86.272 $\pm$ 0.018 χ^2 /NDF:391970.2/14

Left: 86.167 $\pm$ 0.012 χ^2 /NDF: 804111.7/31

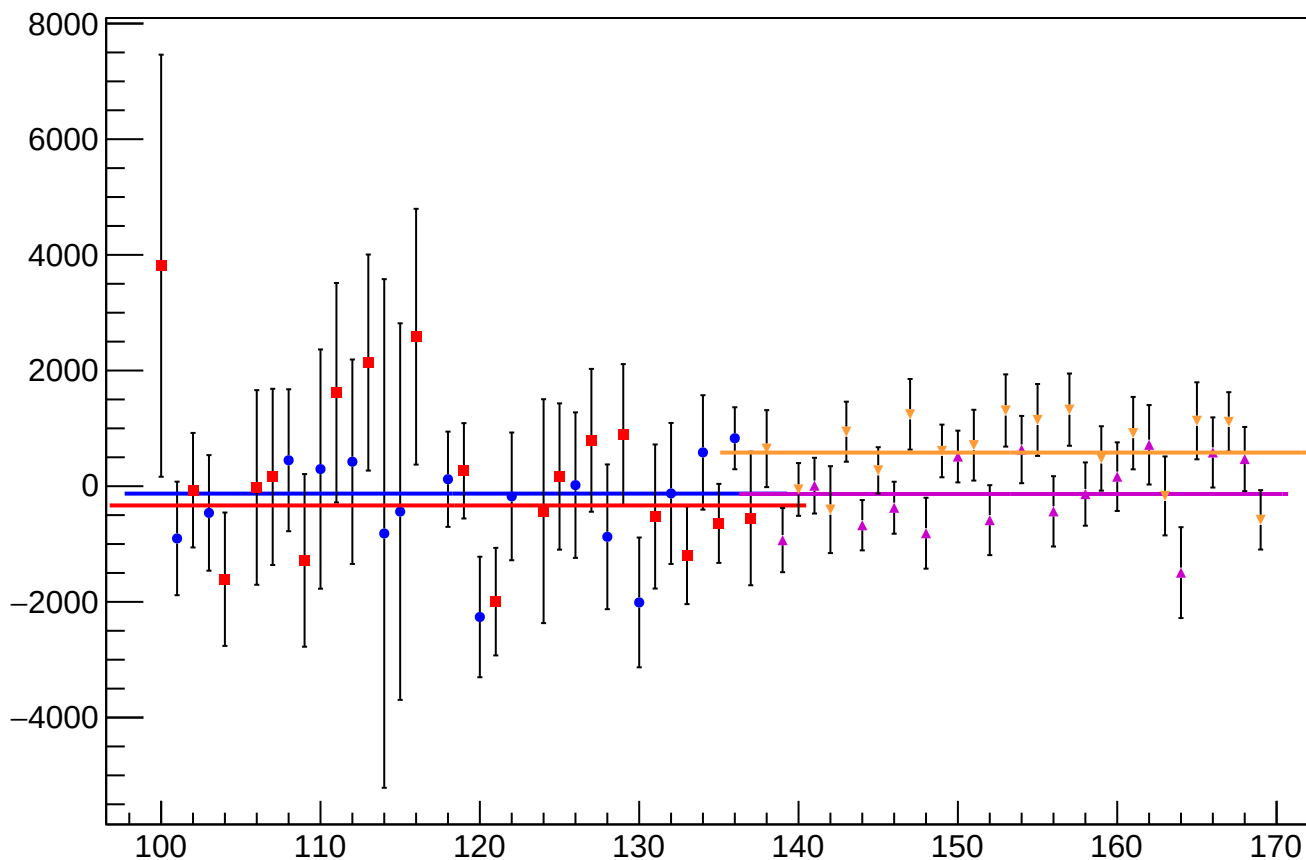
Right: 106.625 $\pm$ 0.020 χ^2 /NDF: 760343.1/34

In: 91.560 $\pm$ 0.015 χ^2 /NDF:1125992.4/30

Out: 91.776 $\pm$ 0.014 χ^2 /NDF:1206893.3/35

All: 91.671 $\pm$ 0.010 χ^2 /NDF: 2332994.9/66

asym_sam_26_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -128.047 ± 268.611 $\chi^2/\text{NDF}: 12.3/15$

Left Out: 581.492 ± 135.504 $\chi^2/\text{NDF}: 18.0/16$

Right Out: -332.665 ± 270.835 $\chi^2/\text{NDF}: 14.7/18$

Left In: -134.340 ± 141.791 $\chi^2/\text{NDF}: 17.2/14$

Left: 239.799 ± 97.963 $\chi^2/\text{NDF}: 48.5/31$

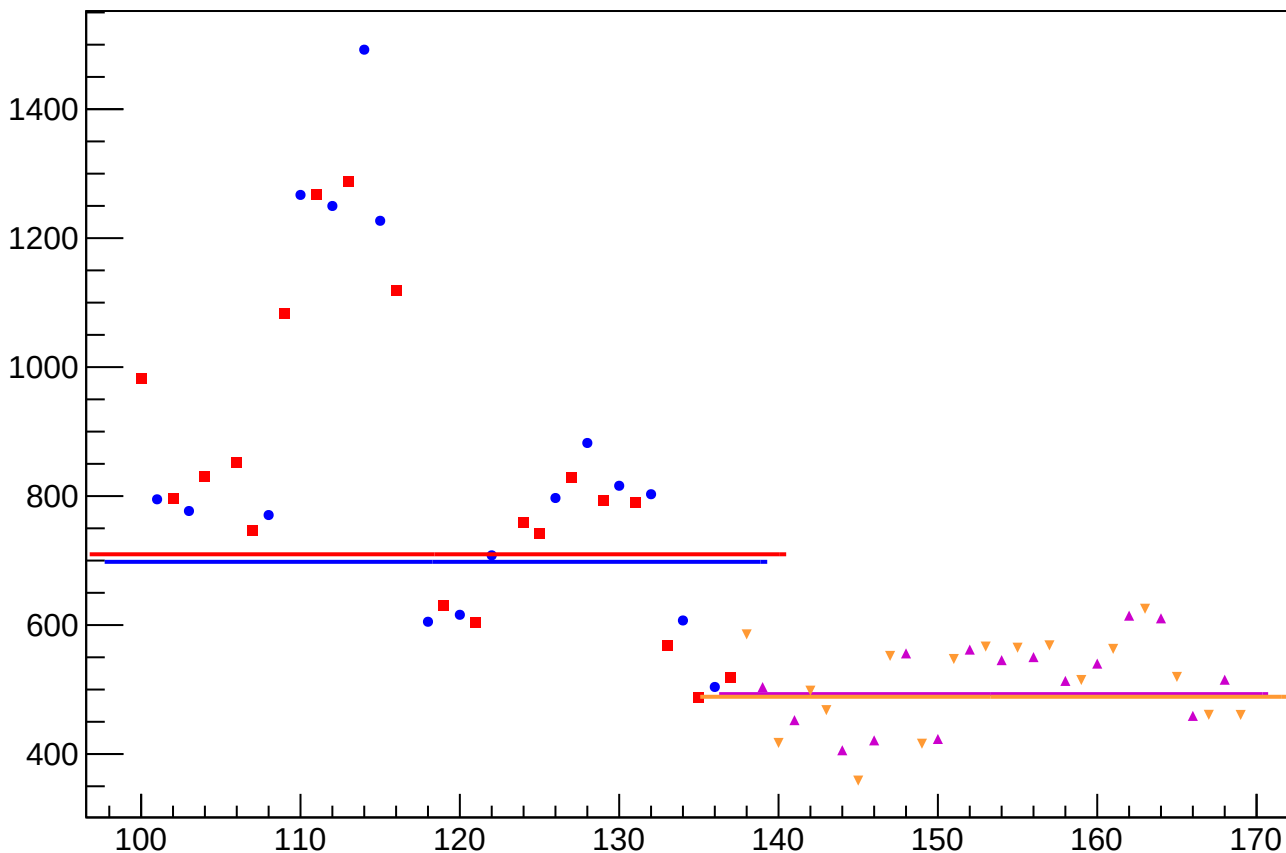
Right: -229.512 ± 190.718 $\chi^2/\text{NDF}: 27.3/34$

In: -132.969 ± 125.393 $\chi^2/\text{NDF}: 29.5/30$

Out: 398.475 ± 121.183 $\chi^2/\text{NDF}: 41.8/35$

All: 141.826 ± 87.140 $\chi^2/\text{NDF}: 80.6/66$

asym_sam_26_48_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 698.055+/-0.190 χ^2/NDF : 912861.2/15

Left Out: 488.793+/-0.096 χ^2/NDF : 619604.9/16

Right Out: 709.748+/-0.192 χ^2/NDF : 1027114.2/18

Left In: 492.907+/-0.100 χ^2/NDF : 408223.6/14

Left: 490.757+/-0.069 χ^2/NDF : 1028708.6/31

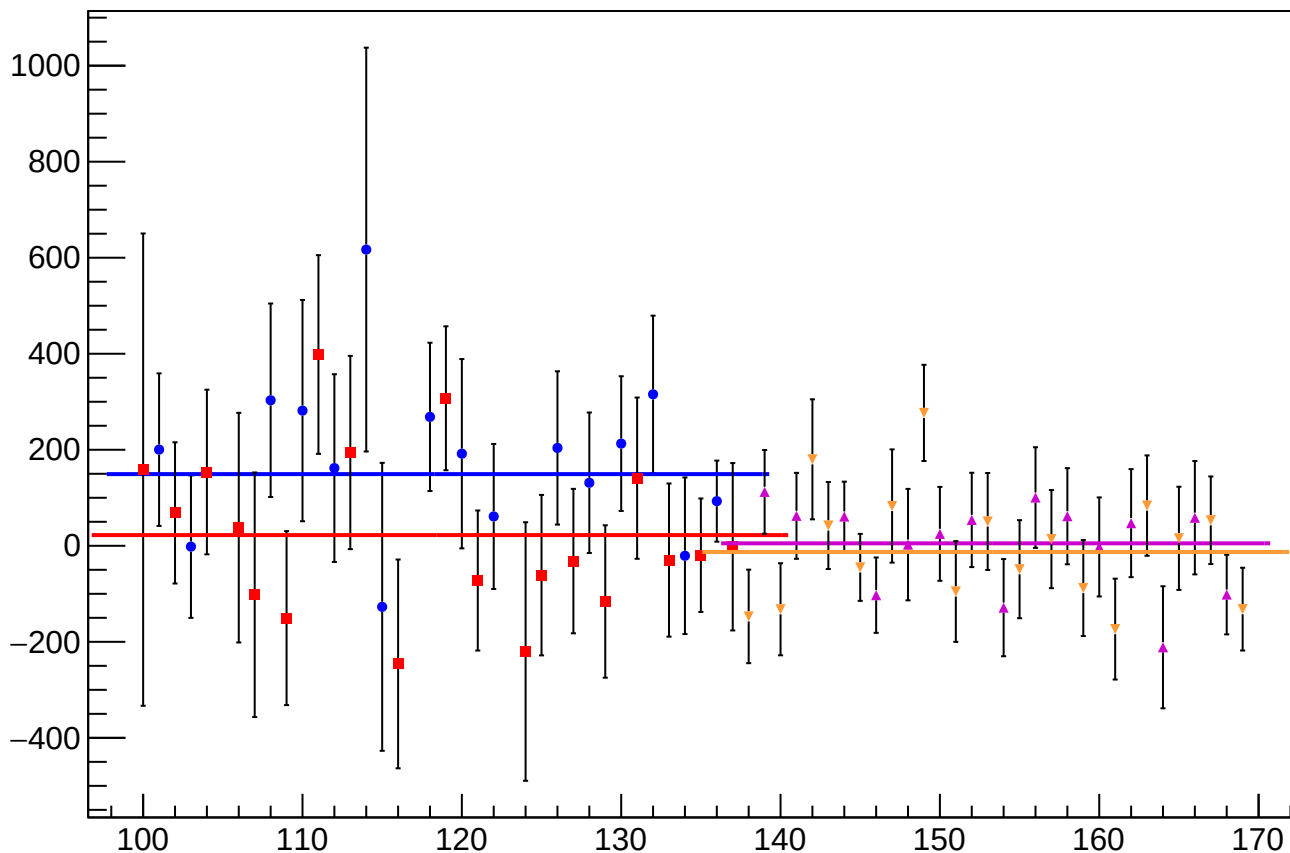
Right: 703.854+/-0.135 χ^2/NDF : 1941854.8/34

In: 537.613+/-0.089 χ^2/NDF : 2233447.5/30

Out: 533.029+/-0.086 χ^2/NDF : 2711375.6/35

All: 535.243+/-0.062 χ^2/NDF : 4946205.3/66

eigen_cor_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 149.294 $\pm$ 39.687 χ^2 /NDF: 8.0/15

Left Out: -12.802 $\pm$ 23.694 χ^2 /NDF:22.9/16

Right Out: 22.297 $\pm$ 40.123 χ^2 /NDF: 14.2/18

Left In: 5.147 $\pm$ 24.759 χ^2 /NDF:12.5/14

Left: -4.222 $\pm$ 17.118 χ^2 /NDF: 35.7/31

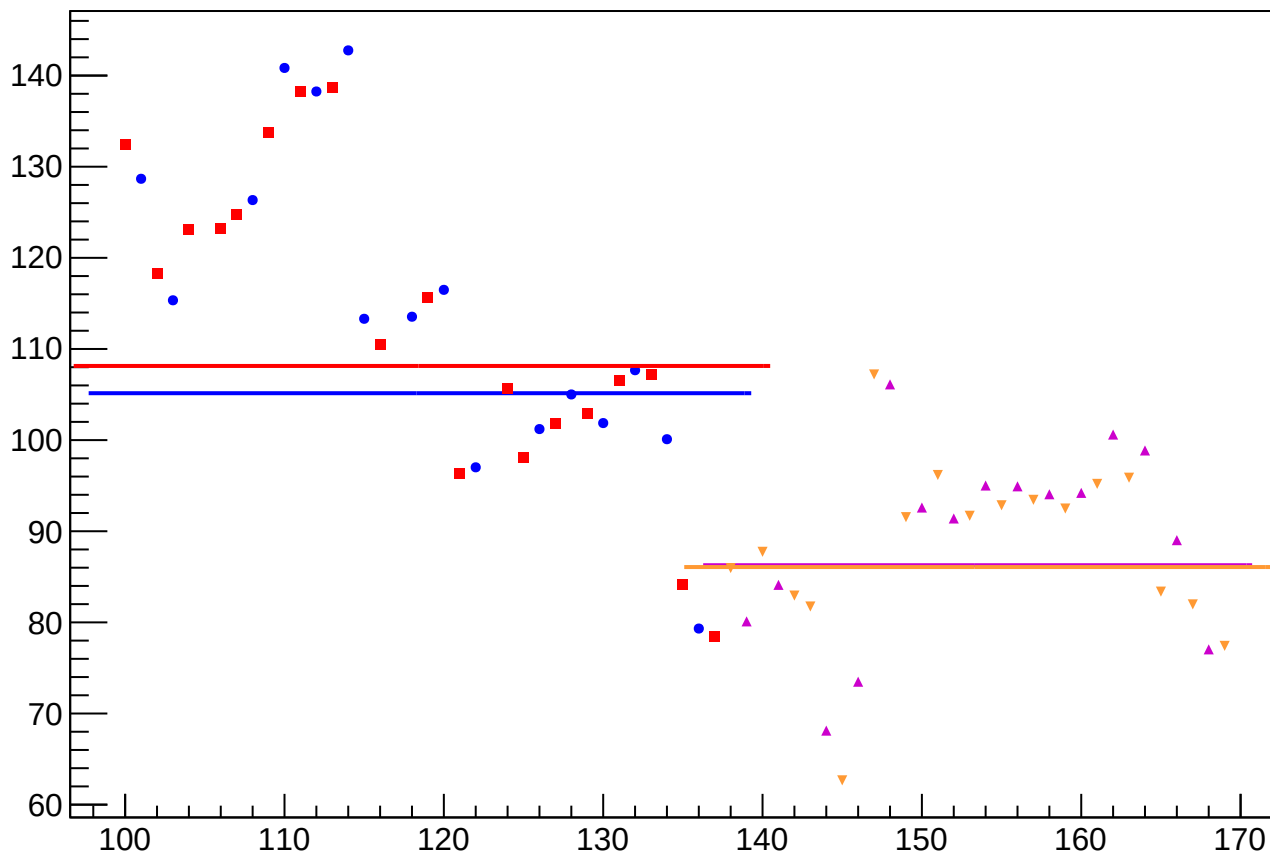
Right: 86.488 $\pm$ 28.216 χ^2 /NDF: 27.3/34

In: 45.530 $\pm$ 21.006 χ^2 /NDF:30.0/30

Out: -3.727 $\pm$ 20.402 χ^2 /NDF:37.7/35

All: 20.183 $\pm$ 14.635 χ^2 /NDF: 70.5/66

eigen_cor_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 105.146 +/- 0.028 χ^2/NDF : 408406.5/15

Left Out: 86.071 +/- 0.017 χ^2/NDF : 412072.5/16

Right Out: 108.136 +/- 0.028 χ^2/NDF : 346321.9/18

Left In: 86.272 +/- 0.018 χ^2/NDF : 391970.2/14

Left: 86.167 +/- 0.012 χ^2/NDF : 804111.7/31

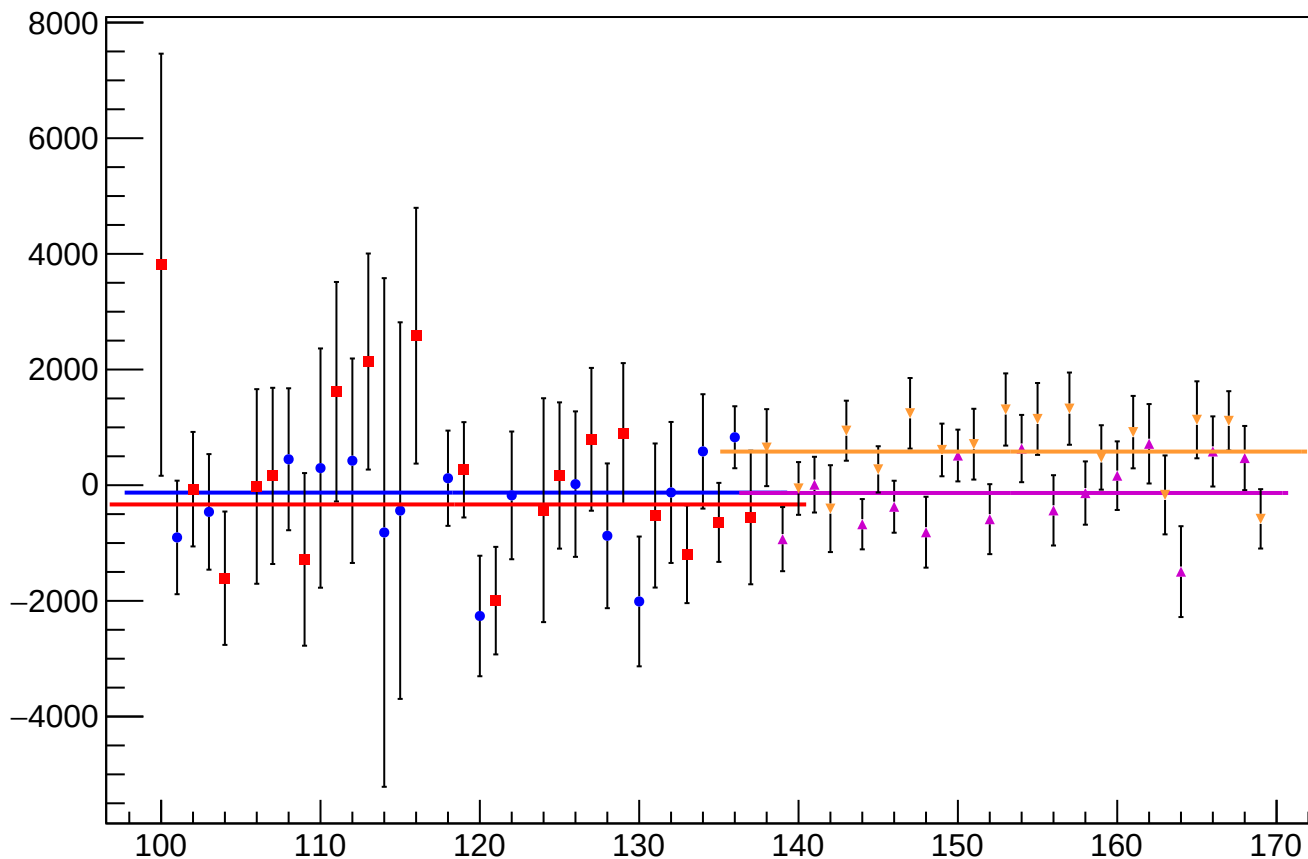
Right: 106.625 +/- 0.020 χ^2/NDF : 760343.1/34

In: 91.560 +/- 0.015 χ^2/NDF : 1125992.4/30

Out: 91.776 +/- 0.014 χ^2/NDF : 1206893.3/35

All: 91.671 +/- 0.010 χ^2/NDF : 2332994.9/66

asym_sam_26_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -128.047 $\pm$ 268.611 χ^2 /NDF: 12.3/15

Left Out: 581.492 $\pm$ 135.504 χ^2 /NDF:18.0/16

Right Out: -332.665 $\pm$ 270.835 χ^2 /NDF: 14.7/18

Left In: -134.340 $\pm$ 141.791 χ^2 /NDF:17.2/14

Left: 239.799 $\pm$ 97.963 χ^2 /NDF: 48.5/31

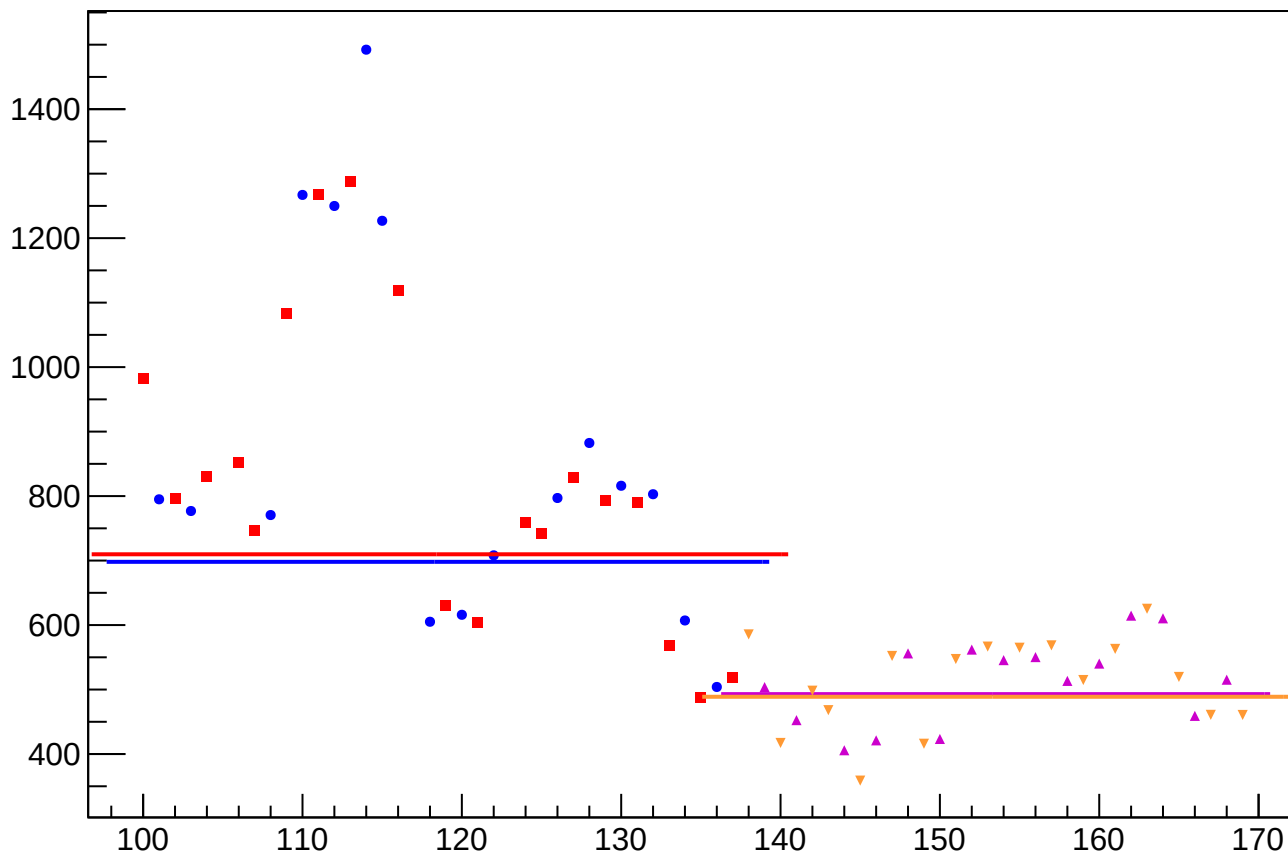
Right: -229.512 $\pm$ 190.718 χ^2 /NDF: 27.3/34

In: -132.969 $\pm$ 125.393 χ^2 /NDF:29.5/30

Out: 398.475 $\pm$ 121.183 χ^2 /NDF:41.8/35

All: 141.826 $\pm$ 87.140 χ^2 /NDF: 80.6/66

asym_sam_26_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 698.055+/-0.190 χ^2/NDF : 912861.2/15

Left Out: 488.793+/-0.096 χ^2/NDF : 619604.9/16

Right Out: 709.748+/-0.192 χ^2/NDF : 1027114.2/18

Left In: 492.907+/-0.100 χ^2/NDF : 408223.6/14

Left: 490.757+/-0.069 χ^2/NDF : 1028708.6/31

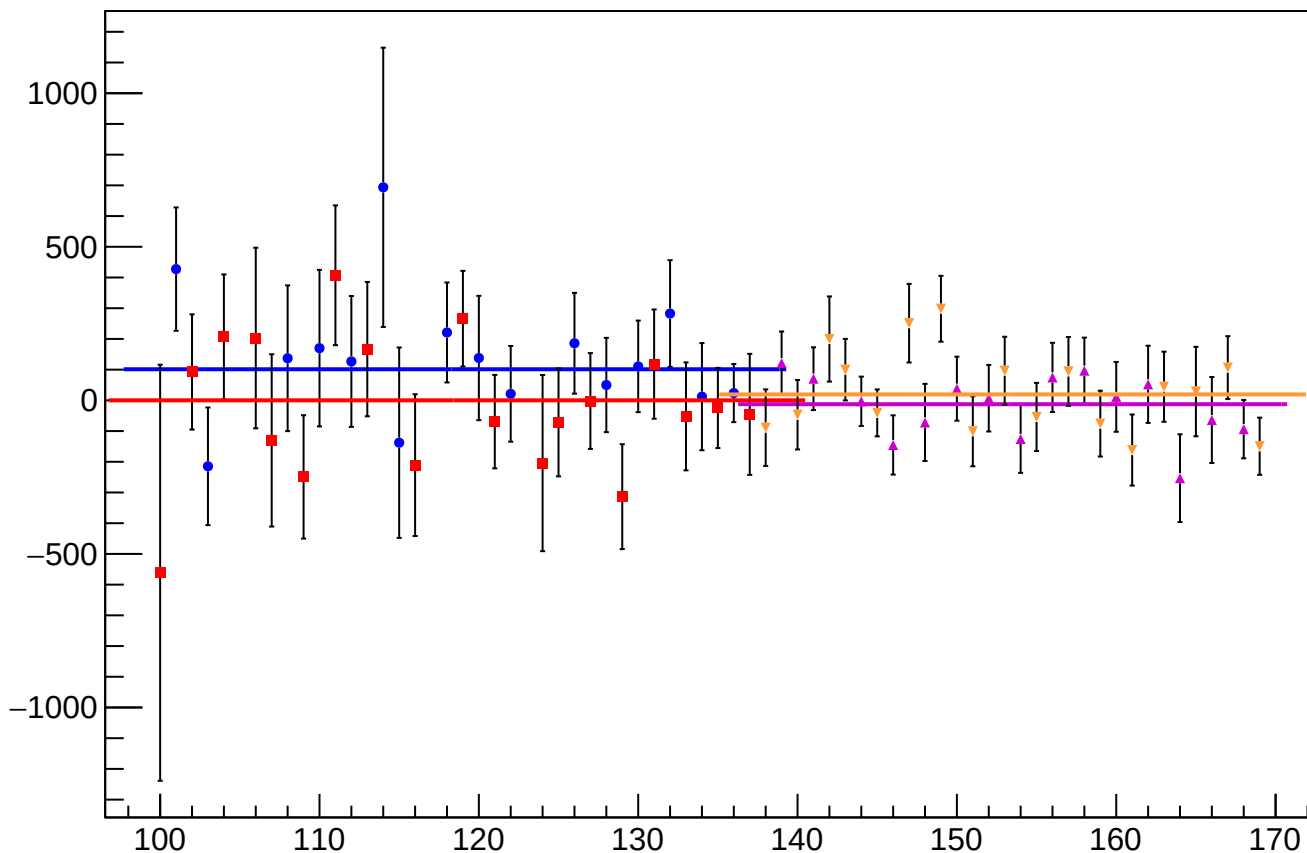
Right: 703.854+/-0.135 χ^2/NDF : 1941854.8/34

In: 537.613+/-0.089 χ^2/NDF : 2233447.5/30

Out: 533.029+/-0.086 χ^2/NDF : 2711375.6/35

All: 535.243+/-0.062 χ^2/NDF : 4946205.3/66

dit_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 101.281+/-43.510 χ^2/NDF : 11.0/15

Left Out: 19.293+/-26.445 χ^2/NDF :23.9/16

Right Out: 0.125+/-44.035 χ^2/NDF : 16.6/18

Left In: -12.535+/-27.816 χ^2/NDF :11.5/14

Left: 4.182+/-19.166 χ^2/NDF : 36.0/31

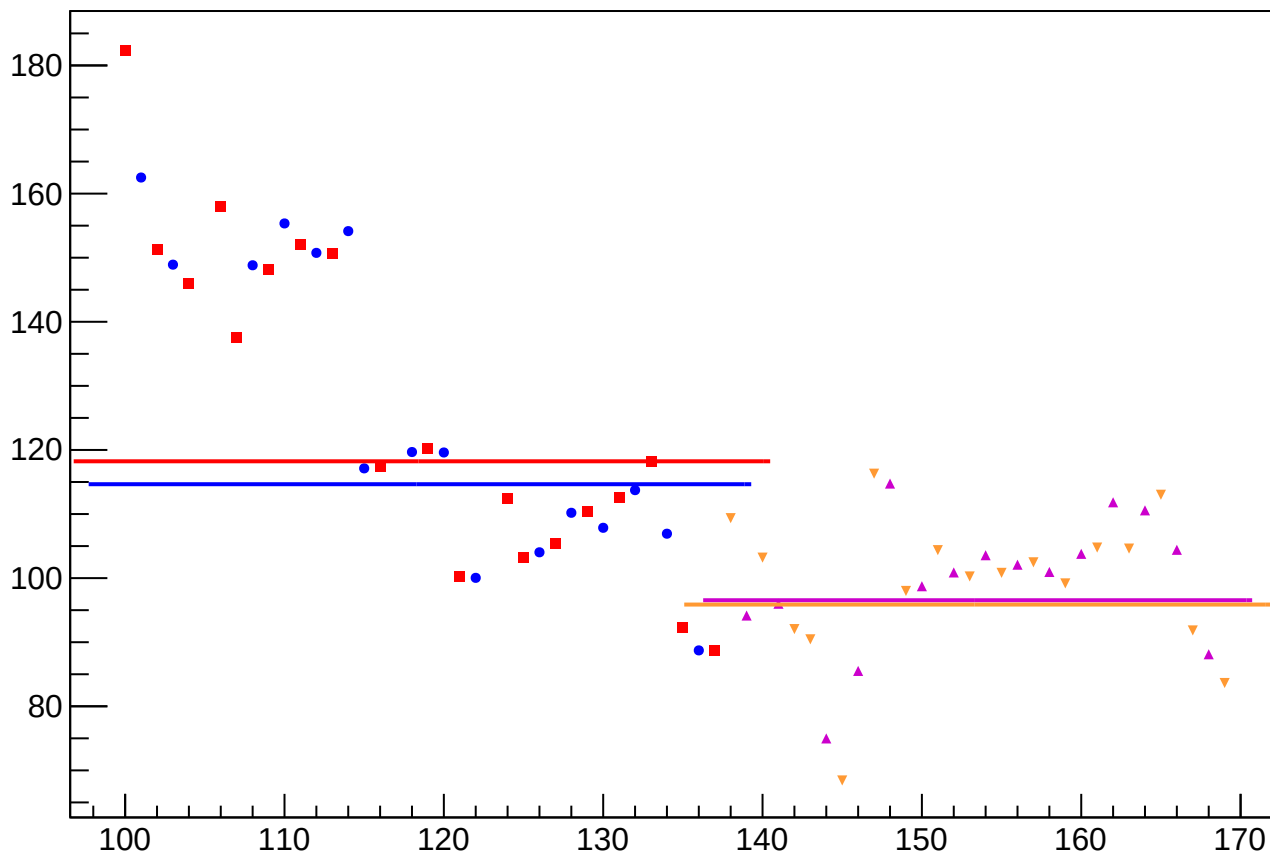
Right: 51.310+/-30.950 χ^2/NDF : 30.3/34

In: 20.486+/-23.436 χ^2/NDF :27.3/30

Out: 14.212+/-22.671 χ^2/NDF :40.6/35

All: 17.245+/-16.294 χ^2/NDF : 68.0/66

dit_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 114.655 +/- 0.031 χ^2/NDF : 531976.2/15

Left Out: 95.875 +/- 0.019 χ^2/NDF : 465094.5/16

Right Out: 118.230 +/- 0.031 χ^2/NDF : 483407.4/18

Left In: 96.549 +/- 0.020 χ^2/NDF : 312945.6/14

Left: 96.195 +/- 0.014 χ^2/NDF : 778657.7/31

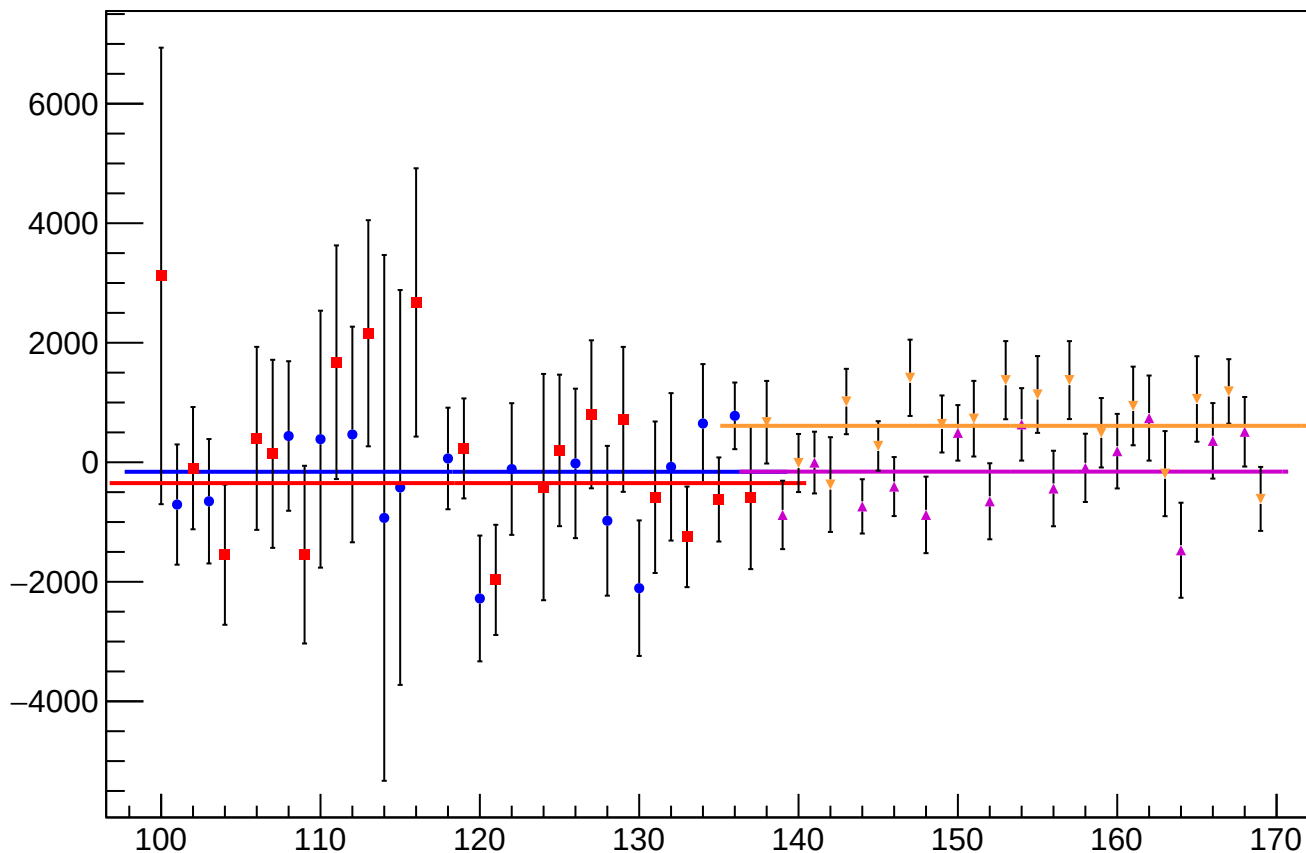
Right: 116.421 +/- 0.022 χ^2/NDF : 1022057.2/34

In: 101.802 +/- 0.017 χ^2/NDF : 1090755.5/30

Out: 101.801 +/- 0.016 χ^2/NDF : 1327338.2/35

All: 101.801 +/- 0.012 χ^2/NDF : 2418093.7/66

asym_sam_26_48_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -159.110 $\pm$ 274.558 χ^2 /NDF: 12.0/15

Left Out: 610.279 $\pm$ 141.876 χ^2 /NDF: 17.7/16

Right Out: -348.528 $\pm$ 273.595 χ^2 /NDF: 14.3/18

Left In: -156.658 $\pm$ 148.795 χ^2 /NDF: 15.9/14

Left: 245.058 $\pm$ 102.680 χ^2 /NDF: 47.6/31

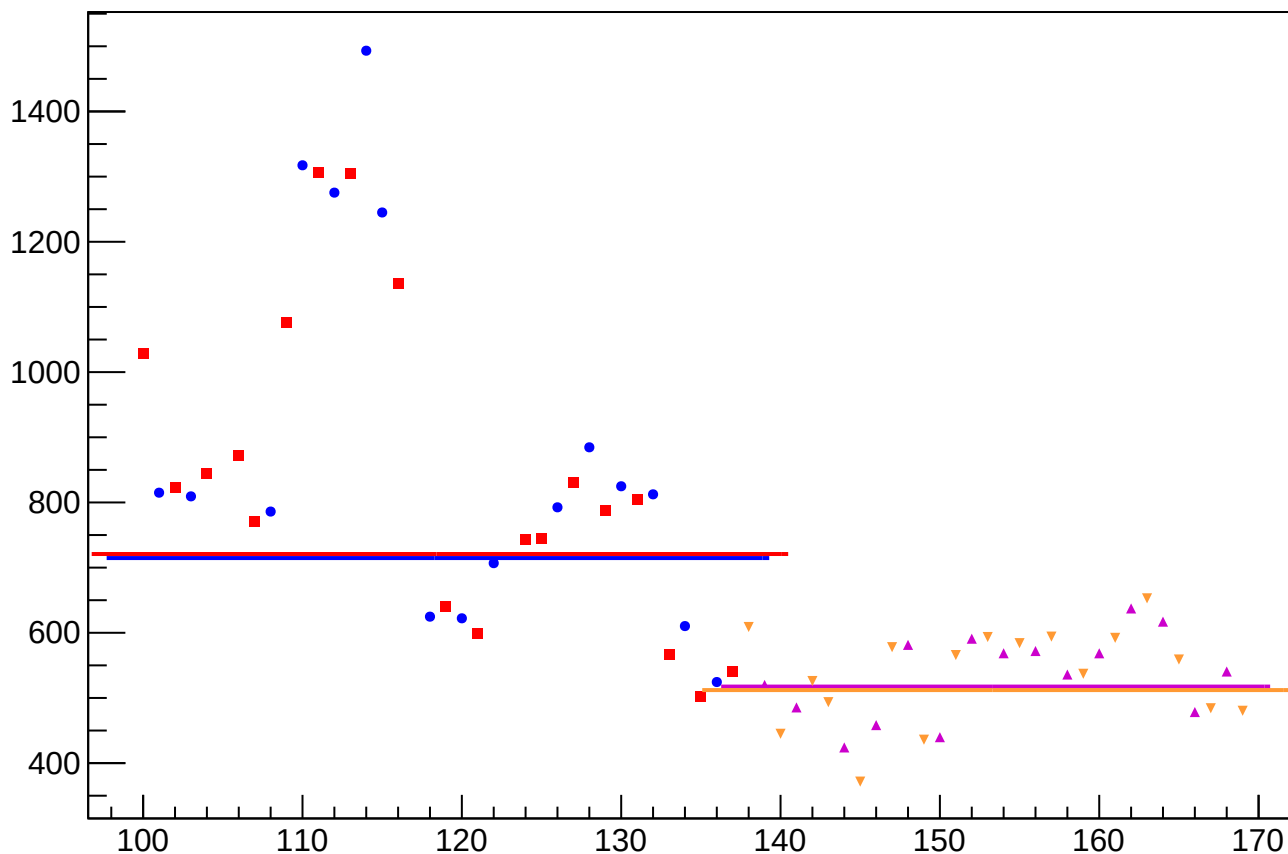
Right: -254.152 $\pm$ 193.800 χ^2 /NDF: 26.5/34

In: -157.215 $\pm$ 130.819 χ^2 /NDF: 27.9/30

Out: 407.089 $\pm$ 125.949 χ^2 /NDF: 41.7/35

All: 135.638 $\pm$ 90.732 χ^2 /NDF: 79.3/66

asym_sam_26_48_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 714.666 $\pm$ 0.194 χ^2 /NDF: 876217.1/15

Left Out: 512.078 $\pm$ 0.100 χ^2 /NDF: 617532.7/16

Right Out: 720.885 $\pm$ 0.193 χ^2 /NDF: 1018435.1/18

Left In: 517.463 $\pm$ 0.105 χ^2 /NDF: 367000.3/14

Left: 514.643 $\pm$ 0.073 χ^2 /NDF: 985905.0/31

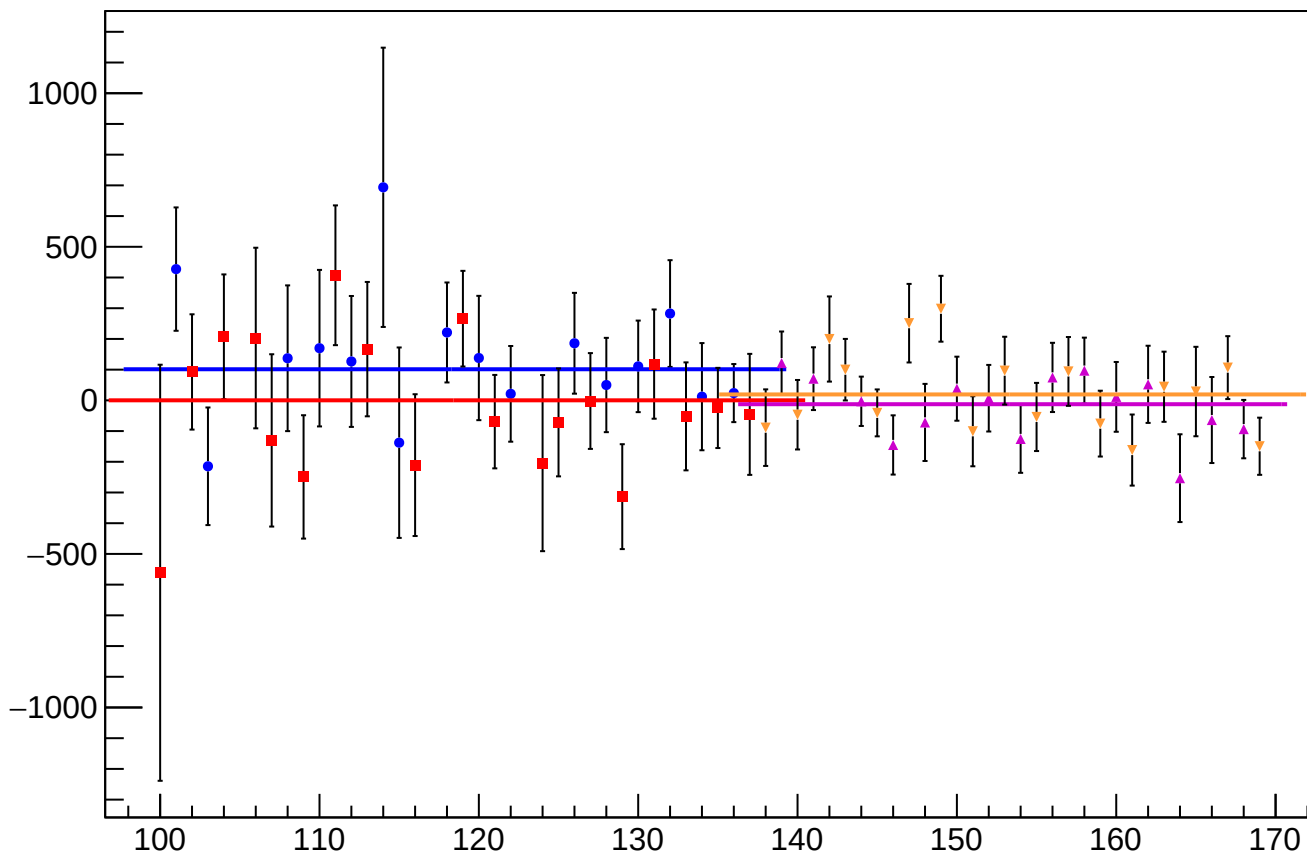
Right: 717.786 $\pm$ 0.137 χ^2 /NDF: 1895167.0/34

In: 562.234 $\pm$ 0.093 χ^2 /NDF: 2040761.6/30

Out: 556.328 $\pm$ 0.089 χ^2 /NDF: 2554027.1/35

All: 559.169 $\pm$ 0.064 χ^2 /NDF: 4596903.5/66

eigen_dit_asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 101.278 $\pm$ 43.510 χ^2 /NDF: 11.0/15

Left Out: 19.291 $\pm$ 26.445 χ^2 /NDF:23.9/16

Right Out: 0.125 $\pm$ 44.035 χ^2 /NDF: 16.6/18

Left In: -12.536 $\pm$ 27.816 χ^2 /NDF:11.5/14

Left: 4.181 $\pm$ 19.166 χ^2 /NDF: 36.0/31

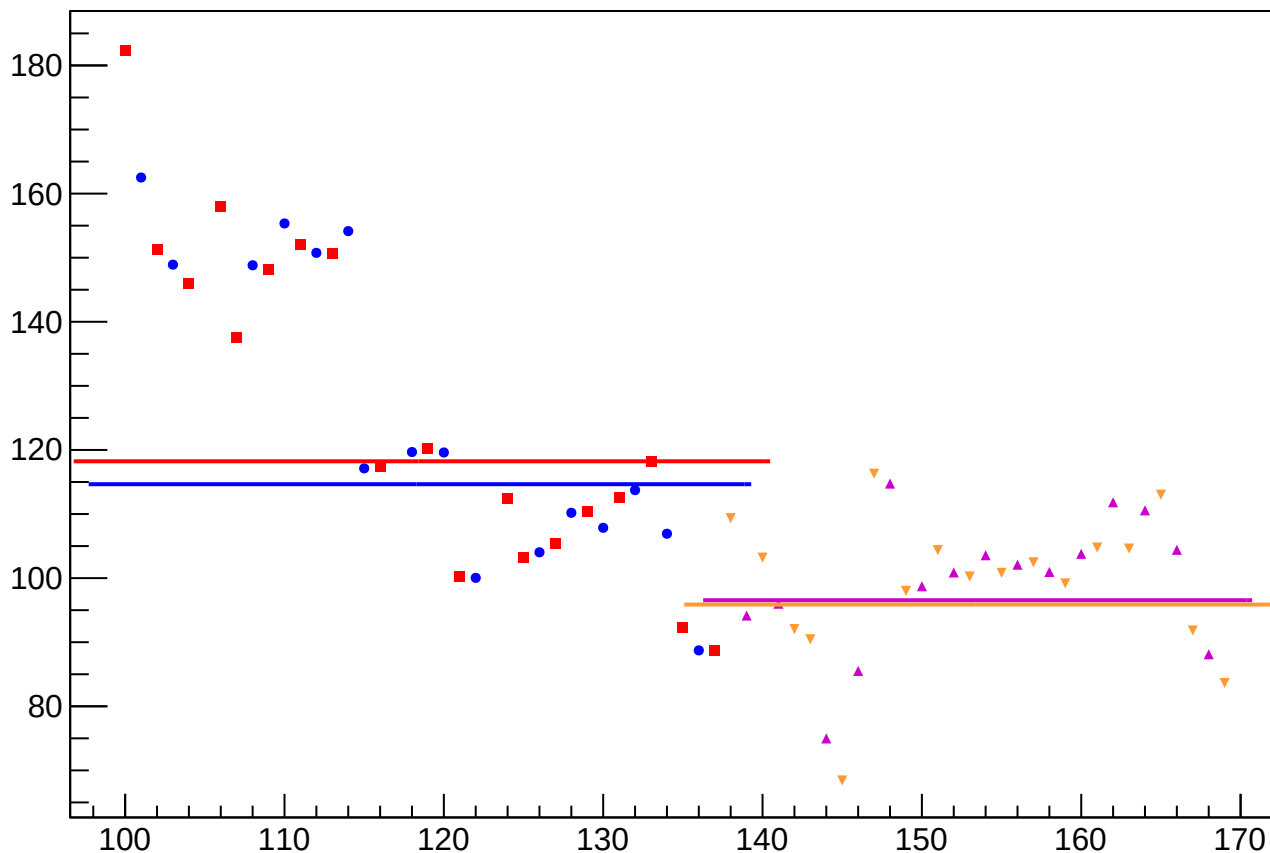
Right: 51.308 $\pm$ 30.950 χ^2 /NDF: 30.3/34

In: 20.484 $\pm$ 23.436 χ^2 /NDF:27.3/30

Out: 14.211 $\pm$ 22.671 χ^2 /NDF:40.6/35

All: 17.244 $\pm$ 16.294 χ^2 /NDF: 68.0/66

eigen_dit_asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 114.655 $\pm$ 0.031 χ^2 /NDF: 531962.9/15

Left Out: 95.875 $\pm$ 0.019 χ^2 /NDF: 465103.0/16

Right Out: 118.230 $\pm$ 0.031 χ^2 /NDF: 483401.1/18

Left In: 96.550 $\pm$ 0.020 χ^2 /NDF: 312947.1/14

Left: 96.195 $\pm$ 0.014 χ^2 /NDF: 778667.7/31

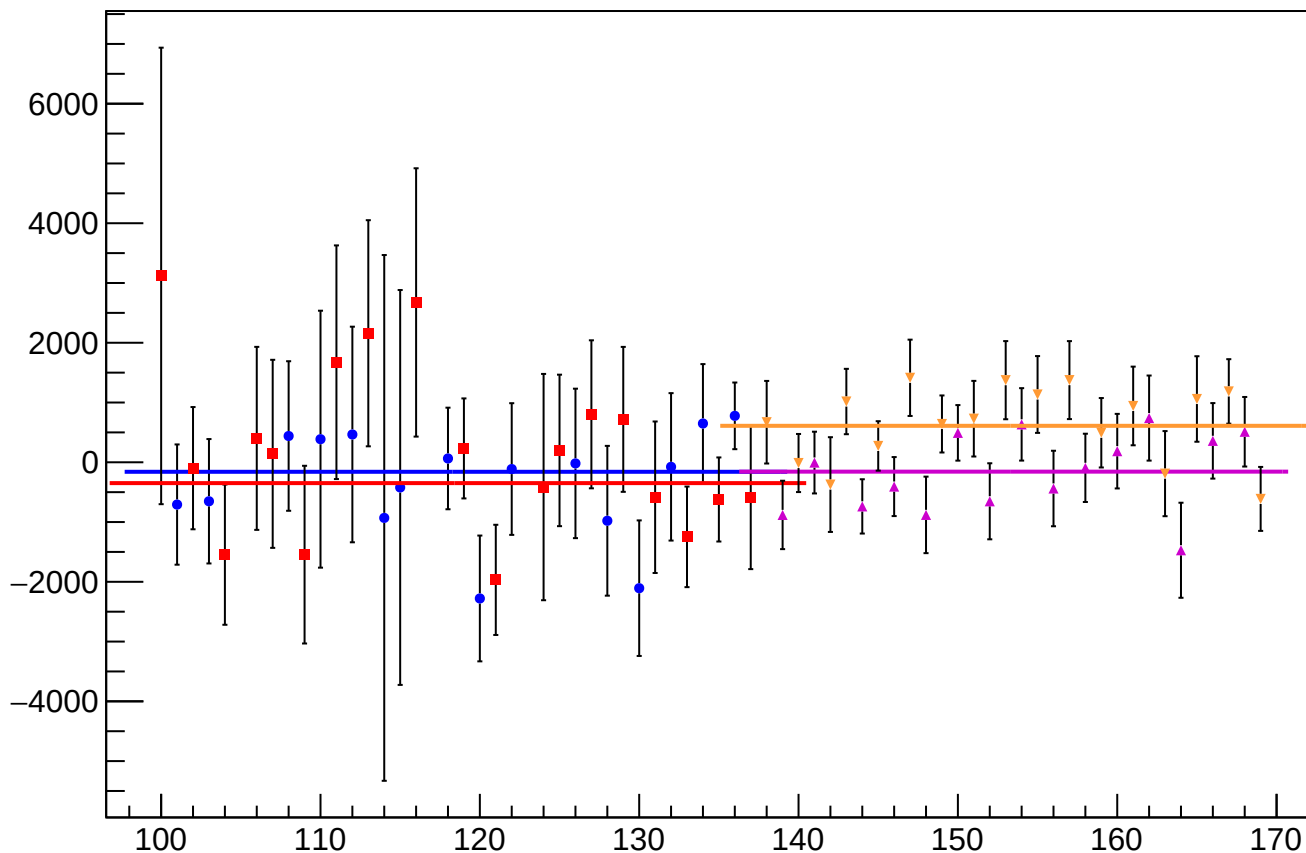
Right: 116.421 $\pm$ 0.022 χ^2 /NDF: 1022036.9/34

In: 101.802 $\pm$ 0.017 χ^2 /NDF: 1090746.9/30

Out: 101.801 $\pm$ 0.016 χ^2 /NDF: 1327340.8/35

All: 101.801 $\pm$ 0.012 χ^2 /NDF: 2418087.7/66

asym_sam_26_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -159.112 $\pm$ 274.558 χ^2 /NDF: 12.0/15

Left Out: 610.277 $\pm$ 141.876 χ^2 /NDF:17.7/16

Right Out: -348.528 $\pm$ 273.595 χ^2 /NDF: 14.3/18

Left In: -156.659 $\pm$ 148.795 χ^2 /NDF:15.9/14

Left: 245.057 $\pm$ 102.680 χ^2 /NDF: 47.6/31

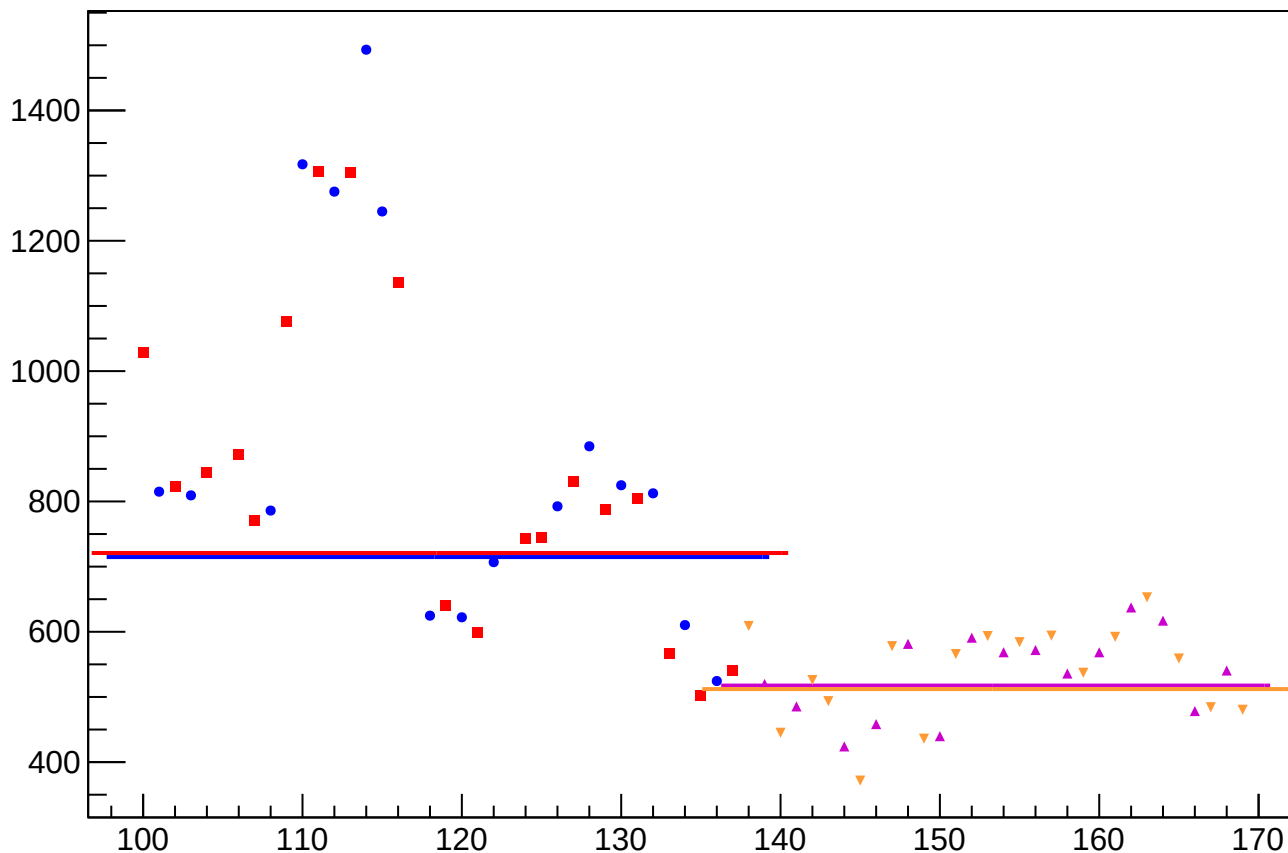
Right: -254.153 $\pm$ 193.800 χ^2 /NDF: 26.5/34

In: -157.216 $\pm$ 130.819 χ^2 /NDF:27.9/30

Out: 407.088 $\pm$ 125.949 χ^2 /NDF:41.7/35

All: 135.637 $\pm$ 90.732 χ^2 /NDF: 79.3/66

asym_sam_26_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 714.666 $\pm$ 0.194 χ^2 /NDF: 876211.4/15

Left Out: 512.078 $\pm$ 0.100 χ^2 /NDF: 617535.4/16

Right Out: 720.884 $\pm$ 0.193 χ^2 /NDF: 1018428.9/18

Left In: 517.463 $\pm$ 0.105 χ^2 /NDF: 366998.8/14

Left: 514.643 $\pm$ 0.073 χ^2 /NDF: 985906.2/31

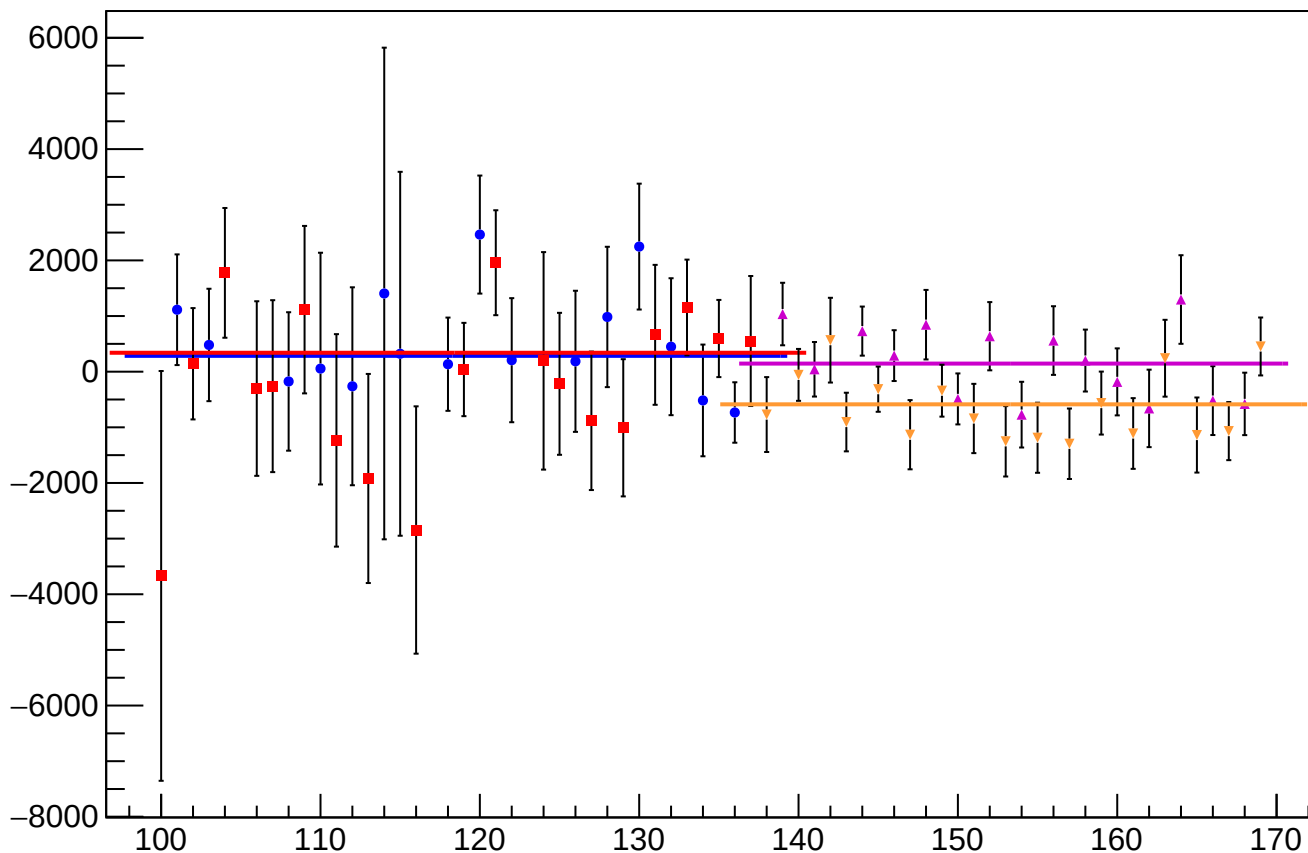
Right: 717.786 $\pm$ 0.137 χ^2 /NDF: 1895155.0/34

In: 562.234 $\pm$ 0.093 χ^2 /NDF: 2040754.1/30

Out: 556.328 $\pm$ 0.089 χ^2 /NDF: 2554022.8/35

All: 559.169 $\pm$ 0.064 χ^2 /NDF: 4596891.8/66

asym_sam_26_48_dd_mean vs Slug, Sign Corrected



Right In: 284.780 $\pm$ 271.944 χ^2 /NDF: 12.8/15

Left Out: -586.699 $\pm$ 137.715 χ^2 /NDF:16.6/16

Right Out: 340.018 $\pm$ 273.601 χ^2 /NDF: 14.1/18

Left In: 145.432 $\pm$ 144.081 χ^2 /NDF:17.7/14

Left: -237.165 $\pm$ 99.553 χ^2 /NDF: 47.7/31

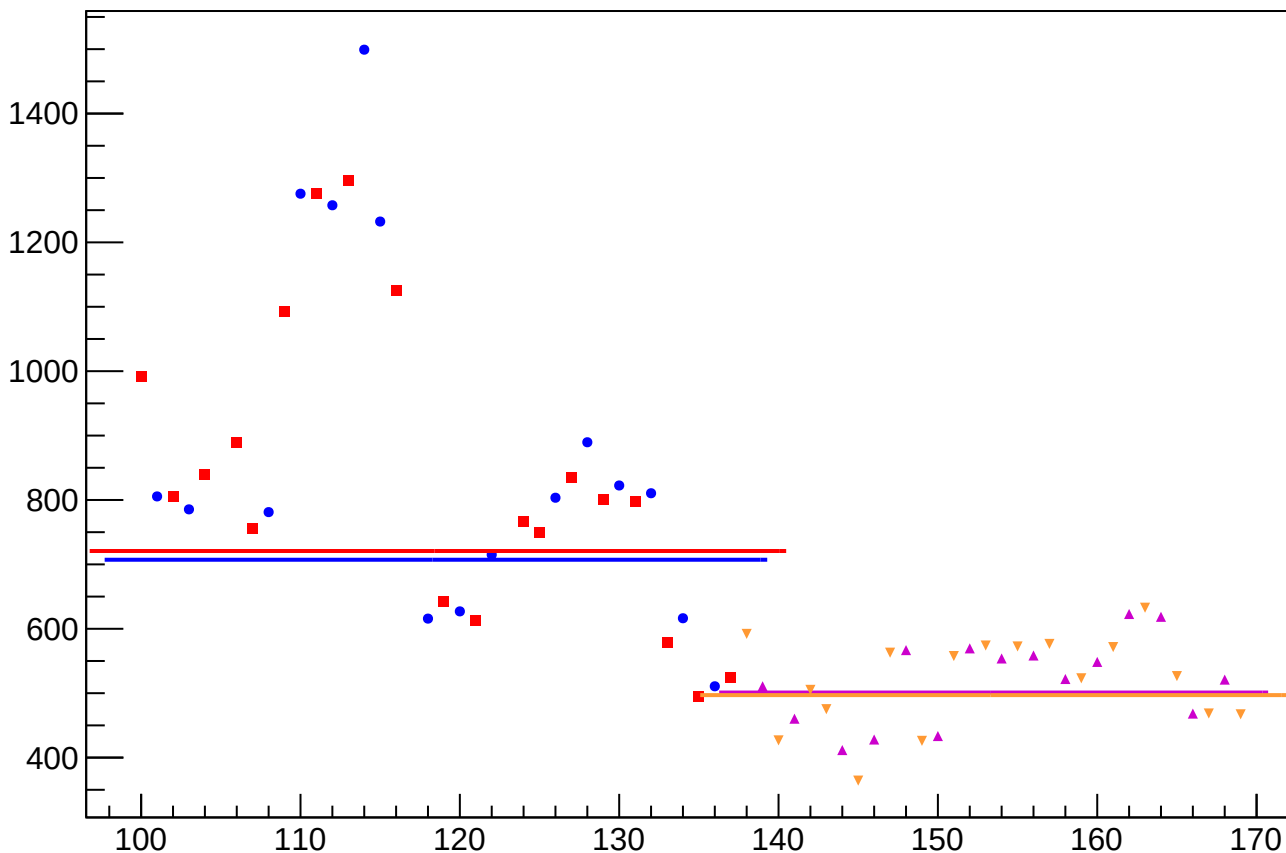
Right: 312.231 $\pm$ 192.877 χ^2 /NDF: 26.9/34

In: 175.975 $\pm$ 127.315 χ^2 /NDF:30.7/30

Out: -399.374 $\pm$ 123.011 χ^2 /NDF:39.8/35

All: -121.590 $\pm$ 88.464 χ^2 /NDF: 81.0/66

asym_sam_26_48_dd_rms vs Slug, Sign Corrected



Right In: 707.209 $\pm$ 0.192 χ^2 /NDF: 896689.9/15

Left Out: 497.010 $\pm$ 0.097 χ^2 /NDF: 605790.4/16

Right Out: 720.778 $\pm$ 0.193 χ^2 /NDF: 1015277.9/18

Left In: 501.027 $\pm$ 0.102 χ^2 /NDF: 400092.9/14

Left: 498.928 $\pm$ 0.070 χ^2 /NDF: 1006695.5/31

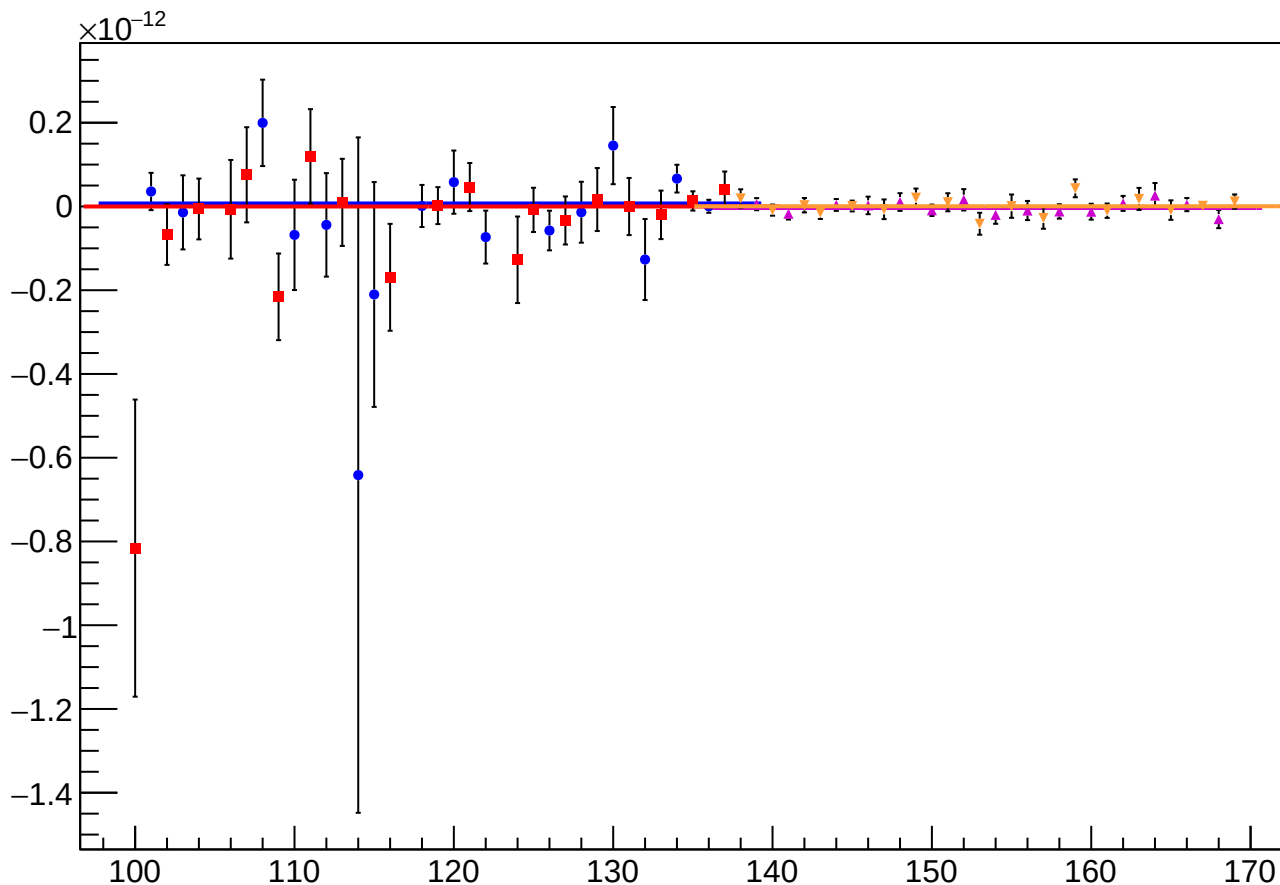
Right: 713.952 $\pm$ 0.136 χ^2 /NDF: 1914442.0/34

In: 546.218 $\pm$ 0.090 χ^2 /NDF: 2194470.7/30

Out: 542.242 $\pm$ 0.087 χ^2 /NDF: 2688437.4/35

All: 544.162 $\pm$ 0.063 χ^2 /NDF: 4883916.8/66

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :12.5/16

Right Out: -0.000+/-0.000 χ^2/NDF : 17.8/18

Left In: -0.000+/-0.000 χ^2/NDF :7.1/14

Left: -0.000+/-0.000 χ^2/NDF : 20.1/31

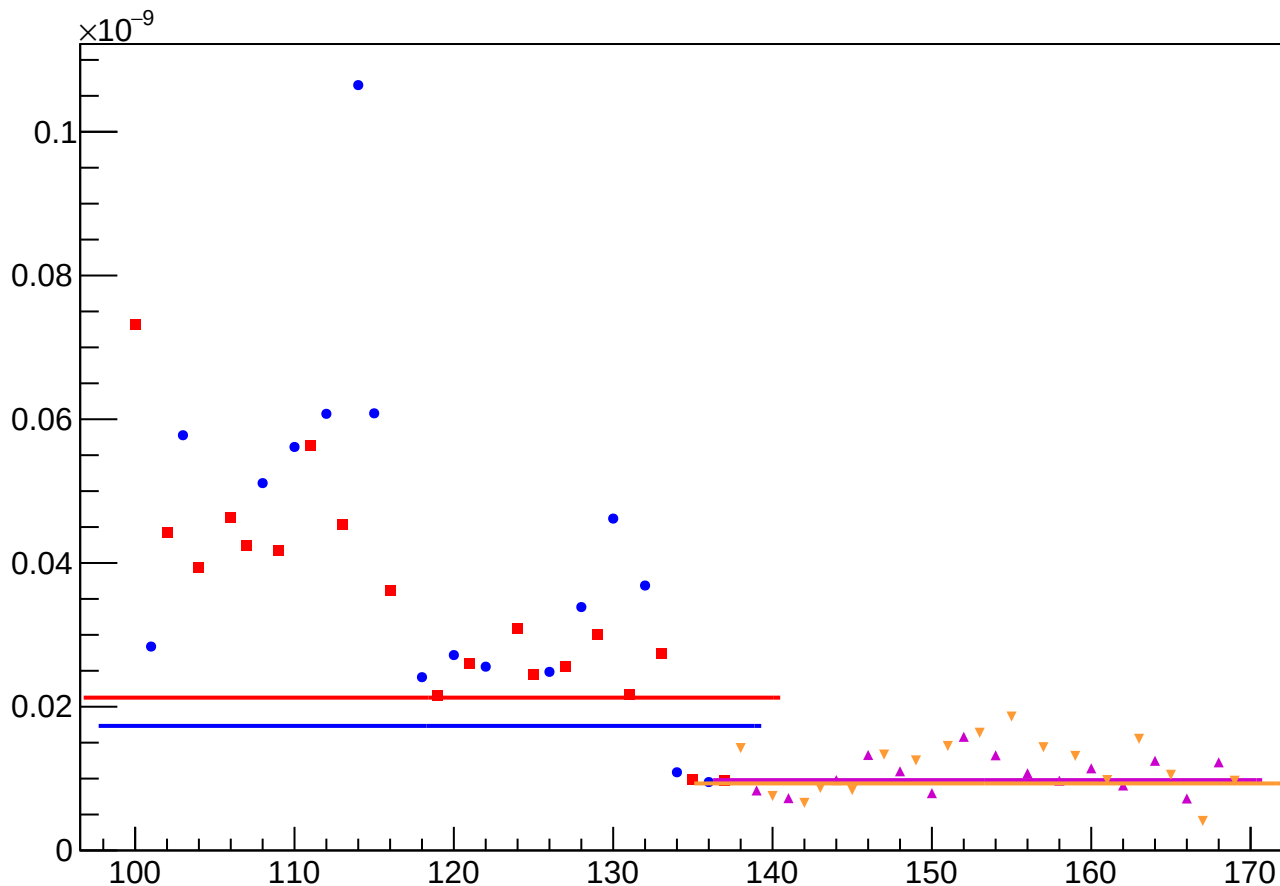
Right: 0.000+/-0.000 χ^2/NDF : 35.3/34

In: -0.000+/-0.000 χ^2/NDF :25.2/30

Out: 0.000+/-0.000 χ^2/NDF :30.3/35

All: -0.000+/-0.000 χ^2/NDF : 55.7/66

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2368825.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1676978.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1671050.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 461863.6/14

Left: 0.000+/-0.000 χ^2/NDF : 2149764.6/31

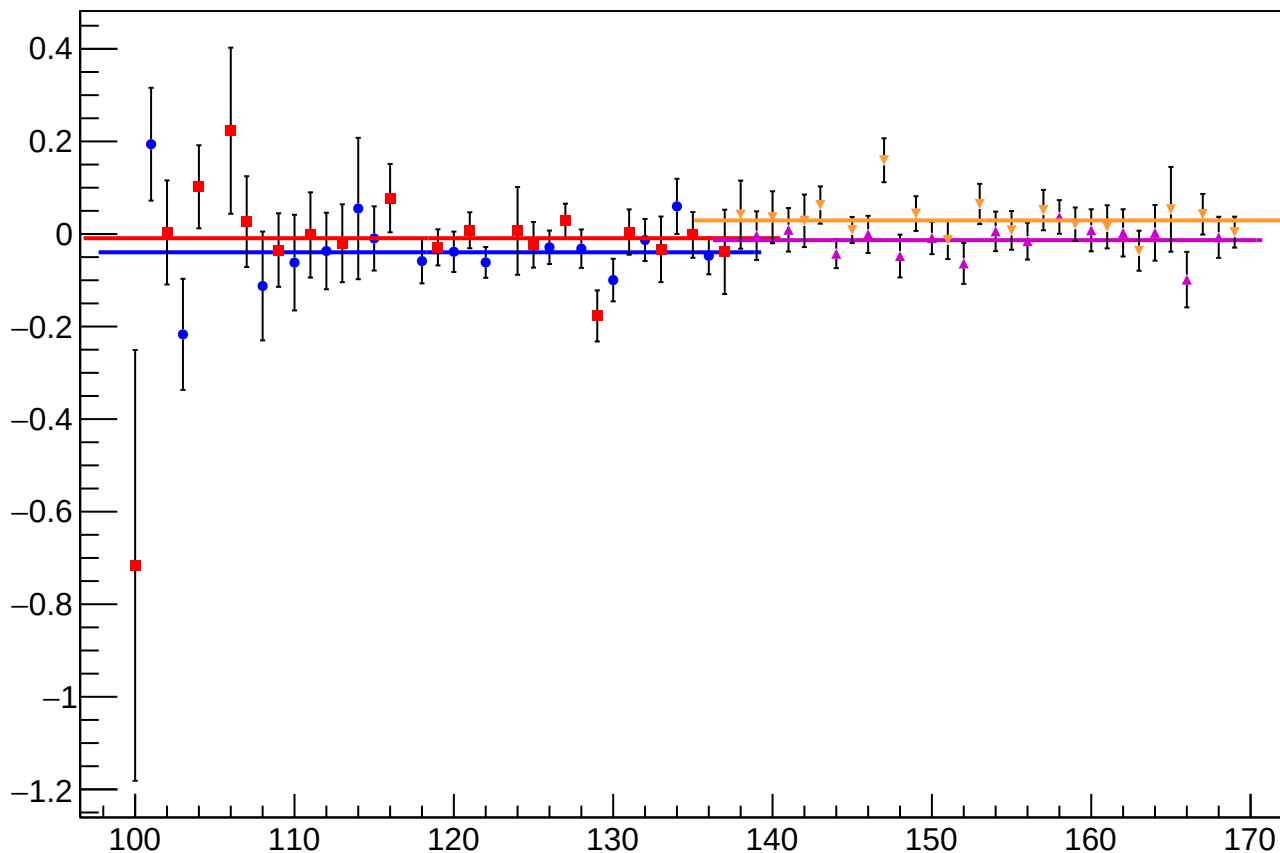
Right: 0.000+/-0.000 χ^2/NDF : 4139315.0/34

In: 0.000+/-0.000 χ^2/NDF : 3574101.9/30

Out: 0.000+/-0.000 χ^2/NDF : 4792020.7/35

All: 0.000+/-0.000 χ^2/NDF : 8376598.5/66

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.013 χ^2/NDF : 12.4/15

Left Out: 0.029 ± 0.010 χ^2/NDF : 14.3/16

Right Out: -0.009 ± 0.014 χ^2/NDF : 18.3/18

Left In: -0.013 ± 0.011 χ^2/NDF : 7.6/14

Left: 0.010 ± 0.008 χ^2/NDF : 29.8/31

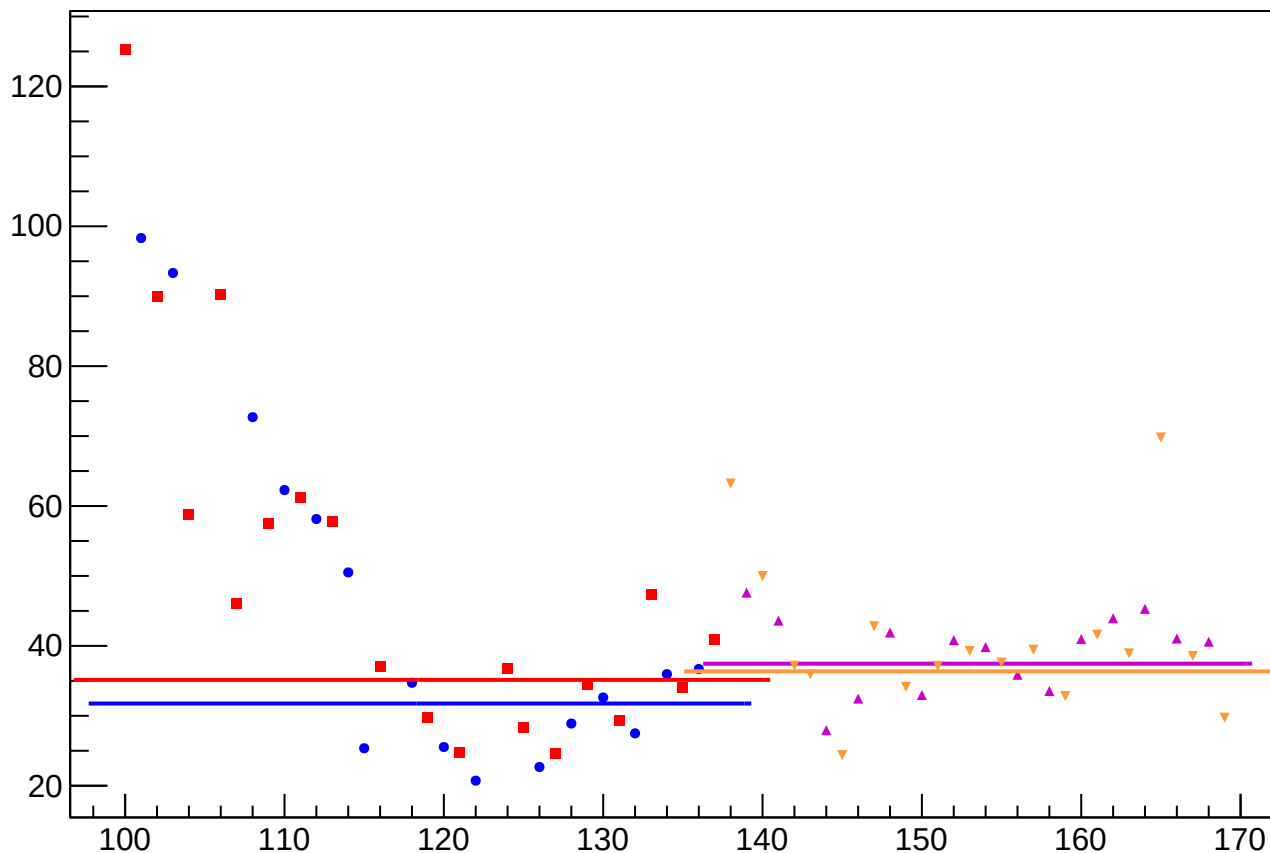
Right: -0.025 ± 0.010 χ^2/NDF : 33.2/34

In: -0.024 ± 0.008 χ^2/NDF : 22.4/30

Out: 0.016 ± 0.008 χ^2/NDF : 37.4/35

All: -0.004 ± 0.006 χ^2/NDF : 71.2/66

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 31.755+/-0.009 χ^2/NDF : 2252399.3/15

Left Out: 36.361+/-0.007 χ^2/NDF : 1214321.4/16

Right Out: 35.140+/-0.010 χ^2/NDF : 1844676.3/18

Left In: 37.457+/-0.008 χ^2/NDF : 518385.8/14

Left: 36.871+/-0.005 χ^2/NDF : 1743158.8/31

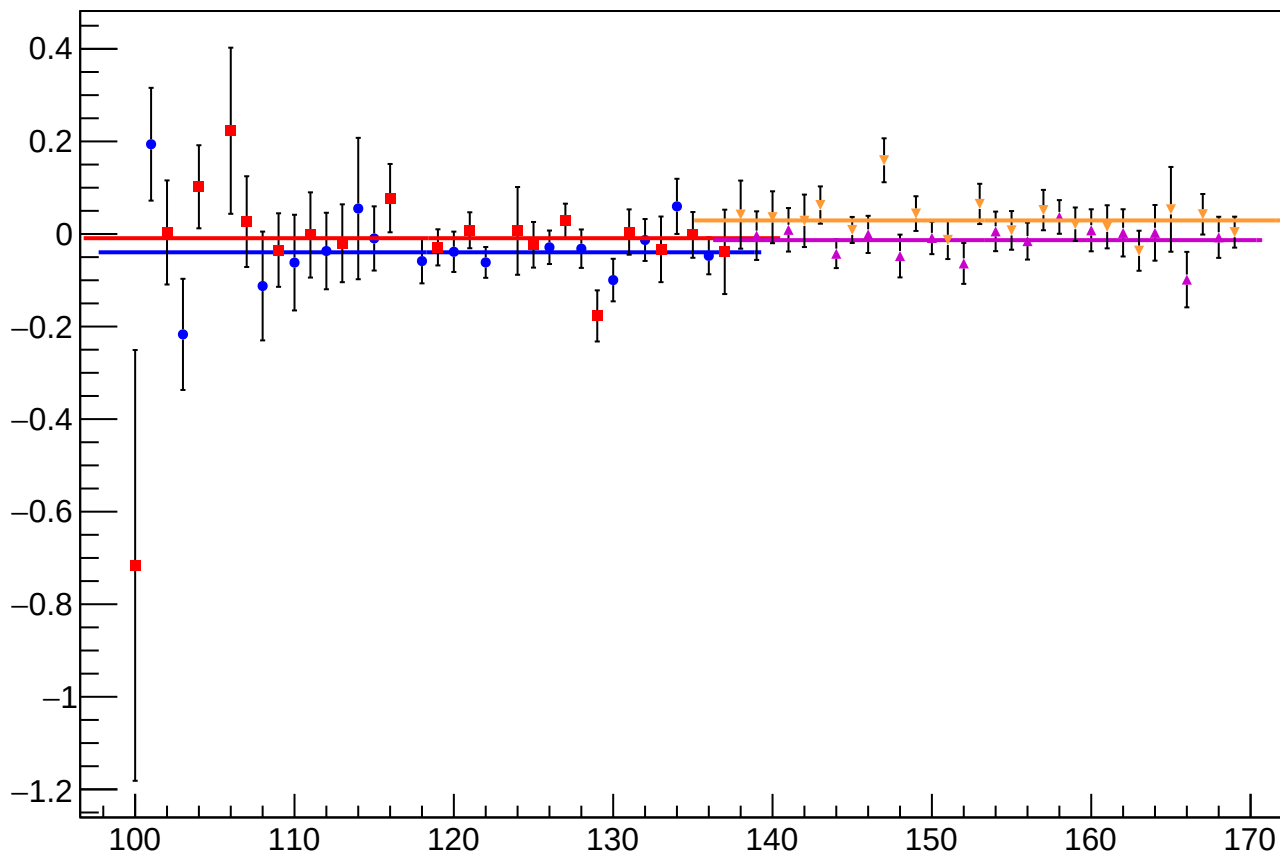
Right: 33.323+/-0.007 χ^2/NDF : 4158326.5/34

In: 35.090+/-0.006 χ^2/NDF : 2990263.4/30

Out: 35.936+/-0.006 χ^2/NDF : 3068698.3/35

All: 35.520+/-0.004 χ^2/NDF : 6069082.0/66

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.013 $\chi^2/\text{NDF}: 12.4/15$

Left Out: 0.029 ± 0.010 $\chi^2/\text{NDF}: 14.3/16$

Right Out: -0.009 ± 0.014 $\chi^2/\text{NDF}: 18.3/18$

Left In: -0.013 ± 0.011 $\chi^2/\text{NDF}: 7.6/14$

Left: 0.010 ± 0.008 $\chi^2/\text{NDF}: 29.8/31$

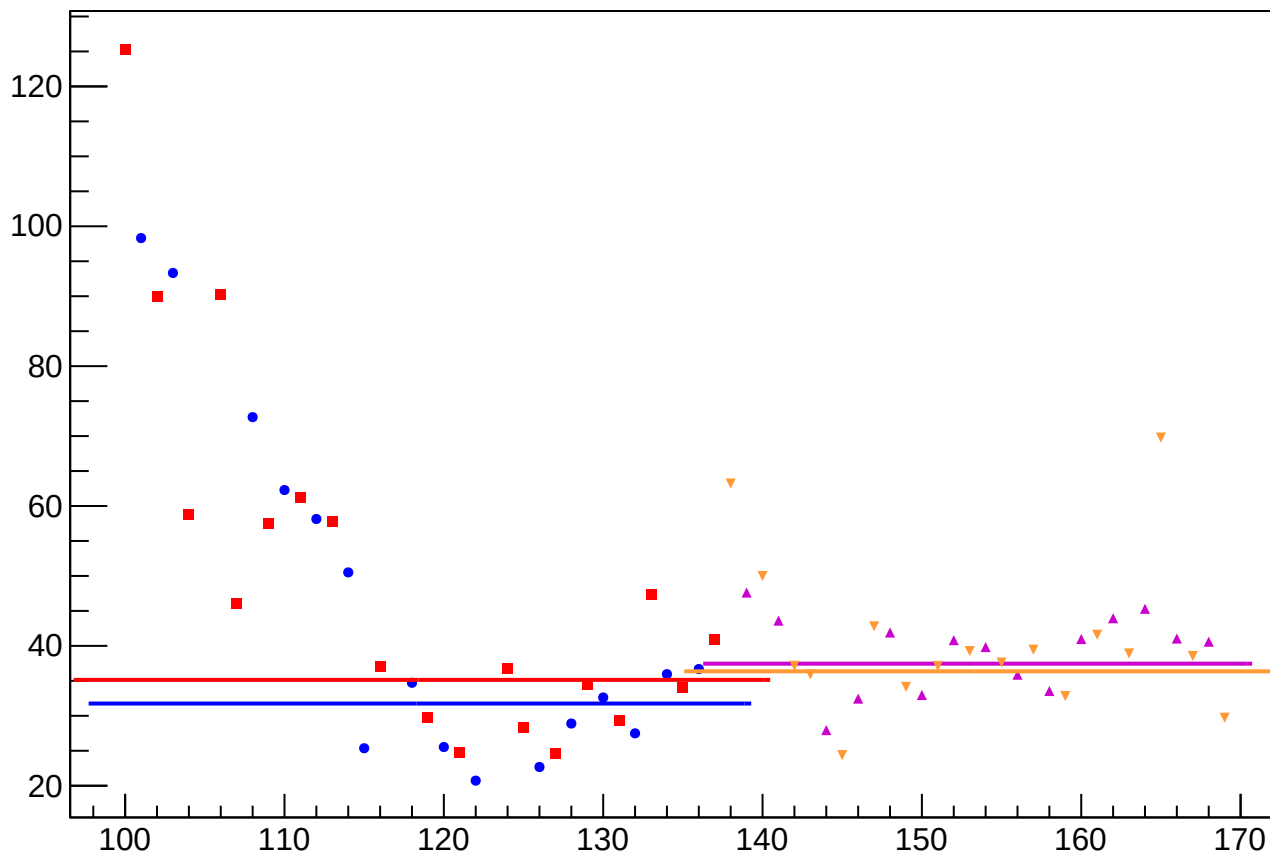
Right: -0.025 ± 0.010 $\chi^2/\text{NDF}: 33.2/34$

In: -0.024 ± 0.008 $\chi^2/\text{NDF}: 22.4/30$

Out: 0.016 ± 0.008 $\chi^2/\text{NDF}: 37.4/35$

All: -0.004 ± 0.006 $\chi^2/\text{NDF}: 71.2/66$

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 31.755 $\pm$ 0.009 χ^2 /NDF: 2252399.3/15

Left Out: 36.361 $\pm$ 0.007 χ^2 /NDF: 1214321.4/16

Right Out: 35.140 $\pm$ 0.010 χ^2 /NDF: 1844676.3/18

Left In: 37.457 $\pm$ 0.008 χ^2 /NDF: 518385.8/14

Left: 36.871 $\pm$ 0.005 χ^2 /NDF: 1743158.8/31

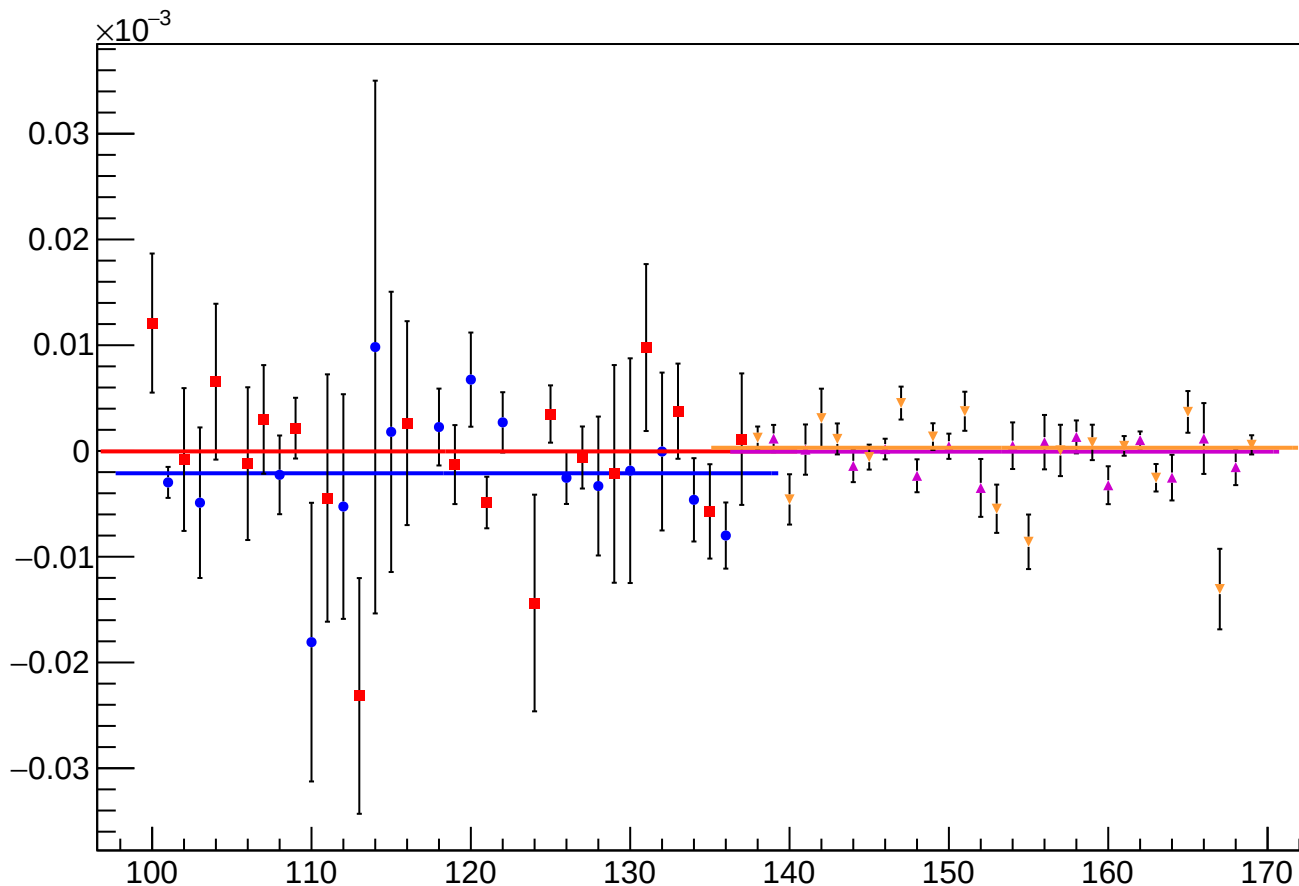
Right: 33.323 $\pm$ 0.007 χ^2 /NDF: 4158326.5/34

In: 35.090 $\pm$ 0.006 χ^2 /NDF: 2990263.4/30

Out: 35.936 $\pm$ 0.006 χ^2 /NDF: 3068698.3/35

All: 35.520 $\pm$ 0.004 χ^2 /NDF: 6069082.0/66

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 14.7/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 57.0/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 21.4/18

Left In: -0.000 ± 0.000 χ^2/NDF : 13.7/14

Left: 0.000 ± 0.000 χ^2/NDF : 71.2/31

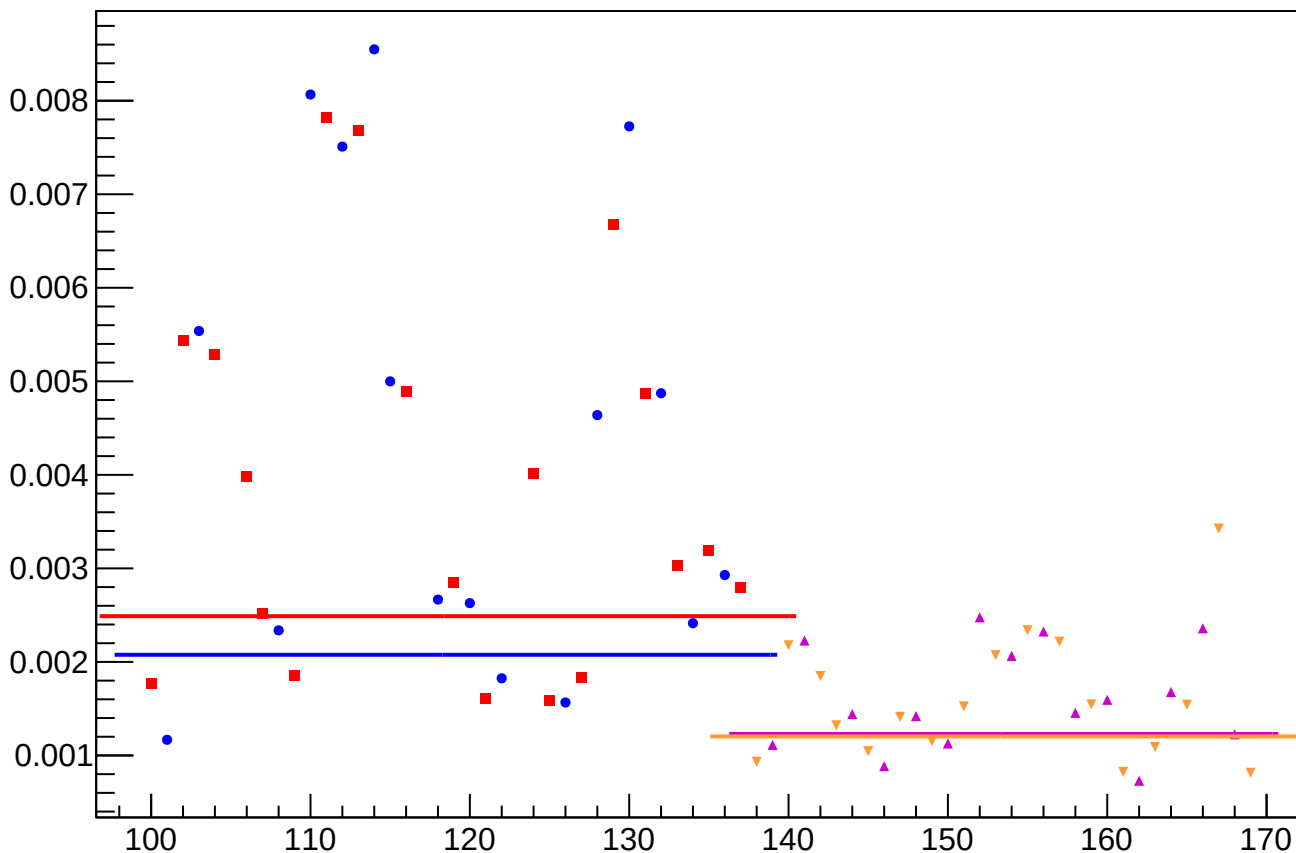
Right: -0.000 ± 0.000 χ^2/NDF : 38.4/34

In: -0.000 ± 0.000 χ^2/NDF : 32.7/30

Out: 0.000 ± 0.000 χ^2/NDF : 78.5/35

All: -0.000 ± 0.000 χ^2/NDF : 113.0/66

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3916668.9/15

Left Out: 0.001+/-0.000 χ^2/NDF :3286598.1/16

Right Out: 0.002+/-0.000 χ^2/NDF : 3092230.7/18

Left In: 0.001+/-0.000 χ^2/NDF :2956089.1/14

Left: 0.001+/-0.000 χ^2/NDF : 6247615.1/31

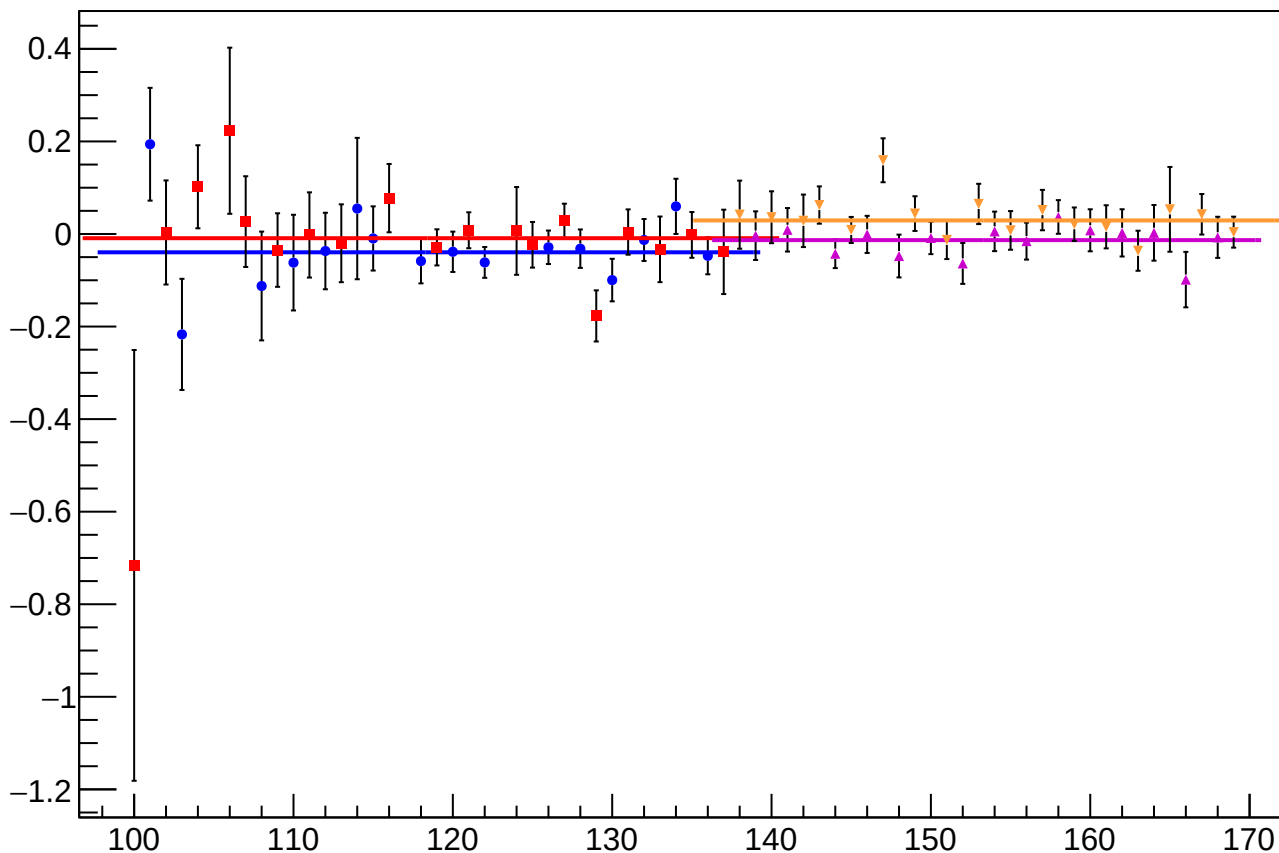
Right: 0.002+/-0.000 χ^2/NDF : 7186793.8/34

In: 0.001+/-0.000 χ^2/NDF :8342929.7/30

Out: 0.001+/-0.000 χ^2/NDF :9102713.5/35

All: 0.001+/-0.000 χ^2/NDF : 17449122.1/66

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.013 $\chi^2/\text{NDF}: 12.4/15$

Left Out: 0.029 ± 0.010 $\chi^2/\text{NDF}: 14.3/16$

Right Out: -0.009 ± 0.014 $\chi^2/\text{NDF}: 18.3/18$

Left In: -0.013 ± 0.011 $\chi^2/\text{NDF}: 7.6/14$

Left: 0.010 ± 0.008 $\chi^2/\text{NDF}: 29.8/31$

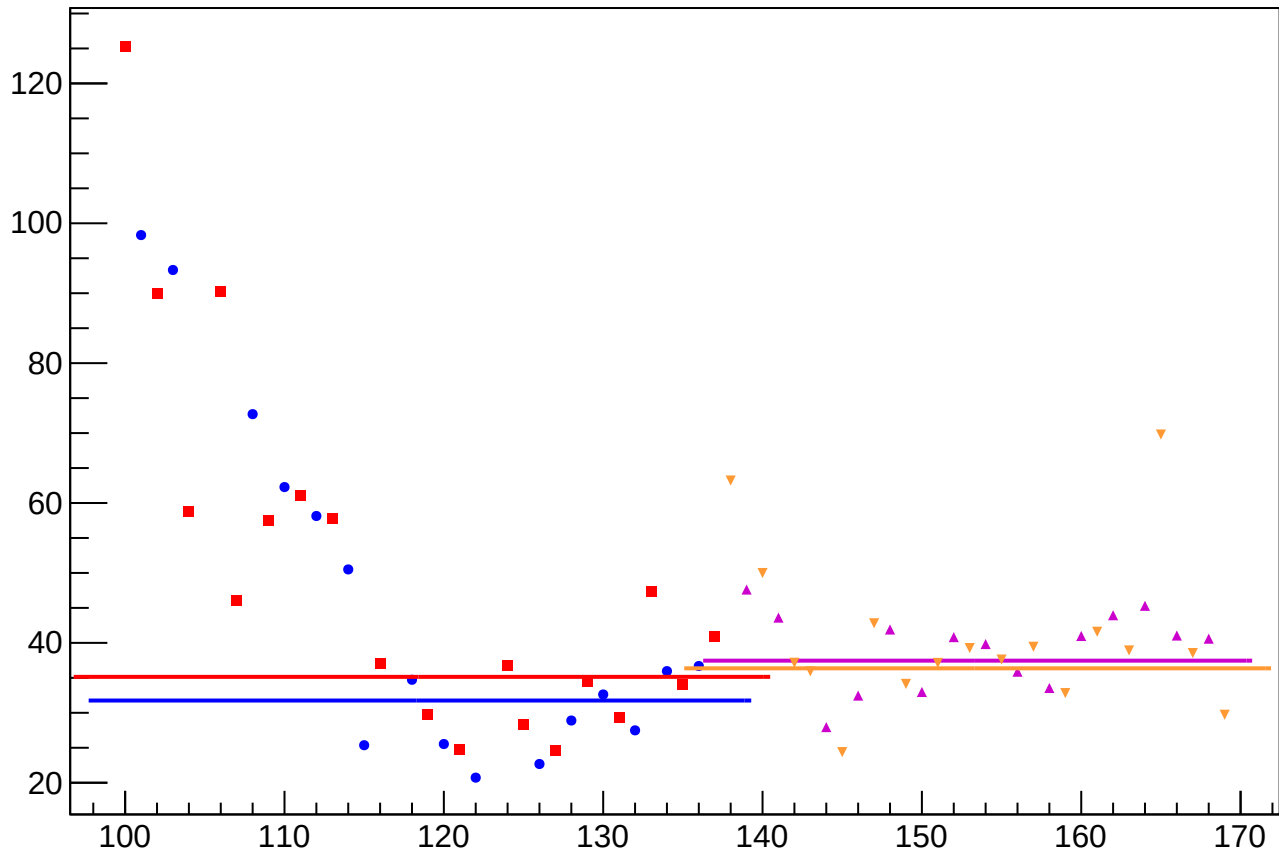
Right: -0.025 ± 0.010 $\chi^2/\text{NDF}: 33.2/34$

In: -0.024 ± 0.008 $\chi^2/\text{NDF}: 22.4/30$

Out: 0.016 ± 0.008 $\chi^2/\text{NDF}: 37.4/35$

All: -0.004 ± 0.006 $\chi^2/\text{NDF}: 71.2/66$

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 31.756+/-0.009 χ^2/NDF : 2252373.4/15

Left Out: 36.361+/-0.007 χ^2/NDF : 1214360.6/16

Right Out: 35.140+/-0.010 χ^2/NDF : 1844572.3/18

Left In: 37.457+/-0.008 χ^2/NDF : 518370.3/14

Left: 36.871+/-0.005 χ^2/NDF : 1743184.7/31

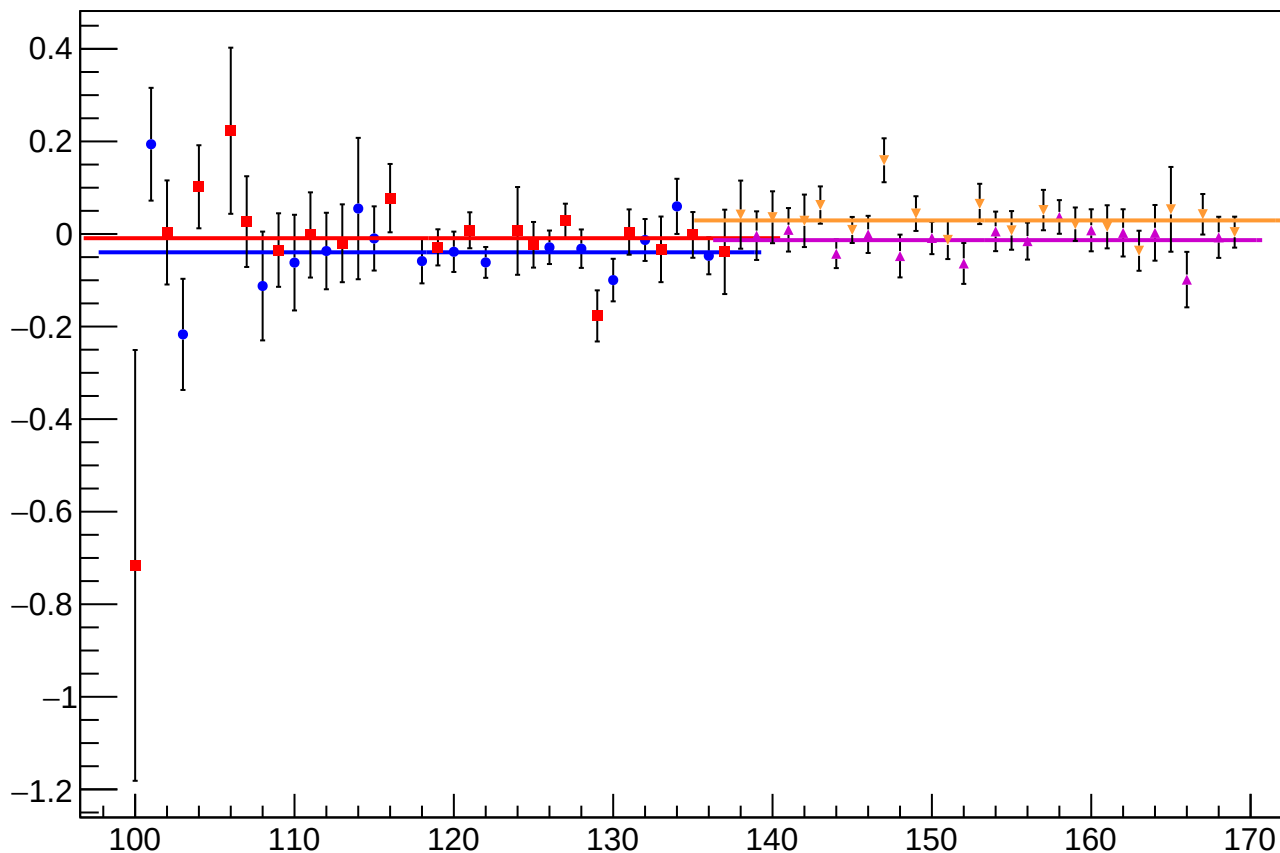
Right: 33.324+/-0.007 χ^2/NDF : 4158199.3/34

In: 35.090+/-0.006 χ^2/NDF : 2990195.7/30

Out: 35.937+/-0.006 χ^2/NDF : 3068625.0/35

All: 35.520+/-0.004 χ^2/NDF : 6068939.2/66

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.040 ± 0.013 χ^2/NDF : 12.4/15

Left Out: 0.029 ± 0.010 χ^2/NDF : 14.3/16

Right Out: -0.009 ± 0.014 χ^2/NDF : 18.3/18

Left In: -0.013 ± 0.011 χ^2/NDF : 7.6/14

Left: 0.010 ± 0.008 χ^2/NDF : 29.8/31

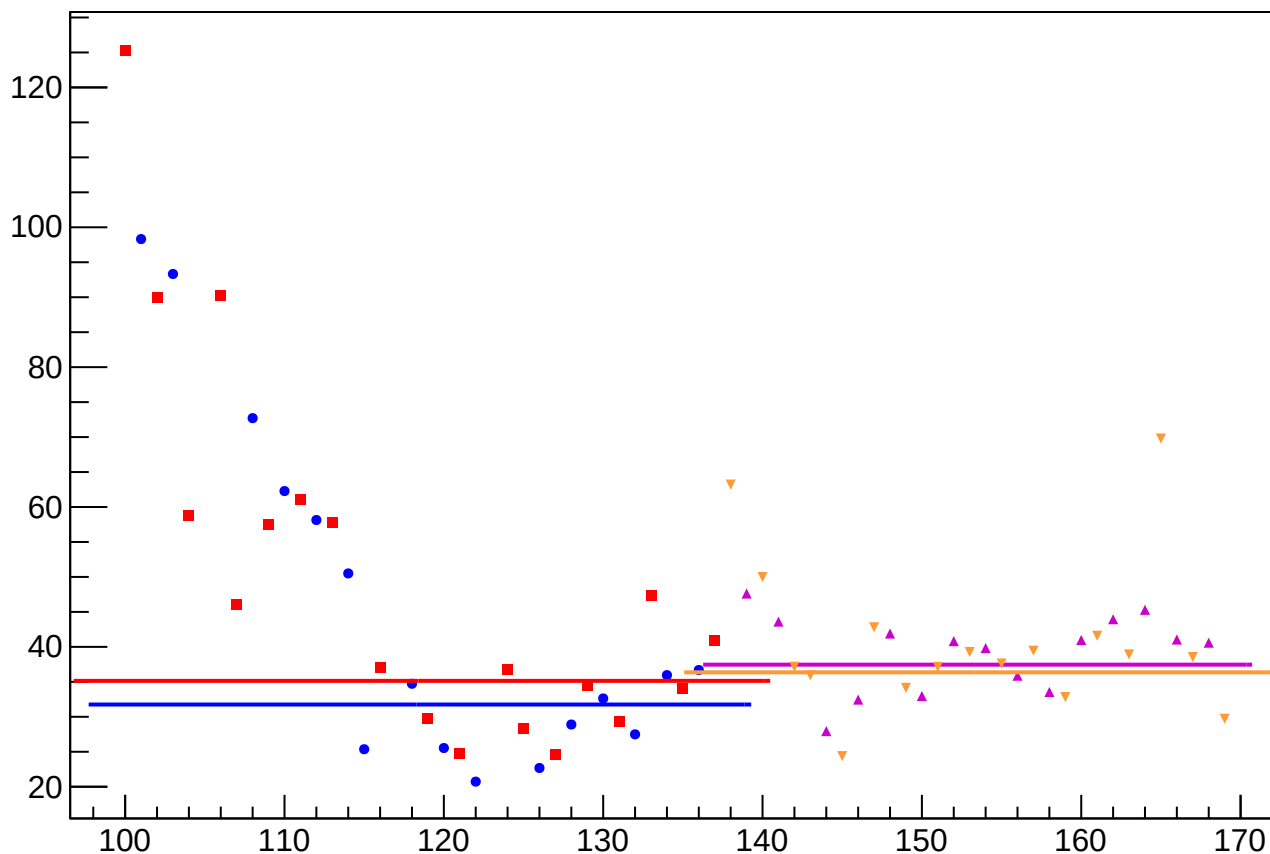
Right: -0.025 ± 0.010 χ^2/NDF : 33.2/34

In: -0.024 ± 0.008 χ^2/NDF : 22.4/30

Out: 0.016 ± 0.008 χ^2/NDF : 37.4/35

All: -0.004 ± 0.006 χ^2/NDF : 71.2/66

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 31.756+/-0.009 χ^2/NDF : 2252373.4/15

Left Out: 36.361+/-0.007 χ^2/NDF : 1214360.6/16

Right Out: 35.140+/-0.010 χ^2/NDF : 1844572.3/18

Left In: 37.457+/-0.008 χ^2/NDF : 518370.3/14

Left: 36.871+/-0.005 χ^2/NDF : 1743184.7/31

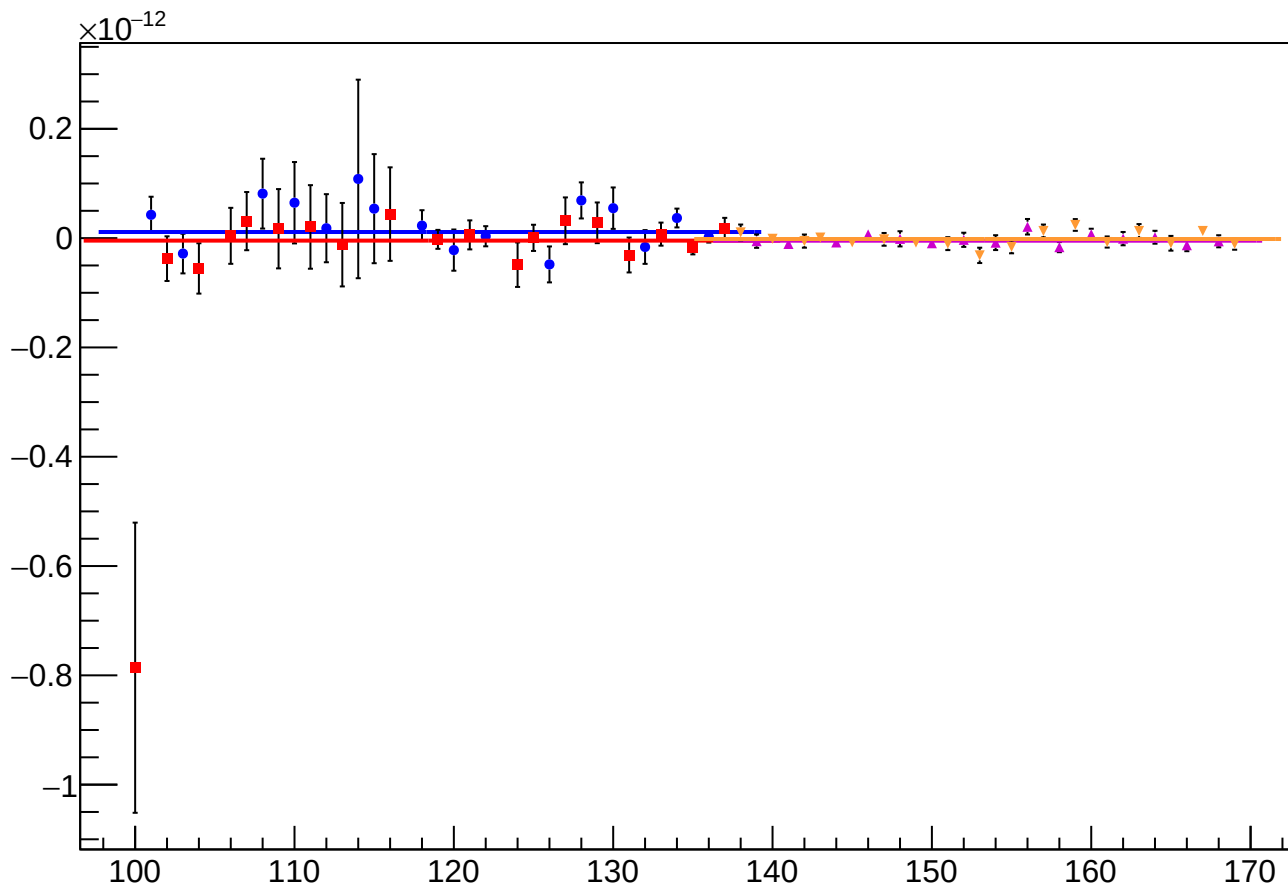
Right: 33.324+/-0.007 χ^2/NDF : 4158199.3/34

In: 35.090+/-0.006 χ^2/NDF : 2990195.7/30

Out: 35.937+/-0.006 χ^2/NDF : 3068625.0/35

All: 35.520+/-0.004 χ^2/NDF : 6068939.2/66

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 16.9/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:21.5/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 17.5/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:10.2/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 32.5/31

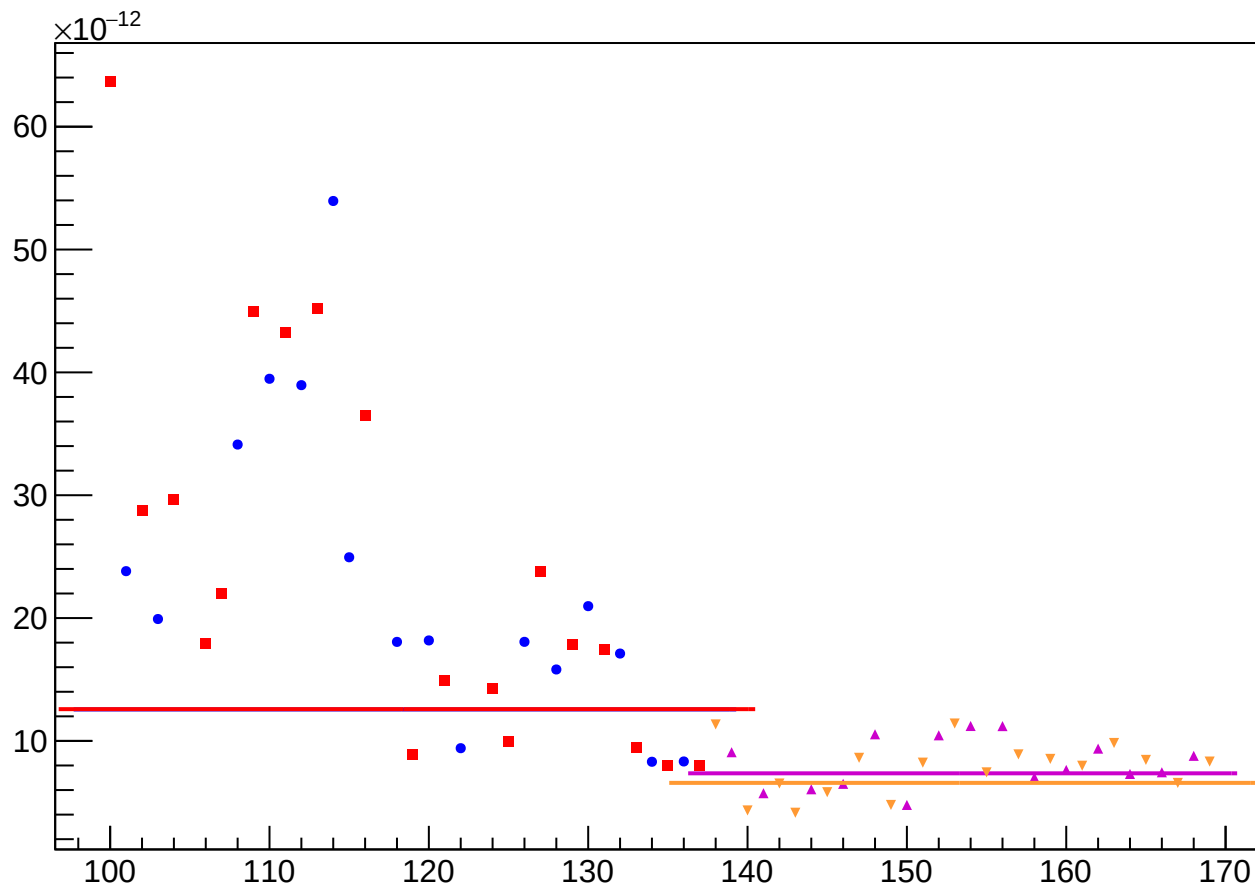
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 37.3/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:32.3/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:39.2/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 71.5/66

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2164553.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1698227.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2747891.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 1074941.7/14

Left: 0.000+/-0.000 χ^2/NDF : 2872511.1/31

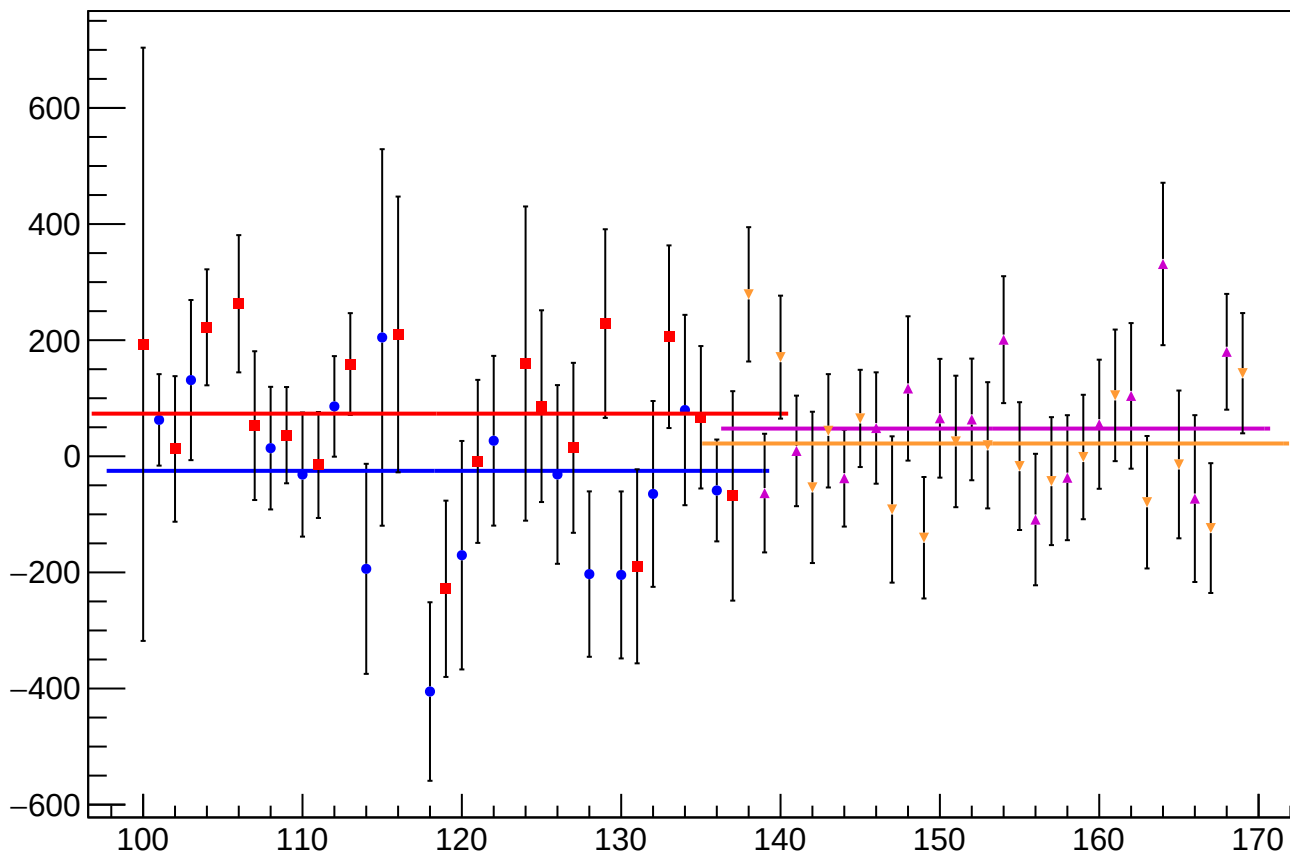
Right: 0.000+/-0.000 χ^2/NDF : 4912459.0/34

In: 0.000+/-0.000 χ^2/NDF : 4358419.7/30

Out: 0.000+/-0.000 χ^2/NDF : 5900041.2/35

All: 0.000+/-0.000 χ^2/NDF : 10397846.3/66

reg_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.072 ± 31.230 $\chi^2/\text{NDF}: 16.2/15$

Left Out: 22.031 ± 26.454 $\chi^2/\text{NDF}: 15.8/16$

Right Out: 73.458 ± 29.935 $\chi^2/\text{NDF}: 16.8/18$

Left In: 47.727 ± 27.708 $\chi^2/\text{NDF}: 14.0/14$

Left: 34.285 ± 19.134 $\chi^2/\text{NDF}: 30.2/31$

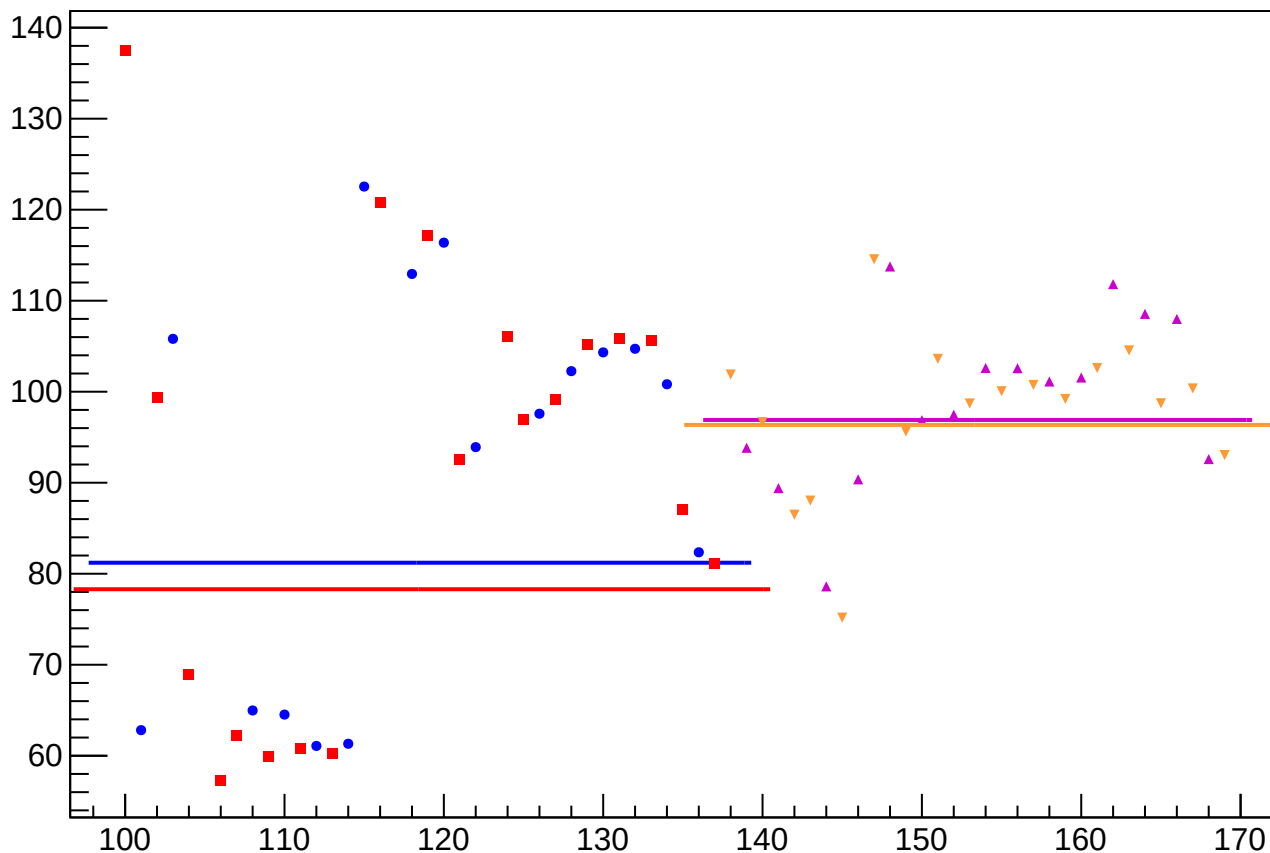
Right: 26.278 ± 21.610 $\chi^2/\text{NDF}: 38.2/34$

In: 15.662 ± 20.726 $\chi^2/\text{NDF}: 33.3/30$

Out: 44.583 ± 19.823 $\chi^2/\text{NDF}: 34.2/35$

All: 30.766 ± 14.326 $\chi^2/\text{NDF}: 68.5/66$

reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 81.210 $\pm$ 0.022 χ^2 /NDF: 787676.9/15

Left Out: 96.353 $\pm$ 0.019 χ^2 /NDF: 238049.3/16

Right Out: 78.298 $\pm$ 0.021 χ^2 /NDF: 934673.9/18

Left In: 96.896 $\pm$ 0.020 χ^2 /NDF: 231361.3/14

Left: 96.612 $\pm$ 0.014 χ^2 /NDF: 469812.7/31

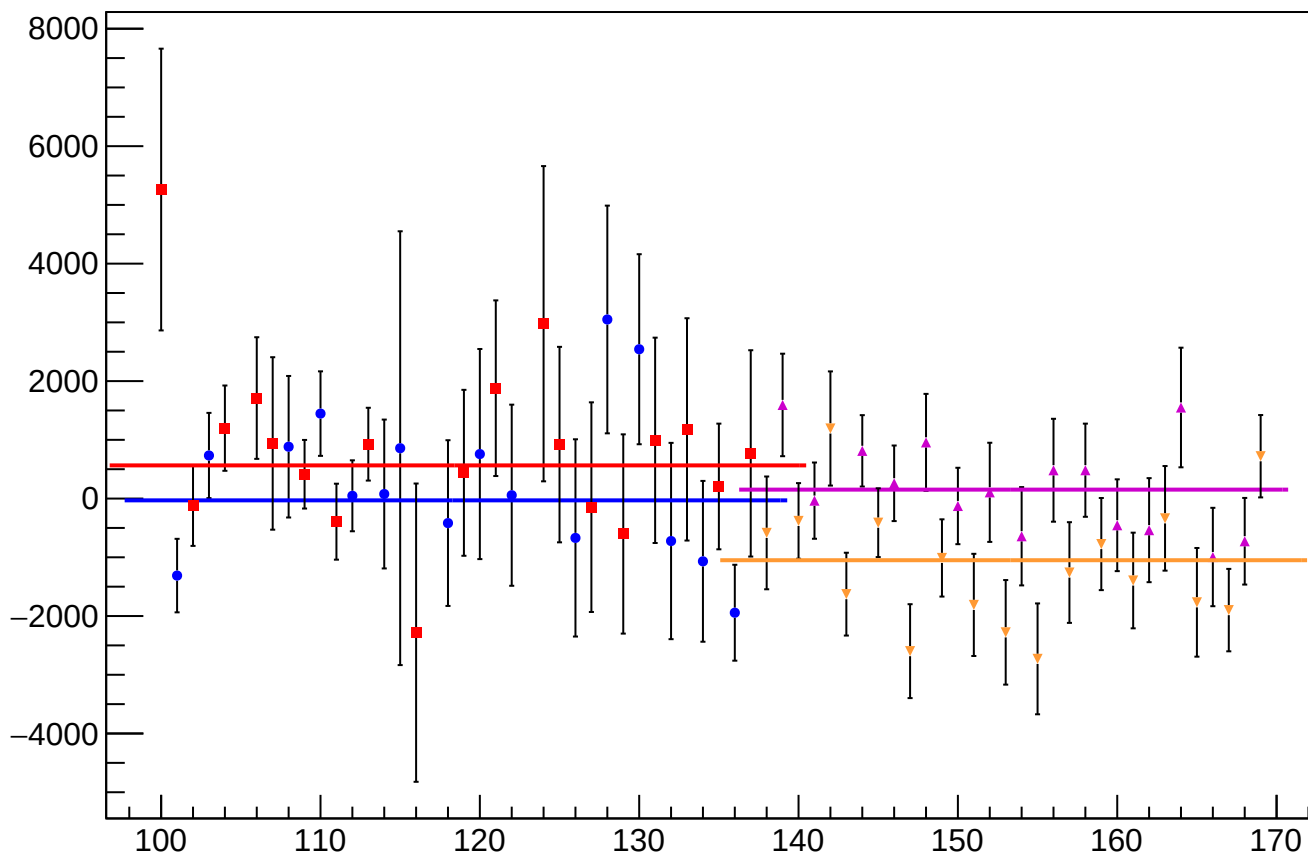
Right: 79.692 $\pm$ 0.015 χ^2 /NDF: 1731411.2/34

In: 89.987 $\pm$ 0.015 χ^2 /NDF: 1301396.9/30

Out: 88.436 $\pm$ 0.014 χ^2 /NDF: 1581257.3/35

All: 89.177 $\pm$ 0.010 χ^2 /NDF: 2888506.6/66

asym_sam_1548_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -30.407 ± 256.999 χ^2/NDF : 21.9/15

Left Out: -1049.687 ± 188.802 χ^2/NDF : 27.5/16

Right Out: 564.890 ± 238.492 χ^2/NDF : 13.3/18

Left In: 152.246 ± 198.020 χ^2/NDF : 12.8/14

Left: -477.346 ± 136.646 χ^2/NDF : 59.6/31

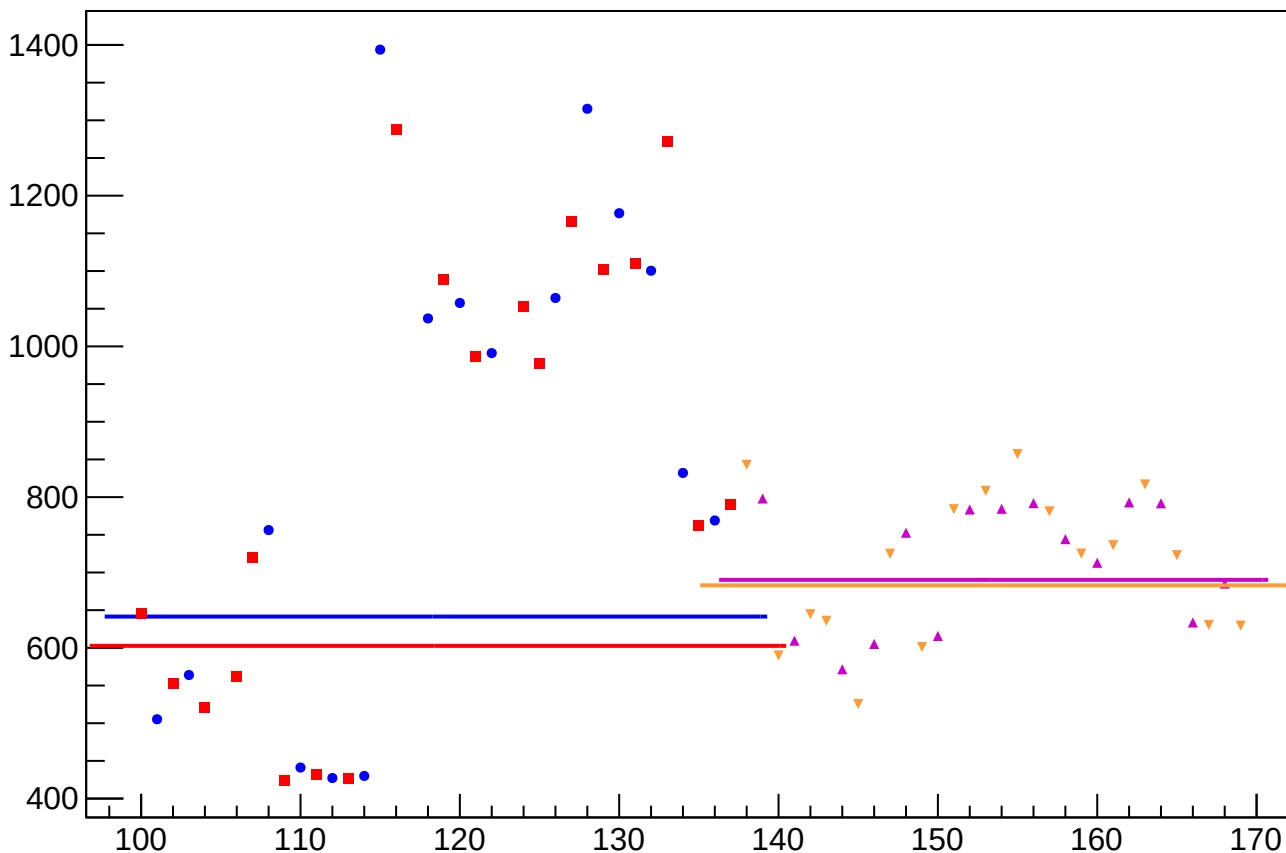
Right: 289.446 ± 174.816 χ^2/NDF : 38.1/34

In: 84.204 ± 156.858 χ^2/NDF : 35.0/30

Out: -427.652 ± 148.031 χ^2/NDF : 69.0/35

All: -186.532 ± 107.659 χ^2/NDF : 109.6/66

asym_sam_1548_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 641.499+/-0.182 χ^2/NDF : 1874990.8/15

Left Out: 682.928+/-0.134 χ^2/NDF : 537716.2/16

Right Out: 602.654+/-0.169 χ^2/NDF : 2070307.7/18

Left In: 690.231+/-0.140 χ^2/NDF : 354265.4/14

Left: 686.406+/-0.097 χ^2/NDF : 893406.6/31

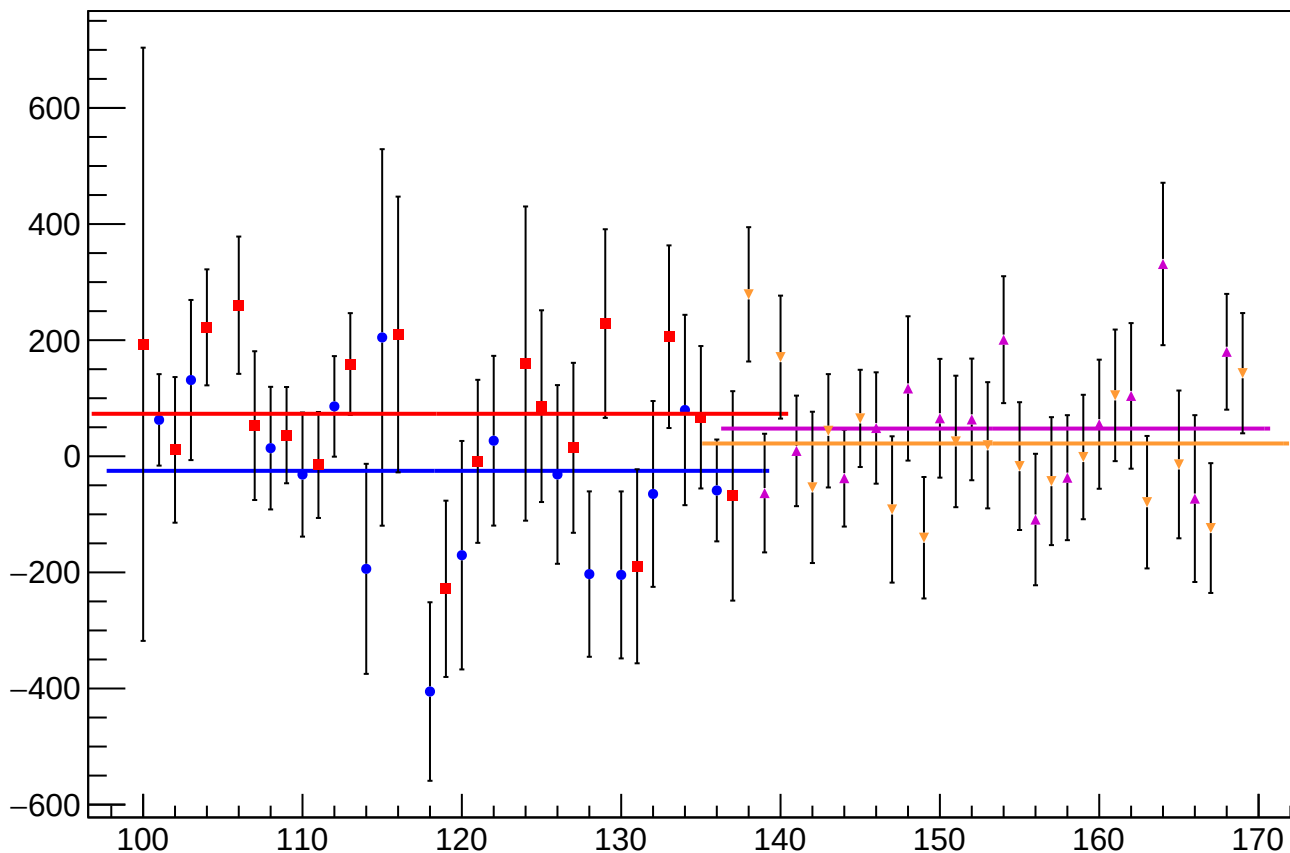
Right: 620.627+/-0.124 χ^2/NDF : 3969848.5/34

In: 672.077+/-0.111 χ^2/NDF : 2274380.0/30

Out: 652.001+/-0.105 χ^2/NDF : 2747315.5/35

All: 661.458+/-0.076 χ^2/NDF : 5039024.1/66

cor_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.075 ± 31.230 $\chi^2/\text{NDF}: 16.2/15$

Left Out: 22.035 ± 26.454 $\chi^2/\text{NDF}: 15.8/16$

Right Out: 73.193 ± 29.937 $\chi^2/\text{NDF}: 16.7/18$

Left In: 47.726 ± 27.708 $\chi^2/\text{NDF}: 14.0/14$

Left: 34.286 ± 19.134 $\chi^2/\text{NDF}: 30.2/31$

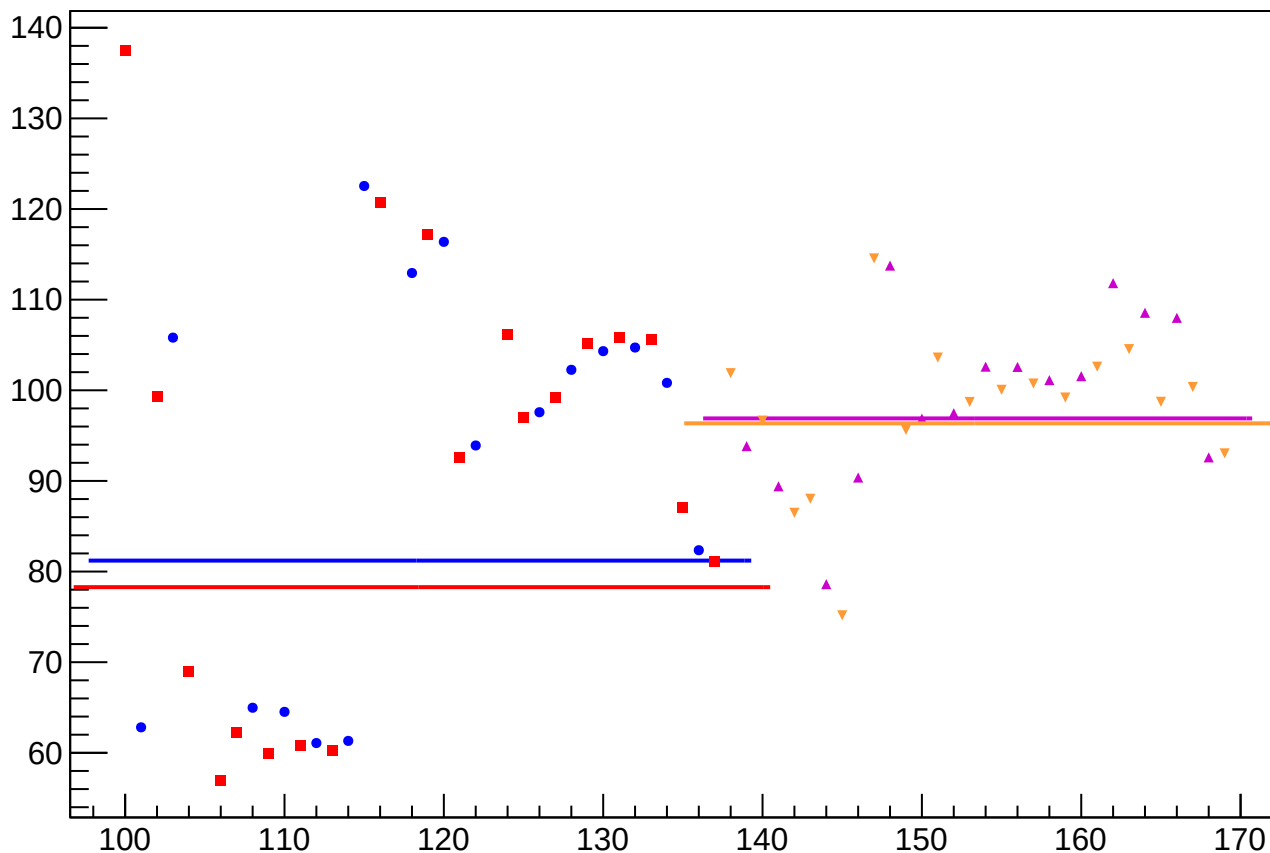
Right: 26.135 ± 21.611 $\chi^2/\text{NDF}: 38.1/34$

In: 15.661 ± 20.726 $\chi^2/\text{NDF}: 33.3/30$

Out: 44.467 ± 19.823 $\chi^2/\text{NDF}: 34.1/35$

All: 30.705 ± 14.326 $\chi^2/\text{NDF}: 68.4/66$

cor_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 81.210 $\pm$ 0.022 χ^2/NDF : 787679.3/15

Left Out: 96.353 $\pm$ 0.019 χ^2/NDF : 238049.3/16

Right Out: 78.279 $\pm$ 0.021 χ^2/NDF : 936812.2/18

Left In: 96.896 $\pm$ 0.020 χ^2/NDF : 231361.3/14

Left: 96.612 $\pm$ 0.014 χ^2/NDF : 469812.7/31

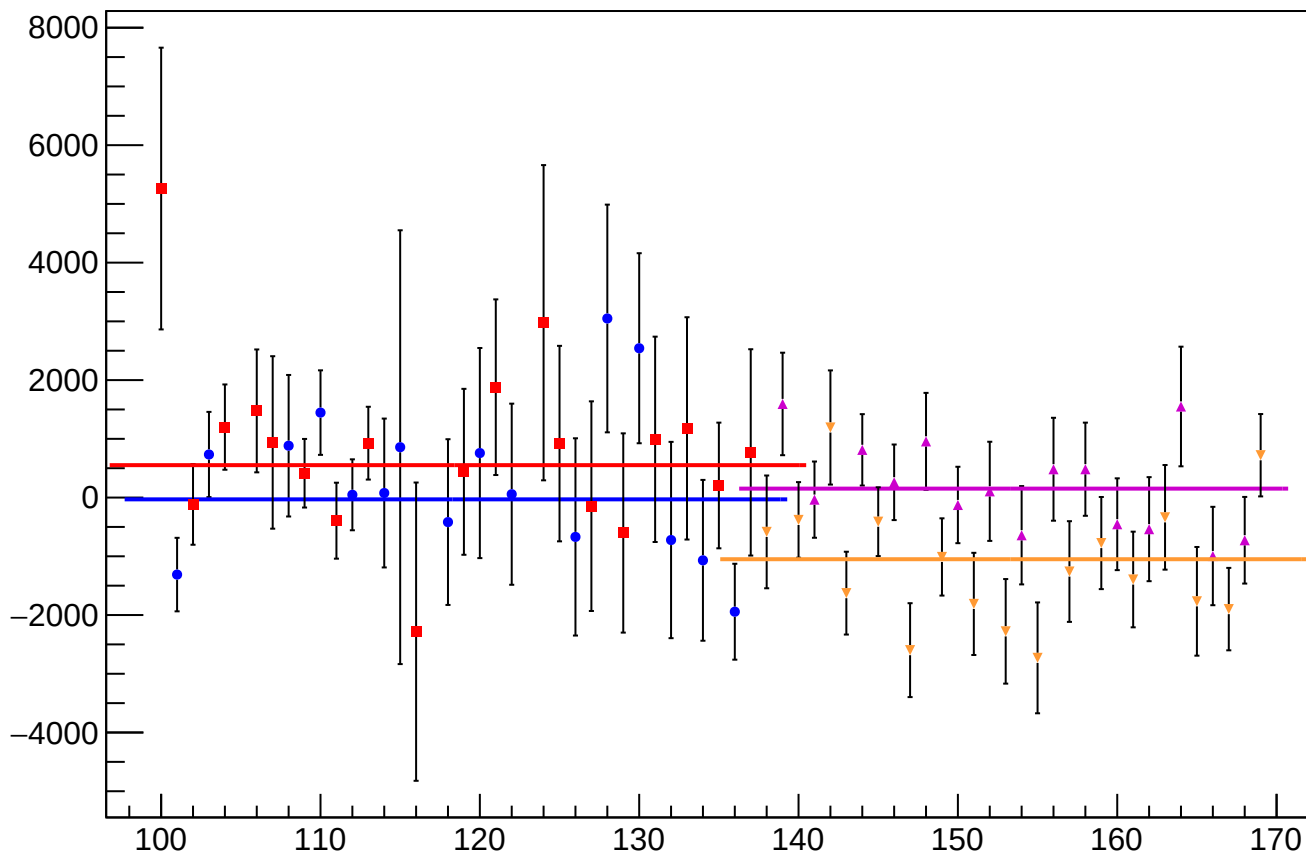
Right: 79.683 $\pm$ 0.015 χ^2/NDF : 1733667.8/34

In: 89.987 $\pm$ 0.015 χ^2/NDF : 1301398.6/30

Out: 88.428 $\pm$ 0.014 χ^2/NDF : 1584211.6/35

All: 89.173 $\pm$ 0.010 χ^2/NDF : 2891520.2/66

asym_sam_1548_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -30.434 ± 257.002 χ^2/NDF : 21.9/15

Left Out: -1049.682 ± 188.802 χ^2/NDF : 27.5/16

Right Out: 551.948 ± 238.640 χ^2/NDF : 12.8/18

Left In: 152.253 ± 198.020 χ^2/NDF : 12.8/14

Left: -477.341 ± 136.646 χ^2/NDF : 59.6/31

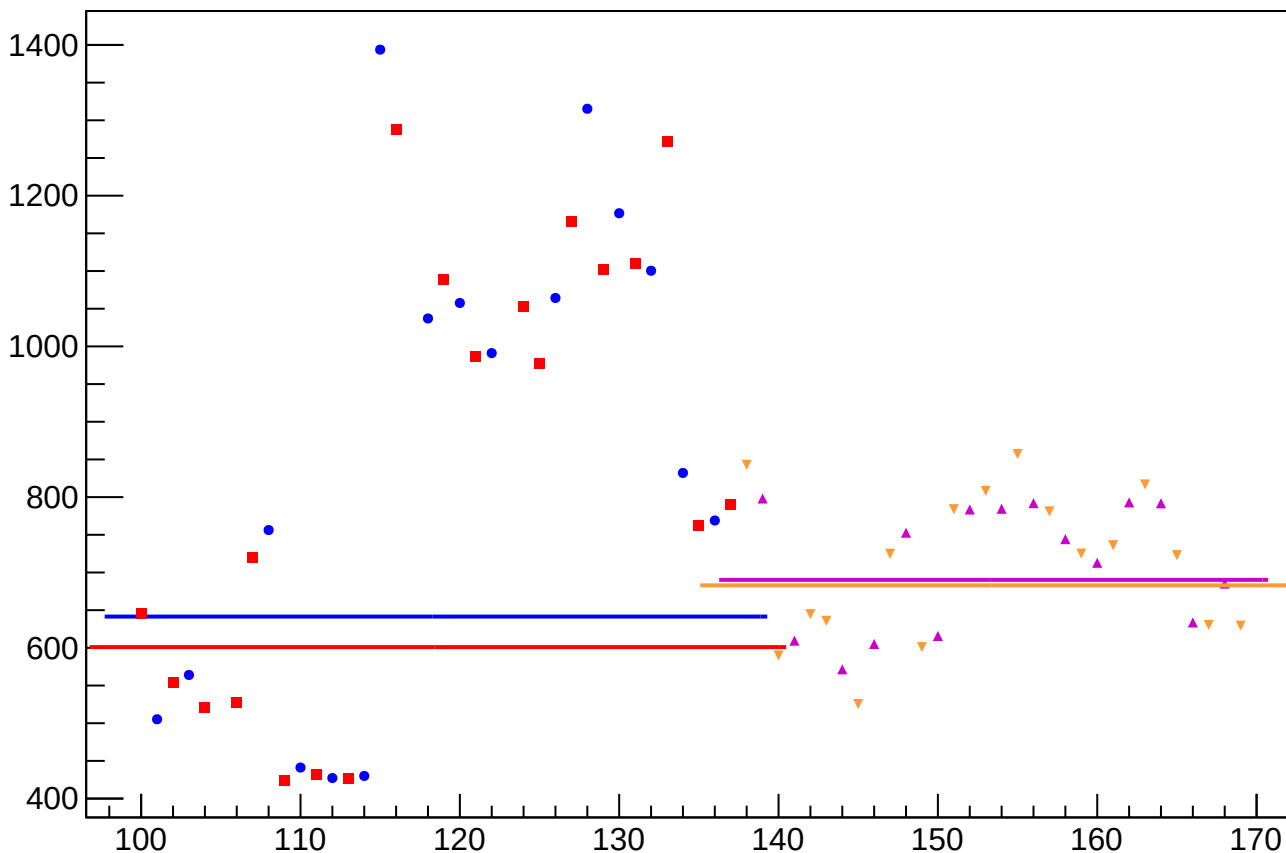
Right: 282.303 ± 174.876 χ^2/NDF : 37.4/34

In: 84.199 ± 156.859 χ^2/NDF : 35.0/30

Out: -433.106 ± 148.066 χ^2/NDF : 68.1/35

All: -189.359 ± 107.673 χ^2/NDF : 108.8/66

asym_sam_1548_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 641.507+/-0.182 χ^2/NDF : 1874950.0/15

Left Out: 682.928+/-0.134 χ^2/NDF : 537717.0/16

Right Out: 600.975+/-0.169 χ^2/NDF : 2077232.5/18

Left In: 690.231+/-0.140 χ^2/NDF : 354264.0/14

Left: 686.406+/-0.097 χ^2/NDF : 893406.1/31

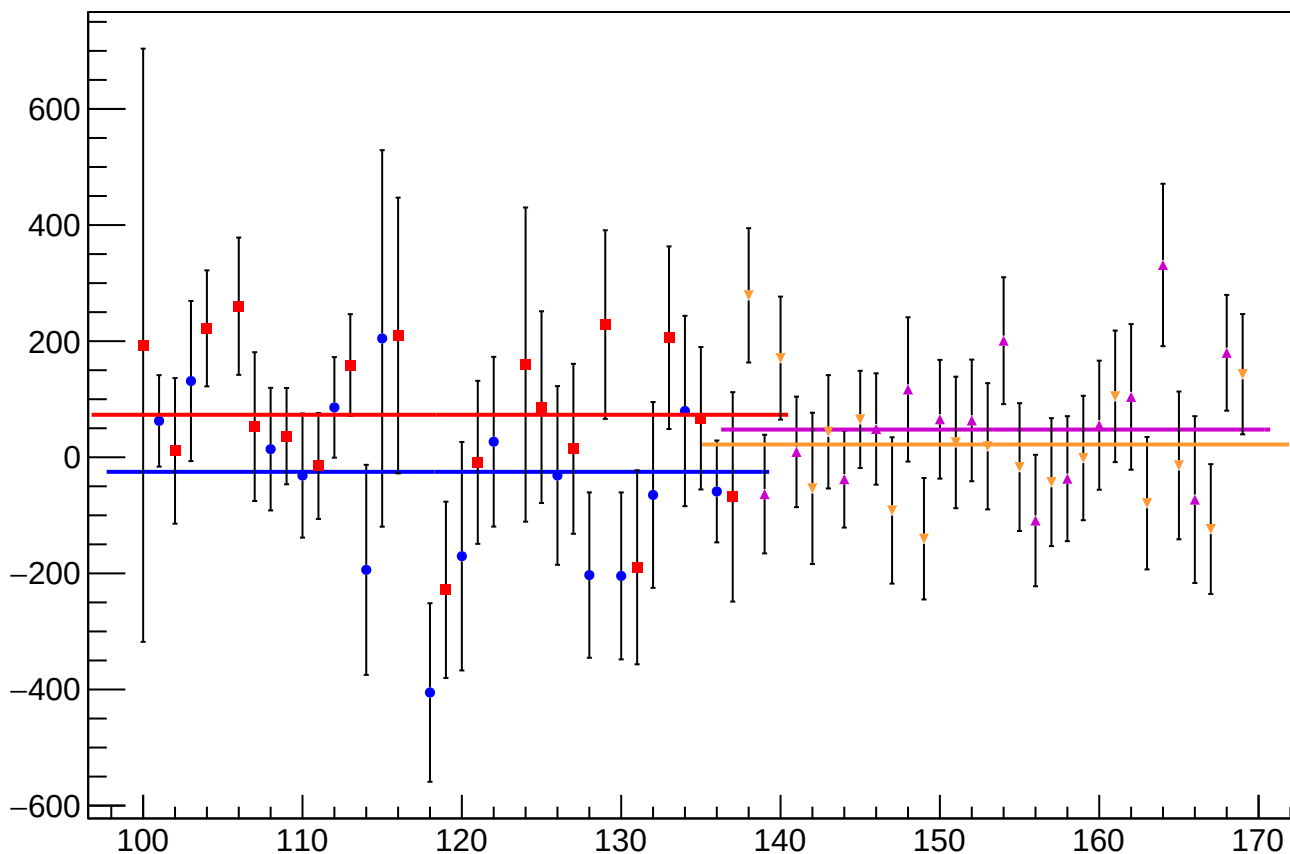
Right: 619.742+/-0.124 χ^2/NDF : 3978895.7/34

In: 672.081+/-0.111 χ^2/NDF : 2274320.9/30

Out: 651.379+/-0.105 χ^2/NDF : 2760015.4/35

All: 661.133+/-0.076 χ^2/NDF : 5052758.4/66

eigen_cor_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -25.075 ± 31.230 $\chi^2/\text{NDF}: 16.2/15$

Left Out: 22.035 ± 26.454 $\chi^2/\text{NDF}: 15.8/16$

Right Out: 73.193 ± 29.937 $\chi^2/\text{NDF}: 16.7/18$

Left In: 47.726 ± 27.708 $\chi^2/\text{NDF}: 14.0/14$

Left: 34.286 ± 19.134 $\chi^2/\text{NDF}: 30.2/31$

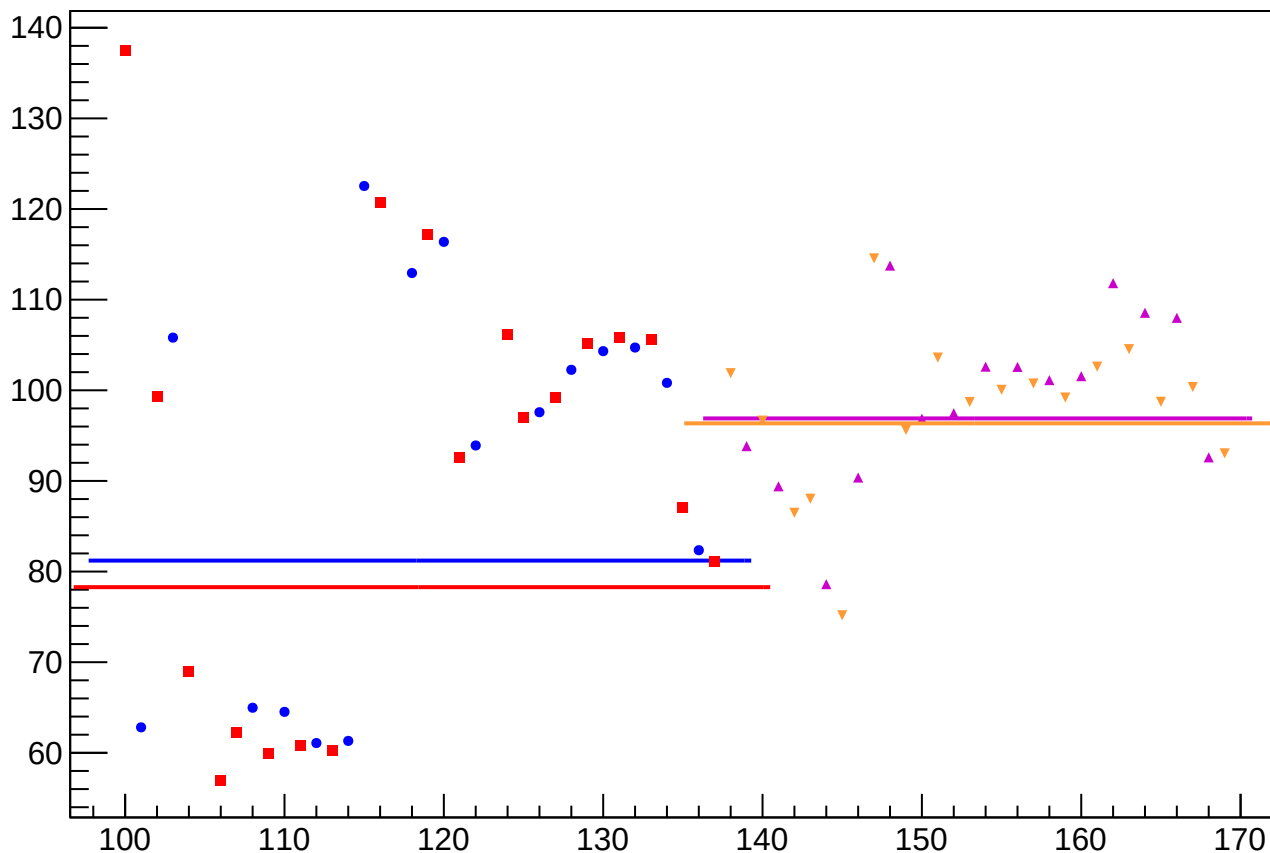
Right: 26.135 ± 21.611 $\chi^2/\text{NDF}: 38.1/34$

In: 15.661 ± 20.726 $\chi^2/\text{NDF}: 33.3/30$

Out: 44.467 ± 19.823 $\chi^2/\text{NDF}: 34.1/35$

All: 30.705 ± 14.326 $\chi^2/\text{NDF}: 68.4/66$

eigen_cor_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 81.210 $\pm$ 0.022 χ^2 /NDF: 787679.3/15

Left Out: 96.353 $\pm$ 0.019 χ^2 /NDF: 238049.3/16

Right Out: 78.279 $\pm$ 0.021 χ^2 /NDF: 936812.2/18

Left In: 96.896 $\pm$ 0.020 χ^2 /NDF: 231361.3/14

Left: 96.612 $\pm$ 0.014 χ^2 /NDF: 469812.7/31

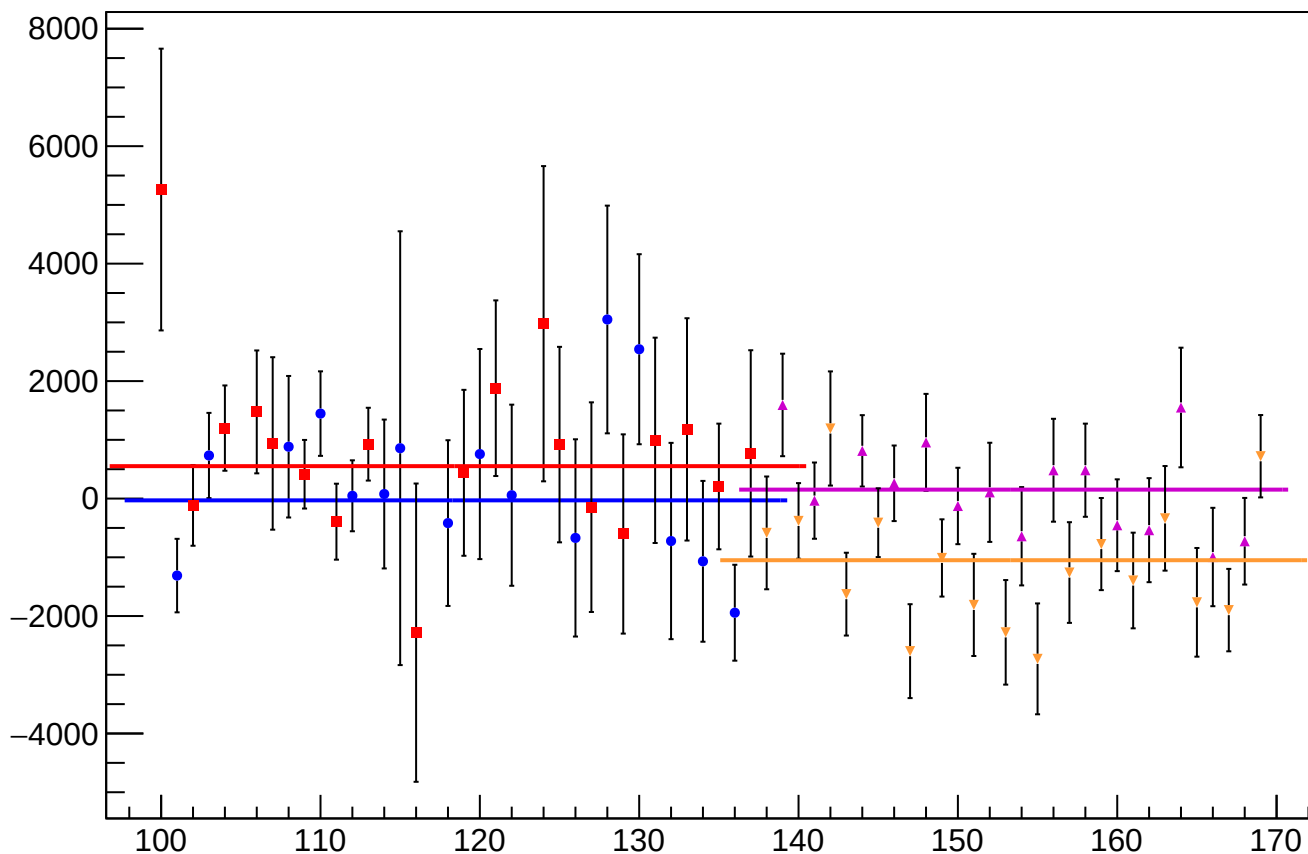
Right: 79.683 $\pm$ 0.015 χ^2 /NDF: 1733667.8/34

In: 89.987 $\pm$ 0.015 χ^2 /NDF: 1301398.6/30

Out: 88.428 $\pm$ 0.014 χ^2 /NDF: 1584211.6/35

All: 89.173 $\pm$ 0.010 χ^2 /NDF: 2891520.2/66

asym_sam_1548_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -30.434 ± 257.002 χ^2/NDF : 21.9/15

Left Out: -1049.682 ± 188.802 χ^2/NDF : 27.5/16

Right Out: 551.948 ± 238.640 χ^2/NDF : 12.8/18

Left In: 152.253 ± 198.020 χ^2/NDF : 12.8/14

Left: -477.341 ± 136.646 χ^2/NDF : 59.6/31

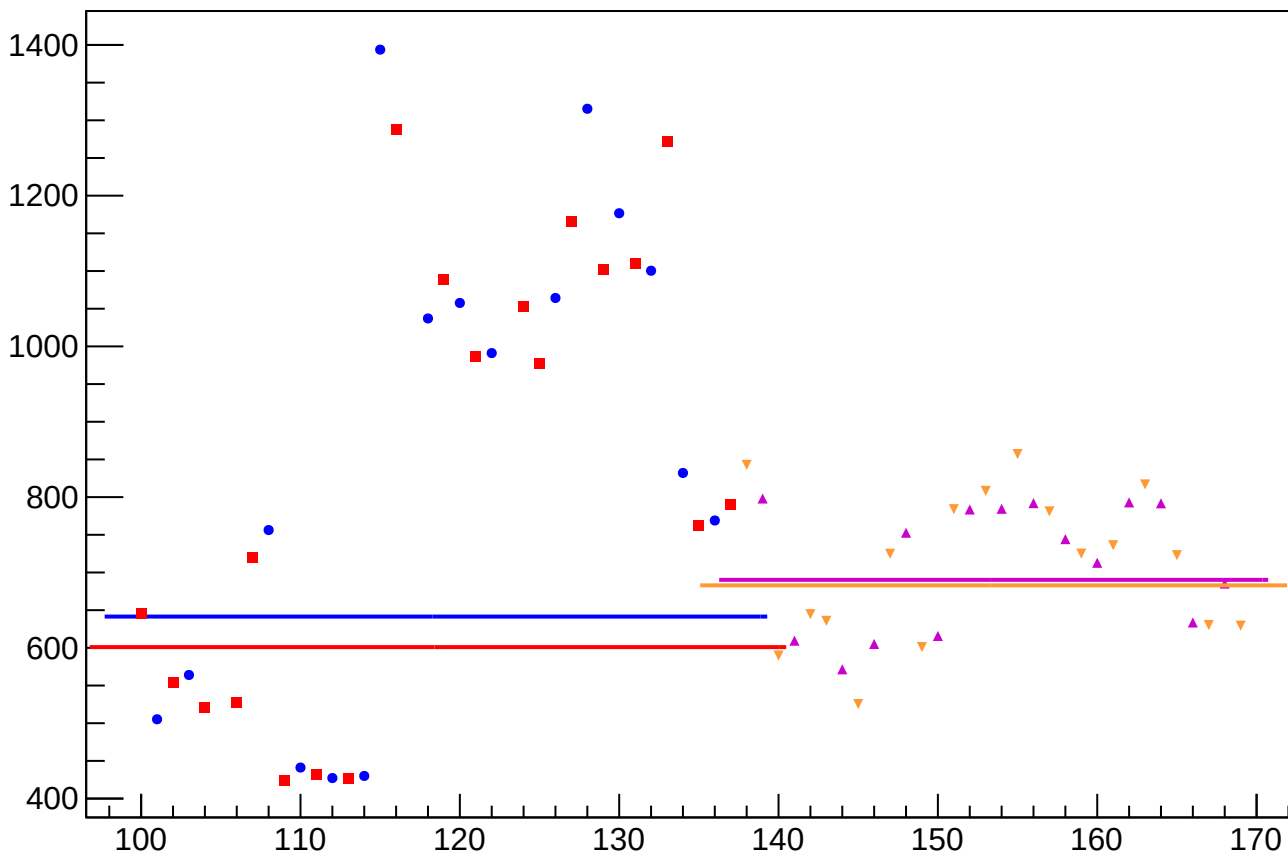
Right: 282.303 ± 174.876 χ^2/NDF : 37.4/34

In: 84.199 ± 156.859 χ^2/NDF : 35.0/30

Out: -433.106 ± 148.066 χ^2/NDF : 68.1/35

All: -189.359 ± 107.673 χ^2/NDF : 108.8/66

asym_sam_1548_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 641.507+/-0.182 χ^2/NDF : 1874950.0/15

Left Out: 682.928+/-0.134 χ^2/NDF : 537717.0/16

Right Out: 600.975+/-0.169 χ^2/NDF : 2077232.5/18

Left In: 690.231+/-0.140 χ^2/NDF : 354264.0/14

Left: 686.406+/-0.097 χ^2/NDF : 893406.1/31

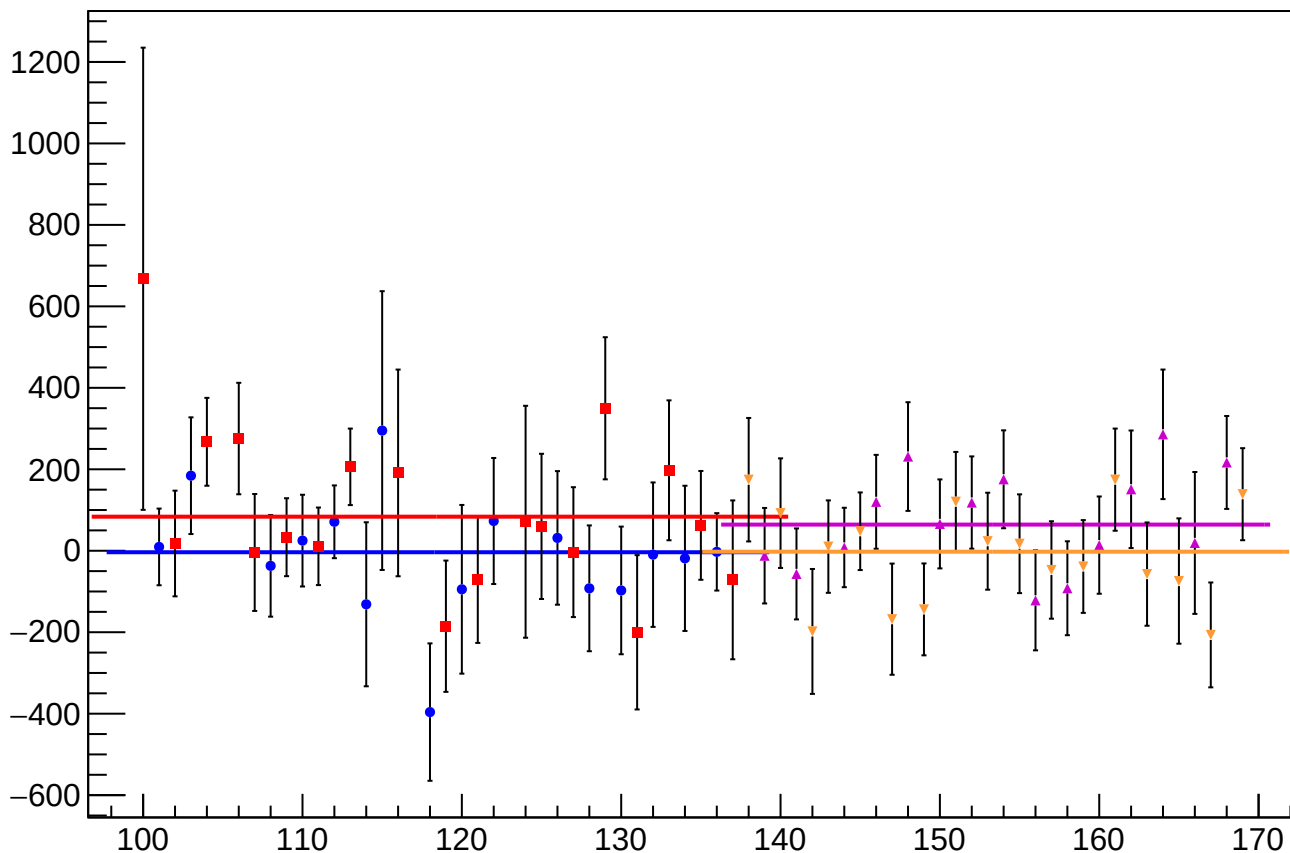
Right: 619.742+/-0.124 χ^2/NDF : 3978895.7/34

In: 672.081+/-0.111 χ^2/NDF : 2274320.9/30

Out: 651.379+/-0.105 χ^2/NDF : 2760015.4/35

All: 661.133+/-0.076 χ^2/NDF : 5052758.4/66

dit_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -3.635 ± 34.152 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -2.313 ± 29.872 $\chi^2/\text{NDF}: 14.6/16$

Right Out: 83.676 ± 32.633 $\chi^2/\text{NDF}: 19.1/18$

Left In: 64.241 ± 31.164 $\chi^2/\text{NDF}: 13.3/14$

Left: 29.555 ± 21.565 $\chi^2/\text{NDF}: 30.3/31$

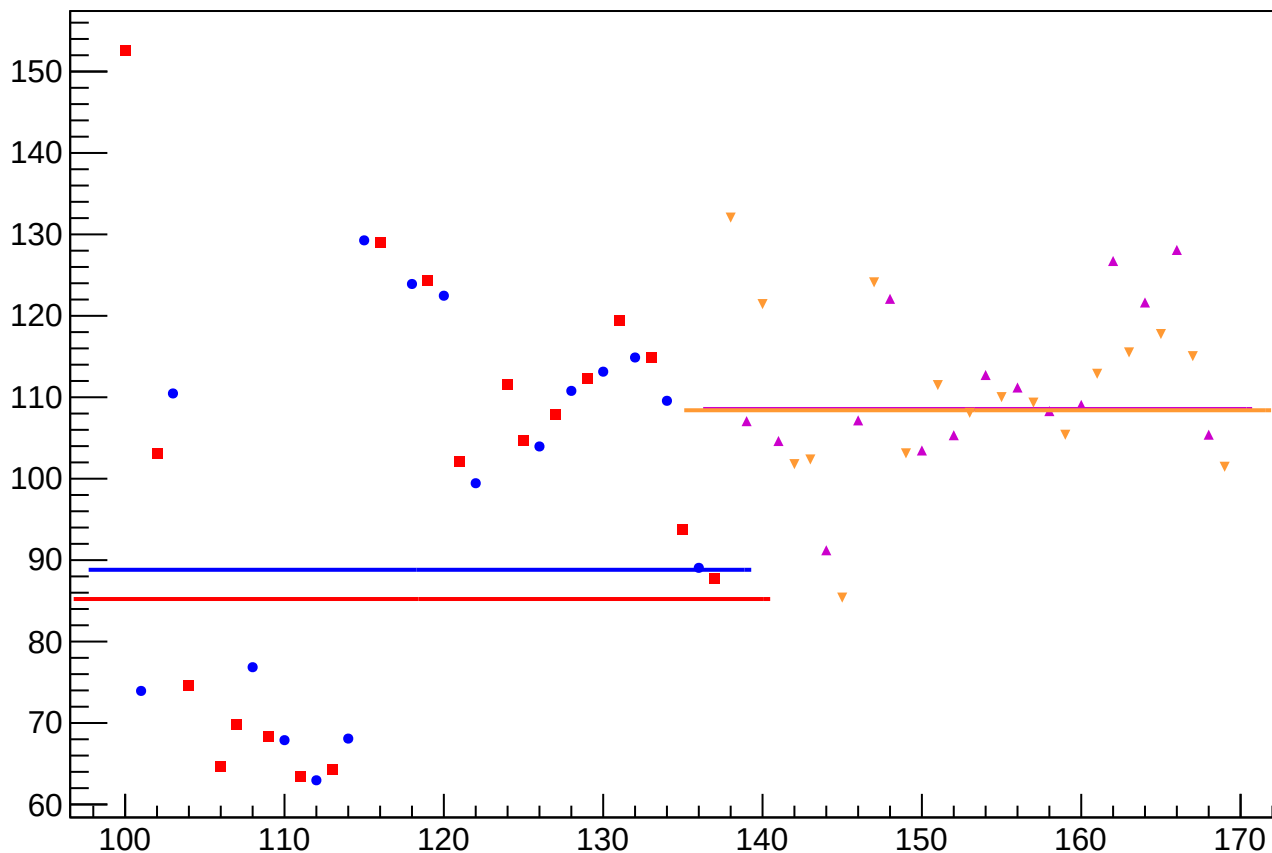
Right: 42.007 ± 23.594 $\chi^2/\text{NDF}: 32.8/34$

In: 33.402 ± 23.020 $\chi^2/\text{NDF}: 25.8/30$

Out: 36.891 ± 22.034 $\chi^2/\text{NDF}: 37.5/35$

All: 35.223 ± 15.918 $\chi^2/\text{NDF}: 63.3/66$

dit_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 88.813 $\pm$ 0.024 χ^2 /NDF: 724609.8/15

Left Out: 108.403 $\pm$ 0.021 χ^2 /NDF: 256665.6/16

Right Out: 85.225 $\pm$ 0.023 χ^2 /NDF: 884071.4/18

Left In: 108.560 $\pm$ 0.022 χ^2 /NDF: 168290.0/14

Left: 108.478 $\pm$ 0.015 χ^2 /NDF: 424982.1/31

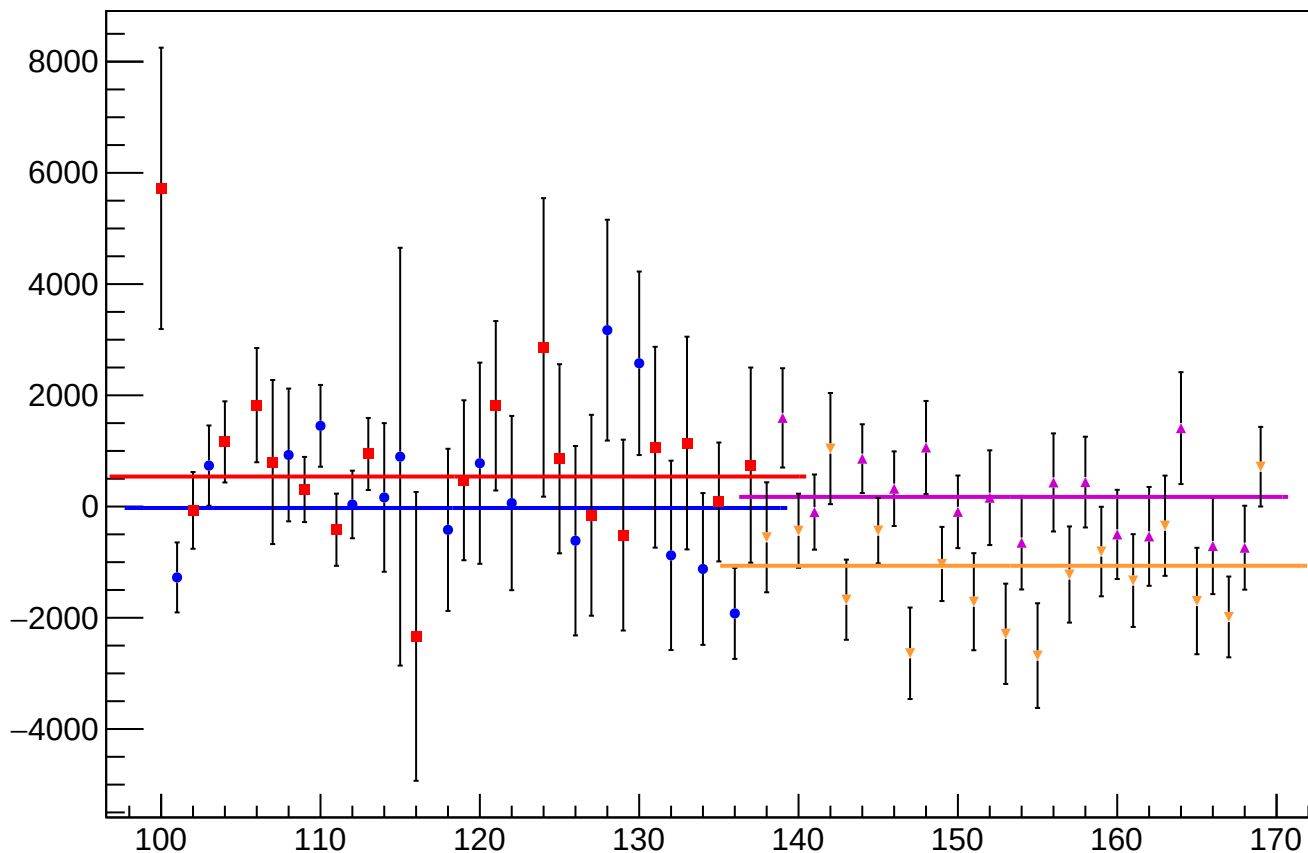
Right: 86.937 $\pm$ 0.017 χ^2 /NDF: 1620225.0/34

In: 99.588 $\pm$ 0.016 χ^2 /NDF: 1257743.0/30

Out: 97.836 $\pm$ 0.016 χ^2 /NDF: 1689728.6/35

All: 98.674 $\pm$ 0.011 χ^2 /NDF: 2953521.7/66

asym_sam_1548_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -25.770 ± 259.401 χ^2/NDF : 21.6/15

Left Out: -1064.783 ± 192.528 χ^2/NDF : 25.6/16

Right Out: 539.635 ± 241.238 χ^2/NDF : 13.6/18

Left In: 173.335 ± 201.887 χ^2/NDF : 11.8/14

Left: -475.085 ± 139.329 χ^2/NDF : 57.1/31

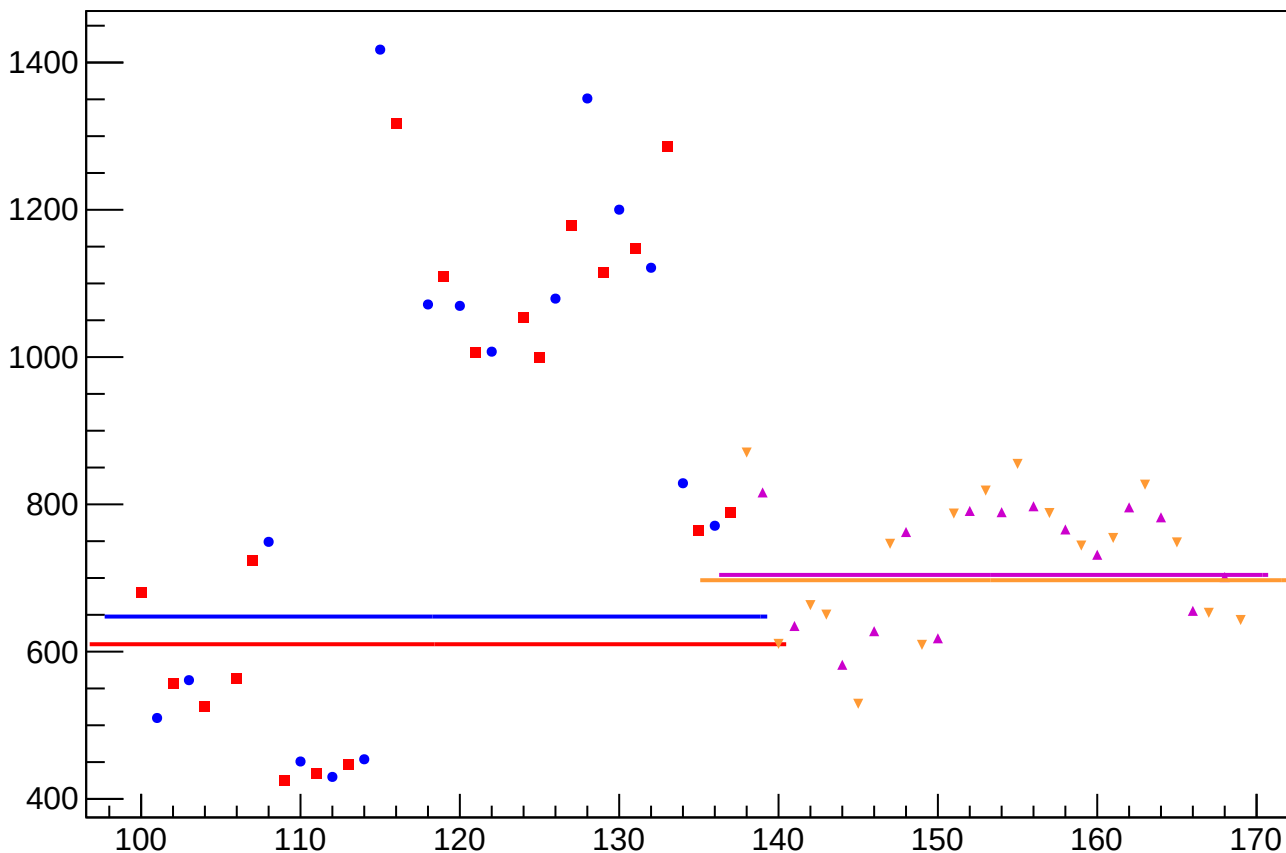
Right: 277.418 ± 176.654 χ^2/NDF : 37.7/34

In: 98.227 ± 159.321 χ^2/NDF : 33.7/30

Out: -440.500 ± 150.480 χ^2/NDF : 66.2/35

All: -186.498 ± 109.397 χ^2/NDF : 106.0/66

asym_sam_1548_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 647.641 $\pm$ 0.183 χ^2 /NDF: 1887815.9/15

Left Out: 696.989 $\pm$ 0.136 χ^2 /NDF: 529055.7/16

Right Out: 610.061 $\pm$ 0.171 χ^2 /NDF: 2074248.2/18

Left In: 704.200 $\pm$ 0.143 χ^2 /NDF: 318019.8/14

Left: 700.424 $\pm$ 0.099 χ^2 /NDF: 848411.5/31

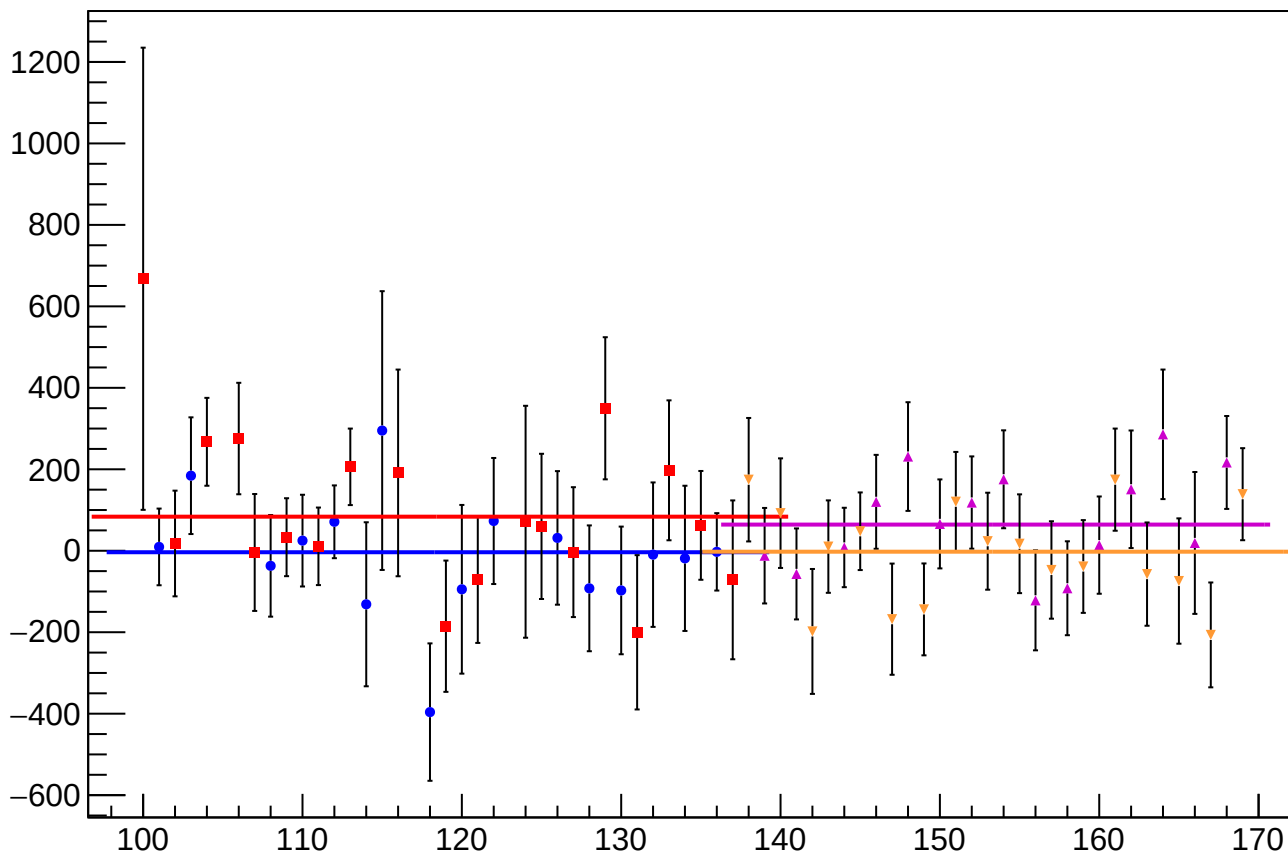
Right: 627.489 $\pm$ 0.125 χ^2 /NDF: 3984572.9/34

In: 682.864 $\pm$ 0.113 χ^2 /NDF: 2265049.2/30

Out: 663.165 $\pm$ 0.106 χ^2 /NDF: 2761951.5/35

All: 672.453 $\pm$ 0.077 χ^2 /NDF: 5043160.2/66

eigen_dit_asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: -3.633 ± 34.152 $\chi^2/\text{NDF}: 10.3/15$

Left Out: -2.311 ± 29.872 $\chi^2/\text{NDF}: 14.6/16$

Right Out: 83.676 ± 32.633 $\chi^2/\text{NDF}: 19.1/18$

Left In: 64.241 ± 31.164 $\chi^2/\text{NDF}: 13.3/14$

Left: 29.557 ± 21.565 $\chi^2/\text{NDF}: 30.3/31$

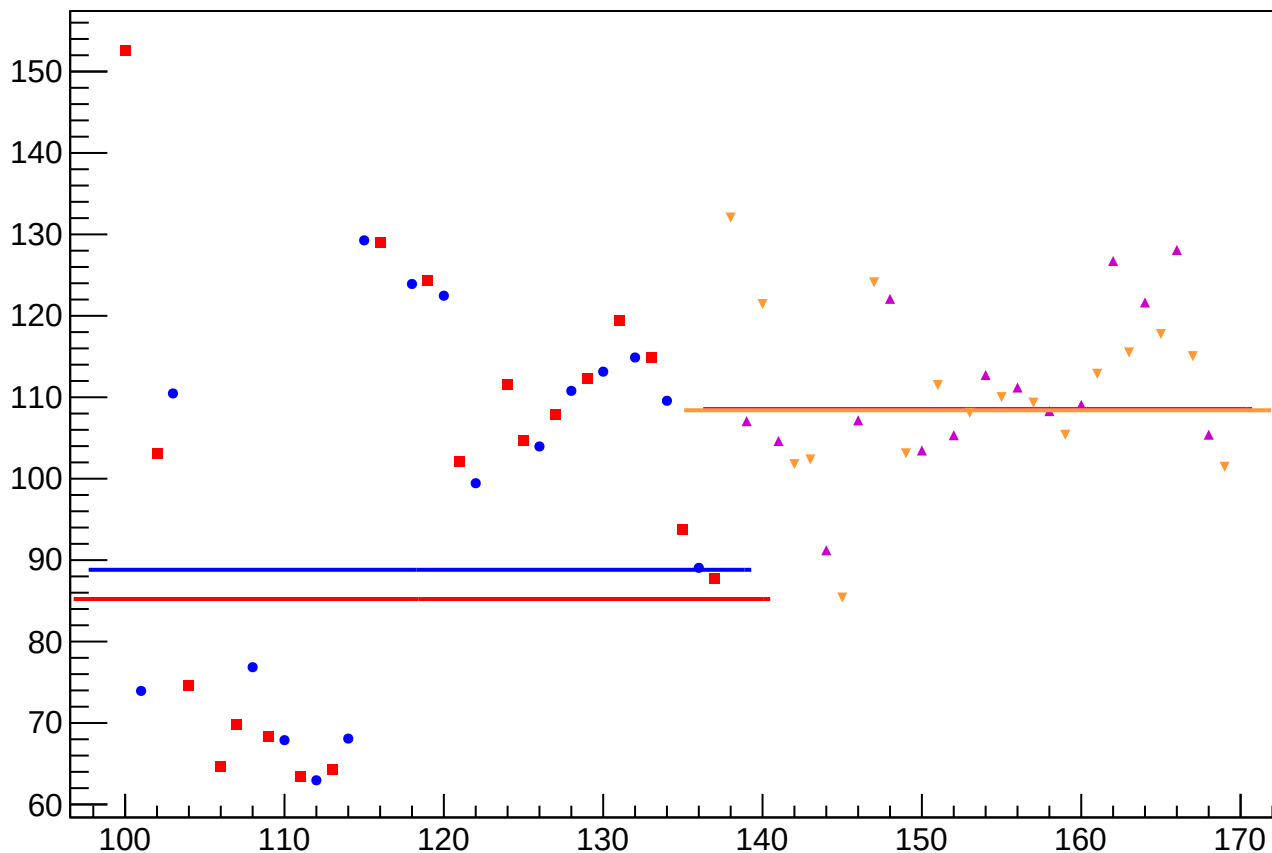
Right: 42.007 ± 23.594 $\chi^2/\text{NDF}: 32.8/34$

In: 33.403 ± 23.020 $\chi^2/\text{NDF}: 25.8/30$

Out: 36.891 ± 22.034 $\chi^2/\text{NDF}: 37.5/35$

All: 35.224 ± 15.918 $\chi^2/\text{NDF}: 63.3/66$

eigen_dit_asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 88.813+/-0.024 χ^2/NDF : 724609.7/15

Left Out: 108.403+/-0.021 χ^2/NDF : 256663.9/16

Right Out: 85.225+/-0.023 χ^2/NDF : 884073.3/18

Left In: 108.560+/-0.022 χ^2/NDF : 168288.3/14

Left: 108.479+/-0.015 χ^2/NDF : 424978.6/31

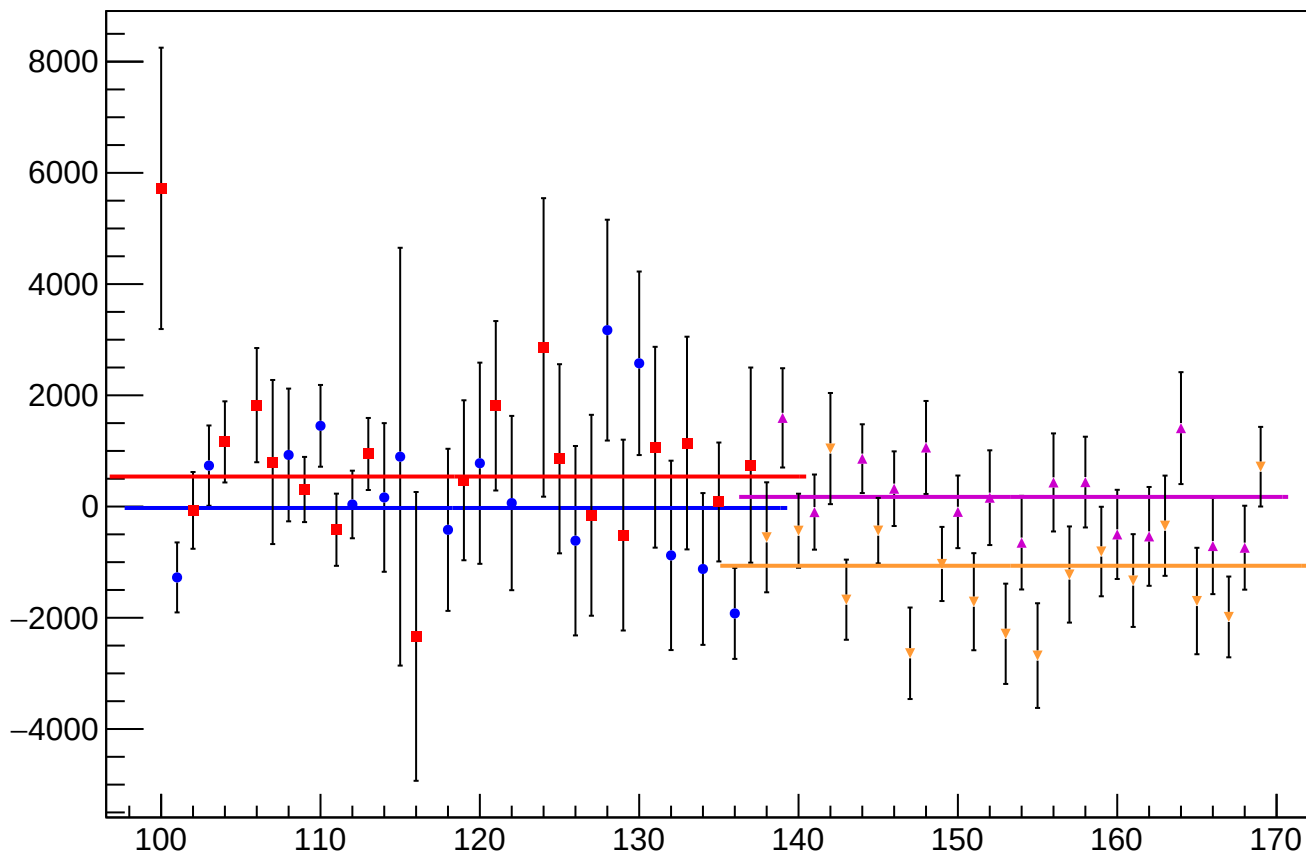
Right: 86.937+/-0.017 χ^2/NDF : 1620226.9/34

In: 99.589+/-0.016 χ^2/NDF : 1257747.8/30

Out: 97.836+/-0.016 χ^2/NDF : 1689737.9/35

All: 98.674+/-0.011 χ^2/NDF : 2953535.9/66

asym_sam_1548_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -25.770 ± 259.401 χ^2/NDF : 21.6/15

Left Out: -1064.781 ± 192.528 χ^2/NDF : 25.6/16

Right Out: 539.635 ± 241.238 χ^2/NDF : 13.6/18

Left In: 173.334 ± 201.886 χ^2/NDF : 11.8/14

Left: -475.084 ± 139.329 χ^2/NDF : 57.1/31

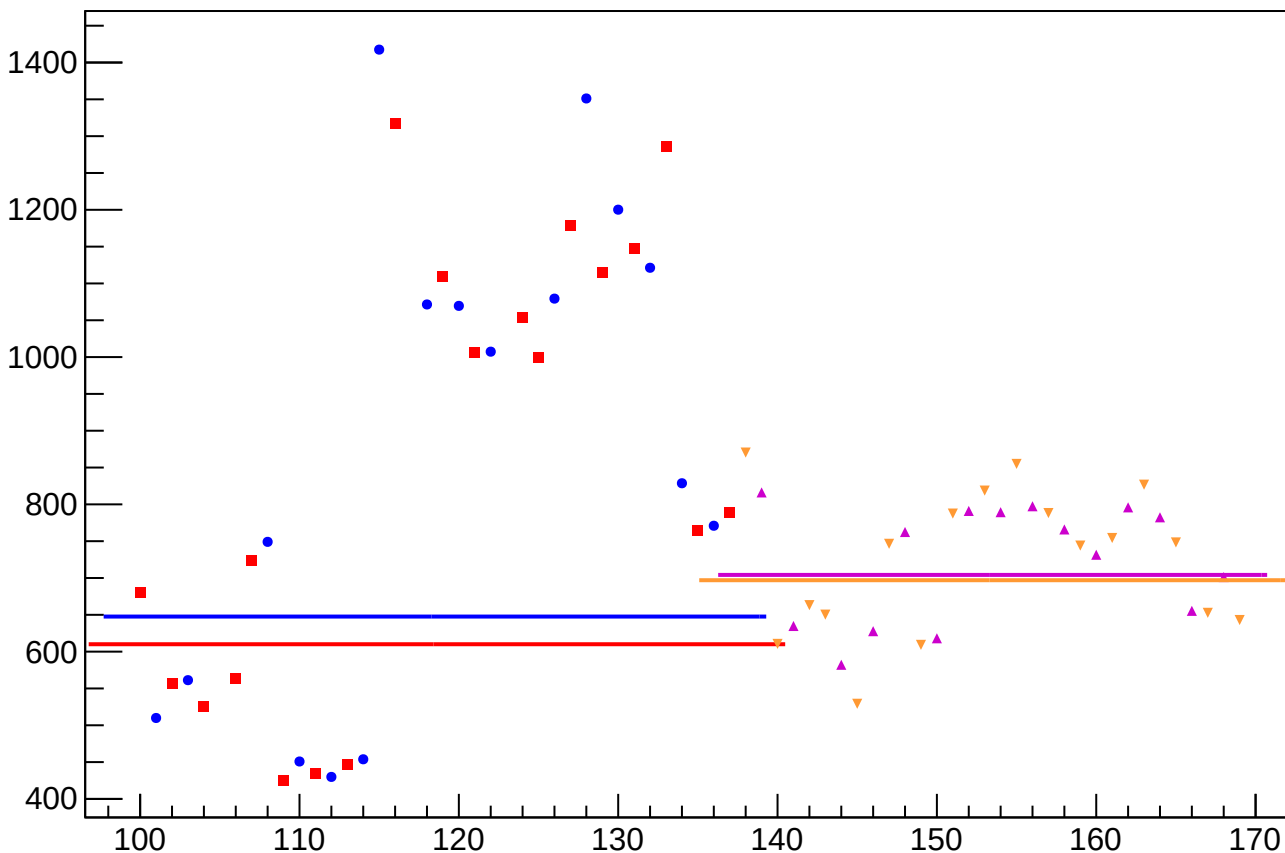
Right: 277.418 ± 176.653 χ^2/NDF : 37.7/34

In: 98.227 ± 159.321 χ^2/NDF : 33.7/30

Out: -440.499 ± 150.480 χ^2/NDF : 66.2/35

All: -186.498 ± 109.397 χ^2/NDF : 106.0/66

asym_sam_1548_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 647.640 $\pm$ 0.183 χ^2 /NDF: 1887820.6/15

Left Out: 696.989 $\pm$ 0.136 χ^2 /NDF: 529057.6/16

Right Out: 610.060 $\pm$ 0.171 χ^2 /NDF: 2074251.1/18

Left In: 704.199 $\pm$ 0.143 χ^2 /NDF: 318017.5/14

Left: 700.423 $\pm$ 0.099 χ^2 /NDF: 848411.2/31

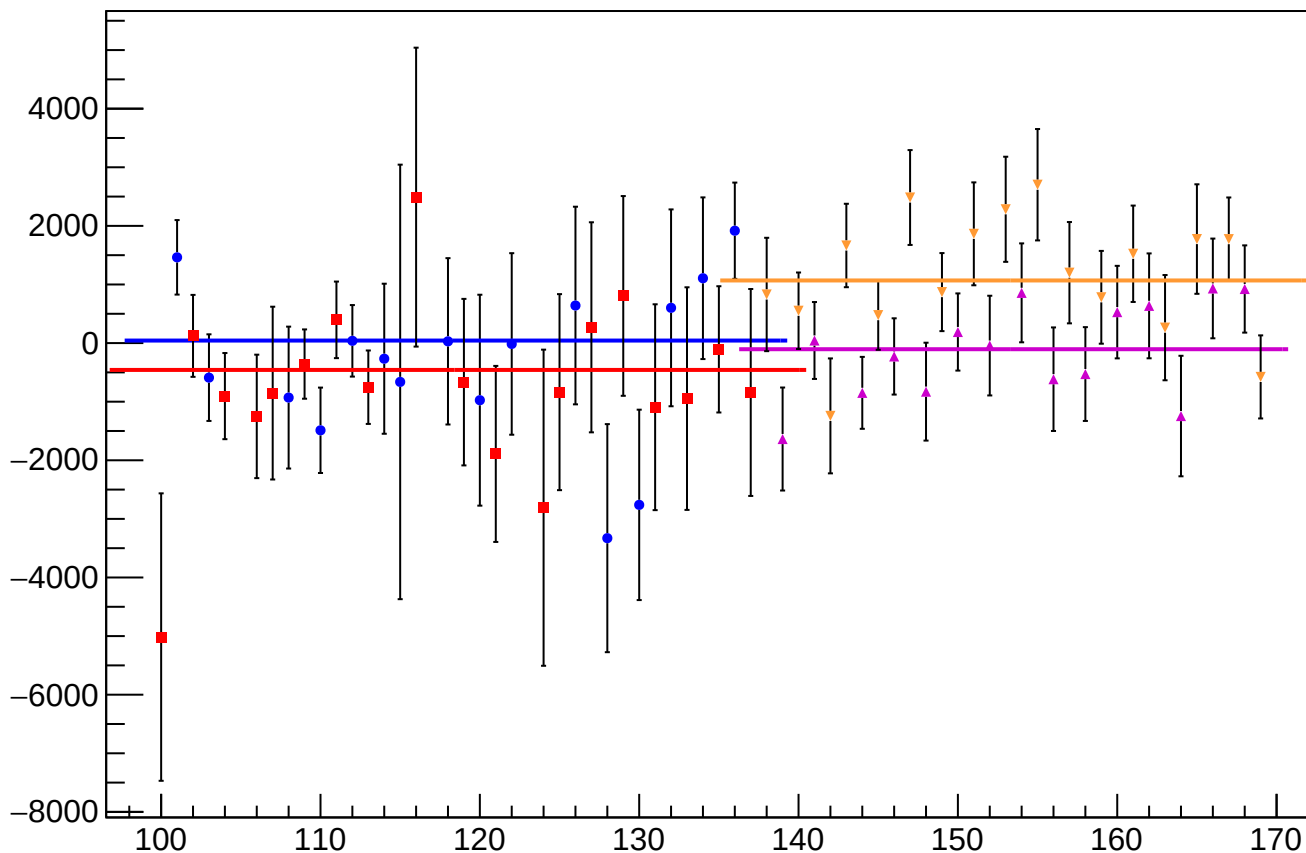
Right: 627.488 $\pm$ 0.125 χ^2 /NDF: 3984580.5/34

In: 682.864 $\pm$ 0.113 χ^2 /NDF: 2265052.4/30

Out: 663.165 $\pm$ 0.106 χ^2 /NDF: 2761956.8/35

All: 672.452 $\pm$ 0.077 χ^2 /NDF: 5043168.8/66

asym_sam_1548_avg_mean vs Slug, Sign Corrected



Right In: 43.152 ± 259.796 $\chi^2/\text{NDF}: 23.2/15$

Left Out: 1068.630 ± 190.764 $\chi^2/\text{NDF}: 24.9/16$

Right Out: -458.111 ± 241.118 $\chi^2/\text{NDF}: 11.3/18$

Left In: -104.628 ± 200.055 $\chi^2/\text{NDF}: 13.4/14$

Left: 509.879 ± 138.058 $\chi^2/\text{NDF}: 56.3/31$

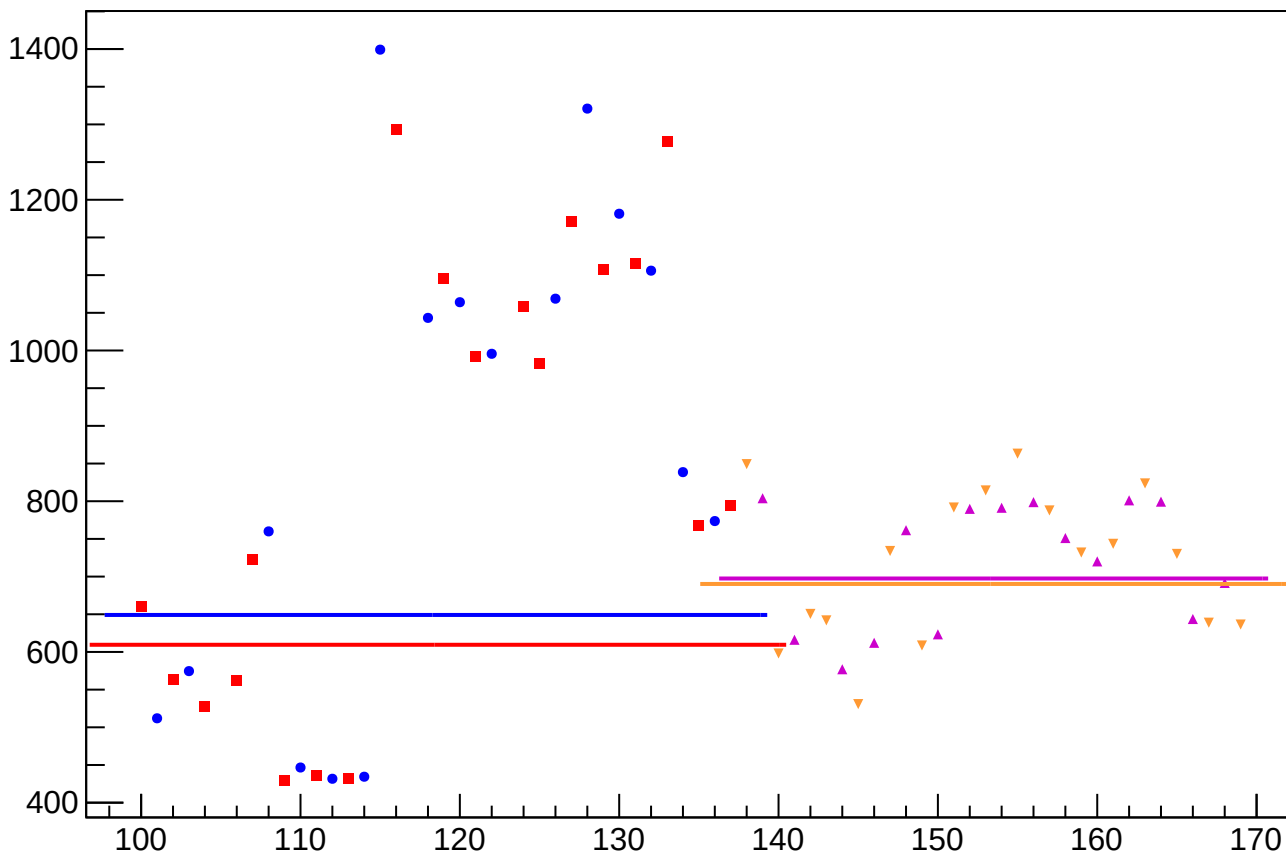
Right: -226.145 ± 176.731 $\chi^2/\text{NDF}: 36.5/34$

In: -49.618 ± 158.506 $\chi^2/\text{NDF}: 36.8/30$

Out: 480.877 ± 149.604 $\chi^2/\text{NDF}: 60.8/35$

All: 230.944 ± 108.797 $\chi^2/\text{NDF}: 103.6/66$

asym_sam_1548_avg_rms vs Slug, Sign Corrected



Right In: 649.091 $\pm$ 0.184 χ^2 /NDF: 1845815.6/15

Left Out: 690.208 $\pm$ 0.135 χ^2 /NDF: 527956.8/16

Right Out: 609.516 $\pm$ 0.170 χ^2 /NDF: 2043591.1/18

Left In: 697.454 $\pm$ 0.141 χ^2 /NDF: 348492.2/14

Left: 693.659 $\pm$ 0.098 χ^2 /NDF: 877823.0/31

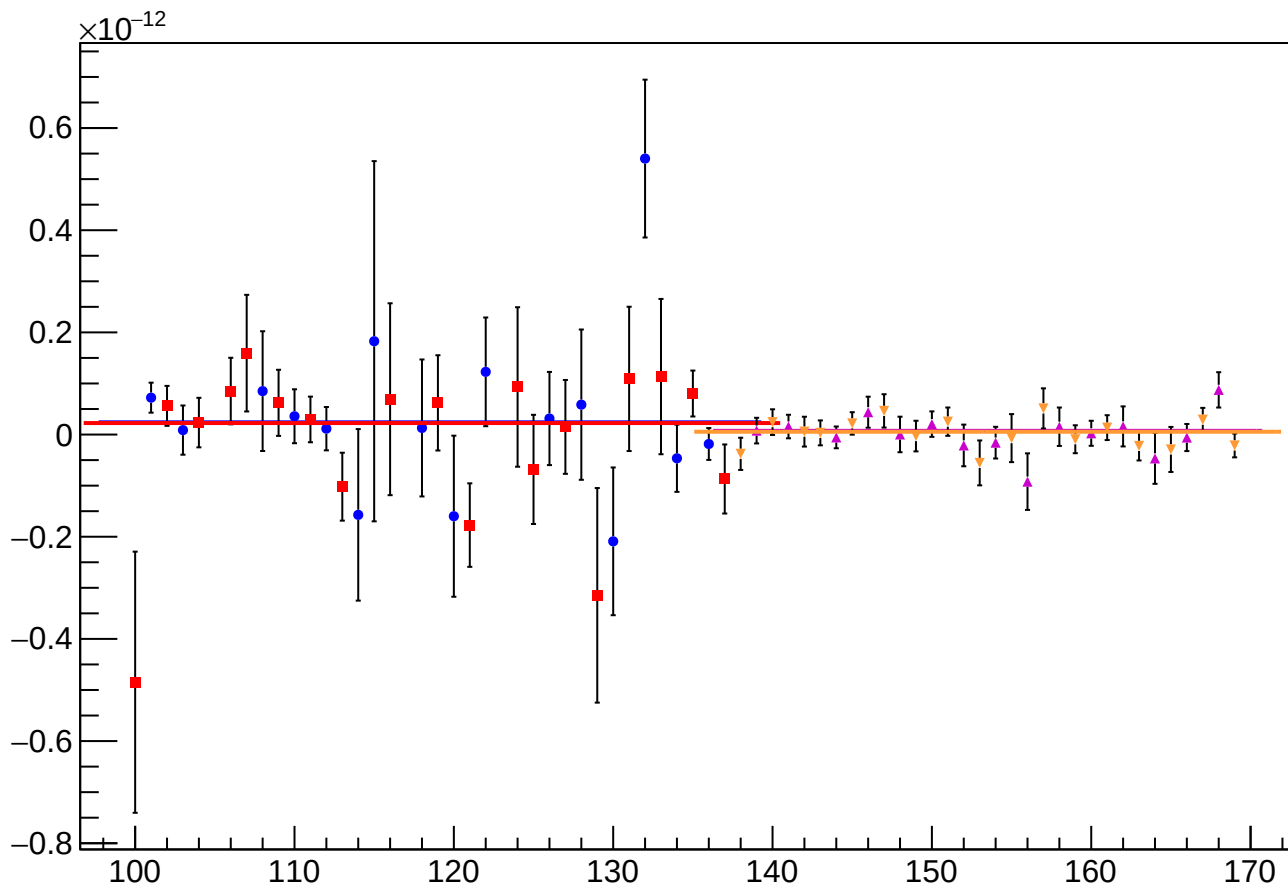
Right: 627.830 $\pm$ 0.125 χ^2 /NDF: 3914338.8/34

In: 679.451 $\pm$ 0.112 χ^2 /NDF: 2237816.9/30

Out: 659.144 $\pm$ 0.106 χ^2 /NDF: 2709309.3/35

All: 668.711 $\pm$ 0.077 χ^2 /NDF: 4964486.8/66

asym_sam_1548_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :12.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 25.7/18

Left In: 0.000+/-0.000 χ^2/NDF :13.5/14

Left: 0.000+/-0.000 χ^2/NDF : 26.3/31

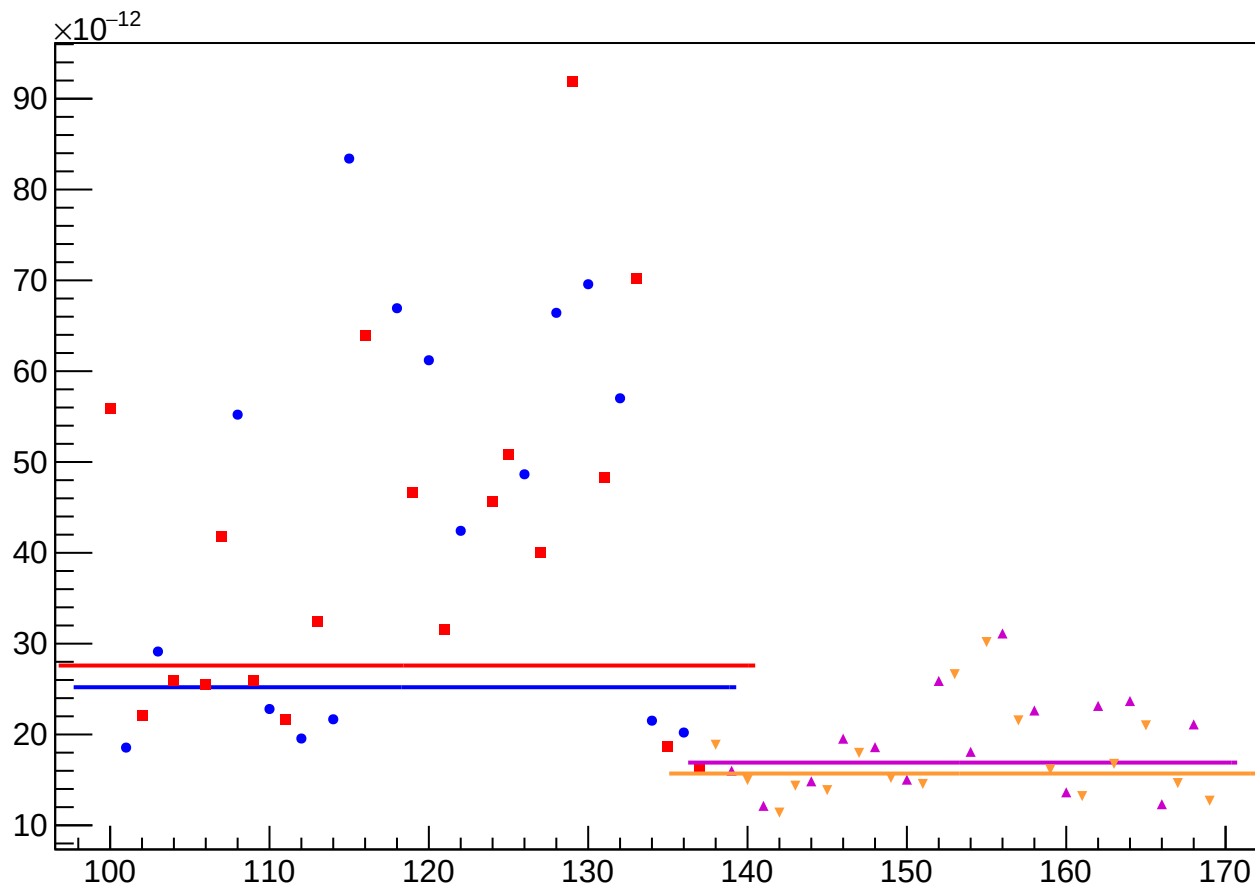
Right: 0.000+/-0.000 χ^2/NDF : 49.3/34

In: 0.000+/-0.000 χ^2/NDF :38.0/30

Out: 0.000+/-0.000 χ^2/NDF :39.4/35

All: 0.000+/-0.000 χ^2/NDF : 77.5/66

asym_sam_1548_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1312245.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 547040.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 988490.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 628995.1/14

Left: 0.000+/-0.000 χ^2/NDF : 1203209.2/31

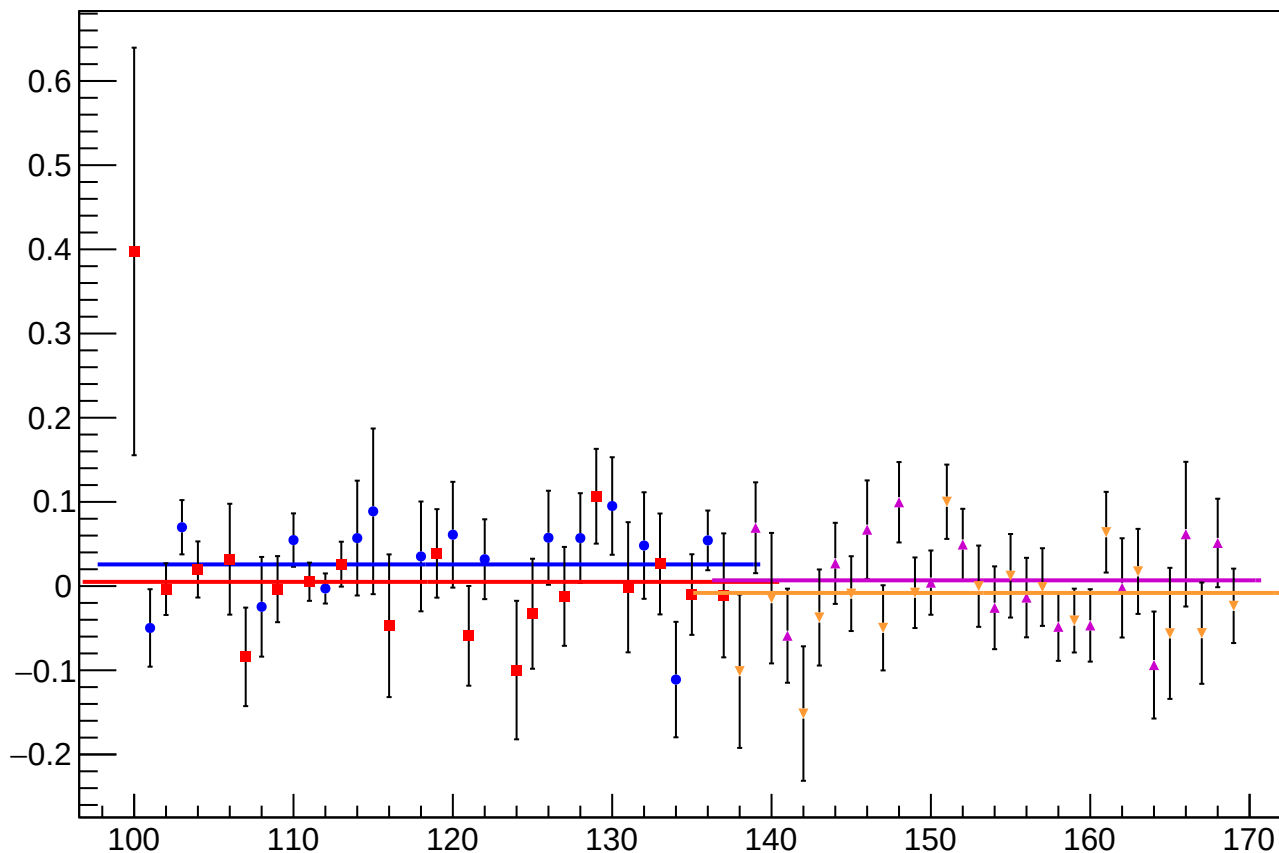
Right: 0.000+/-0.000 χ^2/NDF : 2323625.0/34

In: 0.000+/-0.000 χ^2/NDF : 2414790.0/30

Out: 0.000+/-0.000 χ^2/NDF : 2433875.0/35

All: 0.000+/-0.000 χ^2/NDF : 4876211.1/66

asym_sam_1548_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.010 χ^2 /NDF: 16.5/15

Left Out: -0.008 $\pm$ 0.012 χ^2 /NDF:15.8/16

Right Out: 0.005 $\pm$ 0.010 χ^2 /NDF: 13.6/18

Left In: 0.007 $\pm$ 0.013 χ^2 /NDF:16.4/14

Left: -0.001 $\pm$ 0.009 χ^2 /NDF: 33.0/31

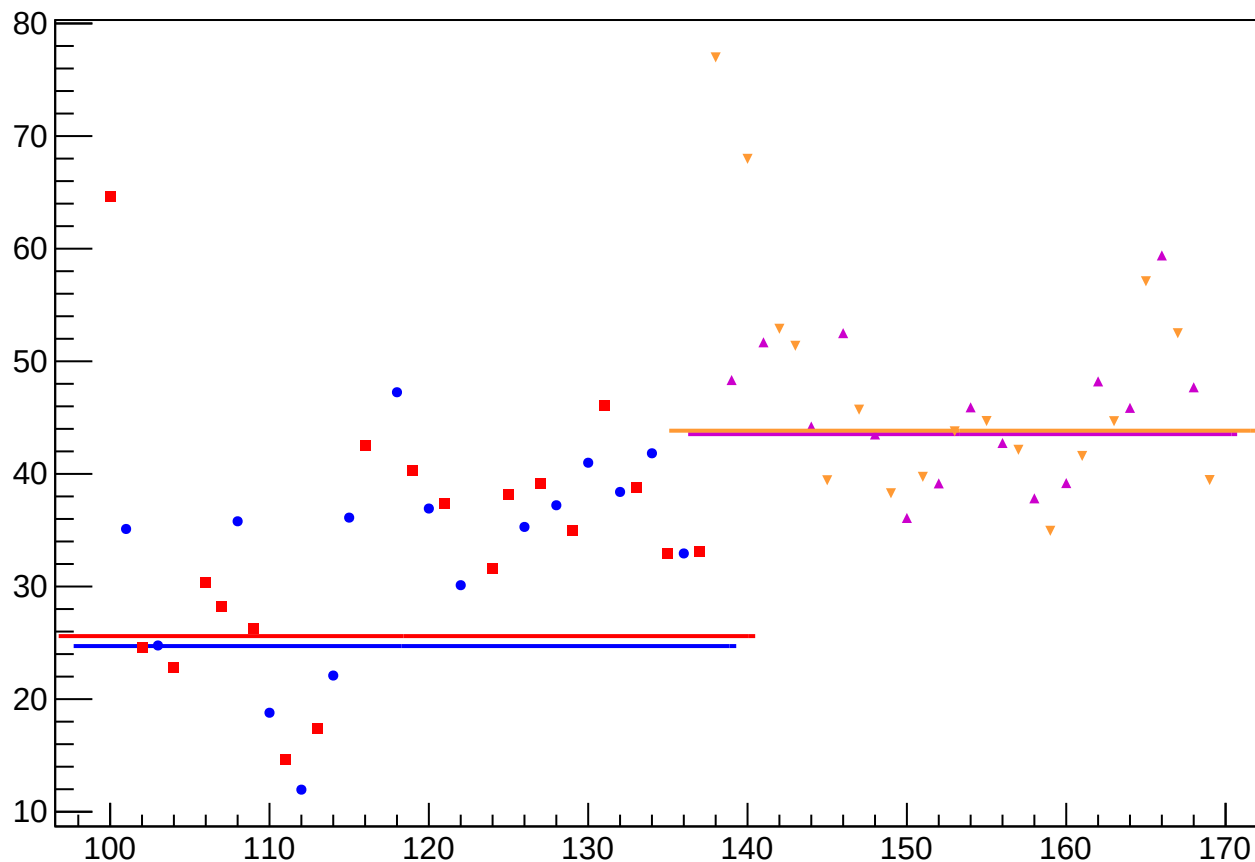
Right: 0.015 $\pm$ 0.007 χ^2 /NDF: 32.1/34

In: 0.018 $\pm$ 0.008 χ^2 /NDF:34.3/30

Out: -0.000 $\pm$ 0.008 χ^2 /NDF:30.1/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 67.1/66

asym_sam_1548_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.712 $\pm$ 0.007 χ^2 /NDF: 2295174.7/15

Left Out: 43.838 $\pm$ 0.009 χ^2 /NDF: 831348.5/16

Right Out: 25.597 $\pm$ 0.007 χ^2 /NDF: 1605235.8/18

Left In: 43.532 $\pm$ 0.009 χ^2 /NDF: 364530.3/14

Left: 43.690 $\pm$ 0.006 χ^2 /NDF: 1196471.1/31

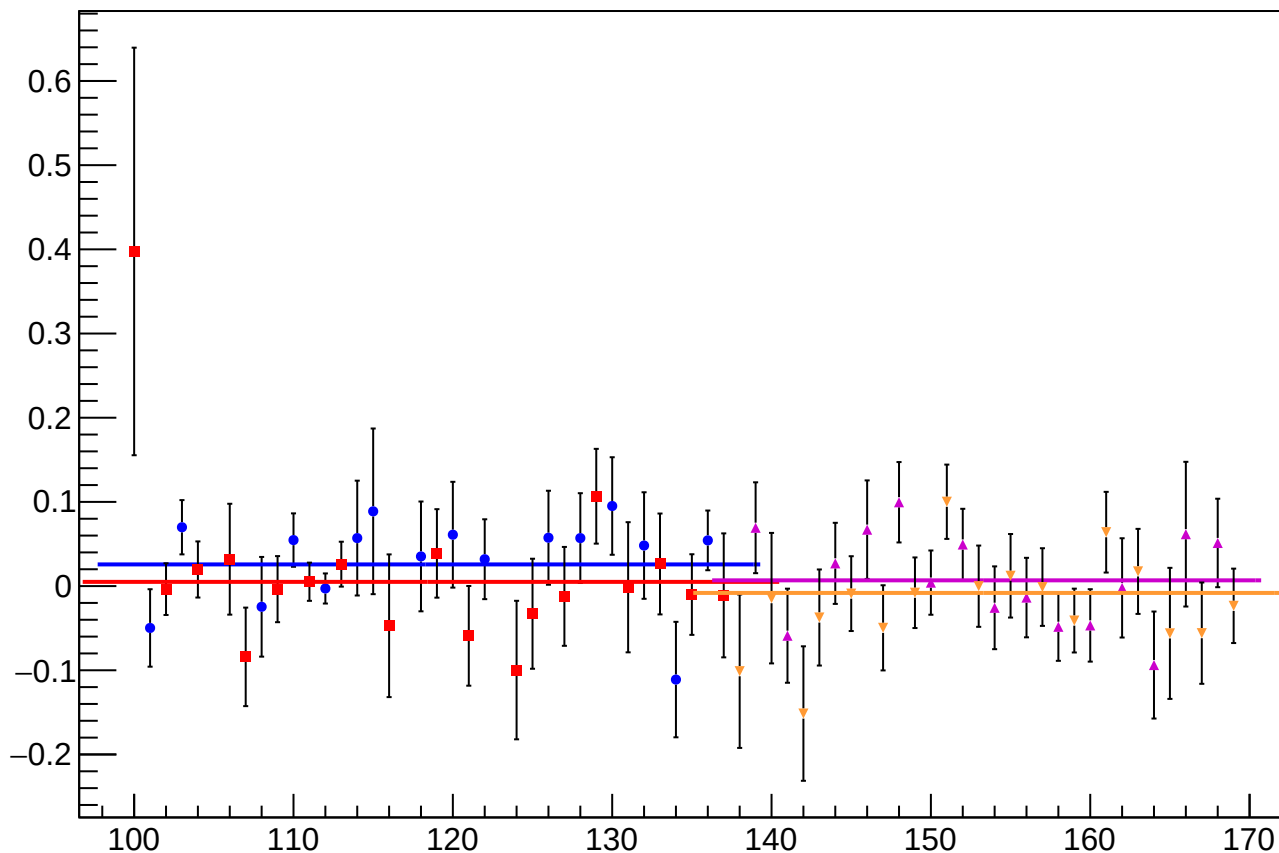
Right: 25.155 $\pm$ 0.005 χ^2 /NDF: 3907717.2/34

In: 32.167 $\pm$ 0.006 χ^2 /NDF: 5275457.6/30

Out: 33.091 $\pm$ 0.006 χ^2 /NDF: 4989760.6/35

All: 32.635 $\pm$ 0.004 χ^2 /NDF: 10278596.5/66

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 ± 0.010 $\chi^2/\text{NDF}: 16.5/15$

Left Out: -0.008 ± 0.012 $\chi^2/\text{NDF}: 15.8/16$

Right Out: 0.005 ± 0.010 $\chi^2/\text{NDF}: 13.6/18$

Left In: 0.007 ± 0.013 $\chi^2/\text{NDF}: 16.4/14$

Left: -0.001 ± 0.009 $\chi^2/\text{NDF}: 33.0/31$

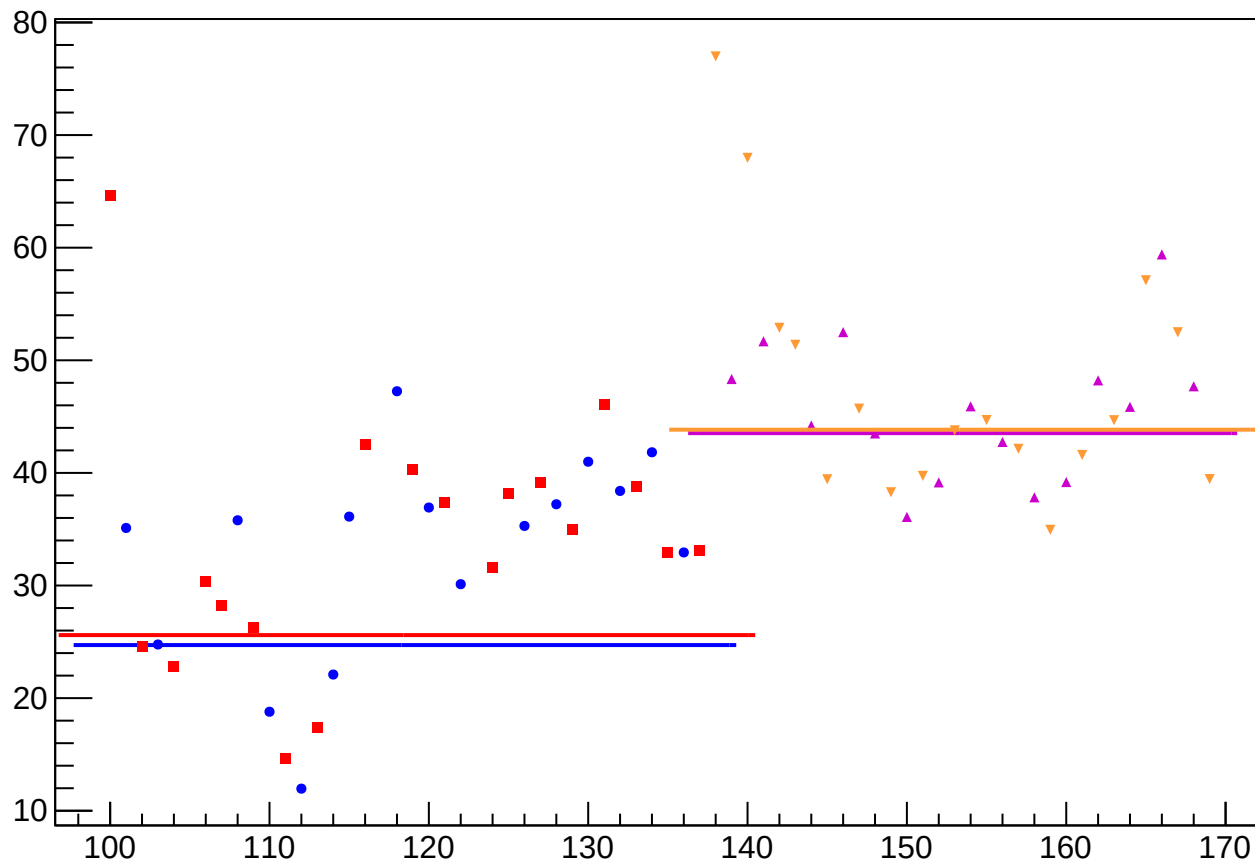
Right: 0.015 ± 0.007 $\chi^2/\text{NDF}: 32.1/34$

In: 0.018 ± 0.008 $\chi^2/\text{NDF}: 34.3/30$

Out: -0.000 ± 0.008 $\chi^2/\text{NDF}: 30.1/35$

All: 0.009 ± 0.006 $\chi^2/\text{NDF}: 67.1/66$

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.712+/-0.007 χ^2/NDF : 2295174.7/15

Left Out: 43.838+/-0.009 χ^2/NDF : 831348.5/16

Right Out: 25.597+/-0.007 χ^2/NDF : 1605235.8/18

Left In: 43.532+/-0.009 χ^2/NDF : 364530.3/14

Left: 43.690+/-0.006 χ^2/NDF : 1196471.1/31

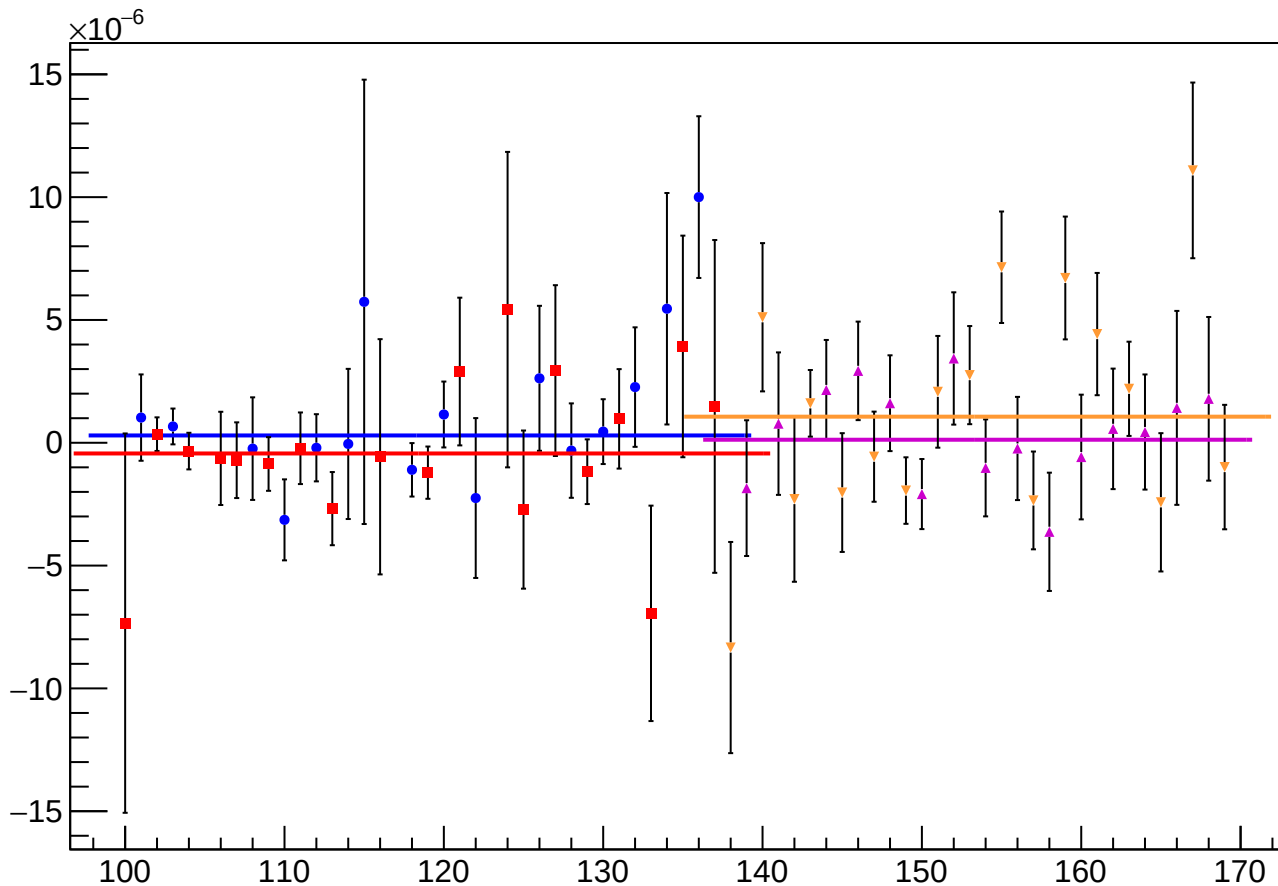
Right: 25.155+/-0.005 χ^2/NDF : 3907717.2/34

In: 32.167+/-0.006 χ^2/NDF : 5275457.6/30

Out: 33.091+/-0.006 χ^2/NDF : 4989760.6/35

All: 32.635+/-0.004 χ^2/NDF : 10278596.5/66

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :43.5/16

Right Out: -0.000+/-0.000 χ^2/NDF : 12.7/18

Left In: 0.000+/-0.000 χ^2/NDF :11.3/14

Left: 0.000+/-0.000 χ^2/NDF : 56.2/31

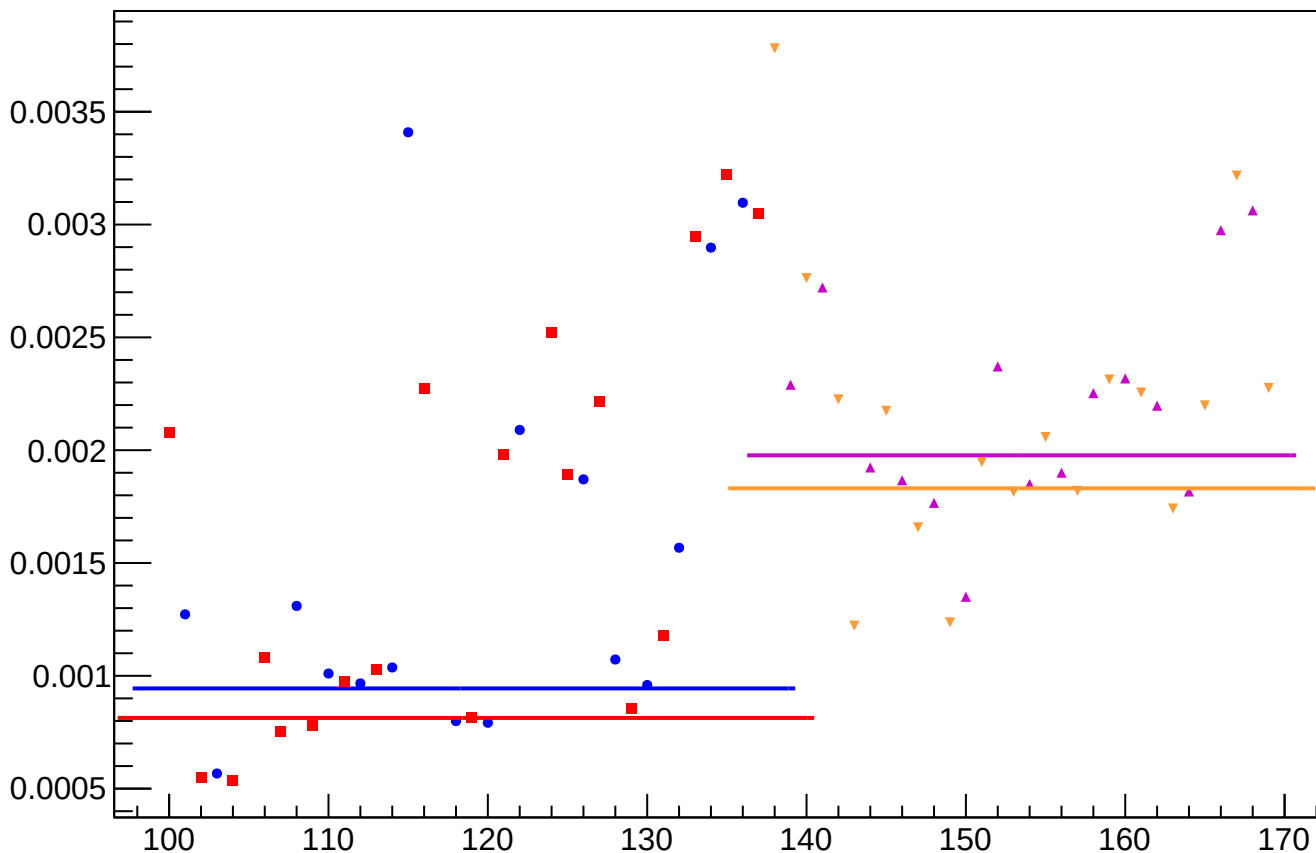
Right: -0.000+/-0.000 χ^2/NDF : 33.9/34

In: 0.000+/-0.000 χ^2/NDF :30.6/30

Out: 0.000+/-0.000 χ^2/NDF :61.9/35

All: 0.000+/-0.000 χ^2/NDF : 92.8/66

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 2665853.3/15

Left Out: 0.002+/-0.000 χ^2/NDF :2033903.8/16

Right Out: 0.001+/-0.000 χ^2/NDF : 3244147.3/18

Left In: 0.002+/-0.000 χ^2/NDF :1055875.2/14

Left: 0.002+/-0.000 χ^2/NDF : 3159369.1/31

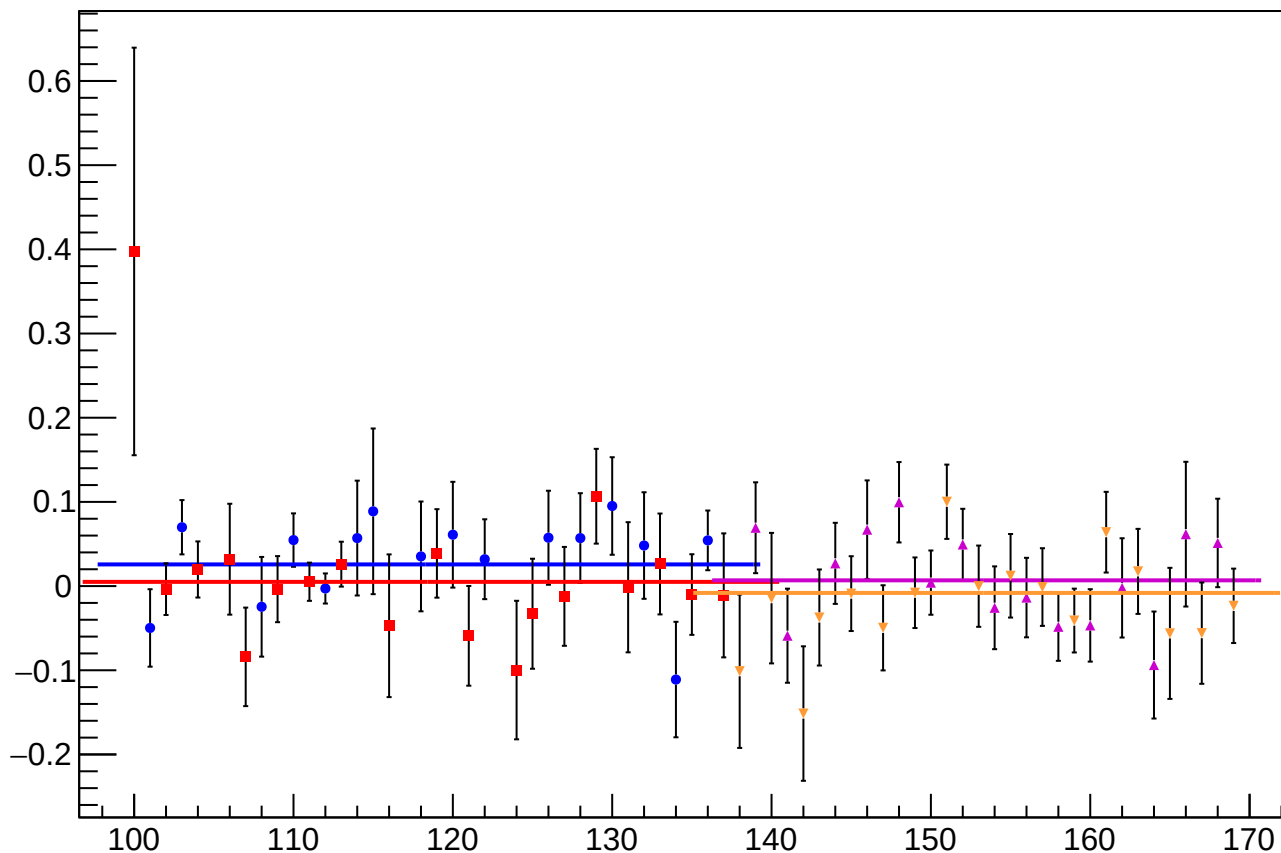
Right: 0.001+/-0.000 χ^2/NDF : 6033376.9/34

In: 0.001+/-0.000 χ^2/NDF :7986049.1/30

Out: 0.001+/-0.000 χ^2/NDF :10587366.7/35

All: 0.001+/-0.000 χ^2/NDF : 18839621.9/66

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.010 χ^2 /NDF: 16.5/15

Left Out: -0.008 $\pm$ 0.012 χ^2 /NDF:15.8/16

Right Out: 0.005 $\pm$ 0.010 χ^2 /NDF: 13.6/18

Left In: 0.007 $\pm$ 0.013 χ^2 /NDF:16.4/14

Left: -0.001 $\pm$ 0.009 χ^2 /NDF: 33.0/31

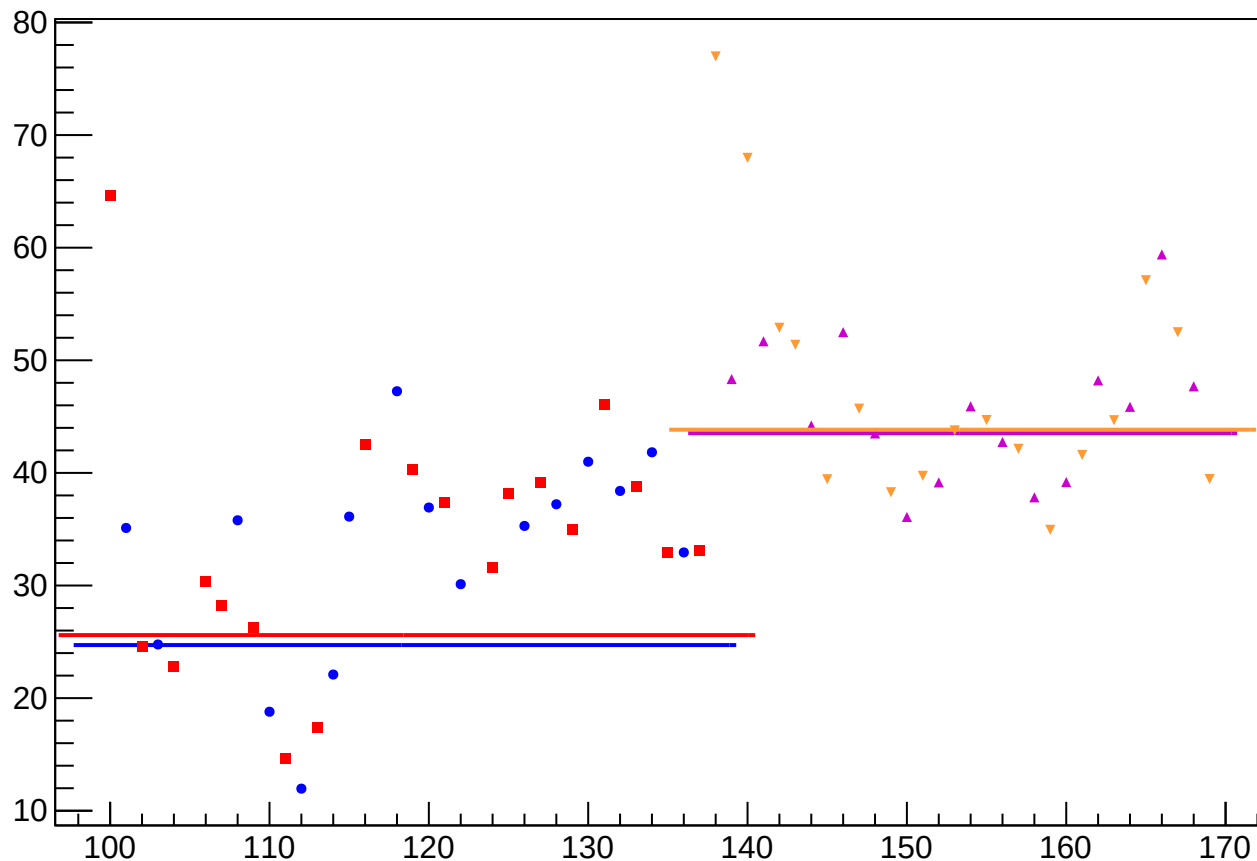
Right: 0.015 $\pm$ 0.007 χ^2 /NDF: 32.1/34

In: 0.018 $\pm$ 0.008 χ^2 /NDF:34.3/30

Out: -0.000 $\pm$ 0.008 χ^2 /NDF:30.1/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 67.1/66

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.712 $\pm$ 0.007 χ^2 /NDF: 2295351.2/15

Left Out: 43.839 $\pm$ 0.009 χ^2 /NDF: 831340.5/16

Right Out: 25.597 $\pm$ 0.007 χ^2 /NDF: 1605387.3/18

Left In: 43.532 $\pm$ 0.009 χ^2 /NDF: 364527.1/14

Left: 43.690 $\pm$ 0.006 χ^2 /NDF: 1196459.9/31

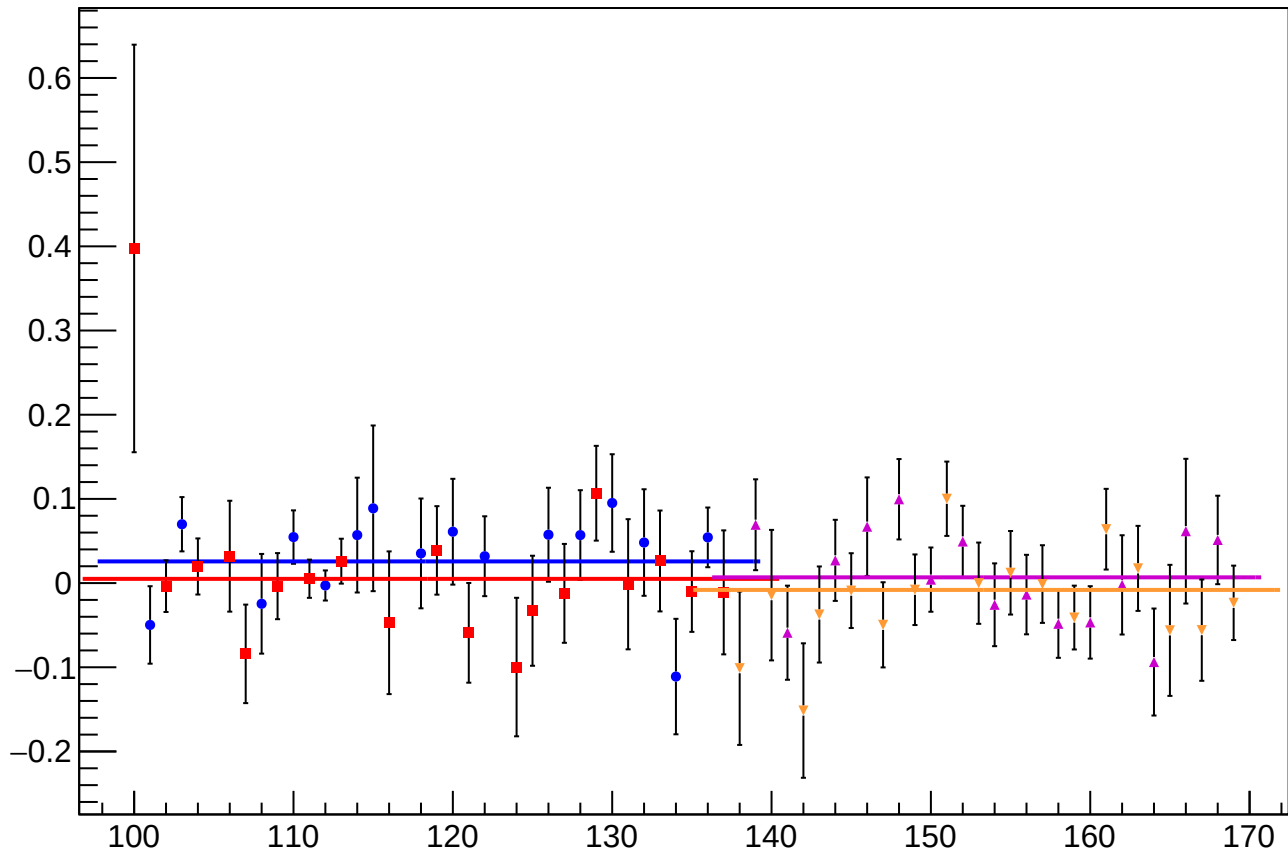
Right: 25.155 $\pm$ 0.005 χ^2 /NDF: 3908047.8/34

In: 32.166 $\pm$ 0.006 χ^2 /NDF: 5275895.0/30

Out: 33.091 $\pm$ 0.006 χ^2 /NDF: 4990117.4/35

All: 32.635 $\pm$ 0.004 χ^2 /NDF: 10279395.0/66

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.010 χ^2 /NDF: 16.5/15

Left Out: -0.008 $\pm$ 0.012 χ^2 /NDF:15.8/16

Right Out: 0.005 $\pm$ 0.010 χ^2 /NDF: 13.6/18

Left In: 0.007 $\pm$ 0.013 χ^2 /NDF:16.4/14

Left: -0.001 $\pm$ 0.009 χ^2 /NDF: 33.0/31

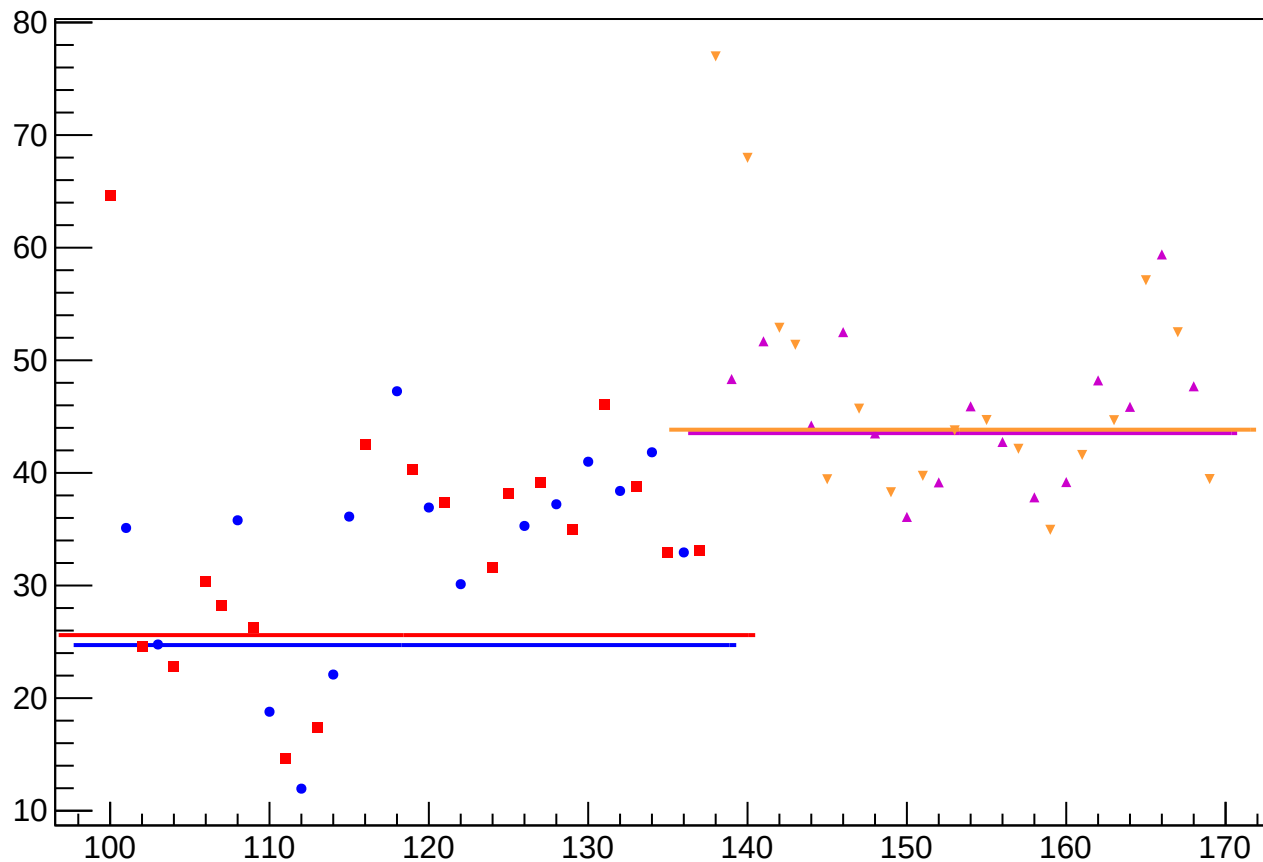
Right: 0.015 $\pm$ 0.007 χ^2 /NDF: 32.1/34

In: 0.018 $\pm$ 0.008 χ^2 /NDF:34.3/30

Out: -0.000 $\pm$ 0.008 χ^2 /NDF:30.1/35

All: 0.009 $\pm$ 0.006 χ^2 /NDF: 67.1/66

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 24.712 $\pm$ 0.007 χ^2 /NDF: 2295351.2/15

Left Out: 43.839 $\pm$ 0.009 χ^2 /NDF: 831340.5/16

Right Out: 25.597 $\pm$ 0.007 χ^2 /NDF: 1605387.3/18

Left In: 43.532 $\pm$ 0.009 χ^2 /NDF: 364527.1/14

Left: 43.690 $\pm$ 0.006 χ^2 /NDF: 1196459.9/31

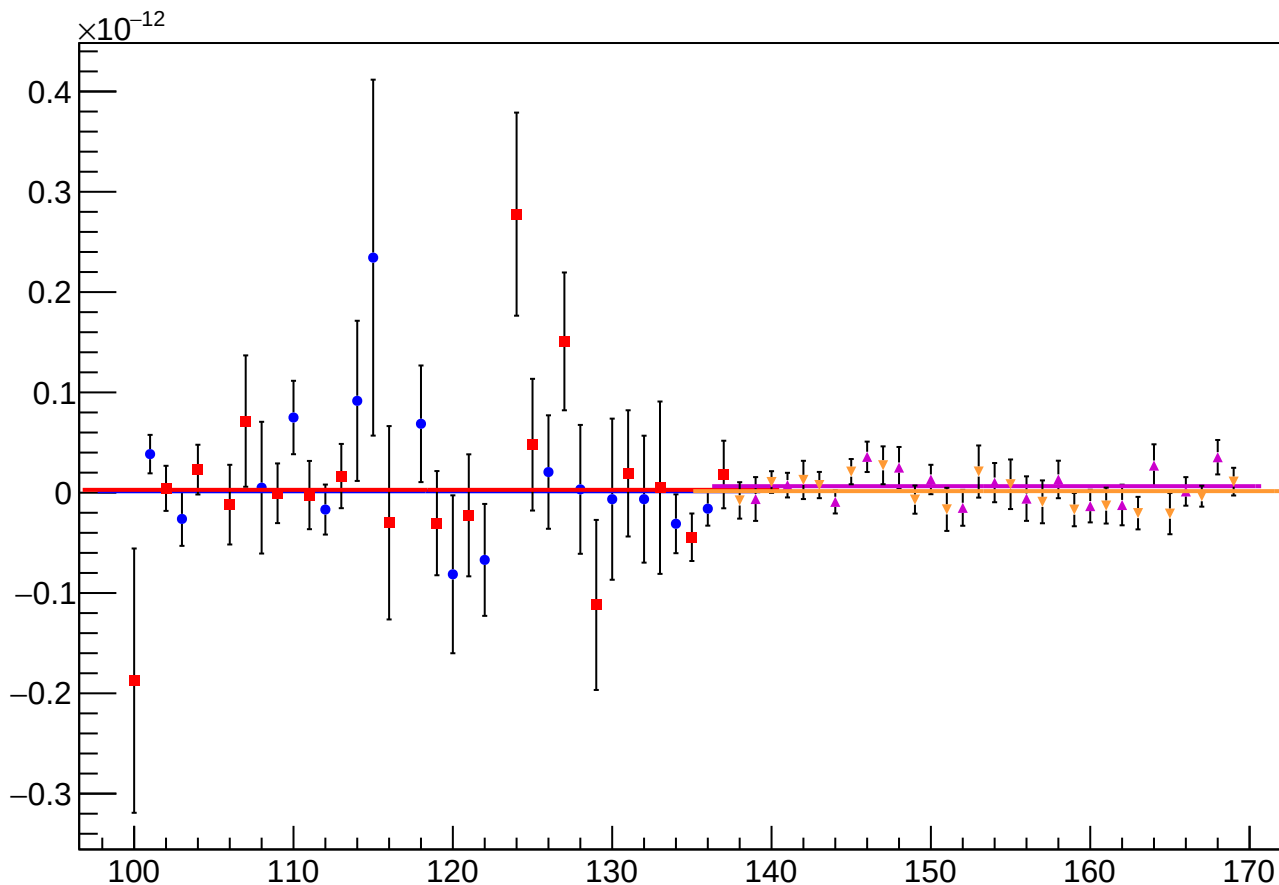
Right: 25.155 $\pm$ 0.005 χ^2 /NDF: 3908047.8/34

In: 32.166 $\pm$ 0.006 χ^2 /NDF: 5275895.0/30

Out: 33.091 $\pm$ 0.006 χ^2 /NDF: 4990117.4/35

All: 32.635 $\pm$ 0.004 χ^2 /NDF: 10279395.0/66

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :13.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 23.5/18

Left In: 0.000+/-0.000 χ^2/NDF :15.1/14

Left: 0.000+/-0.000 χ^2/NDF : 29.2/31

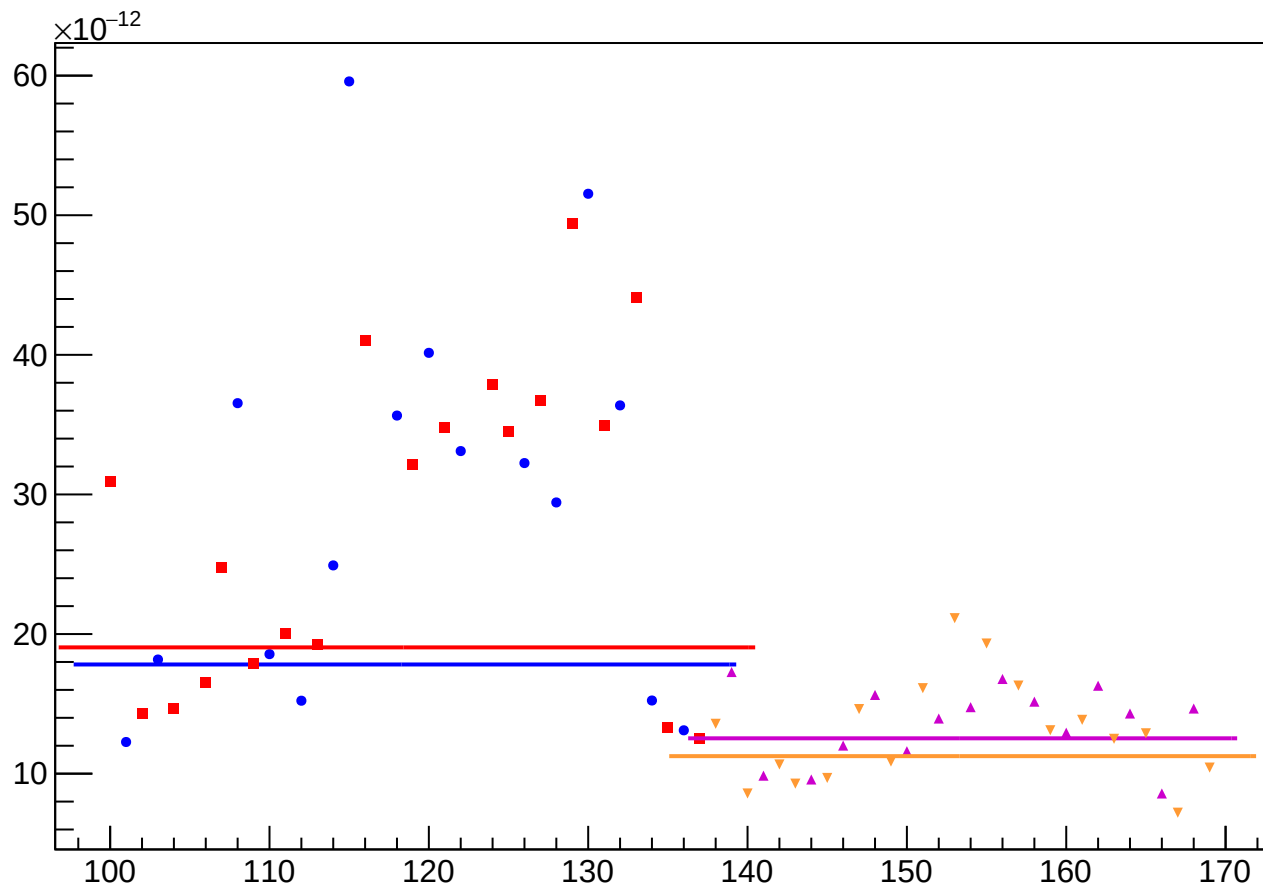
Right: 0.000+/-0.000 χ^2/NDF : 42.2/34

In: 0.000+/-0.000 χ^2/NDF :34.1/30

Out: 0.000+/-0.000 χ^2/NDF :36.9/35

All: 0.000+/-0.000 χ^2/NDF : 71.5/66

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1869965.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1415921.8/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1620721.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 795806.1/14

Left: 0.000+/-0.000 χ^2/NDF : 2311677.7/31

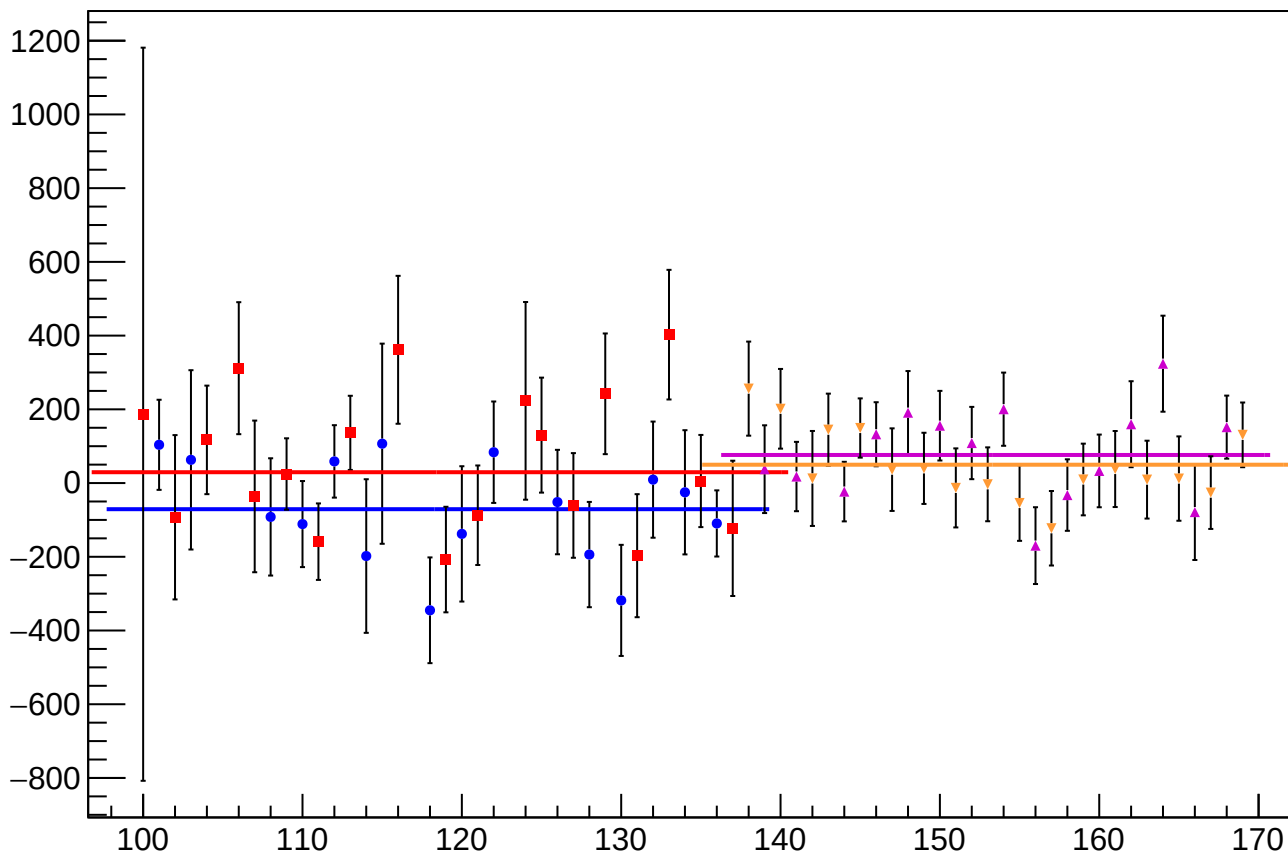
Right: 0.000+/-0.000 χ^2/NDF : 3509564.6/34

In: 0.000+/-0.000 χ^2/NDF : 3264456.0/30

Out: 0.000+/-0.000 χ^2/NDF : 4276429.7/35

All: 0.000+/-0.000 χ^2/NDF : 7640400.9/66

reg_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -70.892 ± 35.122 χ^2/NDF : 14.1/15

Left Out: 49.761 ± 24.756 χ^2/NDF : 13.6/16

Right Out: 29.410 ± 34.243 χ^2/NDF : 24.0/18

Left In: 76.182 ± 25.864 χ^2/NDF : 19.2/14

Left: 62.393 ± 17.884 χ^2/NDF : 33.3/31

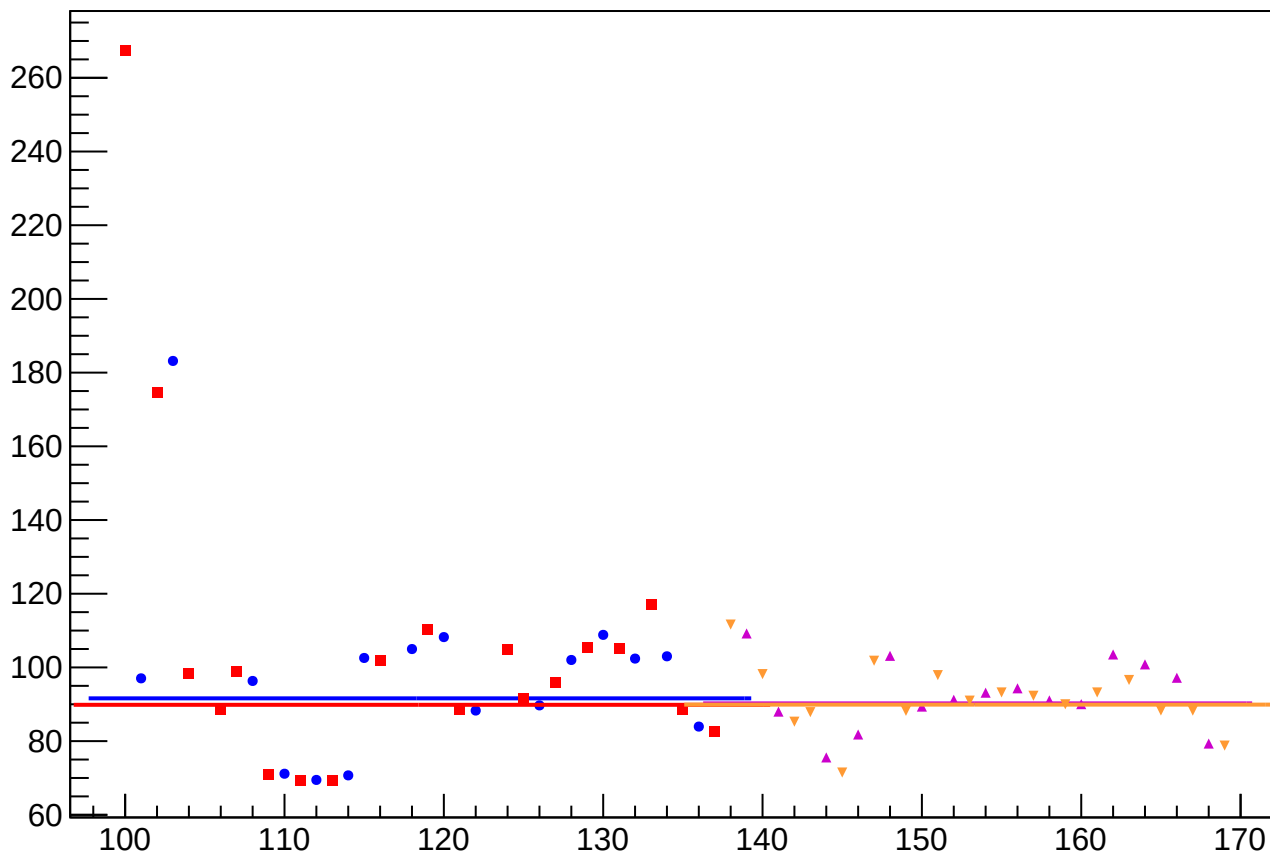
Right: -19.470 ± 24.518 χ^2/NDF : 42.3/34

In: 24.470 ± 20.826 χ^2/NDF : 44.6/30

Out: 42.775 ± 20.062 χ^2/NDF : 37.9/35

All: 33.965 ± 14.449 χ^2/NDF : 82.9/66

reg_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 91.608 $\pm$ 0.025 χ^2 /NDF: 580672.8/15

Left Out: 89.907 $\pm$ 0.018 χ^2 /NDF: 259267.3/16

Right Out: 89.854 $\pm$ 0.024 χ^2 /NDF: 746289.1/18

Left In: 90.242 $\pm$ 0.018 χ^2 /NDF: 245445.6/14

Left: 90.067 $\pm$ 0.013 χ^2 /NDF: 504888.3/31

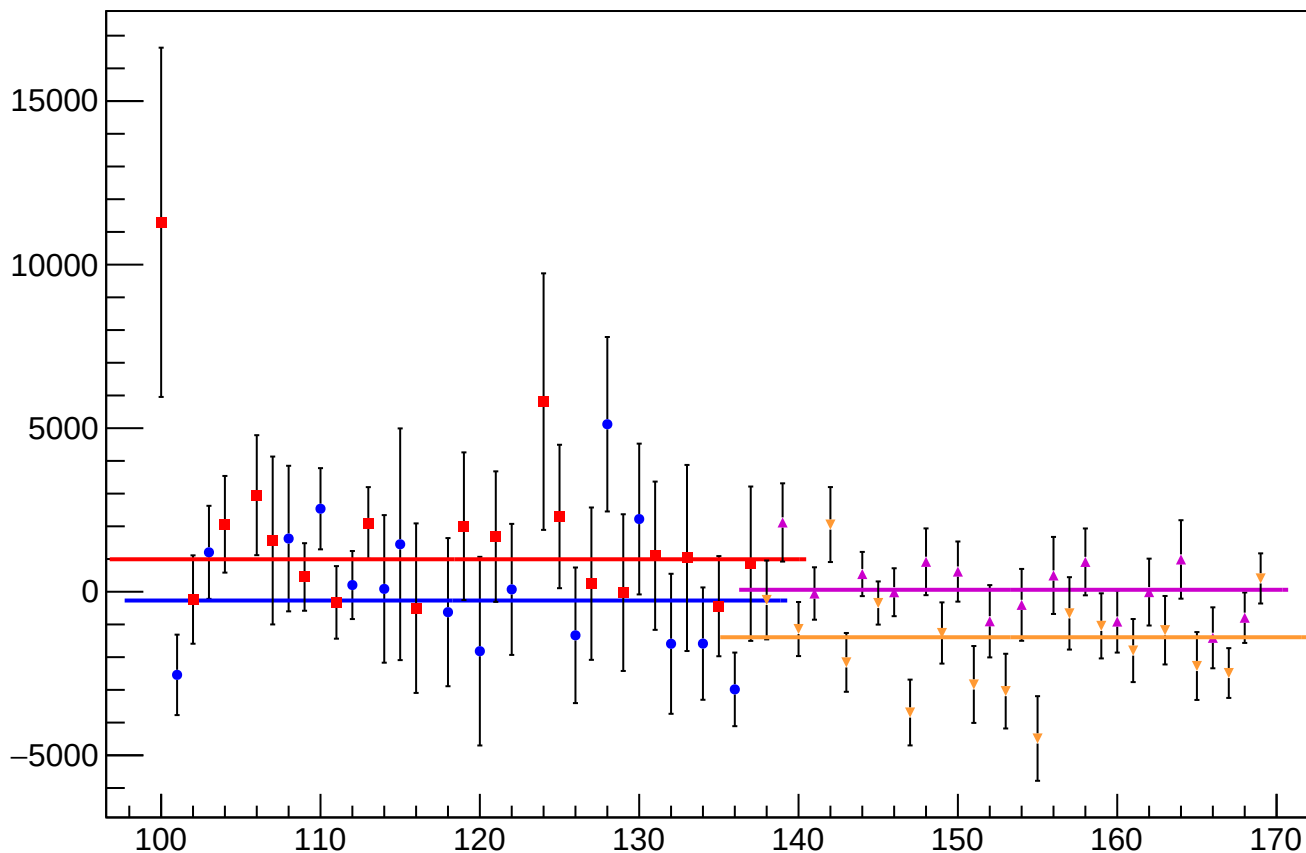
Right: 90.709 $\pm$ 0.017 χ^2 /NDF: 1329517.7/34

In: 90.722 $\pm$ 0.015 χ^2 /NDF: 828079.5/30

Out: 89.889 $\pm$ 0.014 χ^2 /NDF: 1005559.4/35

All: 90.290 $\pm$ 0.010 χ^2 /NDF: 1835300.7/66

asym_sam_3748_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -268.485 ± 419.578 χ^2/NDF : 23.4/15

Left Out: -1390.926 ± 230.408 χ^2/NDF : 36.9/16

Right Out: 992.670 ± 400.824 χ^2/NDF : 12.7/18

Left In: 59.743 ± 239.911 χ^2/NDF : 11.7/14

Left: -694.892 ± 166.181 χ^2/NDF : 67.6/31

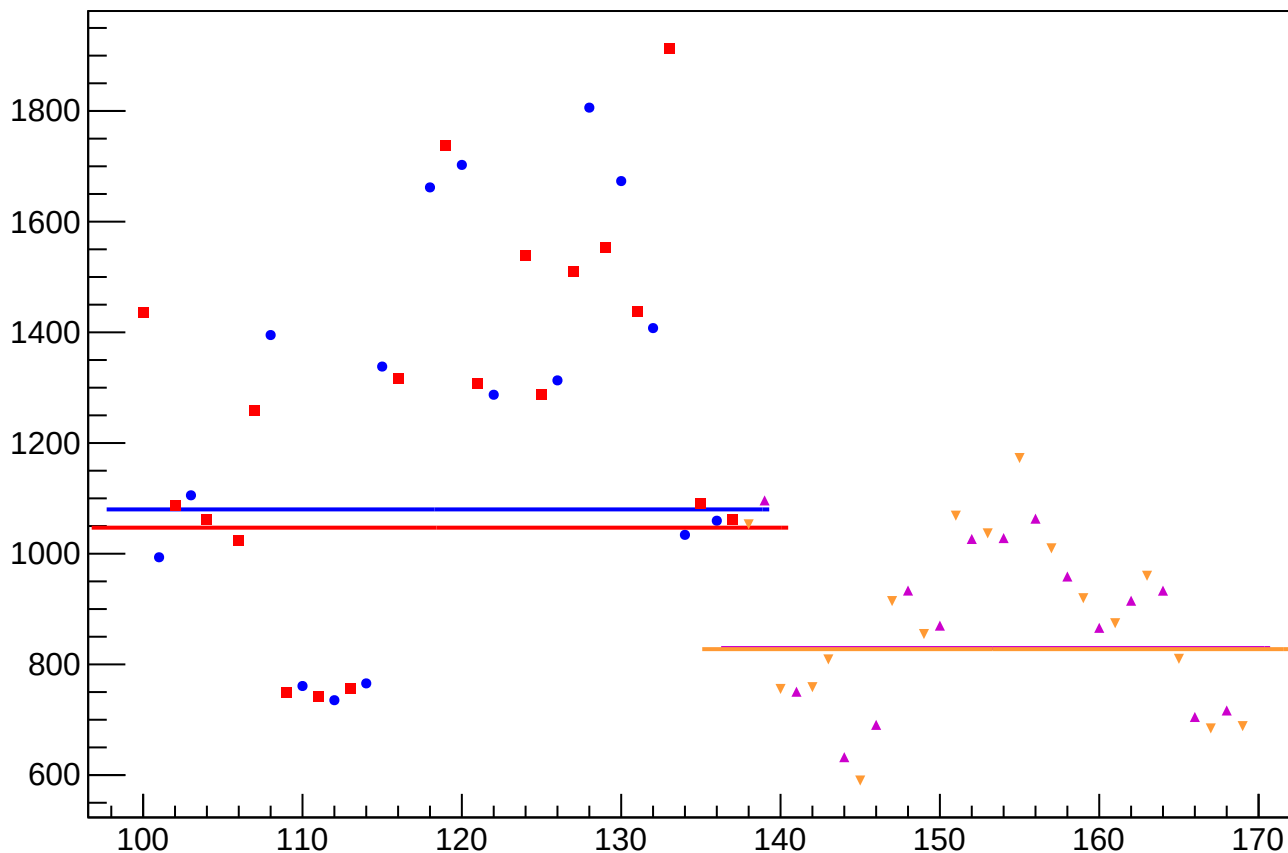
Right: 390.906 ± 289.829 χ^2/NDF : 40.8/34

In: -21.129 ± 208.269 χ^2/NDF : 35.6/30

Out: -798.921 ± 199.756 χ^2/NDF : 76.1/35

All: -426.245 ± 144.164 χ^2/NDF : 119.0/66

asym_sam_3748_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1080.045 $\pm$ 0.297 χ^2 /NDF: 1053468.5/15

Left Out: 827.568 $\pm$ 0.163 χ^2 /NDF: 907898.3/16

Right Out: 1047.068 $\pm$ 0.283 χ^2 /NDF: 1198646.2/18

Left In: 829.612 $\pm$ 0.170 χ^2 /NDF: 735867.2/14

Left: 828.549 $\pm$ 0.118 χ^2 /NDF: 1643841.0/31

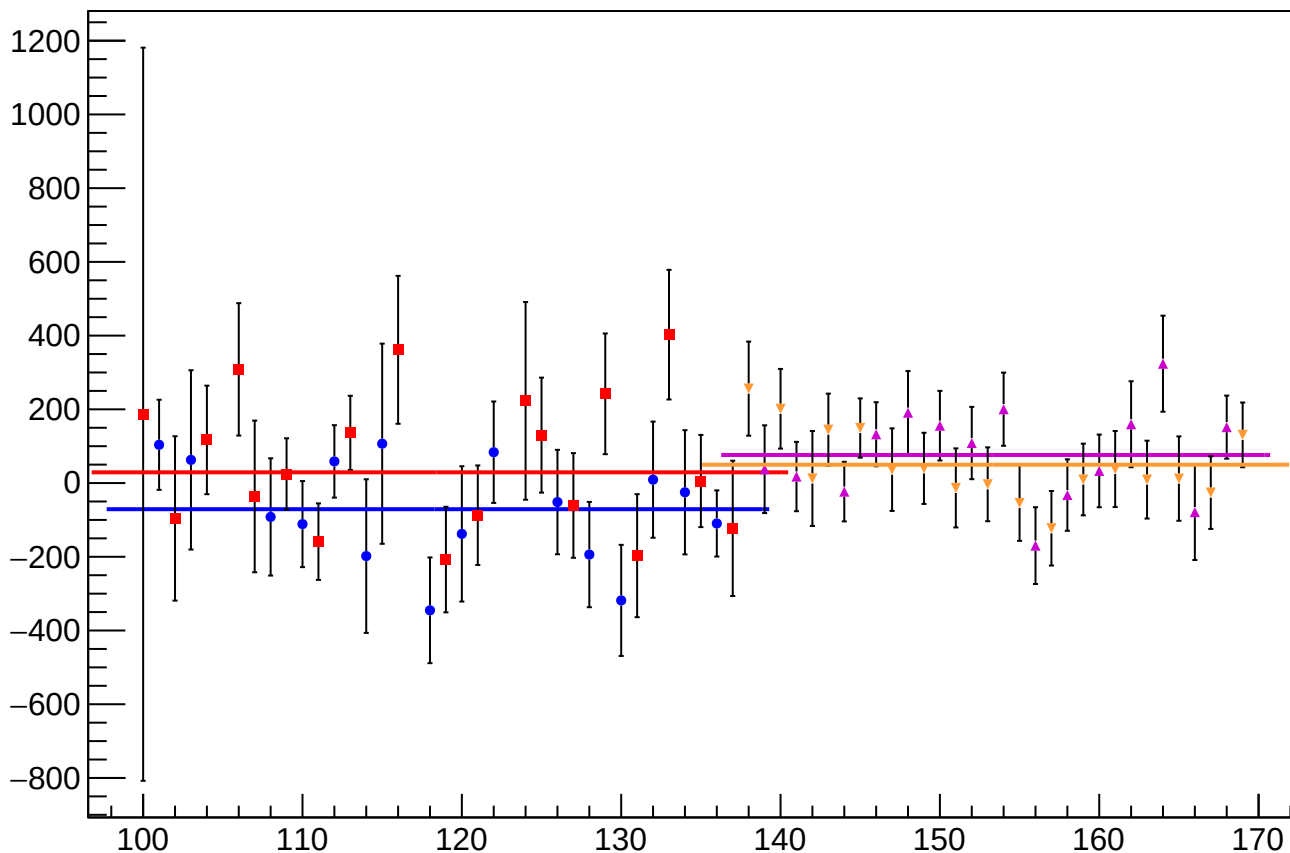
Right: 1062.803 $\pm$ 0.205 χ^2 /NDF: 2258574.4/34

In: 891.316 $\pm$ 0.147 χ^2 /NDF: 2326287.6/30

Out: 882.084 $\pm$ 0.141 χ^2 /NDF: 2557356.7/35

All: 886.508 $\pm$ 0.102 χ^2 /NDF: 4885691.0/66

cor_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -70.903 $\pm$ 35.122 χ^2 /NDF: 14.1/15

Left Out: 49.766 $\pm$ 24.756 χ^2 /NDF:13.6/16

Right Out: 29.159 $\pm$ 34.247 χ^2 /NDF: 24.0/18

Left In: 76.182 $\pm$ 25.864 χ^2 /NDF:19.2/14

Left: 62.396 $\pm$ 17.884 χ^2 /NDF: 33.3/31

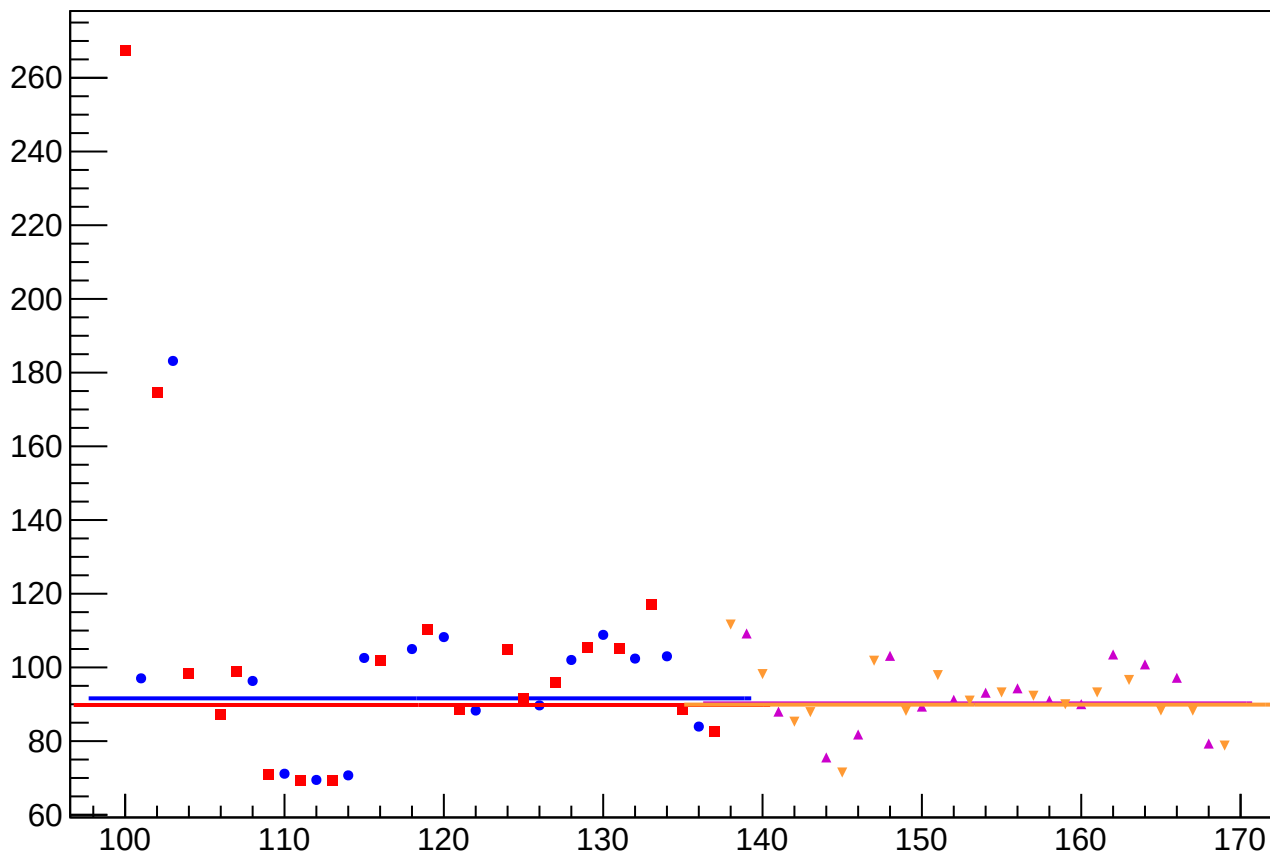
Right: -19.610 $\pm$ 24.520 χ^2 /NDF: 42.2/34

In: 24.466 $\pm$ 20.826 χ^2 /NDF:44.6/30

Out: 42.694 $\pm$ 20.063 χ^2 /NDF:37.8/35

All: 33.920 $\pm$ 14.449 χ^2 /NDF: 82.8/66

cor_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 91.608 $\pm$ 0.025 χ^2 /NDF: 580675.9/15

Left Out: 89.907 $\pm$ 0.018 χ^2 /NDF: 259267.3/16

Right Out: 89.807 $\pm$ 0.024 χ^2 /NDF: 746833.4/18

Left In: 90.242 $\pm$ 0.018 χ^2 /NDF: 245445.6/14

Left: 90.067 $\pm$ 0.013 χ^2 /NDF: 504888.3/31

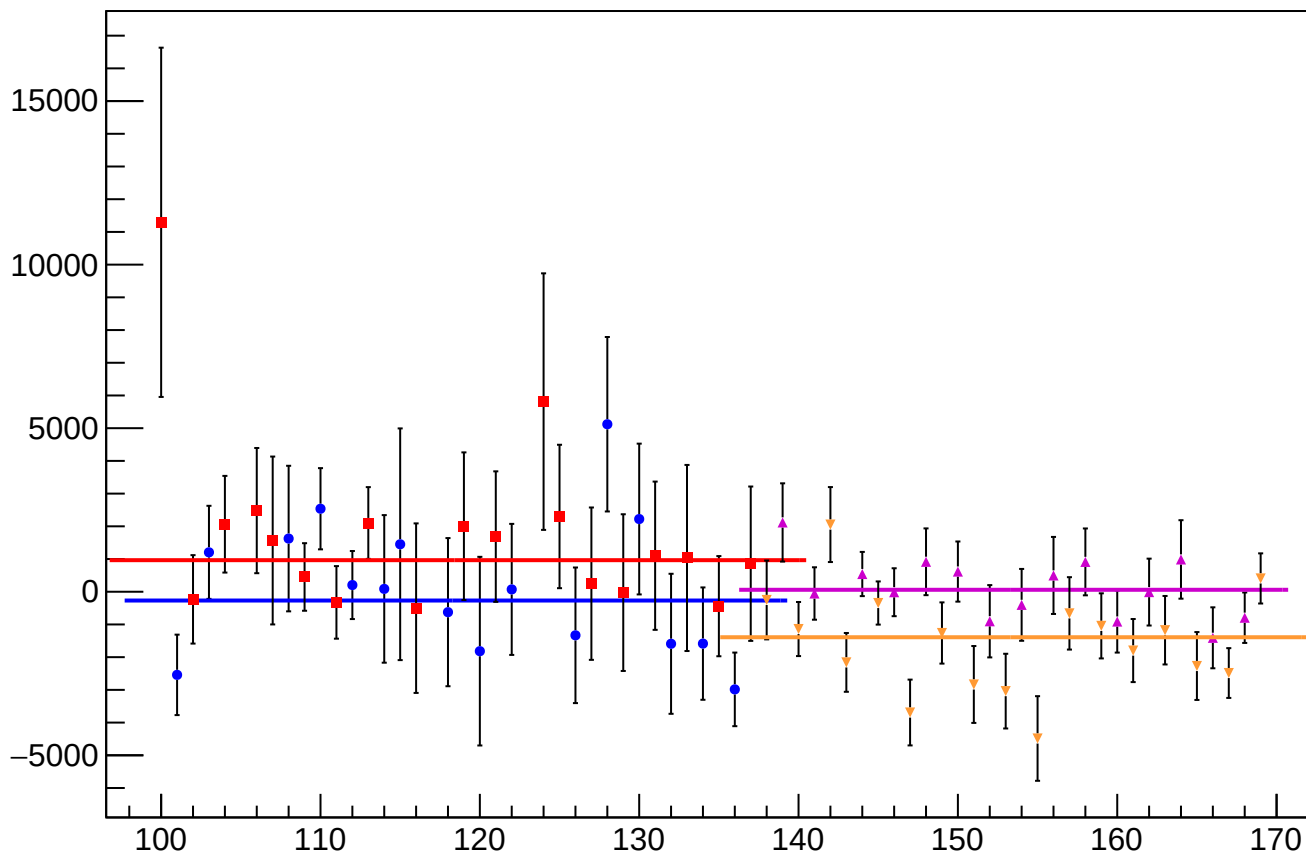
Right: 90.685 $\pm$ 0.017 χ^2 /NDF: 1330205.1/34

In: 90.722 $\pm$ 0.015 χ^2 /NDF: 828082.6/30

Out: 89.873 $\pm$ 0.014 χ^2 /NDF: 1006111.9/35

All: 90.282 $\pm$ 0.010 χ^2 /NDF: 1835921.8/66

asym_sam_3748_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -268.506 ± 419.581 $\chi^2/\text{NDF}: 23.4/15$

Left Out: -1390.918 ± 230.408 $\chi^2/\text{NDF}: 36.9/16$

Right Out: 964.986 ± 401.633 $\chi^2/\text{NDF}: 12.1/18$

Left In: 59.749 ± 239.911 $\chi^2/\text{NDF}: 11.7/14$

Left: -694.886 ± 166.181 $\chi^2/\text{NDF}: 67.6/31$

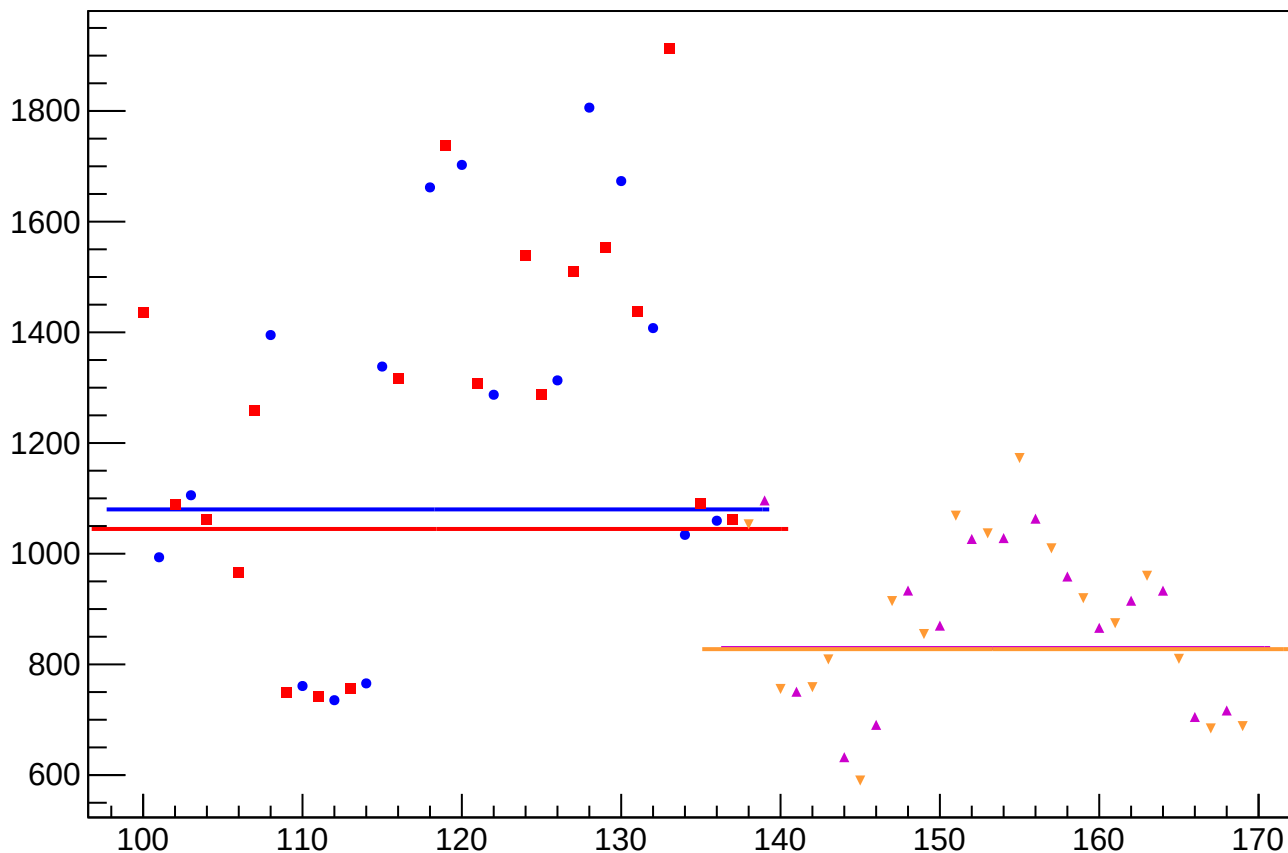
Right: 375.186 ± 290.135 $\chi^2/\text{NDF}: 40.1/34$

In: -21.129 ± 208.269 $\chi^2/\text{NDF}: 35.6/30$

Out: -807.562 ± 199.856 $\chi^2/\text{NDF}: 74.9/35$

All: -430.550 ± 144.202 $\chi^2/\text{NDF}: 117.9/66$

asym_sam_3748_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1080.054 ± 0.297 χ^2/NDF : 1053475.0/15

Left Out: 827.568 ± 0.163 χ^2/NDF : 907900.2/16

Right Out: 1044.717 ± 0.284 χ^2/NDF : 1201825.8/18

Left In: 829.612 ± 0.170 χ^2/NDF : 735864.7/14

Left: 828.549 ± 0.118 χ^2/NDF : 1643840.5/31

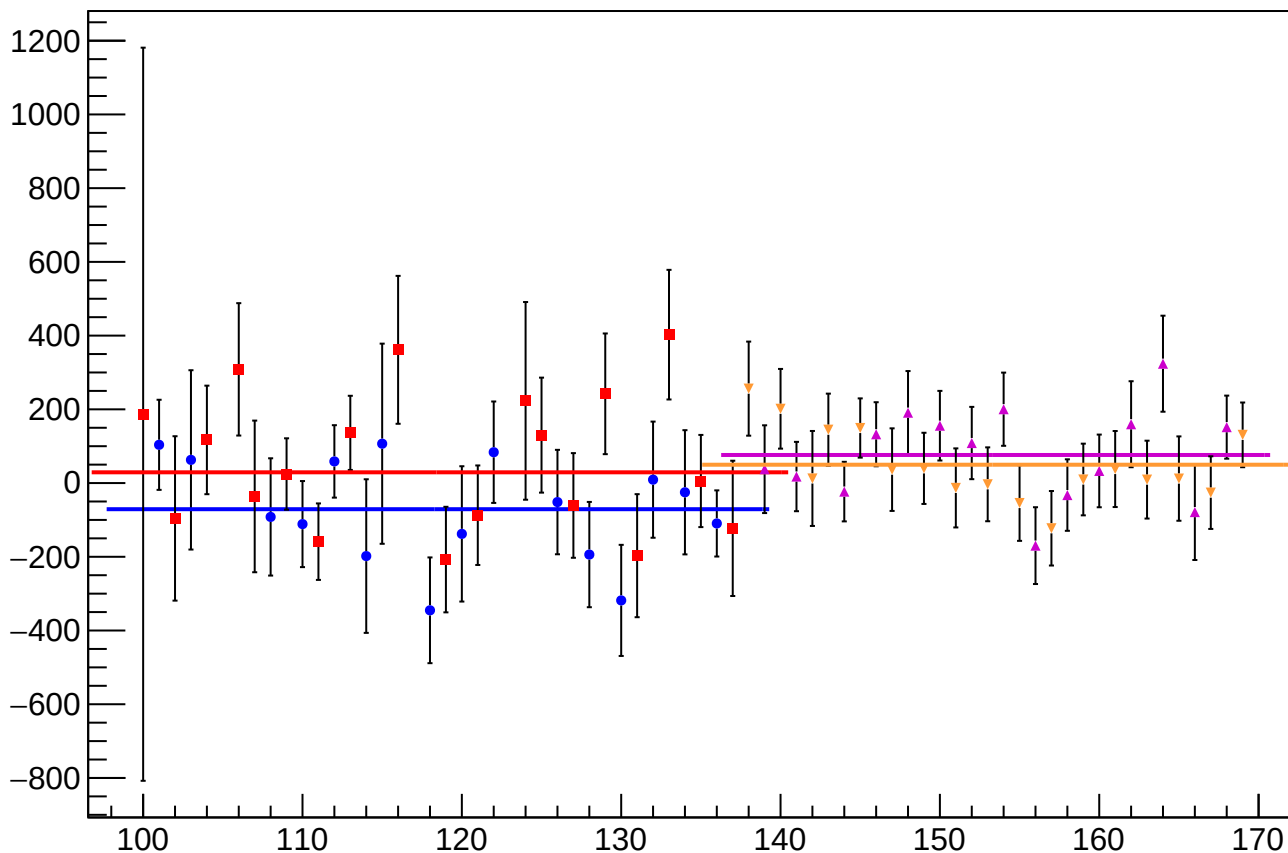
Right: 1061.613 ± 0.205 χ^2/NDF : 2262703.7/34

In: 891.318 ± 0.147 χ^2/NDF : 2326321.0/30

Out: 881.337 ± 0.141 χ^2/NDF : 2549598.2/35

All: 886.122 ± 0.102 χ^2/NDF : 4878310.4/66

eigen_cor_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -70.903 $\pm$ 35.122 χ^2 /NDF: 14.1/15

Left Out: 49.766 $\pm$ 24.756 χ^2 /NDF:13.6/16

Right Out: 29.159 $\pm$ 34.247 χ^2 /NDF: 24.0/18

Left In: 76.182 $\pm$ 25.864 χ^2 /NDF:19.2/14

Left: 62.396 $\pm$ 17.884 χ^2 /NDF: 33.3/31

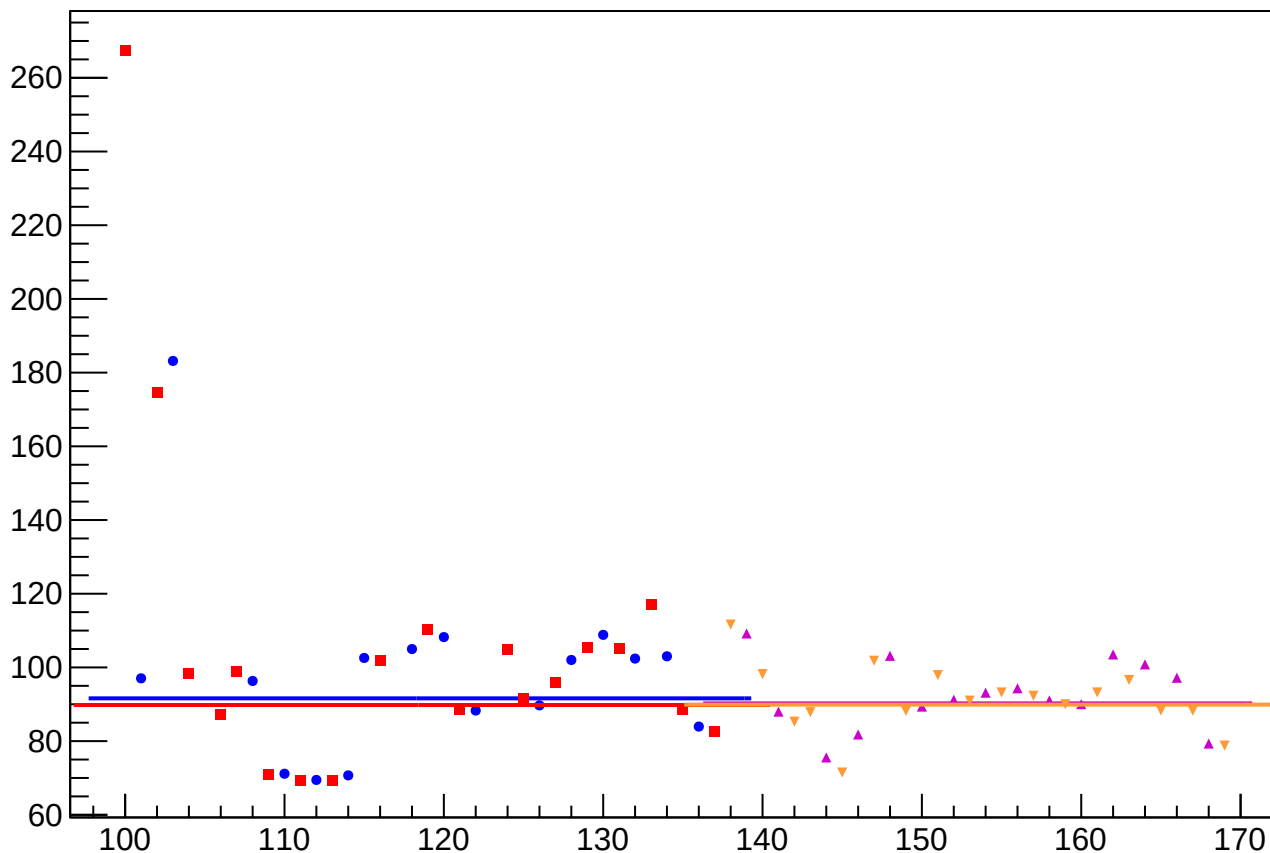
Right: -19.610 $\pm$ 24.520 χ^2 /NDF: 42.2/34

In: 24.466 $\pm$ 20.826 χ^2 /NDF:44.6/30

Out: 42.694 $\pm$ 20.063 χ^2 /NDF:37.8/35

All: 33.920 $\pm$ 14.449 χ^2 /NDF: 82.8/66

eigen_cor_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 91.608 $\pm$ 0.025 χ^2 /NDF: 580675.9/15

Left Out: 89.907 $\pm$ 0.018 χ^2 /NDF: 259267.3/16

Right Out: 89.807 $\pm$ 0.024 χ^2 /NDF: 746833.4/18

Left In: 90.242 $\pm$ 0.018 χ^2 /NDF: 245445.6/14

Left: 90.067 $\pm$ 0.013 χ^2 /NDF: 504888.3/31

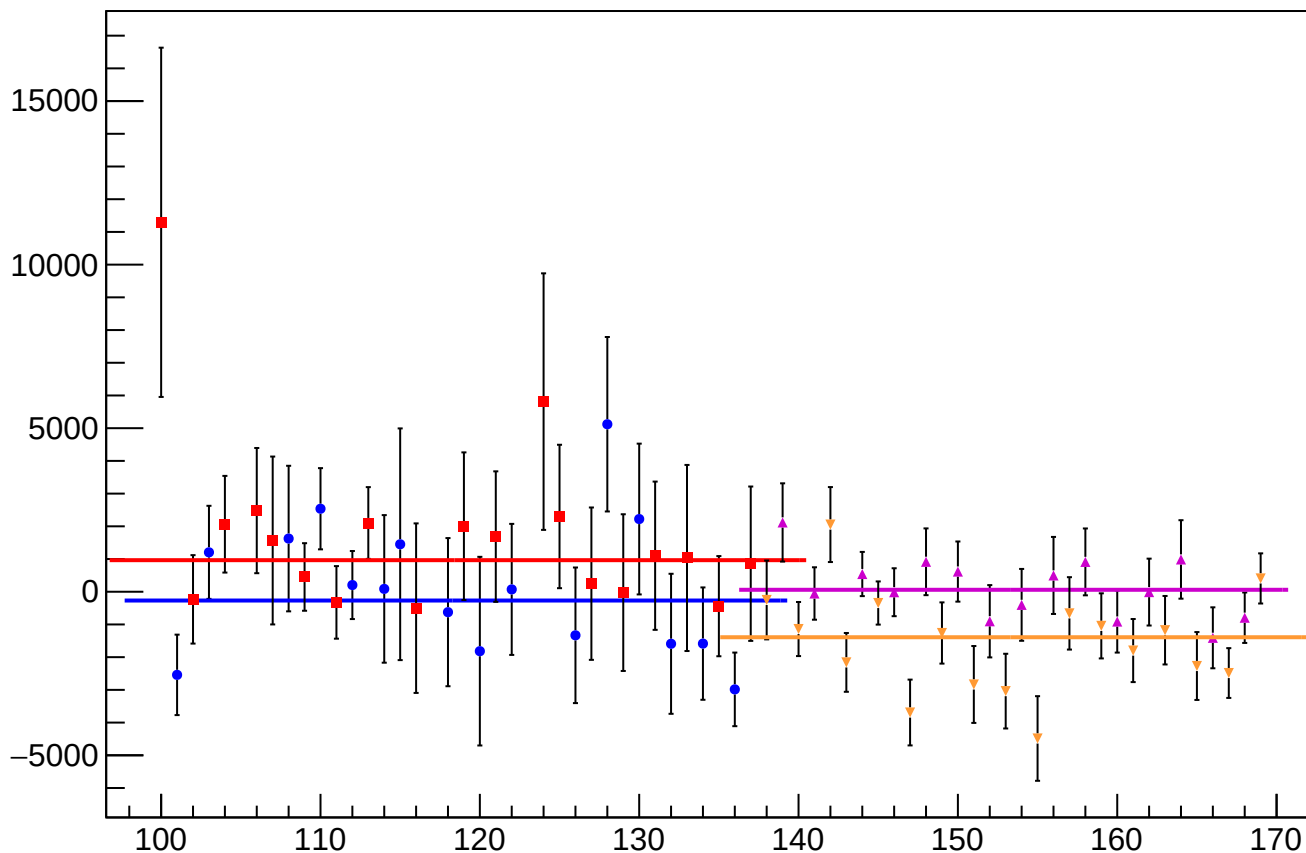
Right: 90.685 $\pm$ 0.017 χ^2 /NDF: 1330205.1/34

In: 90.722 $\pm$ 0.015 χ^2 /NDF: 828082.6/30

Out: 89.873 $\pm$ 0.014 χ^2 /NDF: 1006111.9/35

All: 90.282 $\pm$ 0.010 χ^2 /NDF: 1835921.8/66

asym_sam_3748_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -268.506 ± 419.581 $\chi^2/\text{NDF}: 23.4/15$

Left Out: -1390.918 ± 230.408 $\chi^2/\text{NDF}: 36.9/16$

Right Out: 964.986 ± 401.633 $\chi^2/\text{NDF}: 12.1/18$

Left In: 59.749 ± 239.911 $\chi^2/\text{NDF}: 11.7/14$

Left: -694.886 ± 166.181 $\chi^2/\text{NDF}: 67.6/31$

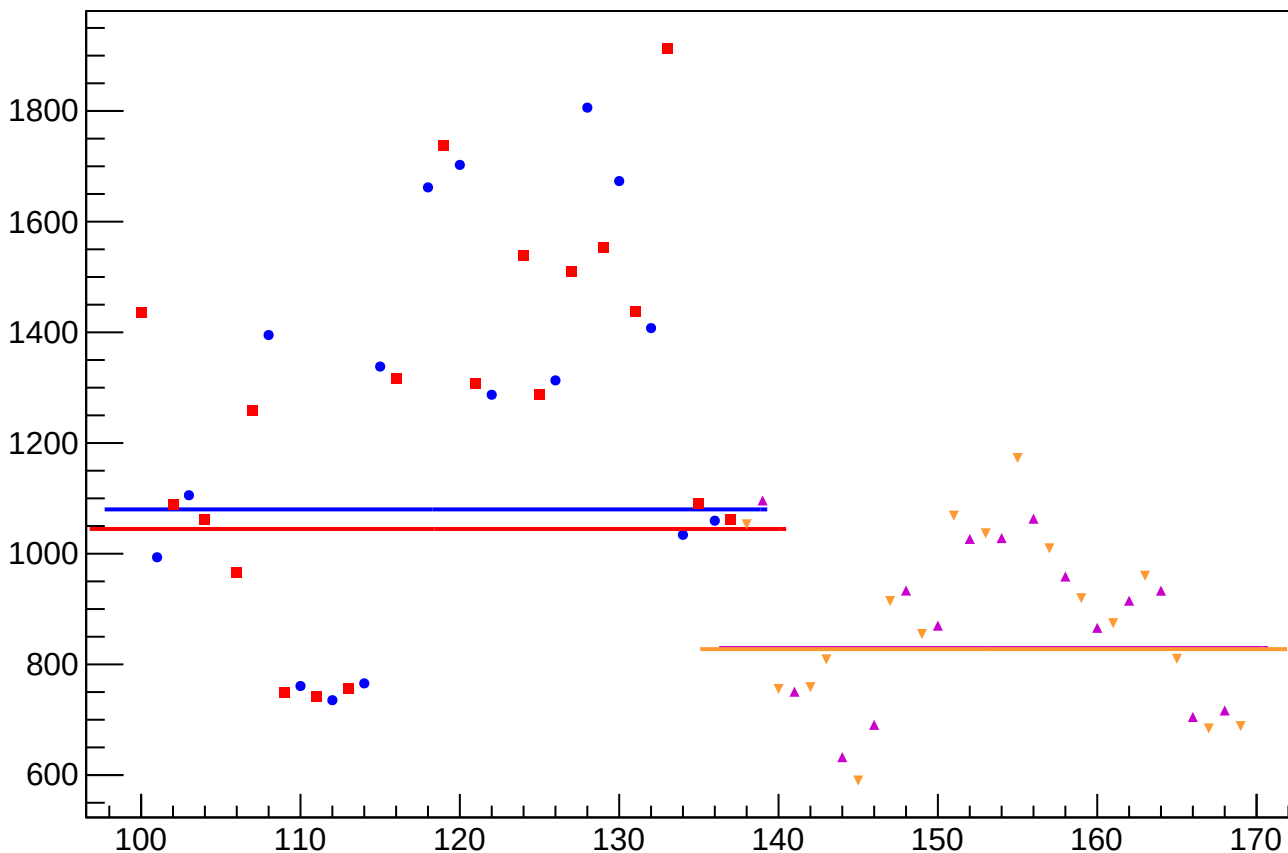
Right: 375.186 ± 290.135 $\chi^2/\text{NDF}: 40.1/34$

In: -21.129 ± 208.269 $\chi^2/\text{NDF}: 35.6/30$

Out: -807.562 ± 199.856 $\chi^2/\text{NDF}: 74.9/35$

All: -430.550 ± 144.202 $\chi^2/\text{NDF}: 117.9/66$

asym_sam_3748_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1080.054+/-0.297 χ^2/NDF : 1053475.0/15

Left Out: 827.568+/-0.163 χ^2/NDF : 907900.2/16

Right Out: 1044.717+/-0.284 χ^2/NDF : 1201825.8/18

Left In: 829.612+/-0.170 χ^2/NDF : 735864.7/14

Left: 828.549+/-0.118 χ^2/NDF : 1643840.5/31

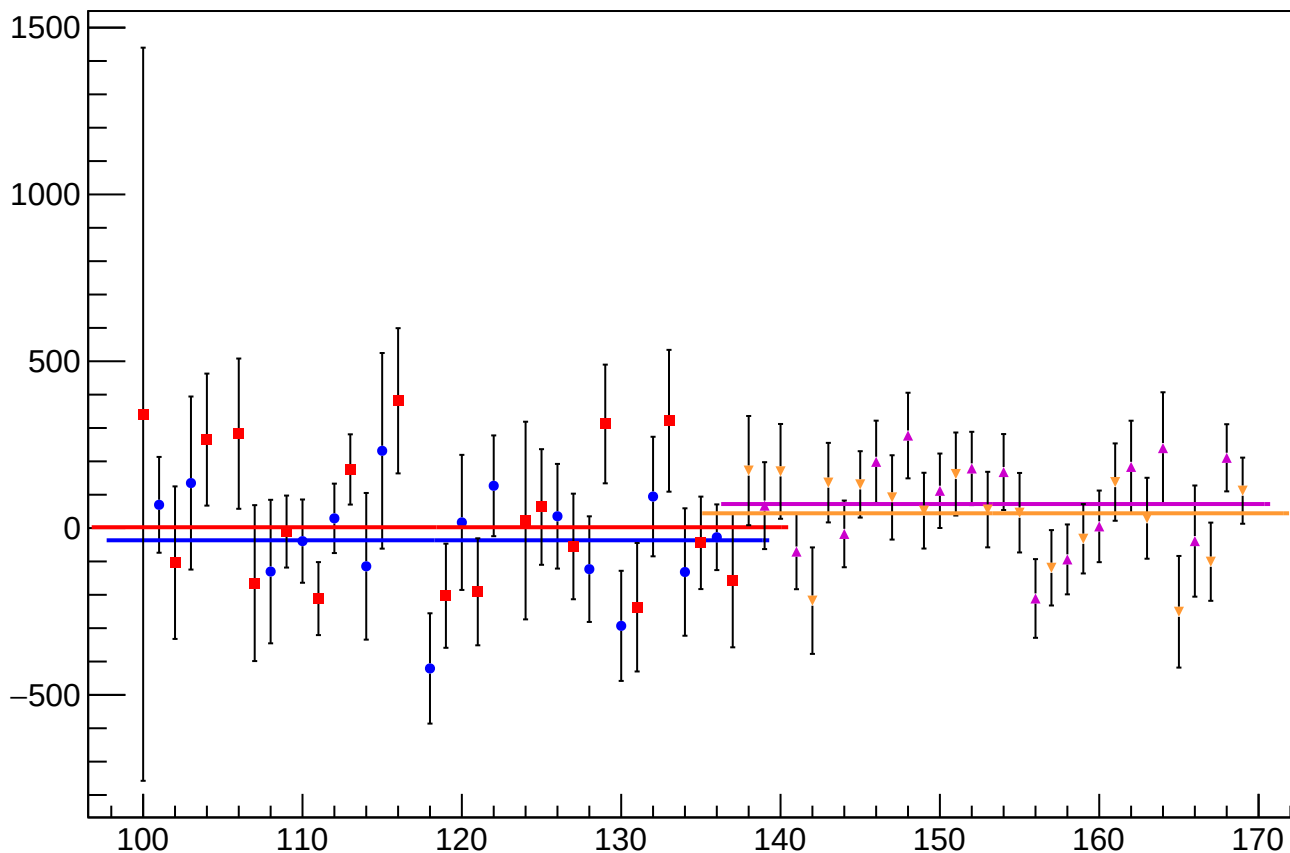
Right: 1061.613+/-0.205 χ^2/NDF : 2262703.7/34

In: 891.318+/-0.147 χ^2/NDF : 2326321.0/30

Out: 881.337+/-0.141 χ^2/NDF : 2549598.2/35

All: 886.122+/-0.102 χ^2/NDF : 4878310.4/66

dit_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -36.590 ± 38.991 χ^2/NDF : 12.9/15

Left Out: 44.346 ± 29.182 χ^2/NDF : 14.9/16

Right Out: 2.568 ± 38.165 χ^2/NDF : 24.7/18

Left In: 72.084 ± 30.471 χ^2/NDF : 20.4/14

Left: 57.616 ± 21.076 χ^2/NDF : 35.8/31

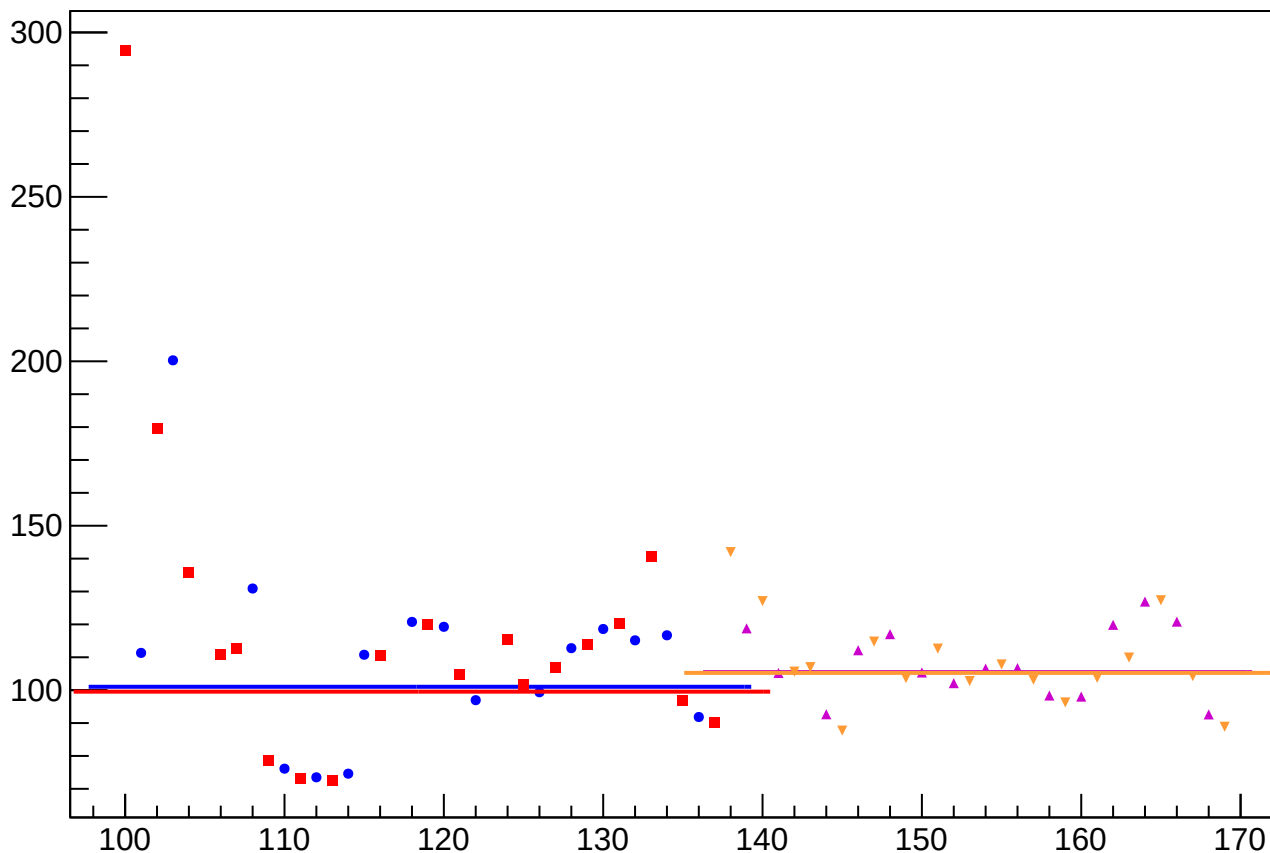
Right: -16.592 ± 27.274 χ^2/NDF : 38.1/34

In: 30.879 ± 24.009 χ^2/NDF : 38.2/30

Out: 28.932 ± 23.182 χ^2/NDF : 40.4/35

All: 29.871 ± 16.677 χ^2/NDF : 78.6/66

dit_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 101.031 $\pm$ 0.028 χ^2 /NDF: 716095.9/15

Left Out: 105.262 $\pm$ 0.021 χ^2 /NDF: 339830.9/16

Right Out: 99.547 $\pm$ 0.027 χ^2 /NDF: 880497.8/18

Left In: 105.500 $\pm$ 0.022 χ^2 /NDF: 200969.7/14

Left: 105.376 $\pm$ 0.015 χ^2 /NDF: 540864.1/31

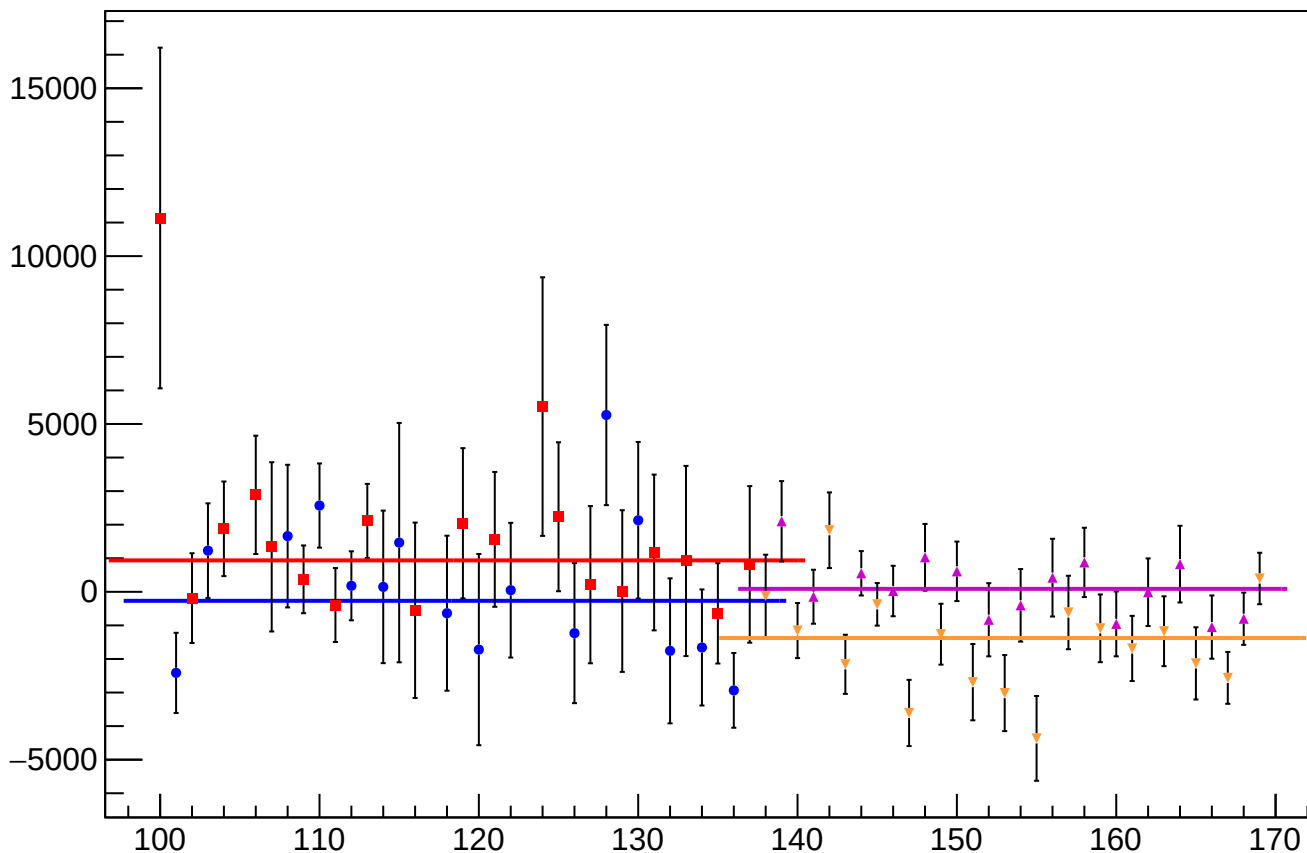
Right: 100.273 $\pm$ 0.019 χ^2 /NDF: 1598073.3/34

In: 103.805 $\pm$ 0.017 χ^2 /NDF: 933374.3/30

Out: 103.154 $\pm$ 0.016 χ^2 /NDF: 1248630.3/35

All: 103.468 $\pm$ 0.012 χ^2 /NDF: 2182767.6/66

asym_sam_3748_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -267.886 ± 417.061 $\chi^2/\text{NDF}: 23.5/15$

Left Out: -1375.819 ± 228.322 $\chi^2/\text{NDF}: 35.6/16$

Right Out: 936.734 ± 396.234 $\chi^2/\text{NDF}: 13.1/18$

Left In: 88.145 ± 238.572 $\chi^2/\text{NDF}: 10.6/14$

Left: -675.960 ± 164.953 $\chi^2/\text{NDF}: 65.9/31$

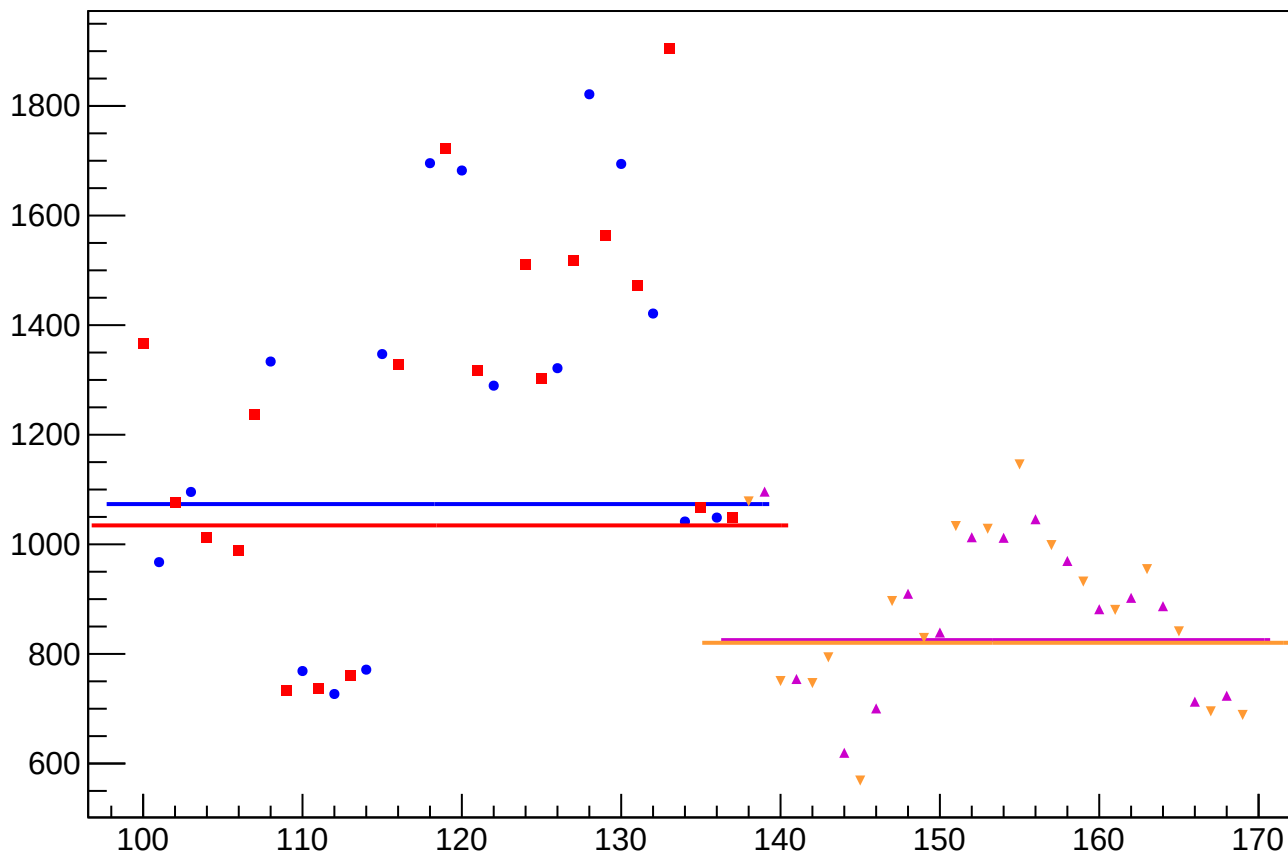
Right: 365.251 ± 287.261 $\chi^2/\text{NDF}: 41.0/34$

In: 0.367 ± 207.085 $\chi^2/\text{NDF}: 34.6/30$

Out: -799.365 ± 197.829 $\chi^2/\text{NDF}: 74.3/35$

All: -417.770 ± 143.046 $\chi^2/\text{NDF}: 116.7/66$

asym_sam_3748_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1073.456+/-0.295 χ^2/NDF : 1077055.9/15

Left Out: 820.331+/-0.161 χ^2/NDF : 941015.5/16

Right Out: 1034.535+/-0.280 χ^2/NDF : 1229344.1/18

Left In: 825.204+/-0.169 χ^2/NDF : 699172.5/14

Left: 822.661+/-0.117 χ^2/NDF : 1640623.5/31

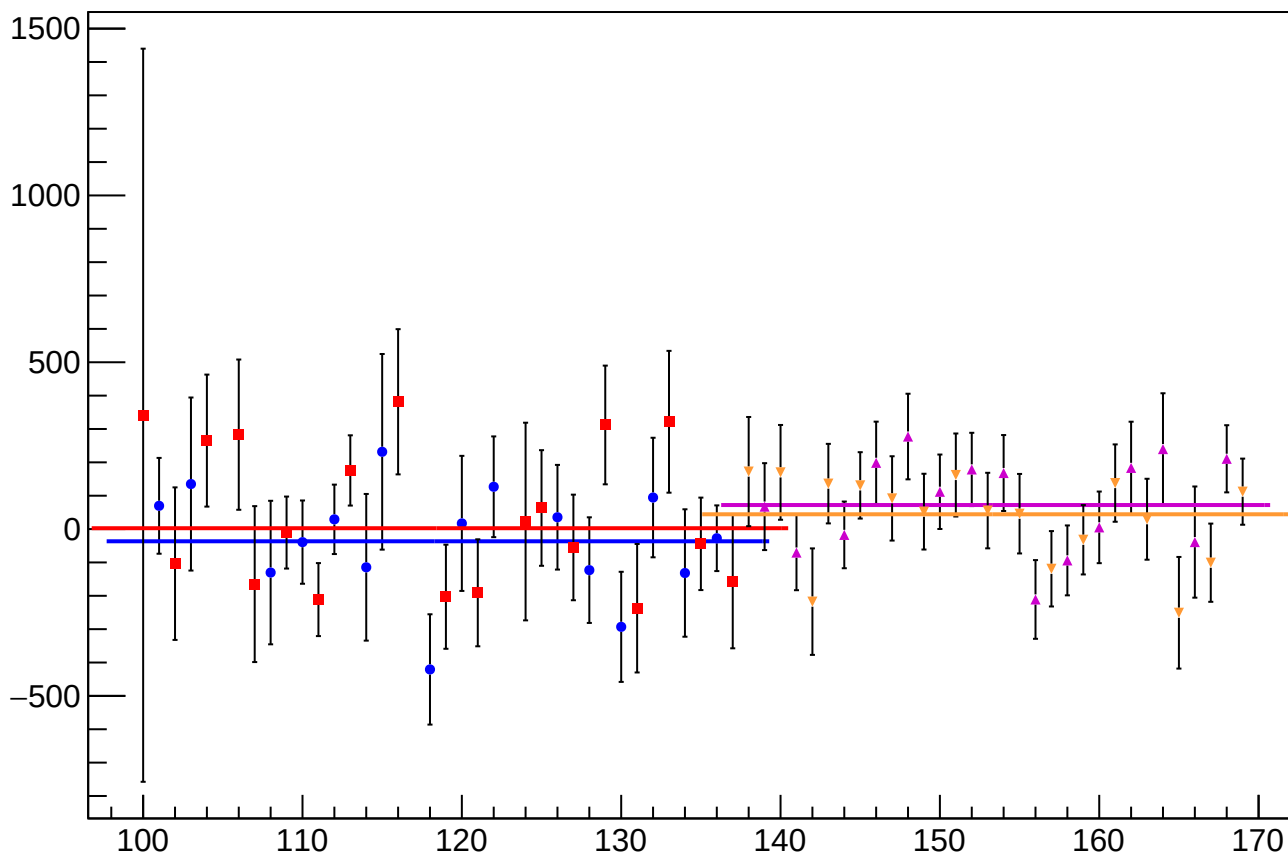
Right: 1052.999+/-0.203 χ^2/NDF : 2315554.6/34

In: 886.409+/-0.146 χ^2/NDF : 2310143.4/30

Out: 873.726+/-0.140 χ^2/NDF : 2609155.2/35

All: 879.778+/-0.101 χ^2/NDF : 4923220.9/66

eigen_dit_asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: -36.589 ± 38.991 χ^2/NDF : 12.9/15

Left Out: 44.348 ± 29.182 χ^2/NDF : 14.9/16

Right Out: 2.566 ± 38.165 χ^2/NDF : 24.7/18

Left In: 72.083 ± 30.471 χ^2/NDF : 20.4/14

Left: 57.616 ± 21.076 χ^2/NDF : 35.8/31

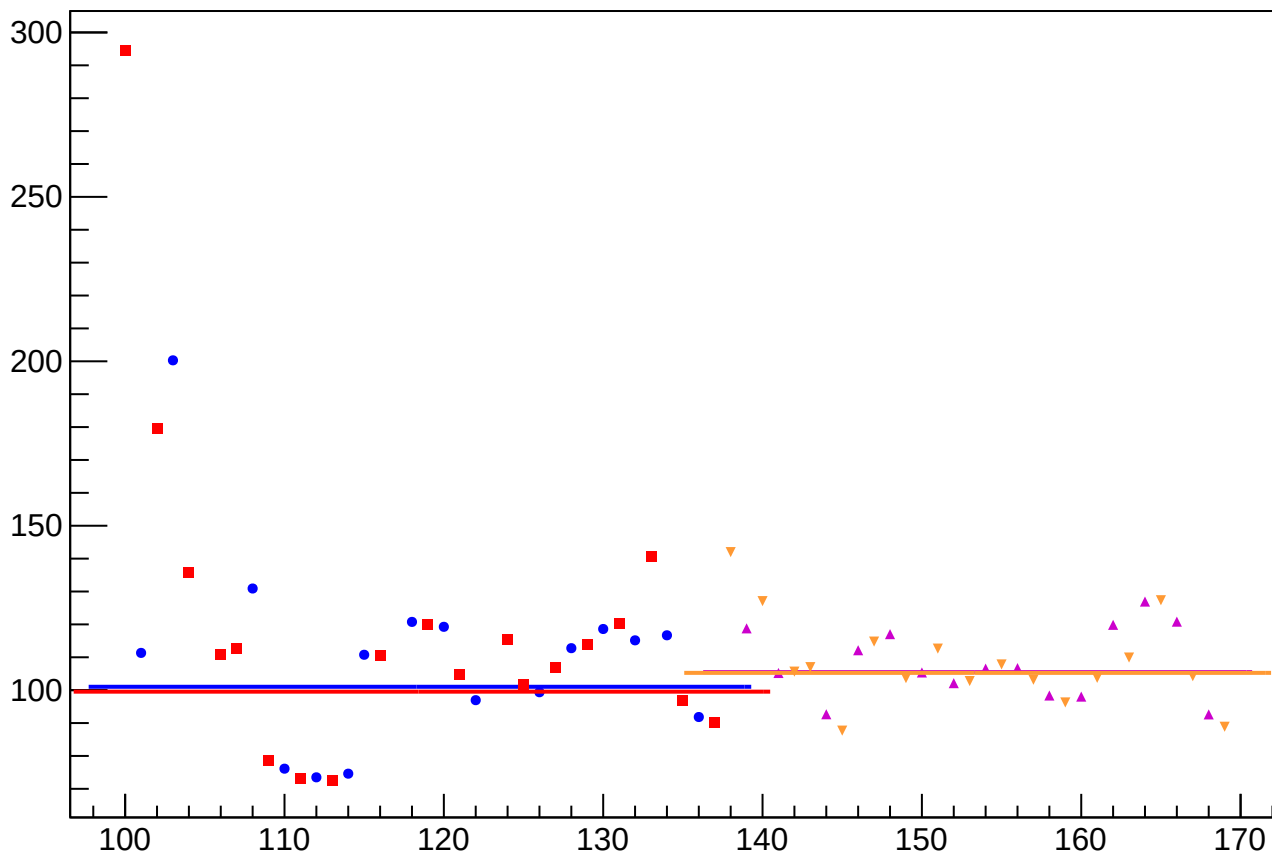
Right: -16.593 ± 27.274 χ^2/NDF : 38.1/34

In: 30.879 ± 24.009 χ^2/NDF : 38.2/30

Out: 28.932 ± 23.182 χ^2/NDF : 40.4/35

All: 29.872 ± 16.677 χ^2/NDF : 78.6/66

eigen_dit_asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 101.031 $\pm$ 0.028 χ^2 /NDF: 716094.5/15

Left Out: 105.263 $\pm$ 0.021 χ^2 /NDF: 339826.8/16

Right Out: 99.547 $\pm$ 0.027 χ^2 /NDF: 880499.8/18

Left In: 105.500 $\pm$ 0.022 χ^2 /NDF: 200969.9/14

Left: 105.376 $\pm$ 0.015 χ^2 /NDF: 540860.0/31

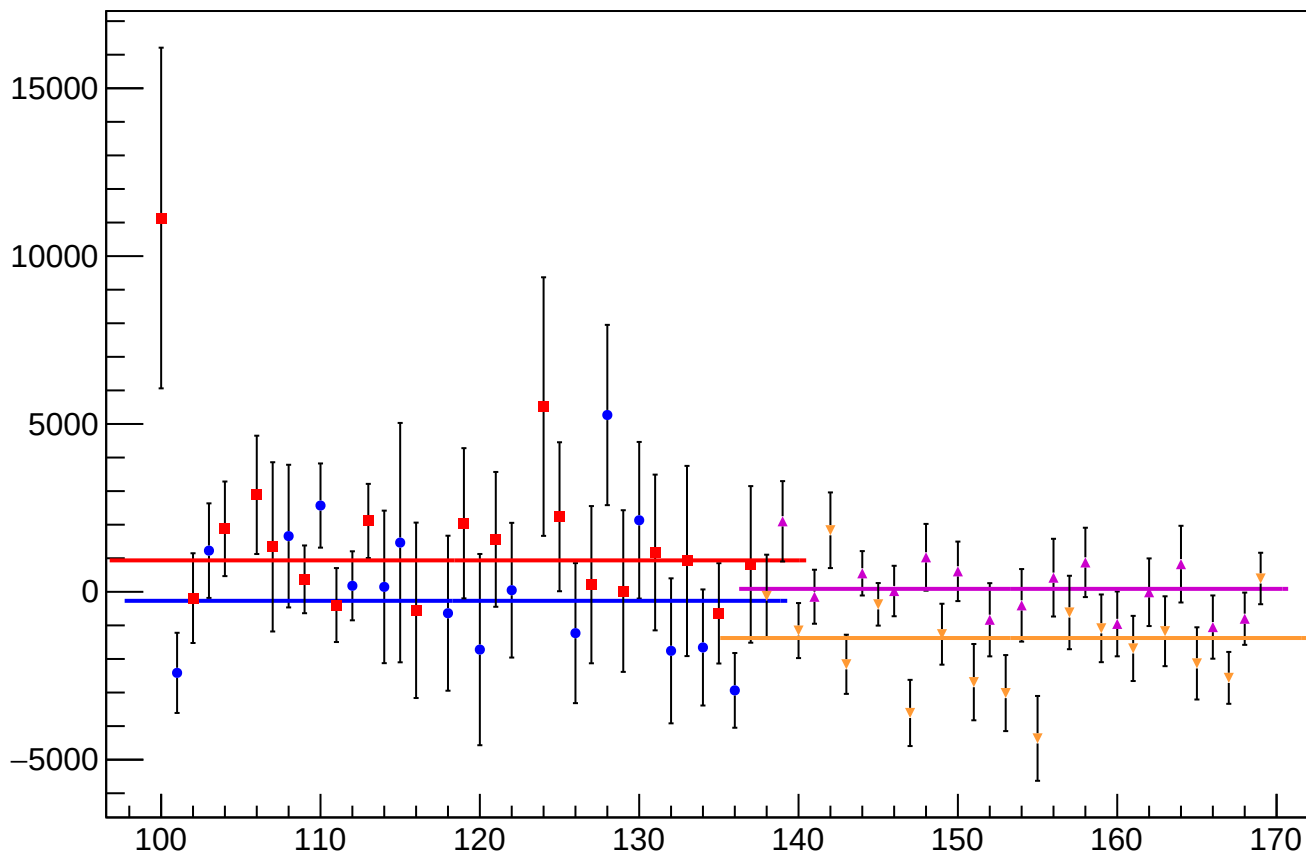
Right: 100.273 $\pm$ 0.019 χ^2 /NDF: 1598074.0/34

In: 103.806 $\pm$ 0.017 χ^2 /NDF: 933374.6/30

Out: 103.154 $\pm$ 0.016 χ^2 /NDF: 1248630.5/35

All: 103.468 $\pm$ 0.012 χ^2 /NDF: 2182768.0/66

asym_sam_3748_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -267.885 ± 417.061 $\chi^2/\text{NDF}: 23.5/15$

Left Out: -1375.817 ± 228.322 $\chi^2/\text{NDF}: 35.6/16$

Right Out: 936.732 ± 396.234 $\chi^2/\text{NDF}: 13.1/18$

Left In: 88.144 ± 238.571 $\chi^2/\text{NDF}: 10.6/14$

Left: -675.960 ± 164.952 $\chi^2/\text{NDF}: 65.9/31$

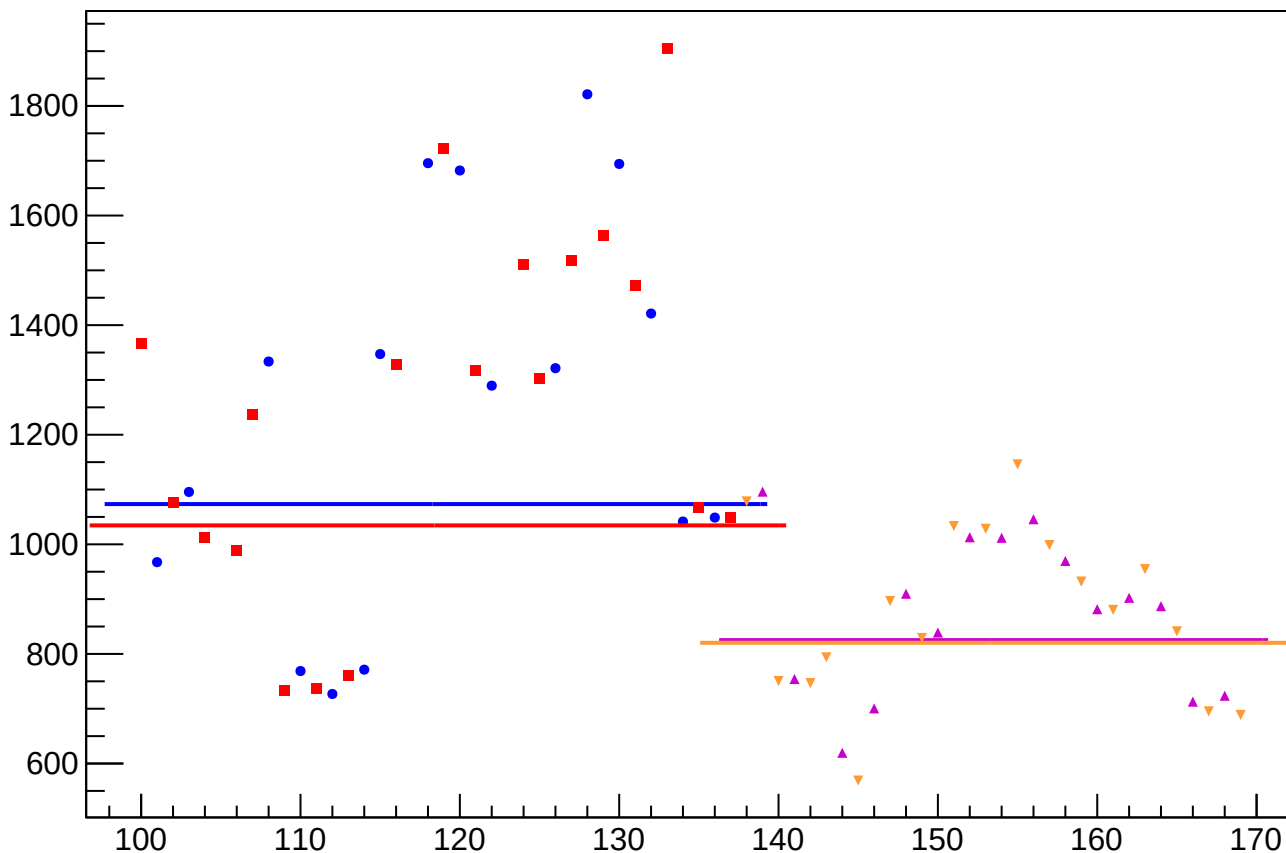
Right: 365.251 ± 287.260 $\chi^2/\text{NDF}: 41.0/34$

In: 0.367 ± 207.084 $\chi^2/\text{NDF}: 34.6/30$

Out: -799.364 ± 197.828 $\chi^2/\text{NDF}: 74.3/35$

All: -417.770 ± 143.046 $\chi^2/\text{NDF}: 116.7/66$

asym_sam_3748_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1073.454 ± 0.295 $\chi^2/\text{NDF}: 1077061.8/15$

Left Out: 820.330 ± 0.161 $\chi^2/\text{NDF}: 941020.9/16$

Right Out: 1034.533 ± 0.280 $\chi^2/\text{NDF}: 1229346.7/18$

Left In: 825.203 ± 0.169 $\chi^2/\text{NDF}: 699173.3/14$

Left: 822.659 ± 0.117 $\chi^2/\text{NDF}: 1640629.7/31$

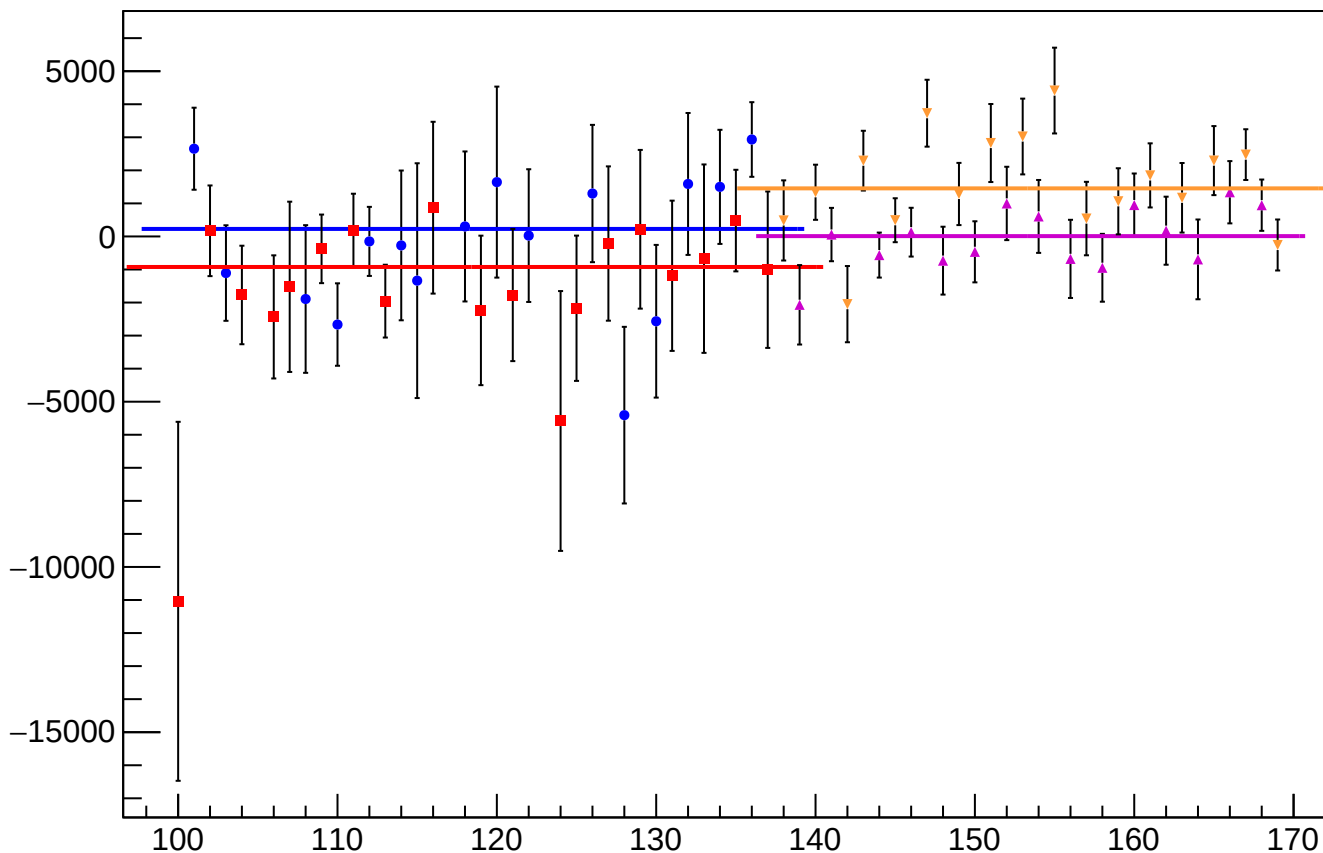
Right: 1052.997 ± 0.203 $\chi^2/\text{NDF}: 2315562.9/34$

In: 886.408 ± 0.146 $\chi^2/\text{NDF}: 2310148.9/30$

Out: 873.725 ± 0.140 $\chi^2/\text{NDF}: 2609163.6/35$

All: 879.776 ± 0.101 $\chi^2/\text{NDF}: 4923234.9/66$

asym_sam_3748_avg_mean vs Slug, Sign Corrected



Right In: 227.502 $\pm$ 421.838 χ^2 /NDF: 24.4/15

Left Out: 1454.583 $\pm$ 231.860 χ^2 /NDF:34.8/16

Right Out: -923.649 $\pm$ 403.102 χ^2 /NDF: 11.2/18

Left In: 9.948 $\pm$ 241.428 χ^2 /NDF:11.6/14

Left: 761.461 $\pm$ 167.230 χ^2 /NDF: 65.0/31

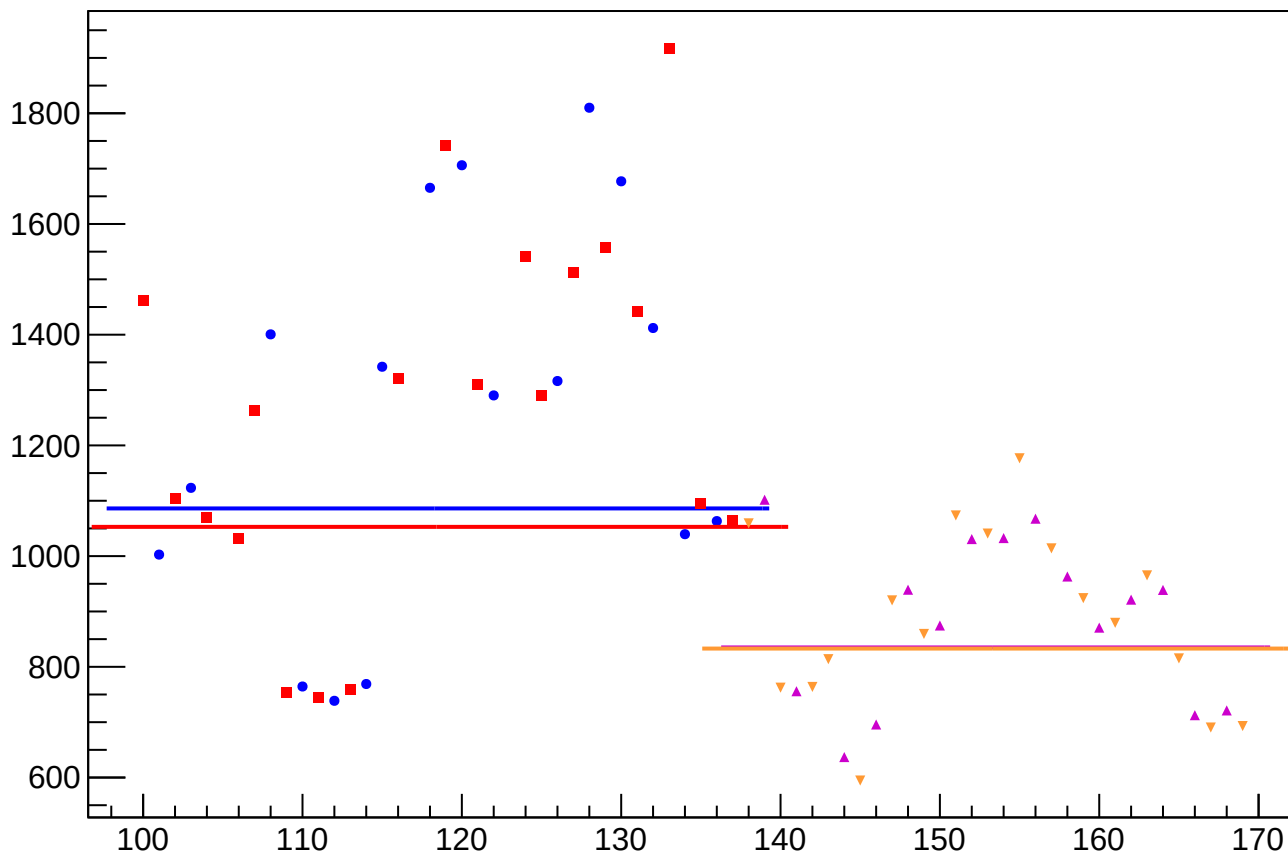
Right: -374.204 $\pm$ 291.435 χ^2 /NDF: 39.5/34

In: 63.626 $\pm$ 209.537 χ^2 /NDF:36.2/30

Out: 863.365 $\pm$ 200.984 χ^2 /NDF:72.1/35

All: 480.151 $\pm$ 145.047 χ^2 /NDF: 115.9/66

asym_sam_3748_avg_rms vs Slug, Sign Corrected



Right In: 1086.137 $\pm$ 0.298 χ^2 /NDF: 1047479.6/15

Left Out: 832.987 $\pm$ 0.164 χ^2 /NDF: 895899.7/16

Right Out: 1052.831 $\pm$ 0.285 χ^2 /NDF: 1194420.8/18

Left In: 835.045 $\pm$ 0.171 χ^2 /NDF: 725983.0/14

Left: 833.974 $\pm$ 0.118 χ^2 /NDF: 1621958.3/31

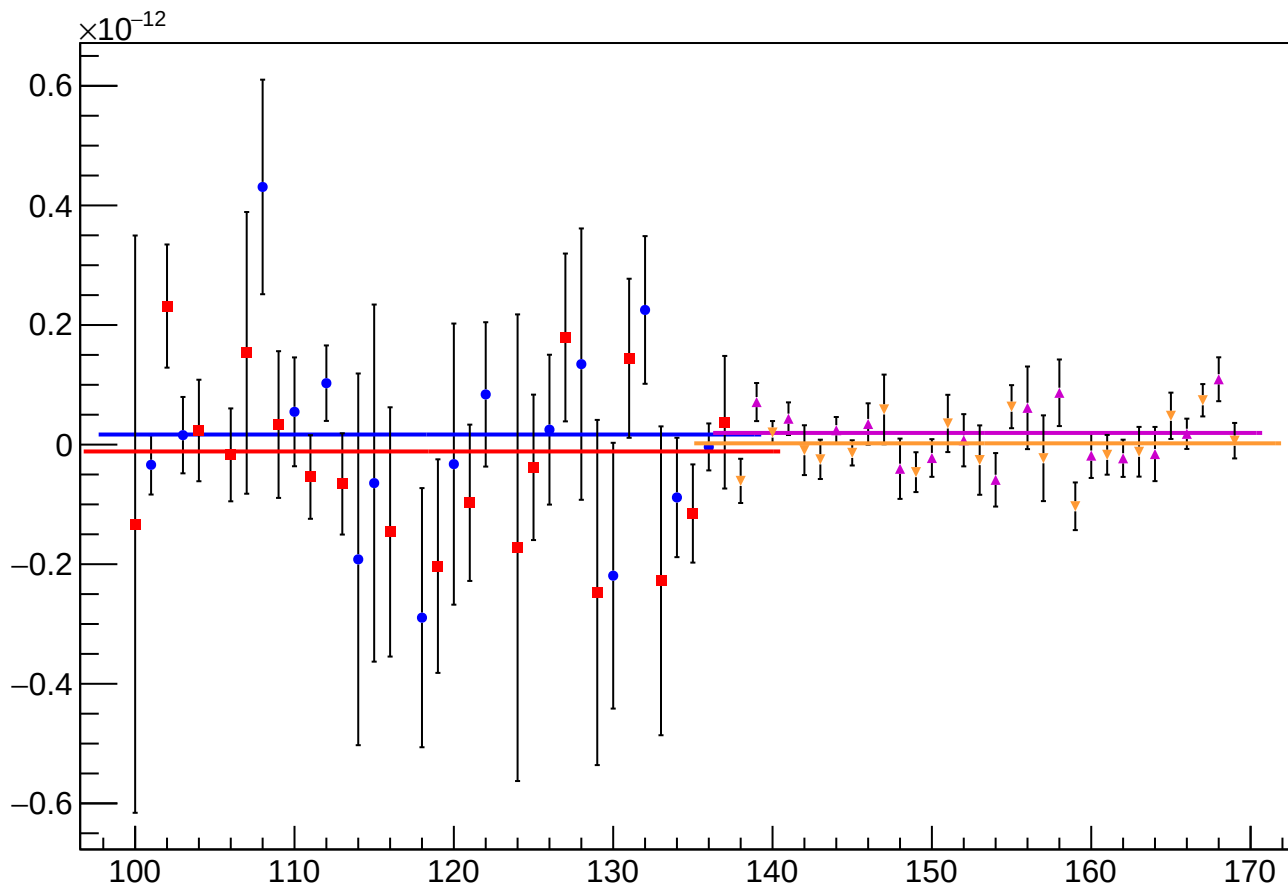
Right: 1068.728 $\pm$ 0.206 χ^2 /NDF: 2248417.5/34

In: 896.998 $\pm$ 0.148 χ^2 /NDF: 2307232.9/30

Out: 887.639 $\pm$ 0.142 χ^2 /NDF: 2537315.0/35

All: 892.124 $\pm$ 0.103 χ^2 /NDF: 4846626.0/66

asym_sam_3748_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 16.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 27.8/16

Right Out: -0.000+/-0.000 χ^2/NDF : 15.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 21.2/14

Left: 0.000+/-0.000 χ^2/NDF : 51.2/31

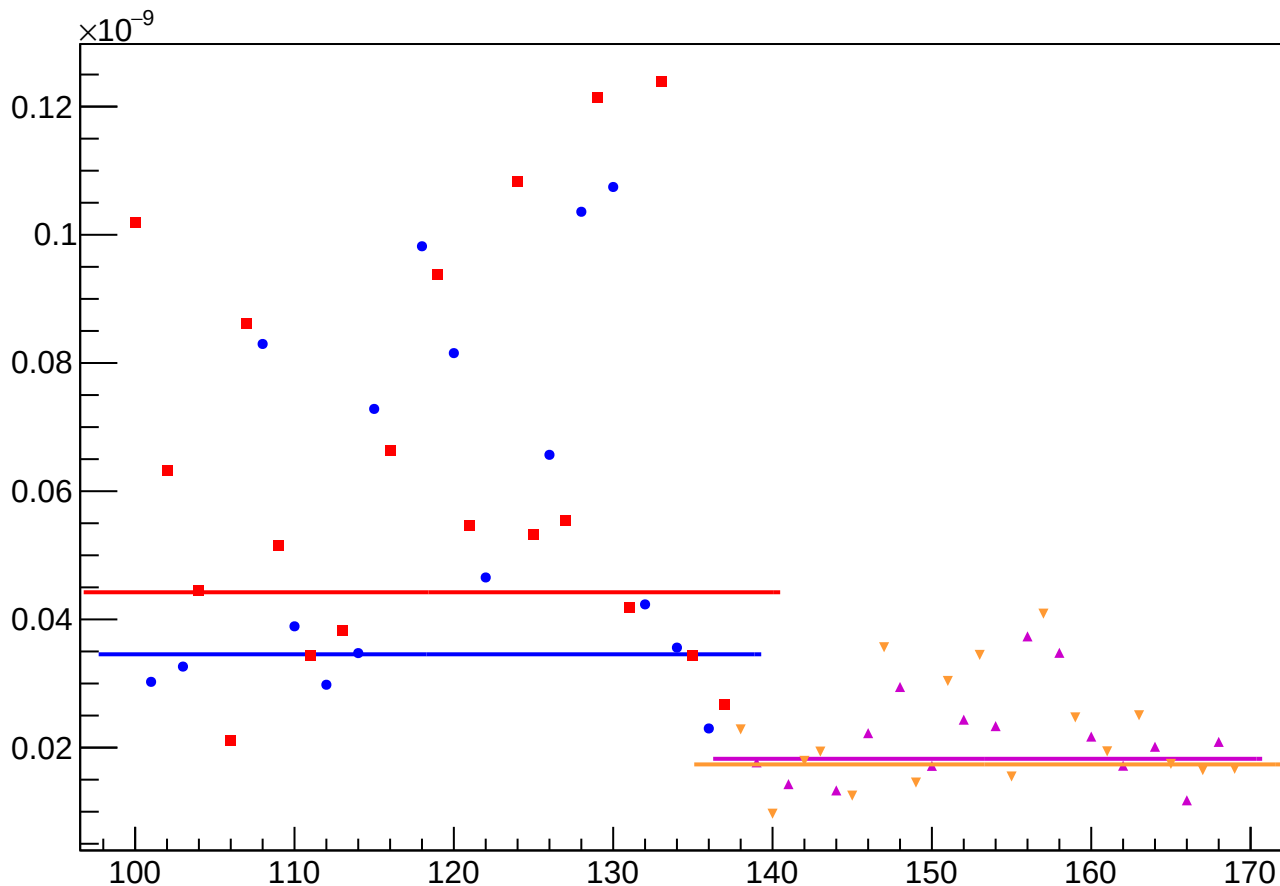
Right: 0.000+/-0.000 χ^2/NDF : 33.4/34

In: 0.000+/-0.000 χ^2/NDF : 38.2/30

Out: 0.000+/-0.000 χ^2/NDF : 43.9/35

All: 0.000+/-0.000 χ^2/NDF : 84.6/66

asym_sam_3748_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1188815.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1378161.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1073061.4/18

Left In: 0.000+/-0.000 χ^2/NDF : 828127.1/14

Left: 0.000+/-0.000 χ^2/NDF : 2216934.7/31

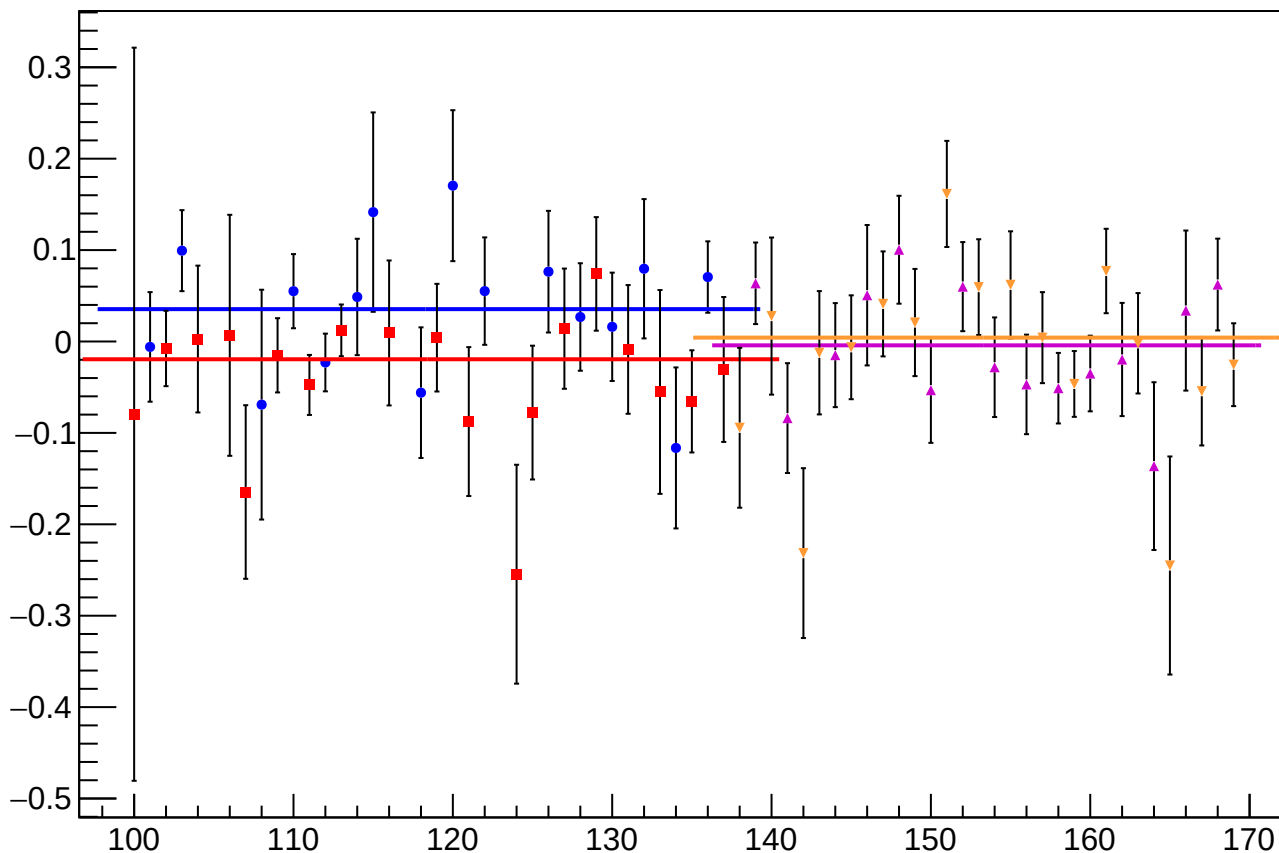
Right: 0.000+/-0.000 χ^2/NDF : 2418011.3/34

In: 0.000+/-0.000 χ^2/NDF : 2974875.3/30

Out: 0.000+/-0.000 χ^2/NDF : 4280714.0/35

All: 0.000+/-0.000 χ^2/NDF : 7270430.3/66

asym_sam_3748_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.014 $\chi^2/\text{NDF}: 16.9/15$

Left Out: 0.004 ± 0.014 $\chi^2/\text{NDF}: 28.0/16$

Right Out: -0.019 ± 0.013 $\chi^2/\text{NDF}: 13.4/18$

Left In: -0.004 ± 0.014 $\chi^2/\text{NDF}: 17.1/14$

Left: 0.000 ± 0.010 $\chi^2/\text{NDF}: 45.4/31$

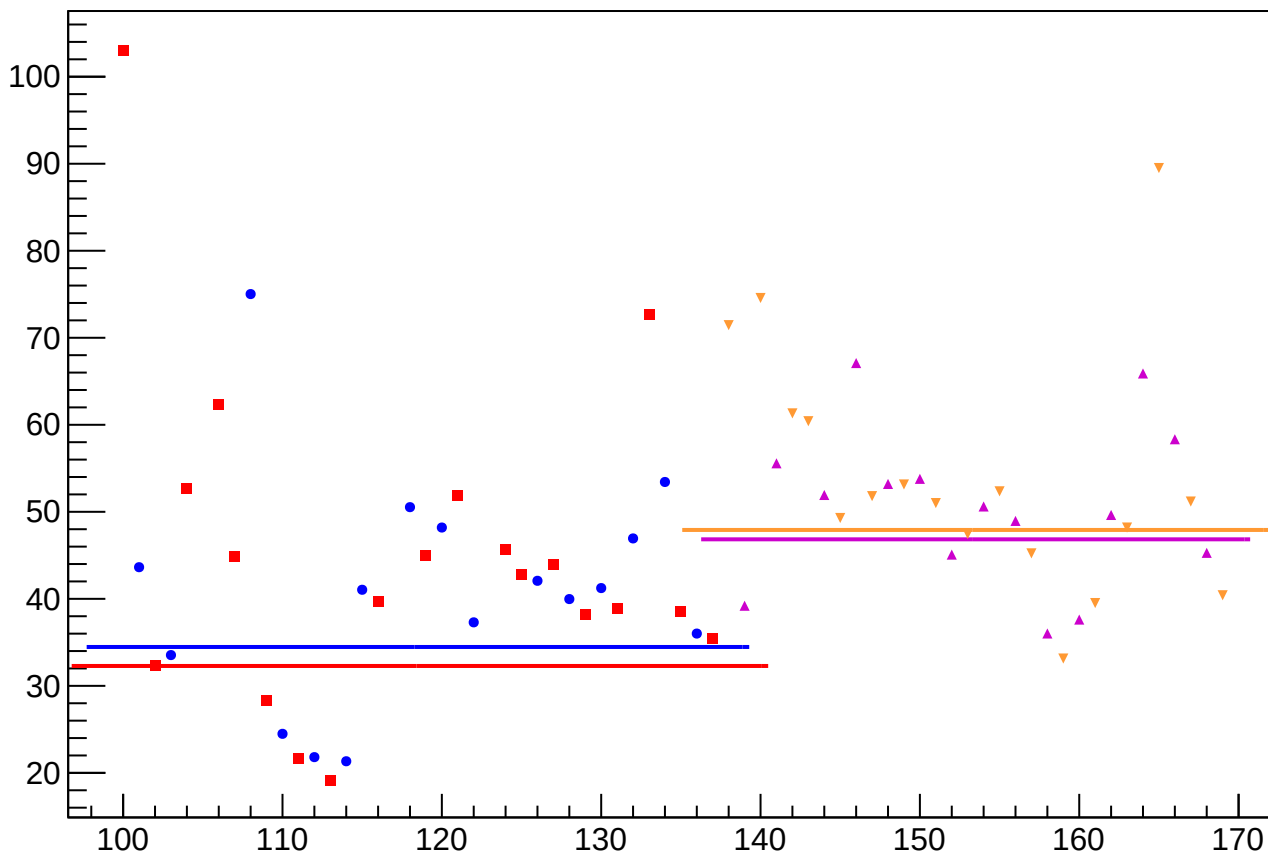
Right: 0.006 ± 0.010 $\chi^2/\text{NDF}: 38.6/34$

In: 0.016 ± 0.010 $\chi^2/\text{NDF}: 38.1/30$

Out: -0.008 ± 0.009 $\chi^2/\text{NDF}: 43.0/35$

All: 0.003 ± 0.007 $\chi^2/\text{NDF}: 84.1/66$

asym_sam_3748_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.468+/-0.010 χ^2/NDF : 1171203.3/15

Left Out: 47.916+/-0.010 χ^2/NDF : 1204179.1/16

Right Out: 32.285+/-0.009 χ^2/NDF : 1672637.0/18

Left In: 46.838+/-0.010 χ^2/NDF : 706642.5/14

Left: 47.386+/-0.007 χ^2/NDF : 1916851.8/31

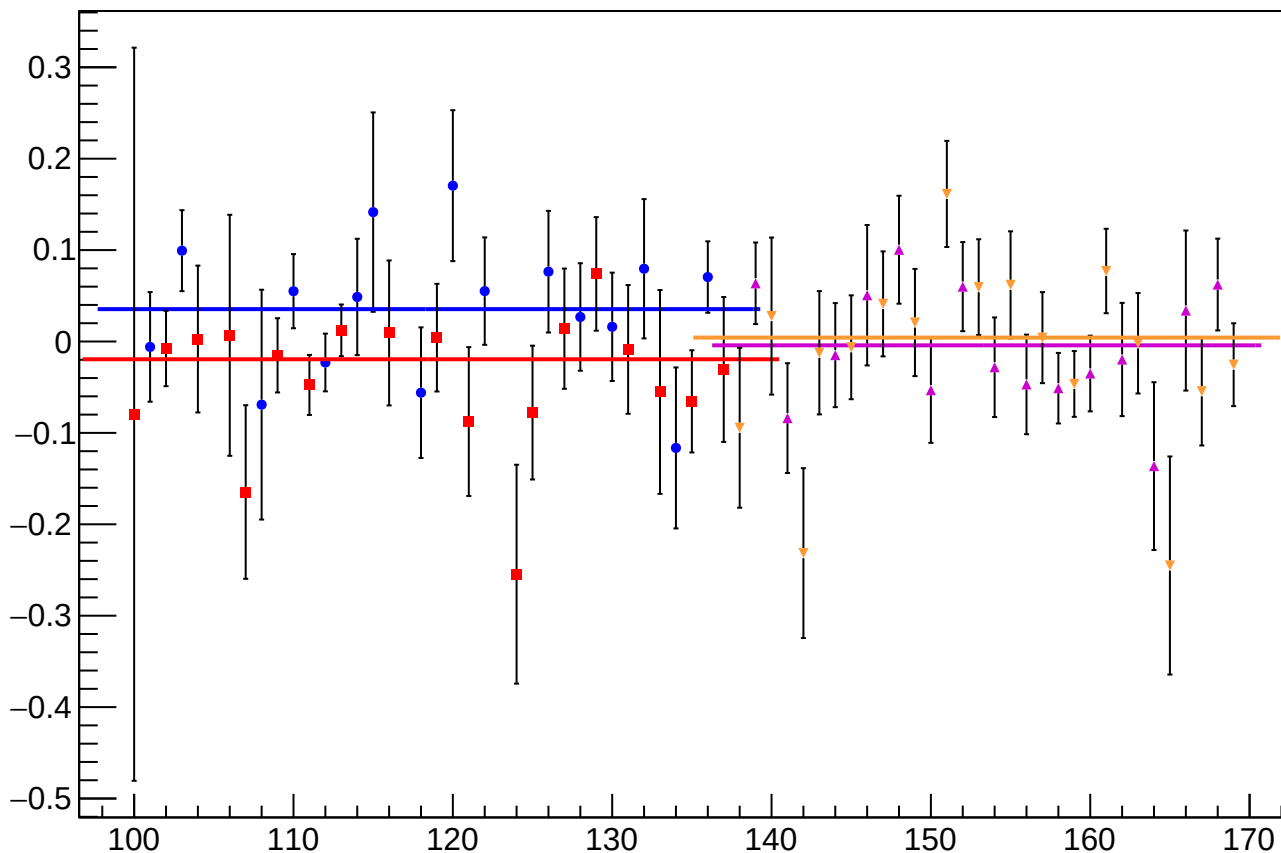
Right: 33.314+/-0.007 χ^2/NDF : 2869944.8/34

In: 40.604+/-0.007 χ^2/NDF : 2664543.3/30

Out: 39.725+/-0.007 χ^2/NDF : 4227512.5/35

All: 40.148+/-0.005 χ^2/NDF : 6900294.2/66

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.014 $\chi^2/\text{NDF}: 16.9/15$

Left Out: 0.004 ± 0.014 $\chi^2/\text{NDF}: 28.0/16$

Right Out: -0.019 ± 0.013 $\chi^2/\text{NDF}: 13.4/18$

Left In: -0.004 ± 0.014 $\chi^2/\text{NDF}: 17.1/14$

Left: 0.000 ± 0.010 $\chi^2/\text{NDF}: 45.4/31$

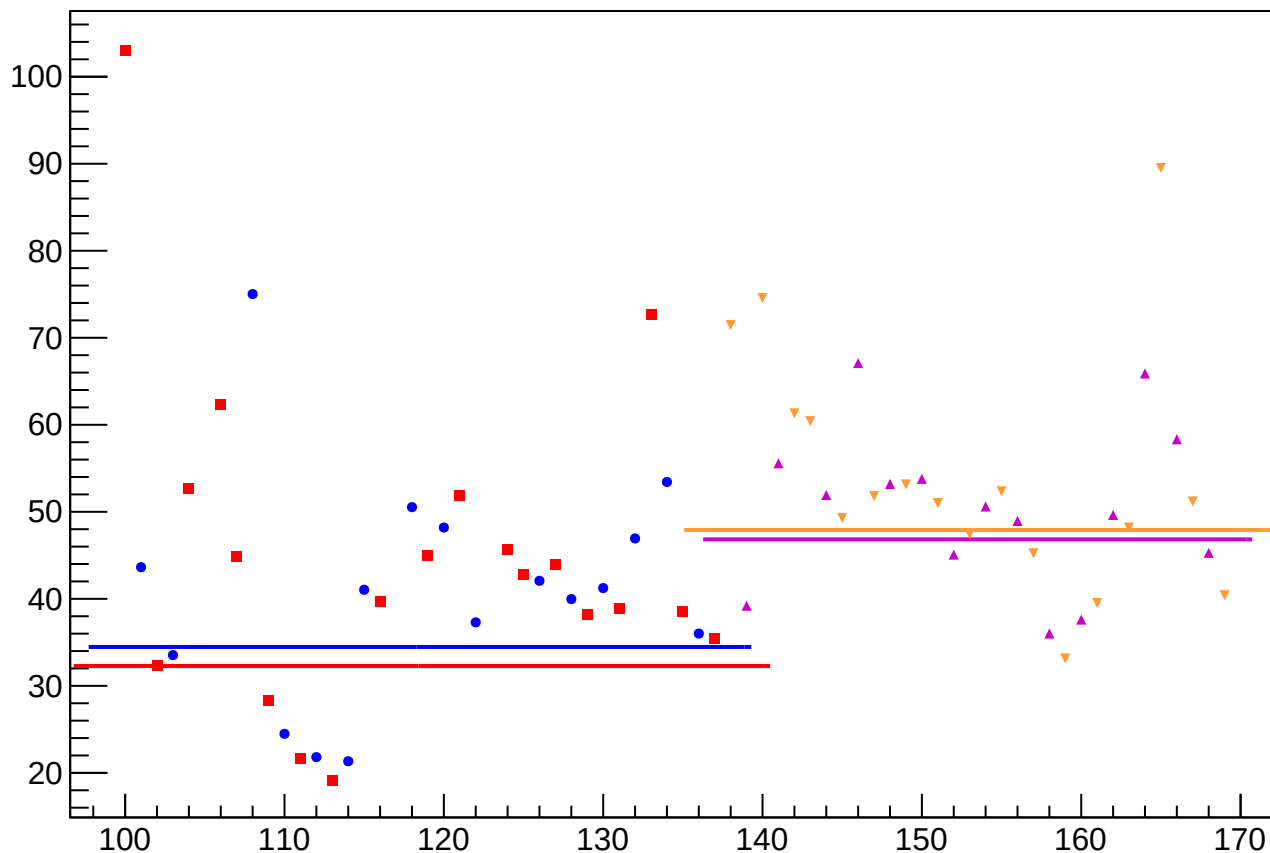
Right: 0.006 ± 0.010 $\chi^2/\text{NDF}: 38.6/34$

In: 0.016 ± 0.010 $\chi^2/\text{NDF}: 38.1/30$

Out: -0.008 ± 0.009 $\chi^2/\text{NDF}: 43.0/35$

All: 0.003 ± 0.007 $\chi^2/\text{NDF}: 84.1/66$

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.468+/-0.010 χ^2/NDF : 1171203.3/15

Left Out: 47.916+/-0.010 χ^2/NDF : 1204179.1/16

Right Out: 32.285+/-0.009 χ^2/NDF : 1672637.0/18

Left In: 46.838+/-0.010 χ^2/NDF : 706642.5/14

Left: 47.386+/-0.007 χ^2/NDF : 1916851.8/31

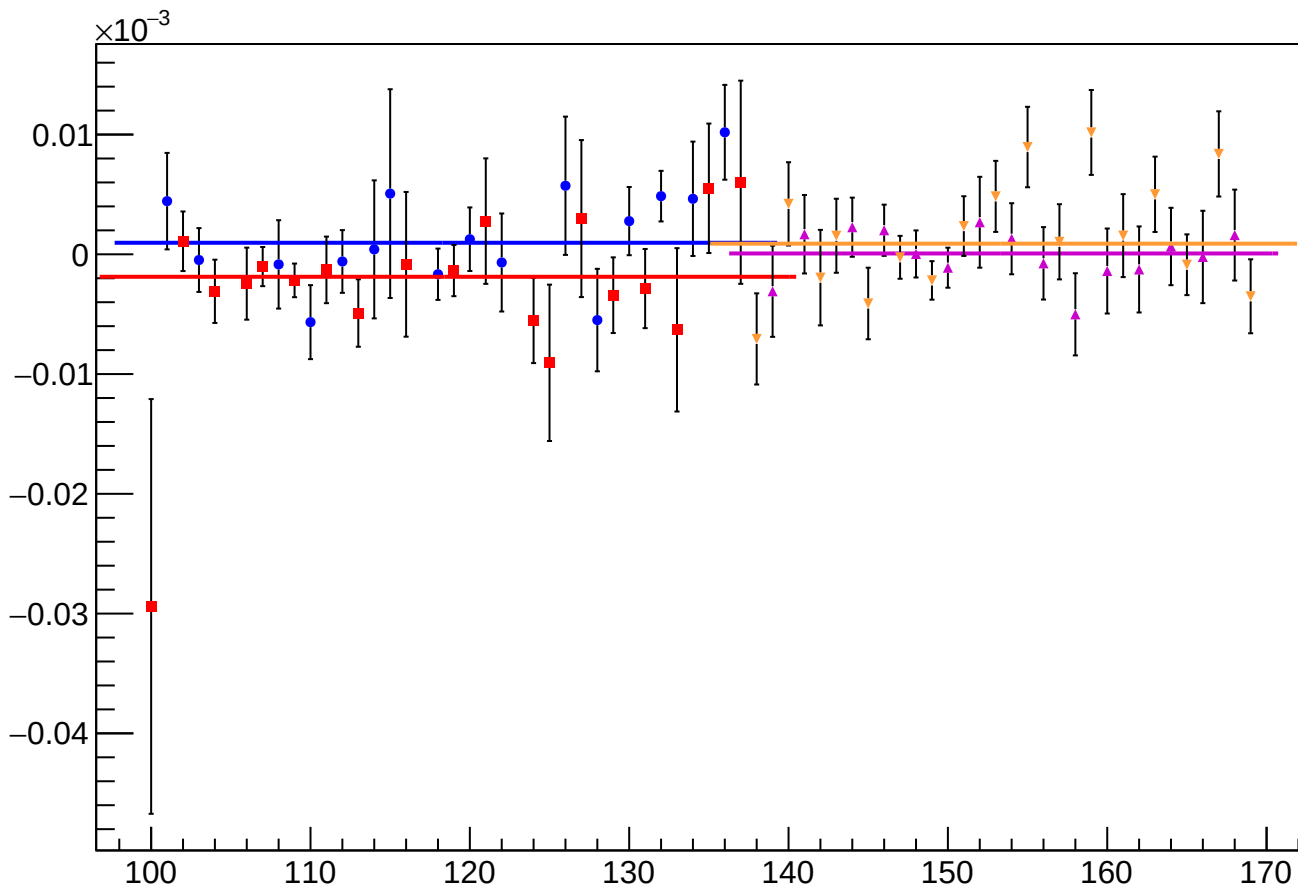
Right: 33.314+/-0.007 χ^2/NDF : 2869944.8/34

In: 40.604+/-0.007 χ^2/NDF : 2664543.3/30

Out: 39.725+/-0.007 χ^2/NDF : 4227512.5/35

All: 40.148+/-0.005 χ^2/NDF : 6900294.2/66

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 20.9/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:36.1/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 12.9/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:6.5/14

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 43.3/31

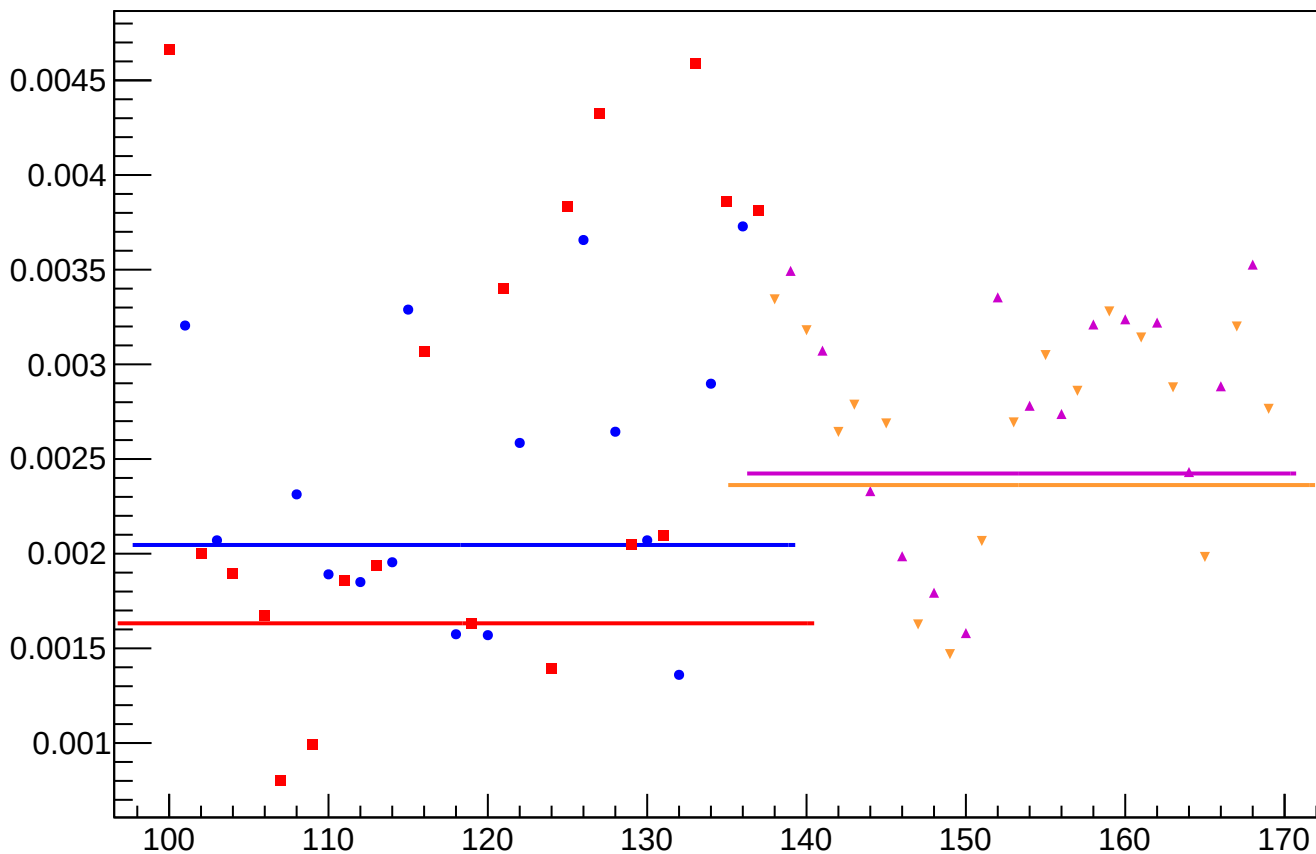
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 41.1/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:28.1/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:57.5/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 87.4/66

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1260485.9/15

Left Out: 0.002+/-0.000 χ^2/NDF :1934620.5/16

Right Out: 0.002+/-0.000 χ^2/NDF : 2928991.9/18

Left In: 0.002+/-0.000 χ^2/NDF :1714655.4/14

Left: 0.002+/-0.000 χ^2/NDF : 3656930.7/31

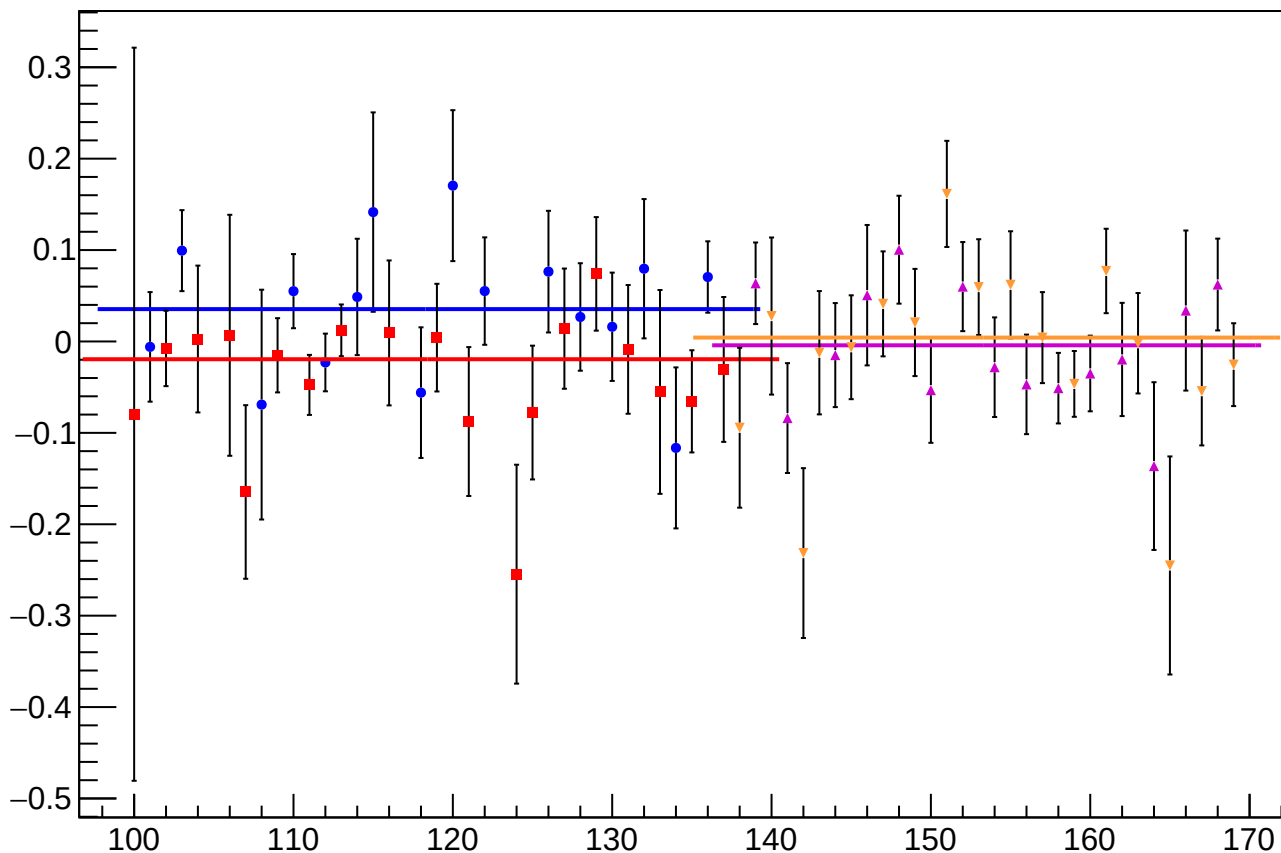
Right: 0.002+/-0.000 χ^2/NDF : 4499888.8/34

In: 0.002+/-0.000 χ^2/NDF :3218246.1/30

Out: 0.002+/-0.000 χ^2/NDF :6042855.6/35

All: 0.002+/-0.000 χ^2/NDF : 9526488.2/66

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.014 $\chi^2/\text{NDF}: 16.9/15$

Left Out: 0.004 ± 0.014 $\chi^2/\text{NDF}: 28.0/16$

Right Out: -0.019 ± 0.013 $\chi^2/\text{NDF}: 13.4/18$

Left In: -0.004 ± 0.014 $\chi^2/\text{NDF}: 17.1/14$

Left: 0.000 ± 0.010 $\chi^2/\text{NDF}: 45.4/31$

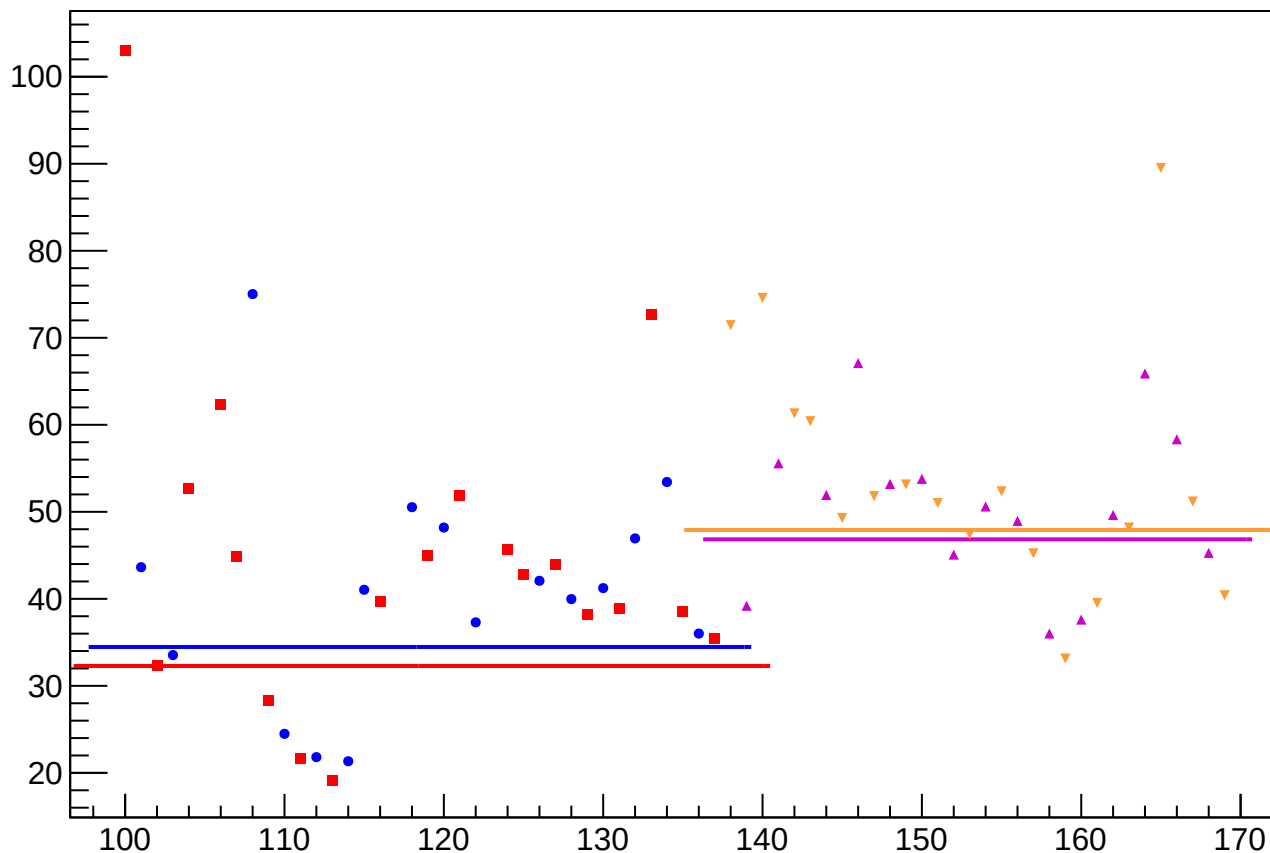
Right: 0.006 ± 0.010 $\chi^2/\text{NDF}: 38.6/34$

In: 0.016 ± 0.010 $\chi^2/\text{NDF}: 38.1/30$

Out: -0.008 ± 0.009 $\chi^2/\text{NDF}: 43.0/35$

All: 0.003 ± 0.007 $\chi^2/\text{NDF}: 84.1/66$

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.469+/-0.010 χ^2/NDF : 1171158.4/15

Left Out: 47.917+/-0.010 χ^2/NDF : 1204189.4/16

Right Out: 32.285+/-0.009 χ^2/NDF : 1672606.5/18

Left In: 46.838+/-0.010 χ^2/NDF : 706679.1/14

Left: 47.387+/-0.007 χ^2/NDF : 1916899.7/31

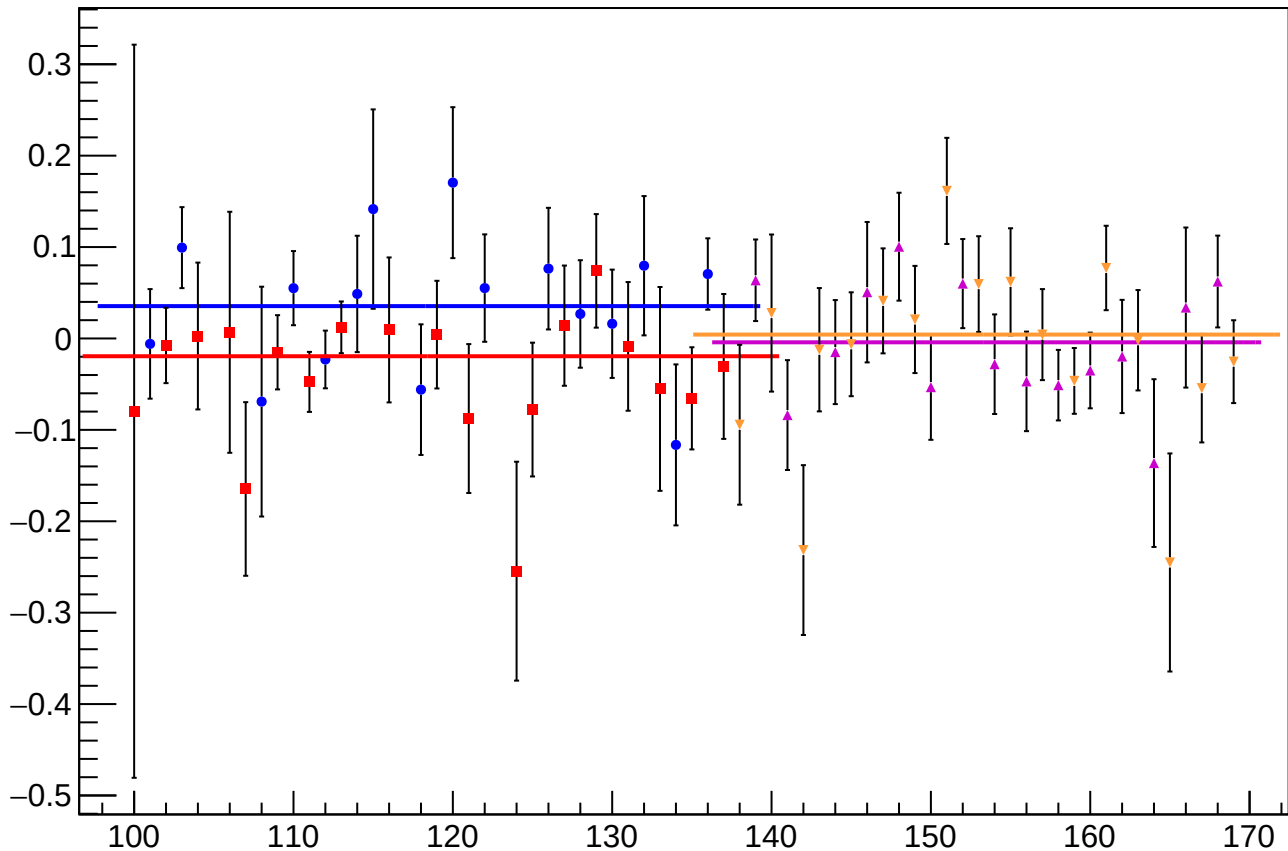
Right: 33.315+/-0.007 χ^2/NDF : 2869868.2/34

In: 40.605+/-0.007 χ^2/NDF : 2664542.1/30

Out: 39.726+/-0.007 χ^2/NDF : 4227504.9/35

All: 40.149+/-0.005 χ^2/NDF : 6900284.2/66

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.035 ± 0.014 $\chi^2/\text{NDF}: 16.9/15$

Left Out: 0.004 ± 0.014 $\chi^2/\text{NDF}: 28.0/16$

Right Out: -0.019 ± 0.013 $\chi^2/\text{NDF}: 13.4/18$

Left In: -0.004 ± 0.014 $\chi^2/\text{NDF}: 17.1/14$

Left: 0.000 ± 0.010 $\chi^2/\text{NDF}: 45.4/31$

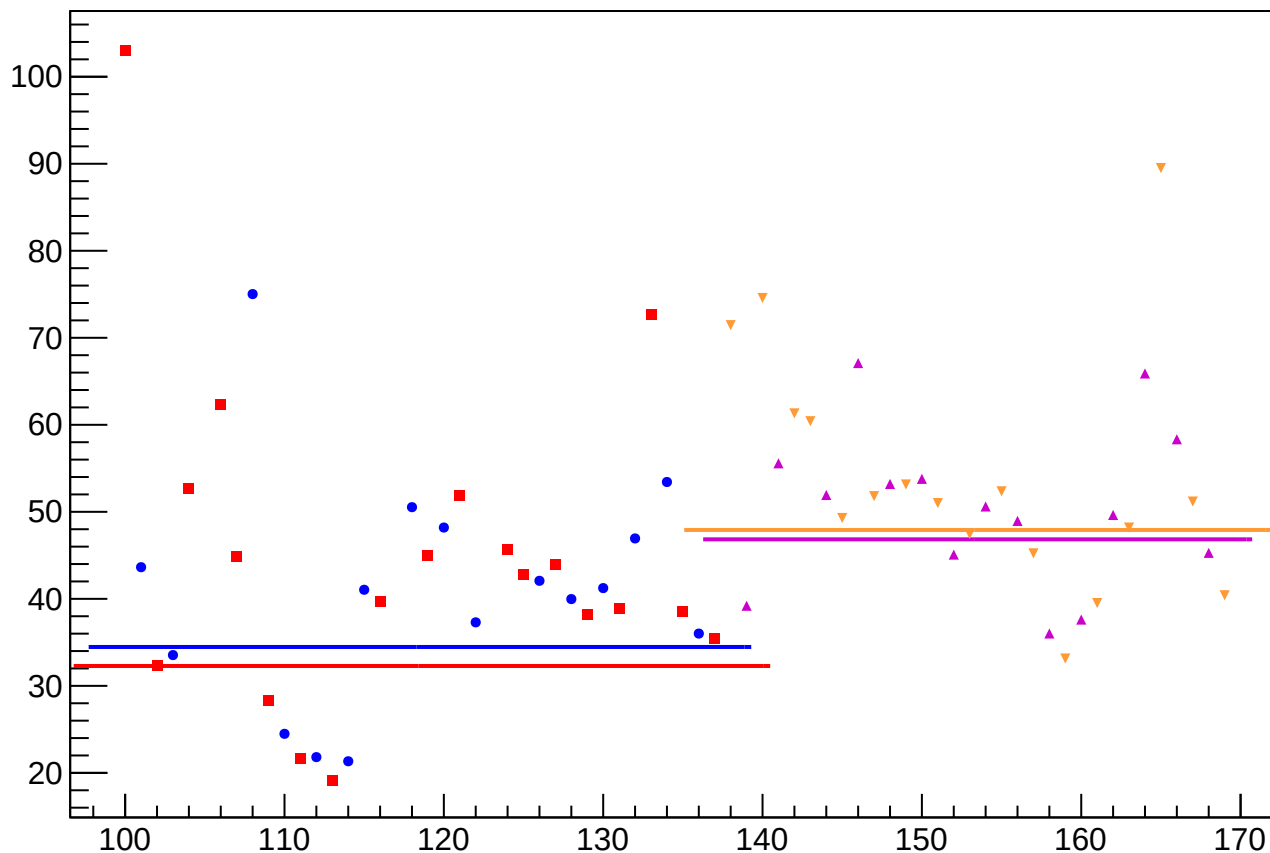
Right: 0.006 ± 0.010 $\chi^2/\text{NDF}: 38.6/34$

In: 0.016 ± 0.010 $\chi^2/\text{NDF}: 38.1/30$

Out: -0.008 ± 0.009 $\chi^2/\text{NDF}: 43.0/35$

All: 0.003 ± 0.007 $\chi^2/\text{NDF}: 84.1/66$

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.469 $\pm$ 0.010 χ^2 /NDF: 1171158.4/15

Left Out: 47.917 $\pm$ 0.010 χ^2 /NDF:1204189.4/16

Right Out: 32.285 $\pm$ 0.009 χ^2 /NDF: 1672606.5/18

Left In: 46.838 $\pm$ 0.010 χ^2 /NDF:706679.1/14

Left: 47.387 $\pm$ 0.007 χ^2 /NDF: 1916899.7/31

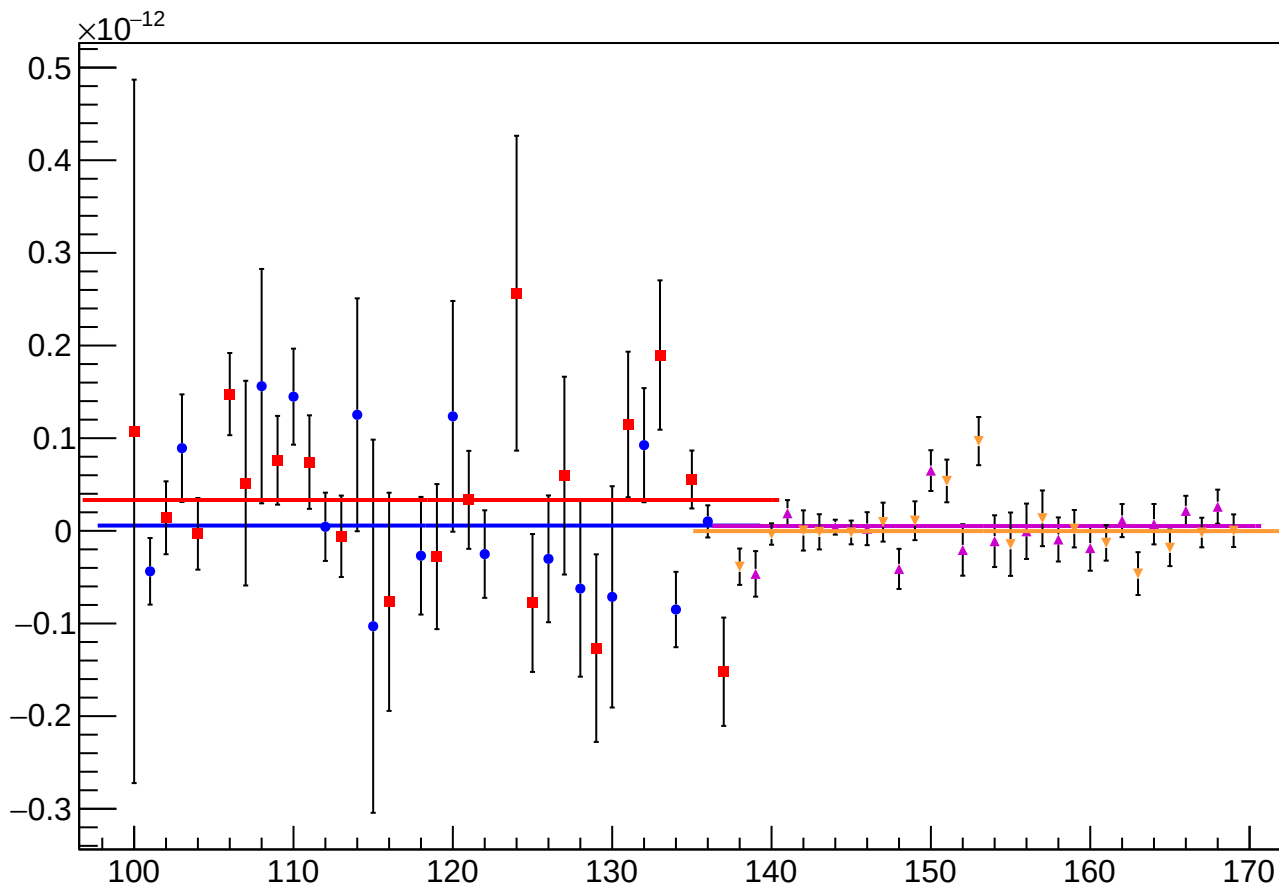
Right: 33.315 $\pm$ 0.007 χ^2 /NDF: 2869868.2/34

In: 40.605 $\pm$ 0.007 χ^2 /NDF:2664542.1/30

Out: 39.726 $\pm$ 0.007 χ^2 /NDF:4227504.9/35

All: 40.149 $\pm$ 0.005 χ^2 /NDF: 6900284.2/66

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.6/15

Left Out: -0.000+/-0.000 χ^2/NDF : 29.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 33.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 22.3/14

Left: 0.000+/-0.000 χ^2/NDF : 52.6/31

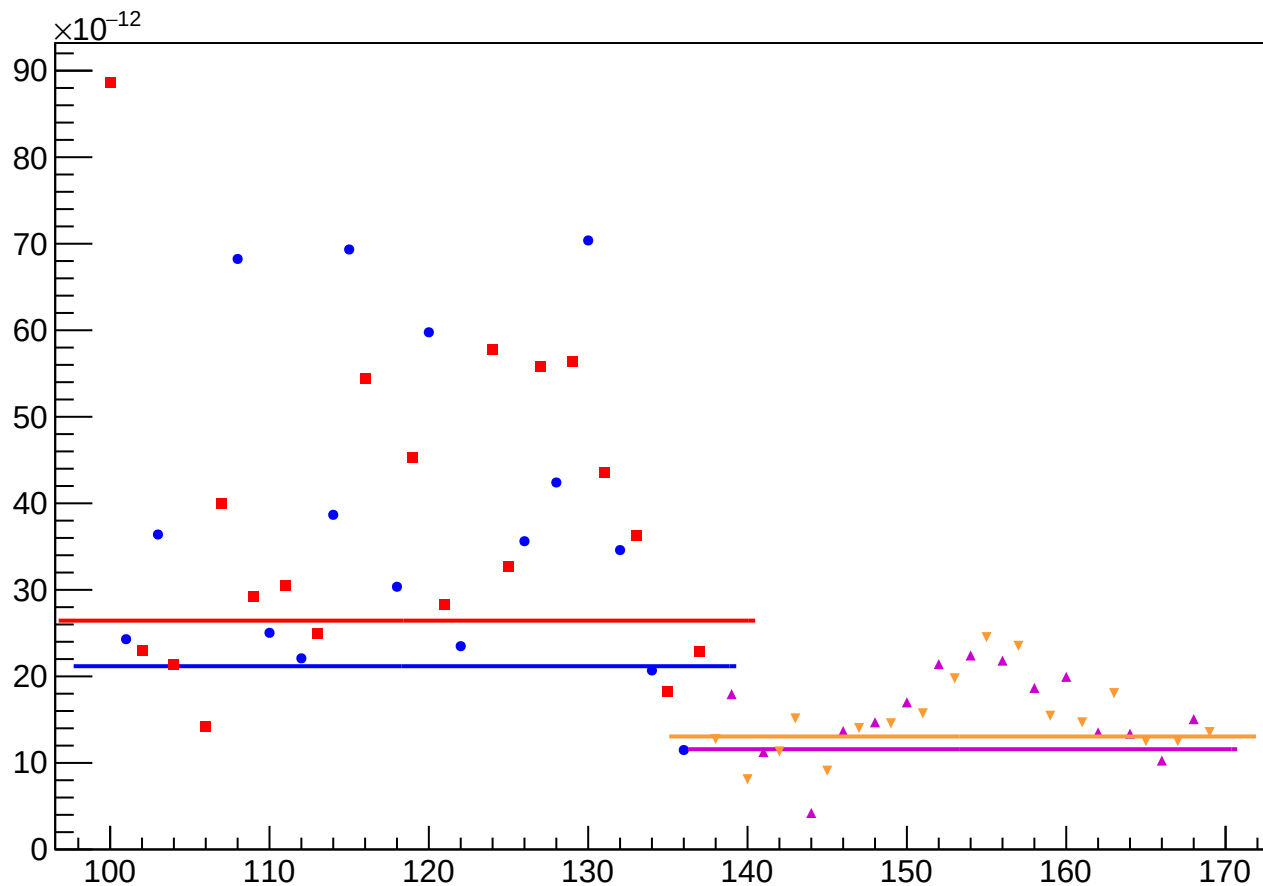
Right: 0.000+/-0.000 χ^2/NDF : 59.6/34

In: 0.000+/-0.000 χ^2/NDF : 45.9/30

Out: 0.000+/-0.000 χ^2/NDF : 68.9/35

All: 0.000+/-0.000 χ^2/NDF : 114.9/66

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2081289.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :1379354.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1217987.6/18

Left In: 0.000+/-0.000 χ^2/NDF :3309635.1/14

Left: 0.000+/-0.000 χ^2/NDF : 4793128.4/31

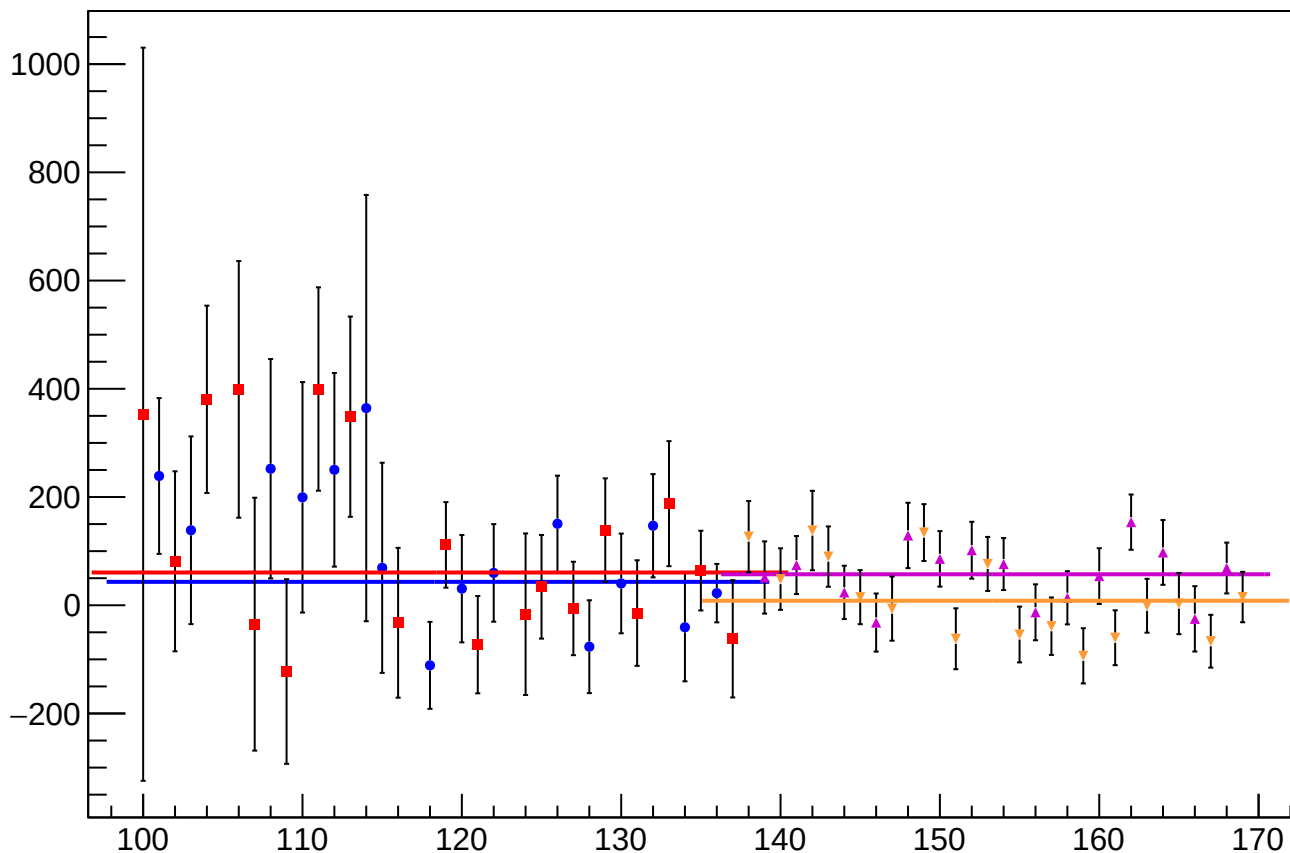
Right: 0.000+/-0.000 χ^2/NDF : 3483999.9/34

In: 0.000+/-0.000 χ^2/NDF :6610447.8/30

Out: 0.000+/-0.000 χ^2/NDF :4474237.1/35

All: 0.000+/-0.000 χ^2/NDF : 11230139.6/66

reg_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 43.247 $\pm$ 25.781 χ^2 /NDF: 15.0/15

Left Out: 8.306 $\pm$ 13.004 χ^2 /NDF:28.7/16

Right Out: 60.582 $\pm$ 26.894 χ^2 /NDF: 20.4/18

Left In: 57.246 $\pm$ 13.689 χ^2 /NDF:14.5/14

Left: 31.522 $\pm$ 9.428 χ^2 /NDF: 49.9/31

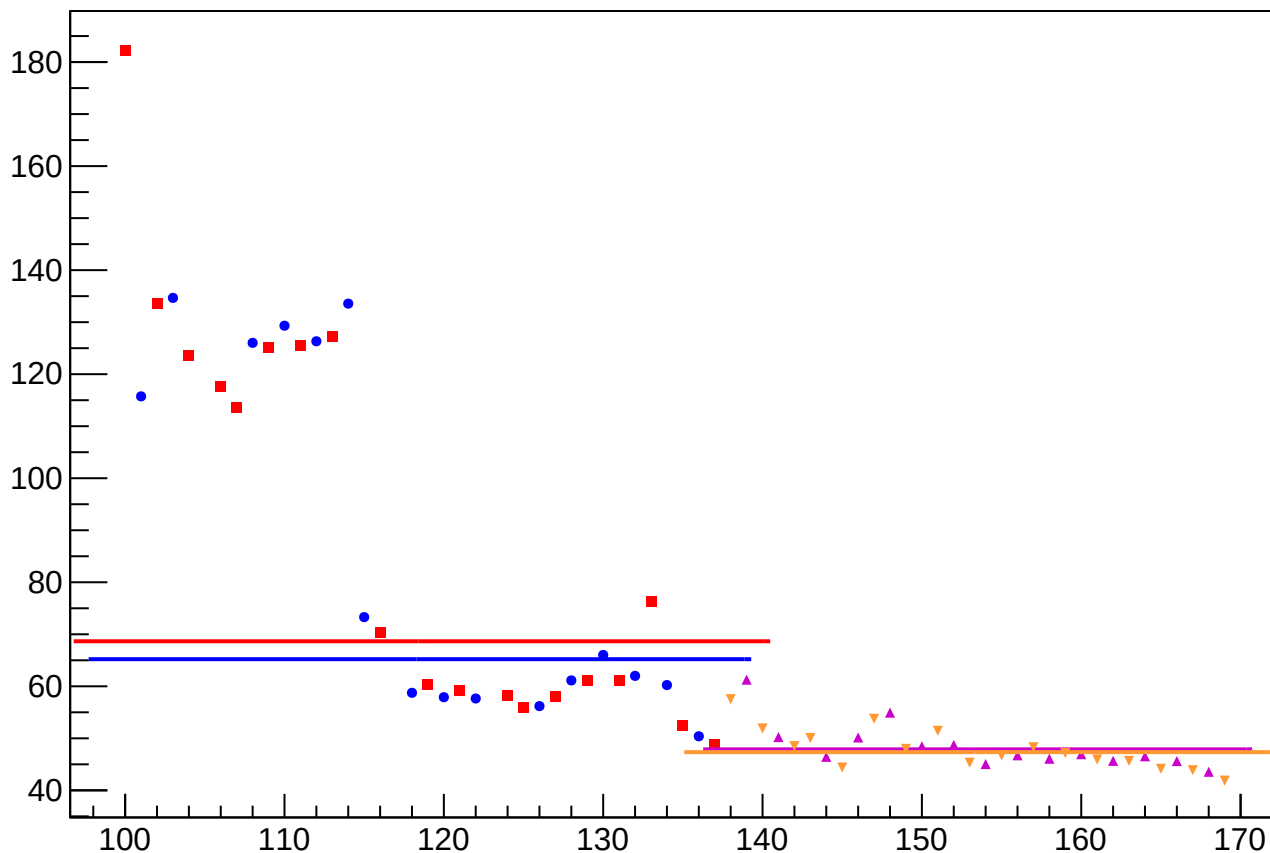
Right: 51.548 $\pm$ 18.611 χ^2 /NDF: 35.6/34

In: 54.167 $\pm$ 12.090 χ^2 /NDF:29.7/30

Out: 18.212 $\pm$ 11.708 χ^2 /NDF:52.2/35

All: 35.612 $\pm$ 8.411 χ^2 /NDF: 86.4/66

reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 65.212 $\pm$ 0.018 χ^2 /NDF: 1446504.6/15

Left Out: 47.348 $\pm$ 0.009 χ^2 /NDF:159631.2/16

Right Out: 68.656 $\pm$ 0.019 χ^2 /NDF: 1640900.1/18

Left In: 47.877 $\pm$ 0.010 χ^2 /NDF:153537.4/14

Left: 47.599 $\pm$ 0.007 χ^2 /NDF: 314741.3/31

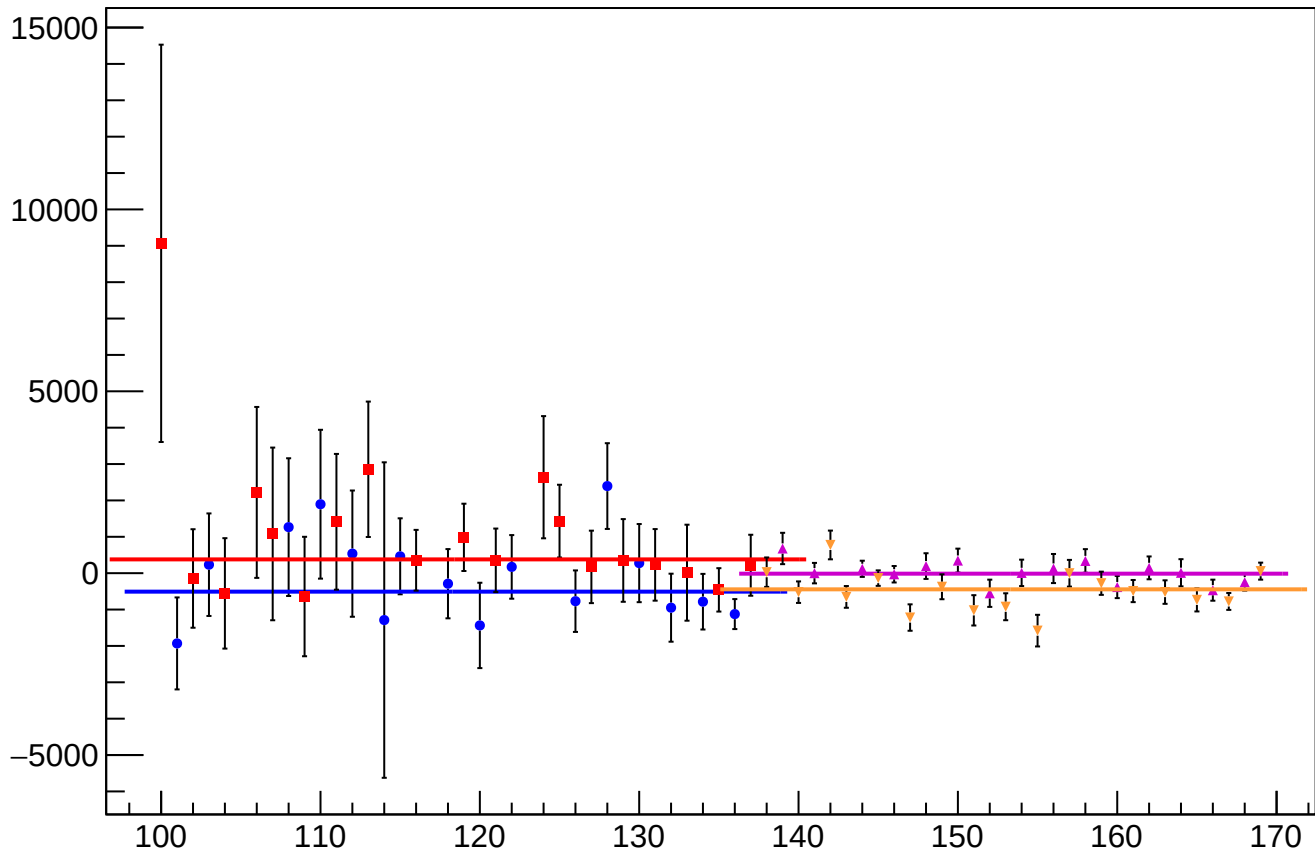
Right: 66.862 $\pm$ 0.013 χ^2 /NDF: 3104495.7/34

In: 51.690 $\pm$ 0.009 χ^2 /NDF:2305457.6/30

Out: 51.386 $\pm$ 0.008 χ^2 /NDF:2818136.4/35

All: 51.533 $\pm$ 0.006 χ^2 /NDF: 5124246.9/66

asym_sam_1526_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -507.928 ± 236.945 χ^2/NDF : 15.6/15

Left Out: -444.474 ± 75.373 χ^2/NDF : 37.8/16

Right Out: 378.892 ± 256.407 χ^2/NDF : 11.7/18

Left In: -13.936 ± 78.051 χ^2/NDF : 13.1/14

Left: -236.717 ± 54.219 χ^2/NDF : 66.6/31

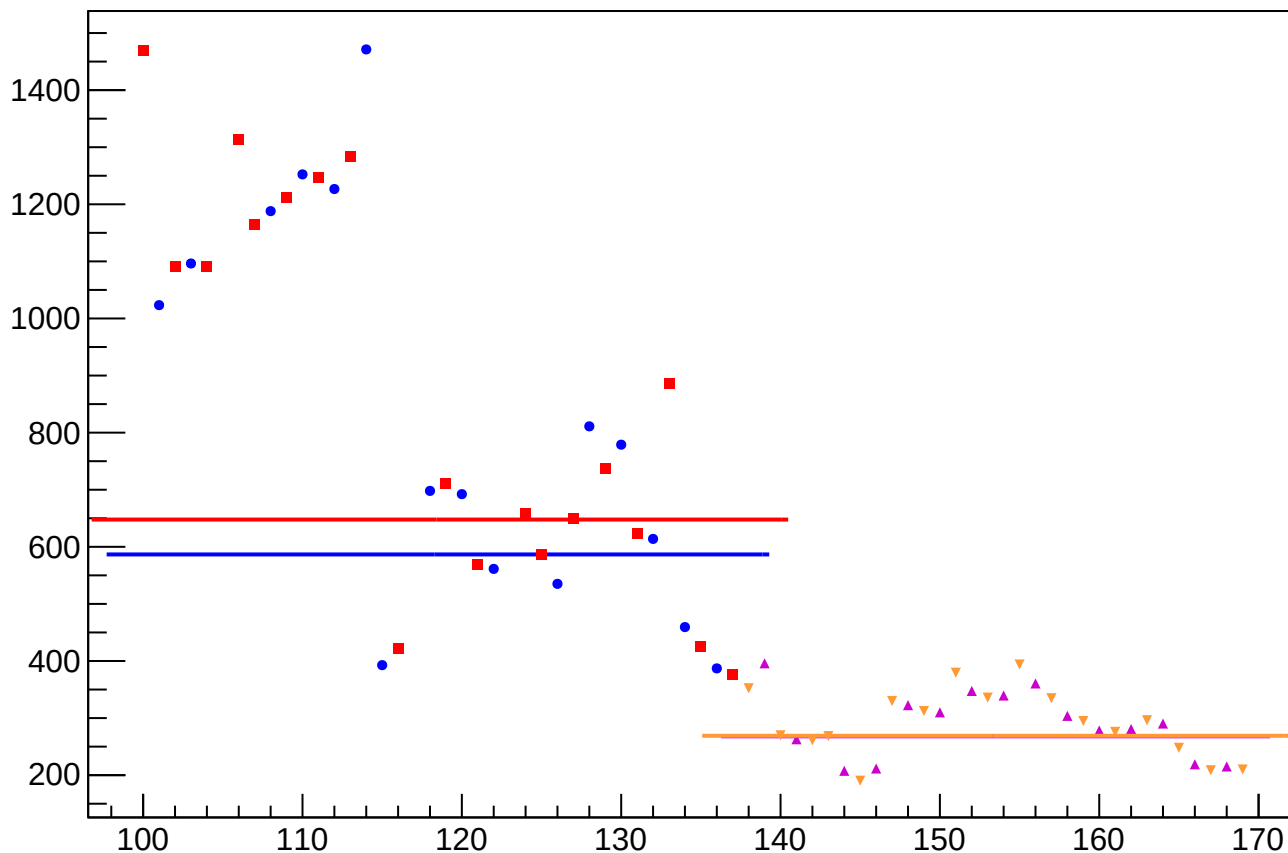
Right: -99.449 ± 174.019 χ^2/NDF : 33.8/34

In: -62.291 ± 74.132 χ^2/NDF : 32.6/30

Out: -378.985 ± 72.313 χ^2/NDF : 59.1/35

All: -224.571 ± 51.764 χ^2/NDF : 101.0/66

asym_sam_1526_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 586.645 ± 0.168 χ^2/NDF : 2053133.2/15

Left Out: 269.030 ± 0.053 χ^2/NDF : 1182156.0/16

Right Out: 647.736 ± 0.181 χ^2/NDF : 2105638.0/18

Left In: 268.024 ± 0.055 χ^2/NDF : 1001930.3/14

Left: 268.545 ± 0.038 χ^2/NDF : 2184258.1/31

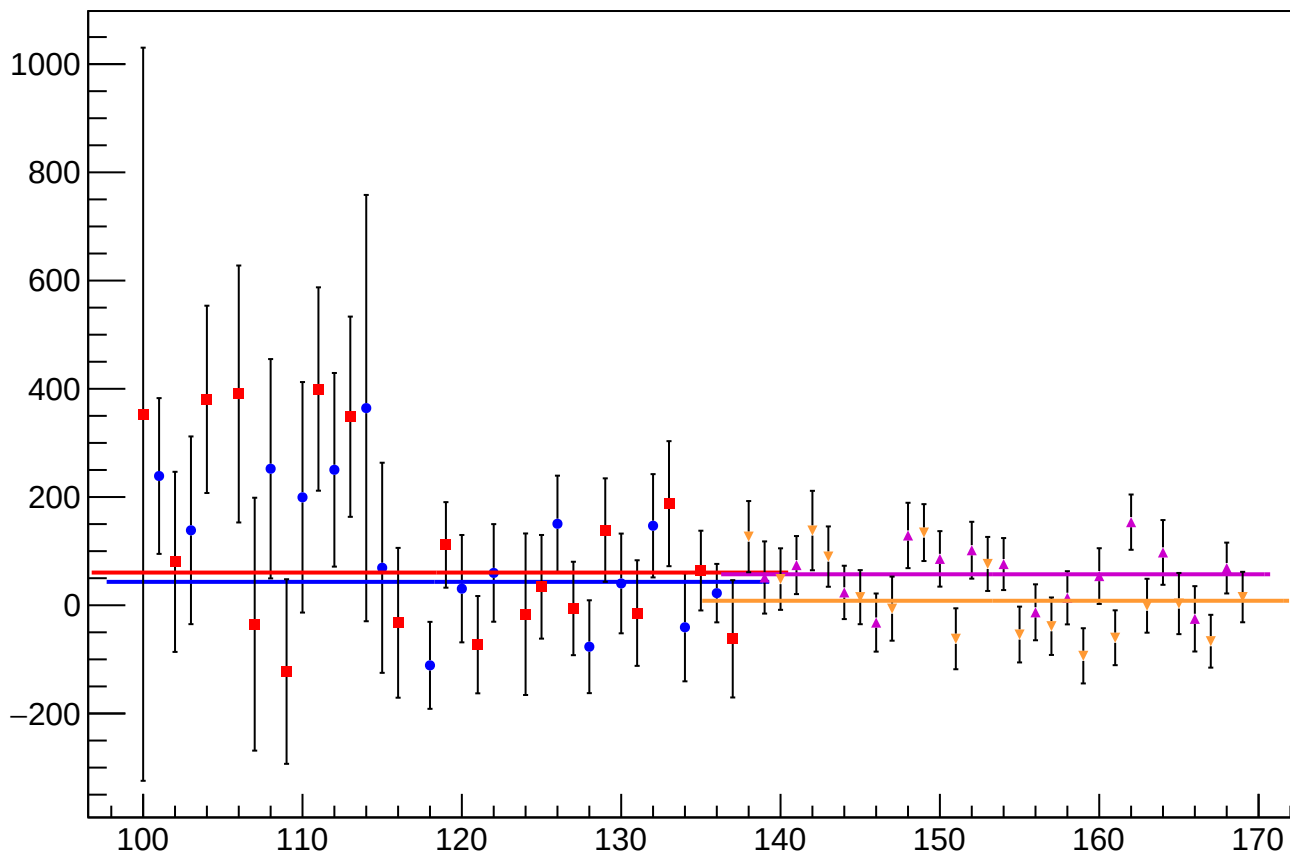
Right: 614.784 ± 0.123 χ^2/NDF : 4220010.2/34

In: 299.213 ± 0.052 χ^2/NDF : 6317527.1/30

Out: 299.152 ± 0.051 χ^2/NDF : 7303666.7/35

All: 299.182 ± 0.037 χ^2/NDF : 13621194.5/66

cor_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 43.239 $\pm$ 25.781 χ^2 /NDF: 15.0/15

Left Out: 8.307 $\pm$ 13.004 χ^2 /NDF:28.7/16

Right Out: 60.432 $\pm$ 26.895 χ^2 /NDF: 20.3/18

Left In: 57.245 $\pm$ 13.689 χ^2 /NDF:14.5/14

Left: 31.522 $\pm$ 9.428 χ^2 /NDF: 49.9/31

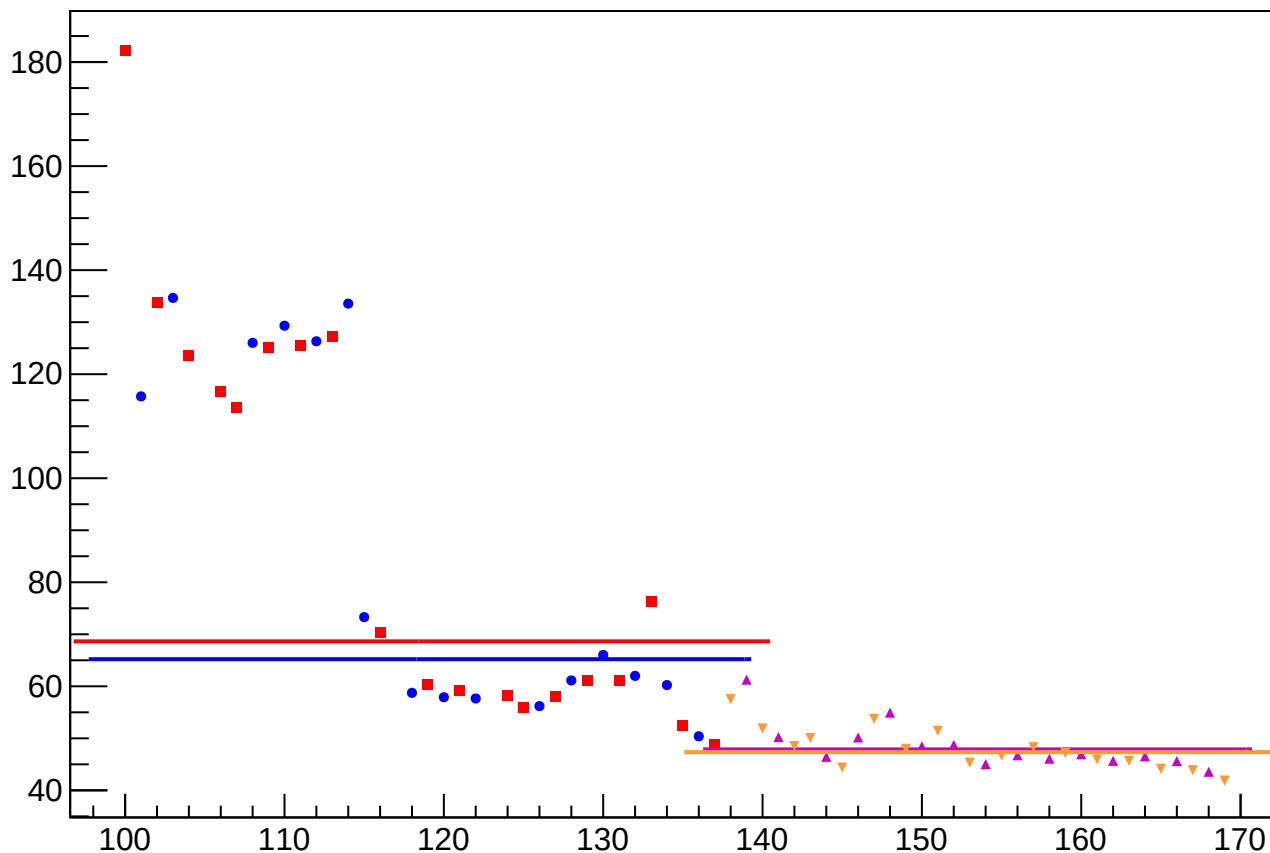
Right: 51.472 $\pm$ 18.611 χ^2 /NDF: 35.5/34

In: 54.165 $\pm$ 12.090 χ^2 /NDF:29.7/30

Out: 18.185 $\pm$ 11.708 χ^2 /NDF:52.1/35

All: 35.596 $\pm$ 8.411 χ^2 /NDF: 86.3/66

cor_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 65.212 $\pm$ 0.018 χ^2/NDF : 1446506.9/15

Left Out: 47.348 $\pm$ 0.009 χ^2/NDF :159631.2/16

Right Out: 68.642 $\pm$ 0.019 χ^2/NDF : 1637558.1/18

Left In: 47.877 $\pm$ 0.010 χ^2/NDF :153537.4/14

Left: 47.599 $\pm$ 0.007 χ^2/NDF : 314741.3/31

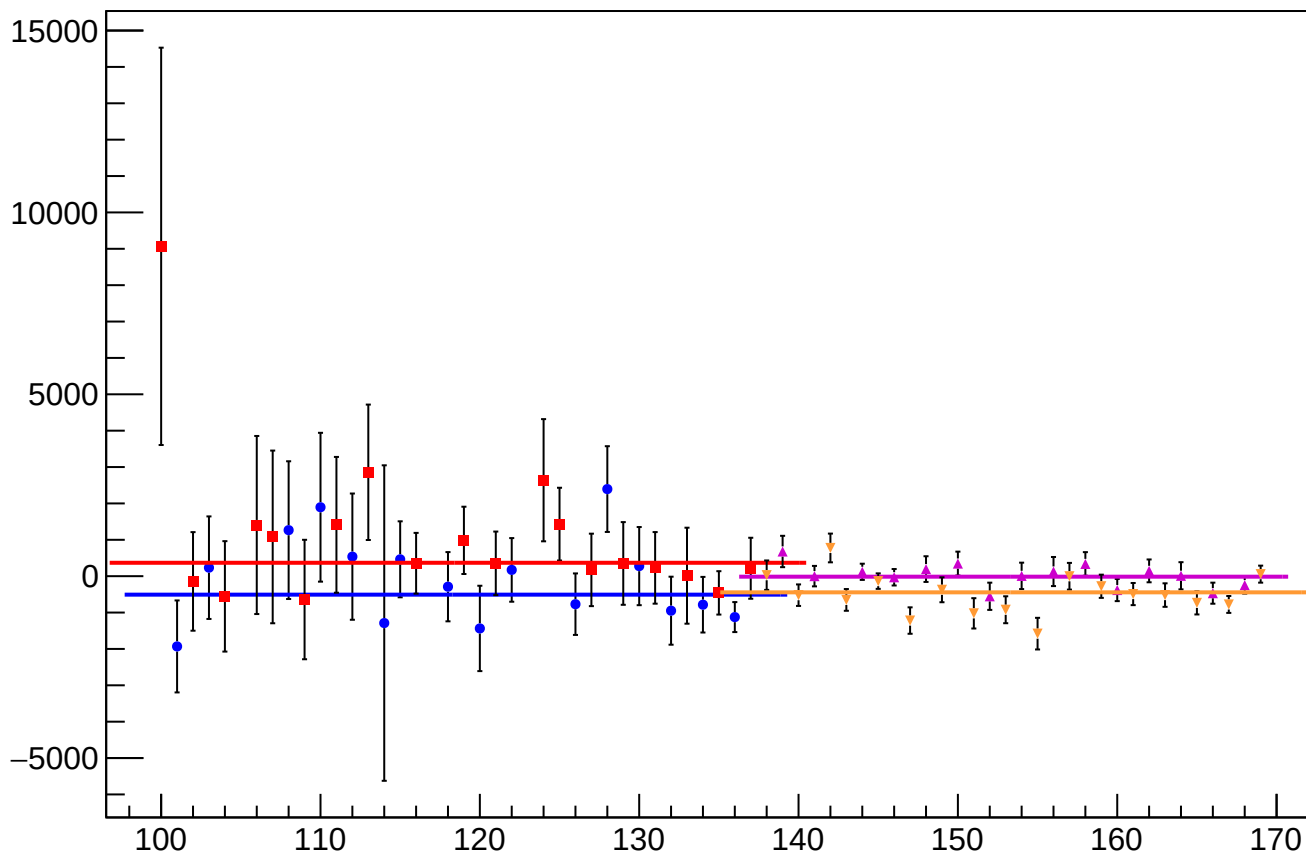
Right: 66.855 $\pm$ 0.013 χ^2/NDF : 3101012.7/34

In: 51.690 $\pm$ 0.009 χ^2/NDF :2305459.7/30

Out: 51.383 $\pm$ 0.008 χ^2/NDF :2813369.8/35

All: 51.531 $\pm$ 0.006 χ^2/NDF : 5119495.0/66

asym_sam_1526_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -507.911 ± 236.945 $\chi^2/\text{NDF}: 15.6/15$

Left Out: -444.470 ± 75.373 $\chi^2/\text{NDF}: 37.8/16$

Right Out: 368.334 ± 256.534 $\chi^2/\text{NDF}: 11.3/18$

Left In: -13.937 ± 78.051 $\chi^2/\text{NDF}: 13.1/14$

Left: -236.716 ± 54.219 $\chi^2/\text{NDF}: 66.6/31$

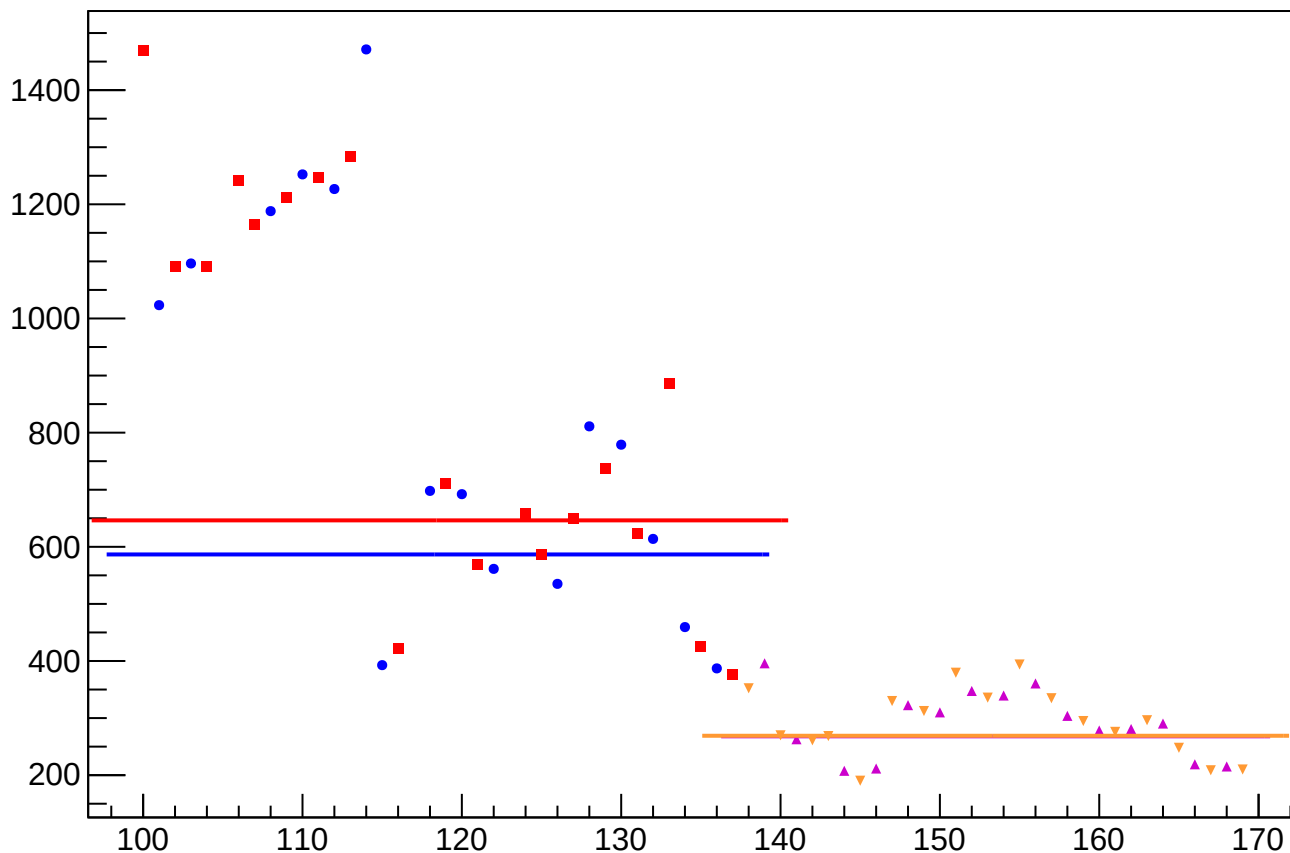
Right: -104.517 ± 174.059 $\chi^2/\text{NDF}: 33.2/34$

In: -62.290 ± 74.132 $\chi^2/\text{NDF}: 32.6/30$

Out: -379.880 ± 72.316 $\chi^2/\text{NDF}: 58.4/35$

All: -225.023 ± 51.765 $\chi^2/\text{NDF}: 100.4/66$

asym_sam_1526_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 586.645 $\pm$ 0.168 χ^2 /NDF: 2053169.7/15

Left Out: 269.030 $\pm$ 0.053 χ^2 /NDF:1182161.8/16

Right Out: 646.328 $\pm$ 0.181 χ^2 /NDF: 2063185.3/18

Left In: 268.024 $\pm$ 0.055 χ^2 /NDF:1001927.8/14

Left: 268.545 $\pm$ 0.038 χ^2 /NDF: 2184261.4/31

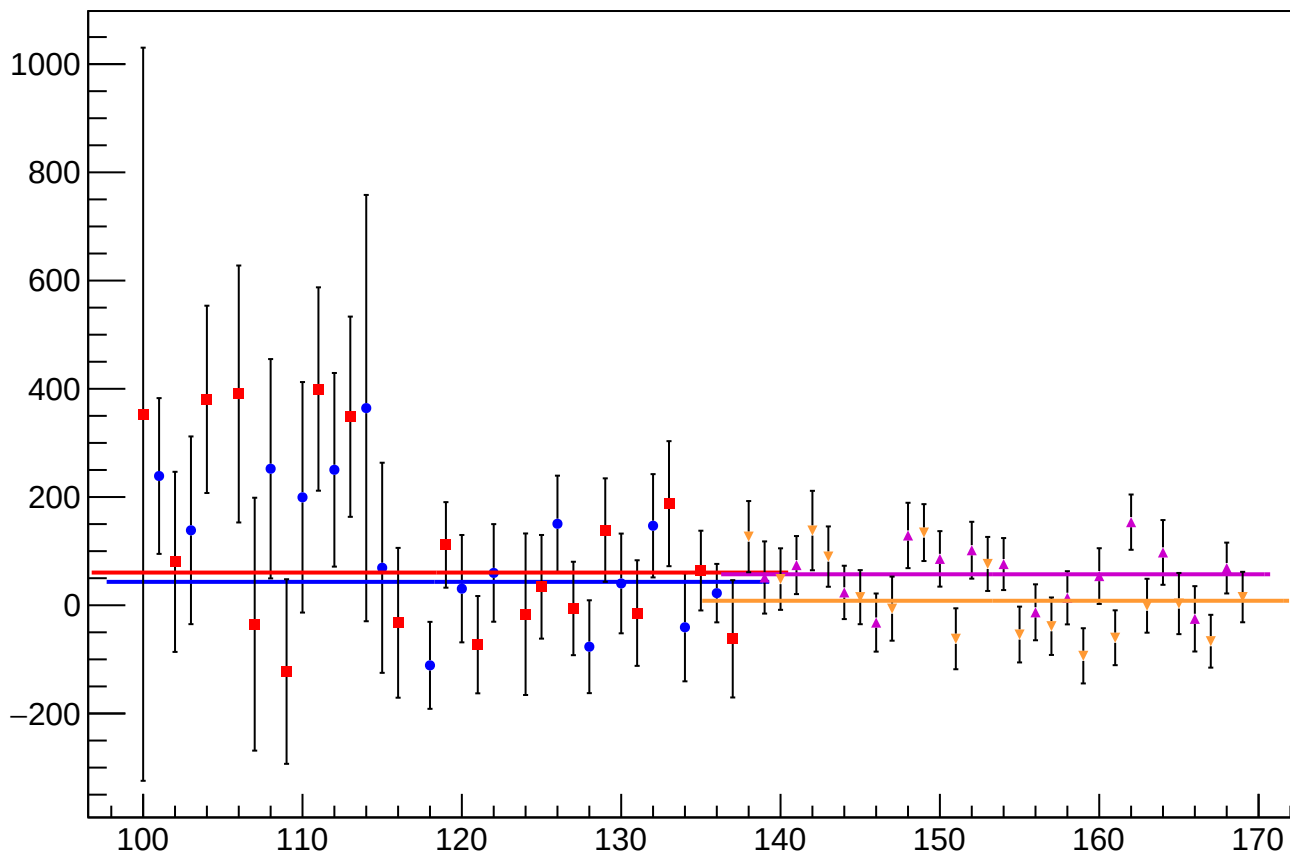
Right: 614.121 $\pm$ 0.123 χ^2 /NDF: 4174772.7/34

In: 299.213 $\pm$ 0.052 χ^2 /NDF:6317546.5/30

Out: 299.012 $\pm$ 0.051 χ^2 /NDF:7227786.5/35

All: 299.110 $\pm$ 0.037 χ^2 /NDF: 13545340.6/66

eigen_cor_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 43.239 $\pm$ 25.781 χ^2 /NDF: 15.0/15

Left Out: 8.307 $\pm$ 13.004 χ^2 /NDF:28.7/16

Right Out: 60.432 $\pm$ 26.895 χ^2 /NDF: 20.3/18

Left In: 57.245 $\pm$ 13.689 χ^2 /NDF:14.5/14

Left: 31.522 $\pm$ 9.428 χ^2 /NDF: 49.9/31

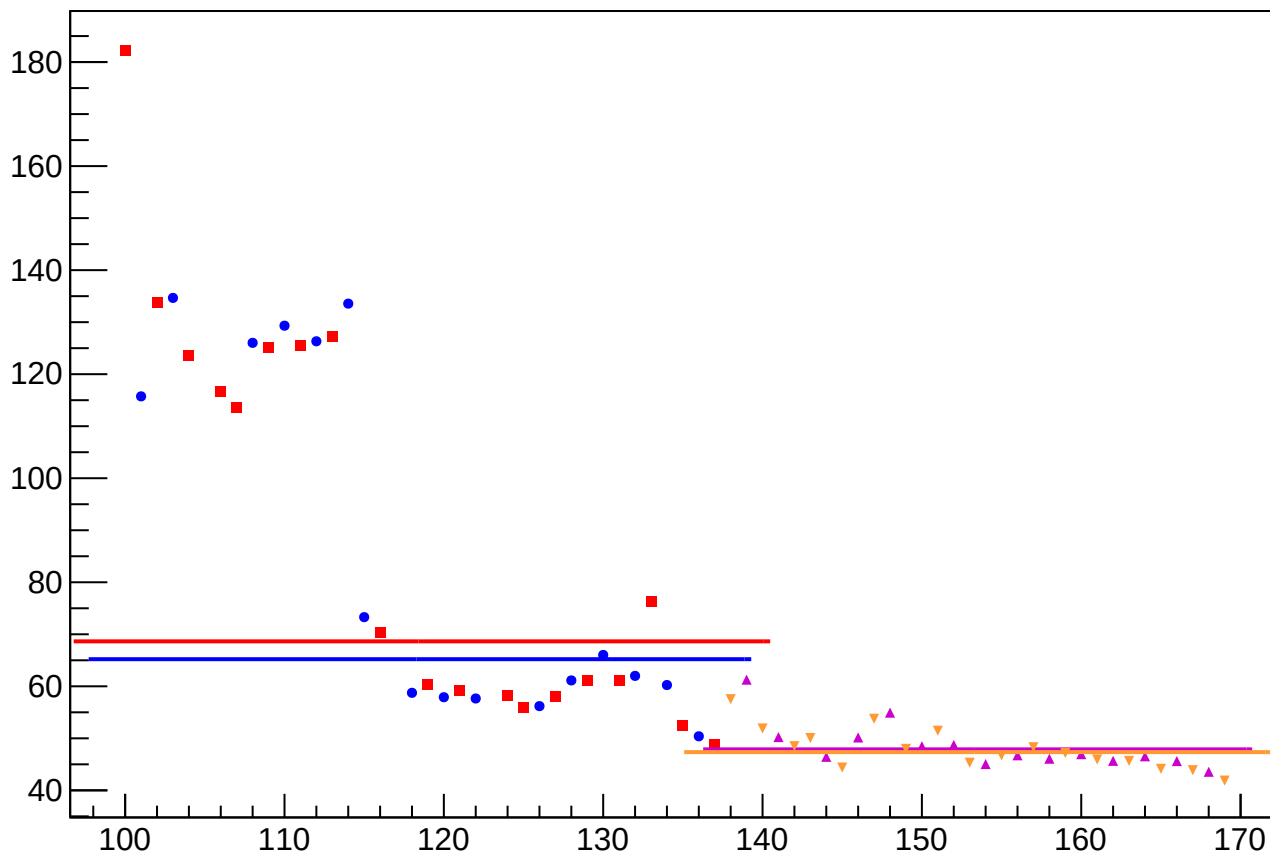
Right: 51.472 $\pm$ 18.611 χ^2 /NDF: 35.5/34

In: 54.165 $\pm$ 12.090 χ^2 /NDF:29.7/30

Out: 18.185 $\pm$ 11.708 χ^2 /NDF:52.1/35

All: 35.596 $\pm$ 8.411 χ^2 /NDF: 86.3/66

eigen_cor_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 65.212+/-0.018 χ^2/NDF : 1446506.9/15

Left Out: 47.348+/-0.009 χ^2/NDF :159631.2/16

Right Out: 68.642+/-0.019 χ^2/NDF : 1637558.1/18

Left In: 47.877+/-0.010 χ^2/NDF :153537.4/14

Left: 47.599+/-0.007 χ^2/NDF : 314741.3/31

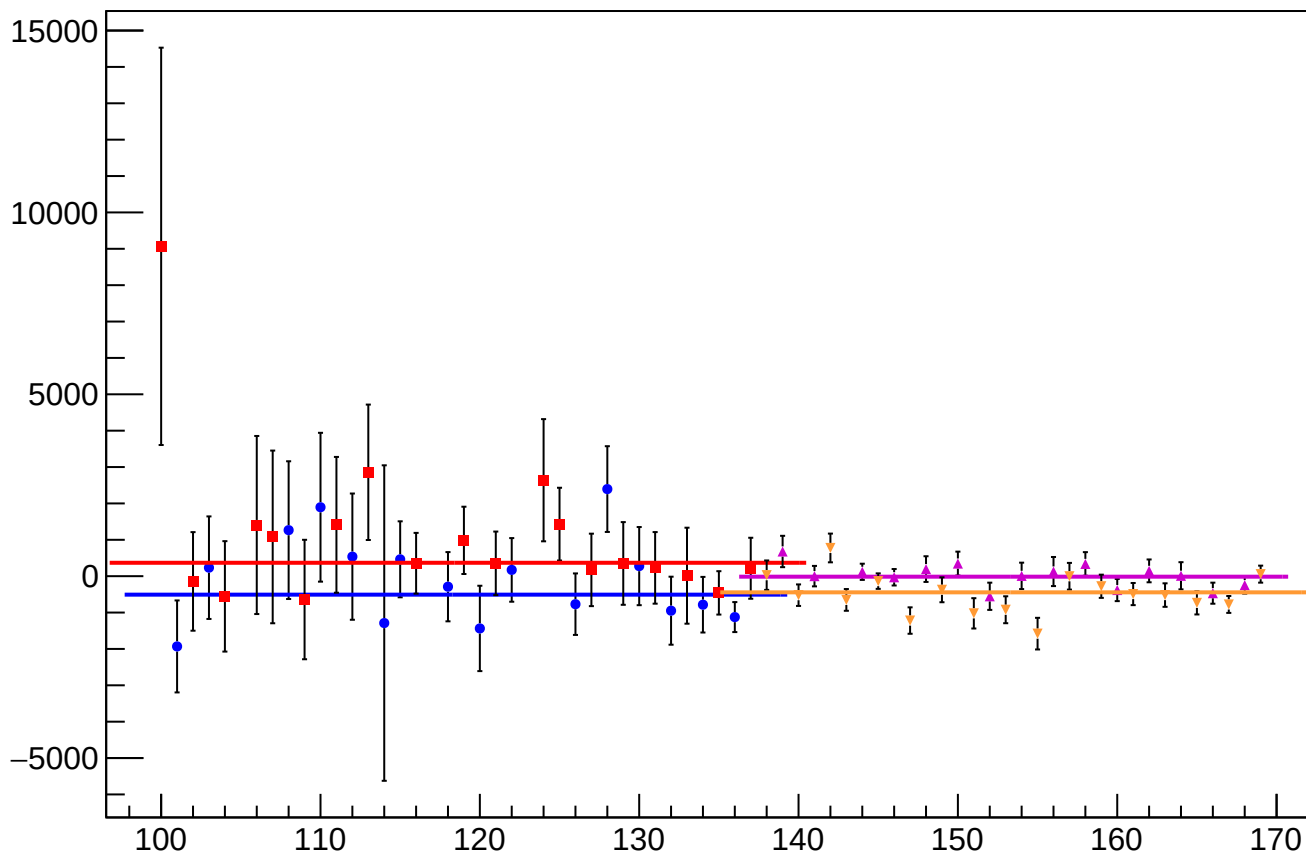
Right: 66.855+/-0.013 χ^2/NDF : 3101012.7/34

In: 51.690+/-0.009 χ^2/NDF :2305459.7/30

Out: 51.383+/-0.008 χ^2/NDF :2813369.8/35

All: 51.531+/-0.006 χ^2/NDF : 5119495.0/66

asym_sam_1526_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -507.911+/-236.945 χ^2/NDF : 15.6/15

Left Out: -444.470+/-75.373 χ^2/NDF : 37.8/16

Right Out: 368.334+/-256.534 χ^2/NDF : 11.3/18

Left In: -13.937+/-78.051 χ^2/NDF : 13.1/14

Left: -236.716+/-54.219 χ^2/NDF : 66.6/31

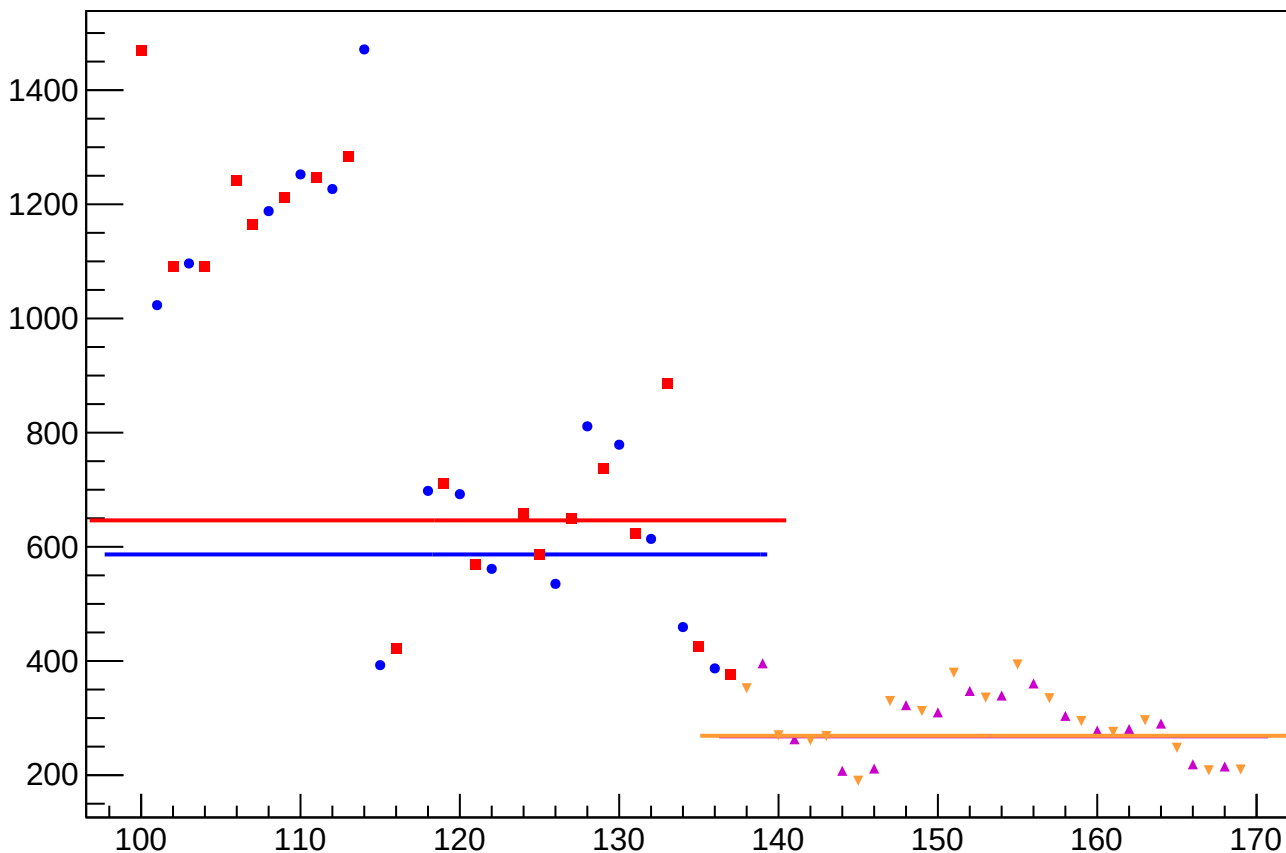
Right: -104.517+/-174.059 χ^2/NDF : 33.2/34

In: -62.290+/-74.132 χ^2/NDF : 32.6/30

Out: -379.880+/-72.316 χ^2/NDF : 58.4/35

All: -225.023+/-51.765 χ^2/NDF : 100.4/66

asym_sam_1526_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 586.645 $\pm$ 0.168 χ^2/NDF : 2053169.7/15

Left Out: 269.030 $\pm$ 0.053 χ^2/NDF : 1182161.8/16

Right Out: 646.328 $\pm$ 0.181 χ^2/NDF : 2063185.3/18

Left In: 268.024 $\pm$ 0.055 χ^2/NDF : 1001927.8/14

Left: 268.545 $\pm$ 0.038 χ^2/NDF : 2184261.4/31

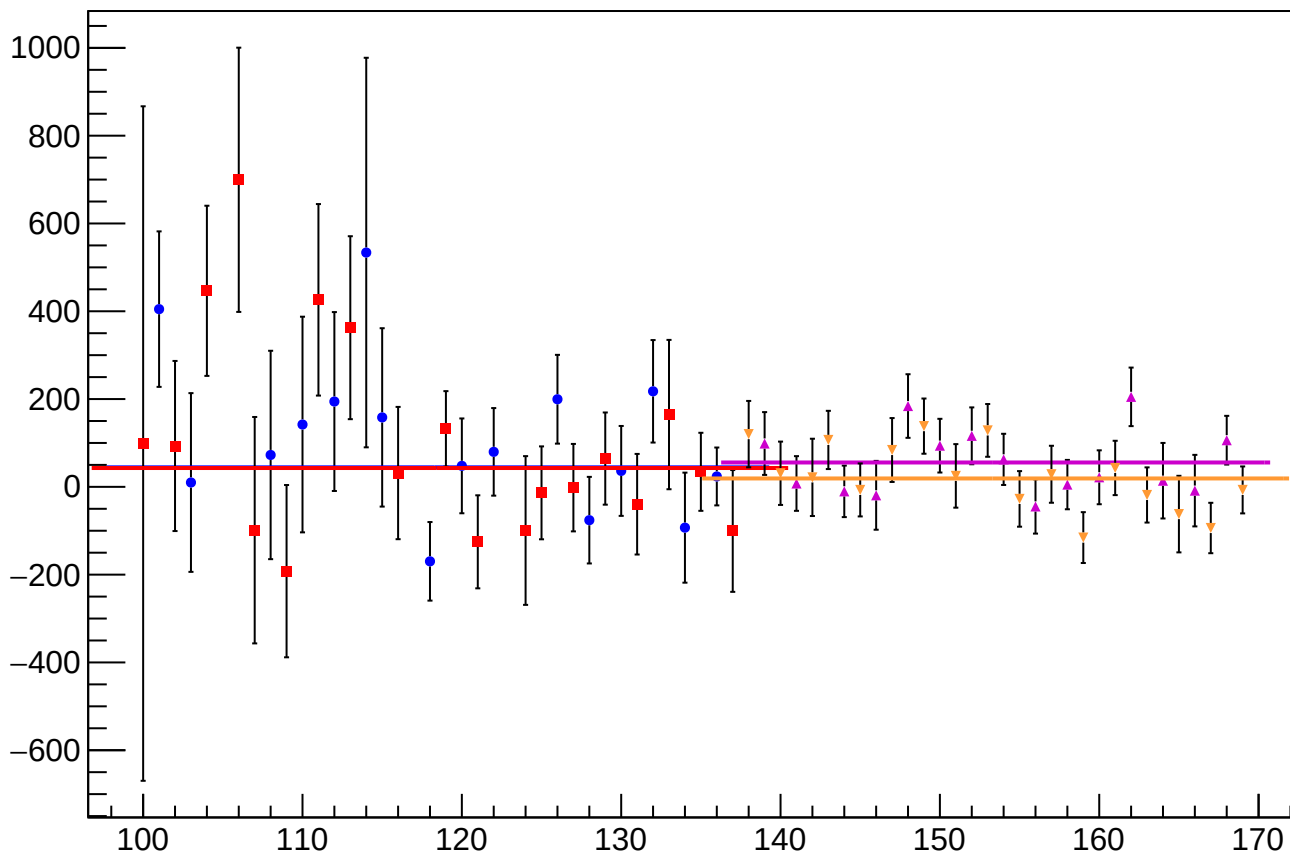
Right: 614.121 $\pm$ 0.123 χ^2/NDF : 4174772.7/34

In: 299.213 $\pm$ 0.052 χ^2/NDF : 6317546.5/30

Out: 299.012 $\pm$ 0.051 χ^2/NDF : 7227786.5/35

All: 299.110 $\pm$ 0.037 χ^2/NDF : 13545340.6/66

dit_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 44.387 $\pm$ 29.909 χ^2 /NDF: 19.6/15

Left Out: 19.123 $\pm$ 15.830 χ^2 /NDF:22.9/16

Right Out: 42.901 $\pm$ 31.248 χ^2 /NDF: 23.3/18

Left In: 55.502 $\pm$ 16.726 χ^2 /NDF:18.0/14

Left: 36.311 $\pm$ 11.497 χ^2 /NDF: 43.4/31

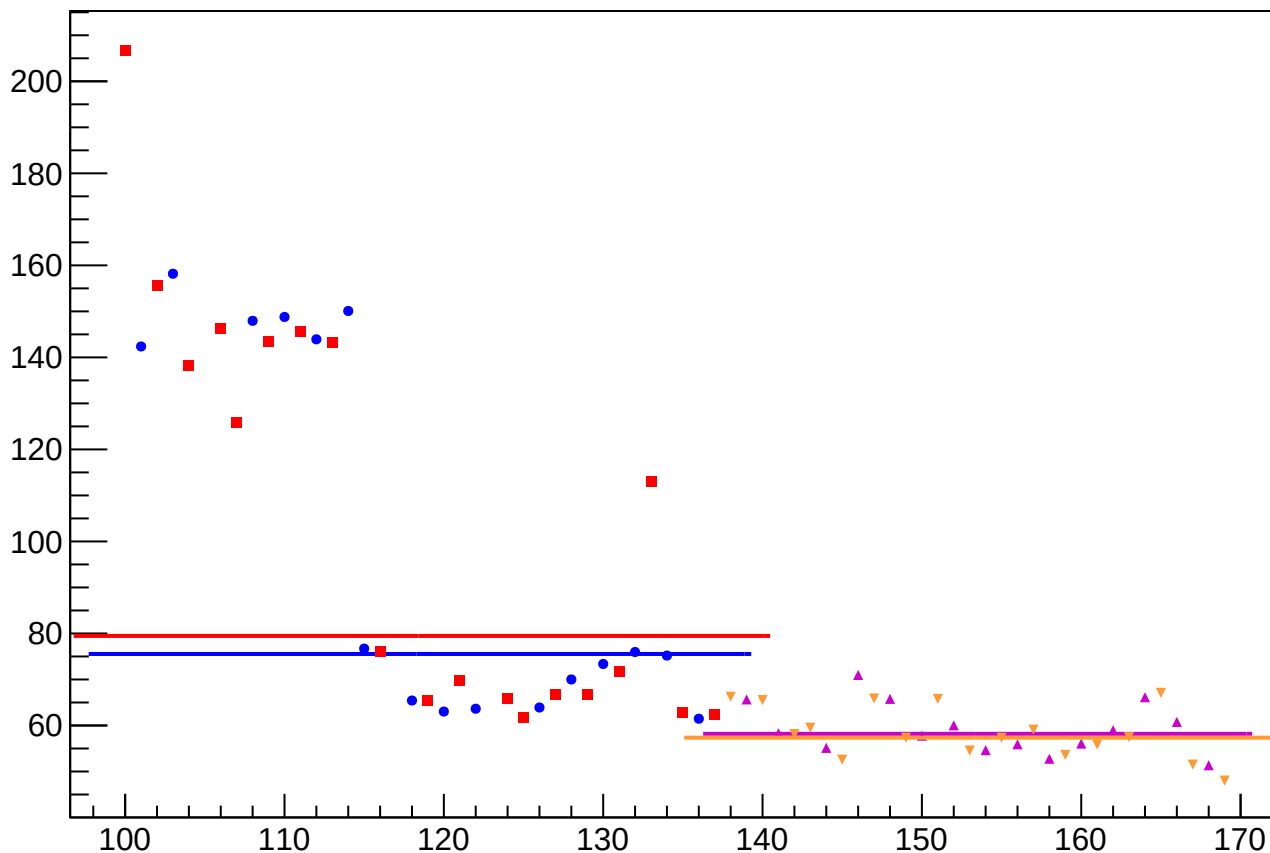
Right: 43.677 $\pm$ 21.607 χ^2 /NDF: 42.9/34

In: 52.854 $\pm$ 14.598 χ^2 /NDF:37.7/30

Out: 23.978 $\pm$ 14.121 χ^2 /NDF:46.7/35

All: 37.937 $\pm$ 10.150 χ^2 /NDF: 86.4/66

dit_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 75.544+/-0.021 χ^2/NDF : 1465550.9/15

Left Out: 57.355+/-0.011 χ^2/NDF :244570.1/16

Right Out: 79.465+/-0.022 χ^2/NDF : 1683634.3/18

Left In: 58.188+/-0.012 χ^2/NDF :184978.6/14

Left: 57.749+/-0.008 χ^2/NDF : 432165.8/31

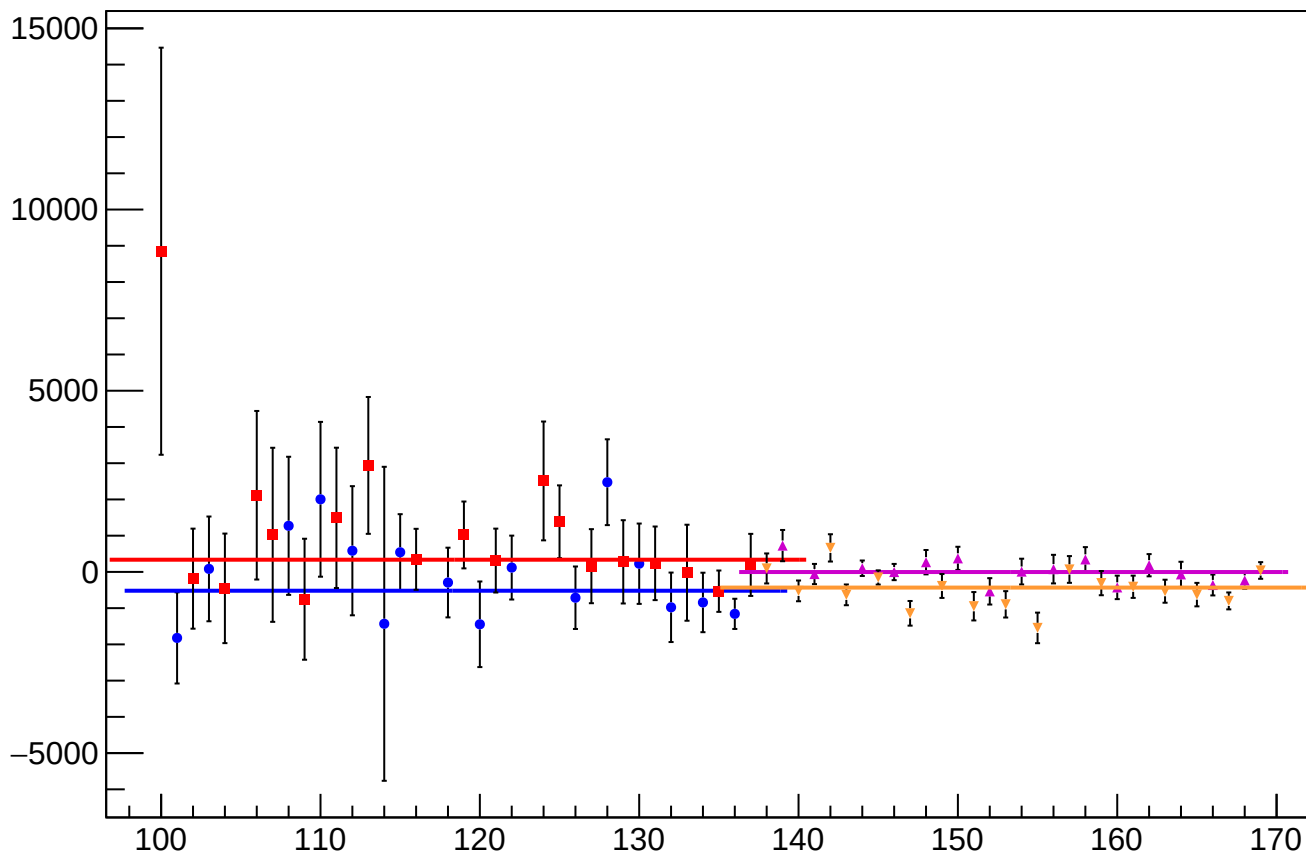
Right: 77.419+/-0.015 χ^2/NDF : 3165620.3/34

In: 62.323+/-0.010 χ^2/NDF :2163568.1/30

Out: 61.871+/-0.010 χ^2/NDF :2725011.6/35

All: 62.090+/-0.007 χ^2/NDF : 4889573.5/66

asym_sam_1526_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -519.250 ± 241.317 χ^2/NDF : 15.8/15

Left Out: -432.389 ± 73.636 χ^2/NDF : 36.5/16

Right Out: 336.731 ± 256.618 χ^2/NDF : 11.9/18

Left In: -3.228 ± 76.996 χ^2/NDF : 13.1/14

Left: -227.376 ± 53.217 χ^2/NDF : 65.9/31

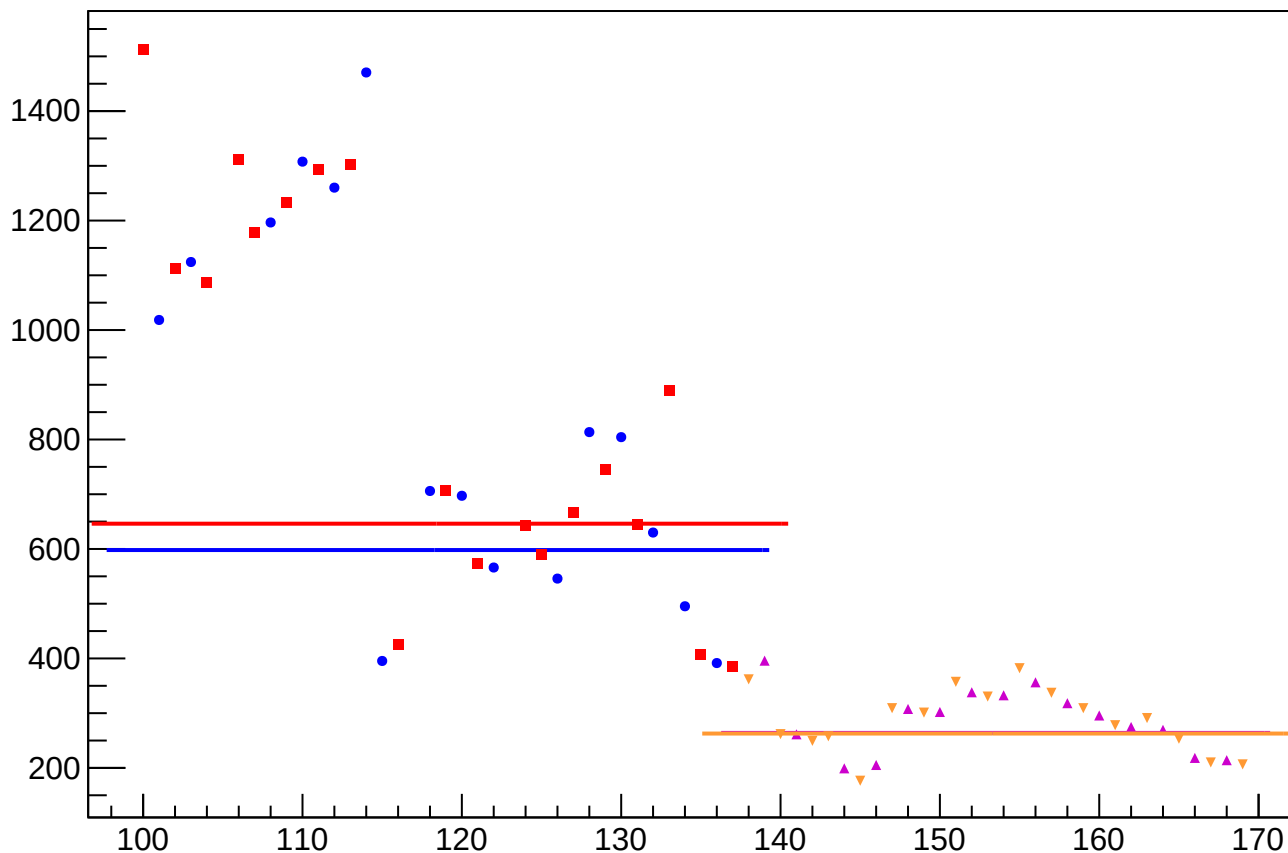
Right: -117.538 ± 175.797 χ^2/NDF : 33.6/34

In: -50.907 ± 73.353 χ^2/NDF : 33.1/30

Out: -373.878 ± 70.780 χ^2/NDF : 56.7/35

All: -218.156 ± 50.934 χ^2/NDF : 99.8/66

asym_sam_1526_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 598.044+/-0.171 χ^2/NDF : 2047825.1/15

Left Out: 262.770+/-0.052 χ^2/NDF :1277815.5/16

Right Out: 646.190+/-0.181 χ^2/NDF : 2205437.4/18

Left In: 263.942+/-0.054 χ^2/NDF :1056472.1/14

Left: 263.330+/-0.038 χ^2/NDF : 2334529.4/31

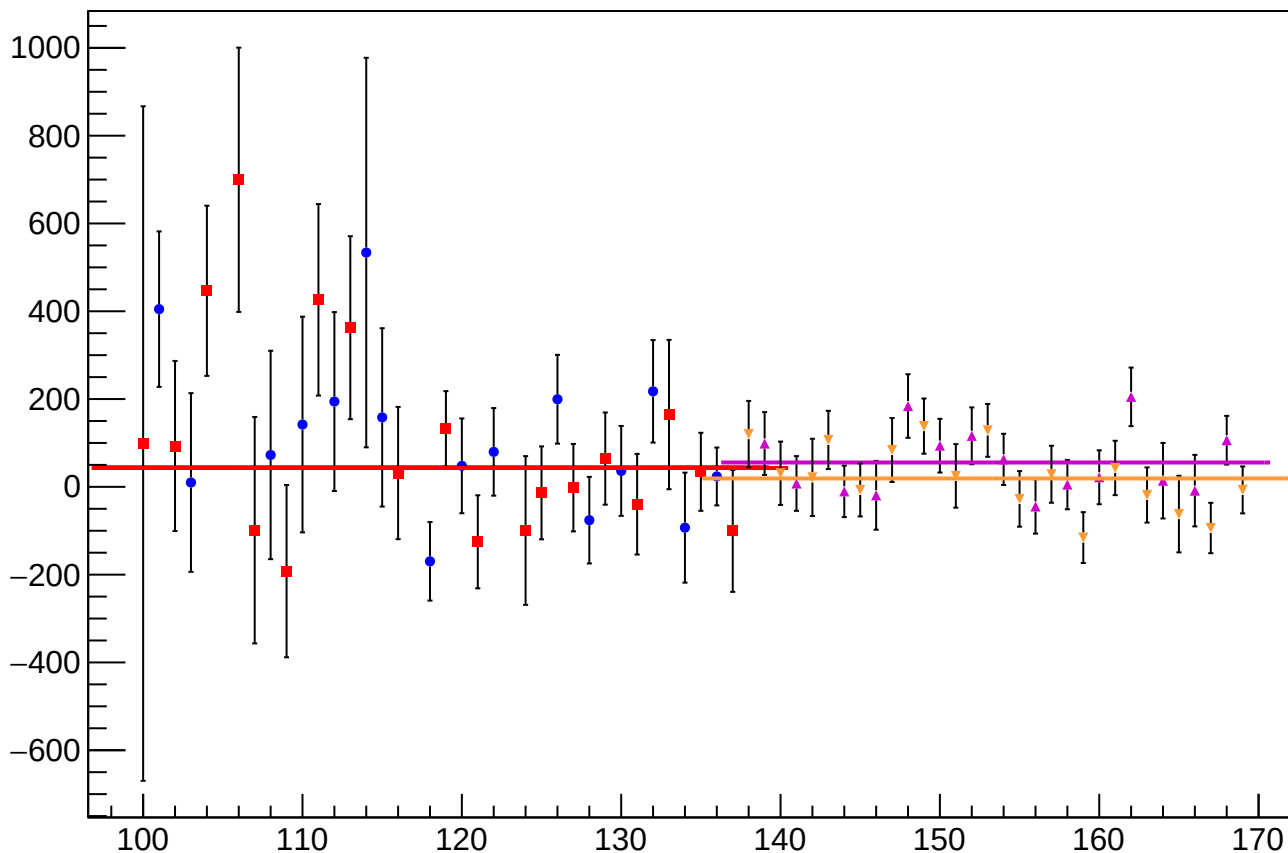
Right: 620.639+/-0.124 χ^2/NDF : 4290624.3/34

In: 294.812+/-0.052 χ^2/NDF :6583750.5/30

Out: 291.939+/-0.050 χ^2/NDF :7608429.5/35

All: 293.324+/-0.036 χ^2/NDF : 14193768.5/66

eigen_dit_asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 44.389 $\pm$ 29.908 χ^2 /NDF: 19.6/15

Left Out: 19.123 $\pm$ 15.830 χ^2 /NDF:22.9/16

Right Out: 42.900 $\pm$ 31.248 χ^2 /NDF: 23.3/18

Left In: 55.501 $\pm$ 16.726 χ^2 /NDF:18.0/14

Left: 36.311 $\pm$ 11.497 χ^2 /NDF: 43.4/31

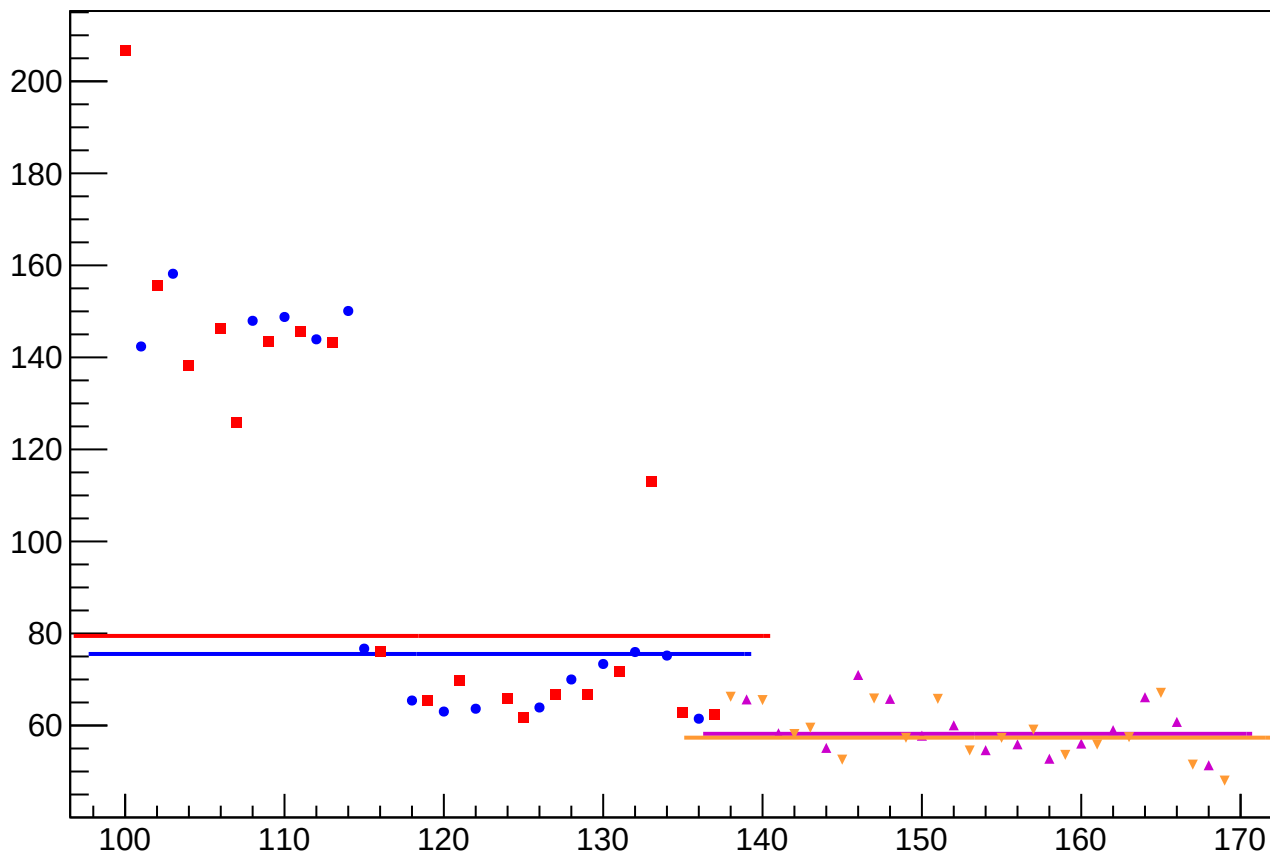
Right: 43.677 $\pm$ 21.607 χ^2 /NDF: 42.9/34

In: 52.853 $\pm$ 14.599 χ^2 /NDF:37.7/30

Out: 23.979 $\pm$ 14.121 χ^2 /NDF:46.7/35

All: 37.936 $\pm$ 10.150 χ^2 /NDF: 86.4/66

eigen_dit_asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 75.544 $\pm$ 0.021 χ^2 /NDF: 1465535.8/15

Left Out: 57.356 $\pm$ 0.011 χ^2 /NDF:244566.8/16

Right Out: 79.465 $\pm$ 0.022 χ^2 /NDF: 1683627.3/18

Left In: 58.189 $\pm$ 0.012 χ^2 /NDF:184982.1/14

Left: 57.749 $\pm$ 0.008 χ^2 /NDF: 432166.2/31

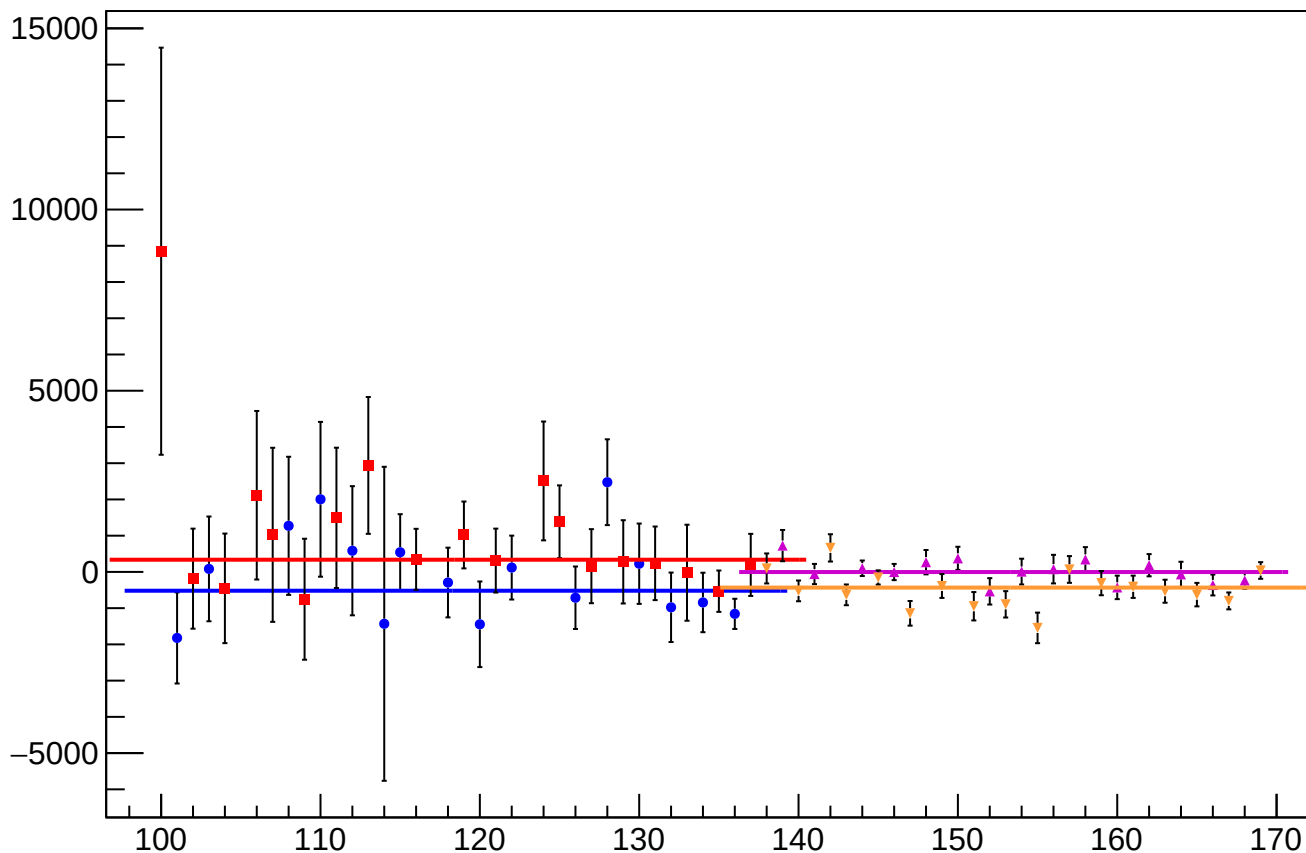
Right: 77.419 $\pm$ 0.015 χ^2 /NDF: 3165598.5/34

In: 62.324 $\pm$ 0.010 χ^2 /NDF:2163530.6/30

Out: 61.871 $\pm$ 0.010 χ^2 /NDF:2724974.7/35

All: 62.090 $\pm$ 0.007 χ^2 /NDF: 4889499.2/66

asym_sam_1526_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -519.247 ± 241.316 $\chi^2/\text{NDF}: 15.8/15$

Left Out: -432.388 ± 73.636 $\chi^2/\text{NDF}: 36.5/16$

Right Out: 336.731 ± 256.617 $\chi^2/\text{NDF}: 11.9/18$

Left In: -3.228 ± 76.996 $\chi^2/\text{NDF}: 13.1/14$

Left: -227.376 ± 53.217 $\chi^2/\text{NDF}: 65.9/31$

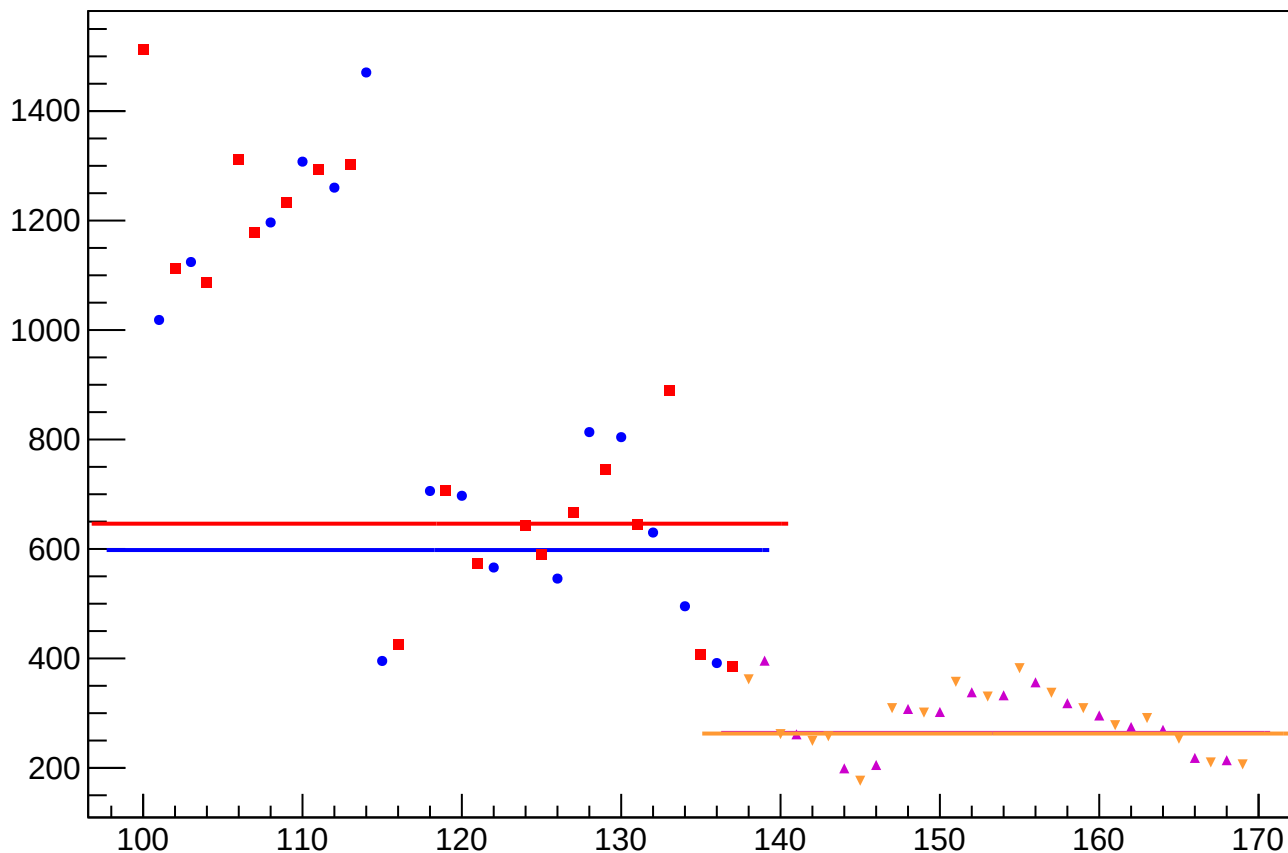
Right: -117.537 ± 175.797 $\chi^2/\text{NDF}: 33.6/34$

In: -50.907 ± 73.353 $\chi^2/\text{NDF}: 33.1/30$

Out: -373.877 ± 70.780 $\chi^2/\text{NDF}: 56.7/35$

All: -218.155 ± 50.934 $\chi^2/\text{NDF}: 99.8/66$

asym_sam_1526_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 598.044+/-0.171 χ^2/NDF : 2047806.5/15

Left Out: 262.770+/-0.052 χ^2/NDF :1277826.9/16

Right Out: 646.190+/-0.181 χ^2/NDF : 2205421.4/18

Left In: 263.941+/-0.054 χ^2/NDF :1056467.3/14

Left: 263.329+/-0.038 χ^2/NDF : 2334536.2/31

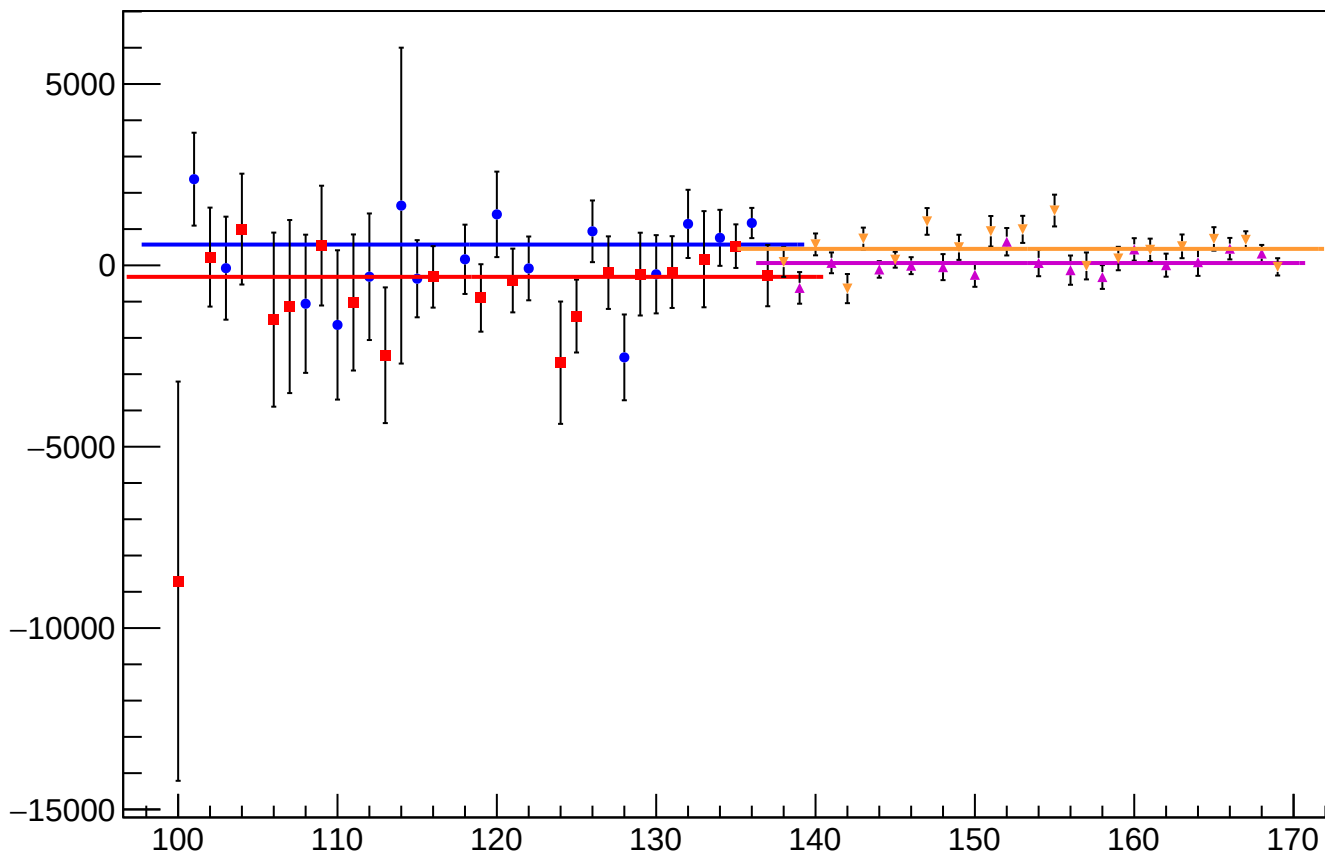
Right: 620.638+/-0.124 χ^2/NDF : 4290589.9/34

In: 294.811+/-0.052 χ^2/NDF :6583732.8/30

Out: 291.938+/-0.050 χ^2/NDF :7608439.0/35

All: 293.324+/-0.036 χ^2/NDF : 14193760.7/66

asym_sam_1526_avg_mean vs Slug, Sign Corrected



Right In: 573.374 $\pm$ 238.921 χ^2 /NDF: 16.6/15

Left Out: 454.634 $\pm$ 76.650 χ^2 /NDF:33.1/16

Right Out: -316.830 $\pm$ 258.239 χ^2 /NDF: 11.0/18

Left In: 64.294 $\pm$ 79.480 χ^2 /NDF:12.8/14

Left: 266.536 $\pm$ 55.173 χ^2 /NDF: 58.3/31

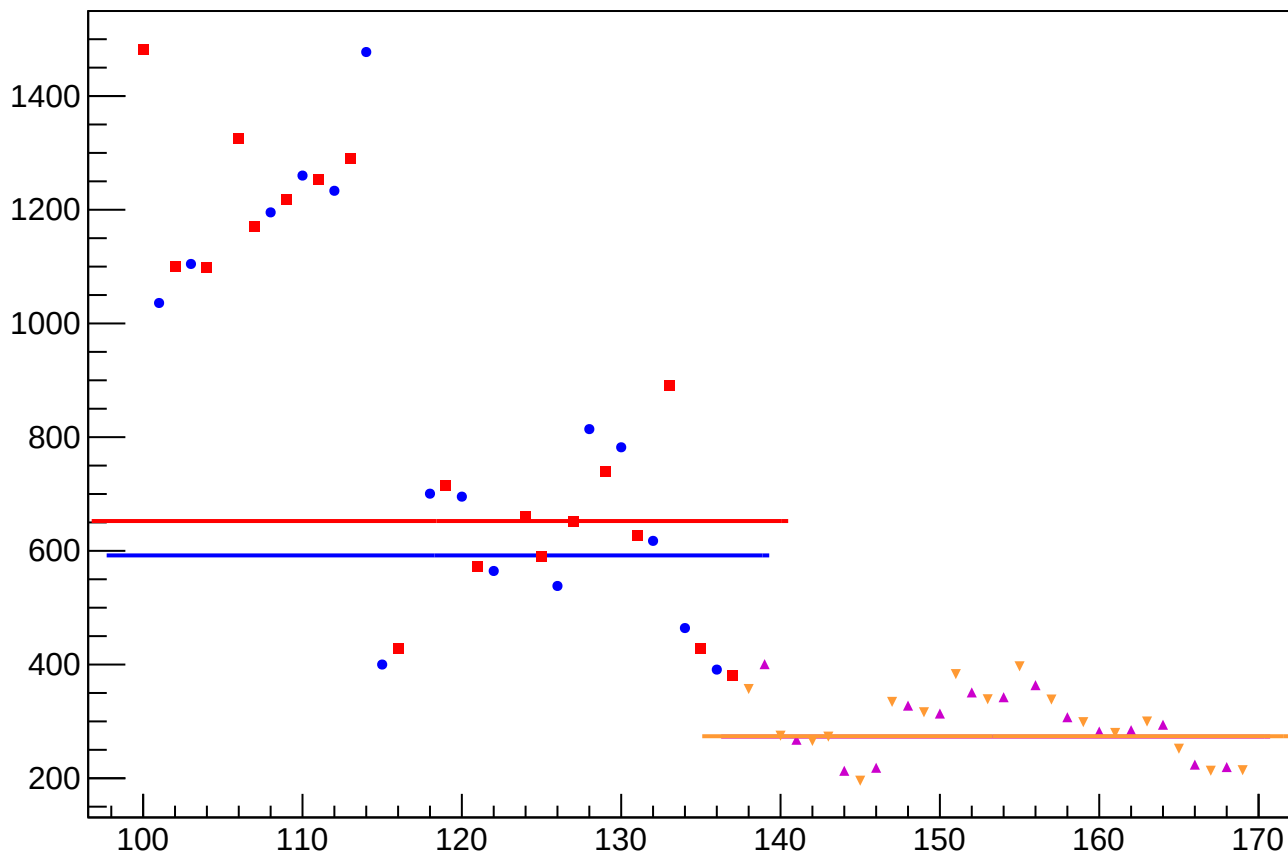
Right: 162.809 $\pm$ 175.375 χ^2 /NDF: 34.0/34

In: 115.017 $\pm$ 75.416 χ^2 /NDF:33.4/30

Out: 392.170 $\pm$ 73.482 χ^2 /NDF:52.3/35

All: 257.194 $\pm$ 52.630 χ^2 /NDF: 92.6/66

asym_sam_1526_avg_rms vs Slug, Sign Corrected



Right In: 591.974 $\pm$ 0.169 χ^2/NDF : 2035700.6/15

Left Out: 273.905 $\pm$ 0.054 χ^2/NDF :1125896.2/16

Right Out: 652.459 $\pm$ 0.183 χ^2/NDF : 2089983.3/18

Left In: 273.298 $\pm$ 0.056 χ^2/NDF :942722.2/14

Left: 273.612 $\pm$ 0.039 χ^2/NDF : 2068678.8/31

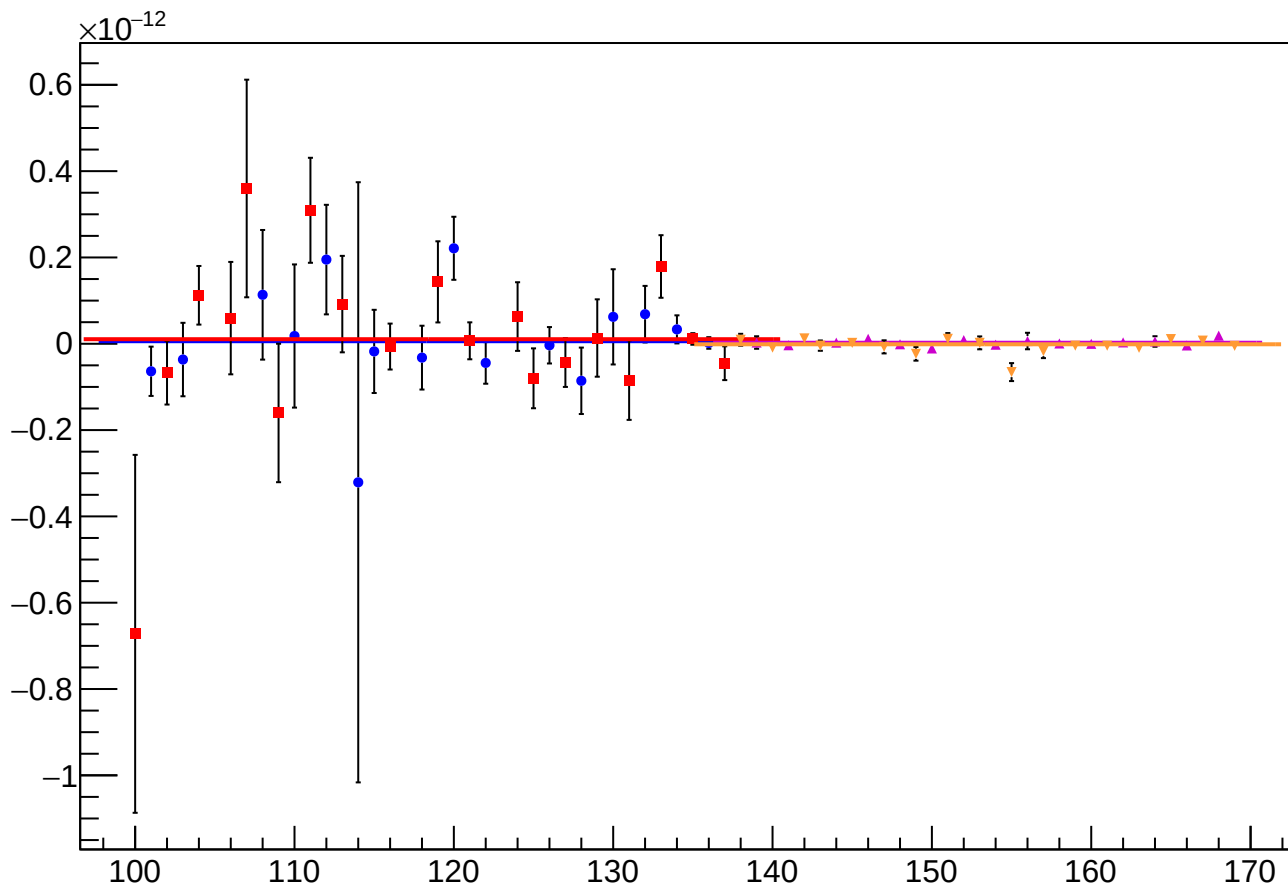
Right: 619.870 $\pm$ 0.124 χ^2/NDF : 4184800.0/34

In: 305.050 $\pm$ 0.053 χ^2/NDF :6182011.9/30

Out: 304.556 $\pm$ 0.052 χ^2/NDF :7165674.9/35

All: 304.796 $\pm$ 0.037 χ^2/NDF : 13347730.9/66

asym_sam_1526_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2/NDF : 18.2/15

Left Out: -0.000 $\pm$ 0.000 χ^2/NDF : 21.6/16

Right Out: 0.000 $\pm$ 0.000 χ^2/NDF : 29.5/18

Left In: 0.000 $\pm$ 0.000 χ^2/NDF : 8.6/14

Left: 0.000 $\pm$ 0.000 χ^2/NDF : 31.3/31

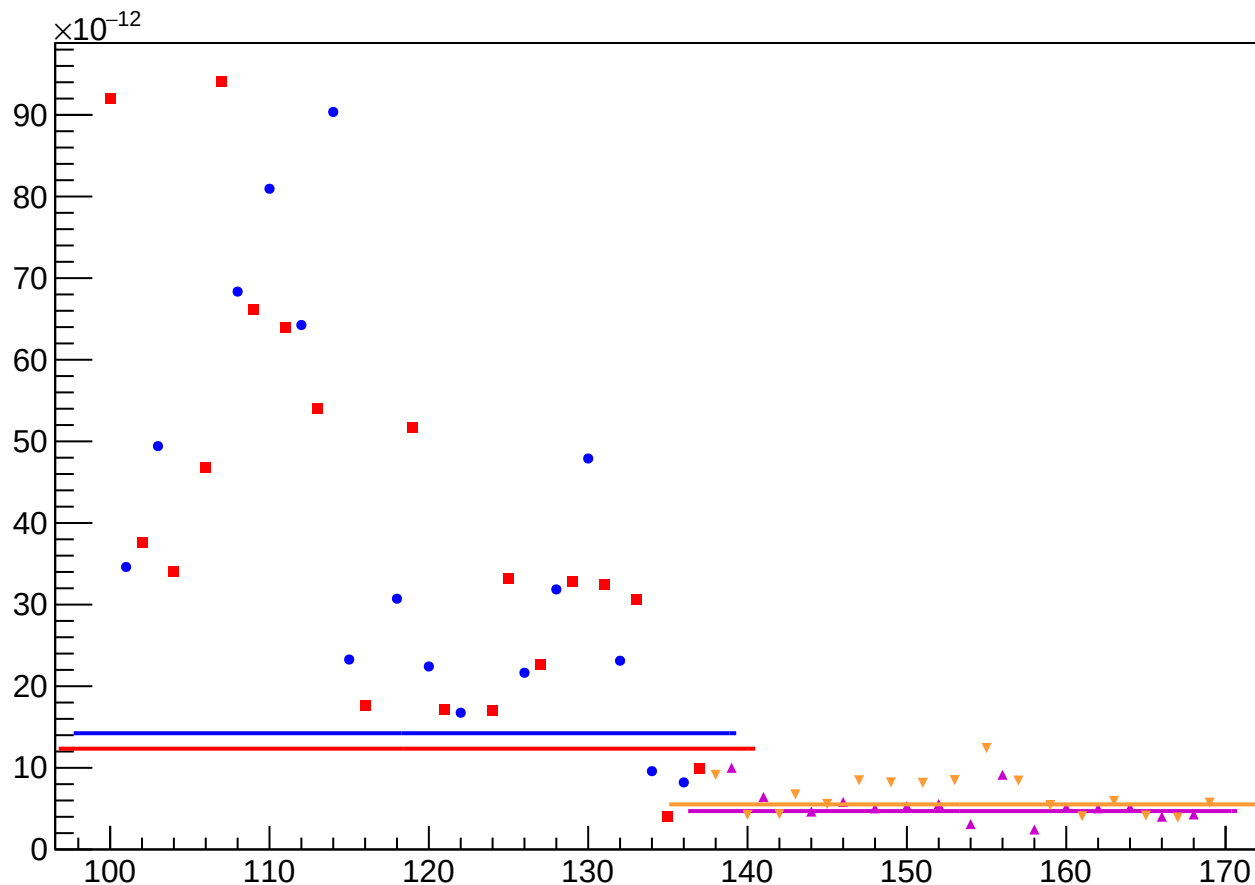
Right: 0.000 $\pm$ 0.000 χ^2/NDF : 47.8/34

In: 0.000 $\pm$ 0.000 χ^2/NDF : 27.0/30

Out: -0.000 $\pm$ 0.000 χ^2/NDF : 52.2/35

All: 0.000 $\pm$ 0.000 χ^2/NDF : 80.1/66

asym_sam_1526_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2493527.4/15

Left Out: 0.000+/-0.000 χ^2/NDF :1064451.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3472954.4/18

Left In: 0.000+/-0.000 χ^2/NDF :791415.2/14

Left: 0.000+/-0.000 χ^2/NDF : 1965321.8/31

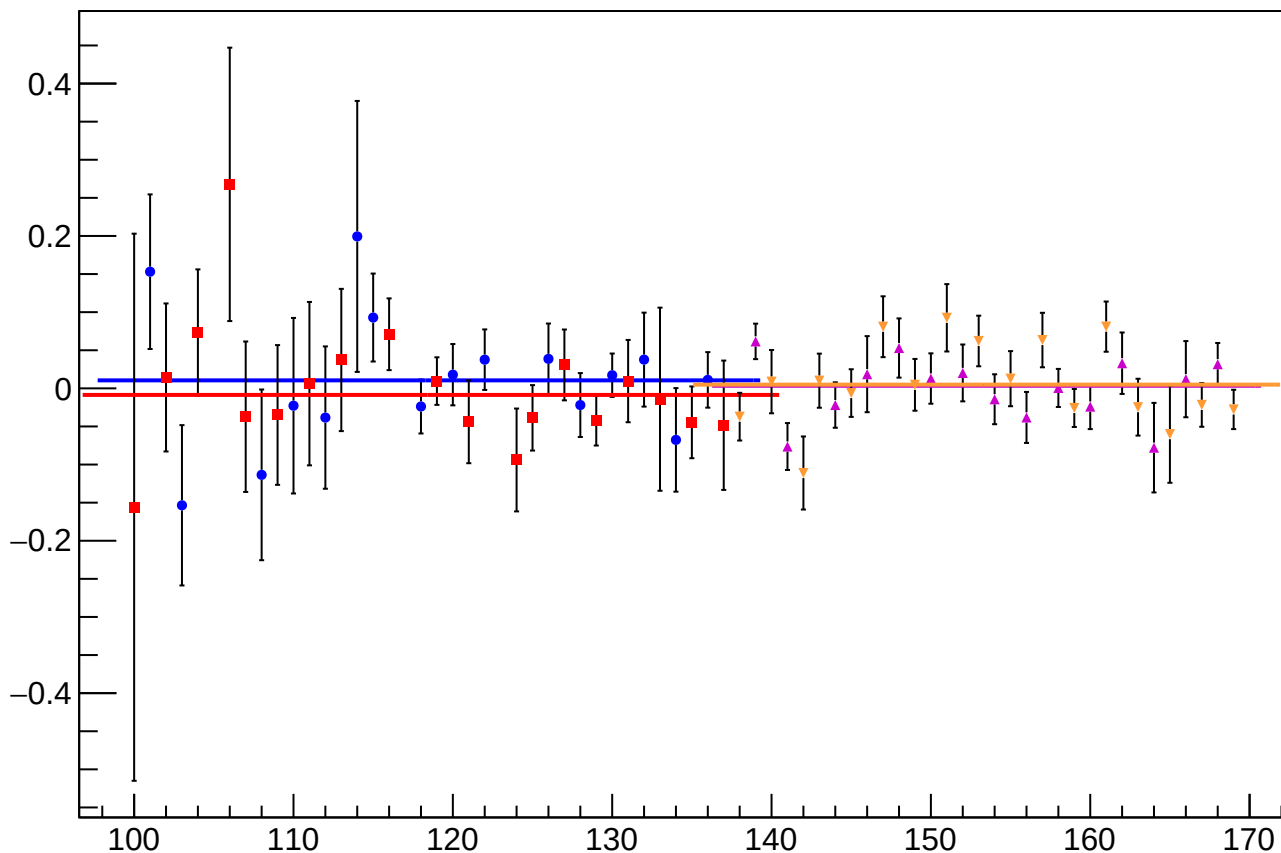
Right: 0.000+/-0.000 χ^2/NDF : 5998748.7/34

In: 0.000+/-0.000 χ^2/NDF :4843563.4/30

Out: 0.000+/-0.000 χ^2/NDF :5331861.4/35

All: 0.000+/-0.000 χ^2/NDF : 10258905.4/66

asym_sam_1526_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.013 χ^2 /NDF: 13.1/15

Left Out: 0.005 $\pm$ 0.008 χ^2 /NDF:32.0/16

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.003 $\pm$ 0.008 χ^2 /NDF:21.9/14

Left: 0.004 $\pm$ 0.006 χ^2 /NDF: 54.0/31

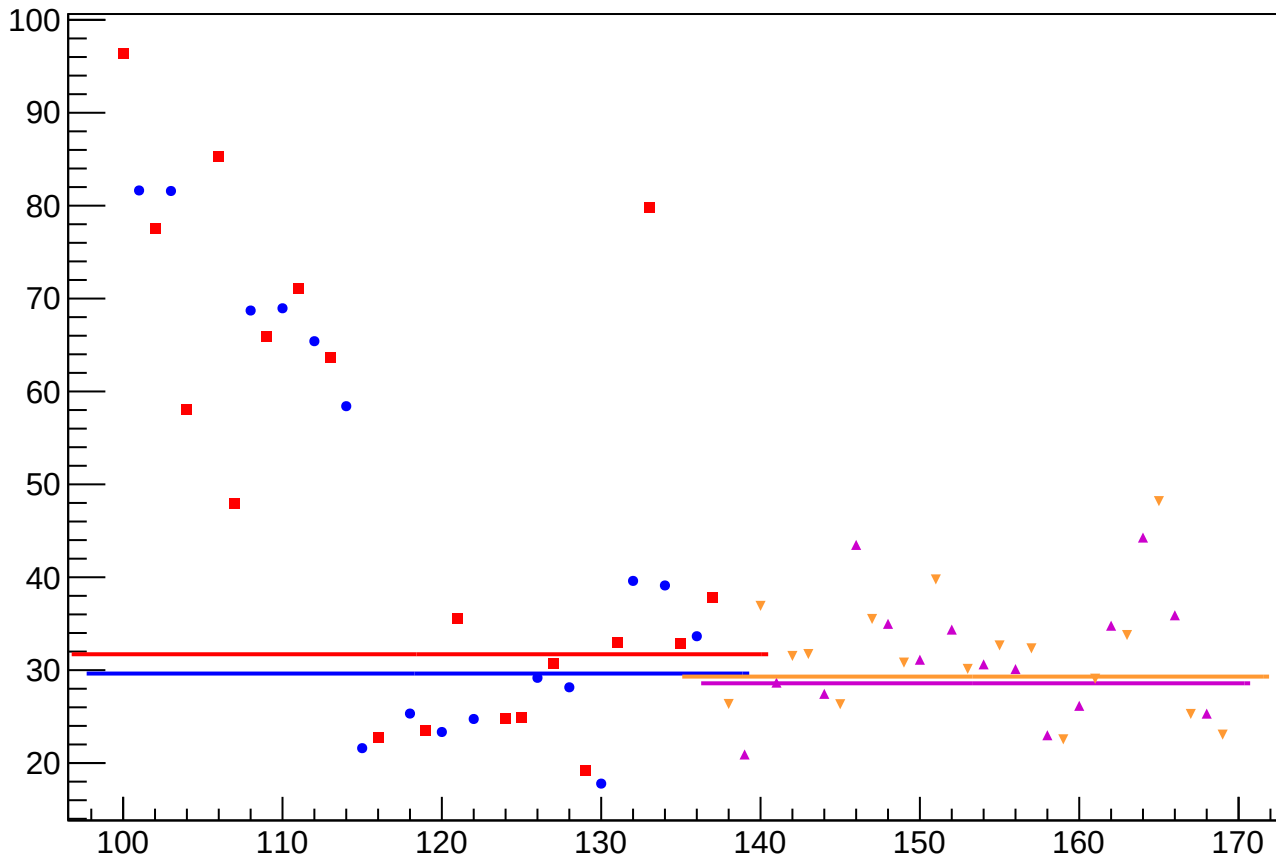
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.006 $\pm$ 0.007 χ^2 /NDF:35.3/30

Out: 0.001 $\pm$ 0.007 χ^2 /NDF:45.2/35

All: 0.003 $\pm$ 0.005 χ^2 /NDF: 80.7/66

asym_sam_1526_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.635+/-0.009 χ^2/NDF : 2448468.0/15

Left Out: 29.306+/-0.006 χ^2/NDF : 821151.4/16

Right Out: 31.712+/-0.009 χ^2/NDF : 2651470.3/18

Left In: 28.585+/-0.006 χ^2/NDF : 897394.9/14

Left: 28.954+/-0.004 χ^2/NDF : 1725946.6/31

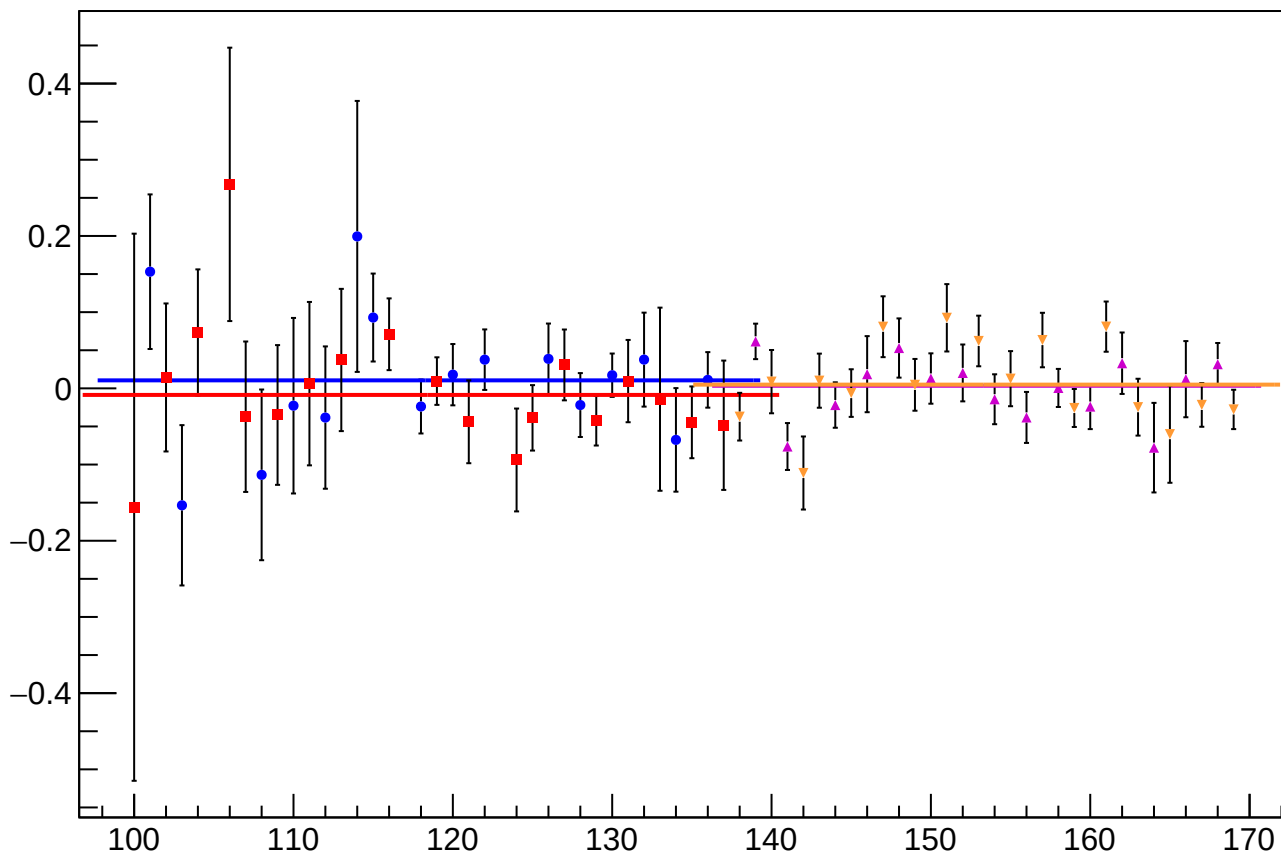
Right: 30.618+/-0.006 χ^2/NDF : 5125863.2/34

In: 28.914+/-0.005 χ^2/NDF : 3355463.4/30

Out: 29.985+/-0.005 χ^2/NDF : 3520028.5/35

All: 29.449+/-0.004 χ^2/NDF : 6898700.8/66

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.013 χ^2 /NDF: 13.1/15

Left Out: 0.005 $\pm$ 0.008 χ^2 /NDF:32.0/16

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.003 $\pm$ 0.008 χ^2 /NDF:21.9/14

Left: 0.004 $\pm$ 0.006 χ^2 /NDF: 54.0/31

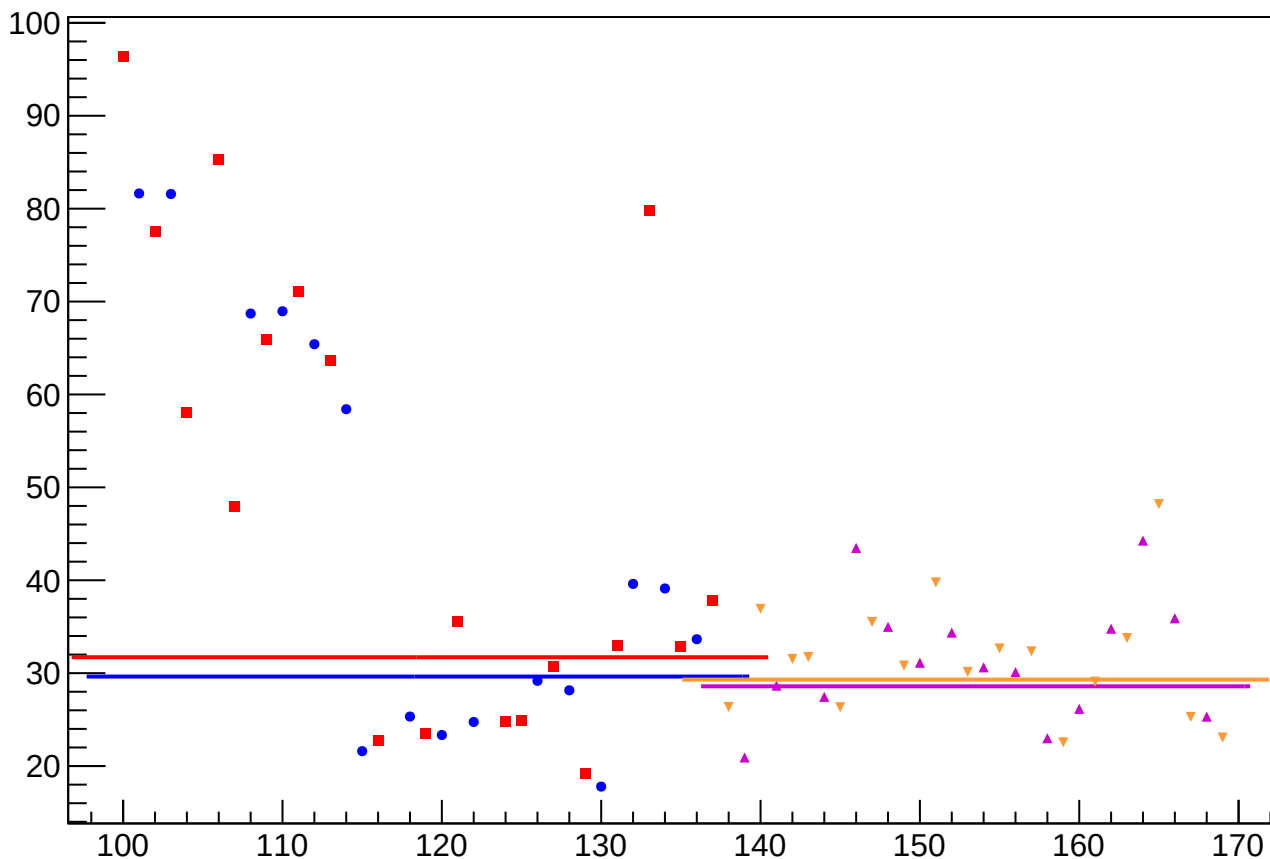
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.006 $\pm$ 0.007 χ^2 /NDF:35.3/30

Out: 0.001 $\pm$ 0.007 χ^2 /NDF:45.2/35

All: 0.003 $\pm$ 0.005 χ^2 /NDF: 80.7/66

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.635 $\pm$ 0.009 χ^2 /NDF: 2448468.0/15

Left Out: 29.306 $\pm$ 0.006 χ^2 /NDF: 821151.4/16

Right Out: 31.712 $\pm$ 0.009 χ^2 /NDF: 2651470.3/18

Left In: 28.585 $\pm$ 0.006 χ^2 /NDF: 897394.9/14

Left: 28.954 $\pm$ 0.004 χ^2 /NDF: 1725946.6/31

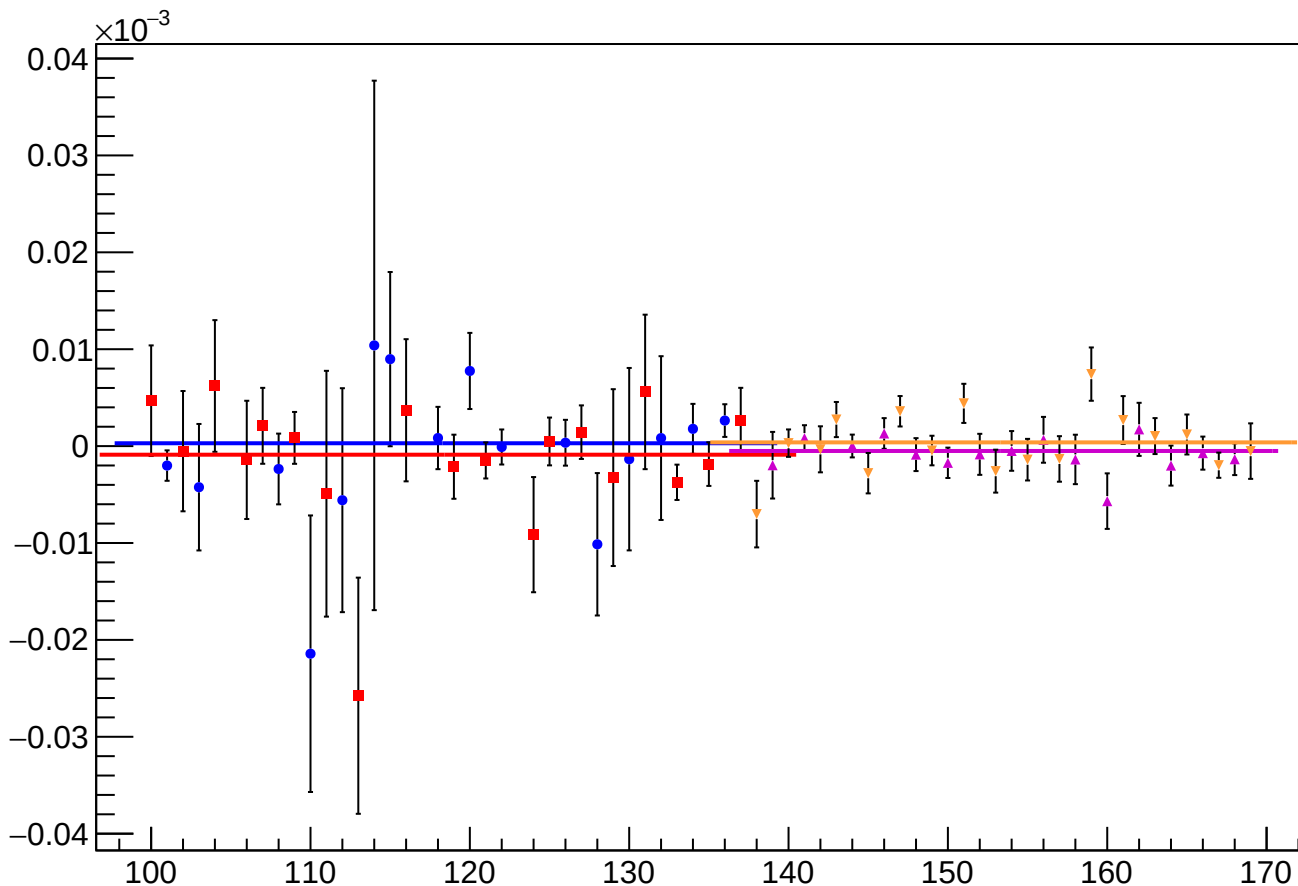
Right: 30.618 $\pm$ 0.006 χ^2 /NDF: 5125863.2/34

In: 28.914 $\pm$ 0.005 χ^2 /NDF: 3355463.4/30

Out: 29.985 $\pm$ 0.005 χ^2 /NDF: 3520028.5/35

All: 29.449 $\pm$ 0.004 χ^2 /NDF: 6898700.8/66

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.8/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:31.3/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 15.4/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:8.4/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 41.5/31

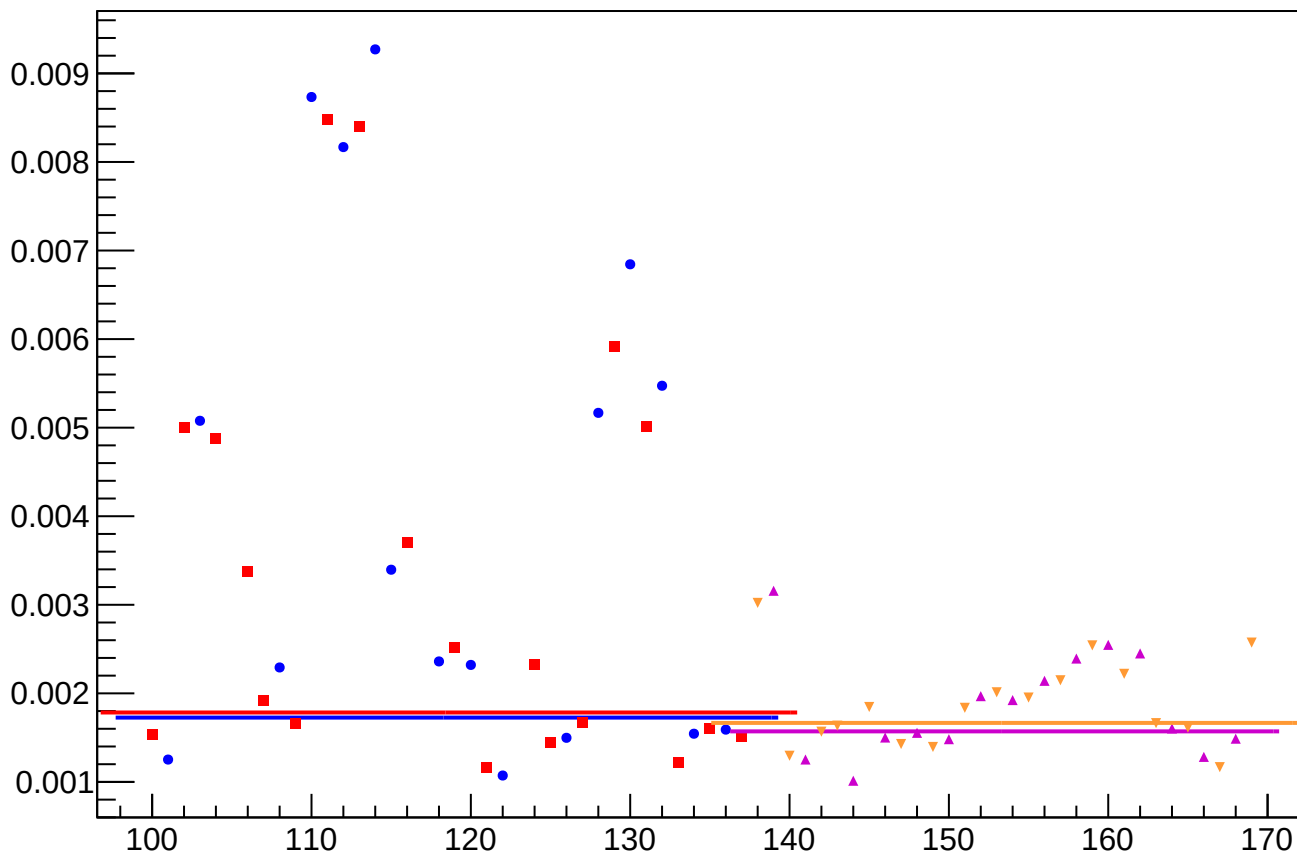
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 31.3/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:24.0/30

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:48.7/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 73.0/66

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3932244.6/15

Left Out: 0.002+/-0.000 χ^2/NDF :1559467.1/16

Right Out: 0.002+/-0.000 χ^2/NDF : 3718778.6/18

Left In: 0.002+/-0.000 χ^2/NDF :1954489.2/14

Left: 0.002+/-0.000 χ^2/NDF : 3555320.9/31

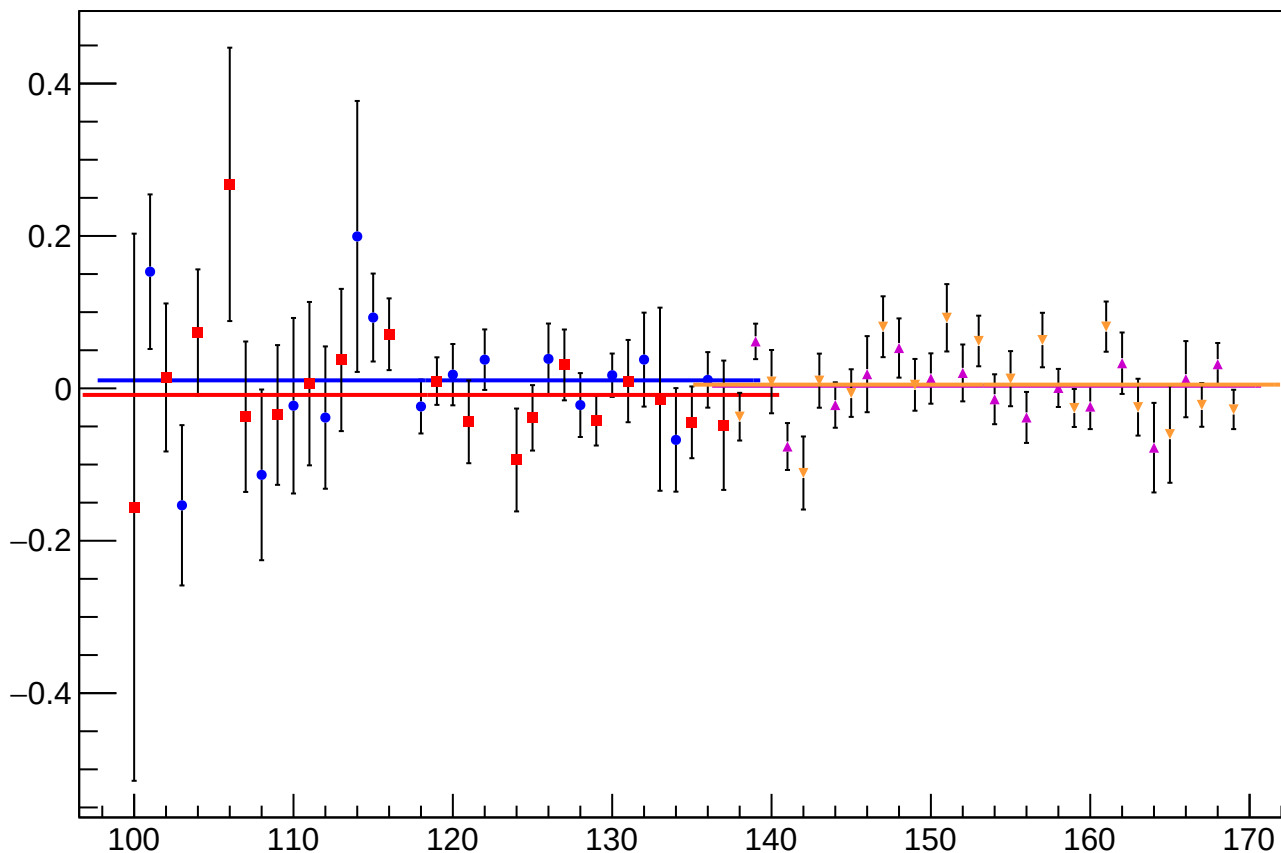
Right: 0.002+/-0.000 χ^2/NDF : 7656643.6/34

In: 0.002+/-0.000 χ^2/NDF :5947114.2/30

Out: 0.002+/-0.000 χ^2/NDF :5311771.8/35

All: 0.002+/-0.000 χ^2/NDF : 11303094.1/66

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.013 χ^2 /NDF: 13.1/15

Left Out: 0.005 $\pm$ 0.008 χ^2 /NDF:32.0/16

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.003 $\pm$ 0.008 χ^2 /NDF:21.9/14

Left: 0.004 $\pm$ 0.006 χ^2 /NDF: 54.0/31

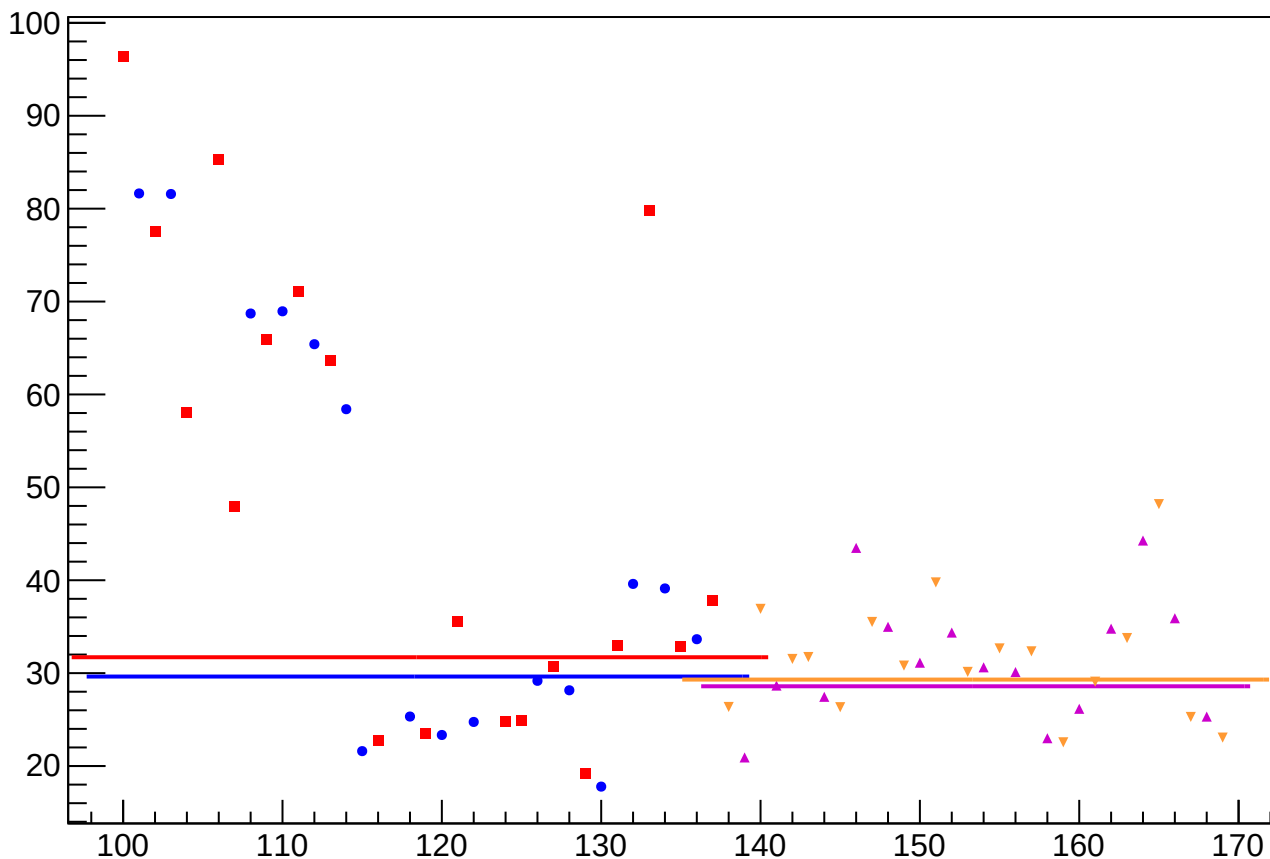
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.006 $\pm$ 0.007 χ^2 /NDF:35.3/30

Out: 0.001 $\pm$ 0.007 χ^2 /NDF:45.2/35

All: 0.003 $\pm$ 0.005 χ^2 /NDF: 80.7/66

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.633 $\pm$ 0.009 χ^2 /NDF: 2448670.6/15

Left Out: 29.307 $\pm$ 0.006 χ^2 /NDF: 821152.1/16

Right Out: 31.711 $\pm$ 0.009 χ^2 /NDF: 2651638.6/18

Left In: 28.585 $\pm$ 0.006 χ^2 /NDF: 897417.4/14

Left: 28.954 $\pm$ 0.004 χ^2 /NDF: 1725968.4/31

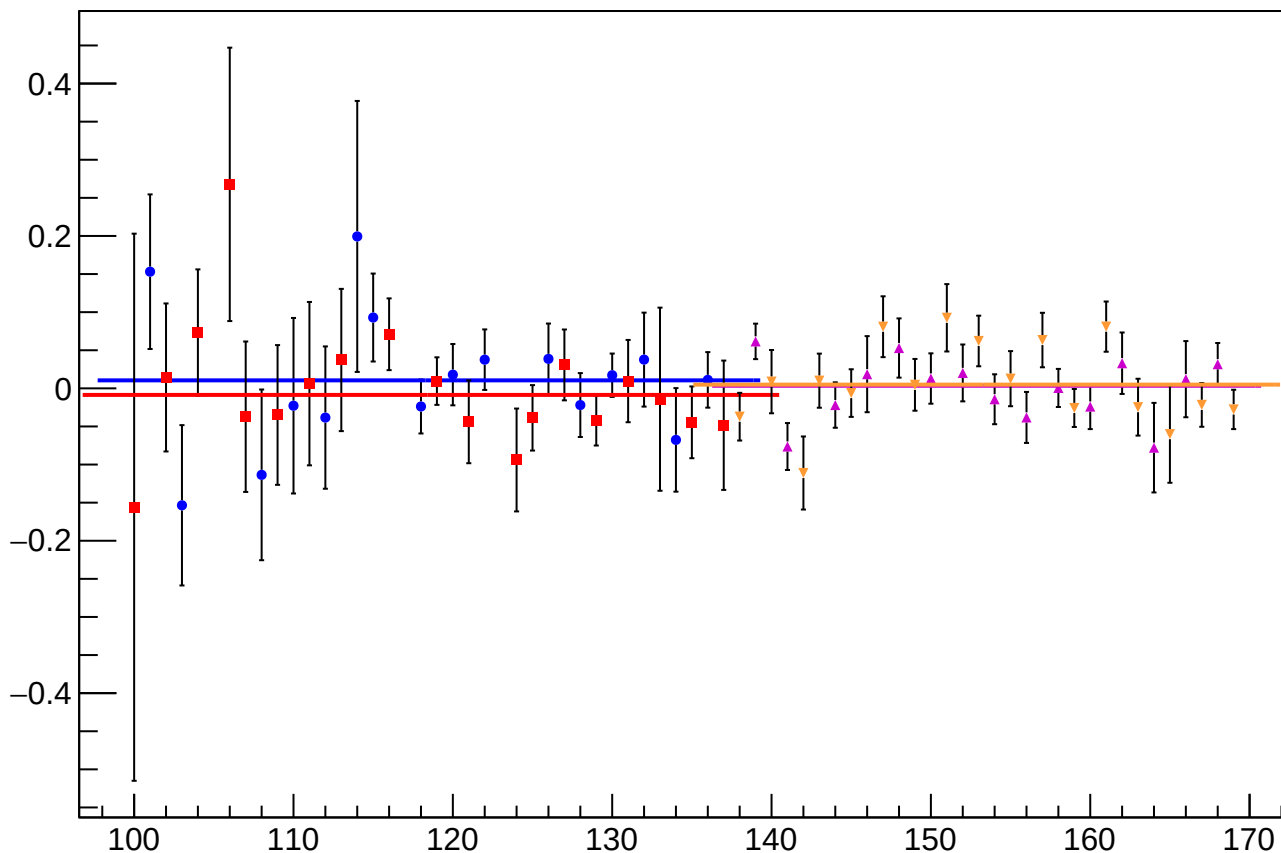
Right: 30.617 $\pm$ 0.006 χ^2 /NDF: 5126235.3/34

In: 28.914 $\pm$ 0.005 χ^2 /NDF: 3355659.6/30

Out: 29.985 $\pm$ 0.005 χ^2 /NDF: 3520137.7/35

All: 29.449 $\pm$ 0.004 χ^2 /NDF: 6899007.1/66

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.013 χ^2 /NDF: 13.1/15

Left Out: 0.005 $\pm$ 0.008 χ^2 /NDF:32.0/16

Right Out: -0.009 $\pm$ 0.013 χ^2 /NDF: 12.4/18

Left In: 0.003 $\pm$ 0.008 χ^2 /NDF:21.9/14

Left: 0.004 $\pm$ 0.006 χ^2 /NDF: 54.0/31

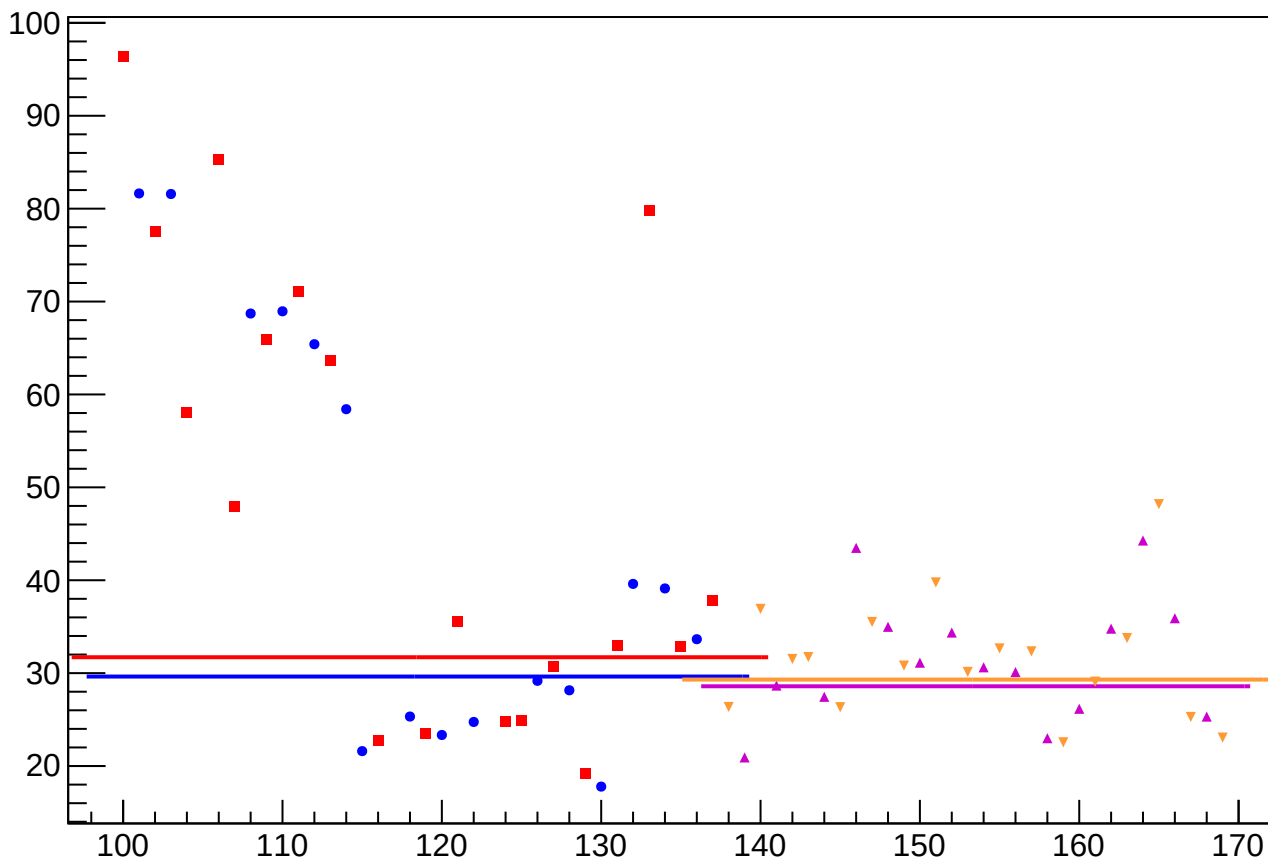
Right: 0.001 $\pm$ 0.009 χ^2 /NDF: 26.7/34

In: 0.006 $\pm$ 0.007 χ^2 /NDF:35.3/30

Out: 0.001 $\pm$ 0.007 χ^2 /NDF:45.2/35

All: 0.003 $\pm$ 0.005 χ^2 /NDF: 80.7/66

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.633+/-0.009 χ^2/NDF : 2448670.6/15

Left Out: 29.307+/-0.006 χ^2/NDF : 821152.1/16

Right Out: 31.711+/-0.009 χ^2/NDF : 2651638.6/18

Left In: 28.585+/-0.006 χ^2/NDF : 897417.4/14

Left: 28.954+/-0.004 χ^2/NDF : 1725968.4/31

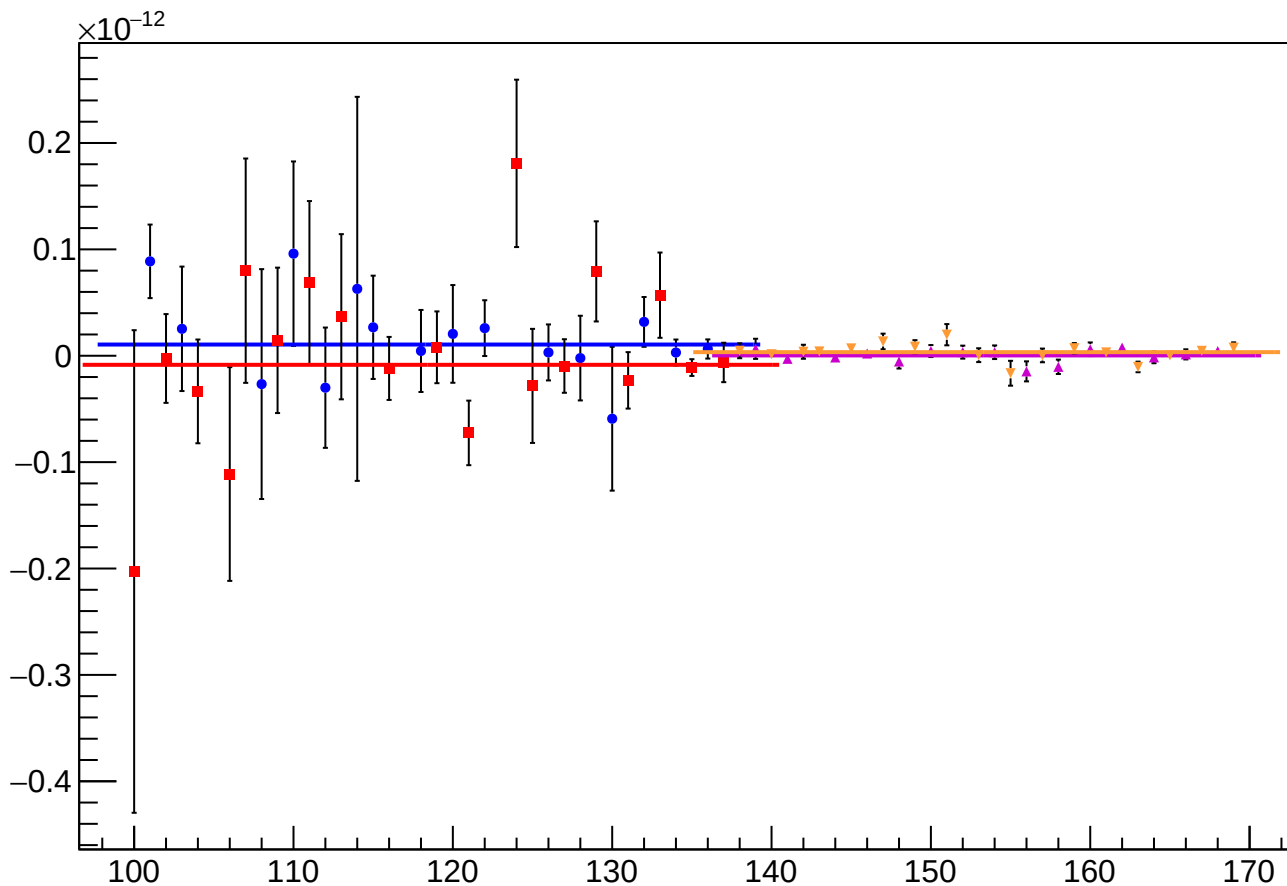
Right: 30.617+/-0.006 χ^2/NDF : 5126235.3/34

In: 28.914+/-0.005 χ^2/NDF : 3355659.6/30

Out: 29.985+/-0.005 χ^2/NDF : 3520137.7/35

All: 29.449+/-0.004 χ^2/NDF : 6899007.1/66

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 10.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :19.3/16

Right Out: -0.000+/-0.000 χ^2/NDF : 21.4/18

Left In: 0.000+/-0.000 χ^2/NDF :13.2/14

Left: 0.000+/-0.000 χ^2/NDF : 35.3/31

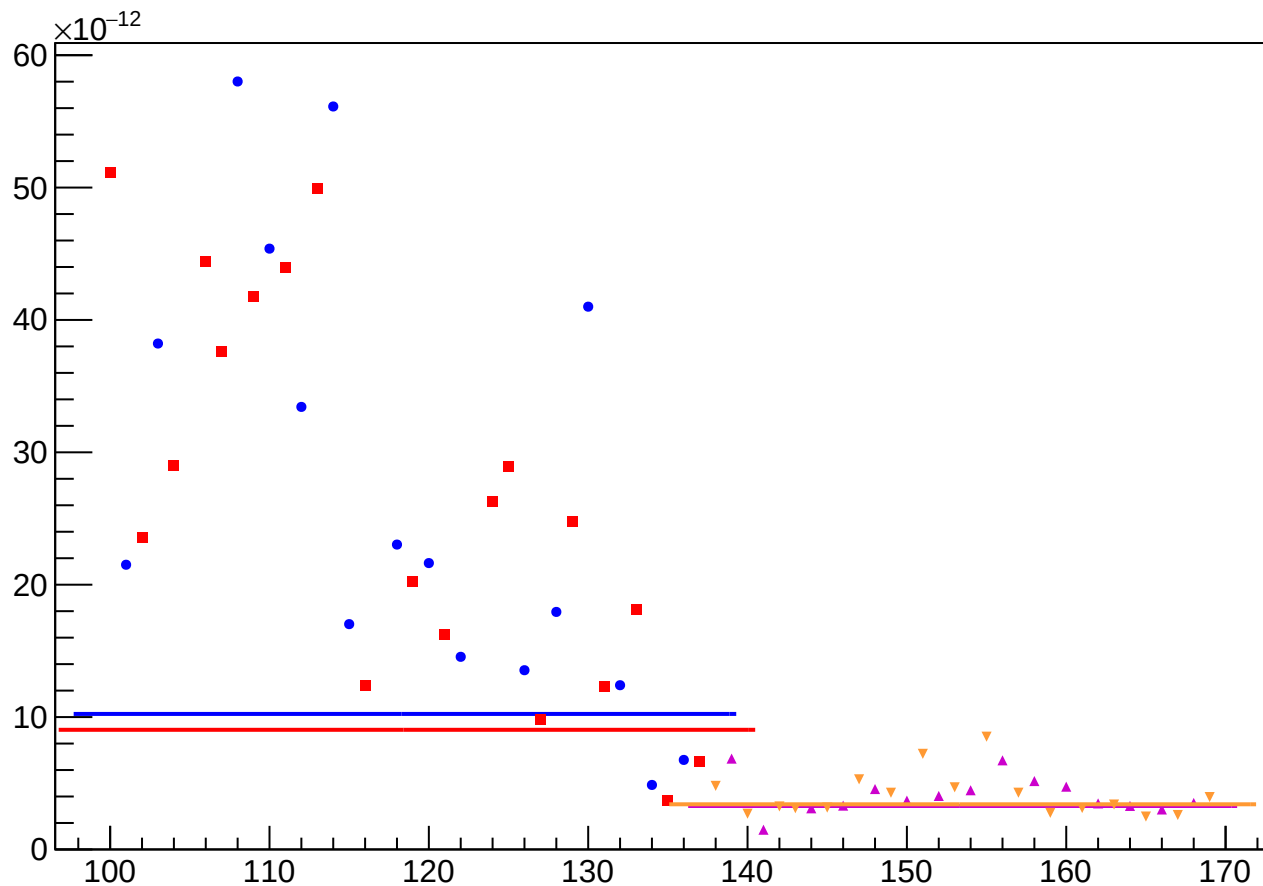
Right: 0.000+/-0.000 χ^2/NDF : 36.6/34

In: 0.000+/-0.000 χ^2/NDF :26.0/30

Out: 0.000+/-0.000 χ^2/NDF :44.6/35

All: 0.000+/-0.000 χ^2/NDF : 72.0/66

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3511693.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1386853.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4514368.5/18

Left In: 0.000+/-0.000 χ^2/NDF :1900590.1/14

Left: 0.000+/-0.000 χ^2/NDF : 3297589.8/31

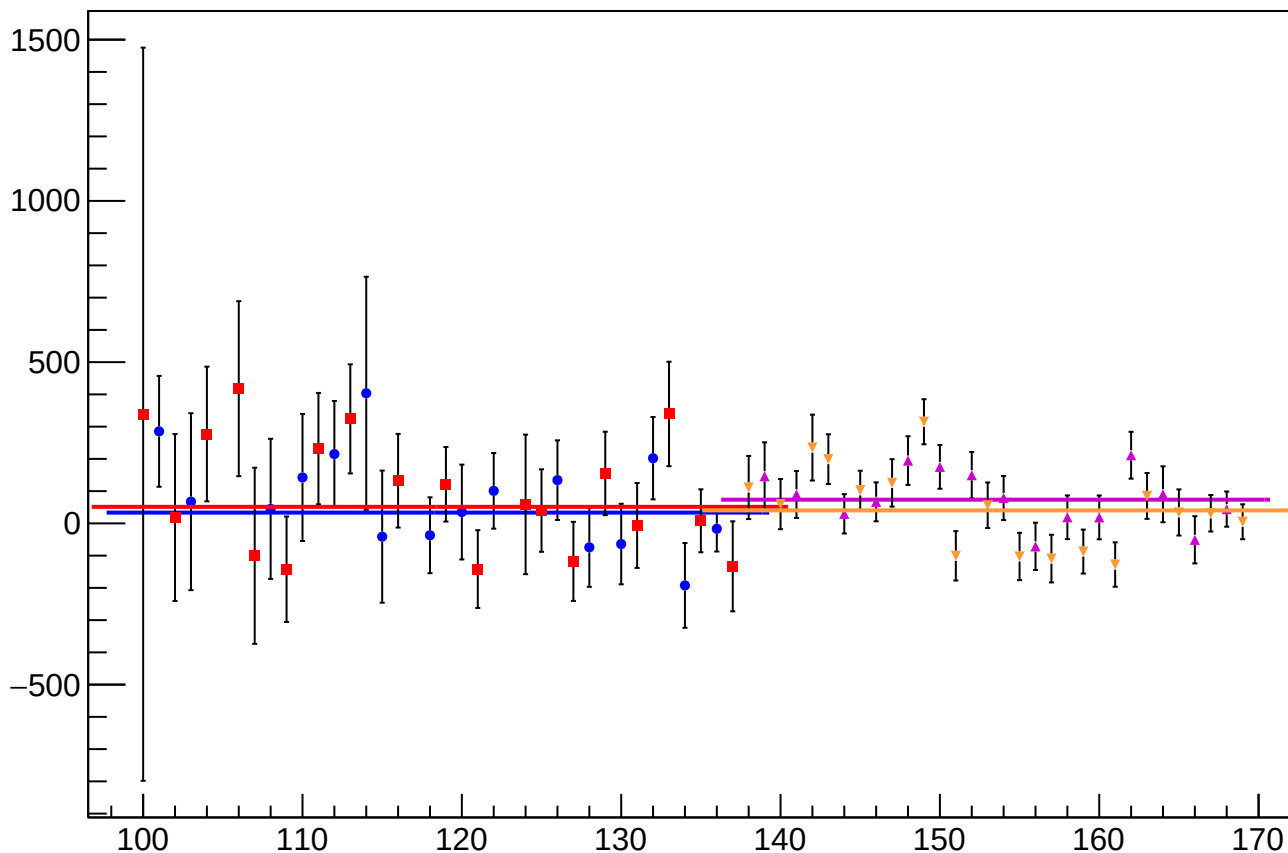
Right: 0.000+/-0.000 χ^2/NDF : 8066534.1/34

In: 0.000+/-0.000 χ^2/NDF :7981587.4/30

Out: 0.000+/-0.000 χ^2/NDF :7628004.2/35

All: 0.000+/-0.000 χ^2/NDF : 15611956.4/66

reg_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 33.431+/-33.881 χ^2/NDF : 12.8/15

Left Out: 40.305+/-17.131 χ^2/NDF : 48.0/16

Right Out: 51.335+/-34.851 χ^2/NDF : 19.6/18

Left In: 73.479+/-17.995 χ^2/NDF : 19.0/14

Left: 56.076+/-12.408 χ^2/NDF : 68.8/31

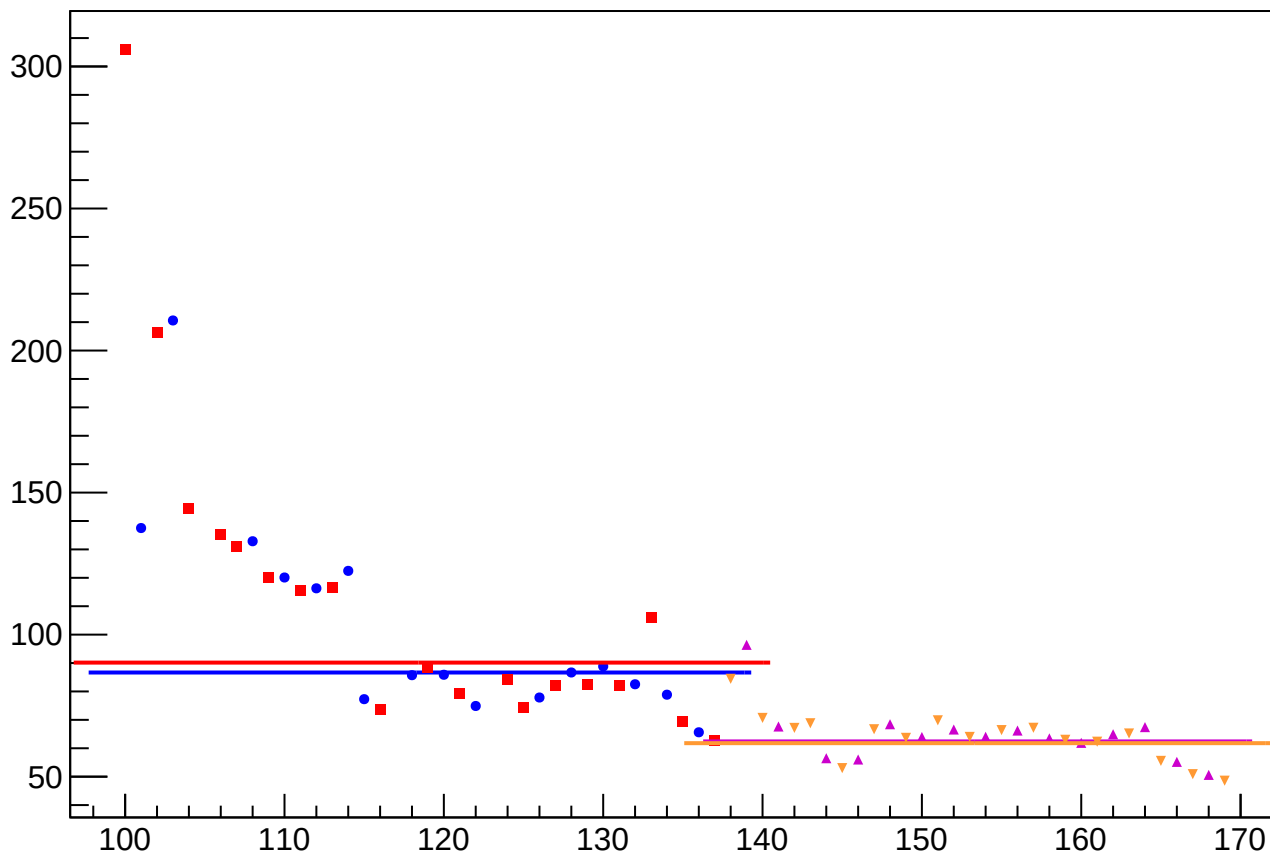
Right: 42.130+/-24.293 χ^2/NDF : 32.5/34

In: 64.667+/-15.893 χ^2/NDF : 32.9/30

Out: 42.451+/-15.374 χ^2/NDF : 67.6/35

All: 53.191+/-11.050 χ^2/NDF : 101.6/66

reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 86.666 $\pm$ 0.024 χ^2 /NDF: 1038813.4/15

Left Out: 61.792 $\pm$ 0.012 χ^2 /NDF: 464039.6/16

Right Out: 90.153 $\pm$ 0.025 χ^2 /NDF: 1149976.9/18

Left In: 62.407 $\pm$ 0.013 χ^2 /NDF: 410242.9/14

Left: 62.085 $\pm$ 0.009 χ^2 /NDF: 875508.1/31

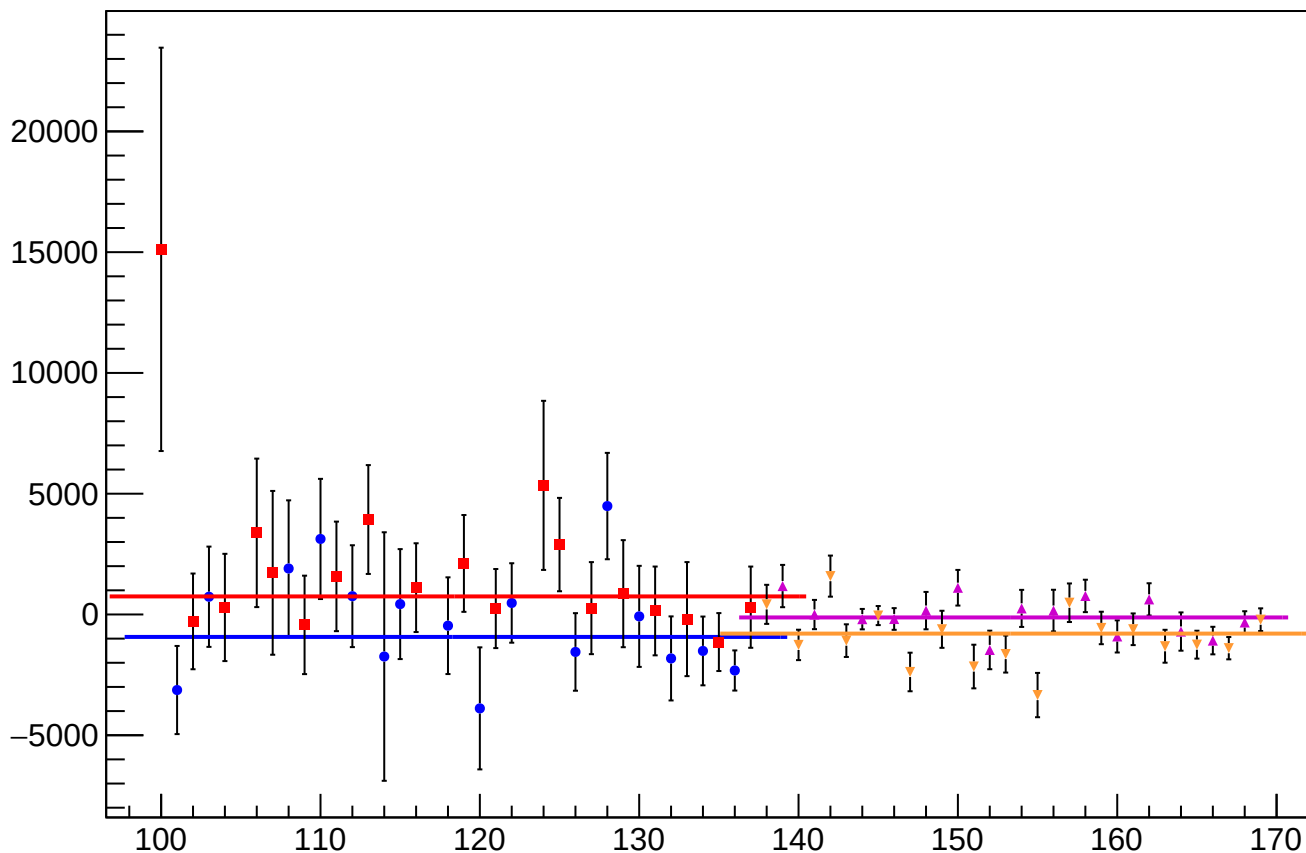
Right: 88.360 $\pm$ 0.017 χ^2 /NDF: 2199082.5/34

In: 67.745 $\pm$ 0.011 χ^2 /NDF: 2248782.5/30

Out: 67.311 $\pm$ 0.011 χ^2 /NDF: 2680714.4/35

All: 67.521 $\pm$ 0.008 χ^2 /NDF: 4930266.3/66

asym_sam_3726_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -929.821+/-440.893 χ^2/NDF : 18.5/15

Left Out: -792.187+/-154.496 χ^2/NDF : 36.8/16

Right Out: 747.199+/-467.902 χ^2/NDF : 13.0/18

Left In: -123.065+/-160.646 χ^2/NDF : 16.4/14

Left: -470.679+/-111.356 χ^2/NDF : 62.2/31

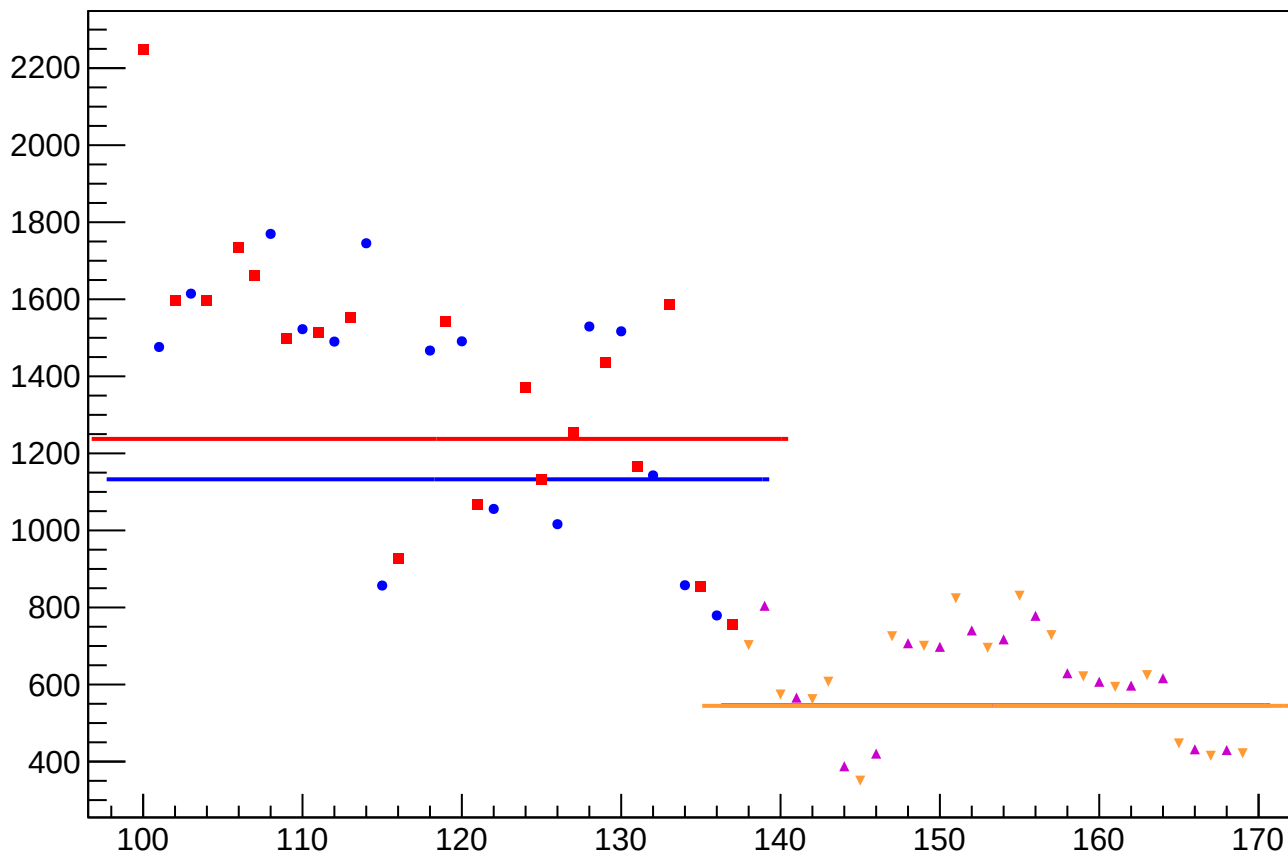
Right: -141.108+/-320.882 χ^2/NDF : 38.3/34

In: -217.618+/-150.939 χ^2/NDF : 37.8/30

Out: -640.856+/-146.705 χ^2/NDF : 59.5/35

All: -435.255+/-105.201 χ^2/NDF : 101.4/66

asym_sam_3726_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1132.688 $\pm$ 0.312 χ^2 /NDF: 1124151.1/15

Left Out: 544.691 $\pm$ 0.109 χ^2 /NDF: 1751356.1/16

Right Out: 1237.591 $\pm$ 0.331 χ^2 /NDF: 895314.3/18

Left In: 546.055 $\pm$ 0.114 χ^2 /NDF: 1427812.6/14

Left: 545.346 $\pm$ 0.079 χ^2 /NDF: 3179243.6/31

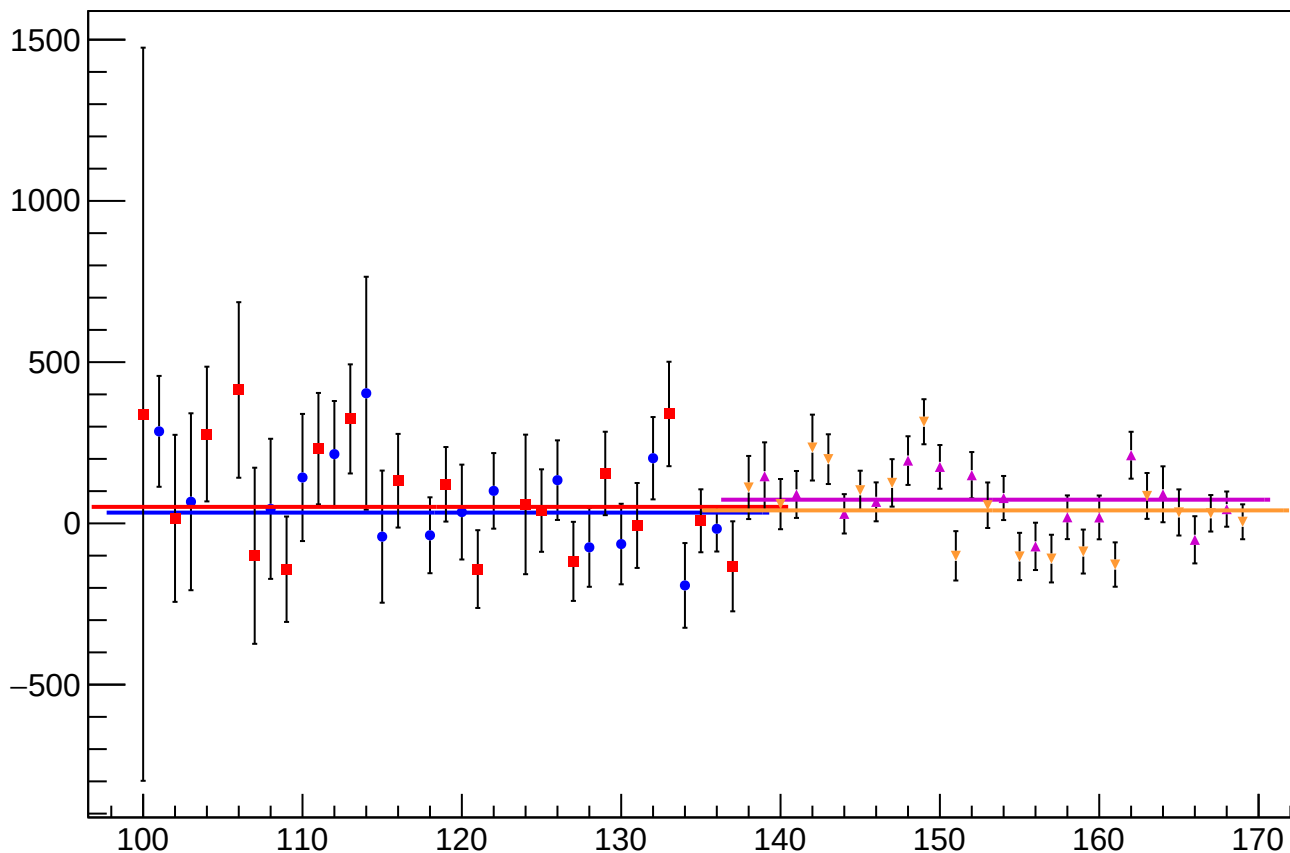
Right: 1182.025 $\pm$ 0.227 χ^2 /NDF: 2072715.6/34

In: 614.809 $\pm$ 0.107 χ^2 /NDF: 5677741.5/30

Out: 612.807 $\pm$ 0.104 χ^2 /NDF: 6601427.1/35

All: 613.780 $\pm$ 0.074 χ^2 /NDF: 12279349.5/66

cor_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 33.422 $\pm$ 33.881 χ^2 /NDF: 12.8/15

Left Out: 40.308 $\pm$ 17.131 χ^2 /NDF:48.0/16

Right Out: 51.188 $\pm$ 34.853 χ^2 /NDF: 19.5/18

Left In: 73.478 $\pm$ 17.995 χ^2 /NDF:19.0/14

Left: 56.078 $\pm$ 12.408 χ^2 /NDF: 68.8/31

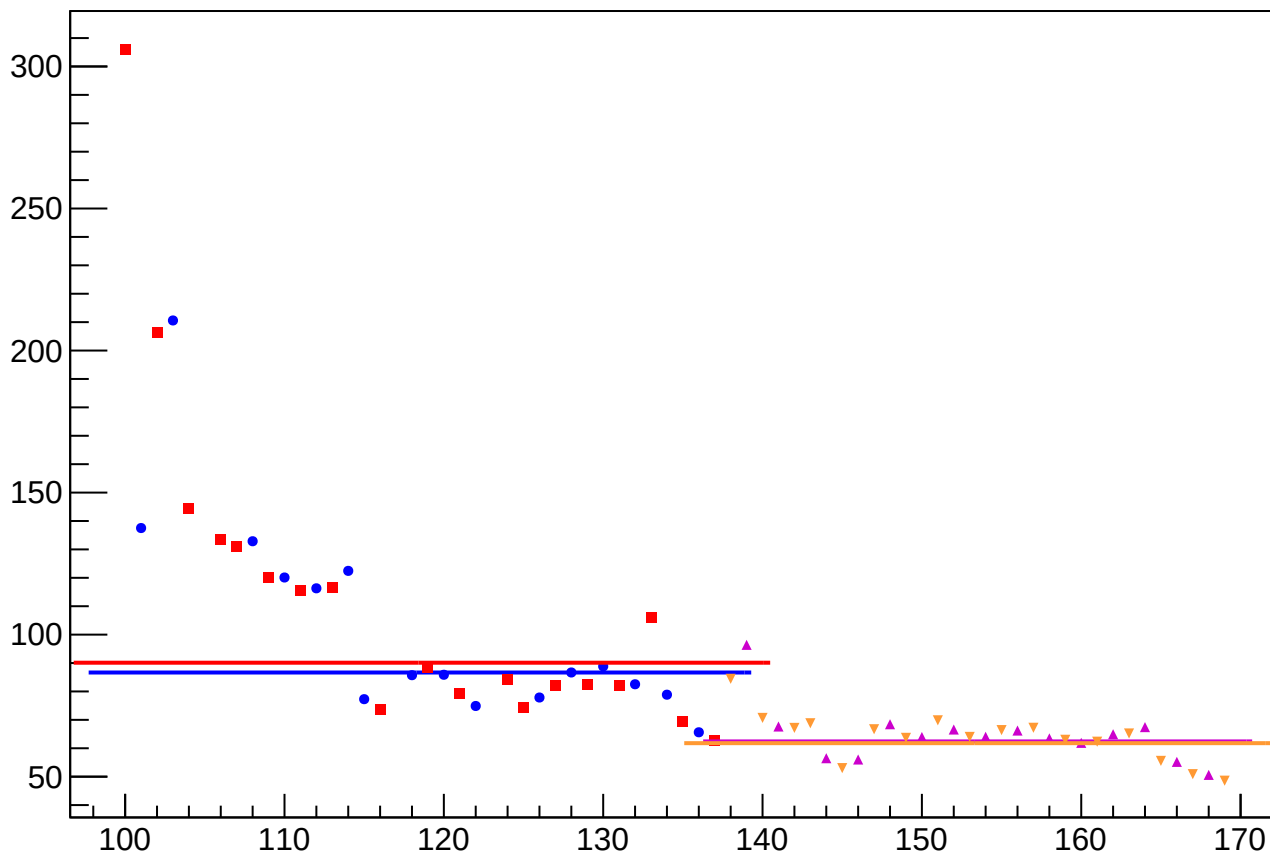
Right: 42.054 $\pm$ 24.294 χ^2 /NDF: 32.5/34

In: 64.665 $\pm$ 15.893 χ^2 /NDF:32.9/30

Out: 42.425 $\pm$ 15.374 χ^2 /NDF:67.6/35

All: 53.176 $\pm$ 11.050 χ^2 /NDF: 101.5/66

cor_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 86.666 $\pm$ 0.024 χ^2 /NDF: 1038816.2/15

Left Out: 61.792 $\pm$ 0.012 χ^2 /NDF: 464039.5/16

Right Out: 90.116 $\pm$ 0.025 χ^2 /NDF: 1145283.2/18

Left In: 62.407 $\pm$ 0.013 χ^2 /NDF: 410242.9/14

Left: 62.085 $\pm$ 0.009 χ^2 /NDF: 875508.1/31

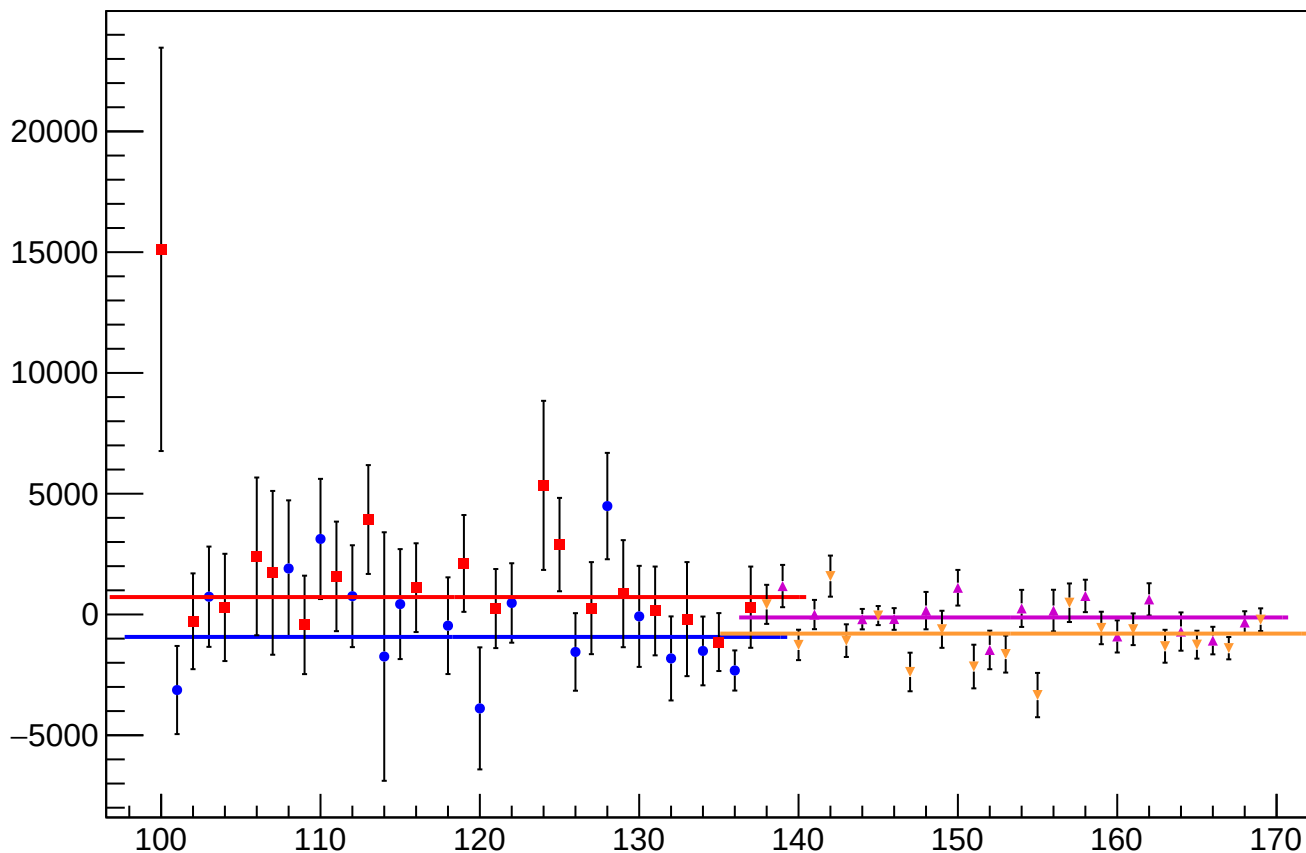
Right: 88.342 $\pm$ 0.017 χ^2 /NDF: 2194173.3/34

In: 67.745 $\pm$ 0.011 χ^2 /NDF: 2248784.9/30

Out: 67.304 $\pm$ 0.011 χ^2 /NDF: 2673128.2/35

All: 67.517 $\pm$ 0.008 χ^2 /NDF: 4922710.2/66

asym_sam_3726_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -929.788+/-440.894 χ^2/NDF : 18.5/15

Left Out: -792.182+/-154.495 χ^2/NDF :36.8/16

Right Out: 720.600+/-468.540 χ^2/NDF : 12.5/18

Left In: -123.065+/-160.646 χ^2/NDF :16.4/14

Left: -470.677+/-111.356 χ^2/NDF : 62.2/31

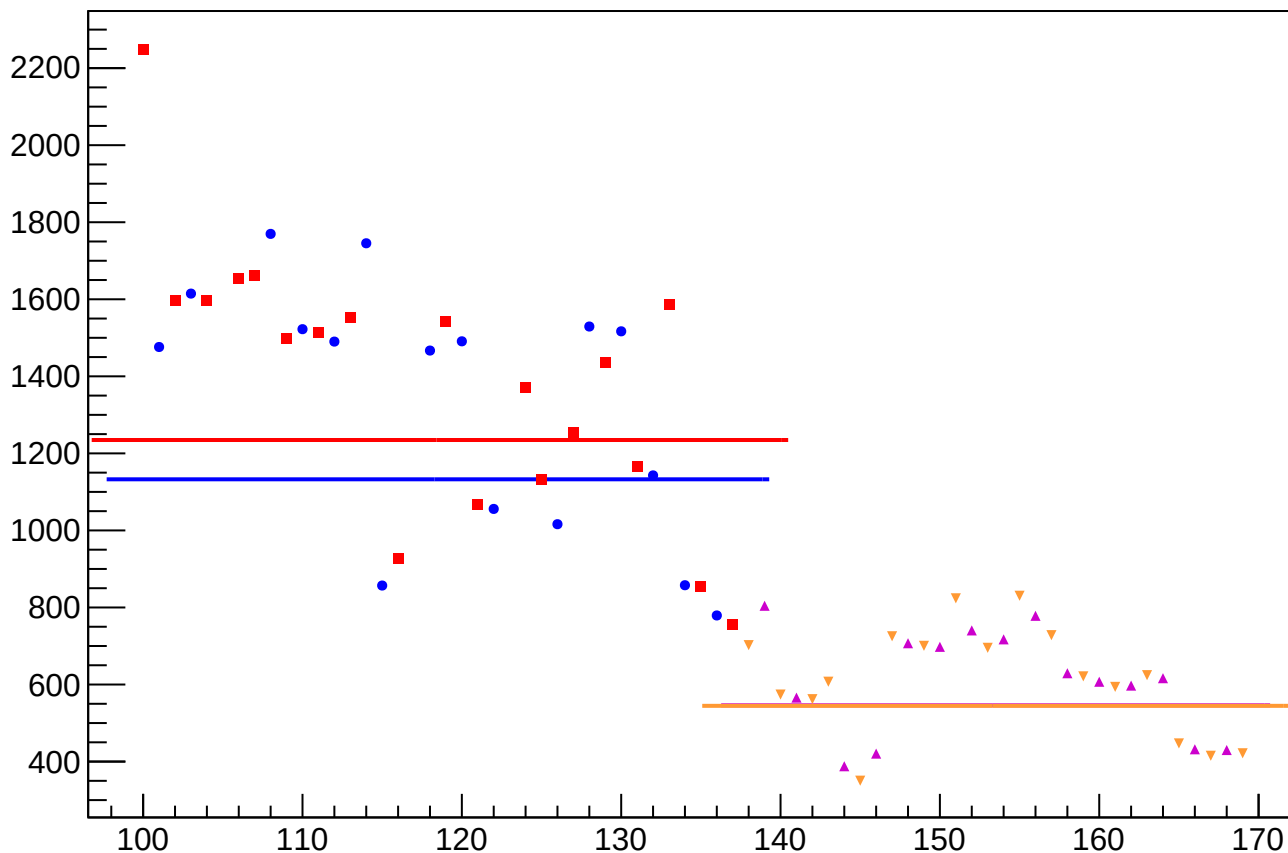
Right: -154.717+/-321.088 χ^2/NDF : 37.6/34

In: -217.614+/-150.939 χ^2/NDF :37.8/30

Out: -643.831+/-146.725 χ^2/NDF :58.7/35

All: -436.755+/-105.208 χ^2/NDF : 100.6/66

asym_sam_3726_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1132.689+/-0.312 χ^2/NDF : 1124187.2/15

Left Out: 544.691+/-0.109 χ^2/NDF : 1751360.3/16

Right Out: 1234.709+/-0.331 χ^2/NDF : 876272.4/18

Left In: 546.055+/-0.114 χ^2/NDF : 1427811.1/14

Left: 545.346+/-0.079 χ^2/NDF : 3179246.4/31

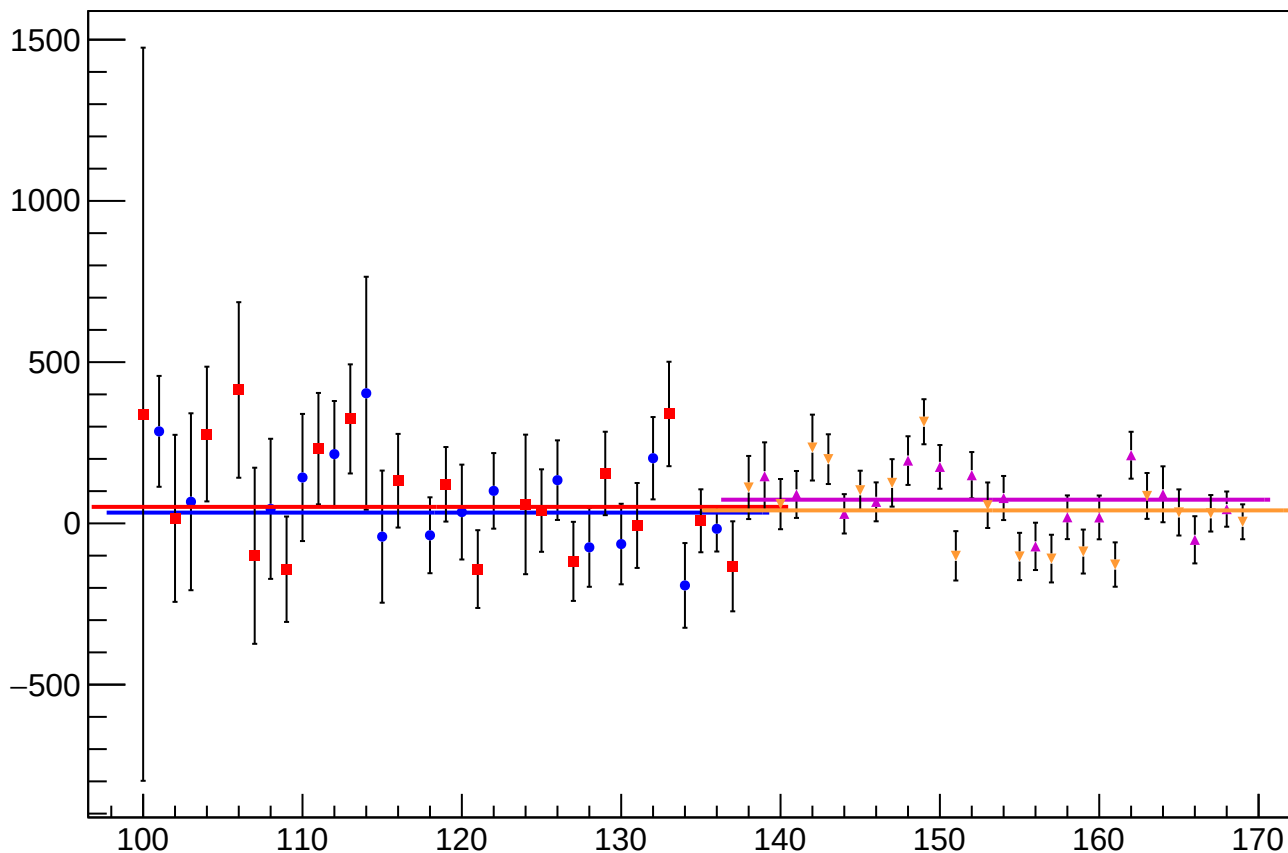
Right: 1180.601+/-0.227 χ^2/NDF : 2050749.6/34

In: 614.809+/-0.107 χ^2/NDF : 5677772.8/30

Out: 612.357+/-0.104 χ^2/NDF : 6539939.8/35

All: 613.549+/-0.074 χ^2/NDF : 12217984.0/66

eigen_cor_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 33.422+/-33.881 χ^2/NDF : 12.8/15

Left Out: 40.308+/-17.131 χ^2/NDF : 48.0/16

Right Out: 51.188+/-34.853 χ^2/NDF : 19.5/18

Left In: 73.478+/-17.995 χ^2/NDF : 19.0/14

Left: 56.078+/-12.408 χ^2/NDF : 68.8/31

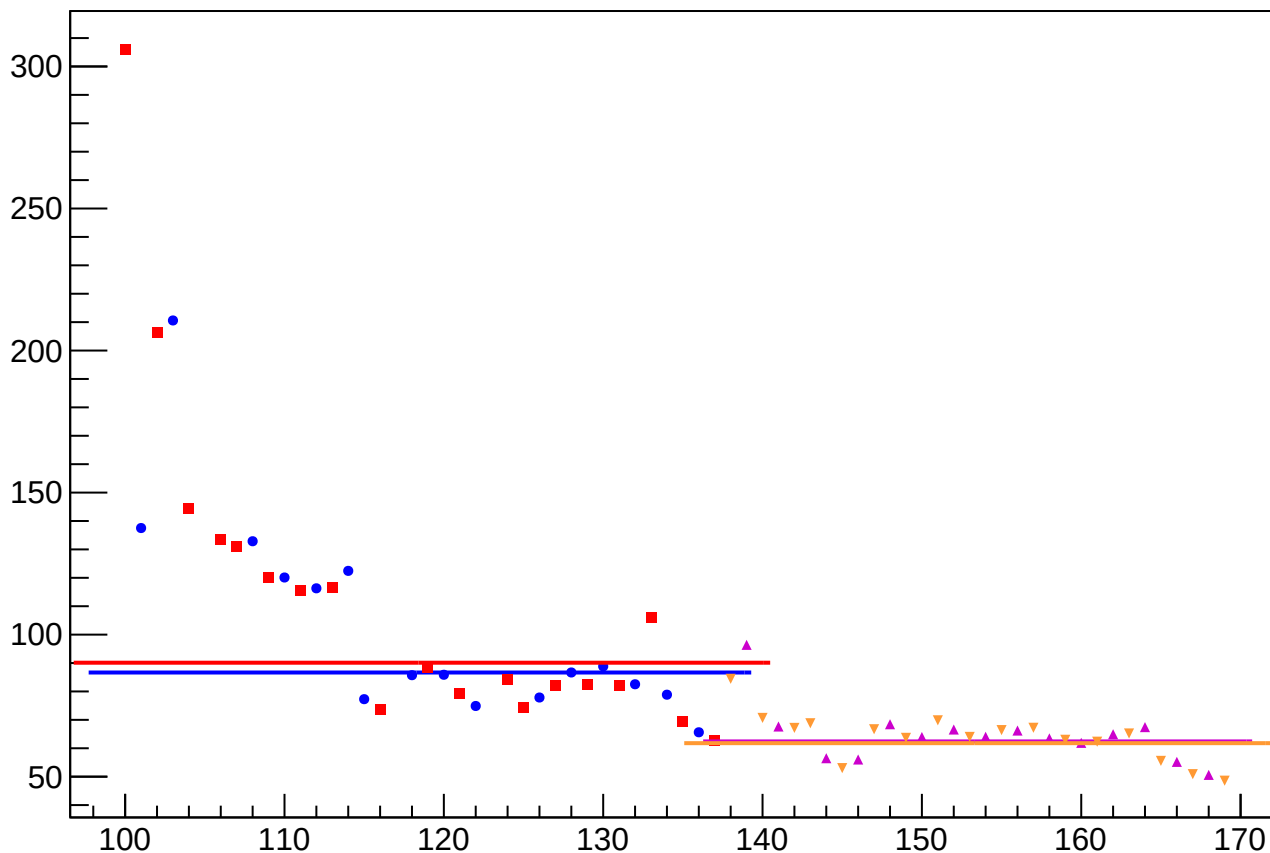
Right: 42.054+/-24.294 χ^2/NDF : 32.5/34

In: 64.665+/-15.893 χ^2/NDF : 32.9/30

Out: 42.425+/-15.374 χ^2/NDF : 67.6/35

All: 53.176+/-11.050 χ^2/NDF : 101.5/66

eigen_cor_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 86.666 $\pm$ 0.024 χ^2 /NDF: 1038816.2/15

Left Out: 61.792 $\pm$ 0.012 χ^2 /NDF: 464039.5/16

Right Out: 90.116 $\pm$ 0.025 χ^2 /NDF: 1145283.2/18

Left In: 62.407 $\pm$ 0.013 χ^2 /NDF: 410242.9/14

Left: 62.085 $\pm$ 0.009 χ^2 /NDF: 875508.1/31

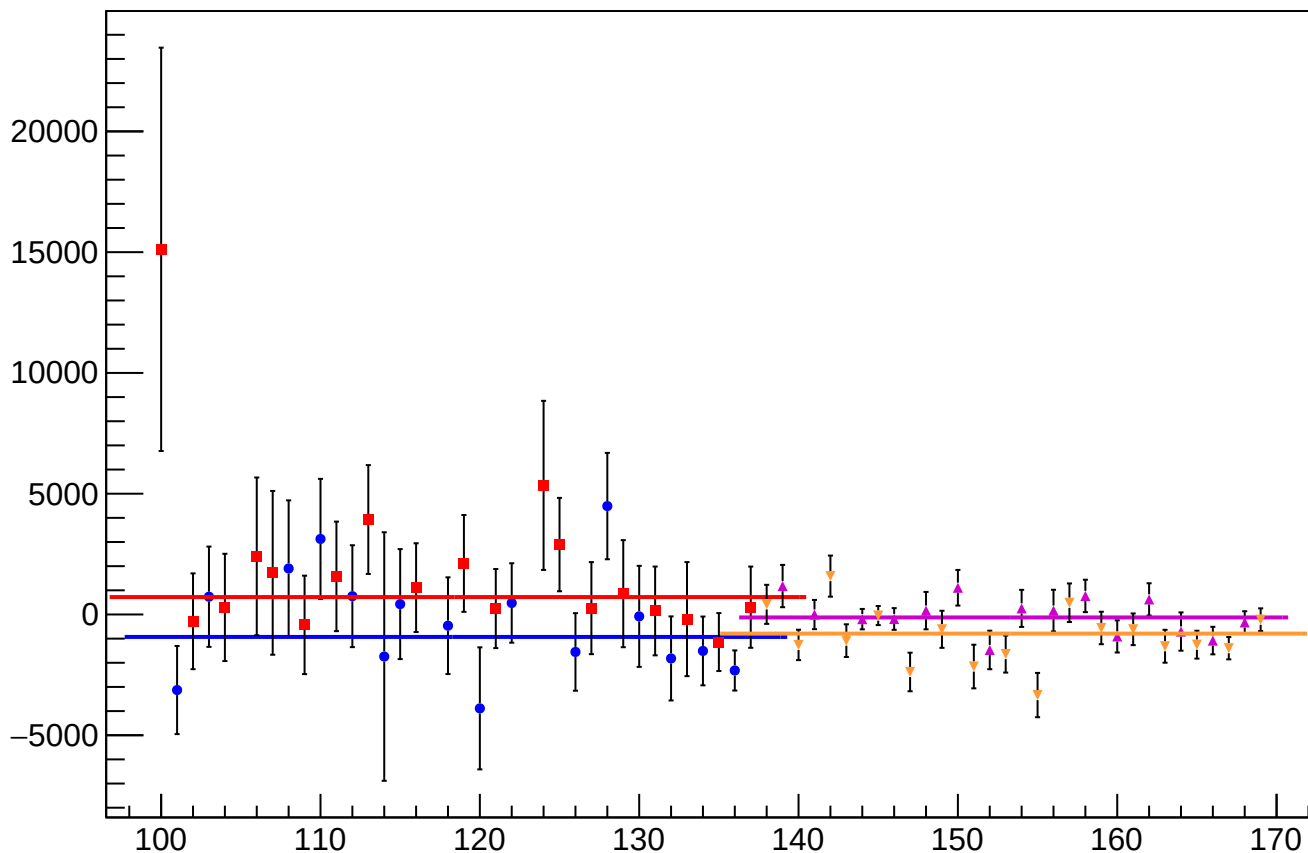
Right: 88.342 $\pm$ 0.017 χ^2 /NDF: 2194173.3/34

In: 67.745 $\pm$ 0.011 χ^2 /NDF: 2248784.9/30

Out: 67.304 $\pm$ 0.011 χ^2 /NDF: 2673128.2/35

All: 67.517 $\pm$ 0.008 χ^2 /NDF: 4922710.2/66

asym_sam_3726_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -929.788+/-440.894 χ^2/NDF : 18.5/15

Left Out: -792.182+/-154.495 χ^2/NDF :36.8/16

Right Out: 720.600+/-468.540 χ^2/NDF : 12.5/18

Left In: -123.065+/-160.646 χ^2/NDF :16.4/14

Left: -470.677+/-111.356 χ^2/NDF : 62.2/31

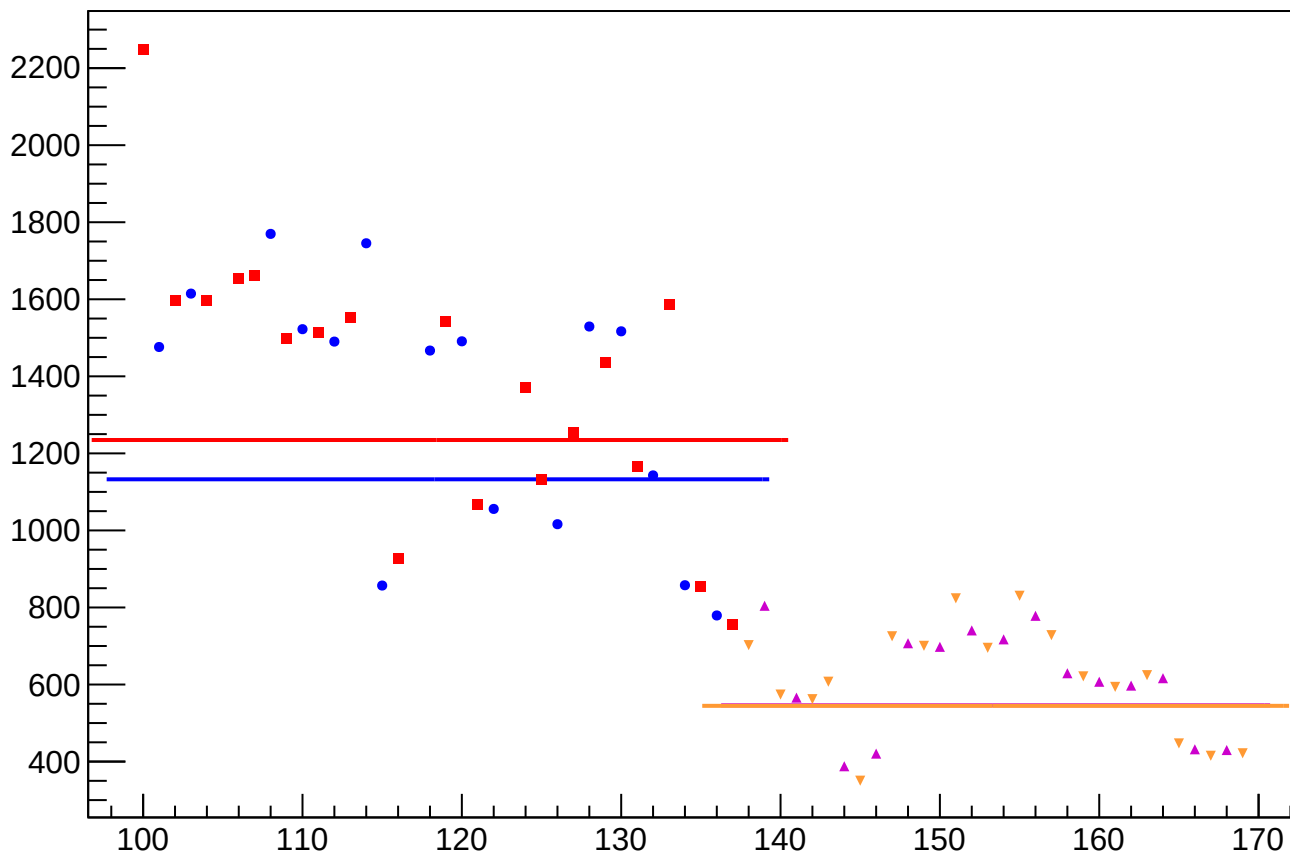
Right: -154.717+/-321.088 χ^2/NDF : 37.6/34

In: -217.614+/-150.939 χ^2/NDF :37.8/30

Out: -643.831+/-146.725 χ^2/NDF :58.7/35

All: -436.755+/-105.208 χ^2/NDF : 100.6/66

asym_sam_3726_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1132.689+/-0.312 χ^2/NDF : 1124187.2/15

Left Out: 544.691+/-0.109 χ^2/NDF : 1751360.3/16

Right Out: 1234.709+/-0.331 χ^2/NDF : 876272.4/18

Left In: 546.055+/-0.114 χ^2/NDF : 1427811.1/14

Left: 545.346+/-0.079 χ^2/NDF : 3179246.4/31

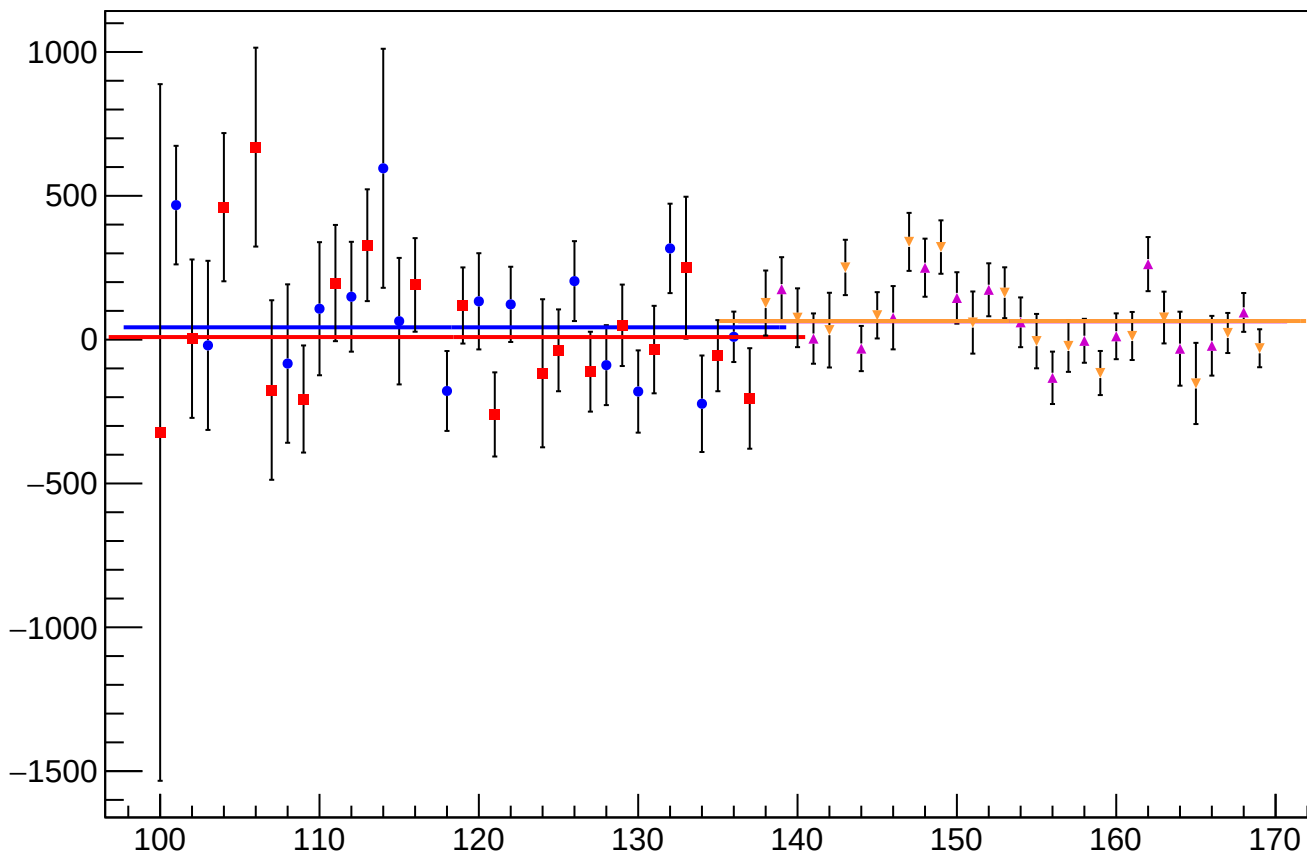
Right: 1180.601+/-0.227 χ^2/NDF : 2050749.6/34

In: 614.809+/-0.107 χ^2/NDF : 5677772.8/30

Out: 612.357+/-0.104 χ^2/NDF : 6539939.8/35

All: 613.549+/-0.074 χ^2/NDF : 12217984.0/66

dit_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 42.914 $\pm$ 39.948 χ^2 /NDF: 20.3/15

Left Out: 64.722 $\pm$ 21.918 χ^2 /NDF:32.8/16

Right Out: 8.989 $\pm$ 41.060 χ^2 /NDF: 21.3/18

Left In: 63.717 $\pm$ 23.147 χ^2 /NDF:20.4/14

Left: 64.247 $\pm$ 15.915 χ^2 /NDF: 53.1/31

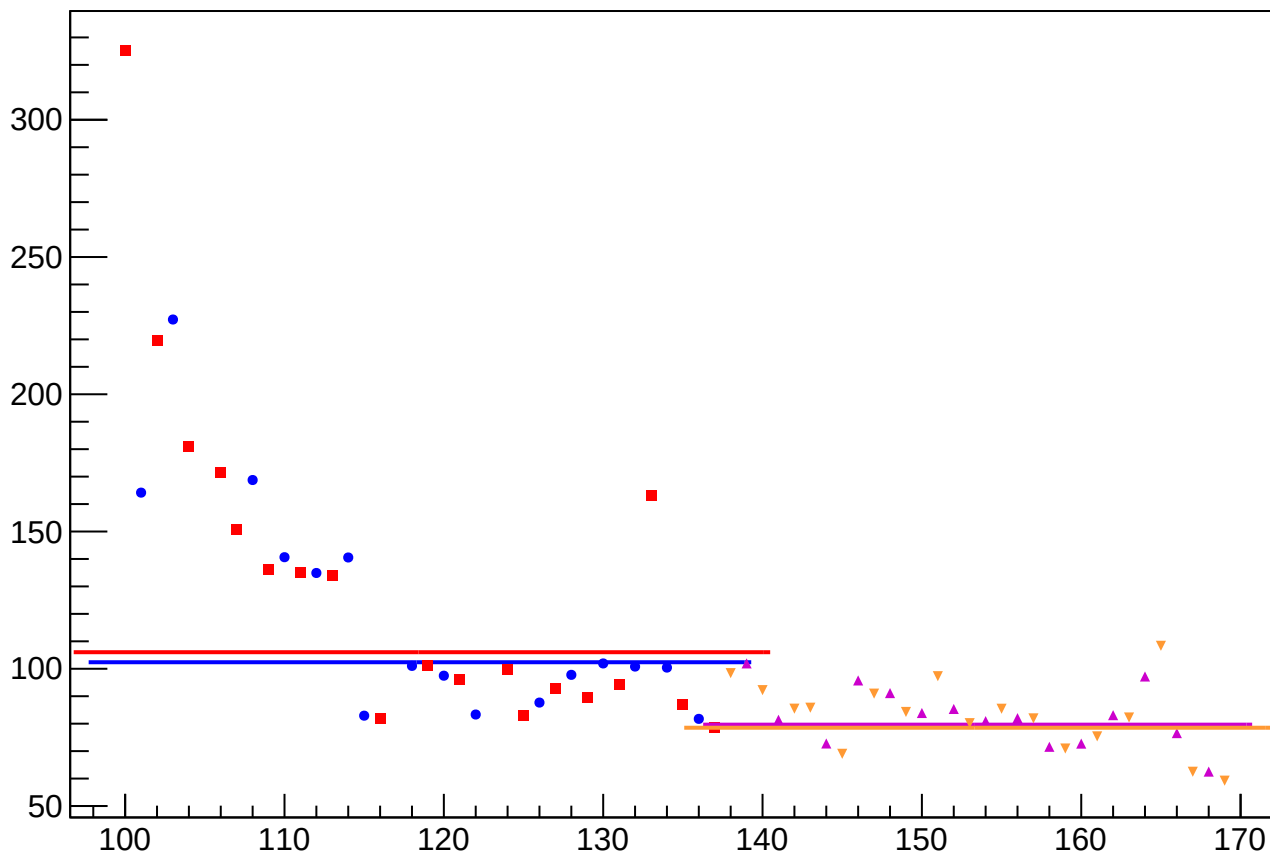
Right: 26.417 $\pm$ 28.632 χ^2 /NDF: 42.0/34

In: 58.488 $\pm$ 20.028 χ^2 /NDF:40.9/30

Out: 52.363 $\pm$ 19.336 χ^2 /NDF:55.5/35

All: 55.318 $\pm$ 13.911 χ^2 /NDF: 96.5/66

dit_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 102.378 $\pm$ 0.028 χ^2 /NDF: 982311.5/15

Left Out: 78.518 $\pm$ 0.015 χ^2 /NDF: 647420.0/16

Right Out: 106.032 $\pm$ 0.029 χ^2 /NDF: 1191294.0/18

Left In: 79.639 $\pm$ 0.016 χ^2 /NDF: 386912.4/14

Left: 79.048 $\pm$ 0.011 χ^2 /NDF: 1036806.6/31

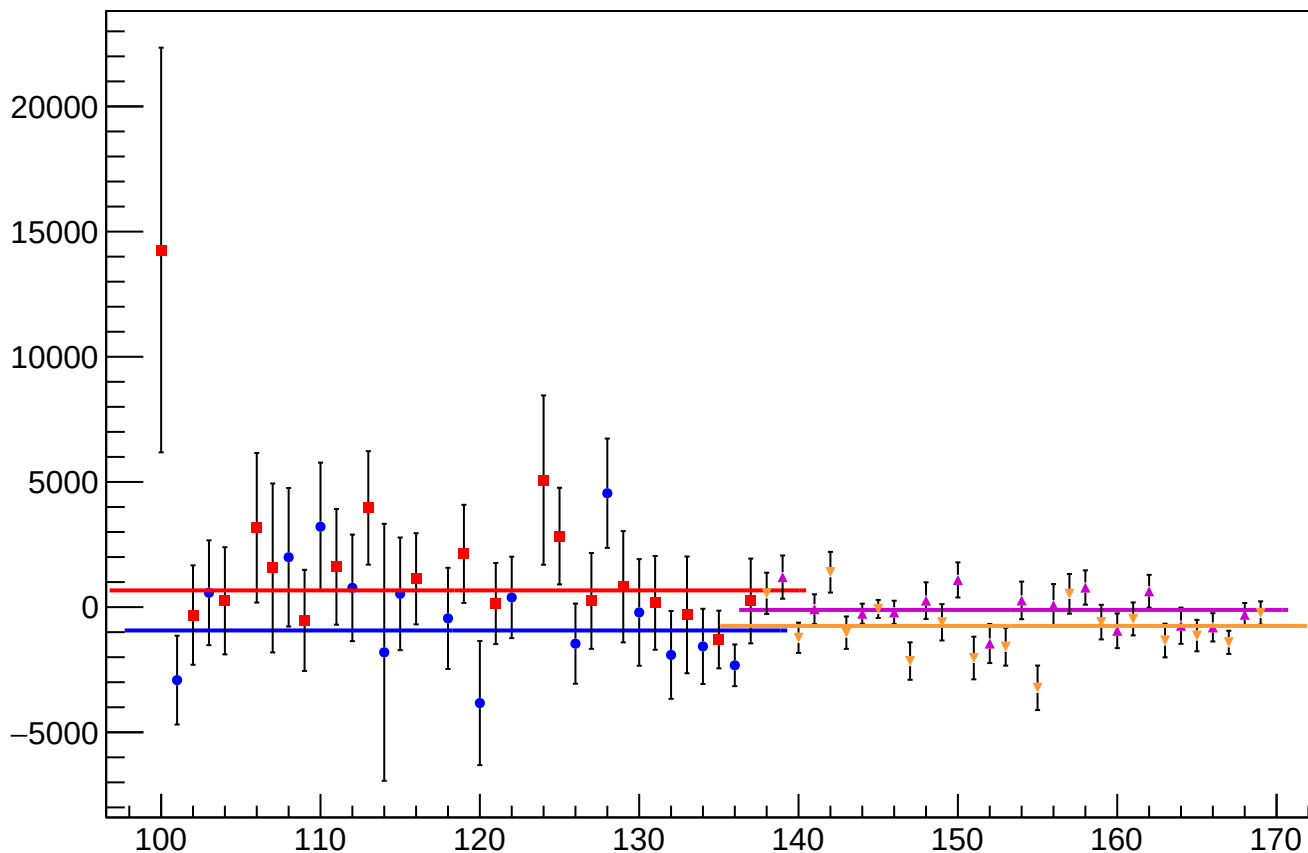
Right: 104.155 $\pm$ 0.020 χ^2 /NDF: 2181742.7/34

In: 85.355 $\pm$ 0.014 χ^2 /NDF: 1854370.4/30

Out: 84.620 $\pm$ 0.014 χ^2 /NDF: 2537641.9/35

All: 84.974 $\pm$ 0.010 χ^2 /NDF: 4393406.6/66

asym_sam_3726_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -932.381+/-442.724 χ^2/NDF : 18.5/15

Left Out: -751.612+/-150.773 χ^2/NDF : 35.8/16

Right Out: 668.521+/-463.213 χ^2/NDF : 13.5/18

Left In: -112.258+/-158.382 χ^2/NDF : 15.8/14

Left: -447.660+/-109.203 χ^2/NDF : 60.2/31

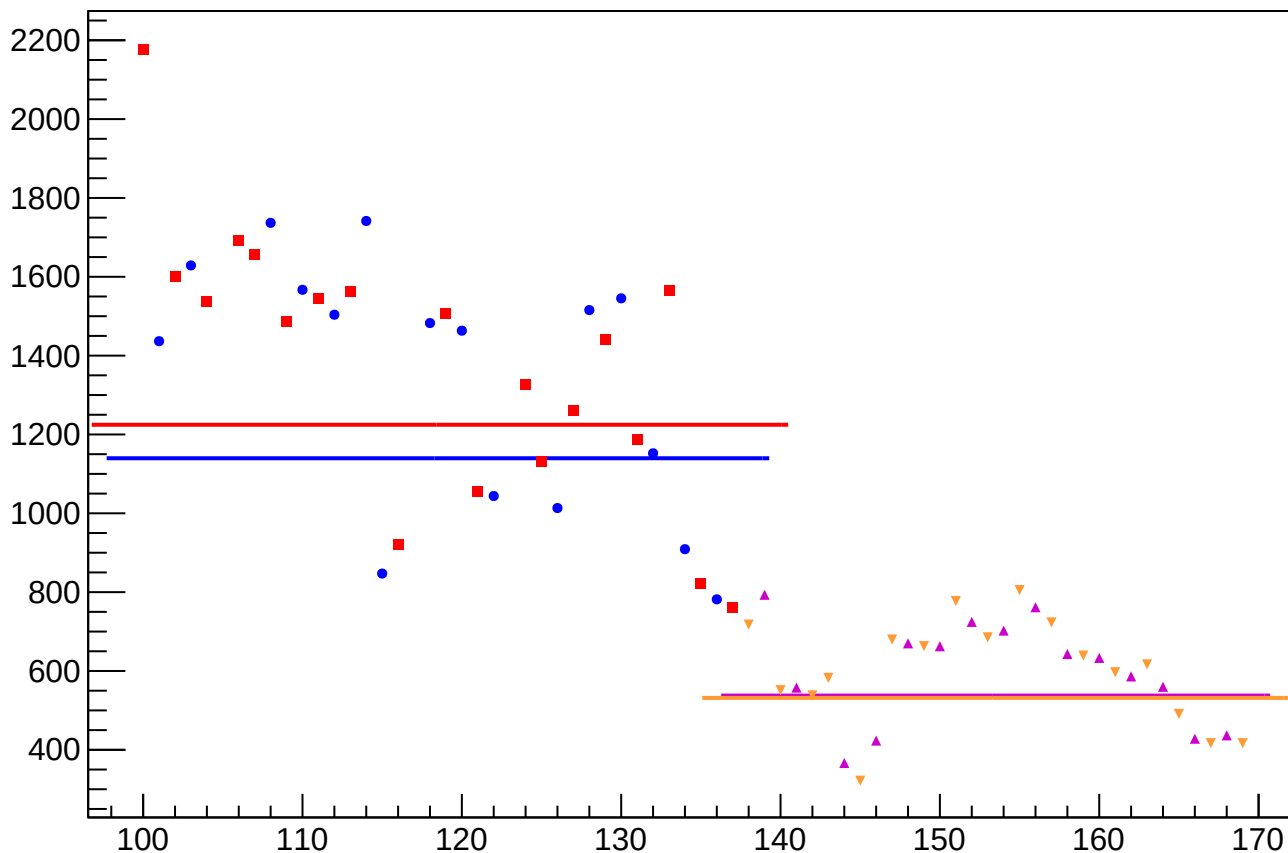
Right: -168.117+/-320.052 χ^2/NDF : 38.2/34

In: -205.309+/-149.126 χ^2/NDF : 37.3/30

Out: -615.567+/-143.369 χ^2/NDF : 57.8/35

All: -418.509+/-103.353 χ^2/NDF : 99.1/66

asym_sam_3726_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1139.658+/-0.313 χ^2/NDF : 1093410.3/15

Left Out: 531.647+/-0.107 χ^2/NDF : 1853402.3/16

Right Out: 1224.637+/-0.328 χ^2/NDF : 922388.4/18

Left In: 537.654+/-0.112 χ^2/NDF : 1410919.6/14

Left: 534.503+/-0.077 χ^2/NDF : 3265831.0/31

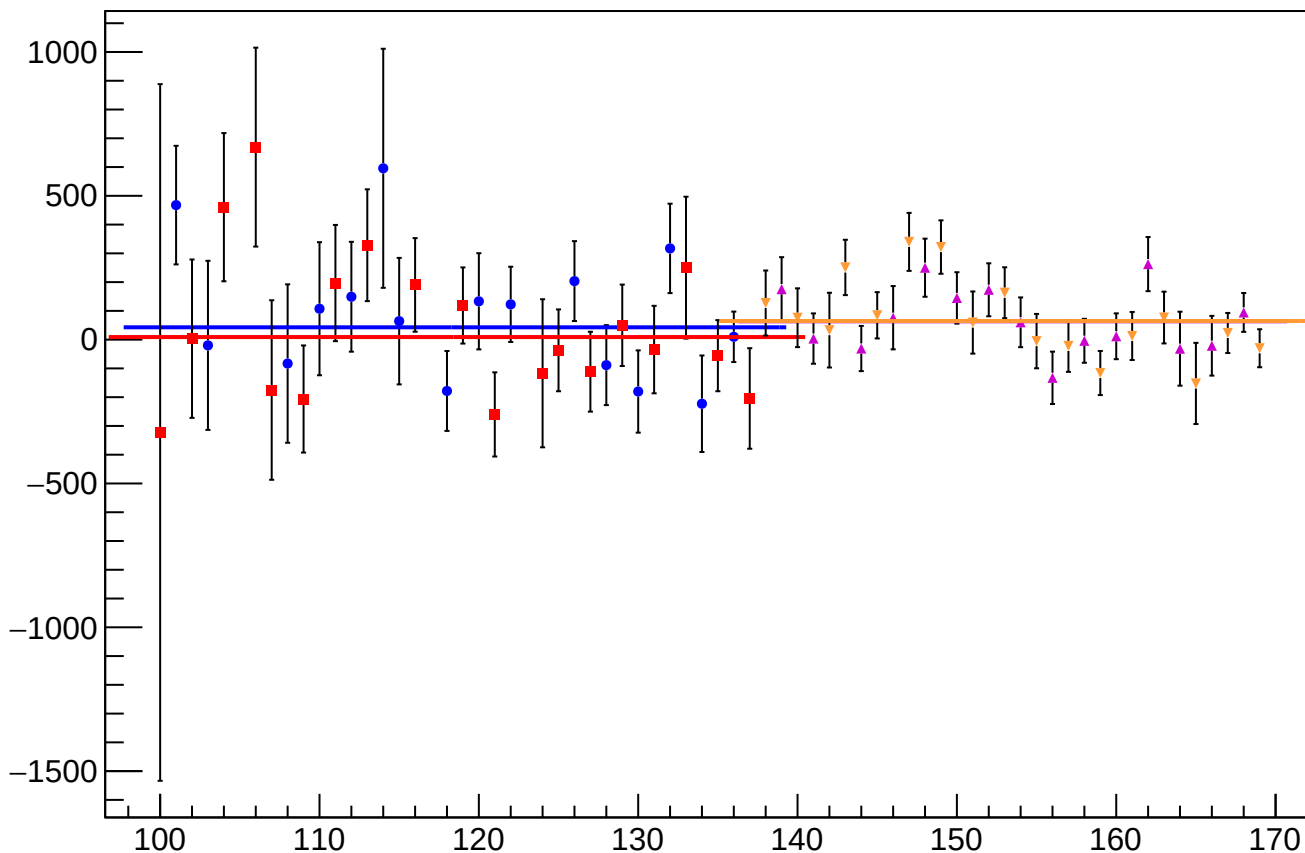
Right: 1180.226+/-0.226 χ^2/NDF : 2050976.5/34

In: 605.957+/-0.105 χ^2/NDF : 5782710.8/30

Out: 598.034+/-0.101 χ^2/NDF : 6823304.4/35

All: 601.840+/-0.073 χ^2/NDF : 12608949.3/66

eigen_dit_asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 42.914 $\pm$ 39.948 χ^2/NDF : 20.3/15

Left Out: 64.723 $\pm$ 21.918 χ^2/NDF :32.8/16

Right Out: 8.986 $\pm$ 41.060 χ^2/NDF : 21.3/18

Left In: 63.715 $\pm$ 23.147 χ^2/NDF :20.4/14

Left: 64.246 $\pm$ 15.915 χ^2/NDF : 53.1/31

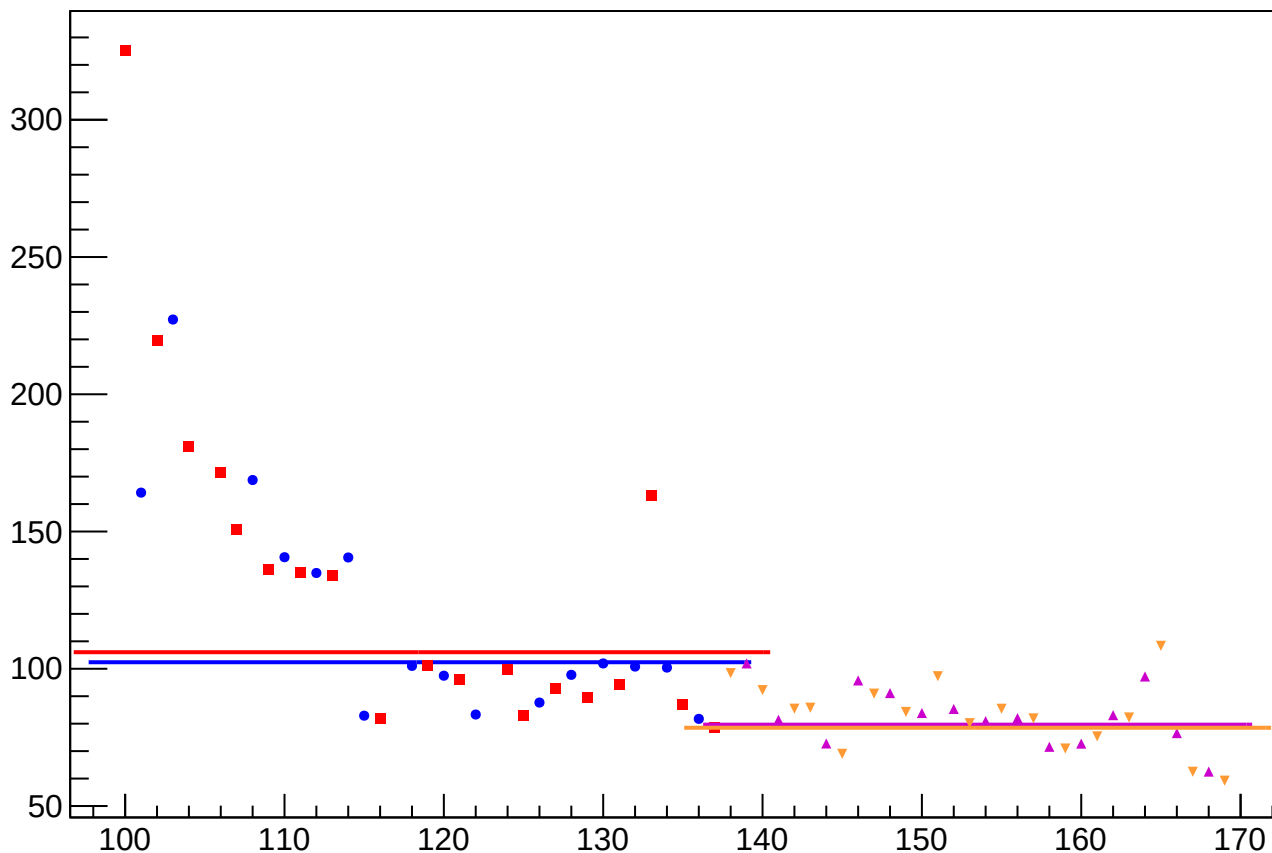
Right: 26.416 $\pm$ 28.632 χ^2/NDF : 42.0/34

In: 58.487 $\pm$ 20.028 χ^2/NDF :40.9/30

Out: 52.362 $\pm$ 19.336 χ^2/NDF :55.5/35

All: 55.317 $\pm$ 13.911 χ^2/NDF : 96.5/66

eigen_dit_asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 102.378 $\pm$ 0.028 χ^2 /NDF: 982307.0/15

Left Out: 78.518 $\pm$ 0.015 χ^2 /NDF: 647409.2/16

Right Out: 106.032 $\pm$ 0.029 χ^2 /NDF: 1191296.9/18

Left In: 79.639 $\pm$ 0.016 χ^2 /NDF: 386910.8/14

Left: 79.048 $\pm$ 0.011 χ^2 /NDF: 1036794.1/31

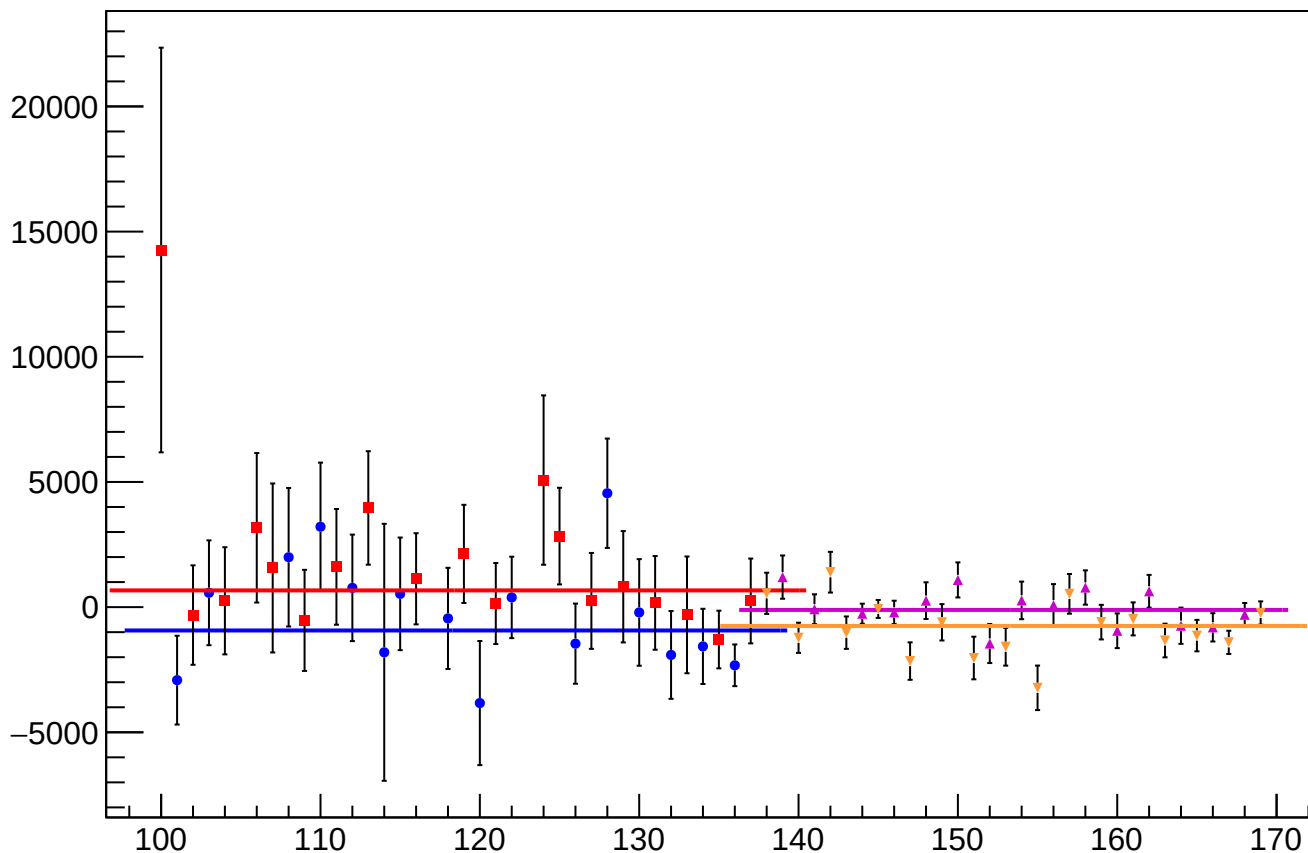
Right: 104.155 $\pm$ 0.020 χ^2 /NDF: 2181741.7/34

In: 85.355 $\pm$ 0.014 χ^2 /NDF: 1854341.9/30

Out: 84.620 $\pm$ 0.014 χ^2 /NDF: 2537612.8/35

All: 84.975 $\pm$ 0.010 χ^2 /NDF: 4393348.9/66

asym_sam_3726_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -932.377+/-442.724 χ^2/NDF : 18.5/15

Left Out: -751.611+/-150.773 χ^2/NDF :35.8/16

Right Out: 668.522+/-463.212 χ^2/NDF : 13.5/18

Left In: -112.259+/-158.381 χ^2/NDF :15.8/14

Left: -447.661+/-109.203 χ^2/NDF : 60.2/31

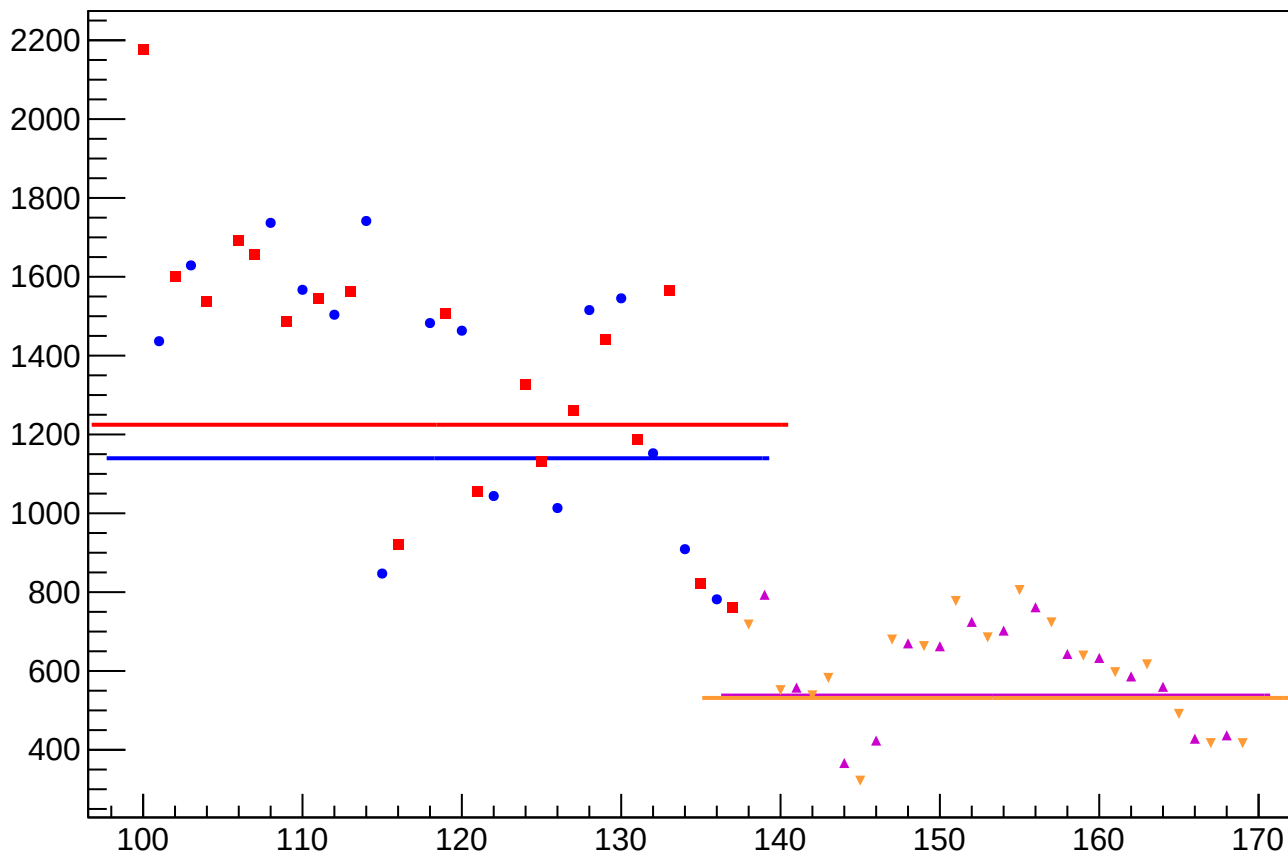
Right: -168.114+/-320.051 χ^2/NDF : 38.2/34

In: -205.309+/-149.126 χ^2/NDF :37.3/30

Out: -615.566+/-143.369 χ^2/NDF :57.8/35

All: -418.509+/-103.353 χ^2/NDF : 99.1/66

asym_sam_3726_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1139.656 $\pm$ 0.313 χ^2 /NDF: 1093397.5/15

Left Out: 531.646 $\pm$ 0.107 χ^2 /NDF:1853419.6/16

Right Out: 1224.635 $\pm$ 0.328 χ^2 /NDF: 922378.0/18

Left In: 537.654 $\pm$ 0.112 χ^2 /NDF:1410920.8/14

Left: 534.502 $\pm$ 0.077 χ^2 /NDF: 3265849.8/31

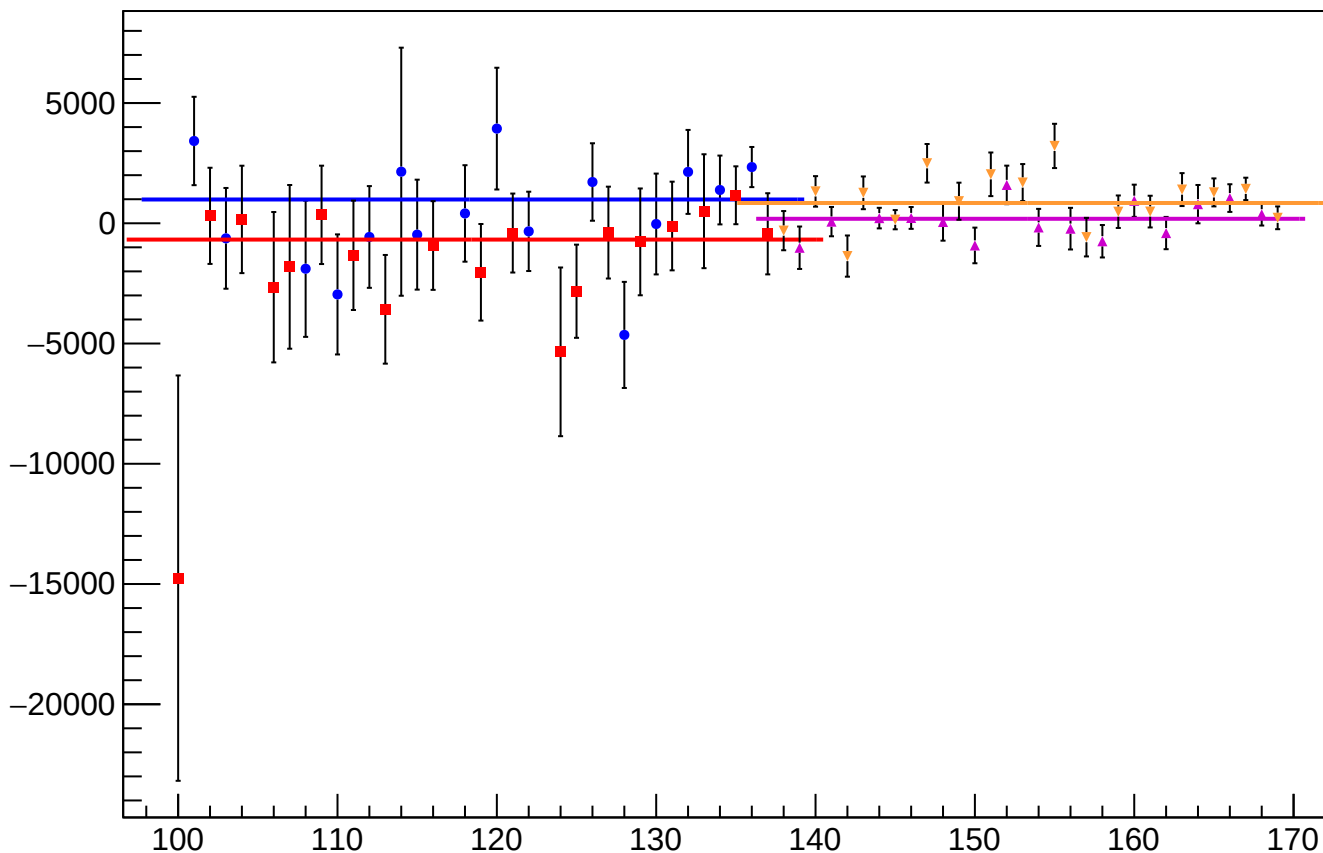
Right: 1180.225 $\pm$ 0.226 χ^2 /NDF: 2050952.9/34

In: 605.957 $\pm$ 0.105 χ^2 /NDF:5782699.4/30

Out: 598.033 $\pm$ 0.101 χ^2 /NDF:6823316.8/35

All: 601.839 $\pm$ 0.073 χ^2 /NDF: 12608950.9/66

asym_sam_3726_avg_mean vs Slug, Sign Corrected



Right In: 989.322 $\pm$ 442.634 χ^2 /NDF: 19.0/15

Left Out: 844.236 $\pm$ 155.599 χ^2 /NDF:34.7/16

Right Out: -677.628 $\pm$ 469.652 χ^2 /NDF: 11.9/18

Left In: 186.609 $\pm$ 161.840 χ^2 /NDF:14.6/14

Left: 528.348 $\pm$ 112.166 χ^2 /NDF: 57.9/31

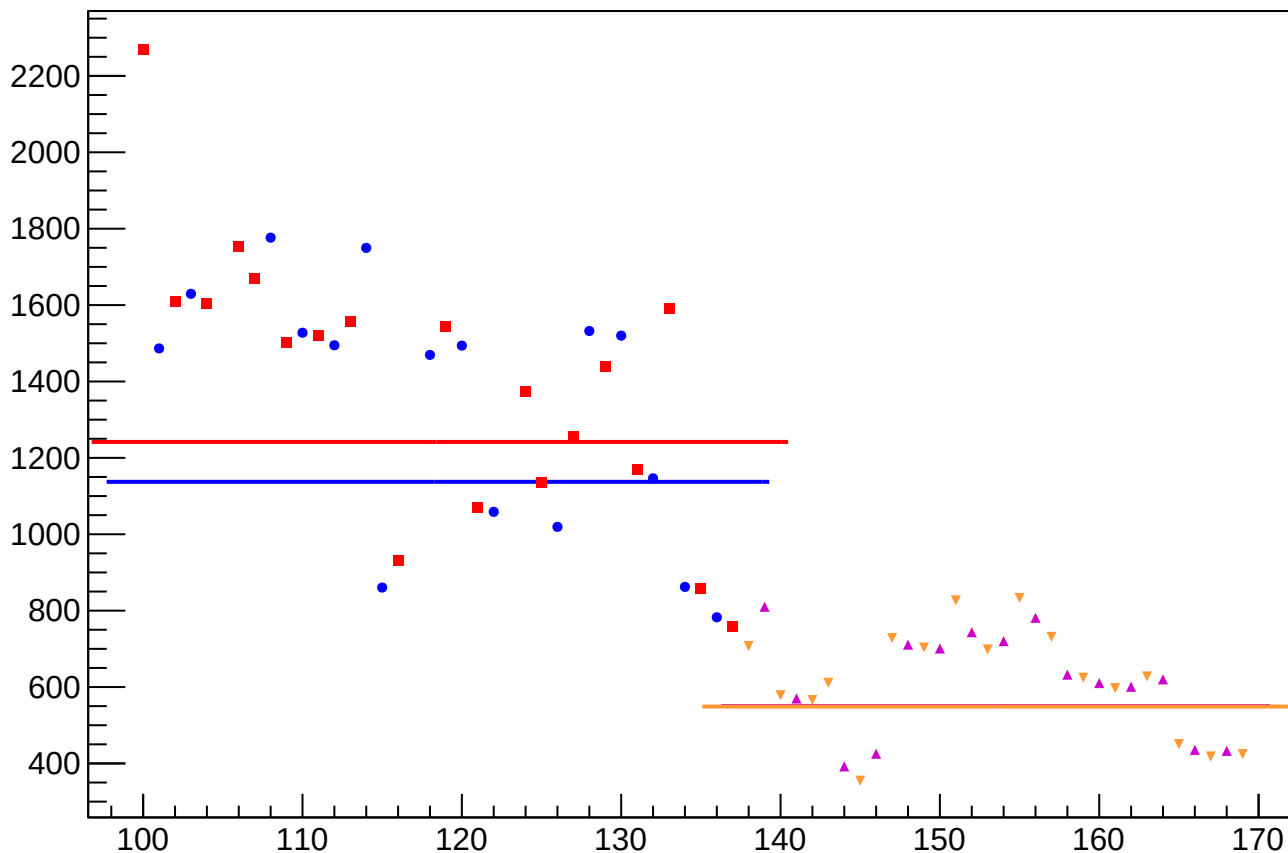
Right: 205.171 $\pm$ 322.118 χ^2 /NDF: 37.6/34

In: 281.266 $\pm$ 151.999 χ^2 /NDF:36.6/30

Out: 693.713 $\pm$ 147.703 χ^2 /NDF:56.1/35

All: 493.399 $\pm$ 105.928 χ^2 /NDF: 96.4/66

asym_sam_3726_avg_rms vs Slug, Sign Corrected



Right In: 1137.220+/-0.313 χ^2/NDF : 1123685.6/15

Left Out: 548.891+/-0.110 χ^2/NDF : 1722372.8/16

Right Out: 1241.709+/-0.332 χ^2/NDF : 899417.9/18

Left In: 550.430+/-0.114 χ^2/NDF : 1402191.6/14

Left: 549.630+/-0.079 χ^2/NDF : 3124658.4/31

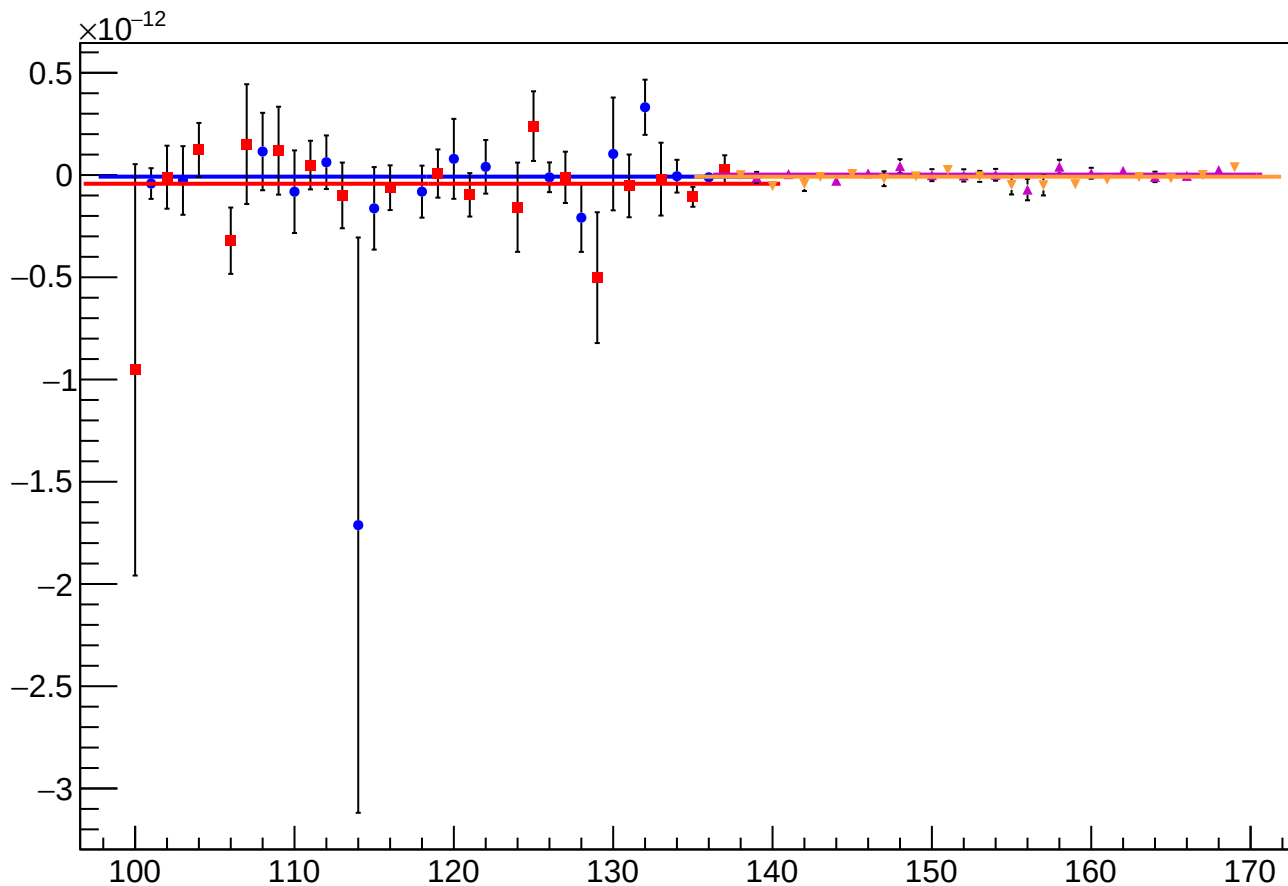
Right: 1186.373+/-0.228 χ^2/NDF : 2075531.5/34

In: 619.624+/-0.107 χ^2/NDF : 5626242.7/30

Out: 617.416+/-0.104 χ^2/NDF : 6543592.8/35

All: 618.489+/-0.075 χ^2/NDF : 12170052.7/66

asym_sam_3726_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 11.7/15

Left Out: -0.000+/-0.000 χ^2/NDF : 22.9/16

Right Out: -0.000+/-0.000 χ^2/NDF : 15.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 10.4/14

Left: -0.000+/-0.000 χ^2/NDF : 35.1/31

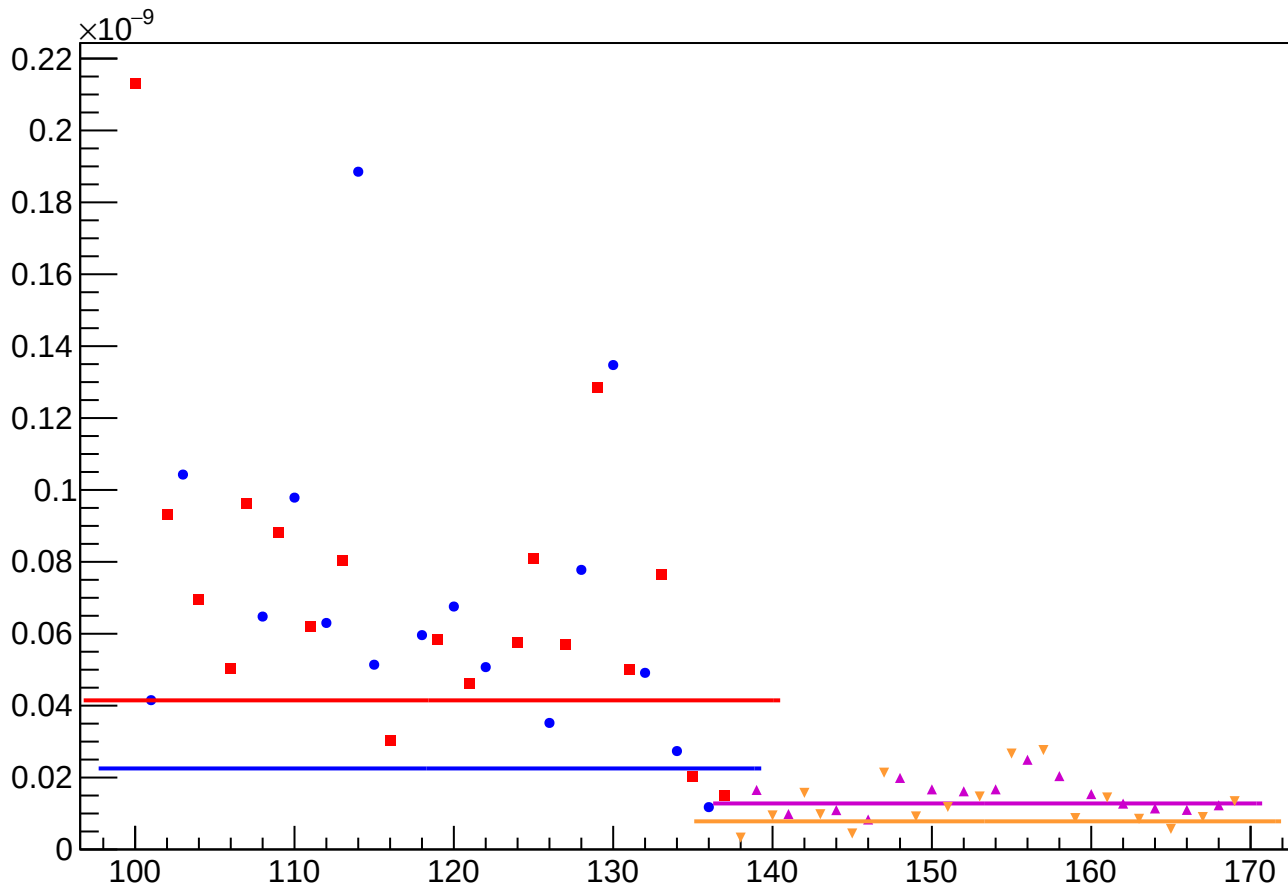
Right: -0.000+/-0.000 χ^2/NDF : 28.4/34

In: 0.000+/-0.000 χ^2/NDF : 22.4/30

Out: -0.000+/-0.000 χ^2/NDF : 40.0/35

All: -0.000+/-0.000 χ^2/NDF : 64.3/66

asym_sam_3726_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2852766.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :2303945.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1847735.6/18

Left In: 0.000+/-0.000 χ^2/NDF :706840.9/14

Left: 0.000+/-0.000 χ^2/NDF : 3890621.0/31

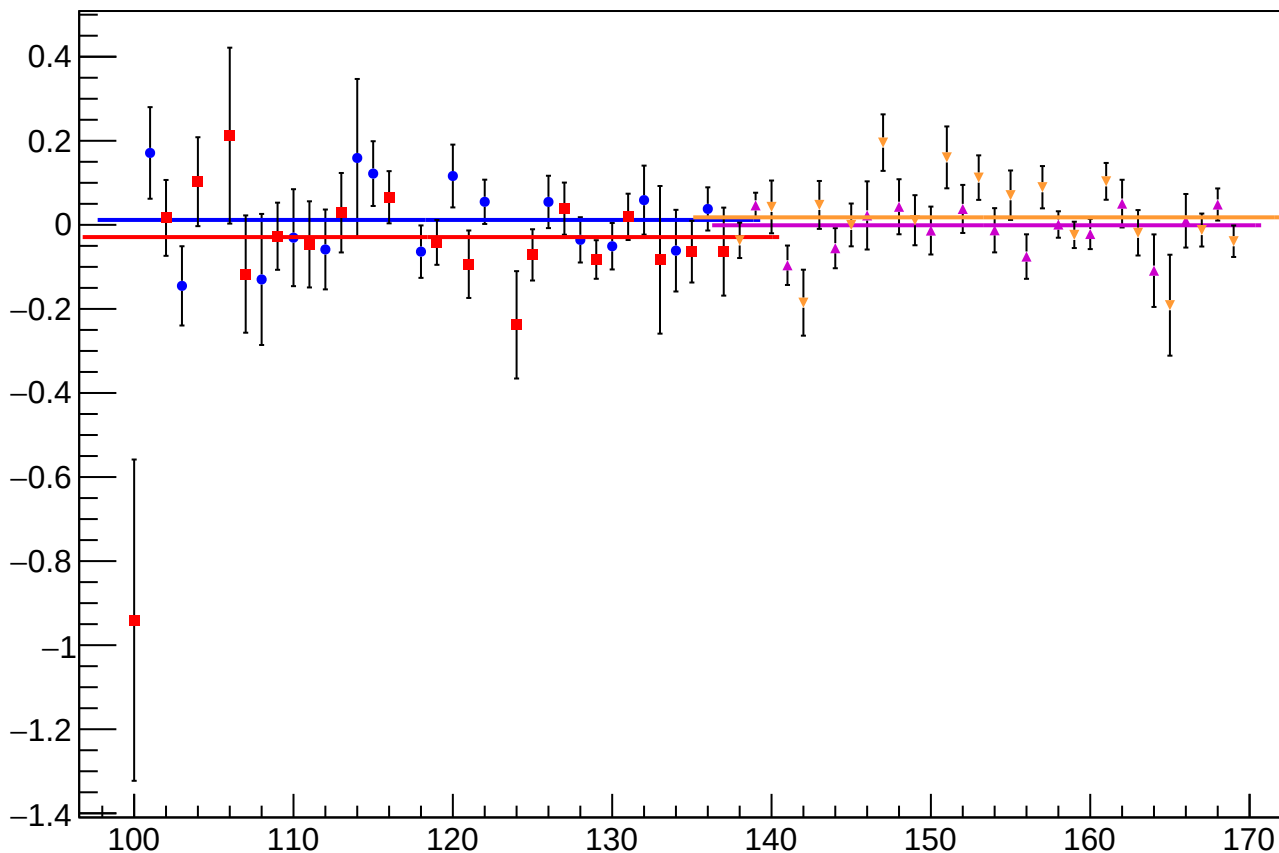
Right: 0.000+/-0.000 χ^2/NDF : 5394567.7/34

In: 0.000+/-0.000 χ^2/NDF :4117965.5/30

Out: 0.000+/-0.000 χ^2/NDF :7169524.0/35

All: 0.000+/-0.000 χ^2/NDF : 12370790.4/66

asym_sam_3726_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 ± 0.018 $\chi^2/\text{NDF}: 16.9/15$

Left Out: 0.018 ± 0.012 $\chi^2/\text{NDF}: 37.7/16$

Right Out: -0.029 ± 0.018 $\chi^2/\text{NDF}: 19.5/18$

Left In: -0.001 ± 0.012 $\chi^2/\text{NDF}: 15.4/14$

Left: 0.008 ± 0.009 $\chi^2/\text{NDF}: 54.3/31$

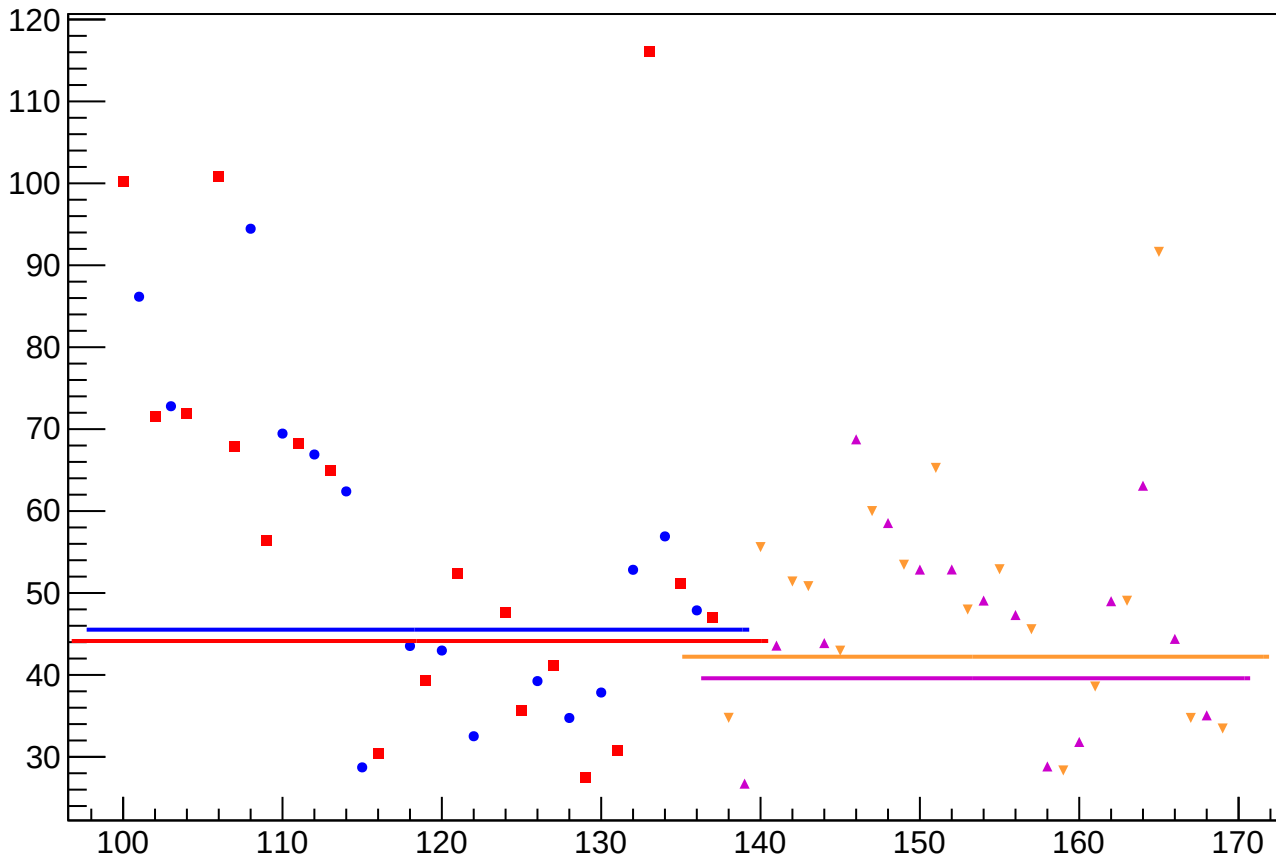
Right: -0.009 ± 0.013 $\chi^2/\text{NDF}: 38.9/34$

In: 0.003 ± 0.010 $\chi^2/\text{NDF}: 32.6/30$

Out: 0.003 ± 0.010 $\chi^2/\text{NDF}: 62.0/35$

All: 0.003 ± 0.007 $\chi^2/\text{NDF}: 94.6/66$

asym_sam_3726_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525 $\pm$ 0.013 χ^2 /NDF: 1253967.4/15

Left Out: 42.225 $\pm$ 0.009 χ^2 /NDF: 1692191.1/16

Right Out: 44.141 $\pm$ 0.013 χ^2 /NDF: 1743430.9/18

Left In: 39.594 $\pm$ 0.009 χ^2 /NDF: 1715258.6/14

Left: 40.895 $\pm$ 0.006 χ^2 /NDF: 3454493.0/31

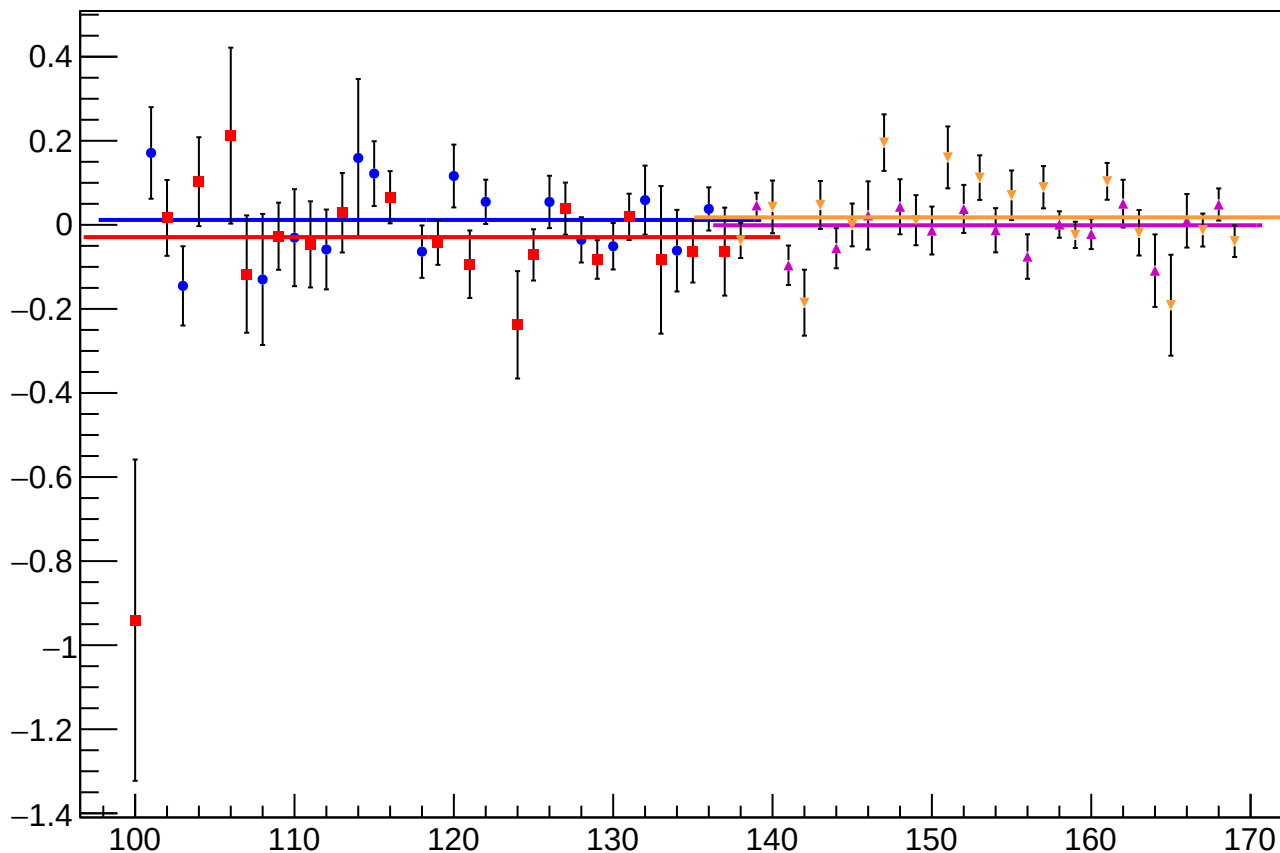
Right: 44.816 $\pm$ 0.009 χ^2 /NDF: 3003242.5/34

In: 41.388 $\pm$ 0.007 χ^2 /NDF: 3115472.0/30

Out: 42.833 $\pm$ 0.007 χ^2 /NDF: 3451295.6/35

All: 42.110 $\pm$ 0.005 χ^2 /NDF: 6587344.0/66

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 ± 0.018 χ^2/NDF : 16.9/15

Left Out: 0.018 ± 0.012 χ^2/NDF : 37.7/16

Right Out: -0.029 ± 0.018 χ^2/NDF : 19.5/18

Left In: -0.001 ± 0.012 χ^2/NDF : 15.4/14

Left: 0.008 ± 0.009 χ^2/NDF : 54.3/31

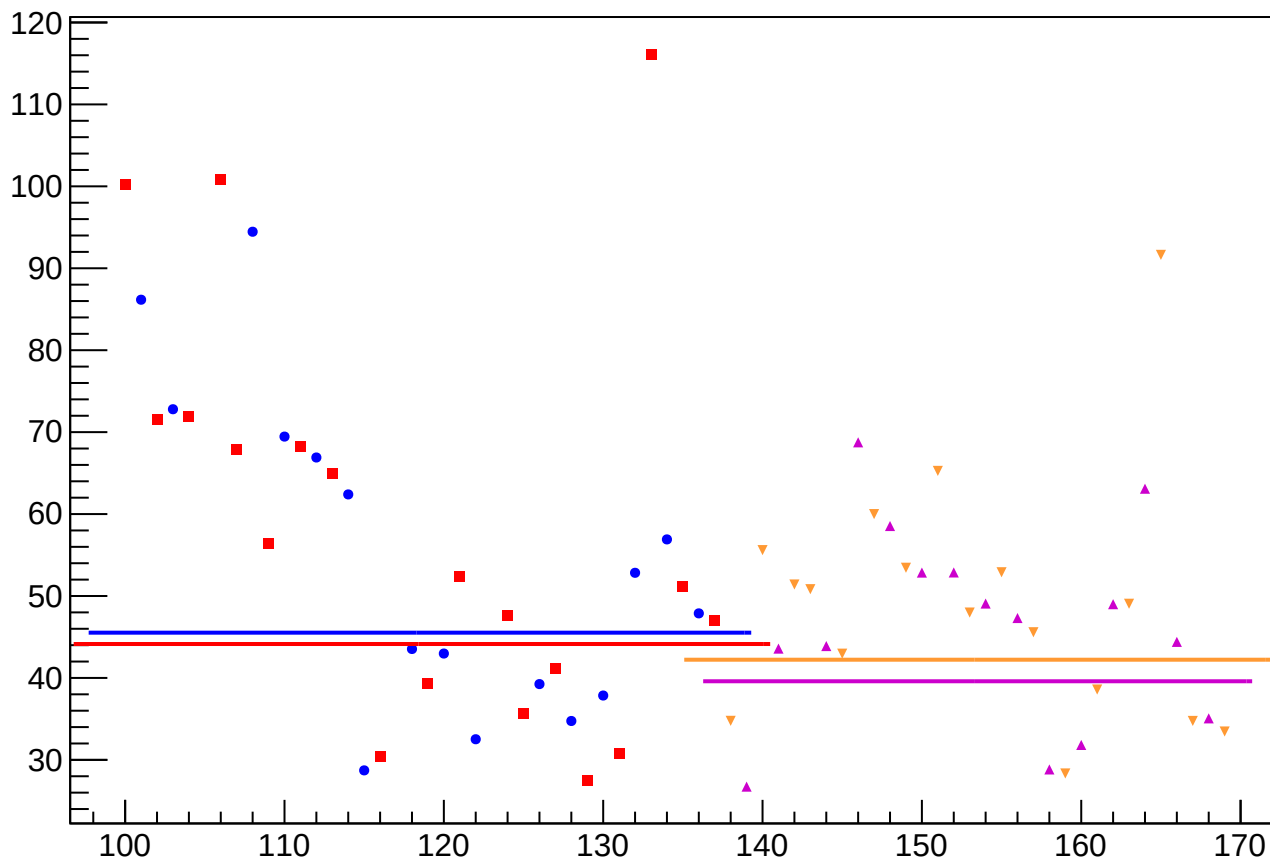
Right: -0.009 ± 0.013 χ^2/NDF : 38.9/34

In: 0.003 ± 0.010 χ^2/NDF : 32.6/30

Out: 0.003 ± 0.010 χ^2/NDF : 62.0/35

All: 0.003 ± 0.007 χ^2/NDF : 94.6/66

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525+/-0.013 χ^2/NDF : 1253967.4/15

Left Out: 42.225+/-0.009 χ^2/NDF : 1692191.1/16

Right Out: 44.141+/-0.013 χ^2/NDF : 1743430.9/18

Left In: 39.594+/-0.009 χ^2/NDF : 1715258.6/14

Left: 40.895+/-0.006 χ^2/NDF : 3454493.0/31

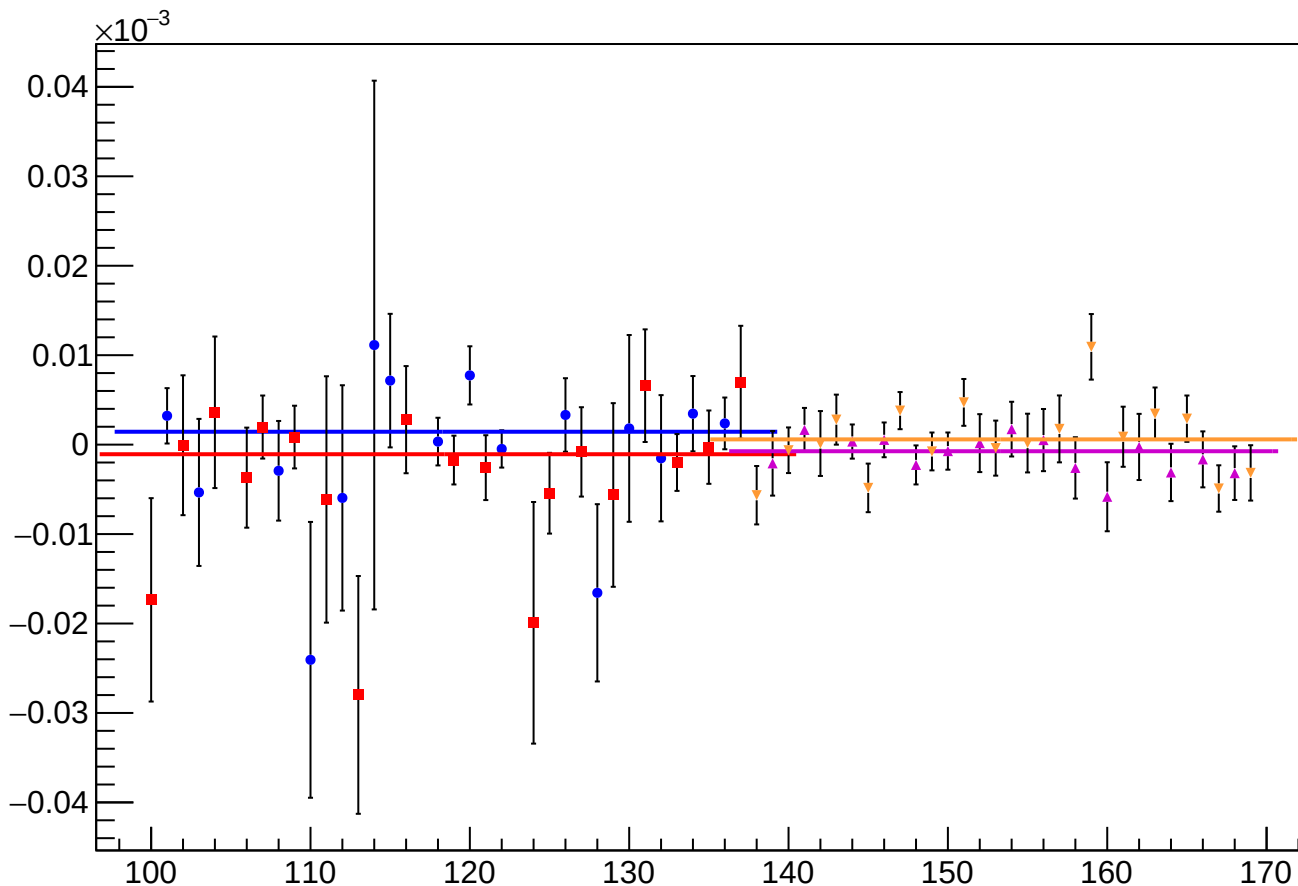
Right: 44.816+/-0.009 χ^2/NDF : 3003242.5/34

In: 41.388+/-0.007 χ^2/NDF : 3115472.0/30

Out: 42.833+/-0.007 χ^2/NDF : 3451295.6/35

All: 42.110+/-0.005 χ^2/NDF : 6587344.0/66

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 14.2/15

Left Out: 0.000 $\pm$ 0.000 χ^2 /NDF:29.7/16

Right Out: -0.000 $\pm$ 0.000 χ^2 /NDF: 14.8/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:6.5/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 38.1/31

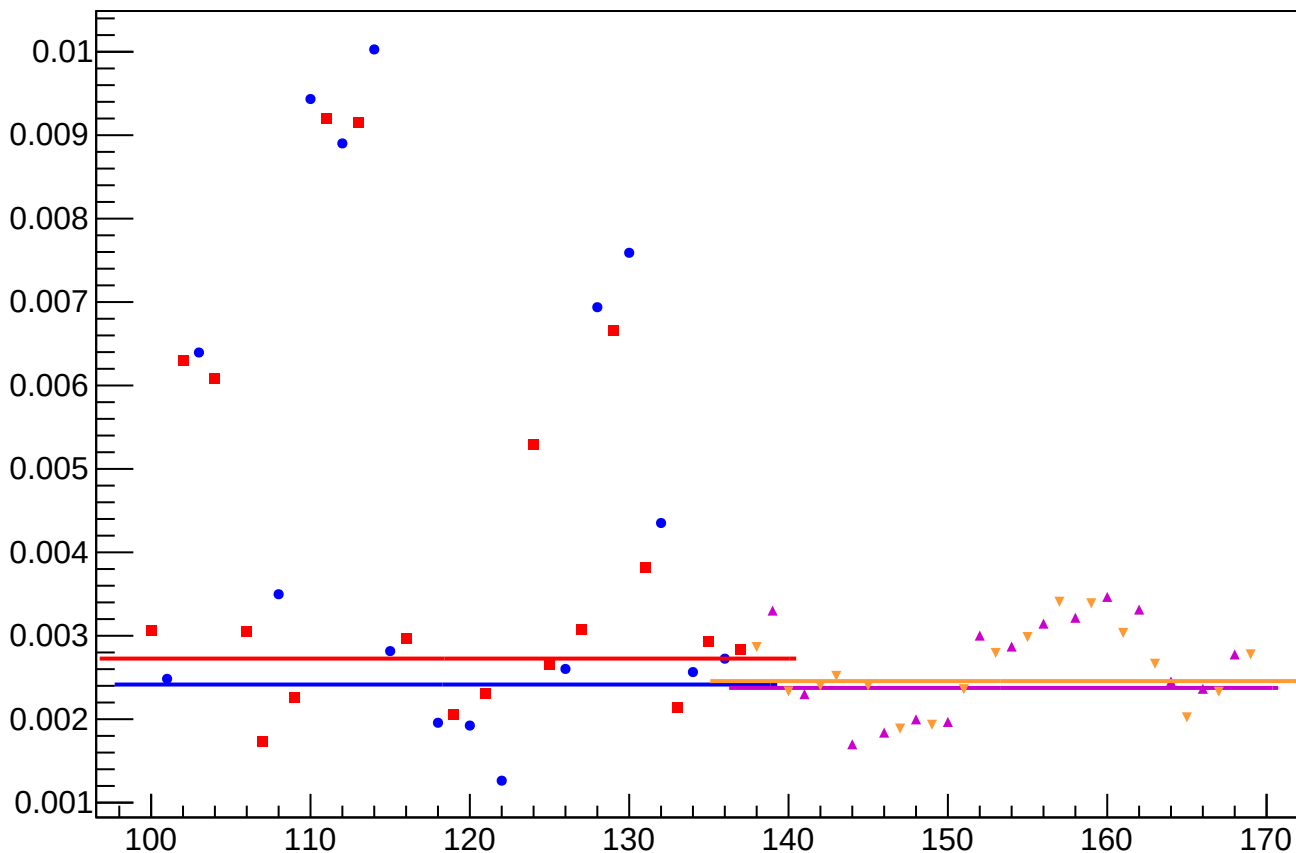
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 31.7/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:23.7/30

Out: 0.000 $\pm$ 0.000 χ^2 /NDF:46.1/35

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 69.9/66

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3432108.8/15

Left Out: 0.002+/-0.000 χ^2/NDF : 799904.5/16

Right Out: 0.003+/-0.000 χ^2/NDF : 2505080.1/18

Left In: 0.002+/-0.000 χ^2/NDF : 1344405.0/14

Left: 0.002+/-0.000 χ^2/NDF : 2158308.6/31

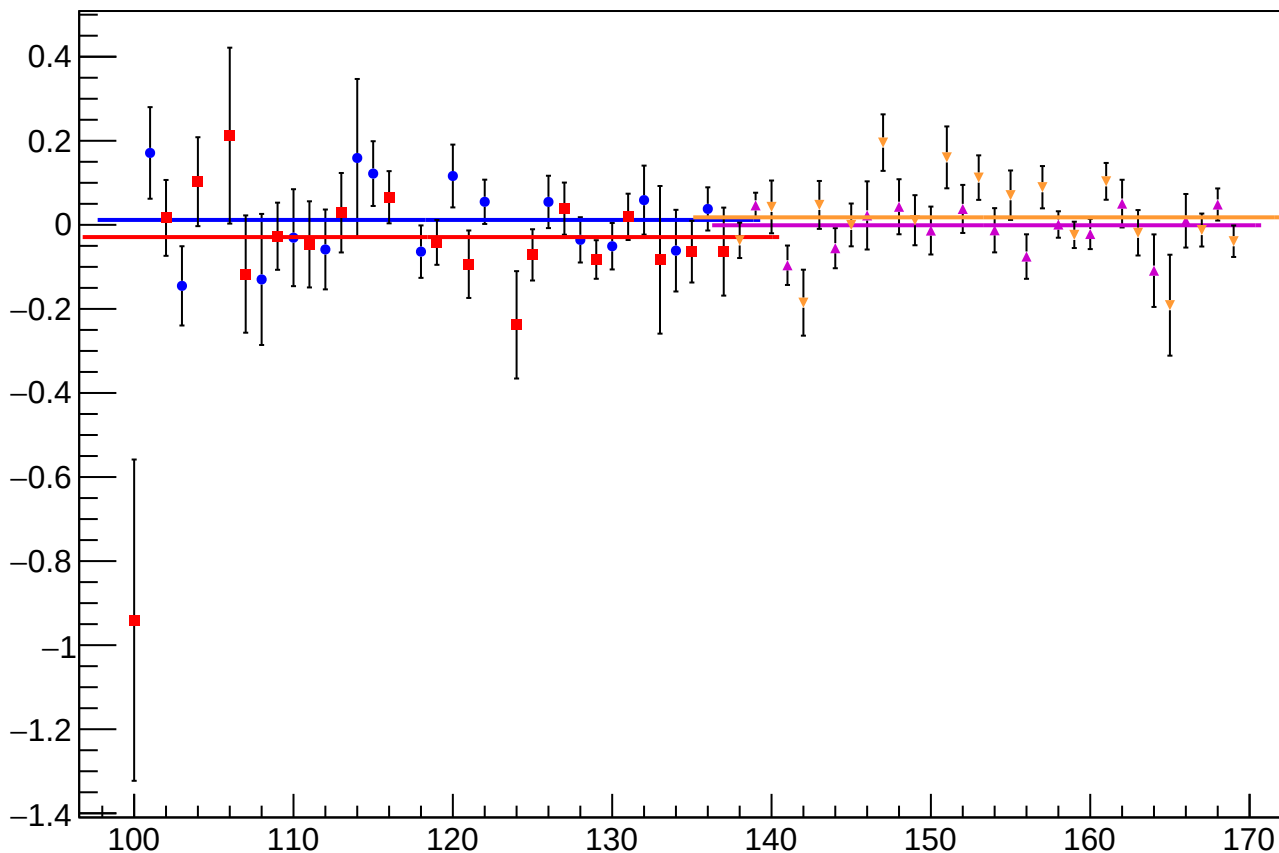
Right: 0.003+/-0.000 χ^2/NDF : 6019731.5/34

In: 0.002+/-0.000 χ^2/NDF : 4778614.2/30

Out: 0.003+/-0.000 χ^2/NDF : 3389393.9/35

All: 0.002+/-0.000 χ^2/NDF : 8227700.4/66

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 ± 0.018 χ^2/NDF : 16.9/15

Left Out: 0.018 ± 0.012 χ^2/NDF : 37.7/16

Right Out: -0.029 ± 0.018 χ^2/NDF : 19.5/18

Left In: -0.001 ± 0.012 χ^2/NDF : 15.4/14

Left: 0.008 ± 0.009 χ^2/NDF : 54.3/31

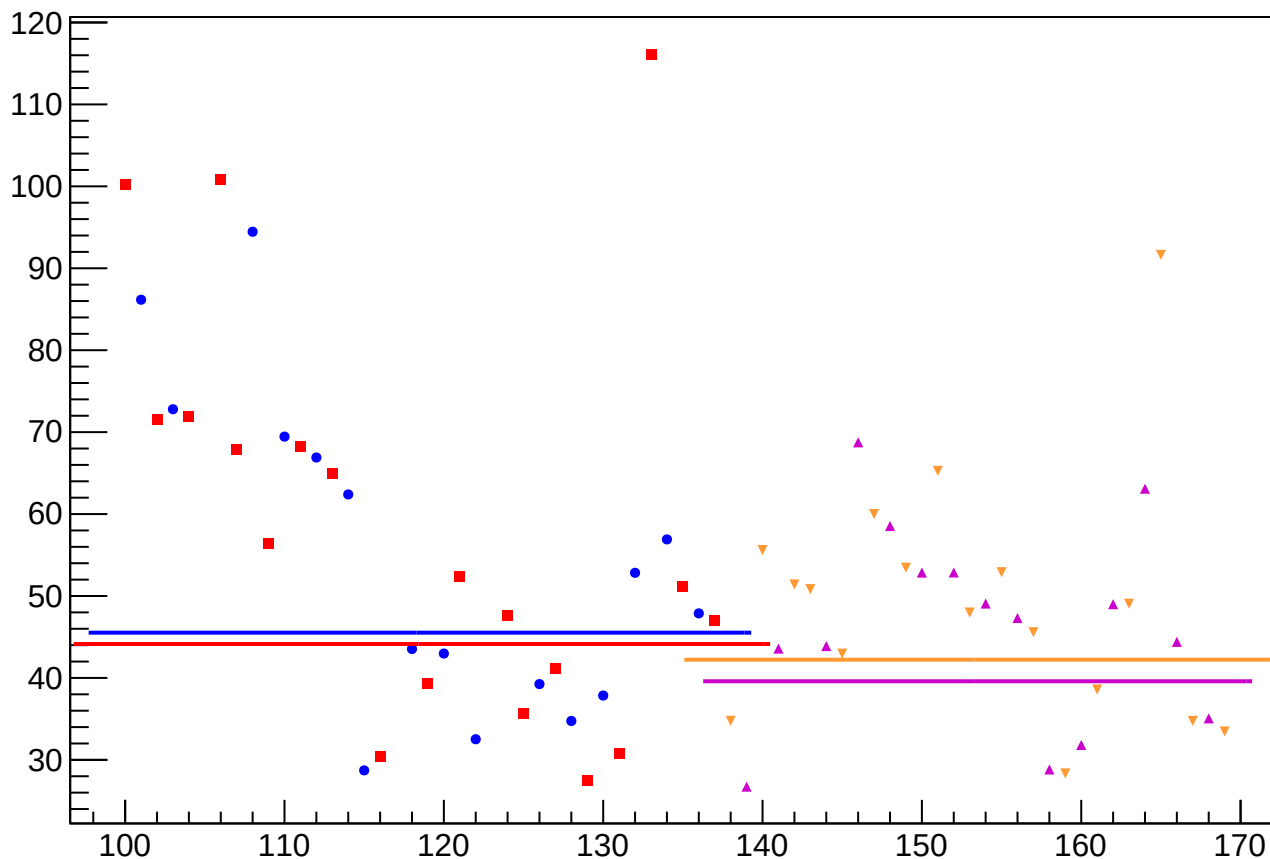
Right: -0.009 ± 0.013 χ^2/NDF : 38.9/34

In: 0.003 ± 0.010 χ^2/NDF : 32.6/30

Out: 0.003 ± 0.010 χ^2/NDF : 62.0/35

All: 0.003 ± 0.007 χ^2/NDF : 94.6/66

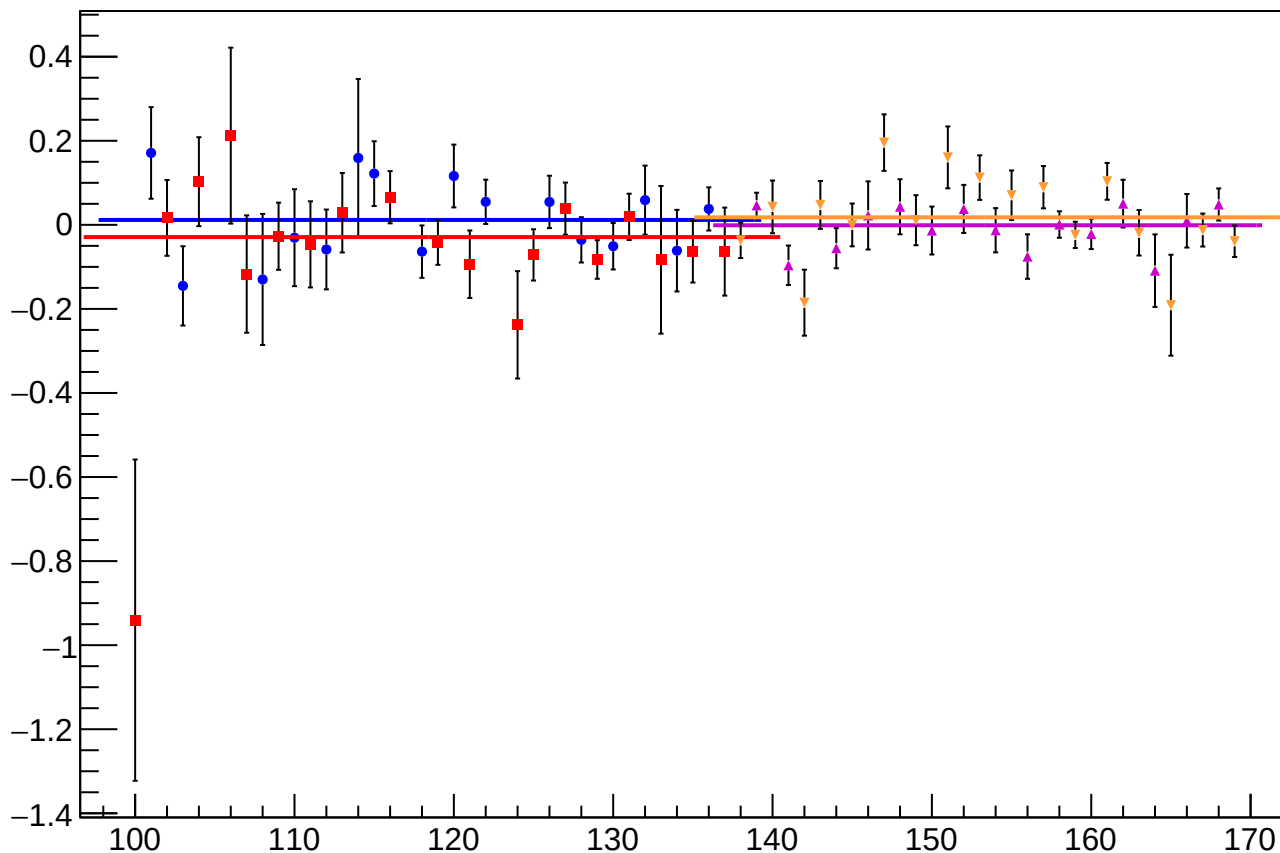
asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525 $\pm$ 0.013 χ^2 /NDF: 1253922.0/15
 Left Out: 42.225 $\pm$ 0.009 χ^2 /NDF: 1692215.9/16
 Right Out: 44.141 $\pm$ 0.013 χ^2 /NDF: 1743351.0/18
 Left In: 39.594 $\pm$ 0.009 χ^2 /NDF: 1715306.0/14

Left: 40.895 $\pm$ 0.006 χ^2 /NDF: 3454565.1/31
 Right: 44.816 $\pm$ 0.009 χ^2 /NDF: 3003114.2/34
 In: 41.388 $\pm$ 0.007 χ^2 /NDF: 3115459.5/30
 Out: 42.833 $\pm$ 0.007 χ^2 /NDF: 3451241.2/35
 All: 42.111 $\pm$ 0.005 χ^2 /NDF: 6587279.7/66

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.012 ± 0.018 $\chi^2/\text{NDF}: 16.9/15$

Left Out: 0.018 ± 0.012 $\chi^2/\text{NDF}: 37.7/16$

Right Out: -0.029 ± 0.018 $\chi^2/\text{NDF}: 19.5/18$

Left In: -0.001 ± 0.012 $\chi^2/\text{NDF}: 15.4/14$

Left: 0.008 ± 0.009 $\chi^2/\text{NDF}: 54.3/31$

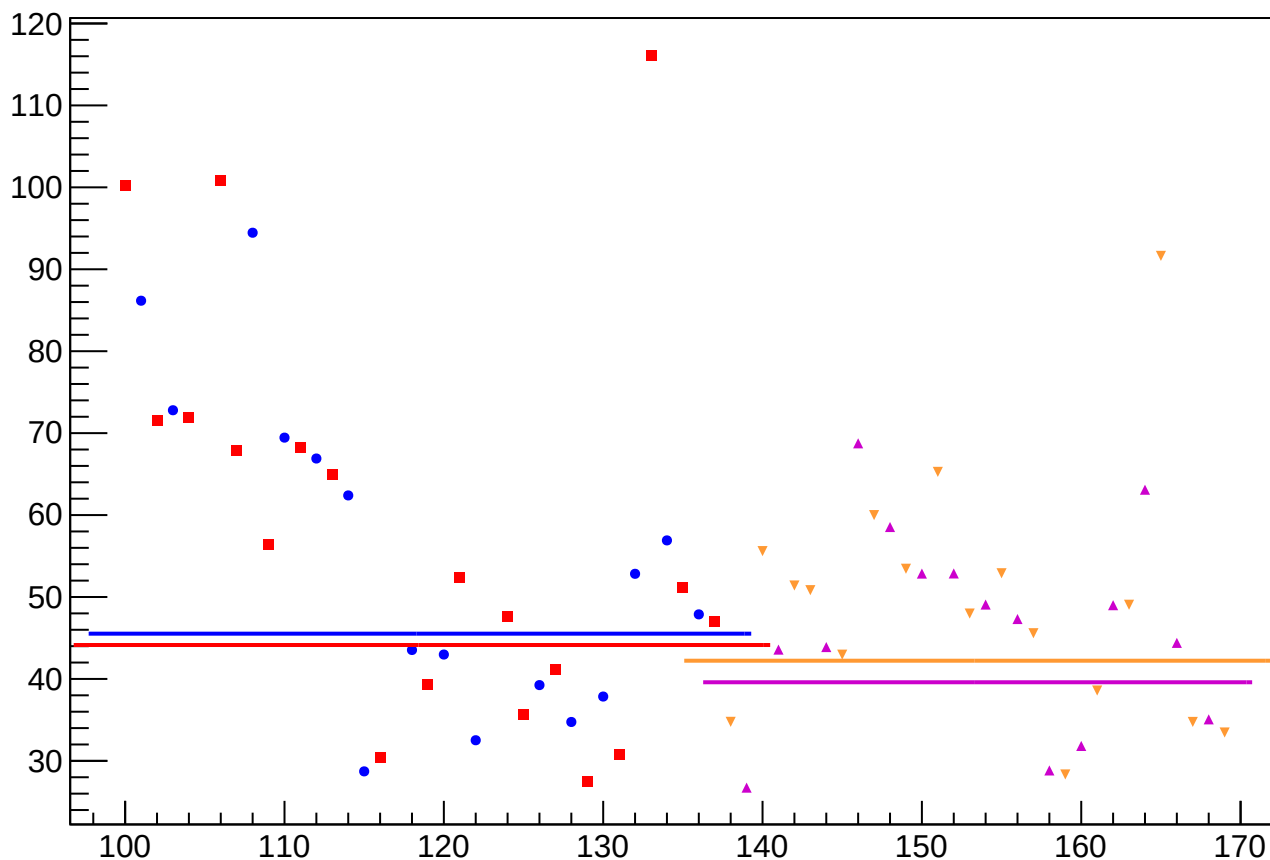
Right: -0.009 ± 0.013 $\chi^2/\text{NDF}: 38.9/34$

In: 0.003 ± 0.010 $\chi^2/\text{NDF}: 32.6/30$

Out: 0.003 ± 0.010 $\chi^2/\text{NDF}: 62.0/35$

All: 0.003 ± 0.007 $\chi^2/\text{NDF}: 94.6/66$

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 45.525 $\pm$ 0.013 χ^2/NDF : 1253922.0/15

Left Out: 42.225 $\pm$ 0.009 χ^2/NDF :1692215.9/16

Right Out: 44.141 $\pm$ 0.013 χ^2/NDF : 1743351.0/18

Left In: 39.594 $\pm$ 0.009 χ^2/NDF :1715306.0/14

Left: 40.895 $\pm$ 0.006 χ^2/NDF : 3454565.1/31

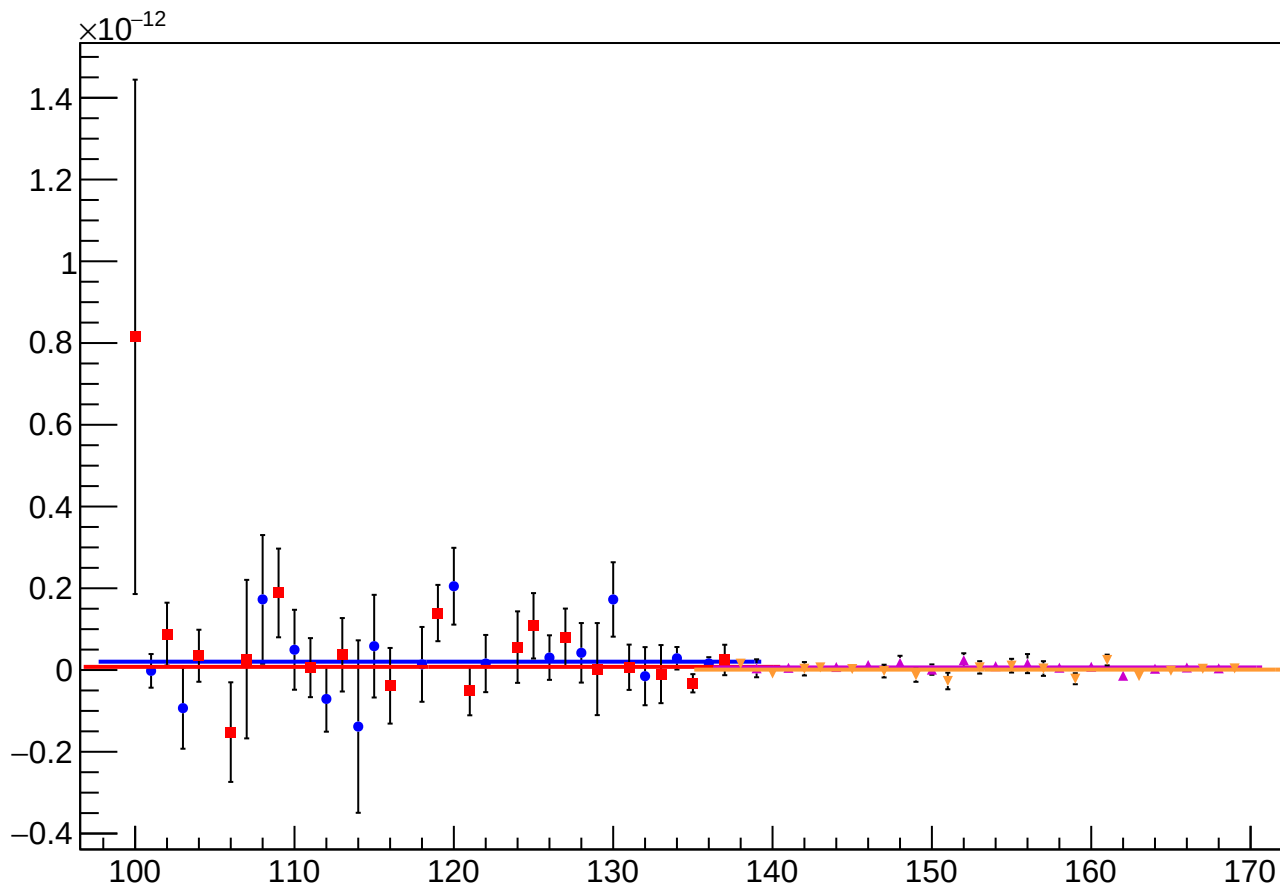
Right: 44.816 $\pm$ 0.009 χ^2/NDF : 3003114.2/34

In: 41.388 $\pm$ 0.007 χ^2/NDF :3115459.5/30

Out: 42.833 $\pm$ 0.007 χ^2/NDF :3451241.2/35

All: 42.111 $\pm$ 0.005 χ^2/NDF : 6587279.7/66

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 11.8/15

Left Out: 0.000+/-0.000 χ^2/NDF :13.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 18.8/18

Left In: 0.000+/-0.000 χ^2/NDF :5.3/14

Left: 0.000+/-0.000 χ^2/NDF : 20.8/31

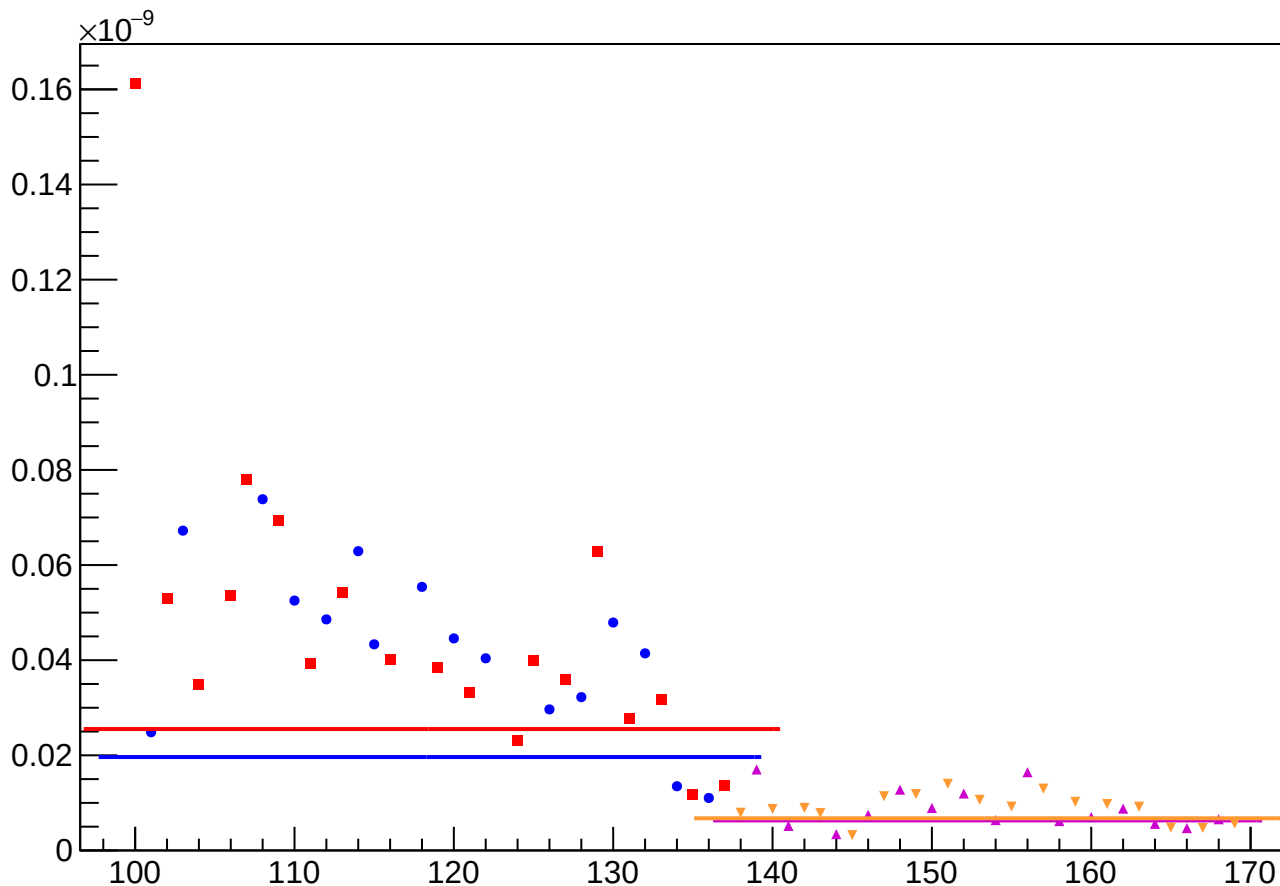
Right: 0.000+/-0.000 χ^2/NDF : 31.1/34

In: 0.000+/-0.000 χ^2/NDF :18.6/30

Out: 0.000+/-0.000 χ^2/NDF :32.5/35

All: 0.000+/-0.000 χ^2/NDF : 53.6/66

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3241093.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2600857.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2703953.2/18

Left In: 0.000+/-0.000 χ^2/NDF : 2186221.5/14

Left: 0.000+/-0.000 χ^2/NDF : 4816068.9/31

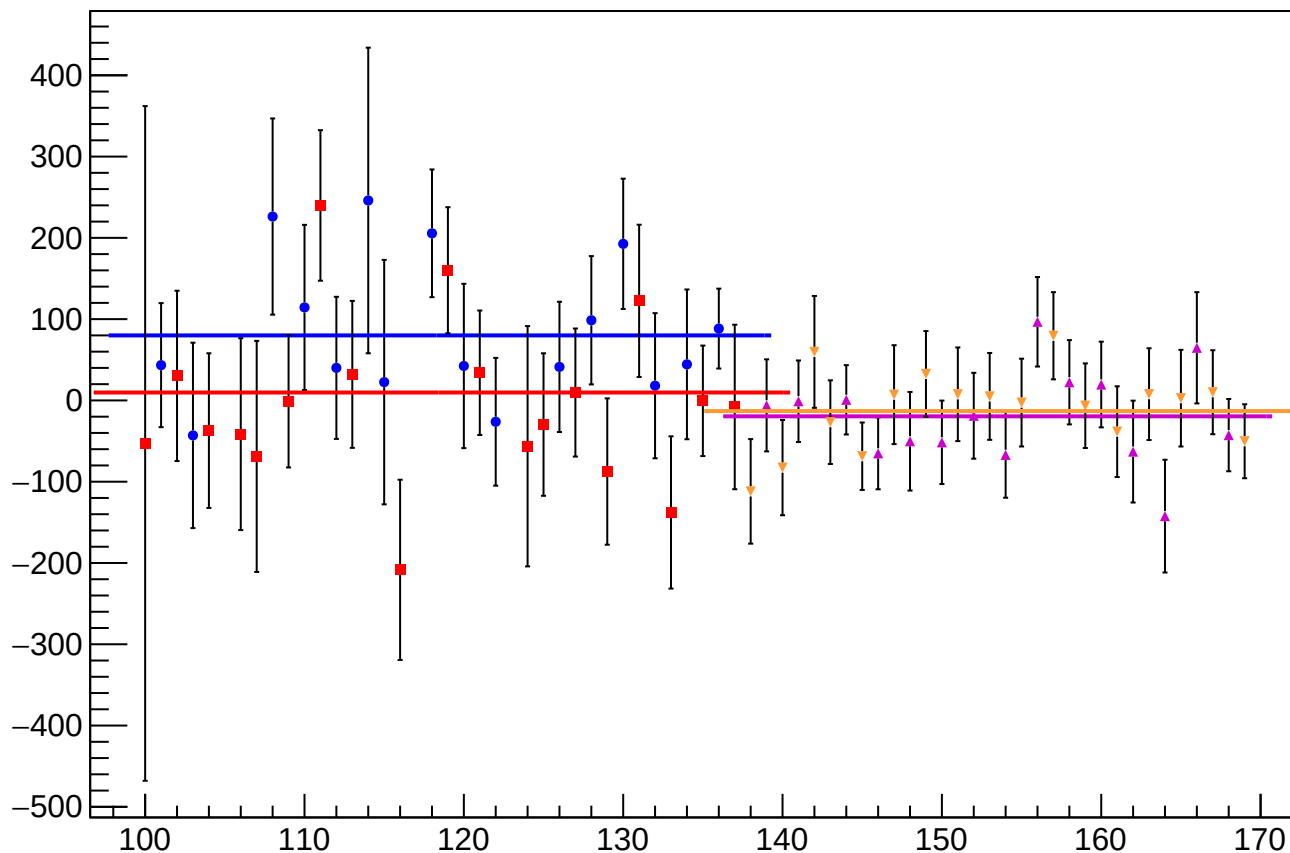
Right: 0.000+/-0.000 χ^2/NDF : 6166556.0/34

In: 0.000+/-0.000 χ^2/NDF : 8117548.2/30

Out: 0.000+/-0.000 χ^2/NDF : 8922435.9/35

All: 0.000+/-0.000 χ^2/NDF : 17064244.1/66

reg_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 79.993 ± 21.474 χ^2/NDF : 11.6/15

Left Out: -13.077 ± 13.109 χ^2/NDF : 12.2/16

Right Out: 9.730 ± 21.617 χ^2/NDF : 20.3/18

Left In: -19.581 ± 13.630 χ^2/NDF : 14.0/14

Left: -16.203 ± 9.448 χ^2/NDF : 26.3/31

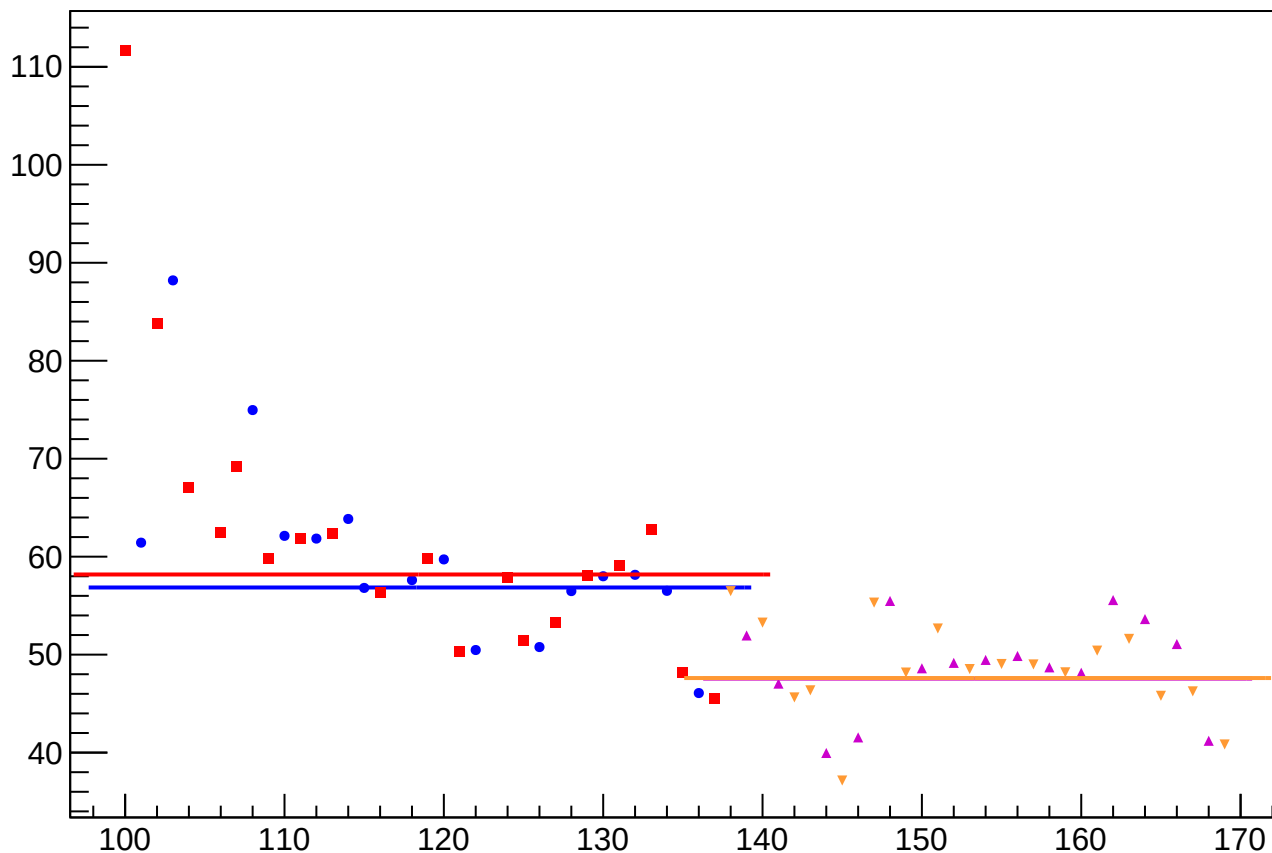
Right: 45.094 ± 15.235 χ^2/NDF : 37.2/34

In: 9.013 ± 11.508 χ^2/NDF : 40.9/30

Out: -6.946 ± 11.209 χ^2/NDF : 33.3/35

All: 0.824 ± 8.029 χ^2/NDF : 75.2/66

reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 56.854 $\pm$ 0.015 χ^2 /NDF: 341601.2/15

Left Out: 47.610 $\pm$ 0.009 χ^2 /NDF:300623.8/16

Right Out: 58.181 $\pm$ 0.015 χ^2 /NDF: 314660.6/18

Left In: 47.553 $\pm$ 0.010 χ^2 /NDF:250897.6/14

Left: 47.582 $\pm$ 0.007 χ^2 /NDF: 551539.9/31

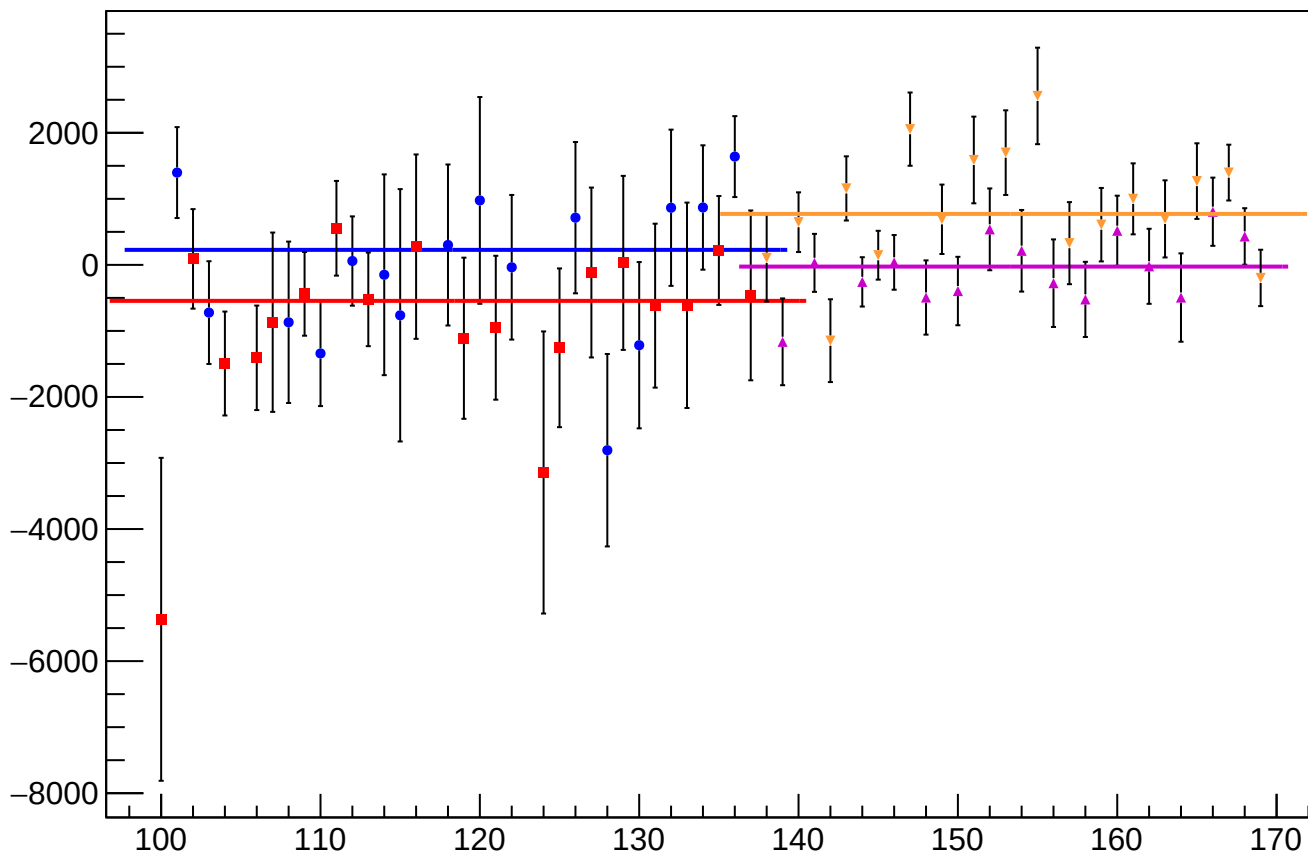
Right: 57.513 $\pm$ 0.011 χ^2 /NDF: 660056.1/34

In: 50.224 $\pm$ 0.008 χ^2 /NDF:859990.2/30

Out: 50.452 $\pm$ 0.008 χ^2 /NDF:964997.5/35

All: 50.341 $\pm$ 0.006 χ^2 /NDF: 1825392.2/66

asym_sam_15_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 227.508 $\pm$ 241.225 χ^2 /NDF: 21.6/15

Left Out: 772.088 $\pm$ 127.895 χ^2 /NDF:37.9/16

Right Out: -544.769 $\pm$ 227.243 χ^2 /NDF: 13.4/18

Left In: -25.825 $\pm$ 133.528 χ^2 /NDF:11.8/14

Left: 390.316 $\pm$ 92.362 χ^2 /NDF: 68.3/31

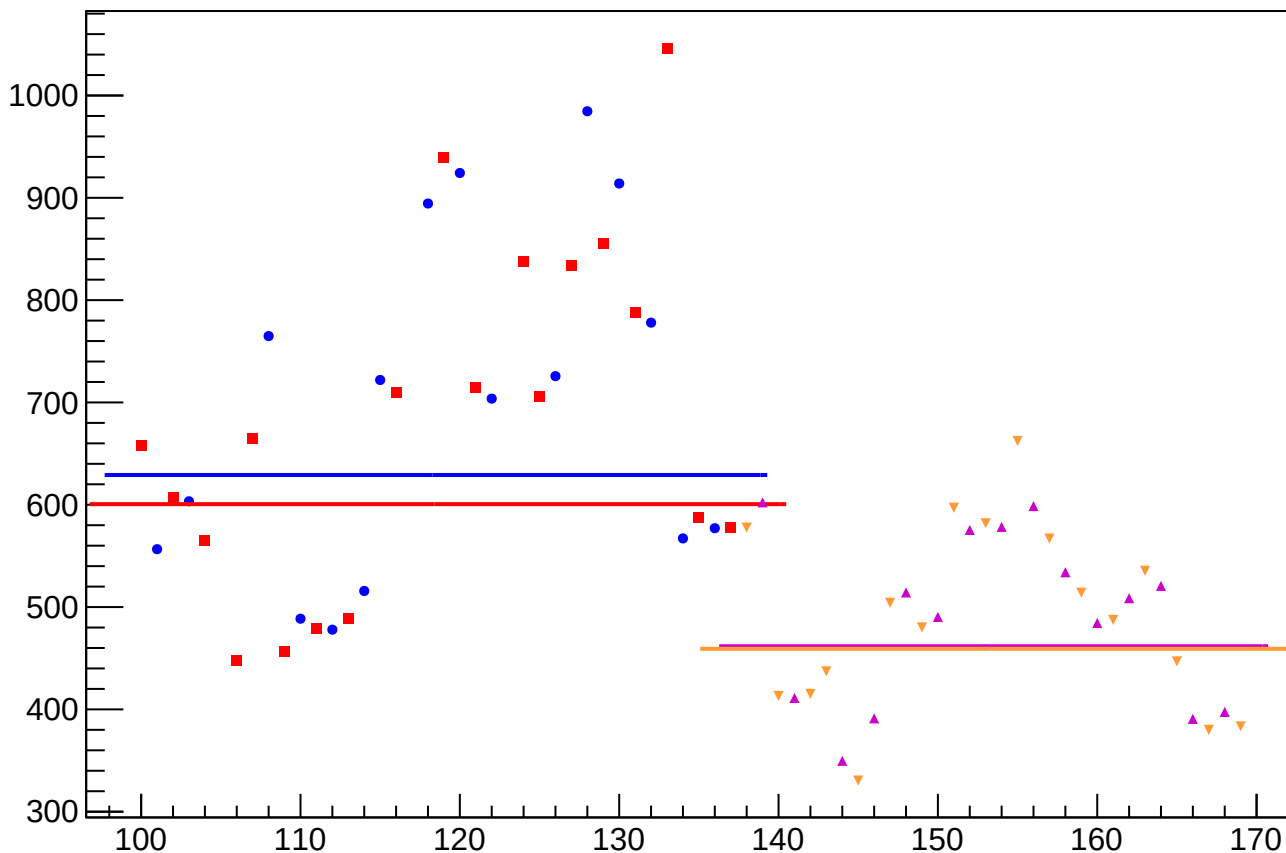
Right: -181.660 $\pm$ 165.407 χ^2 /NDF: 40.4/34

In: 33.592 $\pm$ 116.824 χ^2 /NDF:34.3/30

Out: 455.307 $\pm$ 111.455 χ^2 /NDF:76.7/35

All: 254.362 $\pm$ 80.642 χ^2 /NDF: 117.8/66

asym_sam_15_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 629.096 $\pm$ 0.171 χ^2 /NDF: 692724.2/15

Left Out: 459.197 $\pm$ 0.090 χ^2 /NDF: 927634.1/16

Right Out: 600.593 $\pm$ 0.161 χ^2 /NDF: 874614.2/18

Left In: 461.704 $\pm$ 0.094 χ^2 /NDF: 751867.6/14

Left: 460.396 $\pm$ 0.065 χ^2 /NDF: 1679869.2/31

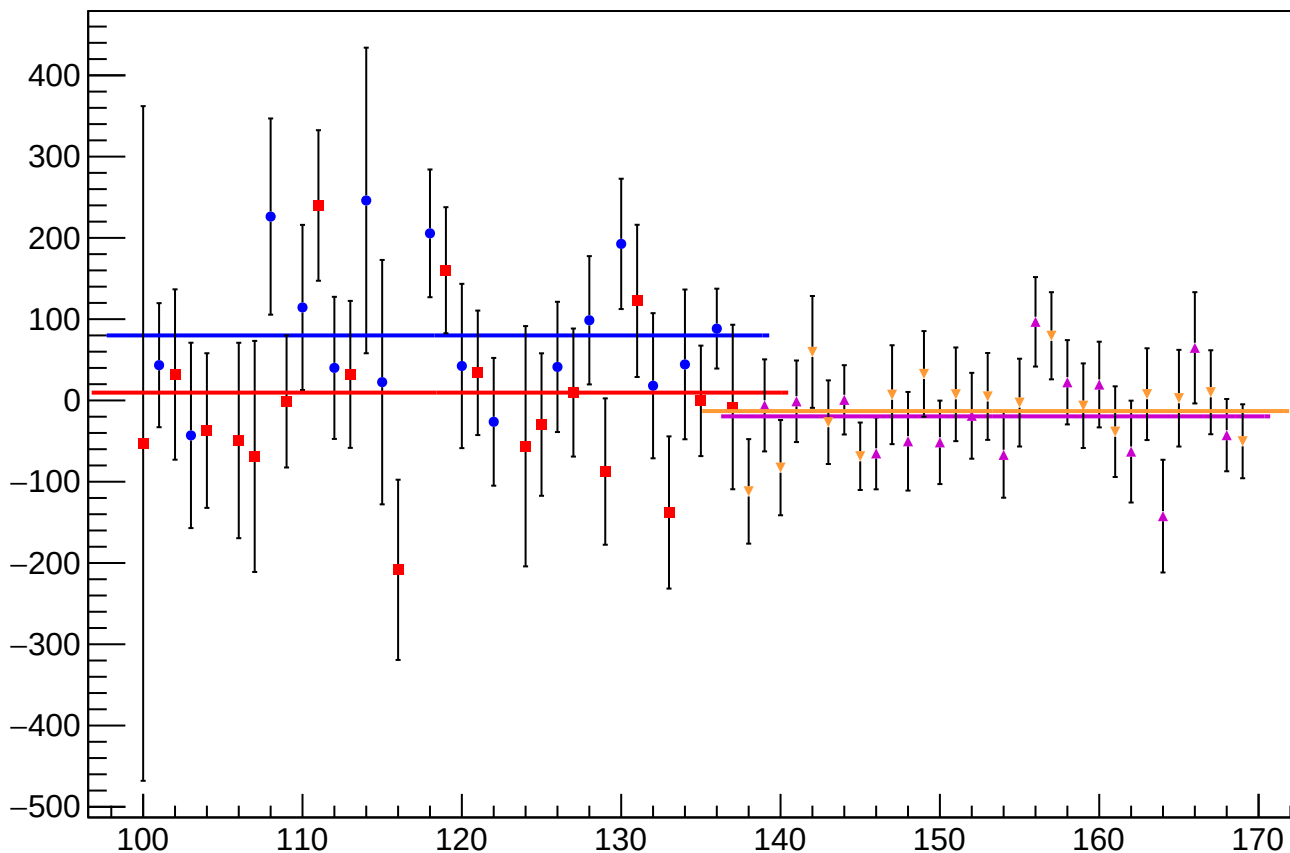
Right: 613.994 $\pm$ 0.117 χ^2 /NDF: 1582132.3/34

In: 500.964 $\pm$ 0.083 χ^2 /NDF: 2181778.1/30

Out: 493.211 $\pm$ 0.079 χ^2 /NDF: 2390304.3/35

All: 496.905 $\pm$ 0.057 χ^2 /NDF: 4576693.4/66

cor_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 79.998 $\pm$ 21.474 χ^2 /NDF: 11.6/15

Left Out: -13.080 $\pm$ 13.109 χ^2 /NDF:12.2/16

Right Out: 9.619 $\pm$ 21.631 χ^2 /NDF: 20.4/18

Left In: -19.582 $\pm$ 13.630 χ^2 /NDF:14.0/14

Left: -16.204 $\pm$ 9.448 χ^2 /NDF: 26.3/31

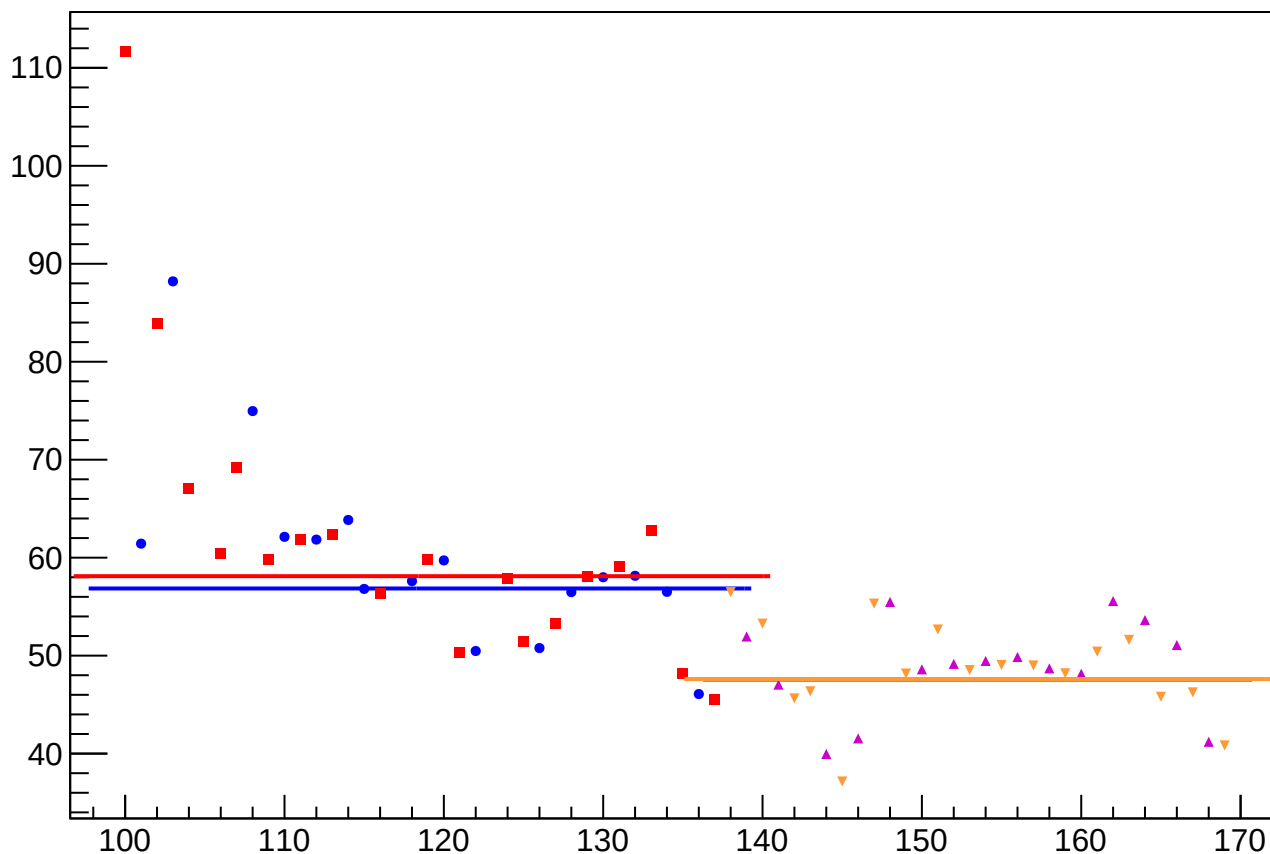
Right: 45.064 $\pm$ 15.240 χ^2 /NDF: 37.3/34

In: 9.013 $\pm$ 11.508 χ^2 /NDF:40.9/30

Out: -6.983 $\pm$ 11.211 χ^2 /NDF:33.4/35

All: 0.806 $\pm$ 8.030 χ^2 /NDF: 75.3/66

cor_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 56.854 $\pm$ 0.015 χ^2 /NDF: 341605.0/15

Left Out: 47.610 $\pm$ 0.009 χ^2 /NDF: 300623.8/16

Right Out: 58.111 $\pm$ 0.015 χ^2 /NDF: 312938.5/18

Left In: 47.553 $\pm$ 0.010 χ^2 /NDF: 250897.6/14

Left: 47.582 $\pm$ 0.007 χ^2 /NDF: 551539.9/31

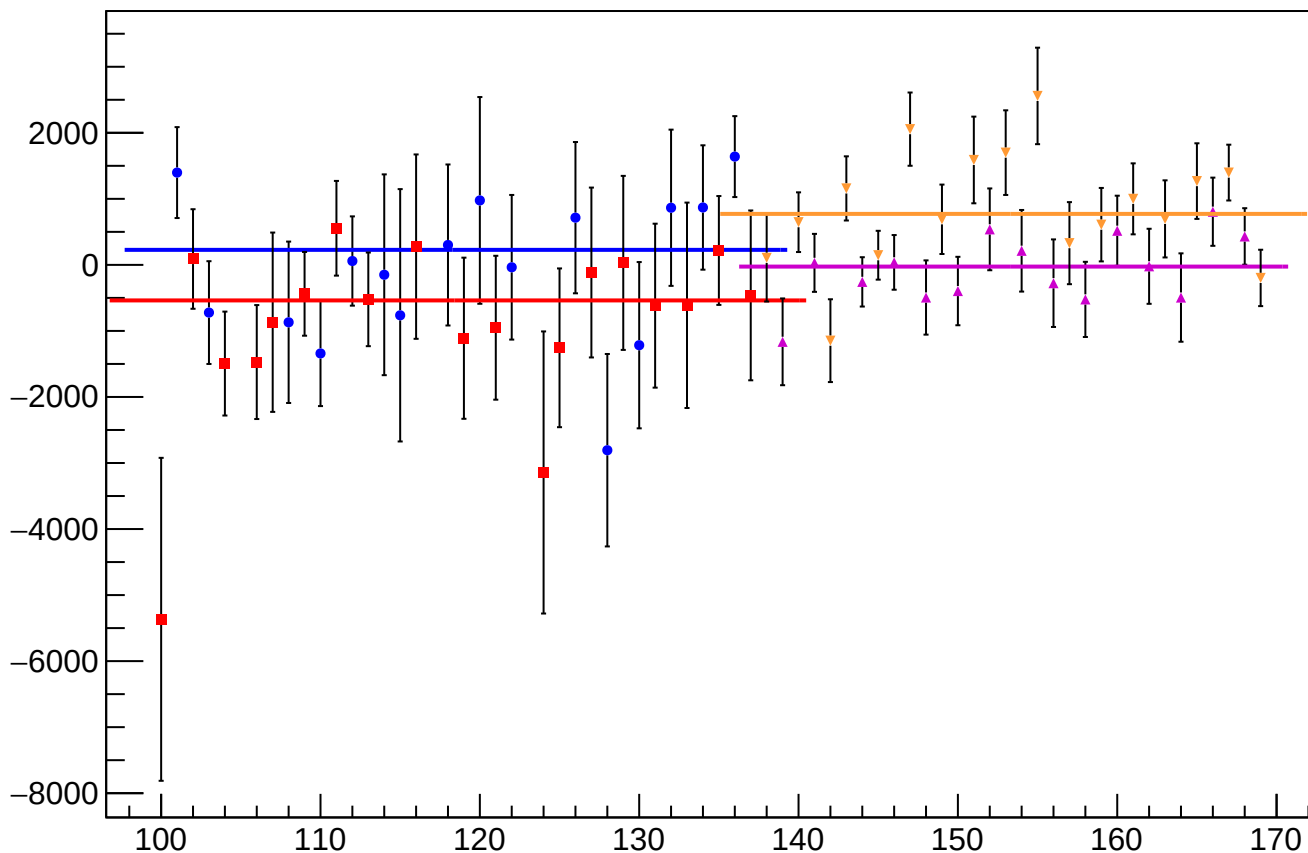
Right: 57.478 $\pm$ 0.011 χ^2 /NDF: 657942.0/34

In: 50.224 $\pm$ 0.008 χ^2 /NDF: 859994.2/30

Out: 50.430 $\pm$ 0.008 χ^2 /NDF: 958295.0/35

All: 50.330 $\pm$ 0.006 χ^2 /NDF: 1818620.8/66

asym_sam_15_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 227.547 ± 241.227 χ^2/NDF : 21.6/15

Left Out: 772.085 ± 127.895 χ^2/NDF : 37.9/16

Right Out: -538.117 ± 228.754 χ^2/NDF : 13.3/18

Left In: -25.828 ± 133.528 χ^2/NDF : 11.8/14

Left: 390.313 ± 92.362 χ^2/NDF : 68.3/31

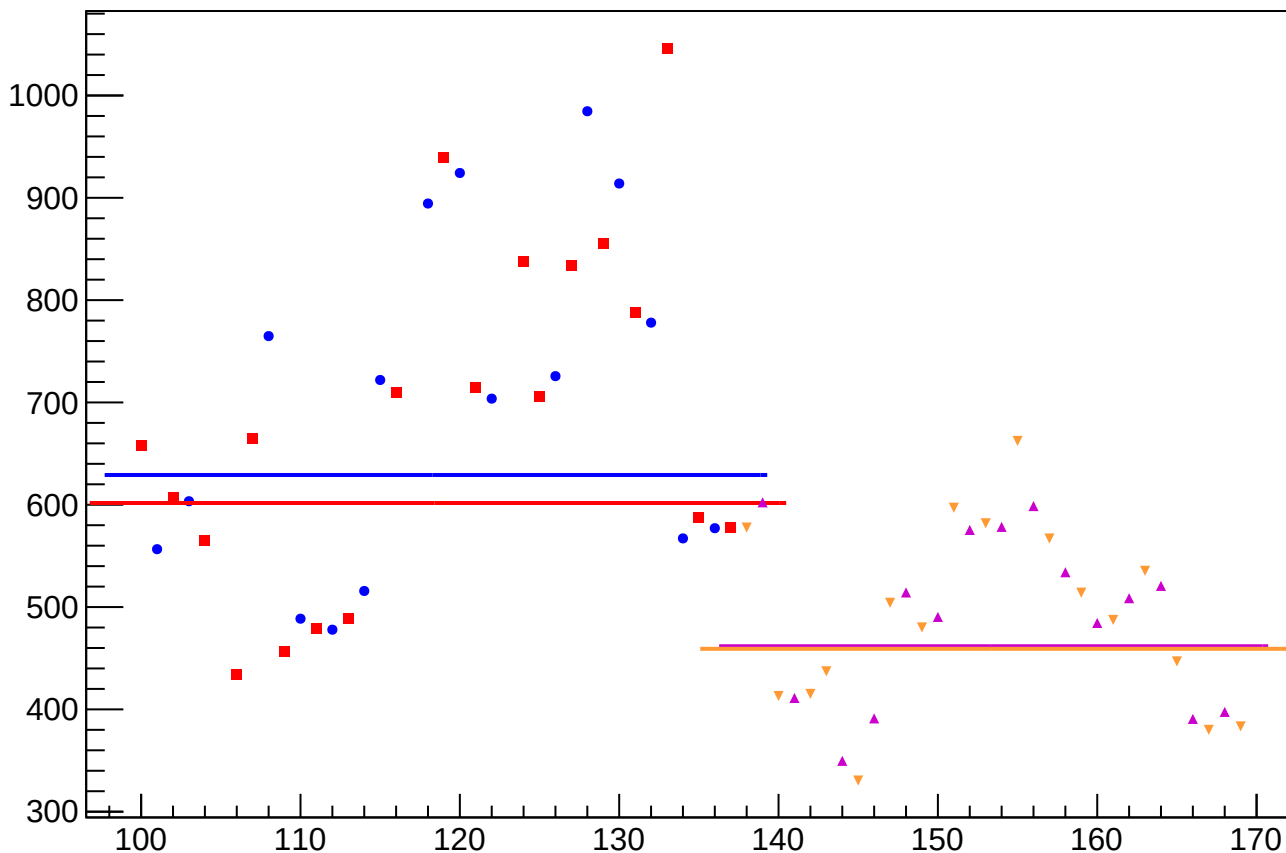
Right: -175.590 ± 165.988 χ^2/NDF : 40.3/34

In: 33.598 ± 116.824 χ^2/NDF : 34.3/30

Out: 460.068 ± 111.632 χ^2/NDF : 76.2/35

All: 256.520 ± 80.709 χ^2/NDF : 117.4/66

asym_sam_15_48_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 629.101 $\pm$ 0.171 χ^2 /NDF: 692716.0/15

Left Out: 459.197 $\pm$ 0.090 χ^2 /NDF: 927634.7/16

Right Out: 601.721 $\pm$ 0.162 χ^2 /NDF: 874042.1/18

Left In: 461.704 $\pm$ 0.094 χ^2 /NDF: 751864.8/14

Left: 460.396 $\pm$ 0.065 χ^2 /NDF: 1679867.1/31

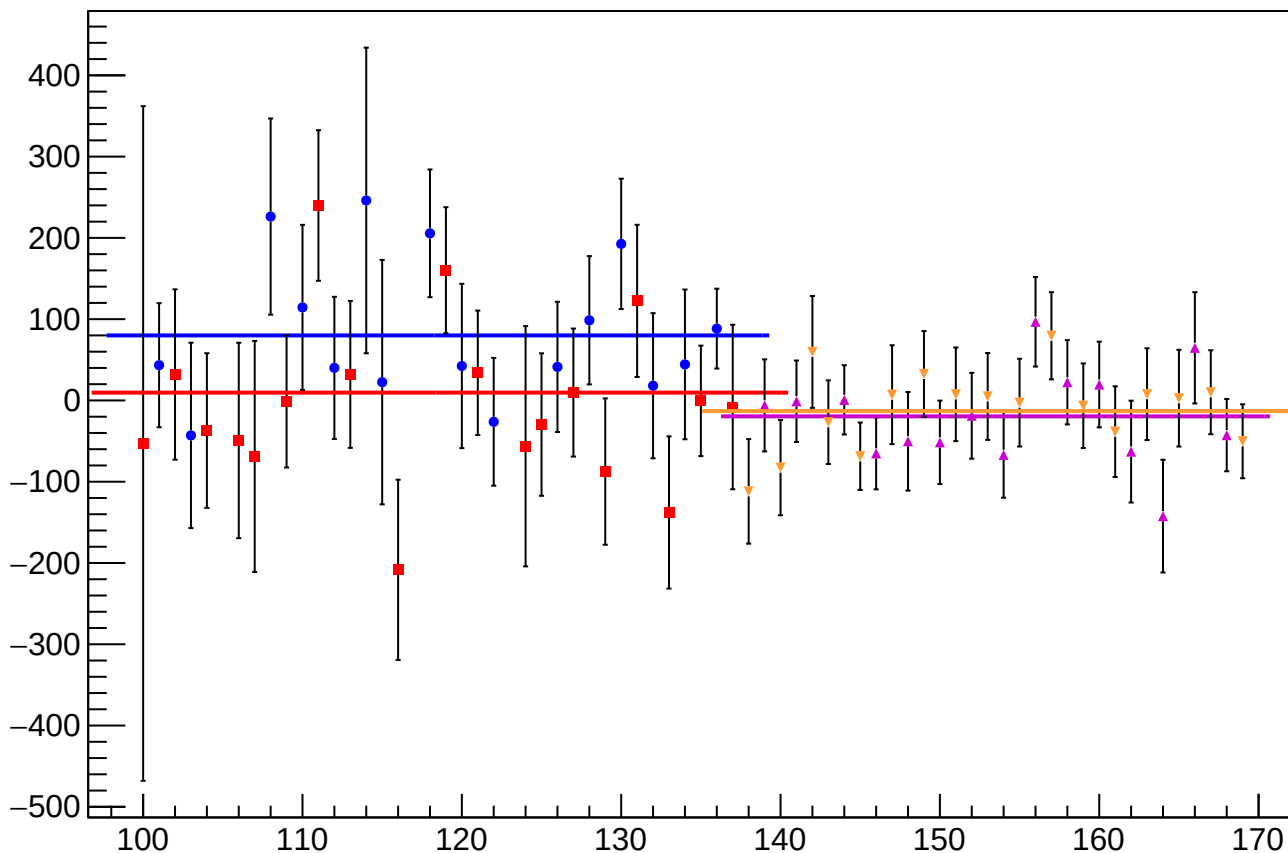
Right: 614.684 $\pm$ 0.117 χ^2 /NDF: 1580324.3/34

In: 500.965 $\pm$ 0.083 χ^2 /NDF: 2181798.8/30

Out: 493.138 $\pm$ 0.079 χ^2 /NDF: 2393153.3/35

All: 496.874 $\pm$ 0.057 χ^2 /NDF: 4579644.2/66

eigen_cor_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 79.998 ± 21.474 χ^2/NDF : 11.6/15

Left Out: -13.080 ± 13.109 χ^2/NDF : 12.2/16

Right Out: 9.619 ± 21.631 χ^2/NDF : 20.4/18

Left In: -19.582 ± 13.630 χ^2/NDF : 14.0/14

Left: -16.204 ± 9.448 χ^2/NDF : 26.3/31

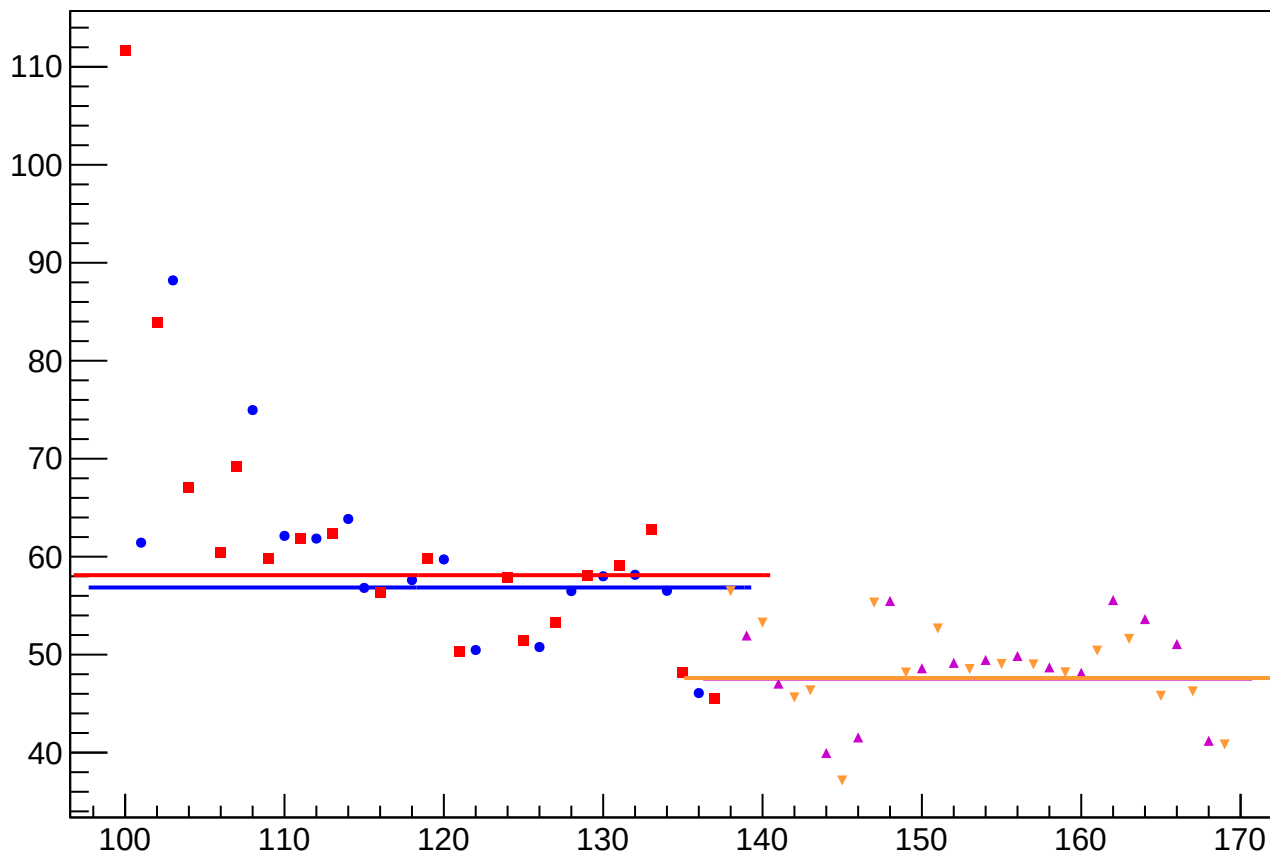
Right: 45.064 ± 15.240 χ^2/NDF : 37.3/34

In: 9.013 ± 11.508 χ^2/NDF : 40.9/30

Out: -6.983 ± 11.211 χ^2/NDF : 33.4/35

All: 0.806 ± 8.030 χ^2/NDF : 75.3/66

eigen_cor_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 56.854 $\pm$ 0.015 χ^2 /NDF: 341605.0/15

Left Out: 47.610 $\pm$ 0.009 χ^2 /NDF:300623.8/16

Right Out: 58.111 $\pm$ 0.015 χ^2 /NDF: 312938.5/18

Left In: 47.553 $\pm$ 0.010 χ^2 /NDF:250897.6/14

Left: 47.582 $\pm$ 0.007 χ^2 /NDF: 551539.9/31

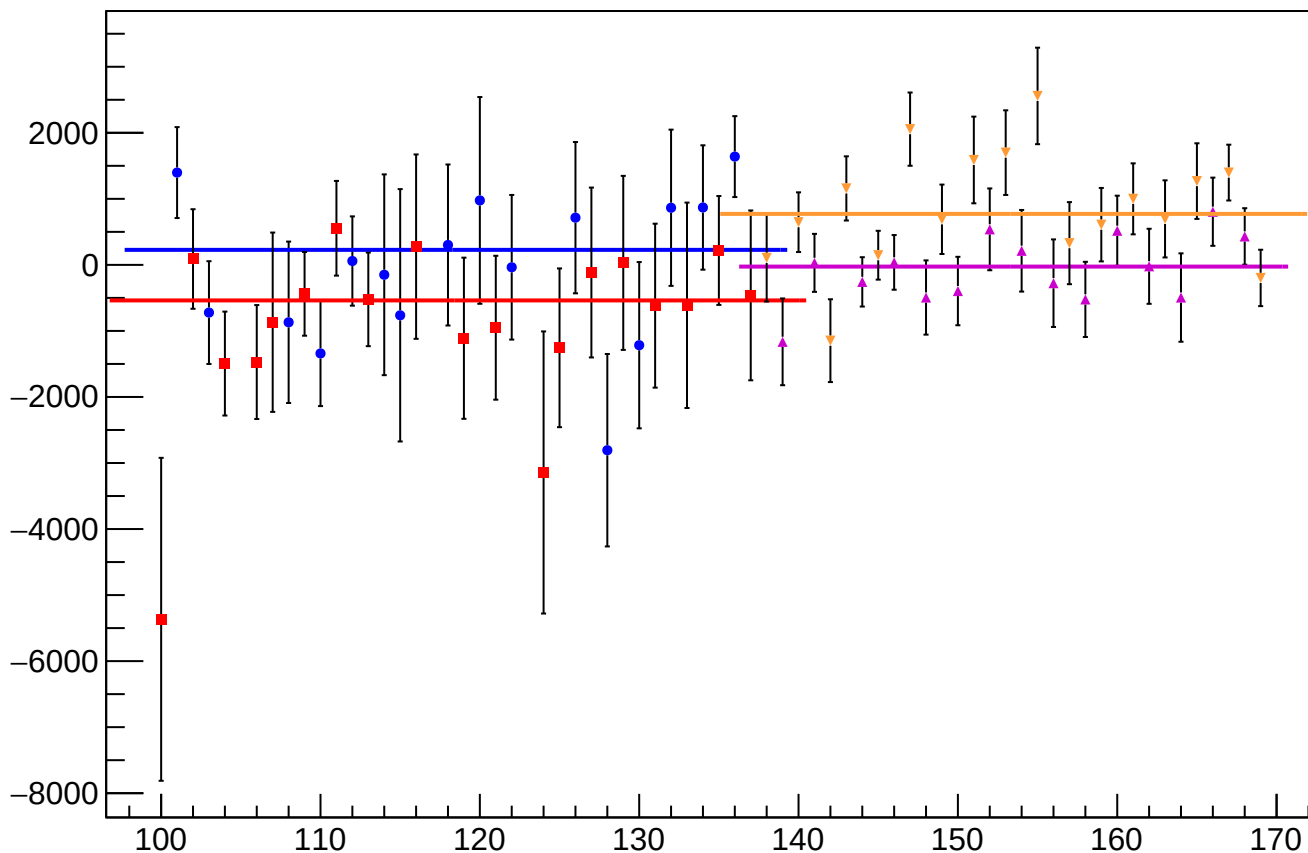
Right: 57.478 $\pm$ 0.011 χ^2 /NDF: 657942.0/34

In: 50.224 $\pm$ 0.008 χ^2 /NDF:859994.2/30

Out: 50.430 $\pm$ 0.008 χ^2 /NDF:958295.0/35

All: 50.330 $\pm$ 0.006 χ^2 /NDF: 1818620.8/66

asym_sam_15_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 227.547 $\pm$ 241.227 χ^2 /NDF: 21.6/15

Left Out: 772.085 $\pm$ 127.895 χ^2 /NDF:37.9/16

Right Out: -538.117 $\pm$ 228.754 χ^2 /NDF: 13.3/18

Left In: -25.828 $\pm$ 133.528 χ^2 /NDF:11.8/14

Left: 390.313 $\pm$ 92.362 χ^2 /NDF: 68.3/31

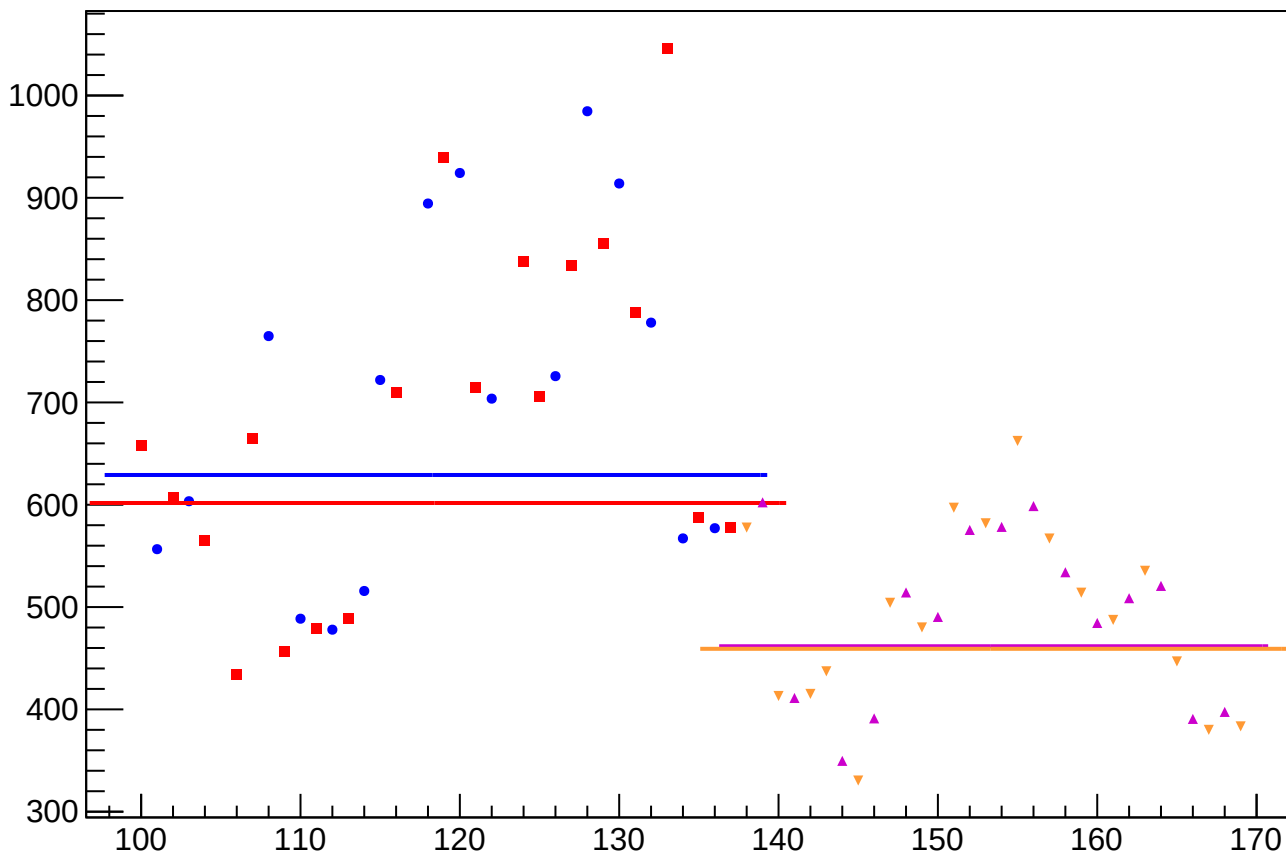
Right: -175.590 $\pm$ 165.988 χ^2 /NDF: 40.3/34

In: 33.598 $\pm$ 116.824 χ^2 /NDF:34.3/30

Out: 460.068 $\pm$ 111.632 χ^2 /NDF:76.2/35

All: 256.520 $\pm$ 80.709 χ^2 /NDF: 117.4/66

asym_sam_15_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 629.101 $\pm$ 0.171 χ^2 /NDF: 692716.0/15

Left Out: 459.197 $\pm$ 0.090 χ^2 /NDF: 927634.7/16

Right Out: 601.721 $\pm$ 0.162 χ^2 /NDF: 874042.1/18

Left In: 461.704 $\pm$ 0.094 χ^2 /NDF: 751864.8/14

Left: 460.396 $\pm$ 0.065 χ^2 /NDF: 1679867.1/31

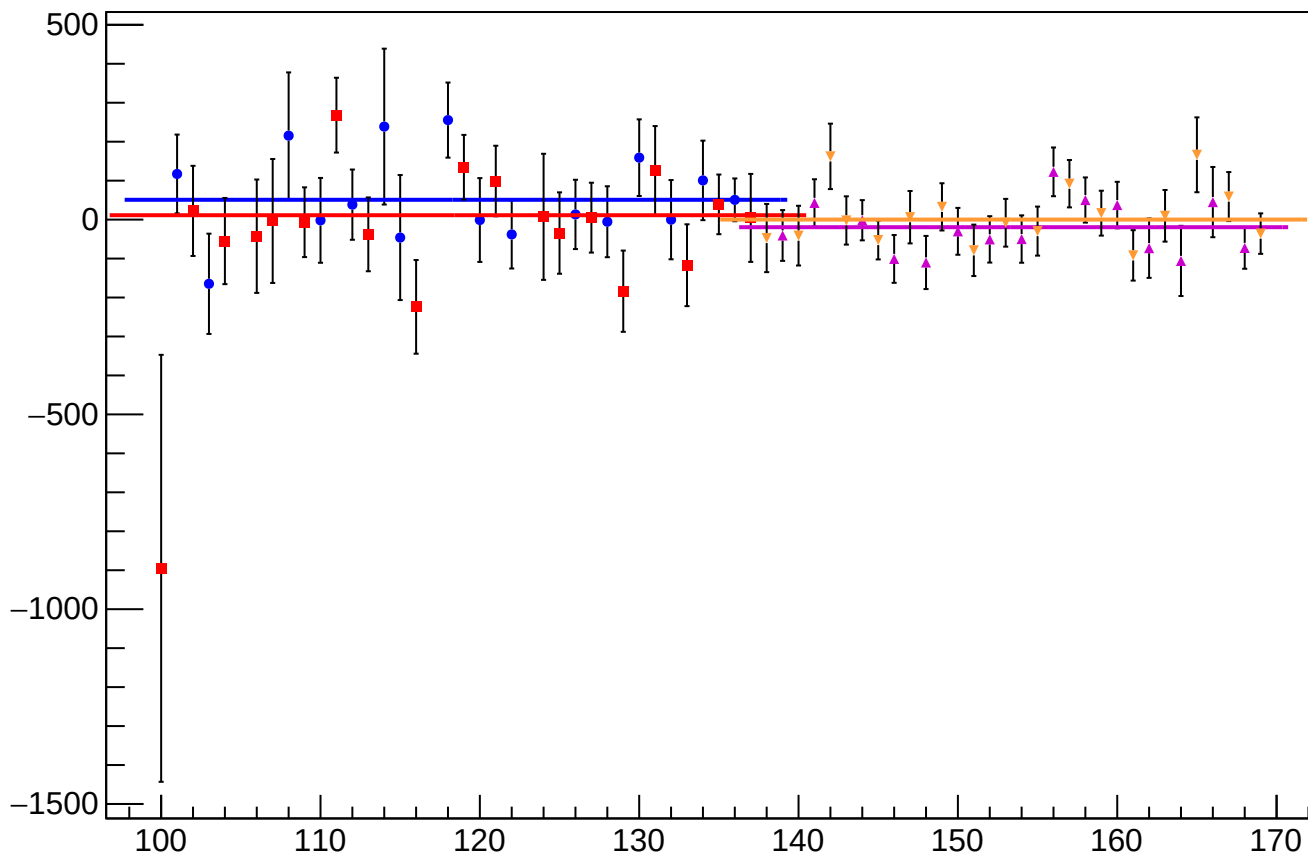
Right: 614.684 $\pm$ 0.117 χ^2 /NDF: 1580324.3/34

In: 500.965 $\pm$ 0.083 χ^2 /NDF: 2181798.8/30

Out: 493.138 $\pm$ 0.079 χ^2 /NDF: 2393153.3/35

All: 496.874 $\pm$ 0.057 χ^2 /NDF: 4579644.2/66

dit_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 50.861 ± 24.492 $\chi^2/\text{NDF}: 13.8/15$

Left Out: 0.120 ± 15.583 $\chi^2/\text{NDF}: 16.2/16$

Right Out: 11.261 ± 24.324 $\chi^2/\text{NDF}: 24.0/18$

Left In: -19.482 ± 16.234 $\chi^2/\text{NDF}: 15.8/14$

Left: -9.280 ± 11.242 $\chi^2/\text{NDF}: 32.7/31$

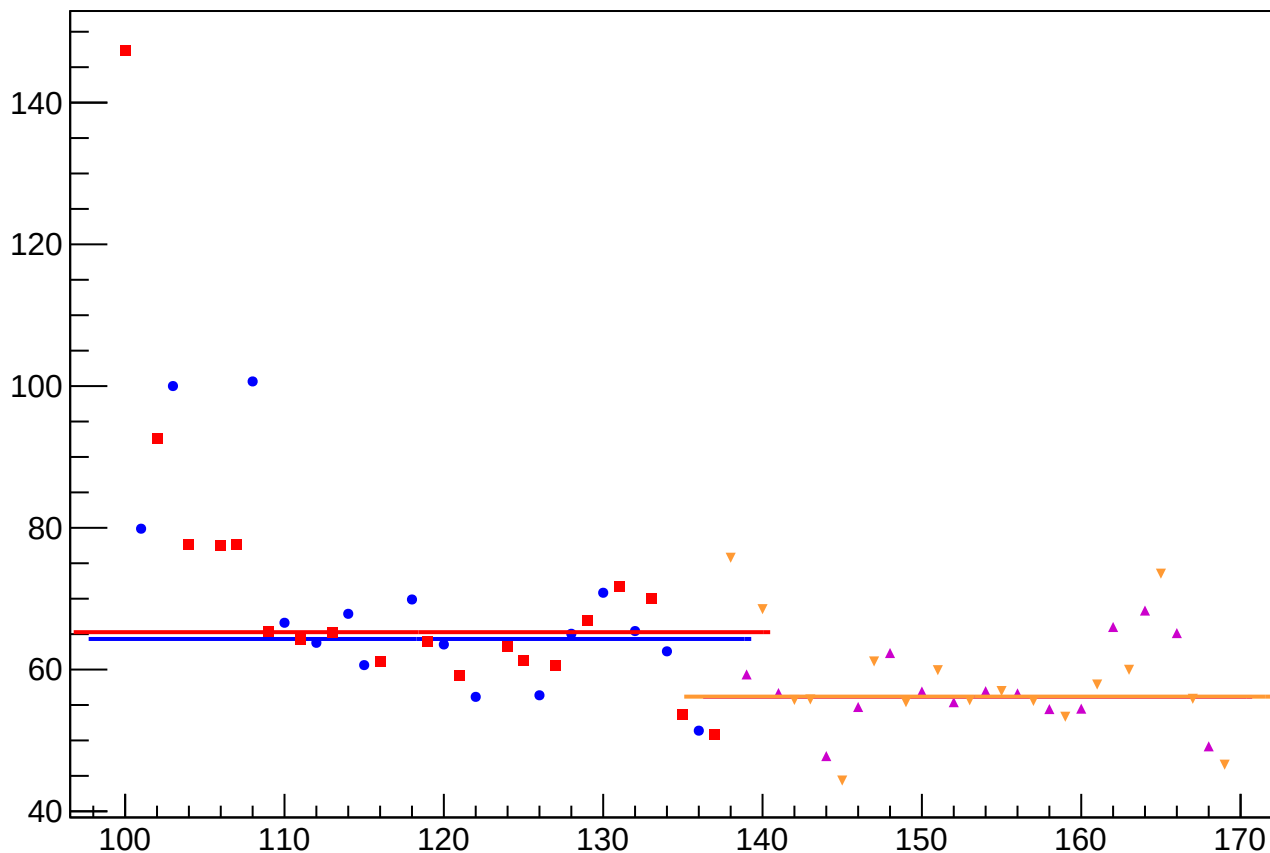
Right: 30.925 ± 17.259 $\chi^2/\text{NDF}: 39.1/34$

In: 1.989 ± 13.531 $\chi^2/\text{NDF}: 35.3/30$

Out: 3.362 ± 13.122 $\chi^2/\text{NDF}: 40.3/35$

All: 2.696 ± 9.420 $\chi^2/\text{NDF}: 75.7/66$

dit_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.317+/-0.017 χ^2/NDF : 464952.4/15

Left Out: 56.180+/-0.011 χ^2/NDF : 429849.4/16

Right Out: 65.277+/-0.017 χ^2/NDF : 319136.6/18

Left In: 56.130+/-0.011 χ^2/NDF : 203225.6/14

Left: 56.156+/-0.008 χ^2/NDF : 633084.8/31

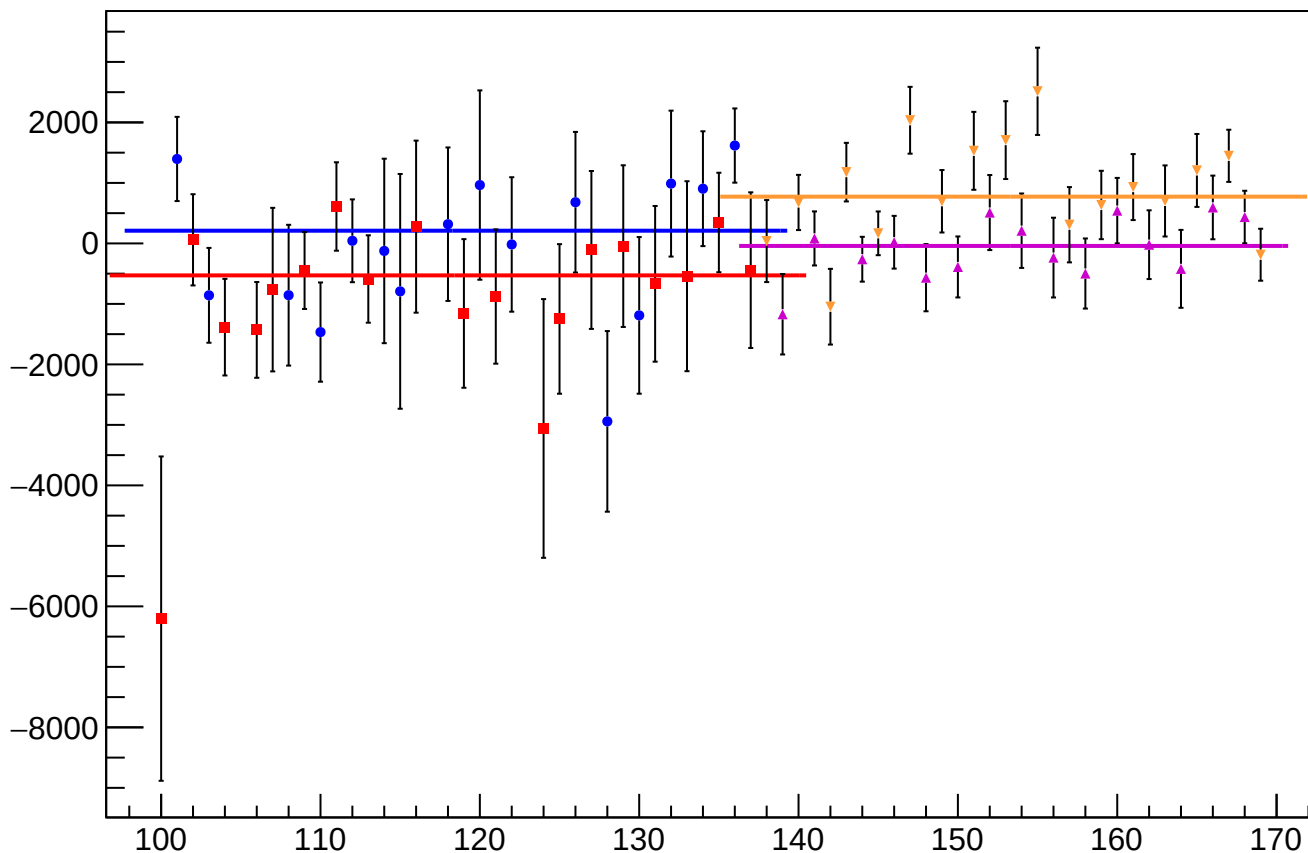
Right: 64.800+/-0.012 χ^2/NDF : 785637.7/34

In: 58.629+/-0.010 χ^2/NDF : 823422.8/30

Out: 58.827+/-0.009 χ^2/NDF : 947328.0/35

All: 58.731+/-0.007 χ^2/NDF : 1770972.2/66

asym_sam_15_48_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 210.018 $\pm$ 243.798 χ^2 /NDF: 22.4/15

Left Out: 772.643 $\pm$ 128.292 χ^2 /NDF:36.4/16

Right Out: -528.675 $\pm$ 229.679 χ^2 /NDF: 13.8/18

Left In: -41.802 $\pm$ 134.408 χ^2 /NDF:10.5/14

Left: 384.371 $\pm$ 92.803 χ^2 /NDF: 66.2/31

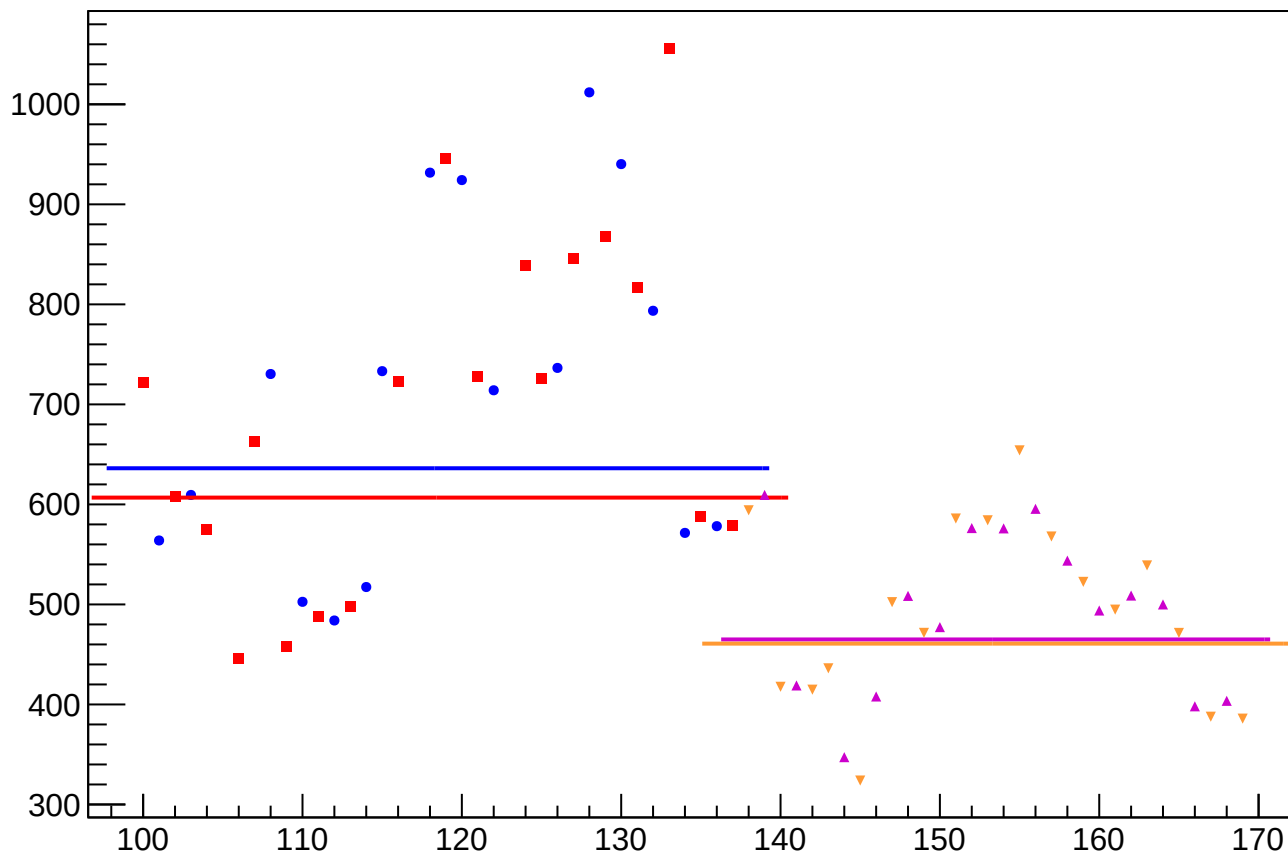
Right: -181.337 $\pm$ 167.176 χ^2 /NDF: 41.1/34

In: 16.896 $\pm$ 117.705 χ^2 /NDF:33.8/30

Out: 463.180 $\pm$ 112.004 χ^2 /NDF:74.7/35

All: 251.108 $\pm$ 81.139 χ^2 /NDF: 116.1/66

asym_sam_15_48_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 636.144 $\pm$ 0.172 χ^2 /NDF: 705237.7/15

Left Out: 460.810 $\pm$ 0.091 χ^2 /NDF: 948097.6/16

Right Out: 606.803 $\pm$ 0.162 χ^2 /NDF: 893878.7/18

Left In: 464.979 $\pm$ 0.095 χ^2 /NDF: 705999.2/14

Left: 462.798 $\pm$ 0.066 χ^2 /NDF: 1655103.6/31

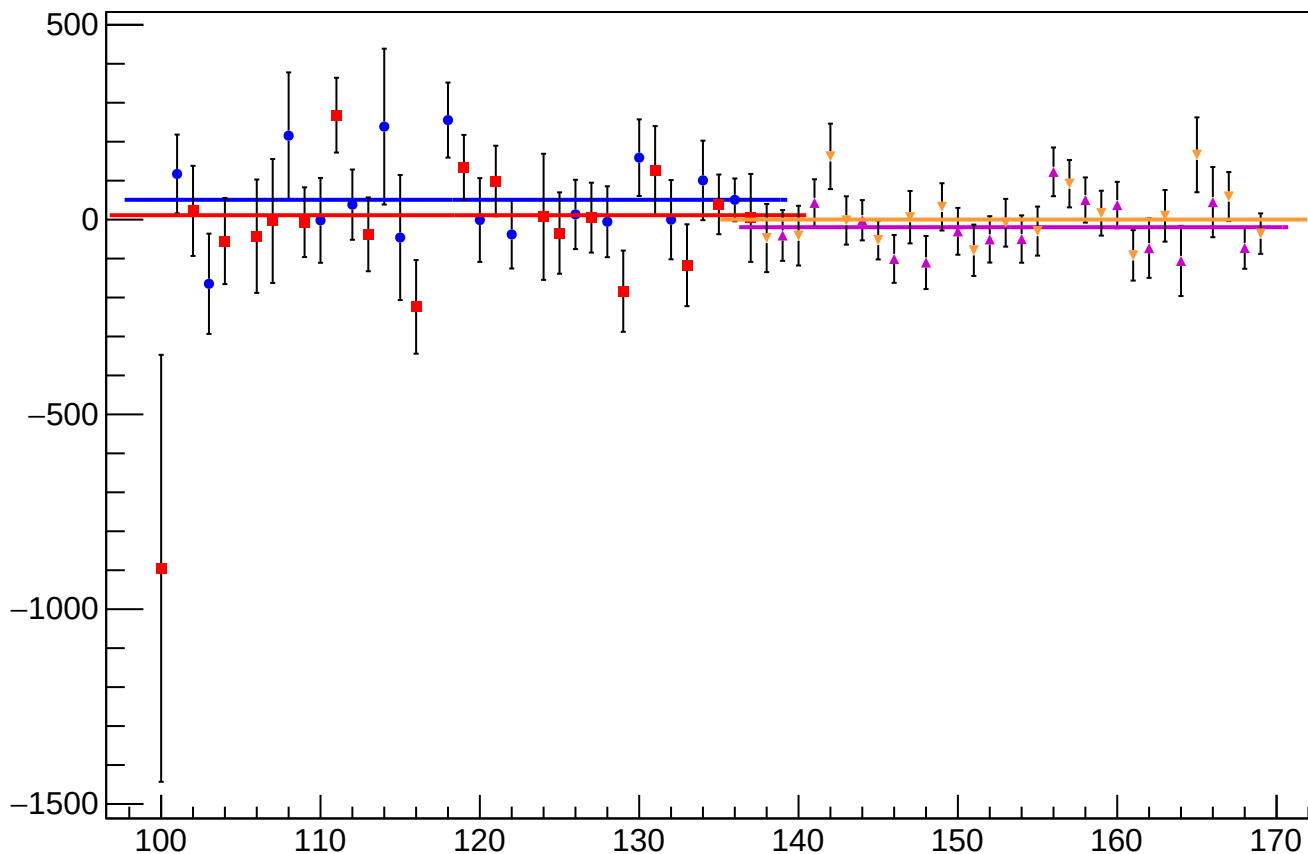
Right: 620.599 $\pm$ 0.118 χ^2 /NDF: 1614464.0/34

In: 504.877 $\pm$ 0.083 χ^2 /NDF: 2167275.9/30

Out: 495.528 $\pm$ 0.079 χ^2 /NDF: 2457884.6/35

All: 499.971 $\pm$ 0.057 χ^2 /NDF: 4631781.3/66

eigen_dit_asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: 50.859 $\pm$ 24.492 χ^2 /NDF: 13.8/15

Left Out: 0.119 $\pm$ 15.583 χ^2 /NDF:16.2/16

Right Out: 11.261 $\pm$ 24.324 χ^2 /NDF: 24.0/18

Left In: -19.482 $\pm$ 16.234 χ^2 /NDF:15.8/14

Left: -9.281 $\pm$ 11.242 χ^2 /NDF: 32.7/31

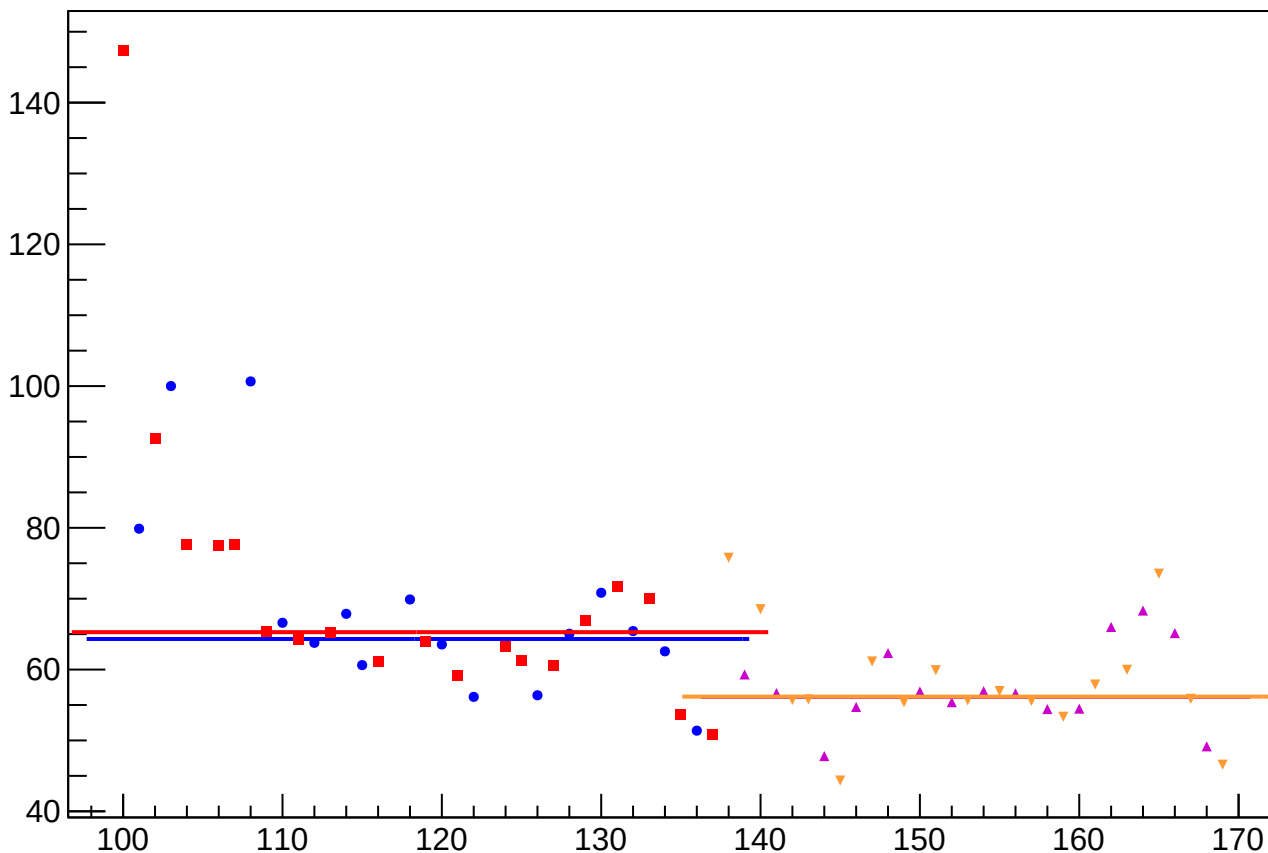
Right: 30.924 $\pm$ 17.259 χ^2 /NDF: 39.1/34

In: 1.988 $\pm$ 13.531 χ^2 /NDF:35.3/30

Out: 3.361 $\pm$ 13.122 χ^2 /NDF:40.3/35

All: 2.696 $\pm$ 9.420 χ^2 /NDF: 75.7/66

eigen_dit_asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 64.317+/-0.017 χ^2/NDF : 464950.5/15

Left Out: 56.180+/-0.011 χ^2/NDF : 429839.2/16

Right Out: 65.277+/-0.017 χ^2/NDF : 319140.2/18

Left In: 56.130+/-0.011 χ^2/NDF : 203223.8/14

Left: 56.156+/-0.008 χ^2/NDF : 633072.8/31

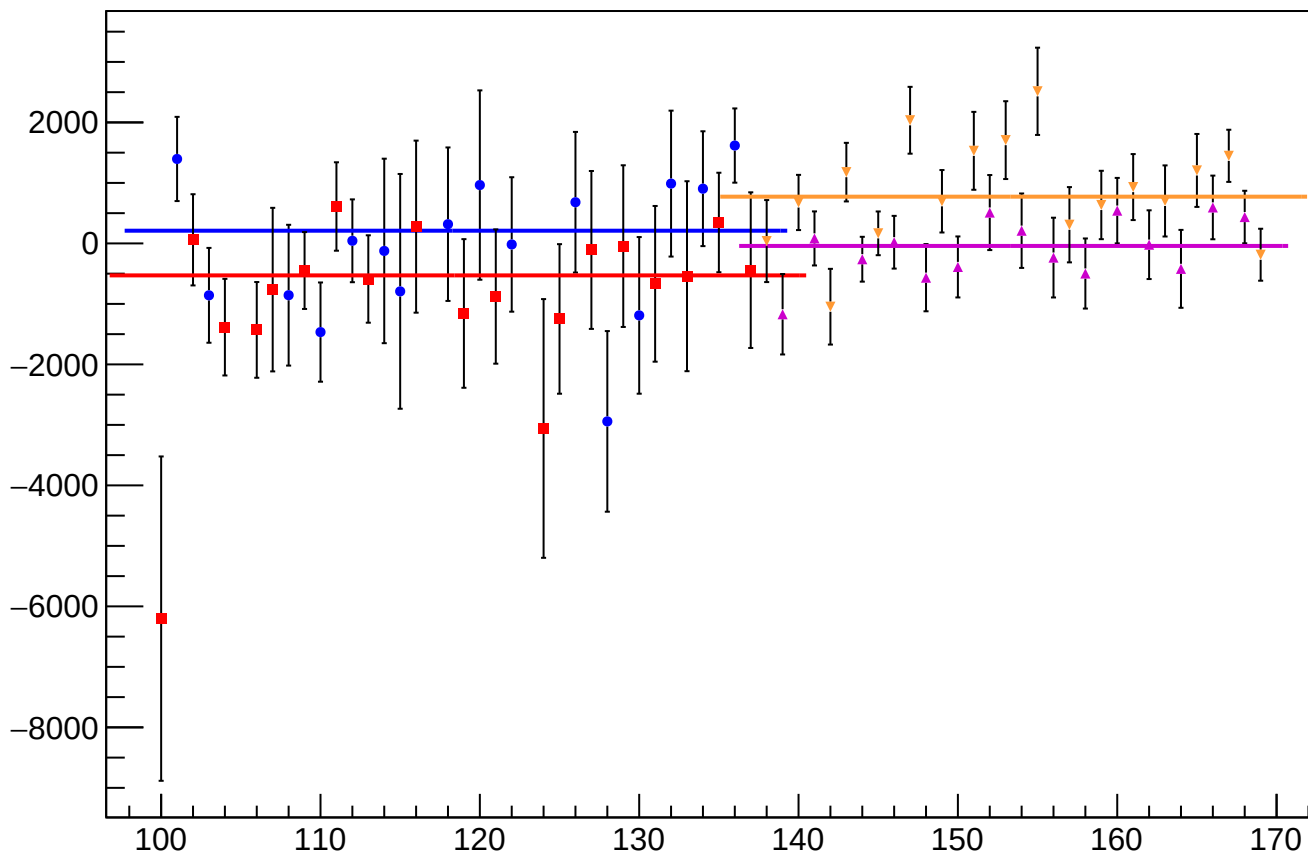
Right: 64.800+/-0.012 χ^2/NDF : 785639.3/34

In: 58.629+/-0.010 χ^2/NDF : 823412.9/30

Out: 58.828+/-0.009 χ^2/NDF : 947309.8/35

All: 58.731+/-0.007 χ^2/NDF : 1770944.1/66

asym_sam_15_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 210.017 $\pm$ 243.798 χ^2 /NDF: 22.4/15

Left Out: 772.641 $\pm$ 128.292 χ^2 /NDF:36.4/16

Right Out: -528.674 $\pm$ 229.678 χ^2 /NDF: 13.8/18

Left In: -41.801 $\pm$ 134.408 χ^2 /NDF:10.5/14

Left: 384.370 $\pm$ 92.803 χ^2 /NDF: 66.2/31

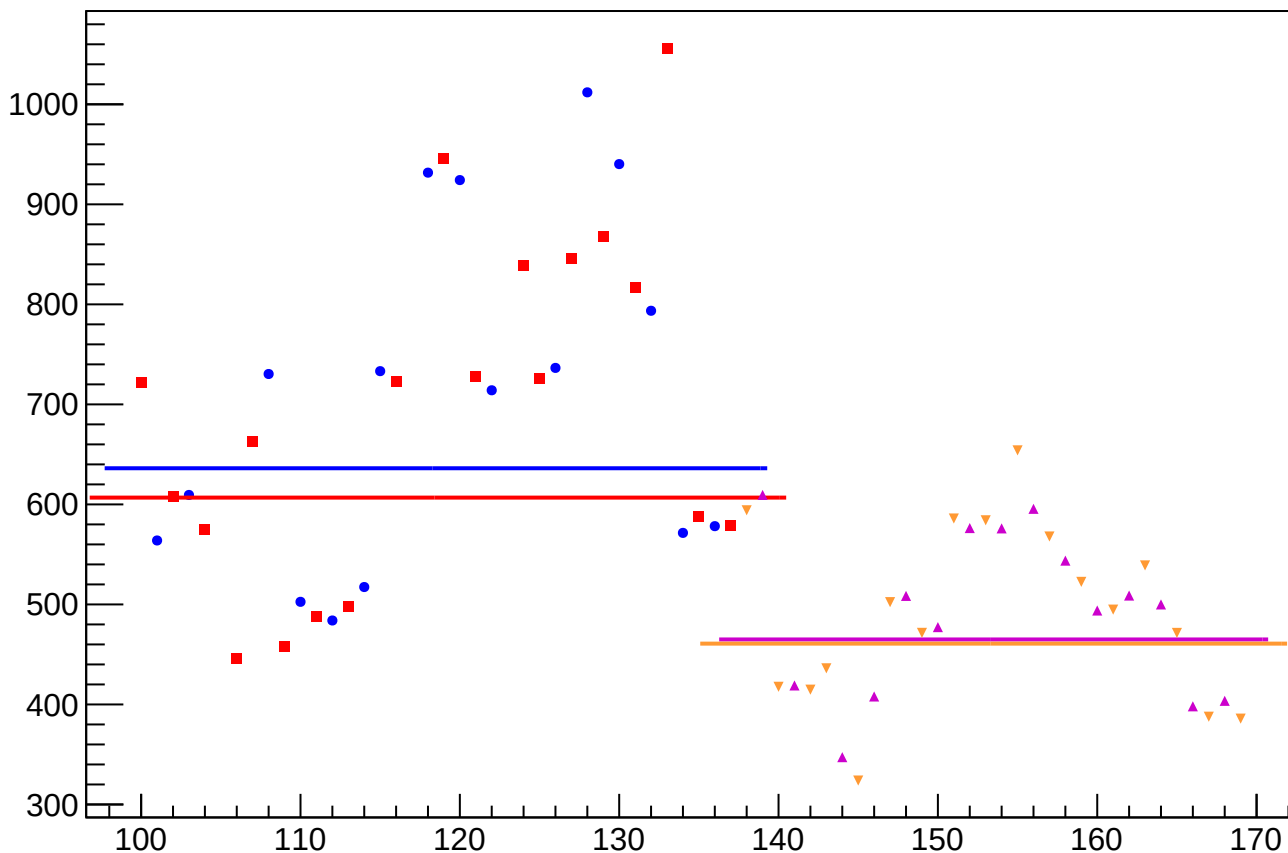
Right: -181.337 $\pm$ 167.176 χ^2 /NDF: 41.1/34

In: 16.896 $\pm$ 117.705 χ^2 /NDF:33.8/30

Out: 463.179 $\pm$ 112.004 χ^2 /NDF:74.7/35

All: 251.108 $\pm$ 81.139 χ^2 /NDF: 116.1/66

asym_sam_15_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 636.144 ± 0.172 $\chi^2/\text{NDF}: 705241.1/15$

Left Out: 460.809 ± 0.091 $\chi^2/\text{NDF}: 948109.7/16$

Right Out: 606.802 ± 0.162 $\chi^2/\text{NDF}: 893880.8/18$

Left In: 464.978 ± 0.095 $\chi^2/\text{NDF}: 706003.9/14$

Left: 462.796 ± 0.066 $\chi^2/\text{NDF}: 1655120.4/31$

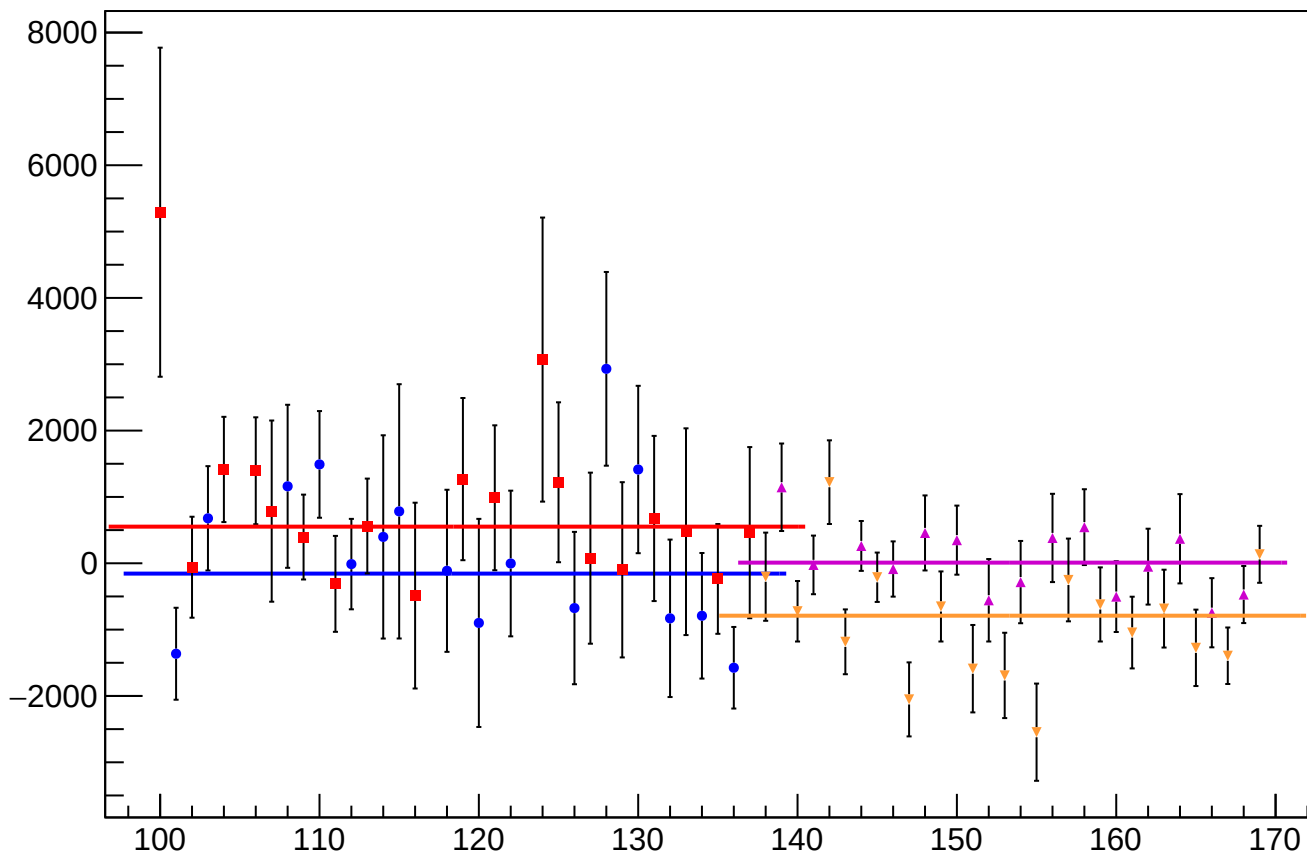
Right: 620.599 ± 0.118 $\chi^2/\text{NDF}: 1614469.5/34$

In: 504.876 ± 0.083 $\chi^2/\text{NDF}: 2167287.7/30$

Out: 495.527 ± 0.079 $\chi^2/\text{NDF}: 2457904.1/35$

All: 499.970 ± 0.057 $\chi^2/\text{NDF}: 4631812.9/66$

asym_sam_15_48_dd_mean vs Slug, Sign Corrected



Right In: -155.651+/-242.595 χ^2/NDF : 22.5/15

Left Out: -790.062+/-128.633 χ^2/NDF : 36.9/16

Right Out: 552.176+/-228.890 χ^2/NDF : 12.1/18

Left In: 9.570+/-134.292 χ^2/NDF : 11.3/14

Left: -407.448+/-92.894 χ^2/NDF : 66.7/31

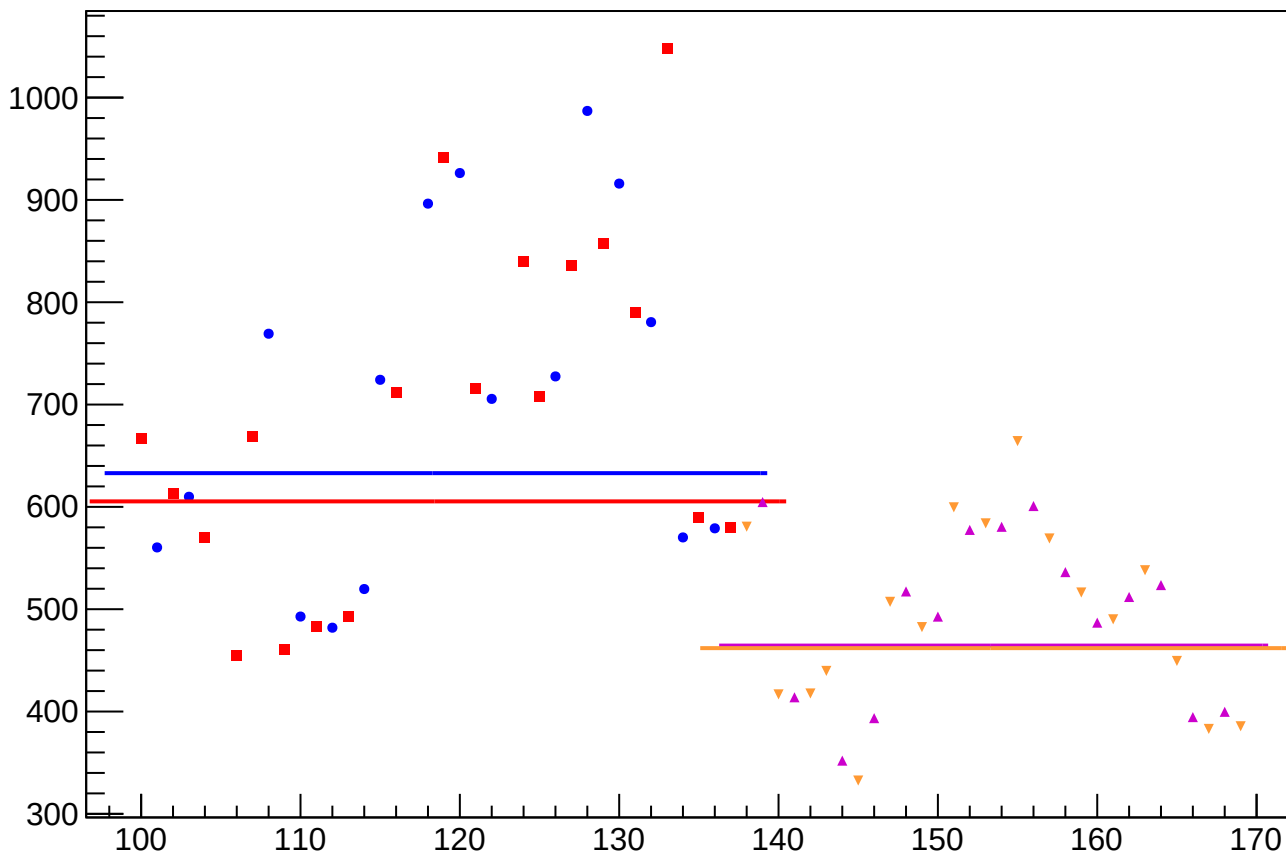
Right: 218.820+/-166.484 χ^2/NDF : 39.1/34

In: -29.184+/-117.492 χ^2/NDF : 34.2/30

Out: -467.894+/-112.138 χ^2/NDF : 75.1/35

All: -258.761+/-81.120 χ^2/NDF : 116.6/66

asym_sam_15_48_dd_rms vs Slug, Sign Corrected



Right In: 632.966 ± 0.172 χ^2/NDF : 681138.4/15

Left Out: 461.955 ± 0.091 χ^2/NDF : 917140.8/16

Right Out: 605.373 ± 0.162 χ^2/NDF : 853994.0/18

Left In: 464.444 ± 0.095 χ^2/NDF : 742732.9/14

Left: 463.146 ± 0.066 χ^2/NDF : 1660232.1/31

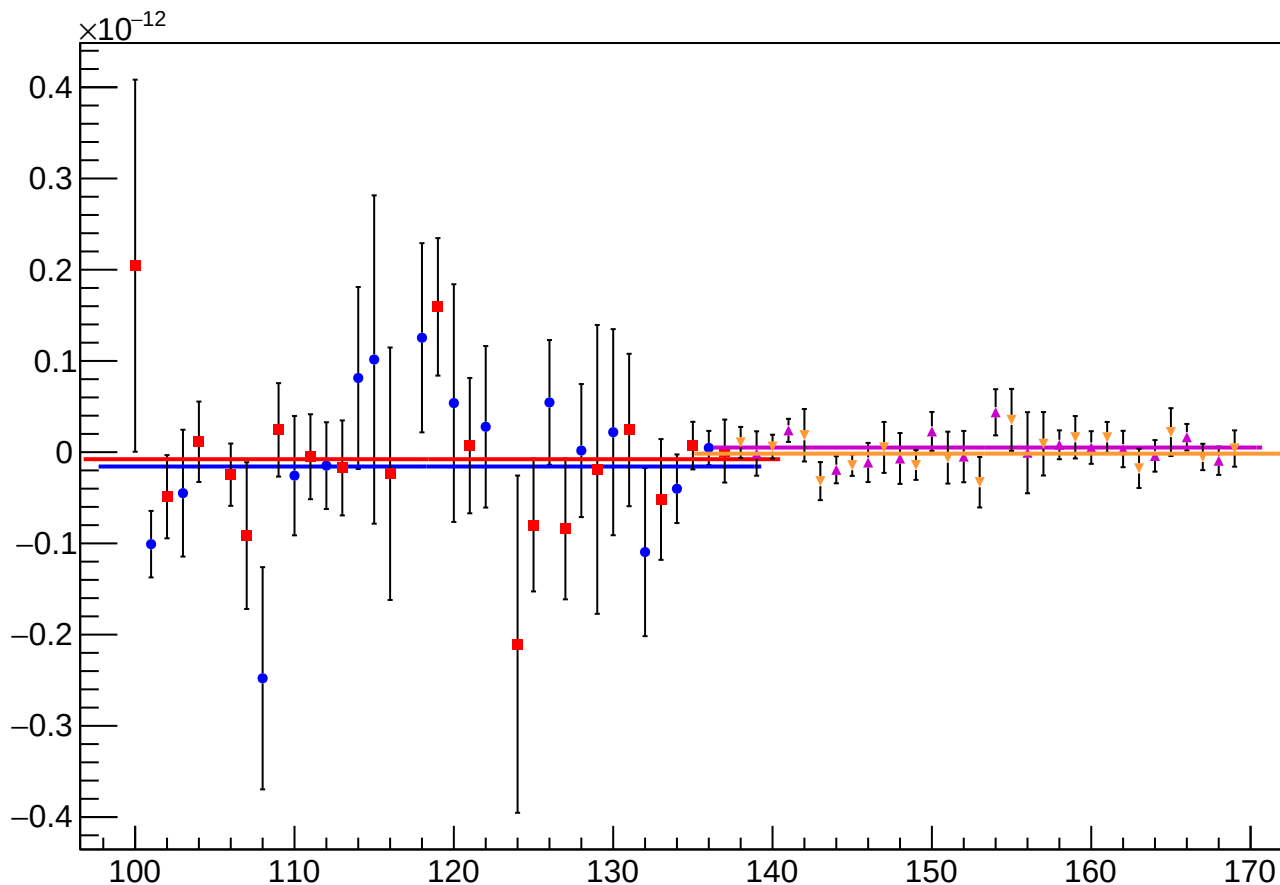
Right: 618.368 ± 0.118 χ^2/NDF : 1548821.0/34

In: 503.972 ± 0.083 χ^2/NDF : 2162609.8/30

Out: 496.379 ± 0.079 χ^2/NDF : 2367872.1/35

All: 499.999 ± 0.057 χ^2/NDF : 4534853.6/66

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 16.9/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 11.1/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 13.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 10.7/14

Left: 0.000 ± 0.000 χ^2/NDF : 22.8/31

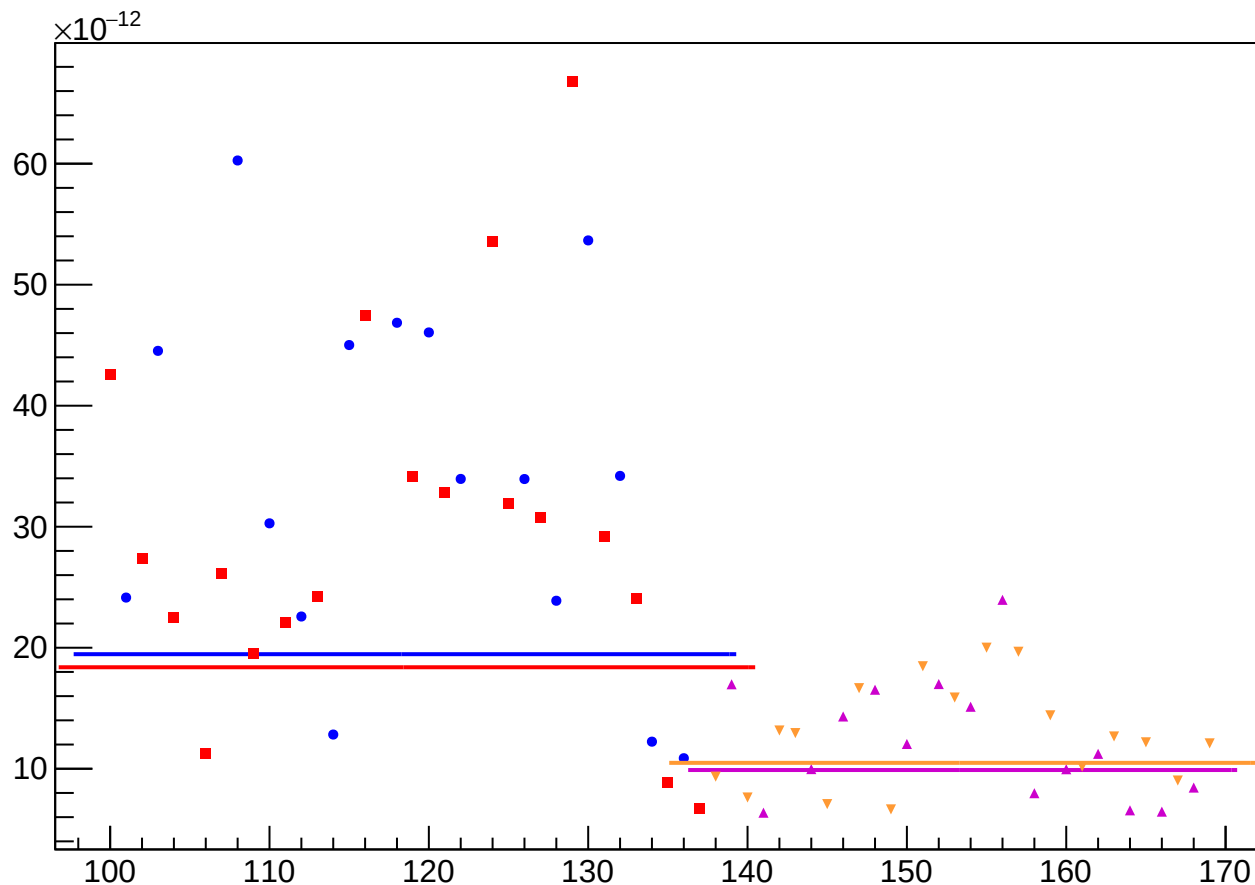
Right: -0.000 ± 0.000 χ^2/NDF : 30.1/34

In: 0.000 ± 0.000 χ^2/NDF : 30.0/30

Out: -0.000 ± 0.000 χ^2/NDF : 24.3/35

All: -0.000 ± 0.000 χ^2/NDF : 54.9/66

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1735565.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1178305.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1444777.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 1198829.1/14

Left: 0.000+/-0.000 χ^2/NDF : 2392771.2/31

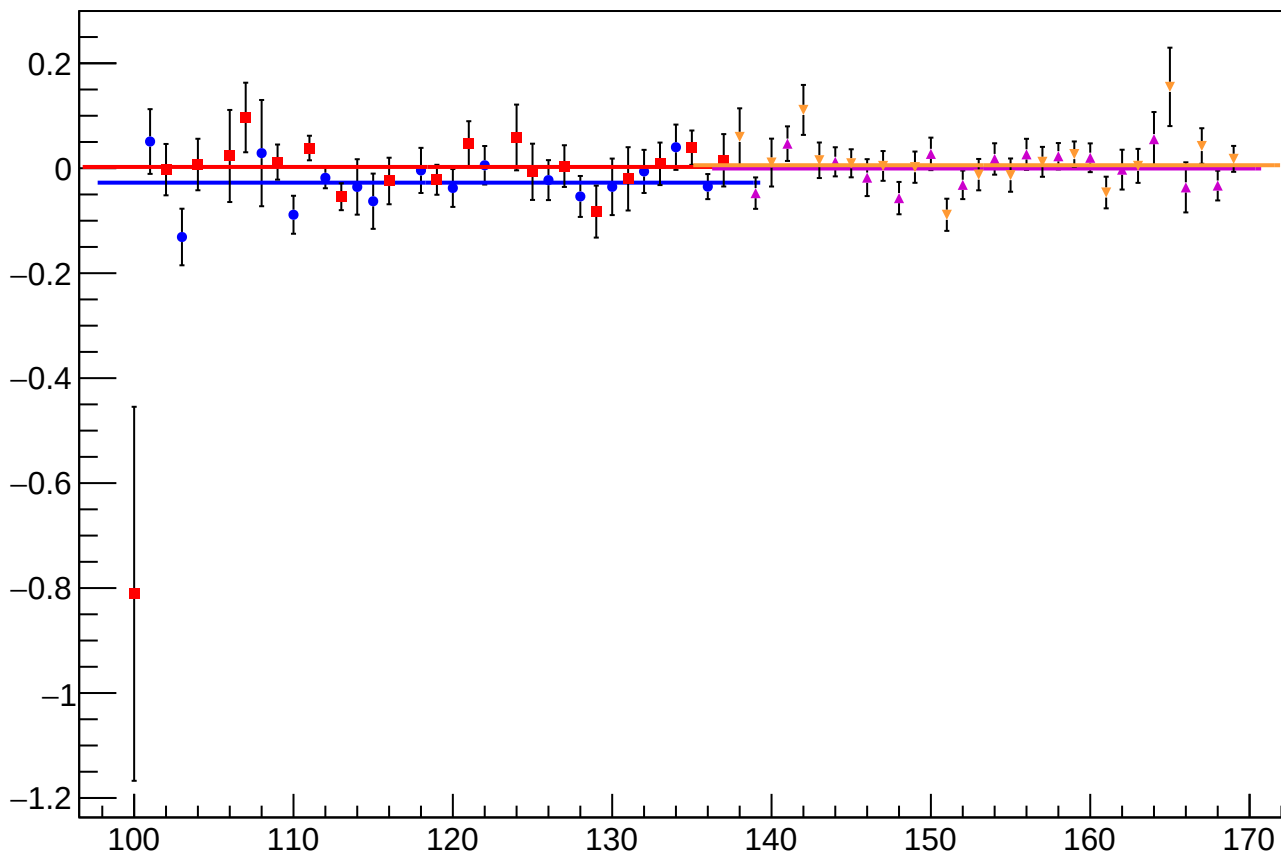
Right: 0.000+/-0.000 χ^2/NDF : 3187950.4/34

In: 0.000+/-0.000 χ^2/NDF : 3940914.5/30

Out: 0.000+/-0.000 χ^2/NDF : 3358103.4/35

All: 0.000+/-0.000 χ^2/NDF : 7307061.0/66

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.027 $\pm$ 0.009 χ^2 /NDF: 13.7/15

Left Out: 0.006 $\pm$ 0.008 χ^2 /NDF:25.4/16

Right Out: 0.002 $\pm$ 0.009 χ^2 /NDF: 22.1/18

Left In: -0.001 $\pm$ 0.008 χ^2 /NDF:16.1/14

Left: 0.003 $\pm$ 0.006 χ^2 /NDF: 41.8/31

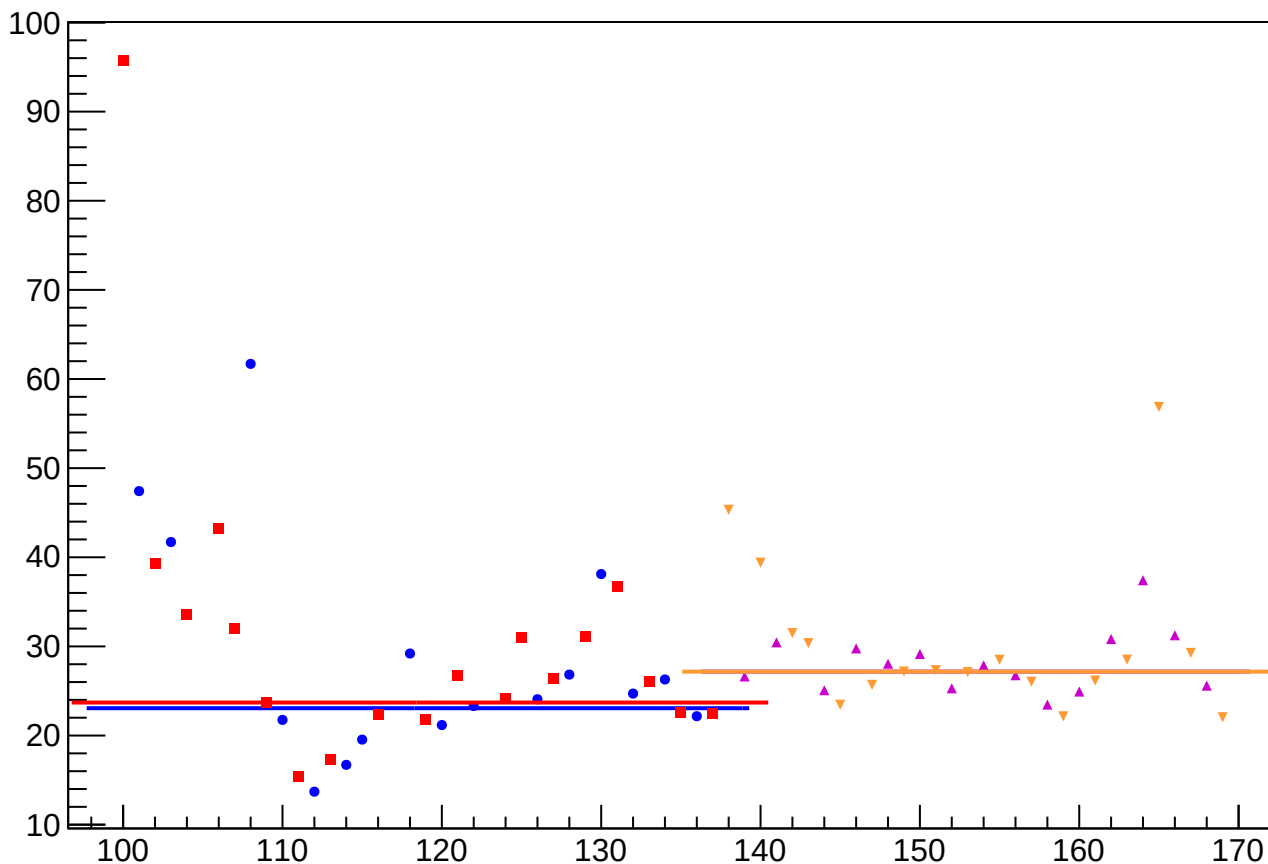
Right: -0.012 $\pm$ 0.007 χ^2 /NDF: 40.9/34

In: -0.012 $\pm$ 0.006 χ^2 /NDF:34.6/30

Out: 0.004 $\pm$ 0.006 χ^2 /NDF:47.6/35

All: -0.004 $\pm$ 0.004 χ^2 /NDF: 85.8/66

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.066 ± 0.007 χ^2/NDF : 1564478.6/15

Left Out: 27.169 ± 0.005 χ^2/NDF : 952888.8/16

Right Out: 23.702 ± 0.007 χ^2/NDF : 1088494.2/18

Left In: 27.173 ± 0.006 χ^2/NDF : 238053.5/14

Left: 27.171 ± 0.004 χ^2/NDF : 1190942.6/31

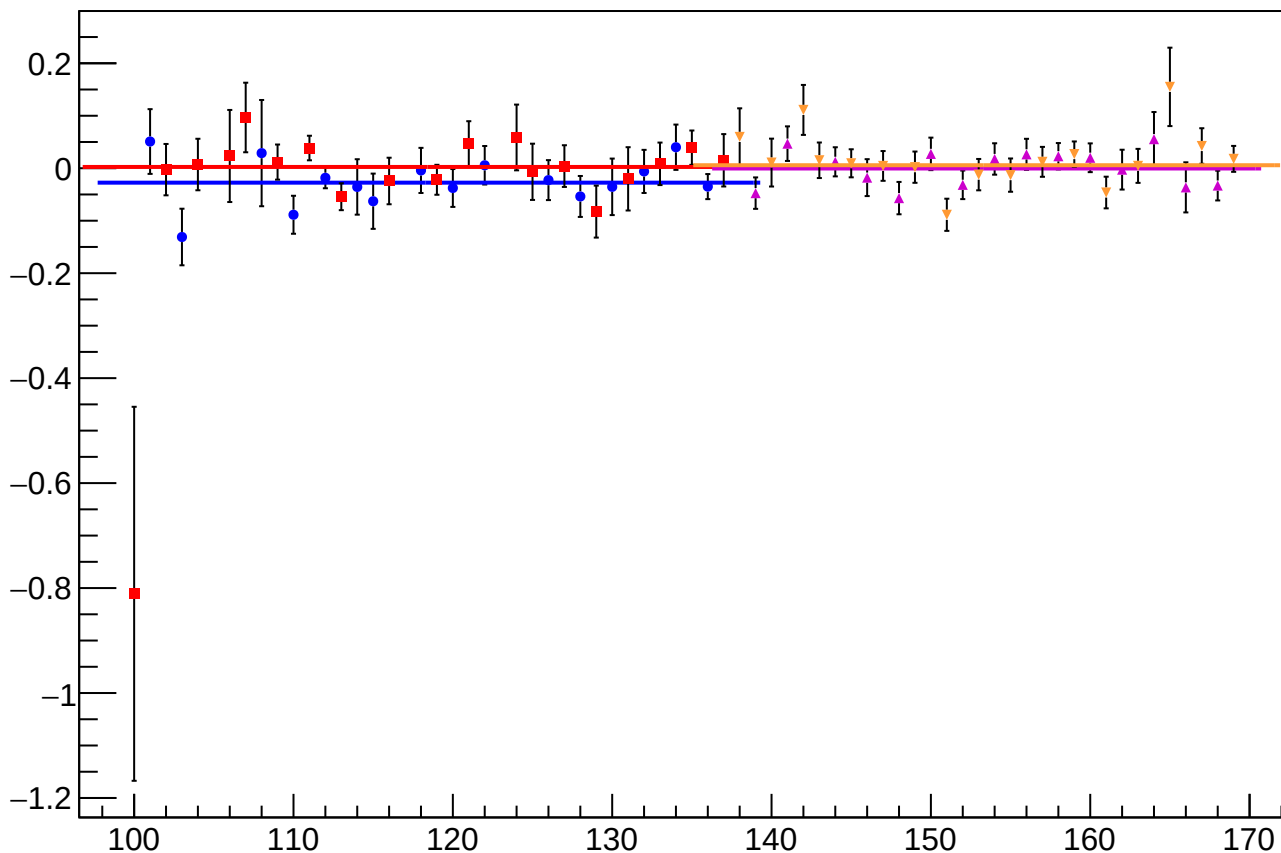
Right: 23.387 ± 0.005 χ^2/NDF : 2657617.1/34

In: 25.439 ± 0.004 χ^2/NDF : 2023524.9/30

Out: 25.753 ± 0.004 χ^2/NDF : 2206095.7/35

All: 25.601 ± 0.003 χ^2/NDF : 4232336.9/66

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.027 ± 0.009 χ^2/NDF : 13.7/15

Left Out: 0.006 ± 0.008 χ^2/NDF : 25.4/16

Right Out: 0.002 ± 0.009 χ^2/NDF : 22.1/18

Left In: -0.001 ± 0.008 χ^2/NDF : 16.1/14

Left: 0.003 ± 0.006 χ^2/NDF : 41.8/31

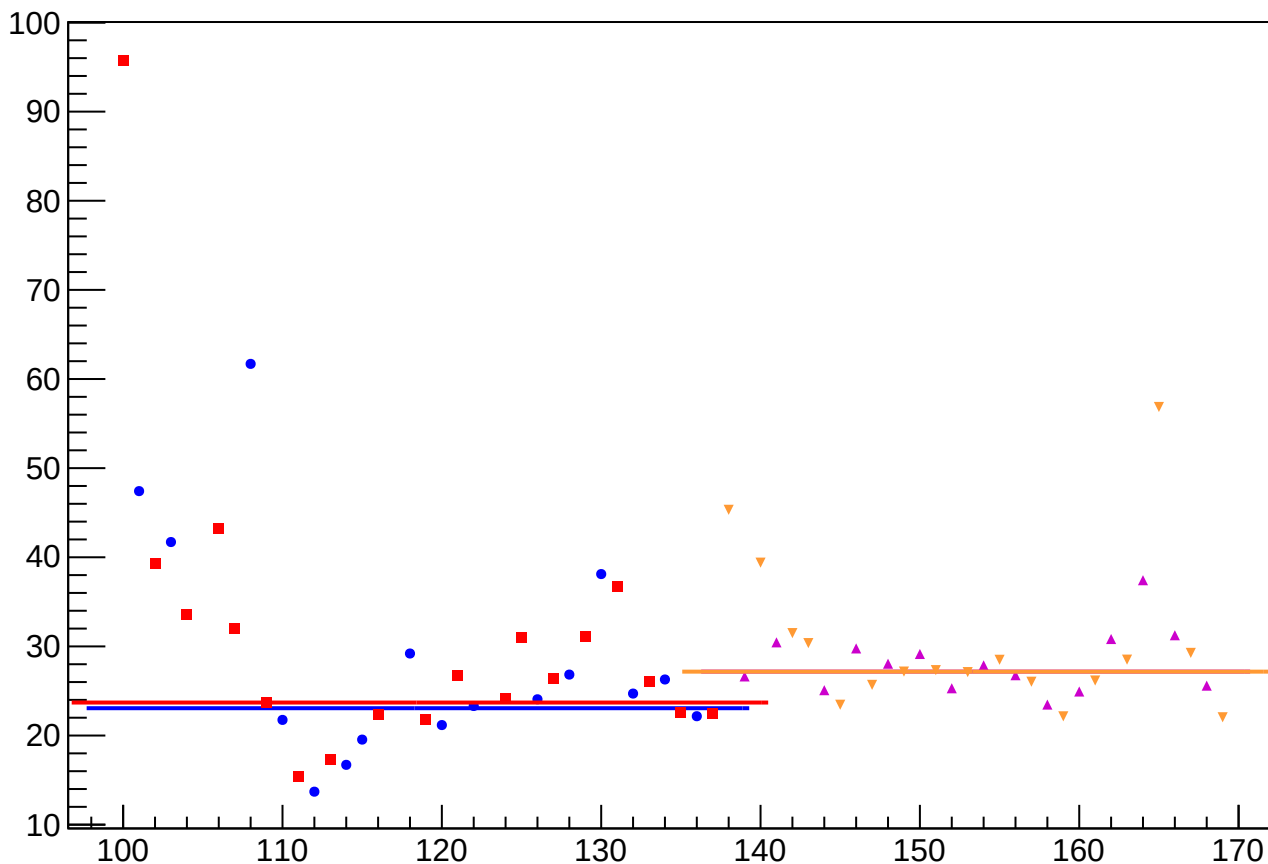
Right: -0.012 ± 0.007 χ^2/NDF : 40.9/34

In: -0.012 ± 0.006 χ^2/NDF : 34.6/30

Out: 0.004 ± 0.006 χ^2/NDF : 47.6/35

All: -0.004 ± 0.004 χ^2/NDF : 85.8/66

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.066 $\pm$ 0.007 χ^2 /NDF: 1564478.6/15

Left Out: 27.169 $\pm$ 0.005 χ^2 /NDF: 952888.8/16

Right Out: 23.702 $\pm$ 0.007 χ^2 /NDF: 1088494.2/18

Left In: 27.173 $\pm$ 0.006 χ^2 /NDF: 238053.5/14

Left: 27.171 $\pm$ 0.004 χ^2 /NDF: 1190942.6/31

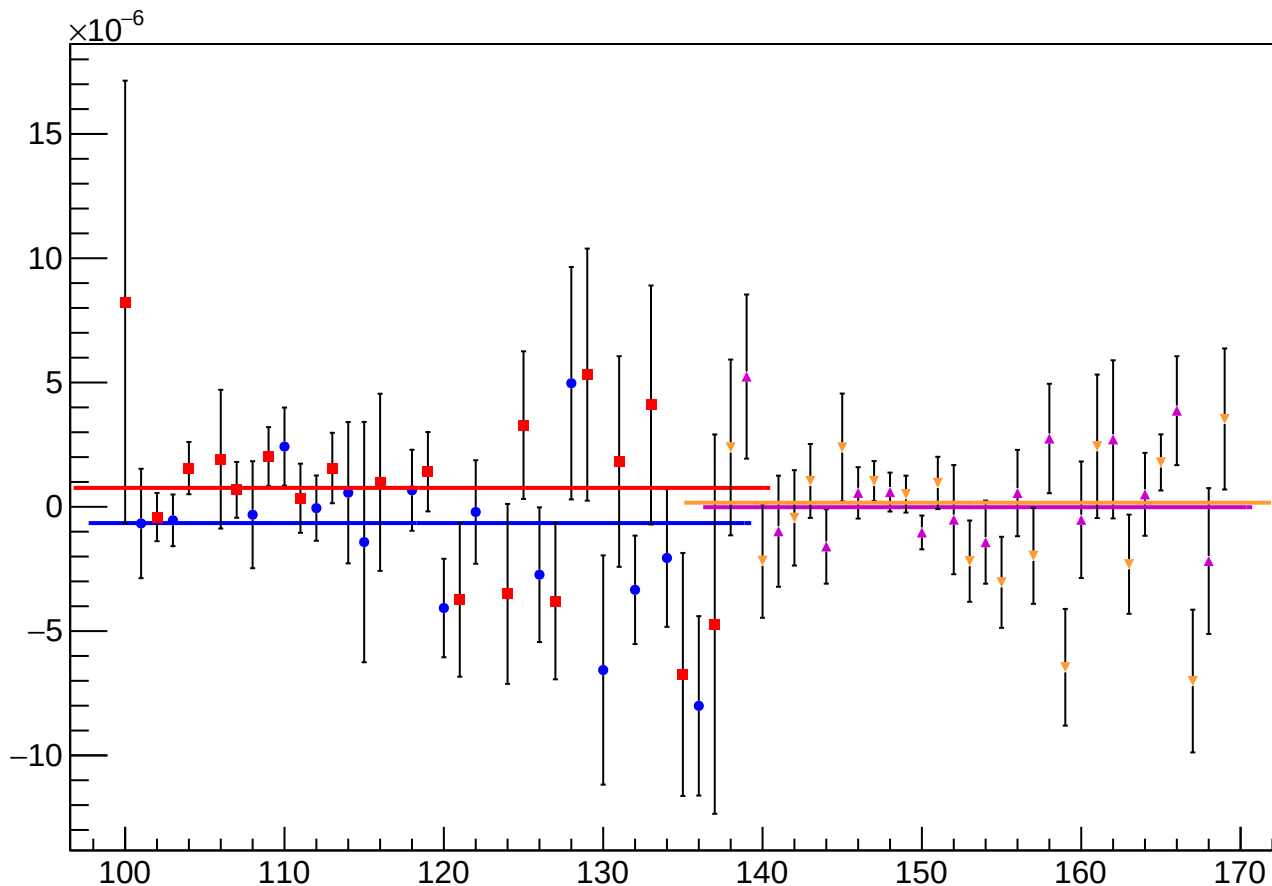
Right: 23.387 $\pm$ 0.005 χ^2 /NDF: 2657617.1/34

In: 25.439 $\pm$ 0.004 χ^2 /NDF: 2023524.9/30

Out: 25.753 $\pm$ 0.004 χ^2 /NDF: 2206095.7/35

All: 25.601 $\pm$ 0.003 χ^2 /NDF: 4232336.9/66

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 17.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 31.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 15.2/18

Left In: -0.000+/-0.000 χ^2/NDF : 14.0/14

Left: 0.000+/-0.000 χ^2/NDF : 45.2/31

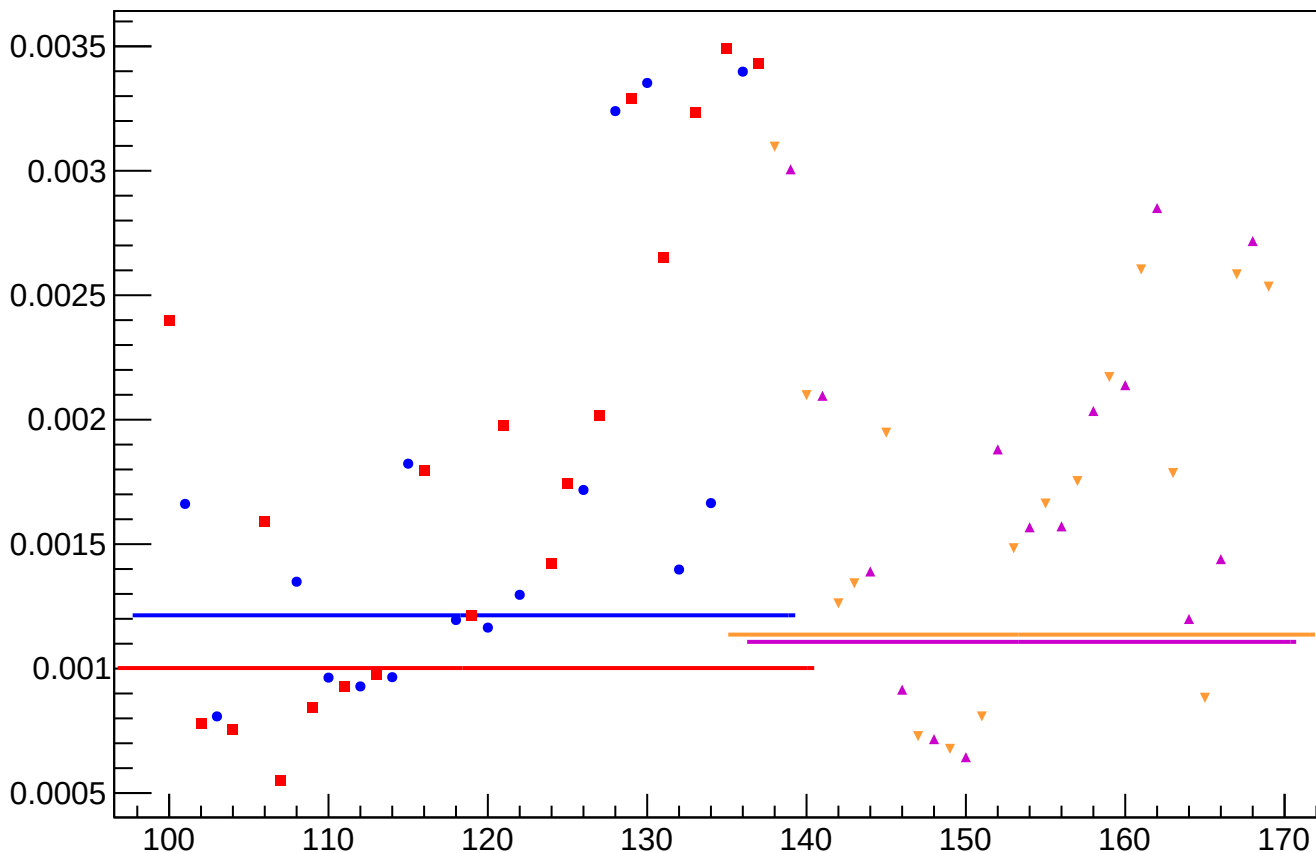
Right: 0.000+/-0.000 χ^2/NDF : 37.5/34

In: -0.000+/-0.000 χ^2/NDF : 32.6/30

Out: 0.000+/-0.000 χ^2/NDF : 47.4/35

All: 0.000+/-0.000 χ^2/NDF : 82.7/66

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 2267402.2/15

Left Out: 0.001+/-0.000 χ^2/NDF : 5444031.8/16

Right Out: 0.001+/-0.000 χ^2/NDF : 3277225.7/18

Left In: 0.001+/-0.000 χ^2/NDF : 5159813.5/14

Left: 0.001+/-0.000 χ^2/NDF : 10610455.8/31

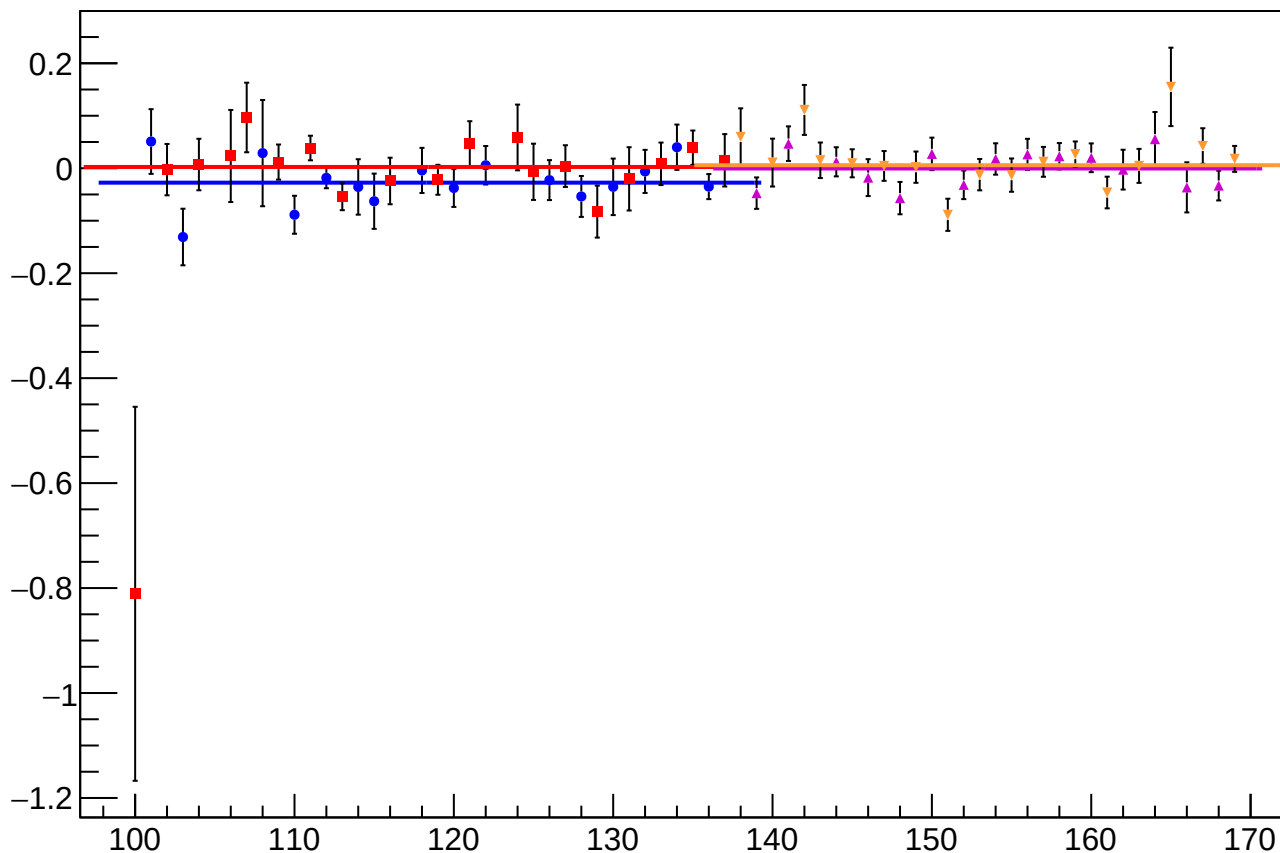
Right: 0.001+/-0.000 χ^2/NDF : 5755876.1/34

In: 0.001+/-0.000 χ^2/NDF : 7486798.3/30

Out: 0.001+/-0.000 χ^2/NDF : 8841448.4/35

All: 0.001+/-0.000 χ^2/NDF : 16379093.3/66

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.027 ± 0.009 χ^2/NDF : 13.7/15

Left Out: 0.006 ± 0.008 χ^2/NDF : 25.4/16

Right Out: 0.002 ± 0.009 χ^2/NDF : 22.1/18

Left In: -0.001 ± 0.008 χ^2/NDF : 16.1/14

Left: 0.003 ± 0.006 χ^2/NDF : 41.8/31

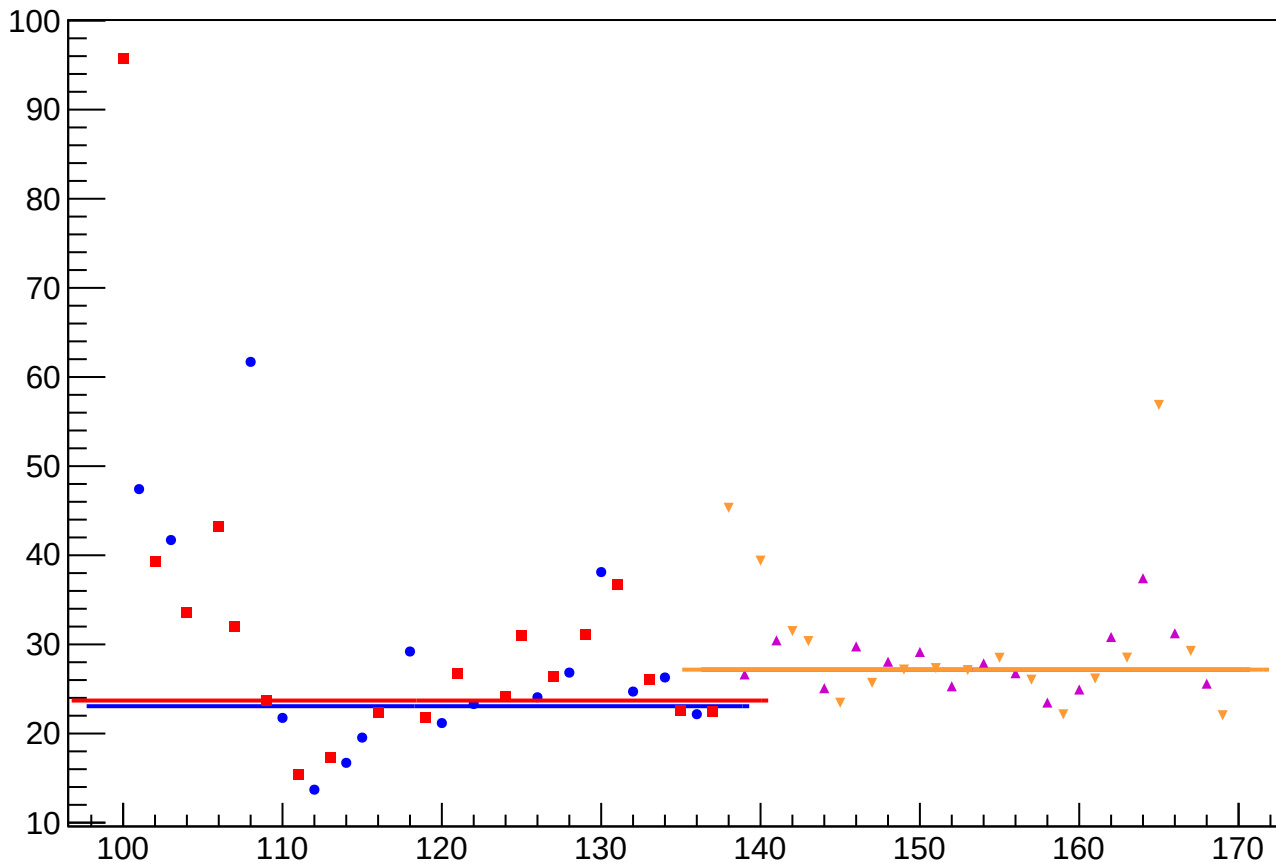
Right: -0.012 ± 0.007 χ^2/NDF : 40.9/34

In: -0.012 ± 0.006 χ^2/NDF : 34.6/30

Out: 0.004 ± 0.006 χ^2/NDF : 47.6/35

All: -0.004 ± 0.004 χ^2/NDF : 85.8/66

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.065 ± 0.007 χ^2/NDF : 1564493.0/15

Left Out: 27.169 ± 0.005 χ^2/NDF : 952849.7/16

Right Out: 23.702 ± 0.007 χ^2/NDF : 1088531.8/18

Left In: 27.174 ± 0.006 χ^2/NDF : 238048.7/14

Left: 27.171 ± 0.004 χ^2/NDF : 1190898.6/31

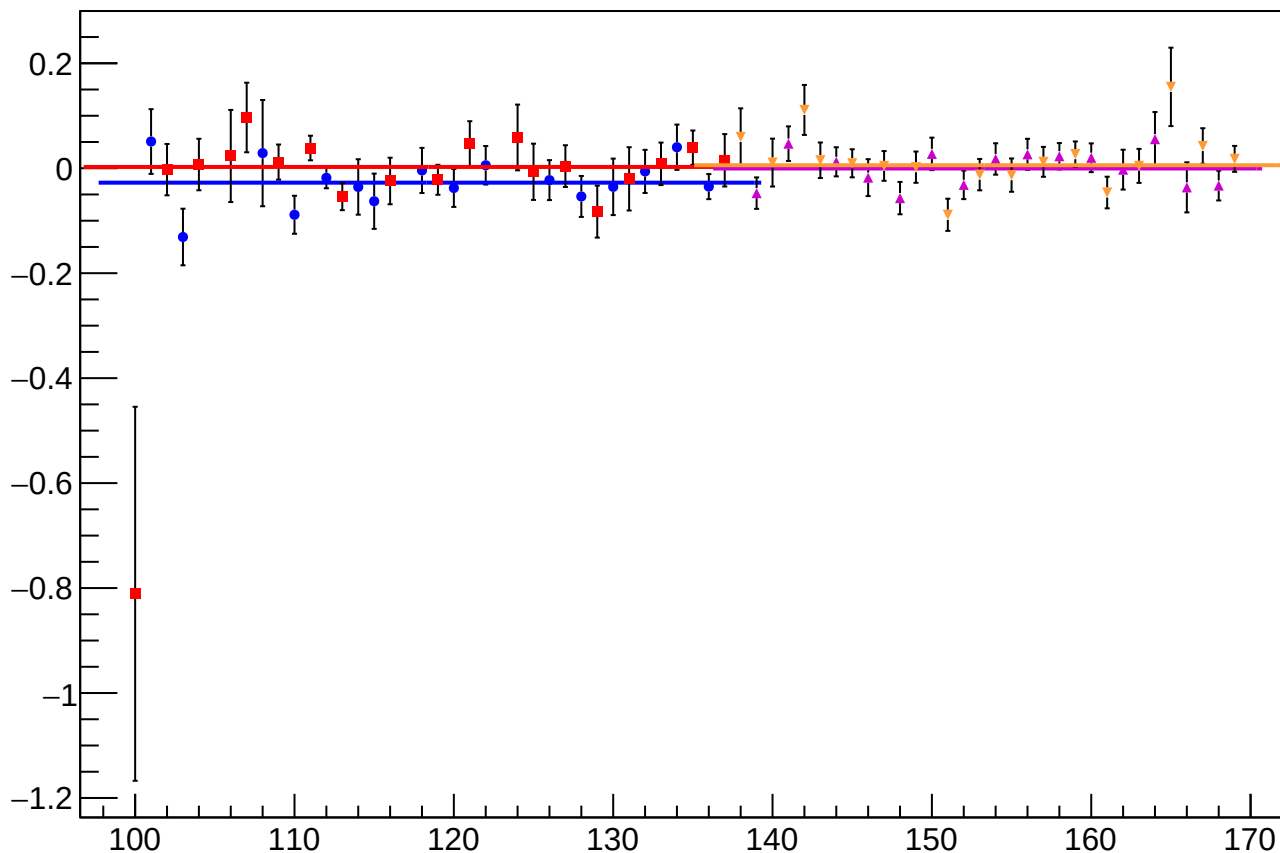
Right: 23.387 ± 0.005 χ^2/NDF : 2657668.5/34

In: 25.439 ± 0.004 χ^2/NDF : 2023582.0/30

Out: 25.753 ± 0.004 χ^2/NDF : 2206146.8/35

All: 25.601 ± 0.003 χ^2/NDF : 4232445.6/66

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.027 ± 0.009 χ^2/NDF : 13.7/15

Left Out: 0.006 ± 0.008 χ^2/NDF : 25.4/16

Right Out: 0.002 ± 0.009 χ^2/NDF : 22.1/18

Left In: -0.001 ± 0.008 χ^2/NDF : 16.1/14

Left: 0.003 ± 0.006 χ^2/NDF : 41.8/31

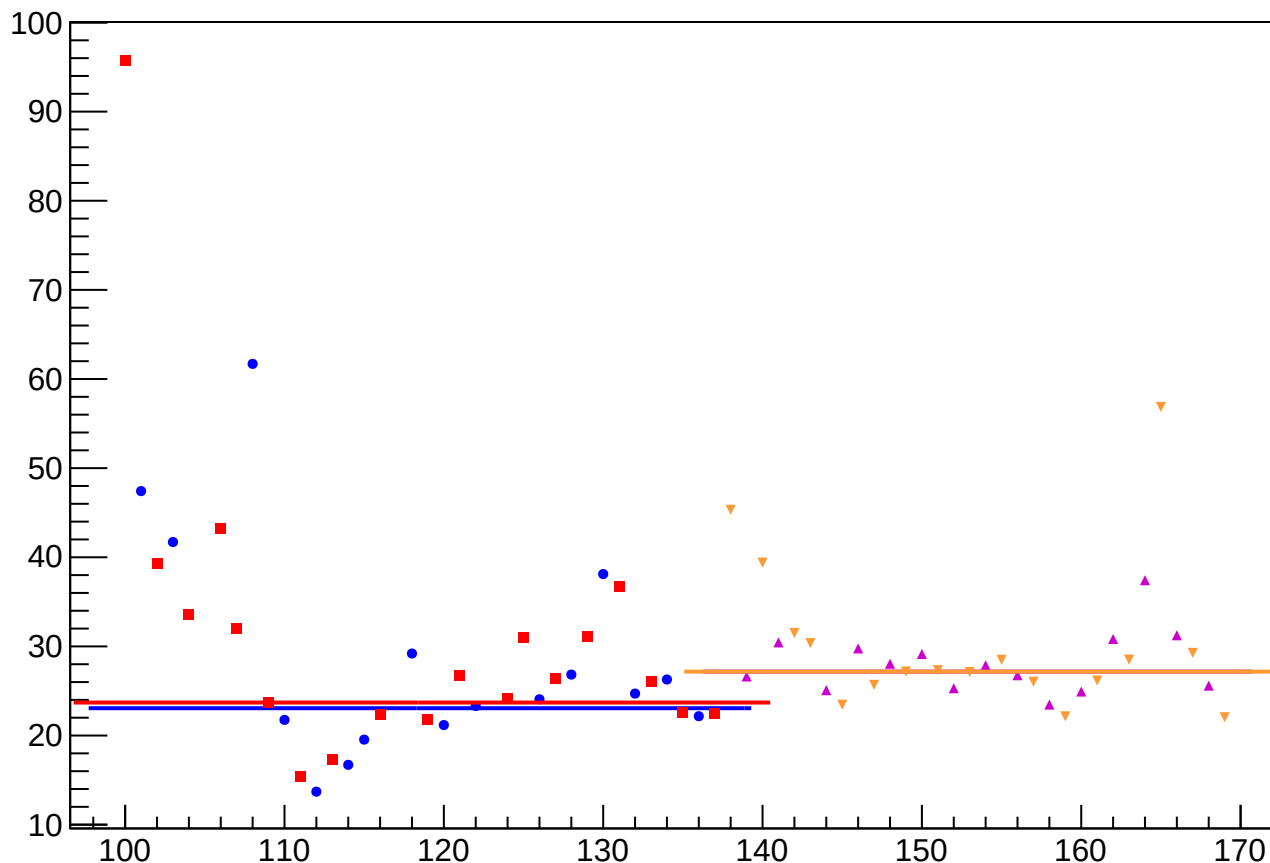
Right: -0.012 ± 0.007 χ^2/NDF : 40.9/34

In: -0.012 ± 0.006 χ^2/NDF : 34.6/30

Out: 0.004 ± 0.006 χ^2/NDF : 47.6/35

All: -0.004 ± 0.004 χ^2/NDF : 85.8/66

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.065 $\pm$ 0.007 χ^2 /NDF: 1564493.0/15

Left Out: 27.169 $\pm$ 0.005 χ^2 /NDF: 952849.7/16

Right Out: 23.702 $\pm$ 0.007 χ^2 /NDF: 1088531.8/18

Left In: 27.174 $\pm$ 0.006 χ^2 /NDF: 238048.7/14

Left: 27.171 $\pm$ 0.004 χ^2 /NDF: 1190898.6/31

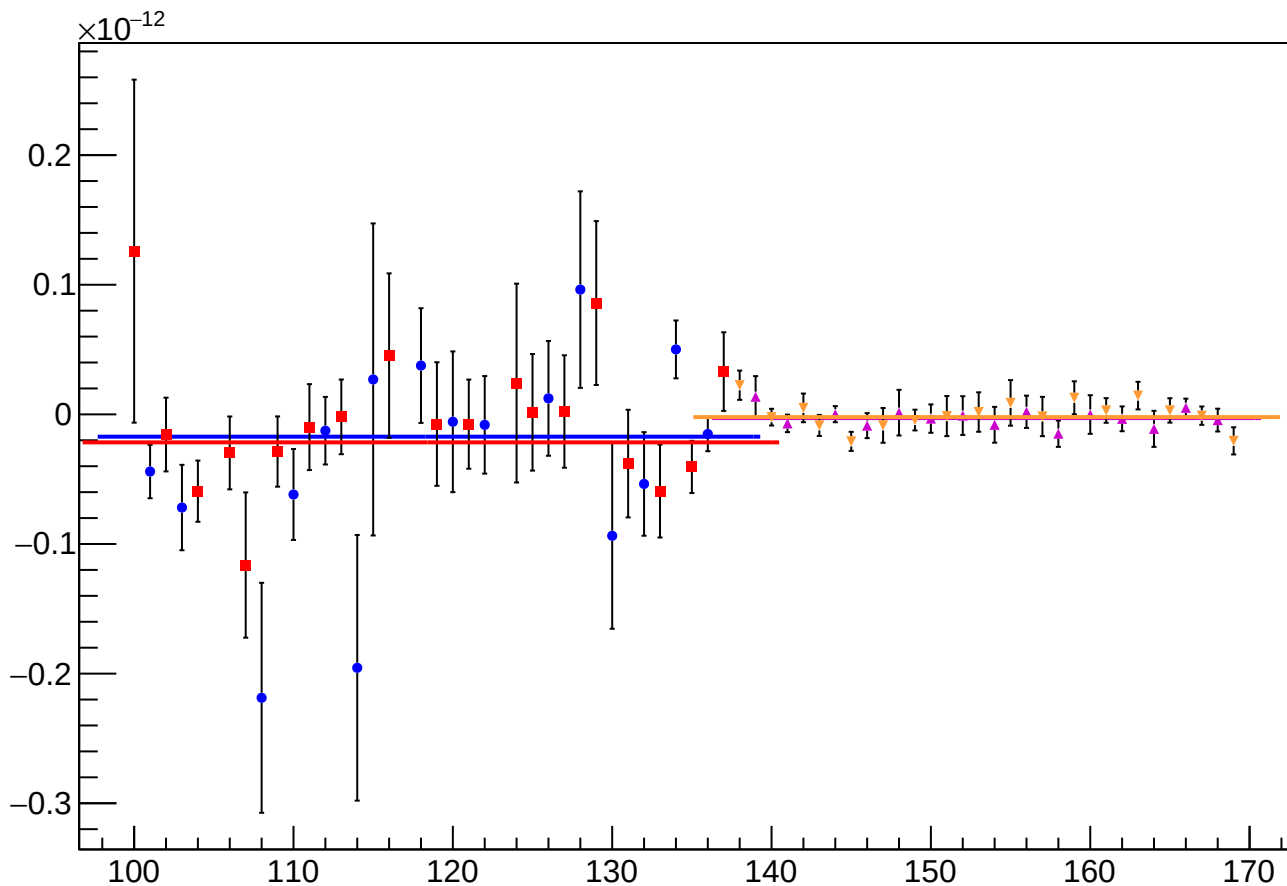
Right: 23.387 $\pm$ 0.005 χ^2 /NDF: 2657668.5/34

In: 25.439 $\pm$ 0.004 χ^2 /NDF: 2023582.0/30

Out: 25.753 $\pm$ 0.004 χ^2 /NDF: 2206146.8/35

All: 25.601 $\pm$ 0.003 χ^2 /NDF: 4232445.6/66

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 29.9/15

Left Out: -0.000+/-0.000 χ^2 /NDF:20.5/16

Right Out: -0.000+/-0.000 χ^2 /NDF: 18.0/18

Left In: -0.000+/-0.000 χ^2 /NDF:5.5/14

Left: -0.000+/-0.000 χ^2 /NDF: 26.1/31

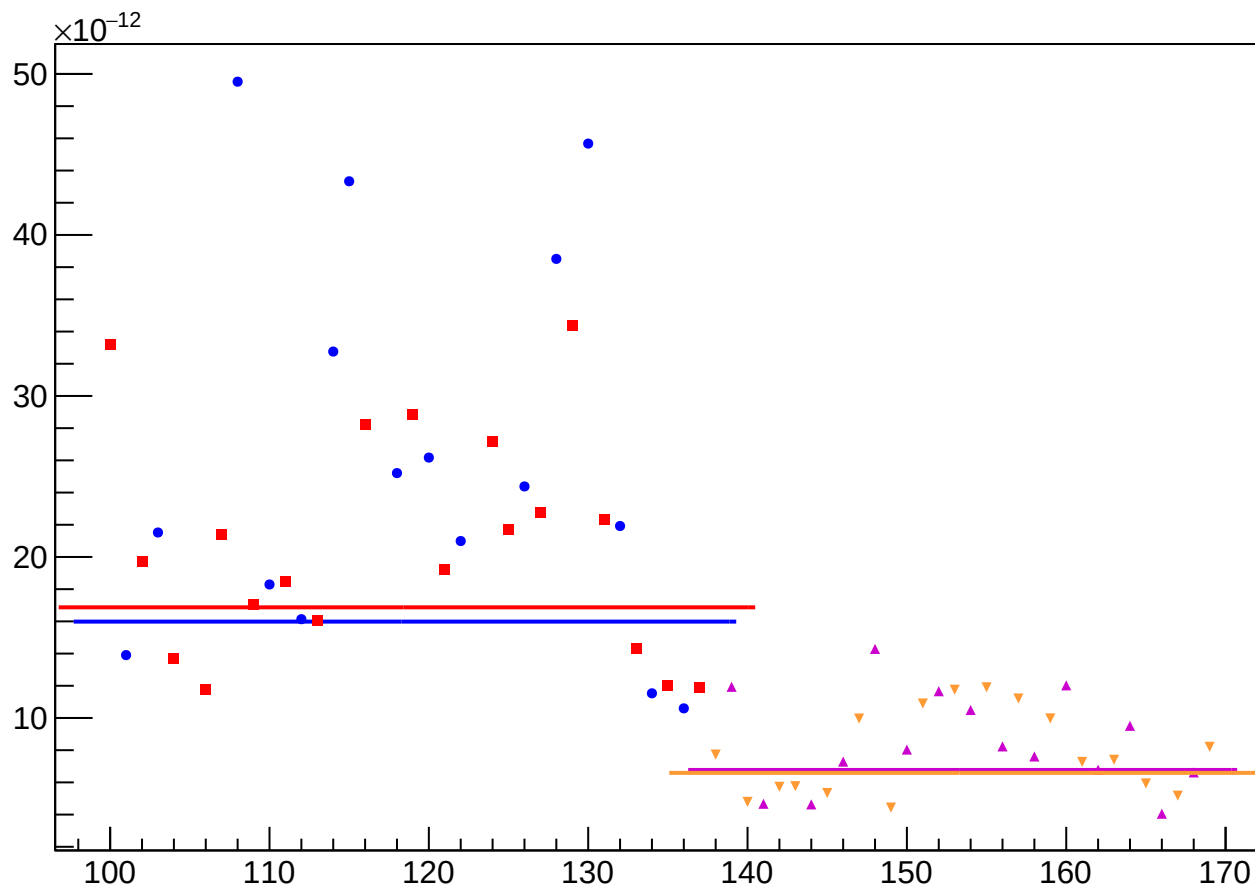
Right: -0.000+/-0.000 χ^2 /NDF: 48.0/34

In: -0.000+/-0.000 χ^2 /NDF:38.4/30

Out: -0.000+/-0.000 χ^2 /NDF:44.1/35

All: -0.000+/-0.000 χ^2 /NDF: 82.6/66

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1764617.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :1593337.0/16

Right Out: 0.000+/-0.000 χ^2/NDF : 835680.3/18

Left In: 0.000+/-0.000 χ^2/NDF :2062817.0/14

Left: 0.000+/-0.000 χ^2/NDF : 3661538.6/31

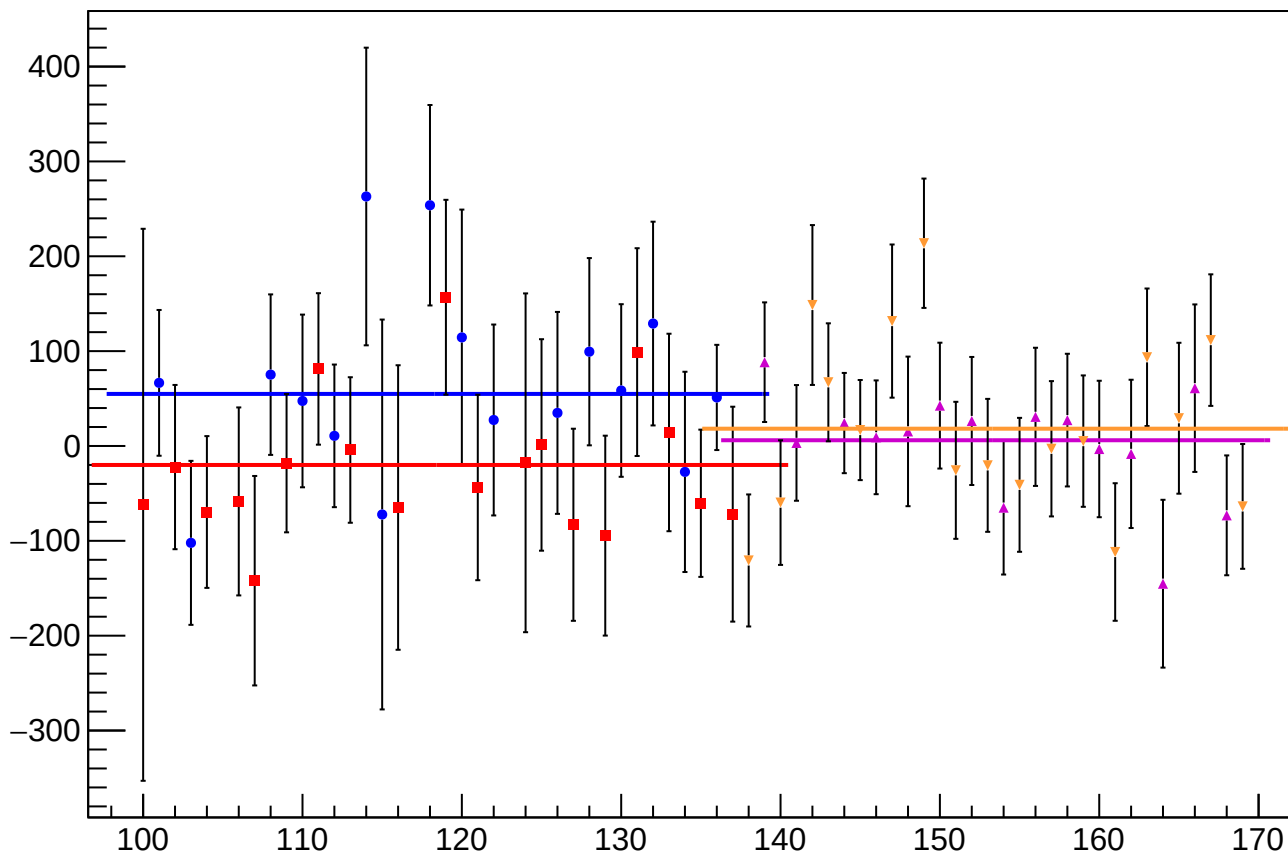
Right: 0.000+/-0.000 χ^2/NDF : 2613122.2/34

In: 0.000+/-0.000 χ^2/NDF :6368434.5/30

Out: 0.000+/-0.000 χ^2/NDF :5540843.9/35

All: 0.000+/-0.000 χ^2/NDF : 11918602.4/66

reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 54.883 ± 23.179 $\chi^2/\text{NDF}: 11.0/15$

Left Out: 18.223 ± 16.799 $\chi^2/\text{NDF}: 27.8/16$

Right Out: -20.020 ± 22.571 $\chi^2/\text{NDF}: 9.2/18$

Left In: 6.042 ± 17.619 $\chi^2/\text{NDF}: 8.4/14$

Left: 12.422 ± 12.158 $\chi^2/\text{NDF}: 36.4/31$

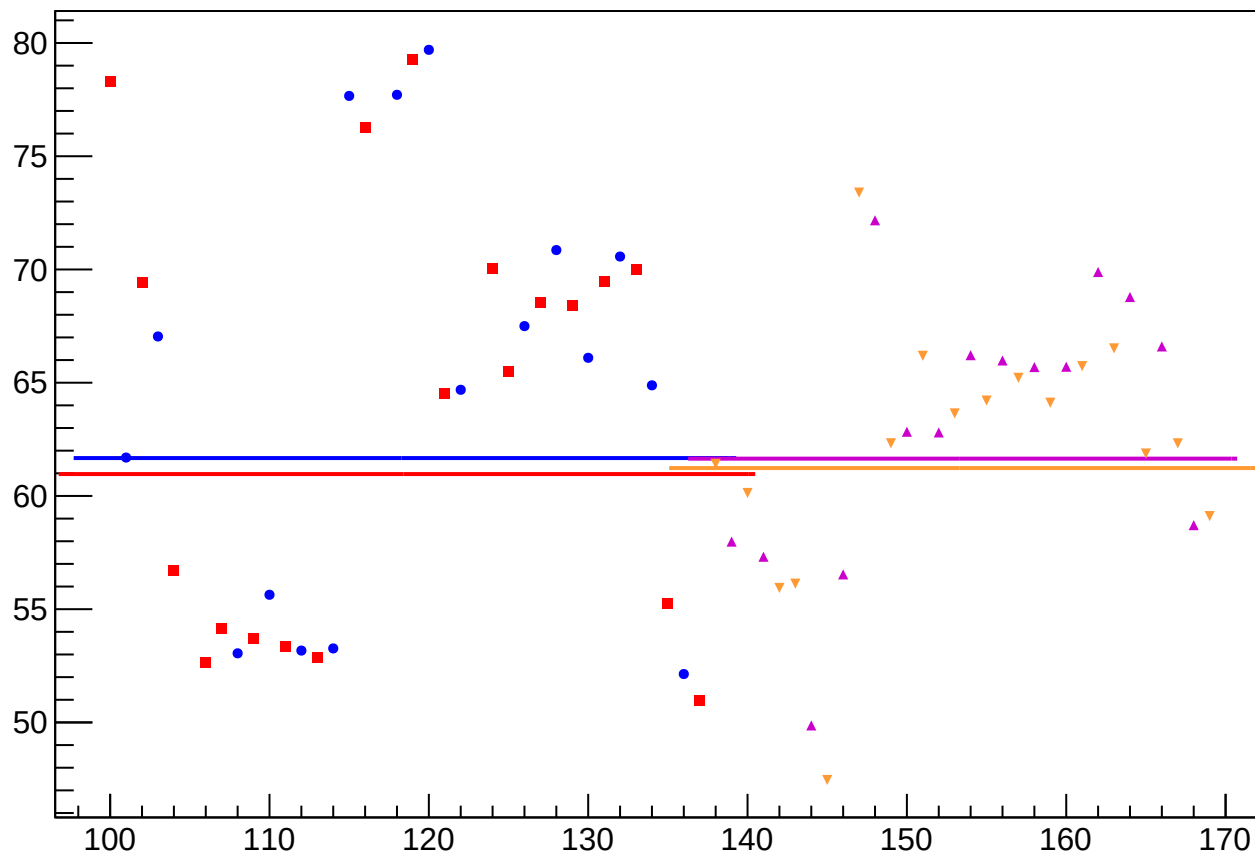
Right: 16.437 ± 16.171 $\chi^2/\text{NDF}: 25.6/34$

In: 23.928 ± 14.027 $\chi^2/\text{NDF}: 22.2/30$

Out: 4.590 ± 13.476 $\chi^2/\text{NDF}: 38.9/35$

All: 13.872 ± 9.718 $\chi^2/\text{NDF}: 62.1/66$

reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.673 $\pm$ 0.016 χ^2 /NDF: 267108.1/15

Left Out: 61.231 $\pm$ 0.012 χ^2 /NDF: 250114.5/16

Right Out: 60.967 $\pm$ 0.016 χ^2 /NDF: 284183.4/18

Left In: 61.647 $\pm$ 0.012 χ^2 /NDF: 241977.2/14

Left: 61.429 $\pm$ 0.009 χ^2 /NDF: 492676.5/31

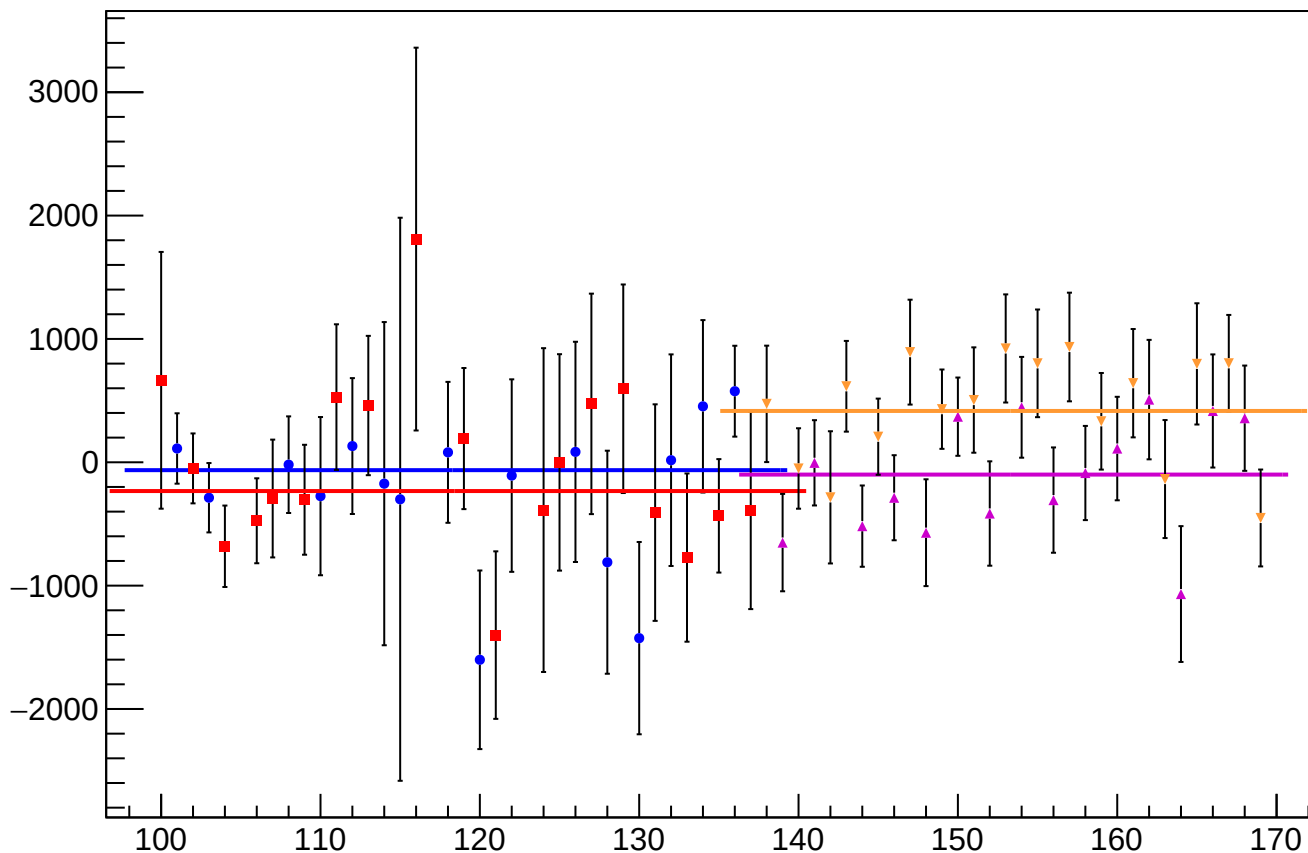
Right: 61.310 $\pm$ 0.011 χ^2 /NDF: 552244.9/34

In: 61.657 $\pm$ 0.010 χ^2 /NDF: 509086.8/30

Out: 61.137 $\pm$ 0.010 χ^2 /NDF: 534474.8/35

All: 61.386 $\pm$ 0.007 χ^2 /NDF: 1044990.8/66

asym_sam_37_48_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: -63.834 ± 129.674 χ^2/NDF : 13.2/15

Left Out: 416.109 ± 97.711 χ^2/NDF : 17.4/16

Right Out: -233.206 ± 122.791 χ^2/NDF : 14.5/18

Left In: -99.733 ± 102.550 χ^2/NDF : 17.2/14

Left: 170.645 ± 70.741 χ^2/NDF : 47.9/31

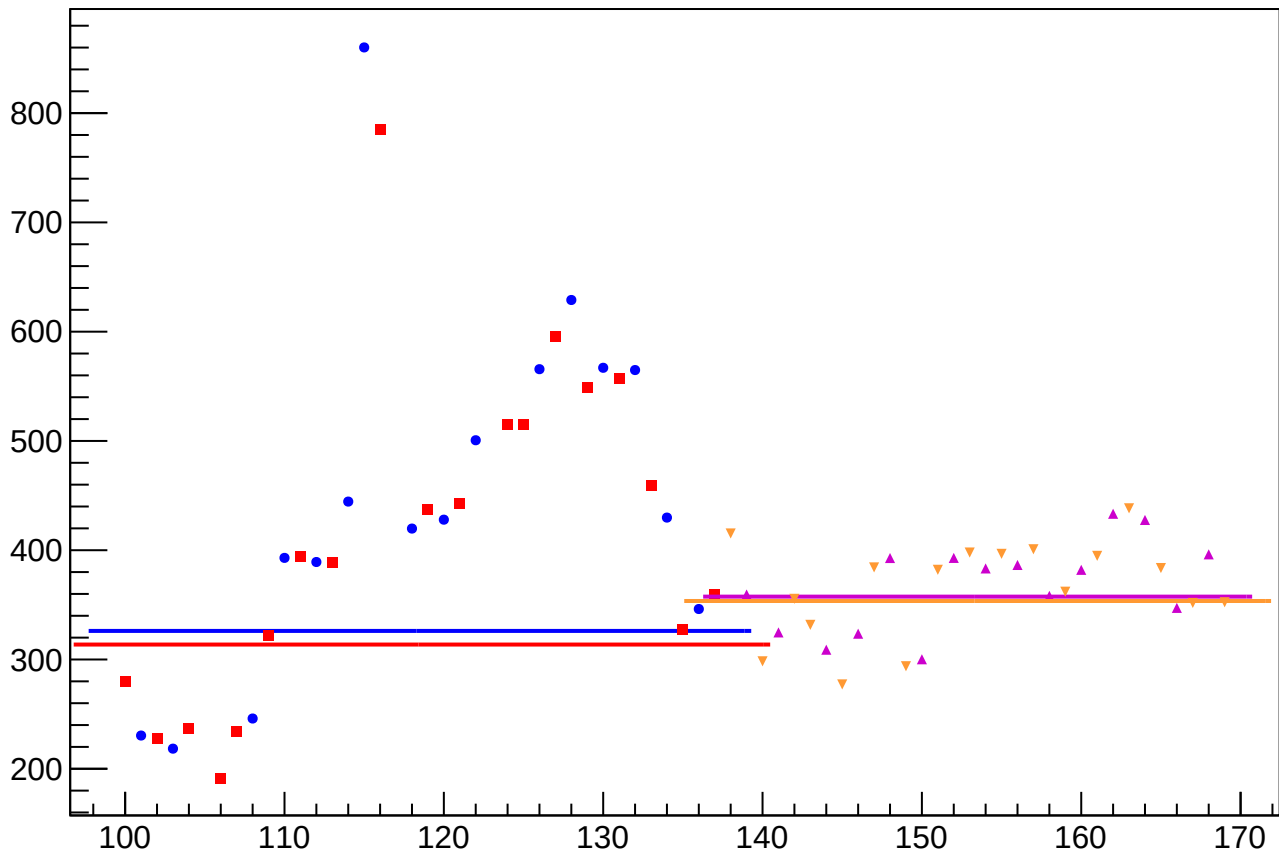
Right: -153.135 ± 89.161 χ^2/NDF : 28.6/34

In: -85.920 ± 80.437 χ^2/NDF : 30.5/30

Out: 164.362 ± 76.458 χ^2/NDF : 49.1/35

All: 45.564 ± 55.417 χ^2/NDF : 84.6/66

asym_sam_37_48_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 326.147 $\pm$ 0.092 χ^2 /NDF: 1733995.5/15

Left Out: 353.536 $\pm$ 0.069 χ^2 /NDF: 461419.6/16

Right Out: 313.672 $\pm$ 0.087 χ^2 /NDF: 1787347.3/18

Left In: 357.528 $\pm$ 0.073 χ^2 /NDF: 296483.6/14

Left: 355.436 $\pm$ 0.050 χ^2 /NDF: 759491.9/31

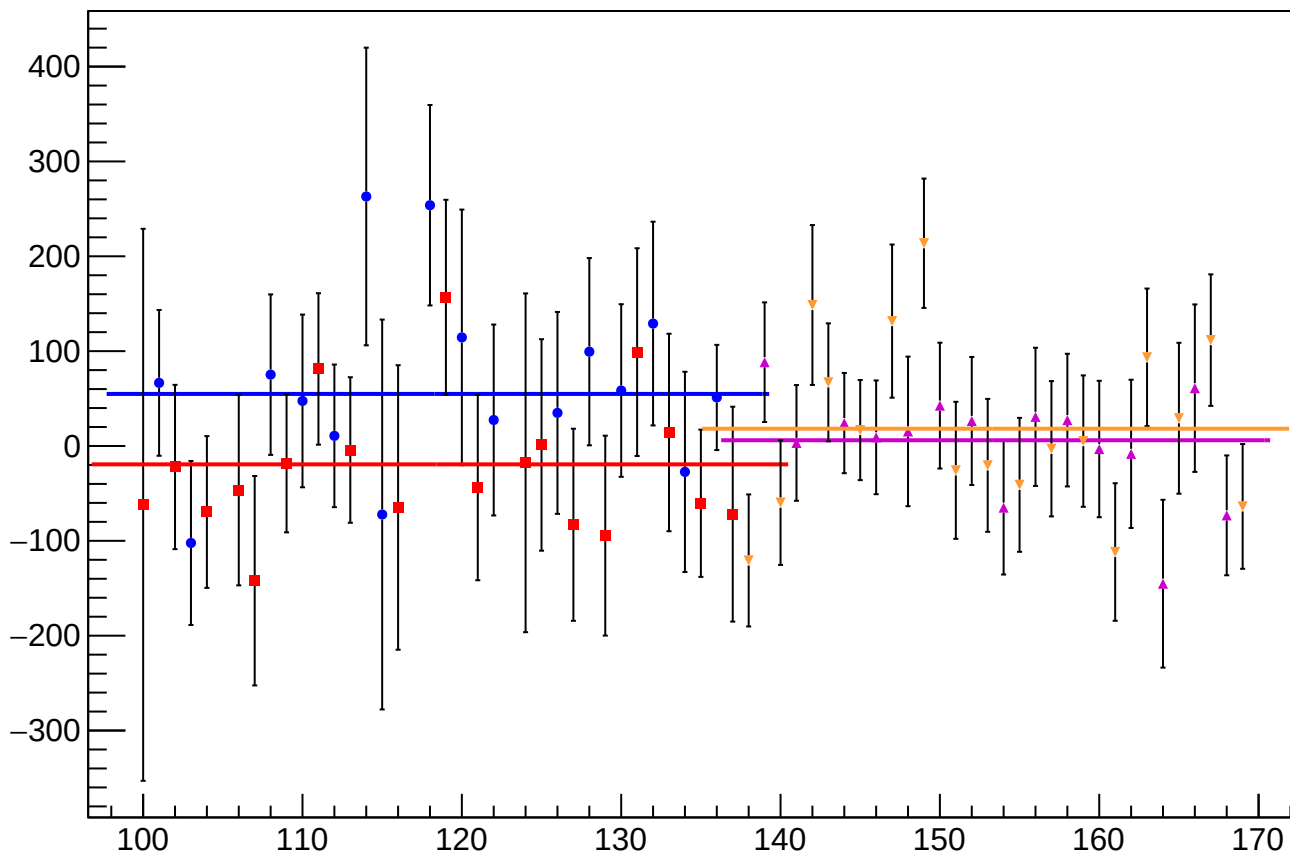
Right: 319.570 $\pm$ 0.063 χ^2 /NDF: 3531102.5/34

In: 345.454 $\pm$ 0.057 χ^2 /NDF: 2102539.4/30

Out: 338.080 $\pm$ 0.054 χ^2 /NDF: 2377835.4/35

All: 341.580 $\pm$ 0.039 χ^2 /NDF: 4489203.9/66

cor_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 54.877 ± 23.179 χ^2/NDF : 11.0/15

Left Out: 18.221 ± 16.799 χ^2/NDF : 27.8/16

Right Out: -19.352 ± 22.588 χ^2/NDF : 9.2/18

Left In: 6.042 ± 17.619 χ^2/NDF : 8.4/14

Left: 12.421 ± 12.158 χ^2/NDF : 36.4/31

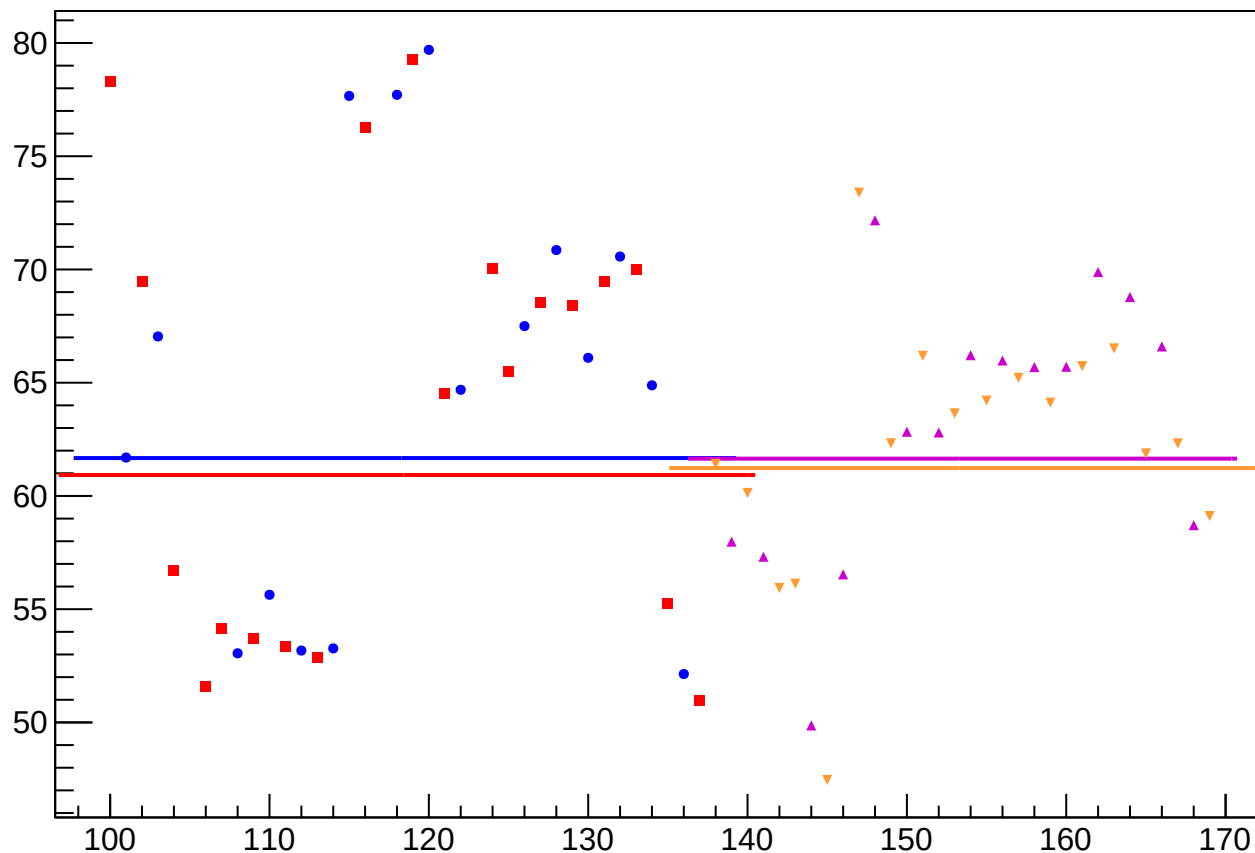
Right: 16.804 ± 16.177 χ^2/NDF : 25.4/34

In: 23.926 ± 14.027 χ^2/NDF : 22.2/30

Out: 4.840 ± 13.480 χ^2/NDF : 38.7/35

All: 14.003 ± 9.719 χ^2/NDF : 61.9/66

cor_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.673 $\pm$ 0.016 χ^2 /NDF: 267108.3/15

Left Out: 61.231 $\pm$ 0.012 χ^2 /NDF: 250114.5/16

Right Out: 60.926 $\pm$ 0.016 χ^2 /NDF: 287579.6/18

Left In: 61.647 $\pm$ 0.012 χ^2 /NDF: 241977.2/14

Left: 61.429 $\pm$ 0.009 χ^2 /NDF: 492676.5/31

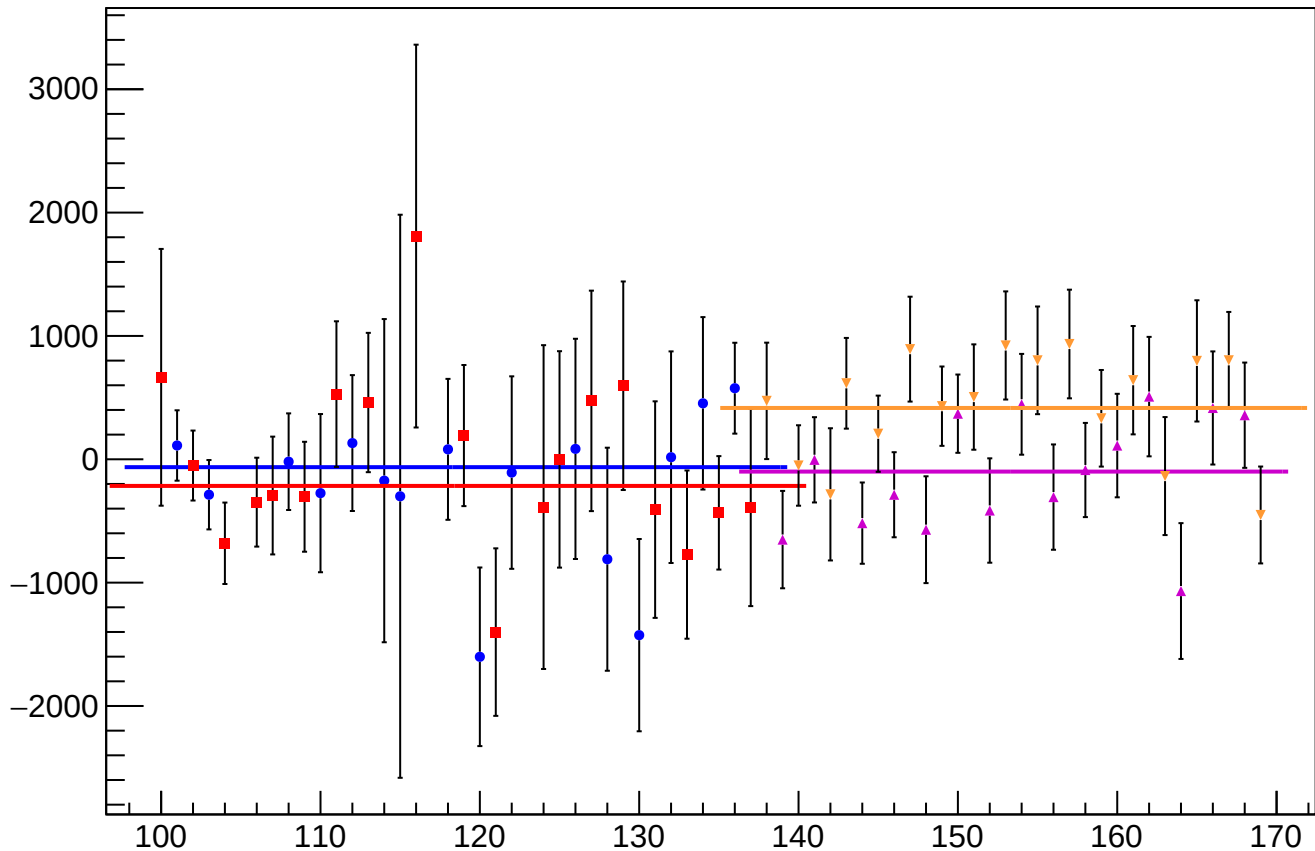
Right: 61.290 $\pm$ 0.011 χ^2 /NDF: 555754.0/34

In: 61.657 $\pm$ 0.010 χ^2 /NDF: 509087.0/30

Out: 61.122 $\pm$ 0.010 χ^2 /NDF: 537929.7/35

All: 61.379 $\pm$ 0.007 χ^2 /NDF: 1048526.0/66

asym_sam_37_48_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: -63.820 ± 129.675 χ^2/NDF : 13.2/15

Left Out: 416.109 ± 97.711 χ^2/NDF : 17.4/16

Right Out: -215.911 ± 123.491 χ^2/NDF : 14.1/18

Left In: -99.733 ± 102.550 χ^2/NDF : 17.2/14

Left: 170.645 ± 70.741 χ^2/NDF : 47.9/31

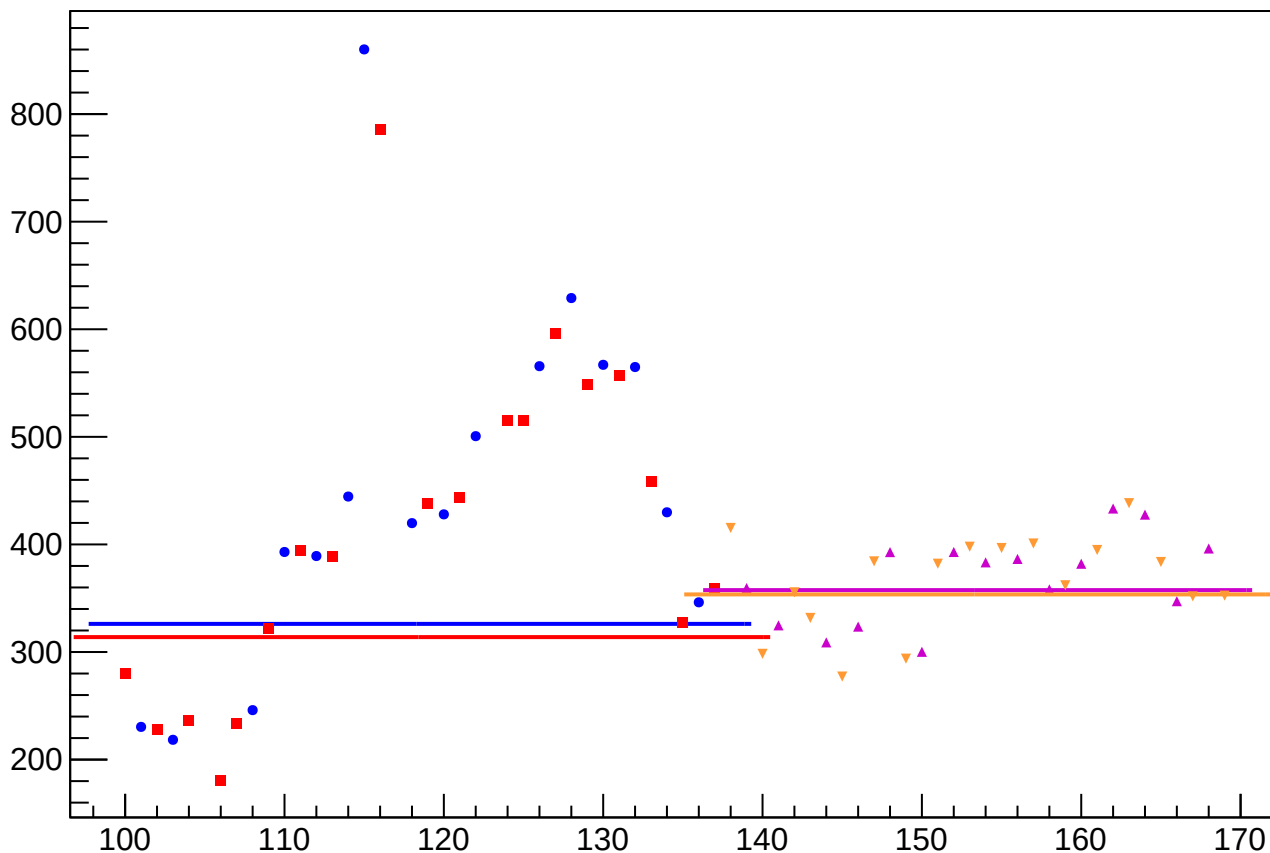
Right: -143.578 ± 89.428 χ^2/NDF : 28.0/34

In: -85.915 ± 80.437 χ^2/NDF : 30.5/30

Out: 172.771 ± 76.626 χ^2/NDF : 47.6/35

All: 49.701 ± 55.481 χ^2/NDF : 83.5/66

asym_sam_37_48_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 326.150+/-0.092 χ^2/NDF : 1733934.7/15

Left Out: 353.536+/-0.069 χ^2/NDF : 461418.8/16

Right Out: 313.861+/-0.087 χ^2/NDF : 1805779.4/18

Left In: 357.529+/-0.073 χ^2/NDF : 296483.8/14

Left: 355.436+/-0.050 χ^2/NDF : 759491.3/31

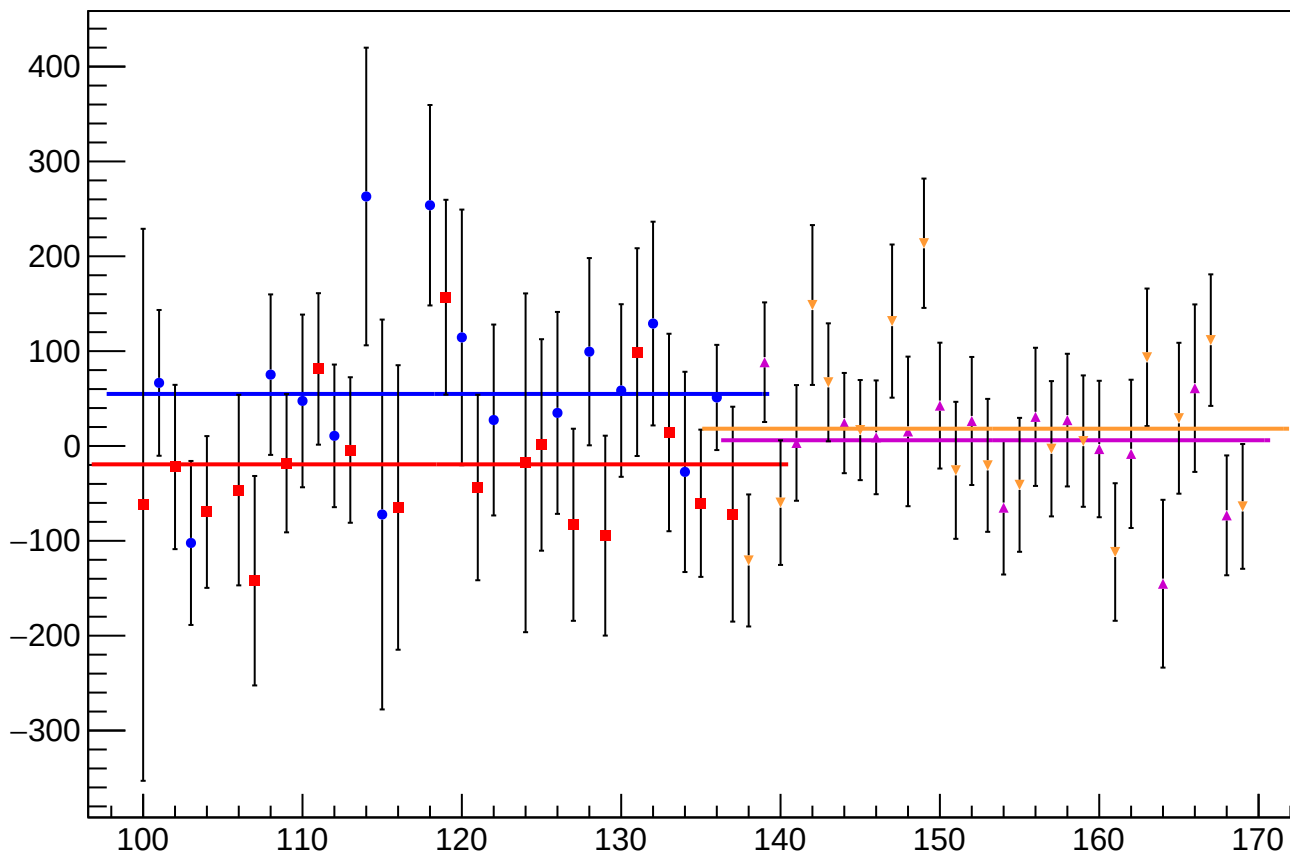
Right: 319.706+/-0.063 χ^2/NDF : 3549134.1/34

In: 345.455+/-0.057 χ^2/NDF : 2102465.8/30

Out: 338.261+/-0.054 χ^2/NDF : 2394158.3/35

All: 341.684+/-0.039 χ^2/NDF : 4505012.4/66

eigen_cor_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 54.877 ± 23.179 $\chi^2/\text{NDF}: 11.0/15$

Left Out: 18.221 ± 16.799 $\chi^2/\text{NDF}: 27.8/16$

Right Out: -19.352 ± 22.588 $\chi^2/\text{NDF}: 9.2/18$

Left In: 6.042 ± 17.619 $\chi^2/\text{NDF}: 8.4/14$

Left: 12.421 ± 12.158 $\chi^2/\text{NDF}: 36.4/31$

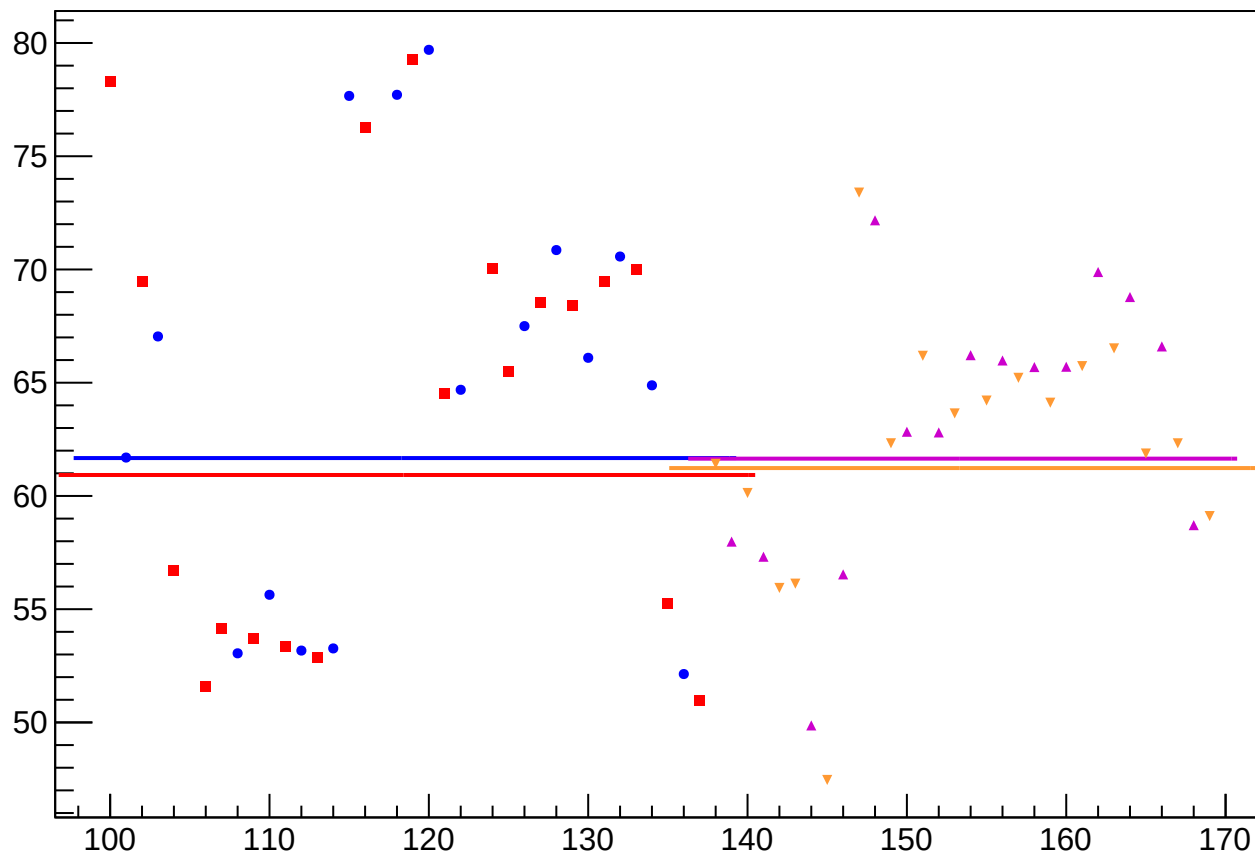
Right: 16.804 ± 16.177 $\chi^2/\text{NDF}: 25.4/34$

In: 23.926 ± 14.027 $\chi^2/\text{NDF}: 22.2/30$

Out: 4.840 ± 13.480 $\chi^2/\text{NDF}: 38.7/35$

All: 14.003 ± 9.719 $\chi^2/\text{NDF}: 61.9/66$

eigen_cor_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 61.673 $\pm$ 0.016 χ^2 /NDF: 267108.3/15

Left Out: 61.231 $\pm$ 0.012 χ^2 /NDF: 250114.5/16

Right Out: 60.926 $\pm$ 0.016 χ^2 /NDF: 287579.6/18

Left In: 61.647 $\pm$ 0.012 χ^2 /NDF: 241977.2/14

Left: 61.429 $\pm$ 0.009 χ^2 /NDF: 492676.5/31

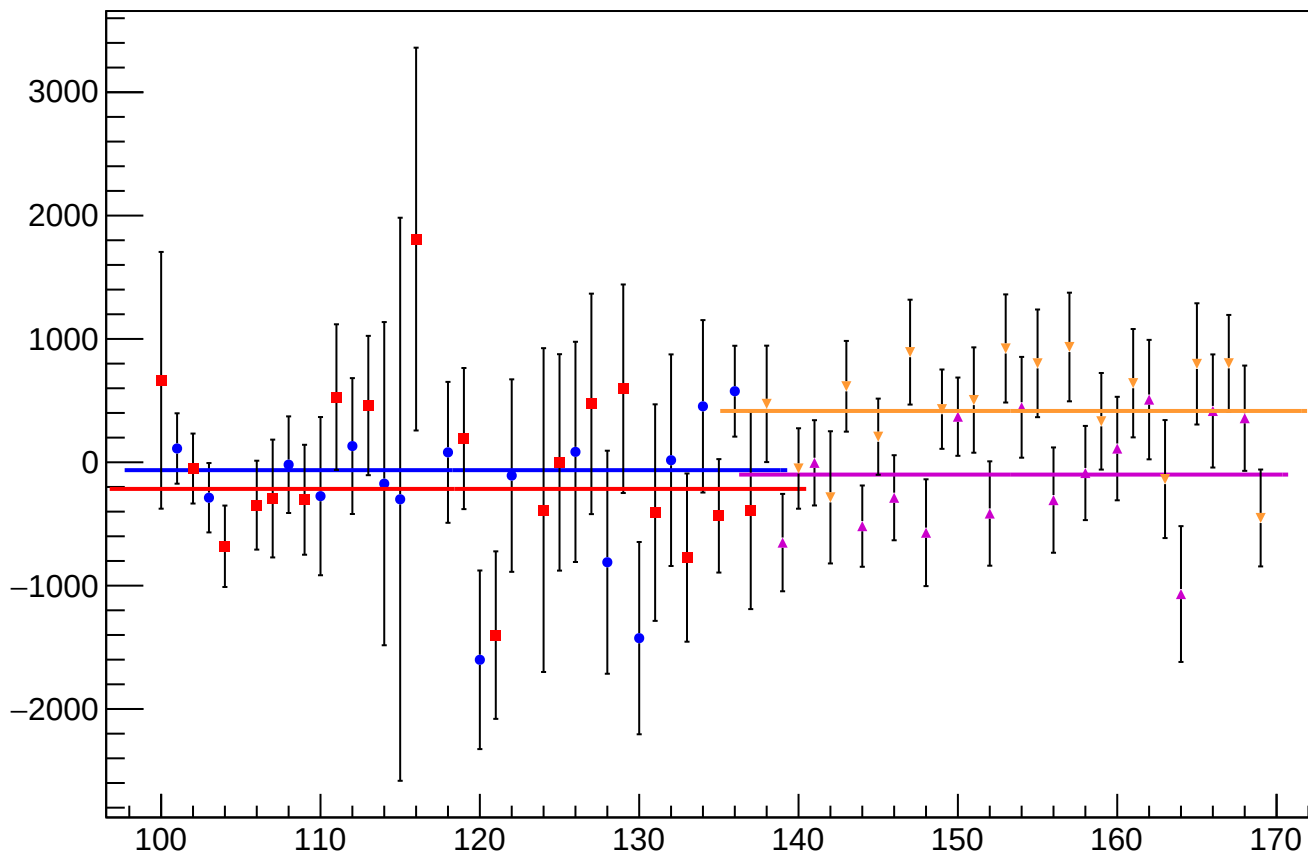
Right: 61.290 $\pm$ 0.011 χ^2 /NDF: 555754.0/34

In: 61.657 $\pm$ 0.010 χ^2 /NDF: 509087.0/30

Out: 61.122 $\pm$ 0.010 χ^2 /NDF: 537929.7/35

All: 61.379 $\pm$ 0.007 χ^2 /NDF: 1048526.0/66

asym_sam_37_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -63.820 ± 129.675 χ^2/NDF : 13.2/15

Left Out: 416.109 ± 97.711 χ^2/NDF : 17.4/16

Right Out: -215.911 ± 123.491 χ^2/NDF : 14.1/18

Left In: -99.733 ± 102.550 χ^2/NDF : 17.2/14

Left: 170.645 ± 70.741 χ^2/NDF : 47.9/31

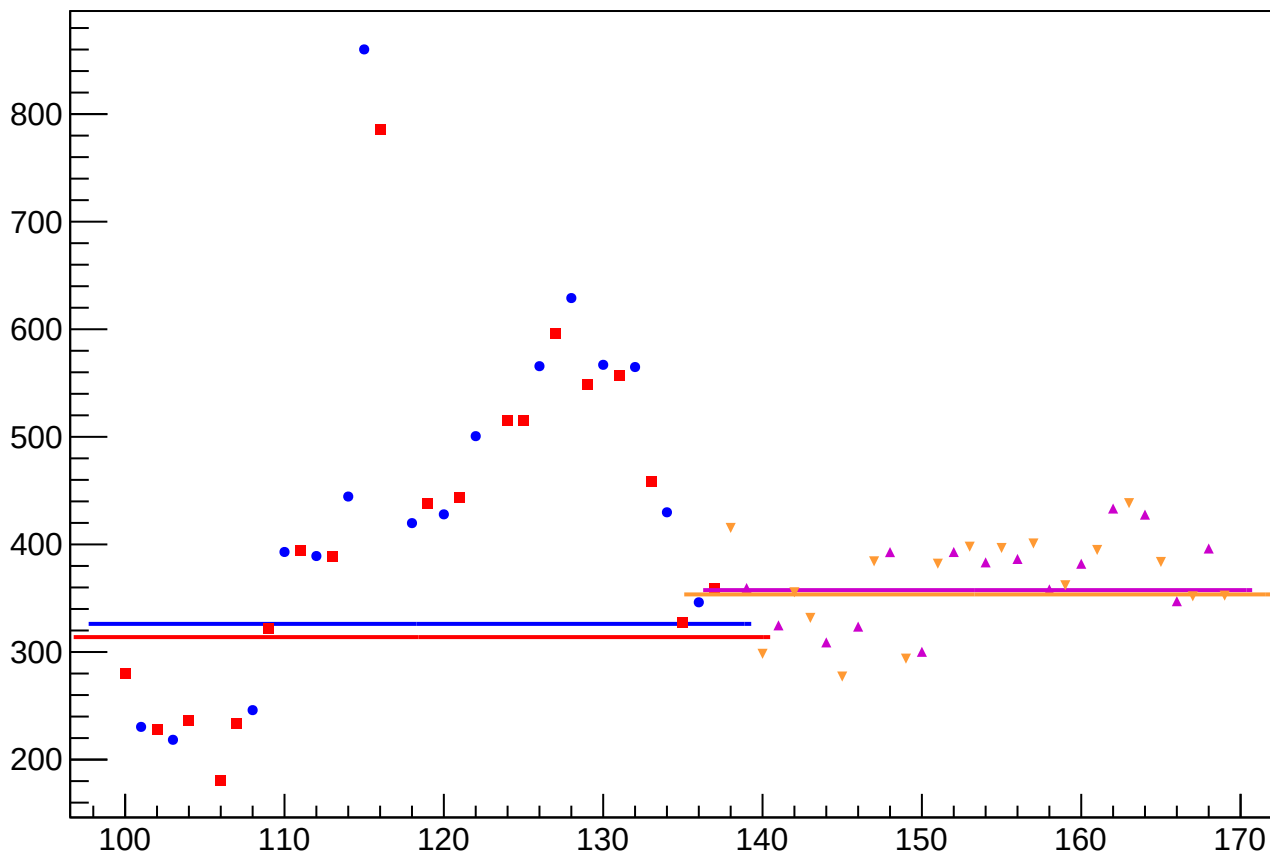
Right: -143.578 ± 89.428 χ^2/NDF : 28.0/34

In: -85.915 ± 80.437 χ^2/NDF : 30.5/30

Out: 172.771 ± 76.626 χ^2/NDF : 47.6/35

All: 49.701 ± 55.481 χ^2/NDF : 83.5/66

asym_sam_37_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 326.150+/-0.092 χ^2/NDF : 1733934.7/15

Left Out: 353.536+/-0.069 χ^2/NDF : 461418.8/16

Right Out: 313.861+/-0.087 χ^2/NDF : 1805779.4/18

Left In: 357.529+/-0.073 χ^2/NDF : 296483.8/14

Left: 355.436+/-0.050 χ^2/NDF : 759491.3/31

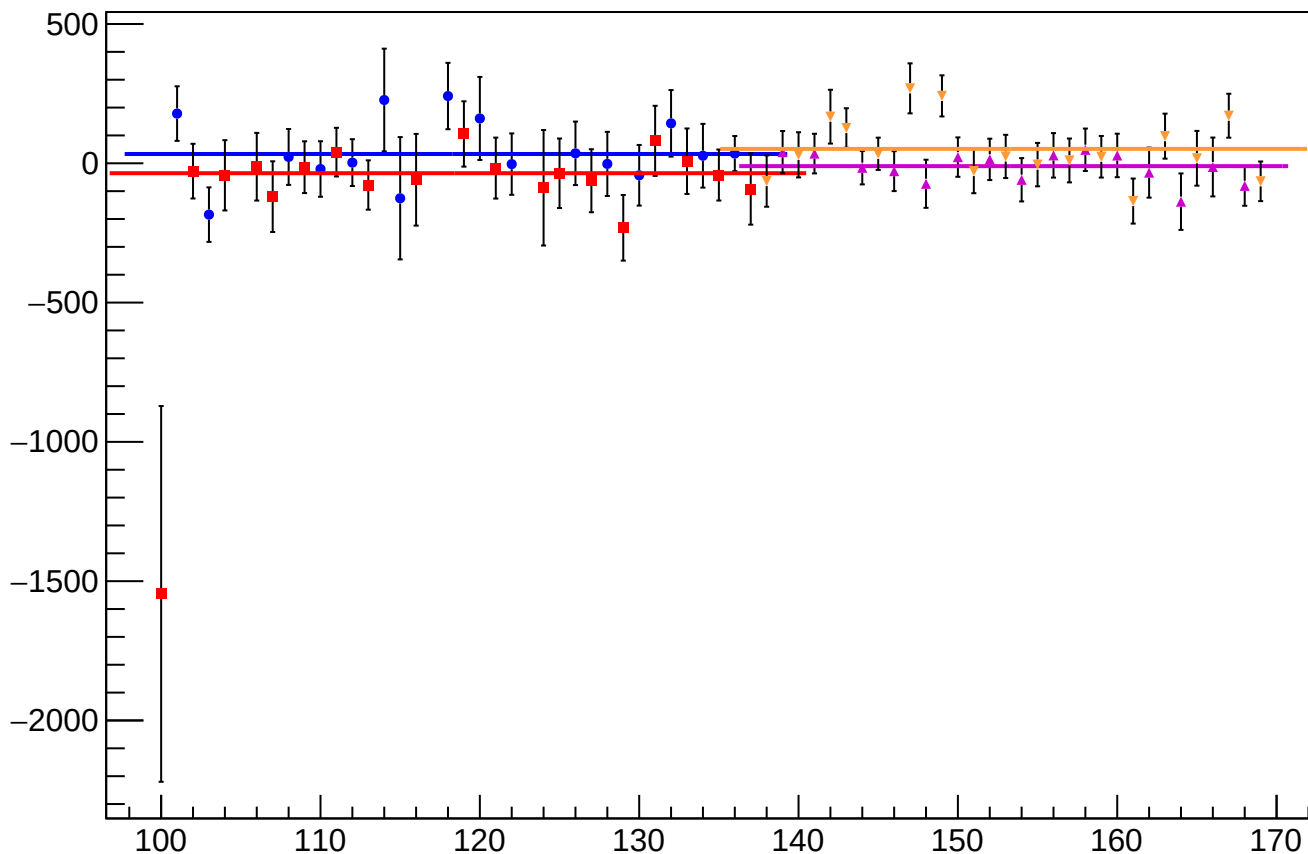
Right: 319.706+/-0.063 χ^2/NDF : 3549134.1/34

In: 345.455+/-0.057 χ^2/NDF : 2102465.8/30

Out: 338.261+/-0.054 χ^2/NDF : 2394158.3/35

All: 341.684+/-0.039 χ^2/NDF : 4505012.4/66

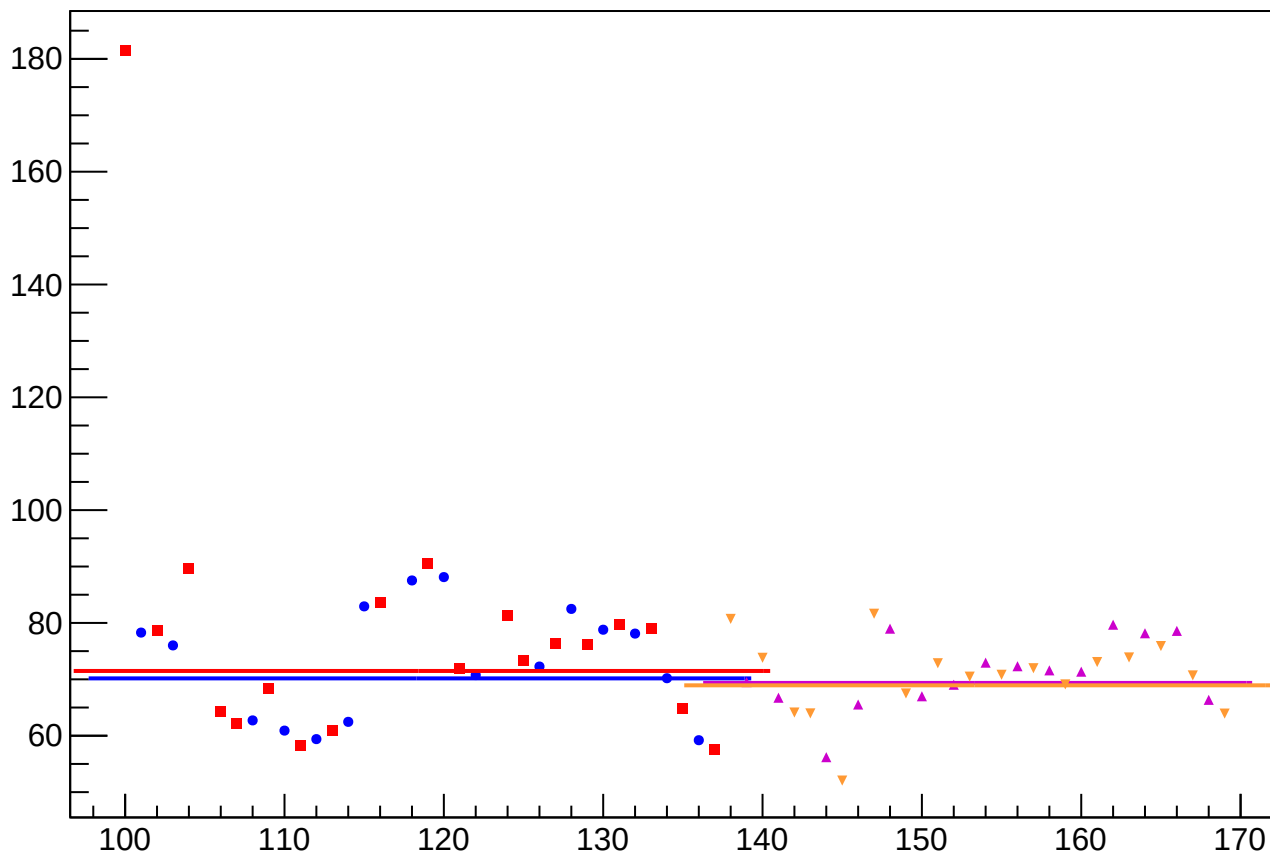
dit_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 33.399 ± 26.415 $\chi^2/\text{NDF}: 14.5/15$
 Left Out: 51.719 ± 18.968 $\chi^2/\text{NDF}: 29.6/16$
 Right Out: -35.576 ± 26.536 $\chi^2/\text{NDF}: 12.1/18$
 Left In: -10.213 ± 19.901 $\chi^2/\text{NDF}: 5.9/14$

Left: 22.238 ± 13.730 $\chi^2/\text{NDF}: 40.5/31$
 Right: -0.931 ± 18.721 $\chi^2/\text{NDF}: 30.0/34$
 In: 5.578 ± 15.895 $\chi^2/\text{NDF}: 22.1/30$
 Out: 22.199 ± 15.431 $\chi^2/\text{NDF}: 48.9/35$
 All: 14.134 ± 11.072 $\chi^2/\text{NDF}: 71.6/66$

dit_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 70.167 $\pm$ 0.019 χ^2 /NDF: 269249.9/15

Left Out: 68.937 $\pm$ 0.013 χ^2 /NDF:308953.3/16

Right Out: 71.483 $\pm$ 0.019 χ^2 /NDF: 325715.0/18

Left In: 69.363 $\pm$ 0.014 χ^2 /NDF:202515.8/14

Left: 69.140 $\pm$ 0.010 χ^2 /NDF: 511950.0/31

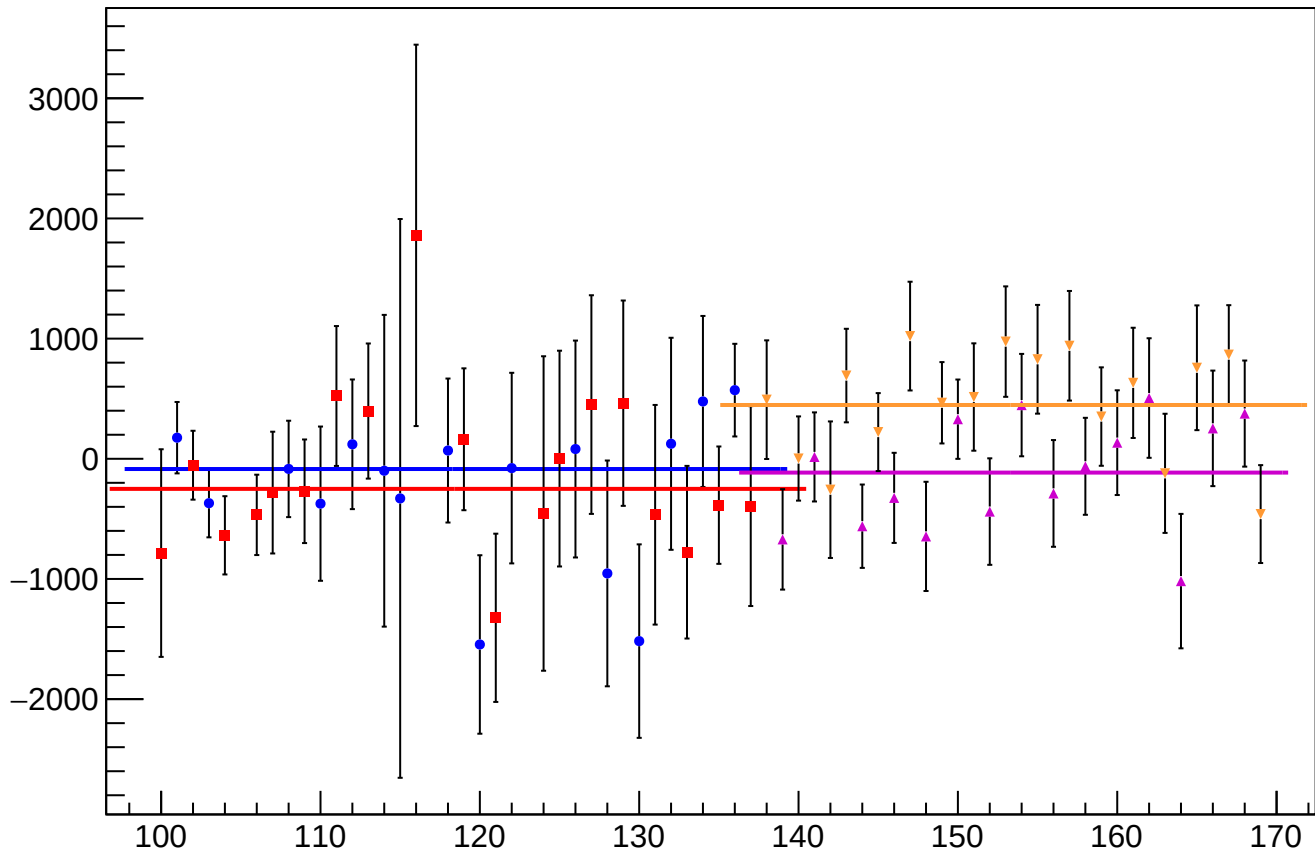
Right: 70.822 $\pm$ 0.013 χ^2 /NDF: 597434.8/34

In: 69.655 $\pm$ 0.011 χ^2 /NDF:472947.2/30

Out: 69.798 $\pm$ 0.011 χ^2 /NDF:646852.6/35

All: 69.728 $\pm$ 0.008 χ^2 /NDF: 1119883.8/66

asym_sam_37_48_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: -85.184 $\pm$ 132.877 χ^2/NDF : 13.7/15

Left Out: 447.631 $\pm$ 102.642 χ^2/NDF : 16.8/16

Right Out: -250.440 $\pm$ 123.302 χ^2/NDF : 12.5/18

Left In: -114.907 $\pm$ 107.690 χ^2/NDF : 15.8/14

Left: 179.856 $\pm$ 74.299 χ^2/NDF : 46.8/31

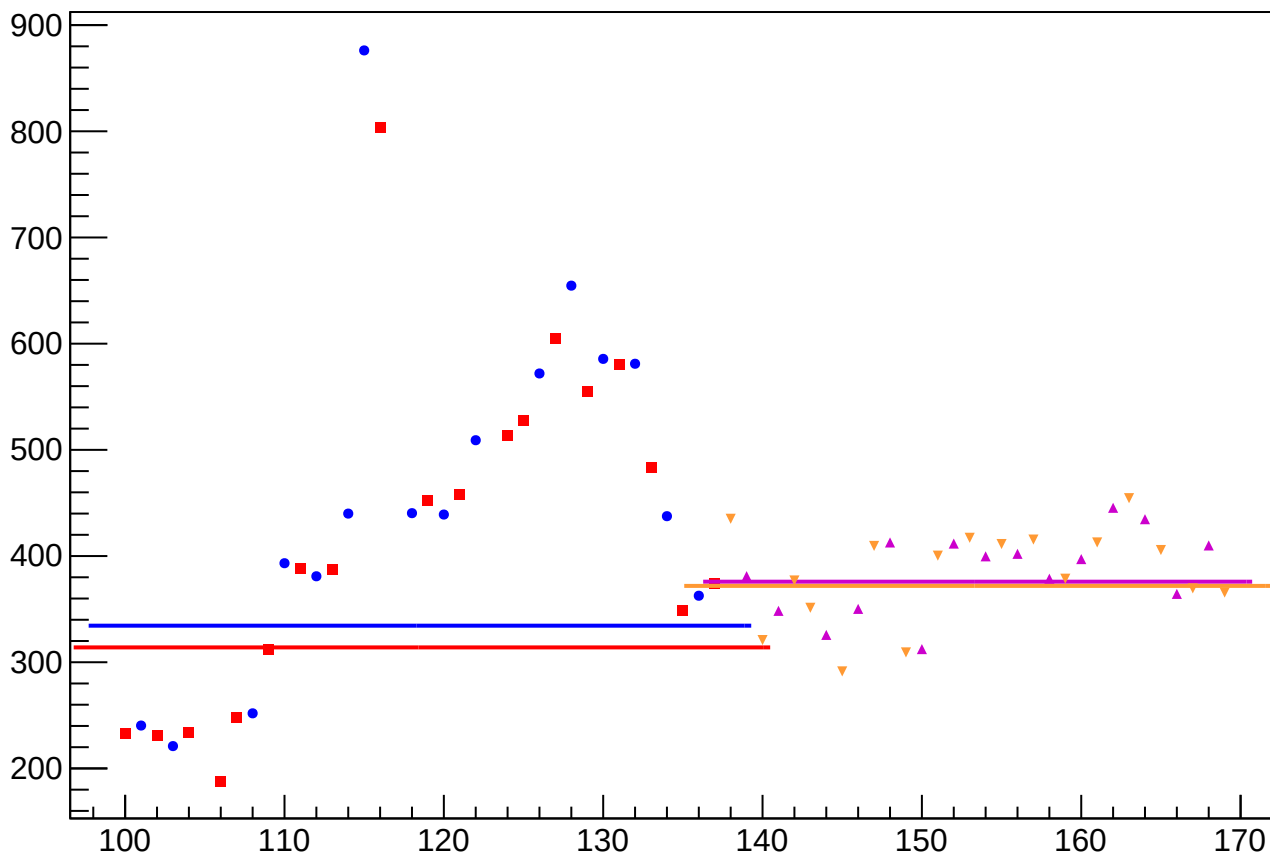
Right: -173.980 $\pm$ 90.383 χ^2/NDF : 27.0/34

In: -103.124 $\pm$ 83.663 χ^2/NDF : 29.5/30

Out: 161.897 $\pm$ 78.886 χ^2/NDF : 48.2/35

All: 37.169 $\pm$ 57.395 χ^2/NDF : 83.0/66

asym_sam_37_48_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 334.431+/-0.094 χ^2/NDF : 1730610.2/15

Left Out: 371.888+/-0.073 χ^2/NDF : 428573.2/16

Right Out: 313.971+/-0.087 χ^2/NDF : 1904605.9/18

Left In: 375.853+/-0.076 χ^2/NDF : 255178.1/14

Left: 373.776+/-0.053 χ^2/NDF : 685171.7/31

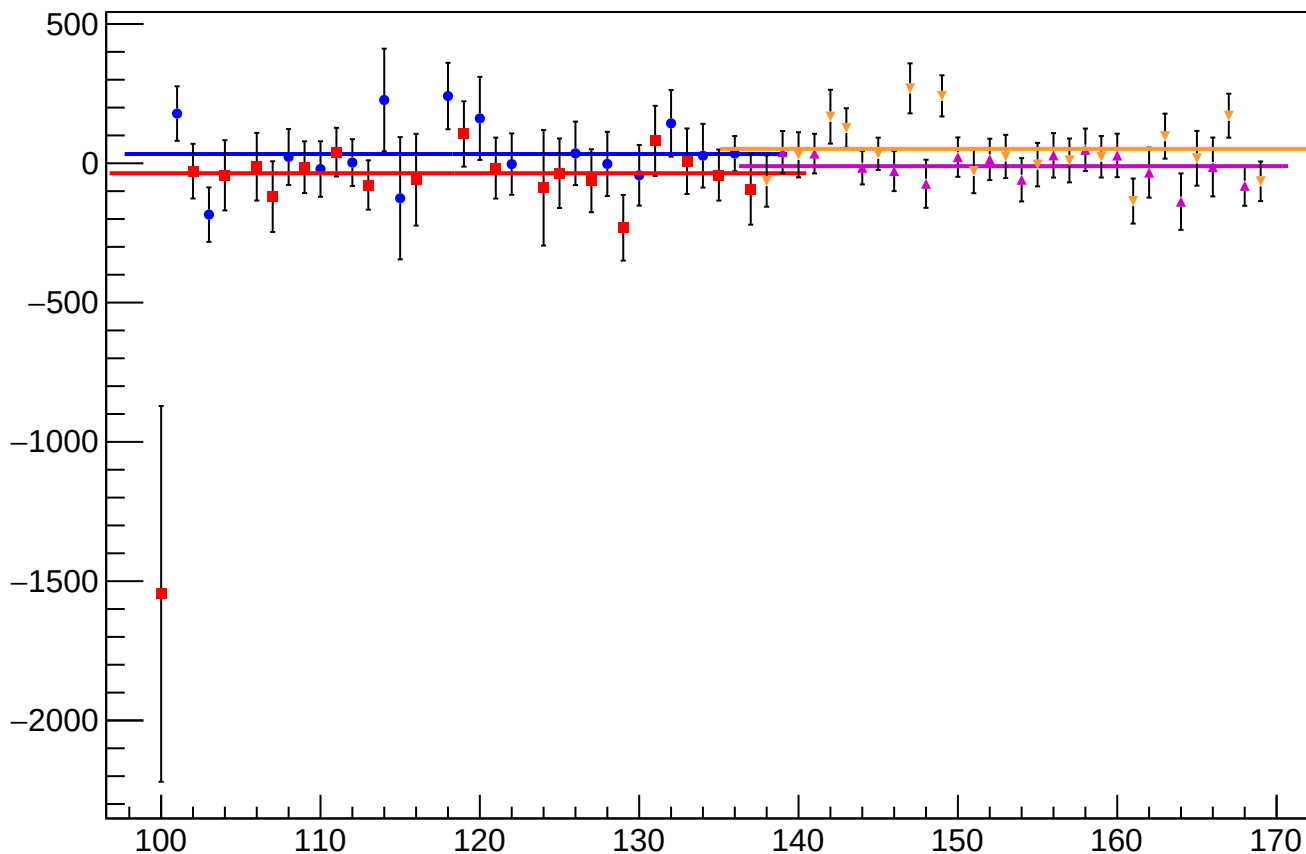
Right: 323.437+/-0.064 χ^2/NDF : 3660694.2/34

In: 359.432+/-0.059 χ^2/NDF : 2103095.0/30

Out: 348.182+/-0.056 χ^2/NDF : 2593832.6/35

All: 353.476+/-0.041 χ^2/NDF : 4716071.2/66

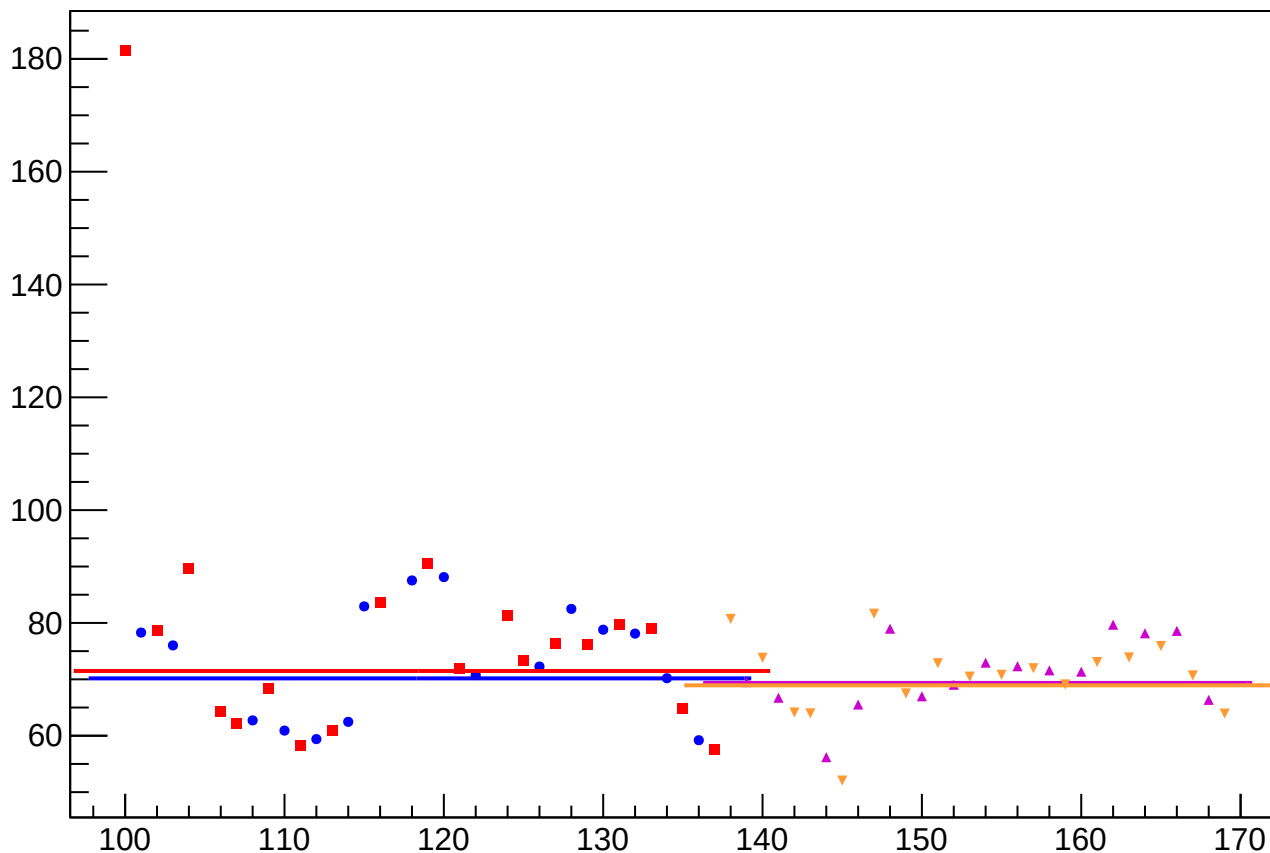
eigen_dit_asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 33.397 $\pm$ 26.415 χ^2 /NDF: 14.5/15
 Left Out: 51.719 $\pm$ 18.968 χ^2 /NDF:29.6/16
 Right Out: -35.577 $\pm$ 26.536 χ^2 /NDF: 12.1/18
 Left In: -10.213 $\pm$ 19.901 χ^2 /NDF:5.9/14

Left: 22.237 $\pm$ 13.730 χ^2 /NDF: 40.5/31
 Right: -0.932 $\pm$ 18.721 χ^2 /NDF: 30.0/34
 In: 5.578 $\pm$ 15.895 χ^2 /NDF:22.1/30
 Out: 22.198 $\pm$ 15.431 χ^2 /NDF:48.9/35
 All: 14.133 $\pm$ 11.072 χ^2 /NDF: 71.6/66

eigen_dit_asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 70.167 $\pm$ 0.019 χ^2 /NDF: 269253.0/15

Left Out: 68.937 $\pm$ 0.013 χ^2 /NDF:308960.1/16

Right Out: 71.483 $\pm$ 0.019 χ^2 /NDF: 325721.5/18

Left In: 69.363 $\pm$ 0.014 χ^2 /NDF:202518.1/14

Left: 69.140 $\pm$ 0.010 χ^2 /NDF: 511959.2/31

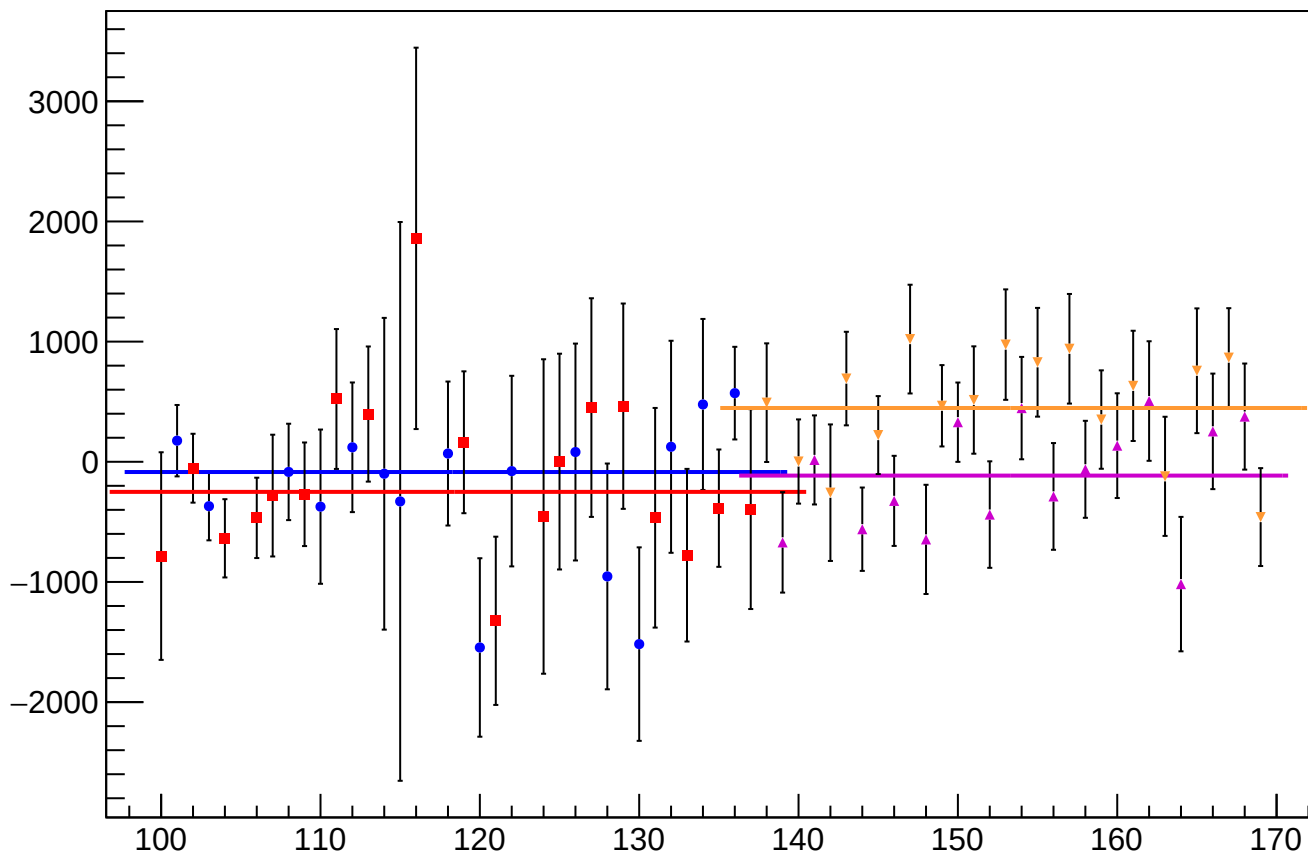
Right: 70.822 $\pm$ 0.013 χ^2 /NDF: 597444.3/34

In: 69.655 $\pm$ 0.011 χ^2 /NDF:472953.0/30

Out: 69.798 $\pm$ 0.011 χ^2 /NDF:646867.1/35

All: 69.728 $\pm$ 0.008 χ^2 /NDF: 1119904.1/66

asym_sam_37_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -85.185 ± 132.877 $\chi^2/\text{NDF}: 13.7/15$

Left Out: 447.630 ± 102.641 $\chi^2/\text{NDF}: 16.8/16$

Right Out: -250.440 ± 123.302 $\chi^2/\text{NDF}: 12.5/18$

Left In: -114.907 ± 107.690 $\chi^2/\text{NDF}: 15.8/14$

Left: 179.855 ± 74.299 $\chi^2/\text{NDF}: 46.8/31$

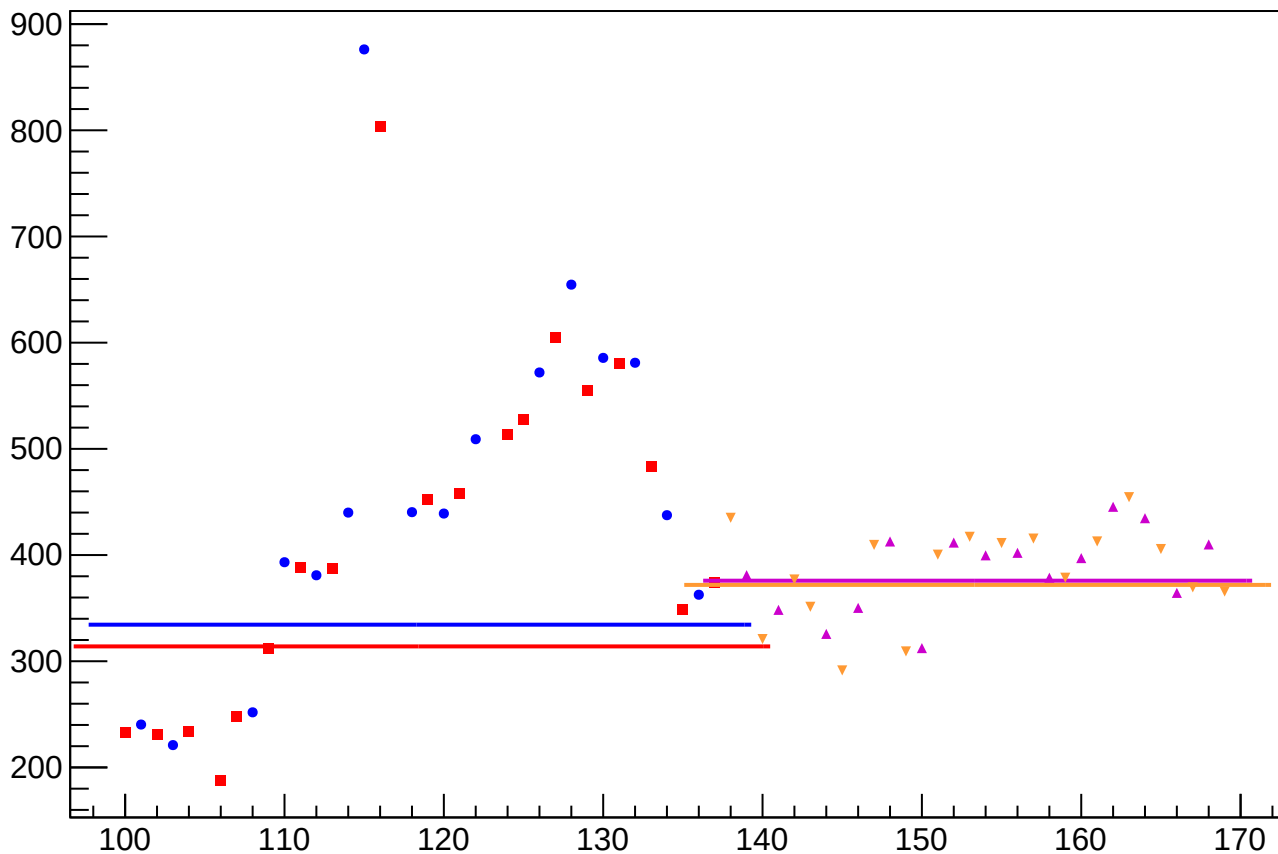
Right: -173.981 ± 90.383 $\chi^2/\text{NDF}: 27.0/34$

In: -103.124 ± 83.663 $\chi^2/\text{NDF}: 29.5/30$

Out: 161.897 ± 78.886 $\chi^2/\text{NDF}: 48.2/35$

All: 37.169 ± 57.395 $\chi^2/\text{NDF}: 83.0/66$

asym_sam_37_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 334.431+/-0.094 χ^2/NDF : 1730609.3/15

Left Out: 371.888+/-0.073 χ^2/NDF : 428577.5/16

Right Out: 313.971+/-0.087 χ^2/NDF : 1904604.3/18

Left In: 375.853+/-0.076 χ^2/NDF : 255177.2/14

Left: 373.776+/-0.053 χ^2/NDF : 685175.3/31

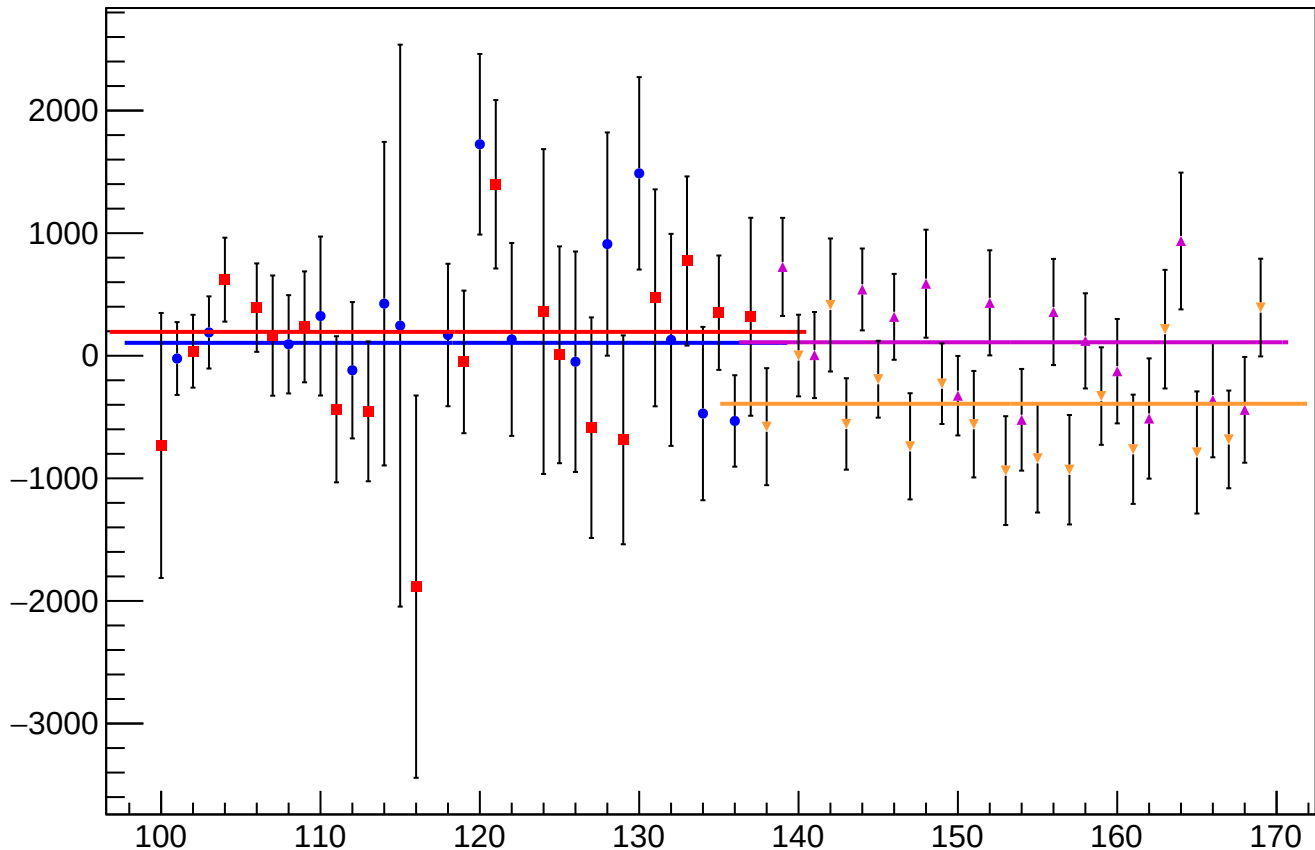
Right: 323.437+/-0.064 χ^2/NDF : 3660692.3/34

In: 359.432+/-0.059 χ^2/NDF : 2103091.6/30

Out: 348.182+/-0.056 χ^2/NDF : 2593833.1/35

All: 353.476+/-0.041 χ^2/NDF : 4716068.9/66

asym_sam_37_48_dd_mean vs Slug, Sign Corrected



Right In: 105.390+/-133.046 χ^2/NDF : 13.0/15

Left Out: -391.627+/-99.242 χ^2/NDF :16.7/16

Right Out: 194.712+/-126.198 χ^2/NDF : 13.1/18

Left In: 109.900+/-104.140 χ^2/NDF :17.4/14

Left: -152.934+/-71.844 χ^2/NDF : 46.3/31

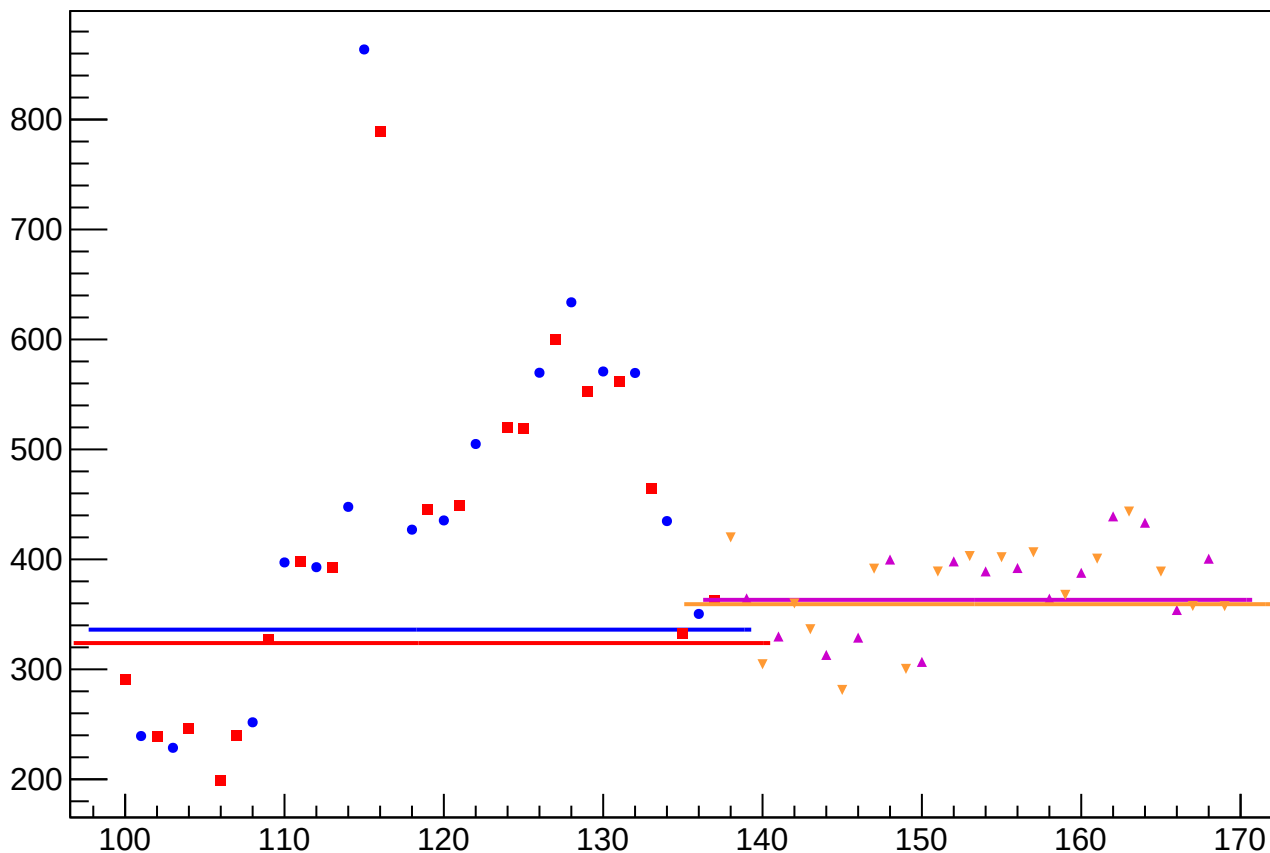
Right: 152.409+/-91.561 χ^2/NDF : 26.3/34

In: 108.187+/-82.006 χ^2/NDF :30.4/30

Out: -167.578+/-78.010 χ^2/NDF :43.2/35

All: -36.577+/-56.521 χ^2/NDF : 79.5/66

asym_sam_37_48_dd_rms vs Slug, Sign Corrected



Right In: 336.092 $\pm$ 0.094 χ^2 /NDF: 1618997.2/15

Left Out: 359.244 $\pm$ 0.070 χ^2 /NDF: 448397.6/16

Right Out: 323.885 $\pm$ 0.089 χ^2 /NDF: 1665420.8/18

Left In: 363.188 $\pm$ 0.074 χ^2 /NDF: 288866.5/14

Left: 361.121 $\pm$ 0.051 χ^2 /NDF: 738767.2/31

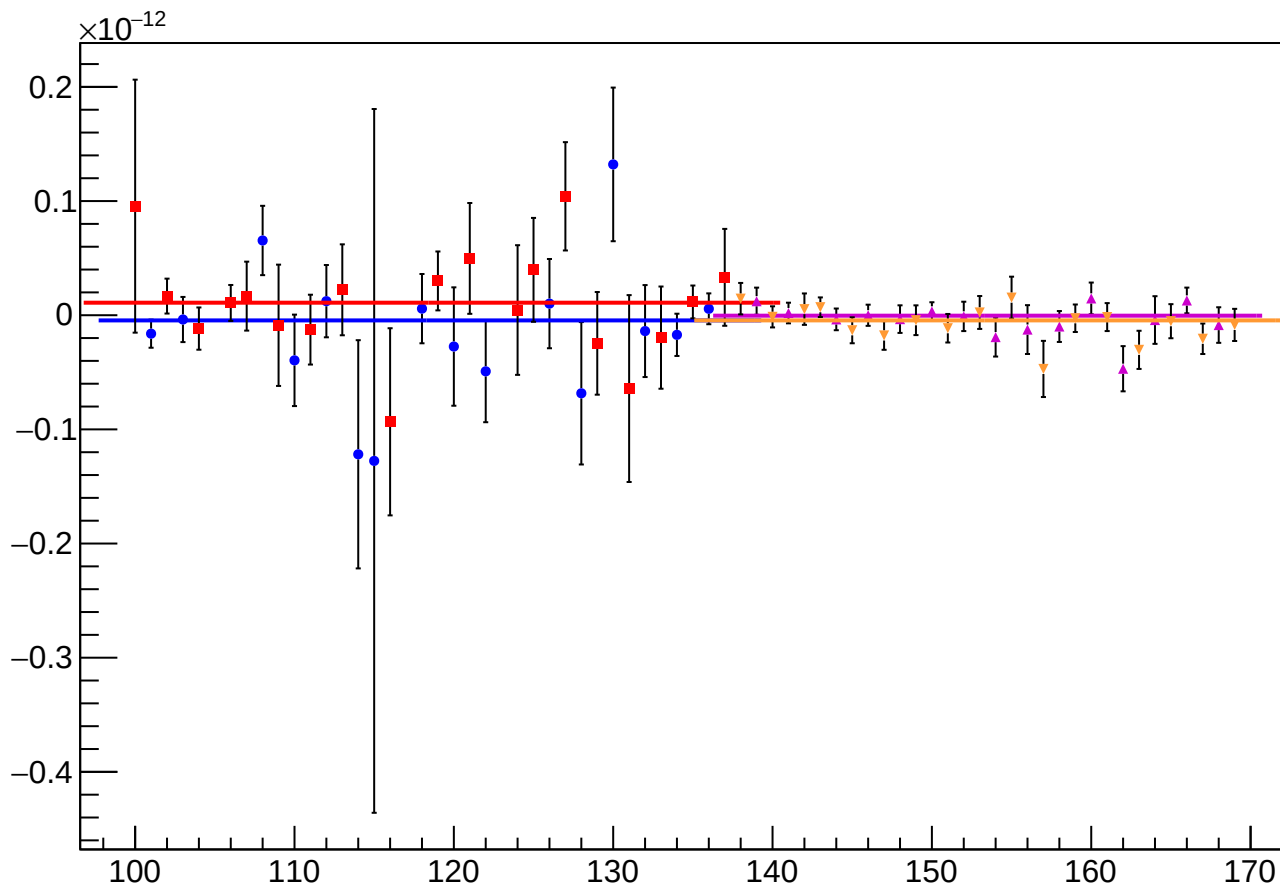
Right: 329.666 $\pm$ 0.065 χ^2 /NDF: 3293280.0/34

In: 352.894 $\pm$ 0.058 χ^2 /NDF: 1959302.4/30

Out: 345.733 $\pm$ 0.055 χ^2 /NDF: 2210831.4/35

All: 349.135 $\pm$ 0.040 χ^2 /NDF: 4178139.2/66

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 16.5/15

Left Out: -0.000+/-0.000 χ^2 /NDF:14.7/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 12.4/18

Left In: -0.000+/-0.000 χ^2 /NDF:12.0/14

Left: -0.000+/-0.000 χ^2 /NDF: 27.6/31

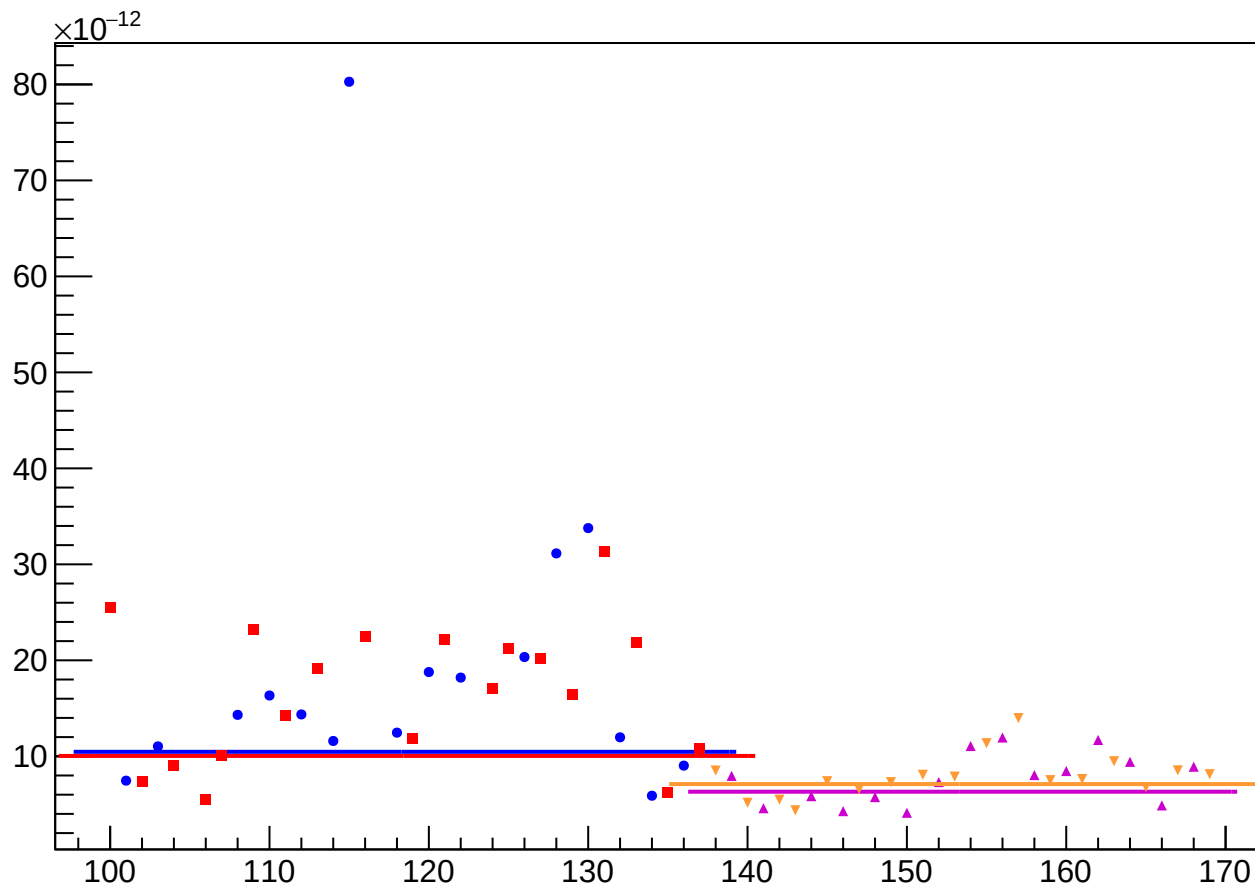
Right: 0.000+/-0.000 χ^2 /NDF: 31.8/34

In: -0.000+/-0.000 χ^2 /NDF:28.9/30

Out: -0.000+/-0.000 χ^2 /NDF:31.8/35

All: -0.000+/-0.000 χ^2 /NDF: 60.7/66

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1183833.2/15

Left Out: 0.000+/-0.000 χ^2/NDF : 707634.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1415778.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 1033650.7/14

Left: 0.000+/-0.000 χ^2/NDF : 1807132.1/31

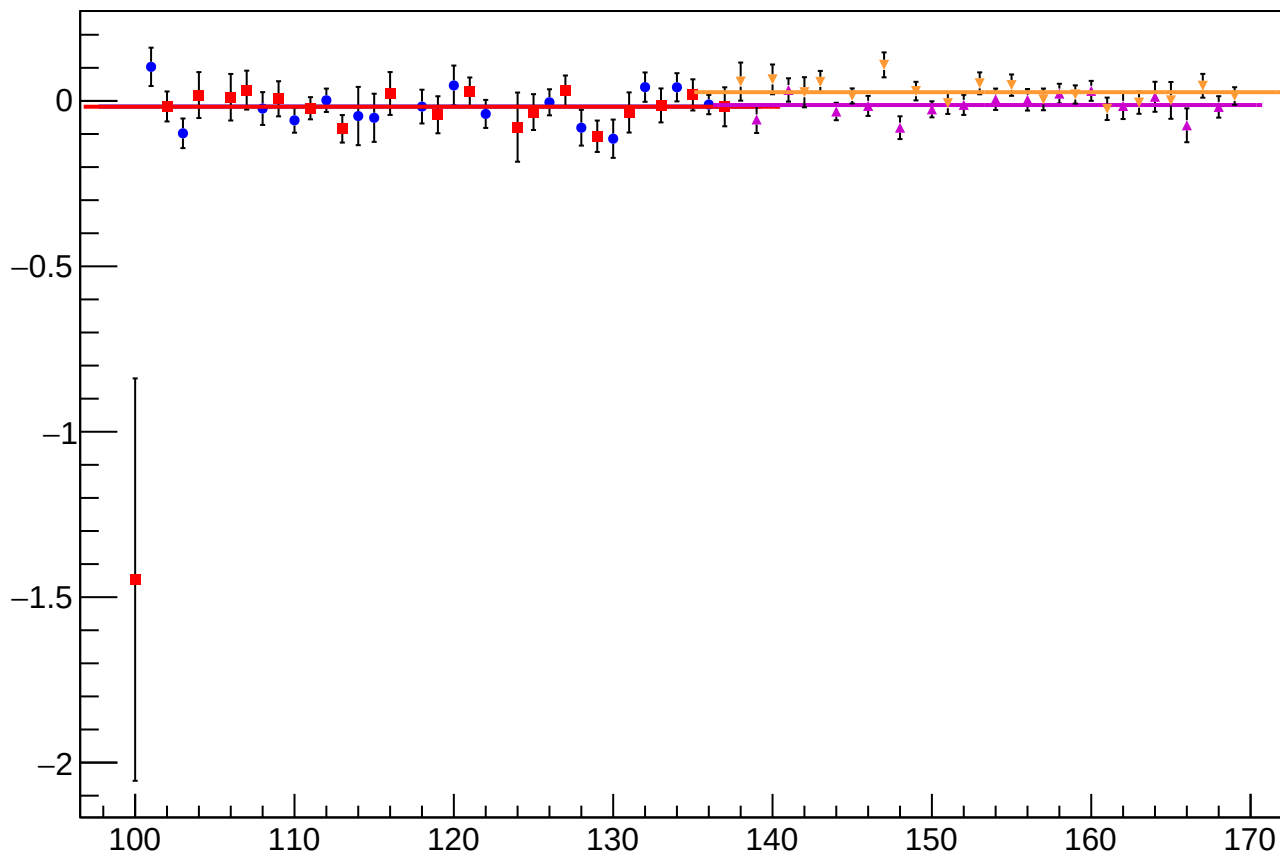
Right: 0.000+/-0.000 χ^2/NDF : 2604050.5/34

In: 0.000+/-0.000 χ^2/NDF : 2892847.6/30

Out: 0.000+/-0.000 χ^2/NDF : 2462327.6/35

All: 0.000+/-0.000 χ^2/NDF : 5396593.0/66

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.017 ± 0.011 χ^2/NDF : 18.8/15

Left Out: 0.026 ± 0.008 χ^2/NDF : 13.4/16

Right Out: -0.018 ± 0.012 χ^2/NDF : 16.8/18

Left In: -0.012 ± 0.008 χ^2/NDF : 13.3/14

Left: 0.008 ± 0.006 χ^2/NDF : 37.8/31

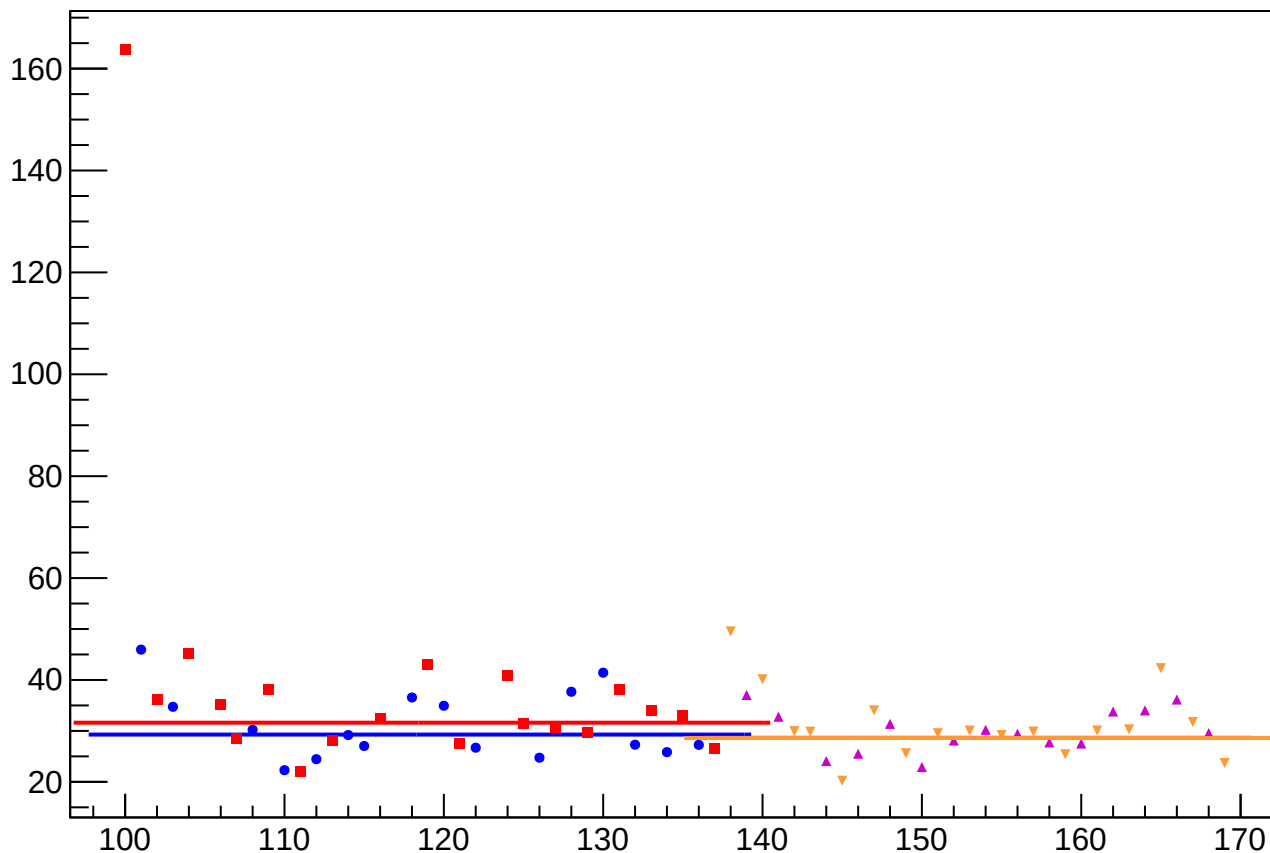
Right: -0.017 ± 0.008 χ^2/NDF : 35.7/34

In: -0.014 ± 0.007 χ^2/NDF : 32.2/30

Out: 0.013 ± 0.007 χ^2/NDF : 39.4/35

All: -0.000 ± 0.005 χ^2/NDF : 79.6/66

asym_sam_37_48_dd_dit_vs_slug, Sign Corrected



Right In: 29.278+/-0.008 χ^2/NDF : 560654.9/15

Left Out: 28.606+/-0.006 χ^2/NDF : 982754.8/16

Right Out: 31.613+/-0.009 χ^2/NDF : 572190.6/18

Left In: 28.645+/-0.006 χ^2/NDF : 436197.2/14

Left: 28.625+/-0.004 χ^2/NDF : 1418975.0/31

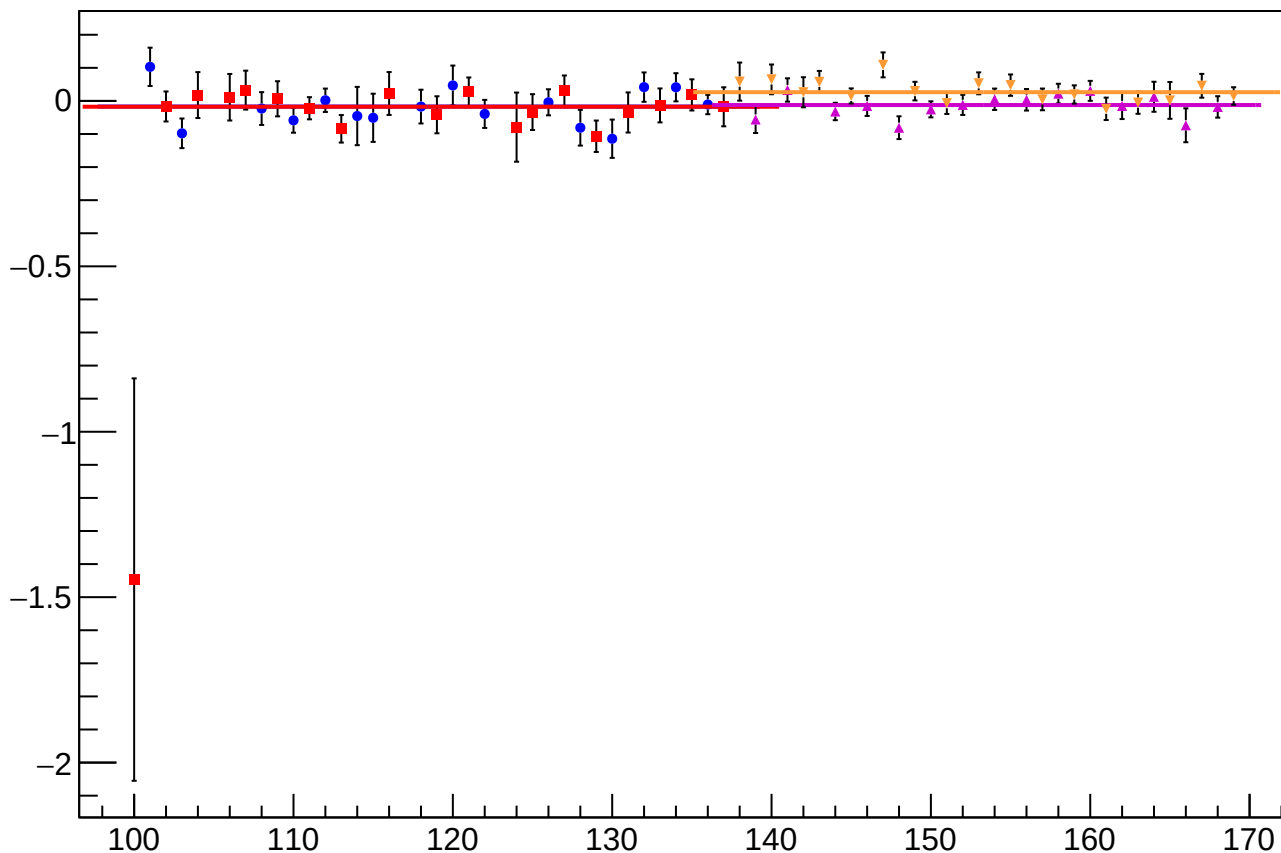
Right: 30.371+/-0.006 χ^2/NDF : 1172478.3/34

In: 28.870+/-0.005 χ^2/NDF : 1000874.9/30

Out: 29.529+/-0.005 χ^2/NDF : 1640563.1/35

All: 29.202+/-0.003 χ^2/NDF : 2651053.1/66

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.017 ± 0.011 χ^2/NDF : 18.8/15

Left Out: 0.026 ± 0.008 χ^2/NDF : 13.4/16

Right Out: -0.018 ± 0.012 χ^2/NDF : 16.8/18

Left In: -0.012 ± 0.008 χ^2/NDF : 13.3/14

Left: 0.008 ± 0.006 χ^2/NDF : 37.8/31

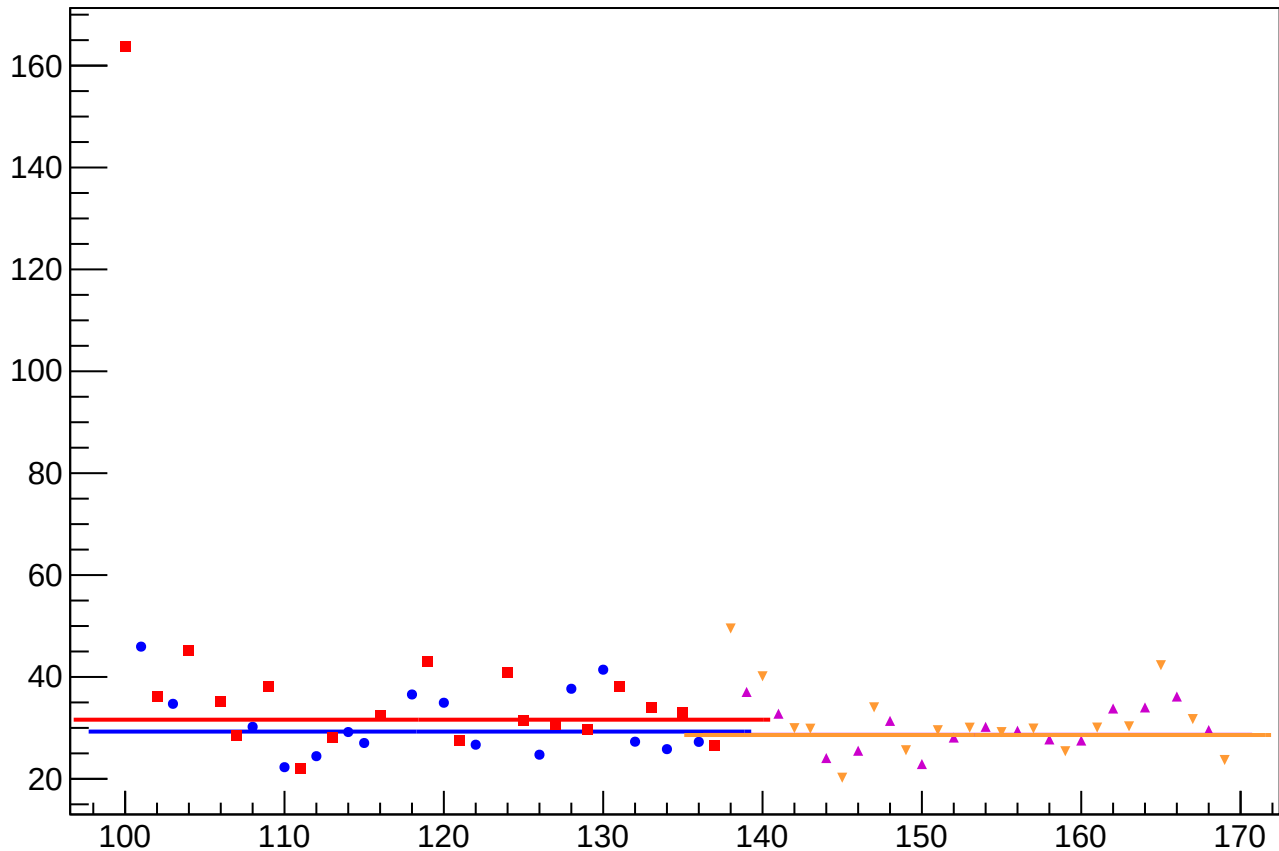
Right: -0.017 ± 0.008 χ^2/NDF : 35.7/34

In: -0.014 ± 0.007 χ^2/NDF : 32.2/30

Out: 0.013 ± 0.007 χ^2/NDF : 39.4/35

All: -0.000 ± 0.005 χ^2/NDF : 79.6/66

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.278 $\pm$ 0.008 χ^2/NDF : 560654.9/15

Left Out: 28.606 $\pm$ 0.006 χ^2/NDF : 982754.8/16

Right Out: 31.613 $\pm$ 0.009 χ^2/NDF : 572190.6/18

Left In: 28.645 $\pm$ 0.006 χ^2/NDF : 436197.2/14

Left: 28.625 $\pm$ 0.004 χ^2/NDF : 1418975.0/31

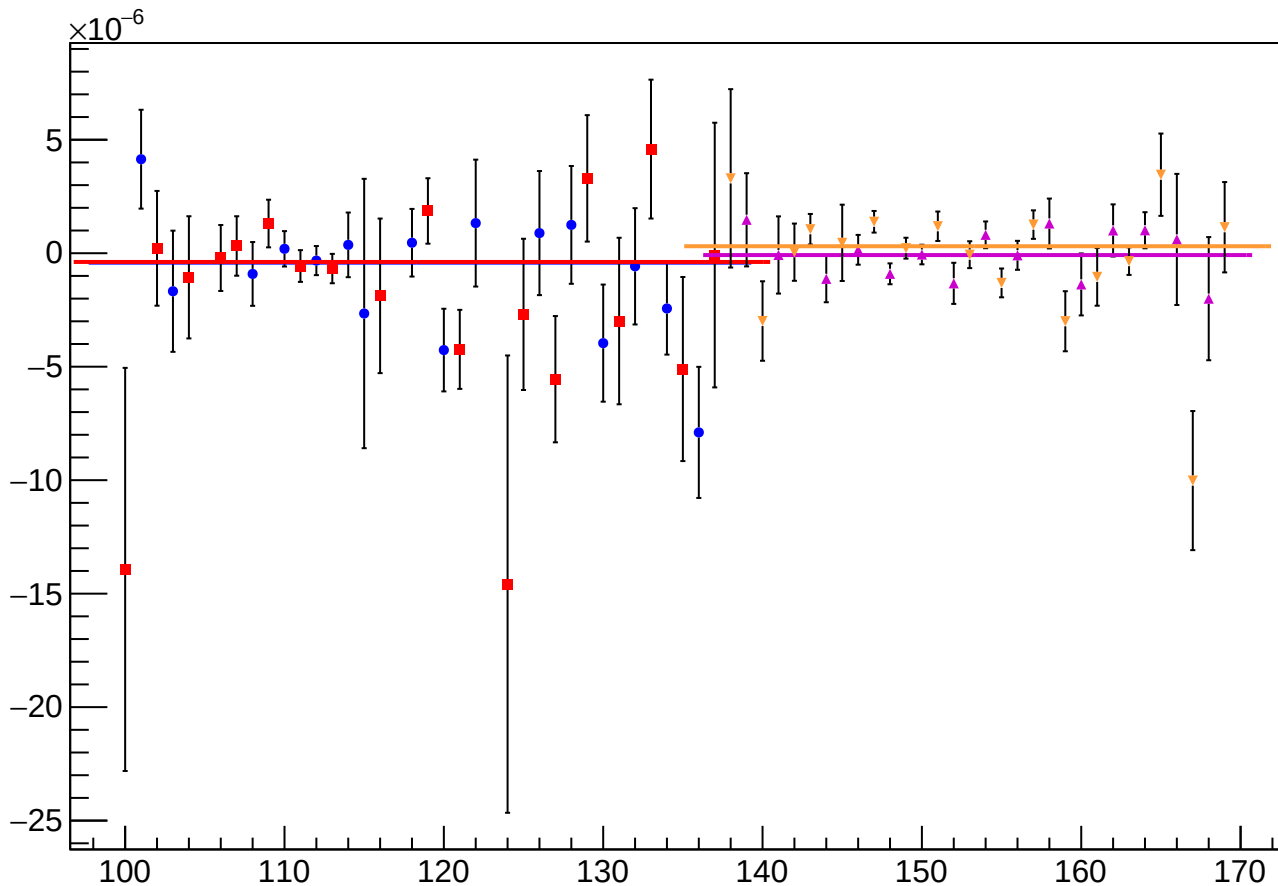
Right: 30.371 $\pm$ 0.006 χ^2/NDF : 1172478.3/34

In: 28.870 $\pm$ 0.005 χ^2/NDF : 1000874.9/30

Out: 29.529 $\pm$ 0.005 χ^2/NDF : 1640563.1/35

All: 29.202 $\pm$ 0.003 χ^2/NDF : 2651053.1/66

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 21.2/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 44.7/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 25.3/18

Left In: -0.000 ± 0.000 χ^2/NDF : 15.0/14

Left: 0.000 ± 0.000 χ^2/NDF : 61.6/31

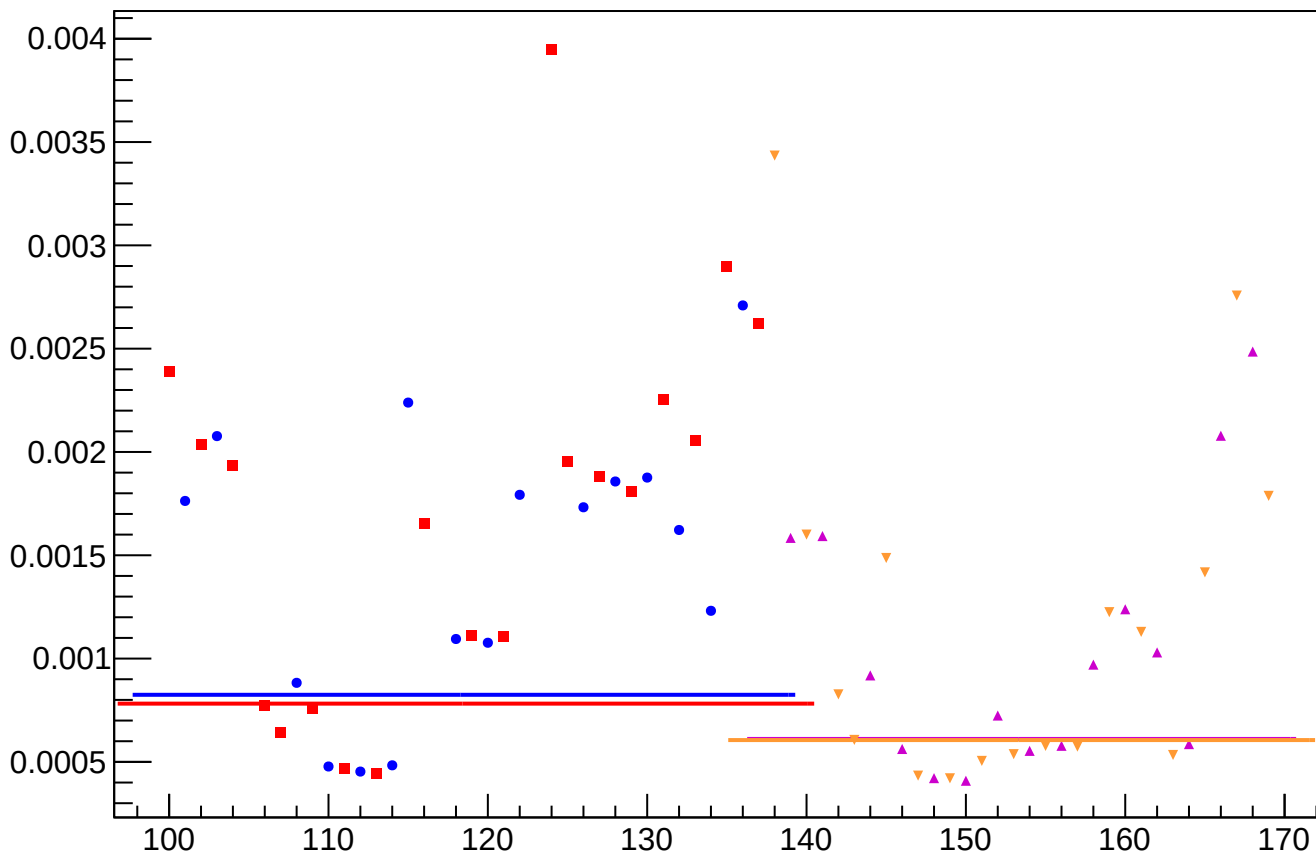
Right: -0.000 ± 0.000 χ^2/NDF : 46.5/34

In: -0.000 ± 0.000 χ^2/NDF : 36.8/30

Out: 0.000 ± 0.000 χ^2/NDF : 73.0/35

All: 0.000 ± 0.000 χ^2/NDF : 111.4/66

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 4448725.9/15

Left Out: 0.001+/-0.000 χ^2/NDF : 5858833.1/16

Right Out: 0.001+/-0.000 χ^2/NDF : 4638419.3/18

Left In: 0.001+/-0.000 χ^2/NDF : 4514936.5/14

Left: 0.001+/-0.000 χ^2/NDF : 10374542.7/31

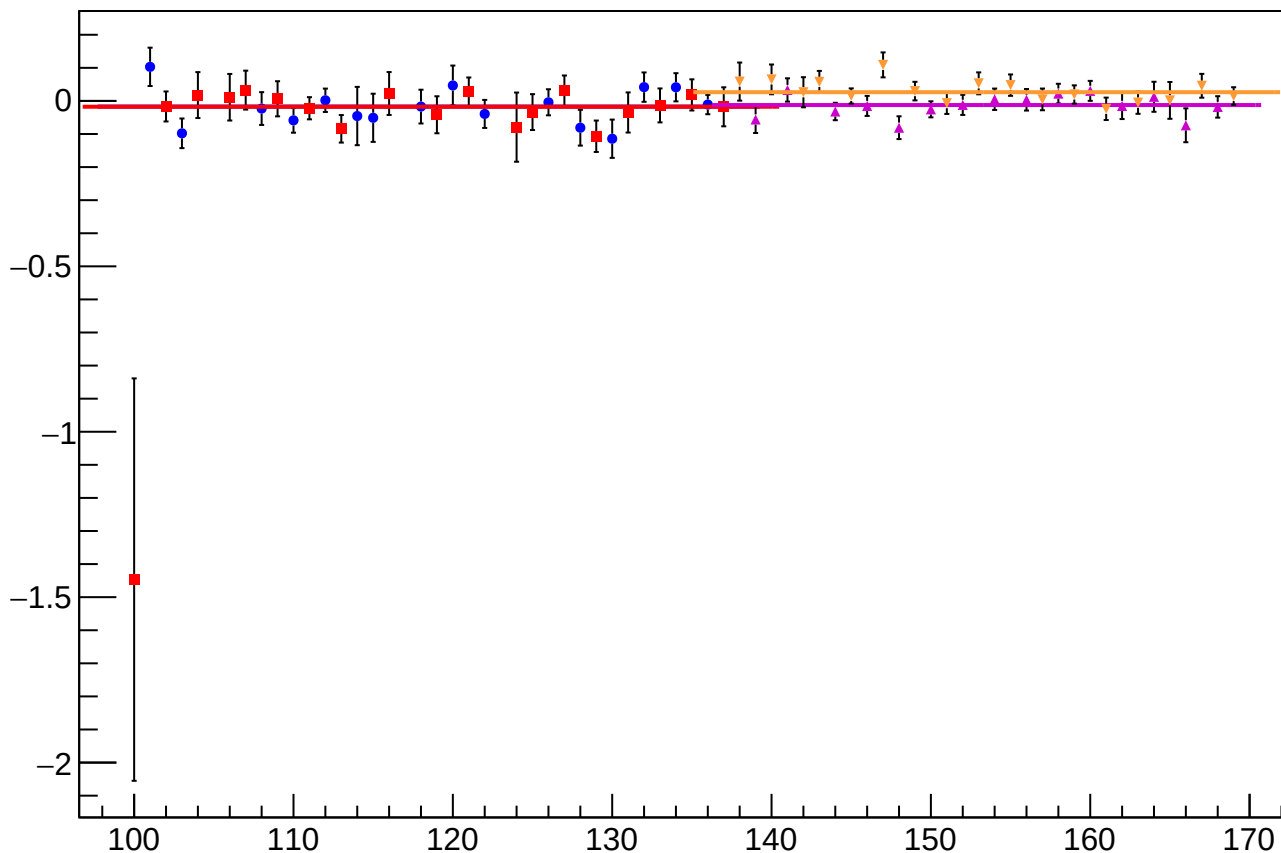
Right: 0.001+/-0.000 χ^2/NDF : 9101271.0/34

In: 0.001+/-0.000 χ^2/NDF : 9475958.5/30

Out: 0.001+/-0.000 χ^2/NDF : 10891448.5/35

All: 0.001+/-0.000 χ^2/NDF : 20373907.9/66

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.017 ± 0.011 χ^2/NDF : 18.8/15

Left Out: 0.026 ± 0.008 χ^2/NDF : 13.4/16

Right Out: -0.018 ± 0.012 χ^2/NDF : 16.8/18

Left In: -0.012 ± 0.008 χ^2/NDF : 13.3/14

Left: 0.008 ± 0.006 χ^2/NDF : 37.8/31

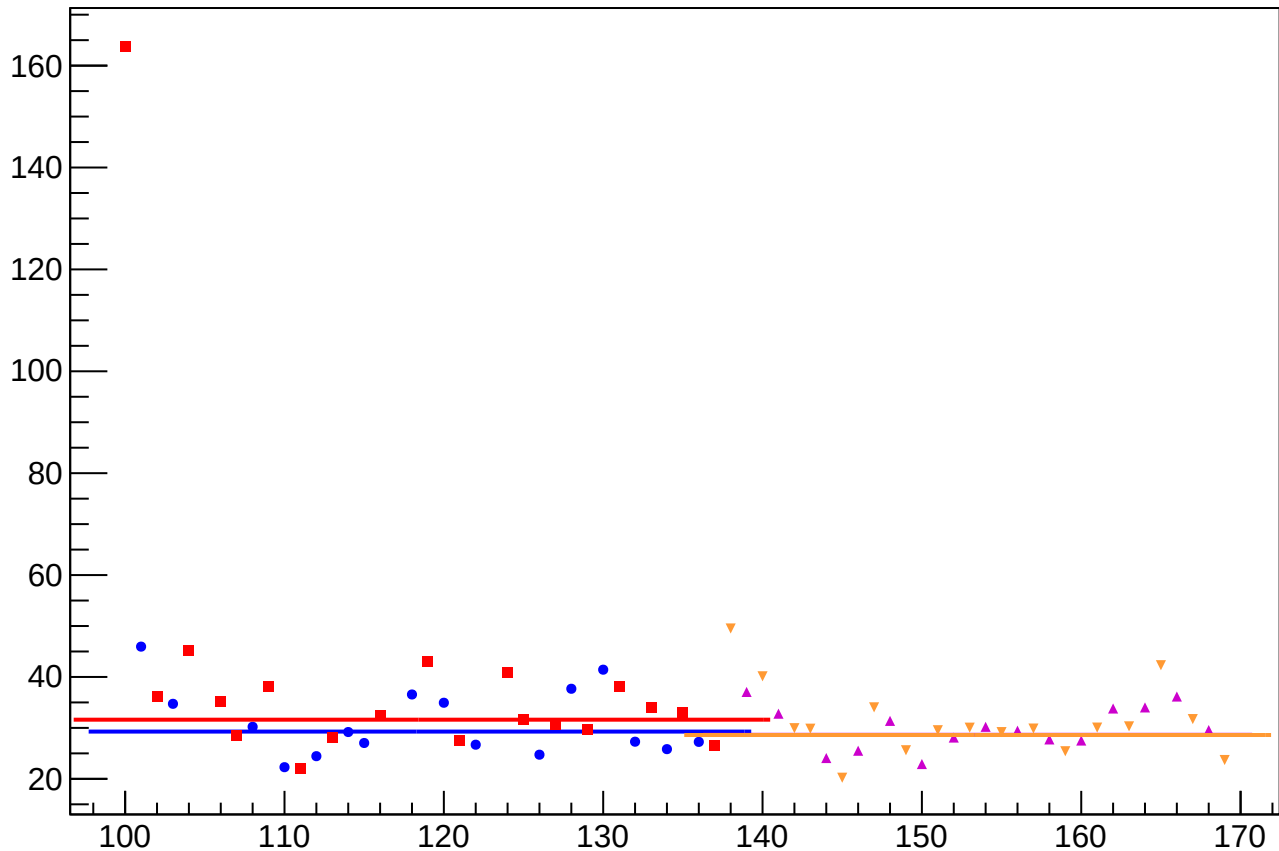
Right: -0.017 ± 0.008 χ^2/NDF : 35.7/34

In: -0.014 ± 0.007 χ^2/NDF : 32.2/30

Out: 0.013 ± 0.007 χ^2/NDF : 39.4/35

All: -0.000 ± 0.005 χ^2/NDF : 79.6/66

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.278 $\pm$ 0.008 χ^2 /NDF: 560654.1/15

Left Out: 28.605 $\pm$ 0.006 χ^2 /NDF: 982828.7/16

Right Out: 31.614 $\pm$ 0.009 χ^2 /NDF: 572187.4/18

Left In: 28.645 $\pm$ 0.006 χ^2 /NDF: 436158.8/14

Left: 28.624 $\pm$ 0.004 χ^2 /NDF: 1419010.8/31

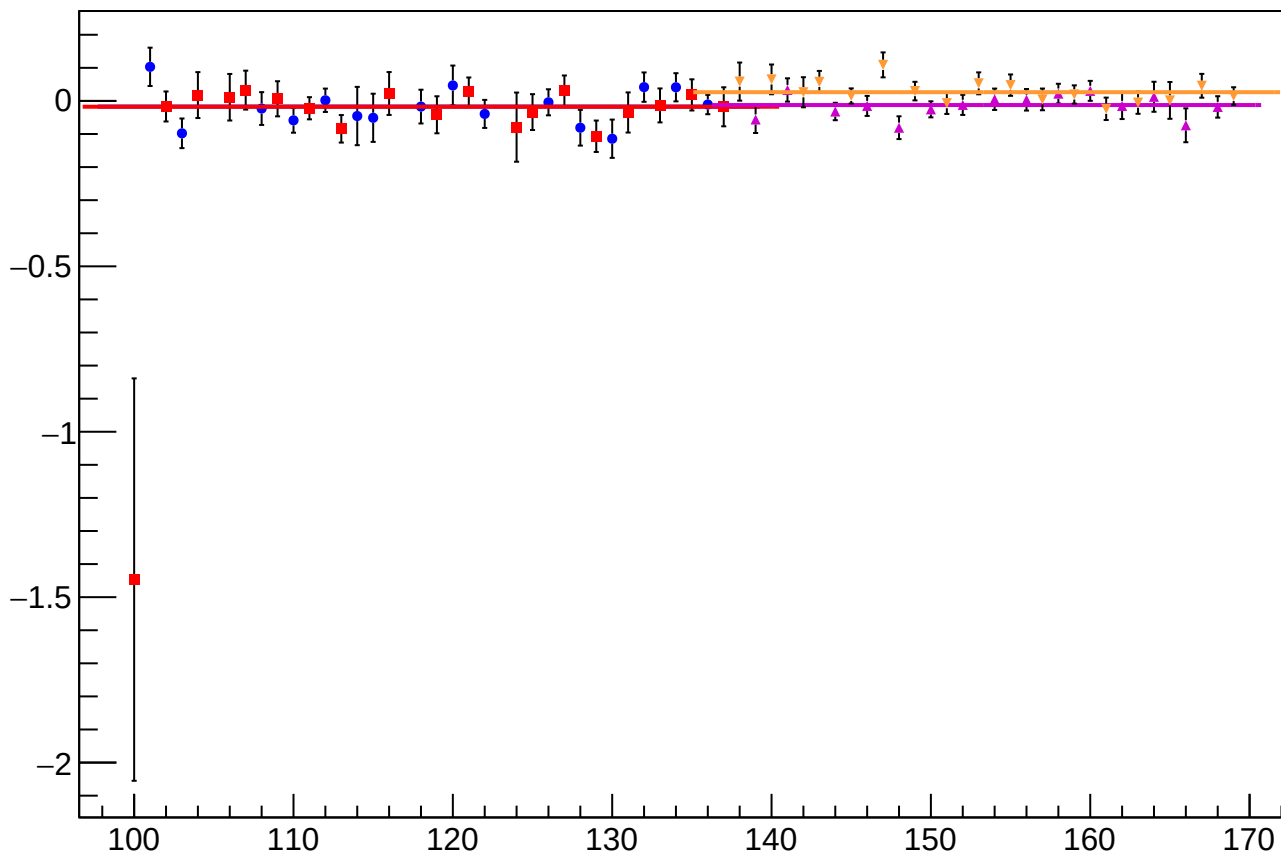
Right: 30.371 $\pm$ 0.006 χ^2 /NDF: 1172478.0/34

In: 28.870 $\pm$ 0.005 χ^2 /NDF: 1000838.3/30

Out: 29.529 $\pm$ 0.005 χ^2 /NDF: 1640663.4/35

All: 29.202 $\pm$ 0.003 χ^2 /NDF: 2651113.2/66

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.017 ± 0.011 χ^2/NDF : 18.8/15

Left Out: 0.026 ± 0.008 χ^2/NDF : 13.4/16

Right Out: -0.018 ± 0.012 χ^2/NDF : 16.8/18

Left In: -0.012 ± 0.008 χ^2/NDF : 13.3/14

Left: 0.008 ± 0.006 χ^2/NDF : 37.8/31

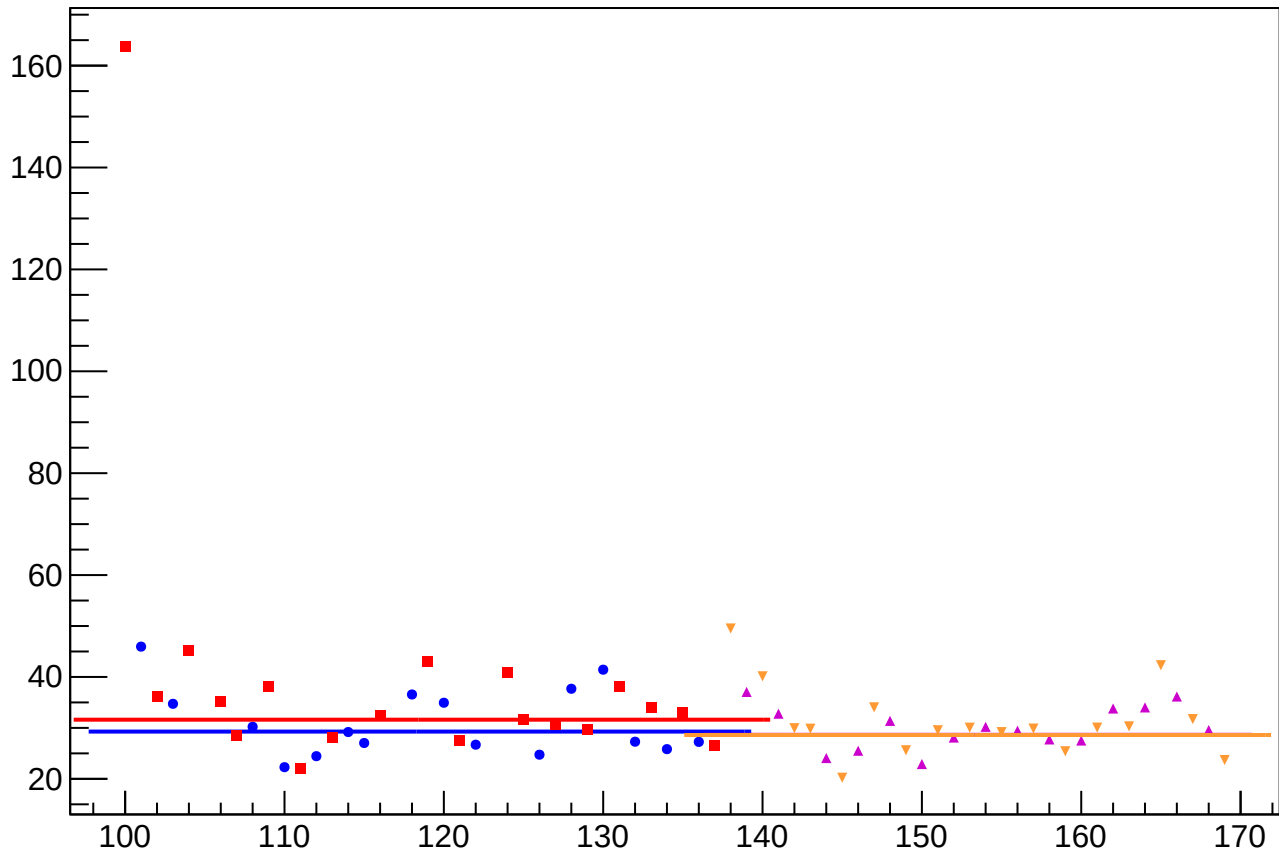
Right: -0.017 ± 0.008 χ^2/NDF : 35.7/34

In: -0.014 ± 0.007 χ^2/NDF : 32.2/30

Out: 0.013 ± 0.007 χ^2/NDF : 39.4/35

All: -0.000 ± 0.005 χ^2/NDF : 79.6/66

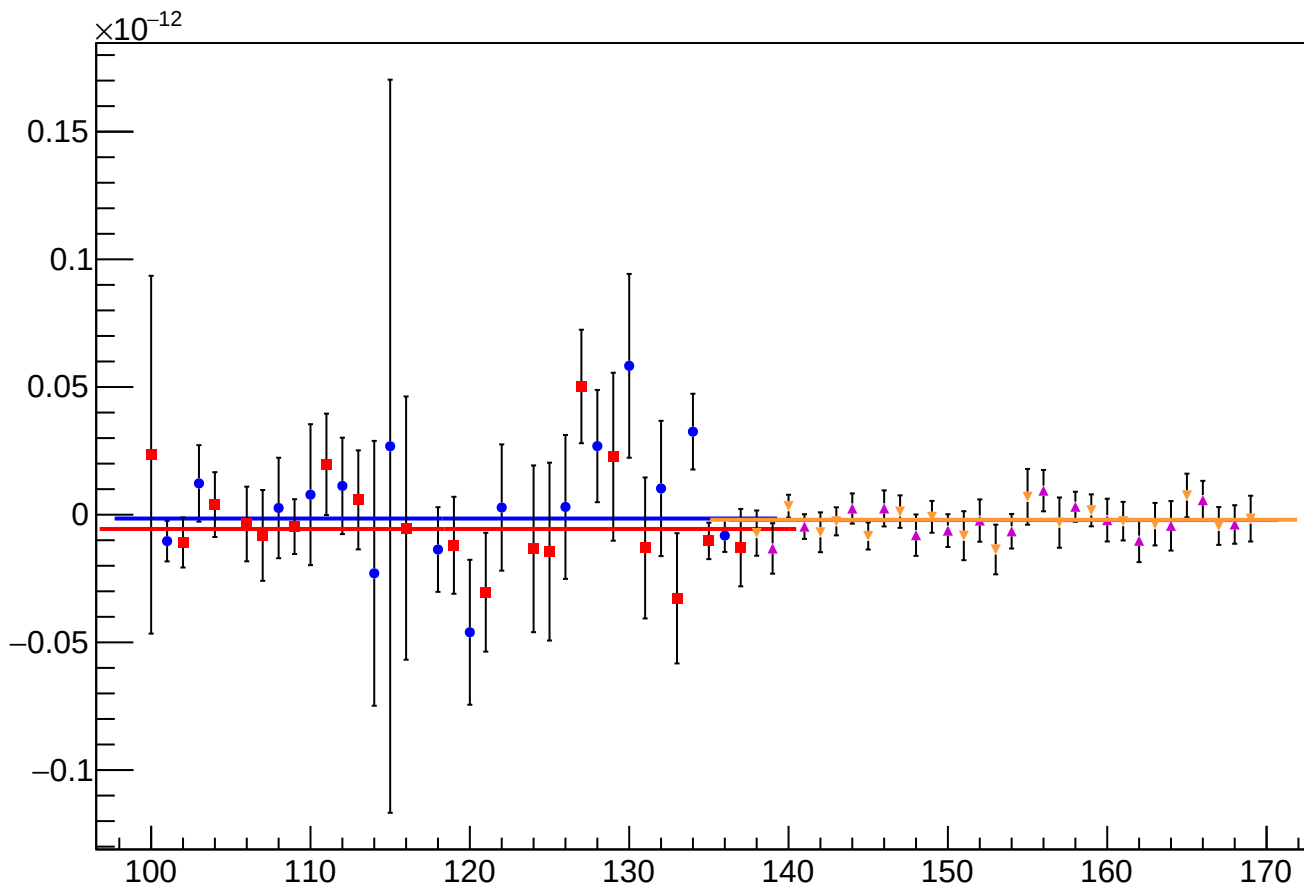
asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 29.278 $\pm$ 0.008 χ^2 /NDF: 560654.1/15
 Left Out: 28.605 $\pm$ 0.006 χ^2 /NDF:982828.7/16
 Right Out: 31.614 $\pm$ 0.009 χ^2 /NDF: 572187.4/18
 Left In: 28.645 $\pm$ 0.006 χ^2 /NDF:436158.8/14

Left: 28.624 $\pm$ 0.004 χ^2 /NDF: 1419010.8/31
 Right: 30.371 $\pm$ 0.006 χ^2 /NDF: 1172478.0/34
 In: 28.870 $\pm$ 0.005 χ^2 /NDF:1000838.3/30
 Out: 29.529 $\pm$ 0.005 χ^2 /NDF:1640663.4/35
 All: 29.202 $\pm$ 0.003 χ^2 /NDF: 2651113.2/66

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 16.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 8.1/16

Right Out: -0.000+/-0.000 χ^2/NDF : 13.3/18

Left In: -0.000+/-0.000 χ^2/NDF : 8.8/14

Left: -0.000+/-0.000 χ^2/NDF : 17.0/31

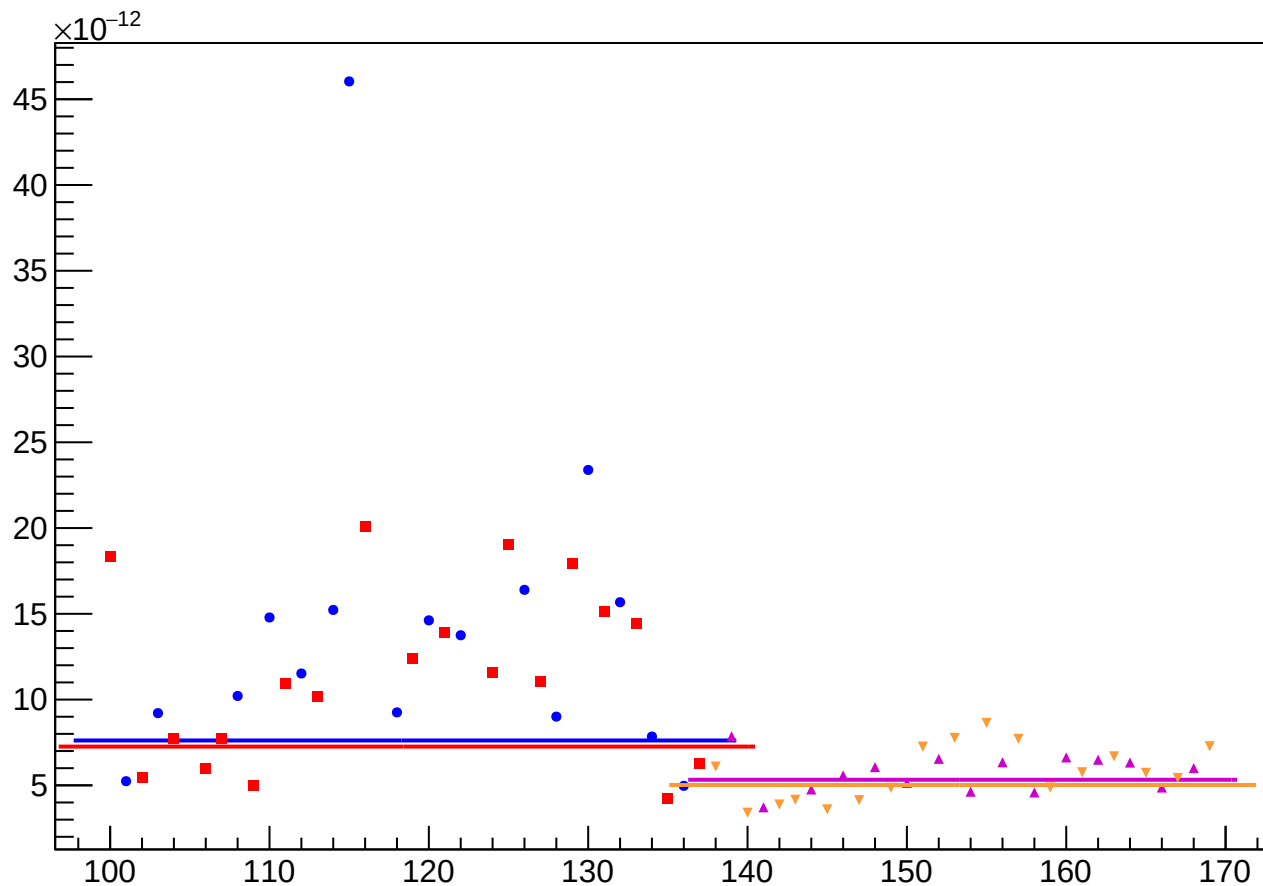
Right: -0.000+/-0.000 χ^2/NDF : 30.9/34

In: -0.000+/-0.000 χ^2/NDF : 25.8/30

Out: -0.000+/-0.000 χ^2/NDF : 22.3/35

All: -0.000+/-0.000 χ^2/NDF : 48.2/66

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2021305.7/15

Left Out: 0.000+/-0.000 χ^2/NDF :1448847.2/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1998231.7/18

Left In: 0.000+/-0.000 χ^2/NDF :651680.5/14

Left: 0.000+/-0.000 χ^2/NDF : 2129907.2/31

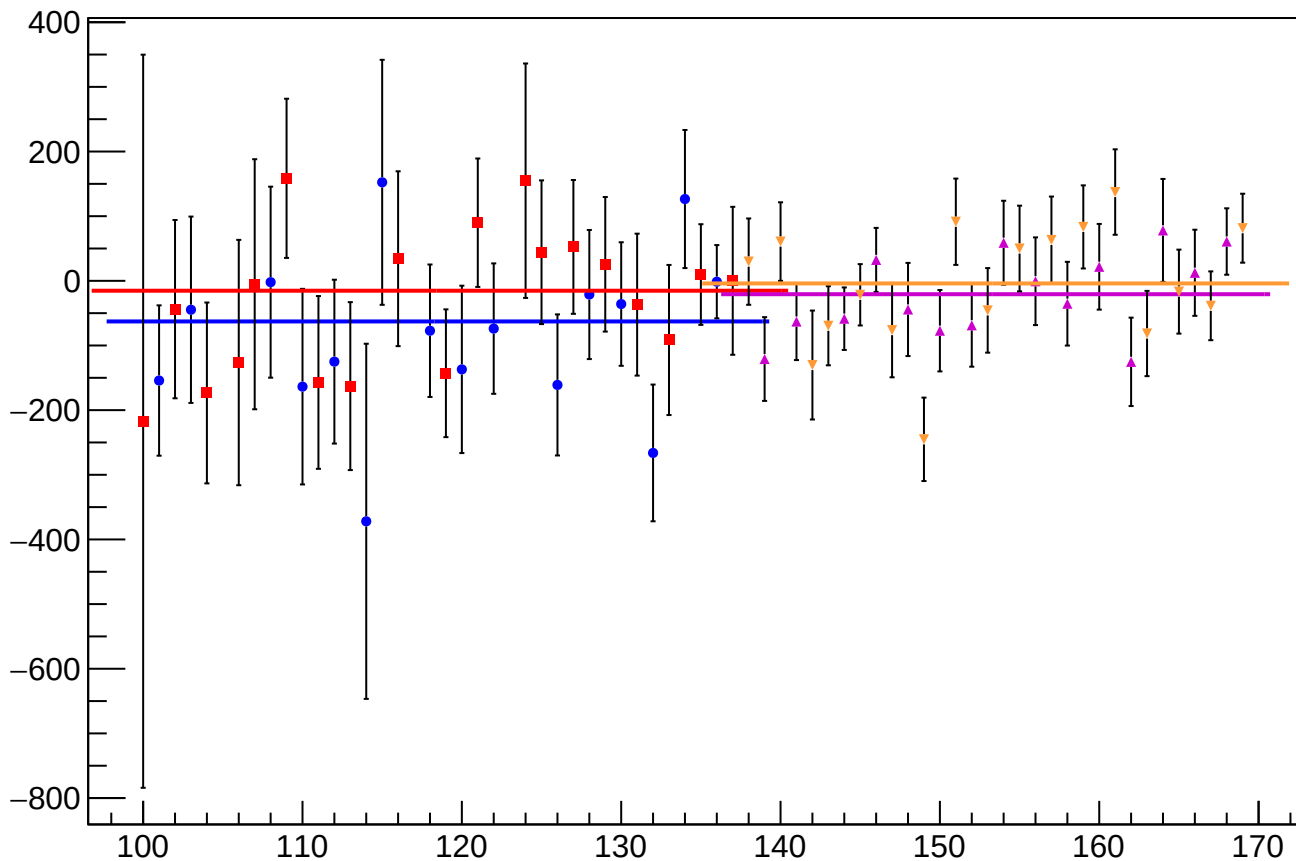
Right: 0.000+/-0.000 χ^2/NDF : 4028618.6/34

In: 0.000+/-0.000 χ^2/NDF :3256245.5/30

Out: 0.000+/-0.000 χ^2/NDF :4063585.8/35

All: 0.000+/-0.000 χ^2/NDF : 7361991.7/66

reg_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -62.798 ± 27.213 χ^2/NDF : 13.5/15

Left Out: -4.031 ± 15.203 χ^2/NDF : 34.8/16

Right Out: -15.288 ± 27.770 χ^2/NDF : 11.5/18

Left In: -20.689 ± 15.929 χ^2/NDF : 14.8/14

Left: -11.972 ± 10.998 χ^2/NDF : 50.2/31

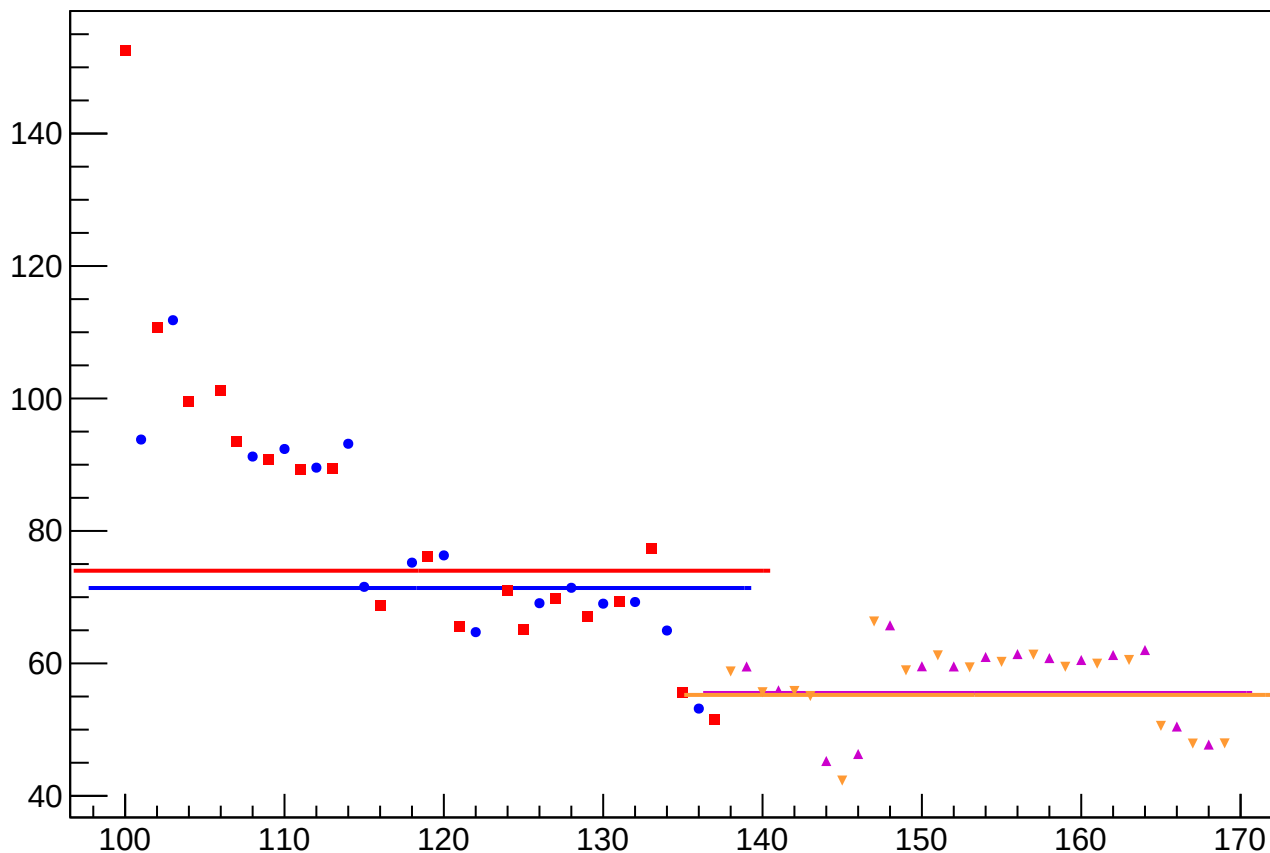
Right: -39.524 ± 19.436 χ^2/NDF : 26.4/34

In: -31.434 ± 13.747 χ^2/NDF : 30.1/30

Out: -6.627 ± 13.336 χ^2/NDF : 46.4/35

All: -18.654 ± 9.572 χ^2/NDF : 78.2/66

reg_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 71.383 $\pm$ 0.019 χ^2 /NDF: 590909.3/15

Left Out: 55.243 $\pm$ 0.011 χ^2 /NDF: 376861.2/16

Right Out: 73.994 $\pm$ 0.020 χ^2 /NDF: 638445.5/18

Left In: 55.535 $\pm$ 0.011 χ^2 /NDF: 361970.5/14

Left: 55.382 $\pm$ 0.008 χ^2 /NDF: 739183.7/31

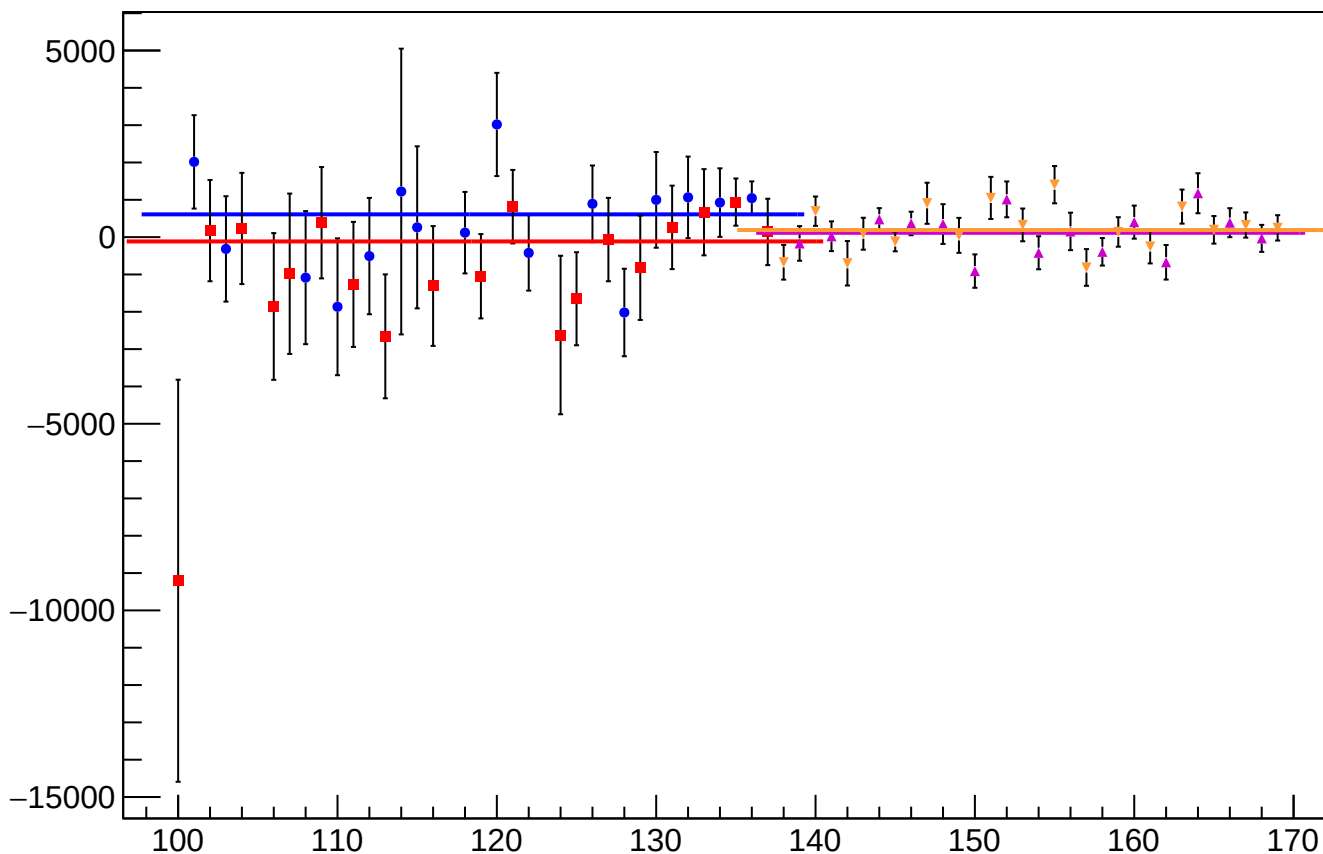
Right: 72.662 $\pm$ 0.014 χ^2 /NDF: 1238370.4/34

In: 59.579 $\pm$ 0.010 χ^2 /NDF: 1458101.1/30

Out: 59.567 $\pm$ 0.009 χ^2 /NDF: 1716865.9/35

All: 59.573 $\pm$ 0.007 χ^2 /NDF: 3174967.8/66

asym_sam_15_26_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 610.561 $\pm$ 266.802 χ^2 /NDF: 15.7/15

Left Out: 189.963 $\pm$ 100.550 χ^2 /NDF:26.1/16

Right Out: -114.633 $\pm$ 284.312 χ^2 /NDF: 15.6/18

Left In: 116.621 $\pm$ 106.024 χ^2 /NDF:22.7/14

Left: 155.234 $\pm$ 72.958 χ^2 /NDF: 49.0/31

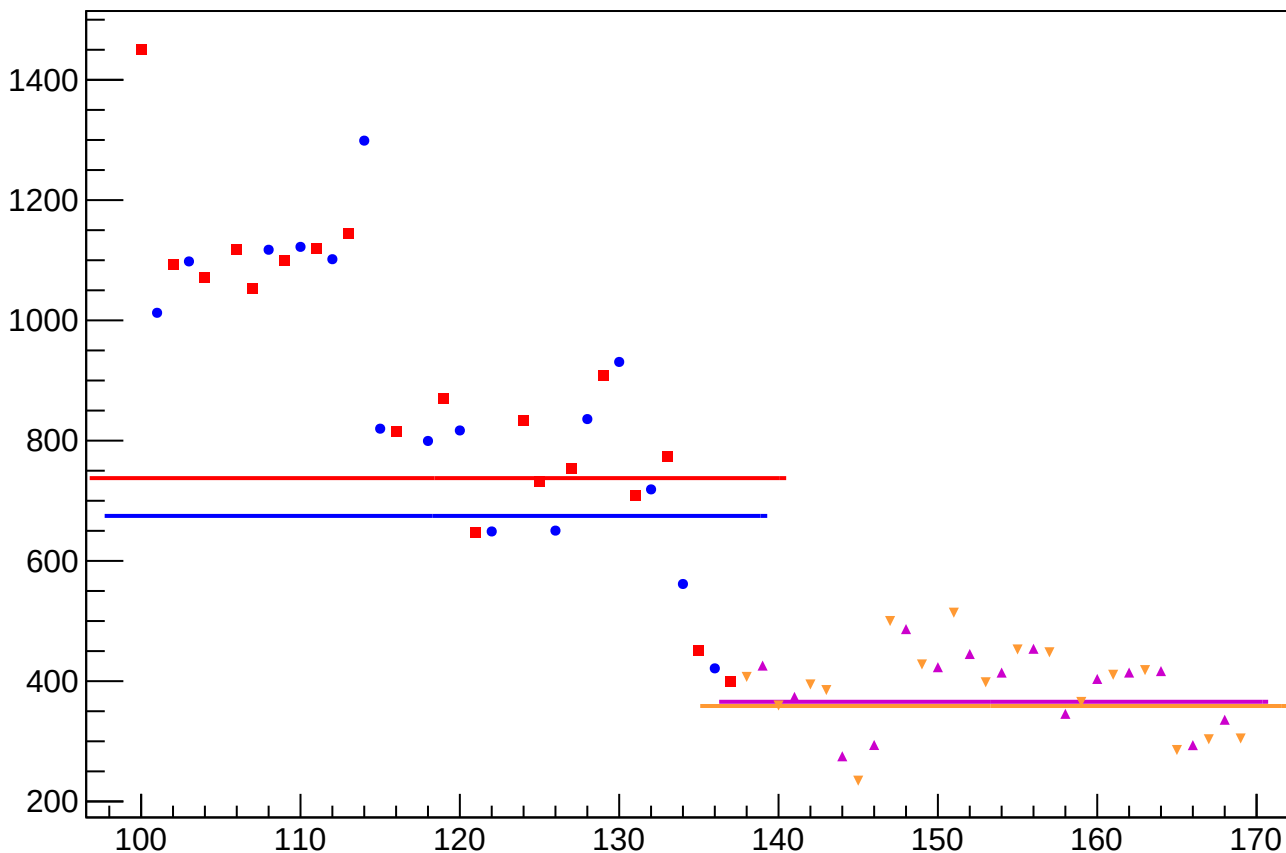
Right: 270.981 $\pm$ 194.553 χ^2 /NDF: 34.7/34

In: 183.985 $\pm$ 98.529 χ^2 /NDF:41.4/30

Out: 156.101 $\pm$ 94.796 χ^2 /NDF:42.6/35

All: 169.505 $\pm$ 68.313 χ^2 /NDF: 84.1/66

asym_sam_15_26_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 674.830+/-0.189 χ^2/NDF : 1617598.7/15

Left Out: 358.708+/-0.071 χ^2/NDF : 1203611.0/16

Right Out: 737.674+/-0.201 χ^2/NDF : 1516748.6/18

Left In: 365.738+/-0.075 χ^2/NDF : 741584.9/14

Left: 362.037+/-0.052 χ^2/NDF : 1949825.1/31

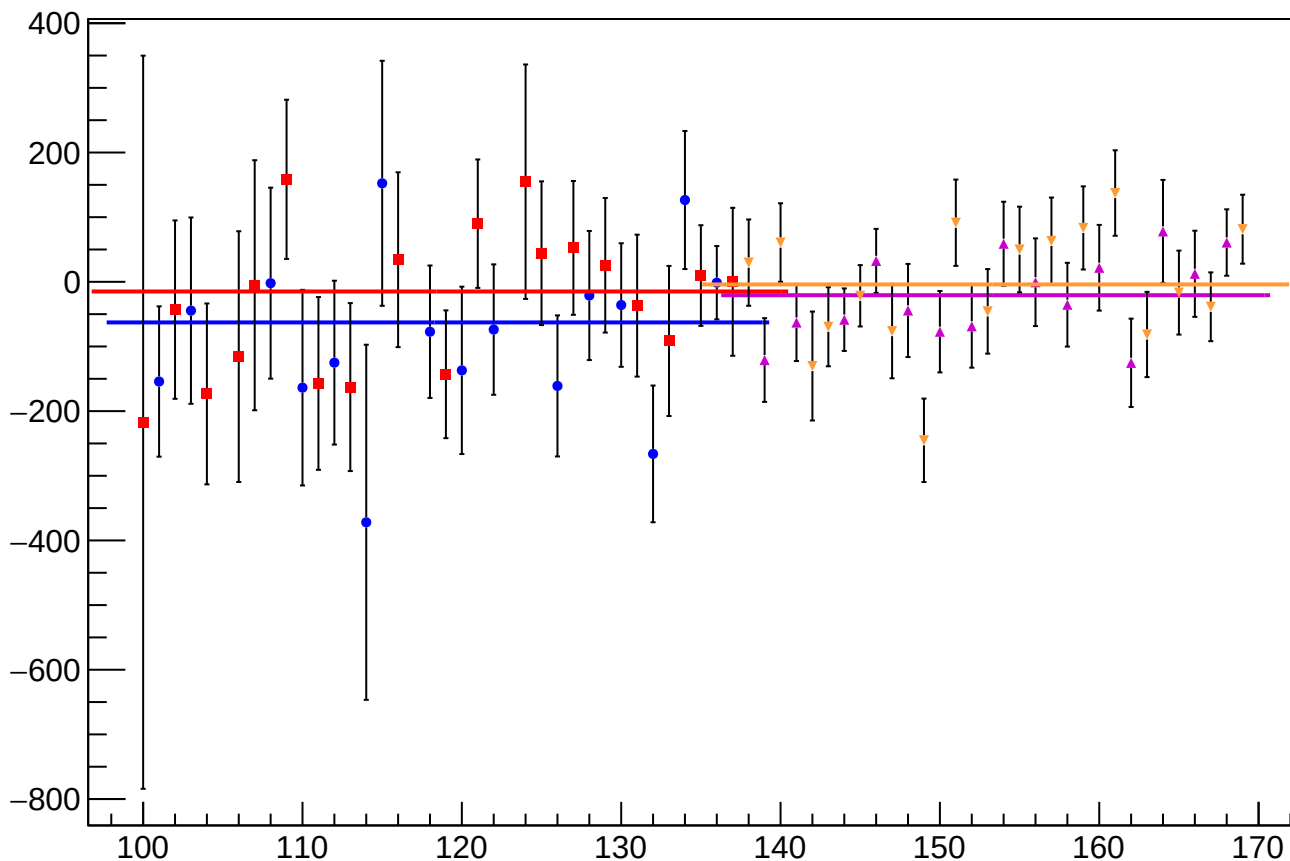
Right: 704.257+/-0.138 χ^2/NDF : 3186306.4/34

In: 407.892+/-0.070 χ^2/NDF : 4677379.0/30

Out: 400.838+/-0.067 χ^2/NDF : 5878697.5/35

All: 404.229+/-0.048 χ^2/NDF : 10561399.7/60

cor_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -62.789 ± 27.213 χ^2/NDF : 13.5/15

Left Out: -4.030 ± 15.203 χ^2/NDF : 34.8/16

Right Out: -14.932 ± 27.783 χ^2/NDF : 11.4/18

Left In: -20.689 ± 15.929 χ^2/NDF : 14.8/14

Left: -11.972 ± 10.998 χ^2/NDF : 50.2/31

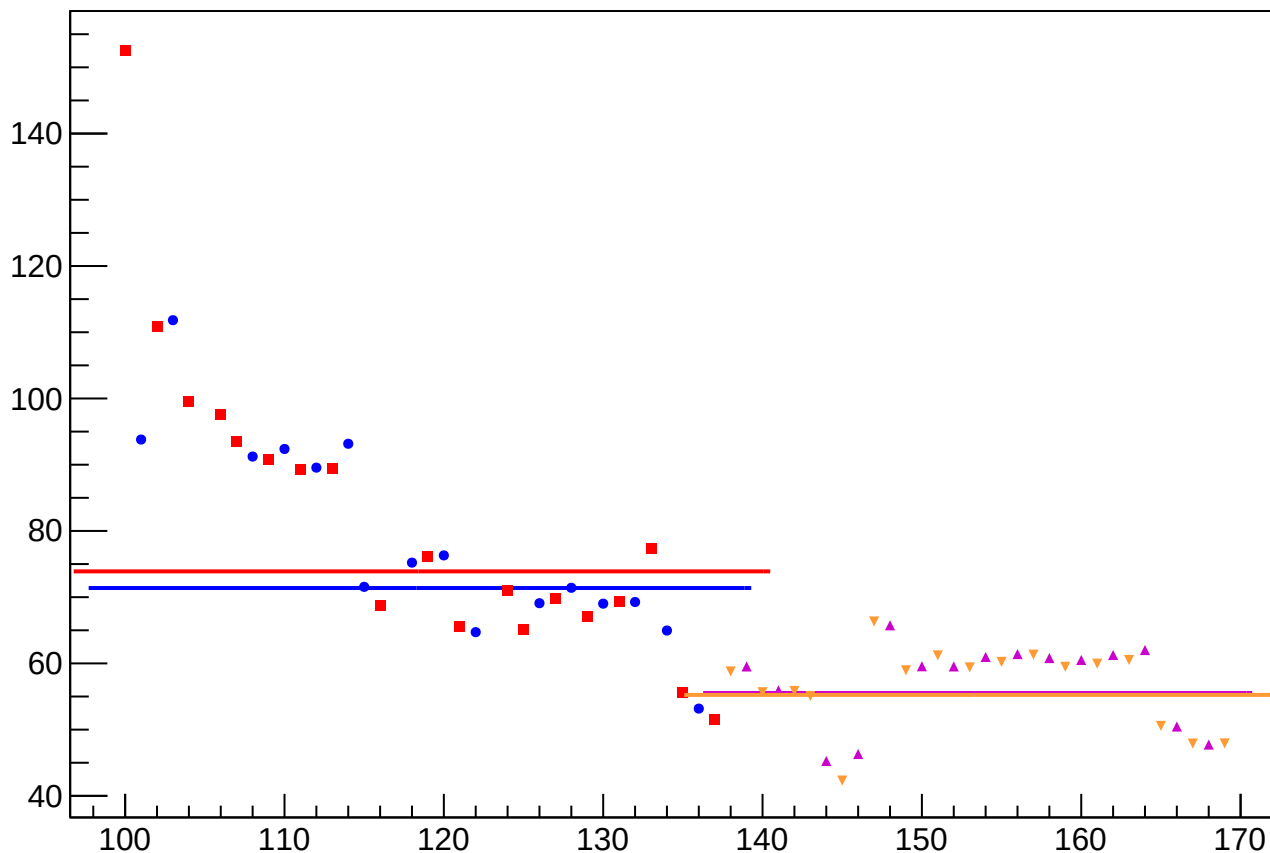
Right: -39.357 ± 19.441 χ^2/NDF : 26.4/34

In: -31.433 ± 13.747 χ^2/NDF : 30.1/30

Out: -6.542 ± 13.337 χ^2/NDF : 46.3/35

All: -18.611 ± 9.572 χ^2/NDF : 78.1/66

cor_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 71.383 $\pm$ 0.019 χ^2 /NDF: 590911.7/15

Left Out: 55.243 $\pm$ 0.011 χ^2 /NDF: 376861.2/16

Right Out: 73.894 $\pm$ 0.020 χ^2 /NDF: 627014.3/18

Left In: 55.535 $\pm$ 0.011 χ^2 /NDF: 361970.5/14

Left: 55.382 $\pm$ 0.008 χ^2 /NDF: 739183.7/31

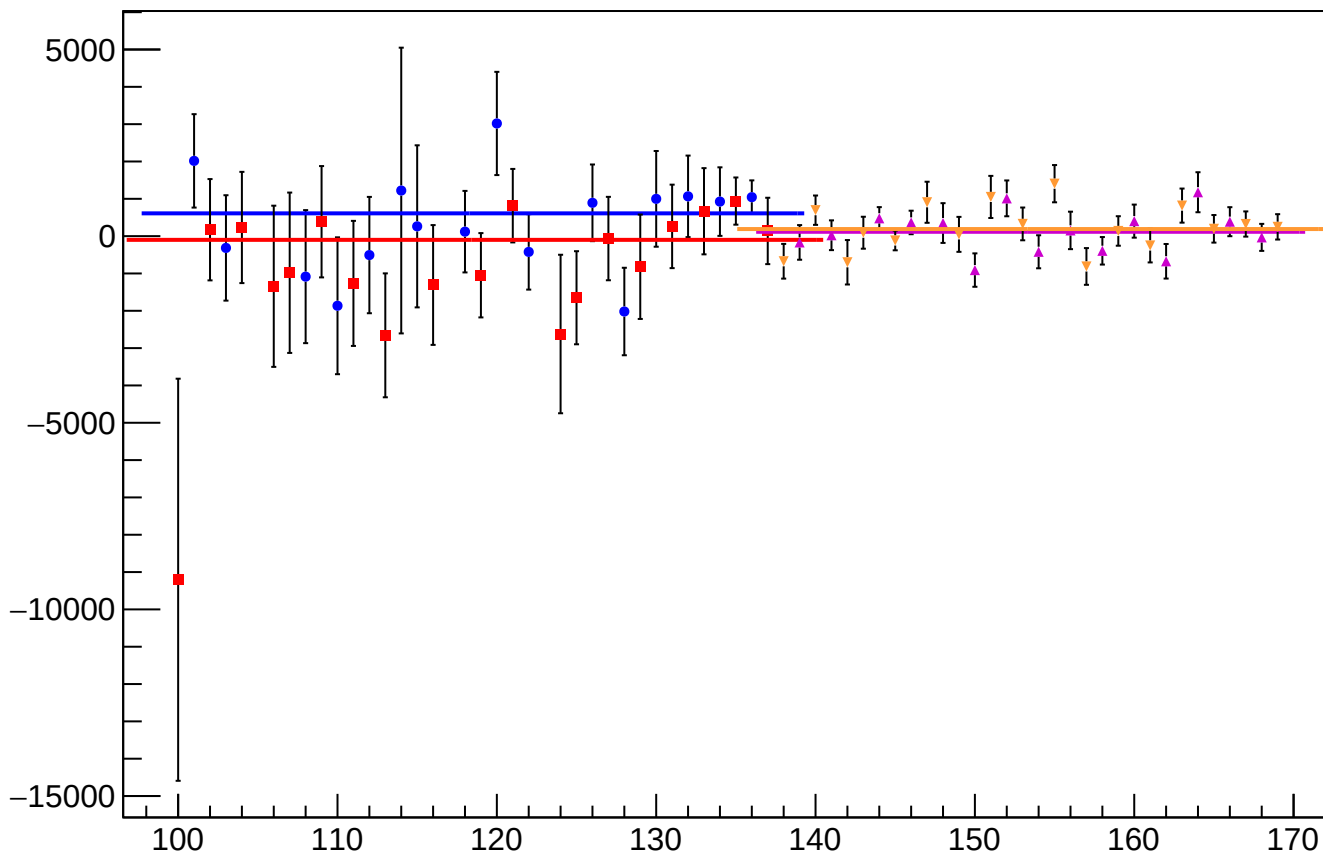
Right: 72.613 $\pm$ 0.014 χ^2 /NDF: 1226261.8/34

In: 59.579 $\pm$ 0.010 χ^2 /NDF: 1458103.7/30

Out: 59.541 $\pm$ 0.009 χ^2 /NDF: 1697481.4/35

All: 59.559 $\pm$ 0.007 χ^2 /NDF: 3155593.2/66

asym_sam_15_26_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 610.549 $\pm$ 266.803 χ^2 /NDF: 15.7/15

Left Out: 189.961 $\pm$ 100.550 χ^2 /NDF:26.1/16

Right Out: -99.555 $\pm$ 284.831 χ^2 /NDF: 15.1/18

Left In: 116.619 $\pm$ 106.024 χ^2 /NDF:22.7/14

Left: 155.232 $\pm$ 72.958 χ^2 /NDF: 49.0/31

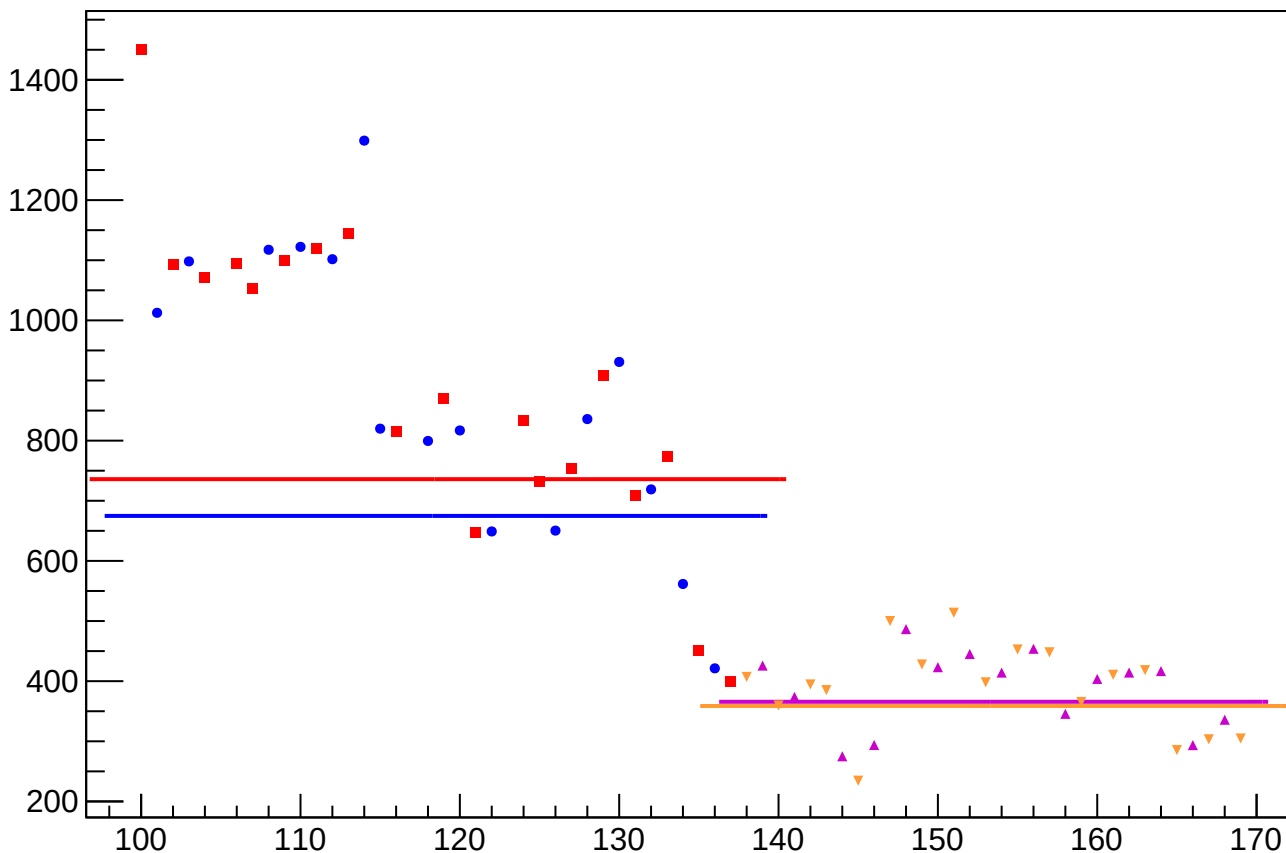
Right: 278.680 $\pm$ 194.720 χ^2 /NDF: 34.1/34

In: 183.981 $\pm$ 98.529 χ^2 /NDF:41.4/30

Out: 157.879 $\pm$ 94.816 χ^2 /NDF:42.1/35

All: 170.429 $\pm$ 68.320 χ^2 /NDF: 83.5/66

asym_sam_15_26_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 674.831+/-0.189 χ^2/NDF : 1617624.1/15

Left Out: 358.708+/-0.071 χ^2/NDF : 1203615.5/16

Right Out: 735.919+/-0.201 χ^2/NDF : 1496977.2/18

Left In: 365.738+/-0.075 χ^2/NDF : 741587.4/14

Left: 362.037+/-0.052 χ^2/NDF : 1949832.4/31

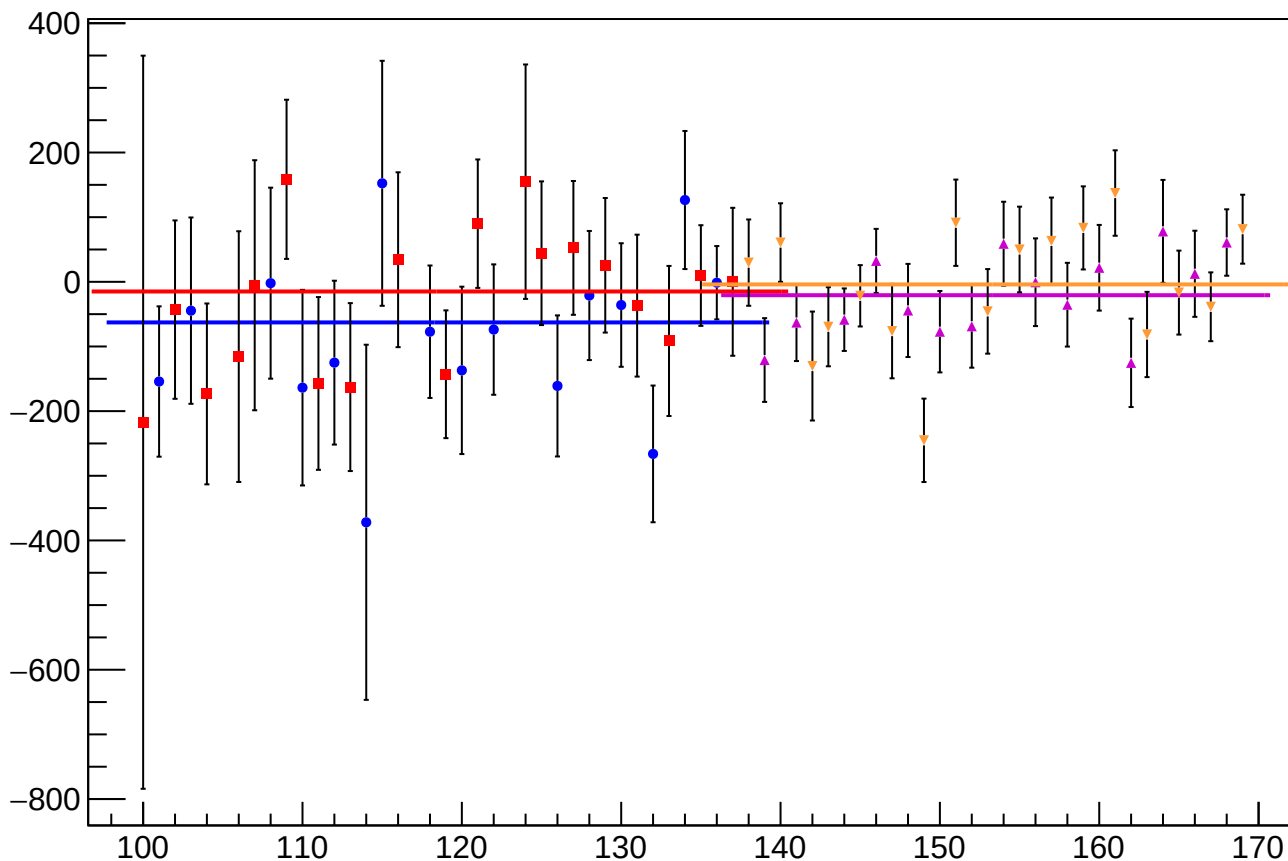
Right: 703.381+/-0.138 χ^2/NDF : 3163603.4/34

In: 407.892+/-0.070 χ^2/NDF : 4677402.2/30

Out: 400.507+/-0.067 χ^2/NDF : 5819616.6/35

All: 404.058+/-0.048 χ^2/NDF : 10502852.3/60

eigen_cor_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -62.789 ± 27.213 $\chi^2/\text{NDF}: 13.5/15$

Left Out: -4.030 ± 15.203 $\chi^2/\text{NDF}: 34.8/16$

Right Out: -14.932 ± 27.783 $\chi^2/\text{NDF}: 11.4/18$

Left In: -20.689 ± 15.929 $\chi^2/\text{NDF}: 14.8/14$

Left: -11.972 ± 10.998 $\chi^2/\text{NDF}: 50.2/31$

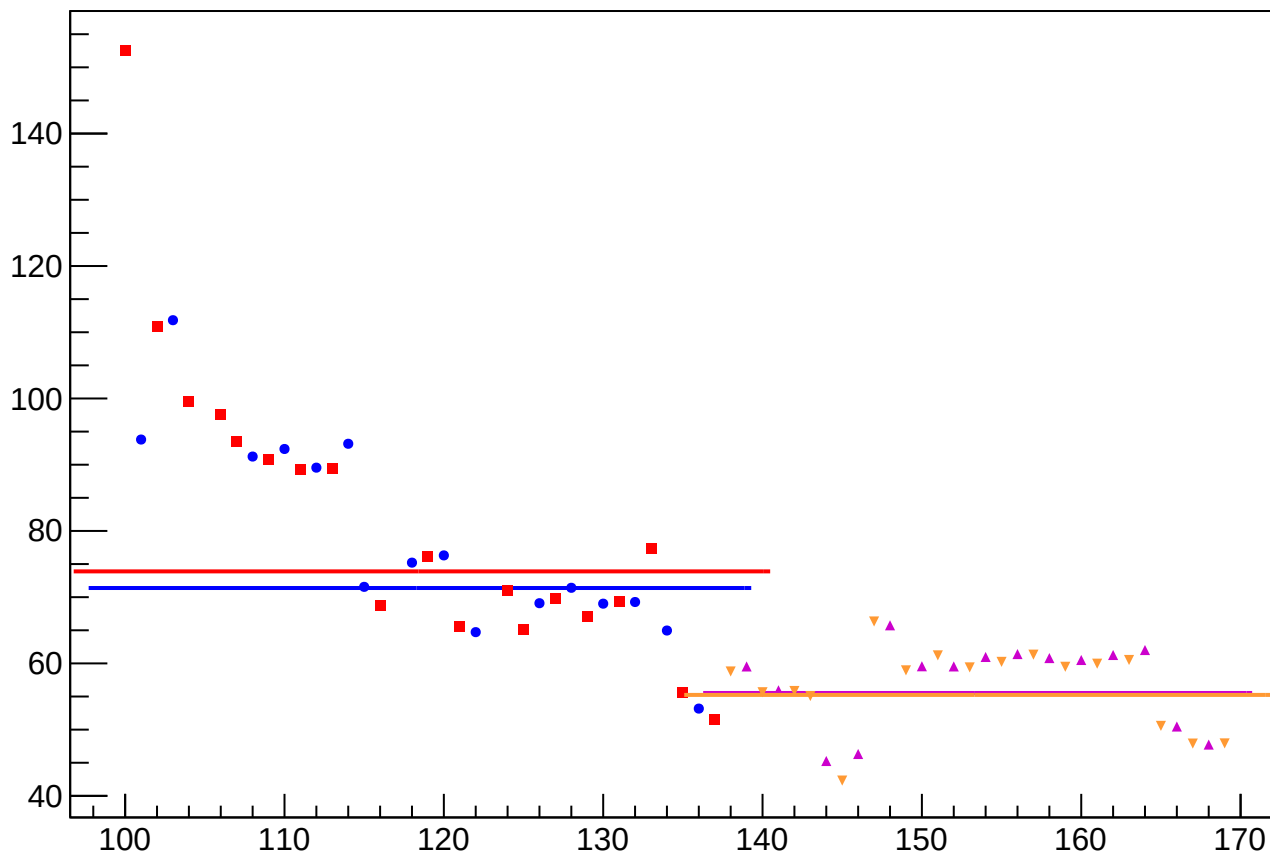
Right: -39.357 ± 19.441 $\chi^2/\text{NDF}: 26.4/34$

In: -31.433 ± 13.747 $\chi^2/\text{NDF}: 30.1/30$

Out: -6.542 ± 13.337 $\chi^2/\text{NDF}: 46.3/35$

All: -18.611 ± 9.572 $\chi^2/\text{NDF}: 78.1/66$

eigen_cor_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 71.383 $\pm$ 0.019 χ^2 /NDF: 590911.7/15

Left Out: 55.243 $\pm$ 0.011 χ^2 /NDF: 376861.2/16

Right Out: 73.894 $\pm$ 0.020 χ^2 /NDF: 627014.3/18

Left In: 55.535 $\pm$ 0.011 χ^2 /NDF: 361970.5/14

Left: 55.382 $\pm$ 0.008 χ^2 /NDF: 739183.7/31

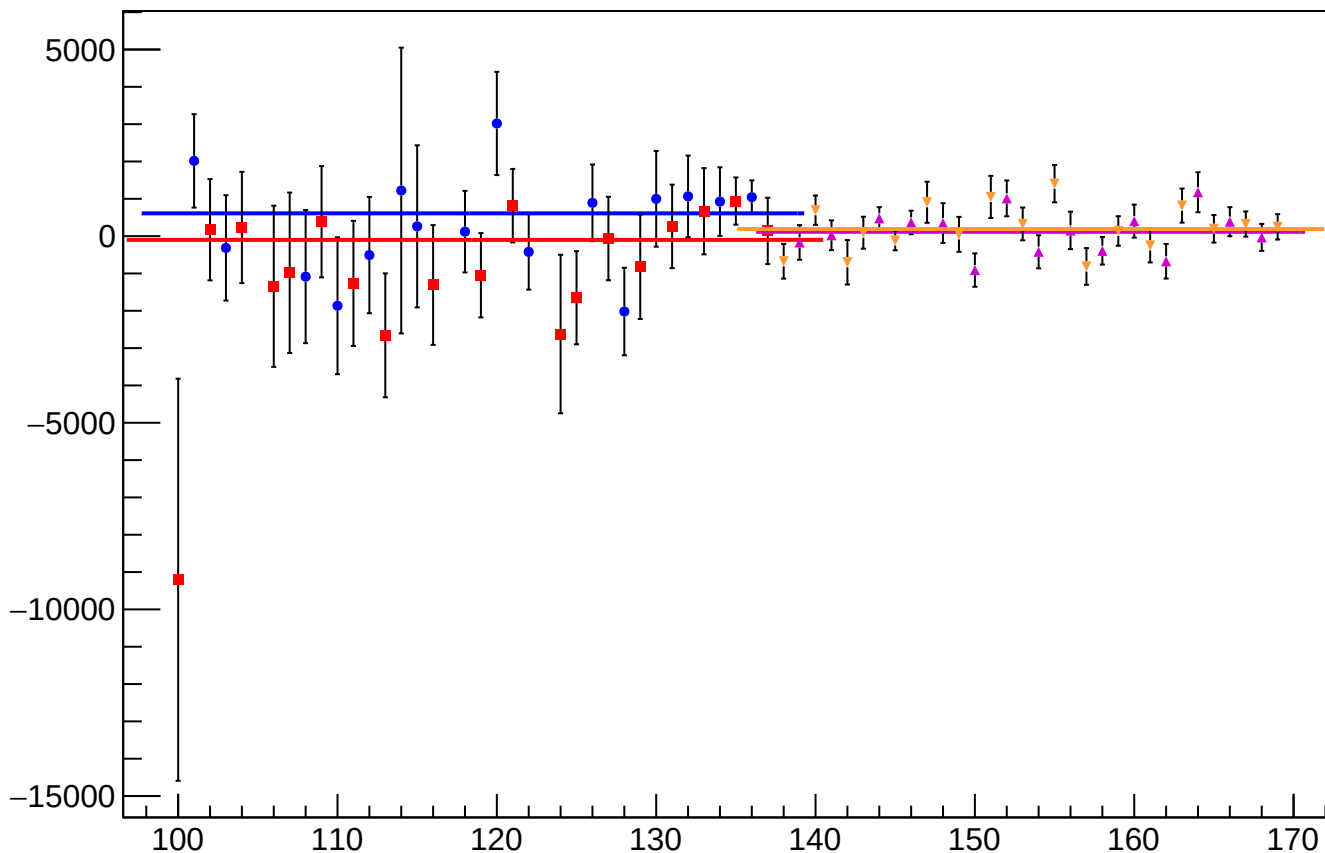
Right: 72.613 $\pm$ 0.014 χ^2 /NDF: 1226261.8/34

In: 59.579 $\pm$ 0.010 χ^2 /NDF: 1458103.7/30

Out: 59.541 $\pm$ 0.009 χ^2 /NDF: 1697481.4/35

All: 59.559 $\pm$ 0.007 χ^2 /NDF: 3155593.2/66

asym_sam_15_26_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 610.549 $\pm$ 266.803 χ^2 /NDF: 15.7/15

Left Out: 189.961 $\pm$ 100.550 χ^2 /NDF:26.1/16

Right Out: -99.555 $\pm$ 284.831 χ^2 /NDF: 15.1/18

Left In: 116.619 $\pm$ 106.024 χ^2 /NDF:22.7/14

Left: 155.232 $\pm$ 72.958 χ^2 /NDF: 49.0/31

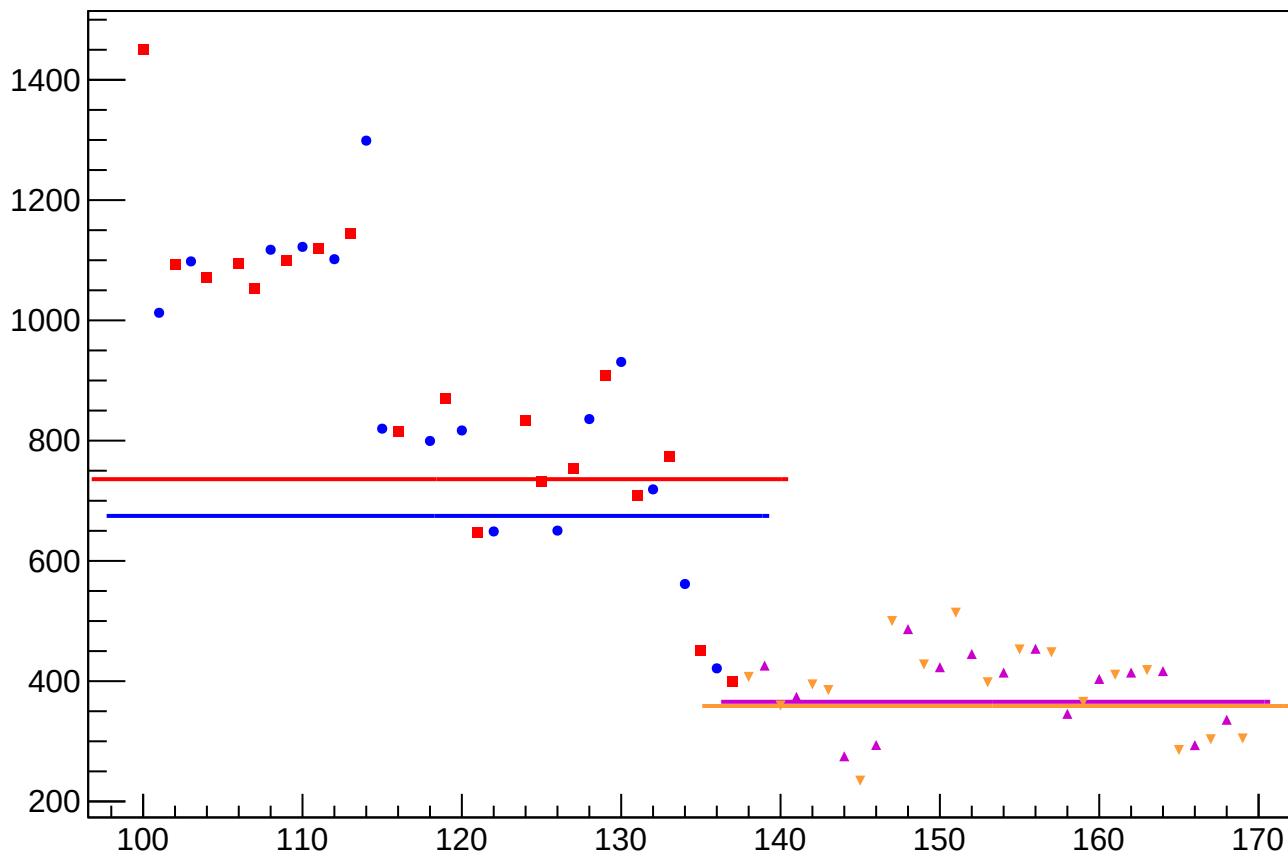
Right: 278.680 $\pm$ 194.720 χ^2 /NDF: 34.1/34

In: 183.981 $\pm$ 98.529 χ^2 /NDF:41.4/30

Out: 157.879 $\pm$ 94.816 χ^2 /NDF:42.1/35

All: 170.429 $\pm$ 68.320 χ^2 /NDF: 83.5/66

asym_sam_15_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 674.831 $\pm$ 0.189 χ^2 /NDF: 1617624.1/15

Left Out: 358.708 $\pm$ 0.071 χ^2 /NDF: 1203615.5/16

Right Out: 735.919 $\pm$ 0.201 χ^2 /NDF: 1496977.2/18

Left In: 365.738 $\pm$ 0.075 χ^2 /NDF: 741587.4/14

Left: 362.037 $\pm$ 0.052 χ^2 /NDF: 1949832.4/31

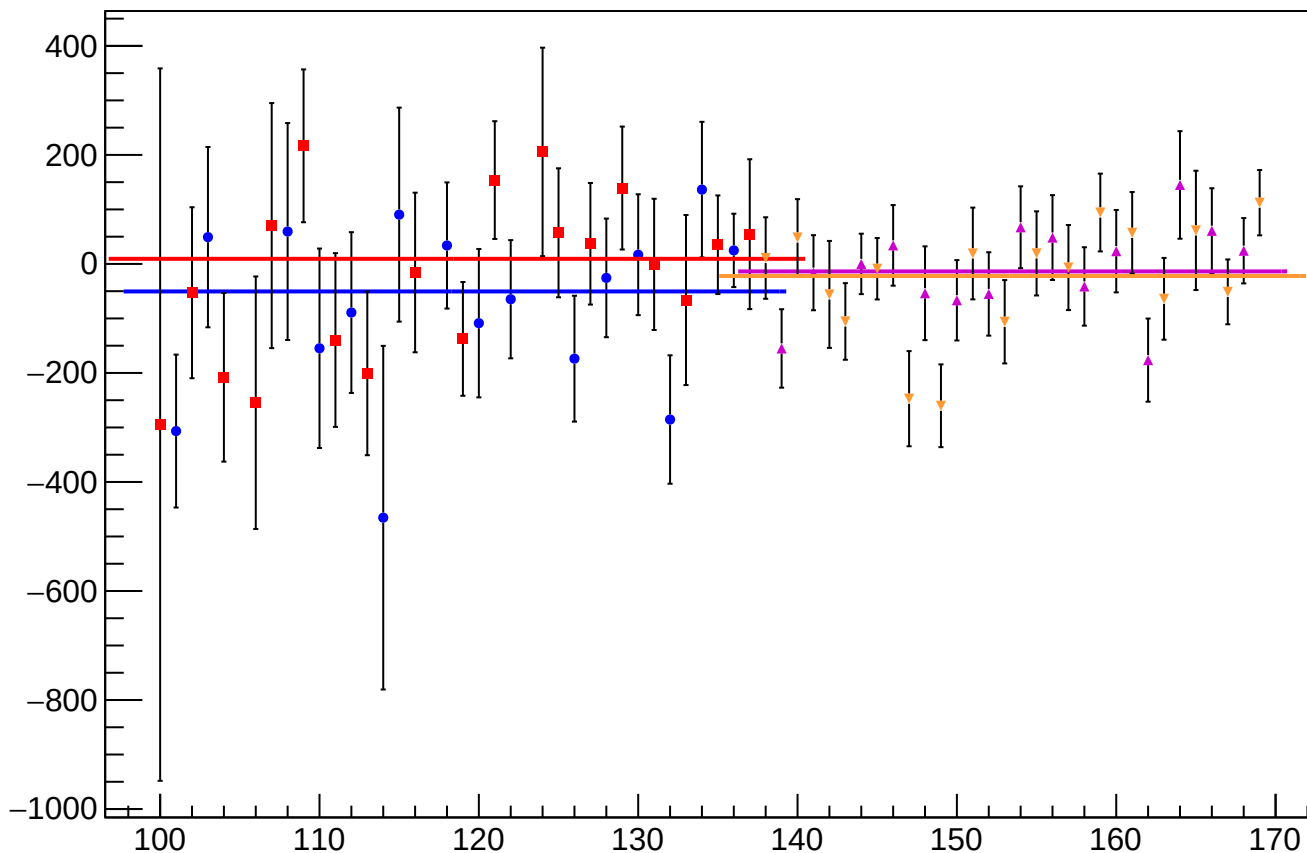
Right: 703.381 $\pm$ 0.138 χ^2 /NDF: 3163603.4/34

In: 407.892 $\pm$ 0.070 χ^2 /NDF: 4677402.2/30

Out: 400.507 $\pm$ 0.067 χ^2 /NDF: 5819616.6/35

All: 404.058 $\pm$ 0.048 χ^2 /NDF: 10502852.3/66

dit_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -50.465 ± 31.061 χ^2/NDF : 16.4/15

Left Out: -22.191 ± 17.823 χ^2/NDF : 31.0/16

Right Out: 9.380 ± 31.235 χ^2/NDF : 15.6/18

Left In: -13.704 ± 18.798 χ^2/NDF : 16.0/14

Left: -18.173 ± 12.934 χ^2/NDF : 47.1/31

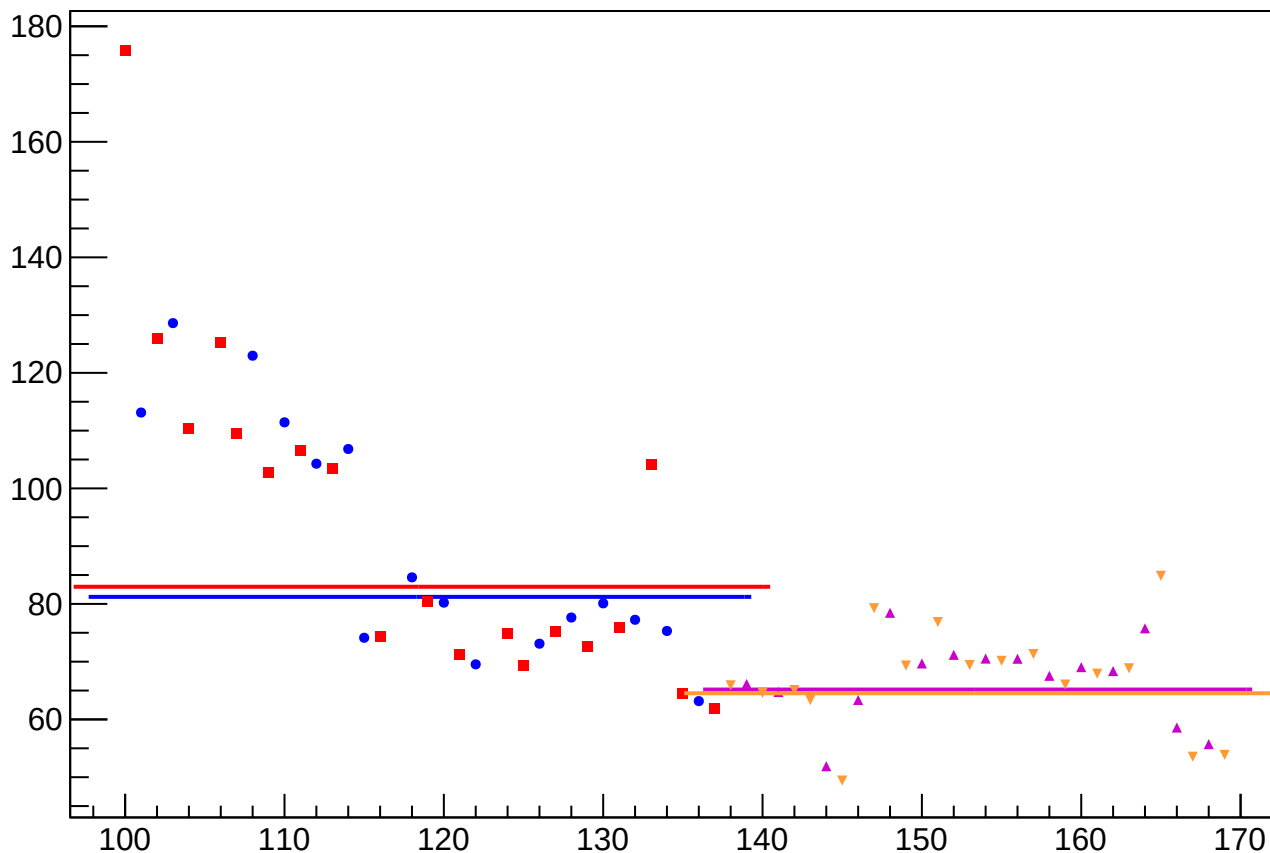
Right: -20.709 ± 22.025 χ^2/NDF : 33.8/34

In: -23.559 ± 16.082 χ^2/NDF : 33.4/30

Out: -14.436 ± 15.480 χ^2/NDF : 47.3/35

All: -18.823 ± 11.153 χ^2/NDF : 80.9/66

dit_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 81.218 $\pm$ 0.022 χ^2 /NDF: 662873.6/15

Left Out: 64.533 $\pm$ 0.013 χ^2 /NDF: 499085.5/16

Right Out: 82.971 $\pm$ 0.022 χ^2 /NDF: 730384.9/18

Left In: 65.174 $\pm$ 0.013 χ^2 /NDF: 301455.0/14

Left: 64.837 $\pm$ 0.009 χ^2 /NDF: 801765.7/31

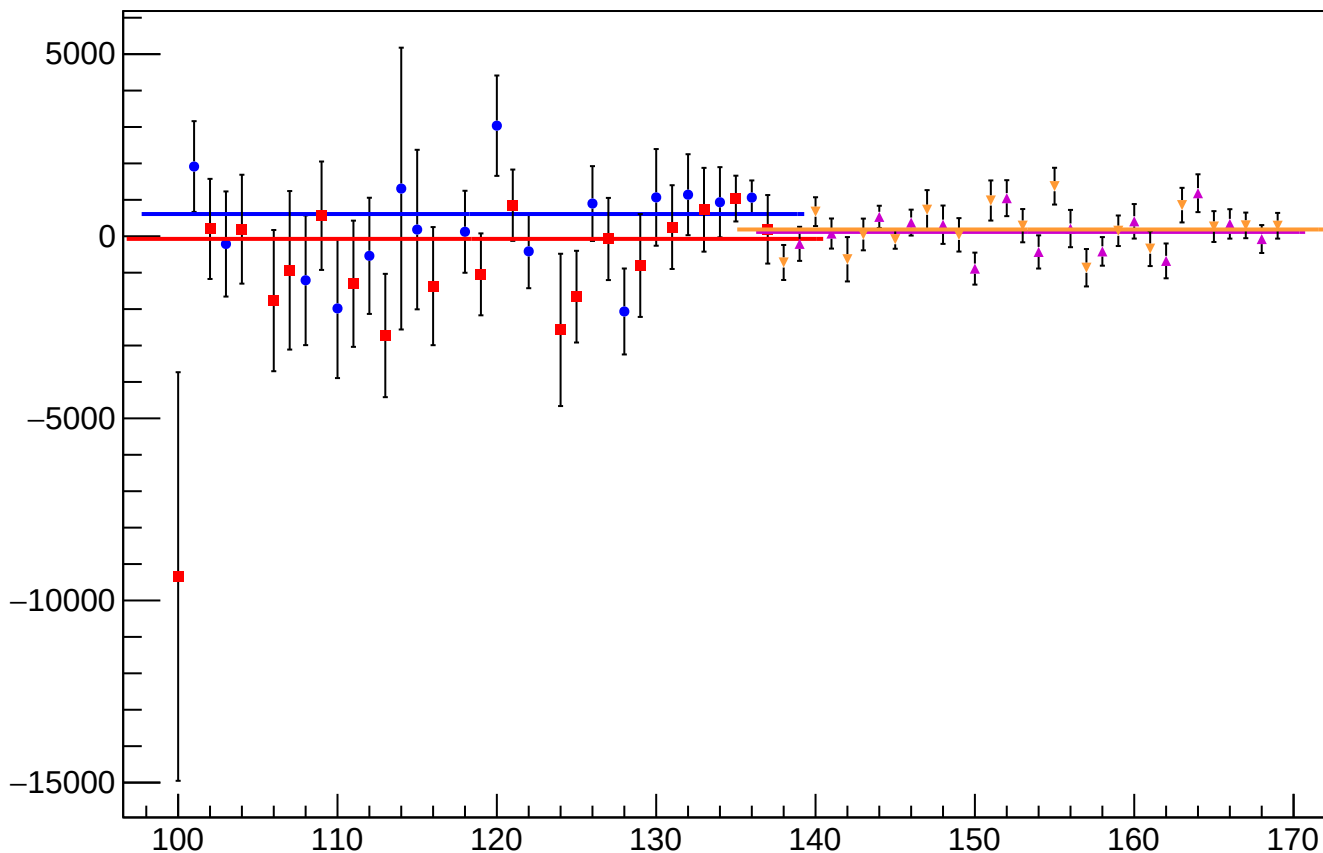
Right: 82.090 $\pm$ 0.016 χ^2 /NDF: 1396425.1/34

In: 69.475 $\pm$ 0.011 χ^2 /NDF: 1354876.4/30

Out: 69.062 $\pm$ 0.011 χ^2 /NDF: 1755196.2/35

All: 69.261 $\pm$ 0.008 χ^2 /NDF: 3110757.9/66

asym_sam_15_26_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 610.383 $\pm$ 273.982 χ^2 /NDF: 15.8/15

Left Out: 186.232 $\pm$ 103.468 χ^2 /NDF:24.4/16

Right Out: -72.311 $\pm$ 286.830 χ^2 /NDF: 16.2/18

Left In: 119.309 $\pm$ 110.063 χ^2 /NDF:23.0/14

Left: 154.835 $\pm$ 75.387 χ^2 /NDF: 47.6/31

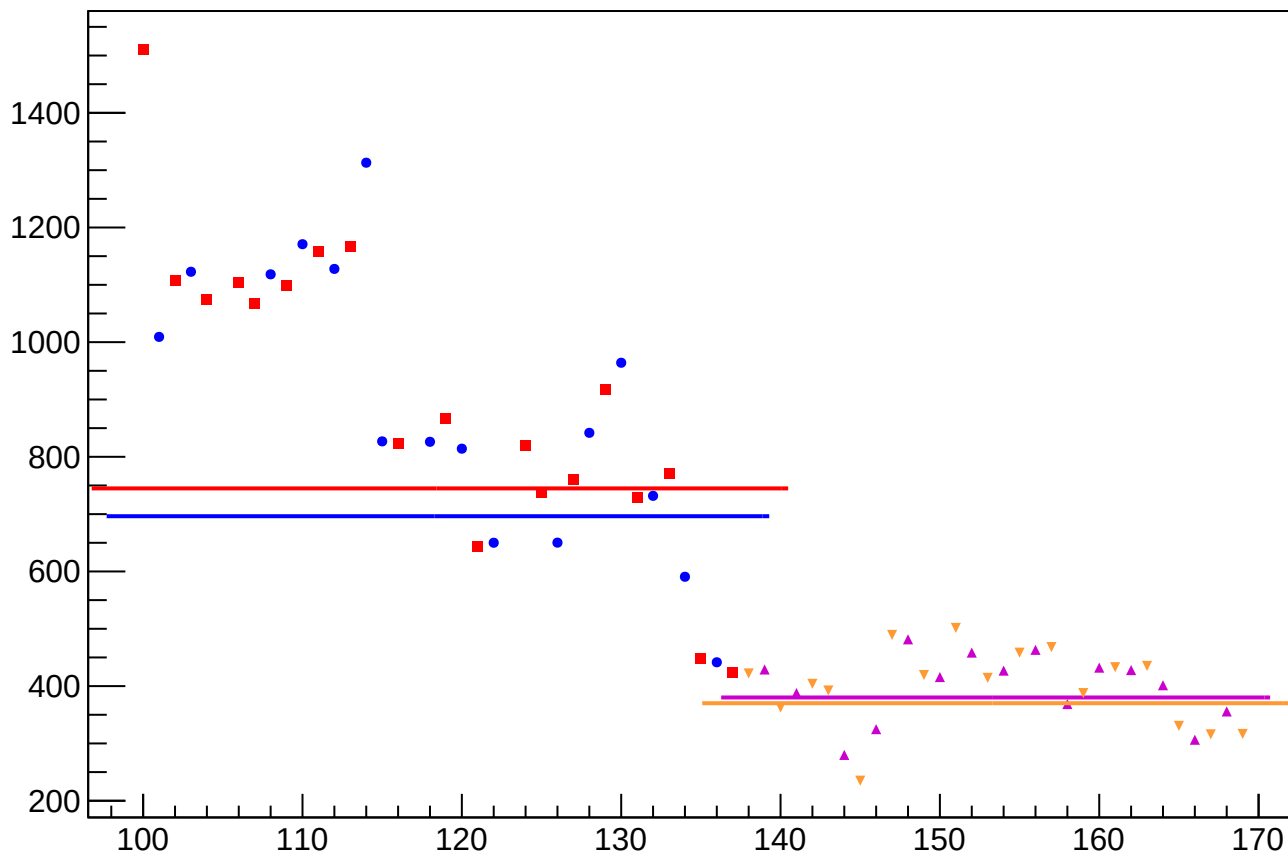
Right: 284.669 $\pm$ 198.121 χ^2 /NDF: 34.9/34

In: 187.545 $\pm$ 102.131 χ^2 /NDF:41.6/30

Out: 156.463 $\pm$ 97.329 χ^2 /NDF:41.3/35

All: 171.256 $\pm$ 70.458 χ^2 /NDF: 82.9/66

asym_sam_15_26_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 696.371+/-0.194 χ^2/NDF : 1515478.0/15

Left Out: 370.170+/-0.073 χ^2/NDF : 1140174.5/16

Right Out: 744.875+/-0.203 χ^2/NDF : 1498361.7/18

Left In: 380.169+/-0.078 χ^2/NDF : 621816.2/14

Left: 374.861+/-0.053 χ^2/NDF : 1770753.6/31

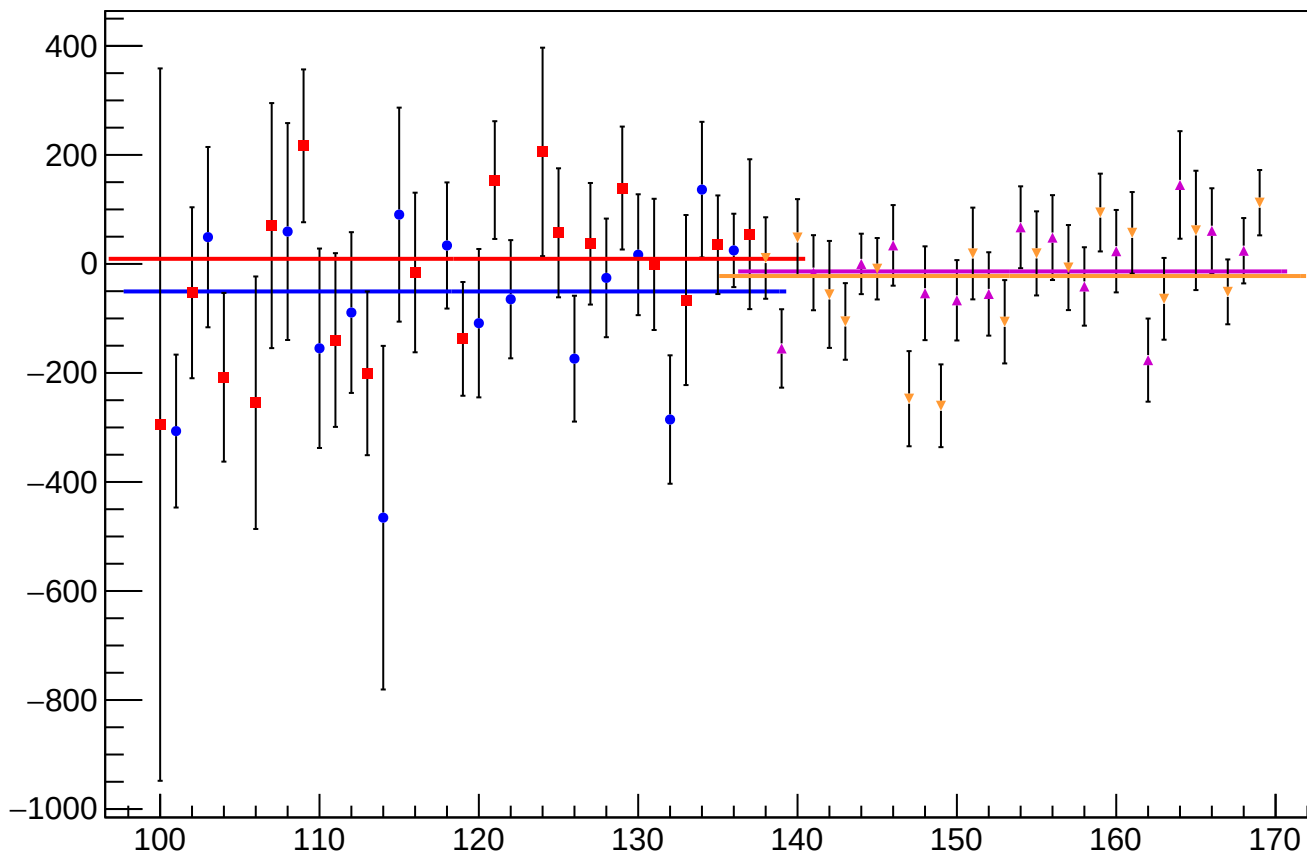
Right: 719.512+/-0.140 χ^2/NDF : 3043745.4/34

In: 424.106+/-0.072 χ^2/NDF : 4431023.7/30

Out: 413.315+/-0.069 χ^2/NDF : 5658713.0/35

All: 418.451+/-0.050 χ^2/NDF : 10101438.9/60

eigen_dit_asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -50.466 ± 31.061 χ^2/NDF : 16.4/15

Left Out: -22.190 ± 17.823 χ^2/NDF : 31.0/16

Right Out: 9.381 ± 31.235 χ^2/NDF : 15.6/18

Left In: -13.702 ± 18.798 χ^2/NDF : 16.0/14

Left: -18.172 ± 12.934 χ^2/NDF : 47.1/31

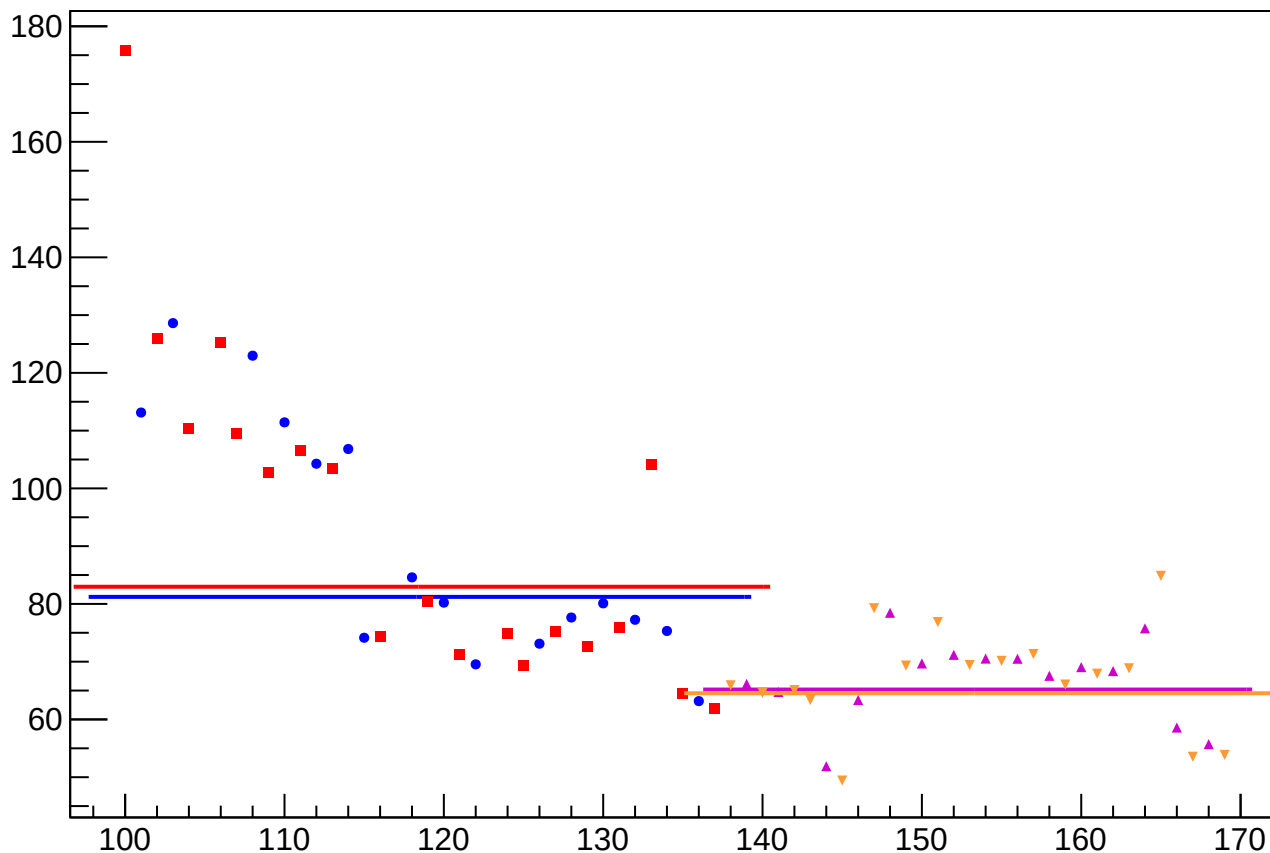
Right: -20.709 ± 22.025 χ^2/NDF : 33.8/34

In: -23.558 ± 16.082 χ^2/NDF : 33.4/30

Out: -14.435 ± 15.480 χ^2/NDF : 47.3/35

All: -18.823 ± 11.153 χ^2/NDF : 80.9/66

eigen_dit_asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 81.218 $\pm$ 0.022 χ^2 /NDF: 662862.1/15

Left Out: 64.533 $\pm$ 0.013 χ^2 /NDF: 499080.8/16

Right Out: 82.971 $\pm$ 0.022 χ^2 /NDF: 730375.6/18

Left In: 65.174 $\pm$ 0.013 χ^2 /NDF: 301453.7/14

Left: 64.837 $\pm$ 0.009 χ^2 /NDF: 801759.6/31

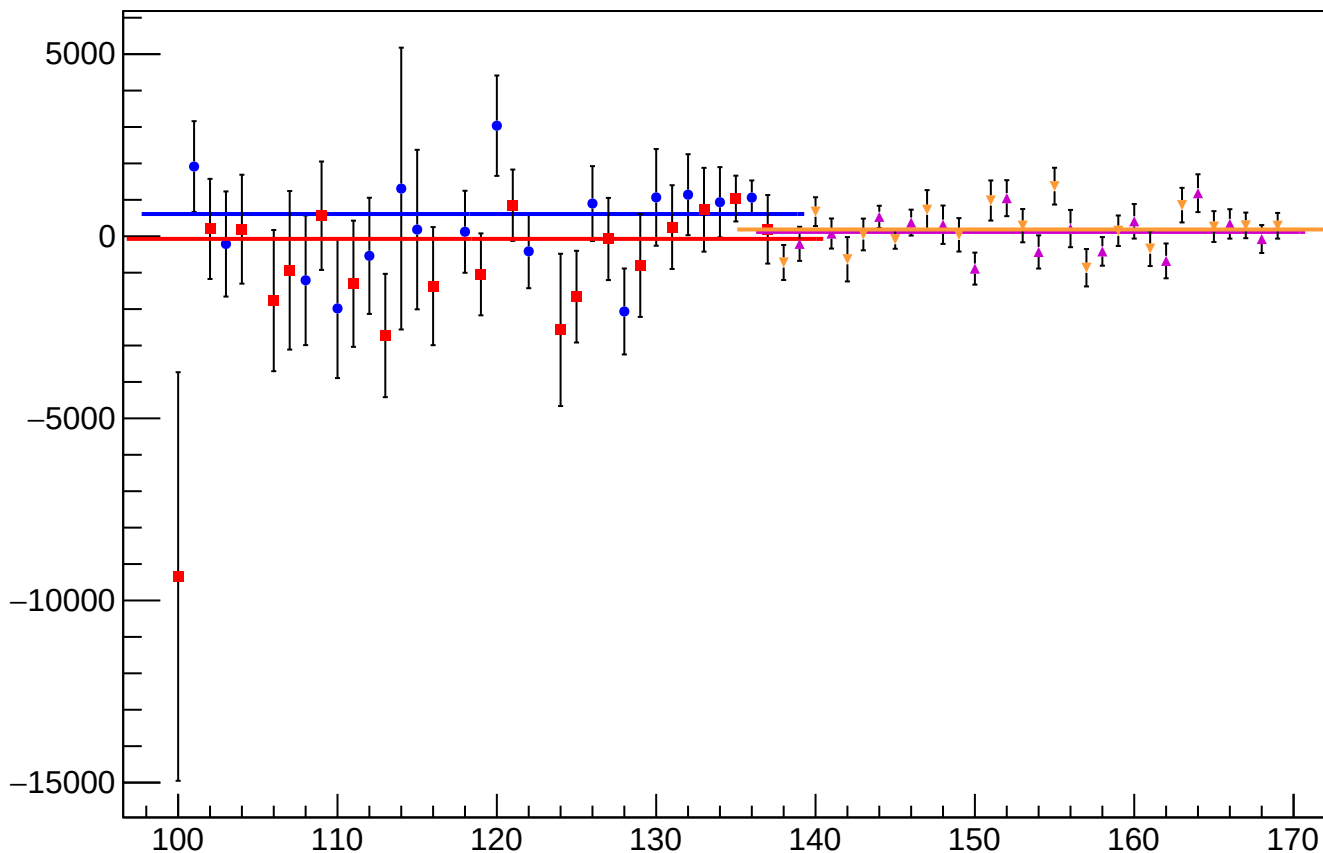
Right: 82.089 $\pm$ 0.016 χ^2 /NDF: 1396405.1/34

In: 69.475 $\pm$ 0.011 χ^2 /NDF: 1354837.1/30

Out: 69.062 $\pm$ 0.011 χ^2 /NDF: 1755159.1/35

All: 69.261 $\pm$ 0.008 χ^2 /NDF: 3110681.3/66

asym_sam_15_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 610.382 $\pm$ 273.981 χ^2 /NDF: 15.8/15

Left Out: 186.232 $\pm$ 103.468 χ^2 /NDF: 24.4/16

Right Out: -72.313 $\pm$ 286.830 χ^2 /NDF: 16.2/18

Left In: 119.310 $\pm$ 110.063 χ^2 /NDF: 23.0/14

Left: 154.836 $\pm$ 75.387 χ^2 /NDF: 47.6/31

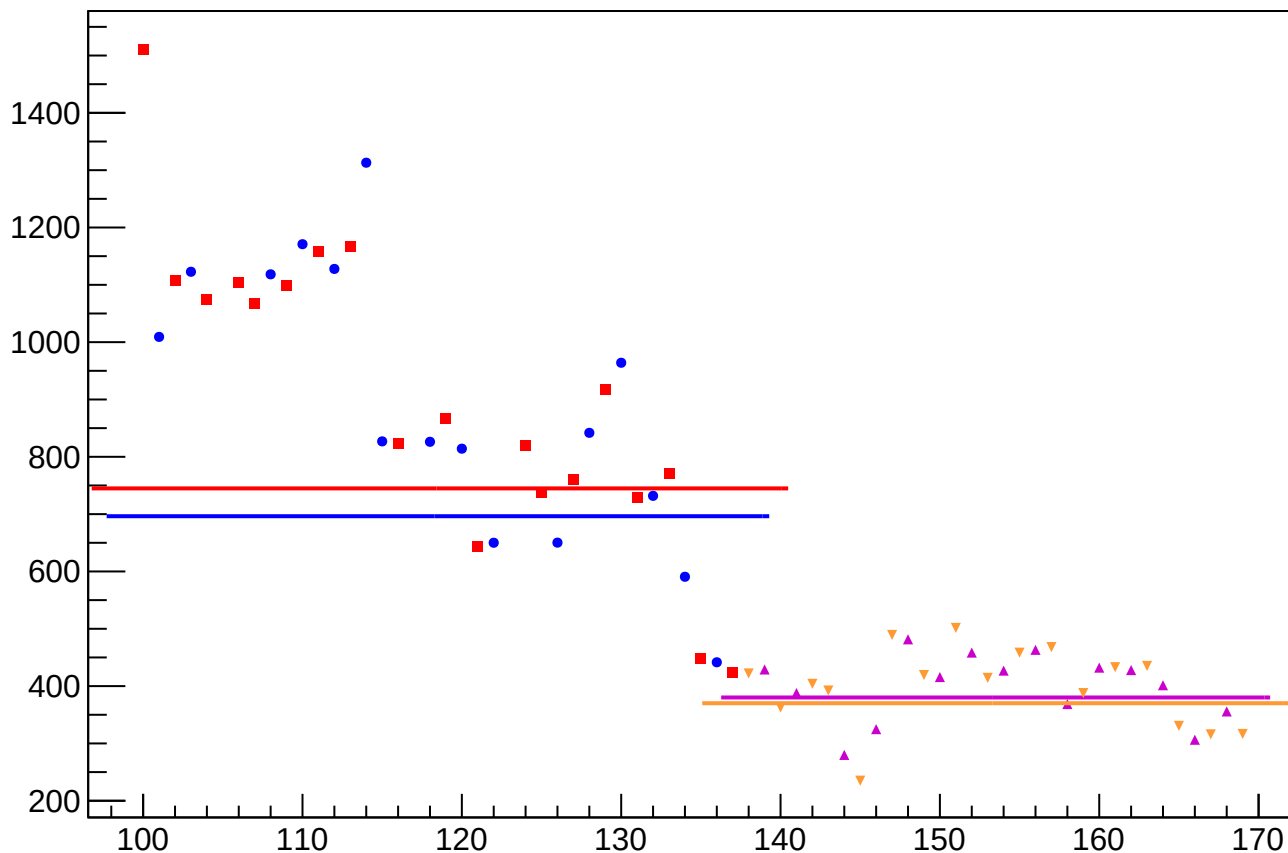
Right: 284.667 $\pm$ 198.121 χ^2 /NDF: 34.9/34

In: 187.546 $\pm$ 102.131 χ^2 /NDF: 41.6/30

Out: 156.462 $\pm$ 97.329 χ^2 /NDF: 41.3/35

All: 171.256 $\pm$ 70.458 χ^2 /NDF: 82.9/66

asym_sam_15_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 696.370+/-0.194 χ^2/NDF : 1515461.8/15

Left Out: 370.170+/-0.073 χ^2/NDF : 1140194.7/16

Right Out: 744.874+/-0.203 χ^2/NDF : 1498349.6/18

Left In: 380.169+/-0.078 χ^2/NDF : 621824.8/14

Left: 374.861+/-0.053 χ^2/NDF : 1770782.5/31

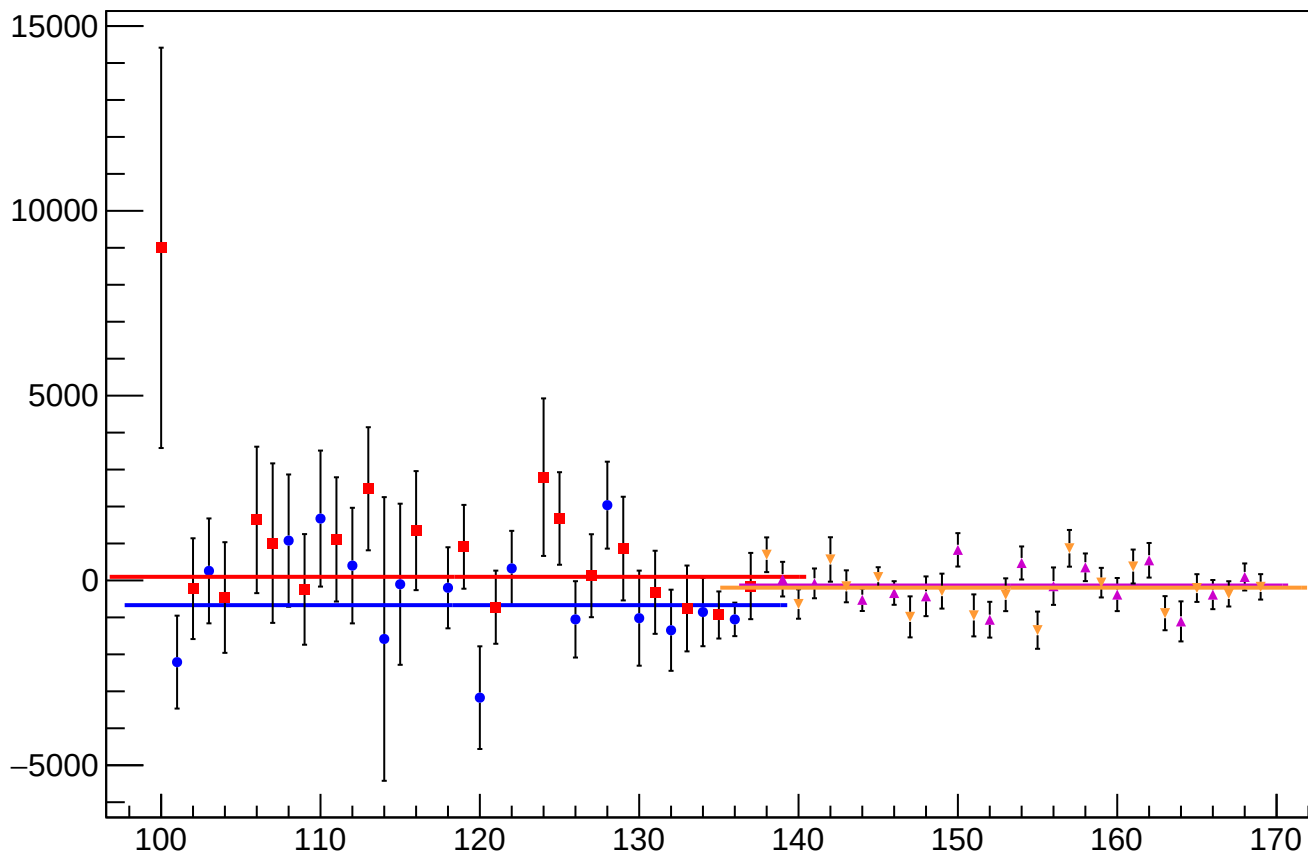
Right: 719.511+/-0.140 χ^2/NDF : 3043716.8/34

In: 424.106+/-0.072 χ^2/NDF : 4431008.2/30

Out: 413.315+/-0.069 χ^2/NDF : 5658713.2/35

All: 418.451+/-0.050 χ^2/NDF : 10101423.9/60

asym_sam_15_26_dd_mean vs Slug, Sign Corrected



Right In: -668.503+/-268.452 χ^2/NDF : 16.1/15

Left Out: -195.332+/-101.764 χ^2/NDF :25.5/16

Right Out: 98.003+/-285.882 χ^2/NDF : 14.8/18

Left In: -137.274+/-107.283 χ^2/NDF :20.7/14

Left: -167.835+/-73.832 χ^2/NDF : 46.4/31

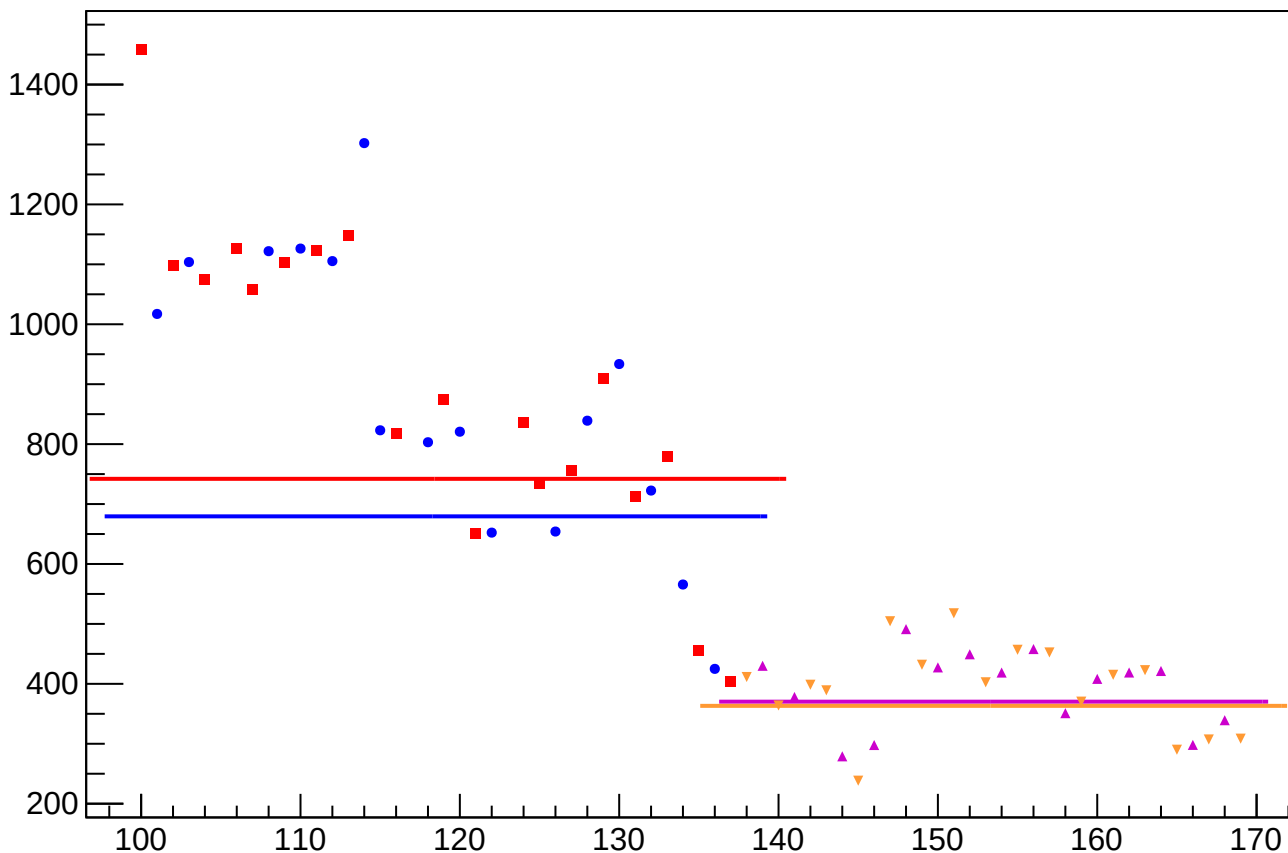
Right: -309.326+/-195.696 χ^2/NDF : 34.8/34

In: -210.432+/-99.623 χ^2/NDF :40.2/30

Out: -162.343+/-95.871 χ^2/NDF :41.3/35

All: -185.465+/-69.079 χ^2/NDF : 81.6/66

asym_sam_15_26_dd_rms vs Slug, Sign Corrected



Right In: 679.469+/-0.190 χ^2/NDF : 1600922.1/15

Left Out: 363.261+/-0.072 χ^2/NDF : 1177461.4/16

Right Out: 742.081+/-0.202 χ^2/NDF : 1504391.2/18

Left In: 370.235+/-0.076 χ^2/NDF : 727310.3/14

Left: 366.564+/-0.052 χ^2/NDF : 1909220.8/31

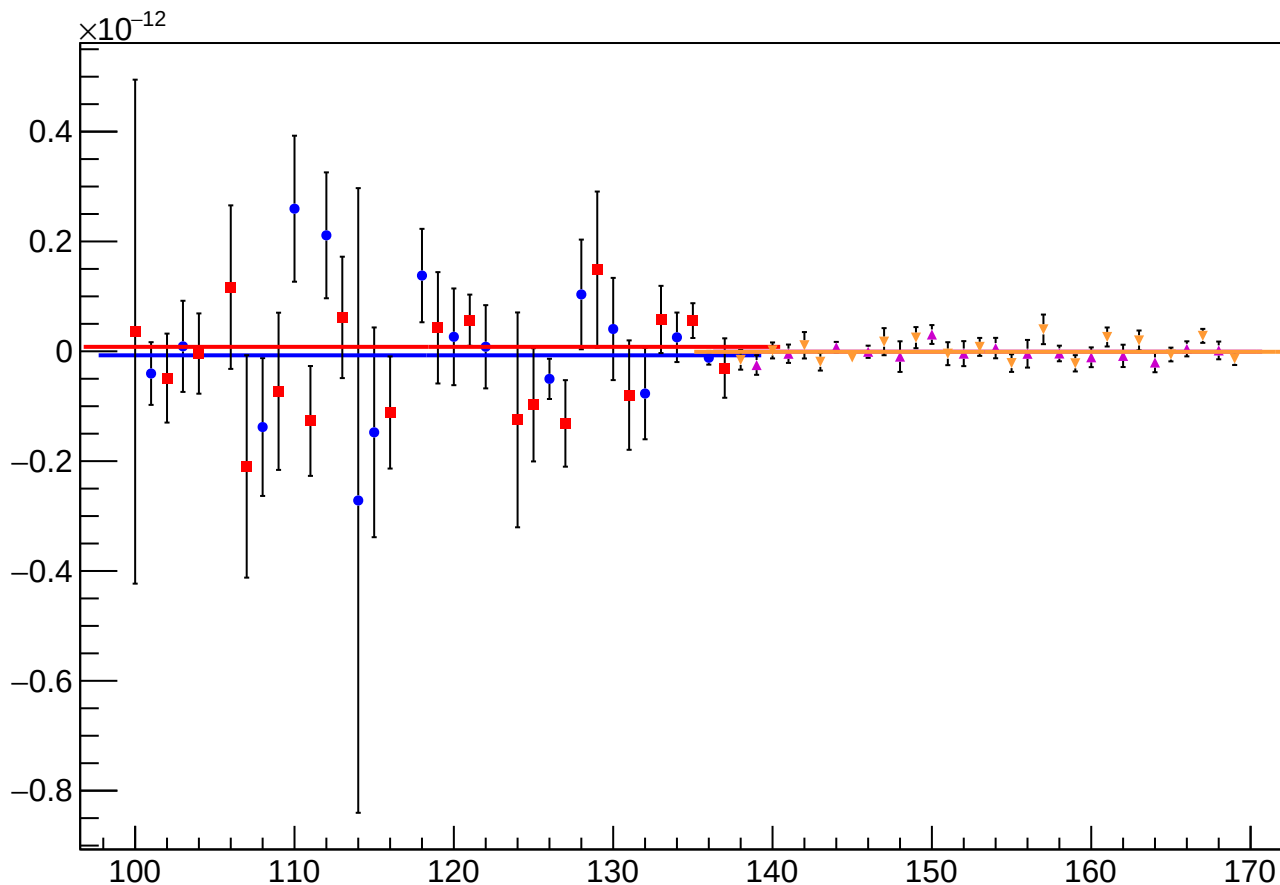
Right: 708.808+/-0.138 χ^2/NDF : 3156293.3/34

In: 412.821+/-0.070 χ^2/NDF : 4616567.0/30

Out: 405.864+/-0.068 χ^2/NDF : 5798659.6/35

All: 409.209+/-0.049 χ^2/NDF : 10420291.4/60

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 17.2/15

Left Out: -0.000+/-0.000 χ^2/NDF : 22.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 17.0/18

Left In: -0.000+/-0.000 χ^2/NDF : 8.1/14

Left: -0.000+/-0.000 χ^2/NDF : 30.5/31

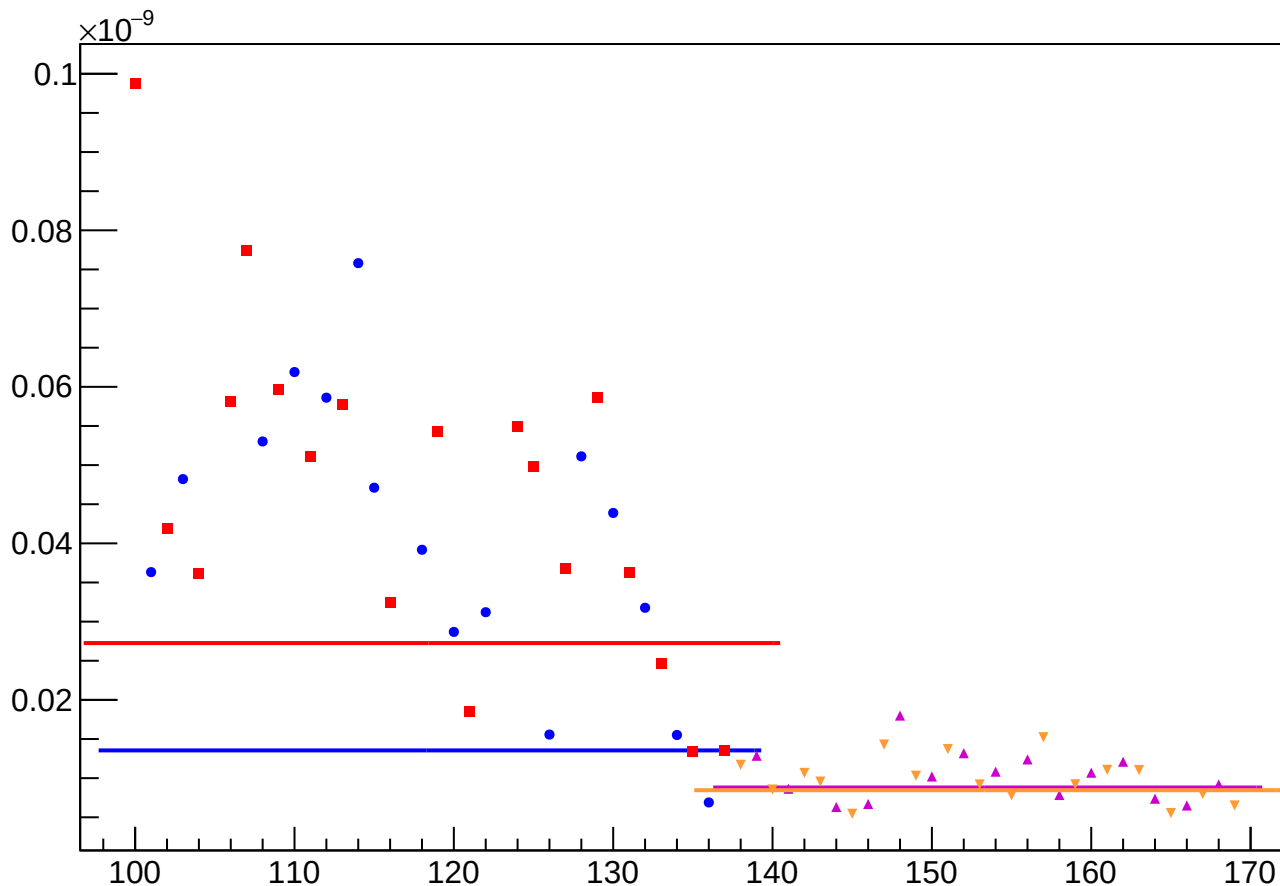
Right: -0.000+/-0.000 χ^2/NDF : 34.8/34

In: -0.000+/-0.000 χ^2/NDF : 25.6/30

Out: -0.000+/-0.000 χ^2/NDF : 39.7/35

All: -0.000+/-0.000 χ^2/NDF : 65.4/66

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3045220.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 975910.6/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1735739.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 825966.0/14

Left: 0.000+/-0.000 χ^2/NDF : 1809721.9/31

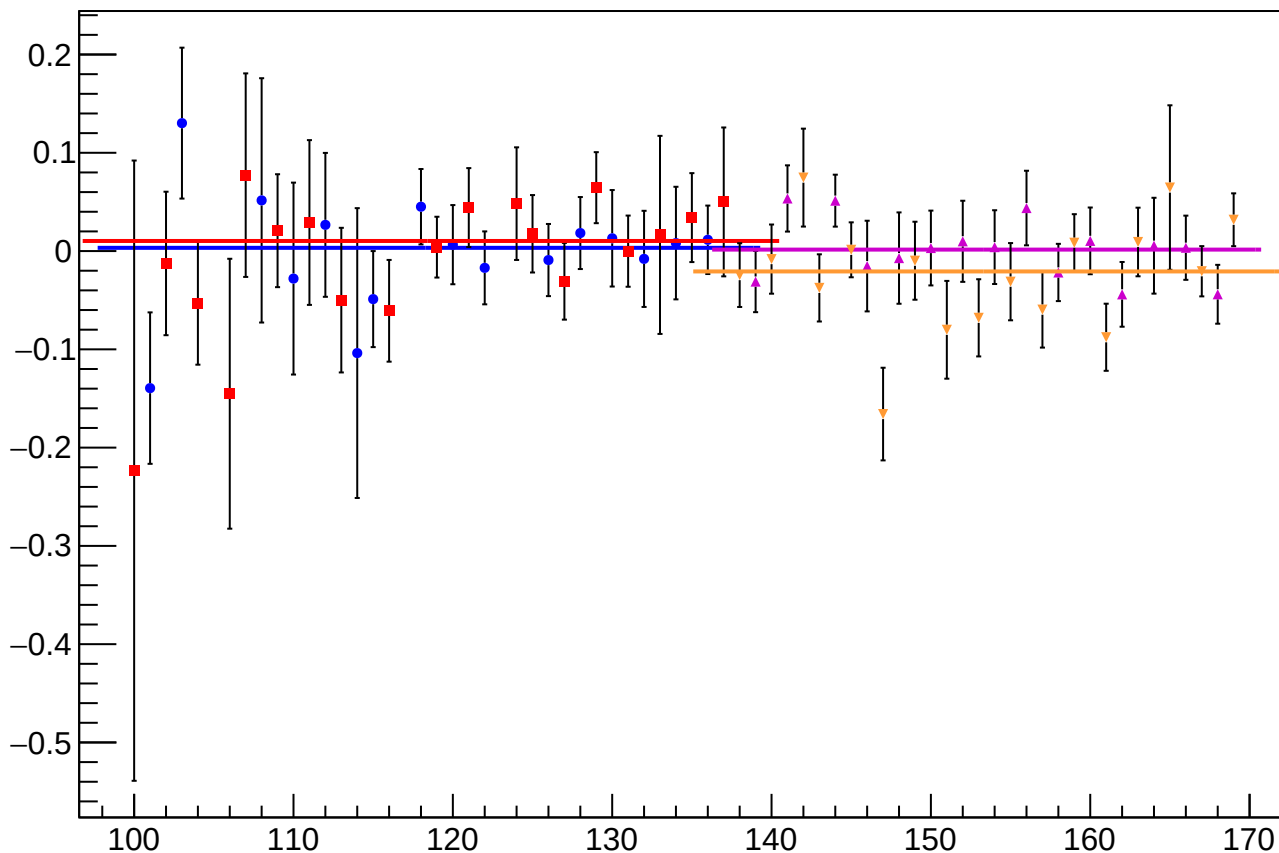
Right: 0.000+/-0.000 χ^2/NDF : 5700569.4/34

In: 0.000+/-0.000 χ^2/NDF : 4226766.4/30

Out: 0.000+/-0.000 χ^2/NDF : 4966457.7/35

All: 0.000+/-0.000 χ^2/NDF : 9195101.9/66

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.012 χ^2 /NDF: 10.1/15

Left Out: -0.021 $\pm$ 0.009 χ^2 /NDF:28.6/16

Right Out: 0.010 $\pm$ 0.012 χ^2 /NDF: 11.2/18

Left In: 0.001 $\pm$ 0.009 χ^2 /NDF:13.4/14

Left: -0.010 $\pm$ 0.006 χ^2 /NDF: 45.3/31

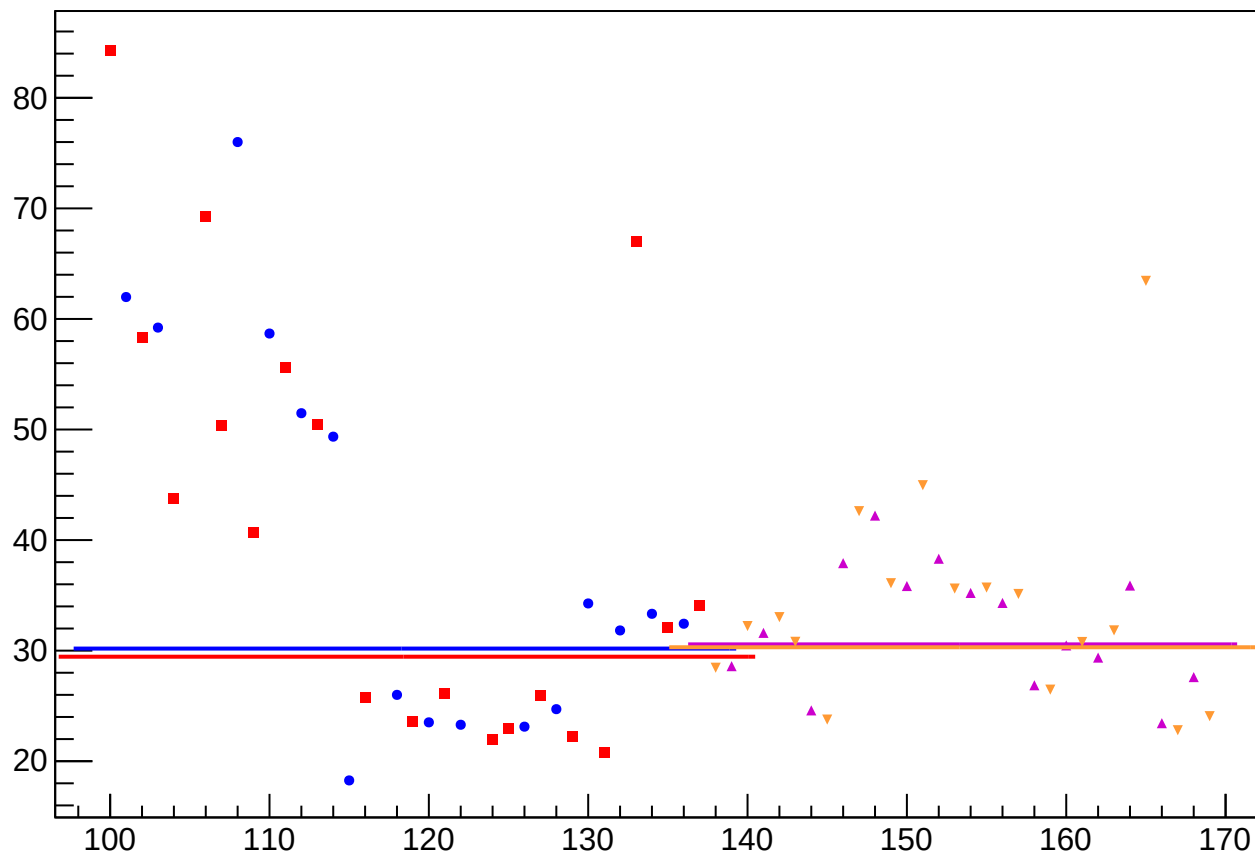
Right: 0.007 $\pm$ 0.009 χ^2 /NDF: 21.5/34

In: 0.002 $\pm$ 0.007 χ^2 /NDF:23.5/30

Out: -0.010 $\pm$ 0.007 χ^2 /NDF:44.4/35

All: -0.004 $\pm$ 0.005 χ^2 /NDF: 69.4/66

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 30.187 $\pm$ 0.009 χ^2 /NDF: 1687373.5/15

Left Out: 30.305 $\pm$ 0.006 χ^2 /NDF:1218912.5/16

Right Out: 29.451 $\pm$ 0.008 χ^2 /NDF: 1848636.5/18

Left In: 30.566 $\pm$ 0.006 χ^2 /NDF:621059.6/14

Left: 30.429 $\pm$ 0.004 χ^2 /NDF: 1840860.4/31

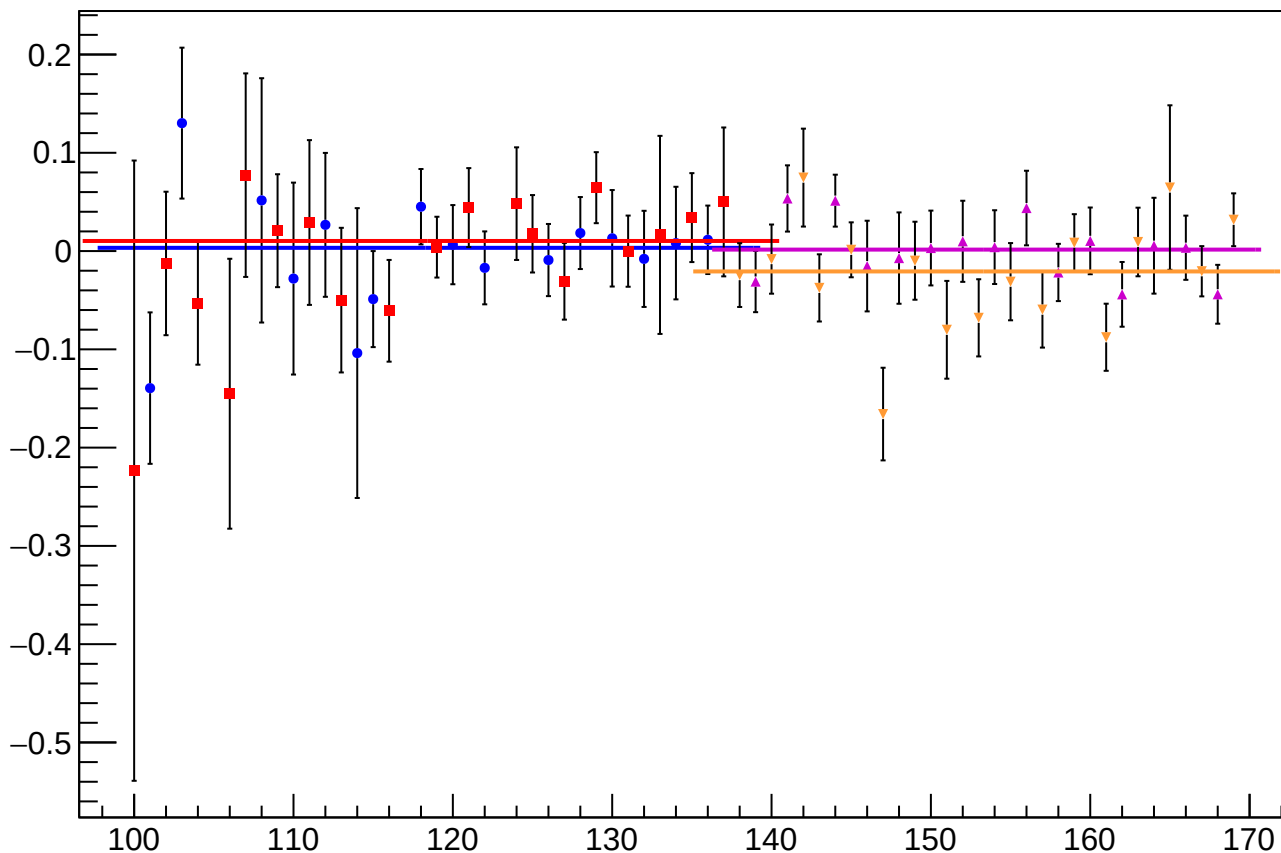
Right: 29.805 $\pm$ 0.006 χ^2 /NDF: 3539732.7/34

In: 30.434 $\pm$ 0.005 χ^2 /NDF:2309675.7/30

Out: 30.011 $\pm$ 0.005 χ^2 /NDF:3074391.8/35

All: 30.213 $\pm$ 0.004 χ^2 /NDF: 5387618.9/66

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.012 χ^2 /NDF: 10.1/15

Left Out: -0.021 $\pm$ 0.009 χ^2 /NDF:28.6/16

Right Out: 0.010 $\pm$ 0.012 χ^2 /NDF: 11.2/18

Left In: 0.001 $\pm$ 0.009 χ^2 /NDF:13.4/14

Left: -0.010 $\pm$ 0.006 χ^2 /NDF: 45.3/31

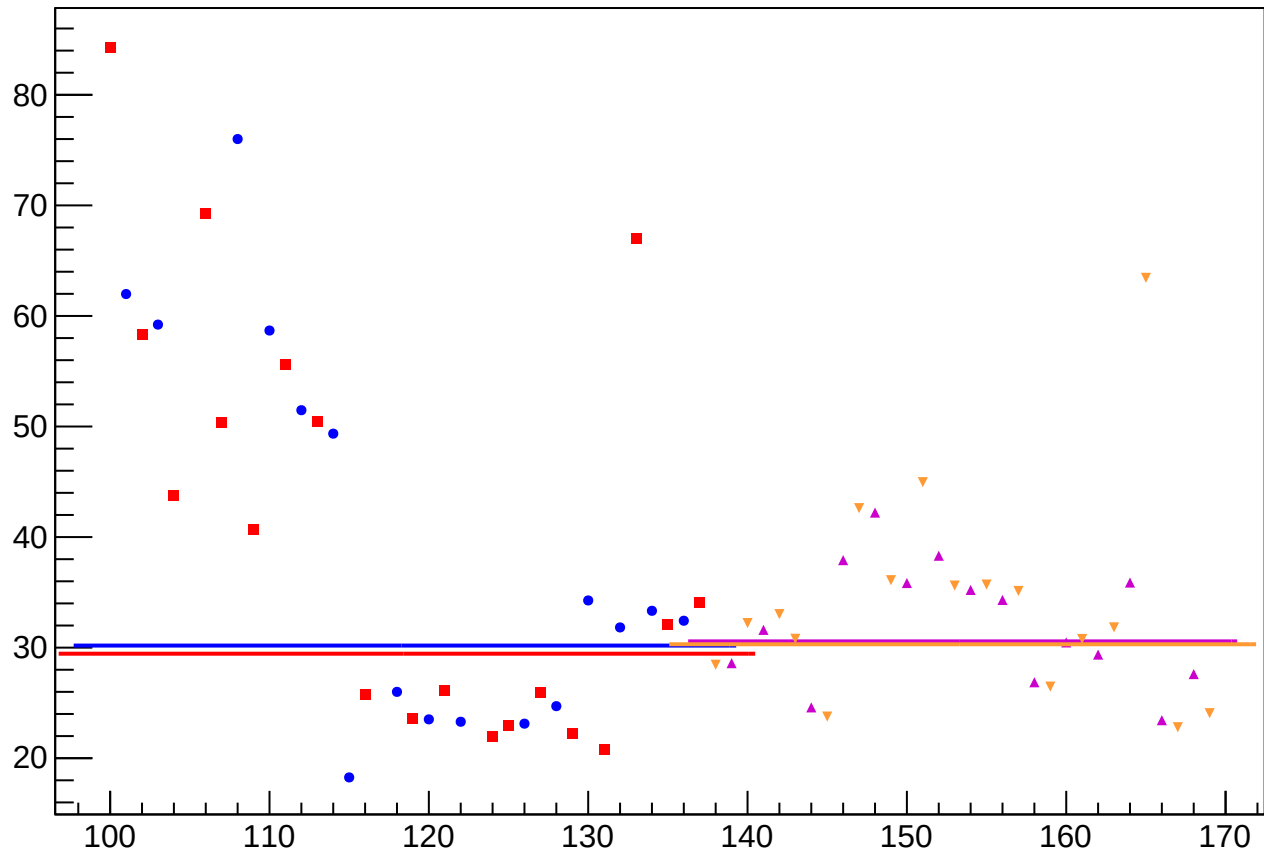
Right: 0.007 $\pm$ 0.009 χ^2 /NDF: 21.5/34

In: 0.002 $\pm$ 0.007 χ^2 /NDF:23.5/30

Out: -0.010 $\pm$ 0.007 χ^2 /NDF:44.4/35

All: -0.004 $\pm$ 0.005 χ^2 /NDF: 69.4/66

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 30.187 $\pm$ 0.009 χ^2 /NDF: 1687373.5/15

Left Out: 30.305 $\pm$ 0.006 χ^2 /NDF:1218912.5/16

Right Out: 29.451 $\pm$ 0.008 χ^2 /NDF: 1848636.5/18

Left In: 30.566 $\pm$ 0.006 χ^2 /NDF:621059.6/14

Left: 30.429 $\pm$ 0.004 χ^2 /NDF: 1840860.4/31

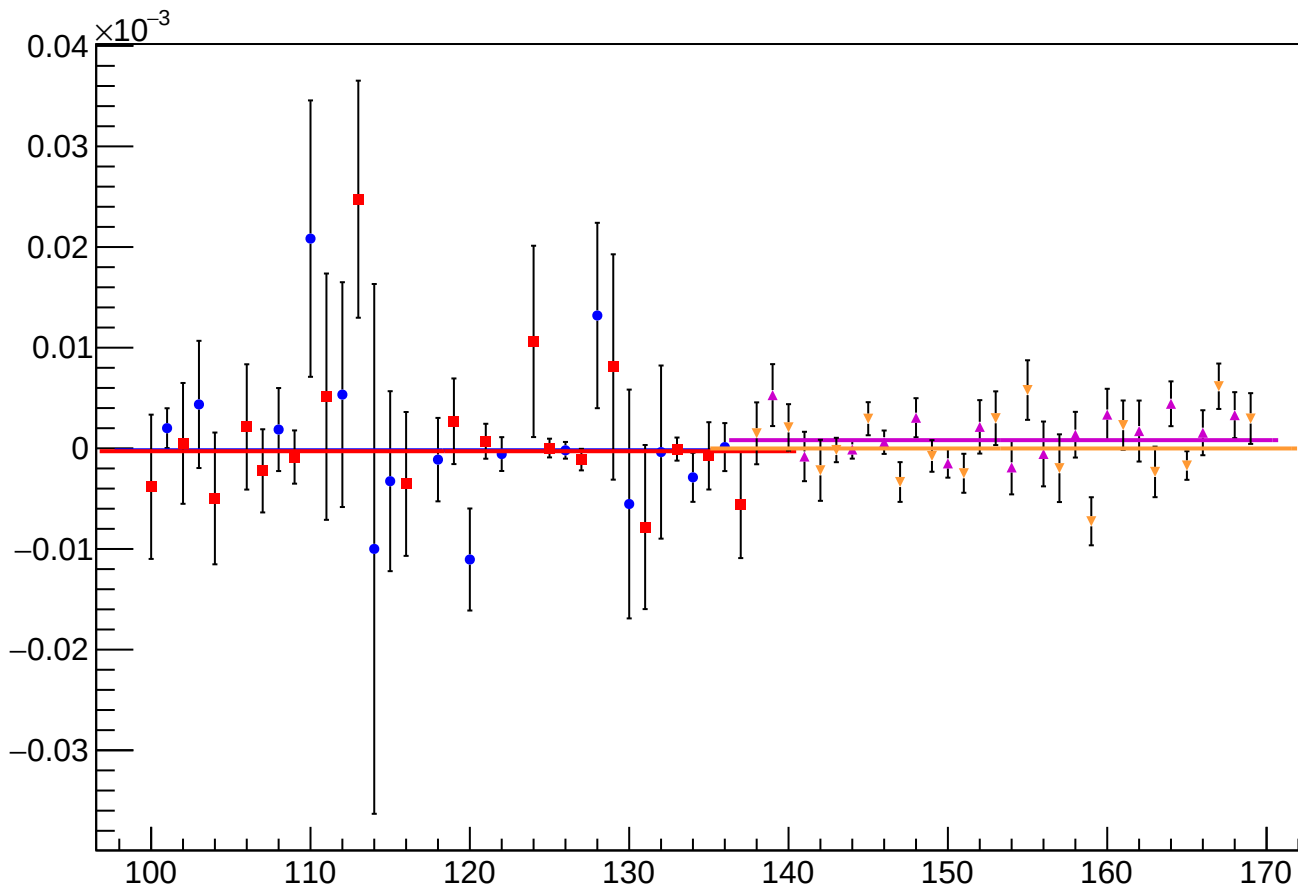
Right: 29.805 $\pm$ 0.006 χ^2 /NDF: 3539732.7/34

In: 30.434 $\pm$ 0.005 χ^2 /NDF:2309675.7/30

Out: 30.011 $\pm$ 0.005 χ^2 /NDF:3074391.8/35

All: 30.213 $\pm$ 0.004 χ^2 /NDF: 5387618.9/66

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 13.1/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 36.2/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 11.4/18

Left In: 0.000 ± 0.000 χ^2/NDF : 14.1/14

Left: 0.000 ± 0.000 χ^2/NDF : 51.8/31

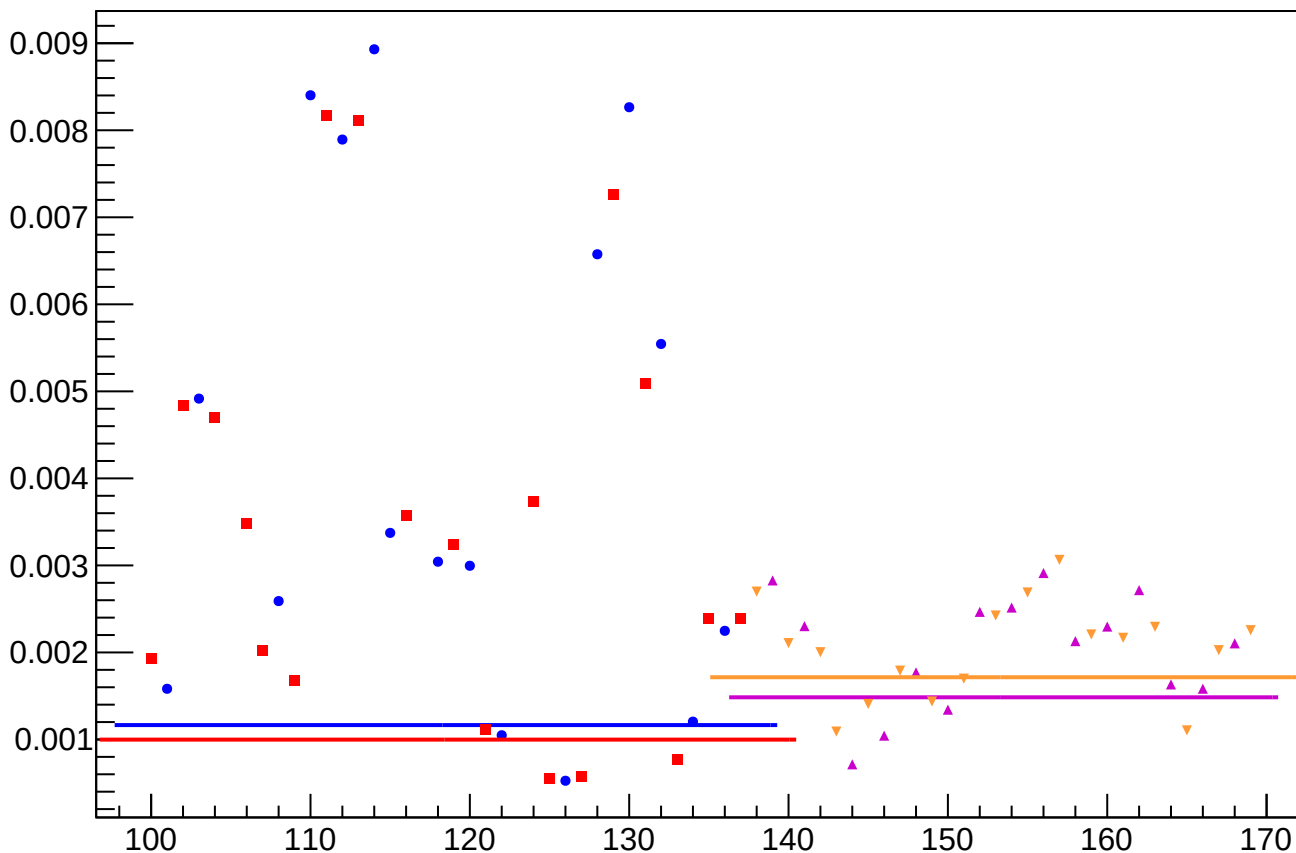
Right: -0.000 ± 0.000 χ^2/NDF : 24.6/34

In: 0.000 ± 0.000 χ^2/NDF : 28.9/30

Out: -0.000 ± 0.000 χ^2/NDF : 47.8/35

All: 0.000 ± 0.000 χ^2/NDF : 77.9/66

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 6881775.6/15

Left Out: 0.002+/-0.000 χ^2/NDF :2385757.1/16

Right Out: 0.001+/-0.000 χ^2/NDF : 6937197.5/18

Left In: 0.001+/-0.000 χ^2/NDF :4200789.2/14

Left: 0.002+/-0.000 χ^2/NDF : 6811852.6/31

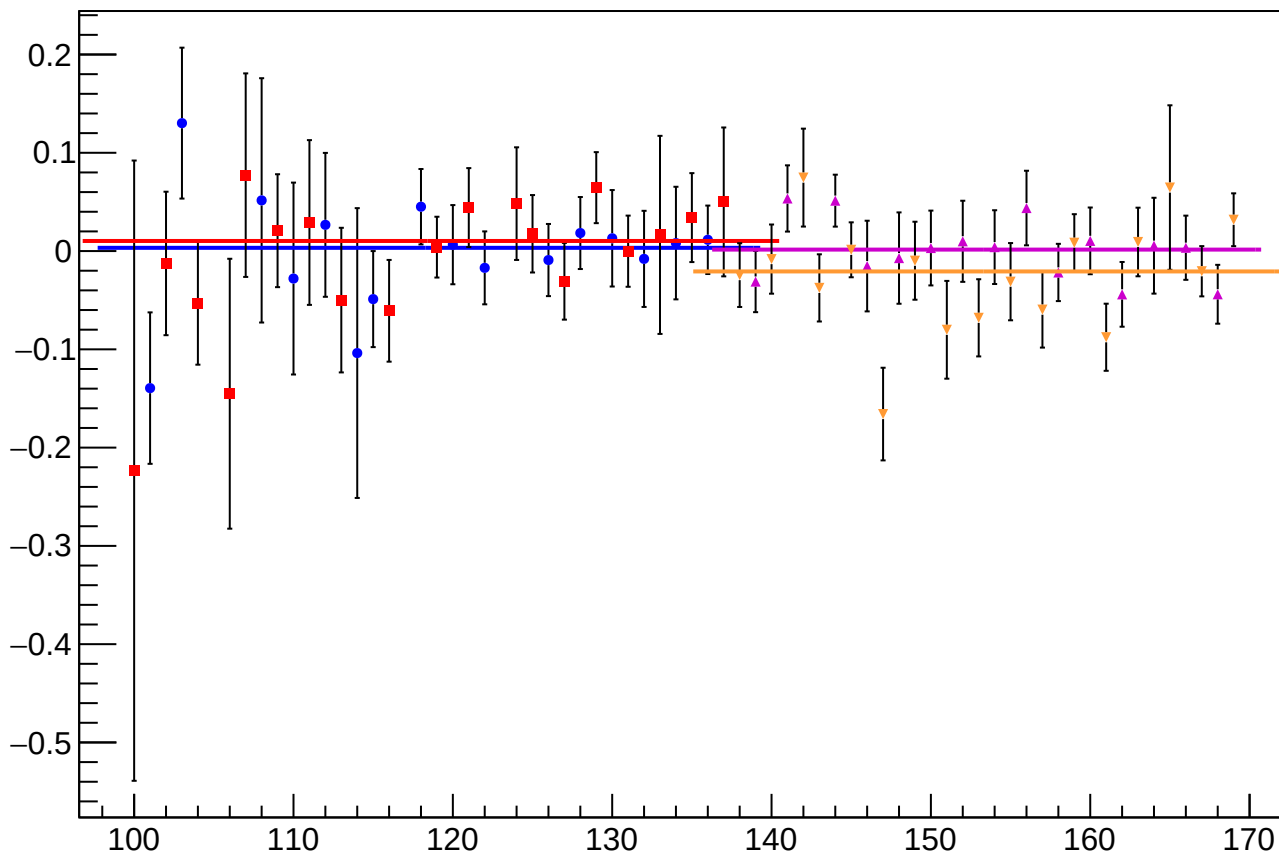
Right: 0.001+/-0.000 χ^2/NDF : 13904727.1/34

In: 0.001+/-0.000 χ^2/NDF :11419497.1/30

Out: 0.001+/-0.000 χ^2/NDF :11305715.6/35

All: 0.001+/-0.000 χ^2/NDF : 22726118.1/66

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.012 χ^2 /NDF: 10.1/15

Left Out: -0.021 $\pm$ 0.009 χ^2 /NDF:28.6/16

Right Out: 0.010 $\pm$ 0.012 χ^2 /NDF: 11.2/18

Left In: 0.001 $\pm$ 0.009 χ^2 /NDF:13.4/14

Left: -0.010 $\pm$ 0.006 χ^2 /NDF: 45.3/31

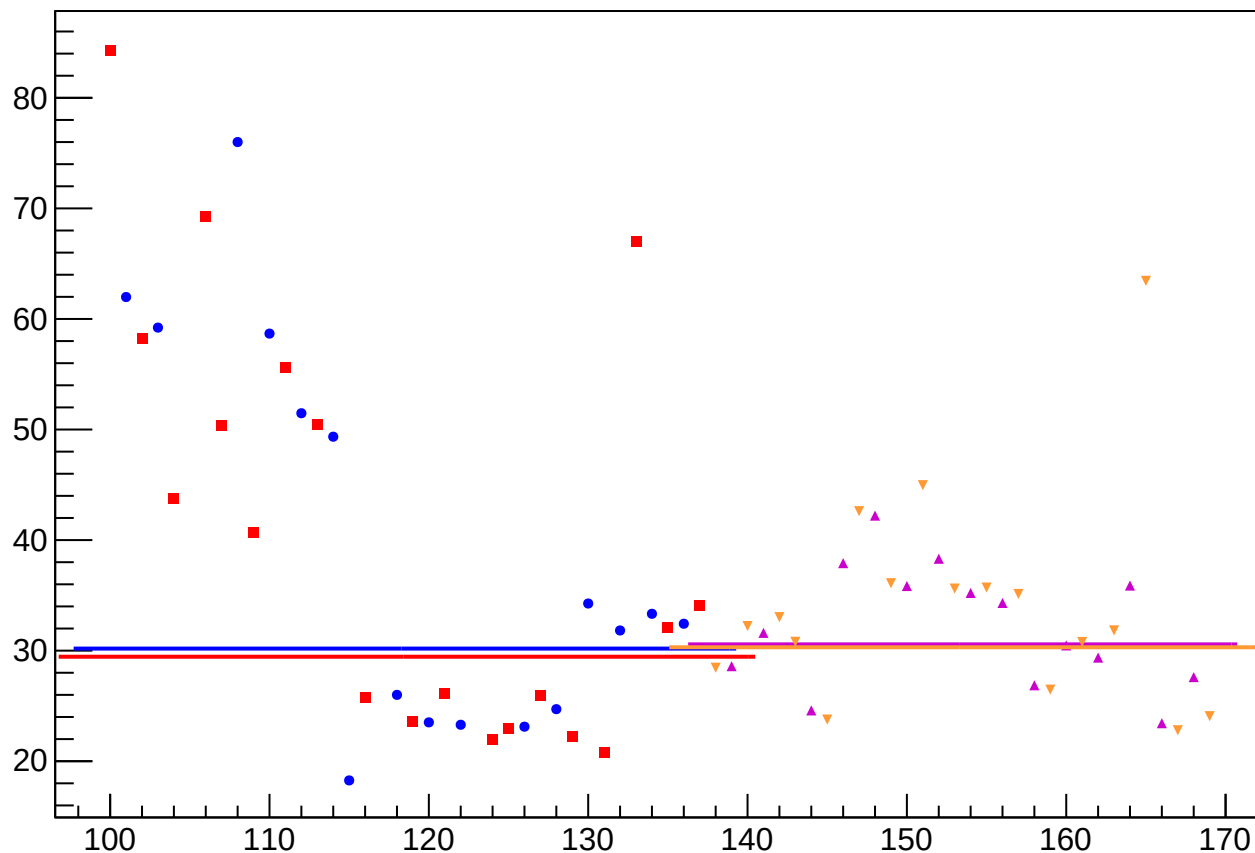
Right: 0.007 $\pm$ 0.009 χ^2 /NDF: 21.5/34

In: 0.002 $\pm$ 0.007 χ^2 /NDF:23.5/30

Out: -0.010 $\pm$ 0.007 χ^2 /NDF:44.4/35

All: -0.004 $\pm$ 0.005 χ^2 /NDF: 69.4/66

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 30.187 $\pm$ 0.009 χ^2 /NDF: 1687188.2/15

Left Out: 30.305 $\pm$ 0.006 χ^2 /NDF:1218903.5/16

Right Out: 29.451 $\pm$ 0.008 χ^2 /NDF: 1848632.6/18

Left In: 30.566 $\pm$ 0.006 χ^2 /NDF:621085.3/14

Left: 30.429 $\pm$ 0.004 χ^2 /NDF: 1840876.5/31

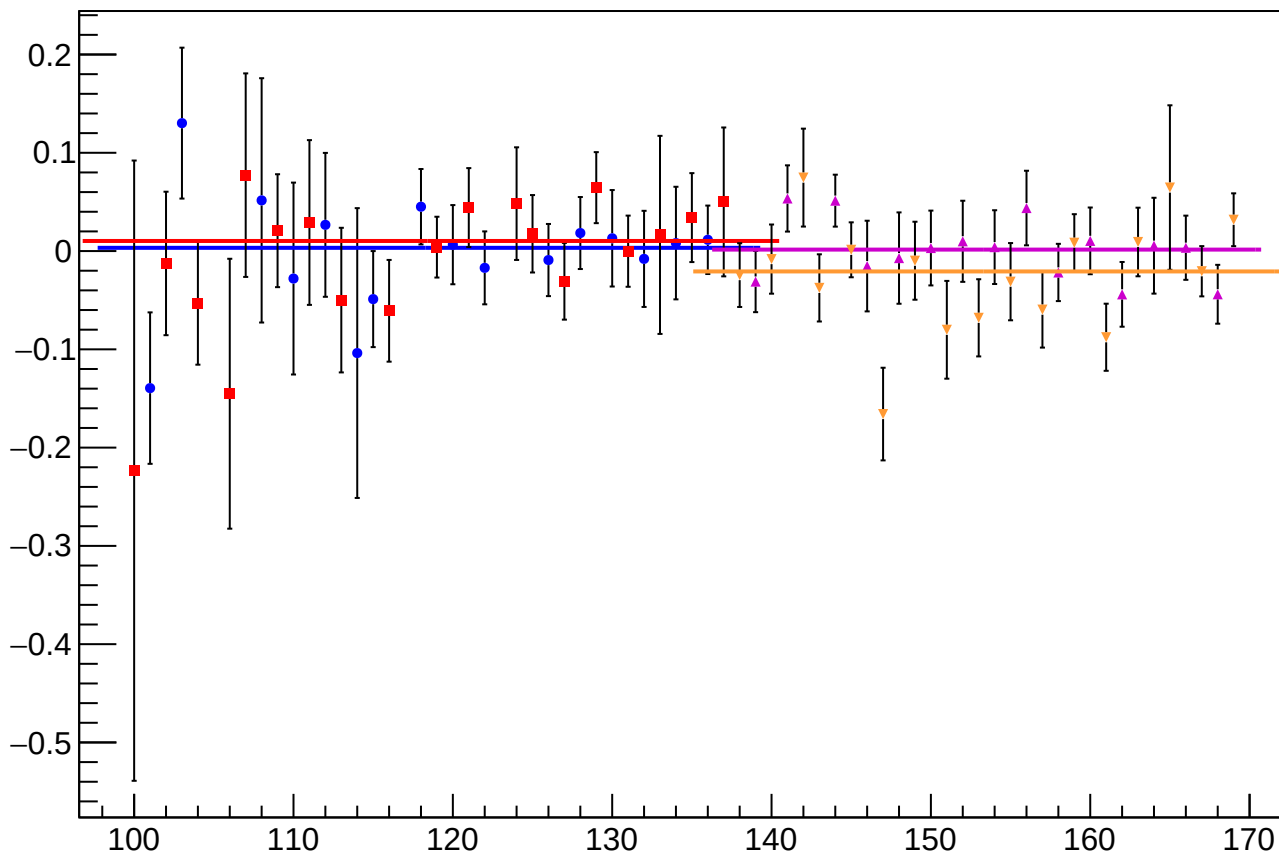
Right: 29.805 $\pm$ 0.006 χ^2 /NDF: 3539550.0/34

In: 30.434 $\pm$ 0.005 χ^2 /NDF:2309516.6/30

Out: 30.011 $\pm$ 0.005 χ^2 /NDF:3074391.0/35

All: 30.213 $\pm$ 0.004 χ^2 /NDF: 5387461.7/66

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.012 χ^2 /NDF: 10.1/15

Left Out: -0.021 $\pm$ 0.009 χ^2 /NDF:28.6/16

Right Out: 0.010 $\pm$ 0.012 χ^2 /NDF: 11.2/18

Left In: 0.001 $\pm$ 0.009 χ^2 /NDF:13.4/14

Left: -0.010 $\pm$ 0.006 χ^2 /NDF: 45.3/31

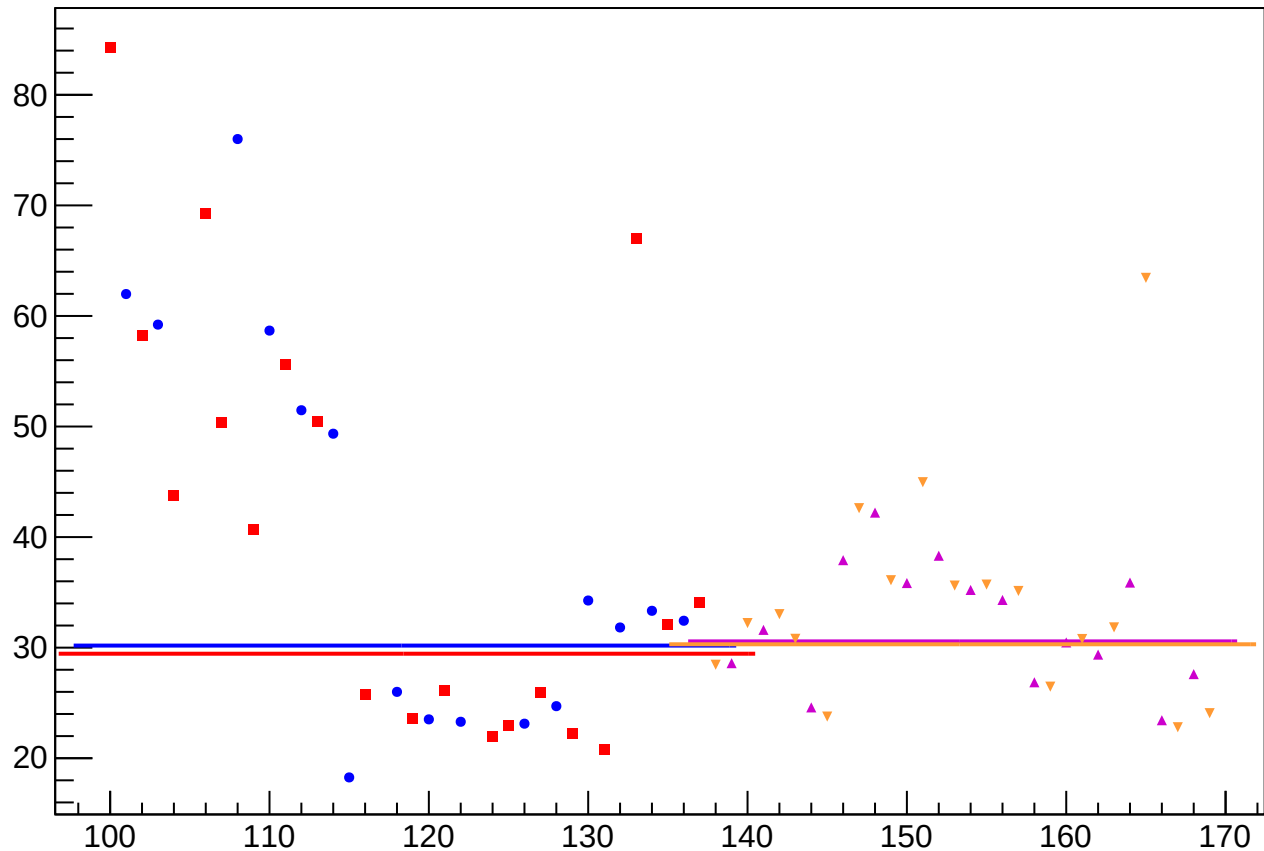
Right: 0.007 $\pm$ 0.009 χ^2 /NDF: 21.5/34

In: 0.002 $\pm$ 0.007 χ^2 /NDF:23.5/30

Out: -0.010 $\pm$ 0.007 χ^2 /NDF:44.4/35

All: -0.004 $\pm$ 0.005 χ^2 /NDF: 69.4/66

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 30.187 $\pm$ 0.009 χ^2 /NDF: 1687188.2/15

Left Out: 30.305 $\pm$ 0.006 χ^2 /NDF:1218903.5/16

Right Out: 29.451 $\pm$ 0.008 χ^2 /NDF: 1848632.6/18

Left In: 30.566 $\pm$ 0.006 χ^2 /NDF:621085.3/14

Left: 30.429 $\pm$ 0.004 χ^2 /NDF: 1840876.5/31

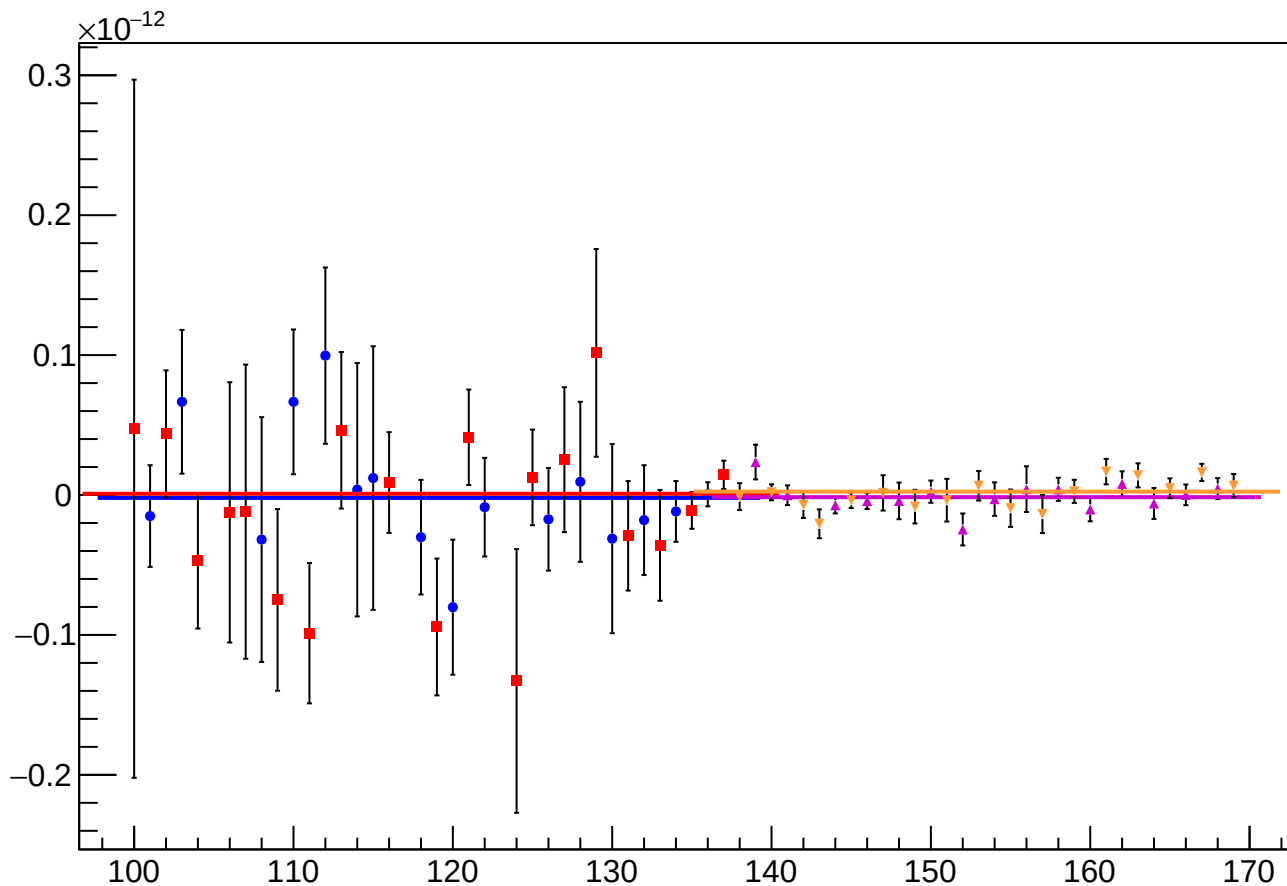
Right: 29.805 $\pm$ 0.006 χ^2 /NDF: 3539550.0/34

In: 30.434 $\pm$ 0.005 χ^2 /NDF:2309516.6/30

Out: 30.011 $\pm$ 0.005 χ^2 /NDF:3074391.0/35

All: 30.213 $\pm$ 0.004 χ^2 /NDF: 5387461.7/66

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 10.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 20.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 21.4/18

Left In: -0.000+/-0.000 χ^2/NDF : 13.4/14

Left: 0.000+/-0.000 χ^2/NDF : 35.5/31

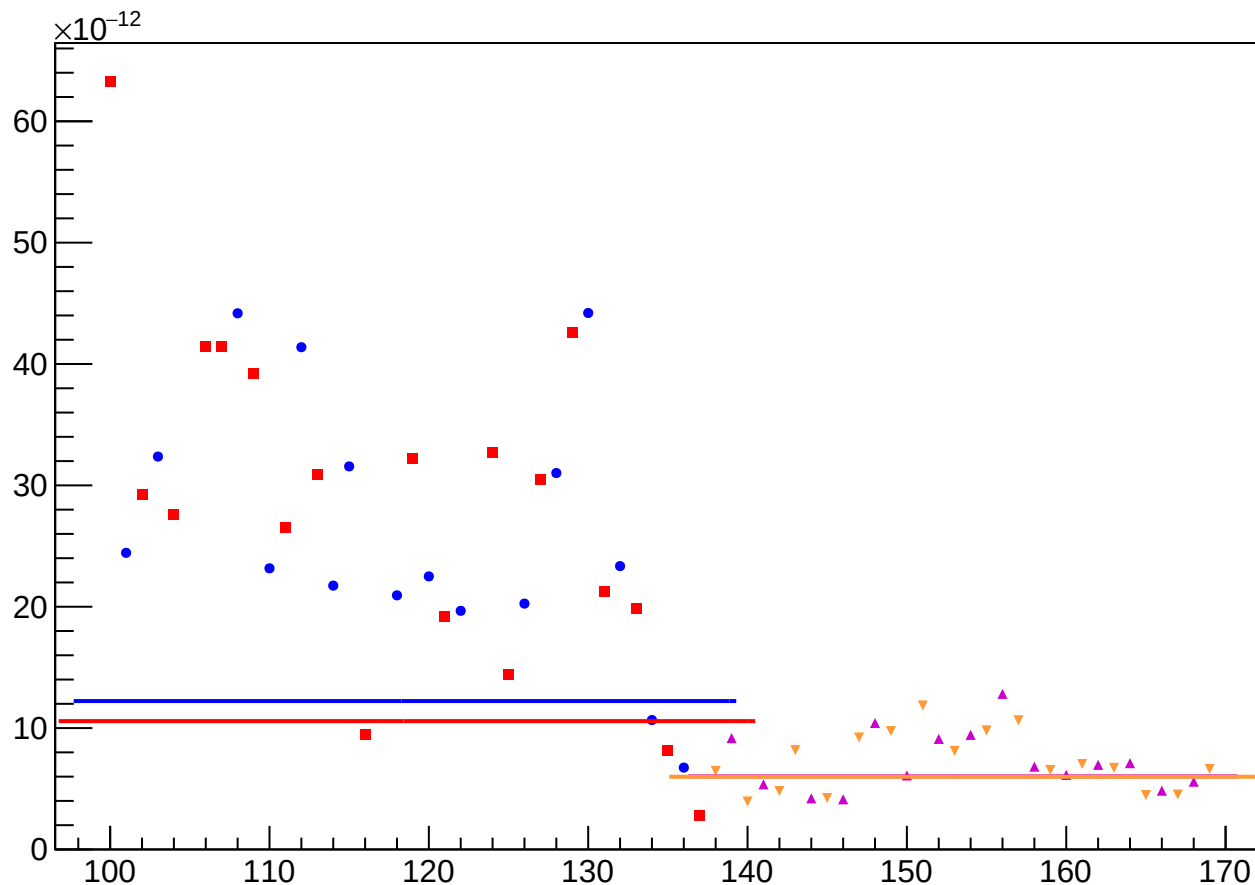
Right: -0.000+/-0.000 χ^2/NDF : 31.9/34

In: -0.000+/-0.000 χ^2/NDF : 23.8/30

Out: 0.000+/-0.000 χ^2/NDF : 41.8/35

All: 0.000+/-0.000 χ^2/NDF : 67.4/66

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 3437895.0/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1952741.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 4770079.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 1562426.0/14

Left: 0.000+/-0.000 χ^2/NDF : 3515389.2/31

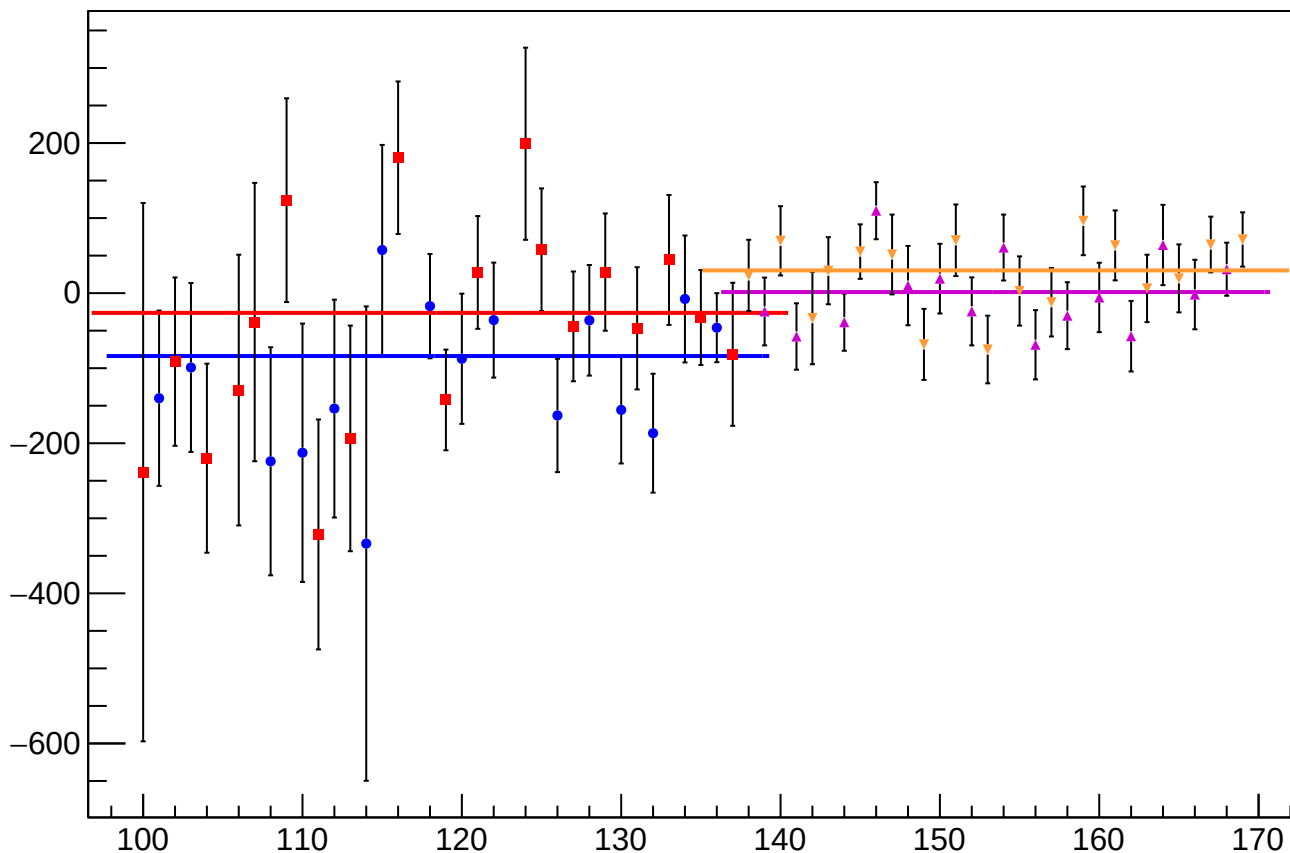
Right: 0.000+/-0.000 χ^2/NDF : 8268115.2/34

In: 0.000+/-0.000 χ^2/NDF : 6503500.8/30

Out: 0.000+/-0.000 χ^2/NDF : 7586196.6/35

All: 0.000+/-0.000 χ^2/NDF : 14099389.3/66

reg_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -83.808 ± 21.434 $\chi^2/\text{NDF}: 10.5/15$

Left Out: 30.281 ± 10.828 $\chi^2/\text{NDF}: 19.3/16$

Right Out: -26.301 ± 22.067 $\chi^2/\text{NDF}: 23.0/18$

Left In: 1.431 ± 11.382 $\chi^2/\text{NDF}: 20.2/14$

Left: 16.575 ± 7.845 $\chi^2/\text{NDF}: 42.9/31$

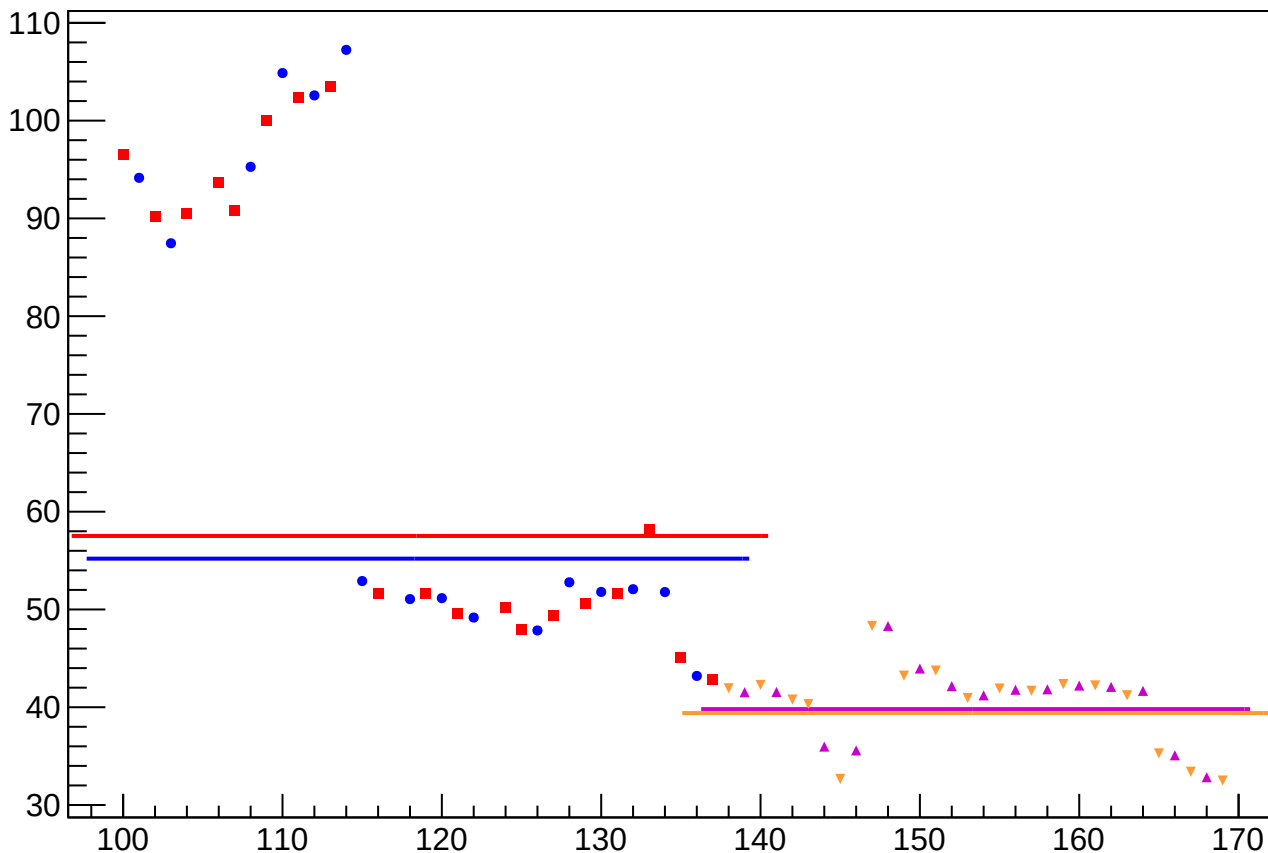
Right: -55.890 ± 15.375 $\chi^2/\text{NDF}: 37.0/34$

In: -17.317 ± 10.053 $\chi^2/\text{NDF}: 43.1/30$

Out: 19.301 ± 9.721 $\chi^2/\text{NDF}: 47.5/35$

All: 1.605 ± 6.988 $\chi^2/\text{NDF}: 97.5/66$

reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 55.198 $\pm$ 0.015 χ^2 /NDF: 1152581.1/15

Left Out: 39.404 $\pm$ 0.008 χ^2 /NDF:344004.7/16

Right Out: 57.519 $\pm$ 0.016 χ^2 /NDF: 1281793.1/18

Left In: 39.809 $\pm$ 0.008 χ^2 /NDF:244875.2/14

Left: 39.597 $\pm$ 0.006 χ^2 /NDF: 590211.3/31

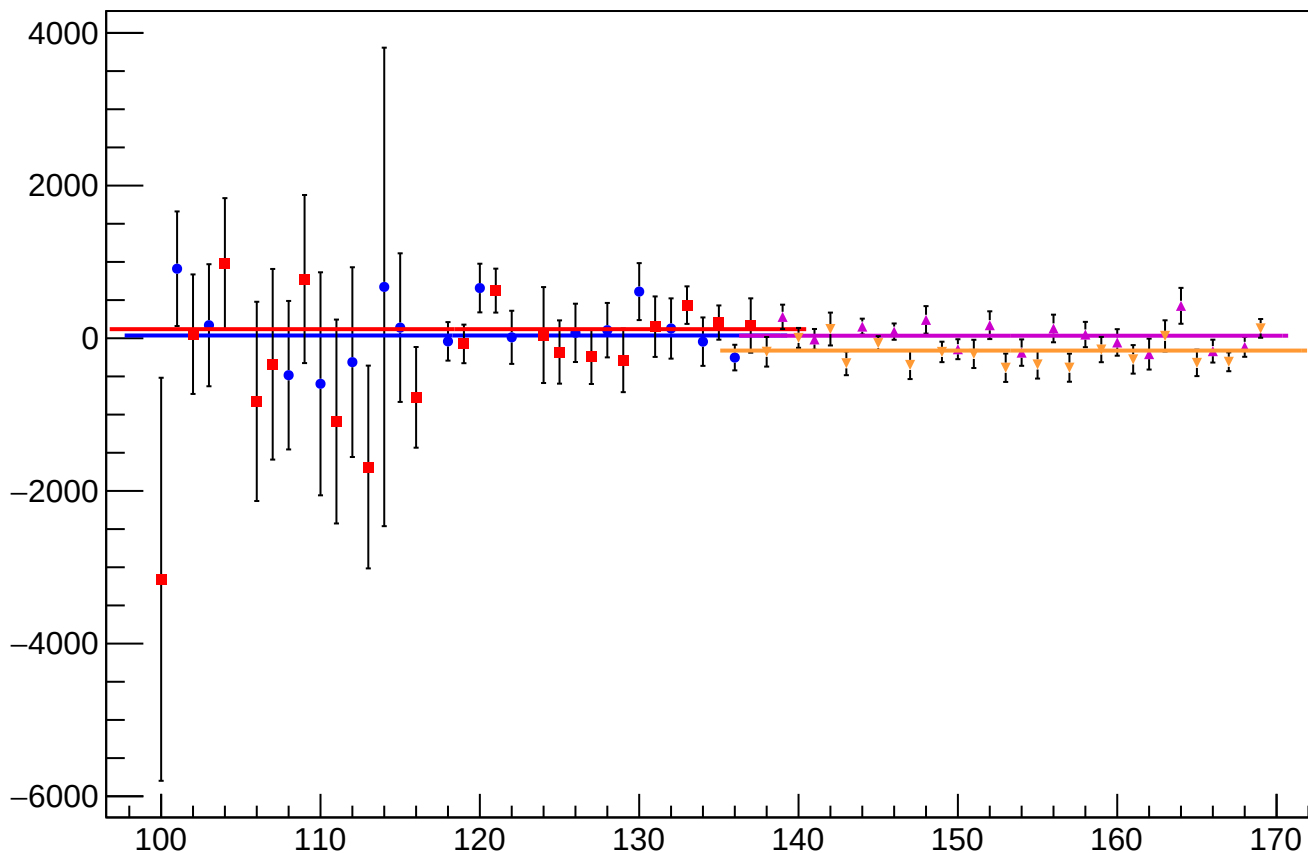
Right: 56.325 $\pm$ 0.011 χ^2 /NDF: 2445763.7/34

In: 43.194 $\pm$ 0.007 χ^2 /NDF:2201550.9/30

Out: 42.920 $\pm$ 0.007 χ^2 /NDF:2712045.5/35

All: 43.052 $\pm$ 0.005 χ^2 /NDF: 4914367.2/66

asym_sam_37_26_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 36.327 ± 93.563 $\chi^2/\text{NDF}: 11.4/15$

Left Out: -161.310 ± 37.161 $\chi^2/\text{NDF}: 19.8/16$

Right Out: 119.166 ± 95.833 $\chi^2/\text{NDF}: 16.0/18$

Left In: 33.271 ± 38.540 $\chi^2/\text{NDF}: 17.3/14$

Left: -67.561 ± 26.751 $\chi^2/\text{NDF}: 50.3/31$

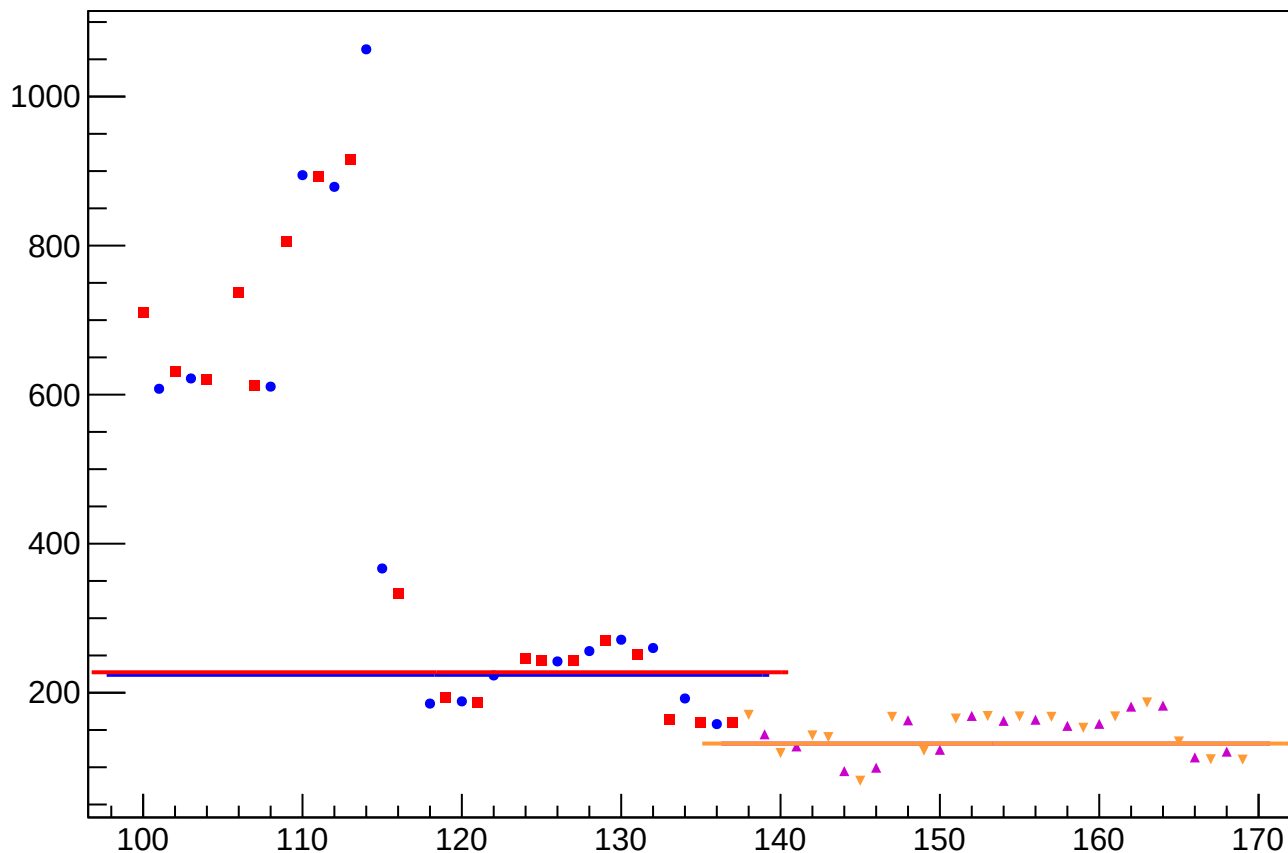
Right: 76.754 ± 66.947 $\chi^2/\text{NDF}: 27.8/34$

In: 33.714 ± 35.635 $\chi^2/\text{NDF}: 28.7/30$

Out: -124.648 ± 34.648 $\chi^2/\text{NDF}: 43.3/35$

All: -47.691 ± 24.841 $\chi^2/\text{NDF}: 82.2/66$

asym_sam_37_26_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 224.042 $\pm$ 0.066 χ^2 /NDF: 2968054.7/15

Left Out: 131.808 $\pm$ 0.026 χ^2 /NDF: 1461008.3/16

Right Out: 227.451 $\pm$ 0.068 χ^2 /NDF: 3640634.3/18

Left In: 131.792 $\pm$ 0.027 χ^2 /NDF: 1073782.1/14

Left: 131.800 $\pm$ 0.019 χ^2 /NDF: 2534790.7/31

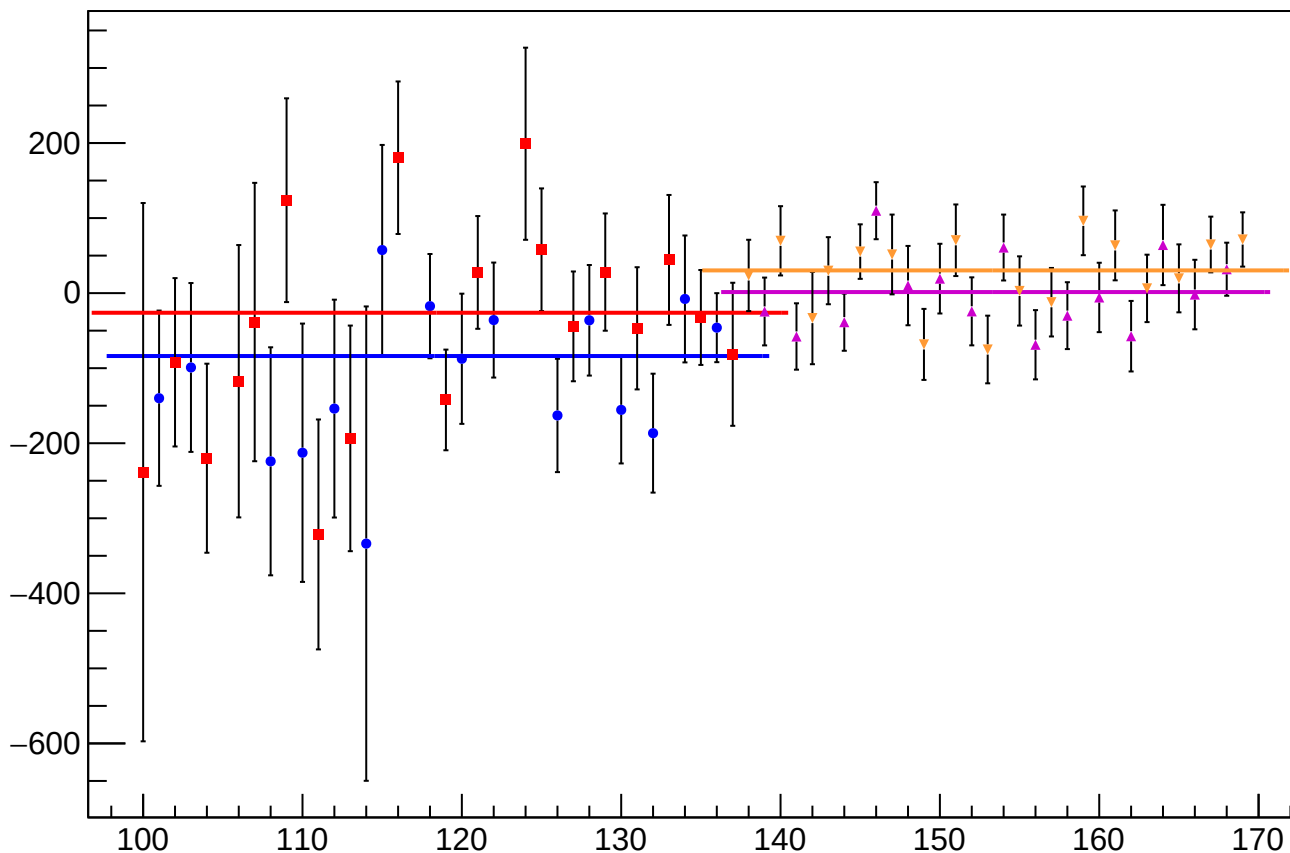
Right: 225.705 $\pm$ 0.047 χ^2 /NDF: 6609984.7/34

In: 145.173 $\pm$ 0.025 χ^2 /NDF: 5704064.7/30

Out: 144.310 $\pm$ 0.024 χ^2 /NDF: 6833305.7/35

All: 144.729 $\pm$ 0.018 χ^2 /NDF: 12537974.4/66

cor_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Left: 16.575 ± 7.845 $\chi^2/\text{NDF}: 42.9/31$

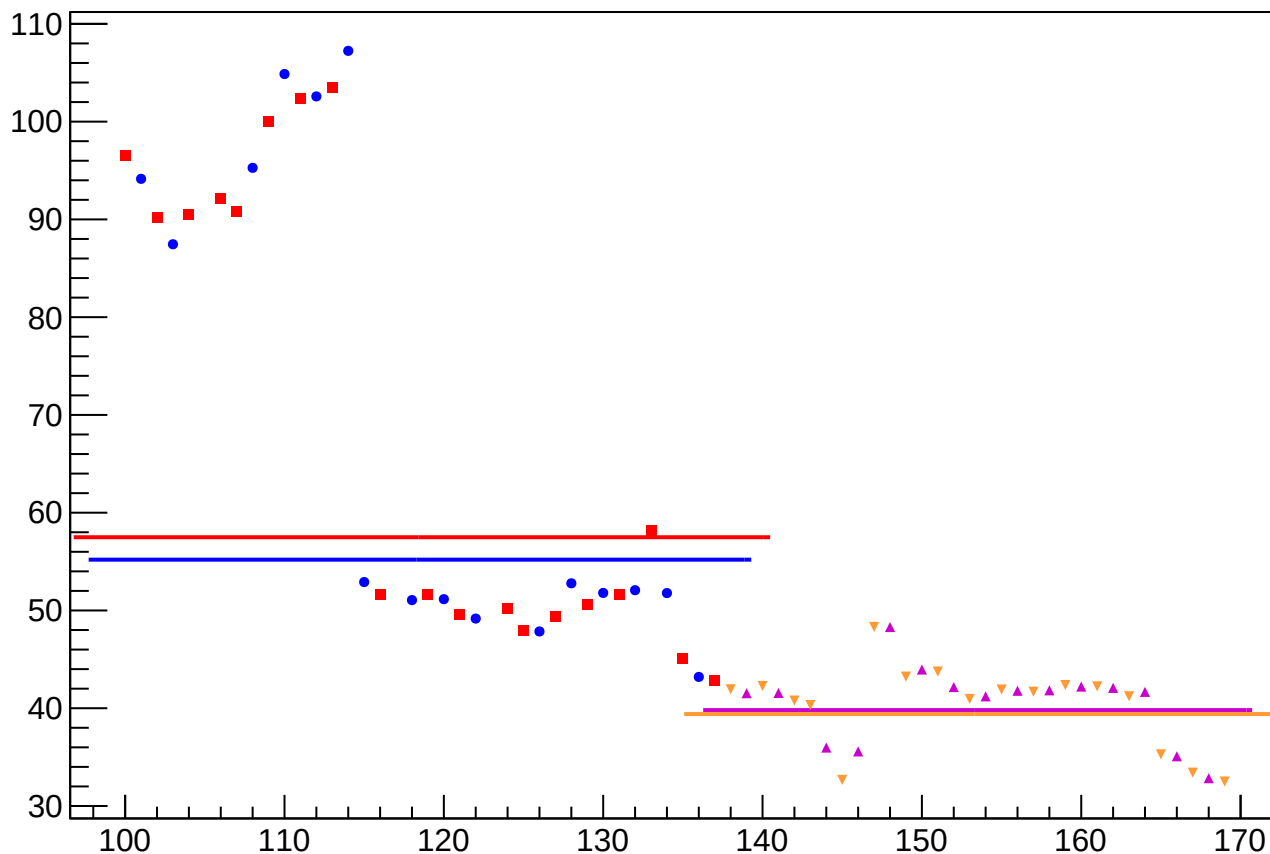
Right: -55.815 ± 15.376 $\chi^2/\text{NDF}: 37.0/34$

In: -17.317 ± 10.053 $\chi^2/\text{NDF}: 43.1/30$

Out: 19.335 ± 9.721 $\chi^2/\text{NDF}: 47.5/35$

All: 1.623 ± 6.988 $\chi^2/\text{NDF}: 97.4/66$

cor_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 55.198 $\pm$ 0.015 χ^2 /NDF: 1152581.3/15

Left Out: 39.404 $\pm$ 0.008 χ^2 /NDF: 344004.7/16

Right Out: 57.490 $\pm$ 0.016 χ^2 /NDF: 1274387.3/18

Left In: 39.809 $\pm$ 0.008 χ^2 /NDF: 244875.2/14

Left: 39.597 $\pm$ 0.006 χ^2 /NDF: 590211.3/31

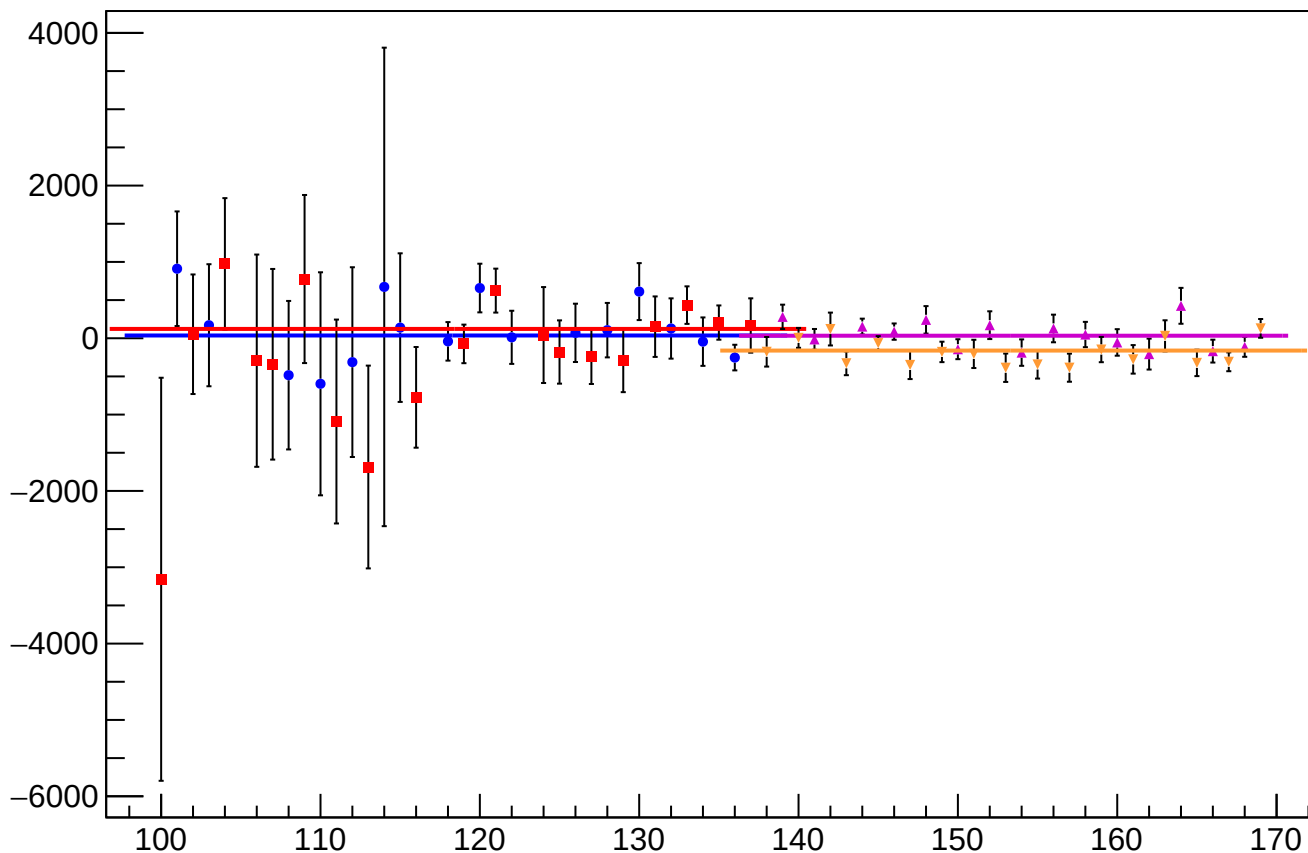
Right: 56.311 $\pm$ 0.011 χ^2 /NDF: 2438075.6/34

In: 43.194 $\pm$ 0.007 χ^2 /NDF: 2201551.1/30

Out: 42.913 $\pm$ 0.007 χ^2 /NDF: 2701012.2/35

All: 43.049 $\pm$ 0.005 χ^2 /NDF: 4903369.0/66

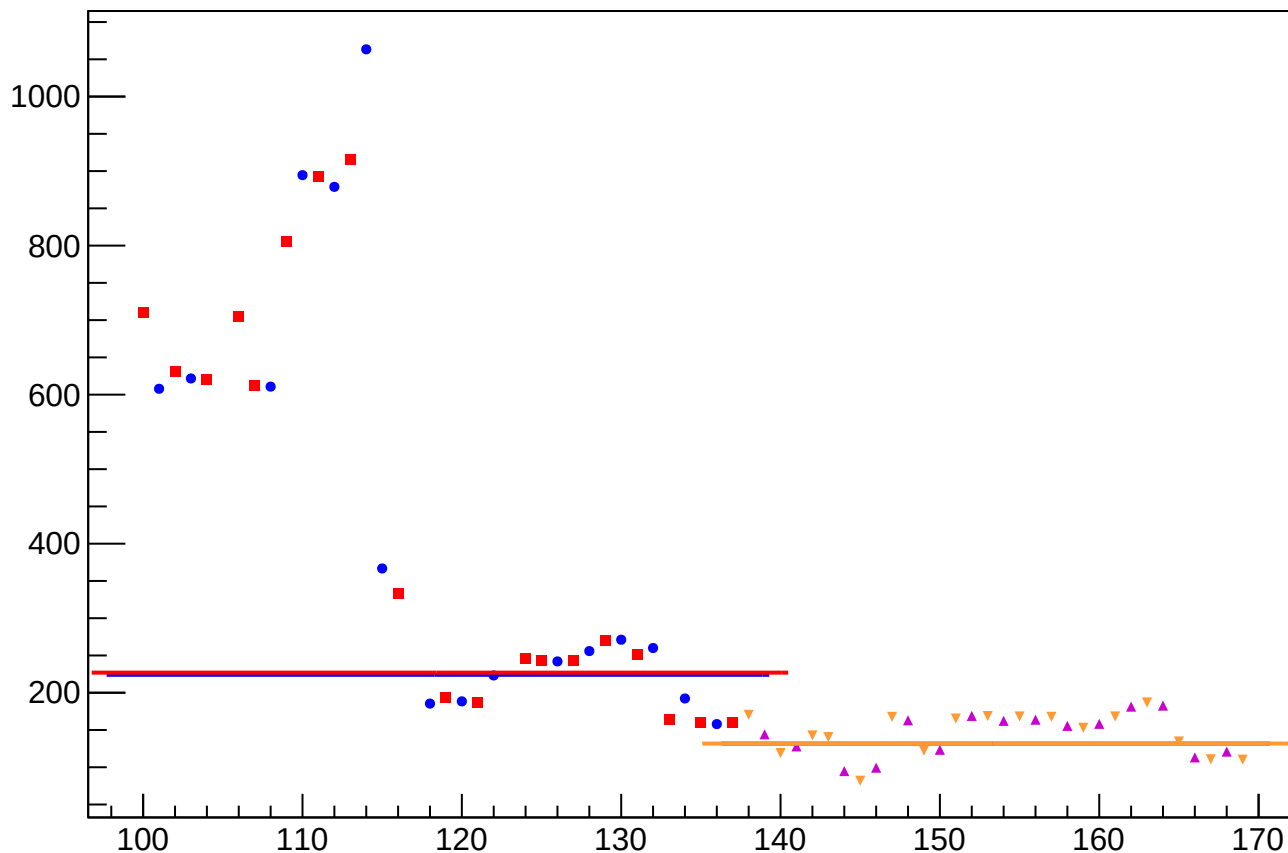
asym_sam_37_26_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 36.327 ± 93.563 $\chi^2/\text{NDF}: 11.4/15$
 Left Out: -161.311 ± 37.161 $\chi^2/\text{NDF}: 19.8/16$
 Right Out: 122.289 ± 95.865 $\chi^2/\text{NDF}: 15.6/18$
 Left In: 33.272 ± 38.540 $\chi^2/\text{NDF}: 17.3/14$

Left: -67.561 ± 26.751 $\chi^2/\text{NDF}: 50.3/31$
 Right: 78.263 ± 66.958 $\chi^2/\text{NDF}: 27.4/34$
 In: 33.715 ± 35.635 $\chi^2/\text{NDF}: 28.7/30$
 Out: -124.262 ± 34.649 $\chi^2/\text{NDF}: 43.0/35$
 All: -47.489 ± 24.842 $\chi^2/\text{NDF}: 81.8/66$

asym_sam_37_26_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 224.042 $\pm$ 0.066 χ^2 /NDF: 2968059.8/15

Left Out: 131.808 $\pm$ 0.026 χ^2 /NDF: 1461008.3/16

Right Out: 226.971 $\pm$ 0.068 χ^2 /NDF: 3571946.9/18

Left In: 131.792 $\pm$ 0.027 χ^2 /NDF: 1073783.4/14

Left: 131.800 $\pm$ 0.019 χ^2 /NDF: 2534791.9/31

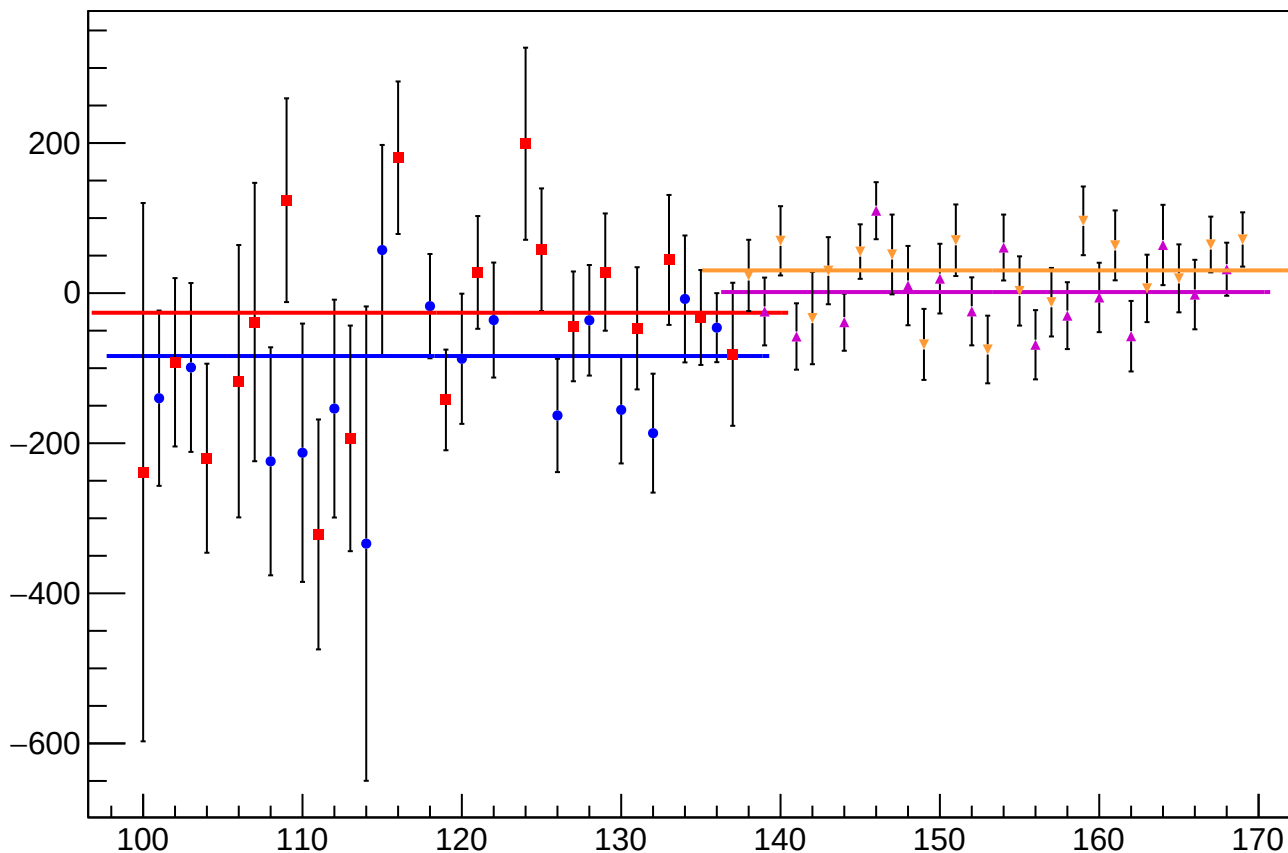
Right: 225.471 $\pm$ 0.047 χ^2 /NDF: 6540963.0/34

In: 145.173 $\pm$ 0.025 χ^2 /NDF: 5704073.2/30

Out: 144.240 $\pm$ 0.025 χ^2 /NDF: 6746310.8/35

All: 144.694 $\pm$ 0.018 χ^2 /NDF: 12451089.5/66

eigen_cor_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -83.805 ± 21.434 $\chi^2/\text{NDF}: 10.5/15$

Left Out: 30.283 ± 10.828 $\chi^2/\text{NDF}: 19.3/16$

Right Out: -26.142 ± 22.069 $\chi^2/\text{NDF}: 22.9/18$

Left In: 1.431 ± 11.382 $\chi^2/\text{NDF}: 20.2/14$

Left: 16.575 ± 7.845 $\chi^2/\text{NDF}: 42.9/31$

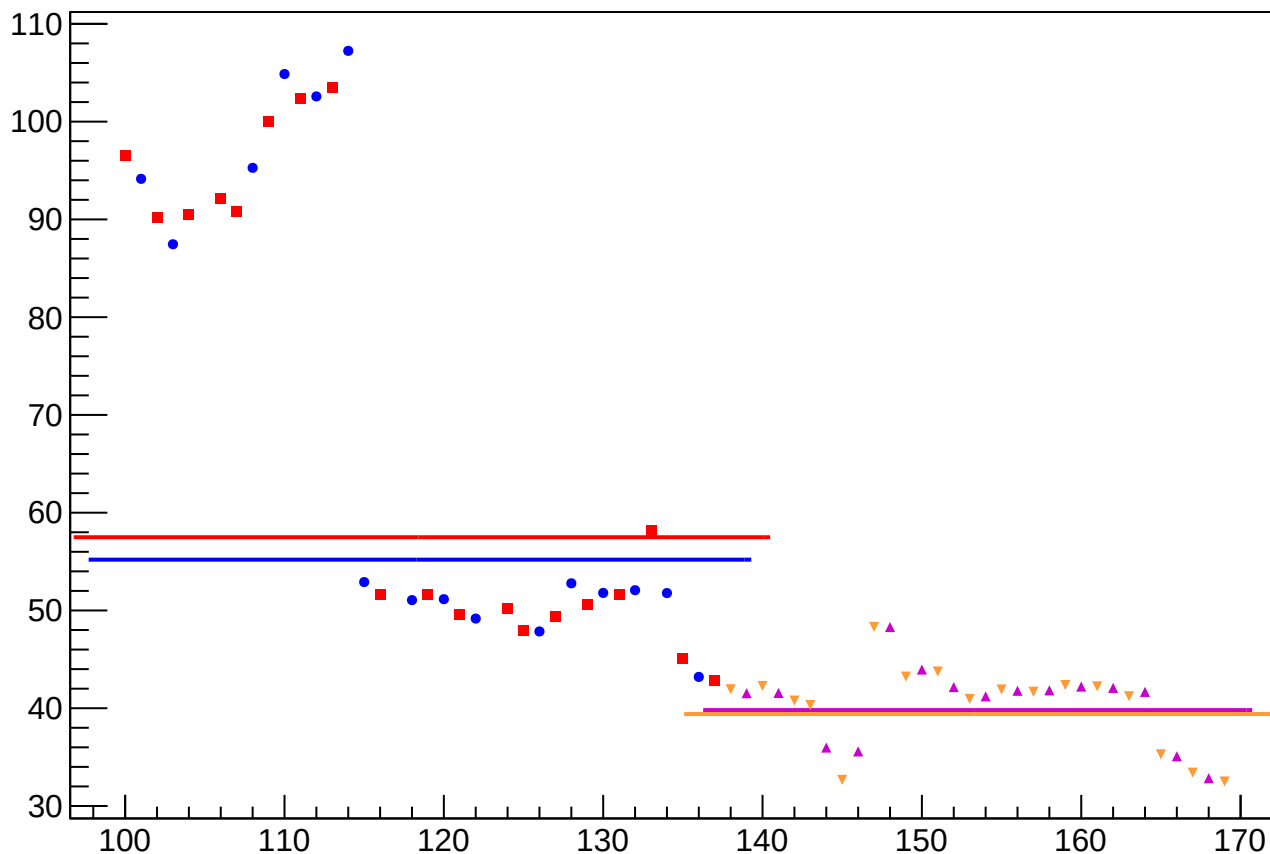
Right: -55.815 ± 15.376 $\chi^2/\text{NDF}: 37.0/34$

In: -17.317 ± 10.053 $\chi^2/\text{NDF}: 43.1/30$

Out: 19.335 ± 9.721 $\chi^2/\text{NDF}: 47.5/35$

All: 1.623 ± 6.988 $\chi^2/\text{NDF}: 97.4/66$

eigen_cor_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 55.198+/-0.015 χ^2/NDF : 1152581.3/15

Left Out: 39.404+/-0.008 χ^2/NDF : 344004.7/16

Right Out: 57.490+/-0.016 χ^2/NDF : 1274387.3/18

Left In: 39.809+/-0.008 χ^2/NDF : 244875.2/14

Left: 39.597+/-0.006 χ^2/NDF : 590211.3/31

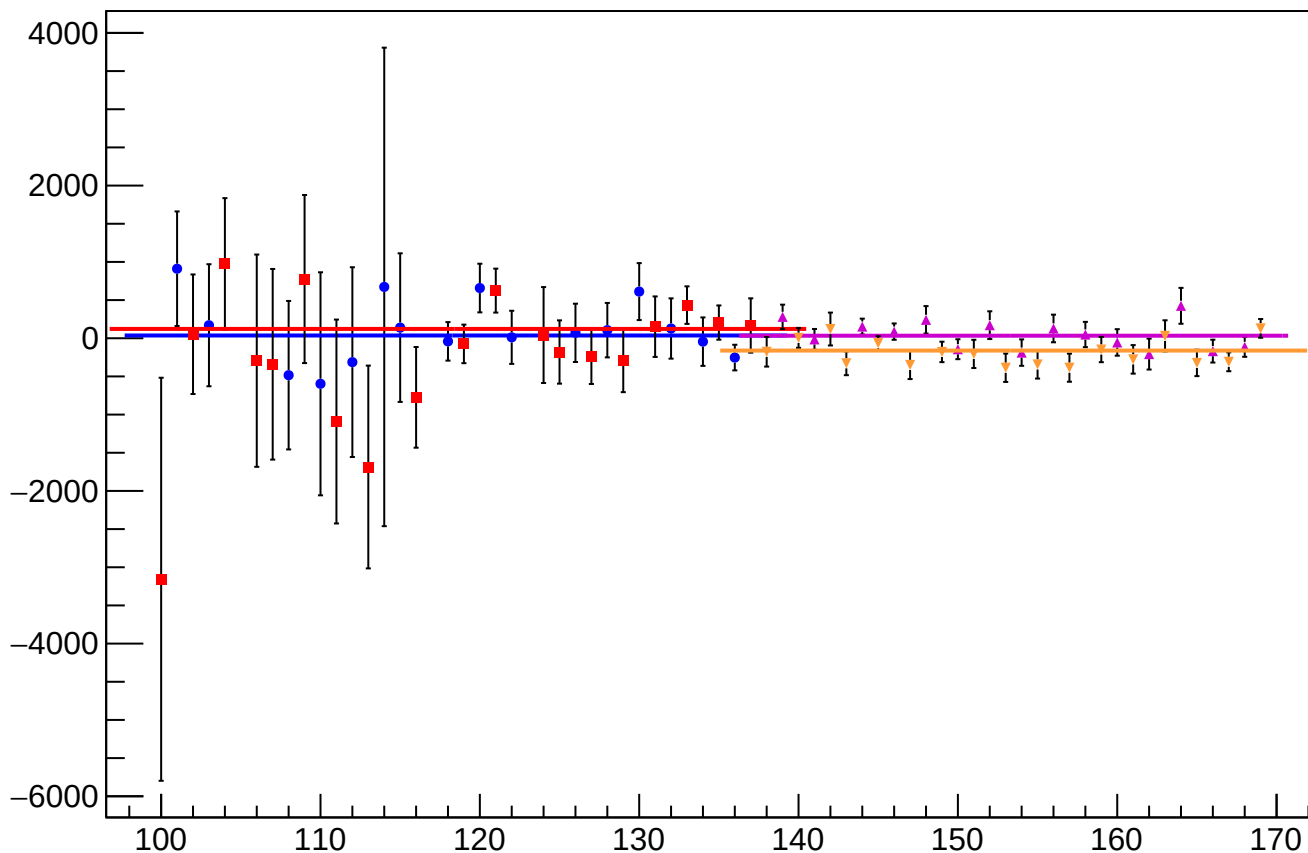
Right: 56.311+/-0.011 χ^2/NDF : 2438075.6/34

In: 43.194+/-0.007 χ^2/NDF : 2201551.1/30

Out: 42.913+/-0.007 χ^2/NDF : 2701012.2/35

All: 43.049+/-0.005 χ^2/NDF : 4903369.0/66

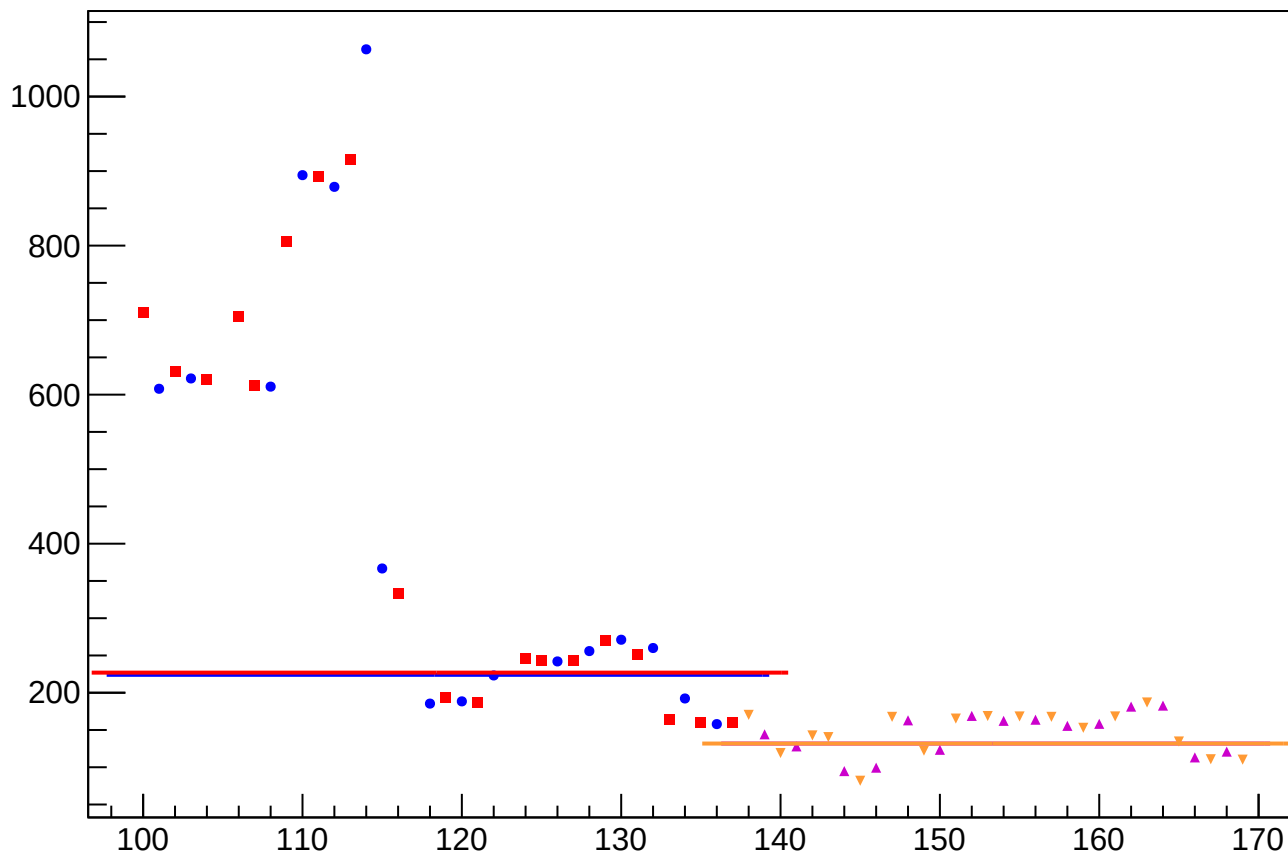
asym_sam_37_26_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 36.327 ± 93.563 $\chi^2/\text{NDF}: 11.4/15$
 Left Out: -161.311 ± 37.161 $\chi^2/\text{NDF}: 19.8/16$
 Right Out: 122.289 ± 95.865 $\chi^2/\text{NDF}: 15.6/18$
 Left In: 33.272 ± 38.540 $\chi^2/\text{NDF}: 17.3/14$

Left: -67.561 ± 26.751 $\chi^2/\text{NDF}: 50.3/31$
 Right: 78.263 ± 66.958 $\chi^2/\text{NDF}: 27.4/34$
 In: 33.715 ± 35.635 $\chi^2/\text{NDF}: 28.7/30$
 Out: -124.262 ± 34.649 $\chi^2/\text{NDF}: 43.0/35$
 All: -47.489 ± 24.842 $\chi^2/\text{NDF}: 81.8/66$

asym_sam_37_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 224.042+/-0.066 χ^2/NDF : 2968059.8/15

Left Out: 131.808+/-0.026 χ^2/NDF :1461008.3/16

Right Out: 226.971+/-0.068 χ^2/NDF : 3571946.9/18

Left In: 131.792+/-0.027 χ^2/NDF :1073783.4/14

Left: 131.800+/-0.019 χ^2/NDF : 2534791.9/31

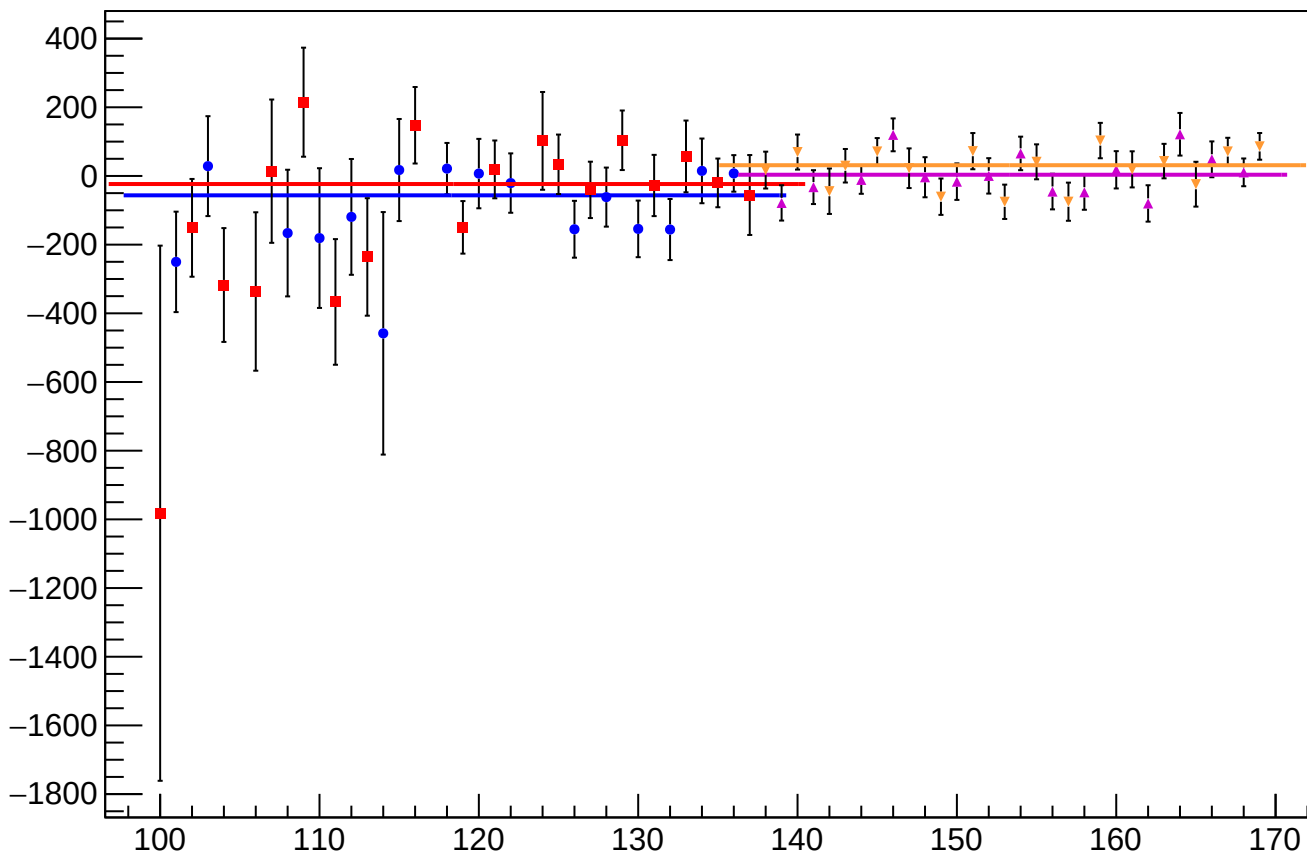
Right: 225.471+/-0.047 χ^2/NDF : 6540963.0/34

In: 145.173+/-0.025 χ^2/NDF :5704073.2/30

Out: 144.240+/-0.025 χ^2/NDF :6746310.8/35

All: 144.694+/-0.018 χ^2/NDF : 12451089.5/66

dit_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -56.414 ± 24.489 χ^2/NDF : 12.3/15

Left Out: 31.295 ± 12.109 χ^2/NDF : 20.6/16

Right Out: -23.495 ± 25.161 χ^2/NDF : 24.1/18

Left In: 3.565 ± 12.947 χ^2/NDF : 19.7/14

Left: 18.356 ± 8.844 χ^2/NDF : 42.8/31

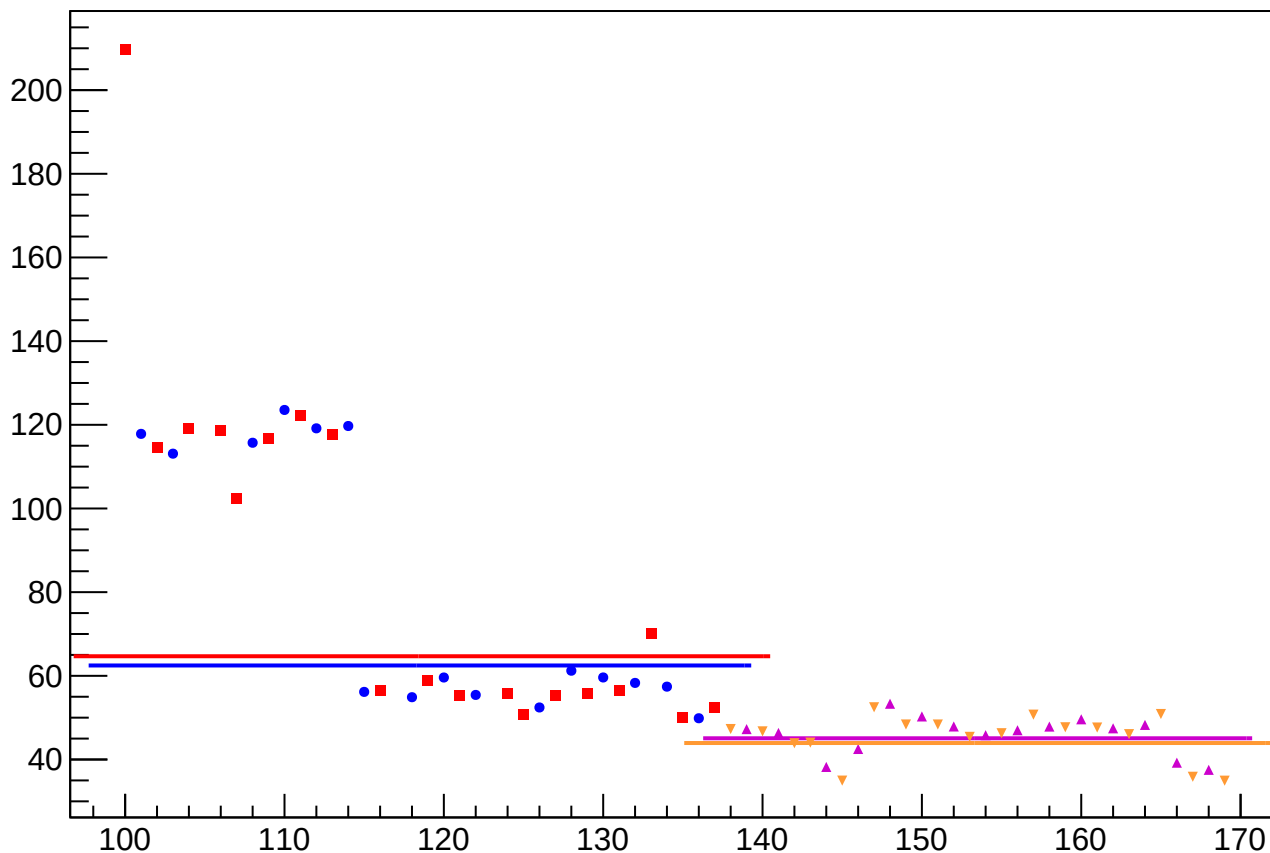
Right: -40.400 ± 17.549 χ^2/NDF : 37.2/34

In: -9.537 ± 11.446 χ^2/NDF : 36.7/30

Out: 20.991 ± 10.911 χ^2/NDF : 48.6/35

All: 6.457 ± 7.897 χ^2/NDF : 88.9/66

dit_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 62.474 $\pm$ 0.017 χ^2/NDF : 1348224.3/15

Left Out: 43.940 $\pm$ 0.009 χ^2/NDF : 462895.4/16

Right Out: 64.680 $\pm$ 0.018 χ^2/NDF : 1590446.9/18

Left In: 45.072 $\pm$ 0.009 χ^2/NDF : 259943.4/14

Left: 44.468 $\pm$ 0.006 χ^2/NDF : 731005.8/31

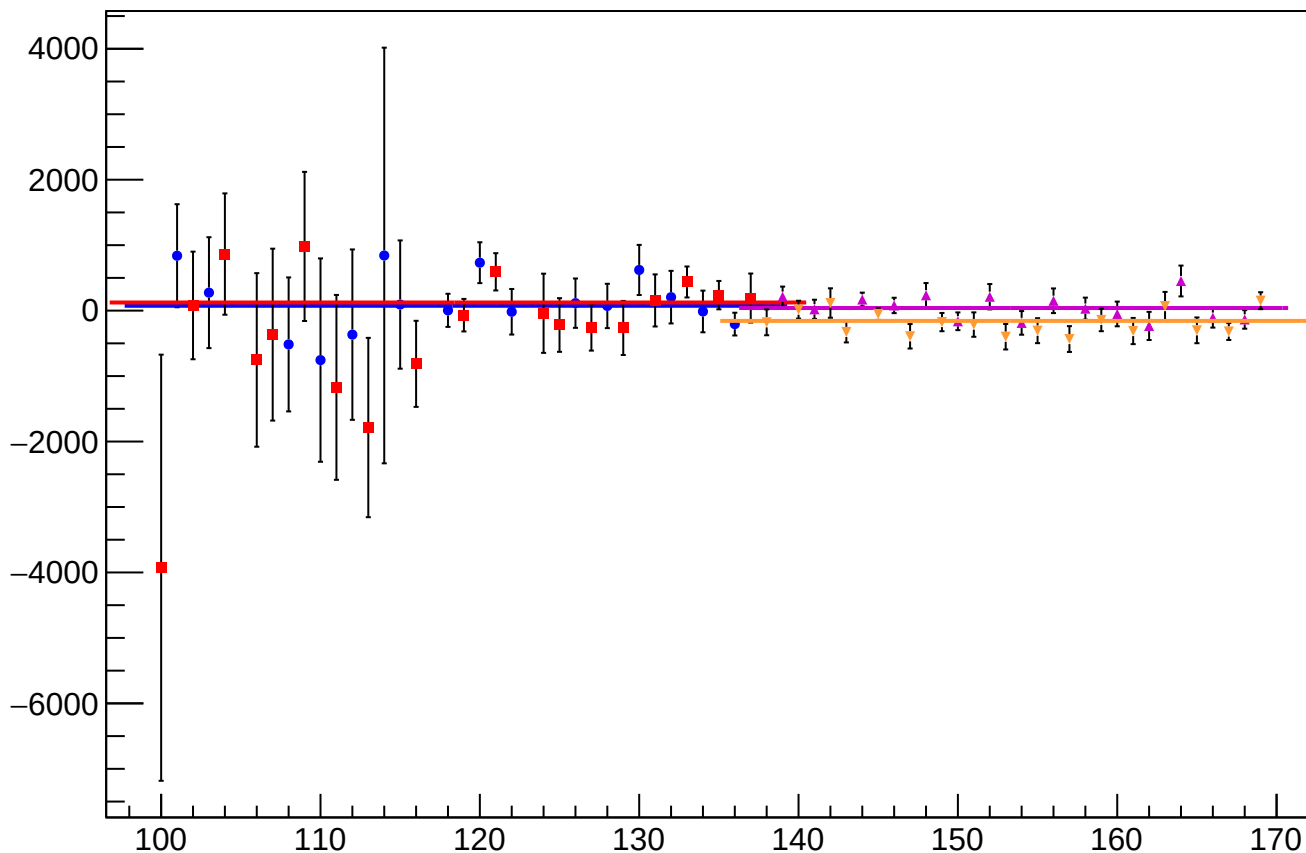
Right: 63.547 $\pm$ 0.012 χ^2/NDF : 2946567.9/34

In: 48.874 $\pm$ 0.008 χ^2/NDF : 2397467.4/30

Out: 47.840 $\pm$ 0.008 χ^2/NDF : 3156824.2/35

All: 48.332 $\pm$ 0.006 χ^2/NDF : 5562837.4/66

asym_sam_37_26_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 74.294+/-94.492 χ^2/NDF : 11.2/15

Left Out: -156.691+/-38.476 χ^2/NDF :20.9/16

Right Out: 124.201+/-94.665 χ^2/NDF : 16.3/18

Left In: 39.760+/-40.253 χ^2/NDF :16.3/14

Left: -62.897+/-27.813 χ^2/NDF : 49.7/31

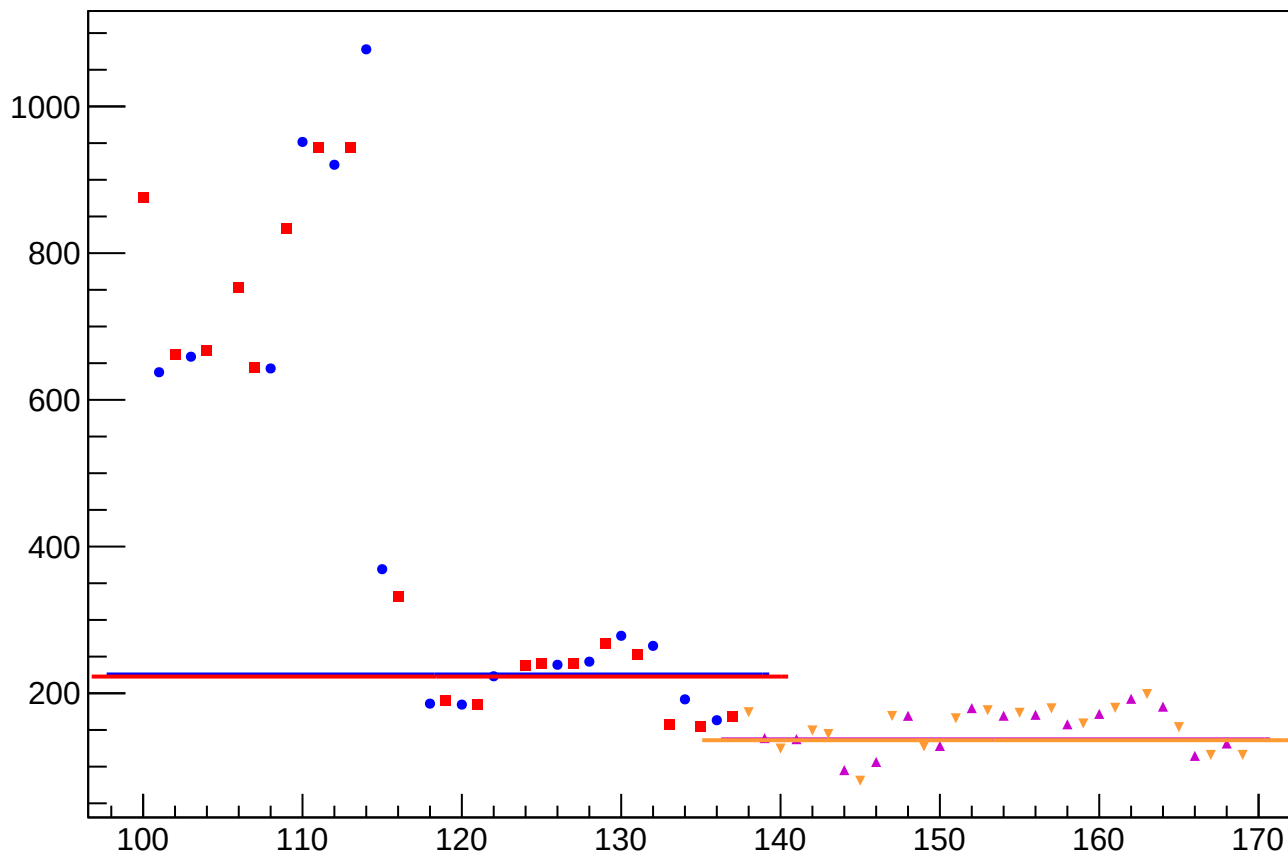
Right: 99.202+/-66.877 χ^2/NDF : 27.7/34

In: 45.064+/-37.032 χ^2/NDF :27.7/30

Out: -116.869+/-35.644 χ^2/NDF :44.8/35

All: -38.995+/-25.681 χ^2/NDF : 82.4/66

asym_sam_37_26_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 225.614 $\pm$ 0.067 χ^2 /NDF: 3026007.7/15

Left Out: 136.009 $\pm$ 0.027 χ^2 /NDF:1650386.5/16

Right Out: 222.786 $\pm$ 0.067 χ^2 /NDF: 3848156.1/18

Left In: 137.168 $\pm$ 0.028 χ^2 /NDF:1098035.0/14

Left: 136.562 $\pm$ 0.020 χ^2 /NDF: 2749288.0/31

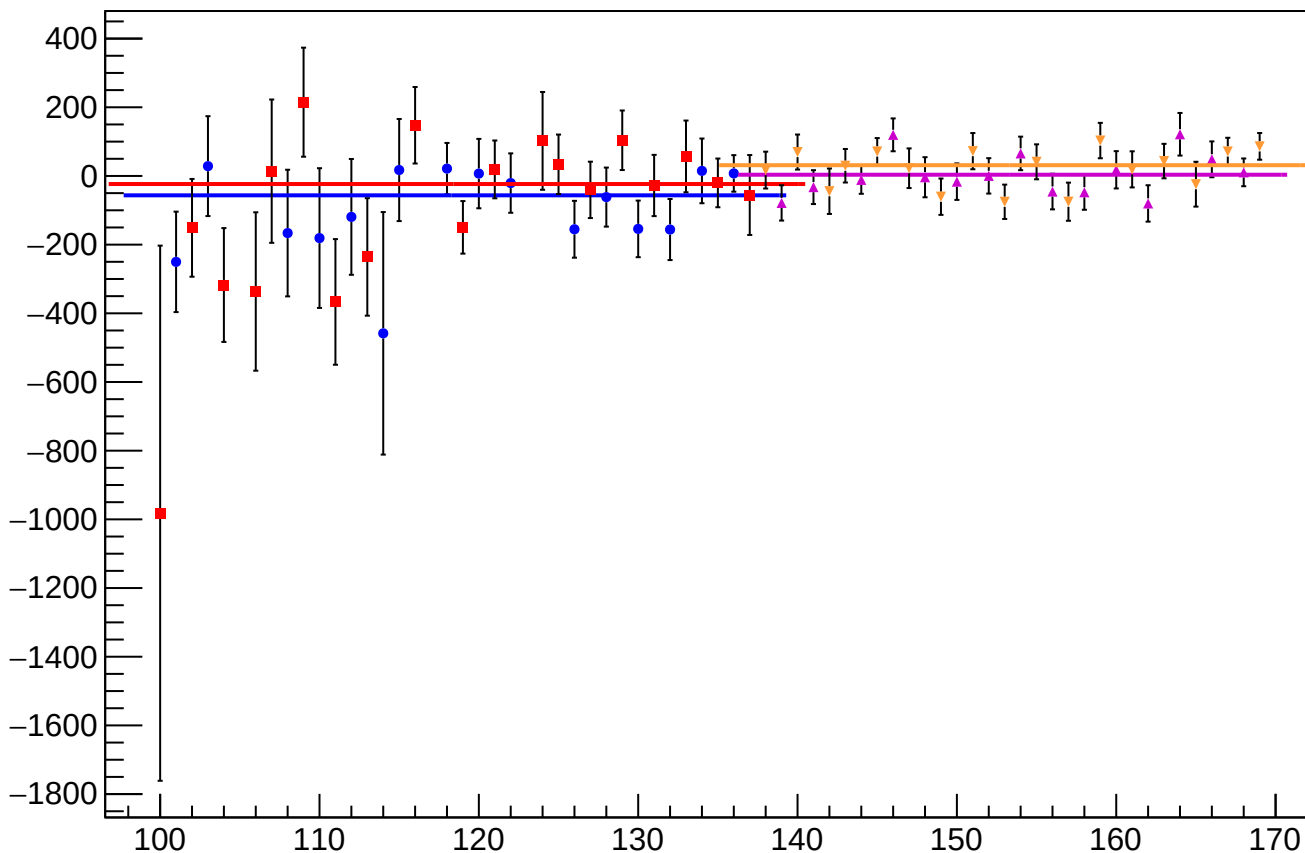
Right: 224.203 $\pm$ 0.047 χ^2 /NDF: 6875057.9/34

In: 150.753 $\pm$ 0.026 χ^2 /NDF:5607161.6/30

Out: 148.311 $\pm$ 0.025 χ^2 /NDF:6940862.1/35

All: 149.485 $\pm$ 0.018 χ^2 /NDF: 12552535.4/66

eigen_dit_asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -56.415 ± 24.489 $\chi^2/\text{NDF}: 12.3/15$

Left Out: 31.296 ± 12.109 $\chi^2/\text{NDF}: 20.6/16$

Right Out: -23.498 ± 25.160 $\chi^2/\text{NDF}: 24.1/18$

Left In: 3.566 ± 12.947 $\chi^2/\text{NDF}: 19.7/14$

Left: 18.357 ± 8.844 $\chi^2/\text{NDF}: 42.8/31$

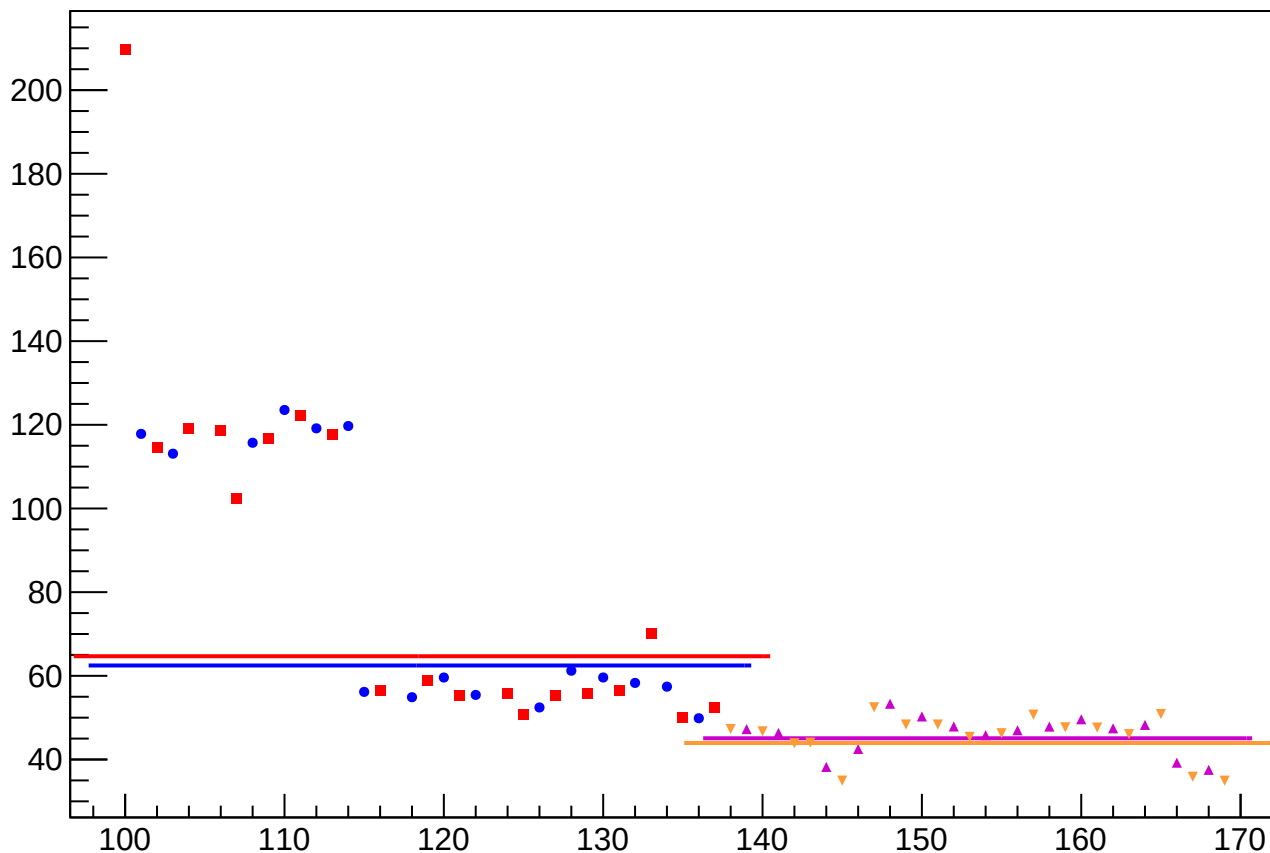
Right: -40.402 ± 17.549 $\chi^2/\text{NDF}: 37.2/34$

In: -9.537 ± 11.446 $\chi^2/\text{NDF}: 36.7/30$

Out: 20.991 ± 10.911 $\chi^2/\text{NDF}: 48.6/35$

All: 6.457 ± 7.897 $\chi^2/\text{NDF}: 88.9/66$

eigen_dit_asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 62.474+/-0.017 χ^2/NDF : 1348204.7/15

Left Out: 43.940+/-0.009 χ^2/NDF : 462908.5/16

Right Out: 64.680+/-0.018 χ^2/NDF : 1590426.1/18

Left In: 45.072+/-0.009 χ^2/NDF : 259948.2/14

Left: 44.468+/-0.006 χ^2/NDF : 731024.0/31

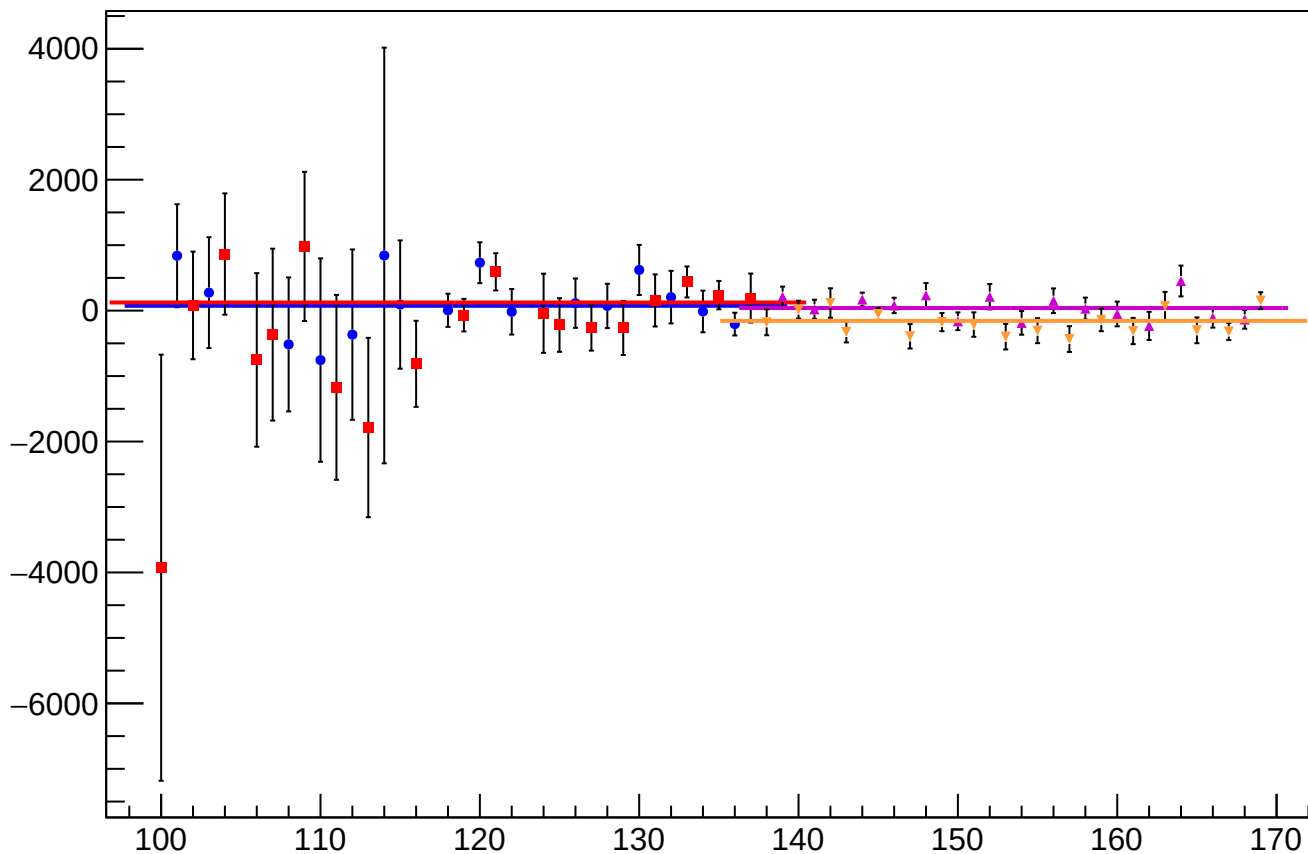
Right: 63.547+/-0.012 χ^2/NDF : 2946529.3/34

In: 48.874+/-0.008 χ^2/NDF : 2397408.9/30

Out: 47.840+/-0.008 χ^2/NDF : 3156790.1/35

All: 48.332+/-0.006 χ^2/NDF : 5562744.5/66

asym_sam_37_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 74.295+/-94.492 χ^2/NDF : 11.2/15

Left Out: -156.692+/-38.476 χ^2/NDF :20.9/16

Right Out: 124.199+/-94.666 χ^2/NDF : 16.3/18

Left In: 39.760+/-40.253 χ^2/NDF :16.3/14

Left: -62.897+/-27.813 χ^2/NDF : 49.7/31

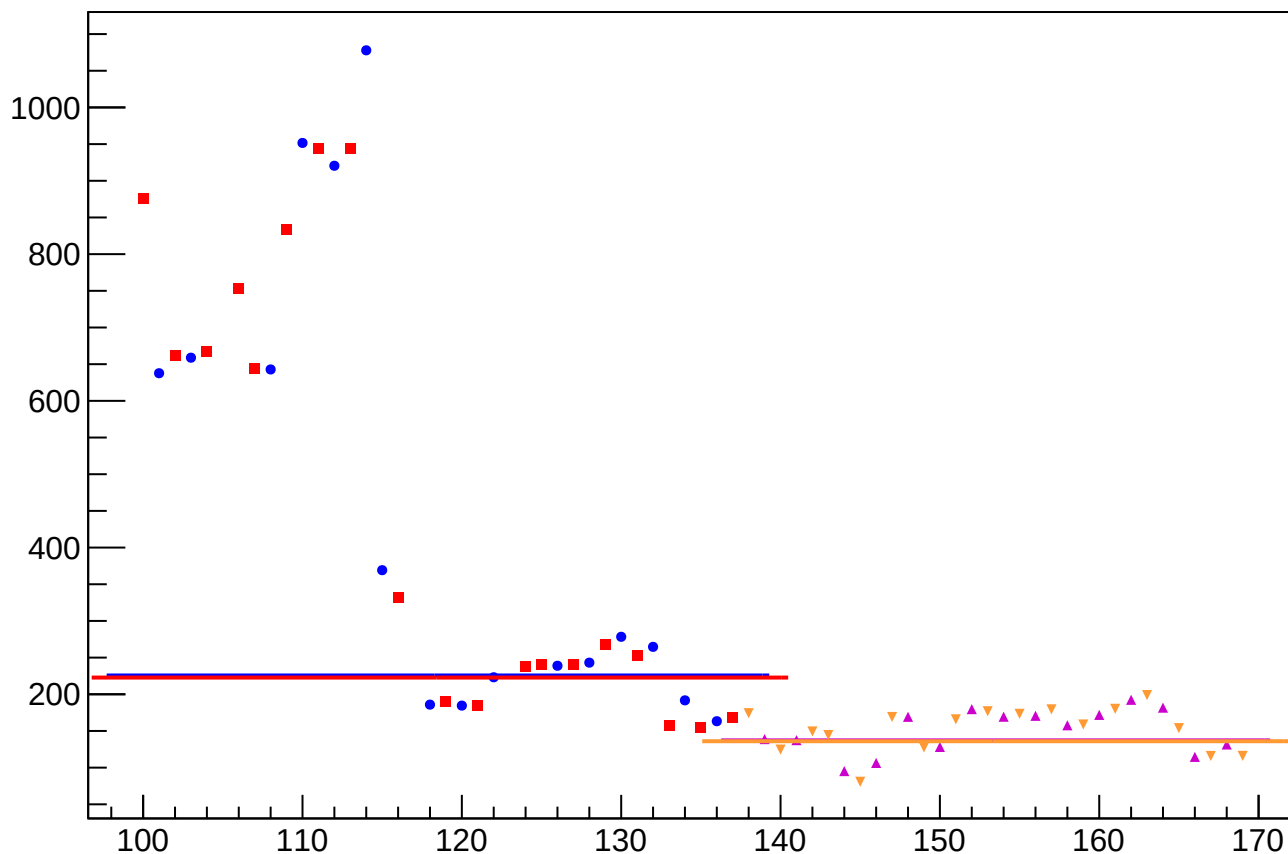
Right: 99.201+/-66.877 χ^2/NDF : 27.7/34

In: 45.064+/-37.032 χ^2/NDF :27.7/30

Out: -116.869+/-35.644 χ^2/NDF :44.8/35

All: -38.995+/-25.681 χ^2/NDF : 82.4/66

asym_sam_37_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 225.614 $\pm$ 0.067 χ^2 /NDF: 3025994.8/15

Left Out: 136.009 $\pm$ 0.027 χ^2 /NDF:1650375.6/16

Right Out: 222.787 $\pm$ 0.067 χ^2 /NDF: 3848136.6/18

Left In: 137.168 $\pm$ 0.028 χ^2 /NDF:1098038.5/14

Left: 136.562 $\pm$ 0.020 χ^2 /NDF: 2749280.3/31

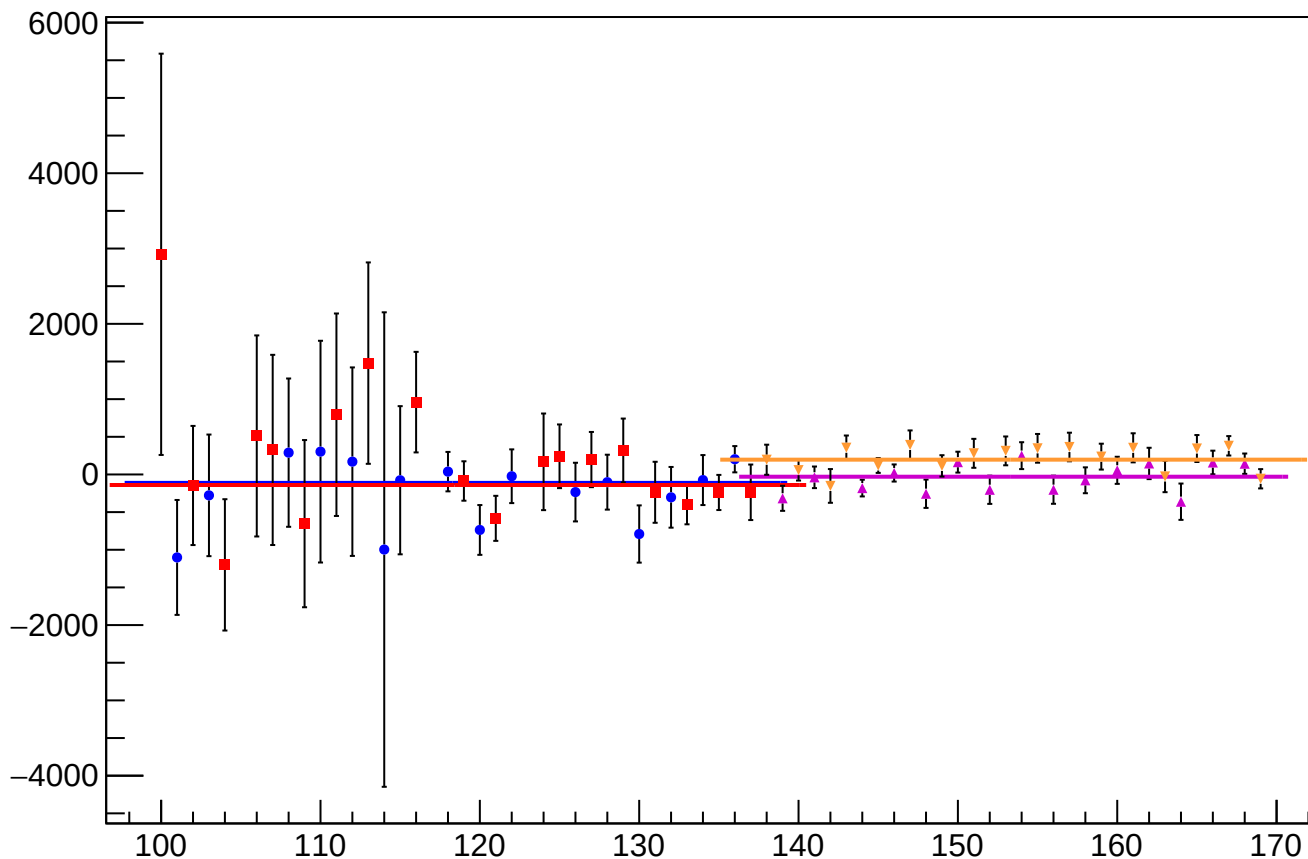
Right: 224.203 $\pm$ 0.047 χ^2 /NDF: 6875025.2/34

In: 150.753 $\pm$ 0.026 χ^2 /NDF:5607149.0/30

Out: 148.312 $\pm$ 0.025 χ^2 /NDF:6940833.2/35

All: 149.486 $\pm$ 0.018 χ^2 /NDF: 12552492.9/66

asym_sam_37_26_dd_mean vs Slug, Sign Corrected



Right In: -111.916+/-96.551 χ^2/NDF : 12.8/15

Left Out: 196.533+/-38.925 χ^2/NDF :16.8/16

Right Out: -139.974+/-99.174 χ^2/NDF : 14.6/18

Left In: -29.954+/-40.409 χ^2/NDF :18.6/14

Left: 87.527+/-28.034 χ^2/NDF : 51.7/31

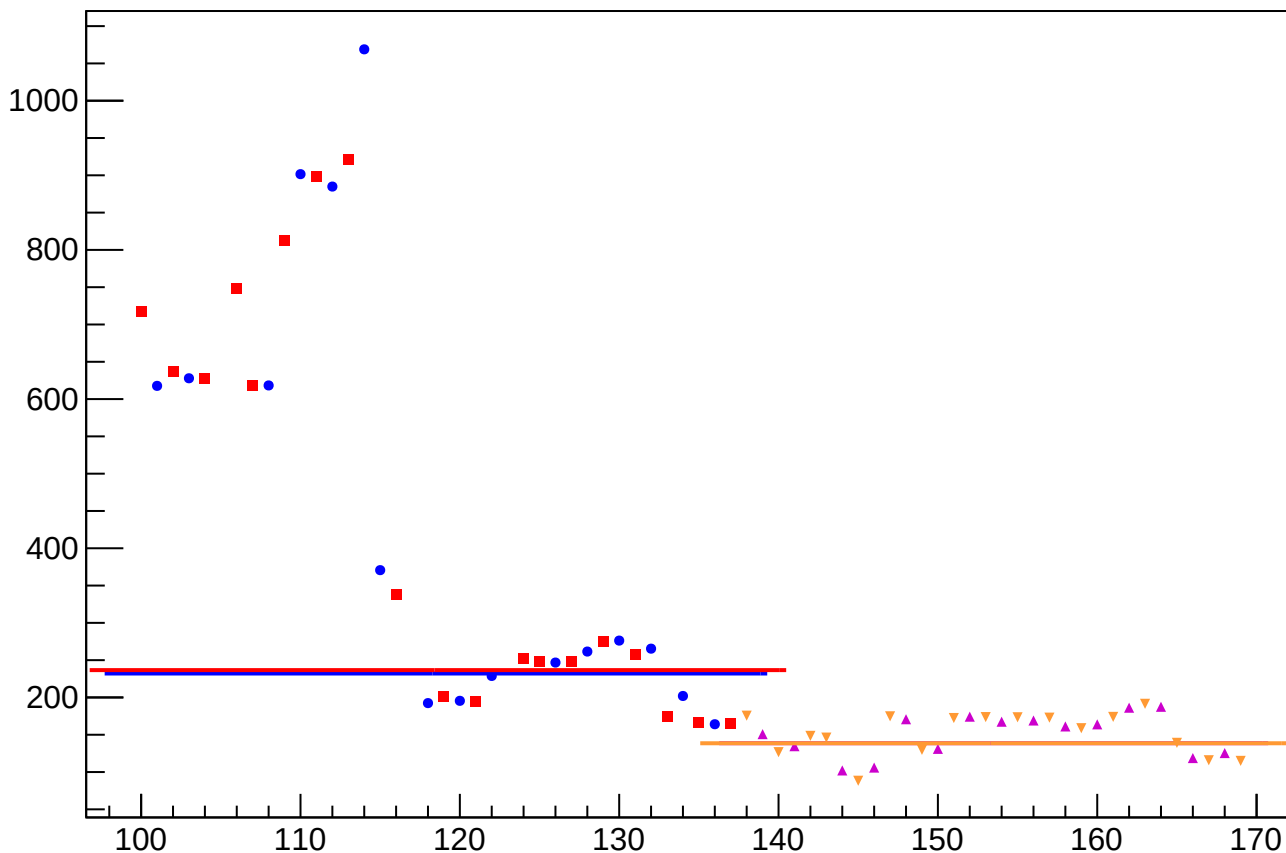
Right: -125.569+/-69.180 χ^2/NDF : 27.5/34

In: -42.171+/-37.276 χ^2/NDF :32.0/30

Out: 151.615+/-36.234 χ^2/NDF :41.5/35

All: 57.470+/-25.982 χ^2/NDF : 87.4/66

asym_sam_37_26_dd_rms vs Slug, Sign Corrected



Right In: 232.107+/-0.068 χ^2/NDF : 2885510.6/15

Left Out: 138.579+/-0.028 χ^2/NDF :1302644.5/16

Right Out: 236.647+/-0.070 χ^2/NDF : 3521033.7/18

Left In: 138.672+/-0.029 χ^2/NDF :946823.9/14

Left: 138.624+/-0.020 χ^2/NDF : 2249473.8/31

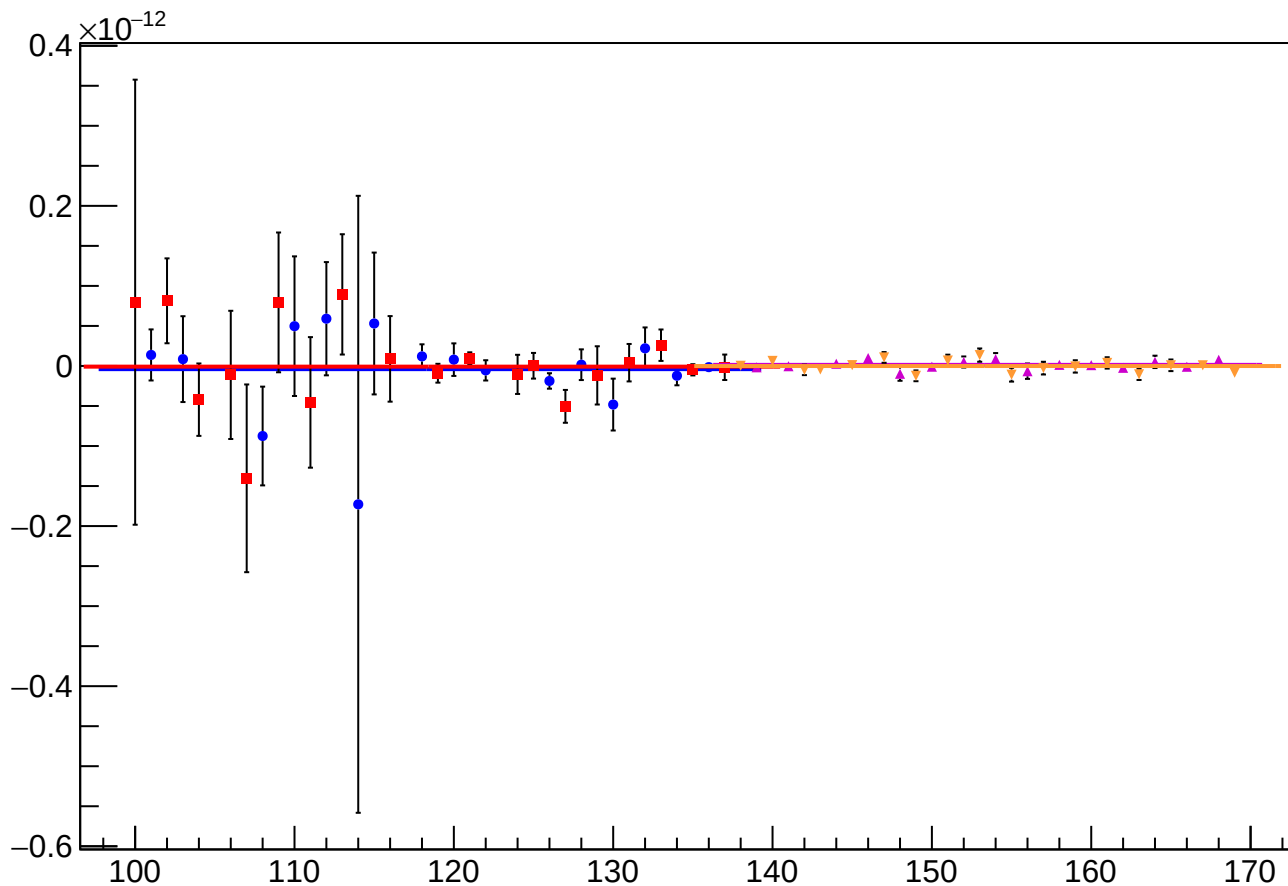
Right: 234.316+/-0.049 χ^2/NDF : 6408696.2/34

In: 152.599+/-0.026 χ^2/NDF :5426156.0/30

Out: 151.670+/-0.026 χ^2/NDF :6518268.0/35

All: 152.121+/-0.018 χ^2/NDF : 11945063.2/60

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 11.4/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 21.4/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 18.1/18

Left In: 0.000 ± 0.000 χ^2/NDF : 9.0/14

Left: 0.000 ± 0.000 χ^2/NDF : 31.0/31

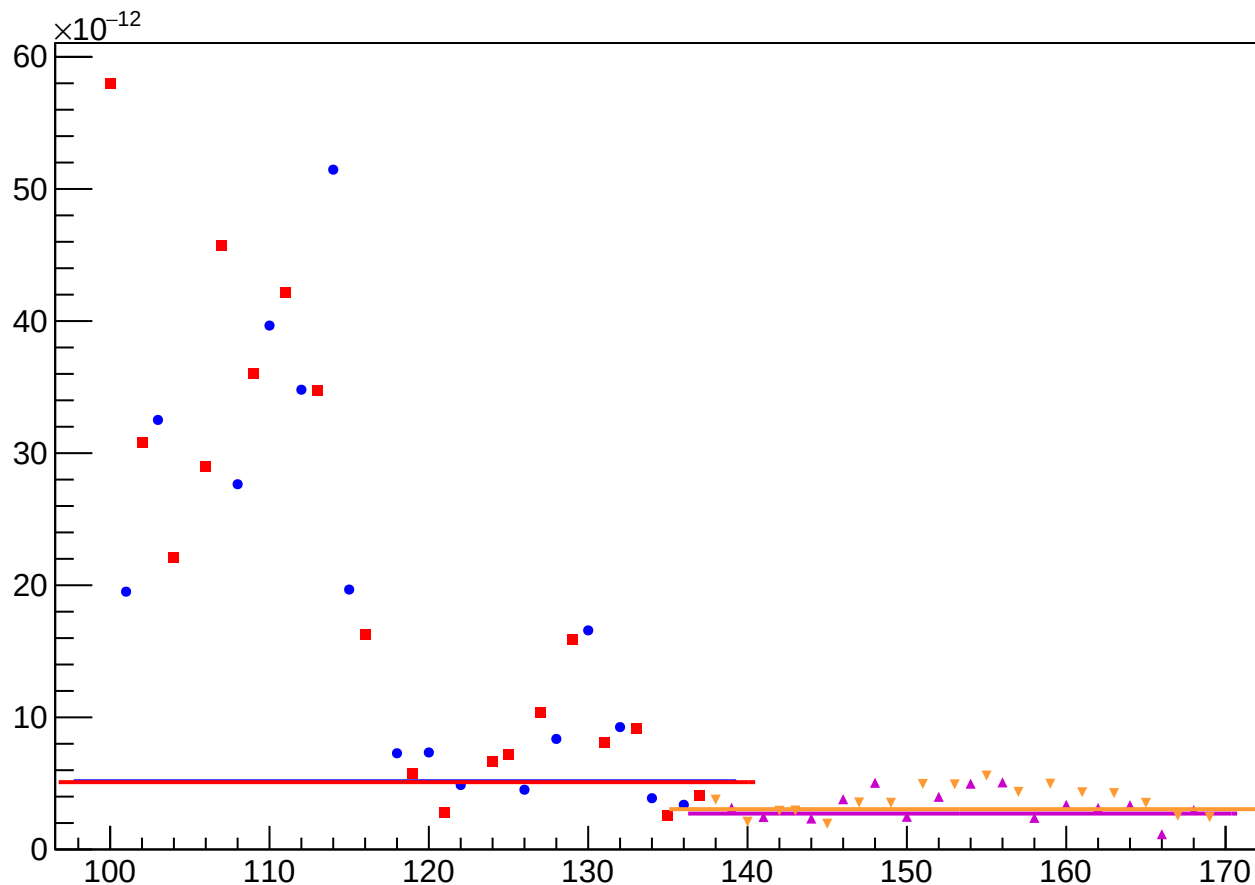
Right: -0.000 ± 0.000 χ^2/NDF : 29.8/34

In: 0.000 ± 0.000 χ^2/NDF : 22.3/30

Out: -0.000 ± 0.000 χ^2/NDF : 39.5/35

All: 0.000 ± 0.000 χ^2/NDF : 62.1/66

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2618432.0/15

Left Out: 0.000+/-0.000 χ^2/NDF :1218790.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3236196.8/18

Left In: 0.000+/-0.000 χ^2/NDF :1166649.0/14

Left: 0.000+/-0.000 χ^2/NDF : 2447219.9/31

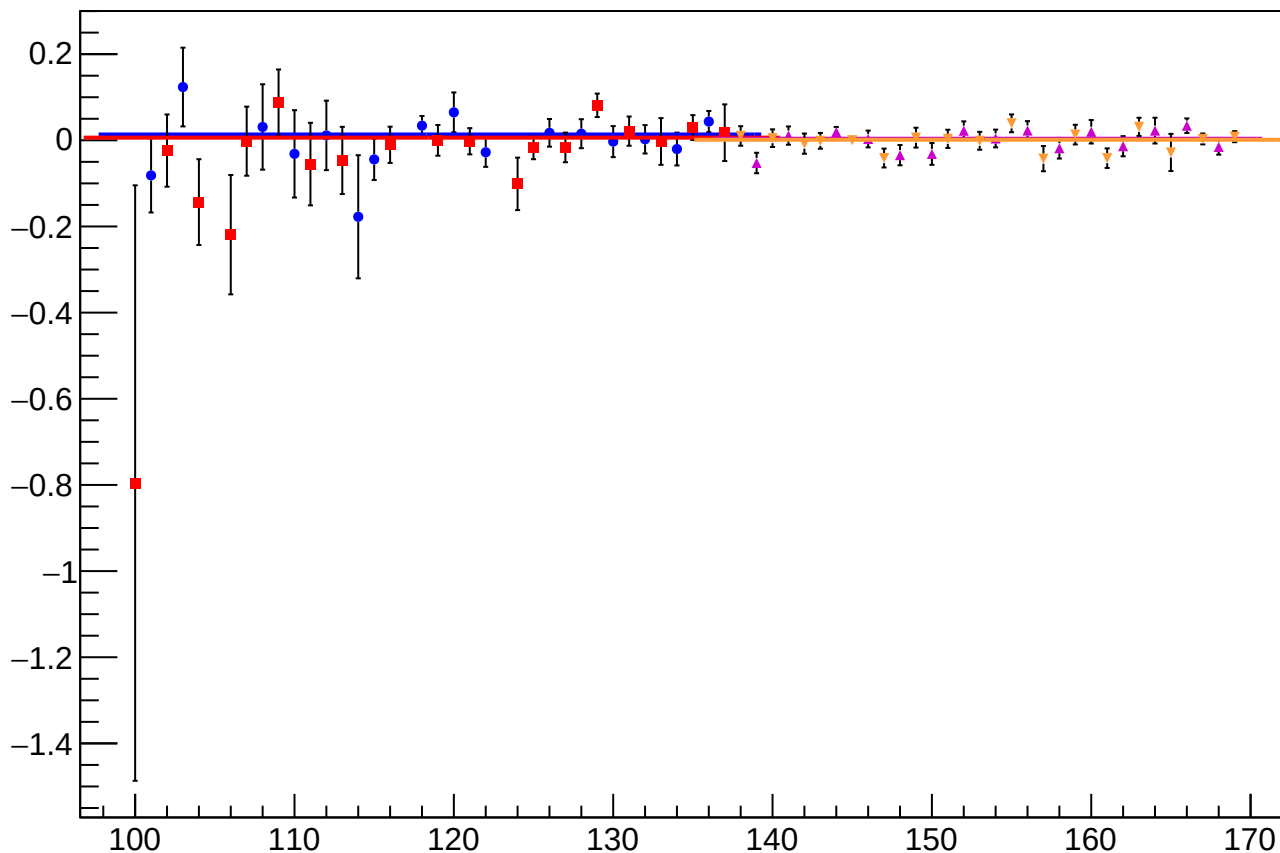
Right: 0.000+/-0.000 χ^2/NDF : 5854929.1/34

In: 0.000+/-0.000 χ^2/NDF :4569878.6/30

Out: 0.000+/-0.000 χ^2/NDF :4934690.2/35

All: 0.000+/-0.000 χ^2/NDF : 9546956.5/66

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.010 χ^2 /NDF: 12.3/15

Left Out: 0.001 $\pm$ 0.005 χ^2 /NDF:16.5/16

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: 0.004 $\pm$ 0.005 χ^2 /NDF:20.0/14

Left: 0.002 $\pm$ 0.003 χ^2 /NDF: 36.6/31

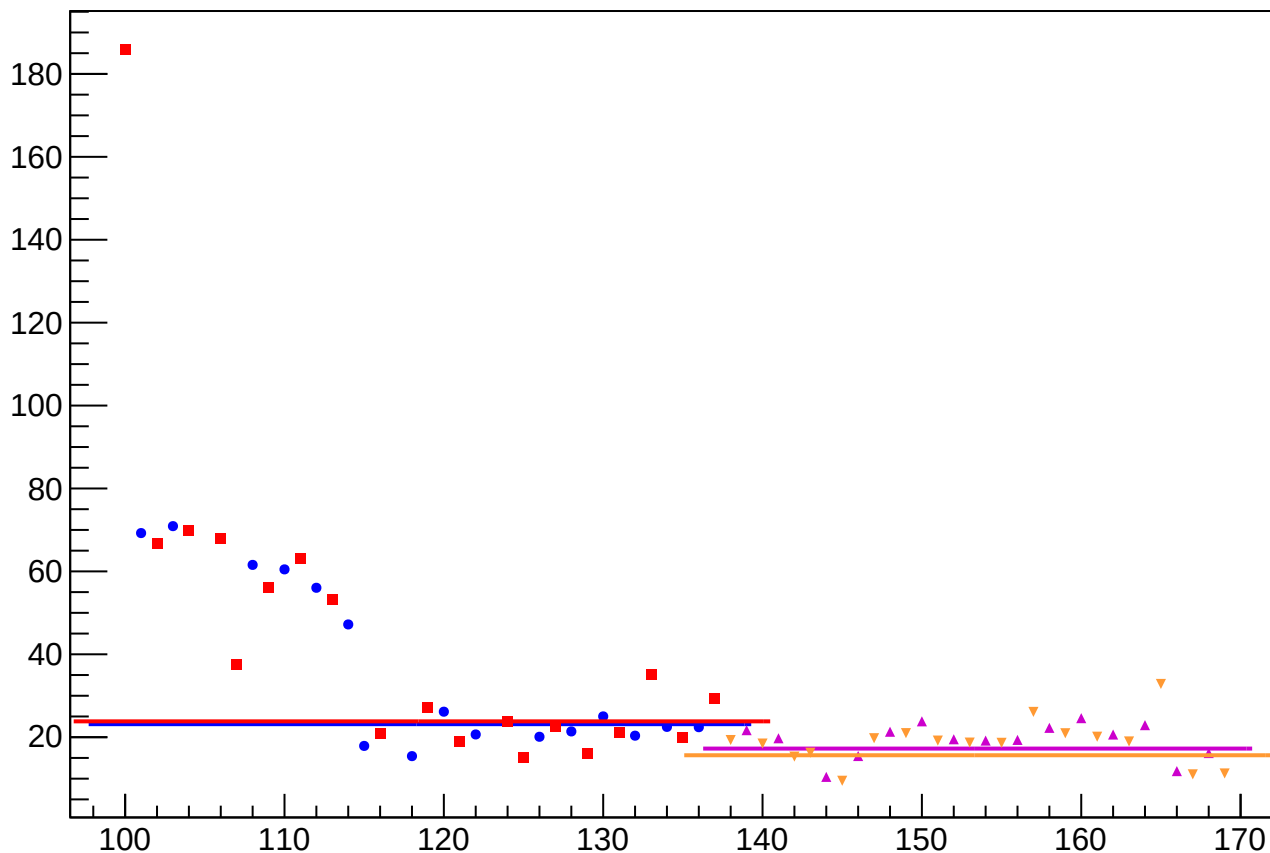
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.006 $\pm$ 0.005 χ^2 /NDF:33.1/30

Out: 0.002 $\pm$ 0.004 χ^2 /NDF:38.1/35

All: 0.004 $\pm$ 0.003 χ^2 /NDF: 71.6/66

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.145 ± 0.007 χ^2/NDF : 2406426.8/15

Left Out: 15.647 ± 0.003 χ^2/NDF : 2311462.7/16

Right Out: 23.825 ± 0.007 χ^2/NDF : 2898916.7/18

Left In: 17.257 ± 0.004 χ^2/NDF : 1593801.7/14

Left: 16.342 ± 0.002 χ^2/NDF : 4012426.0/31

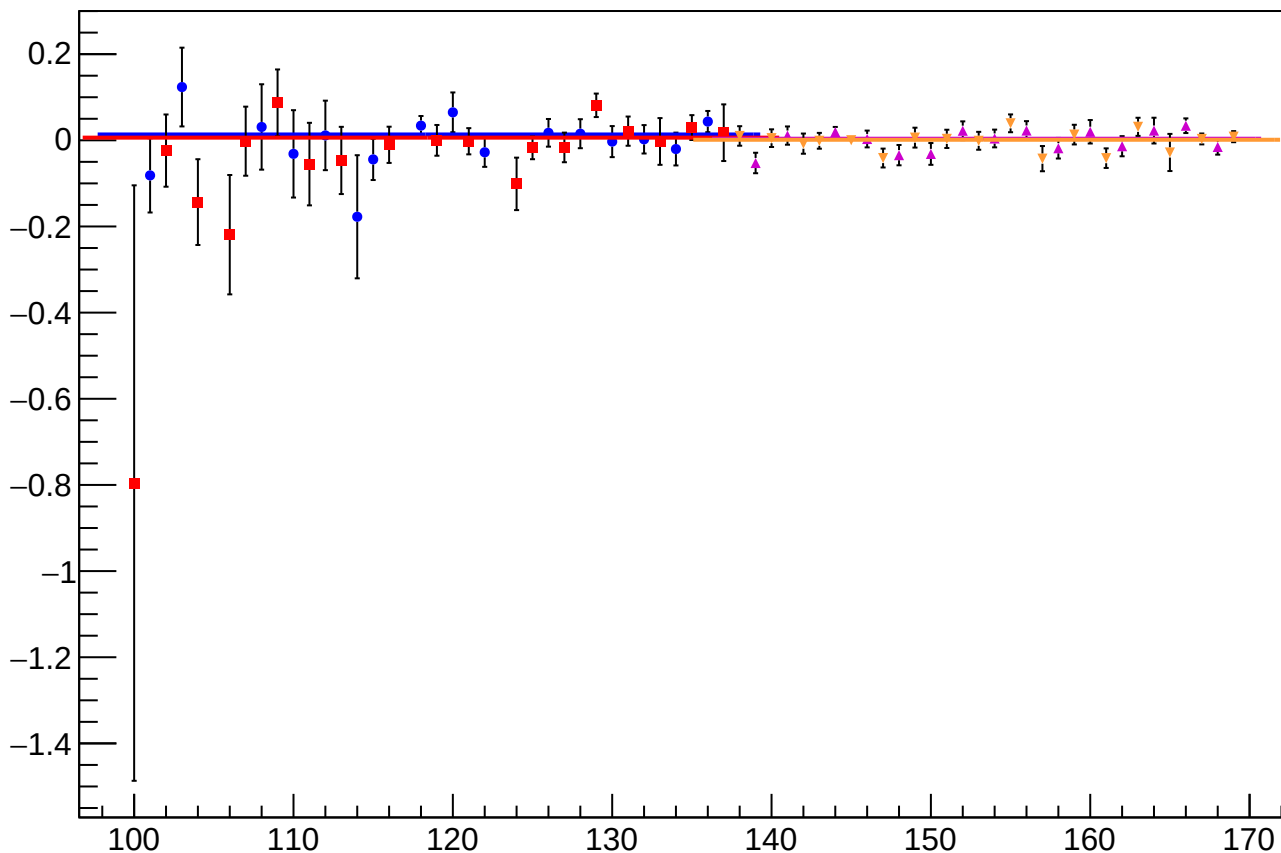
Right: 23.477 ± 0.005 χ^2/NDF : 5310004.0/34

In: 18.557 ± 0.003 χ^2/NDF : 4557482.2/30

Out: 17.044 ± 0.003 χ^2/NDF : 6304658.5/35

All: 17.720 ± 0.002 χ^2/NDF : 10980470.3/66

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.010 χ^2 /NDF: 12.3/15

Left Out: 0.001 $\pm$ 0.005 χ^2 /NDF:16.5/16

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: 0.004 $\pm$ 0.005 χ^2 /NDF:20.0/14

Left: 0.002 $\pm$ 0.003 χ^2 /NDF: 36.6/31

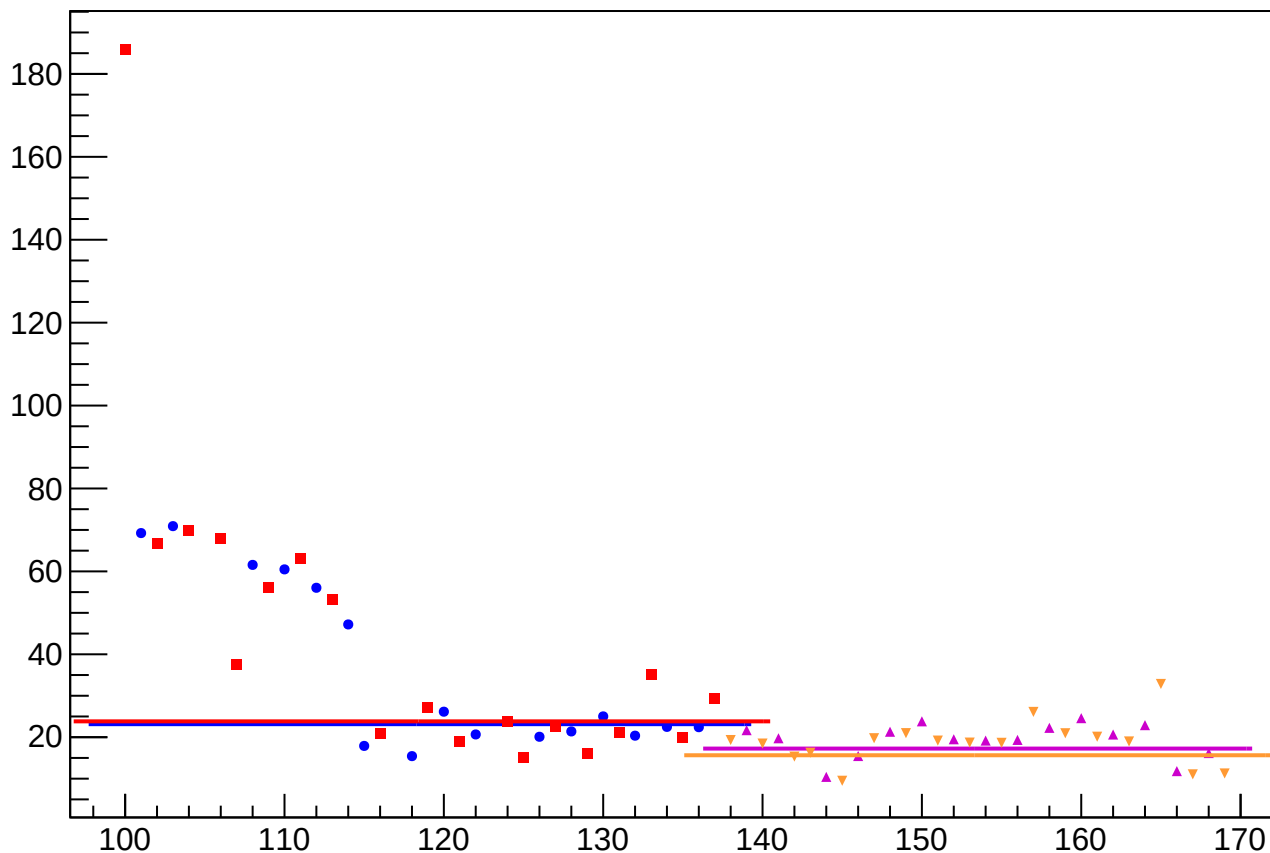
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.006 $\pm$ 0.005 χ^2 /NDF:33.1/30

Out: 0.002 $\pm$ 0.004 χ^2 /NDF:38.1/35

All: 0.004 $\pm$ 0.003 χ^2 /NDF: 71.6/66

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.145+/-0.007 χ^2/NDF : 2406426.8/15

Left Out: 15.647+/-0.003 χ^2/NDF :2311462.7/16

Right Out: 23.825+/-0.007 χ^2/NDF : 2898916.7/18

Left In: 17.257+/-0.004 χ^2/NDF :1593801.7/14

Left: 16.342+/-0.002 χ^2/NDF : 4012426.0/31

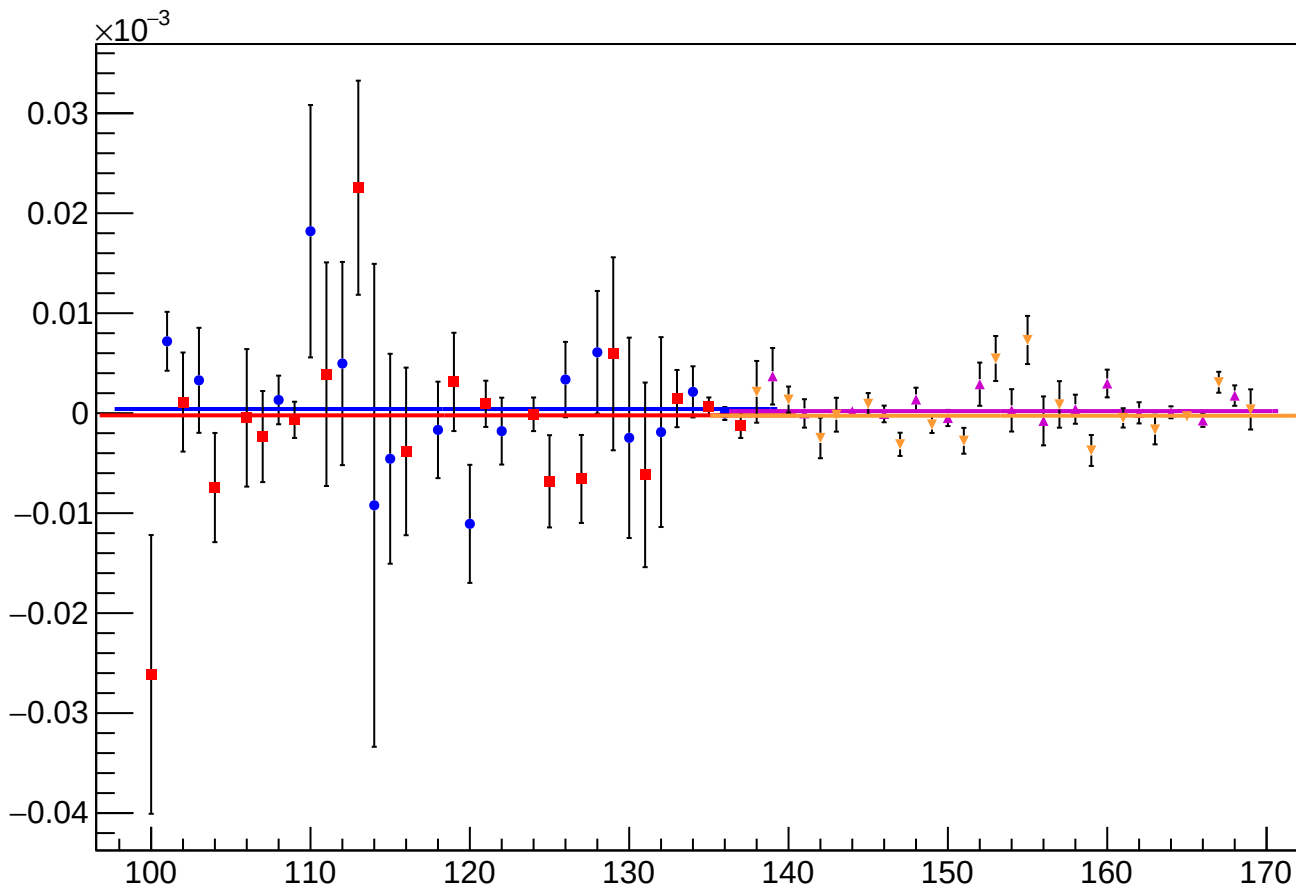
Right: 23.477+/-0.005 χ^2/NDF : 5310004.0/34

In: 18.557+/-0.003 χ^2/NDF :4557482.2/30

Out: 17.044+/-0.003 χ^2/NDF :6304658.5/35

All: 17.720+/-0.002 χ^2/NDF : 10980470.3/66

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 χ^2/NDF : 15.3/15

Left Out: -0.000 ± 0.000 χ^2/NDF : 48.4/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 17.9/18

Left In: 0.000 ± 0.000 χ^2/NDF : 13.6/14

Left: 0.000 ± 0.000 χ^2/NDF : 64.4/31

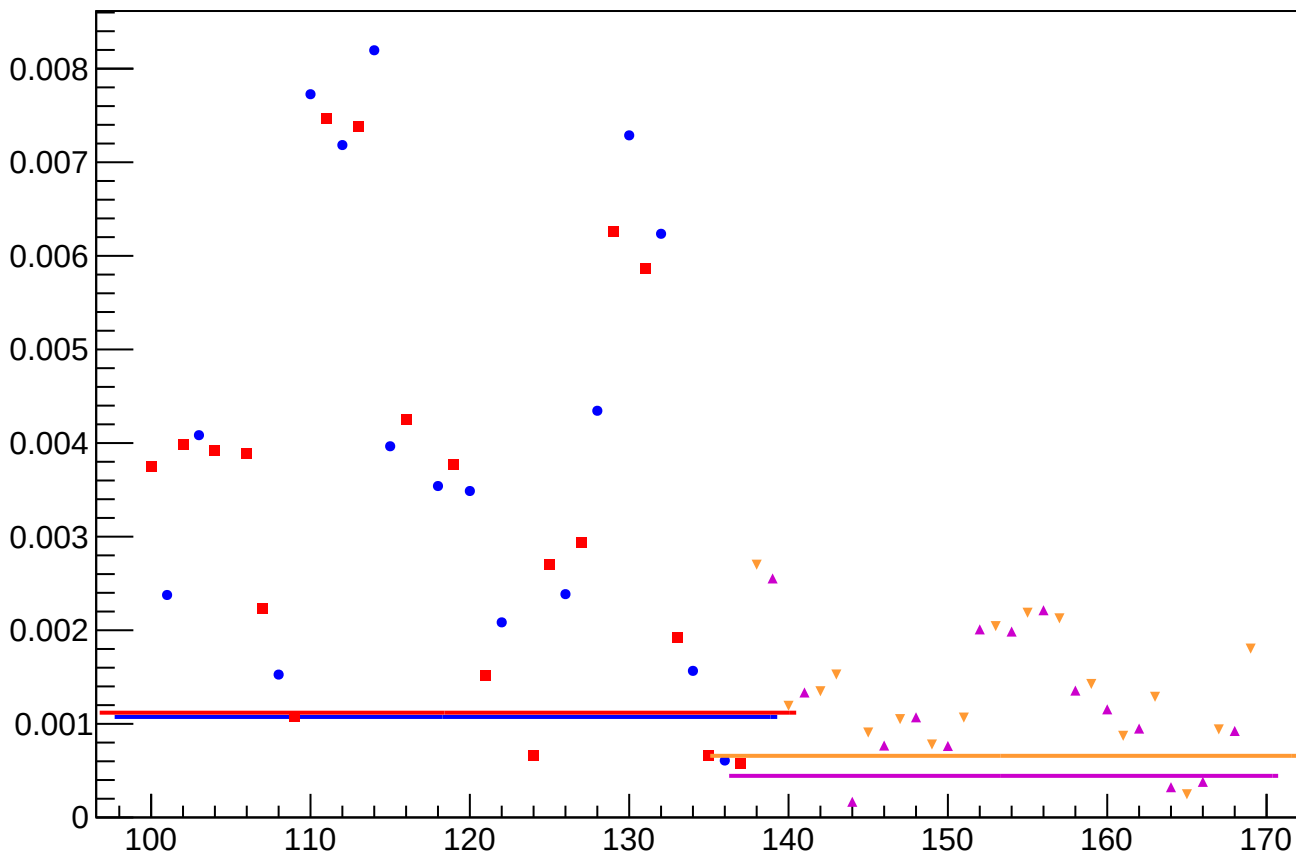
Right: 0.000 ± 0.000 χ^2/NDF : 33.8/34

In: 0.000 ± 0.000 χ^2/NDF : 29.0/30

Out: -0.000 ± 0.000 χ^2/NDF : 66.2/35

All: 0.000 ± 0.000 χ^2/NDF : 98.2/66

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000

χ^2/NDF : 7045313.7/15

Left Out: 0.001+/-0.000

χ^2/NDF : 10016997.1/16

Right Out: 0.001+/-0.000

χ^2/NDF : 6796343.2/18

Left In: 0.000+/-0.000

χ^2/NDF : 10915937.0/14

Left: 0.001+/-0.000

χ^2/NDF : 21960952.2/31

Right: 0.001+/-0.000

χ^2/NDF : 13848160.8/34

In: 0.001+/-0.000

χ^2/NDF : 20223953.6/30

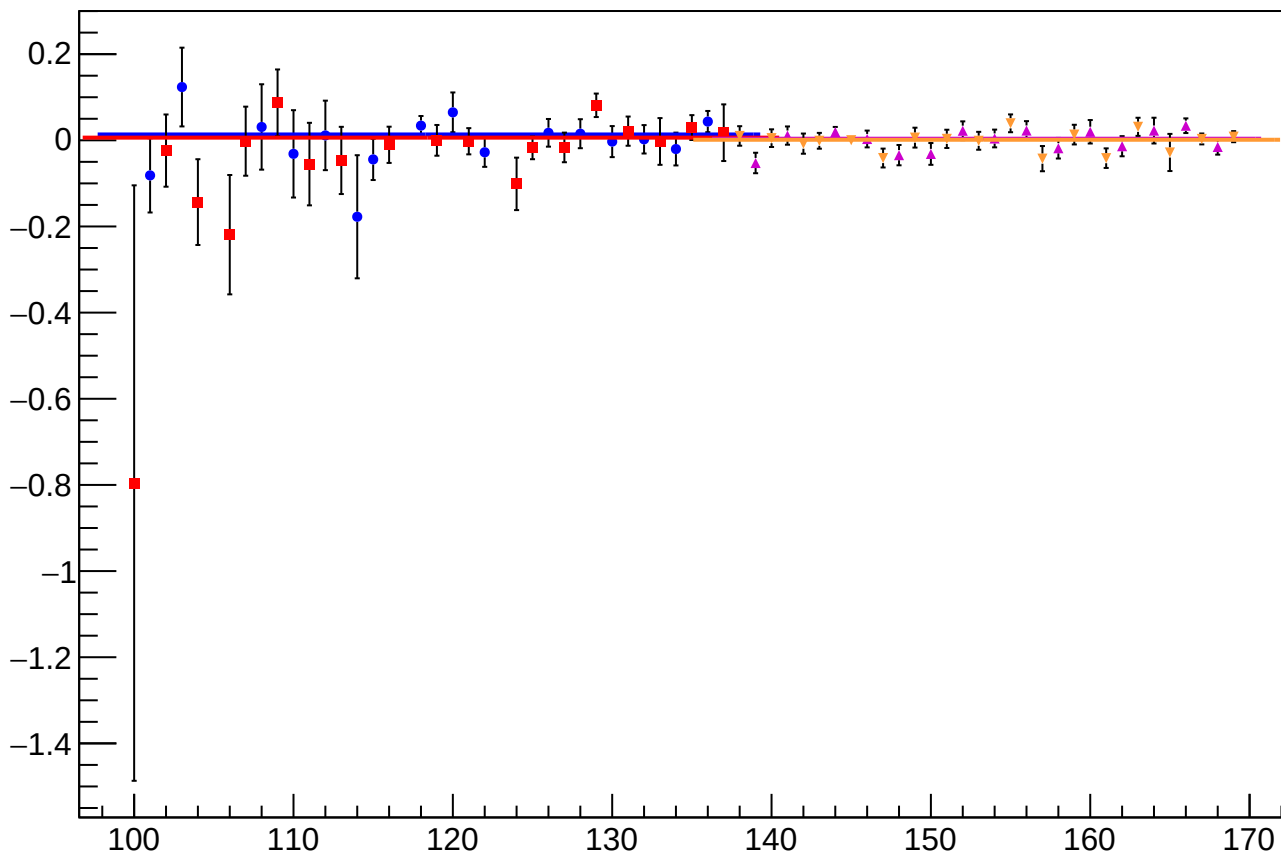
Out: 0.001+/-0.000

χ^2/NDF : 17939923.5/35

All: 0.001+/-0.000

χ^2/NDF : 39374651.8/66

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.010 χ^2 /NDF: 12.3/15

Left Out: 0.001 $\pm$ 0.005 χ^2 /NDF:16.5/16

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: 0.004 $\pm$ 0.005 χ^2 /NDF:20.0/14

Left: 0.002 $\pm$ 0.003 χ^2 /NDF: 36.6/31

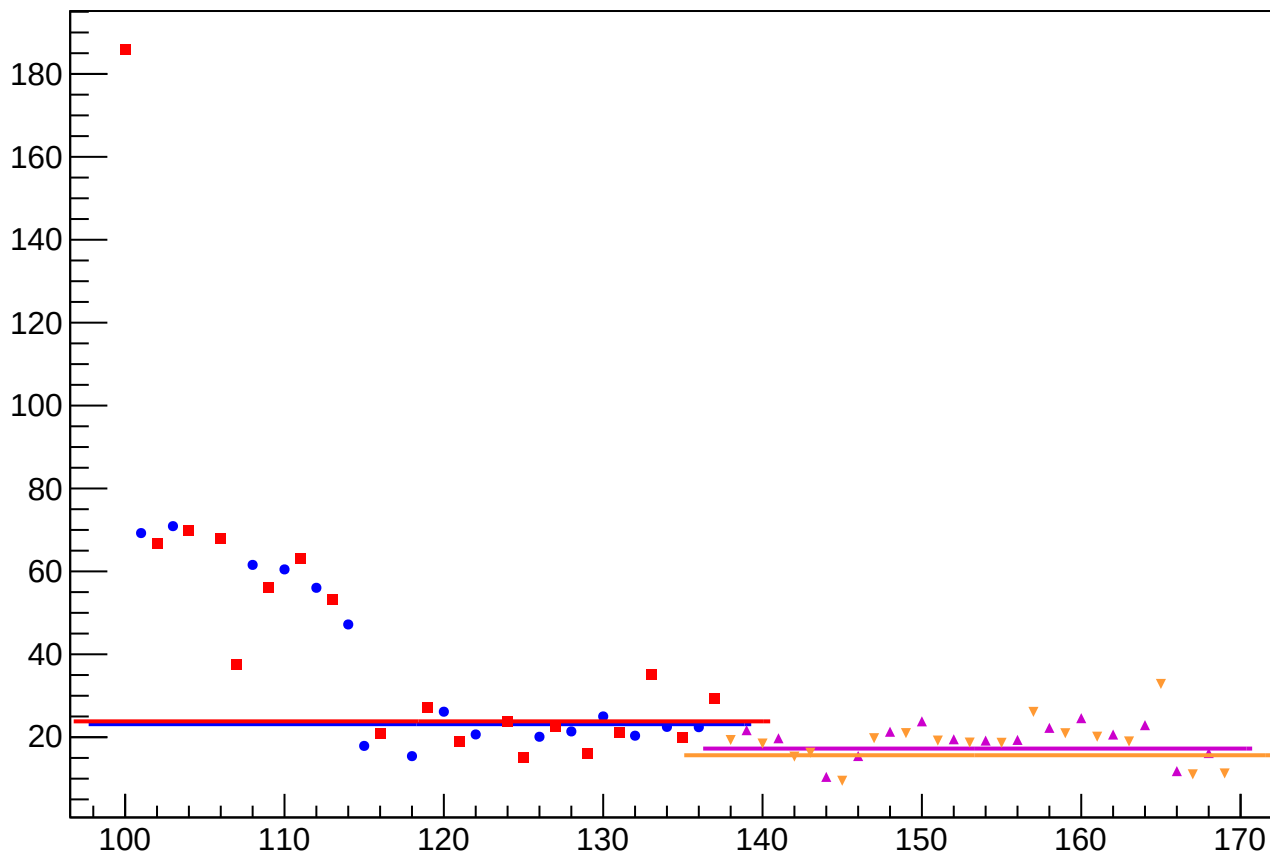
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.006 $\pm$ 0.005 χ^2 /NDF:33.1/30

Out: 0.002 $\pm$ 0.004 χ^2 /NDF:38.1/35

All: 0.004 $\pm$ 0.003 χ^2 /NDF: 71.6/66

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.144 $\pm$ 0.007 χ^2 /NDF: 2406451.1/15

Left Out: 15.647 $\pm$ 0.003 χ^2 /NDF:2311624.1/16

Right Out: 23.824 $\pm$ 0.007 χ^2 /NDF: 2898863.9/18

Left In: 17.257 $\pm$ 0.004 χ^2 /NDF:1593788.3/14

Left: 16.342 $\pm$ 0.002 χ^2 /NDF: 4012591.5/31

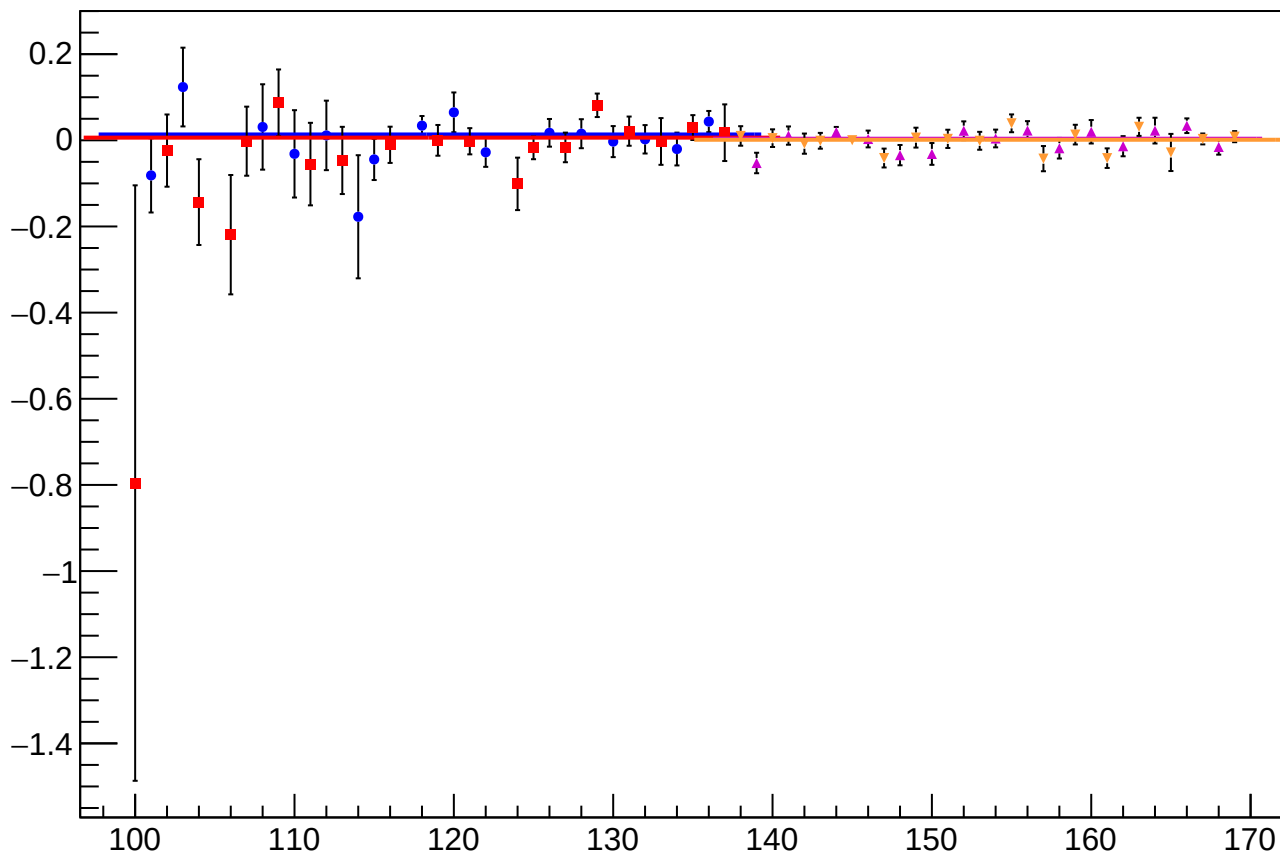
Right: 23.476 $\pm$ 0.005 χ^2 /NDF: 5309985.6/34

In: 18.557 $\pm$ 0.003 χ^2 /NDF:4557258.6/30

Out: 17.044 $\pm$ 0.003 χ^2 /NDF:6304647.2/35

All: 17.720 $\pm$ 0.002 χ^2 /NDF: 10980233.3/66

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.010 χ^2 /NDF: 12.3/15

Left Out: 0.001 $\pm$ 0.005 χ^2 /NDF:16.5/16

Right Out: 0.006 $\pm$ 0.010 χ^2 /NDF: 21.5/18

Left In: 0.004 $\pm$ 0.005 χ^2 /NDF:20.0/14

Left: 0.002 $\pm$ 0.003 χ^2 /NDF: 36.6/31

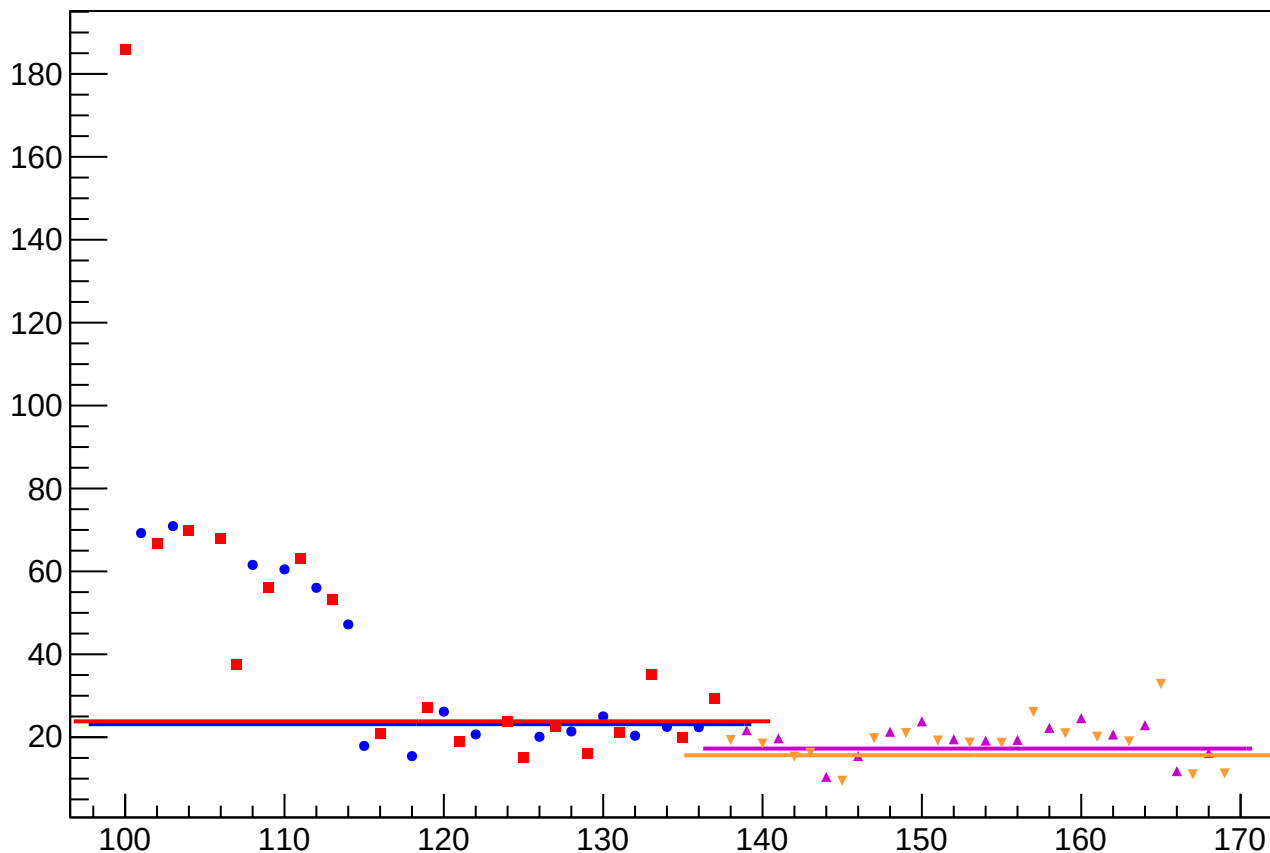
Right: 0.010 $\pm$ 0.007 χ^2 /NDF: 34.1/34

In: 0.006 $\pm$ 0.005 χ^2 /NDF:33.1/30

Out: 0.002 $\pm$ 0.004 χ^2 /NDF:38.1/35

All: 0.004 $\pm$ 0.003 χ^2 /NDF: 71.6/66

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 23.144 $\pm$ 0.007 χ^2 /NDF: 2406451.1/15

Left Out: 15.647 $\pm$ 0.003 χ^2 /NDF:2311624.1/16

Right Out: 23.824 $\pm$ 0.007 χ^2 /NDF: 2898863.9/18

Left In: 17.257 $\pm$ 0.004 χ^2 /NDF:1593788.3/14

Left: 16.342 $\pm$ 0.002 χ^2 /NDF: 4012591.5/31

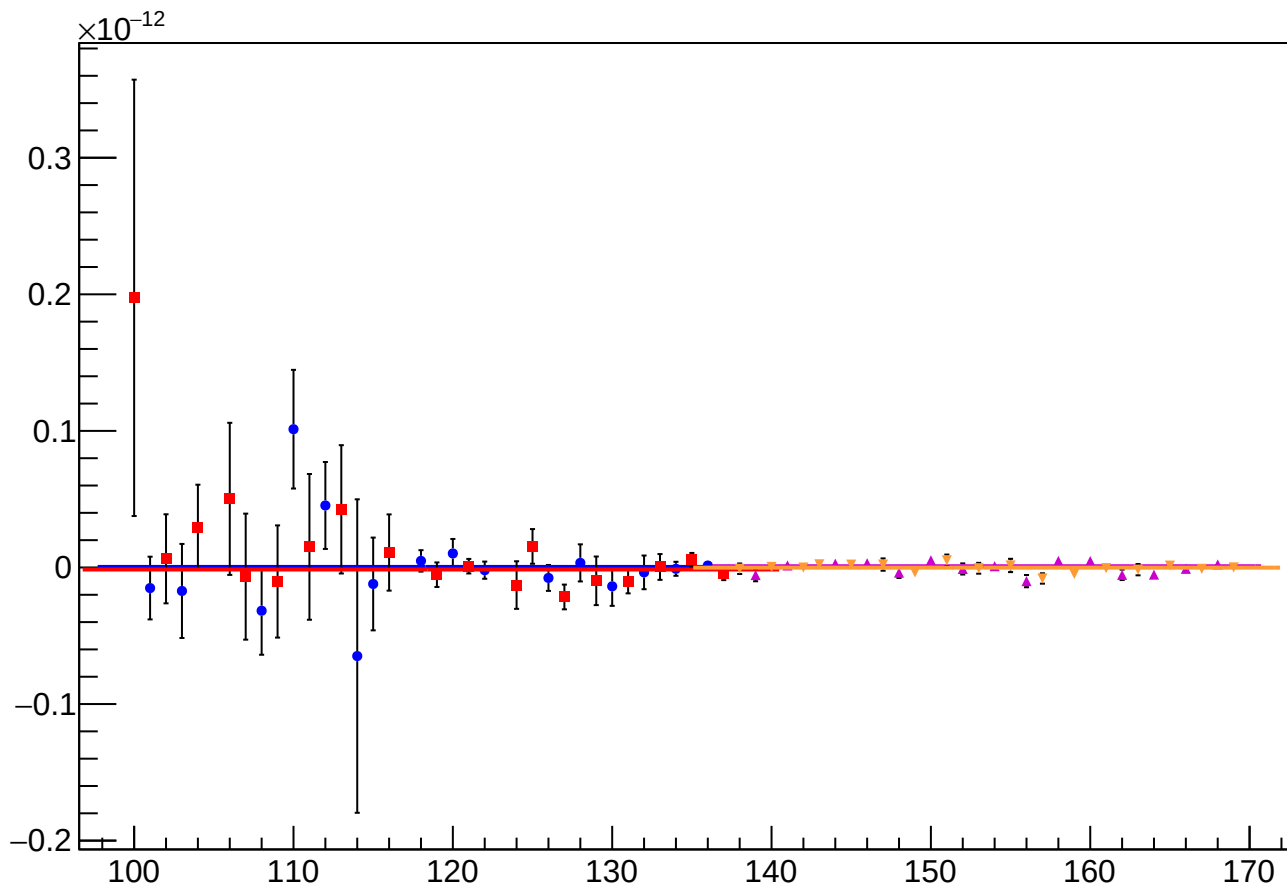
Right: 23.476 $\pm$ 0.005 χ^2 /NDF: 5309985.6/34

In: 18.557 $\pm$ 0.003 χ^2 /NDF:4557258.6/30

Out: 17.044 $\pm$ 0.003 χ^2 /NDF:6304647.2/35

All: 17.720 $\pm$ 0.002 χ^2 /NDF: 10980233.3/66

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 12.9/15

Left Out: -0.000+/-0.000 χ^2/NDF : 12.5/16

Right Out: -0.000+/-0.000 χ^2/NDF : 15.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 23.1/14

Left: 0.000+/-0.000 χ^2/NDF : 36.5/31

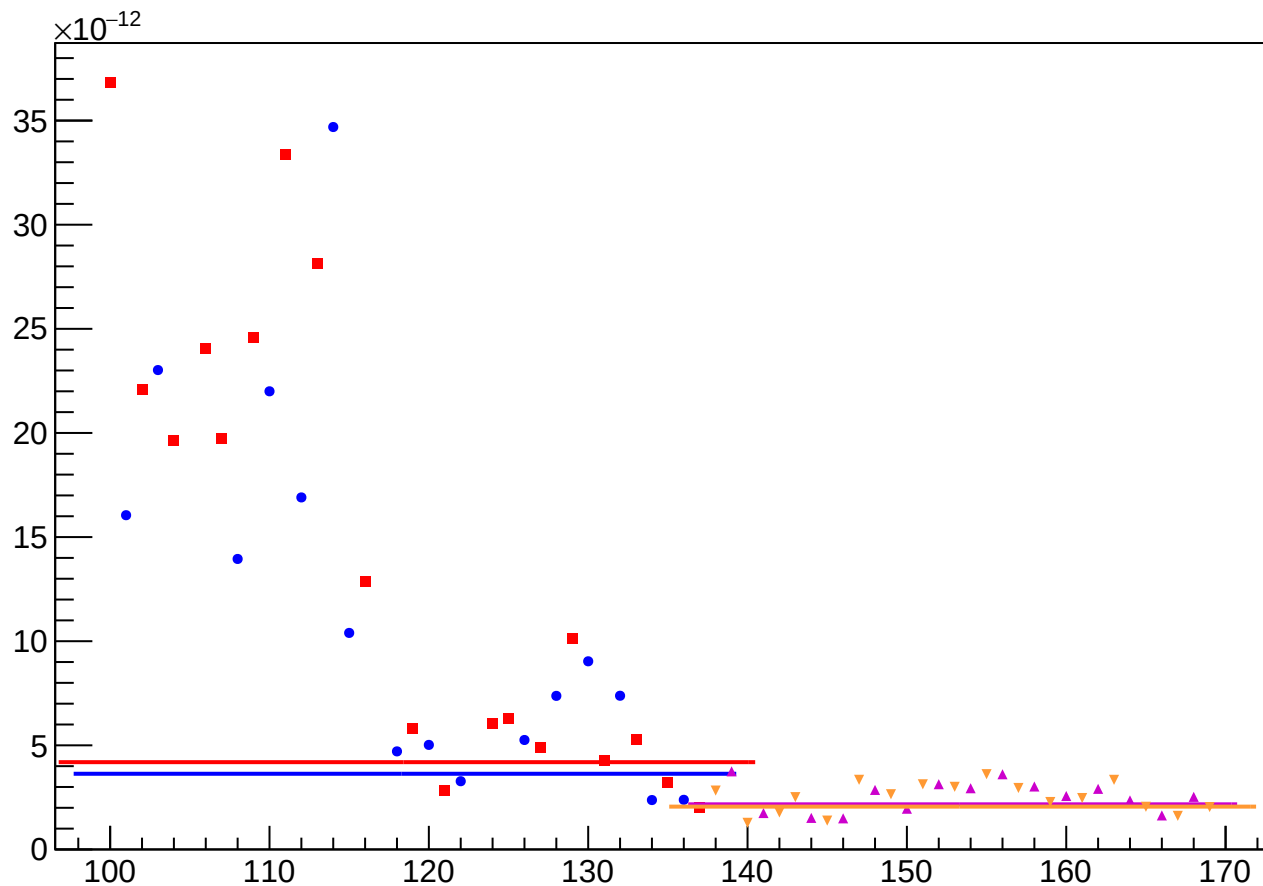
Right: -0.000+/-0.000 χ^2/NDF : 28.9/34

In: 0.000+/-0.000 χ^2/NDF : 36.0/30

Out: -0.000+/-0.000 χ^2/NDF : 28.4/35

All: 0.000+/-0.000 χ^2/NDF : 65.6/66

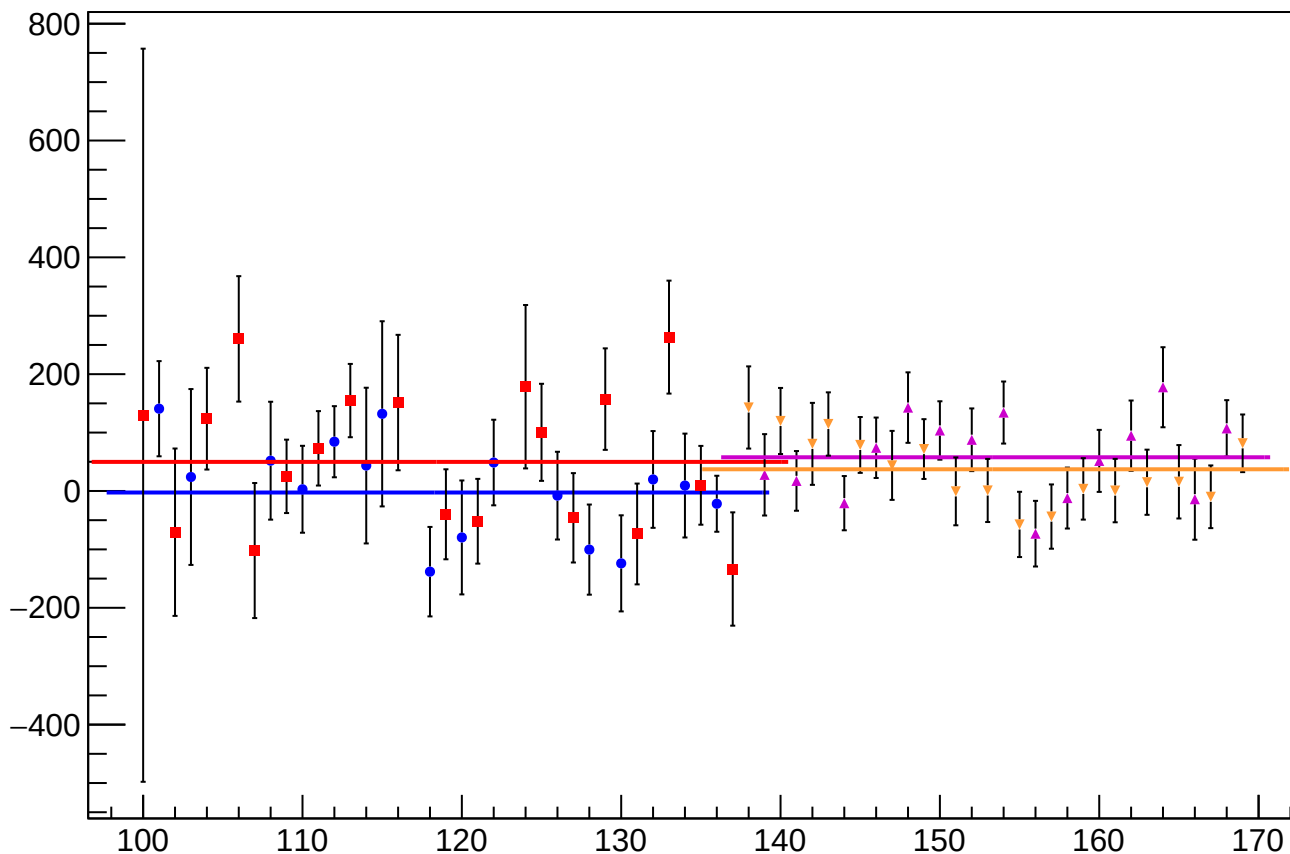
asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 3590314.4/15$
 Left Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 1932229.9/16$
 Right Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 4454808.3/18$
 Left In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 1562844.9/14$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 3517306.9/31$
 Right: 0.000 ± 0.000 $\chi^2/\text{NDF}: 8108622.5/34$
 In: 0.000 ± 0.000 $\chi^2/\text{NDF}: 6048365.9/30$
 Out: 0.000 ± 0.000 $\chi^2/\text{NDF}: 7892041.3/35$
 All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 13966294.7/66$

reg_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.614 ± 19.994 $\chi^2/\text{NDF}: 14.6/15$

Left Out: 37.158 ± 13.500 $\chi^2/\text{NDF}: 16.7/16$

Right Out: 49.810 ± 19.621 $\chi^2/\text{NDF}: 29.4/18$

Left In: 57.714 ± 14.190 $\chi^2/\text{NDF}: 21.8/14$

Left: 46.925 ± 9.781 $\chi^2/\text{NDF}: 39.5/31$

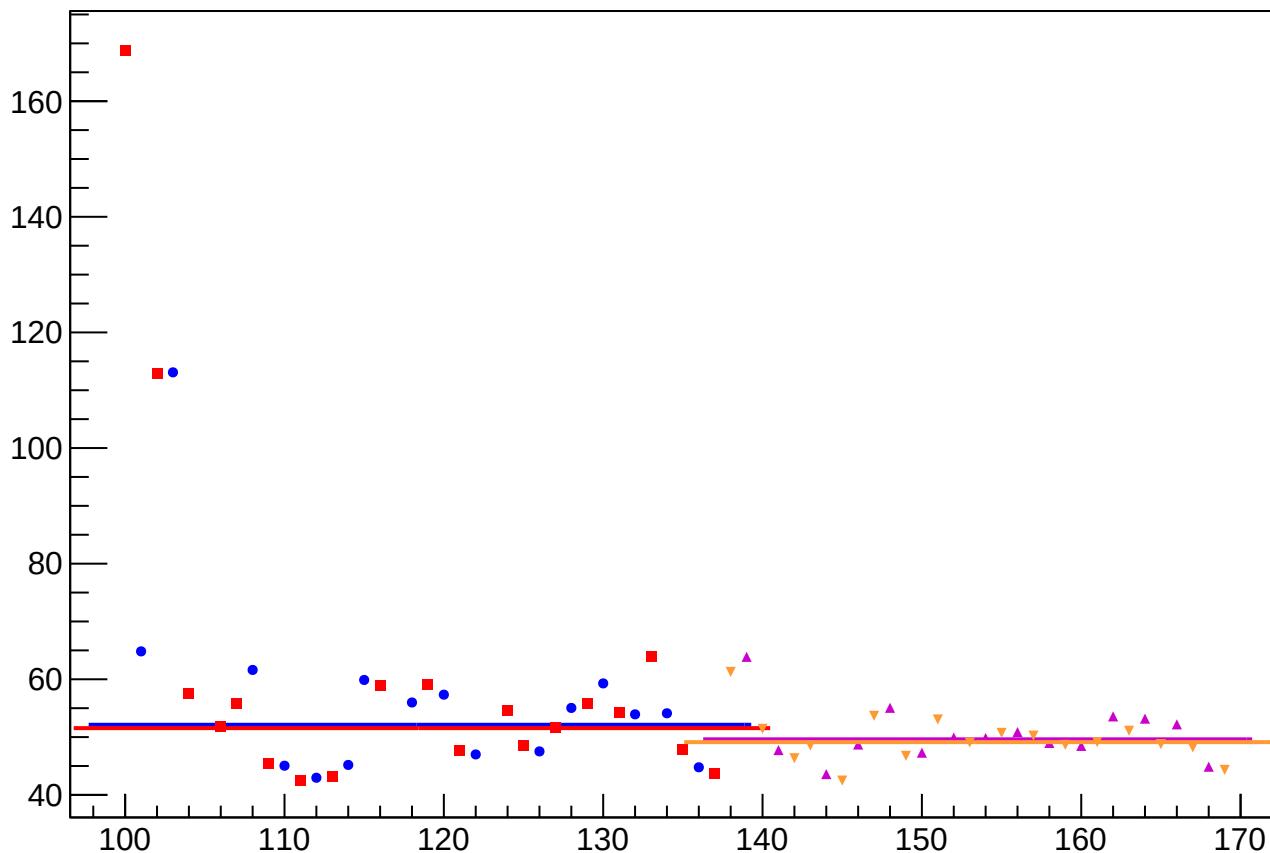
Right: 24.091 ± 14.004 $\chi^2/\text{NDF}: 47.4/34$

In: 37.507 ± 11.572 $\chi^2/\text{NDF}: 42.4/30$

Out: 41.223 ± 11.122 $\chi^2/\text{NDF}: 46.3/35$

All: 39.439 ± 8.019 $\chi^2/\text{NDF}: 88.8/66$

reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 52.128+/-0.014 χ^2/NDF : 562918.0/15

Left Out: 49.127+/-0.010 χ^2/NDF : 155012.7/16

Right Out: 51.550+/-0.014 χ^2/NDF : 639564.9/18

Left In: 49.614+/-0.010 χ^2/NDF : 179710.6/14

Left: 49.358+/-0.007 χ^2/NDF : 335958.1/31

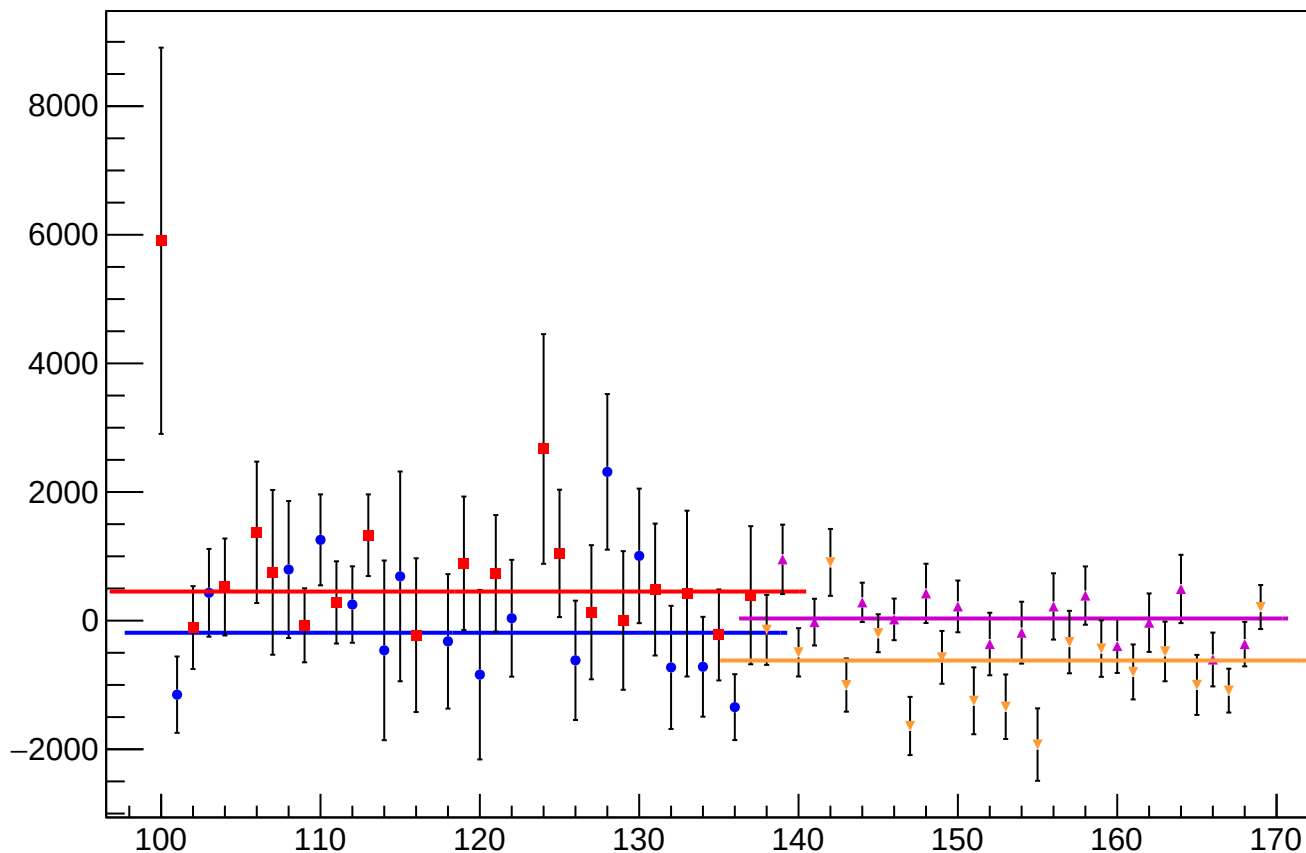
Right: 51.834+/-0.010 χ^2/NDF : 1203336.1/34

In: 50.456+/-0.008 χ^2/NDF : 763666.2/30

Out: 49.906+/-0.008 χ^2/NDF : 815270.9/35

All: 50.170+/-0.006 χ^2/NDF : 1581290.1/66

asym_sam_1357_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -188.563+/-205.811 χ^2/NDF : 21.4/15

Left Out: -619.877+/-102.937 χ^2/NDF :35.6/16

Right Out: 452.540+/-203.918 χ^2/NDF : 11.3/18

Left In: 33.517+/-106.913 χ^2/NDF :11.6/14

Left: -305.555+/-74.153 χ^2/NDF : 66.6/31

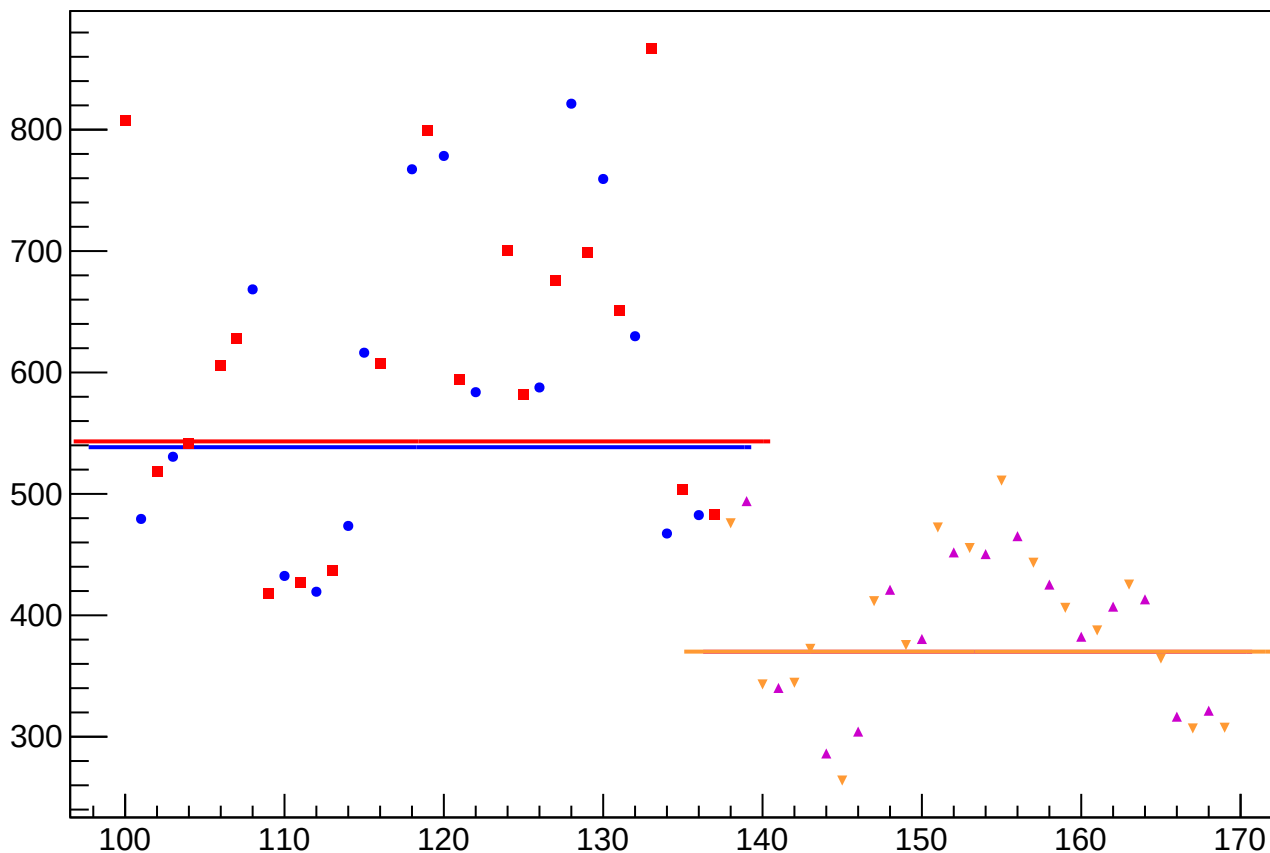
Right: 134.950+/-144.856 χ^2/NDF : 37.6/34

In: -13.676+/-94.875 χ^2/NDF :33.9/30

Out: -402.100+/-91.892 χ^2/NDF :68.9/35

All: -214.090+/-66.007 χ^2/NDF : 111.5/66

asym_sam_1357_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 538.468 $\pm$ 0.146 χ^2 /NDF: 613995.2/15

Left Out: 370.108 $\pm$ 0.073 χ^2 /NDF: 854062.8/16

Right Out: 543.242 $\pm$ 0.144 χ^2 /NDF: 637115.5/18

Left In: 369.965 $\pm$ 0.076 χ^2 /NDF: 688944.3/14

Left: 370.039 $\pm$ 0.052 χ^2 /NDF: 1543008.9/31

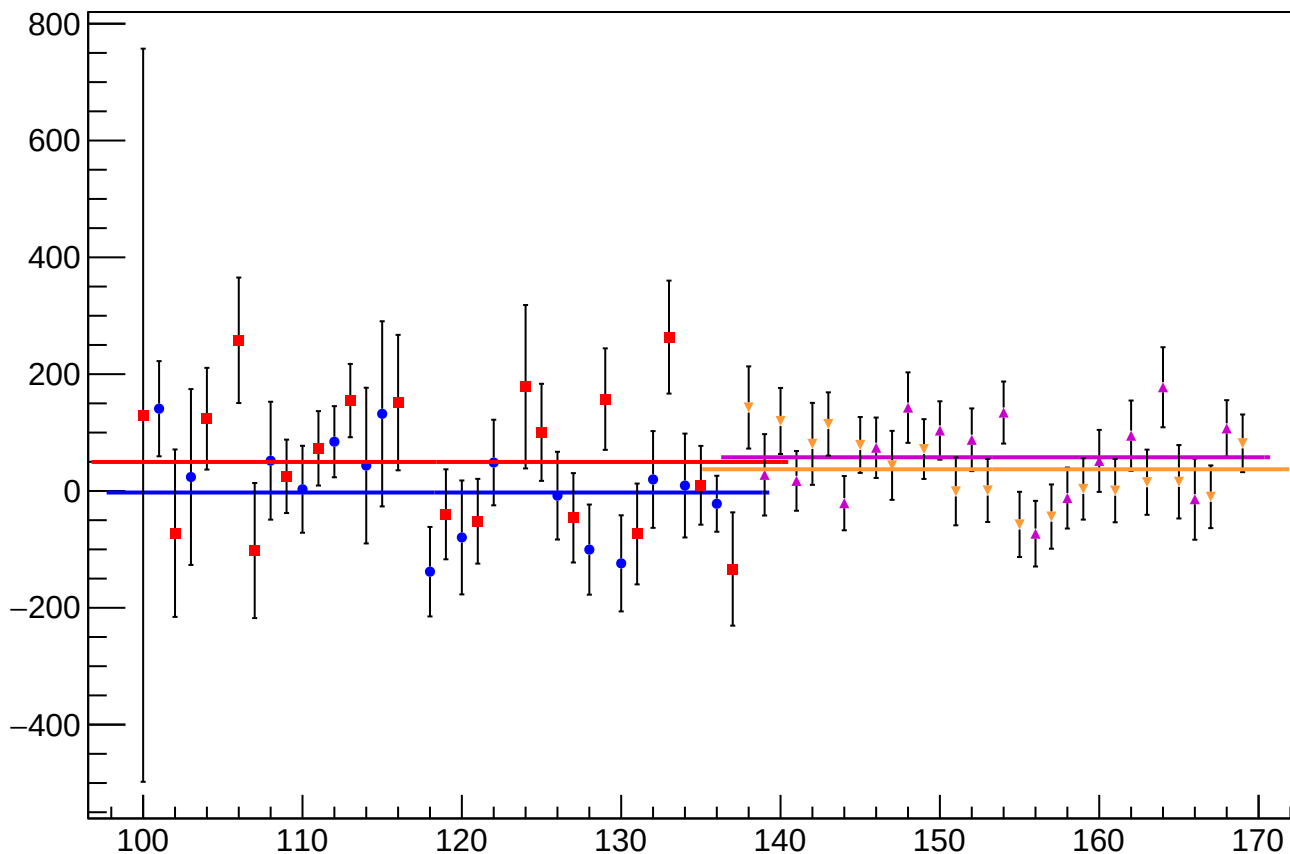
Right: 540.877 $\pm$ 0.102 χ^2 /NDF: 1251653.7/34

In: 405.772 $\pm$ 0.067 χ^2 /NDF: 2358678.5/30

Out: 405.267 $\pm$ 0.065 χ^2 /NDF: 2640130.4/35

All: 405.511 $\pm$ 0.047 χ^2 /NDF: 4998838.2/66

cor_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.618 ± 19.995 $\chi^2/\text{NDF}: 14.6/15$

Left Out: 37.161 ± 13.500 $\chi^2/\text{NDF}: 16.7/16$

Right Out: 49.694 ± 19.622 $\chi^2/\text{NDF}: 29.3/18$

Left In: 57.713 ± 14.190 $\chi^2/\text{NDF}: 21.8/14$

Left: 46.926 ± 9.781 $\chi^2/\text{NDF}: 39.5/31$

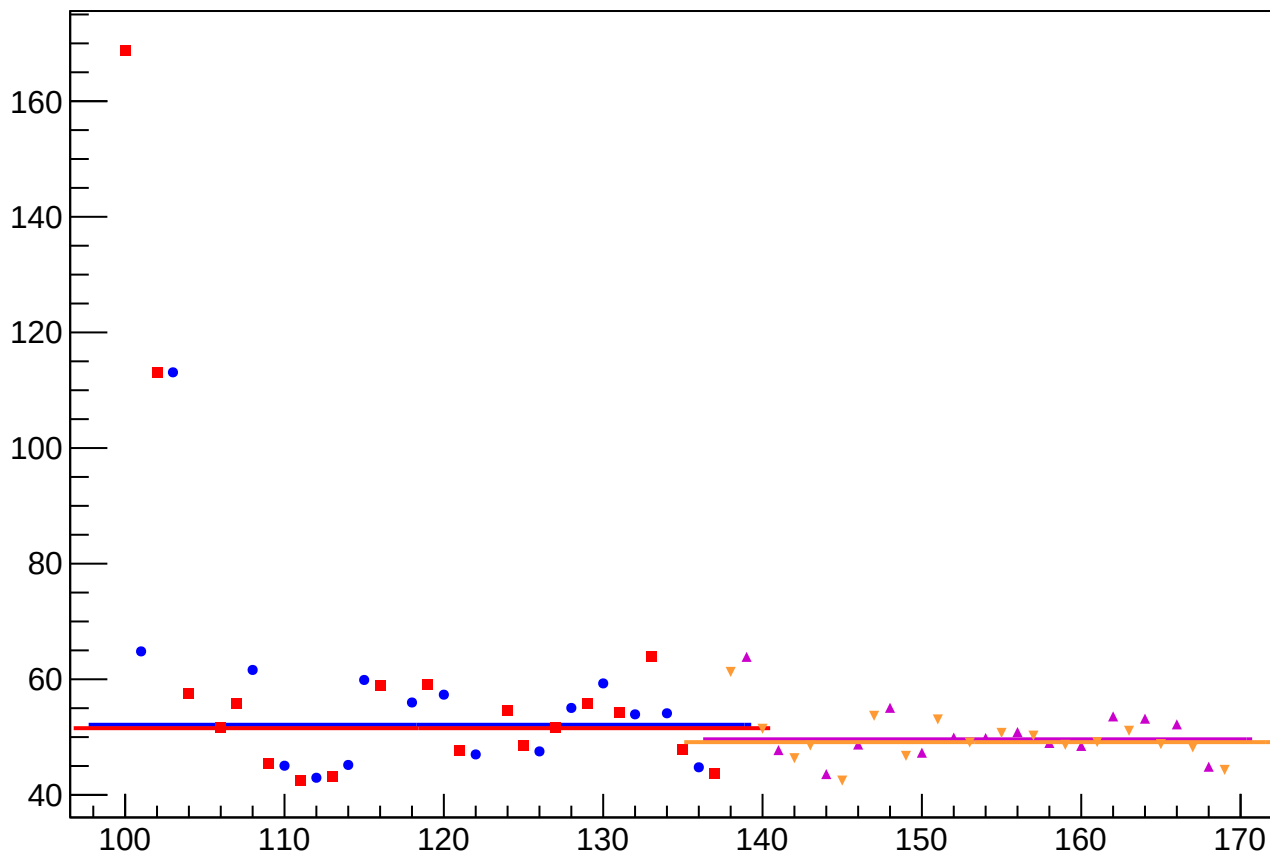
Right: 24.030 ± 14.005 $\chi^2/\text{NDF}: 47.4/34$

In: 37.505 ± 11.572 $\chi^2/\text{NDF}: 42.4/30$

Out: 41.188 ± 11.122 $\chi^2/\text{NDF}: 46.2/35$

All: 39.419 ± 8.019 $\chi^2/\text{NDF}: 88.7/66$

cor_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 52.128 $\pm$ 0.014 χ^2 /NDF: 562920.3/15

Left Out: 49.127 $\pm$ 0.010 χ^2 /NDF: 155012.7/16

Right Out: 51.540 $\pm$ 0.014 χ^2 /NDF: 639784.7/18

Left In: 49.614 $\pm$ 0.010 χ^2 /NDF: 179710.6/14

Left: 49.358 $\pm$ 0.007 χ^2 /NDF: 335958.1/31

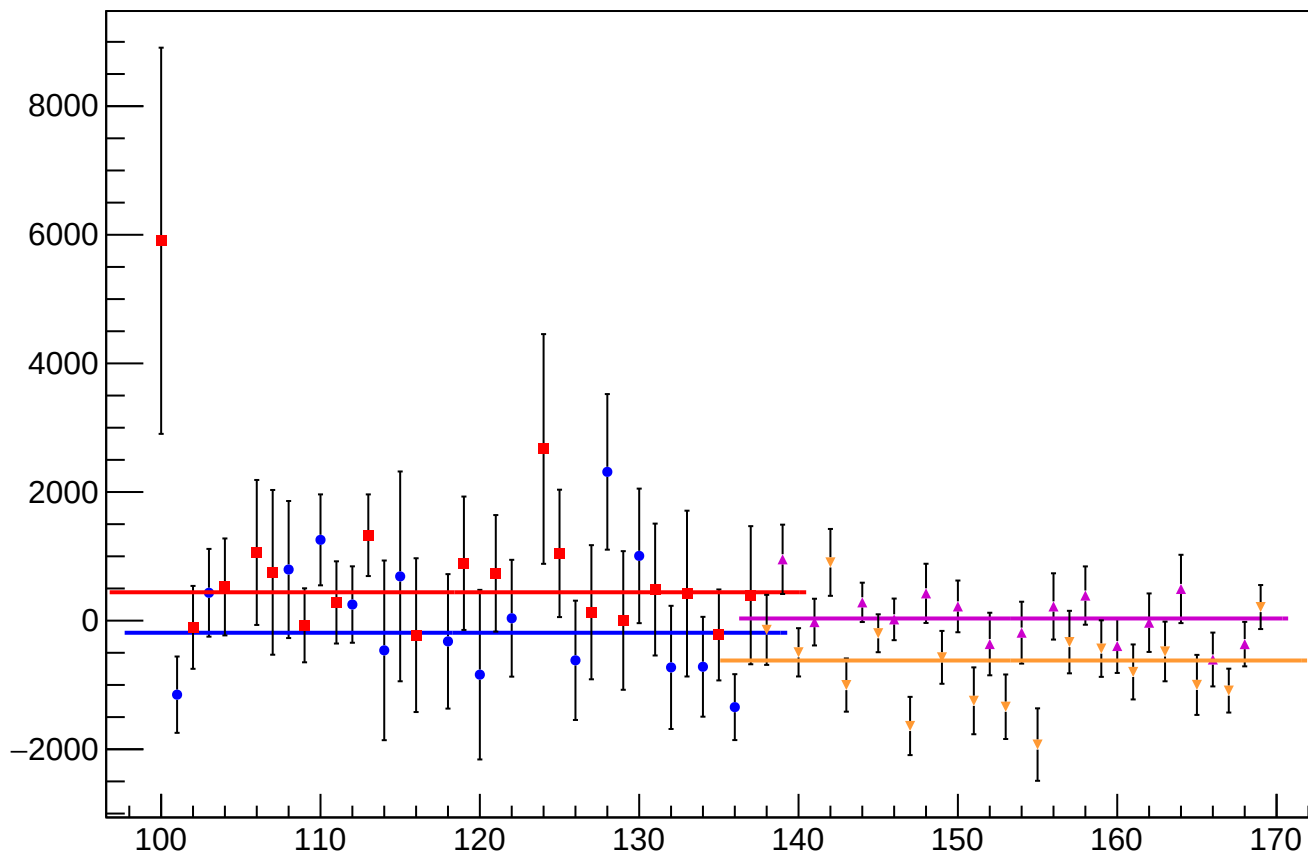
Right: 51.828 $\pm$ 0.010 χ^2 /NDF: 1203588.8/34

In: 50.456 $\pm$ 0.008 χ^2 /NDF: 763668.5/30

Out: 49.902 $\pm$ 0.008 χ^2 /NDF: 815314.3/35

All: 50.168 $\pm$ 0.006 χ^2 /NDF: 1581364.4/66

asym_sam_1357_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -188.541 ± 205.813 $\chi^2/\text{NDF}: 21.4/15$

Left Out: -619.873 ± 102.937 $\chi^2/\text{NDF}: 35.6/16$

Right Out: 441.171 ± 204.111 $\chi^2/\text{NDF}: 10.9/18$

Left In: 33.519 ± 106.913 $\chi^2/\text{NDF}: 11.6/14$

Left: -305.552 ± 74.153 $\chi^2/\text{NDF}: 66.6/31$

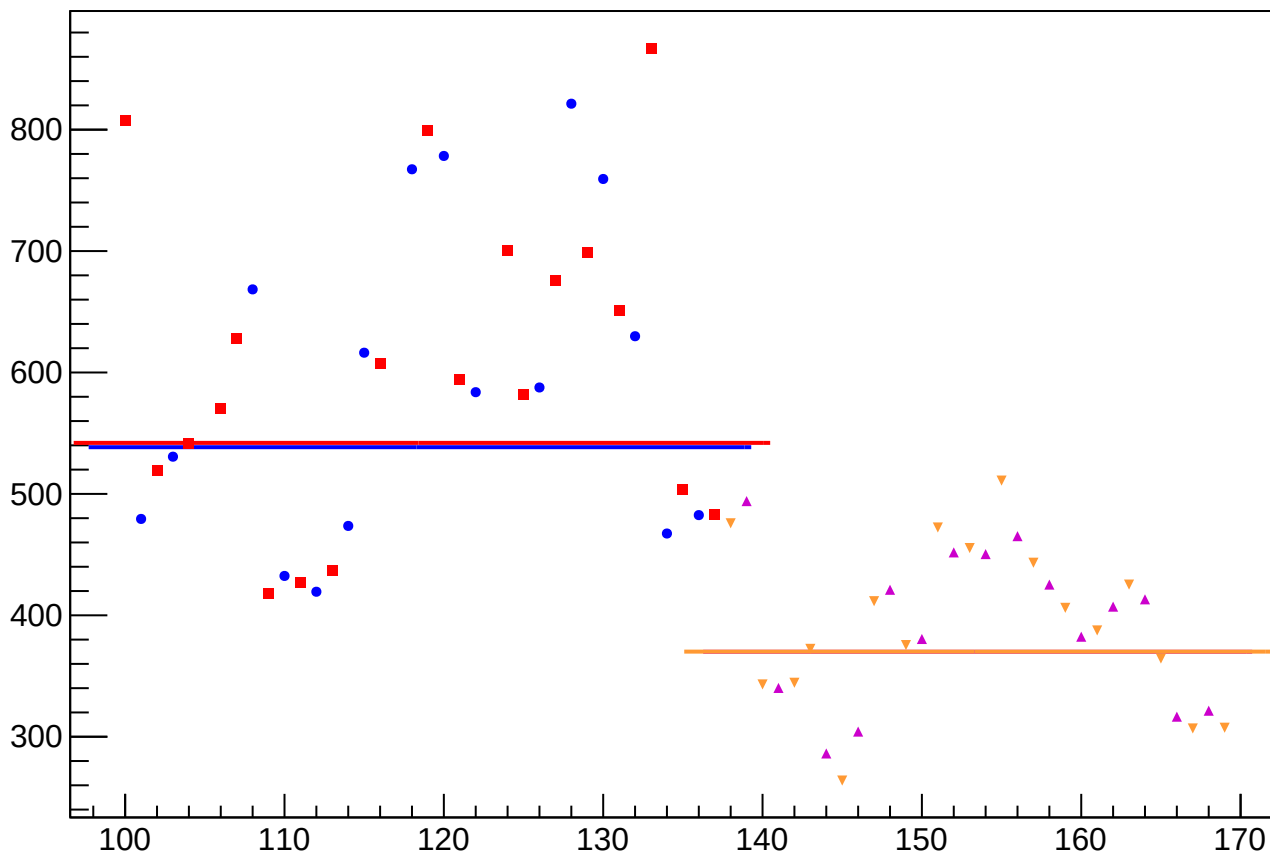
Right: 128.930 ± 144.926 $\chi^2/\text{NDF}: 37.0/34$

In: -13.669 ± 94.875 $\chi^2/\text{NDF}: 33.9/30$

Out: -404.730 ± 91.910 $\chi^2/\text{NDF}: 68.0/35$

All: -215.406 ± 66.014 $\chi^2/\text{NDF}: 110.7/66$

asym_sam_1357_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 538.473 $\pm$ 0.146 χ^2 /NDF: 613991.3/15

Left Out: 370.108 $\pm$ 0.073 χ^2 /NDF: 854065.9/16

Right Out: 542.025 $\pm$ 0.144 χ^2 /NDF: 631559.6/18

Left In: 369.965 $\pm$ 0.076 χ^2 /NDF: 688942.4/14

Left: 370.039 $\pm$ 0.052 χ^2 /NDF: 1543010.2/31

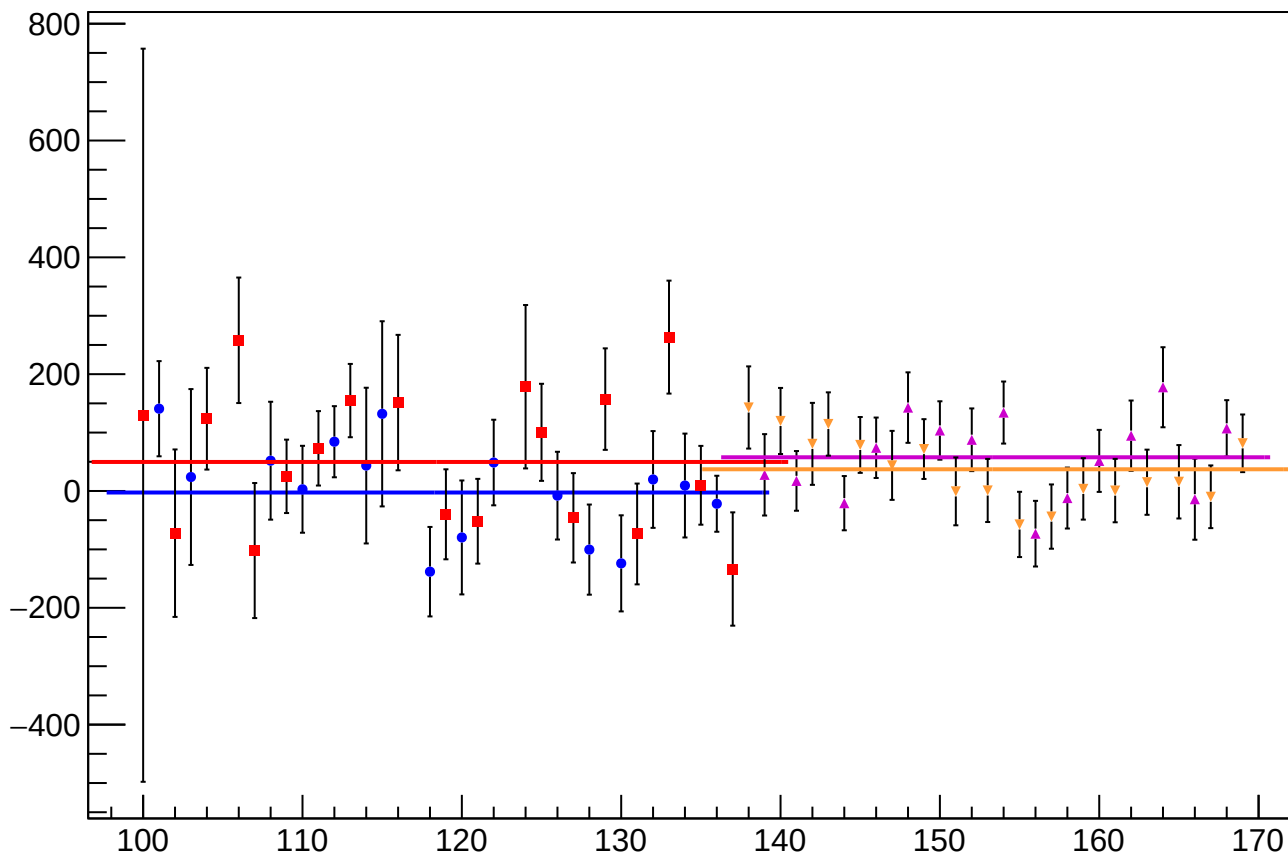
Right: 540.264 $\pm$ 0.102 χ^2 /NDF: 1245851.3/34

In: 405.773 $\pm$ 0.067 χ^2 /NDF: 2358723.0/30

Out: 404.967 $\pm$ 0.065 χ^2 /NDF: 2616784.5/35

All: 405.357 $\pm$ 0.047 χ^2 /NDF: 4975582.0/66

eigen_cor_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: -2.618 ± 19.995 $\chi^2/\text{NDF}: 14.6/15$

Left Out: 37.161 ± 13.500 $\chi^2/\text{NDF}: 16.7/16$

Right Out: 49.694 ± 19.622 $\chi^2/\text{NDF}: 29.3/18$

Left In: 57.713 ± 14.190 $\chi^2/\text{NDF}: 21.8/14$

Left: 46.926 ± 9.781 $\chi^2/\text{NDF}: 39.5/31$

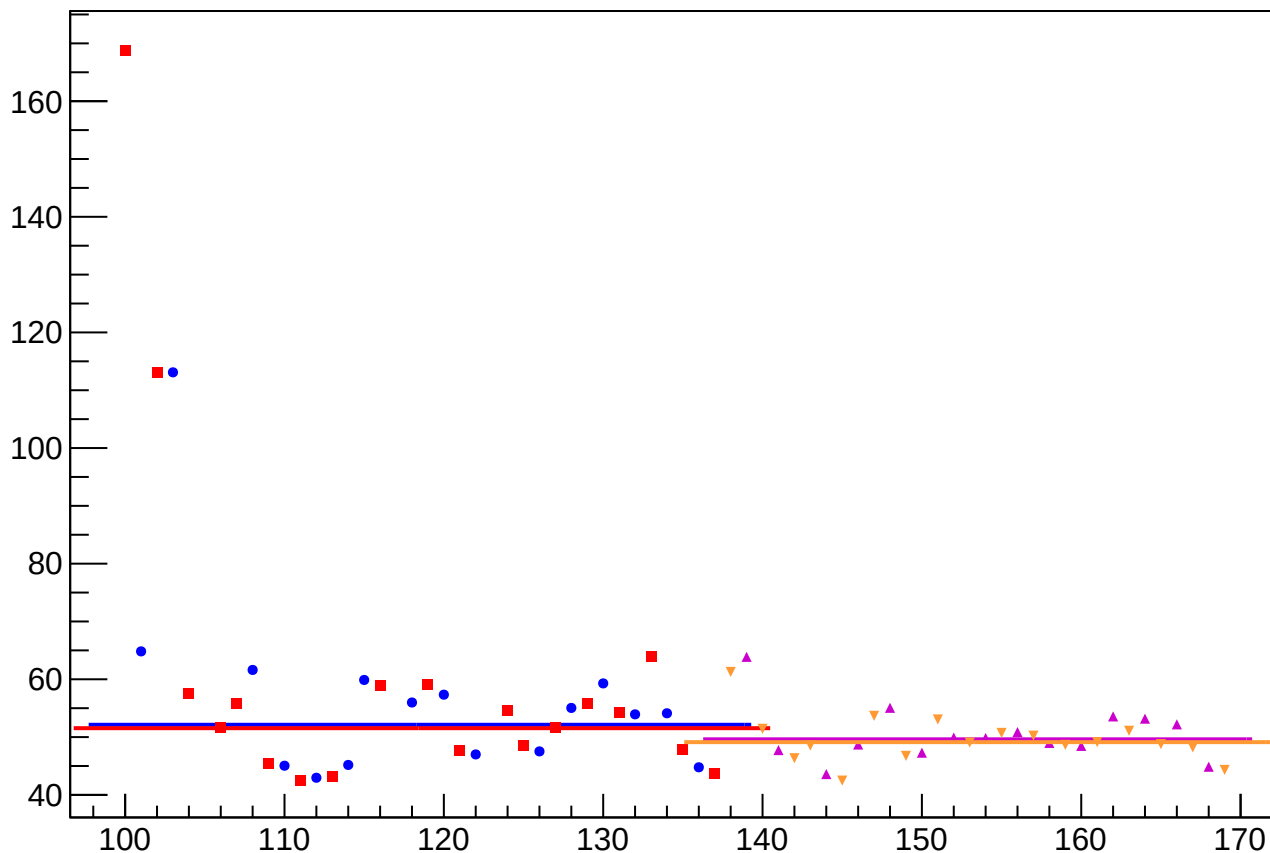
Right: 24.030 ± 14.005 $\chi^2/\text{NDF}: 47.4/34$

In: 37.505 ± 11.572 $\chi^2/\text{NDF}: 42.4/30$

Out: 41.188 ± 11.122 $\chi^2/\text{NDF}: 46.2/35$

All: 39.419 ± 8.019 $\chi^2/\text{NDF}: 88.7/66$

eigen_cor_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 52.128+/-0.014 χ^2/NDF : 562920.3/15

Left Out: 49.127+/-0.010 χ^2/NDF : 155012.7/16

Right Out: 51.540+/-0.014 χ^2/NDF : 639784.7/18

Left In: 49.614+/-0.010 χ^2/NDF : 179710.6/14

Left: 49.358+/-0.007 χ^2/NDF : 335958.1/31

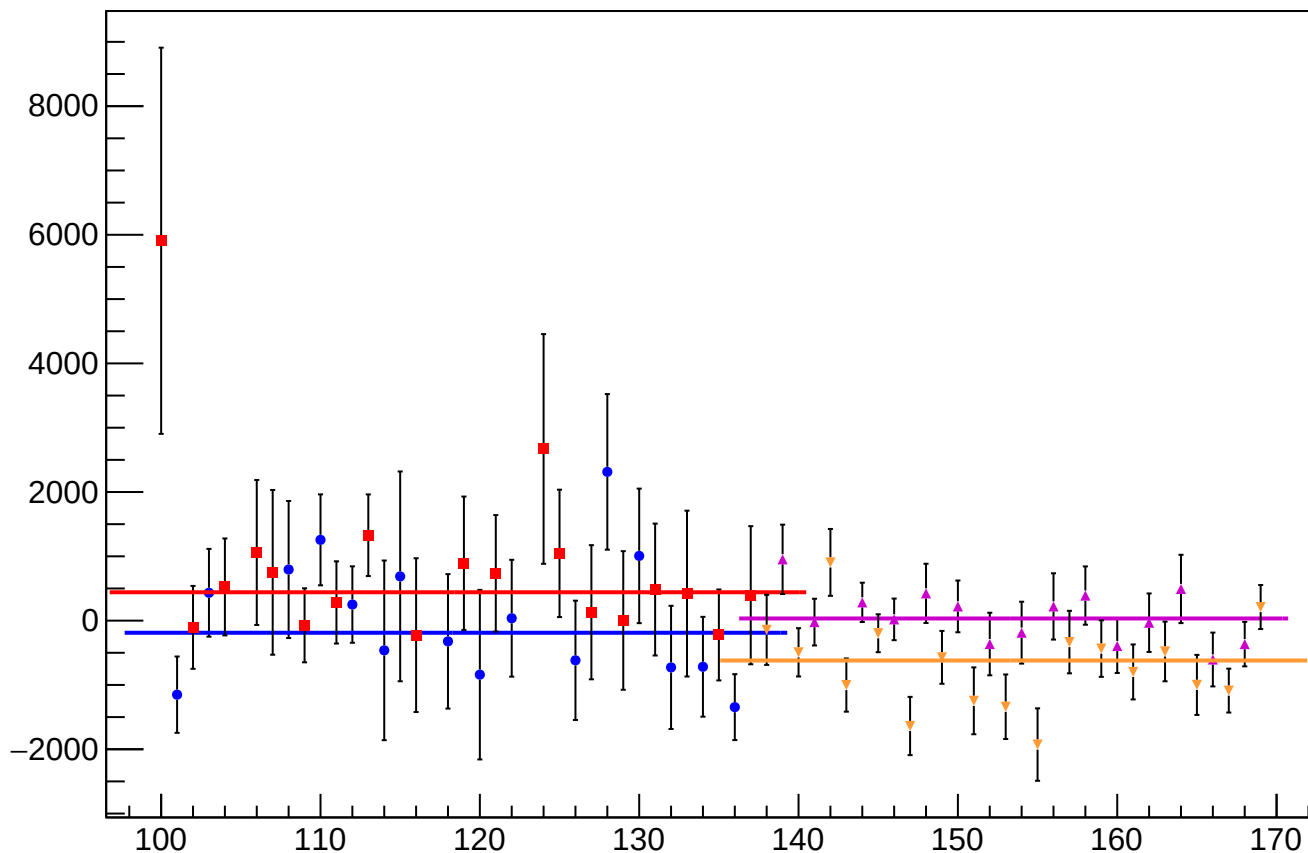
Right: 51.828+/-0.010 χ^2/NDF : 1203588.8/34

In: 50.456+/-0.008 χ^2/NDF : 763668.5/30

Out: 49.902+/-0.008 χ^2/NDF : 815314.3/35

All: 50.168+/-0.006 χ^2/NDF : 1581364.4/66

asym_sam_1357_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -188.541+/-205.813 χ^2/NDF : 21.4/15

Left Out: -619.873+/-102.937 χ^2/NDF :35.6/16

Right Out: 441.171+/-204.111 χ^2/NDF : 10.9/18

Left In: 33.519+/-106.913 χ^2/NDF :11.6/14

Left: -305.552+/-74.153 χ^2/NDF : 66.6/31

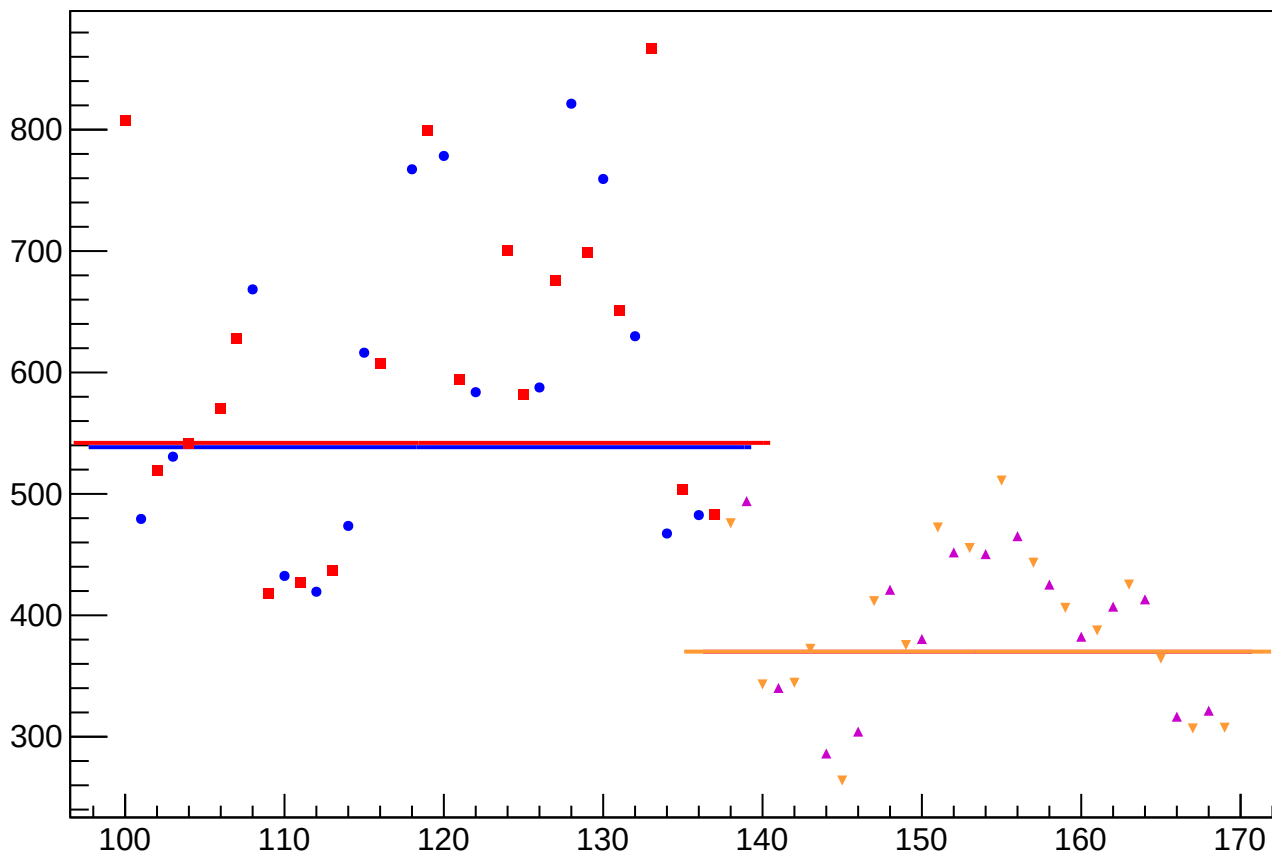
Right: 128.930+/-144.926 χ^2/NDF : 37.0/34

In: -13.669+/-94.875 χ^2/NDF :33.9/30

Out: -404.730+/-91.910 χ^2/NDF :68.0/35

All: -215.406+/-66.014 χ^2/NDF : 110.7/66

asym_sam_1357_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 538.473 $\pm$ 0.146 χ^2 /NDF: 613991.3/15

Left Out: 370.108 $\pm$ 0.073 χ^2 /NDF: 854065.9/16

Right Out: 542.025 $\pm$ 0.144 χ^2 /NDF: 631559.6/18

Left In: 369.965 $\pm$ 0.076 χ^2 /NDF: 688942.4/14

Left: 370.039 $\pm$ 0.052 χ^2 /NDF: 1543010.2/31

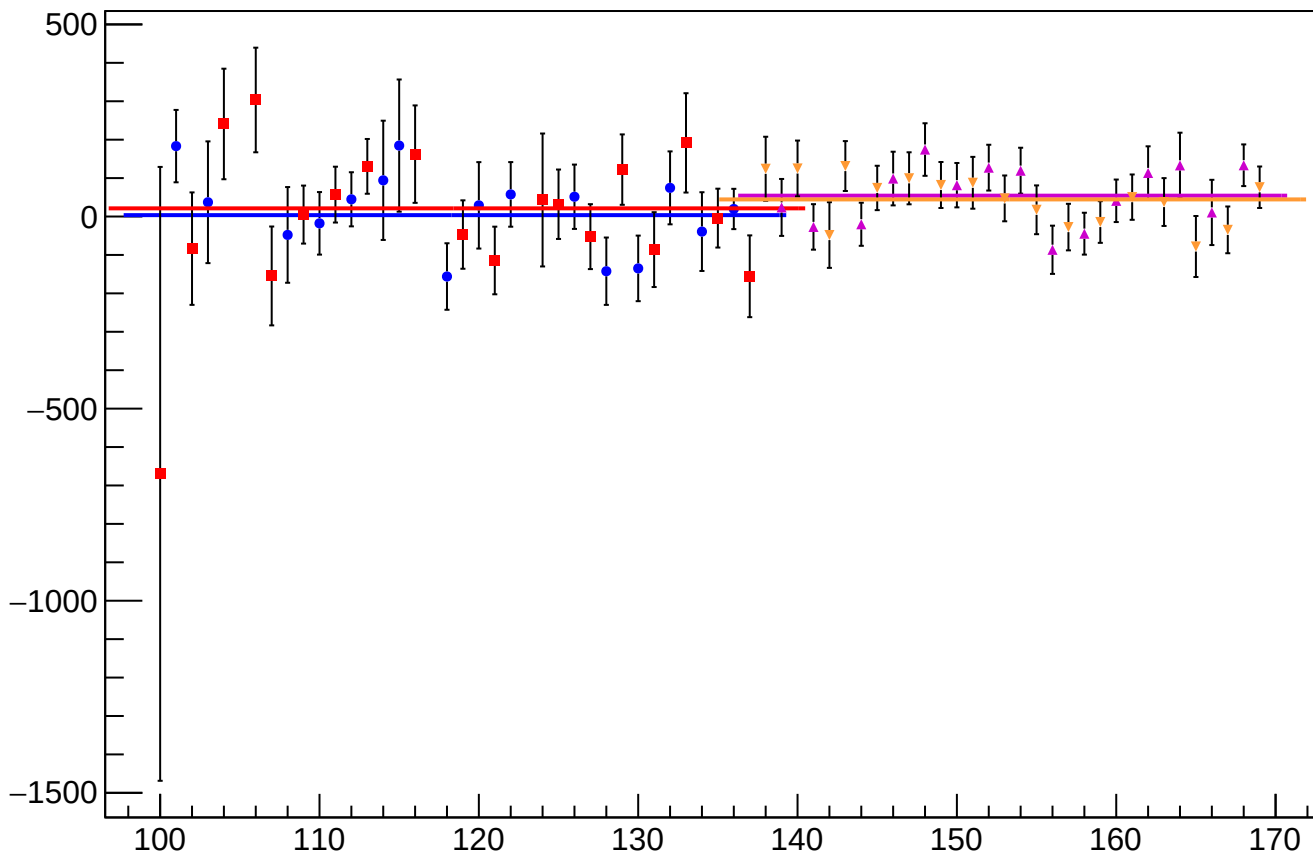
Right: 540.264 $\pm$ 0.102 χ^2 /NDF: 1245851.3/34

In: 405.773 $\pm$ 0.067 χ^2 /NDF: 2358723.0/30

Out: 404.967 $\pm$ 0.065 χ^2 /NDF: 2616784.5/35

All: 405.357 $\pm$ 0.047 χ^2 /NDF: 4975582.0/66

dit_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 3.597 ± 22.480 χ^2/NDF : 16.1/15

Left Out: 44.511 ± 15.460 χ^2/NDF : 14.1/16

Right Out: 21.253 ± 22.769 χ^2/NDF : 24.4/18

Left In: 54.269 ± 16.205 χ^2/NDF : 22.6/14

Left: 49.161 ± 11.186 χ^2/NDF : 36.8/31

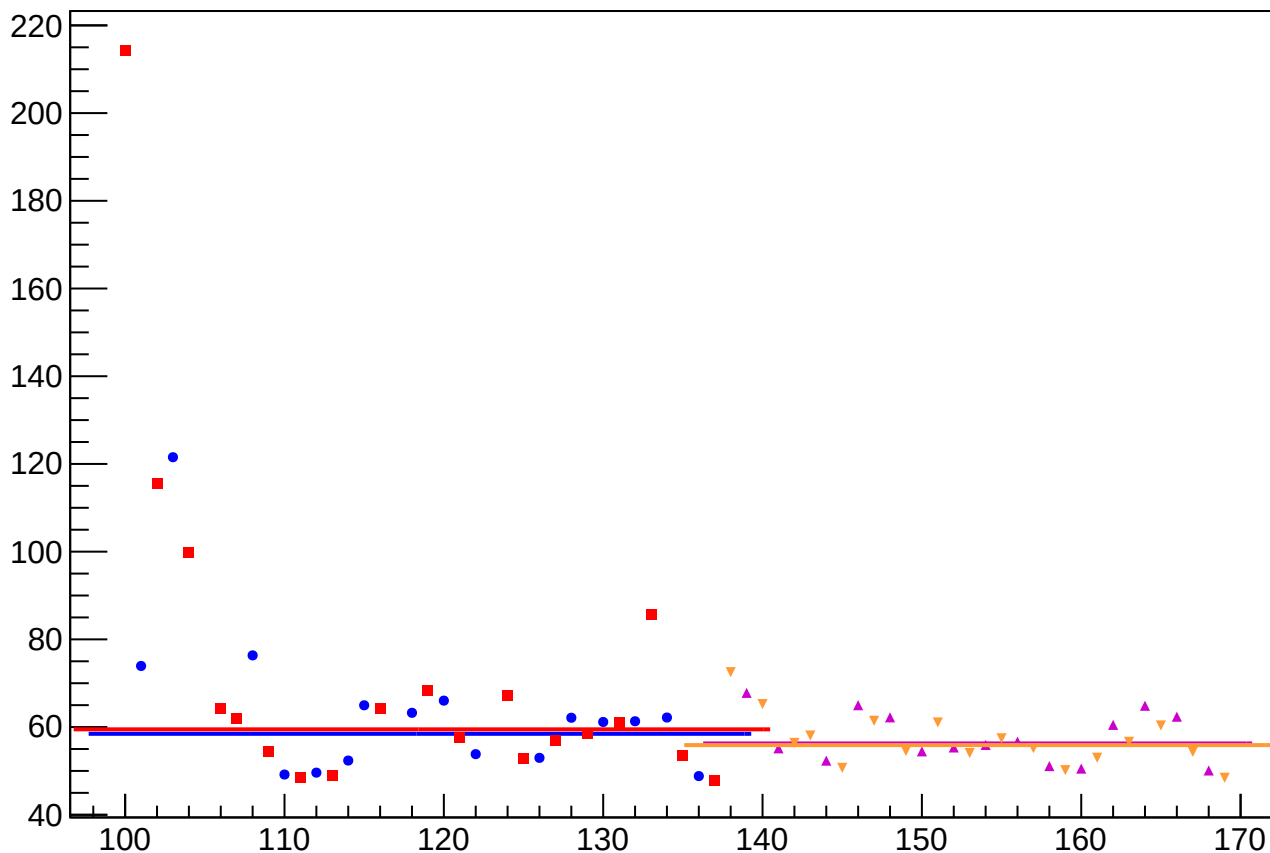
Right: 12.313 ± 15.997 χ^2/NDF : 40.9/34

In: 36.942 ± 13.145 χ^2/NDF : 42.1/30

Out: 37.172 ± 12.790 χ^2/NDF : 39.2/35

All: 37.060 ± 9.167 χ^2/NDF : 81.3/66

dit_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 58.465 $\pm$ 0.016 χ^2 /NDF: 582984.2/15

Left Out: 55.891 $\pm$ 0.011 χ^2 /NDF: 233694.0/16

Right Out: 59.484 $\pm$ 0.016 χ^2 /NDF: 784880.1/18

Left In: 56.274 $\pm$ 0.011 χ^2 /NDF: 211309.9/14

Left: 56.074 $\pm$ 0.008 χ^2 /NDF: 445588.2/31

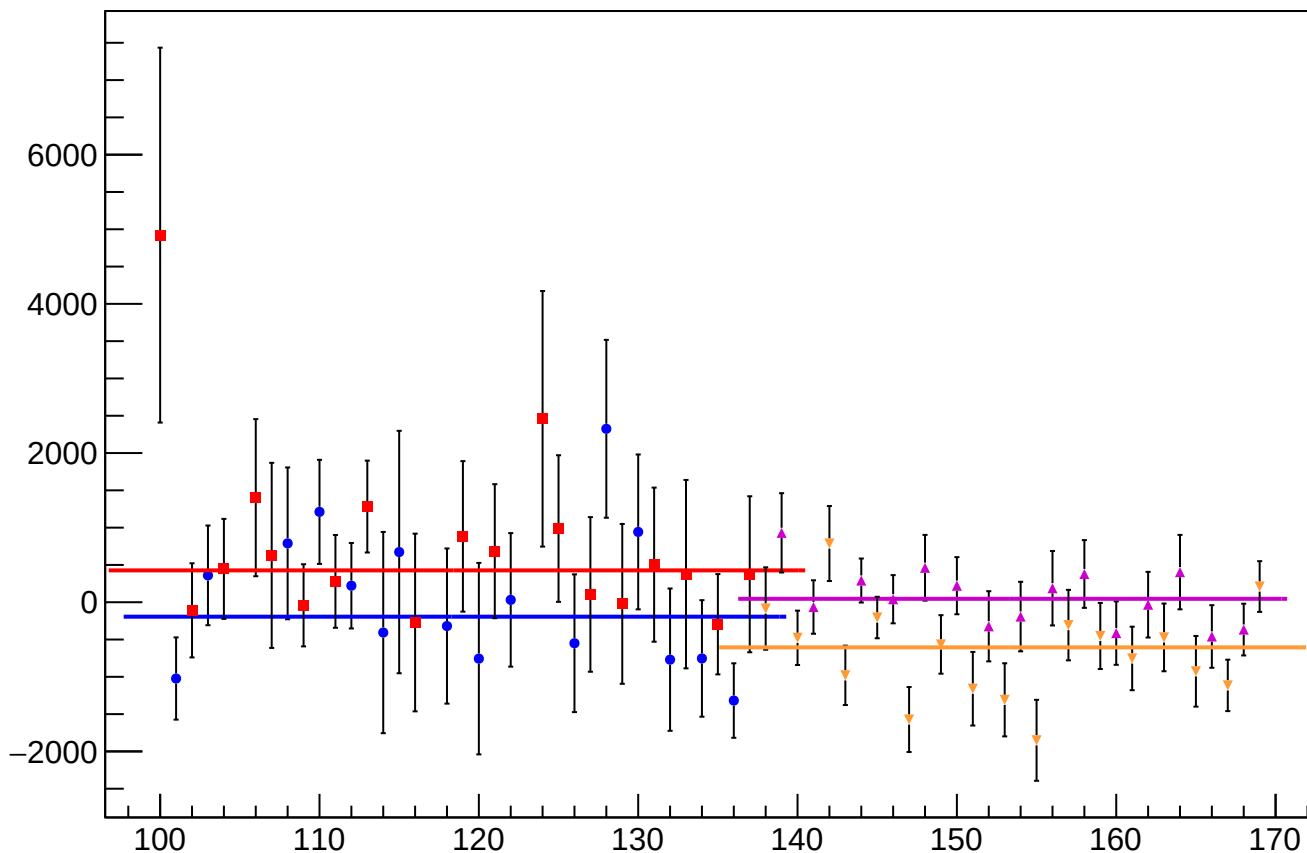
Right: 58.968 $\pm$ 0.011 χ^2 /NDF: 1369891.4/34

In: 57.023 $\pm$ 0.009 χ^2 /NDF: 806799.7/30

Out: 57.025 $\pm$ 0.009 χ^2 /NDF: 1052658.1/35

All: 57.024 $\pm$ 0.006 χ^2 /NDF: 1859457.8/66

asym_sam_1357_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -193.899 $\pm$ 200.604 χ^2 /NDF: 20.8/15

Left Out: -605.291 $\pm$ 100.552 χ^2 /NDF:34.3/16

Right Out: 426.977 $\pm$ 197.005 χ^2 /NDF: 11.3/18

Left In: 45.775 $\pm$ 104.797 χ^2 /NDF:10.7/14

Left: -293.211 $\pm$ 72.556 χ^2 /NDF: 65.1/31

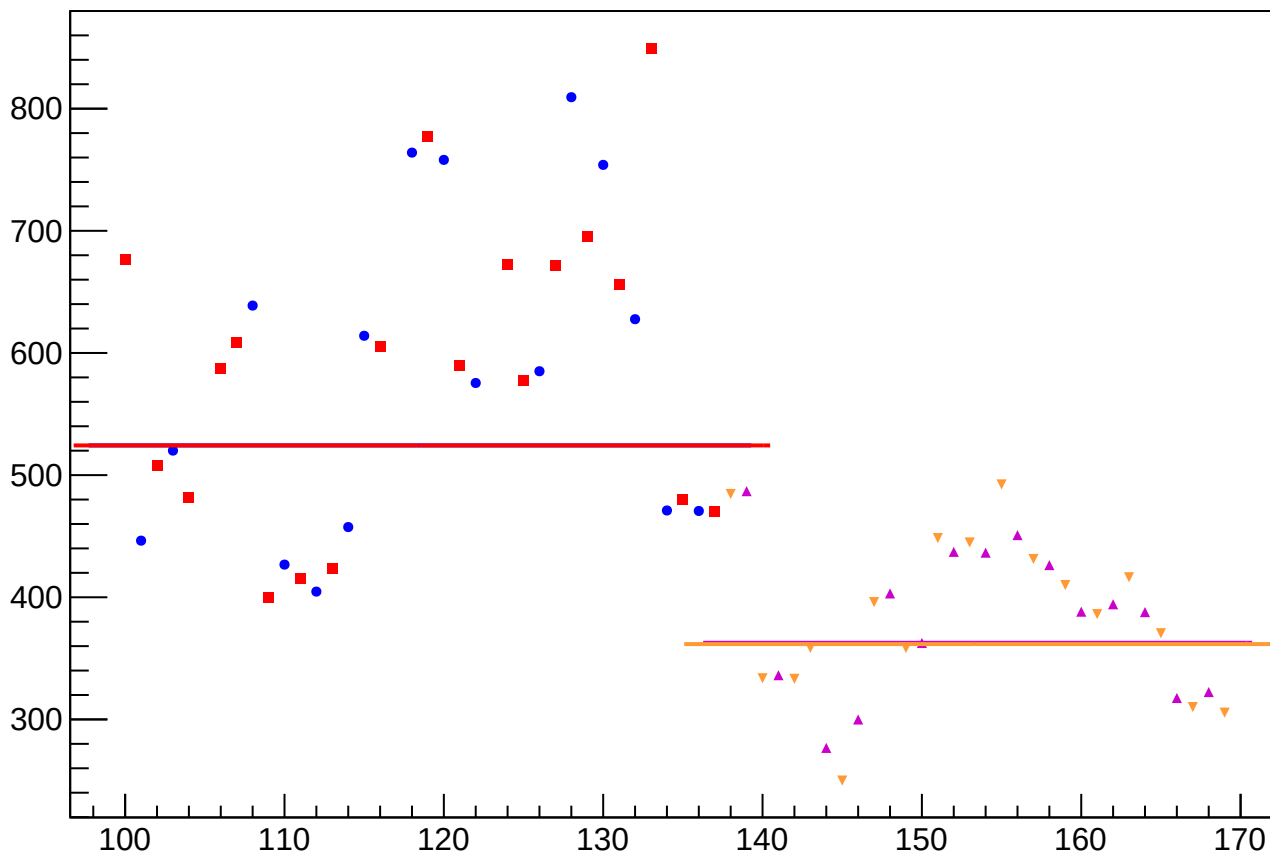
Right: 122.158 $\pm$ 140.559 χ^2 /NDF: 37.0/34

In: -5.611 $\pm$ 92.886 χ^2 /NDF:32.6/30

Out: -391.950 $\pm$ 89.561 χ^2 /NDF:67.4/35

All: -205.819 $\pm$ 64.473 χ^2 /NDF: 109.0/66

asym_sam_1357_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 524.326+/-0.142 χ^2/NDF : 658488.5/15

Left Out: 361.673+/-0.071 χ^2/NDF : 891208.2/16

Right Out: 524.306+/-0.139 χ^2/NDF : 686061.2/18

Left In: 362.736+/-0.074 χ^2/NDF : 657025.1/14

Left: 362.183+/-0.051 χ^2/NDF : 1548340.5/31

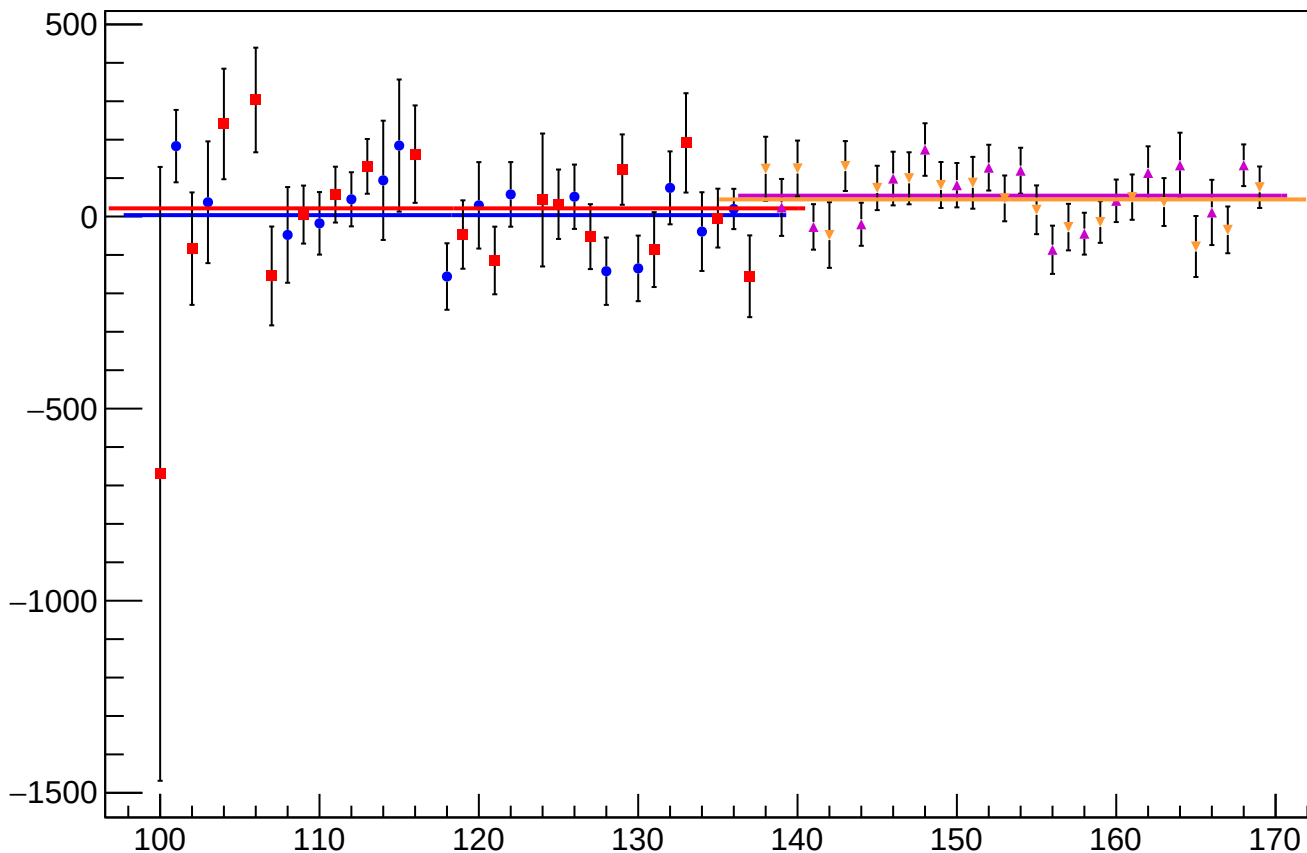
Right: 524.316+/-0.099 χ^2/NDF : 1344549.7/34

In: 397.381+/-0.066 χ^2/NDF : 2335005.0/30

Out: 395.285+/-0.063 χ^2/NDF : 2658576.1/35

All: 396.295+/-0.046 χ^2/NDF : 4994109.0/66

eigen_dit_asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 3.597 ± 22.480 χ^2/NDF : 16.1/15

Left Out: 44.511 ± 15.460 χ^2/NDF : 14.1/16

Right Out: 21.251 ± 22.769 χ^2/NDF : 24.4/18

Left In: 54.269 ± 16.205 χ^2/NDF : 22.6/14

Left: 49.161 ± 11.186 χ^2/NDF : 36.8/31

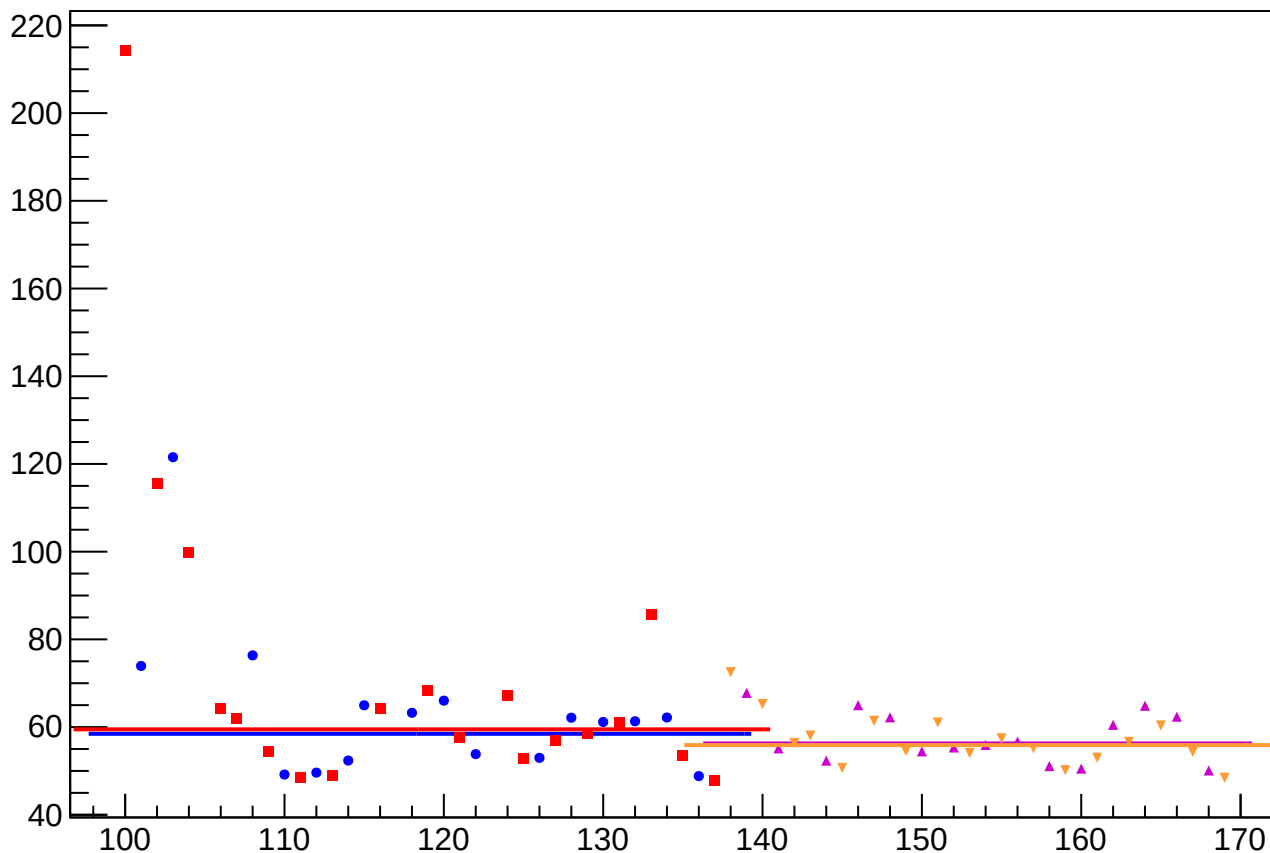
Right: 12.312 ± 15.997 χ^2/NDF : 40.9/34

In: 36.942 ± 13.145 χ^2/NDF : 42.1/30

Out: 37.172 ± 12.790 χ^2/NDF : 39.2/35

All: 37.060 ± 9.167 χ^2/NDF : 81.3/66

eigen_dit_asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 58.466+/-0.016 χ^2/NDF : 582980.6/15

Left Out: 55.891+/-0.011 χ^2/NDF : 233699.4/16

Right Out: 59.484+/-0.016 χ^2/NDF : 784880.2/18

Left In: 56.274+/-0.011 χ^2/NDF : 211312.8/14

Left: 56.074+/-0.008 χ^2/NDF : 445596.4/31

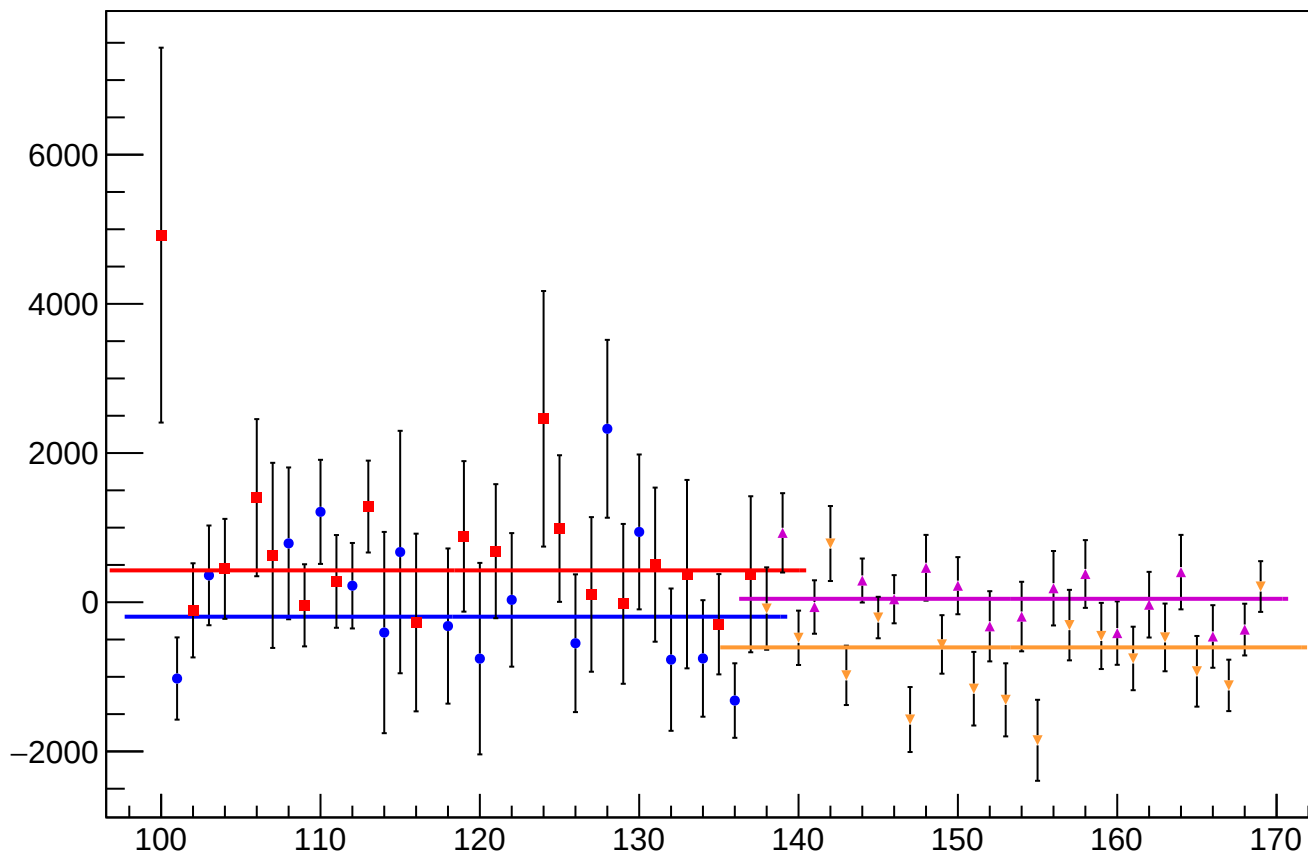
Right: 58.968+/-0.011 χ^2/NDF : 1369888.0/34

In: 57.024+/-0.009 χ^2/NDF : 806798.6/30

Out: 57.025+/-0.009 χ^2/NDF : 1052663.0/35

All: 57.024+/-0.006 χ^2/NDF : 1859461.6/66

asym_sam_1357_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -193.899 ± 200.603 $\chi^2/\text{NDF}: 20.8/15$

Left Out: -605.291 ± 100.552 $\chi^2/\text{NDF}: 34.3/16$

Right Out: 426.976 ± 197.005 $\chi^2/\text{NDF}: 11.3/18$

Left In: 45.775 ± 104.797 $\chi^2/\text{NDF}: 10.7/14$

Left: -293.211 ± 72.555 $\chi^2/\text{NDF}: 65.1/31$

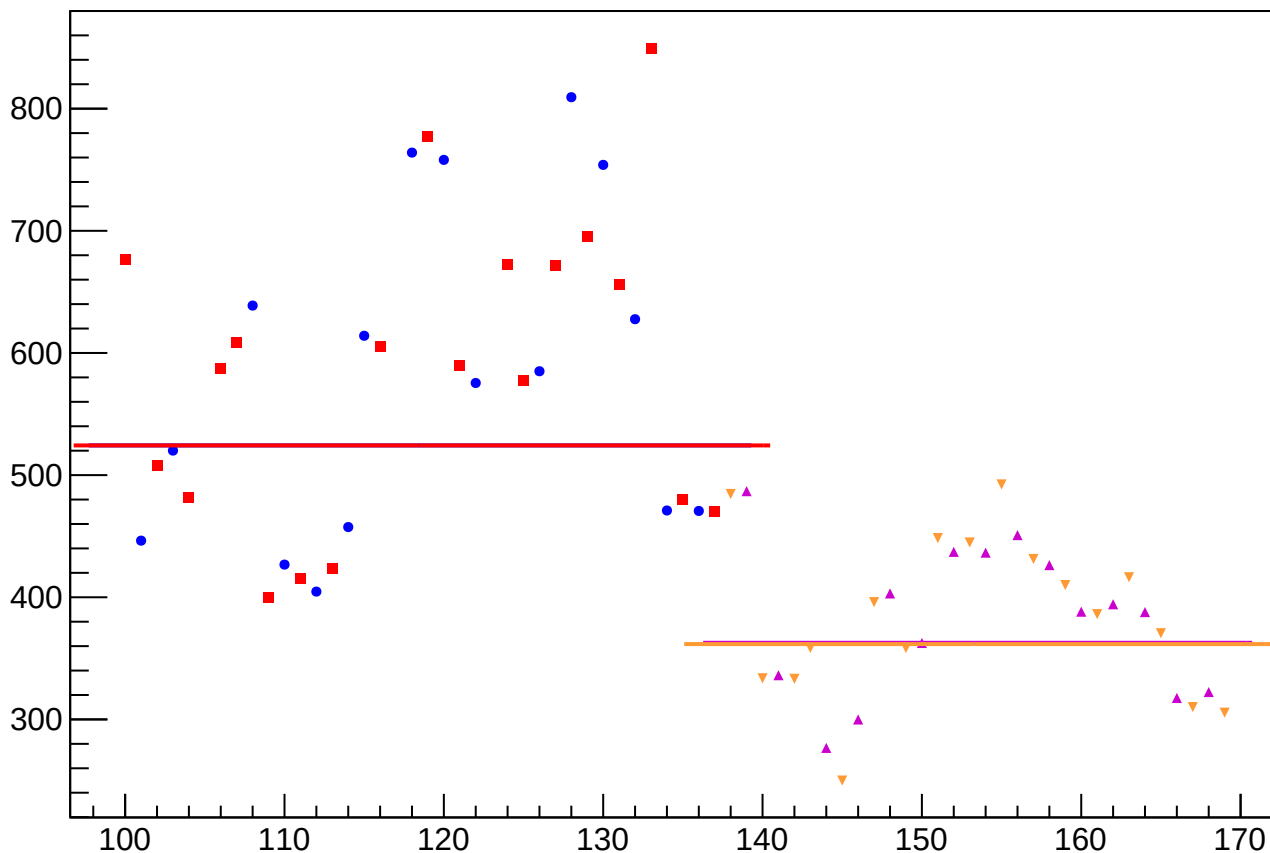
Right: 122.157 ± 140.558 $\chi^2/\text{NDF}: 37.0/34$

In: -5.611 ± 92.886 $\chi^2/\text{NDF}: 32.6/30$

Out: -391.950 ± 89.561 $\chi^2/\text{NDF}: 67.4/35$

All: -205.819 ± 64.473 $\chi^2/\text{NDF}: 109.0/66$

asym_sam_1357_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 524.325+/-0.142 χ^2/NDF : 658493.8/15

Left Out: 361.672+/-0.071 χ^2/NDF : 891204.5/16

Right Out: 524.305+/-0.139 χ^2/NDF : 686063.6/18

Left In: 362.736+/-0.074 χ^2/NDF : 657022.0/14

Left: 362.182+/-0.051 χ^2/NDF : 1548333.7/31

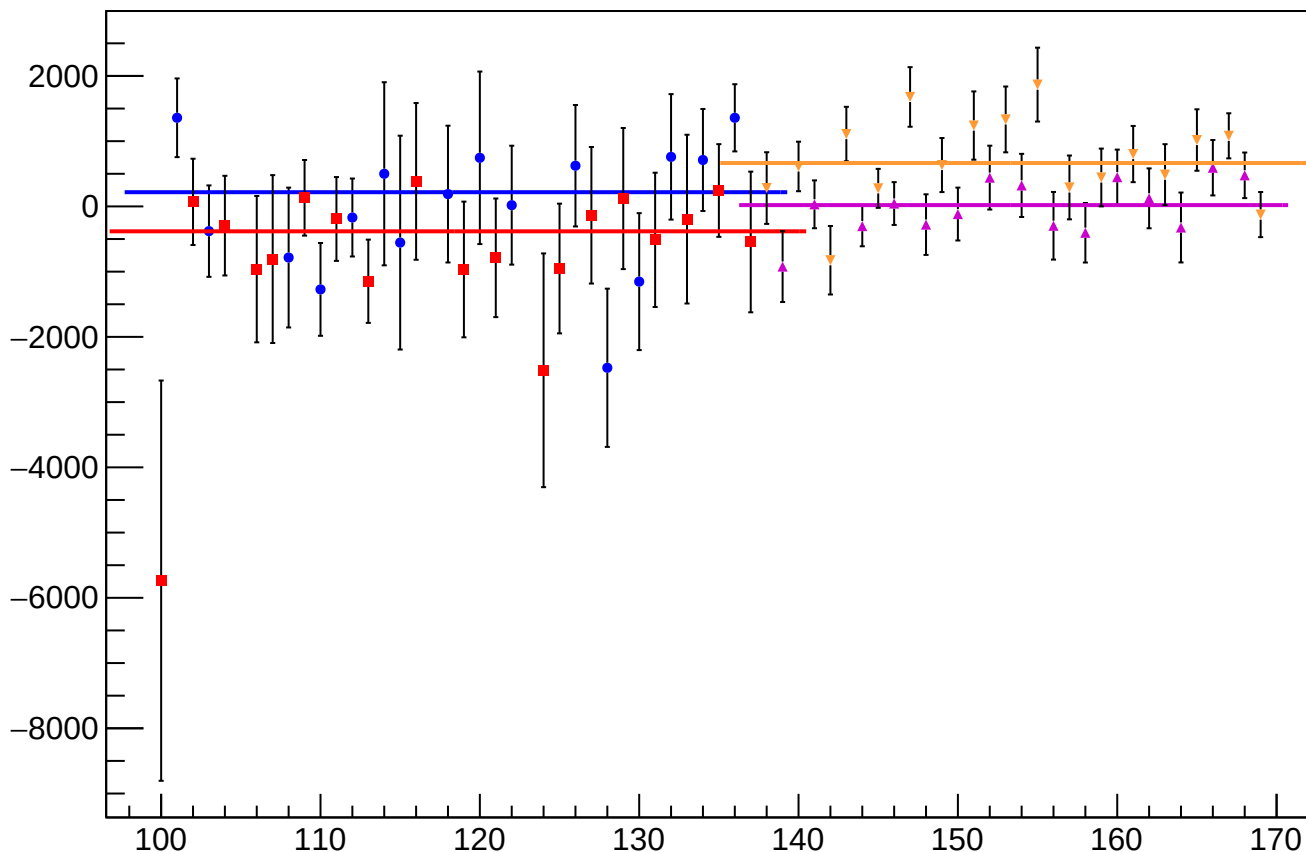
Right: 524.315+/-0.099 χ^2/NDF : 1344557.5/34

In: 397.381+/-0.066 χ^2/NDF : 2335001.3/30

Out: 395.284+/-0.063 χ^2/NDF : 2658568.3/35

All: 396.294+/-0.046 χ^2/NDF : 4994097.6/66

asym_sam_1357_avg_mean vs Slug, Sign Corrected



Right In: 217.756 $\pm$ 207.492 χ^2 /NDF: 22.9/15

Left Out: 665.086 $\pm$ 103.901 χ^2 /NDF:32.1/16

Right Out: -381.836 $\pm$ 205.585 χ^2 /NDF: 10.0/18

Left In: 19.940 $\pm$ 107.940 χ^2 /NDF:12.0/14

Left: 354.809 $\pm$ 74.856 χ^2 /NDF: 62.7/31

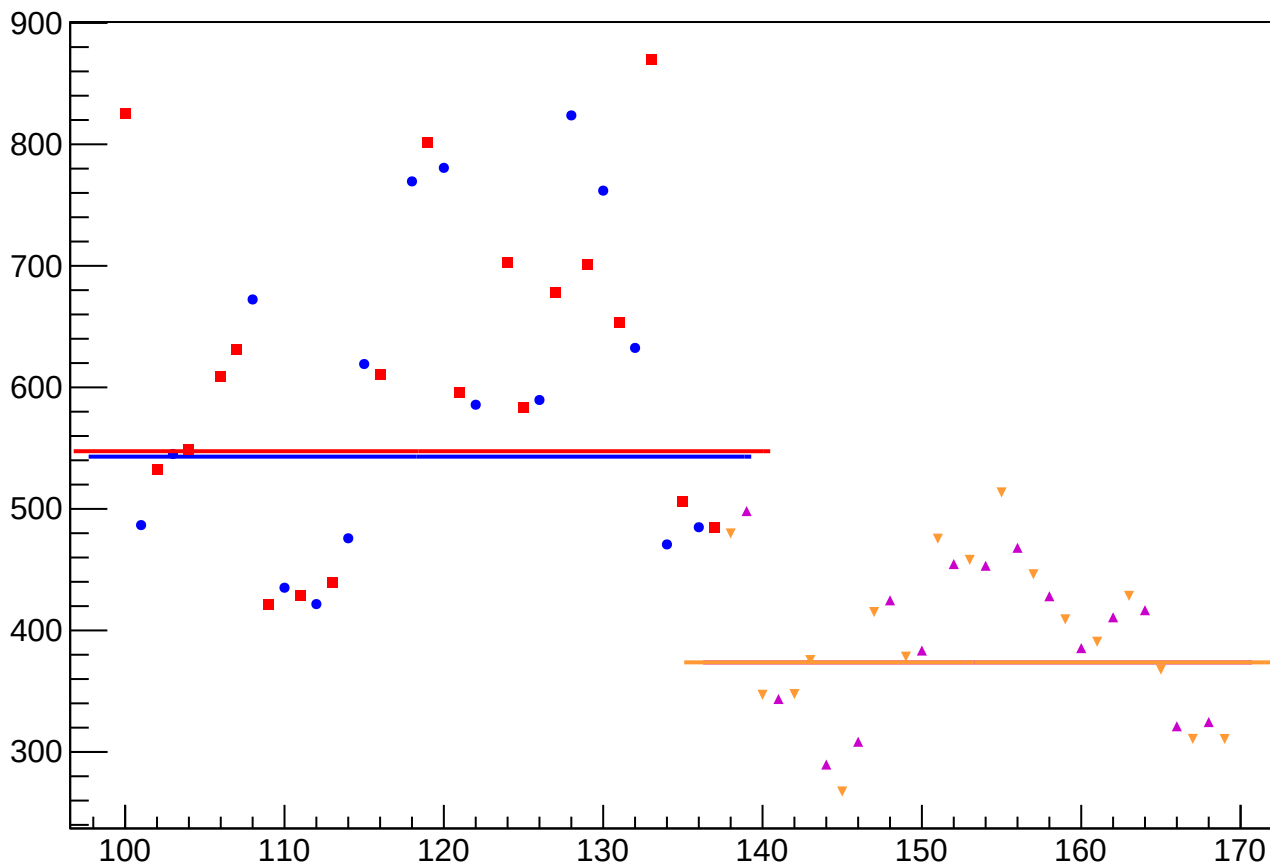
Right: -84.807 $\pm$ 146.040 χ^2 /NDF: 37.1/34

In: 62.071 $\pm$ 95.758 χ^2 /NDF:35.6/30

Out: 452.085 $\pm$ 92.731 χ^2 /NDF:62.7/35

All: 263.339 $\pm$ 66.615 χ^2 /NDF: 106.9/66

asym_sam_1357_avg_rms vs Slug, Sign Corrected



Right In: 542.997 $\pm$ 0.147 χ^2 /NDF: 605250.7/15

Left Out: 373.728 $\pm$ 0.073 χ^2 /NDF: 833310.6/16

Right Out: 547.465 $\pm$ 0.145 χ^2 /NDF: 630284.0/18

Left In: 373.670 $\pm$ 0.076 χ^2 /NDF: 671620.9/14

Left: 373.700 $\pm$ 0.053 χ^2 /NDF: 1504931.9/31

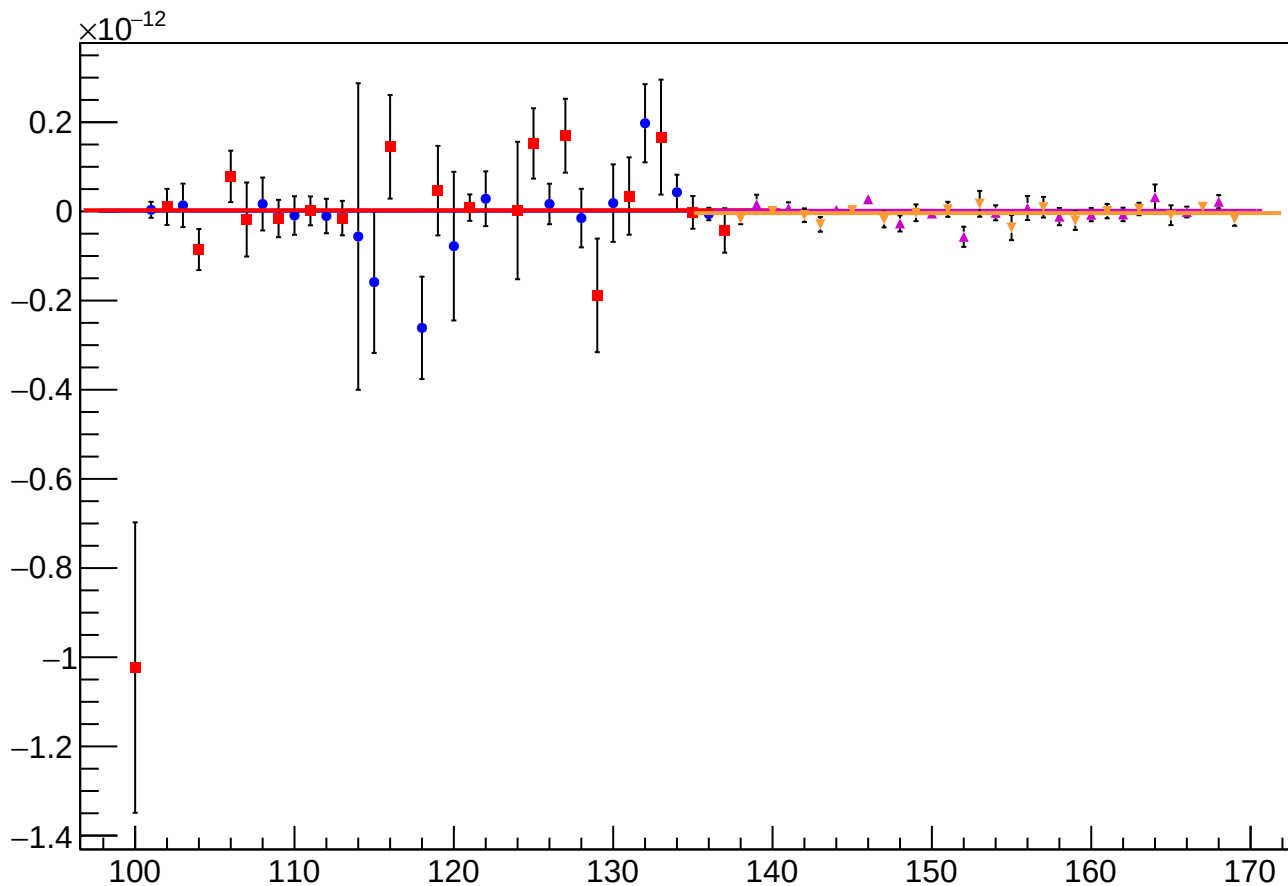
Right: 545.252 $\pm$ 0.103 χ^2 /NDF: 1236002.5/34

In: 409.734 $\pm$ 0.068 χ^2 /NDF: 2325129.8/30

Out: 409.075 $\pm$ 0.066 χ^2 /NDF: 2601331.8/35

All: 409.394 $\pm$ 0.047 χ^2 /NDF: 4926510.4/66

asym_sam_1357_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 13.6/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:10.7/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 30.1/18

Left In: 0.000 $\pm$ 0.000 χ^2 /NDF:20.0/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 31.7/31

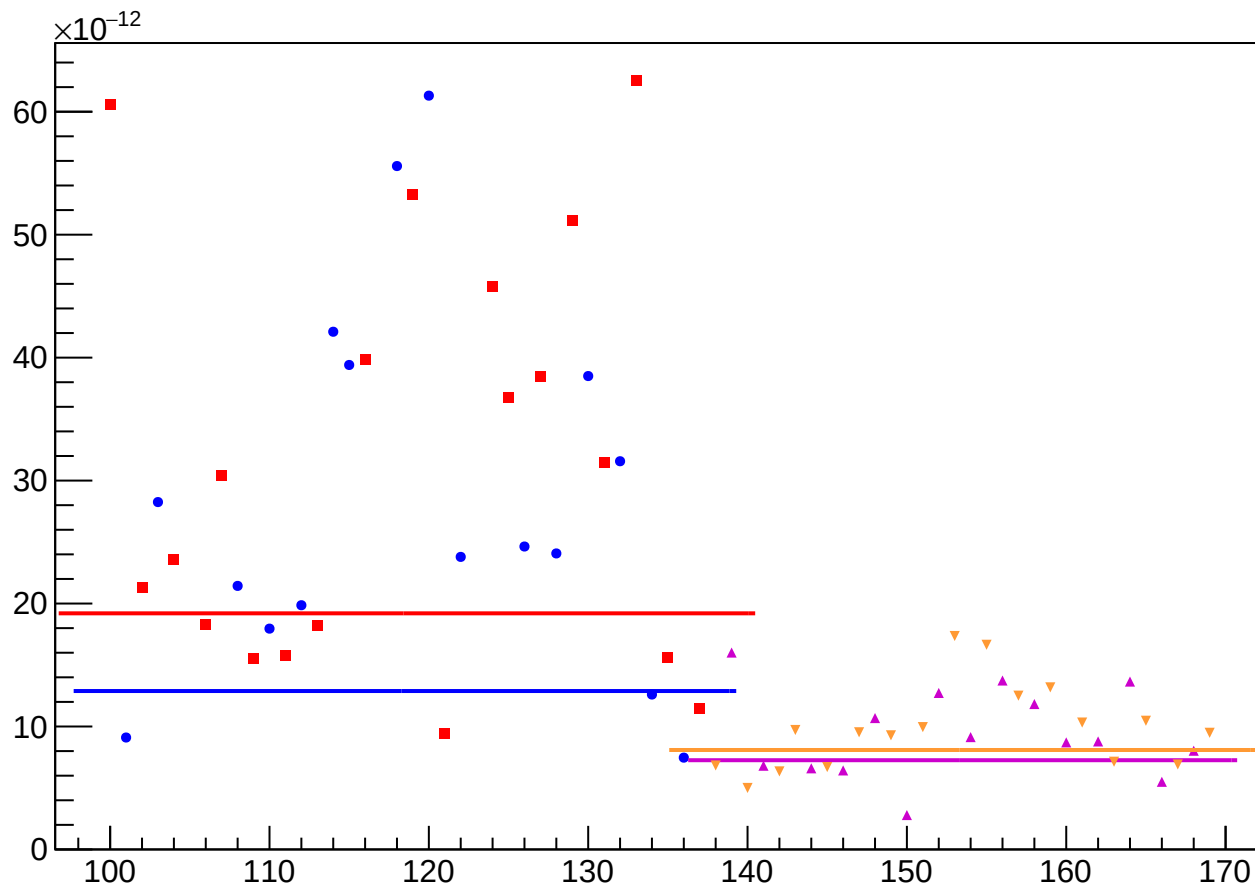
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 43.7/34

In: 0.000 $\pm$ 0.000 χ^2 /NDF:33.6/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:41.0/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 75.5/66

asym_sam_1357_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1756750.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1070984.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1367620.8/18

Left In: 0.000+/-0.000 χ^2/NDF : 1549990.5/14

Left: 0.000+/-0.000 χ^2/NDF : 2672664.0/31

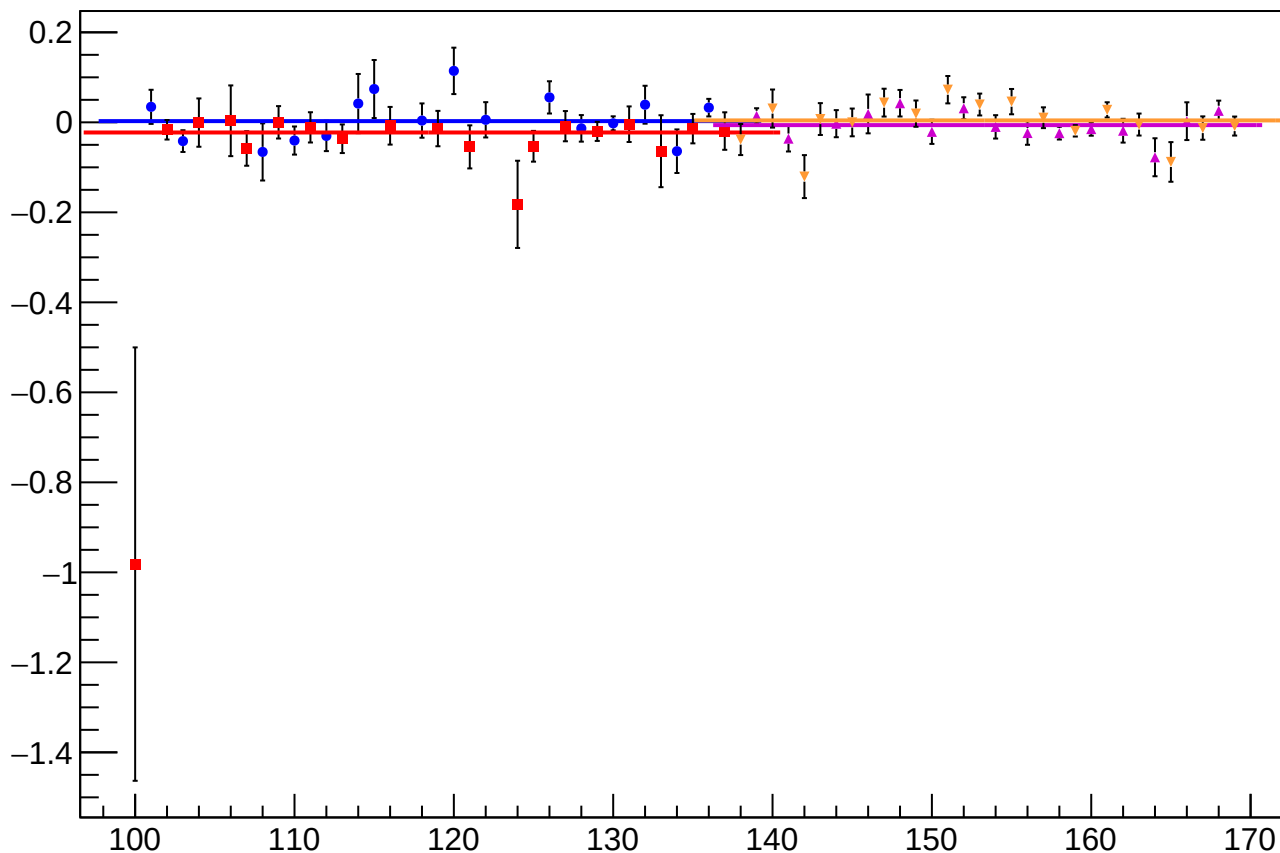
Right: 0.000+/-0.000 χ^2/NDF : 3472471.7/34

In: 0.000+/-0.000 χ^2/NDF : 3968555.3/30

Out: 0.000+/-0.000 χ^2/NDF : 3978357.2/35

All: 0.000+/-0.000 χ^2/NDF : 8023861.8/66

asym_sam_1357_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.008 $\chi^2/\text{NDF}: 22.0/15$

Left Out: 0.004 ± 0.006 $\chi^2/\text{NDF}: 30.7/16$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: -0.006 ± 0.006 $\chi^2/\text{NDF}: 15.8/14$

Left: -0.001 ± 0.004 $\chi^2/\text{NDF}: 47.9/31$

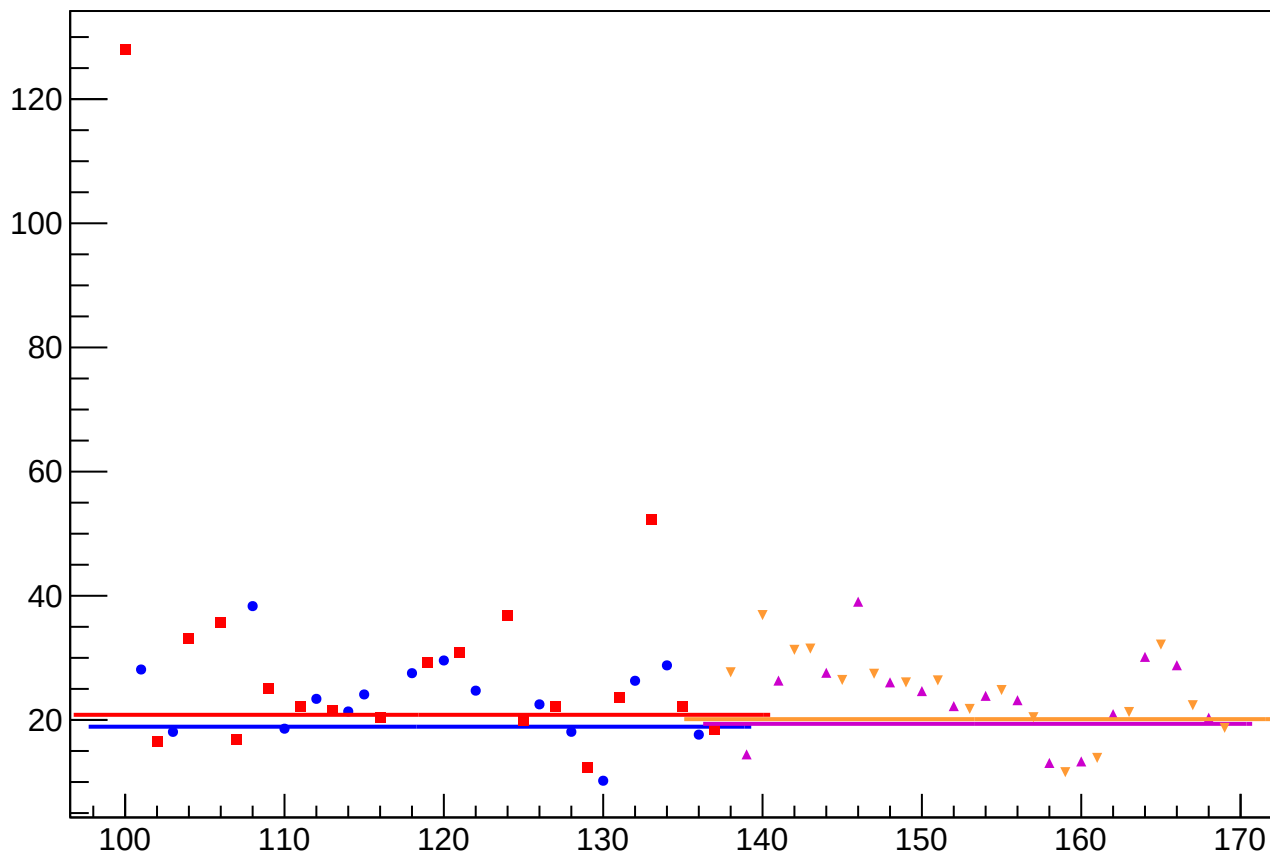
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: -0.003 ± 0.005 $\chi^2/\text{NDF}: 38.5/30$

Out: -0.005 ± 0.005 $\chi^2/\text{NDF}: 48.1/35$

All: -0.004 ± 0.003 $\chi^2/\text{NDF}: 86.7/66$

asym_sam_1357_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 18.911 $\pm$ 0.006 χ^2 /NDF: 1390349.2/15

Left Out: 20.129 $\pm$ 0.004 χ^2 /NDF: 2513210.8/16

Right Out: 20.826 $\pm$ 0.006 χ^2 /NDF: 1291541.1/18

Left In: 19.372 $\pm$ 0.004 χ^2 /NDF: 2131138.8/14

Left: 19.750 $\pm$ 0.003 χ^2 /NDF: 4660102.9/31

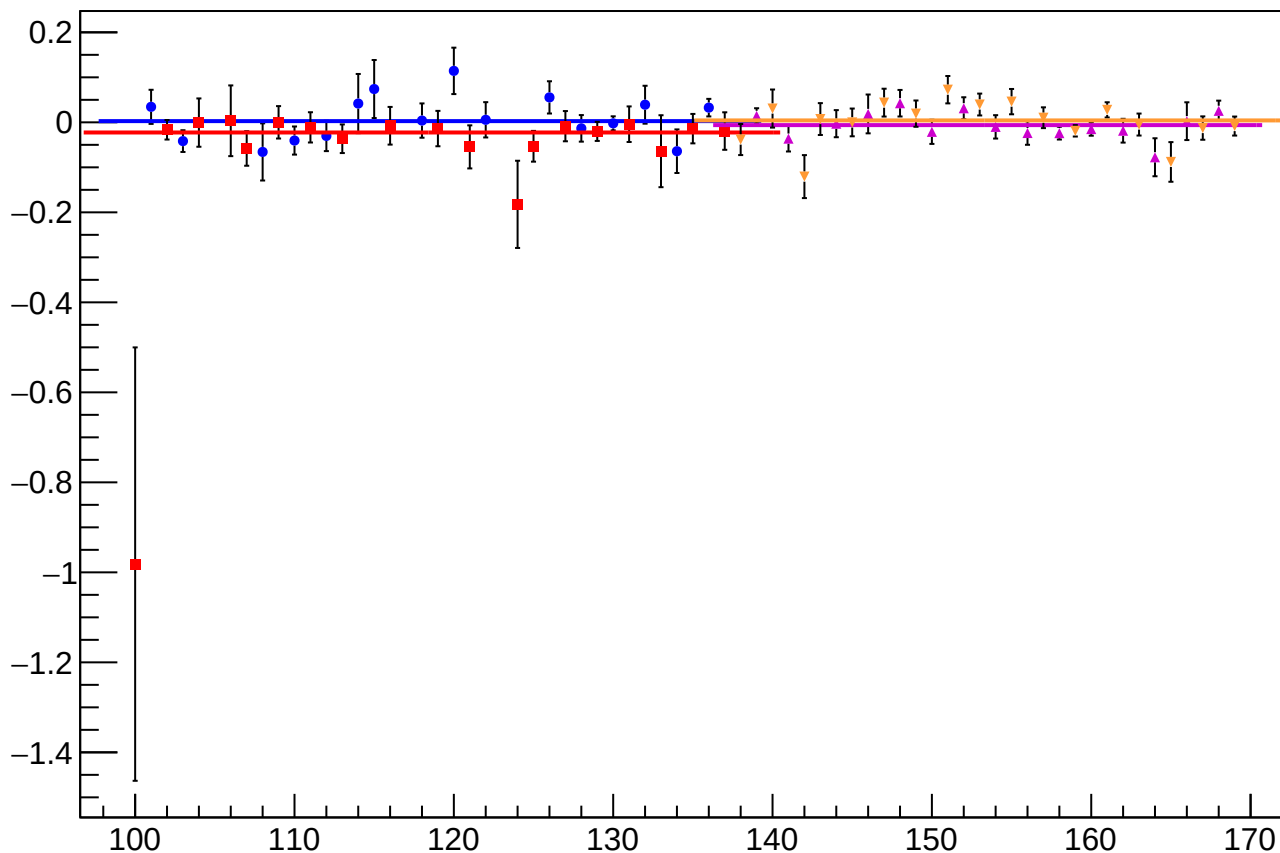
Right: 19.793 $\pm$ 0.004 χ^2 /NDF: 2737339.0/34

In: 19.200 $\pm$ 0.003 χ^2 /NDF: 3525847.9/30

Out: 20.364 $\pm$ 0.003 χ^2 /NDF: 3813787.5/35

All: 19.765 $\pm$ 0.002 χ^2 /NDF: 7397514.5/66

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.008 $\chi^2/\text{NDF}: 22.0/15$

Left Out: 0.004 ± 0.006 $\chi^2/\text{NDF}: 30.7/16$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: -0.006 ± 0.006 $\chi^2/\text{NDF}: 15.8/14$

Left: -0.001 ± 0.004 $\chi^2/\text{NDF}: 47.9/31$

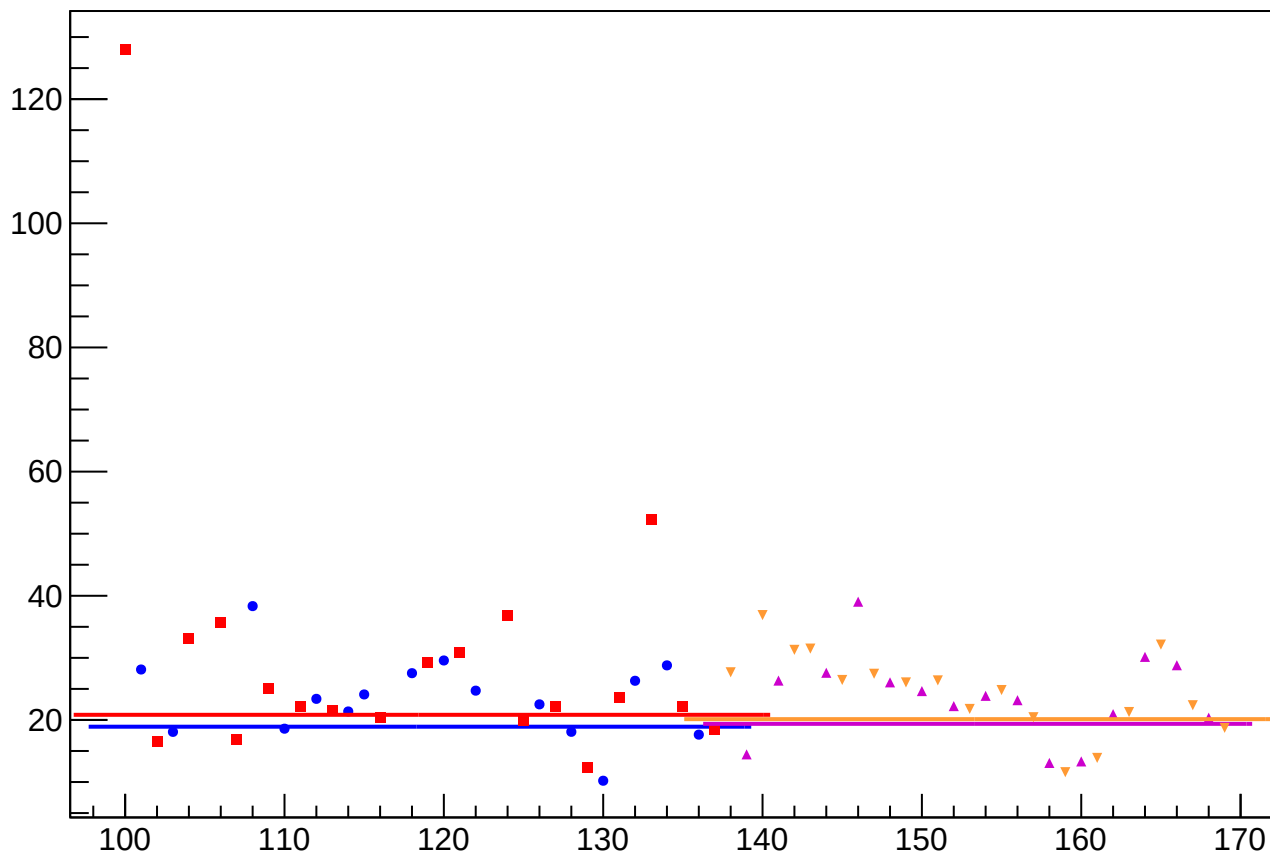
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: -0.003 ± 0.005 $\chi^2/\text{NDF}: 38.5/30$

Out: -0.005 ± 0.005 $\chi^2/\text{NDF}: 48.1/35$

All: -0.004 ± 0.003 $\chi^2/\text{NDF}: 86.7/66$

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 18.911+/-0.006 χ^2/NDF : 1390349.2/15

Left Out: 20.129+/-0.004 χ^2/NDF : 2513210.8/16

Right Out: 20.826+/-0.006 χ^2/NDF : 1291541.1/18

Left In: 19.372+/-0.004 χ^2/NDF : 2131138.8/14

Left: 19.750+/-0.003 χ^2/NDF : 4660102.9/31

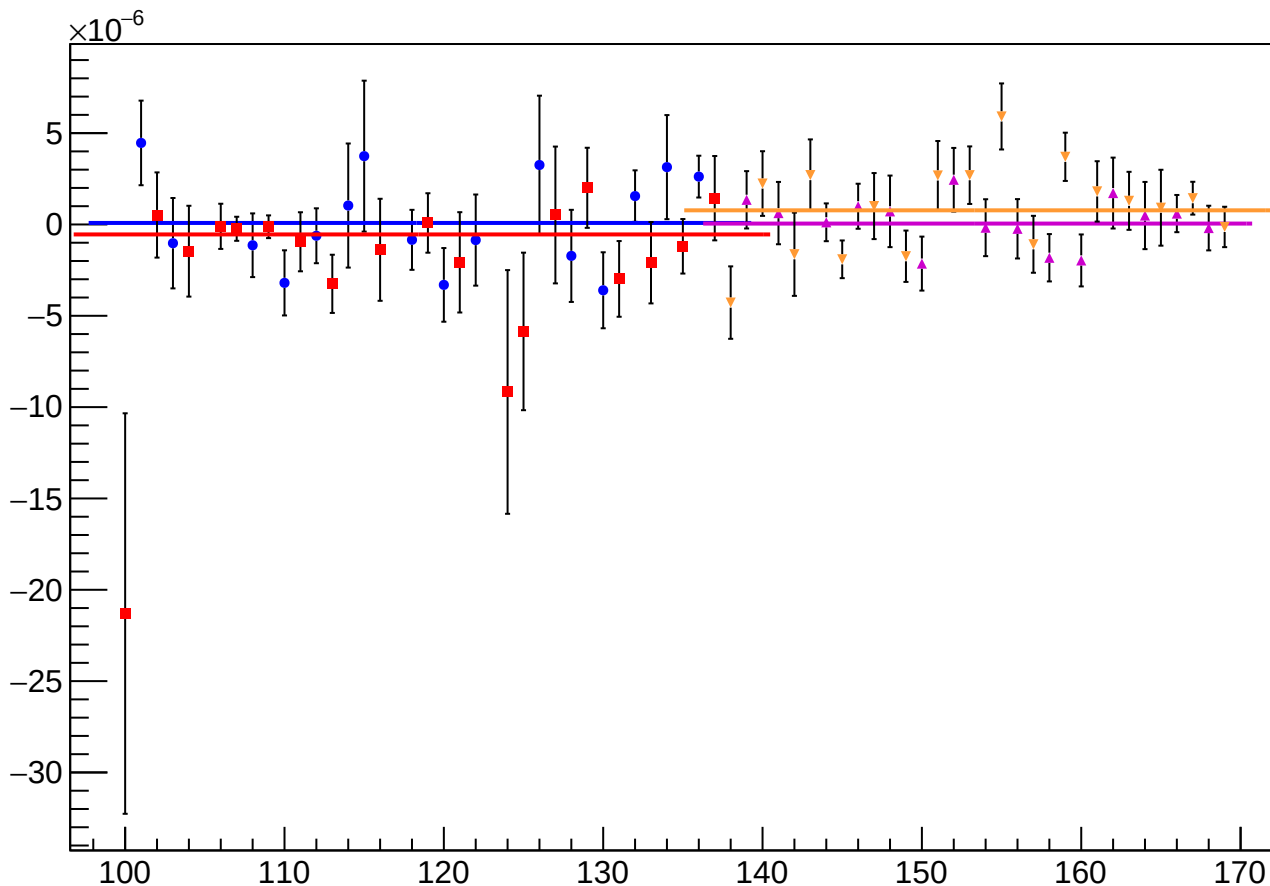
Right: 19.793+/-0.004 χ^2/NDF : 2737339.0/34

In: 19.200+/-0.003 χ^2/NDF : 3525847.9/30

Out: 20.364+/-0.003 χ^2/NDF : 3813787.5/35

All: 19.765+/-0.002 χ^2/NDF : 7397514.5/66

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23.5/15

Left Out: 0.000+/-0.000 χ^2/NDF : 37.9/16

Right Out: -0.000+/-0.000 χ^2/NDF : 15.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 10.9/14

Left: 0.000+/-0.000 χ^2/NDF : 50.8/31

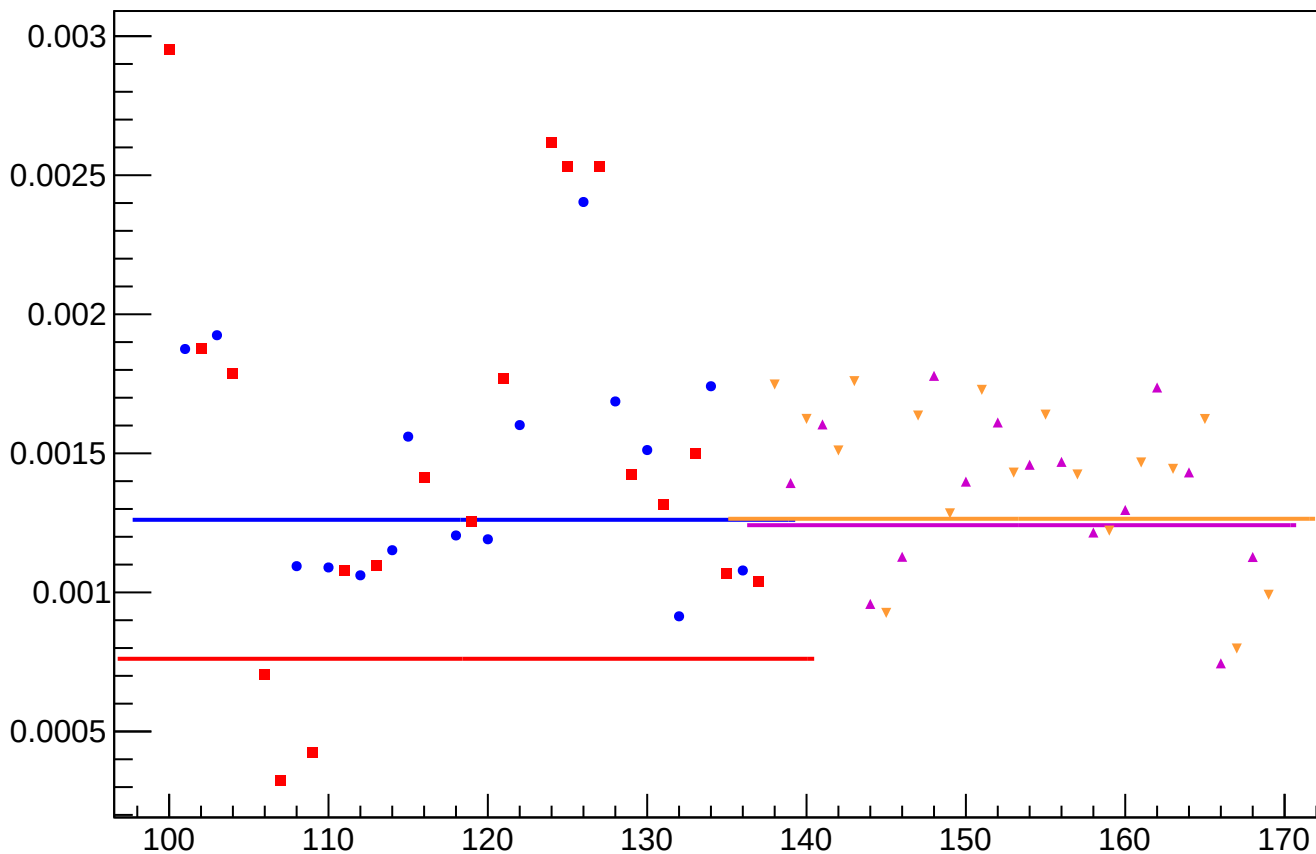
Right: -0.000+/-0.000 χ^2/NDF : 40.3/34

In: 0.000+/-0.000 χ^2/NDF : 34.4/30

Out: 0.000+/-0.000 χ^2/NDF : 60.7/35

All: 0.000+/-0.000 χ^2/NDF : 95.1/66

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000 χ^2/NDF : 907342.5/15

Left Out: 0.001+/-0.000 χ^2/NDF :1680103.4/16

Right Out: 0.001+/-0.000 χ^2/NDF : 4672607.8/18

Left In: 0.001+/-0.000 χ^2/NDF :1264412.8/14

Left: 0.001+/-0.000 χ^2/NDF : 2948567.7/31

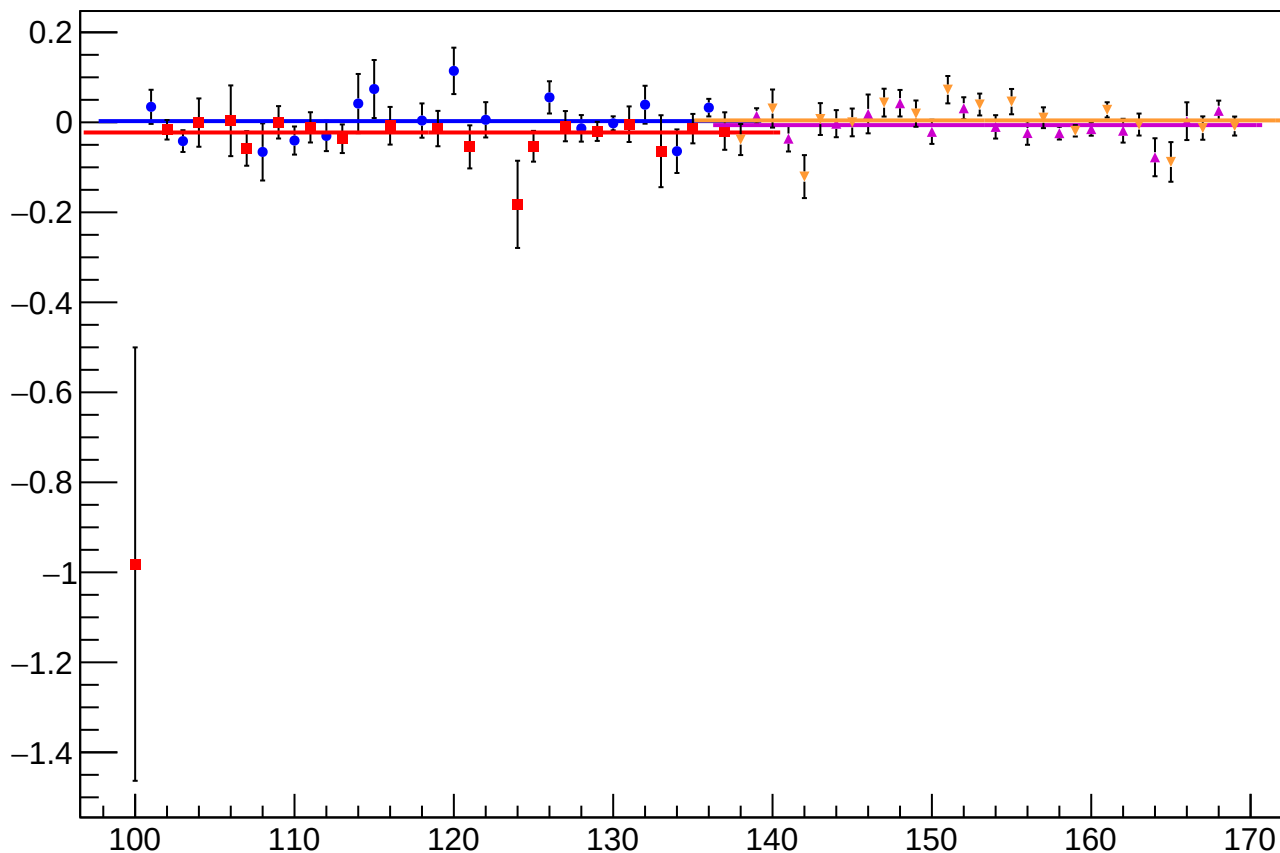
Right: 0.001+/-0.000 χ^2/NDF : 6998069.8/34

In: 0.001+/-0.000 χ^2/NDF :2173772.7/30

Out: 0.001+/-0.000 χ^2/NDF :8441905.6/35

All: 0.001+/-0.000 χ^2/NDF : 11469575.5/66

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.008 $\chi^2/\text{NDF}: 22.0/15$

Left Out: 0.004 ± 0.006 $\chi^2/\text{NDF}: 30.7/16$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: -0.006 ± 0.006 $\chi^2/\text{NDF}: 15.8/14$

Left: -0.001 ± 0.004 $\chi^2/\text{NDF}: 47.9/31$

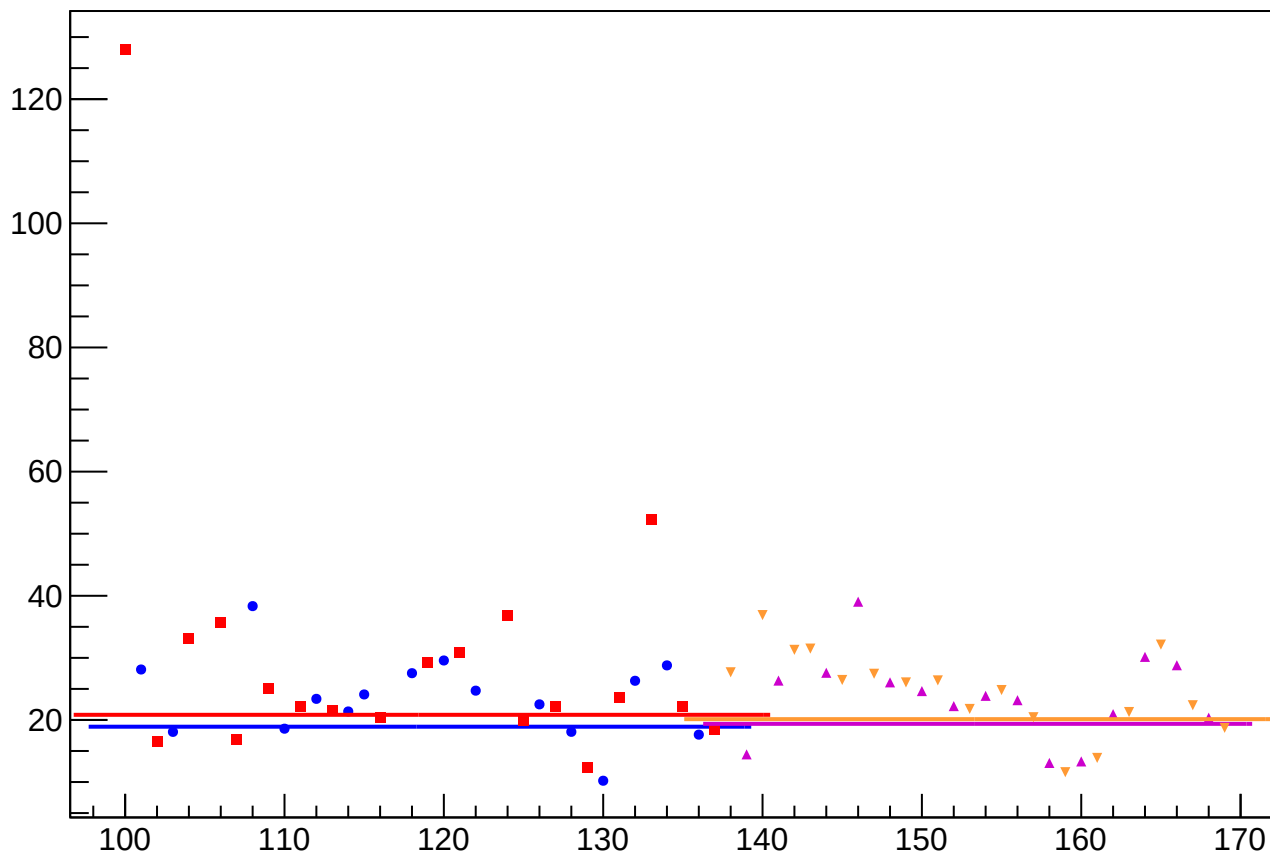
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: -0.003 ± 0.005 $\chi^2/\text{NDF}: 38.5/30$

Out: -0.005 ± 0.005 $\chi^2/\text{NDF}: 48.1/35$

All: -0.004 ± 0.003 $\chi^2/\text{NDF}: 86.7/66$

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 18.912 $\pm$ 0.006 χ^2 /NDF: 1390233.4/15

Left Out: 20.129 $\pm$ 0.004 χ^2 /NDF: 2513405.0/16

Right Out: 20.827 $\pm$ 0.006 χ^2 /NDF: 1291537.3/18

Left In: 19.372 $\pm$ 0.004 χ^2 /NDF: 2131235.0/14

Left: 19.750 $\pm$ 0.003 χ^2 /NDF: 4660388.5/31

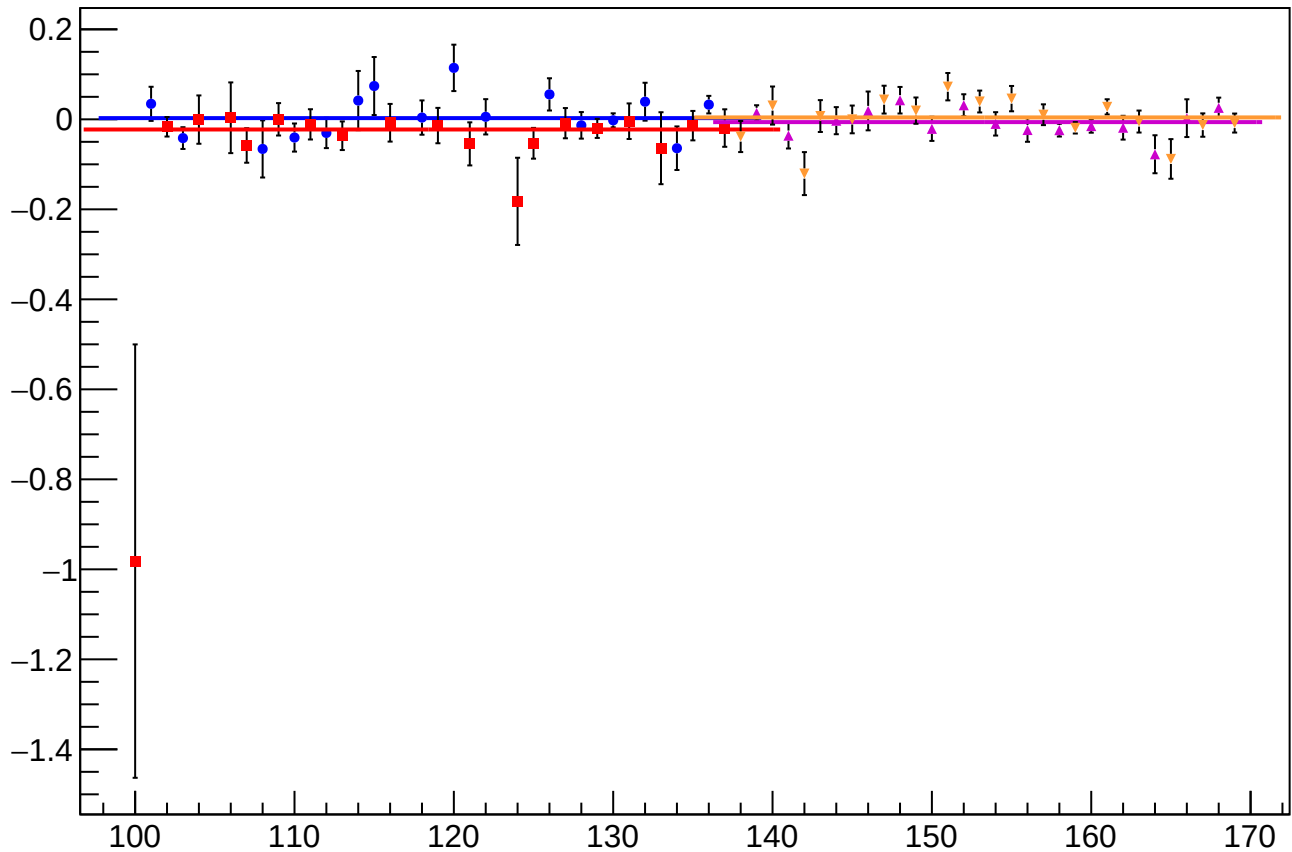
Right: 19.793 $\pm$ 0.004 χ^2 /NDF: 2737206.7/34

In: 19.200 $\pm$ 0.003 χ^2 /NDF: 3525823.6/30

Out: 20.364 $\pm$ 0.003 χ^2 /NDF: 3813981.7/35

All: 19.766 $\pm$ 0.002 χ^2 /NDF: 7397668.6/66

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.003 ± 0.008 $\chi^2/\text{NDF}: 22.0/15$

Left Out: 0.004 ± 0.006 $\chi^2/\text{NDF}: 30.7/16$

Right Out: -0.023 ± 0.008 $\chi^2/\text{NDF}: 10.8/18$

Left In: -0.006 ± 0.006 $\chi^2/\text{NDF}: 15.8/14$

Left: -0.001 ± 0.004 $\chi^2/\text{NDF}: 47.9/31$

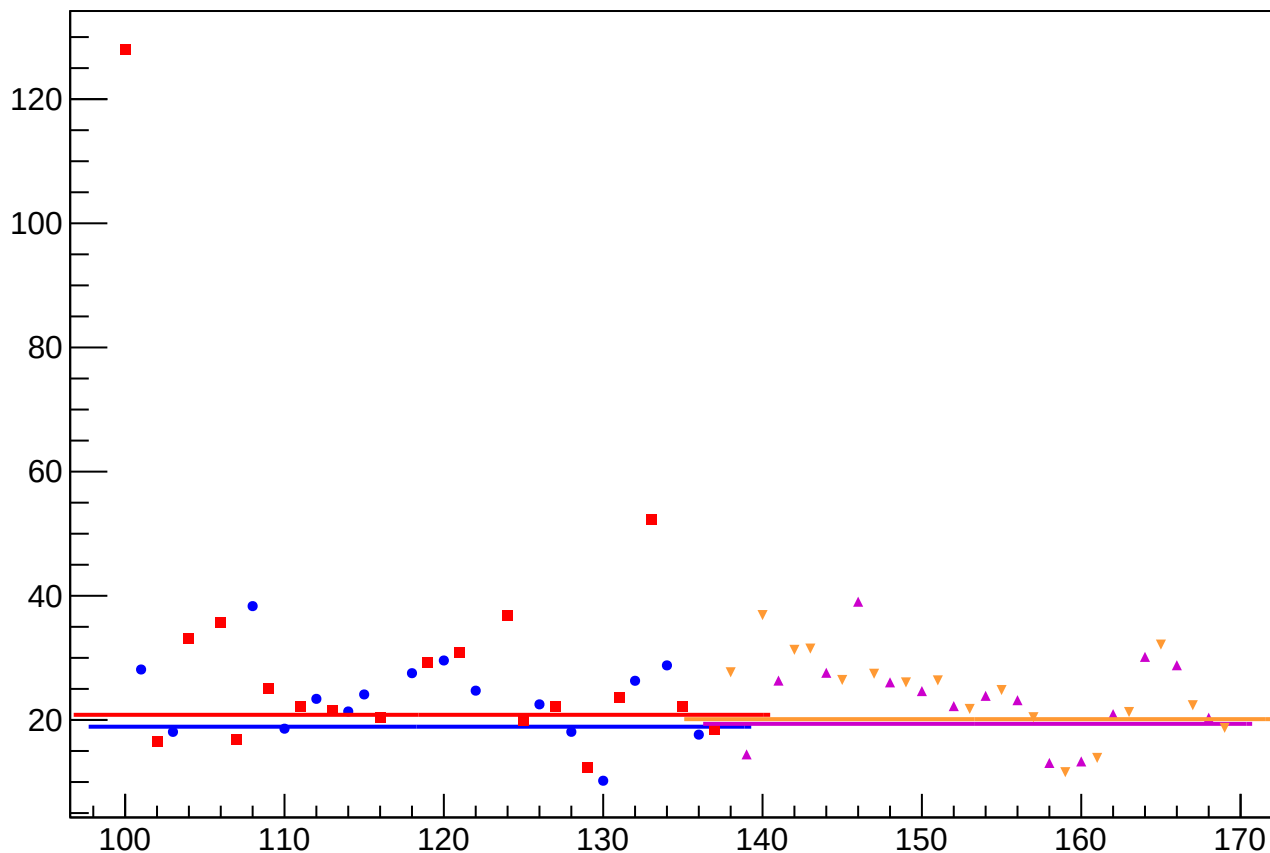
Right: -0.009 ± 0.006 $\chi^2/\text{NDF}: 37.5/34$

In: -0.003 ± 0.005 $\chi^2/\text{NDF}: 38.5/30$

Out: -0.005 ± 0.005 $\chi^2/\text{NDF}: 48.1/35$

All: -0.004 ± 0.003 $\chi^2/\text{NDF}: 86.7/66$

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 18.912 $\pm$ 0.006 χ^2 /NDF: 1390233.4/15

Left Out: 20.129 $\pm$ 0.004 χ^2 /NDF: 2513405.0/16

Right Out: 20.827 $\pm$ 0.006 χ^2 /NDF: 1291537.3/18

Left In: 19.372 $\pm$ 0.004 χ^2 /NDF: 2131235.0/14

Left: 19.750 $\pm$ 0.003 χ^2 /NDF: 4660388.5/31

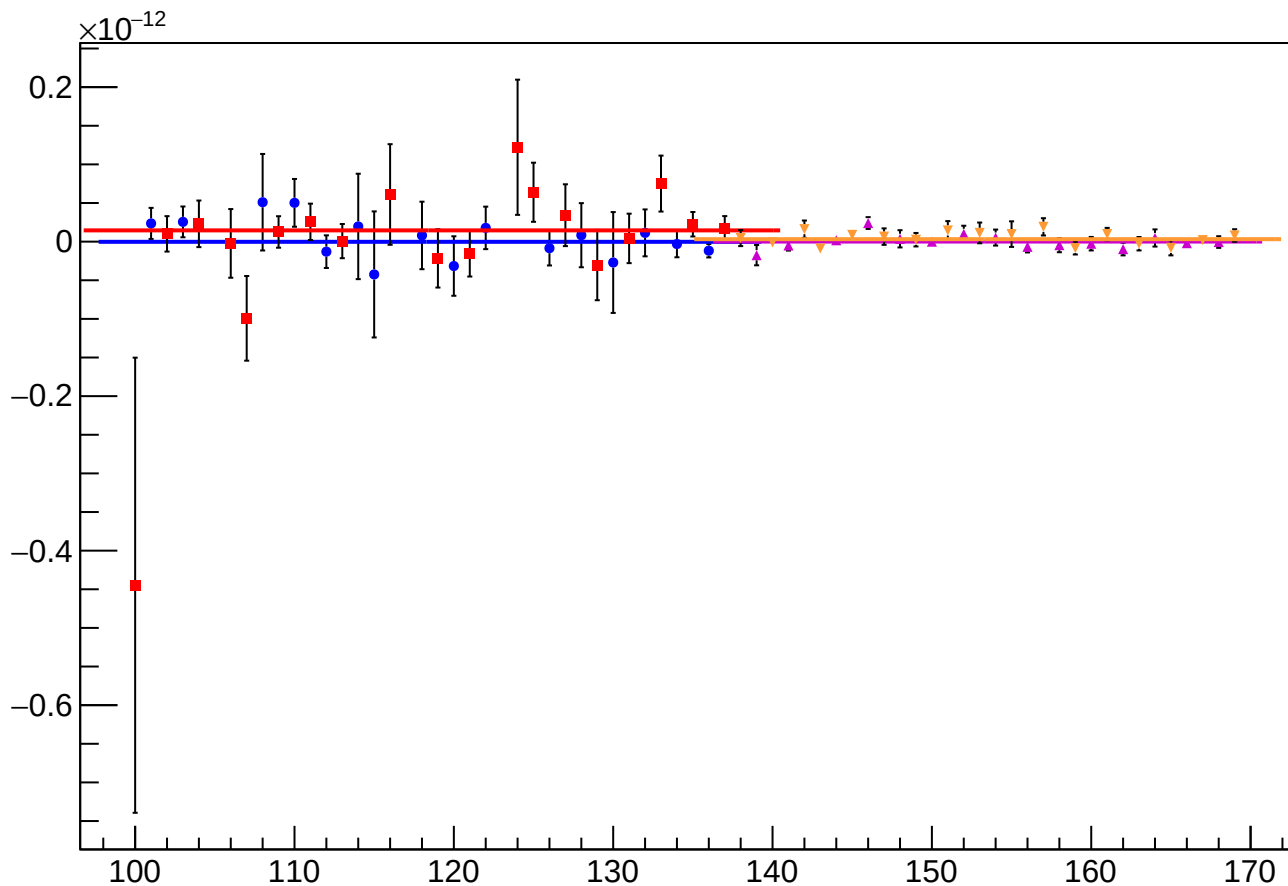
Right: 19.793 $\pm$ 0.004 χ^2 /NDF: 2737206.7/34

In: 19.200 $\pm$ 0.003 χ^2 /NDF: 3525823.6/30

Out: 20.364 $\pm$ 0.003 χ^2 /NDF: 3813981.7/35

All: 19.766 $\pm$ 0.002 χ^2 /NDF: 7397668.6/66

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 10.5/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 15.1/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 17.6/18

Left In: 0.000 ± 0.000 χ^2/NDF : 16.5/14

Left: 0.000 ± 0.000 χ^2/NDF : 32.7/31

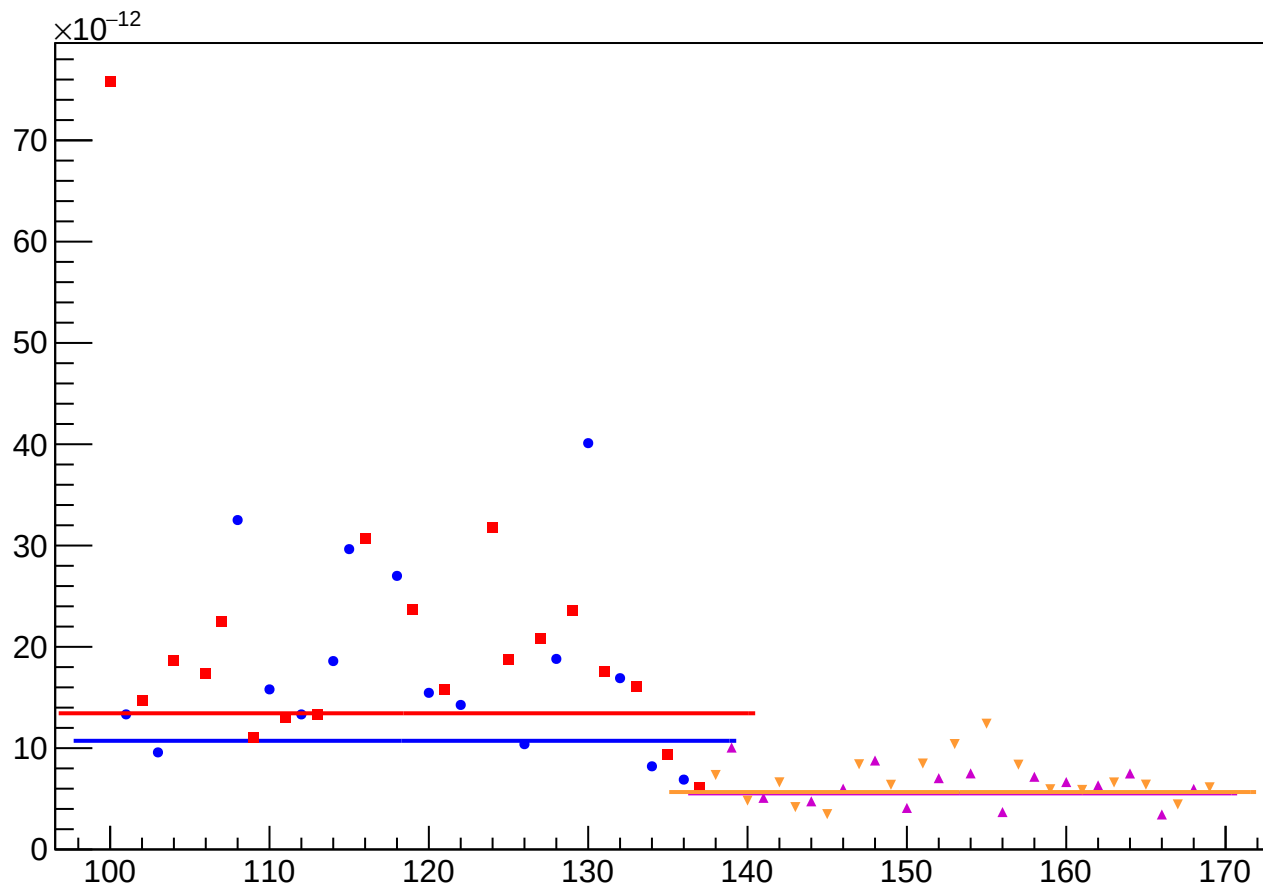
Right: 0.000 ± 0.000 χ^2/NDF : 31.1/34

In: 0.000 ± 0.000 χ^2/NDF : 27.0/30

Out: 0.000 ± 0.000 χ^2/NDF : 35.5/35

All: 0.000 ± 0.000 χ^2/NDF : 64.7/66

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1836547.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1681453.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1402984.9/18

Left In: 0.000+/-0.000 χ^2/NDF : 1239735.9/14

Left: 0.000+/-0.000 χ^2/NDF : 2925646.5/31

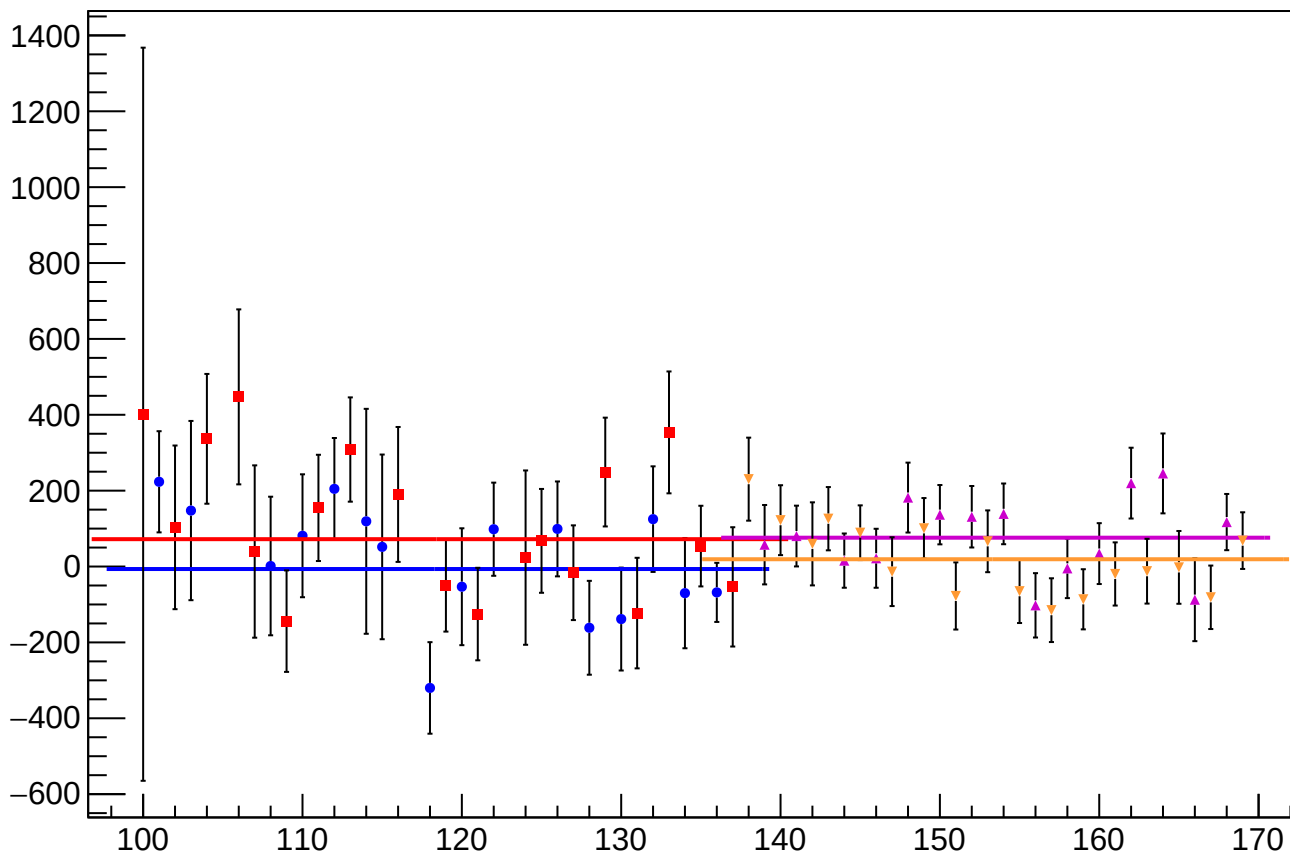
Right: 0.000+/-0.000 χ^2/NDF : 3438709.3/34

In: 0.000+/-0.000 χ^2/NDF : 4589969.2/30

Out: 0.000+/-0.000 χ^2/NDF : 5672927.7/35

All: 0.000+/-0.000 χ^2/NDF : 10271644.6/66

reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -6.559 ± 34.286 $\chi^2/\text{NDF}: 18.9/15$

Left Out: 19.219 ± 20.703 $\chi^2/\text{NDF}: 18.0/16$

Right Out: 72.124 ± 34.883 $\chi^2/\text{NDF}: 22.8/18$

Left In: 76.012 ± 21.690 $\chi^2/\text{NDF}: 17.5/14$

Left: 46.294 ± 14.976 $\chi^2/\text{NDF}: 39.1/31$

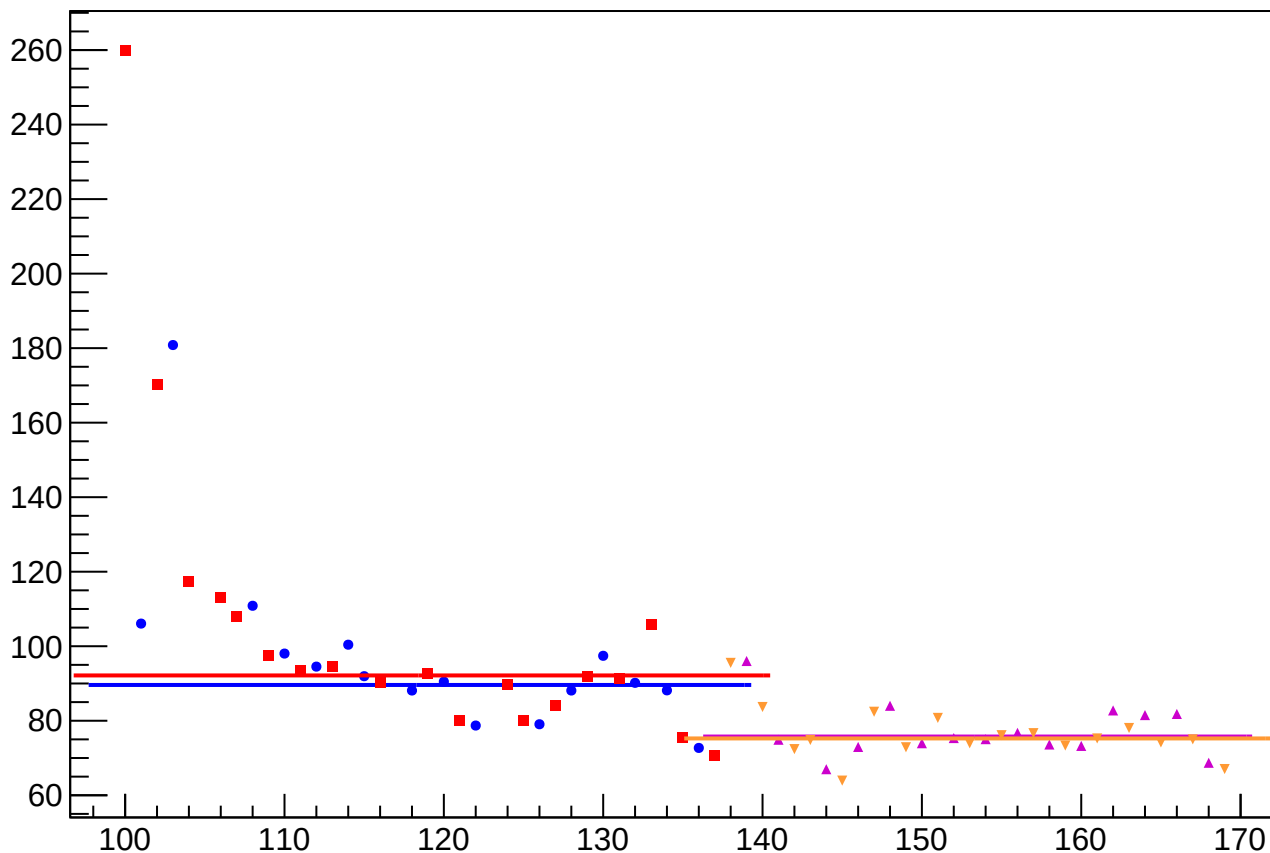
Right: 32.104 ± 24.452 $\chi^2/\text{NDF}: 44.3/34$

In: 52.413 ± 18.330 $\chi^2/\text{NDF}: 40.6/30$

Out: 33.000 ± 17.803 $\chi^2/\text{NDF}: 42.5/35$

All: 42.423 ± 12.771 $\chi^2/\text{NDF}: 83.6/66$

reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 89.604 $\pm$ 0.024 χ^2 /NDF: 498380.8/15

Left Out: 75.251 $\pm$ 0.015 χ^2 /NDF: 187281.4/16

Right Out: 92.161 $\pm$ 0.025 χ^2 /NDF: 542074.4/18

Left In: 75.763 $\pm$ 0.015 χ^2 /NDF: 170435.6/14

Left: 75.495 $\pm$ 0.011 χ^2 /NDF: 358299.0/31

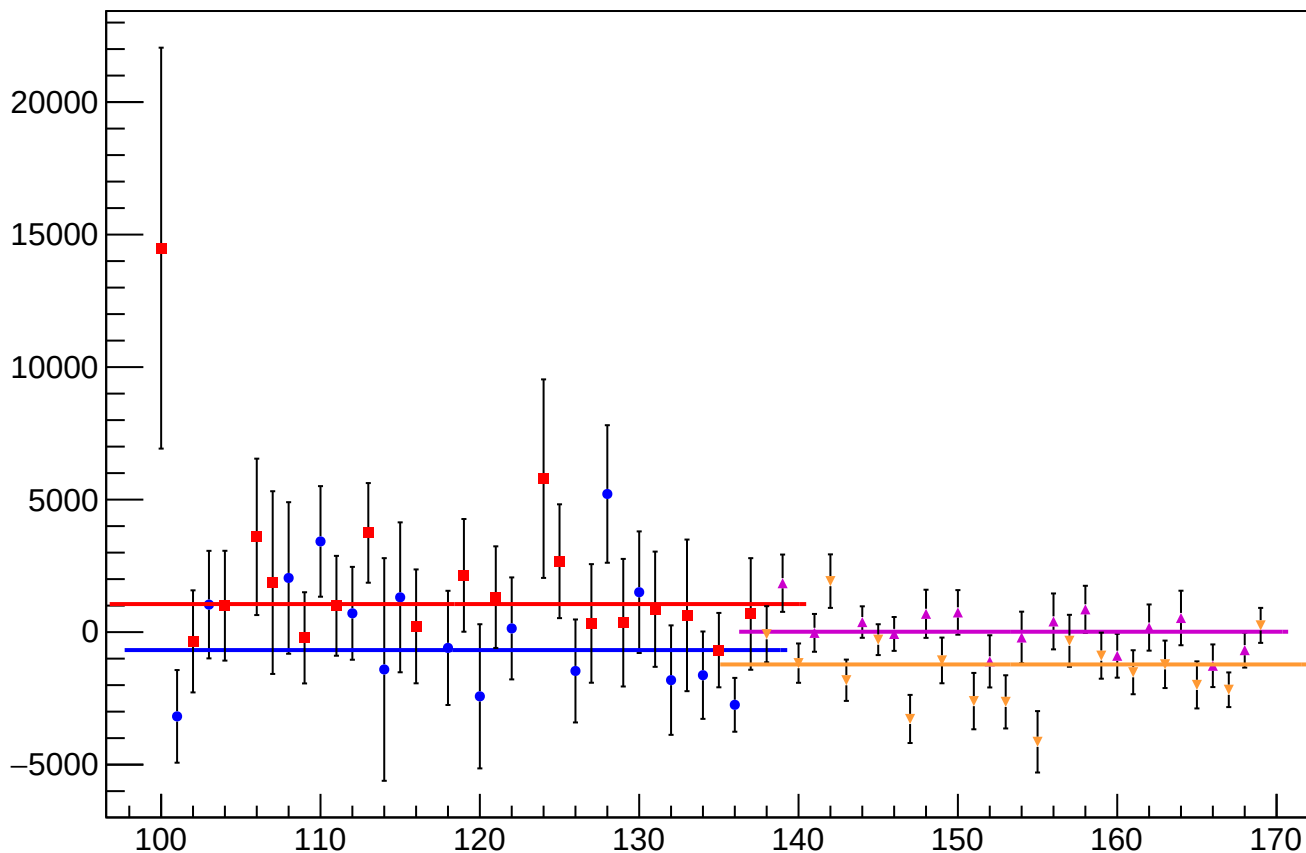
Right: 90.860 $\pm$ 0.017 χ^2 /NDF: 1045922.9/34

In: 79.719 $\pm$ 0.013 χ^2 /NDF: 901589.3/30

Out: 79.656 $\pm$ 0.013 χ^2 /NDF: 1076912.2/35

All: 79.686 $\pm$ 0.009 χ^2 /NDF: 1978513.5/66

asym_sam_2468_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -677.381+/-486.480 χ^2/NDF : 20.3/15

Left Out: -1219.563+/-202.298 χ^2/NDF :38.2/16

Right Out: 1058.761+/-496.350 χ^2/NDF : 11.5/18

Left In: 14.503+/-210.573 χ^2/NDF :12.1/14

Left: -627.253+/-145.884 χ^2/NDF : 68.1/31

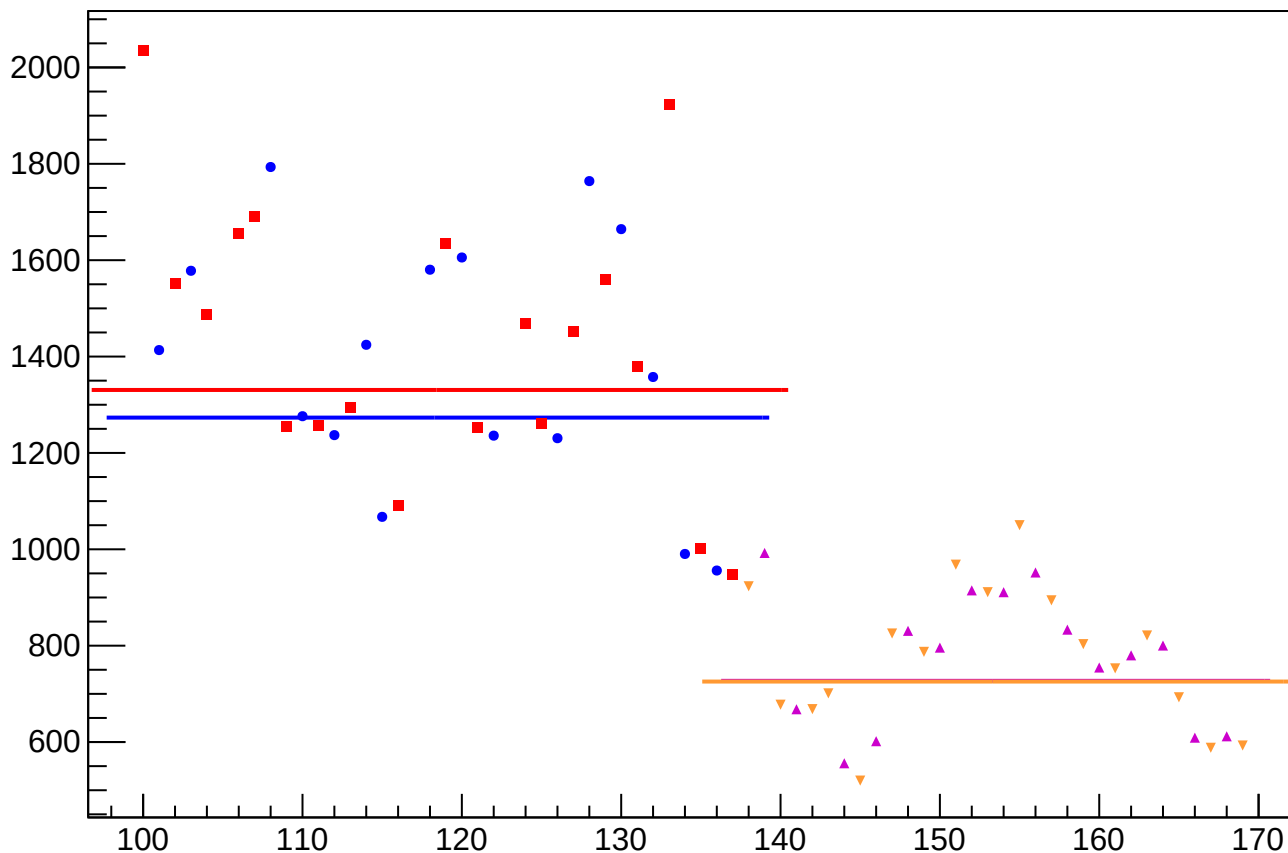
Right: 173.256+/-347.430 χ^2/NDF : 38.0/34

In: -94.673+/-193.246 χ^2/NDF :34.1/30

Out: -895.014+/-187.336 χ^2/NDF :67.7/35

All: -507.269+/-134.507 χ^2/NDF : 110.6/66

asym_sam_2468_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 1273.324+/-0.344 χ^2/NDF : 597520.6/15

Left Out: 725.546+/-0.143 χ^2/NDF : 971765.3/16

Right Out: 1330.683+/-0.351 χ^2/NDF : 470703.7/18

Left In: 727.017+/-0.149 χ^2/NDF : 803767.0/14

Left: 726.252+/-0.103 χ^2/NDF : 1775583.1/31

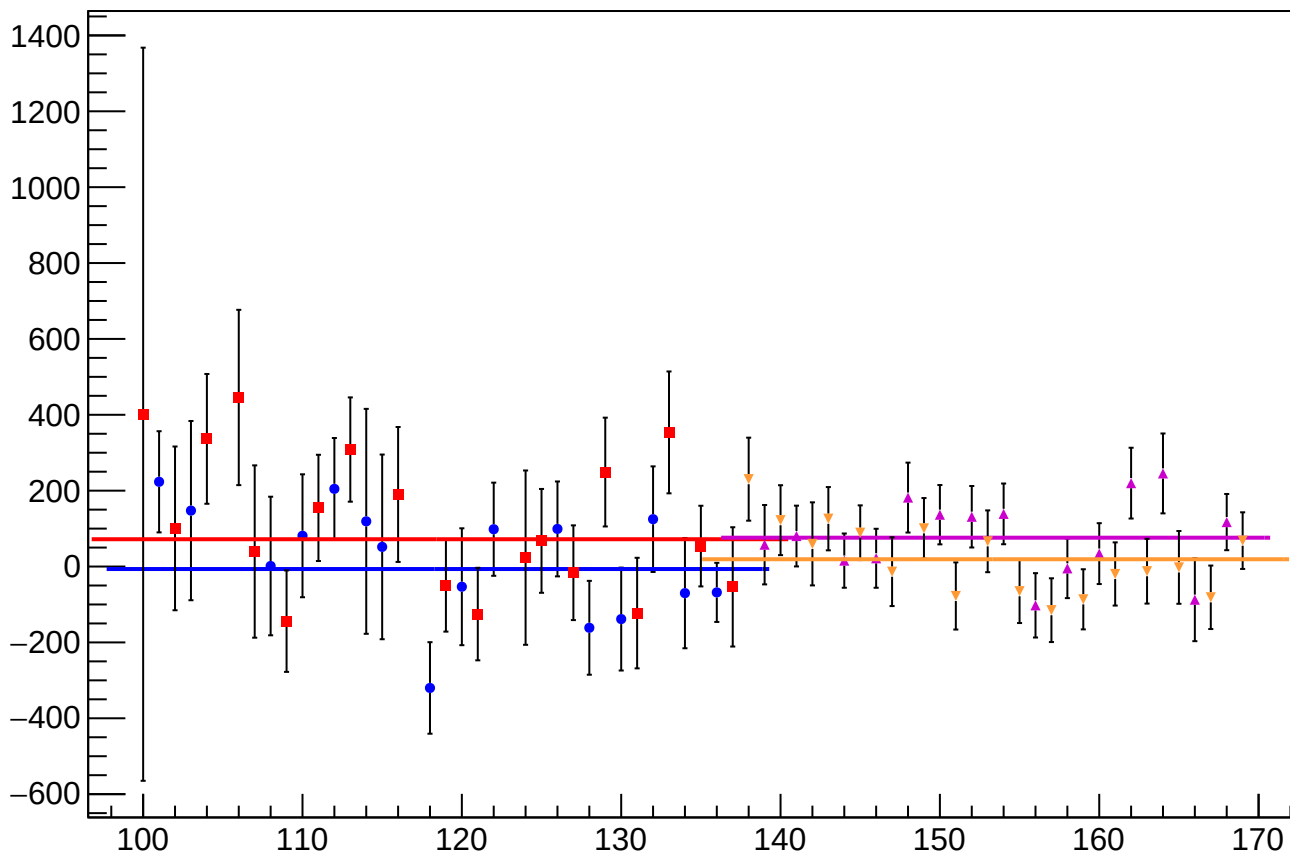
Right: 1301.428+/-0.246 χ^2/NDF : 1081847.0/34

In: 813.222+/-0.137 χ^2/NDF : 3525469.7/30

Out: 811.748+/-0.132 χ^2/NDF : 3991765.4/35

All: 812.462+/-0.095 χ^2/NDF : 7517295.0/66

cor_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -6.568 ± 34.286 χ^2/NDF : 18.9/15

Left Out: 19.223 ± 20.703 χ^2/NDF : 18.0/16

Right Out: 71.981 ± 34.885 χ^2/NDF : 22.8/18

Left In: 76.012 ± 21.690 χ^2/NDF : 17.5/14

Left: 46.296 ± 14.976 χ^2/NDF : 39.1/31

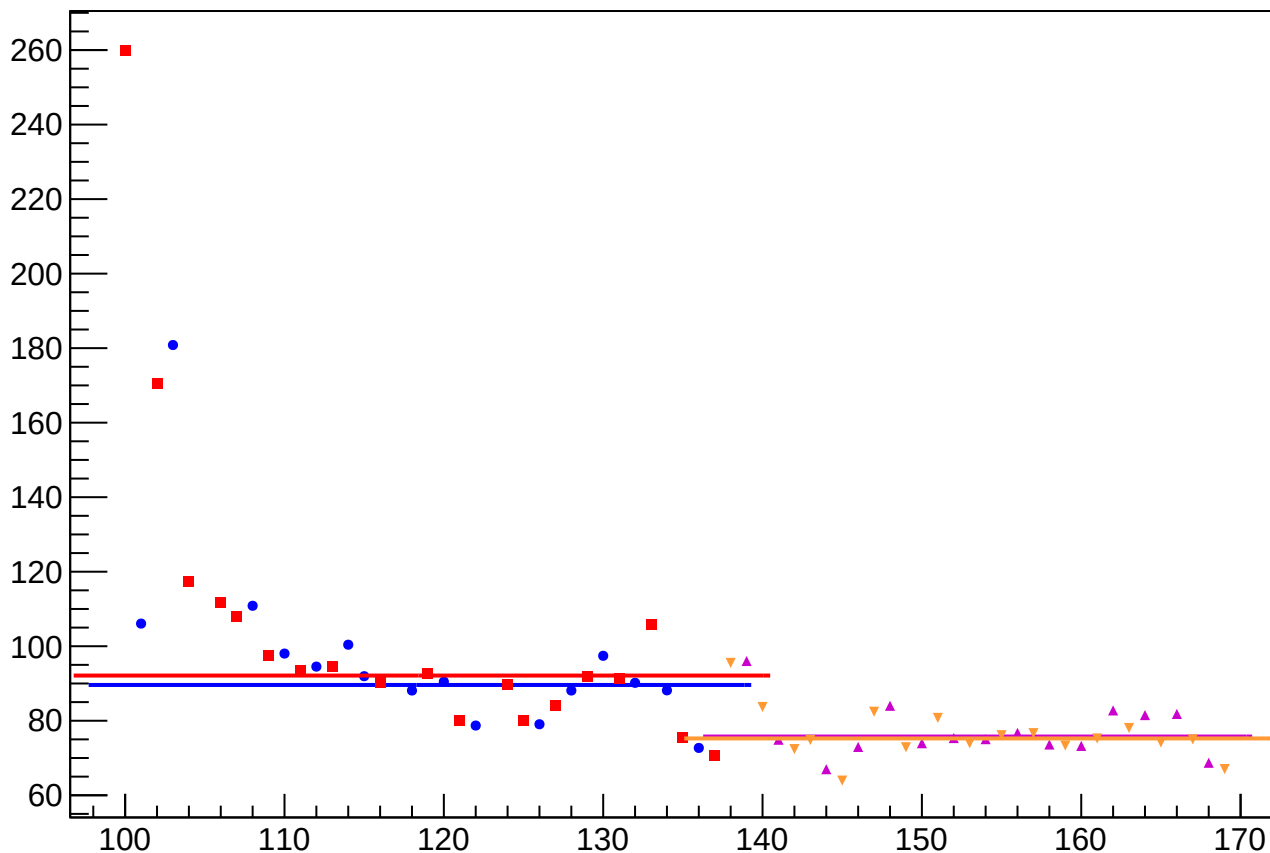
Right: 32.026 ± 24.453 χ^2/NDF : 44.3/34

In: 52.410 ± 18.330 χ^2/NDF : 40.6/30

Out: 32.964 ± 17.804 χ^2/NDF : 42.5/35

All: 42.404 ± 12.771 χ^2/NDF : 83.6/66

cor_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 89.604 $\pm$ 0.024 χ^2 /NDF: 498384.4/15

Left Out: 75.251 $\pm$ 0.015 χ^2 /NDF:187281.4/16

Right Out: 92.129 $\pm$ 0.025 χ^2 /NDF: 540308.7/18

Left In: 75.763 $\pm$ 0.015 χ^2 /NDF:170435.6/14

Left: 75.495 $\pm$ 0.011 χ^2 /NDF: 358299.0/31

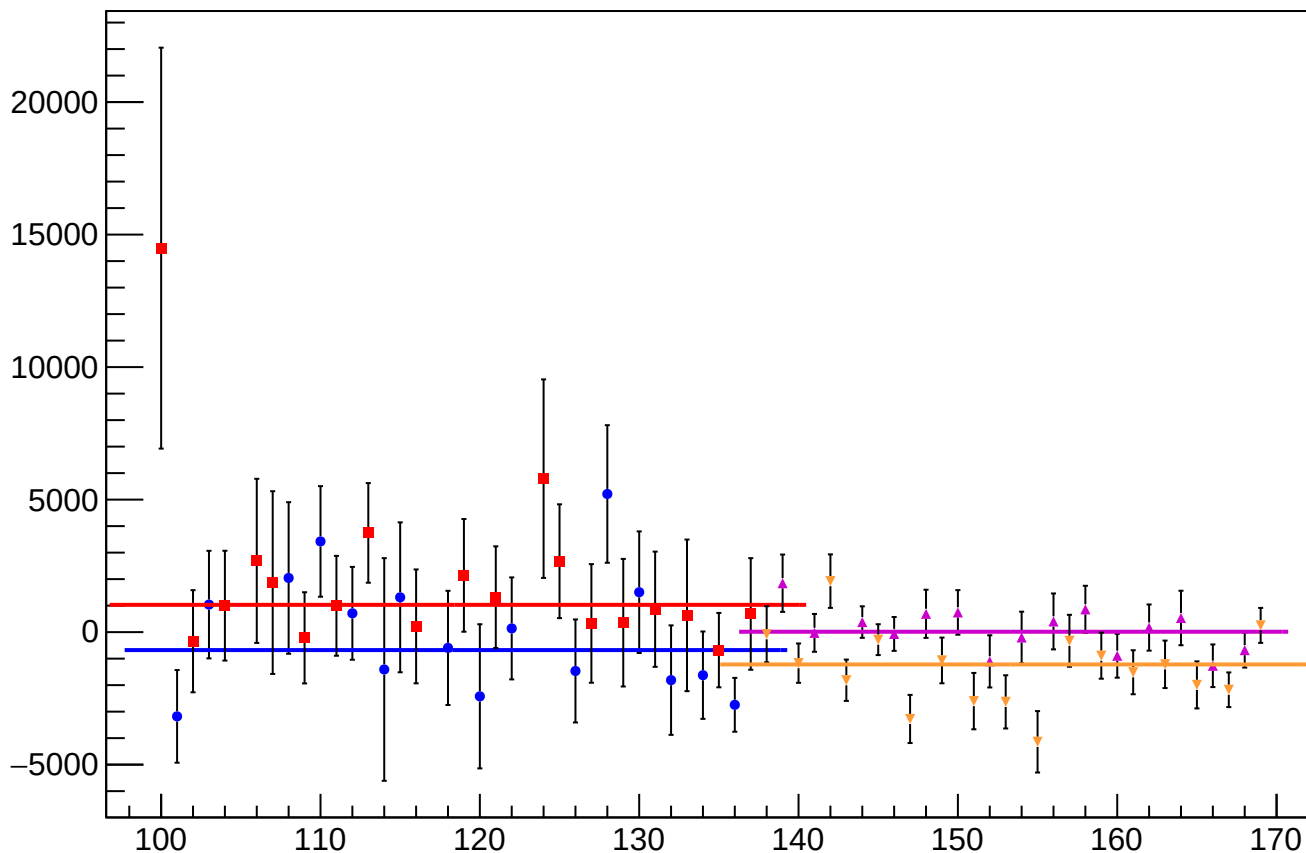
Right: 90.845 $\pm$ 0.017 χ^2 /NDF: 1044025.4/34

In: 79.719 $\pm$ 0.013 χ^2 /NDF:901592.9/30

Out: 79.647 $\pm$ 0.013 χ^2 /NDF:1073812.4/35

All: 79.682 $\pm$ 0.009 χ^2 /NDF: 1975420.8/66

asym_sam_2468_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -677.345+/-486.482 χ^2/NDF : 20.3/15

Left Out: -1219.556+/-202.298 χ^2/NDF :38.2/16

Right Out: 1029.395+/-497.018 χ^2/NDF : 11.0/18

Left In: 14.506+/-210.573 χ^2/NDF :12.1/14

Left: -627.248+/-145.884 χ^2/NDF : 68.1/31

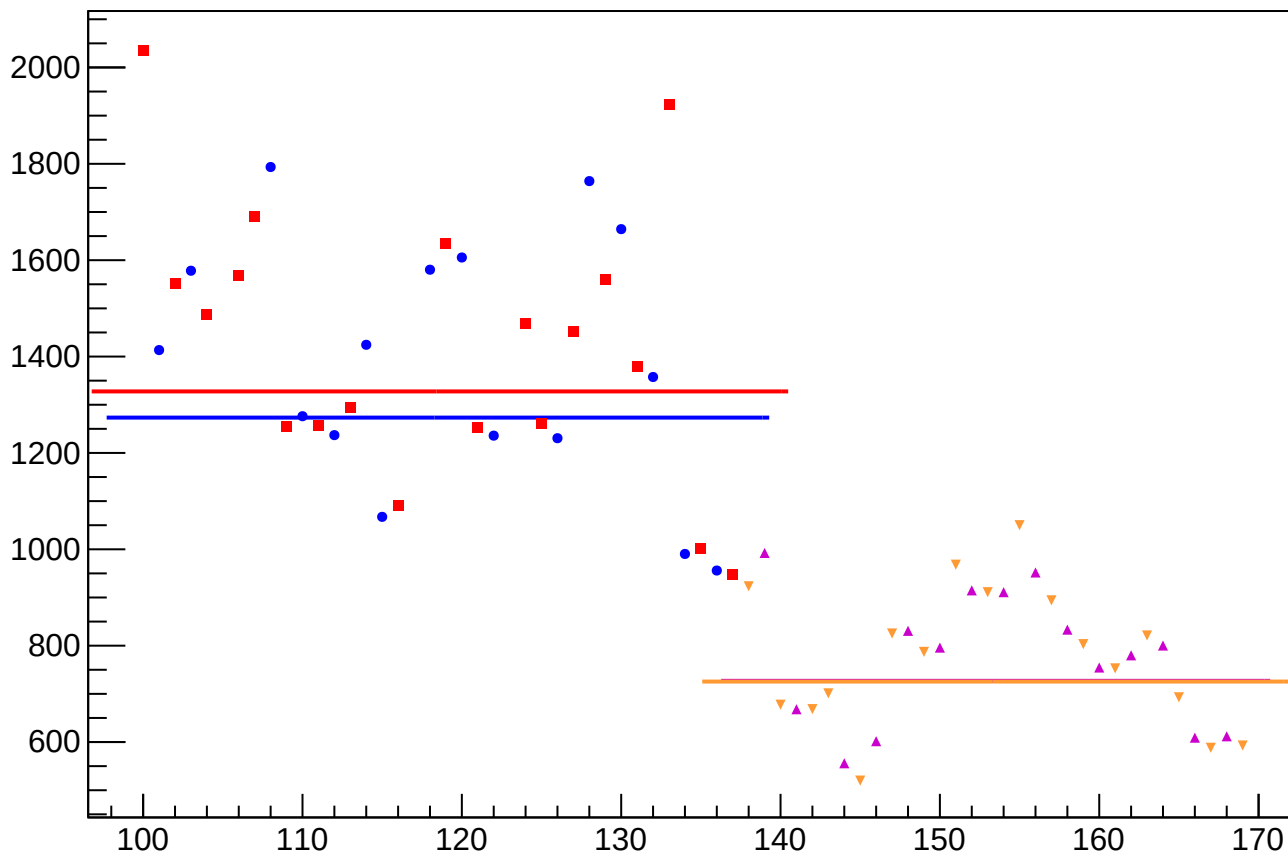
Right: 157.743+/-347.660 χ^2/NDF : 37.3/34

In: -94.664+/-193.246 χ^2/NDF :34.1/30

Out: -899.928+/-187.372 χ^2/NDF :66.7/35

All: -509.722+/-134.521 χ^2/NDF : 109.7/66

asym_sam_2468_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 1273.327 $\pm$ 0.344 χ^2 /NDF: 597547.8/15

Left Out: 725.546 $\pm$ 0.143 χ^2 /NDF: 971768.1/16

Right Out: 1327.661 $\pm$ 0.351 χ^2 /NDF: 458481.2/18

Left In: 727.017 $\pm$ 0.149 χ^2 /NDF: 803764.4/14

Left: 726.252 $\pm$ 0.103 χ^2 /NDF: 1775583.3/31

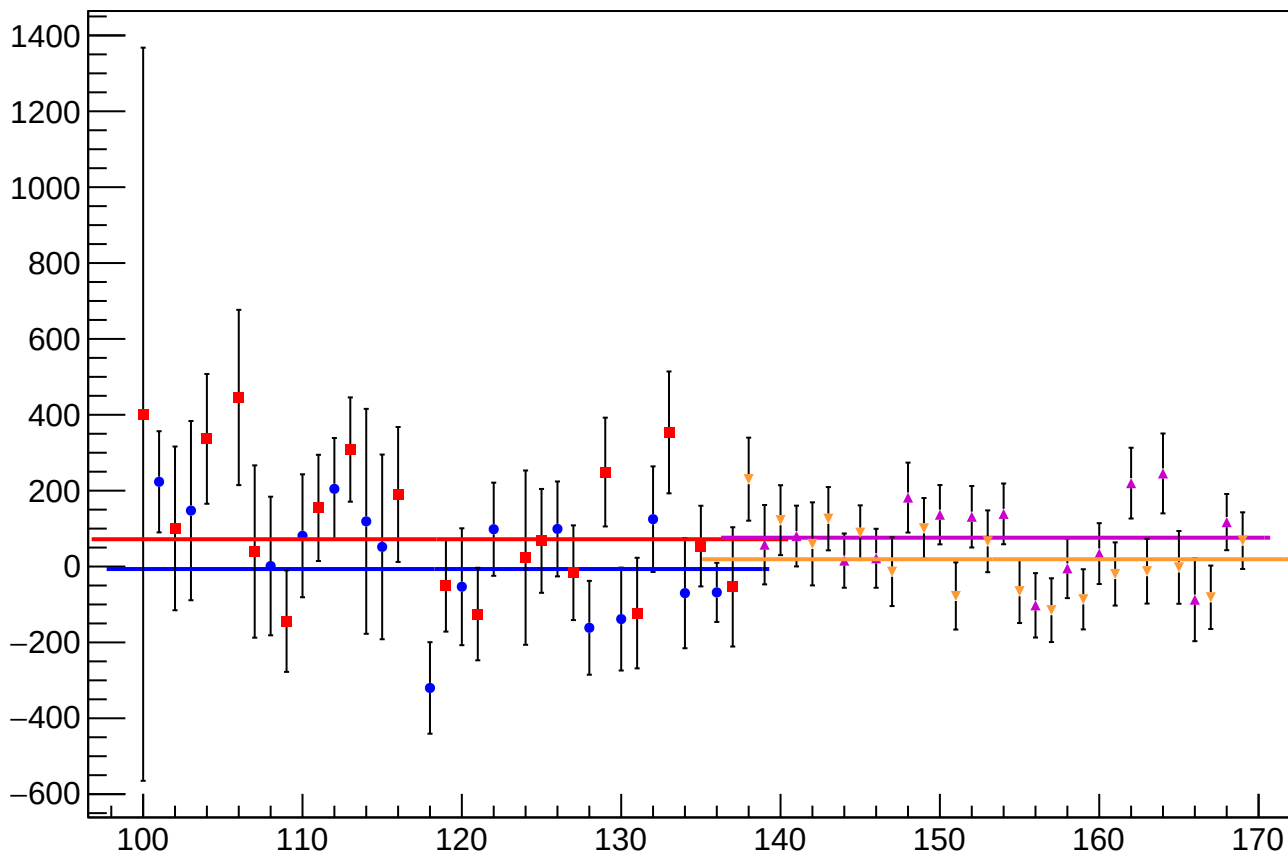
Right: 1299.912 $\pm$ 0.246 χ^2 /NDF: 1068235.5/34

In: 813.222 $\pm$ 0.137 χ^2 /NDF: 3525505.2/30

Out: 811.120 $\pm$ 0.132 χ^2 /NDF: 3948333.5/35

All: 812.138 $\pm$ 0.095 χ^2 /NDF: 7473960.7/66

eigen_cor_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: -6.568 ± 34.286 $\chi^2/\text{NDF}: 18.9/15$

Left Out: 19.223 ± 20.703 $\chi^2/\text{NDF}: 18.0/16$

Right Out: 71.981 ± 34.885 $\chi^2/\text{NDF}: 22.8/18$

Left In: 76.012 ± 21.690 $\chi^2/\text{NDF}: 17.5/14$

Left: 46.296 ± 14.976 $\chi^2/\text{NDF}: 39.1/31$

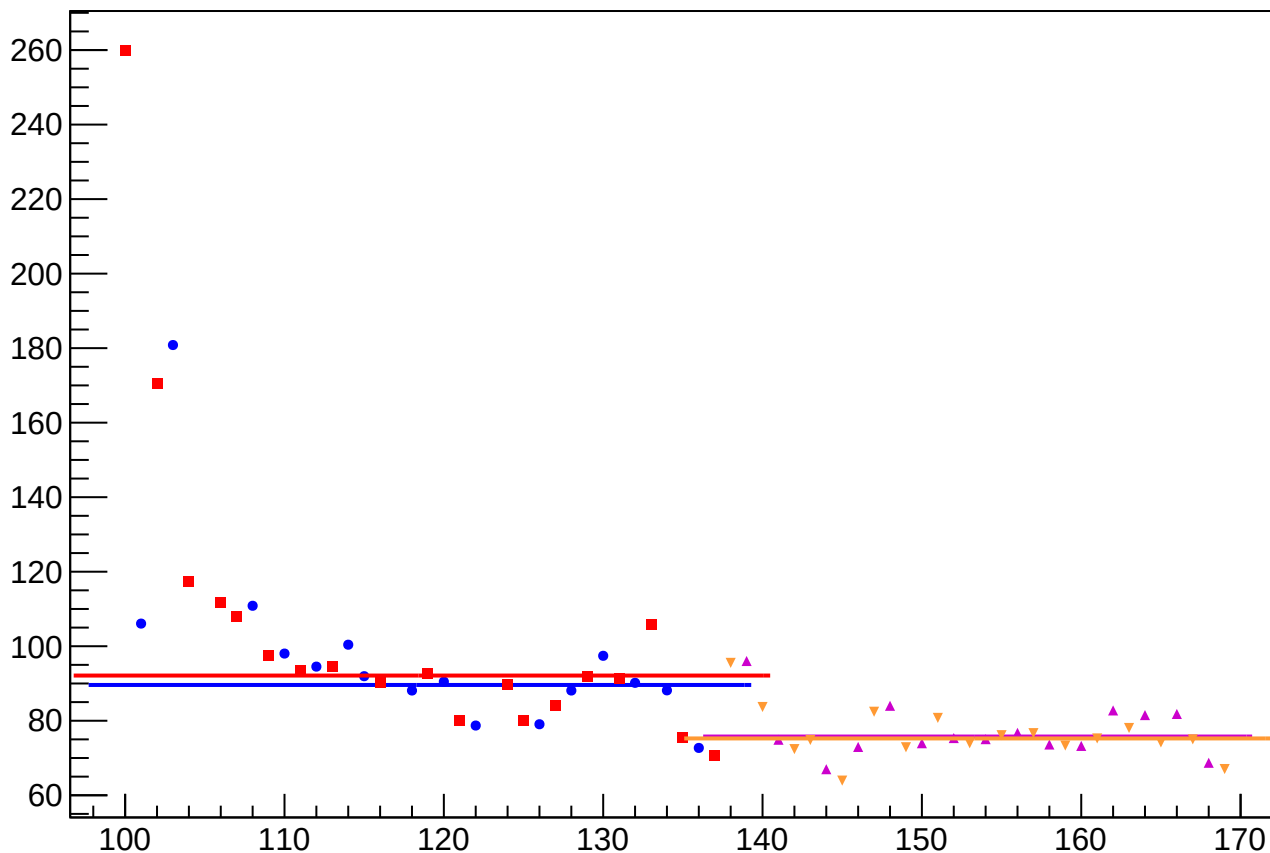
Right: 32.026 ± 24.453 $\chi^2/\text{NDF}: 44.3/34$

In: 52.410 ± 18.330 $\chi^2/\text{NDF}: 40.6/30$

Out: 32.964 ± 17.804 $\chi^2/\text{NDF}: 42.5/35$

All: 42.404 ± 12.771 $\chi^2/\text{NDF}: 83.6/66$

eigen_cor_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 89.604 $\pm$ 0.024 χ^2 /NDF: 498384.4/15

Left Out: 75.251 $\pm$ 0.015 χ^2 /NDF: 187281.4/16

Right Out: 92.129 $\pm$ 0.025 χ^2 /NDF: 540308.7/18

Left In: 75.763 $\pm$ 0.015 χ^2 /NDF: 170435.6/14

Left: 75.495 $\pm$ 0.011 χ^2 /NDF: 358299.0/31

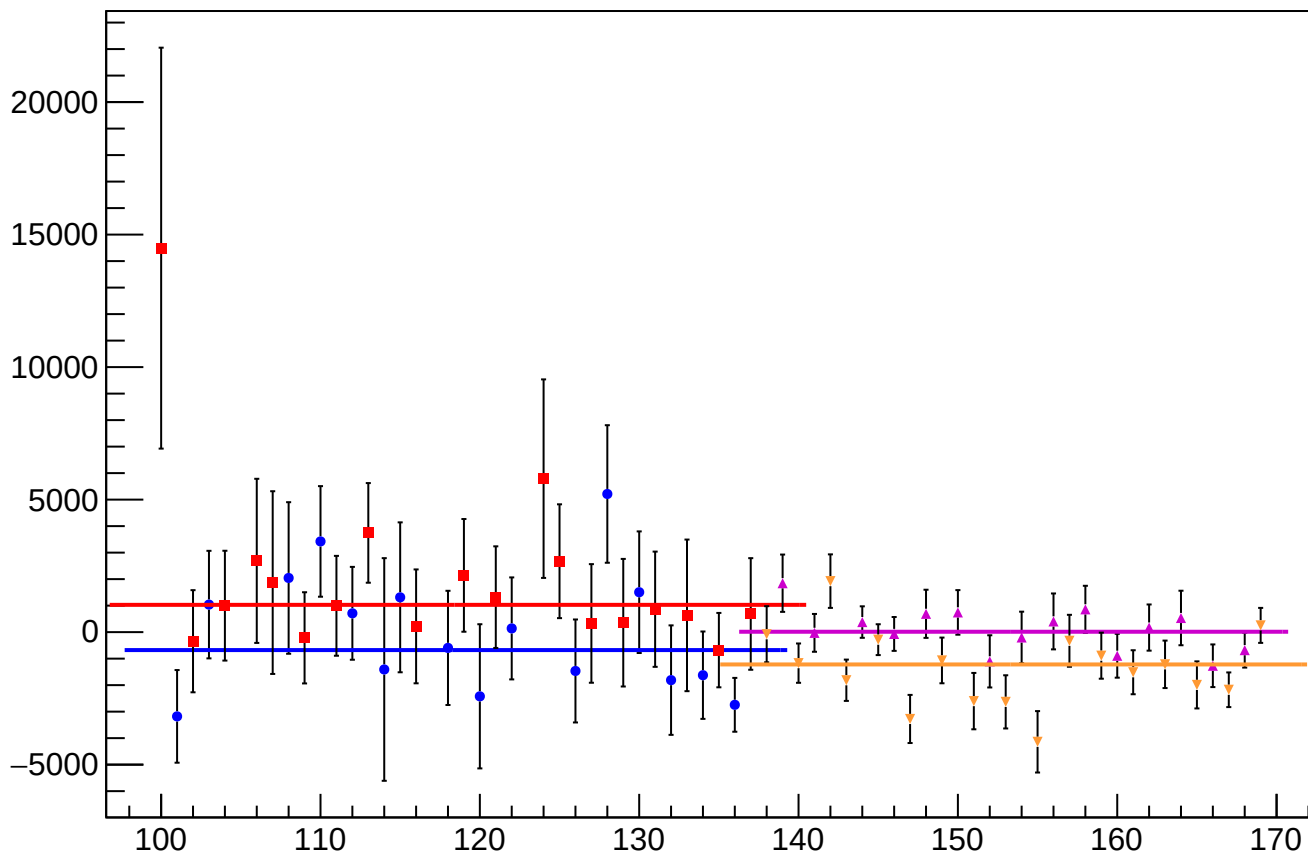
Right: 90.845 $\pm$ 0.017 χ^2 /NDF: 1044025.4/34

In: 79.719 $\pm$ 0.013 χ^2 /NDF: 901592.9/30

Out: 79.647 $\pm$ 0.013 χ^2 /NDF: 1073812.4/35

All: 79.682 $\pm$ 0.009 χ^2 /NDF: 1975420.8/66

asym_sam_2468_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -677.345+/-486.482 χ^2/NDF : 20.3/15

Left Out: -1219.556+/-202.298 χ^2/NDF :38.2/16

Right Out: 1029.395+/-497.018 χ^2/NDF : 11.0/18

Left In: 14.506+/-210.573 χ^2/NDF :12.1/14

Left: -627.248+/-145.884 χ^2/NDF : 68.1/31

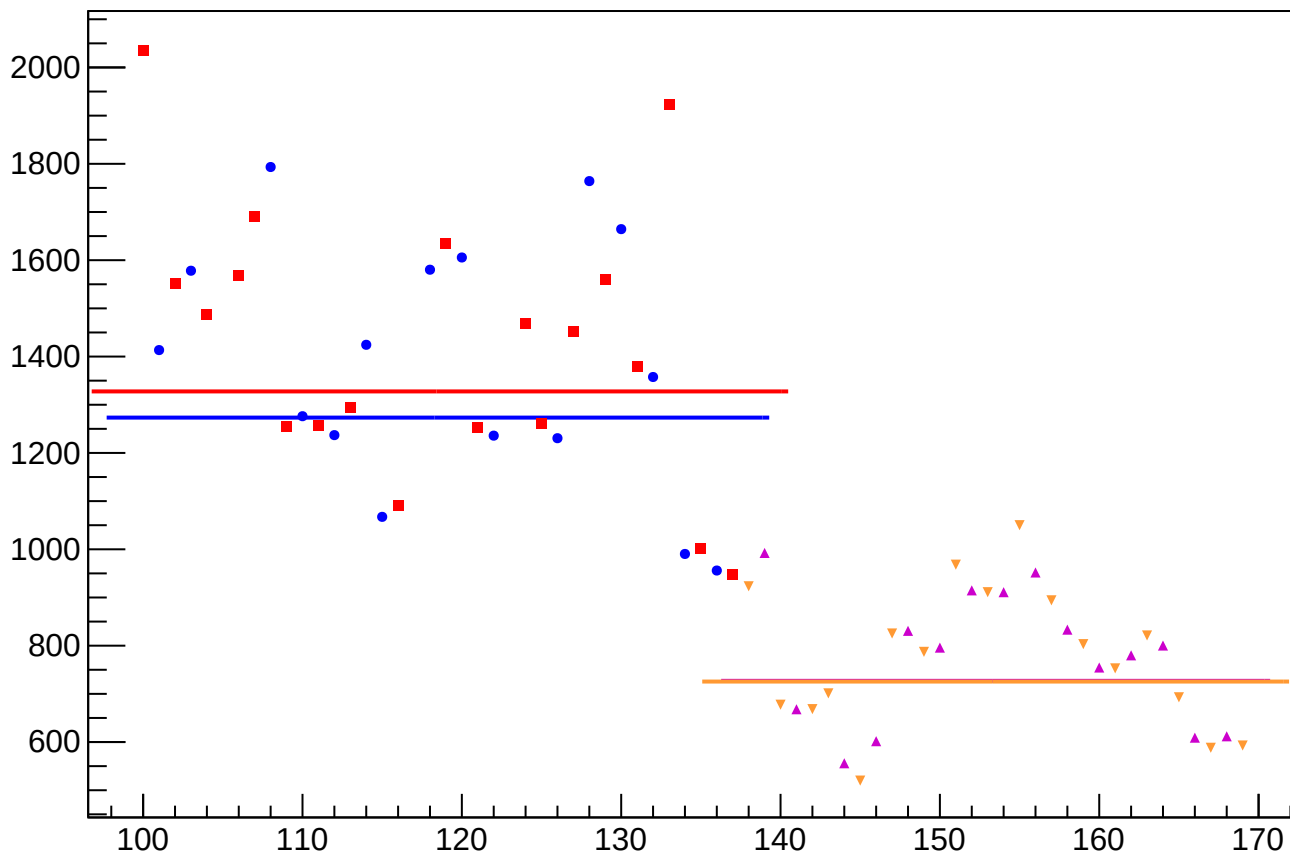
Right: 157.743+/-347.660 χ^2/NDF : 37.3/34

In: -94.664+/-193.246 χ^2/NDF :34.1/30

Out: -899.928+/-187.372 χ^2/NDF :66.7/35

All: -509.722+/-134.521 χ^2/NDF : 109.7/66

asym_sam_2468_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 1273.327 ± 0.344 χ^2/NDF : 597547.8/15

Left Out: 725.546 ± 0.143 χ^2/NDF : 971768.1/16

Right Out: 1327.661 ± 0.351 χ^2/NDF : 458481.2/18

Left In: 727.017 ± 0.149 χ^2/NDF : 803764.4/14

Left: 726.252 ± 0.103 χ^2/NDF : 1775583.3/31

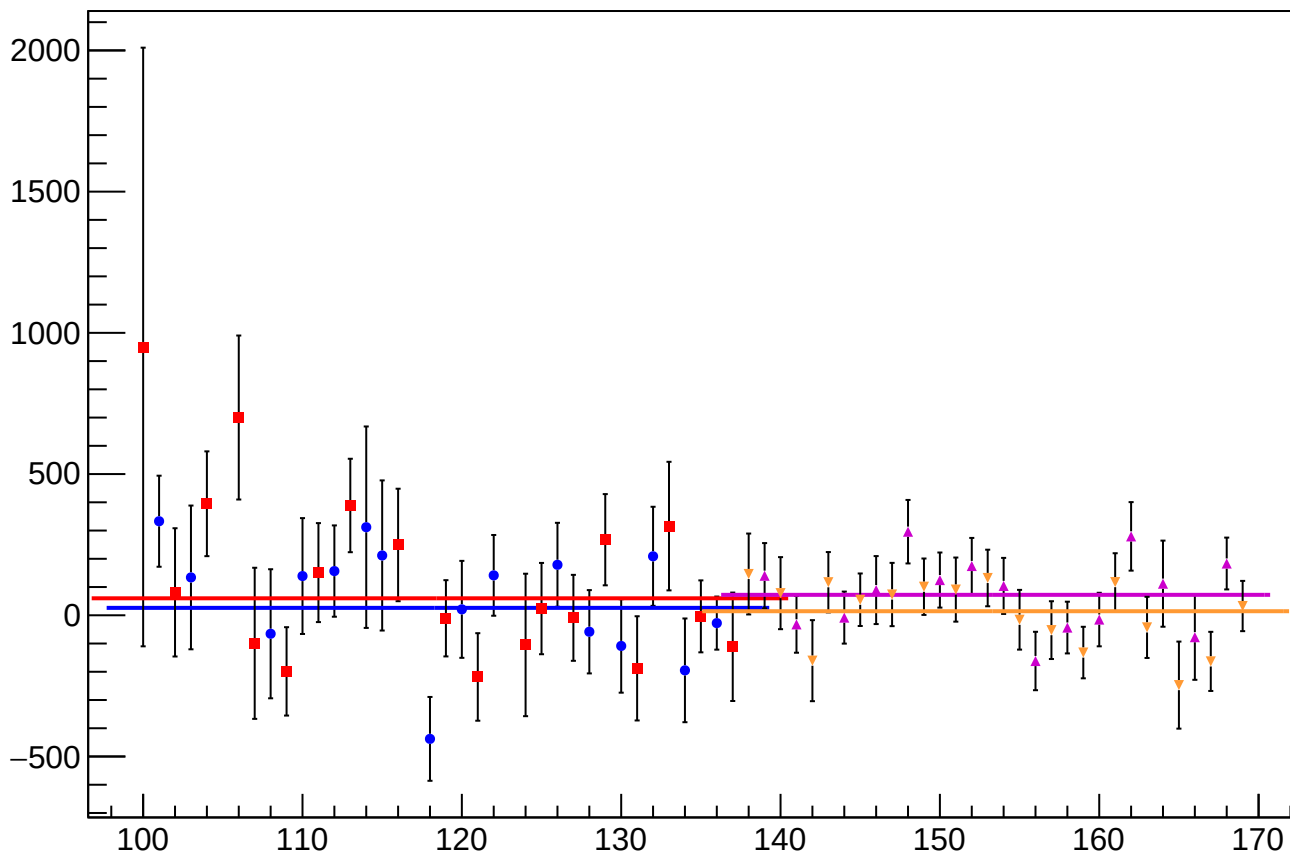
Right: 1299.912 ± 0.246 χ^2/NDF : 1068235.5/34

In: 813.222 ± 0.137 χ^2/NDF : 3525505.2/30

Out: 811.120 ± 0.132 χ^2/NDF : 3948333.5/35

All: 812.138 ± 0.095 χ^2/NDF : 7473960.7/66

dit_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 26.251 $\pm$ 41.220 χ^2 /NDF: 21.4/15

Left Out: 14.369 $\pm$ 26.126 χ^2 /NDF:16.8/16

Right Out: 60.119 $\pm$ 41.528 χ^2 /NDF: 27.0/18

Left In: 72.384 $\pm$ 27.259 χ^2 /NDF:20.6/14

Left: 42.145 $\pm$ 18.862 χ^2 /NDF: 39.7/31

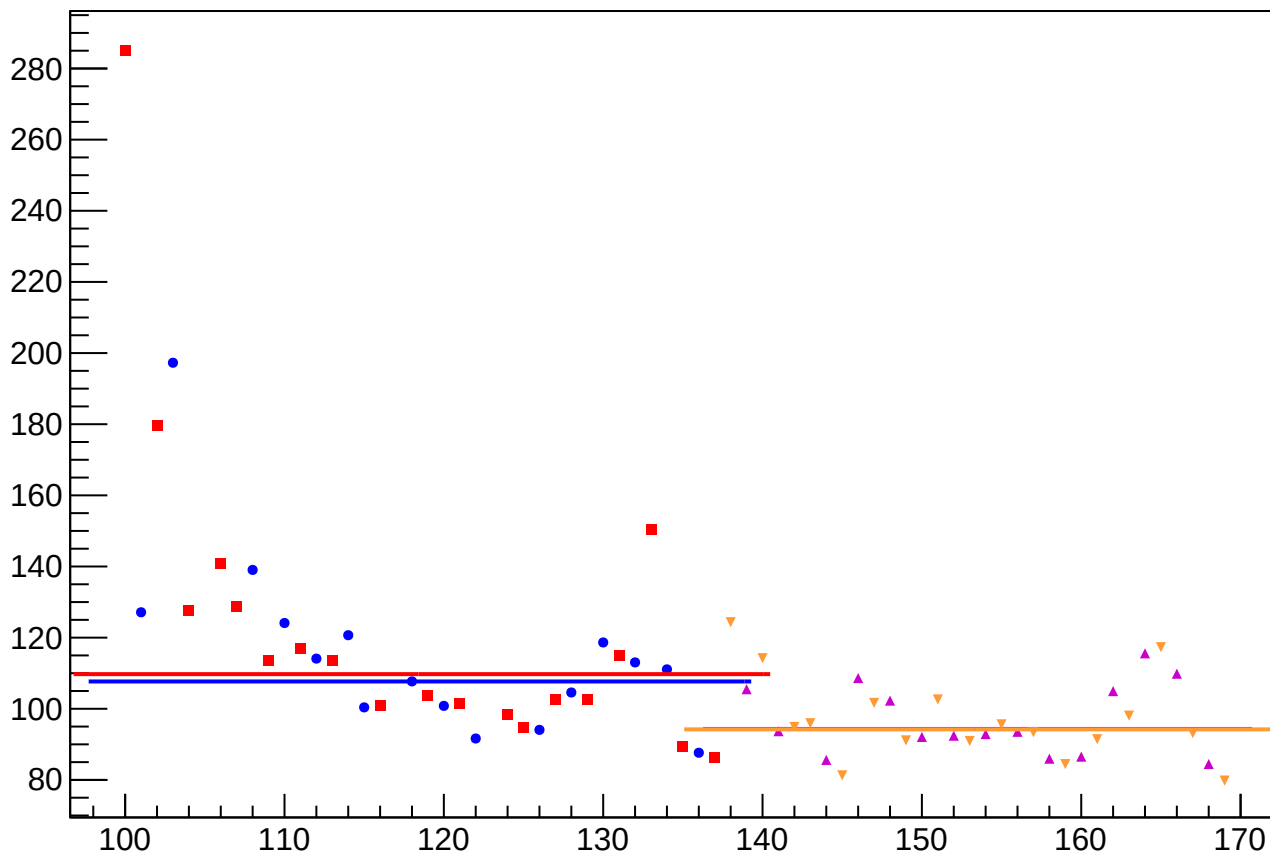
Right: 43.059 $\pm$ 29.255 χ^2 /NDF: 48.7/34

In: 58.347 $\pm$ 22.737 χ^2 /NDF:42.9/30

Out: 27.342 $\pm$ 22.114 χ^2 /NDF:44.6/35

All: 42.414 $\pm$ 15.853 χ^2 /NDF: 88.4/66

dit_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 107.680 $\pm$ 0.029 χ^2 /NDF: 483125.6/15

Left Out: 94.209 $\pm$ 0.018 χ^2 /NDF:325565.3/16

Right Out: 109.739 $\pm$ 0.029 χ^2 /NDF: 491787.3/18

Left In: 94.332 $\pm$ 0.019 χ^2 /NDF:205943.2/14

Left: 94.268 $\pm$ 0.013 χ^2 /NDF: 531529.7/31

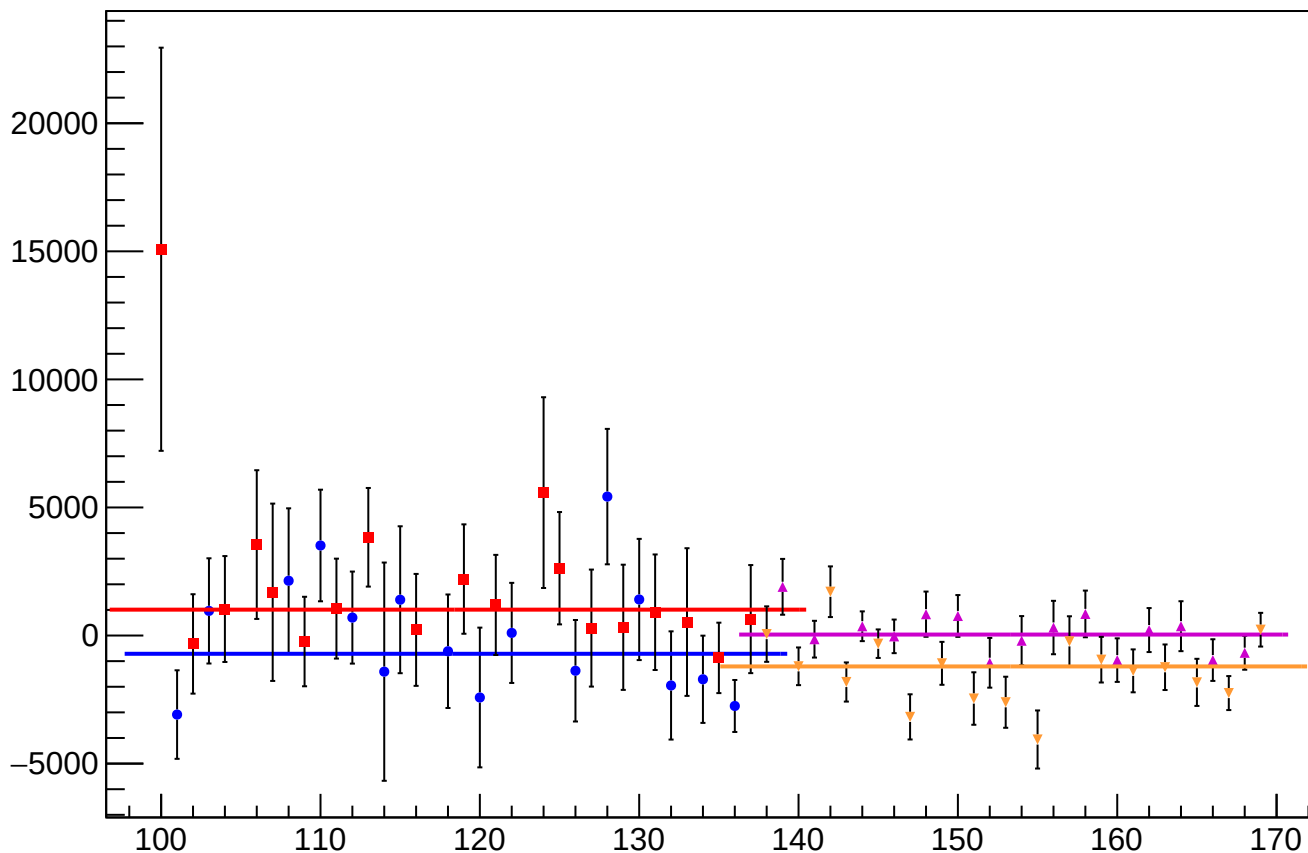
Right: 108.702 $\pm$ 0.021 χ^2 /NDF: 977390.9/34

In: 98.393 $\pm$ 0.016 χ^2 /NDF:834975.2/30

Out: 98.613 $\pm$ 0.016 χ^2 /NDF:1017742.3/35

All: 98.506 $\pm$ 0.011 χ^2 /NDF: 1852813.3/66

asym_sam_2468_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -712.887 ± 493.253 χ^2/NDF : 20.1/15

Left Out: -1206.742 ± 200.537 χ^2/NDF : 36.8/16

Right Out: 1010.557 ± 501.374 χ^2/NDF : 11.8/18

Left In: 37.816 ± 209.862 χ^2/NDF : 11.3/14

Left: -612.728 ± 144.986 χ^2/NDF : 66.5/31

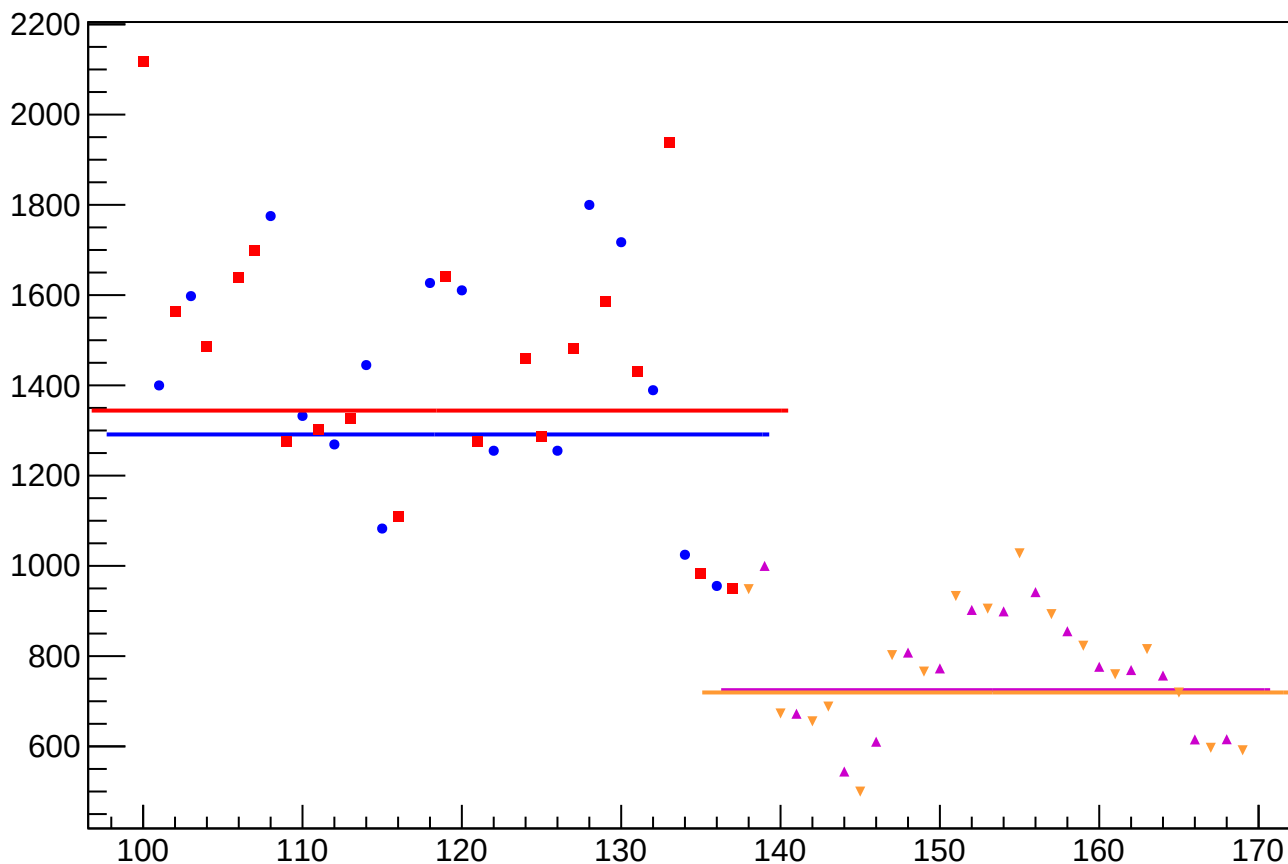
Right: 134.764 ± 351.618 χ^2/NDF : 37.9/34

In: -77.248 ± 193.110 χ^2/NDF : 33.4/30

Out: -900.941 ± 186.195 χ^2/NDF : 65.4/35

All: -504.106 ± 134.038 χ^2/NDF : 108.2/66

asym_sam_2468_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 1291.223+/-0.349 χ^2/NDF : 610897.3/15

Left Out: 719.469+/-0.142 χ^2/NDF : 1010671.9/16

Right Out: 1344.118+/-0.355 χ^2/NDF : 490963.7/18

Left In: 724.555+/-0.148 χ^2/NDF : 782186.1/14

Left: 721.897+/-0.103 χ^2/NDF : 1793472.0/31

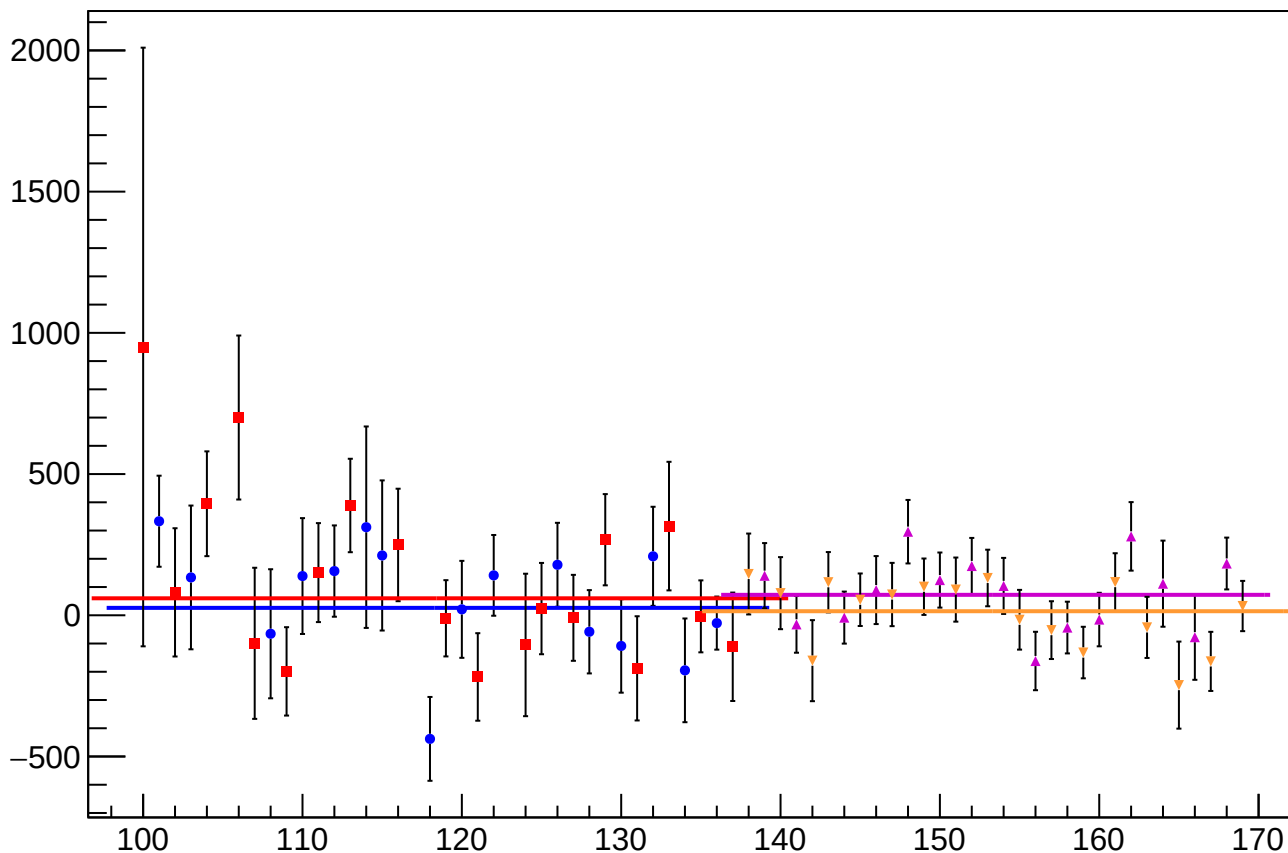
Right: 1317.239+/-0.249 χ^2/NDF : 1113173.0/34

In: 811.411+/-0.137 χ^2/NDF : 3628150.1/30

Out: 805.618+/-0.132 χ^2/NDF : 4177894.8/35

All: 808.409+/-0.095 χ^2/NDF : 7806977.6/66

eigen_dit_asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 26.252 ± 41.219 $\chi^2/\text{NDF}: 21.4/15$

Left Out: 14.370 ± 26.126 $\chi^2/\text{NDF}: 16.8/16$

Right Out: 60.117 ± 41.528 $\chi^2/\text{NDF}: 27.0/18$

Left In: 72.382 ± 27.259 $\chi^2/\text{NDF}: 20.6/14$

Left: 42.145 ± 18.862 $\chi^2/\text{NDF}: 39.7/31$

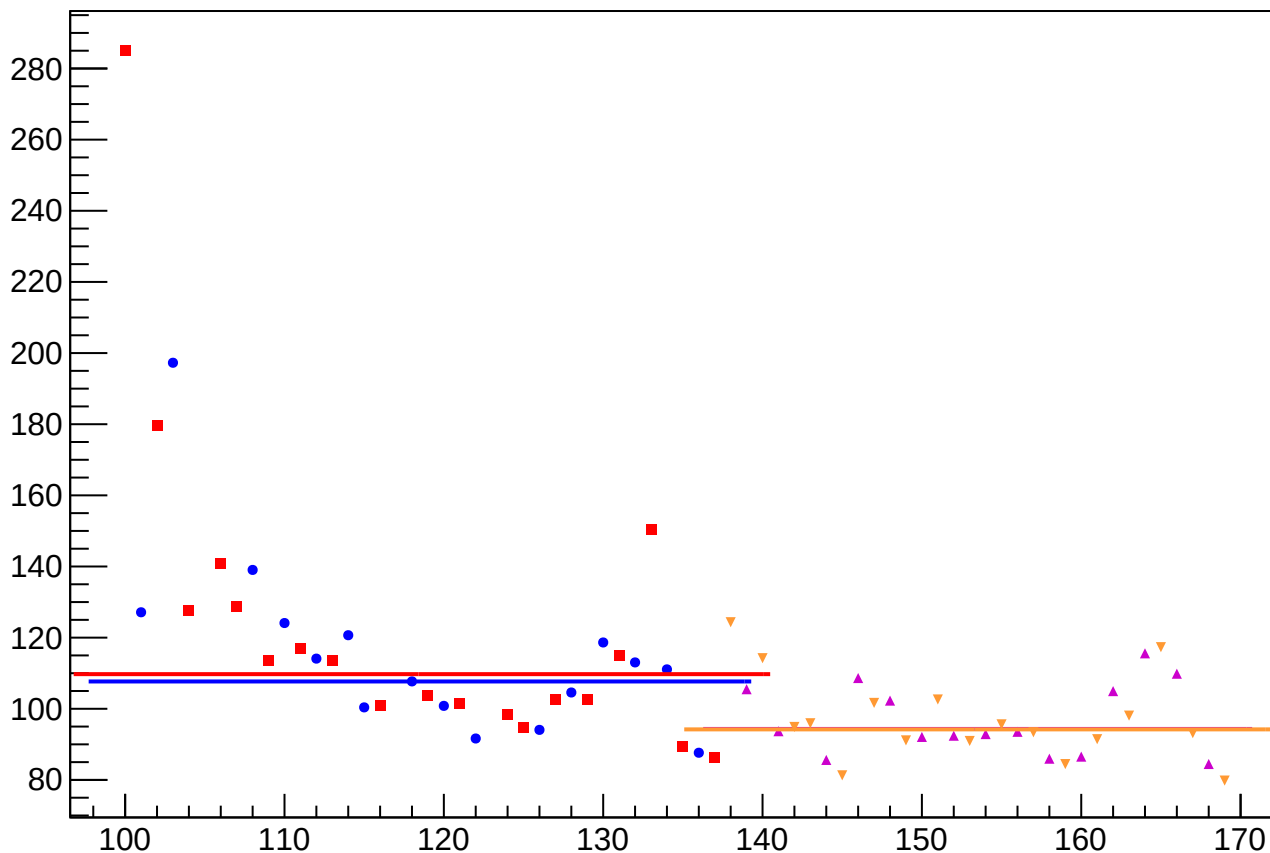
Right: 43.058 ± 29.255 $\chi^2/\text{NDF}: 48.7/34$

In: 58.346 ± 22.737 $\chi^2/\text{NDF}: 42.9/30$

Out: 27.342 ± 22.114 $\chi^2/\text{NDF}: 44.6/35$

All: 42.413 ± 15.853 $\chi^2/\text{NDF}: 88.4/66$

eigen_dit_asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 107.679 $\pm$ 0.029 χ^2 /NDF: 483112.2/15

Left Out: 94.210 $\pm$ 0.018 χ^2 /NDF:325555.9/16

Right Out: 109.739 $\pm$ 0.029 χ^2 /NDF: 491784.5/18

Left In: 94.332 $\pm$ 0.019 χ^2 /NDF:205947.0/14

Left: 94.268 $\pm$ 0.013 χ^2 /NDF: 531524.0/31

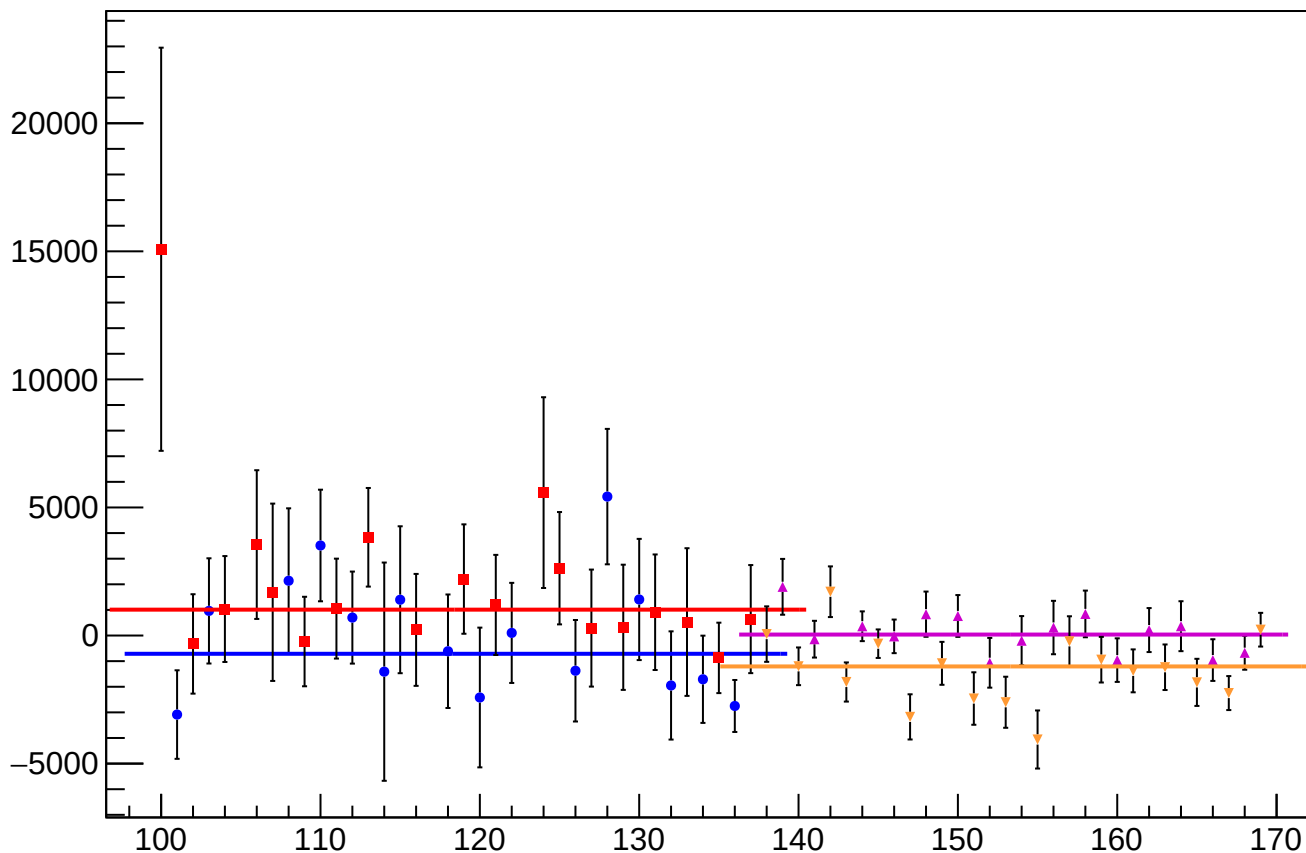
Right: 108.701 $\pm$ 0.021 χ^2 /NDF: 977375.0/34

In: 98.393 $\pm$ 0.016 χ^2 /NDF:834943.8/30

Out: 98.613 $\pm$ 0.016 χ^2 /NDF:1017705.7/35

All: 98.506 $\pm$ 0.011 χ^2 /NDF: 1852745.4/66

asym_sam_2468_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -712.881 ± 493.252 χ^2/NDF : 20.1/15

Left Out: -1206.739 ± 200.536 χ^2/NDF : 36.8/16

Right Out: 1010.556 ± 501.373 χ^2/NDF : 11.8/18

Left In: 37.814 ± 209.862 χ^2/NDF : 11.3/14

Left: -612.728 ± 144.985 χ^2/NDF : 66.5/31

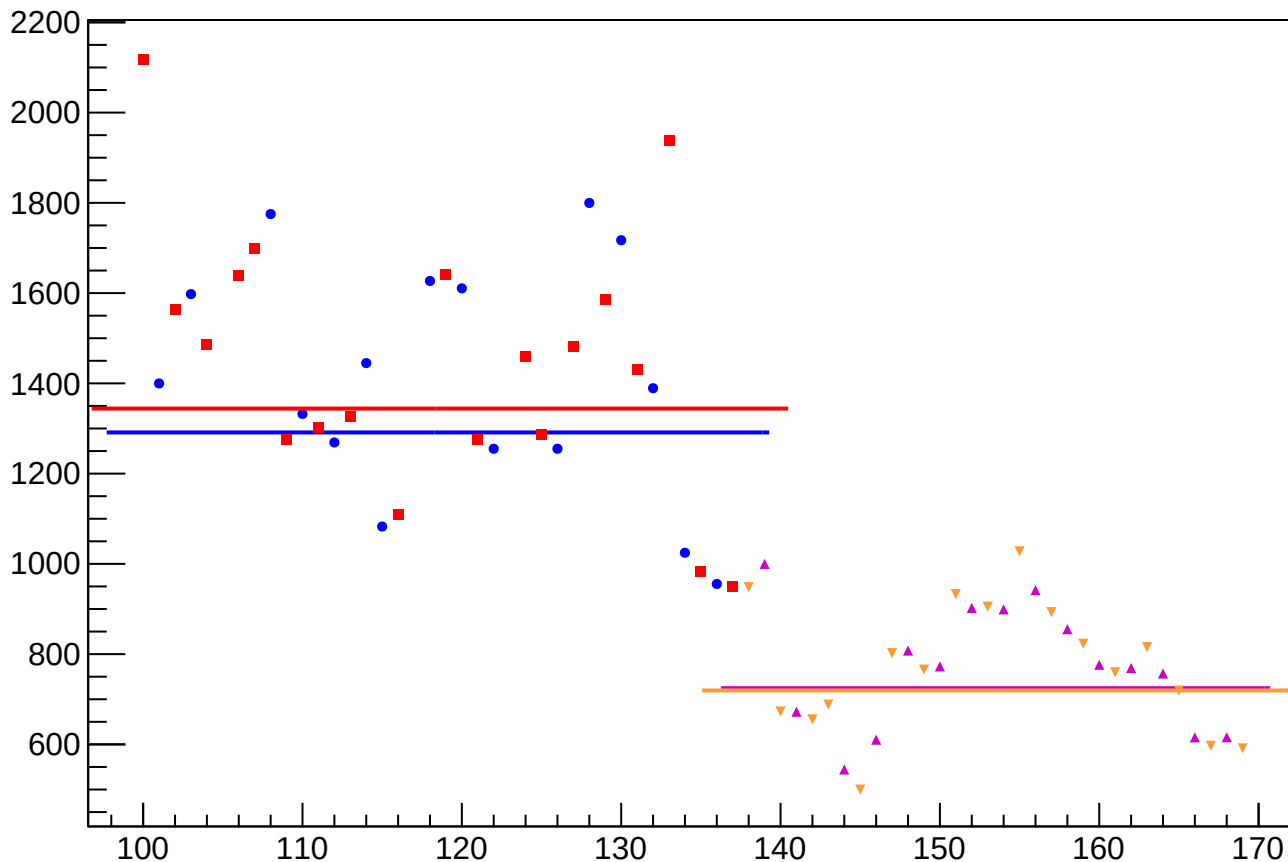
Right: 134.766 ± 351.618 χ^2/NDF : 37.9/34

In: -77.249 ± 193.110 χ^2/NDF : 33.4/30

Out: -900.938 ± 186.195 χ^2/NDF : 65.4/35

All: -504.105 ± 134.038 χ^2/NDF : 108.2/66

asym_sam_2468_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 1291.220+/-0.349 χ^2/NDF : 610894.9/15

Left Out: 719.467+/-0.142 χ^2/NDF : 1010684.1/16

Right Out: 1344.115+/-0.355 χ^2/NDF : 490963.4/18

Left In: 724.554+/-0.148 χ^2/NDF : 782188.3/14

Left: 721.895+/-0.103 χ^2/NDF : 1793486.5/31

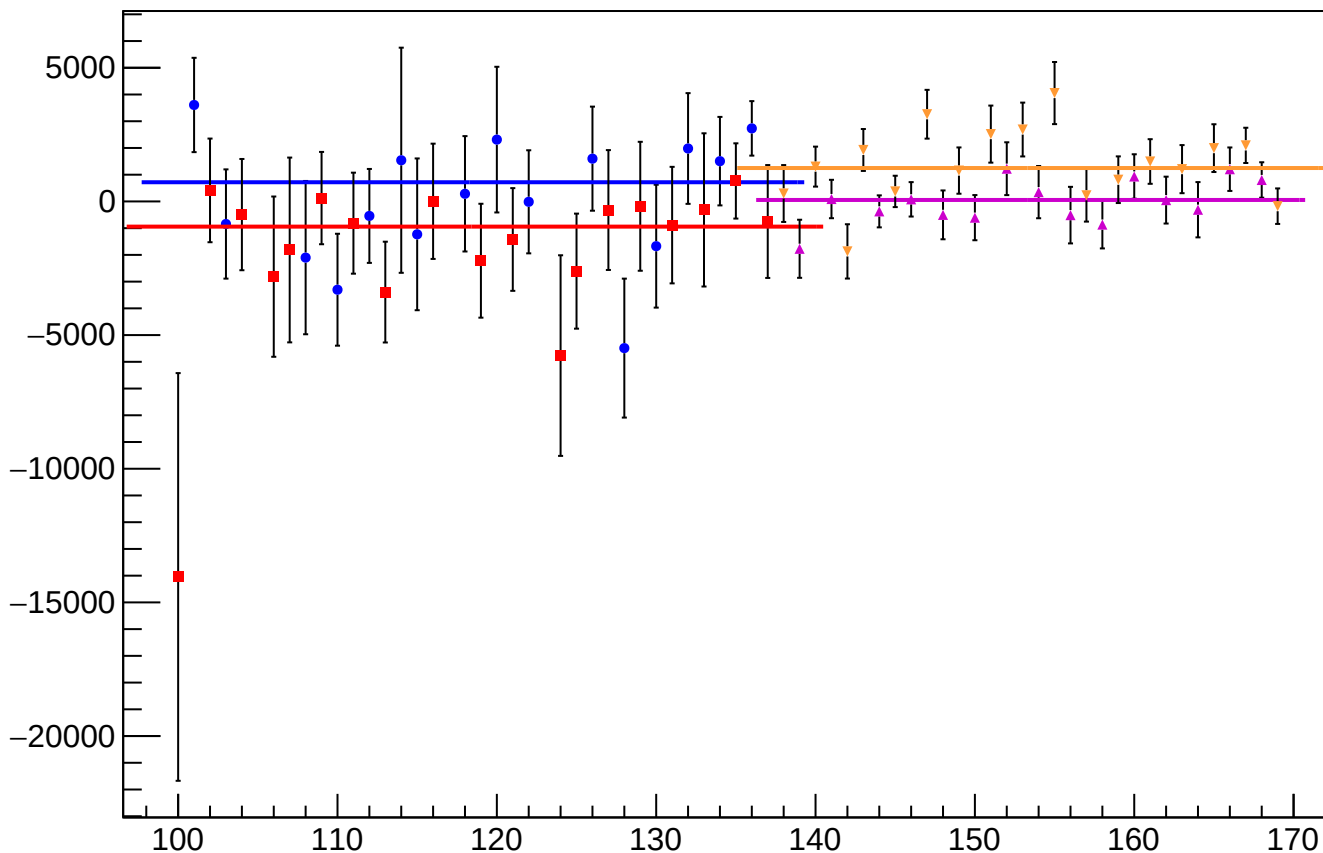
Right: 1317.235+/-0.249 χ^2/NDF : 1113170.2/34

In: 811.410+/-0.137 χ^2/NDF : 3628147.7/30

Out: 805.616+/-0.132 χ^2/NDF : 4177907.3/35

All: 808.407+/-0.095 χ^2/NDF : 7806987.9/66

asym_sam_2468_avg_mean vs Slug, Sign Corrected



Right In: 717.617 $\pm$ 488.239 χ^2 /NDF: 21.0/15

Left Out: 1249.675 $\pm$ 203.489 χ^2 /NDF:35.7/16

Right Out: -942.308 $\pm$ 498.052 χ^2 /NDF: 10.6/18

Left In: 54.870 $\pm$ 211.839 χ^2 /NDF:11.7/14

Left: 676.284 $\pm$ 146.752 χ^2 /NDF: 64.0/31

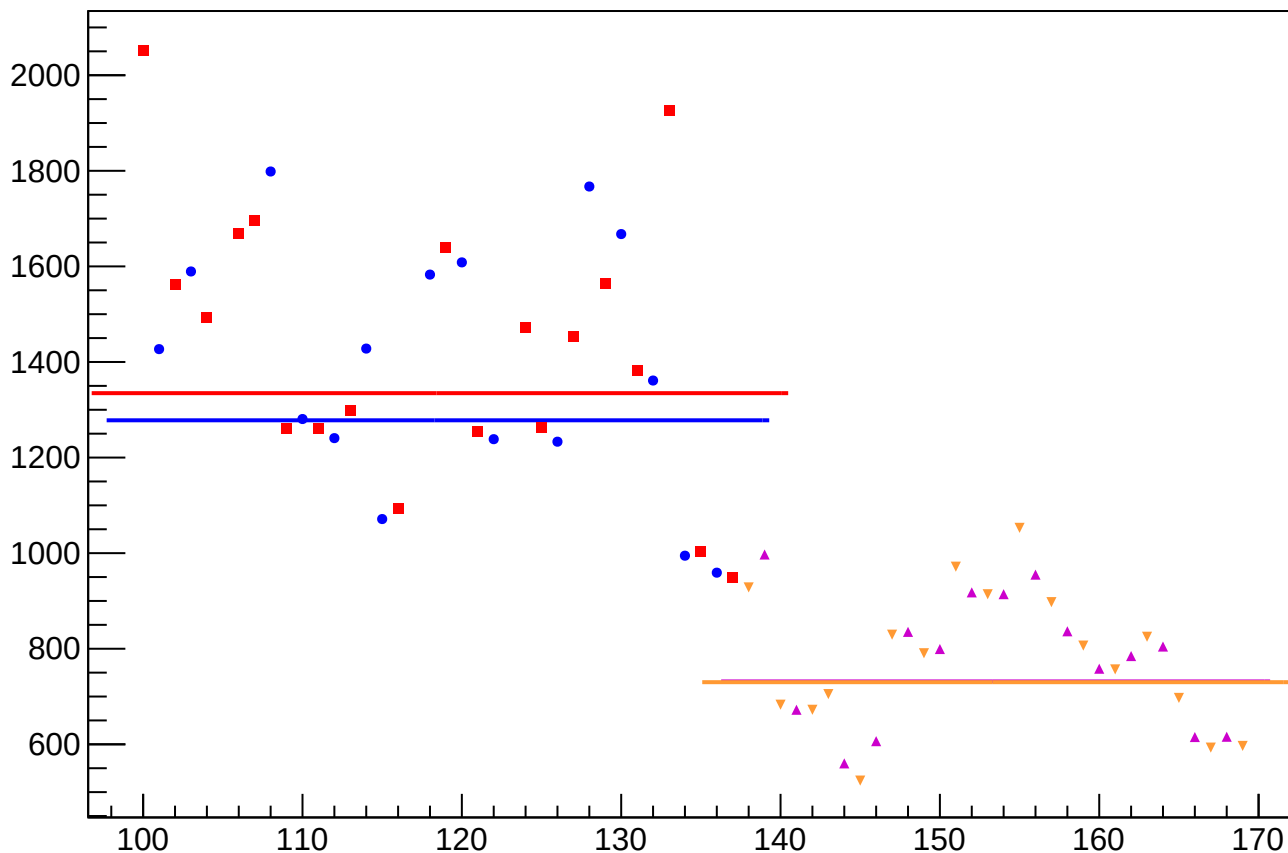
Right: -95.832 $\pm$ 348.655 χ^2 /NDF: 37.2/34

In: 159.869 $\pm$ 194.335 χ^2 /NDF:34.2/30

Out: 936.111 $\pm$ 188.373 χ^2 /NDF:62.9/35

All: 560.080 $\pm$ 135.259 χ^2 /NDF: 105.4/66

asym_sam_2468_avg_rms vs Slug, Sign Corrected



Right In: 1277.979+/-0.345 χ^2/NDF : 597666.8/15

Left Out: 730.034+/-0.144 χ^2/NDF : 956933.5/16

Right Out: 1334.775+/-0.352 χ^2/NDF : 471897.2/18

Left In: 731.606+/-0.150 χ^2/NDF : 790357.1/14

Left: 730.789+/-0.104 χ^2/NDF : 1747347.9/31

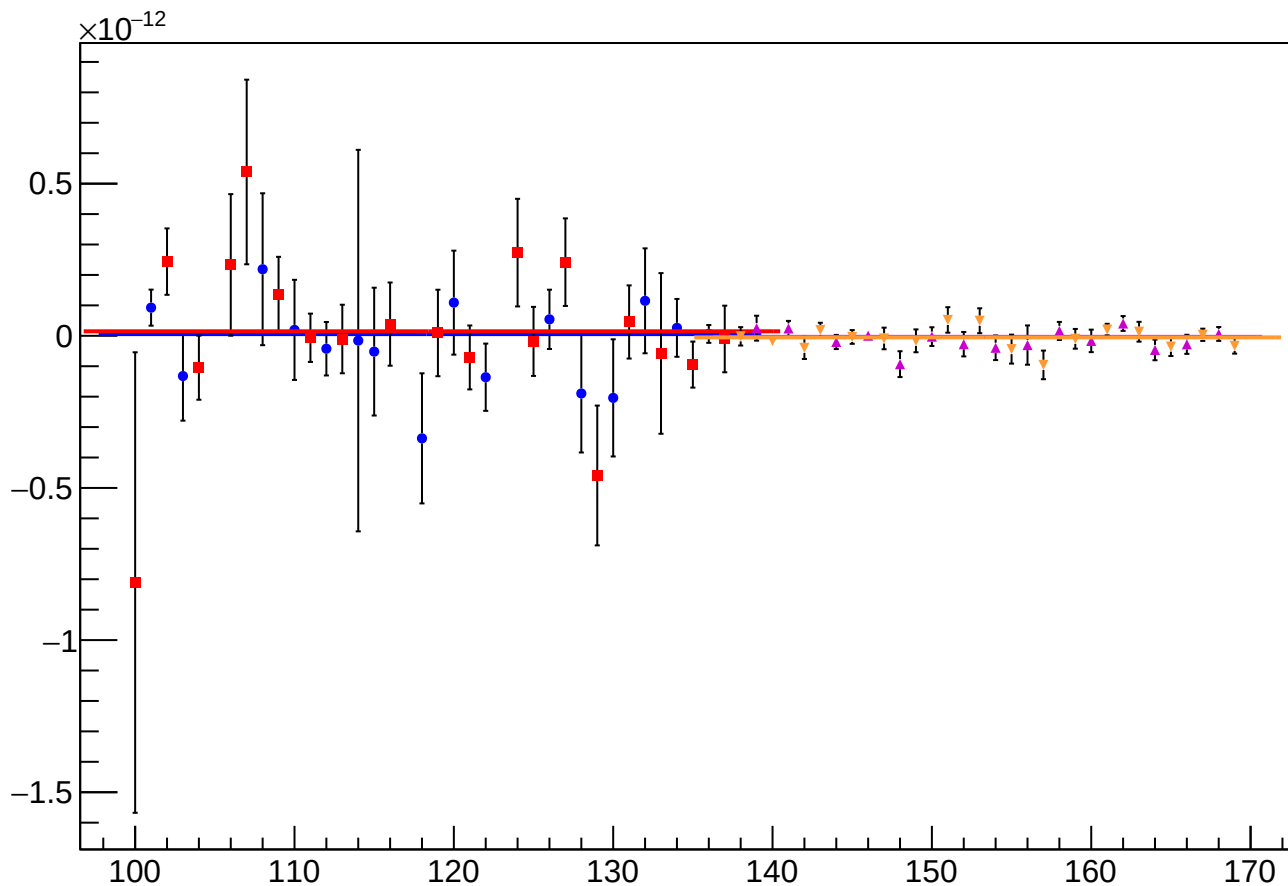
Right: 1305.812+/-0.247 χ^2/NDF : 1082827.2/34

In: 818.168+/-0.137 χ^2/NDF : 3495844.7/30

Out: 816.543+/-0.133 χ^2/NDF : 3955654.2/35

All: 817.330+/-0.096 χ^2/NDF : 7451571.1/66

asym_sam_2468_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000 χ^2 /NDF: 11.6/15

Left Out: -0.000 $\pm$ 0.000 χ^2 /NDF:15.1/16

Right Out: 0.000 $\pm$ 0.000 χ^2 /NDF: 23.8/18

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:14.3/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 29.5/31

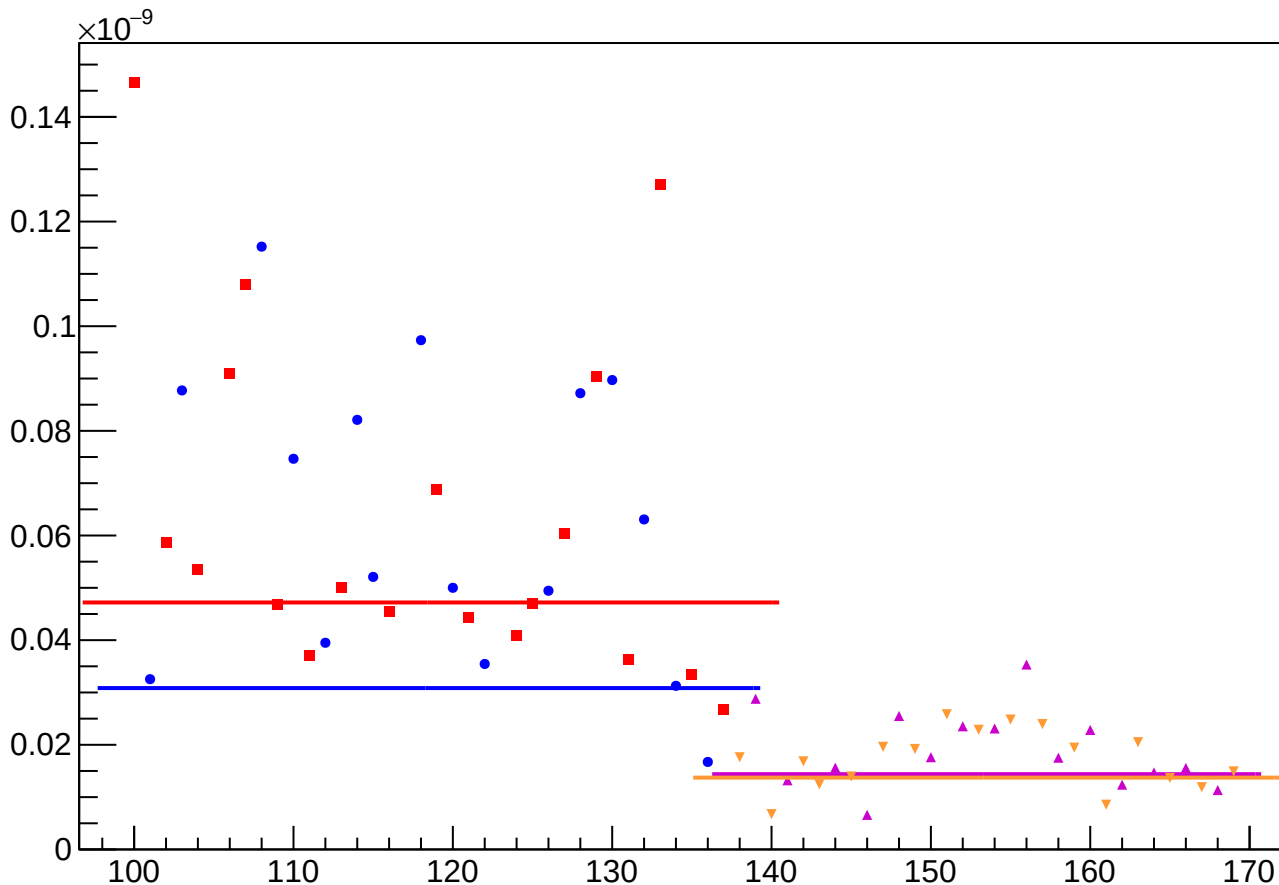
Right: 0.000 $\pm$ 0.000 χ^2 /NDF: 35.5/34

In: -0.000 $\pm$ 0.000 χ^2 /NDF:26.1/30

Out: -0.000 $\pm$ 0.000 χ^2 /NDF:39.4/35

All: -0.000 $\pm$ 0.000 χ^2 /NDF: 65.5/66

asym_sam_2468_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1912879.1/15

Left Out: 0.000+/-0.000 χ^2/NDF :1358632.1/16

Right Out: 0.000+/-0.000 χ^2/NDF : 722091.3/18

Left In: 0.000+/-0.000 χ^2/NDF :1576163.4/14

Left: 0.000+/-0.000 χ^2/NDF : 2943963.3/31

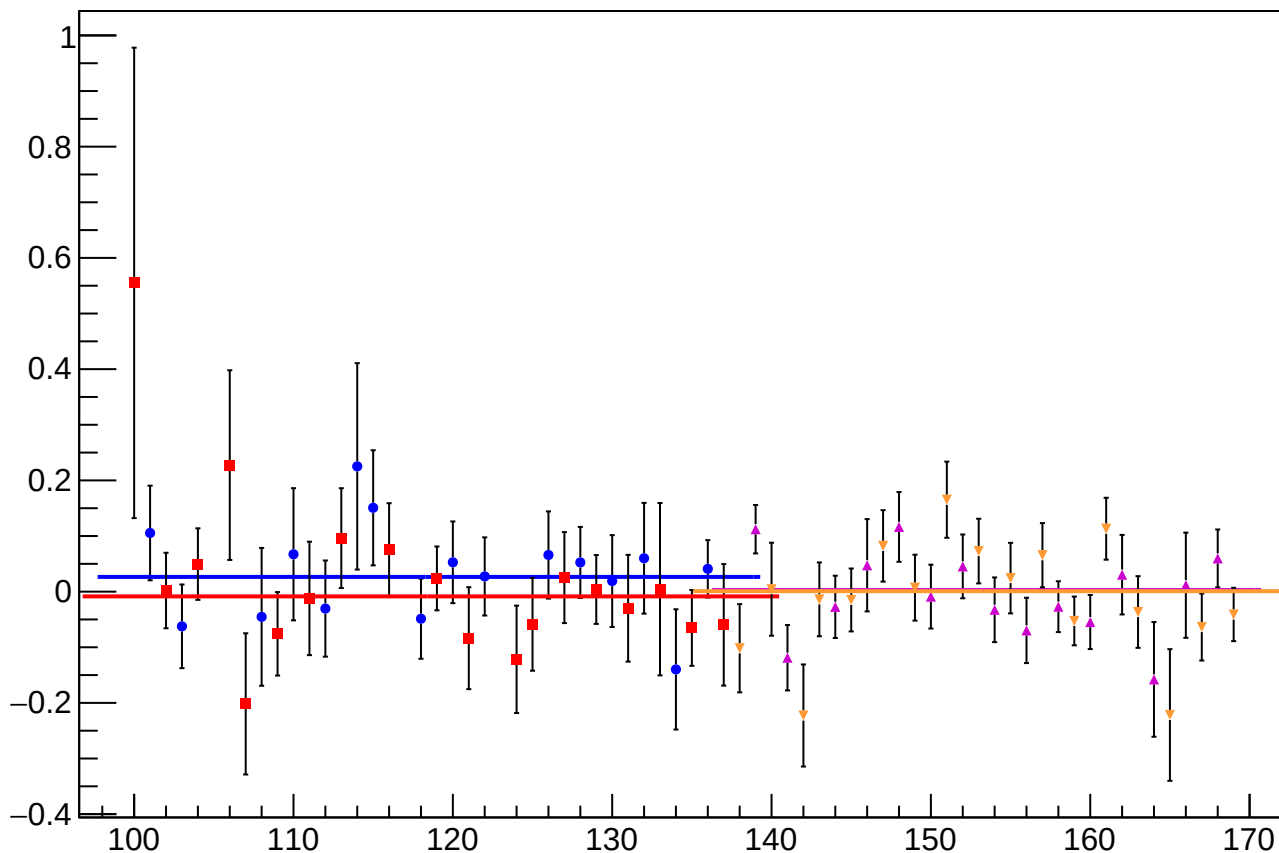
Right: 0.000+/-0.000 χ^2/NDF : 3051679.0/34

In: 0.000+/-0.000 χ^2/NDF :4535974.5/30

Out: 0.000+/-0.000 χ^2/NDF :4679312.5/35

All: 0.000+/-0.000 χ^2/NDF : 9224460.8/66

asym_sam_2468_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.020 χ^2 /NDF: 9.9/15

Left Out: 0.001 $\pm$ 0.015 χ^2 /NDF:29.4/16

Right Out: -0.009 $\pm$ 0.019 χ^2 /NDF: 13.9/18

Left In: 0.003 $\pm$ 0.015 χ^2 /NDF:22.5/14

Left: 0.002 $\pm$ 0.011 χ^2 /NDF: 52.0/31

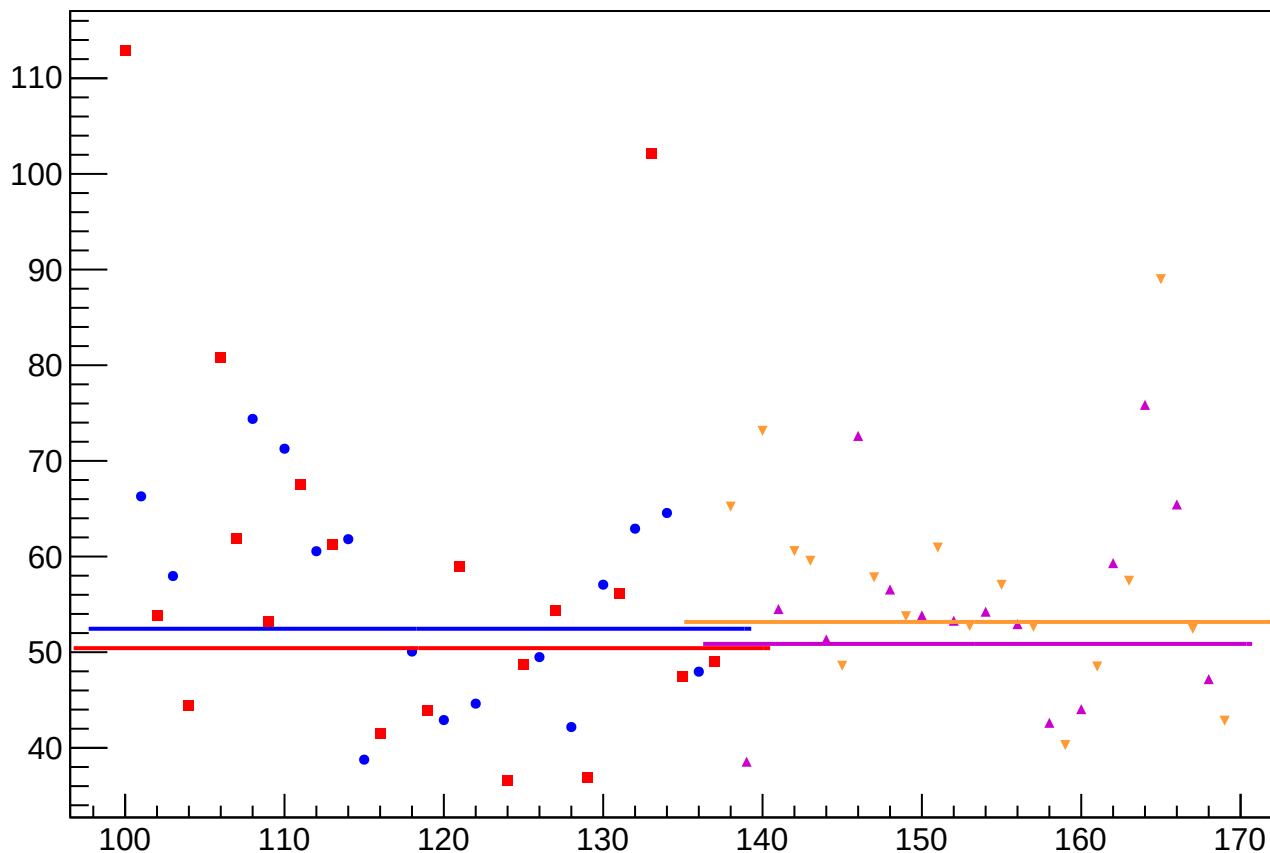
Right: 0.008 $\pm$ 0.014 χ^2 /NDF: 25.4/34

In: 0.011 $\pm$ 0.012 χ^2 /NDF:33.3/30

Out: -0.003 $\pm$ 0.012 χ^2 /NDF:43.5/35

All: 0.004 $\pm$ 0.008 χ^2 /NDF: 77.5/66

asym_sam_2468_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.451 $\pm$ 0.014 χ^2 /NDF: 418014.5/15

Left Out: 53.164 $\pm$ 0.011 χ^2 /NDF: 721461.4/16

Right Out: 50.423 $\pm$ 0.014 χ^2 /NDF: 676747.2/18

Left In: 50.867 $\pm$ 0.011 χ^2 /NDF: 646948.7/14

Left: 52.017 $\pm$ 0.008 χ^2 /NDF: 1391656.6/31

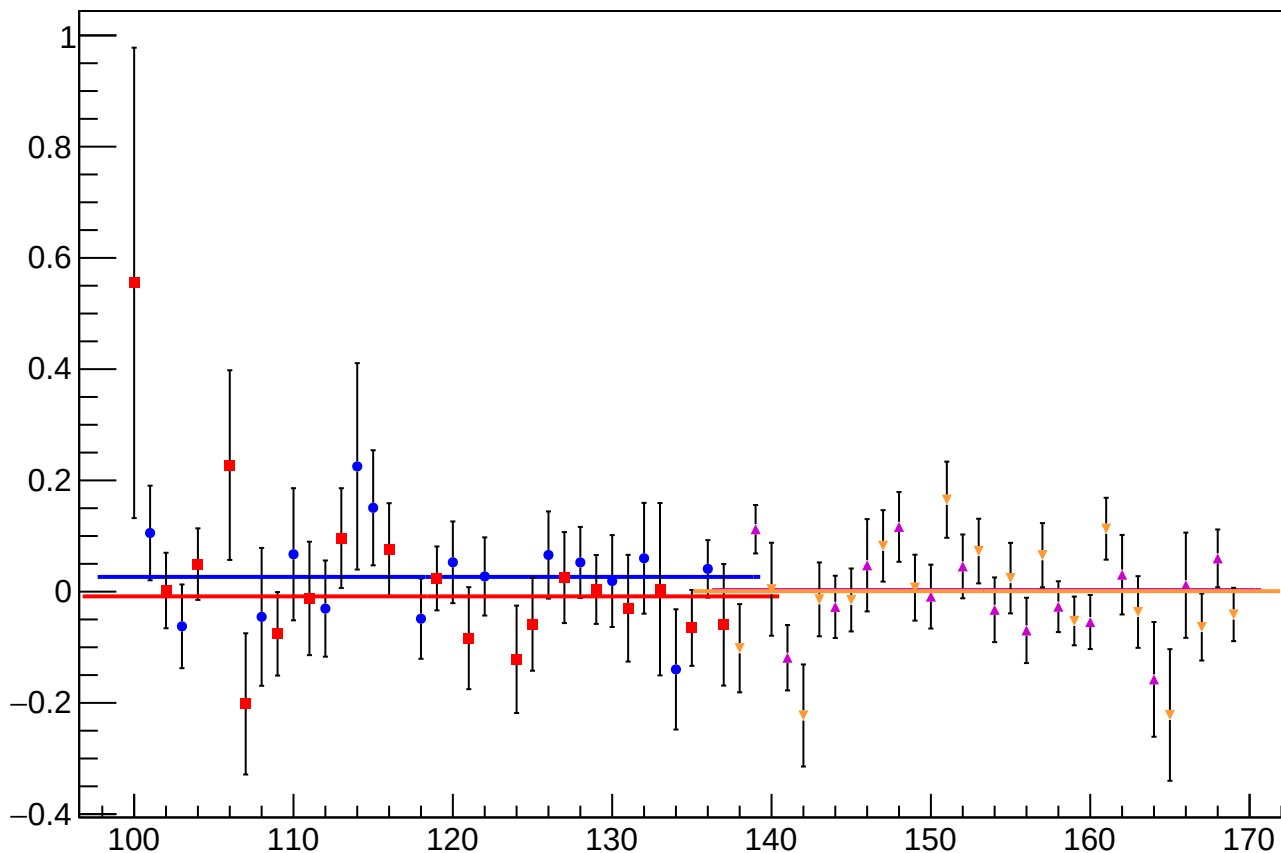
Right: 51.390 $\pm$ 0.010 χ^2 /NDF: 1105100.5/34

In: 51.427 $\pm$ 0.009 χ^2 /NDF: 1072756.9/30

Out: 52.139 $\pm$ 0.008 χ^2 /NDF: 1423010.0/35

All: 51.789 $\pm$ 0.006 χ^2 /NDF: 2499281.5/66

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.020 χ^2 /NDF: 9.9/15

Left Out: 0.001 $\pm$ 0.015 χ^2 /NDF:29.4/16

Right Out: -0.009 $\pm$ 0.019 χ^2 /NDF: 13.9/18

Left In: 0.003 $\pm$ 0.015 χ^2 /NDF:22.5/14

Left: 0.002 $\pm$ 0.011 χ^2 /NDF: 52.0/31

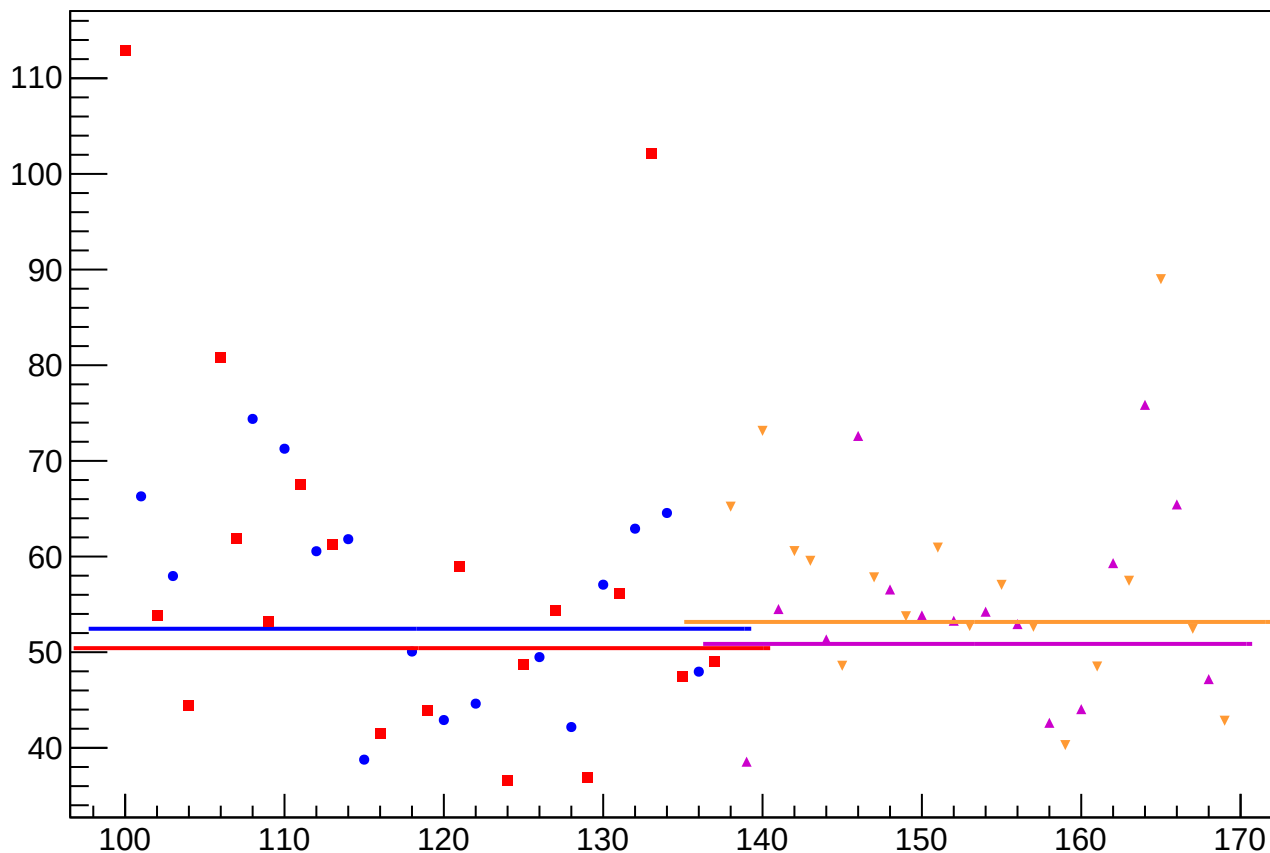
Right: 0.008 $\pm$ 0.014 χ^2 /NDF: 25.4/34

In: 0.011 $\pm$ 0.012 χ^2 /NDF:33.3/30

Out: -0.003 $\pm$ 0.012 χ^2 /NDF:43.5/35

All: 0.004 $\pm$ 0.008 χ^2 /NDF: 77.5/66

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.451+/-0.014 χ^2/NDF : 418014.5/15

Left Out: 53.164+/-0.011 χ^2/NDF : 721461.4/16

Right Out: 50.423+/-0.014 χ^2/NDF : 676747.2/18

Left In: 50.867+/-0.011 χ^2/NDF : 646948.7/14

Left: 52.017+/-0.008 χ^2/NDF : 1391656.6/31

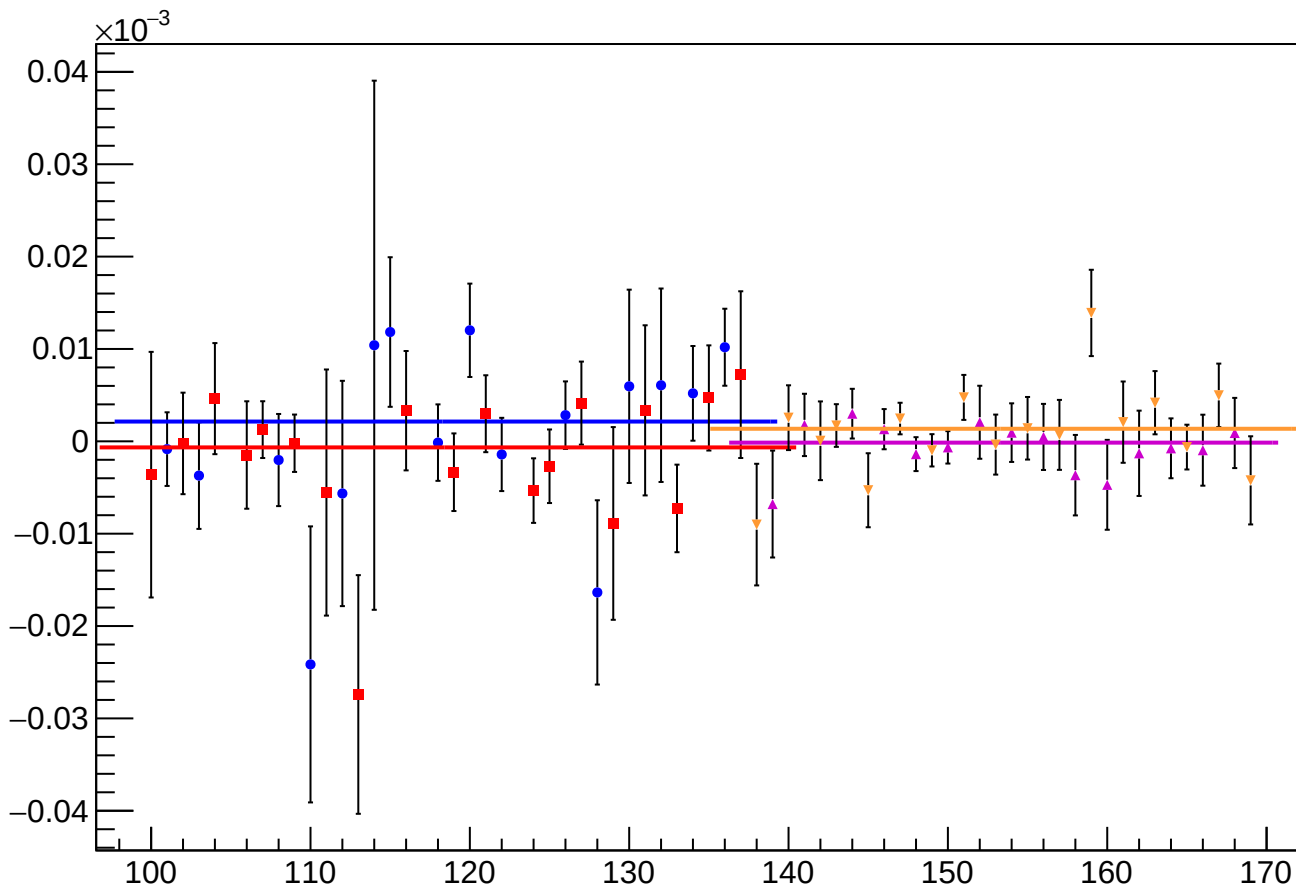
Right: 51.390+/-0.010 χ^2/NDF : 1105100.5/34

In: 51.427+/-0.009 χ^2/NDF : 1072756.9/30

Out: 52.139+/-0.008 χ^2/NDF : 1423010.0/35

All: 51.789+/-0.006 χ^2/NDF : 2499281.5/66

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20.1/15

Left Out: 0.000+/-0.000 χ^2/NDF : 21.0/16

Right Out: -0.000+/-0.000 χ^2/NDF : 14.8/18

Left In: -0.000+/-0.000 χ^2/NDF : 6.2/14

Left: 0.000+/-0.000 χ^2/NDF : 29.3/31

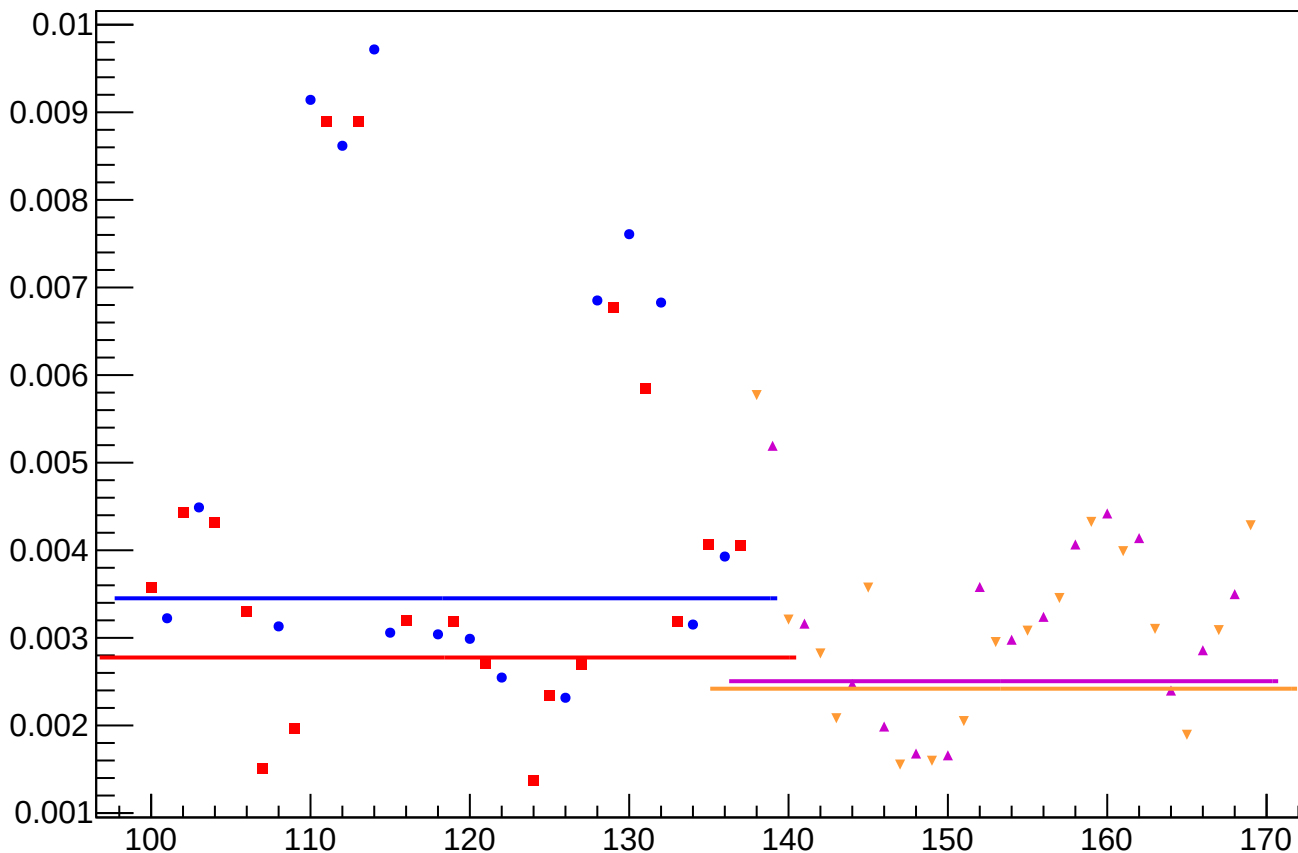
Right: 0.000+/-0.000 χ^2/NDF : 37.3/34

In: 0.000+/-0.000 χ^2/NDF : 28.4/30

Out: 0.000+/-0.000 χ^2/NDF : 38.0/35

All: 0.000+/-0.000 χ^2/NDF : 66.6/66

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 1951102.6/15

Left Out: 0.002+/-0.000 χ^2/NDF :3269754.7/16

Right Out: 0.003+/-0.000 χ^2/NDF : 2734939.6/18

Left In: 0.003+/-0.000 χ^2/NDF :2740547.3/14

Left: 0.002+/-0.000 χ^2/NDF : 6023688.1/31

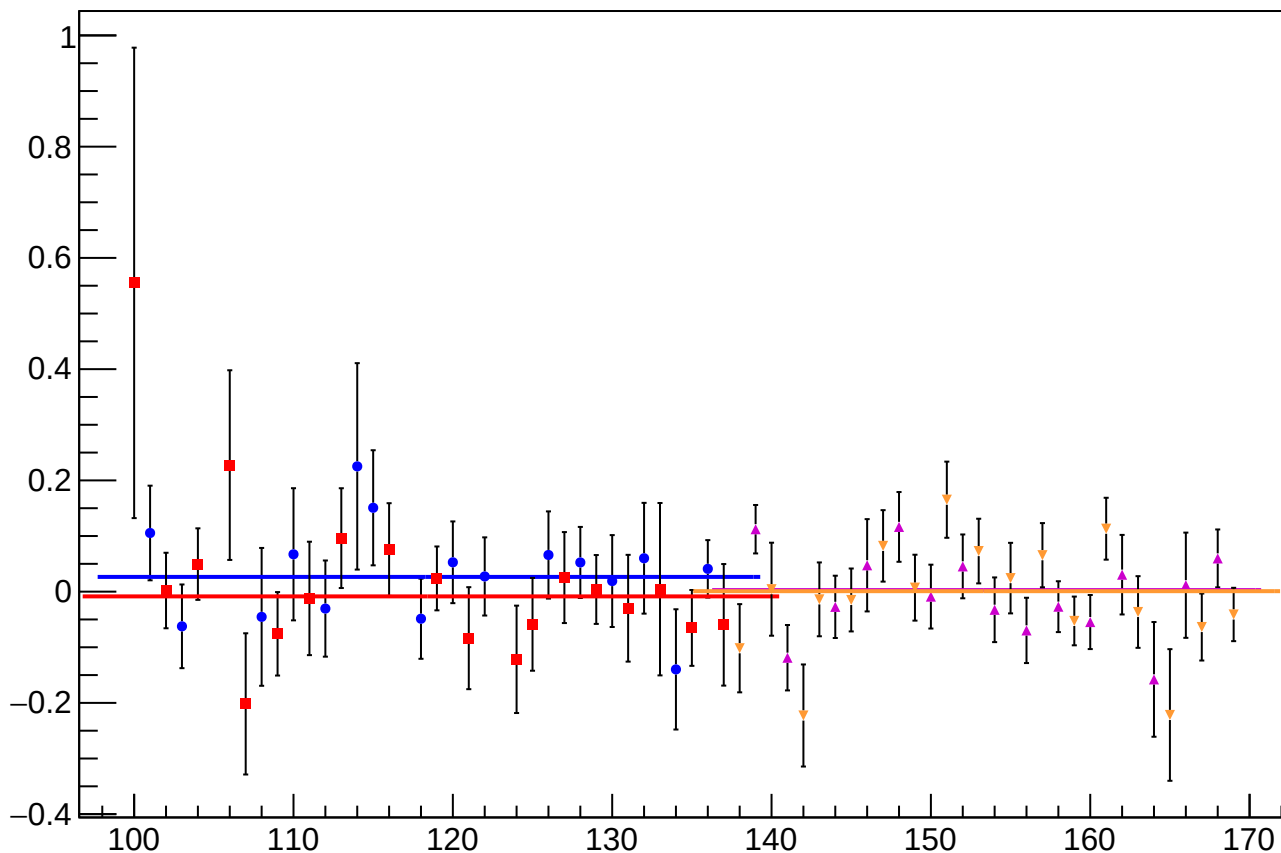
Right: 0.003+/-0.000 χ^2/NDF : 4968092.4/34

In: 0.003+/-0.000 χ^2/NDF :5406240.6/30

Out: 0.003+/-0.000 χ^2/NDF :6143706.2/35

All: 0.003+/-0.000 χ^2/NDF : 11656568.9/66

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026+/-0.020 χ^2/NDF : 9.9/15

Left Out: 0.001+/-0.015 χ^2/NDF : 29.4/16

Right Out: -0.009+/-0.019 χ^2/NDF : 13.9/18

Left In: 0.003+/-0.015 χ^2/NDF : 22.5/14

Left: 0.002+/-0.011 χ^2/NDF : 52.0/31

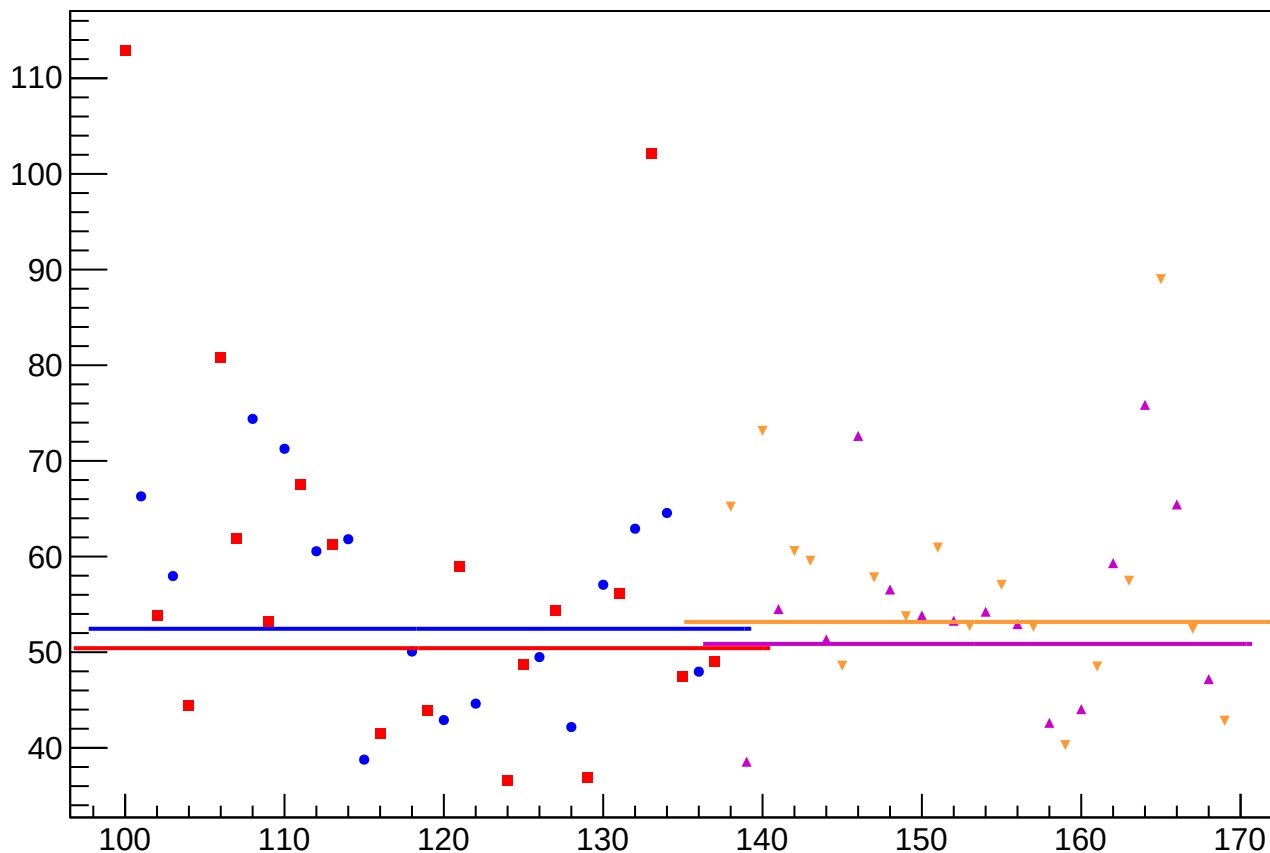
Right: 0.008+/-0.014 χ^2/NDF : 25.4/34

In: 0.011+/-0.012 χ^2/NDF : 33.3/30

Out: -0.003+/-0.012 χ^2/NDF : 43.5/35

All: 0.004+/-0.008 χ^2/NDF : 77.5/66

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.450+/-0.014 χ^2/NDF : 417967.5/15

Left Out: 53.165+/-0.011 χ^2/NDF : 721466.5/16

Right Out: 50.422+/-0.014 χ^2/NDF : 676753.5/18

Left In: 50.868+/-0.011 χ^2/NDF : 647034.7/14

Left: 52.018+/-0.008 χ^2/NDF : 1391752.3/31

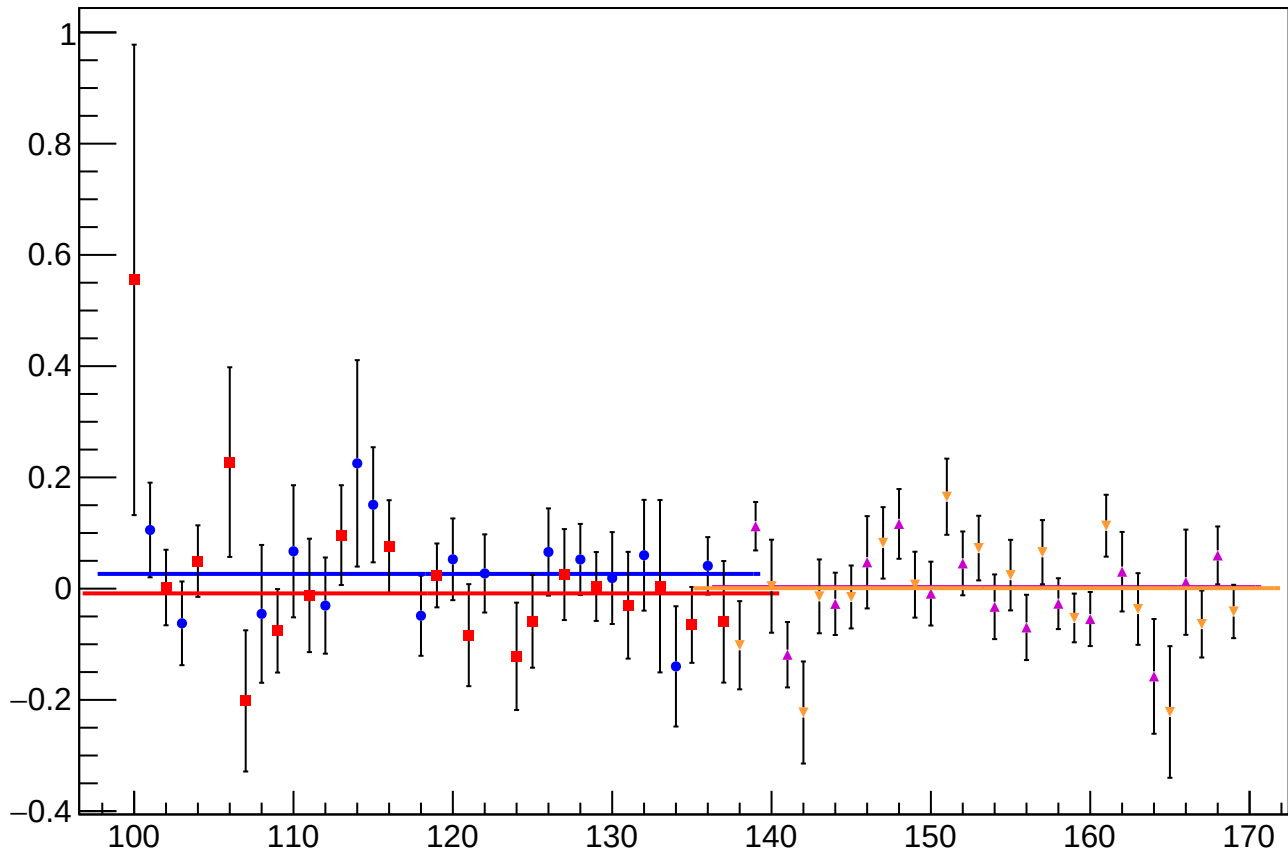
Right: 51.389+/-0.010 χ^2/NDF : 1105059.9/34

In: 51.426+/-0.009 χ^2/NDF : 1072782.9/30

Out: 52.139+/-0.008 χ^2/NDF : 1423049.8/35

All: 51.789+/-0.006 χ^2/NDF : 2499348.2/66

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.026 ± 0.020 $\chi^2/\text{NDF}: 9.9/15$

Left Out: 0.001 ± 0.015 $\chi^2/\text{NDF}: 29.4/16$

Right Out: -0.009 ± 0.019 $\chi^2/\text{NDF}: 13.9/18$

Left In: 0.003 ± 0.015 $\chi^2/\text{NDF}: 22.5/14$

Left: 0.002 ± 0.011 $\chi^2/\text{NDF}: 52.0/31$

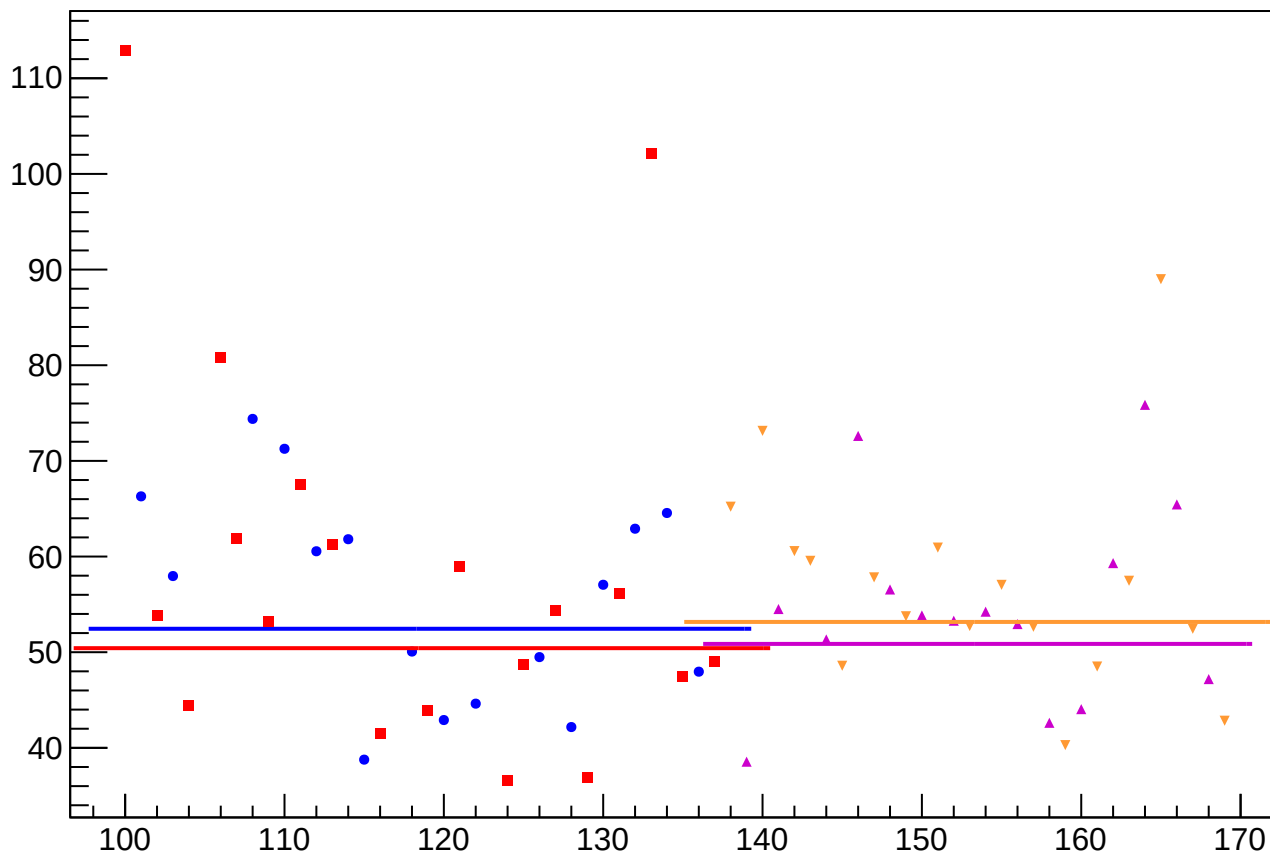
Right: 0.008 ± 0.014 $\chi^2/\text{NDF}: 25.4/34$

In: 0.011 ± 0.012 $\chi^2/\text{NDF}: 33.3/30$

Out: -0.003 ± 0.012 $\chi^2/\text{NDF}: 43.5/35$

All: 0.004 ± 0.008 $\chi^2/\text{NDF}: 77.5/66$

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 52.450 $\pm$ 0.014 χ^2/NDF : 417967.5/15

Left Out: 53.165 $\pm$ 0.011 χ^2/NDF : 721466.5/16

Right Out: 50.422 $\pm$ 0.014 χ^2/NDF : 676753.5/18

Left In: 50.868 $\pm$ 0.011 χ^2/NDF : 647034.7/14

Left: 52.018 $\pm$ 0.008 χ^2/NDF : 1391752.3/31

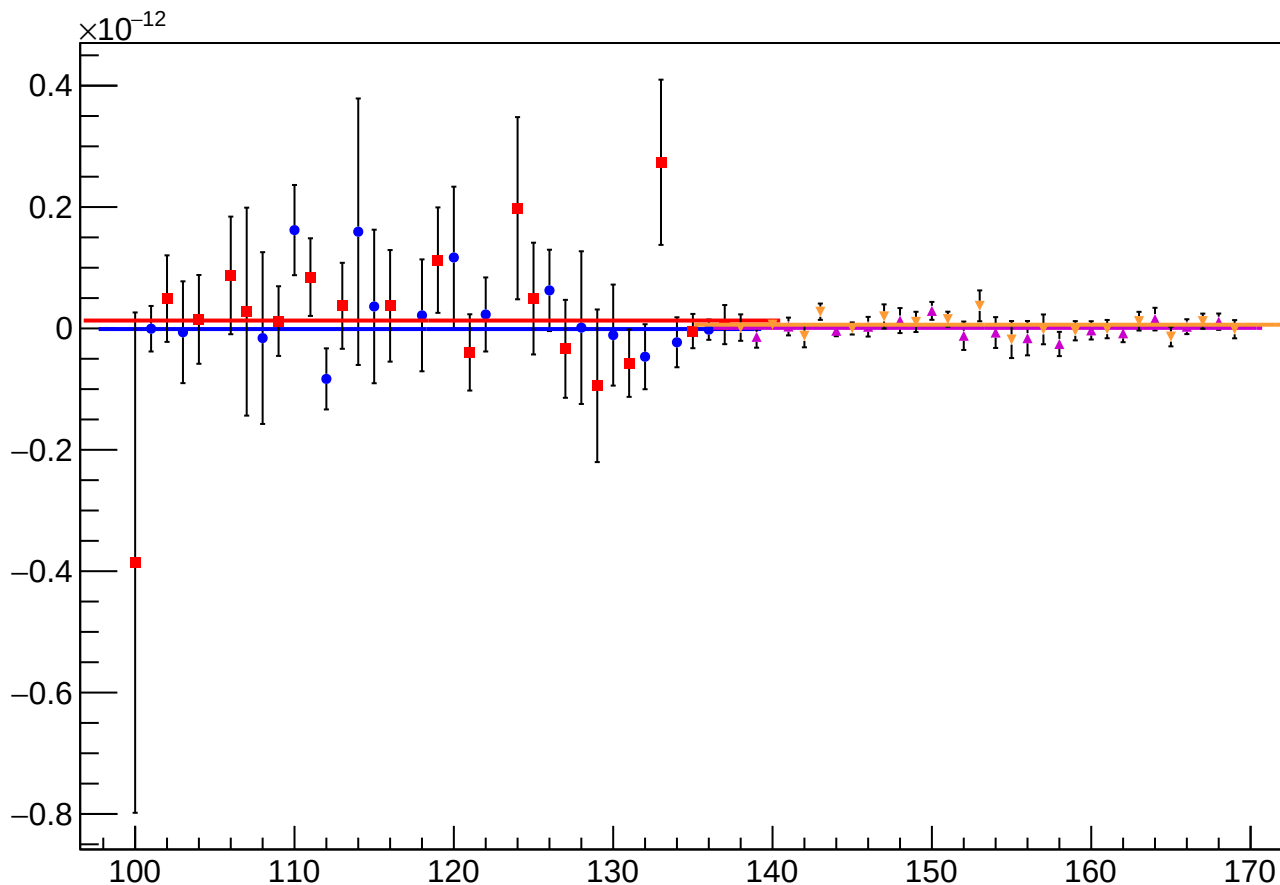
Right: 51.389 $\pm$ 0.010 χ^2/NDF : 1105059.9/34

In: 51.426 $\pm$ 0.009 χ^2/NDF : 1072782.9/30

Out: 52.139 $\pm$ 0.008 χ^2/NDF : 1423049.8/35

All: 51.789 $\pm$ 0.006 χ^2/NDF : 2499348.2/66

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 11.3/15

Left Out: 0.000+/-0.000 χ^2/NDF :9.9/16

Right Out: 0.000+/-0.000 χ^2/NDF : 13.7/18

Left In: 0.000+/-0.000 χ^2/NDF :9.1/14

Left: 0.000+/-0.000 χ^2/NDF : 20.0/31

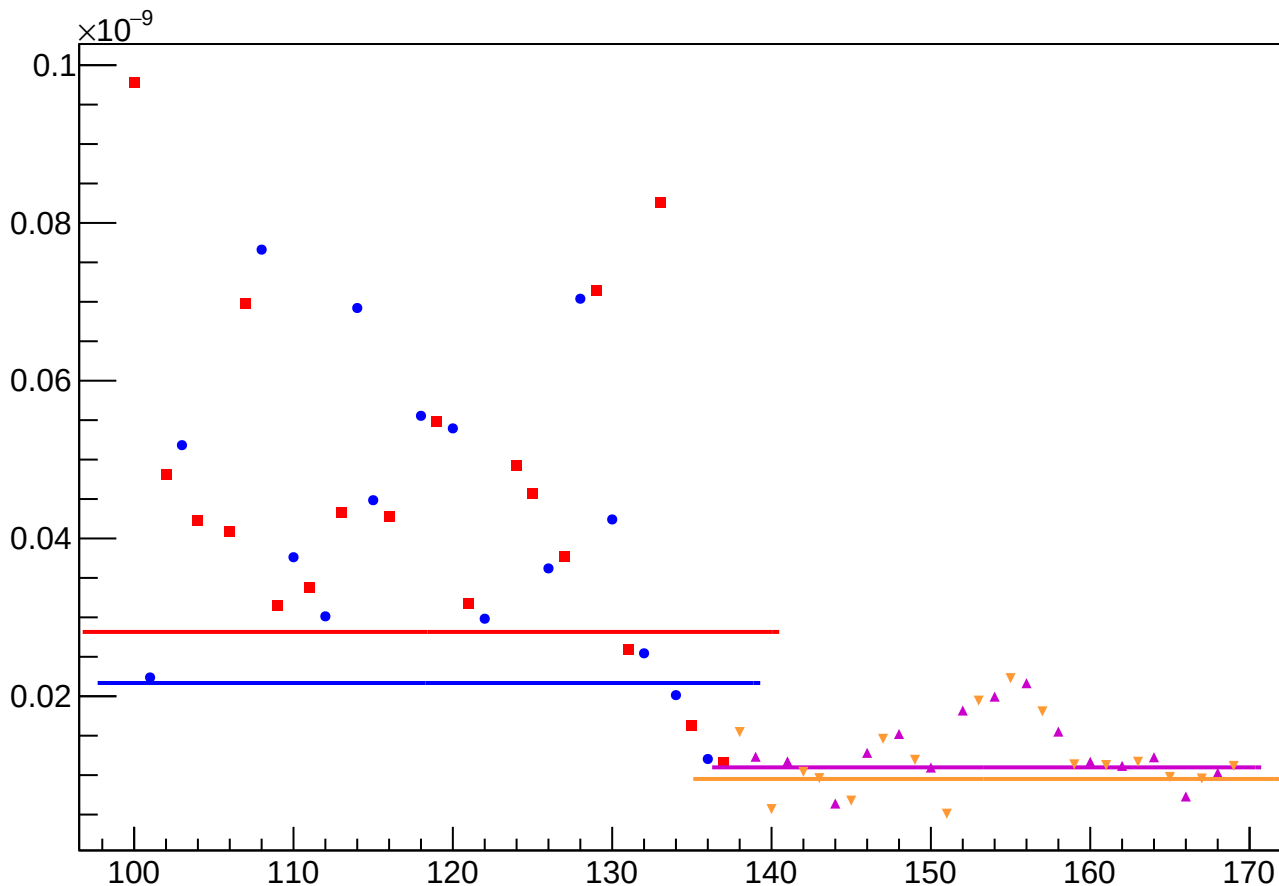
Right: 0.000+/-0.000 χ^2/NDF : 25.5/34

In: 0.000+/-0.000 χ^2/NDF :20.4/30

Out: 0.000+/-0.000 χ^2/NDF :23.8/35

All: 0.000+/-0.000 χ^2/NDF : 45.5/66

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2522749.6/15

Left Out: 0.000+/-0.000 χ^2/NDF : 2185906.7/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2381736.6/18

Left In: 0.000+/-0.000 χ^2/NDF : 1663368.4/14

Left: 0.000+/-0.000 χ^2/NDF : 3999520.9/31

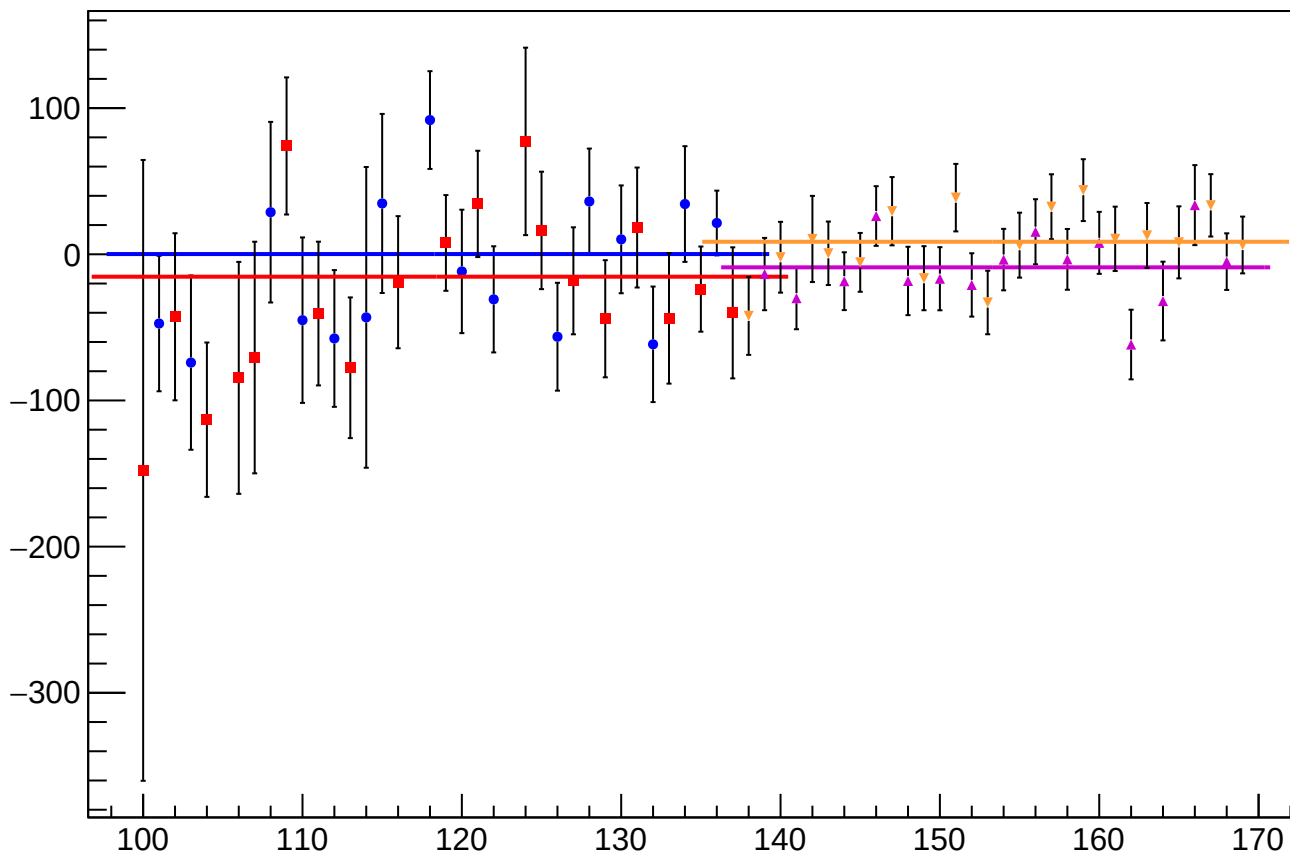
Right: 0.000+/-0.000 χ^2/NDF : 5141383.5/34

In: 0.000+/-0.000 χ^2/NDF : 5618582.1/30

Out: 0.000+/-0.000 χ^2/NDF : 7685417.1/35

All: 0.000+/-0.000 χ^2/NDF : 13474643.5/66

reg_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: 0.155 ± 10.048 $\chi^2/\text{NDF}: 21.3/15$

Left Out: 8.577 ± 5.453 $\chi^2/\text{NDF}: 17.3/16$

Right Out: -15.333 ± 10.267 $\chi^2/\text{NDF}: 17.9/18$

Left In: -8.931 ± 5.692 $\chi^2/\text{NDF}: 14.9/14$

Left: 0.199 ± 3.938 $\chi^2/\text{NDF}: 37.1/31$

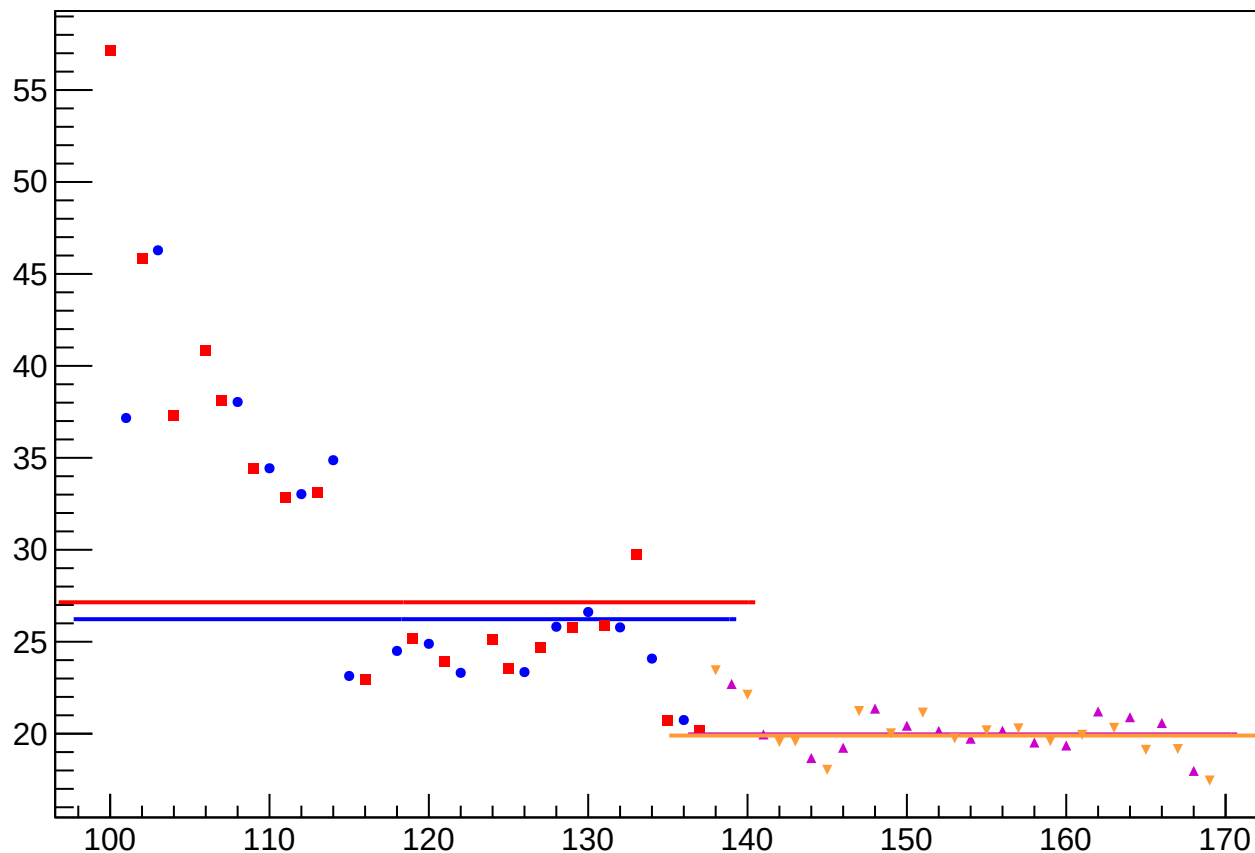
Right: -7.422 ± 7.181 $\chi^2/\text{NDF}: 40.4/34$

In: -6.723 ± 4.953 $\chi^2/\text{NDF}: 36.8/30$

Out: 3.316 ± 4.816 $\chi^2/\text{NDF}: 39.4/35$

All: -1.563 ± 3.453 $\chi^2/\text{NDF}: 78.4/66$

reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.227 $\pm$ 0.007 χ^2/NDF : 676026.2/15

Left Out: 19.899 $\pm$ 0.004 χ^2/NDF : 120585.0/16

Right Out: 27.145 $\pm$ 0.007 χ^2/NDF : 755419.8/18

Left In: 19.962 $\pm$ 0.004 χ^2/NDF : 76725.8/14

Left: 19.929 $\pm$ 0.003 χ^2/NDF : 197436.8/31

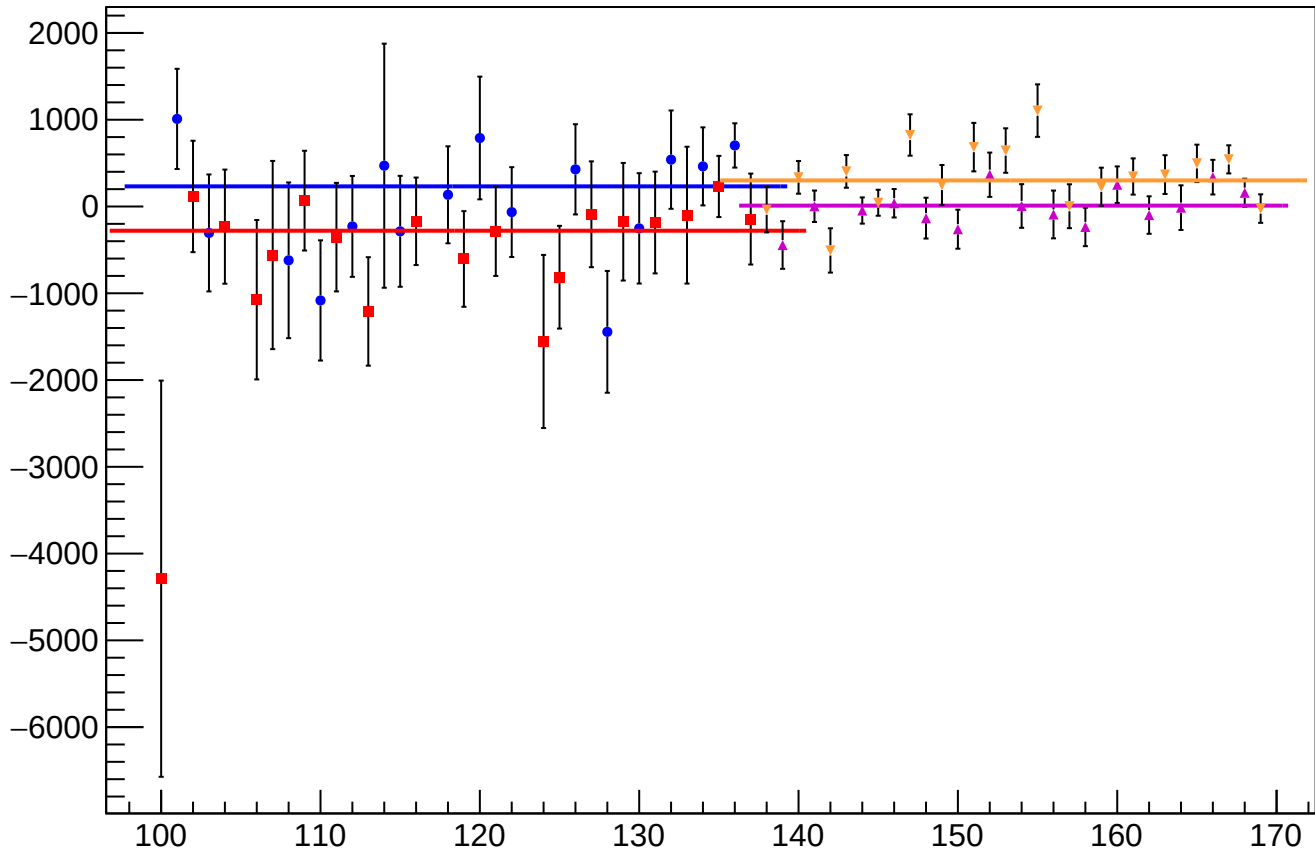
Right: 26.676 $\pm$ 0.005 χ^2/NDF : 1439621.2/34

In: 21.484 $\pm$ 0.004 χ^2/NDF : 1341386.2/30

Out: 21.494 $\pm$ 0.003 χ^2/NDF : 1652981.8/35

All: 21.489 $\pm$ 0.002 χ^2/NDF : 2994371.8/66

asym_sam_1357_2468_dd_reg_correction_mean vs Slug, Sign Corrected



Right In: 232.092 ± 134.871 χ^2/NDF : 19.6/15

Left Out: 300.601 ± 51.155 χ^2/NDF : 39.2/16

Right Out: -279.042 ± 139.965 χ^2/NDF : 12.1/18

Left In: 10.177 ± 53.474 χ^2/NDF : 13.2/14

Left: 161.823 ± 36.965 χ^2/NDF : 67.7/31

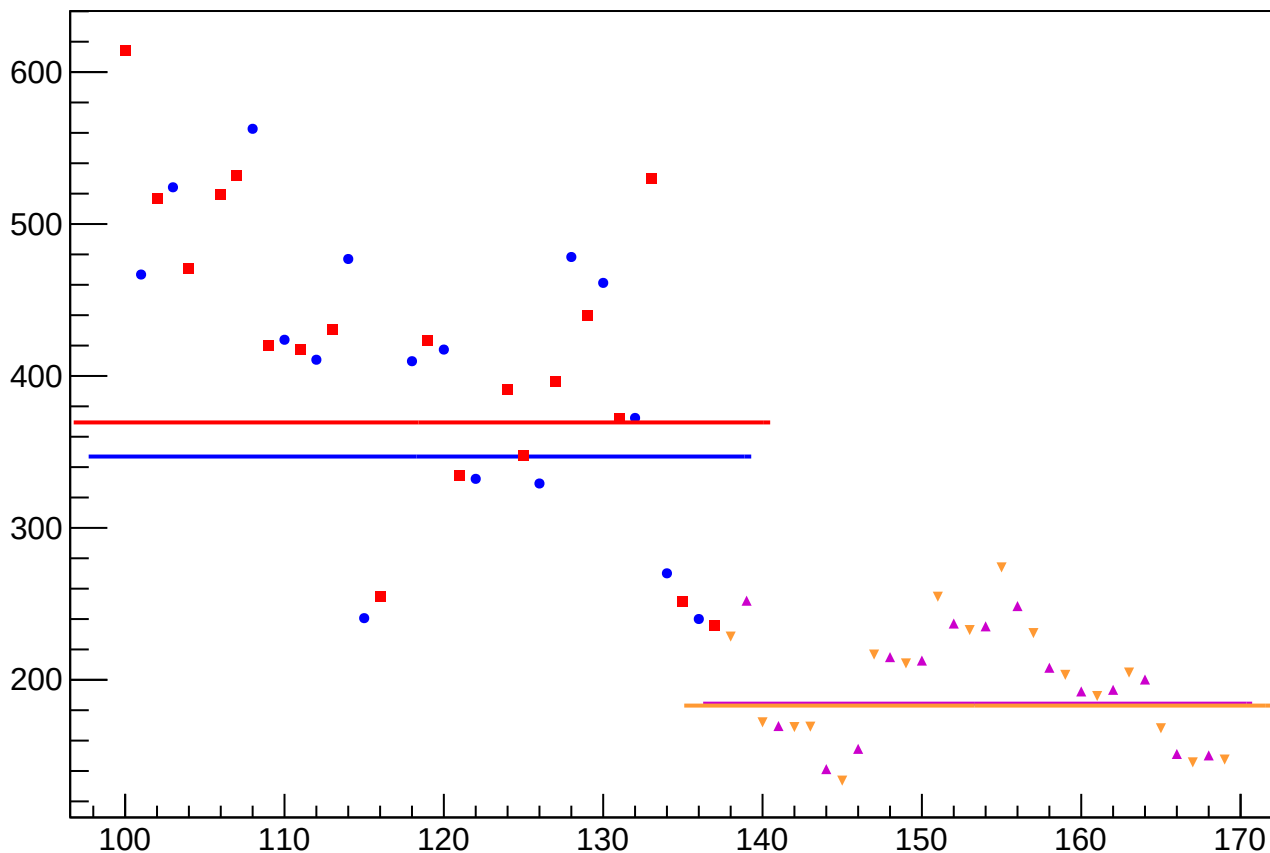
Right: -14.004 ± 97.119 χ^2/NDF : 38.6/34

In: 40.322 ± 49.709 χ^2/NDF : 35.2/30

Out: 232.298 ± 48.046 χ^2/NDF : 66.4/35

All: 139.575 ± 34.547 χ^2/NDF : 109.3/66

asym_sam_1357_2468_dd_reg_correction_rms vs Slug, Sign Corrected



Right In: 346.969 $\pm$ 0.095 χ^2 /NDF: 1058029.4/15

Left Out: 183.047 $\pm$ 0.036 χ^2 /NDF:1075854.7/16

Right Out: 369.410 $\pm$ 0.099 χ^2 /NDF: 918852.6/18

Left In: 184.317 $\pm$ 0.038 χ^2 /NDF:886103.5/14

Left: 183.654 $\pm$ 0.026 χ^2 /NDF: 1962547.3/31

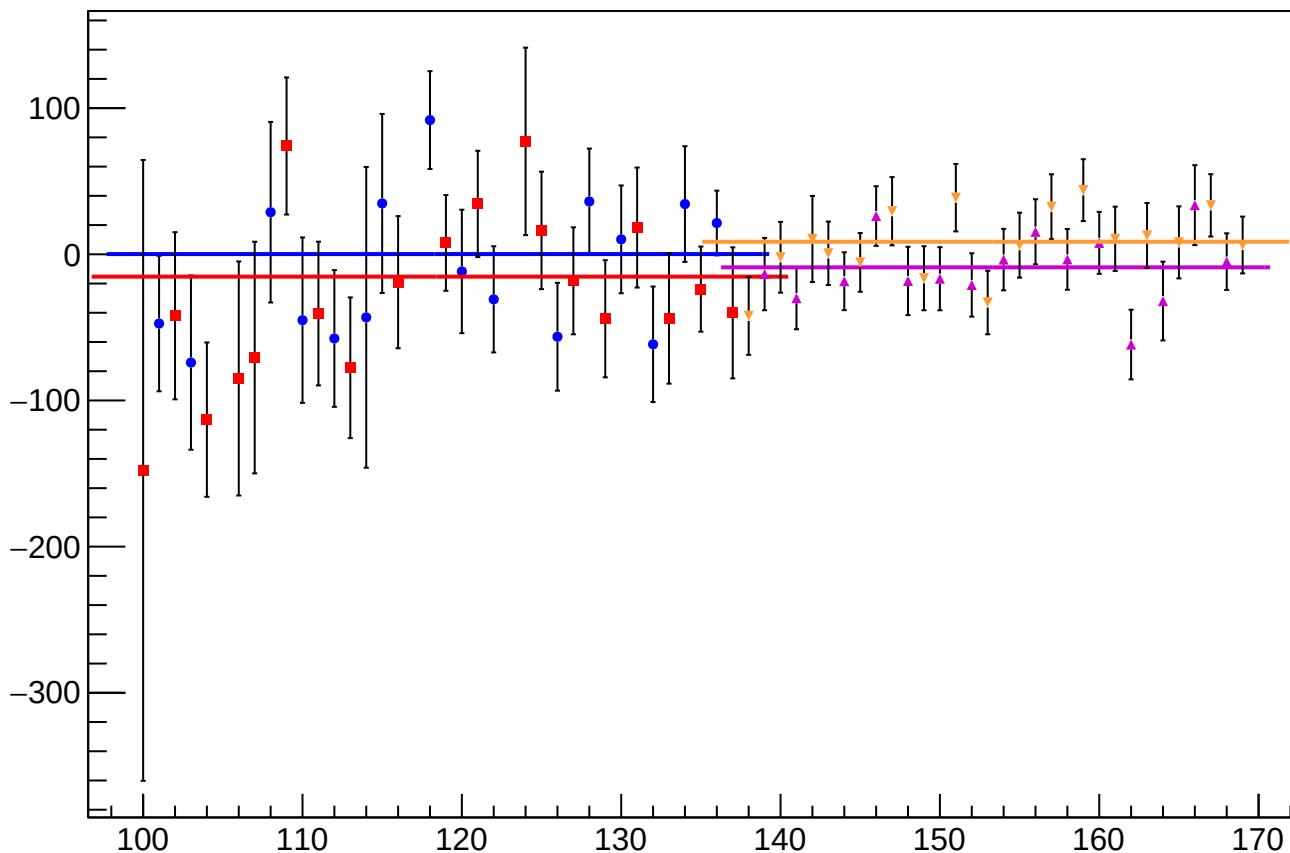
Right: 357.774 $\pm$ 0.069 χ^2 /NDF: 2003541.6/34

In: 206.413 $\pm$ 0.035 χ^2 /NDF:4457772.8/30

Out: 205.008 $\pm$ 0.034 χ^2 /NDF:5122647.0/35

All: 205.686 $\pm$ 0.024 χ^2 /NDF: 9581245.6/66

cor_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: 0.157 ± 10.048 χ^2/NDF : 21.3/15

Left Out: 8.577 ± 5.453 χ^2/NDF : 17.3/16

Right Out: -15.292 ± 10.269 χ^2/NDF : 17.9/18

Left In: -8.931 ± 5.692 χ^2/NDF : 14.9/14

Left: 0.198 ± 3.938 χ^2/NDF : 37.1/31

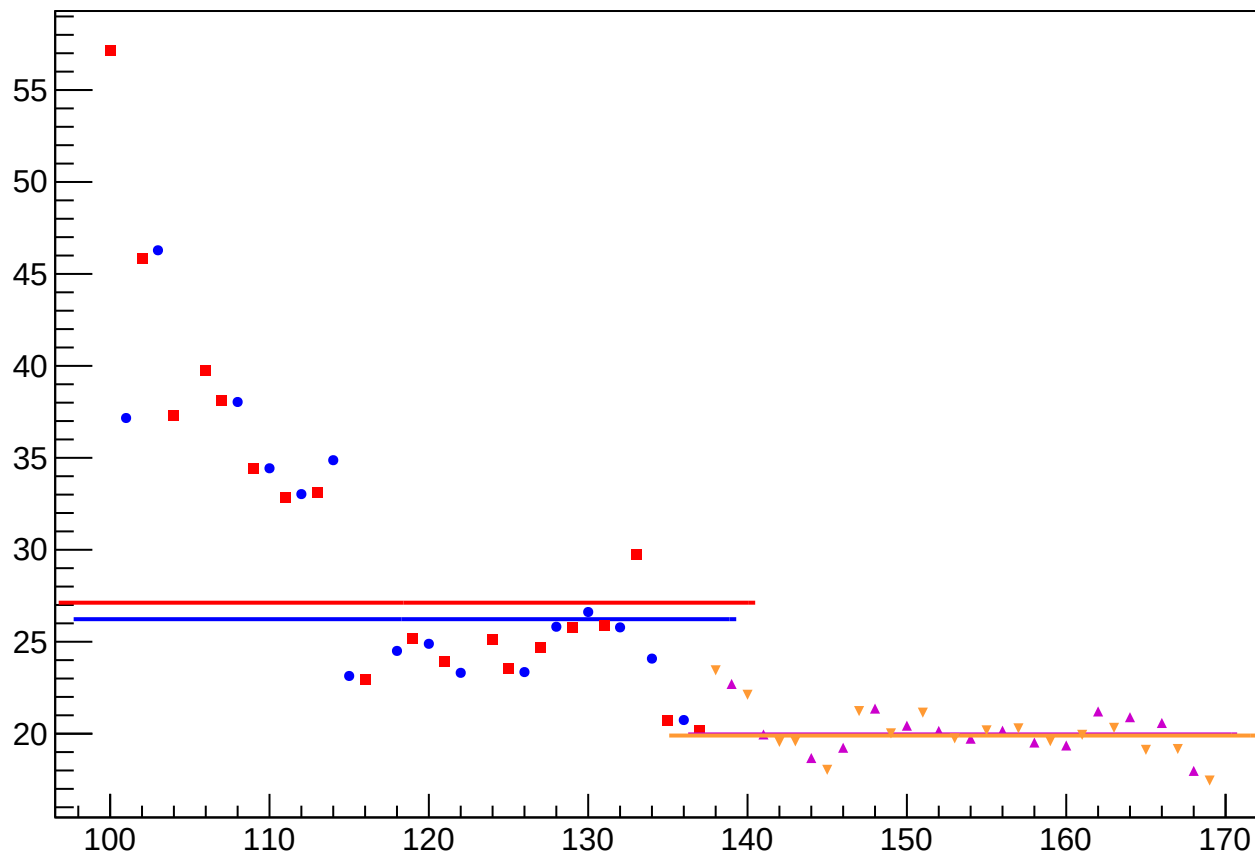
Right: -7.399 ± 7.182 χ^2/NDF : 40.4/34

In: -6.723 ± 4.953 χ^2/NDF : 36.8/30

Out: 3.326 ± 4.816 χ^2/NDF : 39.4/35

All: -1.558 ± 3.453 χ^2/NDF : 78.3/66

cor_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.227 $\pm$ 0.007 χ^2 /NDF: 676029.5/15

Left Out: 19.899 $\pm$ 0.004 χ^2 /NDF: 120585.0/16

Right Out: 27.123 $\pm$ 0.007 χ^2 /NDF: 745675.5/18

Left In: 19.962 $\pm$ 0.004 χ^2 /NDF: 76725.8/14

Left: 19.929 $\pm$ 0.003 χ^2 /NDF: 197436.8/31

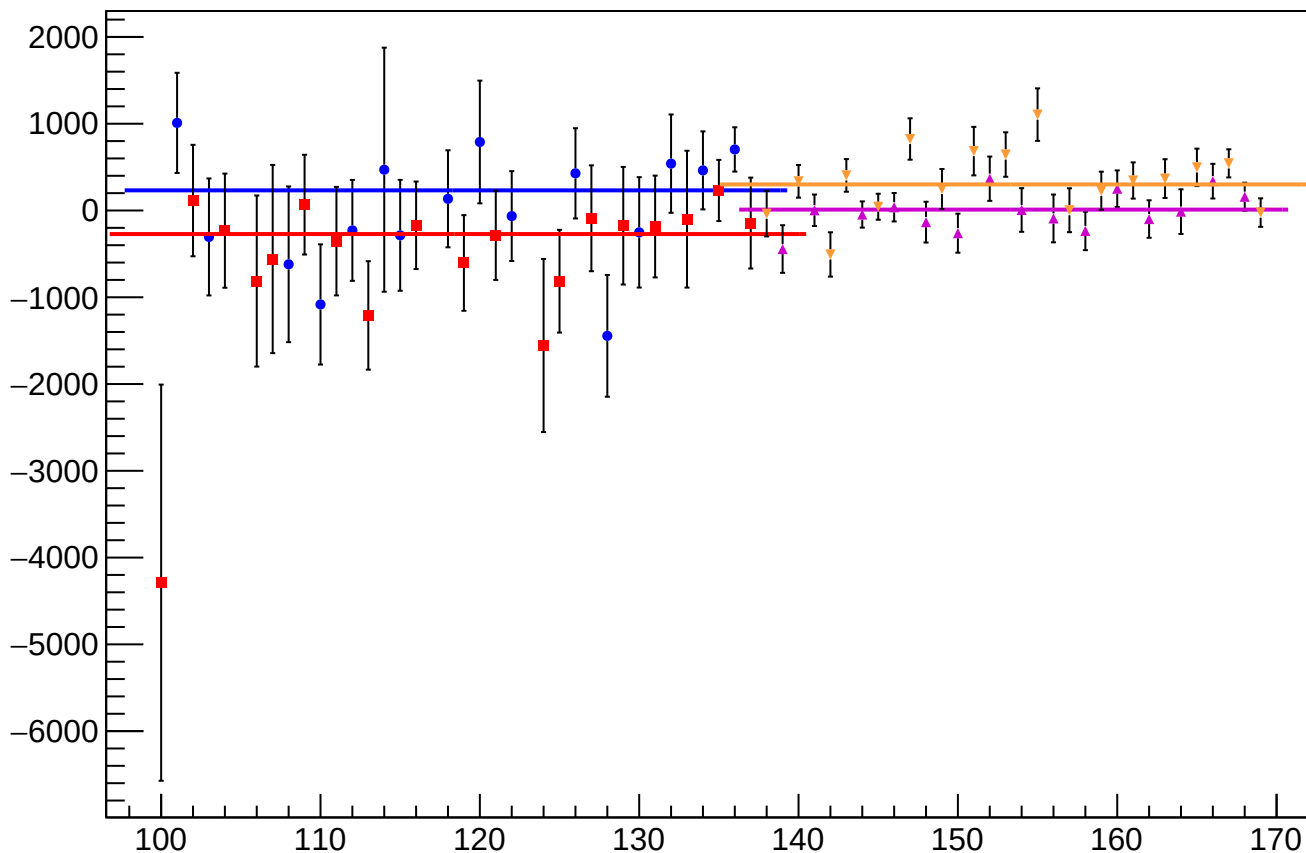
Right: 26.665 $\pm$ 0.005 χ^2 /NDF: 1429493.5/34

In: 21.484 $\pm$ 0.004 χ^2 /NDF: 1341389.5/30

Out: 21.489 $\pm$ 0.003 χ^2 /NDF: 1638344.7/35

All: 21.486 $\pm$ 0.002 χ^2 /NDF: 2979735.0/66

asym_sam_1357_2468_dd_cor_correction_mean vs Slug, Sign Corrected



Right In: 232.084 $\pm$ 134.871 χ^2 /NDF: 19.6/15

Left Out: 300.599 $\pm$ 51.155 χ^2 /NDF:39.2/16

Right Out: -271.412 $\pm$ 140.183 χ^2 /NDF: 11.6/18

Left In: 10.176 $\pm$ 53.474 χ^2 /NDF:13.2/14

Left: 161.822 $\pm$ 36.965 χ^2 /NDF: 67.7/31

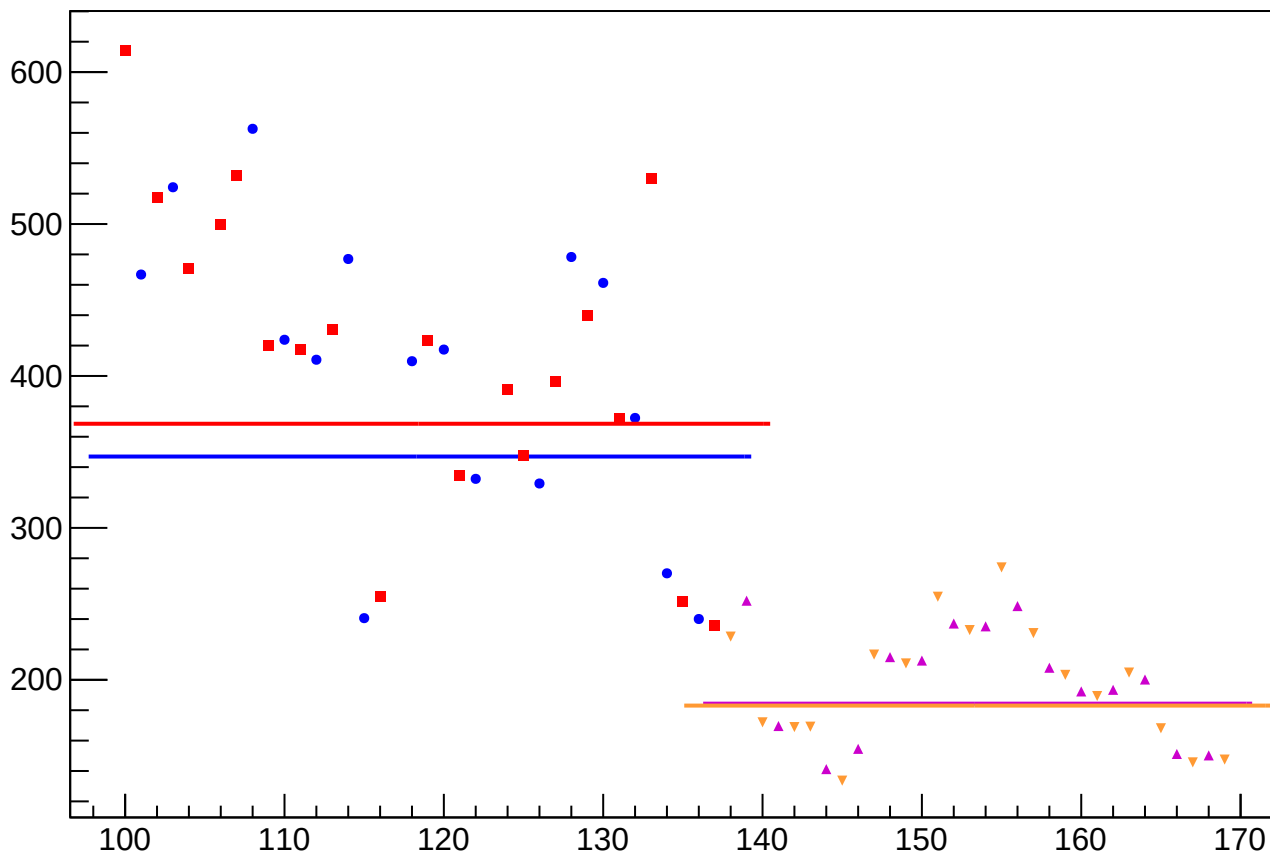
Right: -9.945 $\pm$ 97.192 χ^2 /NDF: 38.0/34

In: 40.321 $\pm$ 49.709 χ^2 /NDF:35.2/30

Out: 233.380 $\pm$ 48.055 χ^2 /NDF:65.5/35

All: 140.116 $\pm$ 34.550 χ^2 /NDF: 108.4/66

asym_sam_1357_2468_dd_cor_correction_rms vs Slug, Sign Corrected



Right In: 346.969 $\pm$ 0.095 χ^2 /NDF: 1058057.4/15

Left Out: 183.047 $\pm$ 0.036 χ^2 /NDF:1075856.8/16

Right Out: 368.543 $\pm$ 0.099 χ^2 /NDF: 900219.6/18

Left In: 184.318 $\pm$ 0.038 χ^2 /NDF:886100.8/14

Left: 183.654 $\pm$ 0.026 χ^2 /NDF: 1962546.9/31

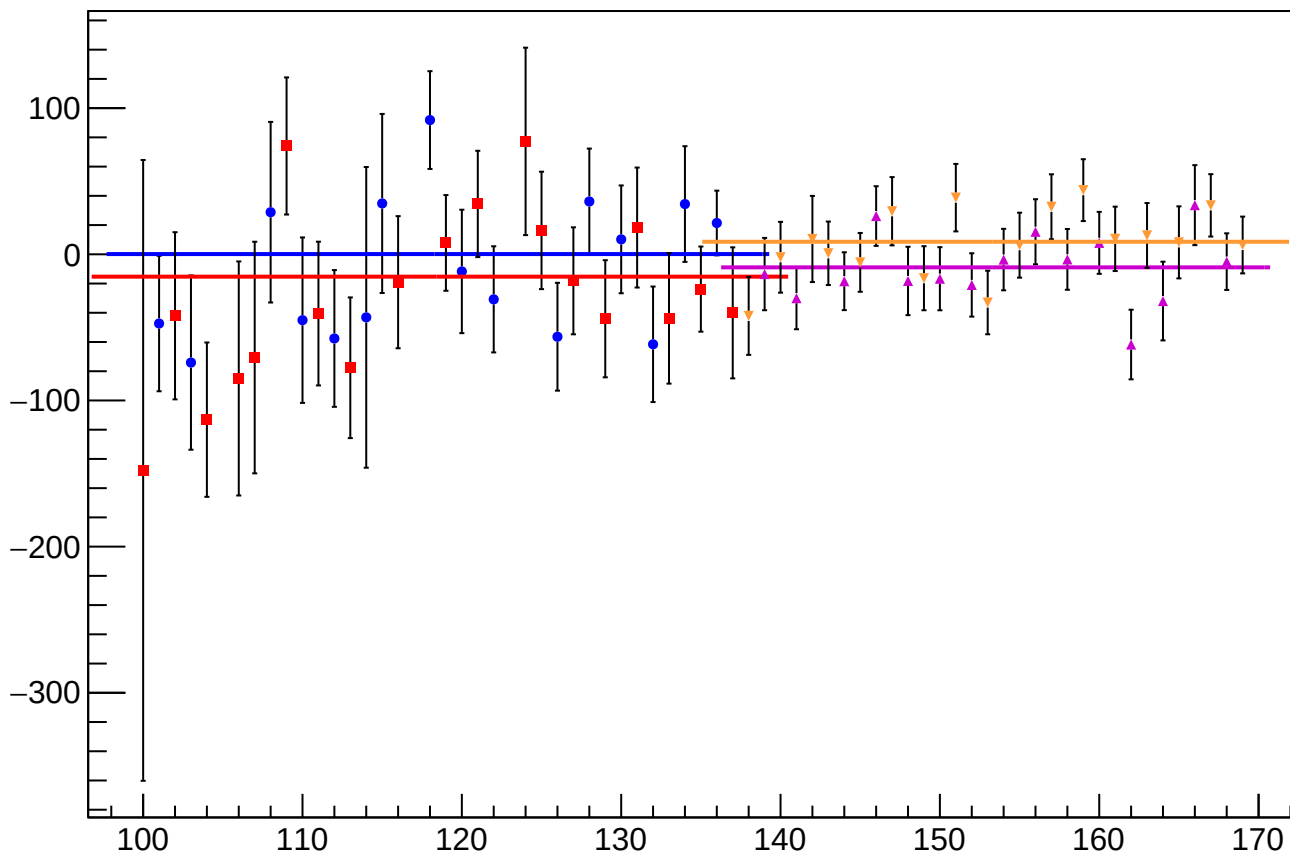
Right: 357.340 $\pm$ 0.069 χ^2 /NDF: 1982876.2/34

In: 206.413 $\pm$ 0.035 χ^2 /NDF:4457793.0/30

Out: 204.846 $\pm$ 0.034 χ^2 /NDF:5066501.1/35

All: 205.603 $\pm$ 0.024 χ^2 /NDF: 9525321.3/66

eigen_cor_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: 0.157 ± 10.048 χ^2/NDF : 21.3/15

Left Out: 8.577 ± 5.453 χ^2/NDF : 17.3/16

Right Out: -15.292 ± 10.269 χ^2/NDF : 17.9/18

Left In: -8.931 ± 5.692 χ^2/NDF : 14.9/14

Left: 0.198 ± 3.938 χ^2/NDF : 37.1/31

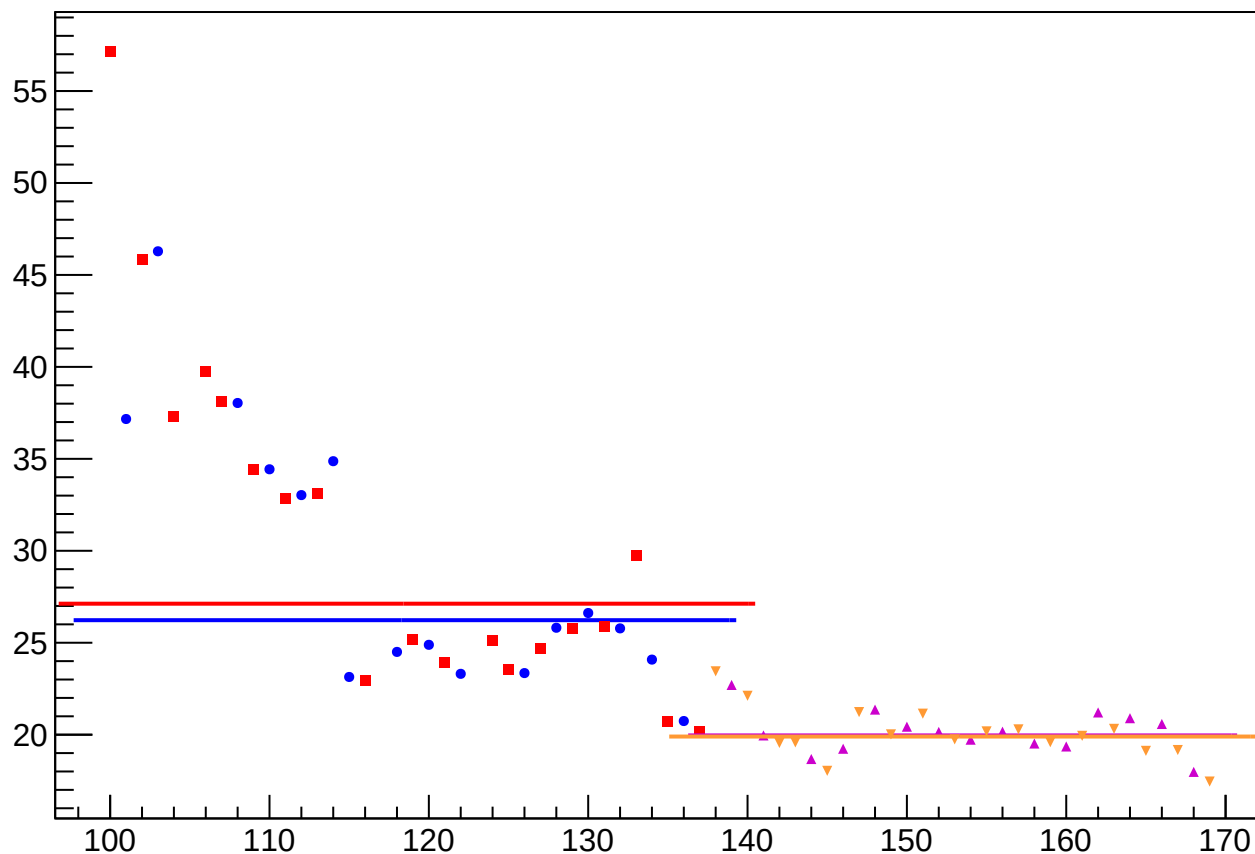
Right: -7.399 ± 7.182 χ^2/NDF : 40.4/34

In: -6.723 ± 4.953 χ^2/NDF : 36.8/30

Out: 3.326 ± 4.816 χ^2/NDF : 39.4/35

All: -1.558 ± 3.453 χ^2/NDF : 78.3/66

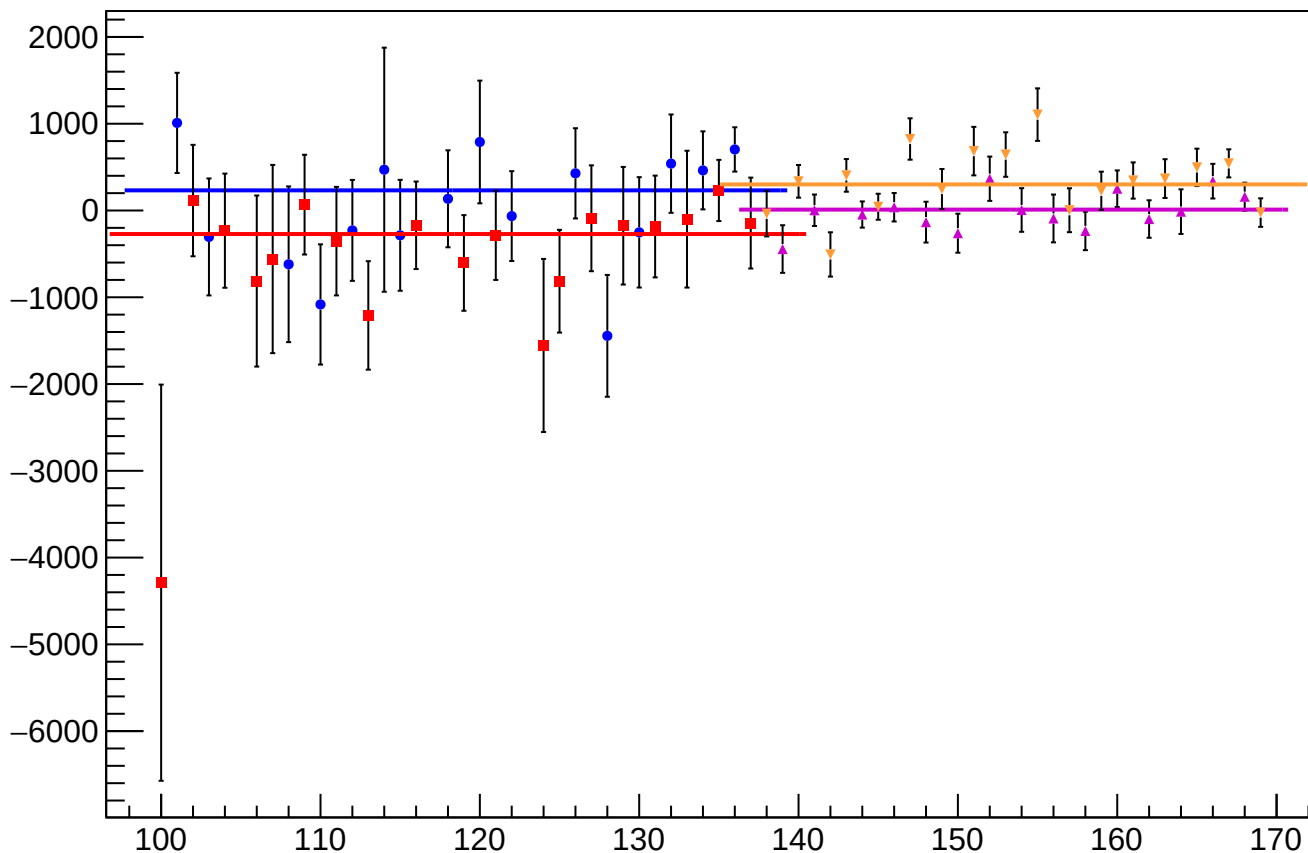
eigen_cor_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 26.227+/-0.007 χ^2/NDF : 676029.5/15
 Left Out: 19.899+/-0.004 χ^2/NDF :120585.0/16
 Right Out: 27.123+/-0.007 χ^2/NDF : 745675.5/18
 Left In: 19.962+/-0.004 χ^2/NDF :76725.8/14

Left: 19.929+/-0.003 χ^2/NDF : 197436.8/31
 Right: 26.665+/-0.005 χ^2/NDF : 1429493.5/34
 In: 21.484+/-0.004 χ^2/NDF :1341389.5/30
 Out: 21.489+/-0.003 χ^2/NDF :1638344.7/35
 All: 21.486+/-0.002 χ^2/NDF : 2979735.0/66

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: 232.084 $\pm$ 134.871 χ^2 /NDF: 19.6/15

Left Out: 300.599 $\pm$ 51.155 χ^2 /NDF:39.2/16

Right Out: -271.412 $\pm$ 140.183 χ^2 /NDF: 11.6/18

Left In: 10.176 $\pm$ 53.474 χ^2 /NDF:13.2/14

Left: 161.822 $\pm$ 36.965 χ^2 /NDF: 67.7/31

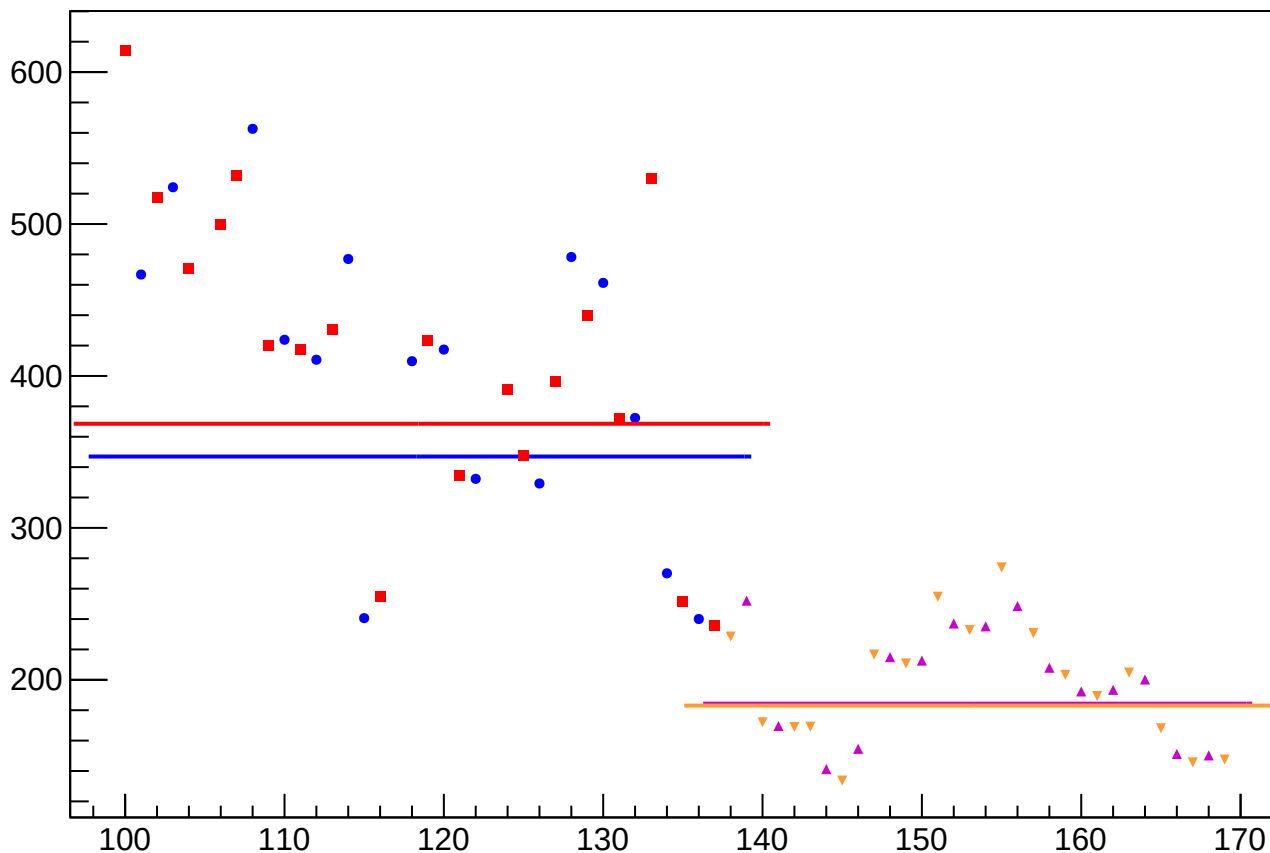
Right: -9.945 $\pm$ 97.192 χ^2 /NDF: 38.0/34

In: 40.321 $\pm$ 49.709 χ^2 /NDF:35.2/30

Out: 233.380 $\pm$ 48.055 χ^2 /NDF:65.5/35

All: 140.116 $\pm$ 34.550 χ^2 /NDF: 108.4/66

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 346.969 ± 0.095 χ^2/NDF : 1058057.4/15

Left Out: 183.047 ± 0.036 χ^2/NDF : 1075856.8/16

Right Out: 368.543 ± 0.099 χ^2/NDF : 900219.6/18

Left In: 184.318 ± 0.038 χ^2/NDF : 886100.8/14

Left: 183.654 ± 0.026 χ^2/NDF : 1962546.9/31

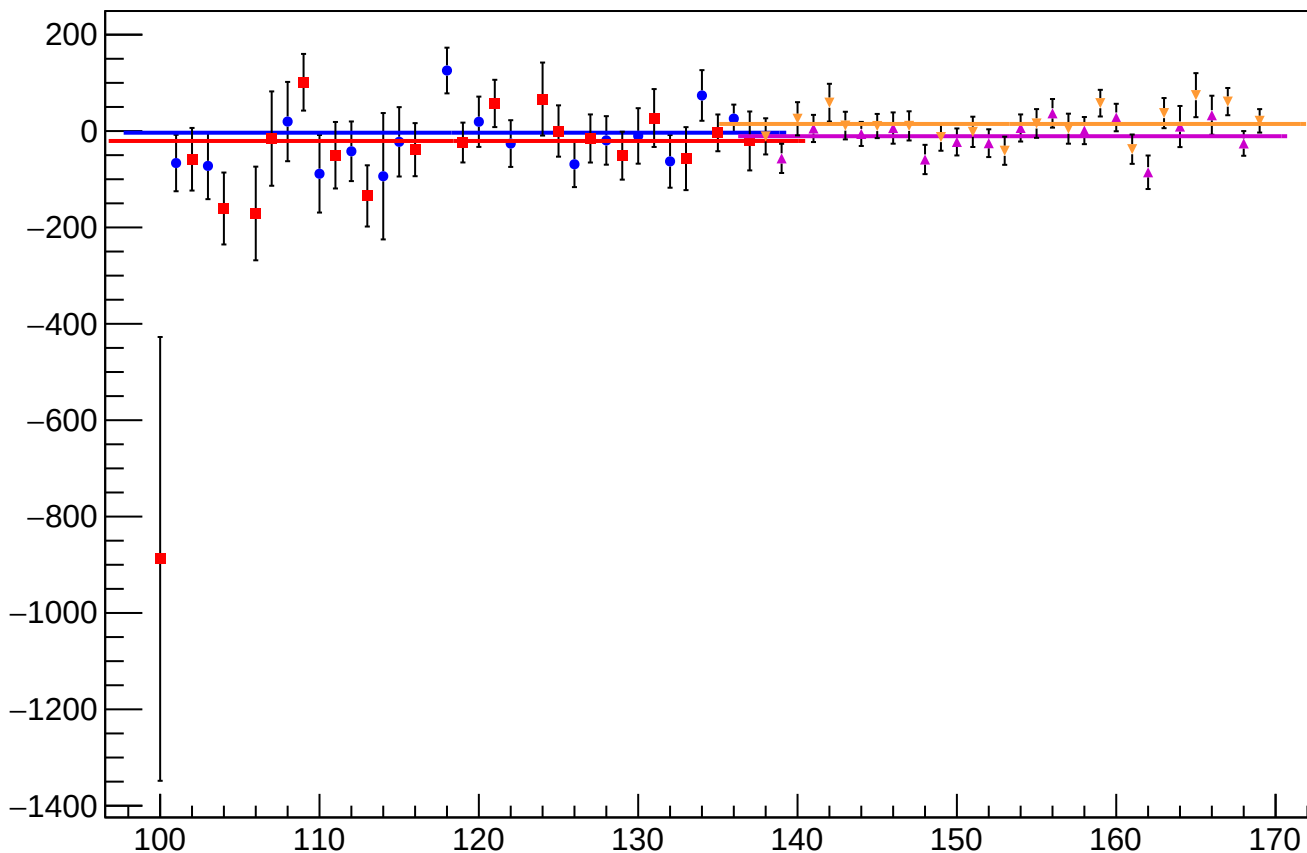
Right: 357.340 ± 0.069 χ^2/NDF : 1982876.2/34

In: 206.413 ± 0.035 χ^2/NDF : 4457793.0/30

Out: 204.846 ± 0.034 χ^2/NDF : 5066501.1/35

All: 205.603 ± 0.024 χ^2/NDF : 9525321.3/66

dit_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -3.423 ± 13.393 $\chi^2/\text{NDF}: 18.5/15$

Left Out: 14.741 ± 7.351 $\chi^2/\text{NDF}: 17.2/16$

Right Out: -20.569 ± 13.475 $\chi^2/\text{NDF}: 23.1/18$

Left In: -10.701 ± 7.700 $\chi^2/\text{NDF}: 17.2/14$

Left: 2.610 ± 5.317 $\chi^2/\text{NDF}: 40.1/31$

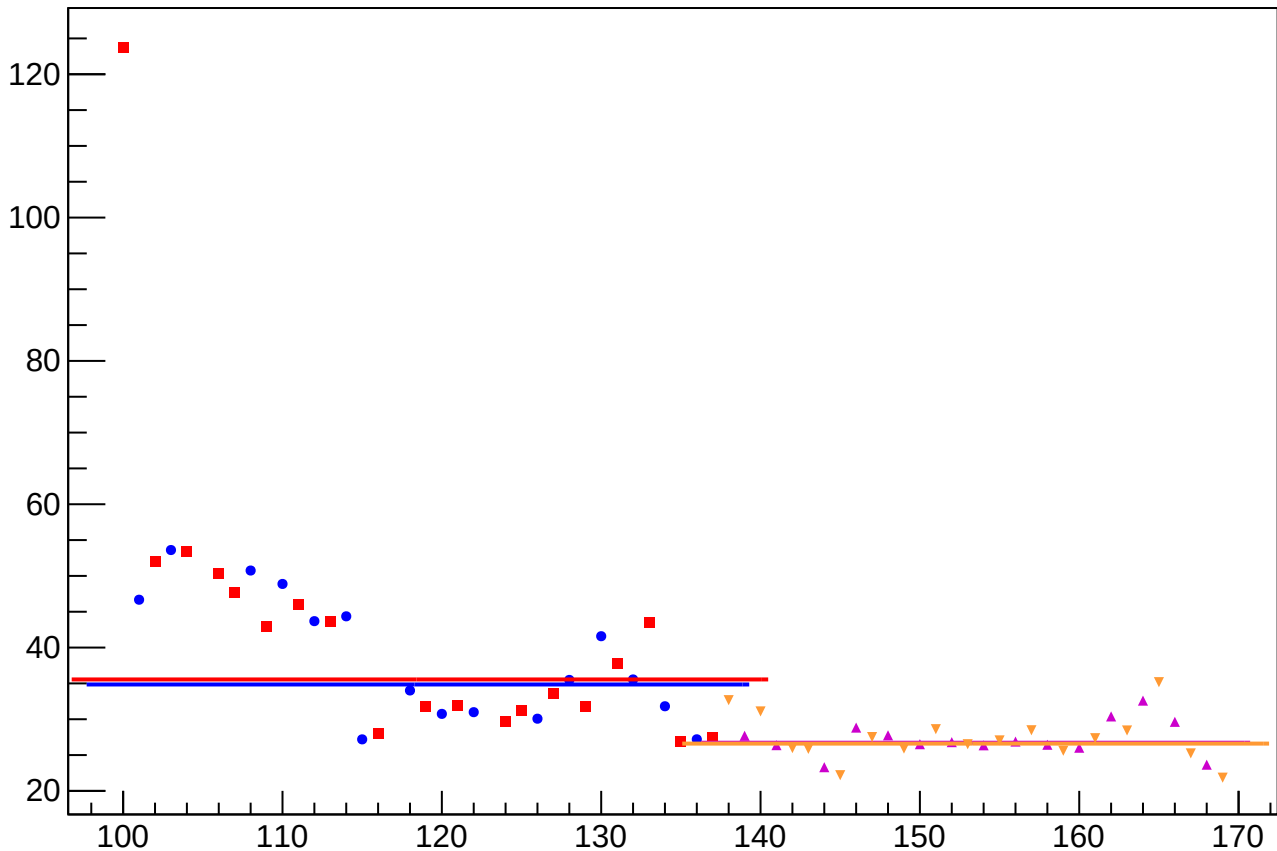
Right: -11.944 ± 9.499 $\chi^2/\text{NDF}: 42.4/34$

In: -8.893 ± 6.675 $\chi^2/\text{NDF}: 35.9/30$

Out: 6.643 ± 6.453 $\chi^2/\text{NDF}: 45.6/35$

All: -0.862 ± 4.640 $\chi^2/\text{NDF}: 84.3/66$

dit_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 34.850 $\pm$ 0.009 χ^2 /NDF: 658141.6/15

Left Out: 26.601 $\pm$ 0.005 χ^2 /NDF:330500.9/16

Right Out: 35.553 $\pm$ 0.010 χ^2 /NDF: 779880.3/18

Left In: 26.724 $\pm$ 0.005 χ^2 /NDF:151619.9/14

Left: 26.659 $\pm$ 0.004 χ^2 /NDF: 482388.3/31

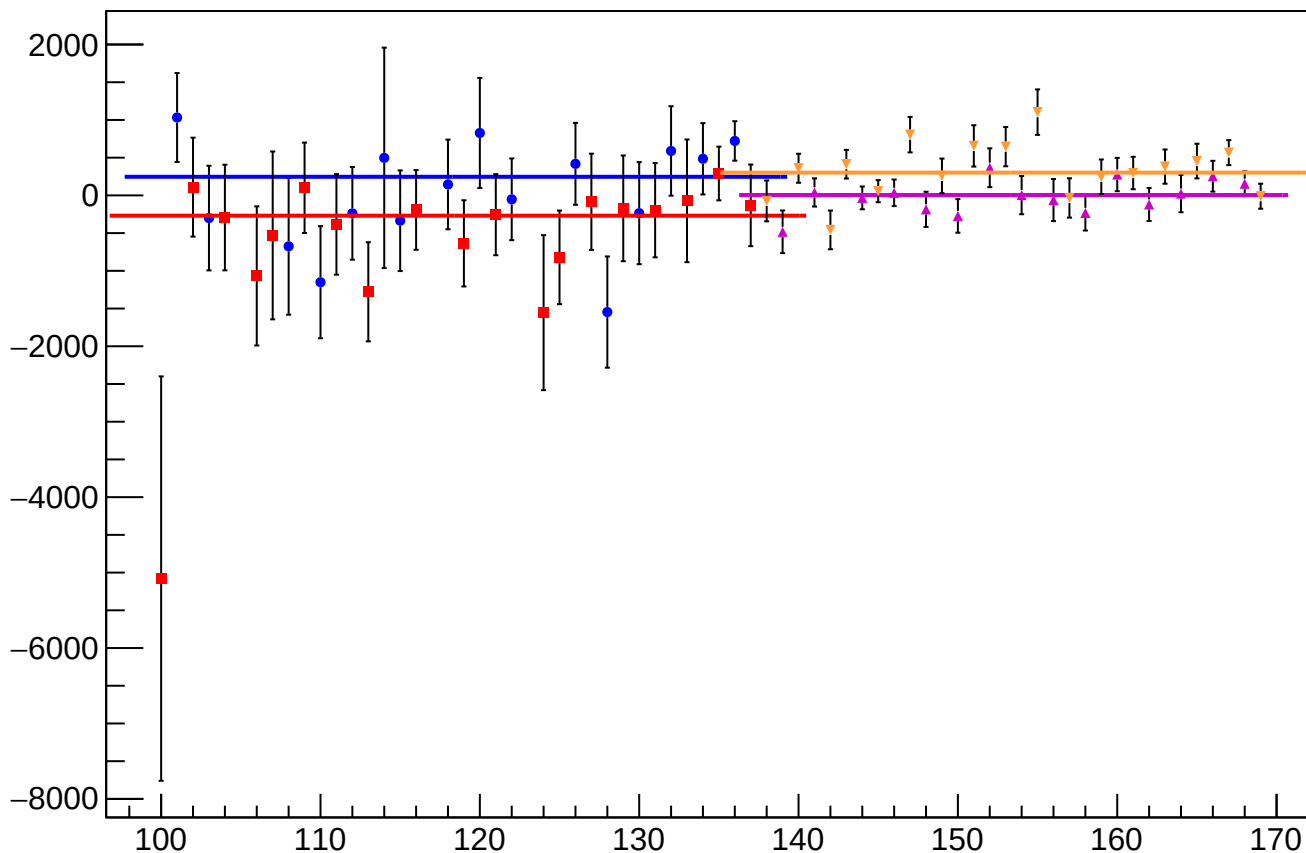
Right: 35.200 $\pm$ 0.007 χ^2 /NDF: 1440755.9/34

In: 28.743 $\pm$ 0.005 χ^2 /NDF:1363246.7/30

Out: 28.654 $\pm$ 0.005 χ^2 /NDF:1790726.8/35

All: 28.697 $\pm$ 0.003 χ^2 /NDF: 3154157.6/66

asym_sam_1357_2468_dd_dit_correction_mean vs Slug, Sign Corrected



Right In: 246.507 ± 140.275 χ^2/NDF : 19.8/15

Left Out: 301.933 ± 51.761 χ^2/NDF : 37.5/16

Right Out: -268.913 ± 145.295 χ^2/NDF : 12.6/18

Left In: 4.976 ± 54.539 χ^2/NDF : 12.5/14

Left: 161.210 ± 37.544 χ^2/NDF : 65.6/31

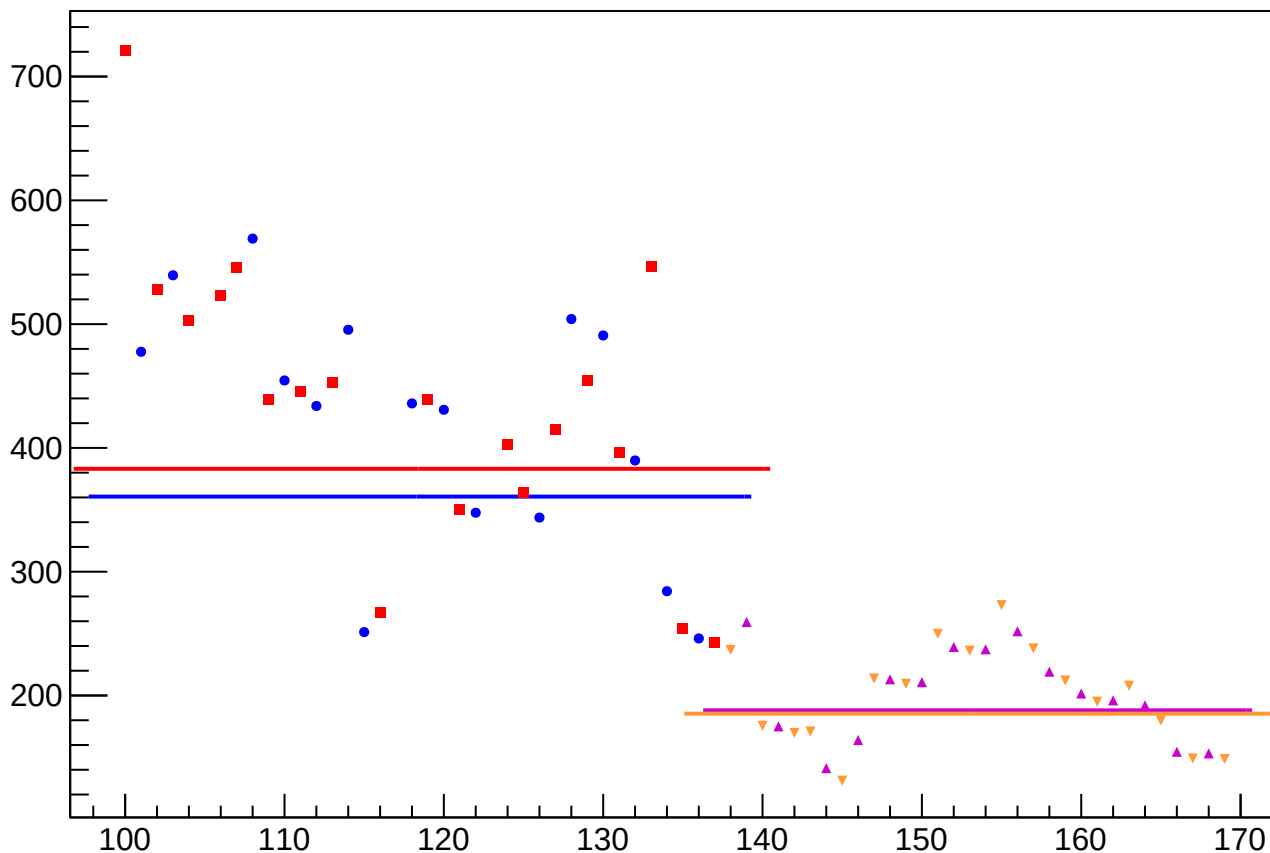
Right: -2.144 ± 100.917 χ^2/NDF : 38.9/34

In: 36.693 ± 50.832 χ^2/NDF : 34.9/30

Out: 237.644 ± 48.759 χ^2/NDF : 63.8/35

All: 141.349 ± 35.188 χ^2/NDF : 106.8/66

asym_sam_1357_2468_dd_dit_correction_rms vs Slug, Sign Corrected



Right In: 360.692 $\pm$ 0.099 χ^2 /NDF: 1092760.6/15

Left Out: 185.303 $\pm$ 0.037 χ^2 /NDF:1104982.5/16

Right Out: 383.132 $\pm$ 0.103 χ^2 /NDF: 963125.0/18

Left In: 187.995 $\pm$ 0.039 χ^2 /NDF:858393.1/14

Left: 186.579 $\pm$ 0.027 χ^2 /NDF: 1965939.0/31

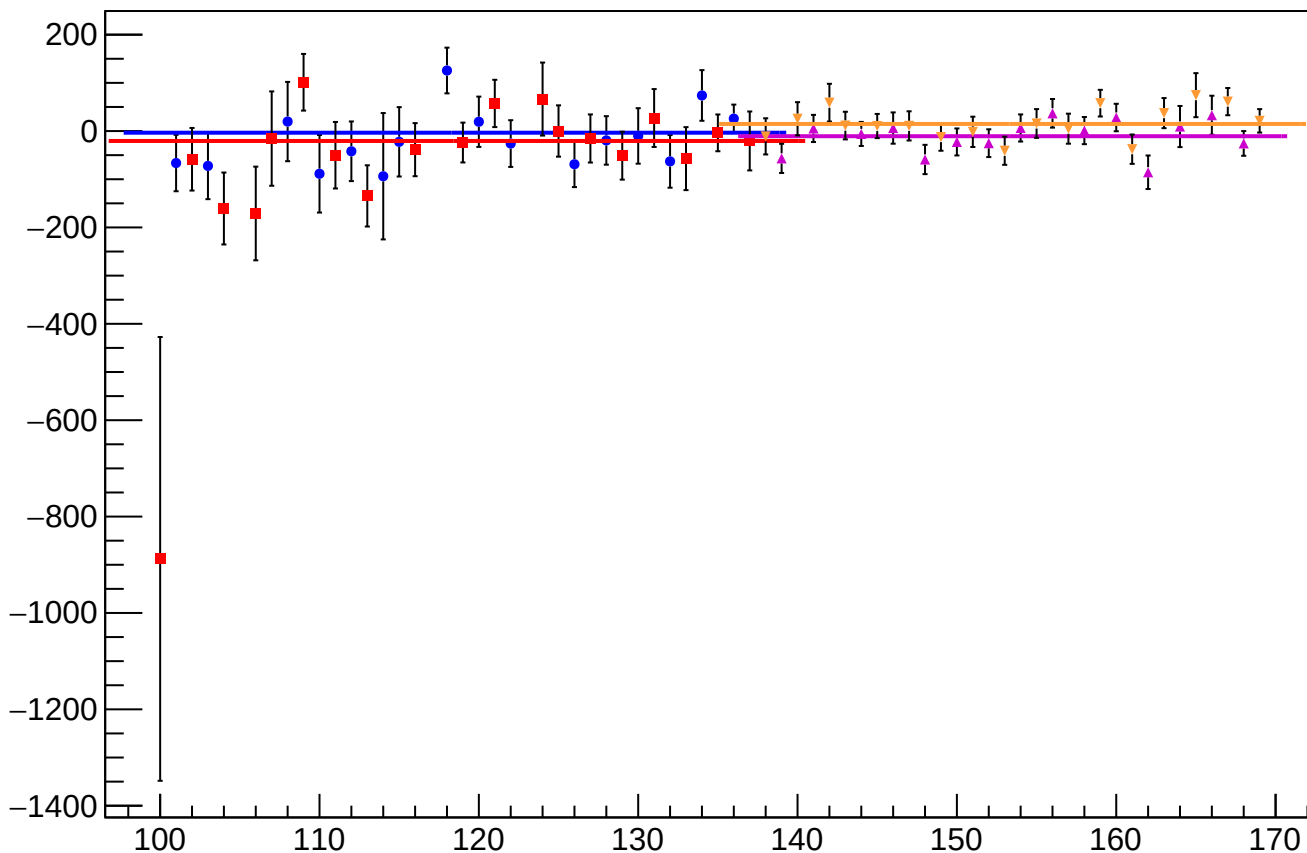
Right: 371.518 $\pm$ 0.071 χ^2 /NDF: 2080575.8/34

In: 210.673 $\pm$ 0.036 χ^2 /NDF:4584460.9/30

Out: 207.583 $\pm$ 0.034 χ^2 /NDF:5358236.1/35

All: 209.064 $\pm$ 0.025 χ^2 /NDF: 9946547.5/66

eigen_dit_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -3.425 ± 13.392 $\chi^2/\text{NDF}: 18.5/15$

Left Out: 14.741 ± 7.351 $\chi^2/\text{NDF}: 17.2/16$

Right Out: -20.569 ± 13.475 $\chi^2/\text{NDF}: 23.1/18$

Left In: -10.701 ± 7.700 $\chi^2/\text{NDF}: 17.2/14$

Left: 2.611 ± 5.317 $\chi^2/\text{NDF}: 40.1/31$

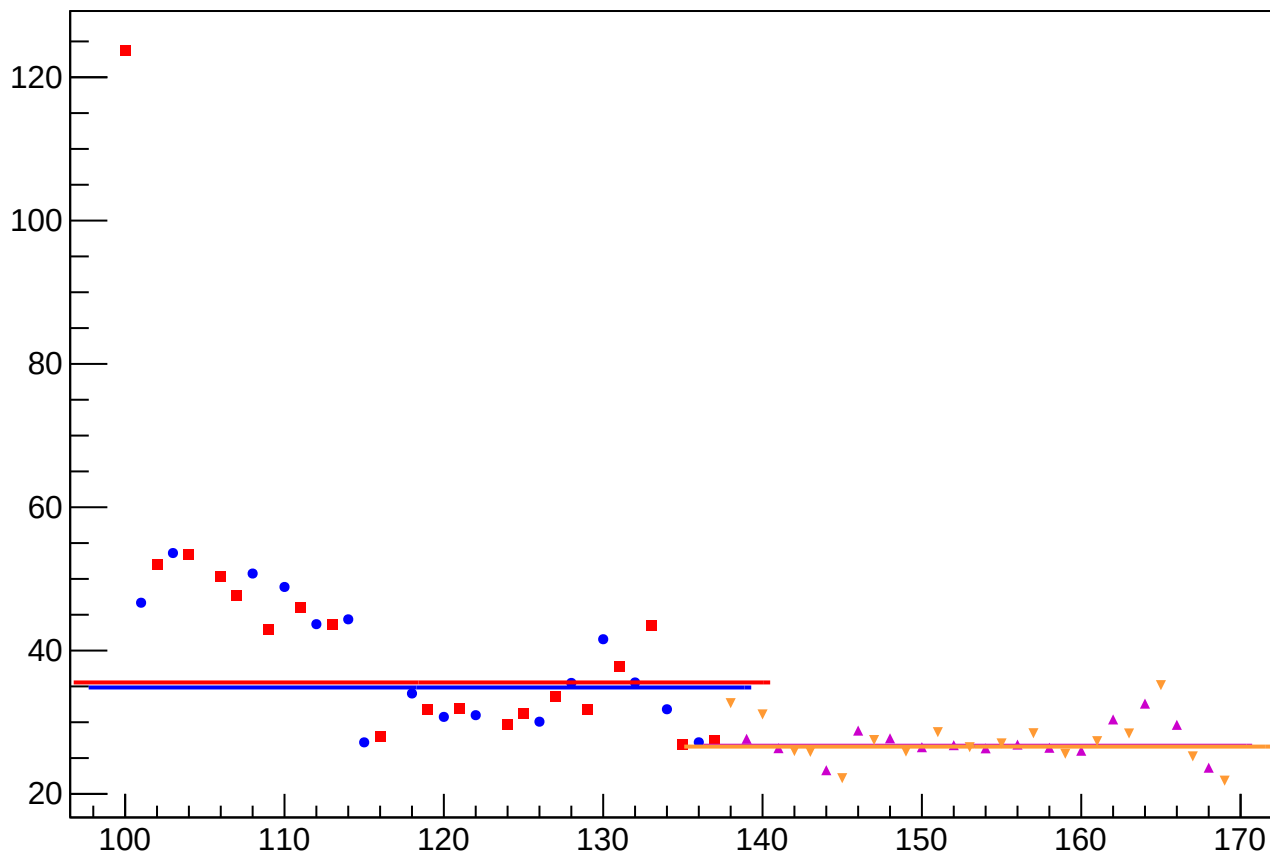
Right: -11.944 ± 9.499 $\chi^2/\text{NDF}: 42.4/34$

In: -8.893 ± 6.675 $\chi^2/\text{NDF}: 35.9/30$

Out: 6.643 ± 6.453 $\chi^2/\text{NDF}: 45.6/35$

All: -0.862 ± 4.640 $\chi^2/\text{NDF}: 84.3/66$

eigen_dit_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 34.850+/-0.009 χ^2/NDF : 658089.6/15

Left Out: 26.601+/-0.005 χ^2/NDF : 330488.0/16

Right Out: 35.552+/-0.010 χ^2/NDF : 779849.4/18

Left In: 26.724+/-0.005 χ^2/NDF : 151619.3/14

Left: 26.659+/-0.004 χ^2/NDF : 482374.6/31

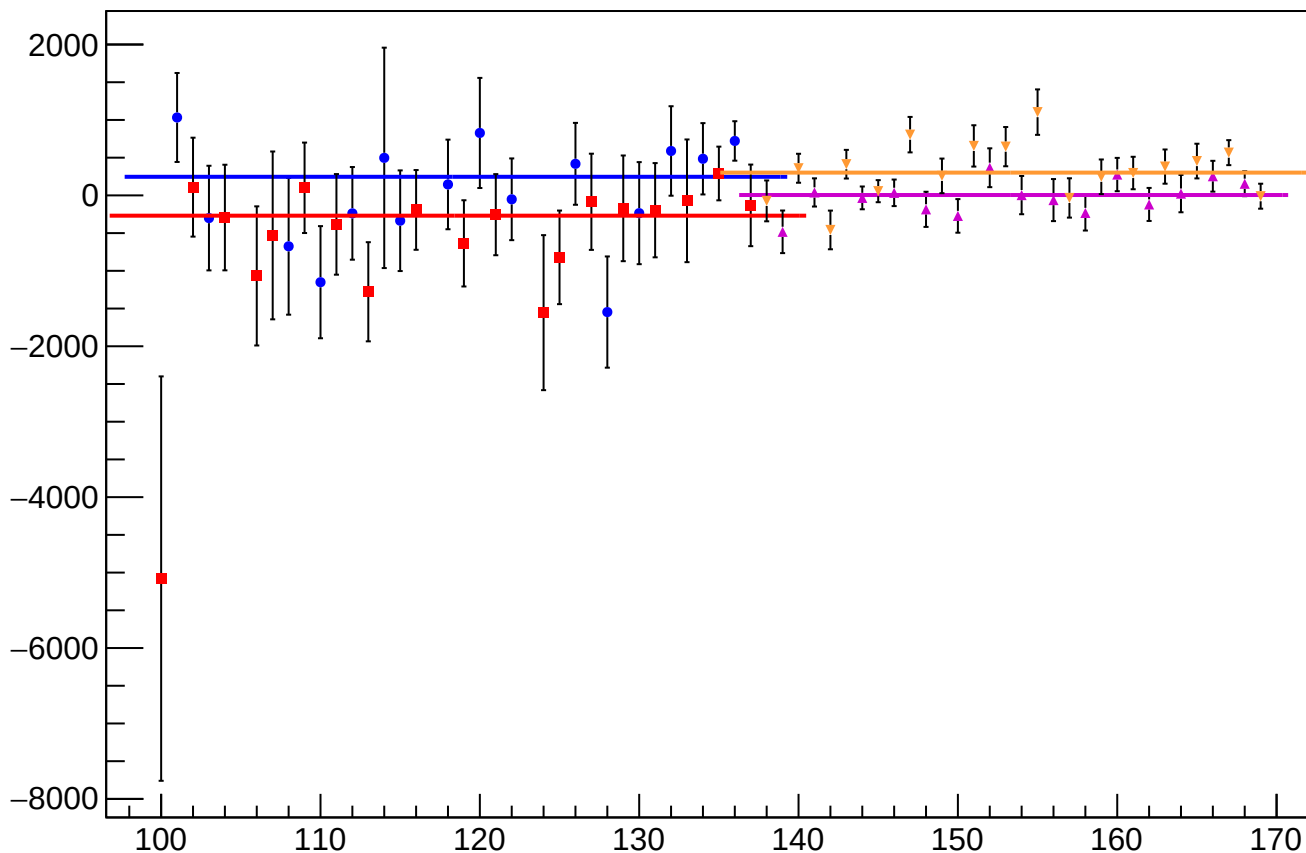
Right: 35.199+/-0.007 χ^2/NDF : 1440673.9/34

In: 28.743+/-0.005 χ^2/NDF : 1363130.4/30

Out: 28.654+/-0.005 χ^2/NDF : 1790619.6/35

All: 28.697+/-0.003 χ^2/NDF : 3153933.9/66

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: 246.505 $\pm$ 140.274 χ^2 /NDF: 19.8/15

Left Out: 301.932 $\pm$ 51.761 χ^2 /NDF:37.5/16

Right Out: -268.913 $\pm$ 145.295 χ^2 /NDF: 12.6/18

Left In: 4.976 $\pm$ 54.539 χ^2 /NDF:12.5/14

Left: 161.210 $\pm$ 37.544 χ^2 /NDF: 65.6/31

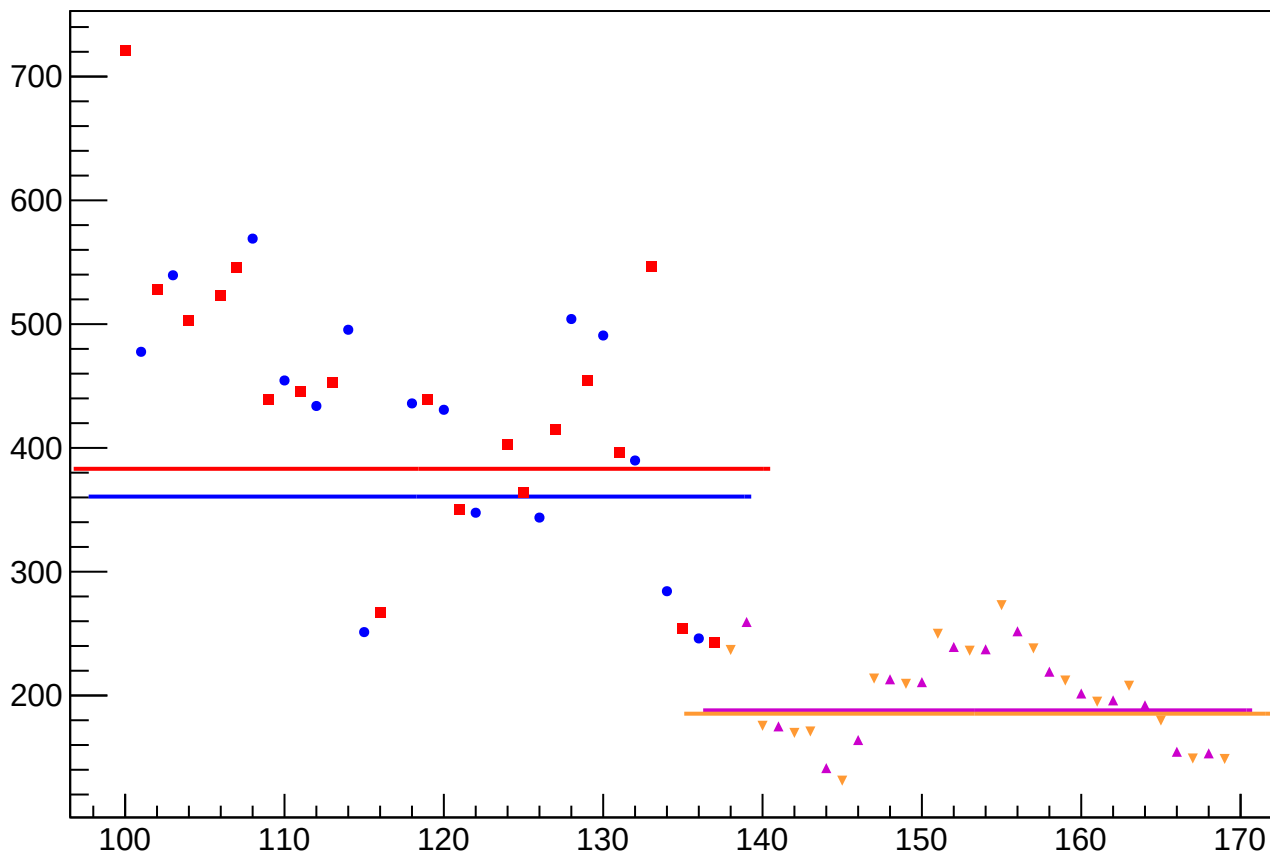
Right: -2.145 $\pm$ 100.917 χ^2 /NDF: 38.9/34

In: 36.693 $\pm$ 50.832 χ^2 /NDF:34.9/30

Out: 237.643 $\pm$ 48.759 χ^2 /NDF:63.8/35

All: 141.349 $\pm$ 35.188 χ^2 /NDF: 106.8/66

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 360.691+/-0.099 χ^2/NDF : 1092752.5/15

Left Out: 185.303+/-0.037 χ^2/NDF : 1105011.6/16

Right Out: 383.131+/-0.103 χ^2/NDF : 963120.8/18

Left In: 187.995+/-0.039 χ^2/NDF : 858402.8/14

Left: 186.578+/-0.027 χ^2/NDF : 1965978.2/31

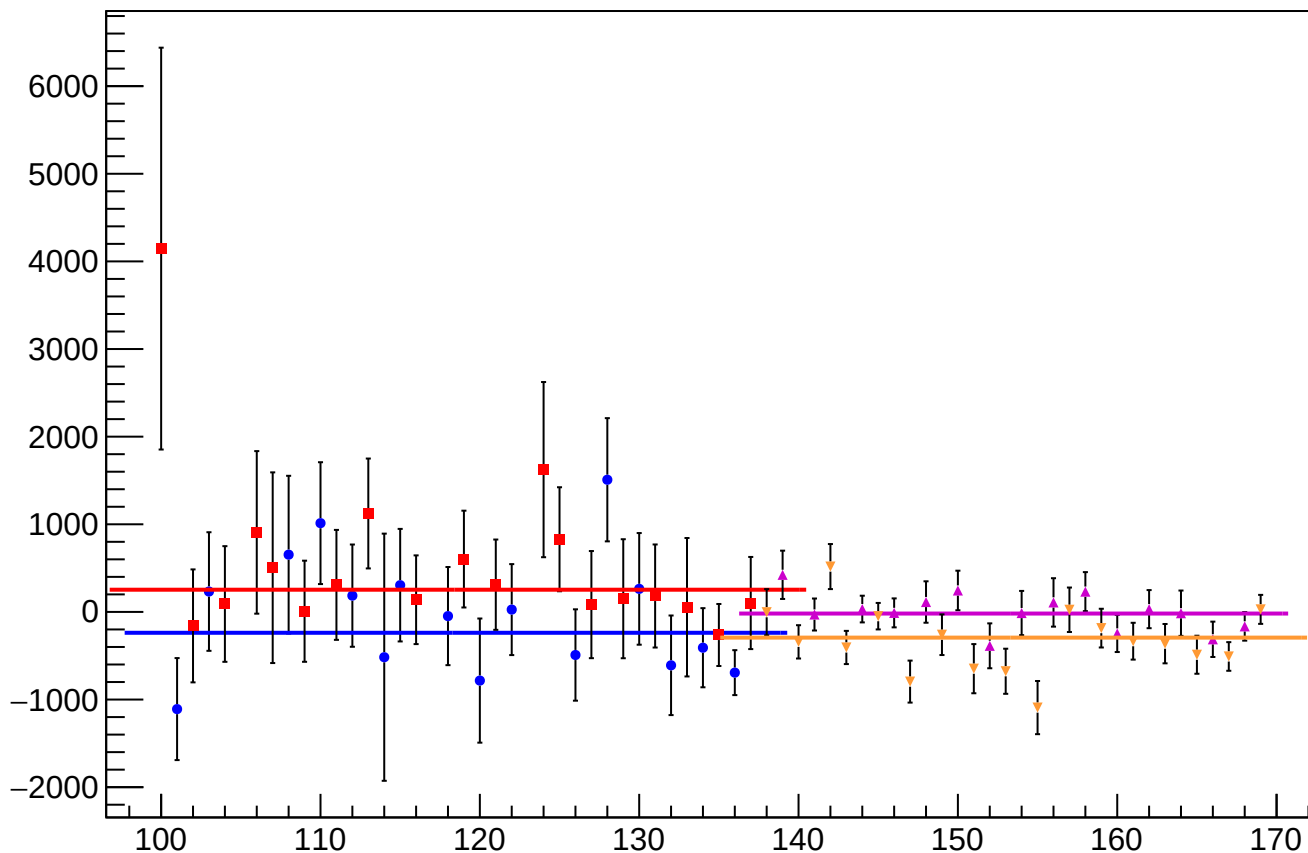
Right: 371.517+/-0.071 χ^2/NDF : 2080563.7/34

In: 210.673+/-0.036 χ^2/NDF : 4584464.2/30

Out: 207.582+/-0.034 χ^2/NDF : 5358271.1/35

All: 209.063+/-0.025 χ^2/NDF : 9946586.5/66

asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected



Right In: -238.043 ± 135.349 χ^2/NDF : 19.9/15

Left Out: -293.234 ± 51.484 χ^2/NDF : 37.6/16

Right Out: 253.445 ± 140.414 χ^2/NDF : 11.7/18

Left In: -18.529 ± 53.819 χ^2/NDF : 12.0/14

Left: -161.971 ± 37.203 χ^2/NDF : 63.3/31

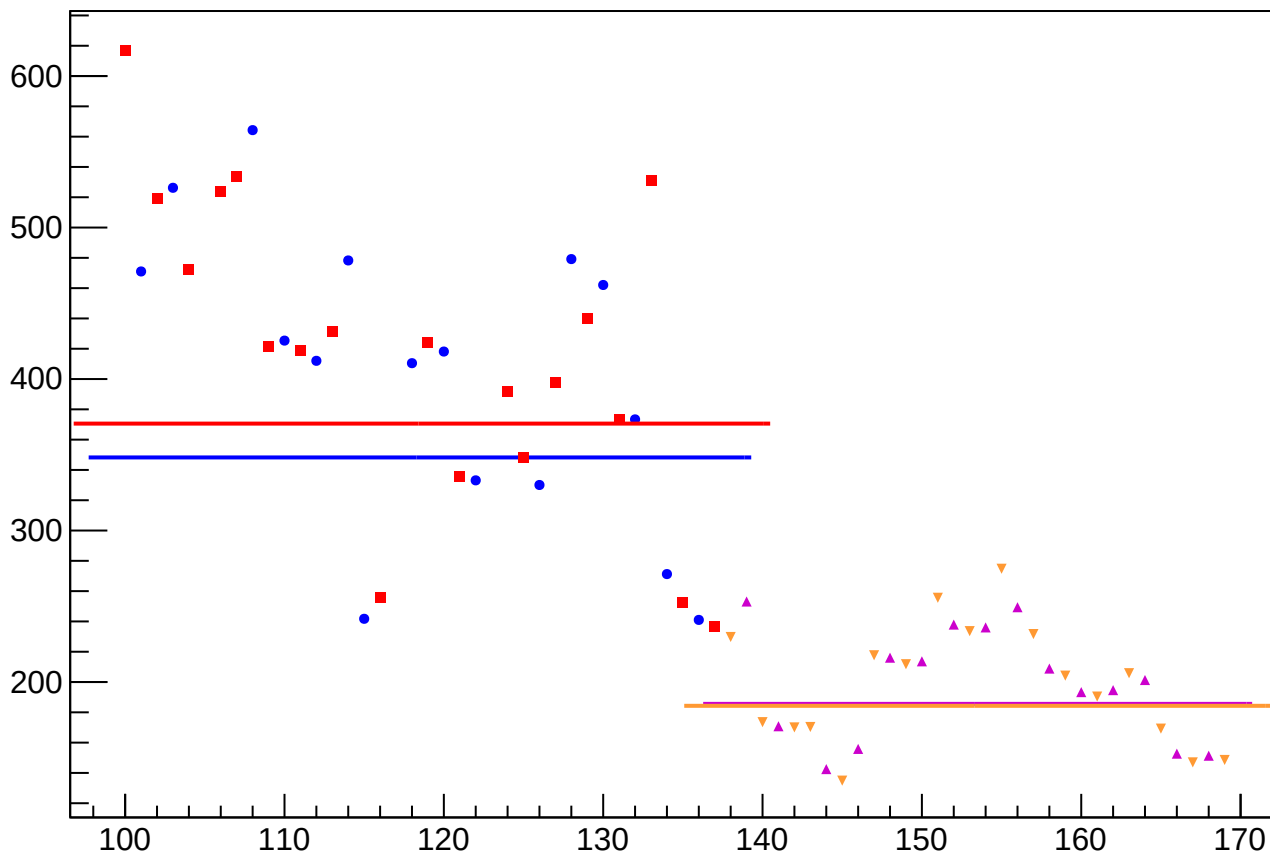
Right: -1.323 ± 97.448 χ^2/NDF : 38.0/34

In: -48.498 ± 50.010 χ^2/NDF : 34.2/30

Out: -228.450 ± 48.337 χ^2/NDF : 62.7/35

All: -141.535 ± 34.756 χ^2/NDF : 103.6/66

asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected



Right In: 348.253 ± 0.096 $\chi^2/\text{NDF}: 1056820.3/15$

Left Out: 184.300 ± 0.036 $\chi^2/\text{NDF}: 1057168.9/16$

Right Out: 370.585 ± 0.099 $\chi^2/\text{NDF}: 917913.5/18$

Left In: 185.581 ± 0.038 $\chi^2/\text{NDF}: 868936.4/14$

Left: 184.912 ± 0.026 $\chi^2/\text{NDF}: 1926697.2/31$

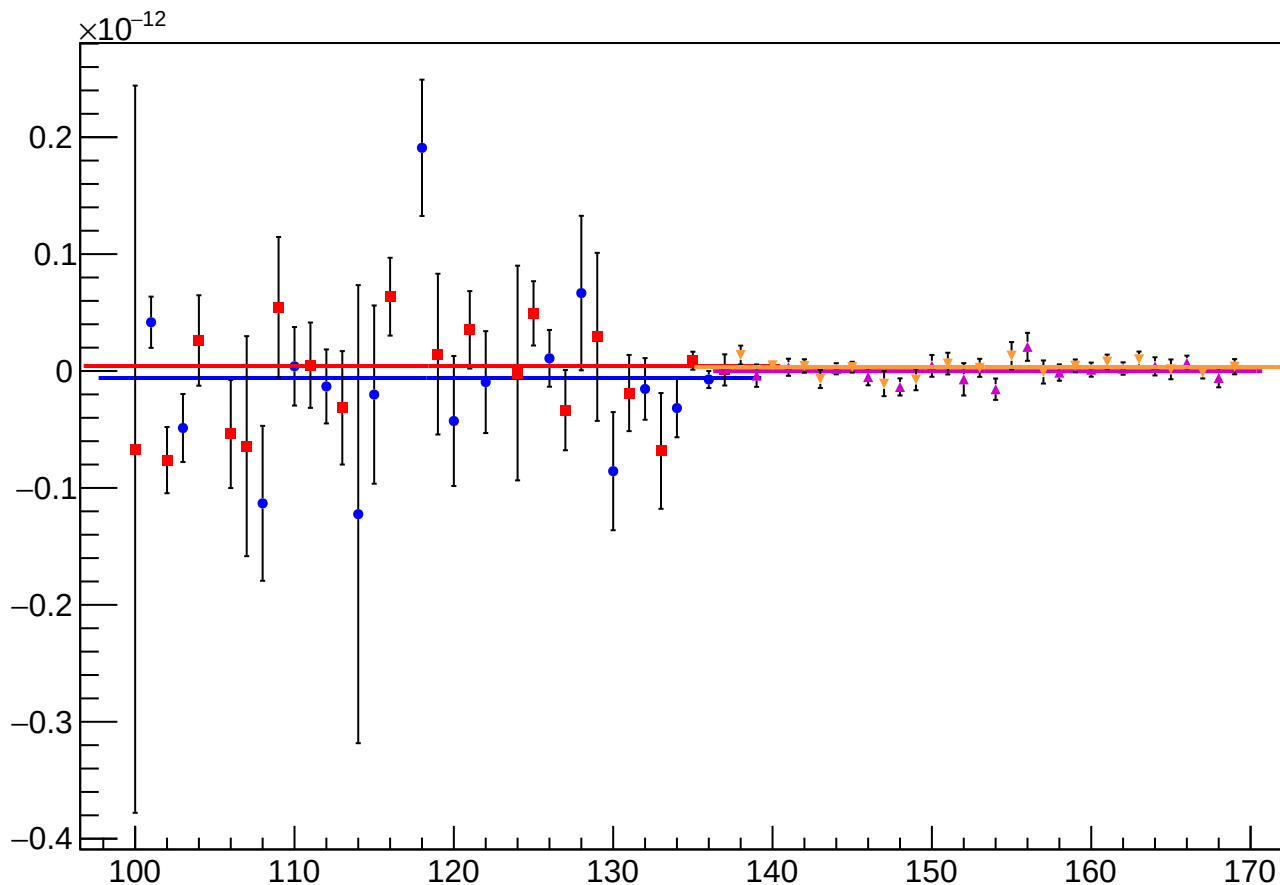
Right: 359.009 ± 0.069 $\chi^2/\text{NDF}: 2000959.8/34$

In: 207.790 ± 0.035 $\chi^2/\text{NDF}: 4420301.9/30$

Out: 206.376 ± 0.034 $\chi^2/\text{NDF}: 5078113.6/35$

All: 207.059 ± 0.025 $\chi^2/\text{NDF}: 9499242.2/66$

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 27.3/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 10.1/16

Right Out: 0.000 ± 0.000 χ^2/NDF : 23.0/18

Left In: -0.000 ± 0.000 χ^2/NDF : 13.1/14

Left: 0.000 ± 0.000 χ^2/NDF : 25.4/31

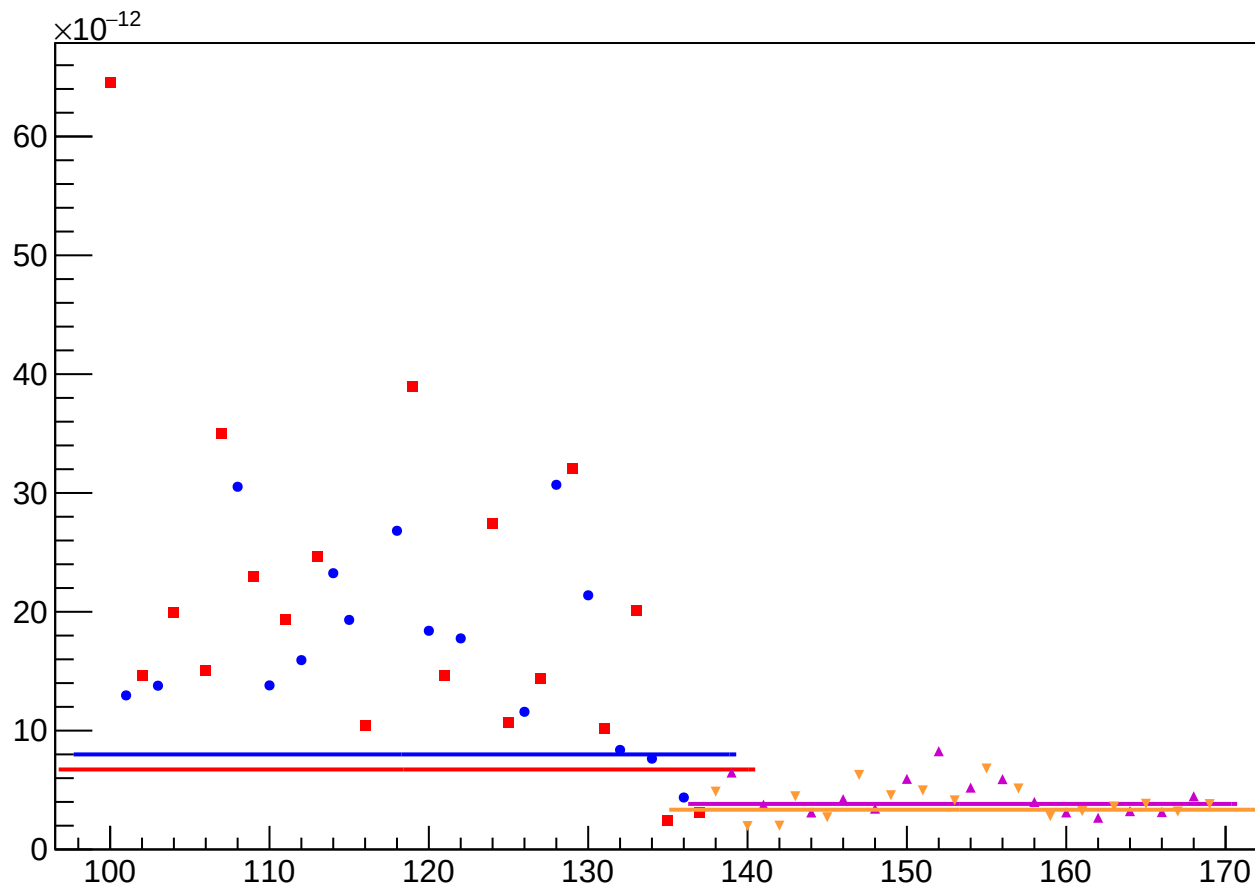
Right: -0.000 ± 0.000 χ^2/NDF : 51.9/34

In: -0.000 ± 0.000 χ^2/NDF : 41.3/30

Out: 0.000 ± 0.000 χ^2/NDF : 33.1/35

All: 0.000 ± 0.000 χ^2/NDF : 77.8/66

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1949755.3/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1044109.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3379574.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 798407.1/14

Left: 0.000+/-0.000 χ^2/NDF : 1921872.5/31

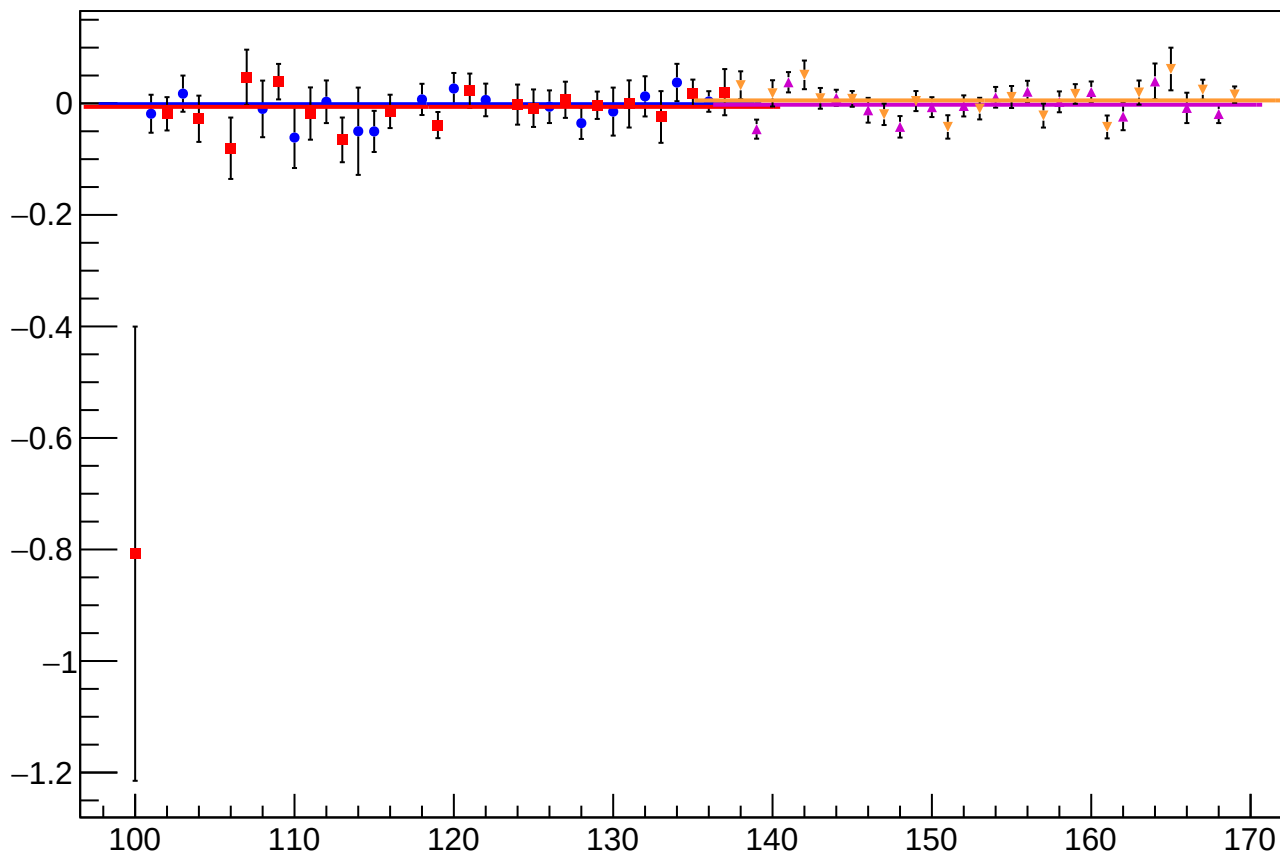
Right: 0.000+/-0.000 χ^2/NDF : 5380161.4/34

In: 0.000+/-0.000 χ^2/NDF : 3717236.6/30

Out: 0.000+/-0.000 χ^2/NDF : 5109909.6/35

All: 0.000+/-0.000 χ^2/NDF : 8974673.8/66

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.001 ± 0.008 χ^2/NDF : 8.3/15

Left Out: 0.005 ± 0.005 χ^2/NDF : 23.9/16

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.002 ± 0.005 χ^2/NDF : 23.7/14

Left: 0.002 ± 0.003 χ^2/NDF : 48.8/31

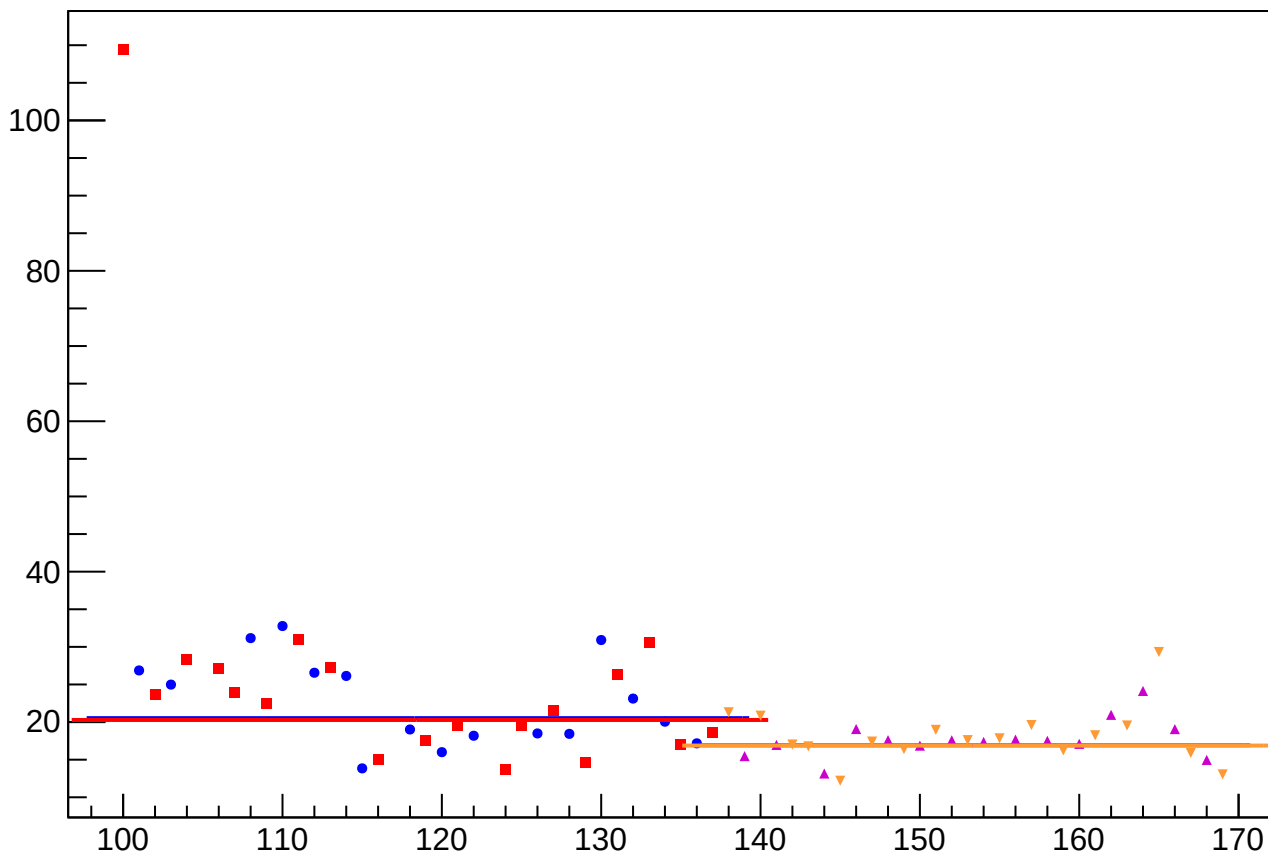
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.002 ± 0.004 χ^2/NDF : 32.0/30

Out: 0.002 ± 0.004 χ^2/NDF : 41.7/35

All: 0.000 ± 0.003 χ^2/NDF : 74.2/66

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.522+/-0.006 χ^2/NDF : 705998.4/15

Left Out: 16.877+/-0.003 χ^2/NDF : 798625.8/16

Right Out: 20.282+/-0.006 χ^2/NDF : 864352.6/18

Left In: 16.916+/-0.003 χ^2/NDF : 376966.5/14

Left: 16.895+/-0.002 χ^2/NDF : 1175658.4/31

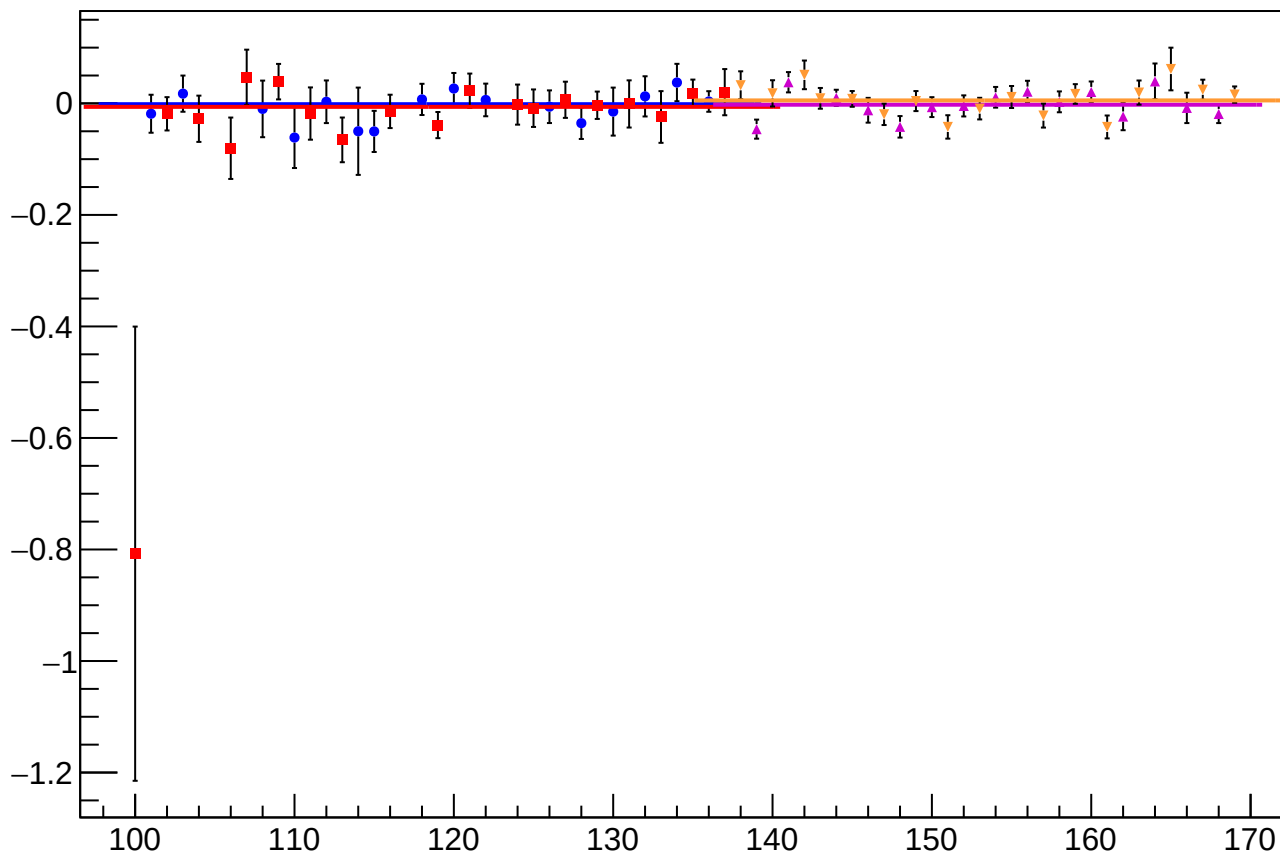
Right: 20.399+/-0.004 χ^2/NDF : 1571258.3/34

In: 17.903+/-0.003 χ^2/NDF : 1373646.4/30

Out: 17.781+/-0.003 χ^2/NDF : 1936970.3/35

All: 17.840+/-0.002 χ^2/NDF : 3311484.4/66

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.001 ± 0.008 χ^2/NDF : 8.3/15

Left Out: 0.005 ± 0.005 χ^2/NDF : 23.9/16

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.002 ± 0.005 χ^2/NDF : 23.7/14

Left: 0.002 ± 0.003 χ^2/NDF : 48.8/31

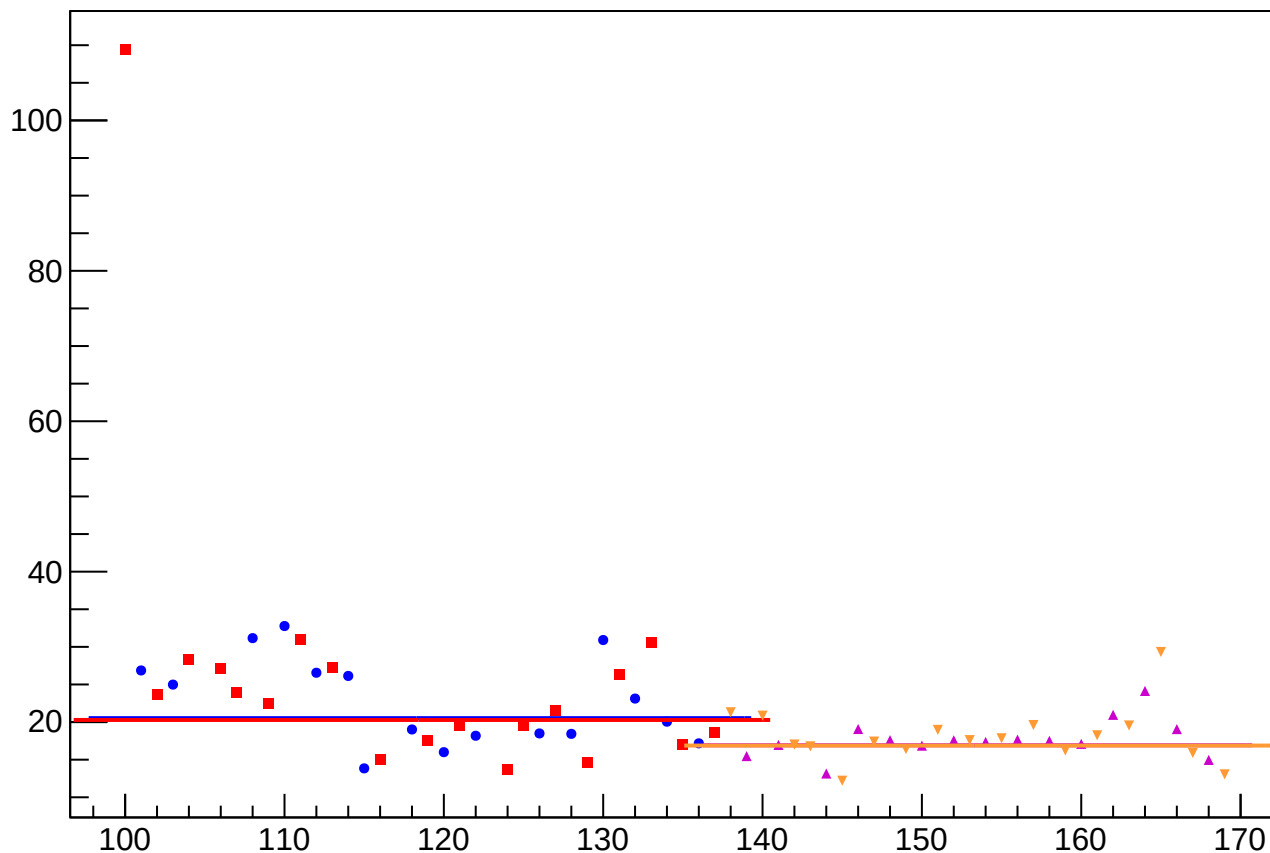
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.002 ± 0.004 χ^2/NDF : 32.0/30

Out: 0.002 ± 0.004 χ^2/NDF : 41.7/35

All: 0.000 ± 0.003 χ^2/NDF : 74.2/66

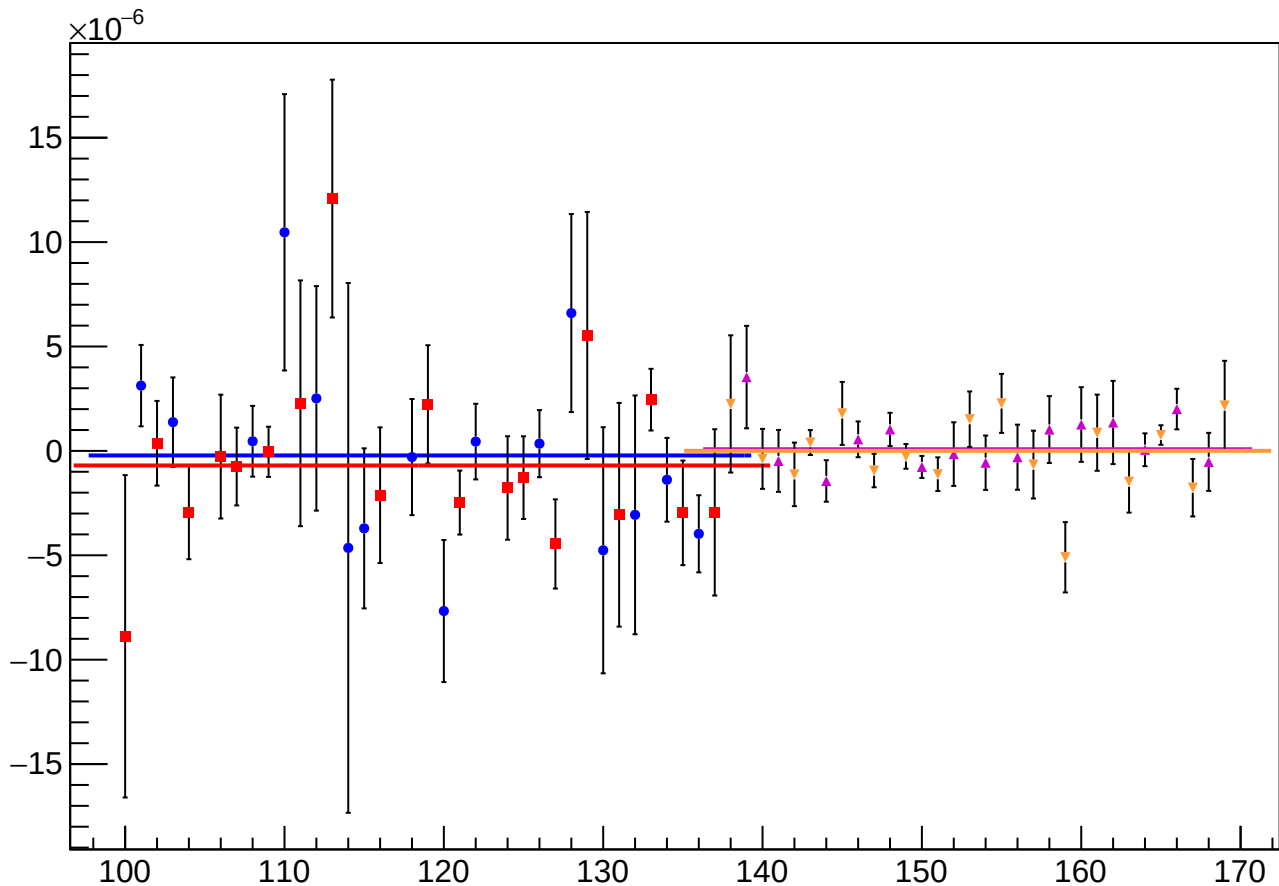
asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.522+/-0.006 χ^2/NDF : 705998.4/15
 Left Out: 16.877+/-0.003 χ^2/NDF : 798625.8/16
 Right Out: 20.282+/-0.006 χ^2/NDF : 864352.6/18
 Left In: 16.916+/-0.003 χ^2/NDF : 376966.5/14

Left: 16.895+/-0.002 χ^2/NDF : 1175658.4/31
 Right: 20.399+/-0.004 χ^2/NDF : 1571258.3/34
 In: 17.903+/-0.003 χ^2/NDF : 1373646.4/30
 Out: 17.781+/-0.003 χ^2/NDF : 1936970.3/35
 All: 17.840+/-0.002 χ^2/NDF : 3311484.4/66

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



Right In: -0.000 ± 0.000 χ^2/NDF : 19.9/15

Left Out: 0.000 ± 0.000 χ^2/NDF : 26.2/16

Right Out: -0.000 ± 0.000 χ^2/NDF : 21.0/18

Left In: 0.000 ± 0.000 χ^2/NDF : 14.4/14

Left: 0.000 ± 0.000 χ^2/NDF : 40.6/31

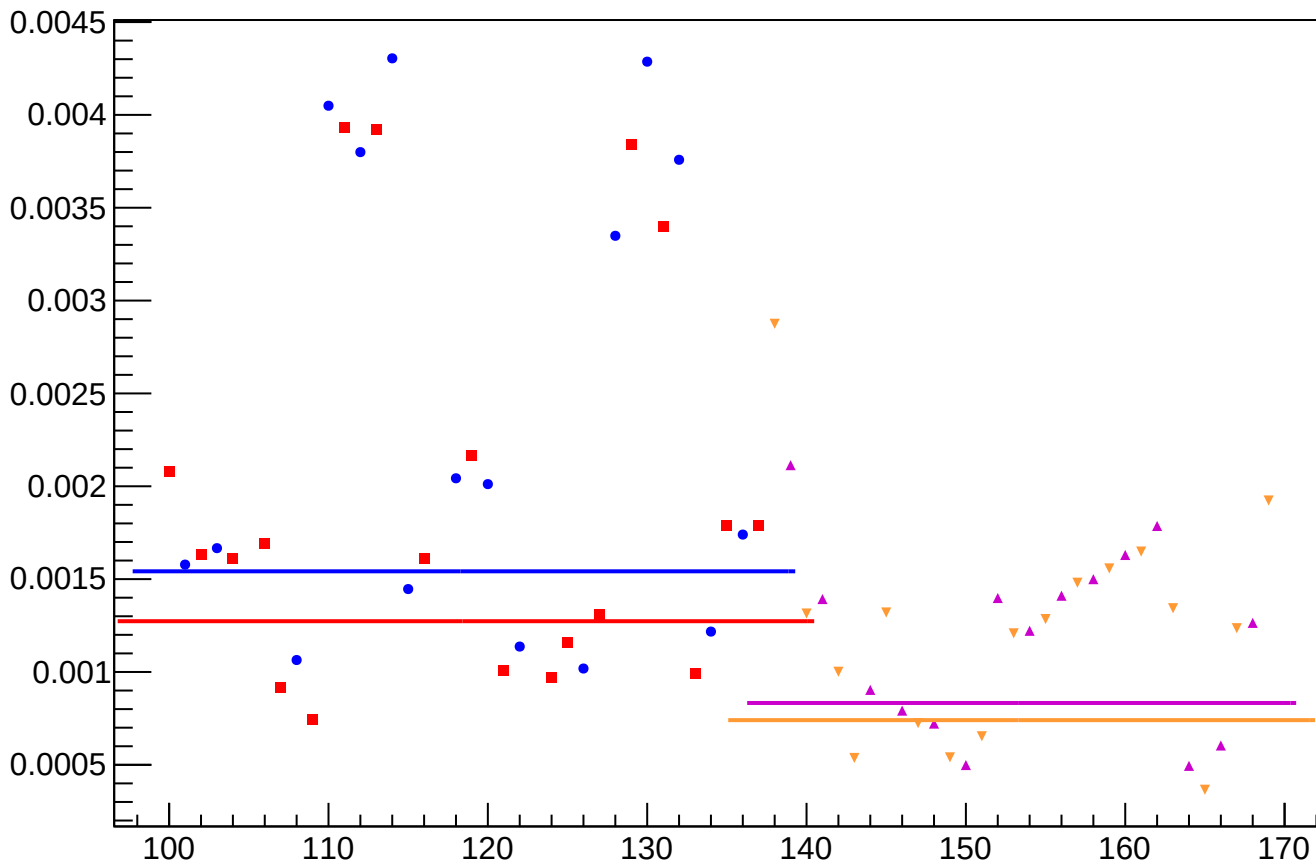
Right: -0.000 ± 0.000 χ^2/NDF : 41.2/34

In: 0.000 ± 0.000 χ^2/NDF : 34.5/30

Out: -0.000 ± 0.000 χ^2/NDF : 48.7/35

All: -0.000 ± 0.000 χ^2/NDF : 83.4/66

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2416805.2/15

Left Out: 0.001+/-0.000 χ^2/NDF :6413779.9/16

Right Out: 0.001+/-0.000 χ^2/NDF : 2667436.5/18

Left In: 0.001+/-0.000 χ^2/NDF :4290460.7/14

Left: 0.001+/-0.000 χ^2/NDF : 10837602.4/31

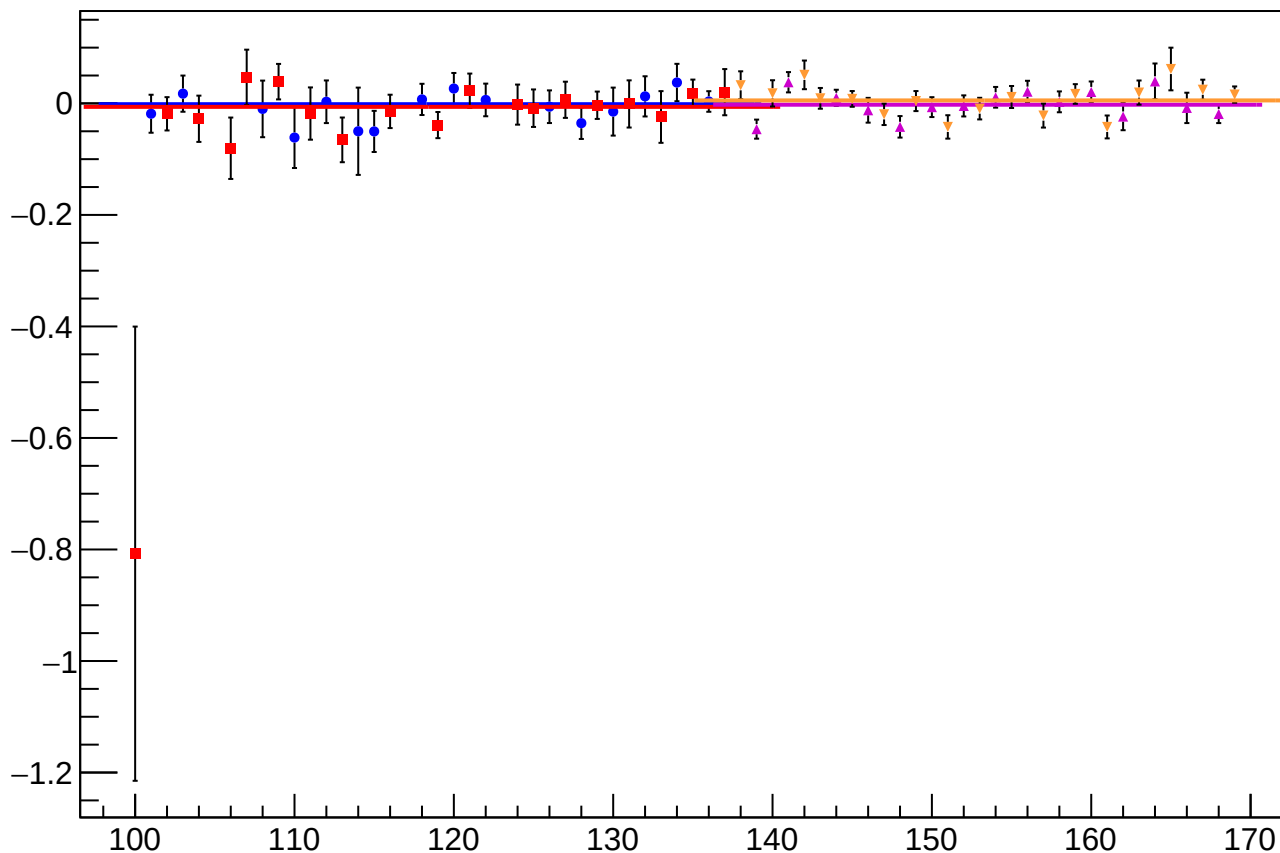
Right: 0.001+/-0.000 χ^2/NDF : 5298926.0/34

In: 0.001+/-0.000 χ^2/NDF :8844213.3/30

Out: 0.001+/-0.000 χ^2/NDF :10801216.9/35

All: 0.001+/-0.000 χ^2/NDF : 19881795.6/66

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.001 ± 0.008 χ^2/NDF : 8.3/15

Left Out: 0.005 ± 0.005 χ^2/NDF : 23.9/16

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.002 ± 0.005 χ^2/NDF : 23.7/14

Left: 0.002 ± 0.003 χ^2/NDF : 48.8/31

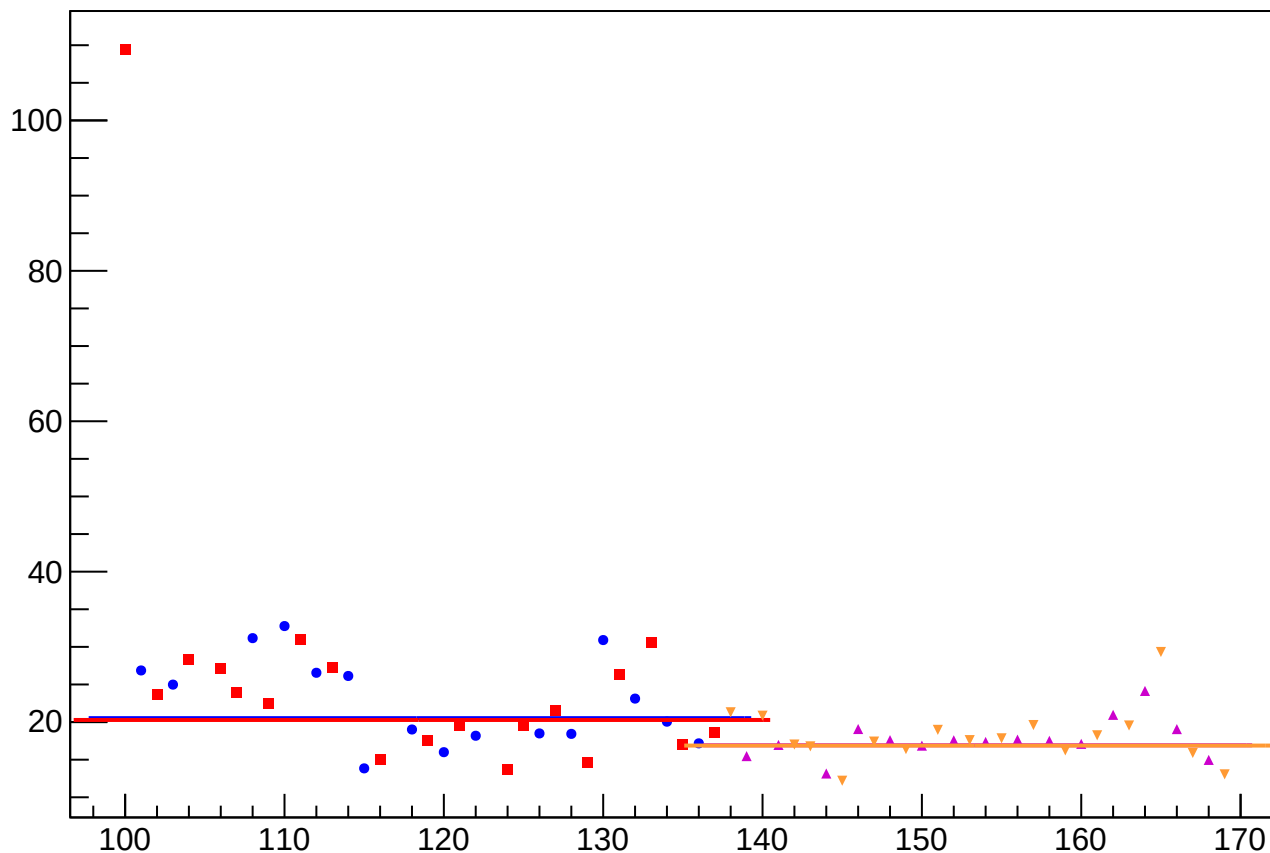
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.002 ± 0.004 χ^2/NDF : 32.0/30

Out: 0.002 ± 0.004 χ^2/NDF : 41.7/35

All: 0.000 ± 0.003 χ^2/NDF : 74.2/66

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.521+/-0.006 χ^2/NDF : 705877.0/15

Left Out: 16.877+/-0.003 χ^2/NDF : 798563.6/16

Right Out: 20.281+/-0.006 χ^2/NDF : 864361.2/18

Left In: 16.916+/-0.003 χ^2/NDF : 376990.6/14

Left: 16.896+/-0.002 χ^2/NDF : 1175620.0/31

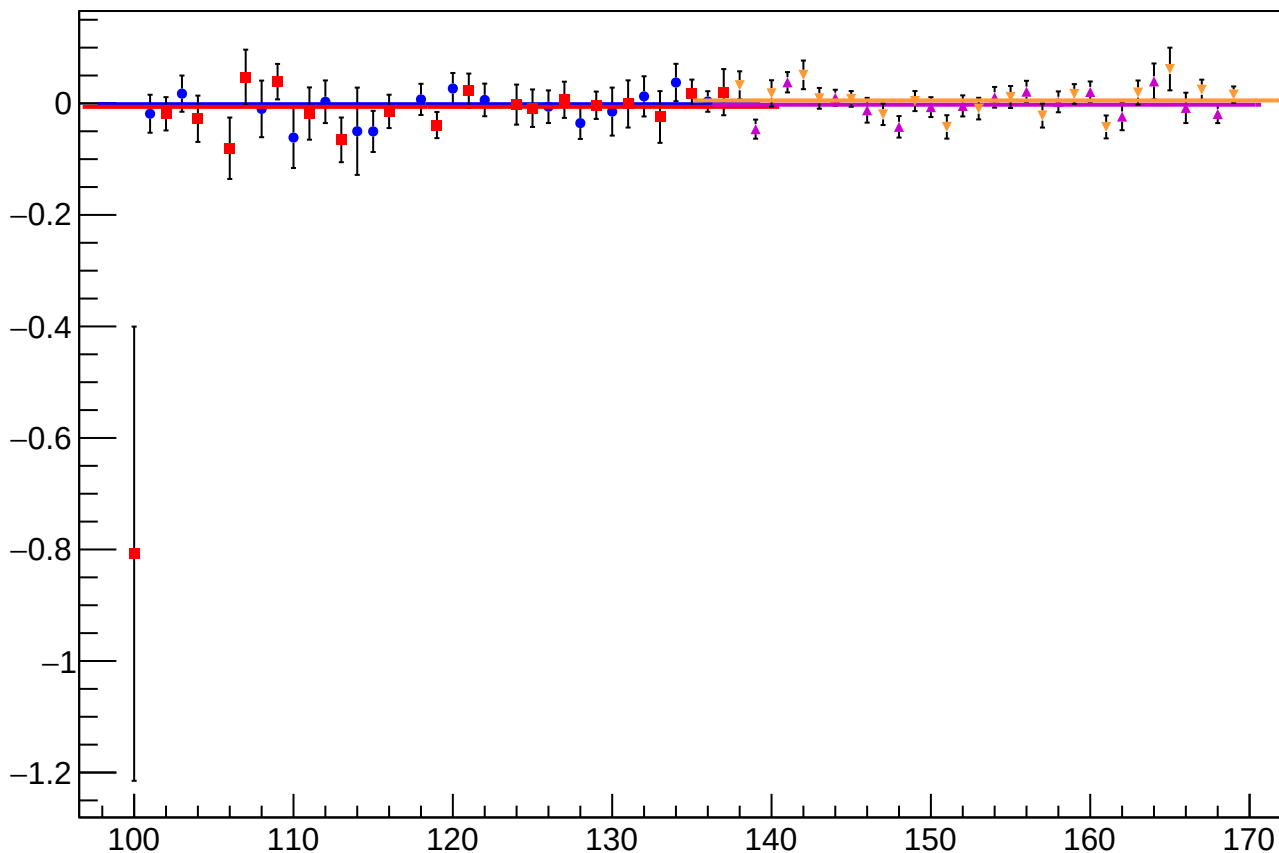
Right: 20.398+/-0.004 χ^2/NDF : 1571146.6/34

In: 17.903+/-0.003 χ^2/NDF : 1373452.0/30

Out: 17.781+/-0.003 χ^2/NDF : 1936779.8/35

All: 17.840+/-0.002 χ^2/NDF : 3311098.7/66

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.001 ± 0.008 χ^2/NDF : 8.3/15

Left Out: 0.005 ± 0.005 χ^2/NDF : 23.9/16

Right Out: -0.006 ± 0.008 χ^2/NDF : 16.2/18

Left In: -0.002 ± 0.005 χ^2/NDF : 23.7/14

Left: 0.002 ± 0.003 χ^2/NDF : 48.8/31

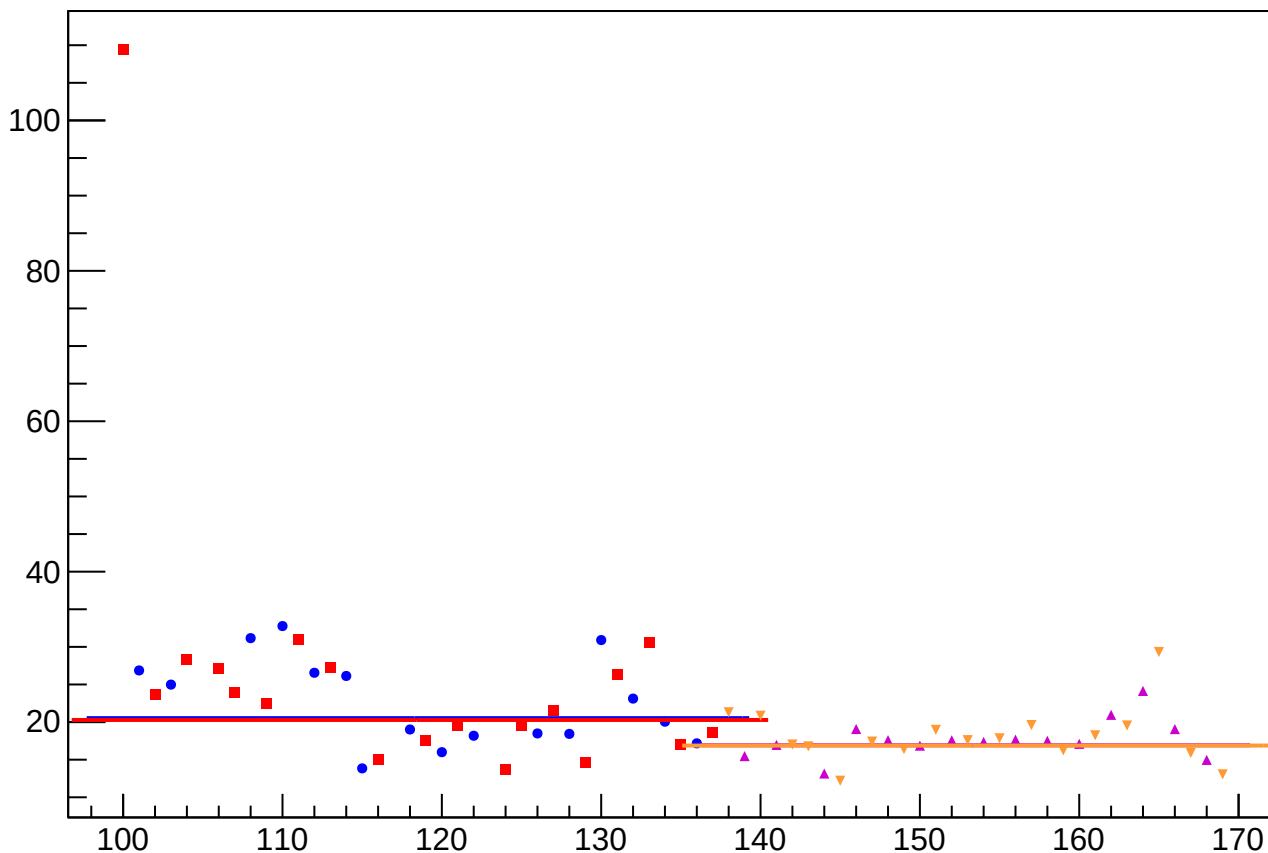
Right: -0.004 ± 0.006 χ^2/NDF : 24.7/34

In: -0.002 ± 0.004 χ^2/NDF : 32.0/30

Out: 0.002 ± 0.004 χ^2/NDF : 41.7/35

All: 0.000 ± 0.003 χ^2/NDF : 74.2/66

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 20.521+/-0.006 χ^2 /NDF: 705877.0/15

Left Out: 16.877+/-0.003 χ^2 /NDF: 798563.6/16

Right Out: 20.281+/-0.006 χ^2 /NDF: 864361.2/18

Left In: 16.916+/-0.003 χ^2 /NDF: 376990.6/14

Left: 16.896+/-0.002 χ^2 /NDF: 1175620.0/31

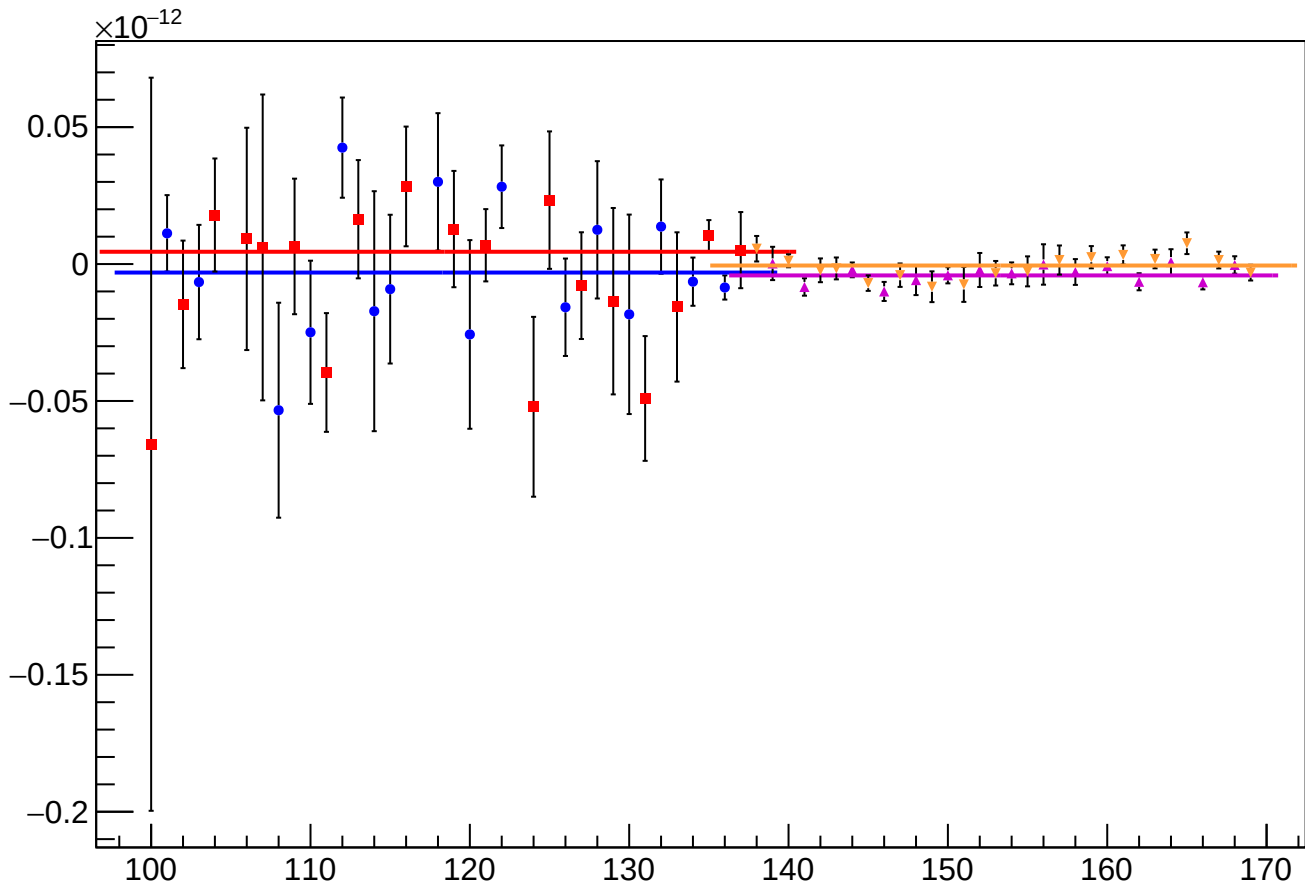
Right: 20.398+/-0.004 χ^2 /NDF: 1571146.6/34

In: 17.903+/-0.003 χ^2 /NDF: 1373452.0/30

Out: 17.781+/-0.003 χ^2 /NDF: 1936779.8/35

All: 17.840+/-0.002 χ^2 /NDF: 3311098.7/66

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2 /NDF: 20.0/15

Left Out: -0.000+/-0.000 χ^2 /NDF:19.8/16

Right Out: 0.000+/-0.000 χ^2 /NDF: 18.6/18

Left In: -0.000+/-0.000 χ^2 /NDF:11.4/14

Left: -0.000+/-0.000 χ^2 /NDF: 38.9/31

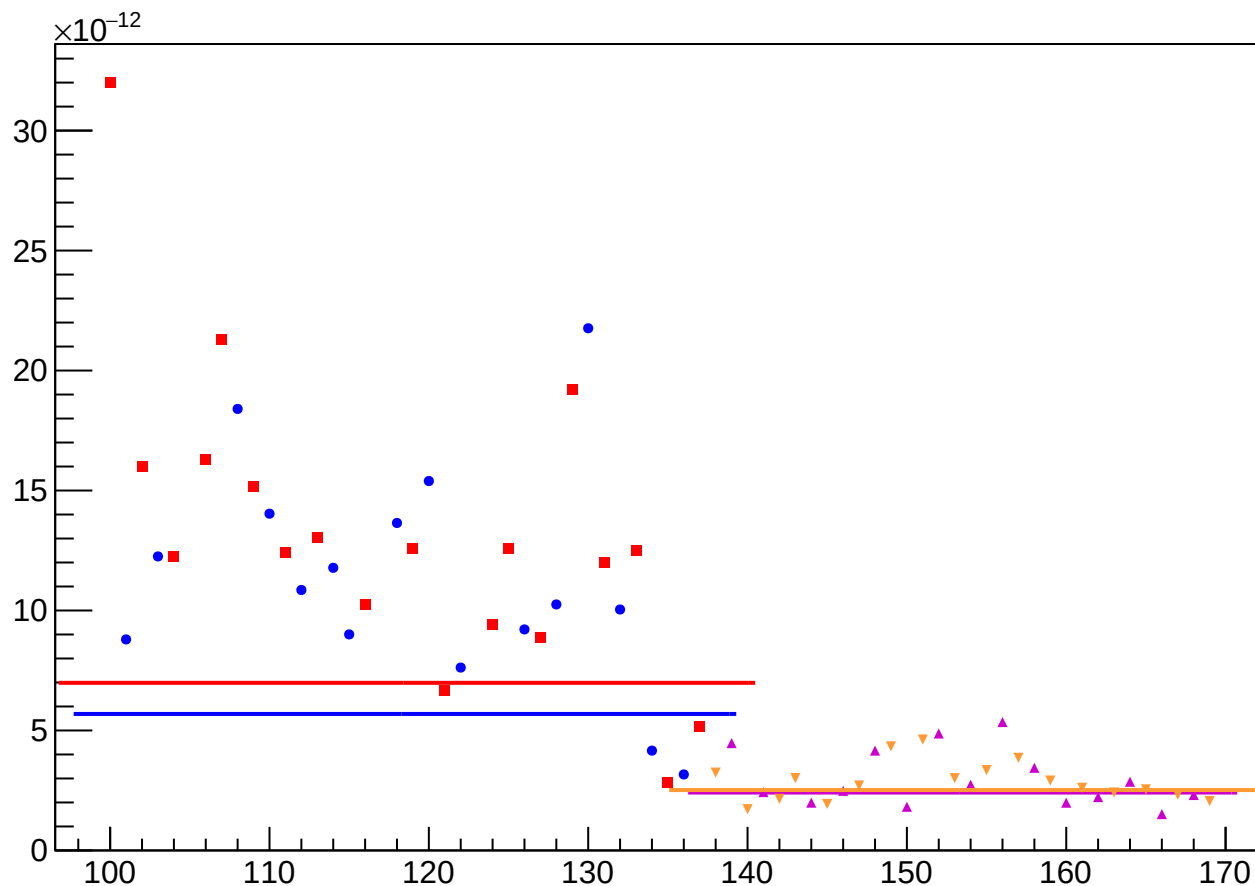
Right: 0.000+/-0.000 χ^2 /NDF: 40.8/34

In: -0.000+/-0.000 χ^2 /NDF:31.4/30

Out: -0.000+/-0.000 χ^2 /NDF:40.0/35

All: -0.000+/-0.000 χ^2 /NDF: 80.5/66

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2705902.9/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1115636.4/16

Right Out: 0.000+/-0.000 χ^2/NDF : 3108073.7/18

Left In: 0.000+/-0.000 χ^2/NDF : 1601377.1/14

Left: 0.000+/-0.000 χ^2/NDF : 2729741.4/31

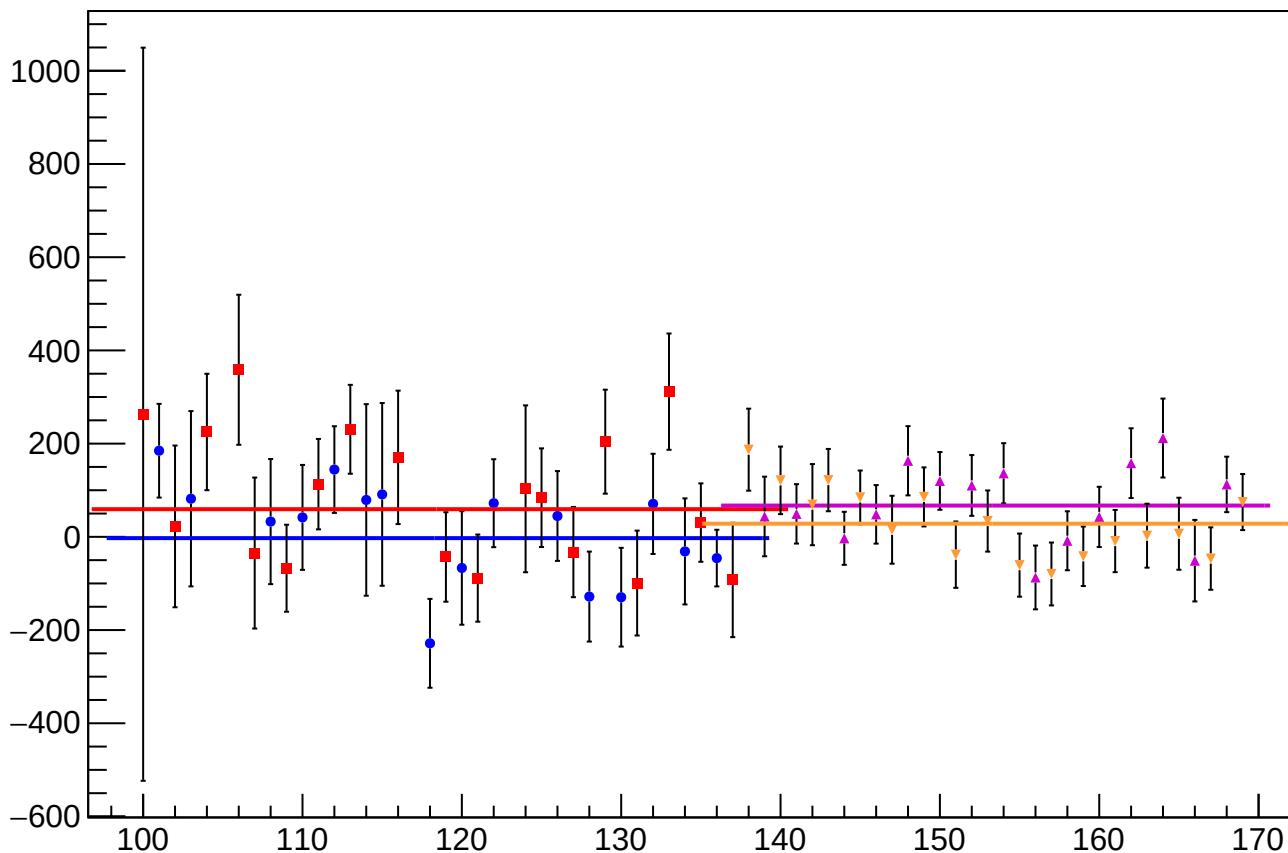
Right: 0.000+/-0.000 χ^2/NDF : 5945633.6/34

In: 0.000+/-0.000 χ^2/NDF : 6176338.3/30

Out: 0.000+/-0.000 χ^2/NDF : 6757535.8/35

All: 0.000+/-0.000 χ^2/NDF : 12943307.3/66

reg_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -2.766±/26.213 χ^2/NDF : 17.7/15

Left Out: 28.223±/16.601 χ^2/NDF : 17.6/16

Right Out: 59.349±/26.382 χ^2/NDF : 25.7/18

Left In: 67.129±/17.418 χ^2/NDF : 19.2/14

Left: 46.743±/12.017 χ^2/NDF : 39.5/31

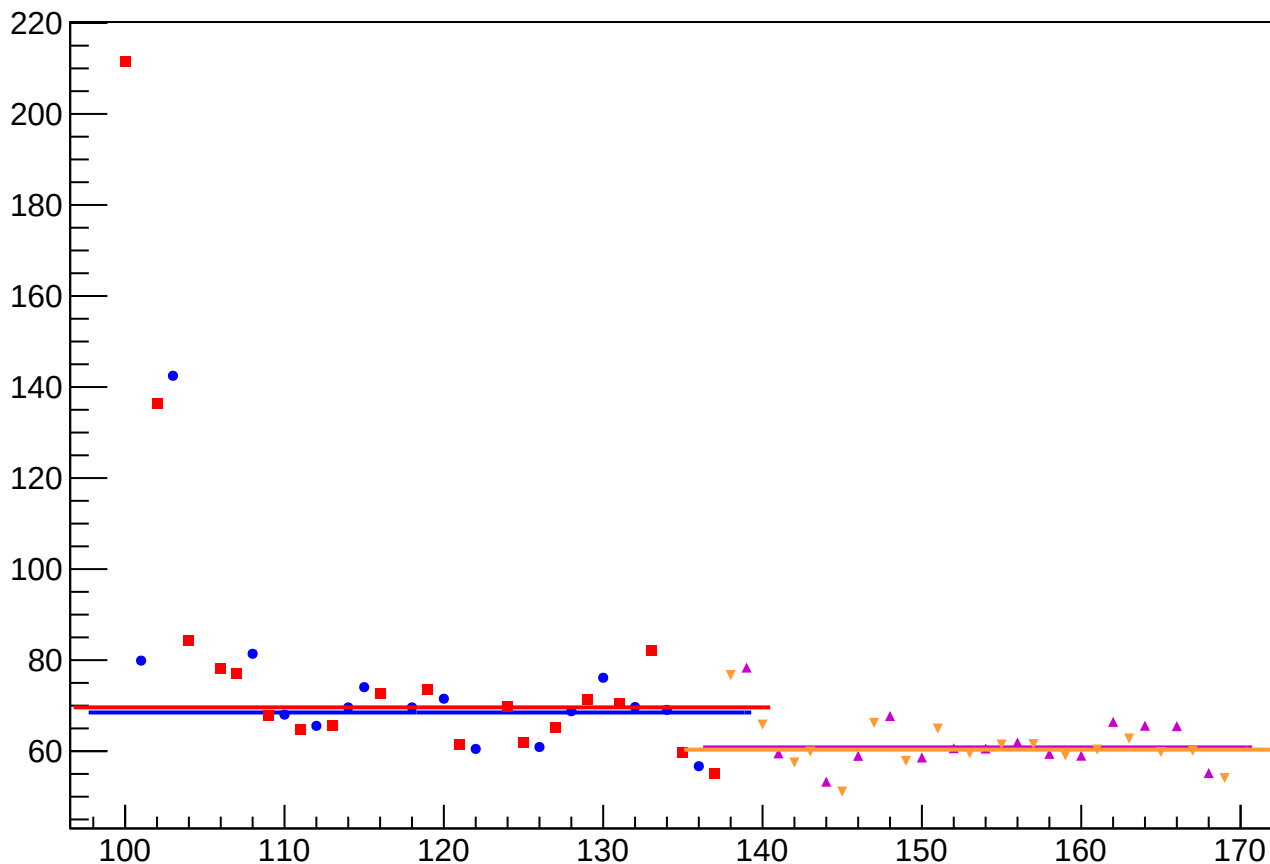
Right: 28.091±/18.595 χ^2/NDF : 46.2/34

In: 45.721±/14.507 χ^2/NDF : 41.9/30

Out: 37.052±/14.051 χ^2/NDF : 44.3/35

All: 41.248±/10.093 χ^2/NDF : 86.4/66

reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 68.499 ± 0.019 χ^2/NDF : 471865.0/15

Left Out: 60.337 ± 0.012 χ^2/NDF : 184964.9/16

Right Out: 69.620 ± 0.019 χ^2/NDF : 520403.9/18

Left In: 60.830 ± 0.012 χ^2/NDF : 186097.3/14

Left: 60.572 ± 0.008 χ^2/NDF : 371904.8/31

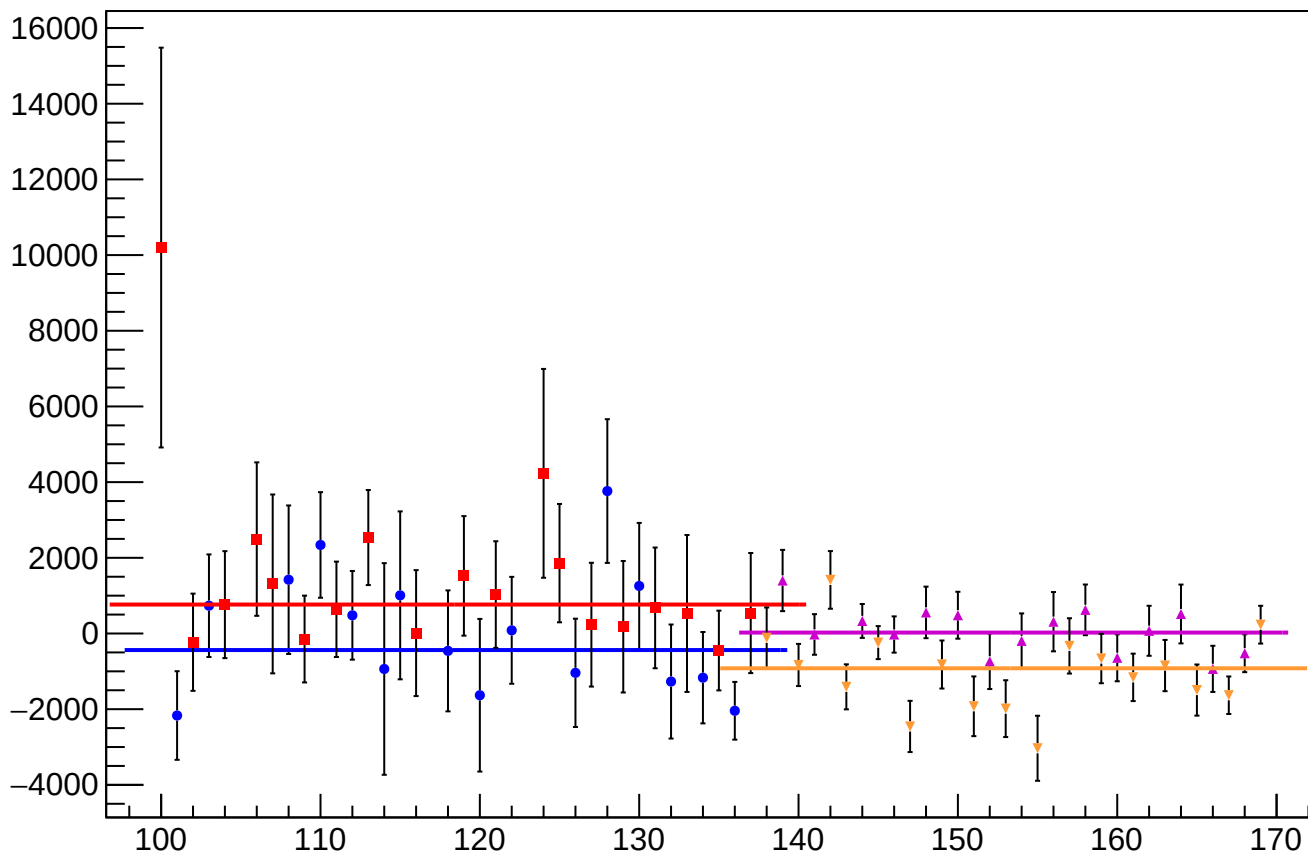
Right: 69.056 ± 0.013 χ^2/NDF : 994086.4/34

In: 63.179 ± 0.010 χ^2/NDF : 776691.1/30

Out: 62.970 ± 0.010 χ^2/NDF : 882755.4/35

All: 63.071 ± 0.007 χ^2/NDF : 1659661.5/66

asym_sam_12345678_avg_reg_correction_mean vs Slug, Sign Corrected



Right In: -437.444+/-348.880 χ^2/NDF : 20.6/15

Left Out: -919.459+/-152.134 χ^2/NDF :37.5/16

Right Out: 765.341+/-353.052 χ^2/NDF : 11.3/18

Left In: 24.351+/-158.209 χ^2/NDF :11.9/14

Left: -466.021+/-109.660 χ^2/NDF : 67.8/31

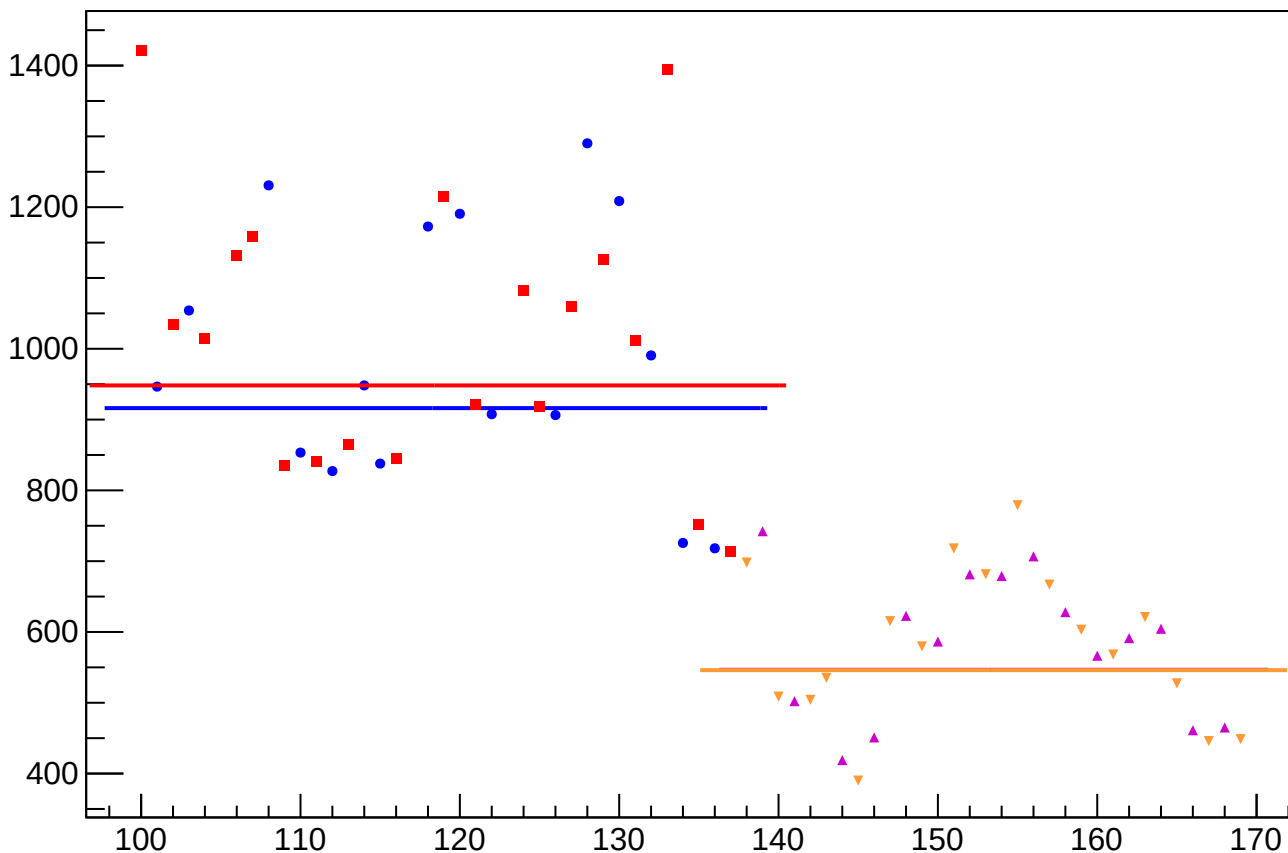
Right: 156.799+/-248.157 χ^2/NDF : 37.7/34

In: -54.416+/-144.086 χ^2/NDF :33.9/30

Out: -655.610+/-139.715 χ^2/NDF :68.0/35

All: -364.270+/-100.303 χ^2/NDF : 110.9/66

asym_sam_12345678_avg_reg_correction_rms vs Slug, Sign Corrected



Right In: 916.171+/-0.247 χ^2/NDF : 509126.4/15

Left Out: 546.090+/-0.108 χ^2/NDF : 933274.8/16

Right Out: 948.235+/-0.250 χ^2/NDF : 415192.3/18

Left In: 546.623+/-0.112 χ^2/NDF : 767749.2/14

Left: 546.346+/-0.078 χ^2/NDF : 1701035.9/31

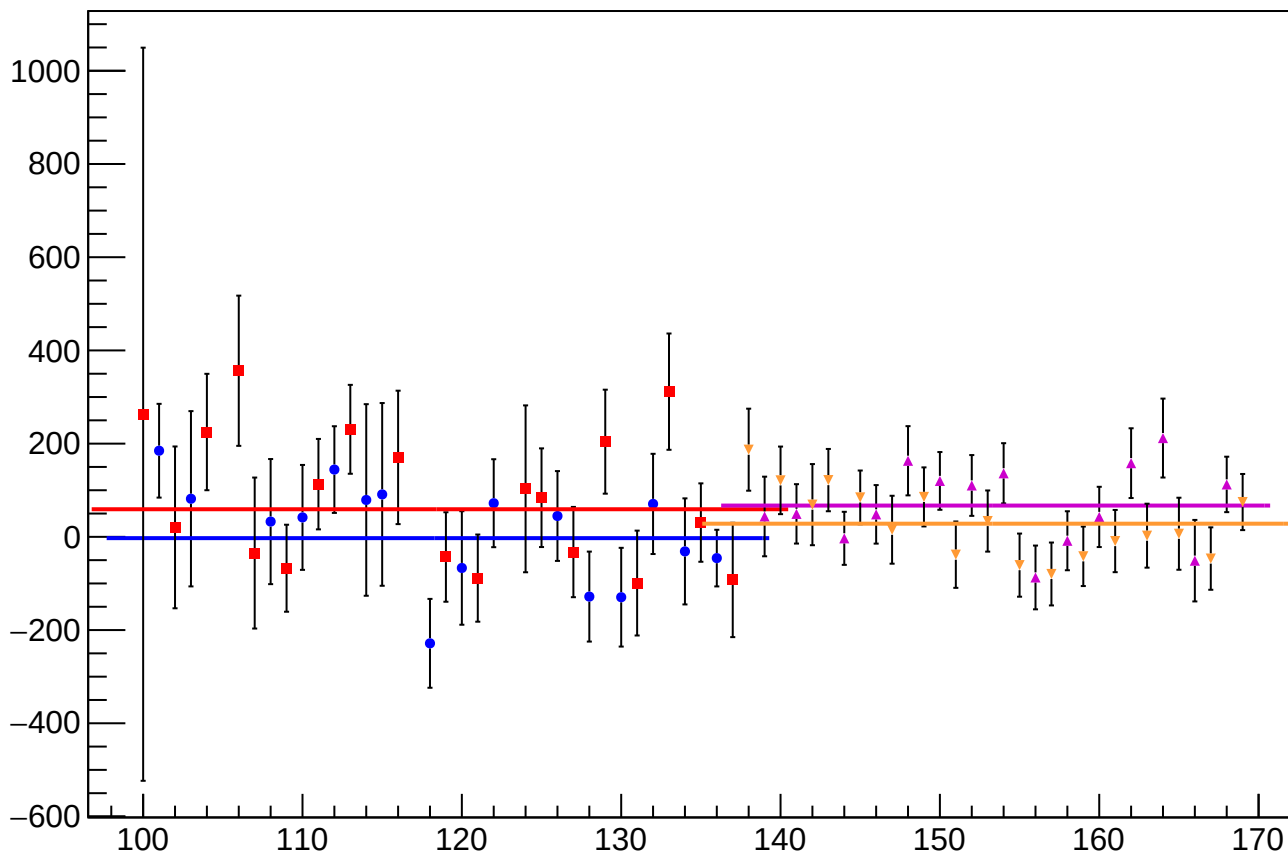
Right: 932.012+/-0.175 χ^2/NDF : 932665.3/34

In: 609.656+/-0.102 χ^2/NDF : 3138105.6/30

Out: 609.069+/-0.099 χ^2/NDF : 3536976.5/35

All: 609.353+/-0.071 χ^2/NDF : 6675099.3/66

cor_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -2.773 ± 26.213 χ^2/NDF : 17.7/15

Left Out: 28.227 ± 16.601 χ^2/NDF : 17.6/16

Right Out: 59.226 ± 26.384 χ^2/NDF : 25.7/18

Left In: 67.128 ± 17.418 χ^2/NDF : 19.2/14

Left: 46.744 ± 12.017 χ^2/NDF : 39.5/31

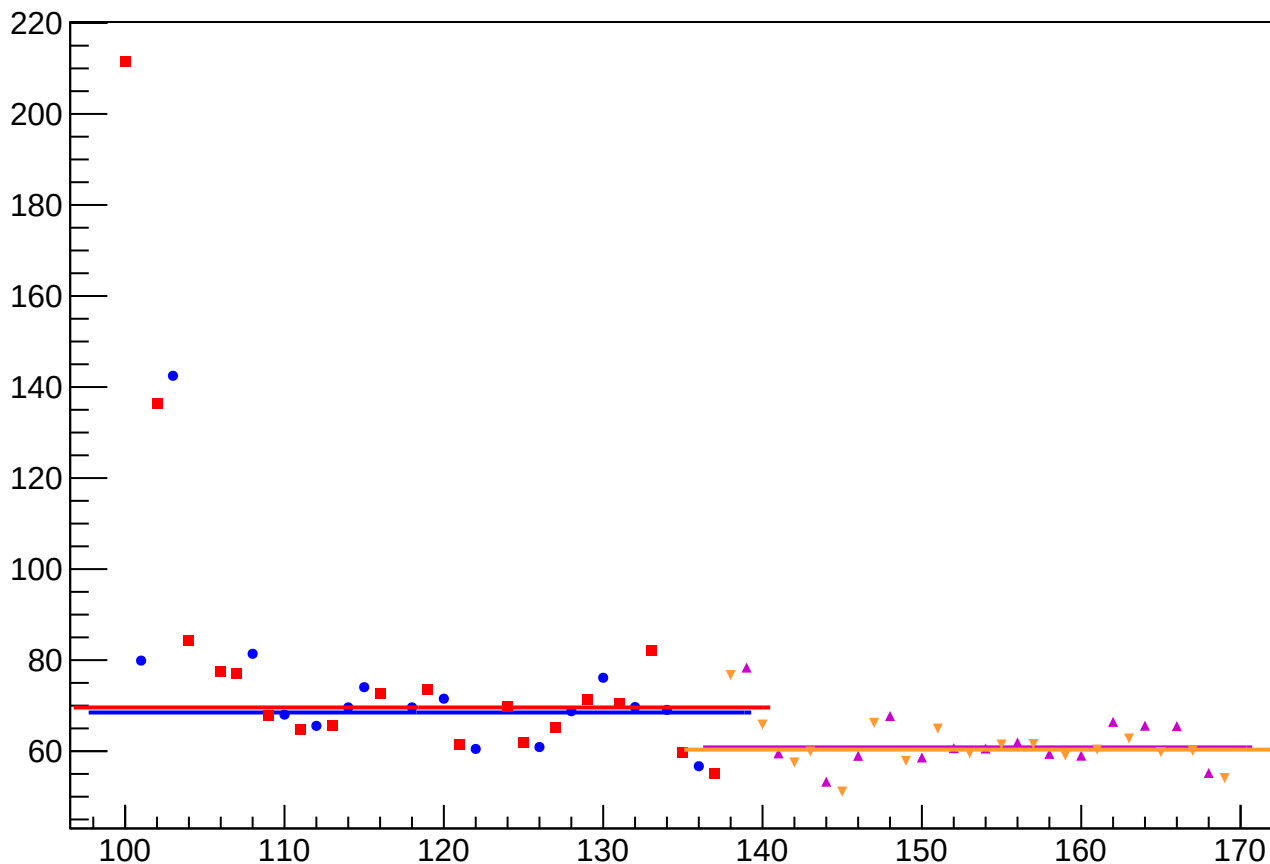
Right: 28.026 ± 18.595 χ^2/NDF : 46.1/34

In: 45.719 ± 14.507 χ^2/NDF : 41.9/30

Out: 37.019 ± 14.051 χ^2/NDF : 44.3/35

All: 41.230 ± 10.093 χ^2/NDF : 86.3/66

cor_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 68.499 ± 0.019 χ^2/NDF : 471868.0/15

Left Out: 60.337 ± 0.012 χ^2/NDF : 184964.9/16

Right Out: 69.600 ± 0.019 χ^2/NDF : 519788.9/18

Left In: 60.830 ± 0.012 χ^2/NDF : 186097.3/14

Left: 60.572 ± 0.008 χ^2/NDF : 371904.8/31

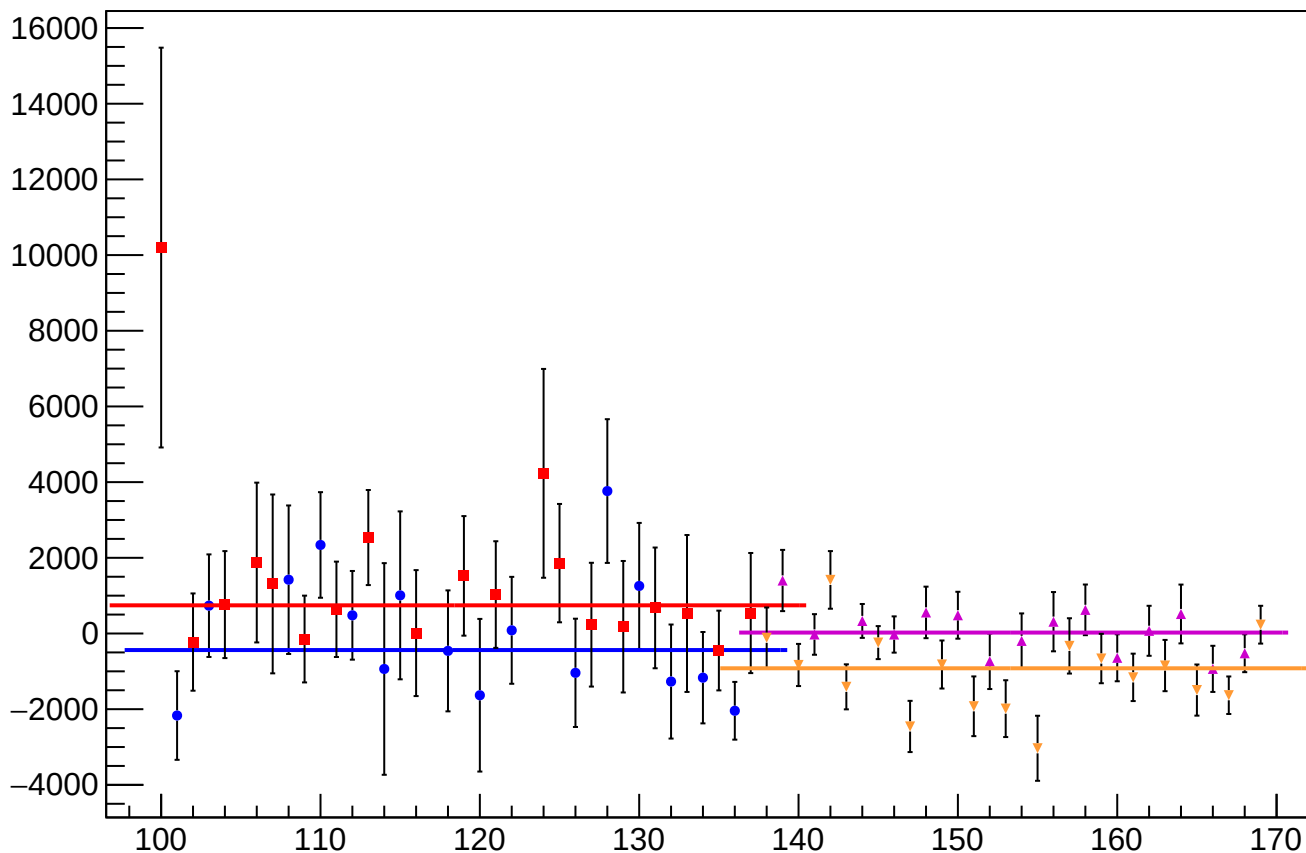
Right: 69.046 ± 0.013 χ^2/NDF : 993412.6/34

In: 63.179 ± 0.010 χ^2/NDF : 776694.1/30

Out: 62.964 ± 0.010 χ^2/NDF : 881395.0/35

All: 63.068 ± 0.007 χ^2/NDF : 1658315.8/66

asym_sam_12345678_avg_cor_correction_mean vs Slug, Sign Corrected



Right In: -437.415 $\pm$ 348.881 χ^2 /NDF: 20.6/15

Left Out: -919.453 $\pm$ 152.134 χ^2 /NDF:37.5/16

Right Out: 744.388 $\pm$ 353.488 χ^2 /NDF: 10.9/18

Left In: 24.353 $\pm$ 158.209 χ^2 /NDF:11.9/14

Left: -466.017 $\pm$ 109.660 χ^2 /NDF: 67.8/31

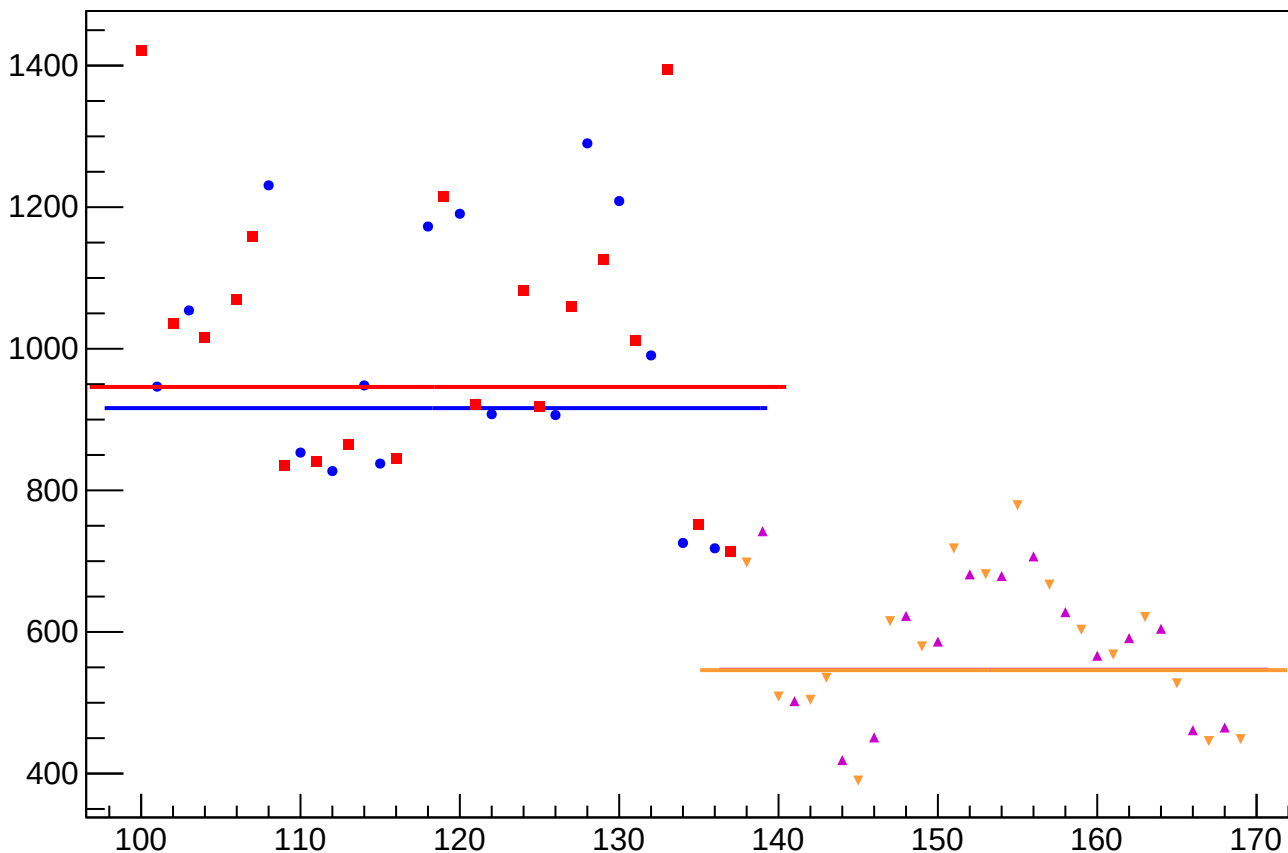
Right: 145.736 $\pm$ 248.309 χ^2 /NDF: 37.1/34

In: -54.408 $\pm$ 144.086 χ^2 /NDF:33.9/30

Out: -659.428 $\pm$ 139.742 χ^2 /NDF:67.0/35

All: -366.177 $\pm$ 100.313 χ^2 /NDF: 110.0/66

asym_sam_12345678_avg_cor_correction_rms vs Slug, Sign Corrected



Right In: 916.174+/-0.247 χ^2/NDF : 509149.2/15

Left Out: 546.090+/-0.108 χ^2/NDF : 933277.8/16

Right Out: 946.093+/-0.250 χ^2/NDF : 405411.3/18

Left In: 546.624+/-0.112 χ^2/NDF : 767746.8/14

Left: 546.346+/-0.078 χ^2/NDF : 1701036.4/31

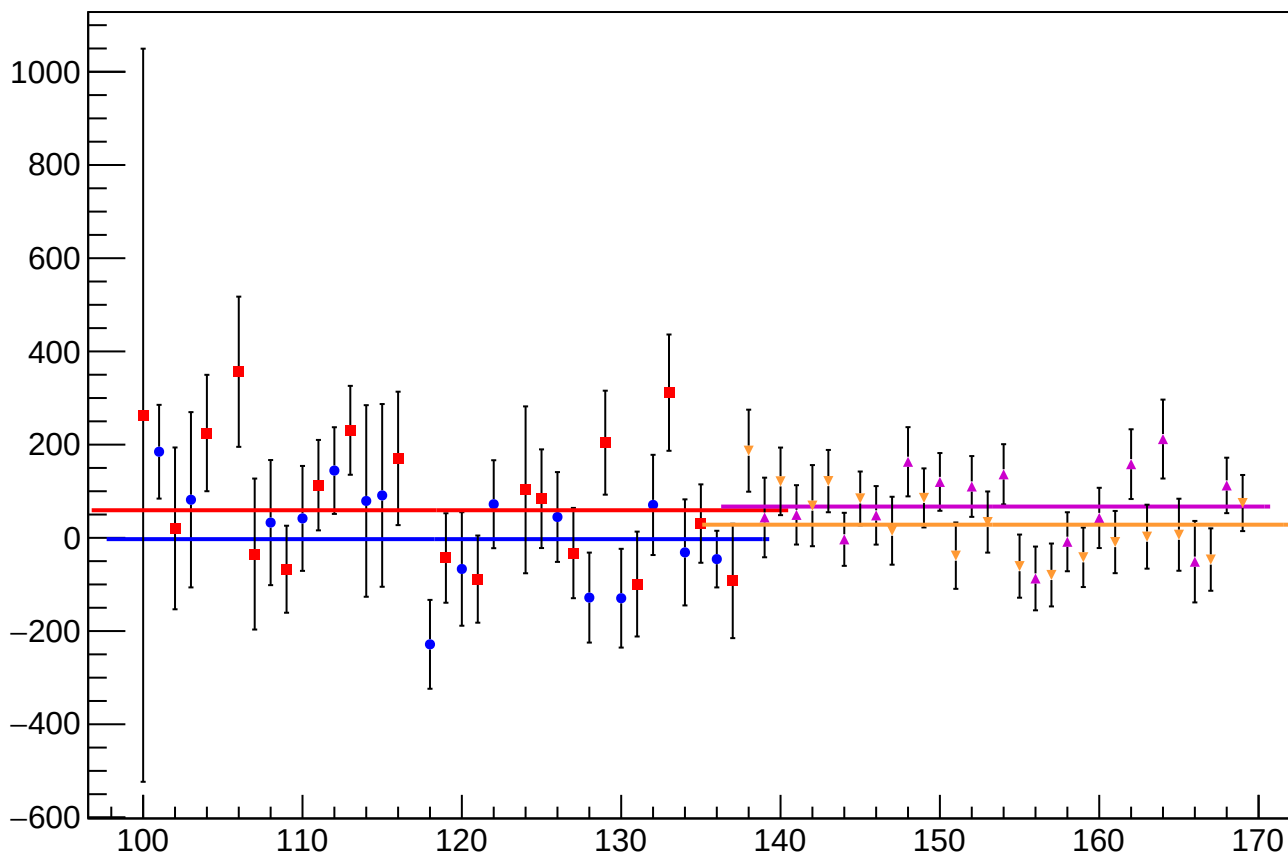
Right: 930.937+/-0.176 χ^2/NDF : 921817.9/34

In: 609.656+/-0.102 χ^2/NDF : 3138147.1/30

Out: 608.602+/-0.099 χ^2/NDF : 3499438.1/35

All: 609.113+/-0.071 χ^2/NDF : 6637640.3/66

eigen_cor_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: -2.773 ± 26.213 $\chi^2/\text{NDF}: 17.7/15$

Left Out: 28.227 ± 16.601 $\chi^2/\text{NDF}: 17.6/16$

Right Out: 59.226 ± 26.384 $\chi^2/\text{NDF}: 25.7/18$

Left In: 67.128 ± 17.418 $\chi^2/\text{NDF}: 19.2/14$

Left: 46.744 ± 12.017 $\chi^2/\text{NDF}: 39.5/31$

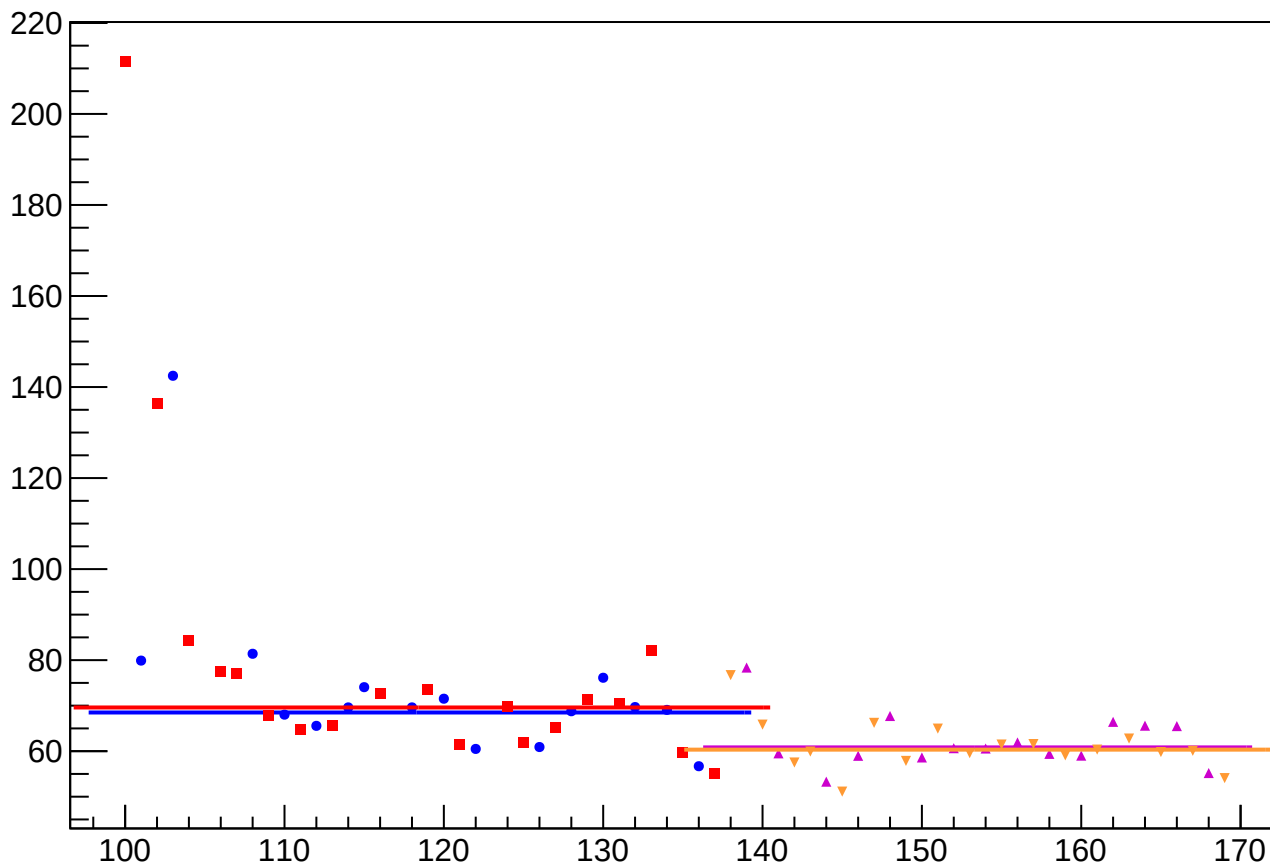
Right: 28.026 ± 18.595 $\chi^2/\text{NDF}: 46.1/34$

In: 45.719 ± 14.507 $\chi^2/\text{NDF}: 41.9/30$

Out: 37.019 ± 14.051 $\chi^2/\text{NDF}: 44.3/35$

All: 41.230 ± 10.093 $\chi^2/\text{NDF}: 86.3/66$

eigen_cor_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 68.499 $\pm$ 0.019 χ^2 /NDF: 471868.0/15

Left Out: 60.337 $\pm$ 0.012 χ^2 /NDF:184964.9/16

Right Out: 69.600 $\pm$ 0.019 χ^2 /NDF: 519788.9/18

Left In: 60.830 $\pm$ 0.012 χ^2 /NDF:186097.3/14

Left: 60.572 $\pm$ 0.008 χ^2 /NDF: 371904.8/31

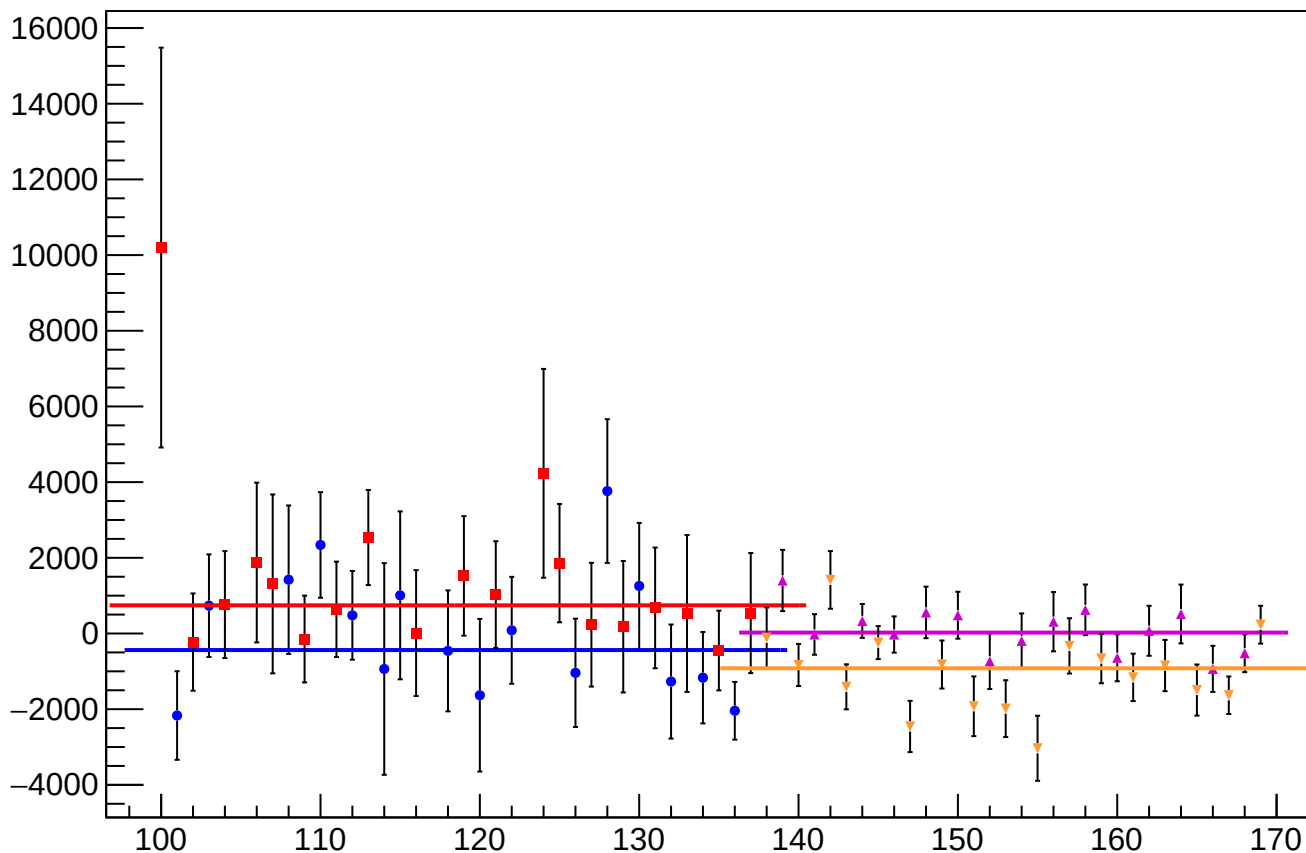
Right: 69.046 $\pm$ 0.013 χ^2 /NDF: 993412.6/34

In: 63.179 $\pm$ 0.010 χ^2 /NDF:776694.1/30

Out: 62.964 $\pm$ 0.010 χ^2 /NDF:881395.0/35

All: 63.068 $\pm$ 0.007 χ^2 /NDF: 1658315.8/66

asym_sam_12345678_avg_eigen_cor_correction_mean vs Slug, Sign Corrected



Right In: -437.415+/-348.881 χ^2/NDF : 20.6/15

Left Out: -919.453+/-152.134 χ^2/NDF :37.5/16

Right Out: 744.388+/-353.488 χ^2/NDF : 10.9/18

Left In: 24.353+/-158.209 χ^2/NDF :11.9/14

Left: -466.017+/-109.660 χ^2/NDF : 67.8/31

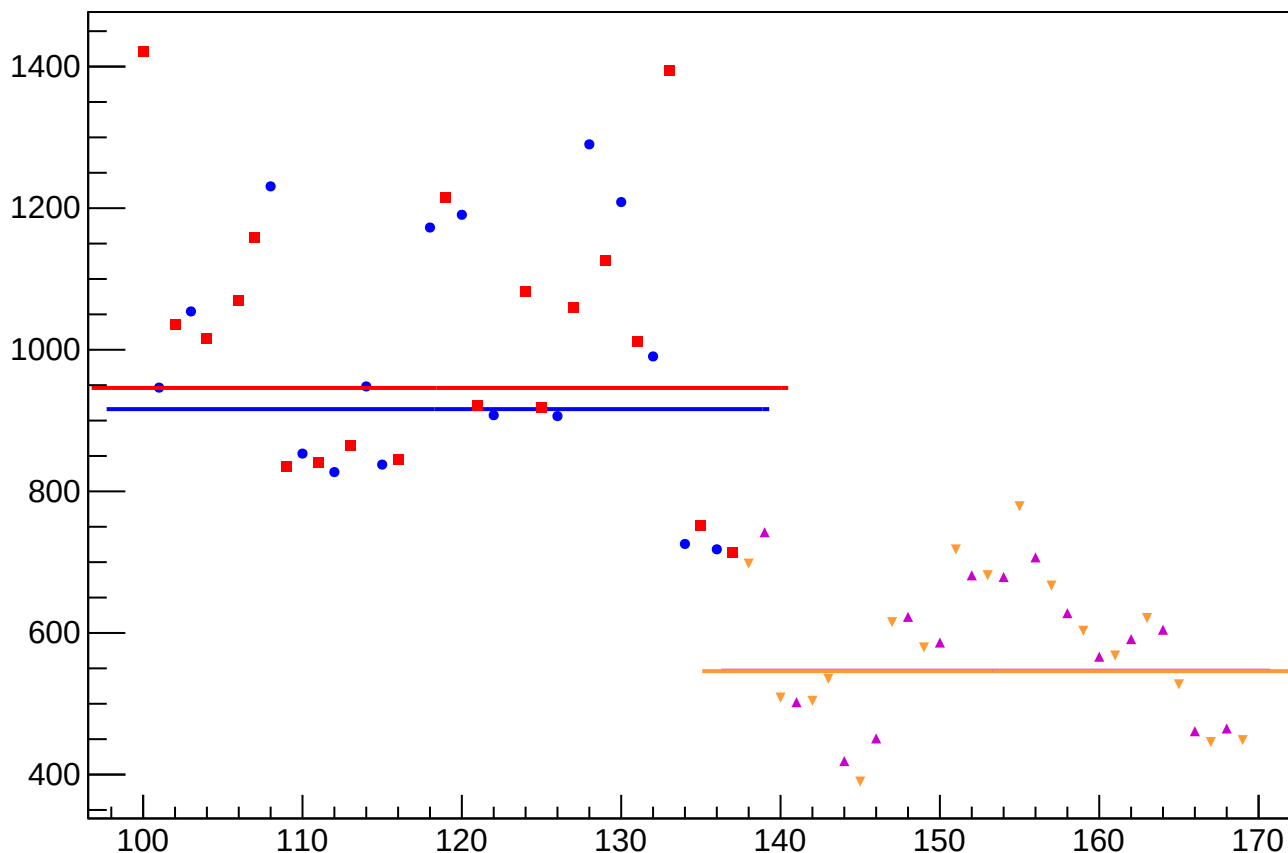
Right: 145.736+/-248.309 χ^2/NDF : 37.1/34

In: -54.408+/-144.086 χ^2/NDF :33.9/30

Out: -659.428+/-139.742 χ^2/NDF :67.0/35

All: -366.177+/-100.313 χ^2/NDF : 110.0/66

asym_sam_12345678_avg_eigen_cor_correction_rms vs Slug, Sign Corrected



Right In: 916.174+/-0.247 χ^2/NDF : 509149.2/15

Left Out: 546.090+/-0.108 χ^2/NDF :933277.8/16

Right Out: 946.093+/-0.250 χ^2/NDF : 405411.3/18

Left In: 546.624+/-0.112 χ^2/NDF :767746.8/14

Left: 546.346+/-0.078 χ^2/NDF : 1701036.4/31

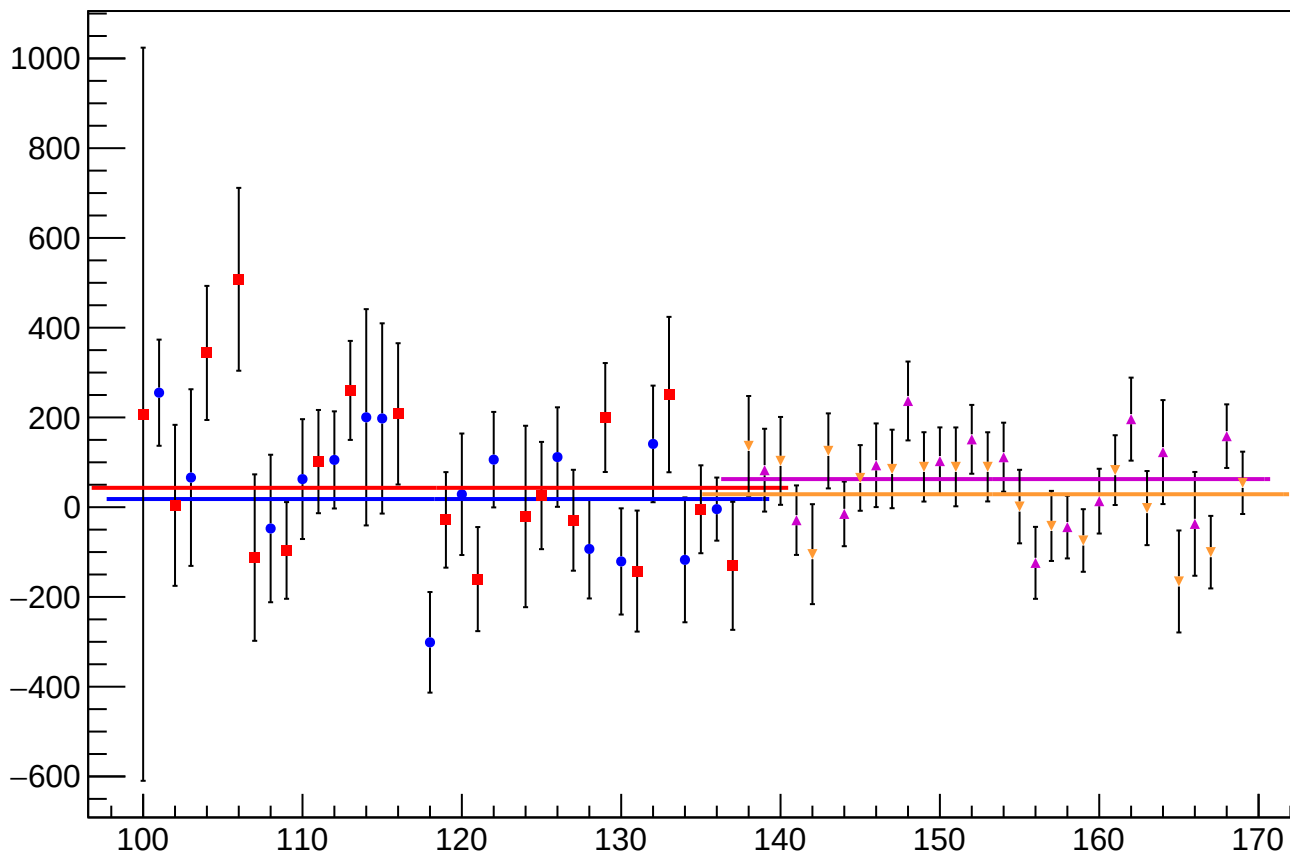
Right: 930.937+/-0.176 χ^2/NDF : 921817.9/34

In: 609.656+/-0.102 χ^2/NDF :3138147.1/30

Out: 608.602+/-0.099 χ^2/NDF :3499438.1/35

All: 609.113+/-0.071 χ^2/NDF : 6637640.3/66

dit_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 18.175+/-30.346 χ^2/NDF : 20.1/15

Left Out: 28.881+/-20.161 χ^2/NDF :16.0/16

Right Out: 43.146+/-30.707 χ^2/NDF : 27.7/18

Left In: 62.626+/-21.058 χ^2/NDF :21.8/14

Left: 45.020+/-14.563 χ^2/NDF : 39.2/31

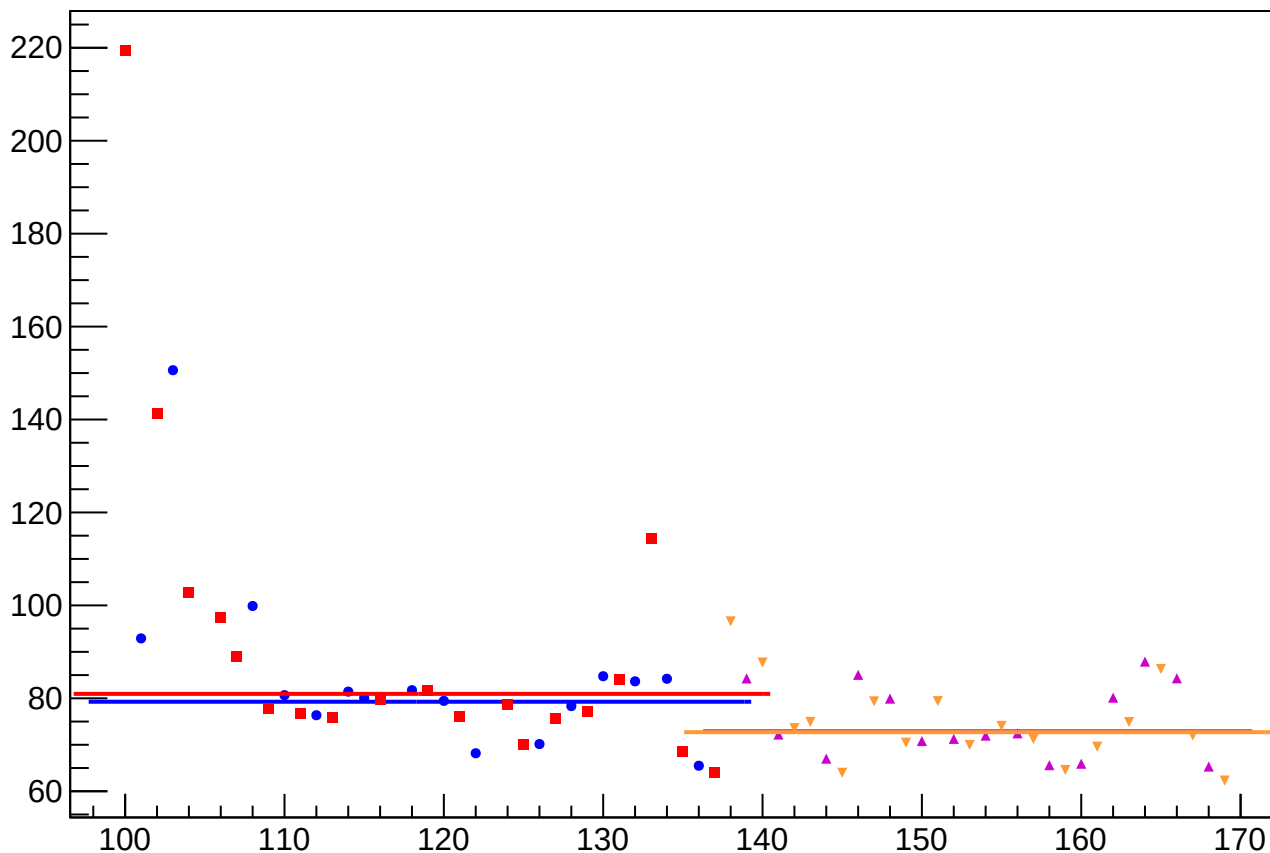
Right: 30.513+/-21.585 χ^2/NDF : 48.2/34

In: 48.179+/-17.301 χ^2/NDF :43.4/30

Out: 33.178+/-16.853 χ^2/NDF :43.9/35

All: 40.482+/-12.072 χ^2/NDF : 87.7/66

dit_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 79.263+/-0.021 χ^2/NDF : 444951.1/15

Left Out: 72.713+/-0.014 χ^2/NDF : 303059.6/16

Right Out: 80.958+/-0.022 χ^2/NDF : 514182.4/18

Left In: 72.903+/-0.015 χ^2/NDF : 222063.4/14

Left: 72.804+/-0.010 χ^2/NDF : 525207.3/31

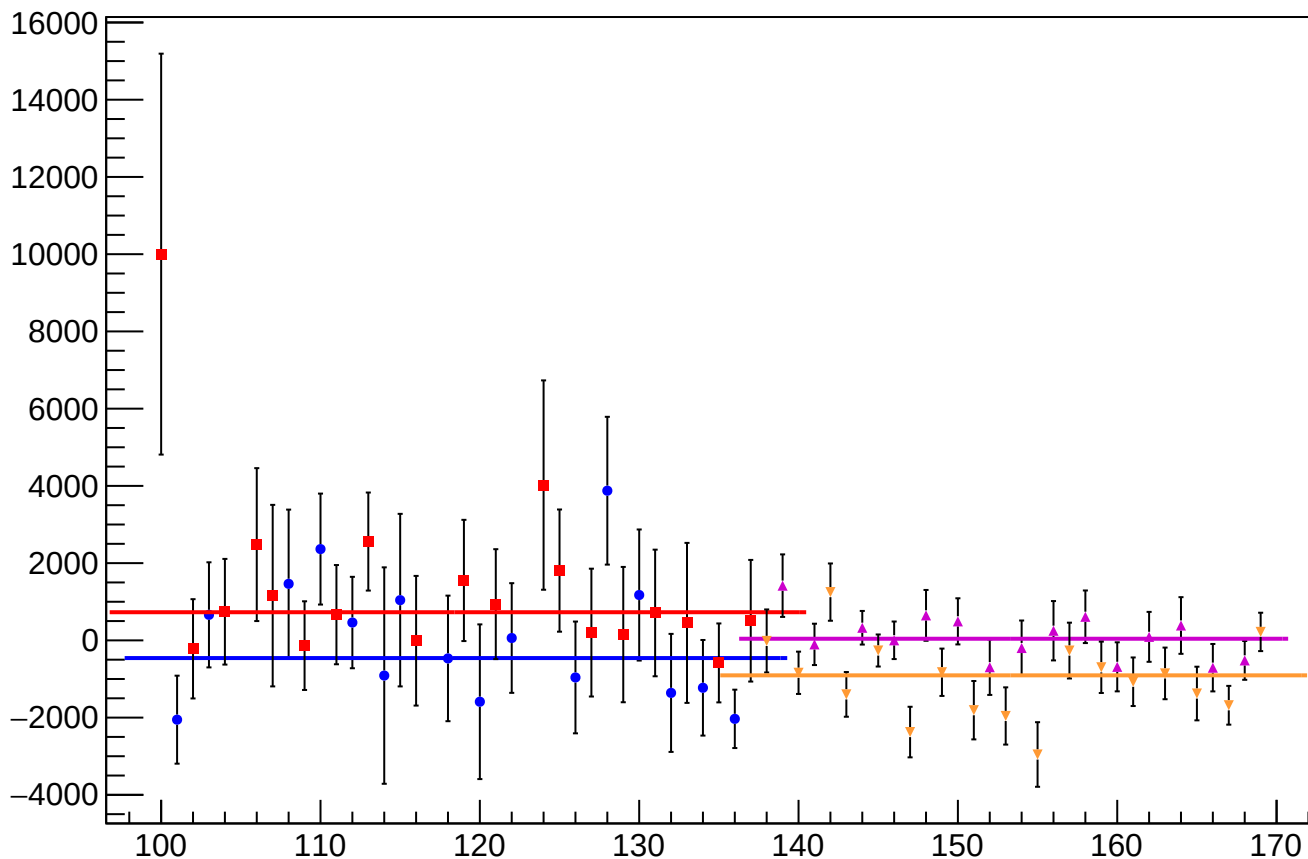
Right: 80.101+/-0.015 χ^2/NDF : 962217.4/34

In: 74.970+/-0.012 χ^2/NDF : 726319.0/30

Out: 75.197+/-0.012 χ^2/NDF : 917998.0/35

All: 75.086+/-0.009 χ^2/NDF : 1644493.7/66

asym_sam_12345678_avg_dit_correction_mean vs Slug, Sign Corrected



Right In: -458.108+/-350.075 χ^2/NDF : 20.3/15

Left Out: -905.637+/-149.954 χ^2/NDF :36.2/16

Right Out: 728.750+/-352.574 χ^2/NDF : 11.5/18

Left In: 42.179+/-156.660 χ^2/NDF :11.0/14

Left: -452.451+/-108.327 χ^2/NDF : 66.3/31

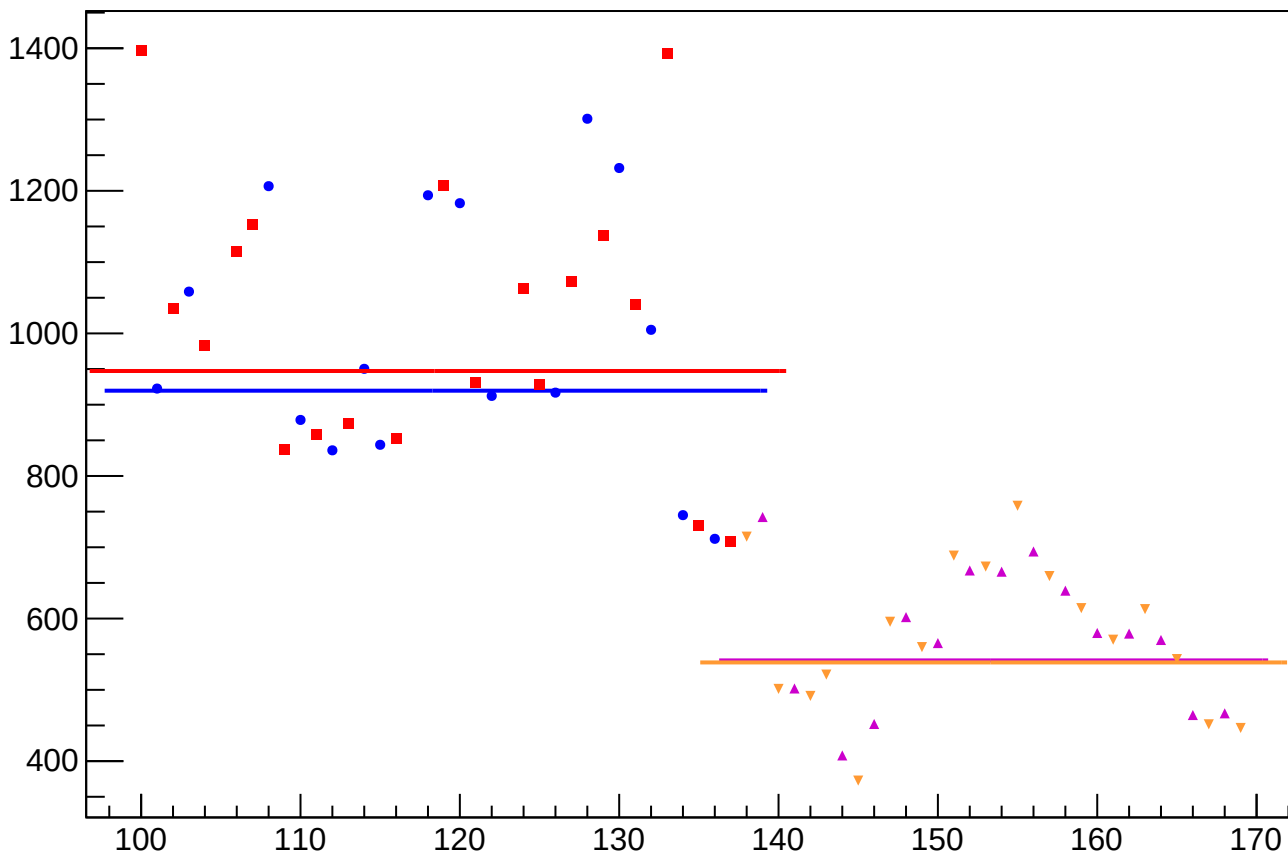
Right: 131.100+/-248.419 χ^2/NDF : 37.5/34

In: -41.293+/-142.995 χ^2/NDF :33.0/30

Out: -655.279+/-137.992 χ^2/NDF :65.9/35

All: -359.216+/-99.297 χ^2/NDF : 108.5/66

asym_sam_12345678_avg_dit_correction_rms vs Slug, Sign Corrected



Right In: 919.638+/-0.248 χ^2/NDF : 515443.8/15

Left Out: 538.445+/-0.106 χ^2/NDF : 972657.4/16

Right Out: 947.272+/-0.249 χ^2/NDF : 425563.8/18

Left In: 541.296+/-0.111 χ^2/NDF : 744649.5/14

Left: 539.808+/-0.077 χ^2/NDF : 1717652.8/31

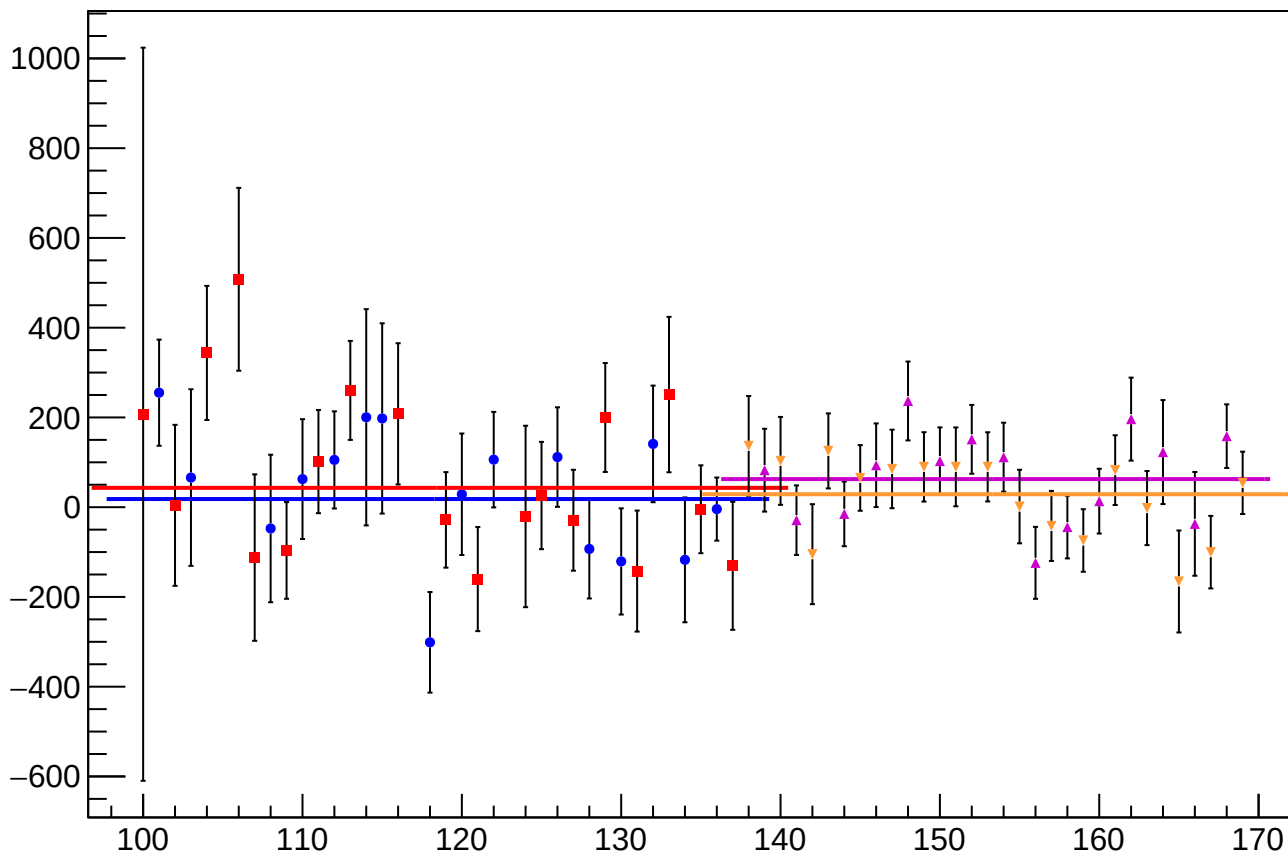
Right: 933.357+/-0.176 χ^2/NDF : 947194.3/34

In: 604.422+/-0.101 χ^2/NDF : 3206356.8/30

Out: 601.069+/-0.098 χ^2/NDF : 3675417.4/35

All: 602.686+/-0.070 χ^2/NDF : 6882343.4/66

eigen_dit_asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 18.175+/-30.346 χ^2/NDF : 20.1/15

Left Out: 28.882+/-20.161 χ^2/NDF :16.0/16

Right Out: 43.144+/-30.707 χ^2/NDF : 27.7/18

Left In: 62.625+/-21.058 χ^2/NDF :21.8/14

Left: 45.020+/-14.563 χ^2/NDF : 39.2/31

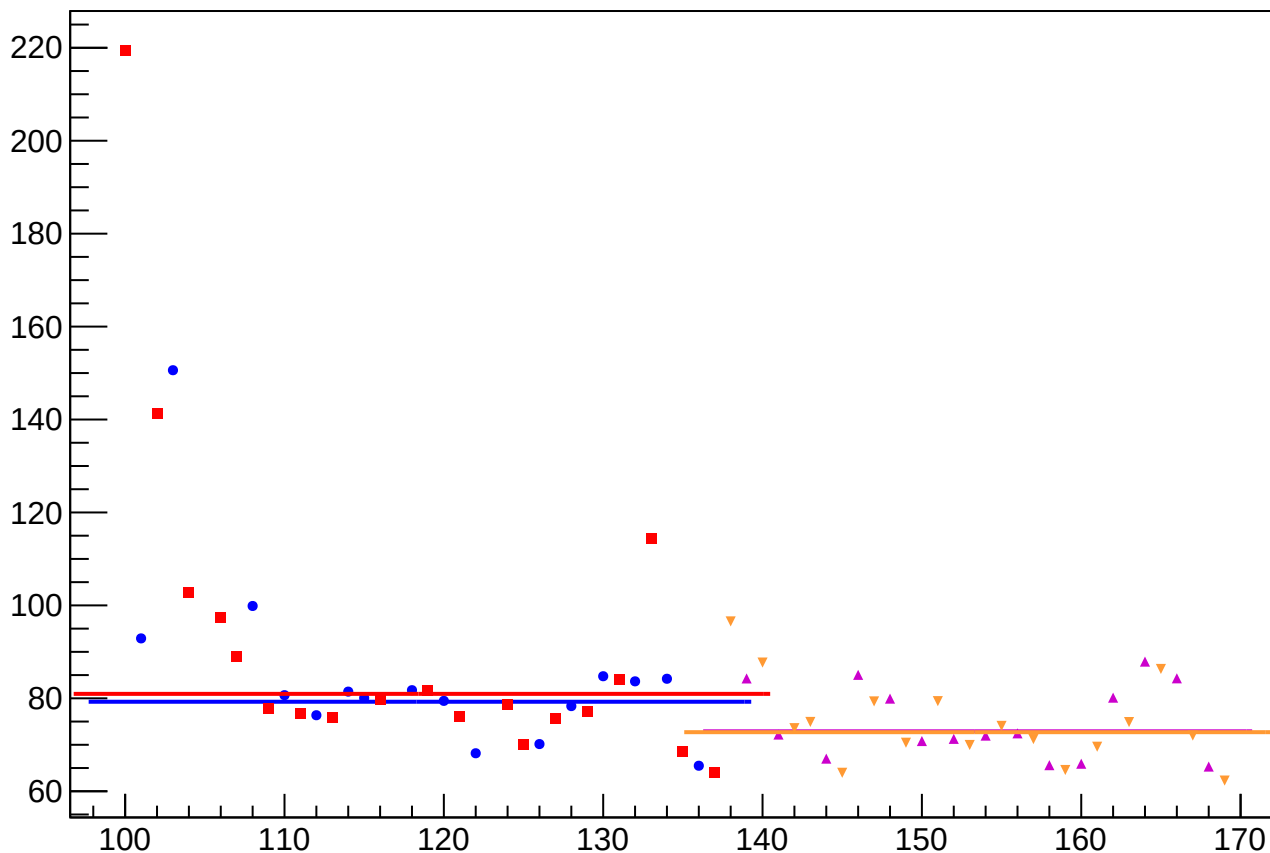
Right: 30.512+/-21.584 χ^2/NDF : 48.2/34

In: 48.178+/-17.301 χ^2/NDF :43.4/30

Out: 33.178+/-16.853 χ^2/NDF :43.9/35

All: 40.482+/-12.072 χ^2/NDF : 87.7/66

eigen_dit_asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 79.263 $\pm$ 0.021 χ^2 /NDF: 444948.4/15

Left Out: 72.714 $\pm$ 0.014 χ^2 /NDF:303055.8/16

Right Out: 80.958 $\pm$ 0.022 χ^2 /NDF: 514191.2/18

Left In: 72.903 $\pm$ 0.015 χ^2 /NDF:222067.8/14

Left: 72.804 $\pm$ 0.010 χ^2 /NDF: 525207.9/31

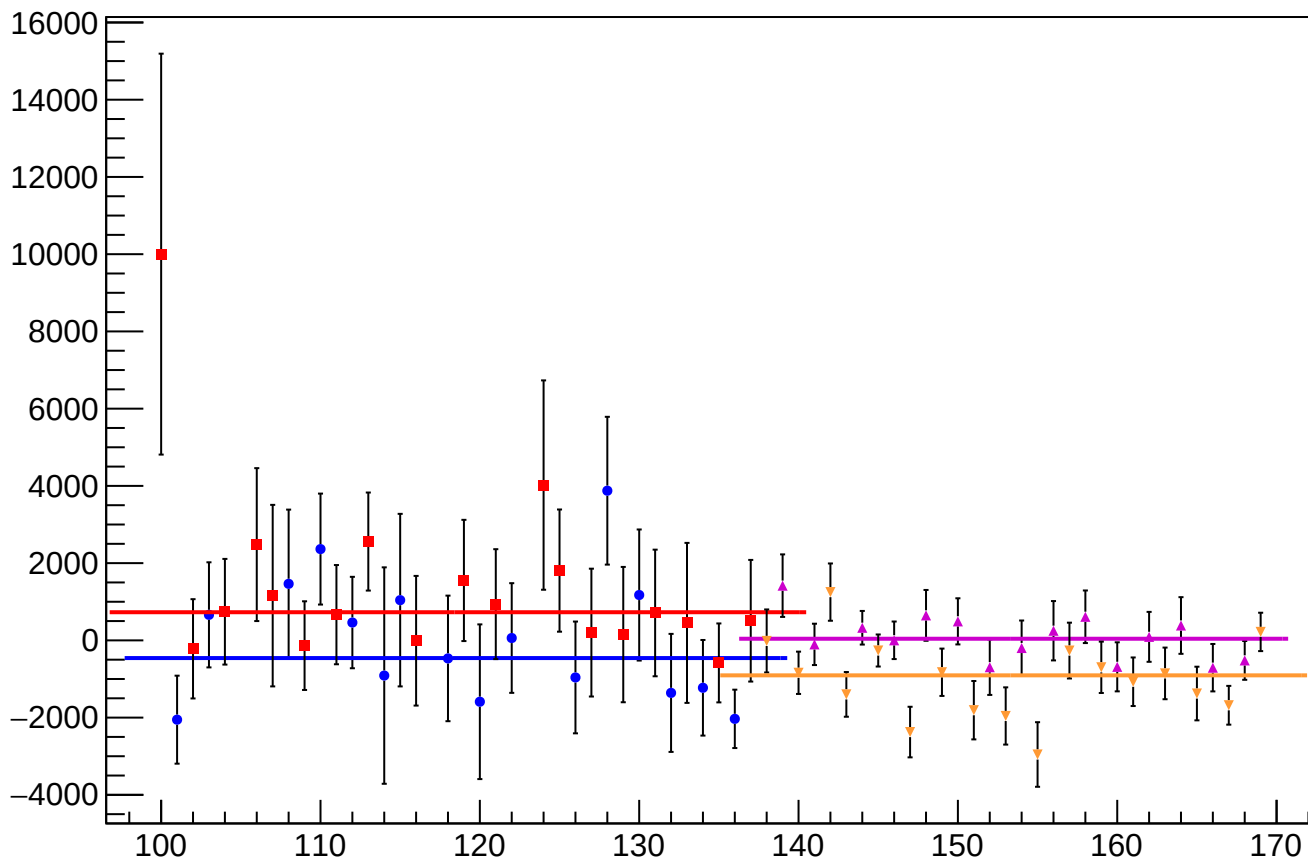
Right: 80.100 $\pm$ 0.015 χ^2 /NDF: 962223.7/34

In: 74.970 $\pm$ 0.012 χ^2 /NDF:726311.7/30

Out: 75.197 $\pm$ 0.012 χ^2 /NDF:917991.5/35

All: 75.087 $\pm$ 0.009 χ^2 /NDF: 1644480.0/66

asym_sam_12345678_avg_eigen_dit_correction_mean vs Slug, Sign Corrected



Right In: -458.104+/-350.074 χ^2/NDF : 20.3/15

Left Out: -905.635+/-149.954 χ^2/NDF :36.2/16

Right Out: 728.749+/-352.573 χ^2/NDF : 11.5/18

Left In: 42.178+/-156.660 χ^2/NDF :11.0/14

Left: -452.450+/-108.327 χ^2/NDF : 66.3/31

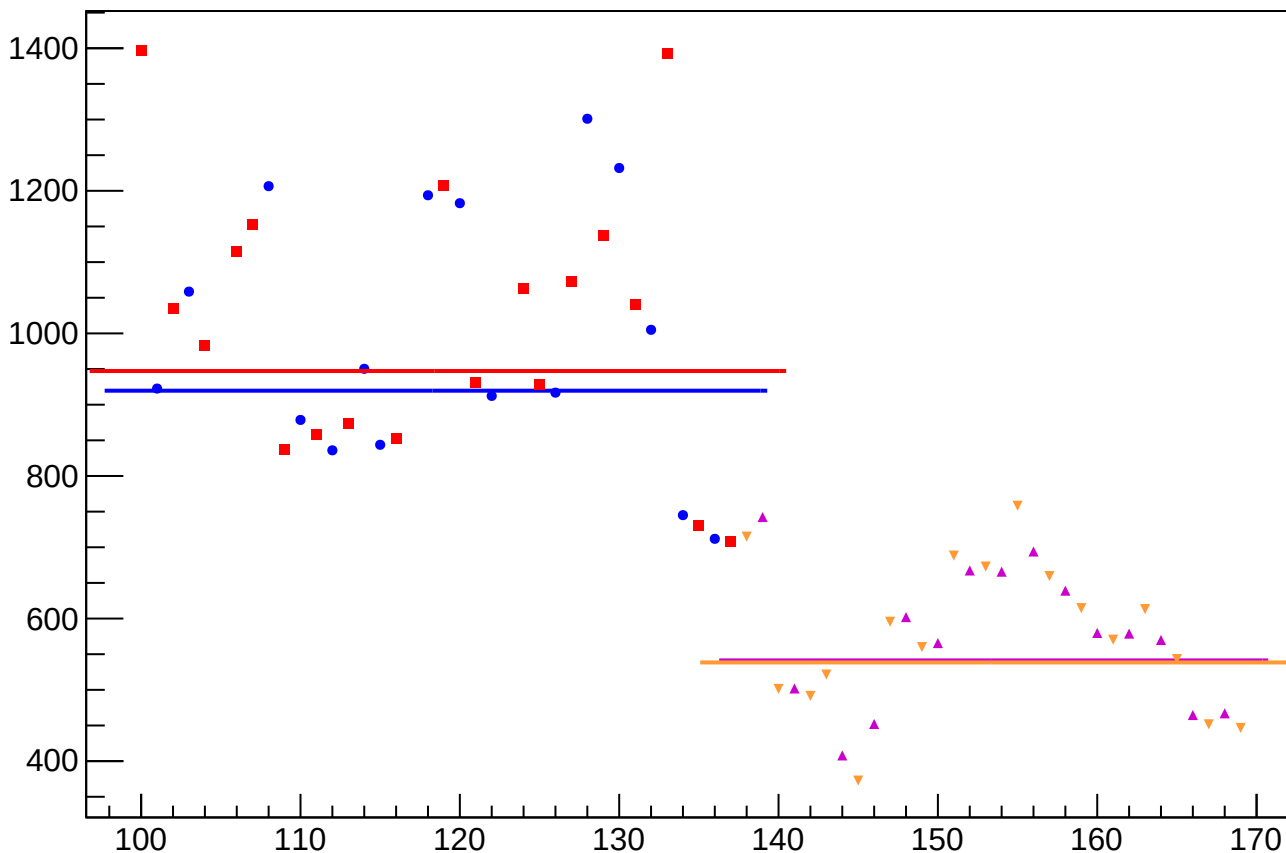
Right: 131.102+/-248.419 χ^2/NDF : 37.5/34

In: -41.294+/-142.995 χ^2/NDF :33.0/30

Out: -655.278+/-137.991 χ^2/NDF :65.9/35

All: -359.215+/-99.296 χ^2/NDF : 108.5/66

asym_sam_12345678_avg_eigen_dit_correction_rms vs Slug, Sign Corrected



Right In: 919.636 ± 0.248 $\chi^2/\text{NDF}: 515443.9/15$

Left Out: 538.444 ± 0.106 $\chi^2/\text{NDF}: 972663.9/16$

Right Out: 947.270 ± 0.249 $\chi^2/\text{NDF}: 425565.2/18$

Left In: 541.295 ± 0.111 $\chi^2/\text{NDF}: 744649.7/14$

Left: 539.807 ± 0.077 $\chi^2/\text{NDF}: 1717659.4/31$

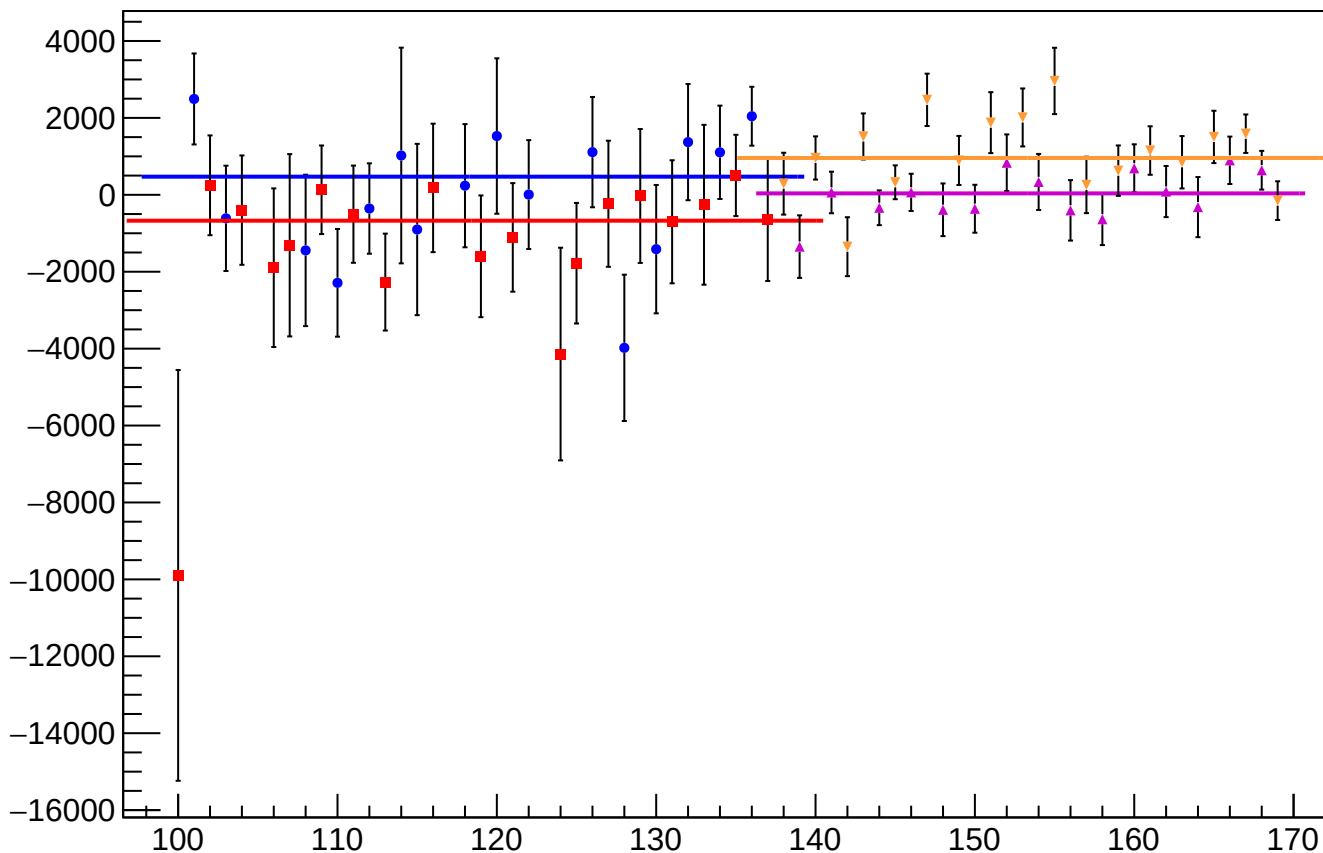
Right: 933.355 ± 0.176 $\chi^2/\text{NDF}: 947195.7/34$

In: 604.421 ± 0.101 $\chi^2/\text{NDF}: 3206353.2/30$

Out: 601.068 ± 0.098 $\chi^2/\text{NDF}: 3675422.3/35$

All: 602.685 ± 0.070 $\chi^2/\text{NDF}: 6882344.7/66$

asym_sam_12345678_avg_mean vs Slug, Sign Corrected



Right In: 472.014 $\pm$ 350.376 χ^2 /NDF: 21.5/15

Left Out: 957.102 $\pm$ 153.143 χ^2 /NDF:34.7/16

Right Out: -672.537 $\pm$ 354.512 χ^2 /NDF: 10.3/18

Left In: 36.949 $\pm$ 159.283 χ^2 /NDF:11.7/14

Left: 515.103 $\pm$ 110.395 χ^2 /NDF: 63.8/31

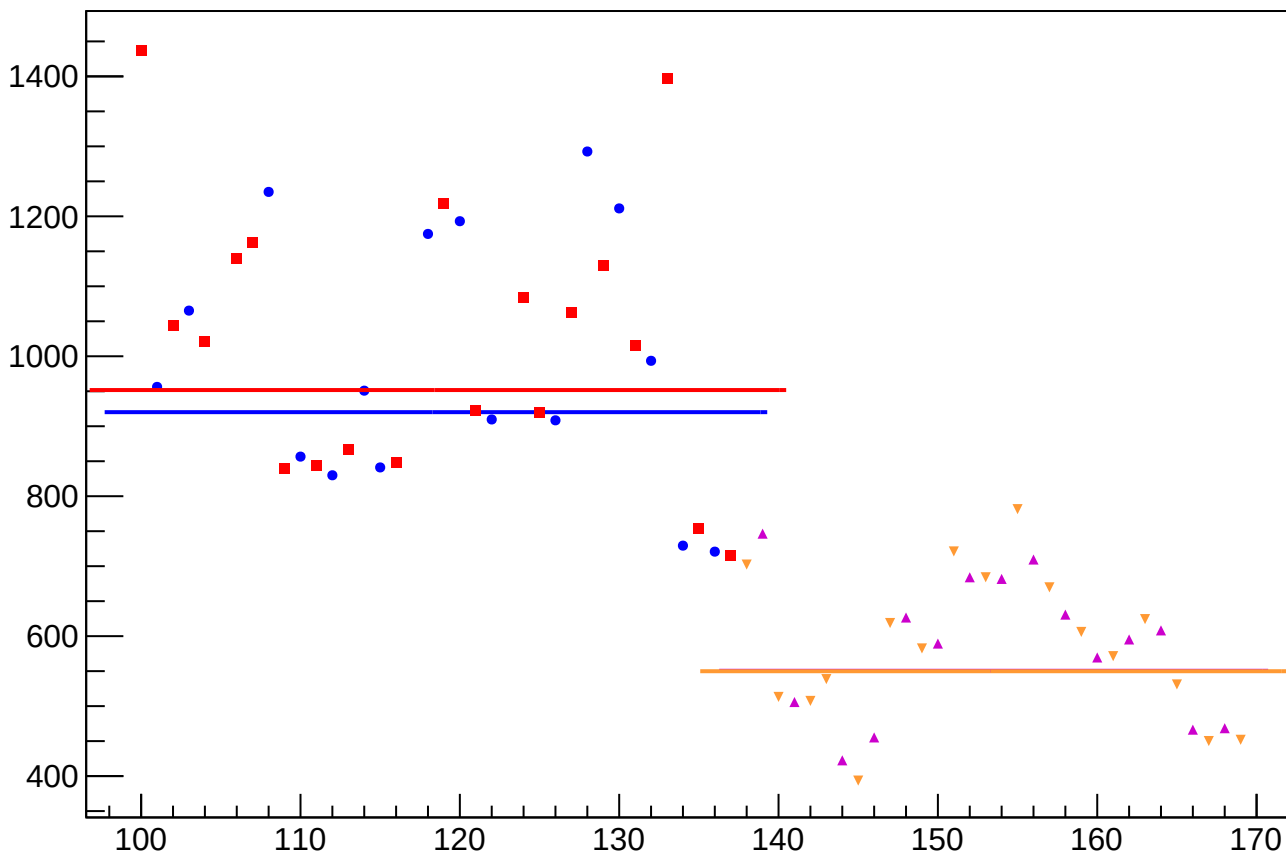
Right: -93.545 $\pm$ 249.203 χ^2 /NDF: 37.1/34

In: 111.463 $\pm$ 145.003 χ^2 /NDF:34.5/30

Out: 700.822 $\pm$ 140.587 χ^2 /NDF:62.8/35

All: 415.254 $\pm$ 100.935 χ^2 /NDF: 105.8/66

asym_sam_12345678_avg_rms vs Slug, Sign Corrected



Right In: 920.125+/-0.248 χ^2/NDF : 508678.6/15

Left Out: 549.882+/-0.108 χ^2/NDF : 917342.1/16

Right Out: 951.726+/-0.251 χ^2/NDF : 416116.3/18

Left In: 550.506+/-0.113 χ^2/NDF : 753697.5/14

Left: 550.182+/-0.078 χ^2/NDF : 1671055.5/31

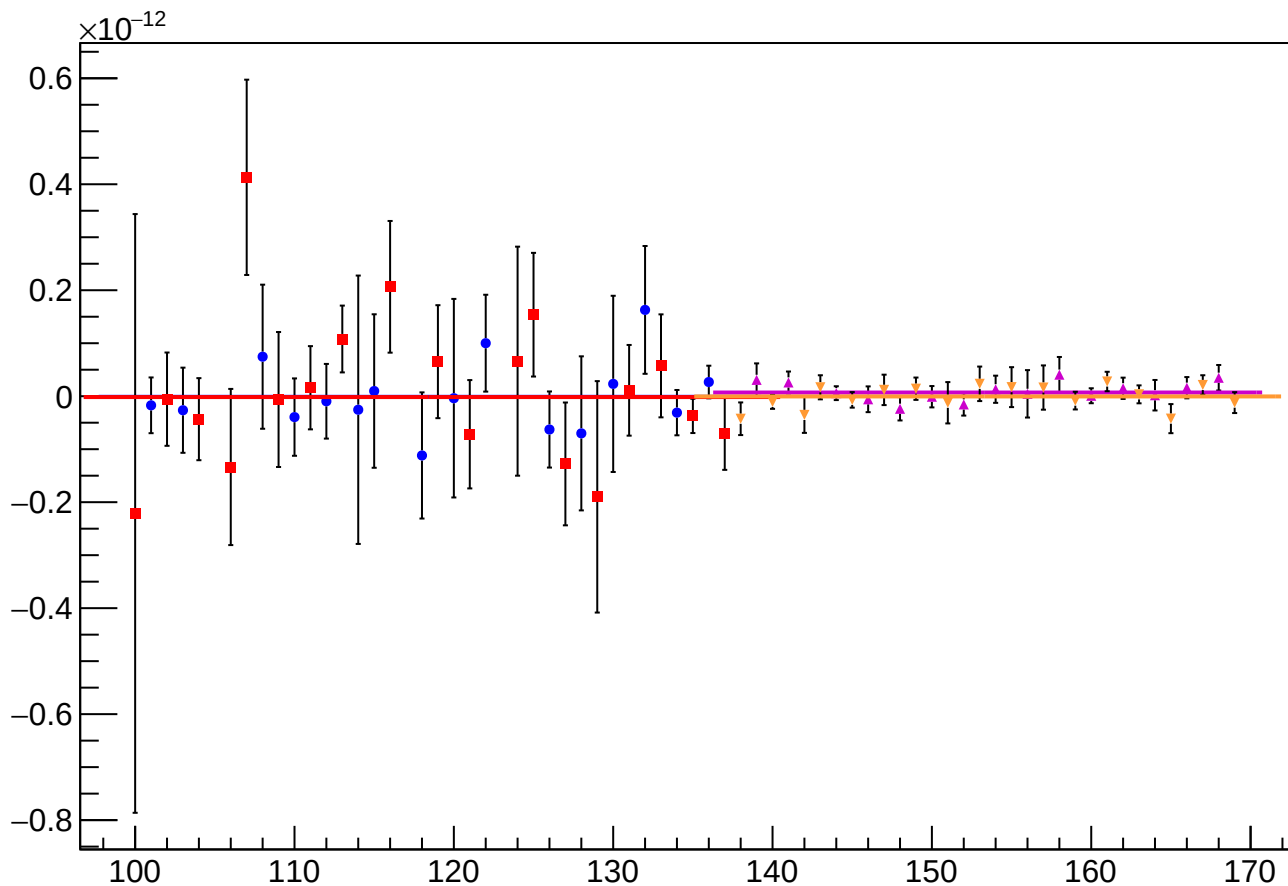
Right: 935.740+/-0.176 χ^2/NDF : 932834.0/34

In: 613.811+/-0.103 χ^2/NDF : 3106898.1/30

Out: 613.077+/-0.099 χ^2/NDF : 3499042.3/35

All: 613.433+/-0.071 χ^2/NDF : 6605966.7/66

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000 χ^2/NDF : 7.0/15

Left Out: -0.000+/-0.000 χ^2/NDF :12.7/16

Right Out: -0.000+/-0.000 χ^2/NDF : 19.4/18

Left In: 0.000+/-0.000 χ^2/NDF :8.0/14

Left: 0.000+/-0.000 χ^2/NDF : 21.6/31

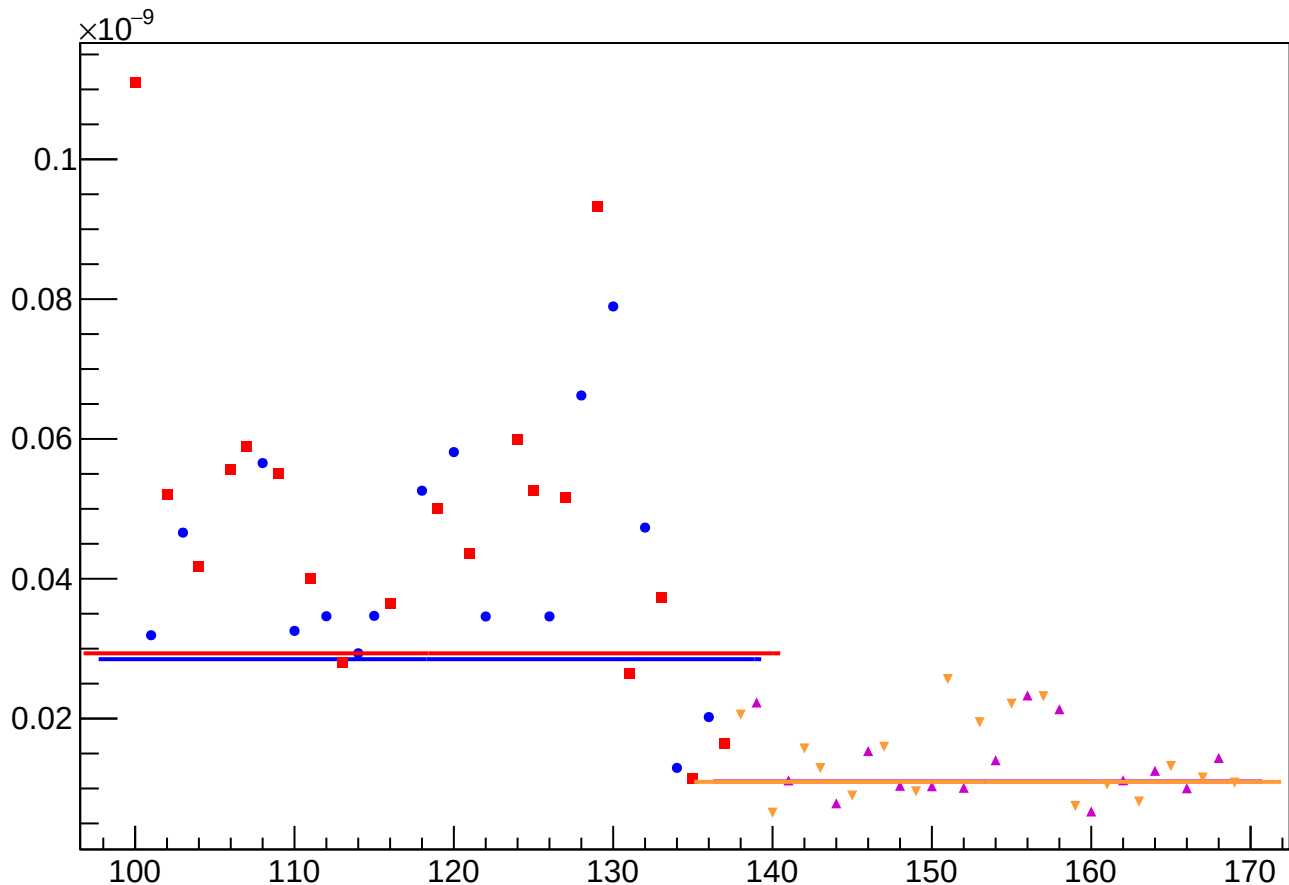
Right: -0.000+/-0.000 χ^2/NDF : 26.5/34

In: 0.000+/-0.000 χ^2/NDF :15.2/30

Out: -0.000+/-0.000 χ^2/NDF :32.1/35

All: 0.000+/-0.000 χ^2/NDF : 48.2/66

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 1152293.4/15

Left Out: 0.000+/-0.000 χ^2/NDF : 1510314.5/16

Right Out: 0.000+/-0.000 χ^2/NDF : 1645968.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 1056241.9/14

Left: 0.000+/-0.000 χ^2/NDF : 2566703.7/31

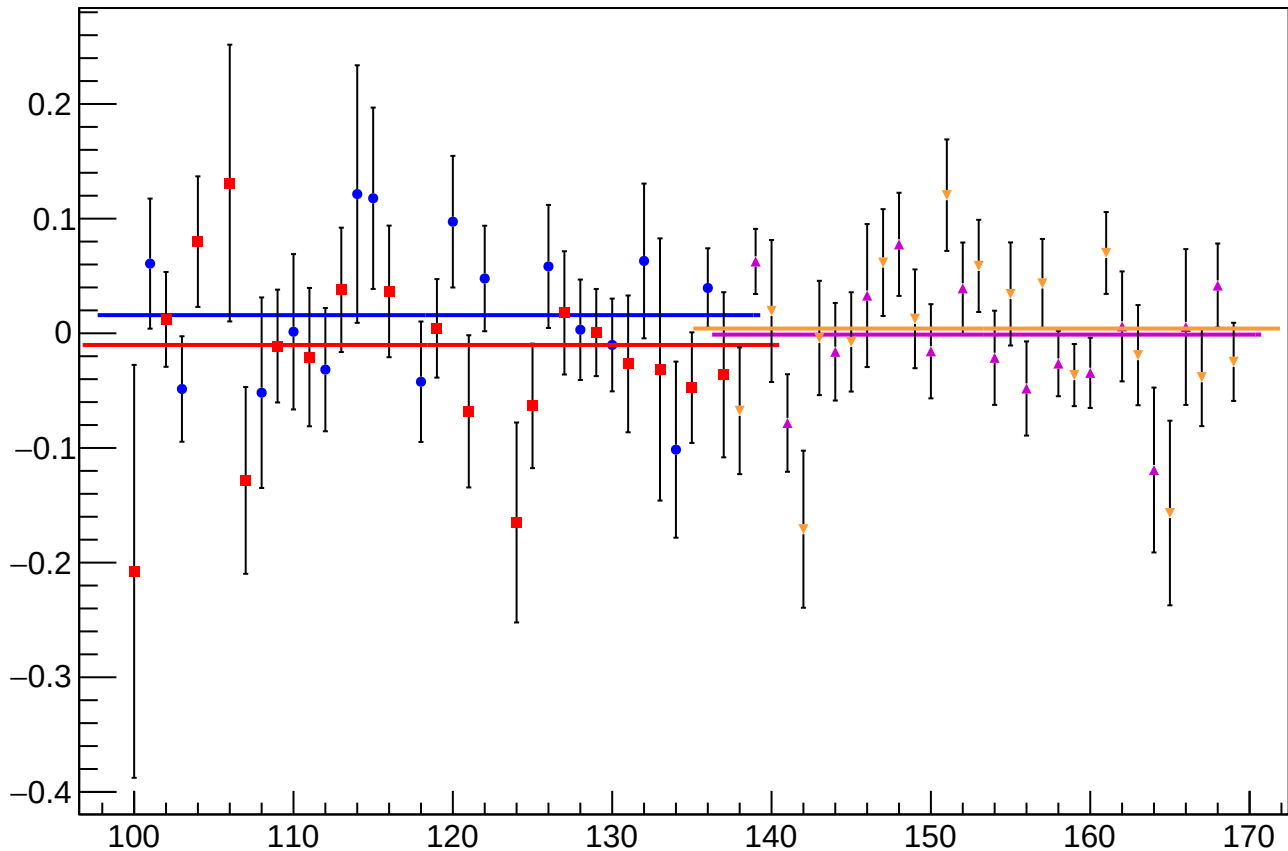
Right: 0.000+/-0.000 χ^2/NDF : 2800314.7/34

In: 0.000+/-0.000 χ^2/NDF : 3988184.2/30

Out: 0.000+/-0.000 χ^2/NDF : 4856953.5/35

All: 0.000+/-0.000 χ^2/NDF : 8849861.6/66

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.016 ± 0.013 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.004 ± 0.010 $\chi^2/\text{NDF}: 30.6/16$

Right Out: -0.010 ± 0.013 $\chi^2/\text{NDF}: 15.1/18$

Left In: -0.001 ± 0.010 $\chi^2/\text{NDF}: 20.6/14$

Left: 0.001 ± 0.007 $\chi^2/\text{NDF}: 51.4/31$

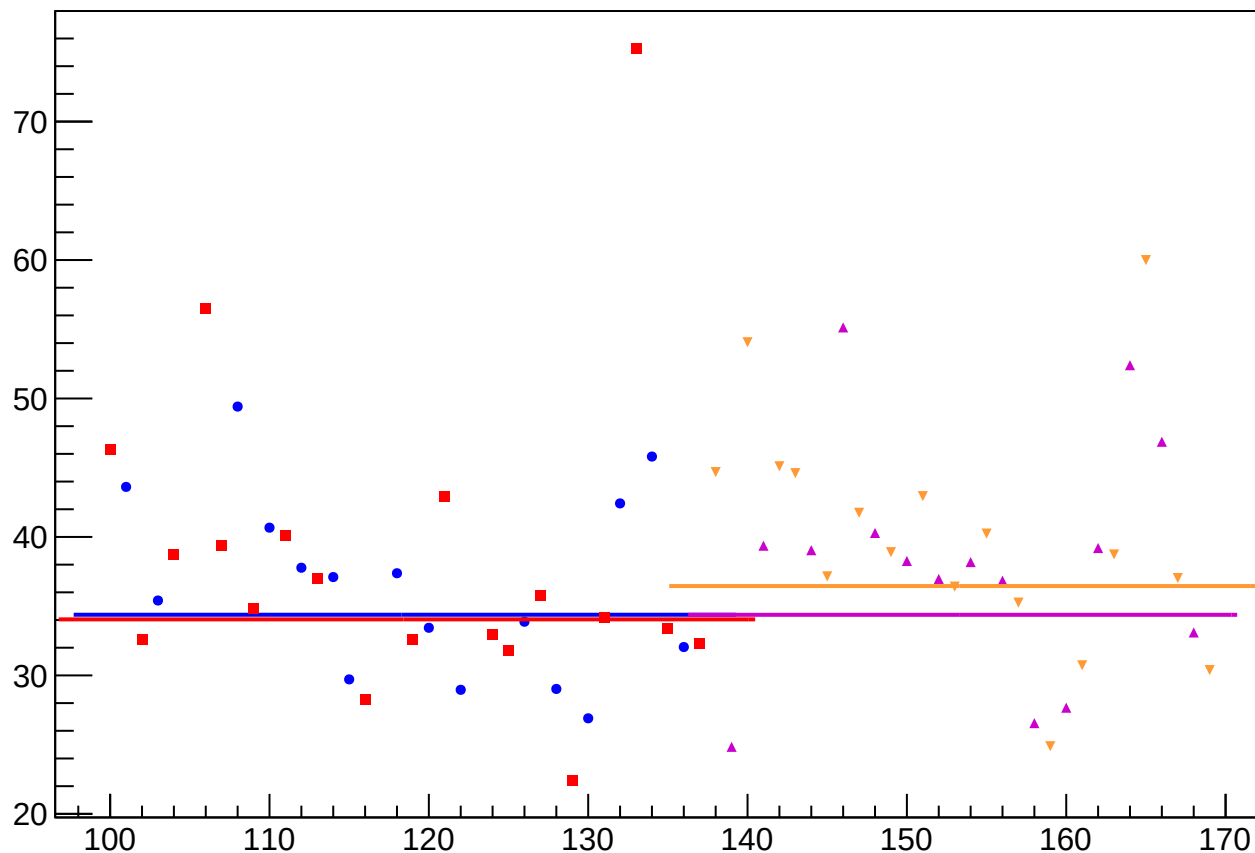
Right: 0.003 ± 0.009 $\chi^2/\text{NDF}: 31.8/34$

In: 0.005 ± 0.008 $\chi^2/\text{NDF}: 36.4/30$

Out: -0.001 ± 0.008 $\chi^2/\text{NDF}: 46.5/35$

All: 0.002 ± 0.006 $\chi^2/\text{NDF}: 83.2/66$

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.382+/-0.009 χ^2/NDF : 367883.0/15

Left Out: 36.454+/-0.007 χ^2/NDF : 1032458.8/16

Right Out: 34.047+/-0.009 χ^2/NDF : 642697.3/18

Left In: 34.377+/-0.007 χ^2/NDF : 1046340.4/14

Left: 35.403+/-0.005 χ^2/NDF : 2118830.1/31

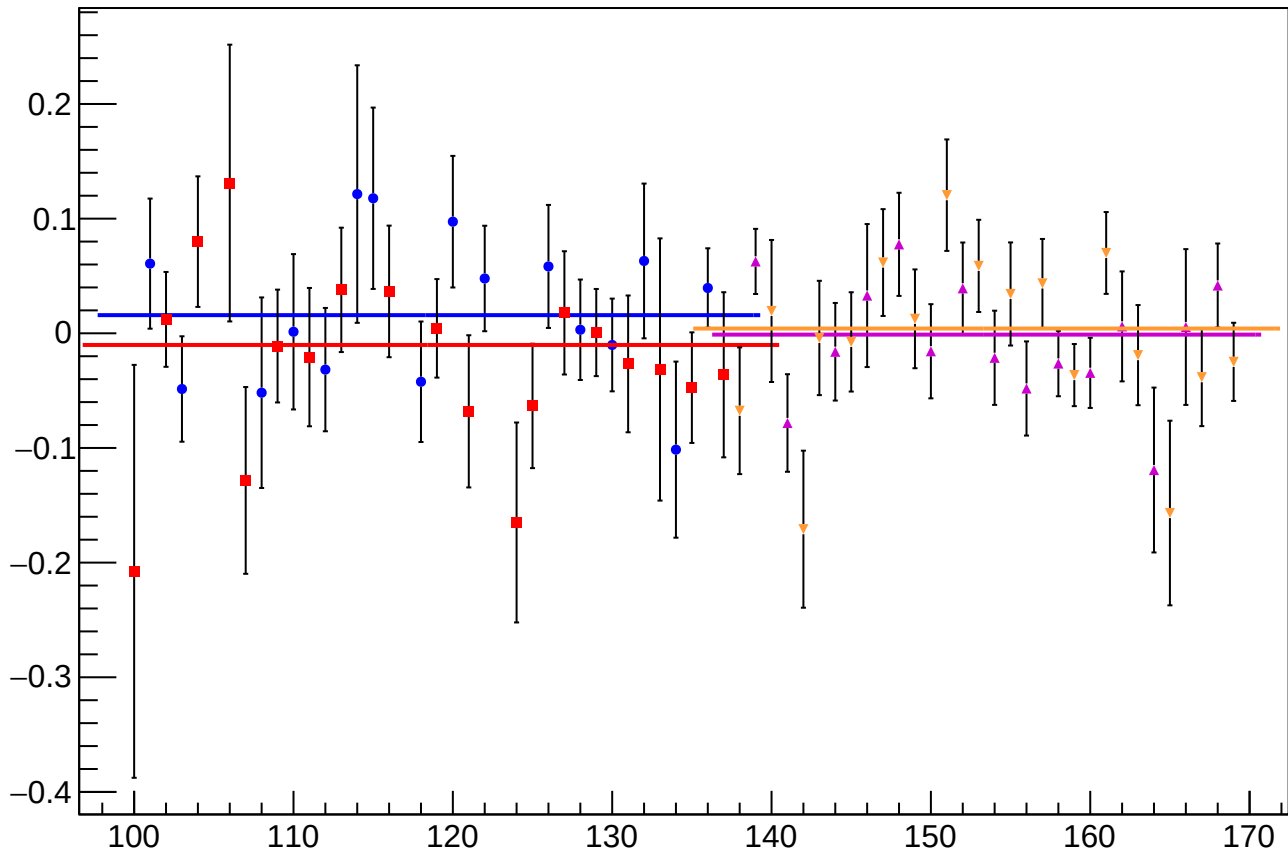
Right: 34.212+/-0.007 χ^2/NDF : 1011212.4/34

In: 34.379+/-0.006 χ^2/NDF : 1414223.6/30

Out: 35.528+/-0.006 χ^2/NDF : 1716020.2/35

All: 34.952+/-0.004 χ^2/NDF : 3149983.1/66

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.016 ± 0.013 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.004 ± 0.010 $\chi^2/\text{NDF}: 30.6/16$

Right Out: -0.010 ± 0.013 $\chi^2/\text{NDF}: 15.1/18$

Left In: -0.001 ± 0.010 $\chi^2/\text{NDF}: 20.6/14$

Left: 0.001 ± 0.007 $\chi^2/\text{NDF}: 51.4/31$

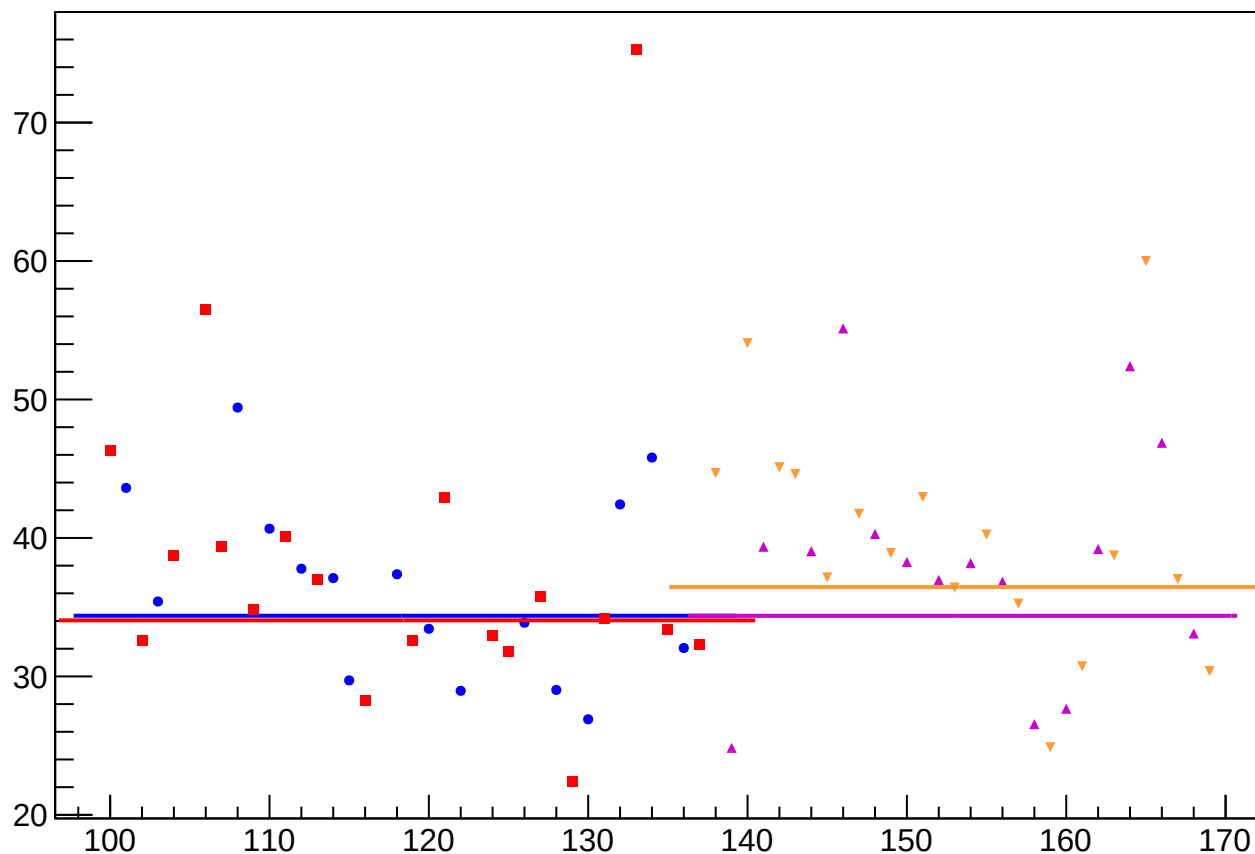
Right: 0.003 ± 0.009 $\chi^2/\text{NDF}: 31.8/34$

In: 0.005 ± 0.008 $\chi^2/\text{NDF}: 36.4/30$

Out: -0.001 ± 0.008 $\chi^2/\text{NDF}: 46.5/35$

All: 0.002 ± 0.006 $\chi^2/\text{NDF}: 83.2/66$

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.382+/-0.009 χ^2/NDF : 367883.0/15

Left Out: 36.454+/-0.007 χ^2/NDF : 1032458.8/16

Right Out: 34.047+/-0.009 χ^2/NDF : 642697.3/18

Left In: 34.377+/-0.007 χ^2/NDF : 1046340.4/14

Left: 35.403+/-0.005 χ^2/NDF : 2118830.1/31

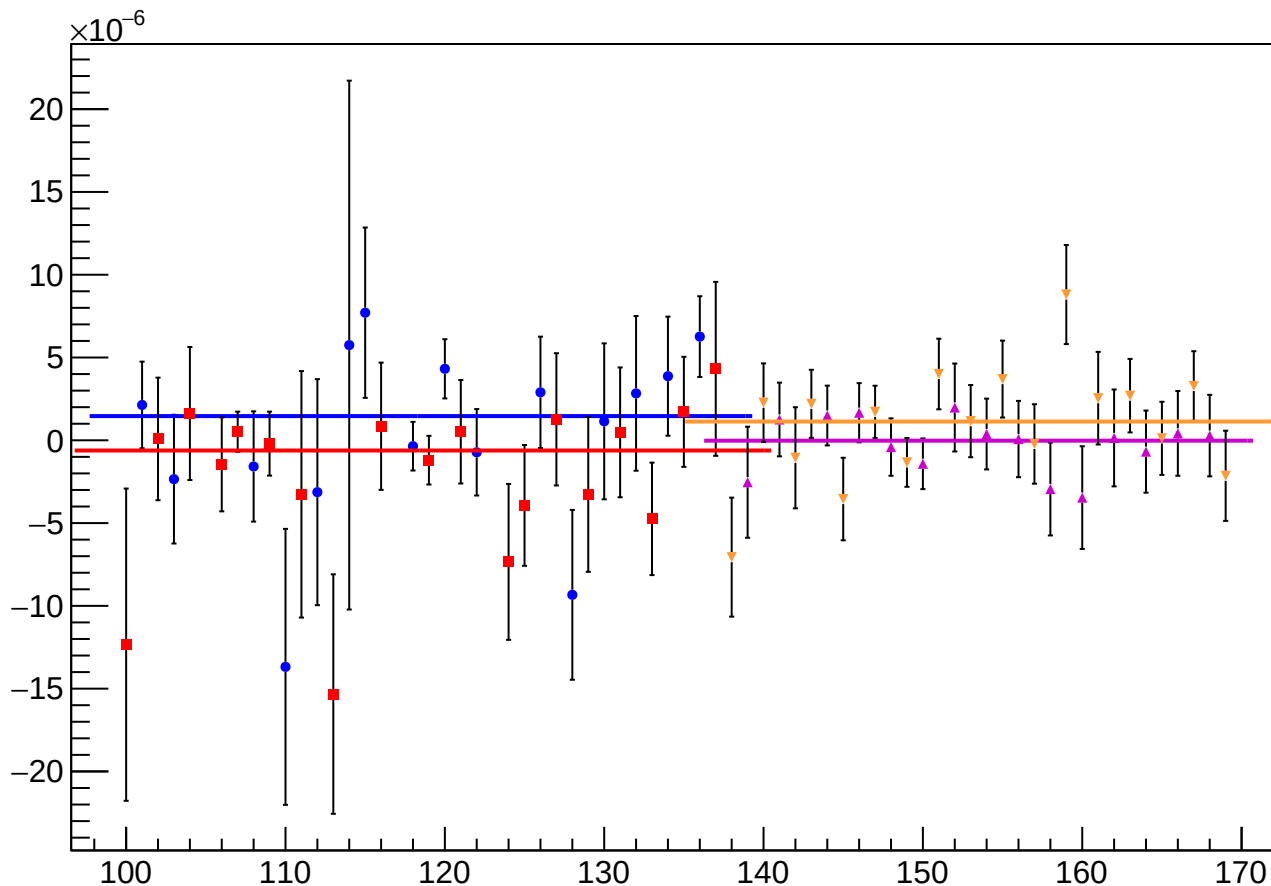
Right: 34.212+/-0.007 χ^2/NDF : 1011212.4/34

In: 34.379+/-0.006 χ^2/NDF : 1414223.6/30

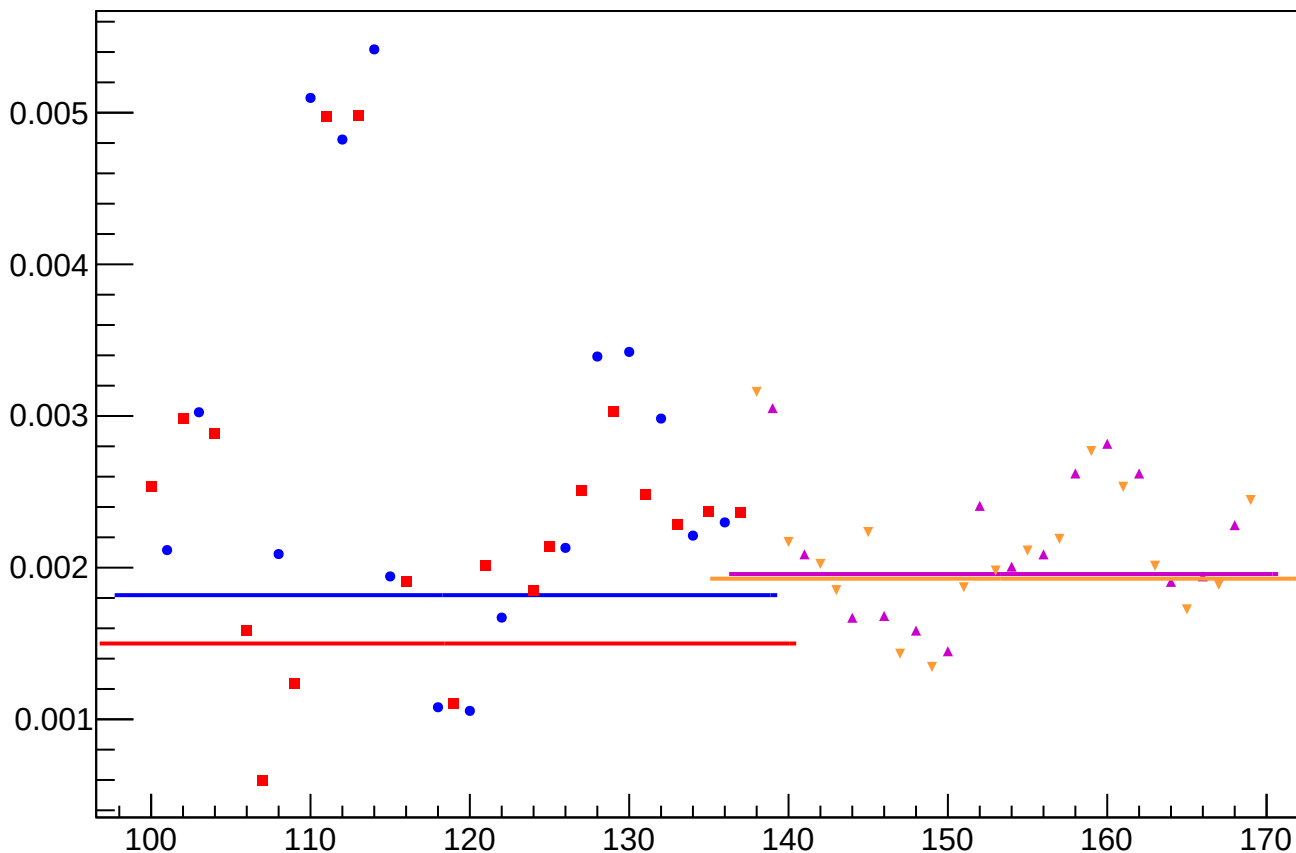
Out: 35.528+/-0.006 χ^2/NDF : 1716020.2/35

All: 34.952+/-0.004 χ^2/NDF : 3149983.1/66

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected



asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2570250.6/15

Left Out: 0.002+/-0.000 χ^2/NDF :1184386.1/16

Right Out: 0.001+/-0.000 χ^2/NDF : 3689451.2/18

Left In: 0.002+/-0.000 χ^2/NDF :1099390.8/14

Left: 0.002+/-0.000 χ^2/NDF : 2286806.6/31

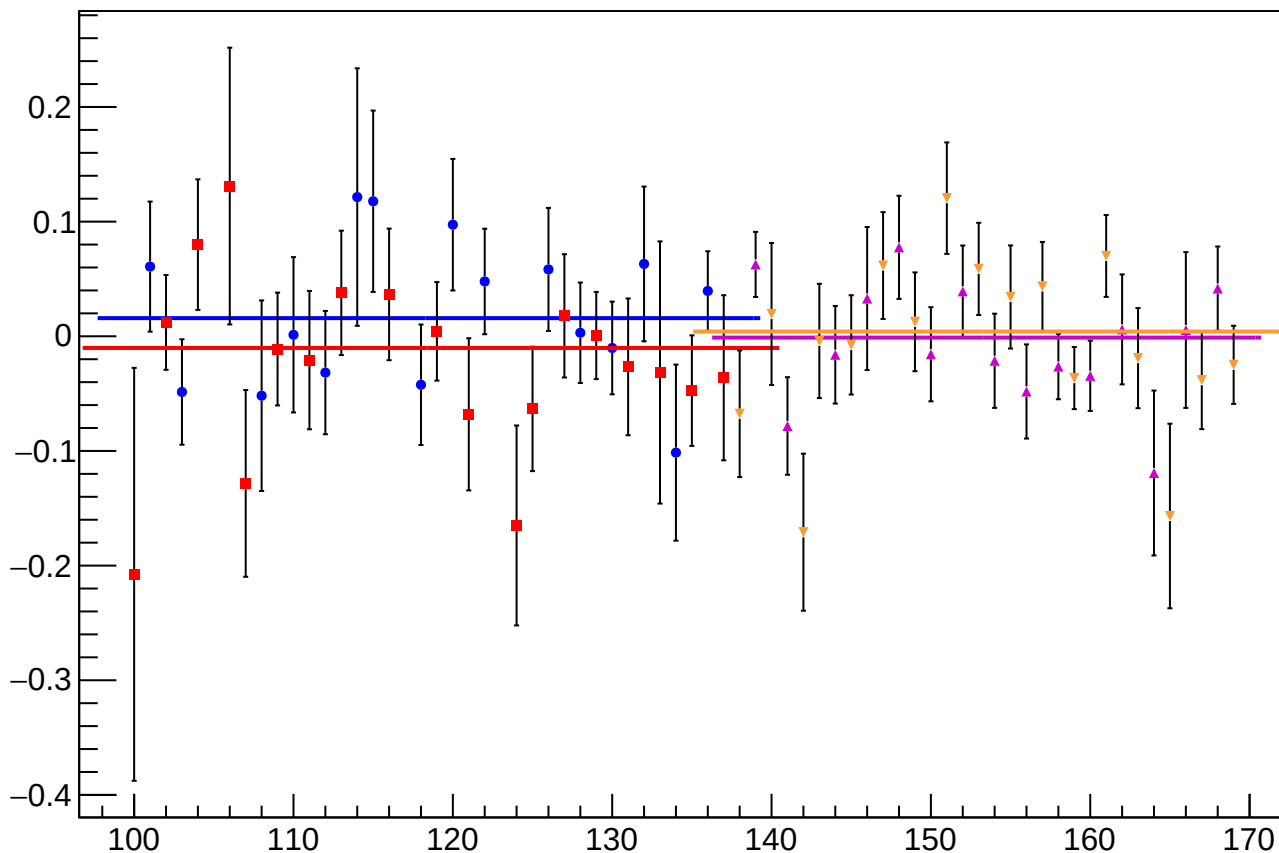
Right: 0.002+/-0.000 χ^2/NDF : 6466308.5/34

In: 0.002+/-0.000 χ^2/NDF :3713019.3/30

Out: 0.002+/-0.000 χ^2/NDF :5388779.7/35

All: 0.002+/-0.000 χ^2/NDF : 9229143.3/66

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.016 ± 0.013 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.004 ± 0.010 $\chi^2/\text{NDF}: 30.6/16$

Right Out: -0.010 ± 0.013 $\chi^2/\text{NDF}: 15.1/18$

Left In: -0.001 ± 0.010 $\chi^2/\text{NDF}: 20.6/14$

Left: 0.001 ± 0.007 $\chi^2/\text{NDF}: 51.4/31$

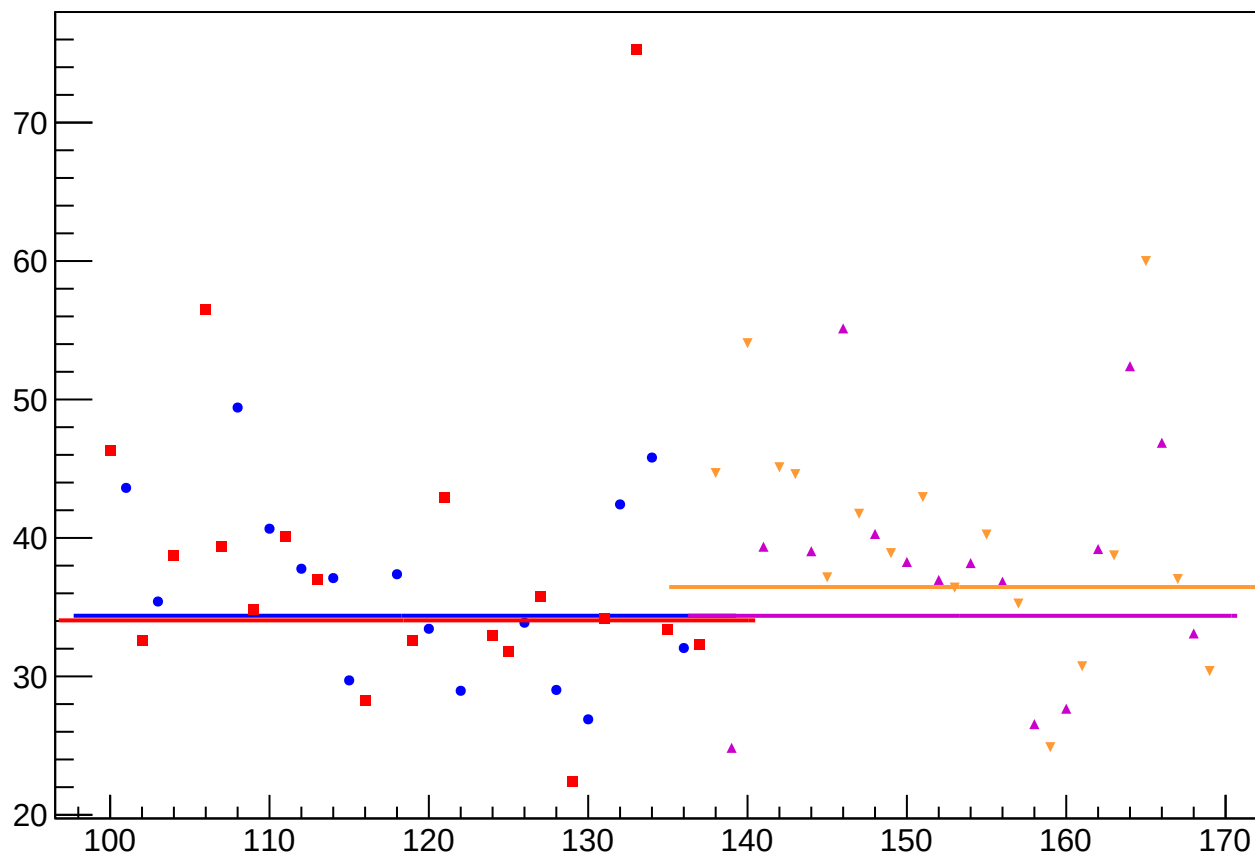
Right: 0.003 ± 0.009 $\chi^2/\text{NDF}: 31.8/34$

In: 0.005 ± 0.008 $\chi^2/\text{NDF}: 36.4/30$

Out: -0.001 ± 0.008 $\chi^2/\text{NDF}: 46.5/35$

All: 0.002 ± 0.006 $\chi^2/\text{NDF}: 83.2/66$

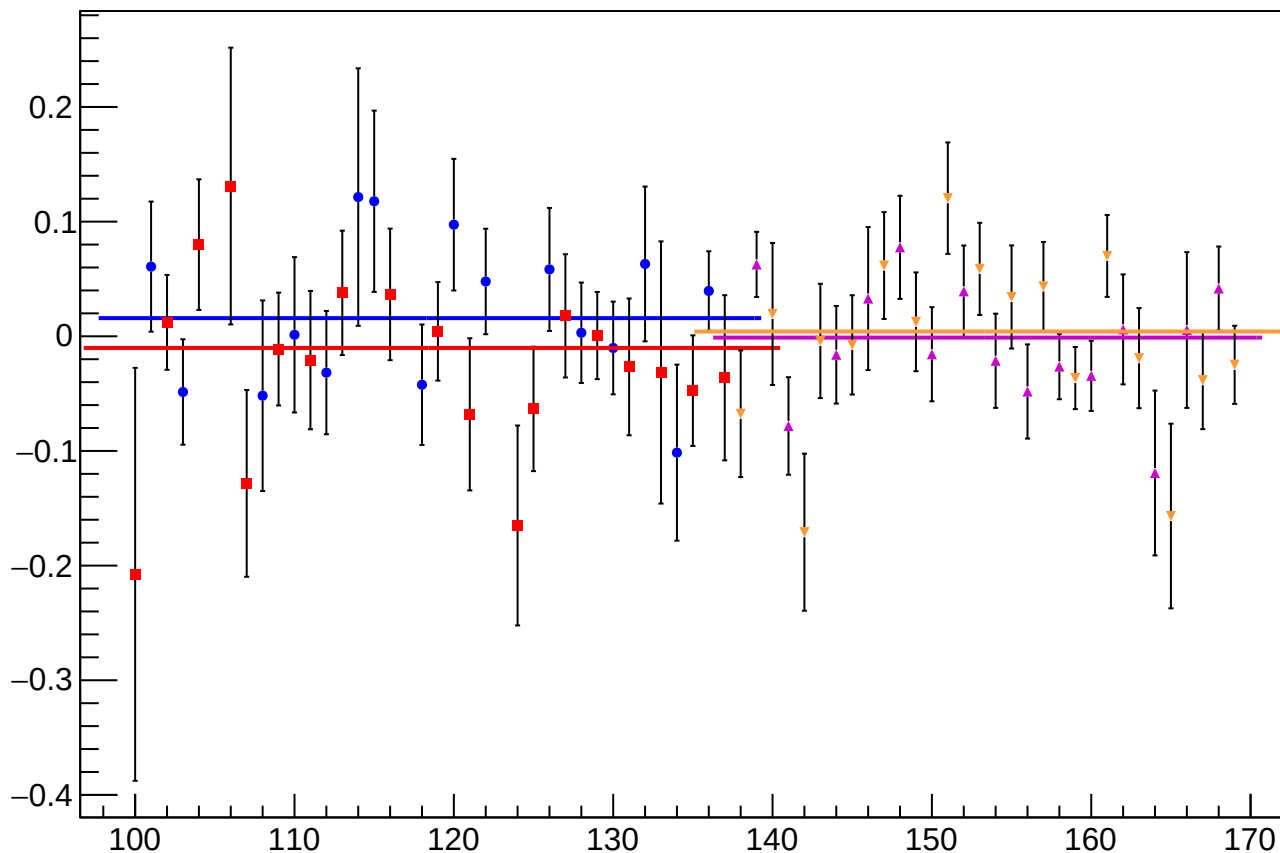
asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.381+/-0.009 χ^2/NDF : 367940.1/15
 Left Out: 36.454+/-0.007 χ^2/NDF : 1032515.1/16
 Right Out: 34.047+/-0.009 χ^2/NDF : 642741.5/18
 Left In: 34.377+/-0.007 χ^2/NDF : 1046415.7/14

Left: 35.404+/-0.005 χ^2/NDF : 2118961.6/31
 Right: 34.212+/-0.007 χ^2/NDF : 1011312.9/34
 In: 34.379+/-0.006 χ^2/NDF : 1414355.9/30
 Out: 35.528+/-0.006 χ^2/NDF : 1716147.7/35
 All: 34.952+/-0.004 χ^2/NDF : 3150245.2/66

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.016 ± 0.013 $\chi^2/\text{NDF}: 14.8/15$

Left Out: 0.004 ± 0.010 $\chi^2/\text{NDF}: 30.6/16$

Right Out: -0.010 ± 0.013 $\chi^2/\text{NDF}: 15.1/18$

Left In: -0.001 ± 0.010 $\chi^2/\text{NDF}: 20.6/14$

Left: 0.001 ± 0.007 $\chi^2/\text{NDF}: 51.4/31$

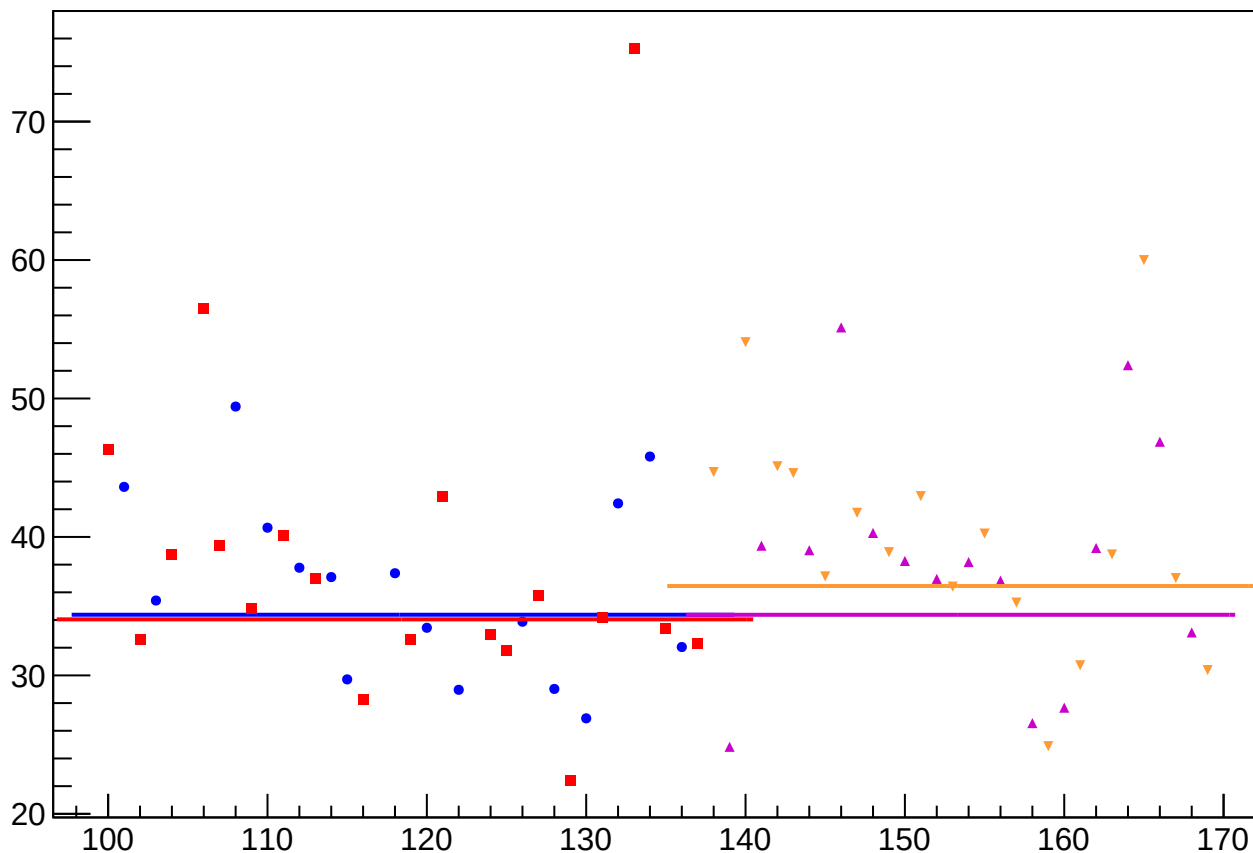
Right: 0.003 ± 0.009 $\chi^2/\text{NDF}: 31.8/34$

In: 0.005 ± 0.008 $\chi^2/\text{NDF}: 36.4/30$

Out: -0.001 ± 0.008 $\chi^2/\text{NDF}: 46.5/35$

All: 0.002 ± 0.006 $\chi^2/\text{NDF}: 83.2/66$

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected



Right In: 34.381+/-0.009 χ^2/NDF : 367940.1/15

Left Out: 36.454+/-0.007 χ^2/NDF : 1032515.1/16

Right Out: 34.047+/-0.009 χ^2/NDF : 642741.5/18

Left In: 34.377+/-0.007 χ^2/NDF : 1046415.7/14

Left: 35.404+/-0.005 χ^2/NDF : 2118961.6/31

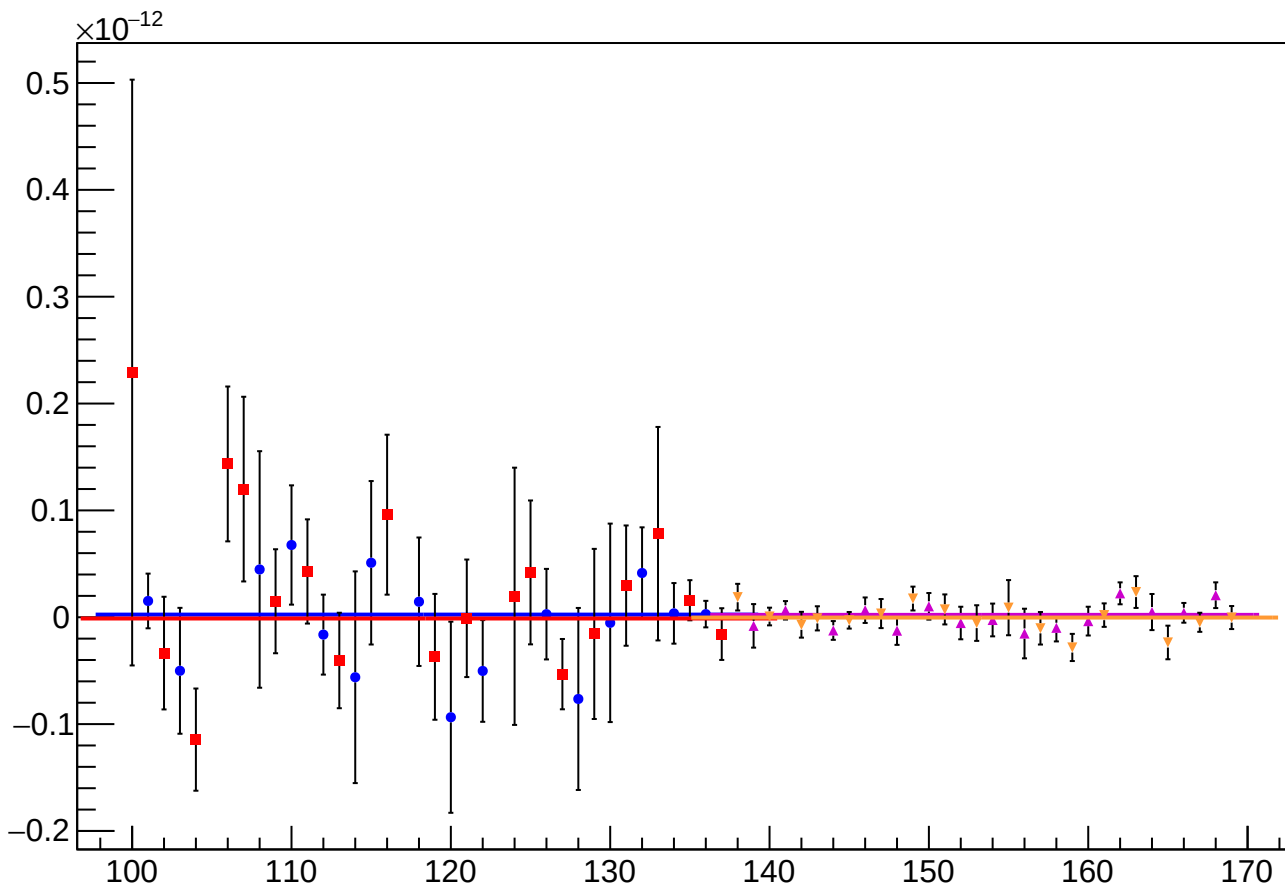
Right: 34.212+/-0.007 χ^2/NDF : 1011312.9/34

In: 34.379+/-0.006 χ^2/NDF : 1414355.9/30

Out: 35.528+/-0.006 χ^2/NDF : 1716147.7/35

All: 34.952+/-0.004 χ^2/NDF : 3150245.2/66

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 7.7/15

Left Out: -0.000+/-0.000 χ^2/NDF : 16.3/16

Right Out: -0.000+/-0.000 χ^2/NDF : 21.5/18

Left In: 0.000+/-0.000 χ^2/NDF : 13.3/14

Left: 0.000+/-0.000 χ^2/NDF : 29.9/31

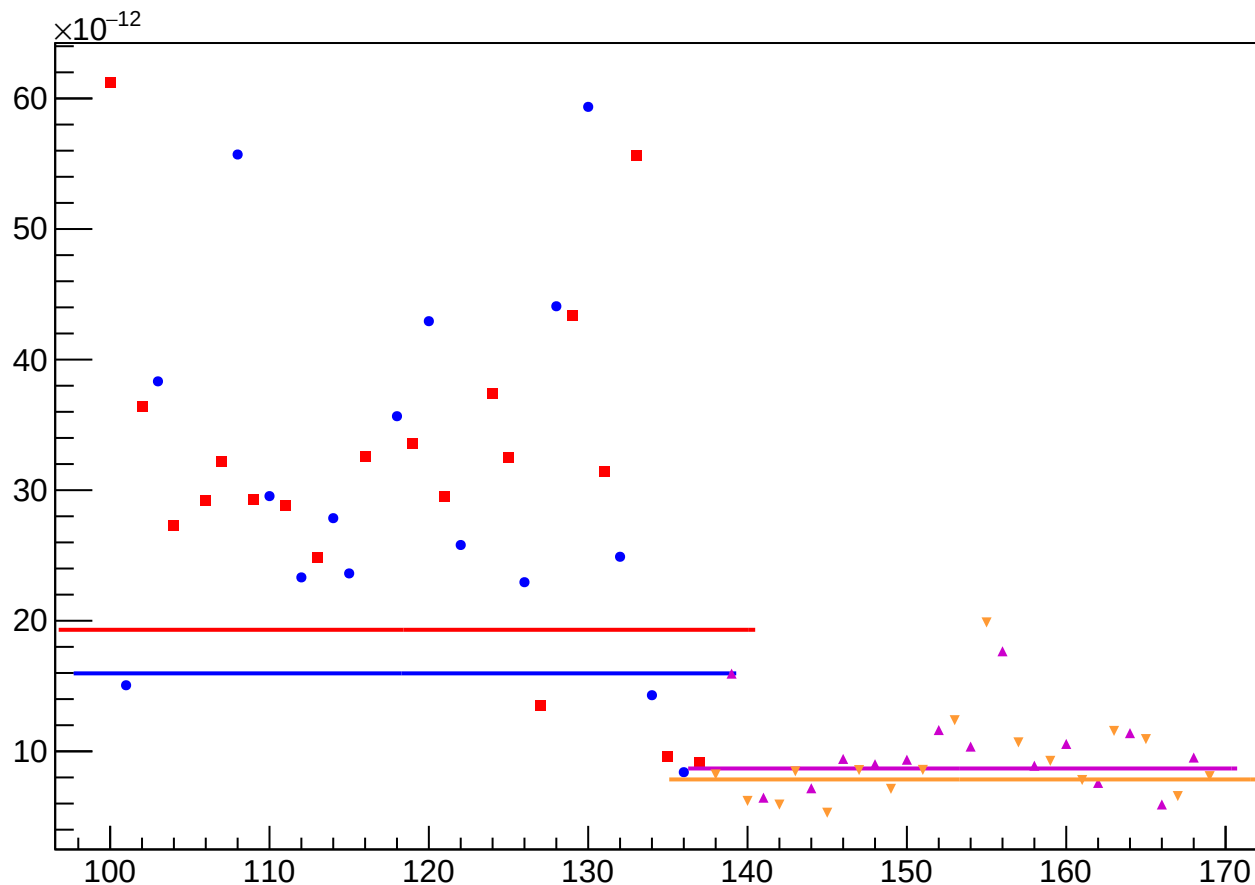
Right: 0.000+/-0.000 χ^2/NDF : 29.3/34

In: 0.000+/-0.000 χ^2/NDF : 21.0/30

Out: -0.000+/-0.000 χ^2/NDF : 37.8/35

All: 0.000+/-0.000 χ^2/NDF : 59.2/66

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 2822278.6/15

Left Out: 0.000+/-0.000 χ^2/NDF :1292751.3/16

Right Out: 0.000+/-0.000 χ^2/NDF : 2440768.5/18

Left In: 0.000+/-0.000 χ^2/NDF :1161162.2/14

Left: 0.000+/-0.000 χ^2/NDF : 2532622.9/31

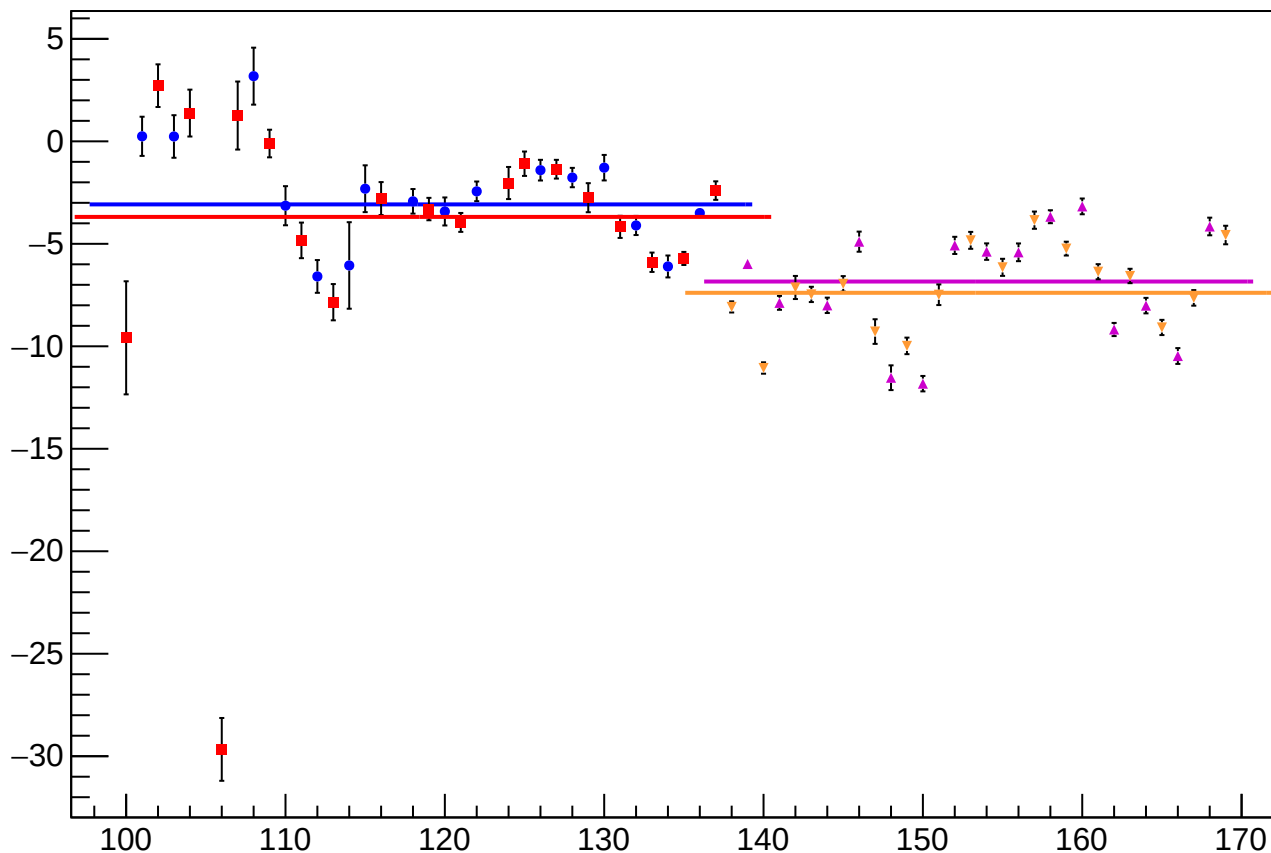
Right: 0.000+/-0.000 χ^2/NDF : 5386653.4/34

In: 0.000+/-0.000 χ^2/NDF :5219096.6/30

Out: 0.000+/-0.000 χ^2/NDF :6075431.4/35

All: 0.000+/-0.000 χ^2/NDF : 11384338.7/66

reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.077 ± 0.135 $\chi^2/\text{NDF}: 133.8/15$

Left Out: -7.390 ± 0.092 $\chi^2/\text{NDF}: 466.2/16$

Right Out: -3.687 ± 0.140 $\chi^2/\text{NDF}: 534.8/18$

Left In: -6.840 ± 0.095 $\chi^2/\text{NDF}: 705.7/14$

Left: -7.124 ± 0.066 $\chi^2/\text{NDF}: 1189.1/31$

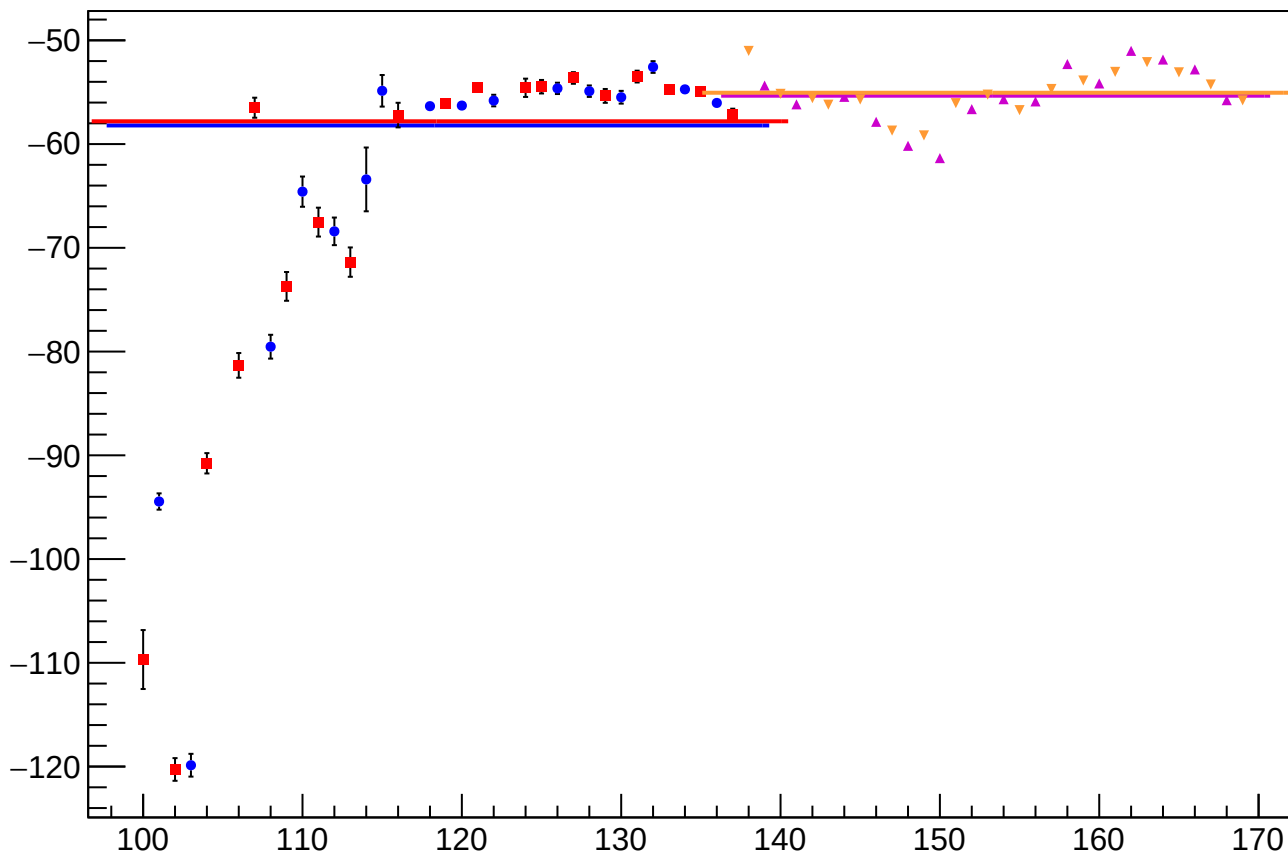
Right: -3.371 ± 0.097 $\chi^2/\text{NDF}: 678.4/34$

In: -5.589 ± 0.078 $\chi^2/\text{NDF}: 1356.5/30$

Out: -6.270 ± 0.077 $\chi^2/\text{NDF}: 1487.6/35$

All: -5.933 ± 0.055 $\chi^2/\text{NDF}: 2882.7/66$

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -58.204 ± 0.136 χ^2/NDF : 6126.9/15

Left Out: -55.052 ± 0.068 χ^2/NDF : 938.7/16

Right Out: -57.804 ± 0.138 χ^2/NDF : 5792.7/18

Left In: -55.337 ± 0.072 χ^2/NDF : 1656.6/14

Left: -55.185 ± 0.050 χ^2/NDF : 2603.6/31

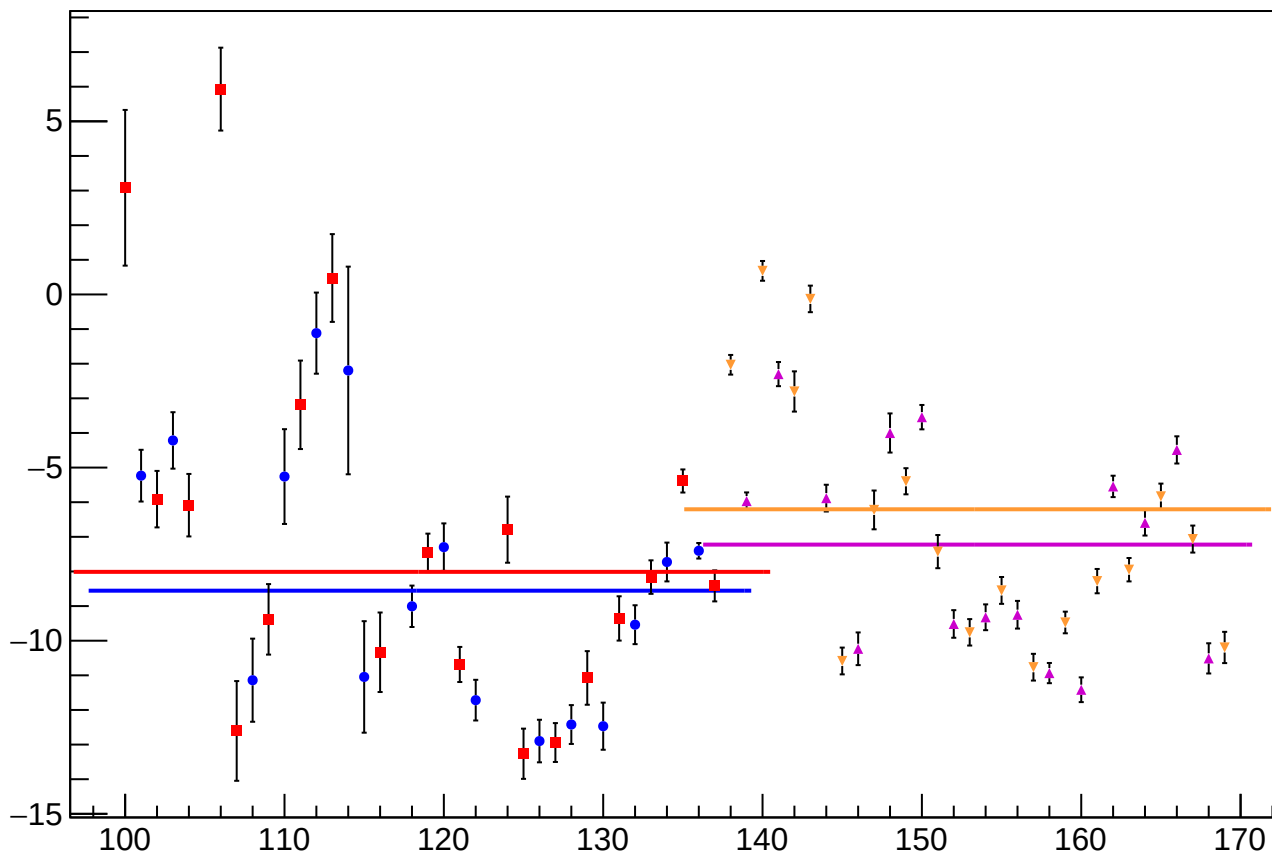
Right: -58.008 ± 0.097 χ^2/NDF : 11923.9/34

In: -55.973 ± 0.064 χ^2/NDF : 8131.6/30

Out: -55.585 ± 0.061 χ^2/NDF : 7049.8/35

All: -55.770 ± 0.044 χ^2/NDF : 15200.7/66

reg_asym_sam1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -8.555 ± 0.145 χ^2/NDF : 300.7/15

Left Out: -6.204 ± 0.091 χ^2/NDF : 1739.8/16

Right Out: -8.011 ± 0.153 χ^2/NDF : 489.3/18

Left In: -7.225 ± 0.093 χ^2/NDF : 946.5/14

Left: -6.701 ± 0.065 χ^2/NDF : 2748.1/31

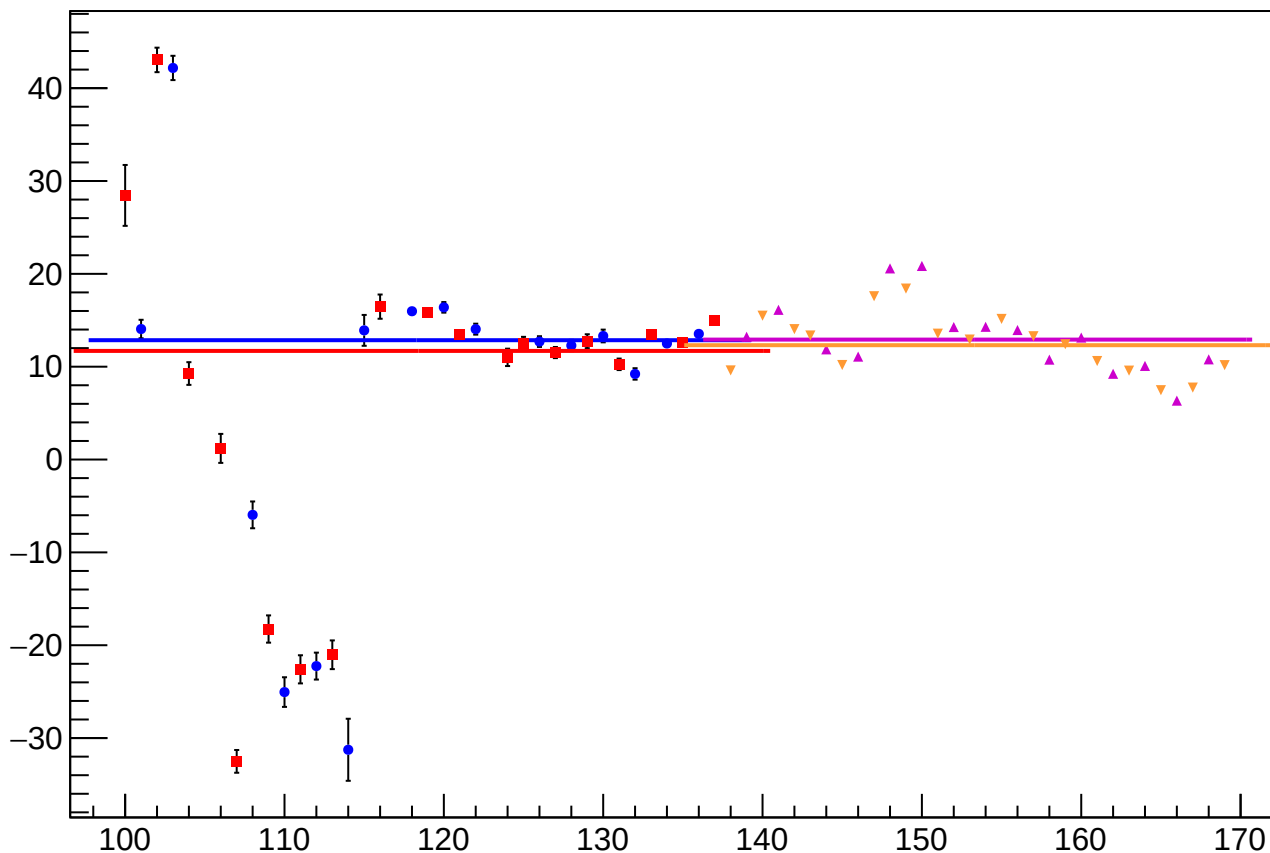
Right: -8.298 ± 0.105 χ^2/NDF : 796.7/34

In: -7.614 ± 0.078 χ^2/NDF : 1307.1/30

Out: -6.674 ± 0.078 χ^2/NDF : 2332.5/35

All: -7.142 ± 0.055 χ^2/NDF : 3712.0/66

reg_asym_sam1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 12.853 ± 0.150 χ^2/NDF : 2128.4/15

Left Out: 12.314 ± 0.077 χ^2/NDF : 1529.0/16

Right Out: 11.699 ± 0.155 χ^2/NDF : 3498.8/18

Left In: 12.918 ± 0.081 χ^2/NDF : 2044.7/14

Left: 12.600 ± 0.056 χ^2/NDF : 3602.8/31

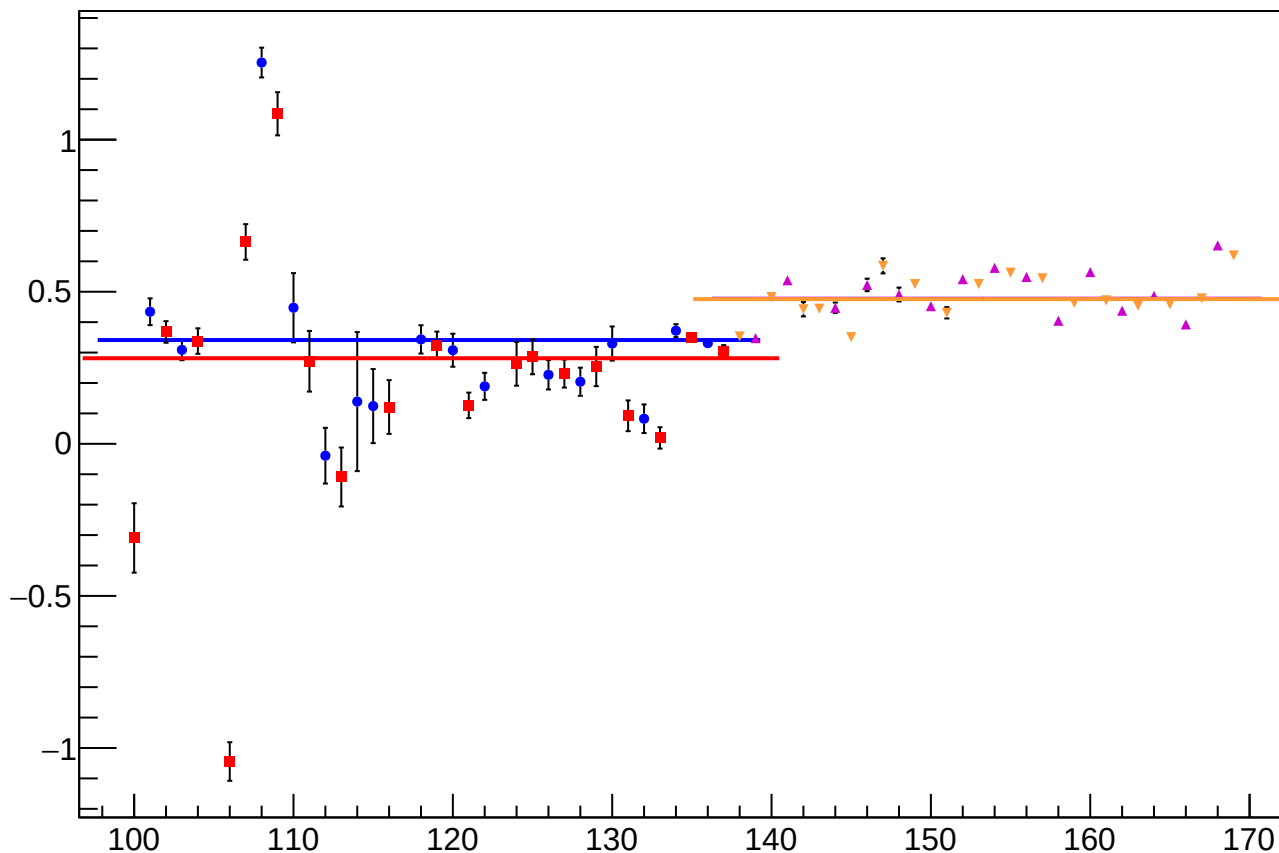
Right: 12.294 ± 0.108 χ^2/NDF : 5655.7/34

In: 12.903 ± 0.071 χ^2/NDF : 4173.2/30

Out: 12.193 ± 0.069 χ^2/NDF : 5040.5/35

All: 12.535 ± 0.050 χ^2/NDF : 9264.9/66

reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.341 ± 0.008 χ^2/NDF : 434.8/15

Left Out: 0.476 ± 0.003 χ^2/NDF : 410.6/16

Right Out: 0.281 ± 0.008 χ^2/NDF : 777.6/18

Left In: 0.477 ± 0.003 χ^2/NDF : 634.4/14

Left: 0.476 ± 0.002 χ^2/NDF : 1045.0/31

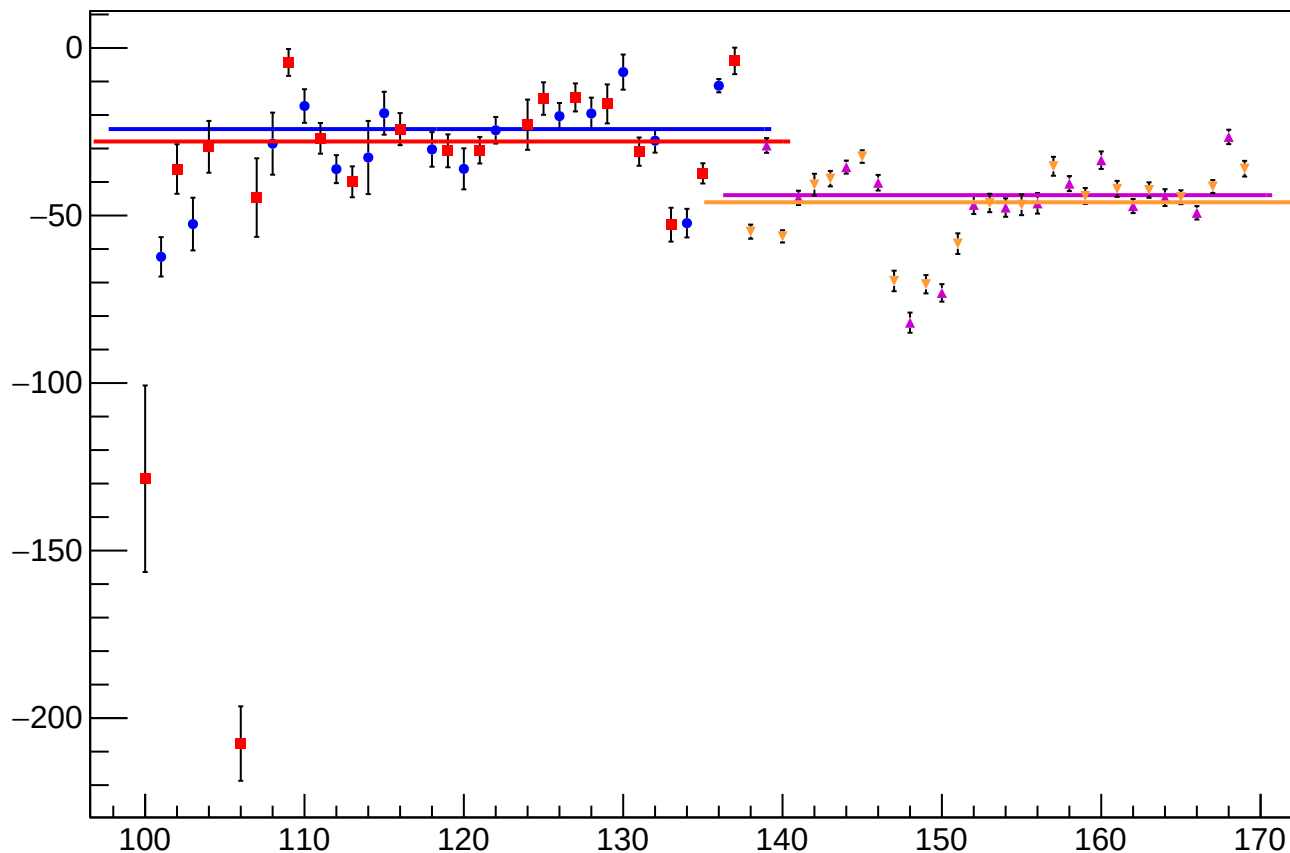
Right: 0.313 ± 0.006 χ^2/NDF : 1239.2/34

In: 0.455 ± 0.003 χ^2/NDF : 1319.6/30

Out: 0.449 ± 0.003 χ^2/NDF : 1642.4/35

All: 0.452 ± 0.002 χ^2/NDF : 2964.1/66

reg_asym_sam2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -24.205 ± 1.086 $\chi^2/\text{NDF}: 170.7/15$

Left Out: -46.043 ± 0.576 $\chi^2/\text{NDF}: 313.2/16$

Right Out: -27.906 ± 1.137 $\chi^2/\text{NDF}: 413.4/18$

Left In: -43.925 ± 0.610 $\chi^2/\text{NDF}: 447.3/14$

Left: -45.045 ± 0.419 $\chi^2/\text{NDF}: 767.0/31$

Right: -25.971 ± 0.785 $\chi^2/\text{NDF}: 589.7/34$

In: -39.202 ± 0.532 $\chi^2/\text{NDF}: 868.7/30$

Out: -42.342 ± 0.514 $\chi^2/\text{NDF}: 929.2/35$

All: -40.826 ± 0.369 $\chi^2/\text{NDF}: 1815.9/66$

reg_asym_sam2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -47.421 ± 1.101 $\chi^2/\text{NDF}: 1873.5/15$

Left Out: -29.742 ± 0.410 $\chi^2/\text{NDF}: 355.7/16$

Right Out: -48.831 ± 1.182 $\chi^2/\text{NDF}: 1774.6/18$

Left In: -31.954 ± 0.438 $\chi^2/\text{NDF}: 1267.4/14$

Left: -30.777 ± 0.299 $\chi^2/\text{NDF}: 1636.8/31$

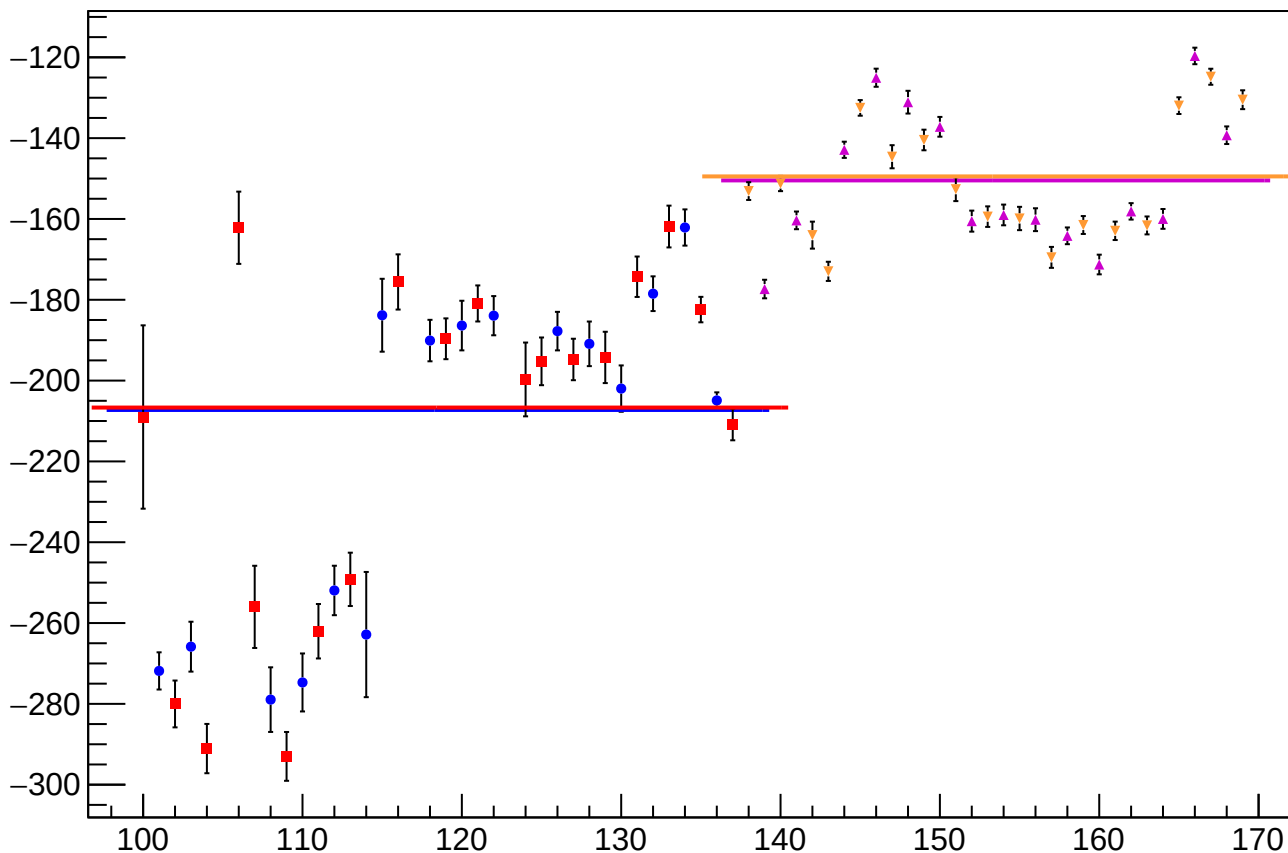
Right: -48.076 ± 0.806 $\chi^2/\text{NDF}: 3648.9/34$

In: -34.064 ± 0.407 $\chi^2/\text{NDF}: 3311.4/30$

Out: -31.792 ± 0.388 $\chi^2/\text{NDF}: 2363.0/35$

All: -32.874 ± 0.281 $\chi^2/\text{NDF}: 5690.7/66$

reg_asym_sam2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -207.266 ± 1.178 χ^2/NDF : 748.5/15

Left Out: -149.470 ± 0.567 χ^2/NDF : 689.3/16

Right Out: -206.673 ± 1.279 χ^2/NDF : 969.4/18

Left In: -150.456 ± 0.595 χ^2/NDF : 814.4/14

Left: -149.939 ± 0.410 χ^2/NDF : 1505.2/31

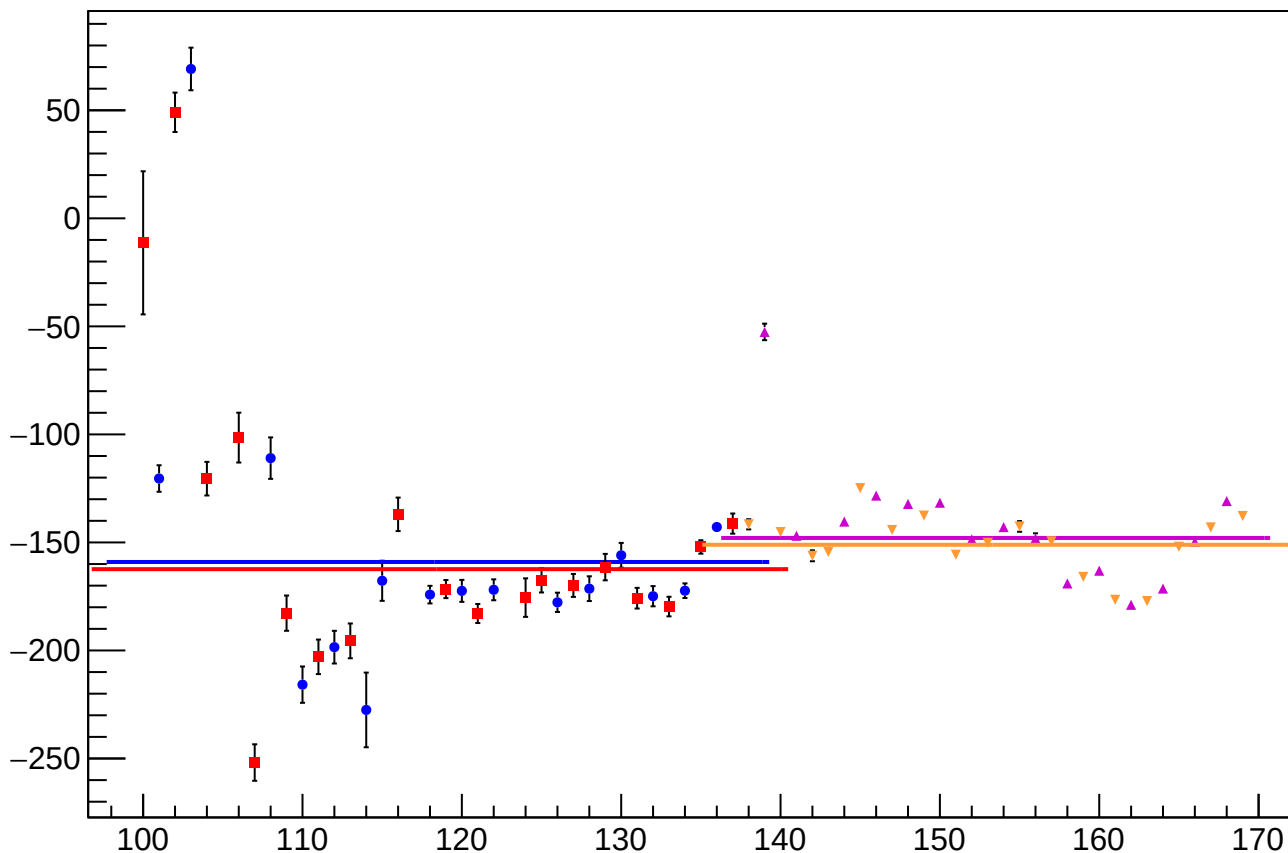
Right: -206.994 ± 0.867 χ^2/NDF : 1718.0/34

In: -161.997 ± 0.531 χ^2/NDF : 3415.1/30

Out: -158.860 ± 0.518 χ^2/NDF : 3329.5/35

All: -160.390 ± 0.371 χ^2/NDF : 6762.5/66

reg_asym_sam2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -159.048 ± 1.225 χ^2/NDF : 815.8/15

Left Out: -151.084 ± 0.470 χ^2/NDF : 933.7/16

Right Out: -162.370 ± 1.324 χ^2/NDF : 872.6/18

Left In: -147.932 ± 0.501 χ^2/NDF : 1682.6/14

Left: -149.610 ± 0.343 χ^2/NDF : 2637.3/31

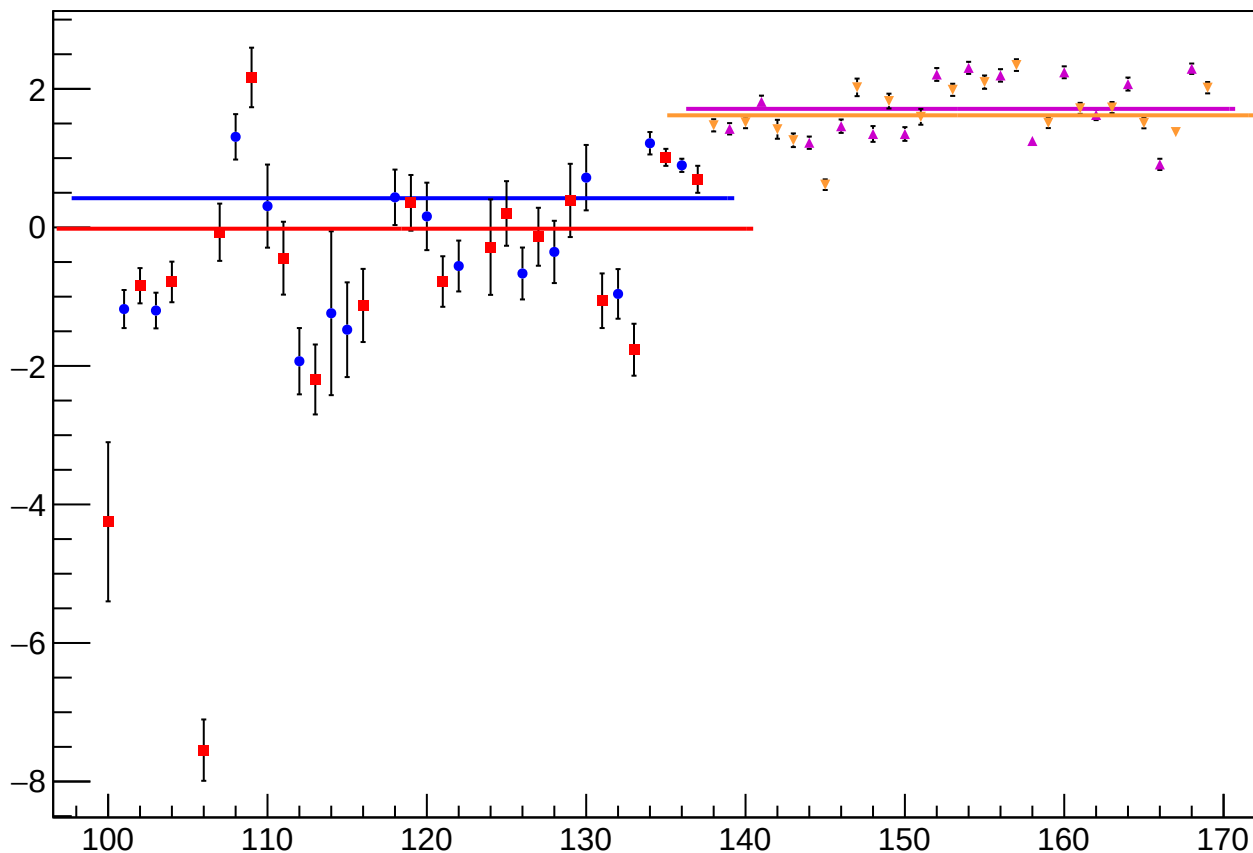
Right: -160.581 ± 0.899 χ^2/NDF : 1691.7/34

In: -149.526 ± 0.464 χ^2/NDF : 2568.9/30

Out: -152.347 ± 0.443 χ^2/NDF : 1870.7/35

All: -151.002 ± 0.320 χ^2/NDF : 4459.0/66

reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.421 ± 0.065 χ^2/NDF : 197.6/15

Left Out: 1.618 ± 0.021 χ^2/NDF : 362.0/16

Right Out: -0.019 ± 0.072 χ^2/NDF : 488.2/18

Left In: 1.711 ± 0.022 χ^2/NDF : 429.4/14

Left: 1.663 ± 0.015 χ^2/NDF : 800.5/31

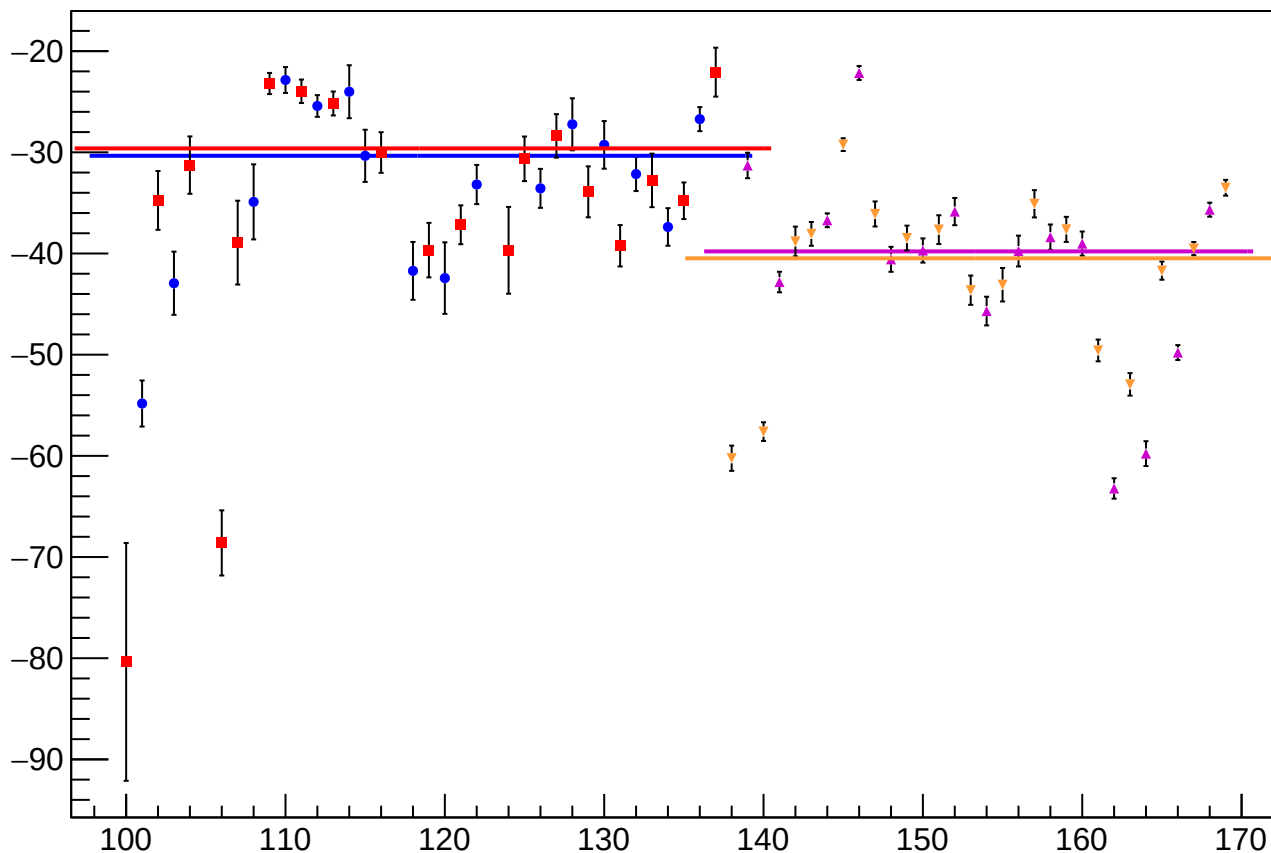
Right: 0.225 ± 0.048 χ^2/NDF : 706.4/34

In: 1.574 ± 0.021 χ^2/NDF : 981.1/30

Out: 1.487 ± 0.020 χ^2/NDF : 1321.5/35

All: 1.529 ± 0.015 χ^2/NDF : 2311.4/66

reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -30.341 ± 0.468 χ^2/NDF : 253.6/15

Left Out: -40.476 ± 0.248 χ^2/NDF : 1247.6/16

Right Out: -29.613 ± 0.450 χ^2/NDF : 329.2/18

Left In: -39.792 ± 0.253 χ^2/NDF : 1779.6/14

Left: -40.141 ± 0.177 χ^2/NDF : 3031.0/31

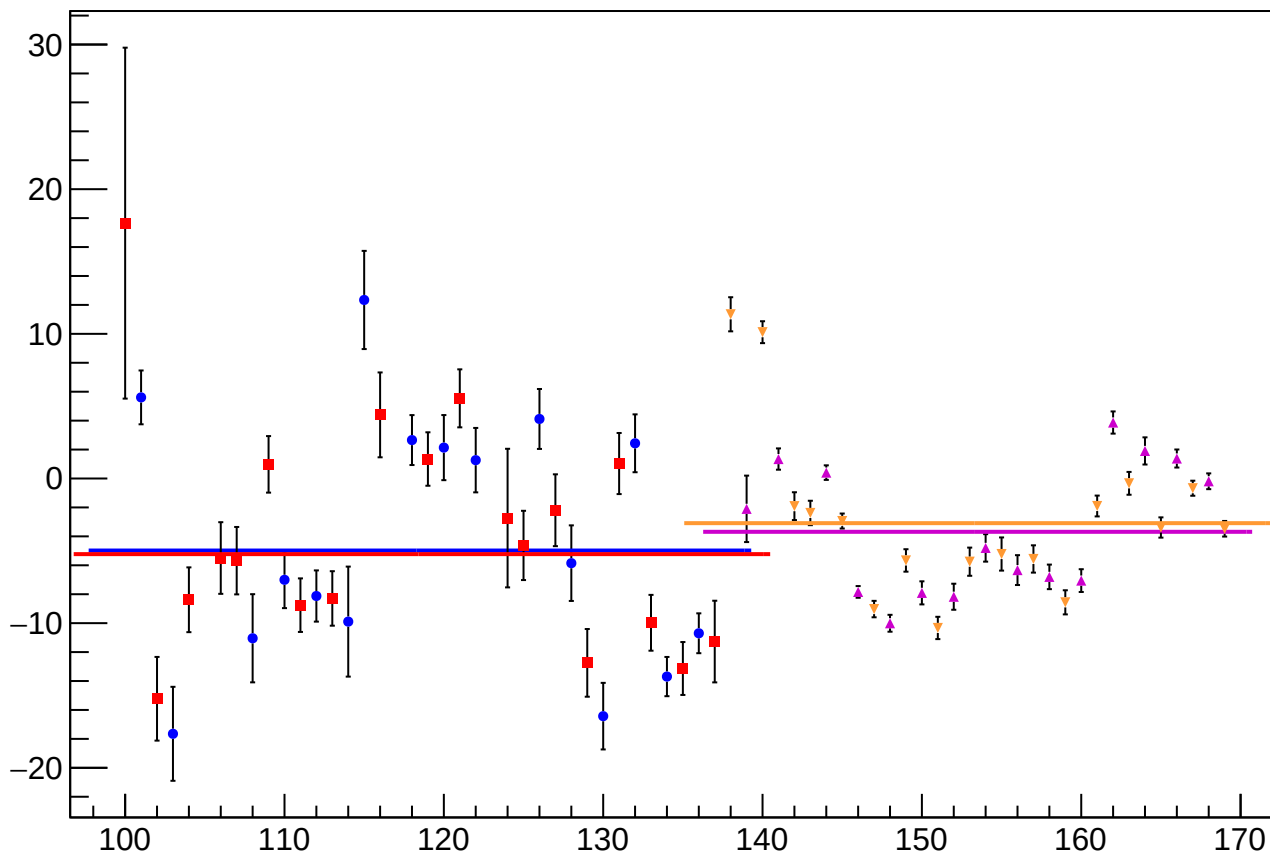
Right: -29.963 ± 0.324 χ^2/NDF : 584.0/34

In: -37.650 ± 0.223 χ^2/NDF : 2348.8/30

Out: -37.950 ± 0.217 χ^2/NDF : 2023.2/35

All: -37.804 ± 0.156 χ^2/NDF : 4372.9/66

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.980 ± 0.510 $\chi^2/\text{NDF}: 237.3/15$

Left Out: -3.087 ± 0.176 $\chi^2/\text{NDF}: 763.3/16$

Right Out: -5.228 ± 0.524 $\chi^2/\text{NDF}: 136.5/18$

Left In: -3.685 ± 0.178 $\chi^2/\text{NDF}: 668.4/14$

Left: -3.384 ± 0.125 $\chi^2/\text{NDF}: 1437.4/31$

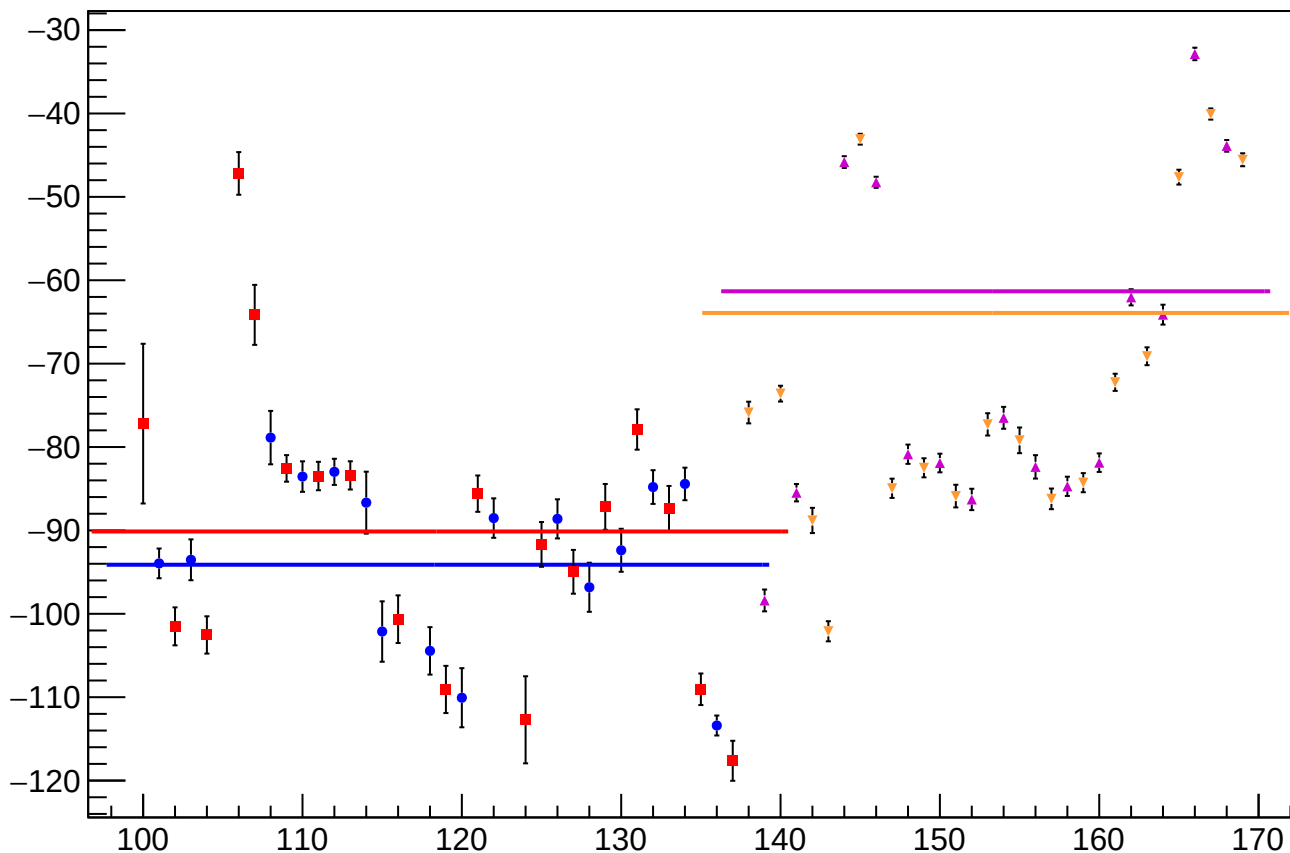
Right: -5.100 ± 0.365 $\chi^2/\text{NDF}: 373.9/34$

In: -3.826 ± 0.168 $\chi^2/\text{NDF}: 911.5/30$

Out: -3.305 ± 0.167 $\chi^2/\text{NDF}: 914.8/35$

All: -3.564 ± 0.118 $\chi^2/\text{NDF}: 1831.1/66$

reg_asym_sam3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -94.115 ± 0.537 χ^2/NDF : 466.8/15

Left Out: -63.918 ± 0.245 χ^2/NDF : 6426.3/16

Right Out: -90.127 ± 0.543 χ^2/NDF : 789.3/18

Left In: -61.323 ± 0.249 χ^2/NDF : 6384.1/14

Left: -62.638 ± 0.175 χ^2/NDF : 12865.6/31

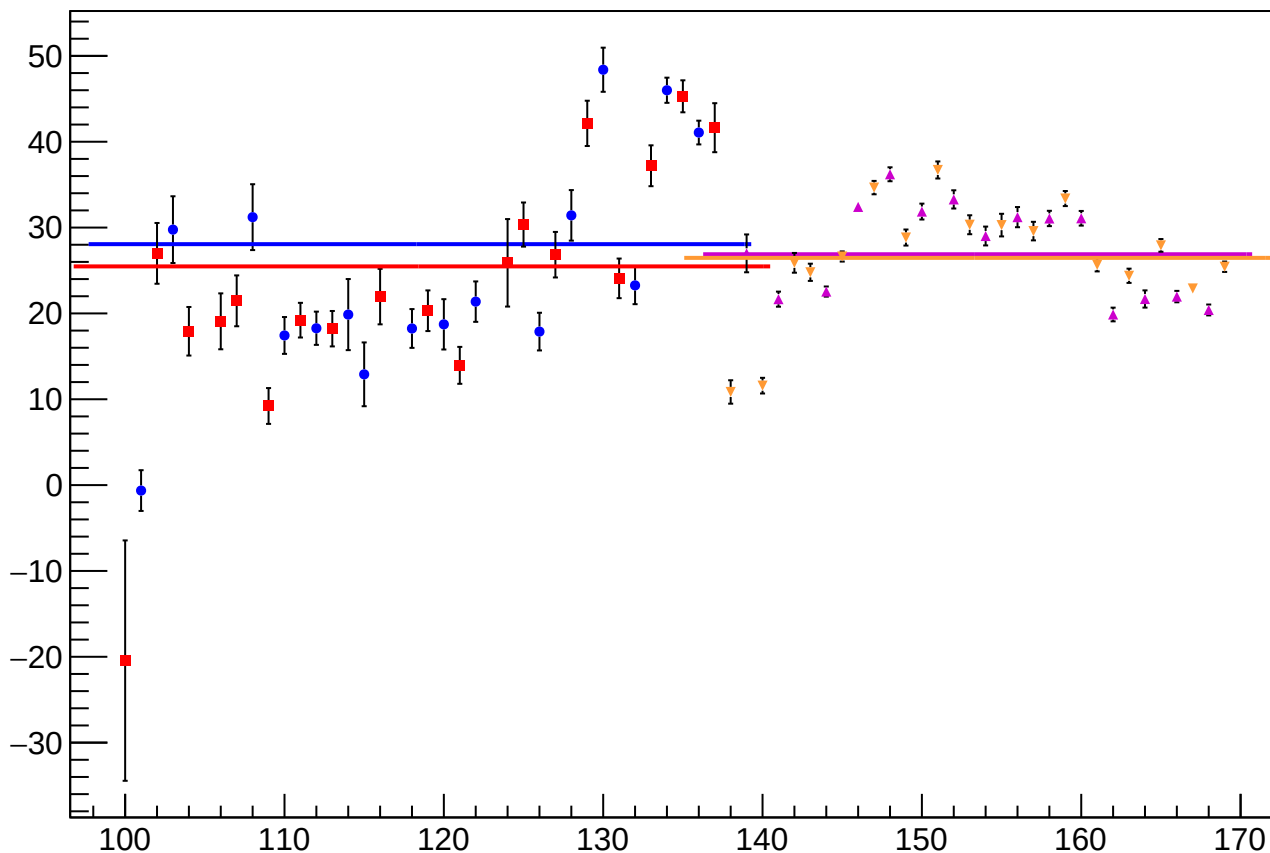
Right: -92.143 ± 0.382 χ^2/NDF : 1283.5/34

In: -67.118 ± 0.226 χ^2/NDF : 9920.6/30

Out: -68.366 ± 0.224 χ^2/NDF : 9150.4/35

All: -67.748 ± 0.159 χ^2/NDF : 19086.4/66

reg_asym_sam3_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.068 $\pm$ 0.569 χ^2 /NDF: 583.1/15

Left Out: 26.470 $\pm$ 0.202 χ^2 /NDF: 767.7/16

Right Out: 25.477 $\pm$ 0.590 χ^2 /NDF: 354.6/18

Left In: 26.893 $\pm$ 0.207 χ^2 /NDF: 730.3/14

Left: 26.676 $\pm$ 0.145 χ^2 /NDF: 1500.1/31

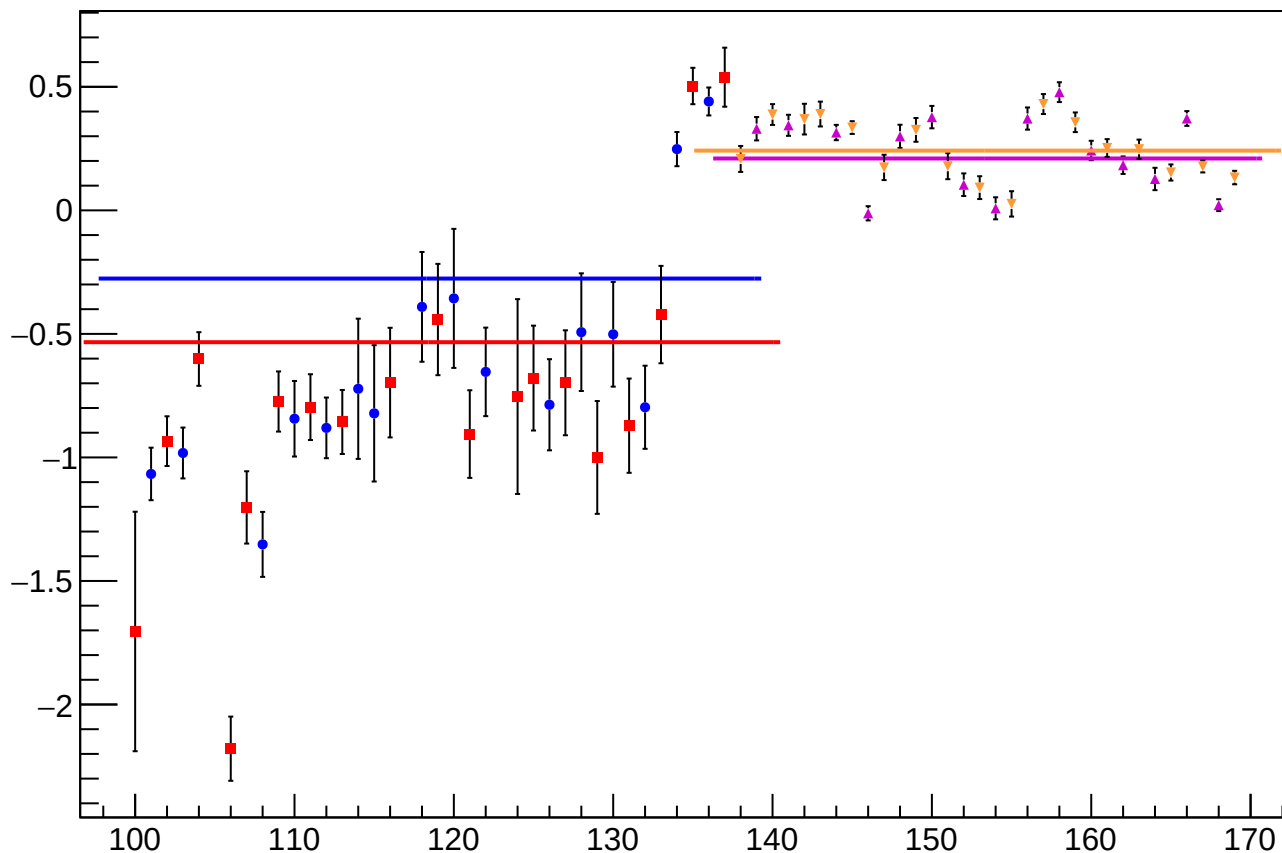
Right: 26.821 $\pm$ 0.410 χ^2 /NDF: 947.7/34

In: 27.030 $\pm$ 0.195 χ^2 /NDF: 1317.2/30

Out: 26.366 $\pm$ 0.191 χ^2 /NDF: 1124.9/35

All: 26.692 $\pm$ 0.136 χ^2 /NDF: 2447.9/66

reg_asym_sam3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.276 ± 0.031 χ^2/NDF : 455.6/15

Left Out: 0.242 ± 0.009 χ^2/NDF : 133.1/16

Right Out: -0.534 ± 0.033 χ^2/NDF : 510.3/18

Left In: 0.210 ± 0.010 χ^2/NDF : 283.5/14

Left: 0.226 ± 0.007 χ^2/NDF : 422.4/31

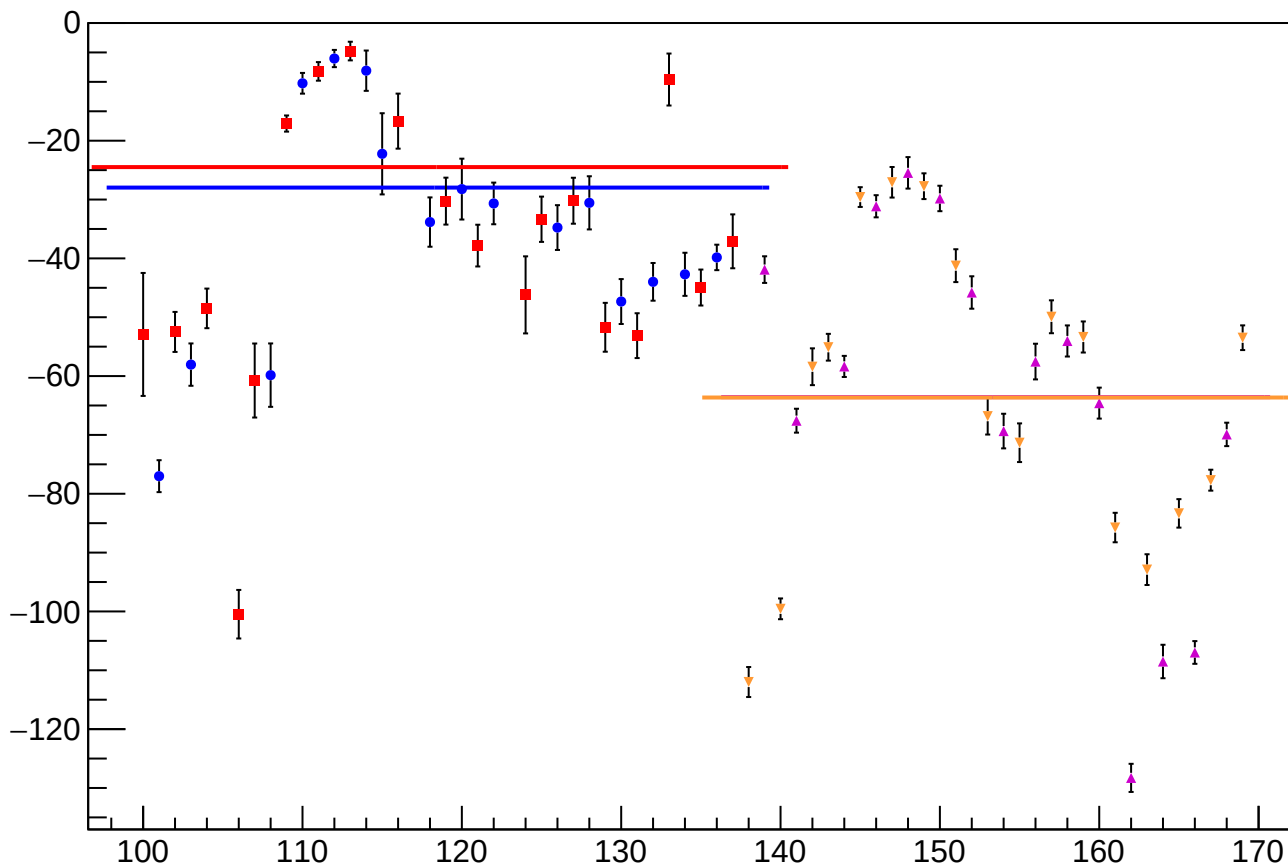
Right: -0.396 ± 0.022 χ^2/NDF : 998.8/34

In: 0.167 ± 0.009 χ^2/NDF : 968.6/30

Out: 0.185 ± 0.009 χ^2/NDF : 1159.8/35

All: 0.176 ± 0.006 χ^2/NDF : 2130.4/66

reg_asym_sam4_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -27.967 ± 0.728 χ^2/NDF : 894.7/15

Left Out: -63.644 ± 0.568 χ^2/NDF : 2134.7/16

Right Out: -24.485 ± 0.663 χ^2/NDF : 989.7/18

Left In: -63.581 ± 0.593 χ^2/NDF : 2408.6/14

Left: -63.614 ± 0.410 χ^2/NDF : 4543.3/31

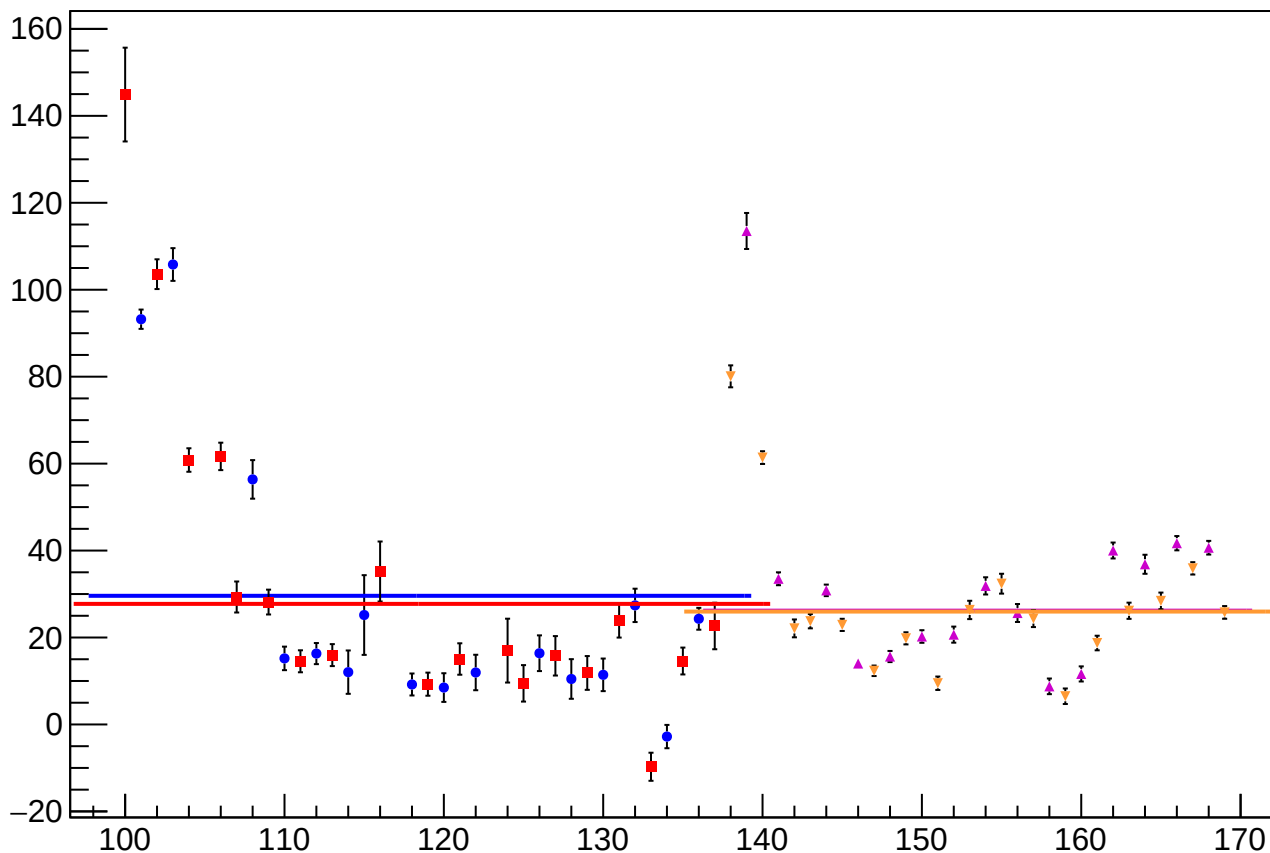
Right: -26.064 ± 0.490 χ^2/NDF : 1896.8/34

In: -49.376 ± 0.460 χ^2/NDF : 4743.5/30

Out: -47.055 ± 0.431 χ^2/NDF : 5136.0/35

All: -48.143 ± 0.315 χ^2/NDF : 9893.0/66

reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 29.594 ± 0.807 χ^2/NDF : 1665.7/15

Left Out: 25.969 ± 0.401 χ^2/NDF : 1509.5/16

Right Out: 27.736 ± 0.797 χ^2/NDF : 1185.1/18

Left In: 26.180 ± 0.422 χ^2/NDF : 1113.8/14

Left: 26.069 ± 0.291 χ^2/NDF : 2623.5/31

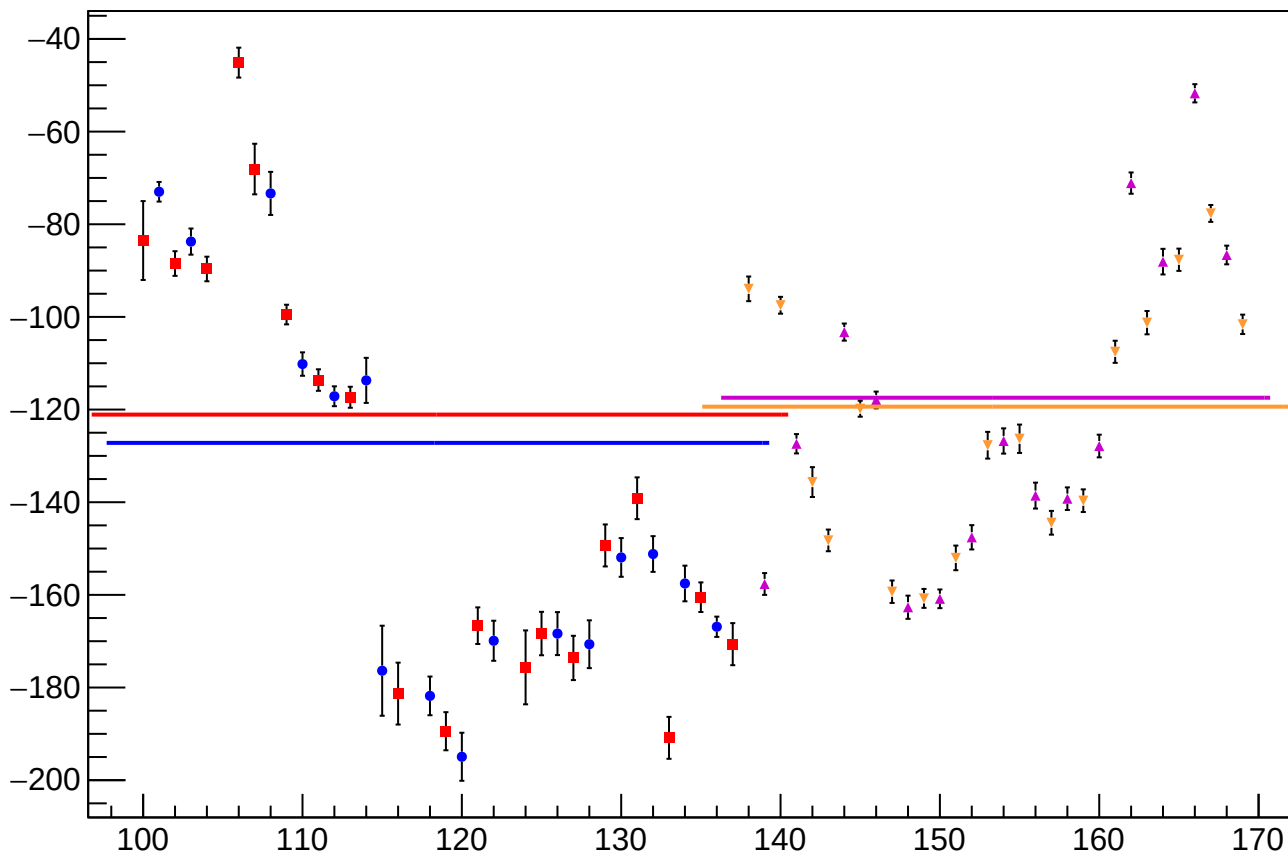
Right: 28.653 ± 0.567 χ^2/NDF : 2853.5/34

In: 26.911 ± 0.374 χ^2/NDF : 2793.6/30

Out: 26.326 ± 0.358 χ^2/NDF : 2698.5/35

All: 26.606 ± 0.259 χ^2/NDF : 5493.4/66

reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -127.190 ± 0.829 $\chi^2/\text{NDF}: 2178.2/15$

Left Out: -119.371 ± 0.560 $\chi^2/\text{NDF}: 2270.4/16$

Right Out: -121.086 ± 0.798 $\chi^2/\text{NDF}: 2397.3/18$

Left In: -117.445 ± 0.579 $\chi^2/\text{NDF}: 3325.4/14$

Left: -118.441 ± 0.403 $\chi^2/\text{NDF}: 5601.5/31$

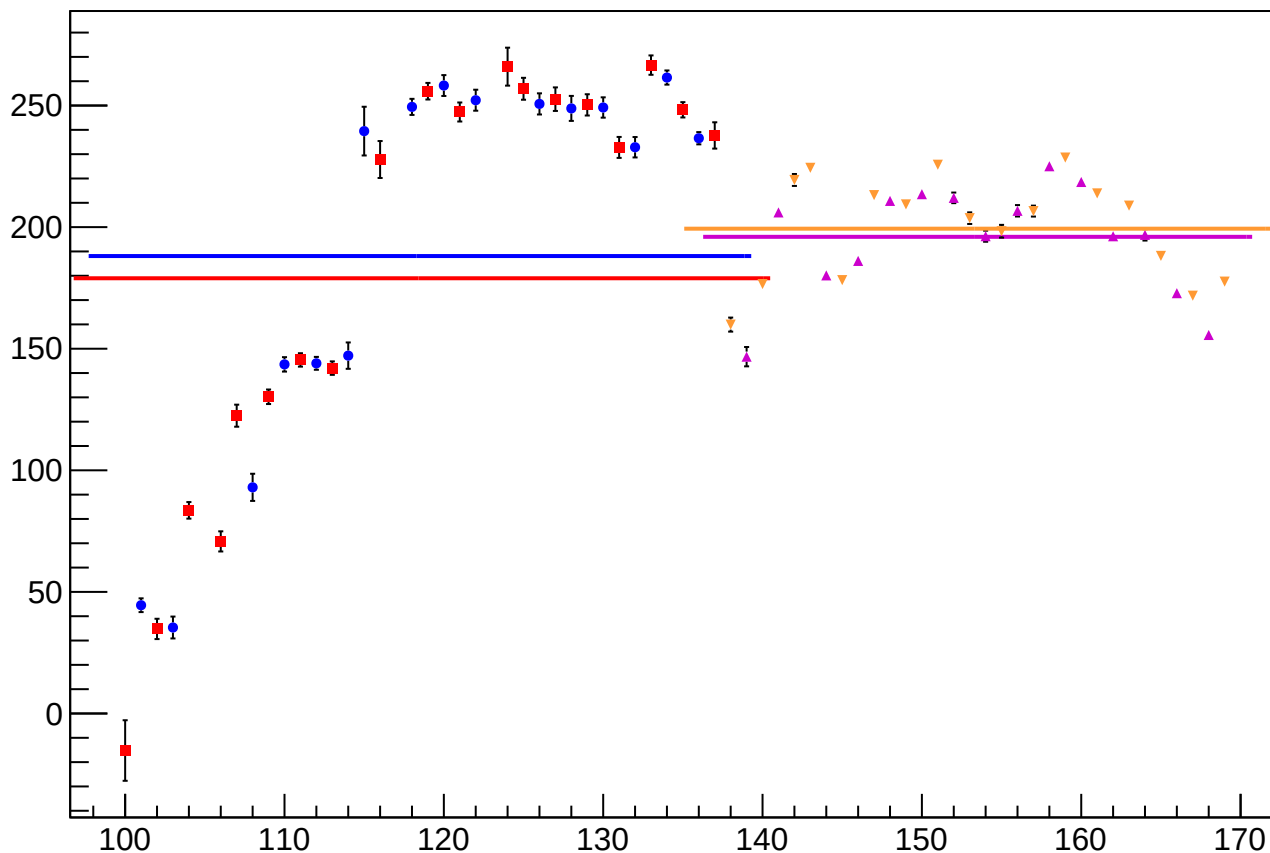
Right: -124.019 ± 0.575 $\chi^2/\text{NDF}: 4603.6/34$

In: -120.642 ± 0.475 $\chi^2/\text{NDF}: 5596.3/30$

Out: -119.937 ± 0.458 $\chi^2/\text{NDF}: 4670.8/35$

All: -120.276 ± 0.330 $\chi^2/\text{NDF}: 10268.3/66$

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 188.107 $\pm$ 0.918 χ^2 /NDF: 7118.6/15

Left Out: 199.360 $\pm$ 0.463 χ^2 /NDF:1913.9/16

Right Out: 178.971 $\pm$ 0.908 χ^2 /NDF: 6668.8/18

Left In: 196.013 $\pm$ 0.488 χ^2 /NDF:1633.6/14

Left: 197.773 $\pm$ 0.336 χ^2 /NDF: 3572.3/31

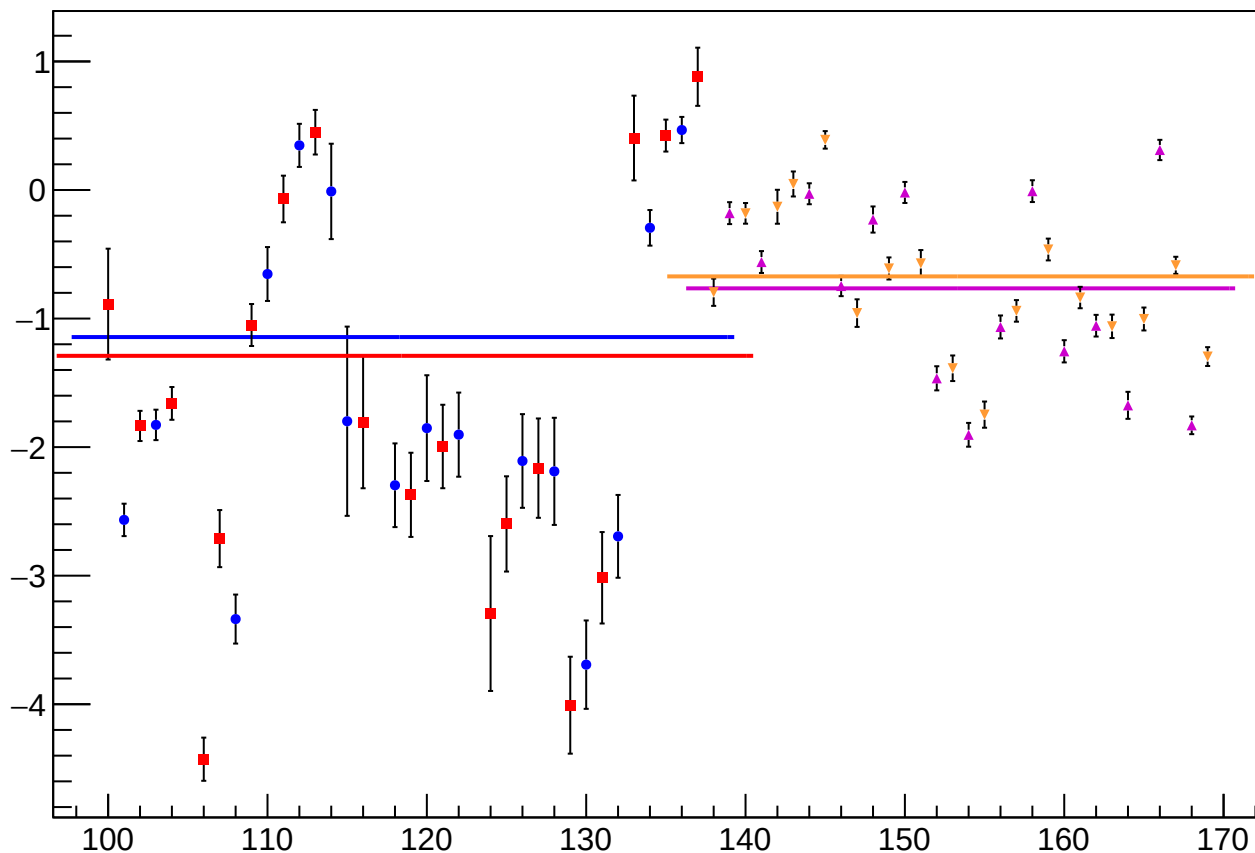
Right: 183.489 $\pm$ 0.646 χ^2 /NDF: 13837.5/34

In: 194.271 $\pm$ 0.431 χ^2 /NDF:8810.1/30

Out: 195.147 $\pm$ 0.413 χ^2 /NDF:8982.7/35

All: 194.728 $\pm$ 0.298 χ^2 /NDF: 17794.9/66

reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -1.144 ± 0.048 $\chi^2/\text{NDF}: 787.4/15$

Left Out: -0.672 ± 0.021 $\chi^2/\text{NDF}: 650.6/16$

Right Out: -1.290 ± 0.047 $\chi^2/\text{NDF}: 998.3/18$

Left In: -0.765 ± 0.022 $\chi^2/\text{NDF}: 1088.3/14$

Left: -0.717 ± 0.015 $\chi^2/\text{NDF}: 1748.2/31$

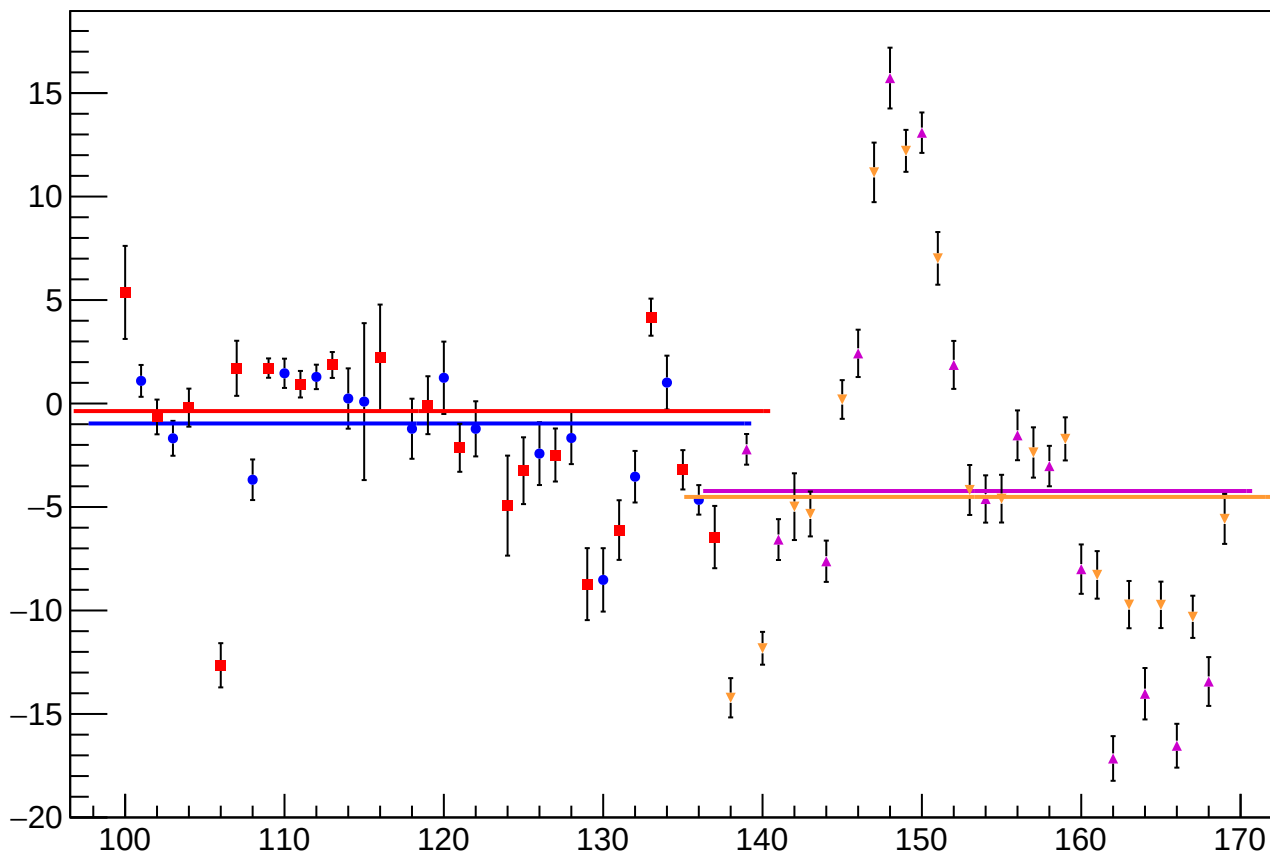
Right: -1.218 ± 0.034 $\chi^2/\text{NDF}: 1790.3/34$

In: -0.831 ± 0.020 $\chi^2/\text{NDF}: 1927.1/30$

Out: -0.775 ± 0.019 $\chi^2/\text{NDF}: 1790.1/35$

All: -0.802 ± 0.014 $\chi^2/\text{NDF}: 3721.3/66$

reg_asym_sam5_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.964 ± 0.253 $\chi^2/\text{NDF}: 103.2/15$

Left Out: -4.513 ± 0.266 $\chi^2/\text{NDF}: 785.3/16$

Right Out: -0.365 ± 0.224 $\chi^2/\text{NDF}: 280.6/18$

Left In: -4.227 ± 0.275 $\chi^2/\text{NDF}: 1003.0/14$

Left: -4.375 ± 0.191 $\chi^2/\text{NDF}: 1788.9/31$

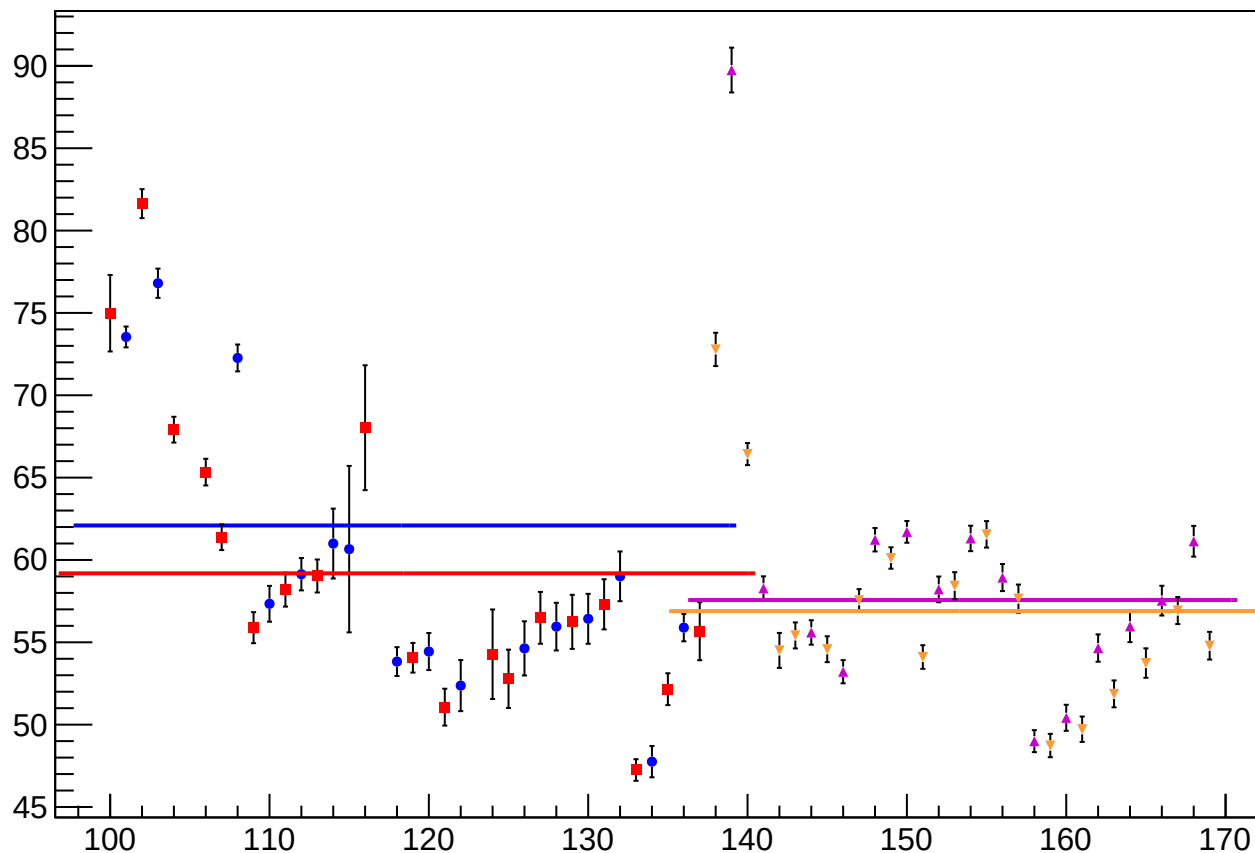
Right: -0.628 ± 0.168 $\chi^2/\text{NDF}: 386.9/34$

In: -2.460 ± 0.186 $\chi^2/\text{NDF}: 1182.3/30$

Out: -2.085 ± 0.171 $\chi^2/\text{NDF}: 1208.5/35$

All: -2.257 ± 0.126 $\chi^2/\text{NDF}: 2393.0/66$

reg_asym_sam5_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 62.094 $\pm$ 0.265 χ^2 /NDF: 1301.3/15

Left Out: 56.896 $\pm$ 0.191 χ^2 /NDF: 820.6/16

Right Out: 59.188 $\pm$ 0.244 χ^2 /NDF: 1402.1/18

Left In: 57.568 $\pm$ 0.204 χ^2 /NDF: 975.1/14

Left: 57.209 $\pm$ 0.139 χ^2 /NDF: 1801.5/31

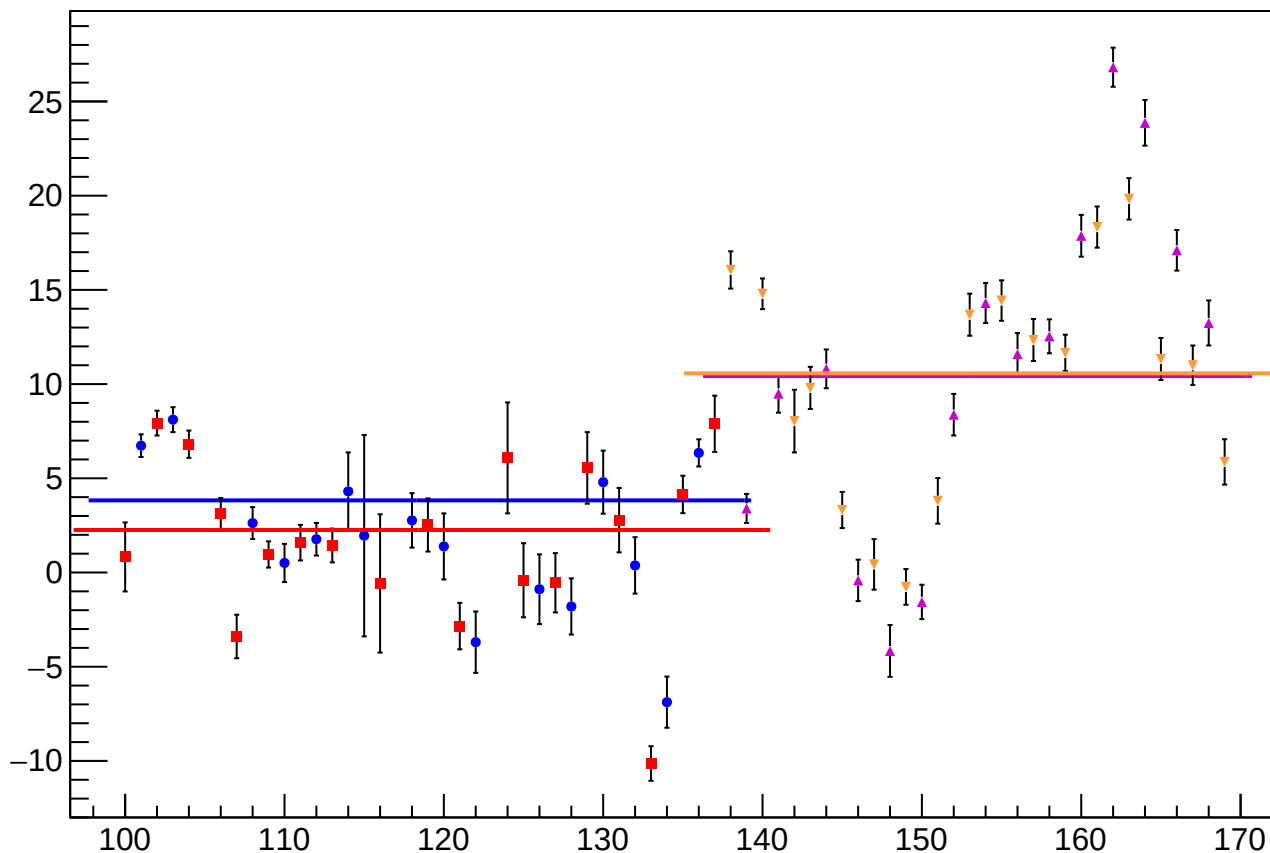
Right: 60.518 $\pm$ 0.180 χ^2 /NDF: 2768.4/34

In: 59.247 $\pm$ 0.162 χ^2 /NDF: 2459.3/30

Out: 57.765 $\pm$ 0.150 χ^2 /NDF: 2277.6/35

All: 58.451 $\pm$ 0.110 χ^2 /NDF: 4782.0/66

reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 3.828 ± 0.265 $\chi^2/\text{NDF}: 208.6/15$

Left Out: 10.570 ± 0.260 $\chi^2/\text{NDF}: 510.7/16$

Right Out: 2.257 ± 0.246 $\chi^2/\text{NDF}: 371.9/18$

Left In: 10.427 ± 0.268 $\chi^2/\text{NDF}: 952.0/14$

Left: 10.501 ± 0.187 $\chi^2/\text{NDF}: 1462.9/31$

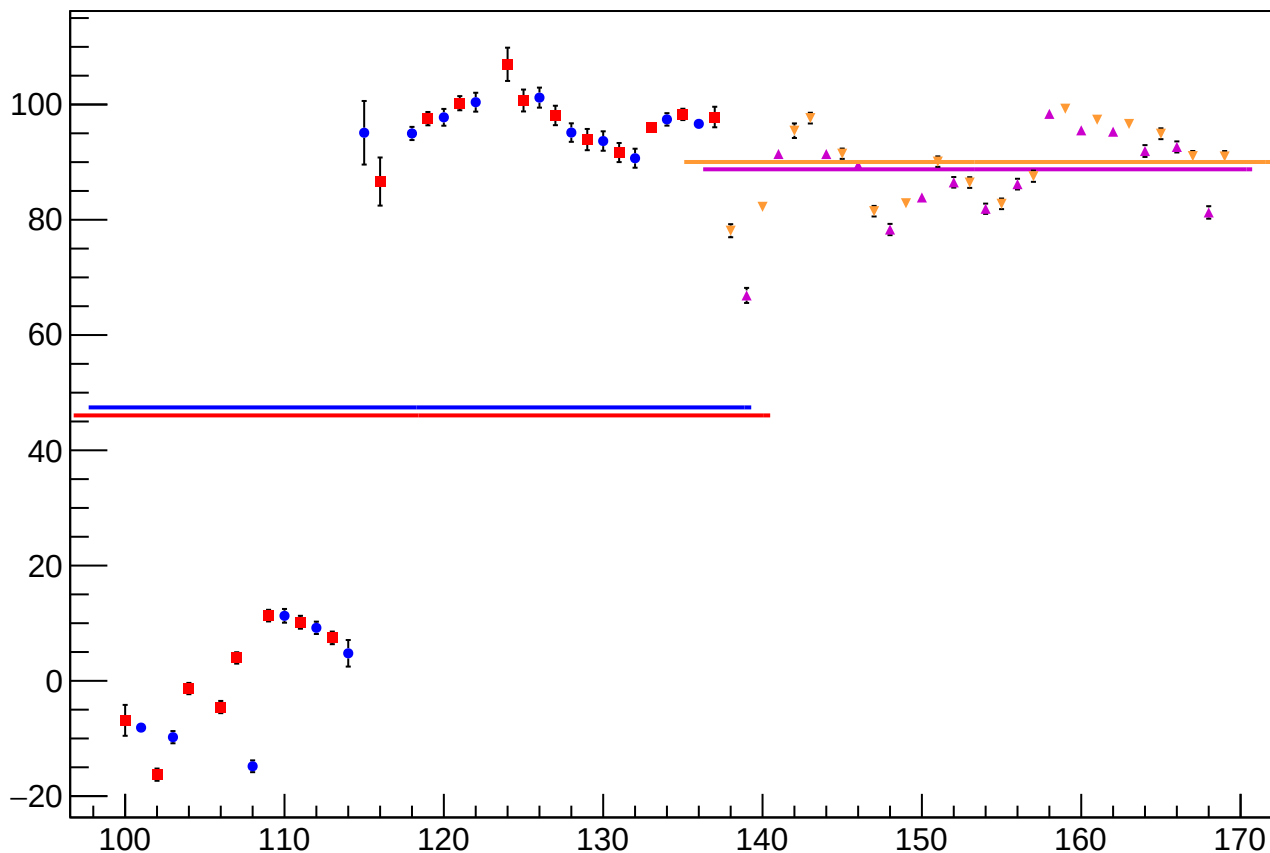
Right: 2.985 ± 0.181 $\chi^2/\text{NDF}: 599.4/34$

In: 7.092 ± 0.189 $\chi^2/\text{NDF}: 1466.6/30$

Out: 6.185 ± 0.179 $\chi^2/\text{NDF}: 1420.3/35$

All: 6.615 ± 0.130 $\chi^2/\text{NDF}: 2899.1/66$

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.443 ± 0.308 $\chi^2/\text{NDF}: 26886.9/15$

Left Out: 90.024 ± 0.218 $\chi^2/\text{NDF}: 870.1/16$

Right Out: 46.053 ± 0.284 $\chi^2/\text{NDF}: 28897.8/18$

Left In: 88.754 ± 0.232 $\chi^2/\text{NDF}: 909.9/14$

Left: 89.427 ± 0.159 $\chi^2/\text{NDF}: 1795.9/31$

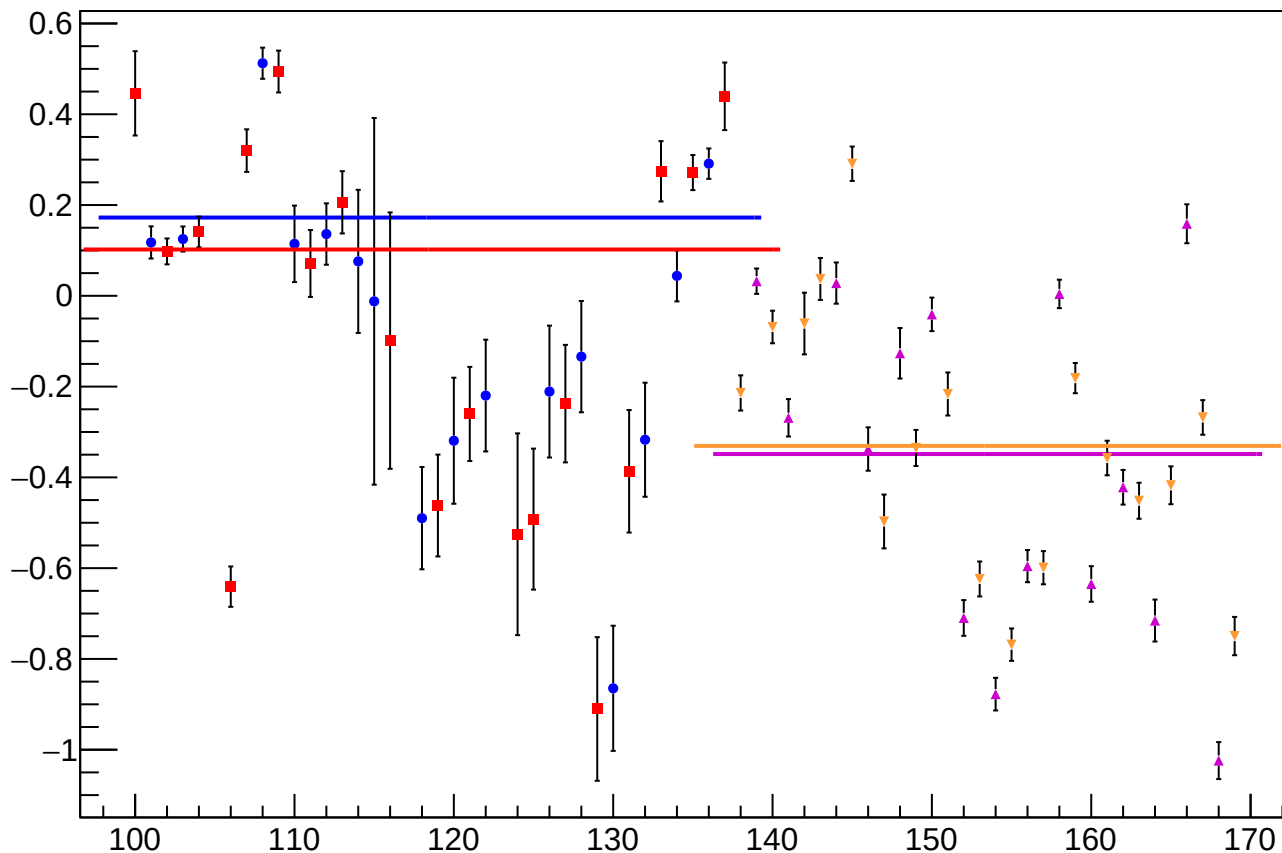
Right: 46.693 ± 0.209 $\chi^2/\text{NDF}: 55795.7/34$

In: 73.814 ± 0.185 $\chi^2/\text{NDF}: 39276.4/30$

Out: 73.720 ± 0.173 $\chi^2/\text{NDF}: 44805.0/35$

All: 73.764 ± 0.127 $\chi^2/\text{NDF}: 84081.5/66$

reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.172 ± 0.014 χ^2/NDF : 265.0/15

Left Out: -0.331 ± 0.010 χ^2/NDF : 822.6/16

Right Out: 0.102 ± 0.013 χ^2/NDF : 558.7/18

Left In: -0.349 ± 0.010 χ^2/NDF : 1354.1/14

Left: -0.339 ± 0.007 χ^2/NDF : 2178.3/31

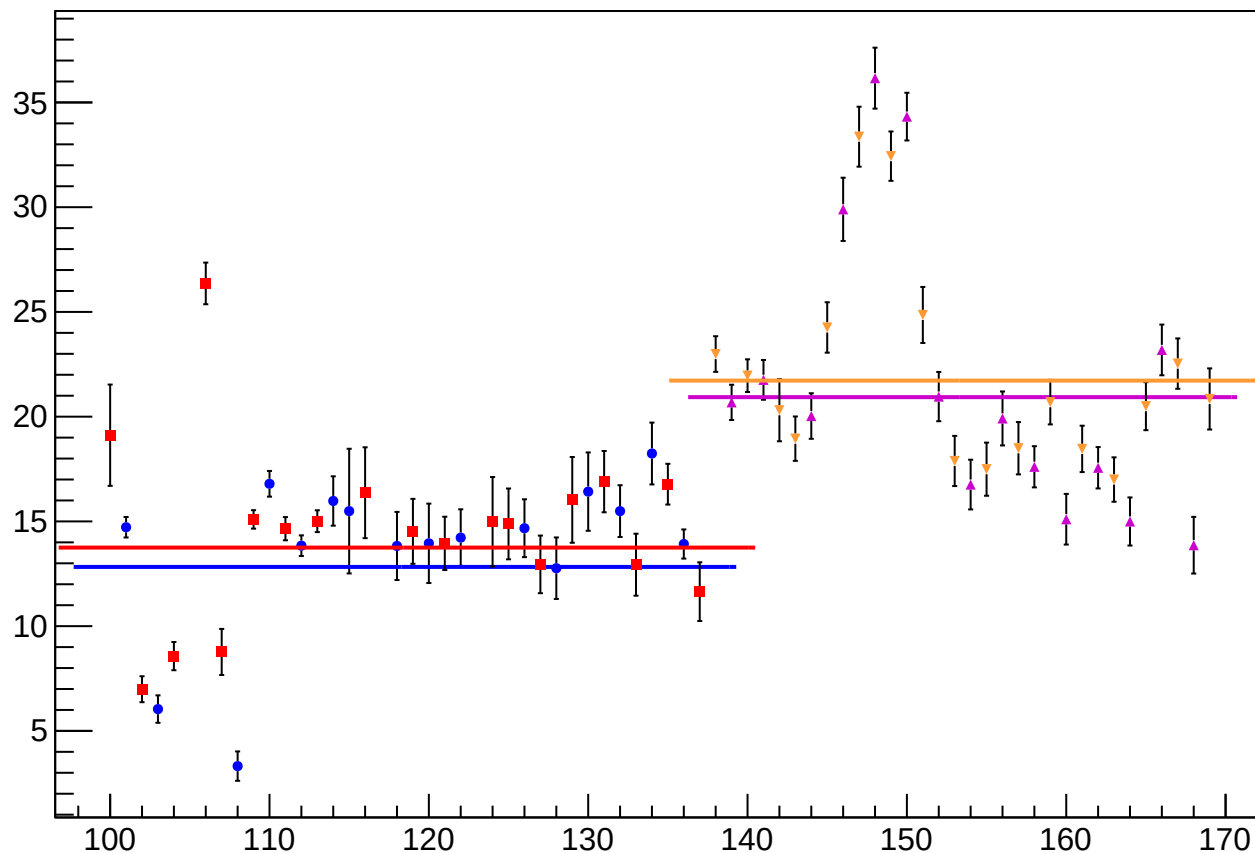
Right: 0.135 ± 0.010 χ^2/NDF : 836.7/34

In: -0.175 ± 0.008 χ^2/NDF : 2524.1/30

Out: -0.181 ± 0.008 χ^2/NDF : 2058.0/35

All: -0.178 ± 0.006 χ^2/NDF : 4582.3/66

reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 12.827 ± 0.214 χ^2/NDF : 388.0/15

Left Out: 21.722 ± 0.274 χ^2/NDF : 228.3/16

Right Out: 13.750 ± 0.204 χ^2/NDF : 404.0/18

Left In: 20.932 ± 0.291 χ^2/NDF : 401.5/14

Left: 21.350 ± 0.200 χ^2/NDF : 633.7/31

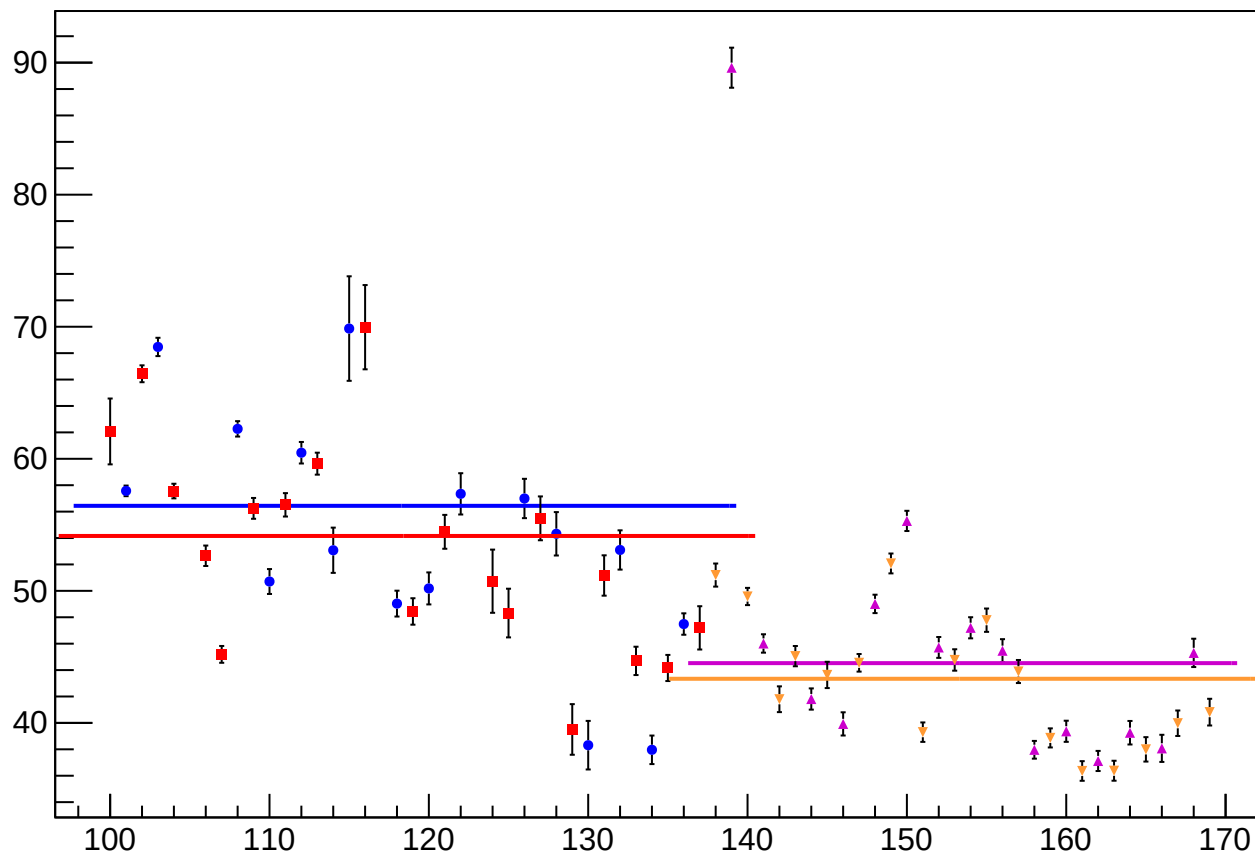
Right: 13.311 ± 0.148 χ^2/NDF : 801.7/34

In: 15.674 ± 0.172 χ^2/NDF : 1293.0/30

Out: 16.593 ± 0.164 χ^2/NDF : 1176.2/35

All: 16.157 ± 0.119 χ^2/NDF : 2484.2/66

reg_asym_sam6_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 56.438 ± 0.222 χ^2/NDF : 1088.0/15

Left Out: 43.342 ± 0.196 χ^2/NDF : 639.6/16

Right Out: 54.156 ± 0.225 χ^2/NDF : 1006.6/18

Left In: 44.526 ± 0.212 χ^2/NDF : 1487.4/14

Left: 43.886 ± 0.144 χ^2/NDF : 2143.8/31

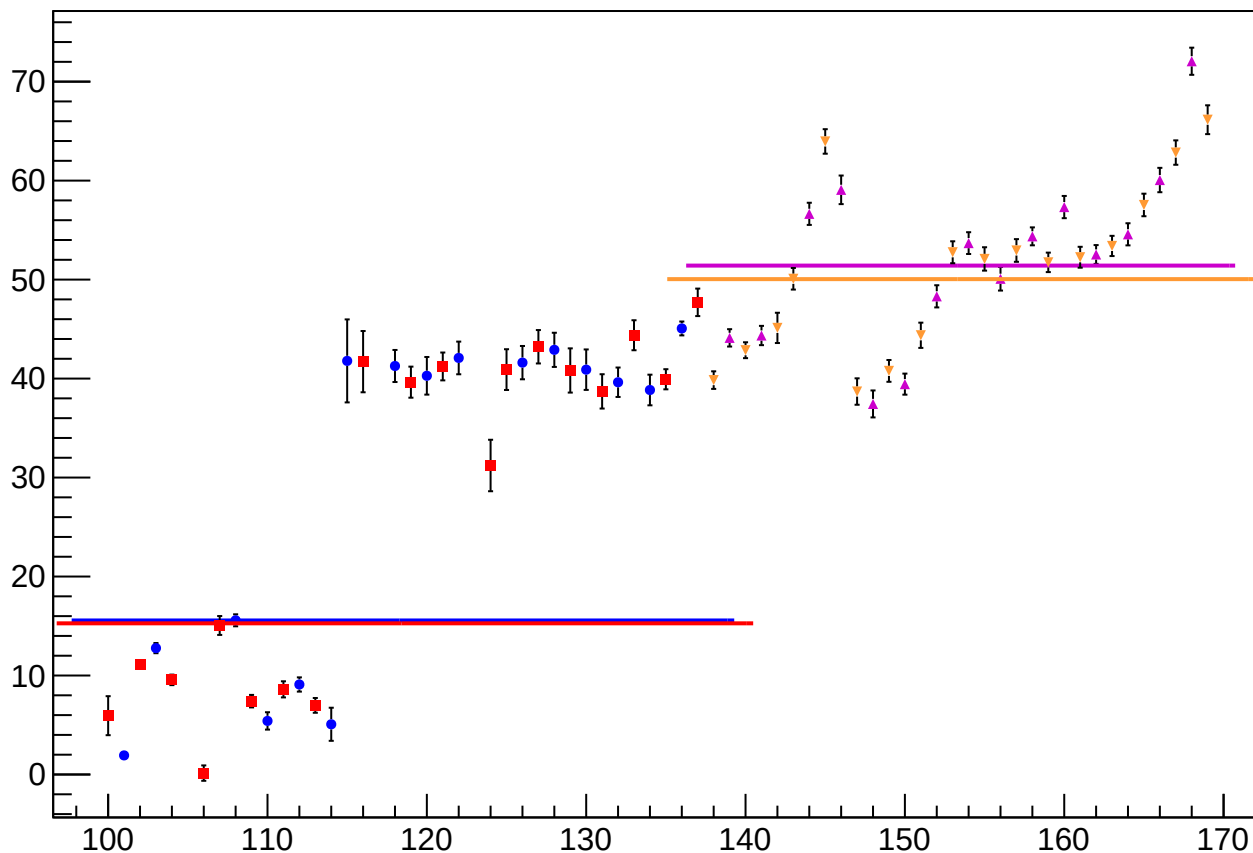
Right: 55.311 ± 0.158 χ^2/NDF : 2146.9/34

In: 50.225 ± 0.153 χ^2/NDF : 4079.5/30

Out: 48.013 ± 0.148 χ^2/NDF : 2964.1/35

All: 49.076 ± 0.106 χ^2/NDF : 7151.6/66

reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 15.561 $\pm$ 0.214 χ^2 /NDF: 5176.0/15

Left Out: 50.047 $\pm$ 0.269 χ^2 /NDF: 818.5/16

Right Out: 15.272 $\pm$ 0.219 χ^2 /NDF: 3873.0/18

Left In: 51.415 $\pm$ 0.283 χ^2 /NDF: 740.8/14

Left: 50.696 $\pm$ 0.195 χ^2 /NDF: 1571.5/31

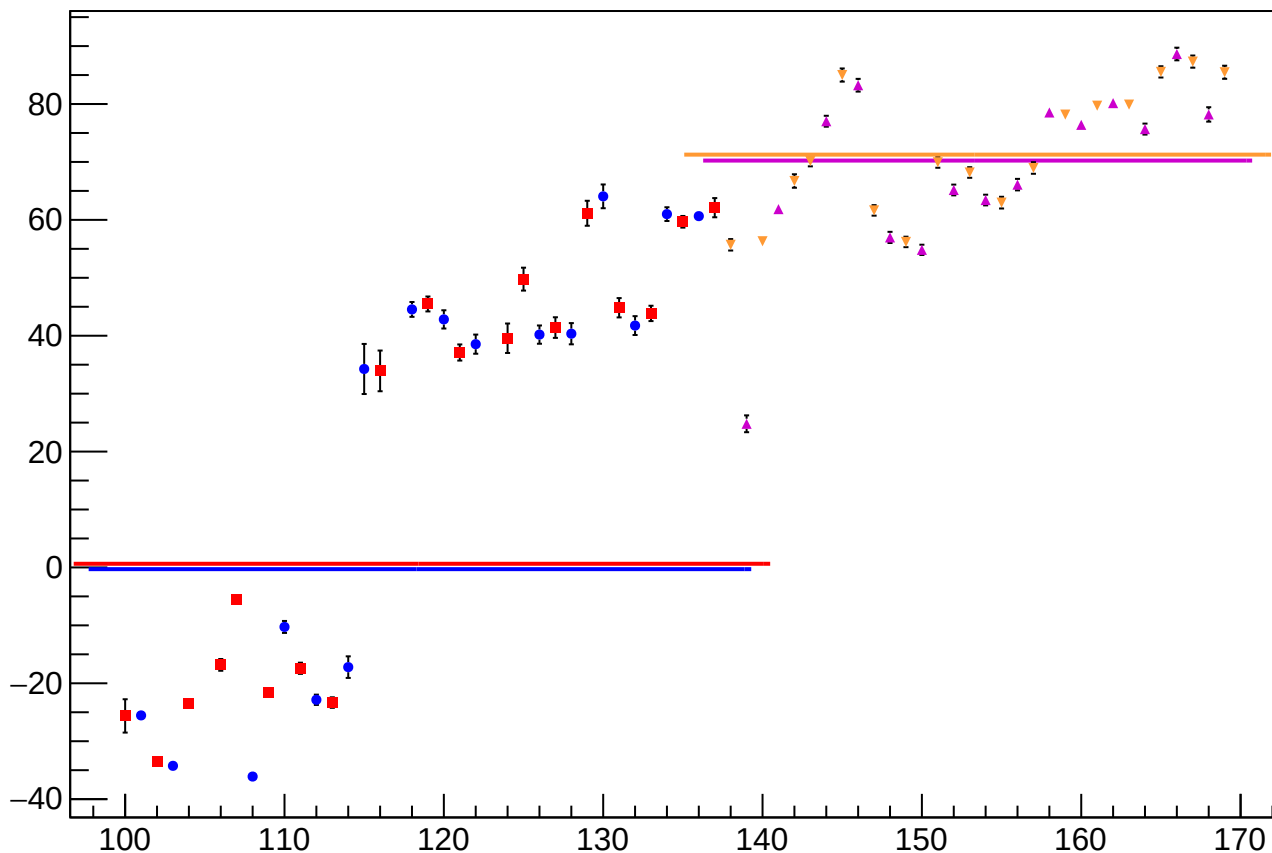
Right: 15.420 $\pm$ 0.153 χ^2 /NDF: 9050.0/34

In: 28.610 $\pm$ 0.171 χ^2 /NDF: 16133.6/30

Out: 29.151 $\pm$ 0.170 χ^2 /NDF: 14742.2/35

All: 28.881 $\pm$ 0.120 χ^2 /NDF: 30880.9/66

reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.296 ± 0.261 χ^2/NDF : 21030.9/15

Left Out: 71.263 ± 0.225 χ^2/NDF : 2172.6/16

Right Out: 0.633 ± 0.264 χ^2/NDF : 16028.1/18

Left In: 70.236 ± 0.242 χ^2/NDF : 2569.5/14

Left: 70.786 ± 0.165 χ^2/NDF : 4751.7/31

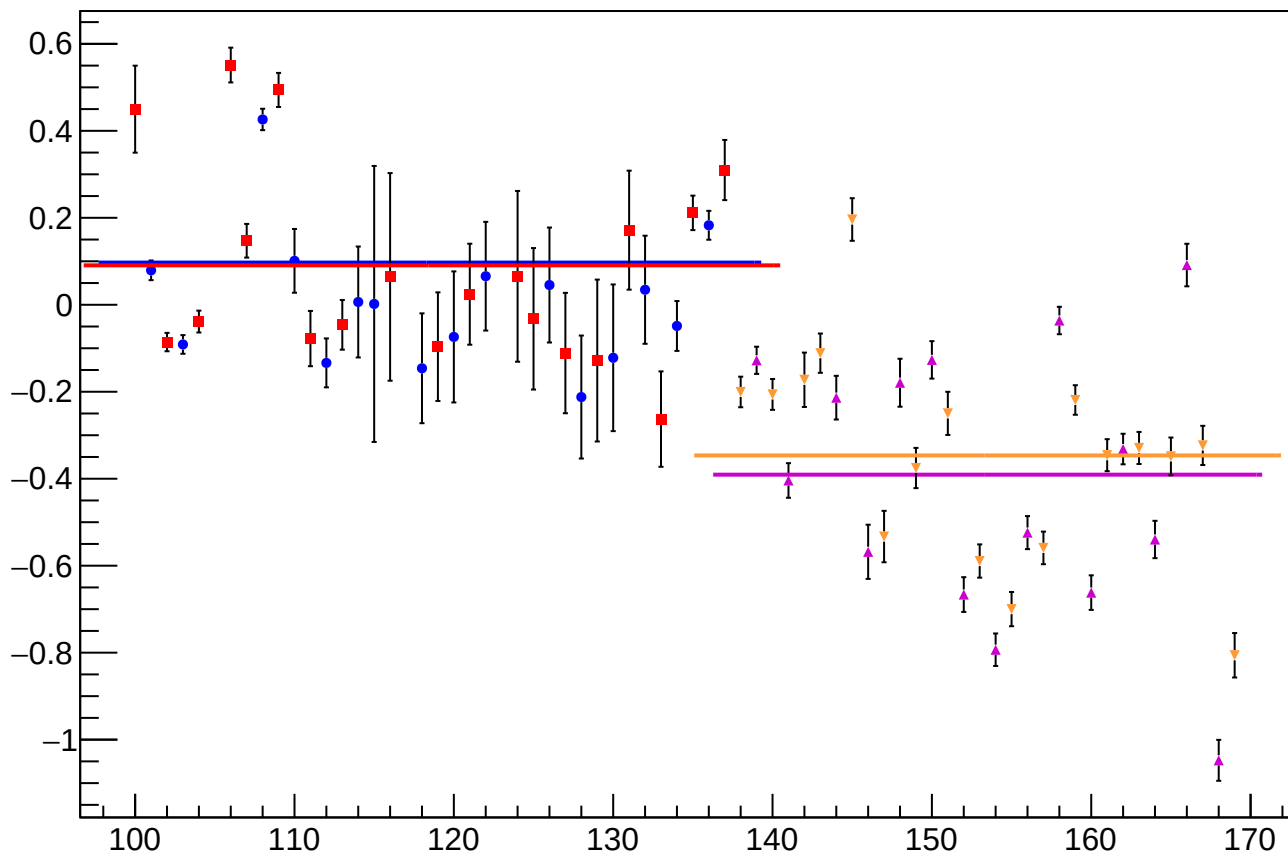
Right: 0.165 ± 0.186 χ^2/NDF : 37065.2/34

In: 37.738 ± 0.177 χ^2/NDF : 62860.6/30

Out: 41.513 ± 0.171 χ^2/NDF : 59750.9/35

All: 39.694 ± 0.123 χ^2/NDF : 122846.0/66

reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.097 ± 0.011 $\chi^2/\text{NDF}: 299.1/15$

Left Out: -0.346 ± 0.010 $\chi^2/\text{NDF}: 452.9/16$

Right Out: 0.091 ± 0.011 $\chi^2/\text{NDF}: 399.5/18$

Left In: -0.391 ± 0.010 $\chi^2/\text{NDF}: 799.3/14$

Left: -0.368 ± 0.007 $\chi^2/\text{NDF}: 1261.4/31$

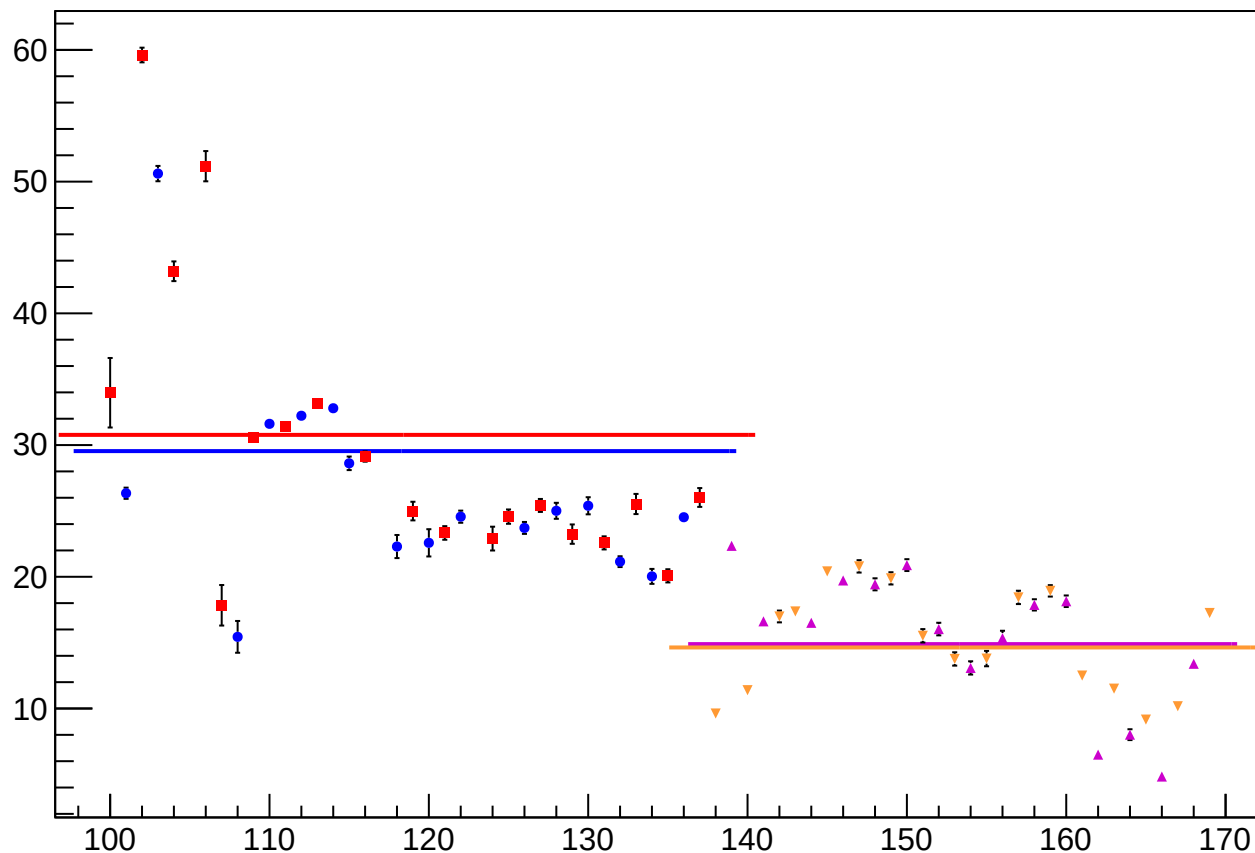
Right: 0.094 ± 0.008 $\chi^2/\text{NDF}: 698.7/34$

In: -0.163 ± 0.008 $\chi^2/\text{NDF}: 2106.0/30$

Out: -0.153 ± 0.008 $\chi^2/\text{NDF}: 1673.0/35$

All: -0.158 ± 0.005 $\chi^2/\text{NDF}: 3779.8/66$

reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 29.542 $\pm$ 0.092 χ^2 /NDF: 3372.2/15

Left Out: 14.635 $\pm$ 0.092 χ^2 /NDF: 1977.4/16

Right Out: 30.774 $\pm$ 0.080 χ^2 /NDF: 5079.2/18

Left In: 14.889 $\pm$ 0.098 χ^2 /NDF: 2956.9/14

Left: 14.754 $\pm$ 0.067 χ^2 /NDF: 4937.9/31

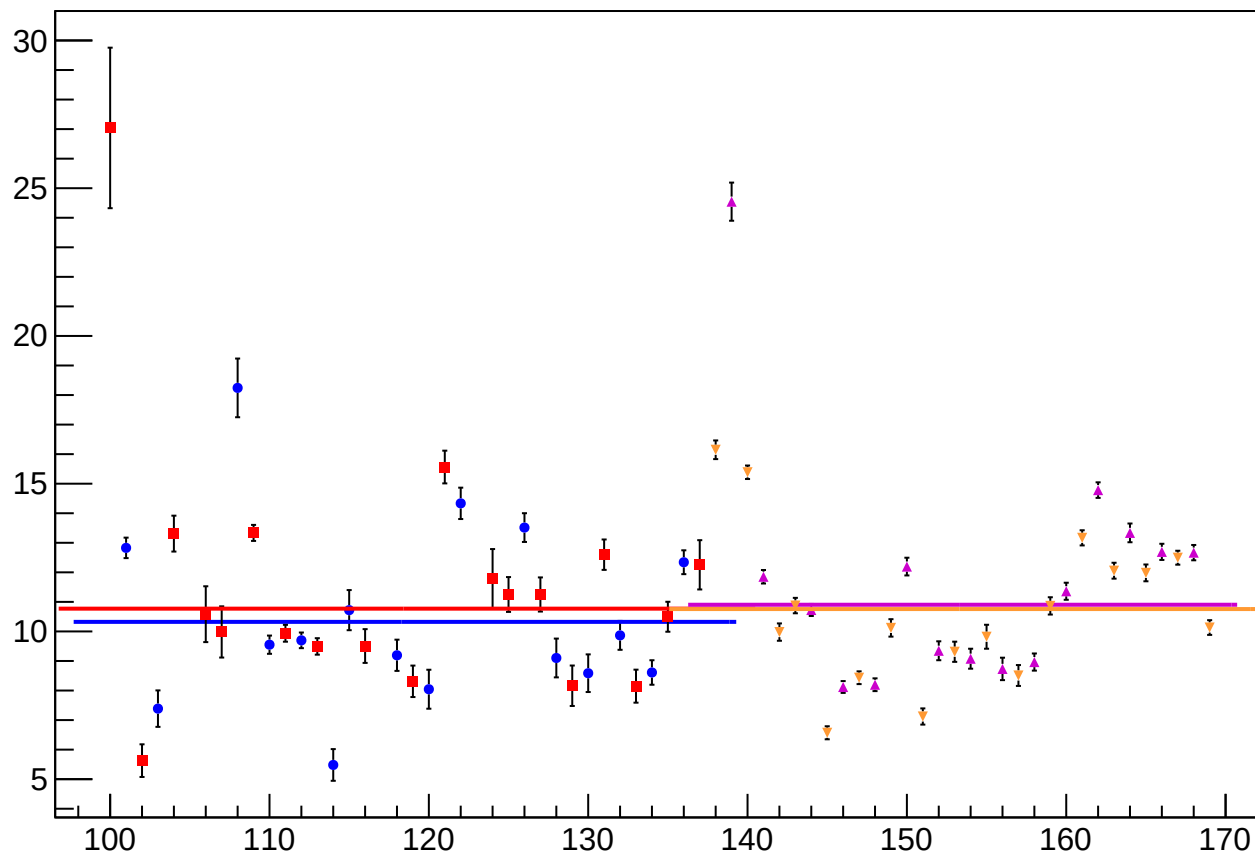
Right: 30.242 $\pm$ 0.060 χ^2 /NDF: 8553.4/34

In: 22.666 $\pm$ 0.067 χ^2 /NDF: 18243.5/30

Out: 23.814 $\pm$ 0.060 χ^2 /NDF: 24542.1/35

All: 23.299 $\pm$ 0.045 χ^2 /NDF: 42947.2/66

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.324+/-0.114 χ^2/NDF : 402.6/15

Left Out: 10.757+/-0.066 χ^2/NDF :1620.9/16

Right Out: 10.771+/-0.113 χ^2/NDF : 415.8/18

Left In: 10.903+/-0.070 χ^2/NDF :1331.4/14

Left: 10.826+/-0.048 χ^2/NDF : 2954.6/31

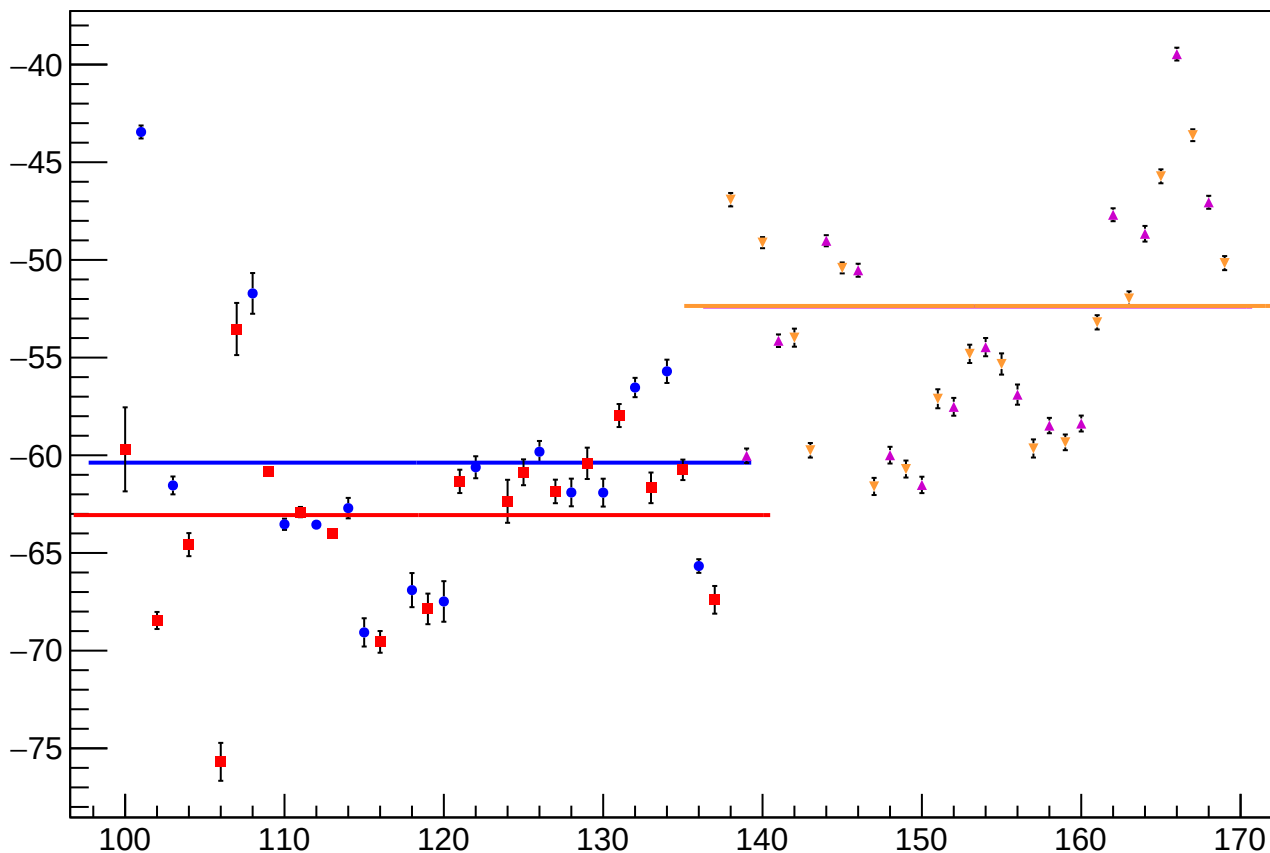
Right: 10.550+/-0.080 χ^2/NDF : 826.2/34

In: 10.745+/-0.060 χ^2/NDF :1752.8/30

Out: 10.761+/-0.057 χ^2/NDF :2036.7/35

All: 10.753+/-0.041 χ^2/NDF : 3789.5/66

reg_asym_sam7_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -60.377 ± 0.113 $\chi^2/\text{NDF}: 3597.6/15$

Left Out: -52.357 ± 0.091 $\chi^2/\text{NDF}: 3563.9/16$

Right Out: -63.061 ± 0.107 $\chi^2/\text{NDF}: 844.1/18$

Left In: -52.385 ± 0.096 $\chi^2/\text{NDF}: 4178.0/14$

Left: -52.370 ± 0.066 $\chi^2/\text{NDF}: 7742.0/31$

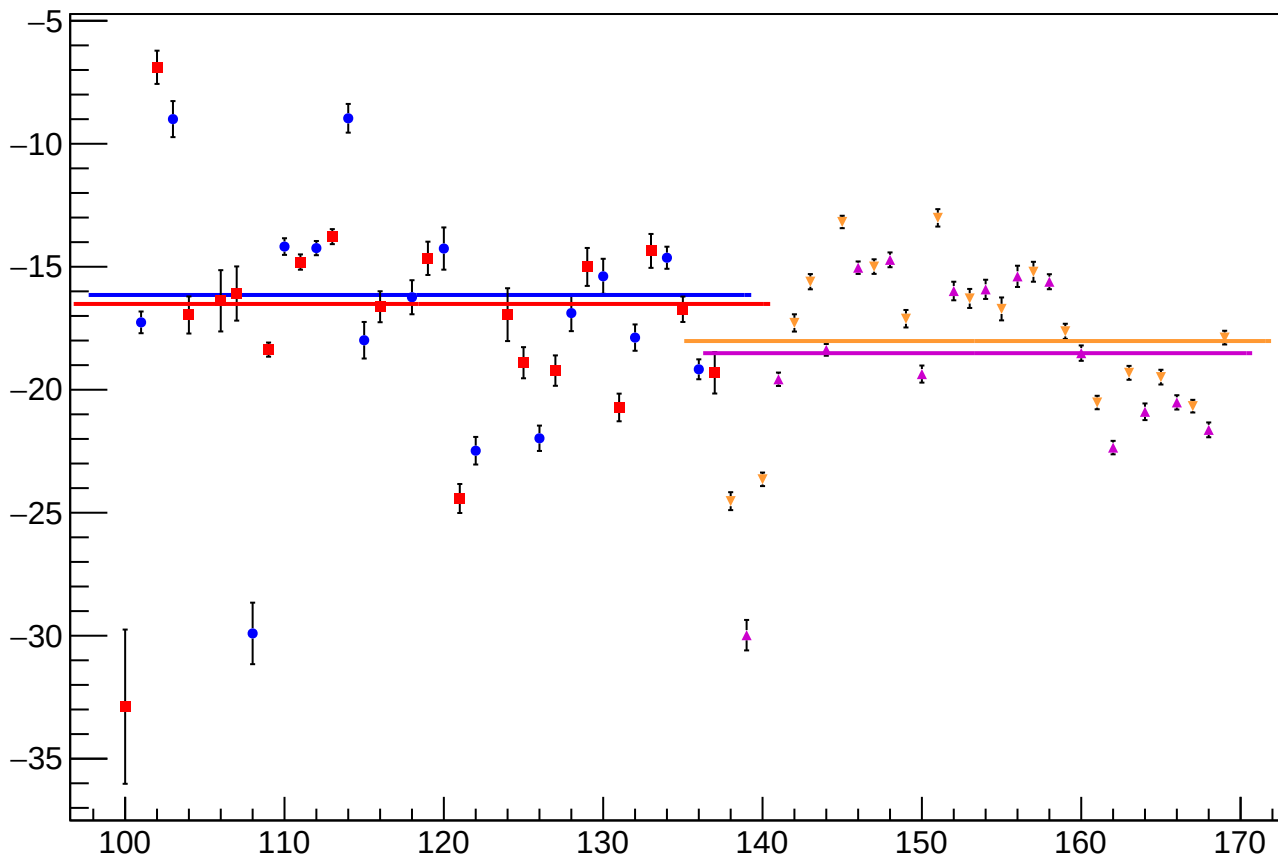
Right: -61.789 ± 0.078 $\chi^2/\text{NDF}: 4738.4/34$

In: -55.733 ± 0.073 $\chi^2/\text{NDF}: 10682.2/30$

Out: -56.848 ± 0.069 $\chi^2/\text{NDF}: 10189.8/35$

All: -56.319 ± 0.050 $\chi^2/\text{NDF}: 20994.2/66$

reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -16.147 ± 0.127 $\chi^2/\text{NDF}: 797.1/15$

Left Out: -18.020 ± 0.076 $\chi^2/\text{NDF}: 1791.8/16$

Right Out: -16.512 ± 0.125 $\chi^2/\text{NDF}: 684.7/18$

Left In: -18.513 ± 0.081 $\chi^2/\text{NDF}: 1343.6/14$

Left: -18.250 ± 0.055 $\chi^2/\text{NDF}: 3155.4/31$

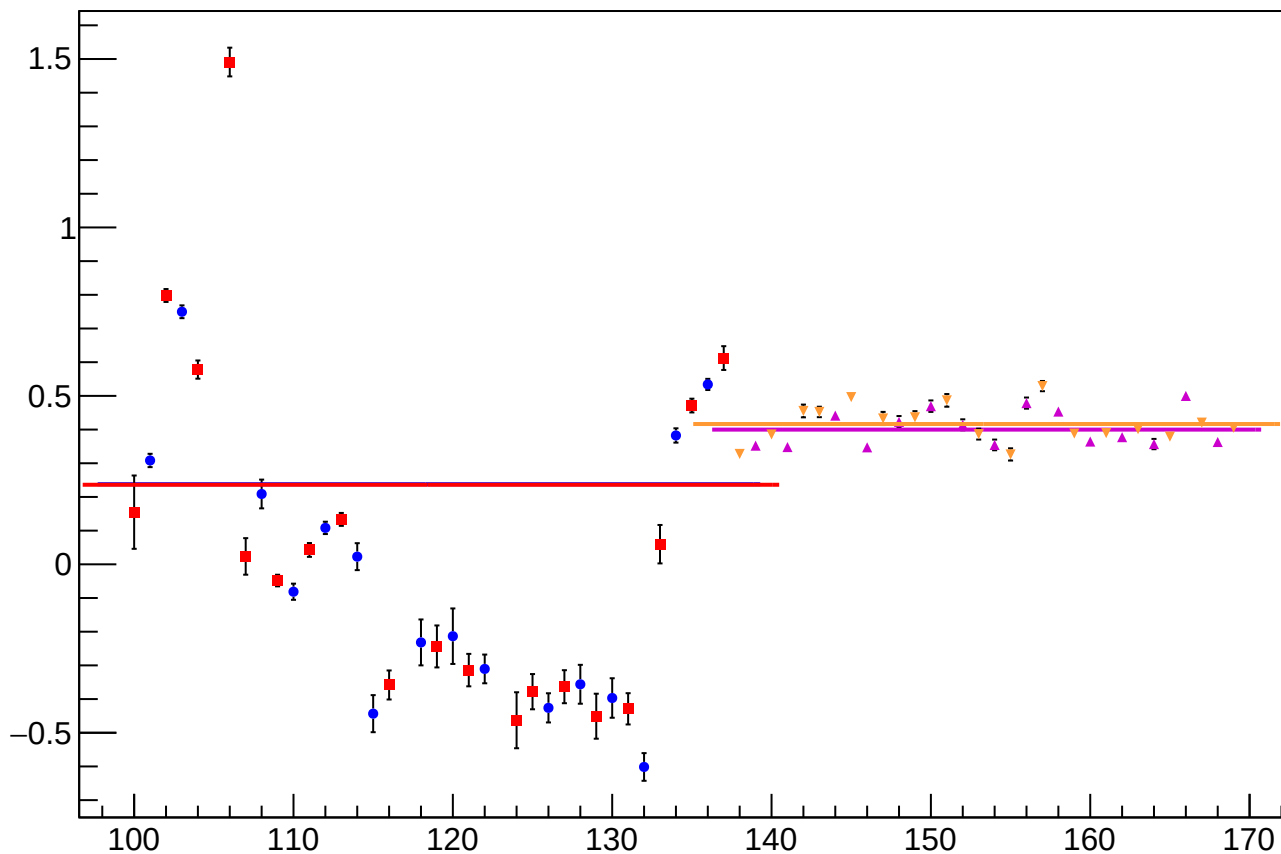
Right: -16.333 ± 0.089 $\chi^2/\text{NDF}: 1486.0/34$

In: -17.833 ± 0.068 $\chi^2/\text{NDF}: 2387.4/30$

Out: -17.615 ± 0.065 $\chi^2/\text{NDF}: 2583.6/35$

All: -17.718 ± 0.047 $\chi^2/\text{NDF}: 4976.4/66$

reg_asym_sam7_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.238 ± 0.007 χ^2/NDF : 2632.9/15

Left Out: 0.416 ± 0.003 χ^2/NDF : 225.7/16

Right Out: 0.236 ± 0.007 χ^2/NDF : 3595.0/18

Left In: 0.400 ± 0.004 χ^2/NDF : 203.7/14

Left: 0.409 ± 0.003 χ^2/NDF : 440.3/31

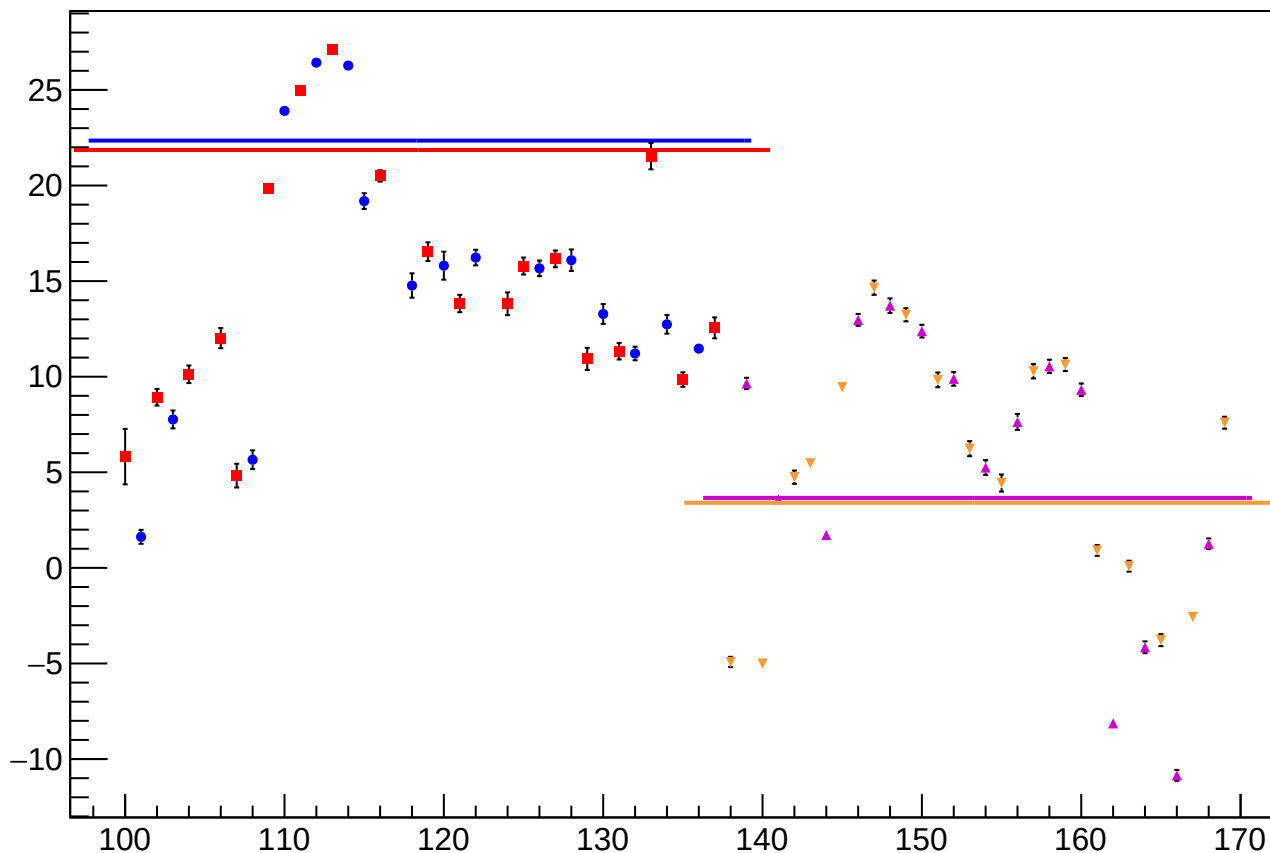
Right: 0.237 ± 0.005 χ^2/NDF : 6227.9/34

In: 0.366 ± 0.003 χ^2/NDF : 3252.5/30

Out: 0.382 ± 0.003 χ^2/NDF : 4342.3/35

All: 0.374 ± 0.002 χ^2/NDF : 7607.4/66

reg_asym_sam8_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 22.350 $\pm$ 0.057 χ^2 /NDF: 12336.9/15

Left Out: 3.407 $\pm$ 0.073 χ^2 /NDF: 7463.9/16

Right Out: 21.859 $\pm$ 0.046 χ^2 /NDF: 10692.4/18

Left In: 3.659 $\pm$ 0.079 χ^2 /NDF: 9248.4/14

Left: 3.524 $\pm$ 0.053 χ^2 /NDF: 16717.9/31

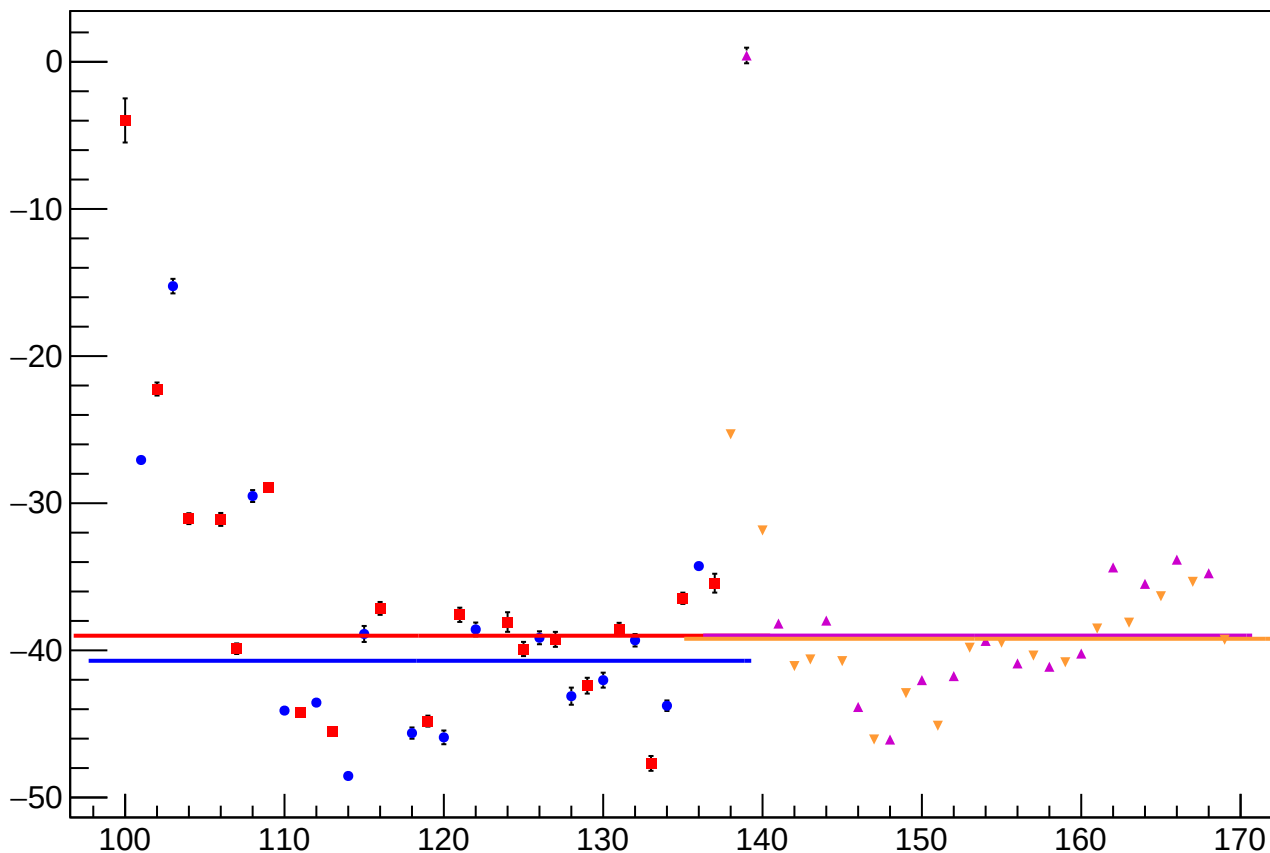
Right: 22.056 $\pm$ 0.036 χ^2 /NDF: 23074.3/34

In: 15.975 $\pm$ 0.046 χ^2 /NDF: 58839.0/30

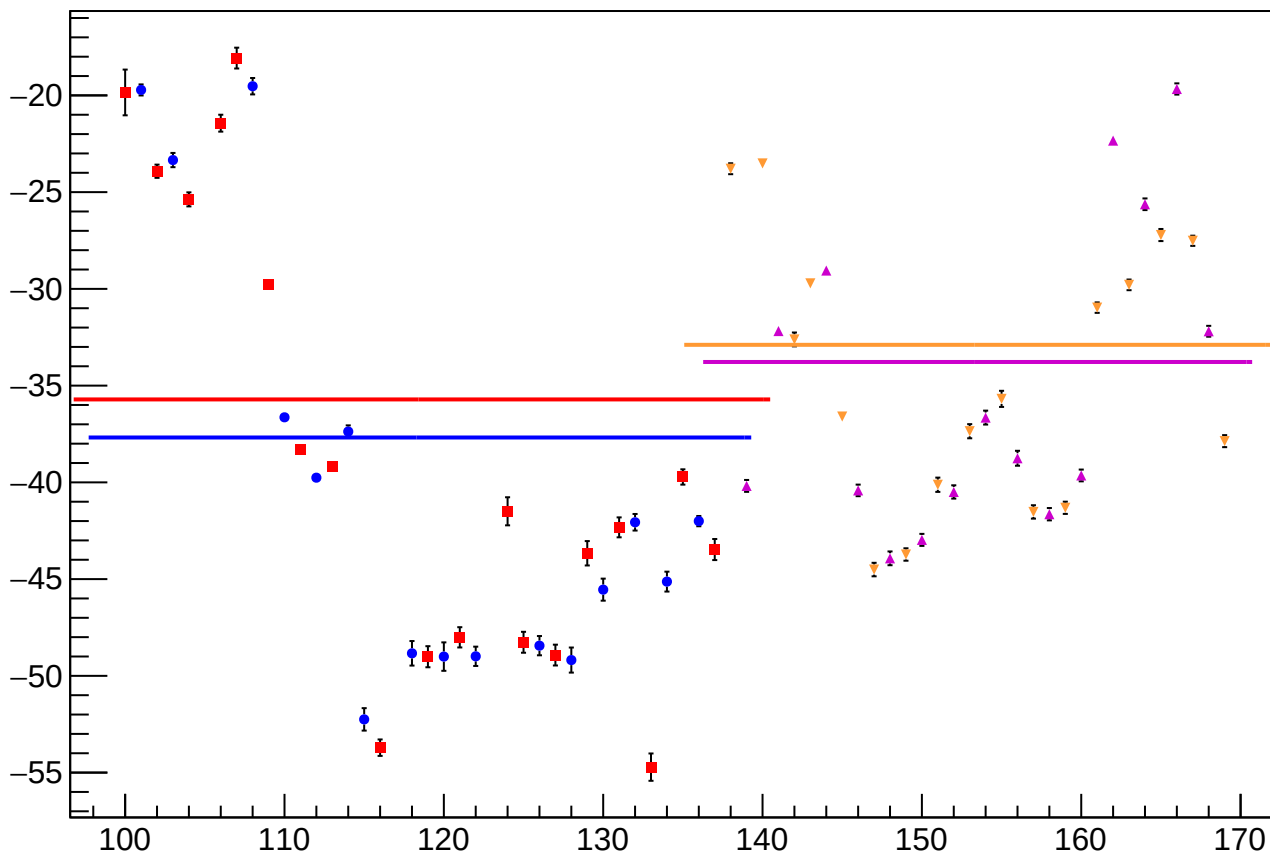
Out: 16.560 $\pm$ 0.039 χ^2 /NDF: 63793.5/35

All: 16.314 $\pm$ 0.030 χ^2 /NDF: 122726.7/66

reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected



reg_asym_sam8_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -37.681 ± 0.074 $\chi^2/\text{NDF}: 10853.9/15$

Left Out: -32.891 ± 0.072 $\chi^2/\text{NDF}: 8573.5/16$

Right Out: -35.714 ± 0.064 $\chi^2/\text{NDF}: 13274.5/18$

Left In: -33.778 ± 0.077 $\chi^2/\text{NDF}: 9873.0/14$

Left: -33.306 ± 0.053 $\chi^2/\text{NDF}: 18517.2/31$

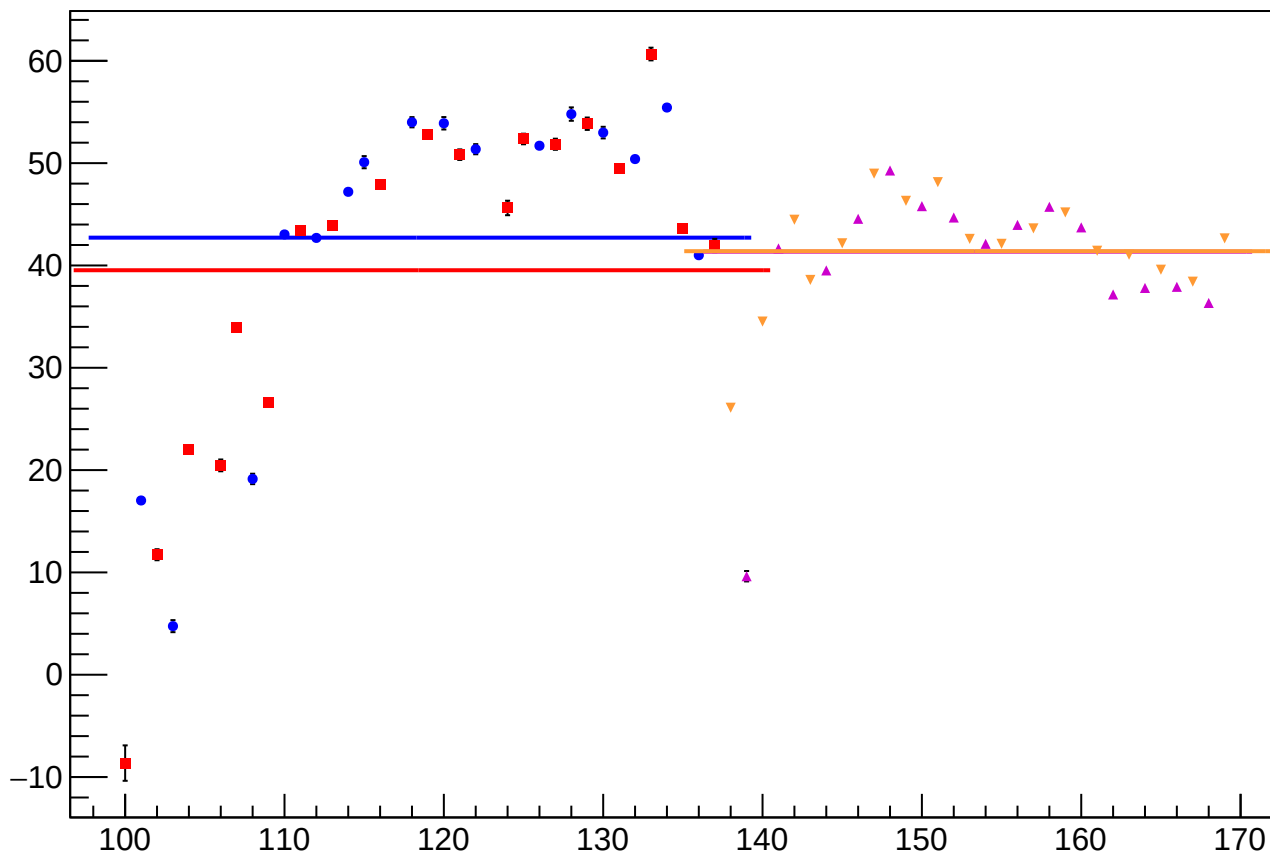
Right: -36.564 ± 0.048 $\chi^2/\text{NDF}: 24532.6/34$

In: -35.812 ± 0.053 $\chi^2/\text{NDF}: 22068.1/30$

Out: -34.463 ± 0.048 $\chi^2/\text{NDF}: 22701.2/35$

All: -35.068 ± 0.036 $\chi^2/\text{NDF}: 45123.6/66$

reg_asym_sam8_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.718 ± 0.085 $\chi^2/\text{NDF}: 14765.0/15$

Left Out: 41.395 ± 0.060 $\chi^2/\text{NDF}: 6530.5/16$

Right Out: 39.533 ± 0.078 $\chi^2/\text{NDF}: 17978.2/18$

Left In: 41.348 ± 0.065 $\chi^2/\text{NDF}: 7256.4/14$

Left: 41.374 ± 0.044 $\chi^2/\text{NDF}: 13787.2/31$

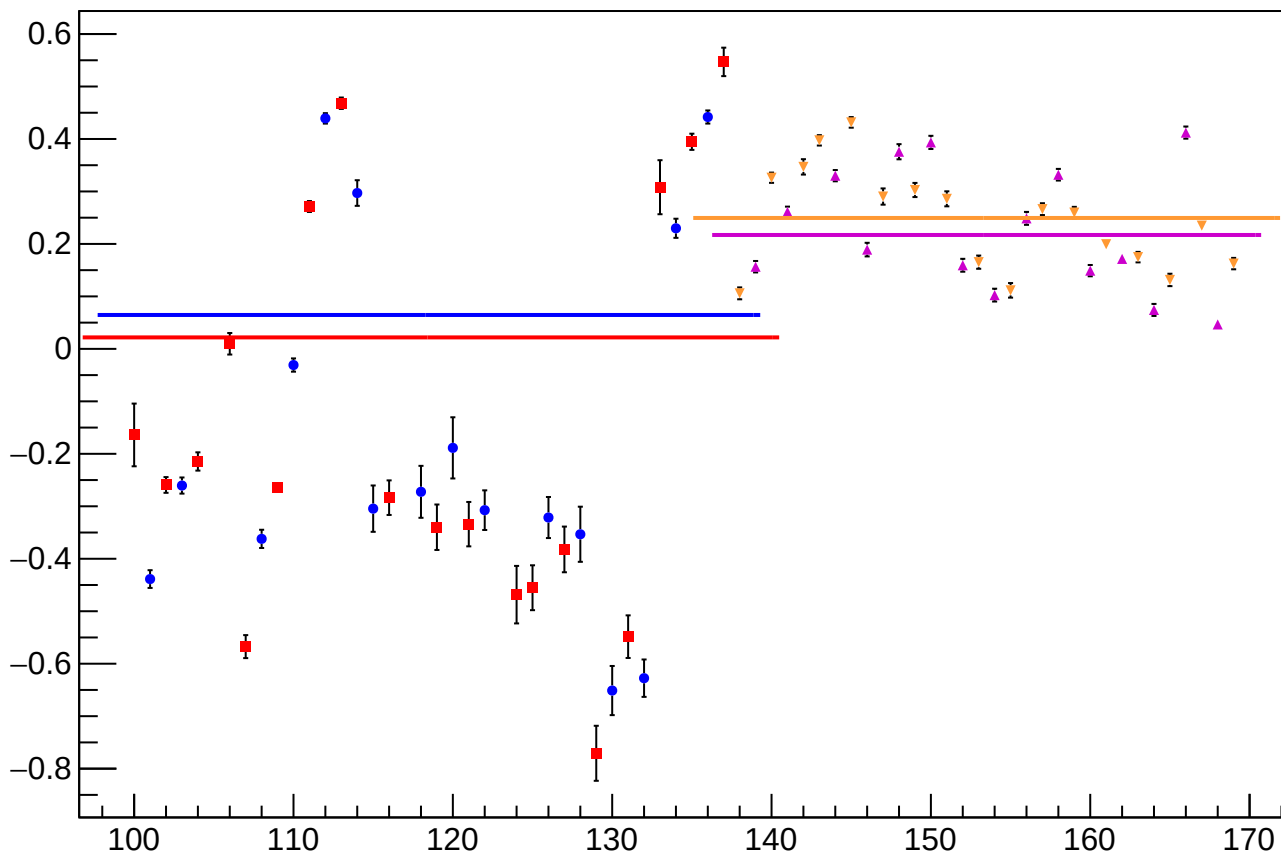
Right: 40.991 ± 0.058 $\chi^2/\text{NDF}: 33503.2/34$

In: 41.851 ± 0.052 $\chi^2/\text{NDF}: 22185.5/30$

Out: 40.709 ± 0.047 $\chi^2/\text{NDF}: 24867.0/35$

All: 41.233 ± 0.035 $\chi^2/\text{NDF}: 47318.3/66$

reg_asym_sam8_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.065 $\pm$ 0.005 χ^2 /NDF: 5497.5/15

Left Out: 0.249 $\pm$ 0.003 χ^2 /NDF:1236.4/16

Right Out: 0.022 $\pm$ 0.004 χ^2 /NDF: 6405.3/18

Left In: 0.217 $\pm$ 0.003 χ^2 /NDF:1521.3/14

Left: 0.234 $\pm$ 0.002 χ^2 /NDF: 2823.4/31

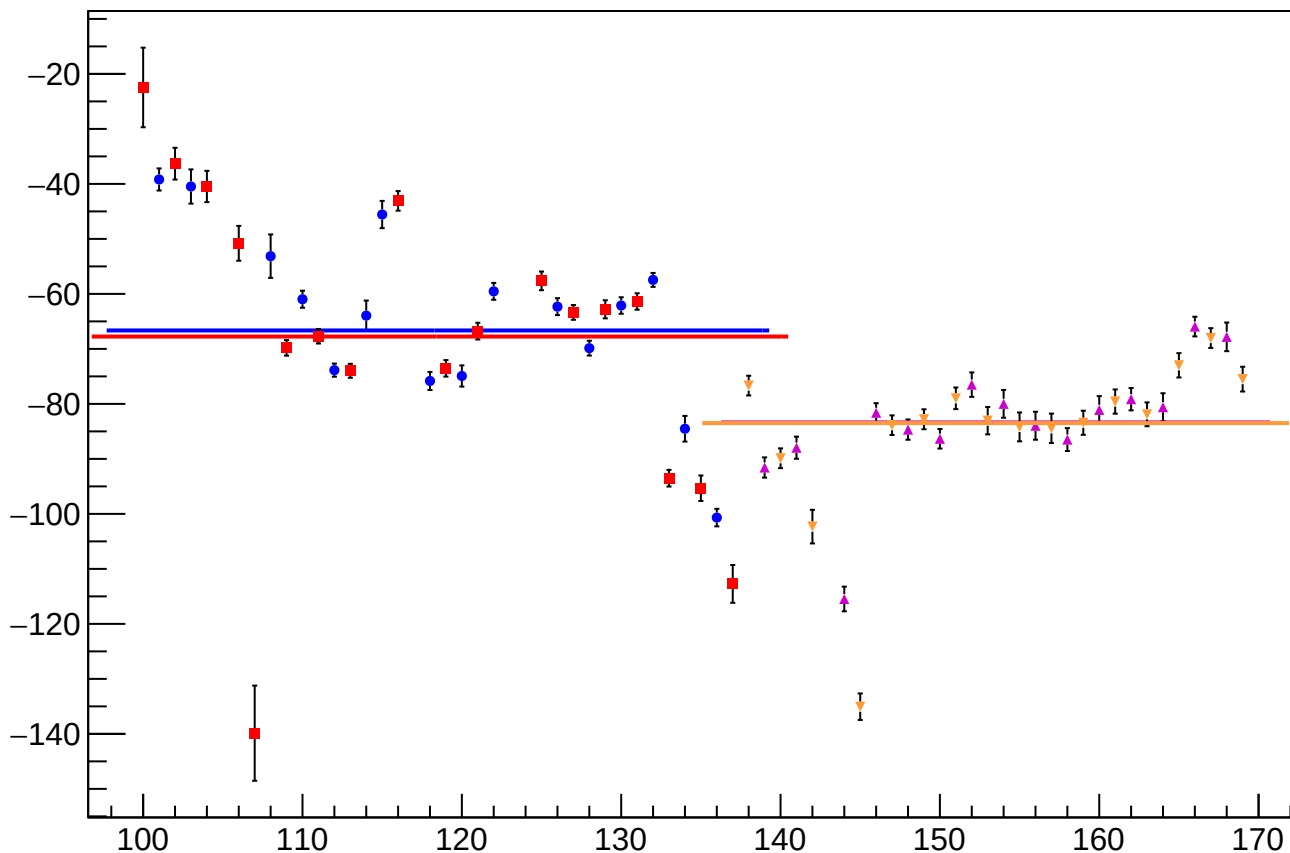
Right: 0.041 $\pm$ 0.003 χ^2 /NDF: 11945.6/34

In: 0.177 $\pm$ 0.002 χ^2 /NDF:7747.3/30

Out: 0.185 $\pm$ 0.002 χ^2 /NDF:9575.8/35

All: 0.181 $\pm$ 0.002 χ^2 /NDF: 17329.6/66

reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -66.648 ± 0.426 $\chi^2/\text{NDF}: 1052.4/15$

Left Out: -83.489 ± 0.530 $\chi^2/\text{NDF}: 640.8/15$

Right Out: -67.755 ± 0.419 $\chi^2/\text{NDF}: 1255.4/17$

Left In: -83.366 ± 0.539 $\chi^2/\text{NDF}: 385.2/14$

Left: -83.429 ± 0.378 $\chi^2/\text{NDF}: 1026.0/30$

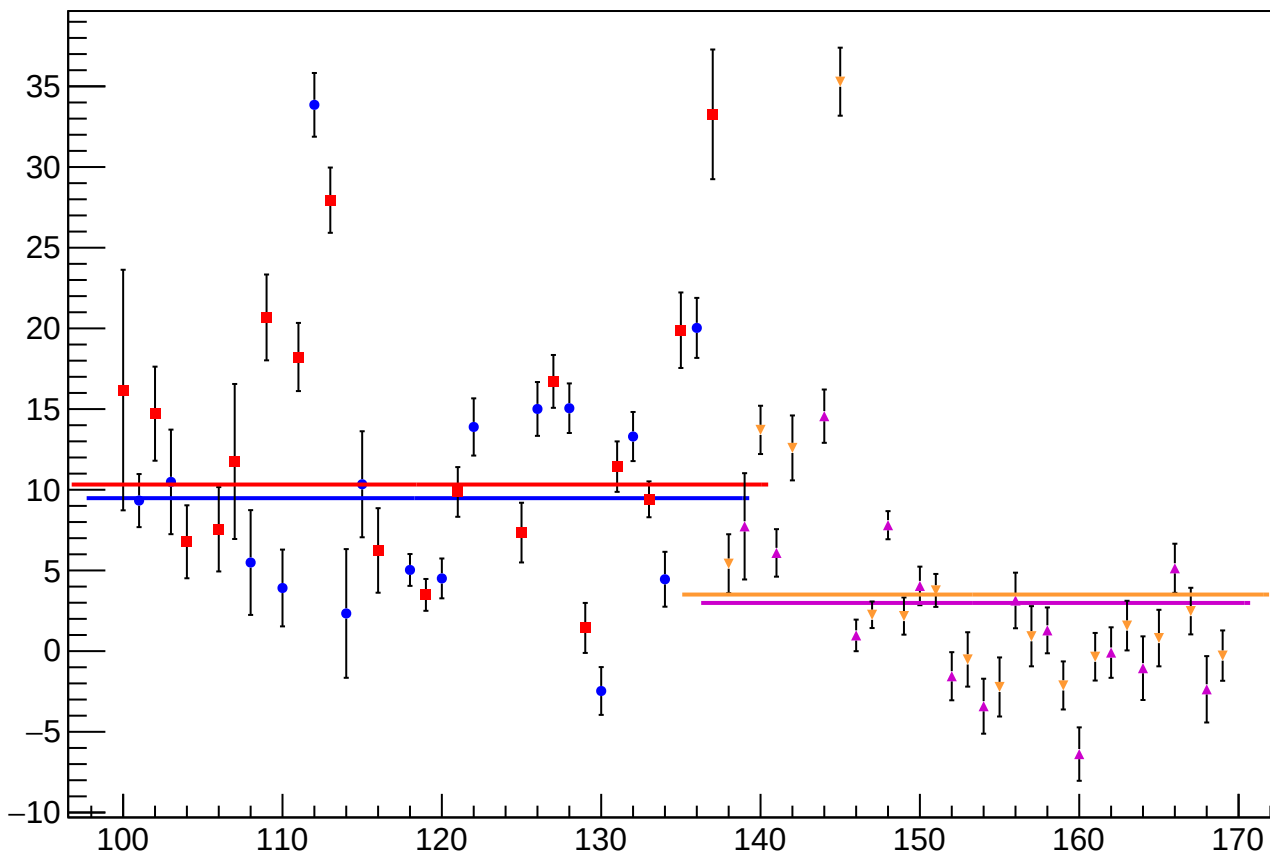
Right: -67.210 ± 0.299 $\chi^2/\text{NDF}: 2311.2/33$

In: -73.074 ± 0.334 $\chi^2/\text{NDF}: 2029.3/30$

Out: -73.813 ± 0.329 $\chi^2/\text{NDF}: 2437.9/33$

All: -73.450 ± 0.234 $\chi^2/\text{NDF}: 4469.8/64$

reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.480 ± 0.428 χ^2/NDF : 341.9/15

Left Out: 3.507 ± 0.356 χ^2/NDF : 347.9/15

Right Out: 10.324 ± 0.436 χ^2/NDF : 263.4/17

Left In: 2.987 ± 0.370 χ^2/NDF : 164.9/14

Left: 3.257 ± 0.256 χ^2/NDF : 513.7/30

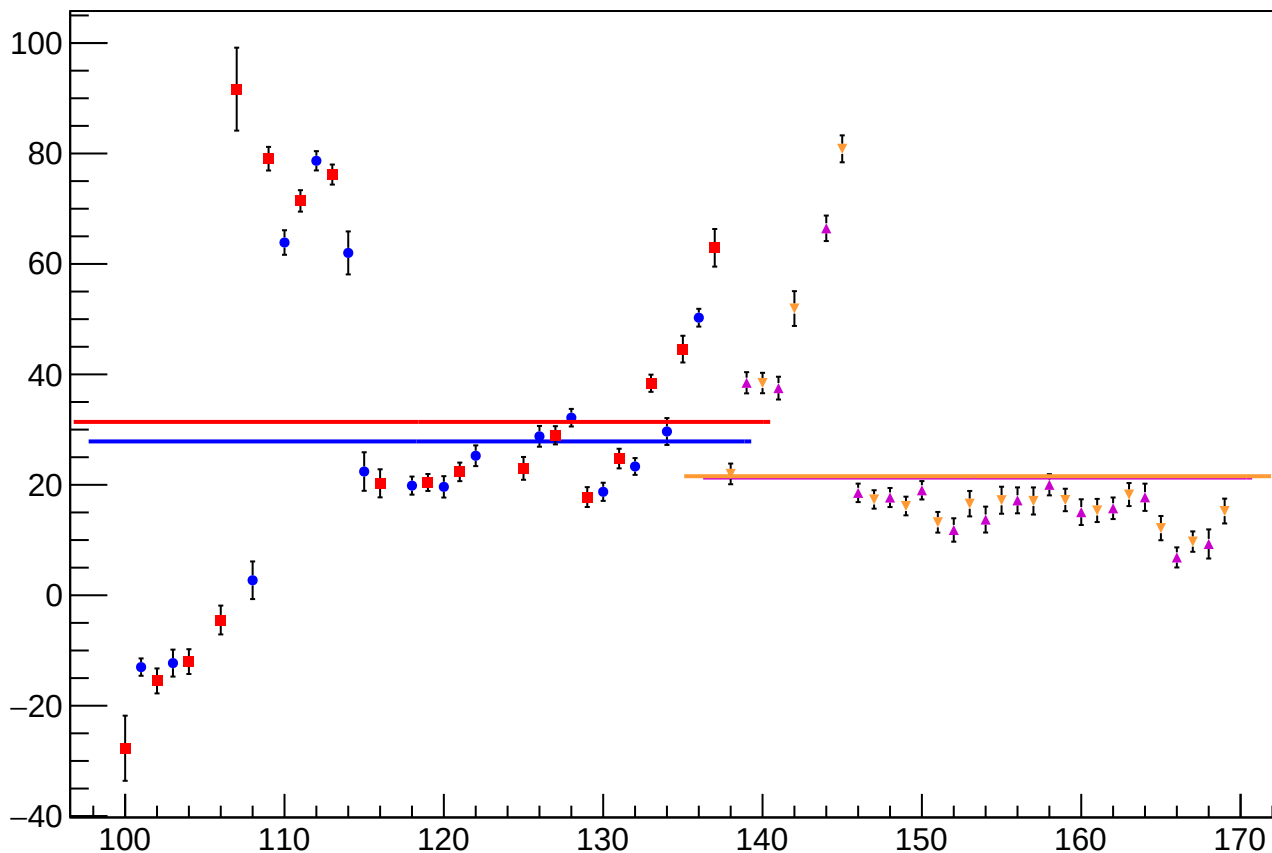
Right: 9.895 ± 0.305 χ^2/NDF : 607.3/33

In: 5.762 ± 0.280 χ^2/NDF : 638.5/30

Out: 6.236 ± 0.276 χ^2/NDF : 758.2/33

All: 6.003 ± 0.196 χ^2/NDF : 1398.1/64

reg_asym_usl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 27.860 $\pm$ 0.482 χ^2/NDF : 2474.0/15

Left Out: 21.559 $\pm$ 0.516 χ^2/NDF : 897.1/15

Right Out: 31.394 $\pm$ 0.488 χ^2/NDF : 3011.4/17

Left In: 21.319 $\pm$ 0.523 χ^2/NDF : 668.3/14

Left: 21.440 $\pm$ 0.367 χ^2/NDF : 1565.5/30

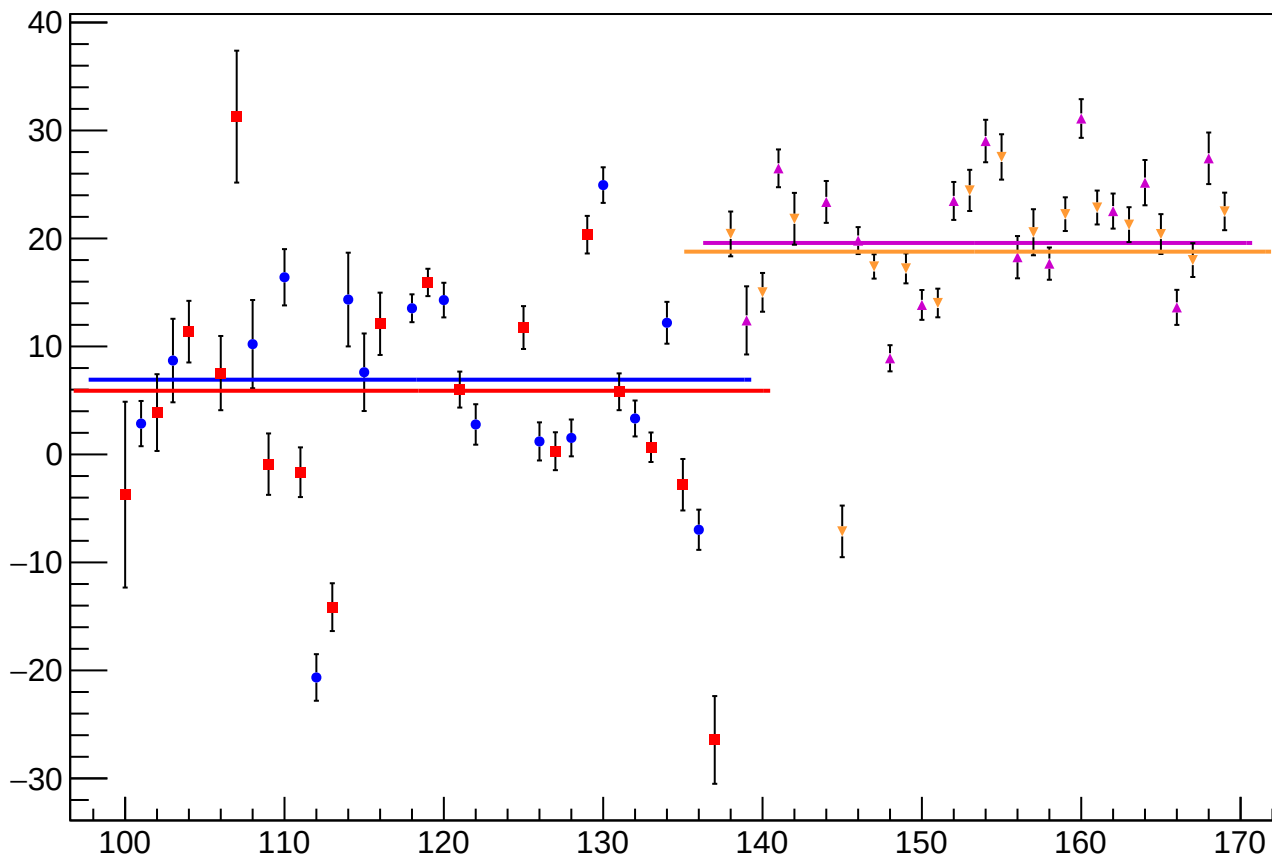
Right: 29.608 $\pm$ 0.343 χ^2/NDF : 5511.9/33

In: 24.851 $\pm$ 0.355 χ^2/NDF : 3226.8/30

Out: 26.752 $\pm$ 0.354 χ^2/NDF : 4100.6/33

All: 25.802 $\pm$ 0.251 χ^2/NDF : 7341.8/64

reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 6.922 ± 0.496 χ^2/NDF : 444.3/15

Left Out: 18.779 ± 0.418 χ^2/NDF : 186.4/15

Right Out: 5.896 ± 0.502 χ^2/NDF : 367.7/17

Left In: 19.584 ± 0.434 χ^2/NDF : 225.6/14

Left: 19.166 ± 0.301 χ^2/NDF : 413.8/30

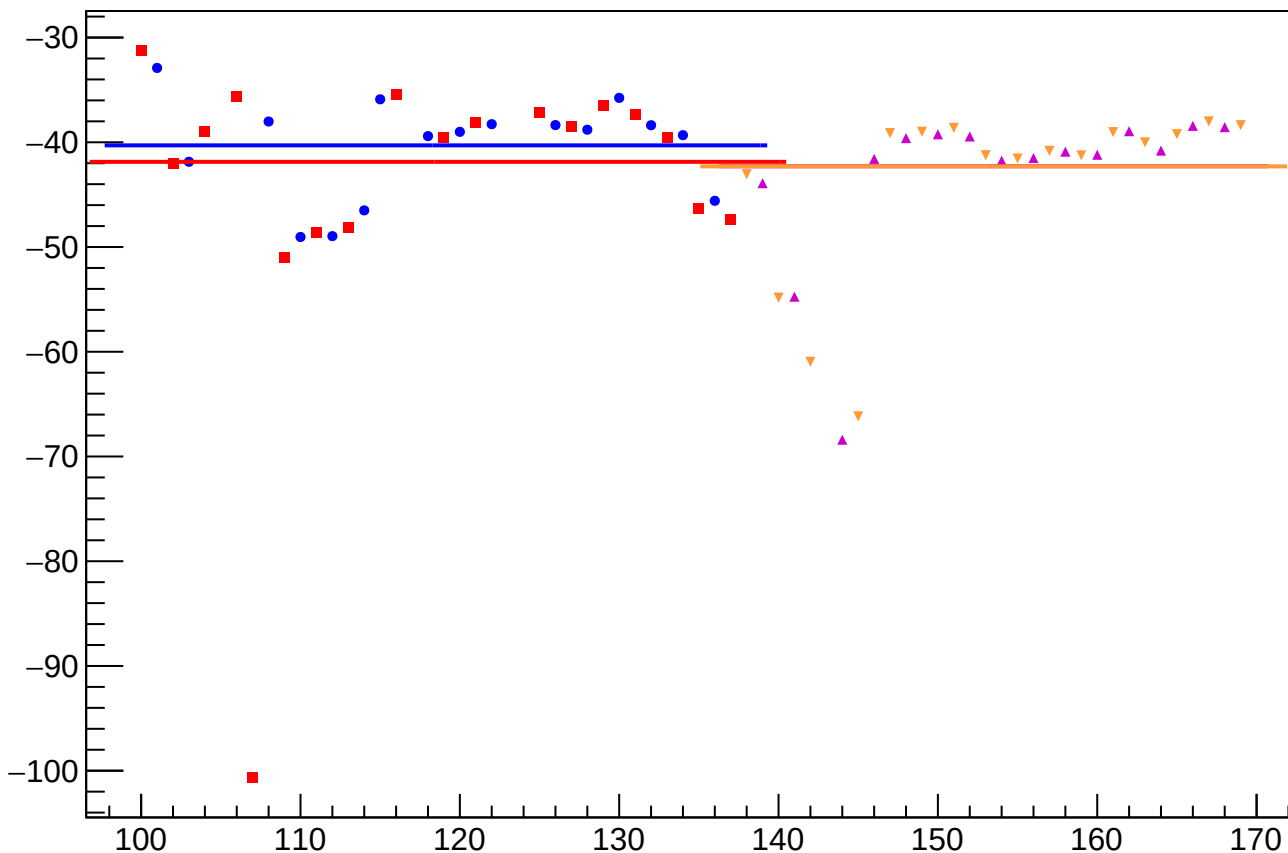
Right: 6.415 ± 0.353 χ^2/NDF : 814.1/33

In: 14.086 ± 0.327 χ^2/NDF : 1039.3/30

Out: 13.498 ± 0.321 χ^2/NDF : 943.1/33

All: 13.787 ± 0.229 χ^2/NDF : 1984.0/64

reg_asym_usl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.293+/-0.031 χ^2/NDF : 20663.5/15

Left Out: -42.302+/-0.020 χ^2/NDF :123651.4/15

Right Out: -41.867+/-0.032 χ^2/NDF : 58734.8/17

Left In: -42.287+/-0.020 χ^2/NDF :98270.1/14

Left: -42.294+/-0.014 χ^2/NDF : 221921.7/30

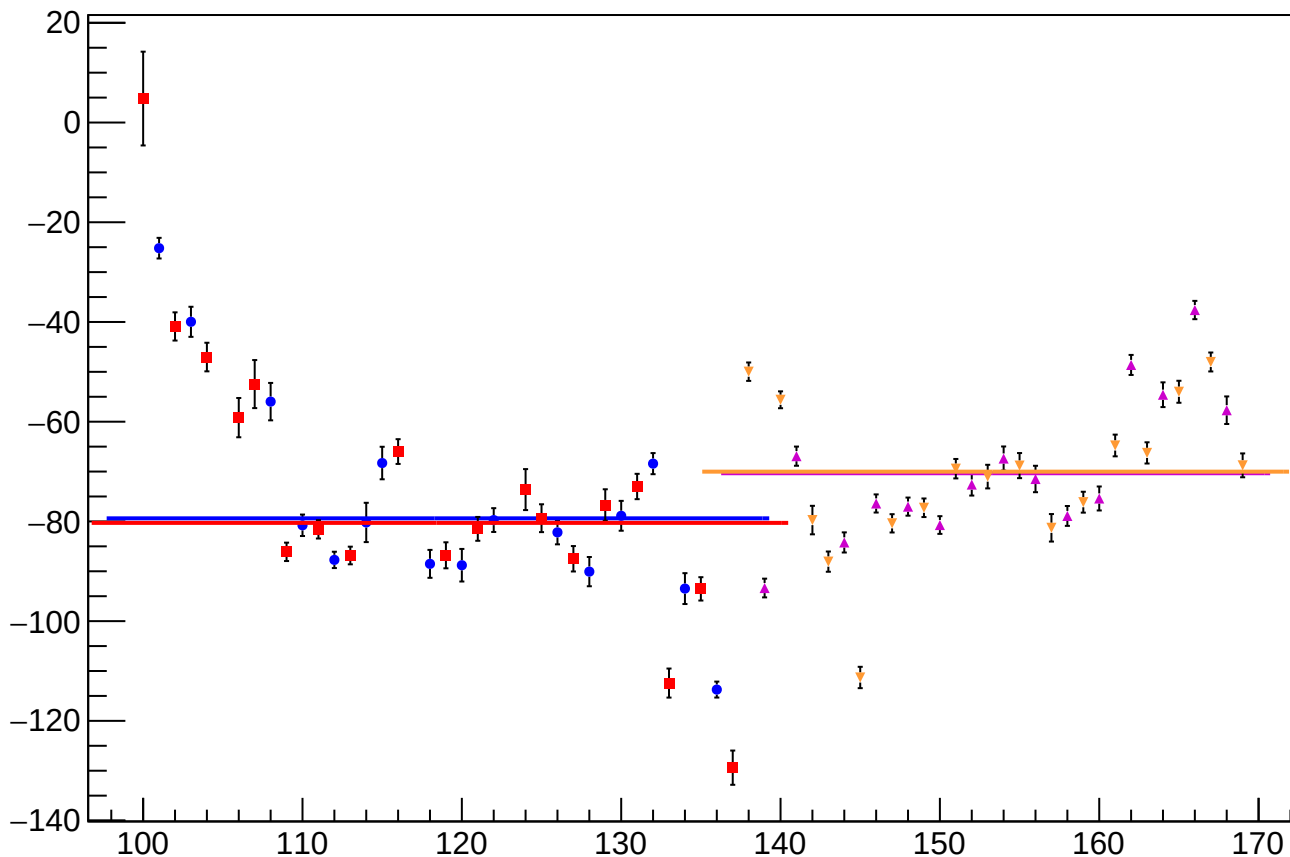
Right: -41.063+/-0.022 χ^2/NDF : 80626.6/33

In: -41.720+/-0.017 χ^2/NDF :121818.9/30

Out: -42.184+/-0.017 χ^2/NDF :182519.6/33

All: -41.953+/-0.012 χ^2/NDF : 304723.1/64

reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -79.382 ± 0.611 $\chi^2/\text{NDF}: 1475.9/15$

Left Out: -70.018 ± 0.509 $\chi^2/\text{NDF}: 922.0/16$

Right Out: -80.294 ± 0.604 $\chi^2/\text{NDF}: 914.7/18$

Left In: -70.337 ± 0.534 $\chi^2/\text{NDF}: 781.2/14$

Left: -70.169 ± 0.369 $\chi^2/\text{NDF}: 1703.4/31$

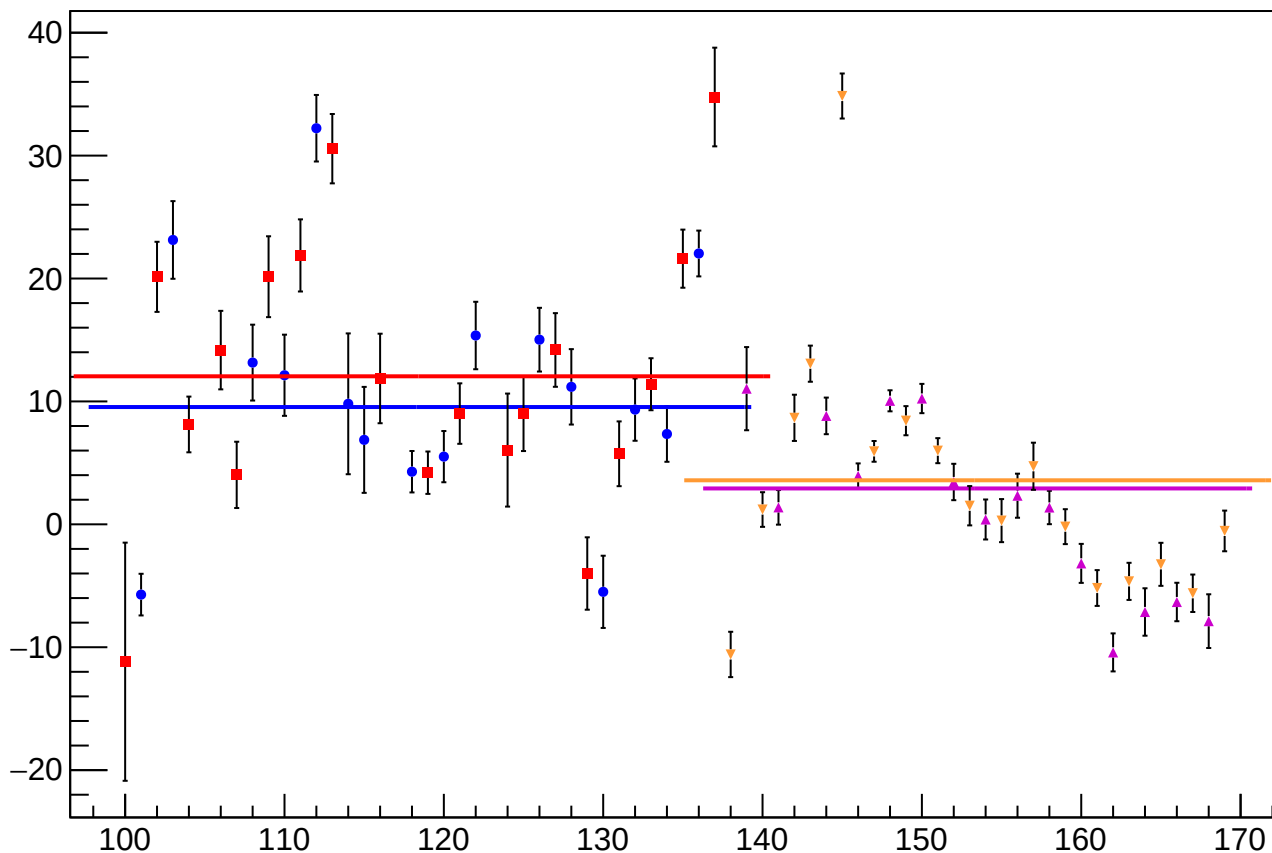
Right: -79.844 ± 0.430 $\chi^2/\text{NDF}: 2391.7/34$

In: -74.256 ± 0.402 $\chi^2/\text{NDF}: 2381.3/30$

Out: -74.285 ± 0.389 $\chi^2/\text{NDF}: 2006.0/35$

All: -74.271 ± 0.280 $\chi^2/\text{NDF}: 4387.2/66$

reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.543 ± 0.621 χ^2/NDF : 267.1/15

Left Out: 3.582 ± 0.344 χ^2/NDF : 568.6/16

Right Out: 12.044 ± 0.637 χ^2/NDF : 195.8/18

Left In: 2.919 ± 0.366 χ^2/NDF : 310.3/14

Left: 3.271 ± 0.251 χ^2/NDF : 880.6/31

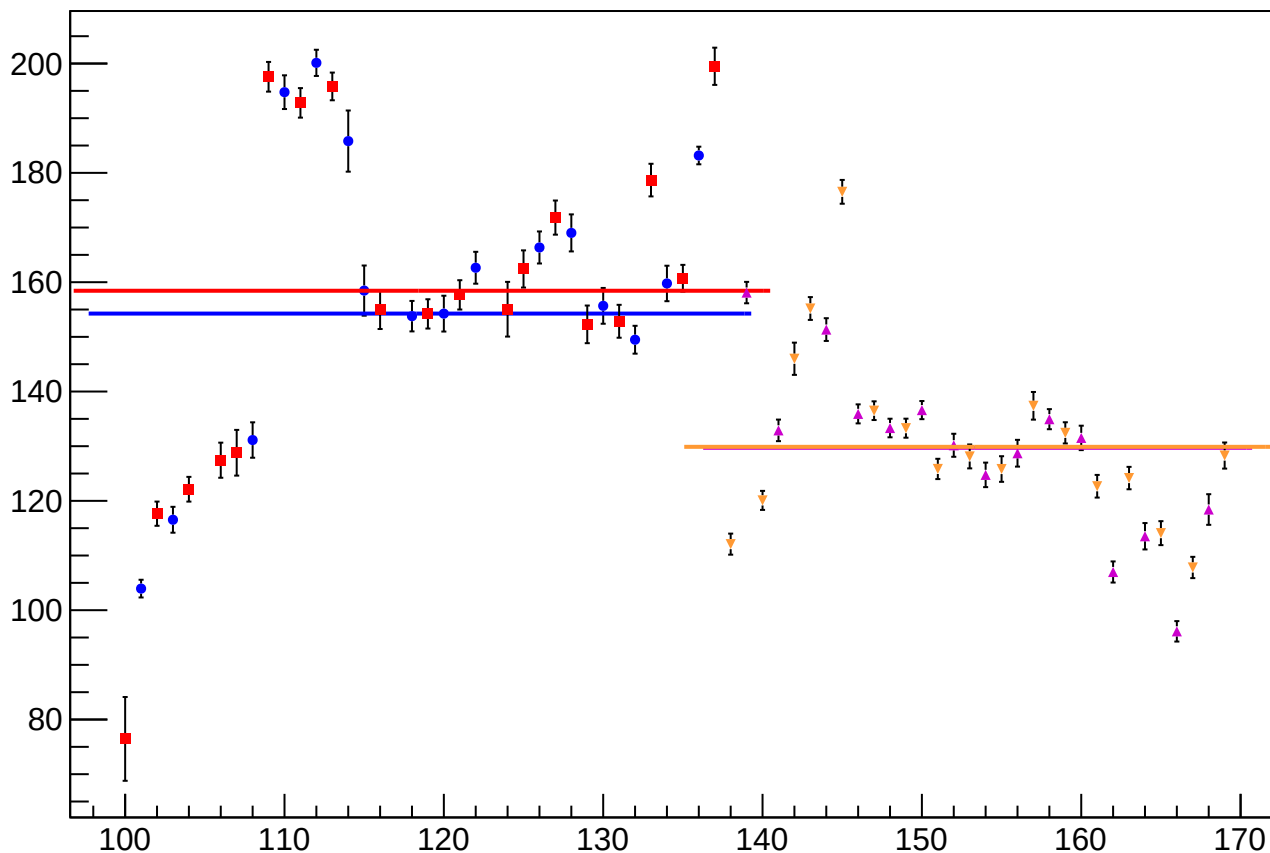
Right: 10.762 ± 0.445 χ^2/NDF : 470.8/34

In: 4.625 ± 0.315 χ^2/NDF : 661.7/30

Out: 5.495 ± 0.303 χ^2/NDF : 901.0/35

All: 5.078 ± 0.218 χ^2/NDF : 1566.7/66

reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 154.260 $\pm$ 0.662 χ^2 /NDF: 2213.7/15

Left Out: 129.884 $\pm$ 0.497 χ^2 /NDF:991.2/16

Right Out: 158.435 $\pm$ 0.683 χ^2 /NDF: 1664.2/18

Left In: 129.705 $\pm$ 0.518 χ^2 /NDF:891.0/14

Left: 129.798 $\pm$ 0.359 χ^2 /NDF: 1882.2/31

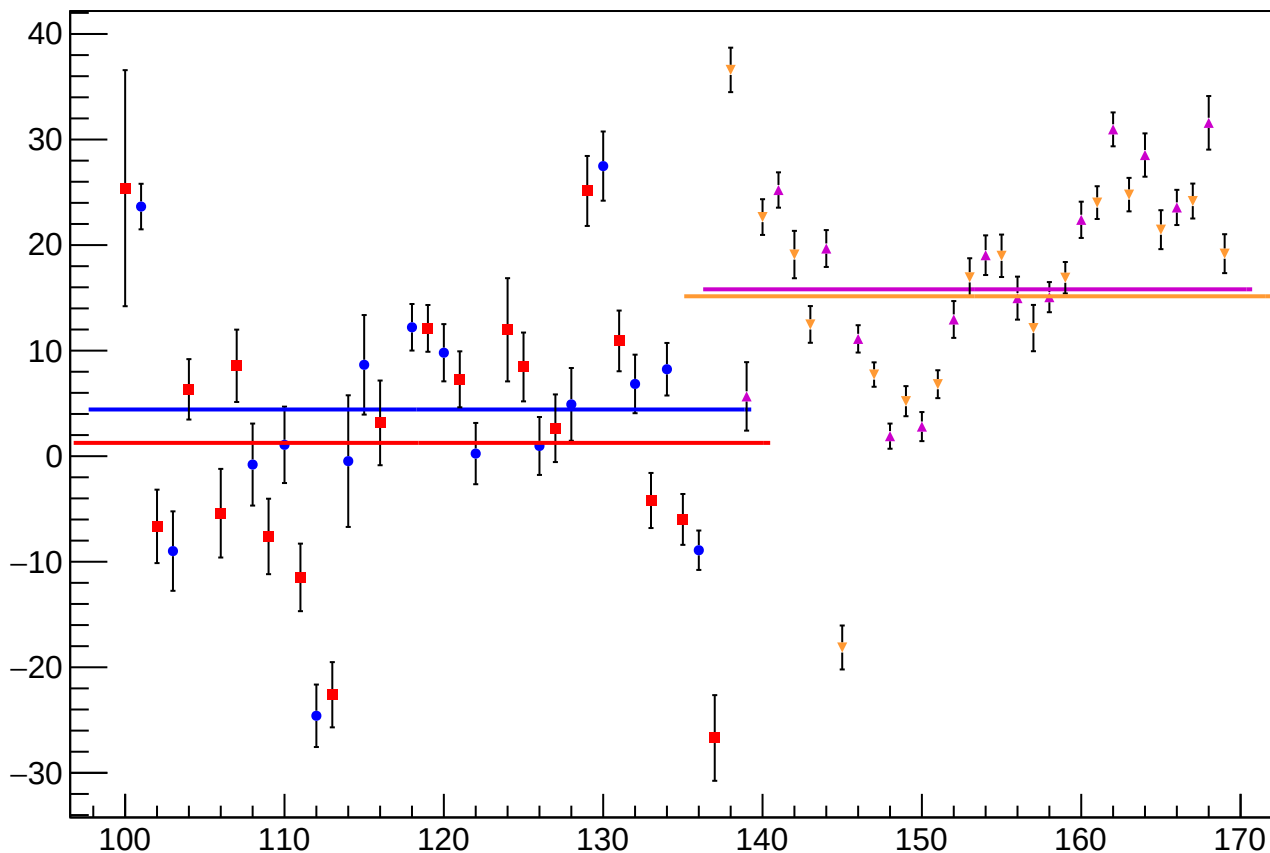
Right: 156.282 $\pm$ 0.475 χ^2 /NDF: 3897.2/34

In: 139.031 $\pm$ 0.408 χ^2 /NDF:3958.6/30

Out: 139.776 $\pm$ 0.402 χ^2 /NDF:3798.8/35

All: 139.409 $\pm$ 0.286 χ^2 /NDF: 7759.1/66

reg_asym_usr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 4.424 ± 0.714 $\chi^2/\text{NDF}: 316.1/15$

Left Out: 15.149 ± 0.404 $\chi^2/\text{NDF}: 637.3/16$

Right Out: 1.260 ± 0.732 $\chi^2/\text{NDF}: 264.9/18$

Left In: 15.809 ± 0.429 $\chi^2/\text{NDF}: 493.3/14$

Left: 15.459 ± 0.294 $\chi^2/\text{NDF}: 1131.9/31$

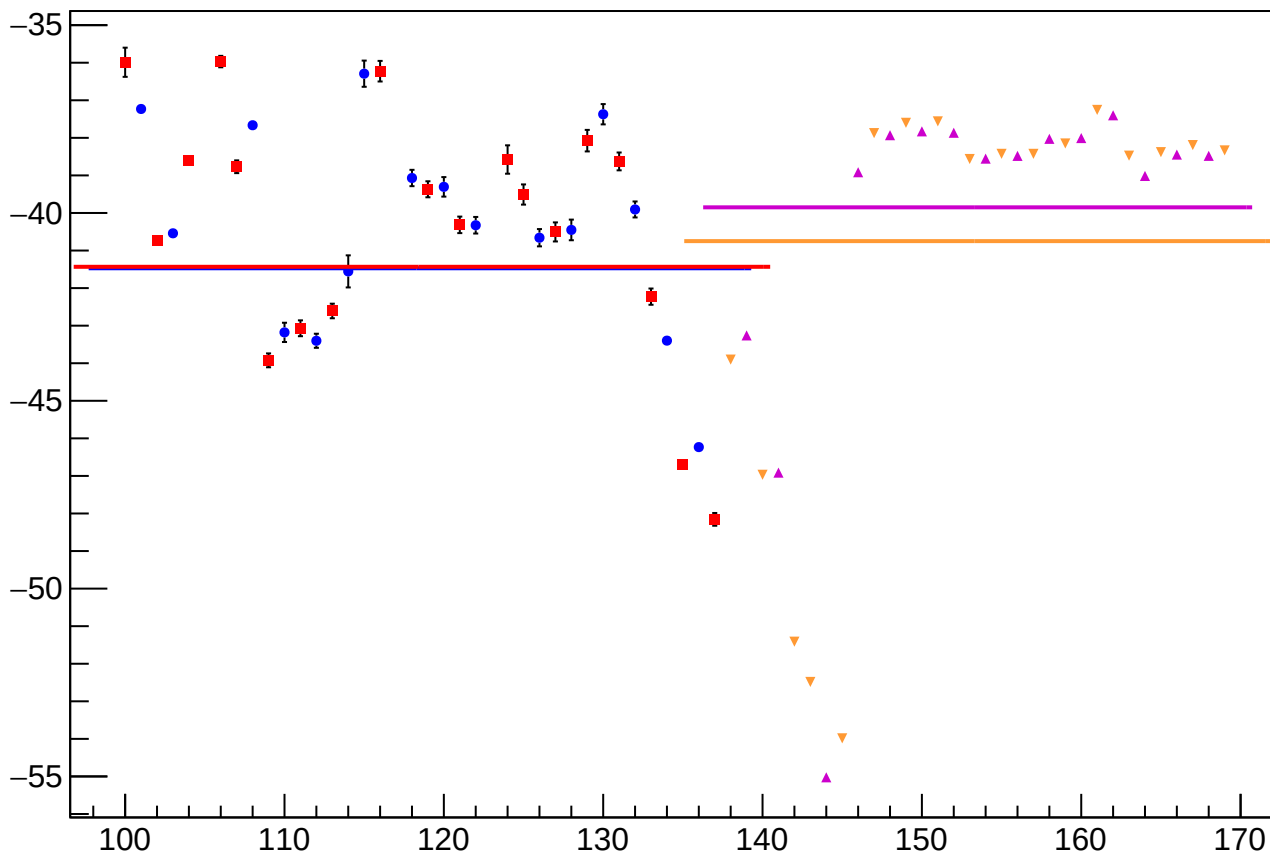
Right: 2.881 ± 0.511 $\chi^2/\text{NDF}: 590.5/34$

In: 12.787 ± 0.368 $\chi^2/\text{NDF}: 996.2/30$

Out: 11.903 ± 0.354 $\chi^2/\text{NDF}: 1178.3/35$

All: 12.328 ± 0.255 $\chi^2/\text{NDF}: 2177.5/66$

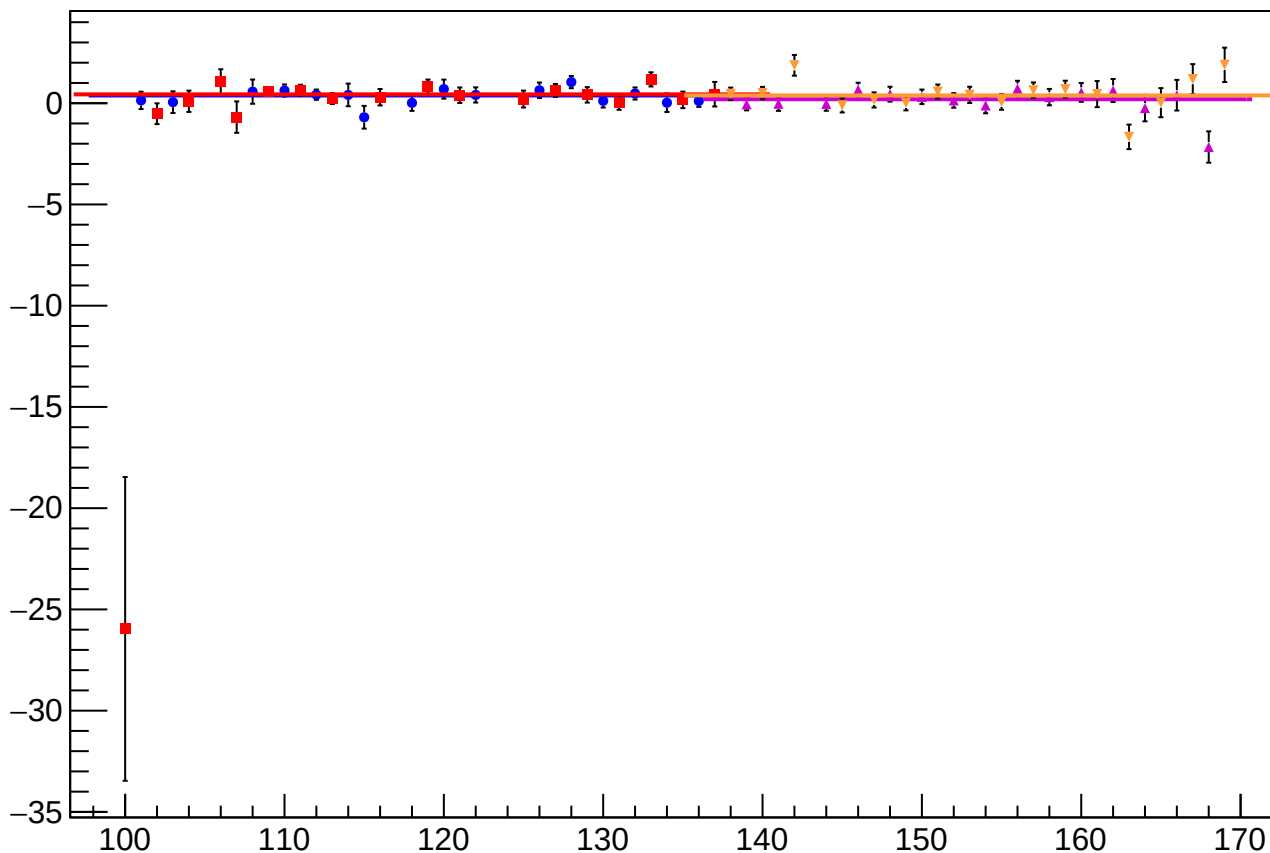
reg_asym_usr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -41.472 ± 0.038 $\chi^2/\text{NDF}: 7912.0/15$
 Left Out: -40.749 ± 0.019 $\chi^2/\text{NDF}: 73143.6/16$
 Right Out: -41.433 ± 0.040 $\chi^2/\text{NDF}: 8225.4/18$
 Left In: -39.850 ± 0.020 $\chi^2/\text{NDF}: 42845.6/14$

Left: -40.315 ± 0.014 $\chi^2/\text{NDF}: 117075.1/31$
 Right: -41.453 ± 0.027 $\chi^2/\text{NDF}: 16137.9/34$
 In: -40.190 ± 0.017 $\chi^2/\text{NDF}: 52189.1/30$
 Out: -40.877 ± 0.017 $\chi^2/\text{NDF}: 81612.2/35$
 All: -40.541 ± 0.012 $\chi^2/\text{NDF}: 134592.6/66$

reg_asym_dsl_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.382 ± 0.092 $\chi^2/\text{NDF}: 14.0/15$

Left Out: 0.385 ± 0.105 $\chi^2/\text{NDF}: 29.9/15$

Right Out: 0.436 ± 0.090 $\chi^2/\text{NDF}: 29.0/17$

Left In: 0.196 ± 0.104 $\chi^2/\text{NDF}: 17.5/14$

Left: 0.290 ± 0.074 $\chi^2/\text{NDF}: 49.1/30$

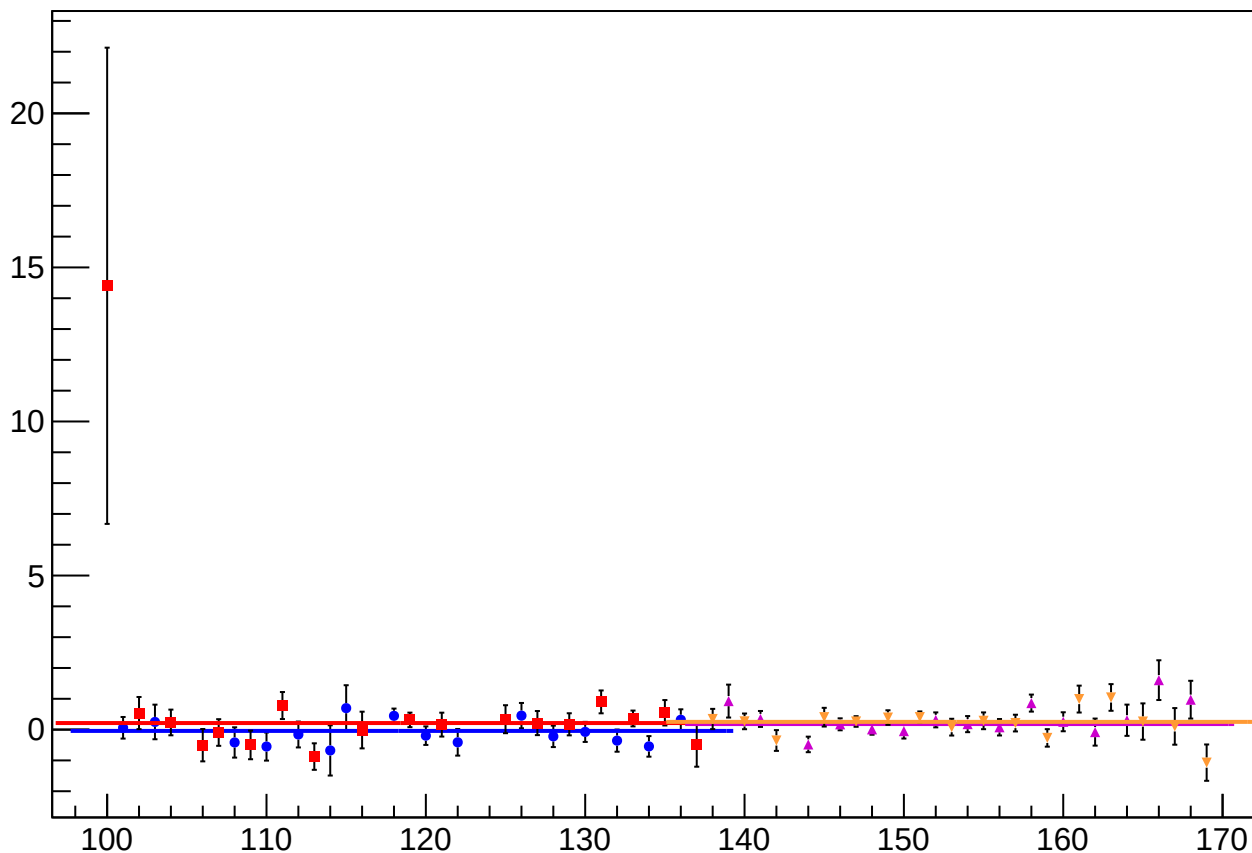
Right: 0.410 ± 0.064 $\chi^2/\text{NDF}: 43.2/33$

In: 0.300 ± 0.069 $\chi^2/\text{NDF}: 33.3/30$

Out: 0.414 ± 0.068 $\chi^2/\text{NDF}: 59.0/33$

All: 0.358 ± 0.049 $\chi^2/\text{NDF}: 93.7/64$

reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.043 ± 0.094 $\chi^2/\text{NDF}: 15.0/15$

Left Out: 0.251 ± 0.071 $\chi^2/\text{NDF}: 19.7/15$

Right Out: 0.213 ± 0.095 $\chi^2/\text{NDF}: 22.4/17$

Left In: 0.180 ± 0.072 $\chi^2/\text{NDF}: 24.7/14$

Left: 0.216 ± 0.051 $\chi^2/\text{NDF}: 44.9/30$

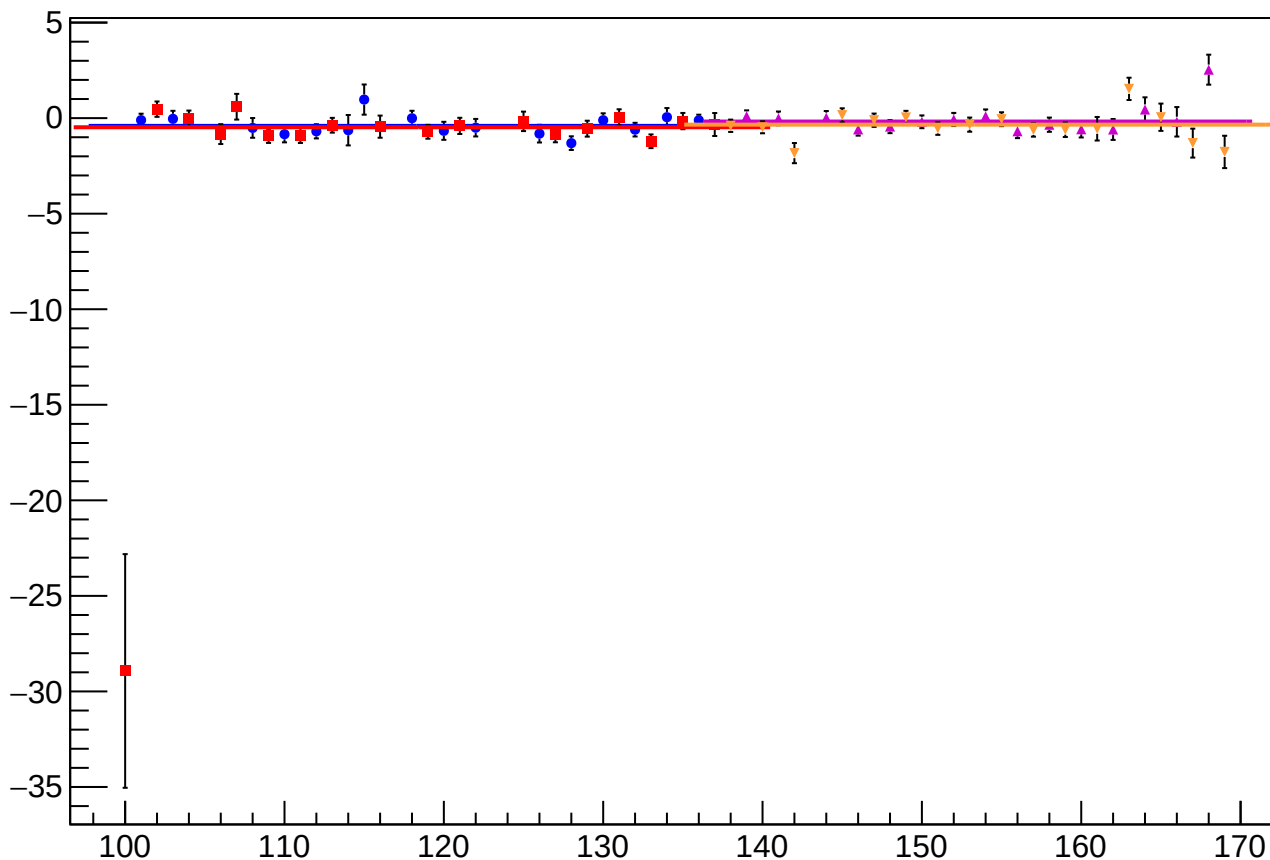
Right: 0.084 ± 0.067 $\chi^2/\text{NDF}: 41.1/33$

In: 0.098 ± 0.057 $\chi^2/\text{NDF}: 43.2/30$

Out: 0.237 ± 0.057 $\chi^2/\text{NDF}: 42.2/33$

All: 0.168 ± 0.040 $\chi^2/\text{NDF}: 88.4/64$

reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.406+/-0.103 χ^2/NDF : 17.8/15

Left Out: -0.340+/-0.102 χ^2/NDF : 29.0/15

Right Out: -0.478+/-0.104 χ^2/NDF : 42.3/17

Left In: -0.179+/-0.101 χ^2/NDF : 20.8/14

Left: -0.259+/-0.072 χ^2/NDF : 51.0/30

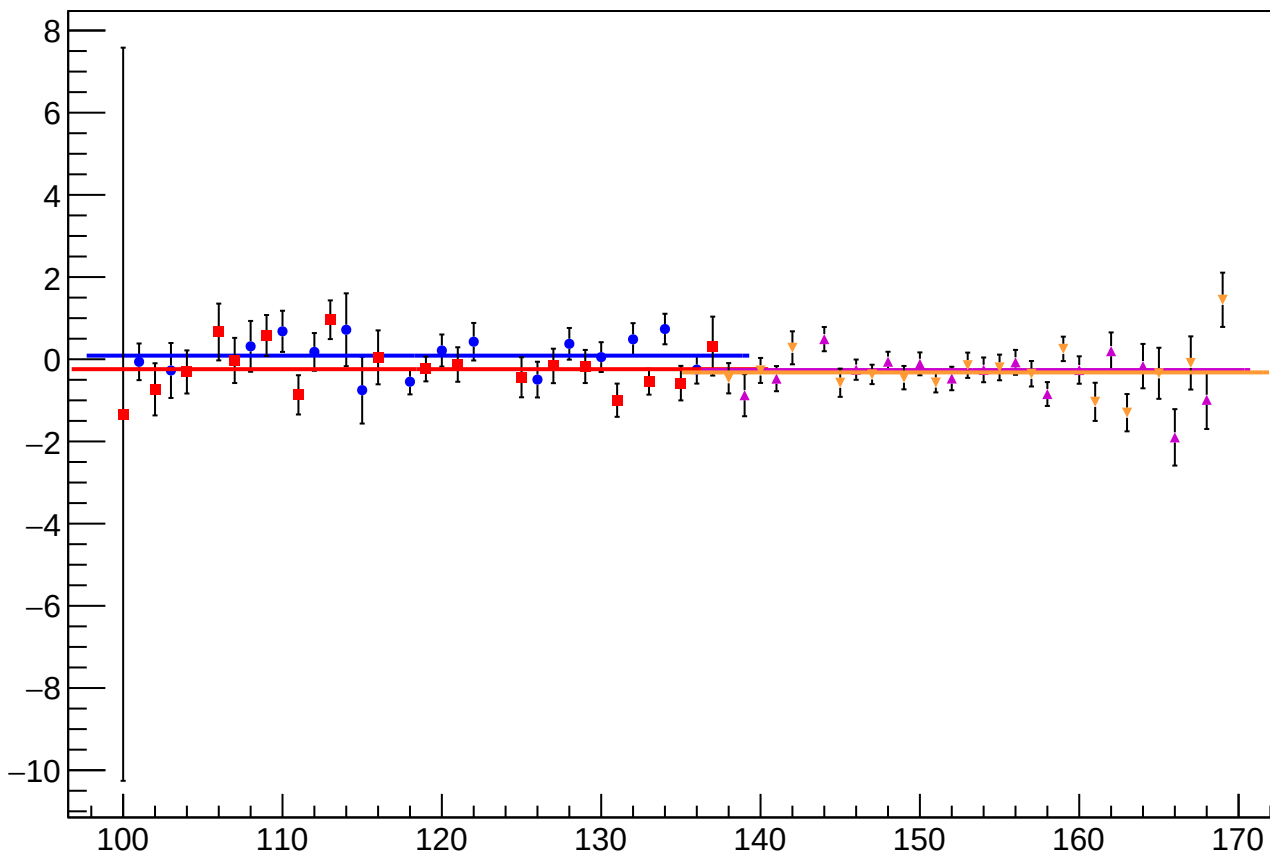
Right: -0.441+/-0.073 χ^2/NDF : 60.3/33

In: -0.289+/-0.072 χ^2/NDF : 41.0/30

Out: -0.407+/-0.073 χ^2/NDF : 72.1/33

All: -0.348+/-0.051 χ^2/NDF : 114.5/64

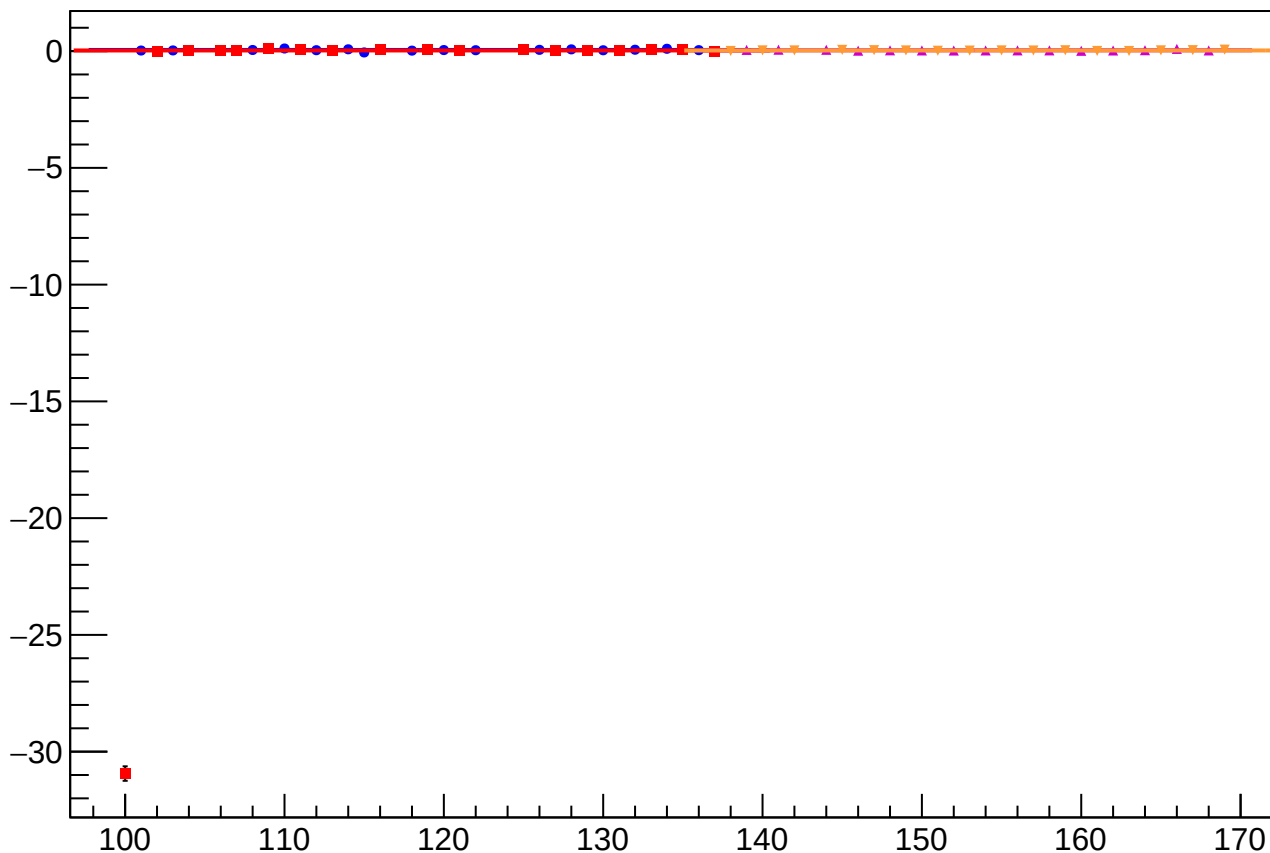
reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.088 ± 0.108 $\chi^2/\text{NDF}: 15.9/15$
 Left Out: -0.320 ± 0.085 $\chi^2/\text{NDF}: 22.7/15$
 Right Out: -0.241 ± 0.110 $\chi^2/\text{NDF}: 19.6/17$
 Left In: -0.263 ± 0.085 $\chi^2/\text{NDF}: 22.1/14$

Left: -0.291 ± 0.060 $\chi^2/\text{NDF}: 45.1/30$
 Right: -0.075 ± 0.077 $\chi^2/\text{NDF}: 40.0/33$
 In: -0.130 ± 0.067 $\chi^2/\text{NDF}: 44.5/30$
 Out: -0.291 ± 0.067 $\chi^2/\text{NDF}: 42.7/33$
 All: -0.210 ± 0.047 $\chi^2/\text{NDF}: 90.1/64$

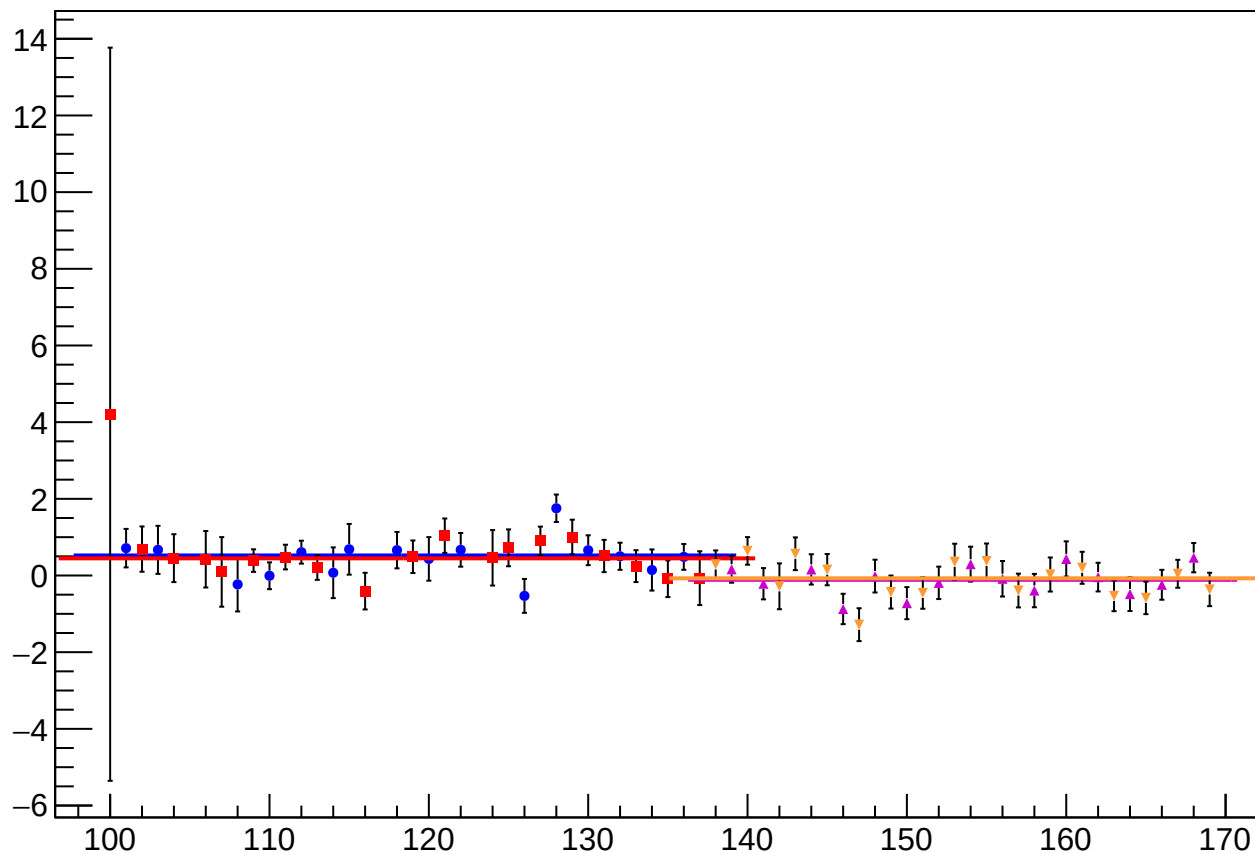
reg_asym_dsl_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.049 $\pm$ 0.006 χ^2 /NDF: 19.2/15
 Left Out: 0.028 $\pm$ 0.004 χ^2 /NDF:12.0/15
 Right Out: 0.028 $\pm$ 0.006 χ^2 /NDF: 10020.9/17
 Left In: 0.036 $\pm$ 0.004 χ^2 /NDF:15.9/14

Left: 0.032 $\pm$ 0.003 χ^2 /NDF: 30.1/30
 Right: 0.038 $\pm$ 0.004 χ^2 /NDF: 10045.5/33
 In: 0.039 $\pm$ 0.003 χ^2 /NDF:38.2/30
 Out: 0.028 $\pm$ 0.003 χ^2 /NDF:10032.9/33
 All: 0.034 $\pm$ 0.002 χ^2 /NDF: 10077.1/64

reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.522 ± 0.108 $\chi^2/\text{NDF}: 22.6/15$

Left Out: -0.073 ± 0.102 $\chi^2/\text{NDF}: 23.3/16$

Right Out: 0.448 ± 0.105 $\chi^2/\text{NDF}: 11.4/18$

Left In: -0.112 ± 0.106 $\chi^2/\text{NDF}: 12.8/14$

Left: -0.092 ± 0.073 $\chi^2/\text{NDF}: 36.1/31$

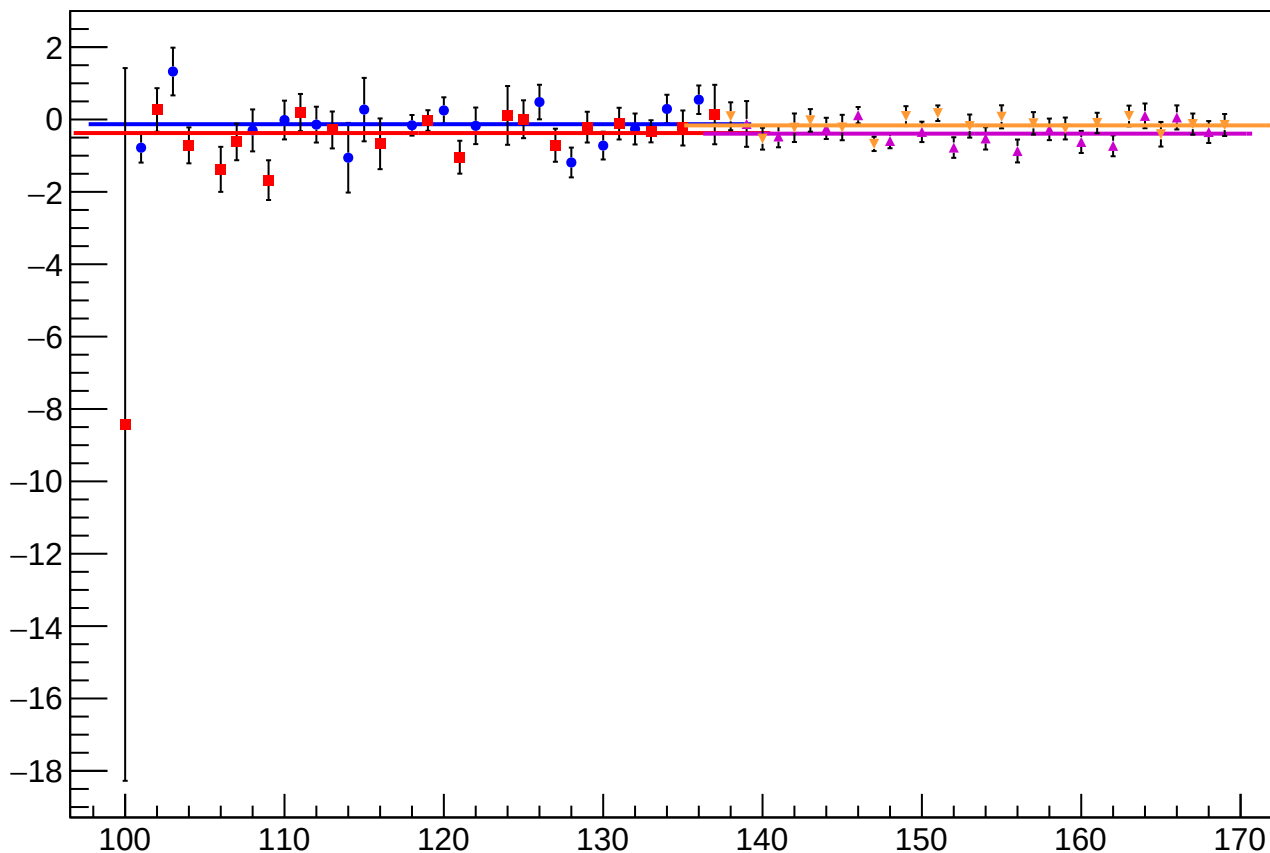
Right: 0.484 ± 0.075 $\chi^2/\text{NDF}: 34.3/34$

In: 0.198 ± 0.076 $\chi^2/\text{NDF}: 52.9/30$

Out: 0.179 ± 0.073 $\chi^2/\text{NDF}: 47.3/35$

All: 0.188 ± 0.053 $\chi^2/\text{NDF}: 100.2/66$

reg_asym_dsr_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.130 ± 0.112 χ^2/NDF : 24.6/15

Left Out: -0.163 ± 0.071 χ^2/NDF : 14.2/16

Right Out: -0.375 ± 0.111 χ^2/NDF : 18.2/18

Left In: -0.391 ± 0.075 χ^2/NDF : 17.0/14

Left: -0.271 ± 0.051 χ^2/NDF : 36.1/31

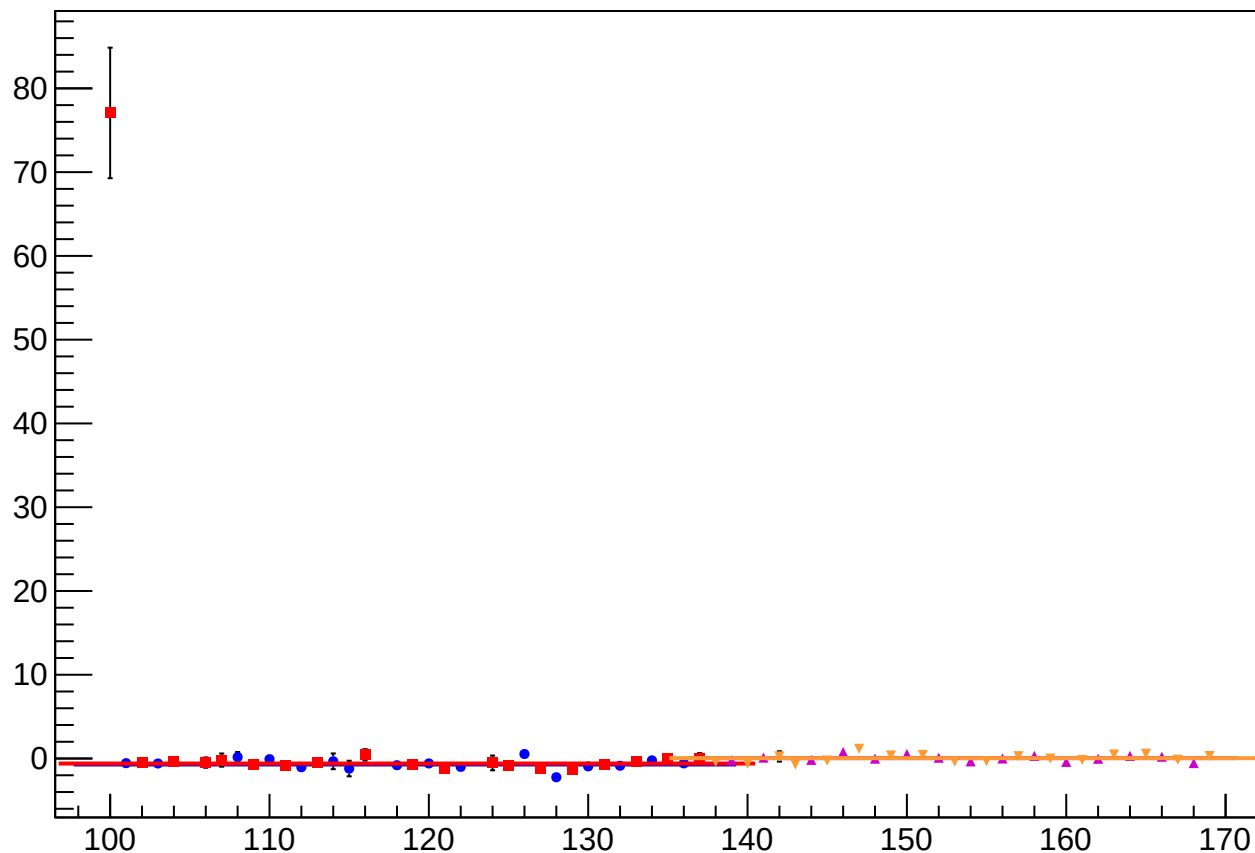
Right: -0.253 ± 0.079 χ^2/NDF : 45.2/34

In: -0.310 ± 0.062 χ^2/NDF : 45.3/30

Out: -0.224 ± 0.060 χ^2/NDF : 35.0/35

All: -0.265 ± 0.043 χ^2/NDF : 81.3/66

reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.713 ± 0.122 χ^2/NDF : 24.9/15

Left Out: 0.043 ± 0.100 χ^2/NDF : 23.2/16

Right Out: -0.597 ± 0.122 χ^2/NDF : 110.9/18

Left In: 0.050 ± 0.103 χ^2/NDF : 11.4/14

Left: 0.046 ± 0.072 χ^2/NDF : 34.6/31

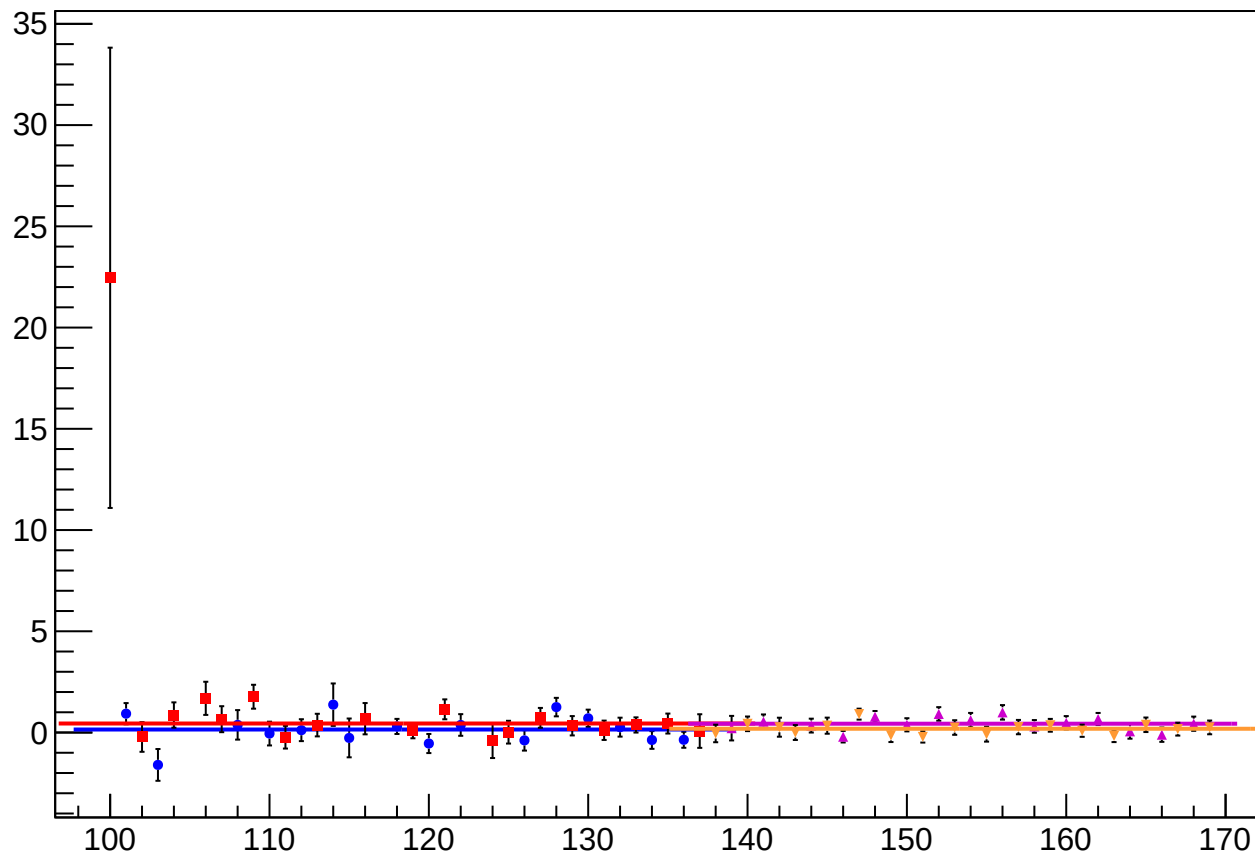
Right: -0.655 ± 0.086 χ^2/NDF : 136.3/34

In: -0.269 ± 0.079 χ^2/NDF : 59.1/30

Out: -0.214 ± 0.077 χ^2/NDF : 150.7/35

All: -0.241 ± 0.055 χ^2/NDF : 210.1/66

reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.148 $\pm$ 0.128 χ^2 /NDF: 23.3/15

Left Out: 0.185 $\pm$ 0.082 χ^2 /NDF:14.1/16

Right Out: 0.445 $\pm$ 0.128 χ^2 /NDF: 19.7/18

Left In: 0.435 $\pm$ 0.087 χ^2 /NDF:15.9/14

Left: 0.303 $\pm$ 0.060 χ^2 /NDF: 34.4/31

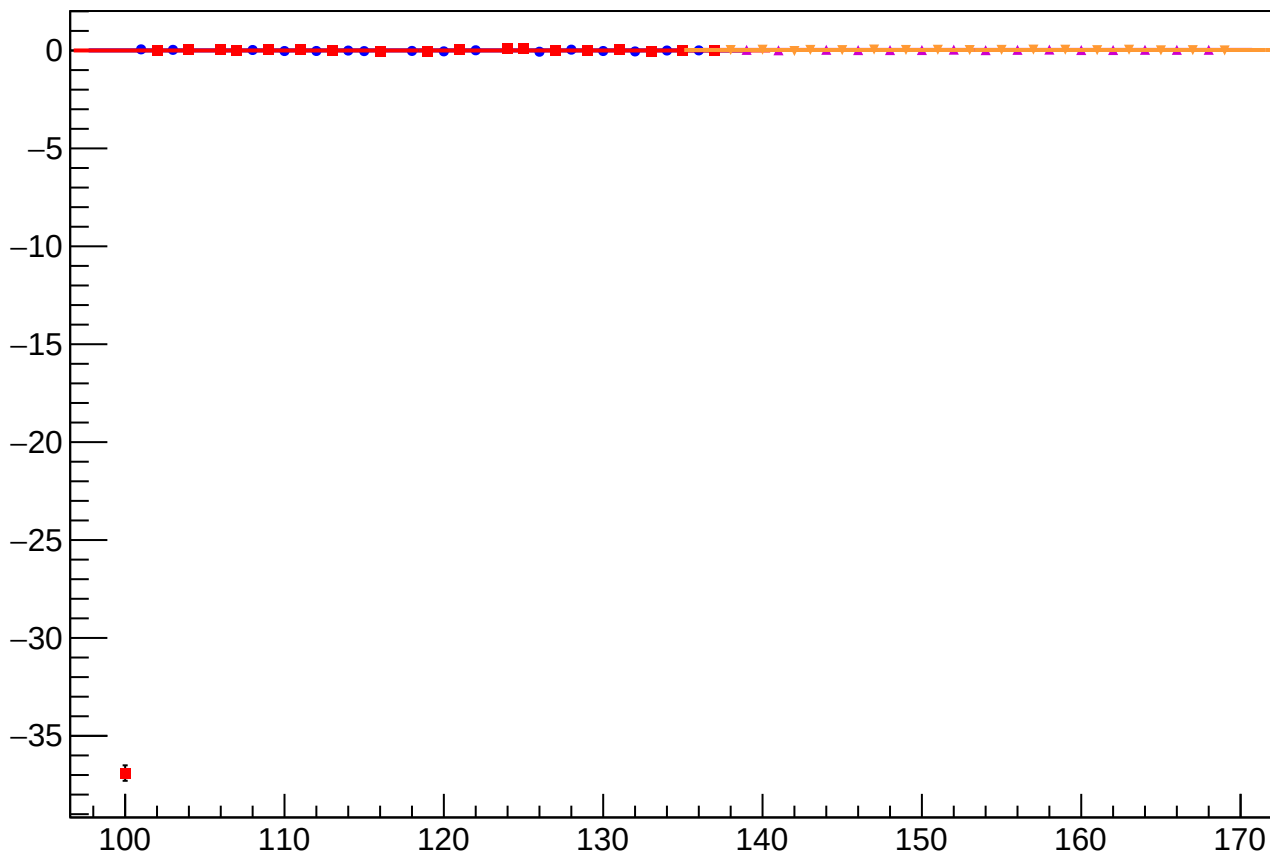
Right: 0.296 $\pm$ 0.090 χ^2 /NDF: 45.7/34

In: 0.344 $\pm$ 0.072 χ^2 /NDF:42.6/30

Out: 0.261 $\pm$ 0.069 χ^2 /NDF:36.8/35

All: 0.301 $\pm$ 0.050 χ^2 /NDF: 80.0/66

reg_asym_dsr_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.007 χ^2 /NDF: 17.6/15

Left Out: 0.026 $\pm$ 0.004 χ^2 /NDF:15.7/16

Right Out: 0.002 $\pm$ 0.007 χ^2 /NDF: 8753.3/18

Left In: 0.031 $\pm$ 0.004 χ^2 /NDF:5.8/14

Left: 0.029 $\pm$ 0.003 χ^2 /NDF: 22.4/31

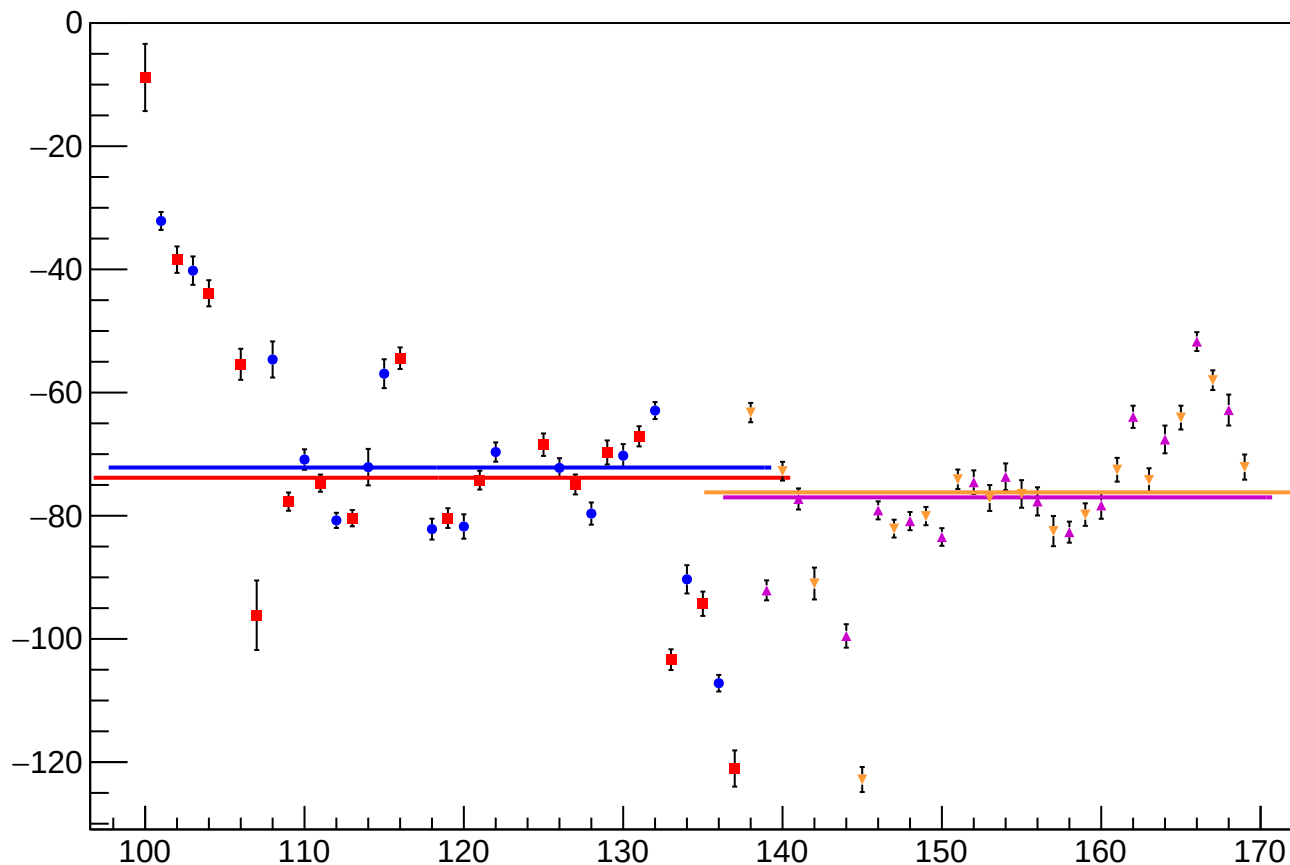
Right: 0.004 $\pm$ 0.005 χ^2 /NDF: 8771.0/34

In: 0.026 $\pm$ 0.003 χ^2 /NDF:32.4/30

Out: 0.021 $\pm$ 0.003 χ^2 /NDF:8777.2/35

All: 0.024 $\pm$ 0.002 χ^2 /NDF: 8810.5/66

reg_asym_us_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -72.173 ± 0.432 χ^2/NDF : 1936.0/15

Left Out: -76.204 ± 0.452 χ^2/NDF : 845.7/15

Right Out: -73.831 ± 0.431 χ^2/NDF : 1557.7/17

Left In: -77.016 ± 0.460 χ^2/NDF : 646.7/14

Left: -76.603 ± 0.322 χ^2/NDF : 1494.0/30

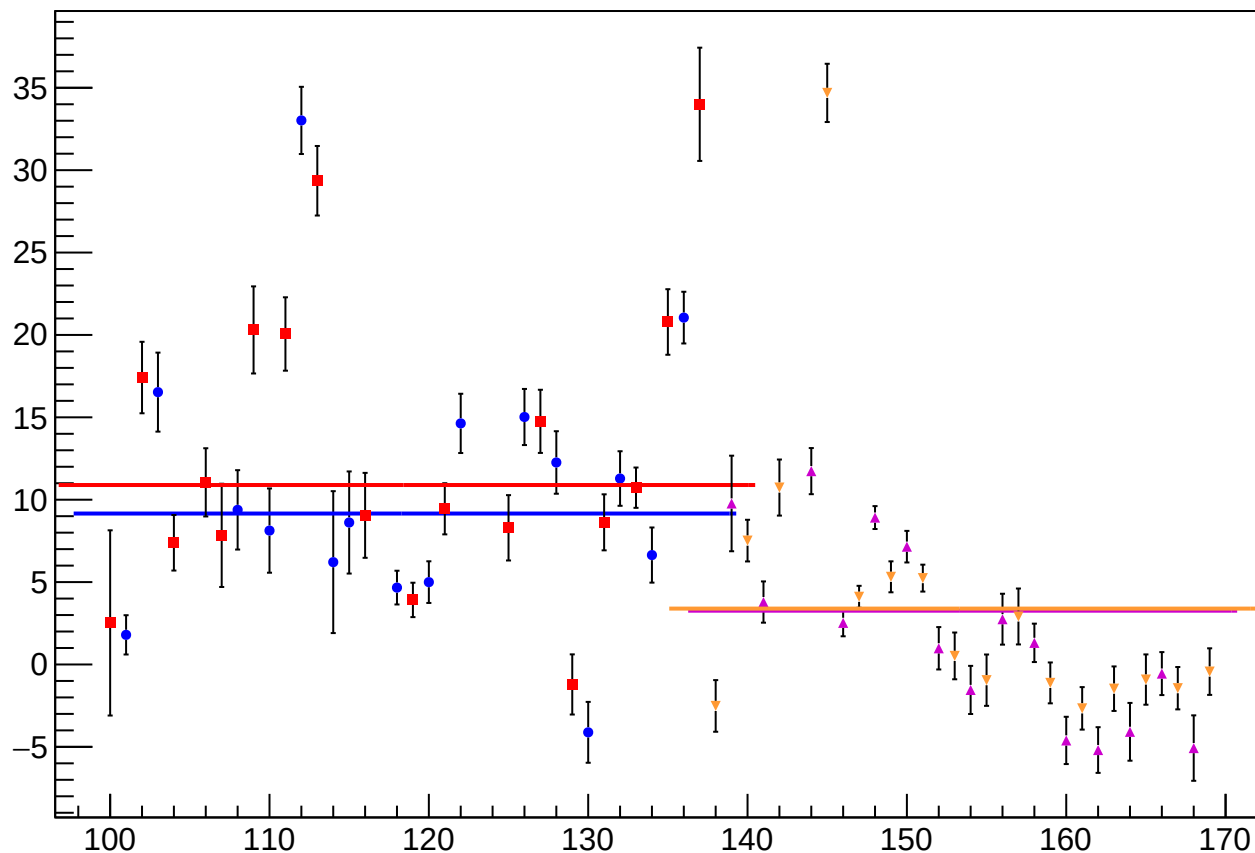
Right: -73.004 ± 0.305 χ^2/NDF : 3501.0/33

In: -74.445 ± 0.315 χ^2/NDF : 2641.7/30

Out: -74.960 ± 0.312 χ^2/NDF : 2417.8/33

All: -74.705 ± 0.221 χ^2/NDF : 5060.8/64

reg_asym_us_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.161 ± 0.425 $\chi^2/\text{NDF}: 352.1/15$

Left Out: 3.391 ± 0.299 $\chi^2/\text{NDF}: 457.1/15$

Right Out: 10.892 ± 0.440 $\chi^2/\text{NDF}: 290.2/17$

Left In: 3.265 ± 0.311 $\chi^2/\text{NDF}: 253.3/14$

Left: 3.331 ± 0.216 $\chi^2/\text{NDF}: 710.4/30$

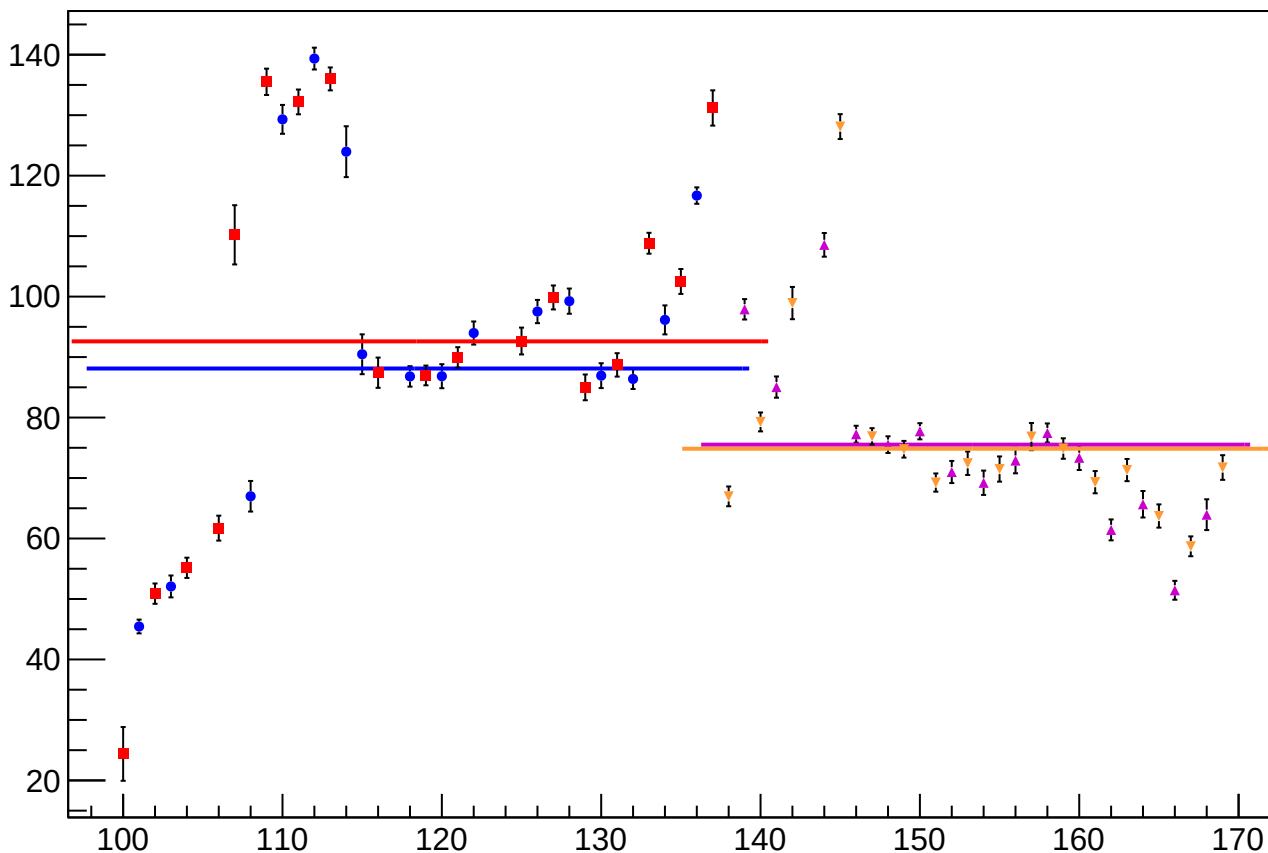
Right: 9.996 ± 0.306 $\chi^2/\text{NDF}: 650.3/33$

In: 5.321 ± 0.251 $\chi^2/\text{NDF}: 730.7/30$

Out: 5.761 ± 0.247 $\chi^2/\text{NDF}: 945.9/33$

All: 5.544 ± 0.176 $\chi^2/\text{NDF}: 1678.2/64$

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 88.109 $\pm$ 0.469 χ^2 /NDF: 3561.7/15

Left Out: 74.849 $\pm$ 0.439 χ^2 /NDF: 948.6/15

Right Out: 92.596 $\pm$ 0.483 χ^2 /NDF: 3211.0/17

Left In: 75.519 $\pm$ 0.445 χ^2 /NDF: 859.7/14

Left: 75.180 $\pm$ 0.312 χ^2 /NDF: 1809.4/30

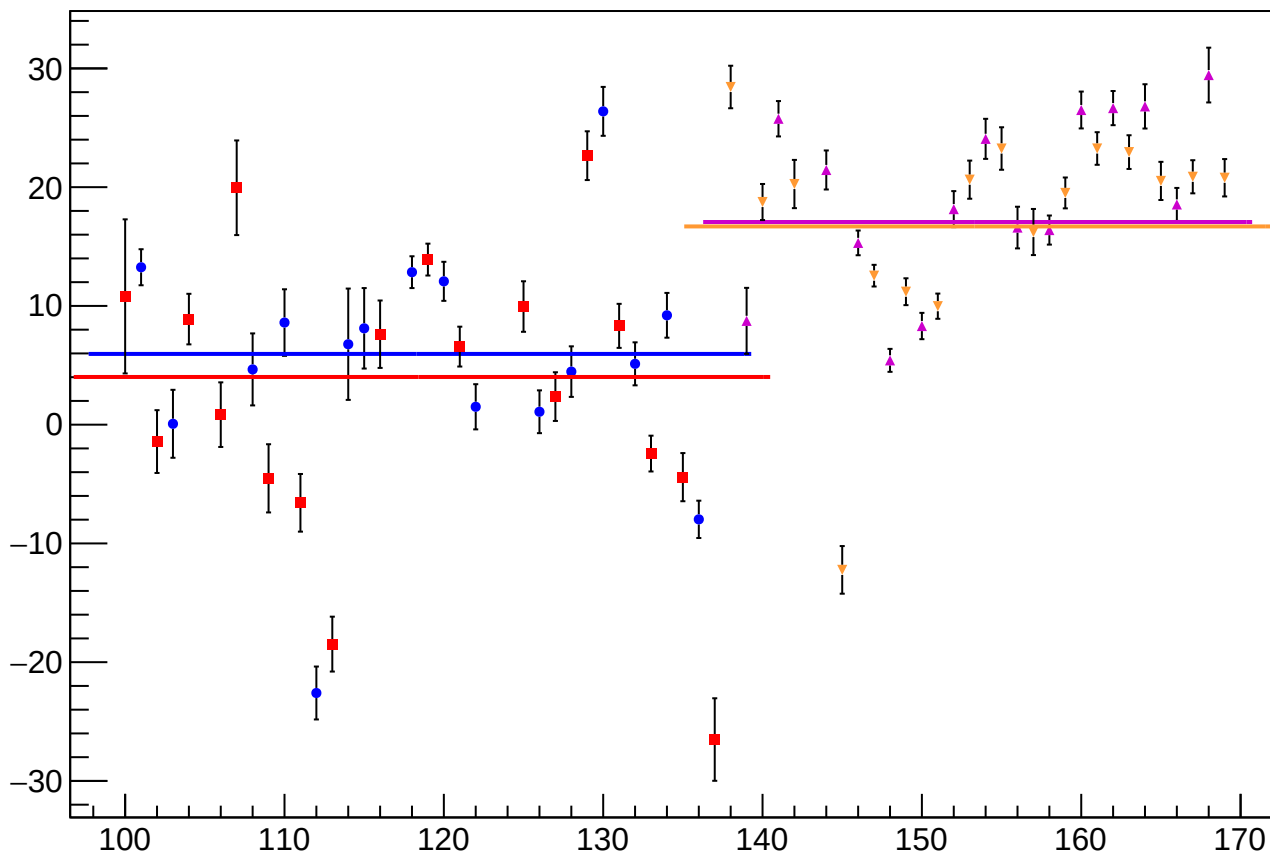
Right: 90.284 $\pm$ 0.336 χ^2 /NDF: 6817.1/33

In: 81.485 $\pm$ 0.323 χ^2 /NDF: 4801.2/30

Out: 82.873 $\pm$ 0.325 χ^2 /NDF: 4898.8/33

All: 82.174 $\pm$ 0.229 χ^2 /NDF: 9709.2/64

reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.958 ± 0.495 $\chi^2/\text{NDF}: 426.8/15$

Left Out: 16.693 ± 0.354 $\chi^2/\text{NDF}: 428.0/15$

Right Out: 4.017 ± 0.510 $\chi^2/\text{NDF}: 417.7/17$

Left In: 17.066 ± 0.367 $\chi^2/\text{NDF}: 417.5/14$

Left: 16.873 ± 0.255 $\chi^2/\text{NDF}: 846.1/30$

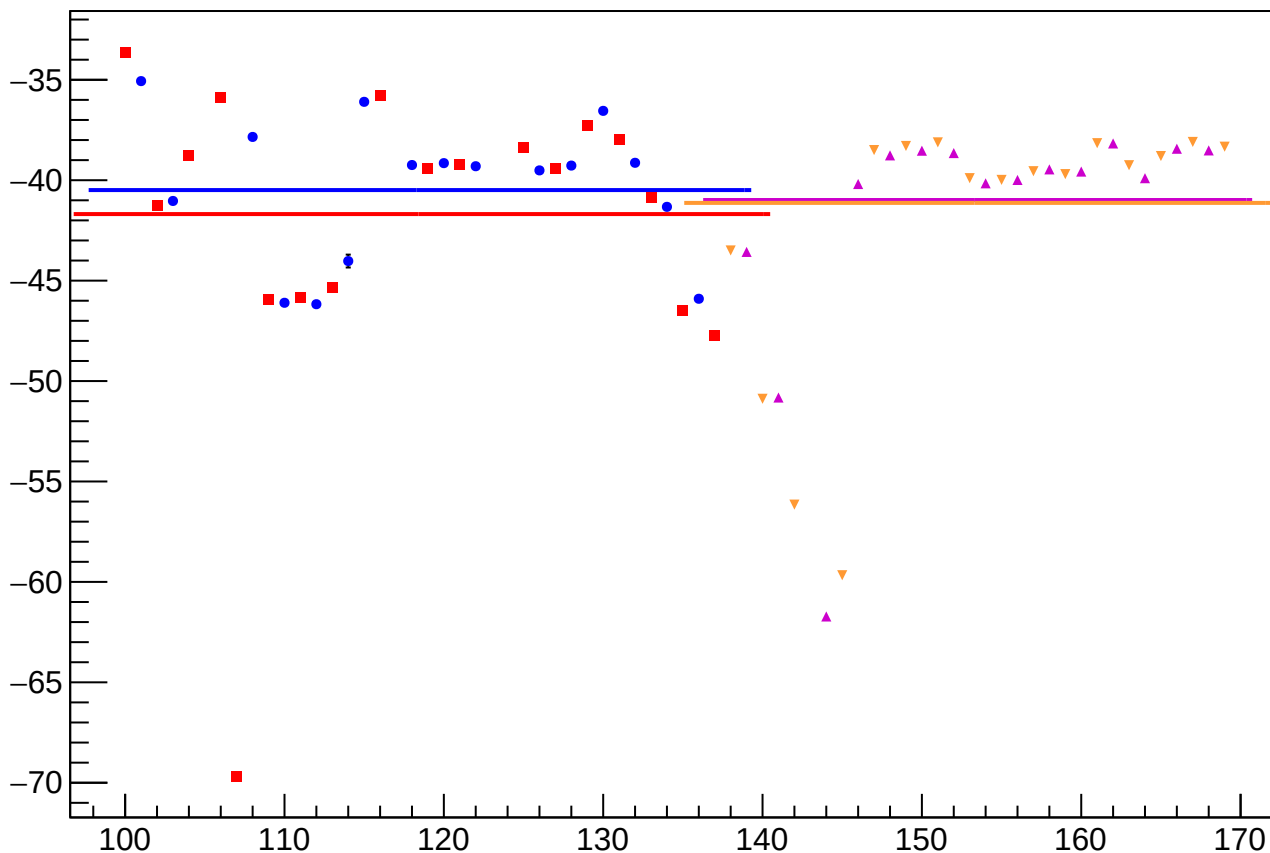
Right: 5.016 ± 0.355 $\chi^2/\text{NDF}: 851.9/33$

In: 13.124 ± 0.295 $\chi^2/\text{NDF}: 1169.5/30$

Out: 12.573 ± 0.291 $\chi^2/\text{NDF}: 1263.4/33$

All: 12.844 ± 0.207 $\chi^2/\text{NDF}: 2434.7/64$

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -40.491 $\pm$ 0.028 χ^2 /NDF: 18125.4/15

Left Out: -41.129 $\pm$ 0.017 χ^2 /NDF:108256.9/15

Right Out: -41.686 $\pm$ 0.029 χ^2 /NDF: 36838.6/17

Left In: -40.986 $\pm$ 0.017 χ^2 /NDF:87276.6/14

Left: -41.058 $\pm$ 0.012 χ^2 /NDF: 195569.8/30

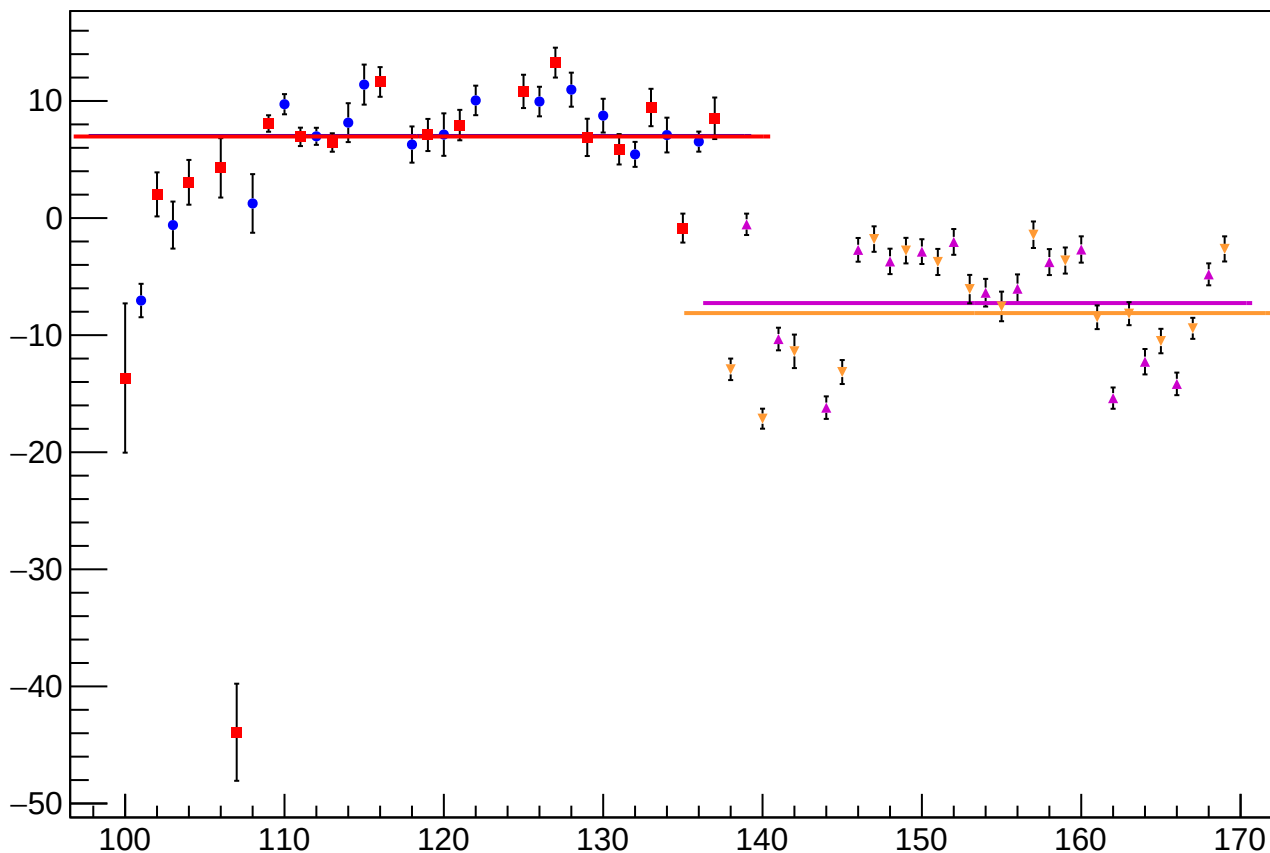
Right: -41.069 $\pm$ 0.020 χ^2 /NDF: 55825.2/33

In: -40.856 $\pm$ 0.015 χ^2 /NDF:105627.1/30

Out: -41.266 $\pm$ 0.015 χ^2 /NDF:145368.2/33

All: -41.061 $\pm$ 0.010 χ^2 /NDF: 251395.3/64

reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 7.011 ± 0.309 χ^2/NDF : 156.3/15

Left Out: -8.115 ± 0.263 χ^2/NDF : 328.8/15

Right Out: 6.967 ± 0.298 χ^2/NDF : 266.0/17

Left In: -7.260 ± 0.266 χ^2/NDF : 408.4/14

Left: -7.691 ± 0.187 χ^2/NDF : 742.4/30

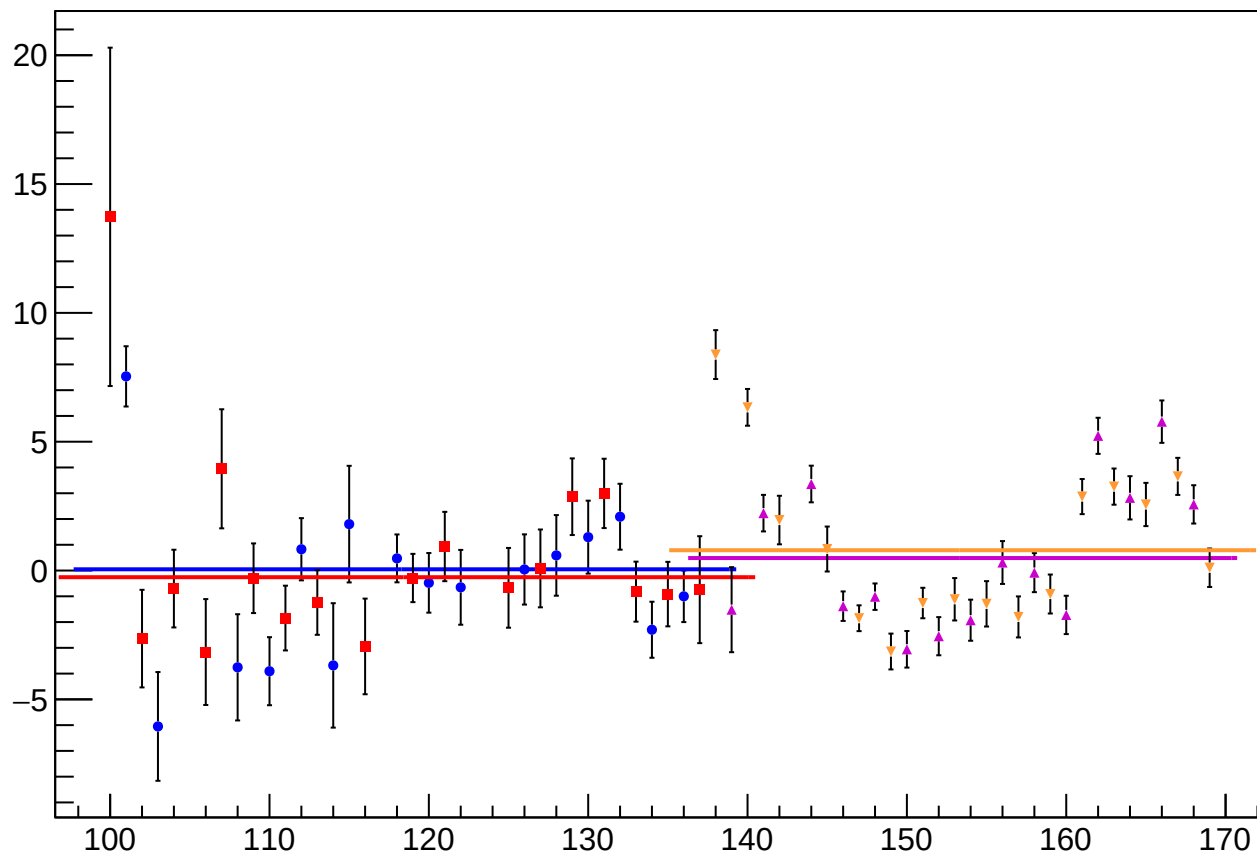
Right: 6.988 ± 0.215 χ^2/NDF : 422.3/33

In: -1.196 ± 0.202 χ^2/NDF : 1789.4/30

Out: -1.504 ± 0.197 χ^2/NDF : 2031.7/33

All: -1.353 ± 0.141 χ^2/NDF : 3822.3/64

reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.048 ± 0.331 $\chi^2/\text{NDF}: 75.0/15$

Left Out: 0.788 ± 0.183 $\chi^2/\text{NDF}: 267.2/15$

Right Out: -0.259 ± 0.344 $\chi^2/\text{NDF}: 27.5/17$

Left In: 0.485 ± 0.188 $\chi^2/\text{NDF}: 206.1/14$

Left: 0.641 ± 0.131 $\chi^2/\text{NDF}: 474.7/30$

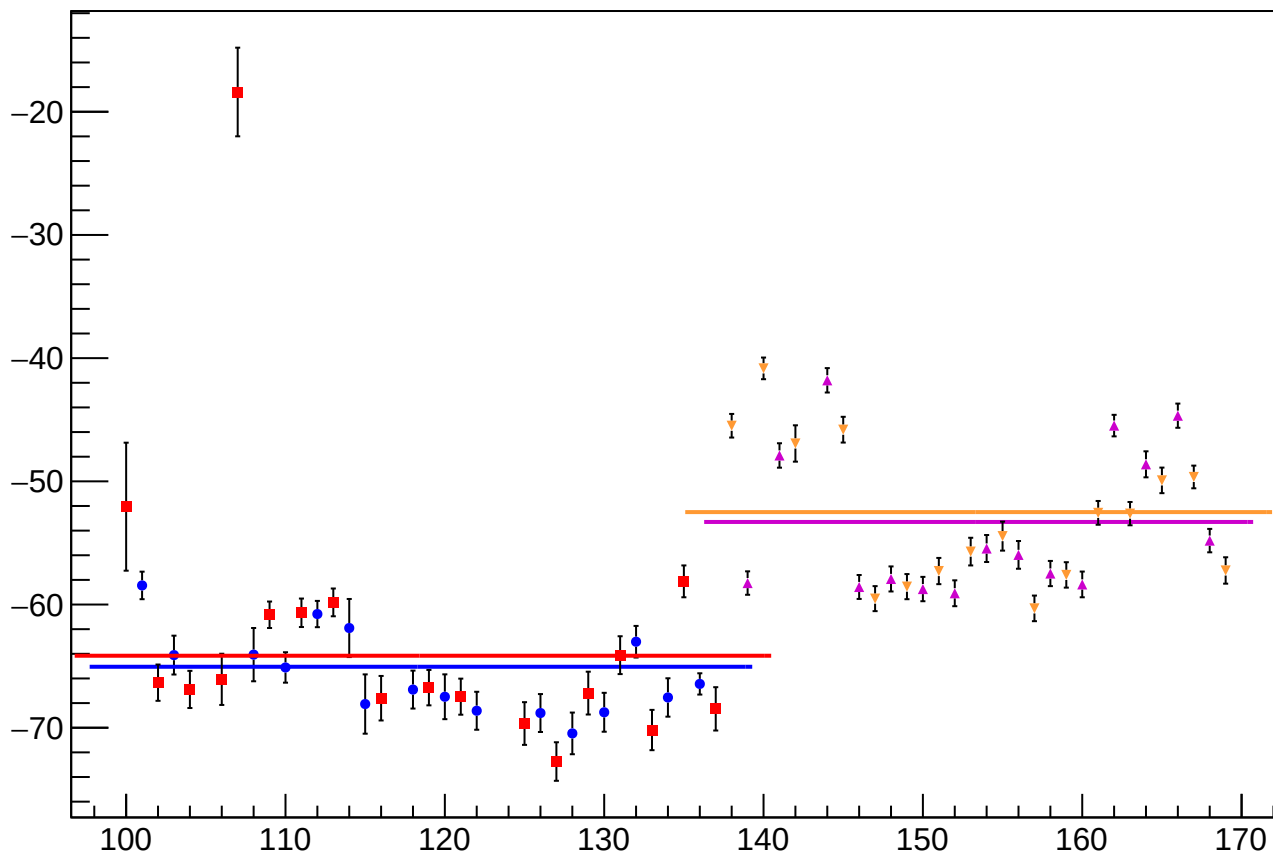
Right: -0.099 ± 0.239 $\chi^2/\text{NDF}: 102.9/33$

In: 0.379 ± 0.164 $\chi^2/\text{NDF}: 282.4/30$

Out: 0.558 ± 0.162 $\chi^2/\text{NDF}: 302.0/33$

All: 0.469 ± 0.115 $\chi^2/\text{NDF}: 585.0/64$

reg_asym_us_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -65.051 ± 0.354 χ^2/NDF : 92.8/15

Left Out: -52.496 ± 0.257 χ^2/NDF : 515.2/15

Right Out: -64.156 ± 0.360 χ^2/NDF : 303.7/17

Left In: -53.297 ± 0.259 χ^2/NDF : 531.8/14

Left: -52.894 ± 0.182 χ^2/NDF : 1051.8/30

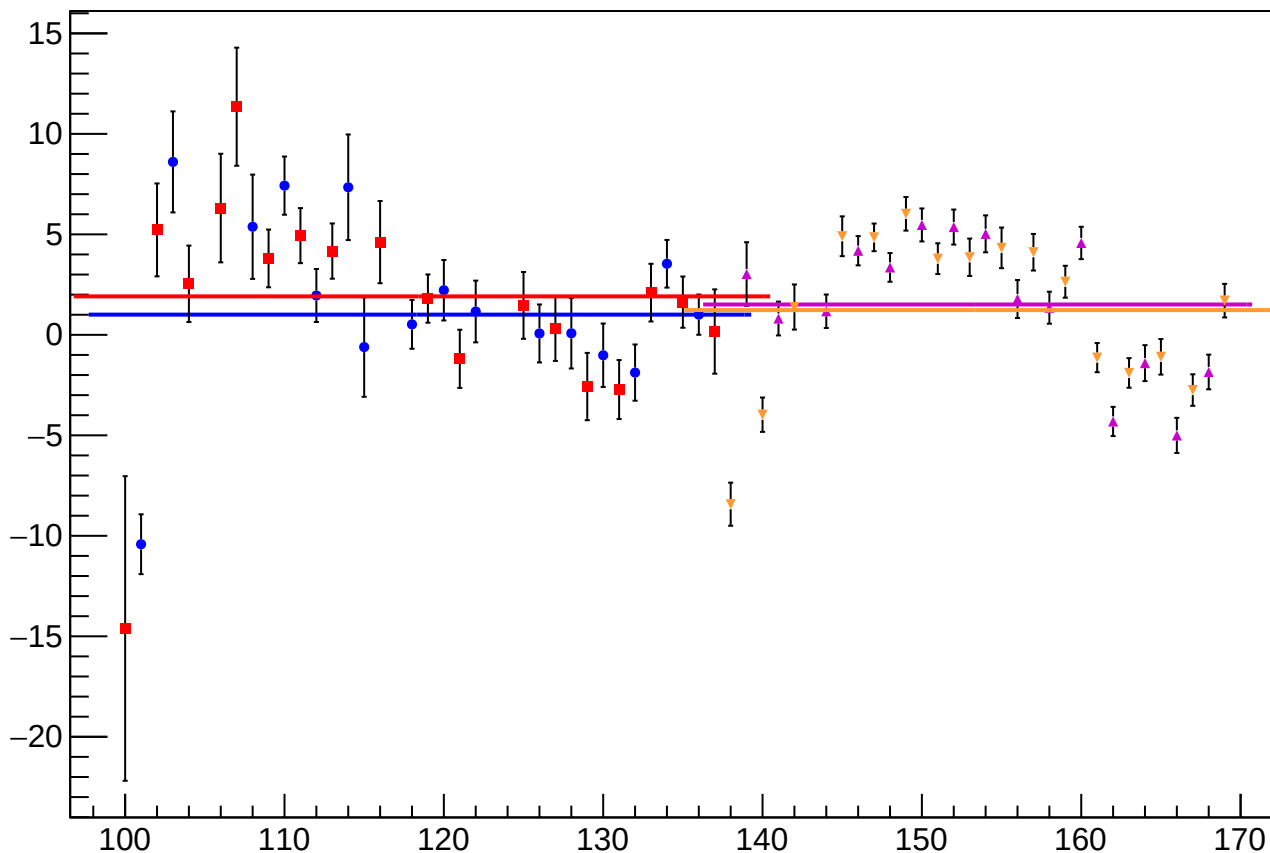
Right: -64.611 ± 0.253 χ^2/NDF : 399.6/33

In: -57.389 ± 0.209 χ^2/NDF : 1343.2/30

Out: -56.429 ± 0.209 χ^2/NDF : 1512.3/33

All: -56.910 ± 0.148 χ^2/NDF : 2866.1/64

reg_asym_us_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.006 ± 0.376 χ^2/NDF : 109.2/15

Left Out: 1.231 ± 0.212 χ^2/NDF : 295.8/15

Right Out: 1.914 ± 0.390 χ^2/NDF : 54.5/17

Left In: 1.511 ± 0.218 χ^2/NDF : 239.1/14

Left: 1.367 ± 0.152 χ^2/NDF : 535.8/30

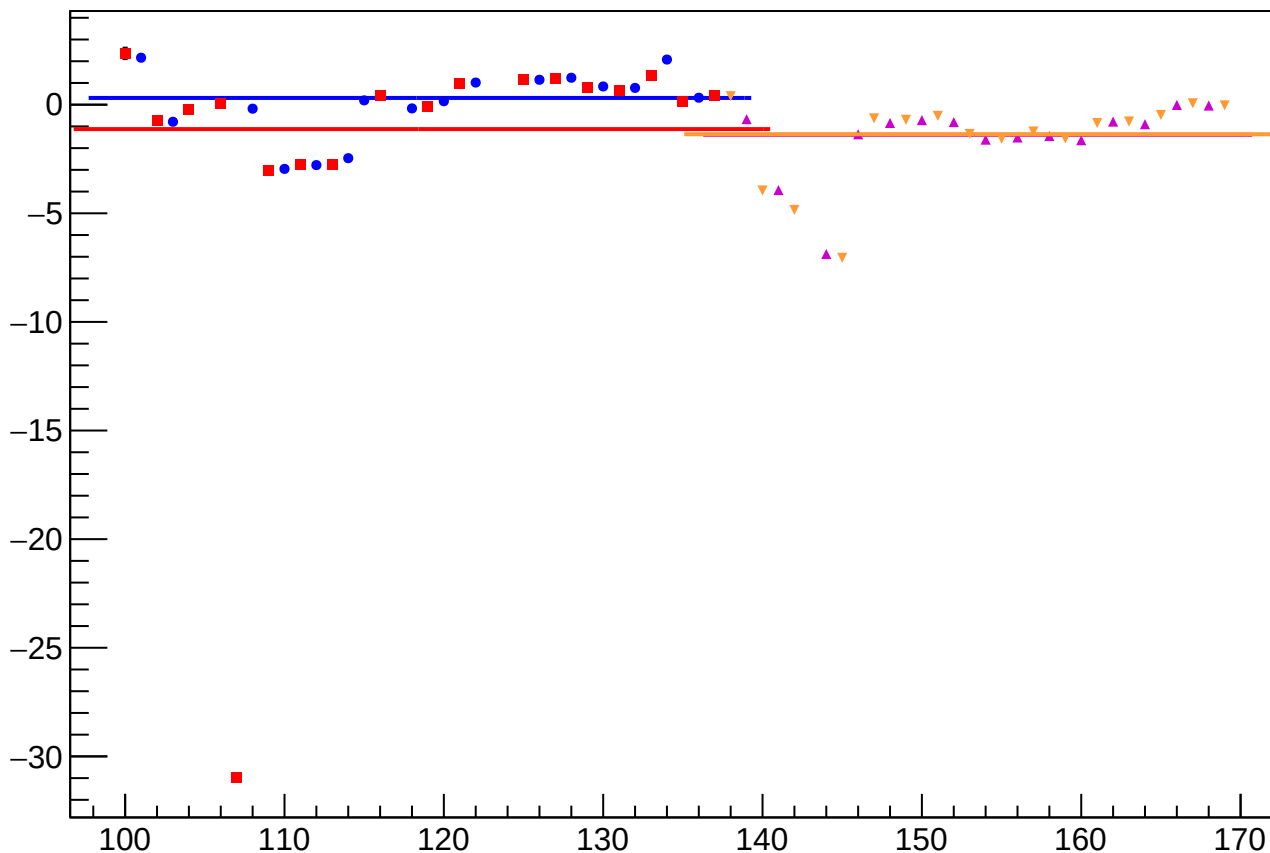
Right: 1.443 ± 0.270 χ^2/NDF : 166.5/33

In: 1.384 ± 0.188 χ^2/NDF : 349.7/30

Out: 1.387 ± 0.186 χ^2/NDF : 352.7/33

All: 1.385 ± 0.132 χ^2/NDF : 702.4/64

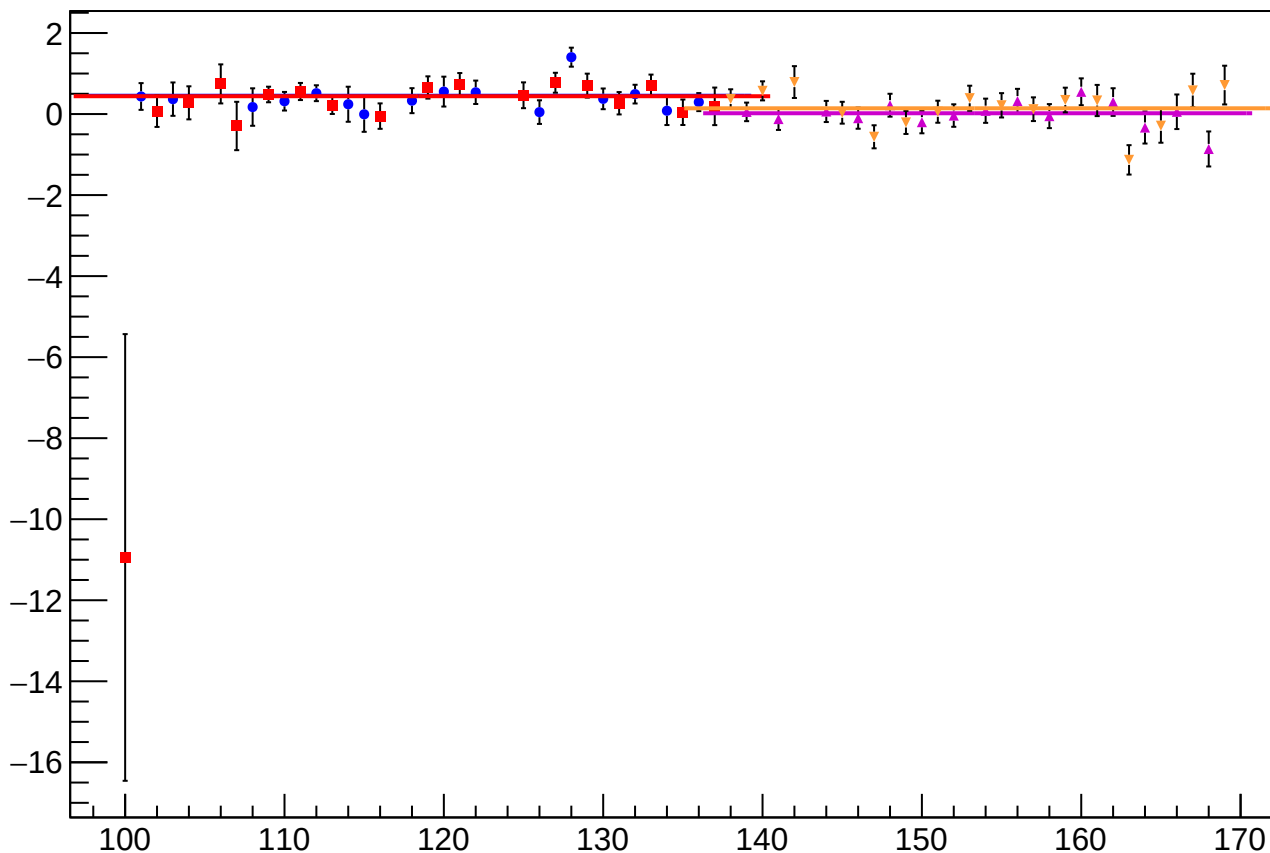
reg_asym_us_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.310 ± 0.021 $\chi^2/\text{NDF}: 4848.4/15$
 Left Out: -1.361 ± 0.010 $\chi^2/\text{NDF}: 33972.8/15$
 Right Out: -1.124 ± 0.022 $\chi^2/\text{NDF}: 46347.9/17$
 Left In: -1.386 ± 0.010 $\chi^2/\text{NDF}: 23976.7/14$

Left: -1.373 ± 0.007 $\chi^2/\text{NDF}: 57953.0/30$
 Right: -0.369 ± 0.015 $\chi^2/\text{NDF}: 53391.3/33$
 In: -1.090 ± 0.009 $\chi^2/\text{NDF}: 34180.7/30$
 Out: -1.323 ± 0.009 $\chi^2/\text{NDF}: 80416.4/33$
 All: -1.206 ± 0.006 $\chi^2/\text{NDF}: 114946.1/64$

reg_asym_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.452 ± 0.071 $\chi^2/\text{NDF}: 22.6/15$

Left Out: 0.142 ± 0.077 $\chi^2/\text{NDF}: 32.2/15$

Right Out: 0.440 ± 0.070 $\chi^2/\text{NDF}: 18.5/17$

Left In: 0.020 ± 0.077 $\chi^2/\text{NDF}: 11.0/14$

Left: 0.081 ± 0.054 $\chi^2/\text{NDF}: 44.5/30$

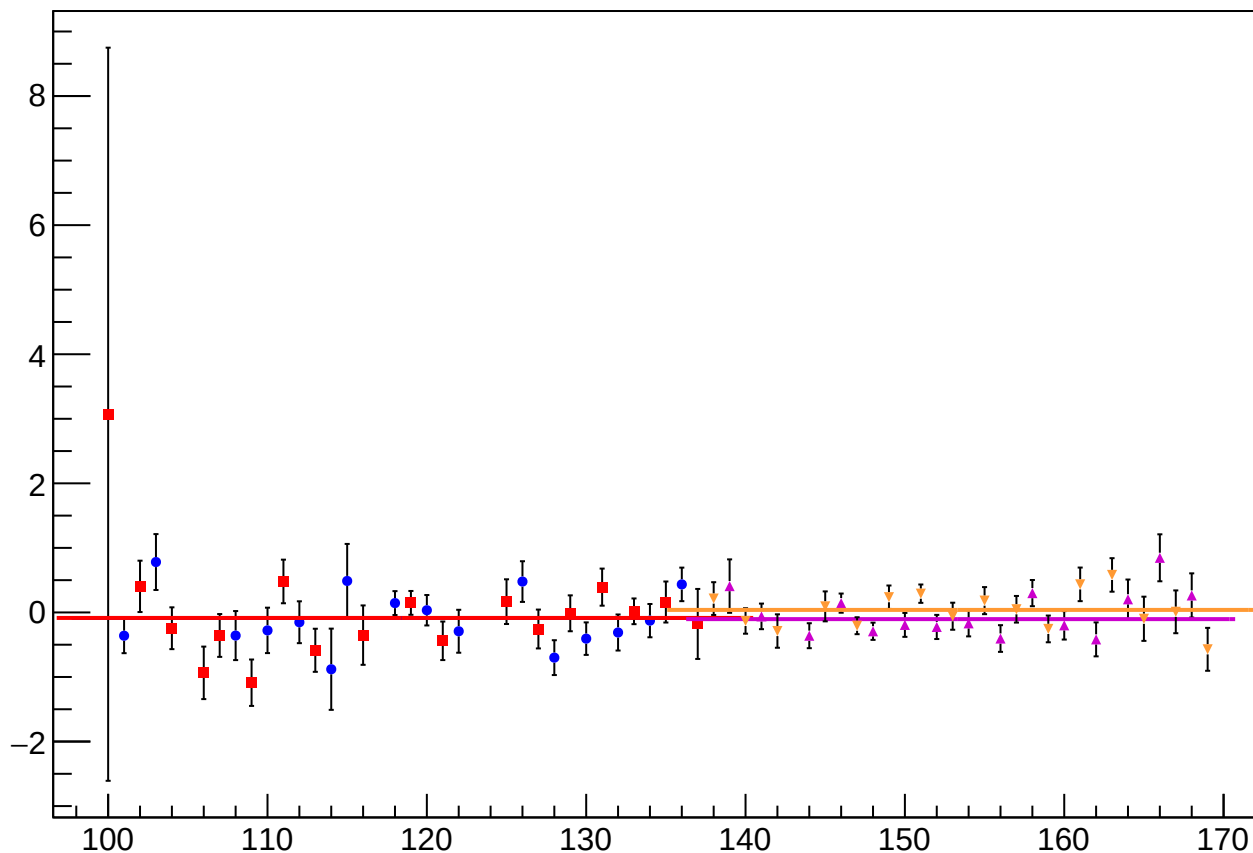
Right: 0.446 ± 0.050 $\chi^2/\text{NDF}: 41.2/33$

In: 0.252 ± 0.052 $\chi^2/\text{NDF}: 50.6/30$

Out: 0.306 ± 0.052 $\chi^2/\text{NDF}: 59.0/33$

All: 0.279 ± 0.037 $\chi^2/\text{NDF}: 110.2/64$

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.086 ± 0.073 $\chi^2/\text{NDF}: 25.4/15$

Left Out: 0.039 ± 0.053 $\chi^2/\text{NDF}: 23.6/15$

Right Out: -0.085 ± 0.074 $\chi^2/\text{NDF}: 27.9/17$

Left In: -0.104 ± 0.053 $\chi^2/\text{NDF}: 25.5/14$

Left: -0.031 ± 0.037 $\chi^2/\text{NDF}: 52.7/30$

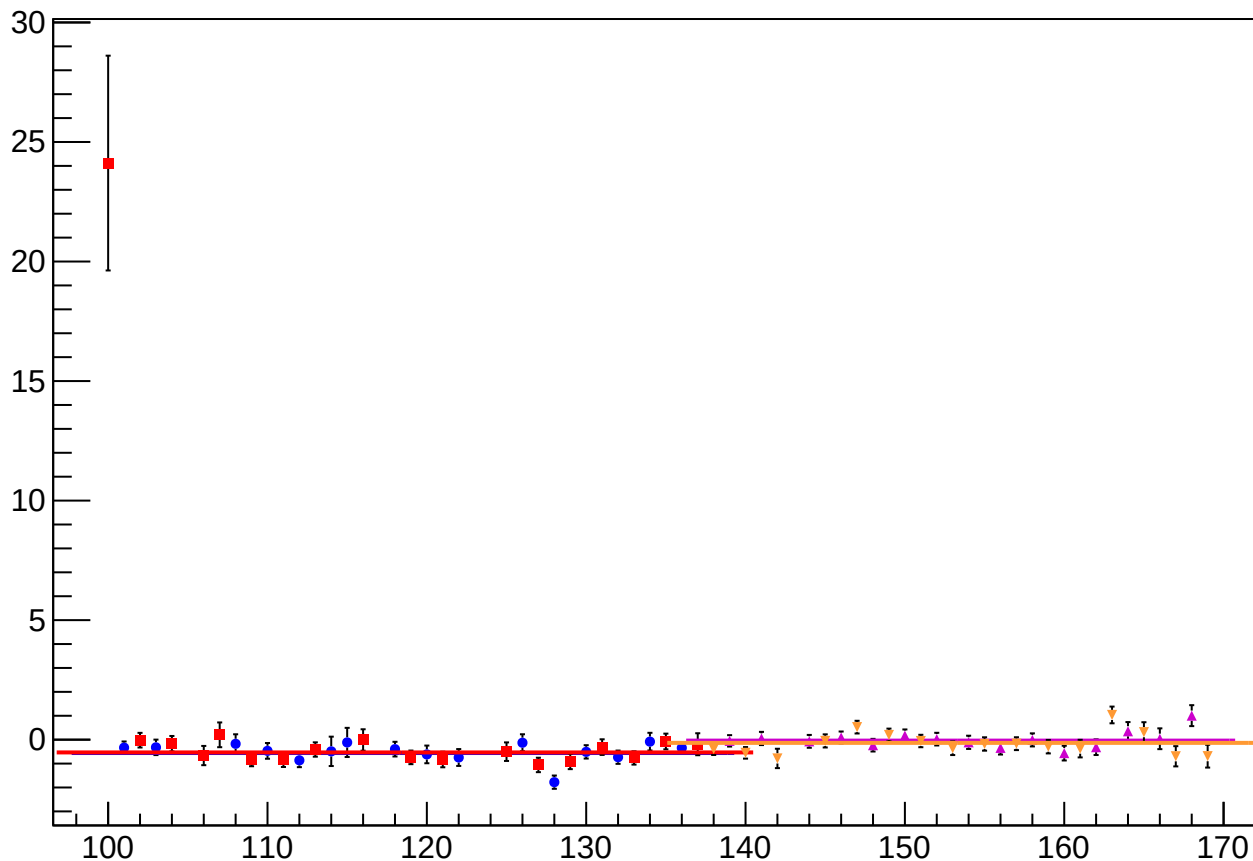
Right: -0.086 ± 0.052 $\chi^2/\text{NDF}: 53.3/33$

In: -0.098 ± 0.043 $\chi^2/\text{NDF}: 50.9/30$

Out: -0.003 ± 0.043 $\chi^2/\text{NDF}: 53.4/33$

All: -0.050 ± 0.030 $\chi^2/\text{NDF}: 106.7/64$

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.558 ± 0.080 χ^2/NDF : 28.3/15

Left Out: -0.134 ± 0.075 χ^2/NDF : 31.3/15

Right Out: -0.534 ± 0.081 χ^2/NDF : 49.2/17

Left In: -0.039 ± 0.074 χ^2/NDF : 13.2/14

Left: -0.086 ± 0.053 χ^2/NDF : 45.4/30

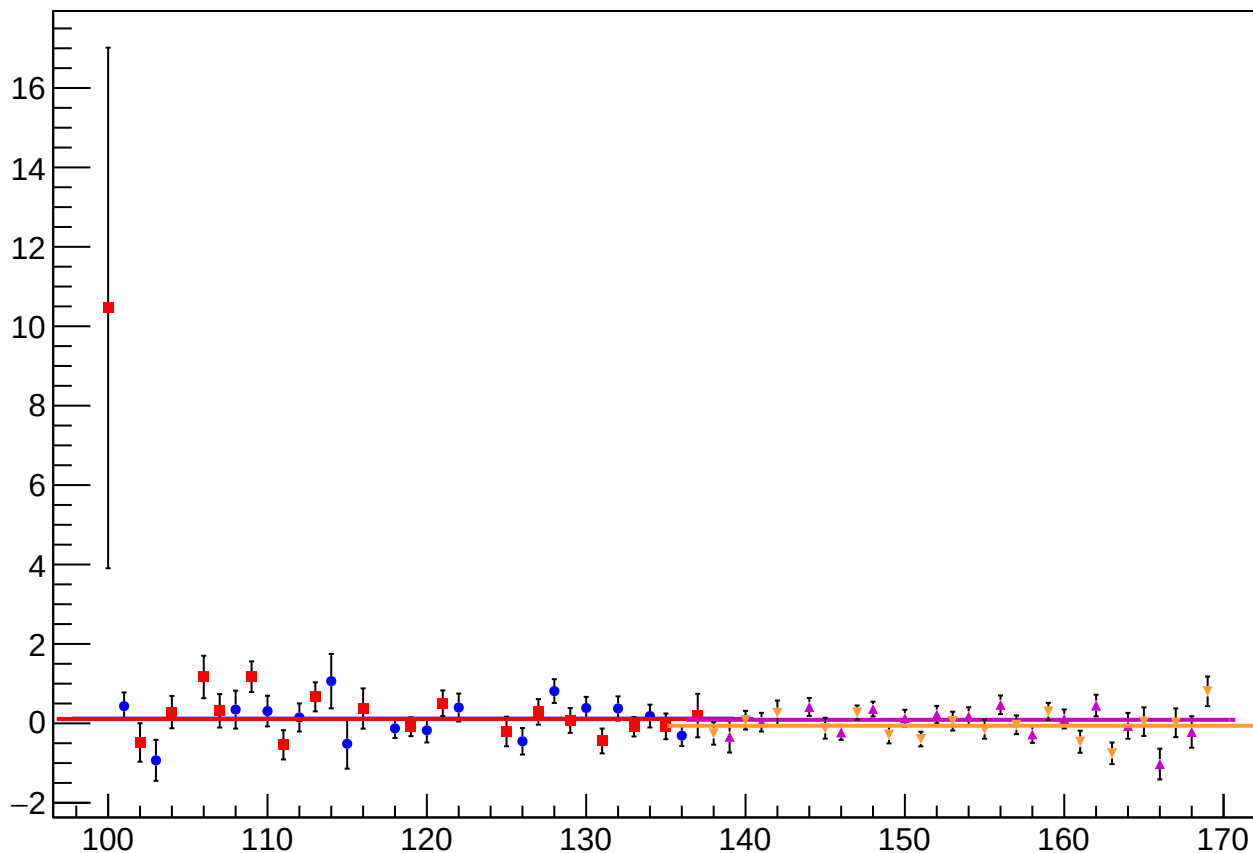
Right: -0.546 ± 0.057 χ^2/NDF : 77.6/33

In: -0.281 ± 0.054 χ^2/NDF : 64.2/30

Out: -0.319 ± 0.055 χ^2/NDF : 93.7/33

All: -0.300 ± 0.039 χ^2/NDF : 158.2/64

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.118 $\pm$ 0.084 χ^2 /NDF: 23.6/15

Left Out: -0.060 $\pm$ 0.062 χ^2 /NDF:27.0/15

Right Out: 0.111 $\pm$ 0.085 χ^2 /NDF: 29.0/17

Left In: 0.089 $\pm$ 0.063 χ^2 /NDF:25.1/14

Left: 0.014 $\pm$ 0.044 χ^2 /NDF: 55.0/30

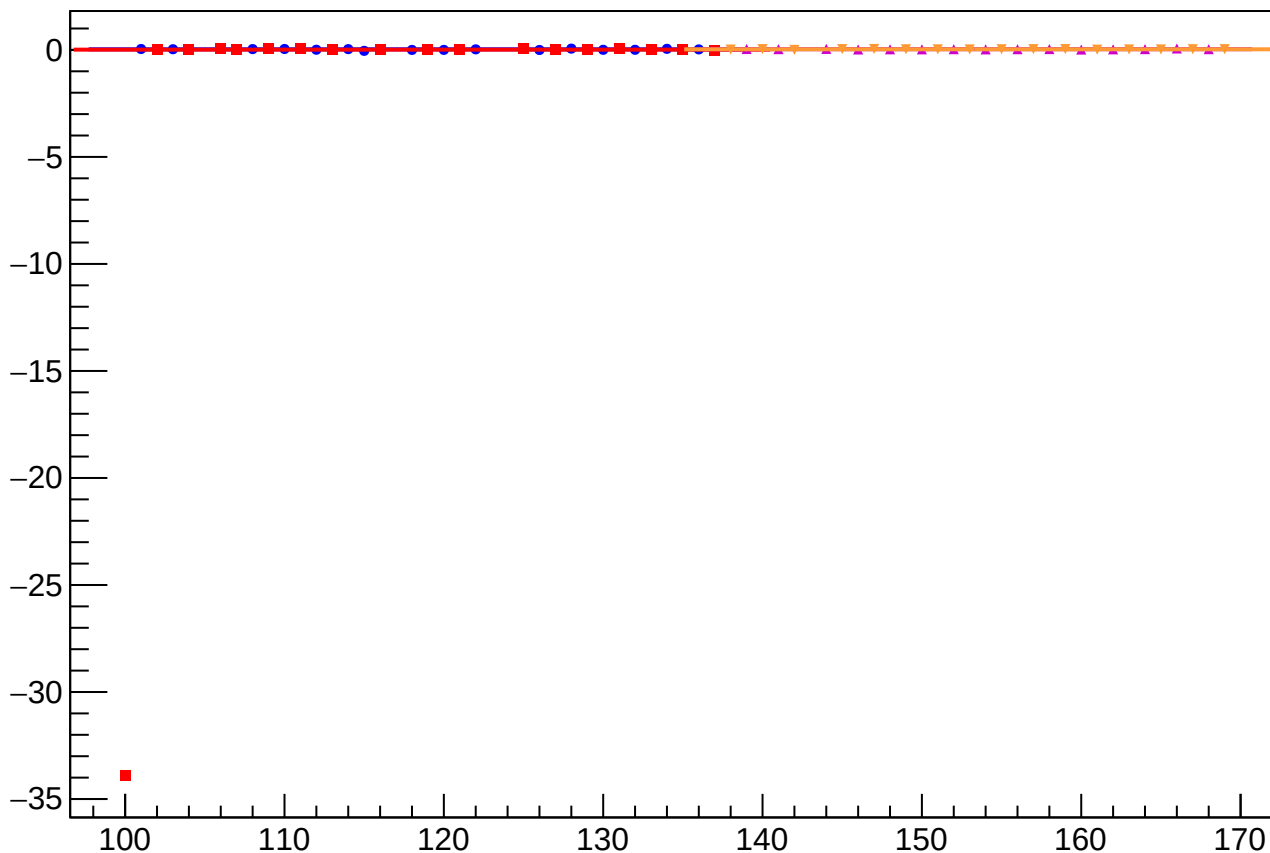
Right: 0.115 $\pm$ 0.060 χ^2 /NDF: 52.6/33

In: 0.099 $\pm$ 0.050 χ^2 /NDF:48.8/30

Out: -0.000 $\pm$ 0.050 χ^2 /NDF:58.6/33

All: 0.049 $\pm$ 0.035 χ^2 /NDF: 109.4/64

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.005 χ^2 /NDF: 14.7/15

Left Out: 0.028 $\pm$ 0.003 χ^2 /NDF:11.7/15

Right Out: 0.012 $\pm$ 0.005 χ^2 /NDF: 22262.0/17

Left In: 0.033 $\pm$ 0.003 χ^2 /NDF:12.5/14

Left: 0.031 $\pm$ 0.002 χ^2 /NDF: 25.8/30

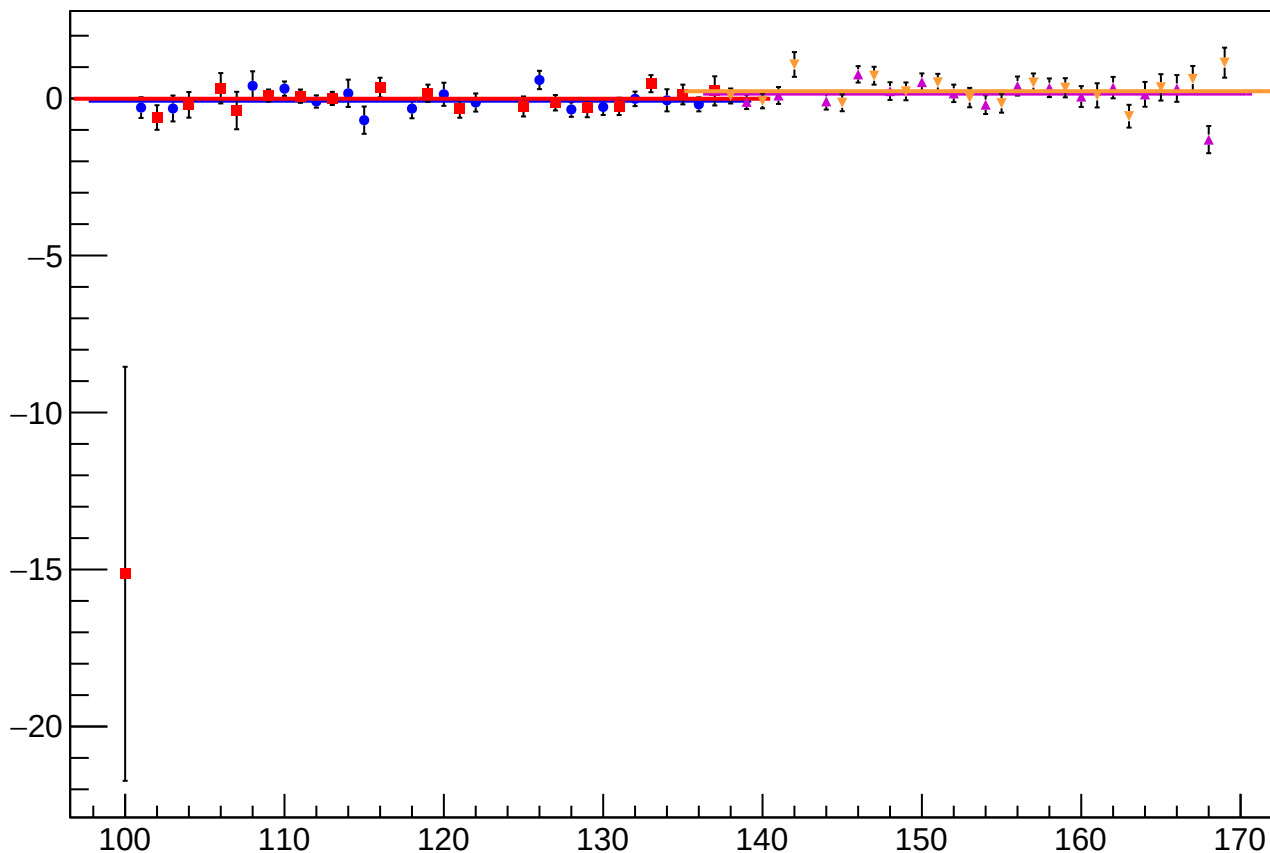
Right: 0.020 $\pm$ 0.003 χ^2 /NDF: 22281.9/33

In: 0.032 $\pm$ 0.002 χ^2 /NDF:28.3/30

Out: 0.024 $\pm$ 0.002 χ^2 /NDF:22282.2/33

All: 0.028 $\pm$ 0.002 χ^2 /NDF: 22315.3/64

reg_asym_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.070 ± 0.071 $\chi^2/\text{NDF}: 15.5/15$

Left Out: 0.233 ± 0.077 $\chi^2/\text{NDF}: 25.4/15$

Right Out: -0.007 ± 0.070 $\chi^2/\text{NDF}: 18.1/17$

Left In: 0.156 ± 0.077 $\chi^2/\text{NDF}: 24.1/14$

Left: 0.194 ± 0.054 $\chi^2/\text{NDF}: 49.9/30$

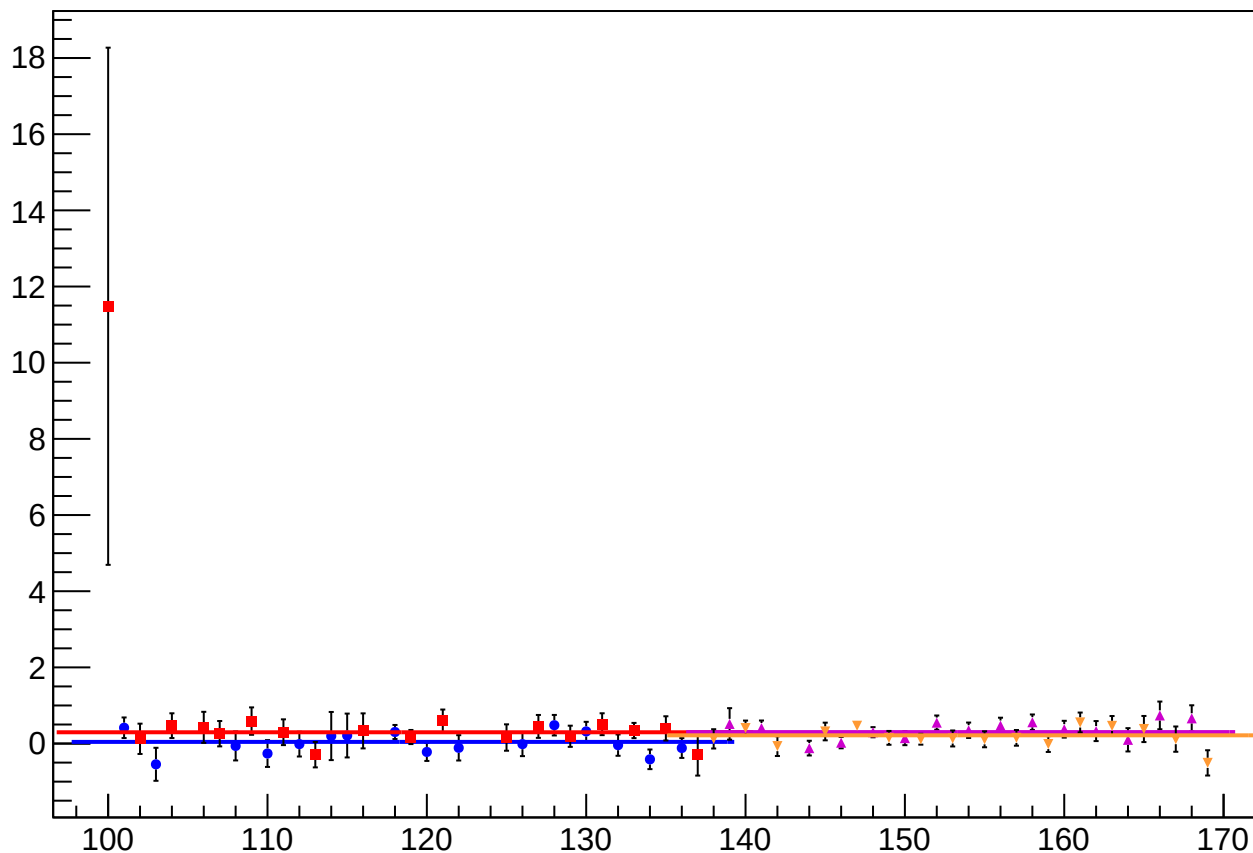
Right: -0.038 ± 0.050 $\chi^2/\text{NDF}: 34.1/33$

In: 0.034 ± 0.052 $\chi^2/\text{NDF}: 44.2/30$

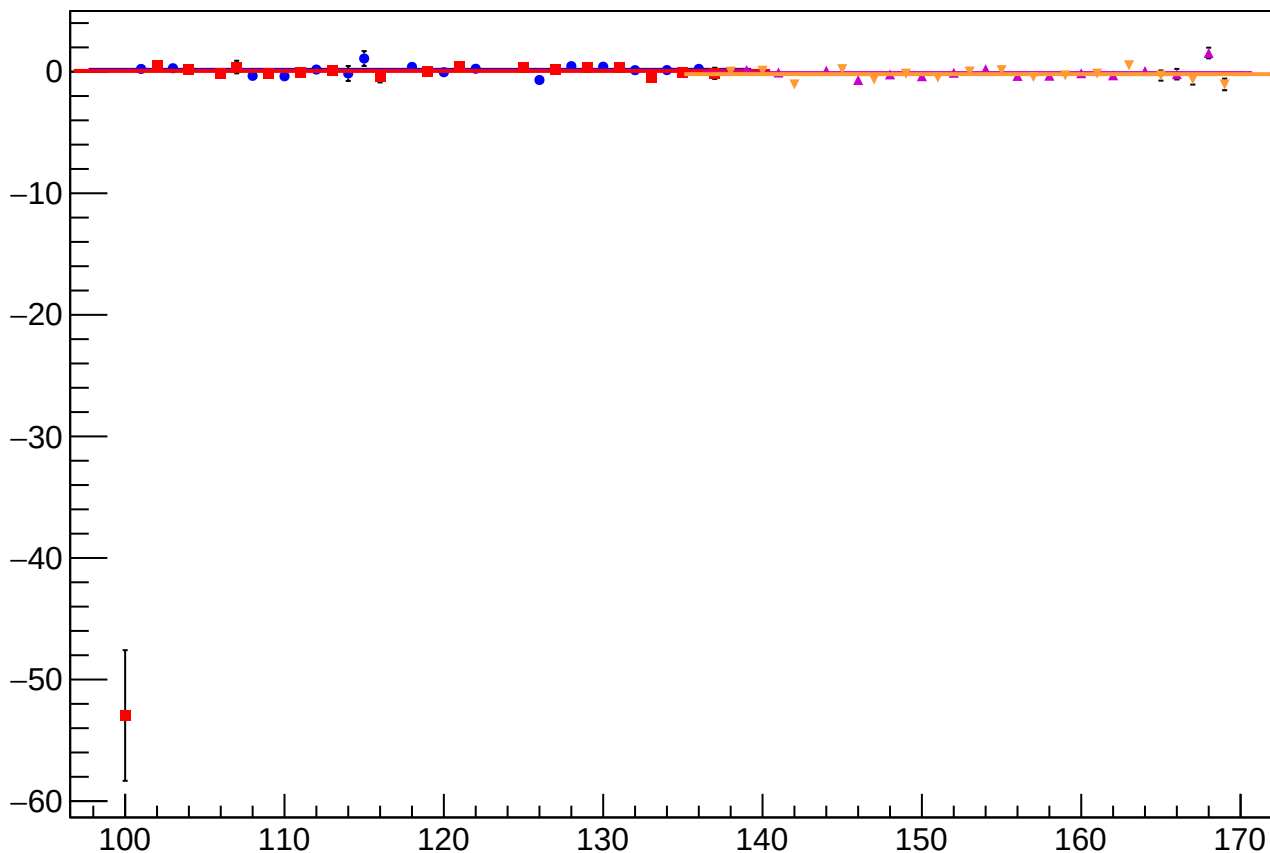
Out: 0.101 ± 0.052 $\chi^2/\text{NDF}: 48.8/33$

All: 0.068 ± 0.037 $\chi^2/\text{NDF}: 93.9/64$

reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



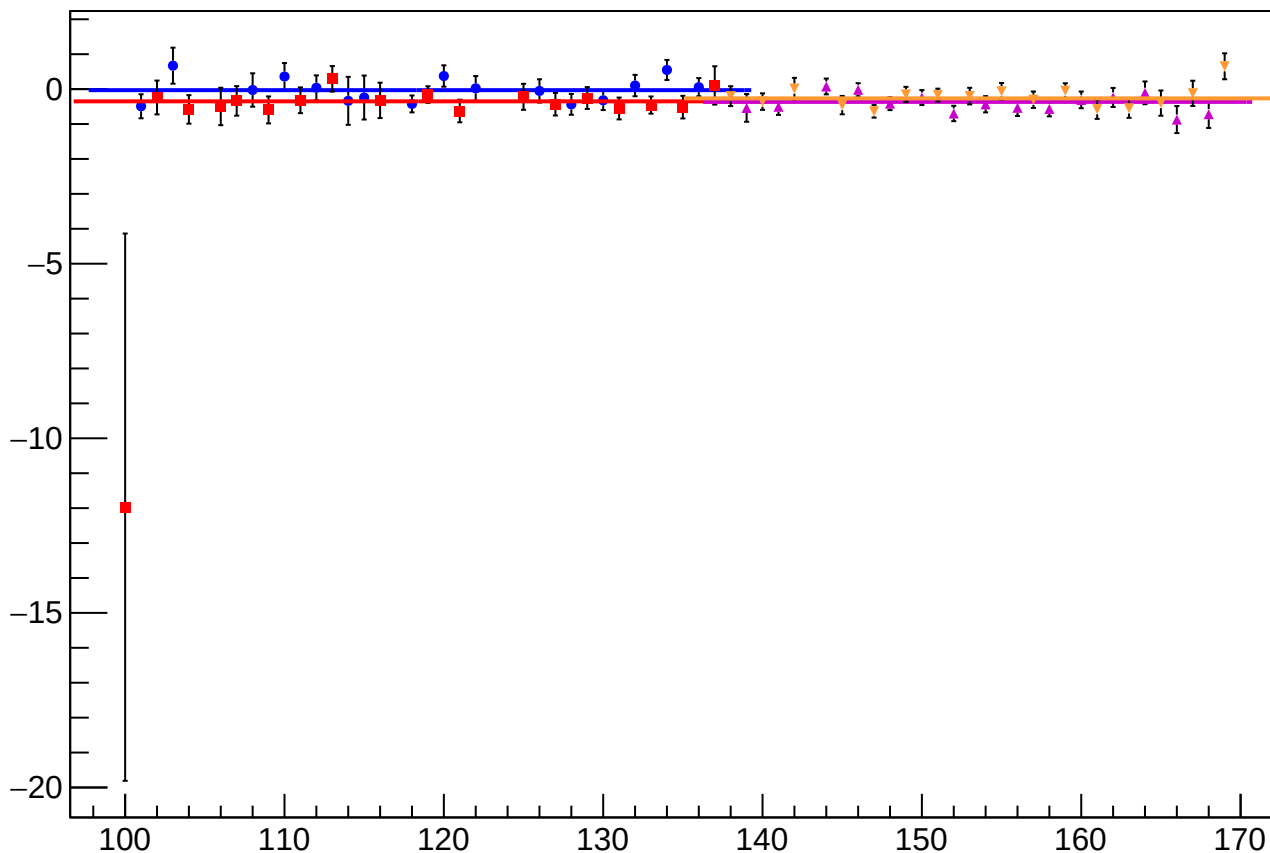
reg_asym_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.154+/-0.080 χ^2/NDF : 15.6/15
 Left Out: -0.201+/-0.075 χ^2/NDF : 23.9/15
 Right Out: 0.065+/-0.081 χ^2/NDF : 109.3/17
 Left In: -0.114+/-0.074 χ^2/NDF : 25.4/14

Left: -0.157+/-0.053 χ^2/NDF : 50.0/30
 Right: 0.110+/-0.057 χ^2/NDF : 125.5/33
 In: 0.011+/-0.054 χ^2/NDF : 47.0/30
 Out: -0.078+/-0.055 χ^2/NDF : 139.1/33
 All: -0.033+/-0.039 χ^2/NDF : 187.4/64

reg_asym_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.030 ± 0.084 χ^2/NDF : 16.8/15

Left Out: -0.265 ± 0.062 χ^2/NDF : 16.9/15

Right Out: -0.350 ± 0.085 χ^2/NDF : 9.4/17

Left In: -0.366 ± 0.063 χ^2/NDF : 15.3/14

Left: -0.315 ± 0.044 χ^2/NDF : 33.6/30

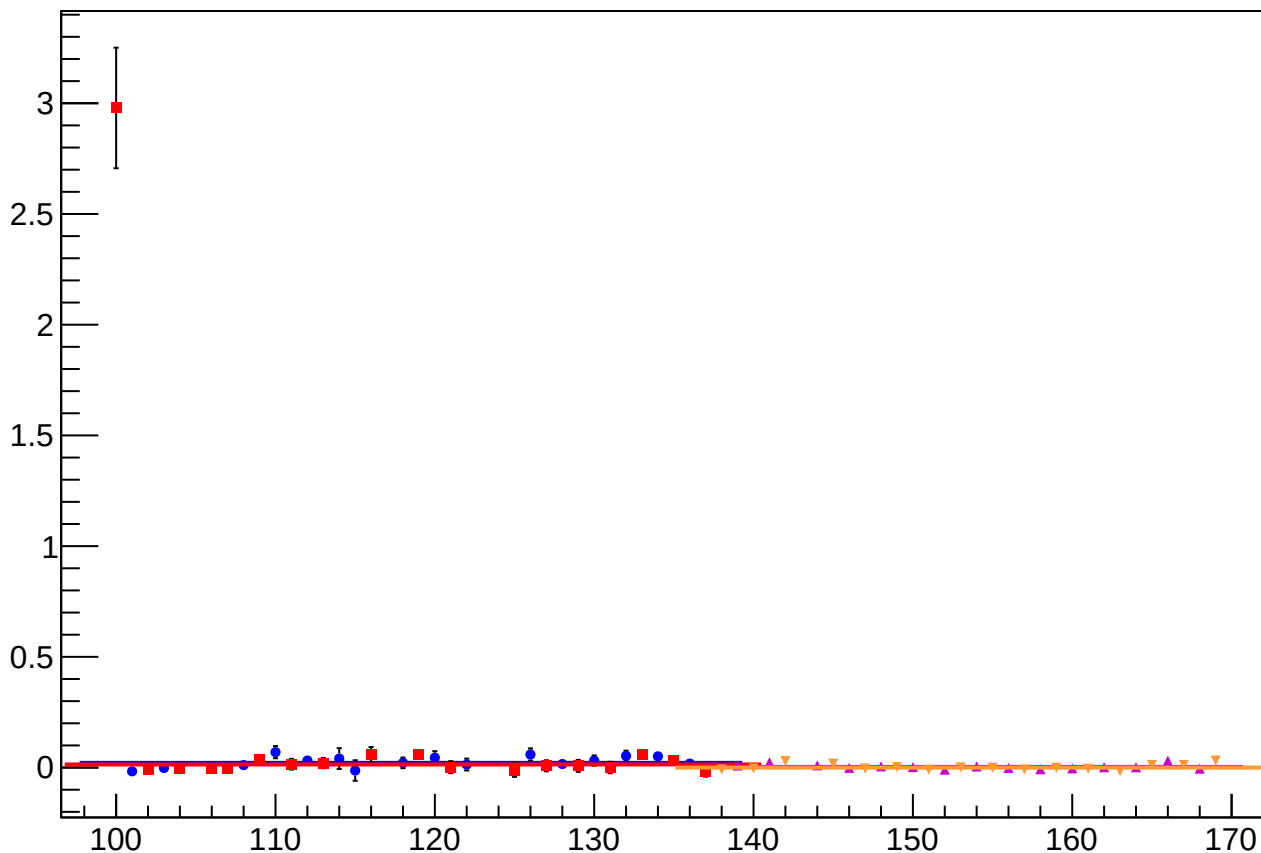
Right: -0.188 ± 0.060 χ^2/NDF : 33.4/33

In: -0.246 ± 0.050 χ^2/NDF : 42.4/30

Out: -0.295 ± 0.050 χ^2/NDF : 27.0/33

All: -0.270 ± 0.035 χ^2/NDF : 69.9/64

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.021+/-0.005 χ^2/NDF : 22.5/15

Left Out: -0.000+/-0.003 χ^2/NDF :15.1/15

Right Out: 0.014+/-0.005 χ^2/NDF : 140.9/17

Left In: 0.003+/-0.003 χ^2/NDF :11.1/14

Left: 0.001+/-0.002 χ^2/NDF : 26.8/30

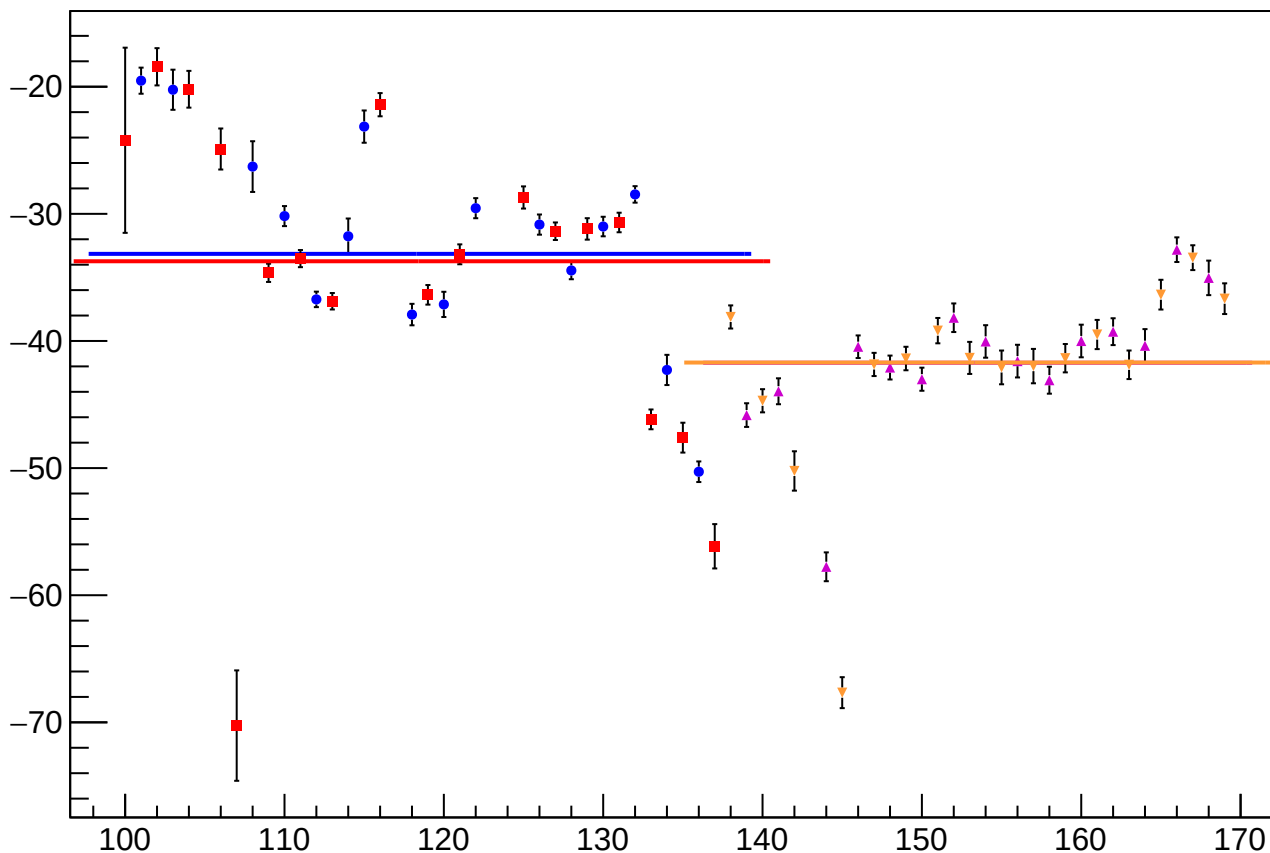
Right: 0.018+/-0.003 χ^2/NDF : 164.5/33

In: 0.007+/-0.002 χ^2/NDF :44.5/30

Out: 0.003+/-0.002 χ^2/NDF :162.3/33

All: 0.005+/-0.002 χ^2/NDF : 208.2/64

reg_asym_left_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.148 ± 0.218 $\chi^2/\text{NDF}: 1013.9/15$

Left Out: -41.697 ± 0.273 $\chi^2/\text{NDF}: 631.6/15$

Right Out: -33.730 ± 0.215 $\chi^2/\text{NDF}: 1148.4/17$

Left In: -41.715 ± 0.276 $\chi^2/\text{NDF}: 358.8/14$

Left: -41.706 ± 0.194 $\chi^2/\text{NDF}: 990.4/30$

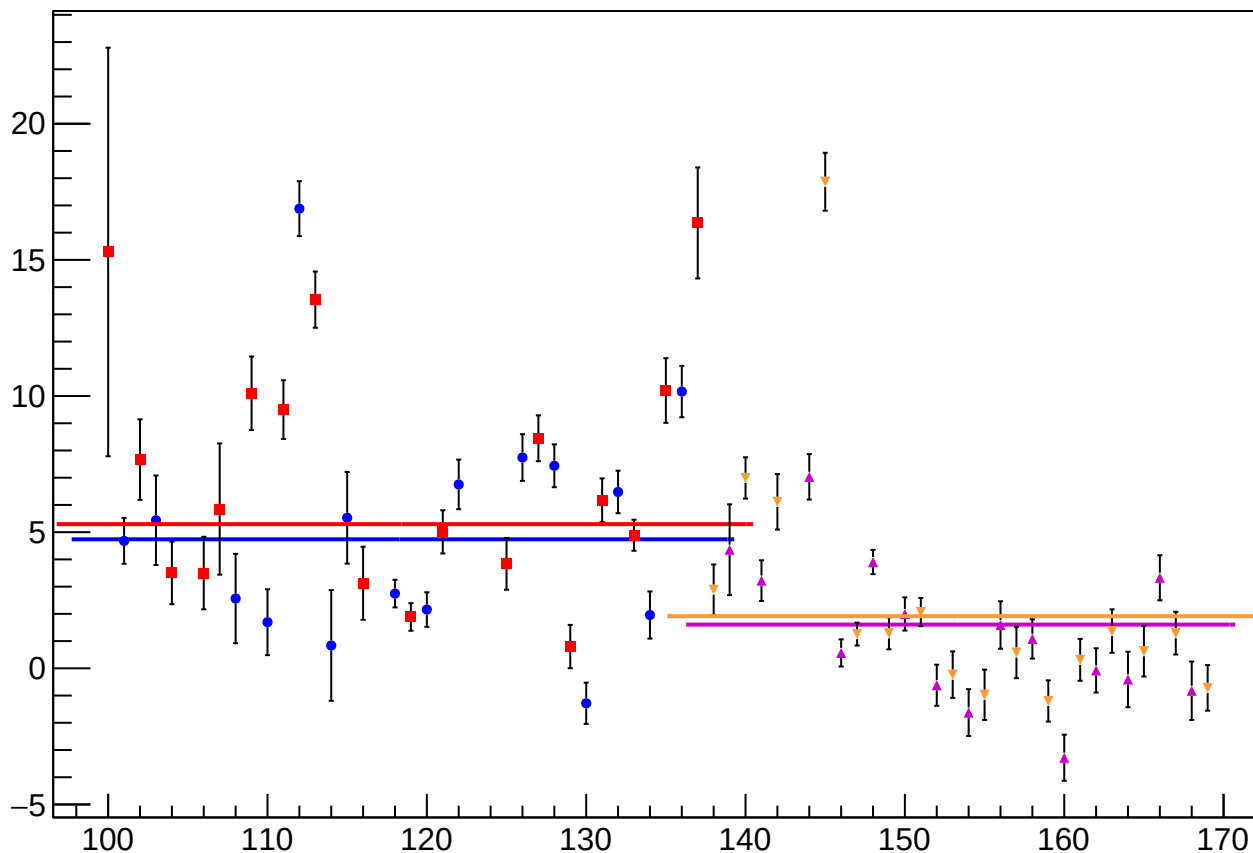
Right: -33.443 ± 0.153 $\chi^2/\text{NDF}: 2166.0/33$

In: -36.433 ± 0.171 $\chi^2/\text{NDF}: 1965.0/30$

Out: -36.781 ± 0.169 $\chi^2/\text{NDF}: 2306.5/33$

All: -36.610 ± 0.120 $\chi^2/\text{NDF}: 4273.7/64$

reg_asym_left_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.738 ± 0.219 $\chi^2/\text{NDF}: 329.6/15$

Left Out: 1.915 ± 0.183 $\chi^2/\text{NDF}: 343.7/15$

Right Out: 5.295 ± 0.223 $\chi^2/\text{NDF}: 245.0/17$

Left In: 1.606 ± 0.189 $\chi^2/\text{NDF}: 155.4/14$

Left: 1.766 ± 0.131 $\chi^2/\text{NDF}: 500.5/30$

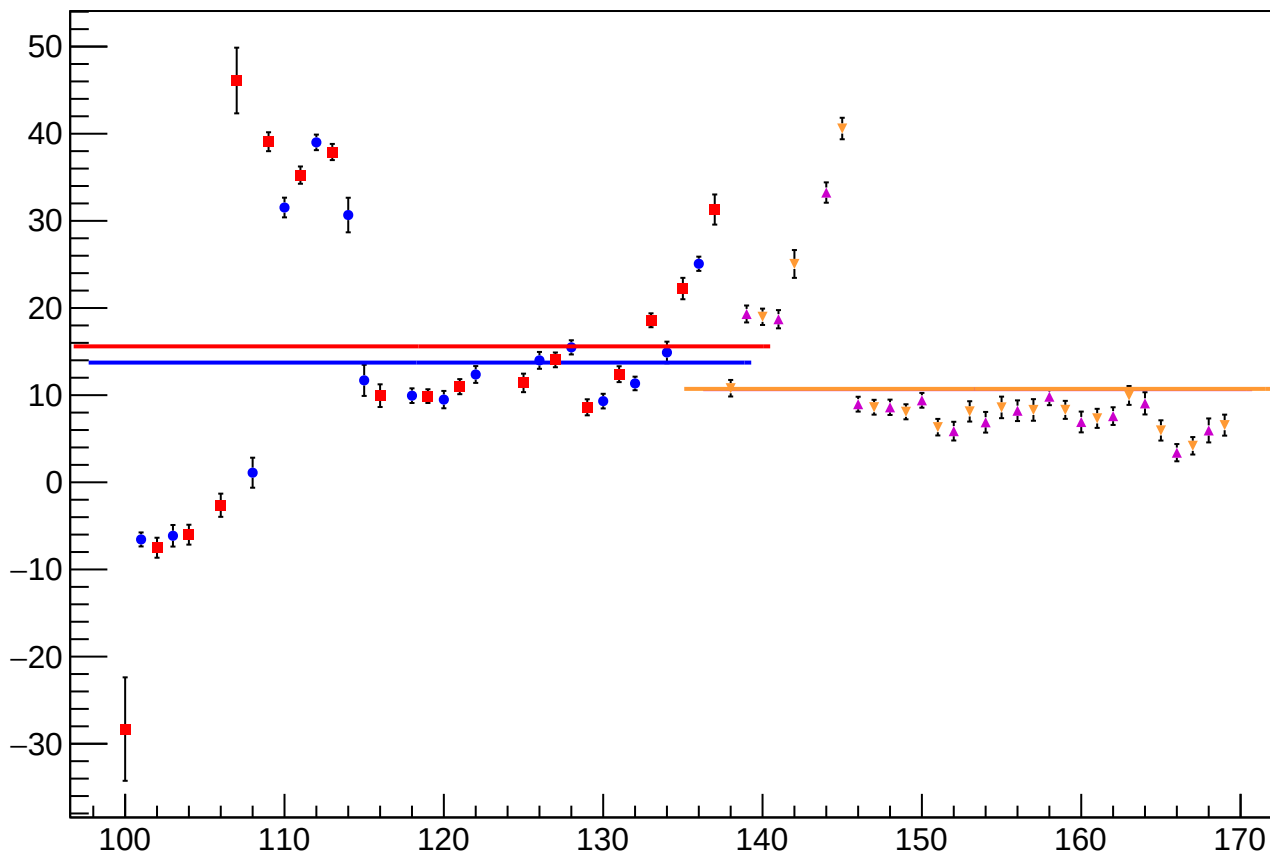
Right: 5.012 ± 0.156 $\chi^2/\text{NDF}: 577.8/33$

In: 2.944 ± 0.143 $\chi^2/\text{NDF}: 602.0/30$

Out: 3.271 ± 0.141 $\chi^2/\text{NDF}: 725.8/33$

All: 3.110 ± 0.101 $\chi^2/\text{NDF}: 1330.5/64$

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 13.738 $\pm$ 0.247 χ^2 /NDF: 2349.9/15

Left Out: 10.721 $\pm$ 0.265 χ^2 /NDF:881.5/15

Right Out: 15.599 $\pm$ 0.250 χ^2 /NDF: 2826.3/17

Left In: 10.691 $\pm$ 0.268 χ^2 /NDF:646.0/14

Left: 10.706 $\pm$ 0.188 χ^2 /NDF: 1527.5/30

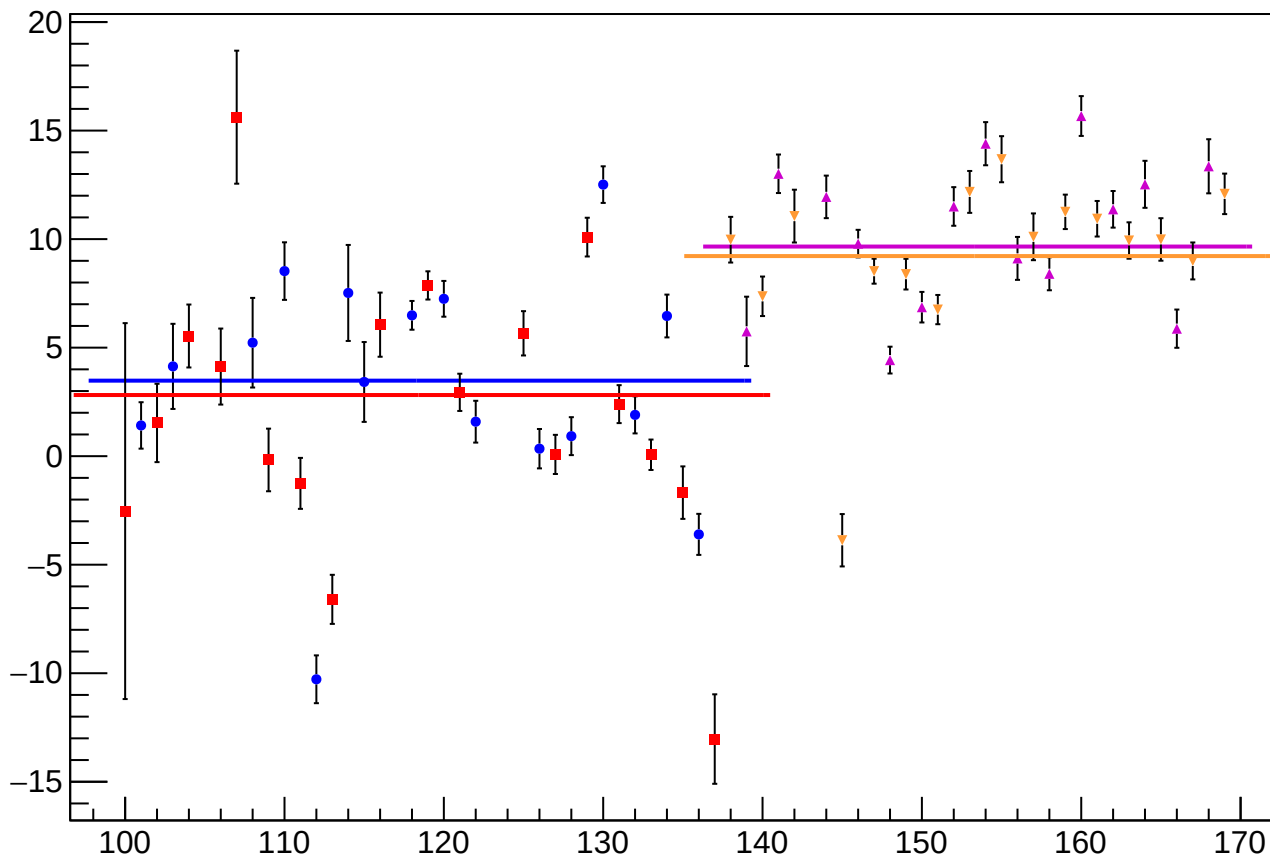
Right: 14.656 $\pm$ 0.176 χ^2 /NDF: 5204.2/33

In: 12.339 $\pm$ 0.181 χ^2 /NDF:3065.9/30

Out: 13.303 $\pm$ 0.182 χ^2 /NDF:3886.9/33

All: 12.820 $\pm$ 0.128 χ^2 /NDF: 6966.9/64

reg_asym_left_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 3.479+/-0.254 χ^2/NDF : 427.6/15

Left Out: 9.219+/-0.215 χ^2/NDF :190.6/15

Right Out: 2.817+/-0.257 χ^2/NDF : 345.3/17

Left In: 9.658+/-0.222 χ^2/NDF :224.7/14

Left: 9.431+/-0.155 χ^2/NDF : 417.3/30

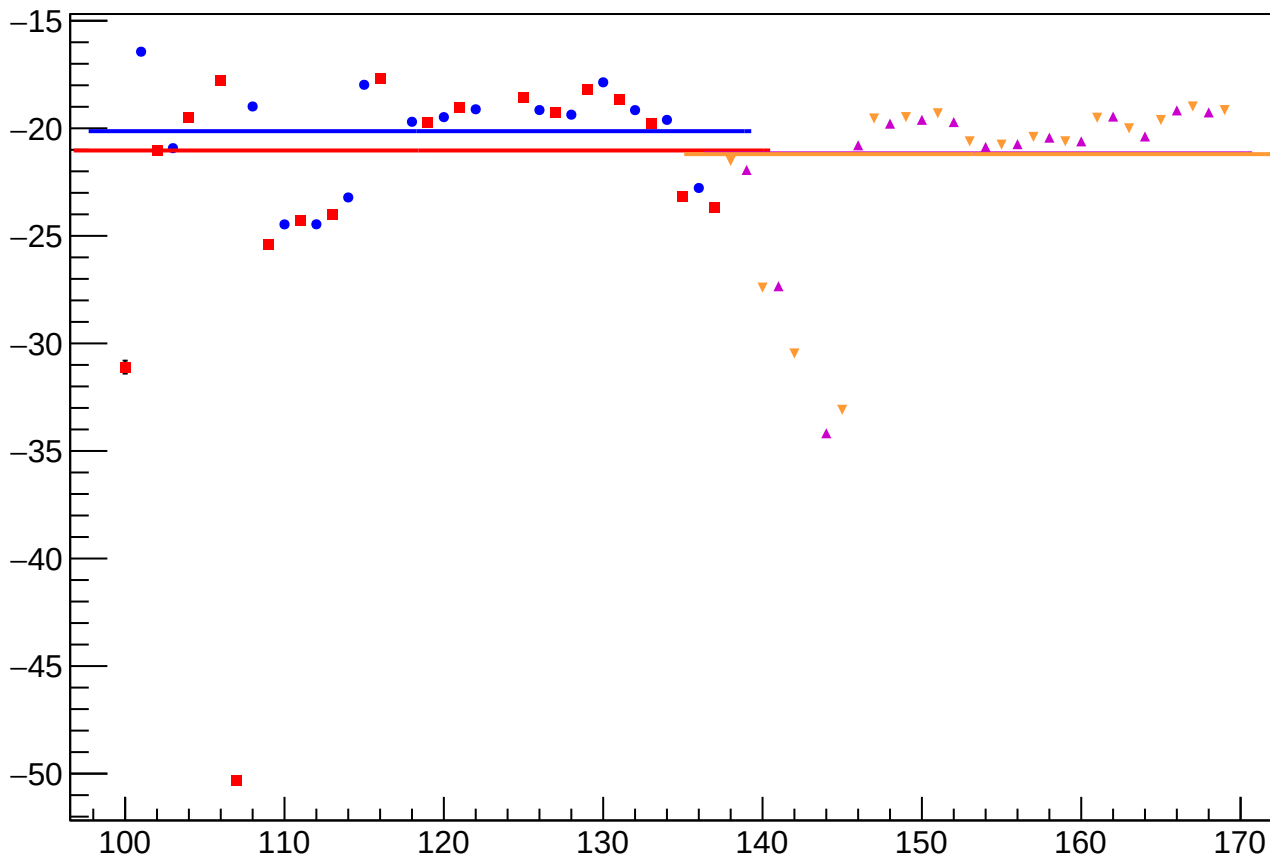
Right: 3.153+/-0.181 χ^2/NDF : 776.3/33

In: 6.973+/-0.167 χ^2/NDF :987.8/30

Out: 6.583+/-0.165 χ^2/NDF :900.2/33

All: 6.776+/-0.117 χ^2/NDF : 1890.7/64

reg_asym_left_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.133 $\pm$ 0.016 χ^2 /NDF: 19831.2/15

Left Out: -21.200 $\pm$ 0.010 χ^2 /NDF:119872.2/15

Right Out: -21.031 $\pm$ 0.016 χ^2 /NDF: 57523.6/17

Left In: -21.164 $\pm$ 0.010 χ^2 /NDF:95263.7/14

Left: -21.182 $\pm$ 0.007 χ^2 /NDF: 215142.6/30

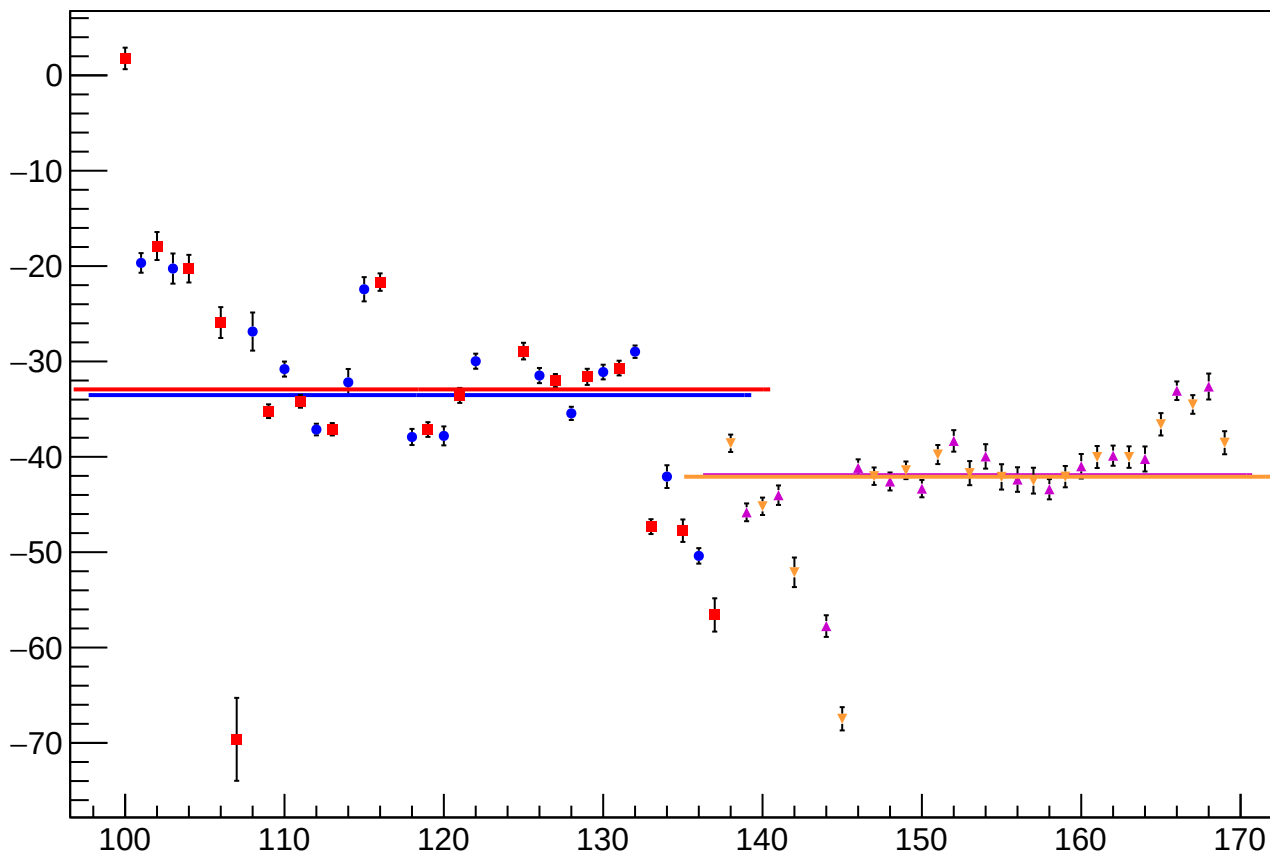
Right: -20.570 $\pm$ 0.011 χ^2 /NDF: 78882.9/33

In: -20.869 $\pm$ 0.009 χ^2 /NDF:118052.8/30

Out: -21.154 $\pm$ 0.009 χ^2 /NDF:177473.4/33

All: -21.011 $\pm$ 0.006 χ^2 /NDF: 296078.7/64

reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -33.528 ± 0.218 χ^2/NDF : 1008.7/15

Left Out: -42.087 ± 0.273 χ^2/NDF : 604.2/15

Right Out: -32.931 ± 0.212 χ^2/NDF : 2170.0/17

Left In: -41.928 ± 0.277 χ^2/NDF : 369.3/14

Left: -42.009 ± 0.195 χ^2/NDF : 973.7/30

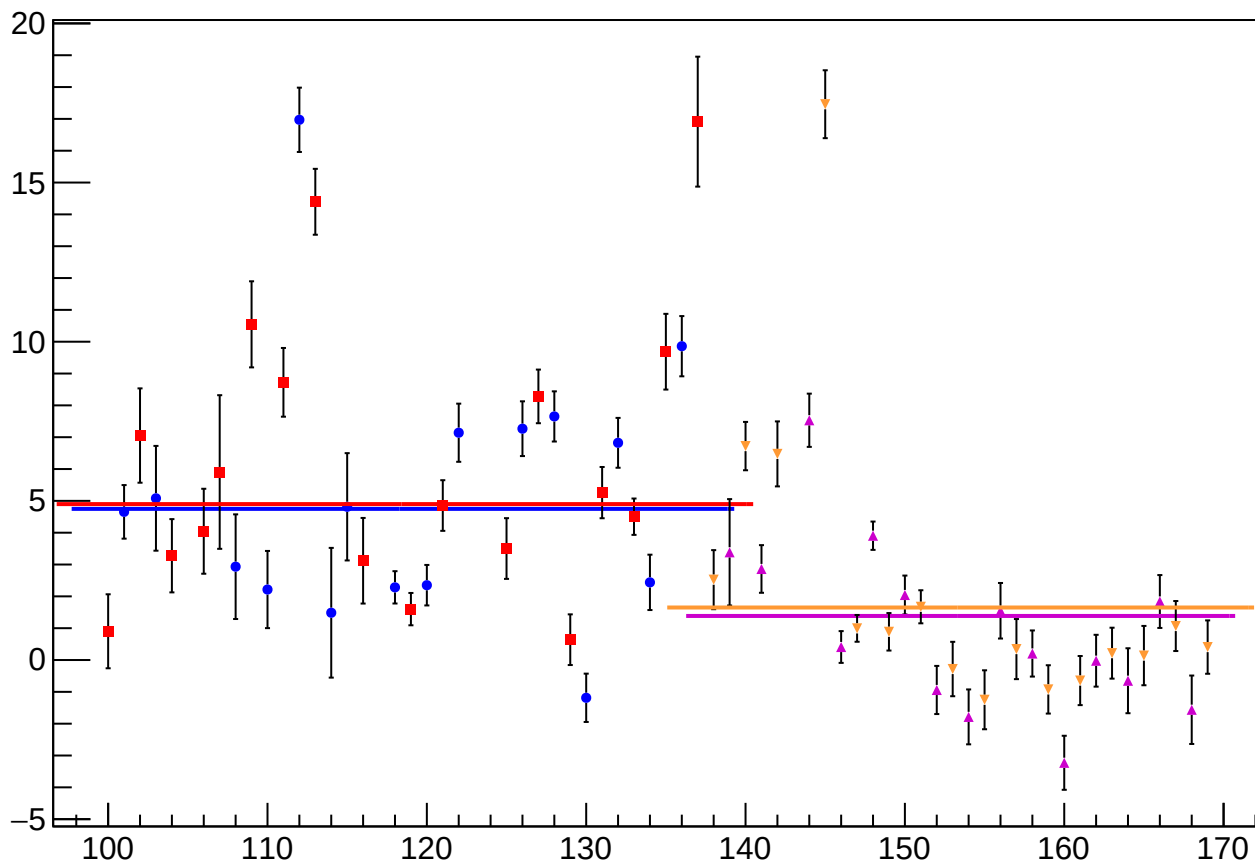
Right: -33.220 ± 0.152 χ^2/NDF : 3182.6/33

In: -36.749 ± 0.172 χ^2/NDF : 1945.1/30

Out: -36.364 ± 0.167 χ^2/NDF : 3476.3/33

All: -36.552 ± 0.120 χ^2/NDF : 5424.0/64

reg_asym_left_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.748 $\pm$ 0.220 χ^2 /NDF: 325.7/15

Left Out: 1.650 $\pm$ 0.183 χ^2 /NDF:337.4/15

Right Out: 4.898 $\pm$ 0.220 χ^2 /NDF: 273.1/17

Left In: 1.384 $\pm$ 0.190 χ^2 /NDF:166.4/14

Left: 1.522 $\pm$ 0.132 χ^2 /NDF: 504.9/30

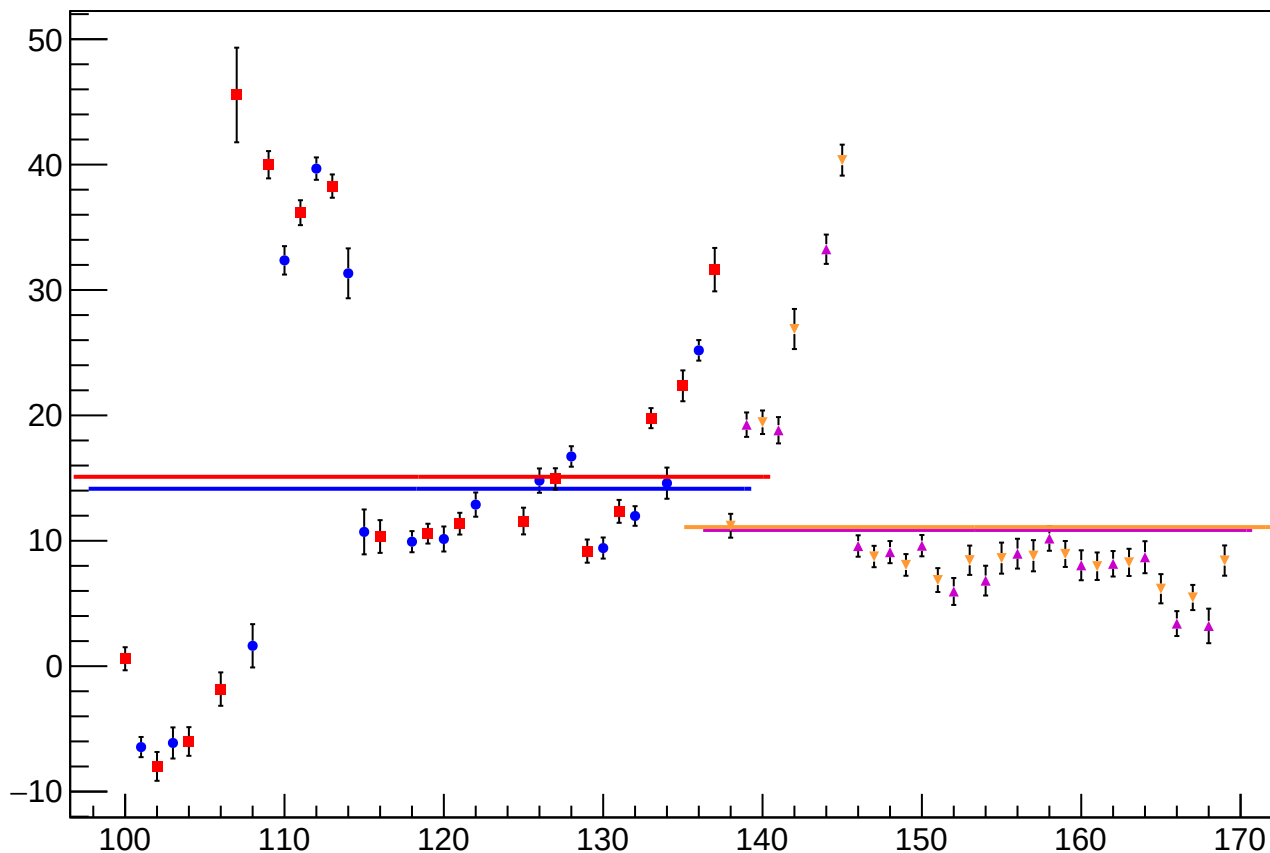
Right: 4.823 $\pm$ 0.155 χ^2 /NDF: 599.0/33

In: 2.821 $\pm$ 0.144 χ^2 /NDF:626.5/30

Out: 2.980 $\pm$ 0.141 χ^2 /NDF:739.3/33

All: 2.902 $\pm$ 0.100 χ^2 /NDF: 1366.4/64

reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 14.149 $\pm$ 0.247 χ^2 /NDF: 2402.4/15

Left Out: 11.091 $\pm$ 0.266 χ^2 /NDF:863.5/15

Right Out: 15.103 $\pm$ 0.242 χ^2 /NDF: 3102.3/17

Left In: 10.865 $\pm$ 0.268 χ^2 /NDF:645.4/14

Left: 10.979 $\pm$ 0.189 χ^2 /NDF: 1509.3/30

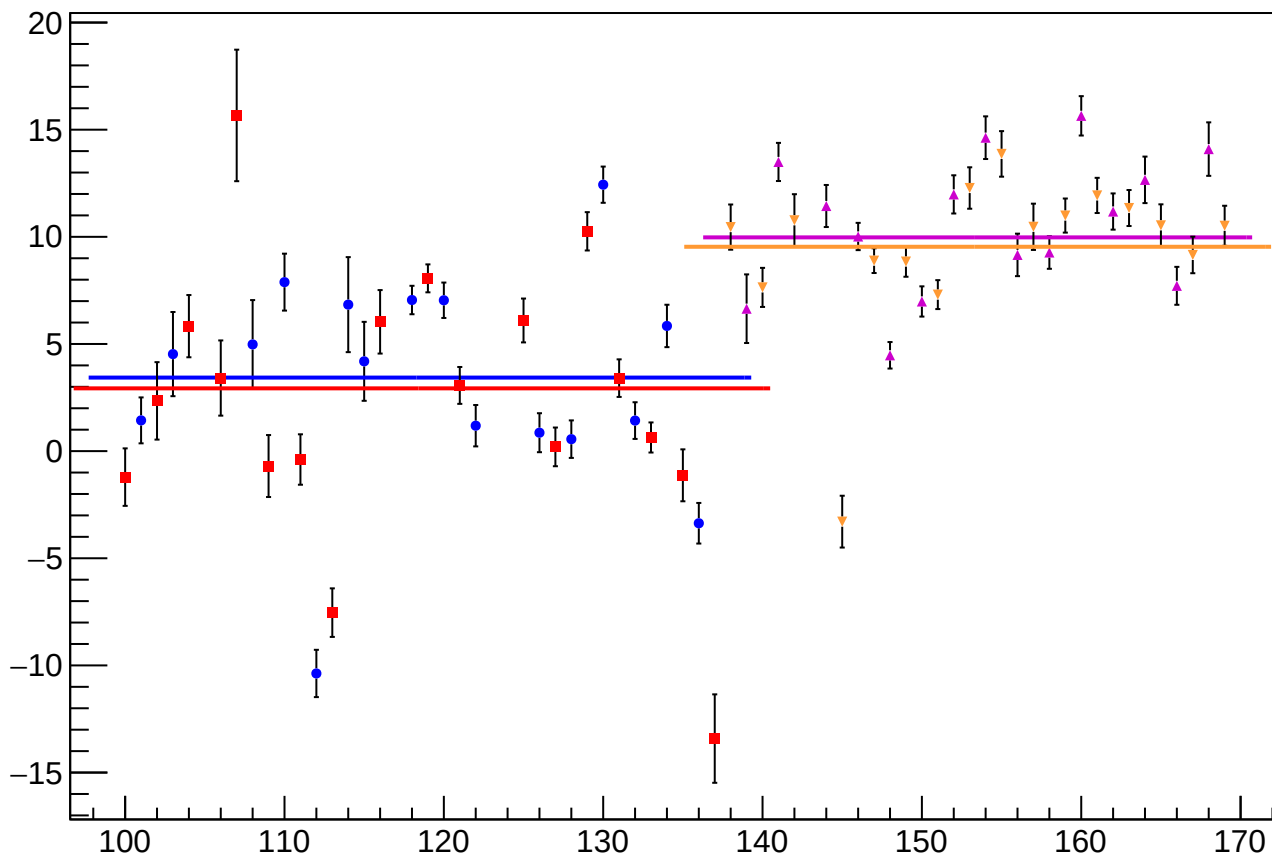
Right: 14.636 $\pm$ 0.173 χ^2 /NDF: 5512.3/33

In: 12.641 $\pm$ 0.182 χ^2 /NDF:3128.8/30

Out: 13.284 $\pm$ 0.179 χ^2 /NDF:4090.5/33

All: 12.968 $\pm$ 0.128 χ^2 /NDF: 7225.6/64

reg_asym_left_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 3.432 ± 0.254 $\chi^2/\text{NDF}: 424.0/15$

Left Out: 9.536 ± 0.216 $\chi^2/\text{NDF}: 176.1/15$

Right Out: 2.929 ± 0.253 $\chi^2/\text{NDF}: 367.7/17$

Left In: 9.975 ± 0.223 $\chi^2/\text{NDF}: 211.5/14$

Left: 9.748 ± 0.155 $\chi^2/\text{NDF}: 389.5/30$

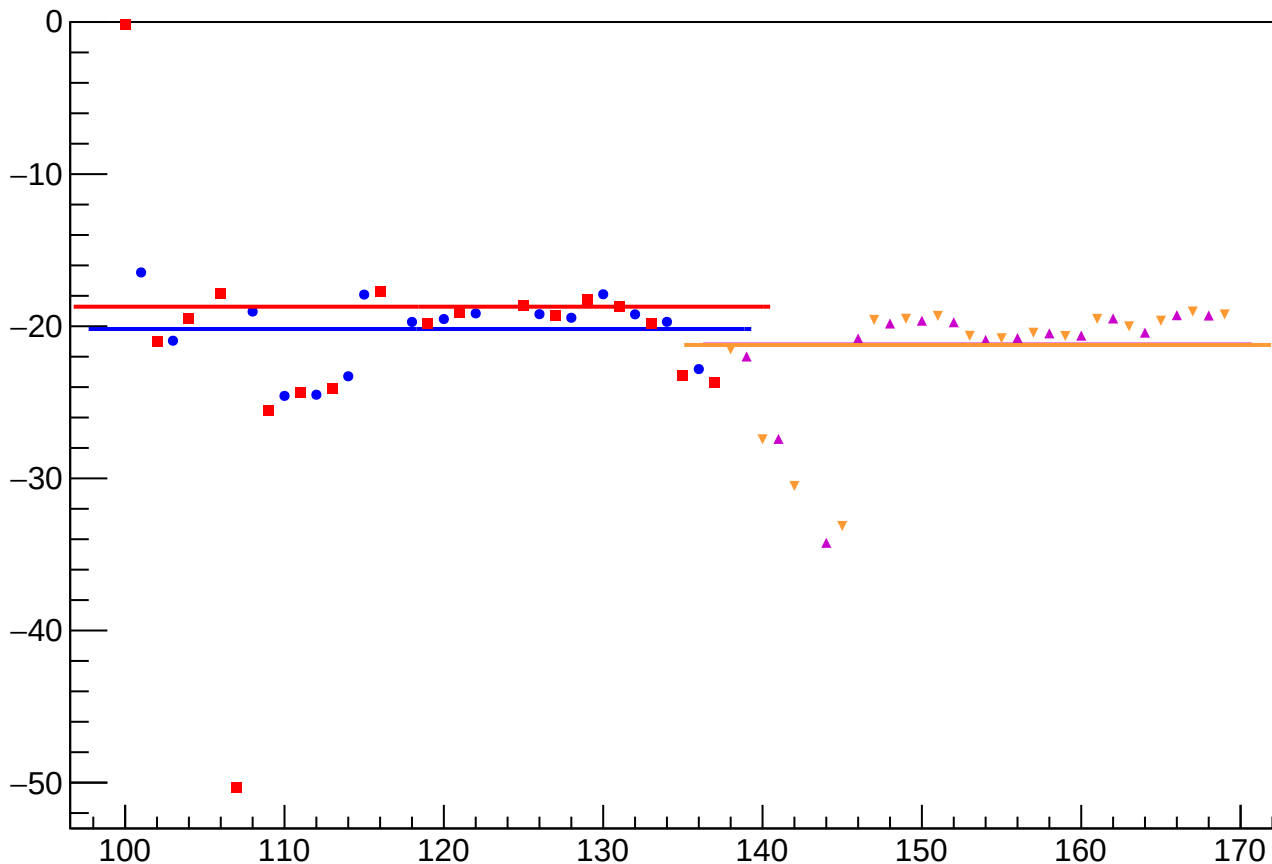
Right: 3.179 ± 0.179 $\chi^2/\text{NDF}: 793.7/33$

In: 7.132 ± 0.168 $\chi^2/\text{NDF}: 1010.1/30$

Out: 6.760 ± 0.164 $\chi^2/\text{NDF}: 938.3/33$

All: 6.943 ± 0.117 $\chi^2/\text{NDF}: 1950.9/64$

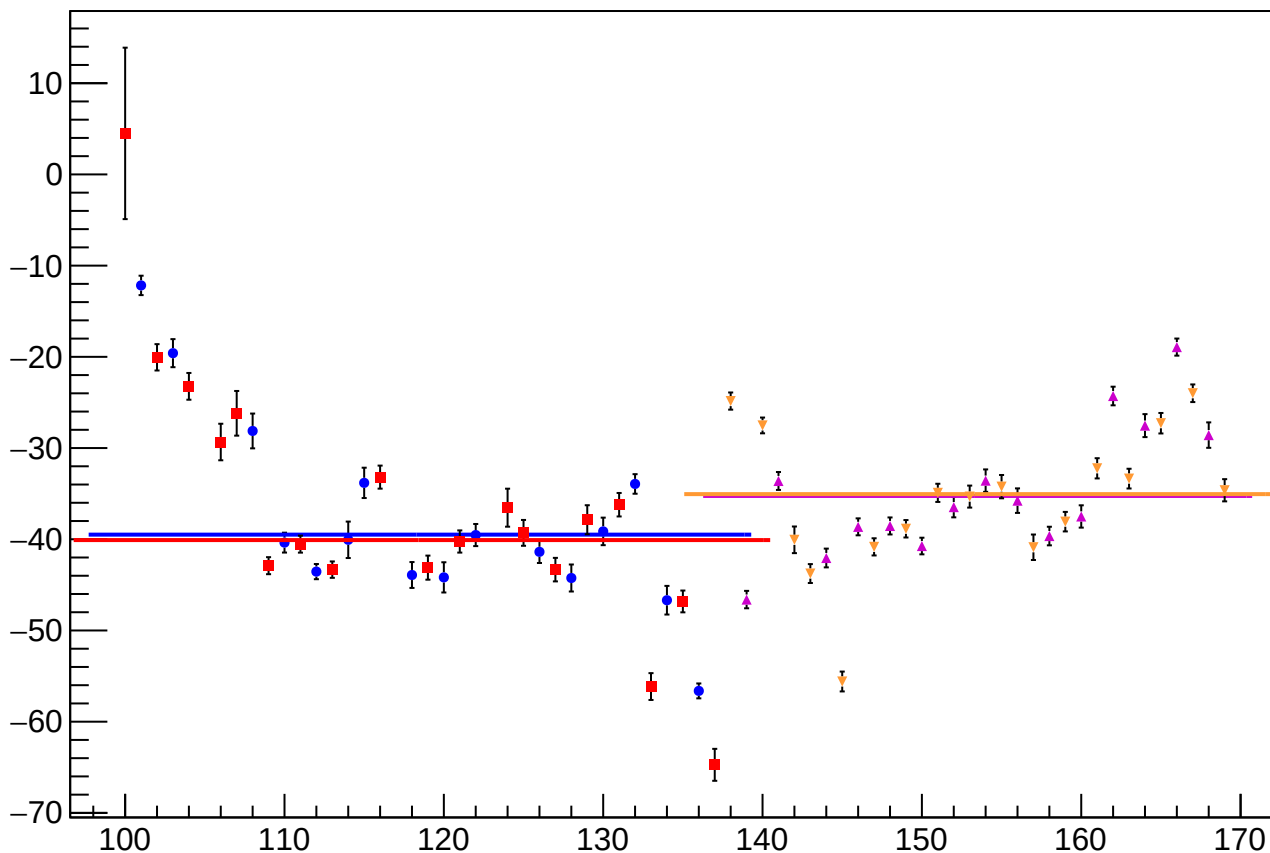
reg_asym_left_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.180 ± 0.016 $\chi^2/\text{NDF}: 19856.9/15$
 Left Out: -21.229 ± 0.010 $\chi^2/\text{NDF}: 119506.3/15$
 Right Out: -18.714 ± 0.016 $\chi^2/\text{NDF}: 234667.0/17$
 Left In: -21.202 ± 0.010 $\chi^2/\text{NDF}: 95231.7/14$

Left: -21.215 ± 0.007 $\chi^2/\text{NDF}: 214741.6/30$
 Right: -19.425 ± 0.011 $\chi^2/\text{NDF}: 258824.1/33$
 In: -20.910 ± 0.009 $\chi^2/\text{NDF}: 117981.7/30$
 Out: -20.485 ± 0.008 $\chi^2/\text{NDF}: 372557.1/33$
 All: -20.695 ± 0.006 $\chi^2/\text{NDF}: 491781.7/64$

reg_asym_right_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.493 ± 0.311 $\chi^2/\text{NDF}: 1417.1/15$

Left Out: -35.051 ± 0.260 $\chi^2/\text{NDF}: 899.1/16$

Right Out: -40.090 ± 0.307 $\chi^2/\text{NDF}: 834.9/18$

Left In: -35.251 ± 0.272 $\chi^2/\text{NDF}: 754.1/14$

Left: -35.146 ± 0.188 $\chi^2/\text{NDF}: 1653.5/31$

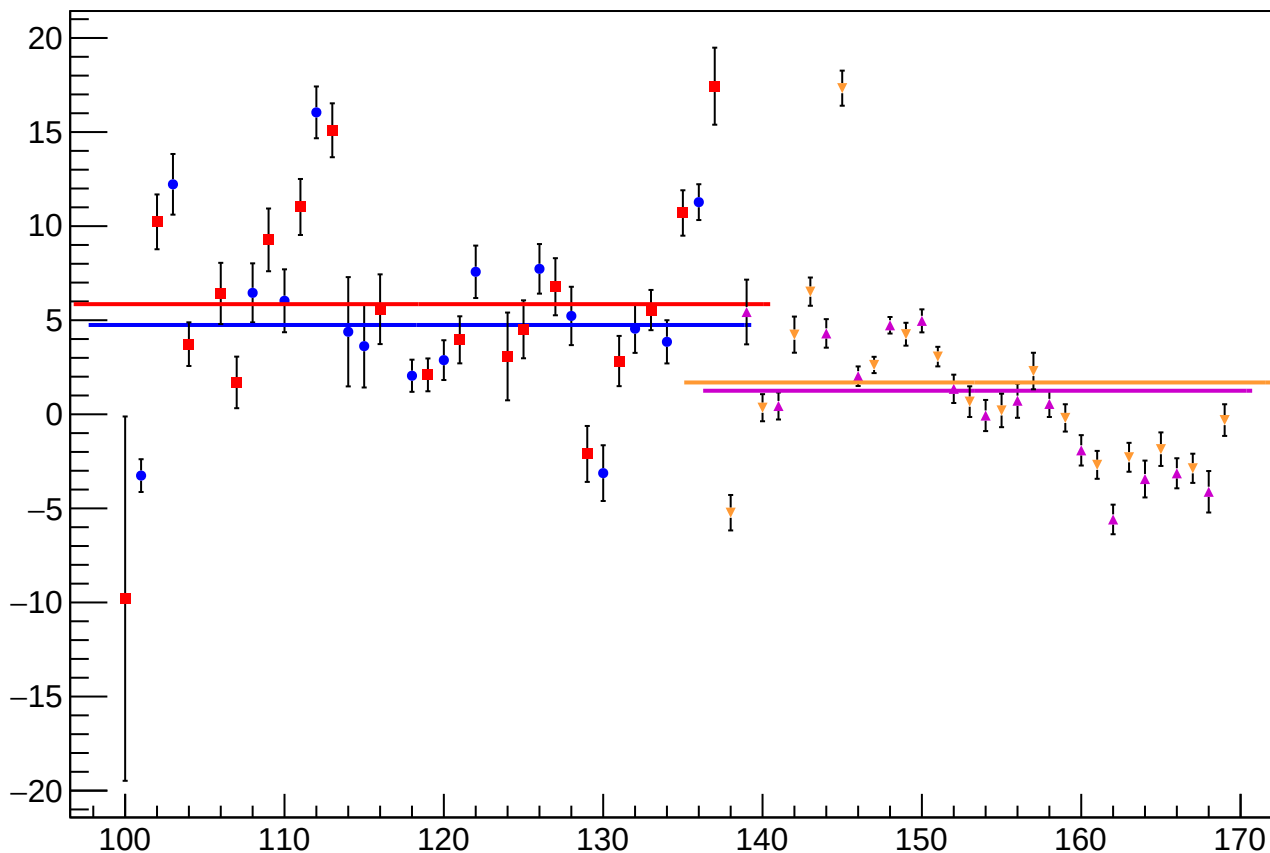
Right: -39.795 ± 0.218 $\chi^2/\text{NDF}: 2253.9/34$

In: -37.095 ± 0.205 $\chi^2/\text{NDF}: 2276.5/30$

Out: -37.151 ± 0.198 $\chi^2/\text{NDF}: 1891.1/35$

All: -37.124 ± 0.142 $\chi^2/\text{NDF}: 4167.6/66$

reg_asym_right_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.747 ± 0.316 $\chi^2/\text{NDF}: 273.8/15$

Left Out: 1.692 ± 0.176 $\chi^2/\text{NDF}: 545.8/16$

Right Out: 5.854 ± 0.324 $\chi^2/\text{NDF}: 187.6/18$

Left In: 1.252 ± 0.187 $\chi^2/\text{NDF}: 296.9/14$

Left: 1.486 ± 0.128 $\chi^2/\text{NDF}: 845.6/31$

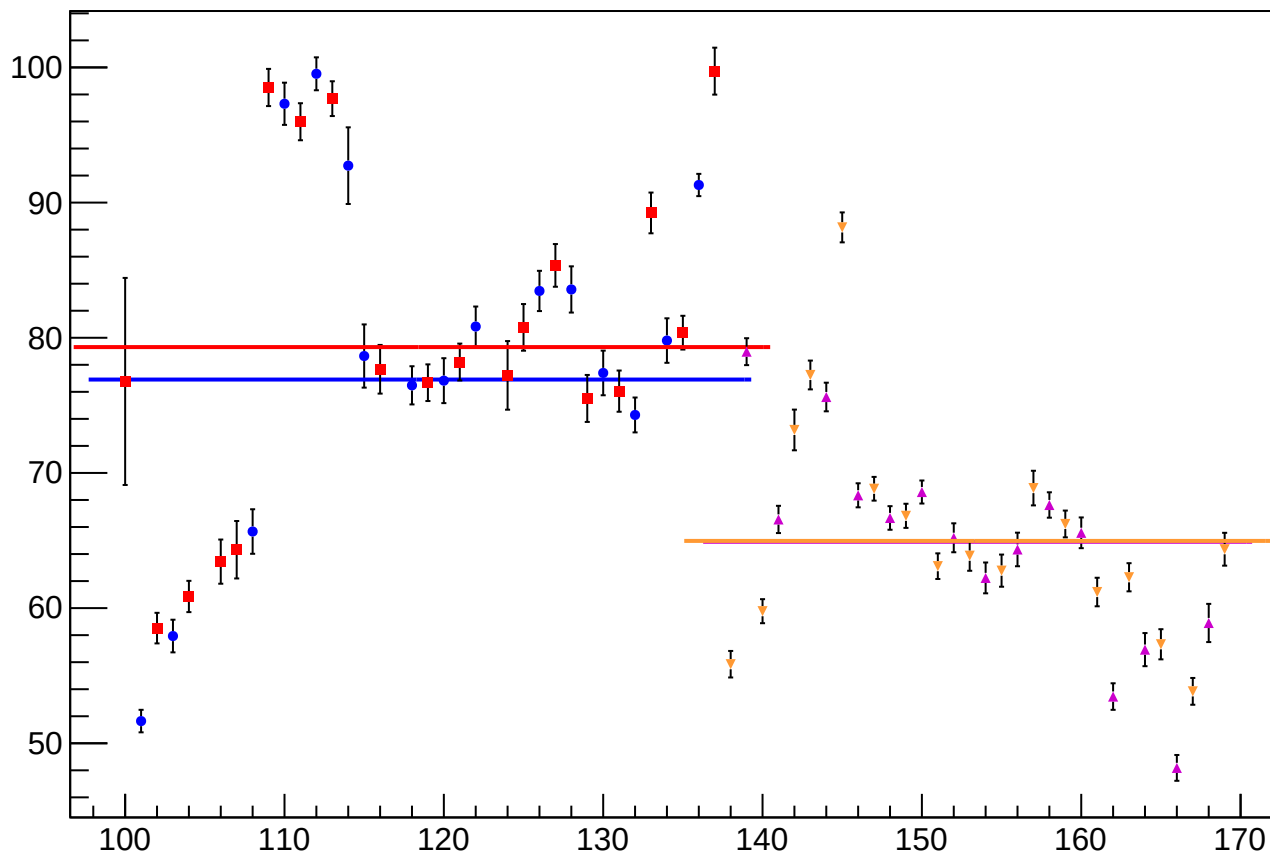
Right: 5.287 ± 0.226 $\chi^2/\text{NDF}: 467.4/34$

In: 2.158 ± 0.161 $\chi^2/\text{NDF}: 661.4/30$

Out: 2.639 ± 0.154 $\chi^2/\text{NDF}: 861.0/35$

All: 2.408 ± 0.111 $\chi^2/\text{NDF}: 1527.0/66$

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 76.909 $\pm$ 0.337 χ^2/NDF : 2116.0/15

Left Out: 64.972 $\pm$ 0.254 χ^2/NDF : 956.8/16

Right Out: 79.311 $\pm$ 0.348 χ^2/NDF : 1496.4/18

Left In: 64.907 $\pm$ 0.264 χ^2/NDF : 860.0/14

Left: 64.941 $\pm$ 0.183 χ^2/NDF : 1816.9/31

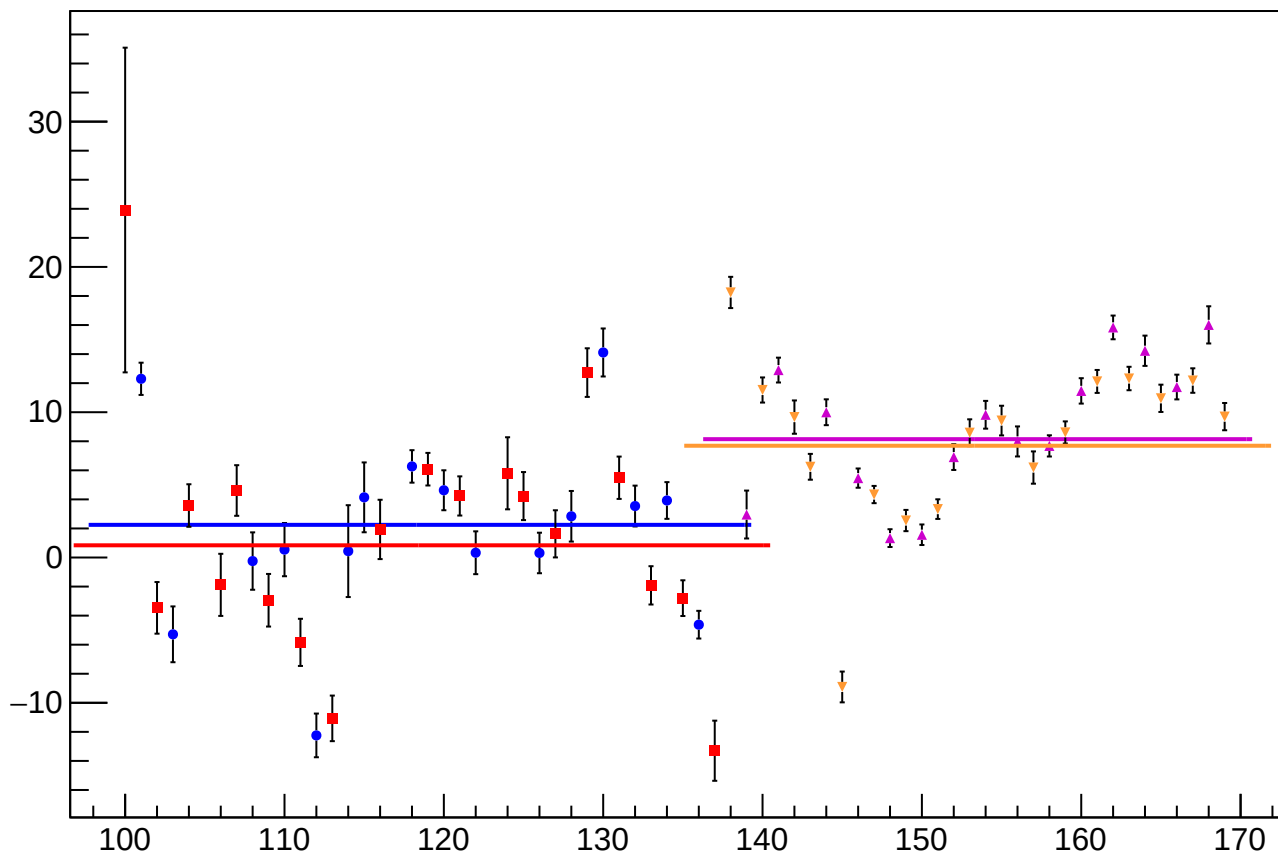
Right: 78.071 $\pm$ 0.242 χ^2/NDF : 3636.9/34

In: 69.476 $\pm$ 0.208 χ^2/NDF : 3762.2/30

Out: 69.946 $\pm$ 0.205 χ^2/NDF : 3562.9/35

All: 69.714 $\pm$ 0.146 χ^2/NDF : 7327.8/66

reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.248 ± 0.363 χ^2/NDF : 319.6/15

Left Out: 7.693 ± 0.206 χ^2/NDF : 606.9/16

Right Out: 0.840 ± 0.372 χ^2/NDF : 256.2/18

Left In: 8.145 ± 0.219 χ^2/NDF : 470.3/14

Left: 7.905 ± 0.150 χ^2/NDF : 1079.4/31

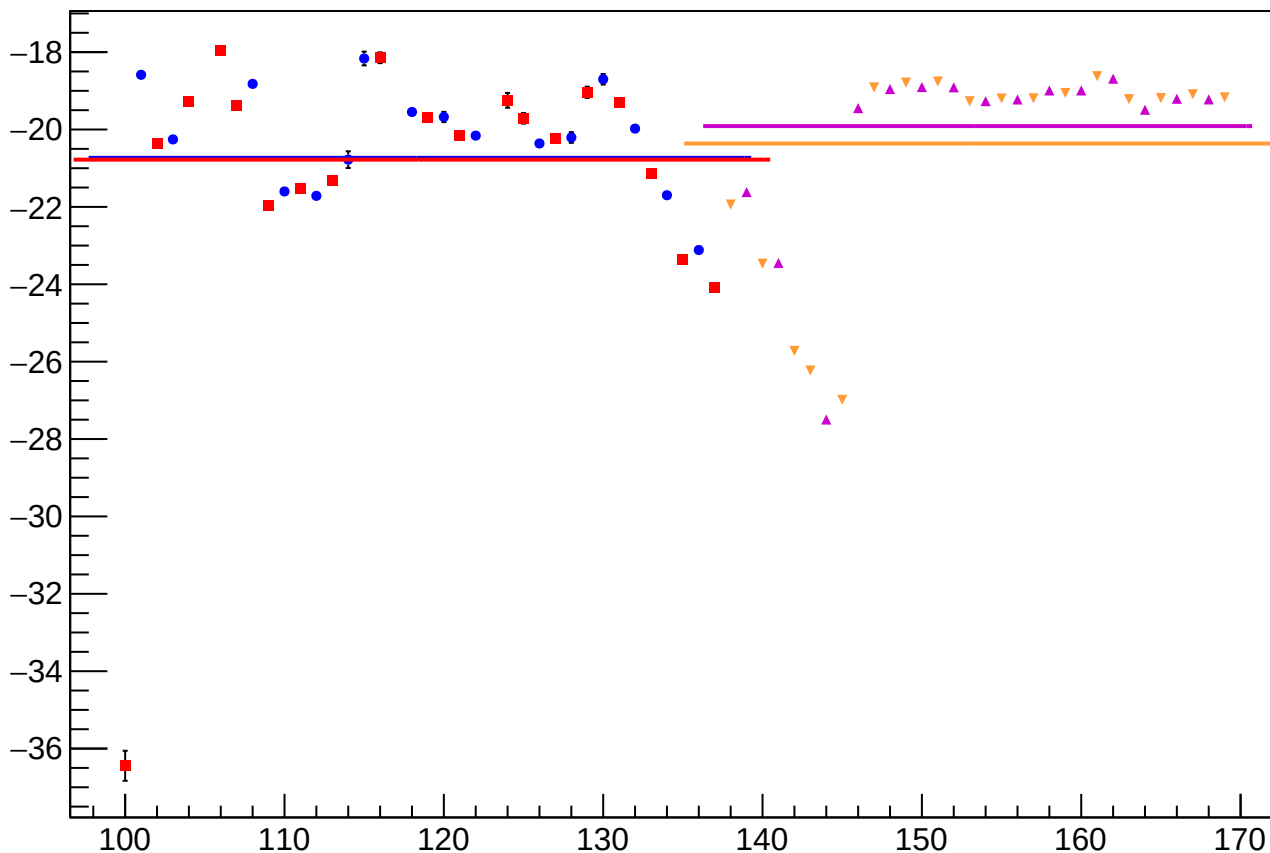
Right: 1.561 ± 0.260 χ^2/NDF : 583.2/34

In: 6.572 ± 0.188 χ^2/NDF : 983.3/30

Out: 6.082 ± 0.180 χ^2/NDF : 1122.6/35

All: 6.317 ± 0.130 χ^2/NDF : 2109.4/66

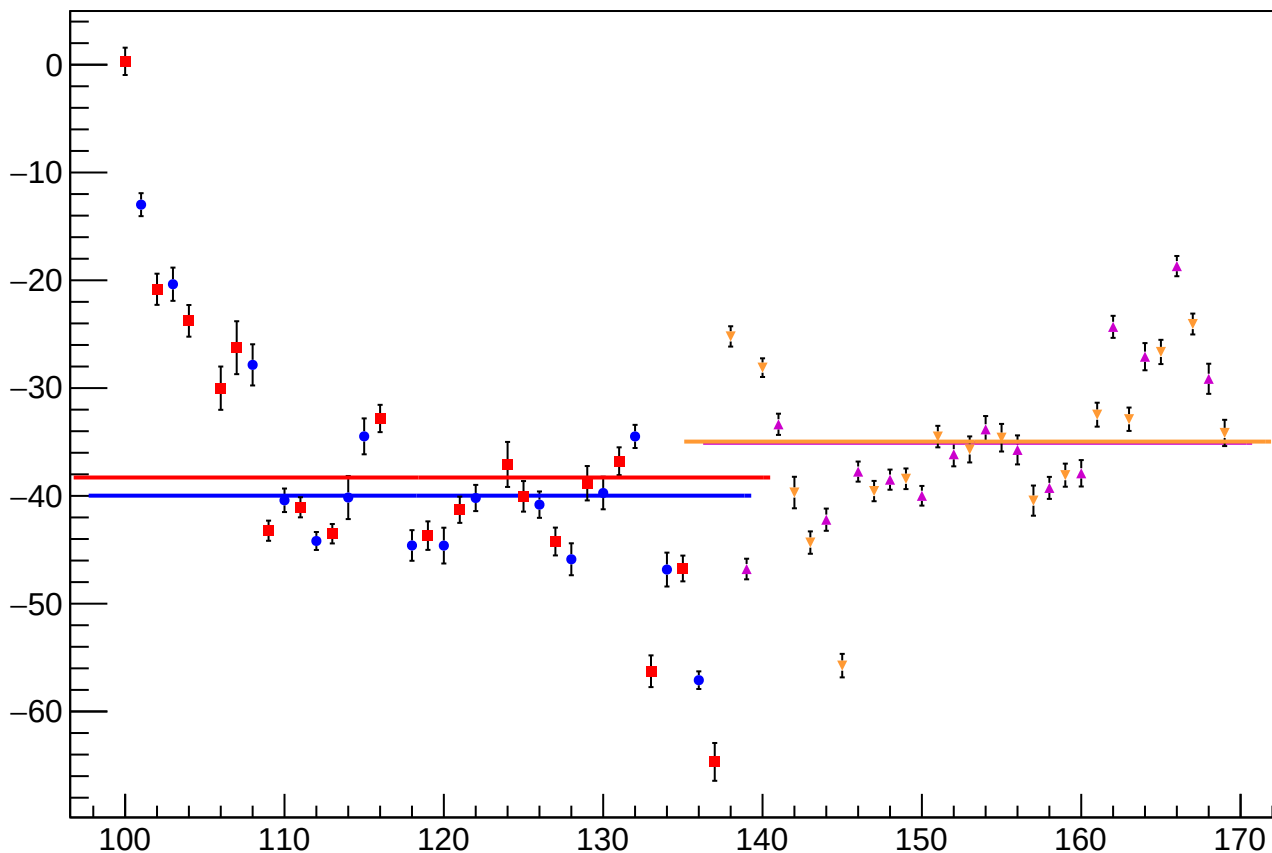
reg_asym_right_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.732 ± 0.019 $\chi^2/\text{NDF}: 7634.1/15$
 Left Out: -20.362 ± 0.010 $\chi^2/\text{NDF}: 70477.0/16$
 Right Out: -20.778 ± 0.020 $\chi^2/\text{NDF}: 9426.6/18$
 Left In: -19.911 ± 0.010 $\chi^2/\text{NDF}: 41290.4/14$

Left: -20.145 ± 0.007 $\chi^2/\text{NDF}: 112816.9/31$
 Right: -20.755 ± 0.014 $\chi^2/\text{NDF}: 17063.4/34$
 In: -20.084 ± 0.009 $\chi^2/\text{NDF}: 50336.8/30$
 Out: -20.440 ± 0.009 $\chi^2/\text{NDF}: 80249.6/35$
 All: -20.265 ± 0.006 $\chi^2/\text{NDF}: 131403.8/66$

reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -39.979 ± 0.311 χ^2/NDF : 1398.4/15

Left Out: -34.963 ± 0.260 χ^2/NDF : 876.9/16

Right Out: -38.295 ± 0.299 χ^2/NDF : 1773.8/18

Left In: -35.074 ± 0.273 χ^2/NDF : 748.8/14

Left: -35.016 ± 0.188 χ^2/NDF : 1625.8/31

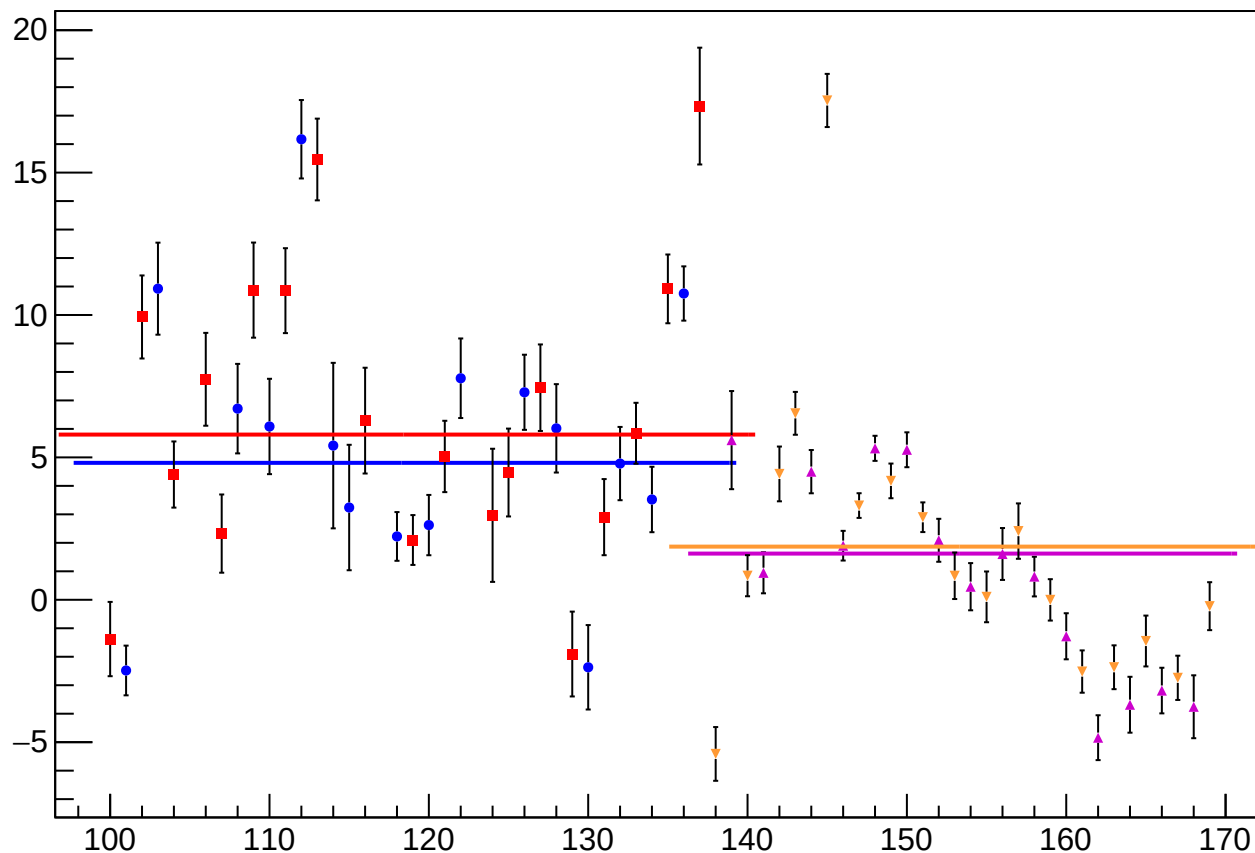
Right: -39.104 ± 0.216 χ^2/NDF : 3187.4/34

In: -37.208 ± 0.205 χ^2/NDF : 2287.7/30

Out: -36.397 ± 0.196 χ^2/NDF : 2721.4/35

All: -36.785 ± 0.142 χ^2/NDF : 5017.2/66

reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.808 ± 0.316 $\chi^2/\text{NDF}: 240.5/15$

Left Out: 1.867 ± 0.176 $\chi^2/\text{NDF}: 551.0/16$

Right Out: 5.801 ± 0.315 $\chi^2/\text{NDF}: 216.4/18$

Left In: 1.622 ± 0.187 $\chi^2/\text{NDF}: 299.7/14$

Left: 1.752 ± 0.128 $\chi^2/\text{NDF}: 851.6/31$

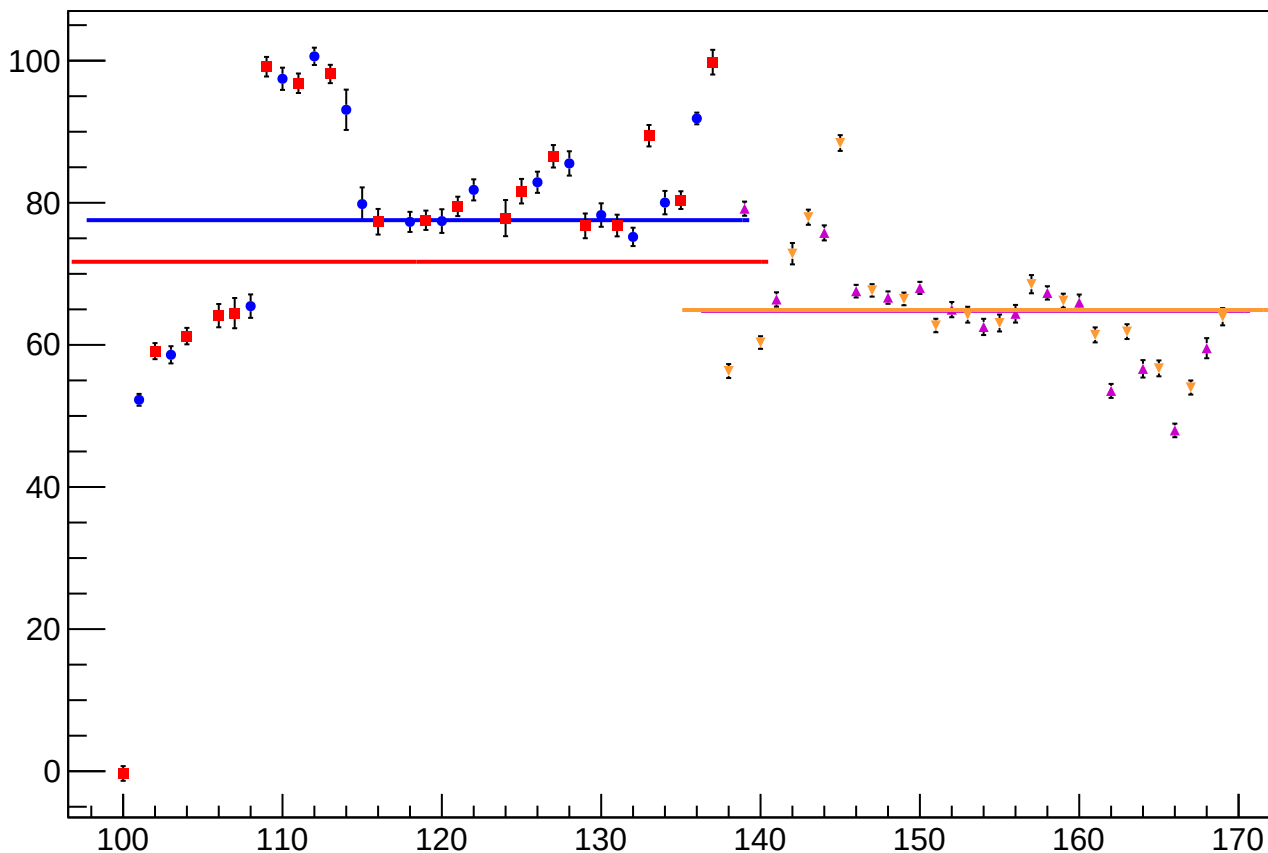
Right: 5.307 ± 0.223 $\chi^2/\text{NDF}: 461.9/34$

In: 2.448 ± 0.161 $\chi^2/\text{NDF}: 615.3/30$

Out: 2.803 ± 0.154 $\chi^2/\text{NDF}: 886.3/35$

All: 2.634 ± 0.111 $\chi^2/\text{NDF}: 1504.2/66$

reg_asym_right_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 77.554+/-0.337 χ^2 /NDF: 2118.3/15

Left Out: 64.910+/-0.254 χ^2 /NDF:954.0/16

Right Out: 71.699+/-0.330 χ^2 /NDF: 6903.5/18

Left In: 64.791+/-0.265 χ^2 /NDF:856.3/14

Left: 64.853+/-0.183 χ^2 /NDF: 1810.5/31

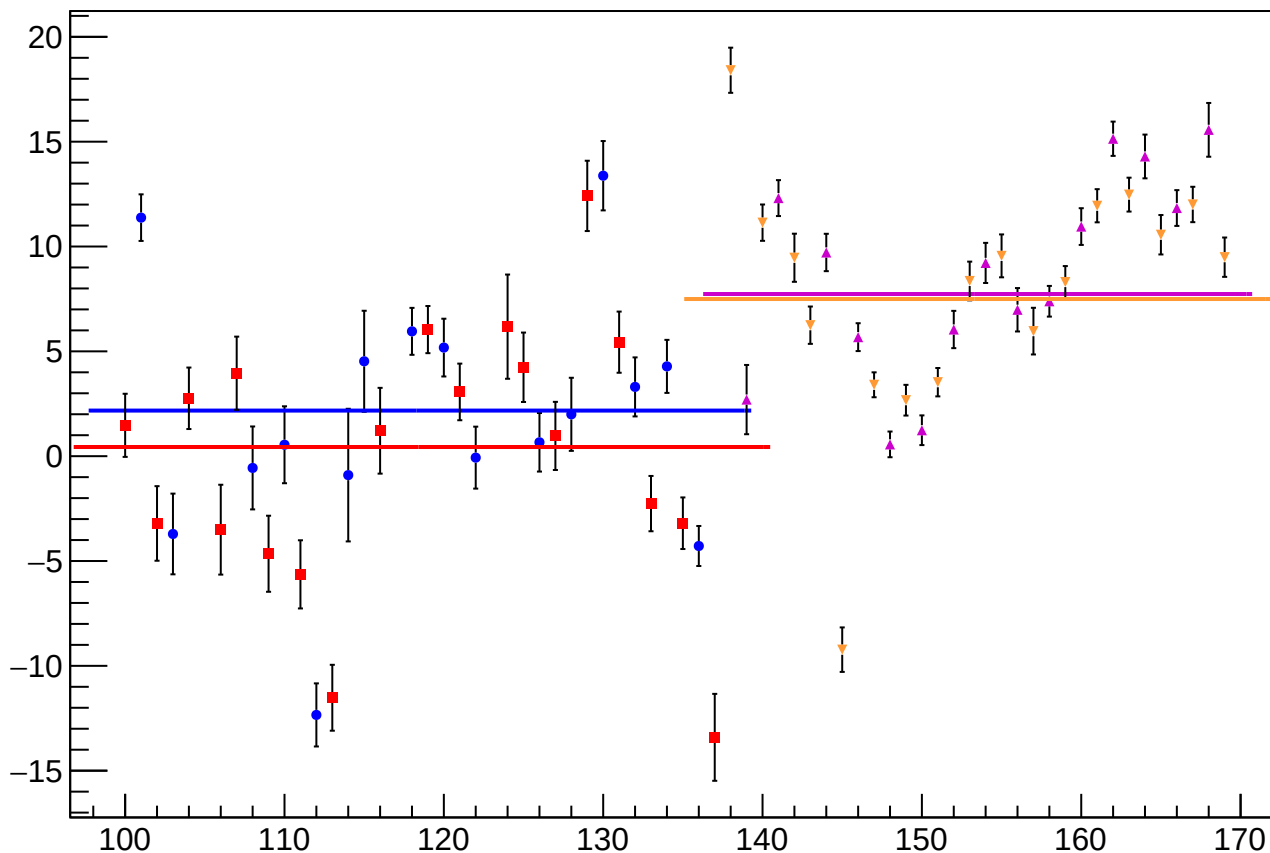
Right: 74.565+/-0.236 χ^2 /NDF: 9175.5/34

In: 69.651+/-0.208 χ^2 /NDF:3860.7/30

Out: 67.430+/-0.201 χ^2 /NDF:8123.0/35

All: 68.503+/-0.145 χ^2 /NDF: 12042.5/66

reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 2.175 ± 0.364 χ^2/NDF : 290.3/15

Left Out: 7.496 ± 0.207 χ^2/NDF : 620.2/16

Right Out: 0.438 ± 0.362 χ^2/NDF : 254.1/18

Left In: 7.735 ± 0.219 χ^2/NDF : 475.7/14

Left: 7.608 ± 0.150 χ^2/NDF : 1096.5/31

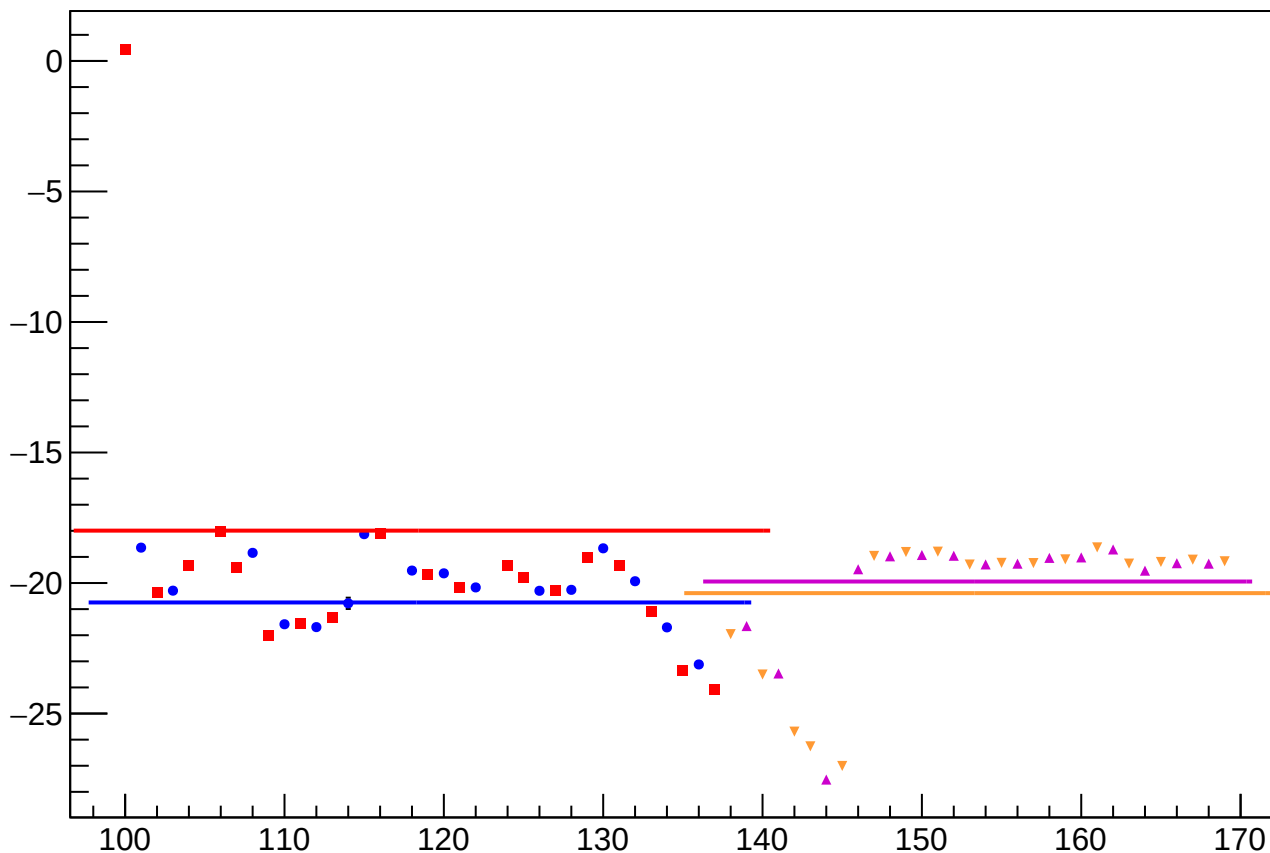
Right: 1.302 ± 0.257 χ^2/NDF : 555.9/34

In: 6.250 ± 0.188 χ^2/NDF : 937.3/30

Out: 5.762 ± 0.179 χ^2/NDF : 1161.2/35

All: 5.995 ± 0.130 χ^2/NDF : 2102.1/66

reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.745 ± 0.019 $\chi^2/\text{NDF}: 7513.6/15$

Left Out: -20.387 ± 0.010 $\chi^2/\text{NDF}: 70086.9/16$

Right Out: -17.993 ± 0.019 $\chi^2/\text{NDF}: 150579.1/18$

Left In: -19.942 ± 0.010 $\chi^2/\text{NDF}: 41104.5/14$

Left: -20.173 ± 0.007 $\chi^2/\text{NDF}: 112210.5/31$

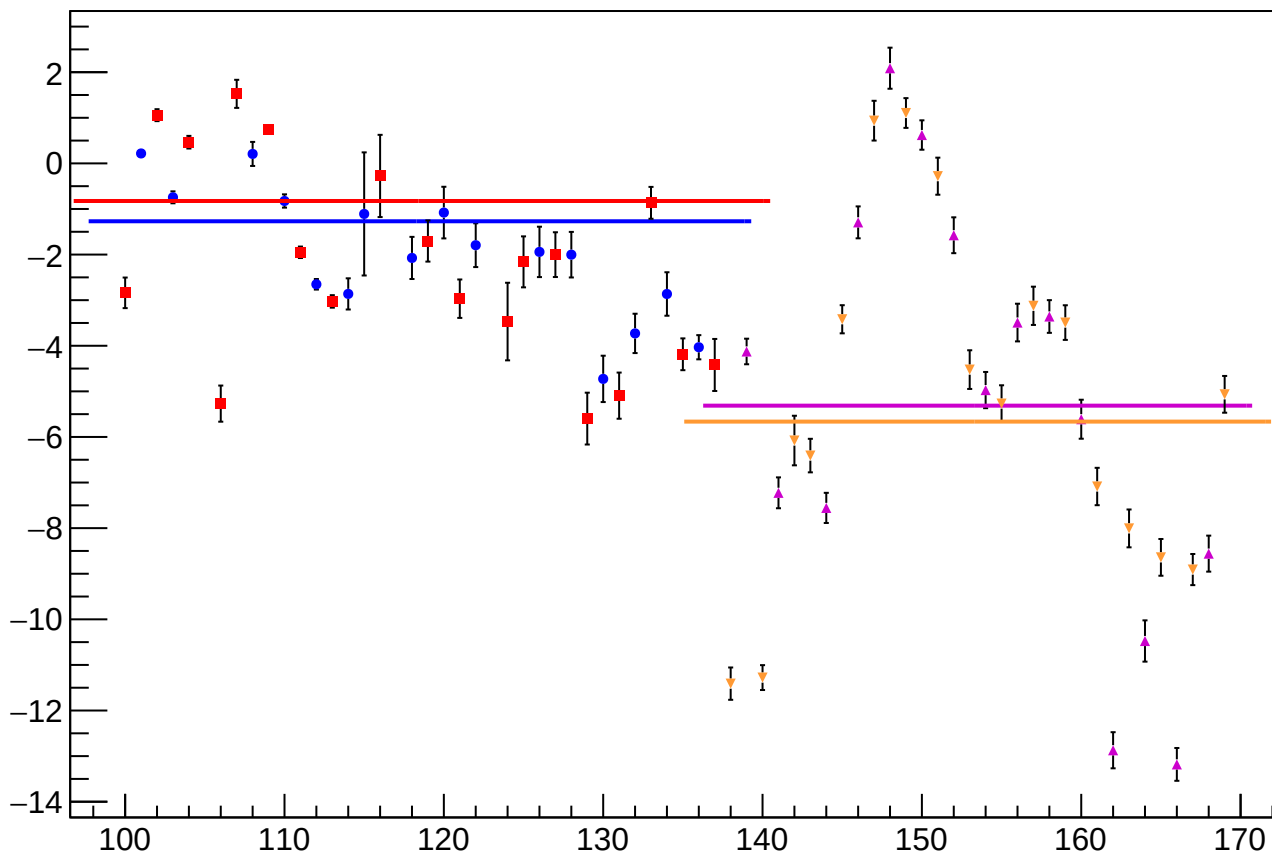
Right: -19.328 ± 0.014 $\chi^2/\text{NDF}: 168397.6/34$

In: -20.111 ± 0.009 $\chi^2/\text{NDF}: 49961.6/30$

Out: -19.889 ± 0.009 $\chi^2/\text{NDF}: 233403.9/35$

All: -19.996 ± 0.006 $\chi^2/\text{NDF}: 283686.2/66$

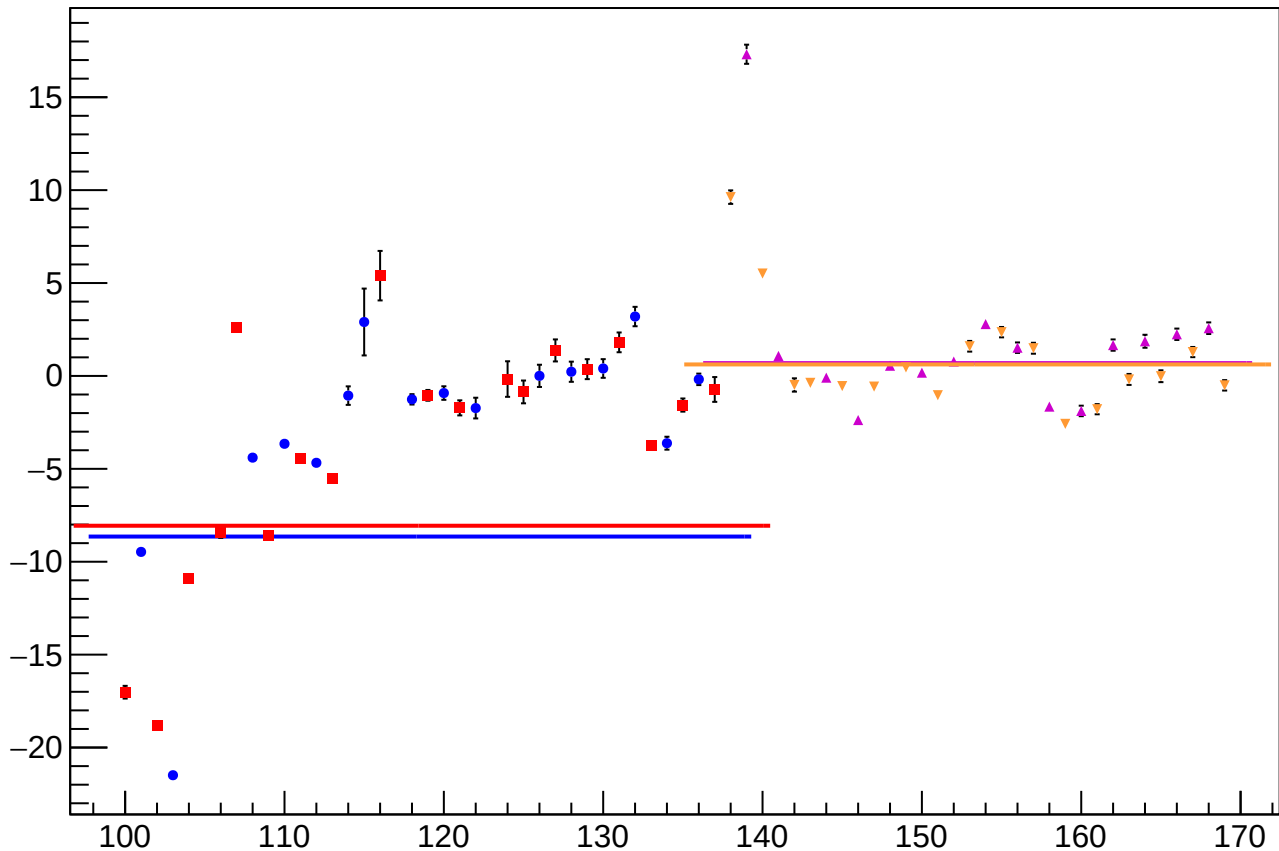
reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.270 $\pm$ 0.055 χ^2 /NDF: 616.5/15
 Left Out: -5.663 $\pm$ 0.091 χ^2 /NDF:1847.3/16
 Right Out: -0.825 $\pm$ 0.051 χ^2 /NDF: 1384.3/18
 Left In: -5.314 $\pm$ 0.095 χ^2 /NDF:2017.4/14

Left: -5.496 $\pm$ 0.066 χ^2 /NDF: 3871.8/31
 Right: -1.033 $\pm$ 0.037 χ^2 /NDF: 2036.2/34
 In: -2.270 $\pm$ 0.047 χ^2 /NDF:3995.0/30
 Out: -1.980 $\pm$ 0.045 χ^2 /NDF:5377.2/35
 All: -2.116 $\pm$ 0.032 χ^2 /NDF: 9392.1/66

reg_asym_sam_15_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -8.645 ± 0.057 χ^2/NDF : 13827.6/15

Left Out: 0.619 ± 0.064 χ^2/NDF : 1521.3/16

Right Out: -8.063 ± 0.058 χ^2/NDF : 14427.9/18

Left In: 0.690 ± 0.069 χ^2/NDF : 1594.9/14

Left: 0.652 ± 0.047 χ^2/NDF : 3116.8/31

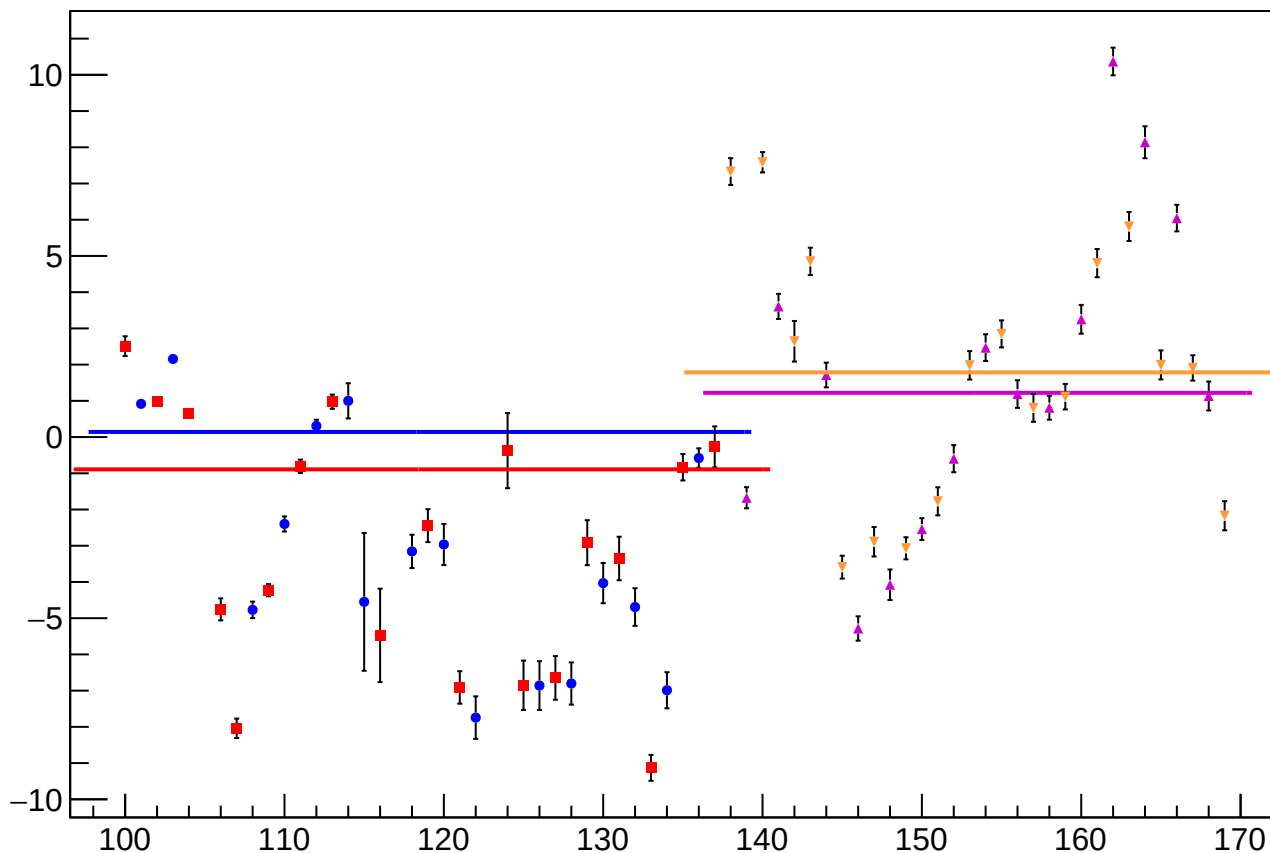
Right: -8.357 ± 0.040 χ^2/NDF : 28307.3/34

In: -4.855 ± 0.044 χ^2/NDF : 26335.5/30

Out: -4.209 ± 0.043 χ^2/NDF : 26068.3/35

All: -4.524 ± 0.031 χ^2/NDF : 52514.8/66

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.141 ± 0.053 χ^2/NDF : 1959.8/15

Left Out: 1.786 ± 0.089 χ^2/NDF : 1756.0/16

Right Out: -0.891 ± 0.054 χ^2/NDF : 2985.7/18

Left In: 1.222 ± 0.093 χ^2/NDF : 1895.0/14

Left: 1.514 ± 0.064 χ^2/NDF : 3670.3/31

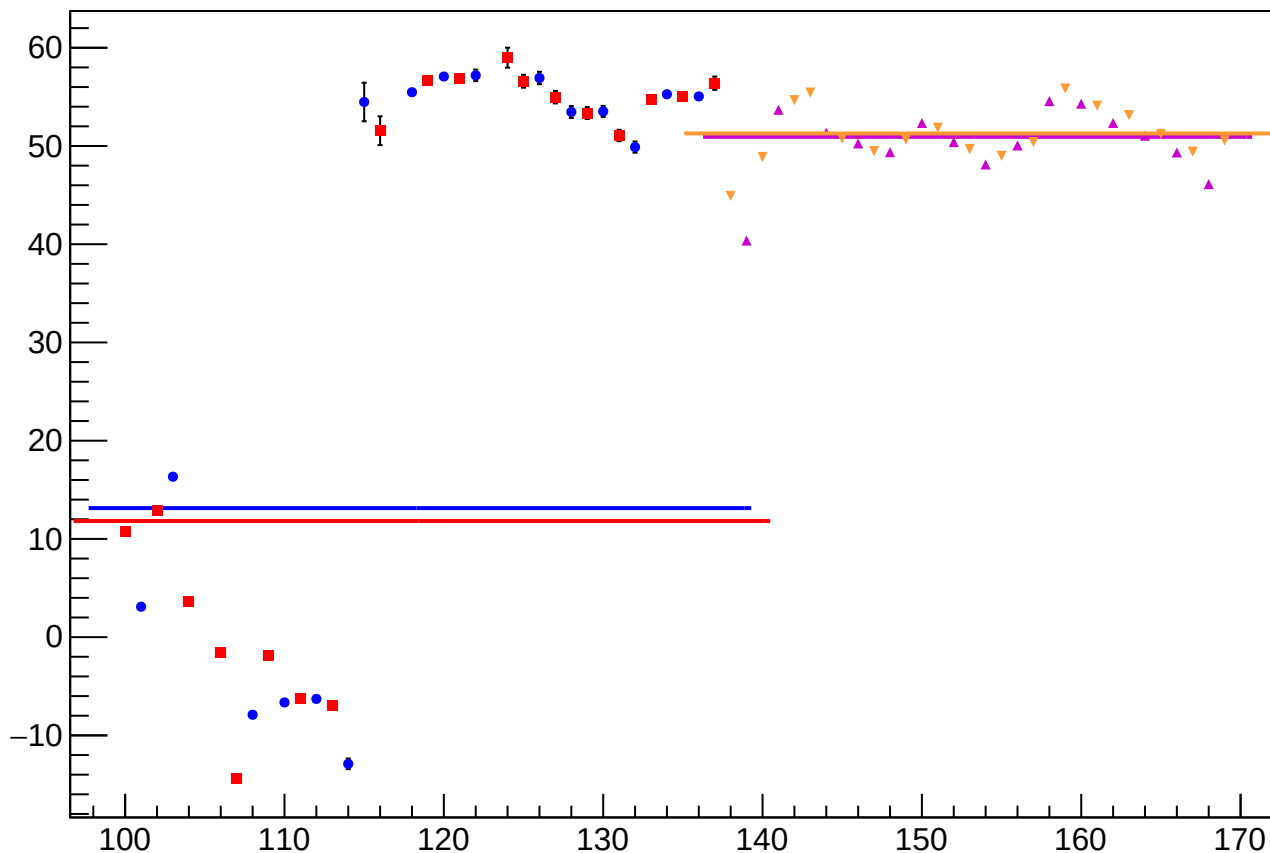
Right: -0.368 ± 0.038 χ^2/NDF : 5133.2/34

In: 0.408 ± 0.046 χ^2/NDF : 3957.4/30

Out: -0.181 ± 0.046 χ^2/NDF : 5402.9/35

All: 0.113 ± 0.032 χ^2/NDF : 9442.4/66

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.136 $\pm$ 0.068 χ^2 /NDF: 108574.4/15

Left Out: 51.278 $\pm$ 0.074 χ^2 /NDF:1145.4/16

Right Out: 11.822 $\pm$ 0.068 χ^2 /NDF: 118168.5/18

Left In: 50.930 $\pm$ 0.079 χ^2 /NDF:1243.7/14

Left: 51.115 $\pm$ 0.054 χ^2 /NDF: 2399.3/31

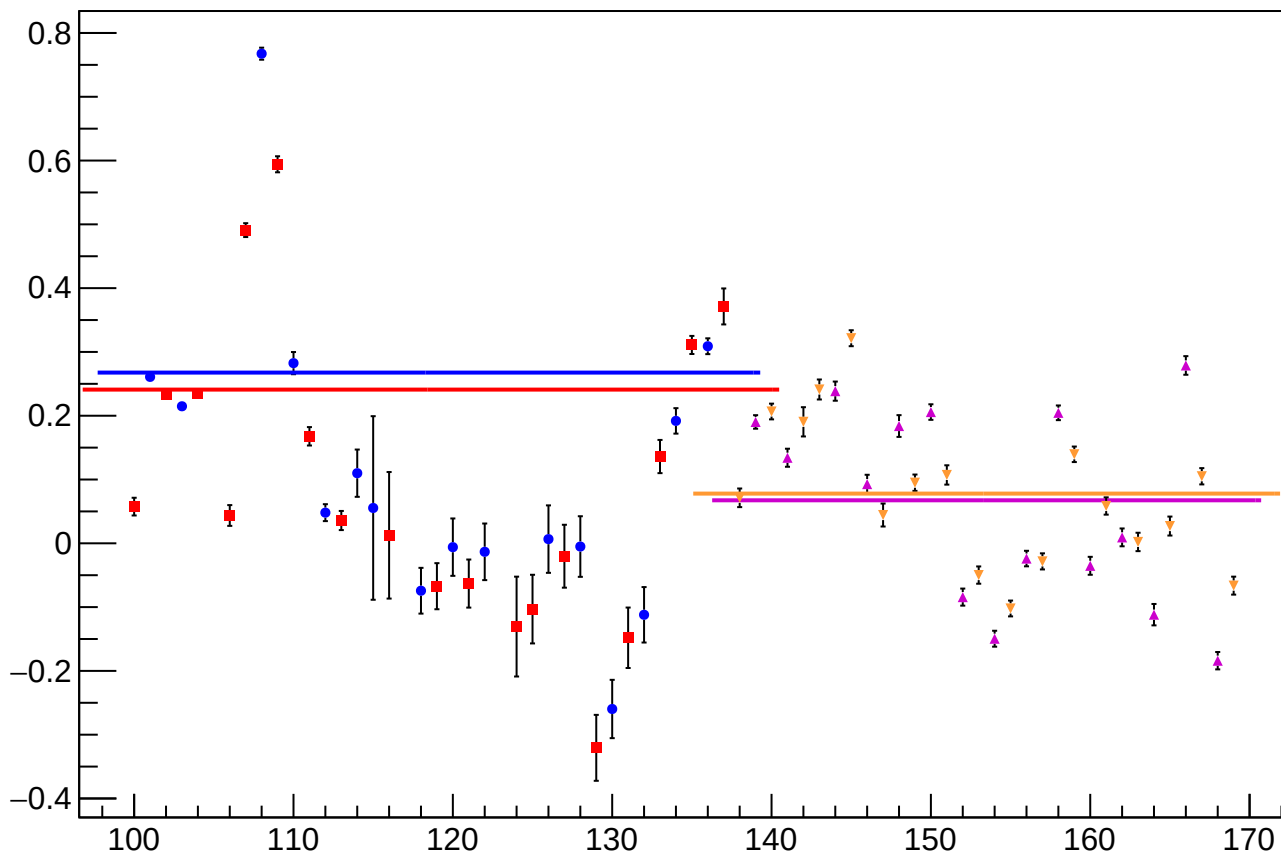
Right: 12.478 $\pm$ 0.048 χ^2 /NDF: 226930.1/34

In: 29.183 $\pm$ 0.052 χ^2 /NDF:241194.4/30

Out: 29.755 $\pm$ 0.050 χ^2 /NDF:273018.3/35

All: 29.477 $\pm$ 0.036 χ^2 /NDF: 514276.1/66

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.268 $\pm$ 0.003 χ^2 /NDF: 3720.4/15

Left Out: 0.078 $\pm$ 0.003 χ^2 /NDF:1177.1/16

Right Out: 0.241 $\pm$ 0.003 χ^2 /NDF: 2339.2/18

Left In: 0.067 $\pm$ 0.003 χ^2 /NDF:1830.0/14

Left: 0.073 $\pm$ 0.002 χ^2 /NDF: 3011.8/31

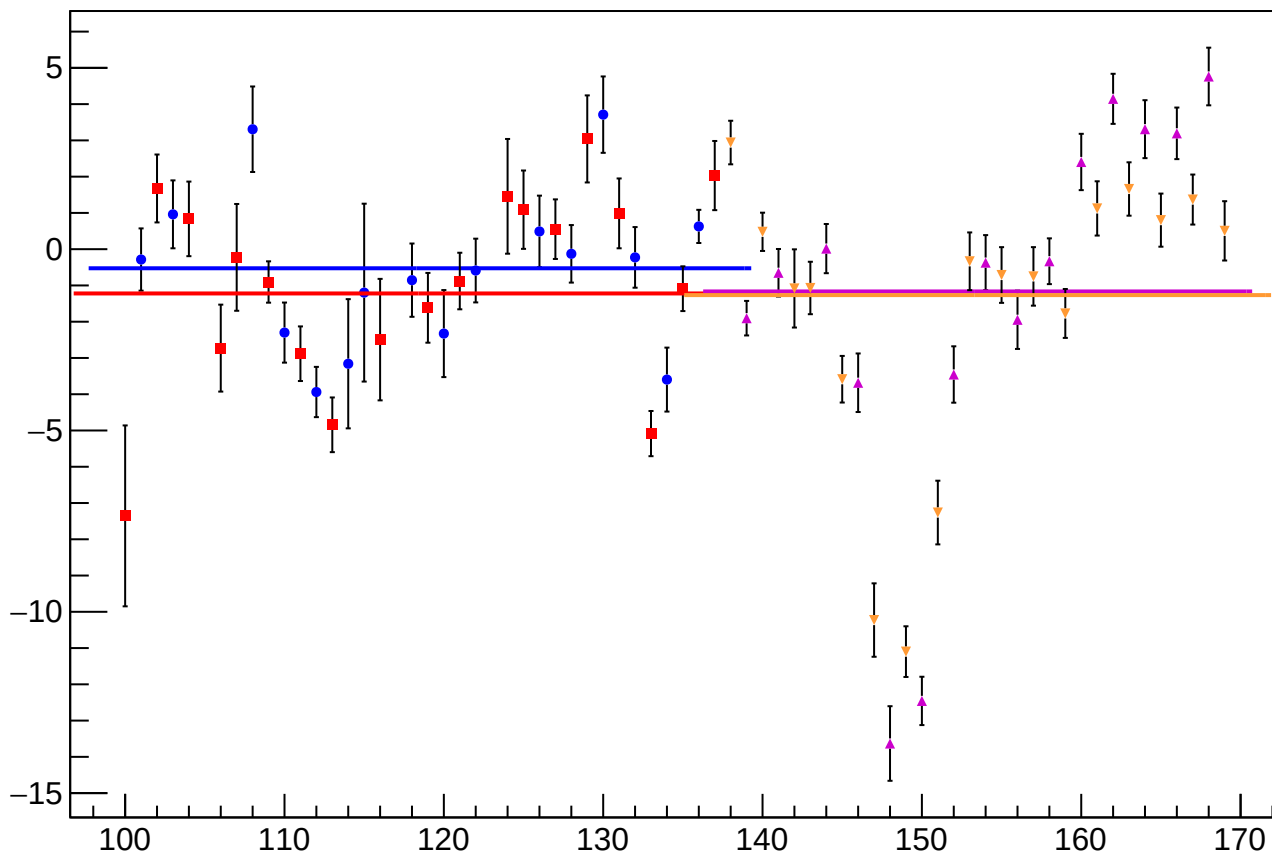
Right: 0.254 $\pm$ 0.002 χ^2 /NDF: 6105.9/34

In: 0.189 $\pm$ 0.002 χ^2 /NDF:7575.0/30

Out: 0.176 $\pm$ 0.002 χ^2 /NDF:4923.8/35

All: 0.182 $\pm$ 0.002 χ^2 /NDF: 12516.8/66

reg_asym_sam_15_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.527 ± 0.217 $\chi^2/\text{NDF}: 82.7/15$

Left Out: -1.266 ± 0.177 $\chi^2/\text{NDF}: 452.1/16$

Right Out: -1.221 ± 0.205 $\chi^2/\text{NDF}: 130.9/18$

Left In: -1.166 ± 0.183 $\chi^2/\text{NDF}: 667.2/14$

Left: -1.218 ± 0.127 $\chi^2/\text{NDF}: 1119.5/31$

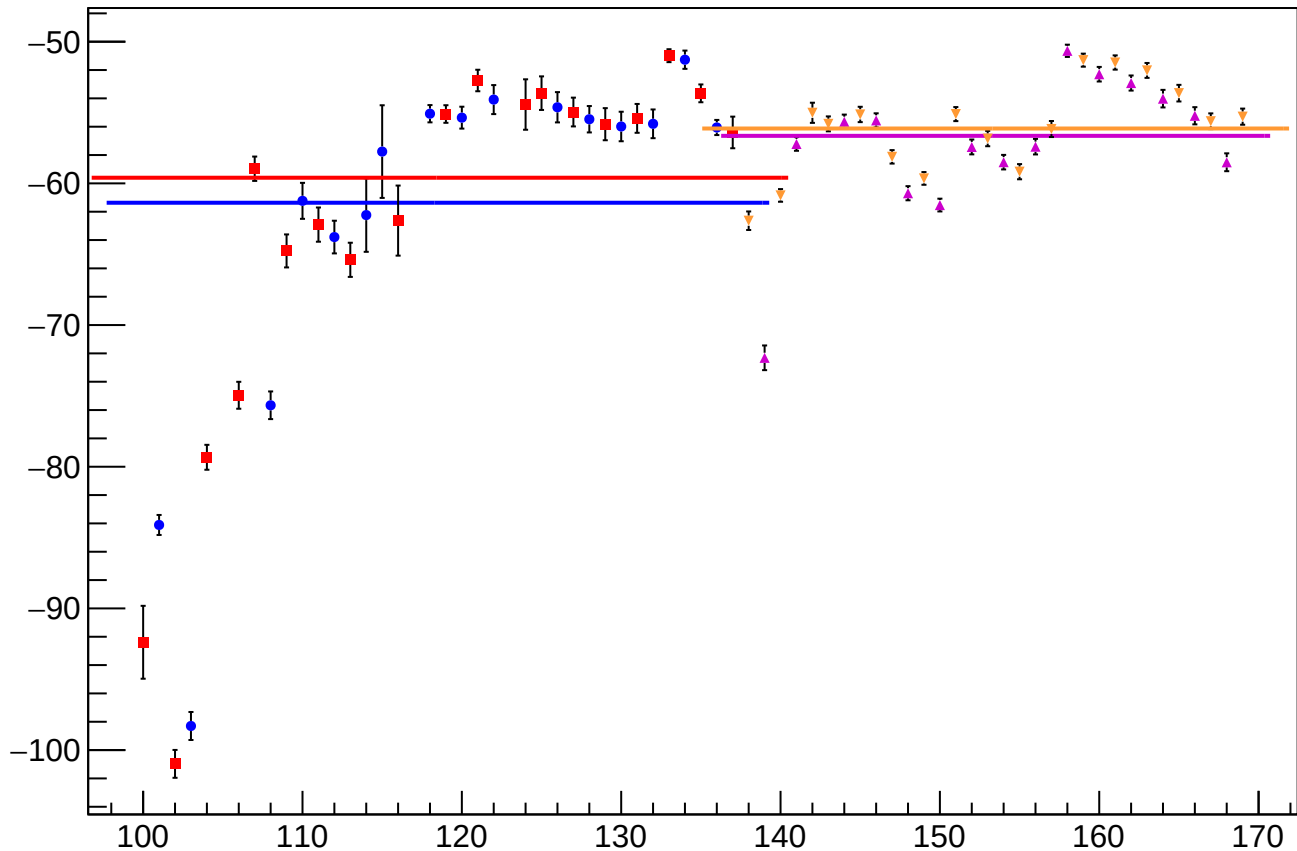
Right: -0.894 ± 0.149 $\chi^2/\text{NDF}: 219.1/34$

In: -0.901 ± 0.140 $\chi^2/\text{NDF}: 755.0/30$

Out: -1.247 ± 0.134 $\chi^2/\text{NDF}: 583.1/35$

All: -1.081 ± 0.097 $\chi^2/\text{NDF}: 1341.3/66$

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -61.367 ± 0.219 χ^2/NDF : 3351.2/15

Left Out: -56.127 ± 0.128 χ^2/NDF : 612.0/16

Right Out: -59.601 ± 0.207 χ^2/NDF : 3421.3/18

Left In: -56.645 ± 0.137 χ^2/NDF : 878.8/14

Left: -56.369 ± 0.093 χ^2/NDF : 1498.5/31

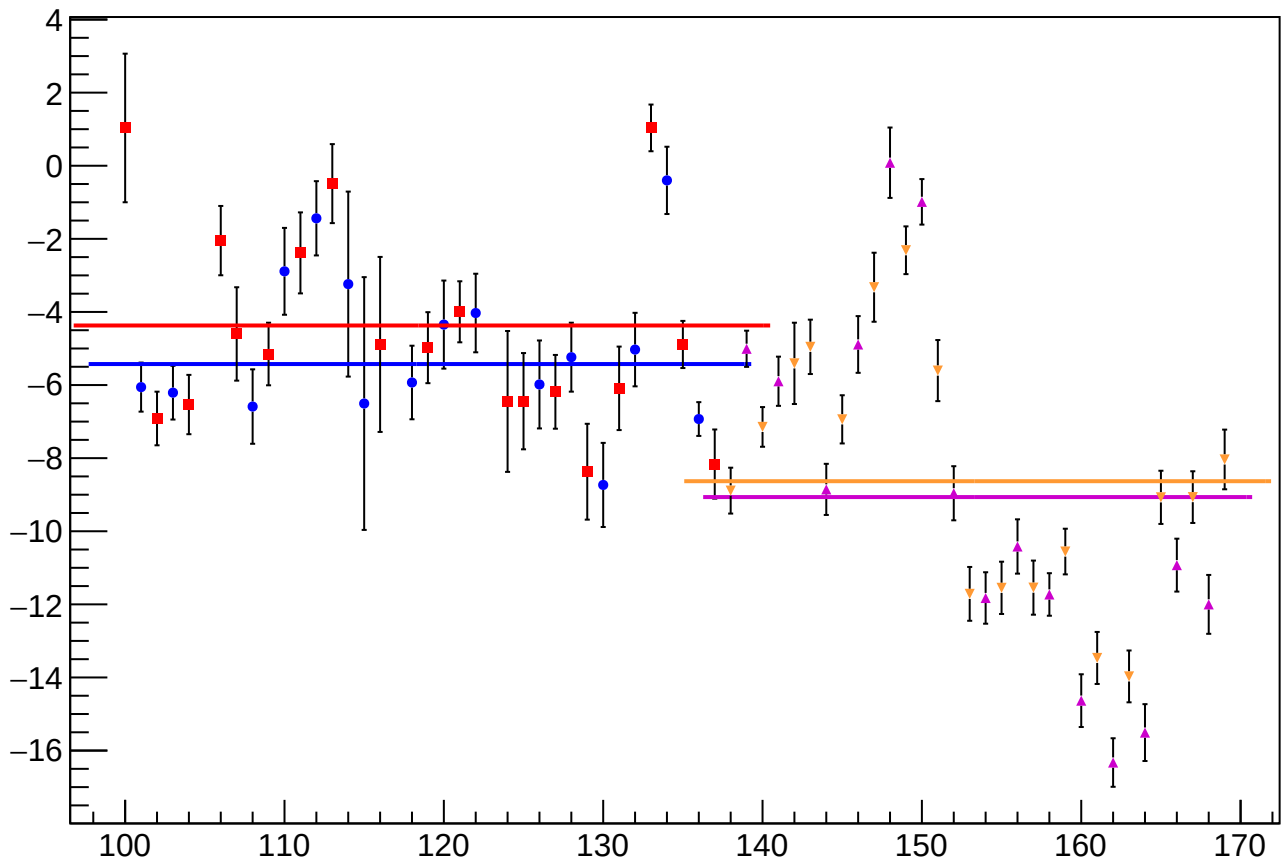
Right: -60.433 ± 0.150 χ^2/NDF : 6806.9/34

In: -57.966 ± 0.116 χ^2/NDF : 4564.8/30

Out: -57.087 ± 0.109 χ^2/NDF : 4237.9/35

All: -57.499 ± 0.079 χ^2/NDF : 8833.3/66

reg_asym_sam_15_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -5.425 ± 0.230 χ^2/NDF : 76.0/15

Left Out: -8.631 ± 0.173 χ^2/NDF : 348.7/16

Right Out: -4.371 ± 0.223 χ^2/NDF : 156.6/18

Left In: -9.065 ± 0.178 χ^2/NDF : 684.3/14

Left: -8.842 ± 0.124 χ^2/NDF : 1036.0/31

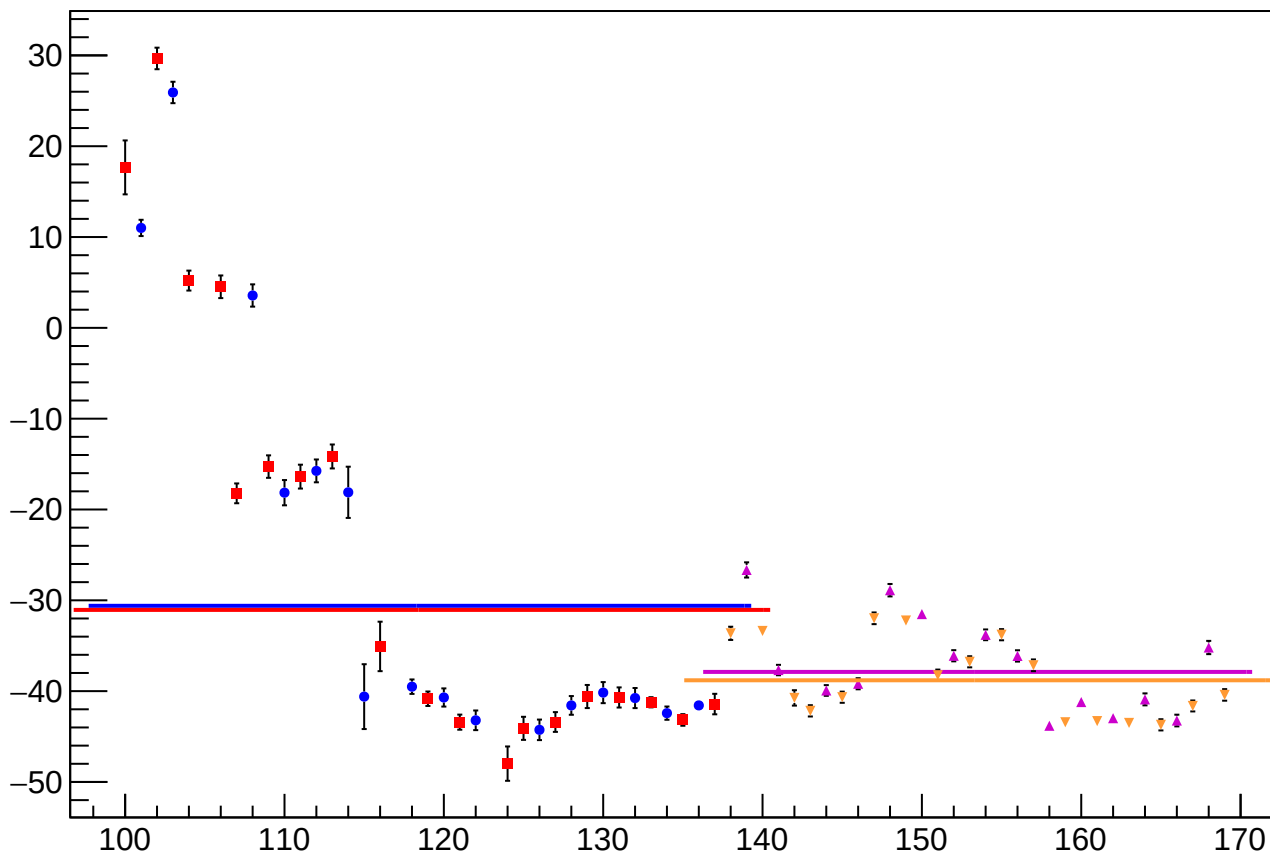
Right: -4.881 ± 0.160 χ^2/NDF : 243.4/34

In: -7.701 ± 0.141 χ^2/NDF : 916.9/30

Out: -7.022 ± 0.137 χ^2/NDF : 733.4/35

All: -7.351 ± 0.098 χ^2/NDF : 1662.2/66

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -30.605 ± 0.249 $\chi^2/\text{NDF}: 6938.0/15$

Left Out: -38.806 ± 0.146 $\chi^2/\text{NDF}: 870.3/16$

Right Out: -31.056 ± 0.238 $\chi^2/\text{NDF}: 6976.4/18$

Left In: -37.883 ± 0.155 $\chi^2/\text{NDF}: 977.8/14$

Left: -38.371 ± 0.106 $\chi^2/\text{NDF}: 1866.9/31$

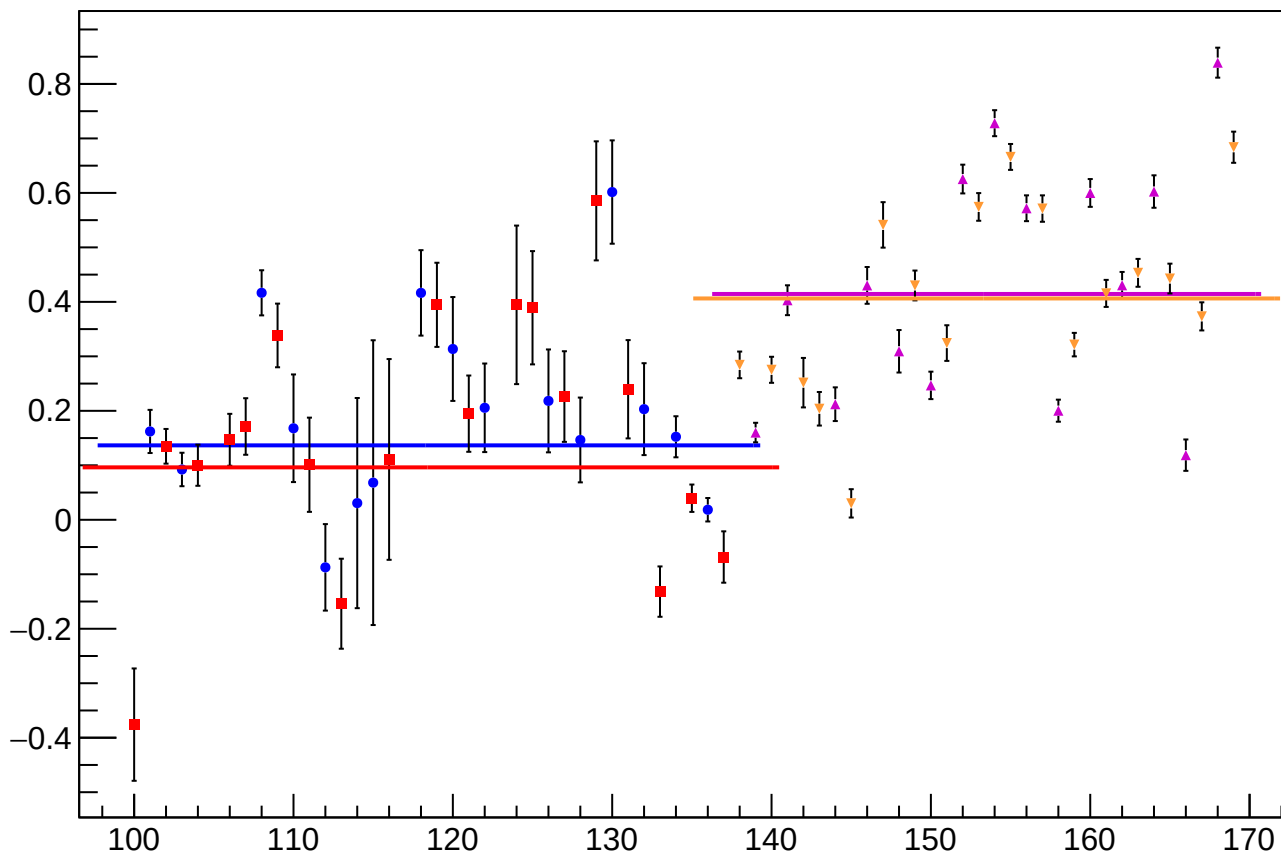
Right: -30.841 ± 0.172 $\chi^2/\text{NDF}: 13916.2/34$

In: -35.863 ± 0.131 $\chi^2/\text{NDF}: 8531.1/30$

Out: -36.688 ± 0.124 $\chi^2/\text{NDF}: 8618.7/35$

All: -36.298 ± 0.090 $\chi^2/\text{NDF}: 17170.6/66$

reg_asym_sam_15_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.137 ± 0.013 χ^2/NDF : 129.2/15

Left Out: 0.406 ± 0.007 χ^2/NDF : 662.0/16

Right Out: 0.096 ± 0.012 χ^2/NDF : 147.7/18

Left In: 0.415 ± 0.007 χ^2/NDF : 1125.2/14

Left: 0.410 ± 0.005 χ^2/NDF : 1787.9/31

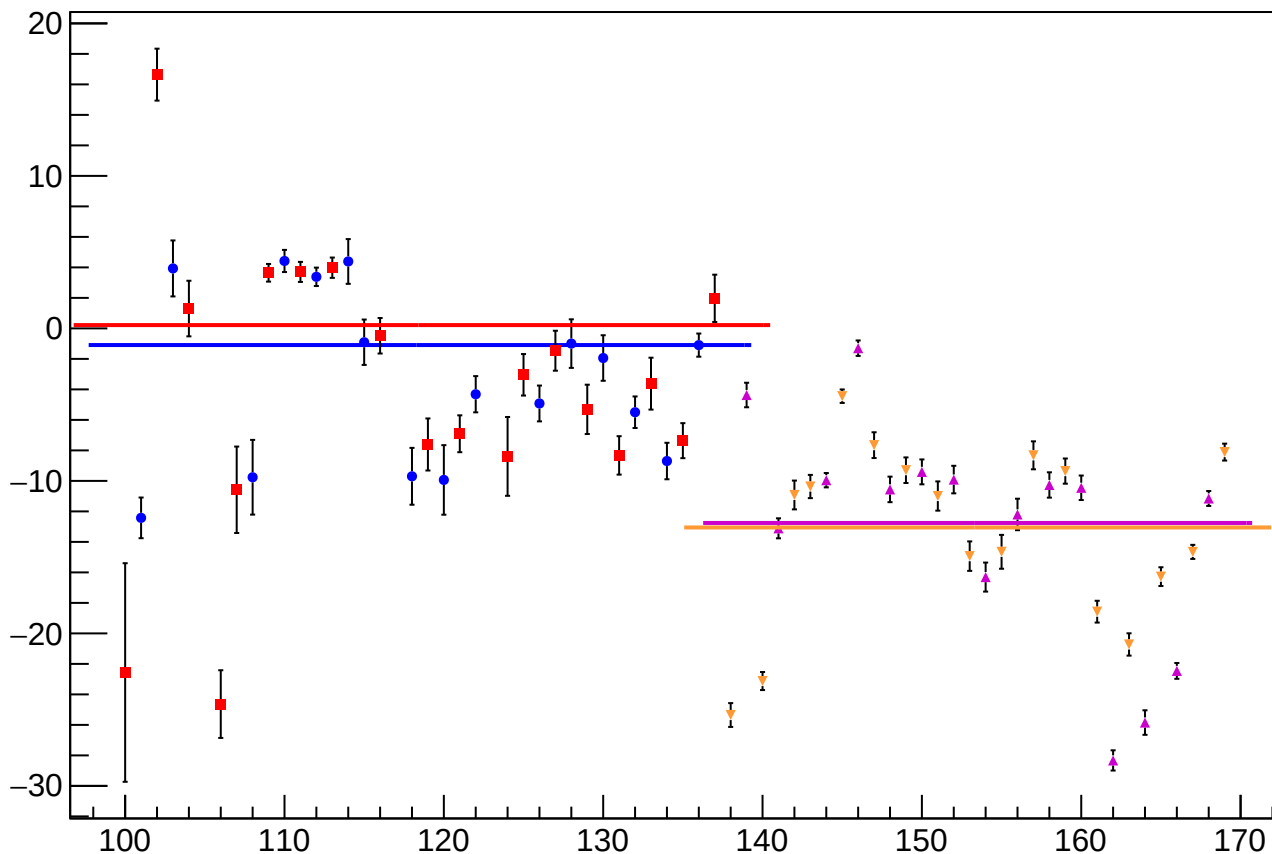
Right: 0.116 ± 0.009 χ^2/NDF : 282.3/34

In: 0.354 ± 0.006 χ^2/NDF : 1640.5/30

Out: 0.339 ± 0.006 χ^2/NDF : 1303.5/35

All: 0.346 ± 0.004 χ^2/NDF : 2947.3/66

reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.092 ± 0.281 χ^2/NDF : 332.0/15

Left Out: -13.054 ± 0.168 χ^2/NDF : 1340.8/16

Right Out: 0.216 ± 0.266 χ^2/NDF : 520.8/18

Left In: -12.758 ± 0.174 χ^2/NDF : 1897.0/14

Left: -12.911 ± 0.121 χ^2/NDF : 3239.3/31

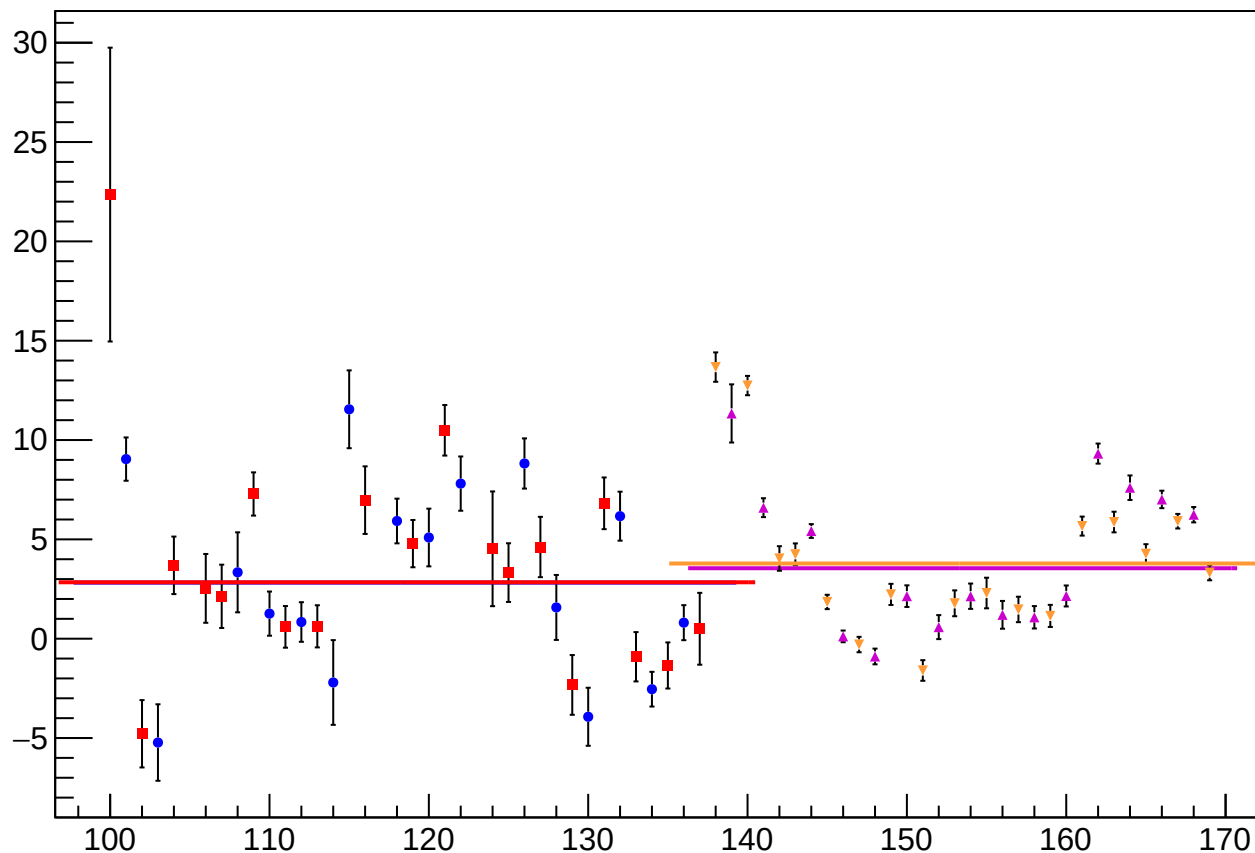
Right: -0.404 ± 0.193 χ^2/NDF : 864.2/34

In: -9.528 ± 0.148 χ^2/NDF : 3479.0/30

Out: -9.265 ± 0.142 χ^2/NDF : 3637.3/35

All: -9.391 ± 0.102 χ^2/NDF : 7118.0/66

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.823 ± 0.313 χ^2/NDF : 199.6/15

Left Out: 3.785 ± 0.120 χ^2/NDF : 890.8/16

Right Out: 2.840 ± 0.322 χ^2/NDF : 145.0/18

Left In: 3.547 ± 0.122 χ^2/NDF : 718.2/14

Left: 3.668 ± 0.085 χ^2/NDF : 1610.9/31

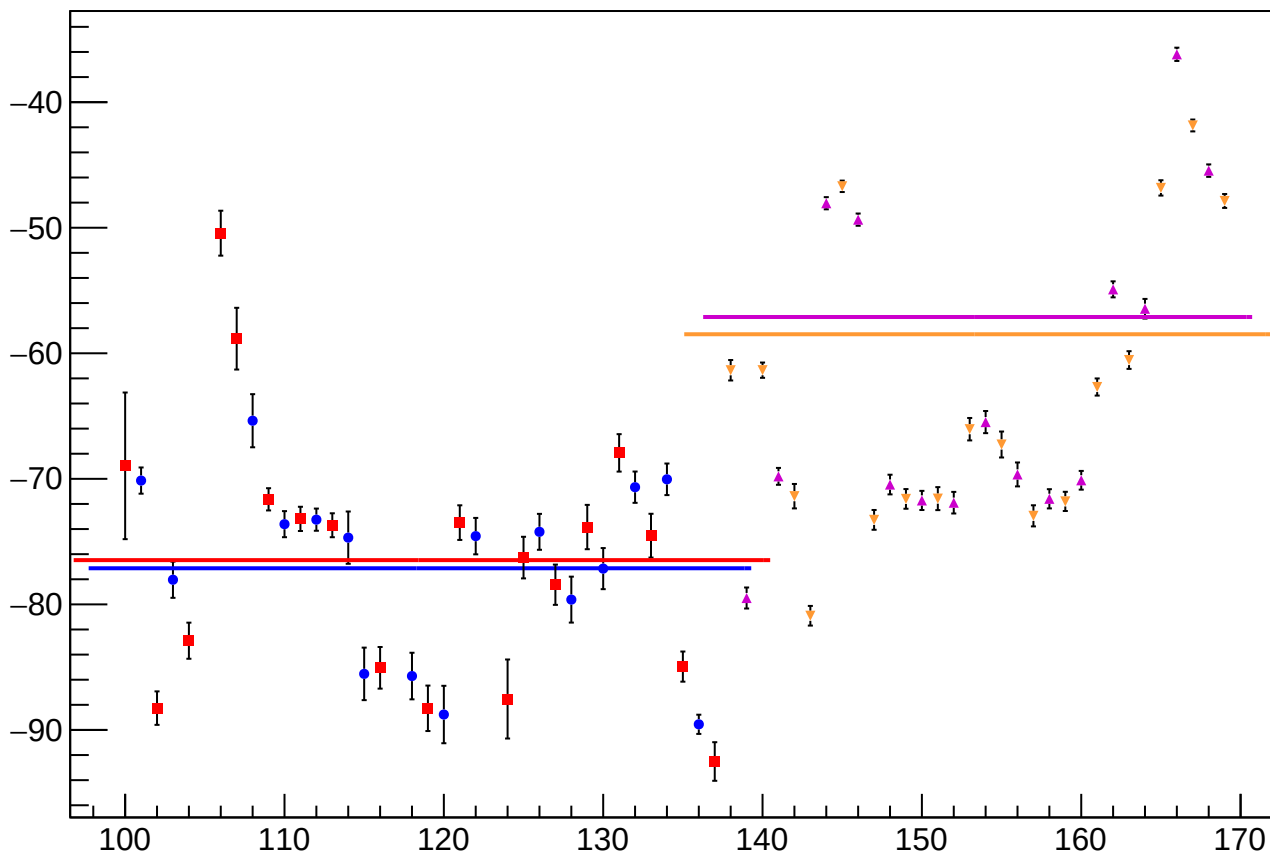
Right: 2.831 ± 0.225 χ^2/NDF : 344.5/34

In: 3.451 ± 0.114 χ^2/NDF : 922.4/30

Out: 3.670 ± 0.112 χ^2/NDF : 1043.3/35

All: 3.562 ± 0.080 χ^2/NDF : 1967.5/66

reg_asym_sam_37_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -77.123 ± 0.326 $\chi^2/\text{NDF}: 503.3/15$

Left Out: -58.484 ± 0.167 $\chi^2/\text{NDF}: 5292.0/16$

Right Out: -76.475 ± 0.328 $\chi^2/\text{NDF}: 695.8/18$

Left In: -57.110 ± 0.171 $\chi^2/\text{NDF}: 5676.9/14$

Left: -57.813 ± 0.119 $\chi^2/\text{NDF}: 11002.2/31$

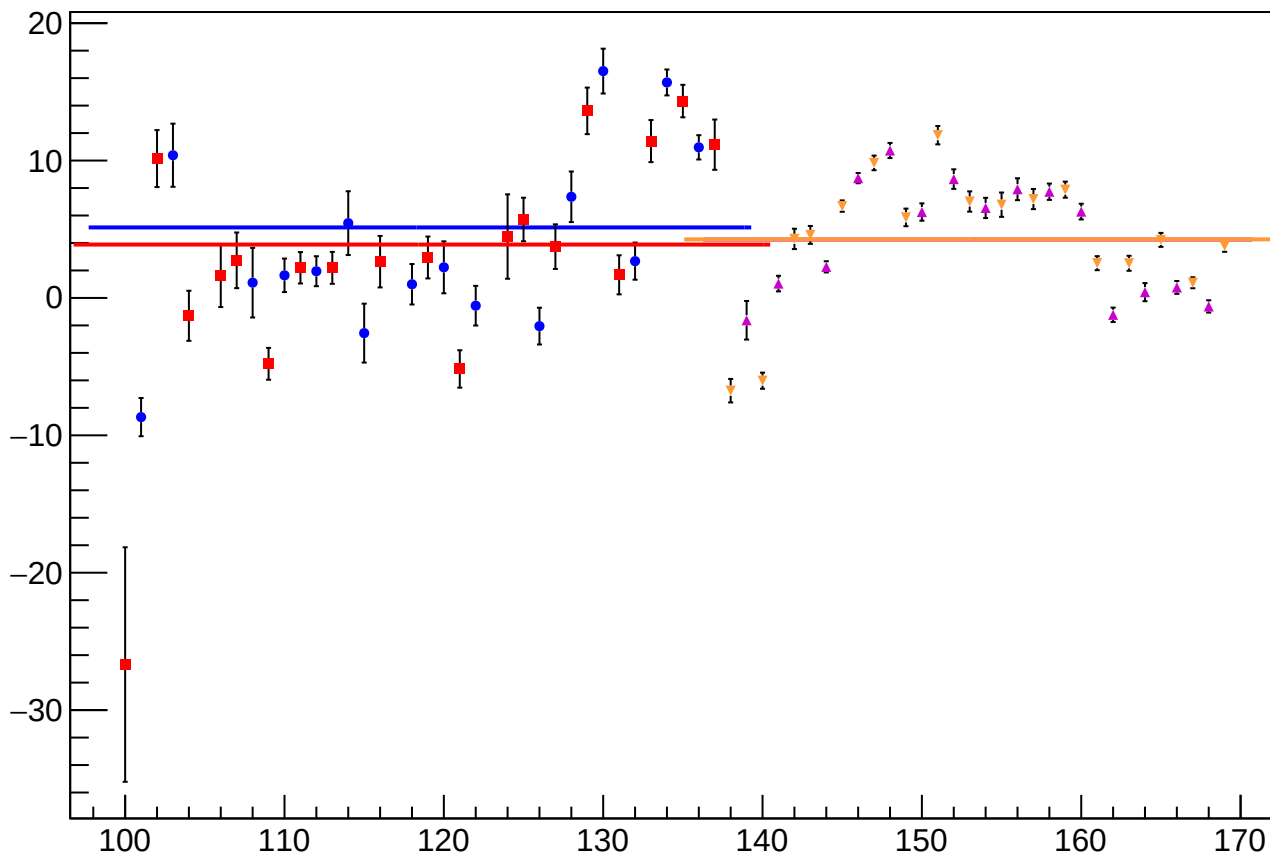
Right: -76.801 ± 0.231 $\chi^2/\text{NDF}: 1201.1/34$

In: -61.403 ± 0.151 $\chi^2/\text{NDF}: 9135.5/30$

Out: -62.165 ± 0.149 $\chi^2/\text{NDF}: 8373.7/35$

All: -61.790 ± 0.106 $\chi^2/\text{NDF}: 17522.1/66$

reg_asym_sam_37_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 5.132 ± 0.350 χ^2/NDF : 412.3/15

Left Out: 4.262 ± 0.137 χ^2/NDF : 913.1/16

Right Out: 3.885 ± 0.361 χ^2/NDF : 291.5/18

Left In: 4.249 ± 0.142 χ^2/NDF : 797.2/14

Left: 4.256 ± 0.099 χ^2/NDF : 1710.3/31

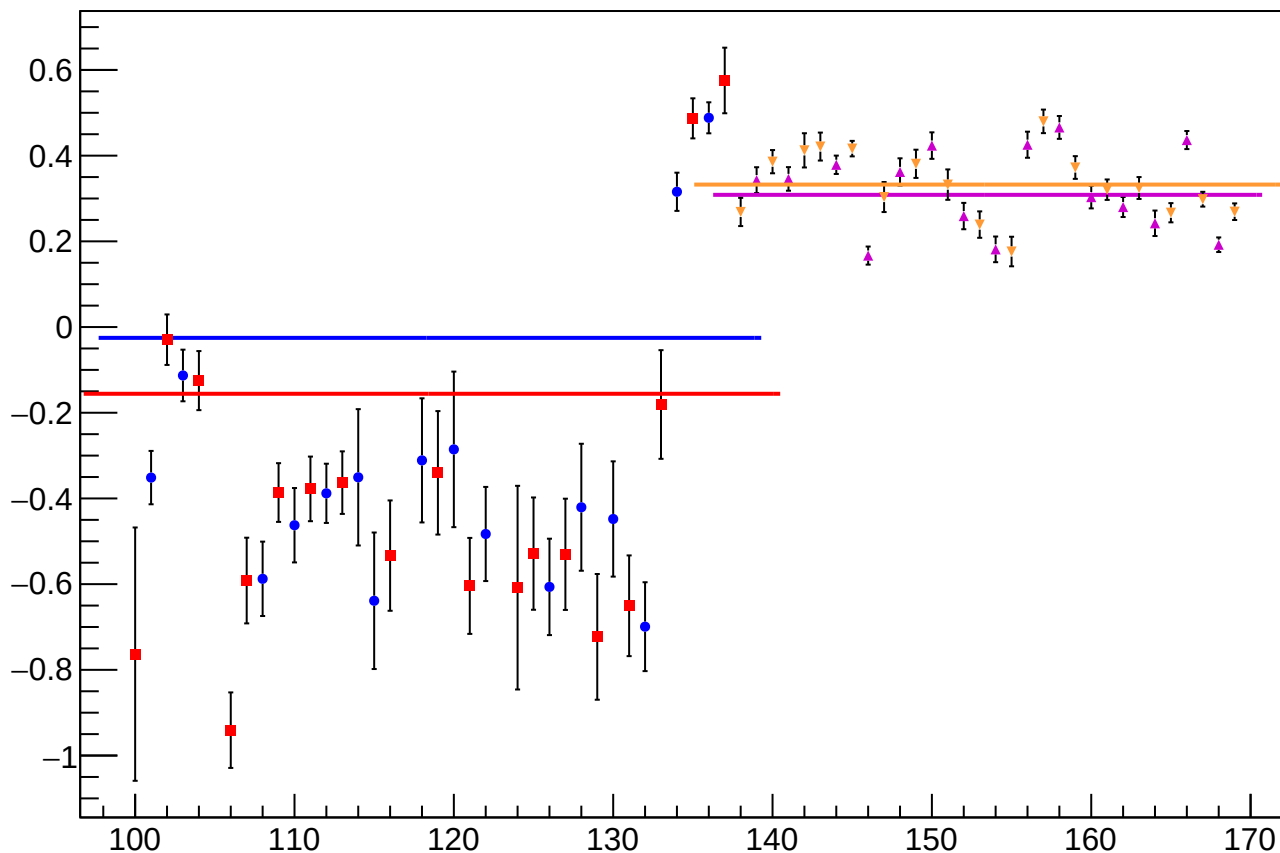
Right: 4.529 ± 0.251 χ^2/NDF : 710.0/34

In: 4.375 ± 0.132 χ^2/NDF : 1215.0/30

Out: 4.215 ± 0.128 χ^2/NDF : 1205.5/35

All: 4.293 ± 0.092 χ^2/NDF : 2421.3/66

reg_asym_sam_37_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.025 ± 0.019 χ^2/NDF : 512.5/15

Left Out: 0.332 ± 0.006 χ^2/NDF : 127.7/16

Right Out: -0.156 ± 0.020 χ^2/NDF : 494.9/18

Left In: 0.309 ± 0.007 χ^2/NDF : 235.8/14

Left: 0.321 ± 0.005 χ^2/NDF : 370.6/31

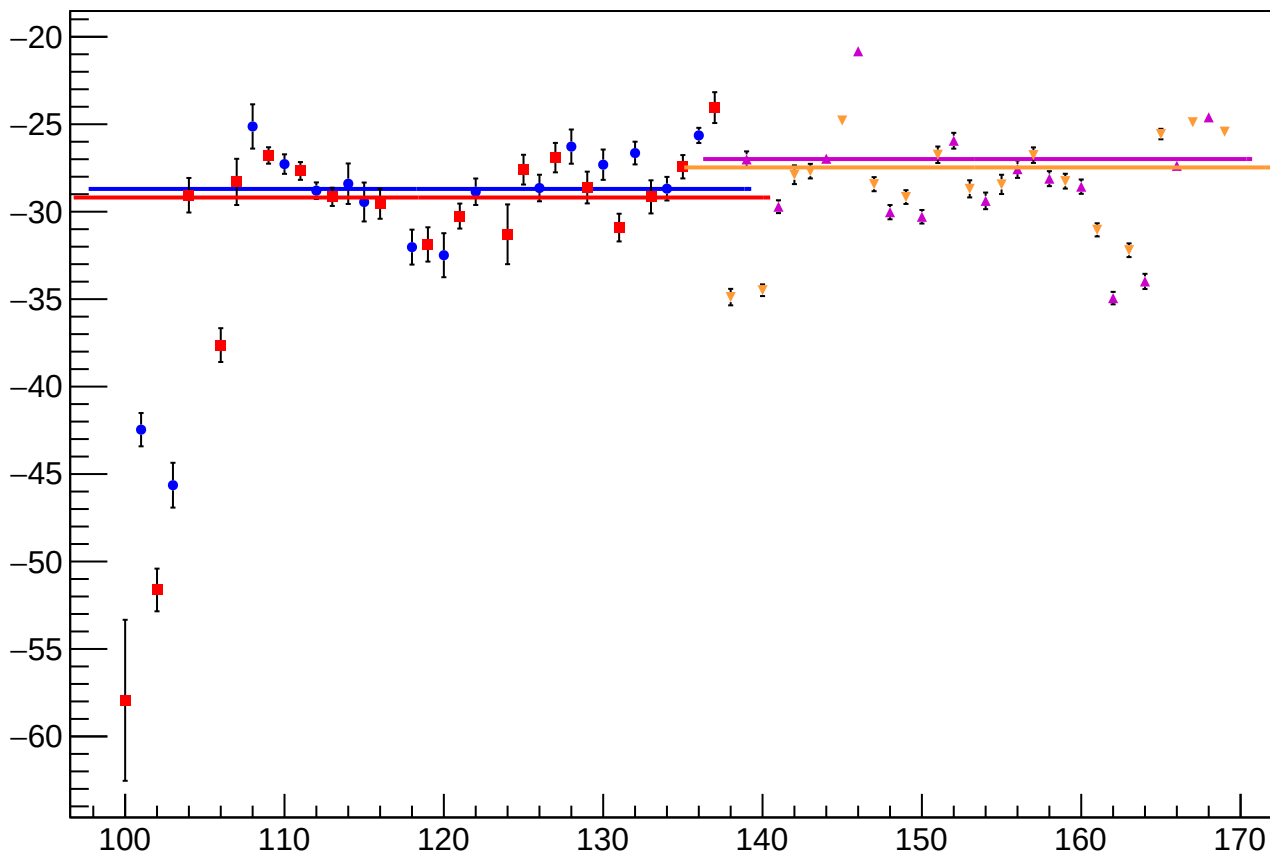
Right: -0.086 ± 0.014 χ^2/NDF : 1029.5/34

In: 0.273 ± 0.006 χ^2/NDF : 1026.0/30

Out: 0.290 ± 0.006 χ^2/NDF : 1154.8/35

All: 0.282 ± 0.004 χ^2/NDF : 2184.4/66

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -28.698 ± 0.186 $\chi^2/\text{NDF}: 487.3/15$

Left Out: -27.470 ± 0.083 $\chi^2/\text{NDF}: 1397.6/16$

Right Out: -29.189 ± 0.181 $\chi^2/\text{NDF}: 557.3/18$

Left In: -26.990 ± 0.084 $\chi^2/\text{NDF}: 1996.0/14$

Left: -27.232 ± 0.059 $\chi^2/\text{NDF}: 3410.2/31$

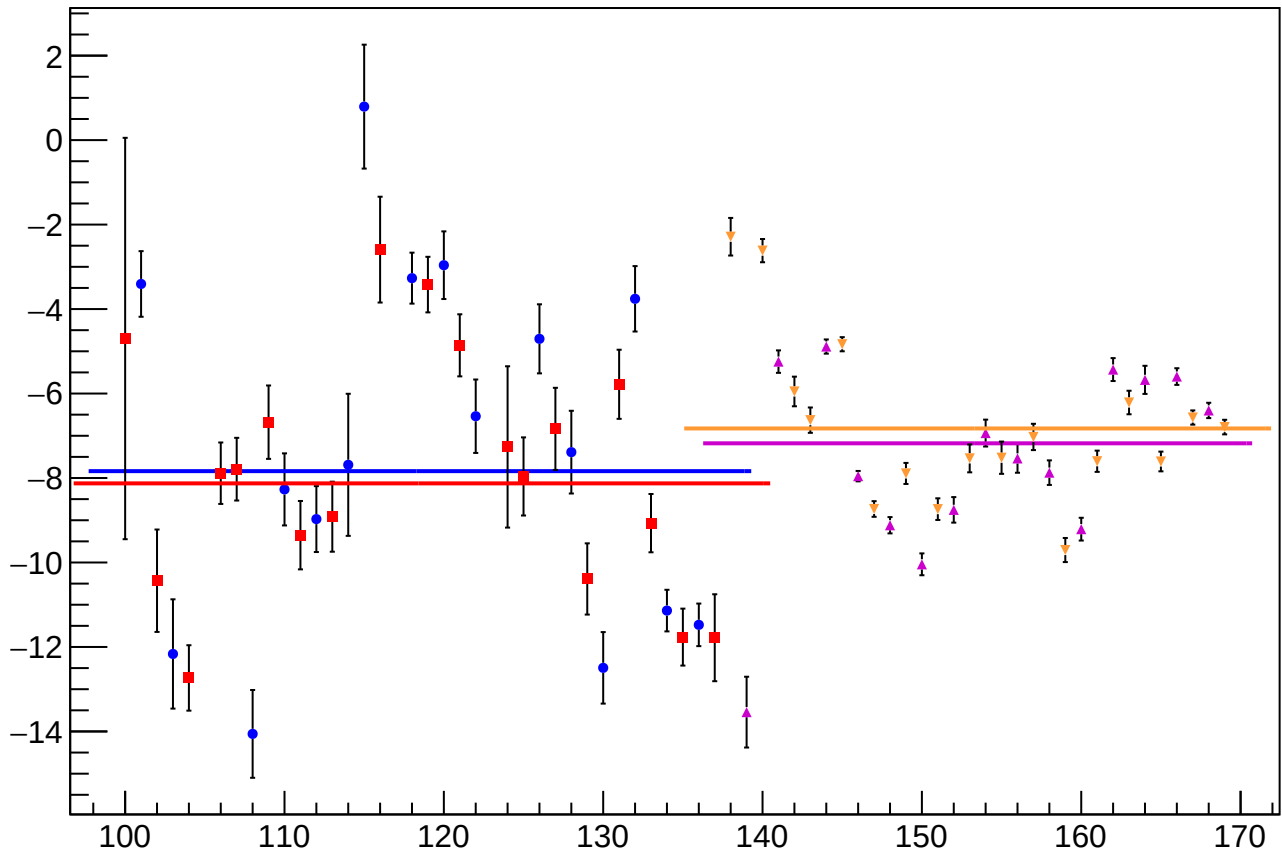
Right: -28.950 ± 0.130 $\chi^2/\text{NDF}: 1048.2/34$

In: -27.278 ± 0.076 $\chi^2/\text{NDF}: 2553.5/30$

Out: -27.767 ± 0.075 $\chi^2/\text{NDF}: 2029.4/35$

All: -27.525 ± 0.054 $\chi^2/\text{NDF}: 4603.7/66$

reg_asym_sam_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -7.837 ± 0.195 χ^2/NDF : 383.2/15

Left Out: -6.827 ± 0.059 χ^2/NDF : 804.6/16

Right Out: -8.127 ± 0.197 χ^2/NDF : 197.3/18

Left In: -7.178 ± 0.058 χ^2/NDF : 795.9/14

Left: -7.004 ± 0.041 χ^2/NDF : 1618.5/31

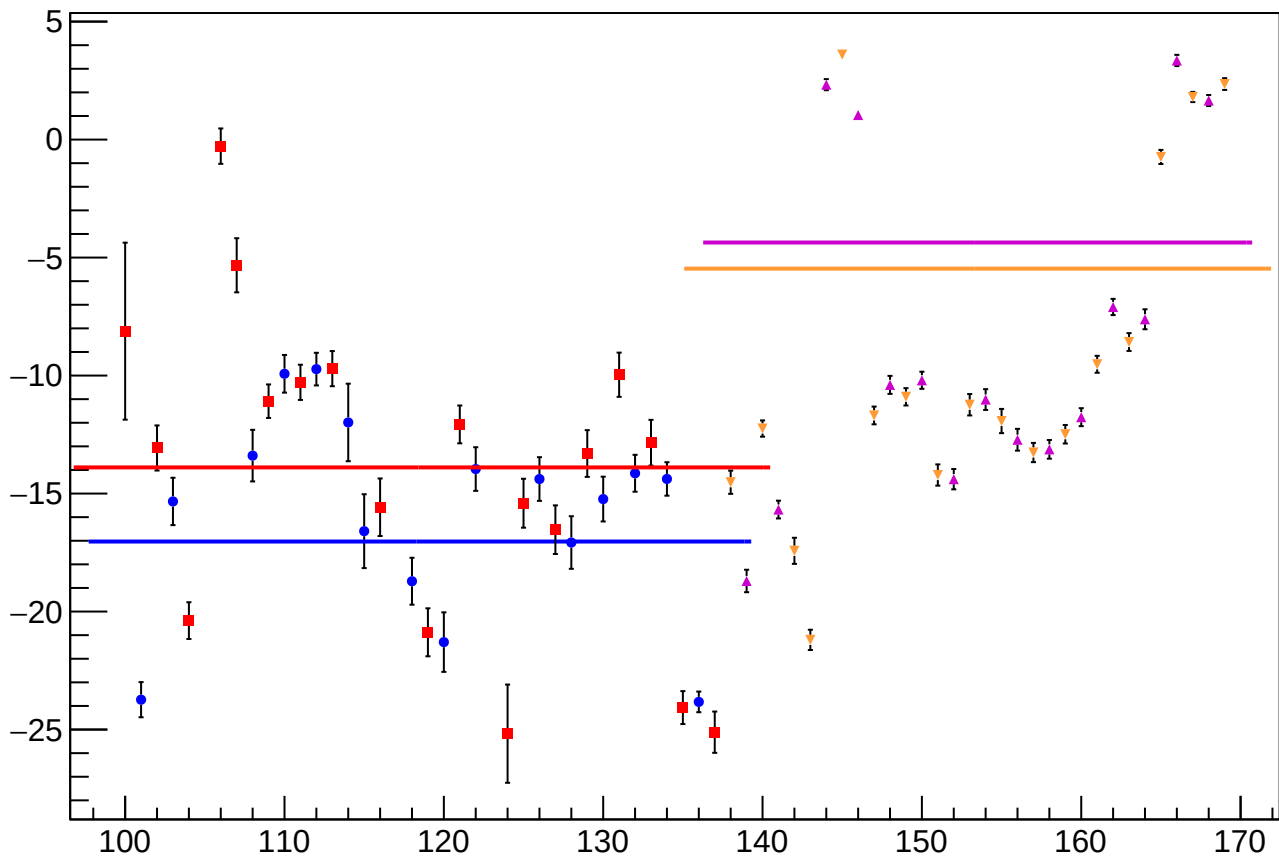
Right: -7.981 ± 0.138 χ^2/NDF : 581.6/34

In: -7.233 ± 0.056 χ^2/NDF : 1189.6/30

Out: -6.934 ± 0.056 χ^2/NDF : 1042.0/35

All: -7.084 ± 0.040 χ^2/NDF : 2245.8/66

reg_asym_sam_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -17.033 ± 0.209 $\chi^2/\text{NDF} = 601.2/15$

Left Out: -5.469 ± 0.082 $\chi^2/\text{NDF} = 8878.6/16$

Right Out: -13.892 ± 0.209 $\chi^2/\text{NDF} = 1017.4/18$

Left In: -4.362 ± 0.082 $\chi^2/\text{NDF} = 7683.2/14$

Left: -4.916 ± 0.058 $\chi^2/\text{NDF} = 16652.5/31$

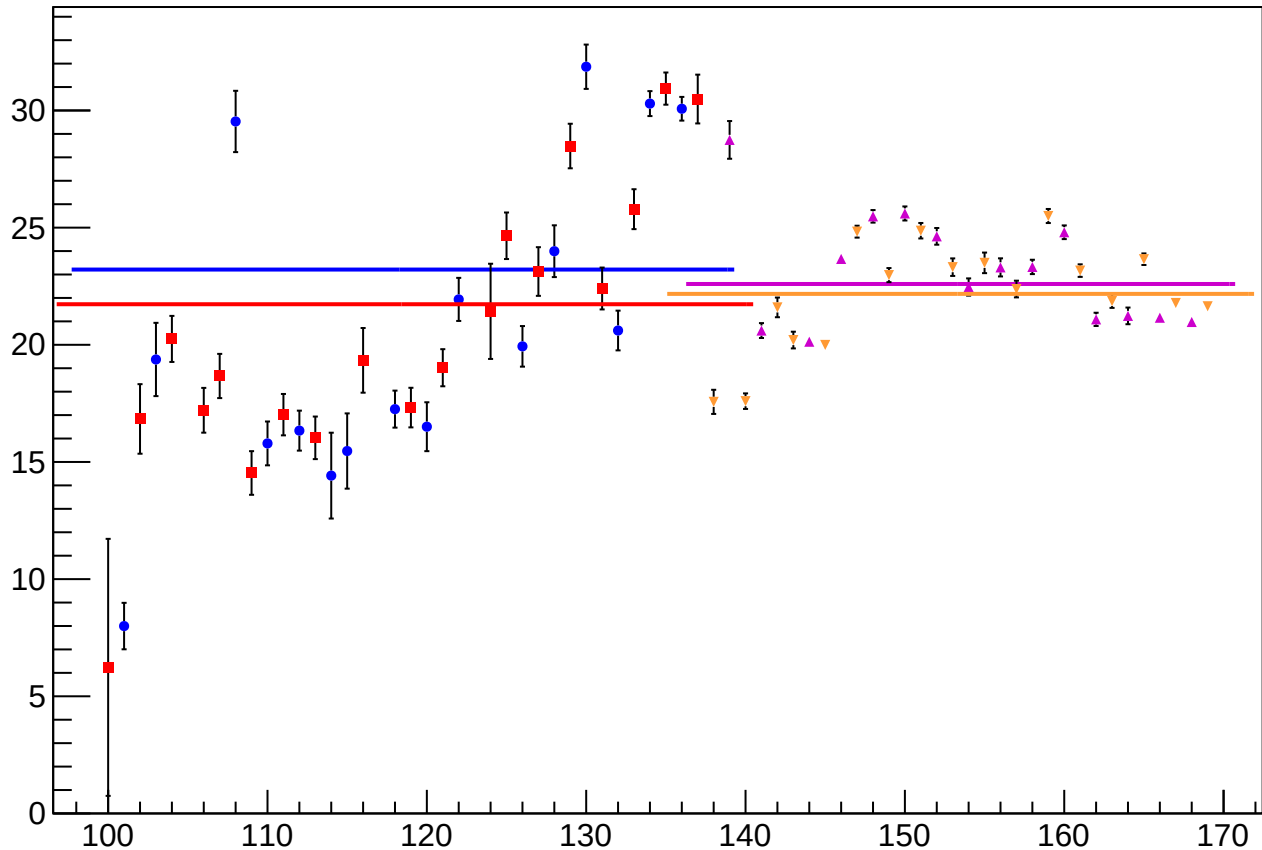
Right: -15.462 ± 0.148 $\chi^2/\text{NDF} = 1731.1/34$

In: -6.053 ± 0.076 $\chi^2/\text{NDF} = 11457.9/30$

Out: -6.591 ± 0.076 $\chi^2/\text{NDF} = 11299.5/35$

All: -6.322 ± 0.054 $\chi^2/\text{NDF} = 22782.2/66$

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 23.211 $\pm$ 0.0218 χ^2 /NDF: 1008.2/15

Left Out: 22.173 $\pm$ 0.068 χ^2 /NDF:819.4/16

Right Out: 21.731 $\pm$ 0.224 χ^2 /NDF: 558.2/18

Left In: 22.595 $\pm$ 0.068 χ^2 /NDF:766.5/14

Left: 22.382 $\pm$ 0.048 χ^2 /NDF: 1605.2/31

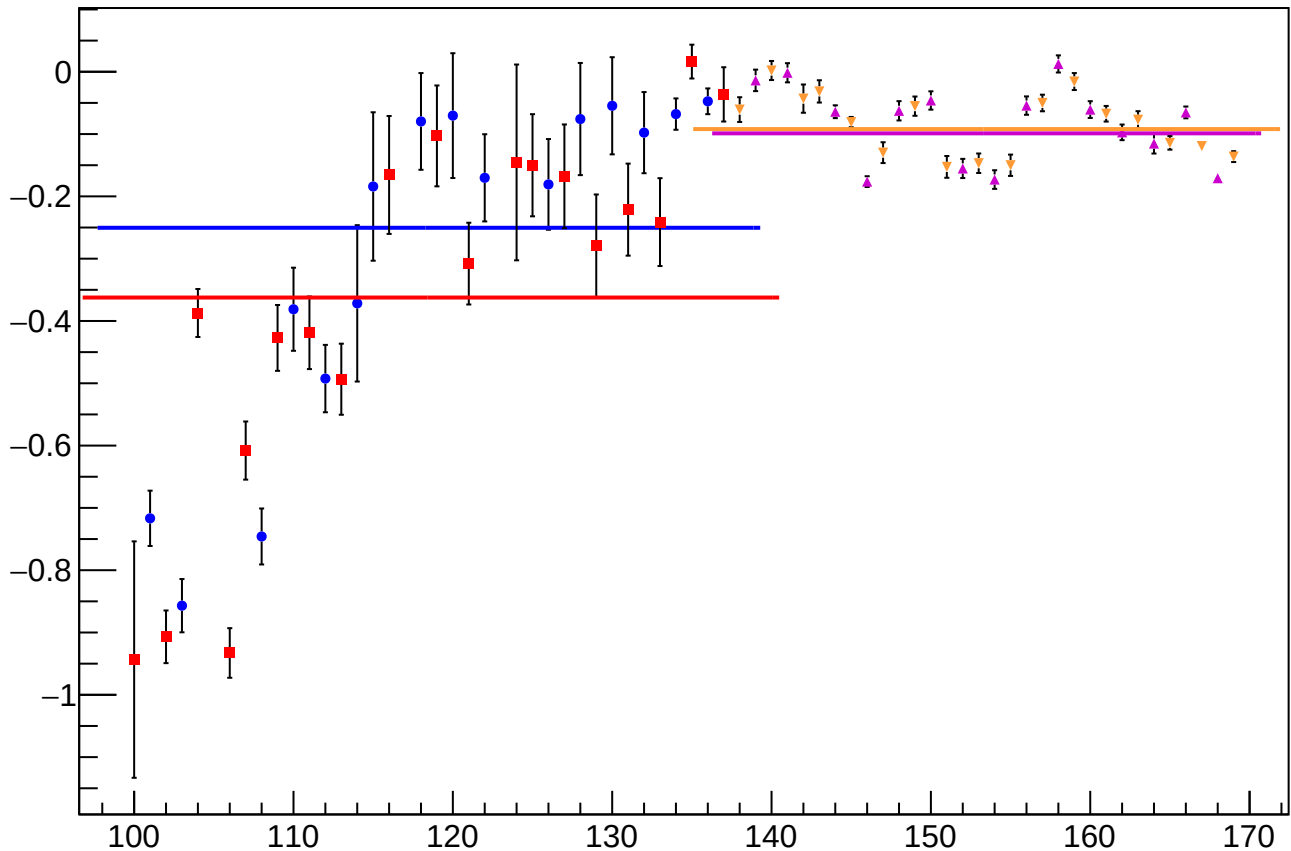
Right: 22.492 $\pm$ 0.156 χ^2 /NDF: 1588.8/34

In: 22.650 $\pm$ 0.065 χ^2 /NDF:1781.9/30

Out: 22.136 $\pm$ 0.065 χ^2 /NDF:1381.1/35

All: 22.391 $\pm$ 0.046 χ^2 /NDF: 3194.4/66

reg_asym_sam_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.250 ± 0.012 χ^2/NDF : 633.5/15

Left Out: -0.092 ± 0.003 χ^2/NDF : 193.0/16

Right Out: -0.362 ± 0.012 χ^2/NDF : 704.3/18

Left In: -0.099 ± 0.003 χ^2/NDF : 390.3/14

Left: -0.095 ± 0.002 χ^2/NDF : 585.6/31

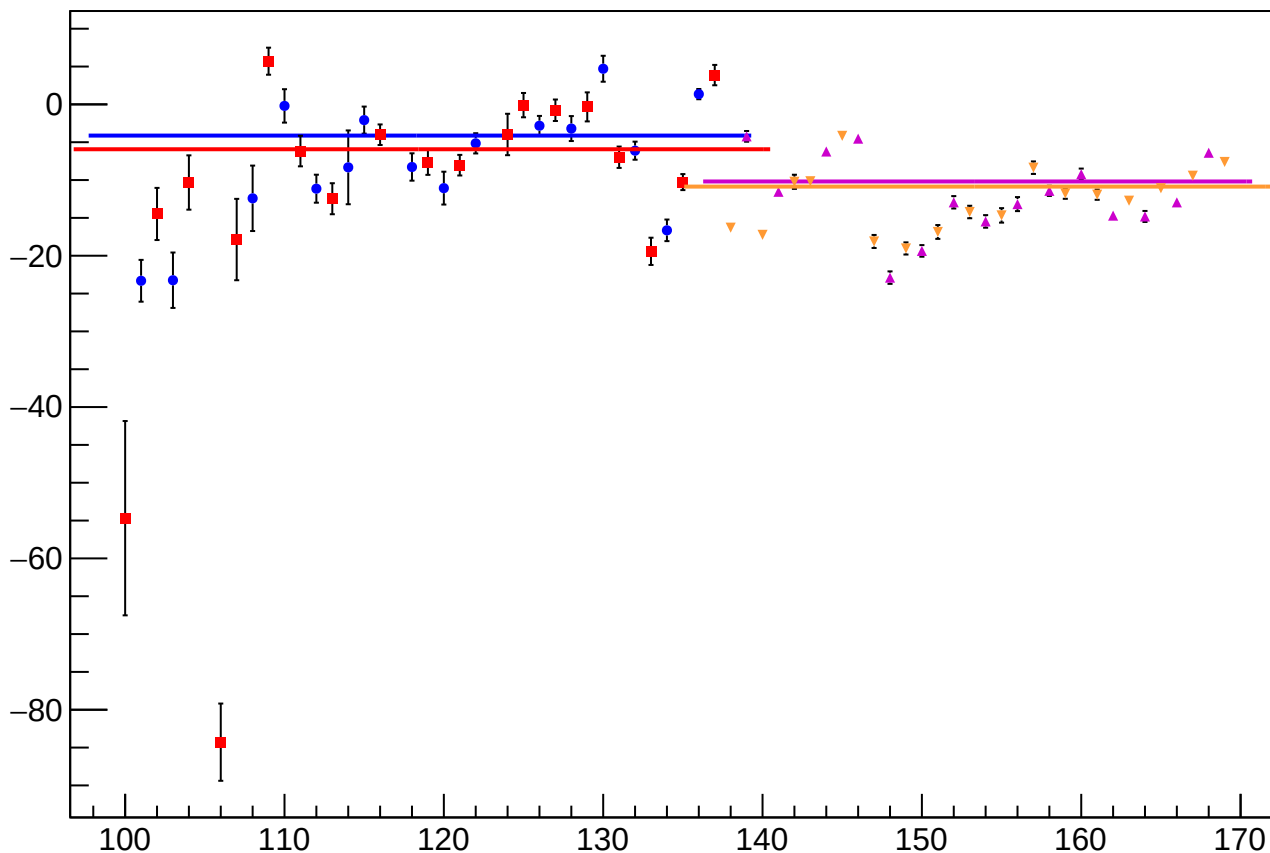
Right: -0.303 ± 0.008 χ^2/NDF : 1381.3/34

In: -0.109 ± 0.003 χ^2/NDF : 1181.3/30

Out: -0.108 ± 0.003 χ^2/NDF : 1348.7/35

All: -0.108 ± 0.002 χ^2/NDF : 2530.0/66

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.124 ± 0.382 χ^2/NDF : 287.9/15

Left Out: -10.865 ± 0.147 χ^2/NDF : 869.0/16

Right Out: -5.930 ± 0.408 χ^2/NDF : 482.6/18

Left In: -10.188 ± 0.152 χ^2/NDF : 1024.4/14

Left: -10.539 ± 0.106 χ^2/NDF : 1903.7/31

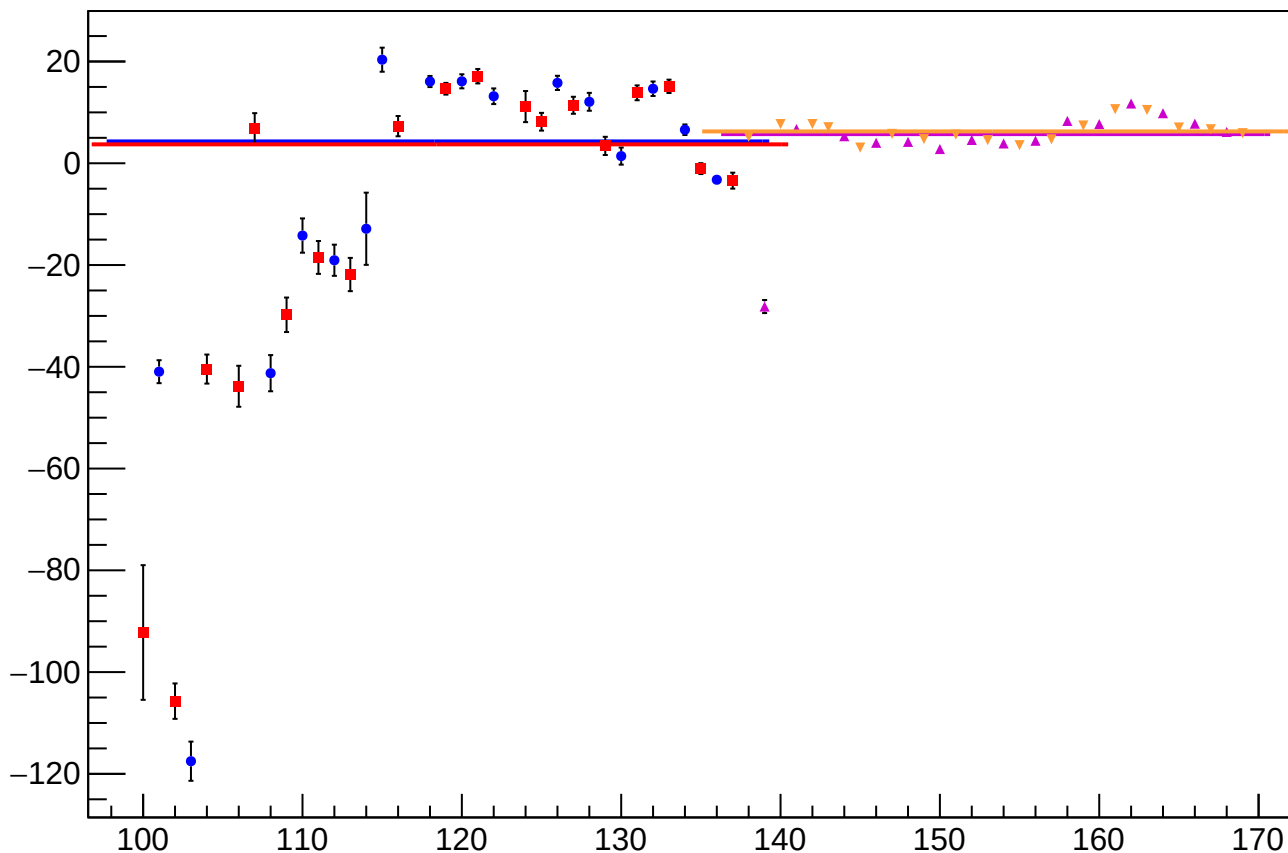
Right: -4.968 ± 0.279 χ^2/NDF : 781.0/34

In: -9.358 ± 0.141 χ^2/NDF : 1530.1/30

Out: -10.300 ± 0.138 χ^2/NDF : 1481.3/35

All: -9.840 ± 0.099 χ^2/NDF : 3034.2/66

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 4.292 ± 0.385 $\chi^2/\text{NDF}: 2169.1/15$

Left Out: 6.259 ± 0.106 $\chi^2/\text{NDF}: 368.9/16$

Right Out: 3.717 ± 0.423 $\chi^2/\text{NDF}: 2007.2/18$

Left In: 5.731 ± 0.108 $\chi^2/\text{NDF}: 1123.7/14$

Left: 6.002 ± 0.076 $\chi^2/\text{NDF}: 1504.8/31$

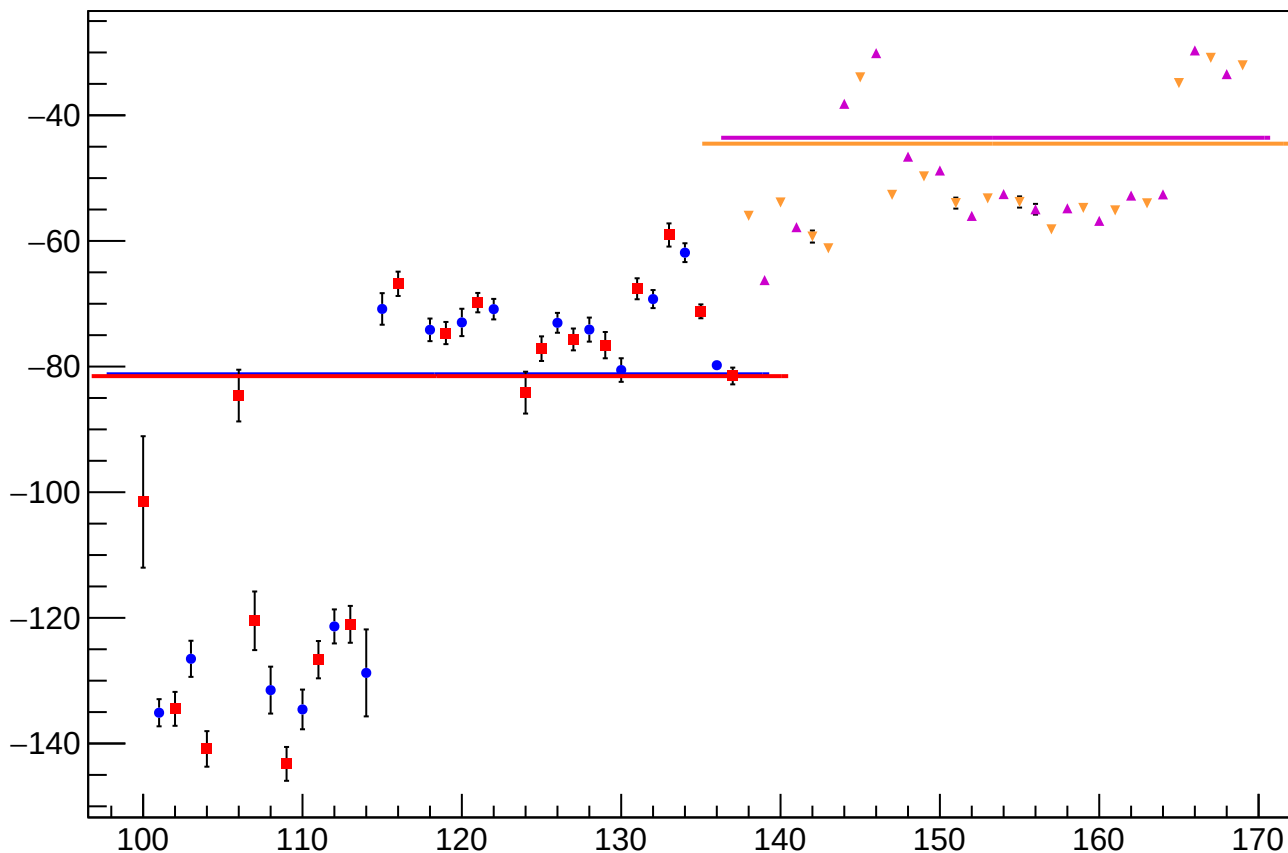
Right: 4.031 ± 0.285 $\chi^2/\text{NDF}: 4177.4/34$

In: 5.625 ± 0.104 $\chi^2/\text{NDF}: 3305.7/30$

Out: 6.109 ± 0.102 $\chi^2/\text{NDF}: 2410.2/35$

All: 5.872 ± 0.073 $\chi^2/\text{NDF}: 5726.9/66$

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.231 ± 0.417 χ^2/NDF : 1971.1/15

Left Out: -44.517 ± 0.146 χ^2/NDF : 6021.8/16

Right Out: -81.523 ± 0.462 χ^2/NDF : 2293.2/18

Left In: -43.577 ± 0.149 χ^2/NDF : 6075.4/14

Left: -44.060 ± 0.104 χ^2/NDF : 12117.4/31

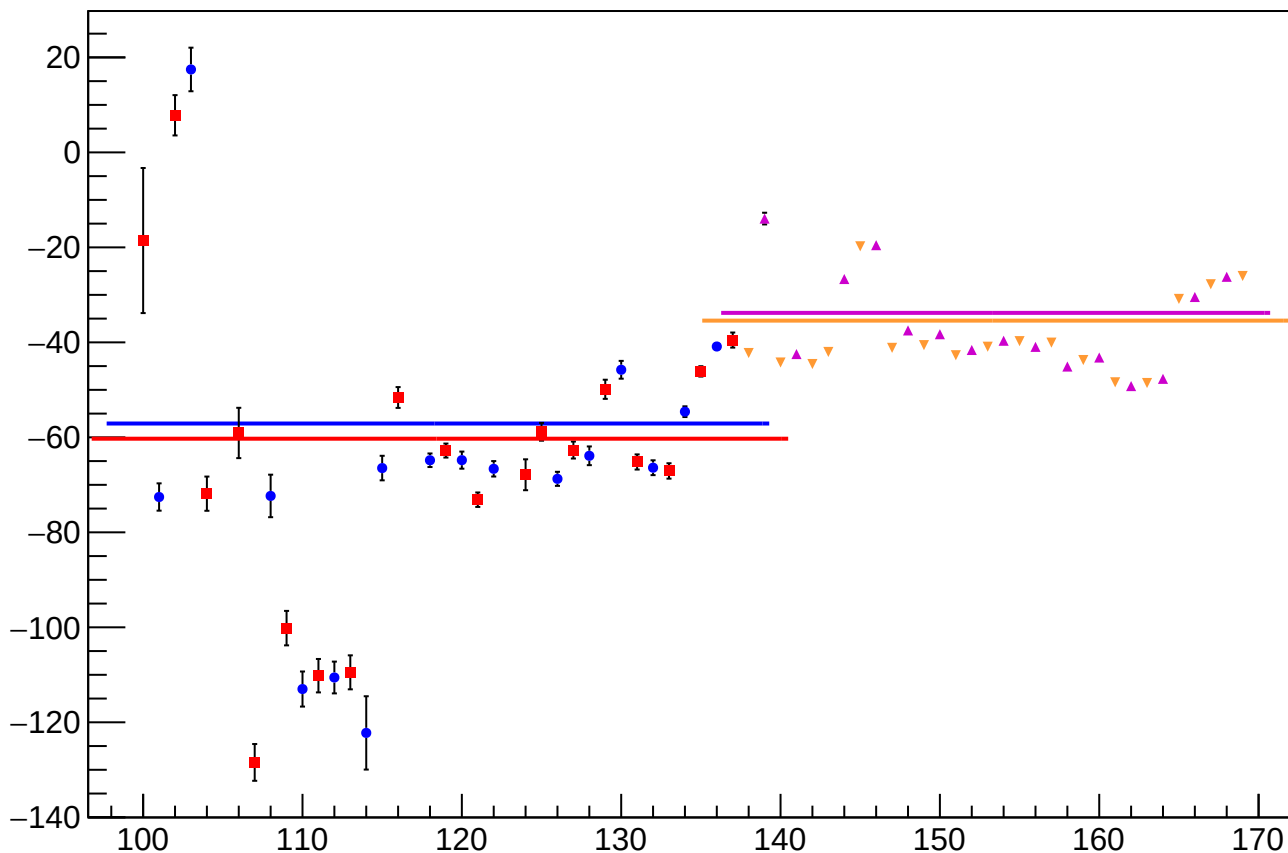
Right: -81.362 ± 0.309 χ^2/NDF : 4264.5/34

In: -47.864 ± 0.141 χ^2/NDF : 15277.5/30

Out: -47.862 ± 0.139 χ^2/NDF : 14161.0/35

All: -47.863 ± 0.099 χ^2/NDF : 29438.5/66

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -57.089 ± 0.426 $\chi^2/\text{NDF}: 1526.8/15$

Left Out: -35.422 ± 0.120 $\chi^2/\text{NDF}: 6261.3/16$

Right Out: -60.287 ± 0.470 $\chi^2/\text{NDF}: 1587.9/18$

Left In: -33.792 ± 0.125 $\chi^2/\text{NDF}: 6368.3/14$

Left: -34.640 ± 0.087 $\chi^2/\text{NDF}: 12717.6/31$

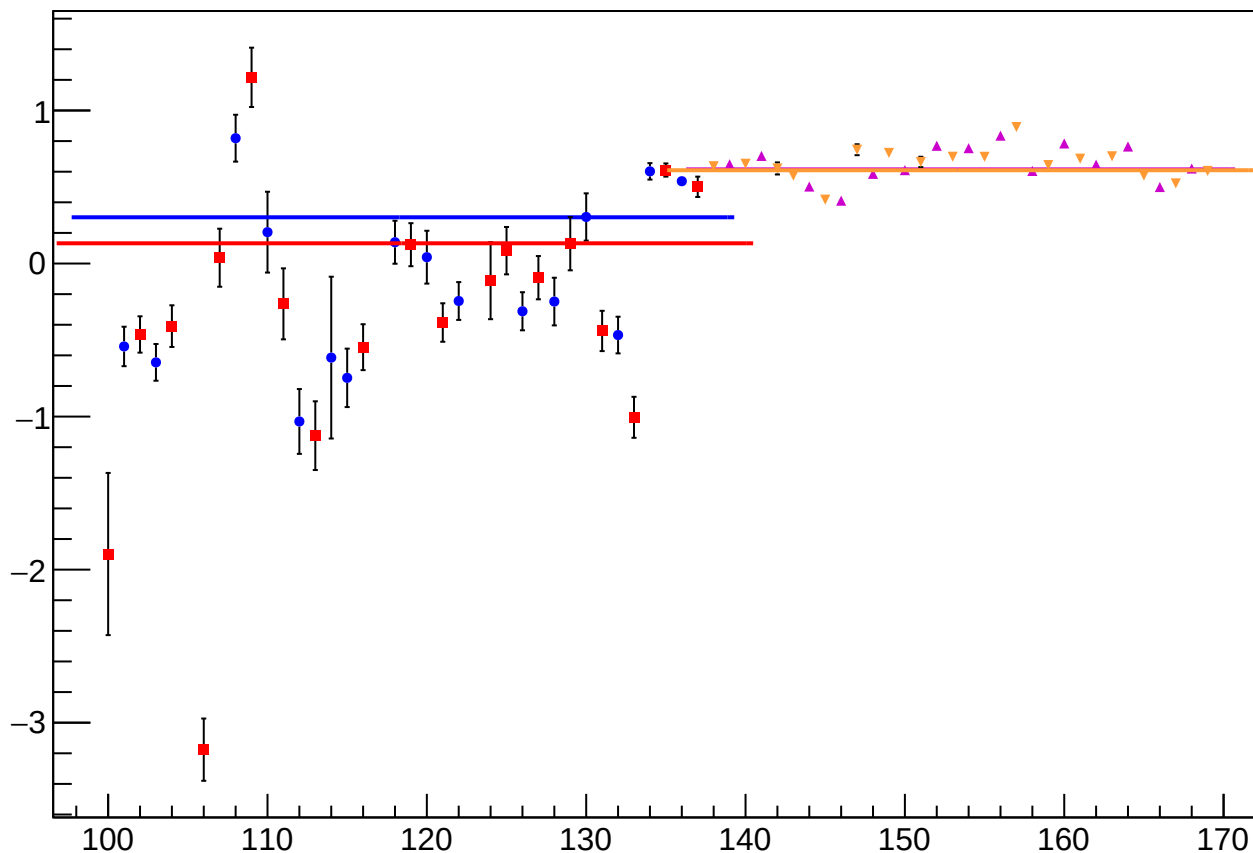
Right: -58.530 ± 0.316 $\chi^2/\text{NDF}: 3140.1/34$

In: -35.651 ± 0.120 $\chi^2/\text{NDF}: 10650.7/30$

Out: -36.951 ± 0.117 $\chi^2/\text{NDF}: 10475.7/35$

All: -36.321 ± 0.084 $\chi^2/\text{NDF}: 21186.7/66$

reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.302 ± 0.023 χ^2/NDF : 374.8/15

Left Out: 0.610 ± 0.005 χ^2/NDF : 415.8/16

Right Out: 0.132 ± 0.027 χ^2/NDF : 672.5/18

Left In: 0.615 ± 0.006 χ^2/NDF : 439.5/14

Left: 0.612 ± 0.004 χ^2/NDF : 855.7/31

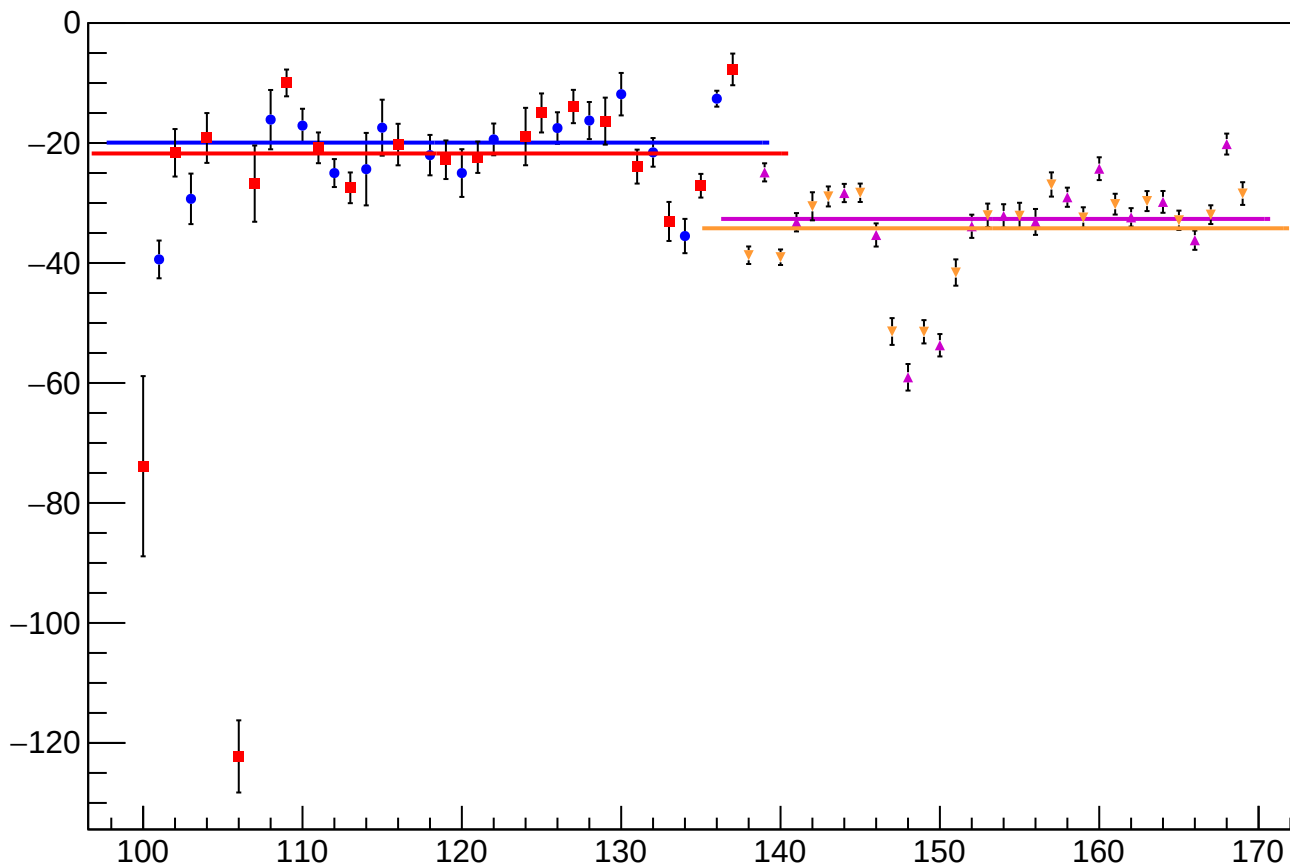
Right: 0.229 ± 0.017 χ^2/NDF : 1070.8/34

In: 0.597 ± 0.006 χ^2/NDF : 989.5/30

Out: 0.590 ± 0.005 χ^2/NDF : 1399.5/35

All: 0.593 ± 0.004 χ^2/NDF : 2389.8/66

reg_asym_sam_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -19.935 ± 0.695 χ^2/NDF : 120.6/15

Left Out: -34.215 ± 0.425 χ^2/NDF : 241.6/16

Right Out: -21.746 ± 0.714 χ^2/NDF : 388.3/18

Left In: -32.655 ± 0.451 χ^2/NDF : 389.5/14

Left: -33.481 ± 0.309 χ^2/NDF : 637.4/31

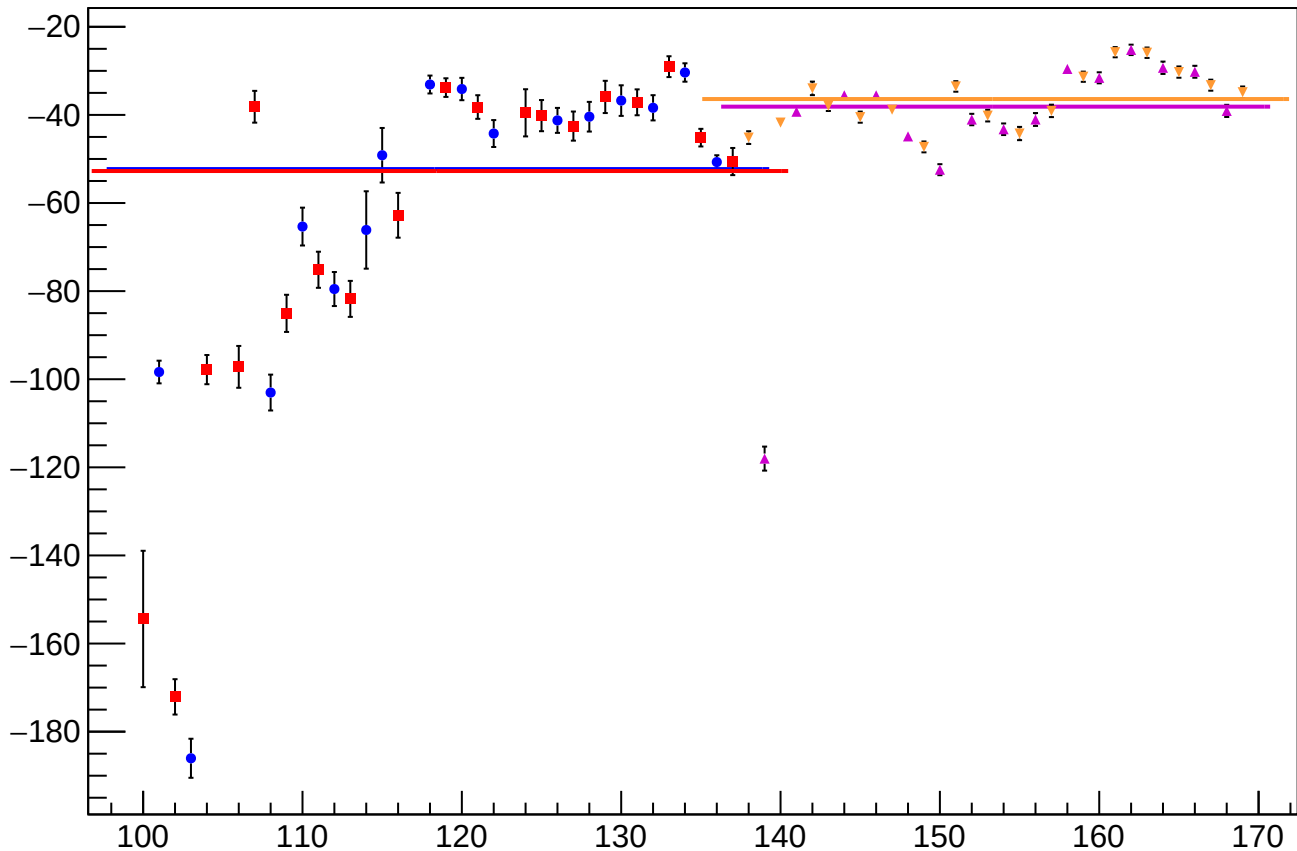
Right: -20.816 ± 0.498 χ^2/NDF : 512.2/34

In: -28.883 ± 0.378 χ^2/NDF : 745.8/30

Out: -30.950 ± 0.365 χ^2/NDF : 855.3/35

All: -29.953 ± 0.263 χ^2/NDF : 1616.6/66

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -52.296 ± 0.708 $\chi^2/\text{NDF}: 1778.2/15$

Left Out: -36.396 ± 0.303 $\chi^2/\text{NDF}: 415.4/16$

Right Out: -52.737 ± 0.748 $\chi^2/\text{NDF}: 1662.5/18$

Left In: -38.124 ± 0.325 $\chi^2/\text{NDF}: 1348.6/14$

Left: -37.198 ± 0.222 $\chi^2/\text{NDF}: 1779.1/31$

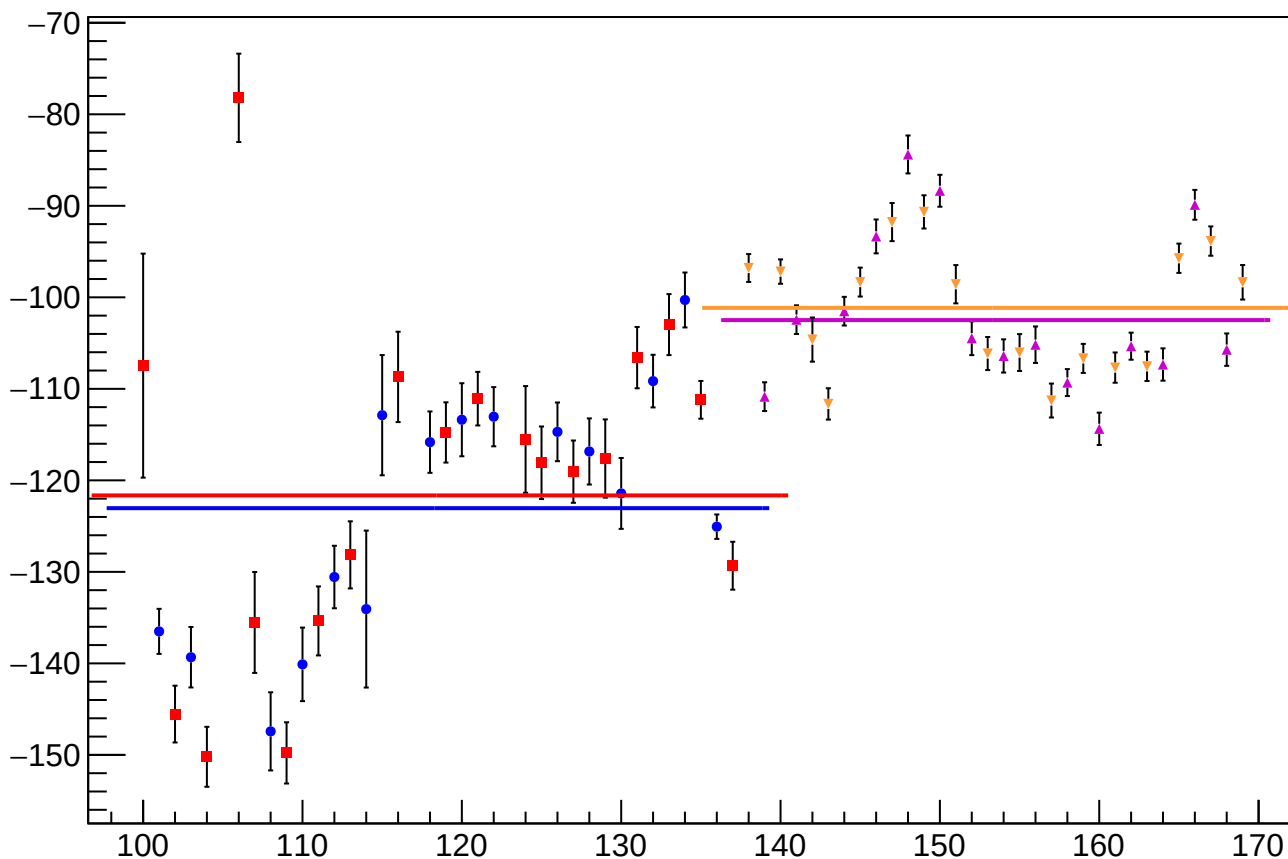
Right: -52.505 ± 0.514 $\chi^2/\text{NDF}: 3440.9/34$

In: -40.593 ± 0.296 $\chi^2/\text{NDF}: 3457.6/30$

Out: -38.693 ± 0.281 $\chi^2/\text{NDF}: 2487.8/35$

All: -39.594 ± 0.203 $\chi^2/\text{NDF}: 5967.1/66$

reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -123.039 ± 0.750 χ^2/NDF : 226.8/15

Left Out: -101.152 ± 0.418 χ^2/NDF : 236.3/16

Right Out: -121.646 ± 0.801 χ^2/NDF : 424.5/18

Left In: -102.487 ± 0.440 χ^2/NDF : 343.8/14

Left: -101.786 ± 0.303 χ^2/NDF : 584.9/31

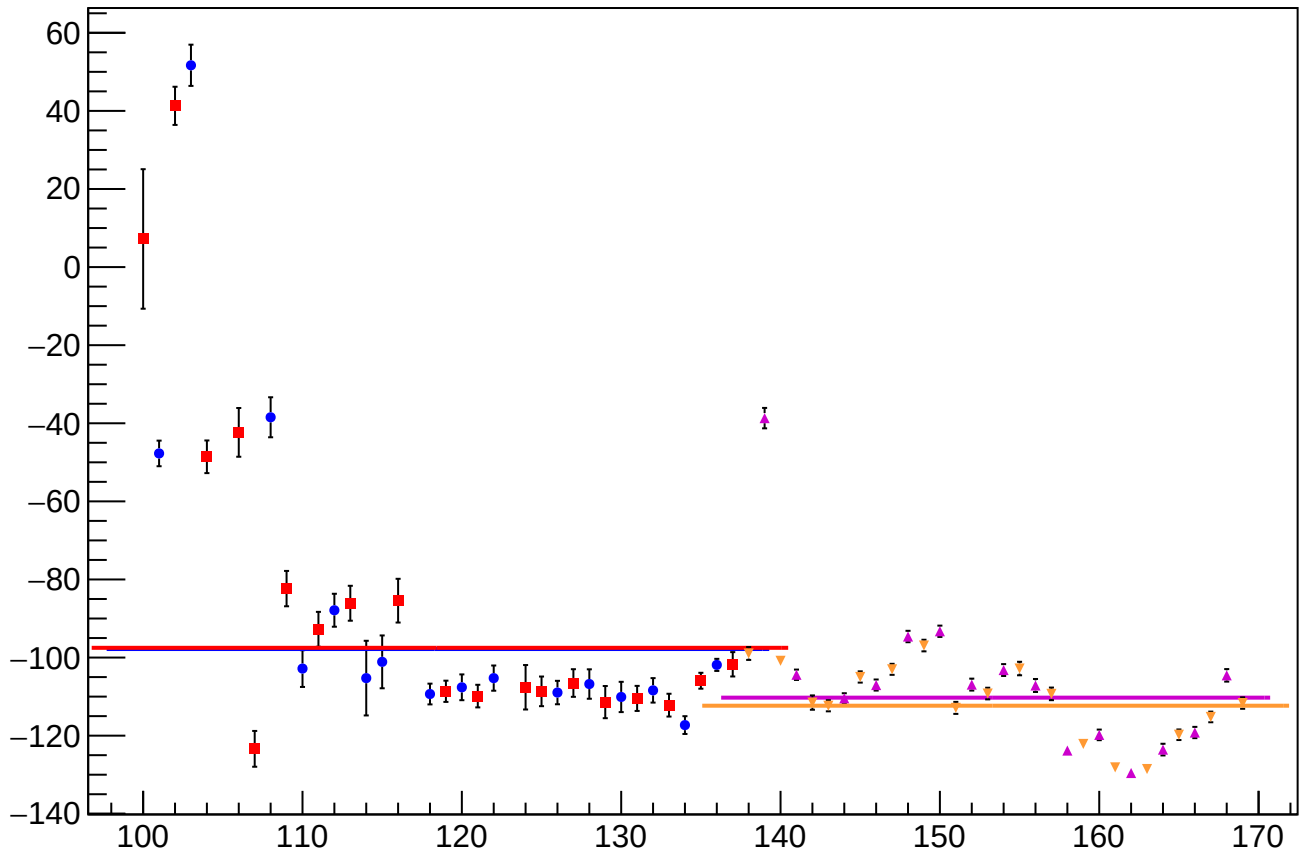
Right: -122.388 ± 0.548 χ^2/NDF : 652.9/34

In: -107.740 ± 0.379 χ^2/NDF : 1129.6/30

Out: -105.535 ± 0.371 χ^2/NDF : 1175.1/35

All: -106.612 ± 0.265 χ^2/NDF : 2322.0/66

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -97.814 ± 0.793 $\chi^2/\text{NDF}: 1330.8/15$

Left Out: -112.331 ± 0.347 $\chi^2/\text{NDF}: 791.8/16$

Right Out: -97.504 ± 0.843 $\chi^2/\text{NDF}: 1236.4/18$

Left In: -110.268 ± 0.372 $\chi^2/\text{NDF}: 1623.7/14$

Left: -111.370 ± 0.254 $\chi^2/\text{NDF}: 2431.9/31$

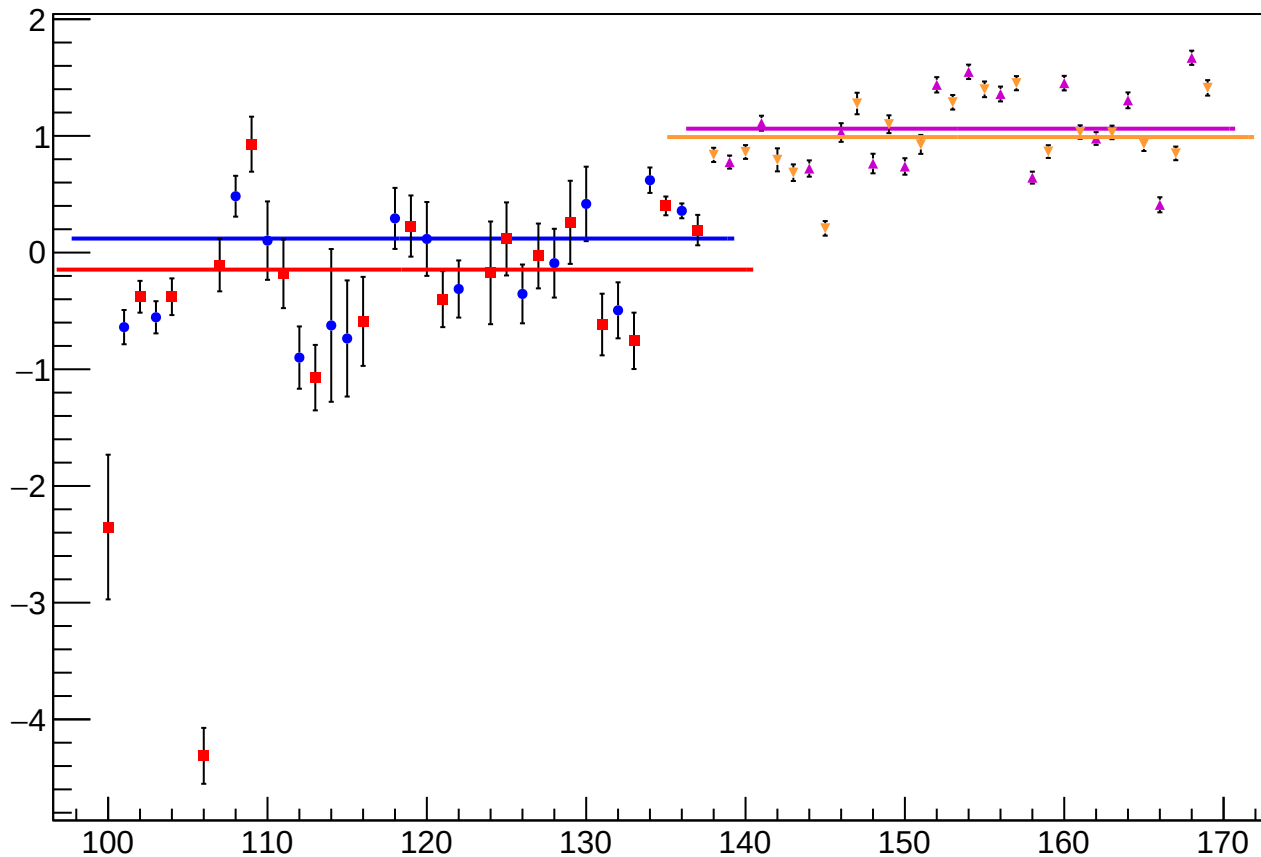
Right: -97.668 ± 0.578 $\chi^2/\text{NDF}: 2567.3/34$

In: -108.025 ± 0.337 $\chi^2/\text{NDF}: 3156.7/30$

Out: -110.180 ± 0.321 $\chi^2/\text{NDF}: 2292.9/35$

All: -109.153 ± 0.232 $\chi^2/\text{NDF}: 5471.0/66$

reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.120 ± 0.041 $\chi^2/\text{NDF}: 123.9/15$

Left Out: 0.990 ± 0.016 $\chi^2/\text{NDF}: 373.0/16$

Right Out: -0.146 ± 0.045 $\chi^2/\text{NDF}: 421.0/18$

Left In: 1.062 ± 0.016 $\chi^2/\text{NDF}: 523.5/14$

Left: 1.024 ± 0.011 $\chi^2/\text{NDF}: 906.5/31$

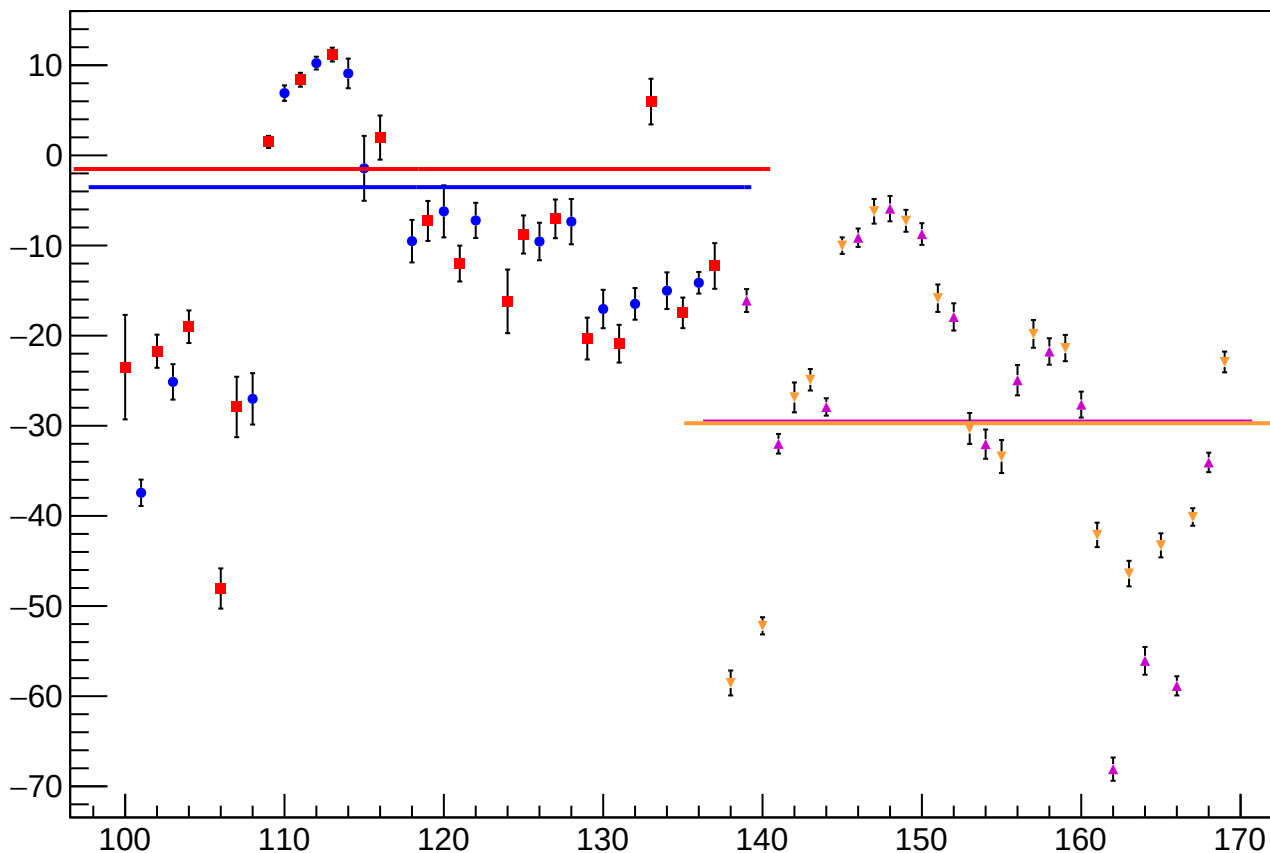
Right: -0.002 ± 0.030 $\chi^2/\text{NDF}: 563.9/34$

In: 0.933 ± 0.015 $\chi^2/\text{NDF}: 1097.6/30$

Out: 0.865 ± 0.015 $\chi^2/\text{NDF}: 1364.1/35$

All: 0.898 ± 0.011 $\chi^2/\text{NDF}: 2471.6/66$

reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.527 ± 0.377 $\chi^2/\text{NDF}: 1529.1/15$

Left Out: -29.716 ± 0.309 $\chi^2/\text{NDF}: 2738.8/16$

Right Out: -1.513 ± 0.338 $\chi^2/\text{NDF}: 1524.7/18$

Left In: -29.525 ± 0.323 $\chi^2/\text{NDF}: 3164.2/14$

Left: -29.625 ± 0.223 $\chi^2/\text{NDF}: 5903.2/31$

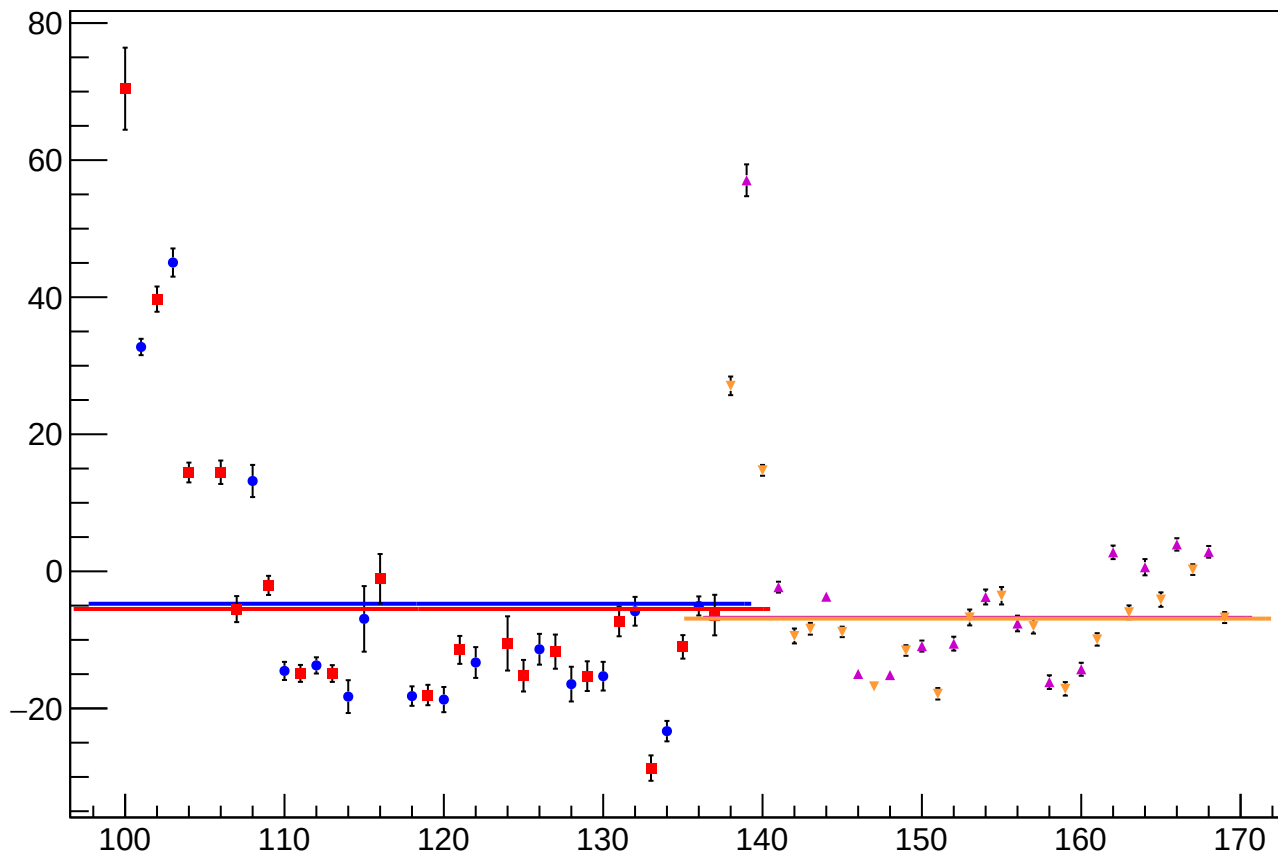
Right: -2.413 ± 0.252 $\chi^2/\text{NDF}: 3069.7/34$

In: -18.504 ± 0.245 $\chi^2/\text{NDF}: 7436.3/30$

Out: -16.883 ± 0.228 $\chi^2/\text{NDF}: 8047.8/35$

All: -17.635 ± 0.167 $\chi^2/\text{NDF}: 15507.4/66$

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.729 ± 0.431 χ^2/NDF : 2148.0/15

Left Out: -6.894 ± 0.217 χ^2/NDF : 2059.6/16

Right Out: -5.491 ± 0.422 χ^2/NDF : 1508.6/18

Left In: -6.783 ± 0.228 χ^2/NDF : 1737.4/14

Left: -6.841 ± 0.157 χ^2/NDF : 3797.2/31

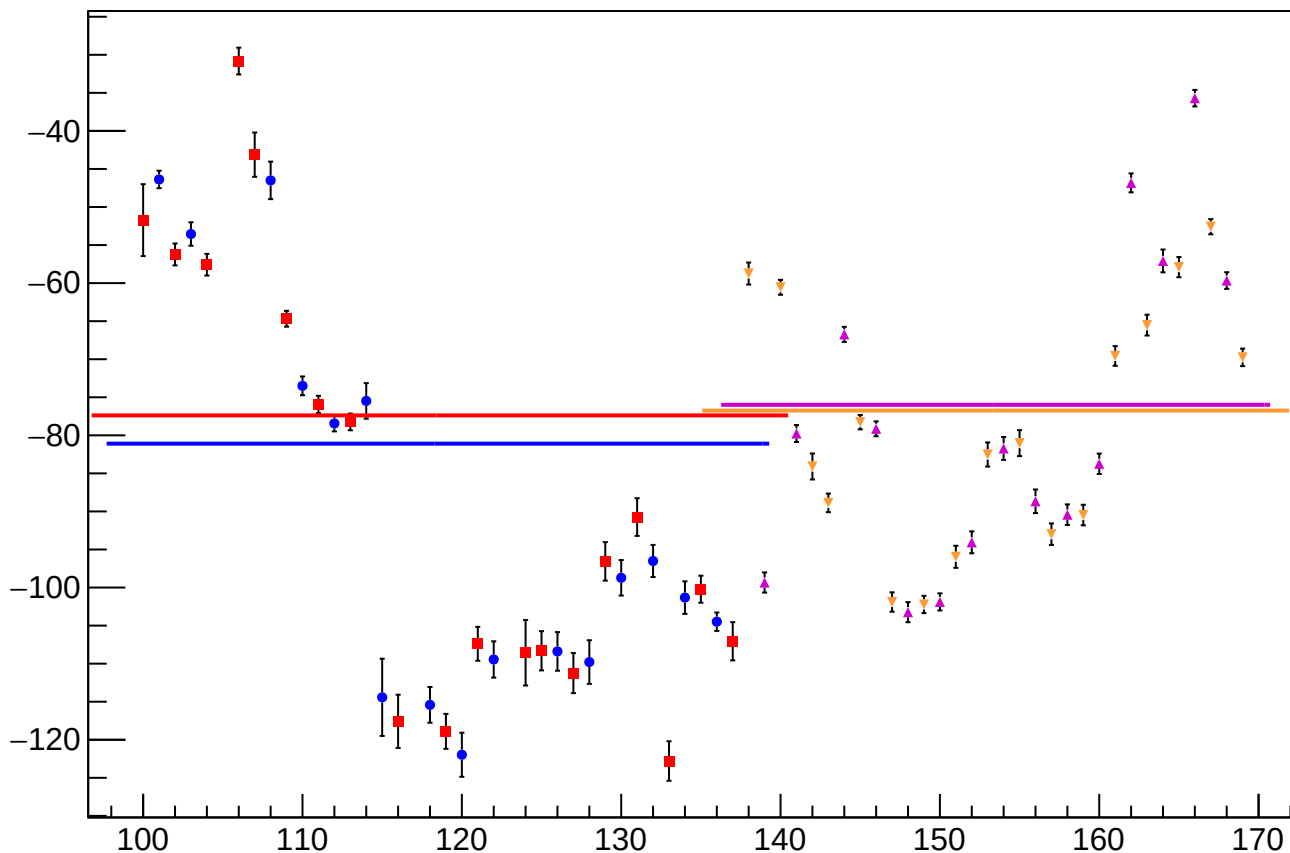
Right: -5.118 ± 0.302 χ^2/NDF : 3658.1/34

In: -6.332 ± 0.202 χ^2/NDF : 3903.2/30

Out: -6.600 ± 0.193 χ^2/NDF : 3576.9/35

All: -6.472 ± 0.140 χ^2/NDF : 7481.0/66

reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -81.091 ± 0.438 χ^2/NDF : 2870.3/15

Left Out: -76.744 ± 0.305 χ^2/NDF : 2792.2/16

Right Out: -77.379 ± 0.417 χ^2/NDF : 3129.7/18

Left In: -75.992 ± 0.316 χ^2/NDF : 4074.8/14

Left: -76.381 ± 0.219 χ^2/NDF : 6870.0/31

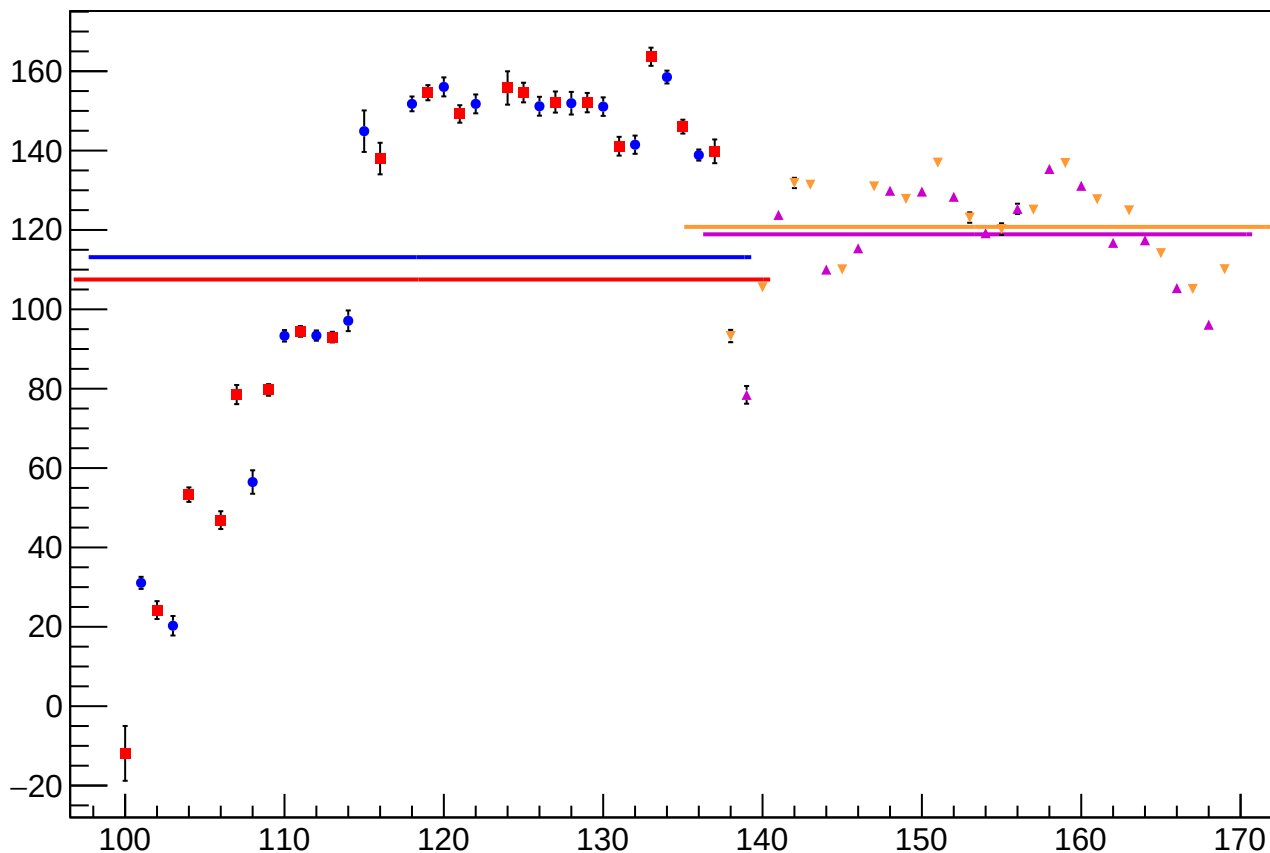
Right: -79.142 ± 0.302 χ^2/NDF : 6037.6/34

In: -77.736 ± 0.256 χ^2/NDF : 7034.1/30

Out: -76.965 ± 0.246 χ^2/NDF : 5923.4/35

All: -77.335 ± 0.178 χ^2/NDF : 12962.3/66

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 113.143 $\pm$ 0.489 χ^2 /NDF: 8204.1/15

Left Out: 120.774 $\pm$ 0.252 χ^2 /NDF: 2165.3/16

Right Out: 107.515 $\pm$ 0.479 χ^2 /NDF: 7544.0/18

Left In: 118.902 $\pm$ 0.265 χ^2 /NDF: 1967.9/14

Left: 119.886 $\pm$ 0.183 χ^2 /NDF: 4159.4/31

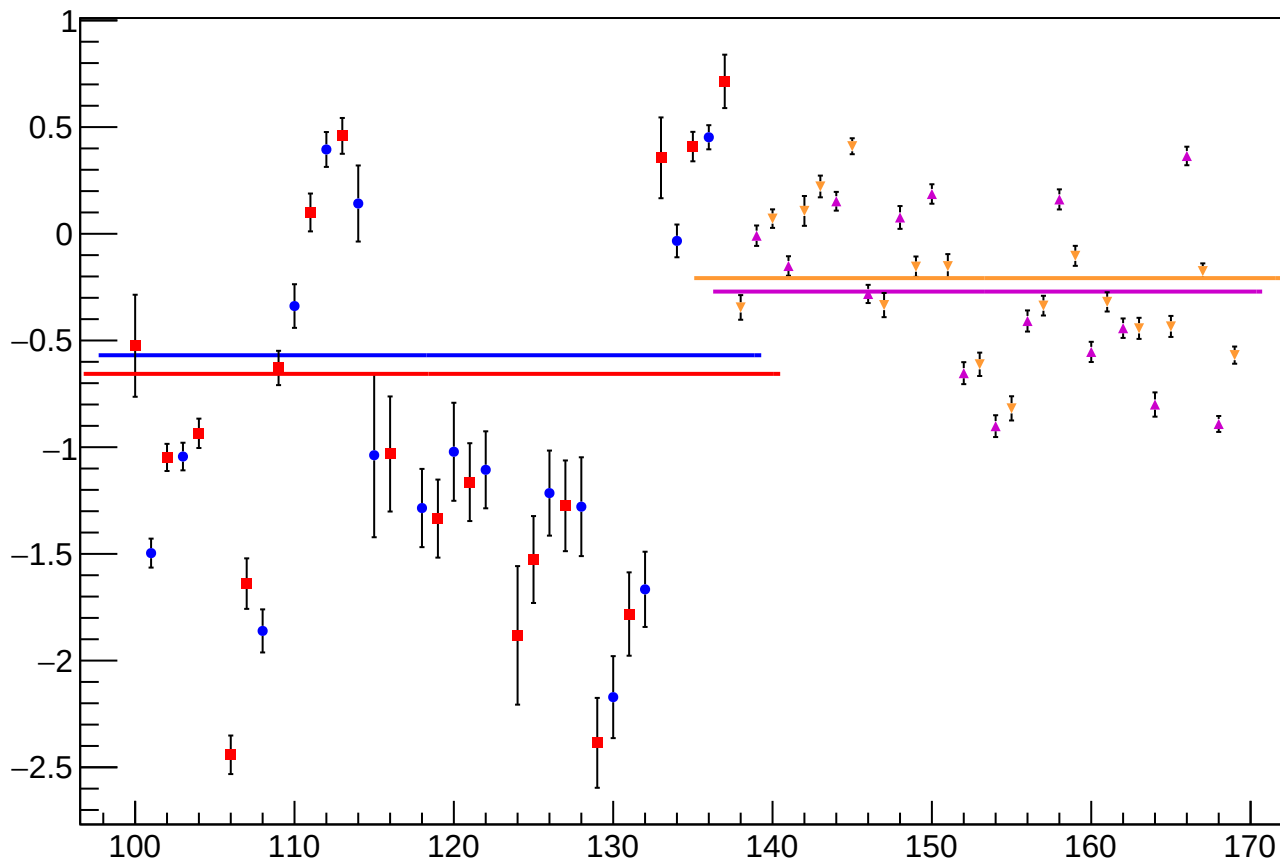
Right: 110.273 $\pm$ 0.342 χ^2 /NDF: 15815.7/34

In: 117.593 $\pm$ 0.233 χ^2 /NDF: 10279.1/30

Out: 117.906 $\pm$ 0.223 χ^2 /NDF: 10308.9/35

All: 117.757 $\pm$ 0.161 χ^2 /NDF: 20589.0/66

reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.569 ± 0.026 $\chi^2/\text{NDF}: 1097.4/15$

Left Out: -0.208 ± 0.012 $\chi^2/\text{NDF}: 732.6/16$

Right Out: -0.656 ± 0.025 $\chi^2/\text{NDF}: 1315.2/18$

Left In: -0.271 ± 0.012 $\chi^2/\text{NDF}: 1198.1/14$

Left: -0.238 ± 0.008 $\chi^2/\text{NDF}: 1945.0/31$

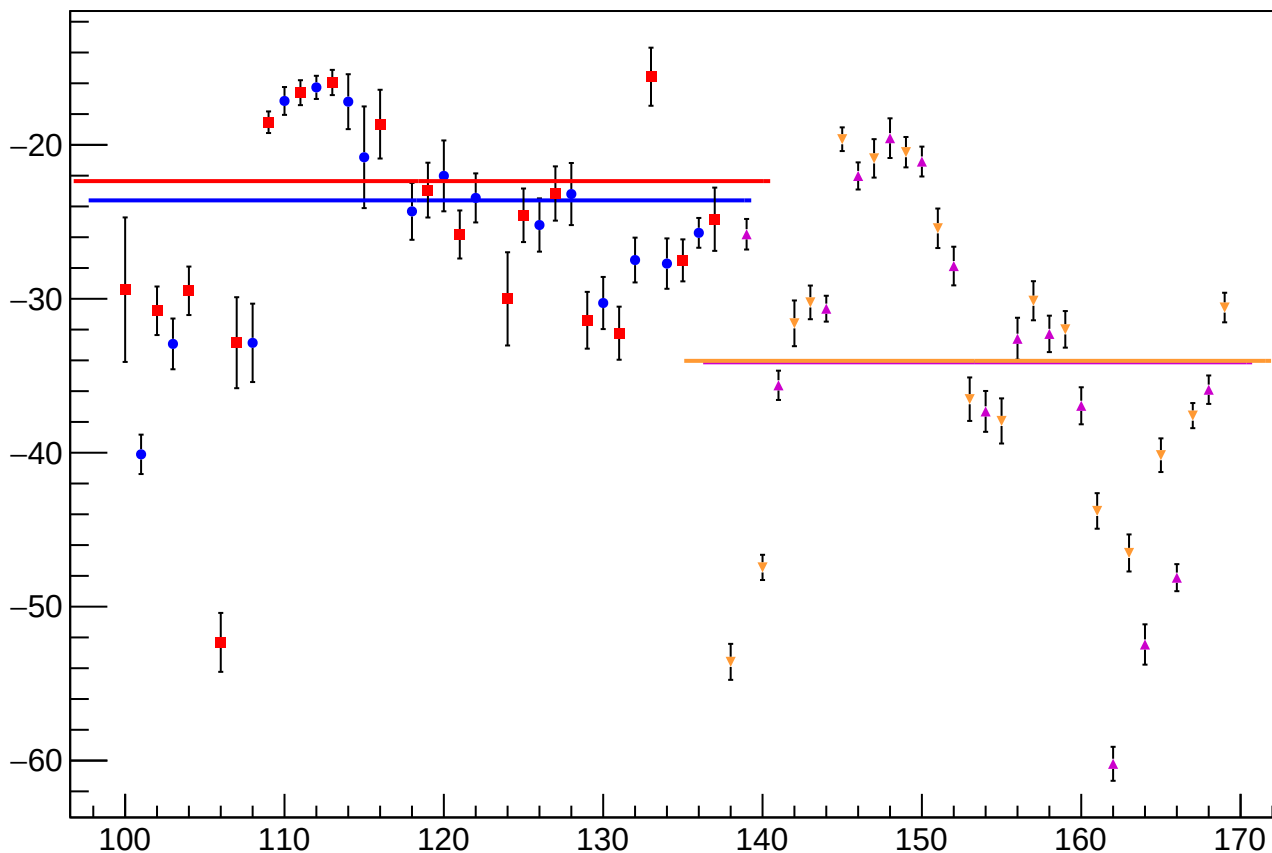
Right: -0.614 ± 0.018 $\chi^2/\text{NDF}: 2418.5/34$

In: -0.324 ± 0.011 $\chi^2/\text{NDF}: 2405.4/30$

Out: -0.286 ± 0.011 $\chi^2/\text{NDF}: 2309.4/35$

All: -0.304 ± 0.008 $\chi^2/\text{NDF}: 4721.1/66$

reg_asym_sam_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.607 ± 0.348 χ^2/NDF : 406.4/15

Left Out: -34.031 ± 0.261 χ^2/NDF : 1521.6/16

Right Out: -22.354 ± 0.322 χ^2/NDF : 551.7/18

Left In: -34.128 ± 0.272 χ^2/NDF : 1638.0/14

Left: -34.078 ± 0.189 χ^2/NDF : 3159.7/31

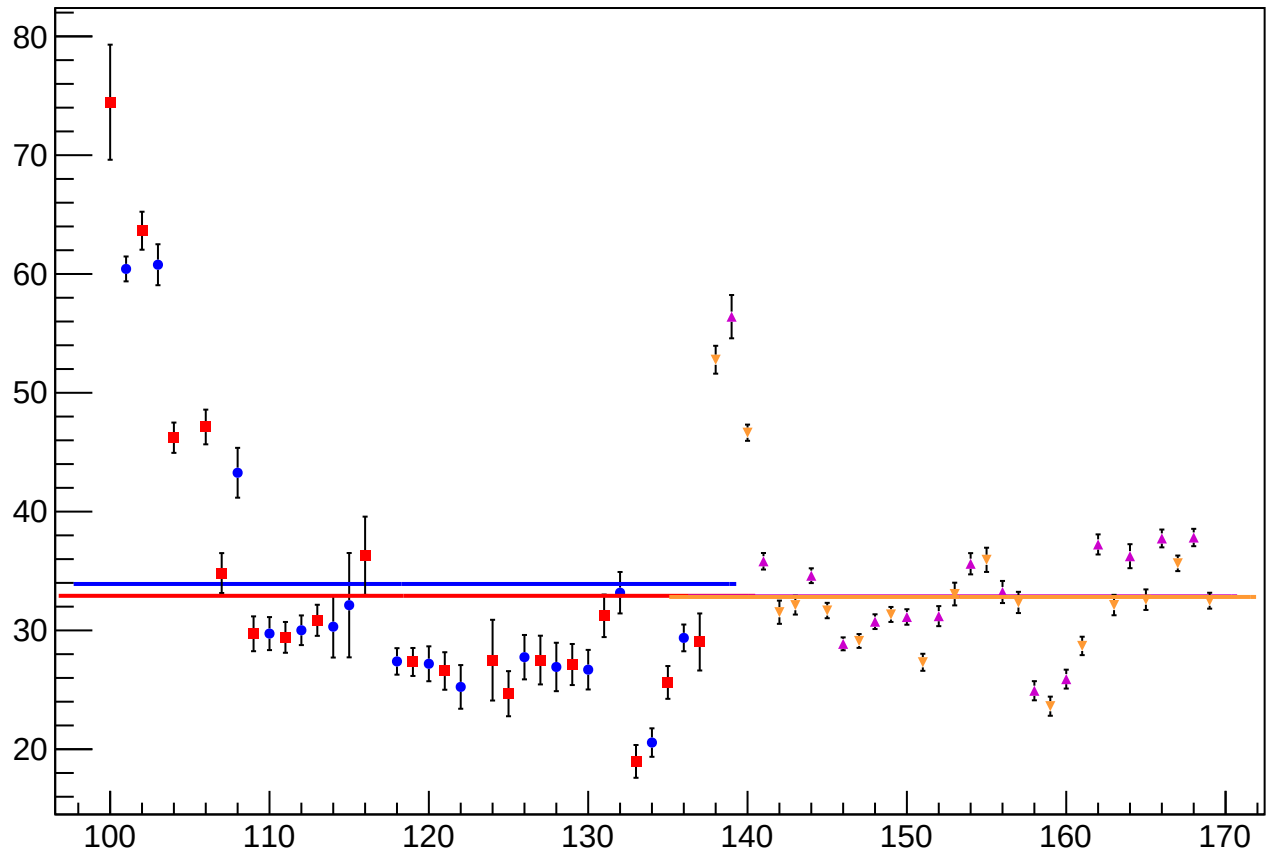
Right: -22.931 ± 0.236 χ^2/NDF : 965.1/34

In: -30.140 ± 0.214 χ^2/NDF : 2611.0/30

Out: -29.386 ± 0.203 χ^2/NDF : 2866.5/35

All: -29.742 ± 0.147 χ^2/NDF : 5484.0/66

reg_asym_sam_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 33.909 $\pm$ 0.375 χ^2 /NDF: 1184.4/15

Left Out: 32.817 $\pm$ 0.185 χ^2 /NDF: 998.8/16

Right Out: 32.911 $\pm$ 0.373 χ^2 /NDF: 875.0/18

Left In: 32.873 $\pm$ 0.195 χ^2 /NDF: 579.0/14

Left: 32.843 $\pm$ 0.134 χ^2 /NDF: 1577.8/31

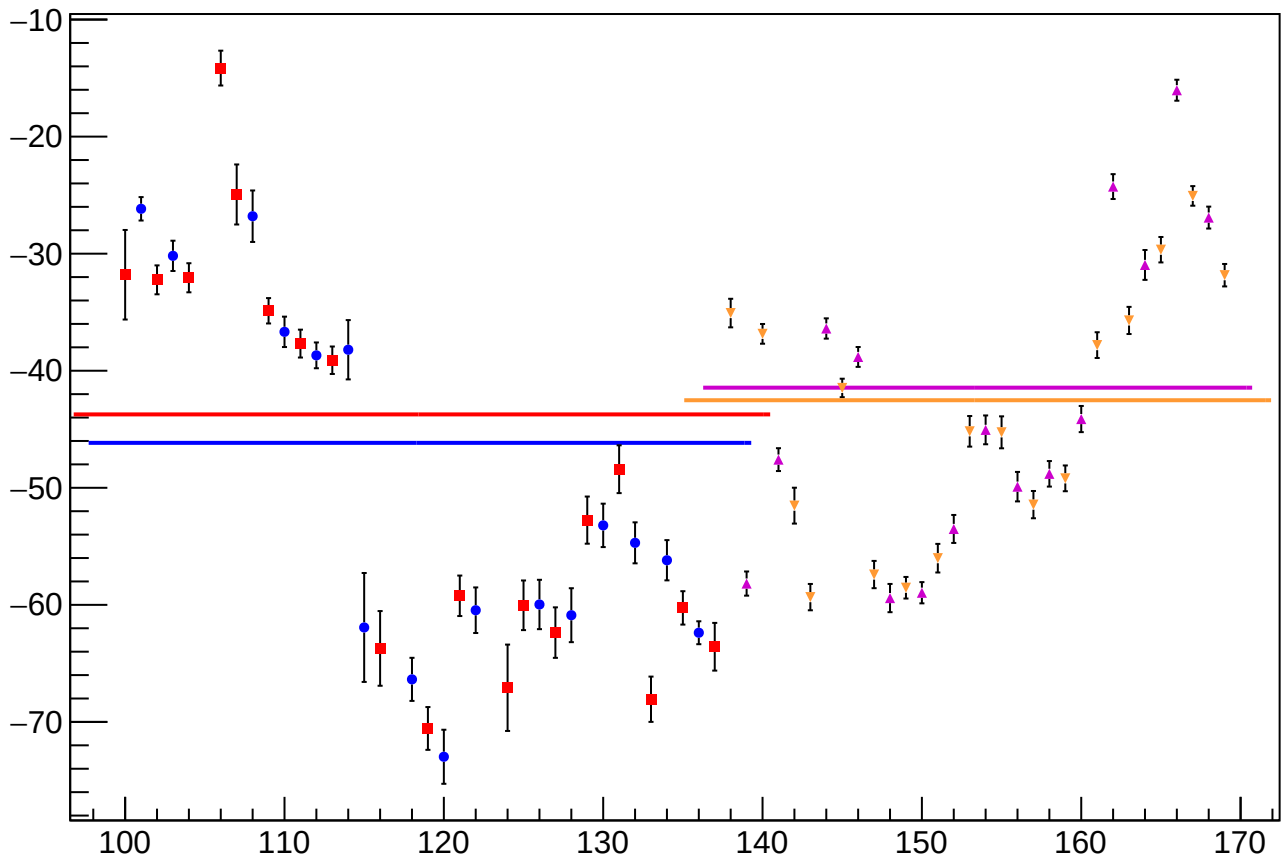
Right: 33.407 $\pm$ 0.264 χ^2 /NDF: 2062.9/34

In: 33.094 $\pm$ 0.173 χ^2 /NDF: 1769.4/30

Out: 32.835 $\pm$ 0.166 χ^2 /NDF: 1873.8/35

All: 32.959 $\pm$ 0.120 χ^2 /NDF: 3644.4/66

reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -46.160 ± 0.390 χ^2/NDF : 1489.6/15

Left Out: -42.520 ± 0.257 χ^2/NDF : 1785.0/16

Right Out: -43.730 ± 0.378 χ^2/NDF : 1663.4/18

Left In: -41.446 ± 0.266 χ^2/NDF : 2522.4/14

Left: -42.001 ± 0.185 χ^2/NDF : 4315.9/31

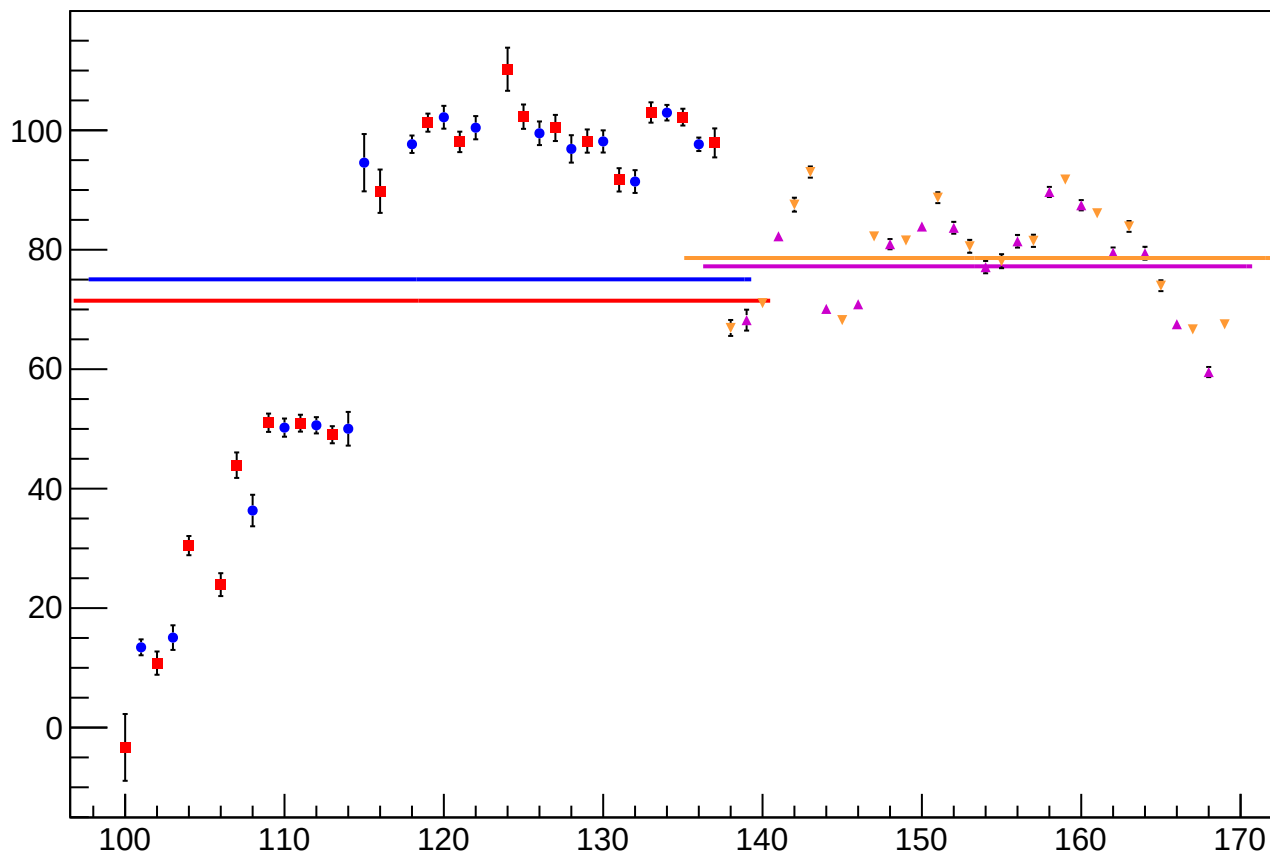
Right: -44.909 ± 0.271 χ^2/NDF : 3173.0/34

In: -42.944 ± 0.220 χ^2/NDF : 4111.9/30

Out: -42.903 ± 0.213 χ^2/NDF : 3455.4/35

All: -42.923 ± 0.153 χ^2/NDF : 7567.3/66

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 75.042 $\pm$ 0.427 χ^2 /NDF: 5828.3/15

Left Out: 78.617 $\pm$ 0.214 χ^2 /NDF: 1710.9/16

Right Out: 71.468 $\pm$ 0.426 χ^2 /NDF: 5628.2/18

Left In: 77.222 $\pm$ 0.225 χ^2 /NDF: 1354.7/14

Left: 77.956 $\pm$ 0.155 χ^2 /NDF: 3085.7/31

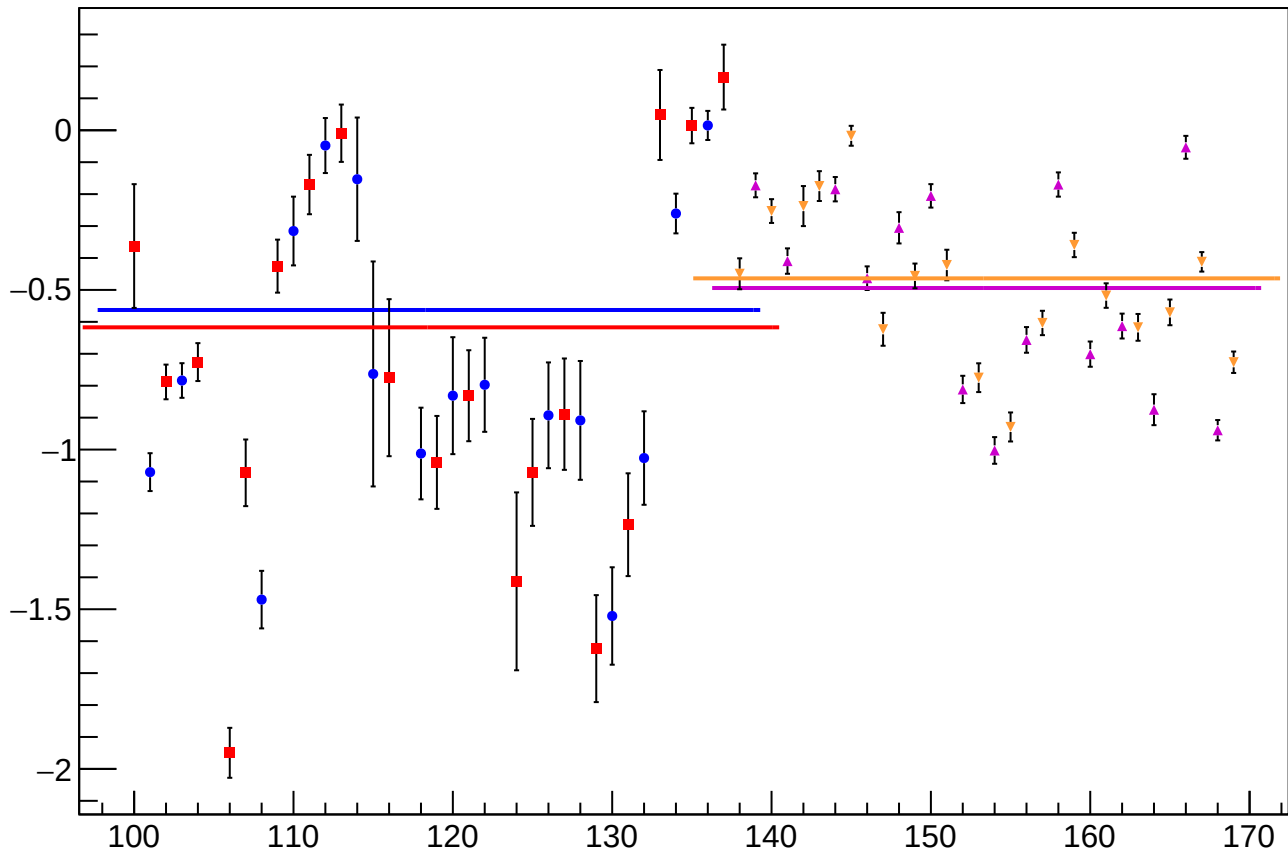
Right: 73.248 $\pm$ 0.302 χ^2 /NDF: 11491.6/34

In: 76.749 $\pm$ 0.199 χ^2 /NDF: 7203.3/30

Out: 77.178 $\pm$ 0.191 χ^2 /NDF: 7564.3/35

All: 76.972 $\pm$ 0.138 χ^2 /NDF: 14770.1/66

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.563 ± 0.022 $\chi^2/\text{NDF}: 493.0/15$

Left Out: -0.464 ± 0.010 $\chi^2/\text{NDF}: 558.5/16$

Right Out: -0.617 ± 0.022 $\chi^2/\text{NDF}: 690.0/18$

Left In: -0.494 ± 0.010 $\chi^2/\text{NDF}: 958.6/14$

Left: -0.478 ± 0.007 $\chi^2/\text{NDF}: 1521.8/31$

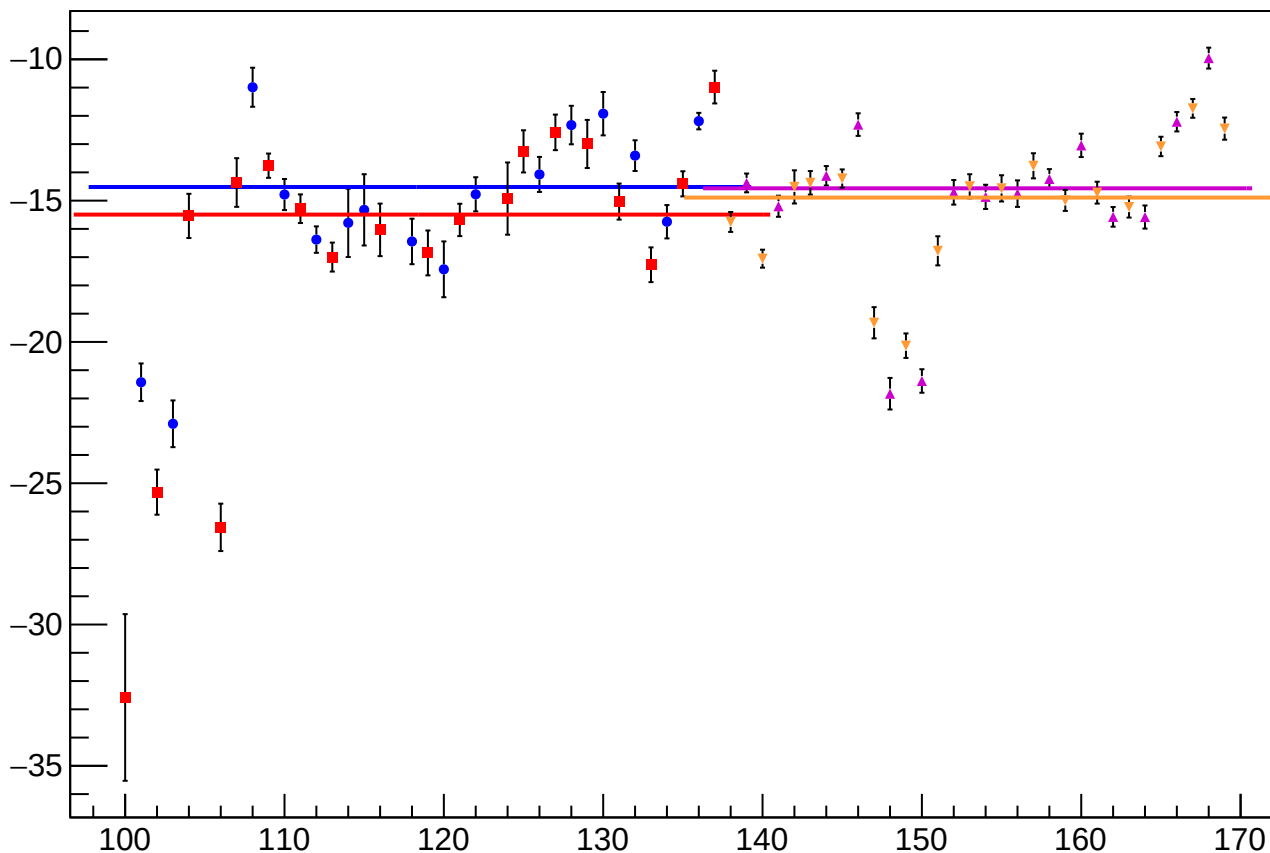
Right: -0.590 ± 0.016 $\chi^2/\text{NDF}: 1186.0/34$

In: -0.506 ± 0.009 $\chi^2/\text{NDF}: 1459.6/30$

Out: -0.489 ± 0.009 $\chi^2/\text{NDF}: 1288.6/35$

All: -0.497 ± 0.006 $\chi^2/\text{NDF}: 2750.0/66$

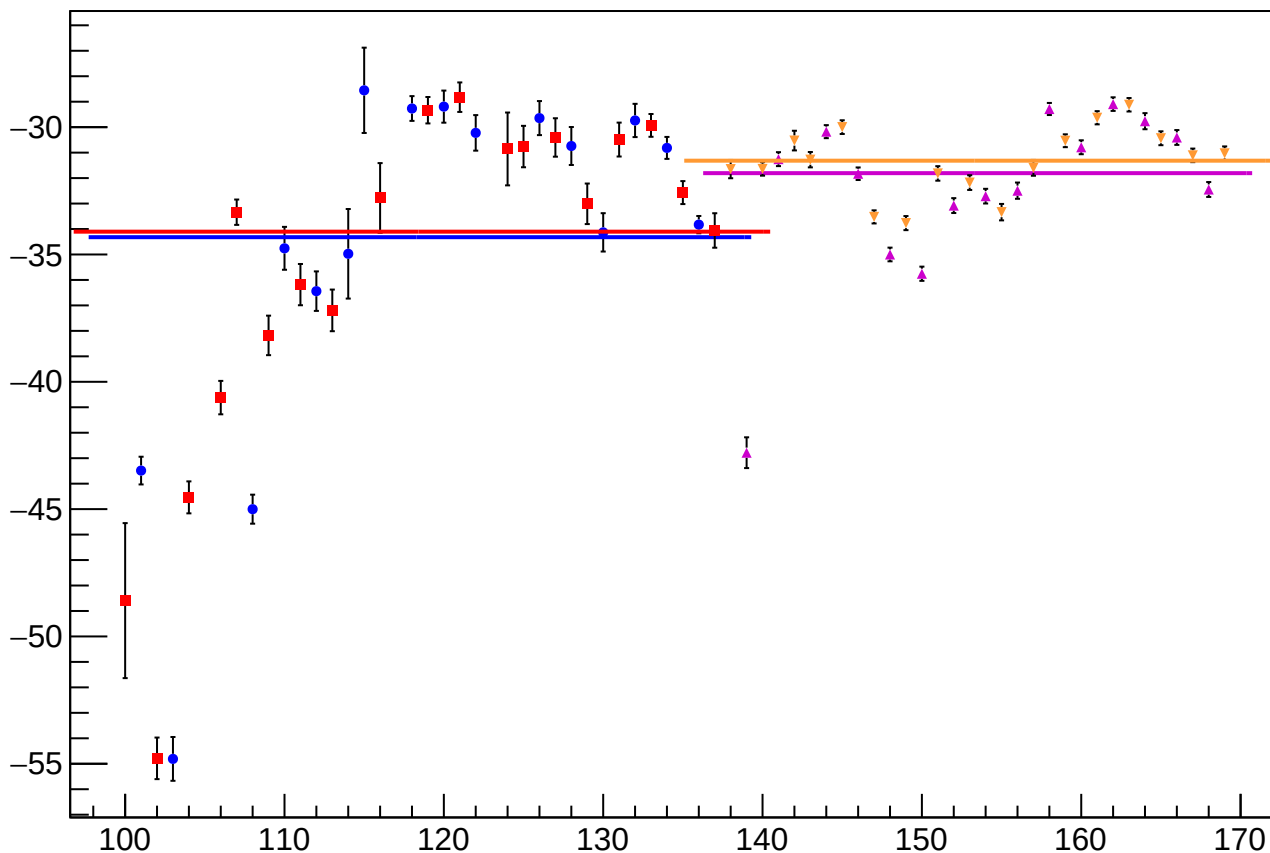
reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -14.518 ± 0.149 $\chi^2/\text{NDF}: 363.3/15$
 Left Out: -14.892 ± 0.096 $\chi^2/\text{NDF}: 448.4/16$
 Right Out: -15.494 ± 0.150 $\chi^2/\text{NDF}: 503.8/18$
 Left In: -14.564 ± 0.100 $\chi^2/\text{NDF}: 707.0/14$

Left: -14.736 ± 0.069 $\chi^2/\text{NDF}: 1161.0/31$
 Right: -15.004 ± 0.106 $\chi^2/\text{NDF}: 888.5/34$
 In: -14.550 ± 0.083 $\chi^2/\text{NDF}: 1070.4/30$
 Out: -15.066 ± 0.081 $\chi^2/\text{NDF}: 963.7/35$
 All: -14.816 ± 0.058 $\chi^2/\text{NDF}: 2054.0/66$

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -34.321 ± 0.153 $\chi^2/\text{NDF}: 1620.5/15$

Left Out: -31.316 ± 0.069 $\chi^2/\text{NDF}: 367.2/16$

Right Out: -34.104 ± 0.154 $\chi^2/\text{NDF}: 1434.8/18$

Left In: -31.806 ± 0.073 $\chi^2/\text{NDF}: 1048.2/14$

Left: -31.546 ± 0.050 $\chi^2/\text{NDF}: 1439.2/31$

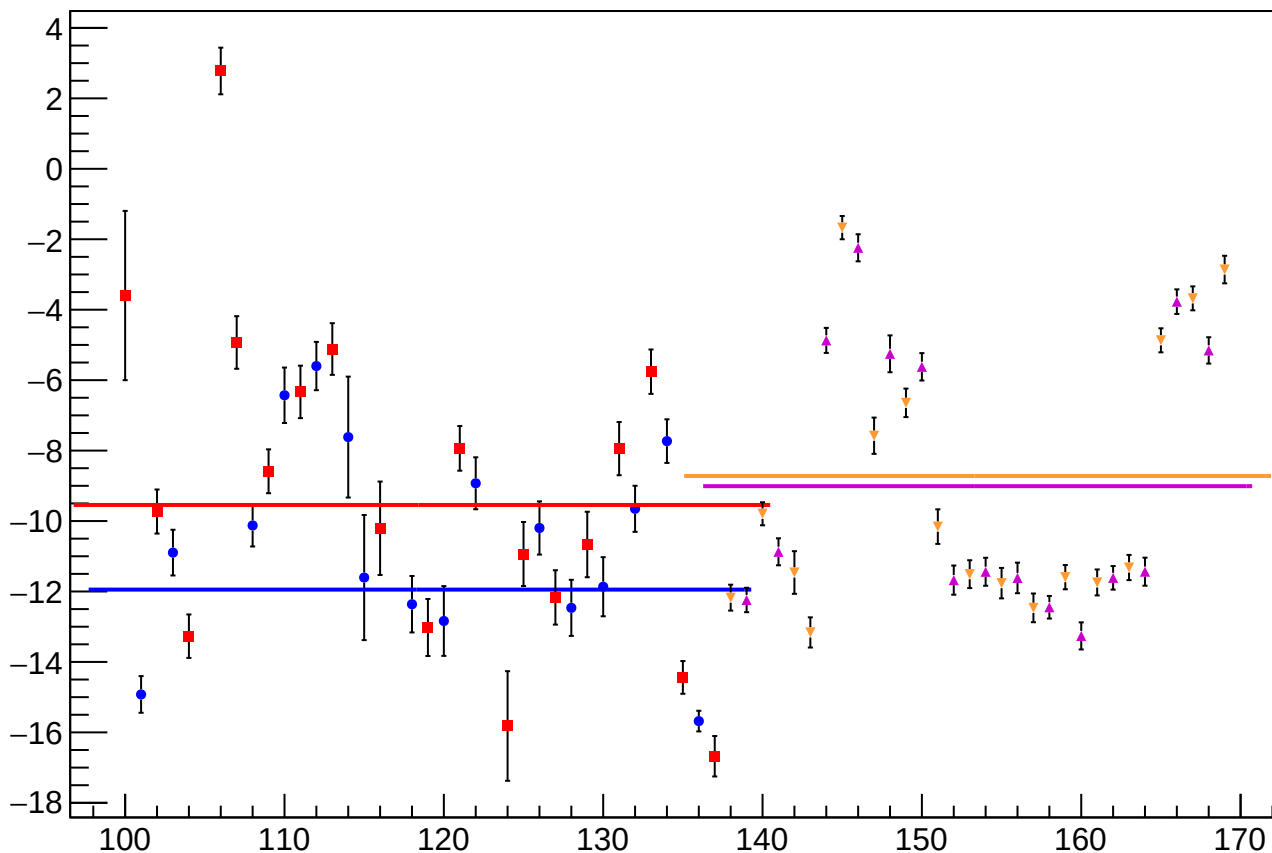
Right: -34.213 ± 0.109 $\chi^2/\text{NDF}: 3056.3/34$

In: -32.273 ± 0.066 $\chi^2/\text{NDF}: 2887.9/30$

Out: -31.779 ± 0.063 $\chi^2/\text{NDF}: 2074.8/35$

All: -32.013 ± 0.046 $\chi^2/\text{NDF}: 4992.2/66$

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -11.946 ± 0.160 $\chi^2/\text{NDF}: 430.0/15$

Left Out: -8.720 ± 0.094 $\chi^2/\text{NDF}: 1668.1/16$

Right Out: -9.544 ± 0.165 $\chi^2/\text{NDF}: 847.1/18$

Left In: -9.010 ± 0.098 $\chi^2/\text{NDF}: 1463.9/14$

Left: -8.859 ± 0.068 $\chi^2/\text{NDF}: 3136.6/31$

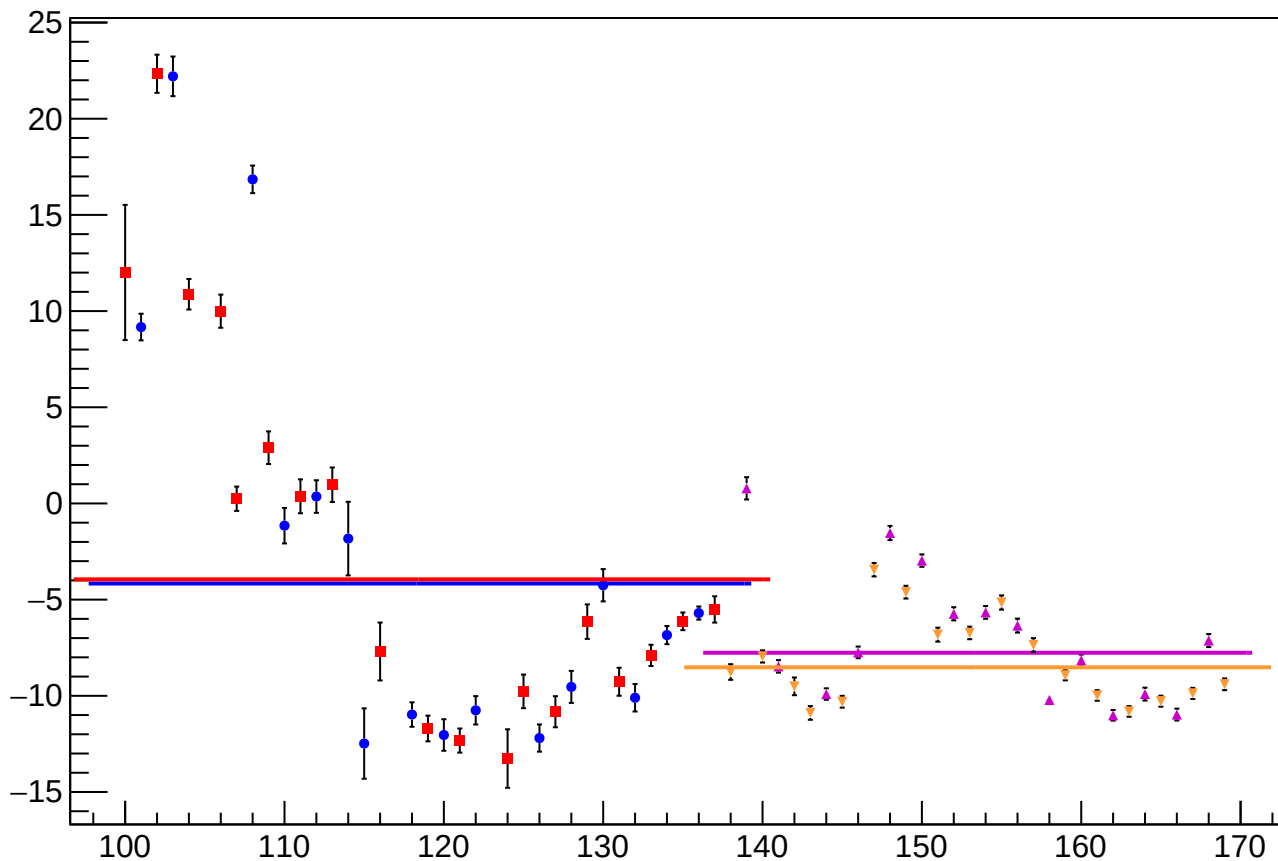
Right: -10.782 ± 0.115 $\chi^2/\text{NDF}: 1386.2/34$

In: -9.807 ± 0.083 $\chi^2/\text{NDF}: 2138.9/30$

Out: -8.922 ± 0.082 $\chi^2/\text{NDF}: 2533.9/35$

All: -9.355 ± 0.058 $\chi^2/\text{NDF}: 4730.4/66$

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -4.163 ± 0.172 $\chi^2/\text{NDF}: 2525.0/15$

Left Out: -8.519 ± 0.078 $\chi^2/\text{NDF}: 745.1/16$

Right Out: -3.947 ± 0.176 $\chi^2/\text{NDF}: 2110.2/18$

Left In: -7.762 ± 0.083 $\chi^2/\text{NDF}: 1253.2/14$

Left: -8.164 ± 0.057 $\chi^2/\text{NDF}: 2042.4/31$

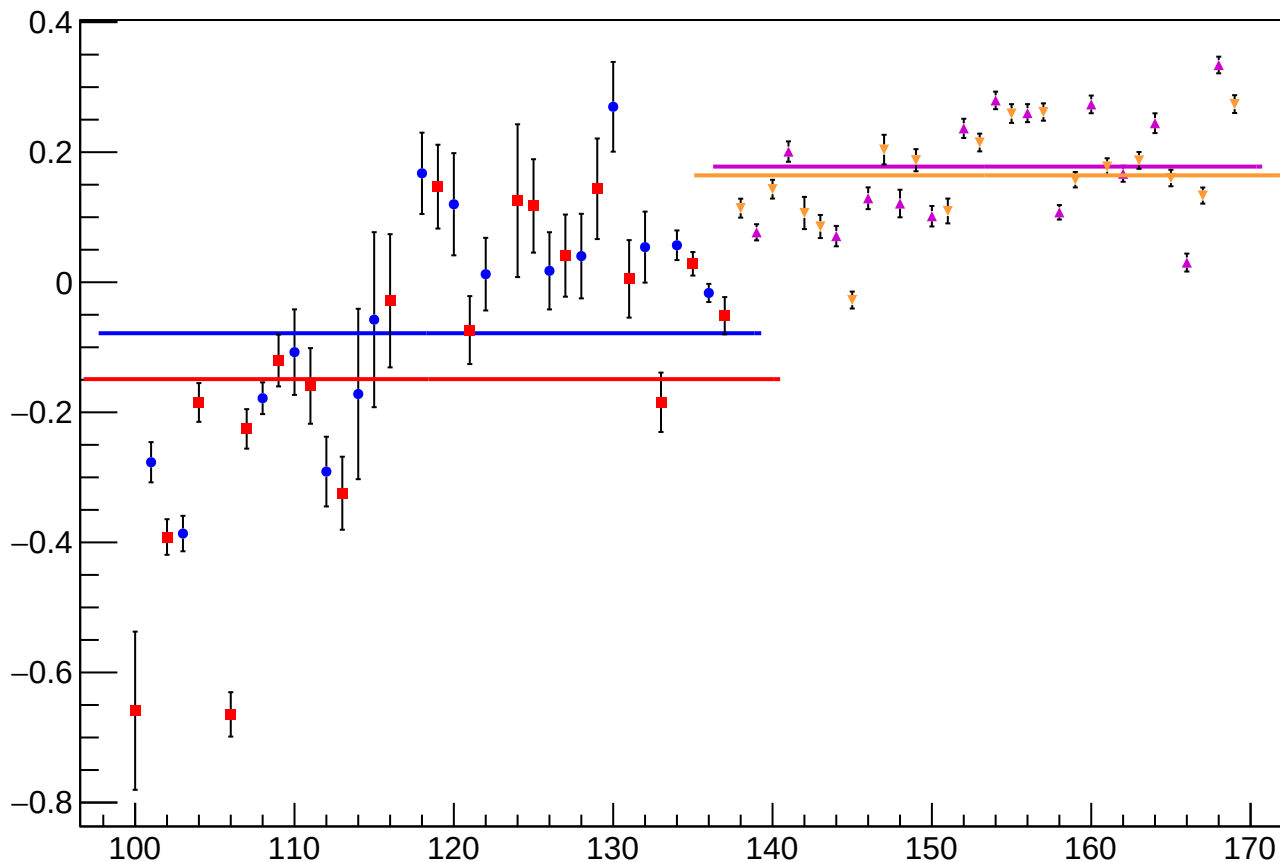
Right: -4.057 ± 0.123 $\chi^2/\text{NDF}: 4636.0/34$

In: -7.081 ± 0.075 $\chi^2/\text{NDF}: 4133.5/30$

Out: -7.766 ± 0.071 $\chi^2/\text{NDF}: 3418.8/35$

All: -7.439 ± 0.052 $\chi^2/\text{NDF}: 7596.1/66$

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.078 ± 0.009 χ^2/NDF : 318.8/15

Left Out: 0.164 ± 0.004 χ^2/NDF : 453.9/16

Right Out: -0.149 ± 0.009 χ^2/NDF : 524.8/18

Left In: 0.178 ± 0.004 χ^2/NDF : 633.8/14

Left: 0.171 ± 0.003 χ^2/NDF : 1094.8/31

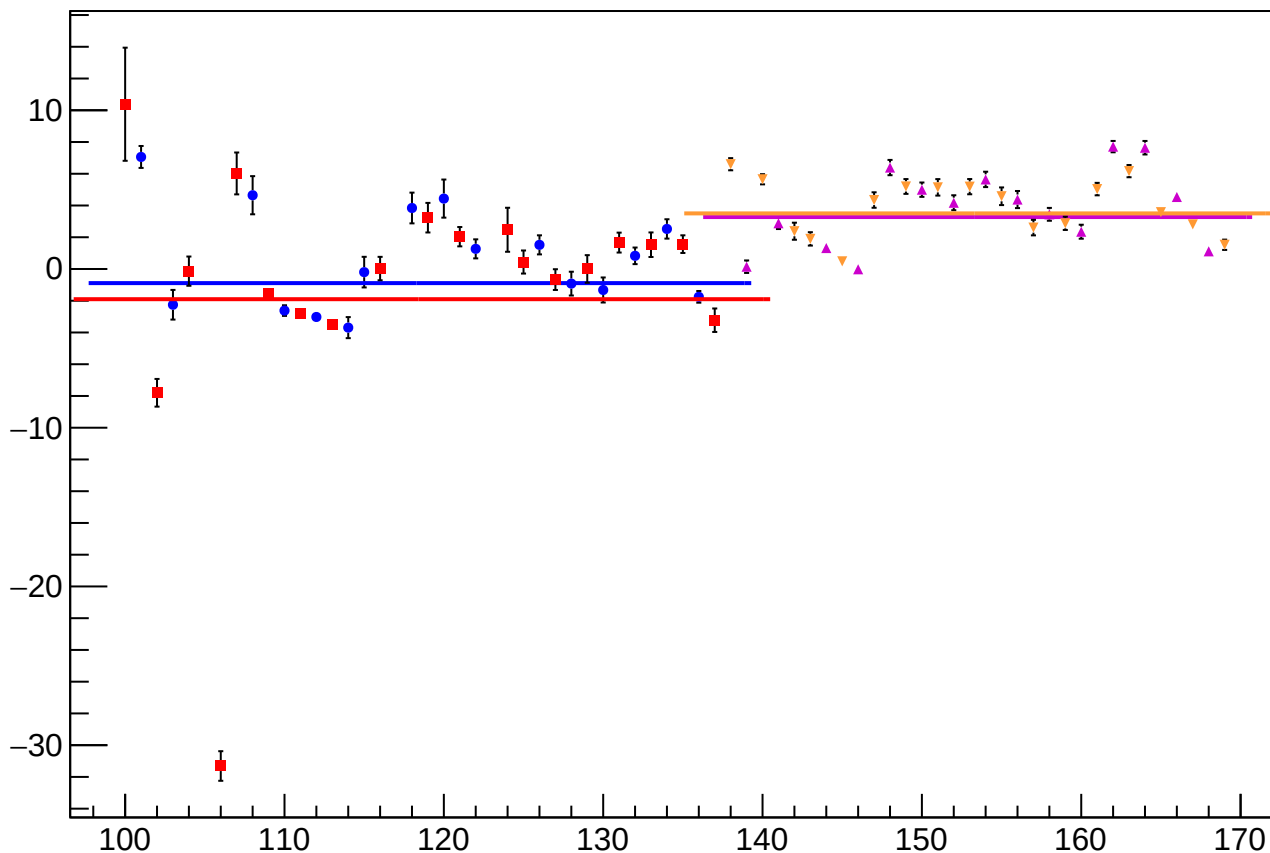
Right: -0.112 ± 0.006 χ^2/NDF : 875.6/34

In: 0.139 ± 0.003 χ^2/NDF : 1709.9/30

Out: 0.124 ± 0.003 χ^2/NDF : 2016.0/35

All: 0.131 ± 0.002 χ^2/NDF : 3736.3/66

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.889 ± 0.137 χ^2/NDF : 380.3/15

Left Out: 3.502 ± 0.092 χ^2/NDF : 435.9/16

Right Out: -1.903 ± 0.128 χ^2/NDF : 1331.8/18

Left In: 3.272 ± 0.096 χ^2/NDF : 658.8/14

Left: 3.393 ± 0.066 χ^2/NDF : 1097.6/31

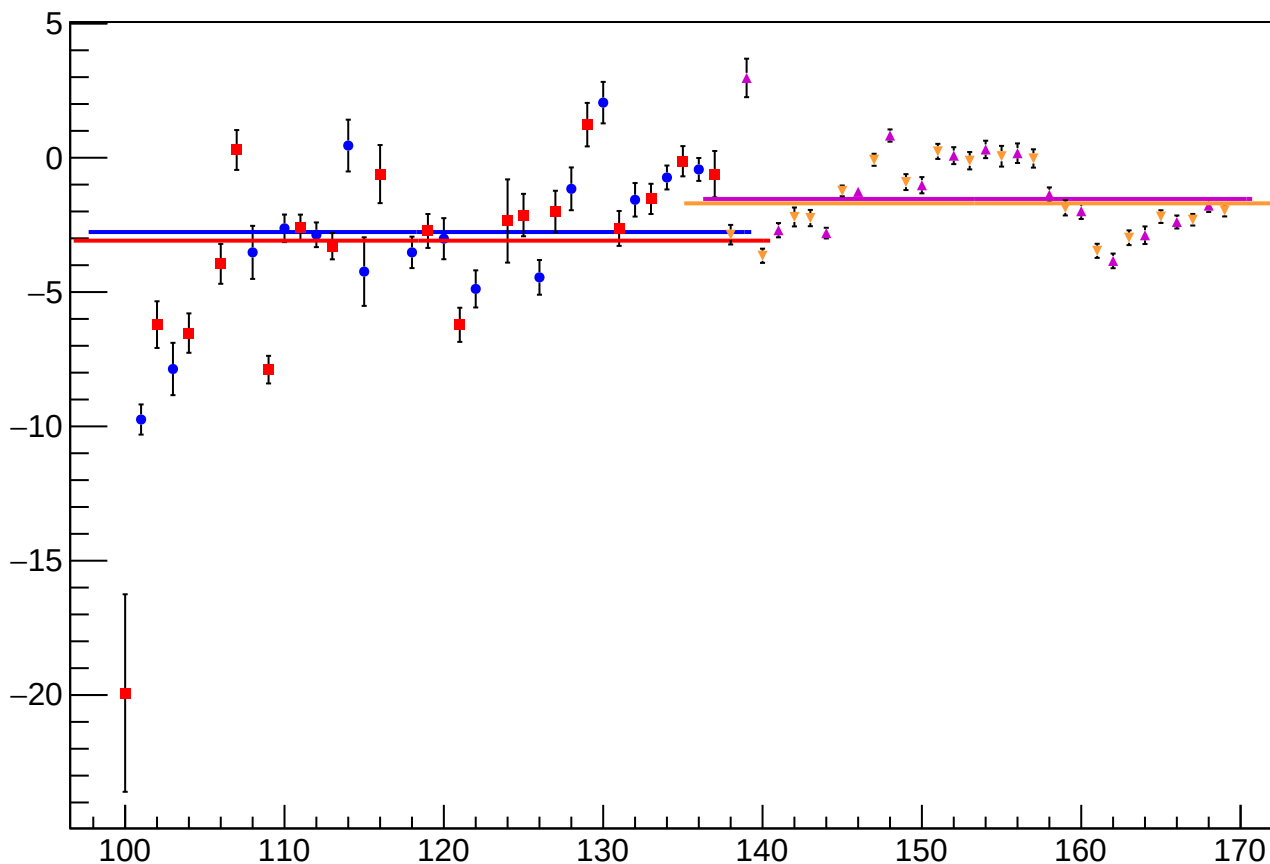
Right: -1.428 ± 0.094 χ^2/NDF : 1741.3/34

In: 1.892 ± 0.079 χ^2/NDF : 1659.3/30

Out: 1.680 ± 0.075 χ^2/NDF : 2943.3/35

All: 1.780 ± 0.054 χ^2/NDF : 4606.3/66

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.766 ± 0.156 χ^2/NDF : 310.1/15

Left Out: -1.698 ± 0.065 χ^2/NDF : 332.1/16

Right Out: -3.086 ± 0.158 χ^2/NDF : 272.5/18

Left In: -1.534 ± 0.068 χ^2/NDF : 396.8/14

Left: -1.620 ± 0.047 χ^2/NDF : 731.9/31

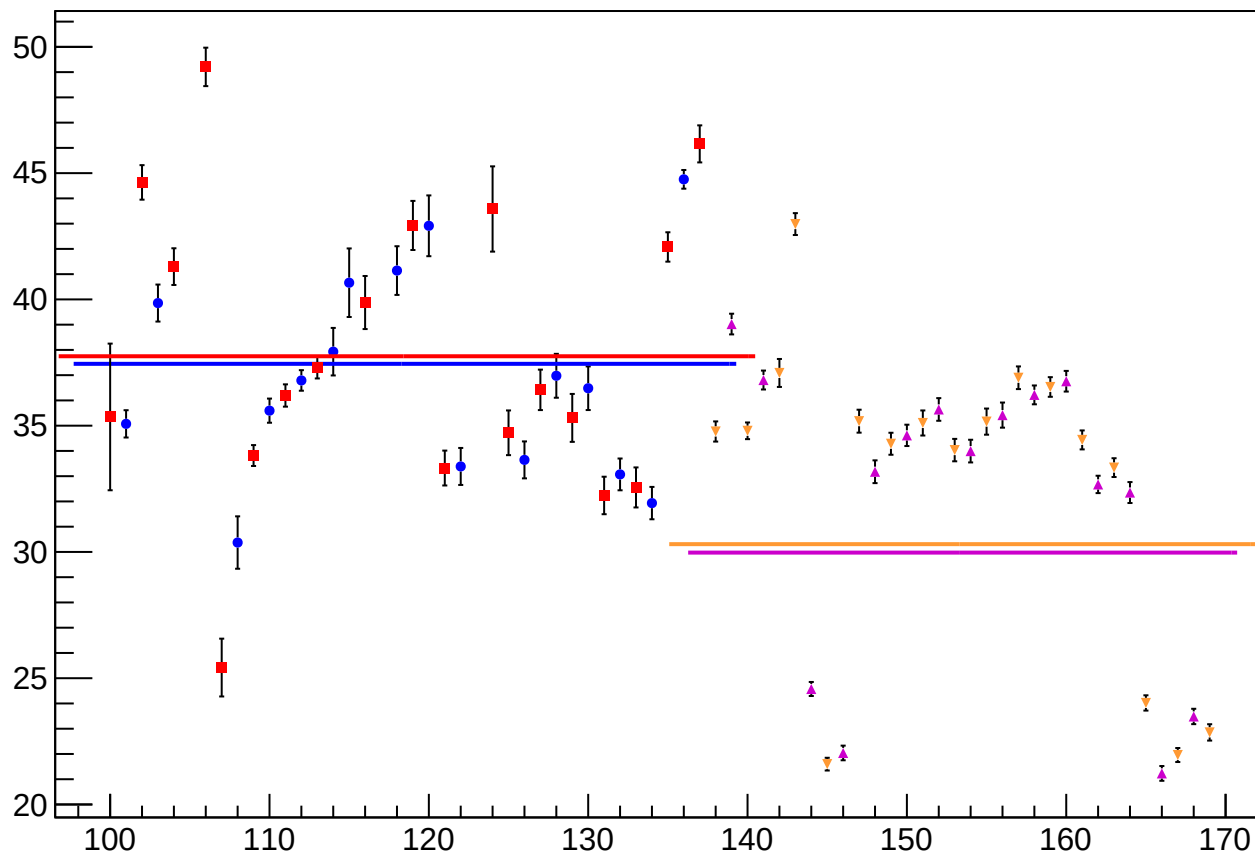
Right: -2.925 ± 0.111 χ^2/NDF : 584.6/34

In: -1.732 ± 0.063 χ^2/NDF : 759.0/30

Out: -1.902 ± 0.060 χ^2/NDF : 670.8/35

All: -1.820 ± 0.043 χ^2/NDF : 1433.6/66

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 37.449 ± 0.161 $\chi^2/\text{NDF}: 706.9/15$

Left Out: 30.308 ± 0.091 $\chi^2/\text{NDF}: 5483.5/16$

Right Out: 37.749 ± 0.159 $\chi^2/\text{NDF}: 963.6/18$

Left In: 29.974 ± 0.094 $\chi^2/\text{NDF}: 4475.8/14$

Left: 30.148 ± 0.065 $\chi^2/\text{NDF}: 9965.8/31$

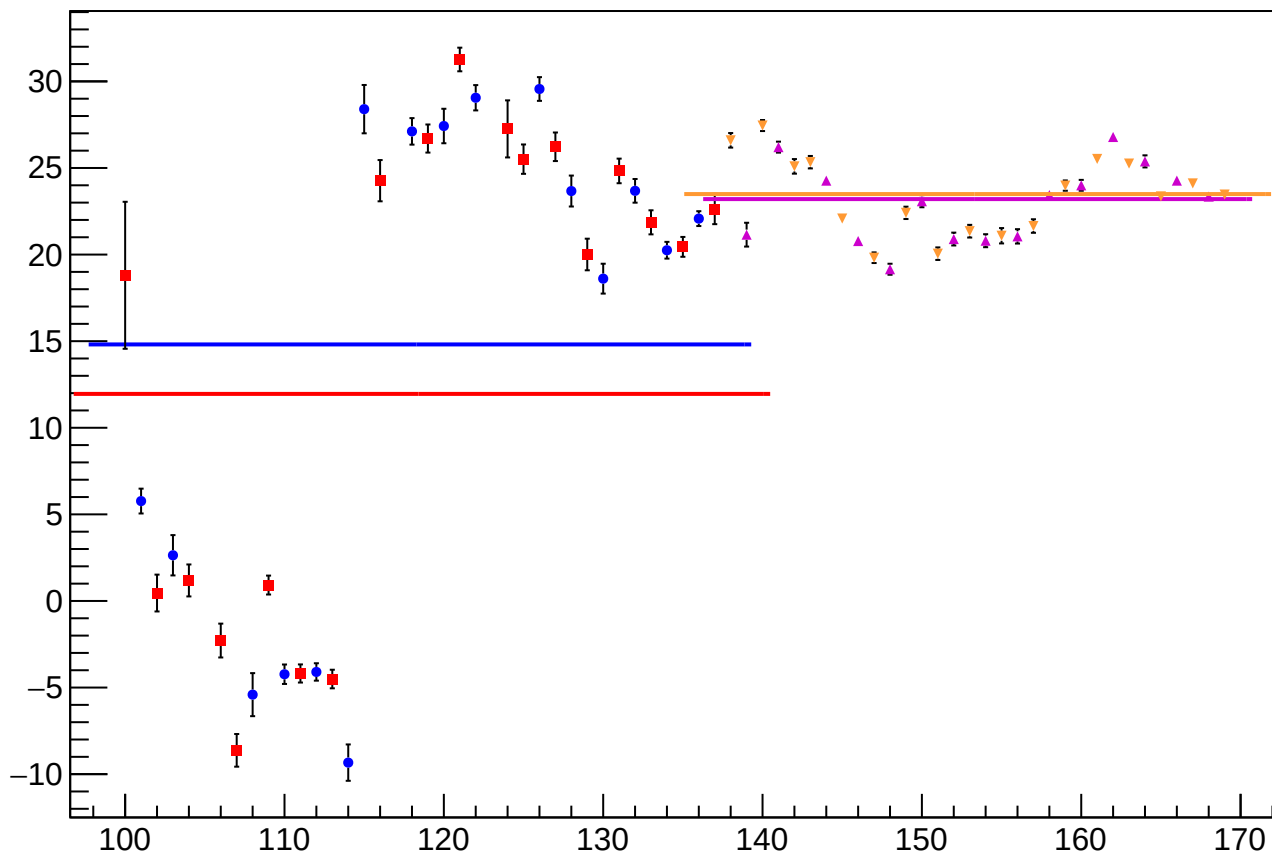
Right: 37.600 ± 0.113 $\chi^2/\text{NDF}: 1672.3/34$

In: 31.889 ± 0.081 $\chi^2/\text{NDF}: 6791.4/30$

Out: 32.122 ± 0.079 $\chi^2/\text{NDF}: 8094.6/35$

All: 32.010 ± 0.057 $\chi^2/\text{NDF}: 14890.2/66$

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 14.812 $\pm$ 0.174 χ^2 /NDF: 5686.4/15

Left Out: 23.494 $\pm$ 0.075 χ^2 /NDF: 715.1/16

Right Out: 11.955 $\pm$ 0.177 χ^2 /NDF: 6105.5/18

Left In: 23.203 $\pm$ 0.079 χ^2 /NDF: 730.7/14

Left: 23.357 $\pm$ 0.054 χ^2 /NDF: 1453.0/31

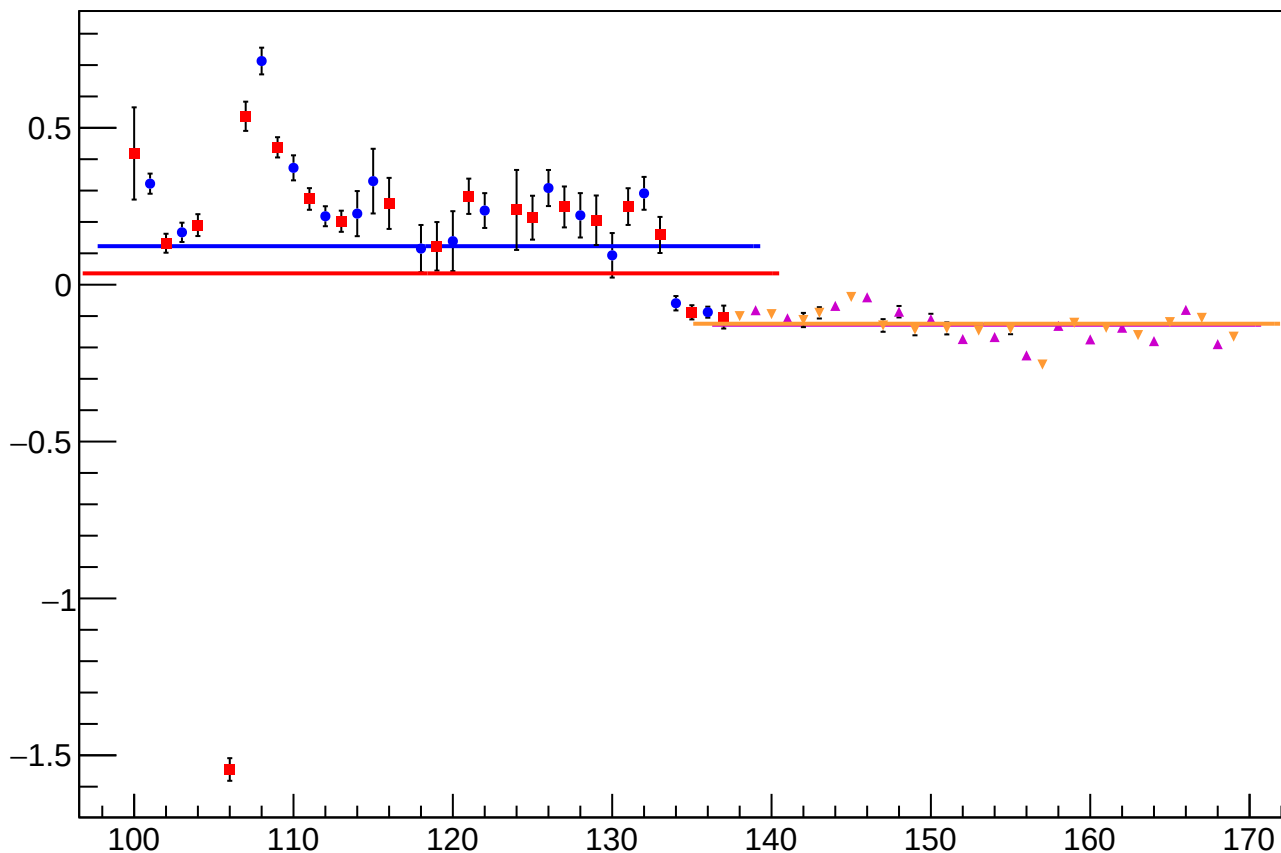
Right: 13.408 $\pm$ 0.124 χ^2 /NDF: 11924.5/34

In: 21.765 $\pm$ 0.072 χ^2 /NDF: 8346.8/30

Out: 21.745 $\pm$ 0.069 χ^2 /NDF: 10433.6/35

All: 21.755 $\pm$ 0.050 χ^2 /NDF: 18780.5/66

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.123 ± 0.009 $\chi^2/\text{NDF}: 520.0/15$

Left Out: -0.124 ± 0.003 $\chi^2/\text{NDF}: 191.5/16$

Right Out: 0.036 ± 0.010 $\chi^2/\text{NDF}: 2414.7/18$

Left In: -0.128 ± 0.004 $\chi^2/\text{NDF}: 217.3/14$

Left: -0.126 ± 0.002 $\chi^2/\text{NDF}: 409.2/31$

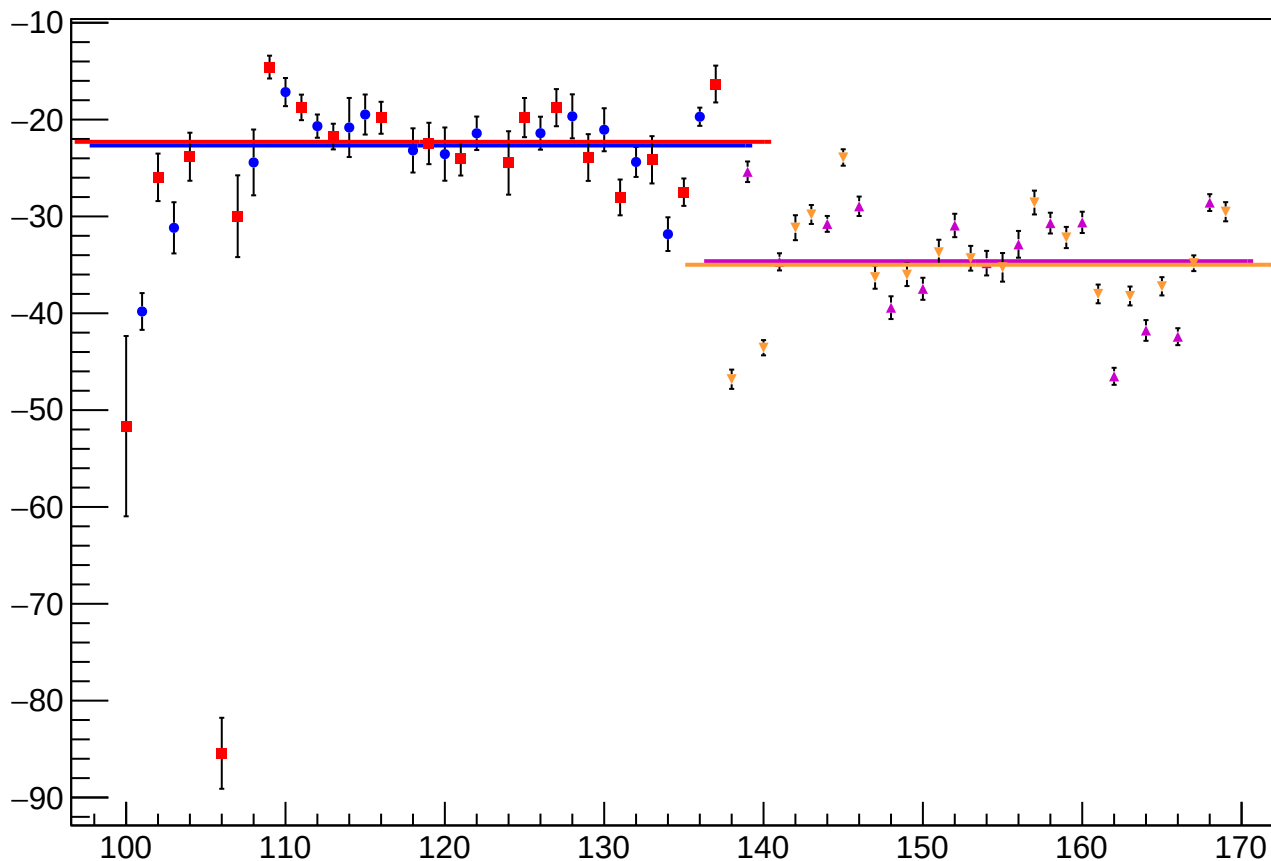
Right: 0.081 ± 0.007 $\chi^2/\text{NDF}: 2975.5/34$

In: -0.096 ± 0.003 $\chi^2/\text{NDF}: 1356.5/30$

Out: -0.107 ± 0.003 $\chi^2/\text{NDF}: 2846.8/35$

All: -0.102 ± 0.002 $\chi^2/\text{NDF}: 4208.9/66$

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -22.675 ± 0.435 χ^2/NDF : 154.4/15

Left Out: -34.989 ± 0.250 χ^2/NDF : 560.5/16

Right Out: -22.295 ± 0.435 χ^2/NDF : 405.5/18

Left In: -34.623 ± 0.263 χ^2/NDF : 546.0/14

Left: -34.815 ± 0.181 χ^2/NDF : 1107.5/31

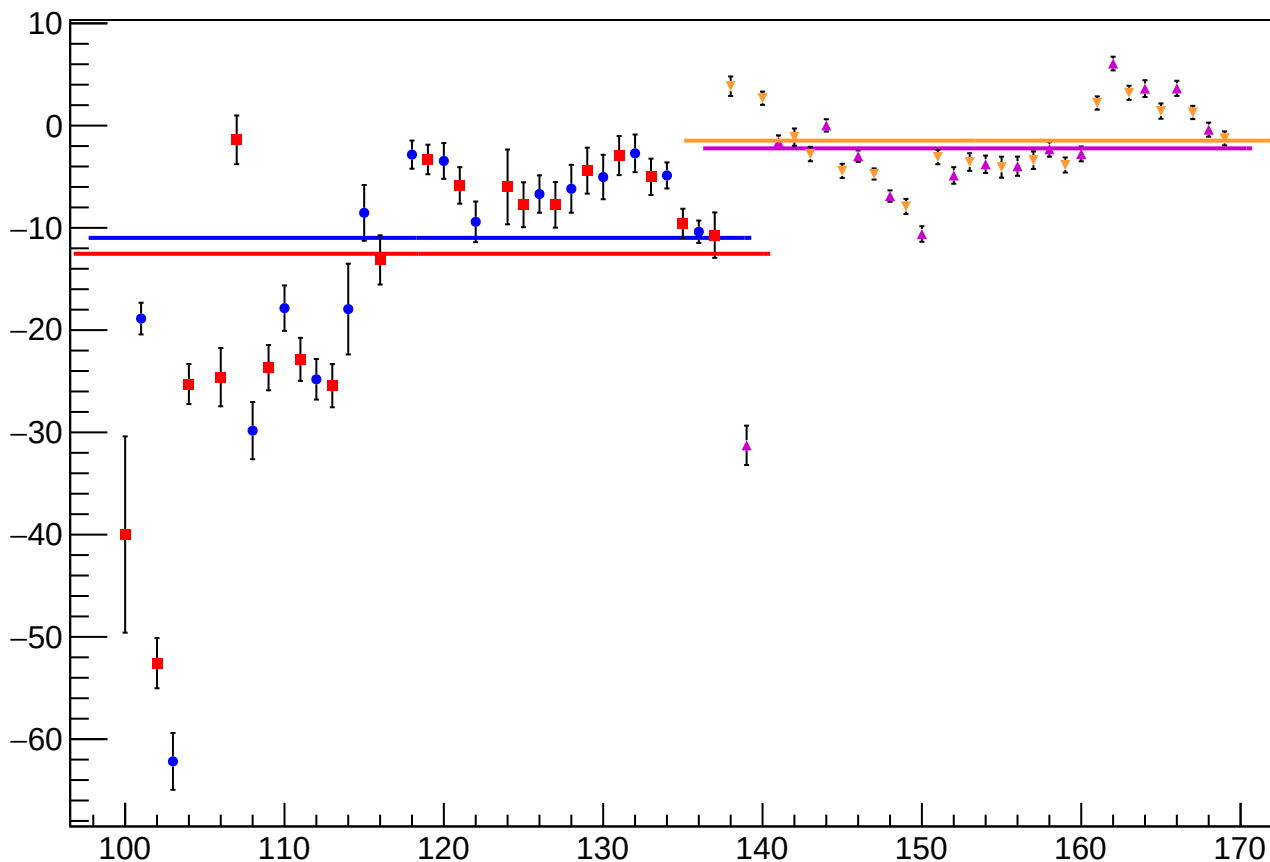
Right: -22.485 ± 0.307 χ^2/NDF : 560.3/34

In: -31.420 ± 0.225 χ^2/NDF : 1253.8/30

Out: -31.843 ± 0.217 χ^2/NDF : 1606.0/35

All: -31.639 ± 0.156 χ^2/NDF : 2861.7/66

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -10.978 ± 0.453 $\chi^2/\text{NDF}: 587.3/15$

Left Out: -1.467 ± 0.176 $\chi^2/\text{NDF}: 348.2/16$

Right Out: -12.533 ± 0.481 $\chi^2/\text{NDF}: 572.3/18$

Left In: -2.226 ± 0.186 $\chi^2/\text{NDF}: 726.9/14$

Left: -1.826 ± 0.128 $\chi^2/\text{NDF}: 1083.8/31$

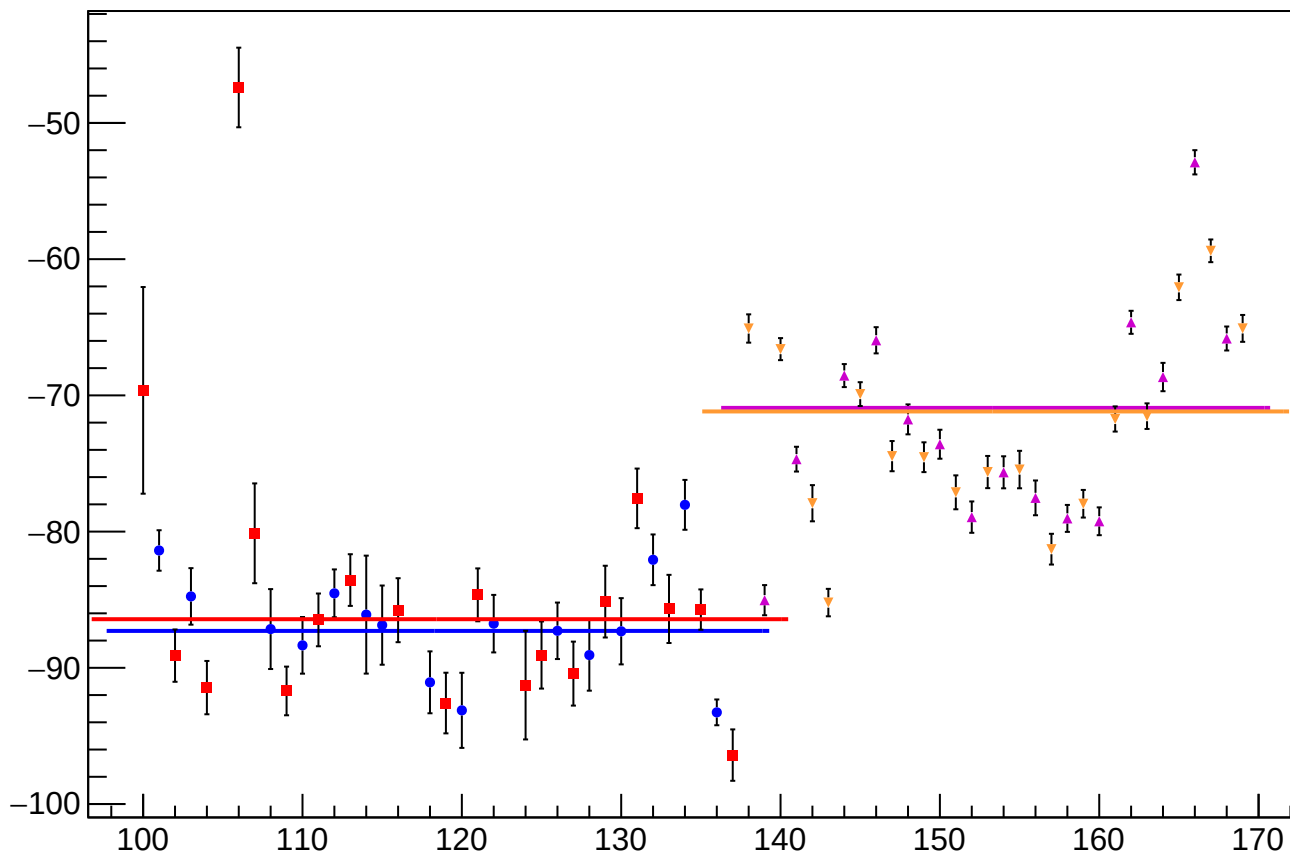
Right: -11.710 ± 0.330 $\chi^2/\text{NDF}: 1165.1/34$

In: -3.484 ± 0.172 $\chi^2/\text{NDF}: 1633.3/30$

Out: -2.770 ± 0.165 $\chi^2/\text{NDF}: 1387.3/35$

All: -3.112 ± 0.119 $\chi^2/\text{NDF}: 3029.5/66$

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected

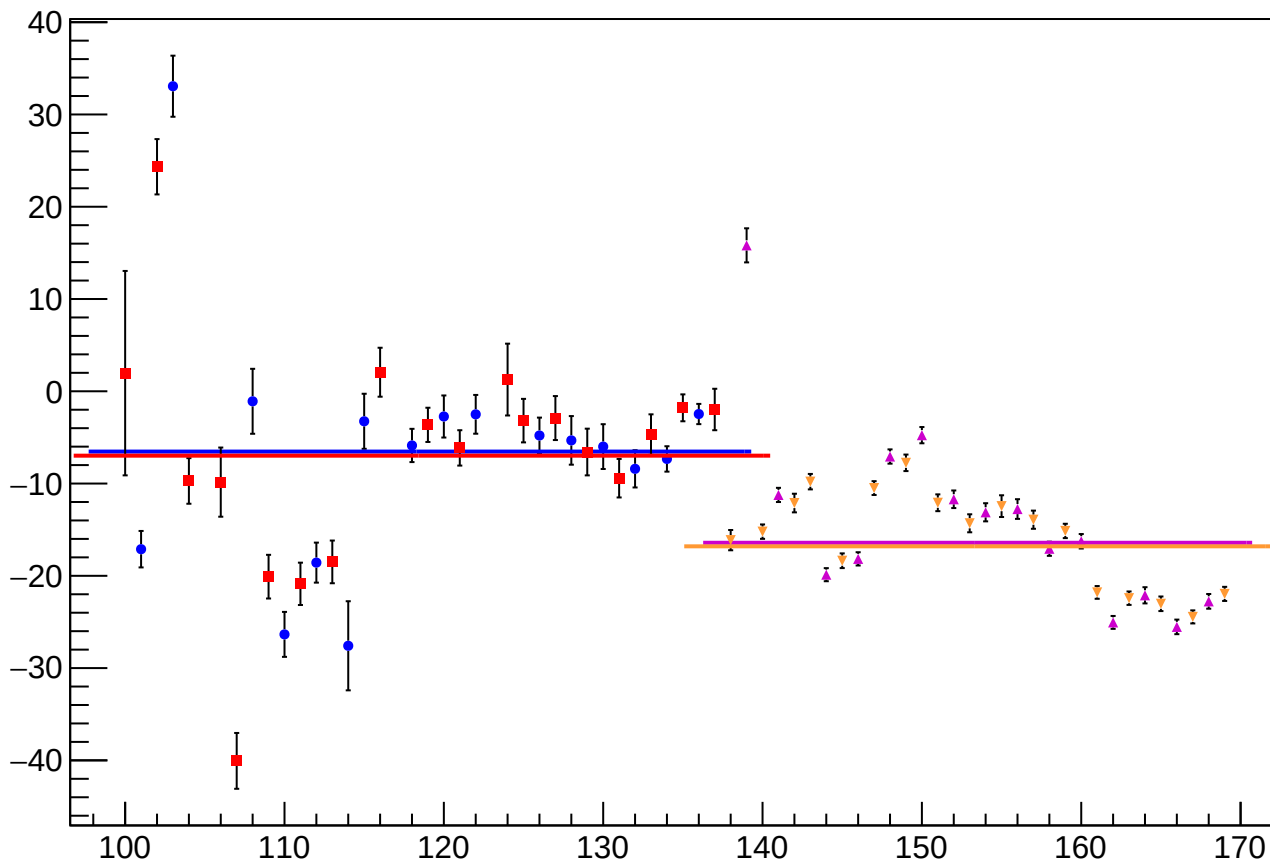


Right In: -87.291 ± 0.481 χ^2/NDF : 101.2/15
 Left Out: -71.180 ± 0.246 χ^2/NDF : 811.2/16
 Right Out: -86.431 ± 0.506 χ^2/NDF : 264.8/18
 Left In: -70.918 ± 0.257 χ^2/NDF : 949.8/14

Left: -71.055 ± 0.178 χ^2/NDF : 1761.5/31
 Right: -86.883 ± 0.348 χ^2/NDF : 367.6/34
 In: -74.554 ± 0.226 χ^2/NDF : 1953.9/30
 Out: -74.096 ± 0.221 χ^2/NDF : 1810.9/35

All: -74.320 ± 0.158 χ^2/NDF : 3766.9/66

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -6.535 ± 0.508 χ^2/NDF : 313.9/15

Left Out: -16.805 ± 0.202 χ^2/NDF : 669.4/16

Right Out: -6.979 ± 0.542 χ^2/NDF : 368.3/18

Left In: -16.419 ± 0.215 χ^2/NDF : 1140.6/14

Left: -16.623 ± 0.147 χ^2/NDF : 1811.6/31

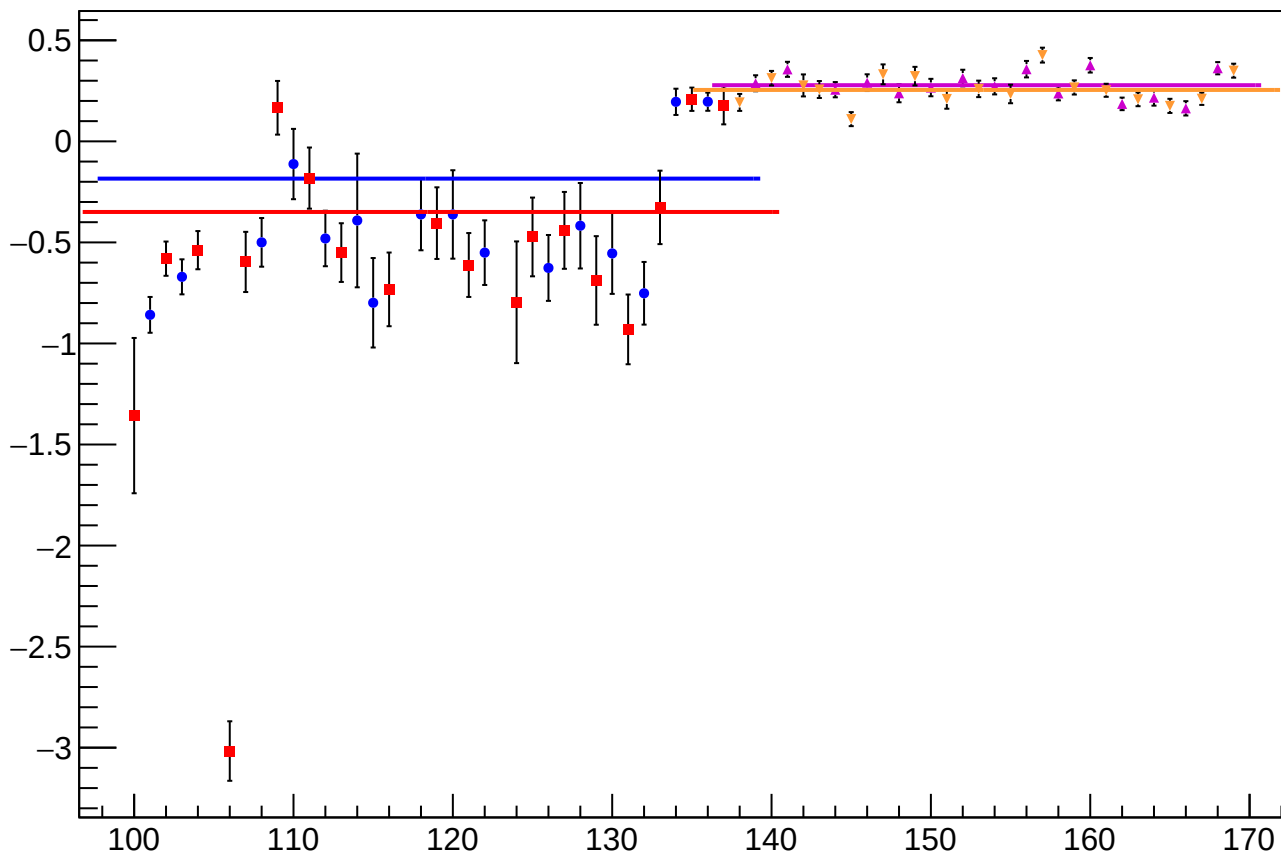
Right: -6.743 ± 0.370 χ^2/NDF : 682.6/34

In: -14.922 ± 0.198 χ^2/NDF : 1775.9/30

Out: -15.602 ± 0.190 χ^2/NDF : 1326.5/35

All: -15.276 ± 0.137 χ^2/NDF : 3108.5/66

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.184 ± 0.027 χ^2/NDF : 247.3/15

Left Out: 0.254 ± 0.009 χ^2/NDF : 66.5/16

Right Out: -0.349 ± 0.029 χ^2/NDF : 516.5/18

Left In: 0.278 ± 0.010 χ^2/NDF : 48.5/14

Left: 0.266 ± 0.007 χ^2/NDF : 118.2/31

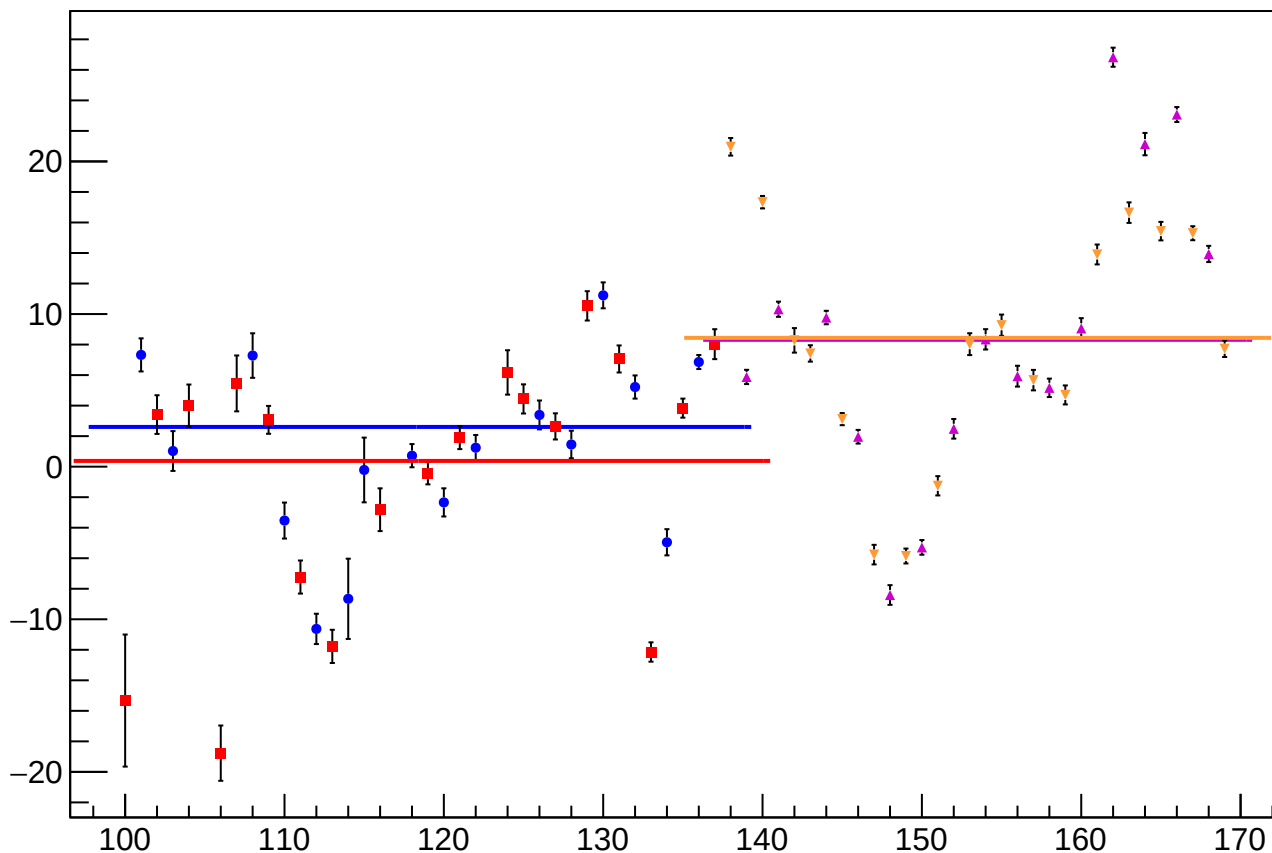
Right: -0.259 ± 0.020 χ^2/NDF : 781.1/34

In: 0.224 ± 0.009 χ^2/NDF : 559.6/30

Out: 0.199 ± 0.009 χ^2/NDF : 968.3/35

All: 0.211 ± 0.006 χ^2/NDF : 1531.9/66

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.604 ± 0.224 $\chi^2/\text{NDF}: 573.1/15$

Left Out: 8.441 ± 0.136 $\chi^2/\text{NDF}: 3343.6/16$

Right Out: 0.377 ± 0.222 $\chi^2/\text{NDF}: 1030.9/18$

Left In: 8.311 ± 0.142 $\chi^2/\text{NDF}: 4045.4/14$

Left: 8.379 ± 0.099 $\chi^2/\text{NDF}: 7389.4/31$

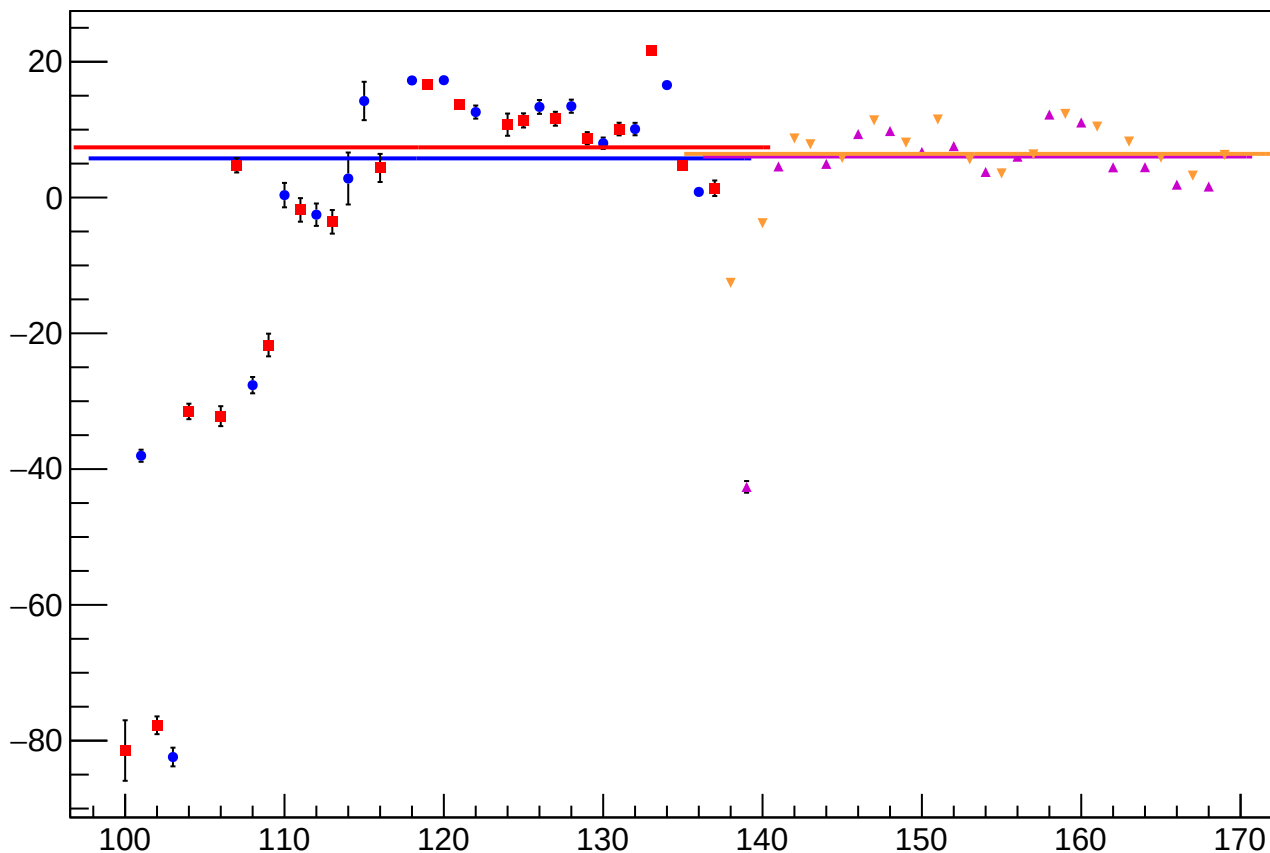
Right: 1.481 ± 0.158 $\chi^2/\text{NDF}: 1653.8/34$

In: 6.670 ± 0.120 $\chi^2/\text{NDF}: 5080.5/30$

Out: 6.234 ± 0.116 $\chi^2/\text{NDF}: 5330.7/35$

All: 6.445 ± 0.084 $\chi^2/\text{NDF}: 10418.0/66$

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.768 ± 0.210 χ^2/NDF : 8933.8/15

Left Out: 6.434 ± 0.097 χ^2/NDF : 2906.2/16

Right Out: 7.393 ± 0.209 χ^2/NDF : 8390.6/18

Left In: 6.045 ± 0.102 χ^2/NDF : 4153.1/14

Left: 6.250 ± 0.070 χ^2/NDF : 7066.9/31

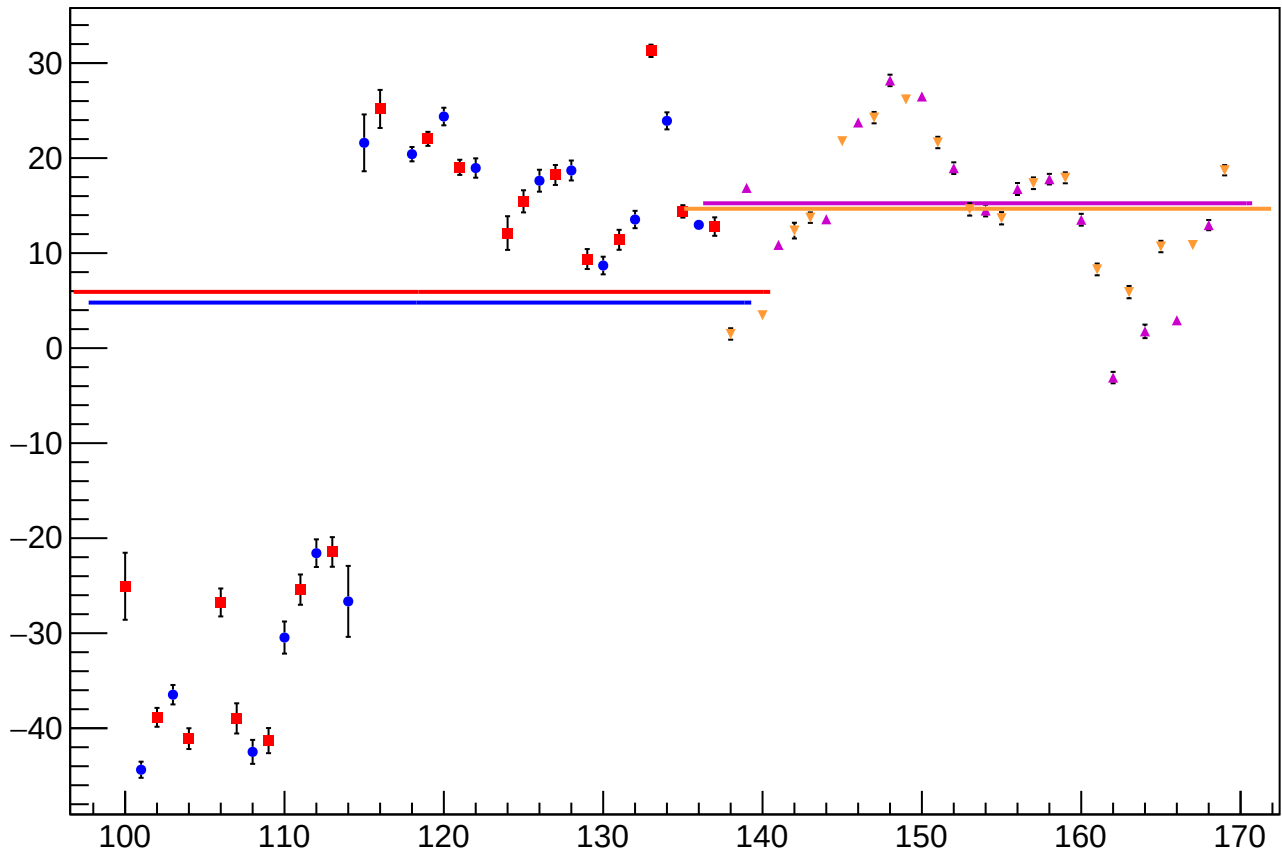
Right: 6.585 ± 0.148 χ^2/NDF : 17354.6/34

In: 5.992 ± 0.092 χ^2/NDF : 13088.3/30

Out: 6.603 ± 0.088 χ^2/NDF : 11314.1/35

All: 6.311 ± 0.063 χ^2/NDF : 24425.6/66

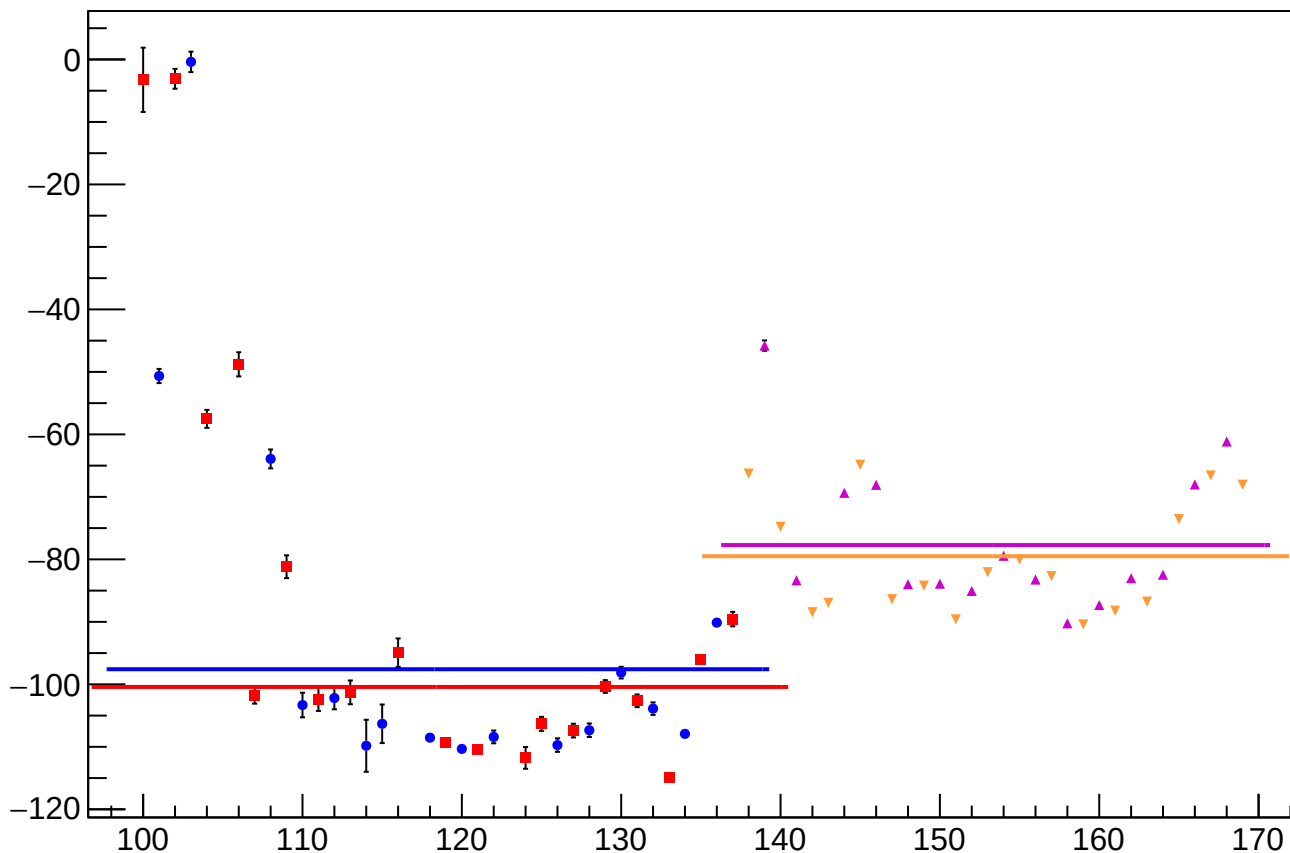
reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 4.794 ± 0.237 χ^2/NDF : 9496.9/15
 Left Out: 14.669 ± 0.134 χ^2/NDF : 3040.2/16
 Right Out: 5.921 ± 0.240 χ^2/NDF : 10059.4/18
 Left In: 15.245 ± 0.139 χ^2/NDF : 3551.3/14

Left: 14.947 ± 0.097 χ^2/NDF : 6600.4/31
 Right: 5.352 ± 0.169 χ^2/NDF : 19567.4/34
 In: 12.576 ± 0.120 χ^2/NDF : 14491.2/30
 Out: 12.583 ± 0.117 χ^2/NDF : 14112.4/35
 All: 12.580 ± 0.084 χ^2/NDF : 28603.6/66

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -97.581 ± 0.242 $\chi^2/\text{NDF}: 7144.2/15$

Left Out: -79.500 ± 0.112 $\chi^2/\text{NDF}: 6584.1/16$

Right Out: -100.418 ± 0.241 $\chi^2/\text{NDF}: 7115.7/18$

Left In: -77.711 ± 0.118 $\chi^2/\text{NDF}: 6802.4/14$

Left: -78.654 ± 0.081 $\chi^2/\text{NDF}: 13507.5/31$

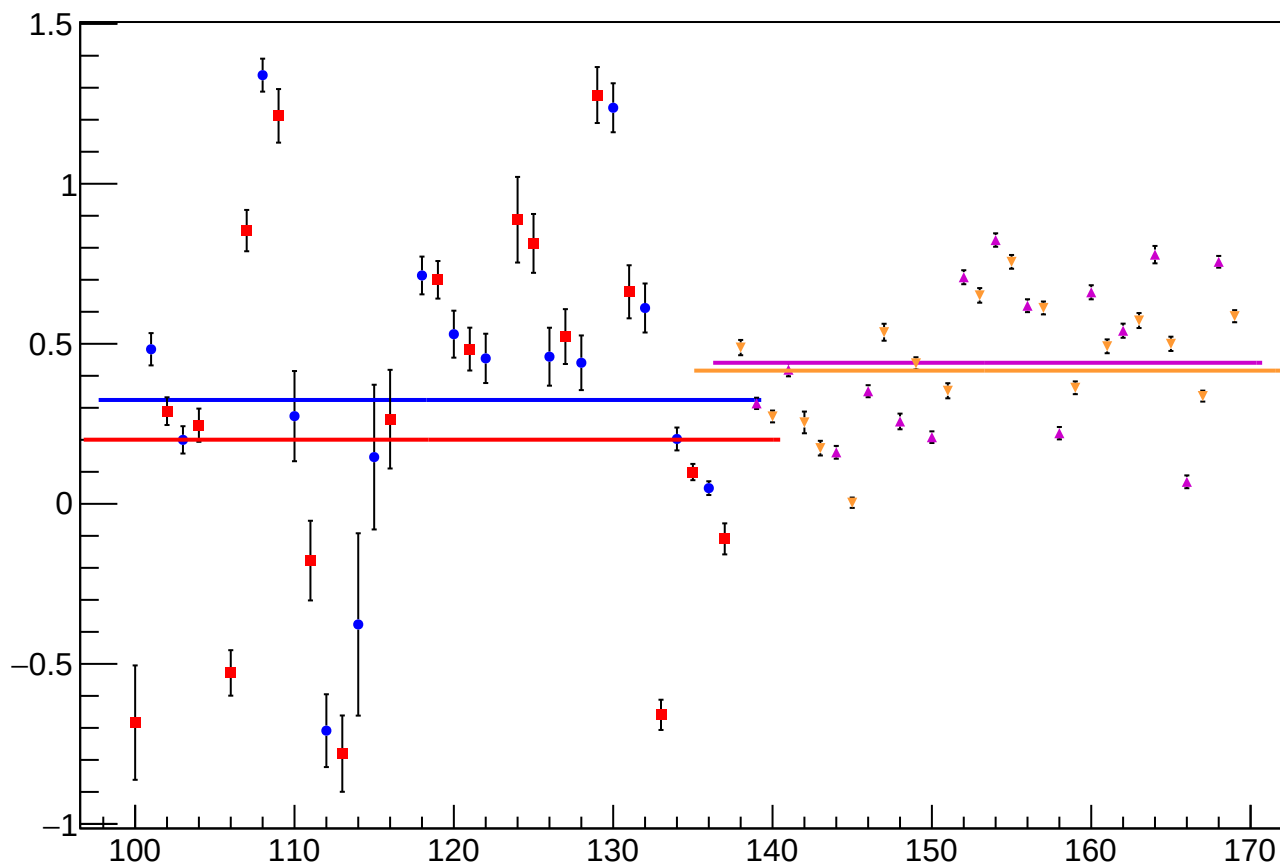
Right: -99.004 ± 0.171 $\chi^2/\text{NDF}: 14329.0/34$

In: -81.541 ± 0.106 $\chi^2/\text{NDF}: 19402.9/30$

Out: -83.205 ± 0.101 $\chi^2/\text{NDF}: 19900.5/35$

All: -82.410 ± 0.073 $\chi^2/\text{NDF}: 39431.9/66$

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.324 $\pm$ 0.013 χ^2 /NDF: 886.5/15

Left Out: 0.416 $\pm$ 0.005 χ^2 /NDF:1512.3/16

Right Out: 0.200 $\pm$ 0.014 χ^2 /NDF: 1206.3/18

Left In: 0.441 $\pm$ 0.005 χ^2 /NDF:2095.3/14

Left: 0.428 $\pm$ 0.004 χ^2 /NDF: 3618.8/31

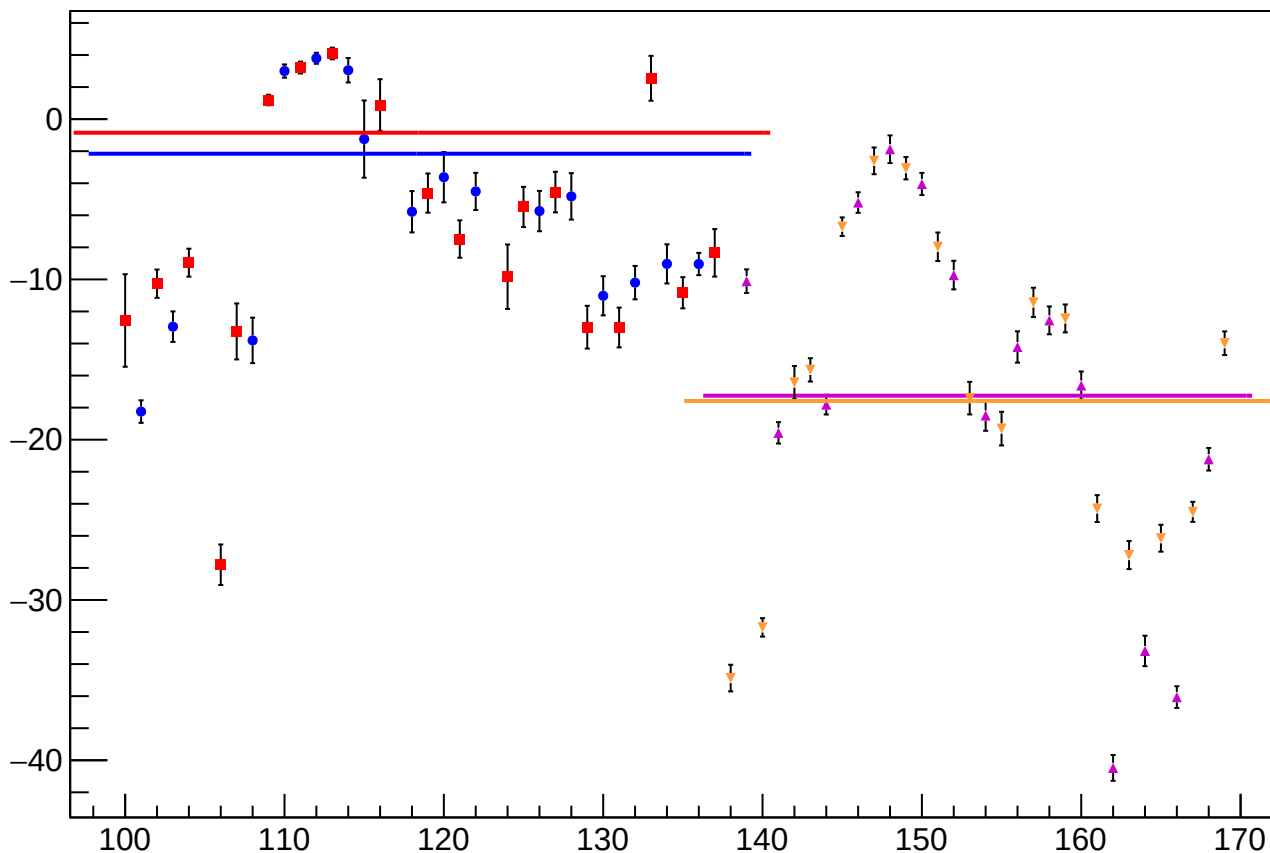
Right: 0.265 $\pm$ 0.010 χ^2 /NDF: 2134.6/34

In: 0.425 $\pm$ 0.005 χ^2 /NDF:3048.0/30

Out: 0.390 $\pm$ 0.005 χ^2 /NDF:2932.4/35

All: 0.407 $\pm$ 0.003 χ^2 /NDF: 6005.7/66

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -2.159 ± 0.192 χ^2/NDF : 1491.0/15

Left Out: -17.582 ± 0.189 χ^2/NDF : 2787.4/16

Right Out: -0.848 ± 0.170 χ^2/NDF : 1465.4/18

Left In: -17.254 ± 0.198 χ^2/NDF : 3172.2/14

Left: -17.426 ± 0.137 χ^2/NDF : 5961.0/31

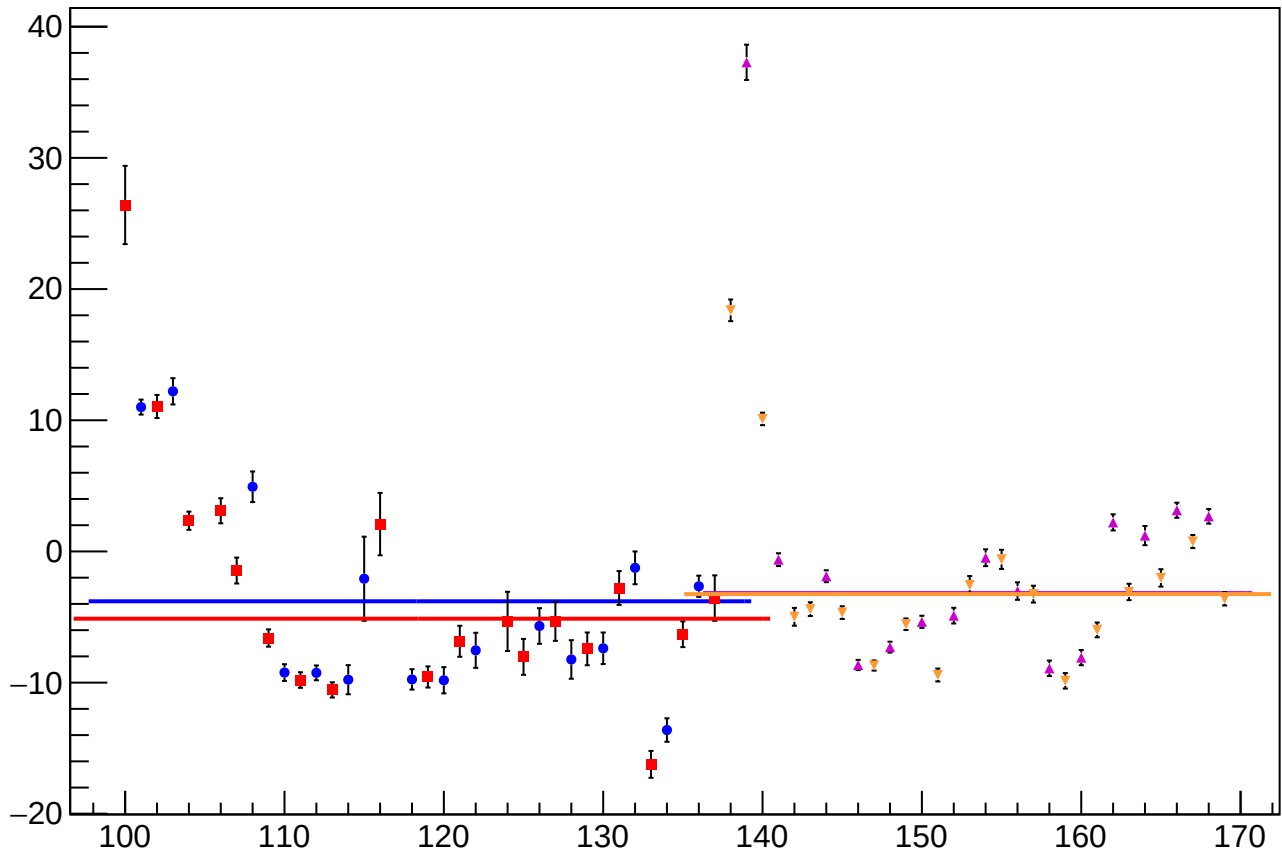
Right: -1.426 ± 0.127 χ^2/NDF : 2982.5/34

In: -9.470 ± 0.138 χ^2/NDF : 7657.5/30

Out: -8.347 ± 0.127 χ^2/NDF : 8574.5/35

All: -8.861 ± 0.093 χ^2/NDF : 16268.0/66

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.800 ± 0.226 χ^2/NDF : 1425.5/15

Left Out: -3.251 ± 0.133 χ^2/NDF : 2099.1/16

Right Out: -5.126 ± 0.219 χ^2/NDF : 980.6/18

Left In: -3.175 ± 0.140 χ^2/NDF : 1793.6/14

Left: -3.215 ± 0.096 χ^2/NDF : 3892.8/31

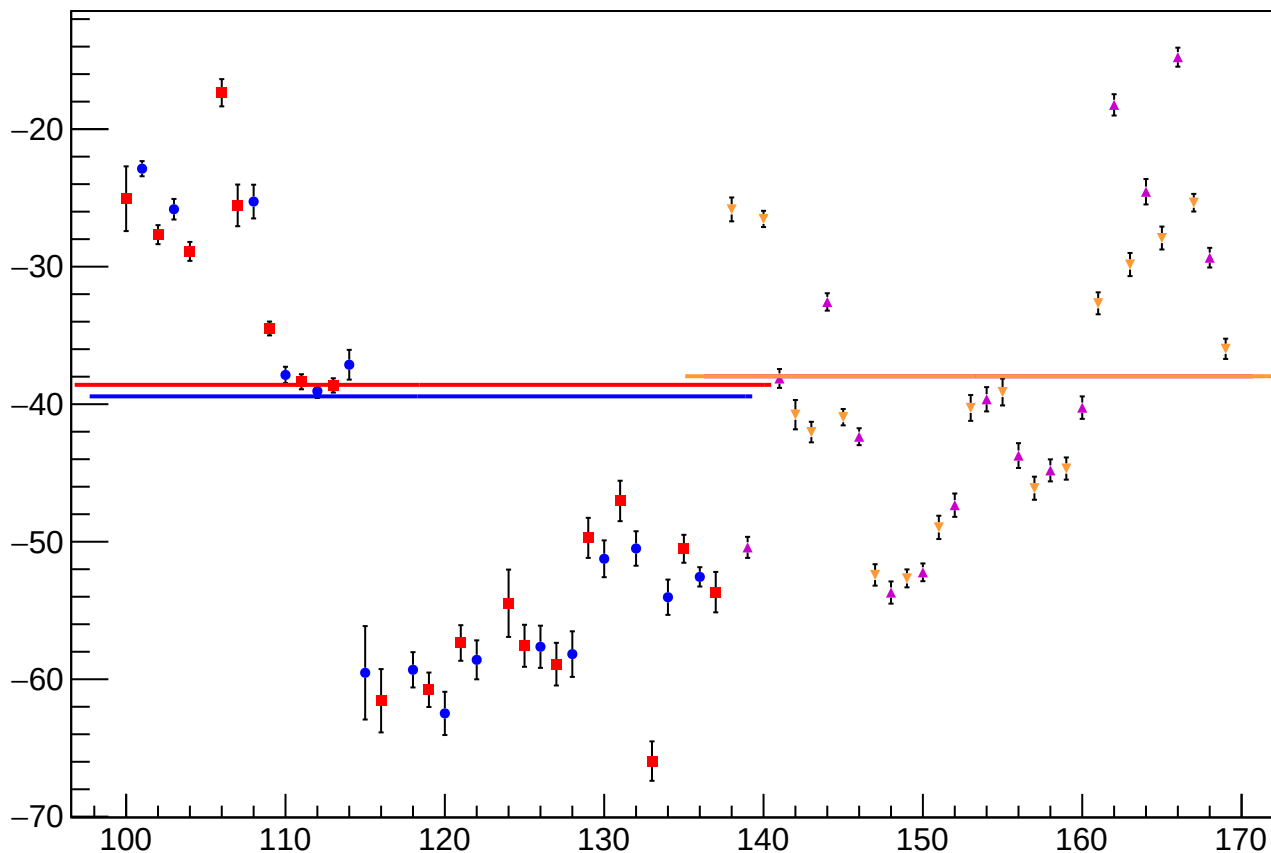
Right: -4.484 ± 0.157 χ^2/NDF : 2423.8/34

In: -3.349 ± 0.119 χ^2/NDF : 3224.7/30

Out: -3.756 ± 0.113 χ^2/NDF : 3133.3/35

All: -3.562 ± 0.082 χ^2/NDF : 6364.1/66

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -39.431 ± 0.225 χ^2/NDF : 2958.1/15

Left Out: -37.968 ± 0.186 χ^2/NDF : 2500.8/16

Right Out: -38.593 ± 0.213 χ^2/NDF : 2772.1/18

Left In: -37.971 ± 0.193 χ^2/NDF : 3635.5/14

Left: -37.970 ± 0.134 χ^2/NDF : 6136.3/31

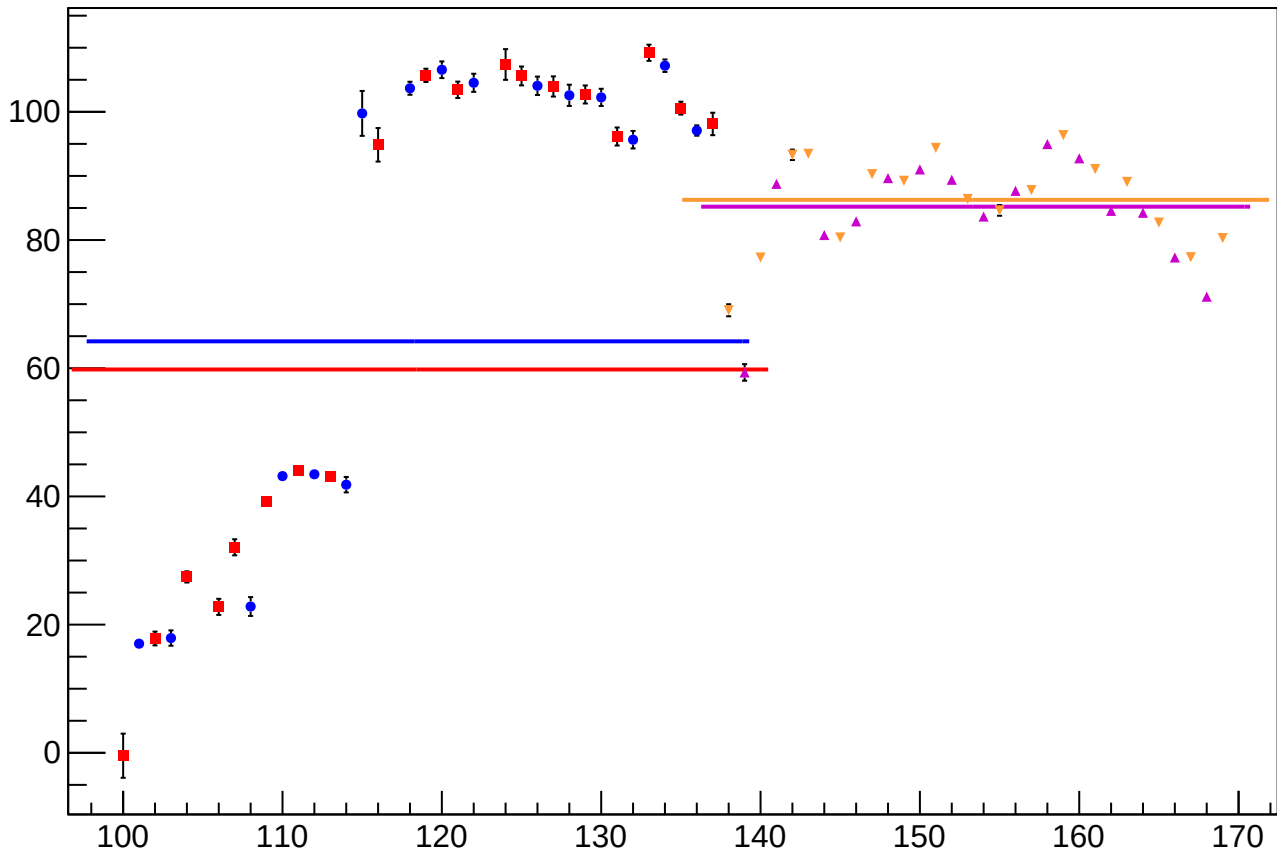
Right: -38.987 ± 0.155 χ^2/NDF : 5737.6/34

In: -38.590 ± 0.147 χ^2/NDF : 6617.8/30

Out: -38.239 ± 0.140 χ^2/NDF : 5277.8/35

All: -38.406 ± 0.101 χ^2/NDF : 11898.6/66

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 64.196 ± 0.258 $\chi^2/\text{NDF}: 18596.4/15$

Left Out: 86.270 ± 0.154 $\chi^2/\text{NDF}: 1915.6/16$

Right Out: 59.805 ± 0.249 $\chi^2/\text{NDF}: 17431.2/18$

Left In: 85.203 ± 0.163 $\chi^2/\text{NDF}: 1788.6/14$

Left: 85.766 ± 0.112 $\chi^2/\text{NDF}: 3726.9/31$

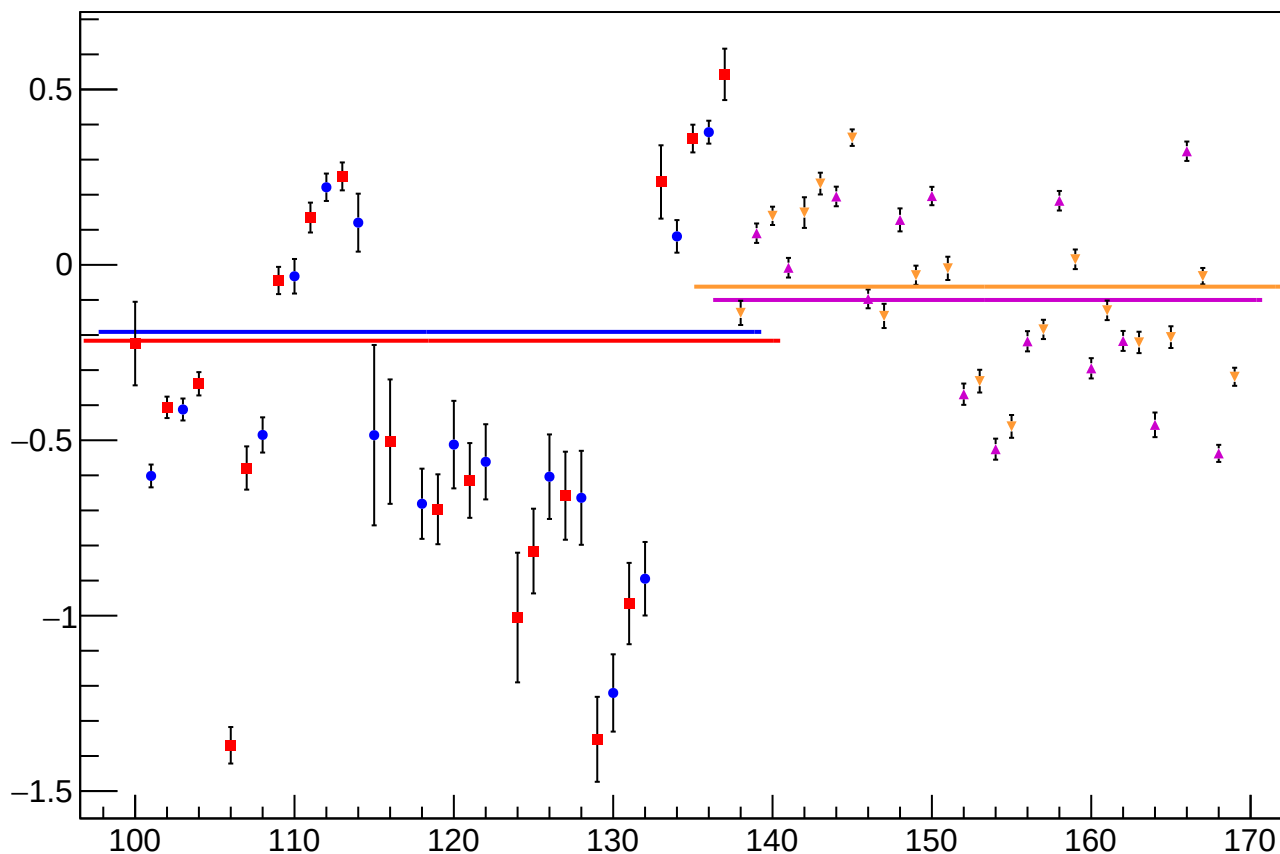
Right: 61.924 ± 0.179 $\chi^2/\text{NDF}: 36178.0/34$

In: 79.207 ± 0.138 $\chi^2/\text{NDF}: 25140.8/30$

Out: 78.943 ± 0.131 $\chi^2/\text{NDF}: 27532.8/35$

All: 79.068 ± 0.095 $\chi^2/\text{NDF}: 52675.5/66$

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.191 ± 0.013 χ^2/NDF : 918.3/15

Left Out: -0.062 ± 0.007 χ^2/NDF : 914.7/16

Right Out: -0.216 ± 0.013 χ^2/NDF : 1368.1/18

Left In: -0.100 ± 0.007 χ^2/NDF : 1469.1/14

Left: -0.080 ± 0.005 χ^2/NDF : 2397.7/31

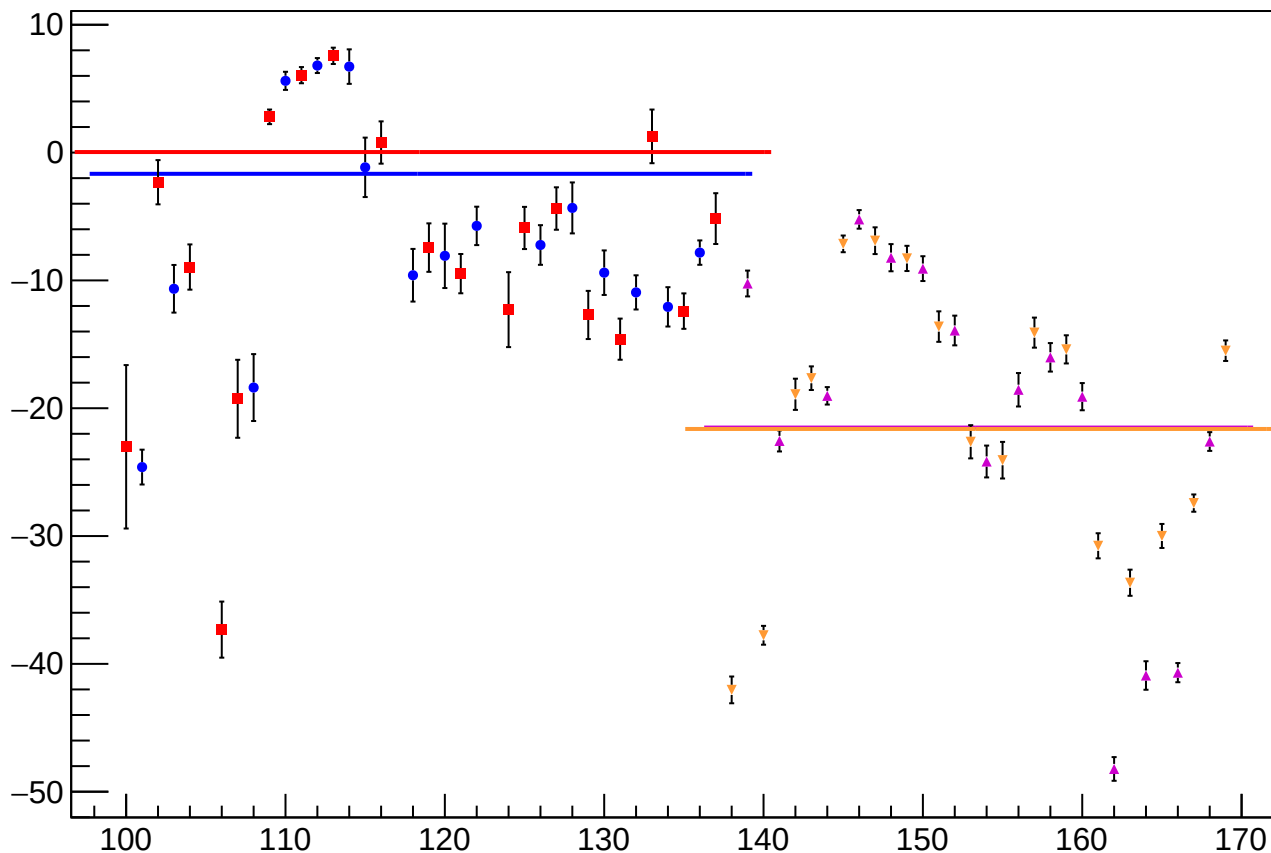
Right: -0.204 ± 0.009 χ^2/NDF : 2288.3/34

In: -0.121 ± 0.006 χ^2/NDF : 2422.8/30

Out: -0.098 ± 0.006 χ^2/NDF : 2392.1/35

All: -0.109 ± 0.004 χ^2/NDF : 4821.7/66

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.661 ± 0.308 $\chi^2/\text{NDF}: 900.3/15$

Left Out: -21.622 ± 0.229 $\chi^2/\text{NDF}: 2313.9/16$

Right Out: 0.042 ± 0.282 $\chi^2/\text{NDF}: 931.1/18$

Left In: -21.513 ± 0.238 $\chi^2/\text{NDF}: 2830.3/14$

Left: -21.570 ± 0.165 $\chi^2/\text{NDF}: 5144.3/31$

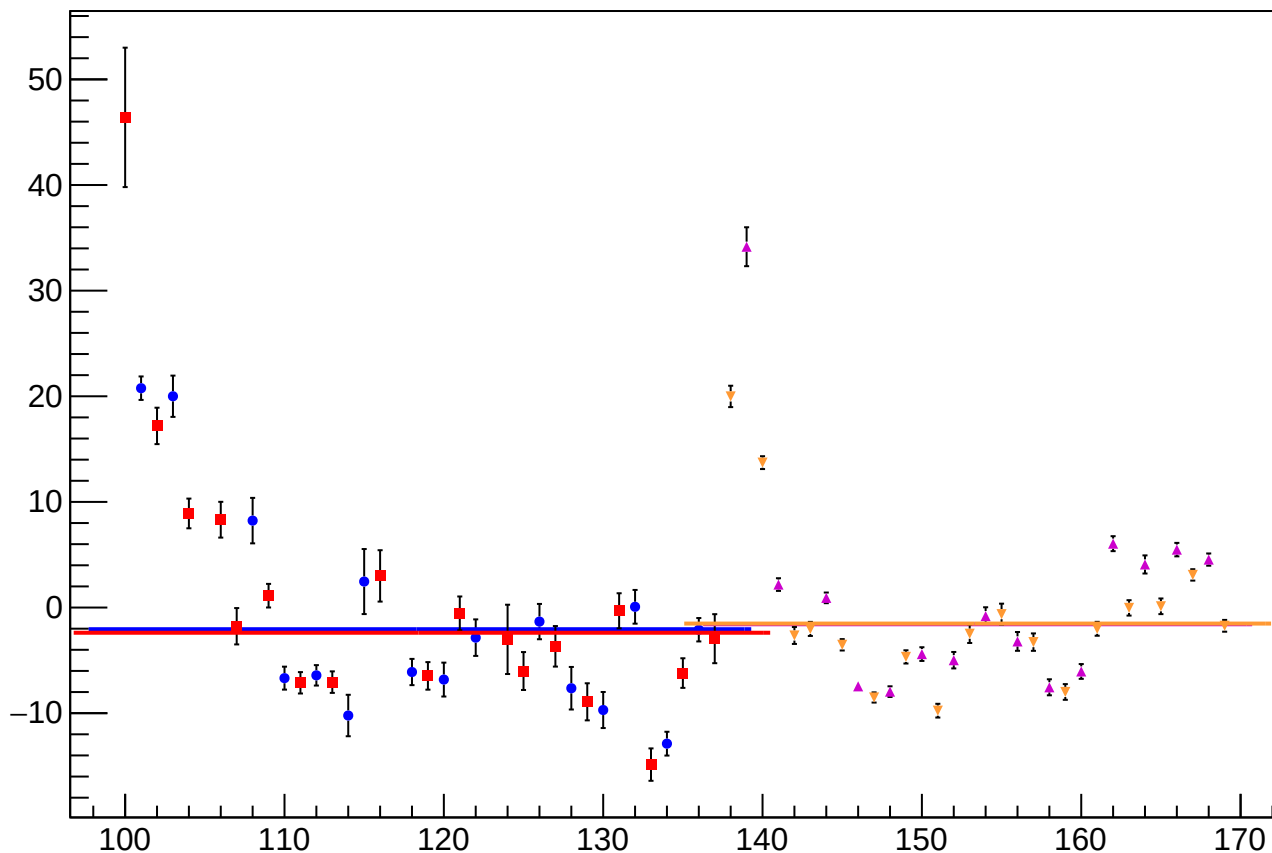
Right: -0.734 ± 0.208 $\chi^2/\text{NDF}: 1848.1/34$

In: -14.103 ± 0.188 $\chi^2/\text{NDF}: 6333.1/30$

Out: -13.010 ± 0.178 $\chi^2/\text{NDF}: 6803.2/35$

All: -13.525 ± 0.129 $\chi^2/\text{NDF}: 13154.1/66$

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.050 ± 0.356 $\chi^2/\text{NDF}: 771.9/15$

Left Out: -1.517 ± 0.161 $\chi^2/\text{NDF}: 1657.2/16$

Right Out: -2.386 ± 0.355 $\chi^2/\text{NDF}: 450.9/18$

Left In: -1.583 ± 0.168 $\chi^2/\text{NDF}: 1324.5/14$

Left: -1.549 ± 0.116 $\chi^2/\text{NDF}: 2981.7/31$

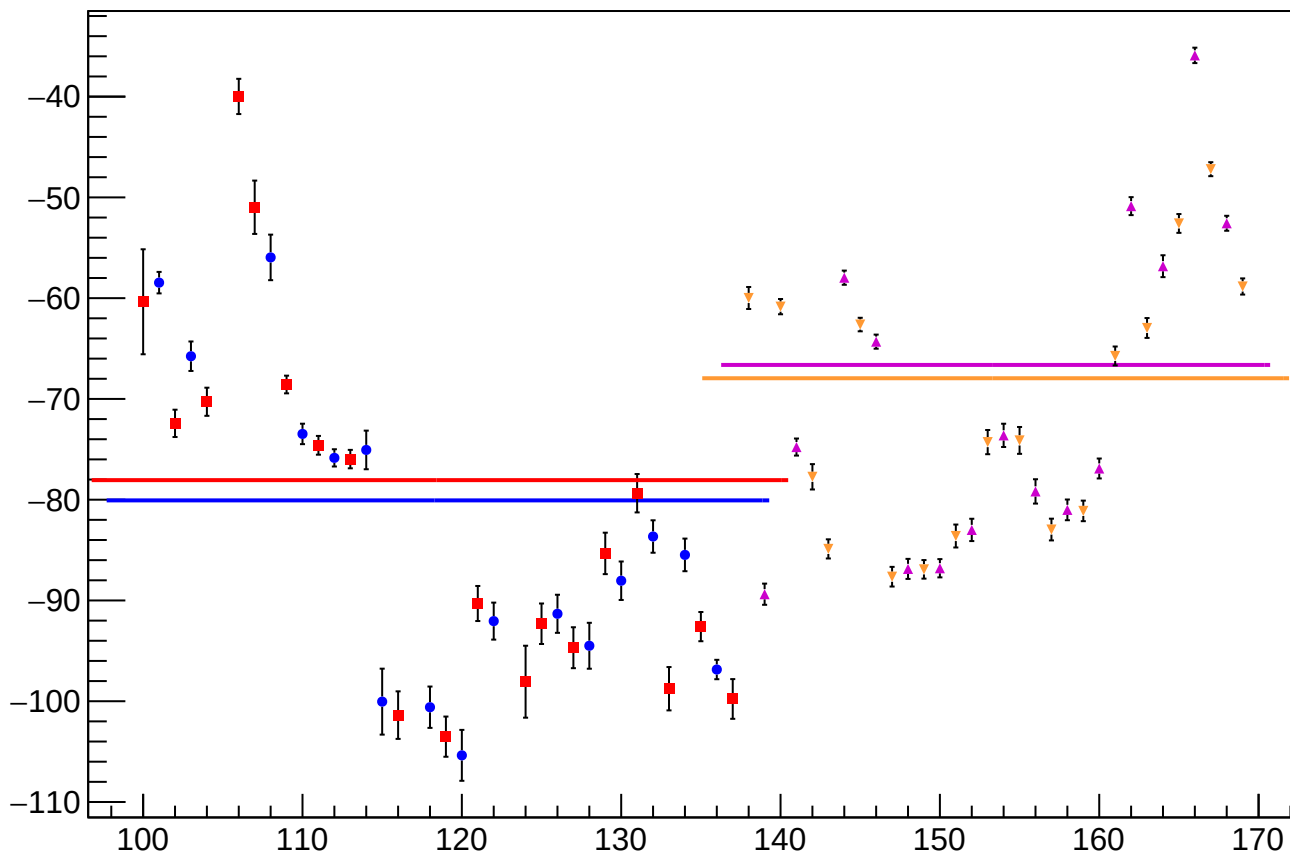
Right: -2.218 ± 0.252 $\chi^2/\text{NDF}: 1223.3/34$

In: -1.667 ± 0.152 $\chi^2/\text{NDF}: 2097.8/30$

Out: -1.666 ± 0.147 $\chi^2/\text{NDF}: 2113.0/35$

All: -1.667 ± 0.106 $\chi^2/\text{NDF}: 4210.8/66$

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -80.069 ± 0.364 χ^2/NDF : 1387.2/15

Left Out: -67.947 ± 0.226 χ^2/NDF : 3338.3/16

Right Out: -78.059 ± 0.354 χ^2/NDF : 1561.2/18

Left In: -66.626 ± 0.233 χ^2/NDF : 4663.5/14

Left: -67.306 ± 0.162 χ^2/NDF : 8018.4/31

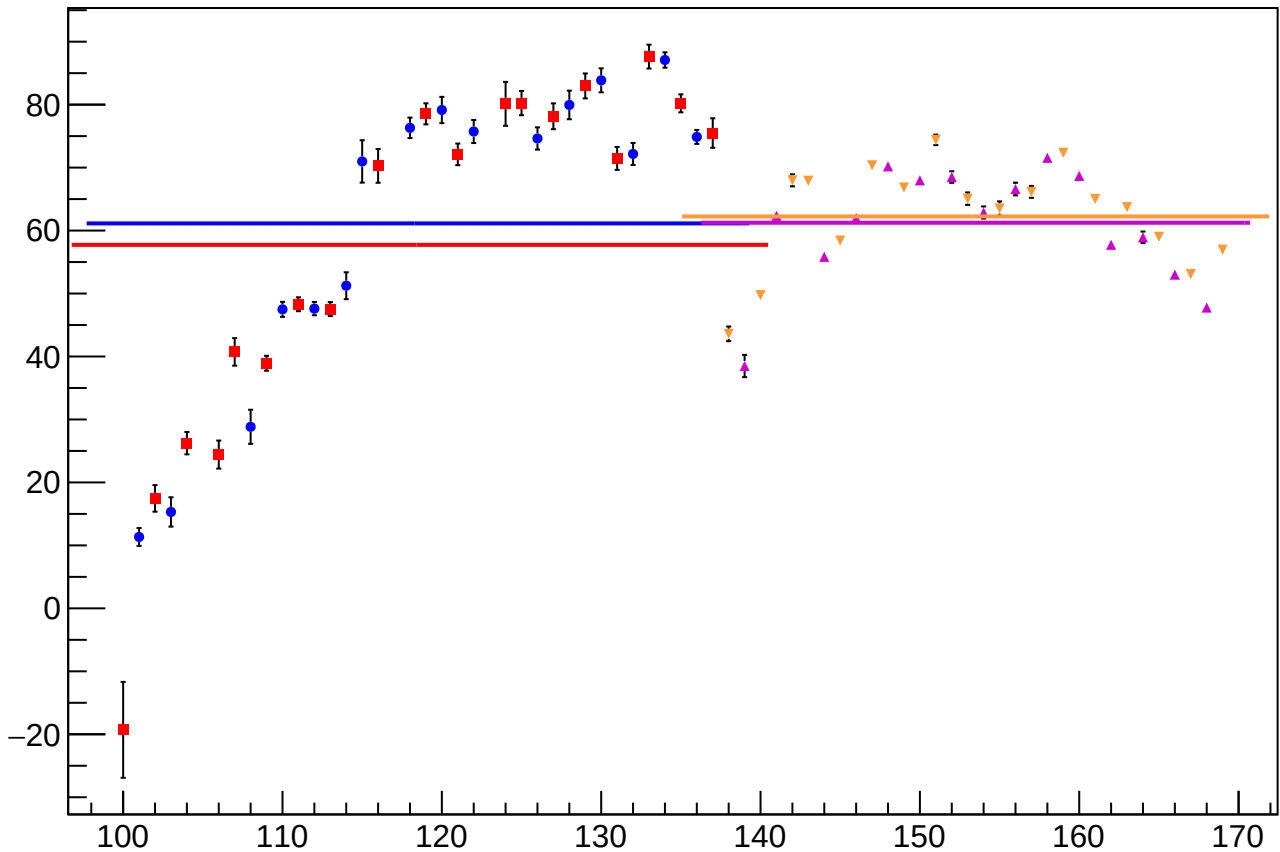
Right: -79.033 ± 0.254 χ^2/NDF : 2964.1/34

In: -70.525 ± 0.196 χ^2/NDF : 7016.9/30

Out: -70.882 ± 0.190 χ^2/NDF : 5480.2/35

All: -70.709 ± 0.137 χ^2/NDF : 12498.8/66

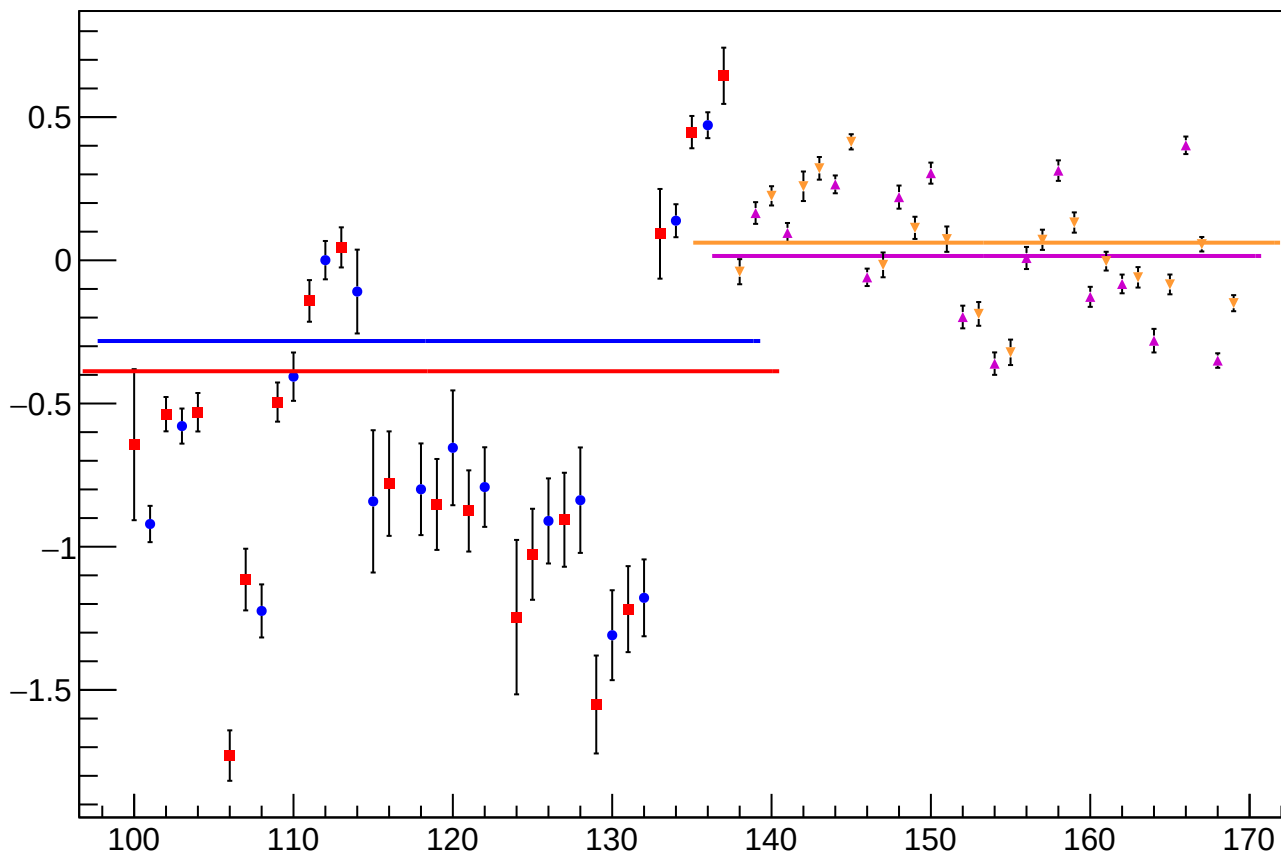
reg_asym_sam_3748_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 61.139 $\pm$ 0.401 χ^2 /NDF: 3229.3/15
 Left Out: 62.242 $\pm$ 0.186 χ^2 /NDF:1617.2/16
 Right Out: 57.728 $\pm$ 0.400 χ^2 /NDF: 2775.6/18
 Left In: 61.243 $\pm$ 0.195 χ^2 /NDF:1431.1/14

Left: 61.765 $\pm$ 0.135 χ^2 /NDF: 3062.1/31
 Right: 59.431 $\pm$ 0.283 χ^2 /NDF: 6041.2/34
 In: 61.223 $\pm$ 0.175 χ^2 /NDF:4660.4/30
 Out: 61.436 $\pm$ 0.169 χ^2 /NDF:4497.4/35
 All: 61.333 $\pm$ 0.122 χ^2 /NDF: 9158.7/66

reg_asym_sam_3748_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.282 ± 0.022 χ^2/NDF : 728.2/15

Left Out: 0.062 ± 0.009 χ^2/NDF : 470.7/16

Right Out: -0.387 ± 0.022 χ^2/NDF : 818.7/18

Left In: 0.015 ± 0.009 χ^2/NDF : 813.1/14

Left: 0.039 ± 0.006 χ^2/NDF : 1298.0/31

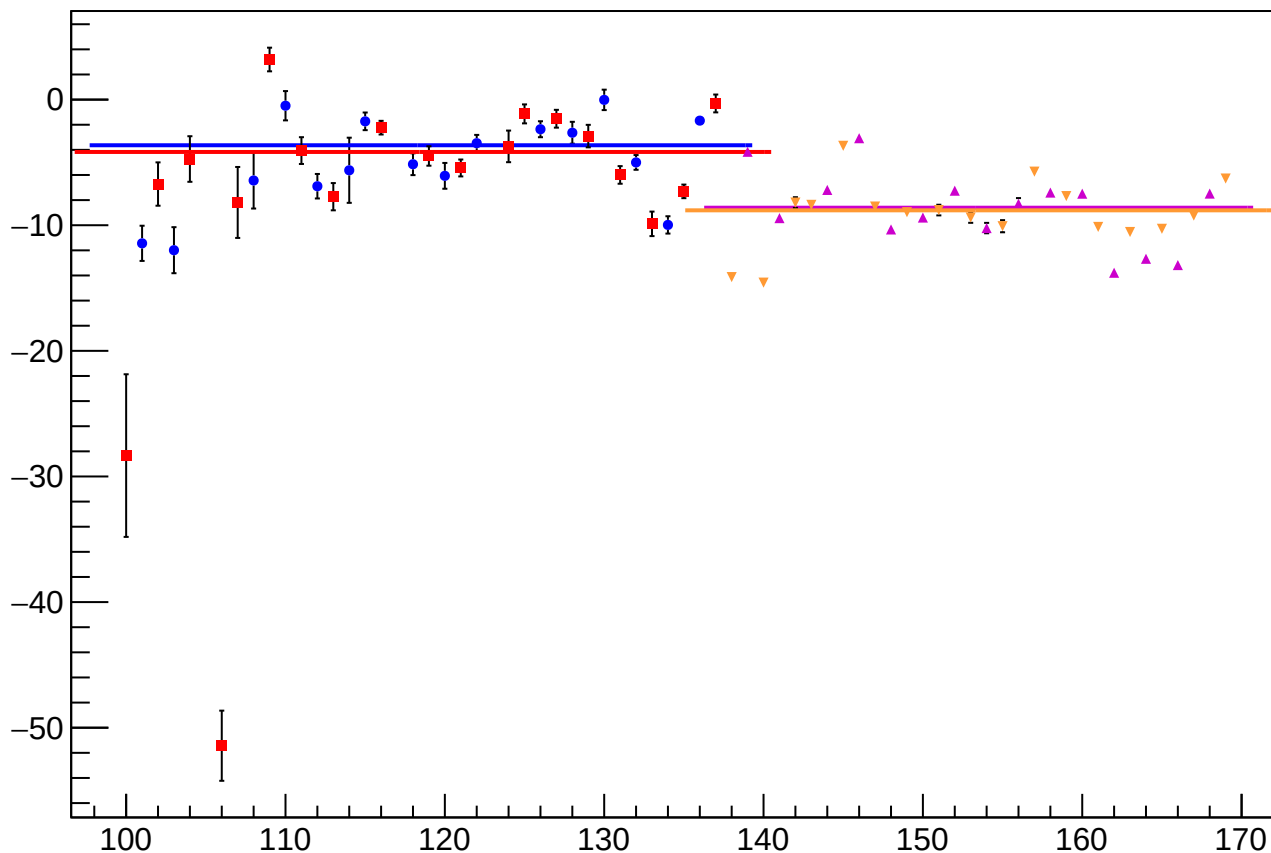
Right: -0.334 ± 0.015 χ^2/NDF : 1558.7/34

In: -0.028 ± 0.008 χ^2/NDF : 1702.5/30

Out: 0.002 ± 0.008 χ^2/NDF : 1653.7/35

All: -0.012 ± 0.006 χ^2/NDF : 3362.9/66

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.634 ± 0.189 χ^2/NDF : 234.8/15

Left Out: -8.814 ± 0.076 χ^2/NDF : 1527.8/16

Right Out: -4.167 ± 0.199 χ^2/NDF : 529.7/18

Left In: -8.605 ± 0.078 χ^2/NDF : 1711.3/14

Left: -8.713 ± 0.054 χ^2/NDF : 3242.8/31

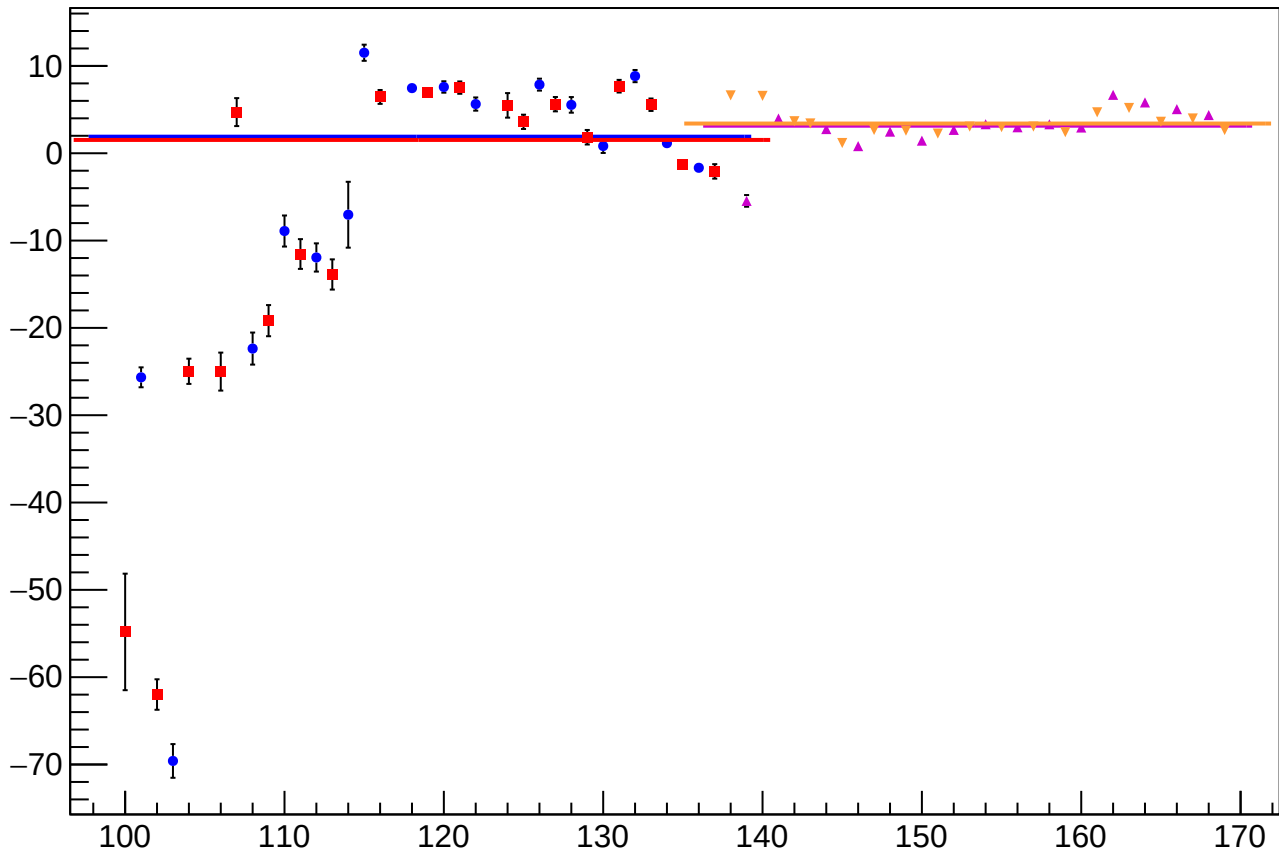
Right: -3.886 ± 0.137 χ^2/NDF : 768.2/34

In: -7.882 ± 0.072 χ^2/NDF : 2537.1/30

Out: -8.229 ± 0.071 χ^2/NDF : 2532.1/35

All: -8.059 ± 0.050 χ^2/NDF : 5081.1/66

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.898 ± 0.189 χ^2/NDF : 2838.2/15

Left Out: 3.403 ± 0.054 χ^2/NDF : 667.8/16

Right Out: 1.525 ± 0.208 χ^2/NDF : 2559.8/18

Left In: 3.156 ± 0.055 χ^2/NDF : 1043.7/14

Left: 3.283 ± 0.038 χ^2/NDF : 1721.8/31

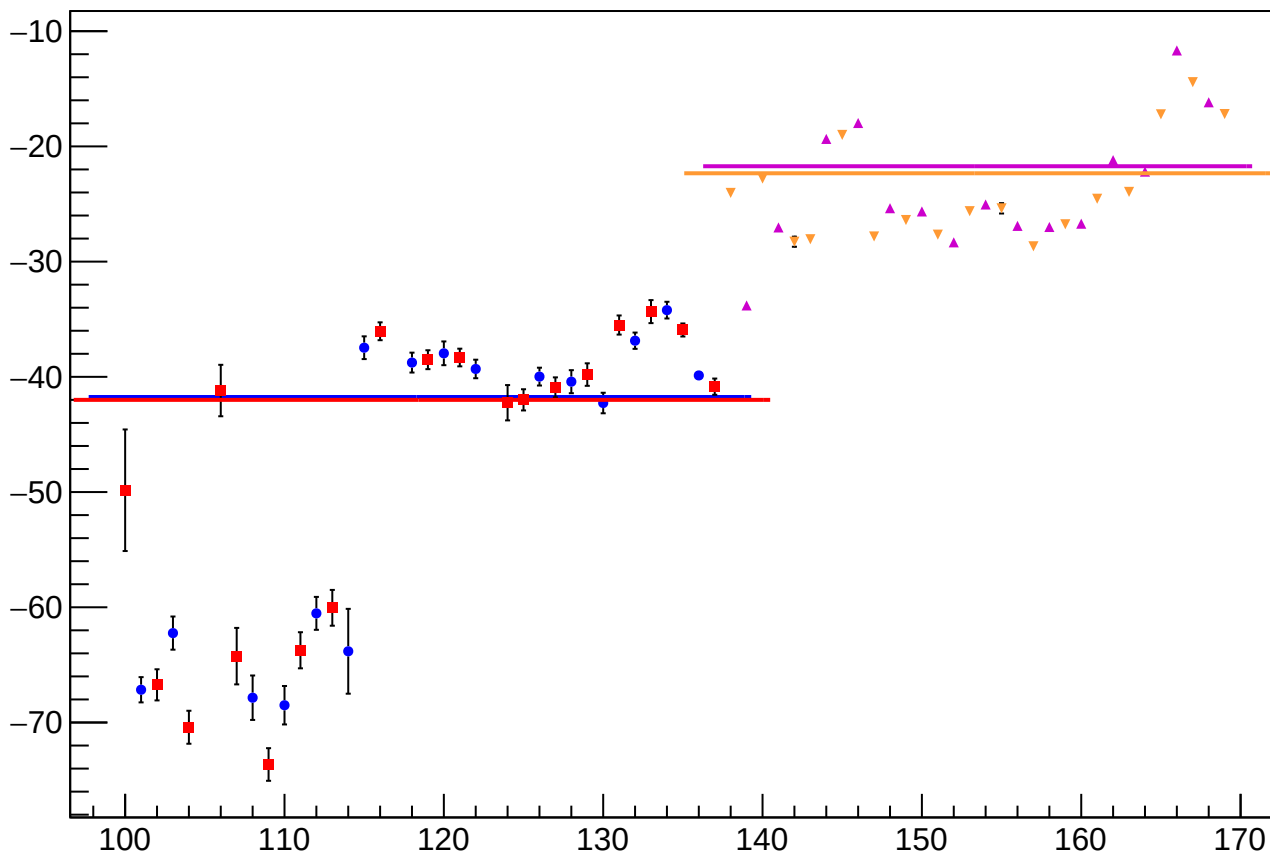
Right: 1.730 ± 0.140 χ^2/NDF : 5399.7/34

In: 3.058 ± 0.053 χ^2/NDF : 3922.7/30

Out: 3.286 ± 0.052 χ^2/NDF : 3303.8/35

All: 3.174 ± 0.037 χ^2/NDF : 7236.0/66

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -41.751 ± 0.208 $\chi^2/\text{NDF}: 1633.9/15$

Left Out: -22.333 ± 0.075 $\chi^2/\text{NDF}: 4098.7/16$

Right Out: -41.999 ± 0.228 $\chi^2/\text{NDF}: 1985.2/18$

Left In: -21.722 ± 0.076 $\chi^2/\text{NDF}: 5338.1/14$

Left: -22.034 ± 0.053 $\chi^2/\text{NDF}: 9469.5/31$

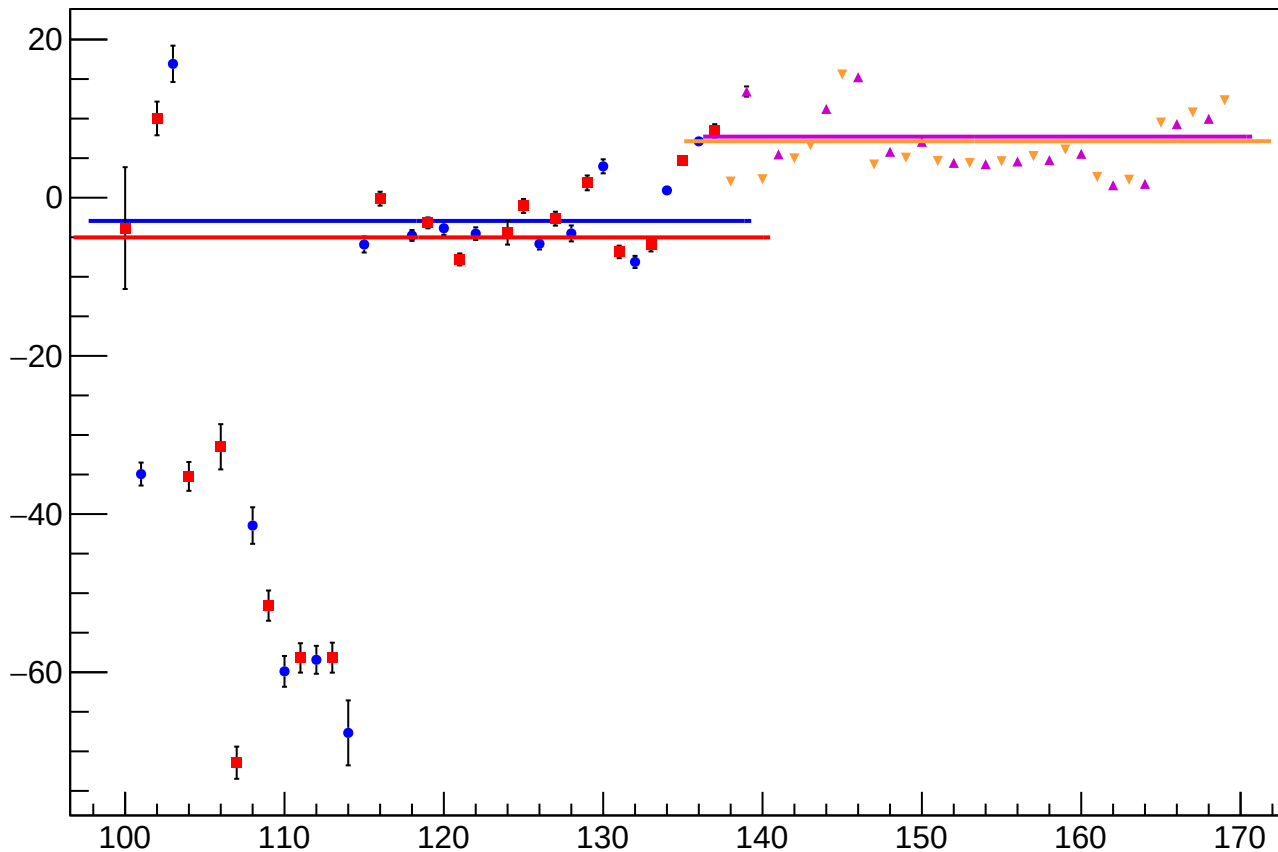
Right: -41.863 ± 0.154 $\chi^2/\text{NDF}: 3619.8/34$

In: -24.112 ± 0.072 $\chi^2/\text{NDF}: 15167.3/30$

Out: -24.237 ± 0.071 $\chi^2/\text{NDF}: 12787.8/35$

All: -24.175 ± 0.050 $\chi^2/\text{NDF}: 27956.6/66$

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -2.936 ± 0.210 χ^2/NDF : 3725.6/15

Left Out: 7.144 ± 0.062 χ^2/NDF : 4775.0/16

Right Out: -5.018 ± 0.232 χ^2/NDF : 4377.3/18

Left In: 7.720 ± 0.064 χ^2/NDF : 4293.5/14

Left: 7.421 ± 0.044 χ^2/NDF : 9110.6/31

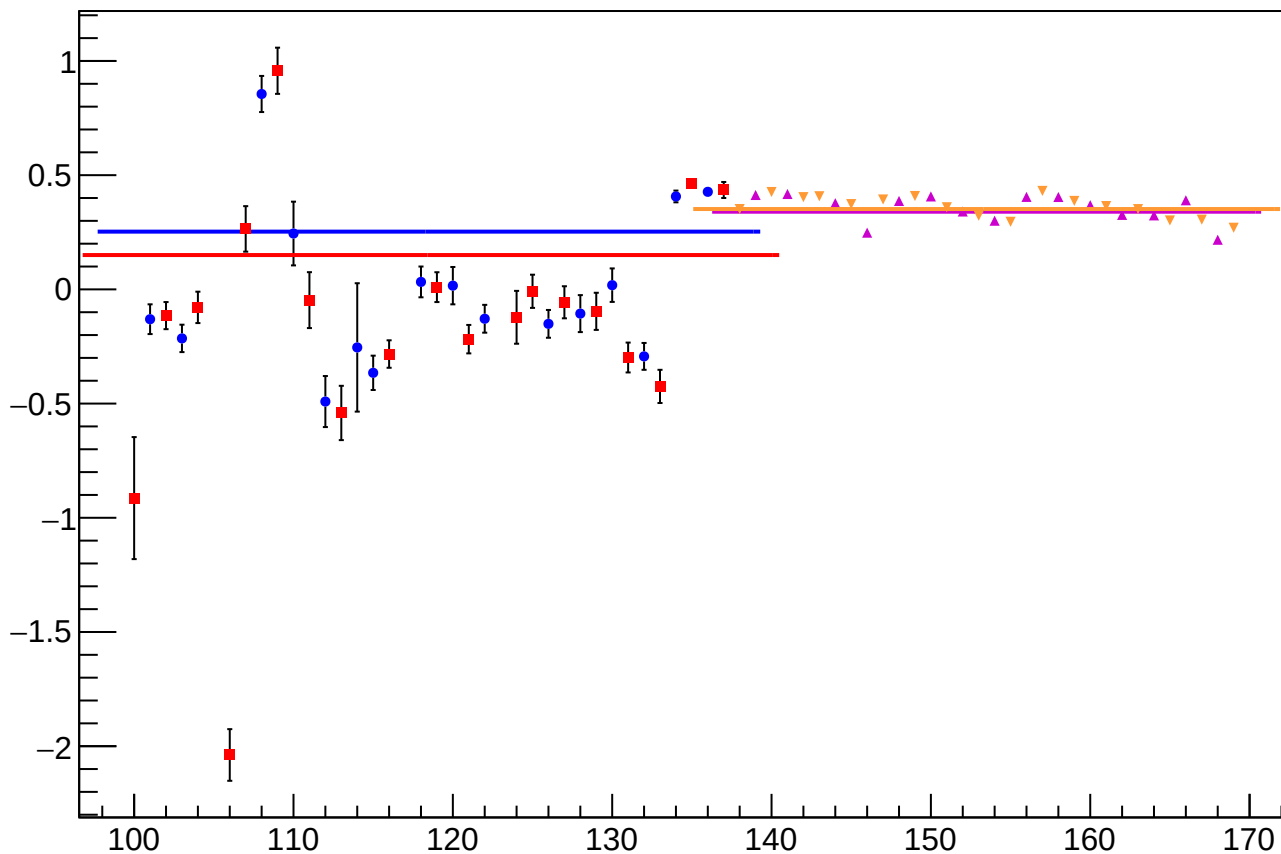
Right: -3.873 ± 0.155 χ^2/NDF : 8147.2/34

In: 6.814 ± 0.061 χ^2/NDF : 10382.8/30

Out: 6.344 ± 0.059 χ^2/NDF : 11724.3/35

All: 6.573 ± 0.043 χ^2/NDF : 22137.4/66

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Left: 0.346 ± 0.002 $\chi^2/\text{NDF}: 884.2/31$

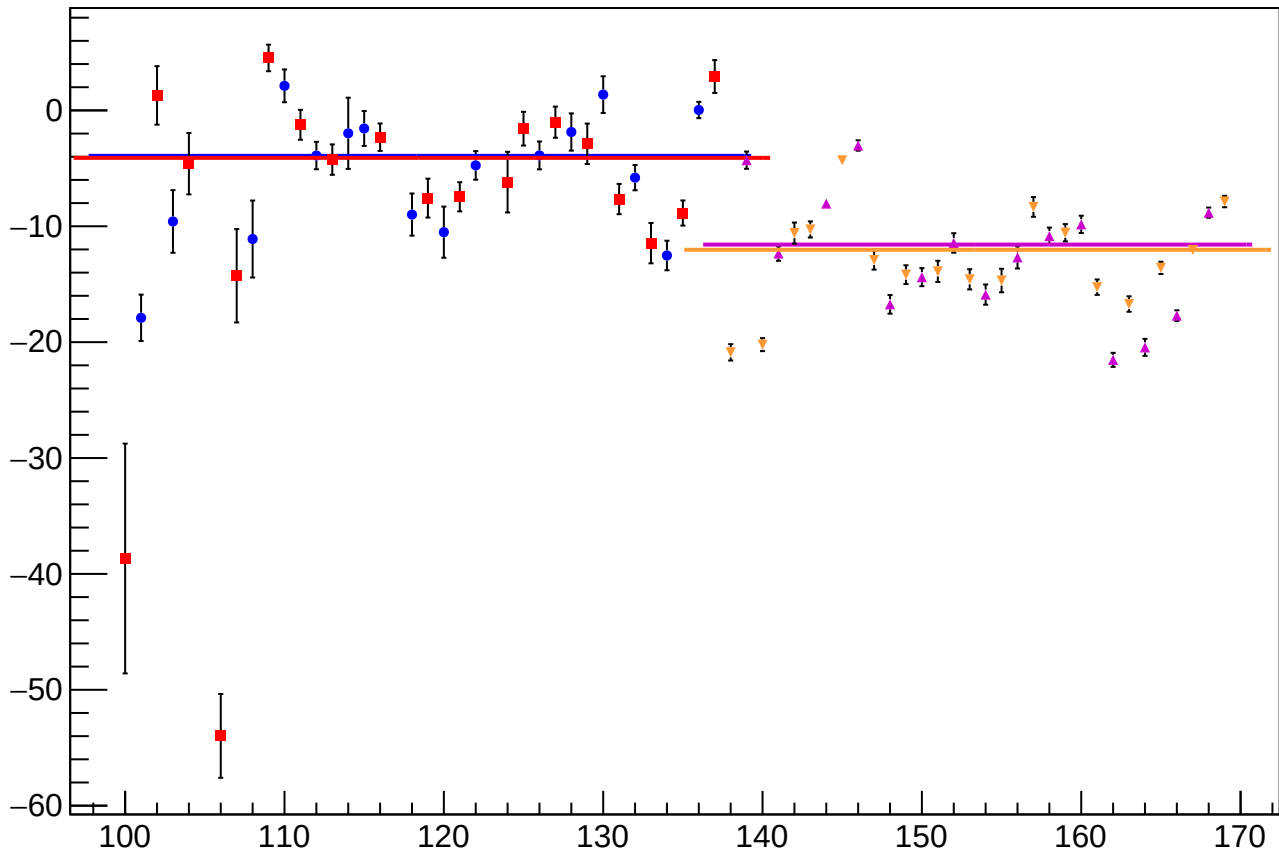
Right: 0.209 ± 0.009 $\chi^2/\text{NDF}: 1682.8/34$

In: 0.335 ± 0.003 $\chi^2/\text{NDF}: 1247.0/30$

Out: 0.343 ± 0.003 $\chi^2/\text{NDF}: 1549.9/35$

All: 0.339 ± 0.002 $\chi^2/\text{NDF}: 2801.5/66$

reg_asym_sam_3726_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -3.924 ± 0.346 χ^2/NDF : 188.8/15

Left Out: -12.029 ± 0.153 χ^2/NDF : 966.3/16

Right Out: -4.096 ± 0.357 χ^2/NDF : 366.9/18

Left In: -11.579 ± 0.158 χ^2/NDF : 1248.3/14

Left: -11.812 ± 0.110 χ^2/NDF : 2218.8/31

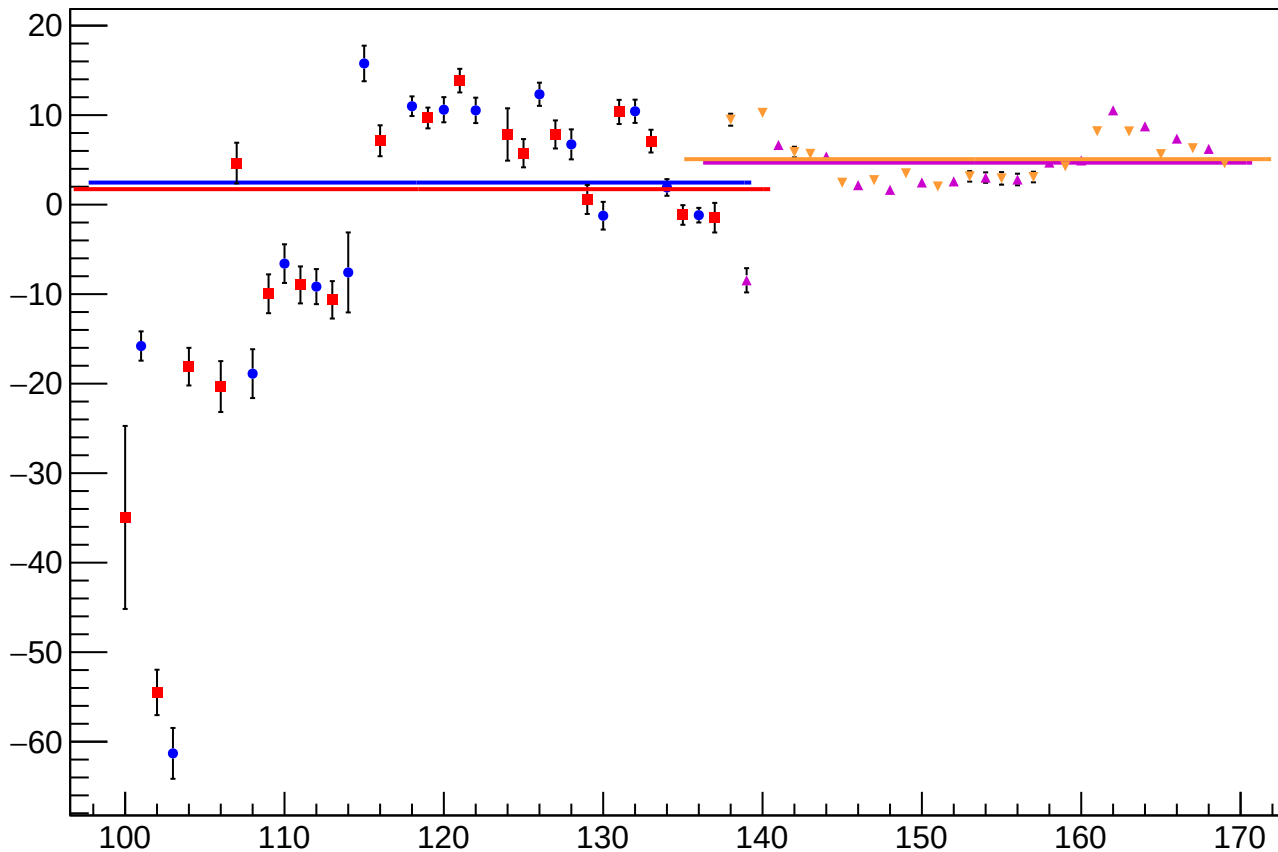
Right: -4.007 ± 0.248 χ^2/NDF : 555.8/34

In: -10.254 ± 0.144 χ^2/NDF : 1841.8/30

Out: -10.796 ± 0.141 χ^2/NDF : 1750.6/35

All: -10.531 ± 0.101 χ^2/NDF : 3599.7/66

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.465 $\pm$ 0.357 χ^2 /NDF: 1046.7/15

Left Out: 5.079 $\pm$ 0.109 χ^2 /NDF:469.0/16

Right Out: 1.728 $\pm$ 0.386 χ^2 /NDF: 983.1/18

Left In: 4.689 $\pm$ 0.112 χ^2 /NDF:601.5/14

Left: 4.888 $\pm$ 0.078 χ^2 /NDF: 1076.7/31

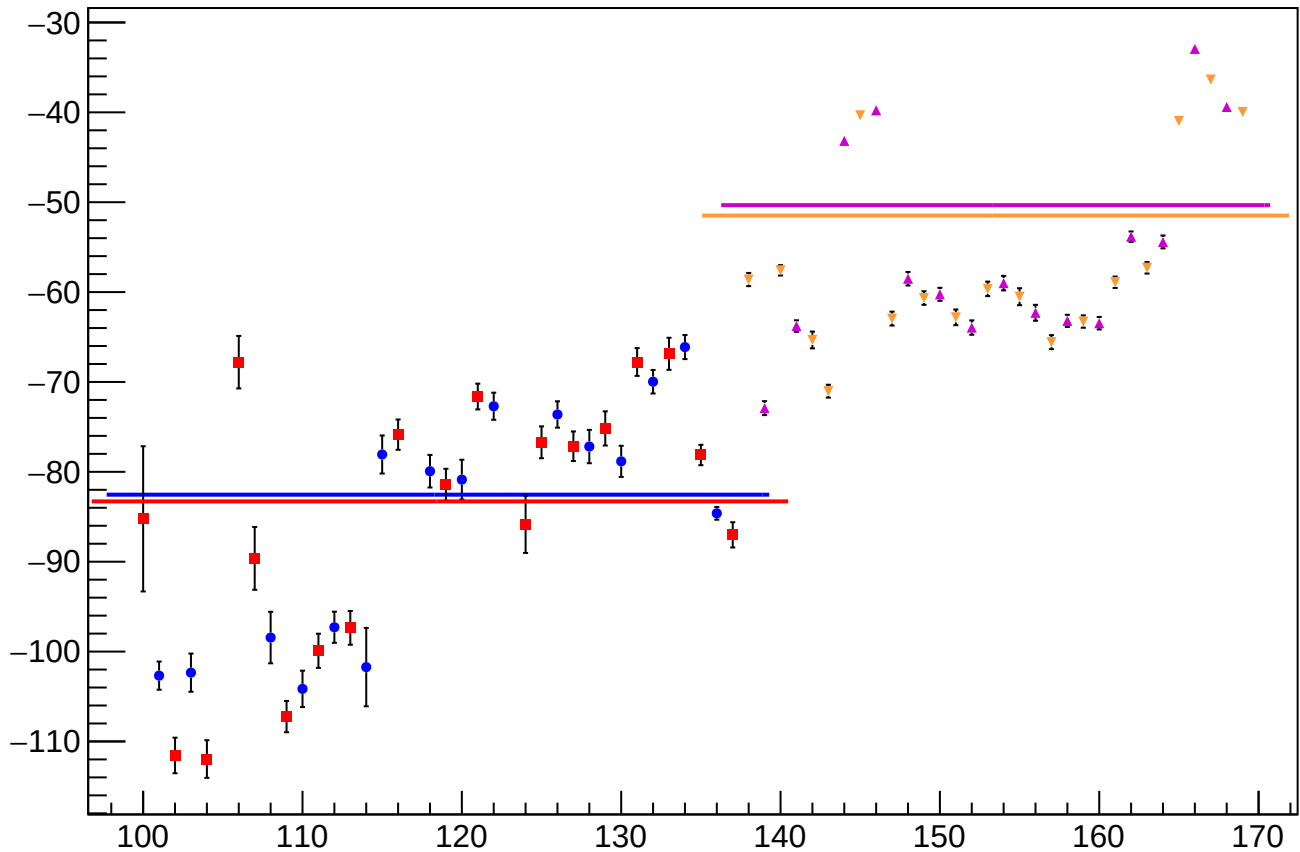
Right: 2.126 $\pm$ 0.262 χ^2 /NDF: 2031.8/34

In: 4.489 $\pm$ 0.107 χ^2 /NDF:1683.6/30

Out: 4.829 $\pm$ 0.105 χ^2 /NDF:1521.8/35

All: 4.662 $\pm$ 0.075 χ^2 /NDF: 3210.6/66

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -82.542 ± 0.384 χ^2/NDF : 838.8/15

Left Out: -51.483 ± 0.152 χ^2/NDF : 5725.0/16

Right Out: -83.290 ± 0.414 χ^2/NDF : 1092.6/18

Left In: -50.327 ± 0.156 χ^2/NDF : 5806.1/14

Left: -50.919 ± 0.109 χ^2/NDF : 11559.4/31

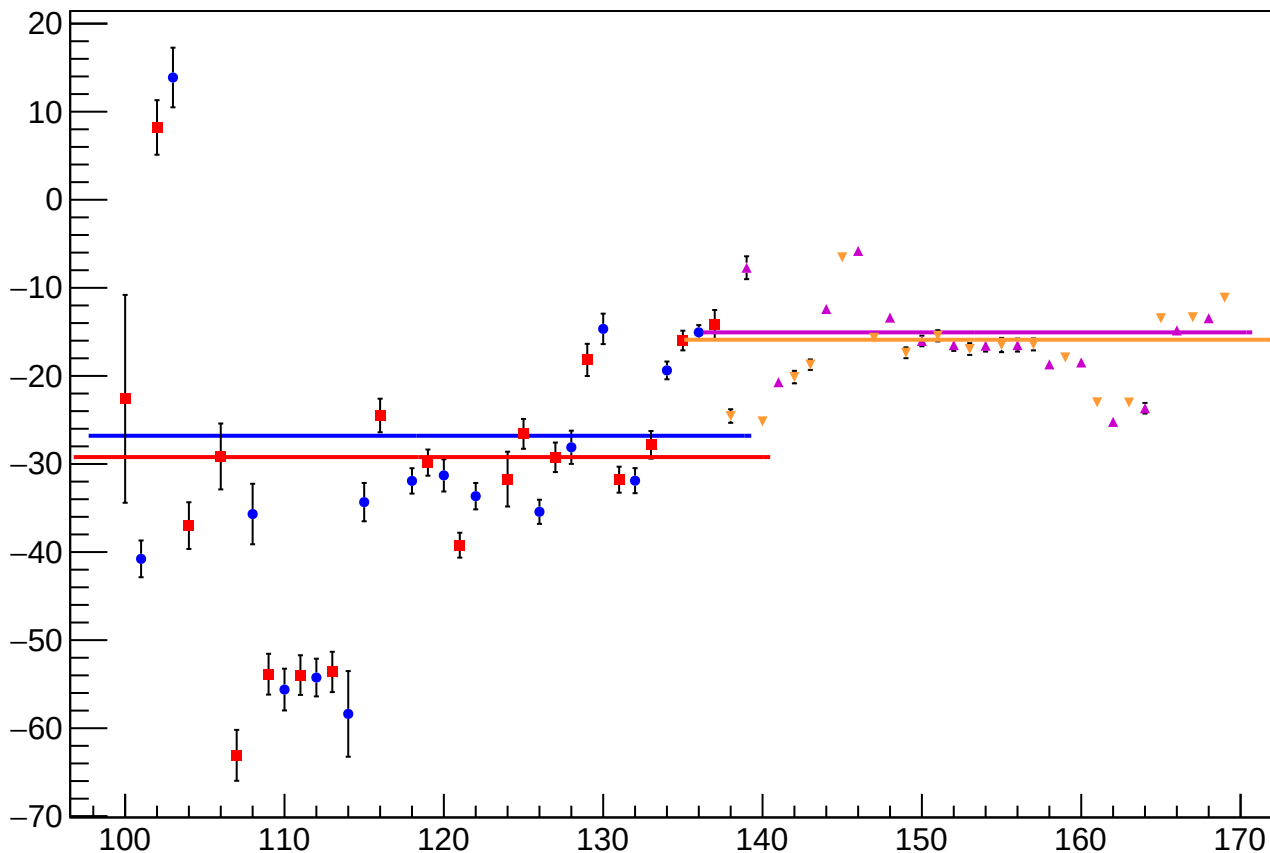
Right: -82.888 ± 0.282 χ^2/NDF : 1933.1/34

In: -54.860 ± 0.144 χ^2/NDF : 12682.8/30

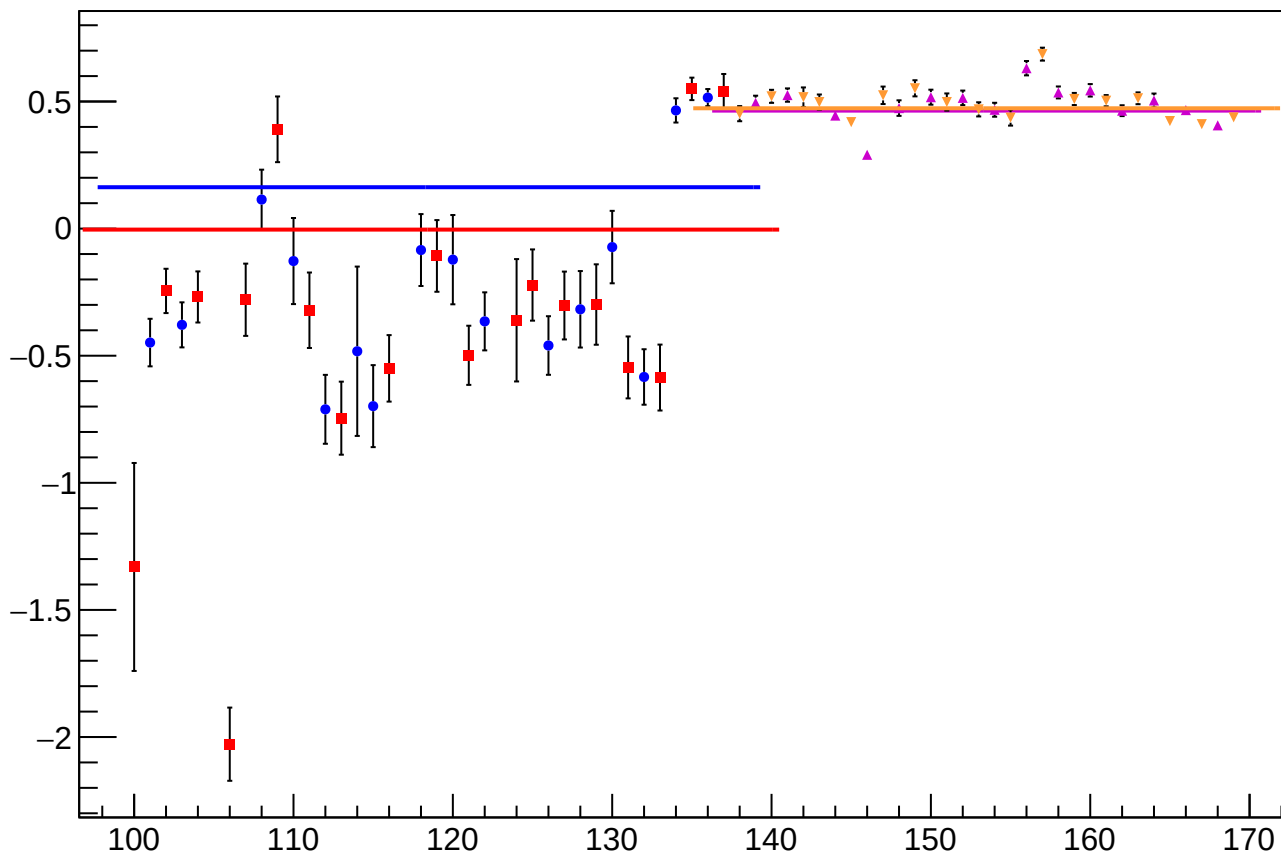
Out: -55.247 ± 0.143 χ^2/NDF : 12015.2/35

All: -55.056 ± 0.101 χ^2/NDF : 24701.6/66

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.163 $\pm$ 0.021 χ^2 /NDF: 422.6/15

Left Out: 0.473 $\pm$ 0.006 χ^2 /NDF:131.9/16

Right Out: -0.004 $\pm$ 0.024 χ^2 /NDF: 573.3/18

Left In: 0.464 $\pm$ 0.006 χ^2 /NDF:171.4/14

Left: 0.469 $\pm$ 0.004 χ^2 /NDF: 304.5/31

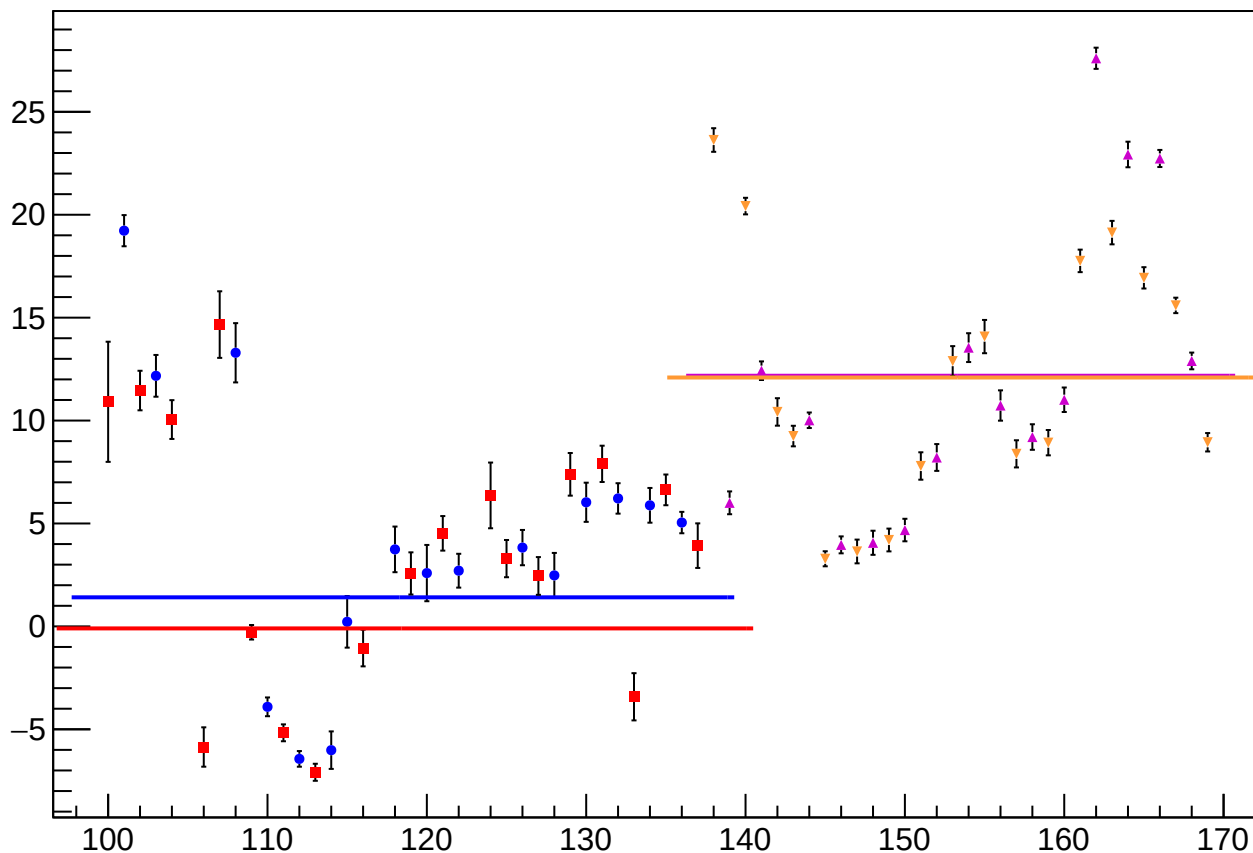
Right: 0.090 $\pm$ 0.016 χ^2 /NDF: 1022.3/34

In: 0.443 $\pm$ 0.006 χ^2 /NDF:778.1/30

Out: 0.449 $\pm$ 0.006 χ^2 /NDF:1067.7/35

All: 0.446 $\pm$ 0.004 χ^2 /NDF: 1846.4/66

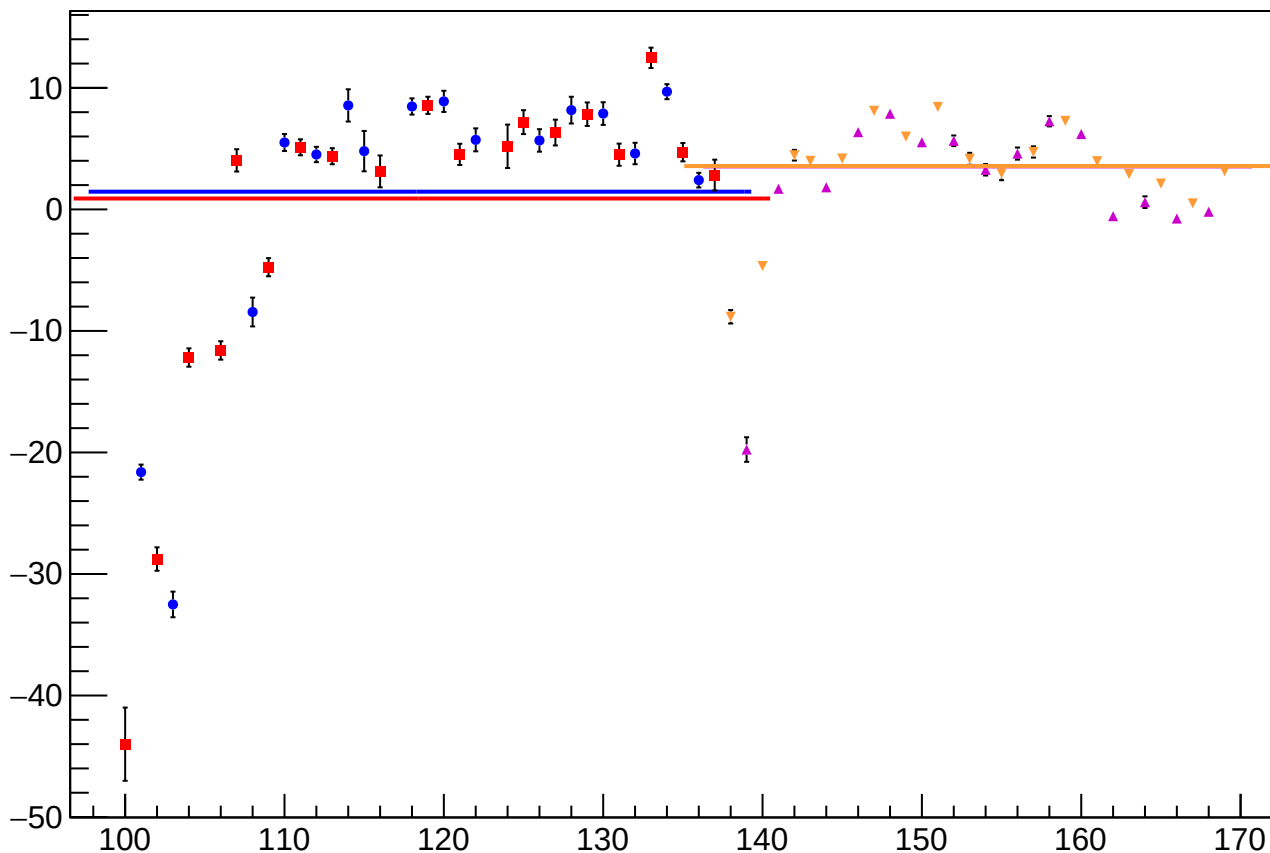
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 1.412 ± 0.183 $\chi^2/\text{NDF}: 1522.1/15$
 Left Out: 12.092 ± 0.127 $\chi^2/\text{NDF}: 2460.3/16$
 Right Out: -0.098 ± 0.167 $\chi^2/\text{NDF}: 1147.2/18$
 Left In: 12.178 ± 0.132 $\chi^2/\text{NDF}: 2853.9/14$

Left: 12.133 ± 0.092 $\chi^2/\text{NDF}: 5314.4/31$
 Right: 0.589 ± 0.124 $\chi^2/\text{NDF}: 2706.4/34$
 In: 8.489 ± 0.107 $\chi^2/\text{NDF}: 6648.9/30$
 Out: 7.641 ± 0.101 $\chi^2/\text{NDF}: 6974.5/35$
 All: 8.041 ± 0.074 $\chi^2/\text{NDF}: 13656.5/66$

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.459 ± 0.203 χ^2/NDF : 3080.3/15

Left Out: 3.566 ± 0.089 χ^2/NDF : 1855.5/16

Right Out: 0.896 ± 0.202 χ^2/NDF : 2377.1/18

Left In: 3.538 ± 0.093 χ^2/NDF : 1592.2/14

Left: 3.552 ± 0.065 χ^2/NDF : 3447.7/31

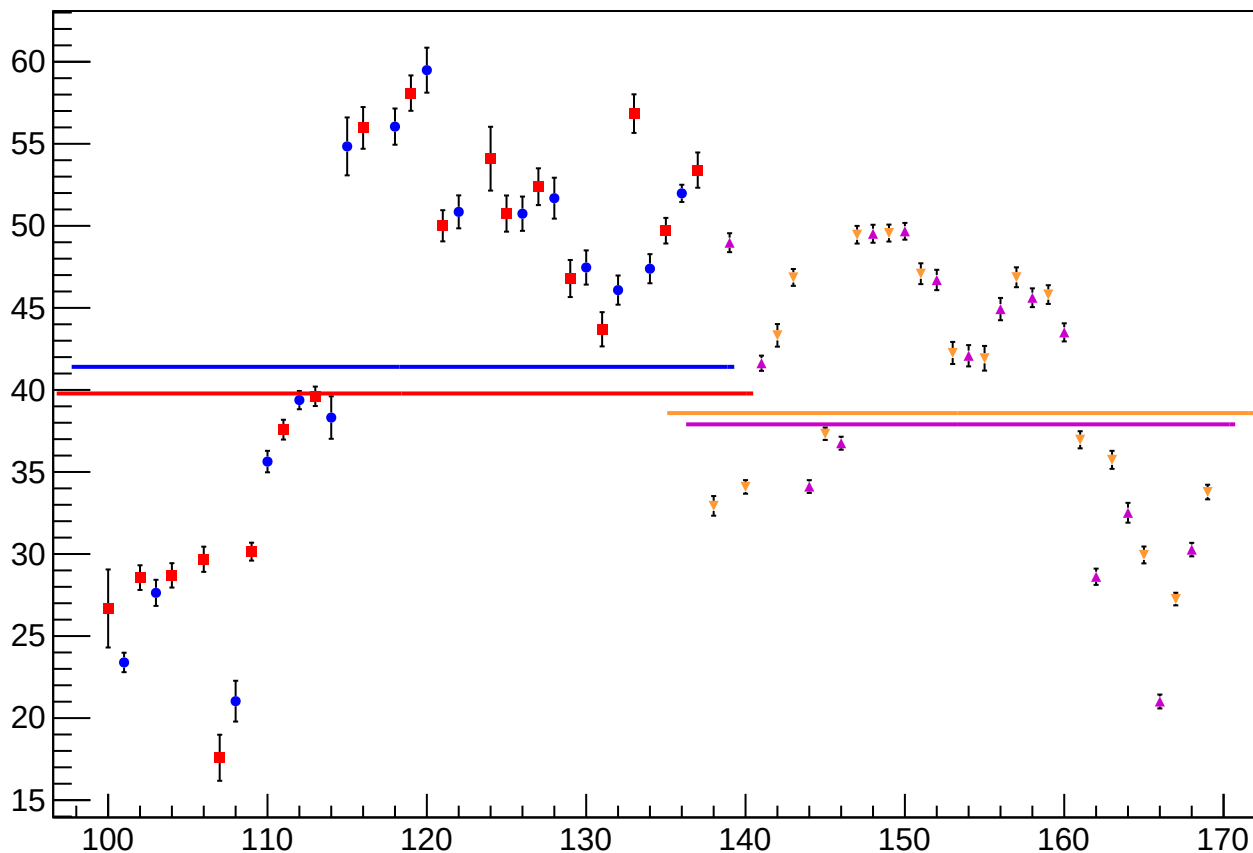
Right: 1.176 ± 0.143 χ^2/NDF : 5461.2/34

In: 3.178 ± 0.085 χ^2/NDF : 4758.8/30

Out: 3.128 ± 0.082 χ^2/NDF : 4378.5/35

All: 3.152 ± 0.059 χ^2/NDF : 9137.5/66

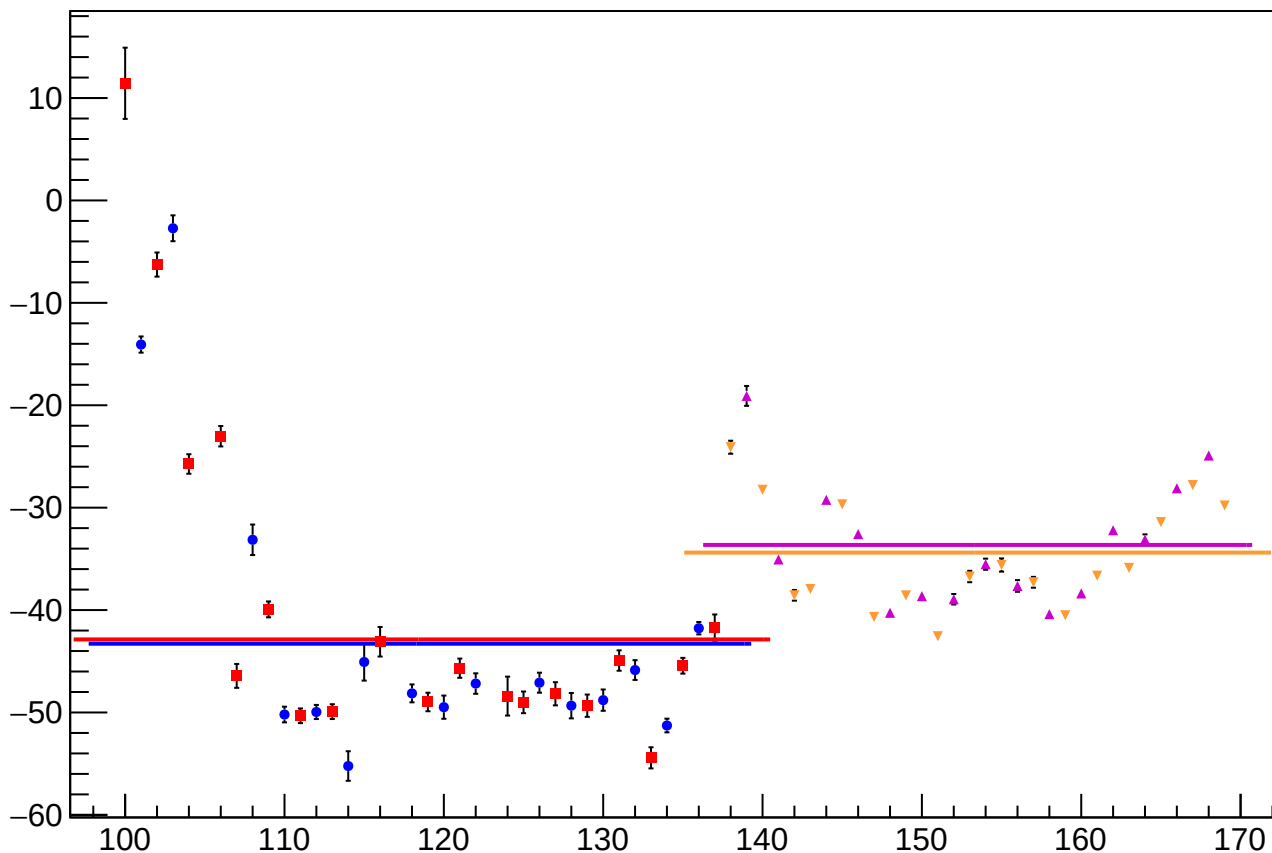
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 41.407 $\pm$ 0.211 χ^2 /NDF: 2746.0/15
 Left Out: 38.589 $\pm$ 0.125 χ^2 /NDF:3262.5/16
 Right Out: 39.784 $\pm$ 0.203 χ^2 /NDF: 2653.8/18
 Left In: 37.902 $\pm$ 0.130 χ^2 /NDF:4516.9/14

Left: 38.257 $\pm$ 0.090 χ^2 /NDF: 7794.0/31
 Right: 40.565 $\pm$ 0.146 χ^2 /NDF: 5430.6/34
 In: 38.864 $\pm$ 0.110 χ^2 /NDF:7463.8/30
 Out: 38.919 $\pm$ 0.107 χ^2 /NDF:5941.5/35
 All: 38.893 $\pm$ 0.077 χ^2 /NDF: 13405.4/66

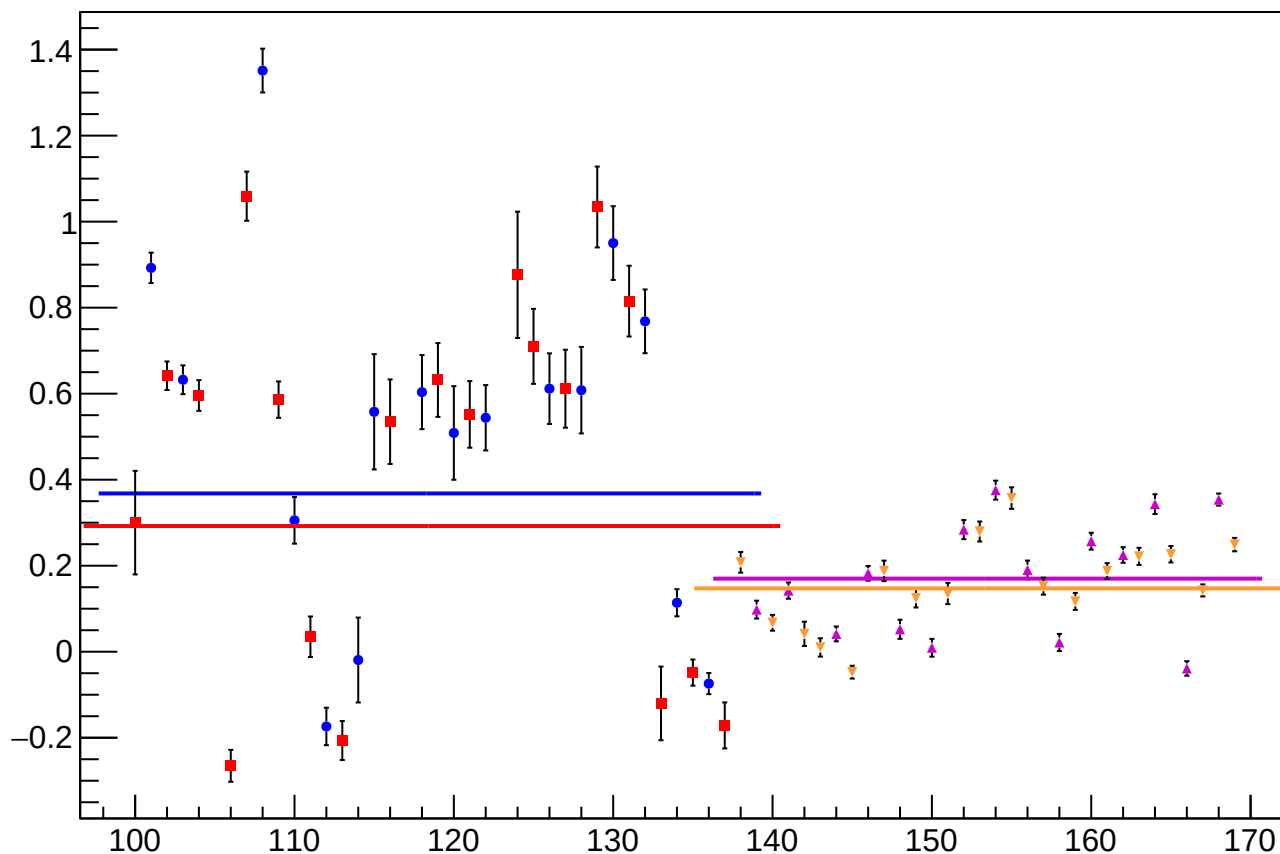
reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -43.285 ± 0.229 $\chi^2/\text{NDF}: 2985.2/15$
 Left Out: -34.386 ± 0.103 $\chi^2/\text{NDF}: 2439.8/16$
 Right Out: -42.867 ± 0.229 $\chi^2/\text{NDF}: 2454.2/18$
 Left In: -33.640 ± 0.108 $\chi^2/\text{NDF}: 2169.6/14$

Left: -34.031 ± 0.075 $\chi^2/\text{NDF}: 4634.2/31$
 Right: -43.076 ± 0.162 $\chi^2/\text{NDF}: 5441.1/34$
 In: -35.401 ± 0.098 $\chi^2/\text{NDF}: 6600.7/30$
 Out: -35.823 ± 0.094 $\chi^2/\text{NDF}: 6032.9/35$
 All: -35.620 ± 0.068 $\chi^2/\text{NDF}: 12643.3/66$

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.368 $\pm$ 0.012 χ^2 /NDF: 1320.9/15

Left Out: 0.147 $\pm$ 0.005 χ^2 /NDF:439.1/16

Right Out: 0.292 $\pm$ 0.012 χ^2 /NDF: 1199.2/18

Left In: 0.170 $\pm$ 0.005 χ^2 /NDF:737.2/14

Left: 0.158 $\pm$ 0.003 χ^2 /NDF: 1187.3/31

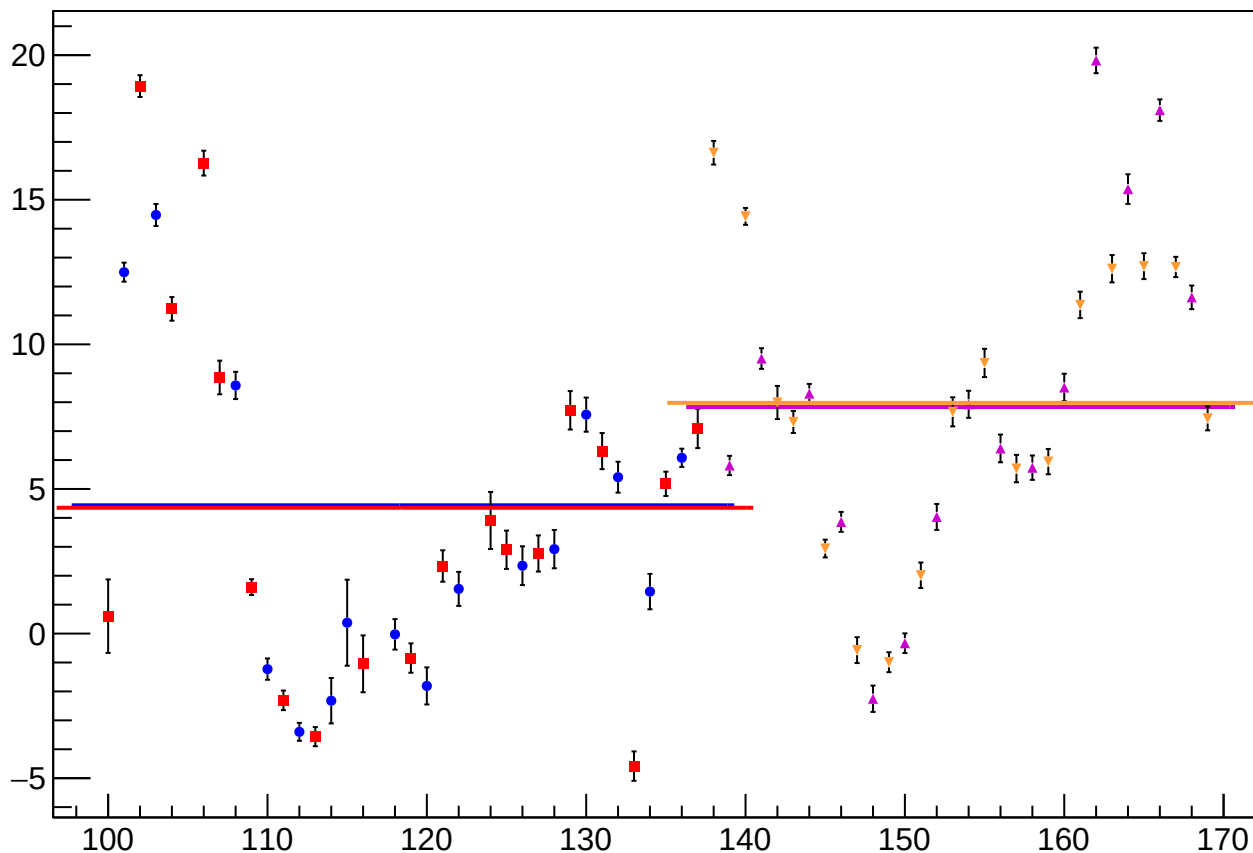
Right: 0.330 $\pm$ 0.009 χ^2 /NDF: 2539.6/34

In: 0.198 $\pm$ 0.005 χ^2 /NDF:2284.6/30

Out: 0.167 $\pm$ 0.004 χ^2 /NDF:1762.7/35

All: 0.182 $\pm$ 0.003 χ^2 /NDF: 4071.3/66

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 4.435+/-0.117 χ^2/NDF : 2622.0/15

Left Out: 7.978+/-0.099 χ^2/NDF :2935.7/16

Right Out: 4.351+/-0.109 χ^2/NDF : 4205.3/18

Left In: 7.833+/-0.103 χ^2/NDF :3168.9/14

Left: 7.909+/-0.071 χ^2/NDF : 6105.6/31

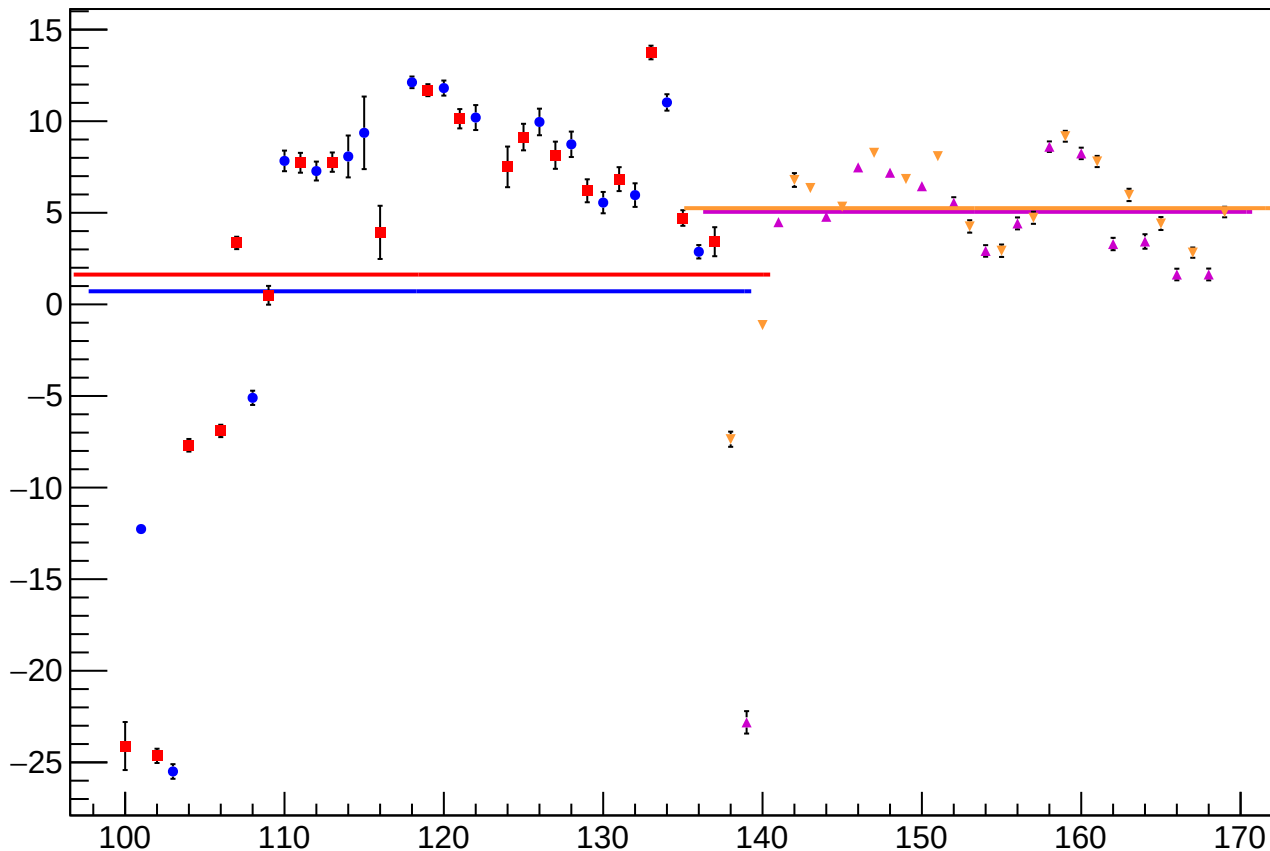
Right: 4.390+/-0.080 χ^2/NDF : 6827.6/34

In: 6.345+/-0.077 χ^2/NDF :6265.5/30

Out: 6.349+/-0.073 χ^2/NDF :7749.9/35

All: 6.347+/-0.053 χ^2/NDF : 14015.3/66

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.715+/-0.116 χ^2/NDF : 10454.0/15

Left Out: 5.252+/-0.069 χ^2/NDF :2424.5/16

Right Out: 1.627+/-0.111 χ^2/NDF : 9255.5/18

Left In: 5.052+/-0.074 χ^2/NDF :2926.9/14

Left: 5.159+/-0.051 χ^2/NDF : 5355.3/31

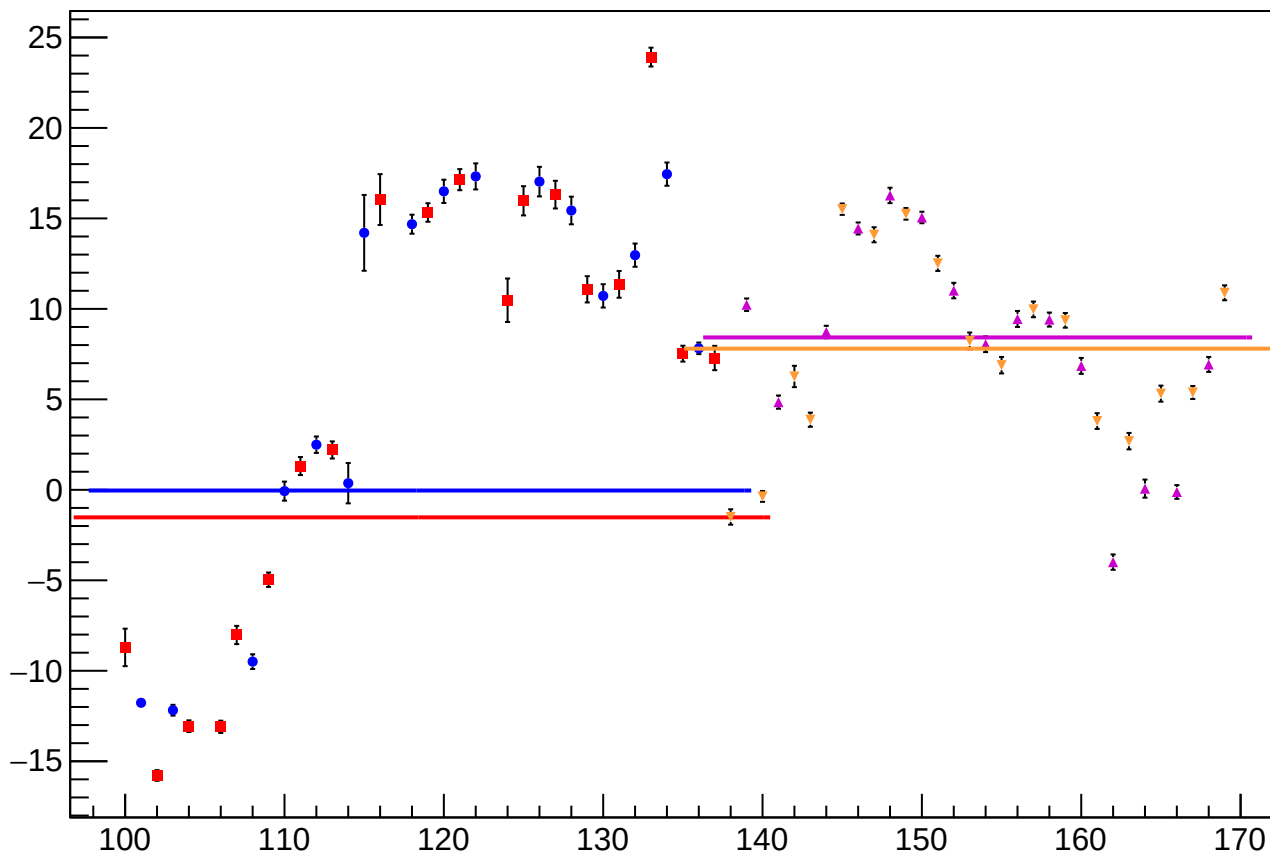
Right: 1.190+/-0.080 χ^2/NDF : 19741.8/34

In: 3.800+/-0.062 χ^2/NDF :14376.8/30

Out: 4.235+/-0.059 χ^2/NDF :12447.0/35

All: 4.030+/-0.043 χ^2/NDF : 26849.6/66

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -0.038 ± 0.119 χ^2/NDF : 9274.3/15

Left Out: 7.803 ± 0.097 χ^2/NDF : 3202.7/16

Right Out: -1.521 ± 0.115 χ^2/NDF : 12130.2/18

Left In: 8.423 ± 0.101 χ^2/NDF : 2945.4/14

Left: 8.101 ± 0.070 χ^2/NDF : 6167.8/31

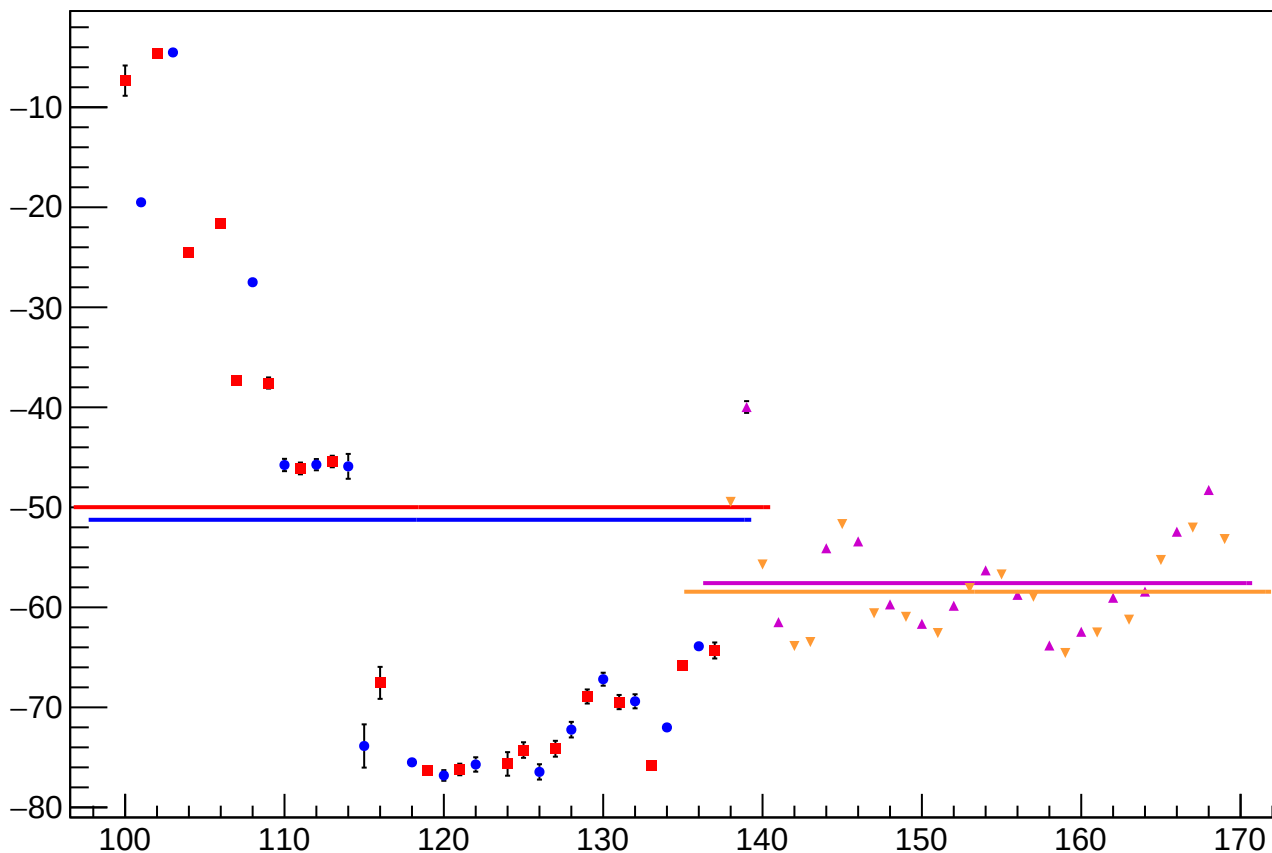
Right: -0.807 ± 0.083 χ^2/NDF : 21484.6/34

In: 4.908 ± 0.077 χ^2/NDF : 15156.9/30

Out: 3.943 ± 0.074 χ^2/NDF : 19179.7/35

All: 4.407 ± 0.053 χ^2/NDF : 34418.1/66

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -51.246+/-0.136 χ^2/NDF : 33765.2/15

Left Out: -58.438+/-0.080 χ^2/NDF : 3100.4/16

Right Out: -49.983+/-0.131 χ^2/NDF : 33892.5/18

Left In: -57.577+/-0.085 χ^2/NDF : 3308.5/14

Left: -58.033+/-0.059 χ^2/NDF : 6462.7/31

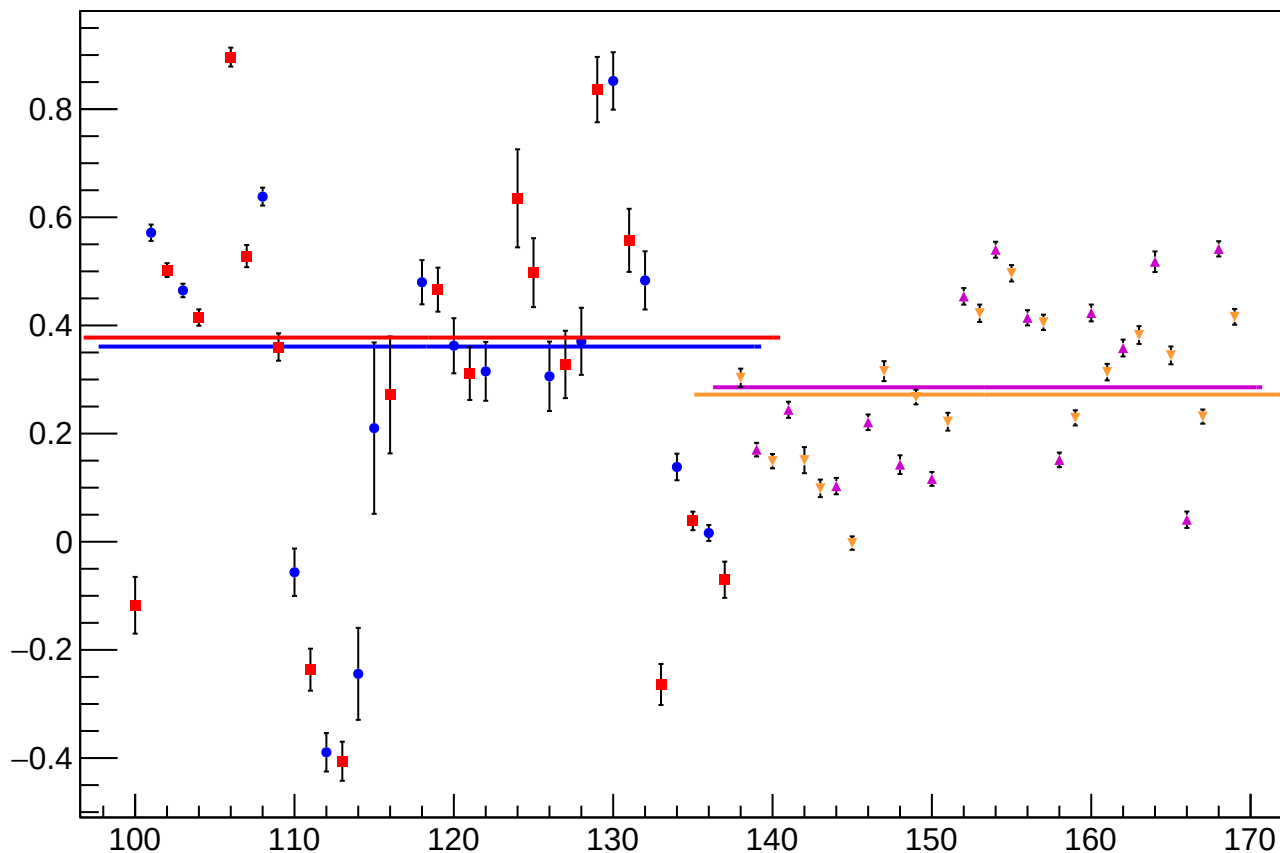
Right: -50.590+/-0.094 χ^2/NDF : 67702.6/34

In: -55.783+/-0.072 χ^2/NDF : 38632.4/30

Out: -56.115+/-0.068 χ^2/NDF : 40029.0/35

All: -55.958+/-0.050 χ^2/NDF : 78672.5/66

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.361 ± 0.006 χ^2/NDF : 1860.0/15

Left Out: 0.272 ± 0.004 χ^2/NDF : 1316.0/16

Right Out: 0.378 ± 0.006 χ^2/NDF : 2790.5/18

Left In: 0.286 ± 0.004 χ^2/NDF : 1938.7/14

Left: 0.279 ± 0.003 χ^2/NDF : 3261.3/31

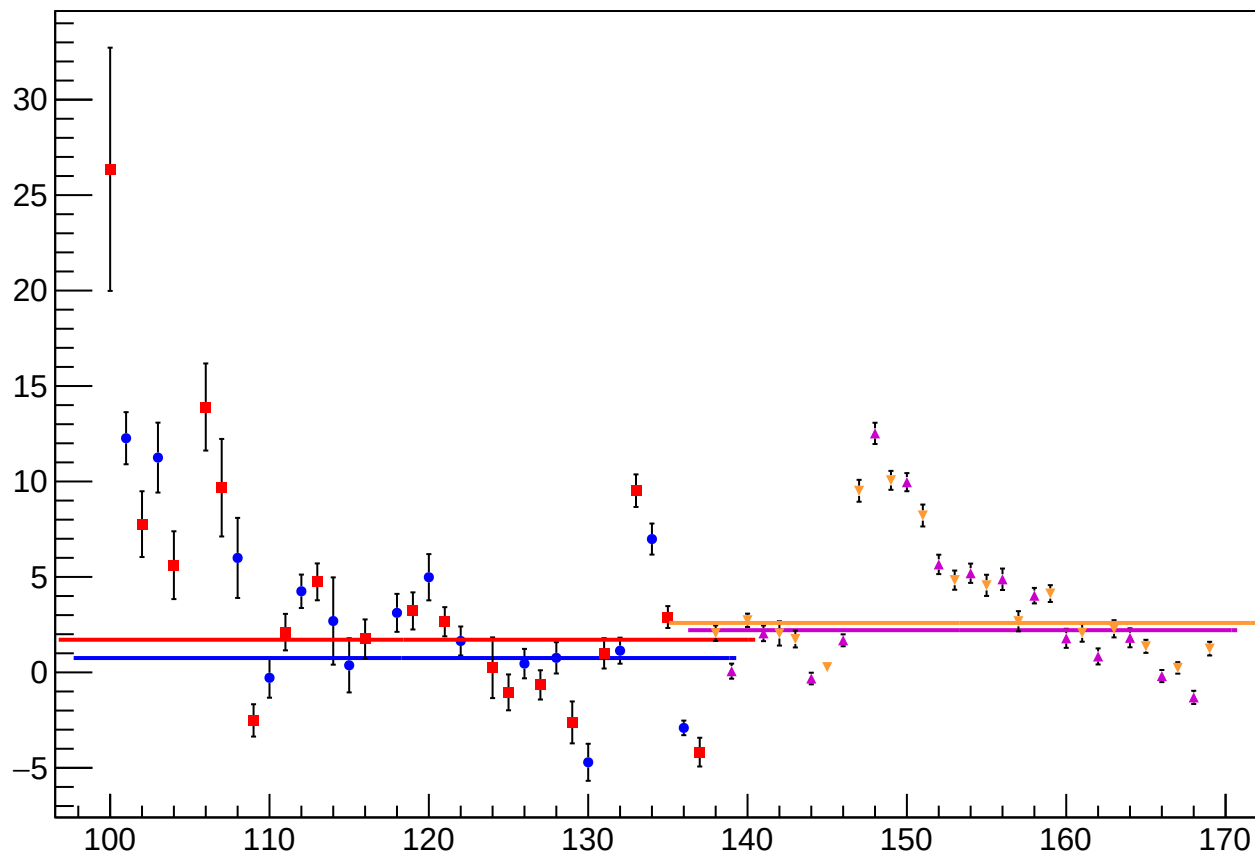
Right: 0.370 ± 0.004 χ^2/NDF : 4654.1/34

In: 0.305 ± 0.003 χ^2/NDF : 3901.7/30

Out: 0.300 ± 0.003 χ^2/NDF : 4325.0/35

All: 0.303 ± 0.002 χ^2/NDF : 8228.2/66

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.752 ± 0.212 χ^2/NDF : 330.1/15

Left Out: 2.591 ± 0.100 χ^2/NDF : 687.2/16

Right Out: 1.710 ± 0.223 χ^2/NDF : 293.8/18

Left In: 2.211 ± 0.105 χ^2/NDF : 1008.7/14

Left: 2.410 ± 0.073 χ^2/NDF : 1702.7/31

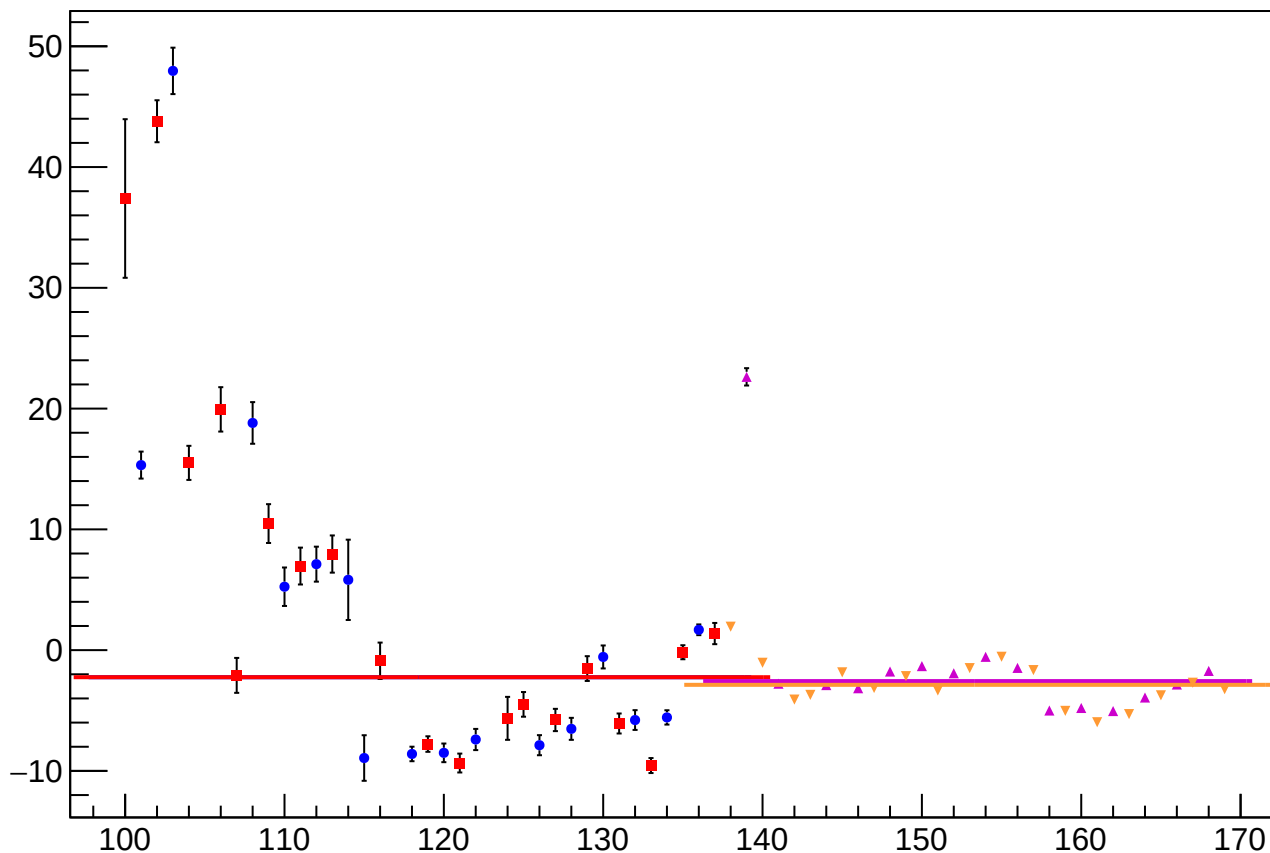
Right: 1.208 ± 0.154 χ^2/NDF : 633.6/34

In: 1.923 ± 0.094 χ^2/NDF : 1376.7/30

Out: 2.442 ± 0.092 χ^2/NDF : 994.0/35

All: 2.191 ± 0.066 χ^2/NDF : 2386.3/66

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.245 ± 0.215 χ^2/NDF : 1572.5/15

Left Out: -2.873 ± 0.072 χ^2/NDF : 519.8/16

Right Out: -2.242 ± 0.229 χ^2/NDF : 1555.6/18

Left In: -2.563 ± 0.076 χ^2/NDF : 1520.6/14

Left: -2.725 ± 0.052 χ^2/NDF : 2049.1/31

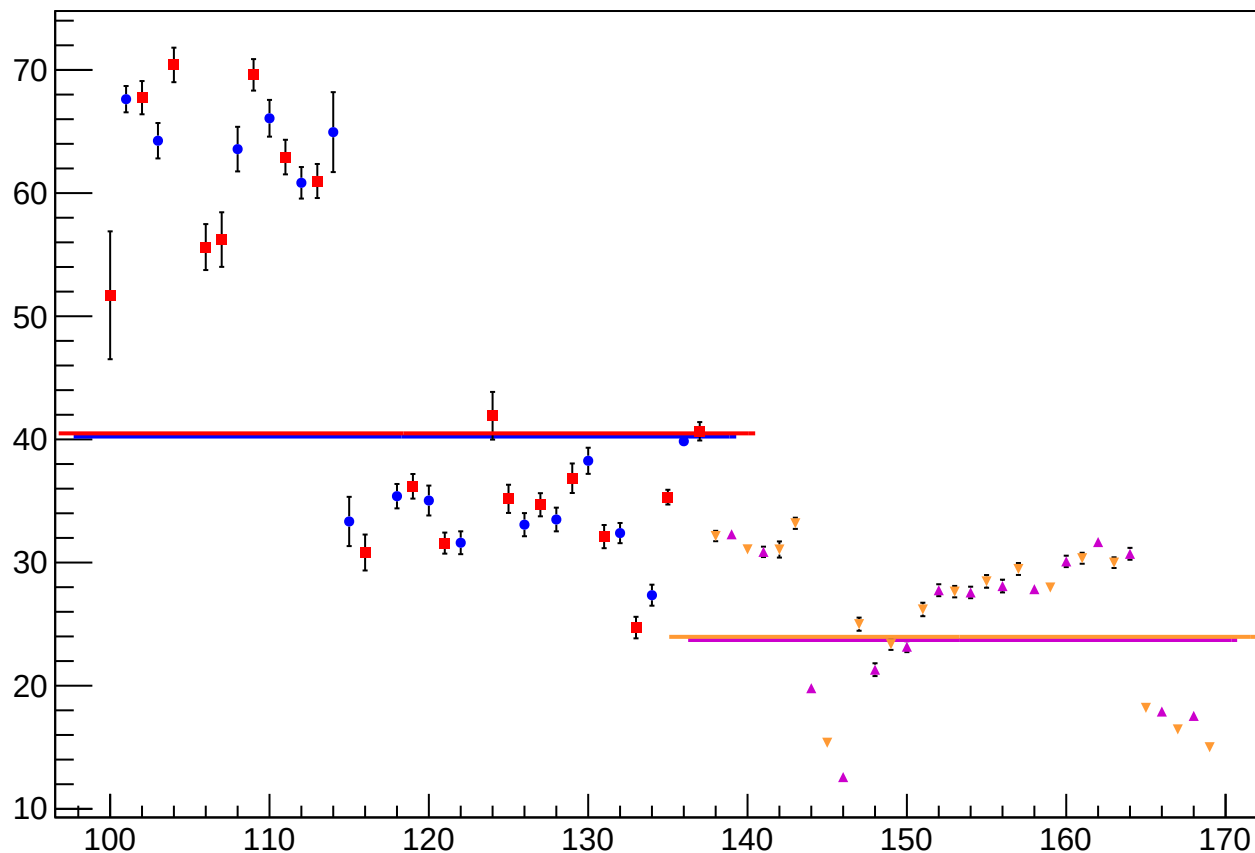
Right: -2.244 ± 0.157 χ^2/NDF : 3128.1/34

In: -2.528 ± 0.071 χ^2/NDF : 3095.0/30

Out: -2.816 ± 0.069 χ^2/NDF : 2082.3/35

All: -2.677 ± 0.050 χ^2/NDF : 5185.8/66

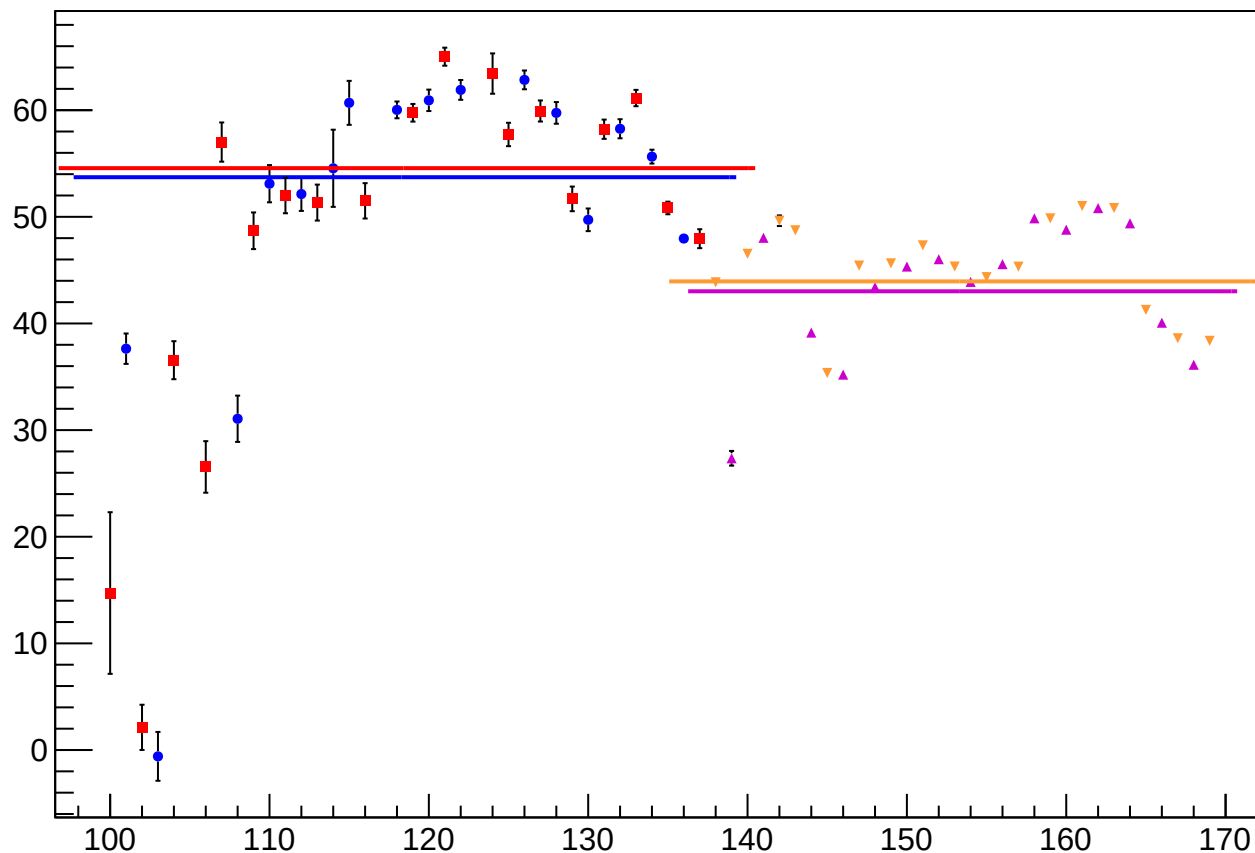
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 40.232 $\pm$ 0.231 χ^2 /NDF: 2291.1/15
 Left Out: 23.968 $\pm$ 0.099 χ^2 /NDF: 4588.9/16
 Right Out: 40.490 $\pm$ 0.250 χ^2 /NDF: 2698.0/18
 Left In: 23.711 $\pm$ 0.103 χ^2 /NDF: 4014.0/14

Left: 23.844 $\pm$ 0.072 χ^2 /NDF: 8606.1/31
 Right: 40.351 $\pm$ 0.170 χ^2 /NDF: 4989.7/34
 In: 26.450 $\pm$ 0.094 χ^2 /NDF: 10556.0/30
 Out: 26.210 $\pm$ 0.092 χ^2 /NDF: 11048.8/35
 All: 26.328 $\pm$ 0.066 χ^2 /NDF: 21608.1/66

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 53.715 $\pm$ 0.239 χ^2 /NDF: 1362.7/15

Left Out: 43.947 $\pm$ 0.082 χ^2 /NDF: 3824.2/16

Right Out: 54.565 $\pm$ 0.256 χ^2 /NDF: 1342.6/18

Left In: 43.017 $\pm$ 0.087 χ^2 /NDF: 4328.9/14

Left: 43.507 $\pm$ 0.060 χ^2 /NDF: 8213.3/31

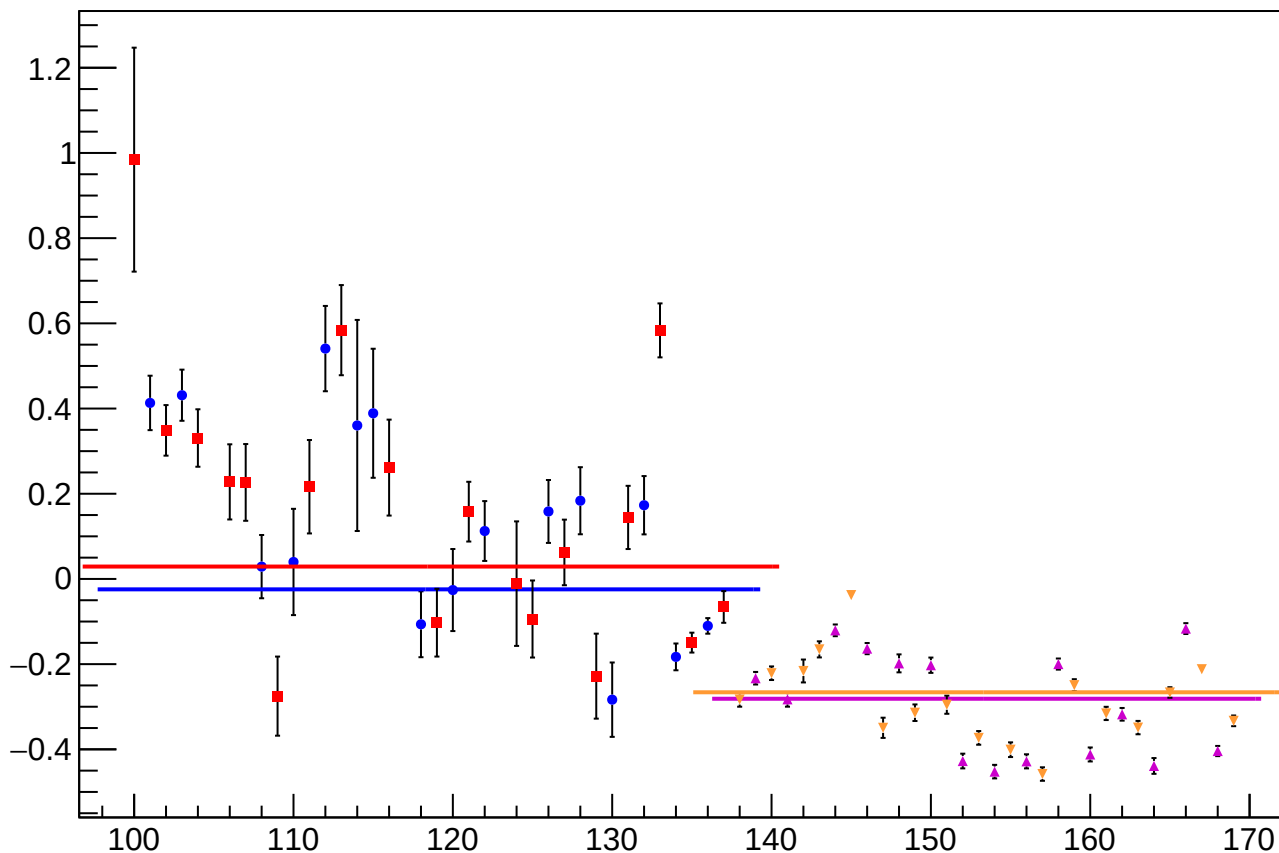
Right: 54.111 $\pm$ 0.175 χ^2 /NDF: 2711.2/34

In: 44.271 $\pm$ 0.082 χ^2 /NDF: 7460.2/30

Out: 44.945 $\pm$ 0.079 χ^2 /NDF: 6723.9/35

All: 44.622 $\pm$ 0.057 χ^2 /NDF: 14219.3/66

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.024 ± 0.013 $\chi^2/\text{NDF}: 229.7/15$

Left Out: -0.266 ± 0.004 $\chi^2/\text{NDF}: 852.5/16$

Right Out: 0.029 ± 0.014 $\chi^2/\text{NDF}: 276.4/18$

Left In: -0.281 ± 0.004 $\chi^2/\text{NDF}: 980.9/14$

Left: -0.273 ± 0.003 $\chi^2/\text{NDF}: 1841.3/31$

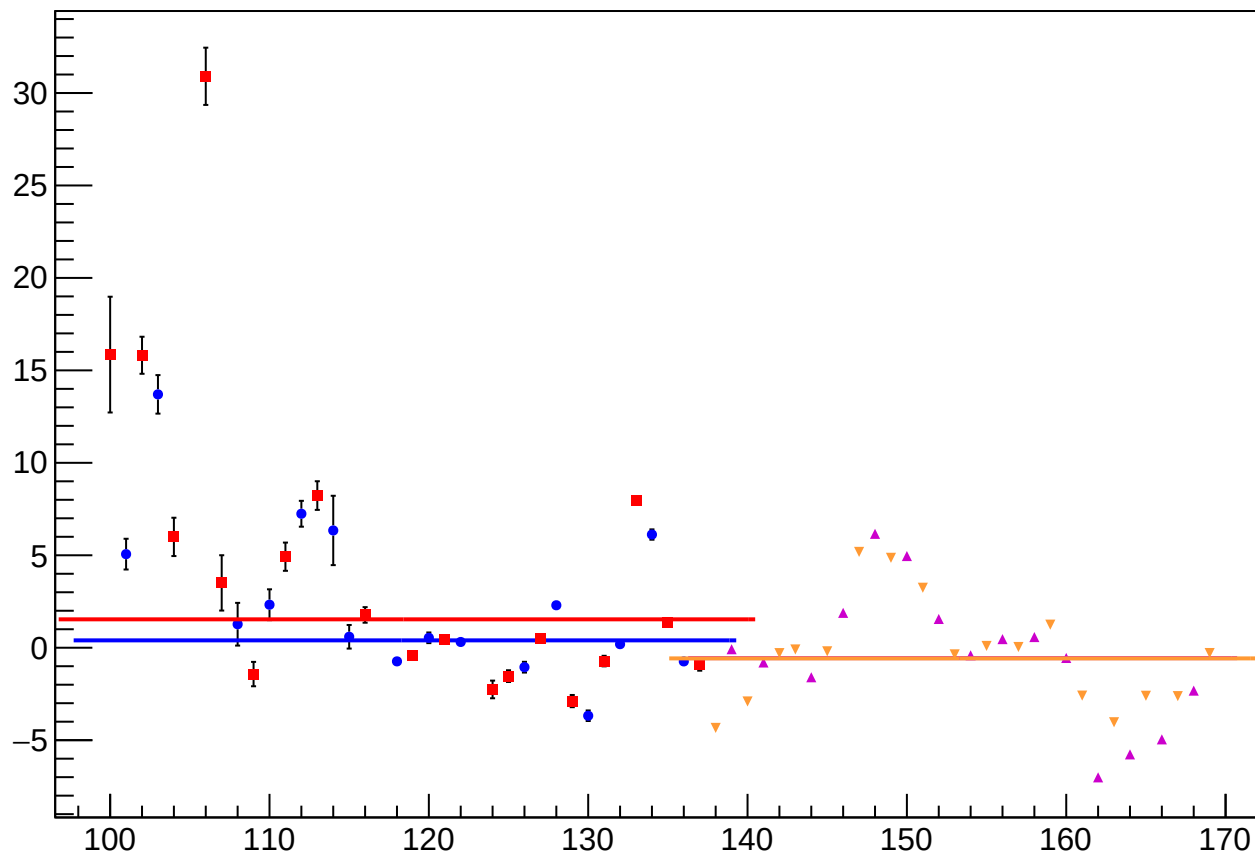
Right: -0.001 ± 0.010 $\chi^2/\text{NDF}: 513.9/34$

In: -0.259 ± 0.004 $\chi^2/\text{NDF}: 1578.6/30$

Out: -0.247 ± 0.004 $\chi^2/\text{NDF}: 1530.5/35$

All: -0.253 ± 0.003 $\chi^2/\text{NDF}: 3114.6/66$

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 0.398 ± 0.077 $\chi^2/\text{NDF}: 1097.4/15$

Left Out: -0.577 ± 0.038 $\chi^2/\text{NDF}: 4429.6/16$

Right Out: 1.536 ± 0.078 $\chi^2/\text{NDF}: 2411.2/18$

Left In: -0.562 ± 0.040 $\chi^2/\text{NDF}: 6577.6/14$

Left: -0.570 ± 0.028 $\chi^2/\text{NDF}: 11007.3/31$

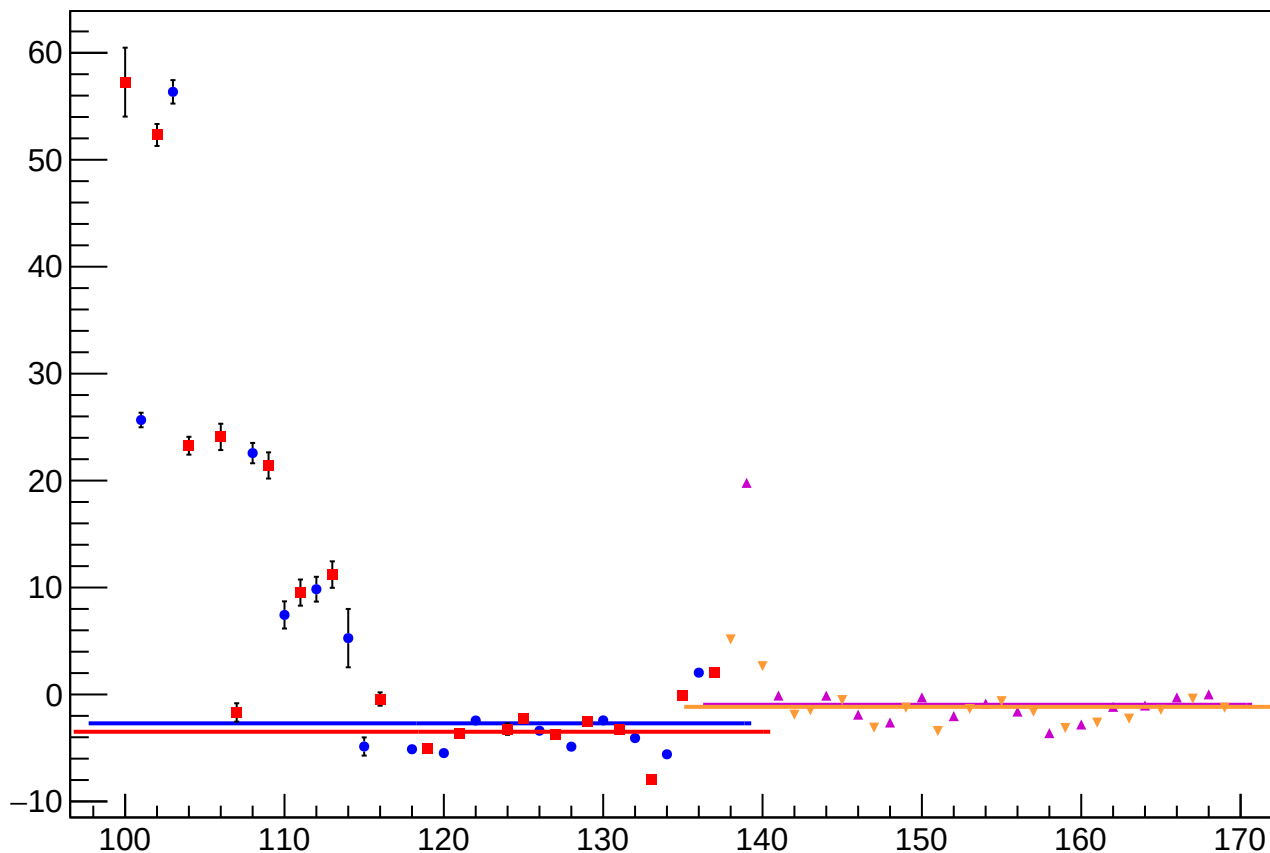
Right: 0.959 ± 0.055 $\chi^2/\text{NDF}: 3615.8/34$

In: -0.362 ± 0.035 $\chi^2/\text{NDF}: 7797.9/30$

Out: -0.167 ± 0.034 $\chi^2/\text{NDF}: 7429.1/35$

All: -0.262 ± 0.025 $\chi^2/\text{NDF}: 15242.7/66$

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.699 ± 0.071 χ^2/NDF : 7103.8/15

Left Out: -1.157 ± 0.028 χ^2/NDF : 4252.1/16

Right Out: -3.486 ± 0.071 χ^2/NDF : 7159.9/18

Left In: -0.962 ± 0.029 χ^2/NDF : 8222.8/14

Left: -1.063 ± 0.020 χ^2/NDF : 12498.9/31

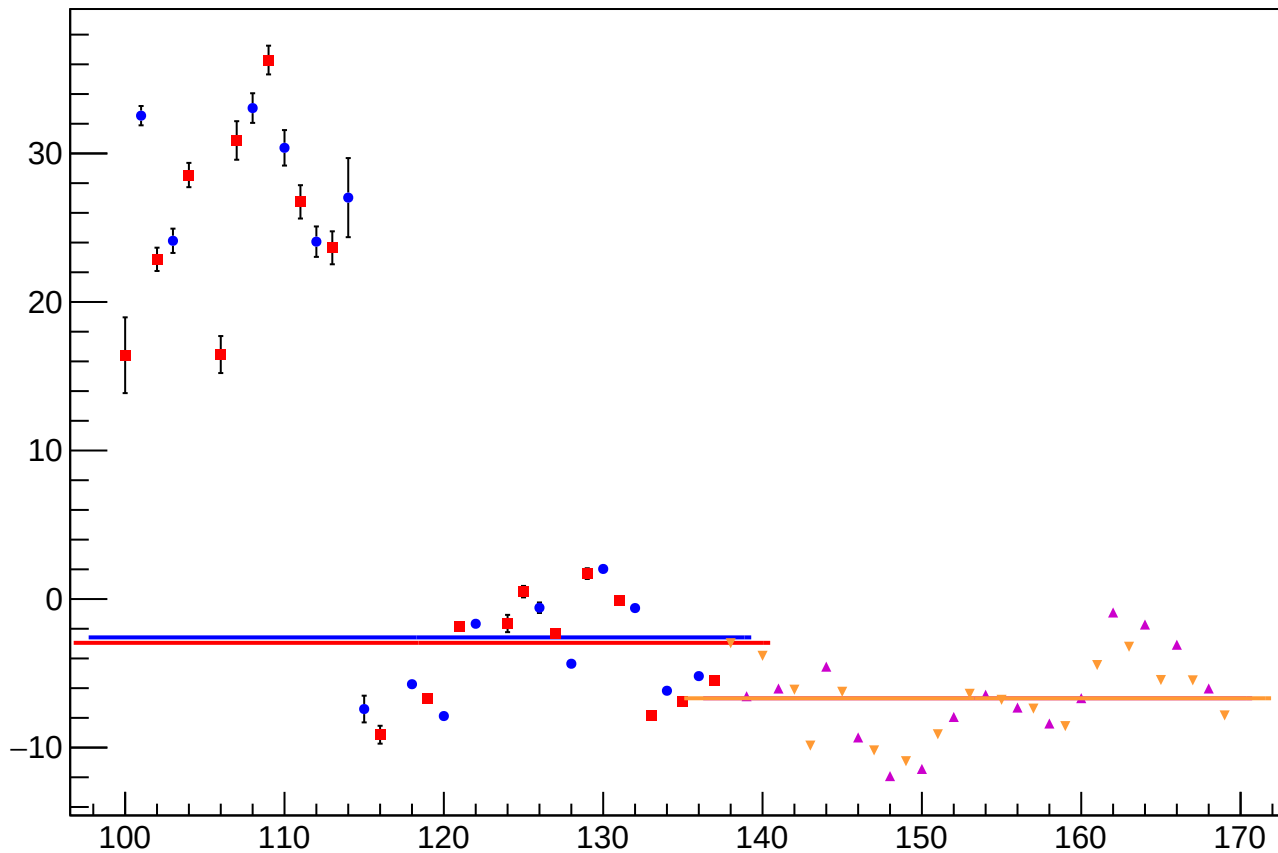
Right: -3.091 ± 0.050 χ^2/NDF : 14325.4/34

In: -1.205 ± 0.026 χ^2/NDF : 15845.0/30

Out: -1.462 ± 0.026 χ^2/NDF : 12350.6/35

All: -1.338 ± 0.018 χ^2/NDF : 28244.2/66

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -2.582 ± 0.083 χ^2/NDF : 8159.7/15

Left Out: -6.681 ± 0.038 χ^2/NDF : 3619.4/16

Right Out: -2.948 ± 0.085 χ^2/NDF : 8196.4/18

Left In: -6.681 ± 0.039 χ^2/NDF : 5570.4/14

Left: -6.681 ± 0.027 χ^2/NDF : 9189.7/31

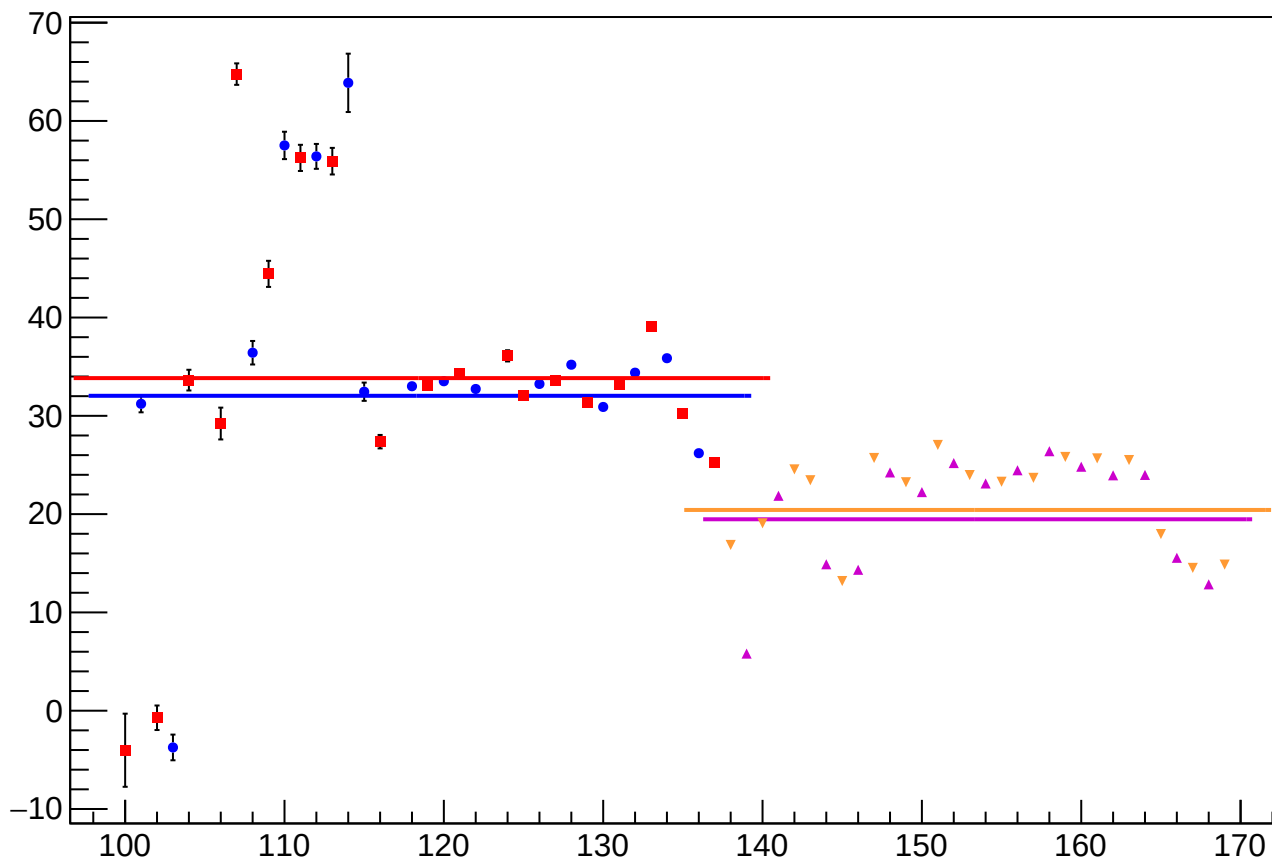
Right: -2.761 ± 0.059 χ^2/NDF : 16365.7/34

In: -5.945 ± 0.035 χ^2/NDF : 15727.3/30

Out: -6.060 ± 0.035 χ^2/NDF : 13426.0/35

All: -6.004 ± 0.025 χ^2/NDF : 29158.7/66

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 32.038 $\pm$ 0.081 χ^2 /NDF: 3255.9/15

Left Out: 20.424 $\pm$ 0.032 χ^2 /NDF:24347.5/16

Right Out: 33.837 $\pm$ 0.082 χ^2 /NDF: 4237.8/18

Left In: 19.475 $\pm$ 0.033 χ^2 /NDF:24189.9/14

Left: 19.969 $\pm$ 0.023 χ^2 /NDF: 48966.9/31

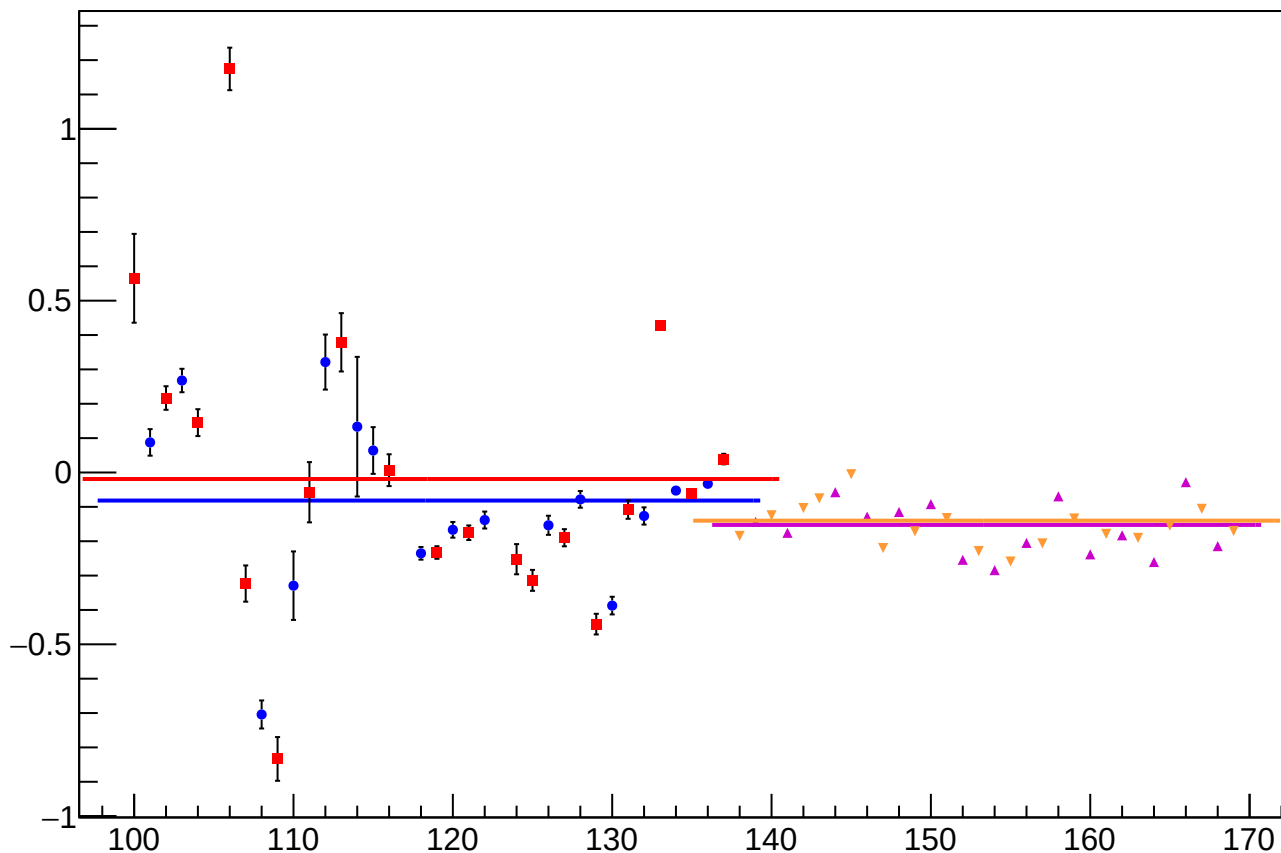
Right: 32.934 $\pm$ 0.058 χ^2 /NDF: 7737.6/34

In: 21.258 $\pm$ 0.031 χ^2 /NDF:47940.9/30

Out: 22.184 $\pm$ 0.030 χ^2 /NDF:52047.7/35

All: 21.738 $\pm$ 0.021 χ^2 /NDF: 100461.6/66

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.082 ± 0.005 χ^2/NDF : 689.2/15

Left Out: -0.140 ± 0.001 χ^2/NDF : 2257.4/16

Right Out: -0.019 ± 0.005 χ^2/NDF : 2273.7/18

Left In: -0.153 ± 0.001 χ^2/NDF : 2628.9/14

Left: -0.146 ± 0.001 χ^2/NDF : 4921.9/31

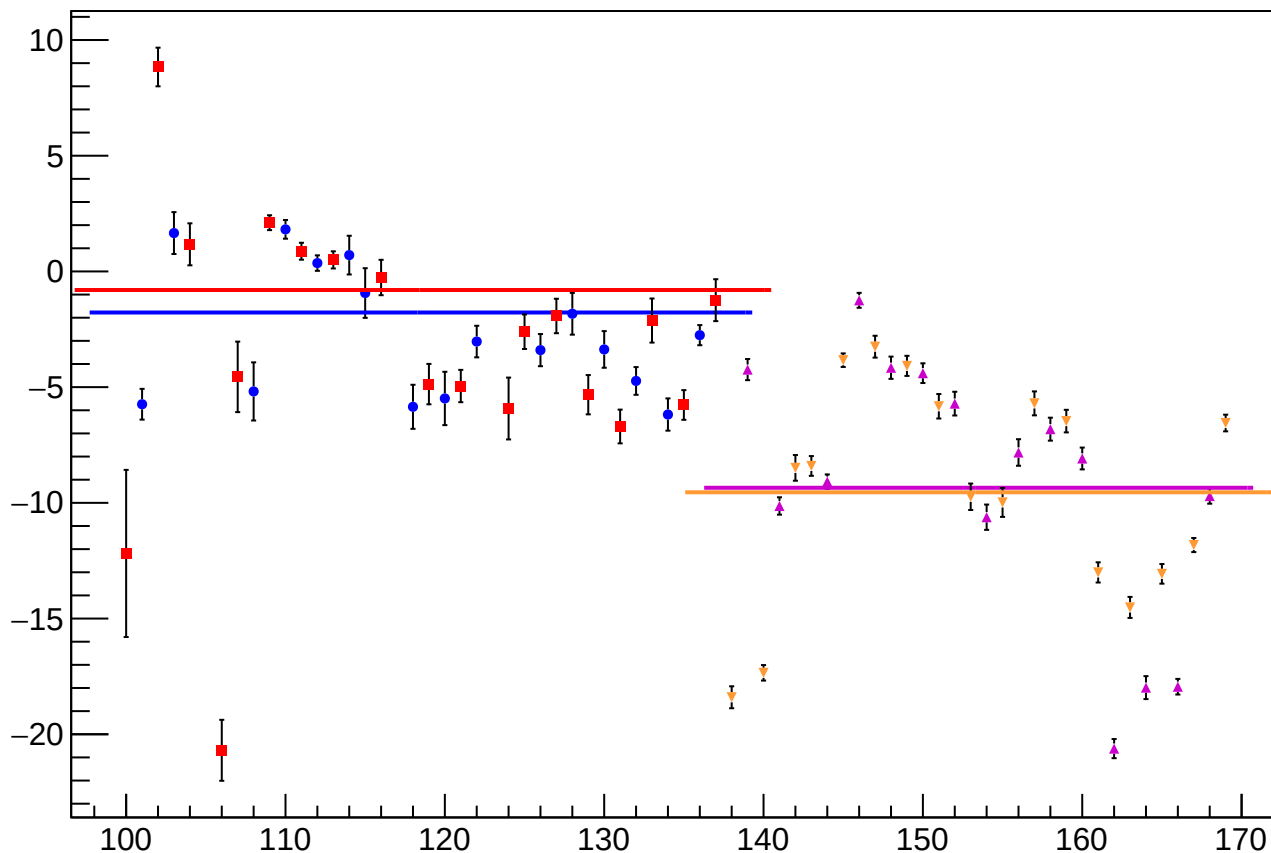
Right: -0.053 ± 0.004 χ^2/NDF : 3041.0/34

In: -0.146 ± 0.001 χ^2/NDF : 3514.9/30

Out: -0.132 ± 0.001 χ^2/NDF : 5036.1/35

All: -0.139 ± 0.001 χ^2/NDF : 8606.9/66

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.775 ± 0.157 χ^2/NDF : 297.7/15

Left Out: -9.544 ± 0.103 χ^2/NDF : 2136.5/16

Right Out: -0.803 ± 0.148 χ^2/NDF : 733.7/18

Left In: -9.348 ± 0.106 χ^2/NDF : 2801.4/14

Left: -9.449 ± 0.074 χ^2/NDF : 4939.7/31

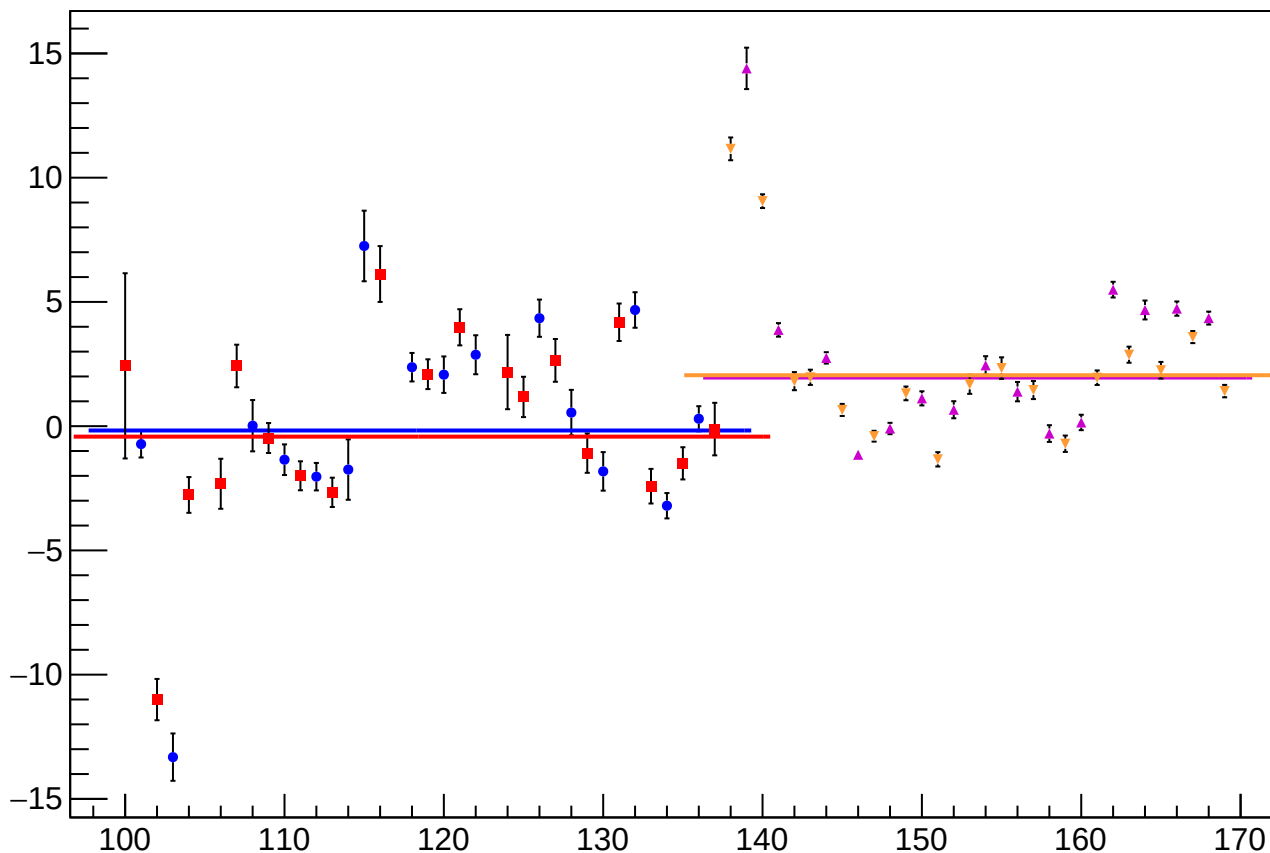
Right: -1.261 ± 0.108 χ^2/NDF : 1051.6/34

In: -6.967 ± 0.088 χ^2/NDF : 4691.9/30

Out: -6.710 ± 0.084 χ^2/NDF : 5217.2/35

All: -6.833 ± 0.061 χ^2/NDF : 9913.6/66

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.174 ± 0.173 χ^2/NDF : 403.1/15

Left Out: 2.050 ± 0.072 χ^2/NDF : 1467.1/16

Right Out: -0.421 ± 0.177 χ^2/NDF : 366.3/18

Left In: 1.957 ± 0.075 χ^2/NDF : 1080.0/14

Left: 2.005 ± 0.052 χ^2/NDF : 2547.8/31

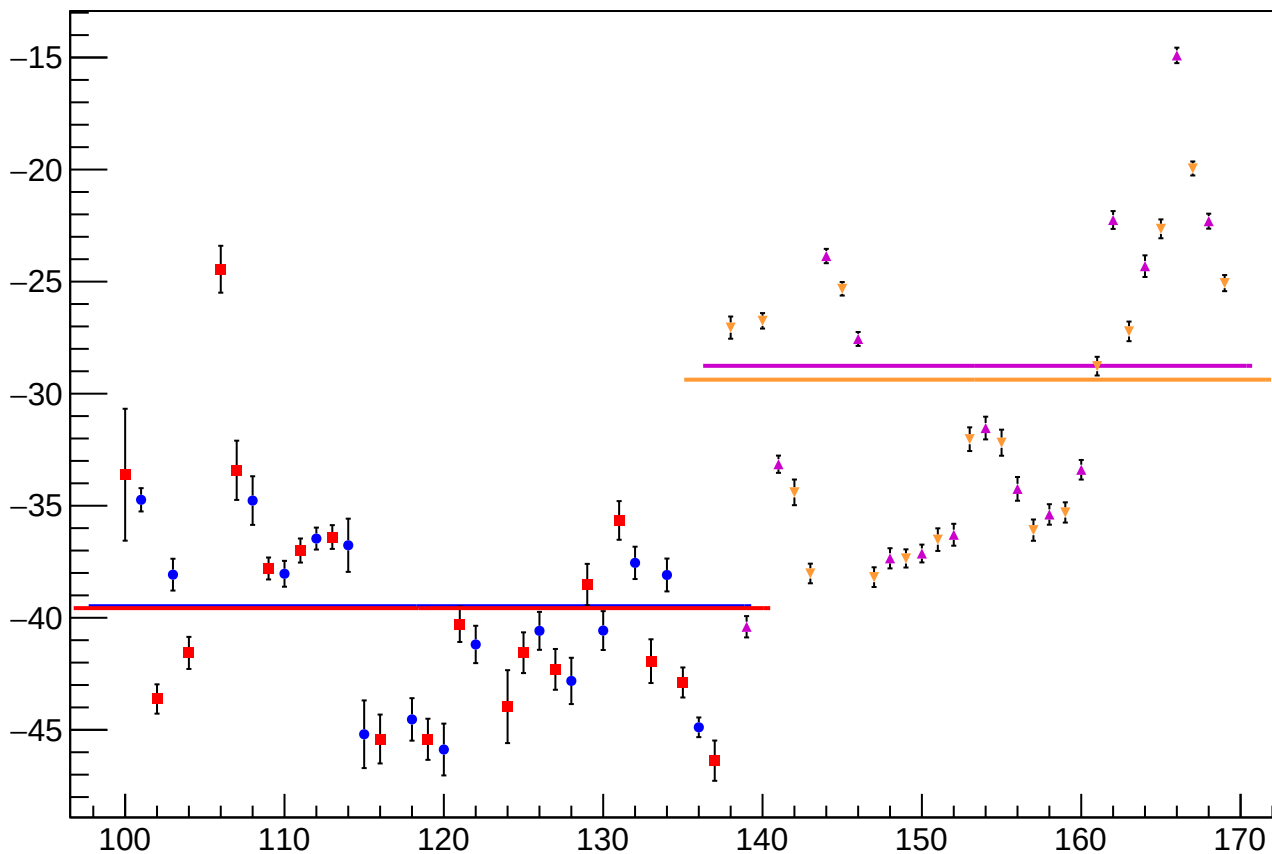
Right: -0.295 ± 0.124 χ^2/NDF : 770.4/34

In: 1.619 ± 0.069 χ^2/NDF : 1610.7/30

Out: 1.697 ± 0.067 χ^2/NDF : 2000.0/35

All: 1.659 ± 0.048 χ^2/NDF : 3611.4/66

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -39.484 ± 0.180 χ^2/NDF : 409.3/15

Left Out: -29.375 ± 0.101 χ^2/NDF : 3471.7/16

Right Out: -39.570 ± 0.181 χ^2/NDF : 553.5/18

Left In: -28.757 ± 0.104 χ^2/NDF : 4823.3/14

Left: -29.075 ± 0.073 χ^2/NDF : 8313.1/31

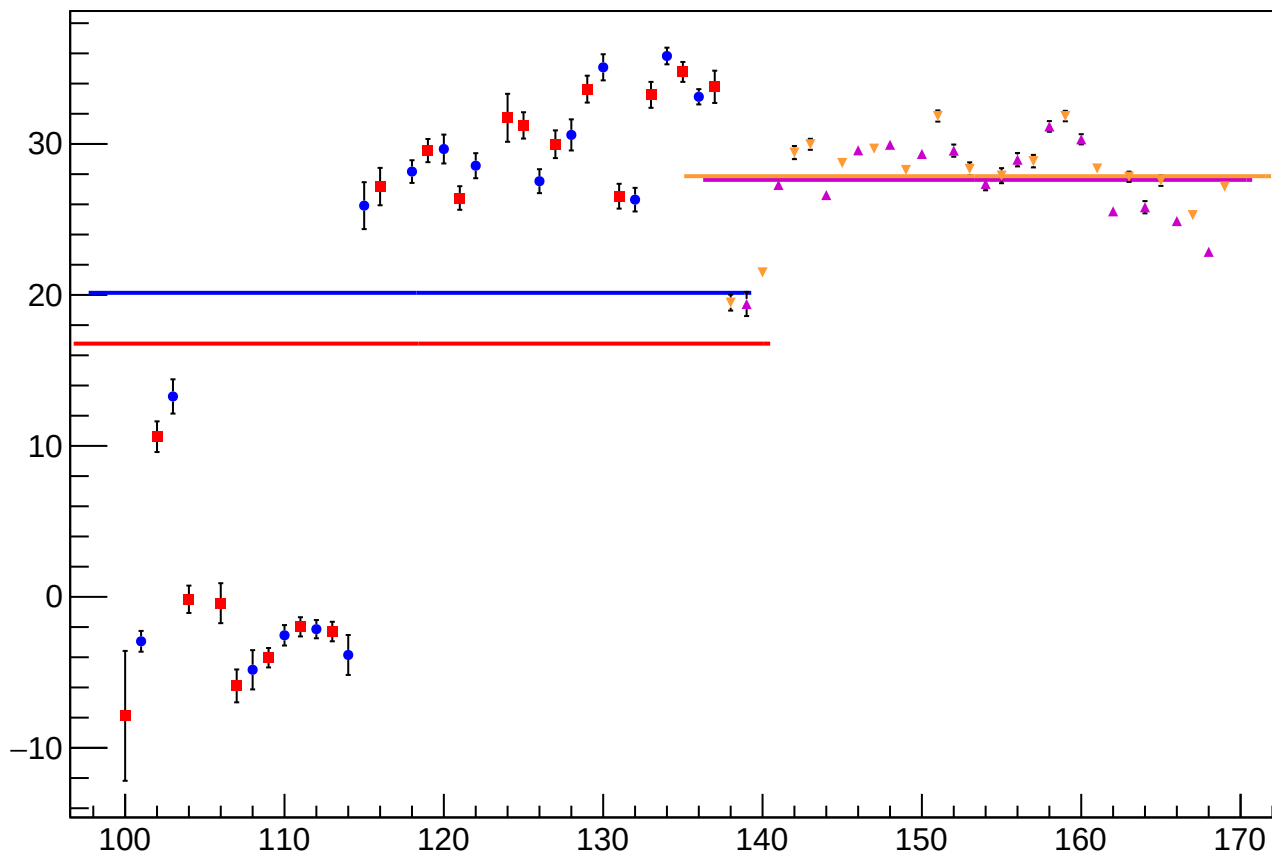
Right: -39.526 ± 0.128 χ^2/NDF : 962.9/34

In: -31.442 ± 0.090 χ^2/NDF : 7888.2/30

Out: -31.808 ± 0.088 χ^2/NDF : 6441.0/35

All: -31.629 ± 0.063 χ^2/NDF : 14337.6/66

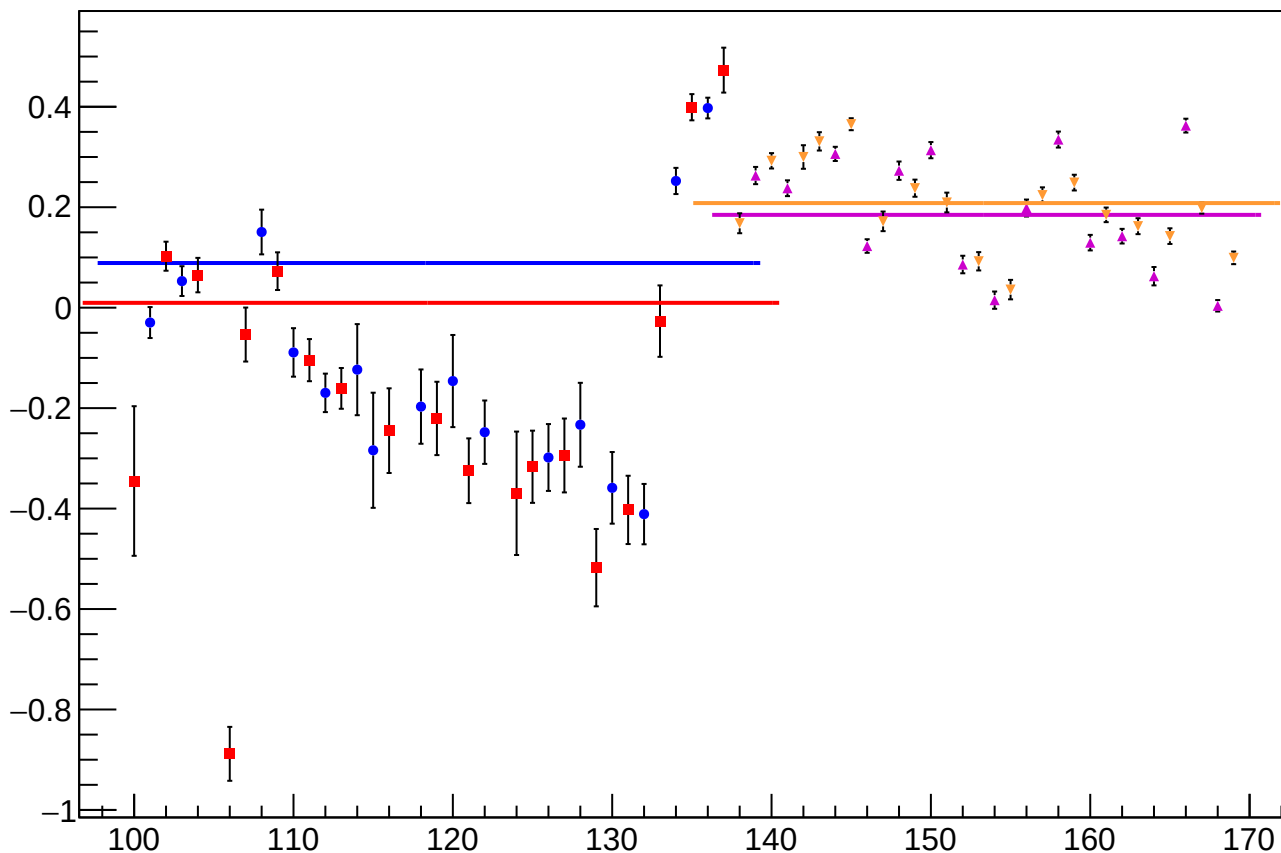
reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.140 $\pm$ 0.195 χ^2 /NDF: 6684.6/15
 Left Out: 27.865 $\pm$ 0.084 χ^2 /NDF:1072.1/16
 Right Out: 16.775 $\pm$ 0.200 χ^2 /NDF: 6739.1/18
 Left In: 27.623 $\pm$ 0.087 χ^2 /NDF:849.8/14

Left: 27.749 $\pm$ 0.060 χ^2 /NDF: 1925.9/31
 Right: 18.500 $\pm$ 0.139 χ^2 /NDF: 13569.2/34
 In: 26.373 $\pm$ 0.080 χ^2 /NDF:8764.7/30
 Out: 26.213 $\pm$ 0.077 χ^2 /NDF:10435.7/35
 All: 26.291 $\pm$ 0.055 χ^2 /NDF: 19202.5/66

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.089 $\pm$ 0.010 χ^2 /NDF: 563.9/15

Left Out: 0.208 $\pm$ 0.004 χ^2 /NDF:506.0/16

Right Out: 0.010 $\pm$ 0.011 χ^2 /NDF: 834.8/18

Left In: 0.185 $\pm$ 0.004 χ^2 /NDF:915.9/14

Left: 0.197 $\pm$ 0.003 χ^2 /NDF: 1440.0/31

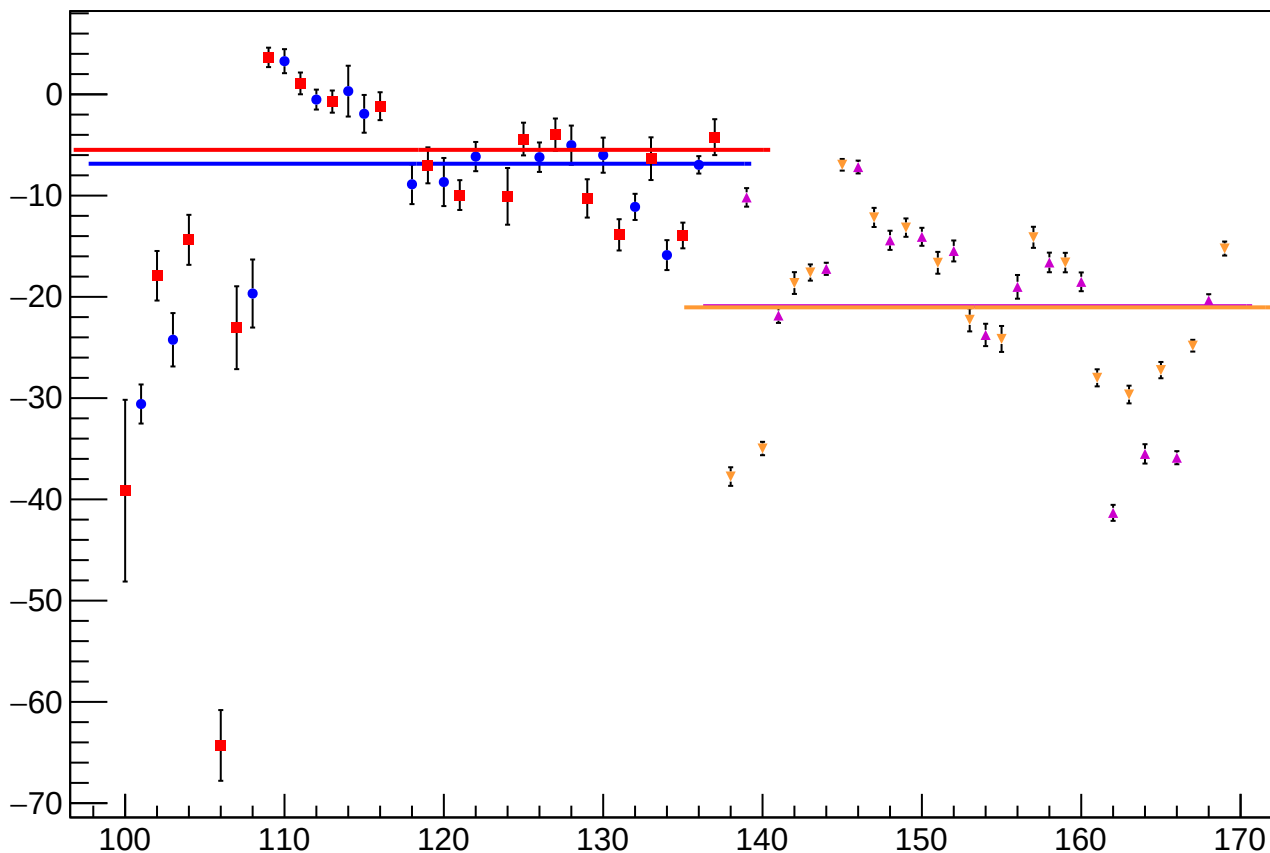
Right: 0.052 $\pm$ 0.008 χ^2 /NDF: 1426.1/34

In: 0.173 $\pm$ 0.004 χ^2 /NDF:1553.8/30

Out: 0.187 $\pm$ 0.004 χ^2 /NDF:1630.7/35

All: 0.180 $\pm$ 0.003 χ^2 /NDF: 3192.0/66

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -6.853 ± 0.376 χ^2/NDF : 390.1/15

Left Out: -21.036 ± 0.201 χ^2/NDF : 1986.3/16

Right Out: -5.483 ± 0.369 χ^2/NDF : 606.5/18

Left In: -20.919 ± 0.208 χ^2/NDF : 2251.6/14

Left: -20.980 ± 0.145 χ^2/NDF : 4238.0/31

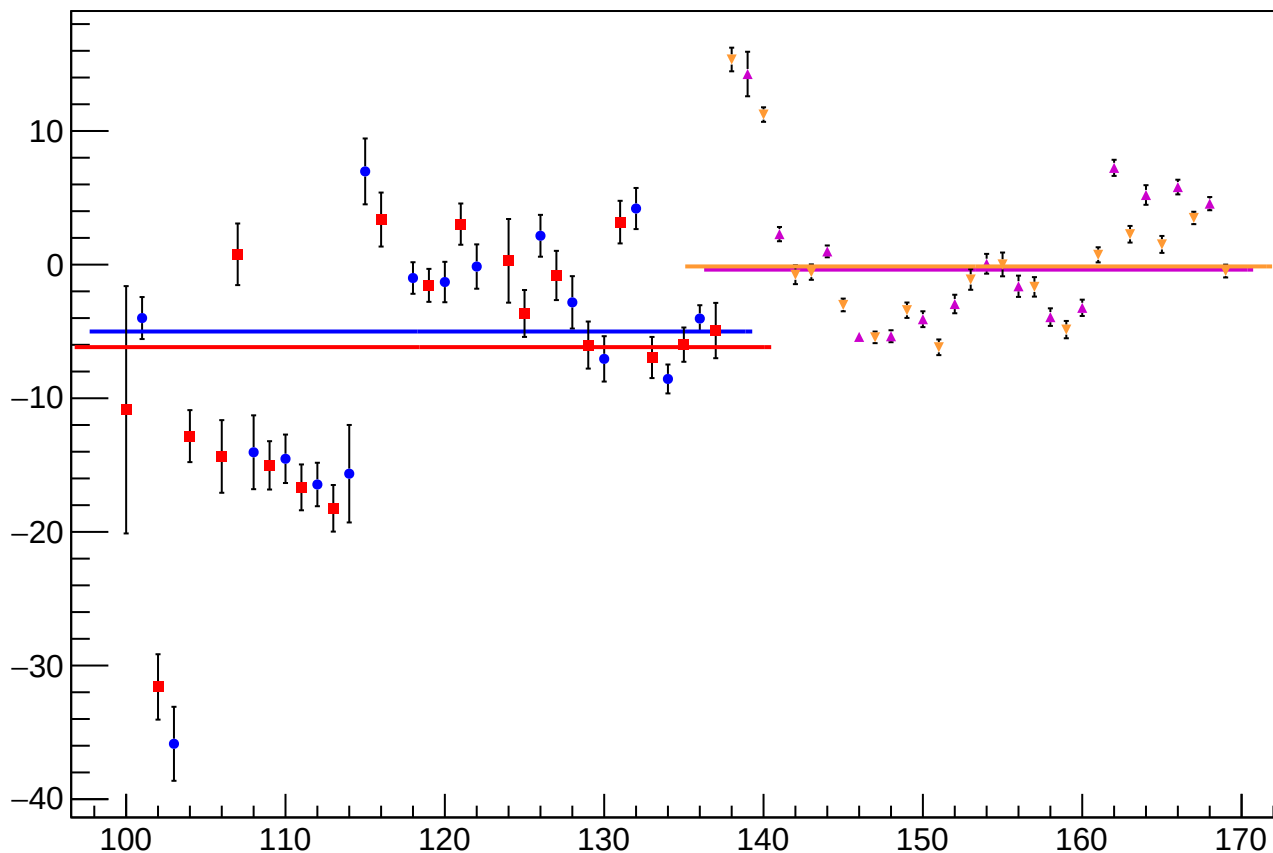
Right: -6.155 ± 0.263 χ^2/NDF : 1003.4/34

In: -17.609 ± 0.182 χ^2/NDF : 3714.1/30

Out: -17.482 ± 0.176 χ^2/NDF : 3963.5/35

All: -17.543 ± 0.127 χ^2/NDF : 7677.9/66

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.005 ± 0.395 χ^2/NDF : 341.7/15

Left Out: -0.135 ± 0.142 χ^2/NDF : 1213.8/16

Right Out: -6.173 ± 0.417 χ^2/NDF : 369.1/18

Left In: -0.374 ± 0.147 χ^2/NDF : 965.1/14

Left: -0.250 ± 0.102 χ^2/NDF : 2180.3/31

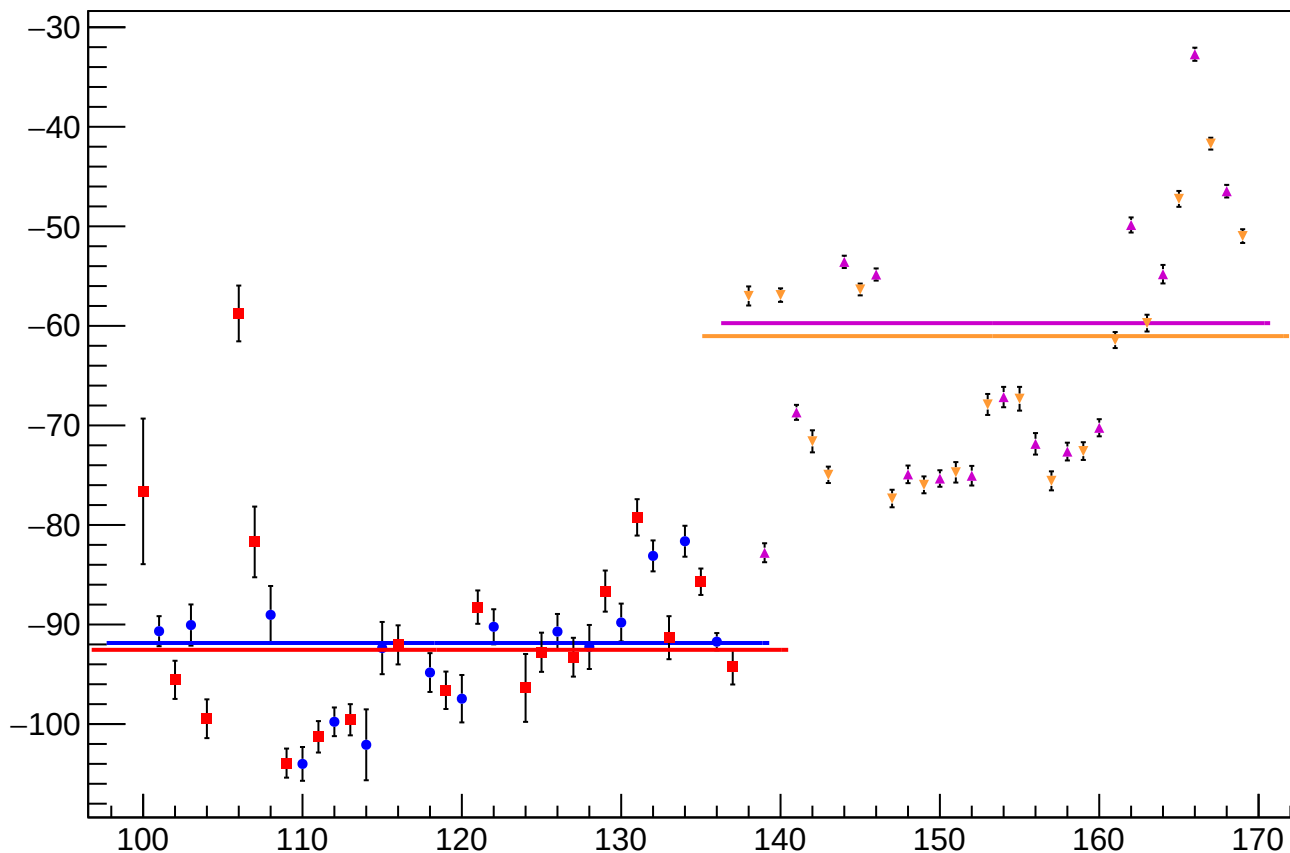
Right: -5.558 ± 0.287 χ^2/NDF : 715.0/34

In: -0.936 ± 0.138 χ^2/NDF : 1427.4/30

Out: -0.762 ± 0.134 χ^2/NDF : 1771.2/35

All: -0.847 ± 0.096 χ^2/NDF : 3199.5/66

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -91.856 ± 0.424 χ^2/NDF : 177.3/15

Left Out: -61.029 ± 0.198 χ^2/NDF : 3359.6/16

Right Out: -92.544 ± 0.439 χ^2/NDF : 387.8/18

Left In: -59.726 ± 0.204 χ^2/NDF : 4622.9/14

Left: -60.396 ± 0.142 χ^2/NDF : 8003.4/31

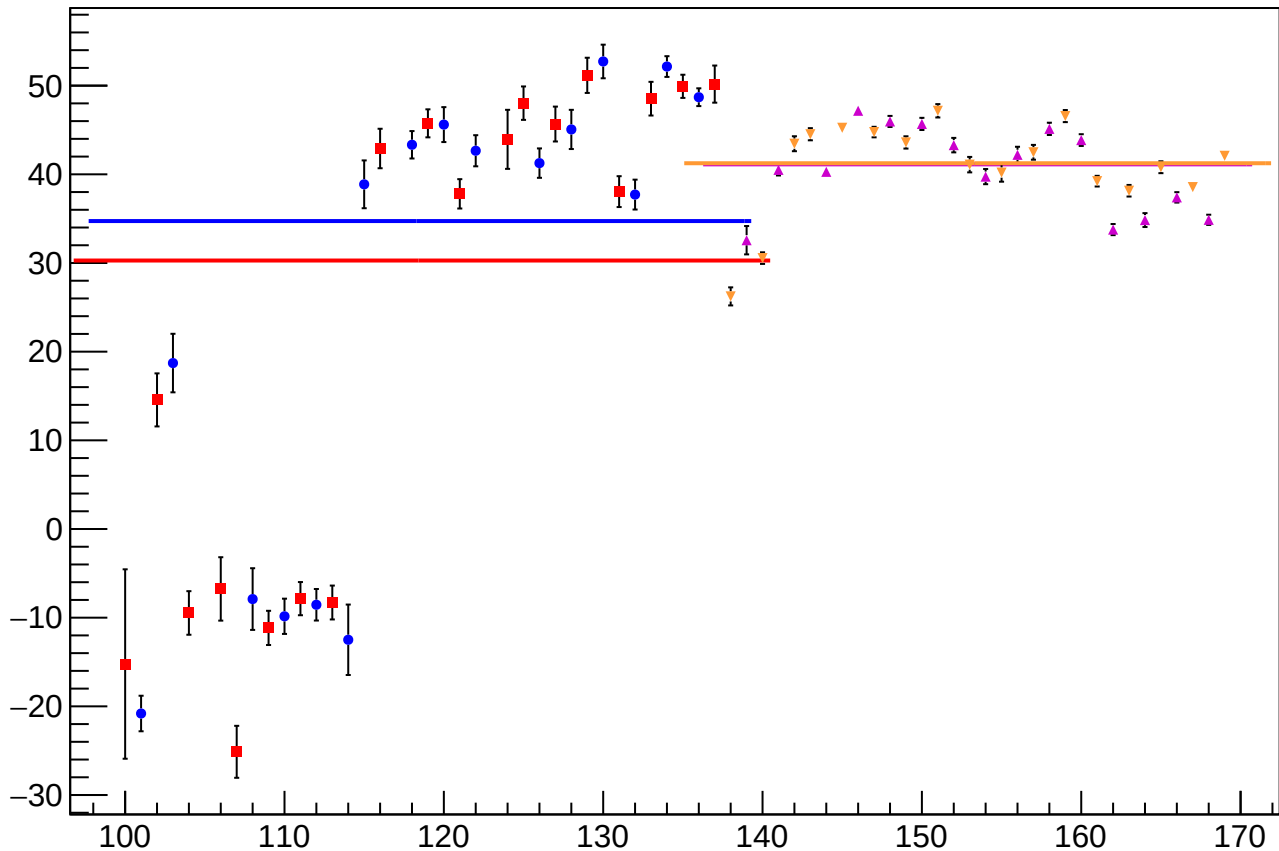
Right: -92.188 ± 0.305 χ^2/NDF : 566.3/34

In: -65.772 ± 0.184 χ^2/NDF : 9461.0/30

Out: -66.369 ± 0.181 χ^2/NDF : 8022.9/35

All: -66.076 ± 0.129 χ^2/NDF : 17489.3/66

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 34.729 $\pm$ 0.442 χ^2 /NDF: 2809.1/15

Left Out: 41.249 $\pm$ 0.163 χ^2 /NDF:804.2/16

Right Out: 30.279 $\pm$ 0.467 χ^2 /NDF: 2911.2/18

Left In: 41.123 $\pm$ 0.171 χ^2 /NDF:723.4/14

Left: 41.189 $\pm$ 0.118 χ^2 /NDF: 1527.9/31

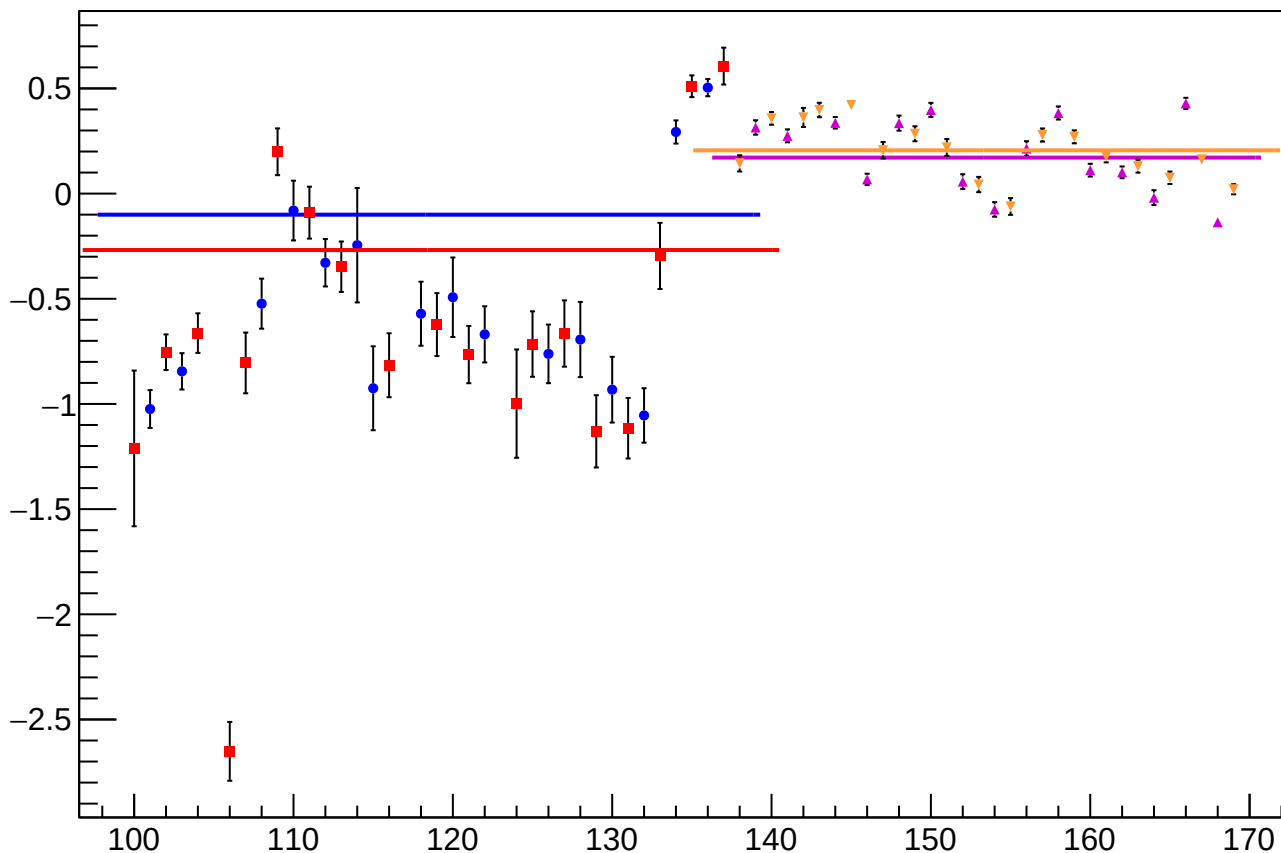
Right: 32.627 $\pm$ 0.321 χ^2 /NDF: 5768.2/34

In: 40.293 $\pm$ 0.159 χ^2 /NDF:3714.7/30

Out: 40.053 $\pm$ 0.154 χ^2 /NDF:4206.8/35

All: 40.169 $\pm$ 0.111 χ^2 /NDF: 7922.7/66

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.100 ± 0.024 χ^2/NDF : 631.4/15

Left Out: 0.206 ± 0.008 χ^2/NDF : 323.7/16

Right Out: -0.268 ± 0.026 χ^2/NDF : 822.4/18

Left In: 0.171 ± 0.008 χ^2/NDF : 590.9/14

Left: 0.189 ± 0.005 χ^2/NDF : 924.9/31

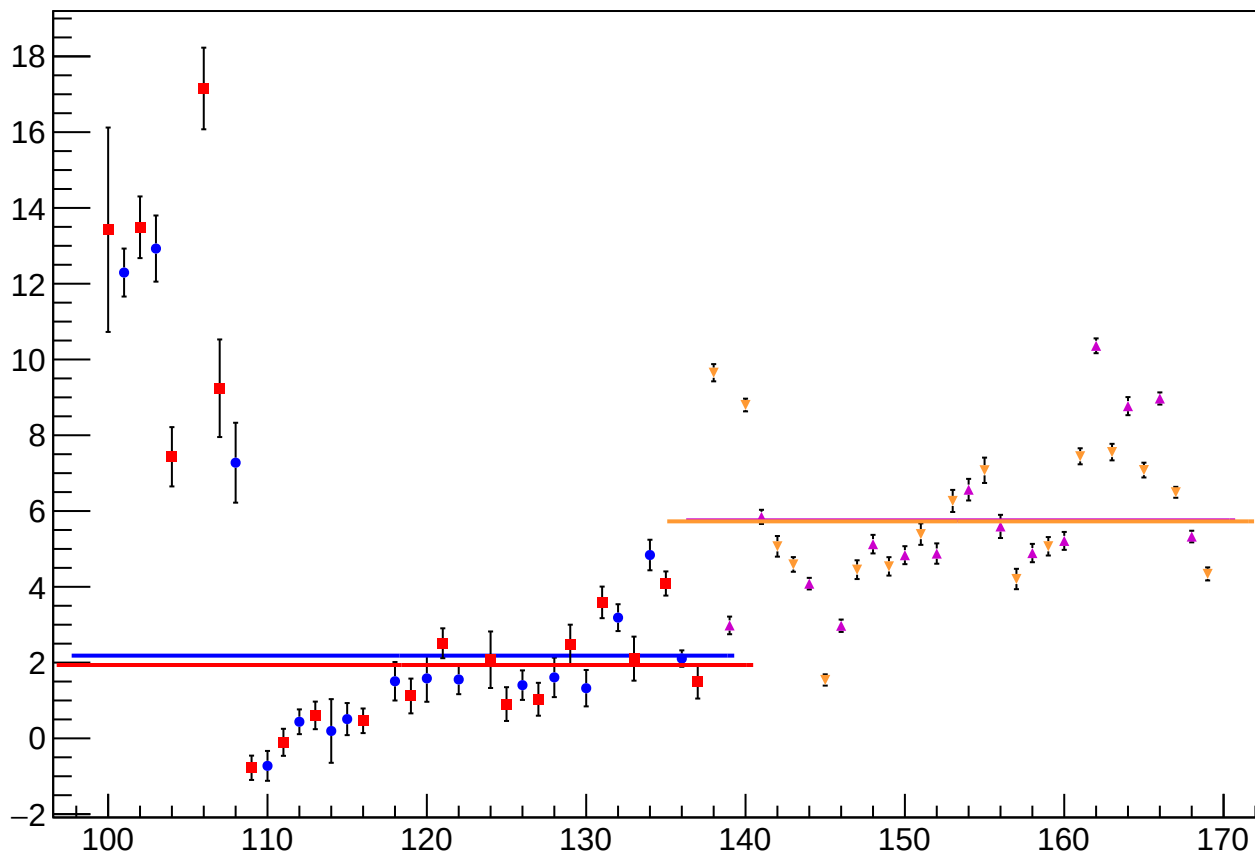
Right: -0.176 ± 0.018 χ^2/NDF : 1476.0/34

In: 0.145 ± 0.007 χ^2/NDF : 1337.8/30

Out: 0.170 ± 0.007 χ^2/NDF : 1445.5/35

All: 0.158 ± 0.005 χ^2/NDF : 2789.0/66

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 2.184 $\pm$ 0.105 χ^2/NDF : 599.3/15

Left Out: 5.727 $\pm$ 0.051 χ^2/NDF :1853.7/16

Right Out: 1.936 $\pm$ 0.105 χ^2/NDF : 717.1/18

Left In: 5.755 $\pm$ 0.053 χ^2/NDF :1732.6/14

Left: 5.740 $\pm$ 0.037 χ^2/NDF : 3586.4/31

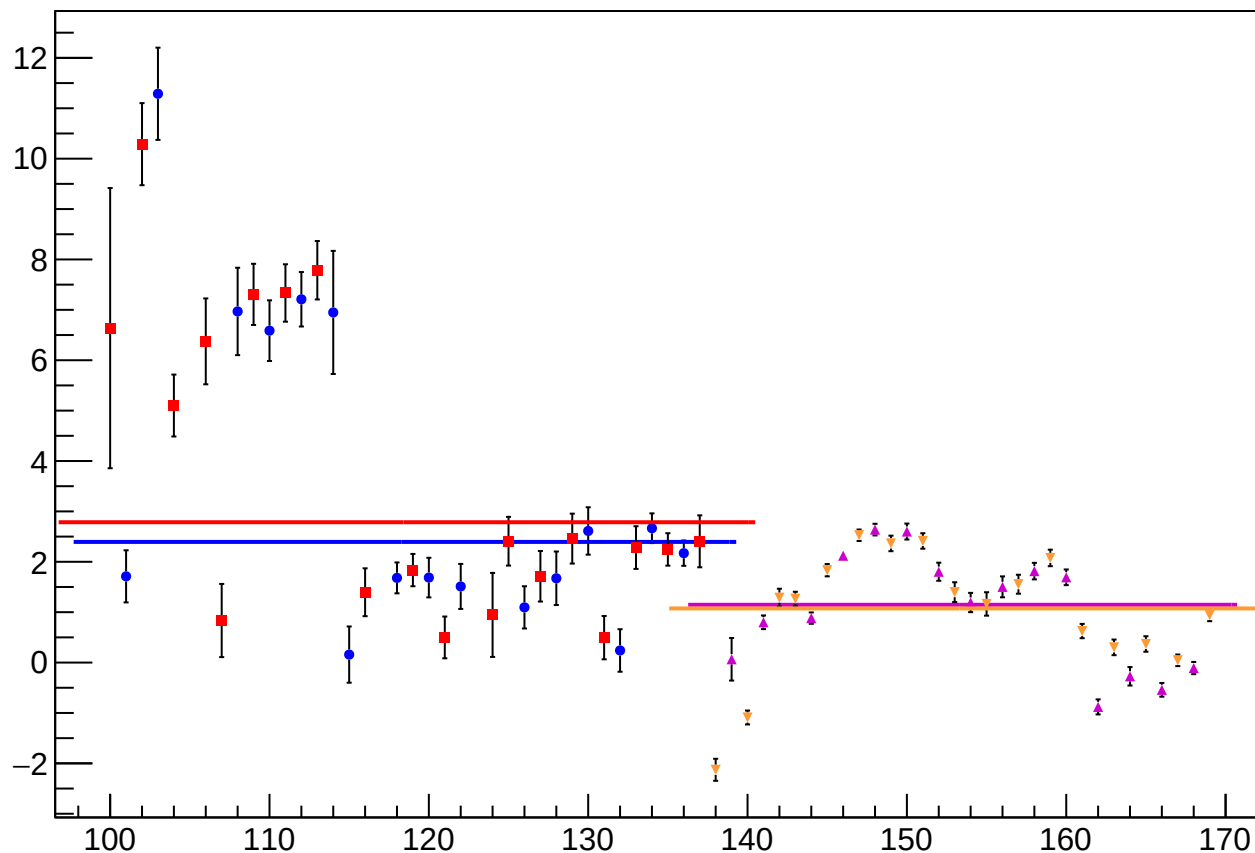
Right: 2.061 $\pm$ 0.074 χ^2/NDF : 1319.2/34

In: 5.034 $\pm$ 0.047 χ^2/NDF :3255.2/30

Out: 5.015 $\pm$ 0.046 χ^2/NDF :3620.0/35

All: 5.024 $\pm$ 0.033 χ^2/NDF : 6875.3/66

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.394 $\pm$ 0.108 χ^2 /NDF: 333.9/15

Left Out: 1.074 $\pm$ 0.036 χ^2 /NDF:995.0/16

Right Out: 2.785 $\pm$ 0.116 χ^2 /NDF: 410.9/18

Left In: 1.147 $\pm$ 0.037 χ^2 /NDF:923.5/14

Left: 1.109 $\pm$ 0.026 χ^2 /NDF: 1920.5/31

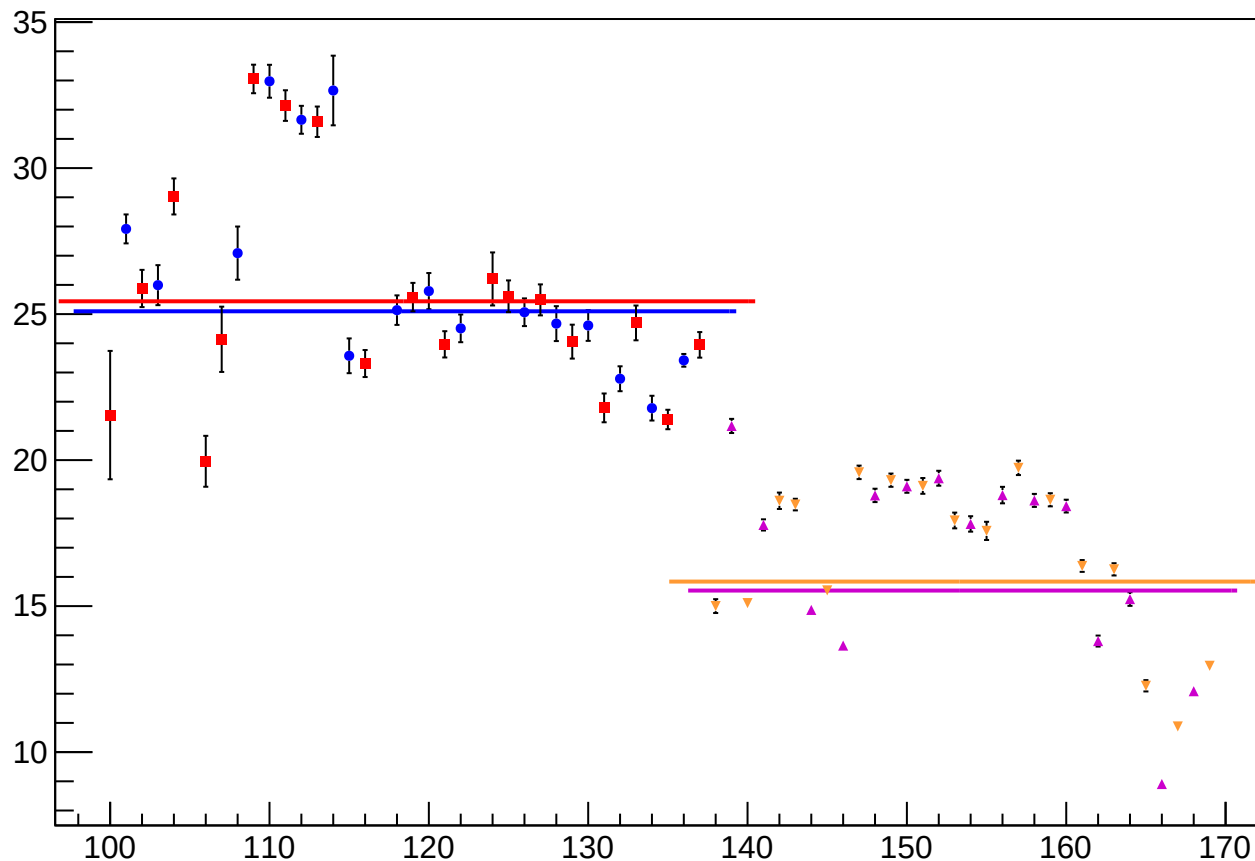
Right: 2.577 $\pm$ 0.079 χ^2 /NDF: 750.9/34

In: 1.279 $\pm$ 0.035 χ^2 /NDF:1376.1/30

Out: 1.224 $\pm$ 0.034 χ^2 /NDF:1604.7/35

All: 1.251 $\pm$ 0.025 χ^2 /NDF: 2982.0/66

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 25.096 $\pm$ 0.118 χ^2 /NDF: 622.9/15

Left Out: 15.840 $\pm$ 0.050 χ^2 /NDF: 3203.2/16

Right Out: 25.438 $\pm$ 0.124 χ^2 /NDF: 877.6/18

Left In: 15.533 $\pm$ 0.052 χ^2 /NDF: 4314.7/14

Left: 15.691 $\pm$ 0.036 χ^2 /NDF: 7536.1/31

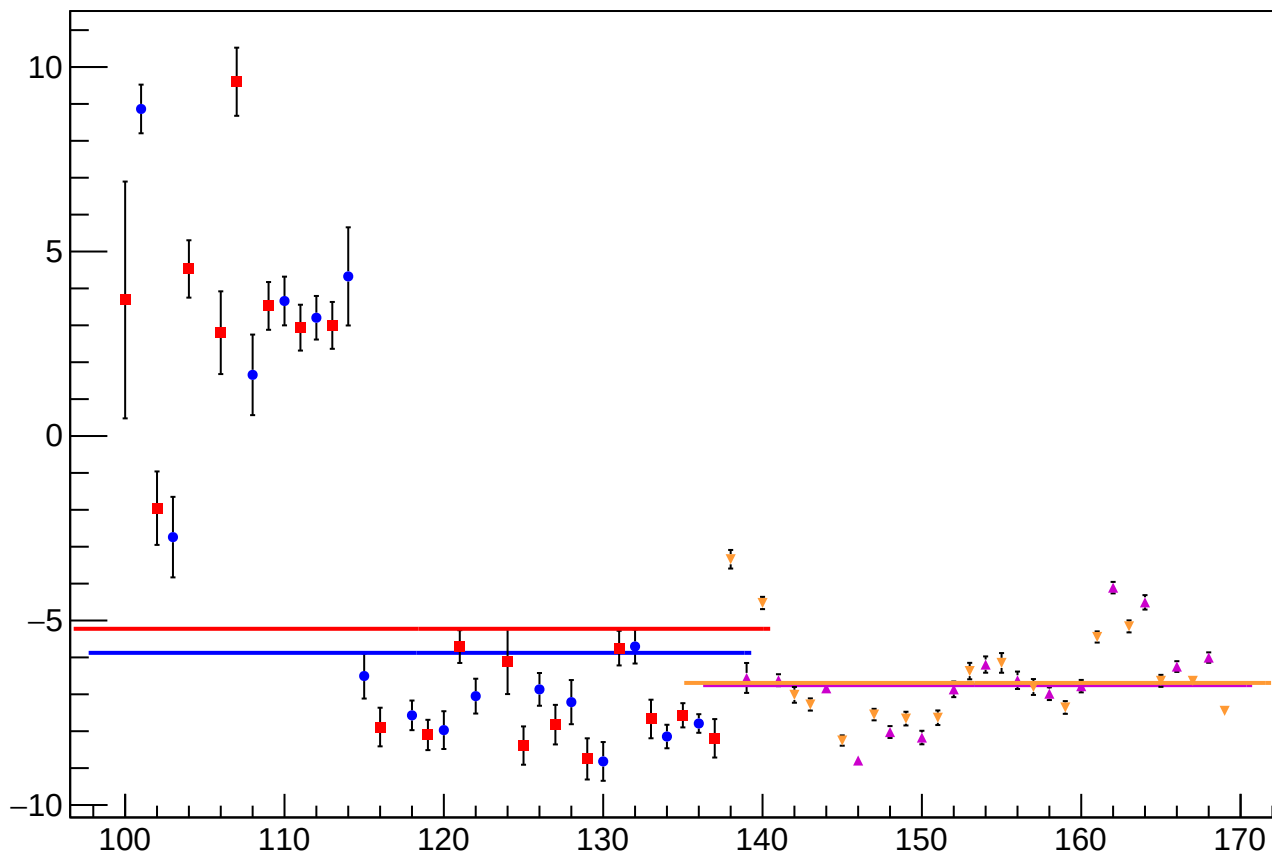
Right: 25.258 $\pm$ 0.085 χ^2 /NDF: 1504.5/34

In: 17.087 $\pm$ 0.047 χ^2 /NDF: 10481.9/30

Out: 17.190 $\pm$ 0.047 χ^2 /NDF: 9227.4/35

All: 17.140 $\pm$ 0.033 χ^2 /NDF: 19711.7/66

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -5.876 ± 0.121 χ^2/NDF : 1251.4/15

Left Out: -6.691 ± 0.041 χ^2/NDF : 775.5/16

Right Out: -5.225 ± 0.129 χ^2/NDF : 1292.0/18

Left In: -6.752 ± 0.043 χ^2/NDF : 882.7/14

Left: -6.720 ± 0.030 χ^2/NDF : 1659.2/31

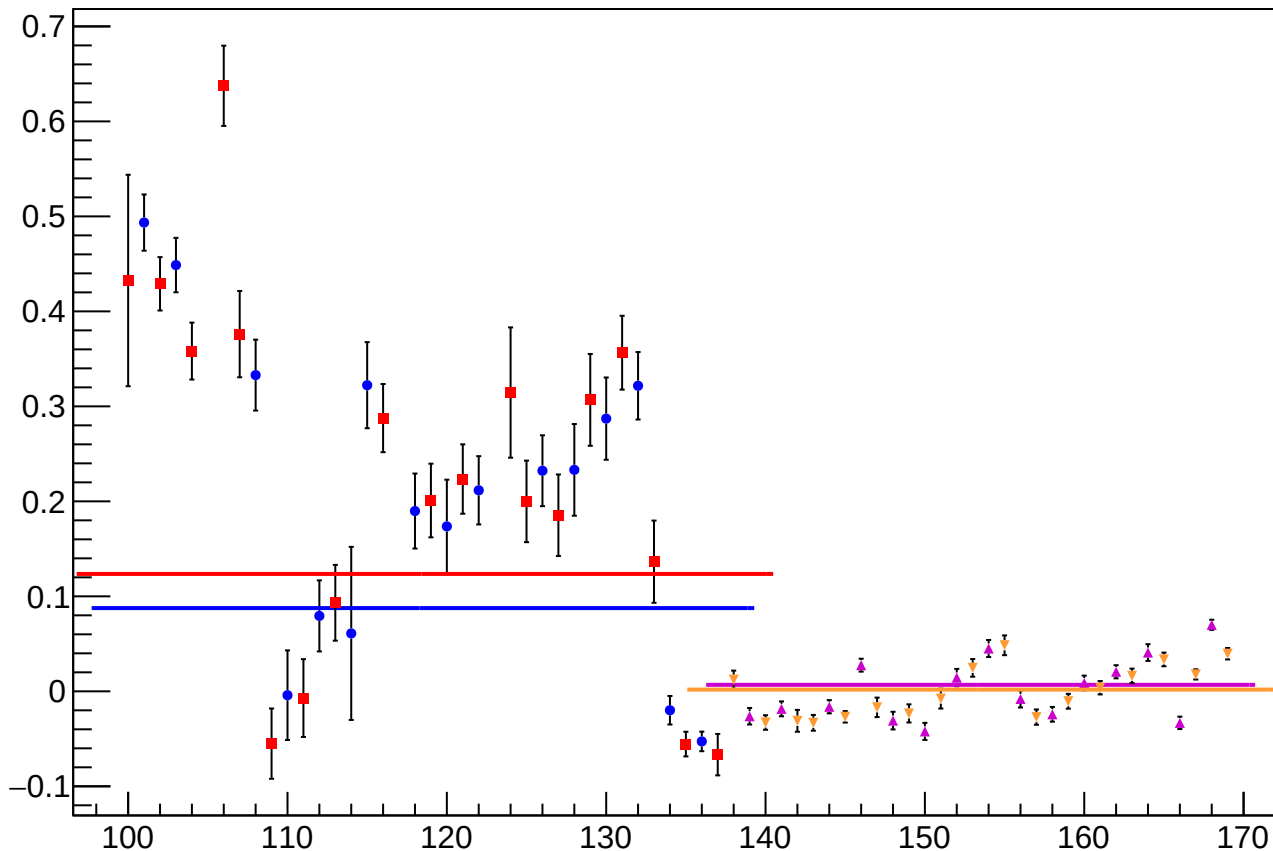
Right: -5.573 ± 0.088 χ^2/NDF : 2556.9/34

In: -6.652 ± 0.041 χ^2/NDF : 2180.8/30

Out: -6.556 ± 0.039 χ^2/NDF : 2184.0/35

All: -6.602 ± 0.028 χ^2/NDF : 4367.6/66

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 0.088 $\pm$ 0.007 χ^2 /NDF: 768.0/15

Left Out: 0.002 $\pm$ 0.002 χ^2 /NDF:193.6/16

Right Out: 0.124 $\pm$ 0.007 χ^2 /NDF: 762.3/18

Left In: 0.007 $\pm$ 0.002 χ^2 /NDF:325.3/14

Left: 0.004 $\pm$ 0.001 χ^2 /NDF: 522.3/31

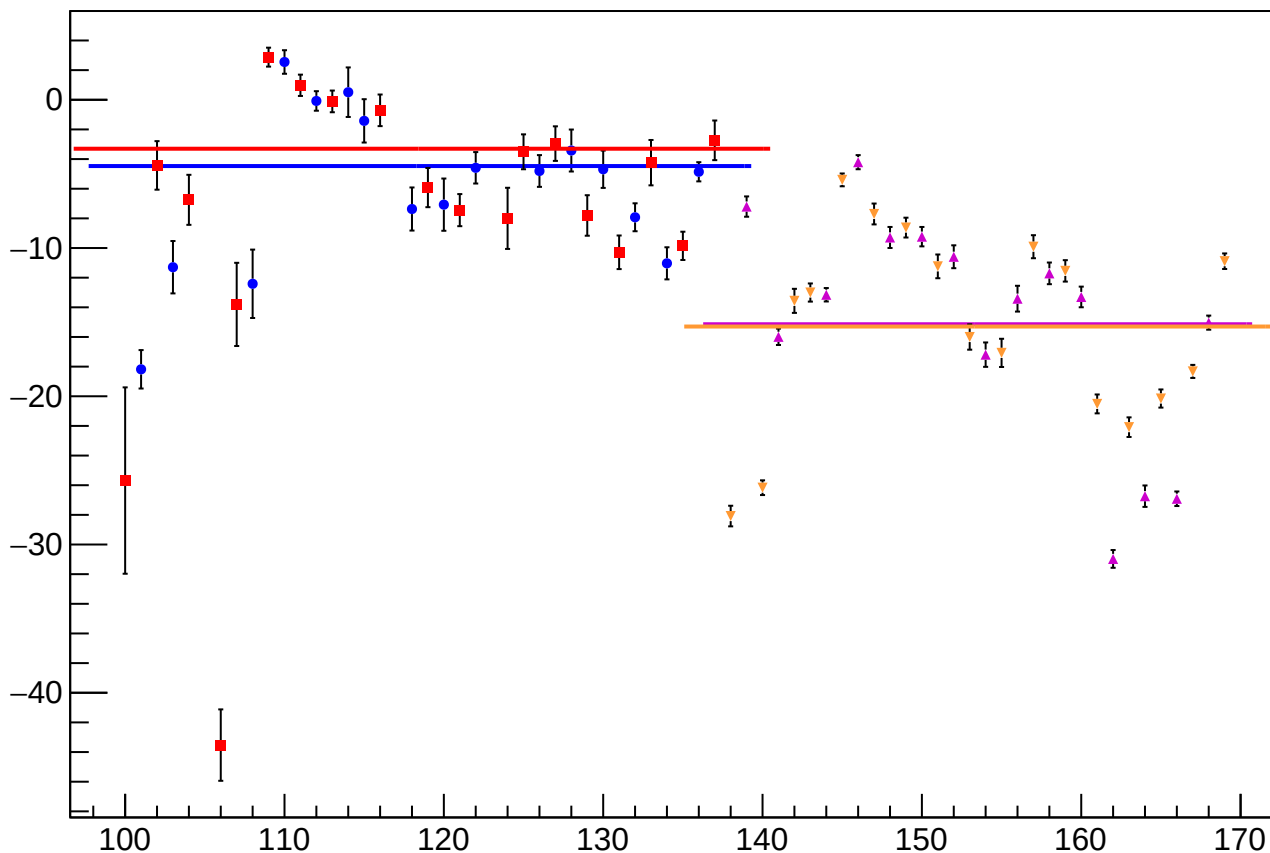
Right: 0.104 $\pm$ 0.005 χ^2 /NDF: 1543.6/34

In: 0.013 $\pm$ 0.002 χ^2 /NDF:1231.2/30

Out: 0.009 $\pm$ 0.002 χ^2 /NDF:1214.6/35

All: 0.011 $\pm$ 0.001 χ^2 /NDF: 2448.1/66

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.471 ± 0.268 χ^2/NDF : 331.8/15

Left Out: -15.296 ± 0.151 χ^2/NDF : 2033.8/16

Right Out: -3.302 ± 0.261 χ^2/NDF : 584.6/18

Left In: -15.142 ± 0.157 χ^2/NDF : 2436.2/14

Left: -15.222 ± 0.109 χ^2/NDF : 4470.6/31

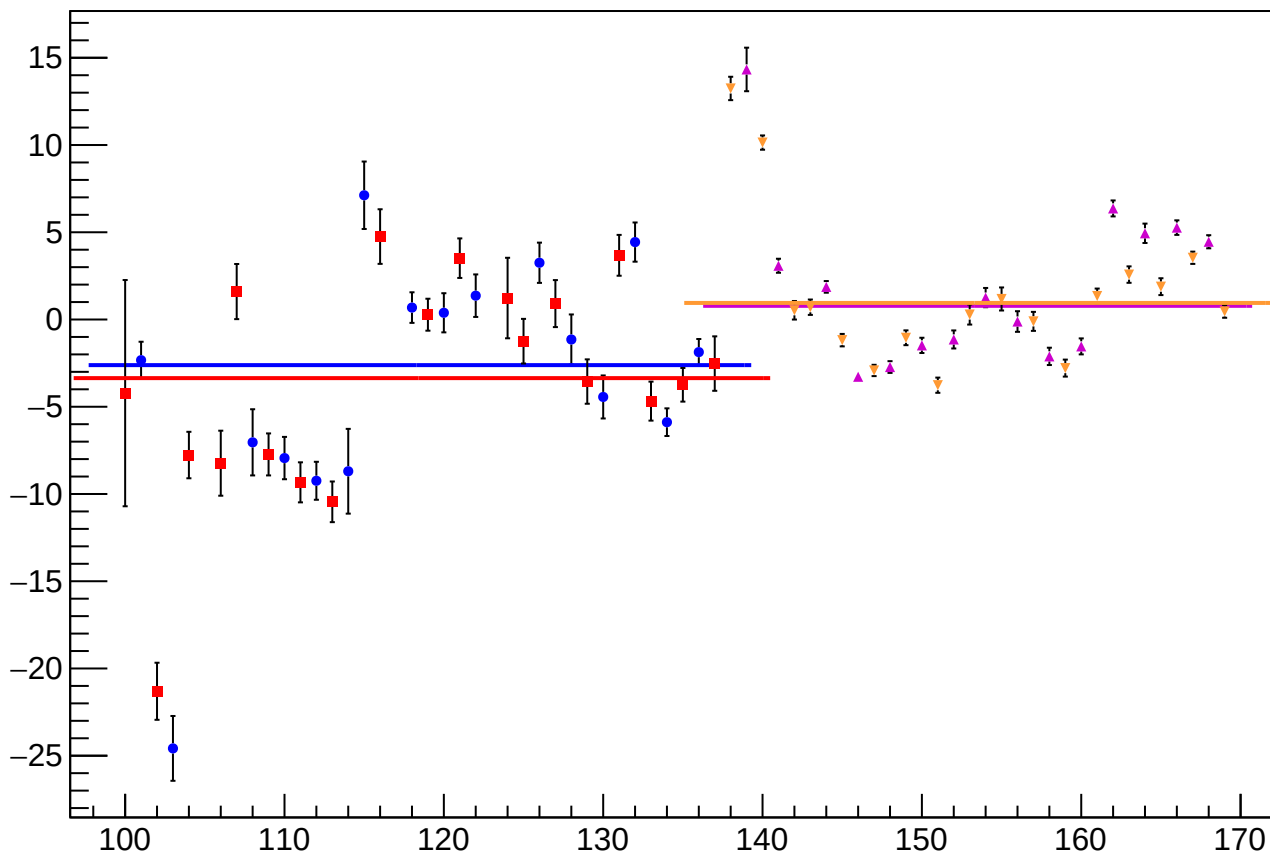
Right: -3.869 ± 0.187 χ^2/NDF : 926.1/34

In: -12.428 ± 0.135 χ^2/NDF : 3946.5/30

Out: -12.278 ± 0.131 χ^2/NDF : 4201.0/35

All: -12.350 ± 0.094 χ^2/NDF : 8148.1/66

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -2.615 ± 0.286 χ^2/NDF : 351.9/15

Left Out: 0.950 ± 0.107 χ^2/NDF : 1295.9/16

Right Out: -3.359 ± 0.299 χ^2/NDF : 359.6/18

Left In: 0.784 ± 0.111 χ^2/NDF : 994.8/14

Left: 0.870 ± 0.077 χ^2/NDF : 2291.9/31

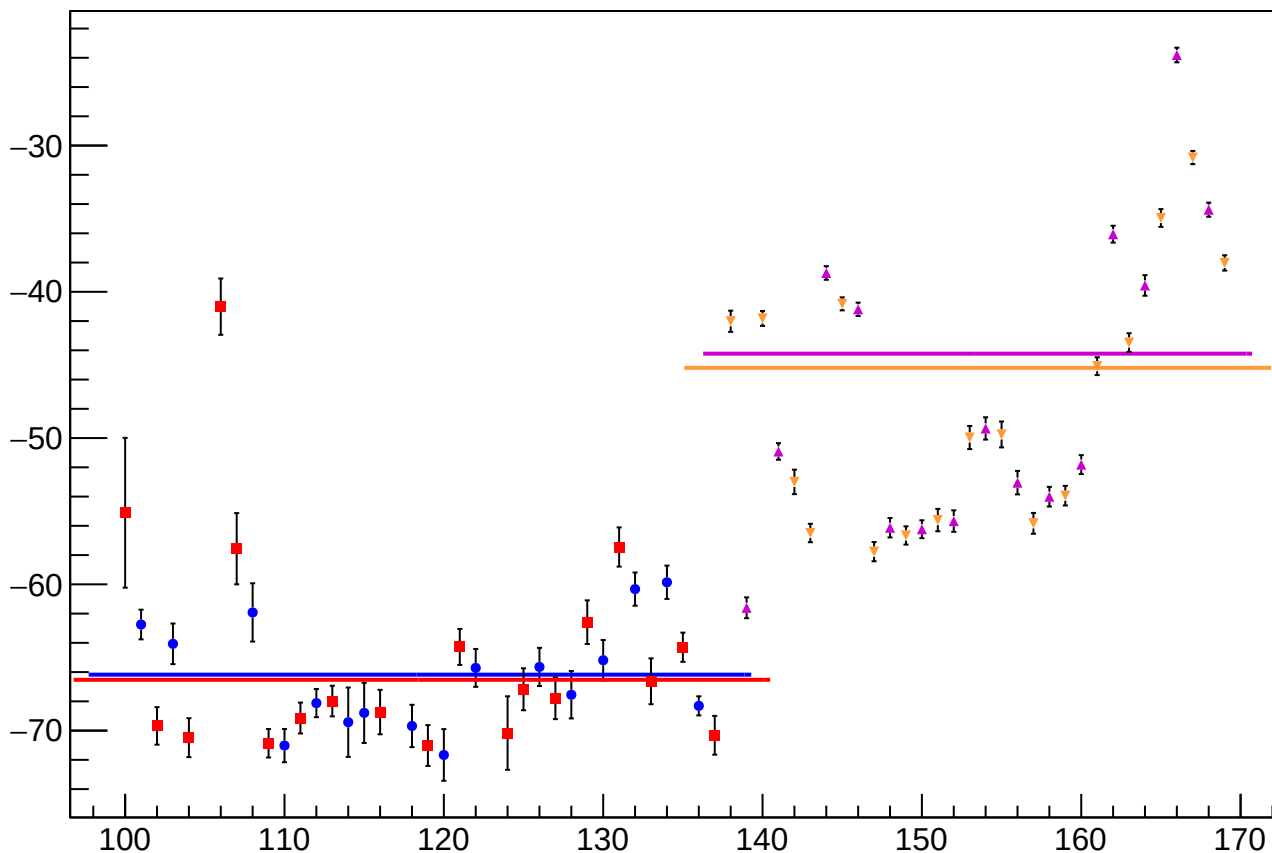
Right: -2.970 ± 0.206 χ^2/NDF : 714.8/34

In: 0.342 ± 0.103 χ^2/NDF : 1469.8/30

Out: 0.463 ± 0.100 χ^2/NDF : 1840.1/35

All: 0.404 ± 0.072 χ^2/NDF : 3310.6/66

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected

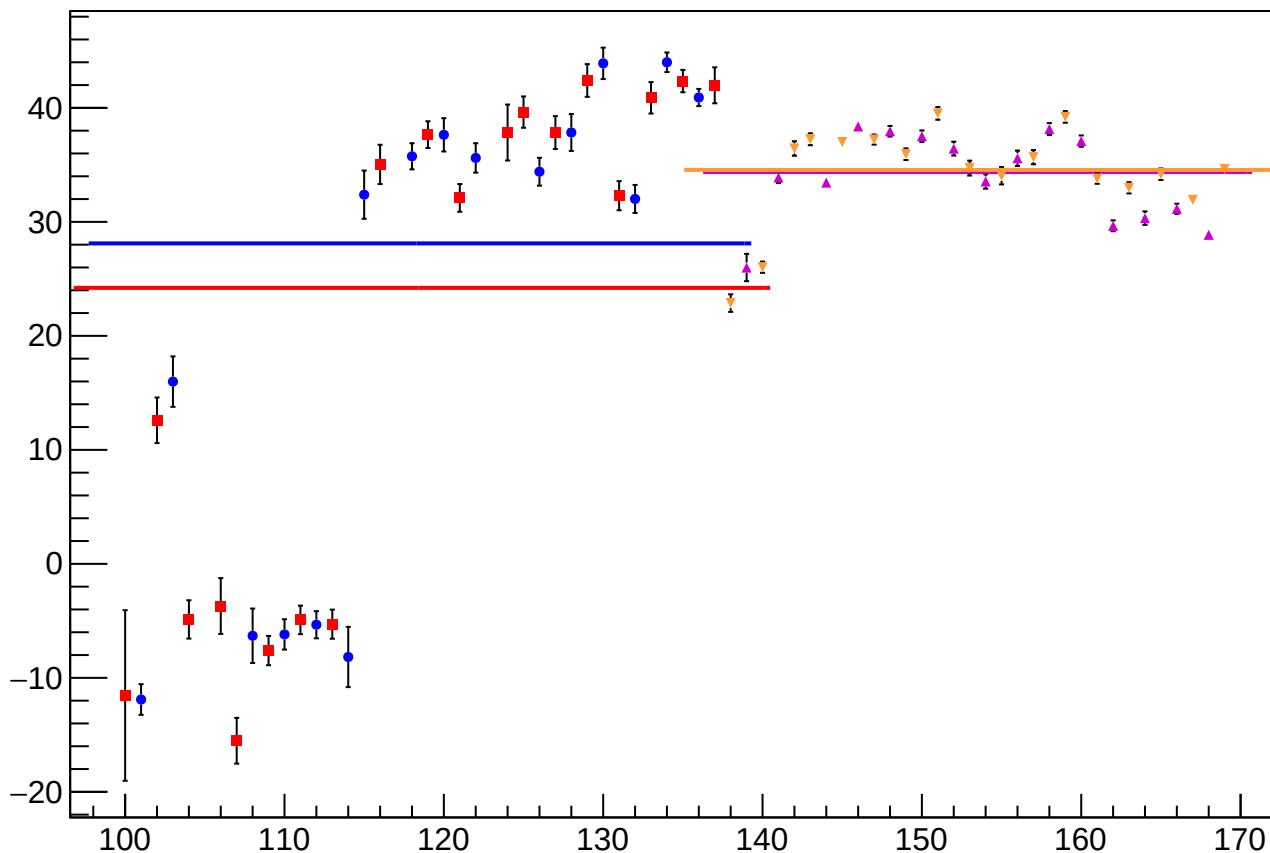


Right In: -66.176 $\pm$ 0.304 χ^2 /NDF: 129.2/15
 Left Out: -45.198 $\pm$ 0.149 χ^2 /NDF:3403.6/16
 Right Out: -66.526 $\pm$ 0.312 χ^2 /NDF: 321.7/18
 Left In: -44.228 $\pm$ 0.154 χ^2 /NDF:4703.6/14

Left: -44.727 $\pm$ 0.107 χ^2 /NDF: 8127.7/31
 Right: -66.346 $\pm$ 0.218 χ^2 /NDF: 451.5/34
 In: -48.683 $\pm$ 0.137 χ^2 /NDF:8978.3/30
 Out: -49.164 $\pm$ 0.135 χ^2 /NDF:7517.9/35

All: -48.928 $\pm$ 0.096 χ^2 /NDF: 16502.5/66

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 28.112 $\pm$ 0.320 χ^2 /NDF: 3727.7/15

Left Out: 34.558 $\pm$ 0.123 χ^2 /NDF: 868.6/16

Right Out: 24.212 $\pm$ 0.336 χ^2 /NDF: 3841.7/18

Left In: 34.372 $\pm$ 0.128 χ^2 /NDF: 734.1/14

Left: 34.469 $\pm$ 0.089 χ^2 /NDF: 1603.7/31

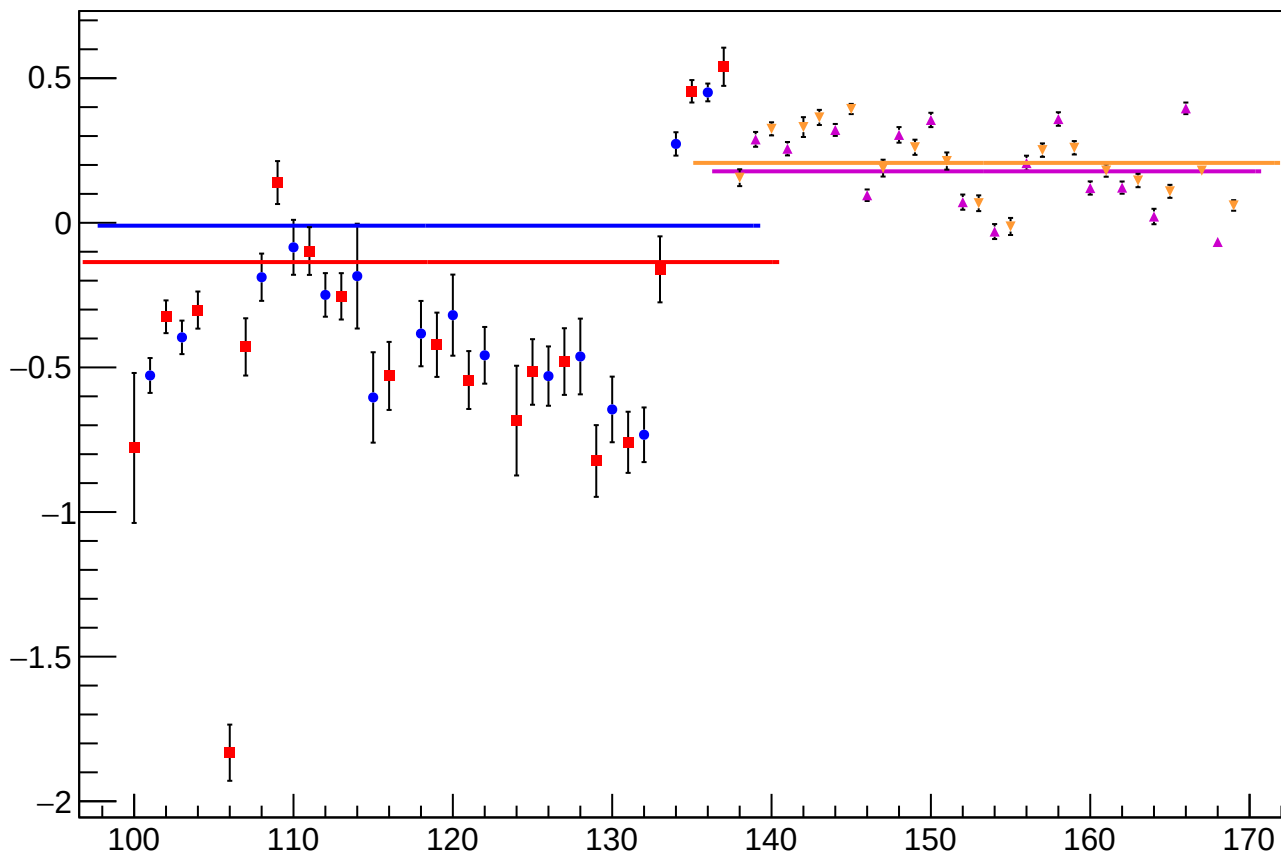
Right: 26.255 $\pm$ 0.232 χ^2 /NDF: 7640.1/34

In: 33.503 $\pm$ 0.119 χ^2 /NDF: 4791.4/30

Out: 33.331 $\pm$ 0.116 χ^2 /NDF: 5548.0/35

All: 33.414 $\pm$ 0.083 χ^2 /NDF: 10340.4/66

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.010 ± 0.017 χ^2/NDF : 587.4/15

Left Out: 0.207 ± 0.006 χ^2/NDF : 380.5/16

Right Out: -0.136 ± 0.019 χ^2/NDF : 818.5/18

Left In: 0.178 ± 0.006 χ^2/NDF : 695.6/14

Left: 0.193 ± 0.004 χ^2/NDF : 1088.9/31

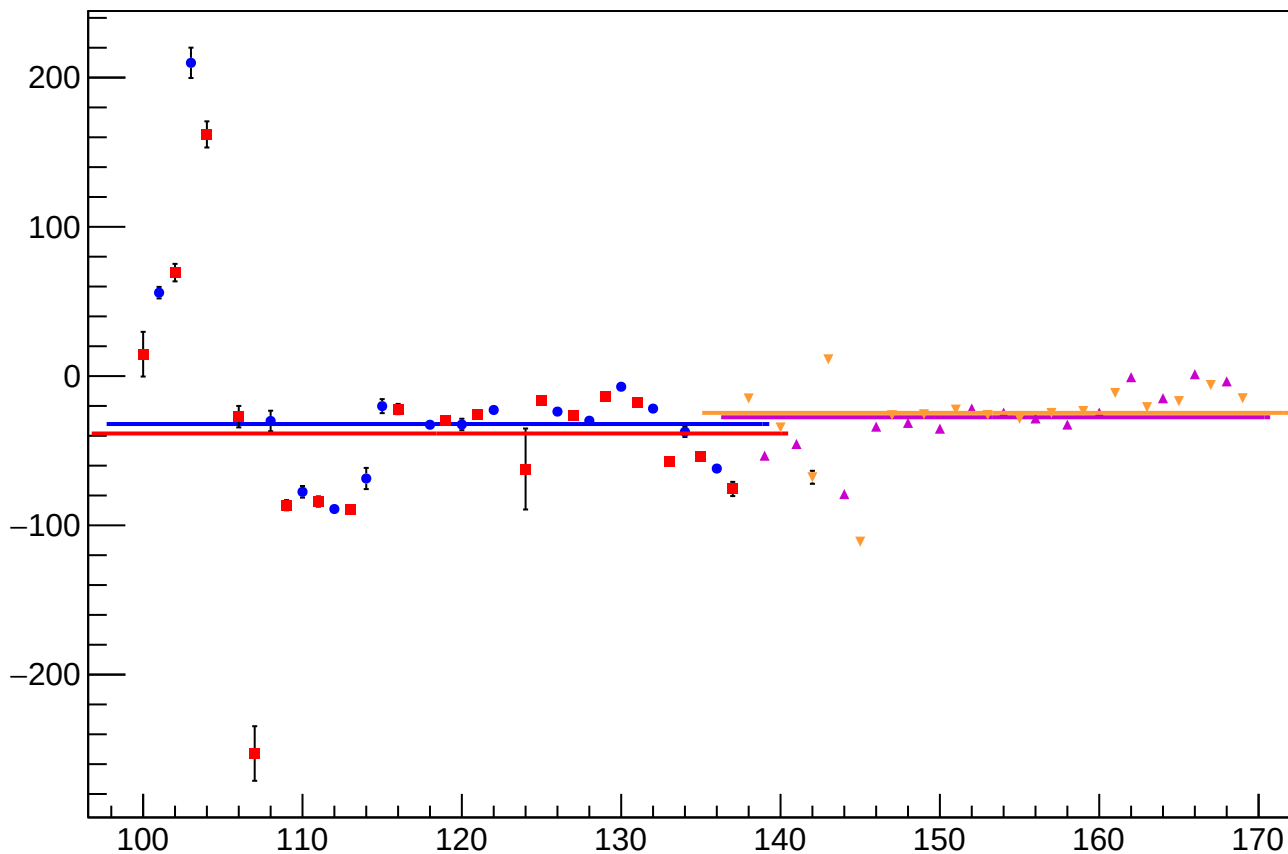
Right: -0.068 ± 0.013 χ^2/NDF : 1430.0/34

In: 0.159 ± 0.006 χ^2/NDF : 1388.5/30

Out: 0.179 ± 0.005 χ^2/NDF : 1503.3/35

All: 0.169 ± 0.004 χ^2/NDF : 2898.6/66

reg_asym_atl1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -32.117 ± 0.843 $\chi^2/\text{NDF}: 1877.5/15$

Left Out: -24.632 ± 0.696 $\chi^2/\text{NDF}: 1077.5/16$

Right Out: -38.462 ± 0.864 $\chi^2/\text{NDF}: 1972.5/18$

Left In: -27.602 ± 0.720 $\chi^2/\text{NDF}: 811.1/14$

Left: -26.066 ± 0.501 $\chi^2/\text{NDF}: 1897.4/31$

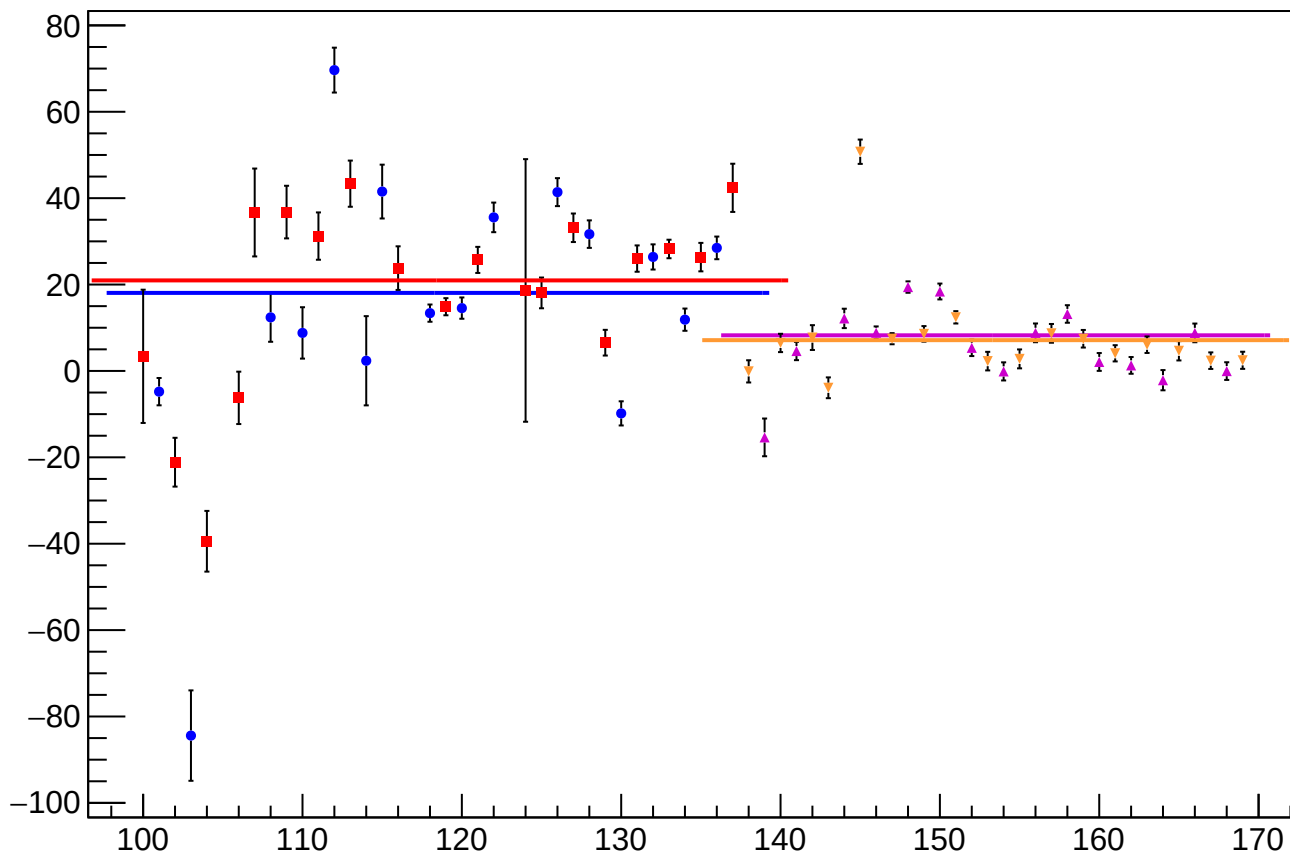
Right: -35.208 ± 0.603 $\chi^2/\text{NDF}: 3877.6/34$

In: -29.508 ± 0.548 $\chi^2/\text{NDF}: 2705.2/30$

Out: -30.071 ± 0.542 $\chi^2/\text{NDF}: 3205.3/35$

All: -29.793 ± 0.385 $\chi^2/\text{NDF}: 5911.0/66$

reg_asym_atl1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 18.068 ± 0.823 $\chi^2/\text{NDF}: 499.6/15$

Left Out: 7.126 ± 0.479 $\chi^2/\text{NDF}: 308.8/16$

Right Out: 20.959 ± 0.868 $\chi^2/\text{NDF}: 262.6/18$

Left In: 8.248 ± 0.506 $\chi^2/\text{NDF}: 219.8/14$

Left: 7.657 ± 0.348 $\chi^2/\text{NDF}: 531.3/31$

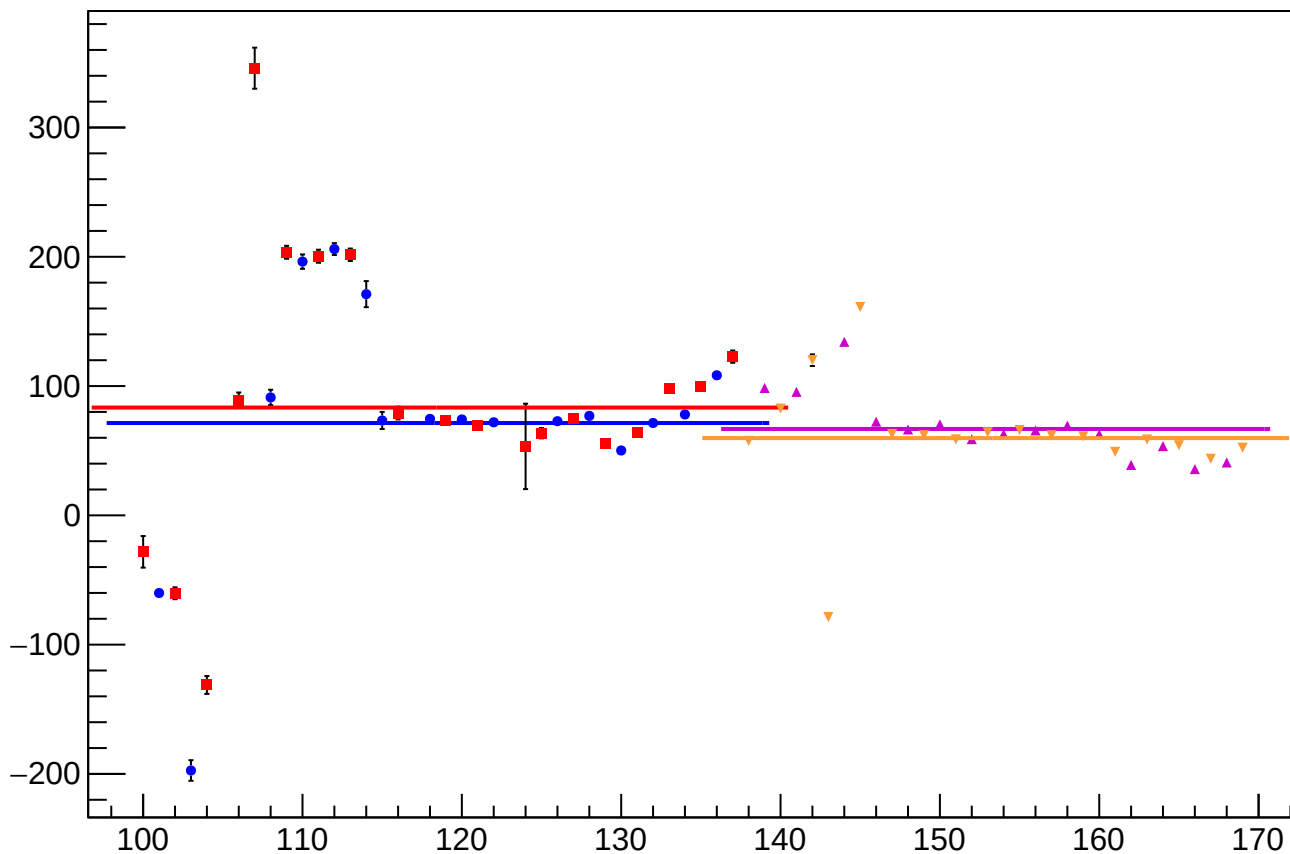
Right: 19.435 ± 0.597 $\chi^2/\text{NDF}: 768.0/34$

In: 10.941 ± 0.431 $\chi^2/\text{NDF}: 822.8/30$

Out: 10.355 ± 0.420 $\chi^2/\text{NDF}: 766.0/35$

All: 10.641 ± 0.301 $\chi^2/\text{NDF}: 1589.7/66$

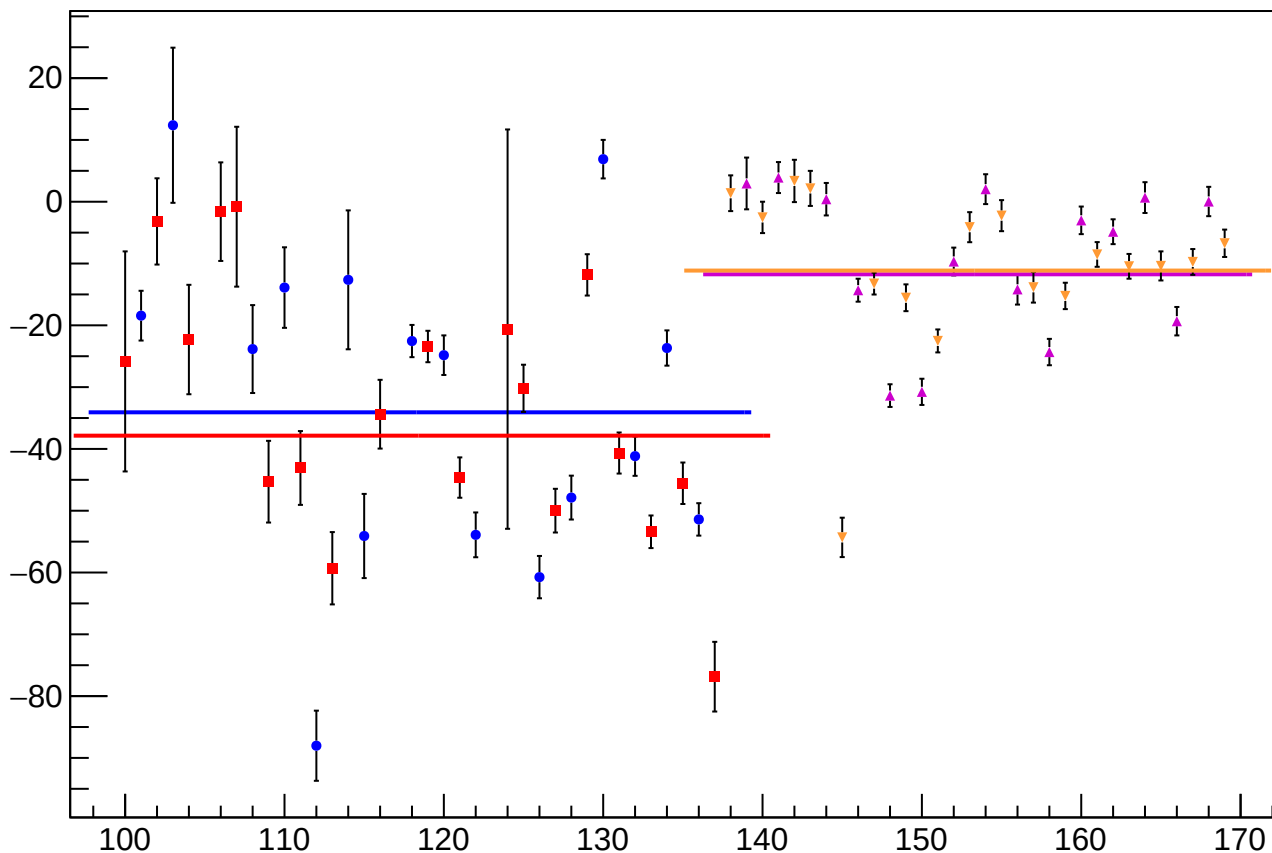
reg_asym_atl1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 71.421 ± 0.931 $\chi^2/\text{NDF}: 4819.6/15$
 Left Out: 59.741 ± 0.679 $\chi^2/\text{NDF}: 2971.9/16$
 Right Out: 83.385 ± 0.985 $\chi^2/\text{NDF}: 4297.3/18$
 Left In: 66.824 ± 0.699 $\chi^2/\text{NDF}: 1132.6/14$

Left: 63.178 ± 0.487 $\chi^2/\text{NDF}: 4157.3/31$
 Right: 77.066 ± 0.677 $\chi^2/\text{NDF}: 9194.8/34$
 In: 68.482 ± 0.559 $\chi^2/\text{NDF}: 5967.7/30$
 Out: 67.355 ± 0.559 $\chi^2/\text{NDF}: 7659.8/35$
 All: 67.918 ± 0.395 $\chi^2/\text{NDF}: 13629.5/66$

reg_asym_atl1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.077 ± 0.942 $\chi^2/\text{NDF}: 511.2/15$

Left Out: -11.139 ± 0.557 $\chi^2/\text{NDF}: 328.8/16$

Right Out: -37.855 ± 0.994 $\chi^2/\text{NDF}: 274.6/18$

Left In: -11.743 ± 0.587 $\chi^2/\text{NDF}: 425.8/14$

Left: -11.425 ± 0.404 $\chi^2/\text{NDF}: 755.2/31$

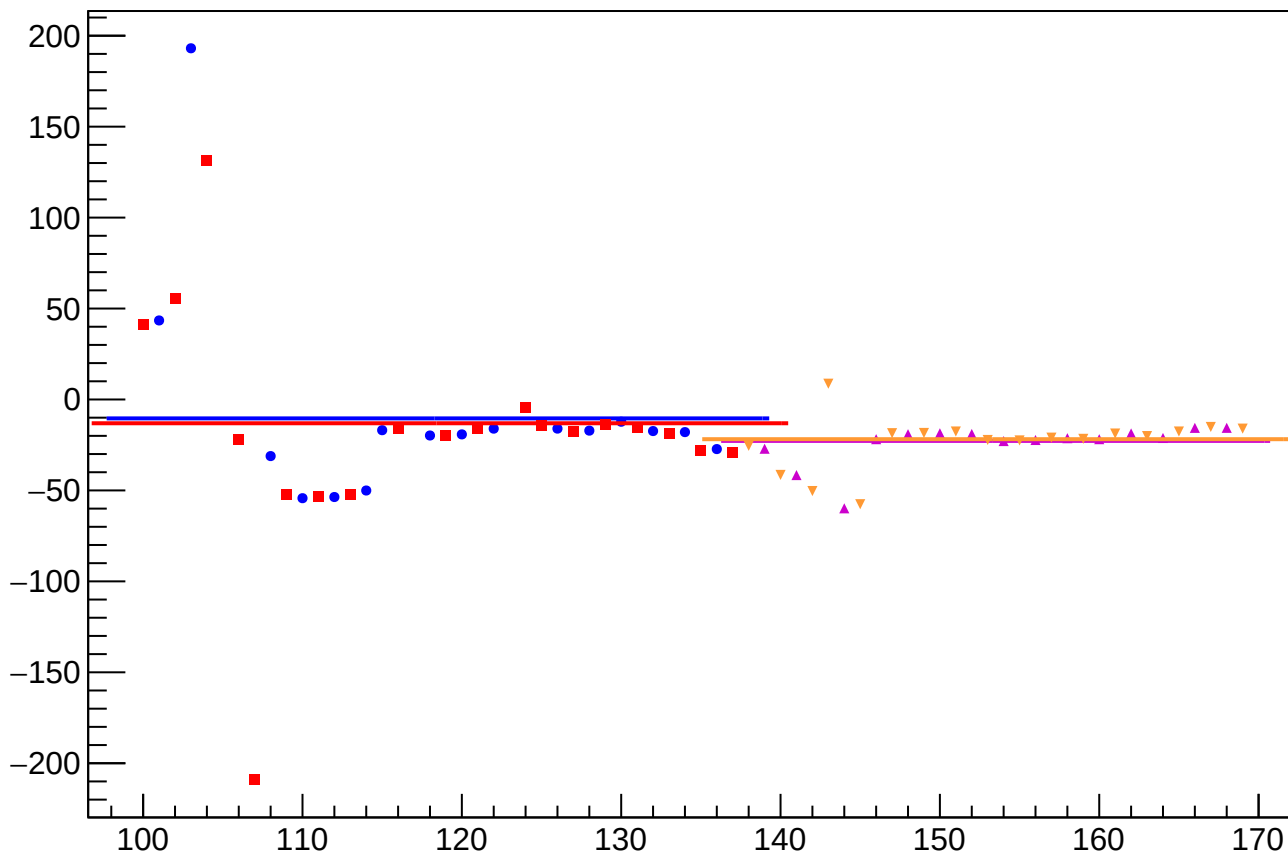
Right: -35.865 ± 0.684 $\chi^2/\text{NDF}: 793.4/34$

In: -17.993 ± 0.498 $\chi^2/\text{NDF}: 1341.7/30$

Out: -17.518 ± 0.486 $\chi^2/\text{NDF}: 1153.5/35$

All: -17.749 ± 0.348 $\chi^2/\text{NDF}: 2495.7/66$

reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -10.400 ± 0.057 $\chi^2/\text{NDF}: 522334.6/15$

Left Out: -21.835 ± 0.025 $\chi^2/\text{NDF}: 194587.0/16$

Right Out: -13.074 ± 0.063 $\chi^2/\text{NDF}: 449609.3/18$

Left In: -22.761 ± 0.026 $\chi^2/\text{NDF}: 114926.8/14$

Left: -22.286 ± 0.018 $\chi^2/\text{NDF}: 310159.0/31$

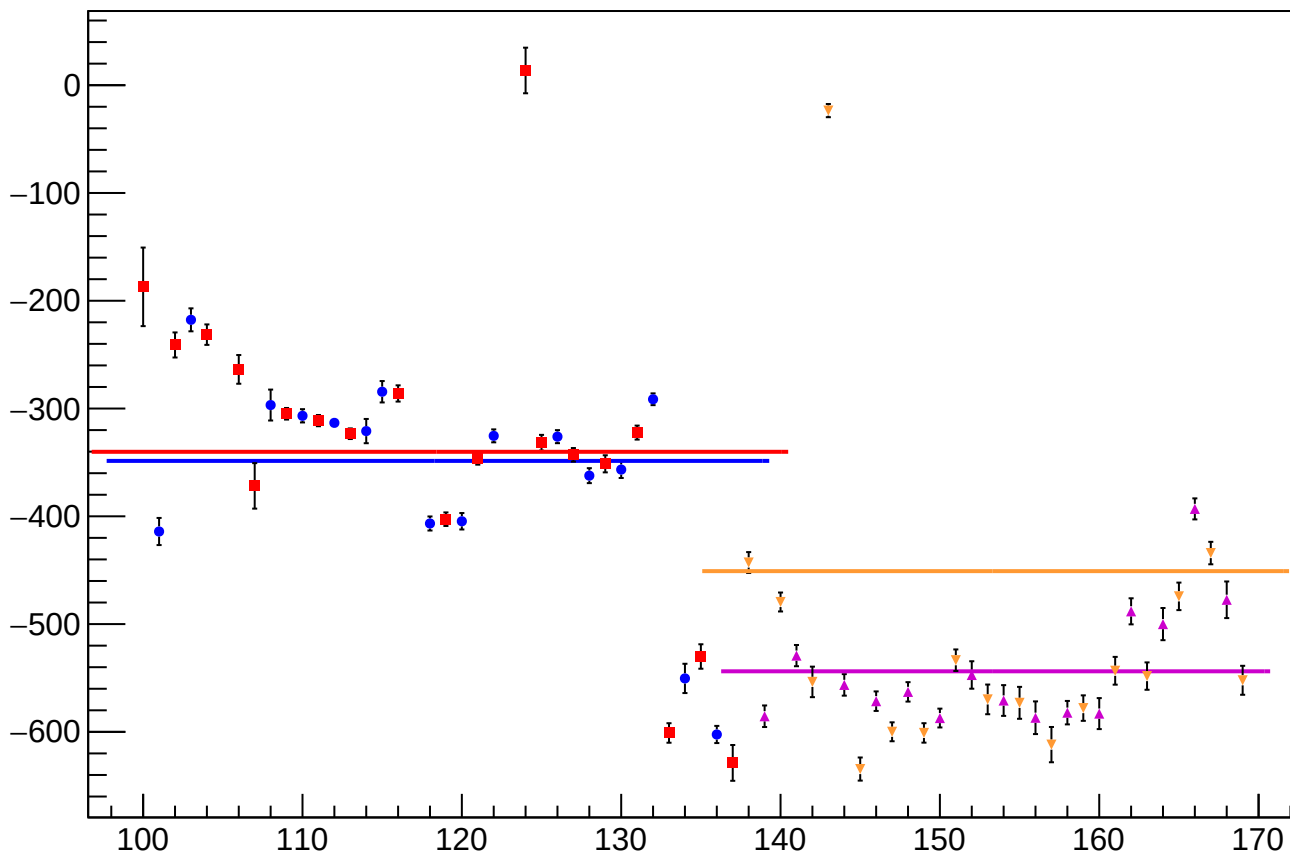
Right: -11.607 ± 0.042 $\chi^2/\text{NDF}: 972944.0/34$

In: -20.606 ± 0.024 $\chi^2/\text{NDF}: 676338.2/30$

Out: -20.594 ± 0.024 $\chi^2/\text{NDF}: 660998.5/35$

All: -20.600 ± 0.017 $\chi^2/\text{NDF}: 1337336.8/66$

reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -348.586 ± 1.825 $\chi^2/\text{NDF}: 1858.3/15$

Left Out: -450.868 ± 2.556 $\chi^2/\text{NDF}: 6391.2/16$

Right Out: -340.144 ± 1.759 $\chi^2/\text{NDF}: 2197.1/18$

Left In: -543.811 ± 2.864 $\chi^2/\text{NDF}: 374.8/14$

Left: -492.077 ± 1.907 $\chi^2/\text{NDF}: 7352.2/31$

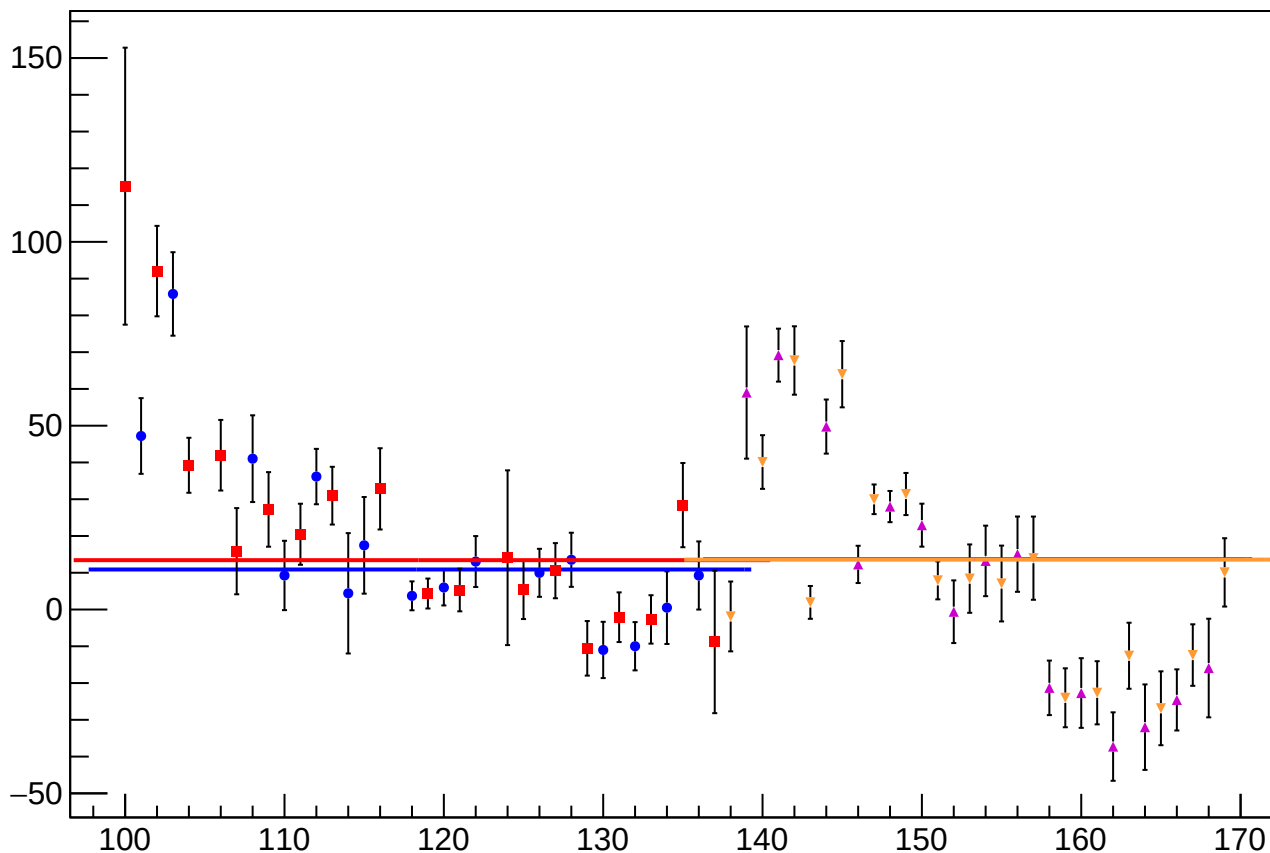
Right: -344.211 ± 1.267 $\chi^2/\text{NDF}: 4066.5/34$

In: -404.951 ± 1.539 $\chi^2/\text{NDF}: 5538.2/30$

Out: -375.739 ± 1.449 $\chi^2/\text{NDF}: 9861.5/35$

All: -389.470 ± 1.055 $\chi^2/\text{NDF}: 15590.7/66$

reg_asym_atl2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.888 ± 1.843 $\chi^2/\text{NDF}: 98.2/15$

Left Out: 13.576 ± 1.716 $\chi^2/\text{NDF}: 190.2/16$

Right Out: 13.427 ± 1.854 $\chi^2/\text{NDF}: 112.4/18$

Left In: 13.736 ± 1.935 $\chi^2/\text{NDF}: 215.1/14$

Left: 13.646 ± 1.284 $\chi^2/\text{NDF}: 405.3/31$

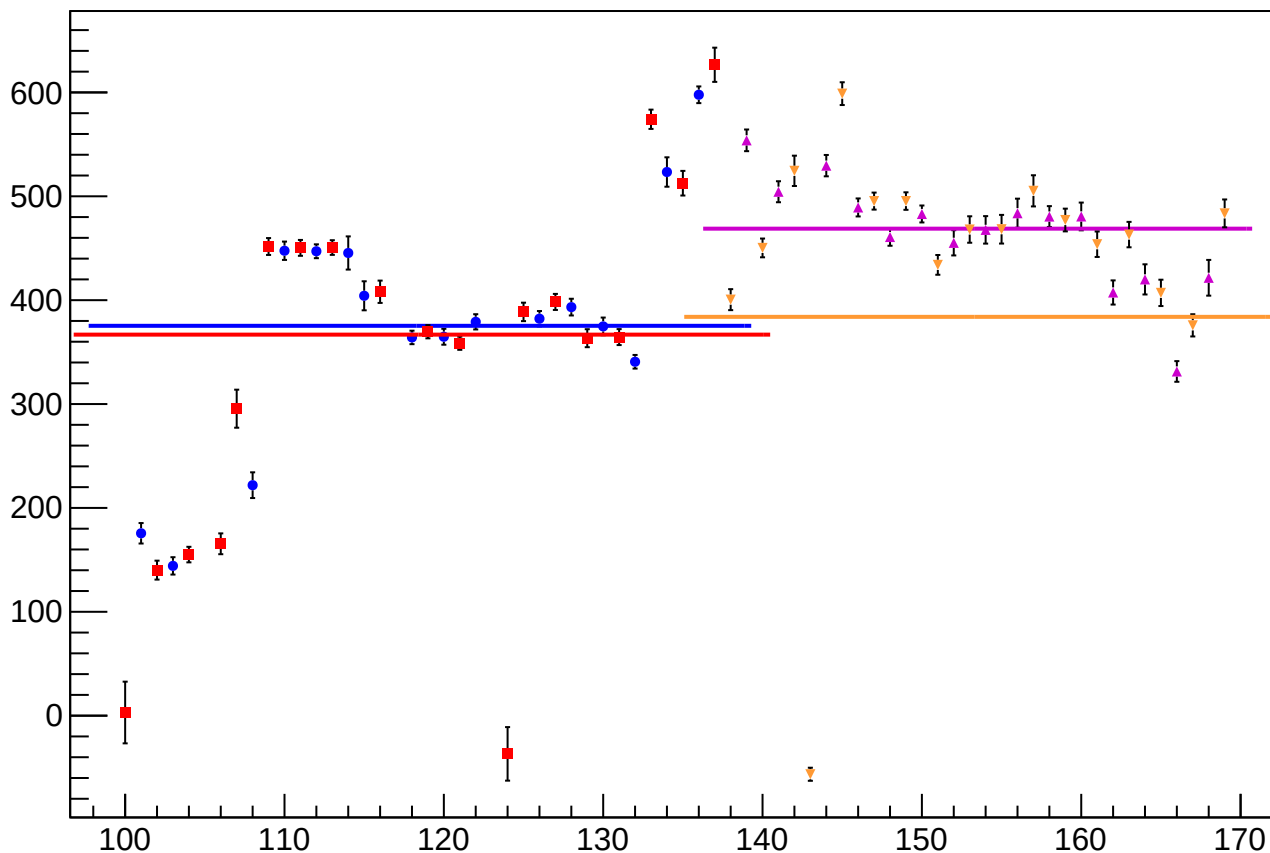
Right: 12.149 ± 1.307 $\chi^2/\text{NDF}: 211.6/34$

In: 12.242 ± 1.334 $\chi^2/\text{NDF}: 314.5/30$

Out: 13.507 ± 1.260 $\chi^2/\text{NDF}: 302.6/35$

All: 12.911 ± 0.916 $\chi^2/\text{NDF}: 617.6/66$

reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 375.321+/-2.103 χ^2/NDF : 2449.5/15

Left Out: 383.948+/-2.512 χ^2/NDF : 6164.8/16

Right Out: 366.830+/-2.049 χ^2/NDF : 3541.1/18

Left In: 468.842+/-2.778 χ^2/NDF : 365.2/14

Left: 422.141+/-1.863 χ^2/NDF : 7043.7/31

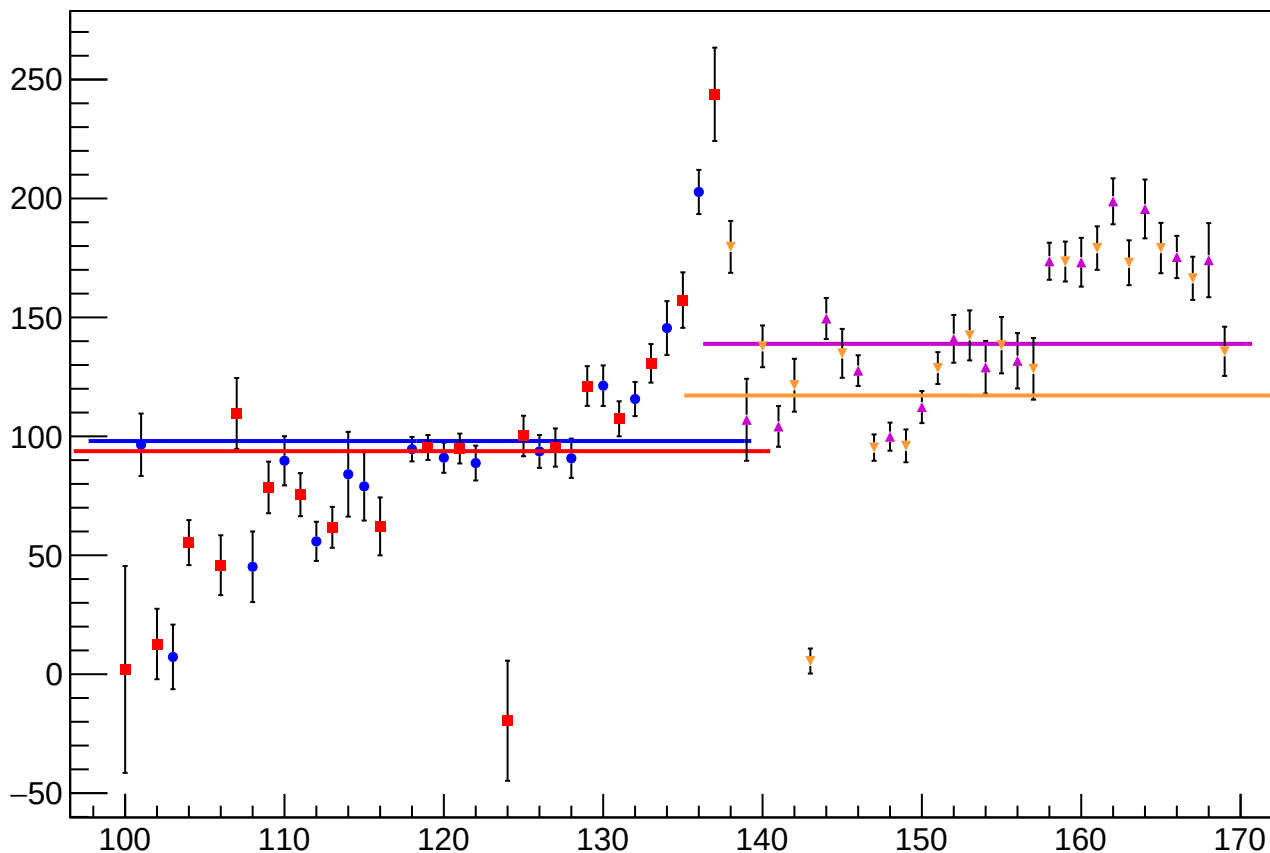
Right: 370.966+/-1.468 χ^2/NDF : 5998.9/34

In: 409.385+/-1.677 χ^2/NDF : 3535.2/30

Out: 373.670+/-1.588 χ^2/NDF : 9733.8/35

All: 390.559+/-1.153 χ^2/NDF : 13508.1/66

reg_asym_atl2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 98.021 $\pm$ 2.144 χ^2 /NDF: 249.5/15

Left Out: 117.169 $\pm$ 2.038 χ^2 /NDF: 722.0/16

Right Out: 93.771 $\pm$ 2.138 χ^2 /NDF: 237.1/18

Left In: 138.888 $\pm$ 2.292 χ^2 /NDF: 197.2/14

Left: 126.758 $\pm$ 1.523 χ^2 /NDF: 969.4/31

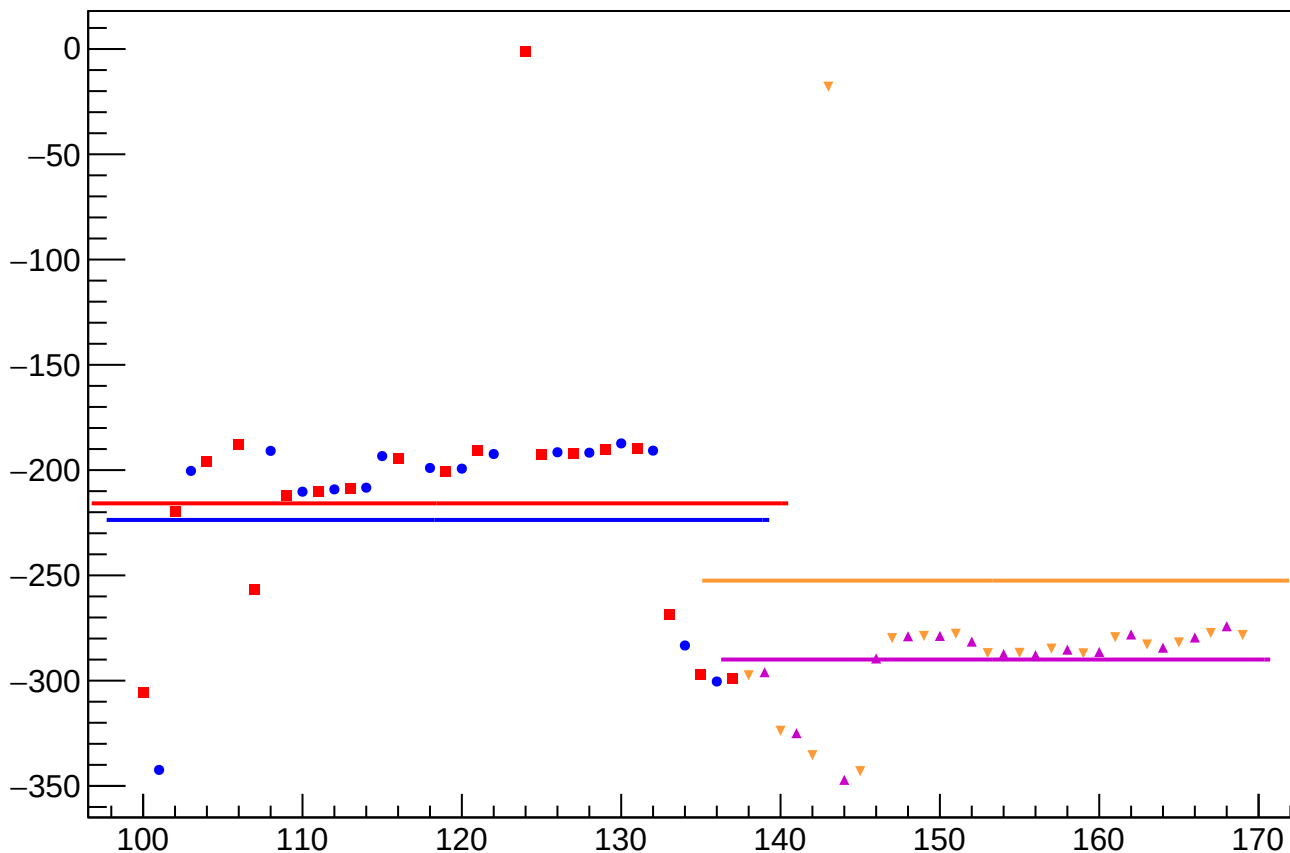
Right: 95.890 $\pm$ 1.514 χ^2 /NDF: 488.6/34

In: 117.097 $\pm$ 1.566 χ^2 /NDF: 616.3/30

Out: 106.035 $\pm$ 1.475 χ^2 /NDF: 1021.9/35

All: 111.237 $\pm$ 1.074 χ^2 /NDF: 1664.6/66

reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -223.666+/-0.138 χ^2 /NDF: 121528.3/15

Left Out: -252.494+/-0.098 χ^2 /NDF: 971388.2/16

Right Out: -215.797+/-0.134 χ^2 /NDF: 81516.6/18

Left In: -289.974+/-0.107 χ^2 /NDF: 27896.1/14

Left: -269.651+/-0.072 χ^2 /NDF: 1066403.1/31

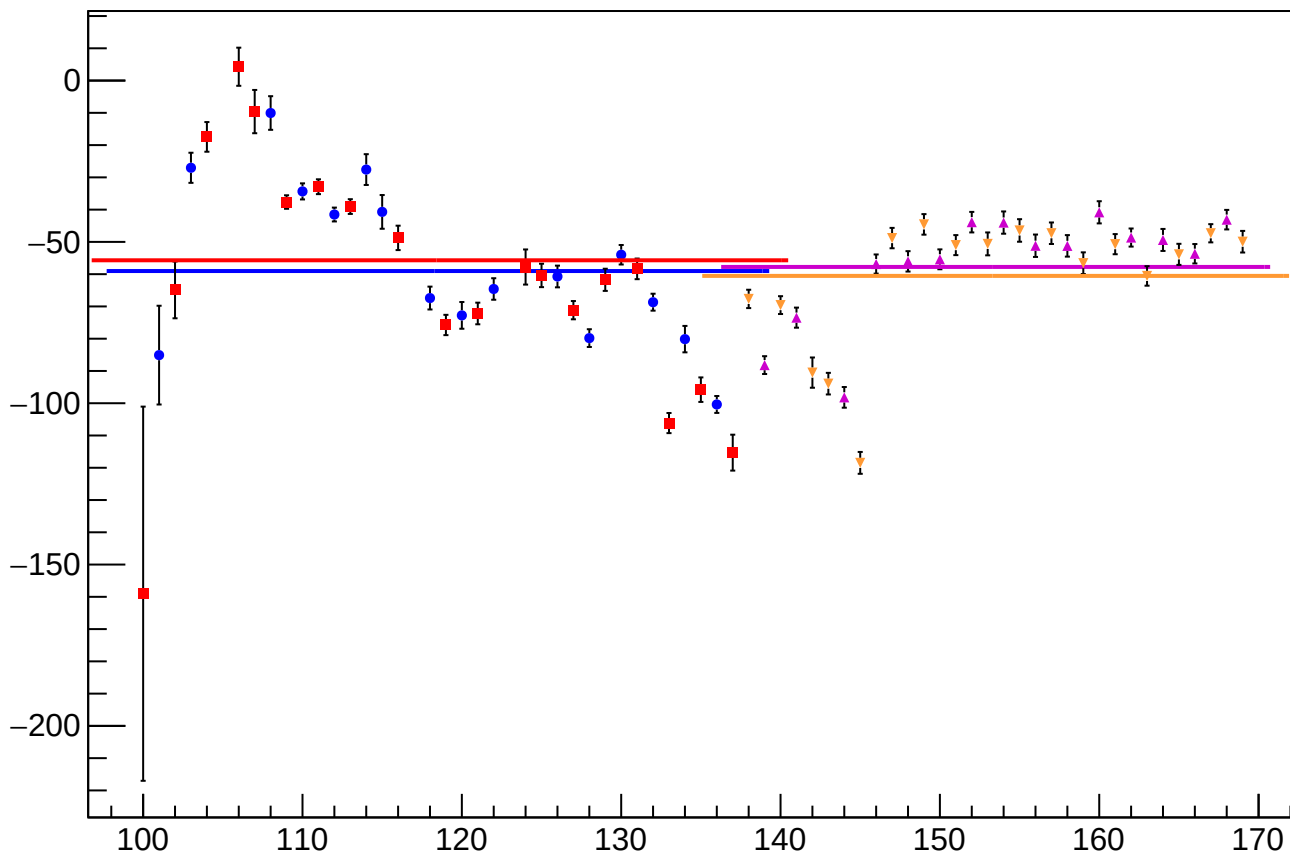
Right: -219.617+/-0.096 χ^2 /NDF: 204711.3/34

In: -265.279+/-0.084 χ^2 /NDF: 293712.8/30

Out: -239.764+/-0.079 χ^2 /NDF: 1101668.9/35

All: -251.696+/-0.058 χ^2 /NDF: 1444041.2/66

reg_asym_atr1_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -59.030 $\pm$ 0.829 χ^2 /NDF: 727.3/15

Left Out: -60.533 $\pm$ 0.781 χ^2 /NDF: 585.4/16

Right Out: -55.701 $\pm$ 0.790 χ^2 /NDF: 1041.1/18

Left In: -57.758 $\pm$ 0.810 χ^2 /NDF: 415.3/14

Left: -59.196 $\pm$ 0.562 χ^2 /NDF: 1006.8/31

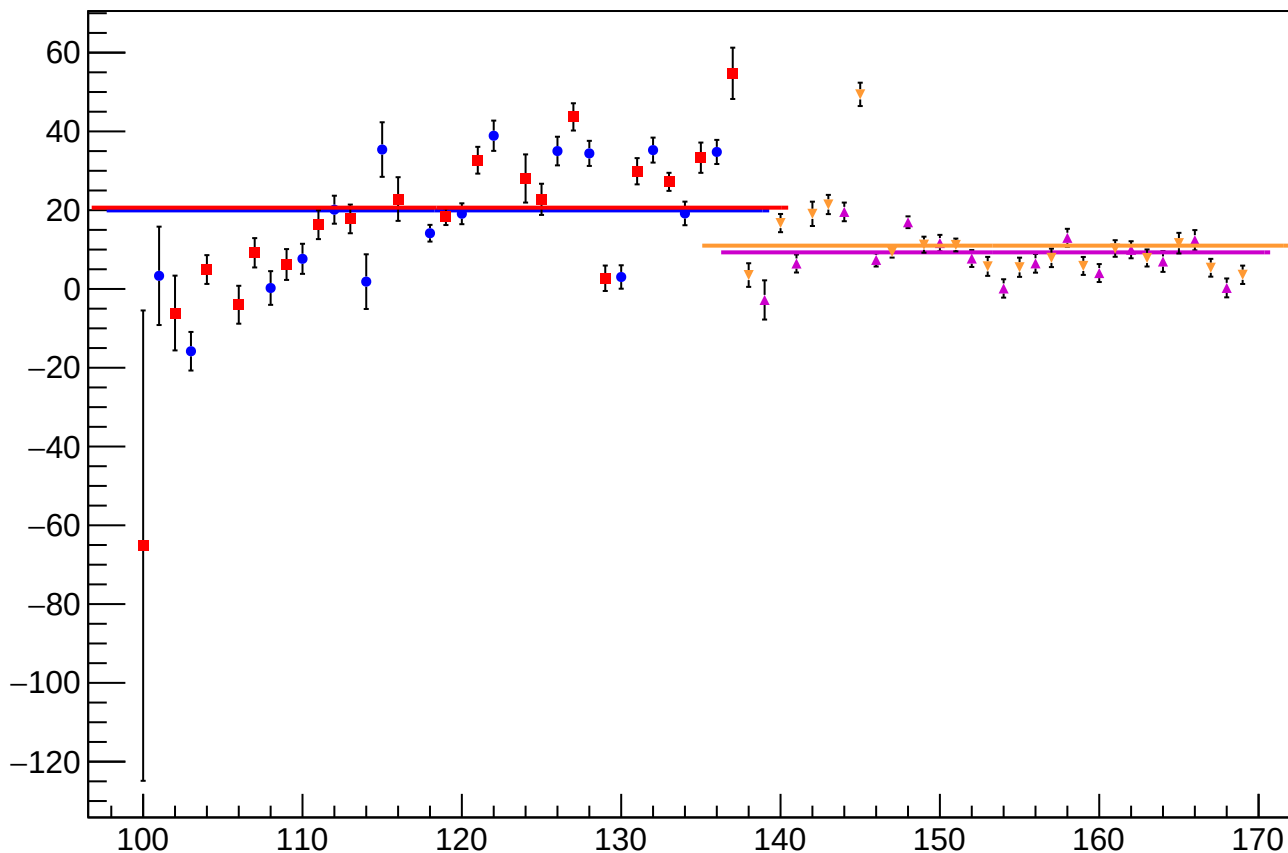
Right: -57.284 $\pm$ 0.572 χ^2 /NDF: 1776.9/34

In: -58.379 $\pm$ 0.579 χ^2 /NDF: 1143.8/30

Out: -58.145 $\pm$ 0.555 χ^2 /NDF: 1645.5/35

All: -58.257 $\pm$ 0.401 χ^2 /NDF: 2789.4/66

reg_asym_atr1_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 19.946 ± 0.867 χ^2/NDF : 247.2/15

Left Out: 10.999 ± 0.538 χ^2/NDF : 241.7/16

Right Out: 20.643 ± 0.844 χ^2/NDF : 224.8/18

Left In: 9.292 ± 0.569 χ^2/NDF : 96.9/14

Left: 10.193 ± 0.391 χ^2/NDF : 343.3/31

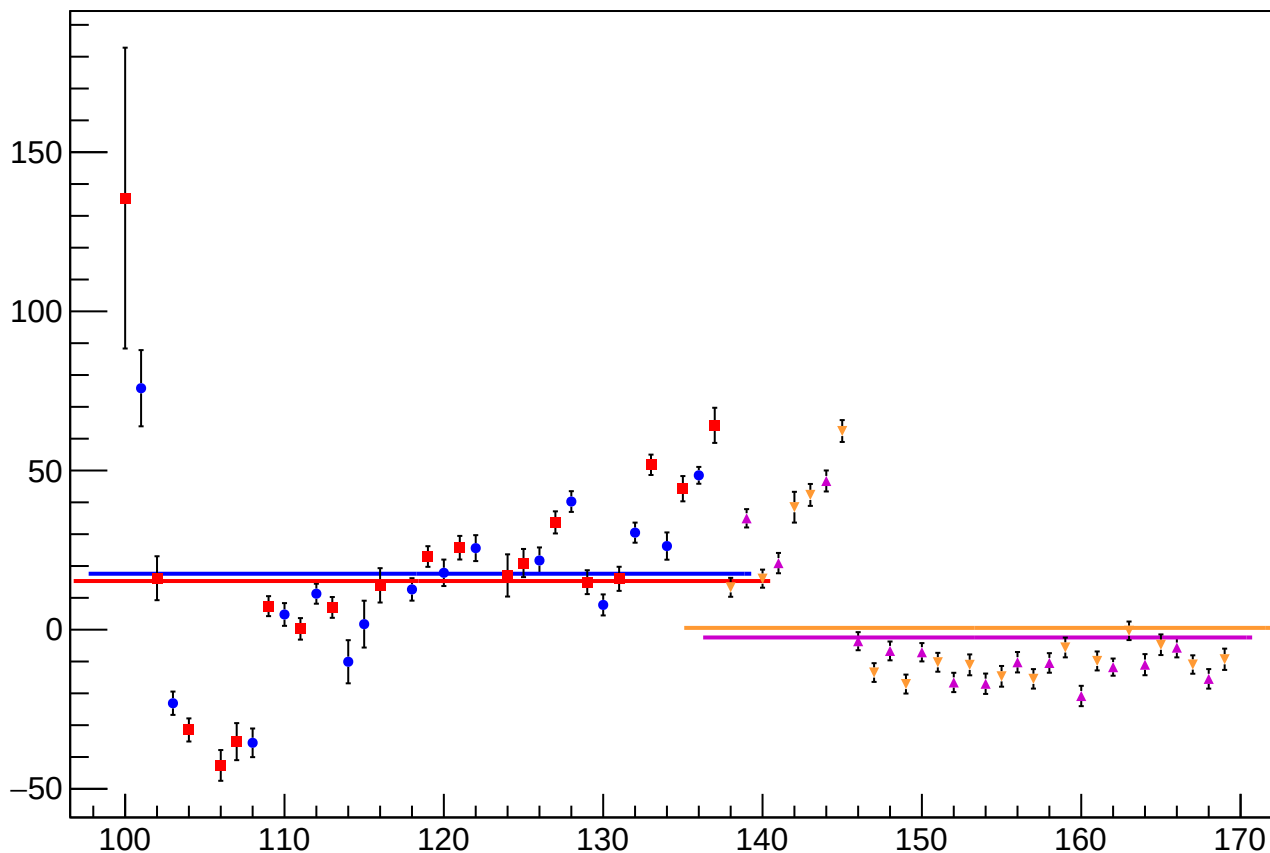
Right: 20.304 ± 0.605 χ^2/NDF : 472.3/34

In: 12.493 ± 0.475 χ^2/NDF : 449.6/30

Out: 13.784 ± 0.453 χ^2/NDF : 559.4/35

All: 13.169 ± 0.328 χ^2/NDF : 1012.8/66

reg_asym_atr1_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 17.574 $\pm$ 0.957 χ^2 /NDF: 546.2/15

Left Out: 0.561 $\pm$ 0.762 χ^2 /NDF: 757.0/16

Right Out: 15.283 $\pm$ 0.934 χ^2 /NDF: 730.0/18

Left In: -2.450 $\pm$ 0.786 χ^2 /NDF: 575.3/14

Left: -0.897 $\pm$ 0.547 χ^2 /NDF: 1339.8/31

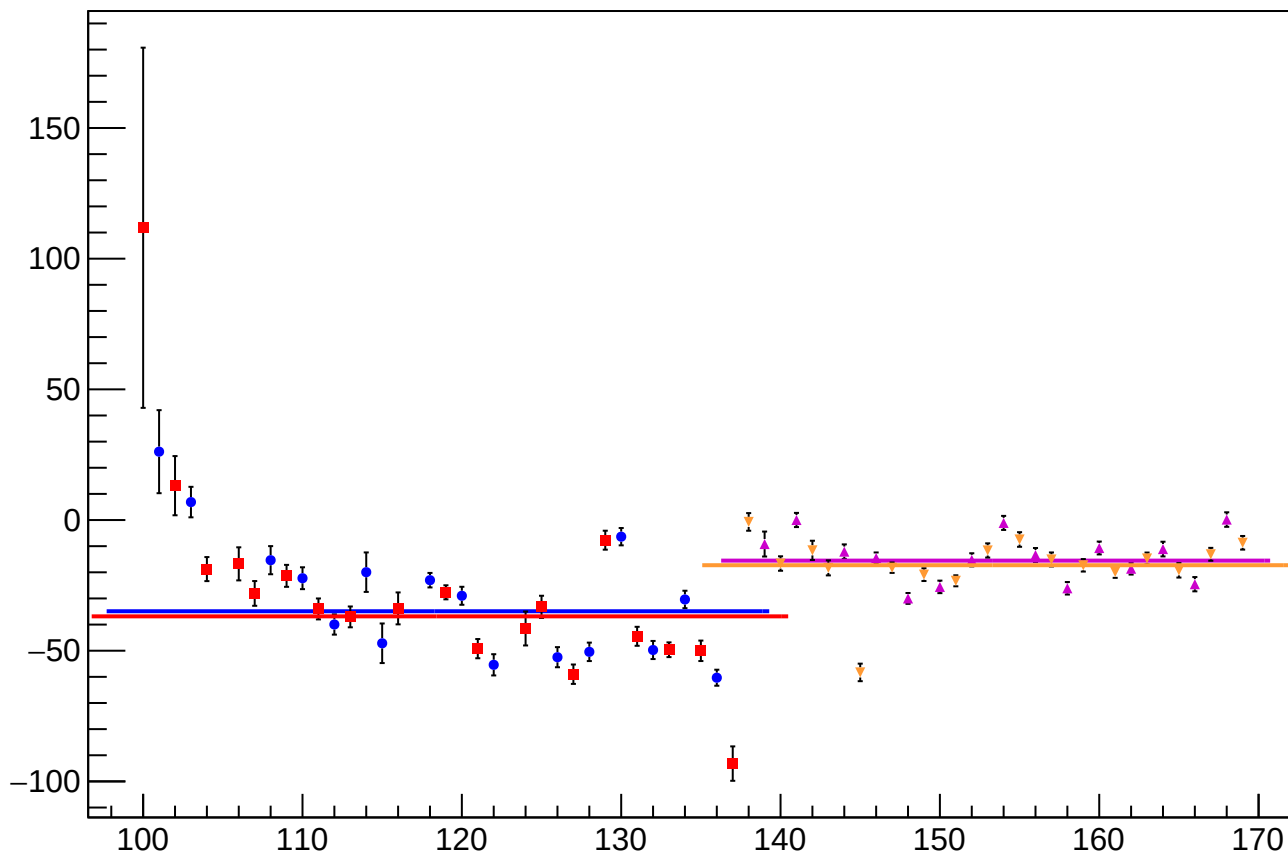
Right: 16.401 $\pm$ 0.668 χ^2 /NDF: 1279.2/34

In: 5.622 $\pm$ 0.607 χ^2 /NDF: 1383.0/30

Out: 6.441 $\pm$ 0.590 χ^2 /NDF: 1636.3/35

All: 6.043 $\pm$ 0.423 χ^2 /NDF: 3020.2/66

reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.899 ± 0.990 χ^2/NDF : 346.6/15

Left Out: -17.284 ± 0.625 χ^2/NDF : 220.8/16

Right Out: -36.853 ± 0.970 χ^2/NDF : 301.4/18

Left In: -15.527 ± 0.660 χ^2/NDF : 202.5/14

Left: -16.453 ± 0.454 χ^2/NDF : 427.1/31

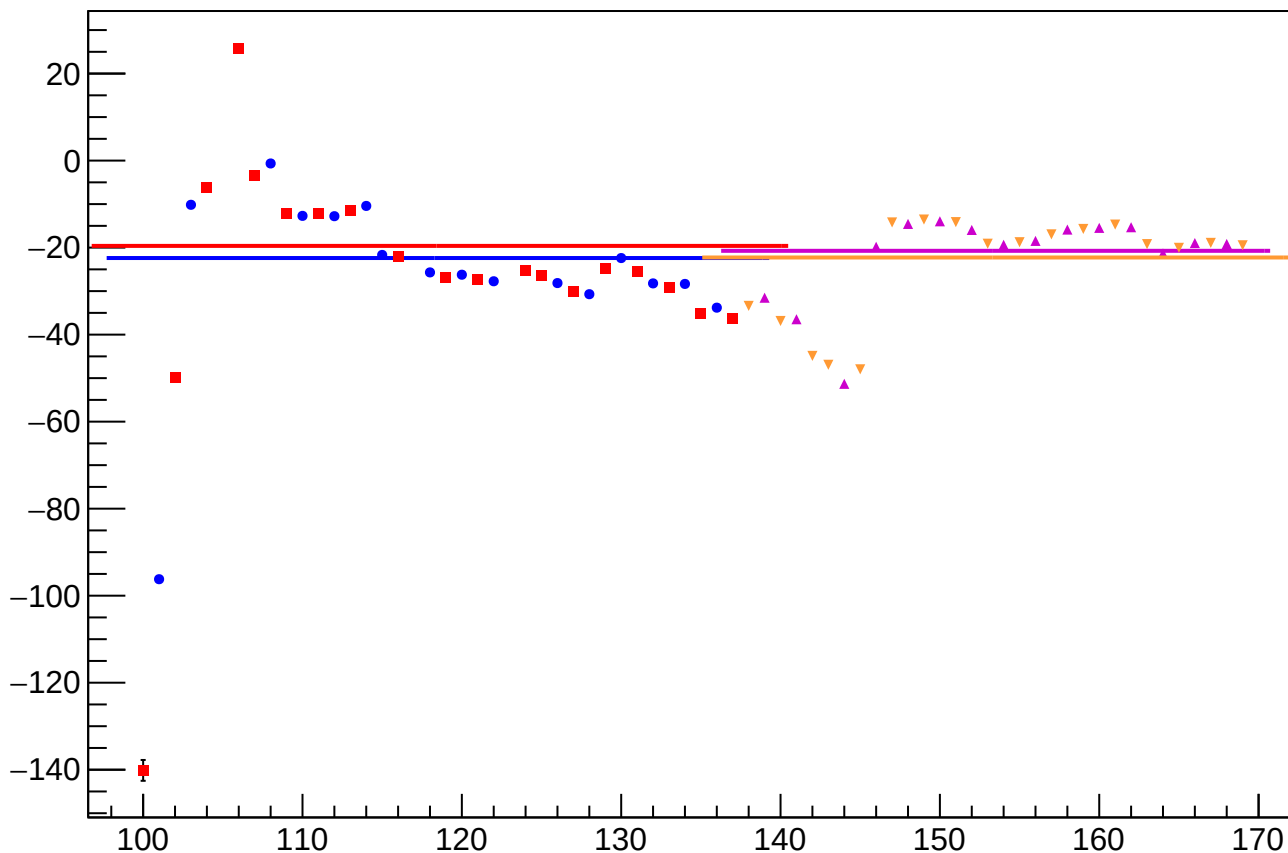
Right: -35.897 ± 0.693 χ^2/NDF : 650.0/34

In: -21.483 ± 0.549 χ^2/NDF : 814.2/30

Out: -23.029 ± 0.525 χ^2/NDF : 810.1/35

All: -22.290 ± 0.380 χ^2/NDF : 1628.4/66

reg_asym_atr1_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -22.394 ± 0.058 $\chi^2/\text{NDF}: 46519.7/15$

Left Out: -22.271 ± 0.029 $\chi^2/\text{NDF}: 131405.8/16$

Right Out: -19.605 ± 0.059 $\chi^2/\text{NDF}: 83865.7/18$

Left In: -20.738 ± 0.029 $\chi^2/\text{NDF}: 84873.3/14$

Left: -21.525 ± 0.020 $\chi^2/\text{NDF}: 217681.4/31$

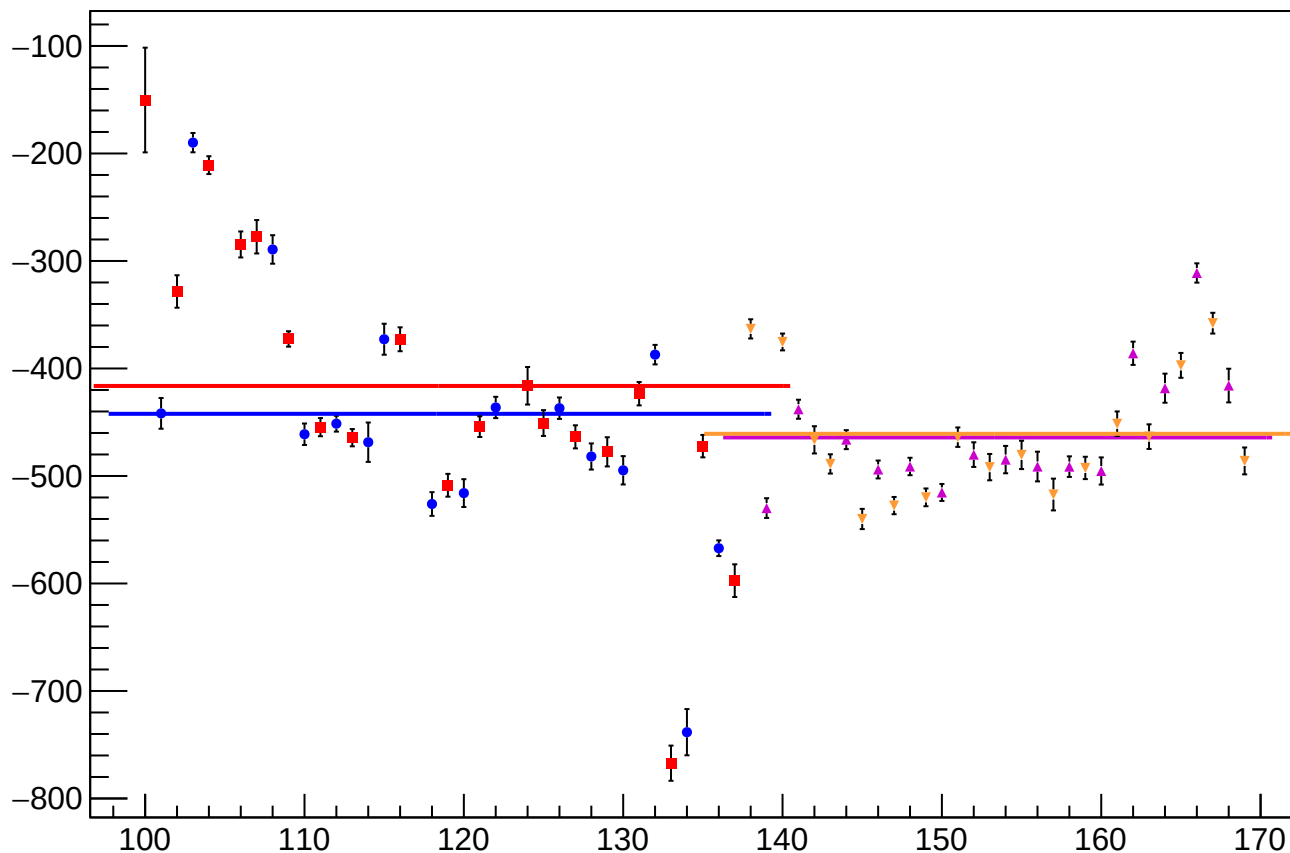
Right: -21.027 ± 0.042 $\chi^2/\text{NDF}: 131507.1/34$

In: -21.072 ± 0.026 $\chi^2/\text{NDF}: 132037.1/30$

Out: -21.771 ± 0.026 $\chi^2/\text{NDF}: 216905.2/35$

All: -21.428 ± 0.018 $\chi^2/\text{NDF}: 349303.7/66$

reg_asym_atr2_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -442.182 $\pm$ 2.682 χ^2 /NDF: 1589.1/15

Left Out: -460.777 $\pm$ 2.445 χ^2 /NDF:621.1/16

Right Out: -416.259 $\pm$ 2.523 χ^2 /NDF: 1753.8/18

Left In: -464.153 $\pm$ 2.583 χ^2 /NDF:512.3/14

Left: -462.372 $\pm$ 1.776 χ^2 /NDF: 1134.4/31

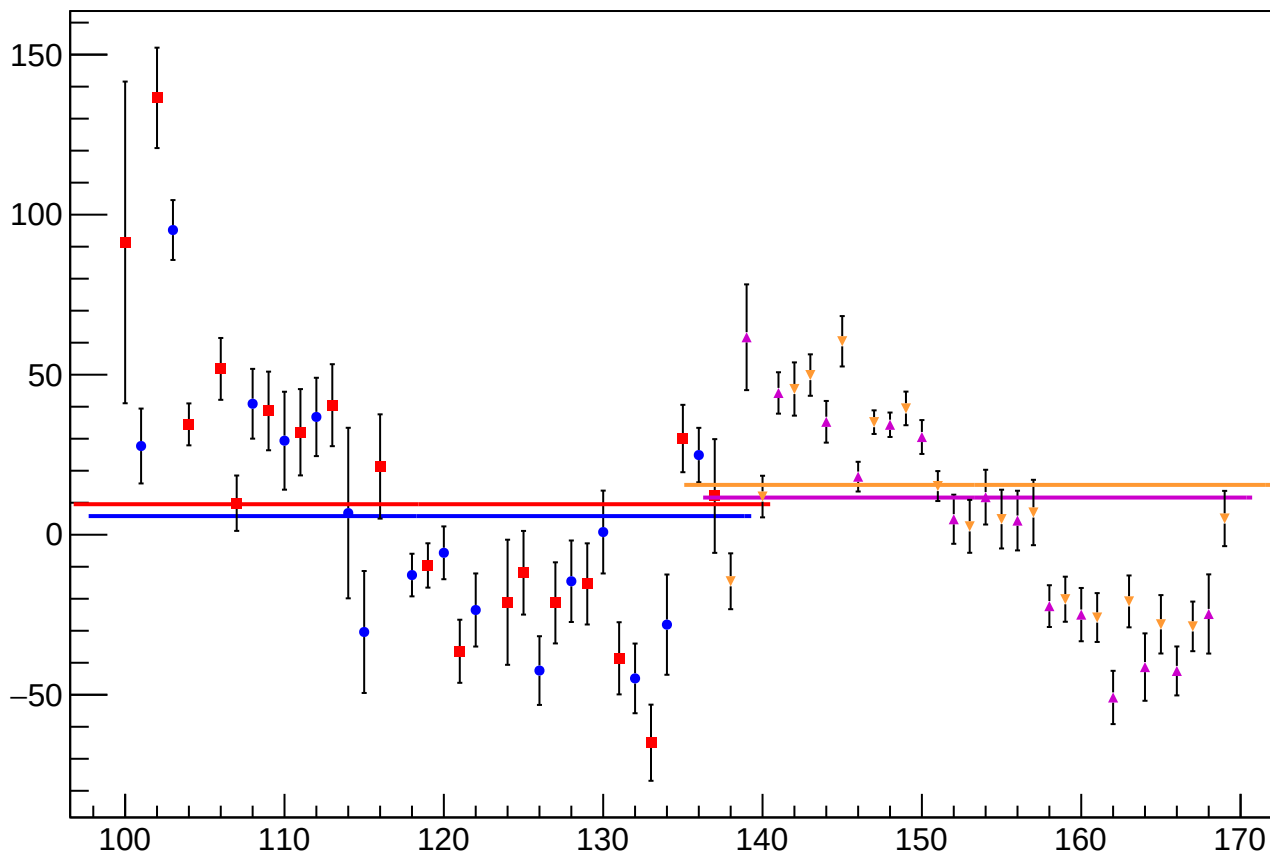
Right: -428.429 $\pm$ 1.837 χ^2 /NDF: 3392.5/34

In: -453.577 $\pm$ 1.861 χ^2 /NDF:2136.2/30

Out: -439.215 $\pm$ 1.756 χ^2 /NDF:2535.6/35

All: -445.980 $\pm$ 1.277 χ^2 /NDF: 4703.3/66

reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.824 ± 2.728 χ^2/NDF : 188.1/15

Left Out: 15.570 ± 1.628 χ^2/NDF : 271.5/16

Right Out: 9.536 ± 2.556 χ^2/NDF : 222.2/18

Left In: 11.615 ± 1.743 χ^2/NDF : 286.4/14

Left: 13.728 ± 1.190 χ^2/NDF : 560.6/31

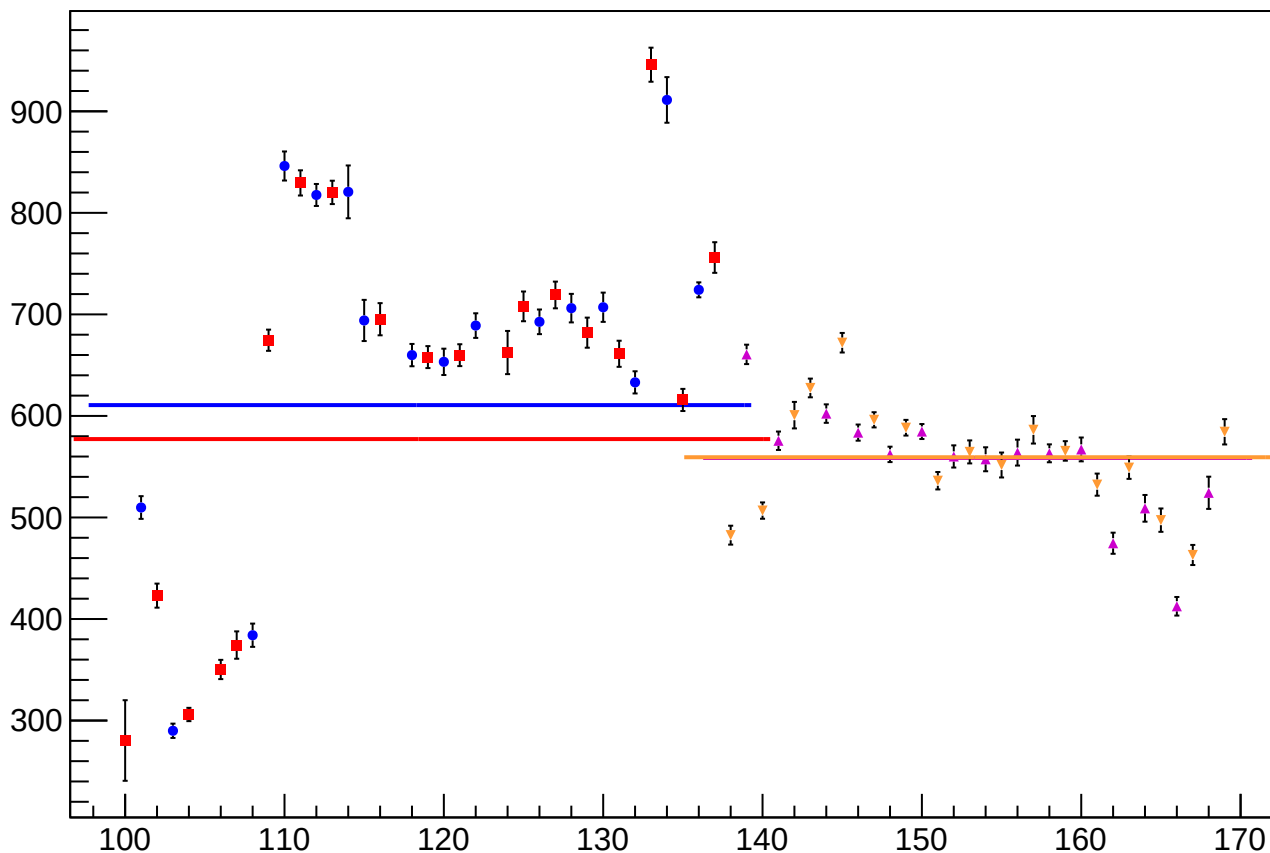
Right: 7.800 ± 1.865 χ^2/NDF : 411.3/34

In: 9.936 ± 1.469 χ^2/NDF : 477.7/30

Out: 13.830 ± 1.373 χ^2/NDF : 497.6/35

All: 12.014 ± 1.003 χ^2/NDF : 979.0/66

reg_asym_atr2_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 610.665 $\pm$ 2.892 χ^2 /NDF: 3892.6/15

Left Out: 559.316 $\pm$ 2.390 χ^2 /NDF: 497.6/16

Right Out: 577.205 $\pm$ 2.755 χ^2 /NDF: 4800.3/18

Left In: 558.575 $\pm$ 2.505 χ^2 /NDF: 502.6/14

Left: 558.963 $\pm$ 1.729 χ^2 /NDF: 1000.3/31

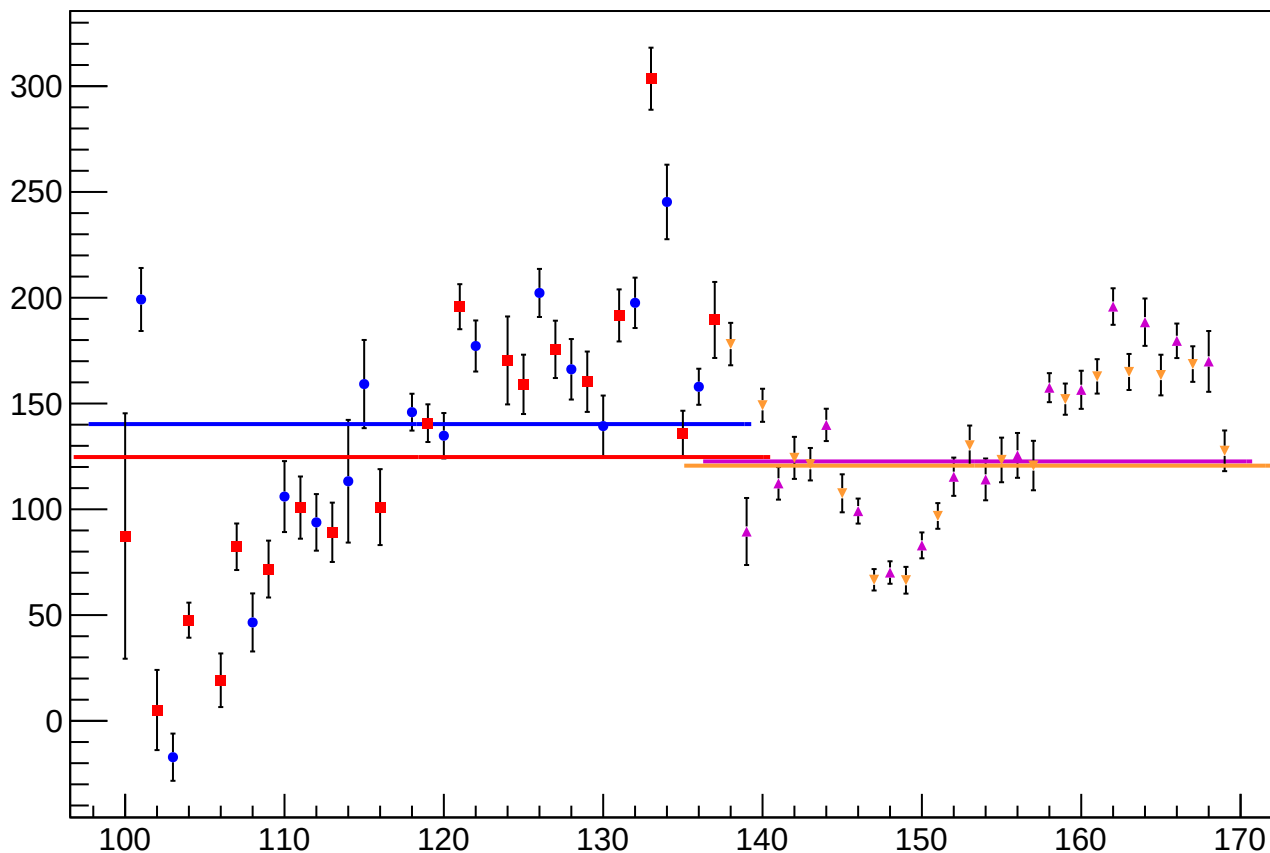
Right: 593.122 $\pm$ 1.995 χ^2 /NDF: 8763.0/34

In: 580.900 $\pm$ 1.893 χ^2 /NDF: 4580.5/30

Out: 566.997 $\pm$ 1.805 χ^2 /NDF: 5321.9/35

All: 573.617 $\pm$ 1.307 χ^2 /NDF: 9930.7/66

reg_asym_atr2_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 140.278 $\pm$ 3.151 χ^2 /NDF: 385.4/15

Left Out: 120.626 $\pm$ 1.932 χ^2 /NDF:377.1/16

Right Out: 124.697 $\pm$ 2.979 χ^2 /NDF: 508.5/18

Left In: 122.624 $\pm$ 2.063 χ^2 /NDF:374.2/14

Left: 121.560 $\pm$ 1.410 χ^2 /NDF: 751.8/31

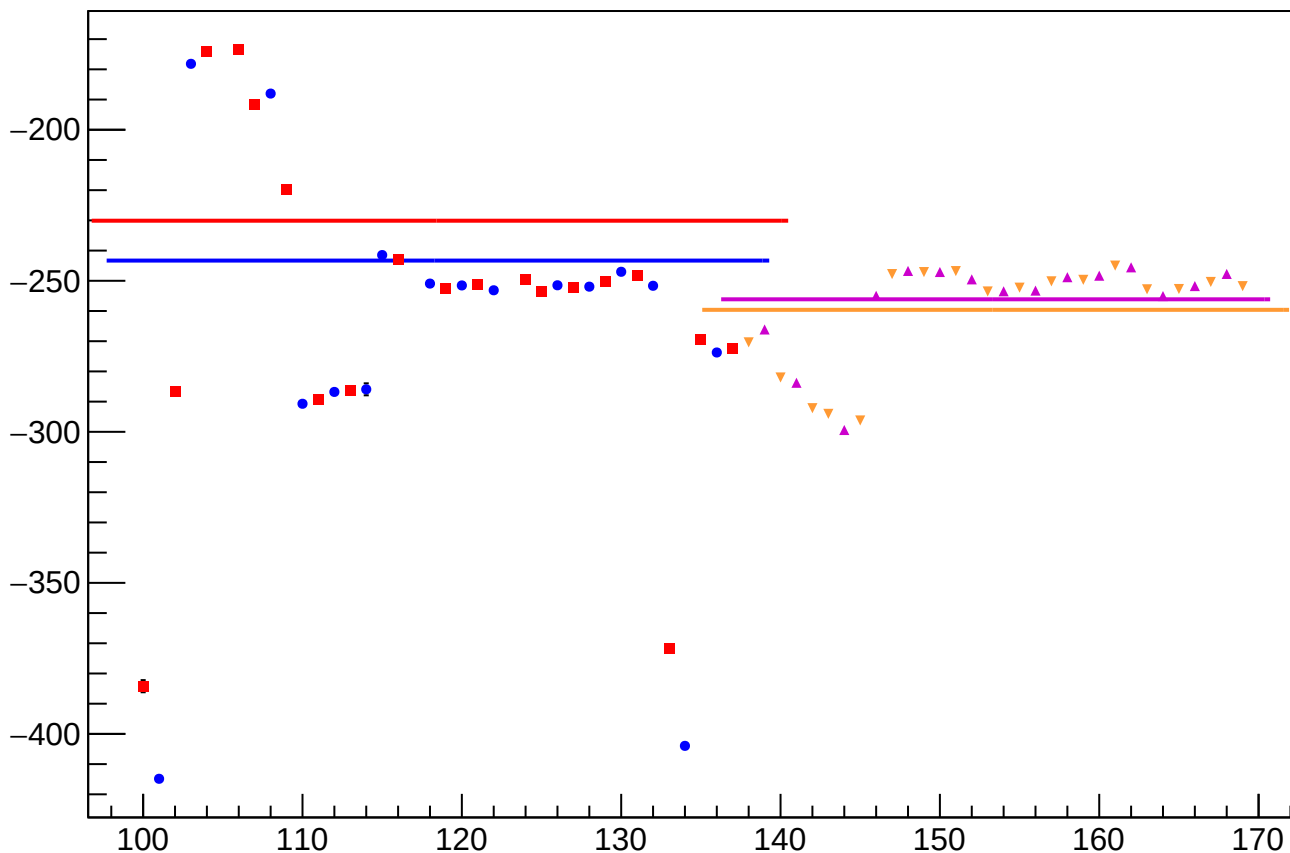
Right: 132.049 $\pm$ 2.165 χ^2 /NDF: 906.8/34

In: 127.922 $\pm$ 1.726 χ^2 /NDF:781.5/30

Out: 121.832 $\pm$ 1.621 χ^2 /NDF:886.9/35

All: 124.686 $\pm$ 1.182 χ^2 /NDF: 1675.1/66

reg_asym_atr2_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -243.308+/-0.163 χ^2 /NDF: 173487.9/15

Left Out: -259.613+/-0.092 χ^2 /NDF:34665.4/16

Right Out: -230.109+/-0.157 χ^2 /NDF: 102451.2/18

Left In: -256.129+/-0.096 χ^2 /NDF:21949.0/14

Left: -257.936+/-0.067 χ^2 /NDF: 57297.0/31

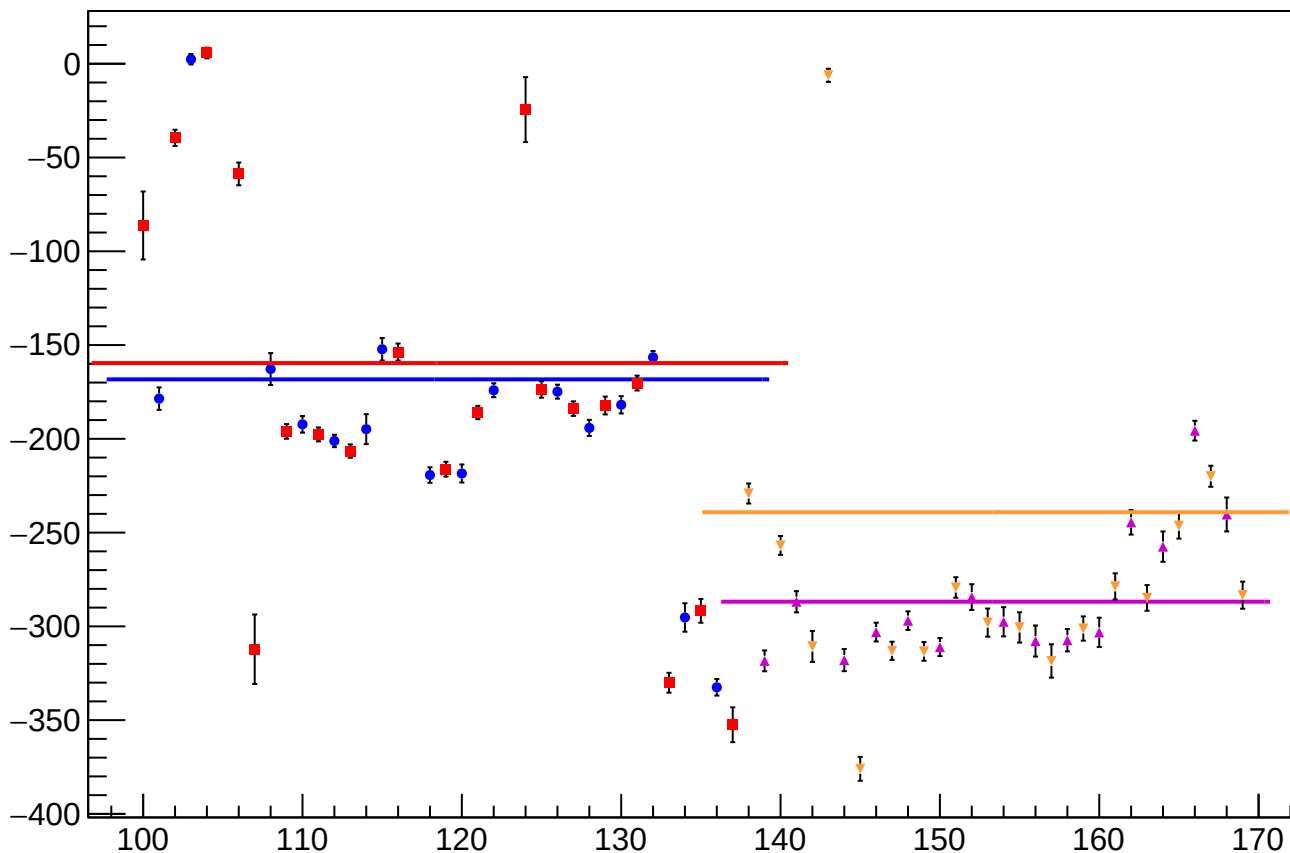
Right: -236.496+/-0.113 χ^2 /NDF: 279343.3/34

In: -252.812+/-0.083 χ^2 /NDF:200050.6/30

Out: -252.037+/-0.080 χ^2 /NDF:163241.1/35

All: -252.411+/-0.057 χ^2 /NDF: 363337.2/66

reg_asym_atl_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -168.291 ± 1.076 χ^2/NDF : 5907.6/15

Left Out: -239.122 ± 1.421 χ^2/NDF : 5884.9/16

Right Out: -159.602 ± 1.042 χ^2/NDF : 7197.9/18

Left In: -286.845 ± 1.582 χ^2/NDF : 505.2/14

Left: -260.433 ± 1.057 χ^2/NDF : 6893.7/31

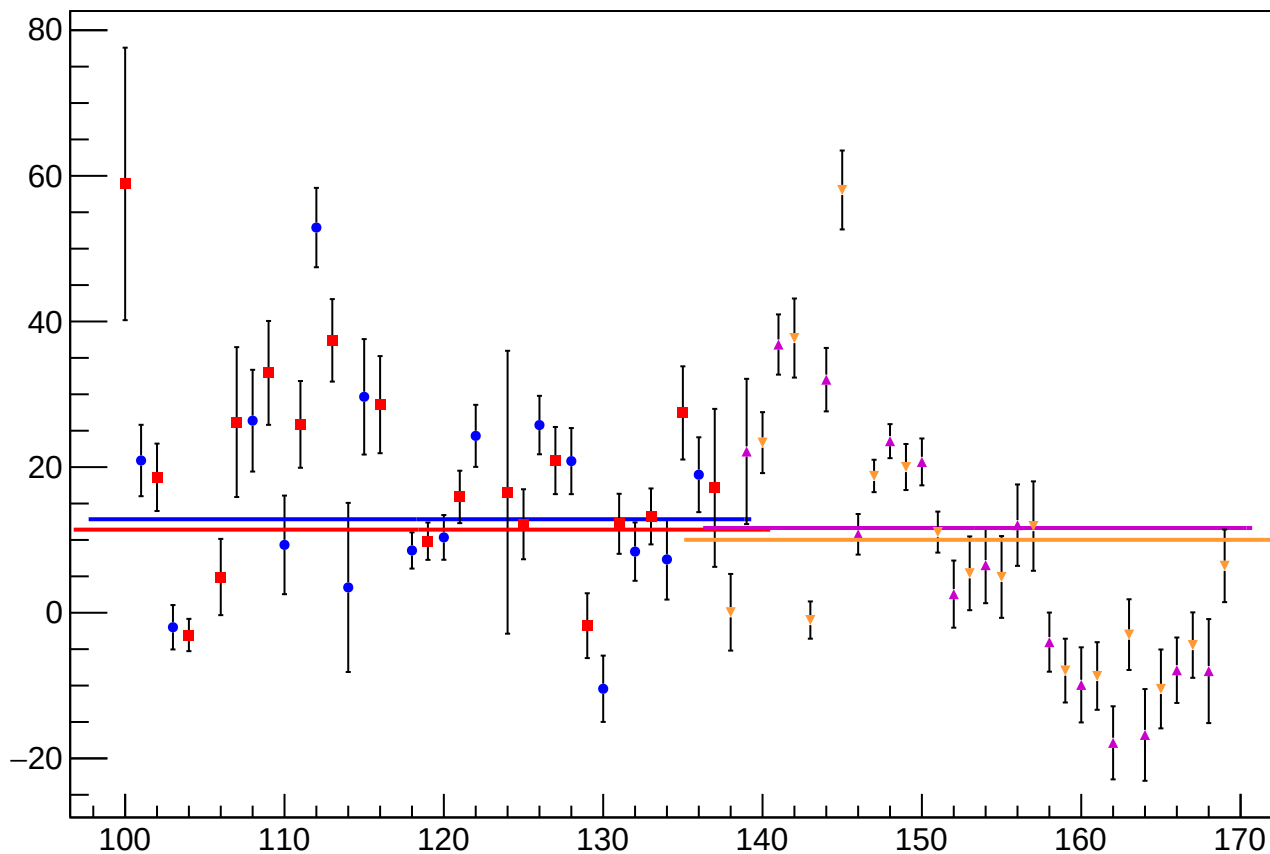
Right: -163.809 ± 0.749 χ^2/NDF : 13139.1/34

In: -205.778 ± 0.890 χ^2/NDF : 10253.1/30

Out: -187.418 ± 0.840 χ^2/NDF : 15118.7/35

All: -196.078 ± 0.611 χ^2/NDF : 25596.9/66

reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.842 ± 1.076 $\chi^2/\text{NDF}: 143.7/15$

Left Out: 10.016 ± 0.952 $\chi^2/\text{NDF}: 229.8/16$

Right Out: 11.414 ± 1.035 $\chi^2/\text{NDF}: 119.6/18$

Left In: 11.641 ± 1.067 $\chi^2/\text{NDF}: 212.8/14$

Left: 10.735 ± 0.710 $\chi^2/\text{NDF}: 443.9/31$

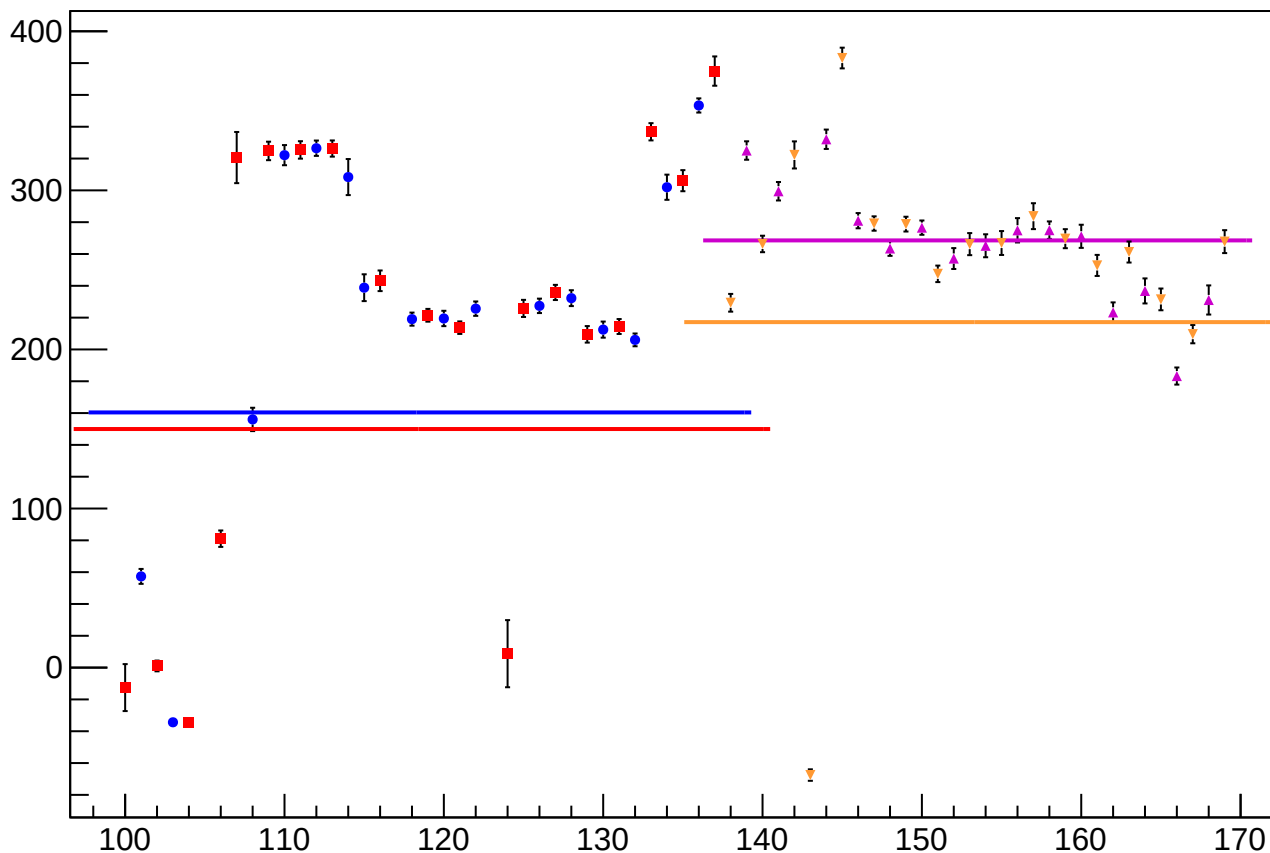
Right: 12.100 ± 0.746 $\chi^2/\text{NDF}: 264.2/34$

In: 12.236 ± 0.758 $\chi^2/\text{NDF}: 357.1/30$

Out: 10.656 ± 0.701 $\chi^2/\text{NDF}: 350.3/35$

All: 11.384 ± 0.515 $\chi^2/\text{NDF}: 709.8/66$

reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 160.407 $\pm$ 1.139 χ^2 /NDF: 13949.8/15

Left Out: 217.180 $\pm$ 1.394 χ^2 /NDF: 7883.2/16

Right Out: 149.974 $\pm$ 1.107 χ^2 /NDF: 16265.2/18

Left In: 268.542 $\pm$ 1.533 χ^2 /NDF: 585.3/14

Left: 240.438 $\pm$ 1.032 χ^2 /NDF: 9082.8/31

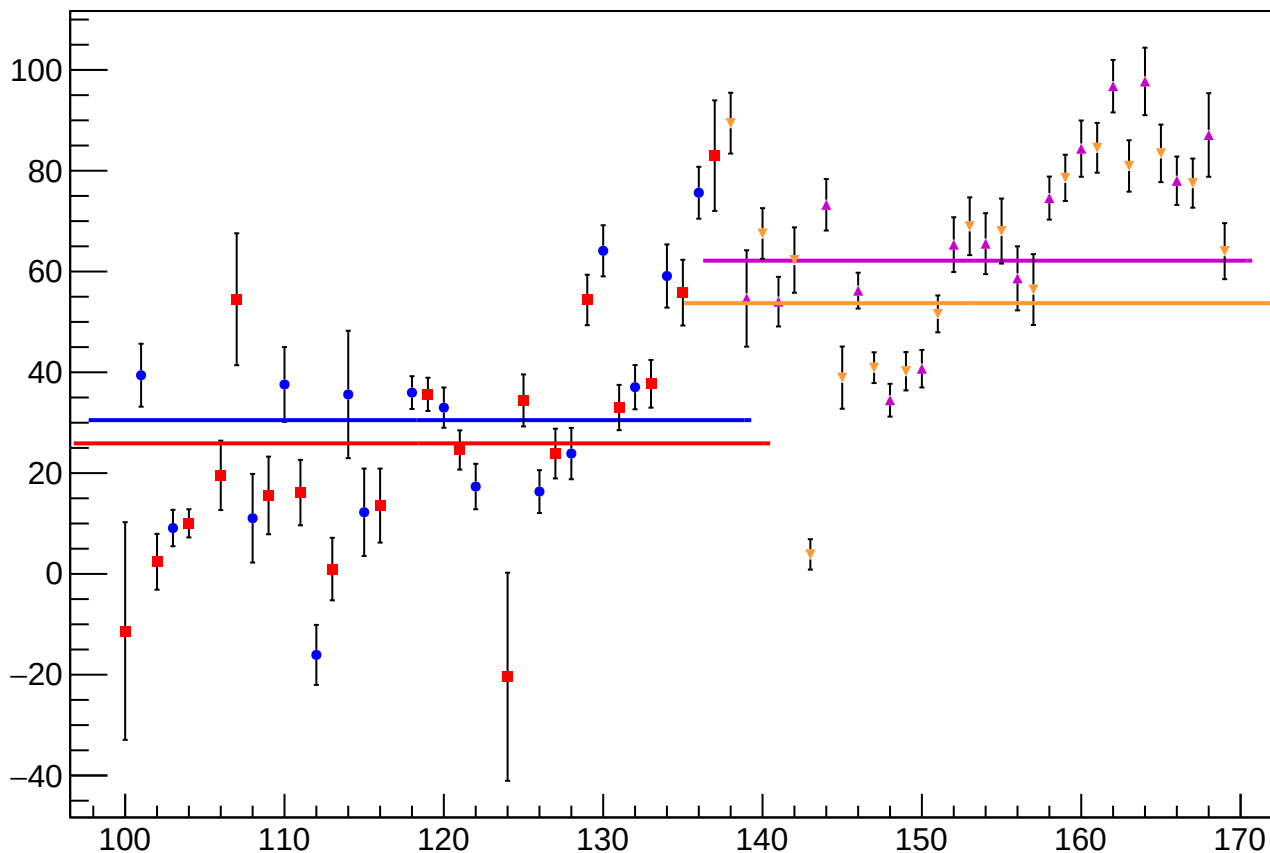
Right: 155.041 $\pm$ 0.794 χ^2 /NDF: 30258.1/34

In: 198.872 $\pm$ 0.914 χ^2 /NDF: 17741.3/30

Out: 175.948 $\pm$ 0.867 χ^2 /NDF: 25573.4/35

All: 186.801 $\pm$ 0.629 χ^2 /NDF: 43645.8/66

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 30.510 $\pm$ 1.255 χ^2 /NDF: 276.9/15

Left Out: 53.721 $\pm$ 1.129 χ^2 /NDF: 516.9/16

Right Out: 25.903 $\pm$ 1.213 χ^2 /NDF: 187.8/18

Left In: 62.154 $\pm$ 1.263 χ^2 /NDF: 234.2/14

Left: 57.465 $\pm$ 0.842 χ^2 /NDF: 775.8/31

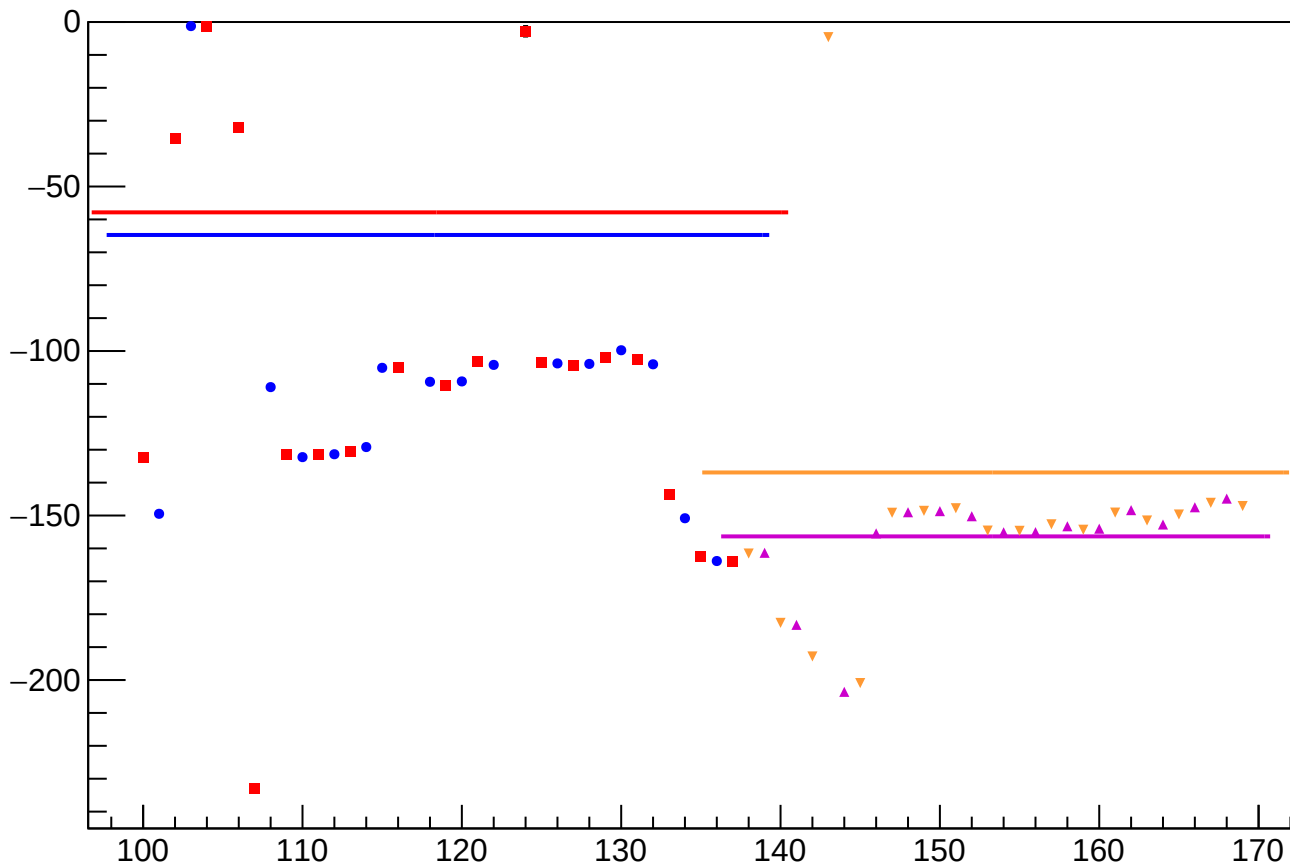
Right: 28.129 $\pm$ 0.872 χ^2 /NDF: 471.7/34

In: 46.219 $\pm$ 0.890 χ^2 /NDF: 827.0/30

Out: 40.811 $\pm$ 0.826 χ^2 /NDF: 986.5/35

All: 43.314 $\pm$ 0.606 χ^2 /NDF: 1833.3/66

reg_asym_atl_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -64.726 $\pm$ 0.064 χ^2 /NDF: 1044441.7/15

Left Out: -136.911 $\pm$ 0.054 χ^2 /NDF: 961965.4/16

Right Out: -57.855 $\pm$ 0.062 χ^2 /NDF: 875795.9/18

Left In: -156.345 $\pm$ 0.059 χ^2 /NDF: 51955.9/14

Left: -145.857 $\pm$ 0.040 χ^2 /NDF: 1073217.1/31

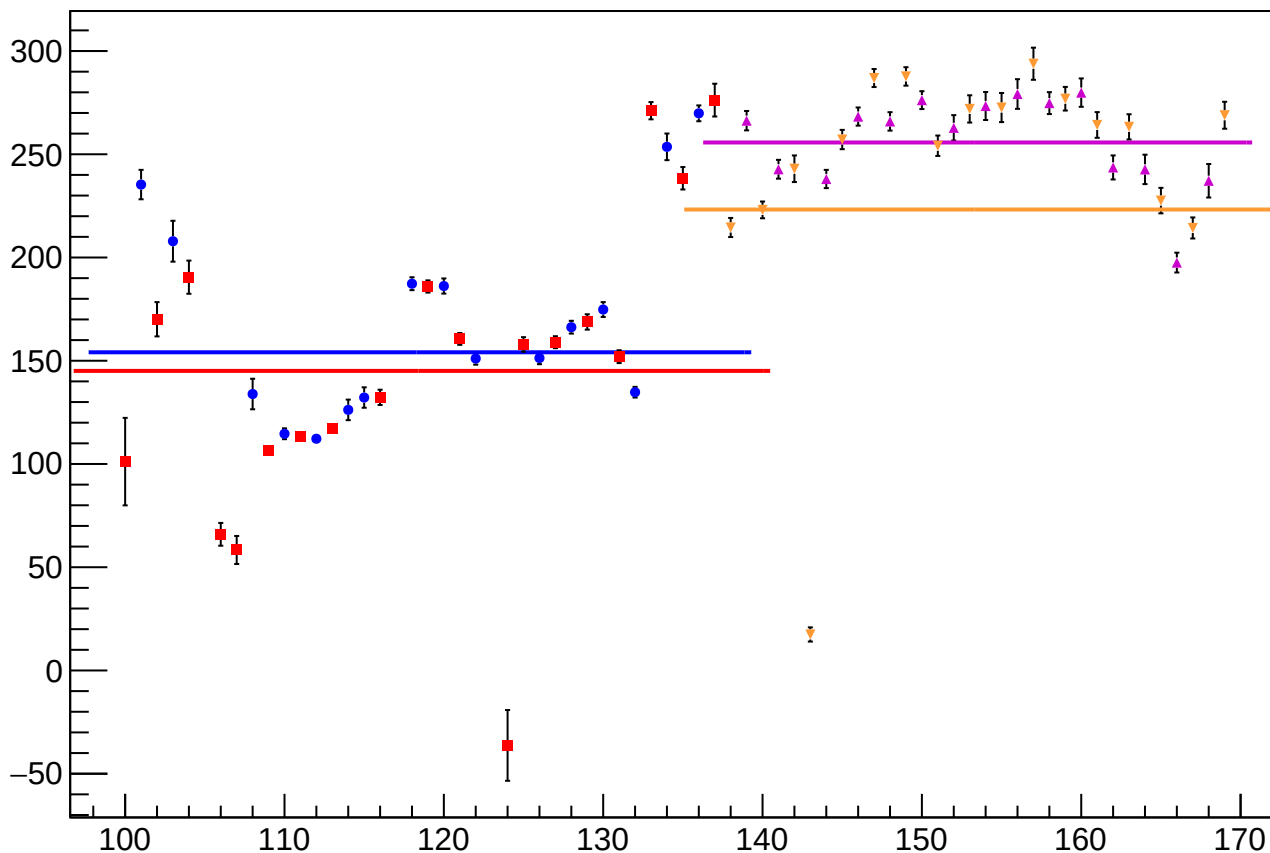
Right: -61.201 $\pm$ 0.045 χ^2 /NDF: 1926190.0/34

In: -114.392 $\pm$ 0.043 χ^2 /NDF: 2214576.7/30

Out: -102.798 $\pm$ 0.041 χ^2 /NDF: 2757626.4/35

All: -108.272 $\pm$ 0.030 χ^2 /NDF: 5010283.6/66

reg_asym_atl_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 154.096 ± 0.869 χ^2/NDF : 2281.1/15

Left Out: 223.244 ± 1.254 χ^2/NDF : 4507.9/16

Right Out: 145.083 ± 0.826 χ^2/NDF : 2958.4/18

Left In: 255.708 ± 1.371 χ^2/NDF : 268.8/14

Left: 238.032 ± 0.925 χ^2/NDF : 5082.1/31

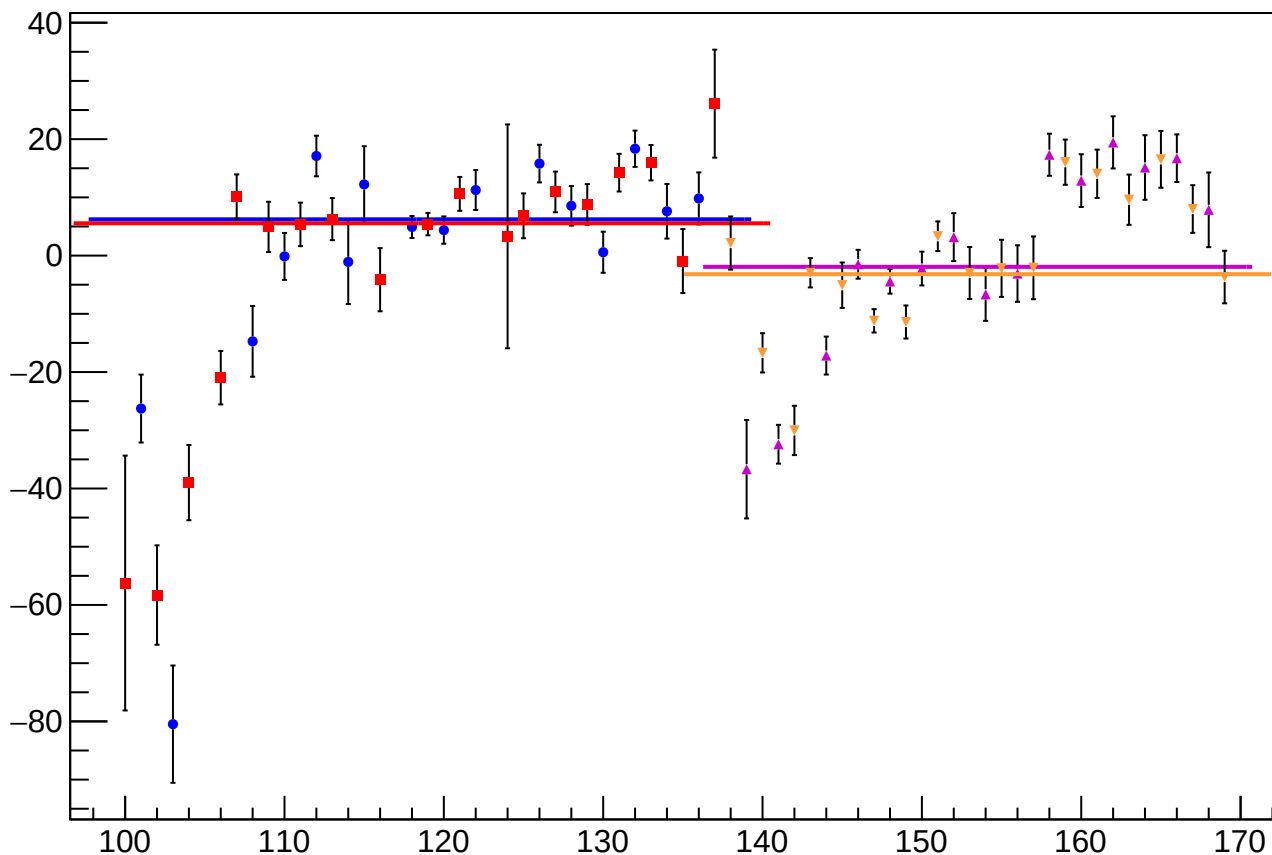
Right: 149.361 ± 0.599 χ^2/NDF : 5296.0/34

In: 183.232 ± 0.734 χ^2/NDF : 6469.3/30

Out: 168.741 ± 0.690 χ^2/NDF : 10176.4/35

All: 175.537 ± 0.503 χ^2/NDF : 16852.7/66

reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.229 ± 0.890 χ^2/NDF : 162.1/15

Left Out: -3.189 ± 0.846 χ^2/NDF : 163.2/16

Right Out: 5.548 ± 0.889 χ^2/NDF : 181.1/18

Left In: -1.933 ± 0.934 χ^2/NDF : 221.0/14

Left: -2.622 ± 0.627 χ^2/NDF : 385.2/31

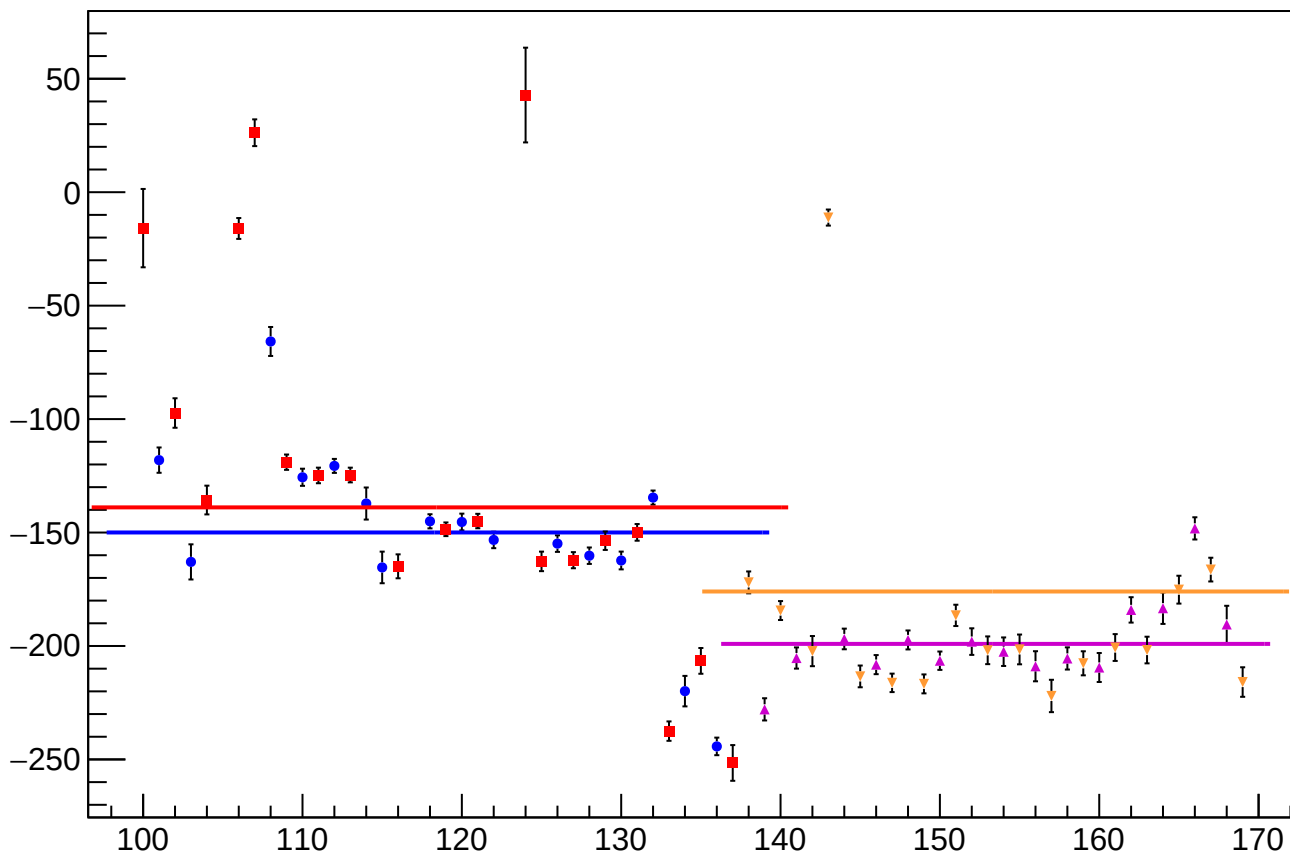
Right: 5.888 ± 0.629 χ^2/NDF : 343.5/34

In: 2.343 ± 0.644 χ^2/NDF : 423.1/30

Out: 0.961 ± 0.613 χ^2/NDF : 395.0/35

All: 1.618 ± 0.444 χ^2/NDF : 820.5/66

reg_asym_atl_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -149.970 ± 1.026 $\chi^2/\text{NDF}: 1099.5/15$

Left Out: -175.983 ± 1.232 $\chi^2/\text{NDF}: 2630.9/16$

Right Out: -138.912 ± 0.993 $\chi^2/\text{NDF}: 2750.9/18$

Left In: -199.078 ± 1.332 $\chi^2/\text{NDF}: 173.5/14$

Left: -186.629 ± 0.904 $\chi^2/\text{NDF}: 2966.4/31$

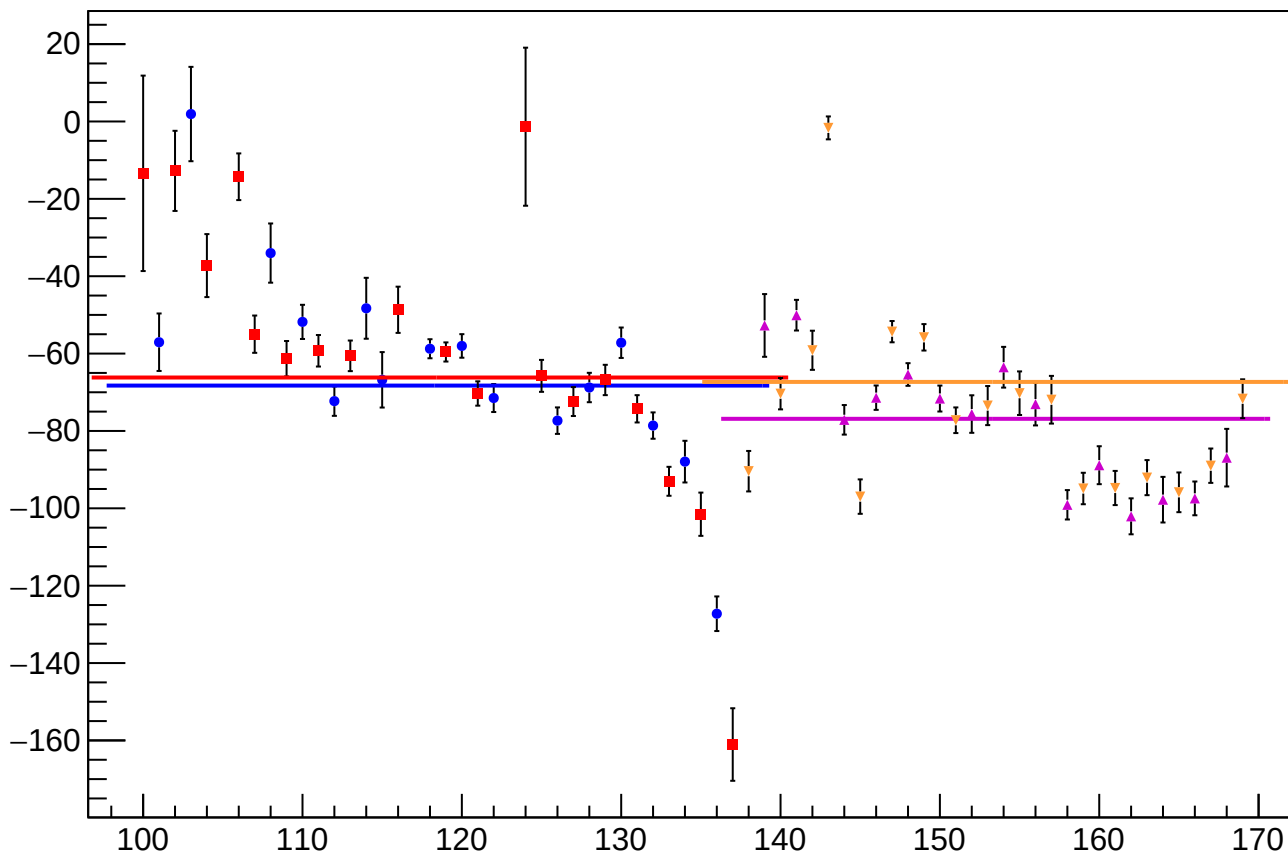
Right: -144.265 ± 0.714 $\chi^2/\text{NDF}: 3910.3/34$

In: -168.247 ± 0.813 $\chi^2/\text{NDF}: 2126.2/30$

Out: -153.521 ± 0.773 $\chi^2/\text{NDF}: 5930.5/35$

All: -160.519 ± 0.560 $\chi^2/\text{NDF}: 8229.0/66$

reg_asym_atl_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -68.272 ± 1.033 χ^2/NDF : 315.4/15

Left Out: -67.324 ± 1.002 χ^2/NDF : 773.2/16

Right Out: -66.186 ± 1.024 χ^2/NDF : 358.3/18

Left In: -76.863 ± 1.103 χ^2/NDF : 188.5/14

Left: -71.637 ± 0.742 χ^2/NDF : 1002.6/31

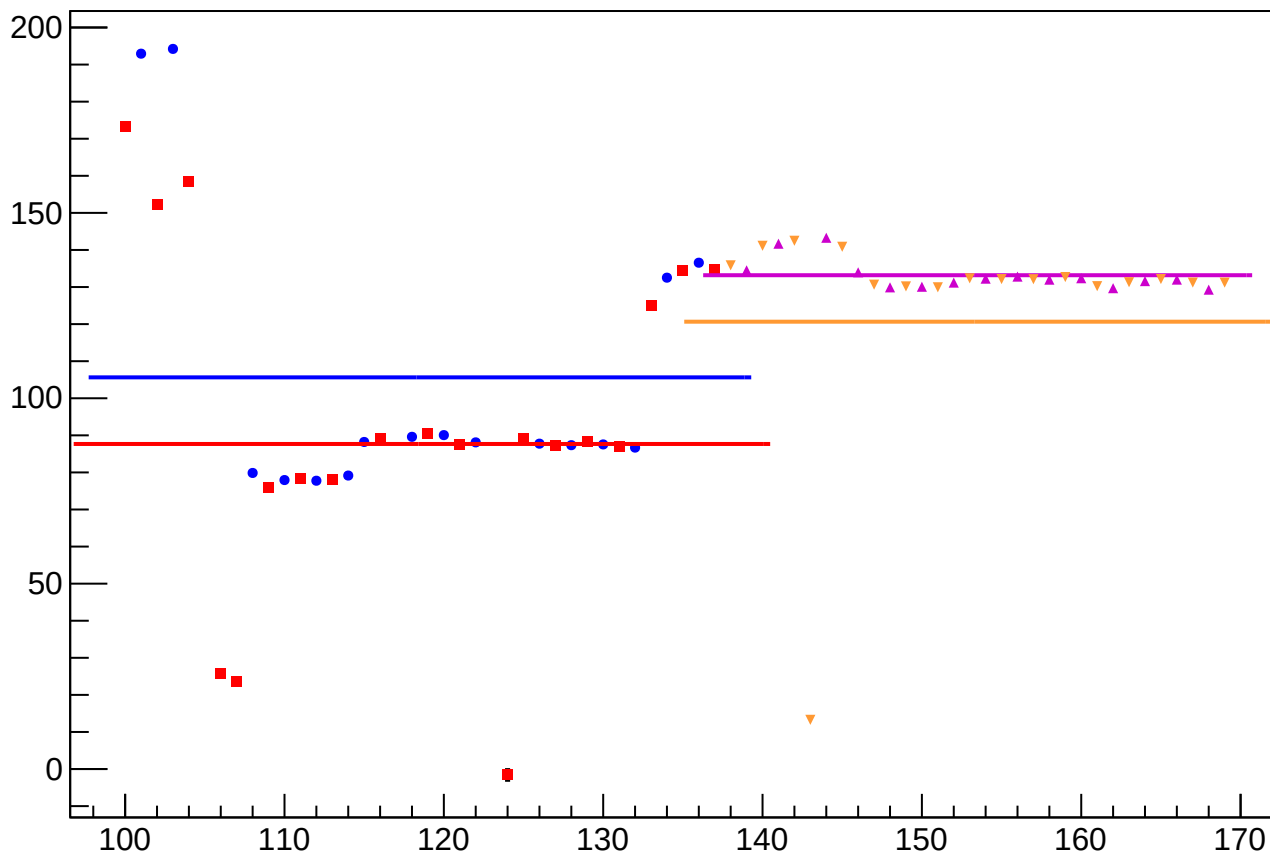
Right: -67.219 ± 0.727 χ^2/NDF : 675.8/34

In: -72.286 ± 0.754 χ^2/NDF : 536.2/30

Out: -66.767 ± 0.716 χ^2/NDF : 1132.1/35

All: -69.384 ± 0.519 χ^2/NDF : 1696.5/66

reg_asym_atl_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 105.640 $\pm$ 0.071 χ^2 /NDF: 239614.1/15

Left Out: 120.654 $\pm$ 0.048 χ^2 /NDF: 602381.7/16

Right Out: 87.673 $\pm$ 0.066 χ^2 /NDF: 374460.7/18

Left In: 133.188 $\pm$ 0.051 χ^2 /NDF: 5968.1/14

Left: 126.510 $\pm$ 0.035 χ^2 /NDF: 640401.6/31

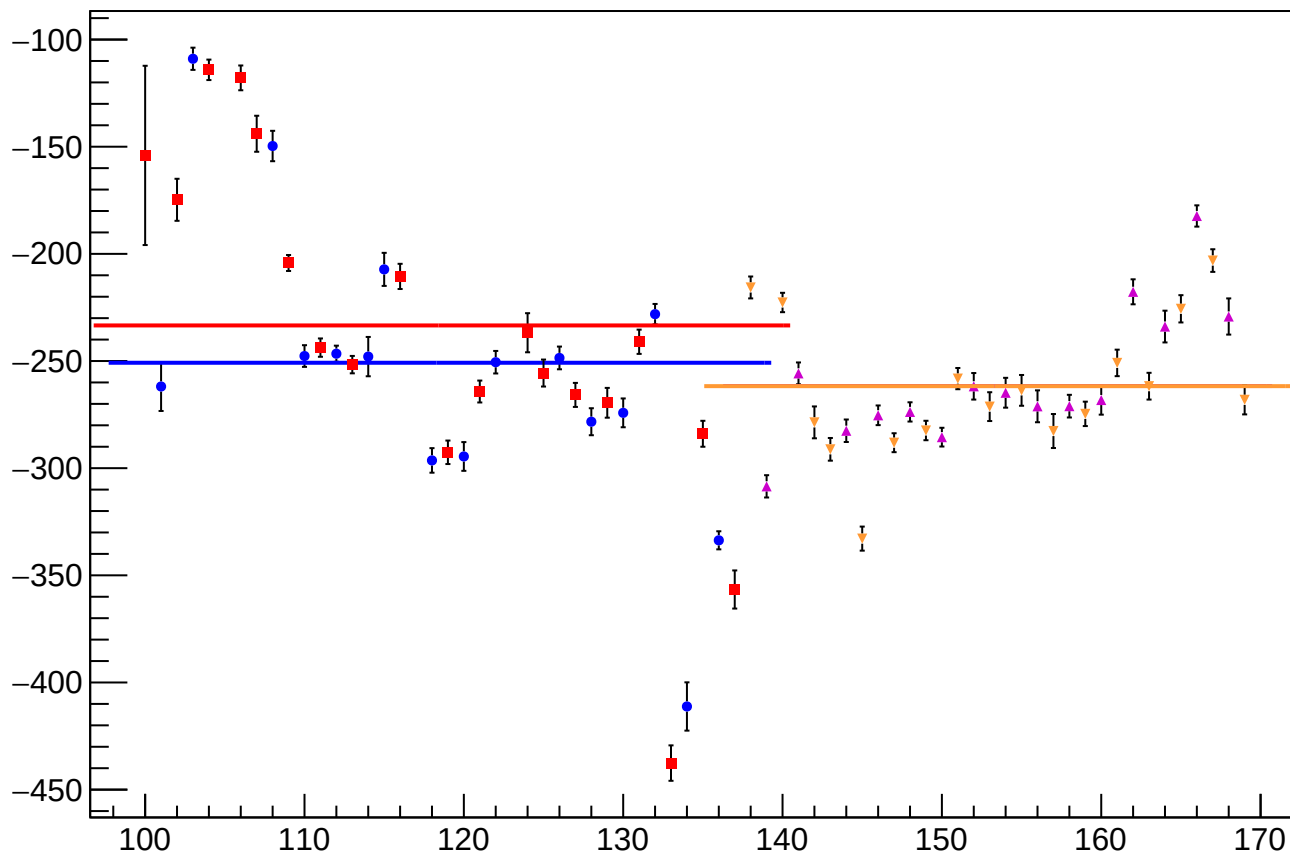
Right: 95.972 $\pm$ 0.048 χ^2 /NDF: 648694.2/34

In: 123.758 $\pm$ 0.041 χ^2 /NDF: 345064.3/30

Out: 109.206 $\pm$ 0.039 χ^2 /NDF: 1141736.5/35

All: 115.978 $\pm$ 0.028 χ^2 /NDF: 1552714.4/66

reg_asym_atr_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -250.812 ± 1.438 $\chi^2/\text{NDF}: 1735.7/15$

Left Out: -261.725 ± 1.366 $\chi^2/\text{NDF}: 583.0/16$

Right Out: -233.396 ± 1.333 $\chi^2/\text{NDF}: 2378.5/18$

Left In: -261.665 ± 1.435 $\chi^2/\text{NDF}: 490.8/14$

Left: -261.697 ± 0.990 $\chi^2/\text{NDF}: 1073.8/31$

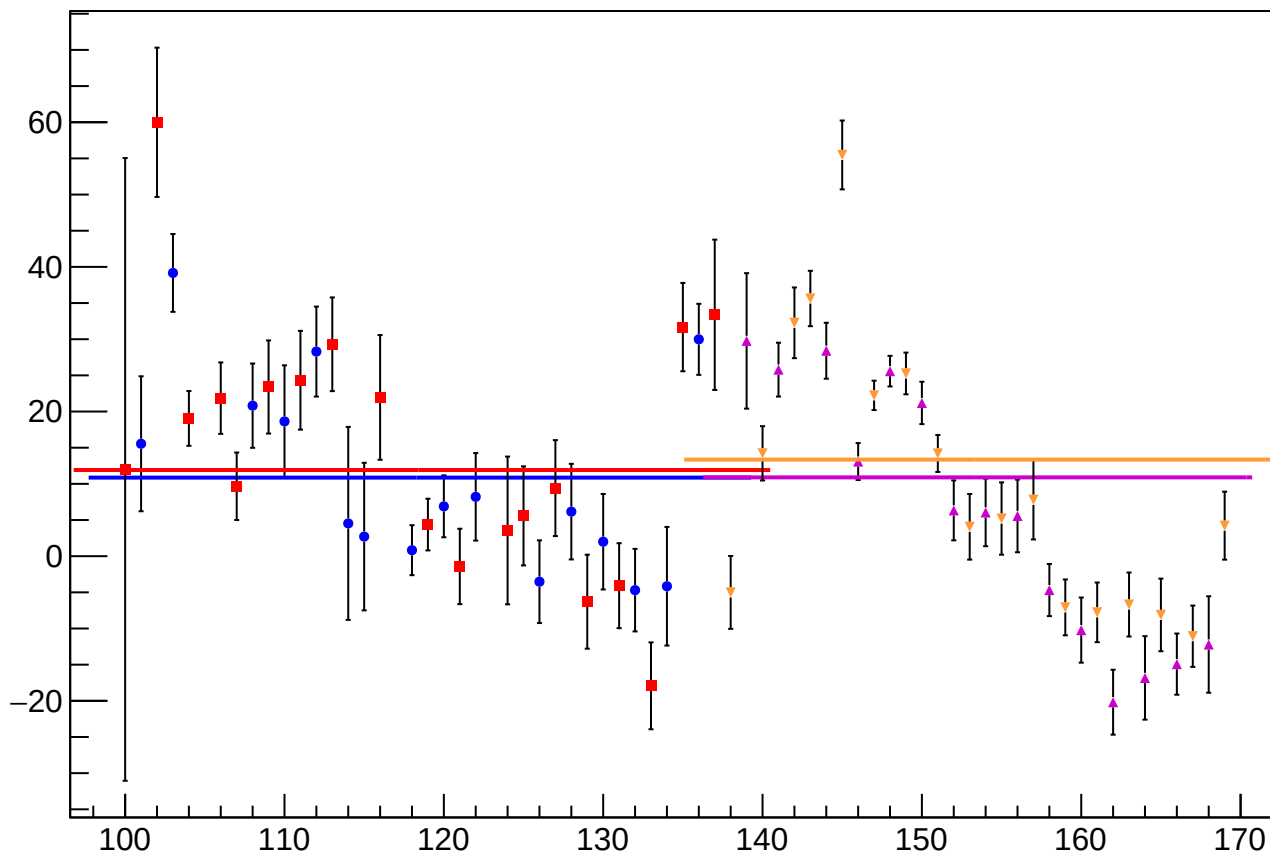
Right: -241.445 ± 0.978 $\chi^2/\text{NDF}: 4193.1/34$

In: -256.249 ± 1.016 $\chi^2/\text{NDF}: 2255.1/30$

Out: -247.213 ± 0.954 $\chi^2/\text{NDF}: 3181.7/35$

All: -251.448 ± 0.696 $\chi^2/\text{NDF}: 5478.8/66$

reg_asym_atr_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.864 $\pm$ 1.471 χ^2 /NDF: 84.7/15

Left Out: 13.355 $\pm$ 0.905 χ^2 /NDF:314.8/16

Right Out: 11.912 $\pm$ 1.368 χ^2 /NDF: 111.9/18

Left In: 10.896 $\pm$ 0.966 χ^2 /NDF:266.3/14

Left: 12.205 $\pm$ 0.661 χ^2 /NDF: 584.5/31

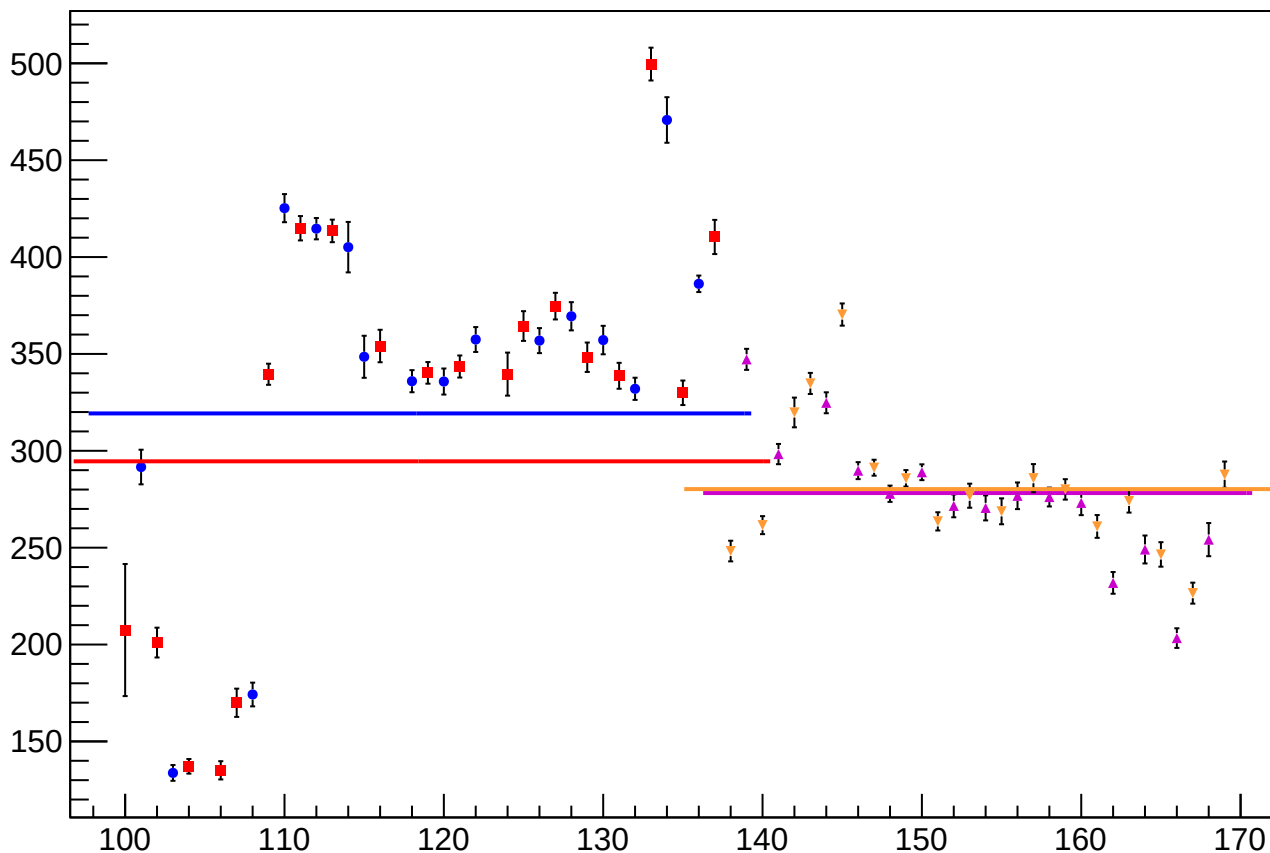
Right: 11.426 $\pm$ 1.001 χ^2 /NDF: 196.9/34

In: 10.886 $\pm$ 0.807 χ^2 /NDF:351.0/30

Out: 12.915 $\pm$ 0.755 χ^2 /NDF:427.5/35

All: 11.969 $\pm$ 0.551 χ^2 /NDF: 781.8/66

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 319.293 $\pm$ 1.586 χ^2 /NDF: 3792.9/15

Left Out: 280.234 $\pm$ 1.333 χ^2 /NDF: 591.6/16

Right Out: 294.567 $\pm$ 1.481 χ^2 /NDF: 5503.2/18

Left In: 278.195 $\pm$ 1.390 χ^2 /NDF: 579.7/14

Left: 279.257 $\pm$ 0.962 χ^2 /NDF: 1172.4/31

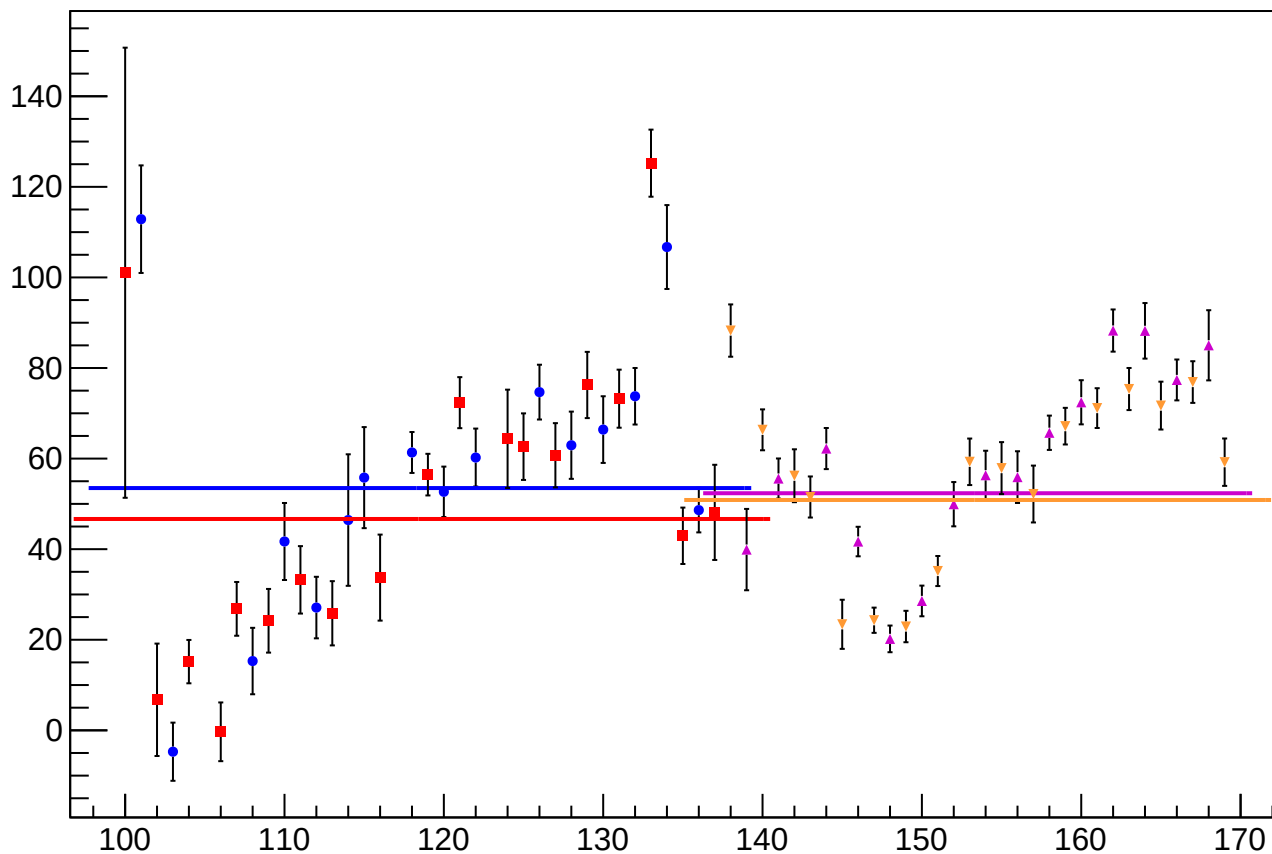
Right: 306.088 $\pm$ 1.083 χ^2 /NDF: 9425.9/34

In: 296.042 $\pm$ 1.045 χ^2 /NDF: 4752.4/30

Out: 286.644 $\pm$ 0.991 χ^2 /NDF: 6146.5/35

All: 291.092 $\pm$ 0.719 χ^2 /NDF: 10941.6/66

reg_asym_atr_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 53.494 $\pm$ 1.699 χ^2 /NDF: 217.2/15

Left Out: 50.862 $\pm$ 1.074 χ^2 /NDF:378.1/16

Right Out: 46.666 $\pm$ 1.593 χ^2 /NDF: 325.6/18

Left In: 52.353 $\pm$ 1.143 χ^2 /NDF:359.3/14

Left: 51.561 $\pm$ 0.783 χ^2 /NDF: 738.3/31

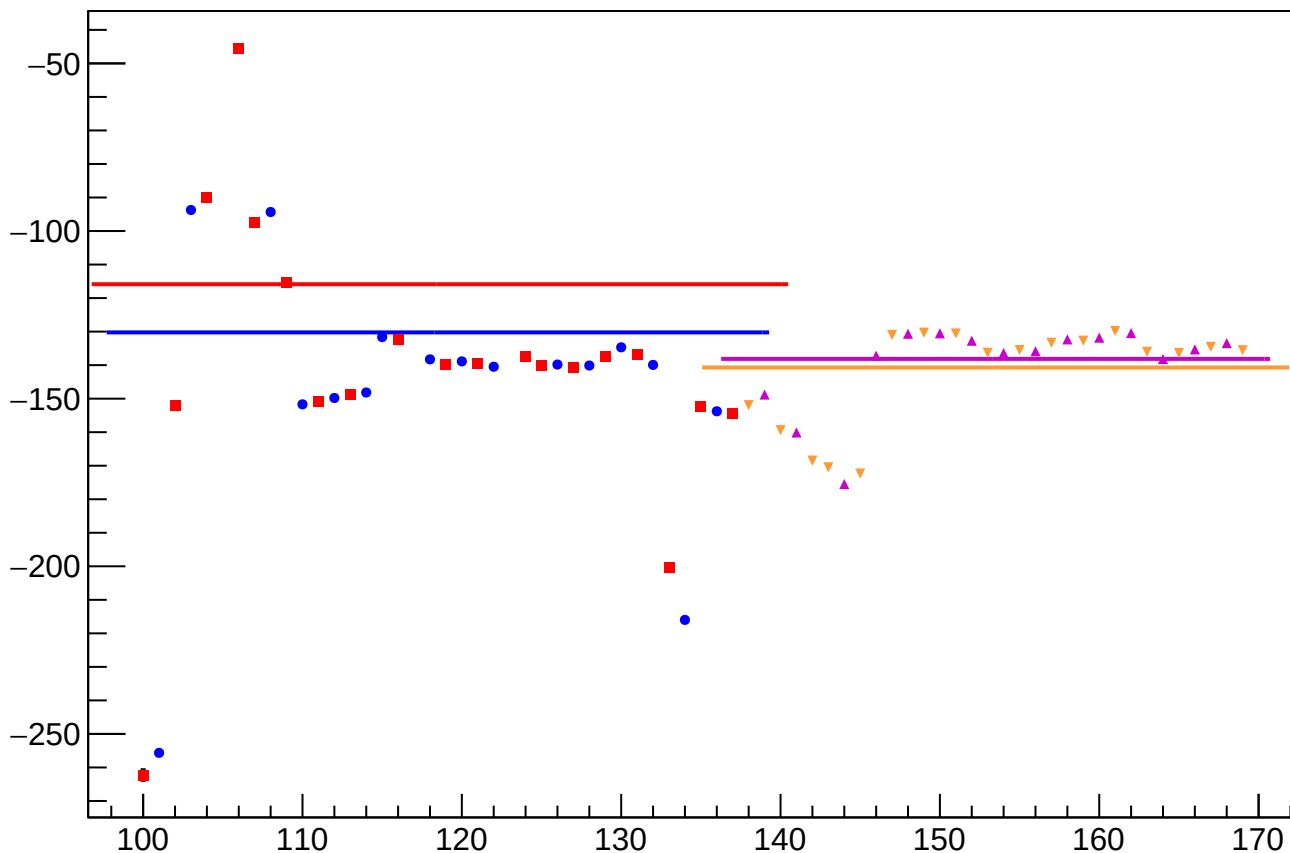
Right: 49.861 $\pm$ 1.162 χ^2 /NDF: 551.4/34

In: 52.708 $\pm$ 0.948 χ^2 /NDF:576.8/30

Out: 49.550 $\pm$ 0.891 χ^2 /NDF:708.5/35

All: 51.031 $\pm$ 0.649 χ^2 /NDF: 1291.2/66

reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -130.236+/-0.091 χ^2/NDF : 174208.5/15

Left Out: -140.687+/-0.051 χ^2/NDF : 73370.4/16

Right Out: -115.865+/-0.086 χ^2/NDF : 205899.4/18

Left In: -138.137+/-0.053 χ^2/NDF : 45990.3/14

Left: -139.454+/-0.037 χ^2/NDF : 120551.0/31

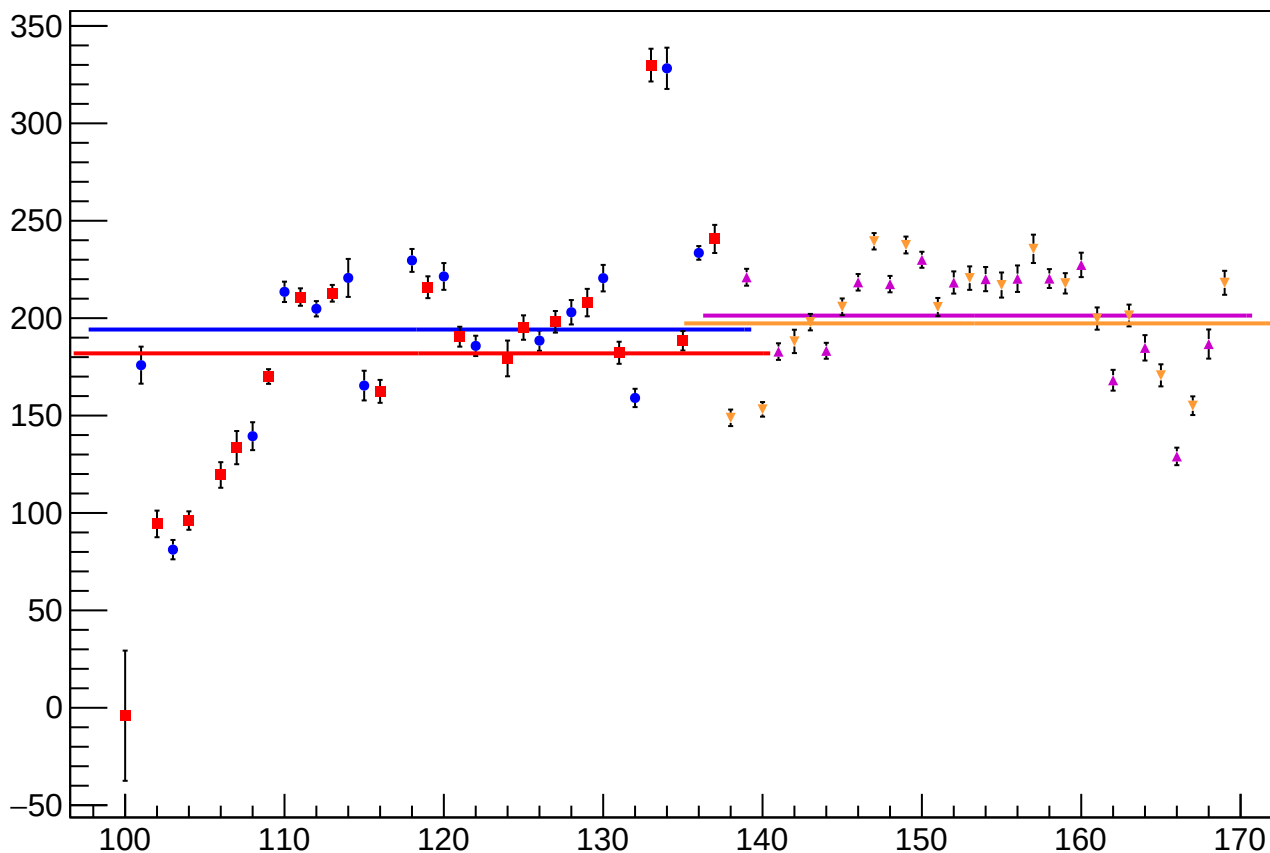
Right: -122.615+/-0.062 χ^2/NDF : 393311.6/34

In: -136.132+/-0.046 χ^2/NDF : 225813.7/30

Out: -134.125+/-0.044 χ^2/NDF : 340955.4/35

All: -135.088+/-0.032 χ^2/NDF : 567764.2/66

reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 194.164 $\pm$ 1.407 χ^2 /NDF: 1035.2/15

Left Out: 197.316 $\pm$ 1.202 χ^2 /NDF:645.0/16

Right Out: 181.928 $\pm$ 1.322 χ^2 /NDF: 1204.8/18

Left In: 201.320 $\pm$ 1.279 χ^2 /NDF:504.1/14

Left: 199.195 $\pm$ 0.876 χ^2 /NDF: 1154.3/31

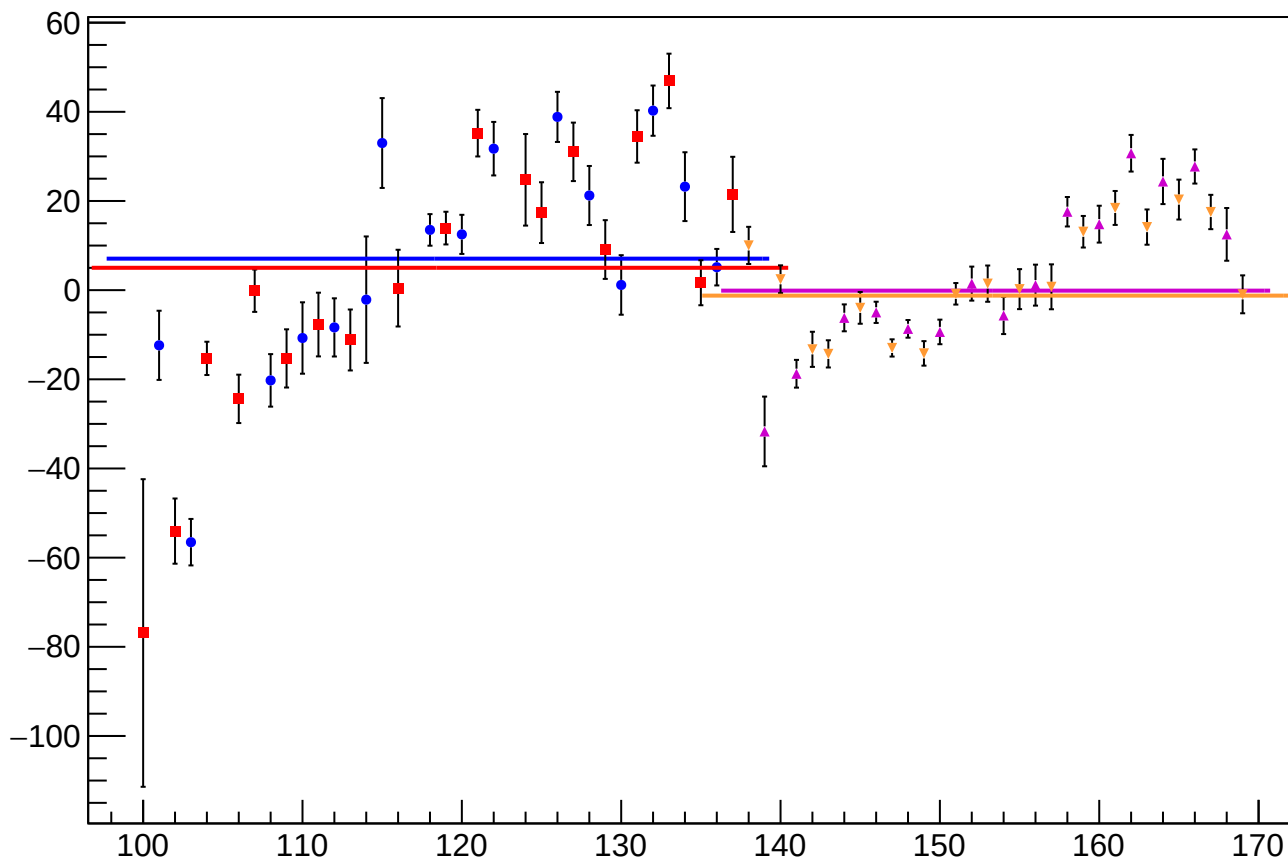
Right: 187.666 $\pm$ 0.963 χ^2 /NDF: 2280.2/34

In: 198.082 $\pm$ 0.946 χ^2 /NDF:1553.4/30

Out: 190.350 $\pm$ 0.889 χ^2 /NDF:1924.0/35

All: 193.977 $\pm$ 0.648 χ^2 /NDF: 3512.9/66

reg_asym_atr_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.066+/-1.443 χ^2/NDF : 292.6/15

Left Out: -1.227+/-0.812 χ^2/NDF : 201.8/16

Right Out: 5.015+/-1.355 χ^2/NDF : 288.5/18

Left In: -0.109+/-0.874 χ^2/NDF : 271.1/14

Left: -0.709+/-0.595 χ^2/NDF : 473.7/31

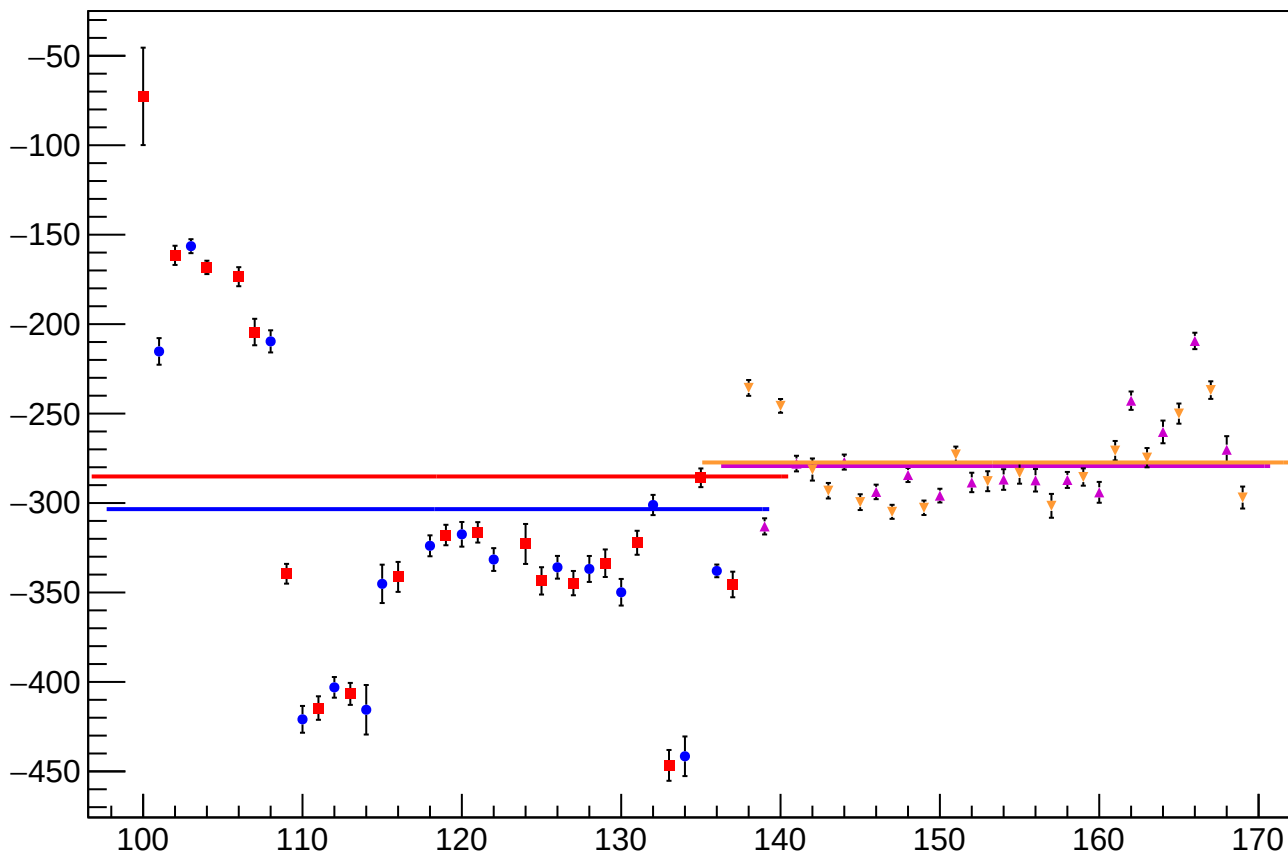
Right: 5.976+/-0.988 χ^2/NDF : 582.2/34

In: 1.815+/-0.747 χ^2/NDF : 581.7/30

Out: 0.422+/-0.696 χ^2/NDF : 505.9/35

All: 1.070+/-0.509 χ^2/NDF : 1089.5/66

reg_asym_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -303.408 ± 1.530 χ^2/NDF : 2785.5/15

Left Out: -277.324 ± 1.179 χ^2/NDF : 408.3/16

Right Out: -285.148 ± 1.451 χ^2/NDF : 3754.8/18

Left In: -279.305 ± 1.243 χ^2/NDF : 398.4/14

Left: -278.263 ± 0.855 χ^2/NDF : 808.0/31

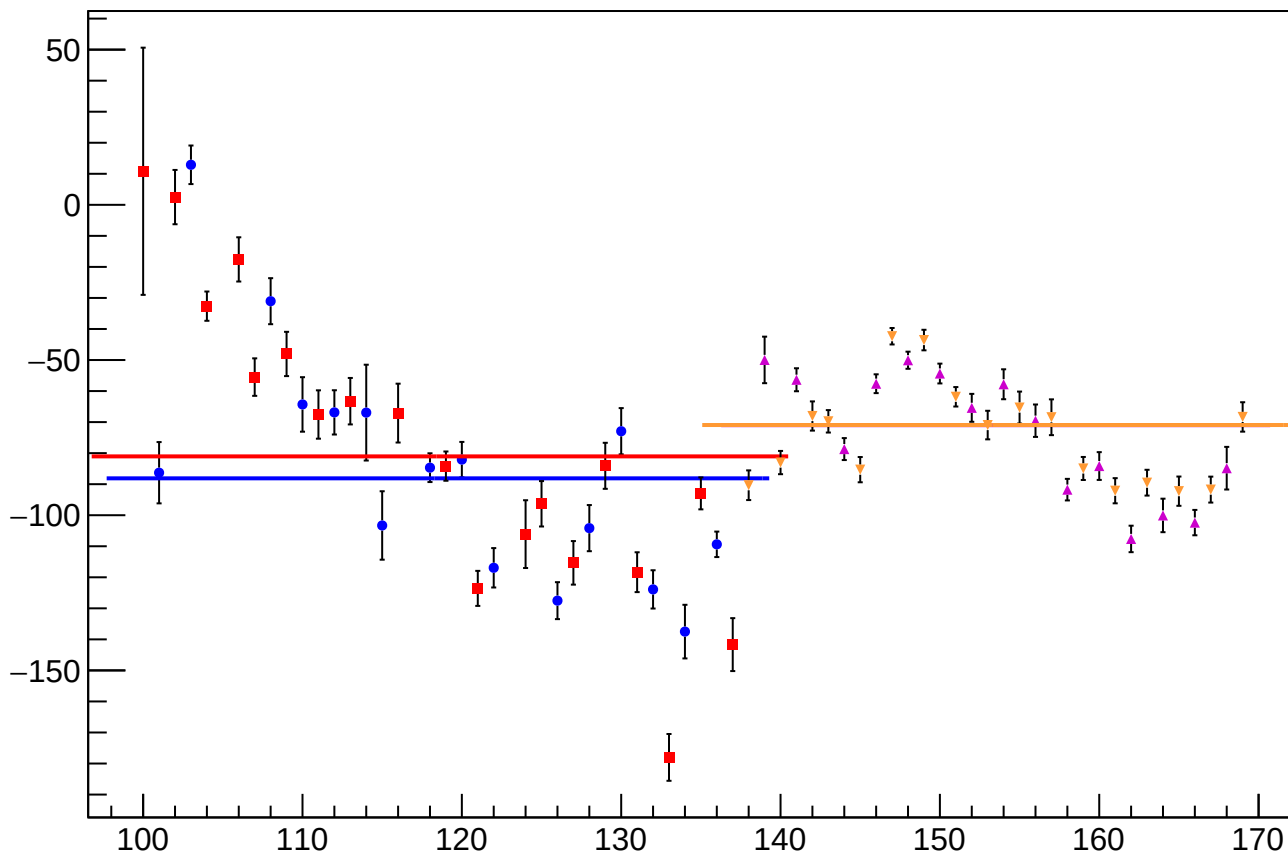
Right: -293.794 ± 1.053 χ^2/NDF : 6615.3/34

In: -288.887 ± 0.965 χ^2/NDF : 3333.4/30

Out: -280.436 ± 0.915 χ^2/NDF : 4180.6/35

All: -284.438 ± 0.664 χ^2/NDF : 7554.4/66

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -88.119 ± 1.655 χ^2/NDF : 511.9/15

Left Out: -70.939 ± 0.960 χ^2/NDF : 341.4/16

Right Out: -81.046 ± 1.569 χ^2/NDF : 677.5/18

Left In: -70.992 ± 1.030 χ^2/NDF : 351.9/14

Left: -70.963 ± 0.702 χ^2/NDF : 693.3/31

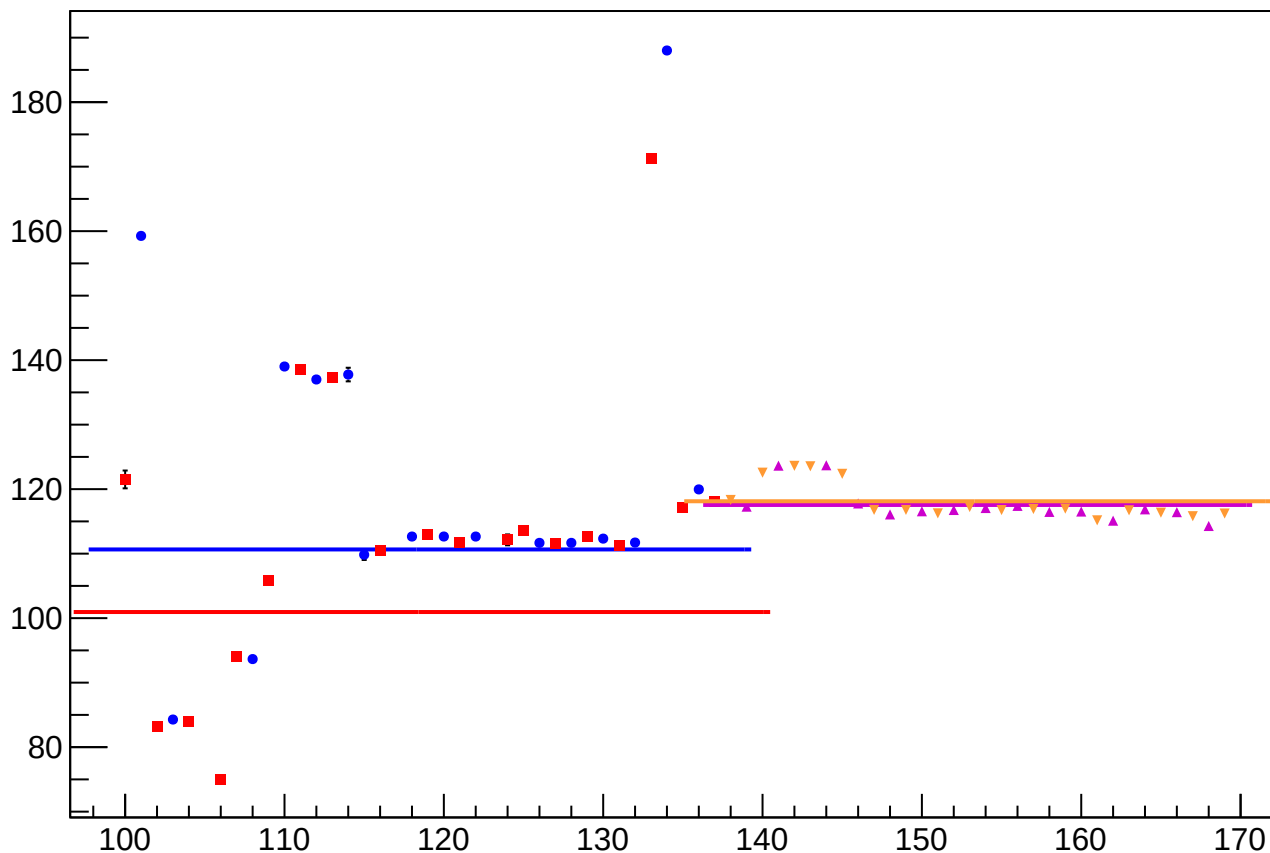
Right: -84.394 ± 1.139 χ^2/NDF : 1199.1/34

In: -75.777 ± 0.875 χ^2/NDF : 941.0/30

Out: -73.691 ± 0.819 χ^2/NDF : 1049.1/35

All: -74.665 ± 0.598 χ^2/NDF : 1993.1/66

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 110.651 $\pm$ 0.086 χ^2 /NDF: 83521.8/15

Left Out: 118.123 $\pm$ 0.046 χ^2 /NDF: 3613.2/16

Right Out: 100.949 $\pm$ 0.081 χ^2 /NDF: 62002.4/18

Left In: 117.549 $\pm$ 0.048 χ^2 /NDF: 2818.7/14

Left: 117.848 $\pm$ 0.033 χ^2 /NDF: 6507.7/31

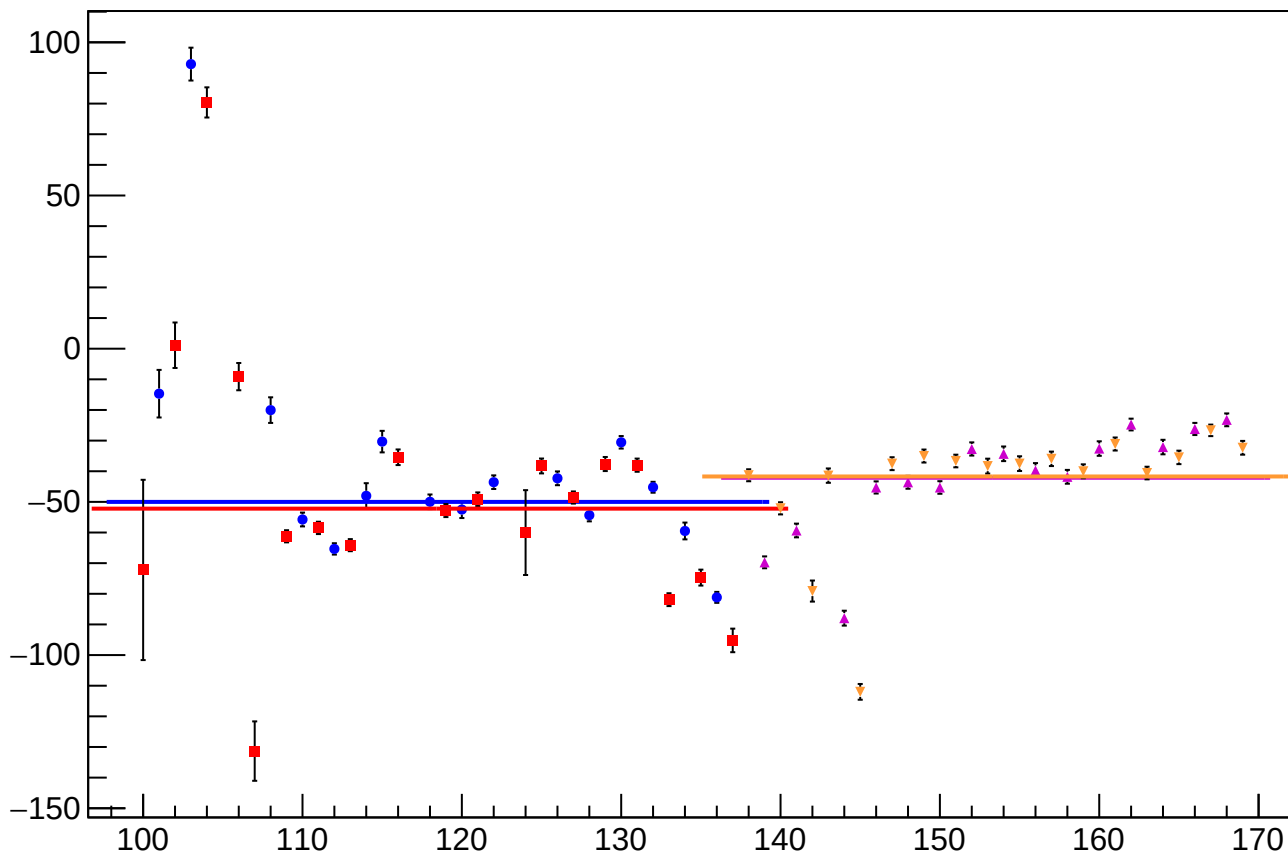
Right: 105.518 $\pm$ 0.059 χ^2 /NDF: 152285.6/34

In: 115.926 $\pm$ 0.042 χ^2 /NDF: 91281.3/30

Out: 113.991 $\pm$ 0.040 χ^2 /NDF: 99777.5/35

All: 114.913 $\pm$ 0.029 χ^2 /NDF: 192190.2/66

reg_asym_at1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -50.008 ± 0.610 $\chi^2/\text{NDF}: 1327.4/15$

Left Out: -41.708 ± 0.537 $\chi^2/\text{NDF}: 1038.3/16$

Right Out: -52.207 ± 0.605 $\chi^2/\text{NDF}: 1570.3/18$

Left In: -42.118 ± 0.558 $\chi^2/\text{NDF}: 914.2/14$

Left: -41.905 ± 0.387 $\chi^2/\text{NDF}: 1952.8/31$

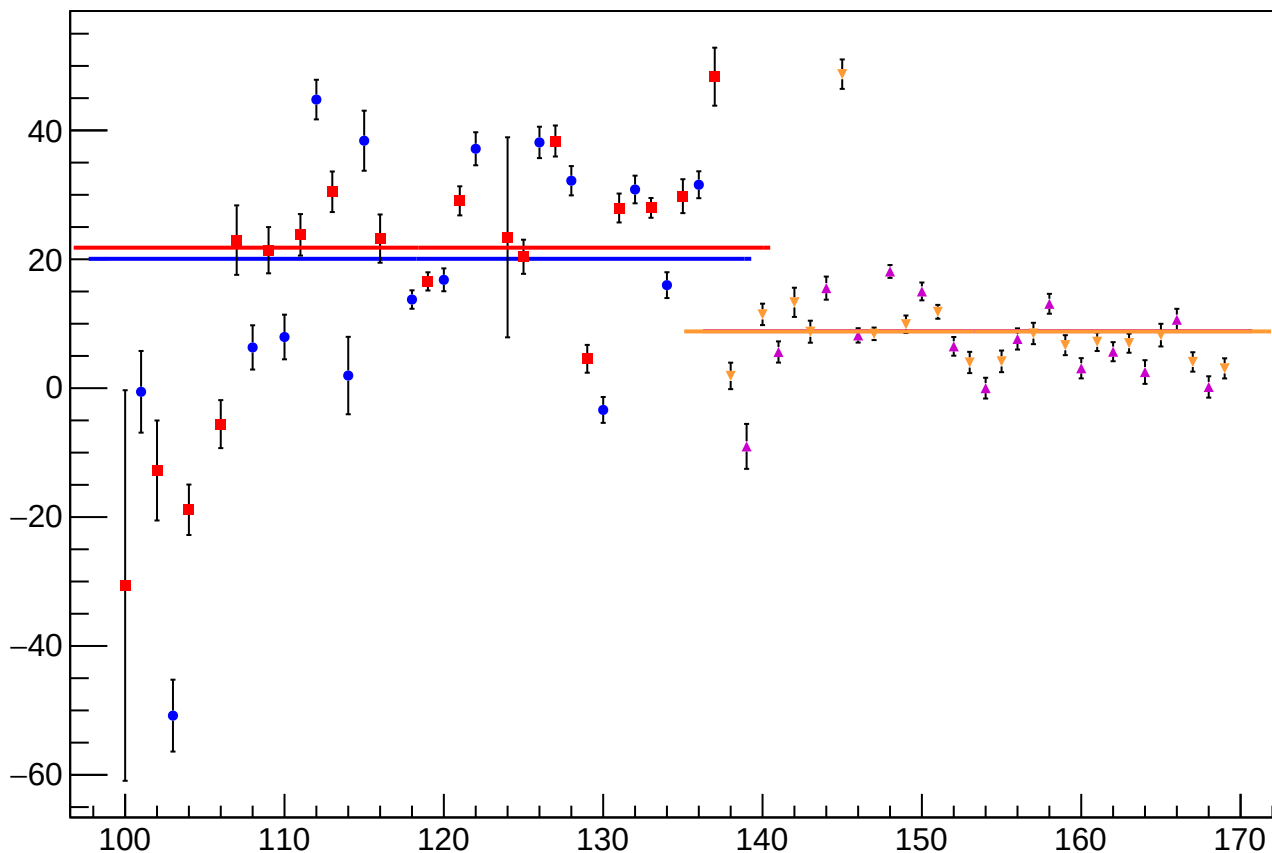
Right: -51.116 ± 0.430 $\chi^2/\text{NDF}: 2904.2/34$

In: -45.709 ± 0.412 $\chi^2/\text{NDF}: 2332.8/30$

Out: -46.332 ± 0.402 $\chi^2/\text{NDF}: 2777.1/35$

All: -46.028 ± 0.287 $\chi^2/\text{NDF}: 5111.0/66$

reg_asym_at1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 20.072 $\pm$ 0.612 χ^2 /NDF: 636.2/15

Left Out: 8.805 $\pm$ 0.367 χ^2 /NDF:376.0/16

Right Out: 21.800 $\pm$ 0.622 χ^2 /NDF: 396.3/18

Left In: 8.852 $\pm$ 0.389 χ^2 /NDF:249.7/14

Left: 8.827 $\pm$ 0.267 χ^2 /NDF: 625.8/31

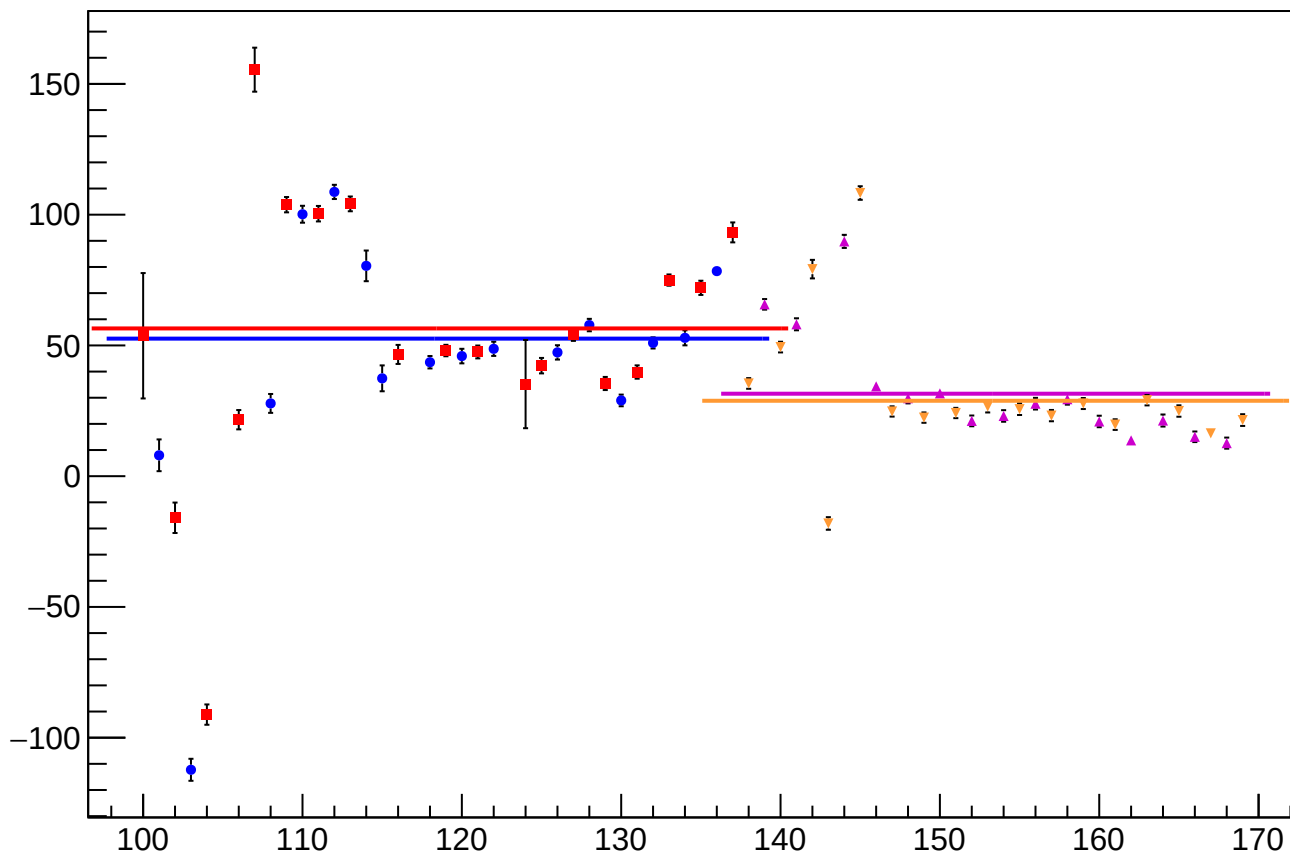
Right: 20.922 $\pm$ 0.436 χ^2 /NDF: 1036.5/34

In: 12.080 $\pm$ 0.328 χ^2 /NDF:1125.4/30

Out: 12.162 $\pm$ 0.316 χ^2 /NDF:1096.1/35

All: 12.123 $\pm$ 0.228 χ^2 /NDF: 2221.5/66

reg_asym_at1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 52.605 $\pm$ 0.696 χ^2 /NDF: 2659.4/15

Left Out: 28.838 $\pm$ 0.523 χ^2 /NDF:1735.0/16

Right Out: 56.499 $\pm$ 0.705 χ^2 /NDF: 2965.5/18

Left In: 31.538 $\pm$ 0.540 χ^2 /NDF:1289.3/14

Left: 30.143 $\pm$ 0.376 χ^2 /NDF: 3037.2/31

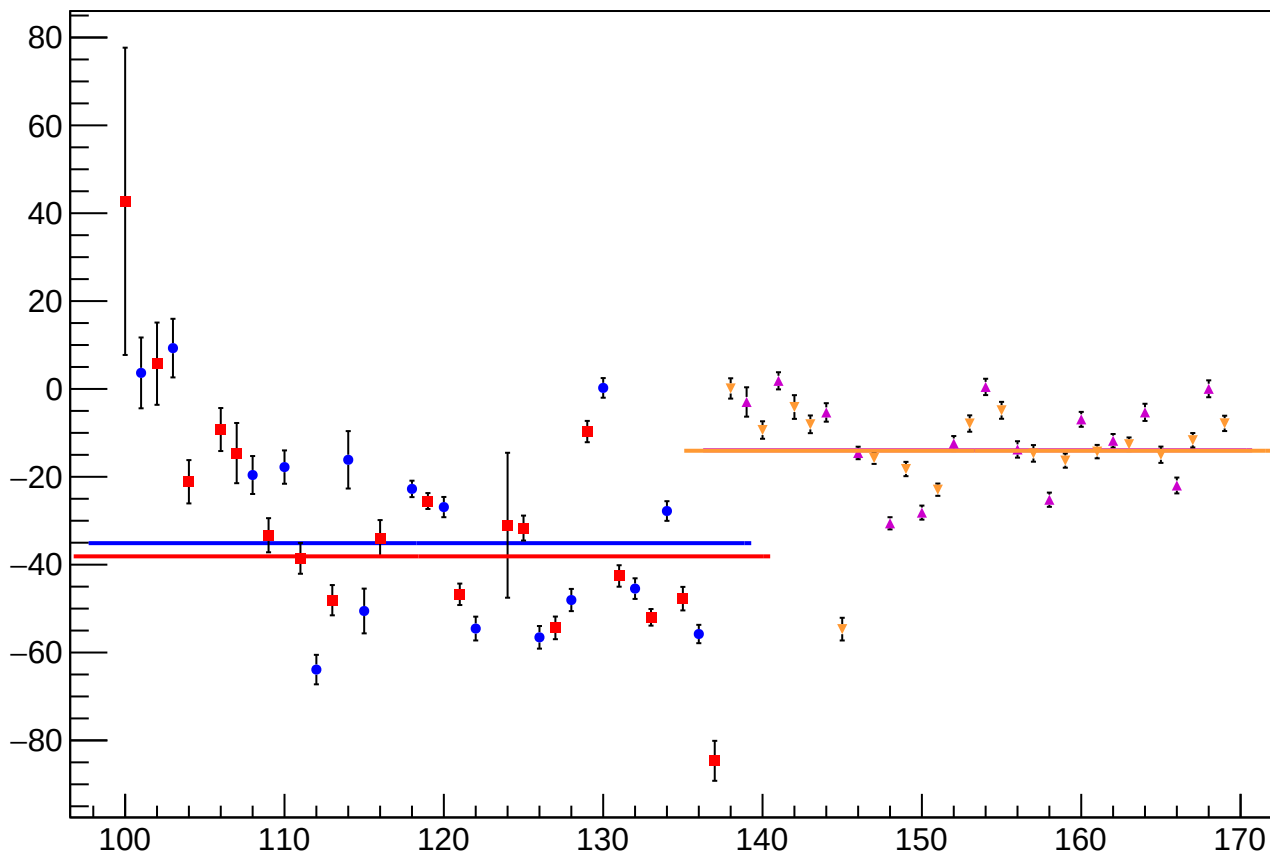
Right: 54.527 $\pm$ 0.496 χ^2 /NDF: 5640.4/34

In: 39.457 $\pm$ 0.427 χ^2 /NDF:4520.0/30

Out: 38.647 $\pm$ 0.420 χ^2 /NDF:5692.8/35

All: 39.045 $\pm$ 0.299 χ^2 /NDF: 10214.7/66

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -35.104 ± 0.700 χ^2/NDF : 773.2/15

Left Out: -14.067 ± 0.427 χ^2/NDF : 412.9/16

Right Out: -38.109 ± 0.714 χ^2/NDF : 514.6/18

Left In: -13.965 ± 0.452 χ^2/NDF : 536.4/14

Left: -14.019 ± 0.311 χ^2/NDF : 949.4/31

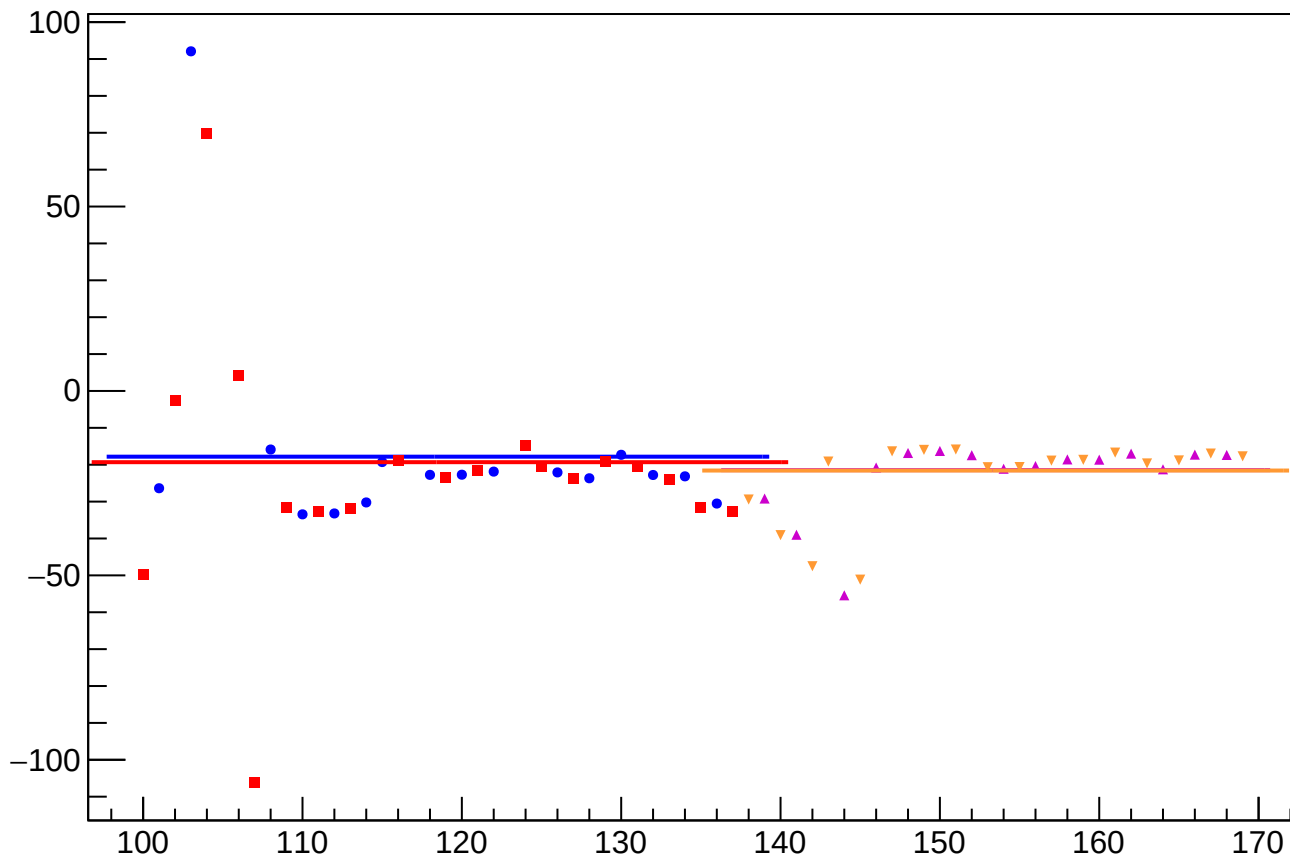
Right: -36.577 ± 0.500 χ^2/NDF : 1296.8/34

In: -20.186 ± 0.380 χ^2/NDF : 1953.1/30

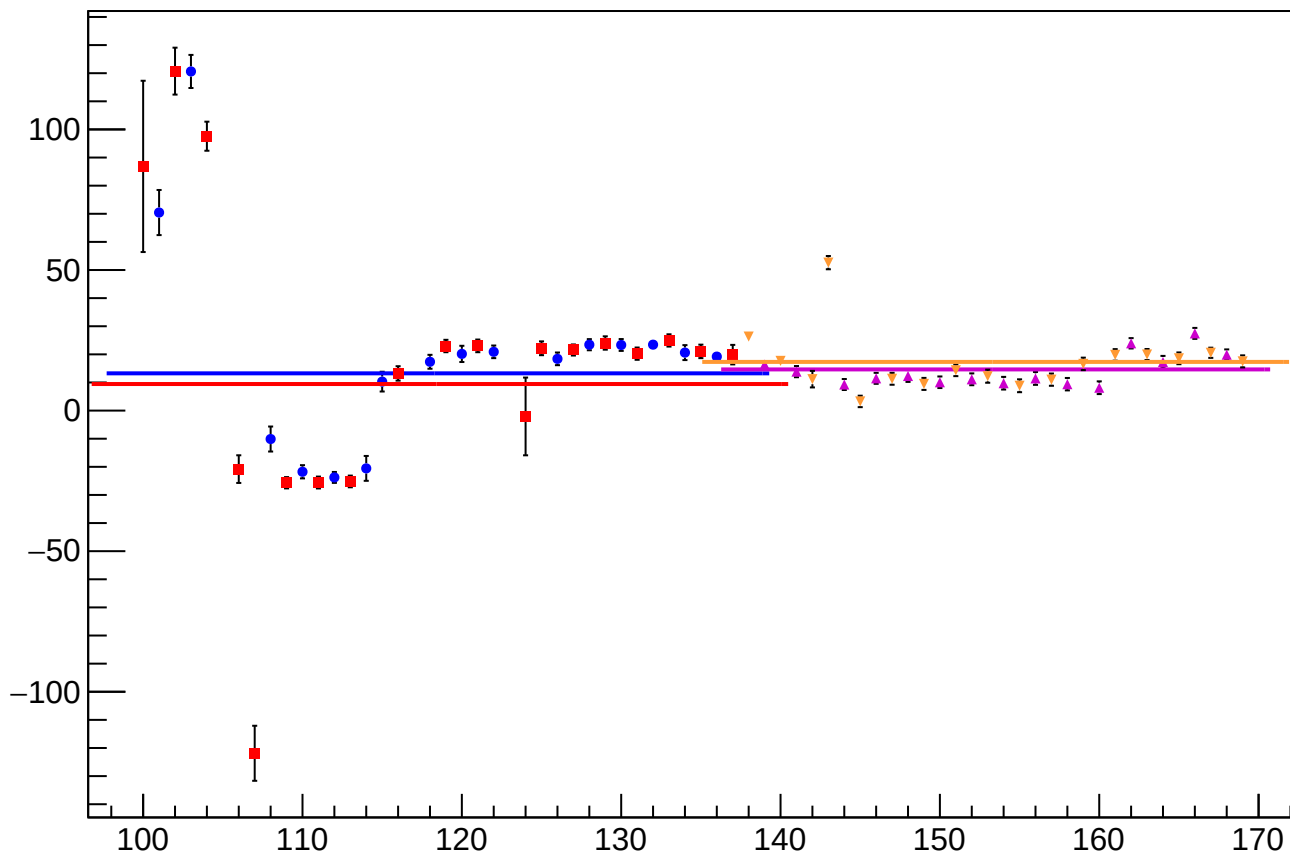
Out: -20.409 ± 0.367 χ^2/NDF : 1762.6/35

All: -20.301 ± 0.264 χ^2/NDF : 3715.9/66

reg_asym_at1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_at1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 13.250+/-0.615 χ^2/NDF : 1182.5/15

Left Out: 17.316+/-0.507 χ^2/NDF : 358.7/16

Right Out: 9.450+/-0.615 χ^2/NDF : 1836.6/18

Left In: 14.643+/-0.524 χ^2/NDF : 118.9/14

Left: 16.023+/-0.365 χ^2/NDF : 491.0/31

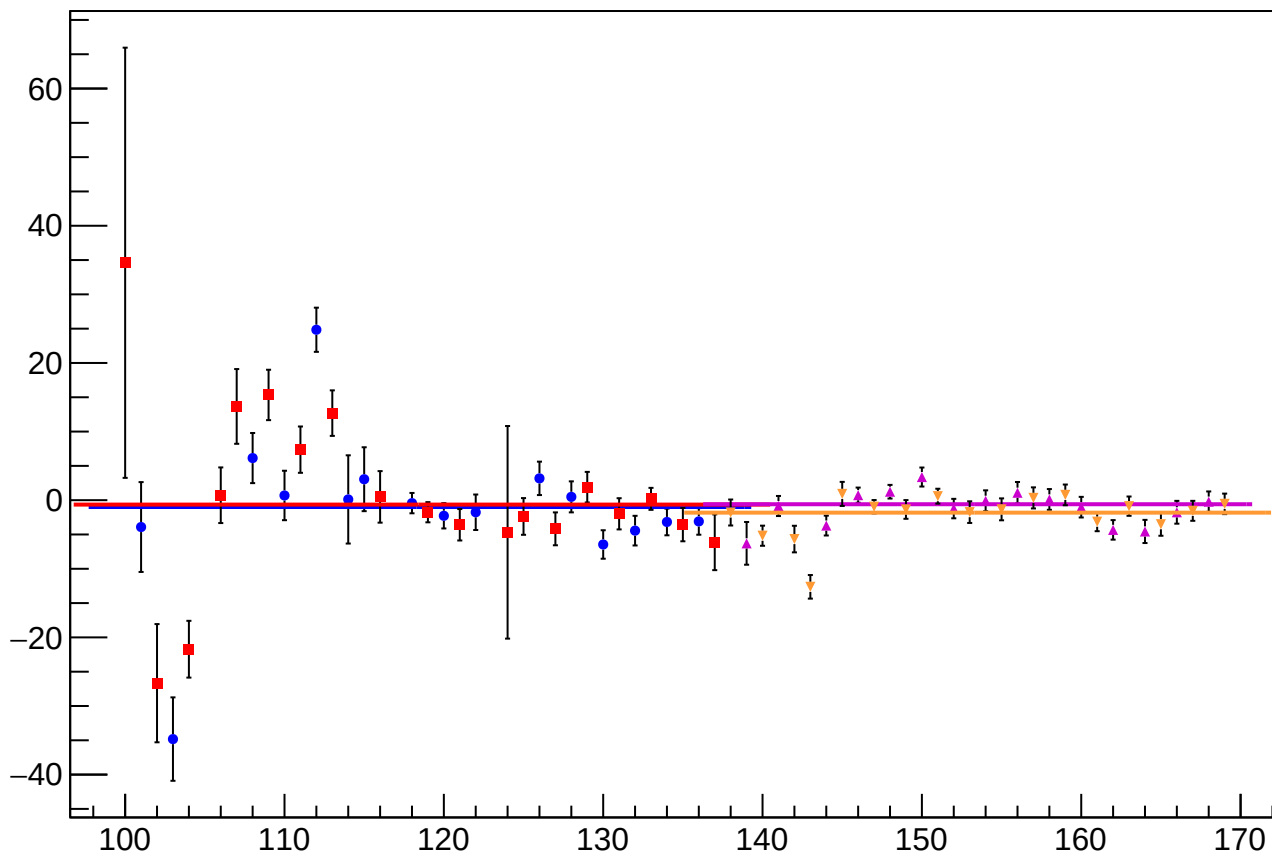
Right: 11.351+/-0.435 χ^2/NDF : 3038.2/34

In: 14.057+/-0.399 χ^2/NDF : 1304.3/30

Out: 14.131+/-0.391 χ^2/NDF : 2292.7/35

All: 14.095+/-0.279 χ^2/NDF : 3597.1/66

reg_asym_at1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.993 ± 0.619 χ^2/NDF : 116.3/15

Left Out: -1.818 ± 0.352 χ^2/NDF : 65.1/16

Right Out: -0.644 ± 0.636 χ^2/NDF : 94.2/18

Left In: -0.591 ± 0.371 χ^2/NDF : 35.7/14

Left: -1.236 ± 0.255 χ^2/NDF : 106.6/31

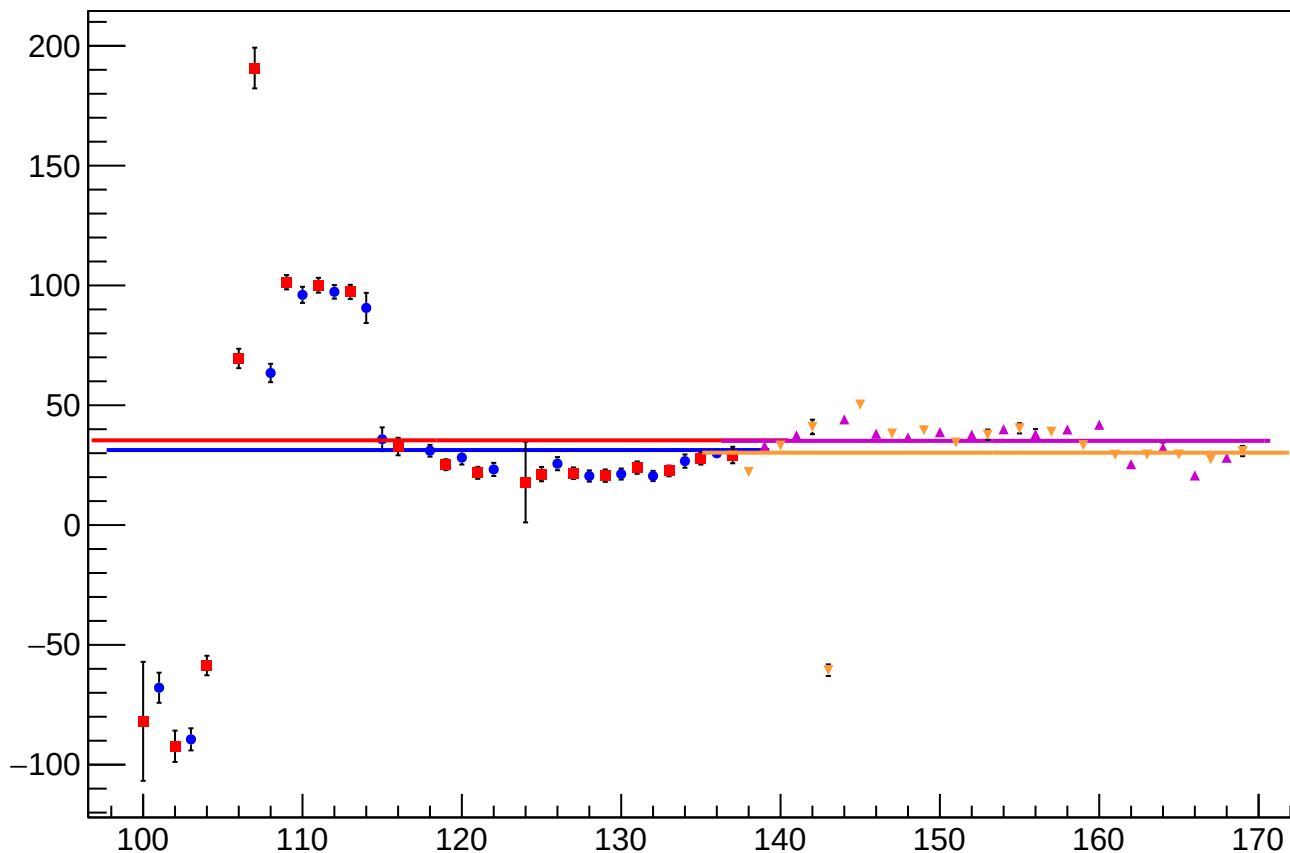
Right: -0.823 ± 0.443 χ^2/NDF : 210.7/34

In: -0.697 ± 0.318 χ^2/NDF : 152.4/30

Out: -1.543 ± 0.308 χ^2/NDF : 162.0/35

All: -1.134 ± 0.221 χ^2/NDF : 318.0/66

reg_asym_at1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 31.310 $\pm$ 0.700 χ^2 /NDF: 2085.9/15

Left Out: 30.206 $\pm$ 0.496 χ^2 /NDF:1628.2/16

Right Out: 35.366 $\pm$ 0.717 χ^2 /NDF: 2897.7/18

Left In: 35.143 $\pm$ 0.510 χ^2 /NDF:152.4/14

Left: 32.604 $\pm$ 0.355 χ^2 /NDF: 1828.8/31

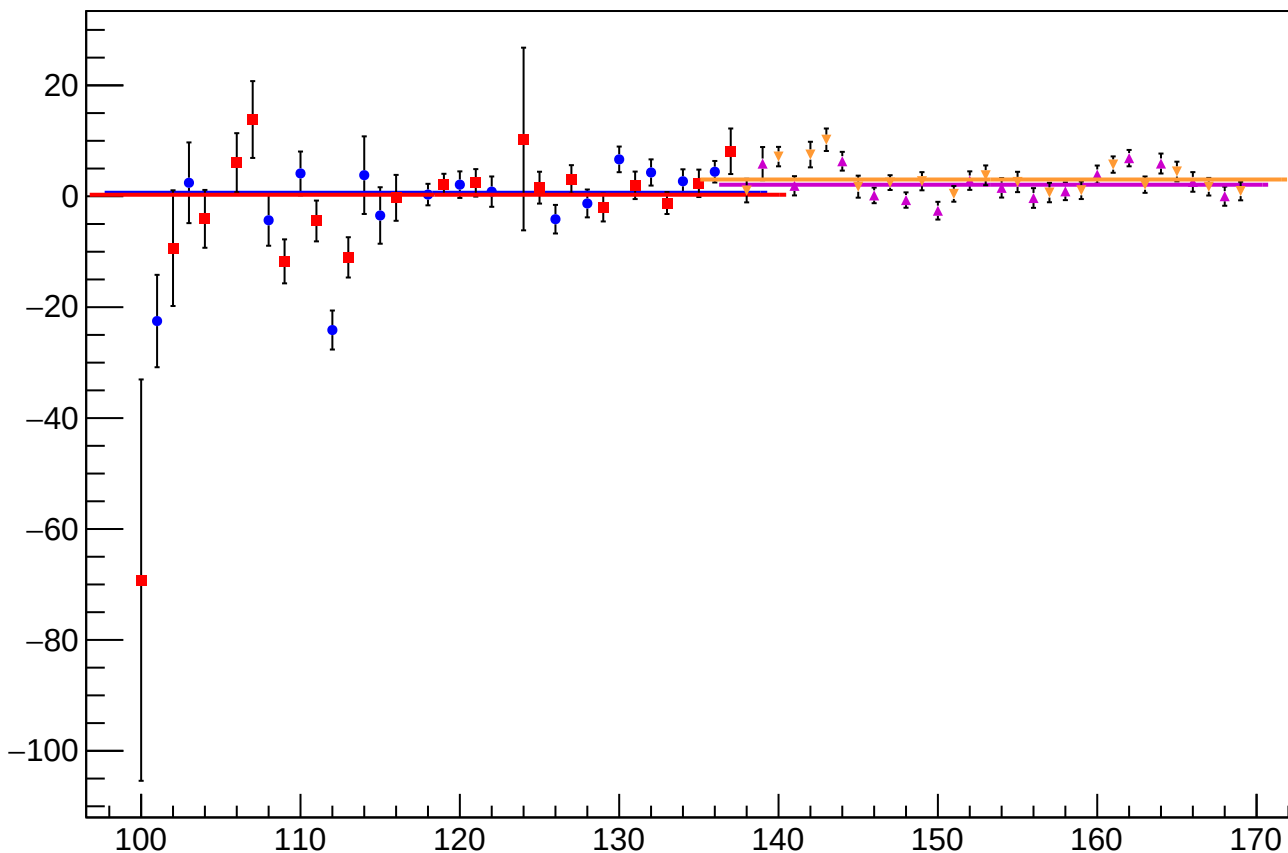
Right: 33.289 $\pm$ 0.501 χ^2 /NDF: 4999.9/34

In: 33.814 $\pm$ 0.412 χ^2 /NDF:2257.8/30

Out: 31.874 $\pm$ 0.408 χ^2 /NDF:4560.9/35

All: 32.834 $\pm$ 0.290 χ^2 /NDF: 6830.0/66

reg_asym_at1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.632 ± 0.705 χ^2/NDF : 78.4/15

Left Out: 3.024 ± 0.408 χ^2/NDF : 36.9/16

Right Out: 0.274 ± 0.726 χ^2/NDF : 40.5/18

Left In: 2.082 ± 0.430 χ^2/NDF : 42.9/14

Left: 2.577 ± 0.296 χ^2/NDF : 82.3/31

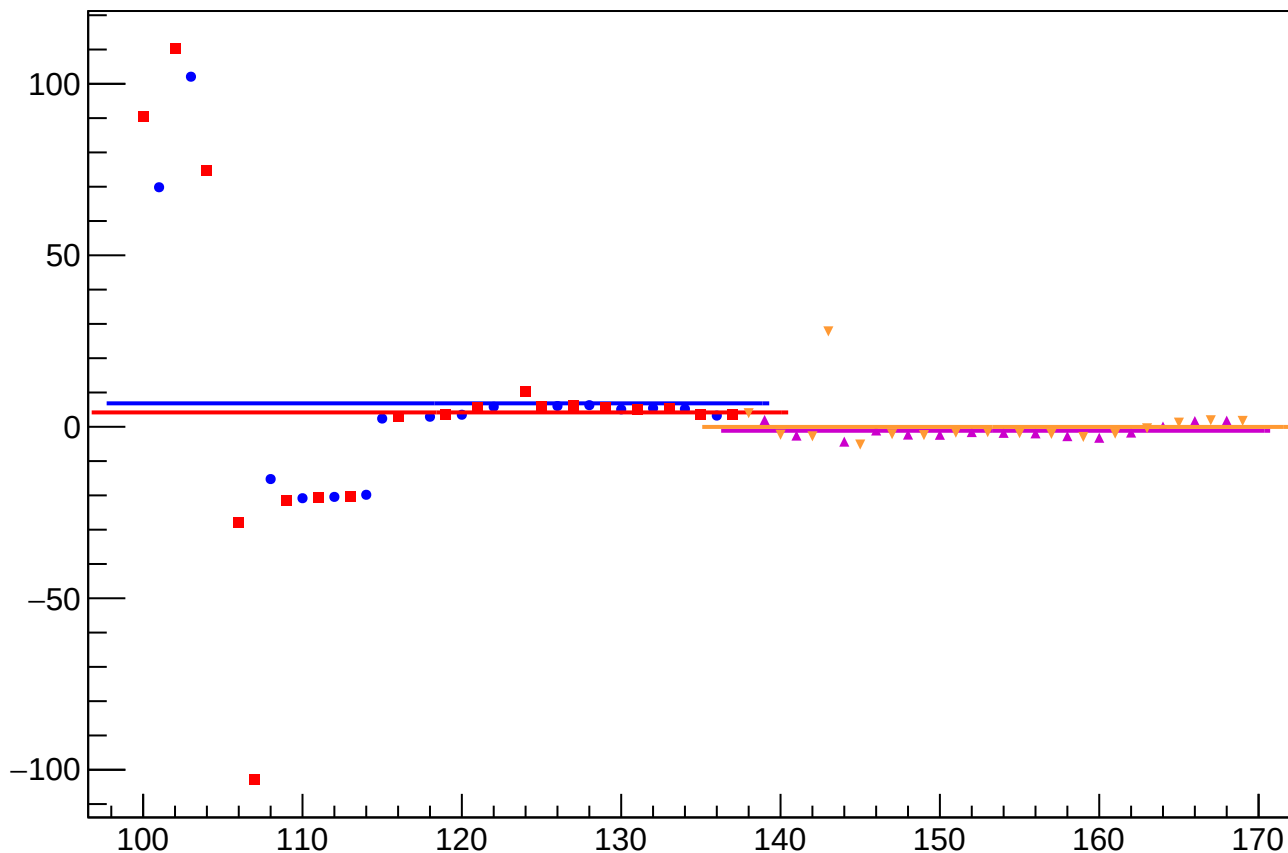
Right: 0.459 ± 0.506 χ^2/NDF : 119.0/34

In: 1.689 ± 0.367 χ^2/NDF : 124.4/30

Out: 2.363 ± 0.356 χ^2/NDF : 88.3/35

All: 2.036 ± 0.255 χ^2/NDF : 214.4/66

reg_asym_at1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 6.838 ± 0.043 $\chi^2/\text{NDF}: 320954.7/15$

Left Out: -0.037 ± 0.019 $\chi^2/\text{NDF}: 92772.6/16$

Right Out: 4.190 ± 0.046 $\chi^2/\text{NDF}: 434546.8/18$

Left In: -1.159 ± 0.019 $\chi^2/\text{NDF}: 9435.9/14$

Left: -0.584 ± 0.013 $\chi^2/\text{NDF}: 103986.2/31$

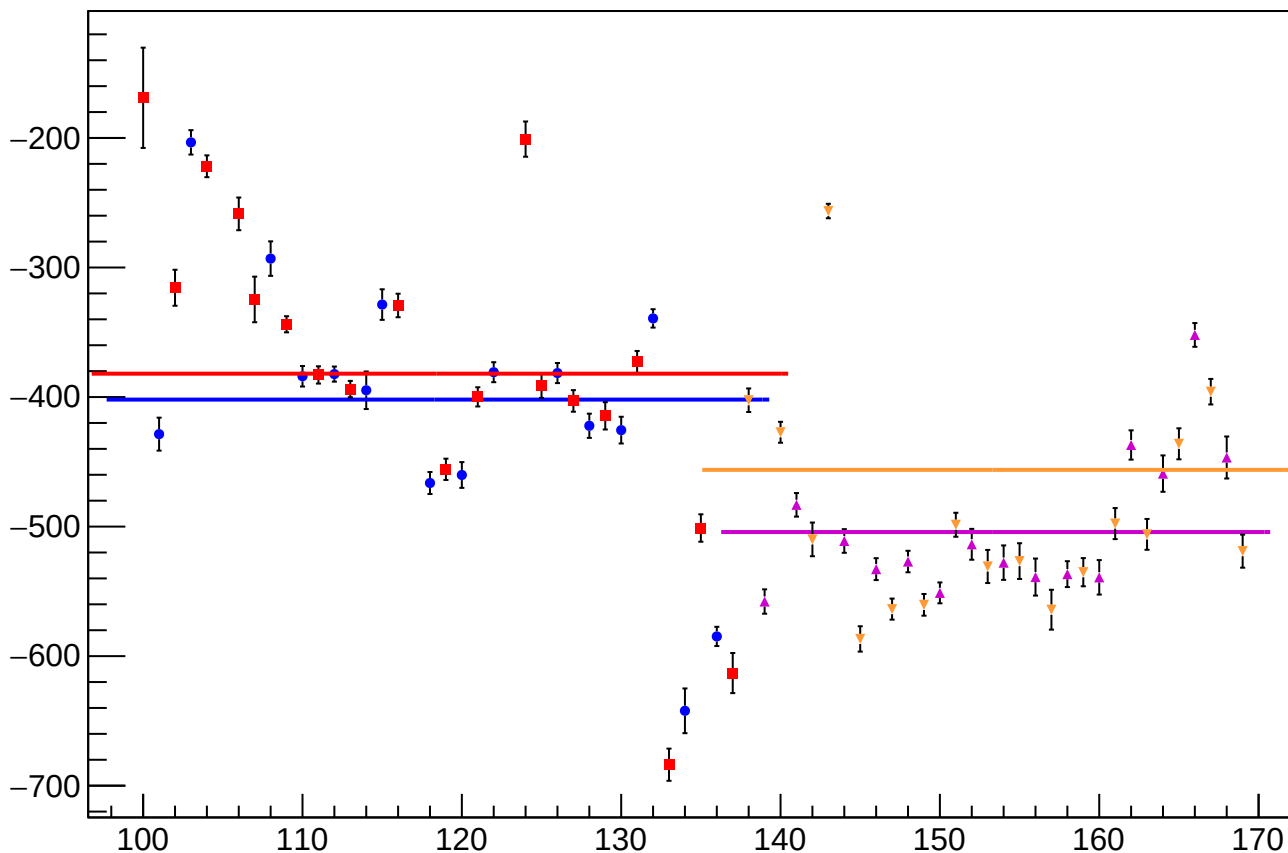
Right: 5.616 ± 0.031 $\chi^2/\text{NDF}: 757263.1/34$

In: 0.160 ± 0.017 $\chi^2/\text{NDF}: 359481.2/30$

Out: 0.549 ± 0.017 $\chi^2/\text{NDF}: 534499.9/35$

All: 0.356 ± 0.012 $\chi^2/\text{NDF}: 894234.0/66$

reg_asym_at2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Left: -477.419 +/- 1.769 χ^2/NDF : 2762.2/31

Right: -391.443 +/- 1.540 χ^2/NDF : 3422.8/34

In: -444.270 +/- 1.712 χ^2/NDF : 2881.0/30

Out: -415.060 +/- 1.581 χ^2/NDF : 4490.4/35

All: -428.509 +/- 1.162 χ^2/NDF : 7528.5/66

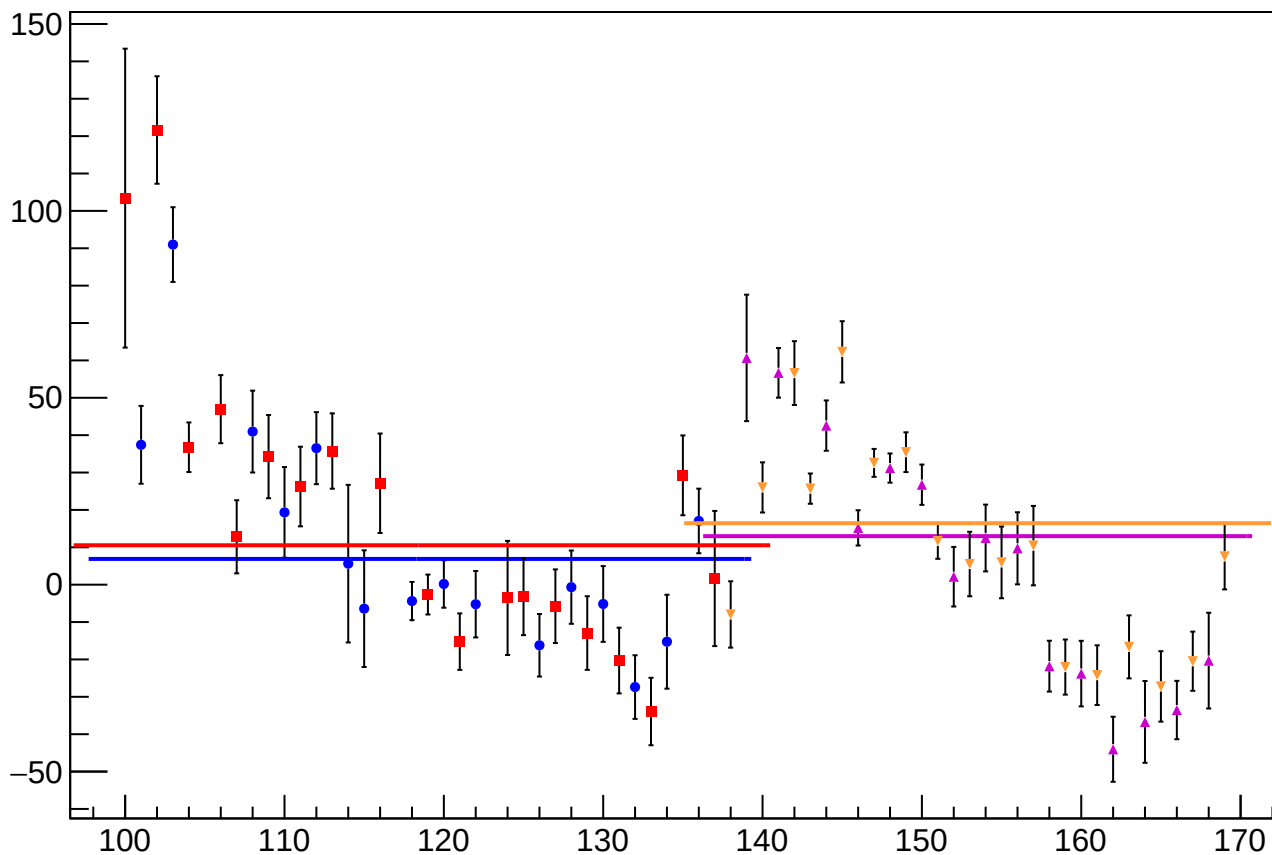
Right In: -401.961 +/- 2.236 χ^2/NDF : 1563.3/15

Left Out: -456.212 +/- 2.368 χ^2/NDF : 2128.1/16

Right Out: -381.949 +/- 2.124 χ^2/NDF : 1817.4/18

Left In: -504.196 +/- 2.661 χ^2/NDF : 452.6/14

reg_asym_at2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 6.889 ± 2.264 χ^2/NDF : 138.4/15

Left Out: 16.449 ± 1.587 χ^2/NDF : 216.6/16

Right Out: 10.544 ± 2.197 χ^2/NDF : 180.0/18

Left In: 12.981 ± 1.794 χ^2/NDF : 250.6/14

Left: 14.926 ± 1.189 χ^2/NDF : 469.3/31

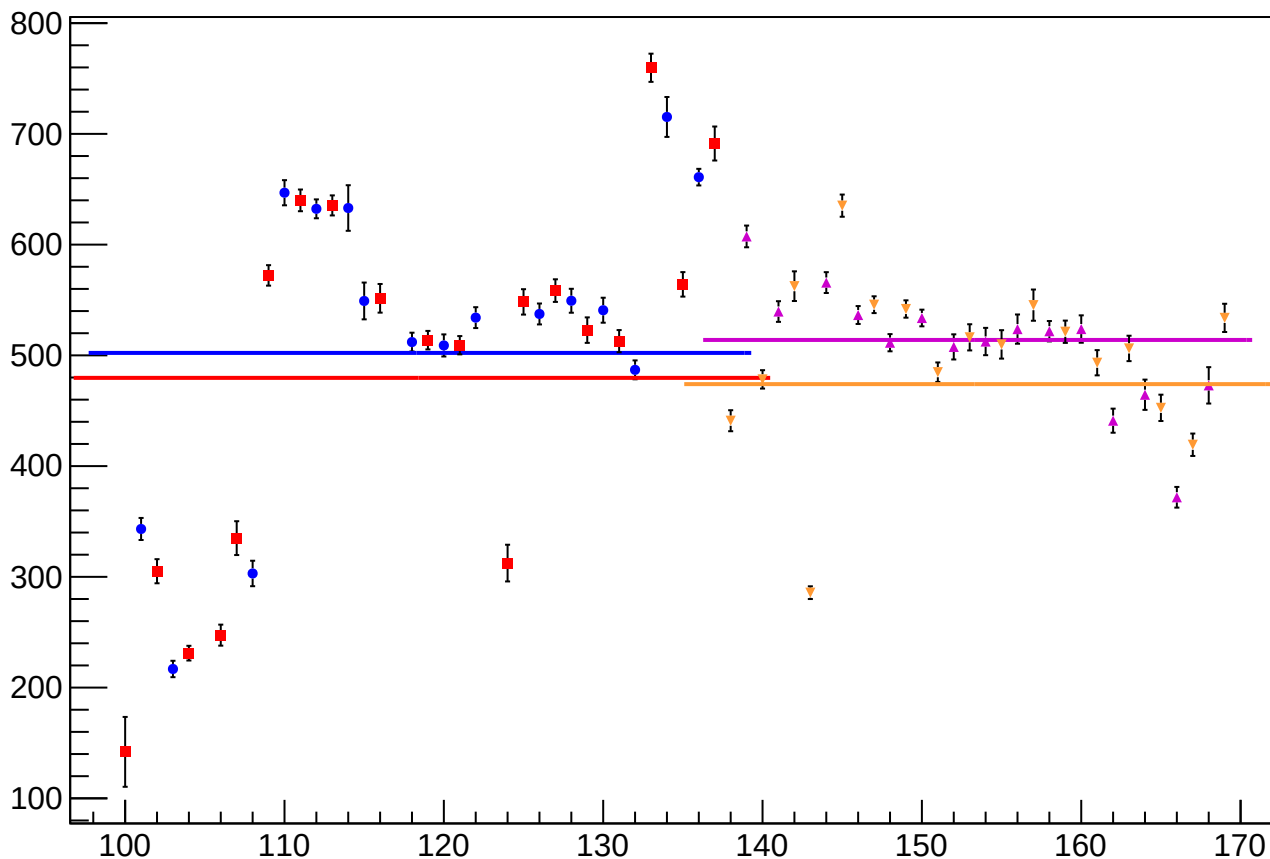
Right: 8.772 ± 1.577 χ^2/NDF : 319.8/34

In: 10.633 ± 1.406 χ^2/NDF : 393.5/30

Out: 14.423 ± 1.287 χ^2/NDF : 401.4/35

All: 12.695 ± 0.949 χ^2/NDF : 798.8/66

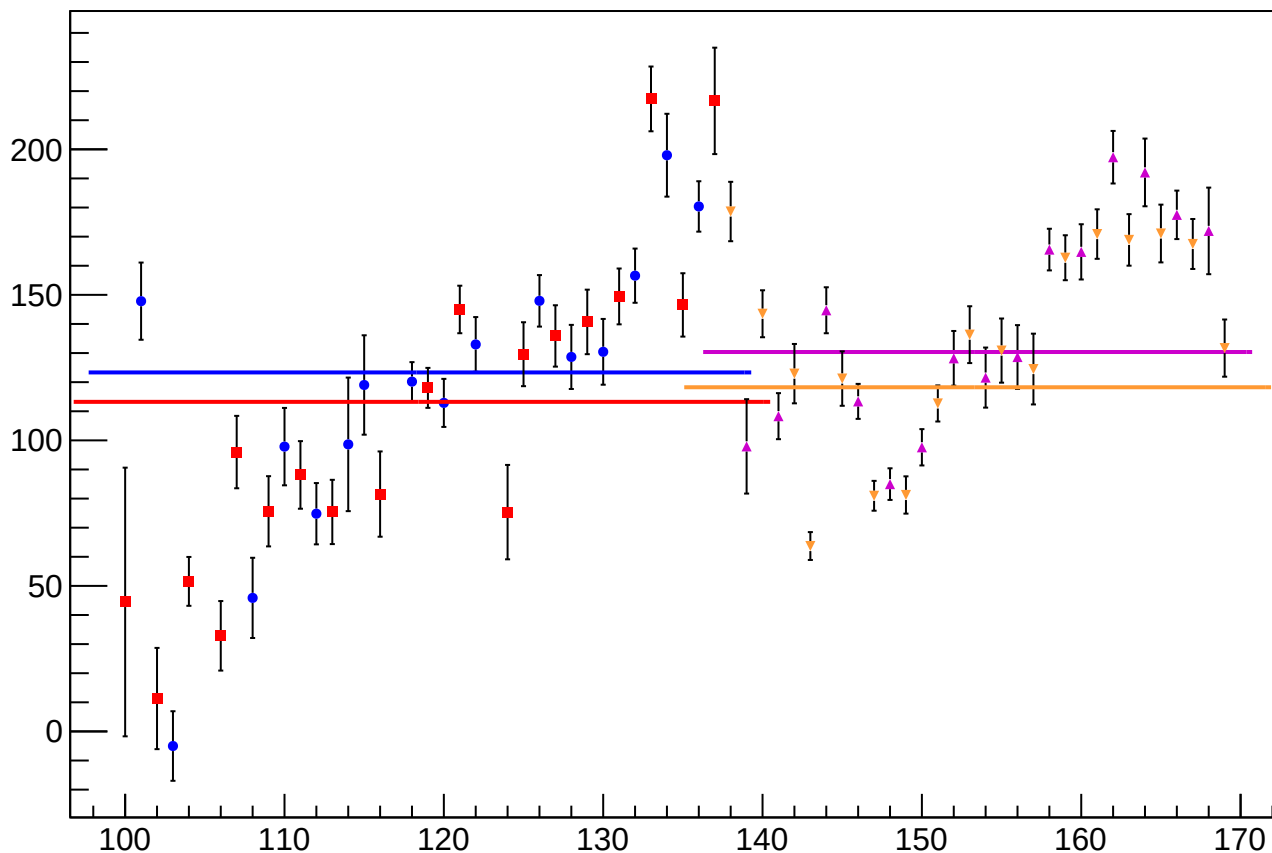
reg_asym_at2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 502.213 $\pm$ 2.493 χ^2/NDF : 3135.2/15
 Left Out: 474.030 $\pm$ 2.328 χ^2/NDF :1689.1/16
 Right Out: 479.679 $\pm$ 2.399 χ^2/NDF : 4138.5/18
 Left In: 513.921 $\pm$ 2.581 χ^2/NDF :441.3/14

Left: 491.928 $\pm$ 1.729 χ^2/NDF : 2262.1/31
 Right: 490.515 $\pm$ 1.729 χ^2/NDF : 7316.1/34
 In: 507.865 $\pm$ 1.793 χ^2/NDF :3587.2/30
 Out: 476.769 $\pm$ 1.671 χ^2/NDF :5830.4/35
 All: 491.222 $\pm$ 1.222 χ^2/NDF : 9578.6/66

reg_asym_at2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 123.344 $\pm$ 2.627 χ^2 /NDF: 271.4/15

Left Out: 118.247 $\pm$ 1.887 χ^2 /NDF:434.4/16

Right Out: 113.235 $\pm$ 2.545 χ^2 /NDF: 345.8/18

Left In: 130.361 $\pm$ 2.126 χ^2 /NDF:281.4/14

Left: 123.584 $\pm$ 1.411 χ^2 /NDF: 733.9/31

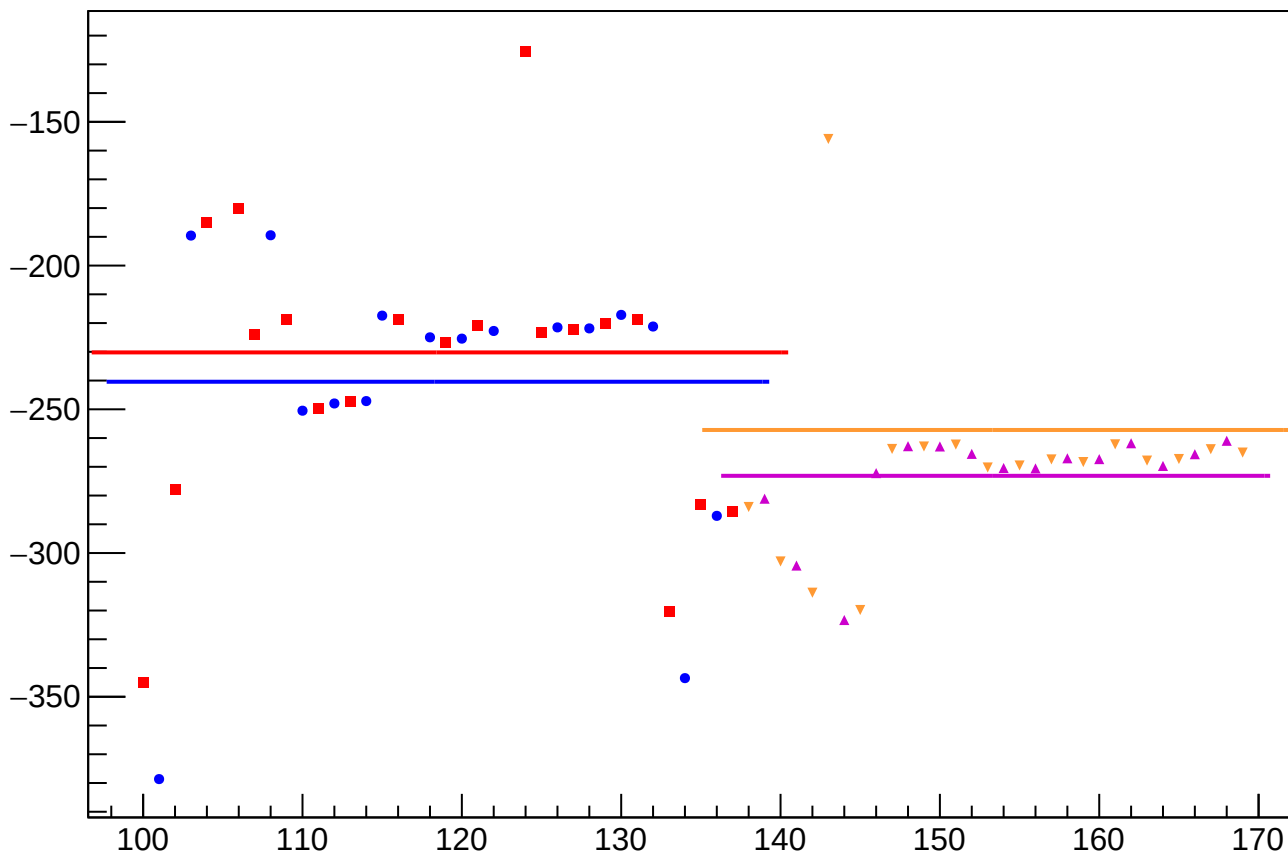
Right: 118.129 $\pm$ 1.828 χ^2 /NDF: 624.8/34

In: 127.584 $\pm$ 1.652 χ^2 /NDF:557.0/30

Out: 116.469 $\pm$ 1.516 χ^2 /NDF:782.6/35

All: 121.547 $\pm$ 1.117 χ^2 /NDF: 1364.2/66

reg_asym_at2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -240.411+/-0.151 χ^2/NDF : 134152.1/15

Left Out: -257.188+/-0.091 χ^2/NDF :240788.9/16

Right Out: -230.207+/-0.146 χ^2/NDF : 83431.4/18

Left In: -273.136+/-0.099 χ^2/NDF :26214.4/14

Left: -264.477+/-0.067 χ^2/NDF : 281078.3/31

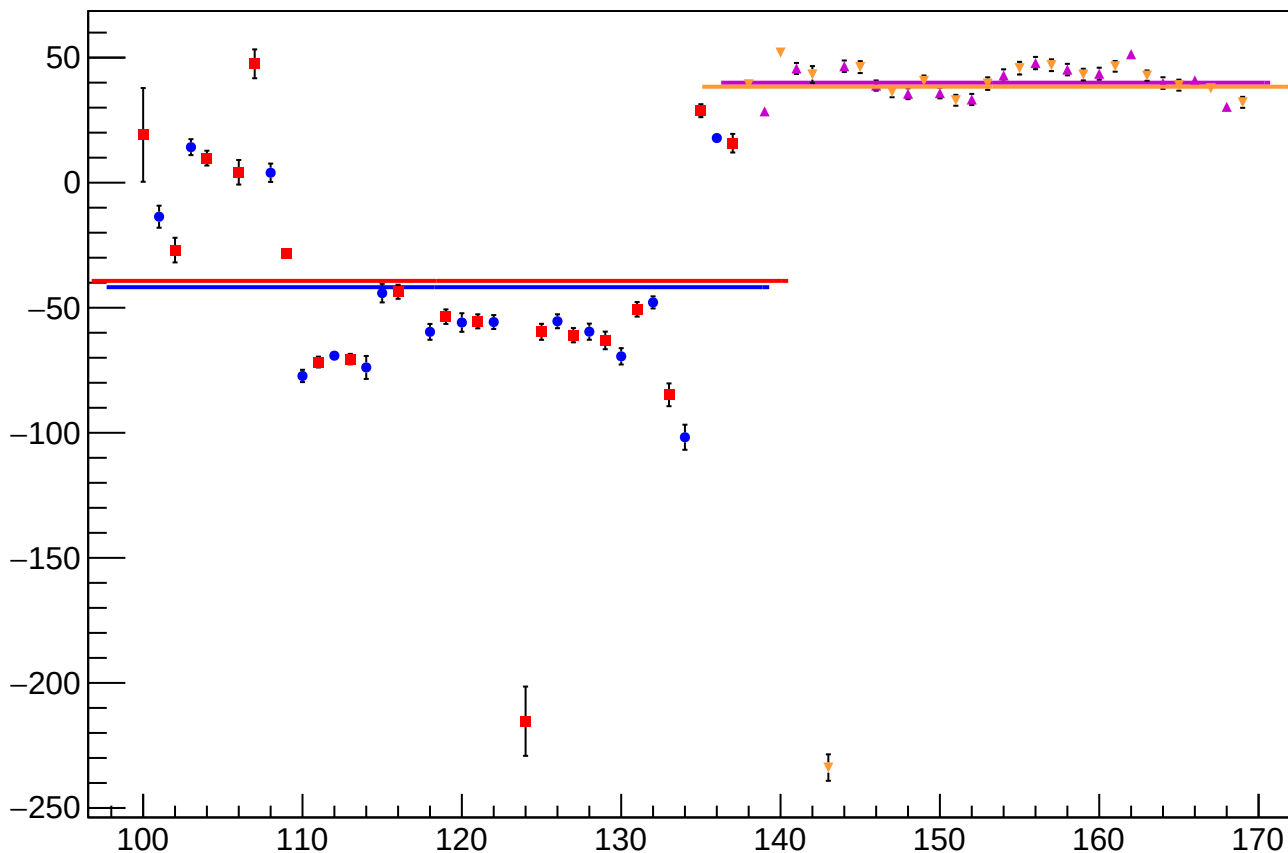
Right: -235.167+/-0.105 χ^2/NDF : 219942.1/34

In: -263.255+/-0.083 χ^2/NDF :193321.0/30

Out: -249.691+/-0.077 χ^2/NDF :348715.7/35

All: -256.004+/-0.056 χ^2/NDF : 556396.9/66

reg_asym_at2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -41.788 ± 0.723 χ^2/NDF : 2405.5/15

Left Out: 38.369 ± 0.551 χ^2/NDF : 2771.7/16

Right Out: -39.263 ± 0.680 χ^2/NDF : 2478.3/18

Left In: 39.977 ± 0.558 χ^2/NDF : 145.8/14

Left: 39.162 ± 0.392 χ^2/NDF : 2921.8/31

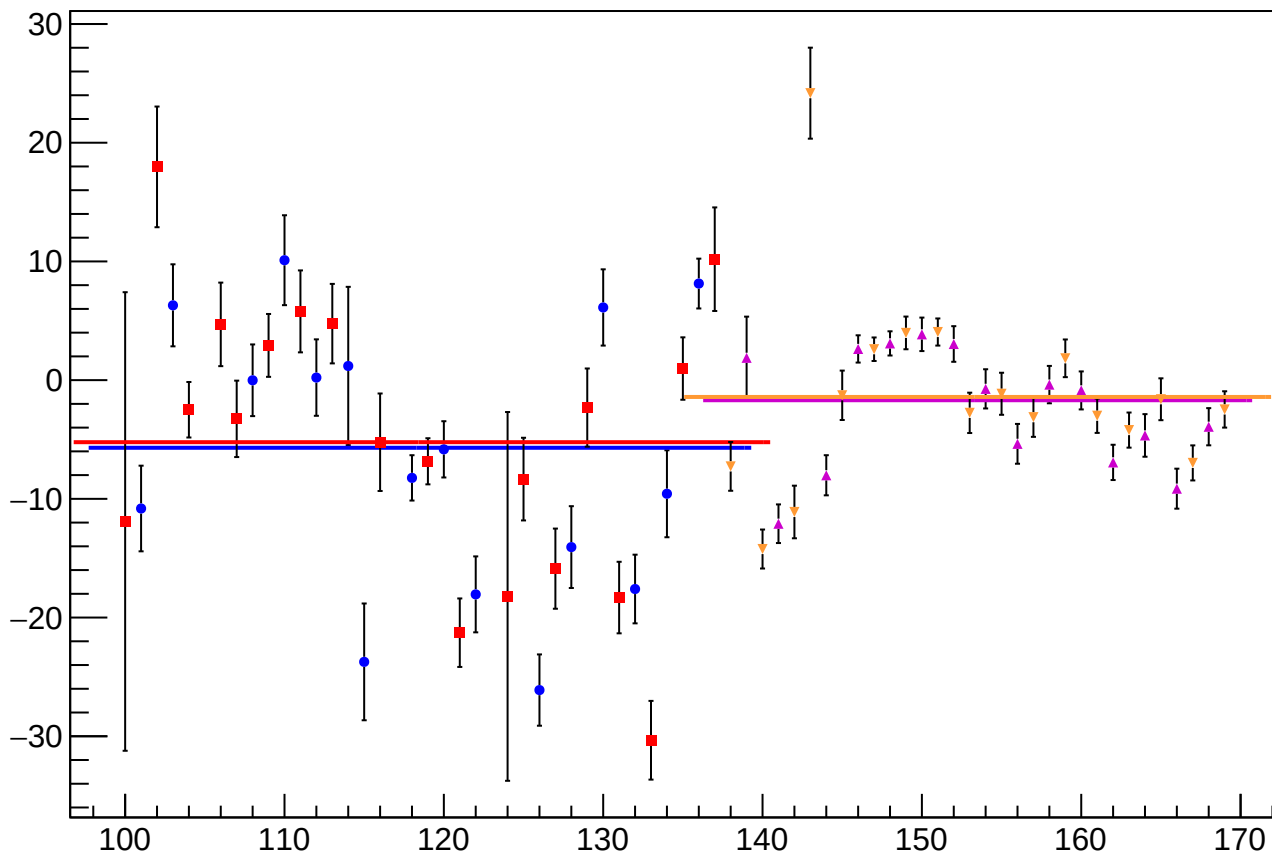
Right: -40.447 ± 0.495 χ^2/NDF : 4890.2/34

In: 9.437 ± 0.442 χ^2/NDF : 10561.0/30

Out: 7.613 ± 0.428 χ^2/NDF : 13128.5/35

All: 8.495 ± 0.307 χ^2/NDF : 23698.3/66

reg_asym_at2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.697+/-0.753 χ^2/NDF : 196.7/15

Left Out: -1.417+/-0.378 χ^2/NDF :212.7/16

Right Out: -5.227+/-0.740 χ^2/NDF : 197.3/18

Left In: -1.692+/-0.392 χ^2/NDF :160.4/14

Left: -1.550+/-0.272 χ^2/NDF : 373.4/31

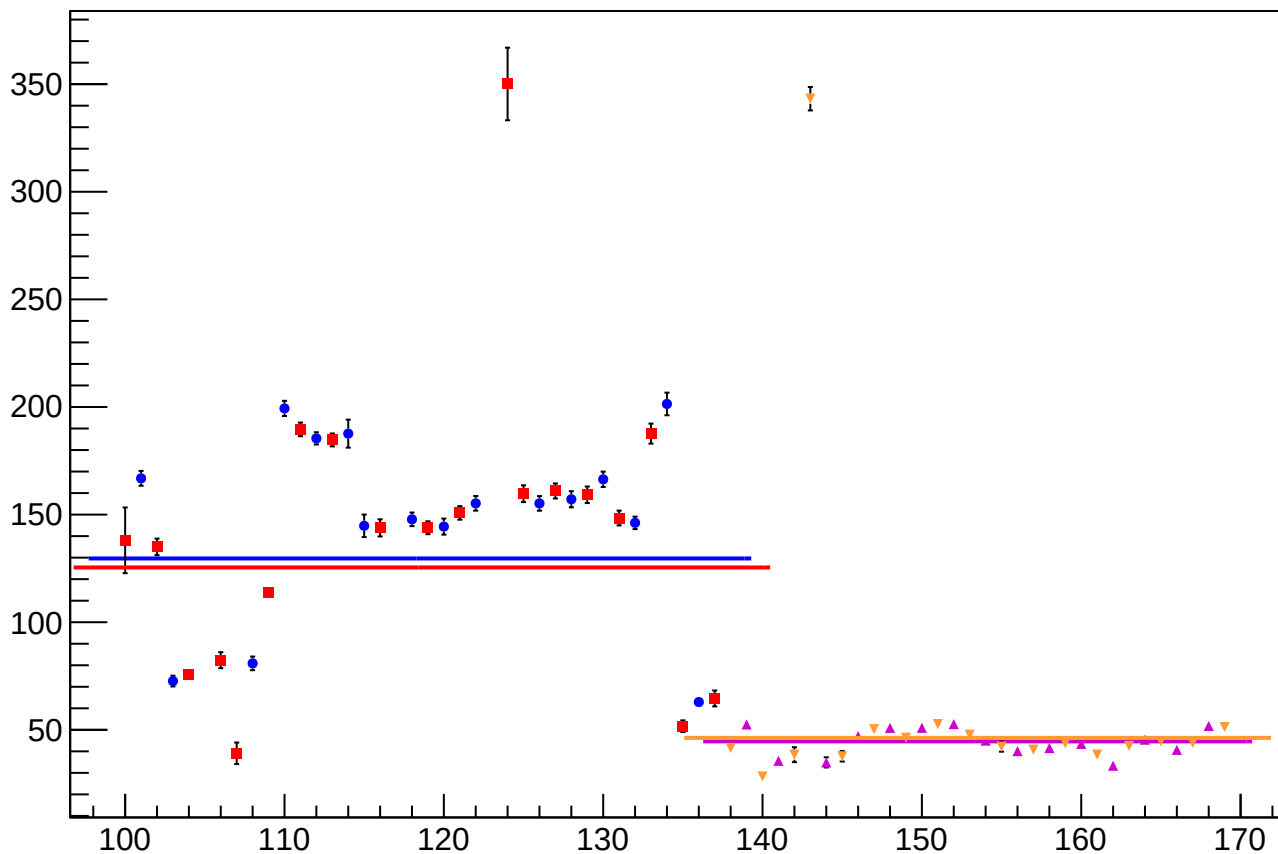
Right: -5.458+/-0.528 χ^2/NDF : 394.3/34

In: -2.545+/-0.348 χ^2/NDF :379.4/30

Out: -2.206+/-0.337 χ^2/NDF :431.1/35

All: -2.370+/-0.242 χ^2/NDF : 811.0/66

reg_asym_at2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 129.621+/-0.801 χ^2/NDF : 3624.4/15

Left Out: 46.264+/-0.536 χ^2/NDF :3132.2/16

Right Out: 125.435+/-0.790 χ^2/NDF : 3503.2/18

Left In: 44.628+/-0.542 χ^2/NDF :144.6/14

Left: 45.455+/-0.381 χ^2/NDF : 3281.5/31

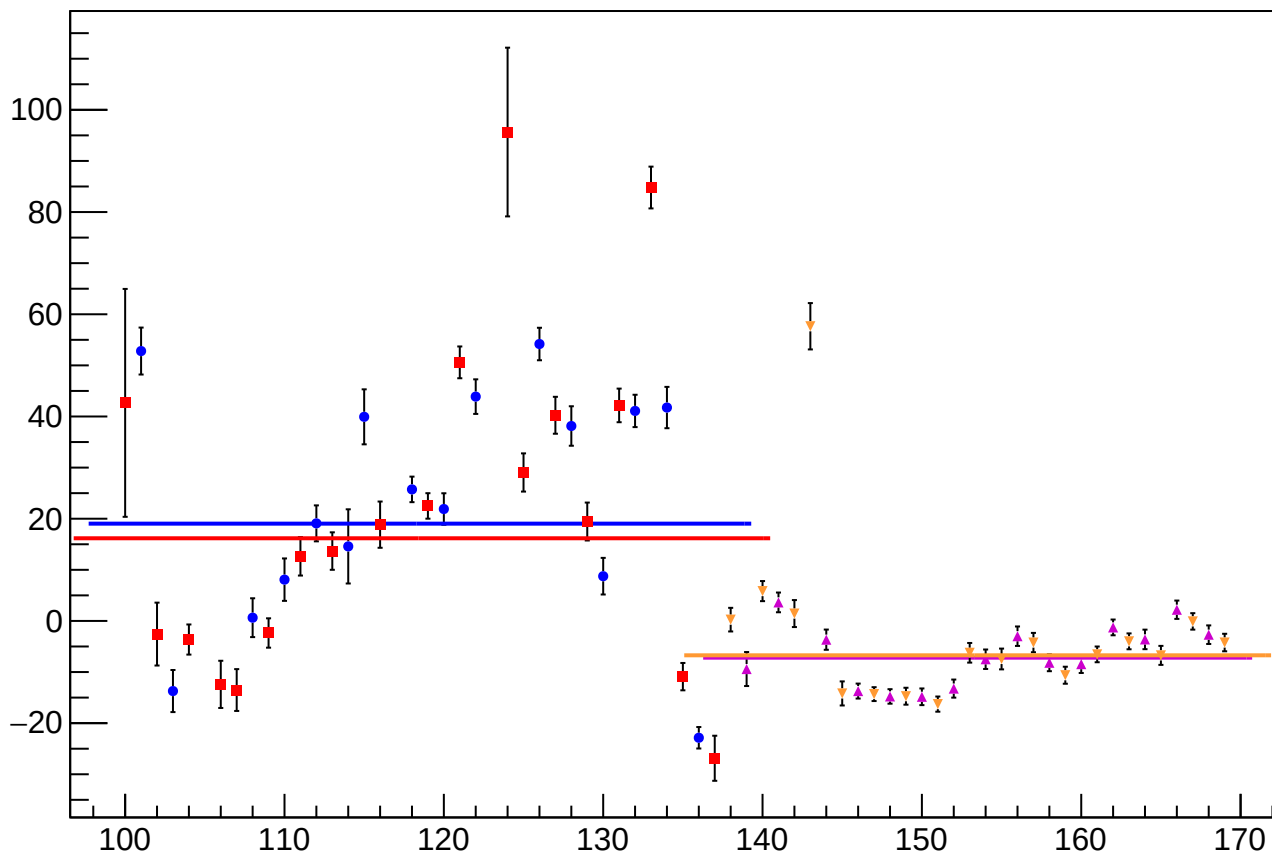
Right: 127.500+/-0.562 χ^2/NDF : 7141.4/34

In: 71.348+/-0.449 χ^2/NDF :11495.7/30

Out: 71.237+/-0.444 χ^2/NDF :13514.1/35

All: 71.292+/-0.316 χ^2/NDF : 25009.9/66

reg_asym_at2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 19.035 ± 0.860 $\chi^2/\text{NDF}: 858.1/15$

Left Out: -6.726 ± 0.439 $\chi^2/\text{NDF}: 397.0/16$

Right Out: 16.173 ± 0.846 $\chi^2/\text{NDF}: 941.3/18$

Left In: -7.187 ± 0.455 $\chi^2/\text{NDF}: 174.8/14$

Left: -6.948 ± 0.316 $\chi^2/\text{NDF}: 572.3/31$

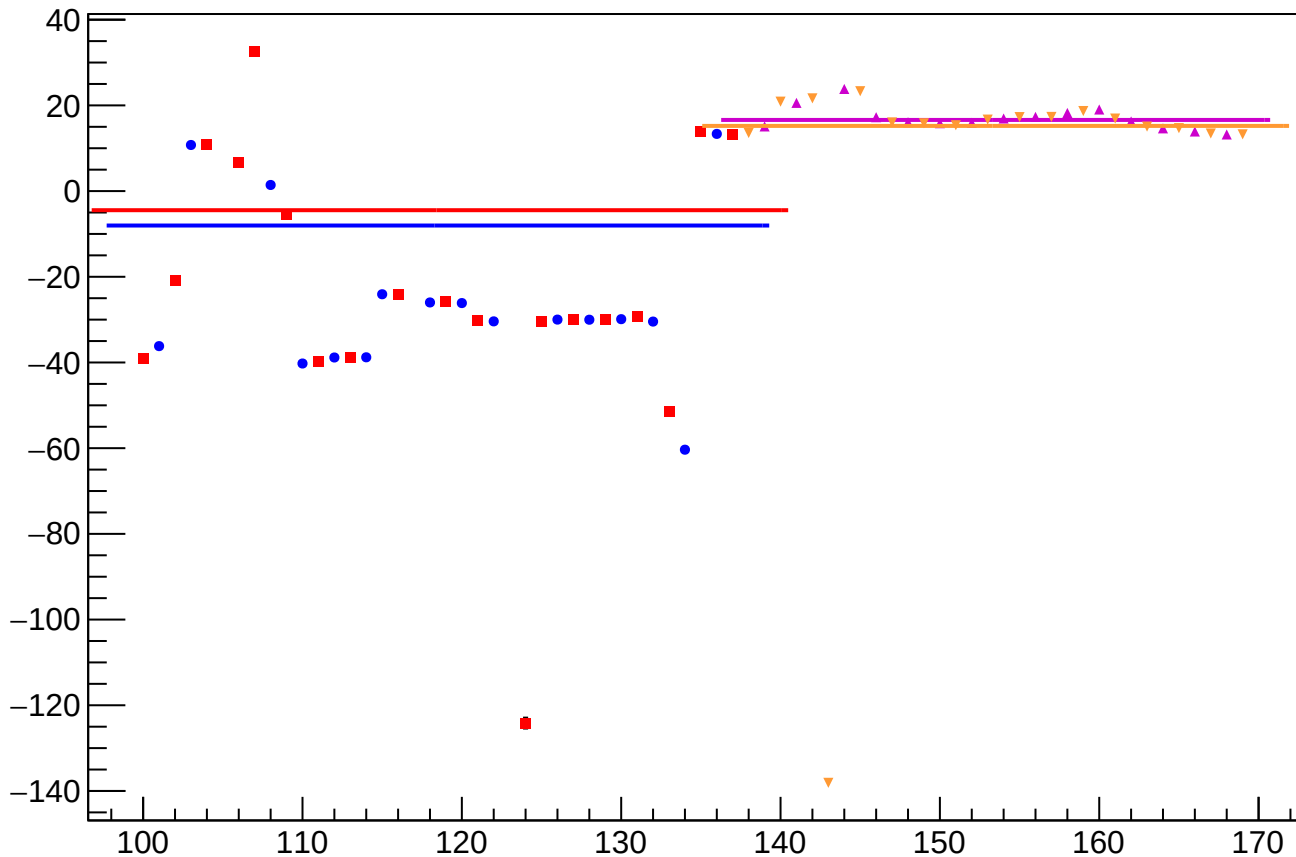
Right: 17.581 ± 0.603 $\chi^2/\text{NDF}: 1804.9/34$

In: -1.454 ± 0.402 $\chi^2/\text{NDF}: 1759.4/30$

Out: -1.868 ± 0.390 $\chi^2/\text{NDF}: 1915.5/35$

All: -1.667 ± 0.280 $\chi^2/\text{NDF}: 3675.5/66$

reg_asym_at2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -8.038 $\pm$ 0.046 χ^2 /NDF: 267883.6/15

Left Out: 15.211 $\pm$ 0.020 χ^2 /NDF:477849.1/16

Right Out: -4.461 $\pm$ 0.047 χ^2 /NDF: 228422.2/18

Left In: 16.605 $\pm$ 0.020 χ^2 /NDF:12946.7/14

Left: 15.901 $\pm$ 0.014 χ^2 /NDF: 493188.7/31

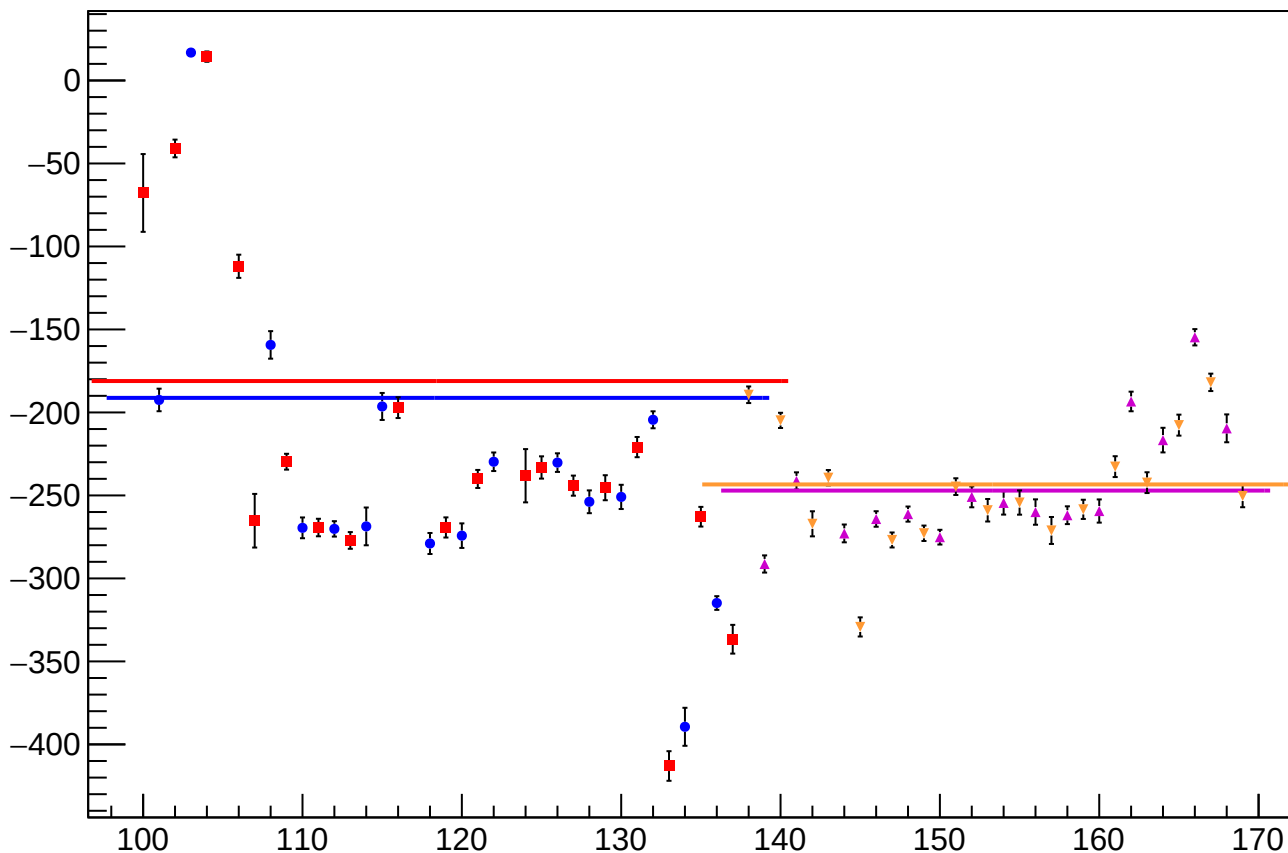
Right: -6.287 $\pm$ 0.033 χ^2 /NDF: 499287.4/34

In: 12.581 $\pm$ 0.019 χ^2 /NDF:522765.1/30

Out: 12.163 $\pm$ 0.018 χ^2 /NDF:855593.5/35

All: 12.371 $\pm$ 0.013 χ^2 /NDF: 1378614.8/66

reg_asym_atl1r2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -191.225+/-1.419 χ^2/NDF : 7224.7/15

Left Out: -243.377+/-1.366 χ^2/NDF : 714.5/16

Right Out: -181.080+/-1.383 χ^2/NDF : 7374.0/18

Left In: -247.082+/-1.452 χ^2/NDF : 648.3/14

Left: -245.116+/-0.995 χ^2/NDF : 1366.2/31

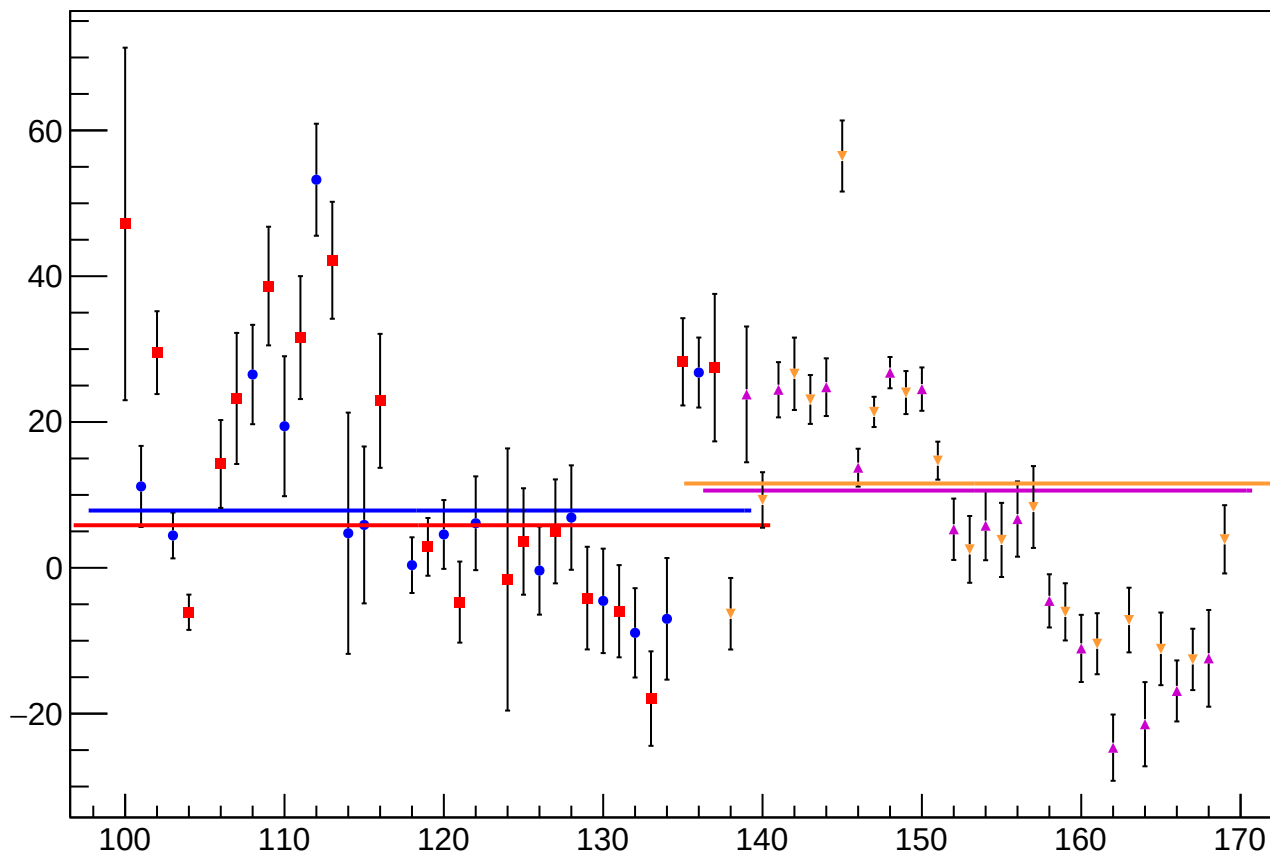
Right: -186.022+/-0.990 χ^2/NDF : 14624.9/34

In: -218.497+/-1.015 χ^2/NDF : 8629.9/30

Out: -212.611+/-0.972 χ^2/NDF : 9116.2/35

All: -215.426+/-0.702 χ^2/NDF : 17763.6/66

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.859 ± 1.438 $\chi^2/\text{NDF}: 80.9/15$

Left Out: 11.565 ± 0.909 $\chi^2/\text{NDF}: 289.6/16$

Right Out: 5.839 ± 1.355 $\chi^2/\text{NDF}: 141.9/18$

Left In: 10.598 ± 0.979 $\chi^2/\text{NDF}: 297.1/14$

Left: 11.118 ± 0.666 $\chi^2/\text{NDF}: 587.3/31$

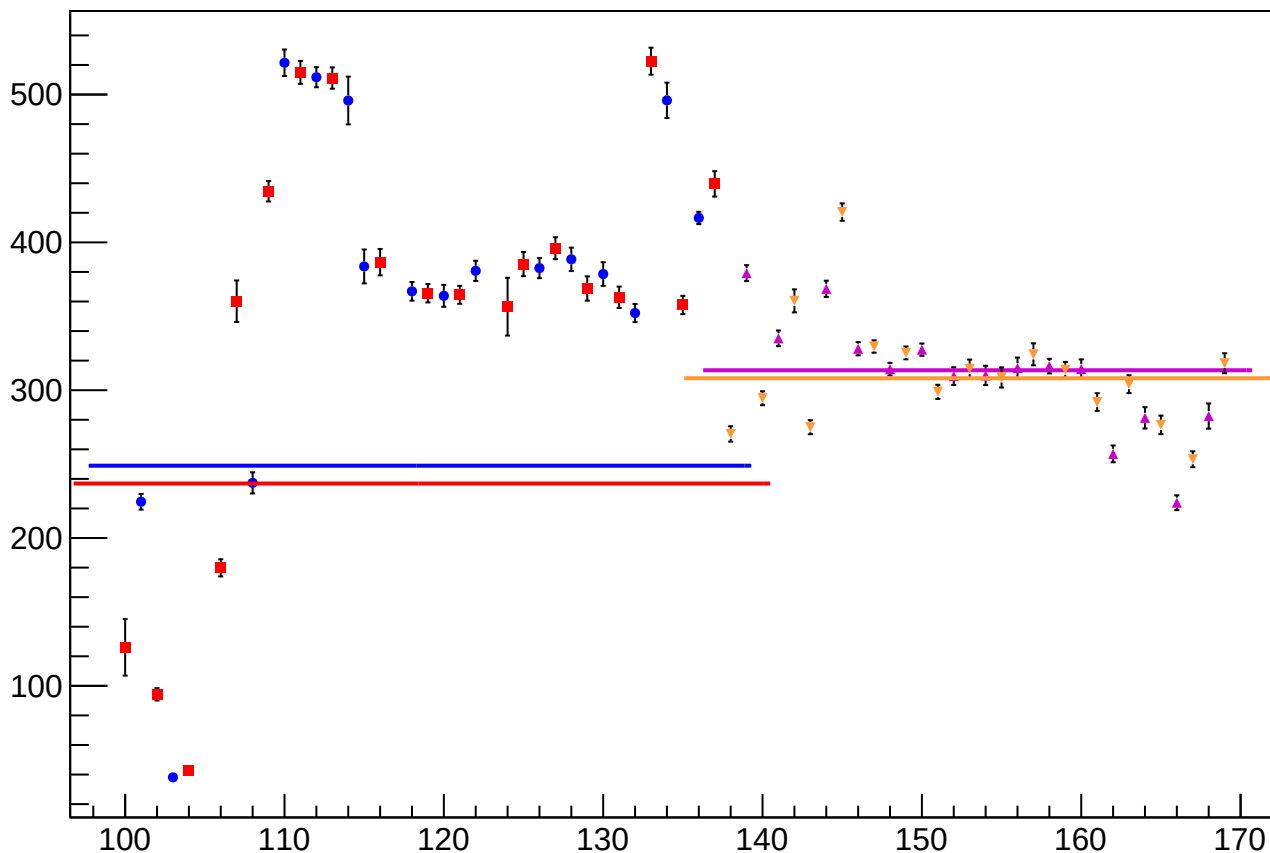
Right: 6.789 ± 0.986 $\chi^2/\text{NDF}: 223.8/34$

In: 9.730 ± 0.809 $\chi^2/\text{NDF}: 380.5/30$

Out: 9.789 ± 0.755 $\chi^2/\text{NDF}: 443.8/35$

All: 9.762 ± 0.552 $\chi^2/\text{NDF}: 824.3/66$

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 248.932 ± 1.422 $\chi^2/\text{NDF}: 15302.2/15$

Left Out: 308.097 ± 1.334 $\chi^2/\text{NDF}: 709.9/16$

Right Out: 236.871 ± 1.407 $\chi^2/\text{NDF}: 15657.3/18$

Left In: 313.495 ± 1.407 $\chi^2/\text{NDF}: 739.2/14$

Left: 310.654 ± 0.968 $\chi^2/\text{NDF}: 1456.8/31$

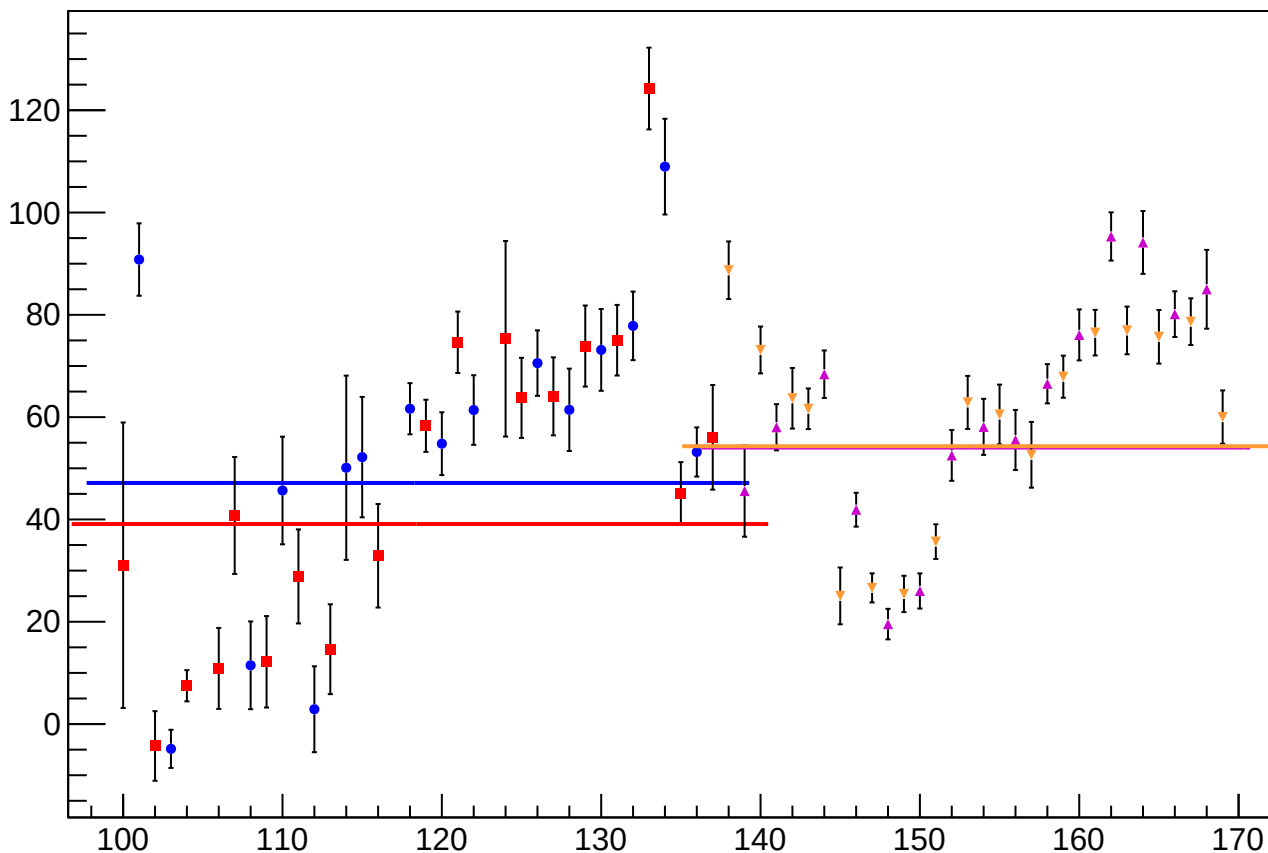
Right: 242.838 ± 1.000 $\chi^2/\text{NDF}: 30995.9/34$

In: 281.558 ± 1.000 $\chi^2/\text{NDF}: 17083.6/30$

Out: 274.364 ± 0.968 $\chi^2/\text{NDF}: 17716.7/35$

All: 277.845 ± 0.696 $\chi^2/\text{NDF}: 34827.0/66$

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 47.137 $\pm$ 1.668 χ^2 /NDF: 385.3/15

Left Out: 54.322 $\pm$ 1.078 χ^2 /NDF:388.6/16

Right Out: 39.105 $\pm$ 1.596 χ^2 /NDF: 416.5/18

Left In: 54.057 $\pm$ 1.158 χ^2 /NDF:425.0/14

Left: 54.199 $\pm$ 0.789 χ^2 /NDF: 813.6/31

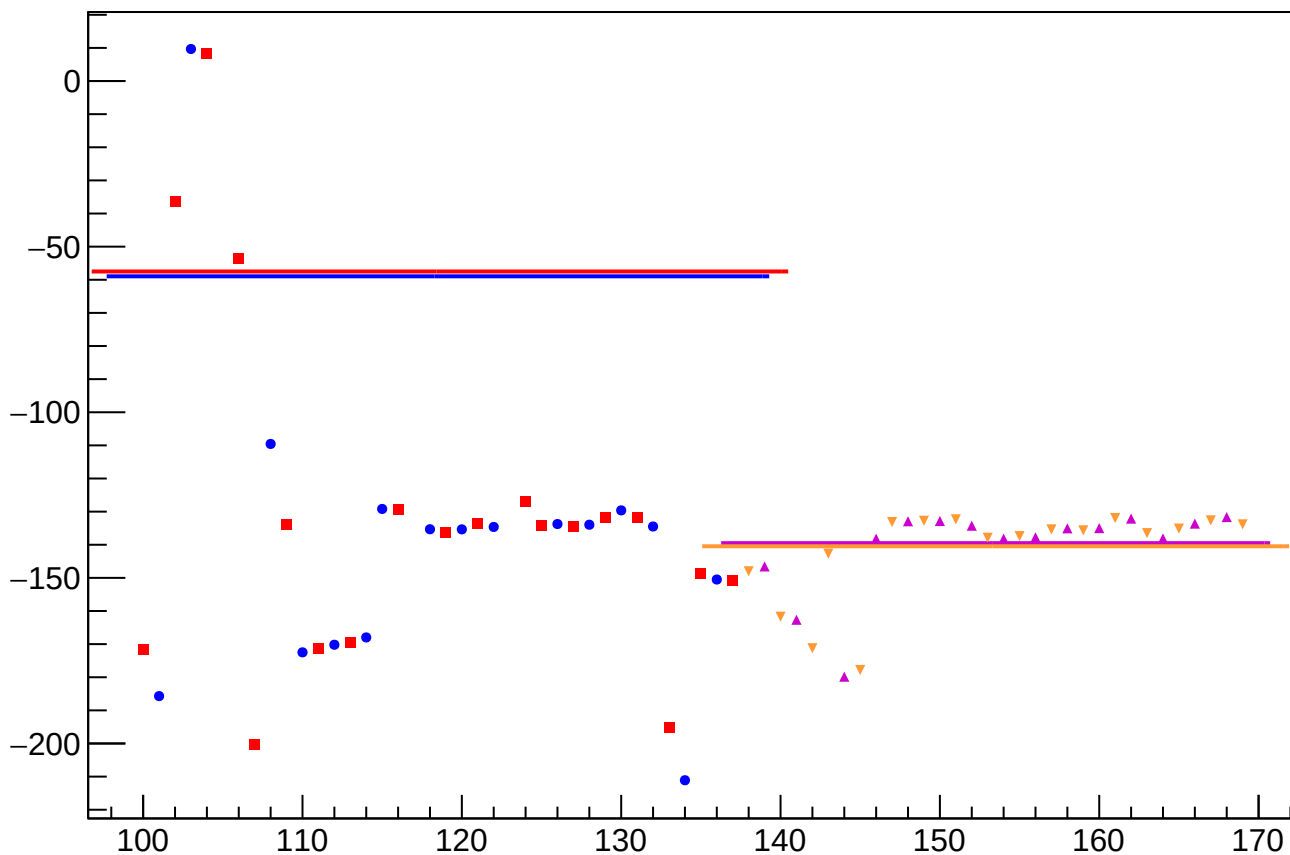
Right: 42.944 $\pm$ 1.153 χ^2 /NDF: 813.9/34

In: 51.805 $\pm$ 0.951 χ^2 /NDF:822.0/30

Out: 49.556 $\pm$ 0.893 χ^2 /NDF:867.5/35

All: 50.610 $\pm$ 0.651 χ^2 /NDF: 1692.4/66

reg_asym_atl1r2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -58.956 ± 0.073 $\chi^2/\text{NDF}: 1227079.0/15$

Left Out: -140.459 ± 0.052 $\chi^2/\text{NDF}: 58001.2/16$

Right Out: -57.497 ± 0.074 $\chi^2/\text{NDF}: 871305.9/18$

Left In: -139.519 ± 0.054 $\chi^2/\text{NDF}: 46732.2/14$

Left: -140.009 ± 0.037 $\chi^2/\text{NDF}: 104893.0/31$

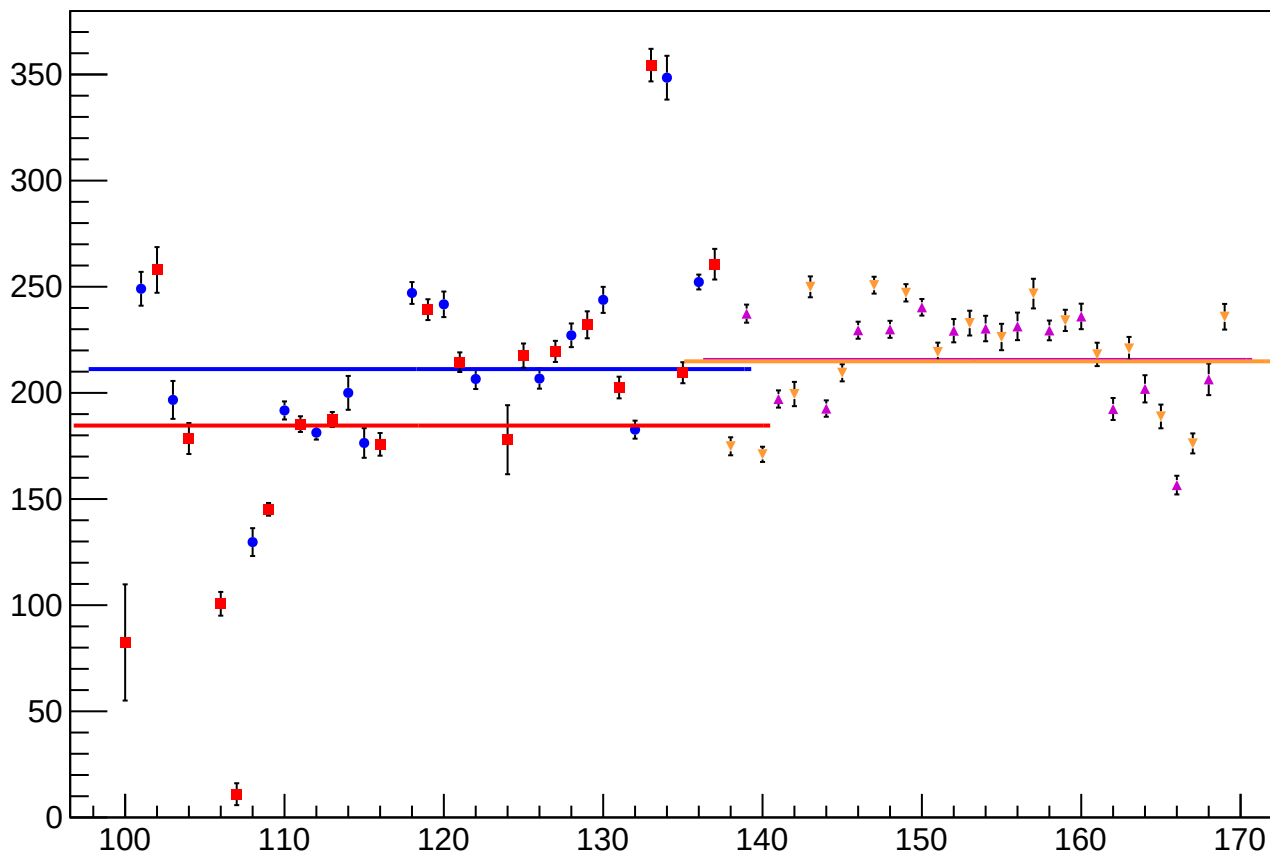
Right: -58.243 ± 0.052 $\chi^2/\text{NDF}: 2098582.3/34$

In: -110.992 ± 0.043 $\chi^2/\text{NDF}: 2069025.1/30$

Out: -113.512 ± 0.042 $\chi^2/\text{NDF}: 1771989.2/35$

All: -112.278 ± 0.030 $\chi^2/\text{NDF}: 3842750.9/66$

reg_asym_atl1r2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 211.210 ± 1.296 $\chi^2/\text{NDF}: 783.0/15$

Left Out: 214.874 ± 1.172 $\chi^2/\text{NDF}: 594.5/16$

Right Out: 184.614 ± 1.194 $\chi^2/\text{NDF}: 2540.4/18$

Left In: 215.514 ± 1.228 $\chi^2/\text{NDF}: 391.5/14$

Left: 215.179 ± 0.848 $\chi^2/\text{NDF}: 986.2/31$

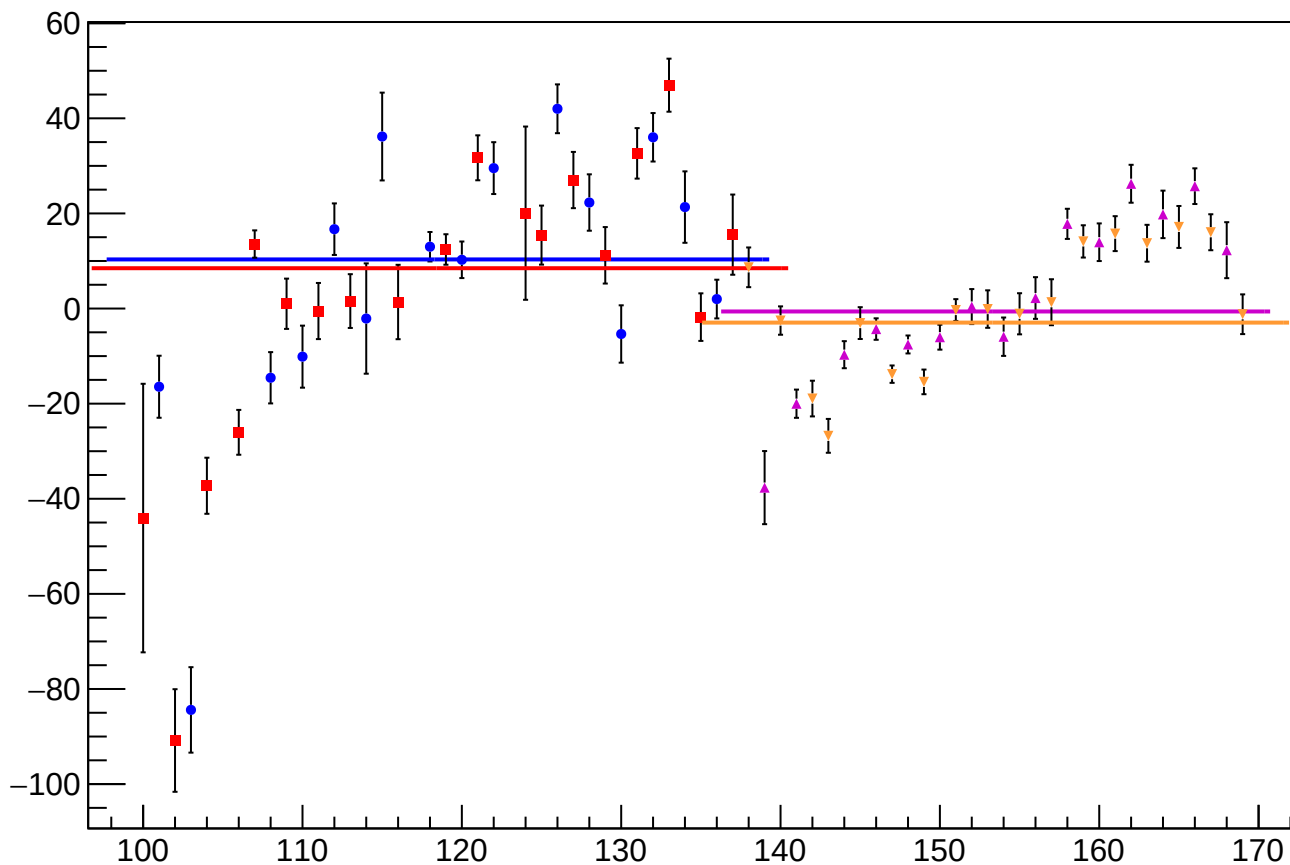
Right: 196.825 ± 0.878 $\chi^2/\text{NDF}: 3551.2/34$

In: 213.477 ± 0.891 $\chi^2/\text{NDF}: 1180.3/30$

Out: 200.021 ± 0.836 $\chi^2/\text{NDF}: 3462.0/35$

All: 206.321 ± 0.610 $\chi^2/\text{NDF}: 4763.5/66$

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 10.329 ± 1.333 χ^2/NDF : 263.3/15

Left Out: -2.956 ± 0.787 χ^2/NDF : 247.9/16

Right Out: 8.480 ± 1.225 χ^2/NDF : 322.3/18

Left In: -0.616 ± 0.836 χ^2/NDF : 262.3/14

Left: -1.857 ± 0.573 χ^2/NDF : 514.3/31

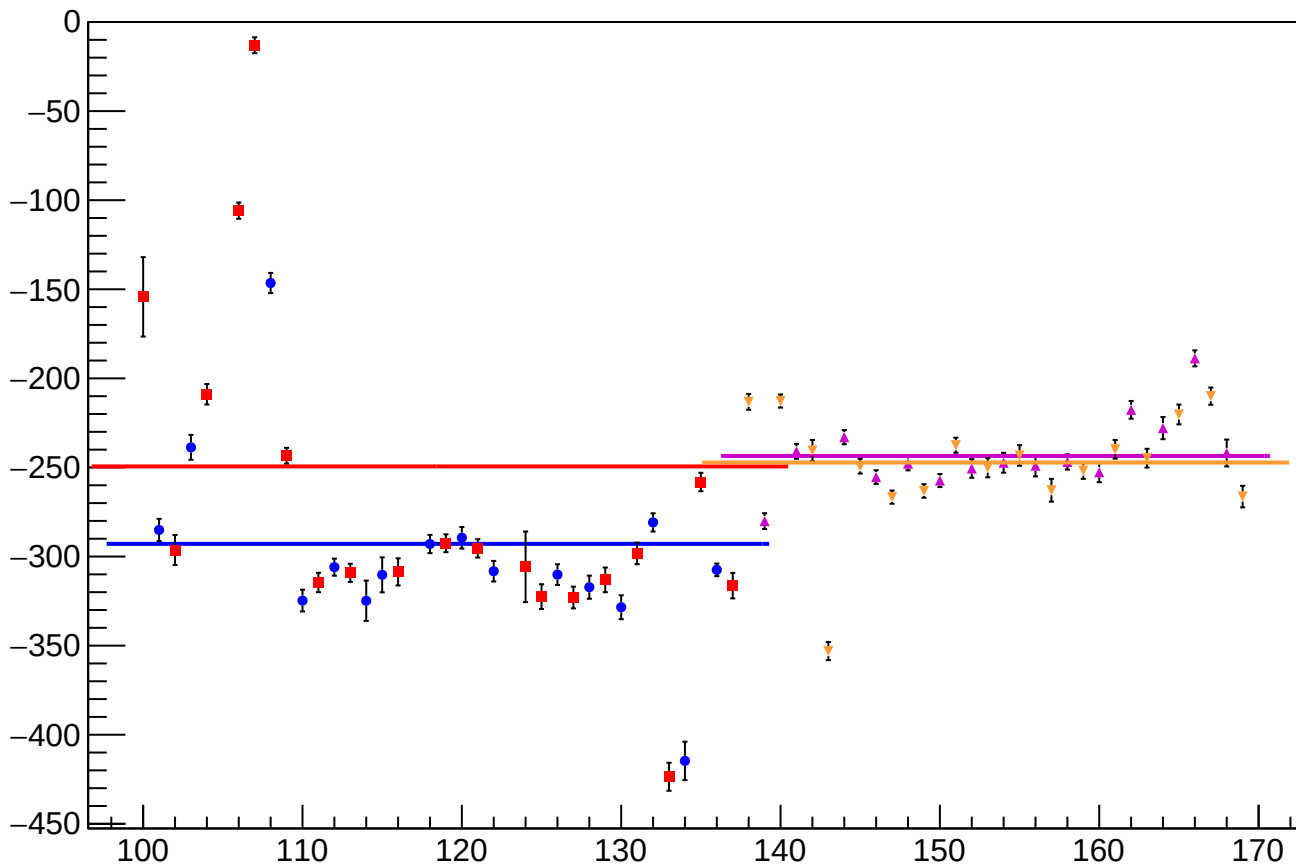
Right: 9.326 ± 0.902 χ^2/NDF : 586.7/34

In: 2.475 ± 0.708 χ^2/NDF : 574.0/30

Out: 0.386 ± 0.662 χ^2/NDF : 631.9/35

All: 1.360 ± 0.484 χ^2/NDF : 1210.6/66

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -245.463 ± 0.827 $\chi^2/\text{NDF}: 1032.6/31$

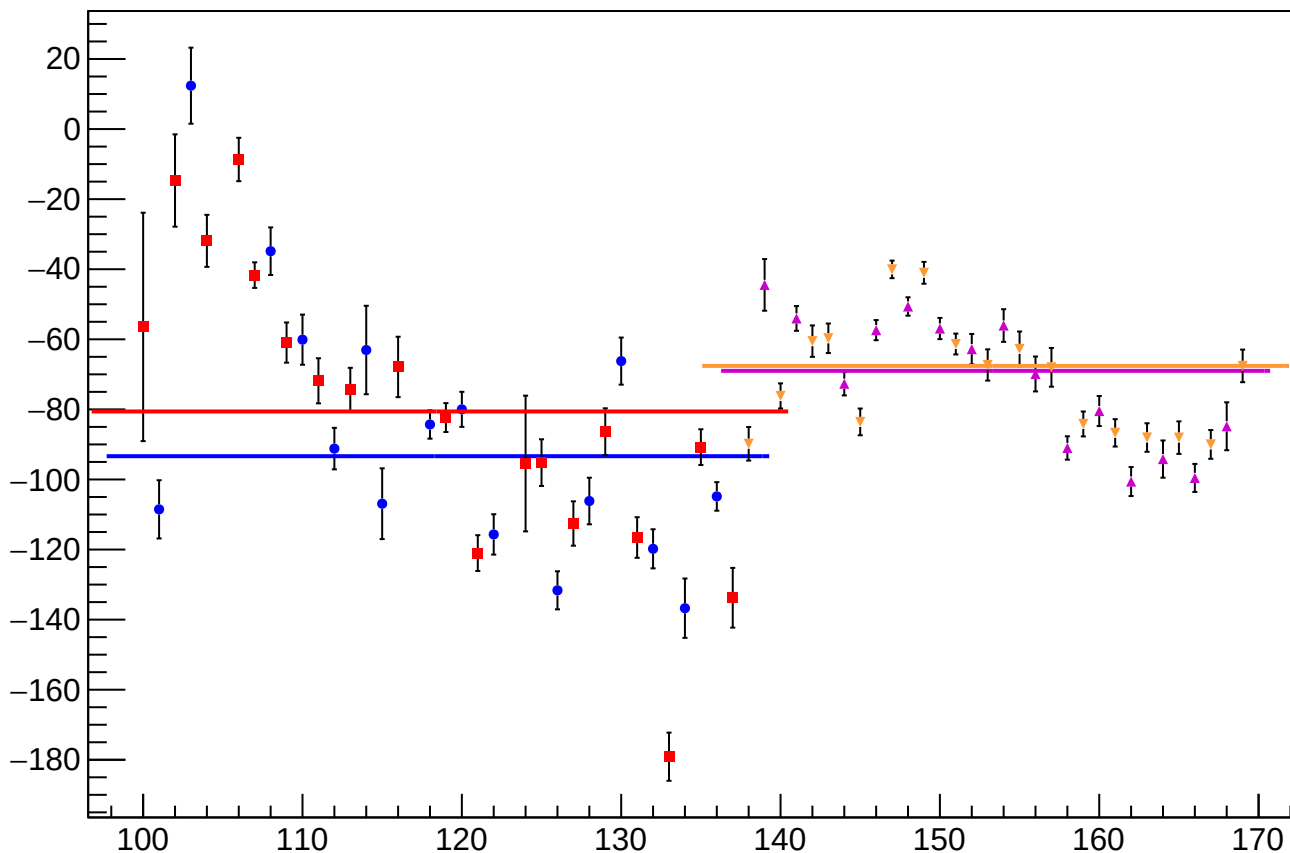
Right: -269.627 ± 1.001 $\chi^2/\text{NDF}: 6821.1/34$

In: -263.177 ± 0.926 $\chi^2/\text{NDF}: 1952.9/30$

Out: -248.135 ± 0.879 $\chi^2/\text{NDF}: 6108.4/35$

All: -255.268 ± 0.638 $\chi^2/\text{NDF}: 8200.0/66$

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -93.357 ± 1.534 χ^2/NDF : 355.3/15

Left Out: -67.585 ± 0.932 χ^2/NDF : 369.6/16

Right Out: -80.592 ± 1.424 χ^2/NDF : 715.3/18

Left In: -68.997 ± 0.987 χ^2/NDF : 316.5/14

Left: -68.250 ± 0.678 χ^2/NDF : 687.2/31

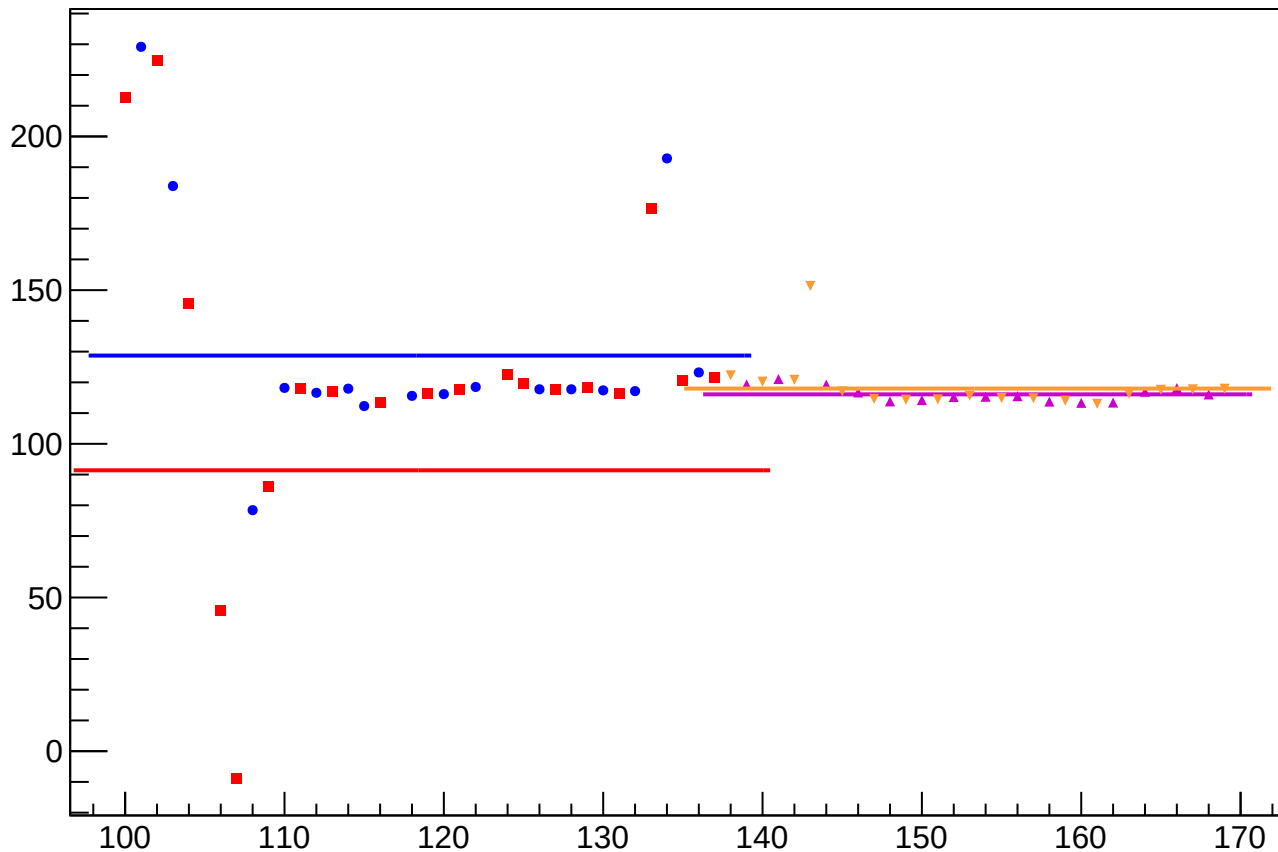
Right: -86.499 ± 1.044 χ^2/NDF : 1107.8/34

In: -76.131 ± 0.830 χ^2/NDF : 850.0/30

Out: -71.486 ± 0.780 χ^2/NDF : 1143.4/35

All: -73.663 ± 0.568 χ^2/NDF : 2010.1/66

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 128.715 $\pm$ 0.089 χ^2 /NDF: 183522.8/15

Left Out: 117.983 $\pm$ 0.044 χ^2 /NDF: 29406.0/16

Right Out: 91.385 $\pm$ 0.079 χ^2 /NDF: 604912.4/18

Left In: 116.096 $\pm$ 0.046 χ^2 /NDF: 2822.9/14

Left: 117.069 $\pm$ 0.032 χ^2 /NDF: 33105.4/31

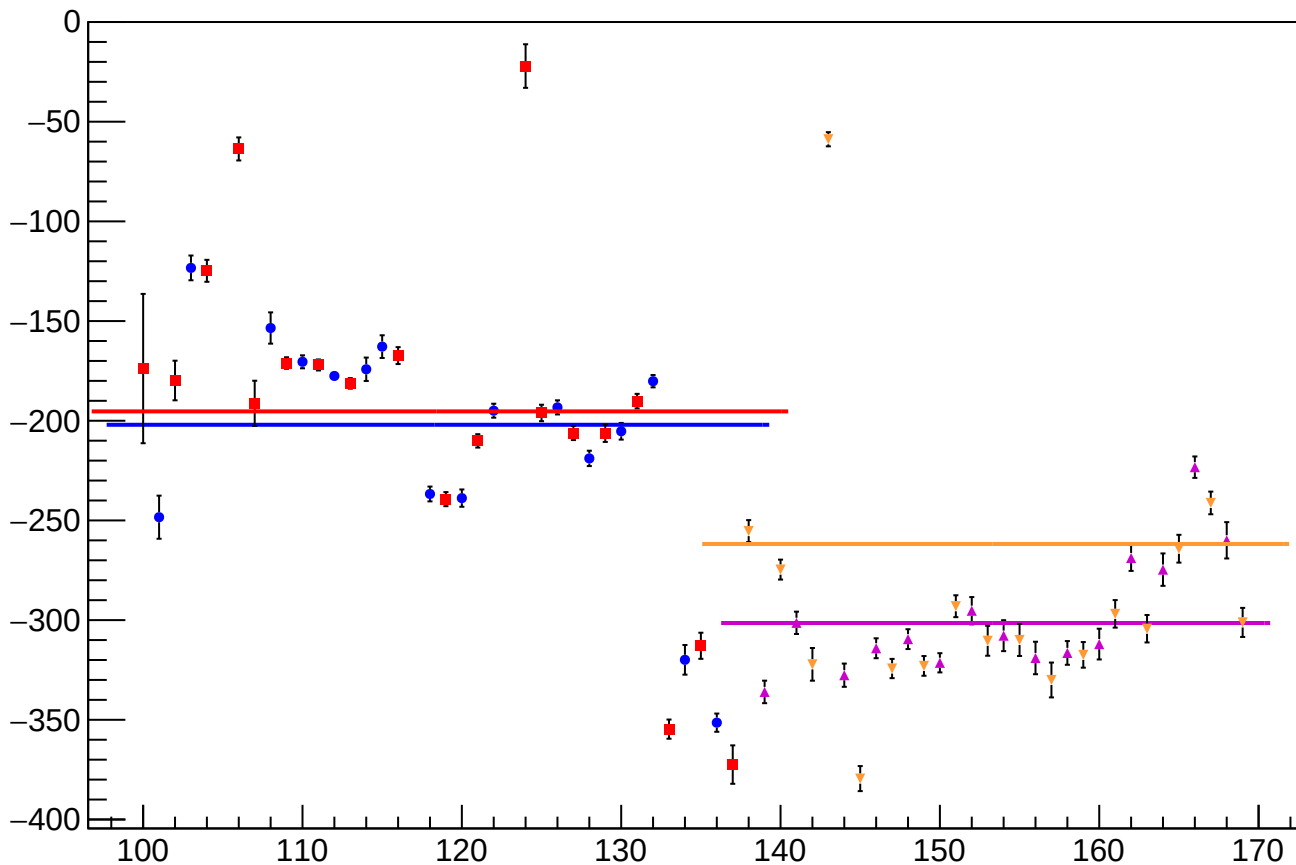
Right: 107.821 $\pm$ 0.059 χ^2 /NDF: 886599.9/34

In: 118.729 $\pm$ 0.041 χ^2 /NDF: 202206.0/30

Out: 111.618 $\pm$ 0.039 χ^2 /NDF: 720416.0/35

All: 114.991 $\pm$ 0.028 χ^2 /NDF: 938657.8/66

reg_asym_atr1l2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -202.020 ± 1.024 $\chi^2/\text{NDF}: 2040.4/15$

Left Out: -261.809 ± 1.426 $\chi^2/\text{NDF}: 4341.0/16$

Right Out: -195.311 ± 0.974 $\chi^2/\text{NDF}: 3100.7/18$

Left In: -301.450 ± 1.582 $\chi^2/\text{NDF}: 366.6/14$

Left: -279.579 ± 1.059 $\chi^2/\text{NDF}: 5054.2/31$

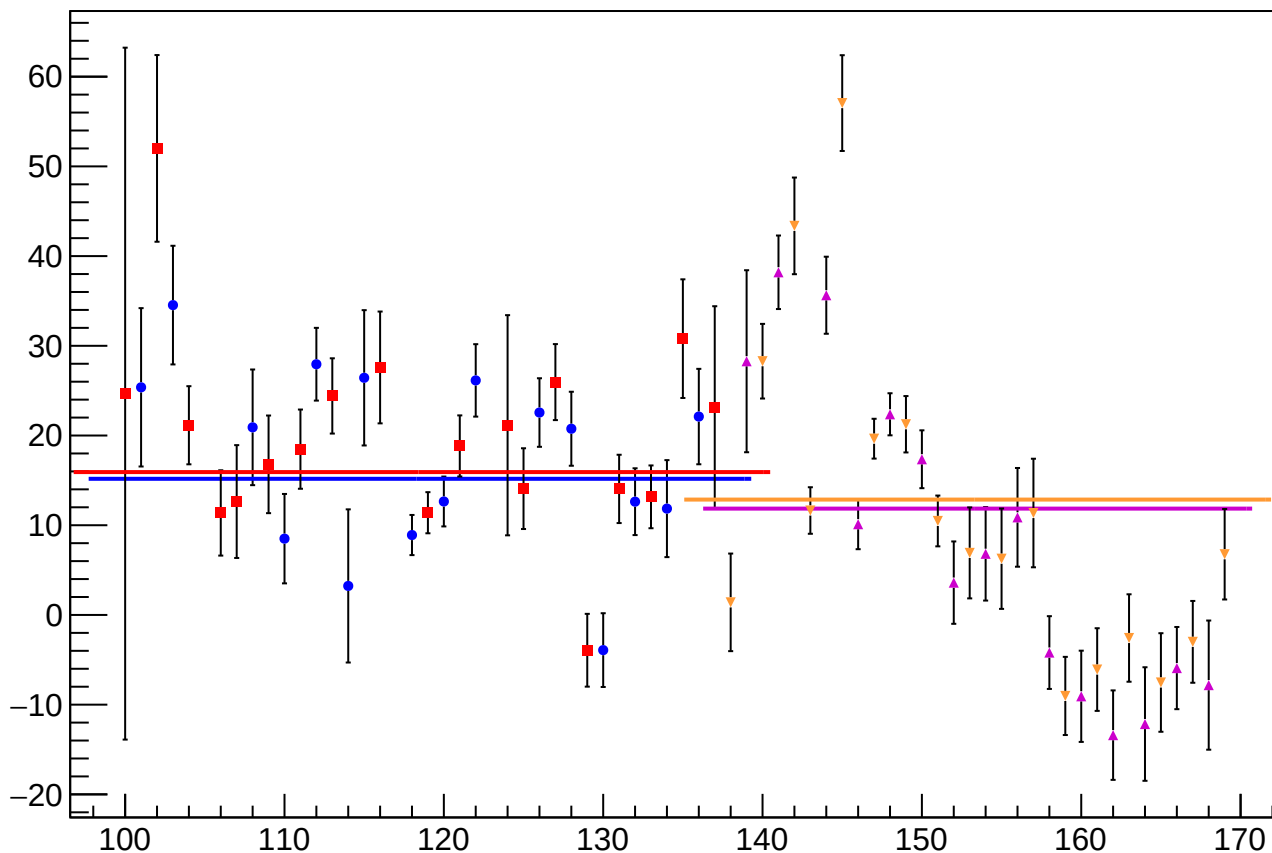
Right: -198.498 ± 0.706 $\chi^2/\text{NDF}: 5163.6/34$

In: -231.392 ± 0.860 $\chi^2/\text{NDF}: 5191.8/30$

Out: -216.476 ± 0.804 $\chi^2/\text{NDF}: 8925.1/35$

All: -223.439 ± 0.587 $\chi^2/\text{NDF}: 14277.4/66$

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.175 $\pm$ 1.048 χ^2 /NDF: 72.3/15

Left Out: 12.860 $\pm$ 0.954 χ^2 /NDF:218.6/16

Right Out: 15.925 $\pm$ 1.037 χ^2 /NDF: 63.5/18

Left In: 11.853 $\pm$ 1.066 χ^2 /NDF:197.4/14

Left: 12.412 $\pm$ 0.711 χ^2 /NDF: 416.4/31

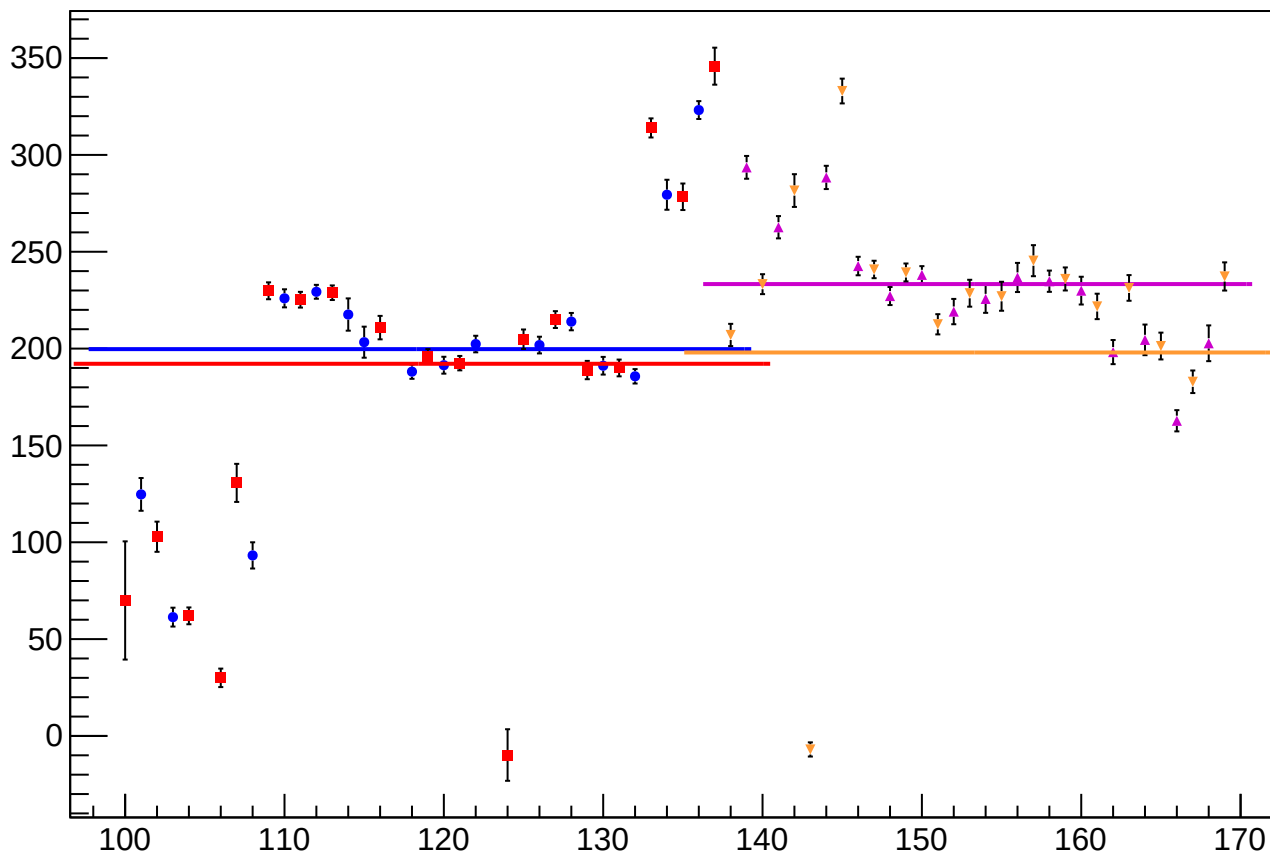
Right: 15.554 $\pm$ 0.737 χ^2 /NDF: 136.1/34

In: 13.543 $\pm$ 0.747 χ^2 /NDF:274.6/30

Out: 14.265 $\pm$ 0.702 χ^2 /NDF:286.9/35

All: 13.927 $\pm$ 0.512 χ^2 /NDF: 562.0/66

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 199.722+/-1.196 χ^2 /NDF: 2101.6/15

Left Out: 197.988+/-1.398 χ^2 /NDF:4091.9/16

Right Out: 192.156+/-1.150 χ^2 /NDF: 3777.1/18

Left In: 233.313+/-1.532 χ^2 /NDF:449.7/14

Left: 214.038+/-1.033 χ^2 /NDF: 4831.7/31

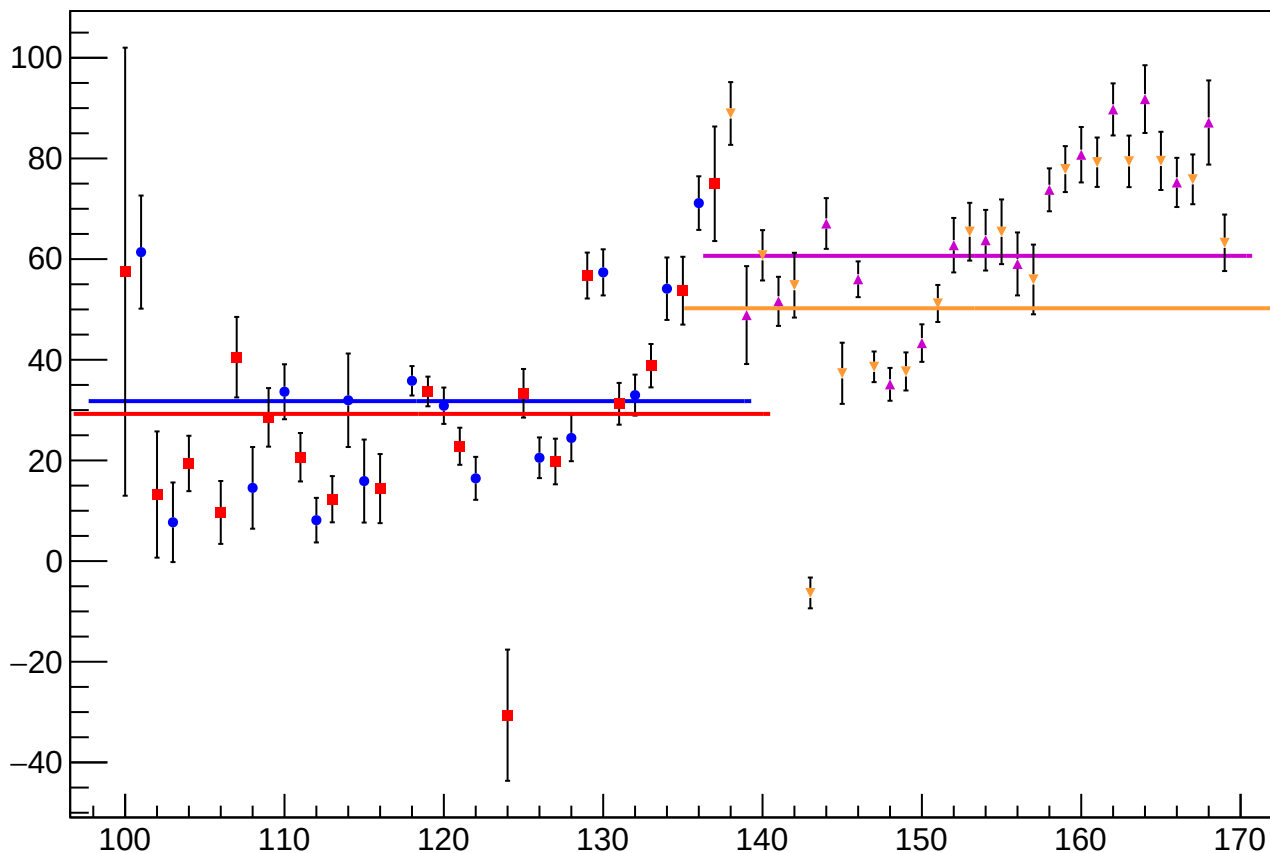
Right: 195.793+/-0.829 χ^2 /NDF: 5899.5/34

In: 212.437+/-0.943 χ^2 /NDF:2850.1/30

Out: 194.511+/-0.888 χ^2 /NDF:7879.4/35

All: 202.943+/-0.647 χ^2 /NDF: 10921.0/66

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 31.782 $\pm$ 1.217 χ^2 /NDF: 177.0/15

Left Out: 50.233 $\pm$ 1.131 χ^2 /NDF:591.0/16

Right Out: 29.245 $\pm$ 1.197 χ^2 /NDF: 140.9/18

Left In: 60.650 $\pm$ 1.262 χ^2 /NDF:186.3/14

Left: 54.875 $\pm$ 0.842 χ^2 /NDF: 815.1/31

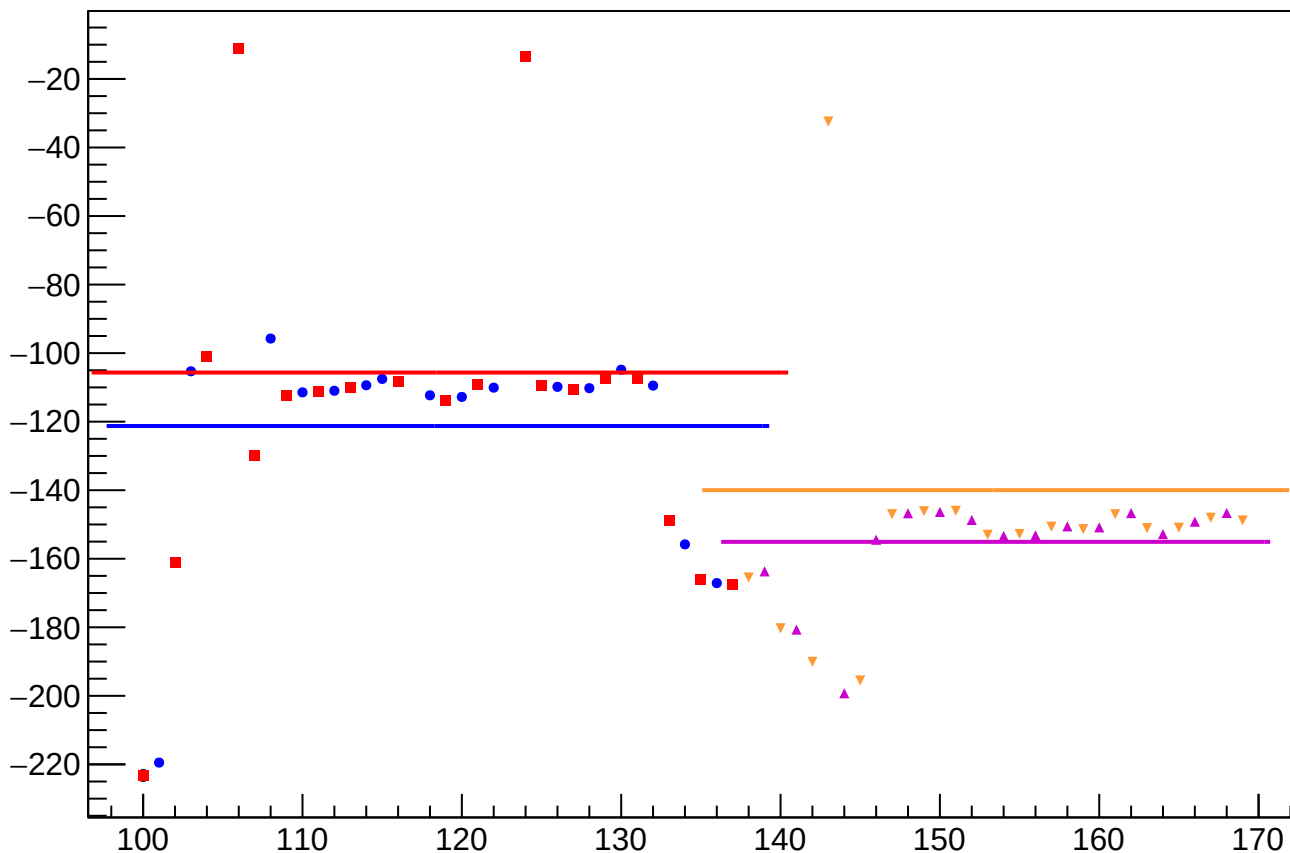
Right: 30.492 $\pm$ 0.853 χ^2 /NDF: 320.1/34

In: 45.687 $\pm$ 0.876 χ^2 /NDF:634.6/30

Out: 40.326 $\pm$ 0.822 χ^2 /NDF:894.3/35

All: 42.837 $\pm$ 0.599 χ^2 /NDF: 1548.8/66

reg_asym_atr1l2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -121.268+/-0.079 χ^2/NDF : 119398.5/15

Left Out: -139.982+/-0.054 χ^2/NDF : 633667.7/16

Right Out: -105.660+/-0.075 χ^2/NDF : 355093.7/18

Left In: -155.070+/-0.059 χ^2/NDF : 49153.5/14

Left: -146.949+/-0.040 χ^2/NDF : 718511.8/31

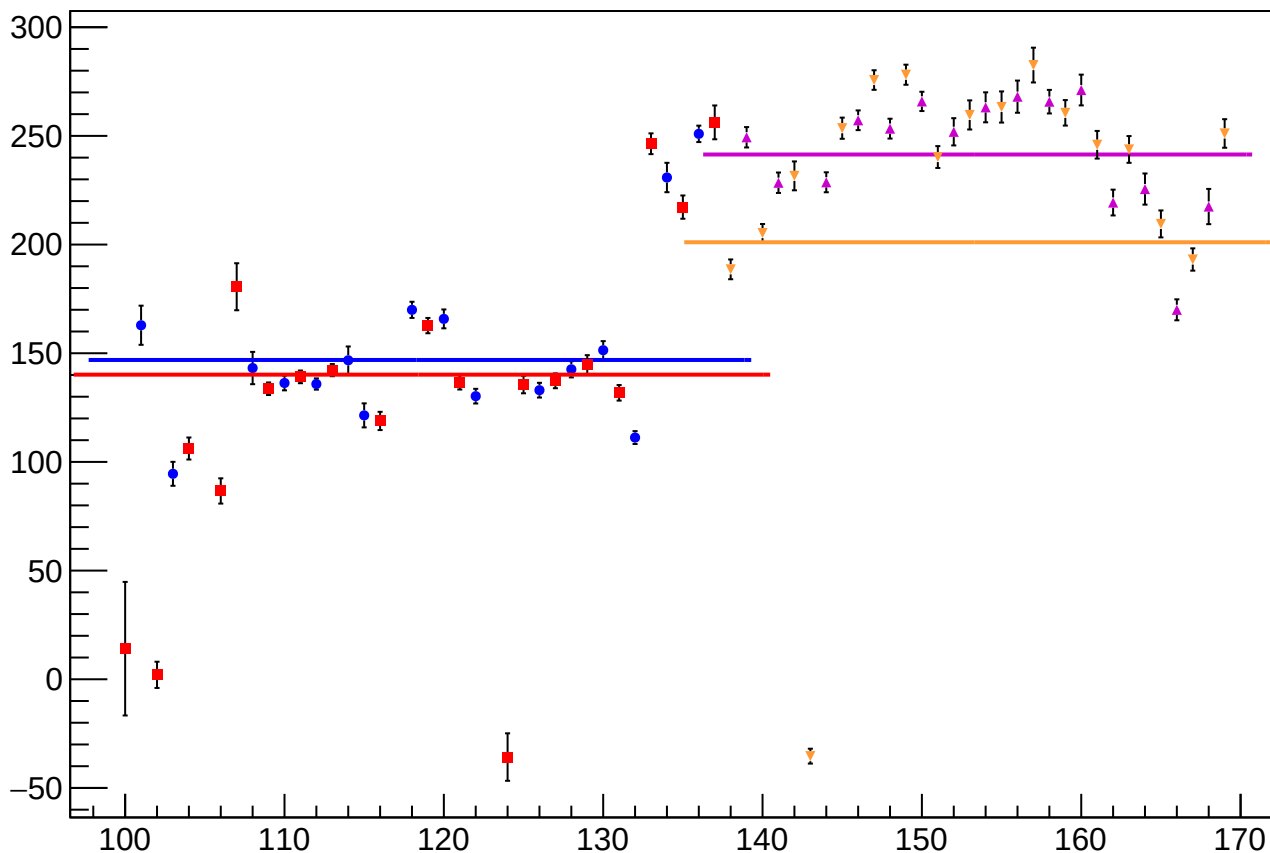
Right: -113.006+/-0.054 χ^2/NDF : 495037.6/34

In: -143.118+/-0.047 χ^2/NDF : 286230.7/30

Out: -128.125+/-0.044 χ^2/NDF : 1126925.2/35

All: -135.095+/-0.032 χ^2/NDF : 1467359.3/66

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 146.905 $\pm$ 1.003 χ^2 /NDF: 1302.0/15

Left Out: 201.067 $\pm$ 1.274 χ^2 /NDF:6061.5/16

Right Out: 140.153 $\pm$ 0.960 χ^2 /NDF: 1950.6/18

Left In: 241.438 $\pm$ 1.400 χ^2 /NDF:377.3/14

Left: 219.349 $\pm$ 0.942 χ^2 /NDF: 6893.8/31

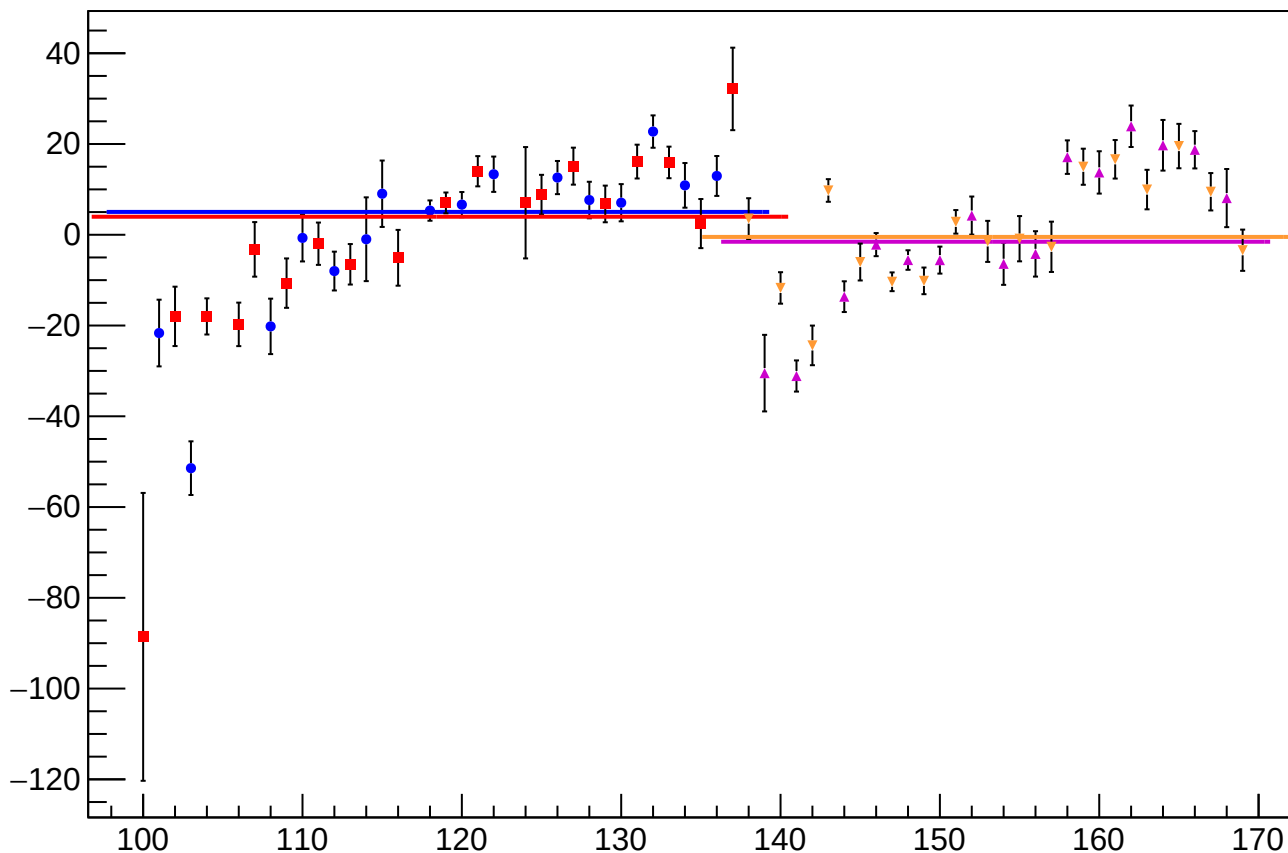
Right: 143.381 $\pm$ 0.694 χ^2 /NDF: 3276.2/34

In: 178.985 $\pm$ 0.815 χ^2 /NDF:4691.9/30

Out: 162.226 $\pm$ 0.767 χ^2 /NDF:9470.9/35

All: 170.088 $\pm$ 0.559 χ^2 /NDF: 14387.0/66

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.037 $\pm$ 1.021 χ^2 /NDF: 171.9/15

Left Out: -0.474 $\pm$ 0.862 χ^2 /NDF:155.7/16

Right Out: 3.974 $\pm$ 1.012 χ^2 /NDF: 144.9/18

Left In: -1.537 $\pm$ 0.956 χ^2 /NDF:215.7/14

Left: -0.951 $\pm$ 0.640 χ^2 /NDF: 372.1/31

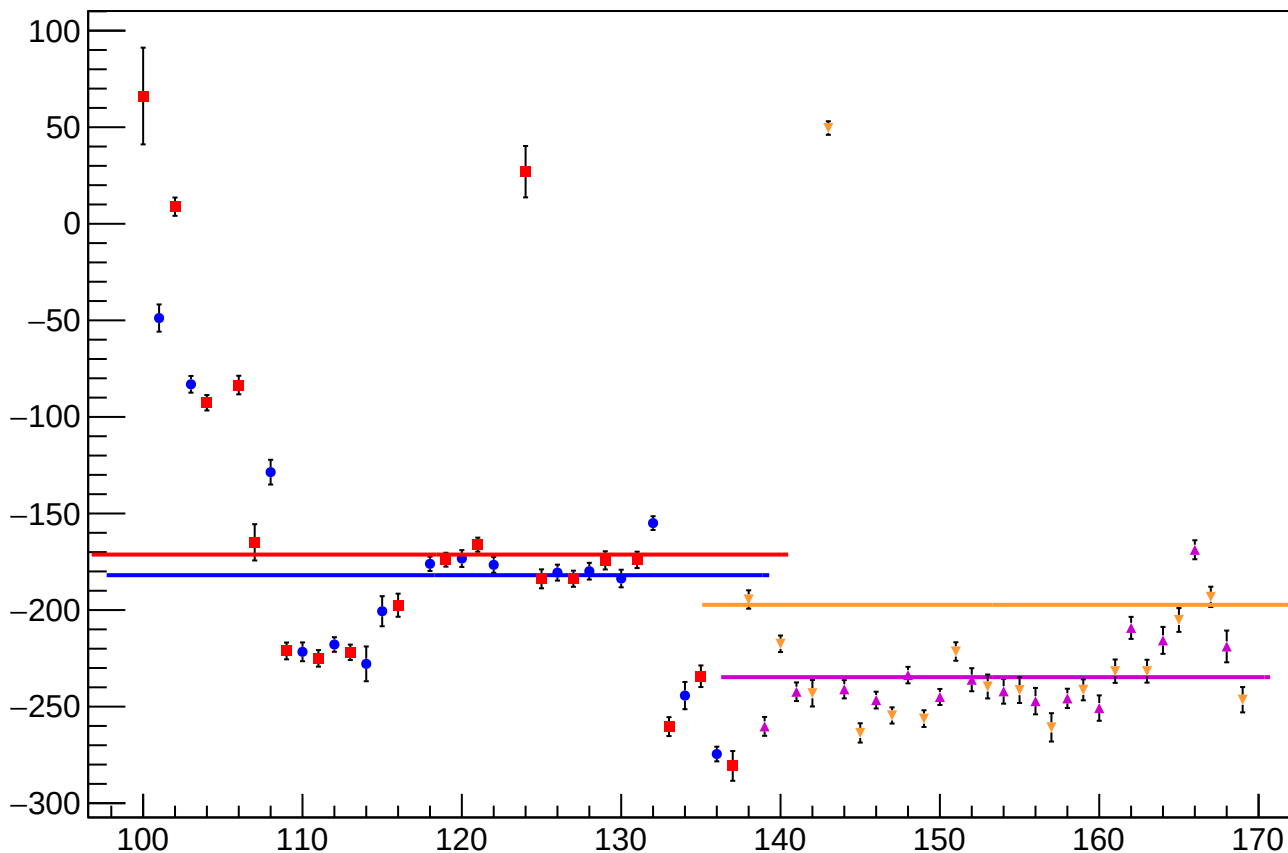
Right: 4.501 $\pm$ 0.719 χ^2 /NDF: 317.3/34

In: 1.533 $\pm$ 0.698 χ^2 /NDF:409.7/30

Out: 1.395 $\pm$ 0.656 χ^2 /NDF:311.8/35

All: 1.460 $\pm$ 0.478 χ^2 /NDF: 721.5/66

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -181.947 ± 1.154 $\chi^2/\text{NDF}: 1870.4/15$

Left Out: -197.296 ± 1.252 $\chi^2/\text{NDF}: 5924.9/16$

Right Out: -171.262 ± 1.111 $\chi^2/\text{NDF}: 3628.2/18$

Left In: -234.740 ± 1.361 $\chi^2/\text{NDF}: 271.3/14$

Left: -214.465 ± 0.921 $\chi^2/\text{NDF}: 6606.3/31$

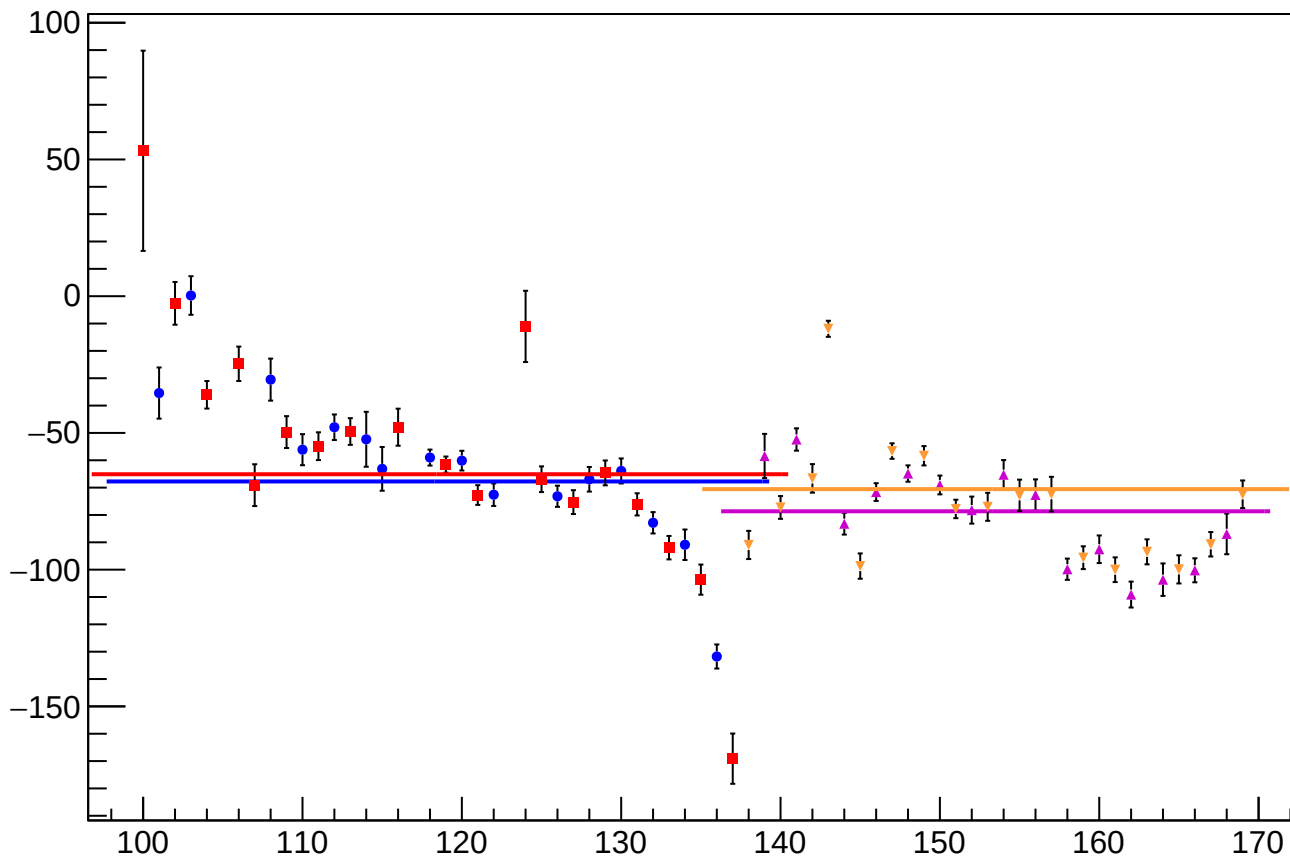
Right: -176.402 ± 0.800 $\chi^2/\text{NDF}: 5543.1/34$

In: -204.031 ± 0.880 $\chi^2/\text{NDF}: 3017.3/30$

Out: -182.730 ± 0.831 $\chi^2/\text{NDF}: 9795.0/35$

All: -192.770 ± 0.604 $\chi^2/\text{NDF}: 13121.9/66$

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -67.745 ± 1.181 $\chi^2/\text{NDF}: 414.0/15$

Left Out: -70.552 ± 1.020 $\chi^2/\text{NDF}: 652.8/16$

Right Out: -65.105 ± 1.167 $\chi^2/\text{NDF}: 429.0/18$

Left In: -78.655 ± 1.129 $\chi^2/\text{NDF}: 211.7/14$

Left: -74.194 ± 0.757 $\chi^2/\text{NDF}: 892.9/31$

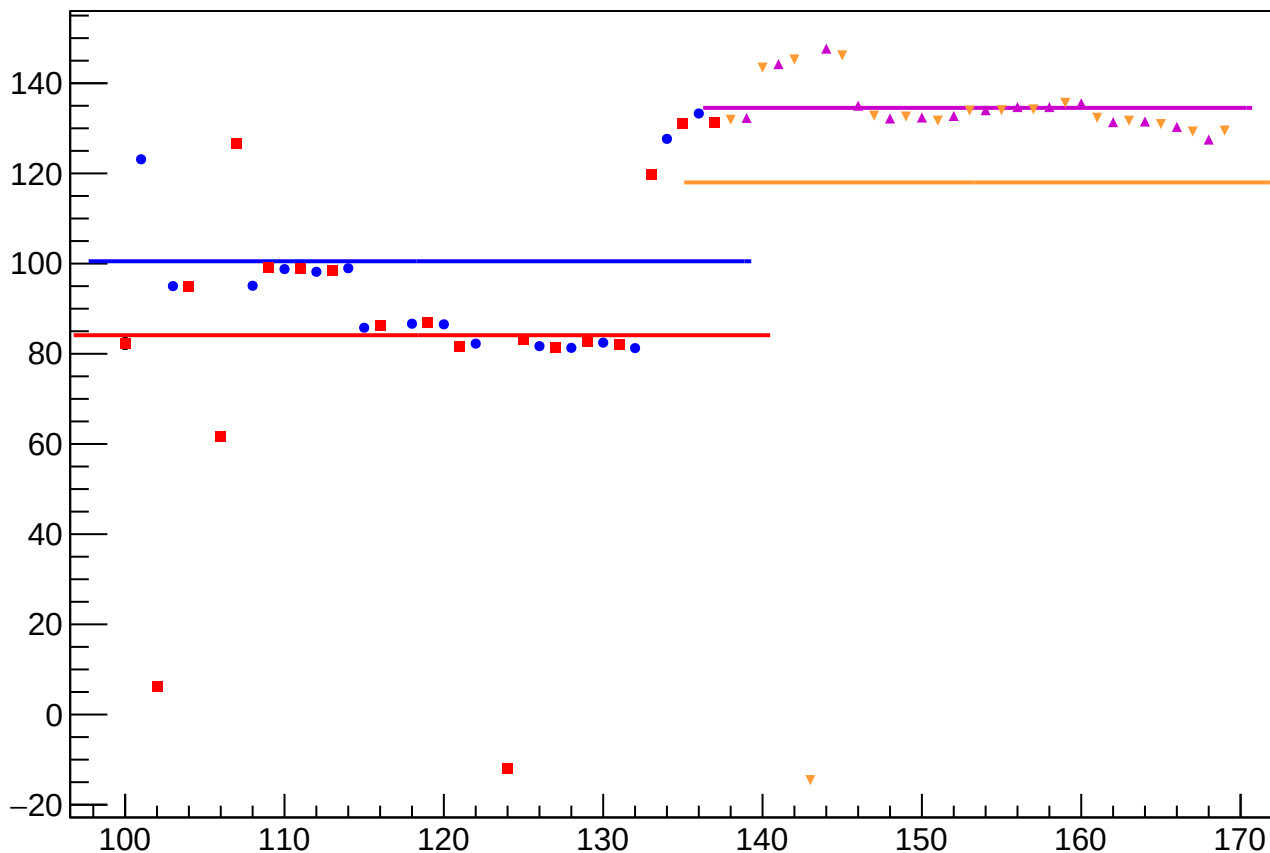
Right: -66.409 ± 0.830 $\chi^2/\text{NDF}: 845.6/34$

In: -73.446 ± 0.816 $\chi^2/\text{NDF}: 670.4/30$

Out: -68.192 ± 0.768 $\chi^2/\text{NDF}: 1094.2/35$

All: -70.660 ± 0.559 $\chi^2/\text{NDF}: 1786.6/66$

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 100.517±/-0.074 χ^2/NDF : 67464.8/15

Left Out: 118.006±/-0.049 χ^2/NDF : 937017.2/16

Right Out: 84.116±/-0.069 χ^2/NDF : 263788.9/18

Left In: 134.537±/-0.052 χ^2/NDF : 8311.4/14

Left: 125.694±/-0.036 χ^2/NDF : 999076.9/31

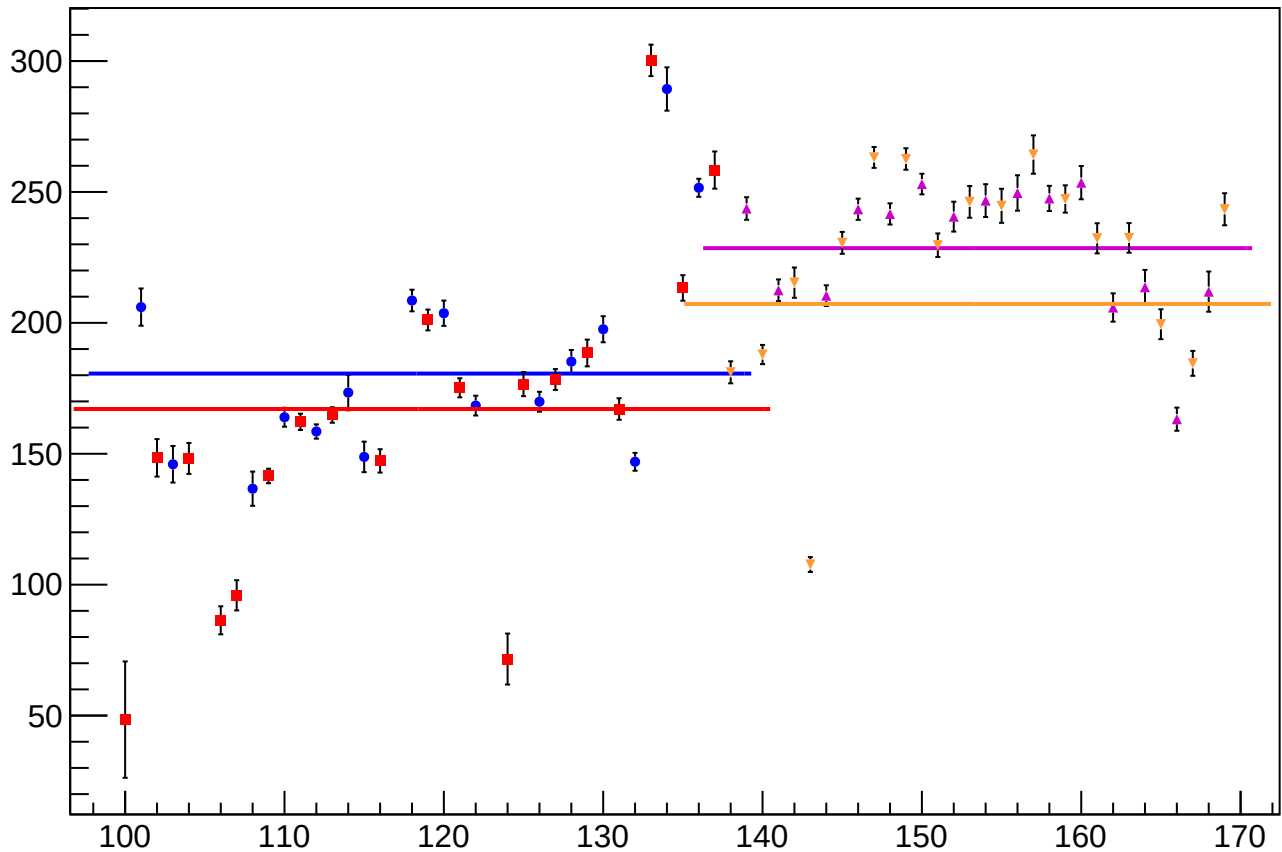
Right: 91.772±/-0.051 χ^2/NDF : 357470.2/34

In: 123.240±/-0.043 χ^2/NDF : 217083.1/30

Out: 106.805±/-0.040 χ^2/NDF : 1361350.0/35

All: 114.458±/-0.029 χ^2/NDF : 1657884.5/66

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 180.634 $\pm$ 1.090 χ^2 /NDF: 993.4/15

Left Out: 207.229 $\pm$ 1.130 χ^2 /NDF:2022.4/16

Right Out: 167.102 $\pm$ 1.021 χ^2 /NDF: 1484.6/18

Left In: 228.533 $\pm$ 1.256 χ^2 /NDF:410.3/14

Left: 216.760 $\pm$ 0.840 χ^2 /NDF: 2591.7/31

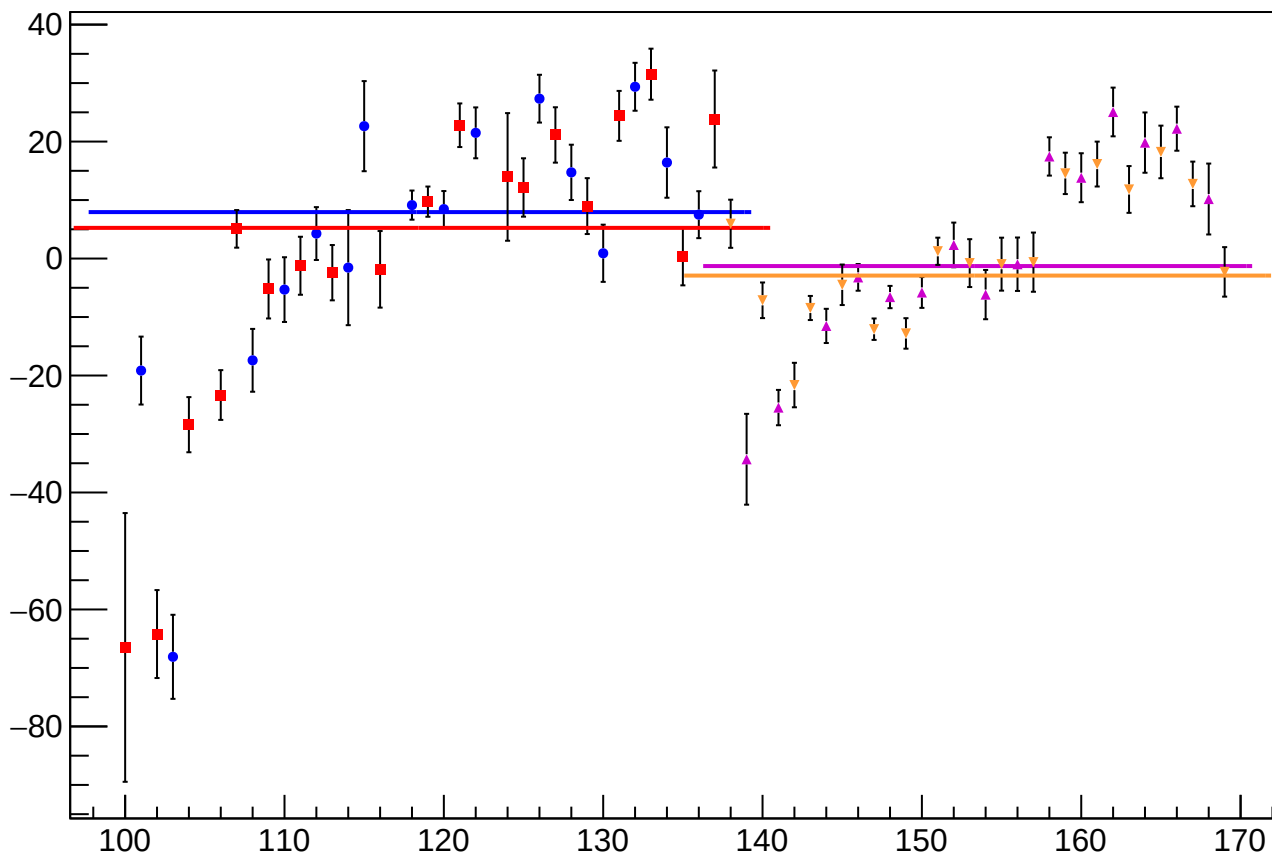
Right: 173.427 $\pm$ 0.745 χ^2 /NDF: 2560.1/34

In: 201.200 $\pm$ 0.823 χ^2 /NDF:2233.4/30

Out: 185.130 $\pm$ 0.758 χ^2 /NDF:4201.2/35

All: 192.499 $\pm$ 0.557 χ^2 /NDF: 6641.0/66

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.942 ± 1.113 χ^2/NDF : 232.9/15

Left Out: -2.912 ± 0.763 χ^2/NDF : 183.2/16

Right Out: 5.244 ± 1.062 χ^2/NDF : 302.9/18

Left In: -1.285 ± 0.854 χ^2/NDF : 253.2/14

Left: -2.190 ± 0.569 χ^2/NDF : 438.3/31

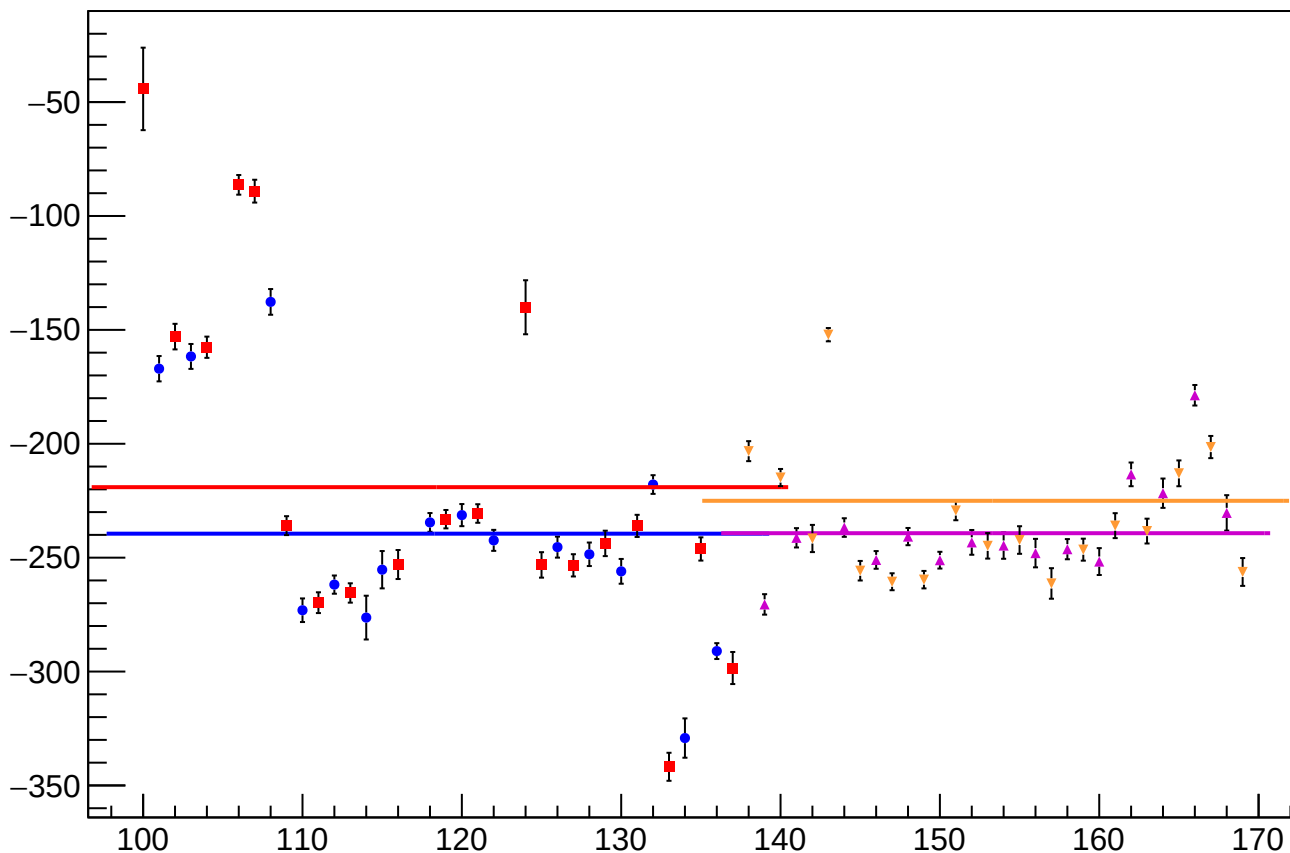
Right: 6.530 ± 0.768 χ^2/NDF : 538.9/34

In: 2.133 ± 0.678 χ^2/NDF : 529.3/30

Out: -0.135 ± 0.620 χ^2/NDF : 525.0/35

All: 0.898 ± 0.457 χ^2/NDF : 1060.4/66

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -239.468 ± 1.245 χ^2/NDF : 1162.2/15

Left Out: -225.038 ± 1.112 χ^2/NDF : 1020.9/16

Right Out: -219.053 ± 1.176 χ^2/NDF : 3049.3/18

Left In: -239.262 ± 1.221 χ^2/NDF : 292.9/14

Left: -231.490 ± 0.822 χ^2/NDF : 1387.9/31

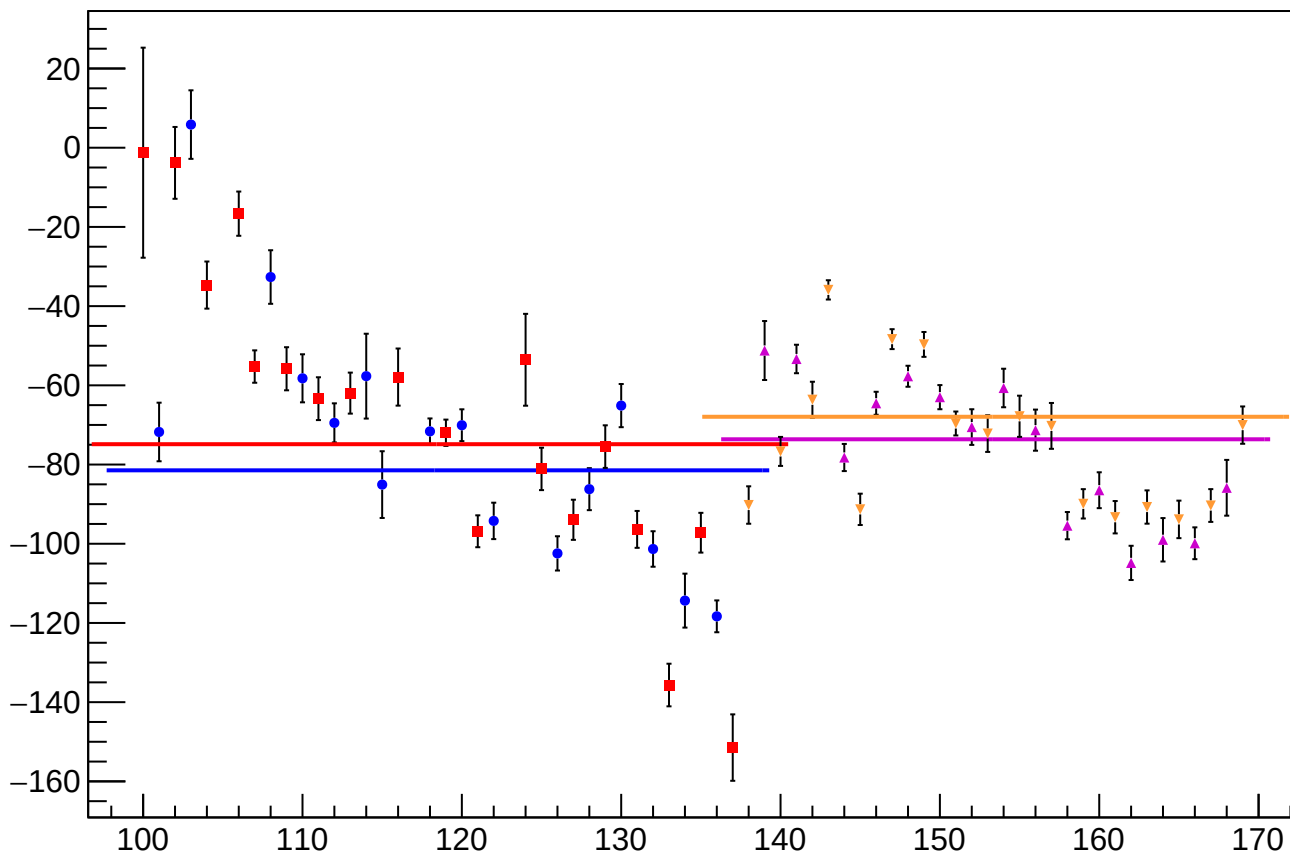
Right: -228.679 ± 0.855 χ^2/NDF : 4353.5/34

In: -239.363 ± 0.872 χ^2/NDF : 1455.1/30

Out: -222.212 ± 0.808 χ^2/NDF : 4083.8/35

All: -230.139 ± 0.593 χ^2/NDF : 5747.1/66

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -81.462 ± 1.287 $\chi^2/\text{NDF}: 366.5/15$

Left Out: -67.936 ± 0.905 $\chi^2/\text{NDF}: 495.2/16$

Right Out: -74.861 ± 1.230 $\chi^2/\text{NDF}: 576.6/18$

Left In: -73.622 ± 1.010 $\chi^2/\text{NDF}: 276.0/14$

Left: -70.468 ± 0.674 $\chi^2/\text{NDF}: 788.8/31$

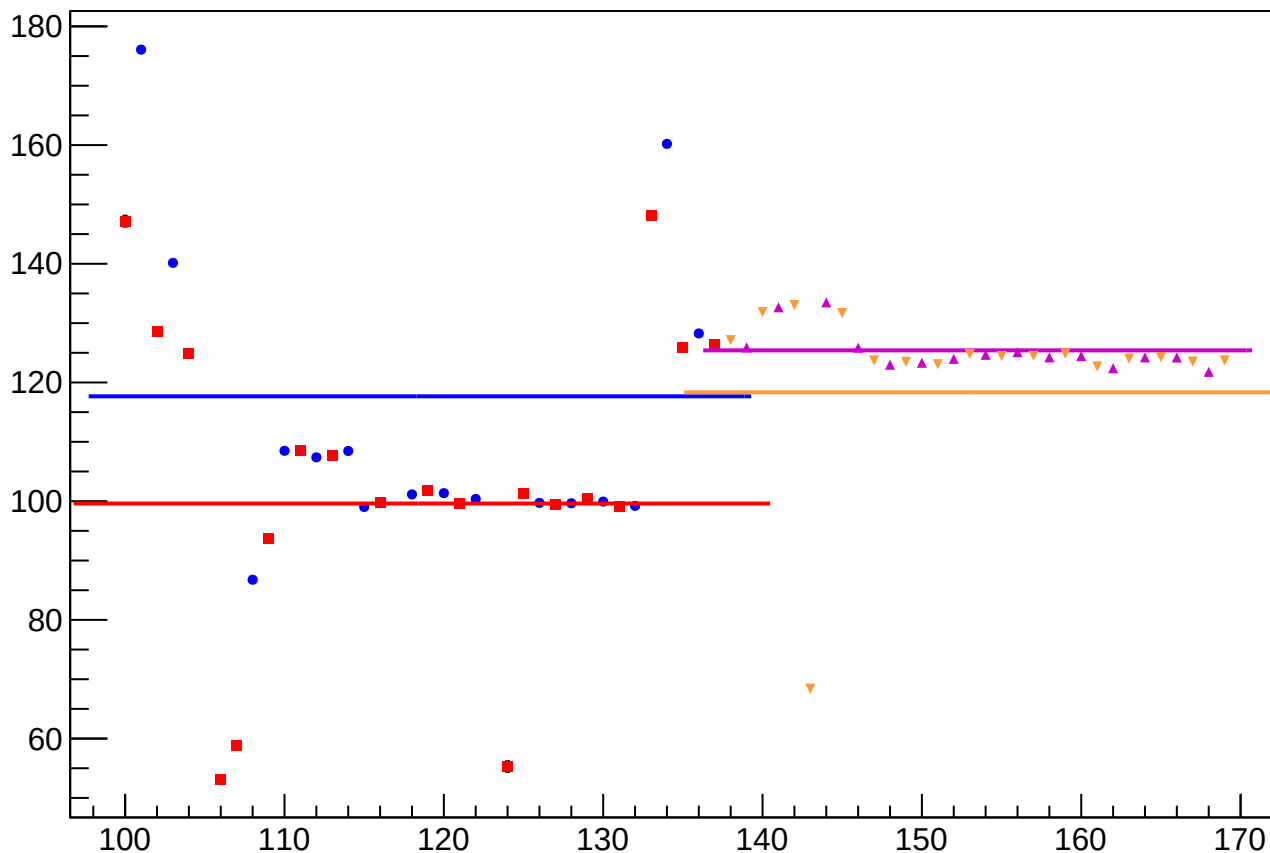
Right: -78.013 ± 0.889 $\chi^2/\text{NDF}: 956.9/34$

In: -76.611 ± 0.795 $\chi^2/\text{NDF}: 665.4/30$

Out: -70.369 ± 0.729 $\chi^2/\text{NDF}: 1092.4/35$

All: -73.222 ± 0.537 $\chi^2/\text{NDF}: 1791.3/66$

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 117.666 $\pm$ 0.078 χ^2 /NDF: 95397.2/15

Left Out: 118.343 $\pm$ 0.043 χ^2 /NDF: 198047.7/16

Right Out: 99.604 $\pm$ 0.070 χ^2 /NDF: 166236.0/18

Left In: 125.412 $\pm$ 0.047 χ^2 /NDF: 4811.0/14

Left: 121.601 $\pm$ 0.032 χ^2 /NDF: 215098.8/31

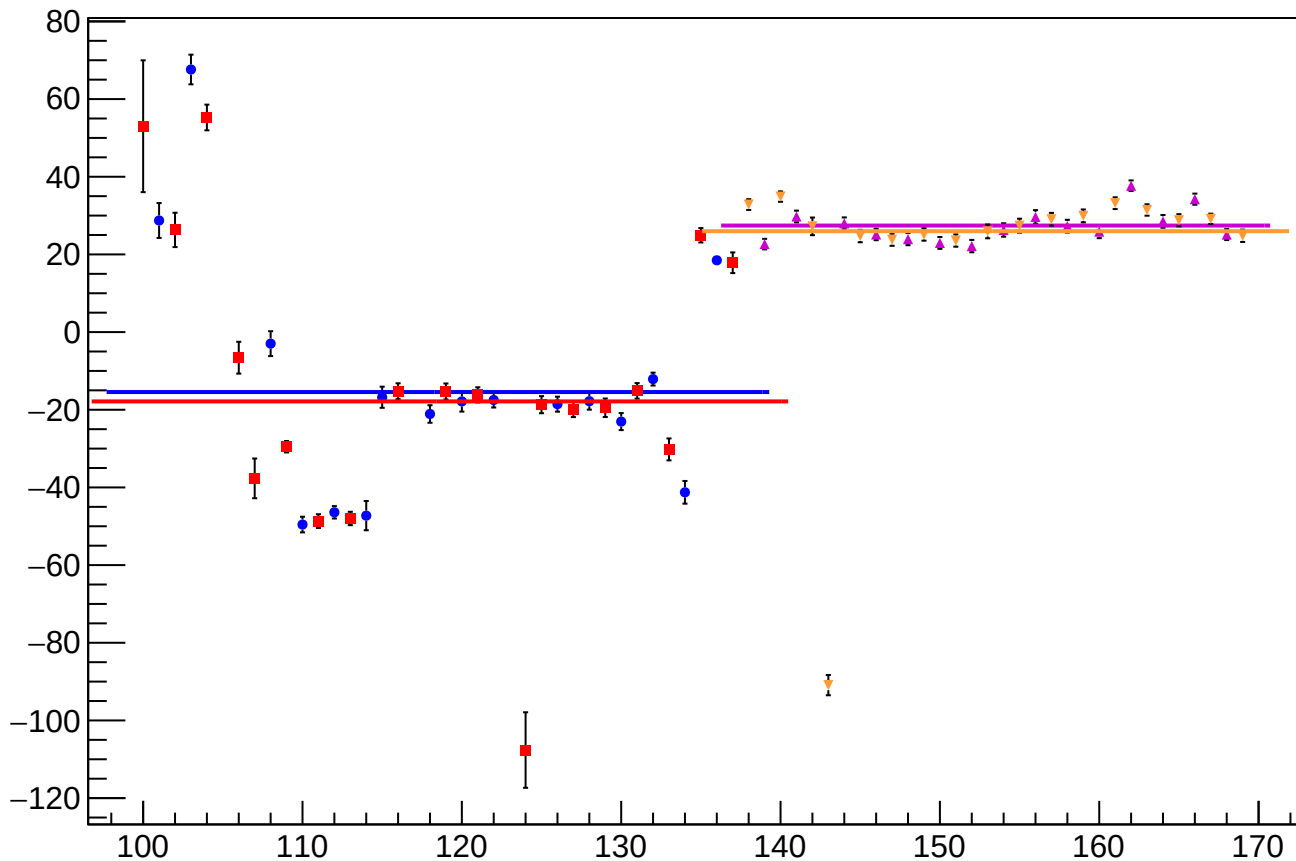
Right: 107.671 $\pm$ 0.052 χ^2 /NDF: 291112.6/34

In: 123.364 $\pm$ 0.040 χ^2 /NDF: 107416.1/30

Out: 113.175 $\pm$ 0.037 χ^2 /NDF: 415736.5/35

All: 117.832 $\pm$ 0.027 χ^2 /NDF: 557964.2/66

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.438 ± 0.539 χ^2/NDF : 2124.2/15

Left Out: 25.986 ± 0.388 χ^2/NDF : 2131.7/16

Right Out: -17.848 ± 0.530 χ^2/NDF : 2125.2/18

Left In: 27.431 ± 0.396 χ^2/NDF : 127.0/14

Left: 26.694 ± 0.277 χ^2/NDF : 2265.5/31

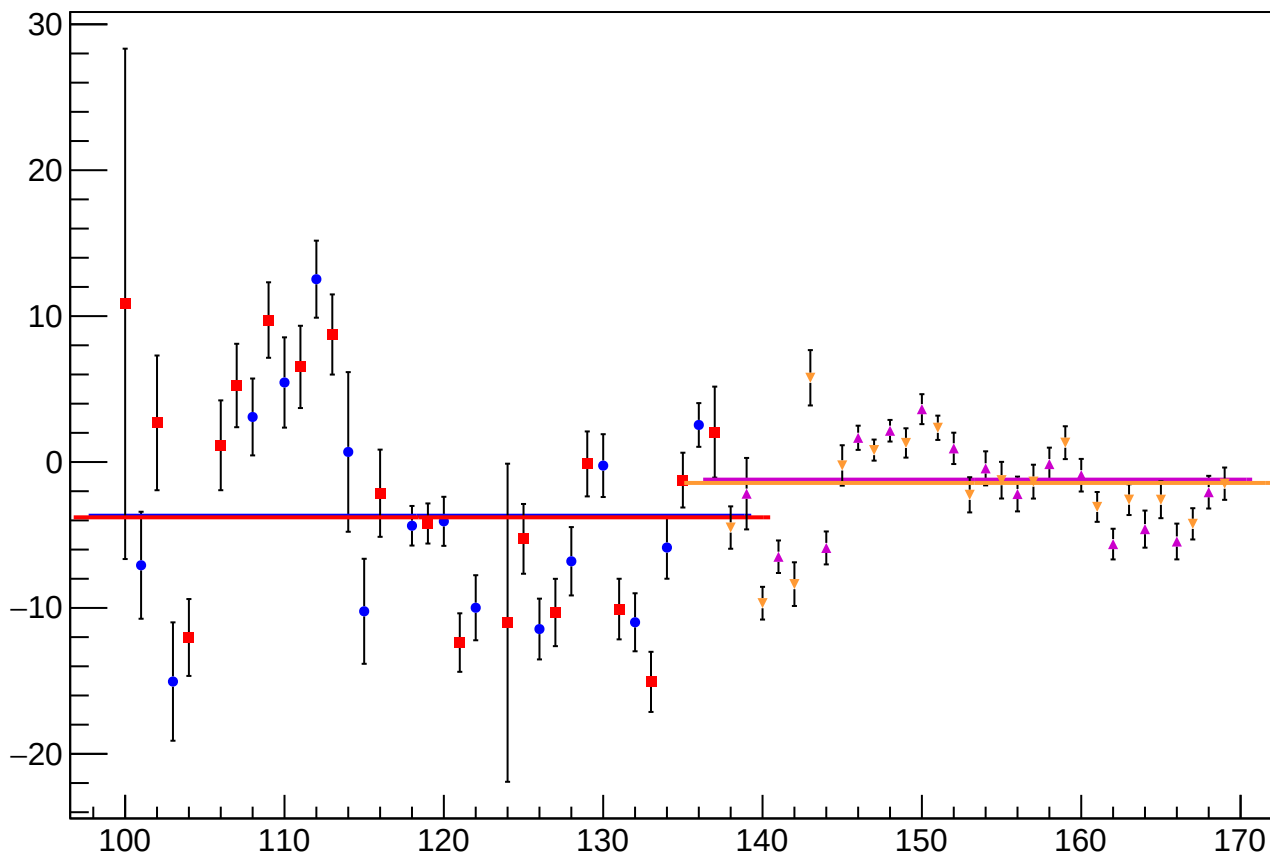
Right: -16.664 ± 0.378 χ^2/NDF : 4259.6/34

In: 12.403 ± 0.319 χ^2/NDF : 6358.7/30

Out: 10.656 ± 0.313 χ^2/NDF : 8711.0/35

All: 11.513 ± 0.224 χ^2/NDF : 15085.0/66

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.679 ± 0.552 $\chi^2/\text{NDF}: 124.0/15$

Left Out: -1.432 ± 0.268 $\chi^2/\text{NDF}: 150.9/16$

Right Out: -3.790 ± 0.564 $\chi^2/\text{NDF}: 161.2/18$

Left In: -1.207 ± 0.279 $\chi^2/\text{NDF}: 137.8/14$

Left: -1.324 ± 0.193 $\chi^2/\text{NDF}: 289.0/31$

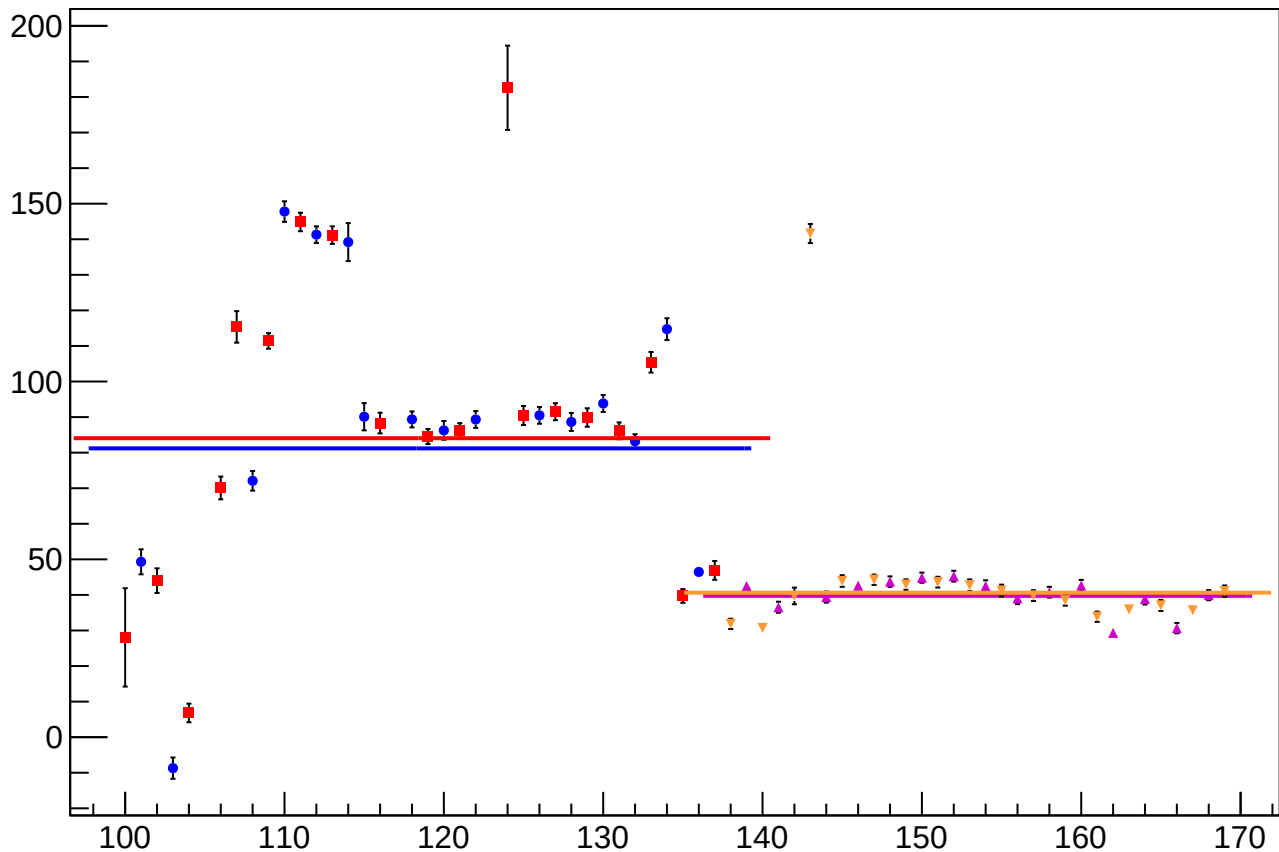
Right: -3.734 ± 0.394 $\chi^2/\text{NDF}: 285.2/34$

In: -1.709 ± 0.249 $\chi^2/\text{NDF}: 277.8/30$

Out: -1.868 ± 0.242 $\chi^2/\text{NDF}: 326.3/35$

All: -1.791 ± 0.174 $\chi^2/\text{NDF}: 604.3/66$

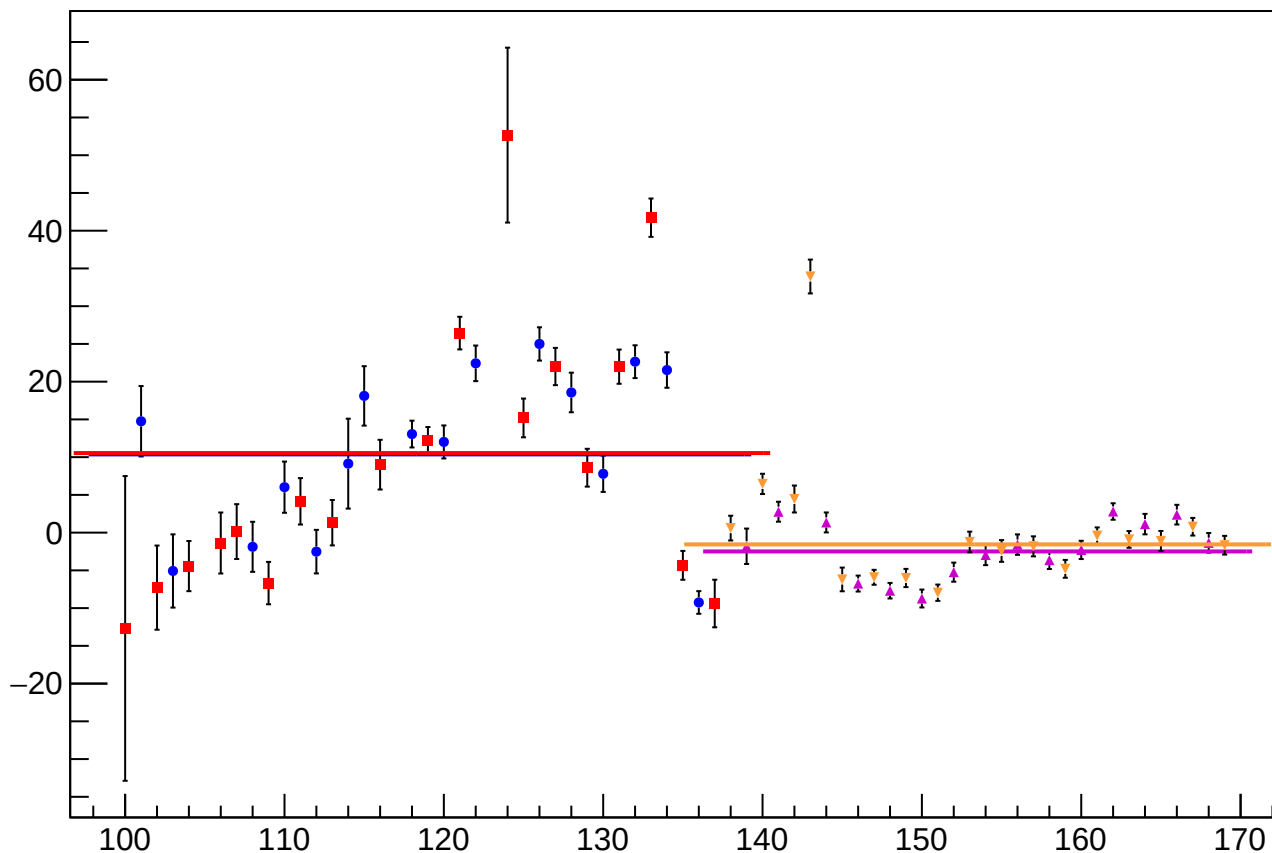
reg_asym_atl_dd_atr_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 81.203 ± 0.607 $\chi^2/\text{NDF}: 3230.5/15$
 Left Out: 40.620 ± 0.379 $\chi^2/\text{NDF}: 1573.1/16$
 Right Out: 84.065 ± 0.616 $\chi^2/\text{NDF}: 3206.5/18$
 Left In: 39.736 ± 0.385 $\chi^2/\text{NDF}: 154.7/14$

Left: 40.185 ± 0.270 $\chi^2/\text{NDF}: 1730.5/31$
 Right: 82.612 ± 0.432 $\chi^2/\text{NDF}: 6447.9/34$
 In: 51.623 ± 0.325 $\chi^2/\text{NDF}: 6713.6/30$
 Out: 52.533 ± 0.323 $\chi^2/\text{NDF}: 8386.6/35$
 All: 52.081 ± 0.229 $\chi^2/\text{NDF}: 15104.2/66$

reg_asym_atl_dd_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.367 ± 0.627 $\chi^2/\text{NDF}: 359.8/15$

Left Out: -1.556 ± 0.311 $\chi^2/\text{NDF}: 390.0/16$

Right Out: 10.539 ± 0.640 $\chi^2/\text{NDF}: 470.7/18$

Left In: -2.494 ± 0.323 $\chi^2/\text{NDF}: 145.4/14$

Left: -2.007 ± 0.224 $\chi^2/\text{NDF}: 539.8/31$

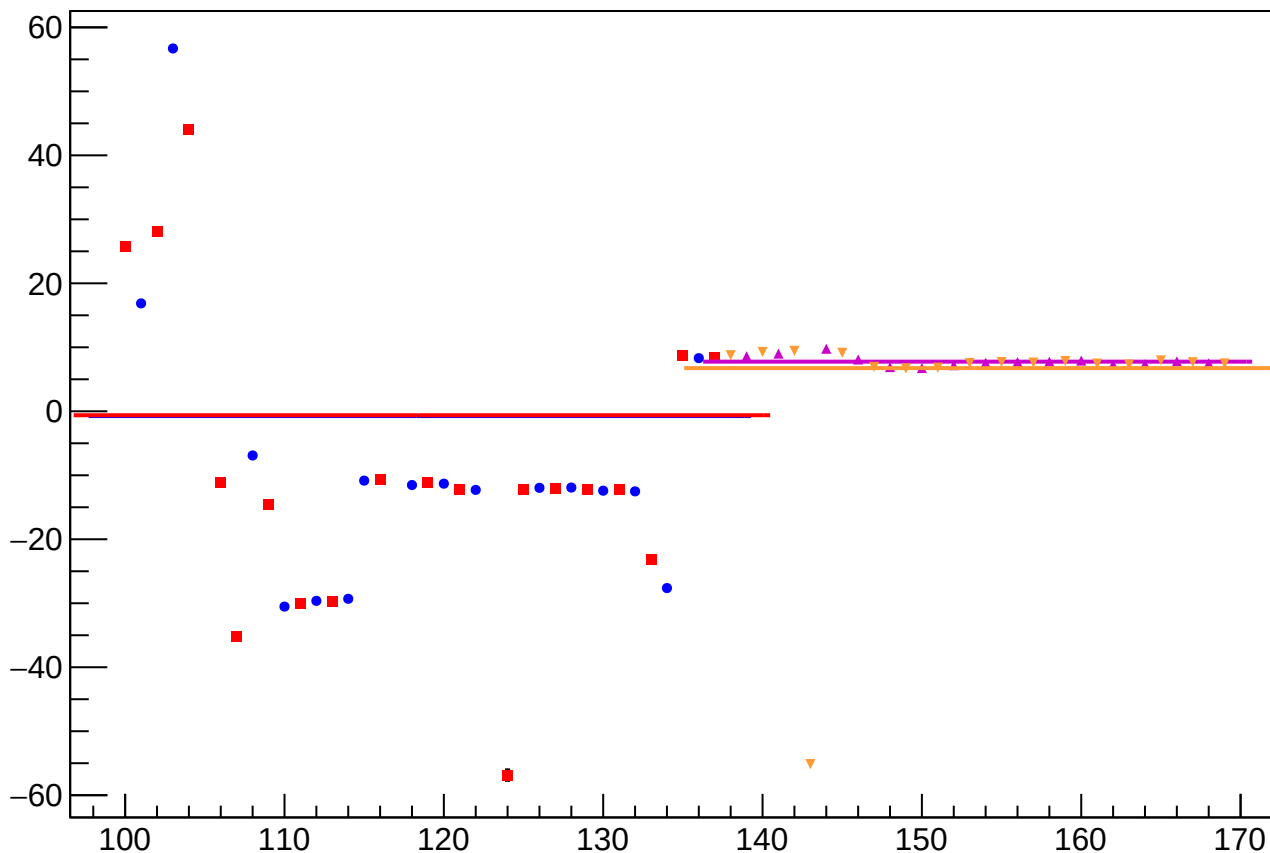
Right: 10.451 ± 0.448 $\chi^2/\text{NDF}: 830.5/34$

In: 0.211 ± 0.287 $\chi^2/\text{NDF}: 837.9/30$

Out: 0.754 ± 0.280 $\chi^2/\text{NDF}: 1149.5/35$

All: 0.490 ± 0.200 $\chi^2/\text{NDF}: 1989.3/66$

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.745 ± 0.036 χ^2/NDF : 367993.9/15

Left Out: 6.749 ± 0.014 χ^2/NDF : 314259.0/16

Right Out: -0.618 ± 0.037 χ^2/NDF : 316492.6/18

Left In: 7.757 ± 0.014 χ^2/NDF : 2321.5/14

Left: 7.246 ± 0.010 χ^2/NDF : 319073.3/31

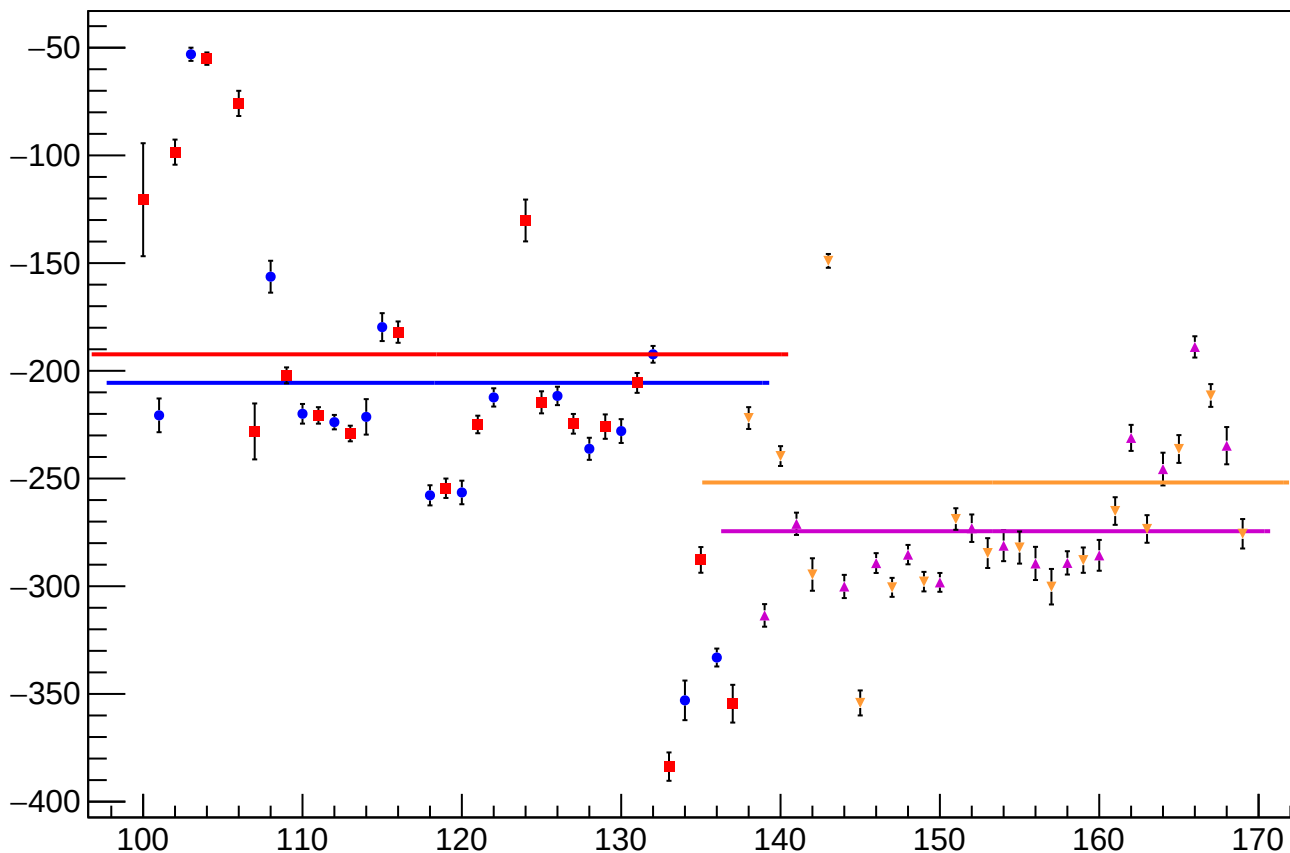
Right: -0.684 ± 0.026 χ^2/NDF : 684492.5/34

In: 6.581 ± 0.013 χ^2/NDF : 418700.0/30

Out: 5.820 ± 0.013 χ^2/NDF : 664788.1/35

All: 6.198 ± 0.009 χ^2/NDF : 1085123.8/66

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -205.577+/-1.185 χ^2/NDF : 4056.0/15

Left Out: -251.840+/-1.309 χ^2/NDF :1852.6/16

Right Out: -192.345+/-1.123 χ^2/NDF : 4969.8/18

Left In: -274.462+/-1.458 χ^2/NDF :525.4/14

Left: -261.939+/-0.974 χ^2/NDF : 2511.3/31

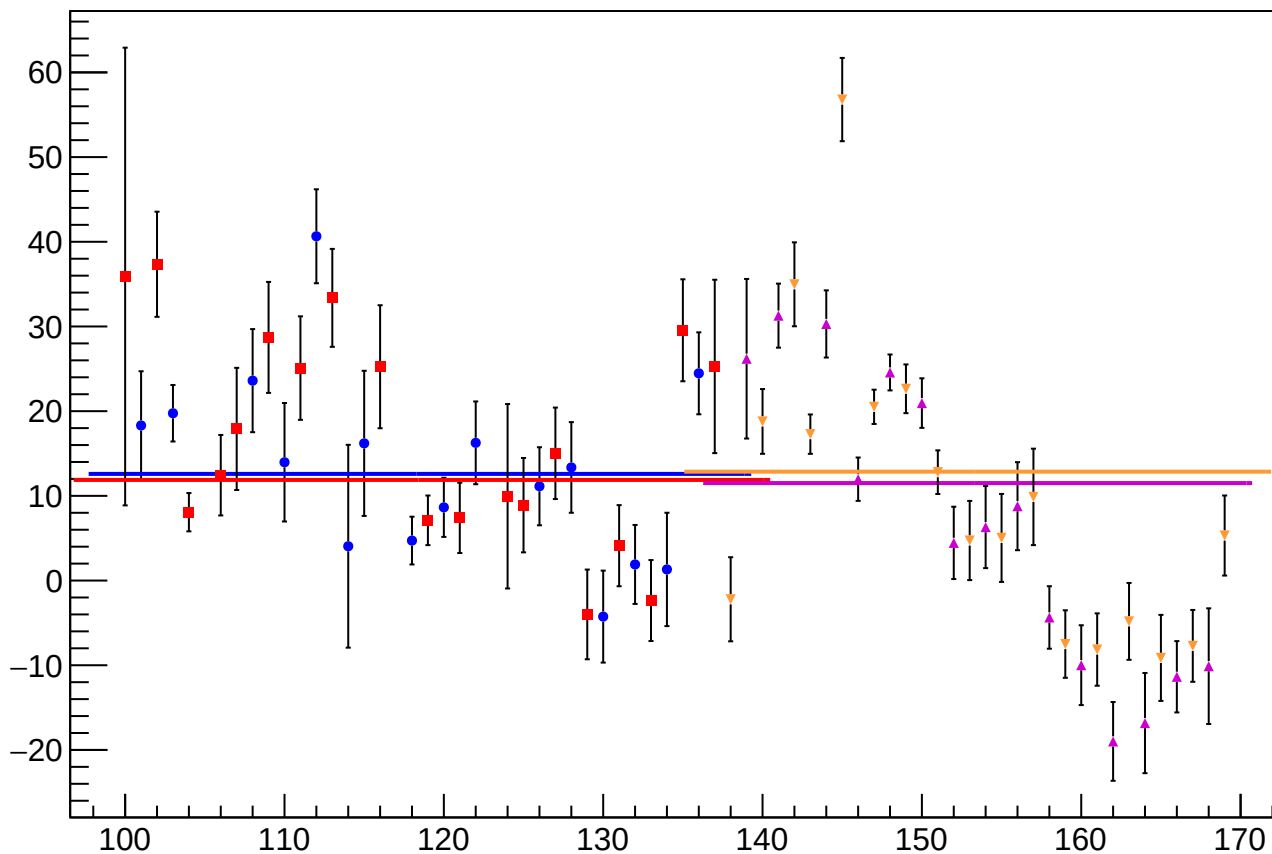
Right: -198.605+/-0.815 χ^2/NDF : 9091.6/34

In: -232.967+/-0.920 χ^2/NDF :5925.7/30

Out: -217.545+/-0.852 χ^2/NDF :8012.4/35

All: -224.671+/-0.625 χ^2/NDF : 14089.4/66

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.592 ± 1.203 χ^2/NDF : 68.5/15

Left Out: 12.857 ± 0.873 χ^2/NDF : 256.7/16

Right Out: 11.880 ± 1.122 χ^2/NDF : 84.9/18

Left In: 11.512 ± 0.980 χ^2/NDF : 249.6/14

Left: 12.261 ± 0.652 χ^2/NDF : 507.3/31

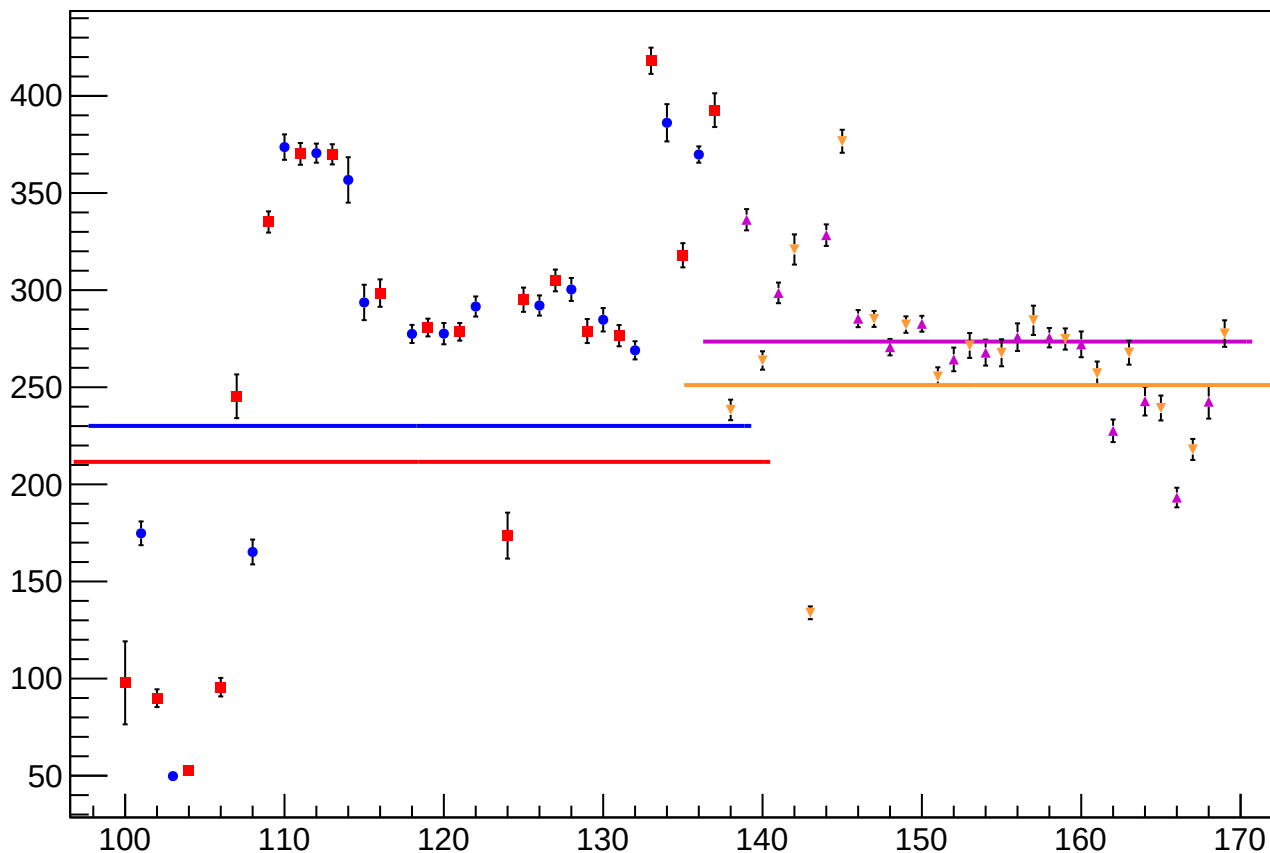
Right: 12.211 ± 0.820 χ^2/NDF : 153.6/34

In: 11.943 ± 0.760 χ^2/NDF : 318.5/30

Out: 12.488 ± 0.689 χ^2/NDF : 342.1/35

All: 12.242 ± 0.510 χ^2/NDF : 660.9/66

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 230.095 ± 1.260 $\chi^2/\text{NDF}: 9375.6/15$

Left Out: 251.117 ± 1.284 $\chi^2/\text{NDF}: 2048.6/16$

Right Out: 211.588 ± 1.195 $\chi^2/\text{NDF}: 11472.1/18$

Left In: 273.508 ± 1.412 $\chi^2/\text{NDF}: 613.6/14$

Left: 261.254 ± 0.950 $\chi^2/\text{NDF}: 2799.8/31$

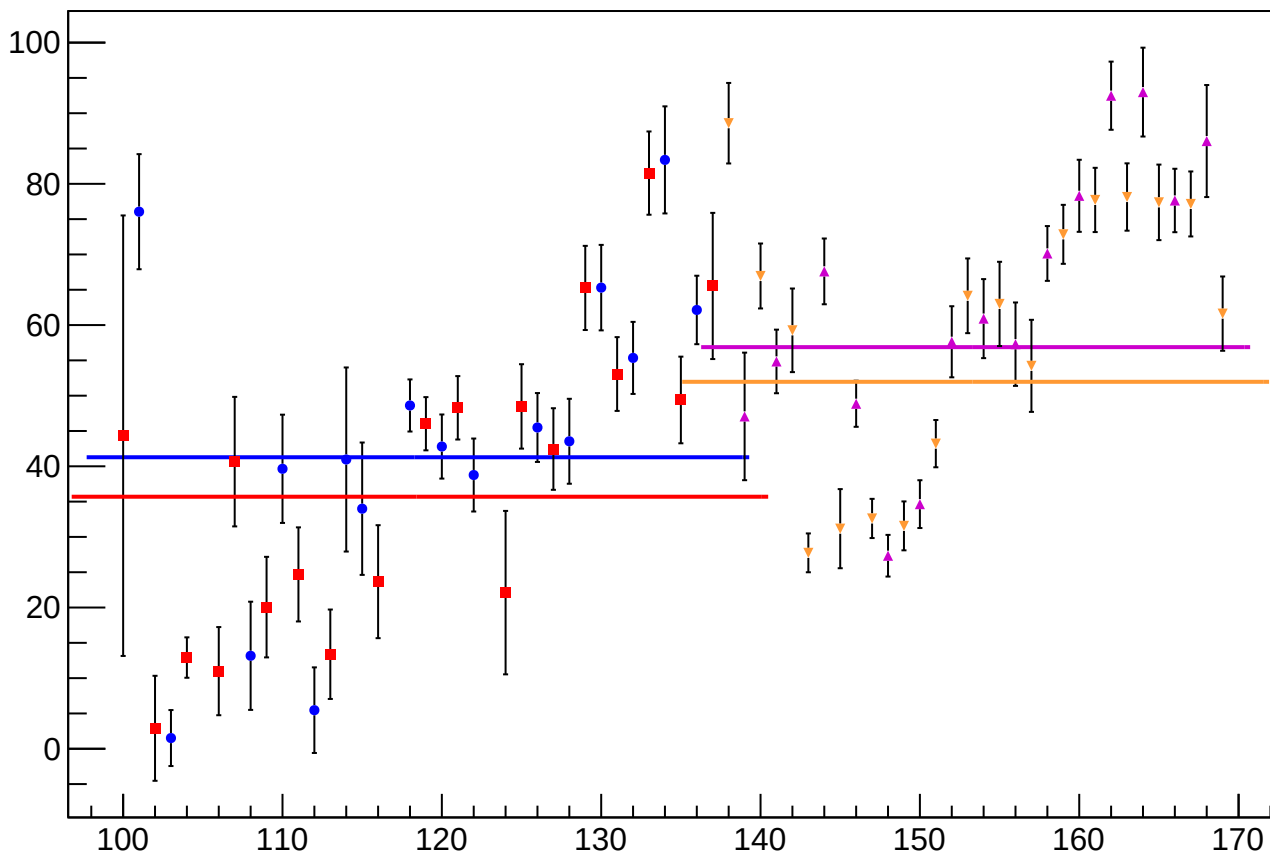
Right: 220.357 ± 0.867 $\chi^2/\text{NDF}: 20961.4/34$

In: 249.333 ± 0.940 $\chi^2/\text{NDF}: 10515.6/30$

Out: 229.934 ± 0.875 $\chi^2/\text{NDF}: 14028.3/35$

All: 238.940 ± 0.640 $\chi^2/\text{NDF}: 24772.1/66$

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 41.282 ± 1.398 χ^2/NDF : 245.8/15

Left Out: 51.966 ± 1.038 χ^2/NDF : 386.8/16

Right Out: 35.692 ± 1.317 χ^2/NDF : 253.2/18

Left In: 56.875 ± 1.161 χ^2/NDF : 308.2/14

Left: 54.147 ± 0.774 χ^2/NDF : 704.9/31

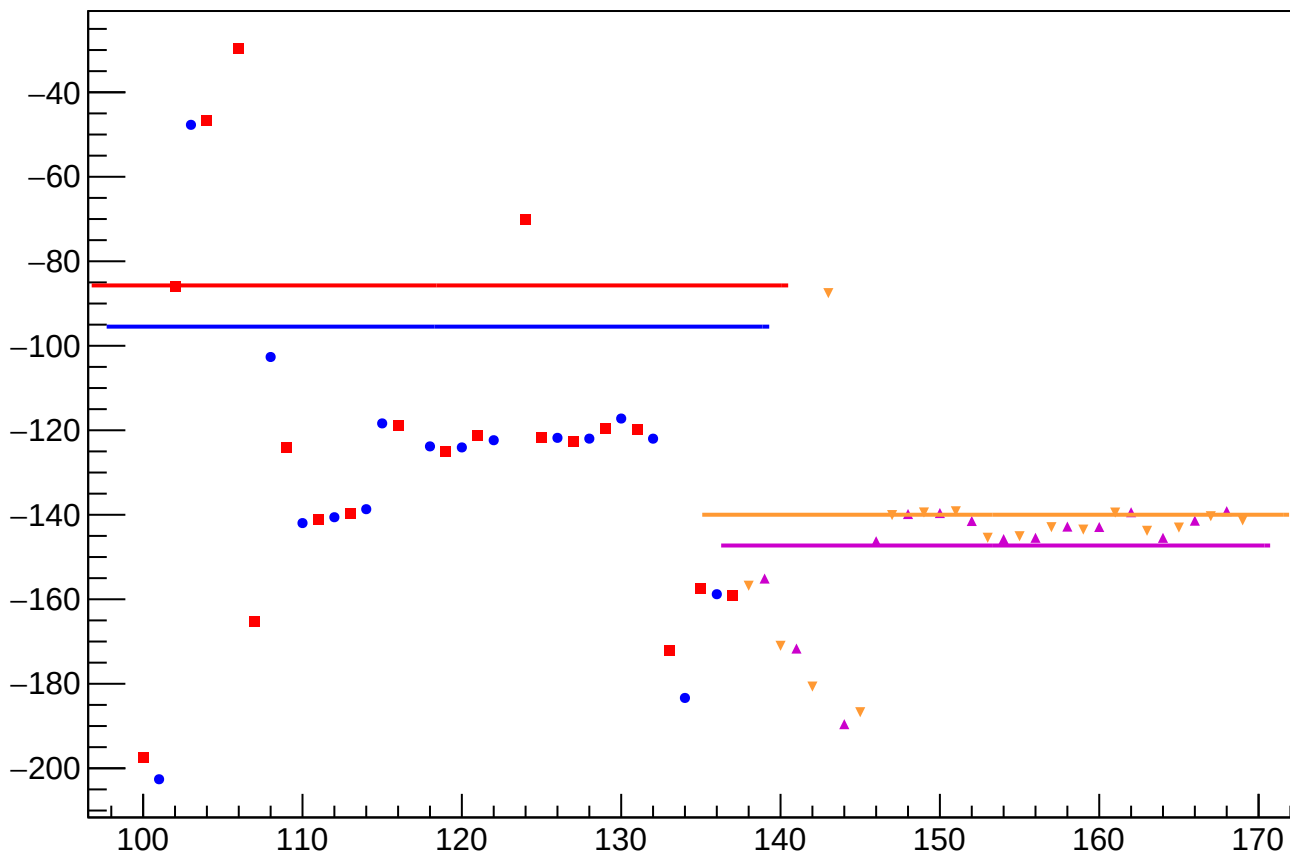
Right: 38.321 ± 0.958 χ^2/NDF : 507.4/34

In: 50.509 ± 0.893 χ^2/NDF : 627.6/30

Out: 45.731 ± 0.815 χ^2/NDF : 734.2/35

All: 47.903 ± 0.602 χ^2/NDF : 1377.4/66

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -95.468 ± 0.069 $\chi^2/\text{NDF}: 519953.8/15$

Left Out: -139.989 ± 0.050 $\chi^2/\text{NDF}: 231525.5/16$

Right Out: -85.716 ± 0.067 $\chi^2/\text{NDF}: 482604.9/18$

Left In: -147.273 ± 0.054 $\chi^2/\text{NDF}: 51899.3/14$

Left: -143.344 ± 0.037 $\chi^2/\text{NDF}: 293212.6/31$

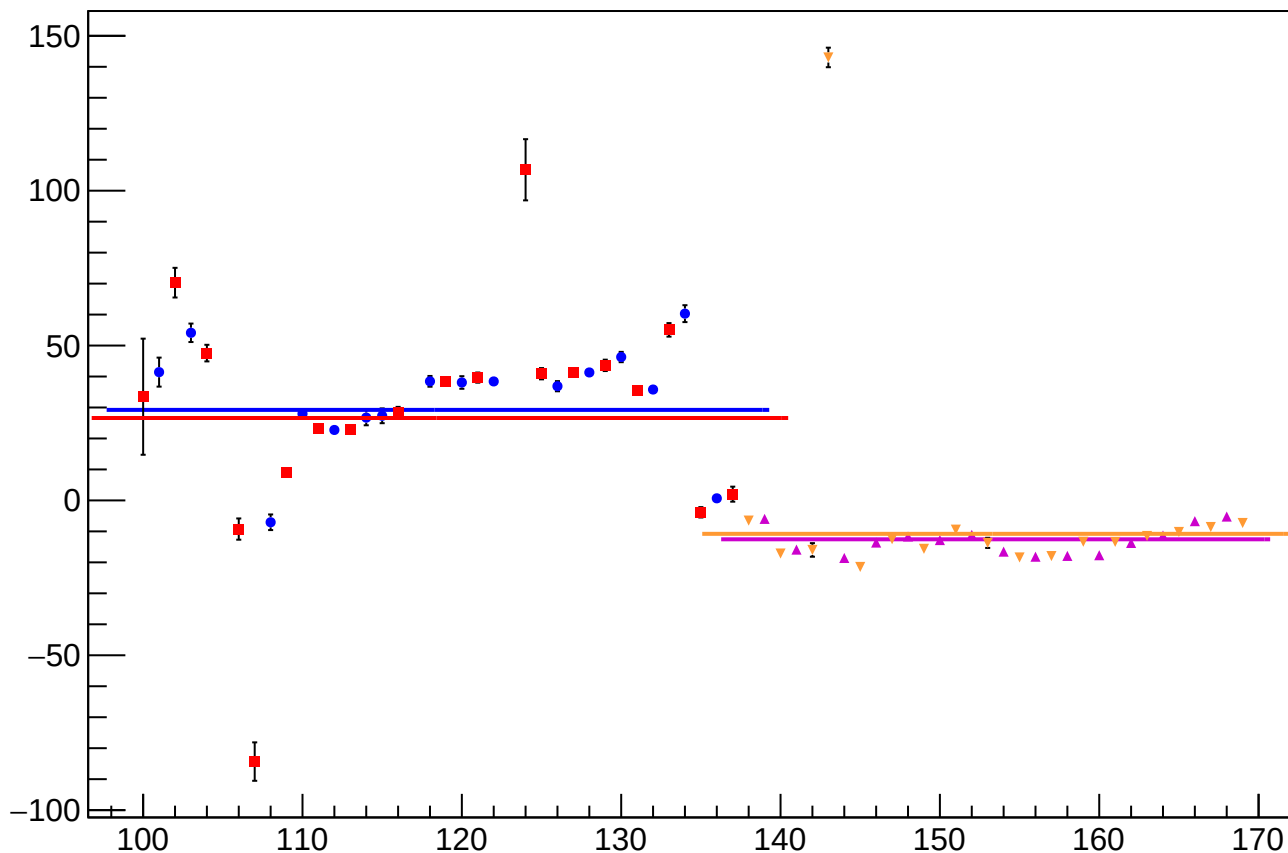
Right: -90.413 ± 0.048 $\chi^2/\text{NDF}: 1012777.7/34$

In: -127.722 ± 0.043 $\chi^2/\text{NDF}: 918261.7/30$

Out: -120.570 ± 0.040 $\chi^2/\text{NDF}: 1136148.0/35$

All: -123.920 ± 0.029 $\chi^2/\text{NDF}: 2069350.3/66$

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 29.229 ± 0.424 $\chi^2/\text{NDF}: 1342.9/15$

Left Out: -10.790 ± 0.364 $\chi^2/\text{NDF}: 2540.4/16$

Right Out: 26.609 ± 0.414 $\chi^2/\text{NDF}: 1920.6/18$

Left In: -12.559 ± 0.370 $\chi^2/\text{NDF}: 145.1/14$

Left: -11.660 ± 0.259 $\chi^2/\text{NDF}: 2697.1/31$

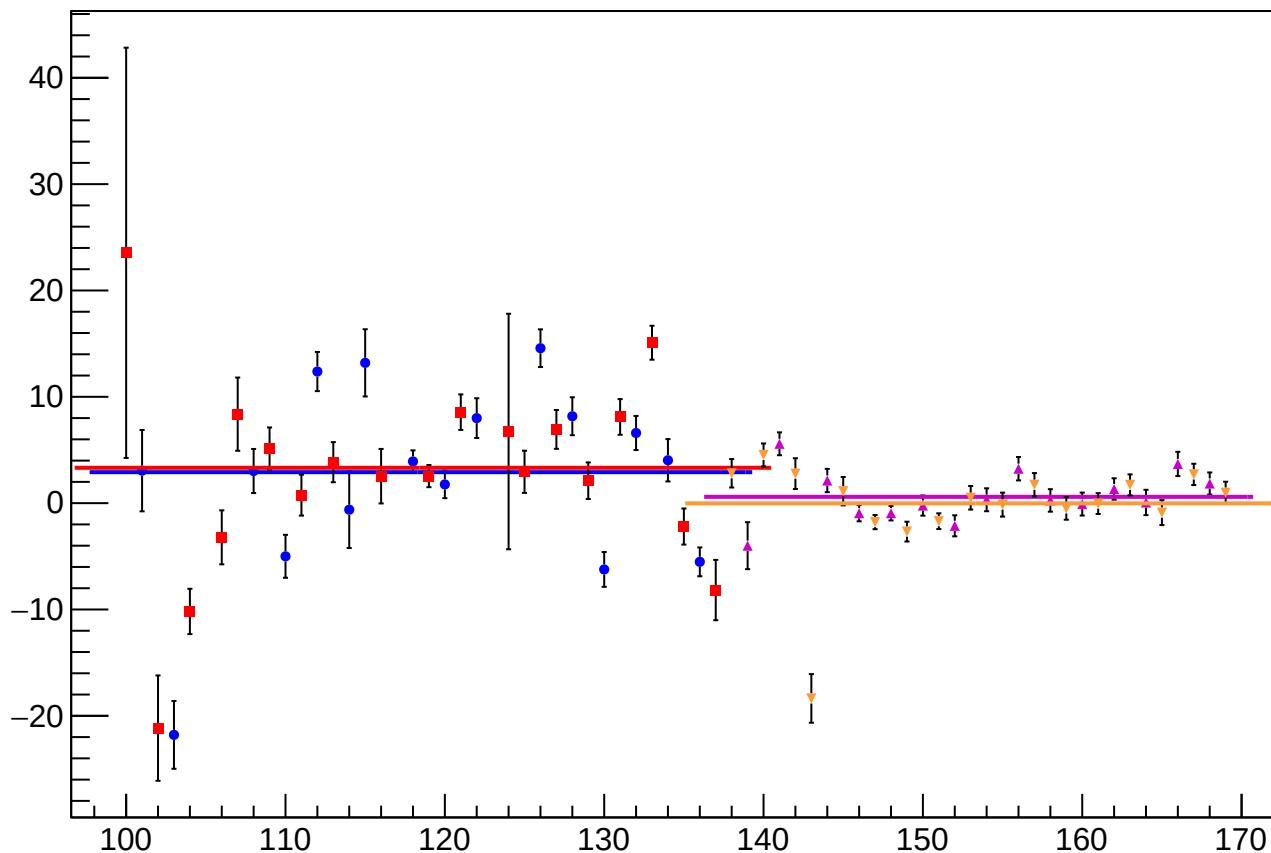
Right: 27.887 ± 0.296 $\chi^2/\text{NDF}: 3283.1/34$

In: 5.483 ± 0.279 $\chi^2/\text{NDF}: 7000.4/30$

Out: 5.507 ± 0.273 $\chi^2/\text{NDF}: 9063.7/35$

All: 5.495 ± 0.195 $\chi^2/\text{NDF}: 16064.1/66$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.912 ± 0.442 $\chi^2/\text{NDF}: 250.0/15$

Left Out: -0.018 ± 0.251 $\chi^2/\text{NDF}: 126.3/16$

Right Out: 3.326 ± 0.454 $\chi^2/\text{NDF}: 181.8/18$

Left In: 0.593 ± 0.261 $\chi^2/\text{NDF}: 61.2/14$

Left: 0.276 ± 0.181 $\chi^2/\text{NDF}: 190.3/31$

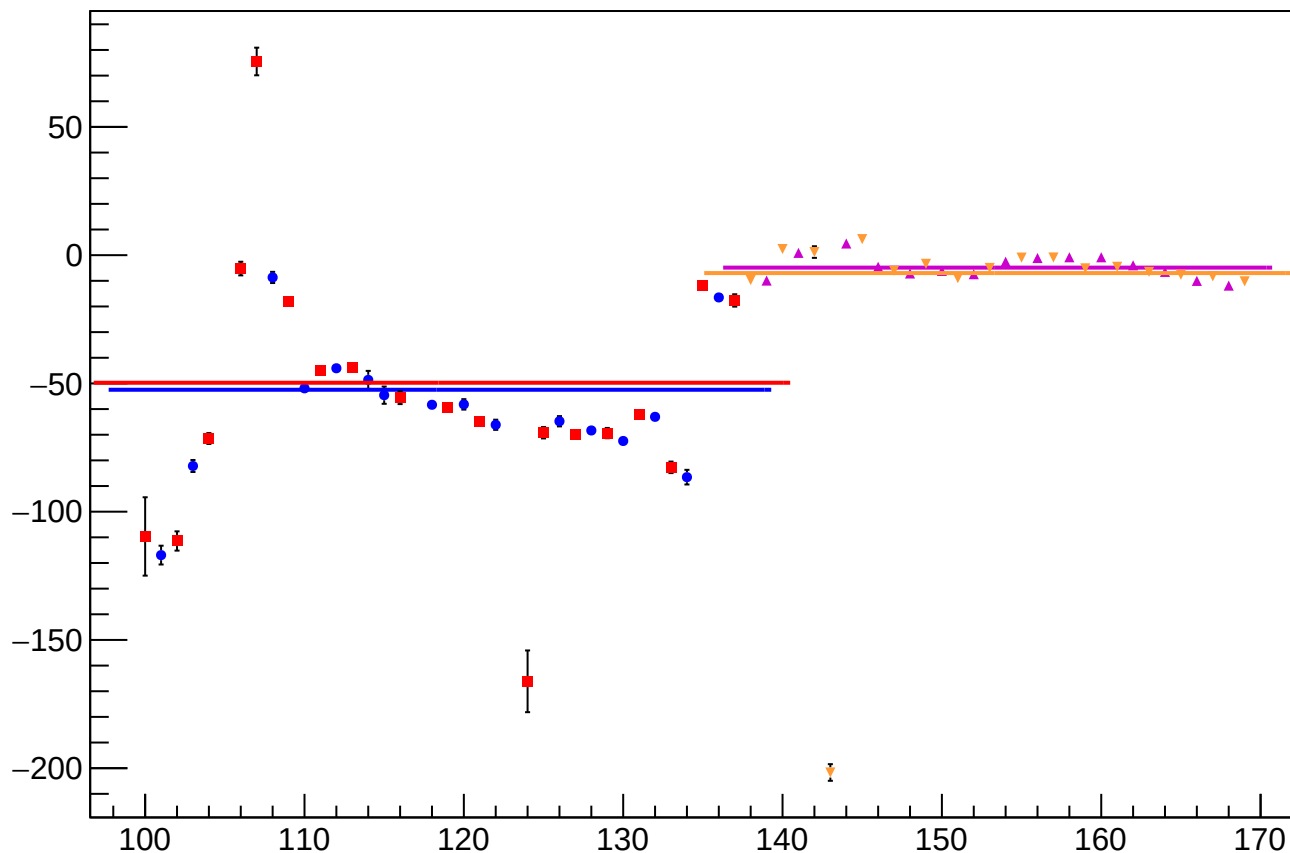
Right: 3.114 ± 0.317 $\chi^2/\text{NDF}: 432.2/34$

In: 1.190 ± 0.225 $\chi^2/\text{NDF}: 331.5/30$

Out: 0.764 ± 0.219 $\chi^2/\text{NDF}: 349.7/35$

All: 0.972 ± 0.157 $\chi^2/\text{NDF}: 683.1/66$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.467 ± 0.488 $\chi^2/\text{NDF}: 2330.2/15$

Left Out: -6.981 ± 0.355 $\chi^2/\text{NDF}: 3794.7/16$

Right Out: -49.734 ± 0.494 $\chi^2/\text{NDF}: 3009.7/18$

Left In: -4.854 ± 0.359 $\chi^2/\text{NDF}: 143.7/14$

Left: -5.932 ± 0.252 $\chi^2/\text{NDF}: 3956.1/31$

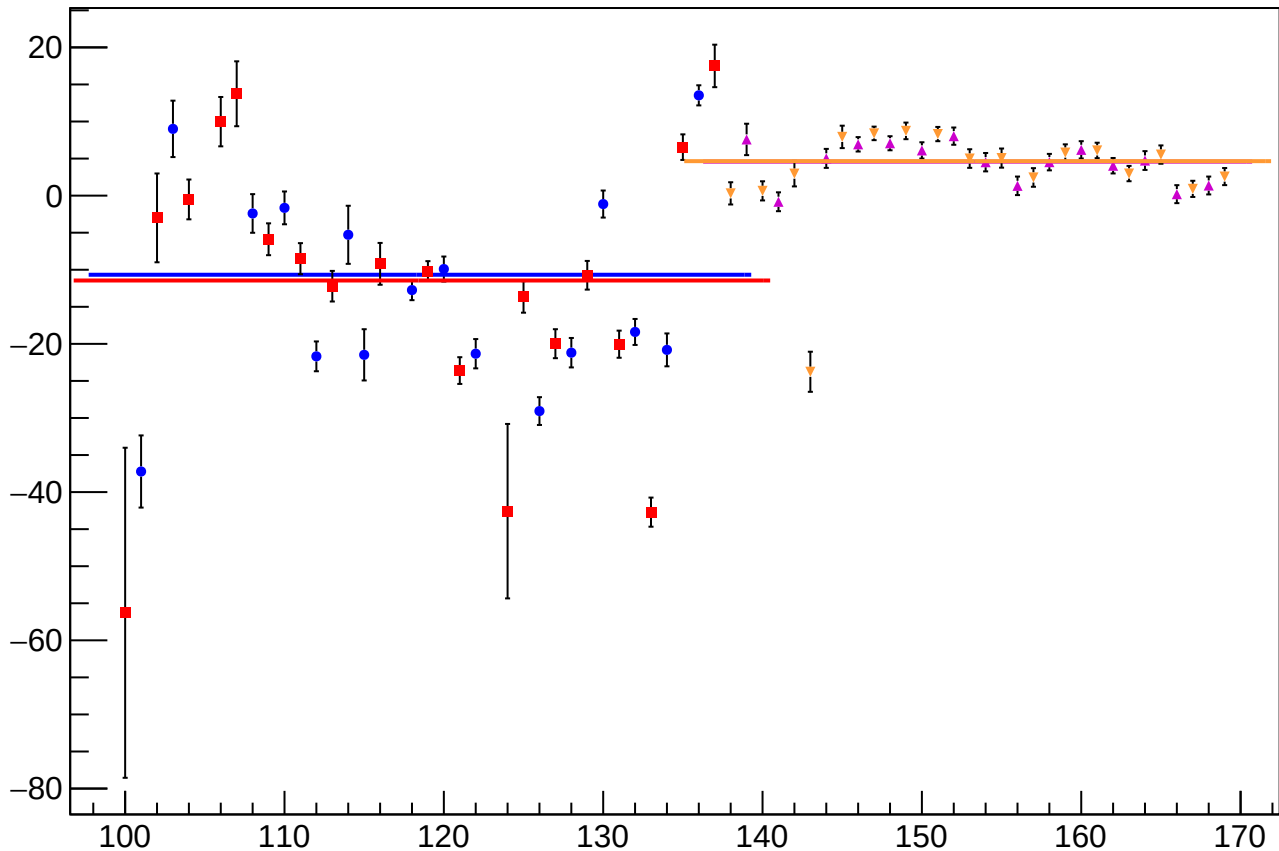
Right: -51.118 ± 0.347 $\chi^2/\text{NDF}: 5355.4/34$

In: -21.604 ± 0.289 $\chi^2/\text{NDF}: 8649.8/30$

Out: -21.516 ± 0.288 $\chi^2/\text{NDF}: 11747.1/35$

All: -21.560 ± 0.204 $\chi^2/\text{NDF}: 20397.0/66$

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.675 ± 0.505 χ^2/NDF : 666.4/15

Left Out: 4.651 ± 0.291 χ^2/NDF : 203.0/16

Right Out: -11.450 ± 0.516 χ^2/NDF : 665.7/18

Left In: 4.586 ± 0.302 χ^2/NDF : 72.6/14

Left: 4.620 ± 0.210 χ^2/NDF : 275.7/31

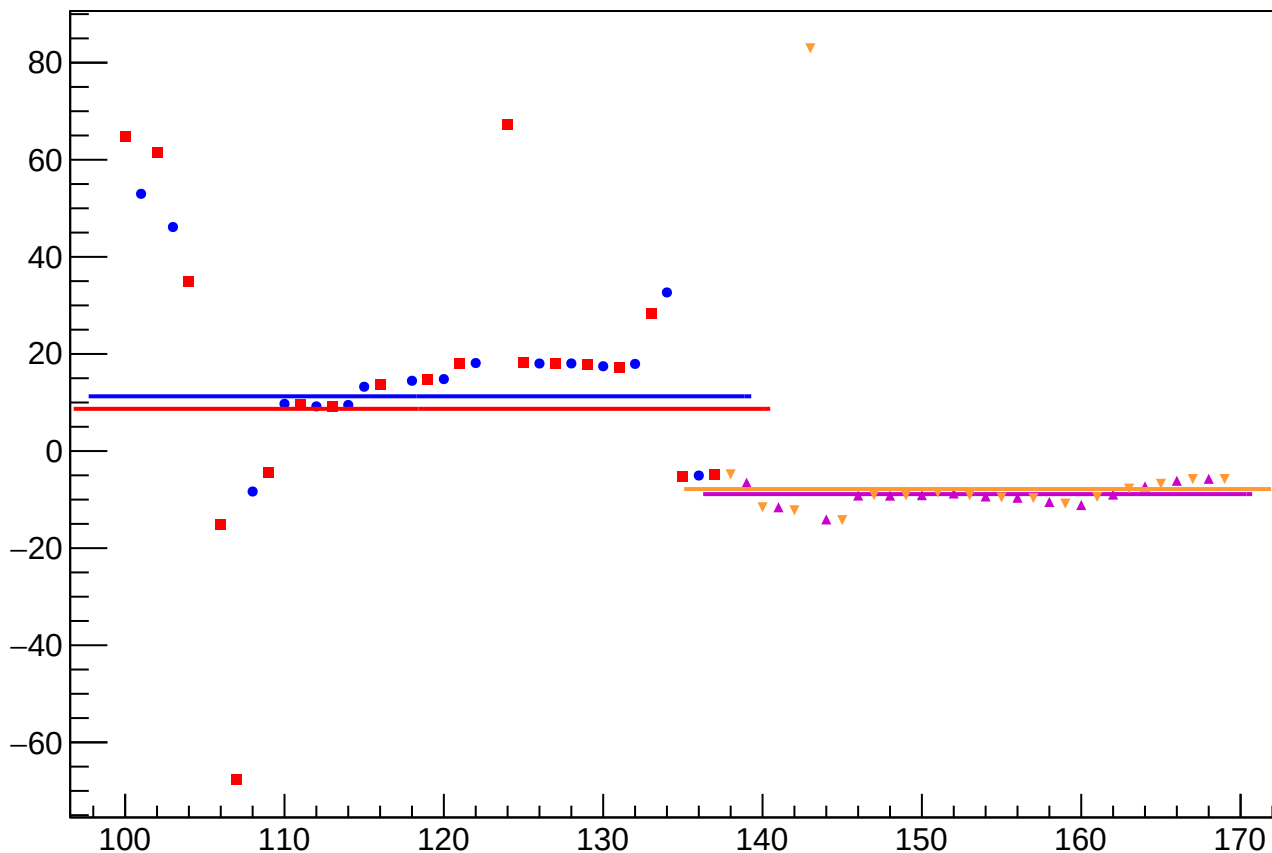
Right: -11.054 ± 0.361 χ^2/NDF : 1333.3/34

In: 0.562 ± 0.260 χ^2/NDF : 1410.2/30

Out: 0.766 ± 0.253 χ^2/NDF : 1607.3/35

All: 0.666 ± 0.181 χ^2/NDF : 3017.9/66

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 11.277+/-0.030 χ^2/NDF : 349346.9/15

Left Out: -7.826+/-0.013 χ^2/NDF : 485138.5/16

Right Out: 8.698+/-0.031 χ^2/NDF : 436156.0/18

Left In: -8.870+/-0.013 χ^2/NDF : 21878.4/14

Left: -8.342+/-0.009 χ^2/NDF : 510082.6/31

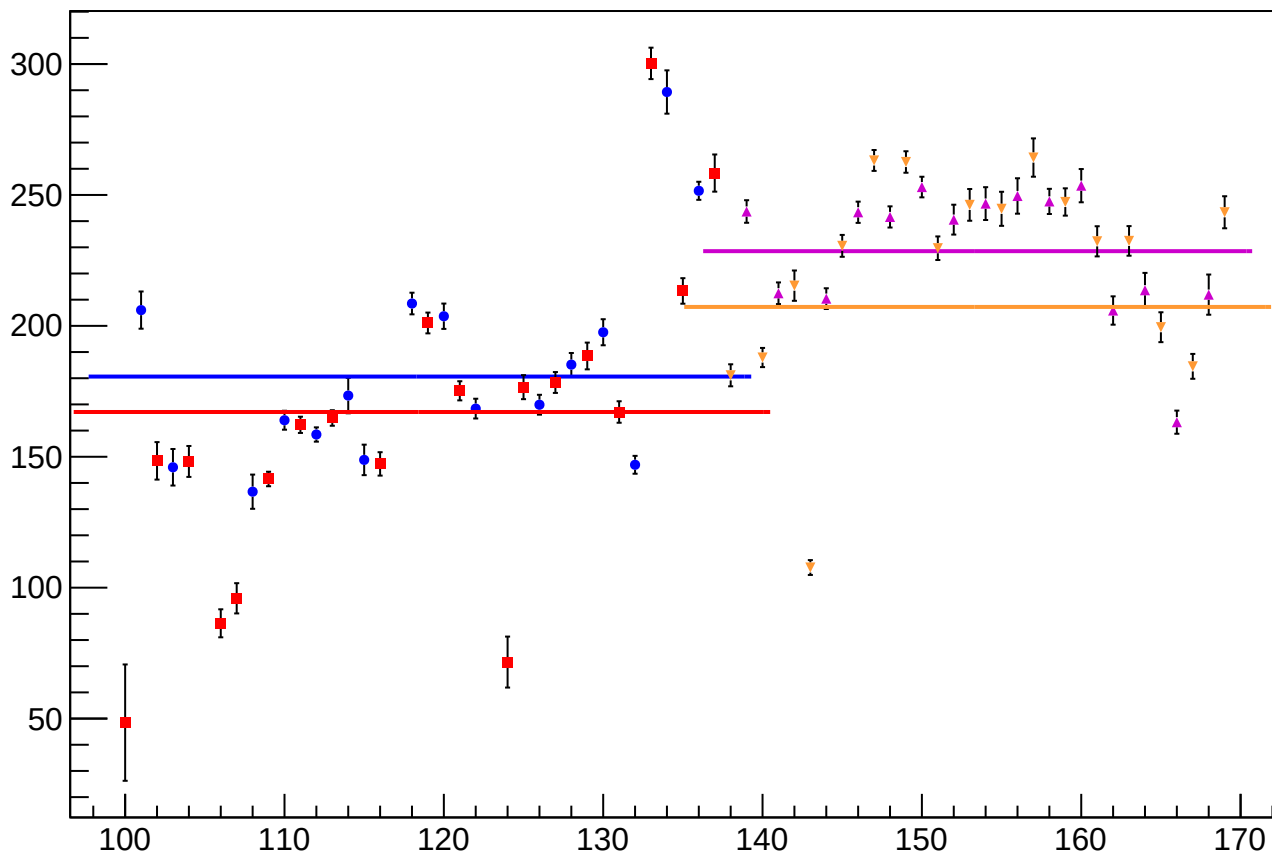
Right: 10.050+/-0.022 χ^2/NDF : 789035.8/34

In: -5.501+/-0.012 χ^2/NDF : 748748.2/30

Out: -5.332+/-0.012 χ^2/NDF : 1156108.9/35

All: -5.416+/-0.009 χ^2/NDF : 1904952.3/66

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 180.634 $\pm$ 1.090 χ^2 /NDF: 993.4/15

Left Out: 207.229 $\pm$ 1.130 χ^2 /NDF:2022.4/16

Right Out: 167.102 $\pm$ 1.021 χ^2 /NDF: 1484.6/18

Left In: 228.533 $\pm$ 1.256 χ^2 /NDF:410.3/14

Left: 216.760 $\pm$ 0.840 χ^2 /NDF: 2591.7/31

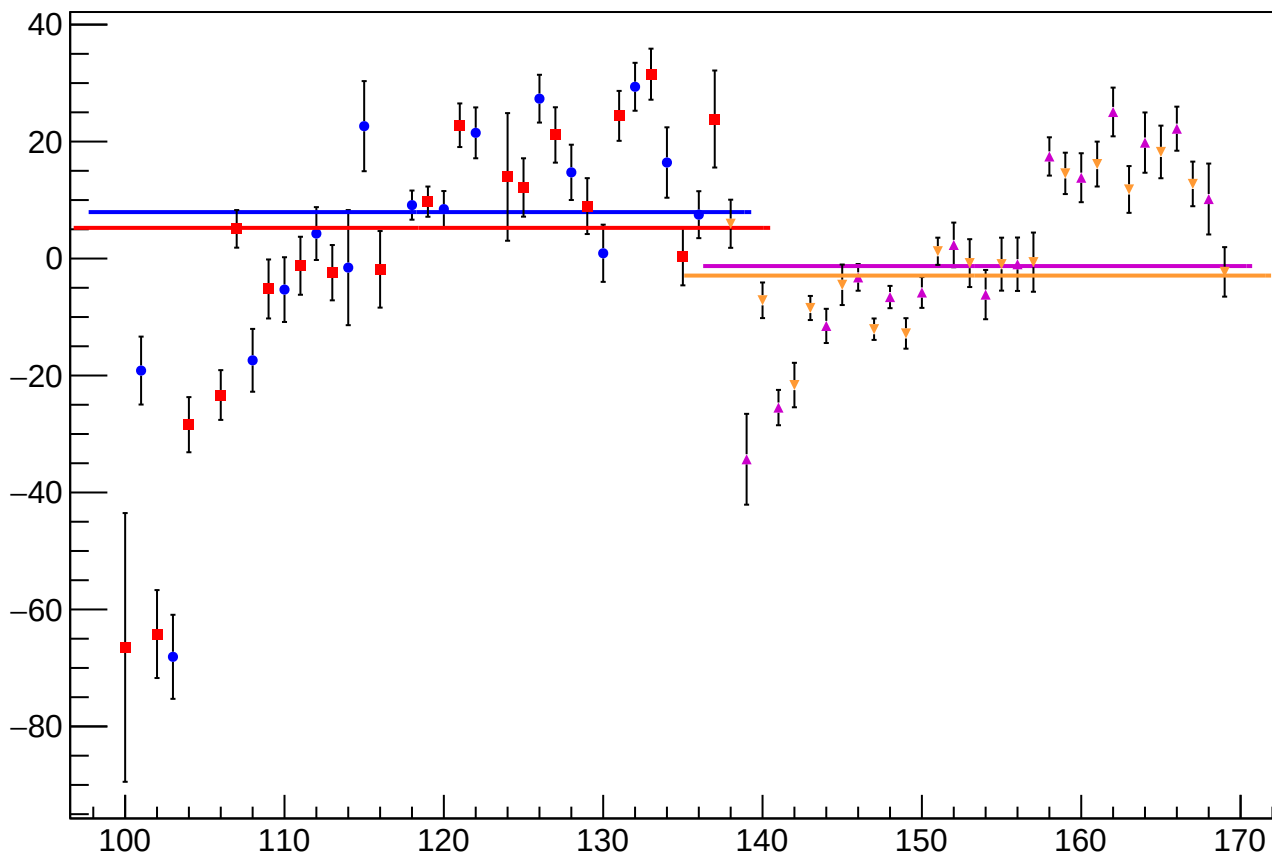
Right: 173.427 $\pm$ 0.745 χ^2 /NDF: 2560.1/34

In: 201.200 $\pm$ 0.823 χ^2 /NDF:2233.4/30

Out: 185.130 $\pm$ 0.758 χ^2 /NDF:4201.2/35

All: 192.499 $\pm$ 0.557 χ^2 /NDF: 6641.0/66

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.942 ± 1.113 χ^2/NDF : 232.9/15

Left Out: -2.912 ± 0.763 χ^2/NDF : 183.2/16

Right Out: 5.244 ± 1.062 χ^2/NDF : 302.9/18

Left In: -1.285 ± 0.854 χ^2/NDF : 253.2/14

Left: -2.190 ± 0.569 χ^2/NDF : 438.3/31

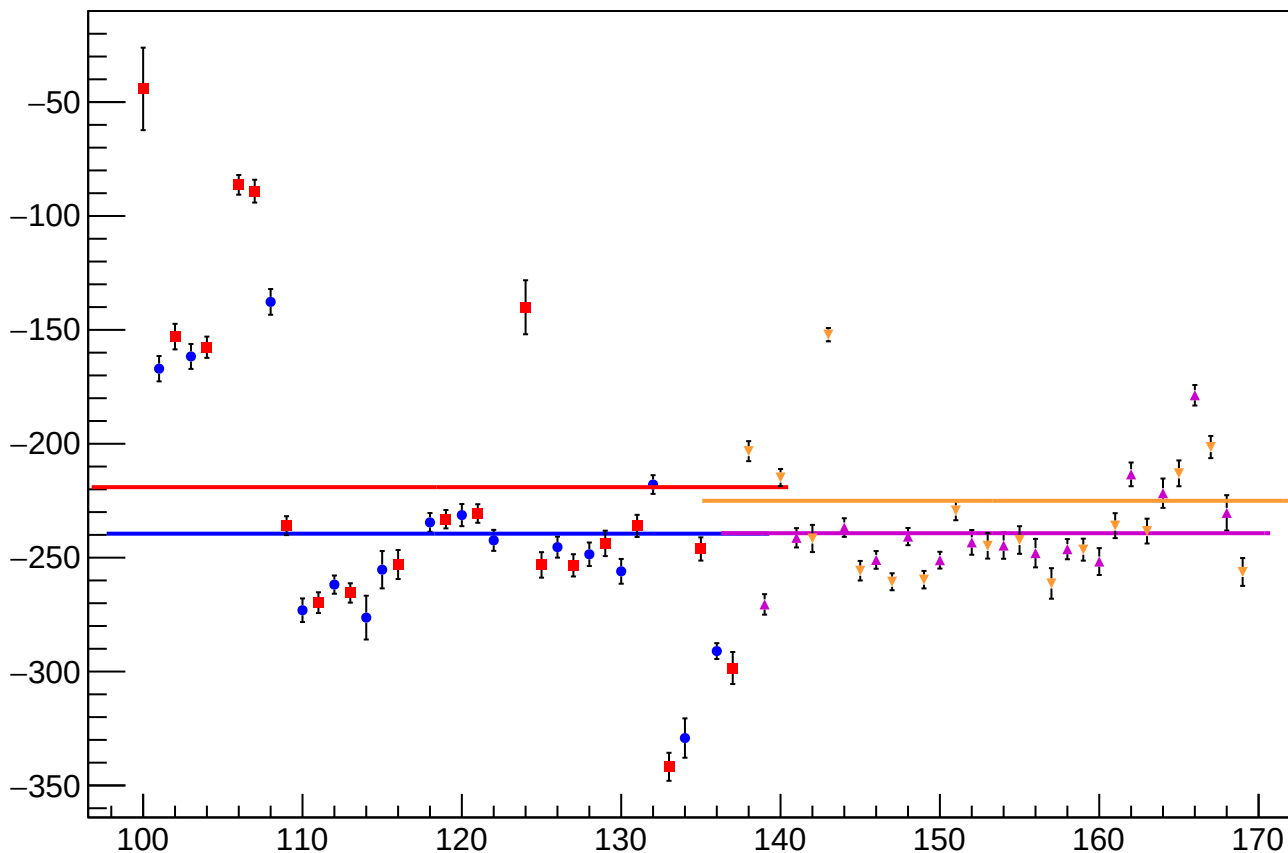
Right: 6.530 ± 0.768 χ^2/NDF : 538.9/34

In: 2.133 ± 0.678 χ^2/NDF : 529.3/30

Out: -0.135 ± 0.620 χ^2/NDF : 525.0/35

All: 0.898 ± 0.457 χ^2/NDF : 1060.4/66

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -239.468 ± 1.245 χ^2/NDF : 1162.2/15

Left Out: -225.038 ± 1.112 χ^2/NDF : 1020.9/16

Right Out: -219.053 ± 1.176 χ^2/NDF : 3049.3/18

Left In: -239.262 ± 1.221 χ^2/NDF : 292.9/14

Left: -231.490 ± 0.822 χ^2/NDF : 1387.9/31

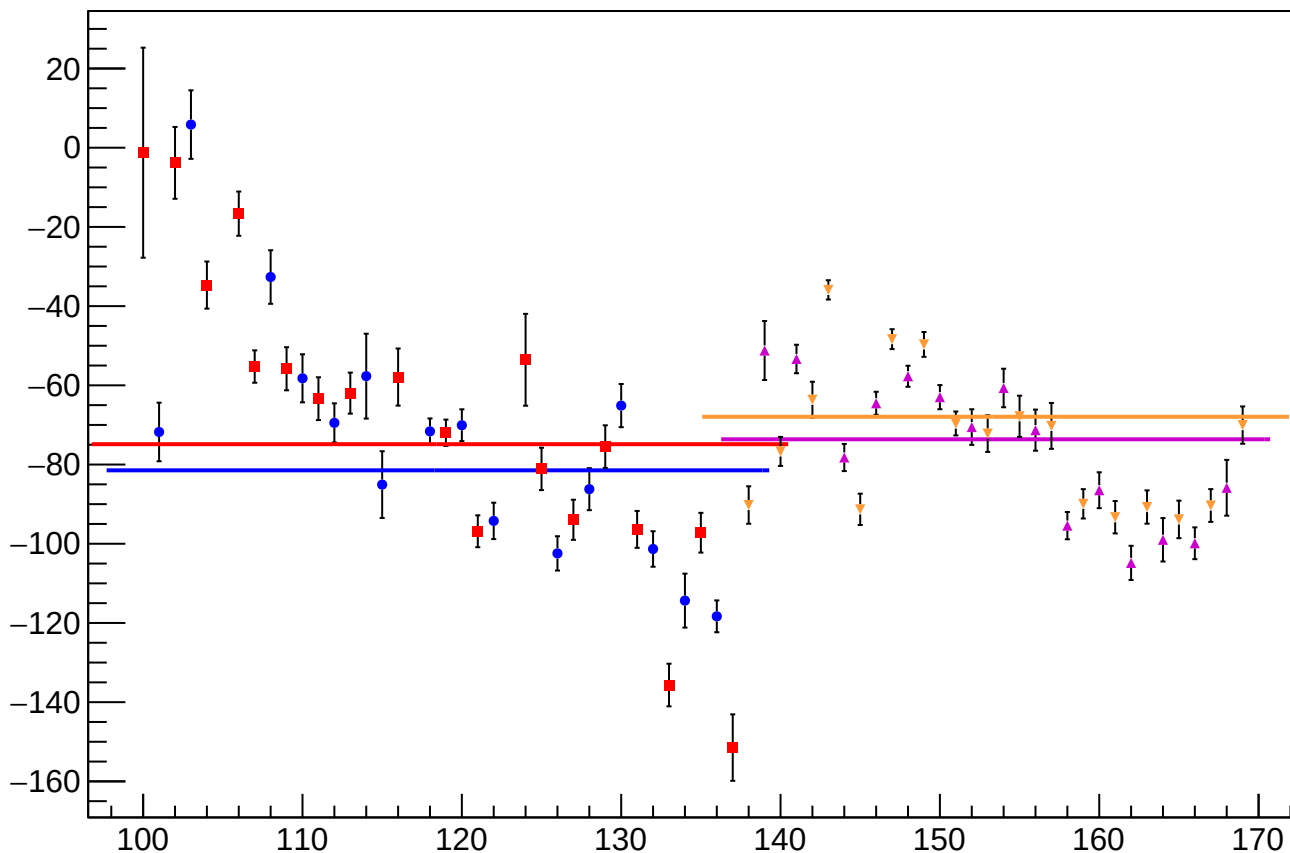
Right: -228.679 ± 0.855 χ^2/NDF : 4353.5/34

In: -239.363 ± 0.872 χ^2/NDF : 1455.1/30

Out: -222.212 ± 0.808 χ^2/NDF : 4083.8/35

All: -230.139 ± 0.593 χ^2/NDF : 5747.1/66

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -81.462 ± 1.287 $\chi^2/\text{NDF}: 366.5/15$

Left Out: -67.936 ± 0.905 $\chi^2/\text{NDF}: 495.2/16$

Right Out: -74.861 ± 1.230 $\chi^2/\text{NDF}: 576.6/18$

Left In: -73.622 ± 1.010 $\chi^2/\text{NDF}: 276.0/14$

Left: -70.468 ± 0.674 $\chi^2/\text{NDF}: 788.8/31$

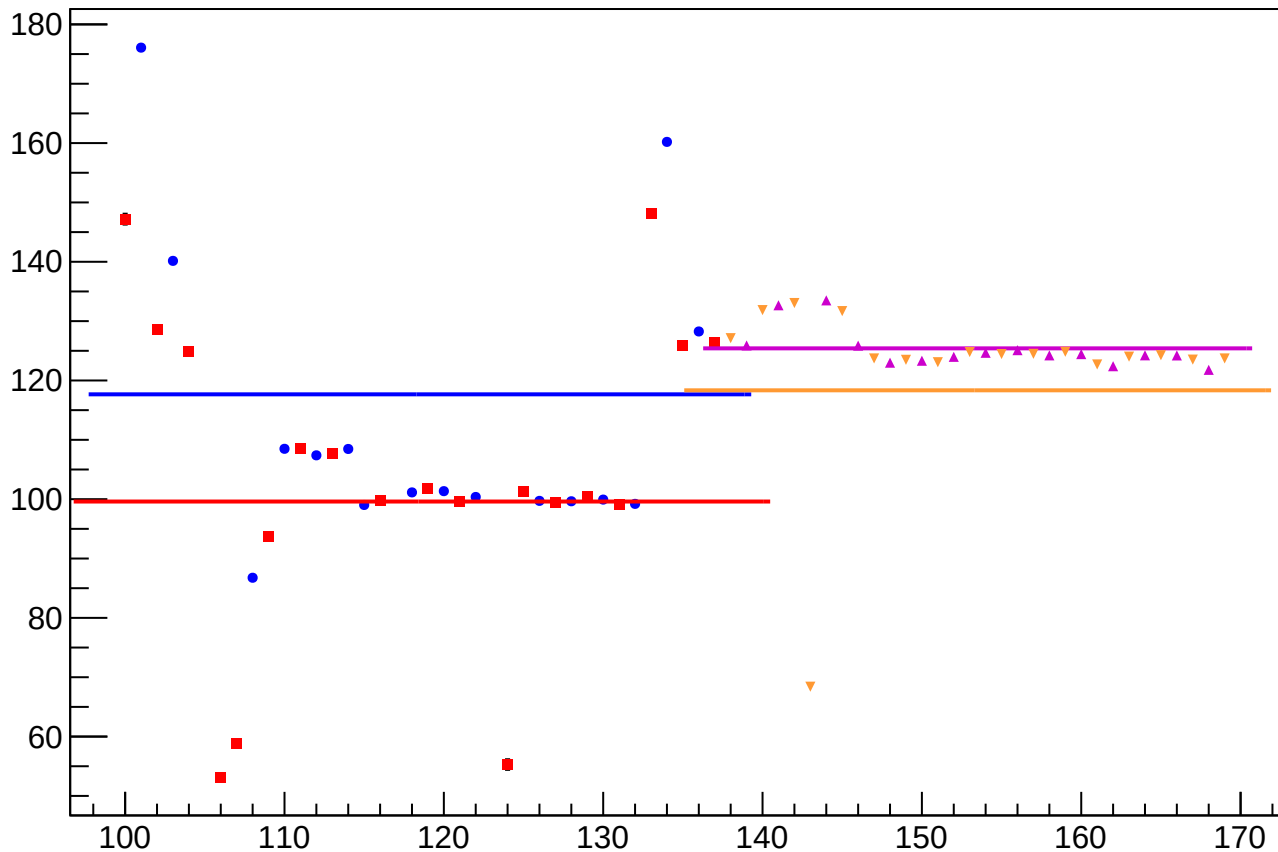
Right: -78.013 ± 0.889 $\chi^2/\text{NDF}: 956.9/34$

In: -76.611 ± 0.795 $\chi^2/\text{NDF}: 665.4/30$

Out: -70.369 ± 0.729 $\chi^2/\text{NDF}: 1092.4/35$

All: -73.222 ± 0.537 $\chi^2/\text{NDF}: 1791.3/66$

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 117.666+/-0.078 χ^2/NDF : 95397.2/15

Left Out: 118.343+/-0.043 χ^2/NDF : 198047.7/16

Right Out: 99.604+/-0.070 χ^2/NDF : 166236.0/18

Left In: 125.412+/-0.047 χ^2/NDF : 4811.0/14

Left: 121.601+/-0.032 χ^2/NDF : 215098.8/31

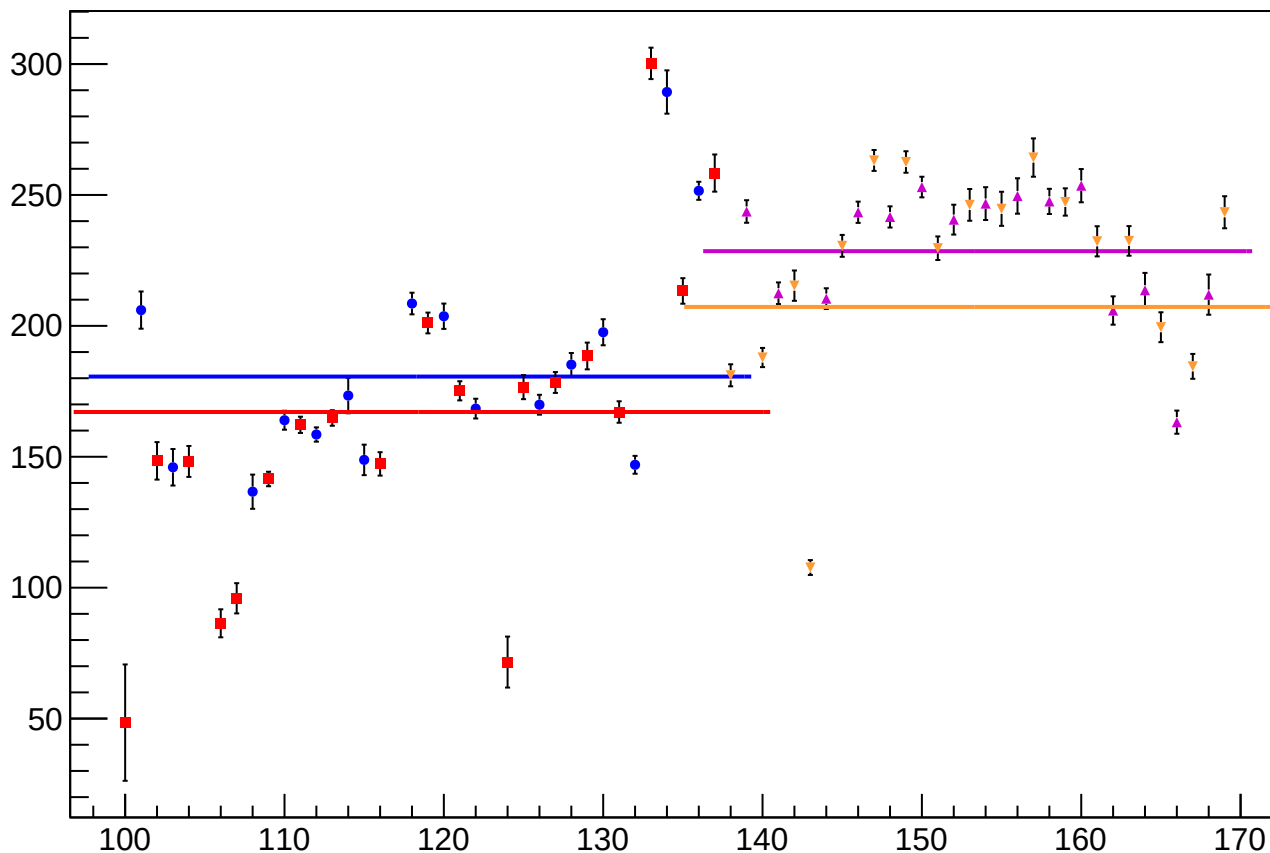
Right: 107.671+/-0.052 χ^2/NDF : 291112.6/34

In: 123.364+/-0.040 χ^2/NDF : 107416.1/30

Out: 113.175+/-0.037 χ^2/NDF : 415736.5/35

All: 117.832+/-0.027 χ^2/NDF : 557964.2/66

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 180.634 ± 1.090 χ^2/NDF : 993.4/15

Left Out: 207.229 ± 1.130 χ^2/NDF : 2022.4/16

Right Out: 167.102 ± 1.021 χ^2/NDF : 1484.6/18

Left In: 228.533 ± 1.256 χ^2/NDF : 410.3/14

Left: 216.760 ± 0.840 χ^2/NDF : 2591.7/31

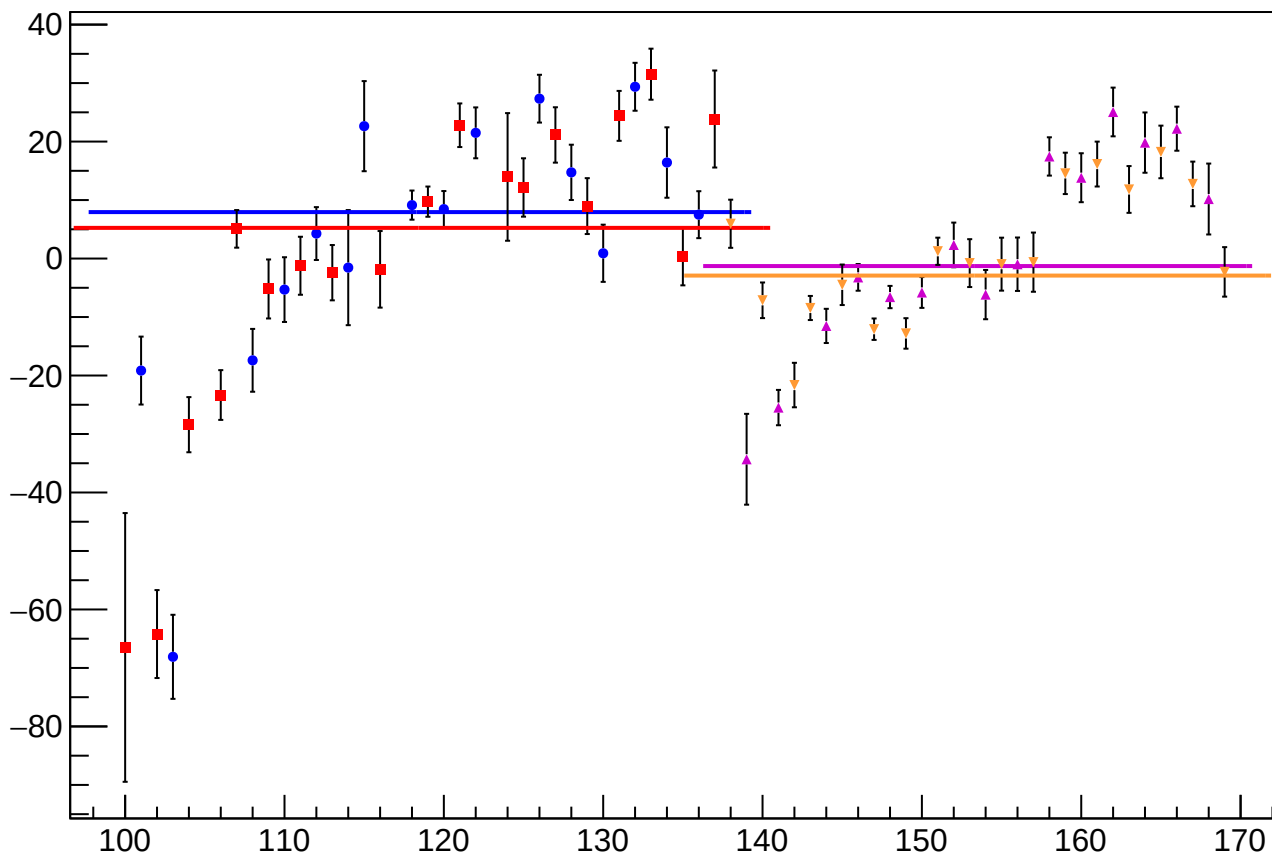
Right: 173.427 ± 0.745 χ^2/NDF : 2560.1/34

In: 201.200 ± 0.823 χ^2/NDF : 2233.4/30

Out: 185.130 ± 0.758 χ^2/NDF : 4201.2/35

All: 192.499 ± 0.557 χ^2/NDF : 6641.0/66

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 7.942 ± 1.113 χ^2/NDF : 232.9/15

Left Out: -2.912 ± 0.763 χ^2/NDF : 183.2/16

Right Out: 5.244 ± 1.062 χ^2/NDF : 302.9/18

Left In: -1.285 ± 0.854 χ^2/NDF : 253.2/14

Left: -2.190 ± 0.569 χ^2/NDF : 438.3/31

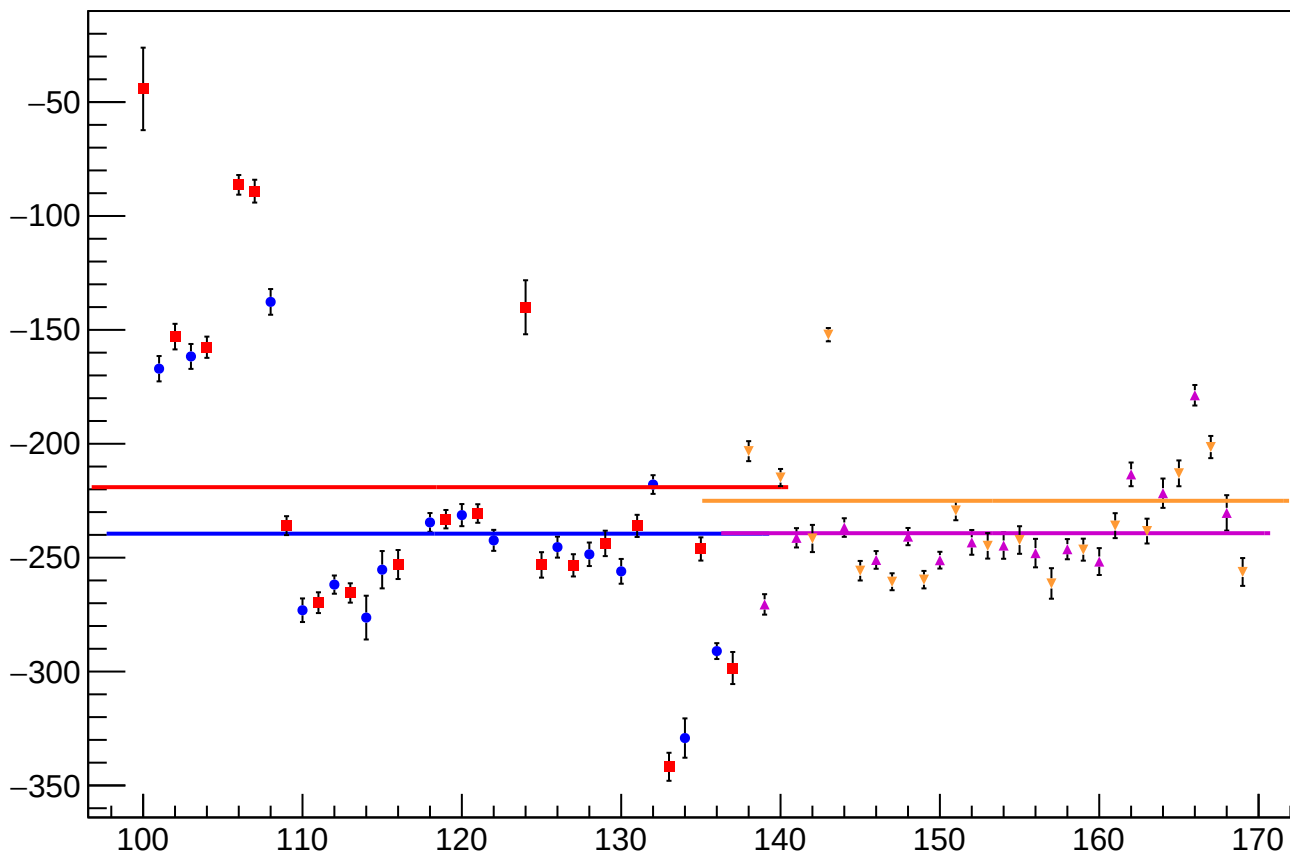
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In: 2.133 ± 0.678 χ^2/NDF : 529.3/30

Out: -0.135 ± 0.620 χ^2/NDF : 525.0/35

All: 0.898 ± 0.457 χ^2/NDF : 1060.4/66

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -239.468 ± 1.245 χ^2/NDF : 1162.2/15

Left Out: -225.038 ± 1.112 χ^2/NDF : 1020.9/16

Right Out: -219.053 ± 1.176 χ^2/NDF : 3049.3/18

Left In: -239.262 ± 1.221 χ^2/NDF : 292.9/14

Left: -231.490 ± 0.822 χ^2/NDF : 1387.9/31

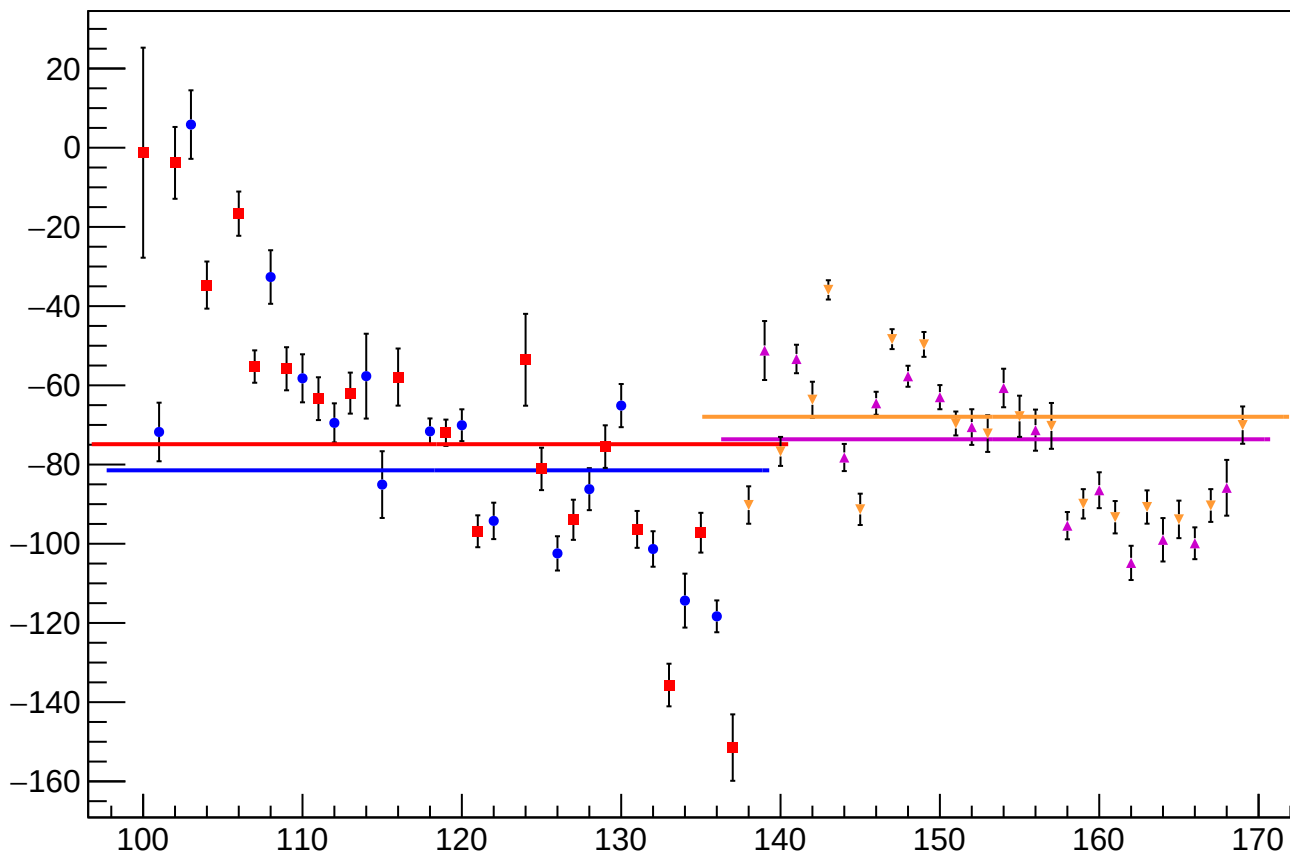
Right: -228.679 ± 0.855 χ^2/NDF : 4353.5/34

In: -239.363 ± 0.872 χ^2/NDF : 1455.1/30

Out: -222.212 ± 0.808 χ^2/NDF : 4083.8/35

All: -230.139 ± 0.593 χ^2/NDF : 5747.1/66

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -81.462 ± 1.287 χ^2/NDF : 366.5/15

Left Out: -67.936 ± 0.905 χ^2/NDF : 495.2/16

Right Out: -74.861 ± 1.230 χ^2/NDF : 576.6/18

Left In: -73.622 ± 1.010 χ^2/NDF : 276.0/14

Left: -70.468 ± 0.674 χ^2/NDF : 788.8/31

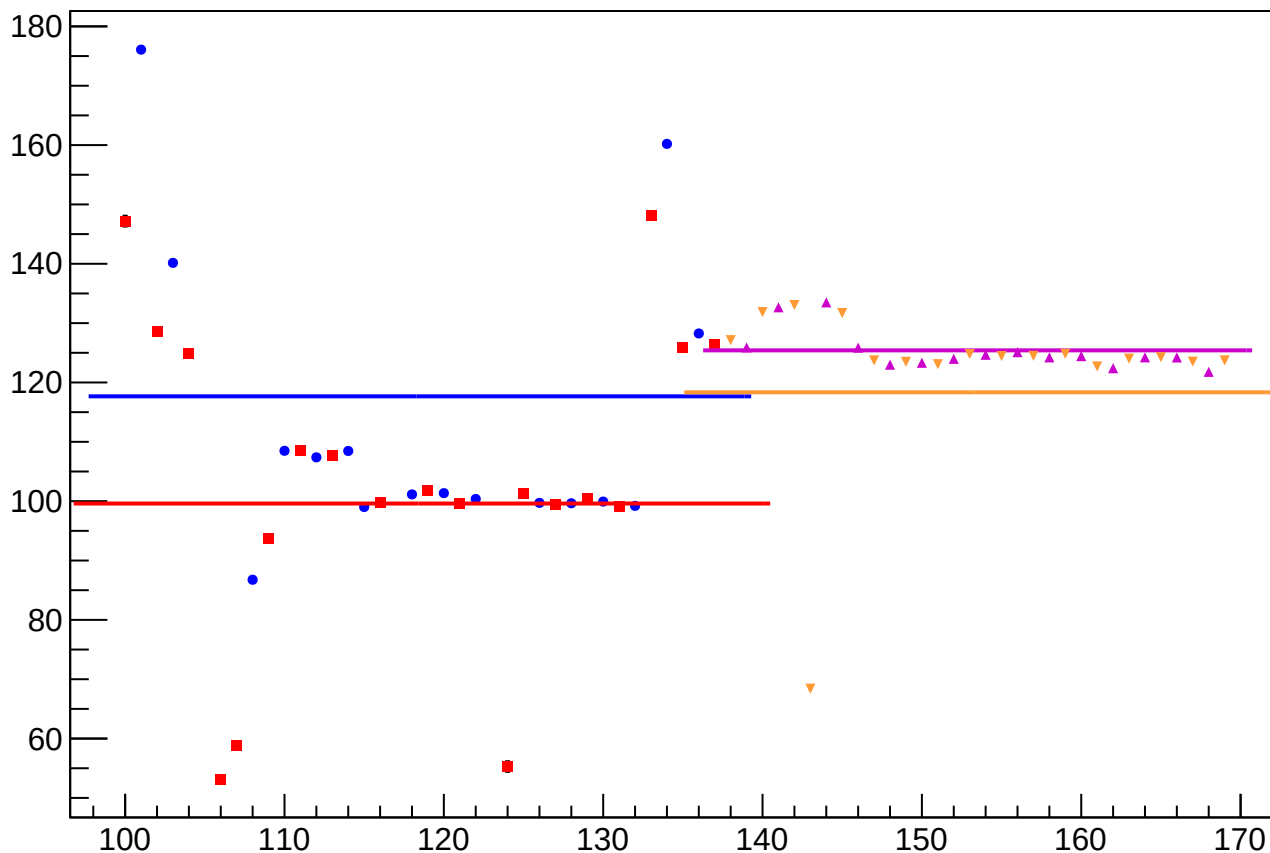
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In: -76.611 ± 0.795 χ^2/NDF : 665.4/30

Out: -70.369 ± 0.729 χ^2/NDF : 1092.4/35

All: -73.222 ± 0.537 χ^2/NDF : 1791.3/66

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 117.666+/-0.078 χ^2/NDF : 95397.2/15

Left Out: 118.343+/-0.043 χ^2/NDF :198047.7/16

Right Out: 99.604+/-0.070 χ^2/NDF : 166236.0/18

Left In: 125.412+/-0.047 χ^2/NDF :4811.0/14

Left: 121.601+/-0.032 χ^2/NDF : 215098.8/31

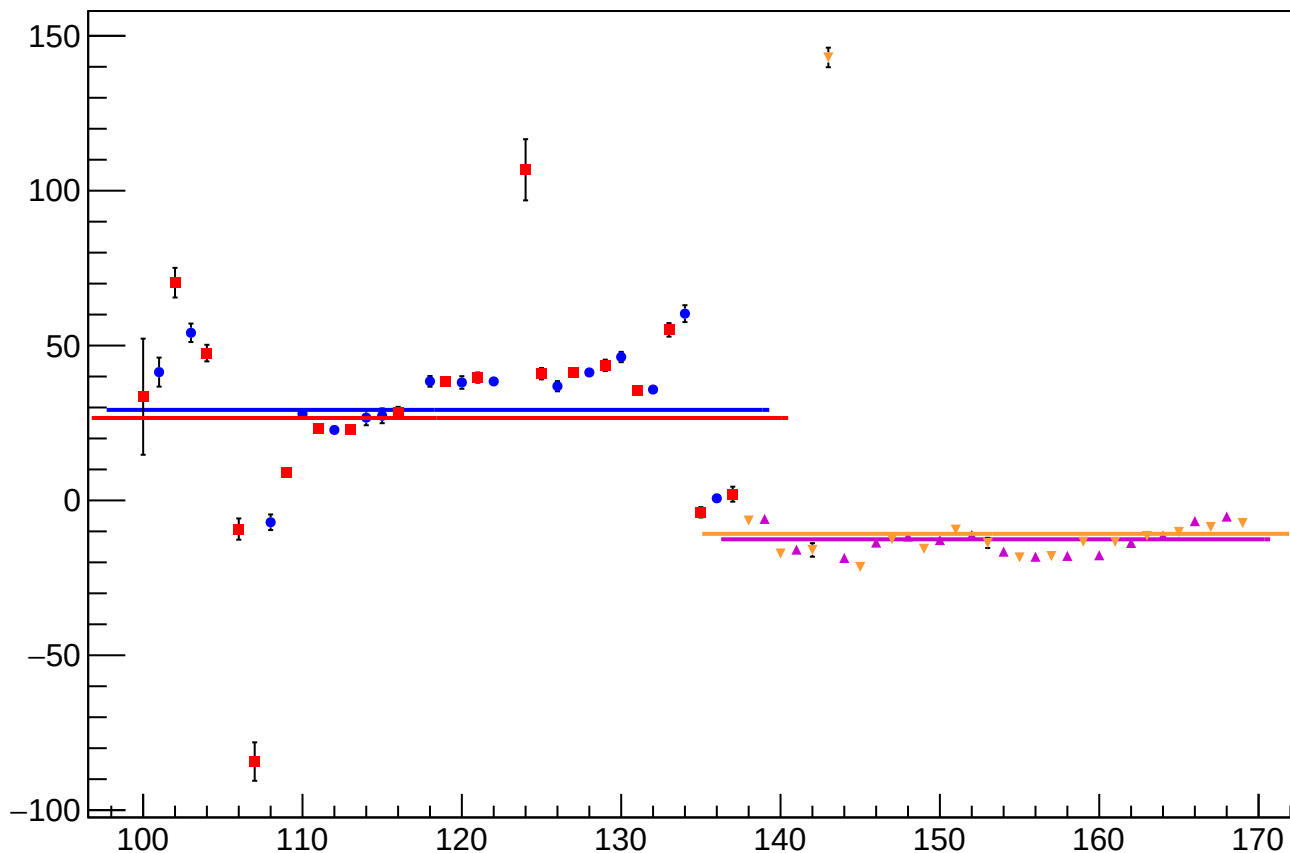
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In: 123.364+/-0.040 χ^2/NDF :107416.1/30

Out: 113.175+/-0.037 χ^2/NDF :415736.5/35

All: 117.832+/-0.027 χ^2/NDF : 557964.2/66

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 29.229+/-0.424 χ^2/NDF : 1342.9/15

Left Out: -10.790+/-0.364 χ^2/NDF : 2540.4/16

Right Out: 26.609+/-0.414 χ^2/NDF : 1920.6/18

Left In: -12.559+/-0.370 χ^2/NDF : 145.1/14

Left: -11.660+/-0.259 χ^2/NDF : 2697.1/31

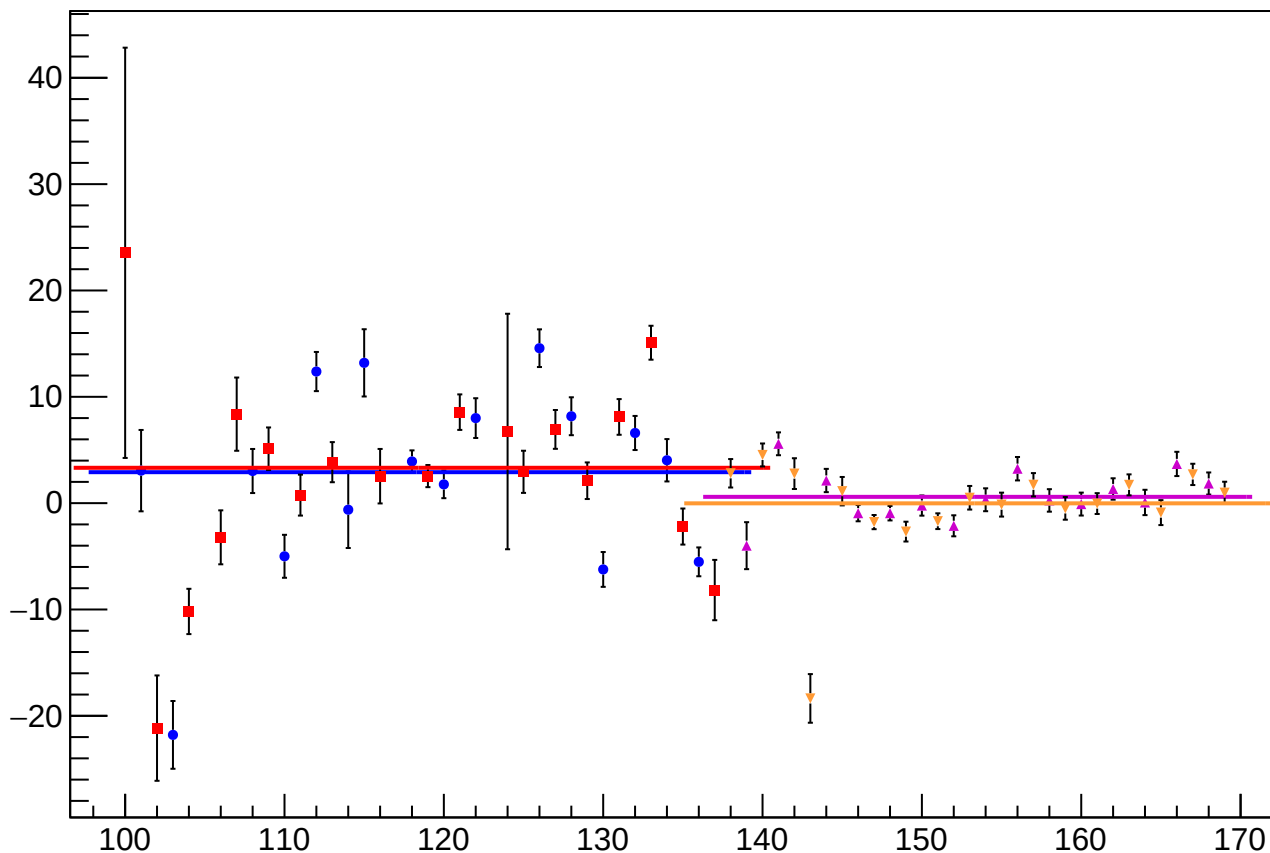
Right: 27.887+/-0.296 χ^2/NDF : 3283.1/34

In: 5.483+/-0.279 χ^2/NDF : 7000.4/30

Out: 5.507+/-0.273 χ^2/NDF : 9063.7/35

All: 5.495+/-0.195 χ^2/NDF : 16064.1/66

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.912 ± 0.442 $\chi^2/\text{NDF}: 250.0/15$

Left Out: -0.018 ± 0.251 $\chi^2/\text{NDF}: 126.3/16$

Right Out: 3.326 ± 0.454 $\chi^2/\text{NDF}: 181.8/18$

Left In: 0.593 ± 0.261 $\chi^2/\text{NDF}: 61.2/14$

Left: 0.276 ± 0.181 $\chi^2/\text{NDF}: 190.3/31$

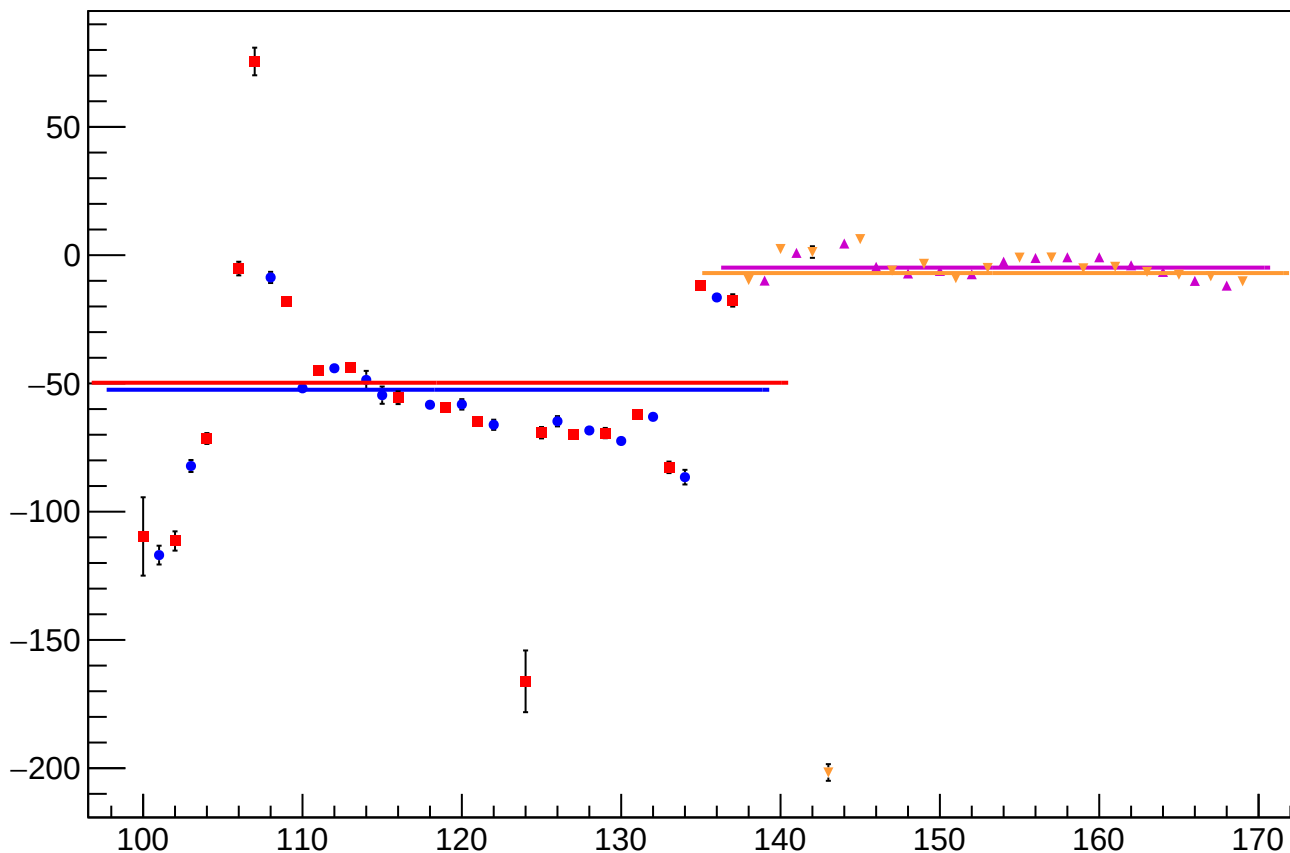
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In: 1.190 ± 0.225 $\chi^2/\text{NDF}: 331.5/30$

Out: 0.764 ± 0.219 $\chi^2/\text{NDF}: 349.7/35$

All: 0.972 ± 0.157 $\chi^2/\text{NDF}: 683.1/66$

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -52.467 ± 0.488 $\chi^2/\text{NDF}: 2330.2/15$

Left Out: -6.981 ± 0.355 $\chi^2/\text{NDF}: 3794.7/16$

Right Out: -49.734 ± 0.494 $\chi^2/\text{NDF}: 3009.7/18$

Left In: -4.854 ± 0.359 $\chi^2/\text{NDF}: 143.7/14$

Left: -5.932 ± 0.252 $\chi^2/\text{NDF}: 3956.1/31$

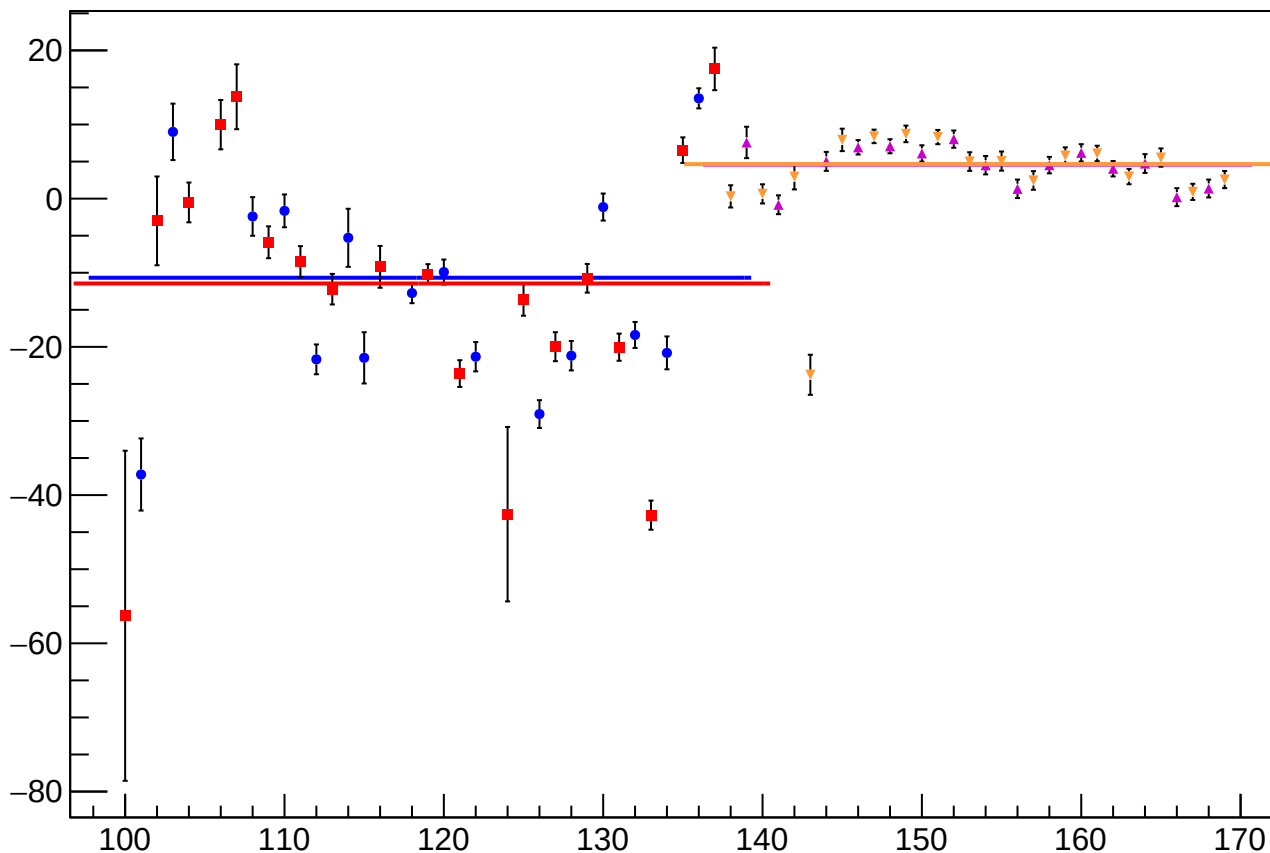
Right: -51.118 ± 0.347 $\chi^2/\text{NDF}: 5355.4/34$

In: -21.604 ± 0.289 $\chi^2/\text{NDF}: 8649.8/30$

Out: -21.516 ± 0.288 $\chi^2/\text{NDF}: 11747.1/35$

All: -21.560 ± 0.204 $\chi^2/\text{NDF}: 20397.0/66$

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -10.675 ± 0.505 χ^2/NDF : 666.4/15

Left Out: 4.651 ± 0.291 χ^2/NDF : 203.0/16

Right Out: -11.450 ± 0.516 χ^2/NDF : 665.7/18

Left In: 4.586 ± 0.302 χ^2/NDF : 72.6/14

Left: 4.620 ± 0.210 χ^2/NDF : 275.7/31

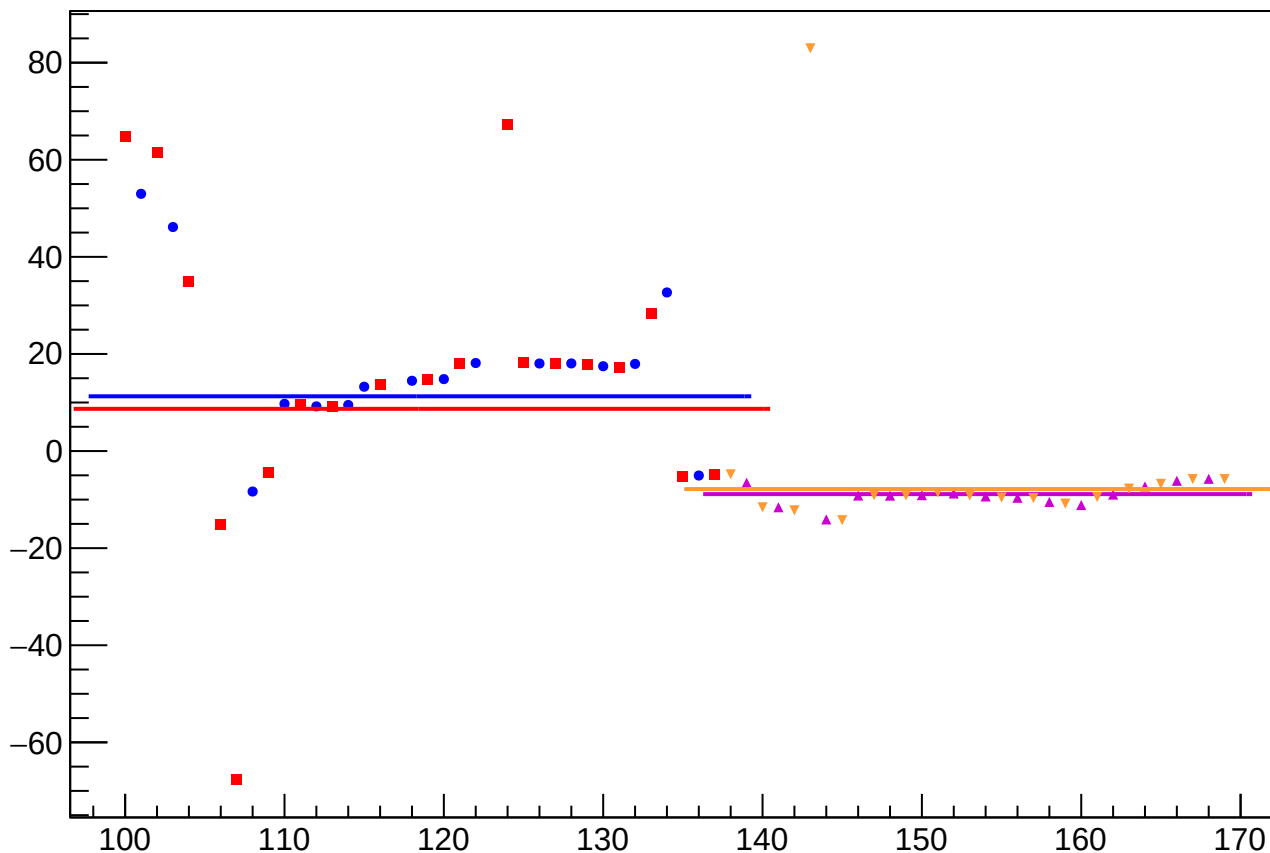
Right: -11.054 ± 0.361 χ^2/NDF : 1333.3/34

In: 0.562 ± 0.260 χ^2/NDF : 1410.2/30

Out: 0.766 ± 0.253 χ^2/NDF : 1607.3/35

All: 0.666 ± 0.181 χ^2/NDF : 3017.9/66

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 11.277+/-0.030 χ^2/NDF : 349346.9/15

Left Out: -7.826+/-0.013 χ^2/NDF : 485138.5/16

Right Out: 8.698+/-0.031 χ^2/NDF : 436156.0/18

Left In: -8.870+/-0.013 χ^2/NDF : 21878.4/14

Left: -8.342+/-0.009 χ^2/NDF : 510082.6/31

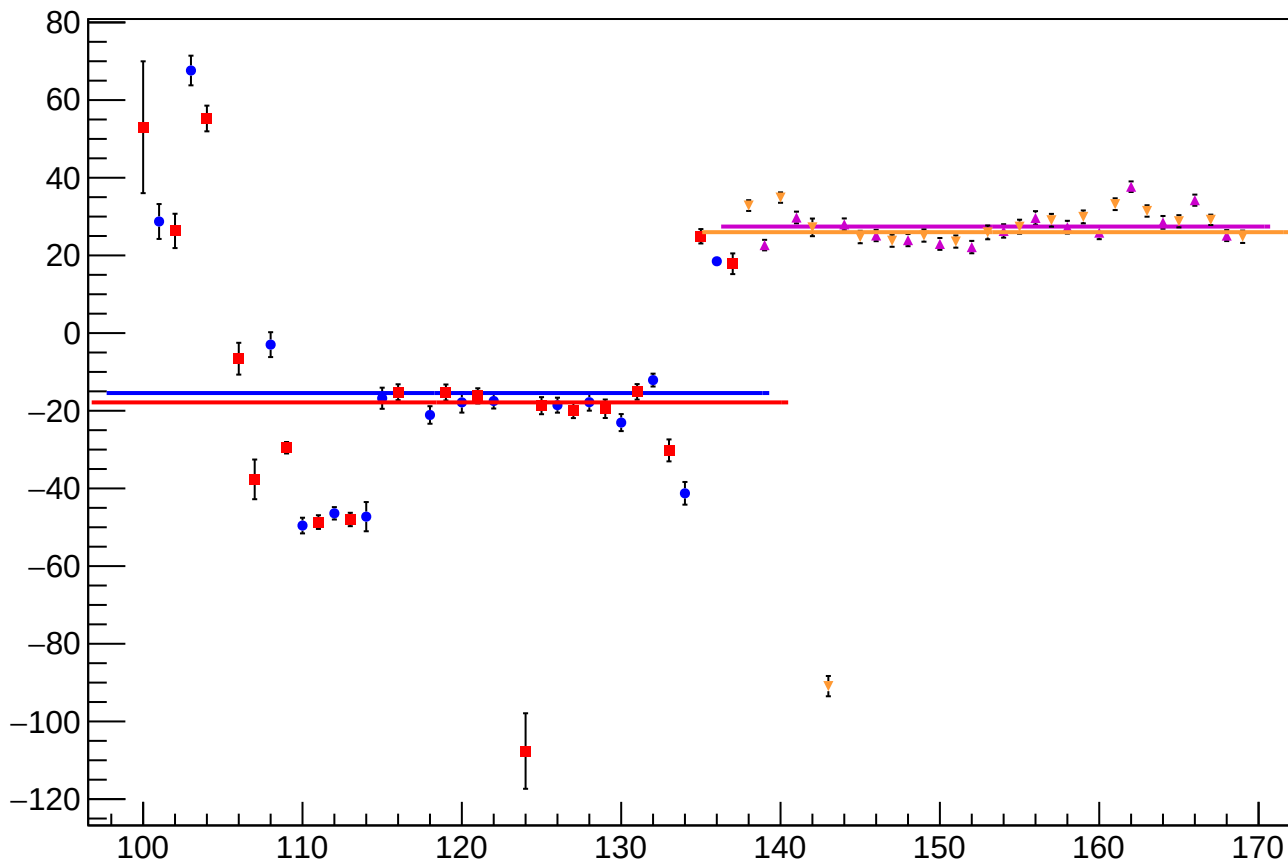
Right: 10.050+/-0.022 χ^2/NDF : 789035.8/34

In: -5.501+/-0.012 χ^2/NDF : 748748.2/30

Out: -5.332+/-0.012 χ^2/NDF : 1156108.9/35

All: -5.416+/-0.009 χ^2/NDF : 1904952.3/66

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -15.438 ± 0.539 χ^2/NDF : 2124.2/15

Left Out: 25.986 ± 0.388 χ^2/NDF : 2131.7/16

Right Out: -17.848 ± 0.530 χ^2/NDF : 2125.2/18

Left In: 27.431 ± 0.396 χ^2/NDF : 127.0/14

Left: 26.694 ± 0.277 χ^2/NDF : 2265.5/31

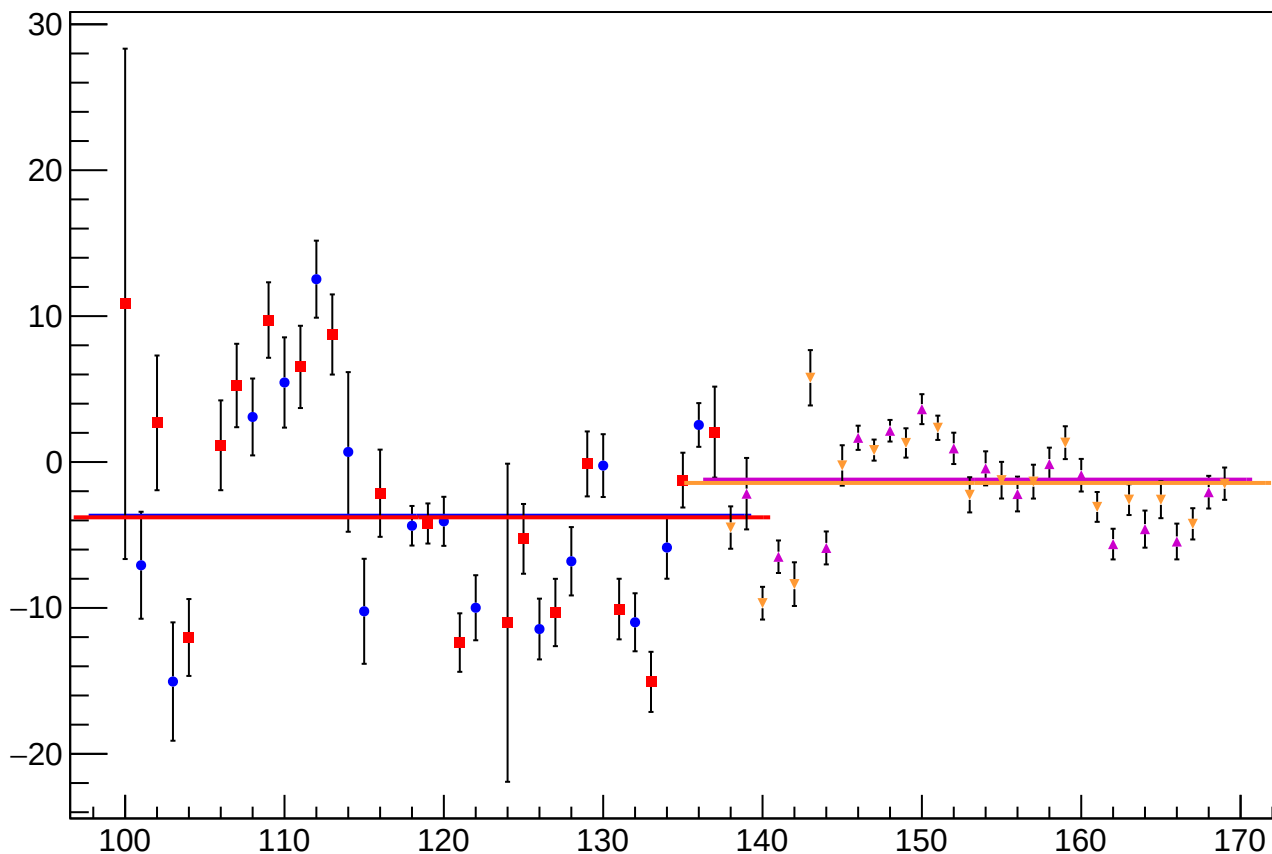
Right: -16.664 ± 0.378 χ^2/NDF : 4259.6/34

In: 12.403 ± 0.319 χ^2/NDF : 6358.7/30

Out: 10.656 ± 0.313 χ^2/NDF : 8711.0/35

All: 11.513 ± 0.224 χ^2/NDF : 15085.0/66

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.679 ± 0.552 χ^2/NDF : 124.0/15

Left Out: -1.432 ± 0.268 χ^2/NDF : 150.9/16

Right Out: -3.790 ± 0.564 χ^2/NDF : 161.2/18

Left In: -1.207 ± 0.279 χ^2/NDF : 137.8/14

Left: -1.324 ± 0.193 χ^2/NDF : 289.0/31

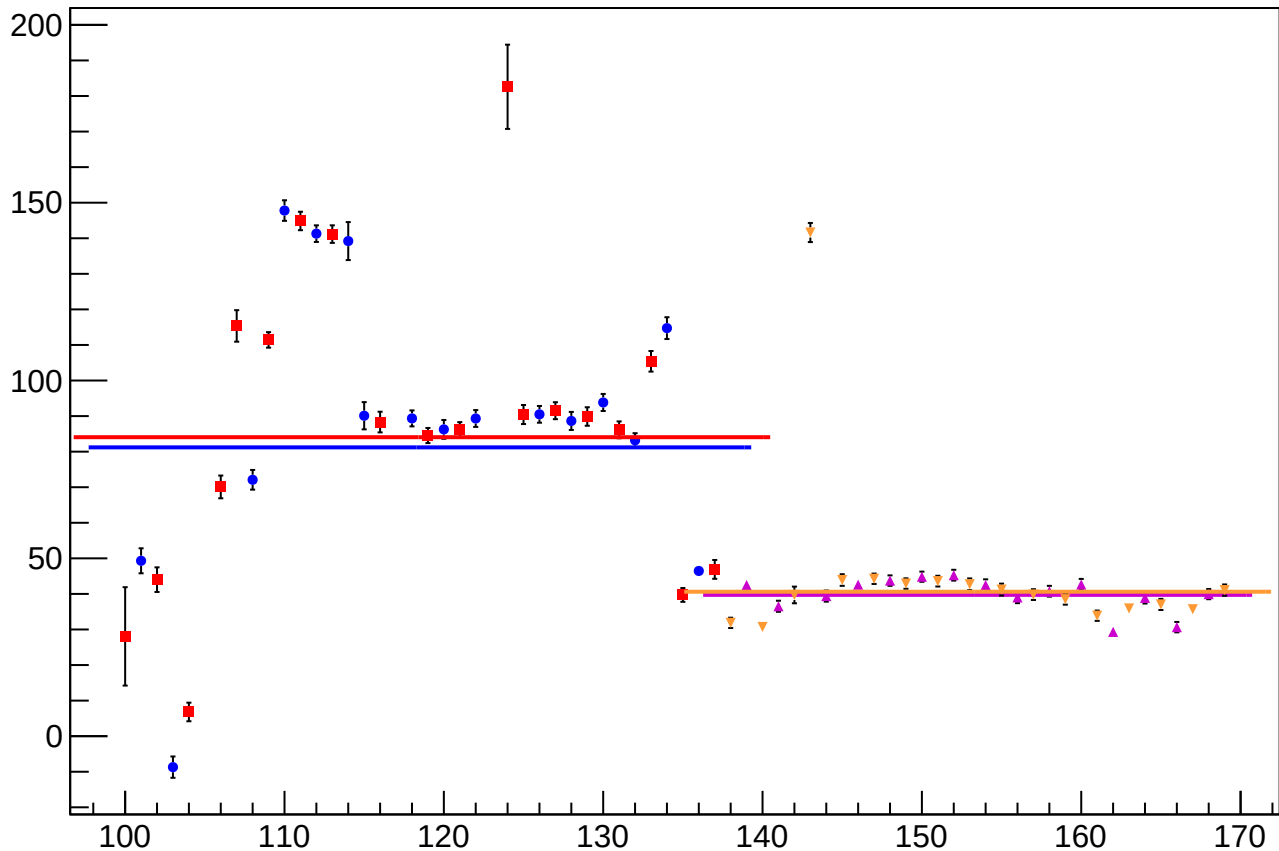
Right: -3.734 ± 0.394 χ^2/NDF : 285.2/34

In: -1.709 ± 0.249 χ^2/NDF : 277.8/30

Out: -1.868 ± 0.242 χ^2/NDF : 326.3/35

All: -1.791 ± 0.174 χ^2/NDF : 604.3/66

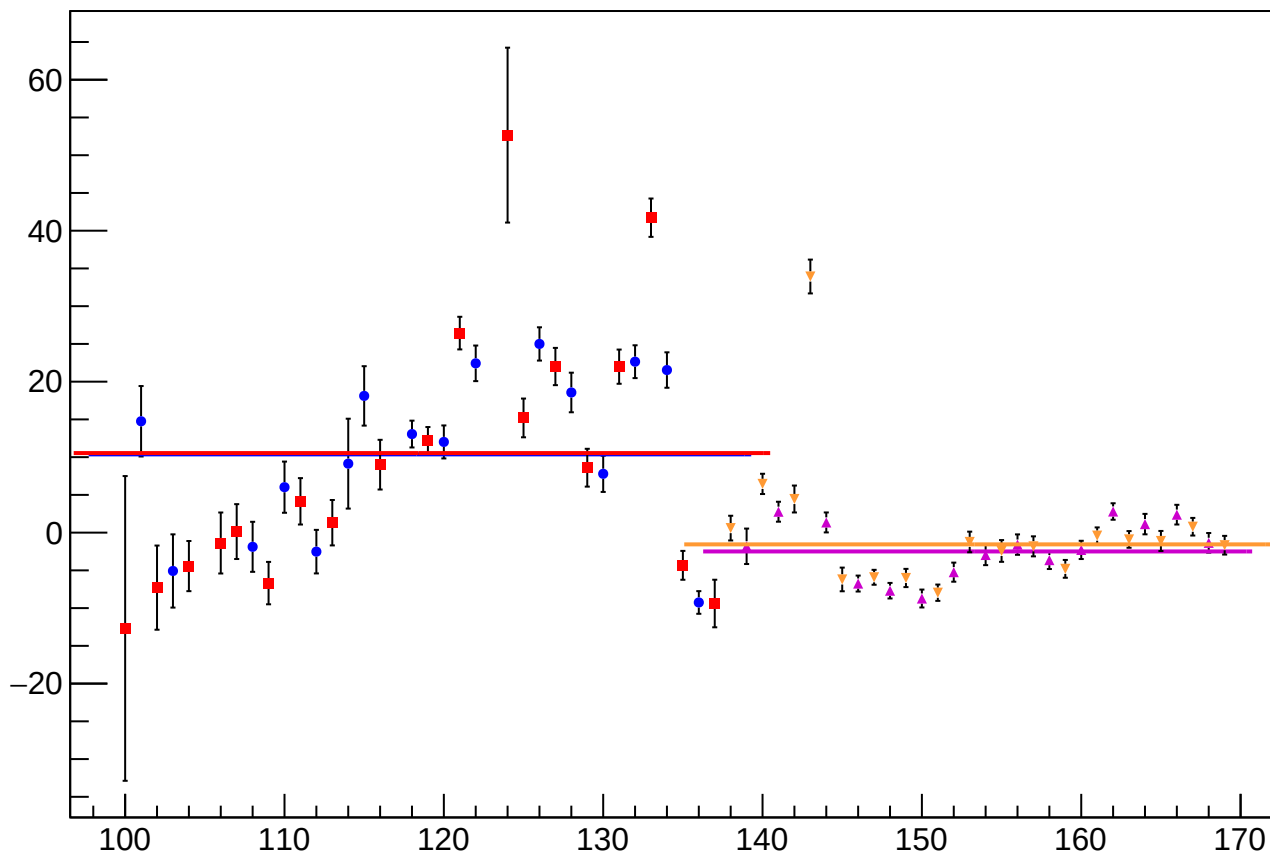
reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 81.203 $\pm$ 0.607 χ^2 /NDF: 3230.5/15
 Left Out: 40.620 $\pm$ 0.379 χ^2 /NDF:1573.1/16
 Right Out: 84.065 $\pm$ 0.616 χ^2 /NDF: 3206.5/18
 Left In: 39.736 $\pm$ 0.385 χ^2 /NDF:154.7/14

Left: 40.185 $\pm$ 0.270 χ^2 /NDF: 1730.5/31
 Right: 82.612 $\pm$ 0.432 χ^2 /NDF: 6447.9/34
 In: 51.623 $\pm$ 0.325 χ^2 /NDF:6713.6/30
 Out: 52.533 $\pm$ 0.323 χ^2 /NDF:8386.6/35
 All: 52.081 $\pm$ 0.229 χ^2 /NDF: 15104.2/66

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 10.367 ± 0.627 $\chi^2/\text{NDF}: 359.8/15$

Left Out: -1.556 ± 0.311 $\chi^2/\text{NDF}: 390.0/16$

Right Out: 10.539 ± 0.640 $\chi^2/\text{NDF}: 470.7/18$

Left In: -2.494 ± 0.323 $\chi^2/\text{NDF}: 145.4/14$

Left: -2.007 ± 0.224 $\chi^2/\text{NDF}: 539.8/31$

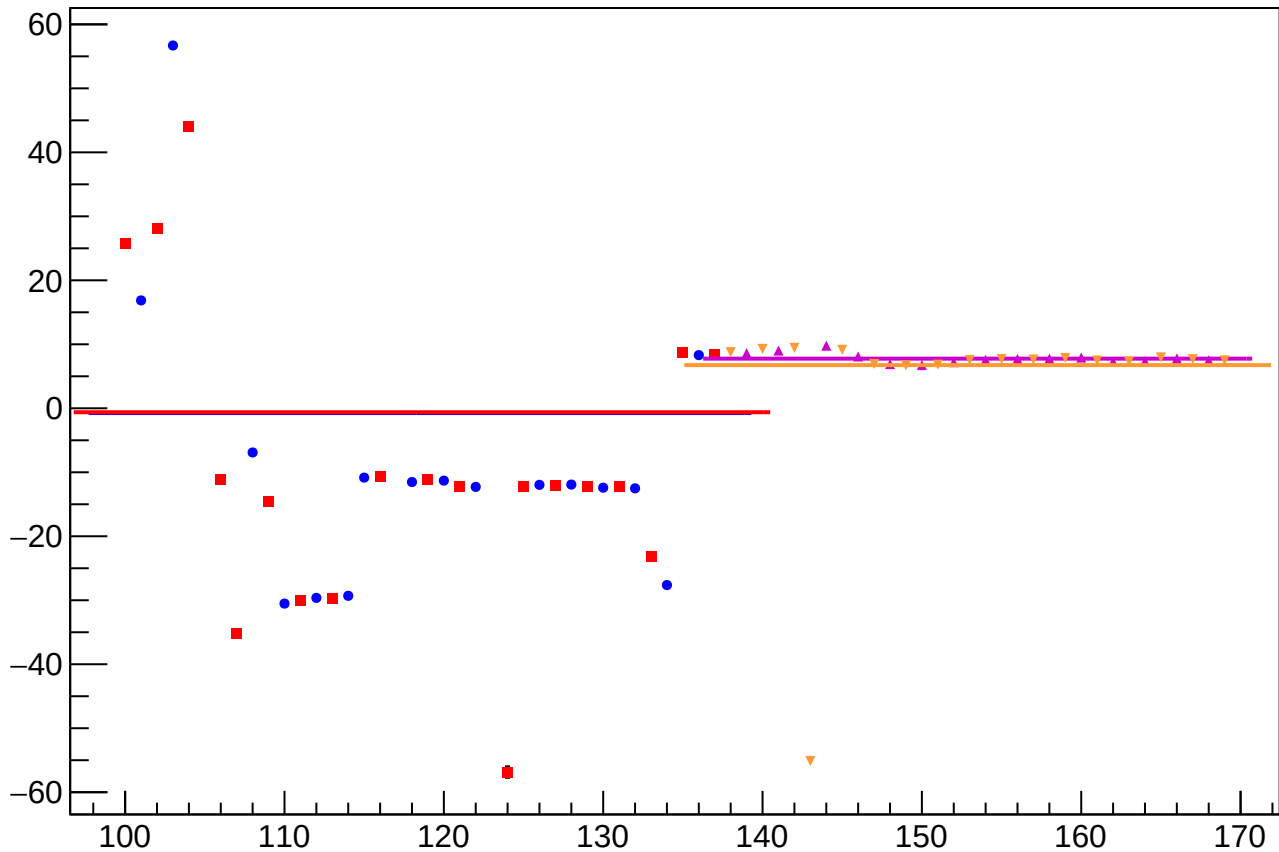
Right: 10.451 ± 0.448 $\chi^2/\text{NDF}: 830.5/34$

In: 0.211 ± 0.287 $\chi^2/\text{NDF}: 837.9/30$

Out: 0.754 ± 0.280 $\chi^2/\text{NDF}: 1149.5/35$

All: 0.490 ± 0.200 $\chi^2/\text{NDF}: 1989.3/66$

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.745 ± 0.036 χ^2/NDF : 367993.9/15

Left Out: 6.749 ± 0.014 χ^2/NDF : 314259.0/16

Right Out: -0.618 ± 0.037 χ^2/NDF : 316492.6/18

Left In: 7.757 ± 0.014 χ^2/NDF : 2321.5/14

Left: 7.246 ± 0.010 χ^2/NDF : 319073.3/31

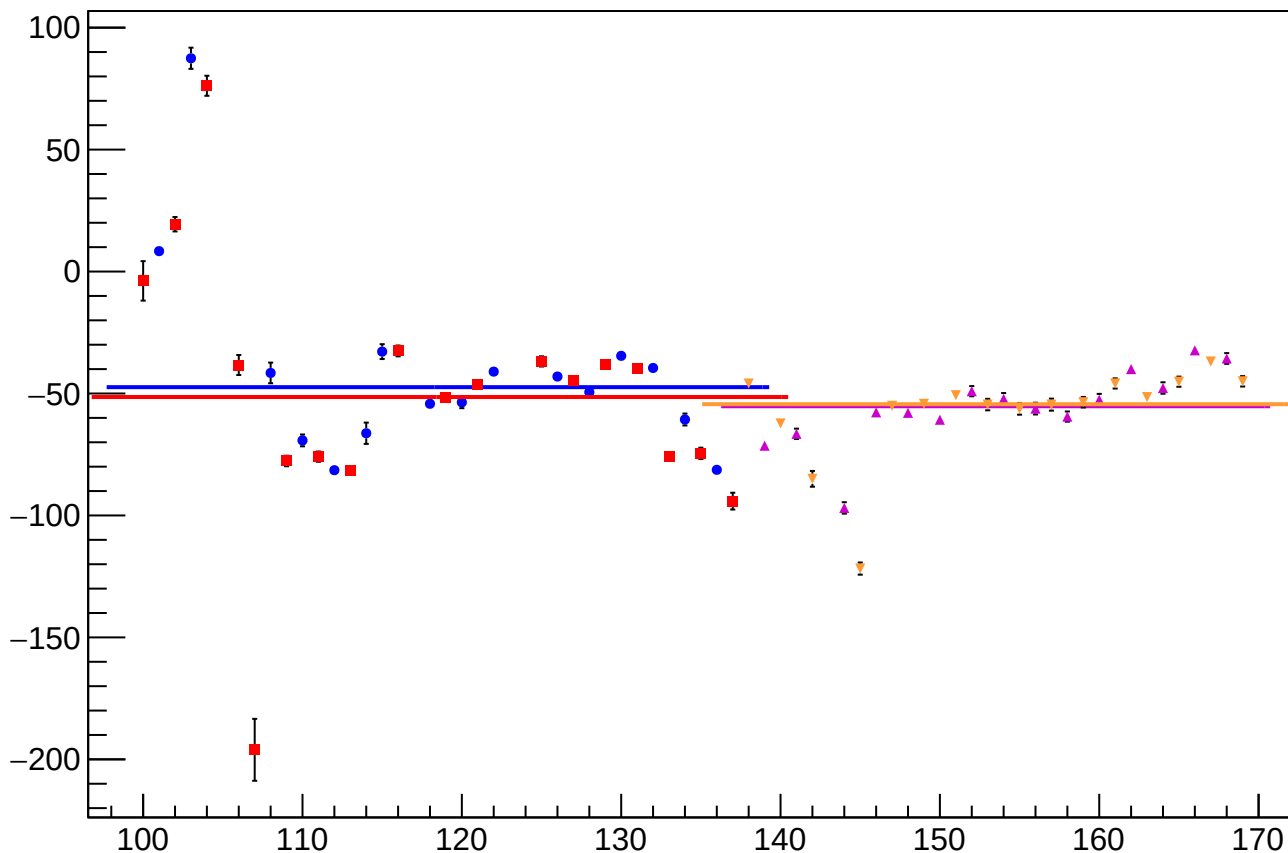
Right: -0.684 ± 0.026 χ^2/NDF : 684492.5/34

In: 6.581 ± 0.013 χ^2/NDF : 418700.0/30

Out: 5.820 ± 0.013 χ^2/NDF : 664788.1/35

All: 6.198 ± 0.009 χ^2/NDF : 1085123.8/66

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -47.398 ± 0.535 $\chi^2/\text{NDF}: 2769.0/15$

Left Out: -54.387 ± 0.521 $\chi^2/\text{NDF}: 1024.8/15$

Right Out: -51.442 ± 0.545 $\chi^2/\text{NDF}: 2872.7/17$

Left In: -55.231 ± 0.530 $\chi^2/\text{NDF}: 774.5/14$

Left: -54.802 ± 0.371 $\chi^2/\text{NDF}: 1800.6/30$

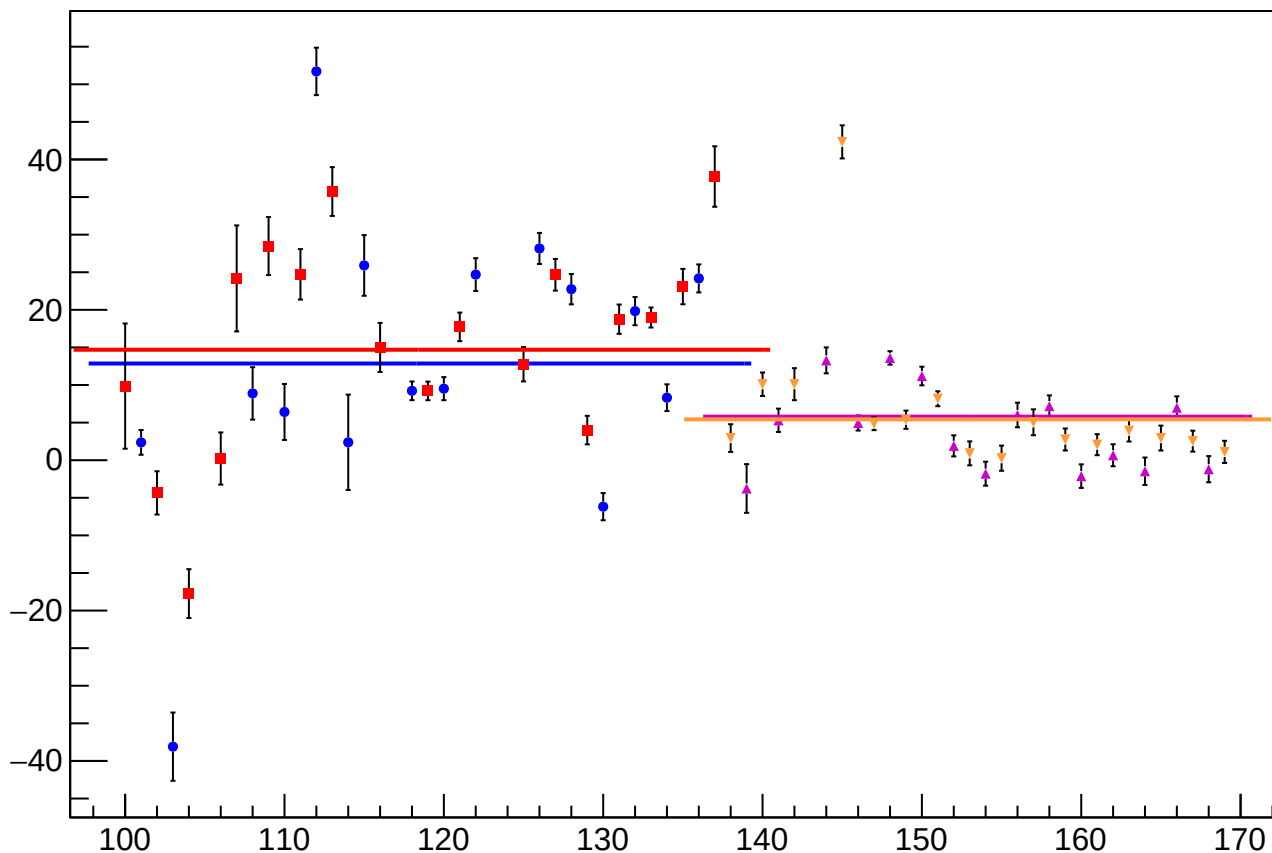
Right: -49.383 ± 0.382 $\chi^2/\text{NDF}: 5669.8/33$

In: -51.353 ± 0.377 $\chi^2/\text{NDF}: 3651.7/30$

Out: -52.982 ± 0.377 $\chi^2/\text{NDF}: 3912.8/33$

All: -52.167 ± 0.266 $\chi^2/\text{NDF}: 7573.9/64$

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 12.860 $\pm$ 0.519 χ^2 /NDF: 625.5/15

Left Out: 5.432 $\pm$ 0.352 χ^2 /NDF: 348.2/15

Right Out: 14.691 $\pm$ 0.544 χ^2 /NDF: 364.1/17

Left In: 5.795 $\pm$ 0.367 χ^2 /NDF: 224.9/14

Left: 5.606 $\pm$ 0.254 χ^2 /NDF: 573.7/30

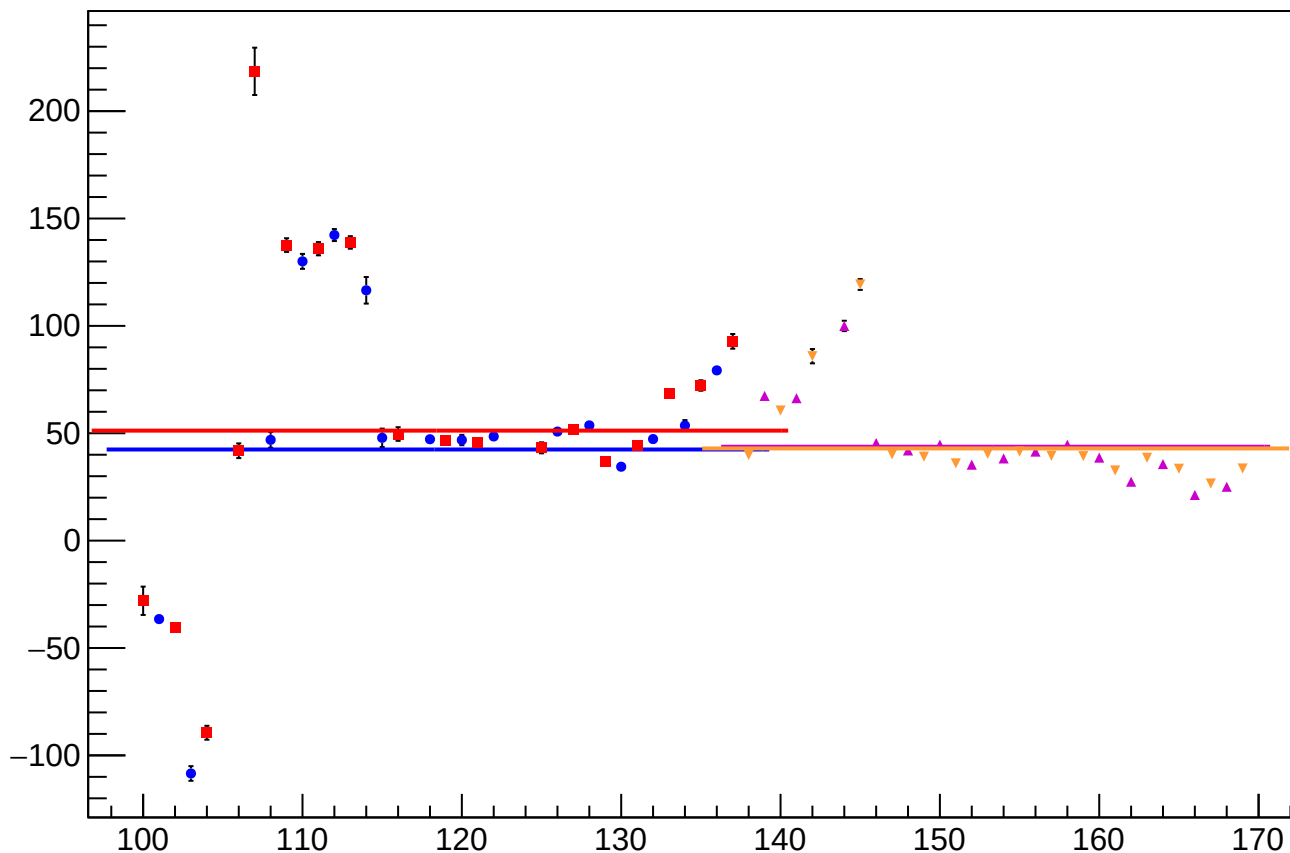
Right: 13.731 $\pm$ 0.375 χ^2 /NDF: 995.5/33

In: 8.149 $\pm$ 0.299 χ^2 /NDF: 974.1/30

Out: 8.167 $\pm$ 0.296 χ^2 /NDF: 916.3/33

All: 8.158 $\pm$ 0.210 χ^2 /NDF: 1890.3/64

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 42.437 $\pm$ 0.584 χ^2 /NDF: 7168.9/15

Left Out: 42.931 $\pm$ 0.507 χ^2 /NDF:1357.0/15

Right Out: 51.226 $\pm$ 0.615 χ^2 /NDF: 6611.3/17

Left In: 43.720 $\pm$ 0.514 χ^2 /NDF:1158.6/14

Left: 43.320 $\pm$ 0.361 χ^2 /NDF: 2516.8/30

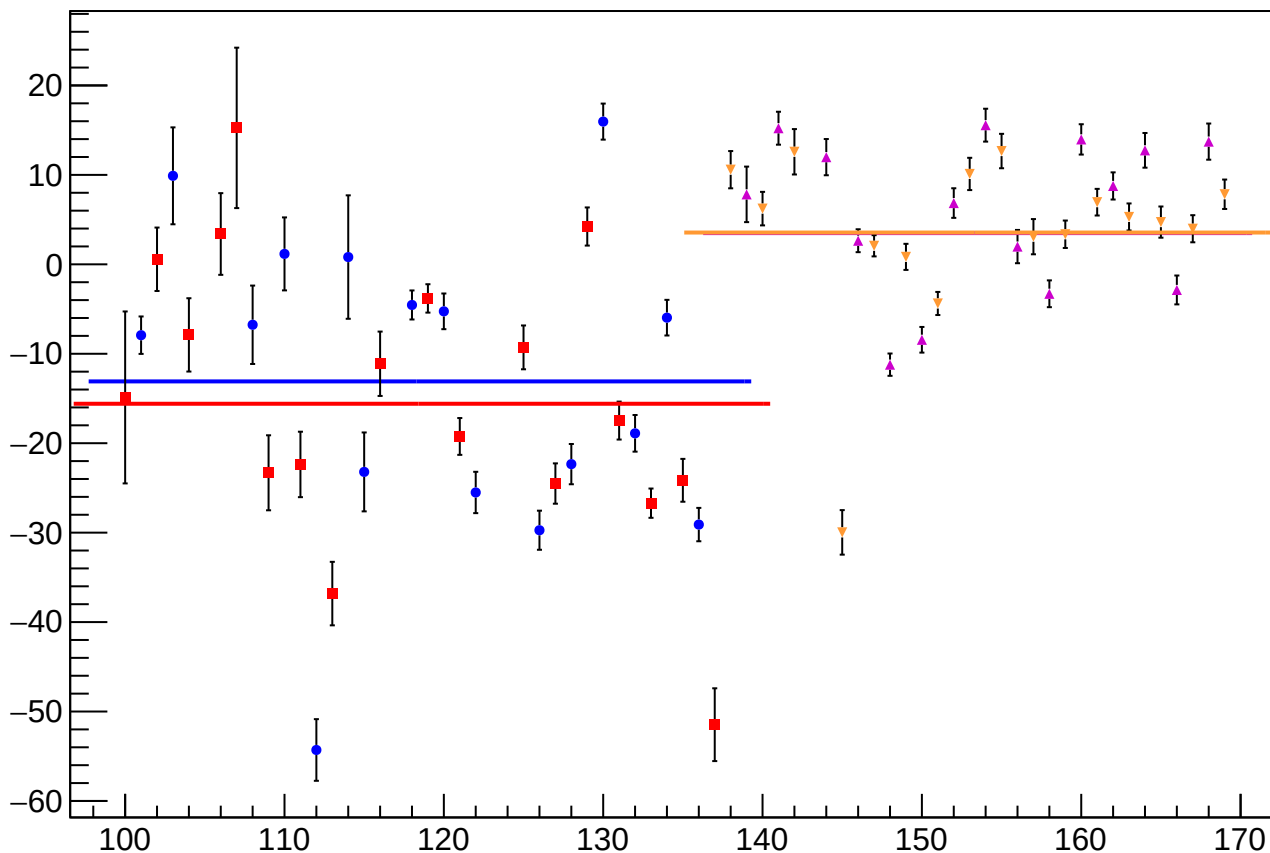
Right: 46.608 $\pm$ 0.424 χ^2 /NDF: 13887.6/33

In: 43.161 $\pm$ 0.386 χ^2 /NDF:8330.2/30

Out: 46.285 $\pm$ 0.391 χ^2 /NDF:8076.7/33

All: 44.702 $\pm$ 0.275 χ^2 /NDF: 16439.3/64

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -13.090 ± 0.600 χ^2/NDF : 639.9/15

Left Out: 3.555 ± 0.412 χ^2/NDF : 299.7/15

Right Out: -15.589 ± 0.627 χ^2/NDF : 401.8/17

Left In: 3.491 ± 0.428 χ^2/NDF : 451.3/14

Left: 3.524 ± 0.297 χ^2/NDF : 751.1/30

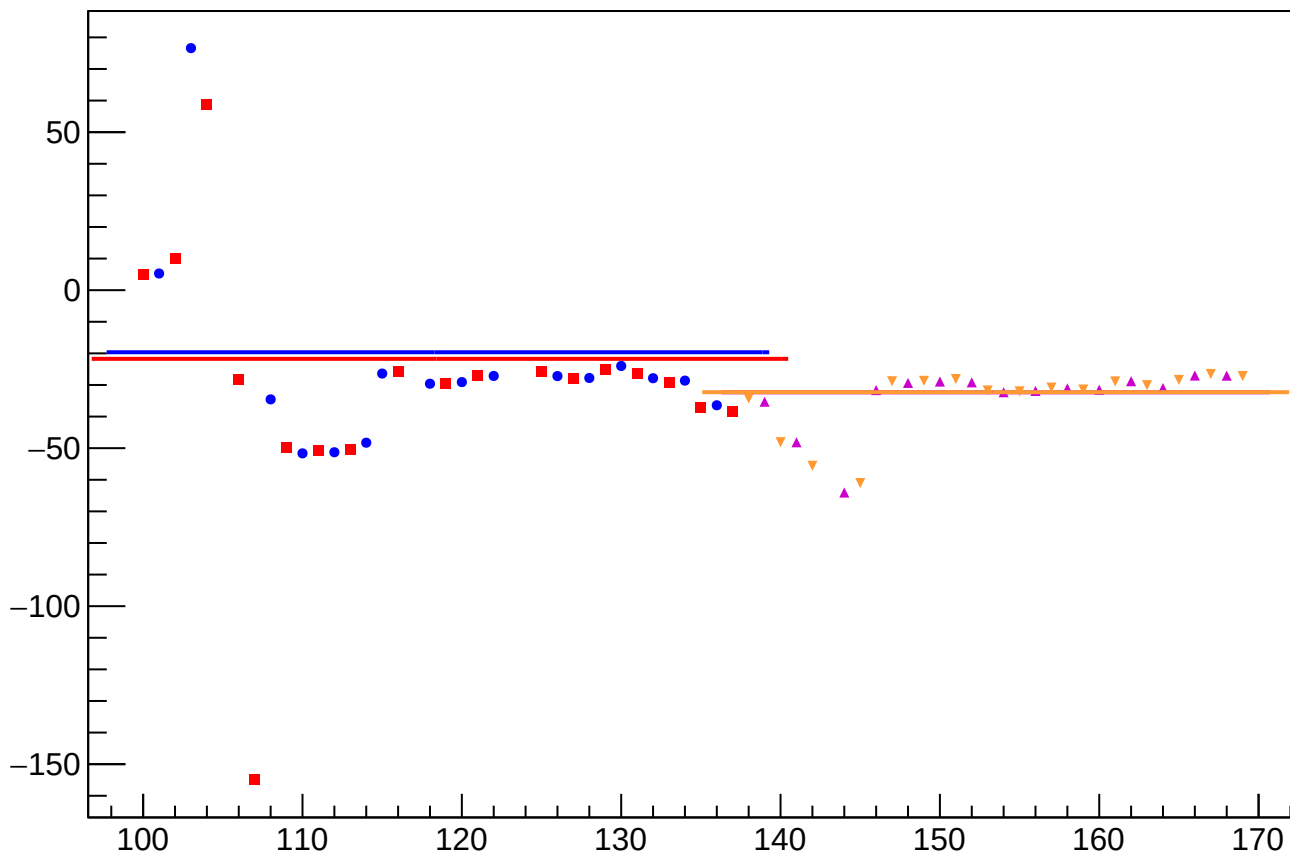
Right: -14.285 ± 0.433 χ^2/NDF : 1050.0/33

In: -2.109 ± 0.349 χ^2/NDF : 1597.5/30

Out: -2.215 ± 0.344 χ^2/NDF : 1353.1/33

All: -2.163 ± 0.245 χ^2/NDF : 2950.7/64

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -19.644 ± 0.036 χ^2/NDF : 646925.7/15

Left Out: -32.282 ± 0.019 χ^2/NDF : 174469.9/15

Right Out: -21.730 ± 0.039 χ^2/NDF : 546659.9/17

Left In: -32.321 ± 0.019 χ^2/NDF : 139115.6/14

Left: -32.301 ± 0.014 χ^2/NDF : 313587.6/30

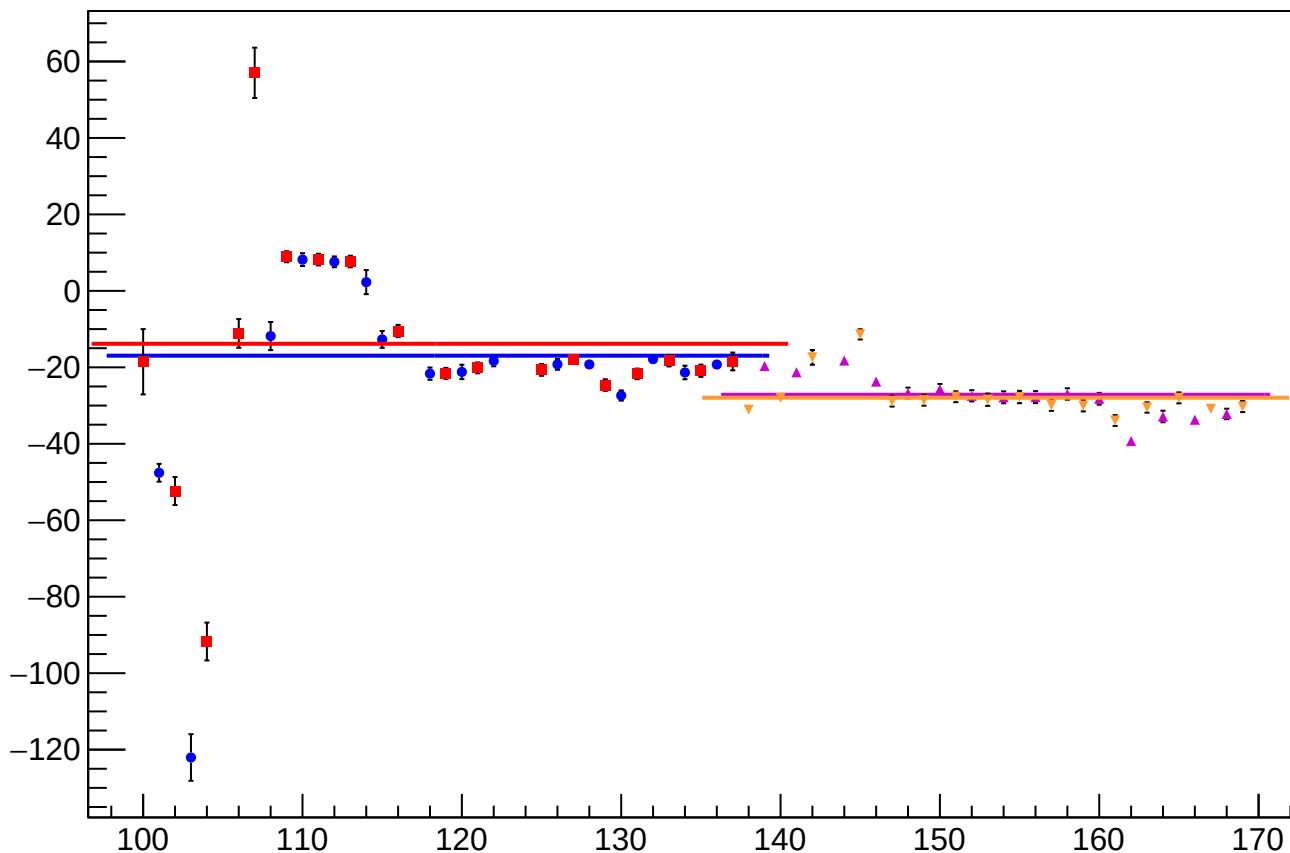
Right: -20.610 ± 0.026 χ^2/NDF : 1195130.0/33

In: -29.507 ± 0.017 χ^2/NDF : 881922.8/30

Out: -30.242 ± 0.017 χ^2/NDF : 780523.9/33

All: -29.873 ± 0.012 χ^2/NDF : 1663376.0/64

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -16.949 ± 0.404 $\chi^2/\text{NDF}: 1128.2/15$

Left Out: -27.946 ± 0.352 $\chi^2/\text{NDF}: 224.5/15$

Right Out: -13.837 ± 0.409 $\chi^2/\text{NDF}: 1333.2/17$

Left In: -27.174 ± 0.356 $\chi^2/\text{NDF}: 264.2/14$

Left: -27.565 ± 0.250 $\chi^2/\text{NDF}: 491.1/30$

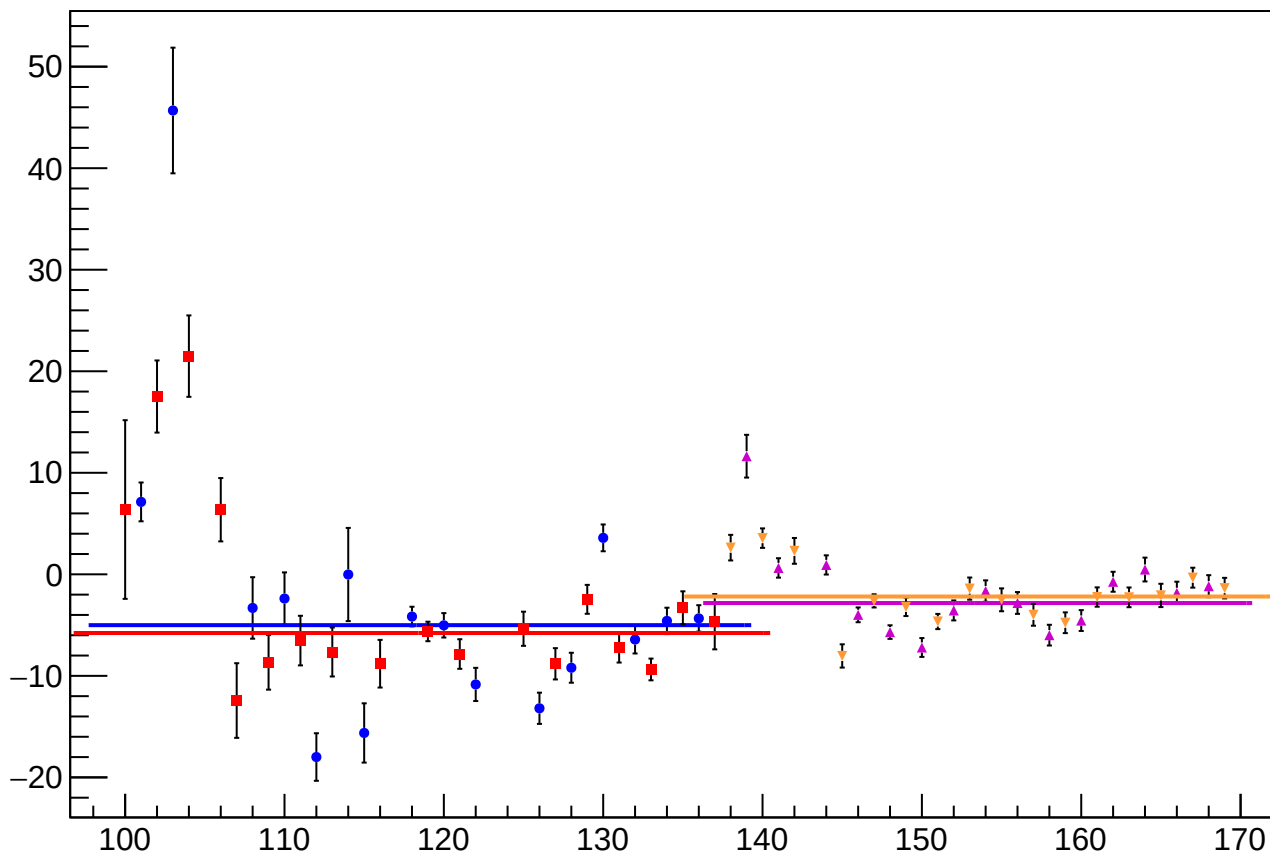
Right: -15.414 ± 0.287 $\chi^2/\text{NDF}: 2490.7/33$

In: -22.709 ± 0.267 $\chi^2/\text{NDF}: 1753.5/30$

Out: -21.951 ± 0.267 $\chi^2/\text{NDF}: 2241.4/33$

All: -22.330 ± 0.189 $\chi^2/\text{NDF}: 3998.9/64$

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -5.006 ± 0.401 χ^2/NDF : 247.8/15

Left Out: -2.186 ± 0.244 χ^2/NDF : 115.6/15

Right Out: -5.779 ± 0.419 χ^2/NDF : 139.3/17

Left In: -2.826 ± 0.251 χ^2/NDF : 149.0/14

Left: -2.497 ± 0.175 χ^2/NDF : 267.9/30

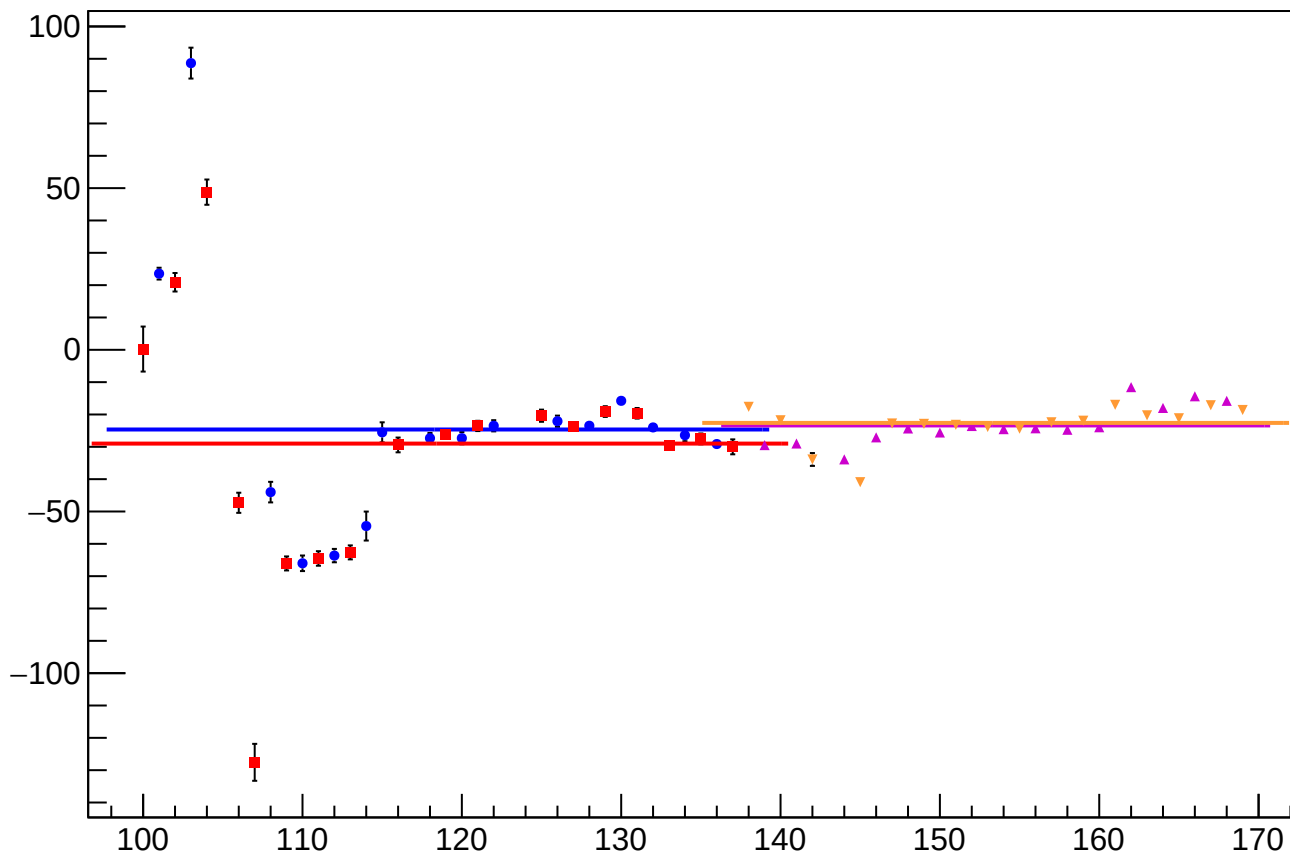
Right: -5.375 ± 0.290 χ^2/NDF : 388.9/33

In: -3.439 ± 0.213 χ^2/NDF : 417.9/30

Out: -3.092 ± 0.211 χ^2/NDF : 309.9/33

All: -3.264 ± 0.150 χ^2/NDF : 729.1/64

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -24.641 ± 0.455 χ^2/NDF : 2051.8/15

Left Out: -22.602 ± 0.343 χ^2/NDF : 280.5/15

Right Out: -29.002 ± 0.475 χ^2/NDF : 1952.3/17

Left In: -23.387 ± 0.346 χ^2/NDF : 305.0/14

Left: -22.991 ± 0.244 χ^2/NDF : 588.1/30

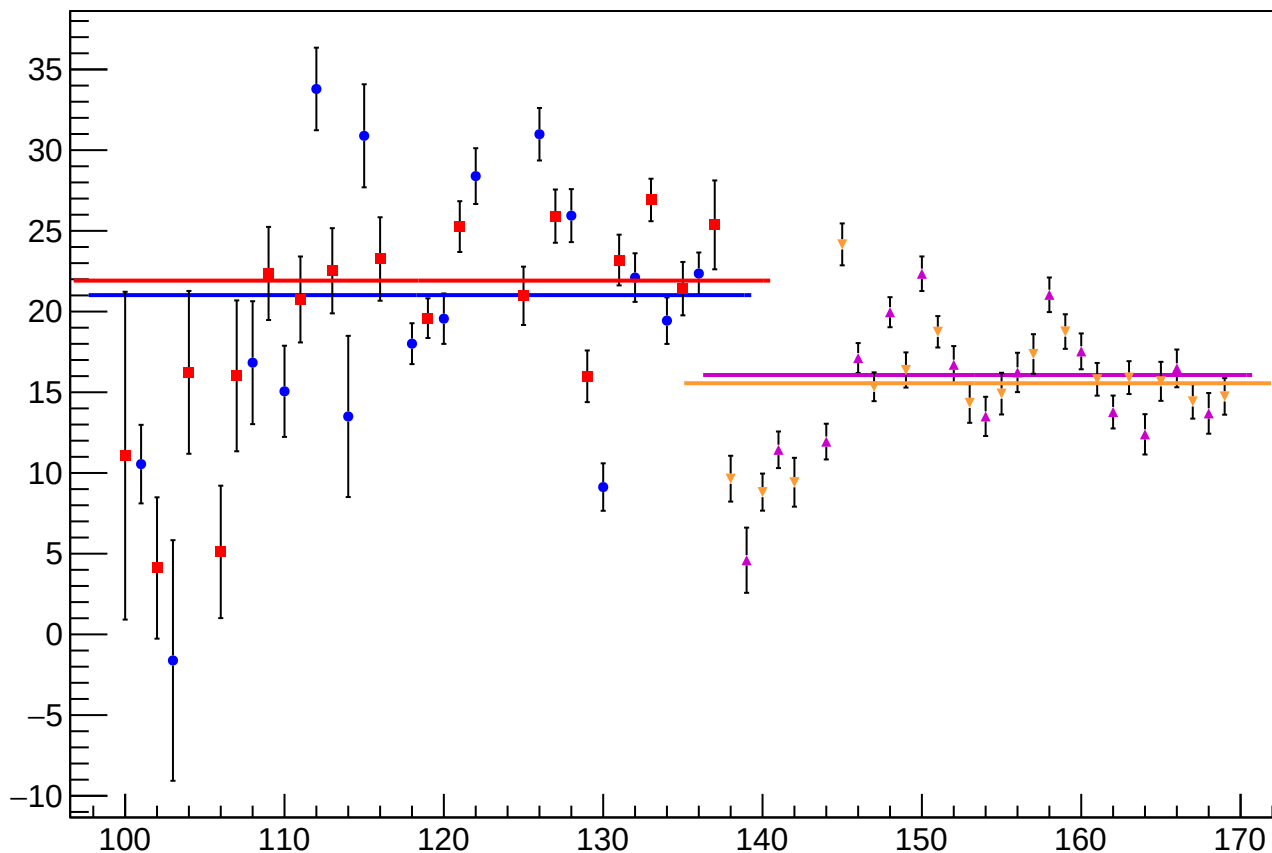
Right: -26.727 ± 0.329 χ^2/NDF : 4048.0/33

In: -23.847 ± 0.275 χ^2/NDF : 2361.7/30

Out: -24.797 ± 0.278 χ^2/NDF : 2352.0/33

All: -24.317 ± 0.196 χ^2/NDF : 4719.5/64

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 21.019 $\pm$ 0.458 χ^2 /NDF: 209.6/15

Left Out: 15.560 $\pm$ 0.283 χ^2 /NDF:137.7/15

Right Out: 21.918 $\pm$ 0.478 χ^2 /NDF: 82.5/17

Left In: 16.069 $\pm$ 0.291 χ^2 /NDF:161.4/14

Left: 15.807 $\pm$ 0.203 χ^2 /NDF: 300.6/30

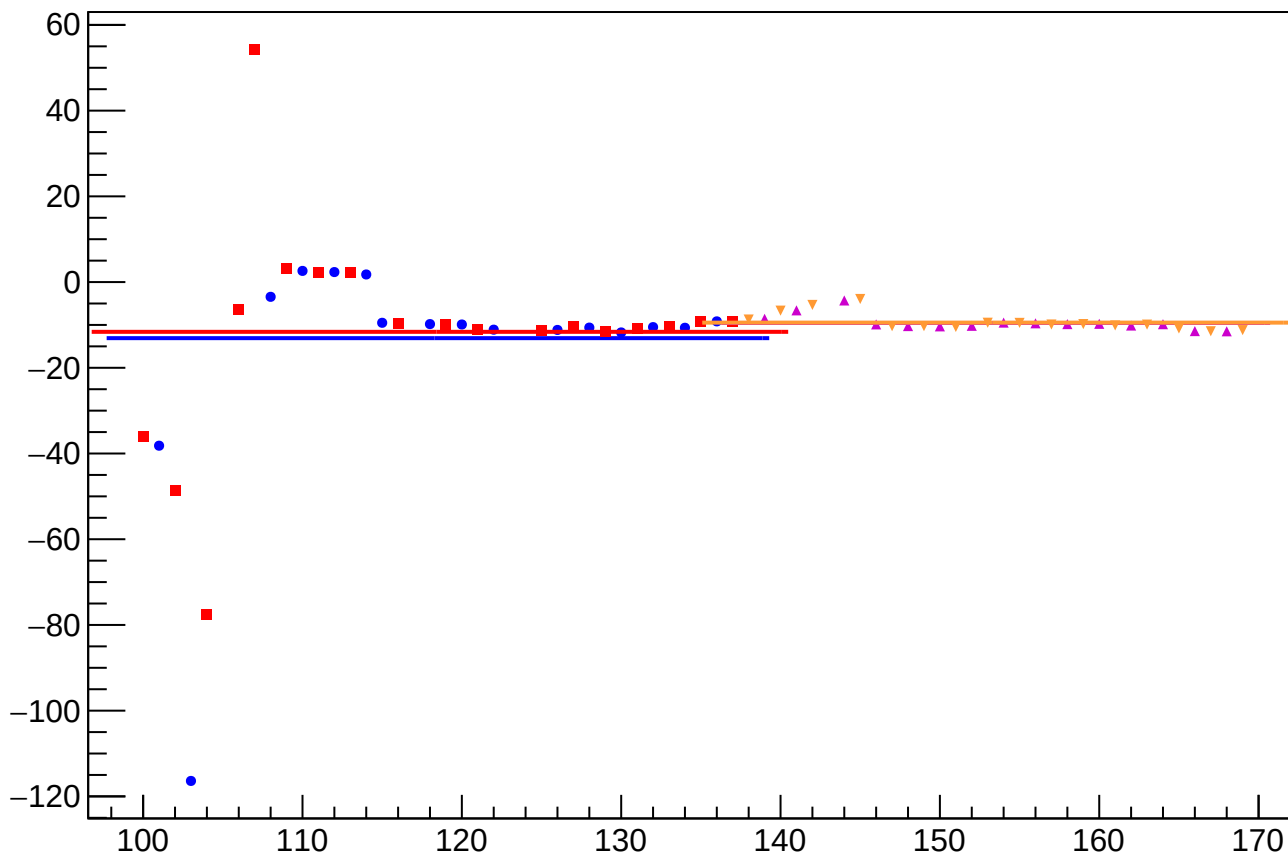
Right: 21.449 $\pm$ 0.331 χ^2 /NDF: 294.0/33

In: 17.495 $\pm$ 0.246 χ^2 /NDF:454.0/30

Out: 17.205 $\pm$ 0.243 χ^2 /NDF:351.1/33

All: 17.349 $\pm$ 0.173 χ^2 /NDF: 805.9/64

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -13.086 ± 0.028 χ^2/NDF : 344941.2/15

Left Out: -9.464 ± 0.013 χ^2/NDF : 21198.5/15

Right Out: -11.610 ± 0.031 χ^2/NDF : 314183.9/17

Left In: -9.544 ± 0.013 χ^2/NDF : 15267.7/14

Left: -9.504 ± 0.009 χ^2/NDF : 36485.3/30

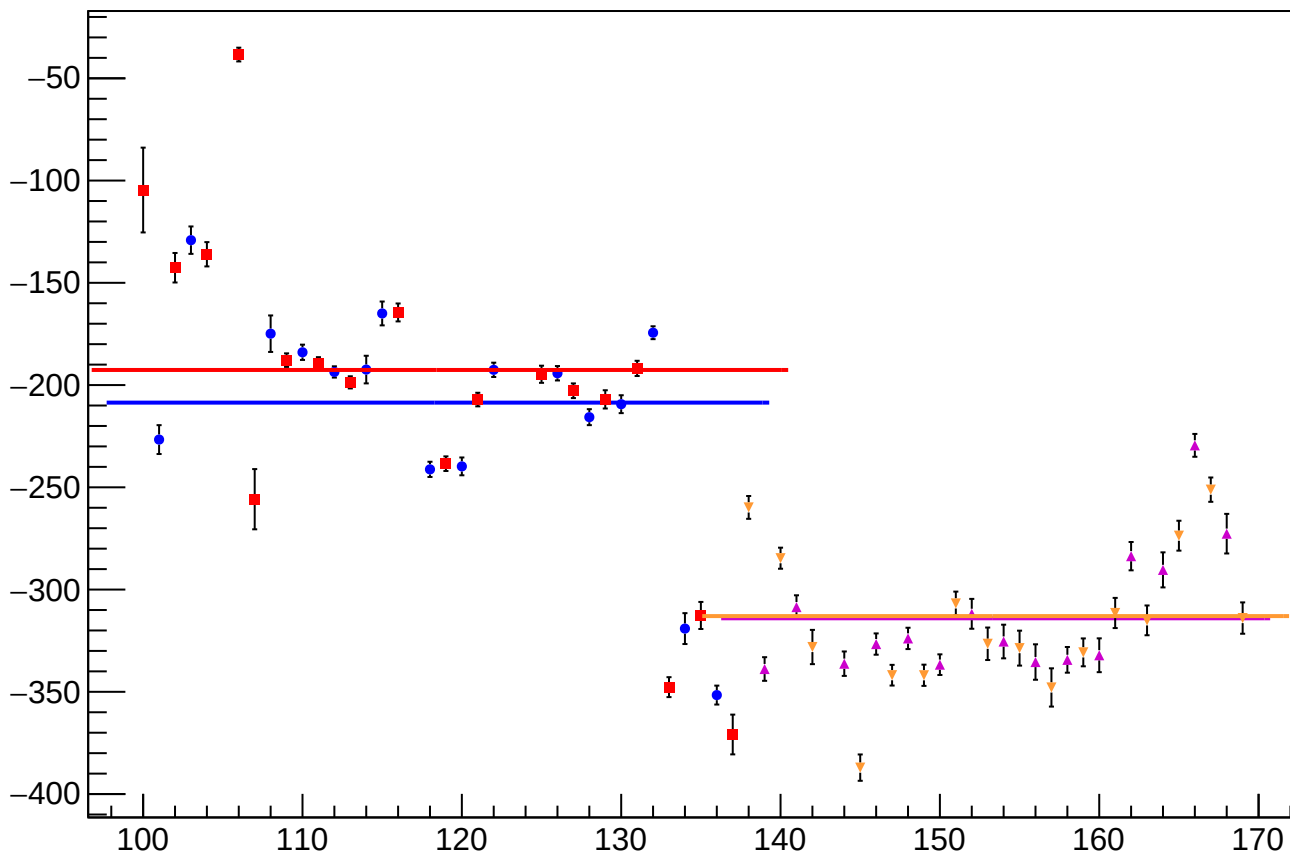
Right: -12.409 ± 0.021 χ^2/NDF : 660362.1/33

In: -10.155 ± 0.012 χ^2/NDF : 373072.4/30

Out: -9.781 ± 0.012 χ^2/NDF : 339494.9/33

All: -9.969 ± 0.008 χ^2/NDF : 713065.6/64

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Left: -313.503 ± 1.160 $\chi^2/\text{NDF}: 845.9/30$

Right: -200.079 ± 0.729 $\chi^2/\text{NDF}: 6077.7/33$

In: -239.515 ± 0.897 $\chi^2/\text{NDF}: 4979.2/30$

Out: -225.575 ± 0.851 $\chi^2/\text{NDF}: 8668.3/33$

All: -232.183 ± 0.617 $\chi^2/\text{NDF}: 13774.7/64$

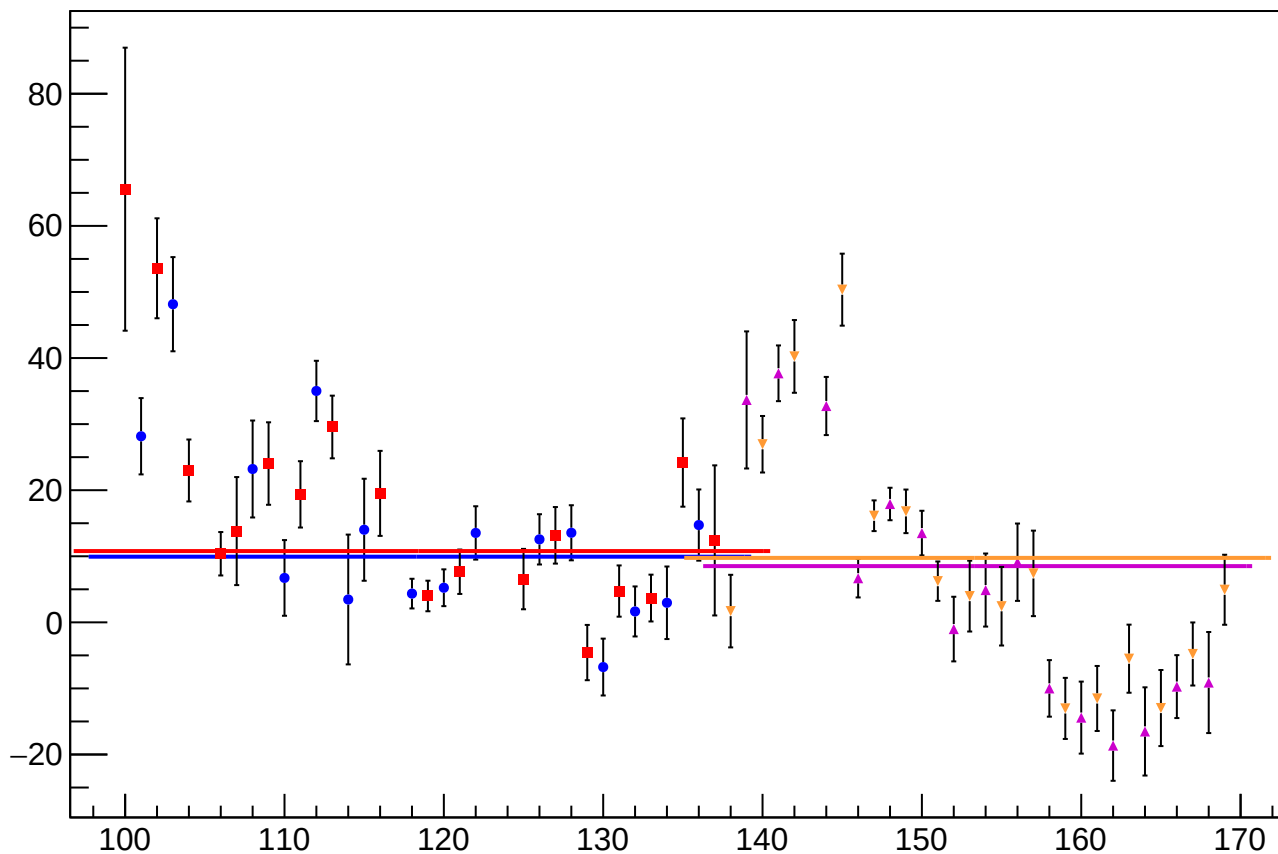
Right In: -208.586 ± 1.067 $\chi^2/\text{NDF}: 1751.1/15$

Left Out: -312.972 ± 1.627 $\chi^2/\text{NDF}: 485.5/15$

Right Out: -192.617 ± 0.999 $\chi^2/\text{NDF}: 4207.1/17$

Left In: -314.053 ± 1.656 $\chi^2/\text{NDF}: 360.2/14$

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 9.938 ± 1.065 χ^2/NDF : 106.6/15

Left Out: 9.755 ± 1.074 χ^2/NDF : 198.2/15

Right Out: 10.788 ± 1.044 χ^2/NDF : 105.1/17

Left In: 8.510 ± 1.119 χ^2/NDF : 201.9/14

Left: 9.158 ± 0.775 χ^2/NDF : 400.8/30

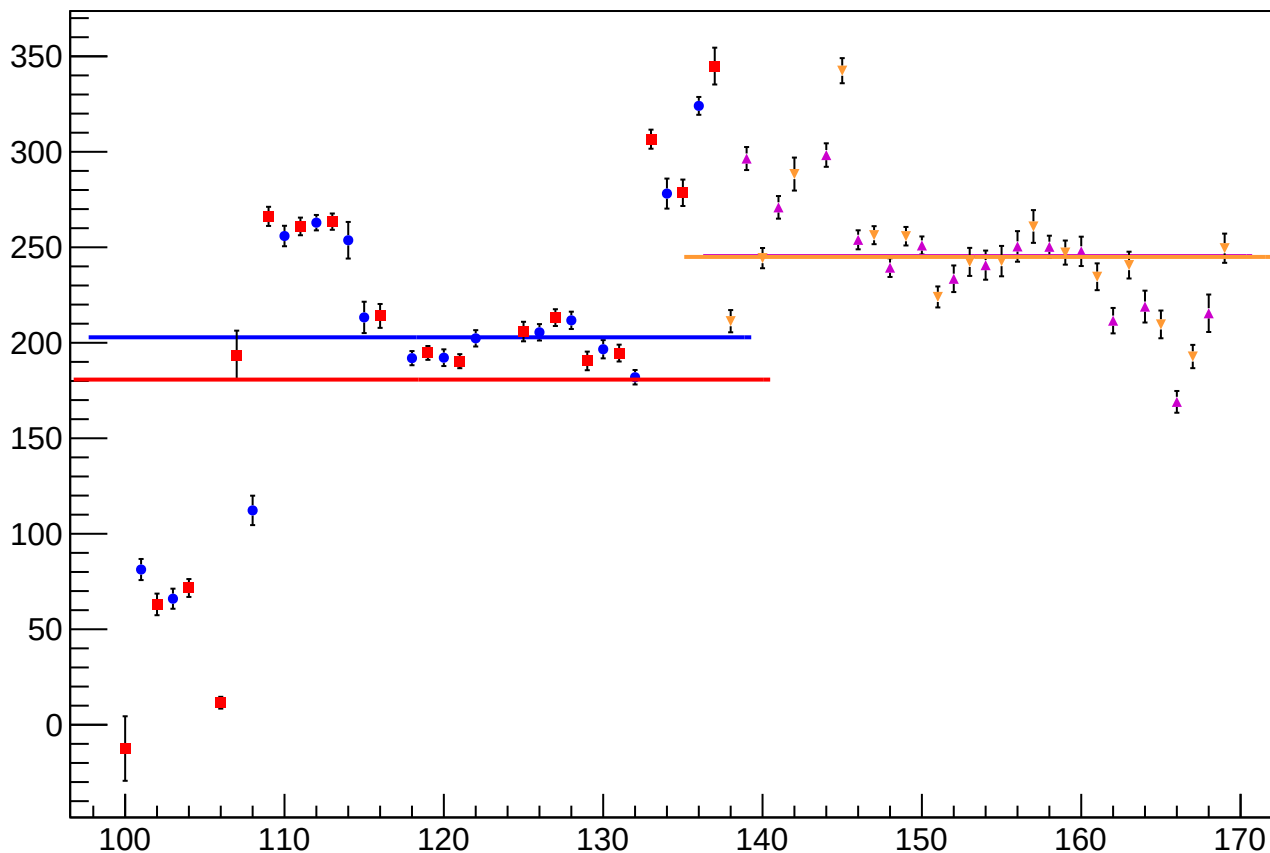
Right: 10.372 ± 0.746 χ^2/NDF : 212.0/33

In: 9.259 ± 0.771 χ^2/NDF : 309.3/30

Out: 10.287 ± 0.749 χ^2/NDF : 303.8/33

All: 9.788 ± 0.537 χ^2/NDF : 614.0/64

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 202.874 $\pm$ 1.226 χ^2 /NDF: 2464.2/15

Left Out: 244.962 $\pm$ 1.583 χ^2 /NDF:407.6/15

Right Out: 180.731 $\pm$ 1.144 χ^2 /NDF: 6347.9/17

Left In: 245.417 $\pm$ 1.605 χ^2 /NDF:399.3/14

Left: 245.186 $\pm$ 1.127 χ^2 /NDF: 806.9/30

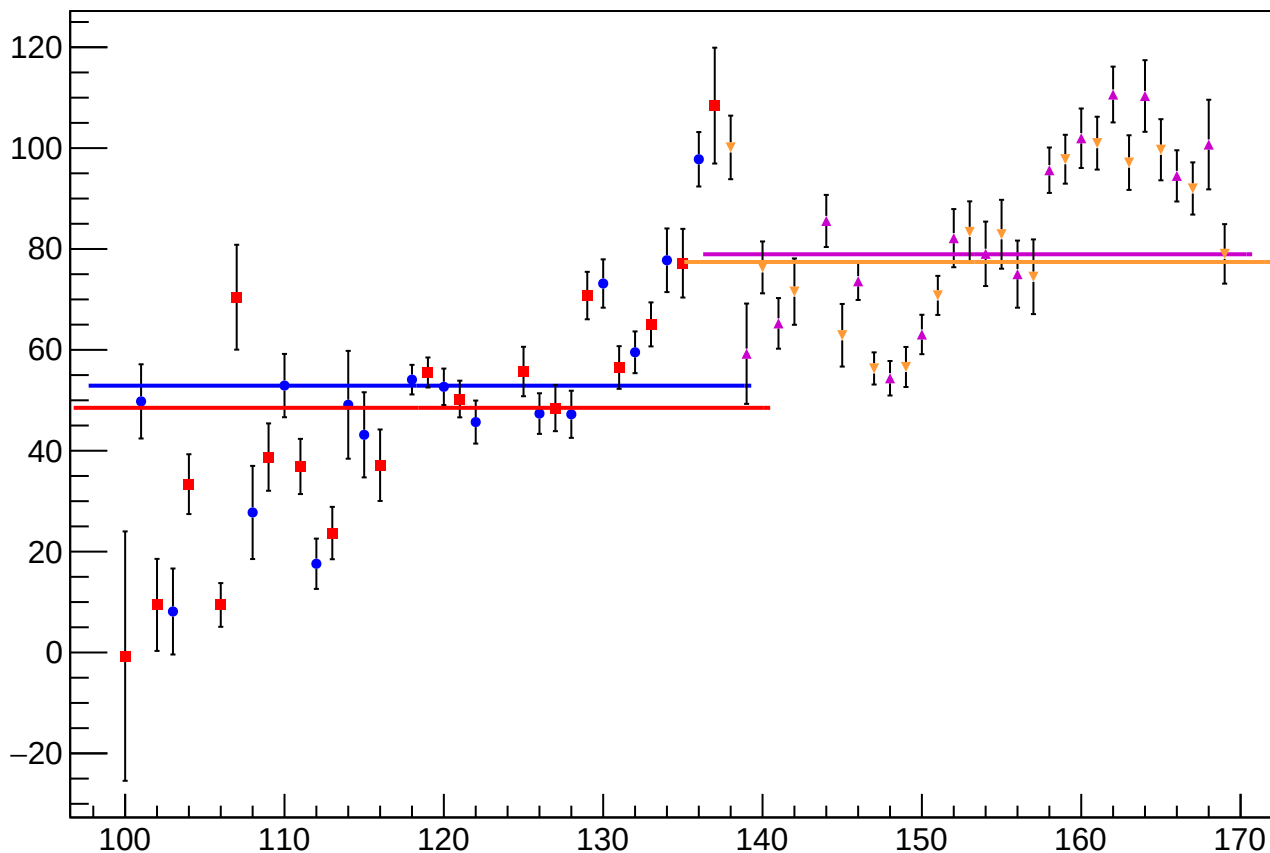
Right: 191.037 $\pm$ 0.836 χ^2 /NDF: 8986.6/33

In: 218.539 $\pm$ 0.974 χ^2 /NDF:3307.2/30

Out: 202.752 $\pm$ 0.927 χ^2 /NDF:7836.9/33

All: 210.255 $\pm$ 0.672 χ^2 /NDF: 11281.9/64

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 52.899 $\pm$ 1.242 χ^2 /NDF: 198.3/15

Left Out: 77.425 $\pm$ 1.276 χ^2 /NDF:167.9/15

Right Out: 48.510 $\pm$ 1.214 χ^2 /NDF: 240.0/17

Left In: 78.951 $\pm$ 1.324 χ^2 /NDF:180.6/14

Left: 78.160 $\pm$ 0.919 χ^2 /NDF: 349.2/30

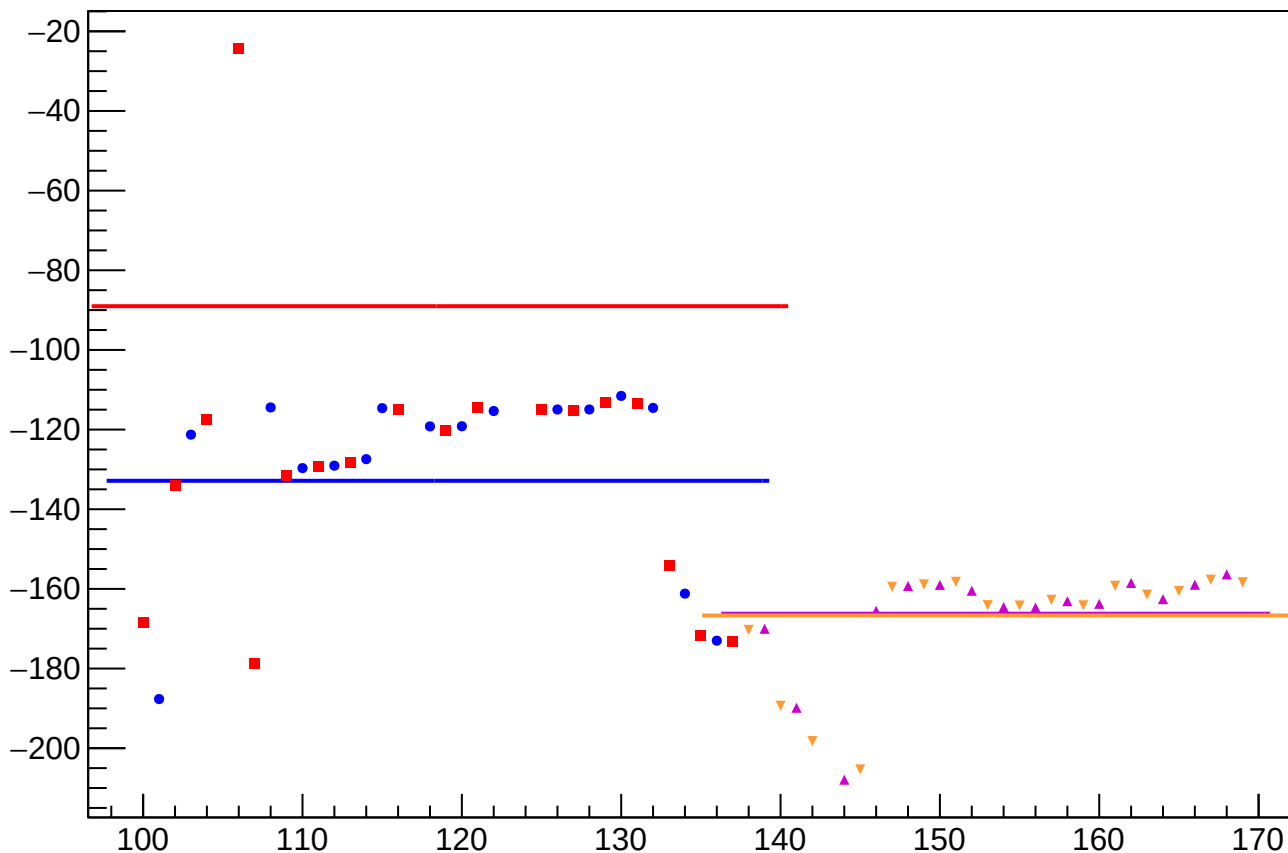
Right: 50.656 $\pm$ 0.868 χ^2 /NDF: 444.7/33

In: 65.087 $\pm$ 0.906 χ^2 /NDF:584.9/30

Out: 62.247 $\pm$ 0.880 χ^2 /NDF:677.3/33

All: 63.625 $\pm$ 0.631 χ^2 /NDF: 1267.3/64

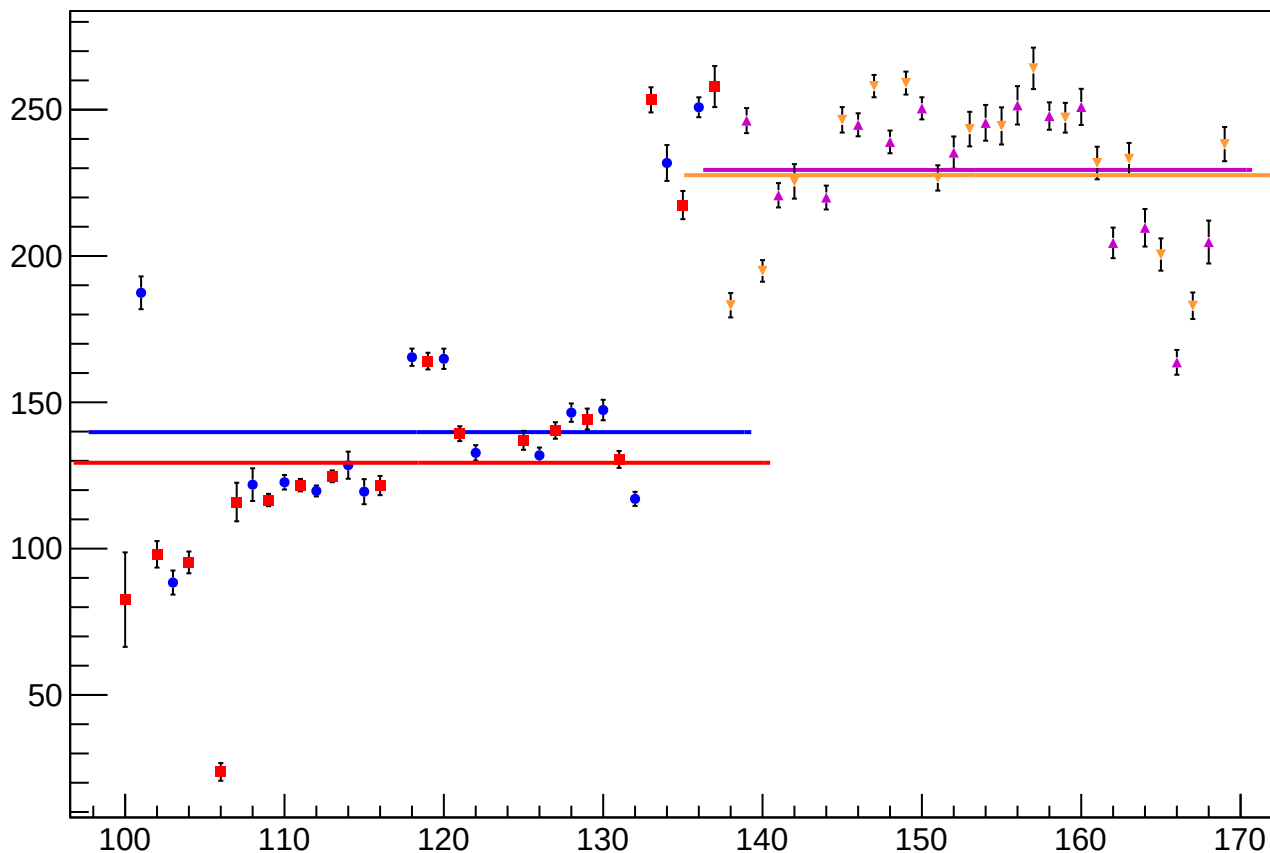
reg_asym_usl_atl2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -132.856+/-0.081 χ^2/NDF : 93497.9/15
 Left Out: -166.683+/-0.061 χ^2/NDF : 48486.9/15
 Right Out: -89.020+/-0.064 χ^2/NDF : 728110.1/17
 Left In: -166.227+/-0.061 χ^2/NDF : 39185.1/14

Left: -166.457+/-0.043 χ^2/NDF : 87699.7/30
 Right: -105.832+/-0.050 χ^2/NDF : 1000593.4/33
 In: -154.094+/-0.049 χ^2/NDF : 239771.1/30
 Out: -129.858+/-0.044 χ^2/NDF : 1546862.0/33
 All: -140.714+/-0.033 χ^2/NDF : 1921395.2/64

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 139.810 ± 0.785 $\chi^2/\text{NDF}: 1964.9/15$

Left Out: 227.618 ± 1.205 $\chi^2/\text{NDF}: 520.8/15$

Right Out: 129.344 ± 0.734 $\chi^2/\text{NDF}: 3123.5/17$

Left In: 229.409 ± 1.228 $\chi^2/\text{NDF}: 408.7/14$

Left: 228.497 ± 0.860 $\chi^2/\text{NDF}: 930.5/30$

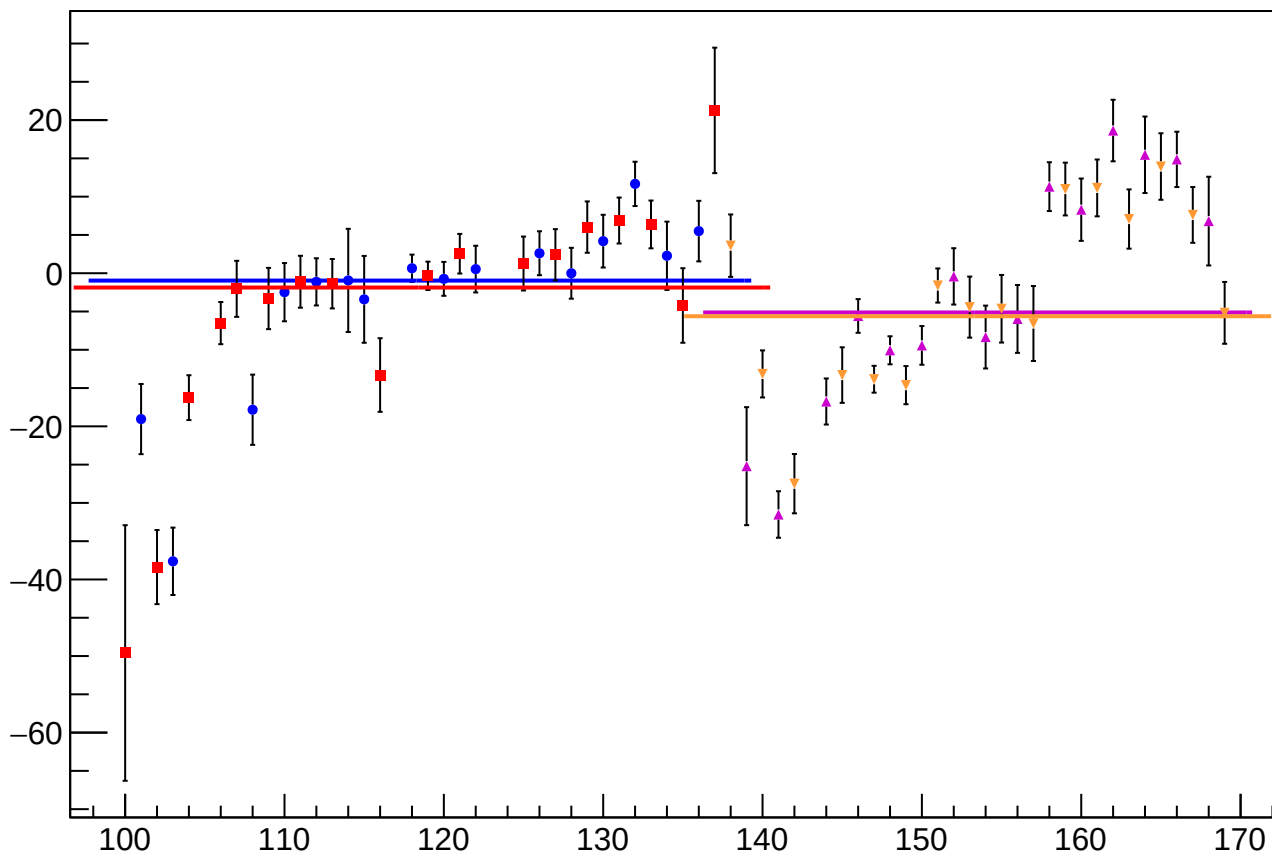
Right: 134.231 ± 0.536 $\chi^2/\text{NDF}: 5183.3/33$

In: 165.794 ± 0.661 $\chi^2/\text{NDF}: 6155.8/30$

Out: 155.943 ± 0.627 $\chi^2/\text{NDF}: 8492.7/33$

All: 160.608 ± 0.455 $\chi^2/\text{NDF}: 14765.4/64$

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.963 ± 0.808 χ^2/NDF : 126.1/15

Left Out: -5.617 ± 0.799 χ^2/NDF : 173.9/15

Right Out: -1.869 ± 0.784 χ^2/NDF : 133.2/17

Left In: -5.126 ± 0.831 χ^2/NDF : 233.9/14

Left: -5.381 ± 0.576 χ^2/NDF : 408.0/30

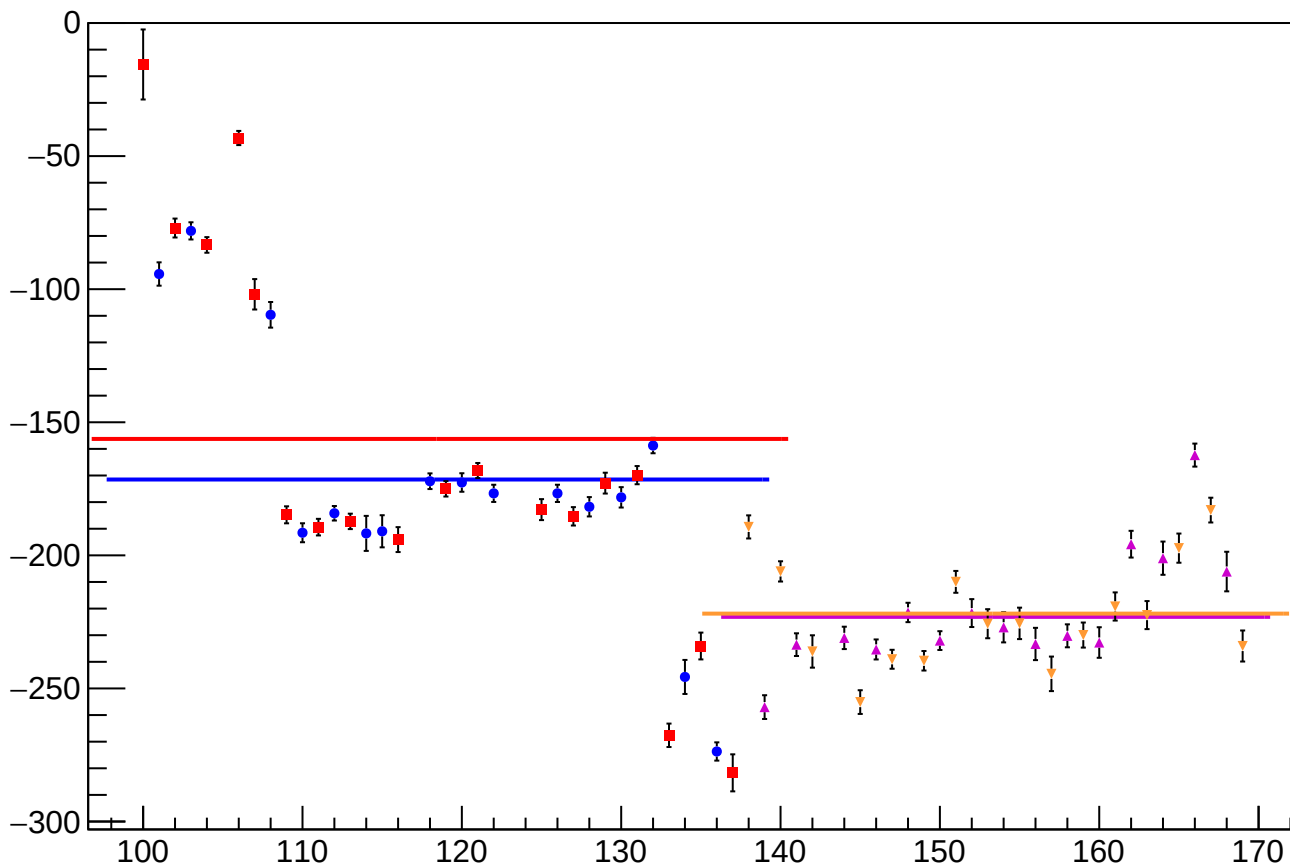
Right: -1.430 ± 0.563 χ^2/NDF : 259.9/33

In: -2.987 ± 0.579 χ^2/NDF : 372.9/30

Out: -3.706 ± 0.560 χ^2/NDF : 318.3/33

All: -3.359 ± 0.402 χ^2/NDF : 692.0/64

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -171.506 ± 0.907 χ^2/NDF : 2442.8/15

Left Out: -221.893 ± 1.175 χ^2/NDF : 300.5/15

Right Out: -156.260 ± 0.847 χ^2/NDF : 4904.3/17

Left In: -223.105 ± 1.192 χ^2/NDF : 338.2/14

Left: -222.490 ± 0.837 χ^2/NDF : 639.2/30

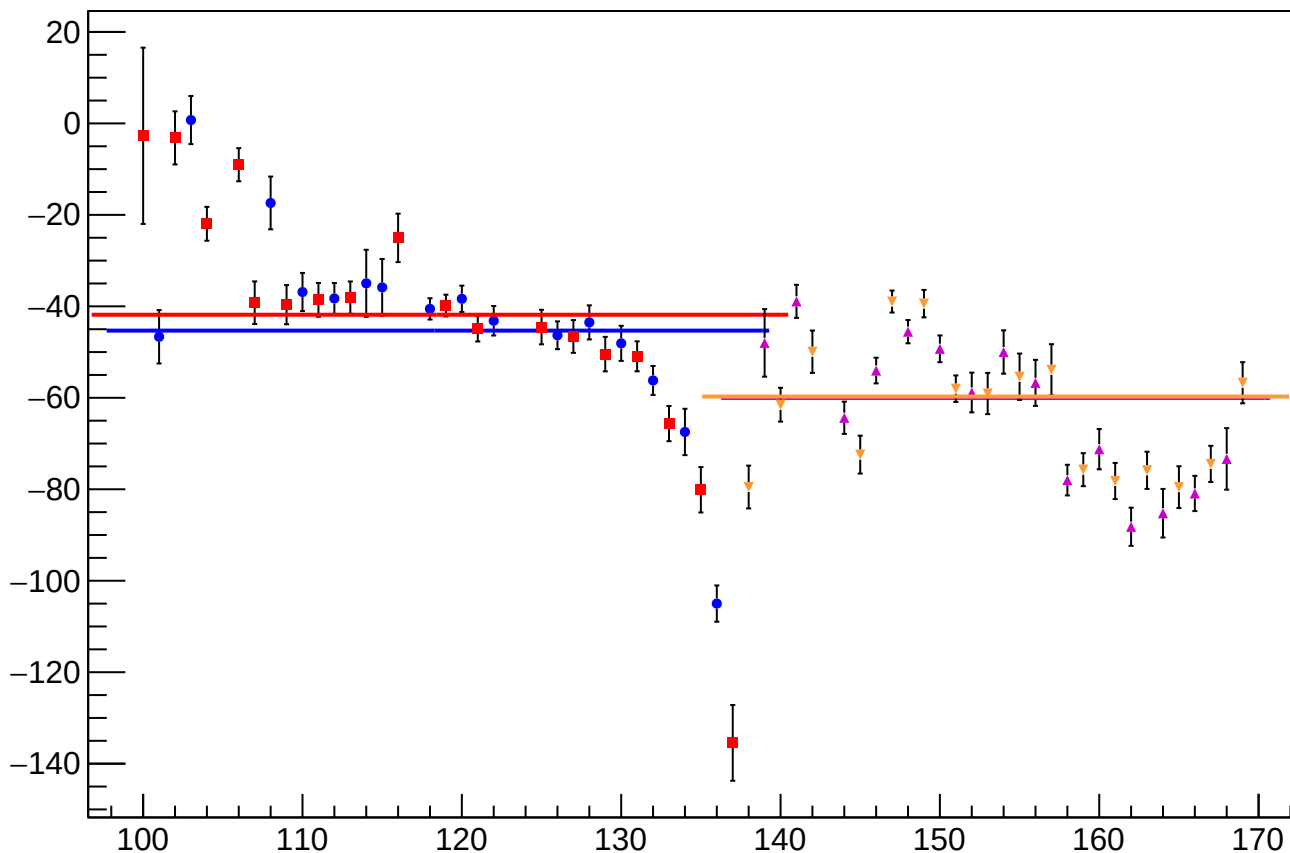
Right: -163.367 ± 0.619 χ^2/NDF : 7498.1/33

In: -190.427 ± 0.722 χ^2/NDF : 3968.2/30

Out: -178.711 ± 0.687 χ^2/NDF : 7257.2/33

All: -184.284 ± 0.498 χ^2/NDF : 11363.6/64

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -45.304 ± 0.938 $\chi^2/\text{NDF}: 382.0/15$

Left Out: -59.722 ± 0.949 $\chi^2/\text{NDF}: 245.0/15$

Right Out: -41.832 ± 0.909 $\chi^2/\text{NDF}: 414.2/17$

Left In: -60.036 ± 0.984 $\chi^2/\text{NDF}: 230.2/14$

Left: -59.873 ± 0.683 $\chi^2/\text{NDF}: 475.3/30$

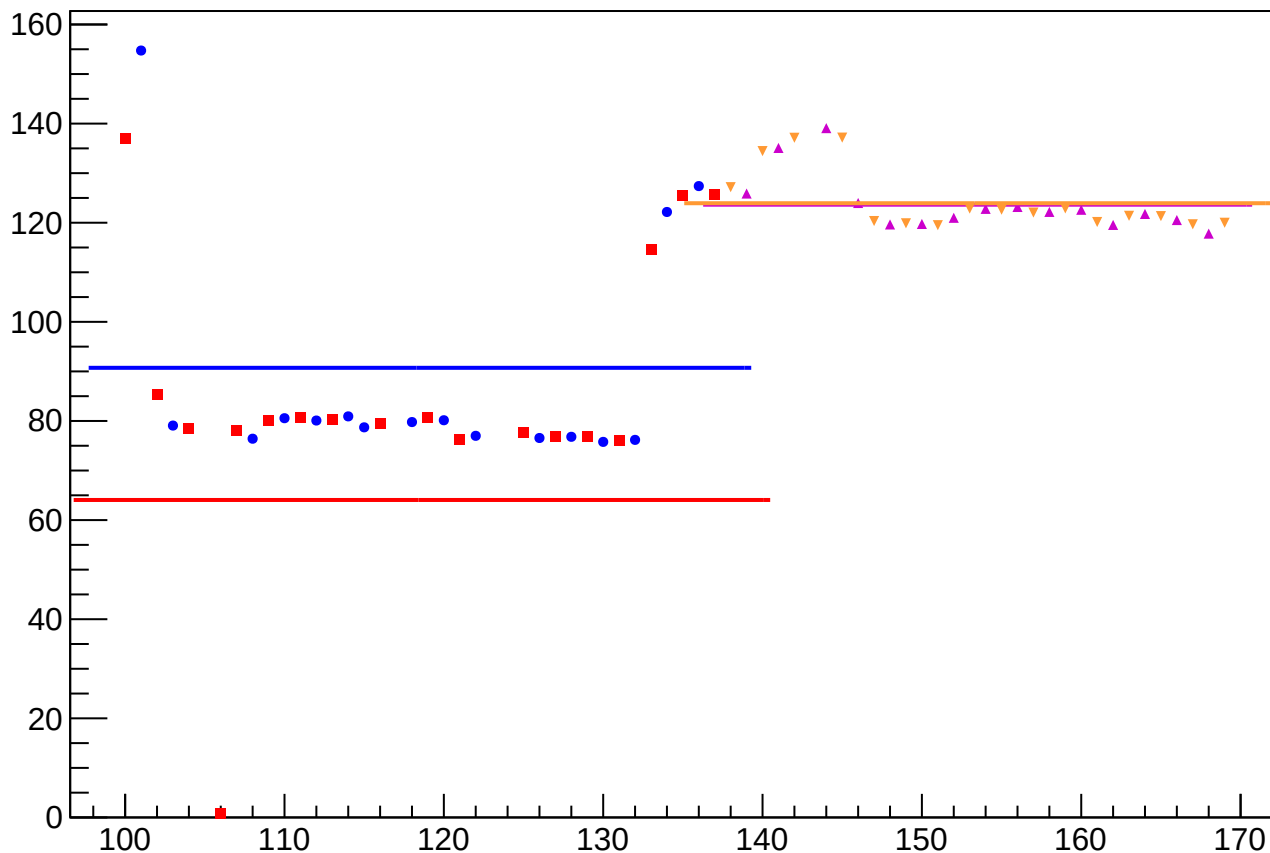
Right: -43.515 ± 0.653 $\chi^2/\text{NDF}: 803.4/33$

In: -52.316 ± 0.679 $\chi^2/\text{NDF}: 729.8/30$

Out: -50.392 ± 0.657 $\chi^2/\text{NDF}: 844.4/33$

All: -51.322 ± 0.472 $\chi^2/\text{NDF}: 1578.4/64$

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 90.726+/-0.058 χ^2/NDF : 161153.0/15

Left Out: 123.935+/-0.045 χ^2/NDF :16478.2/15

Right Out: 64.059+/-0.049 χ^2/NDF : 660935.1/17

Left In: 123.639+/-0.046 χ^2/NDF :14431.2/14

Left: 123.788+/-0.032 χ^2/NDF : 30930.4/30

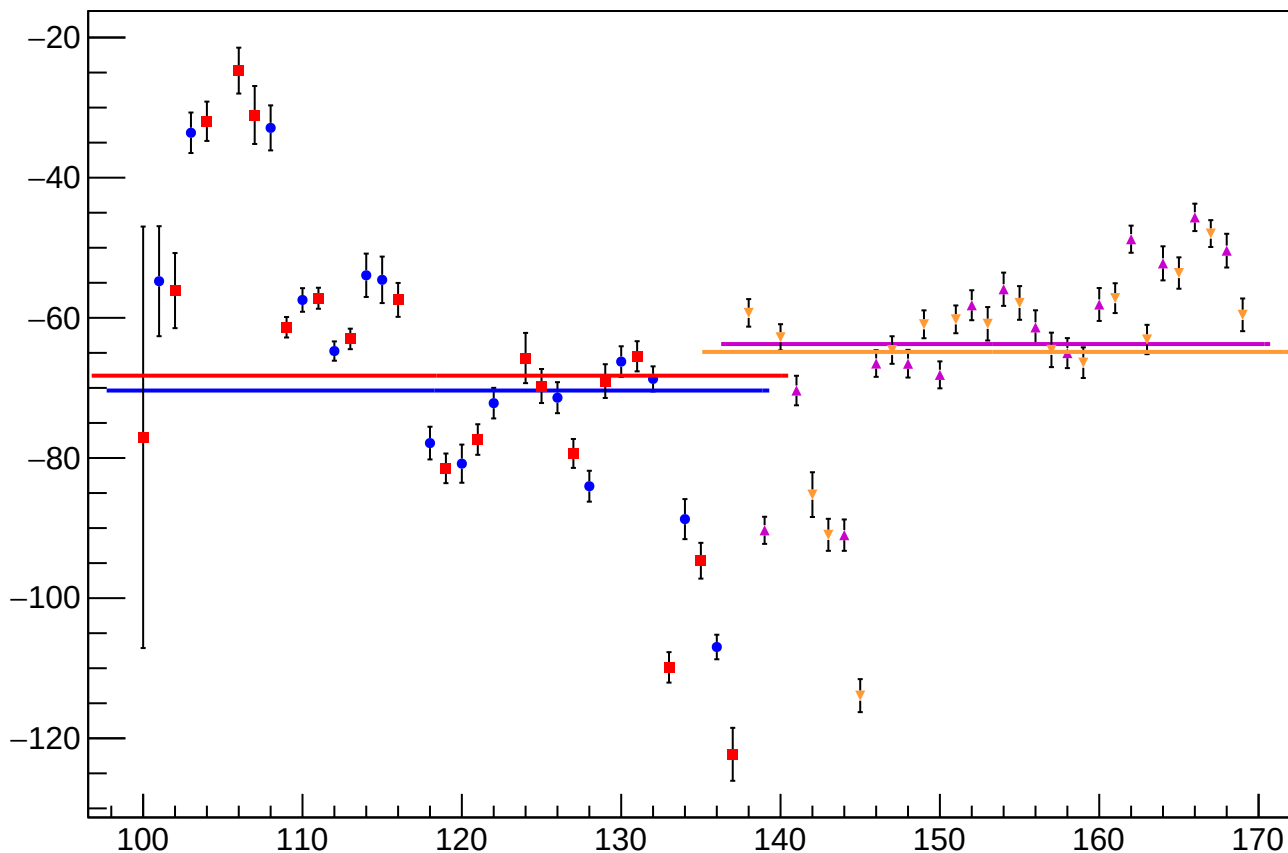
Right: 75.136+/-0.038 χ^2/NDF : 943639.1/33

In: 111.148+/-0.036 χ^2/NDF :372103.3/30

Out: 96.517+/-0.033 χ^2/NDF :1477165.5/33

All: 103.270+/-0.024 χ^2/NDF : 1938052.9/64

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -70.374 ± 0.558 $\chi^2/\text{NDF}: 974.9/15$

Left Out: -64.863 ± 0.527 $\chi^2/\text{NDF}: 757.0/16$

Right Out: -68.252 ± 0.527 $\chi^2/\text{NDF}: 1306.0/18$

Left In: -63.741 ± 0.548 $\chi^2/\text{NDF}: 579.3/14$

Left: -64.325 ± 0.380 $\chi^2/\text{NDF}: 1338.5/31$

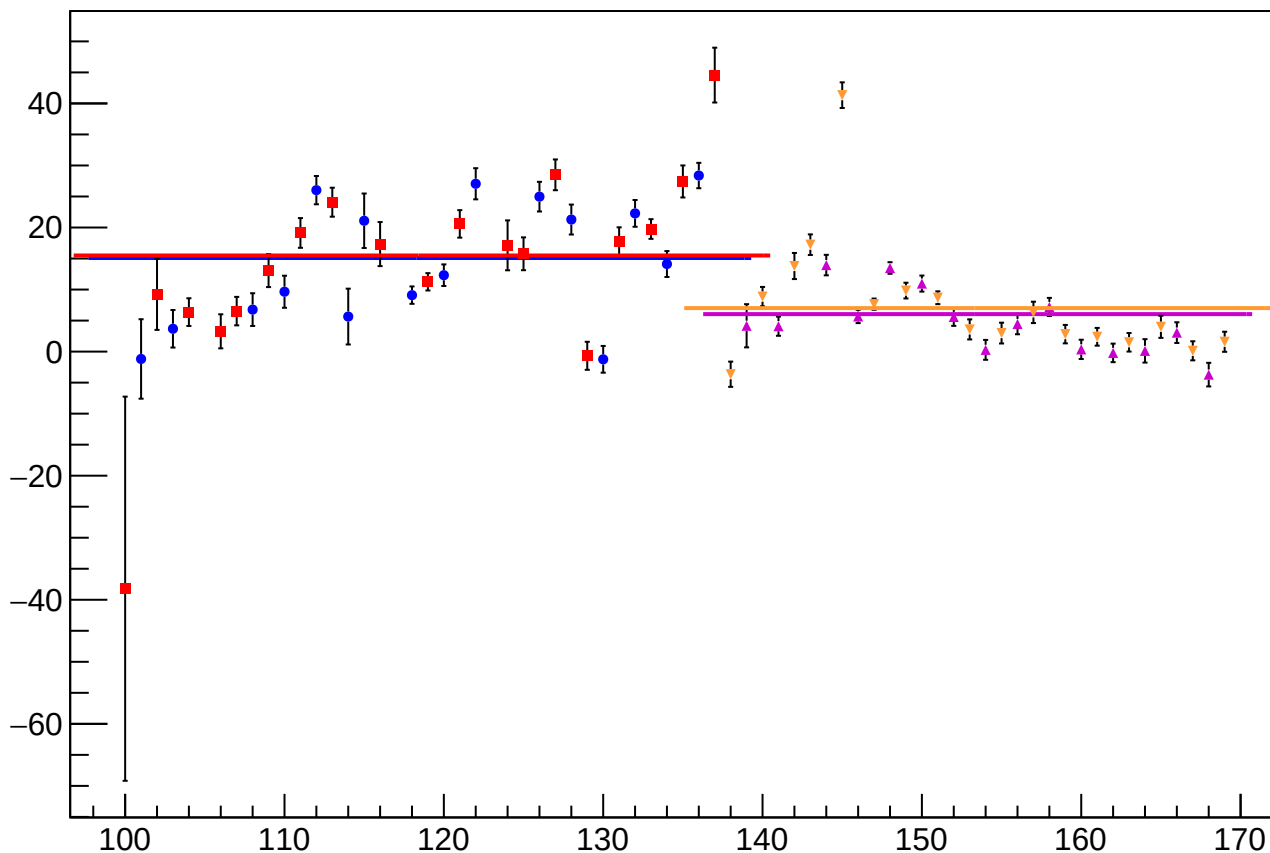
Right: -69.252 ± 0.383 $\chi^2/\text{NDF}: 2288.5/34$

In: -67.000 ± 0.391 $\chi^2/\text{NDF}: 1626.2/30$

Out: -66.557 ± 0.372 $\chi^2/\text{NDF}: 2083.7/35$

All: -66.768 ± 0.270 $\chi^2/\text{NDF}: 3710.6/66$

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 15.092 $\pm$ 0.581 χ^2 /NDF: 242.4/15

Left Out: 7.011 $\pm$ 0.357 χ^2 /NDF: 437.1/16

Right Out: 15.491 $\pm$ 0.558 χ^2 /NDF: 239.3/18

Left In: 6.042 $\pm$ 0.379 χ^2 /NDF: 187.7/14

Left: 6.555 $\pm$ 0.260 χ^2 /NDF: 628.3/31

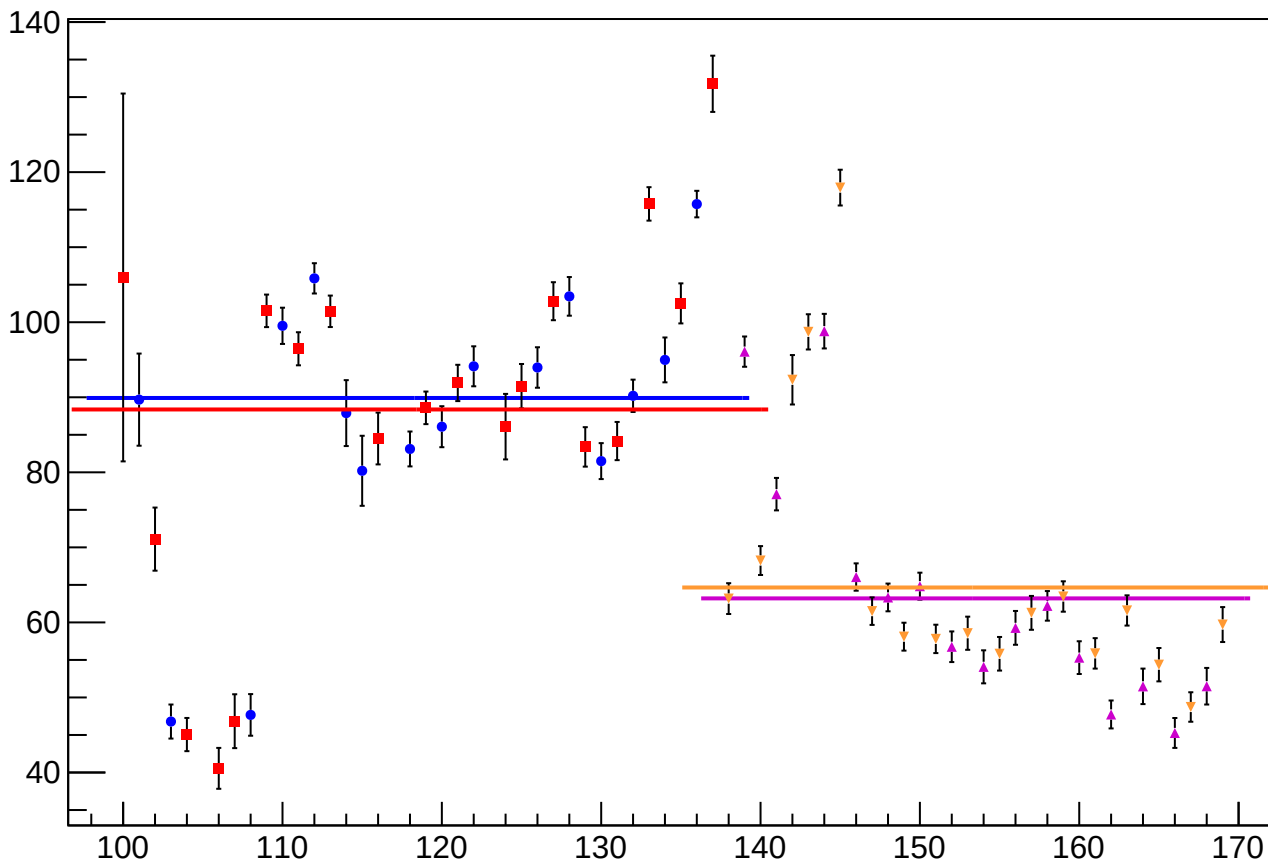
Right: 15.300 $\pm$ 0.402 χ^2 /NDF: 482.0/34

In: 8.741 $\pm$ 0.317 χ^2 /NDF: 600.5/30

Out: 9.474 $\pm$ 0.301 χ^2 /NDF: 840.1/35

All: 9.127 $\pm$ 0.218 χ^2 /NDF: 1443.5/66

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 89.907 ± 0.641 $\chi^2/\text{NDF}: 947.7/15$

Left Out: 64.653 ± 0.513 $\chi^2/\text{NDF}: 951.7/16$

Right Out: 88.375 ± 0.617 $\chi^2/\text{NDF}: 1288.9/18$

Left In: 63.200 ± 0.531 $\chi^2/\text{NDF}: 790.2/14$

Left: 63.952 ± 0.369 $\chi^2/\text{NDF}: 1745.7/31$

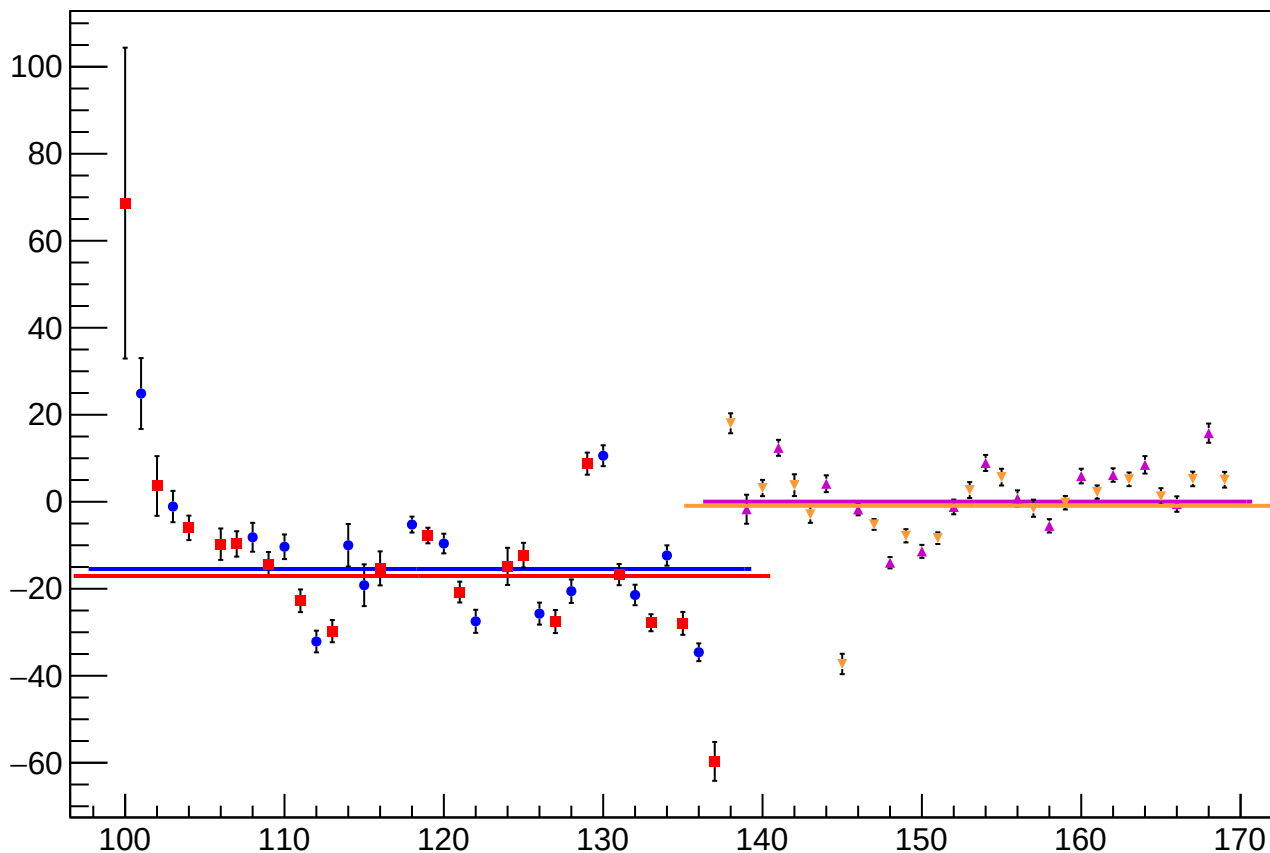
Right: 89.113 ± 0.445 $\chi^2/\text{NDF}: 2239.5/34$

In: 74.071 ± 0.409 $\chi^2/\text{NDF}: 2768.2/30$

Out: 74.337 ± 0.394 $\chi^2/\text{NDF}: 3114.1/35$

All: 74.208 ± 0.284 $\chi^2/\text{NDF}: 5882.6/66$

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -15.454 ± 0.665 $\chi^2/\text{NDF}: 386.5/15$

Left Out: -0.930 ± 0.418 $\chi^2/\text{NDF}: 442.8/16$

Right Out: -17.066 ± 0.644 $\chi^2/\text{NDF}: 361.0/18$

Left In: 0.028 ± 0.442 $\chi^2/\text{NDF}: 361.0/14$

Left: -0.478 ± 0.303 $\chi^2/\text{NDF}: 806.3/31$

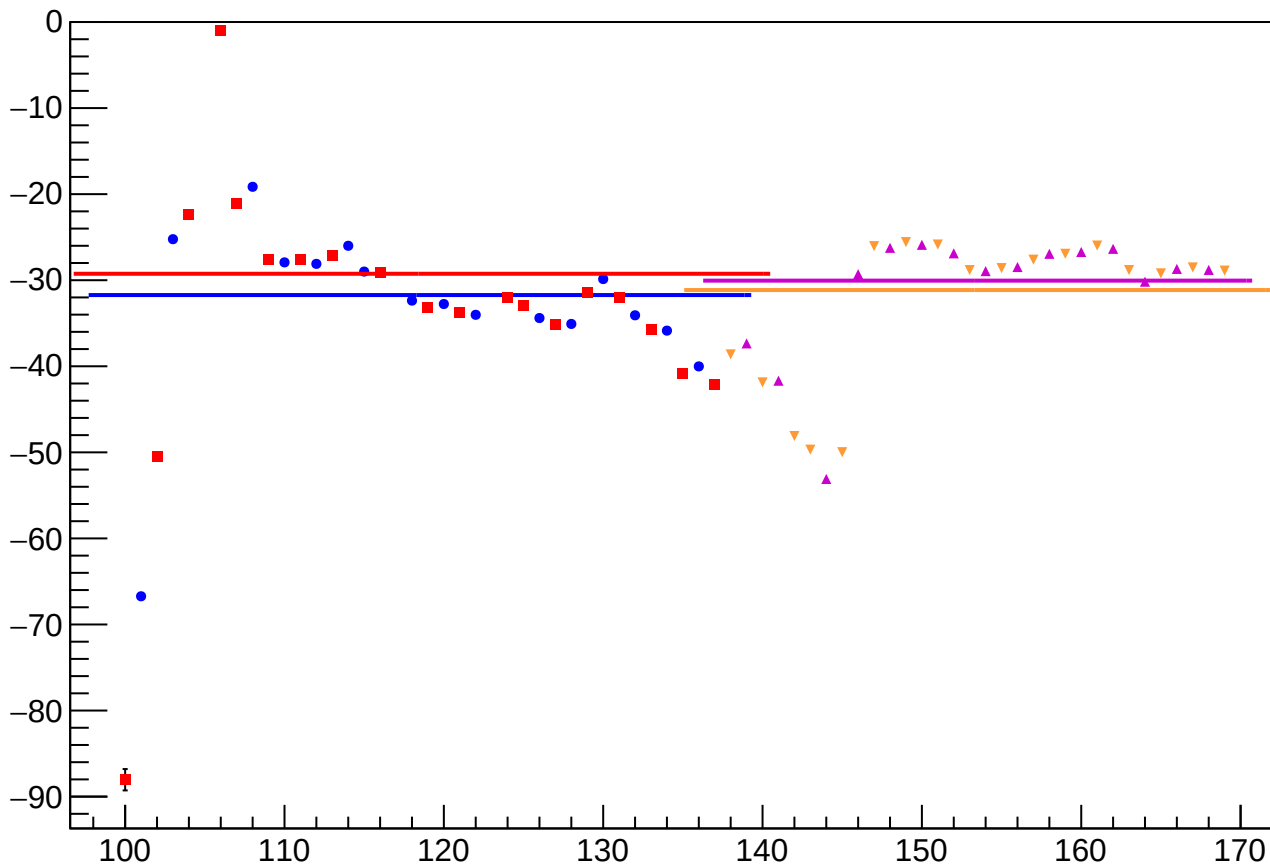
Right: -16.287 ± 0.463 $\chi^2/\text{NDF}: 750.5/34$

In: -4.709 ± 0.368 $\chi^2/\text{NDF}: 1123.1/30$

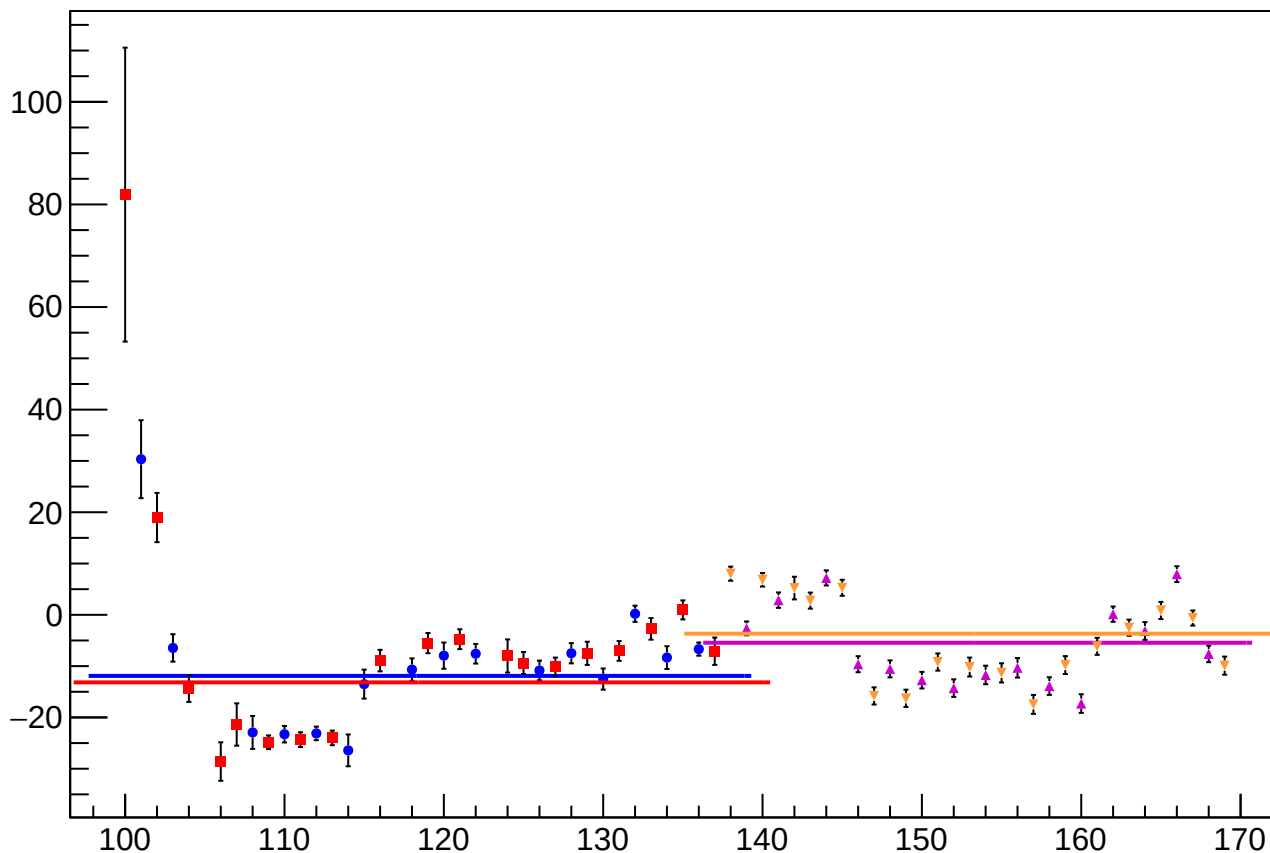
Out: -5.709 ± 0.350 $\chi^2/\text{NDF}: 1246.1/35$

All: -5.234 ± 0.254 $\chi^2/\text{NDF}: 2373.1/66$

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_usr_atr1_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -11.906 ± 0.497 χ^2/NDF : 282.1/15

Left Out: -3.672 ± 0.399 χ^2/NDF : 444.0/16

Right Out: -13.169 ± 0.480 χ^2/NDF : 421.5/18

Left In: -5.443 ± 0.417 χ^2/NDF : 349.6/14

Left: -4.518 ± 0.288 χ^2/NDF : 803.0/31

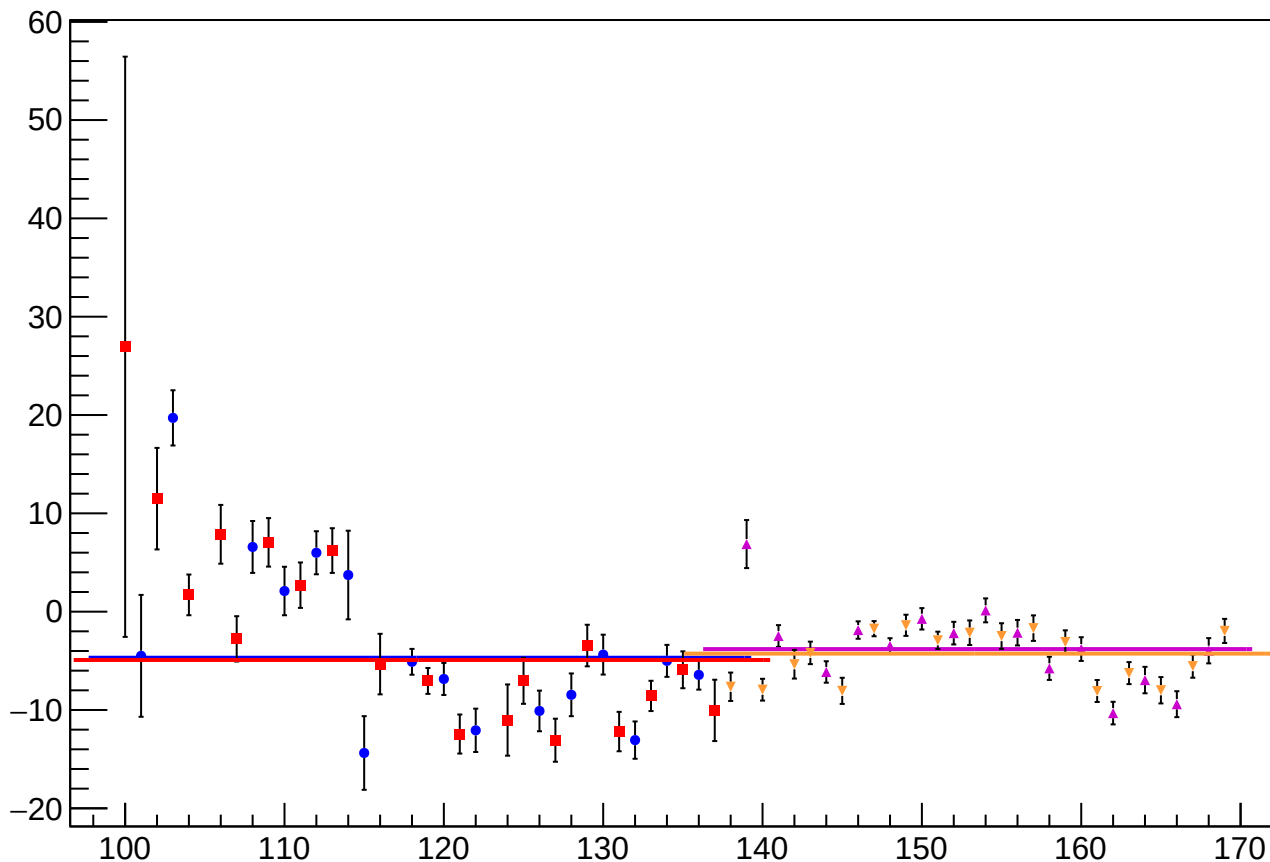
Right: -12.559 ± 0.345 χ^2/NDF : 706.9/34

In: -8.115 ± 0.319 χ^2/NDF : 731.0/30

Out: -7.547 ± 0.307 χ^2/NDF : 1097.1/35

All: -7.819 ± 0.221 χ^2/NDF : 1829.8/66

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -4.686 ± 0.517 χ^2/NDF : 179.0/15

Left Out: -4.268 ± 0.277 χ^2/NDF : 82.4/16

Right Out: -4.913 ± 0.513 χ^2/NDF : 155.9/18

Left In: -3.807 ± 0.295 χ^2/NDF : 110.6/14

Left: -4.052 ± 0.202 χ^2/NDF : 194.3/31

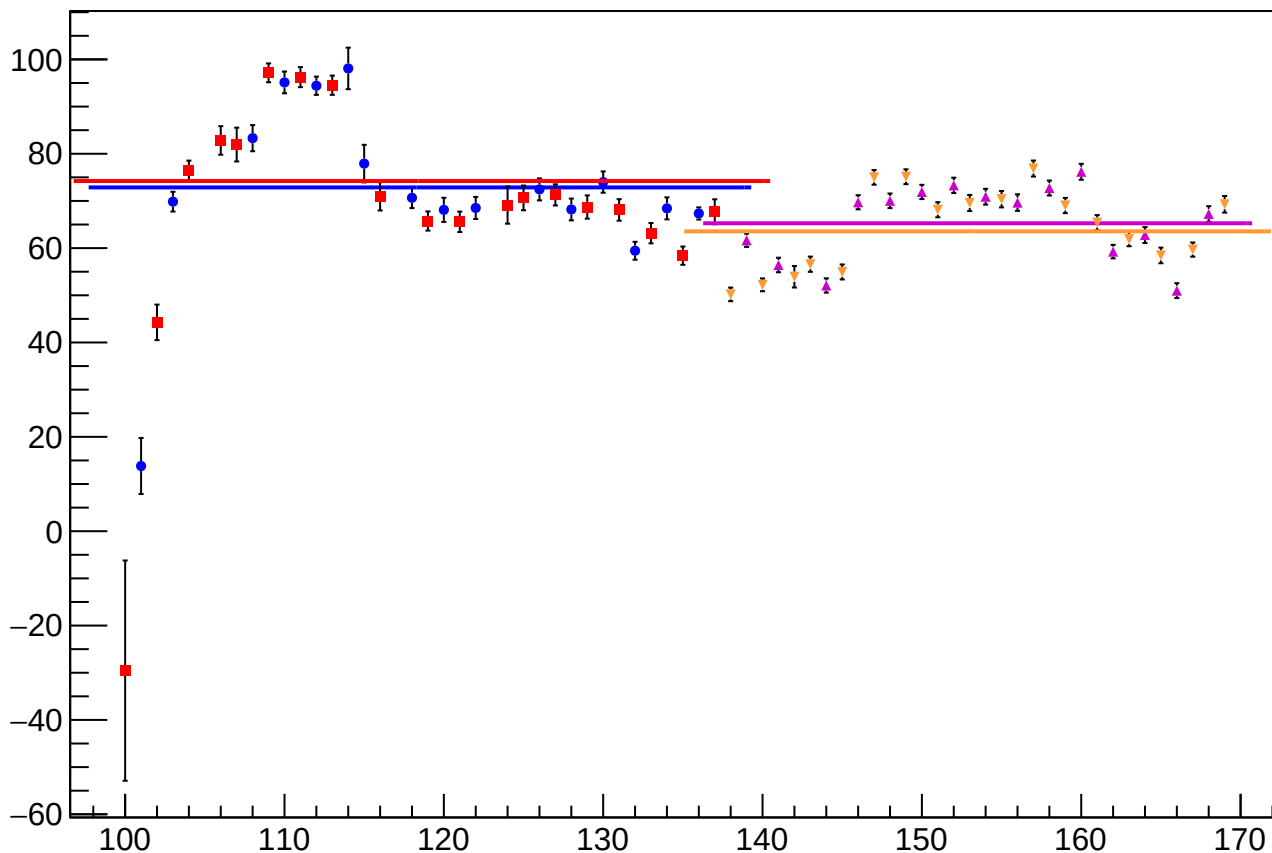
Right: -4.801 ± 0.364 χ^2/NDF : 335.0/34

In: -4.023 ± 0.256 χ^2/NDF : 291.8/30

Out: -4.414 ± 0.244 χ^2/NDF : 239.4/35

All: -4.228 ± 0.177 χ^2/NDF : 532.5/66

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 72.866 $\pm$ 0.565 χ^2 /NDF: 450.7/15

Left Out: 63.554 $\pm$ 0.390 χ^2 /NDF:467.0/16

Right Out: 74.217 $\pm$ 0.562 χ^2 /NDF: 586.2/18

Left In: 65.267 $\pm$ 0.406 χ^2 /NDF:361.6/14

Left: 64.377 $\pm$ 0.281 χ^2 /NDF: 837.8/31

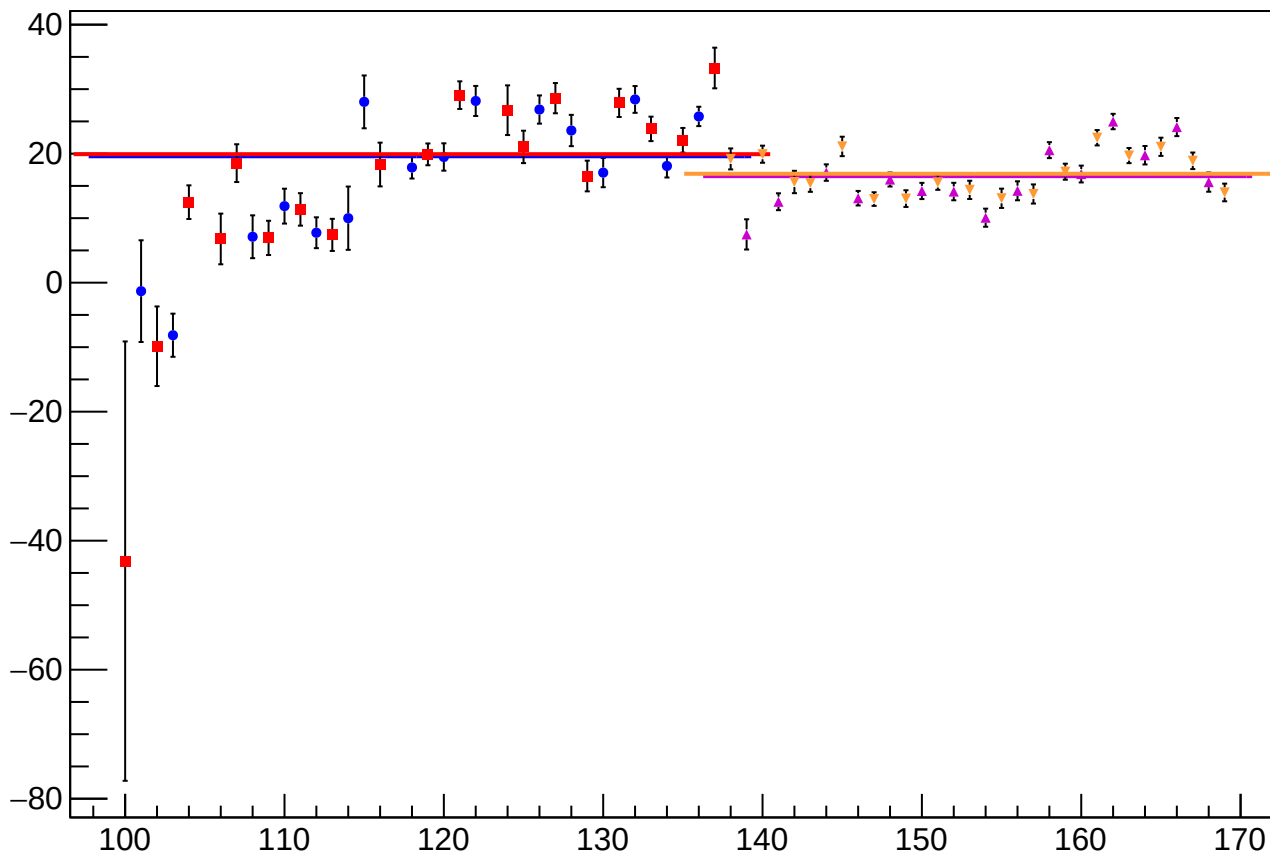
Right: 73.545 $\pm$ 0.399 χ^2 /NDF: 1039.8/34

In: 67.851 $\pm$ 0.330 χ^2 /NDF:931.5/30

Out: 67.022 $\pm$ 0.321 χ^2 /NDF:1295.9/35

All: 67.425 $\pm$ 0.230 χ^2 /NDF: 2230.6/66

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 19.598 $\pm$ 0.585 χ^2 /NDF: 196.0/15

Left Out: 16.882 $\pm$ 0.322 χ^2 /NDF: 98.5/16

Right Out: 19.919 $\pm$ 0.585 χ^2 /NDF: 181.3/18

Left In: 16.512 $\pm$ 0.342 χ^2 /NDF: 159.6/14

Left: 16.708 $\pm$ 0.234 χ^2 /NDF: 258.7/31

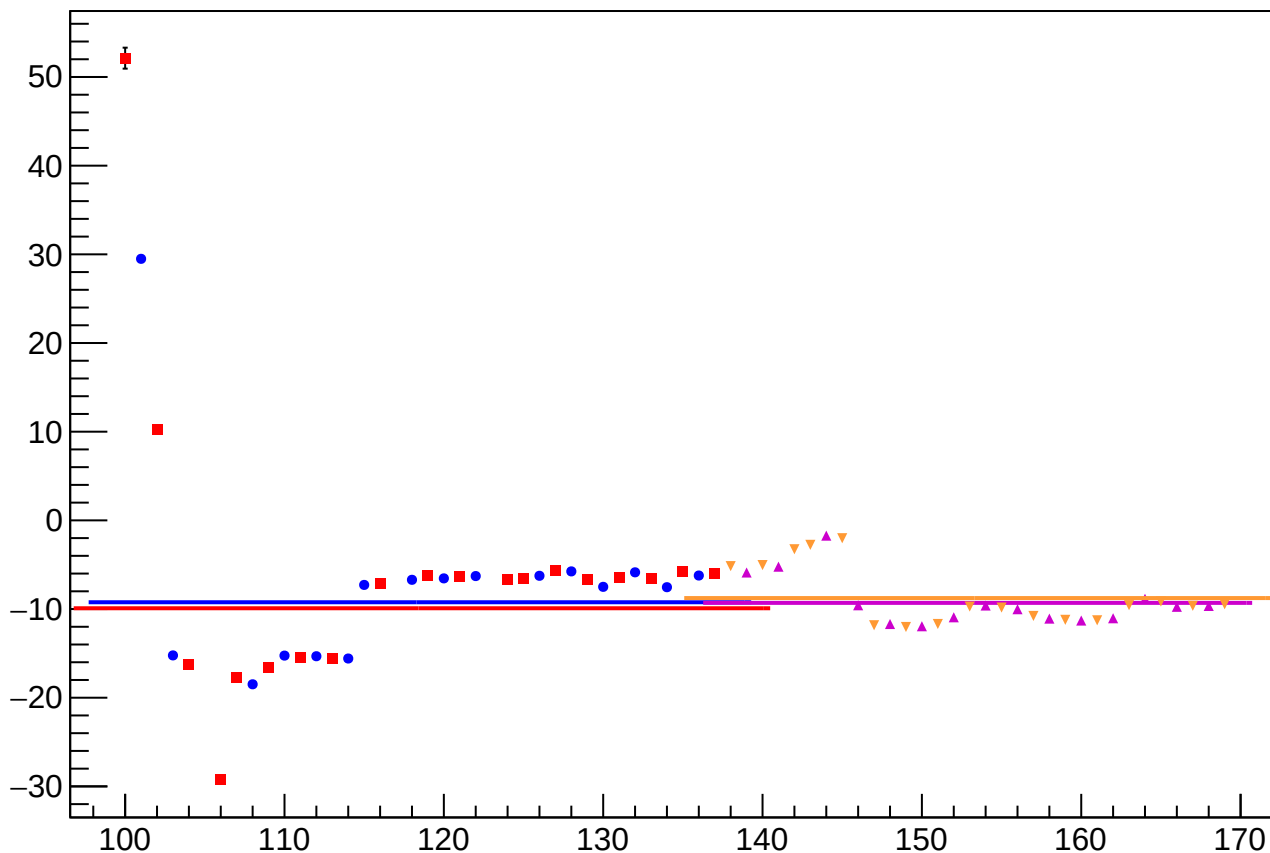
Right: 19.759 $\pm$ 0.414 χ^2 /NDF: 377.5/34

In: 17.297 $\pm$ 0.295 χ^2 /NDF: 376.3/30

Out: 17.587 $\pm$ 0.282 χ^2 /NDF: 300.5/35

All: 17.449 $\pm$ 0.204 χ^2 /NDF: 677.3/66

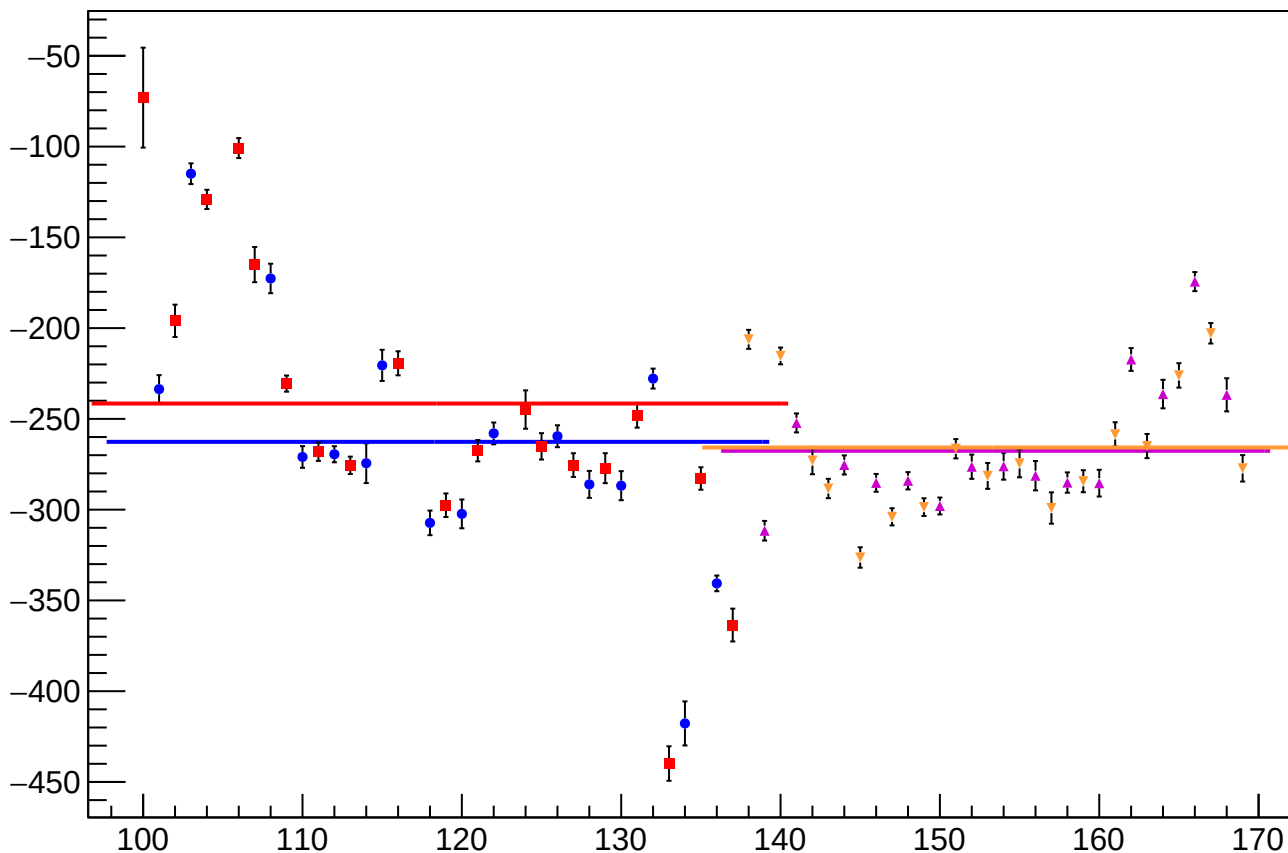
reg_asym_usr_atr1_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -9.235+/-0.033 χ^2/NDF : 31159.3/15
 Left Out: -8.763+/-0.015 χ^2/NDF : 44047.4/16
 Right Out: -9.913+/-0.034 χ^2/NDF : 53863.3/18
 Left In: -9.305+/-0.015 χ^2/NDF : 28971.2/14

Left: -9.025+/-0.011 χ^2/NDF : 73674.9/31
 Right: -9.558+/-0.024 χ^2/NDF : 85225.4/34
 In: -9.293+/-0.014 χ^2/NDF : 60134.3/30
 Out: -8.941+/-0.014 χ^2/NDF : 98853.2/35
 All: -9.113+/-0.010 χ^2/NDF : 159319.3/66

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -262.643 ± 1.614 $\chi^2/\text{NDF}: 1454.3/15$

Left Out: -265.752 ± 1.437 $\chi^2/\text{NDF}: 686.5/16$

Right Out: -241.548 ± 1.506 $\chi^2/\text{NDF}: 2138.6/18$

Left In: -267.596 ± 1.517 $\chi^2/\text{NDF}: 572.9/14$

Left: -266.624 ± 1.043 $\chi^2/\text{NDF}: 1260.2/31$

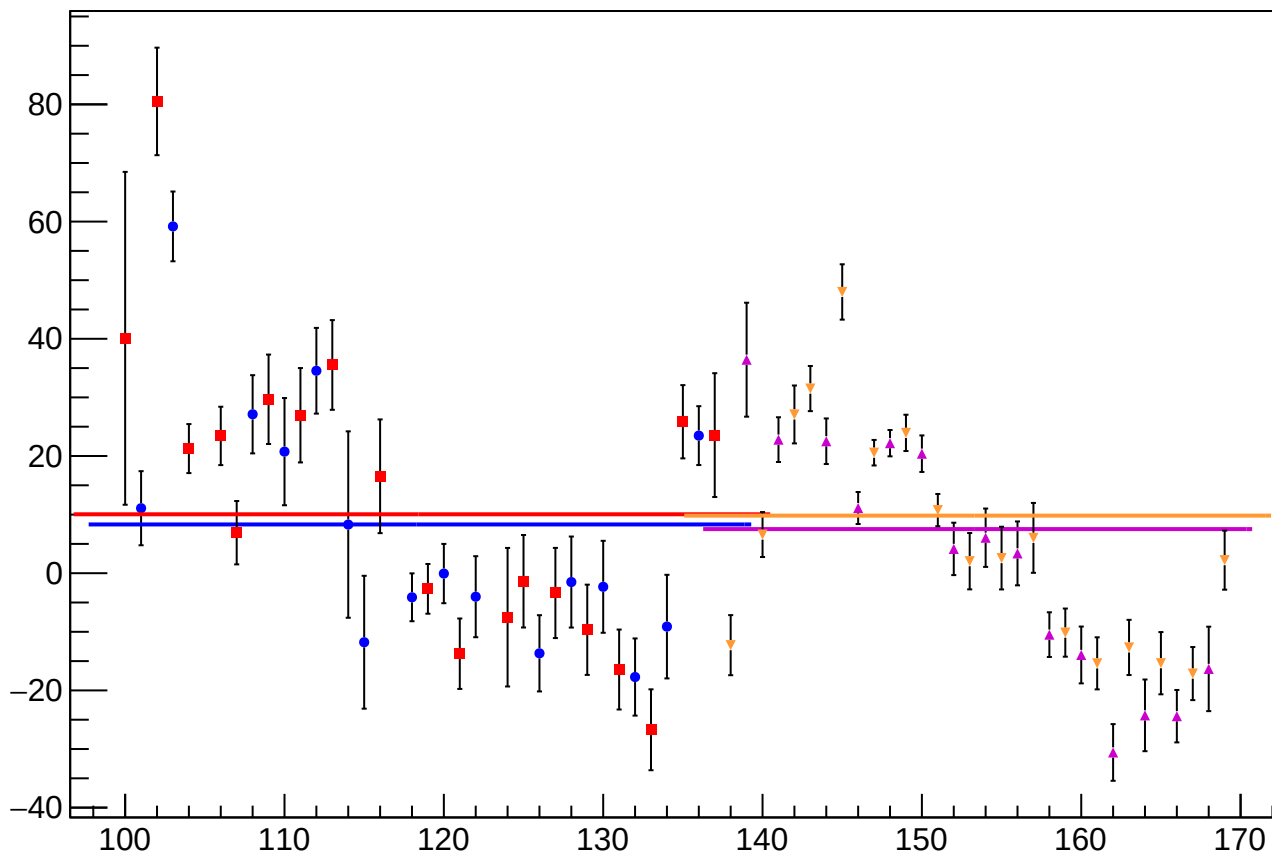
Right: -251.368 ± 1.101 $\chi^2/\text{NDF}: 3684.2/34$

In: -265.273 ± 1.105 $\chi^2/\text{NDF}: 2032.2/30$

Out: -254.218 ± 1.040 $\chi^2/\text{NDF}: 2960.3/35$

All: -259.408 ± 0.757 $\chi^2/\text{NDF}: 5045.6/66$

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 8.320 ± 1.644 χ^2/NDF : 157.6/15

Left Out: 9.826 ± 0.957 χ^2/NDF : 317.4/16

Right Out: 10.052 ± 1.539 χ^2/NDF : 187.4/18

Left In: 7.528 ± 1.024 χ^2/NDF : 295.3/14

Left: 8.754 ± 0.699 χ^2/NDF : 615.4/31

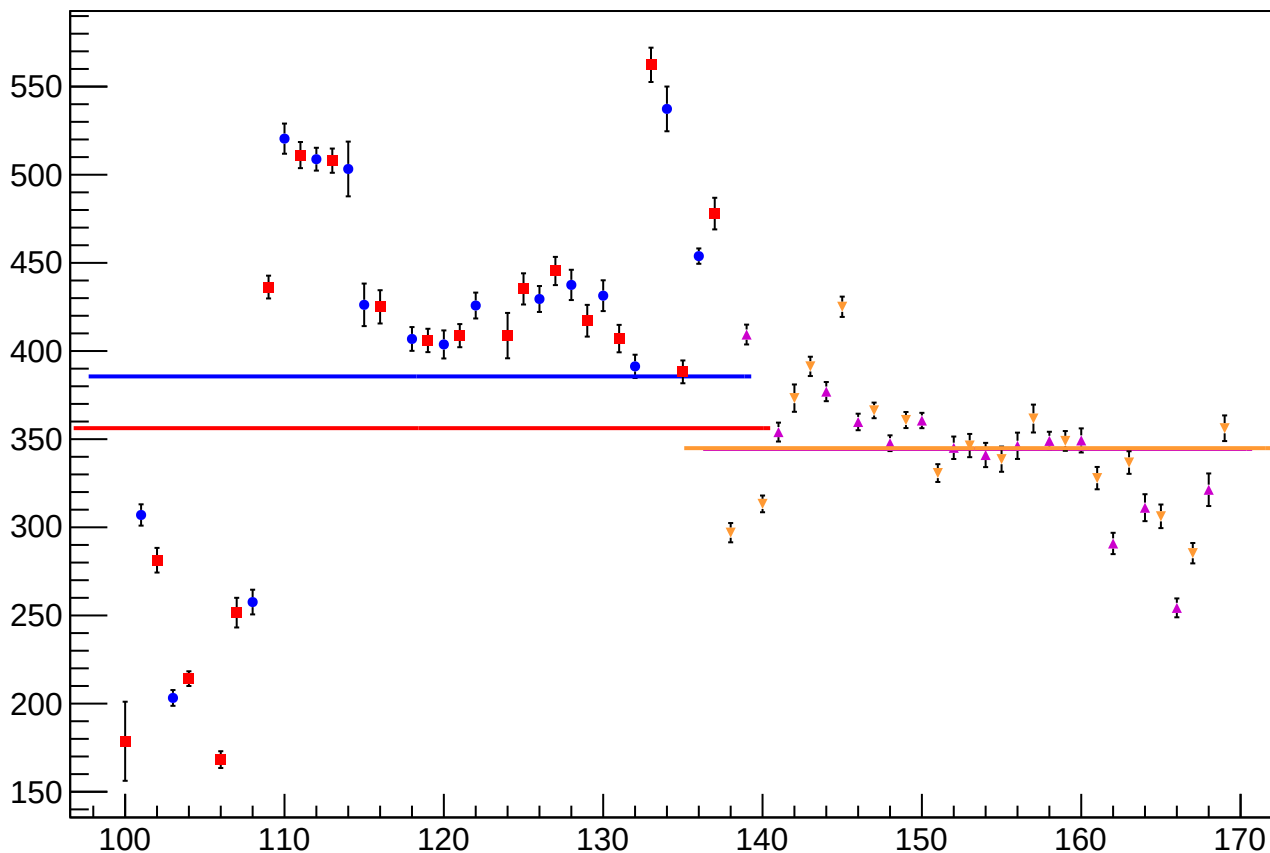
Right: 9.243 ± 1.123 χ^2/NDF : 345.7/34

In: 7.749 ± 0.869 χ^2/NDF : 453.1/30

Out: 9.889 ± 0.813 χ^2/NDF : 504.8/35

All: 8.891 ± 0.594 χ^2/NDF : 961.1/66

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 385.590 $\pm$ 1.742 χ^2 /NDF: 3373.1/15

Left Out: 344.899 $\pm$ 1.404 χ^2 /NDF:600.3/16

Right Out: 356.245 $\pm$ 1.647 χ^2 /NDF: 5270.3/18

Left In: 344.437 $\pm$ 1.470 χ^2 /NDF:586.0/14

Left: 344.679 $\pm$ 1.015 χ^2 /NDF: 1186.3/31

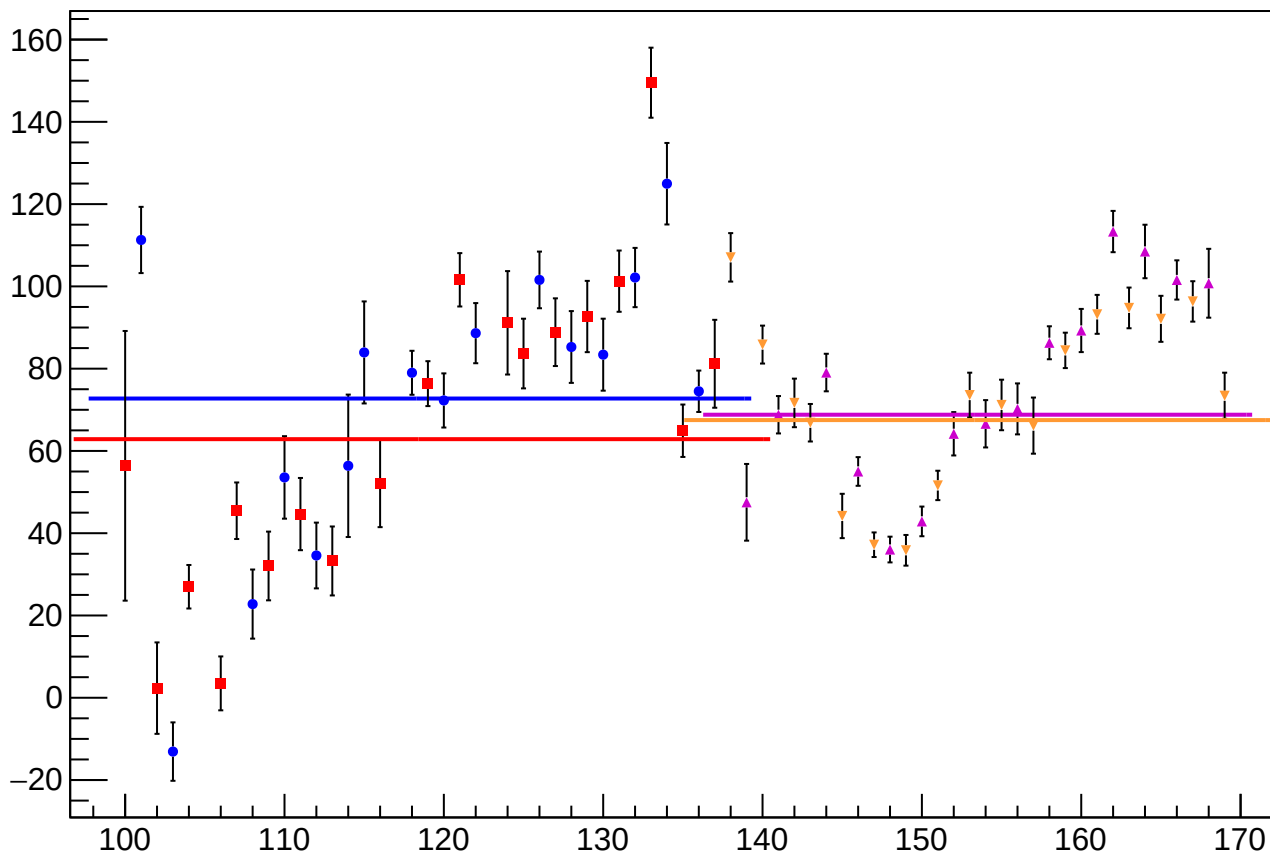
Right: 370.089 $\pm$ 1.197 χ^2 /NDF: 8793.2/34

In: 361.553 $\pm$ 1.124 χ^2 /NDF:4285.0/30

Out: 349.677 $\pm$ 1.068 χ^2 /NDF:5898.0/35

All: 355.316 $\pm$ 0.774 χ^2 /NDF: 10241.7/66

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 72.740 $\pm$ 1.897 χ^2 /NDF: 304.3/15

Left Out: 67.498 $\pm$ 1.135 χ^2 /NDF:406.7/16

Right Out: 62.863 $\pm$ 1.795 χ^2 /NDF: 403.6/18

Left In: 68.805 $\pm$ 1.211 χ^2 /NDF:400.4/14

Left: 68.109 $\pm$ 0.828 χ^2 /NDF: 807.7/31

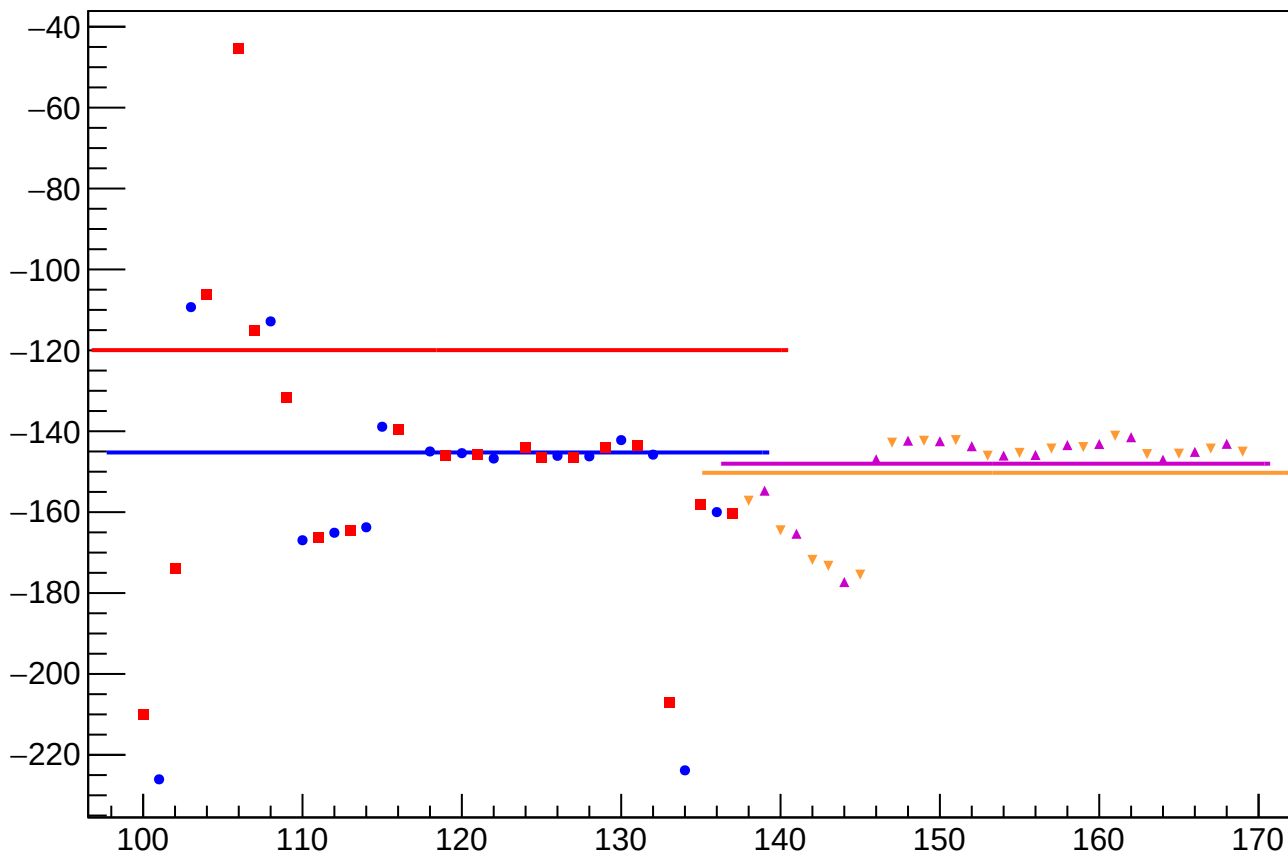
Right: 67.528 $\pm$ 1.304 χ^2 /NDF: 722.2/34

In: 69.944 $\pm$ 1.021 χ^2 /NDF:707.8/30

Out: 66.173 $\pm$ 0.960 χ^2 /NDF:815.1/35

All: 67.942 $\pm$ 0.699 χ^2 /NDF: 1530.1/66

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -145.246+/-0.098 χ^2/NDF : 132057.3/15

Left Out: -150.275+/-0.054 χ^2/NDF : 43177.1/16

Right Out: -119.947+/-0.089 χ^2/NDF : 270354.1/18

Left In: -148.022+/-0.056 χ^2/NDF : 26644.4/14

Left: -149.190+/-0.039 χ^2/NDF : 70651.8/31

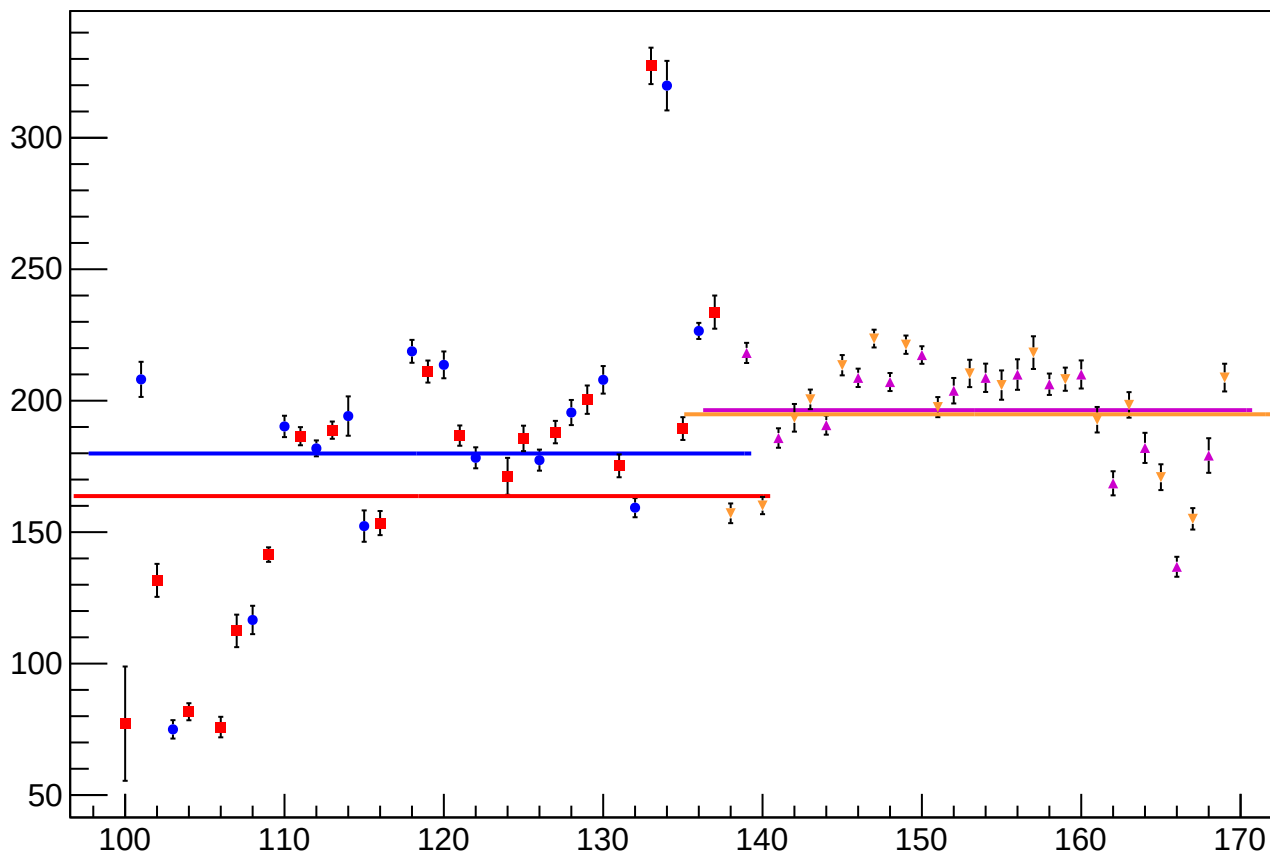
Right: -131.335+/-0.066 χ^2/NDF : 438808.7/34

In: -147.336+/-0.049 χ^2/NDF : 159301.6/30

Out: -142.049+/-0.046 χ^2/NDF : 398212.8/35

All: -144.553+/-0.034 χ^2/NDF : 563680.2/66

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 179.918 $\pm$ 1.089 χ^2 /NDF: 1732.7/15

Left Out: 194.831 $\pm$ 1.027 χ^2 /NDF:532.7/16

Right Out: 163.718 $\pm$ 1.001 χ^2 /NDF: 2416.8/18

Left In: 196.395 $\pm$ 1.087 χ^2 /NDF:426.0/14

Left: 195.569 $\pm$ 0.747 χ^2 /NDF: 959.8/31

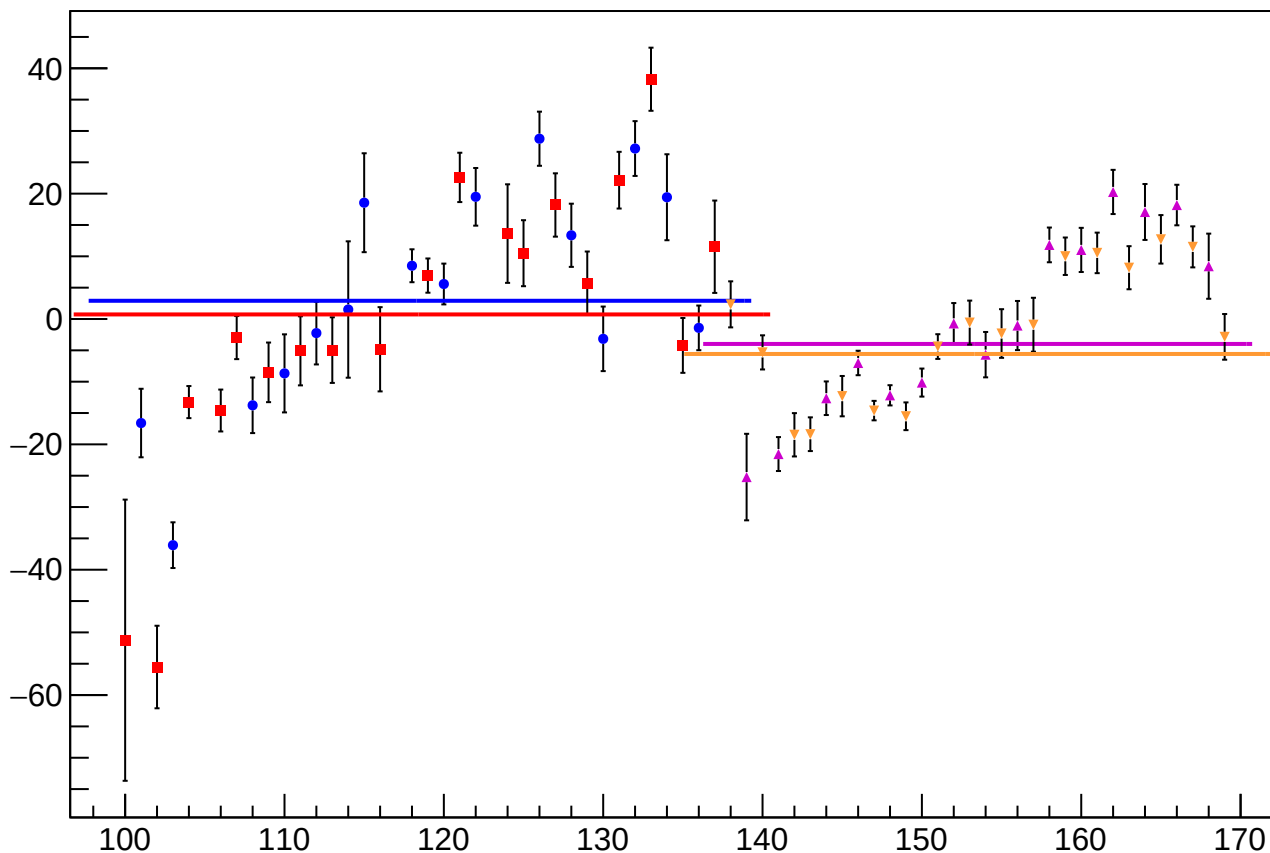
Right: 171.138 $\pm$ 0.737 χ^2 /NDF: 4269.5/34

In: 188.167 $\pm$ 0.769 χ^2 /NDF:2273.4/30

Out: 178.865 $\pm$ 0.717 χ^2 /NDF:3420.0/35

All: 183.189 $\pm$ 0.524 χ^2 /NDF: 5771.7/66

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.907 ± 1.105 $\chi^2/\text{NDF}: 247.5/15$

Left Out: -5.579 ± 0.685 $\chi^2/\text{NDF}: 222.2/16$

Right Out: 0.729 ± 1.012 $\chi^2/\text{NDF}: 273.6/18$

Left In: -3.980 ± 0.735 $\chi^2/\text{NDF}: 272.5/14$

Left: -4.836 ± 0.501 $\chi^2/\text{NDF}: 497.3/31$

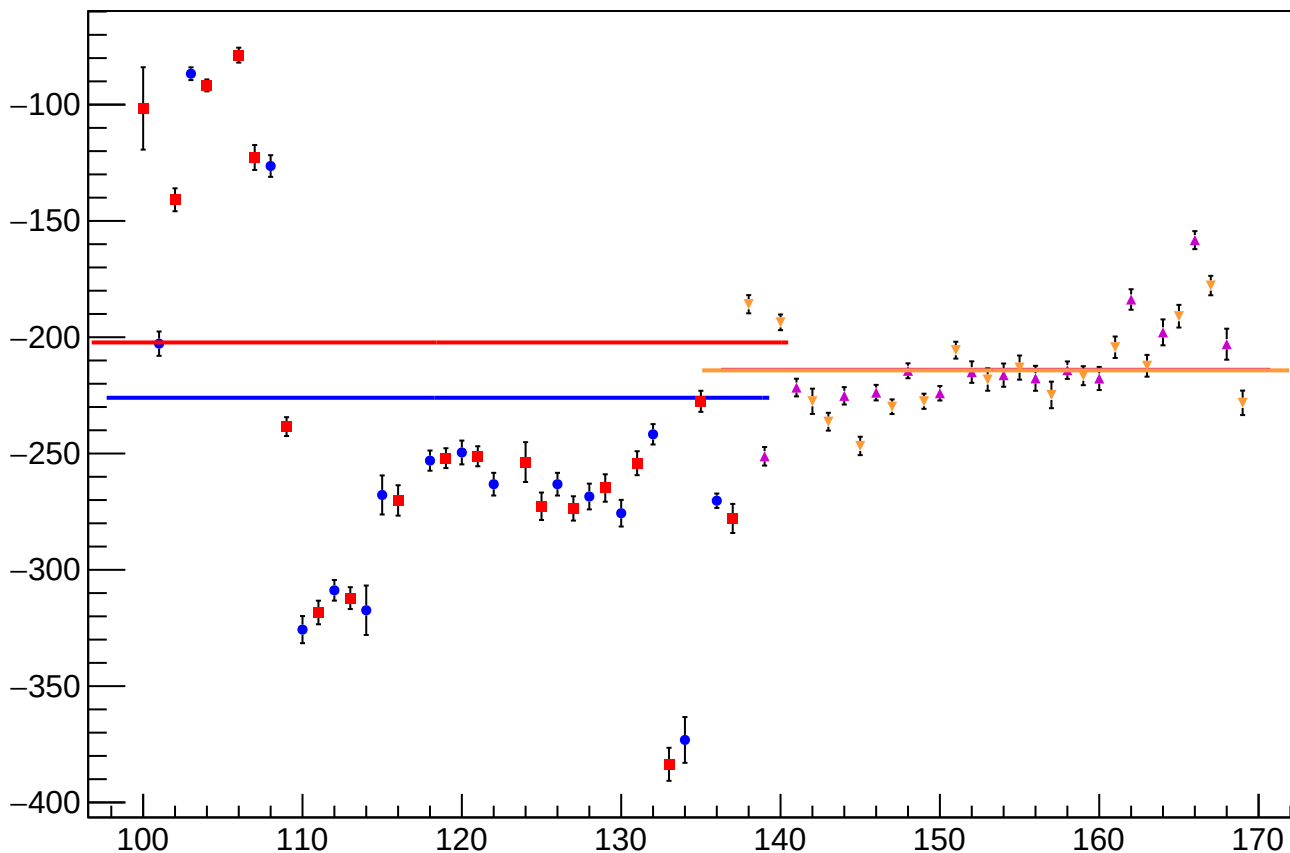
Right: 1.723 ± 0.746 $\chi^2/\text{NDF}: 523.2/34$

In: -1.868 ± 0.612 $\chi^2/\text{NDF}: 547.0/30$

Out: -3.599 ± 0.567 $\chi^2/\text{NDF}: 522.5/35$

All: -2.799 ± 0.416 $\chi^2/\text{NDF}: 1073.7/66$

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -226.028+/-1.175 χ^2/NDF : 4539.0/15

Left Out: -214.243+/-1.005 χ^2/NDF : 359.3/16

Right Out: -202.247+/-1.087 χ^2/NDF : 6690.8/18

Left In: -214.003+/-1.055 χ^2/NDF : 385.6/14

Left: -214.129+/-0.728 χ^2/NDF : 745.0/31

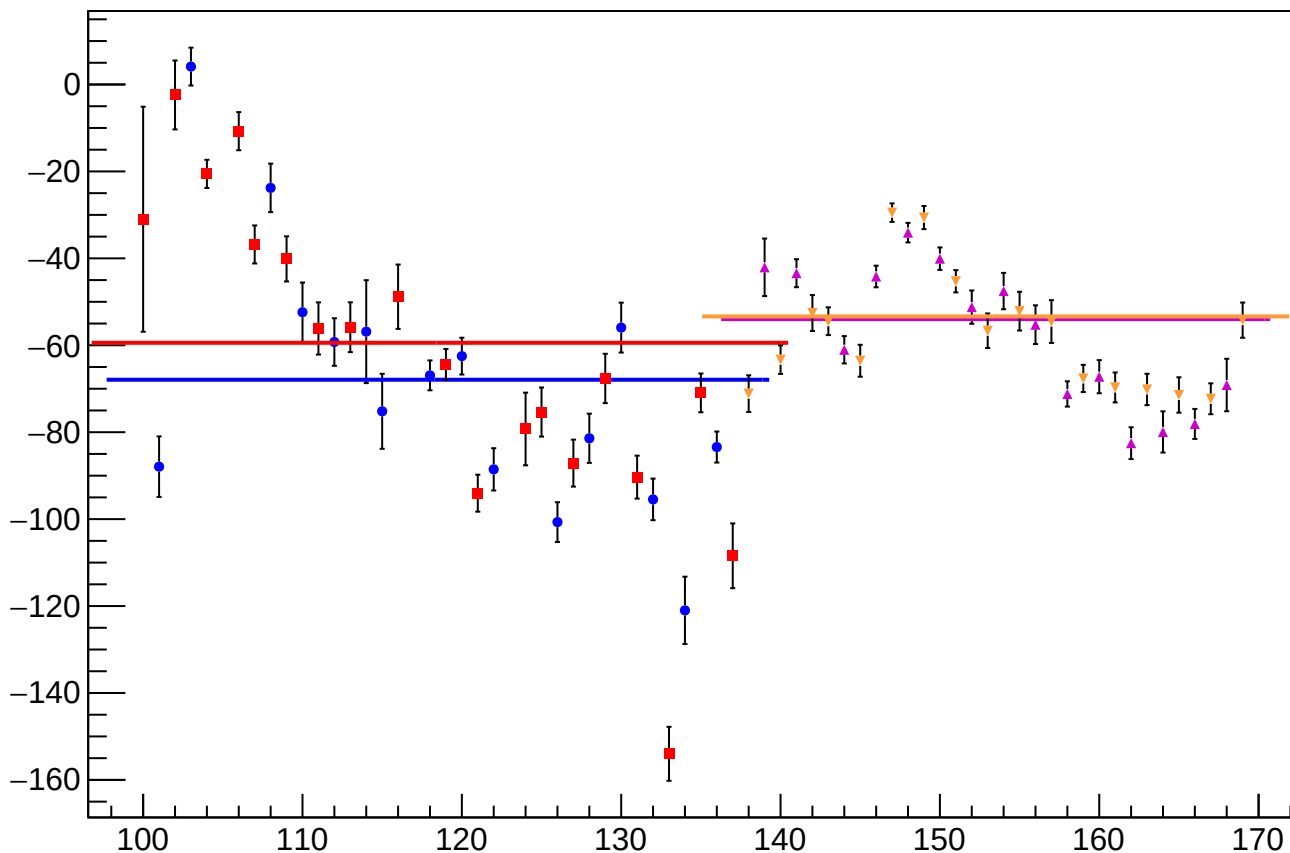
Right: -213.214+/-0.798 χ^2/NDF : 11450.5/34

In: -219.368+/-0.785 χ^2/NDF : 4982.7/30

Out: -208.715+/-0.738 χ^2/NDF : 7115.8/35

All: -213.714+/-0.538 χ^2/NDF : 12196.2/66

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -67.927 ± 1.278 χ^2/NDF : 534.0/15

Left Out: -53.366 ± 0.813 χ^2/NDF : 357.4/16

Right Out: -59.428 ± 1.184 χ^2/NDF : 794.9/18

Left In: -53.974 ± 0.870 χ^2/NDF : 337.9/14

Left: -53.650 ± 0.594 χ^2/NDF : 695.6/31

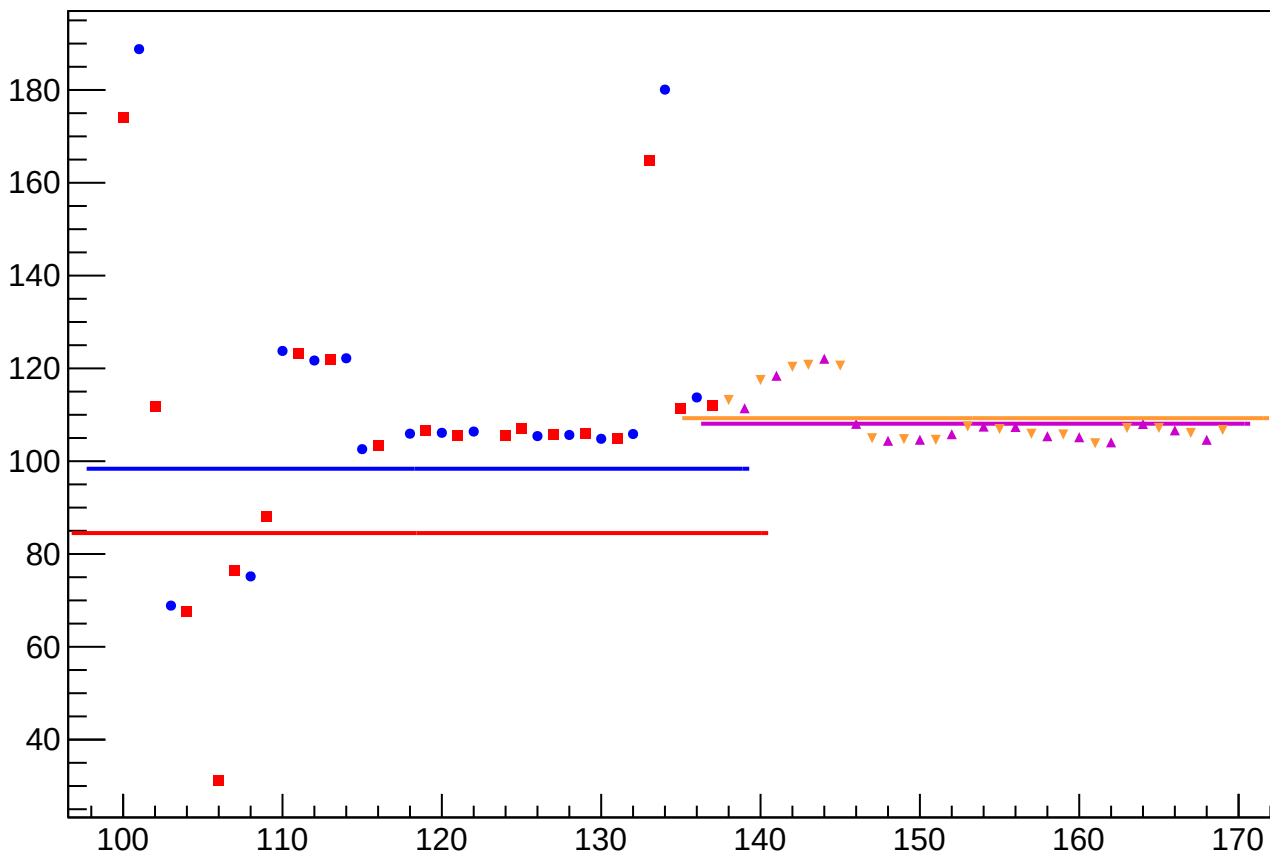
Right: -63.353 ± 0.869 χ^2/NDF : 1352.7/34

In: -58.389 ± 0.719 χ^2/NDF : 953.4/30

Out: -55.308 ± 0.670 χ^2/NDF : 1170.1/35

All: -56.741 ± 0.490 χ^2/NDF : 2133.3/66

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 98.377+/-0.066 χ^2/NDF : 228419.7/15

Left Out: 109.274+/-0.039 χ^2/NDF : 22848.5/16

Right Out: 84.512+/-0.061 χ^2/NDF : 268911.0/18

Left In: 108.078+/-0.040 χ^2/NDF : 15319.9/14

Left: 108.699+/-0.028 χ^2/NDF : 38622.4/31

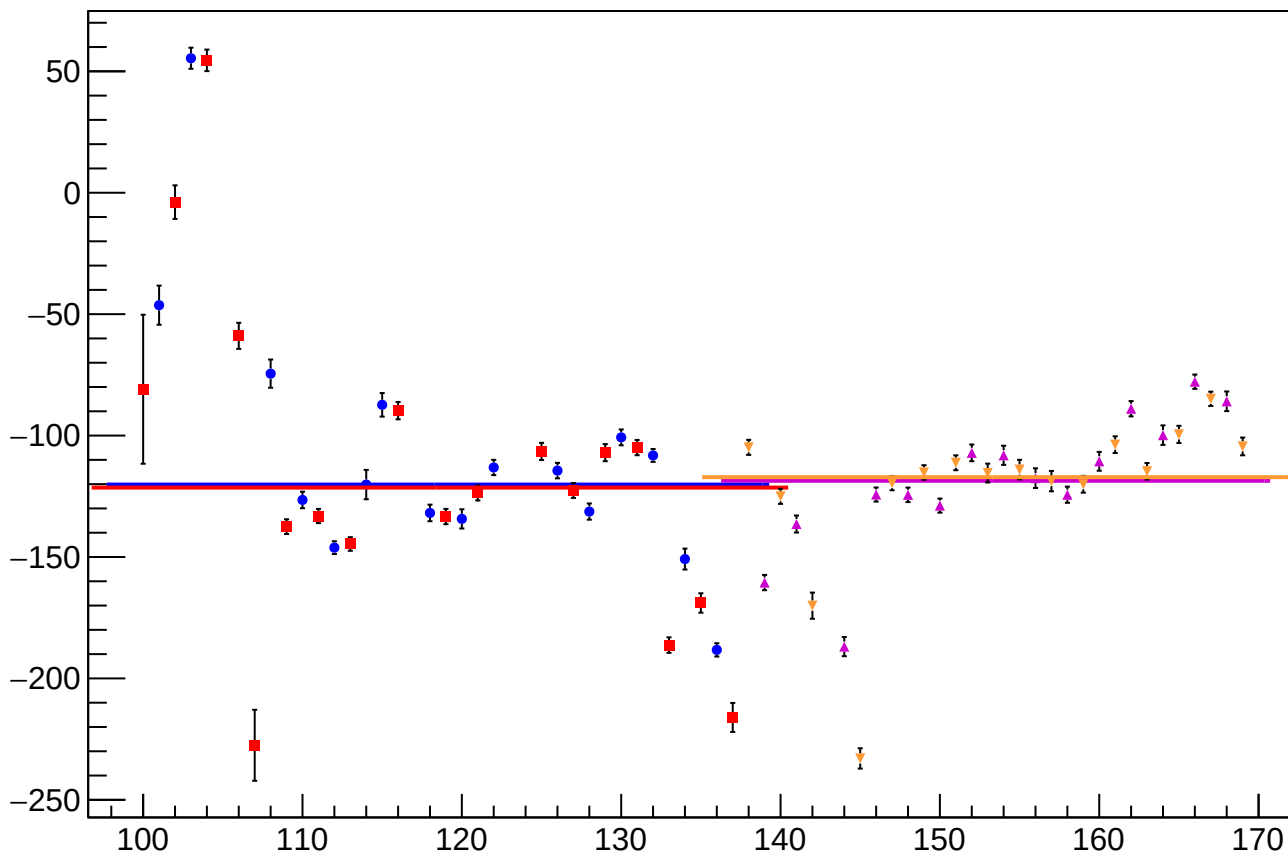
Right: 90.854+/-0.045 χ^2/NDF : 521250.8/34

In: 105.431+/-0.034 χ^2/NDF : 259430.5/30

Out: 102.048+/-0.033 χ^2/NDF : 409882.2/35

All: 103.652+/-0.024 χ^2/NDF : 674372.9/66

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -120.177 ± 0.891 χ^2/NDF : 2691.2/15

Left Out: -117.126 ± 0.863 χ^2/NDF : 1062.9/15

Right Out: -121.418 ± 0.875 χ^2/NDF : 3126.3/17

Left In: -118.619 ± 0.877 χ^2/NDF : 914.9/14

Left: -117.861 ± 0.615 χ^2/NDF : 1979.2/30

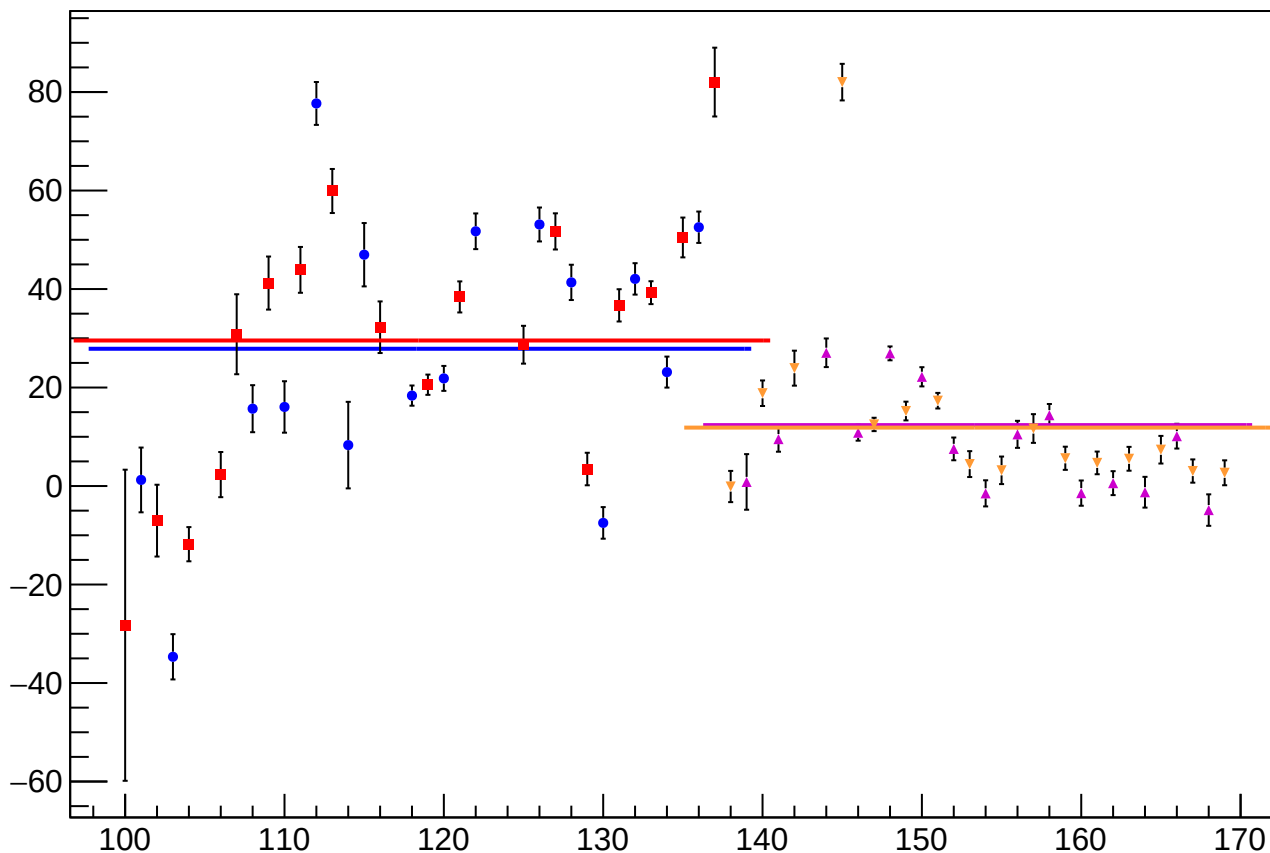
Right: -120.808 ± 0.624 χ^2/NDF : 5818.5/33

In: -119.386 ± 0.625 χ^2/NDF : 3607.6/30

Out: -119.241 ± 0.614 χ^2/NDF : 4201.4/33

All: -119.312 ± 0.438 χ^2/NDF : 7809.1/64

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 27.872 ± 0.888 χ^2/NDF : 699.6/15

Left Out: 11.864 ± 0.576 χ^2/NDF : 475.8/15

Right Out: 29.553 ± 0.890 χ^2/NDF : 497.5/17

Left In: 12.371 ± 0.599 χ^2/NDF : 298.4/14

Left: 12.107 ± 0.415 χ^2/NDF : 774.5/30

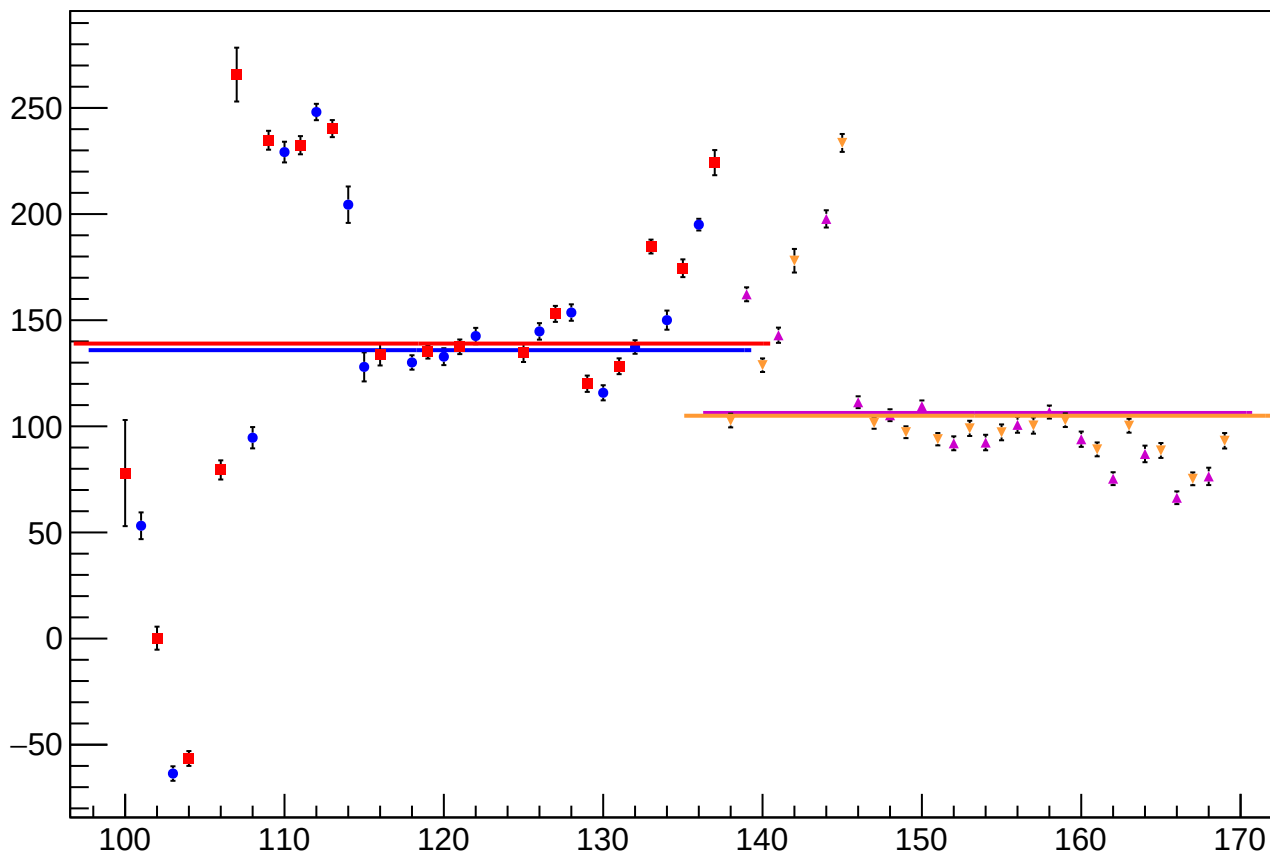
Right: 28.711 ± 0.629 χ^2/NDF : 1198.9/33

In: 17.219 ± 0.497 χ^2/NDF : 1207.4/30

Out: 17.092 ± 0.484 χ^2/NDF : 1251.7/33

All: 17.154 ± 0.347 χ^2/NDF : 2459.1/64

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 135.883 $\pm$ 0.999 χ^2 /NDF: 5463.6/15

Left Out: 104.990 $\pm$ 0.837 χ^2 /NDF:1343.0/15

Right Out: 138.985 $\pm$ 0.998 χ^2 /NDF: 6156.4/17

Left In: 106.291 $\pm$ 0.848 χ^2 /NDF:1310.2/14

Left: 105.632 $\pm$ 0.596 χ^2 /NDF: 2654.4/30

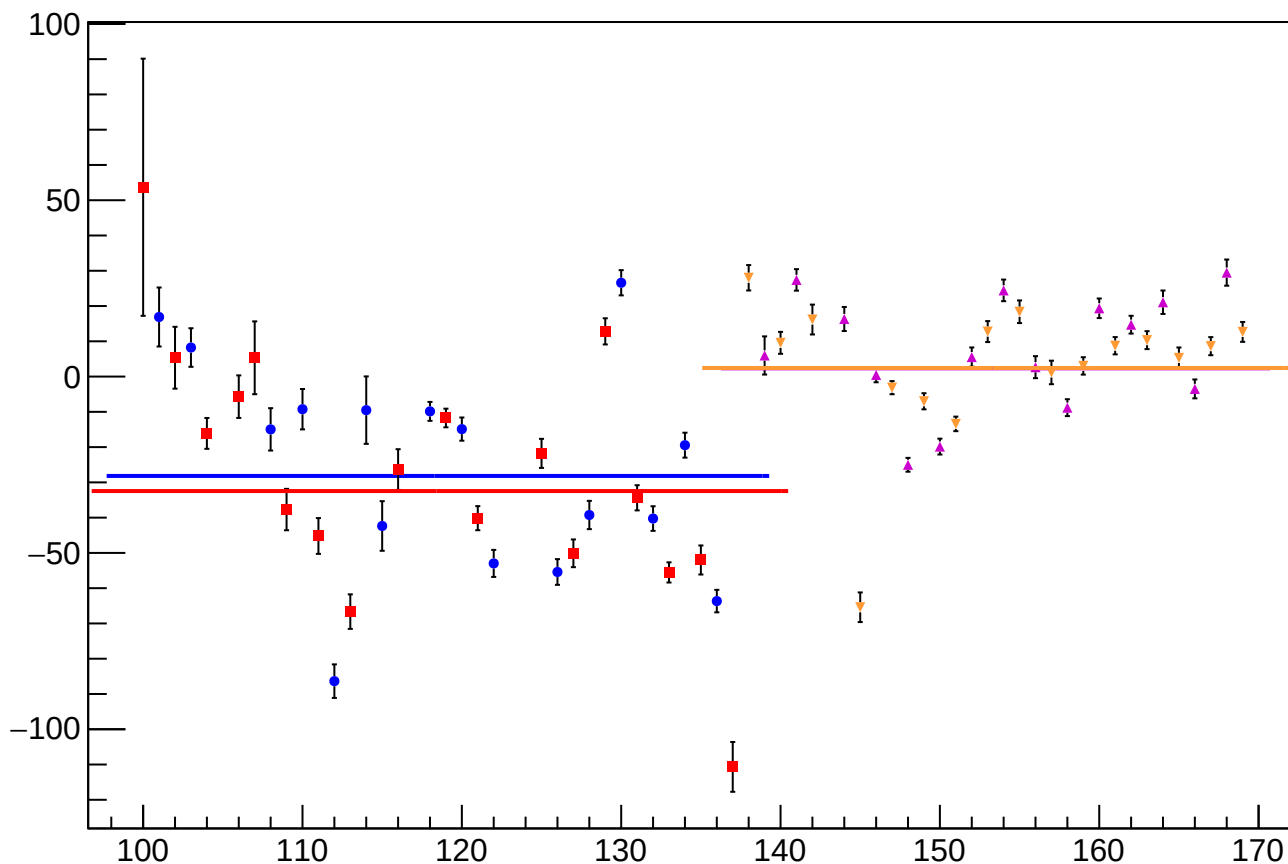
Right: 137.434 $\pm$ 0.706 χ^2 /NDF: 11624.9/33

In: 118.692 $\pm$ 0.646 χ^2 /NDF:7284.1/30

Out: 119.025 $\pm$ 0.641 χ^2 /NDF:8180.3/33

All: 118.860 $\pm$ 0.455 χ^2 /NDF: 15464.5/64

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -28.175 ± 1.022 $\chi^2/\text{NDF}: 791.2/15$

Left Out: 2.437 ± 0.676 $\chi^2/\text{NDF}: 485.2/15$

Right Out: -32.459 ± 1.027 $\chi^2/\text{NDF}: 580.8/17$

Left In: 2.327 ± 0.702 $\chi^2/\text{NDF}: 604.6/14$

Left: 2.384 ± 0.487 $\chi^2/\text{NDF}: 1089.8/30$

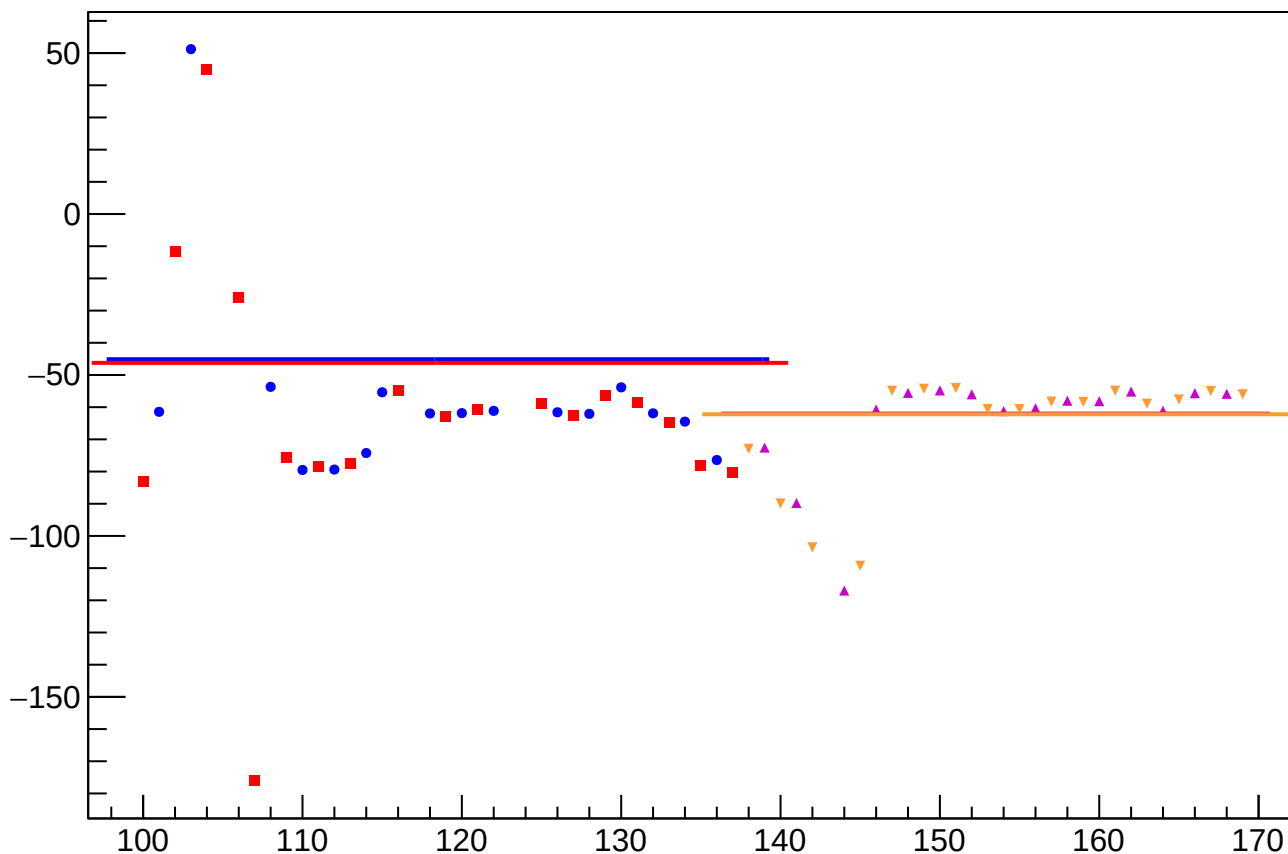
Right: -30.307 ± 0.725 $\chi^2/\text{NDF}: 1380.8/33$

In: -7.452 ± 0.579 $\chi^2/\text{NDF}: 2000.7/30$

Out: -8.111 ± 0.565 $\chi^2/\text{NDF}: 1871.0/33$

All: -7.790 ± 0.404 $\chi^2/\text{NDF}: 3872.4/64$

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -45.106 ± 0.060 $\chi^2/\text{NDF}: 575184.2/15$

Left Out: -62.210 ± 0.032 $\chi^2/\text{NDF}: 186000.7/15$

Right Out: -46.229 ± 0.063 $\chi^2/\text{NDF}: 493616.3/17$

Left In: -61.999 ± 0.032 $\chi^2/\text{NDF}: 155635.6/14$

Left: -62.106 ± 0.022 $\chi^2/\text{NDF}: 341658.3/30$

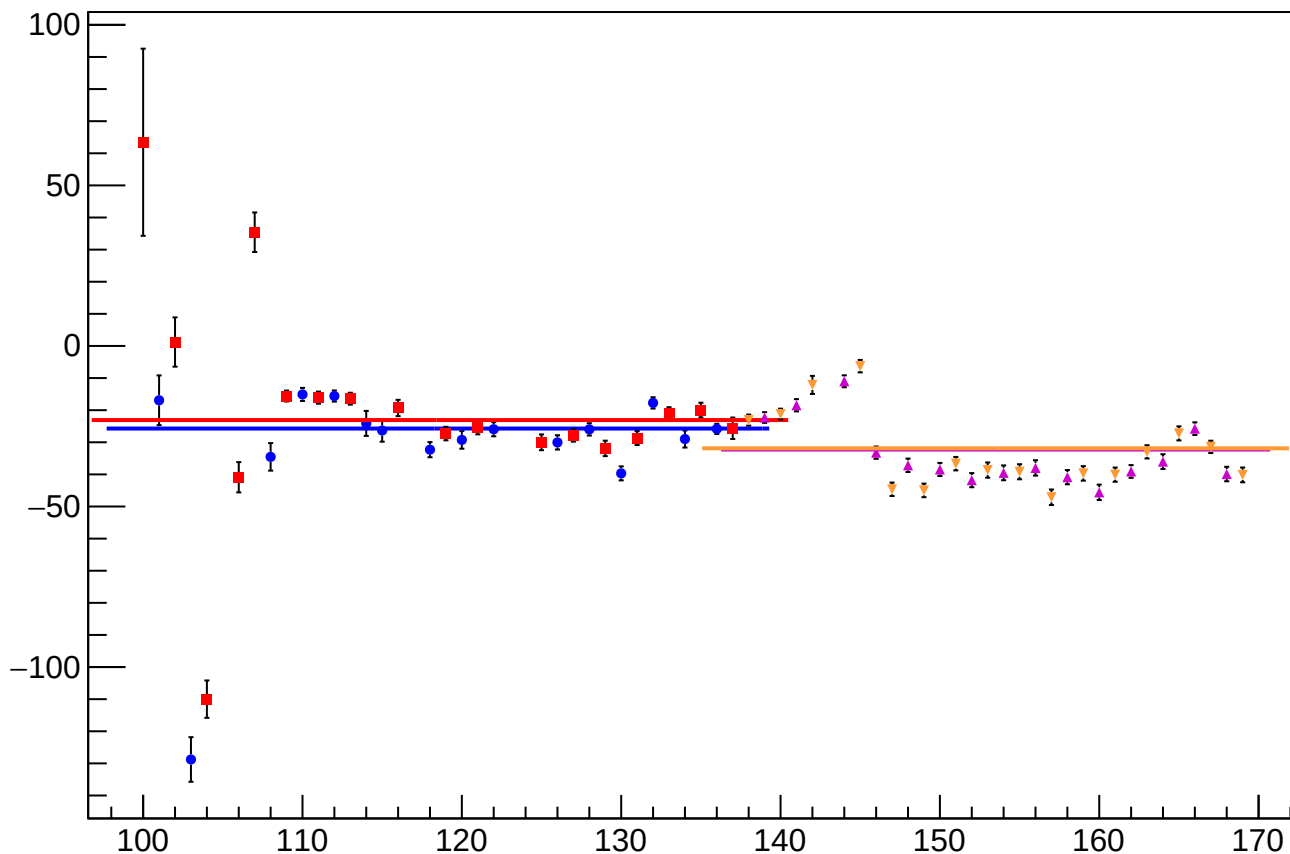
Right: -45.645 ± 0.043 $\chi^2/\text{NDF}: 1068967.9/33$

In: -58.280 ± 0.028 $\chi^2/\text{NDF}: 792366.0/30$

Out: -58.968 ± 0.028 $\chi^2/\text{NDF}: 731592.9/33$

All: -58.625 ± 0.020 $\chi^2/\text{NDF}: 1524256.8/64$

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -25.721 ± 0.590 χ^2/NDF : 363.0/15

Left Out: -31.881 ± 0.527 χ^2/NDF : 471.0/15

Right Out: -23.079 ± 0.582 χ^2/NDF : 437.1/17

Left In: -32.264 ± 0.534 χ^2/NDF : 350.8/14

Left: -32.070 ± 0.375 χ^2/NDF : 822.1/30

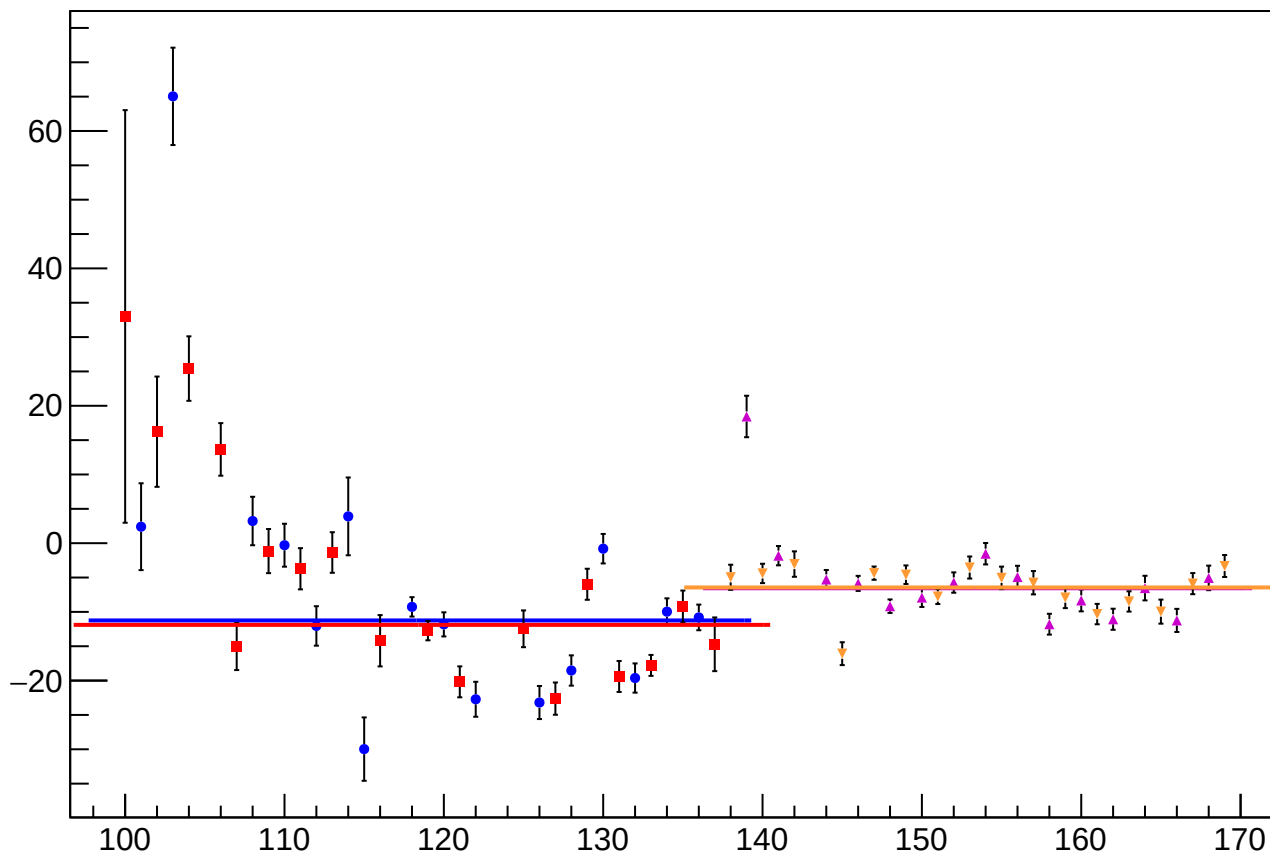
Right: -24.381 ± 0.414 χ^2/NDF : 810.3/33

In: -29.318 ± 0.396 χ^2/NDF : 781.4/30

Out: -27.910 ± 0.391 χ^2/NDF : 1033.7/33

All: -28.605 ± 0.278 χ^2/NDF : 1821.5/64

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -11.246 ± 0.600 χ^2/NDF : 271.1/15

Left Out: -6.444 ± 0.365 χ^2/NDF : 69.4/15

Right Out: -11.890 ± 0.607 χ^2/NDF : 224.5/17

Left In: -6.561 ± 0.377 χ^2/NDF : 131.3/14

Left: -6.501 ± 0.262 χ^2/NDF : 200.8/30

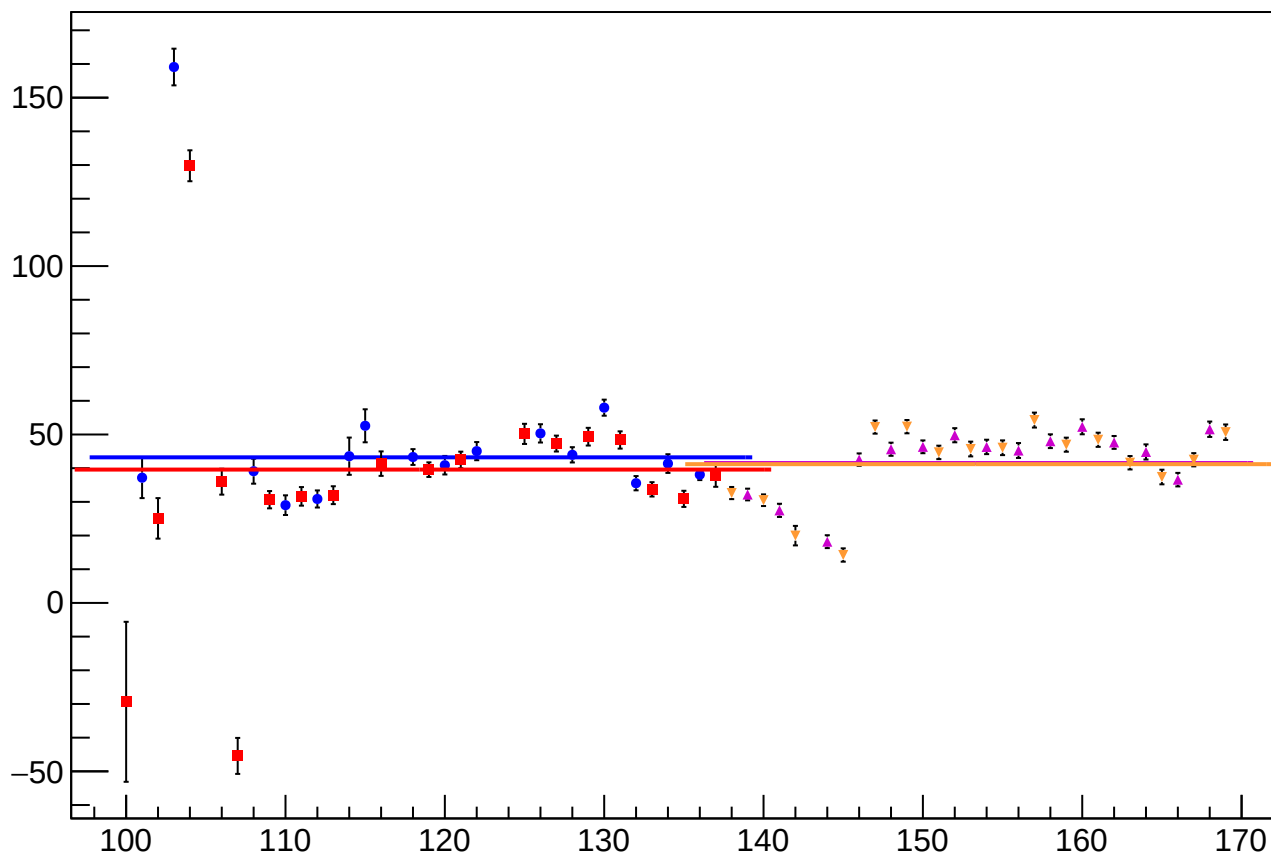
Right: -11.564 ± 0.427 χ^2/NDF : 496.1/33

In: -7.889 ± 0.319 χ^2/NDF : 446.1/30

Out: -7.891 ± 0.313 χ^2/NDF : 353.0/33

All: -7.890 ± 0.224 χ^2/NDF : 799.1/64

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 43.222 $\pm$ 0.678 χ^2 /NDF: 576.0/15

Left Out: 41.194 $\pm$ 0.515 χ^2 /NDF: 450.6/15

Right Out: 39.587 $\pm$ 0.685 χ^2 /NDF: 754.0/17

Left In: 41.528 $\pm$ 0.520 χ^2 /NDF: 334.7/14

Left: 41.360 $\pm$ 0.366 χ^2 /NDF: 785.5/30

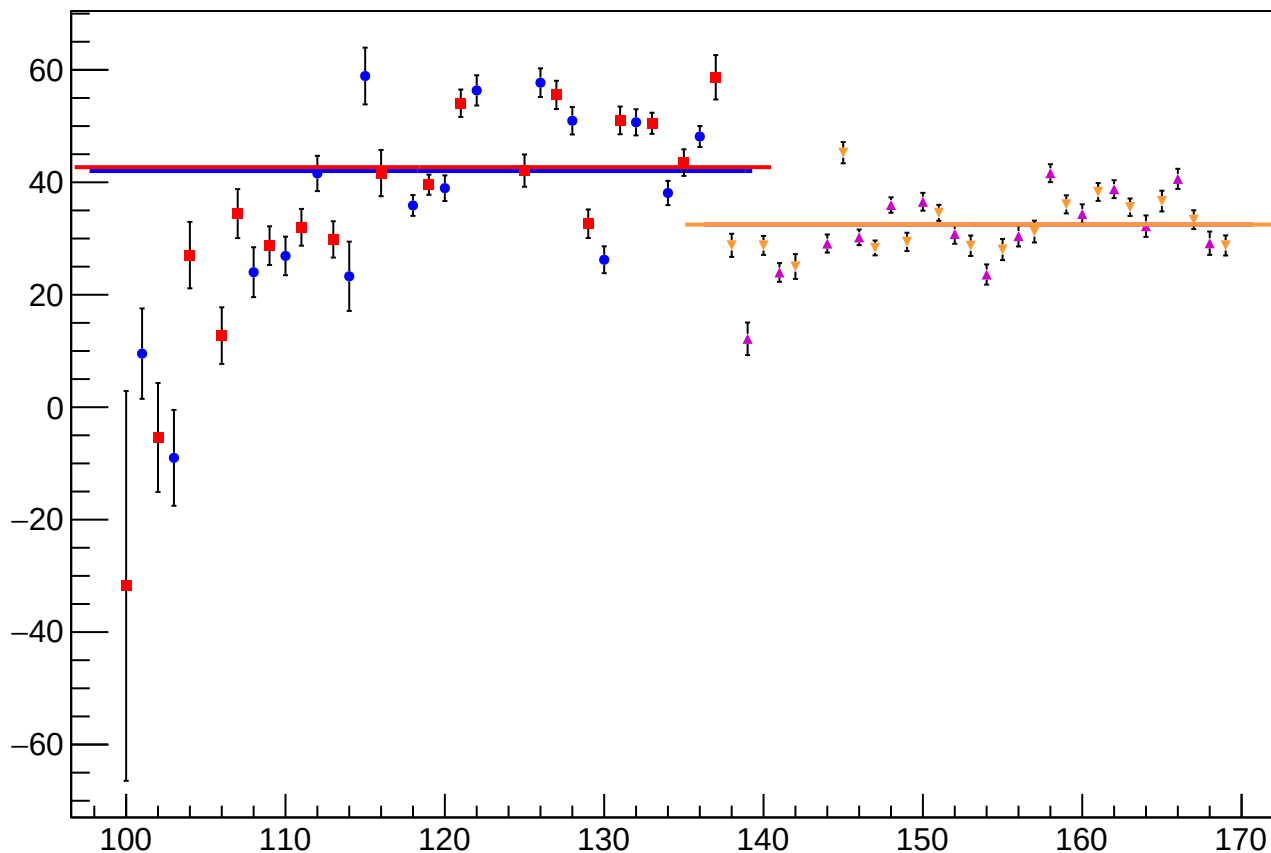
Right: 41.422 $\pm$ 0.482 χ^2 /NDF: 1344.2/33

In: 42.155 $\pm$ 0.413 χ^2 /NDF: 914.6/30

Out: 40.613 $\pm$ 0.412 χ^2 /NDF: 1208.1/33

All: 41.382 $\pm$ 0.291 χ^2 /NDF: 2129.7/64

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 42.006 ± 0.684 χ^2/NDF : 272.7/15

Left Out: 32.488 ± 0.425 χ^2/NDF : 123.7/15

Right Out: 42.696 ± 0.695 χ^2/NDF : 230.3/17

Left In: 32.487 ± 0.439 χ^2/NDF : 195.2/14

Left: 32.488 ± 0.305 χ^2/NDF : 318.8/30

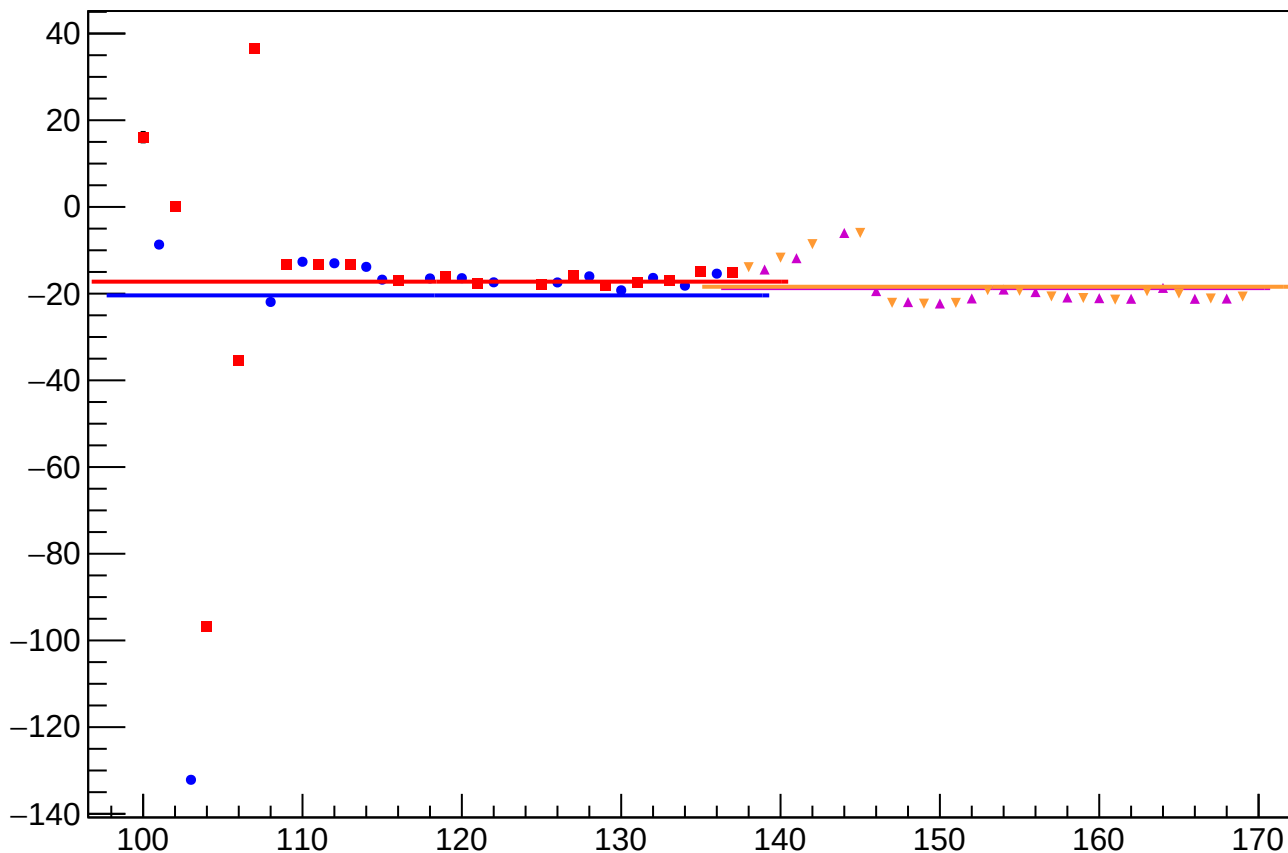
Right: 42.345 ± 0.487 χ^2/NDF : 503.5/33

In: 35.264 ± 0.369 χ^2/NDF : 605.1/30

Out: 35.264 ± 0.362 χ^2/NDF : 511.1/33

All: 35.264 ± 0.259 χ^2/NDF : 1116.3/64

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -20.405 ± 0.042 χ^2/NDF : 245611.9/15

Left Out: -18.411 ± 0.019 χ^2/NDF : 57150.7/15

Right Out: -17.236 ± 0.044 χ^2/NDF : 204657.3/17

Left In: -18.727 ± 0.020 χ^2/NDF : 44365.8/14

Left: -18.568 ± 0.014 χ^2/NDF : 101648.5/30

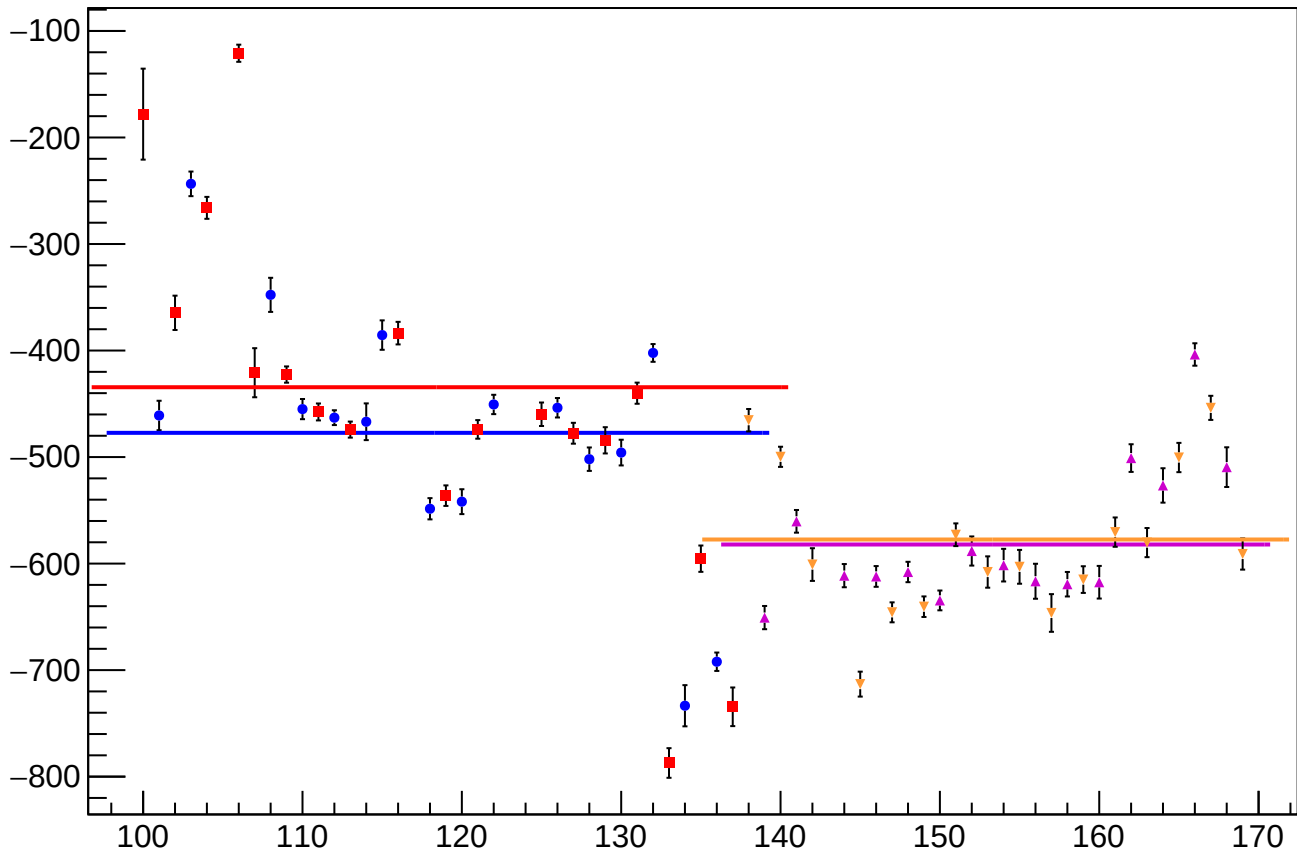
Right: -18.901 ± 0.030 χ^2/NDF : 452982.8/33

In: -19.027 ± 0.018 χ^2/NDF : 291293.9/30

Out: -18.221 ± 0.018 χ^2/NDF : 262403.3/33

All: -18.625 ± 0.013 χ^2/NDF : 554731.1/64

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -477.255+/-2.633 χ^2/NDF : 1510.8/15

Left Out: -577.385+/-3.025 χ^2/NDF : 596.7/15

Right Out: -434.437+/-2.464 χ^2/NDF : 3161.9/17

Left In: -582.088+/-3.078 χ^2/NDF : 475.1/14

Left: -579.696+/-2.158 χ^2/NDF : 1073.0/30

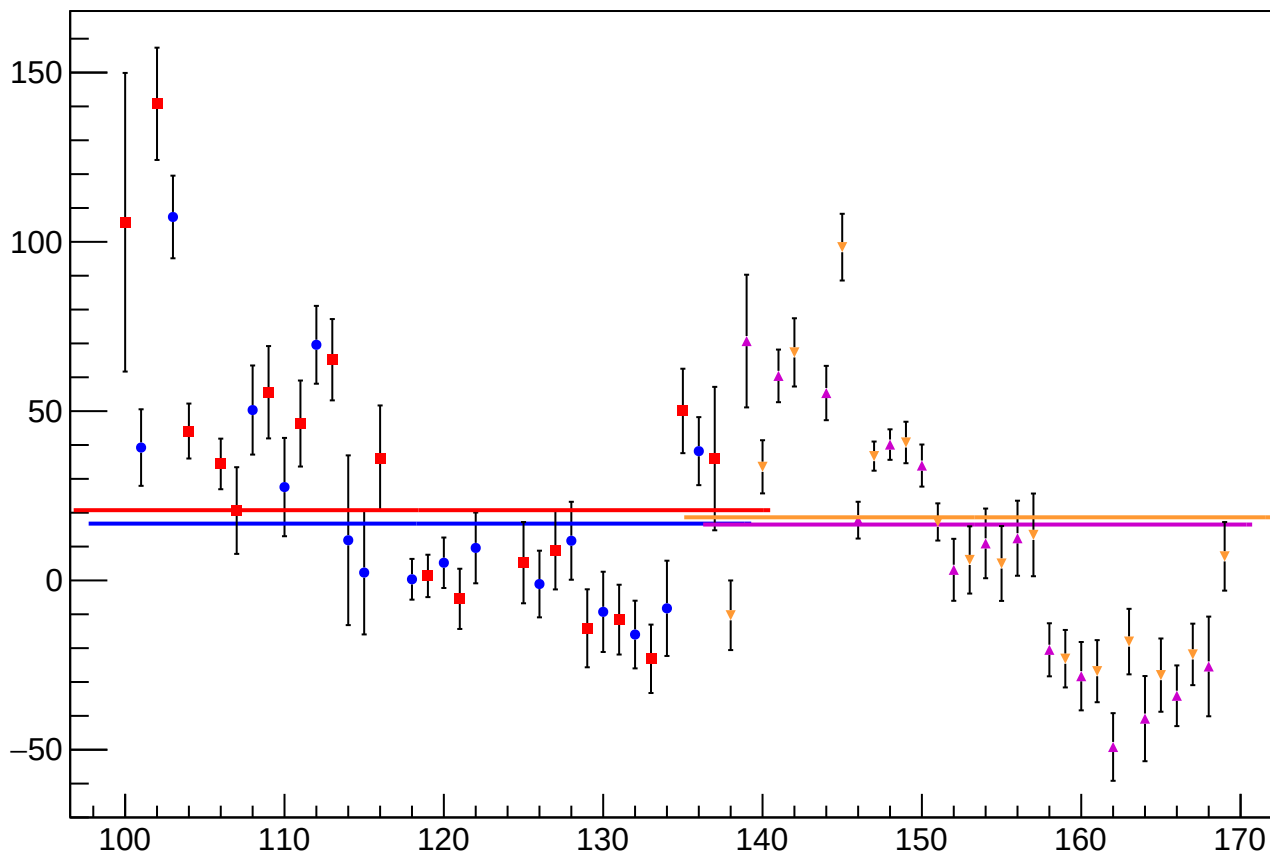
Right: -454.426+/-1.799 χ^2/NDF : 4813.7/33

In: -521.553+/-2.001 χ^2/NDF : 2655.7/30

Out: -491.438+/-1.910 χ^2/NDF : 5100.8/33

All: -505.800+/-1.382 χ^2/NDF : 7875.1/64

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 16.780 $\pm$ 2.654 χ^2 /NDF: 125.0/15

Left Out: 18.647 $\pm$ 1.994 χ^2 /NDF:237.4/15

Right Out: 20.749 $\pm$ 2.548 χ^2 /NDF: 157.9/17

Left In: 16.506 $\pm$ 2.073 χ^2 /NDF:246.9/14

Left: 17.618 $\pm$ 1.437 χ^2 /NDF: 484.8/30

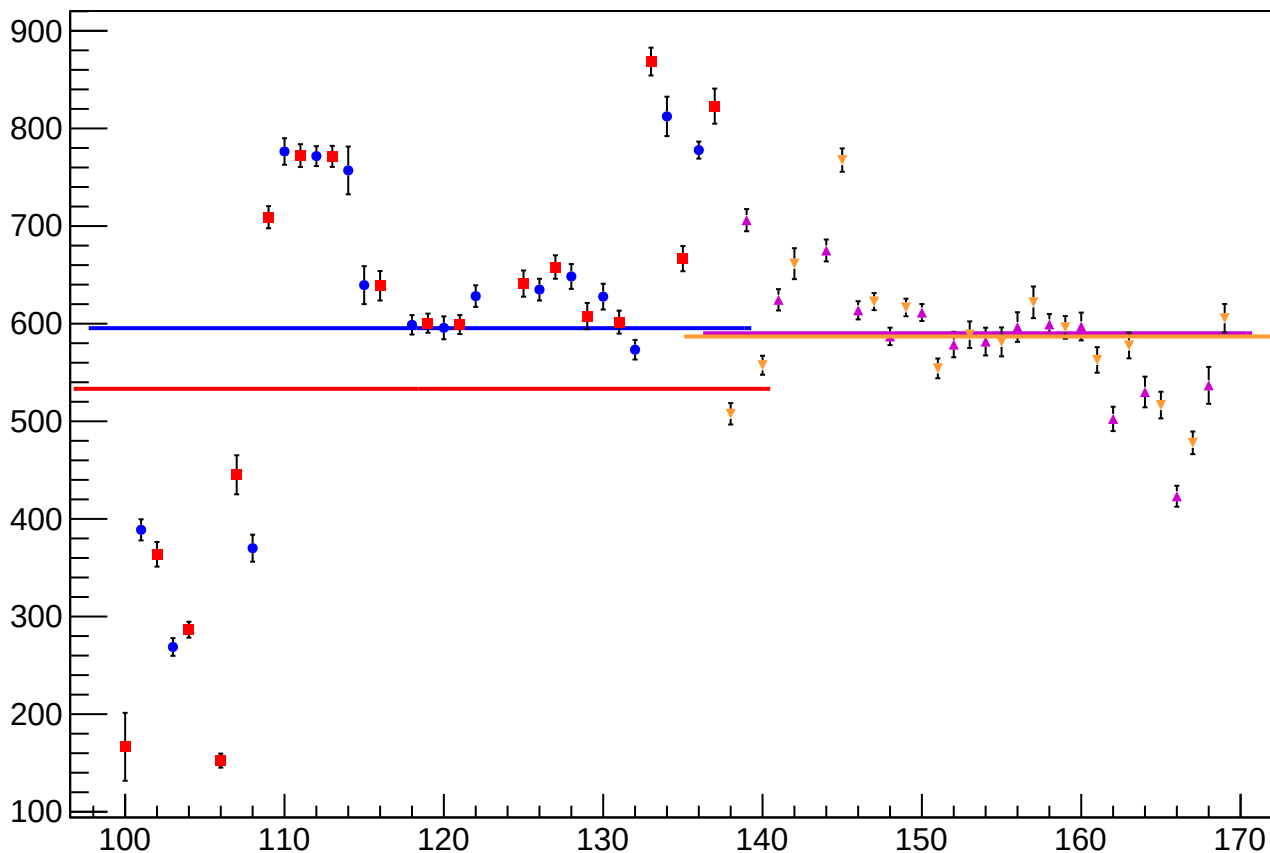
Right: 18.845 $\pm$ 1.838 χ^2 /NDF: 284.1/33

In: 16.610 $\pm$ 1.634 χ^2 /NDF:371.9/30

Out: 19.445 $\pm$ 1.570 χ^2 /NDF:395.7/33

All: 18.084 $\pm$ 1.132 χ^2 /NDF: 769.1/64

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 595.406+/-2.930 χ^2/NDF : 3059.7/15

Left Out: 586.889+/-2.945 χ^2/NDF : 475.3/15

Right Out: 533.283+/-2.746 χ^2/NDF : 6502.9/17

Left In: 590.170+/-2.983 χ^2/NDF : 499.9/14

Left: 588.508+/-2.096 χ^2/NDF : 975.7/30

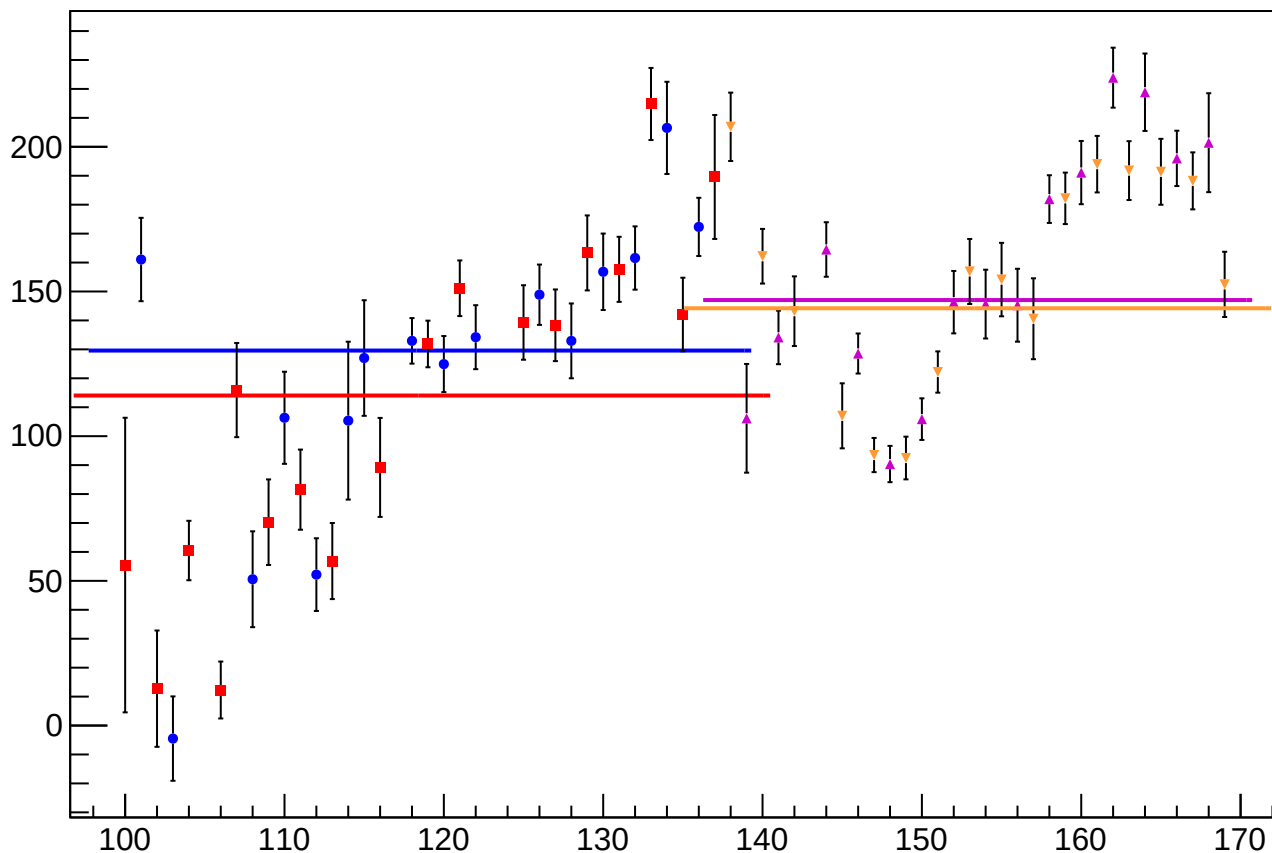
Right: 562.337+/-2.003 χ^2/NDF : 9802.0/33

In: 592.836+/-2.090 χ^2/NDF : 3561.2/30

Out: 558.217+/-2.008 χ^2/NDF : 7155.4/33

All: 574.834+/-1.448 χ^2/NDF : 10859.2/64

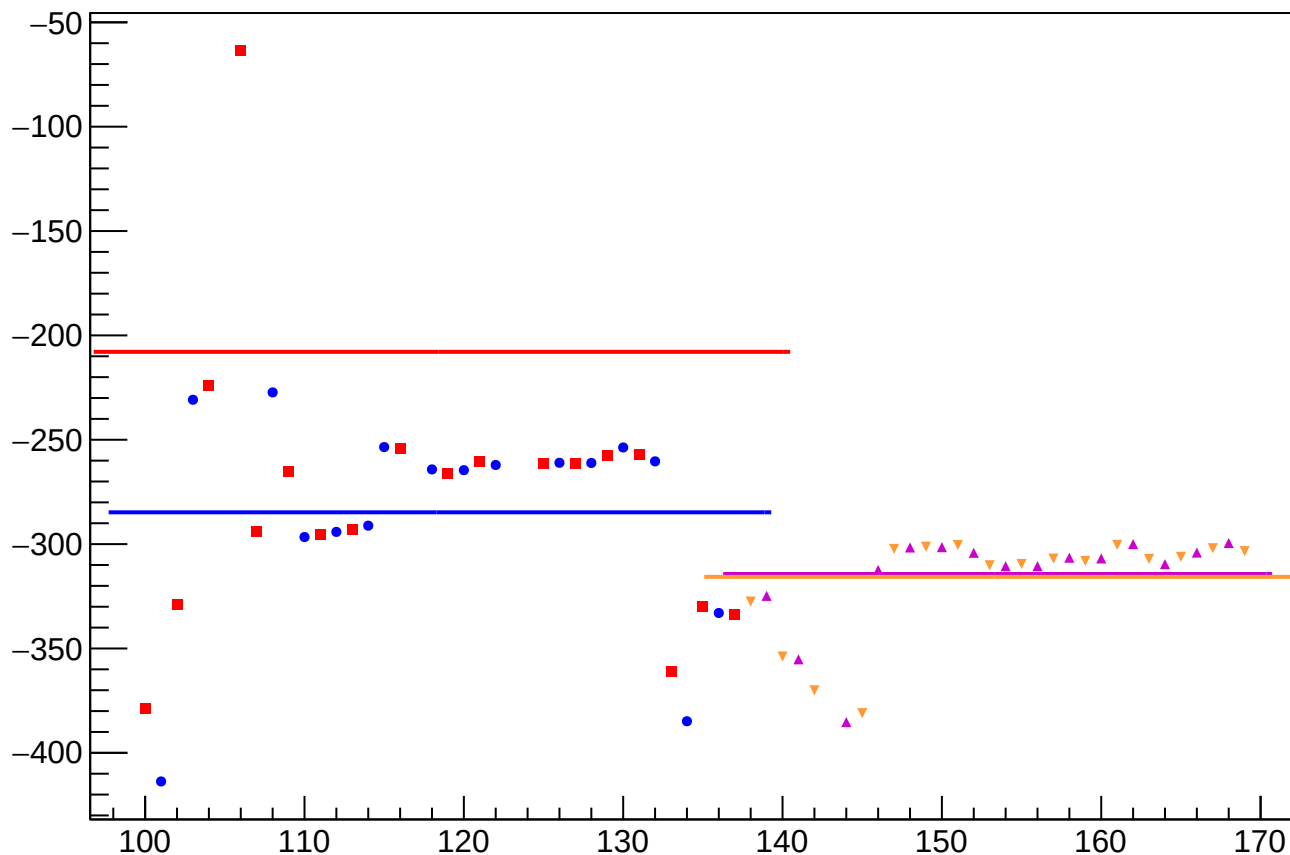
reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 129.586 ± 3.081 $\chi^2/\text{NDF}: 211.2/15$
 Left Out: 144.201 ± 2.372 $\chi^2/\text{NDF}: 281.0/15$
 Right Out: 114.048 ± 2.976 $\chi^2/\text{NDF}: 335.9/17$
 Left In: 147.042 ± 2.456 $\chi^2/\text{NDF}: 286.0/14$

Left: 145.572 ± 1.706 $\chi^2/\text{NDF}: 567.7/30$
 Right: 121.549 ± 2.140 $\chi^2/\text{NDF}: 560.3/33$
 In: 140.258 ± 1.921 $\chi^2/\text{NDF}: 516.9/30$
 Out: 132.491 ± 1.855 $\chi^2/\text{NDF}: 679.7/33$
 All: 136.239 ± 1.334 $\chi^2/\text{NDF}: 1205.1/64$

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -284.765+/-0.178 χ^2/NDF : 104370.4/15

Left Out: -315.690+/-0.113 χ^2/NDF : 42823.5/15

Right Out: -207.875+/-0.149 χ^2/NDF : 536707.7/17

Left In: -314.320+/-0.114 χ^2/NDF : 34868.5/14

Left: -315.010+/-0.081 χ^2/NDF : 77764.2/30

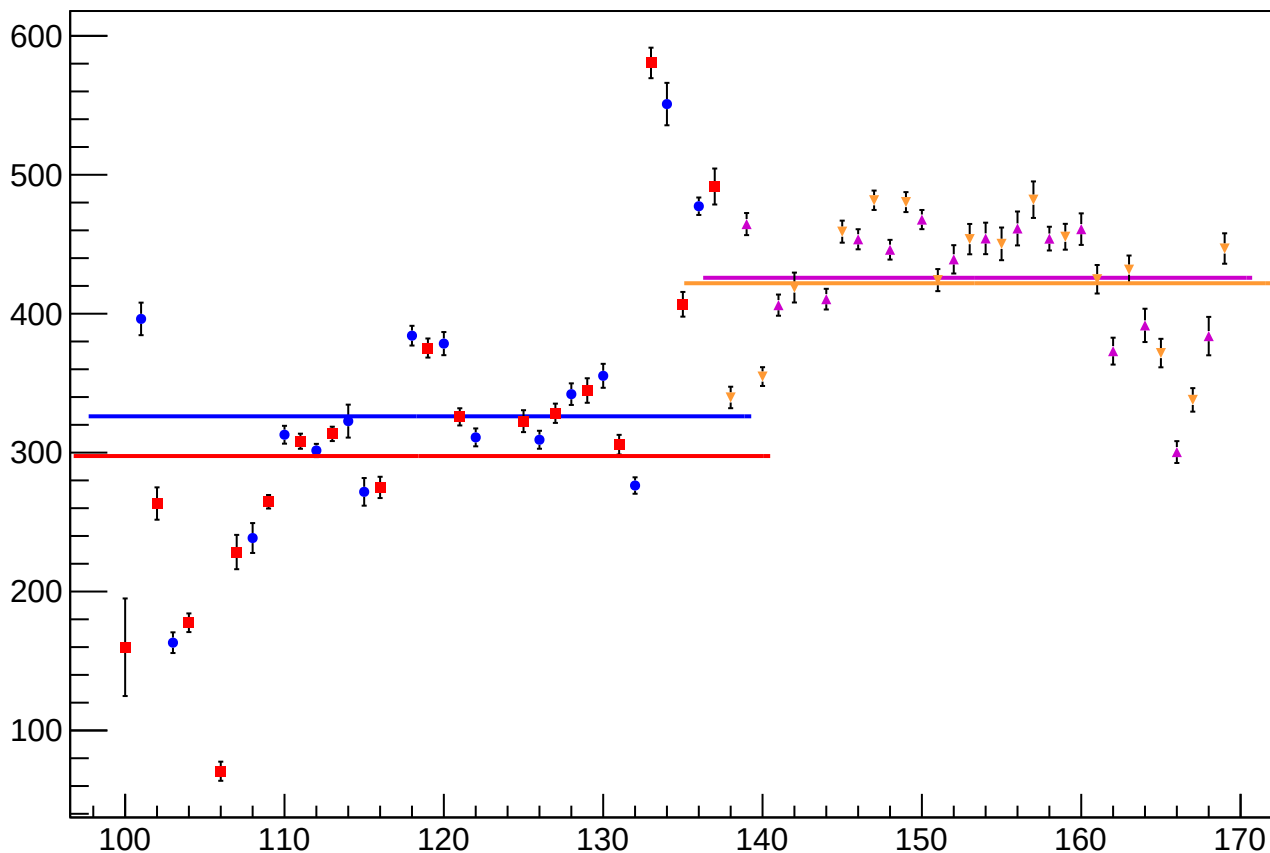
Right: -239.608+/-0.114 χ^2/NDF : 751214.9/33

In: -305.648+/-0.096 χ^2/NDF : 158817.1/30

Out: -276.051+/-0.090 χ^2/NDF : 911323.2/33

All: -289.910+/-0.066 χ^2/NDF : 1120499.3/64

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 326.133+/-1.857 χ^2/NDF : 1642.9/15

Left Out: 421.926+/-2.221 χ^2/NDF :550.1/15

Right Out: 297.538+/-1.735 χ^2/NDF : 2775.4/17

Left In: 425.850+/-2.261 χ^2/NDF :432.6/14

Left: 423.853+/-1.584 χ^2/NDF : 984.2/30

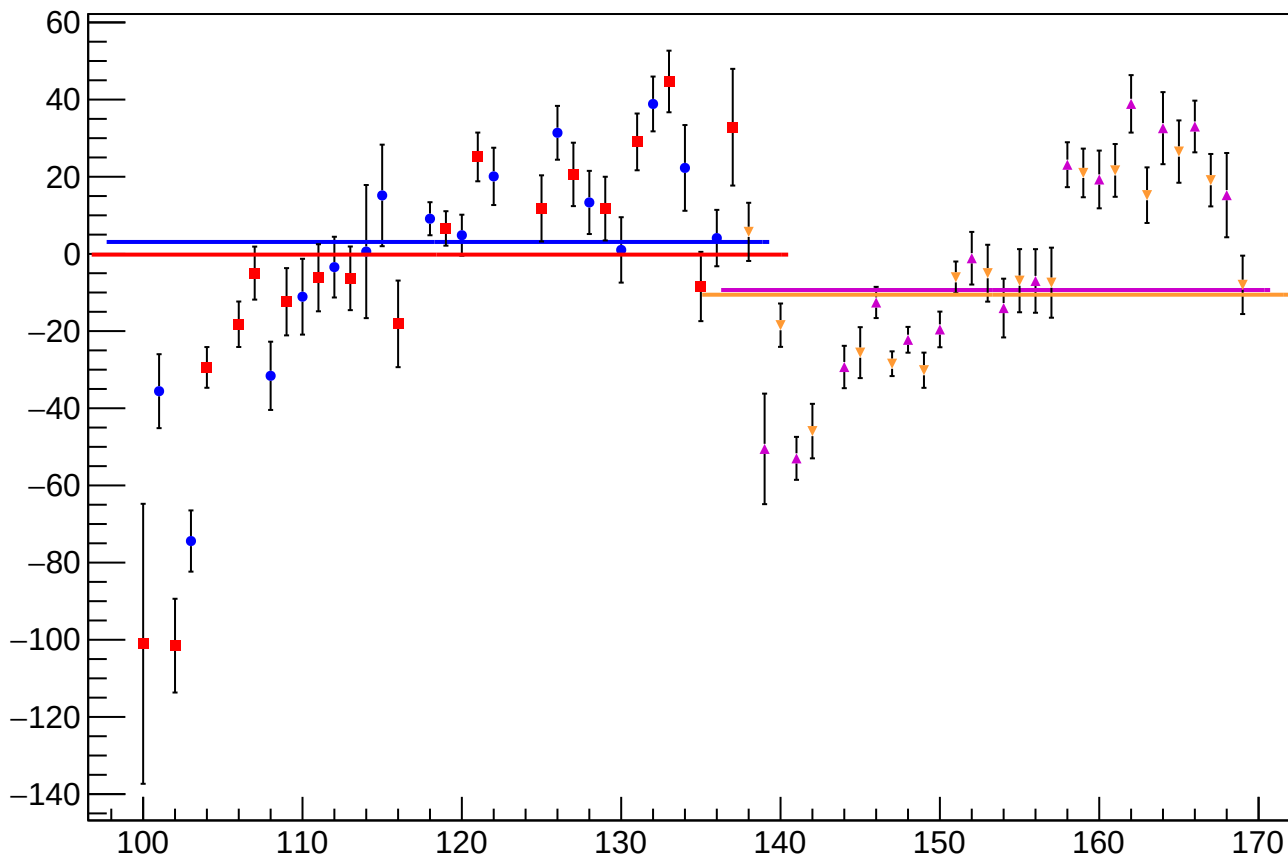
Right: 310.864+/-1.268 χ^2/NDF : 4545.0/33

In: 366.293+/-1.435 χ^2/NDF :3237.1/30

Out: 344.676+/-1.367 χ^2/NDF :5274.2/33

All: 354.960+/-0.990 χ^2/NDF : 8630.3/64

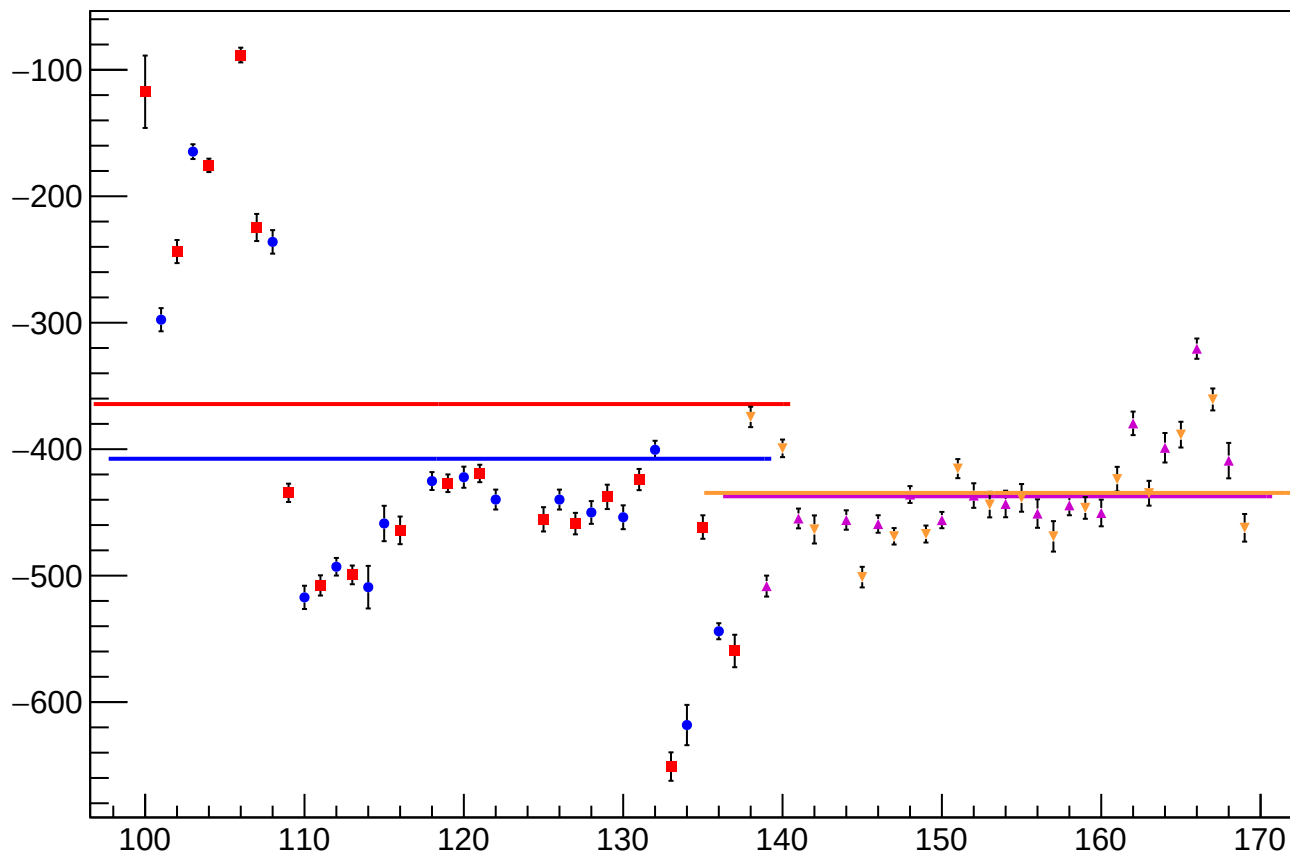
reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 3.101 ± 1.892 $\chi^2/\text{NDF}: 184.5/15$
 Left Out: -10.570 ± 1.470 $\chi^2/\text{NDF}: 188.9/15$
 Right Out: -0.180 ± 1.791 $\chi^2/\text{NDF}: 205.2/17$
 Left In: -9.351 ± 1.527 $\chi^2/\text{NDF}: 258.3/14$

Left: -9.984 ± 1.059 $\chi^2/\text{NDF}: 447.5/30$
 Right: 1.370 ± 1.301 $\chi^2/\text{NDF}: 391.3/33$
 In: -4.439 ± 1.188 $\chi^2/\text{NDF}: 469.0/30$
 Out: -6.390 ± 1.136 $\chi^2/\text{NDF}: 414.2/33$
 All: -5.458 ± 0.821 $\chi^2/\text{NDF}: 884.6/64$

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -407.575+/-2.074 χ^2/NDF : 3280.5/15

Left Out: -434.574+/-2.165 χ^2/NDF : 324.4/15

Right Out: -364.323+/-1.942 χ^2/NDF : 6220.4/17

Left In: -437.247+/-2.194 χ^2/NDF : 372.4/14

Left: -435.893+/-1.541 χ^2/NDF : 697.5/30

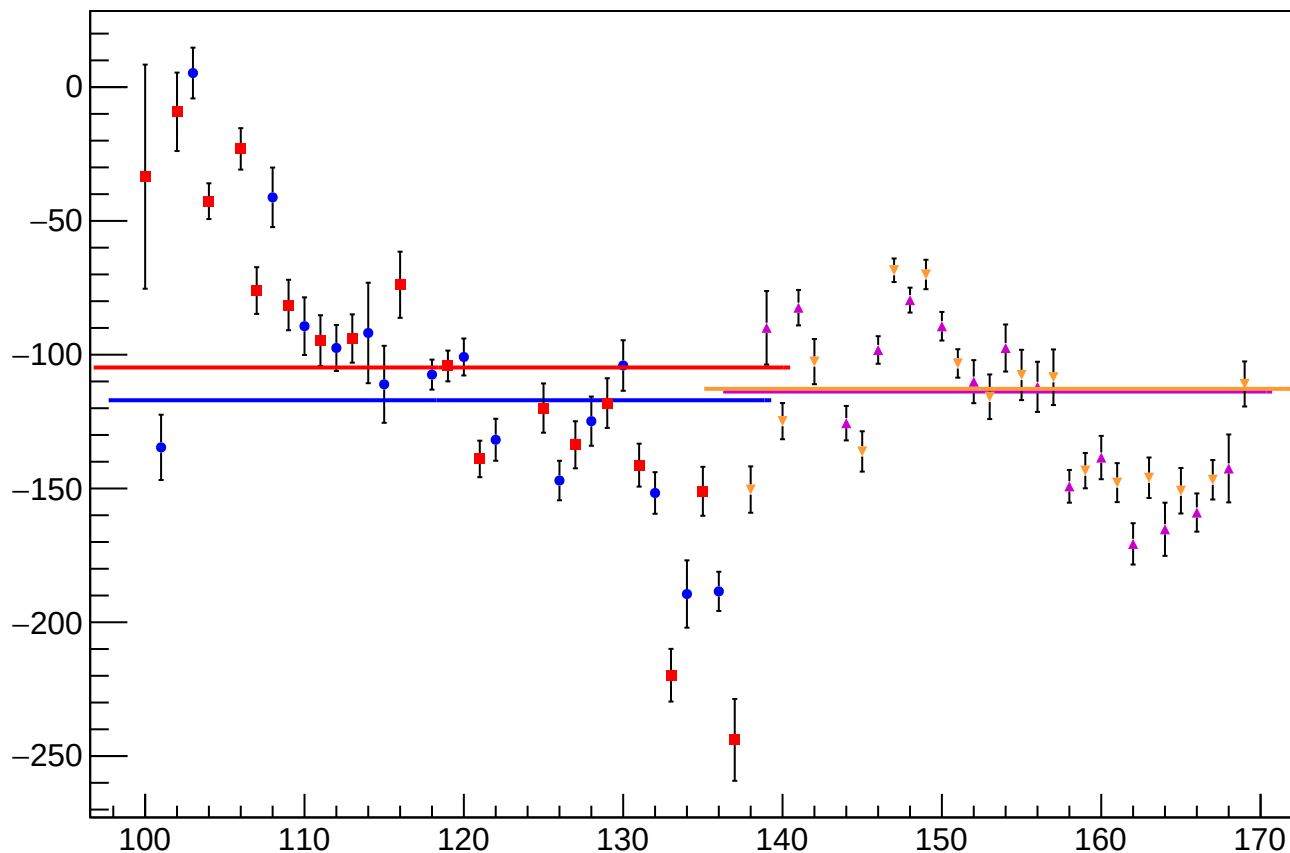
Right: -384.535+/-1.418 χ^2/NDF : 9732.7/33

In: -421.572+/-1.507 χ^2/NDF : 3749.5/30

Out: -395.657+/-1.446 χ^2/NDF : 7128.2/33

All: -408.075+/-1.043 χ^2/NDF : 11031.7/64

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -117.021 $\pm$ 2.194 χ^2 /NDF: 407.8/15

Left Out: -112.764 $\pm$ 1.747 χ^2 /NDF:304.3/15

Right Out: -104.780 $\pm$ 2.091 χ^2 /NDF: 575.1/17

Left In: -113.767 $\pm$ 1.809 χ^2 /NDF:285.3/14

Left: -113.248 $\pm$ 1.257 χ^2 /NDF: 589.7/30

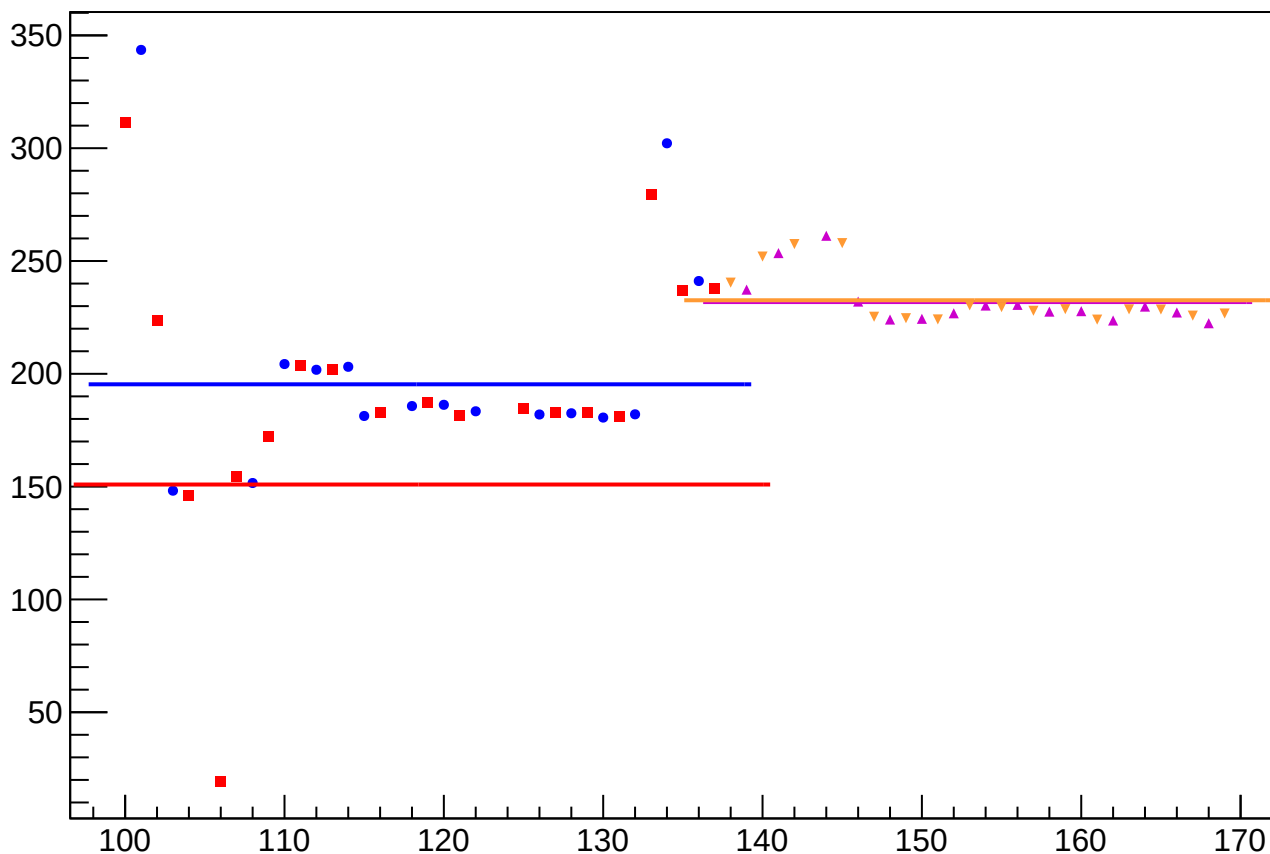
Right: -110.605 $\pm$ 1.514 χ^2 /NDF: 999.2/33

In: -115.084 $\pm$ 1.396 χ^2 /NDF:694.4/30

Out: -109.481 $\pm$ 1.341 χ^2 /NDF:887.9/33

All: -112.169 $\pm$ 0.967 χ^2 /NDF: 1590.8/64

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 195.351 +/- 0.125 χ^2/NDF : 176975.5/15

Left Out: 232.600 +/- 0.084 χ^2/NDF : 17835.4/15

Right Out: 150.932 +/- 0.110 χ^2/NDF : 499233.7/17

Left In: 231.805 +/- 0.084 χ^2/NDF : 15651.6/14

Left: 232.206 +/- 0.059 χ^2/NDF : 33531.8/30

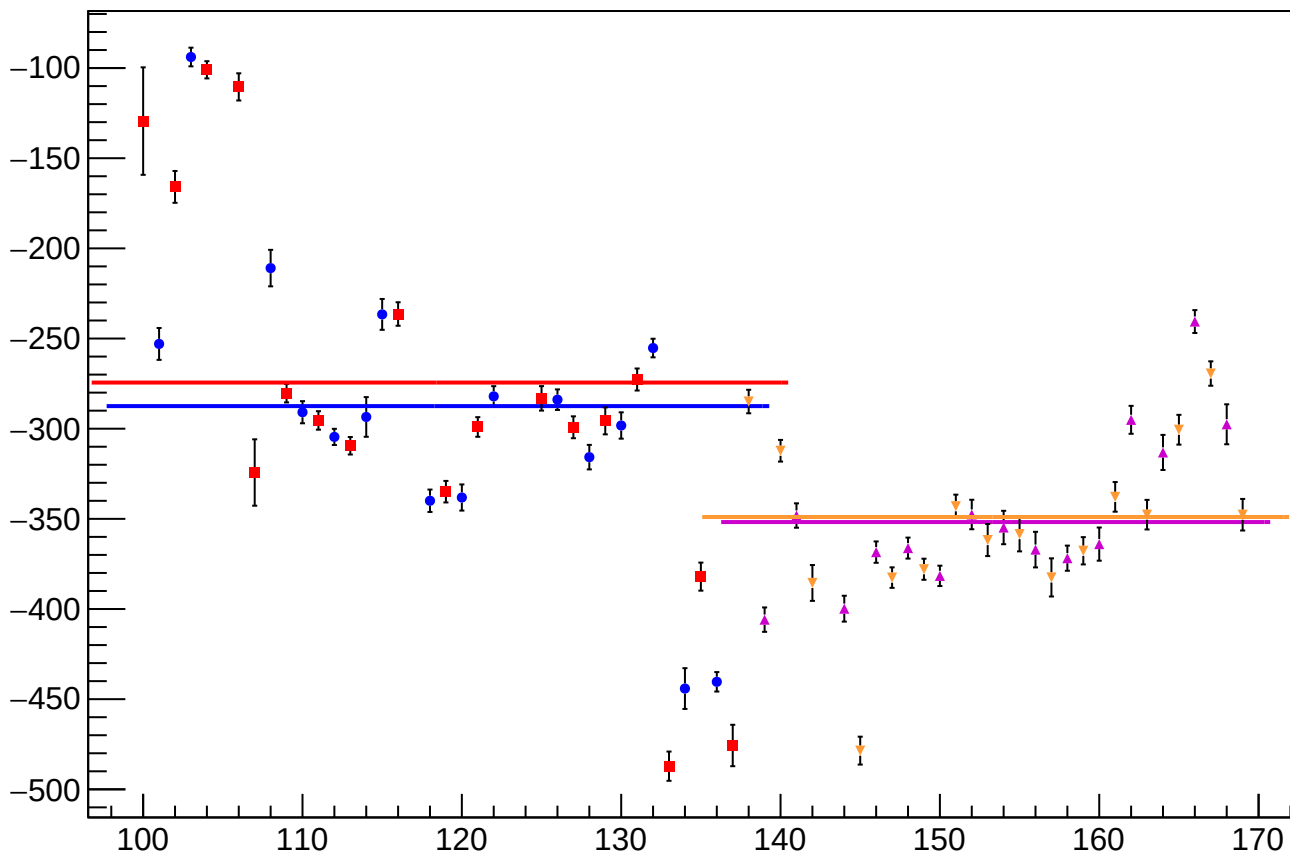
Right: 170.416 +/- 0.083 χ^2/NDF : 747517.5/33

In: 220.360 +/- 0.070 χ^2/NDF : 251322.9/30

Out: 202.772 +/- 0.067 χ^2/NDF : 865885.2/33

All: 211.147 +/- 0.048 χ^2/NDF : 1150437.3/64

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -287.476+/-1.611 χ^2/NDF : 2696.5/15

Left Out: -348.975+/-1.852 χ^2/NDF : 681.7/15

Right Out: -274.417+/-1.551 χ^2/NDF : 3413.4/17

Left In: -351.776+/-1.883 χ^2/NDF : 564.9/14

Left: -350.352+/-1.320 χ^2/NDF : 1247.7/30

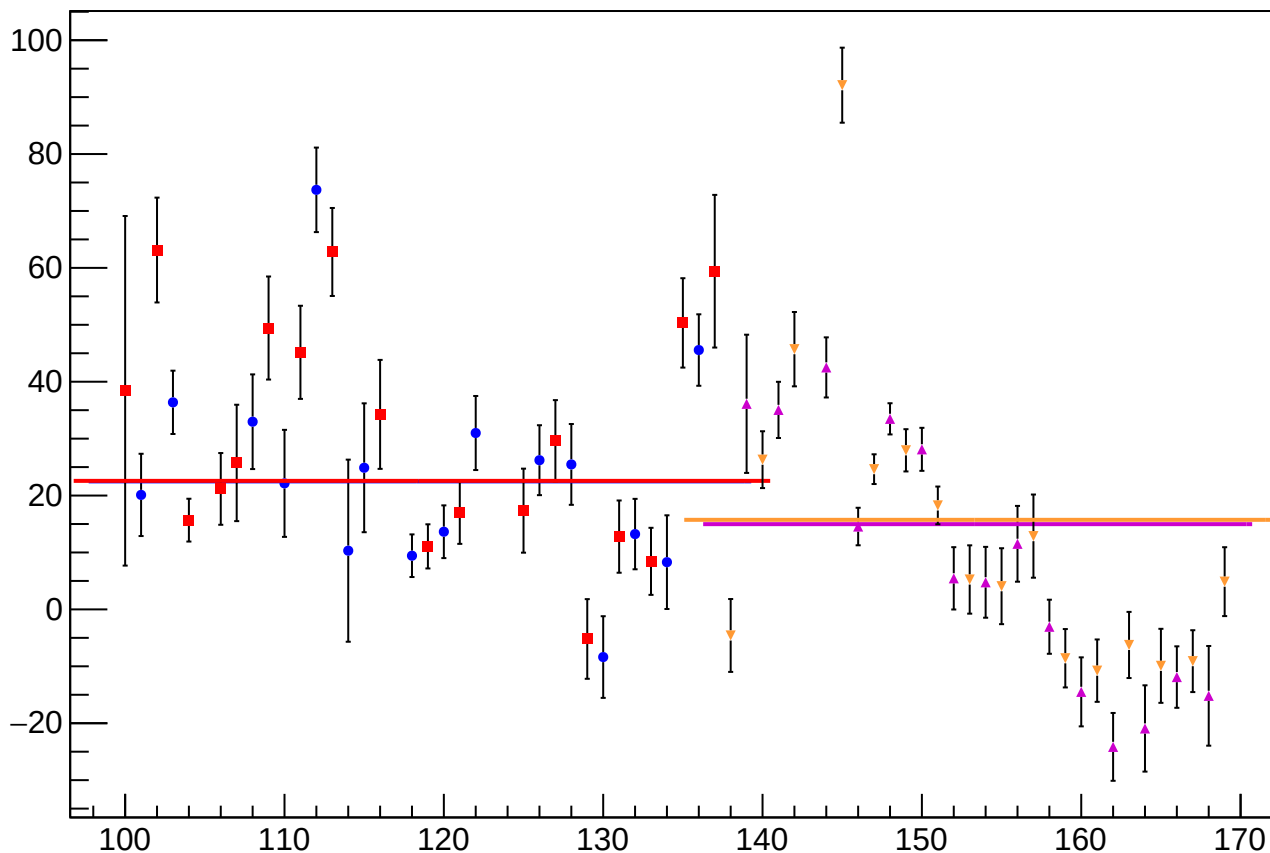
Right: -280.699+/-1.118 χ^2/NDF : 6144.0/33

In: -314.655+/-1.224 χ^2/NDF : 3934.6/30

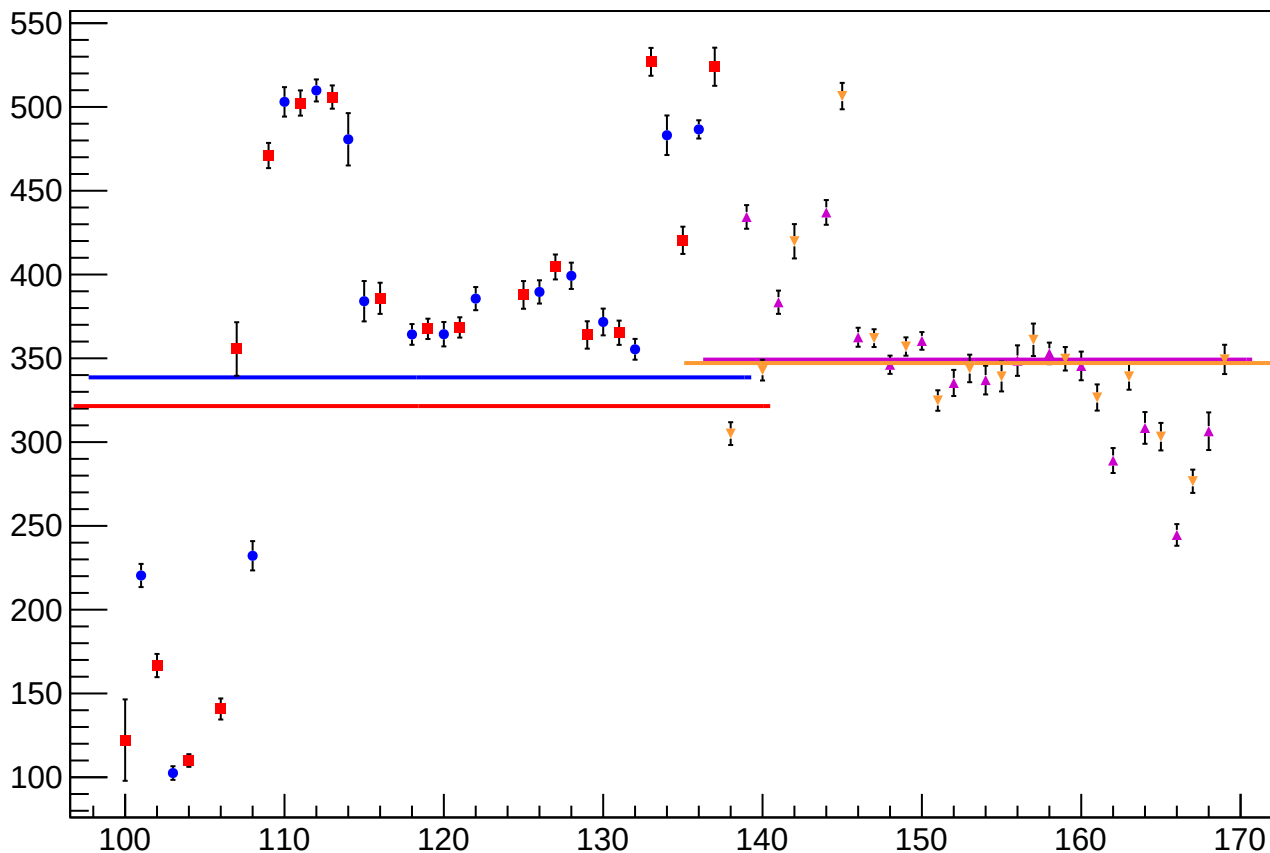
Out: -305.157+/-1.189 χ^2/NDF : 5047.4/33

All: -309.769+/-0.853 χ^2/NDF : 9012.9/64

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 338.633 ± 1.748 $\chi^2/\text{NDF}: 6042.6/15$

Left Out: 347.175 ± 1.800 $\chi^2/\text{NDF}: 665.6/15$

Right Out: 321.500 ± 1.694 $\chi^2/\text{NDF}: 7720.8/17$

Left In: 349.234 ± 1.823 $\chi^2/\text{NDF}: 688.0/14$

Left: 348.191 ± 1.281 $\chi^2/\text{NDF}: 1354.3/30$

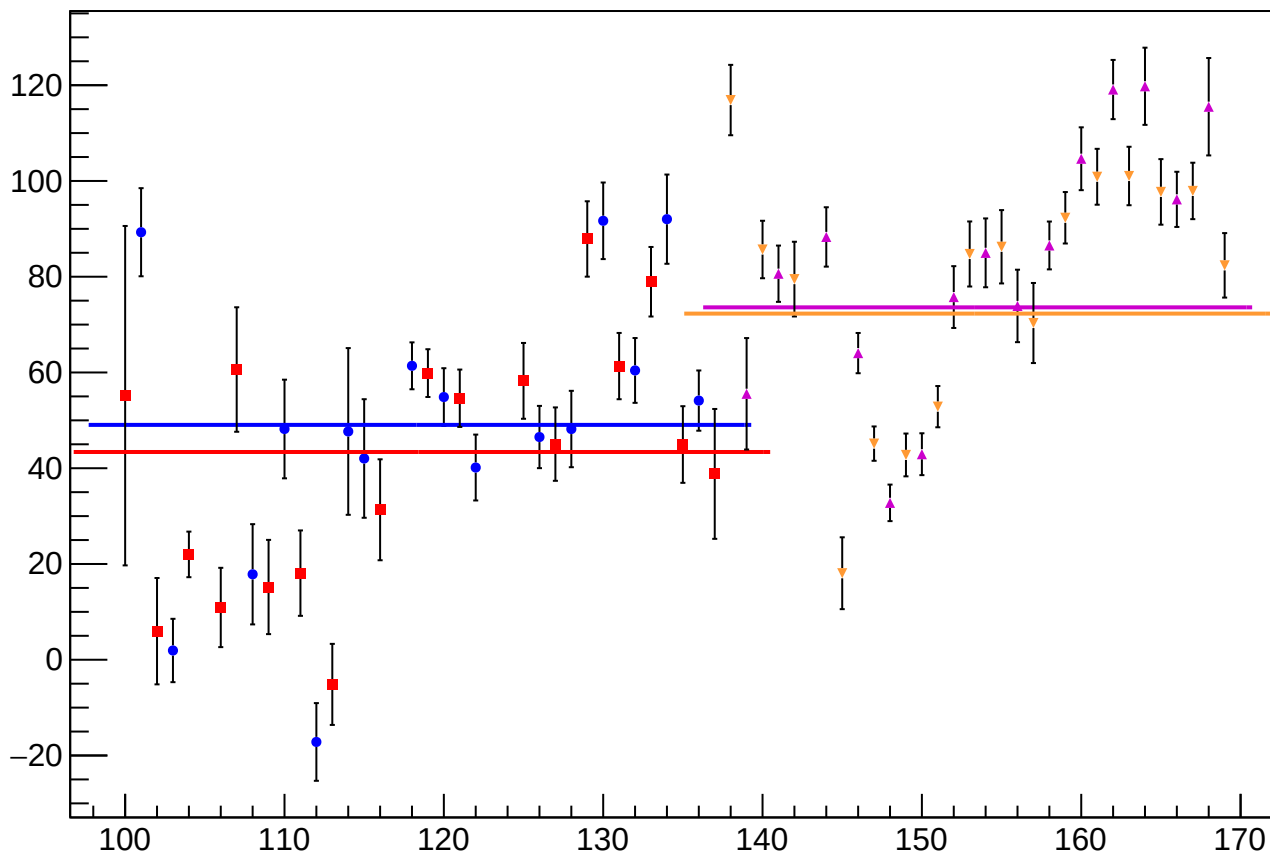
Right: 329.797 ± 1.217 $\chi^2/\text{NDF}: 13813.0/33$

In: 343.712 ± 1.262 $\chi^2/\text{NDF}: 6748.3/30$

Out: 333.563 ± 1.234 $\chi^2/\text{NDF}: 8494.3/33$

All: 338.523 ± 0.882 $\chi^2/\text{NDF}: 15275.7/64$

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 49.053+/-1.882 χ^2/NDF : 207.9/15

Left Out: 72.295+/-1.446 χ^2/NDF :317.9/15

Right Out: 43.392+/-1.834 χ^2/NDF : 180.0/17

Left In: 73.602+/-1.498 χ^2/NDF :329.4/14

Left: 72.925+/-1.041 χ^2/NDF : 647.7/30

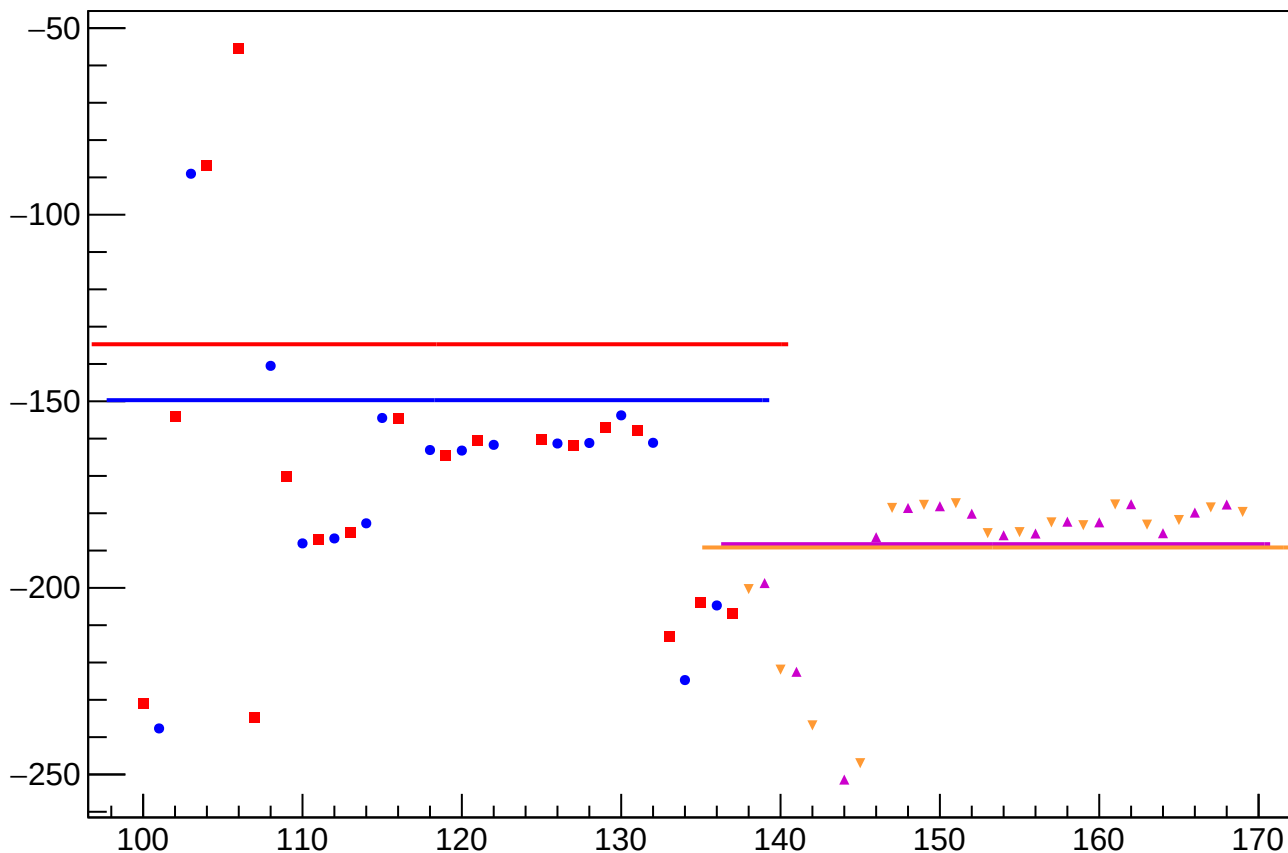
Right: 46.149+/-1.314 χ^2/NDF : 392.6/33

In: 64.080+/-1.172 χ^2/NDF :641.4/30

Out: 61.213+/-1.135 χ^2/NDF :651.1/33

All: 62.601+/-0.816 χ^2/NDF : 1295.6/64

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -149.698+/-0.101 χ^2/NDF : 256472.2/15

Left Out: -189.171+/-0.069 χ^2/NDF : 76751.3/15

Right Out: -134.715+/-0.097 χ^2/NDF : 312639.8/17

Left In: -188.286+/-0.070 χ^2/NDF : 62154.7/14

Left: -188.732+/-0.049 χ^2/NDF : 138987.2/30

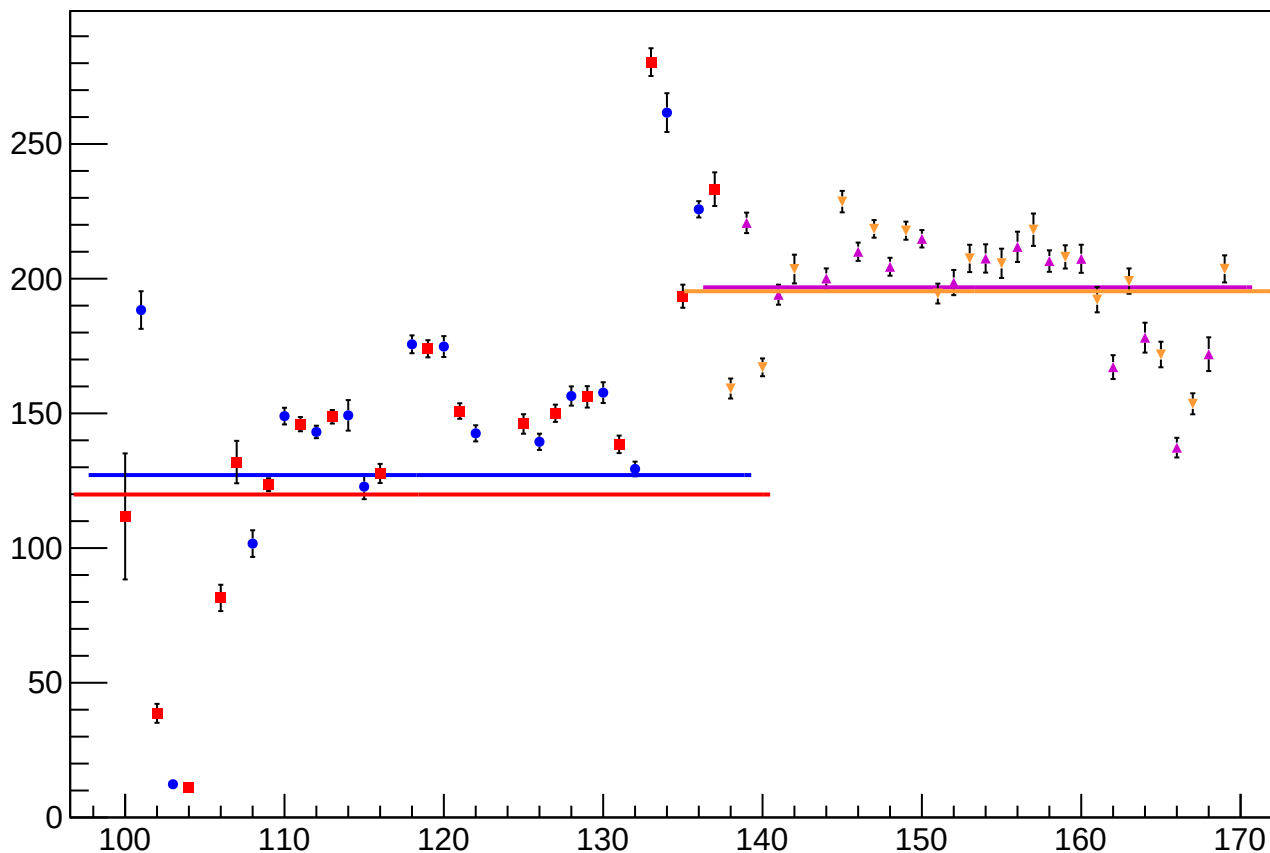
Right: -141.917+/-0.070 χ^2/NDF : 580582.0/33

In: -175.800+/-0.057 χ^2/NDF : 417717.0/30

Out: -170.812+/-0.056 χ^2/NDF : 598329.9/33

All: -173.261+/-0.040 χ^2/NDF : 1019897.7/64

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 127.100 $\pm$ 0.811 χ^2 /NDF: 6163.2/15

Left Out: 195.333 $\pm$ 1.046 χ^2 /NDF:511.5/15

Right Out: 119.886 $\pm$ 0.774 χ^2 /NDF: 6649.6/17

Left In: 196.789 $\pm$ 1.063 χ^2 /NDF:451.1/14

Left: 196.049 $\pm$ 0.746 χ^2 /NDF: 963.6/30

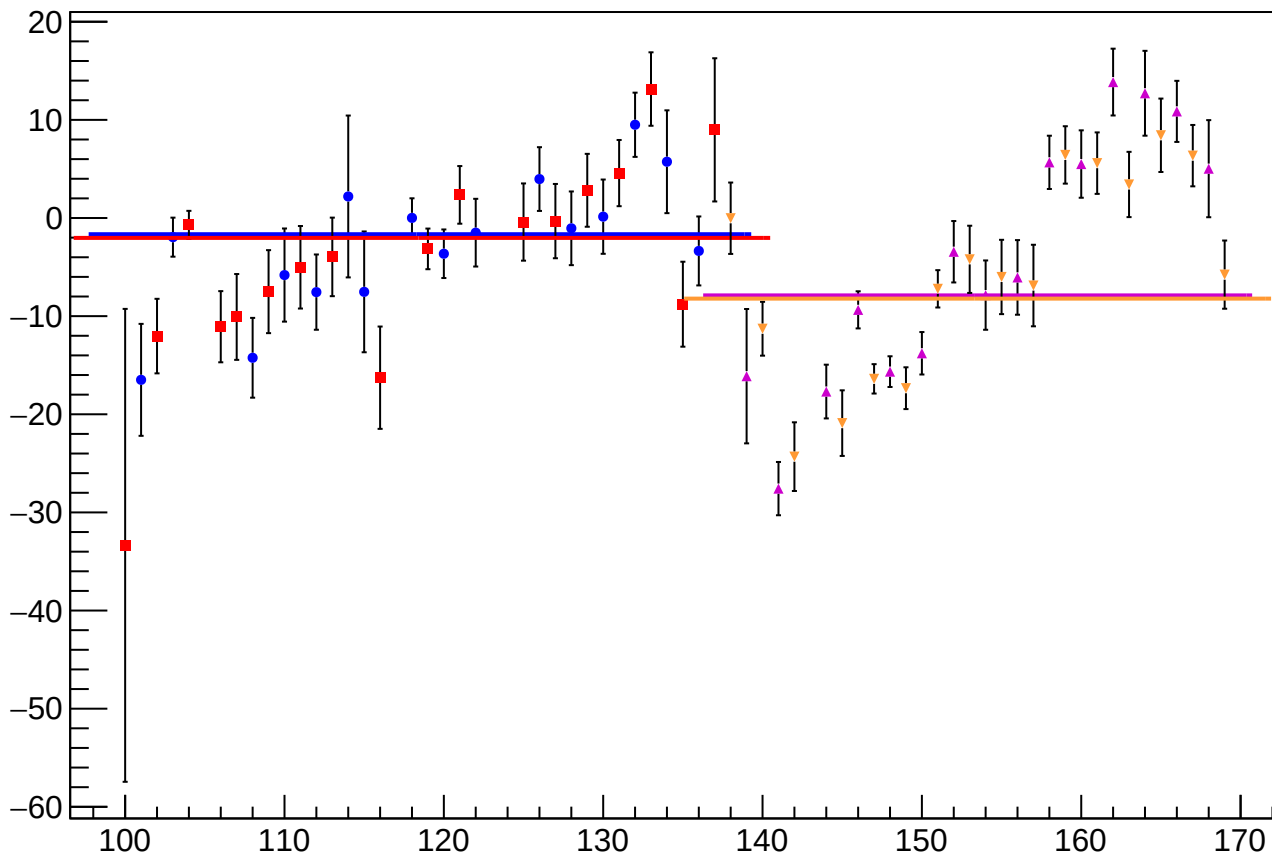
Right: 123.326 $\pm$ 0.560 χ^2 /NDF: 12854.2/33

In: 152.721 $\pm$ 0.645 χ^2 /NDF:9330.3/30

Out: 146.590 $\pm$ 0.622 χ^2 /NDF:10522.2/33

All: 149.547 $\pm$ 0.448 χ^2 /NDF: 19899.3/64

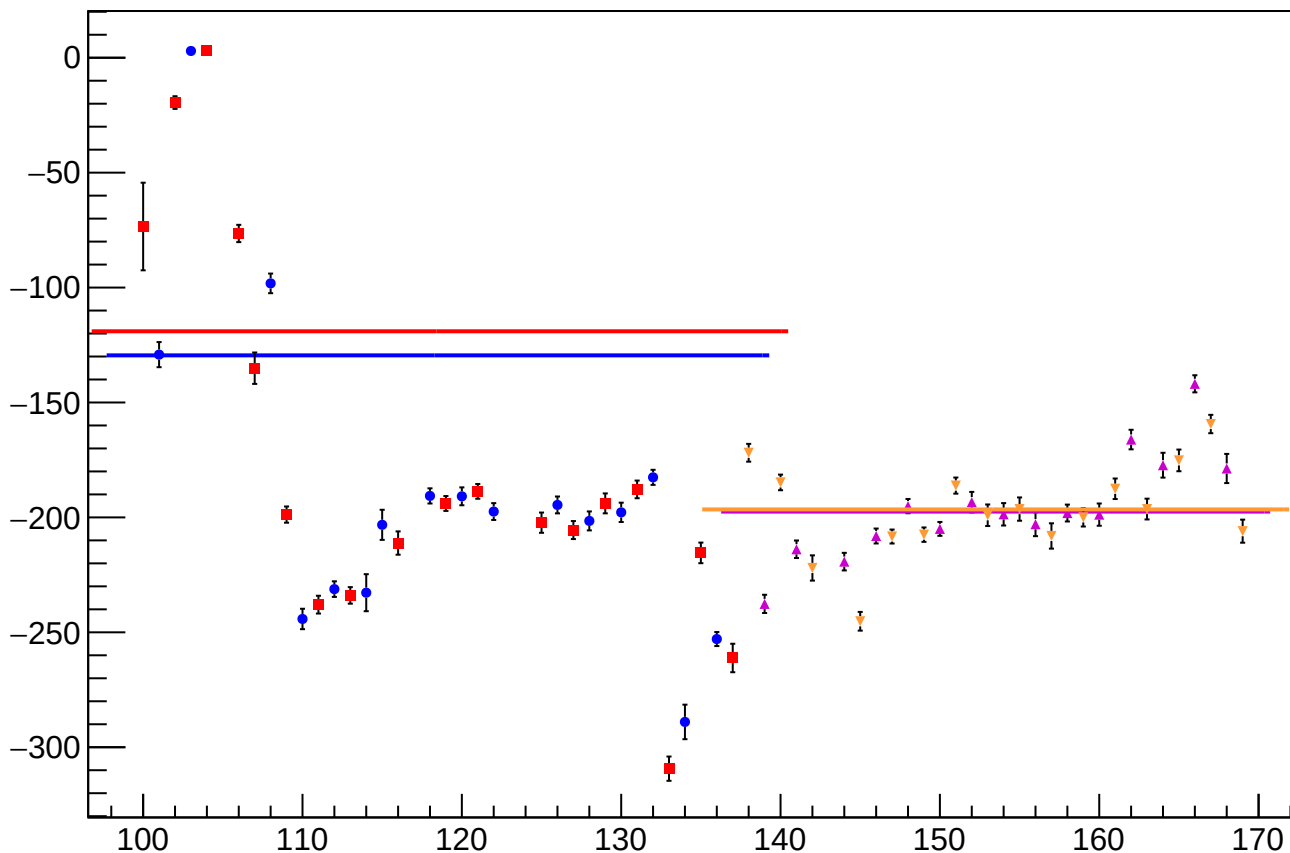
reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.651 ± 0.833 χ^2/NDF : 39.1/15
 Left Out: -8.214 ± 0.690 χ^2/NDF : 190.9/15
 Right Out: -2.027 ± 0.770 χ^2/NDF : 58.6/17
 Left In: -7.886 ± 0.716 χ^2/NDF : 248.5/14

Left: -8.056 ± 0.497 χ^2/NDF : 439.6/30
 Right: -1.854 ± 0.565 χ^2/NDF : 97.8/33
 In: -5.234 ± 0.543 χ^2/NDF : 319.8/30
 Out: -5.460 ± 0.514 χ^2/NDF : 285.3/33
 All: -5.353 ± 0.373 χ^2/NDF : 605.2/64

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -129.497 ± 0.846 $\chi^2/\text{NDF}: 14687.9/15$

Left Out: -196.530 ± 1.018 $\chi^2/\text{NDF}: 372.9/15$

Right Out: -119.022 ± 0.813 $\chi^2/\text{NDF}: 16177.3/17$

Left In: -197.482 ± 1.031 $\chi^2/\text{NDF}: 472.8/14$

Left: -197.000 ± 0.724 $\chi^2/\text{NDF}: 846.1/30$

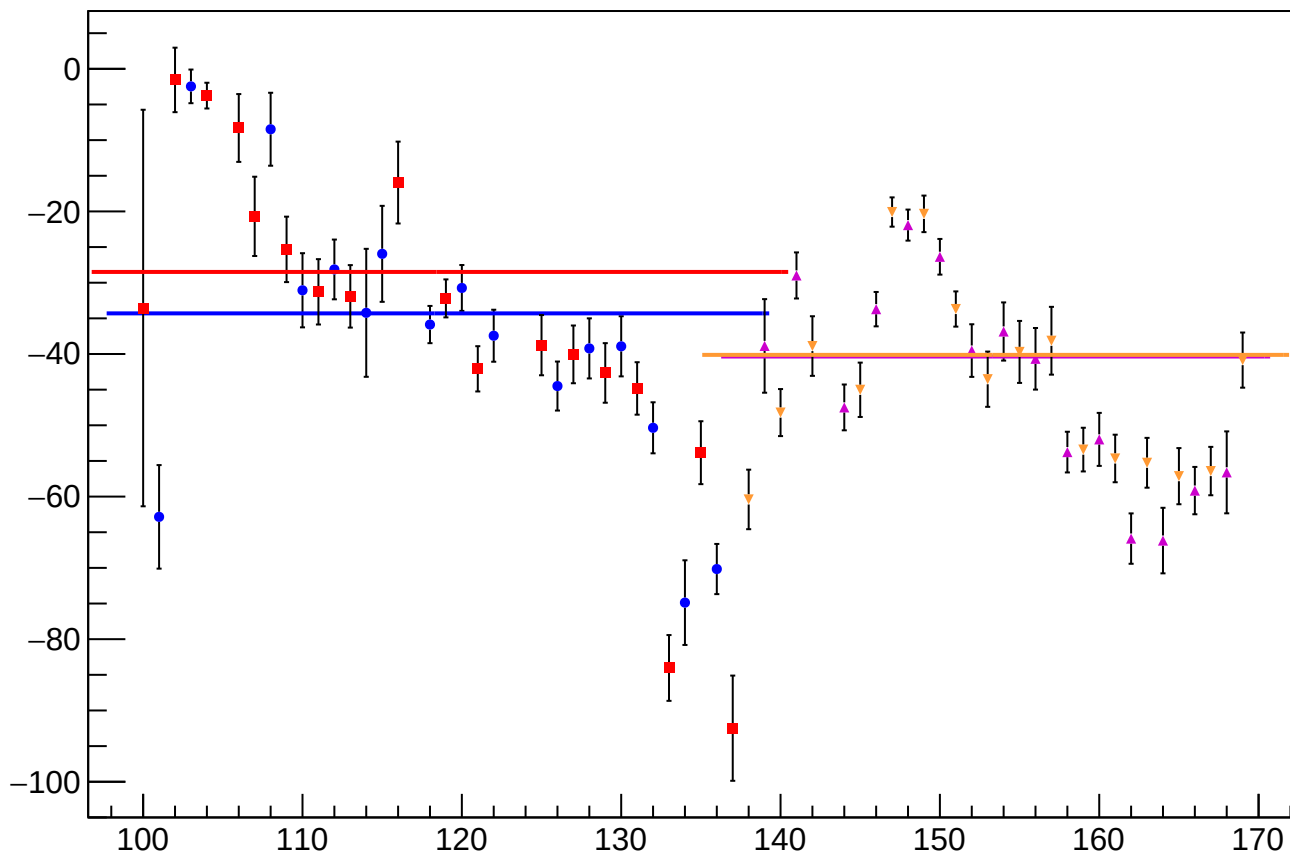
Right: -124.047 ± 0.586 $\chi^2/\text{NDF}: 30944.8/33$

In: -156.880 ± 0.654 $\chi^2/\text{NDF}: 17759.3/30$

Out: -149.200 ± 0.635 $\chi^2/\text{NDF}: 20090.8/33$

All: -152.927 ± 0.456 $\chi^2/\text{NDF}: 37921.0/64$

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -34.301 ± 0.968 $\chi^2/\text{NDF}: 411.3/15$

Left Out: -40.122 ± 0.820 $\chi^2/\text{NDF}: 292.1/15$

Right Out: -28.488 ± 0.907 $\chi^2/\text{NDF}: 568.0/17$

Left In: -40.354 ± 0.849 $\chi^2/\text{NDF}: 284.4/14$

Left: -40.234 ± 0.590 $\chi^2/\text{NDF}: 576.5/30$

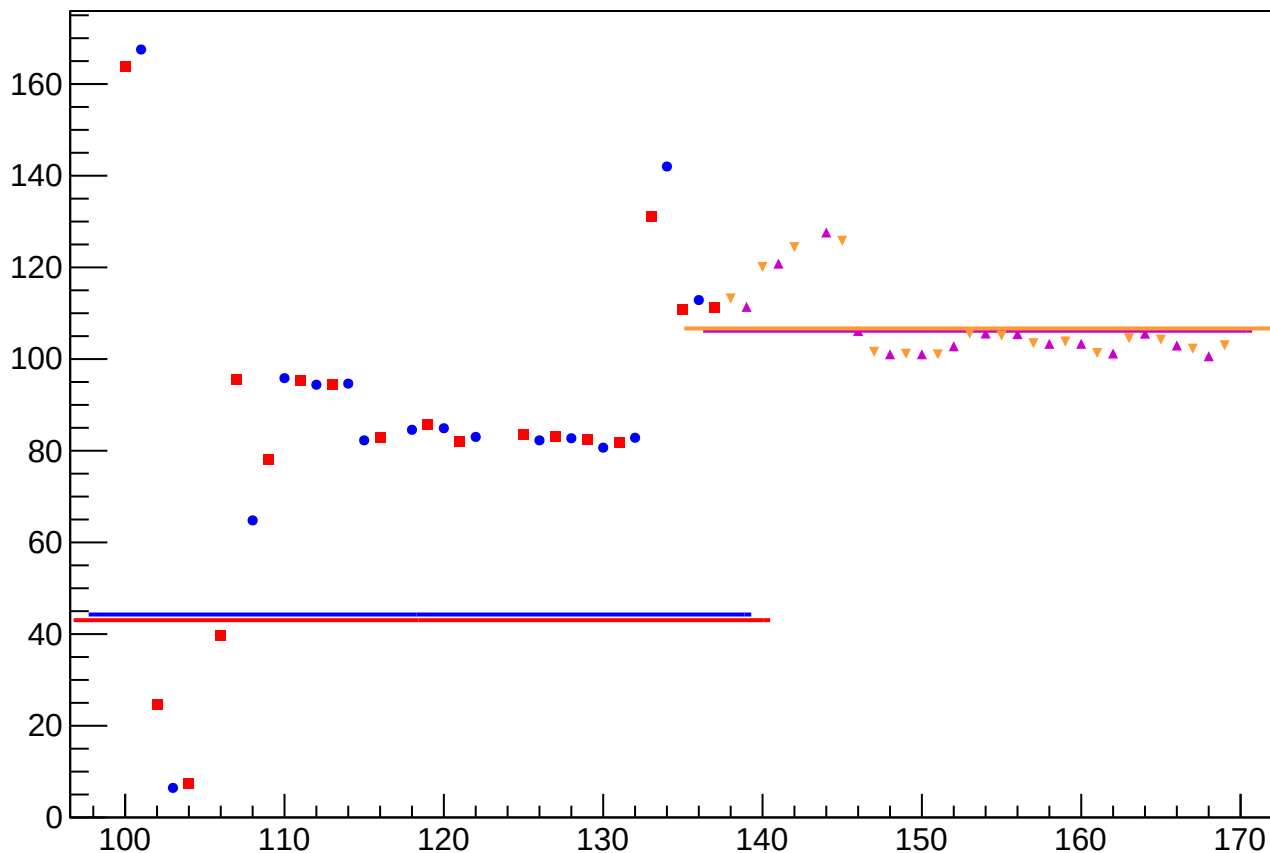
Right: -31.206 ± 0.662 $\chi^2/\text{NDF}: 998.5/33$

In: -37.723 ± 0.638 $\chi^2/\text{NDF}: 717.8/30$

Out: -34.891 ± 0.608 $\chi^2/\text{NDF}: 950.7/33$

All: -36.239 ± 0.440 $\chi^2/\text{NDF}: 1678.8/64$

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 44.274+/-0.045 χ^2/NDF : 1085082.2/15

Left Out: 106.675+/-0.039 χ^2/NDF : 38424.9/15

Right Out: 43.035+/-0.045 χ^2/NDF : 805108.5/17

Left In: 106.179+/-0.039 χ^2/NDF : 32575.4/14

Left: 106.429+/-0.028 χ^2/NDF : 71080.1/30

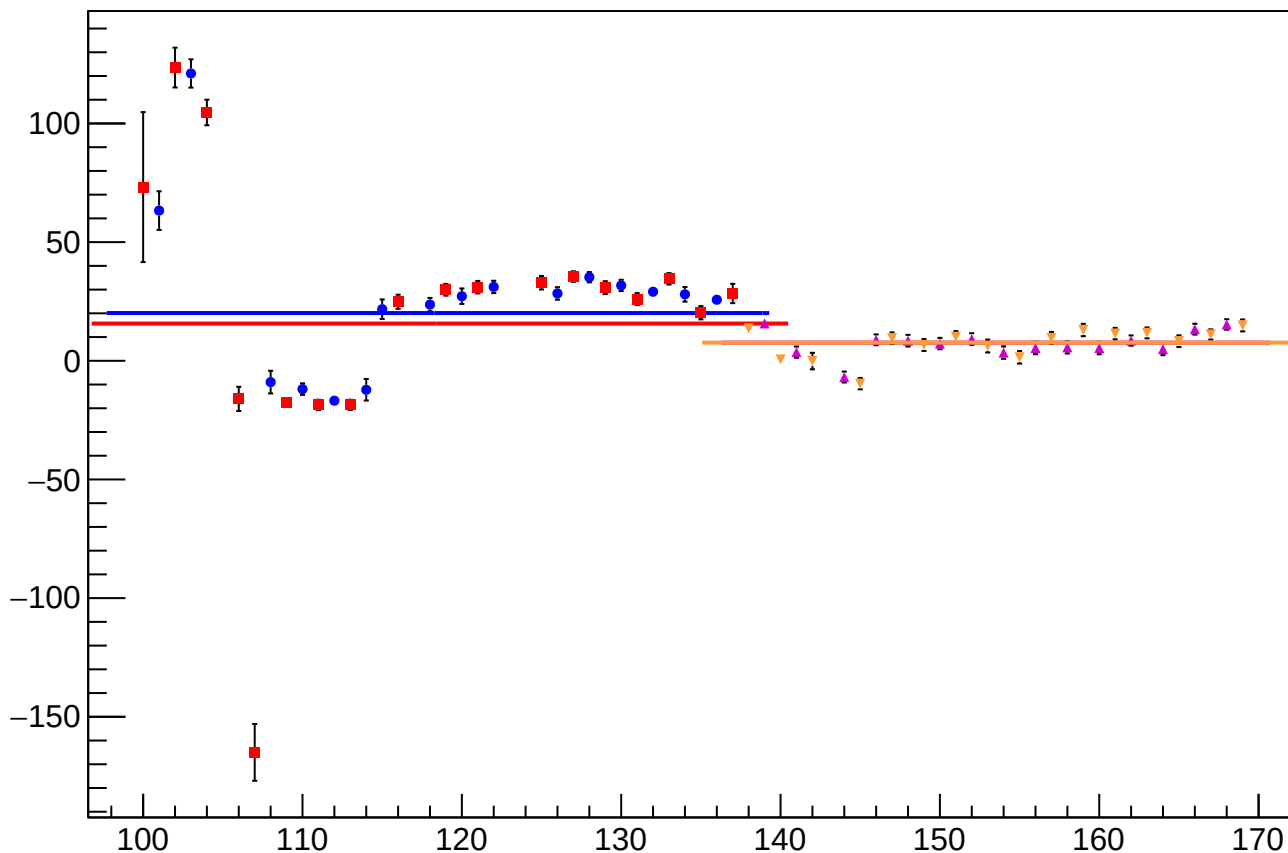
Right: 43.656+/-0.032 χ^2/NDF : 1890570.2/33

In: 79.206+/-0.030 χ^2/NDF : 2188315.1/30

Out: 79.265+/-0.030 χ^2/NDF : 1980349.2/33

All: 79.236+/-0.021 χ^2/NDF : 4168666.3/64

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 20.117+/-0.687 χ^2/NDF : 1048.1/15

Left Out: 7.679+/-0.609 χ^2/NDF : 105.7/15

Right Out: 15.700+/-0.682 χ^2/NDF : 1773.8/17

Left In: 7.651+/-0.615 χ^2/NDF : 83.4/14

Left: 7.665+/-0.433 χ^2/NDF : 189.1/30

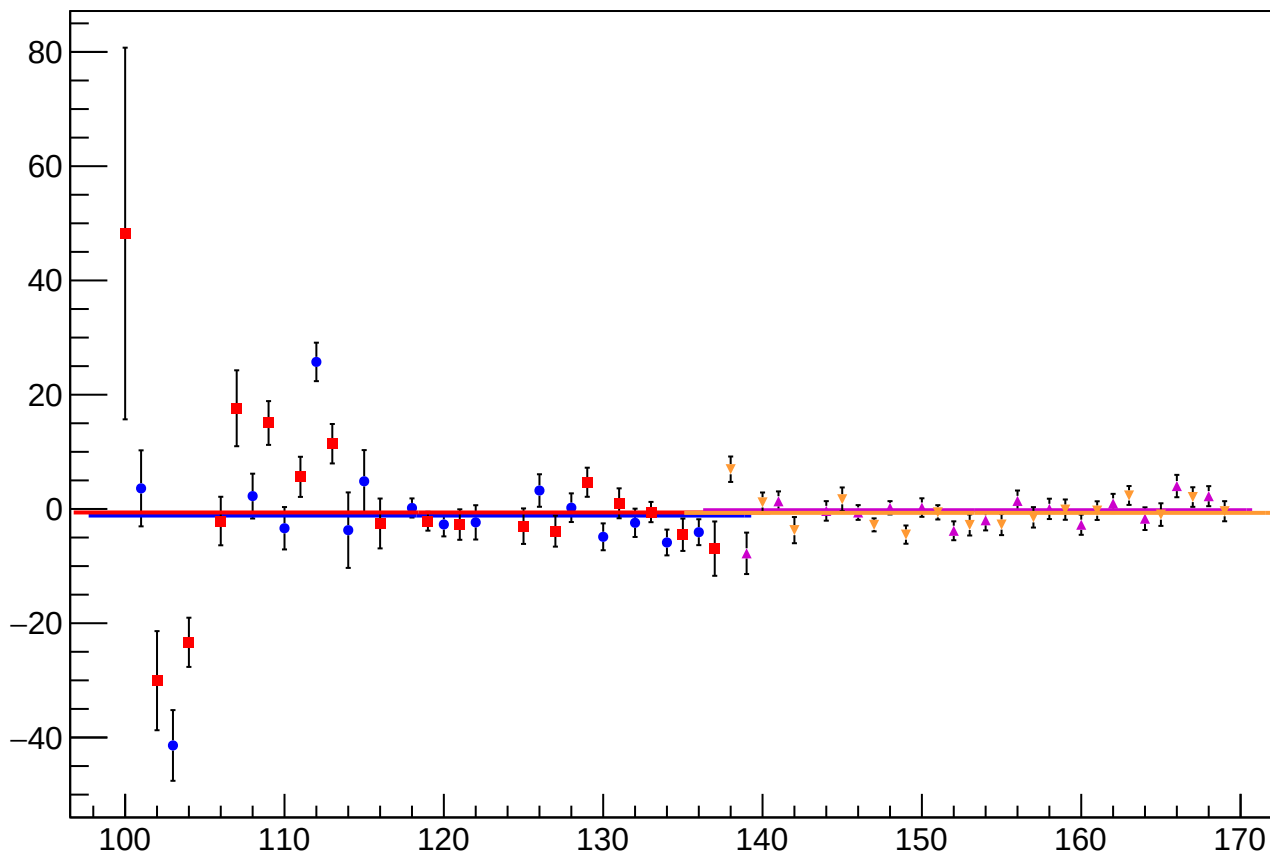
Right: 17.893+/-0.484 χ^2/NDF : 2842.7/33

In: 13.195+/-0.458 χ^2/NDF : 1314.3/30

Out: 11.238+/-0.454 χ^2/NDF : 1956.4/33

All: 12.208+/-0.323 χ^2/NDF : 3279.9/64

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -1.151 ± 0.699 χ^2/NDF : 121.8/15

Left Out: -0.681 ± 0.421 χ^2/NDF : 34.0/15

Right Out: -0.614 ± 0.713 χ^2/NDF : 93.4/17

Left In: -0.220 ± 0.435 χ^2/NDF : 21.7/14

Left: -0.458 ± 0.303 χ^2/NDF : 56.3/30

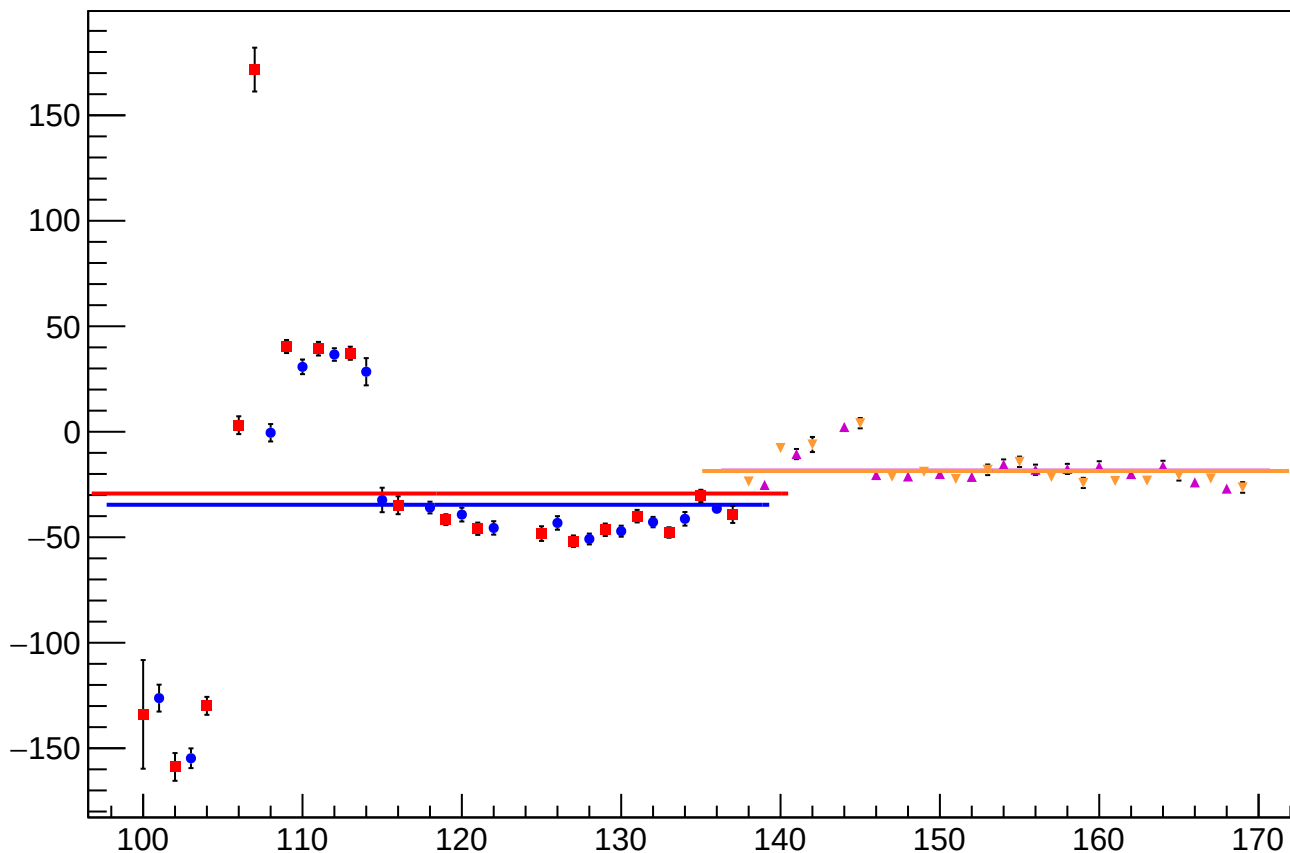
Right: -0.888 ± 0.499 χ^2/NDF : 215.5/33

In: -0.480 ± 0.369 χ^2/NDF : 144.9/30

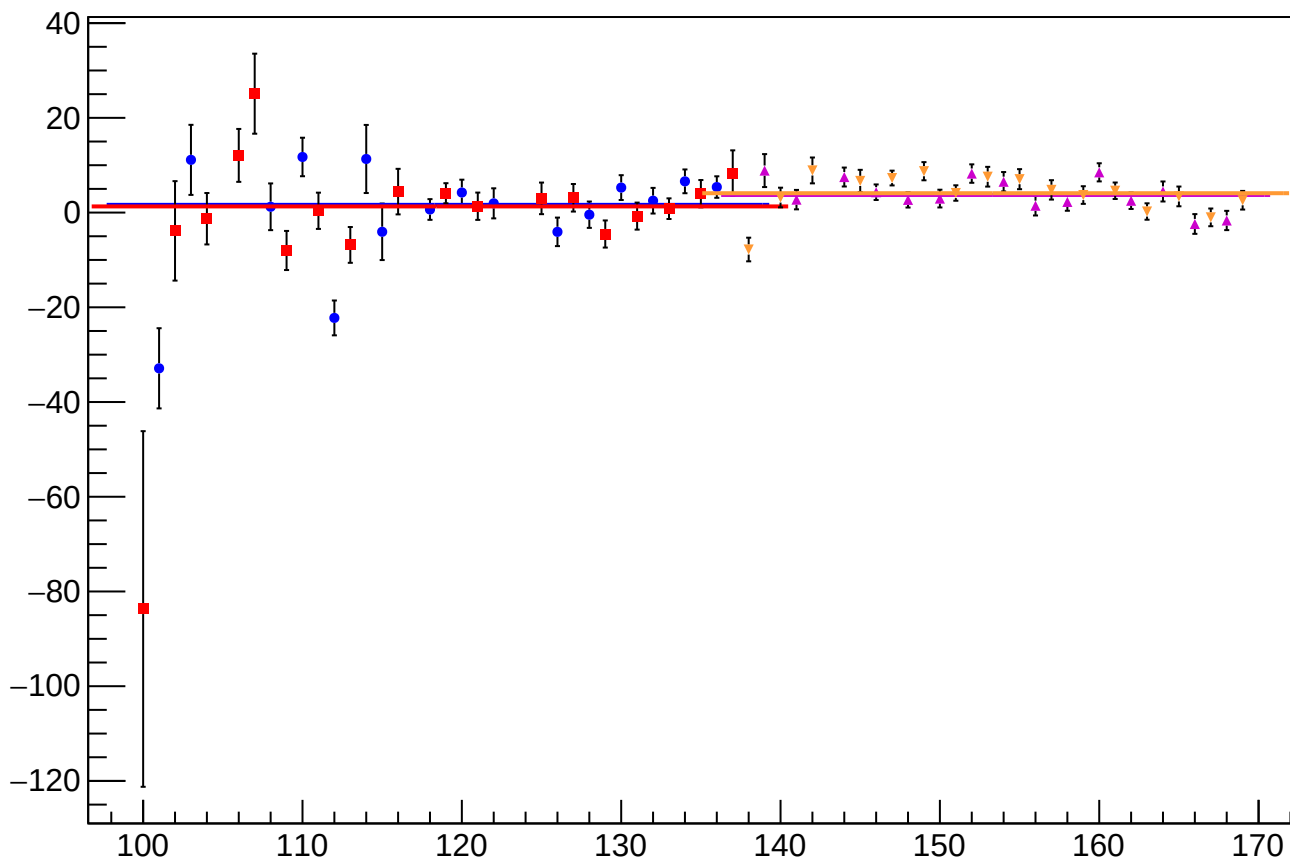
Out: -0.664 ± 0.363 χ^2/NDF : 127.4/33

All: -0.573 ± 0.259 χ^2/NDF : 272.4/64

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 1.630 ± 0.797 χ^2/NDF : 83.3/15

Left Out: 4.088 ± 0.489 χ^2/NDF : 55.4/15

Right Out: 1.298 ± 0.817 χ^2/NDF : 37.5/17

Left In: 3.718 ± 0.504 χ^2/NDF : 38.3/14

Left: 3.909 ± 0.351 χ^2/NDF : 94.0/30

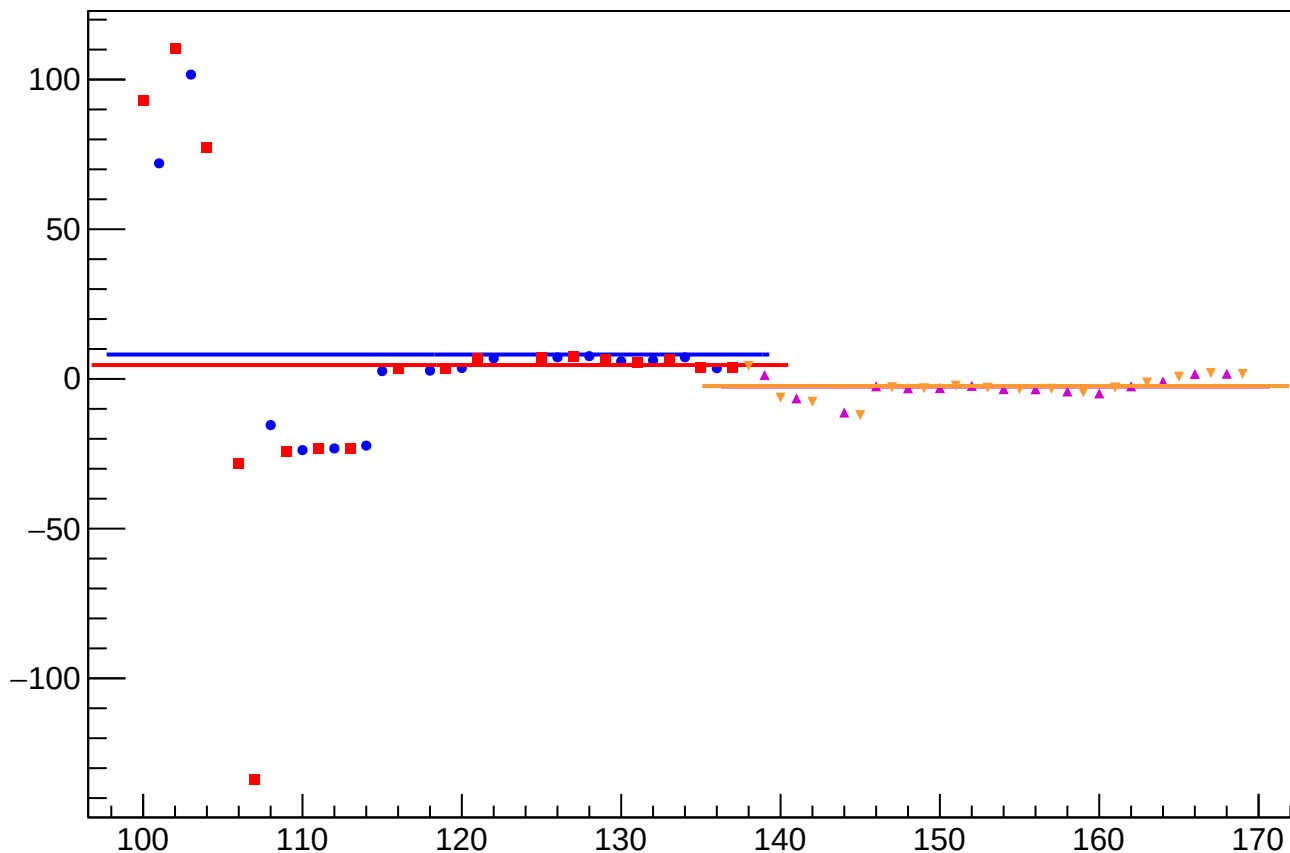
Right: 1.468 ± 0.570 χ^2/NDF : 120.9/33

In: 3.121 ± 0.426 χ^2/NDF : 126.5/30

Out: 3.353 ± 0.419 χ^2/NDF : 101.5/33

All: 3.239 ± 0.299 χ^2/NDF : 228.1/64

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 8.146+/-0.048 χ^2/NDF : 313350.7/15

Left Out: -2.351+/-0.022 χ^2/NDF : 26922.1/15

Right Out: 4.638+/-0.052 χ^2/NDF : 446805.7/17

Left In: -2.518+/-0.022 χ^2/NDF : 17809.2/14

Left: -2.434+/-0.016 χ^2/NDF : 44759.7/30

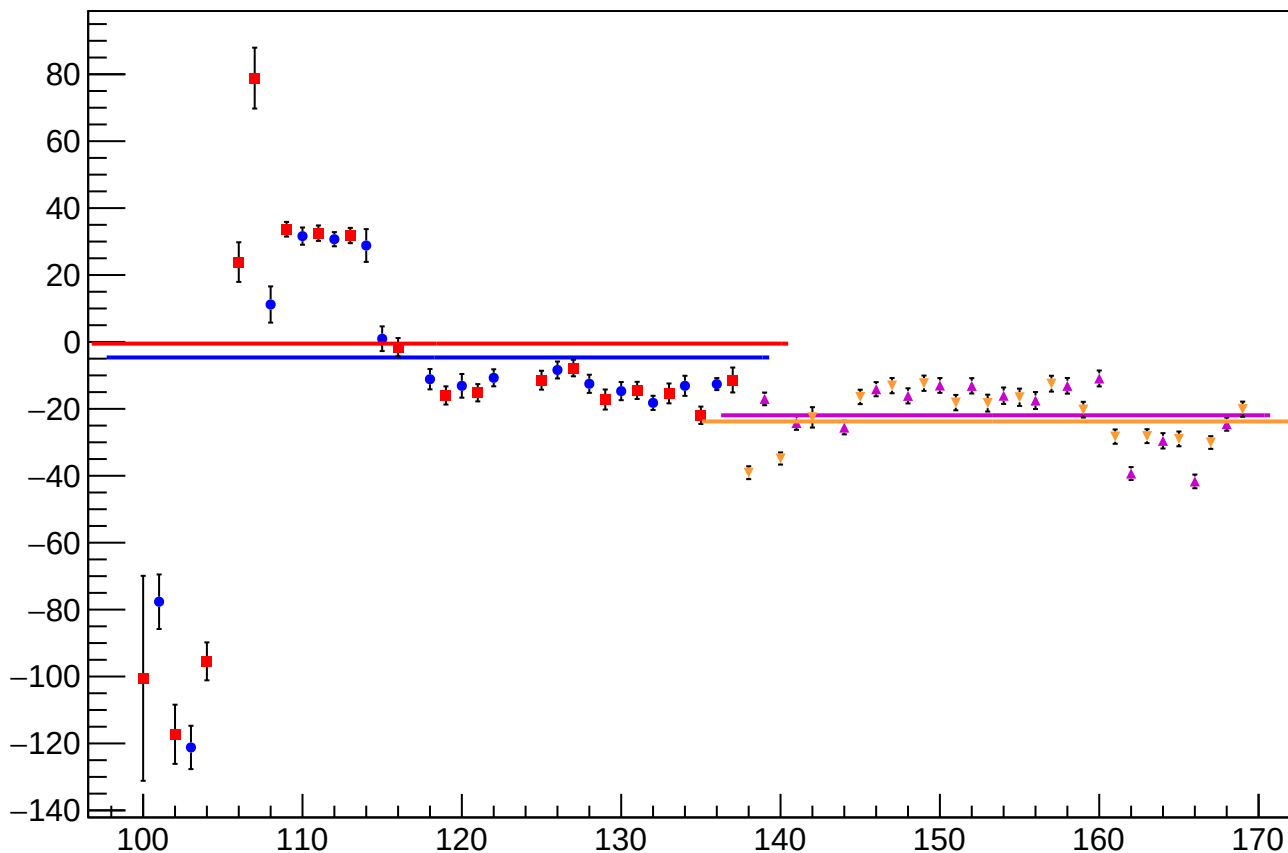
Right: 6.508+/-0.035 χ^2/NDF : 762611.1/33

In: -0.647+/-0.020 χ^2/NDF : 371235.0/30

Out: -1.266+/-0.020 χ^2/NDF : 489174.9/33

All: -0.955+/-0.014 χ^2/NDF : 860875.1/64

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.640 ± 0.712 $\chi^2/\text{NDF}: 1046.3/15$

Left Out: -23.767 ± 0.554 $\chi^2/\text{NDF}: 230.6/15$

Right Out: -0.505 ± 0.711 $\chi^2/\text{NDF}: 1457.8/17$

Left In: -21.922 ± 0.559 $\chi^2/\text{NDF}: 293.8/14$

Left: -22.853 ± 0.394 $\chi^2/\text{NDF}: 529.9/30$

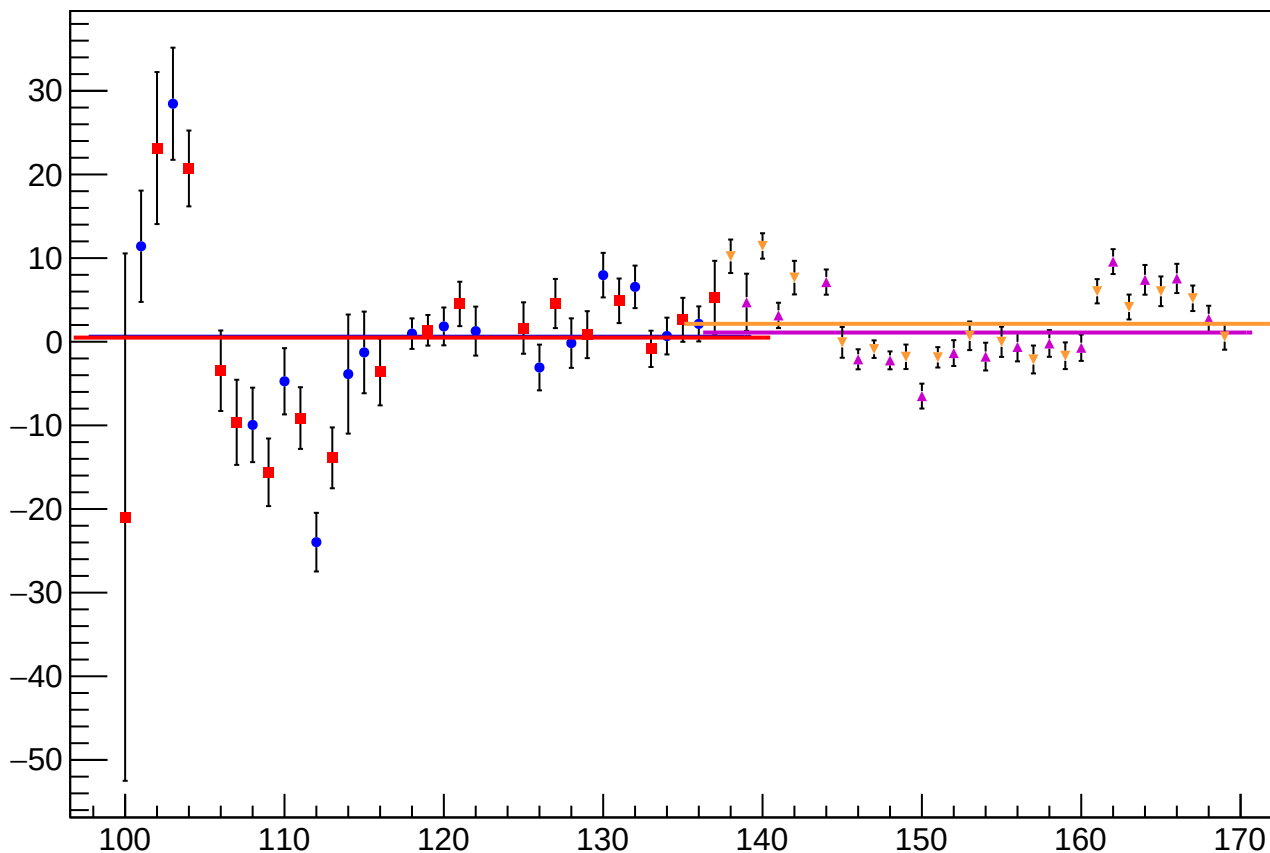
Right: -2.571 ± 0.503 $\chi^2/\text{NDF}: 2521.0/33$

In: -15.323 ± 0.440 $\chi^2/\text{NDF}: 1704.7/30$

Out: -14.973 ± 0.437 $\chi^2/\text{NDF}: 2354.5/33$

All: -15.147 ± 0.310 $\chi^2/\text{NDF}: 4059.4/64$

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.602 ± 0.727 χ^2/NDF : 92.9/15

Left Out: 2.142 ± 0.385 χ^2/NDF : 122.5/15

Right Out: 0.496 ± 0.755 χ^2/NDF : 80.2/17

Left In: 1.100 ± 0.395 χ^2/NDF : 130.2/14

Left: 1.635 ± 0.276 χ^2/NDF : 256.2/30

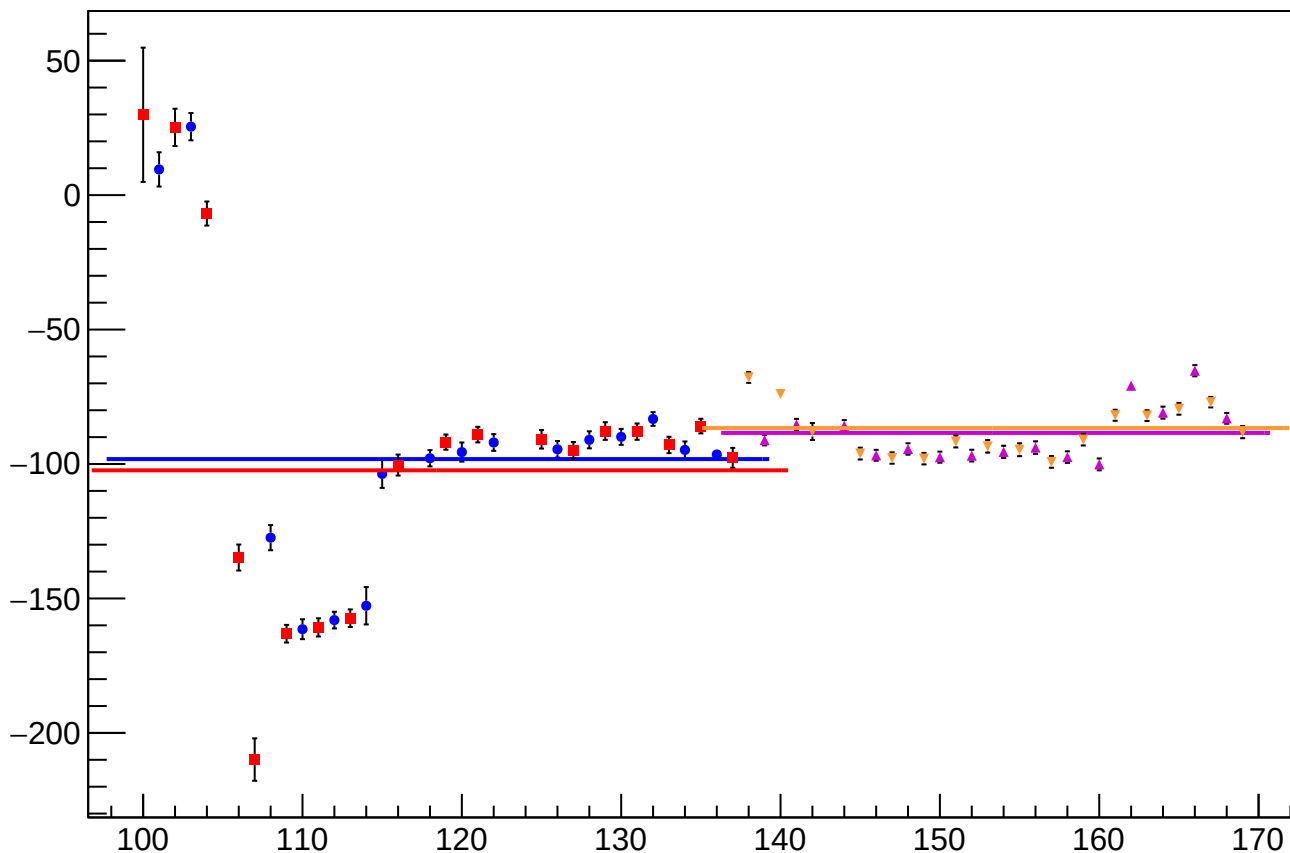
Right: 0.551 ± 0.524 χ^2/NDF : 173.0/33

In: 0.986 ± 0.347 χ^2/NDF : 223.4/30

Out: 1.803 ± 0.343 χ^2/NDF : 206.4/33

All: 1.400 ± 0.244 χ^2/NDF : 432.6/64

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Left: -87.524 ± 0.384 $\chi^2/\text{NDF}: 677.7/30$

Right: -100.197 ± 0.583 $\chi^2/\text{NDF}: 3830.3/33$

In: -91.451 ± 0.452 $\chi^2/\text{NDF}: 2154.6/30$

Out: -91.255 ± 0.454 $\chi^2/\text{NDF}: 2682.9/33$

All: -91.353 ± 0.320 $\chi^2/\text{NDF}: 4837.6/64$

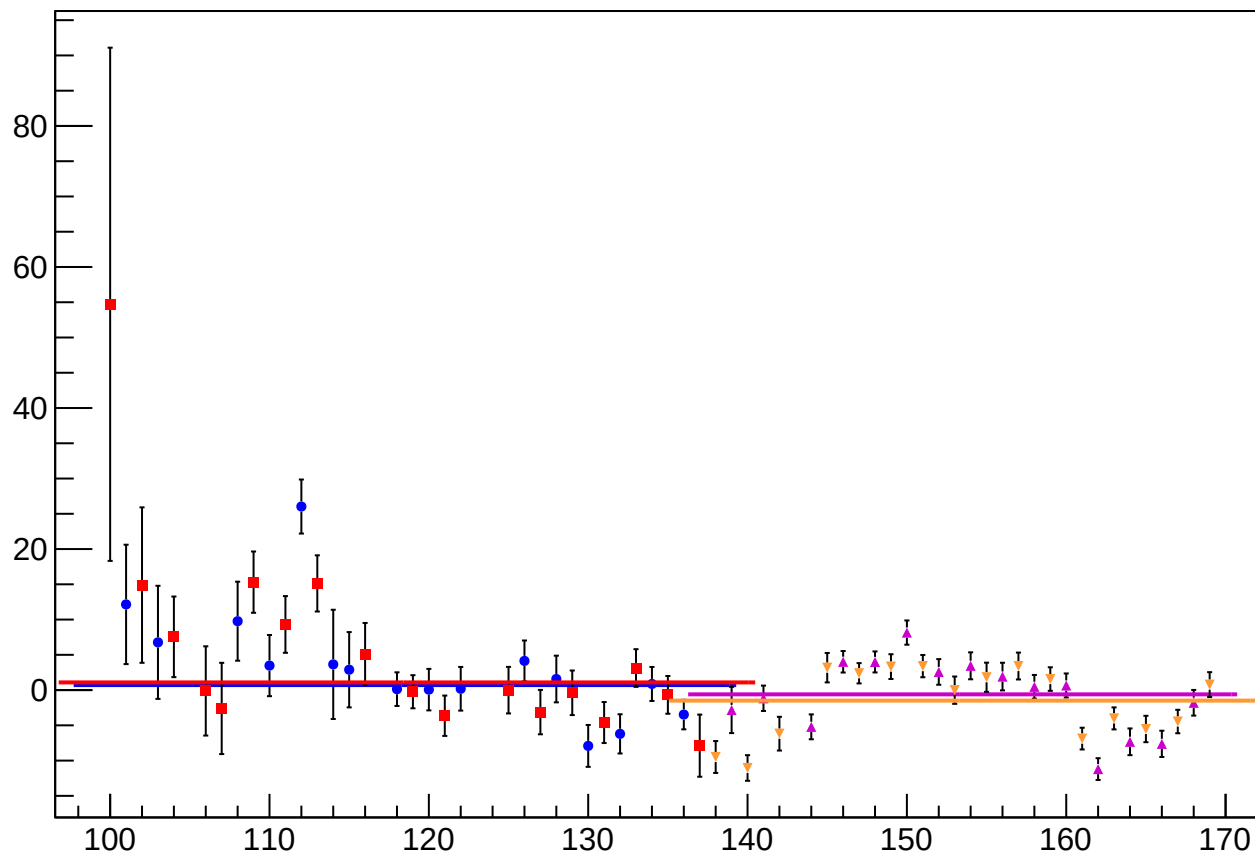
Right In: -98.168 ± 0.813 $\chi^2/\text{NDF}: 1699.9/15$

Left Out: -86.621 ± 0.541 $\chi^2/\text{NDF}: 316.3/15$

Right Out: -102.349 ± 0.837 $\chi^2/\text{NDF}: 2117.5/17$

Left In: -88.439 ± 0.544 $\chi^2/\text{NDF}: 355.7/14$

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.711 ± 0.821 $\chi^2/\text{NDF}: 69.6/15$

Left Out: -1.492 ± 0.445 $\chi^2/\text{NDF}: 110.8/15$

Right Out: 1.088 ± 0.856 $\chi^2/\text{NDF}: 47.7/17$

Left In: -0.606 ± 0.458 $\chi^2/\text{NDF}: 136.5/14$

Left: -1.062 ± 0.319 $\chi^2/\text{NDF}: 249.2/30$

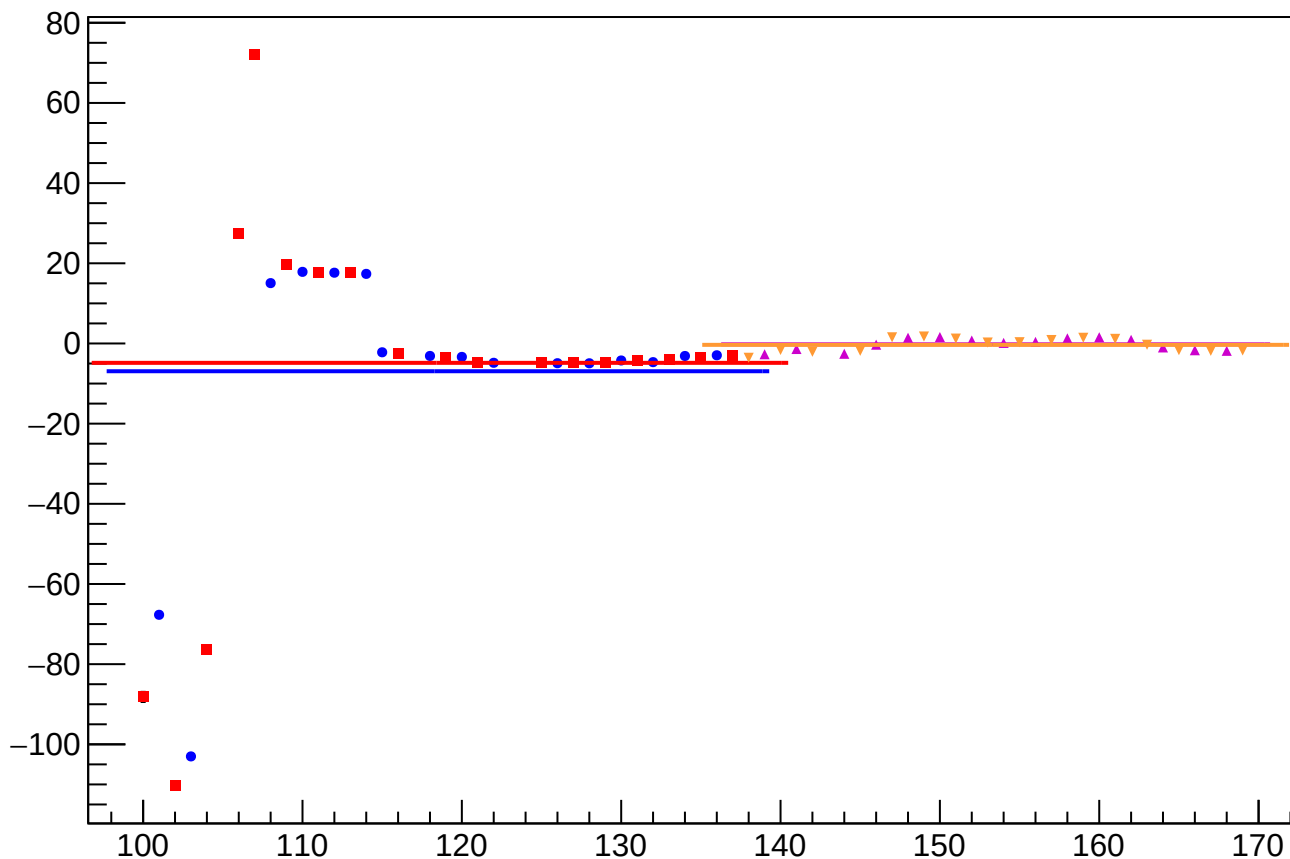
Right: 0.892 ± 0.593 $\chi^2/\text{NDF}: 117.4/33$

In: -0.293 ± 0.400 $\chi^2/\text{NDF}: 208.1/30$

Out: -0.943 ± 0.395 $\chi^2/\text{NDF}: 165.6/33$

All: -0.622 ± 0.281 $\chi^2/\text{NDF}: 375.0/64$

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.927 ± 0.049 $\chi^2/\text{NDF}: 265187.0/15$

Left Out: -0.344 ± 0.020 $\chi^2/\text{NDF}: 6022.6/15$

Right Out: -4.833 ± 0.053 $\chi^2/\text{NDF}: 339363.3/17$

Left In: -0.211 ± 0.020 $\chi^2/\text{NDF}: 5232.7/14$

Left: -0.278 ± 0.014 $\chi^2/\text{NDF}: 11276.7/30$

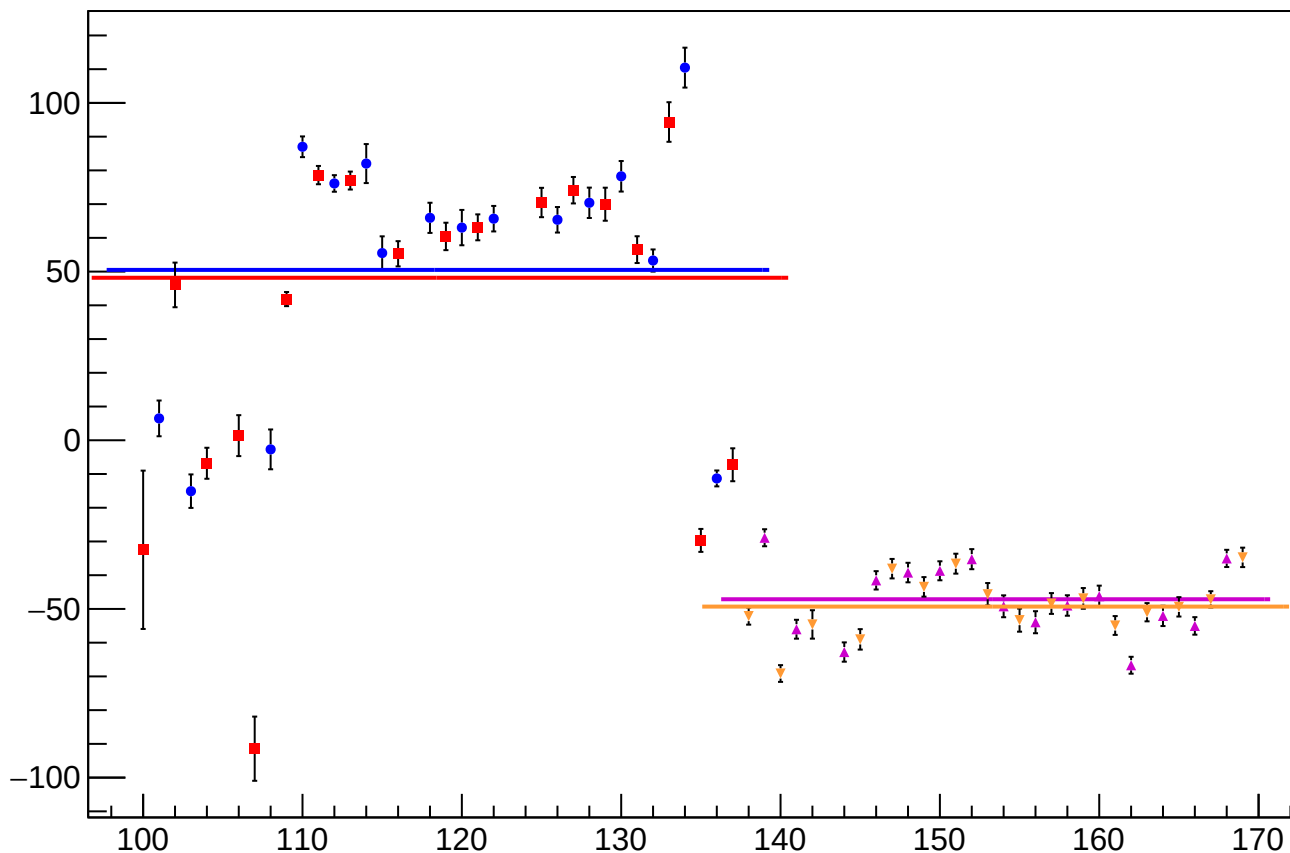
Right: -5.968 ± 0.036 $\chi^2/\text{NDF}: 605403.2/33$

In: -1.216 ± 0.019 $\chi^2/\text{NDF}: 286707.3/30$

Out: -0.918 ± 0.019 $\chi^2/\text{NDF}: 351688.2/33$

All: -1.068 ± 0.013 $\chi^2/\text{NDF}: 638520.0/64$

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 50.503 ± 0.965 χ^2/NDF : 1503.6/15

Left Out: -49.304 ± 0.725 χ^2/NDF : 149.0/15

Right Out: 48.172 ± 0.914 χ^2/NDF : 1519.5/17

Left In: -47.126 ± 0.731 χ^2/NDF : 229.5/14

Left: -48.224 ± 0.515 χ^2/NDF : 383.0/30

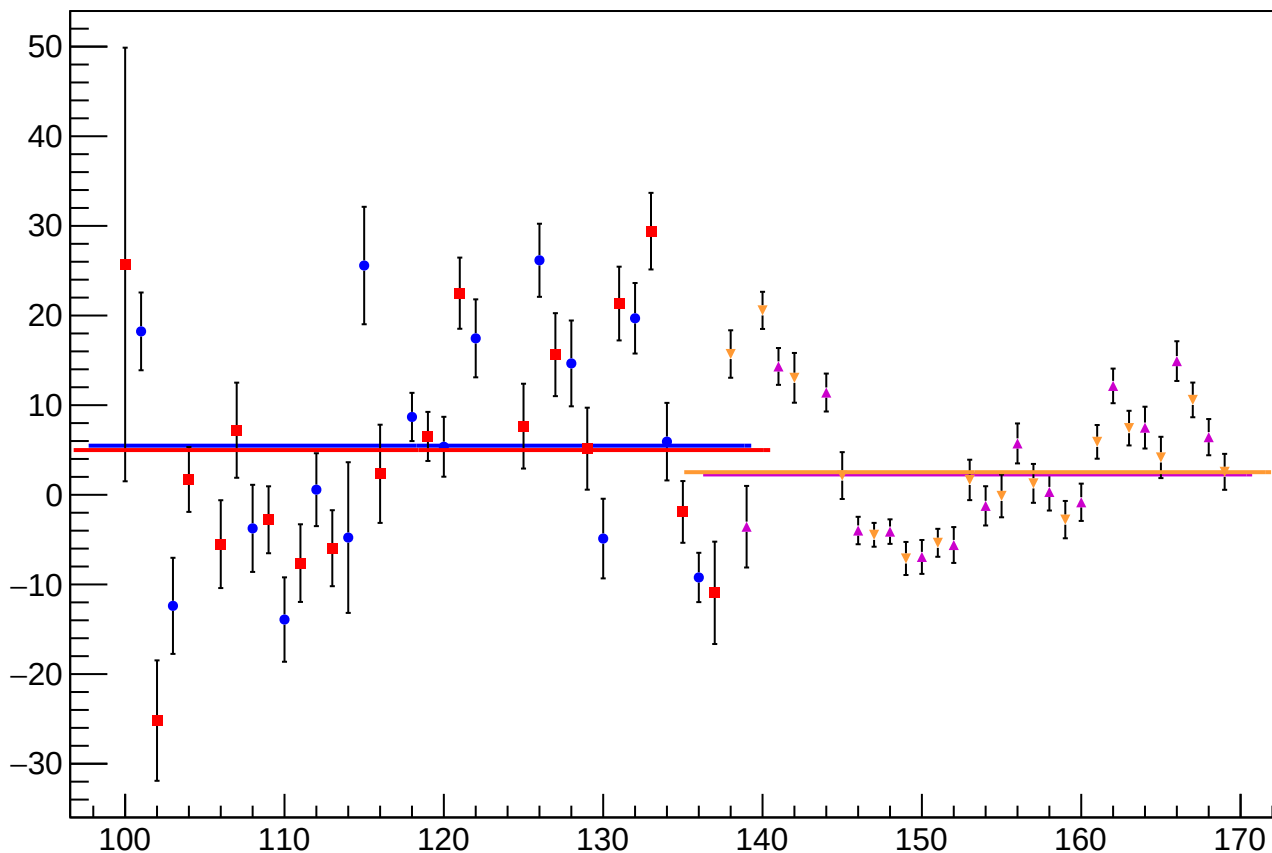
Right: 49.274 ± 0.664 χ^2/NDF : 3026.2/33

In: -11.538 ± 0.583 χ^2/NDF : 8233.0/30

Out: -11.675 ± 0.568 χ^2/NDF : 8647.1/33

All: -11.608 ± 0.407 χ^2/NDF : 16880.1/64

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 5.481 $\pm$ 1.021 χ^2 /NDF: 138.2/15

Left Out: 2.524 $\pm$ 0.500 χ^2 /NDF:231.2/15

Right Out: 4.992 $\pm$ 1.023 χ^2 /NDF: 131.8/17

Left In: 2.270 $\pm$ 0.515 χ^2 /NDF:208.3/14

Left: 2.401 $\pm$ 0.359 χ^2 /NDF: 439.6/30

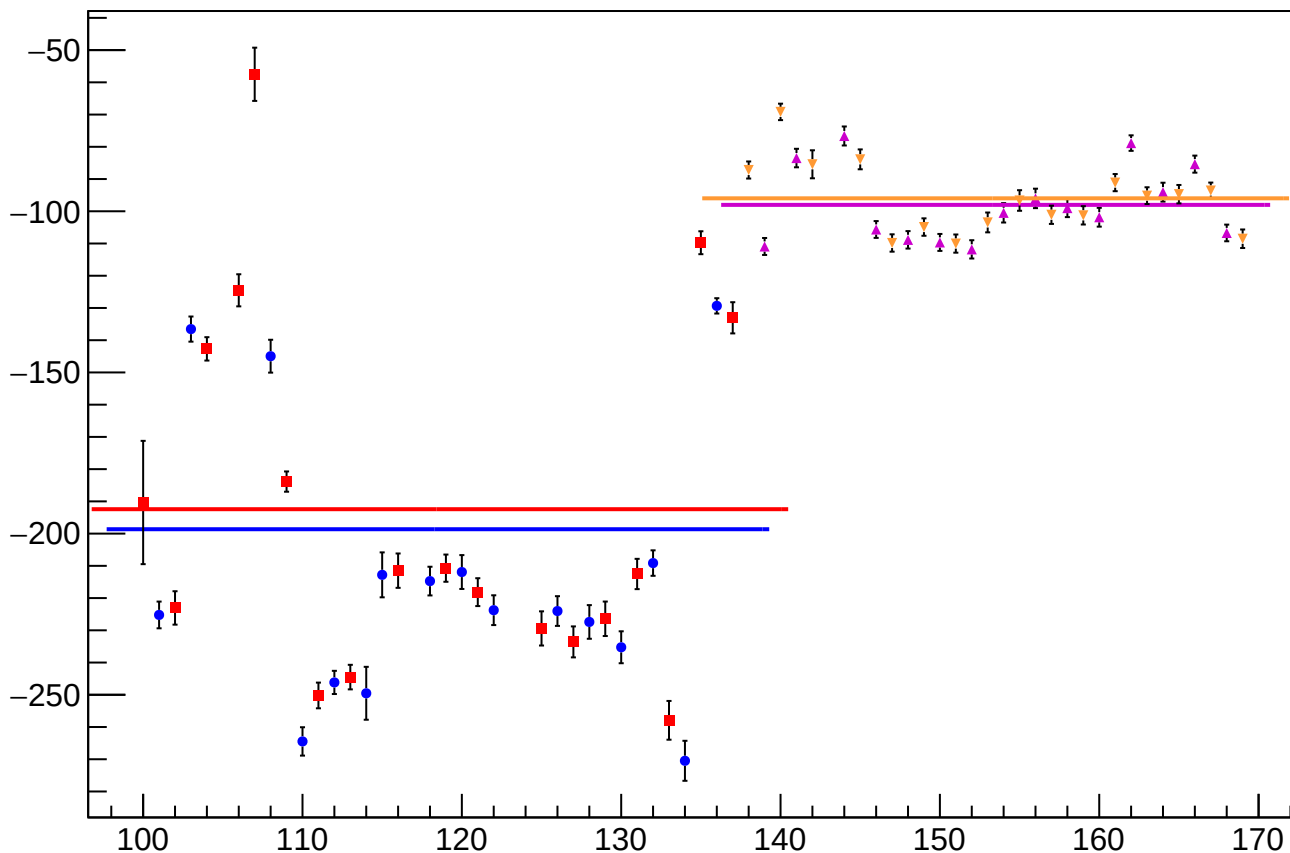
Right: 5.236 $\pm$ 0.723 χ^2 /NDF: 270.1/33

In: 2.921 $\pm$ 0.460 χ^2 /NDF:354.4/30

Out: 3.001 $\pm$ 0.449 χ^2 /NDF:367.7/33

All: 2.962 $\pm$ 0.321 χ^2 /NDF: 722.1/64

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -198.641 ± 1.083 χ^2/NDF : 2002.3/15

Left Out: -95.984 ± 0.707 χ^2/NDF : 241.2/15

Right Out: -192.426 ± 1.080 χ^2/NDF : 2139.0/17

Left In: -98.017 ± 0.711 χ^2/NDF : 272.5/14

Left: -96.994 ± 0.501 χ^2/NDF : 517.8/30

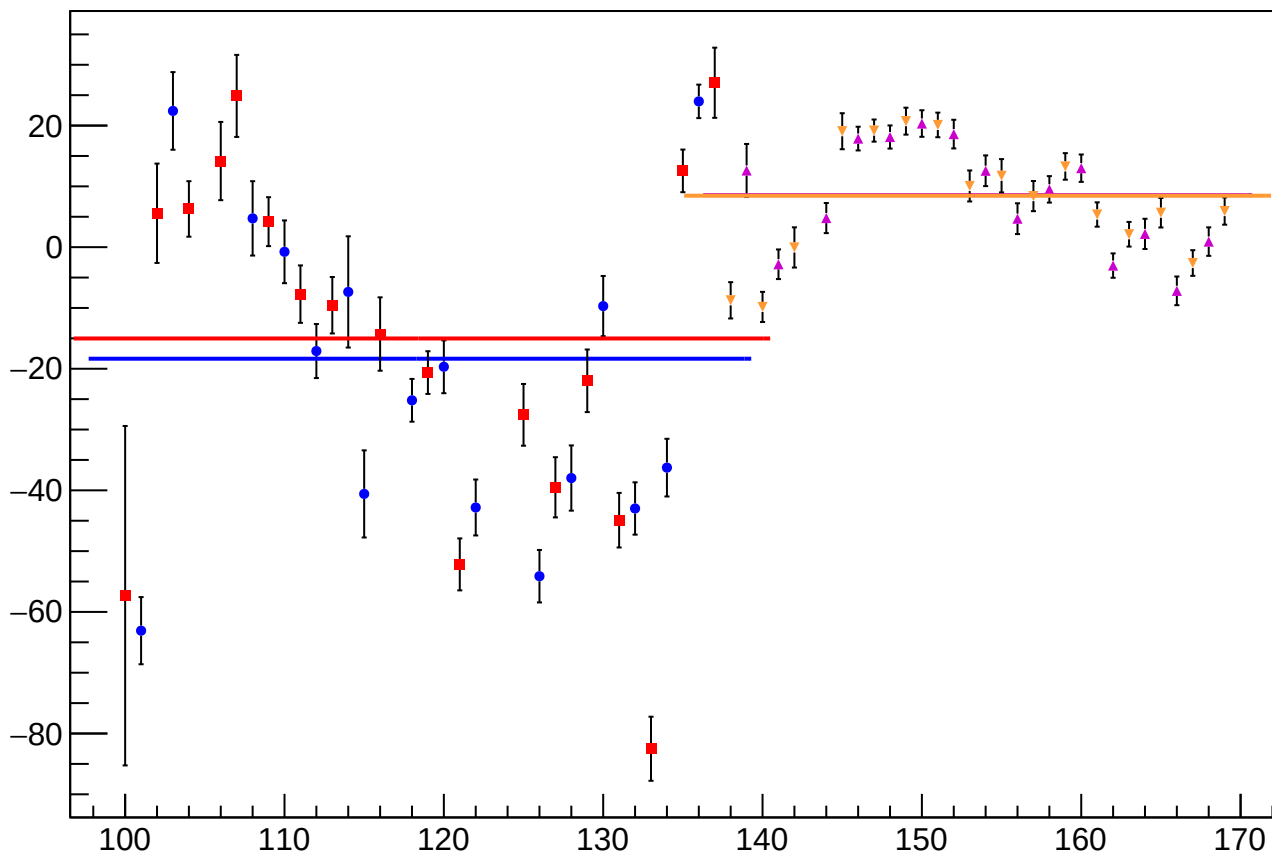
Right: -195.523 ± 0.765 χ^2/NDF : 4157.8/33

In: -128.289 ± 0.594 χ^2/NDF : 8306.0/30

Out: -124.902 ± 0.591 χ^2/NDF : 7966.1/33

All: -126.587 ± 0.419 χ^2/NDF : 16288.4/64

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -18.348 ± 1.159 χ^2/NDF : 543.9/15

Left Out: 8.464 ± 0.580 χ^2/NDF : 254.3/15

Right Out: -15.021 ± 1.162 χ^2/NDF : 546.4/17

Left In: 8.559 ± 0.597 χ^2/NDF : 224.2/14

Left: 8.510 ± 0.416 χ^2/NDF : 478.6/30

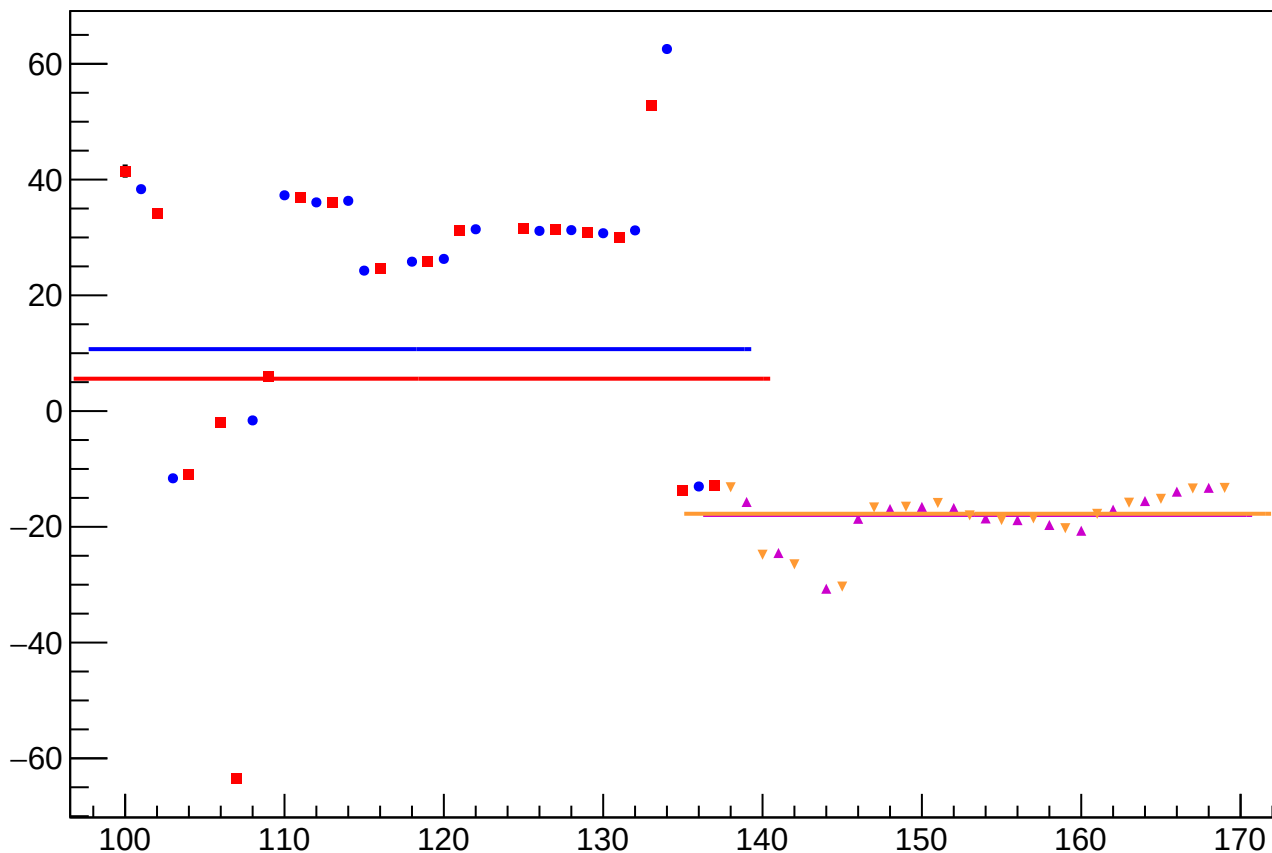
Right: -16.688 ± 0.821 χ^2/NDF : 1094.5/33

In: 2.920 ± 0.531 χ^2/NDF : 1193.9/30

Out: 3.781 ± 0.519 χ^2/NDF : 1127.9/33

All: 3.360 ± 0.371 χ^2/NDF : 2323.2/64

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 10.704+/-0.063 χ^2/NDF : 164860.8/15

Left Out: -17.741+/-0.026 χ^2/NDF : 25585.2/15

Right Out: 5.595+/-0.064 χ^2/NDF : 154966.4/17

Left In: -17.954+/-0.027 χ^2/NDF : 19458.7/14

Left: -17.847+/-0.019 χ^2/NDF : 45076.1/30

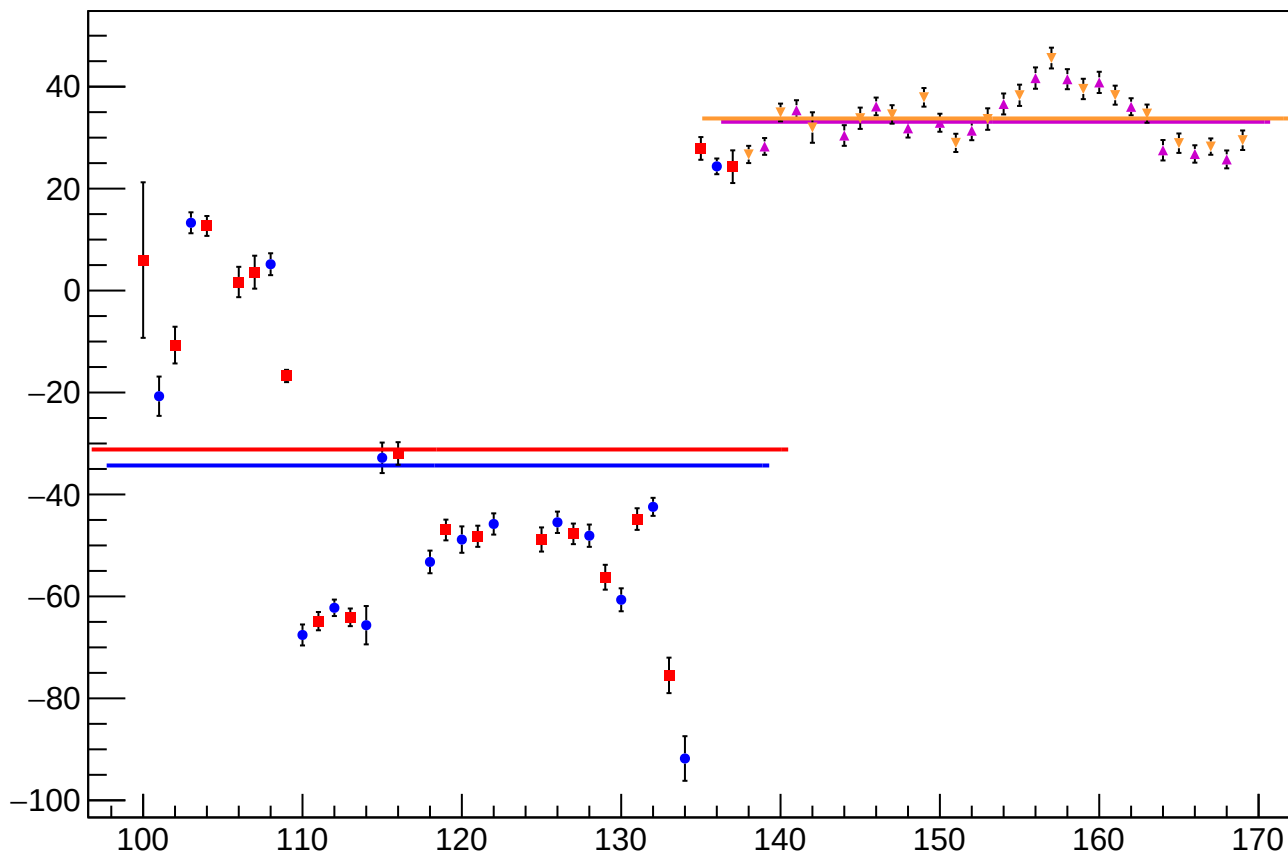
Right: 8.178+/-0.045 χ^2/NDF : 323087.7/33

In: -13.619+/-0.024 χ^2/NDF : 360482.3/30

Out: -14.311+/-0.024 χ^2/NDF : 295335.0/33

All: -13.966+/-0.017 χ^2/NDF : 656218.3/64

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -34.315 ± 0.548 χ^2/NDF : 3500.2/15

Left Out: 33.763 ± 0.475 χ^2/NDF : 107.3/15

Right Out: -31.175 ± 0.516 χ^2/NDF : 3200.4/17

Left In: 33.117 ± 0.480 χ^2/NDF : 109.9/14

Left: 33.443 ± 0.338 χ^2/NDF : 218.1/30

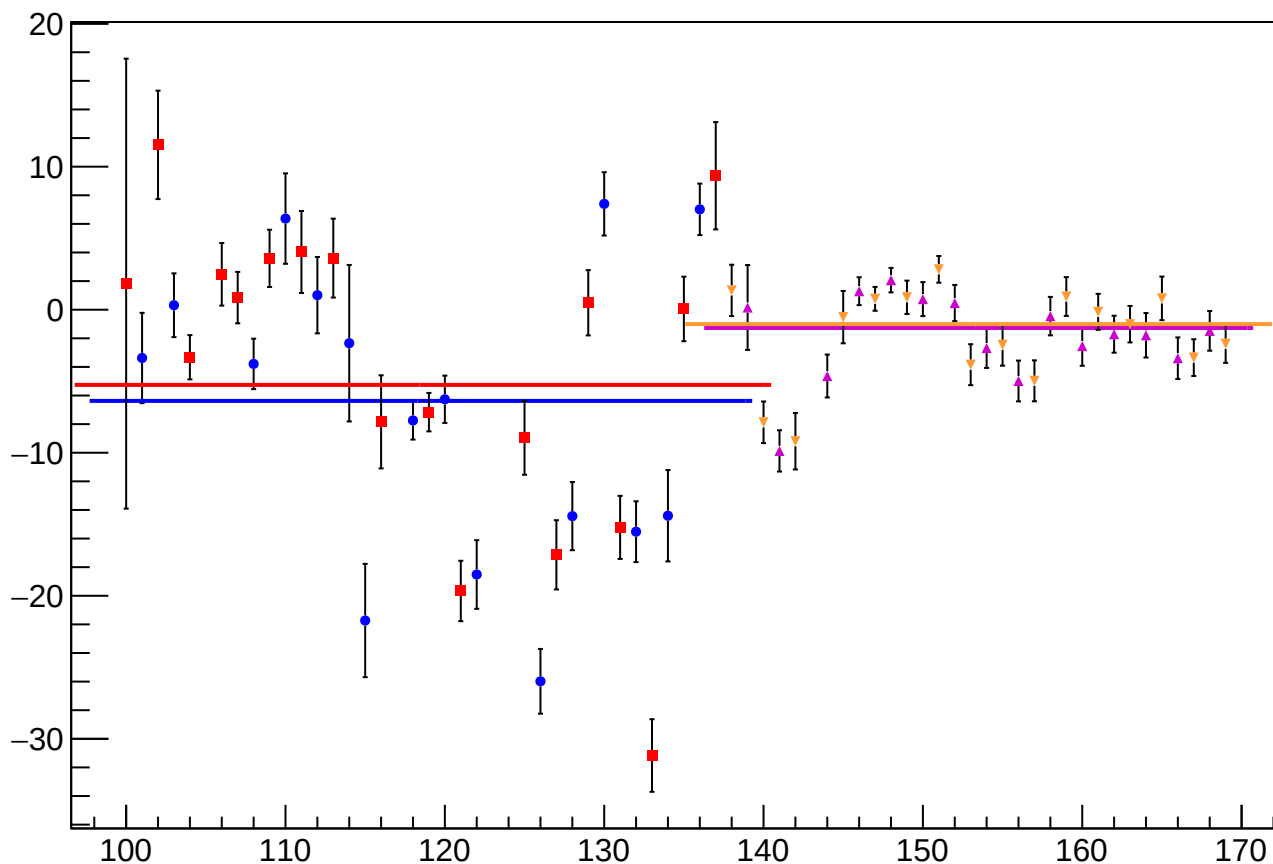
Right: -32.651 ± 0.375 χ^2/NDF : 6718.0/33

In: 3.831 ± 0.361 χ^2/NDF : 12182.6/30

Out: 3.930 ± 0.350 χ^2/NDF : 11878.3/33

All: 3.882 ± 0.251 χ^2/NDF : 24060.9/64

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -6.375 ± 0.554 χ^2/NDF : 283.6/15

Left Out: -1.007 ± 0.325 χ^2/NDF : 86.0/15

Right Out: -5.256 ± 0.533 χ^2/NDF : 312.9/17

Left In: -1.277 ± 0.336 χ^2/NDF : 79.1/14

Left: -1.138 ± 0.233 χ^2/NDF : 165.4/30

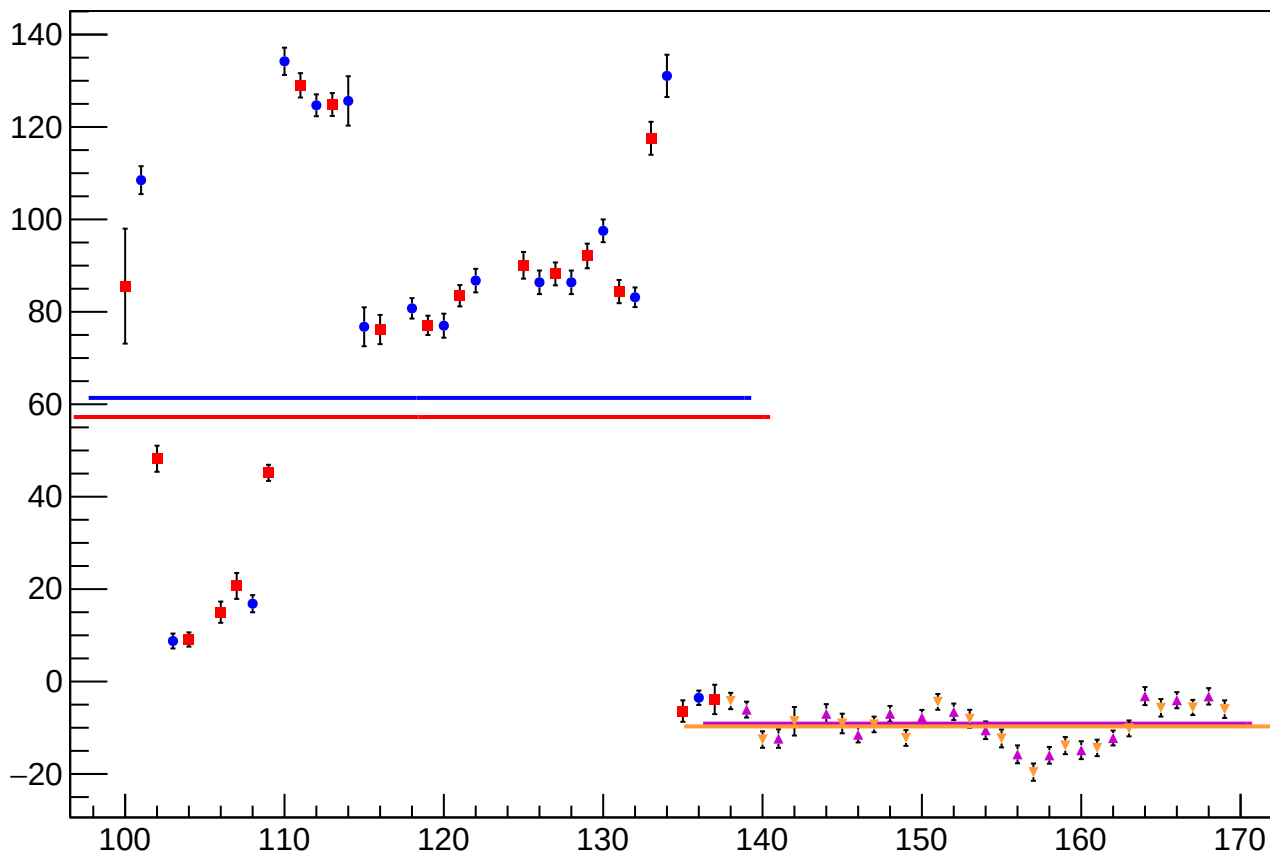
Right: -5.794 ± 0.384 χ^2/NDF : 598.6/33

In: -2.647 ± 0.287 χ^2/NDF : 424.7/30

Out: -2.158 ± 0.277 χ^2/NDF : 445.4/33

All: -2.394 ± 0.199 χ^2/NDF : 871.6/64

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 61.377 ± 0.594 χ^2/NDF : 6066.8/15

Left Out: -9.711 ± 0.462 χ^2/NDF : 81.3/15

Right Out: 57.240 ± 0.580 χ^2/NDF : 5267.5/17

Left In: -9.108 ± 0.466 χ^2/NDF : 81.2/14

Left: -9.412 ± 0.328 χ^2/NDF : 163.4/30

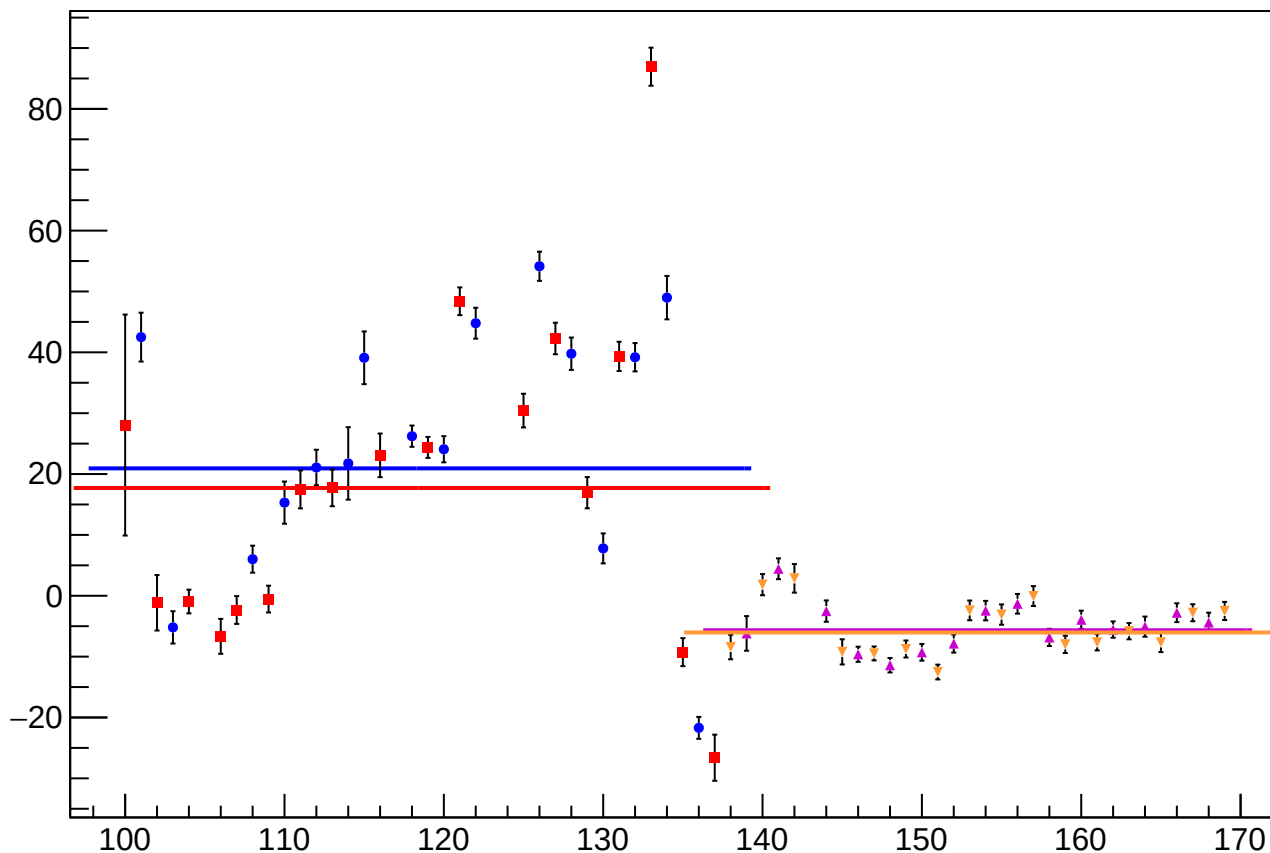
Right: 59.259 ± 0.415 χ^2/NDF : 11359.0/33

In: 17.695 ± 0.366 χ^2/NDF : 14865.2/30

Out: 16.277 ± 0.361 χ^2/NDF : 13496.0/33

All: 16.976 ± 0.257 χ^2/NDF : 28368.8/64

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 20.931+/-0.640 χ^2/NDF : 1245.4/15

Left Out: -6.033+/-0.377 χ^2/NDF : 116.9/15

Right Out: 17.711+/-0.618 χ^2/NDF : 1481.9/17

Left In: -5.670+/-0.390 χ^2/NDF : 98.2/14

Left: -5.858+/-0.271 χ^2/NDF : 215.5/30

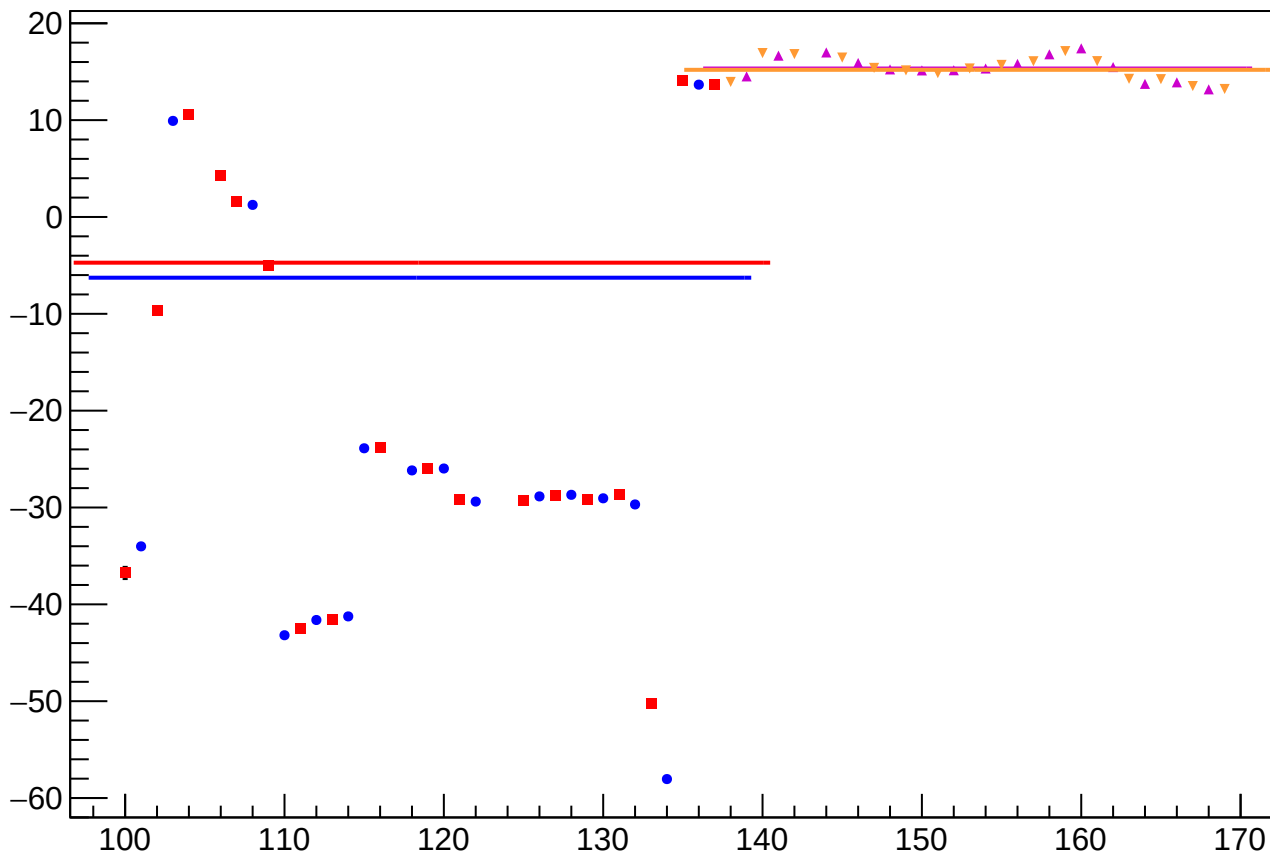
Right: 19.265+/-0.445 χ^2/NDF : 2740.4/33

In: 1.534+/-0.333 χ^2/NDF : 2602.7/30

Out: 0.417+/-0.322 χ^2/NDF : 2673.5/33

All: 0.957+/-0.232 χ^2/NDF : 5282.1/64

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -6.271 ± 0.033 $\chi^2/\text{NDF}: 410461.0/15$

Left Out: 15.195 ± 0.017 $\chi^2/\text{NDF}: 4691.5/15$

Right Out: -4.720 ± 0.034 $\chi^2/\text{NDF}: 306663.6/17$

Left In: 15.329 ± 0.017 $\chi^2/\text{NDF}: 4495.6/14$

Left: 15.262 ± 0.012 $\chi^2/\text{NDF}: 9217.3/30$

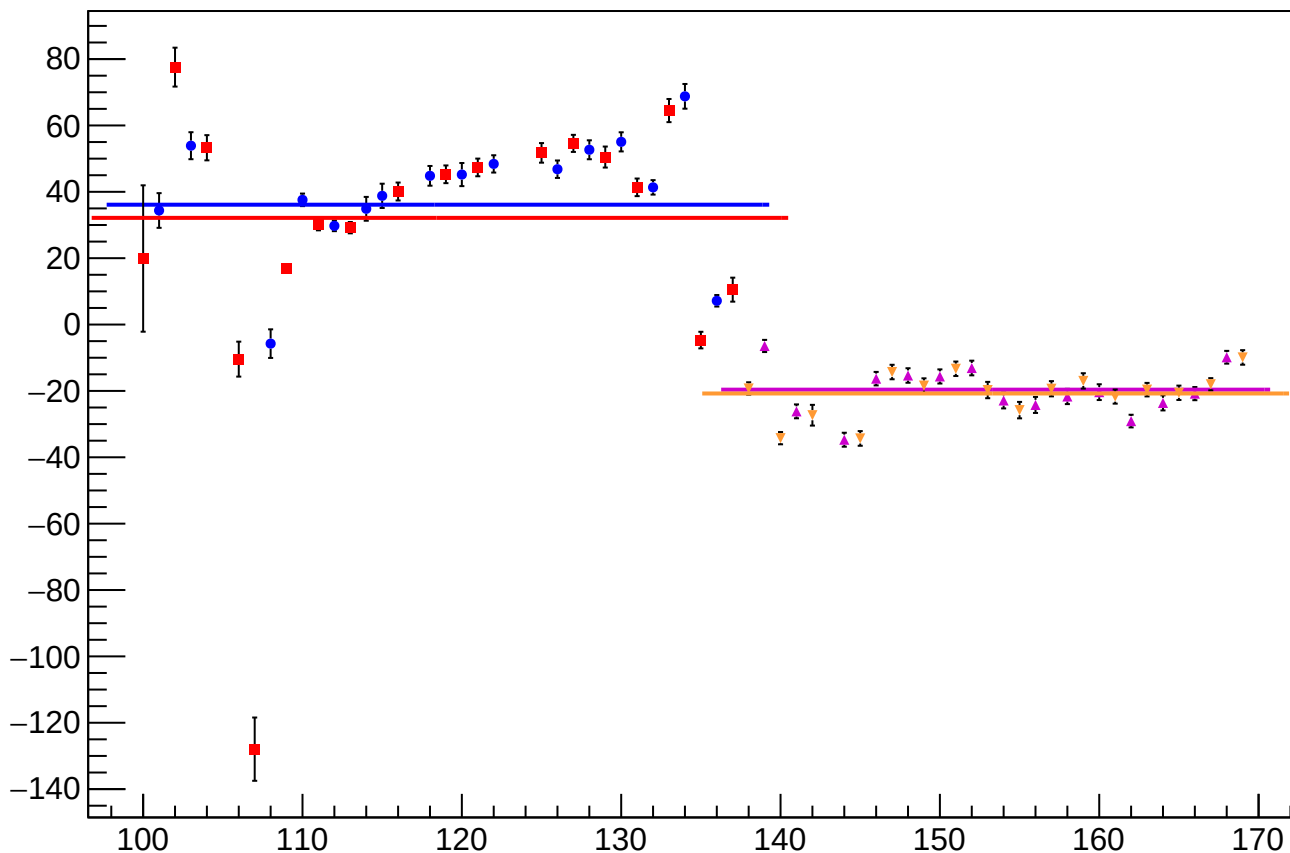
Right: -5.502 ± 0.024 $\chi^2/\text{NDF}: 718193.1/33$

In: 10.732 ± 0.015 $\chi^2/\text{NDF}: 743868.9/30$

Out: 11.060 ± 0.015 $\chi^2/\text{NDF}: 588254.9/33$

All: 10.897 ± 0.011 $\chi^2/\text{NDF}: 1332351.1/64$

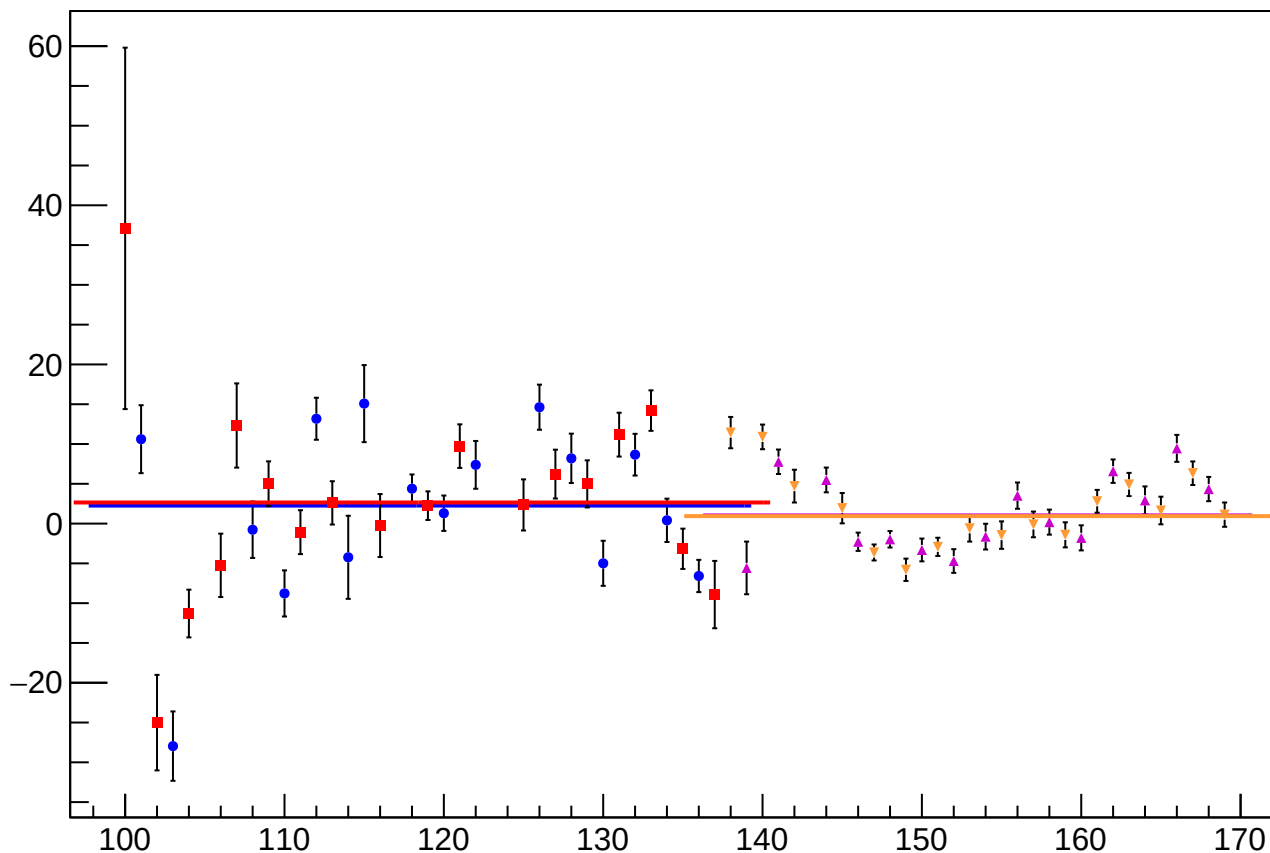
reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: 36.118 ± 0.656 $\chi^2/\text{NDF}: 622.8/15$
 Left Out: -20.776 ± 0.543 $\chi^2/\text{NDF}: 151.7/15$
 Right Out: 32.150 ± 0.631 $\chi^2/\text{NDF}: 1114.6/17$
 Left In: -19.621 ± 0.548 $\chi^2/\text{NDF}: 191.6/14$

Left: -20.203 ± 0.386 $\chi^2/\text{NDF}: 345.5/30$
 Right: 34.055 ± 0.455 $\chi^2/\text{NDF}: 1756.4/33$
 In: 3.258 ± 0.421 $\chi^2/\text{NDF}: 5065.1/30$
 Out: 1.754 ± 0.411 $\chi^2/\text{NDF}: 5311.5/33$
 All: 2.490 ± 0.294 $\chi^2/\text{NDF}: 10383.2/64$

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 2.265 ± 0.701 $\chi^2/\text{NDF}: 152.0/15$

Left Out: 0.937 ± 0.375 $\chi^2/\text{NDF}: 156.5/15$

Right Out: 2.651 ± 0.715 $\chi^2/\text{NDF}: 107.2/17$

Left In: 1.029 ± 0.387 $\chi^2/\text{NDF}: 125.5/14$

Left: 0.982 ± 0.269 $\chi^2/\text{NDF}: 282.0/30$

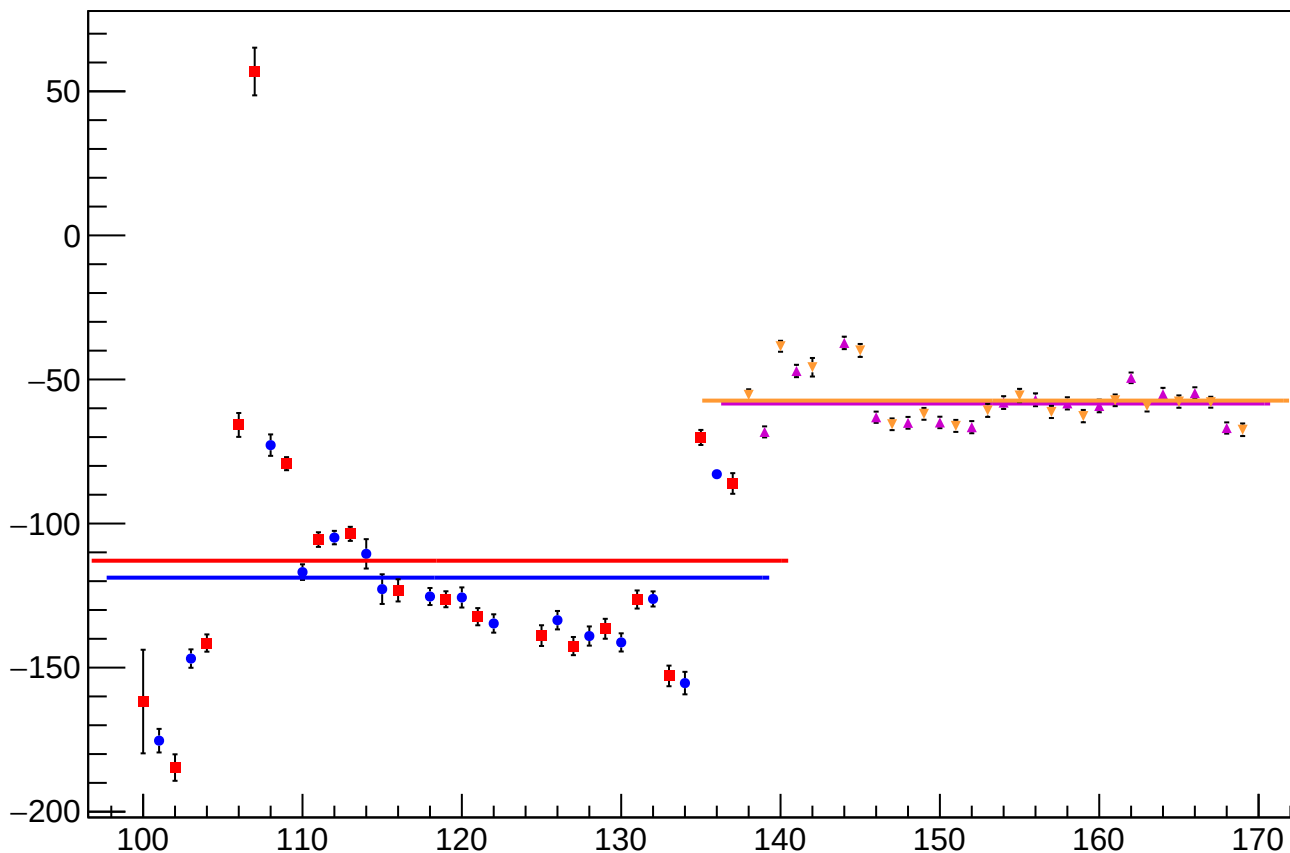
Right: 2.454 ± 0.501 $\chi^2/\text{NDF}: 259.4/33$

In: 1.318 ± 0.339 $\chi^2/\text{NDF}: 279.9/30$

Out: 1.307 ± 0.332 $\chi^2/\text{NDF}: 268.2/33$

All: 1.312 ± 0.237 $\chi^2/\text{NDF}: 548.1/64$

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -118.778 ± 0.757 $\chi^2/\text{NDF}: 1119.5/15$

Left Out: -57.334 ± 0.529 $\chi^2/\text{NDF}: 245.8/15$

Right Out: -112.899 ± 0.761 $\chi^2/\text{NDF}: 1862.9/17$

Left In: -58.343 ± 0.533 $\chi^2/\text{NDF}: 239.6/14$

Left: -57.835 ± 0.375 $\chi^2/\text{NDF}: 487.2/30$

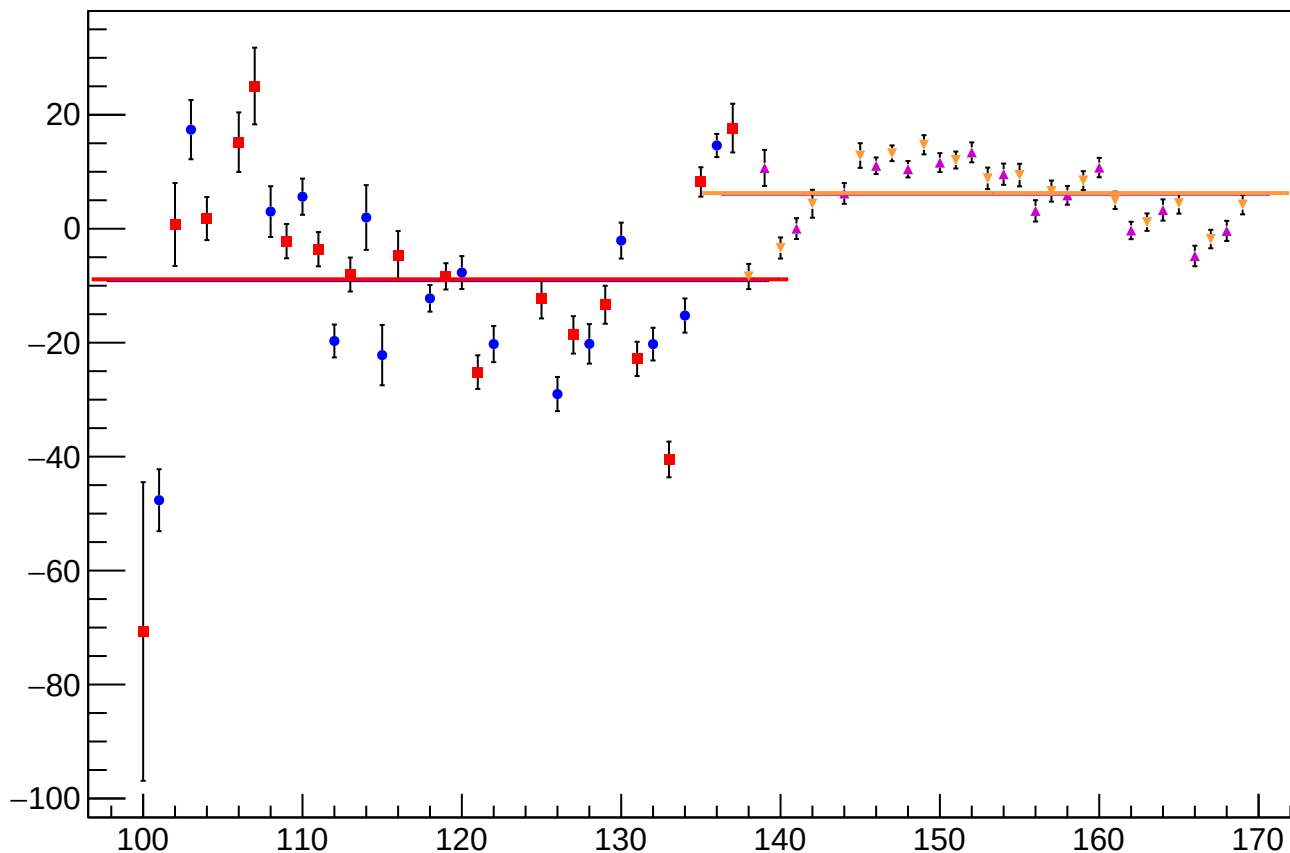
Right: -115.855 ± 0.537 $\chi^2/\text{NDF}: 3012.4/33$

In: -78.360 ± 0.436 $\chi^2/\text{NDF}: 5623.7/30$

Out: -75.448 ± 0.434 $\chi^2/\text{NDF}: 5702.4/33$

All: -76.900 ± 0.308 $\chi^2/\text{NDF}: 11348.5/64$

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -9.022 ± 0.796 χ^2/NDF : 358.0/15

Left Out: 6.258 ± 0.435 χ^2/NDF : 192.2/15

Right Out: -8.878 ± 0.810 χ^2/NDF : 318.7/17

Left In: 6.135 ± 0.448 χ^2/NDF : 145.3/14

Left: 6.198 ± 0.312 χ^2/NDF : 337.6/30

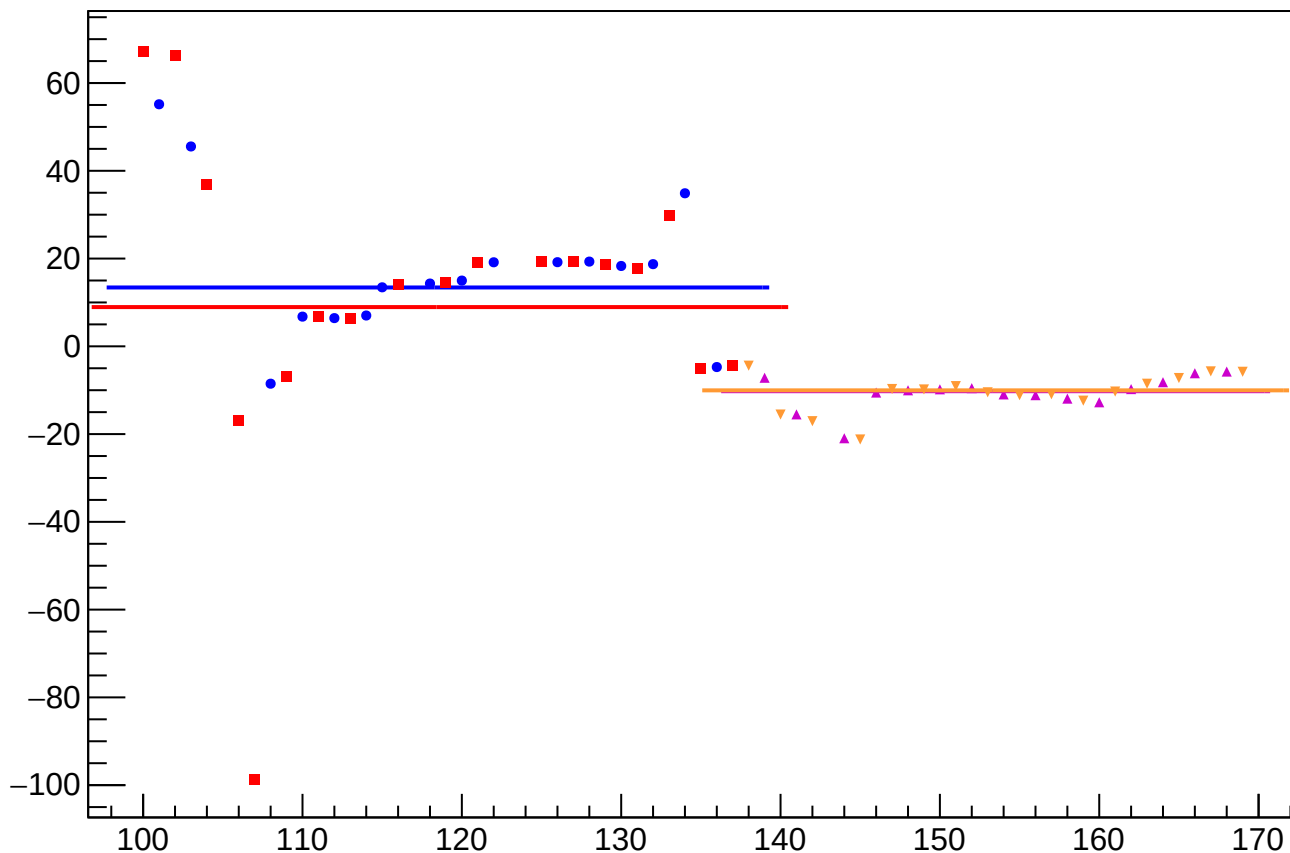
Right: -8.951 ± 0.568 χ^2/NDF : 676.8/33

In: 2.480 ± 0.391 χ^2/NDF : 778.7/30

Out: 2.872 ± 0.383 χ^2/NDF : 781.7/33

All: 2.680 ± 0.274 χ^2/NDF : 1560.9/64

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: 13.412 $\pm$ 0.045 χ^2 /NDF: 183707.4/15

Left Out: -10.034 $\pm$ 0.020 χ^2 /NDF: 38593.9/15

Right Out: 8.943 $\pm$ 0.047 χ^2 /NDF: 291126.5/17

Left In: -10.228 $\pm$ 0.020 χ^2 /NDF: 27572.6/14

Left: -10.131 $\pm$ 0.014 χ^2 /NDF: 66214.1/30

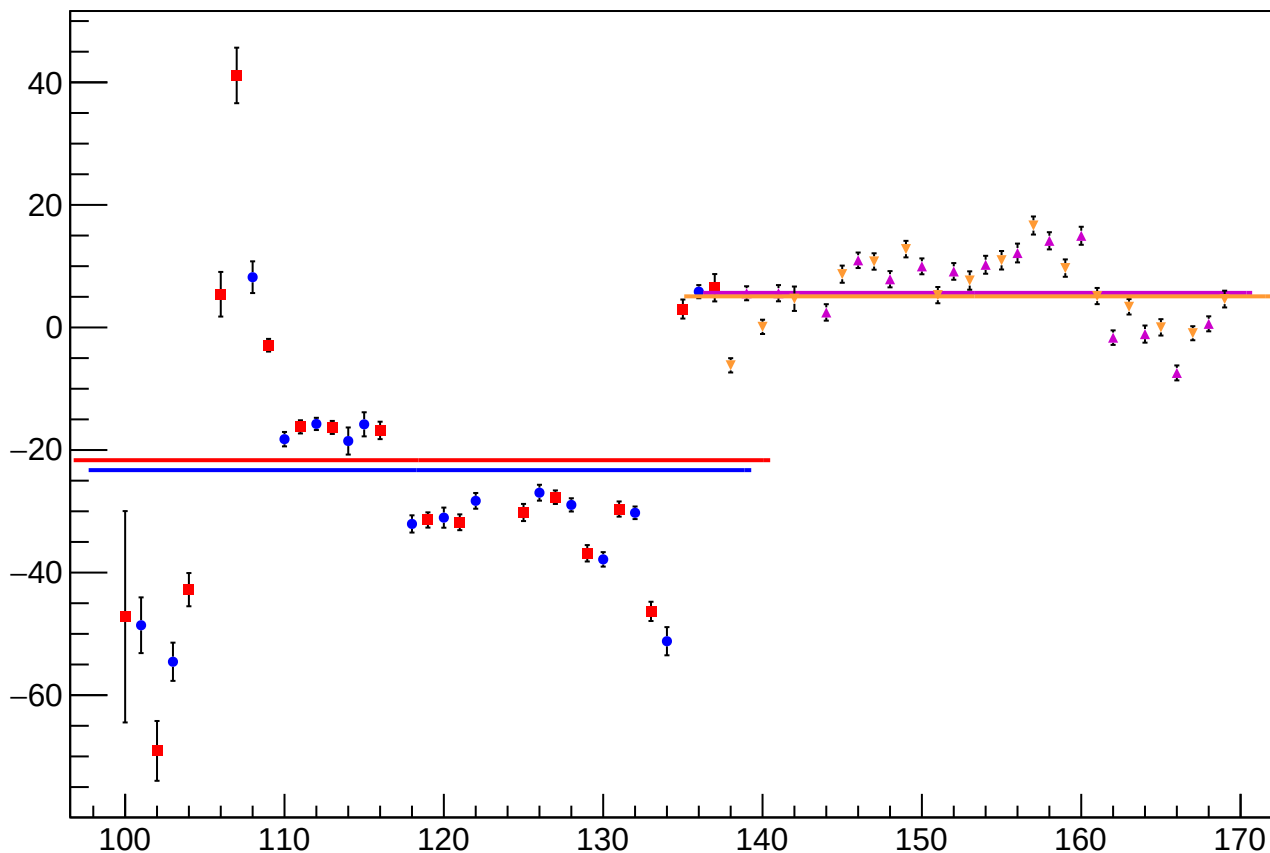
Right: 11.280 $\pm$ 0.033 χ^2 /NDF: 479481.6/33

In: -6.405 $\pm$ 0.018 χ^2 /NDF: 439748.7/30

Out: -7.222 $\pm$ 0.018 χ^2 /NDF: 466266.4/33

All: -6.813 $\pm$ 0.013 χ^2 /NDF: 907021.8/64

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -23.281 ± 0.350 χ^2/NDF : 1567.9/15

Left Out: 5.077 ± 0.337 χ^2/NDF : 302.9/15

Right Out: -21.660 ± 0.347 χ^2/NDF : 1813.6/17

Left In: 5.643 ± 0.340 χ^2/NDF : 341.3/14

Left: 5.358 ± 0.239 χ^2/NDF : 645.6/30

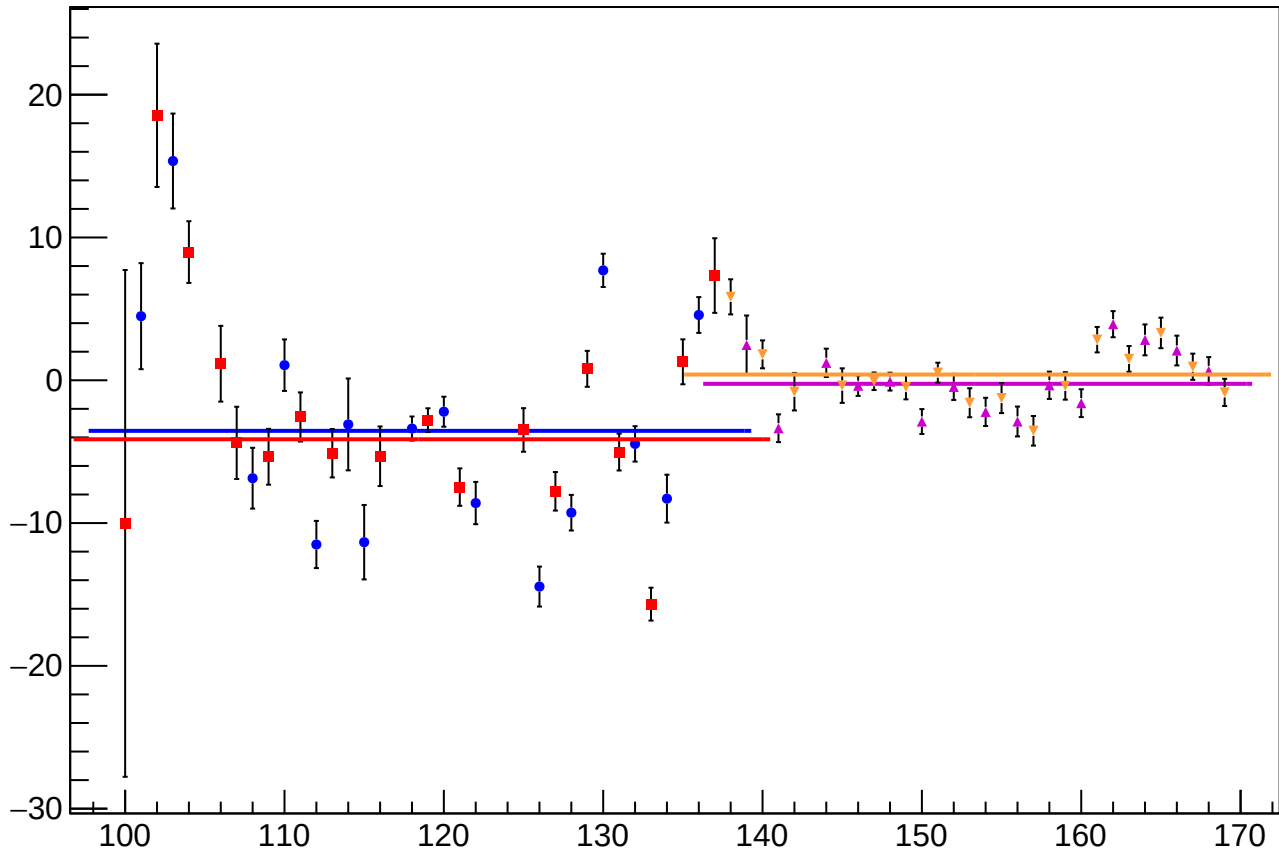
Right: -22.463 ± 0.247 χ^2/NDF : 3392.3/33

In: -8.387 ± 0.244 χ^2/NDF : 5417.9/30

Out: -7.884 ± 0.242 χ^2/NDF : 5169.6/33

All: -8.133 ± 0.172 χ^2/NDF : 10589.6/64

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -3.541 ± 0.363 χ^2/NDF : 316.8/15

Left Out: 0.403 ± 0.232 χ^2/NDF : 64.5/15

Right Out: -4.132 ± 0.371 χ^2/NDF : 227.4/17

Left In: -0.248 ± 0.239 χ^2/NDF : 70.5/14

Left: 0.087 ± 0.167 χ^2/NDF : 138.9/30

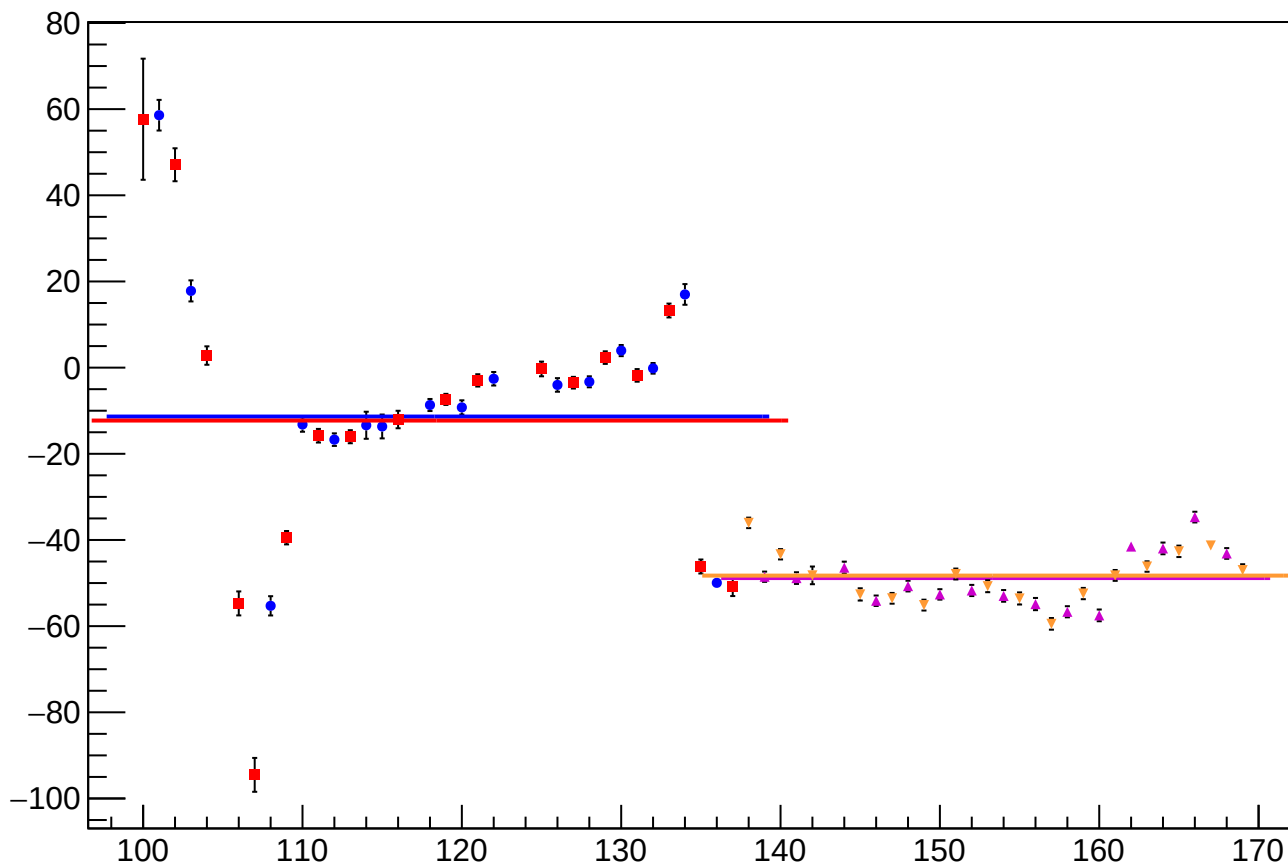
Right: -3.830 ± 0.259 χ^2/NDF : 545.5/33

In: -1.247 ± 0.200 χ^2/NDF : 444.7/30

Out: -0.874 ± 0.197 χ^2/NDF : 399.5/33

All: -1.058 ± 0.140 χ^2/NDF : 846.0/64

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: -11.355 ± 0.406 χ^2/NDF : 2661.6/15

Left Out: -48.271 ± 0.328 χ^2/NDF : 328.1/15

Right Out: -12.281 ± 0.413 χ^2/NDF : 2590.4/17

Left In: -48.840 ± 0.330 χ^2/NDF : 360.8/14

Left: -48.554 ± 0.233 χ^2/NDF : 690.4/30

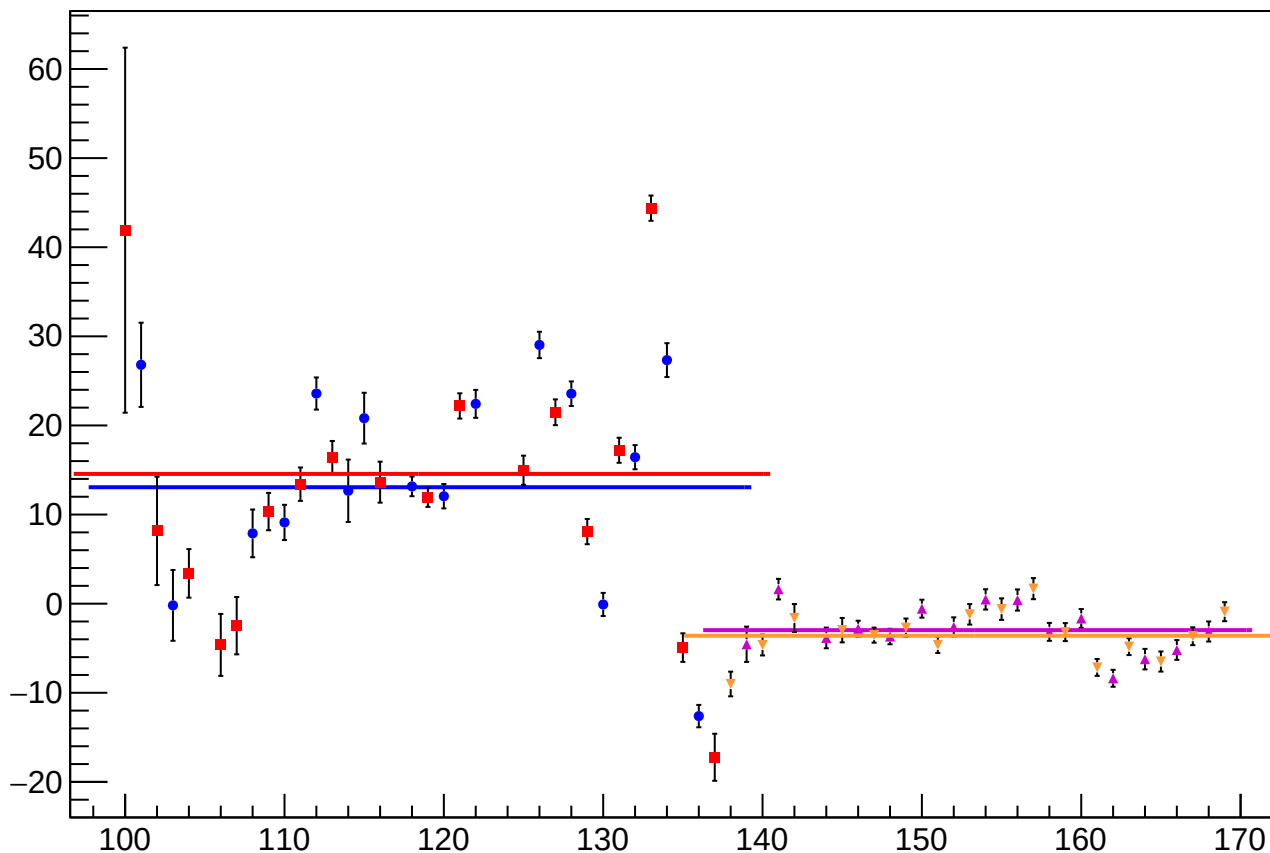
Right: -11.809 ± 0.289 χ^2/NDF : 5254.6/33

In: -33.890 ± 0.256 χ^2/NDF : 8155.3/30

Out: -34.348 ± 0.257 χ^2/NDF : 7571.4/33

All: -34.118 ± 0.181 χ^2/NDF : 15728.3/64

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 13.066 $\pm$ 0.415 χ^2 /NDF: 863.4/15

Left Out: -3.600 $\pm$ 0.269 χ^2 /NDF: 79.3/15

Right Out: 14.563 $\pm$ 0.423 χ^2 /NDF: 903.1/17

Left In: -2.971 $\pm$ 0.278 χ^2 /NDF: 86.9/14

Left: -3.295 $\pm$ 0.193 χ^2 /NDF: 168.9/30

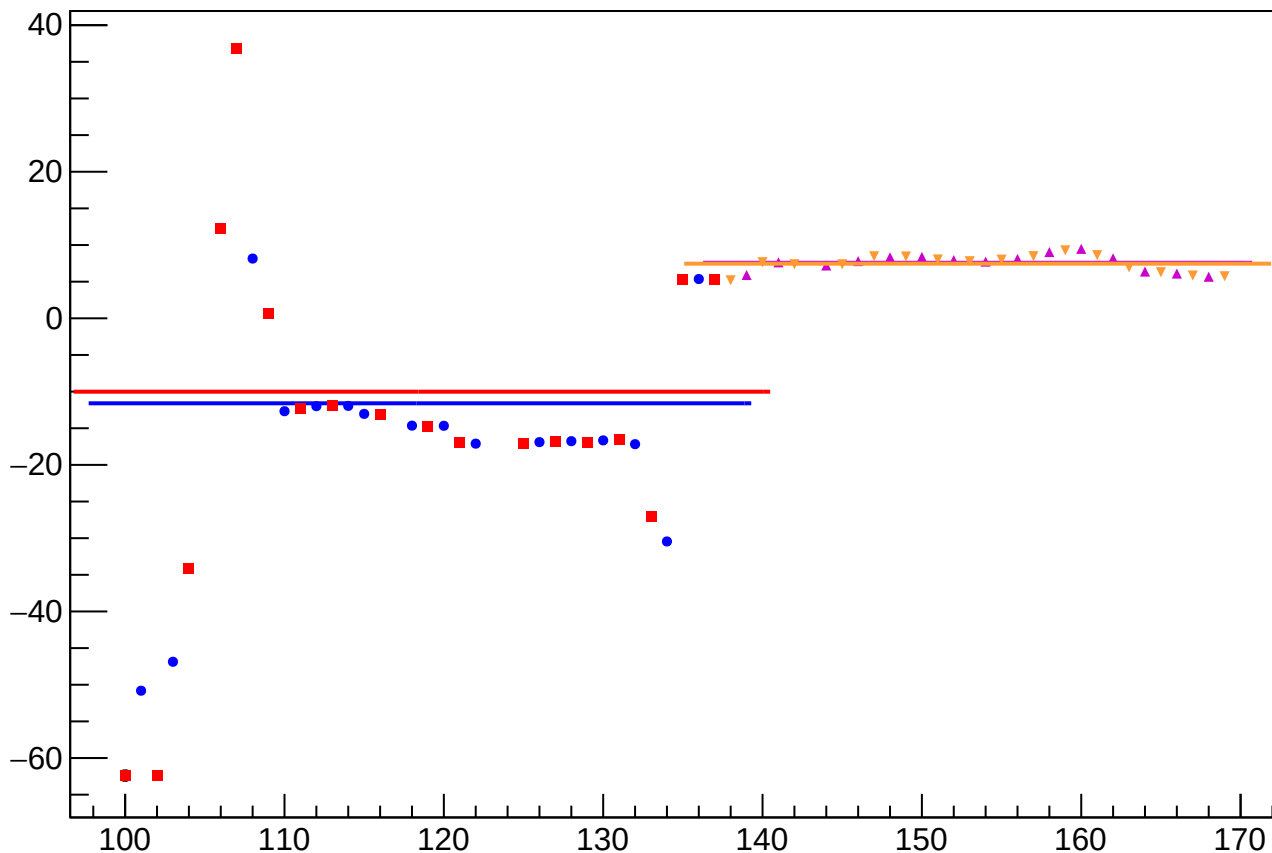
Right: 13.801 $\pm$ 0.296 χ^2 /NDF: 1772.9/33

In: 1.994 $\pm$ 0.231 χ^2 /NDF: 1982.7/30

Out: 1.645 $\pm$ 0.227 χ^2 /NDF: 2296.9/33

All: 1.817 $\pm$ 0.162 χ^2 /NDF: 4280.7/64

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -11.596 ± 0.026 $\chi^2/\text{NDF}: 360523.2/15$

Left Out: 7.456 ± 0.012 $\chi^2/\text{NDF}: 9462.2/15$

Right Out: -10.012 ± 0.027 $\chi^2/\text{NDF}: 396286.9/17$

Left In: 7.582 ± 0.012 $\chi^2/\text{NDF}: 8507.4/14$

Left: 7.519 ± 0.009 $\chi^2/\text{NDF}: 18022.1/30$

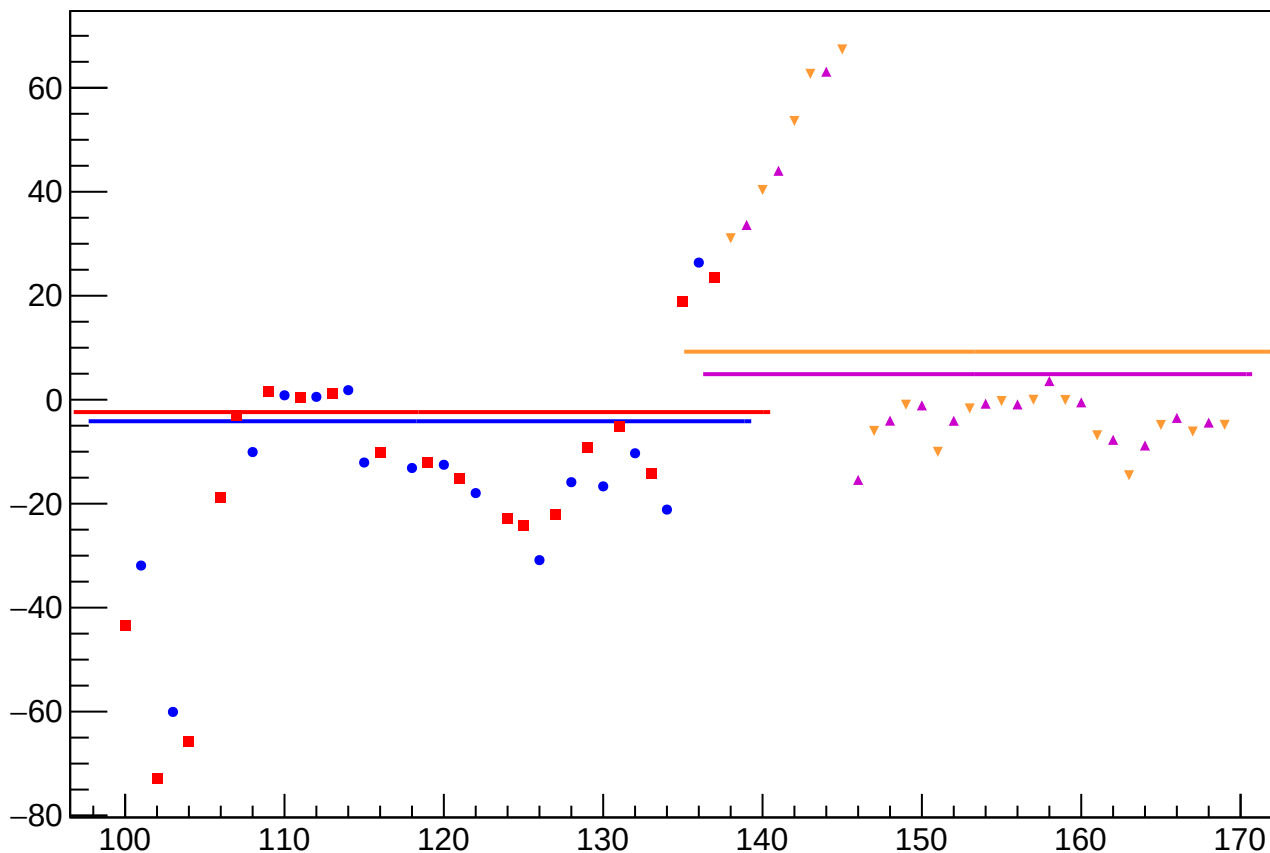
Right: -10.837 ± 0.019 $\chi^2/\text{NDF}: 758546.1/33$

In: 4.121 ± 0.011 $\chi^2/\text{NDF}: 804472.2/30$

Out: 4.549 ± 0.011 $\chi^2/\text{NDF}: 743431.2/33$

All: 4.335 ± 0.008 $\chi^2/\text{NDF}: 1548637.1/64$

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.145 ± 0.055 $\chi^2/\text{NDF}: 75262.7/15$

Left Out: 9.237 ± 0.060 $\chi^2/\text{NDF}: 150979.0/16$

Right Out: -2.382 ± 0.046 $\chi^2/\text{NDF}: 80749.3/18$

Left In: 4.913 ± 0.054 $\chi^2/\text{NDF}: 119970.0/14$

Left: 6.836 ± 0.040 $\chi^2/\text{NDF}: 273792.4/31$

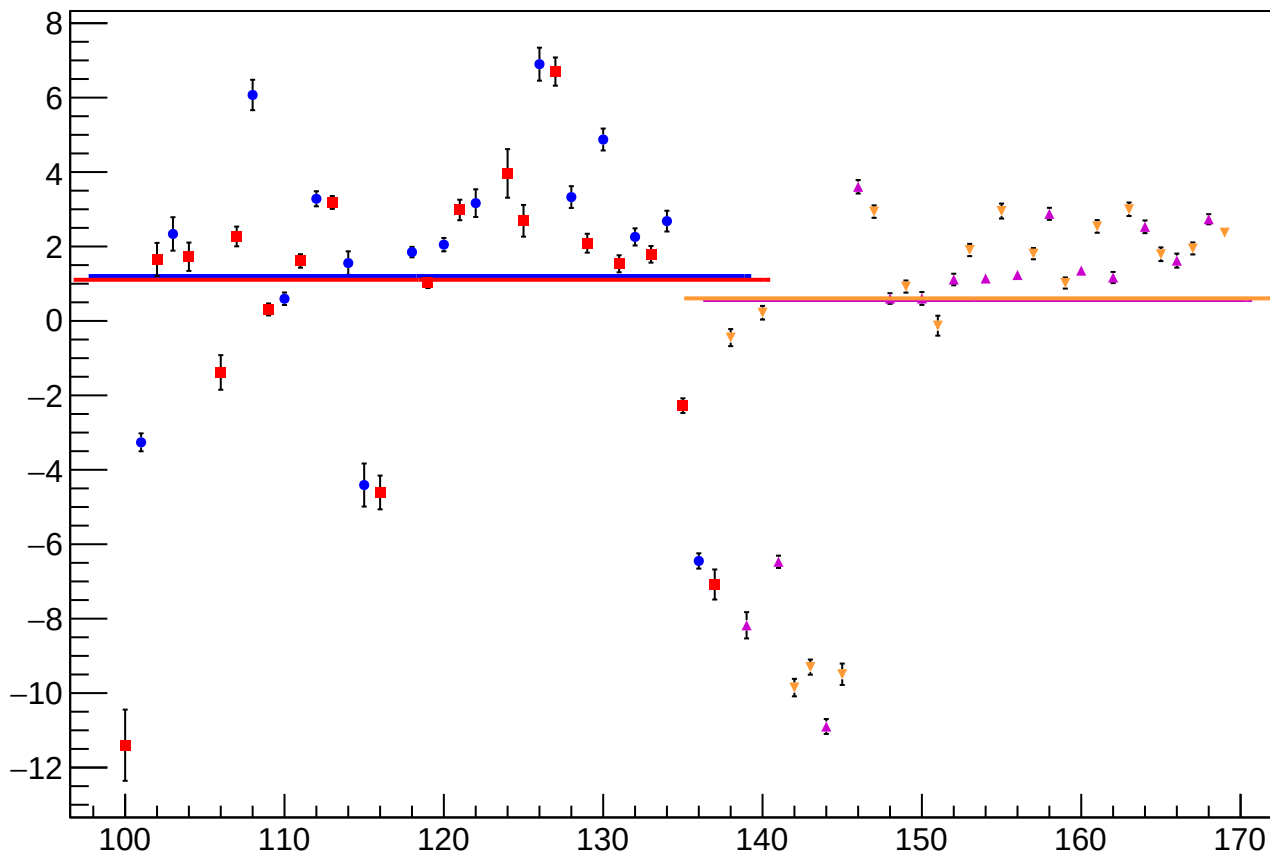
Right: -3.115 ± 0.035 $\chi^2/\text{NDF}: 156619.4/34$

In: 0.434 ± 0.038 $\chi^2/\text{NDF}: 209106.2/30$

Out: 1.897 ± 0.037 $\chi^2/\text{NDF}: 255085.8/35$

All: 1.200 ± 0.027 $\chi^2/\text{NDF}: 464950.0/66$

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.206 $\pm$ 0.060 χ^2 /NDF: 2584.4/15

Left Out: 0.606 $\pm$ 0.044 χ^2 /NDF:6665.2/16

Right Out: 1.106 $\pm$ 0.057 χ^2 /NDF: 1587.2/18

Left In: 0.563 $\pm$ 0.039 χ^2 /NDF:6702.0/14

Left: 0.582 $\pm$ 0.029 χ^2 /NDF: 13367.8/31

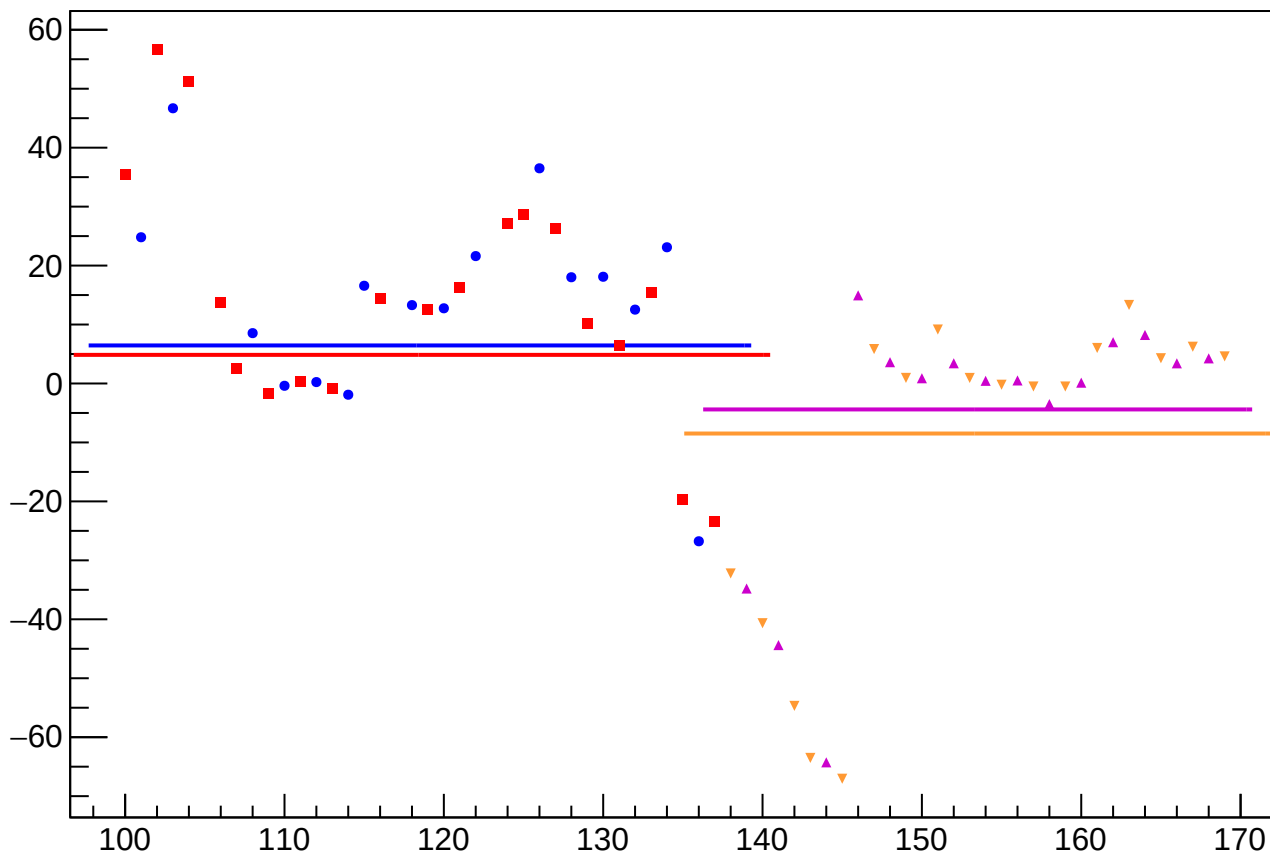
Right: 1.153 $\pm$ 0.042 χ^2 /NDF: 4173.1/34

In: 0.751 $\pm$ 0.033 χ^2 /NDF:9366.6/30

Out: 0.790 $\pm$ 0.035 χ^2 /NDF:8300.7/35

All: 0.769 $\pm$ 0.024 χ^2 /NDF: 17668.0/66

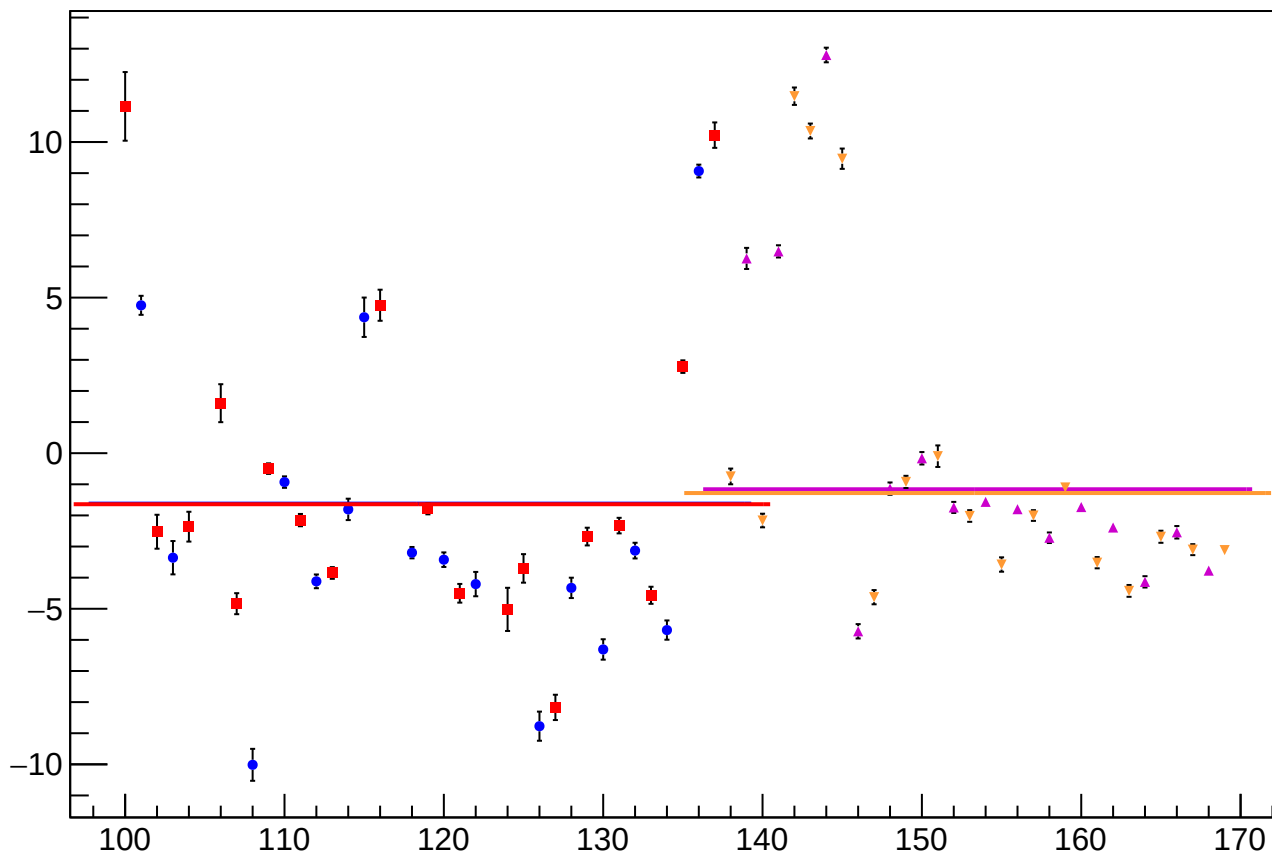
reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.453 ± 0.065 $\chi^2/\text{NDF}: 70671.1/15$
 Left Out: -8.488 ± 0.059 $\chi^2/\text{NDF}: 147271.8/16$
 Right Out: 4.854 ± 0.059 $\chi^2/\text{NDF}: 75267.0/18$
 Left In: -4.403 ± 0.052 $\chi^2/\text{NDF}: 117816.0/14$

Left: -6.191 ± 0.039 $\chi^2/\text{NDF}: 267780.3/31$
 Right: 5.576 ± 0.044 $\chi^2/\text{NDF}: 146268.1/34$
 In: -0.174 ± 0.041 $\chi^2/\text{NDF}: 205402.9/30$
 Out: -1.831 ± 0.042 $\chi^2/\text{NDF}: 248024.9/35$
 All: -0.981 ± 0.029 $\chi^2/\text{NDF}: 454234.8/66$

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs Slug, Sign Corrected

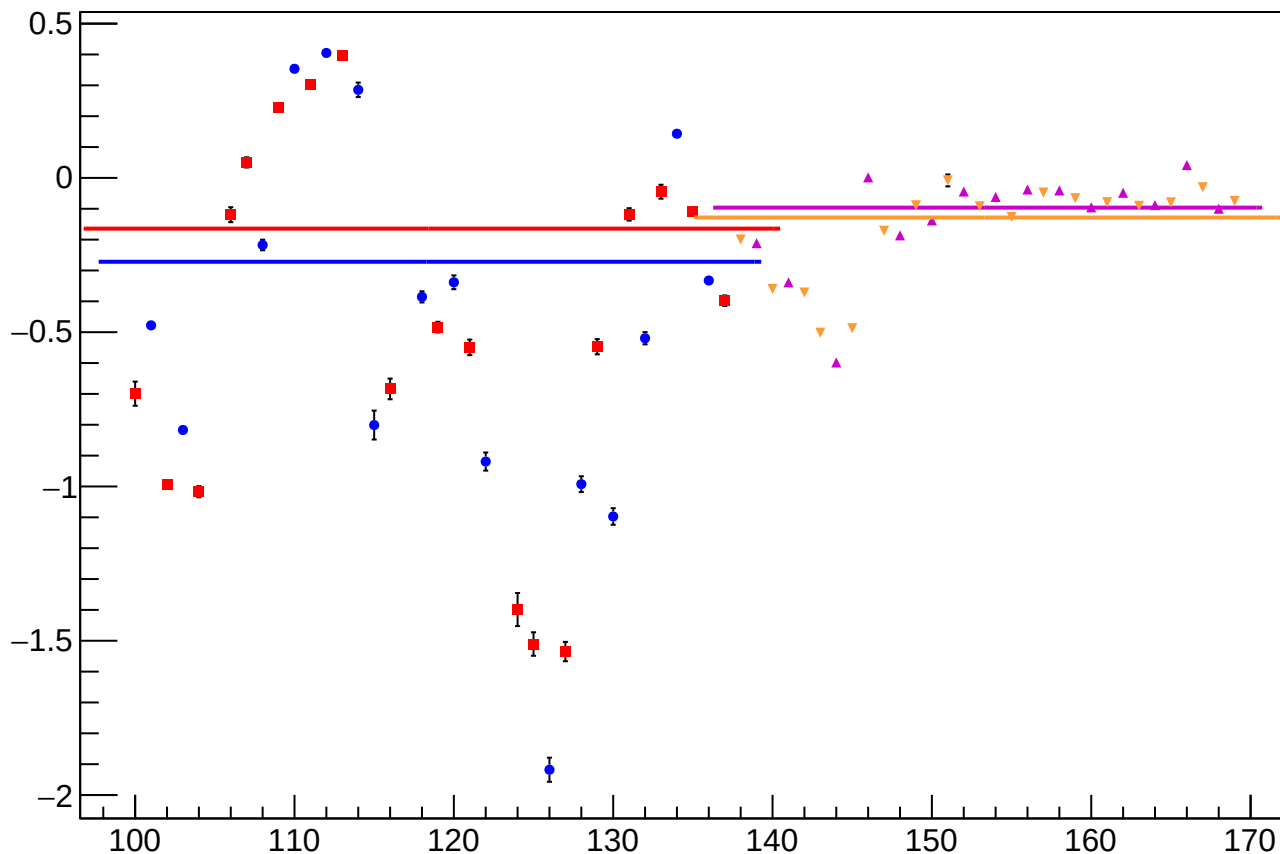


Right In: -1.622 ± 0.070 $\chi^2/\text{NDF}: 4525.3/15$
 Left Out: -1.281 ± 0.049 $\chi^2/\text{NDF}: 6629.0/16$
 Right Out: -1.640 ± 0.065 $\chi^2/\text{NDF}: 2462.1/18$
 Left In: -1.160 ± 0.044 $\chi^2/\text{NDF}: 6724.0/14$

Left: -1.213 ± 0.033 $\chi^2/\text{NDF}: 13356.4/31$
 Right: -1.632 ± 0.047 $\chi^2/\text{NDF}: 6987.4/34$
 In: -1.292 ± 0.037 $\chi^2/\text{NDF}: 11280.8/30$
 Out: -1.414 ± 0.039 $\chi^2/\text{NDF}: 9110.7/35$

All: -1.350 ± 0.027 $\chi^2/\text{NDF}: 20396.5/66$

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.272 ± 0.004 $\chi^2/\text{NDF}: 12048.2/15$

Left Out: -0.128 ± 0.002 $\chi^2/\text{NDF}: 3194.4/16$

Right Out: -0.164 ± 0.004 $\chi^2/\text{NDF}: 15497.0/18$

Left In: -0.096 ± 0.002 $\chi^2/\text{NDF}: 3234.4/14$

Left: -0.110 ± 0.001 $\chi^2/\text{NDF}: 6553.7/31$

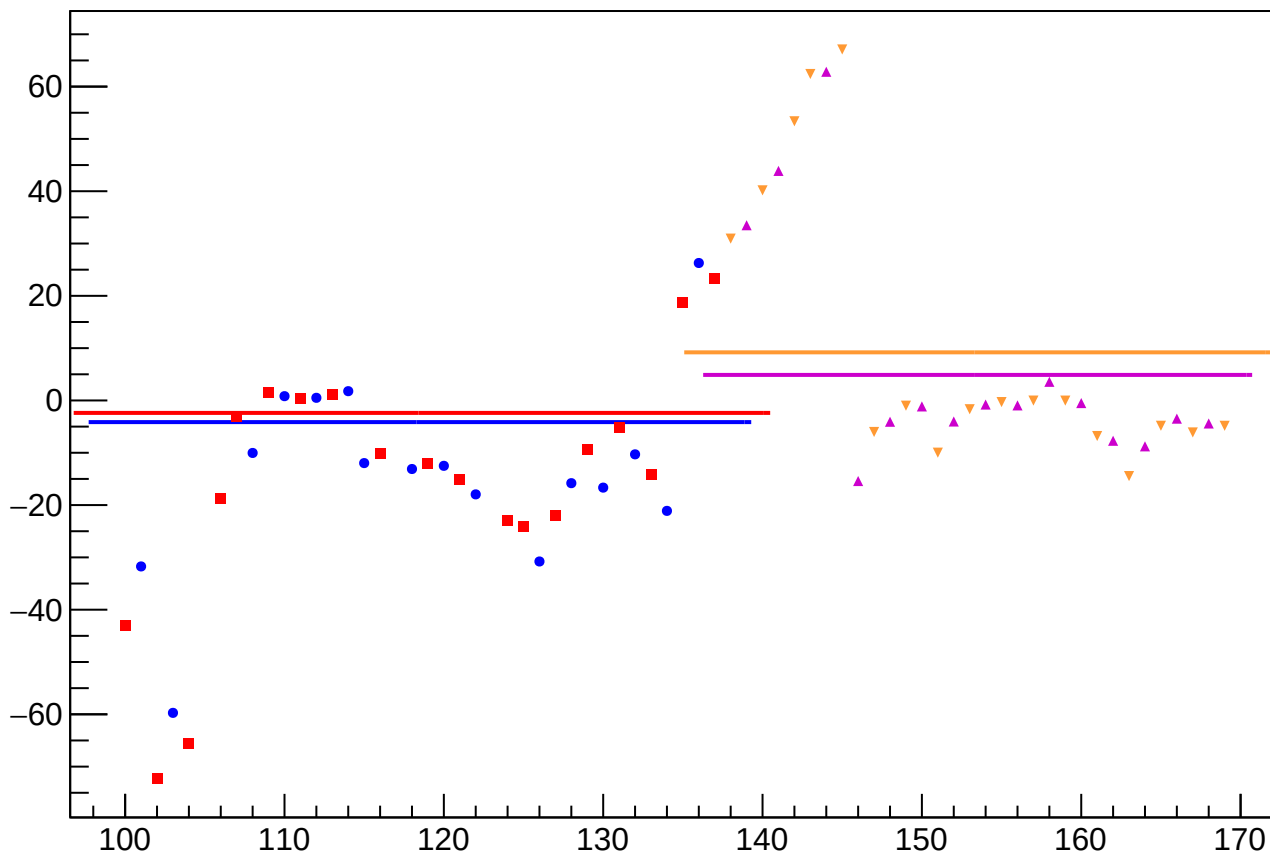
Right: -0.213 ± 0.003 $\chi^2/\text{NDF}: 27909.3/34$

In: -0.126 ± 0.002 $\chi^2/\text{NDF}: 16765.2/30$

Out: -0.137 ± 0.002 $\chi^2/\text{NDF}: 18758.9/35$

All: -0.131 ± 0.001 $\chi^2/\text{NDF}: 35544.2/66$

reg_asym_bcm_an_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.139 ± 0.054 $\chi^2/\text{NDF}: 75240.1/15$

Left Out: 9.197 ± 0.060 $\chi^2/\text{NDF}: 150721.8/16$

Right Out: -2.380 ± 0.046 $\chi^2/\text{NDF}: 80668.5/18$

Left In: 4.883 ± 0.054 $\chi^2/\text{NDF}: 119853.7/14$

Left: 6.803 ± 0.040 $\chi^2/\text{NDF}: 273423.3/31$

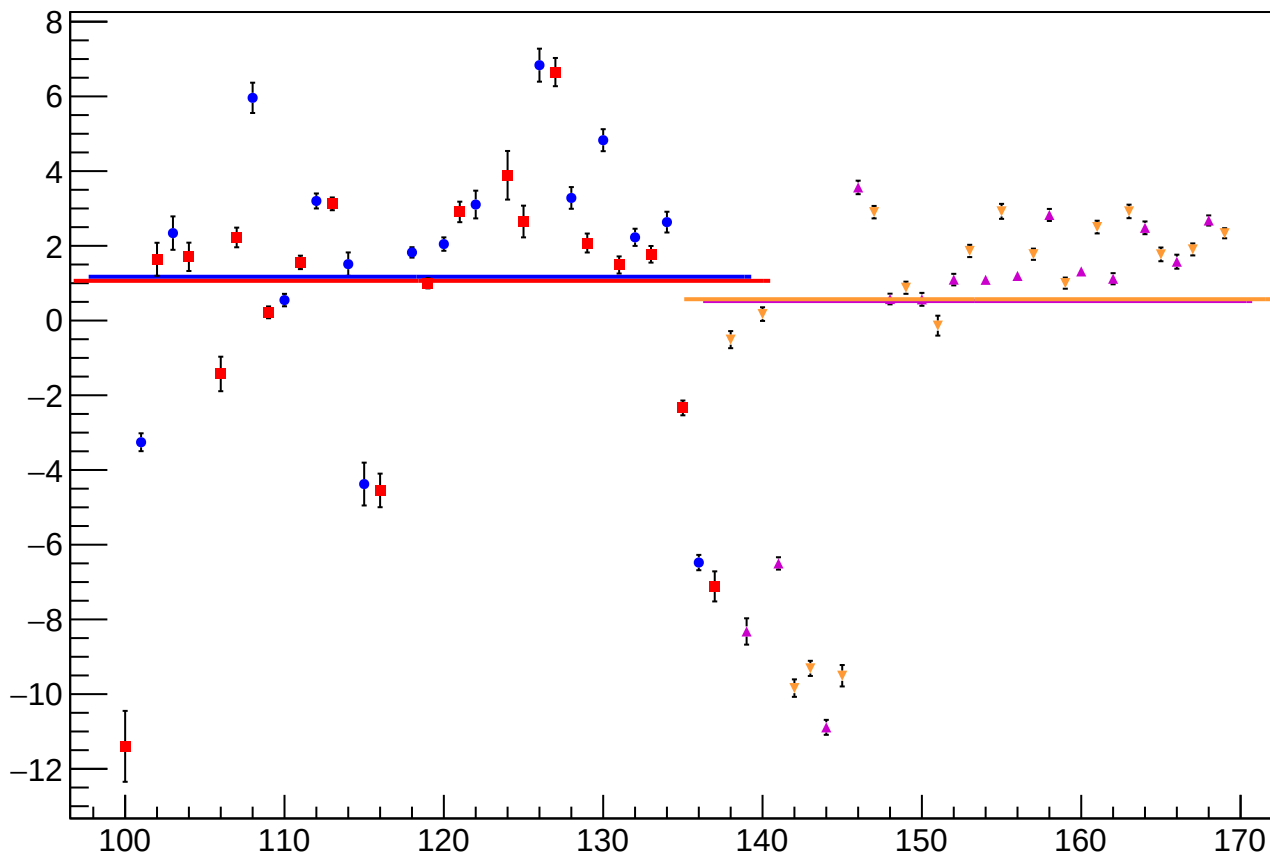
Right: -3.111 ± 0.035 $\chi^2/\text{NDF}: 156520.4/34$

In: 0.407 ± 0.038 $\chi^2/\text{NDF}: 208978.6/30$

Out: 1.866 ± 0.036 $\chi^2/\text{NDF}: 254784.6/35$

All: 1.172 ± 0.026 $\chi^2/\text{NDF}: 464525.3/66$

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.172 $\pm$ 0.060 χ^2 /NDF: 2584.5/15

Left Out: 0.571 $\pm$ 0.043 χ^2 /NDF: 6669.6/16

Right Out: 1.063 $\pm$ 0.057 χ^2 /NDF: 1596.5/18

Left In: 0.522 $\pm$ 0.039 χ^2 /NDF: 6717.9/14

Left: 0.544 $\pm$ 0.029 χ^2 /NDF: 13388.3/31

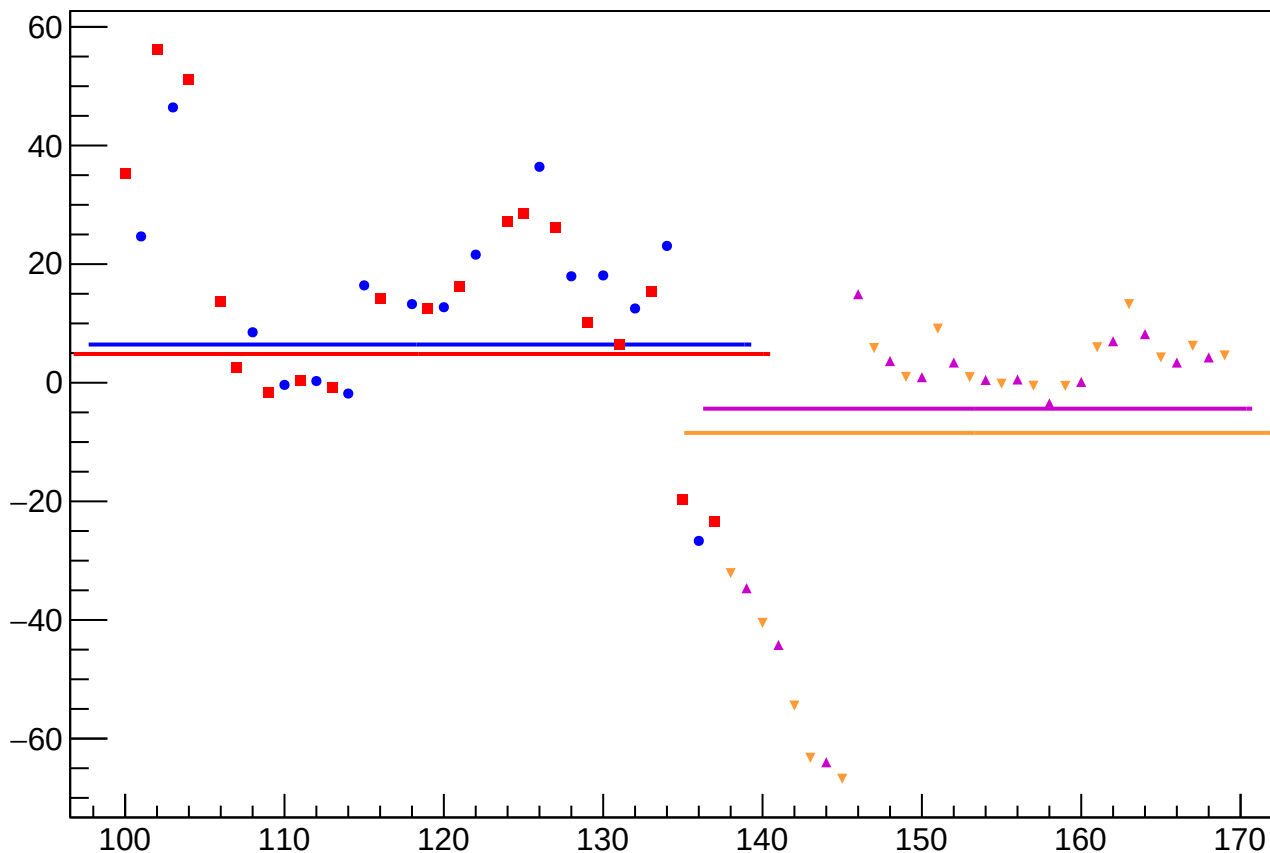
Right: 1.115 $\pm$ 0.041 χ^2 /NDF: 4182.7/34

In: 0.713 $\pm$ 0.033 χ^2 /NDF: 9385.2/30

Out: 0.752 $\pm$ 0.035 χ^2 /NDF: 8313.3/35

All: 0.731 $\pm$ 0.024 χ^2 /NDF: 17699.2/66

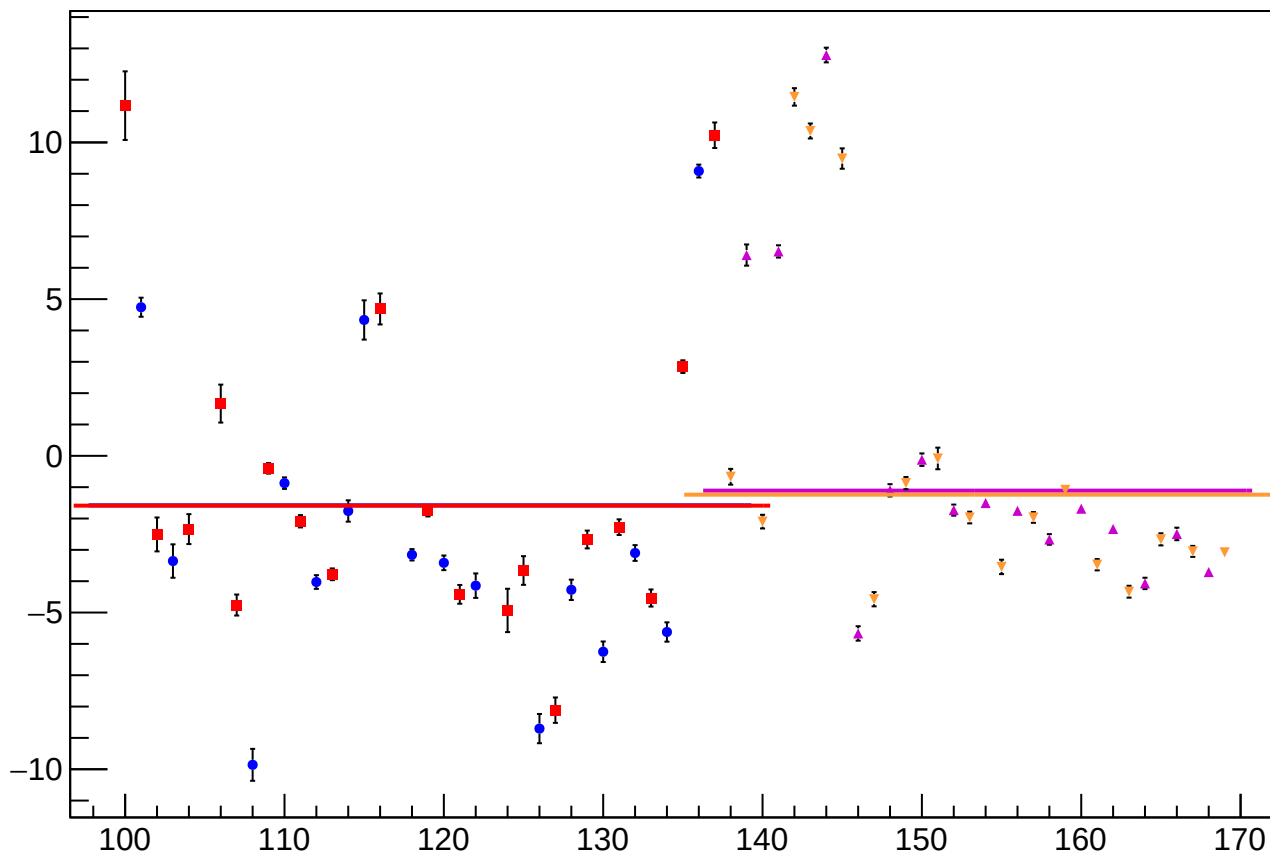
reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.442 $\pm$ 0.065 χ^2 /NDF: 70630.3/15
 Left Out: -8.450 $\pm$ 0.059 χ^2 /NDF: 147022.1/16
 Right Out: 4.848 $\pm$ 0.059 χ^2 /NDF: 75159.9/18
 Left In: -4.373 $\pm$ 0.052 χ^2 /NDF: 117698.5/14

Left: -6.159 $\pm$ 0.039 χ^2 /NDF: 267417.8/31
 Right: 5.568 $\pm$ 0.044 χ^2 /NDF: 146121.3/34
 In: -0.145 $\pm$ 0.041 χ^2 /NDF: 205267.3/30
 Out: -1.798 $\pm$ 0.042 χ^2 /NDF: 247727.5/35
 All: -0.950 $\pm$ 0.029 χ^2 /NDF: 453804.2/66

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -1.580 ± 0.069 χ^2/NDF : 4524.3/15

Left Out: -1.239 ± 0.049 χ^2/NDF : 6628.2/16

Right Out: -1.589 ± 0.064 χ^2/NDF : 2472.2/18

Left In: -1.110 ± 0.044 χ^2/NDF : 6737.5/14

Left: -1.167 ± 0.033 χ^2/NDF : 13369.5/31

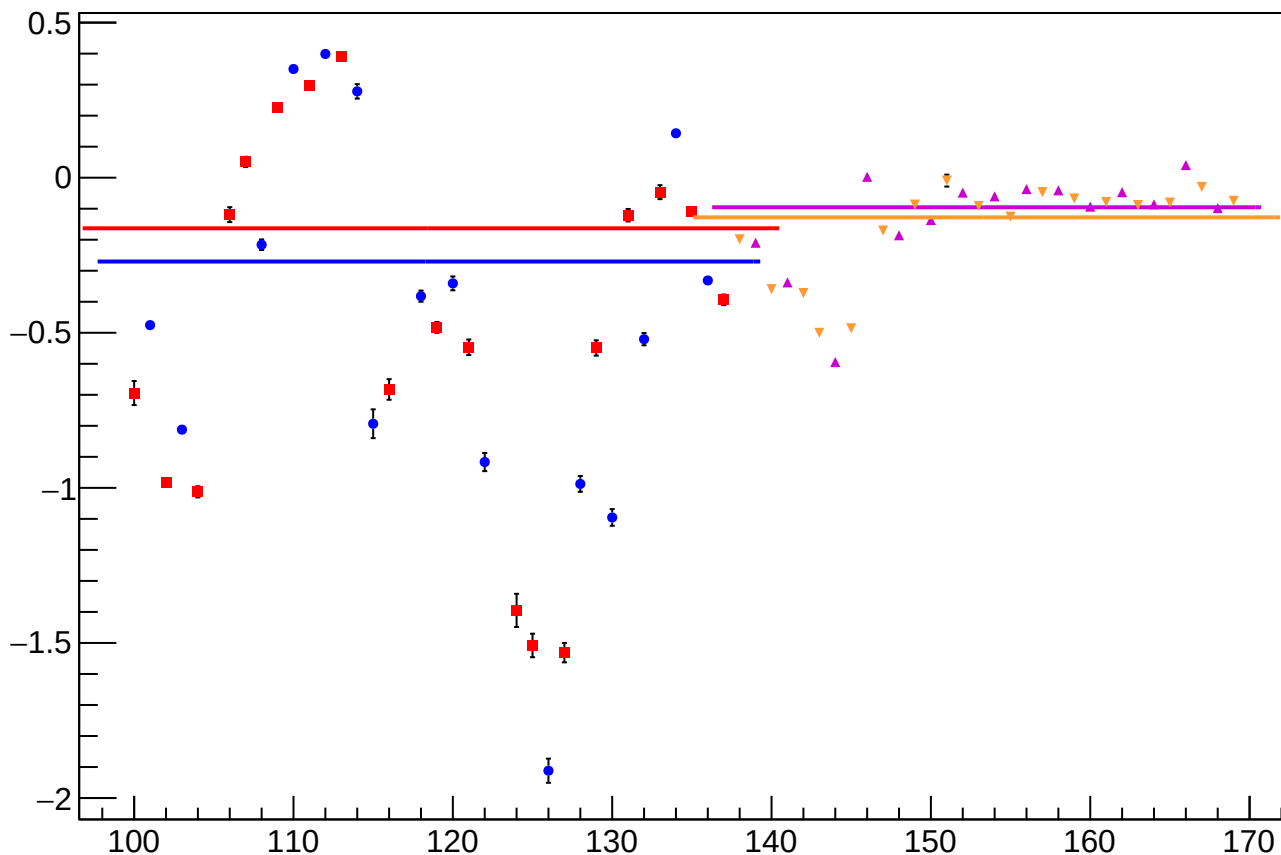
Right: -1.585 ± 0.047 χ^2/NDF : 6996.4/34

In: -1.245 ± 0.037 χ^2/NDF : 11294.5/30

Out: -1.369 ± 0.039 χ^2/NDF : 9119.0/35

All: -1.304 ± 0.027 χ^2/NDF : 20418.8/66

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.270 ± 0.004 χ^2/NDF : 12036.3/15

Left Out: -0.128 ± 0.002 χ^2/NDF : 3205.2/16

Right Out: -0.163 ± 0.004 χ^2/NDF : 15510.0/18

Left In: -0.095 ± 0.002 χ^2/NDF : 3220.2/14

Left: -0.109 ± 0.001 χ^2/NDF : 6555.0/31

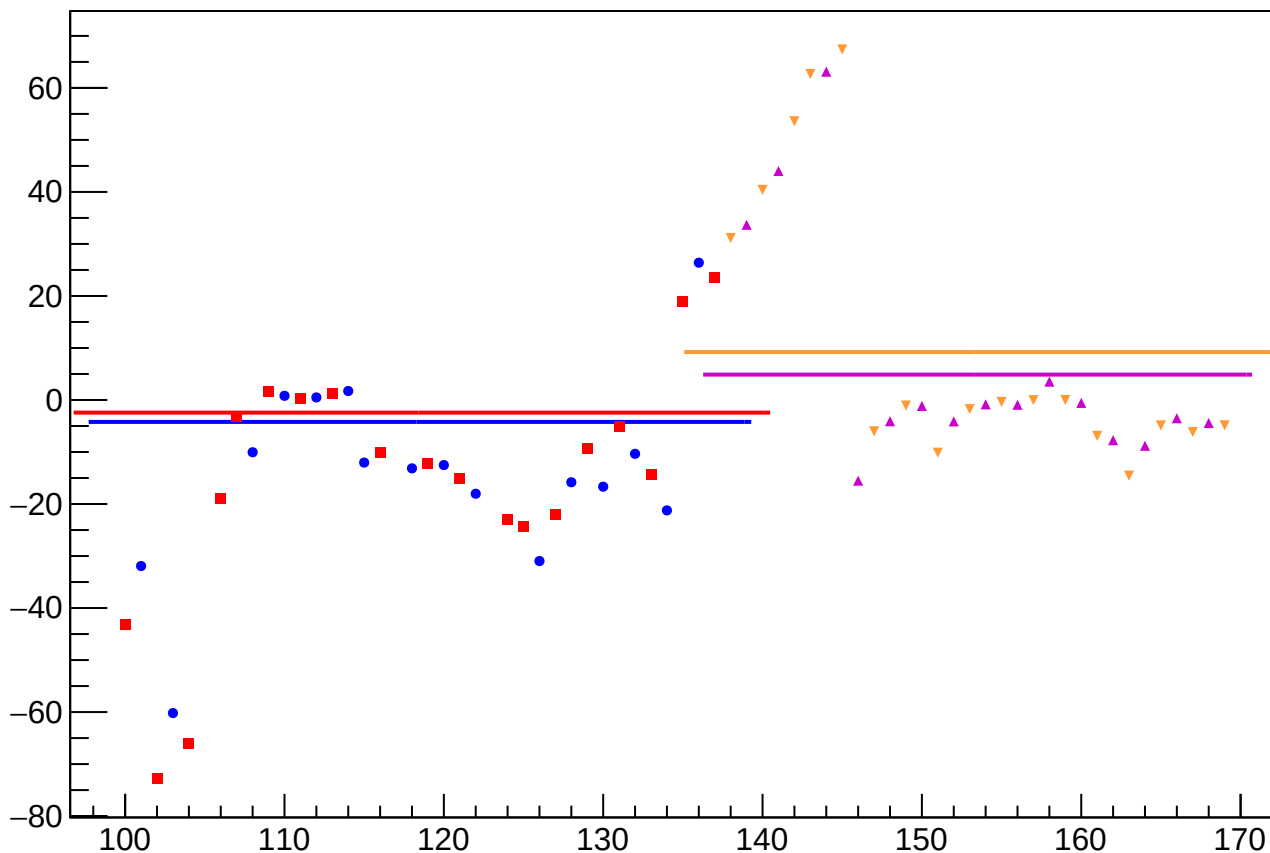
Right: -0.212 ± 0.003 χ^2/NDF : 27912.3/34

In: -0.125 ± 0.002 χ^2/NDF : 16745.2/30

Out: -0.137 ± 0.002 χ^2/NDF : 18780.8/35

All: -0.130 ± 0.001 χ^2/NDF : 35547.3/66

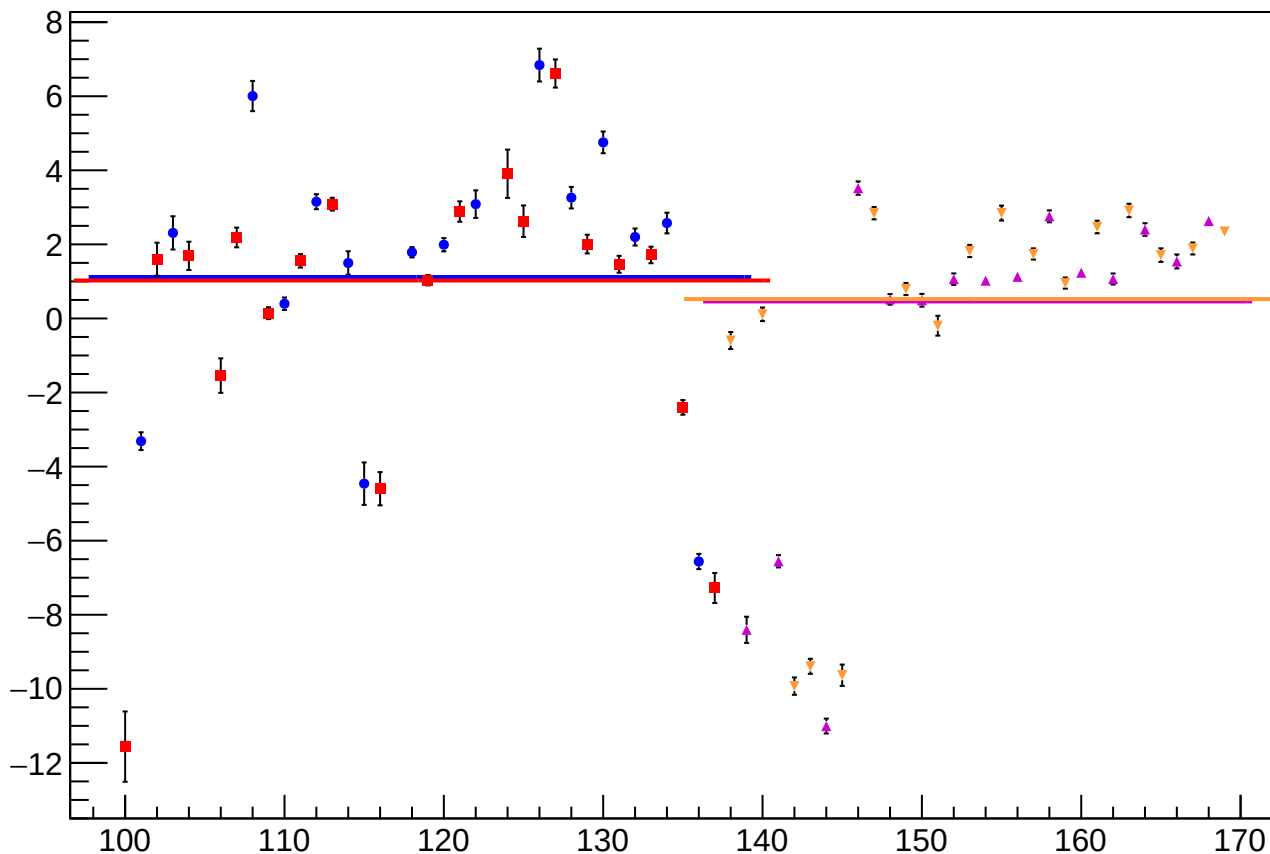
reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.214 ± 0.055 $\chi^2/\text{NDF}: 75215.4/15$
 Left Out: 9.216 ± 0.060 $\chi^2/\text{NDF}: 151075.6/16$
 Right Out: -2.427 ± 0.046 $\chi^2/\text{NDF}: 80724.5/18$
 Left In: 4.880 ± 0.054 $\chi^2/\text{NDF}: 119979.9/14$

Left: 6.808 ± 0.040 $\chi^2/\text{NDF}: 273910.3/31$
 Right: -3.171 ± 0.035 $\chi^2/\text{NDF}: 156563.0/34$
 In: 0.382 ± 0.038 $\chi^2/\text{NDF}: 209159.5/30$
 Out: 1.861 ± 0.037 $\chi^2/\text{NDF}: 255212.5/35$
 All: 1.156 ± 0.027 $\chi^2/\text{NDF}: 465145.7/66$

reg_asym_bcm_an_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.118 $\pm$ 0.060 χ^2 /NDF: 2591.7/15

Left Out: 0.524 $\pm$ 0.044 χ^2 /NDF:6689.4/16

Right Out: 1.025 $\pm$ 0.057 χ^2 /NDF: 1612.0/18

Left In: 0.459 $\pm$ 0.039 χ^2 /NDF:6695.0/14

Left: 0.488 $\pm$ 0.029 χ^2 /NDF: 13385.7/31

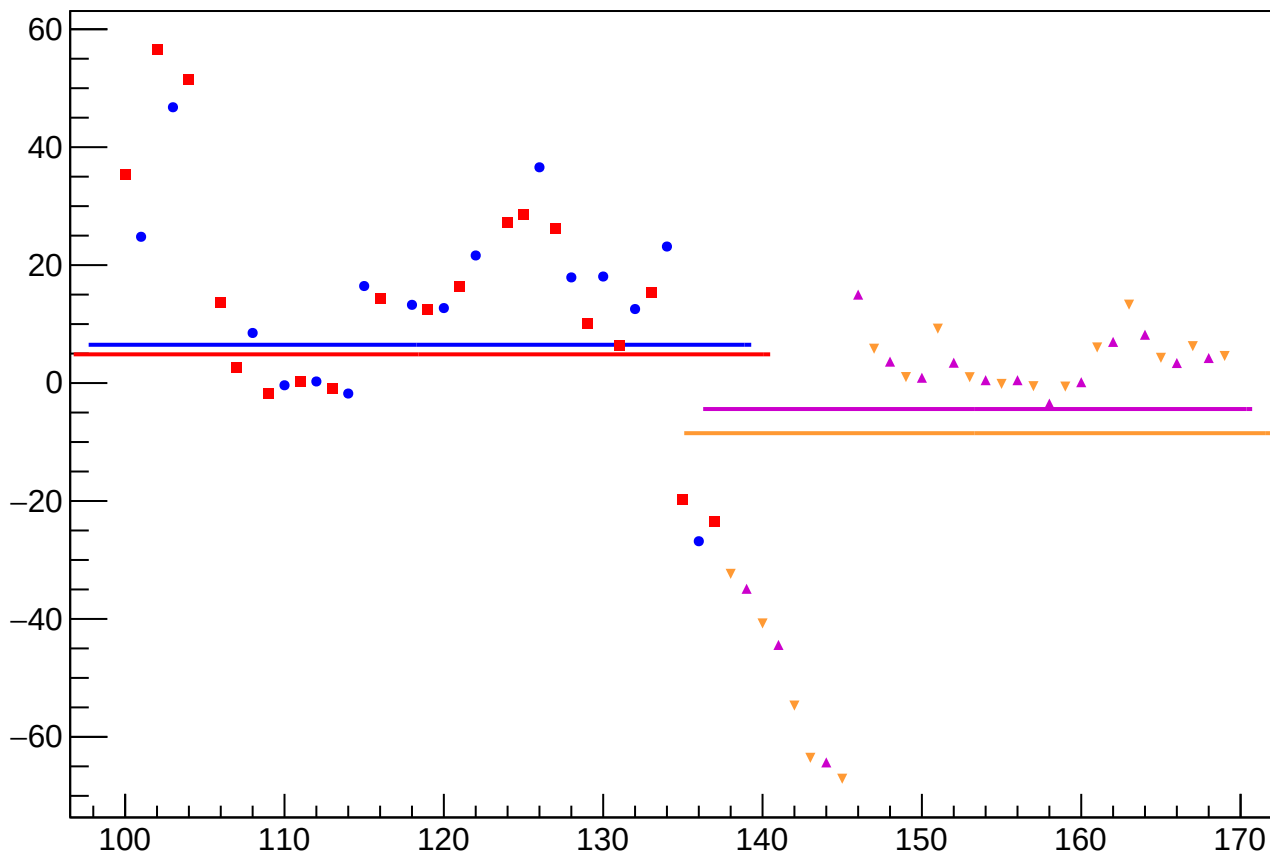
Right: 1.069 $\pm$ 0.042 χ^2 /NDF: 4205.0/34

In: 0.652 $\pm$ 0.033 χ^2 /NDF:9370.9/30

Out: 0.708 $\pm$ 0.035 χ^2 /NDF:8349.9/35

All: 0.678 $\pm$ 0.024 χ^2 /NDF: 17722.1/66

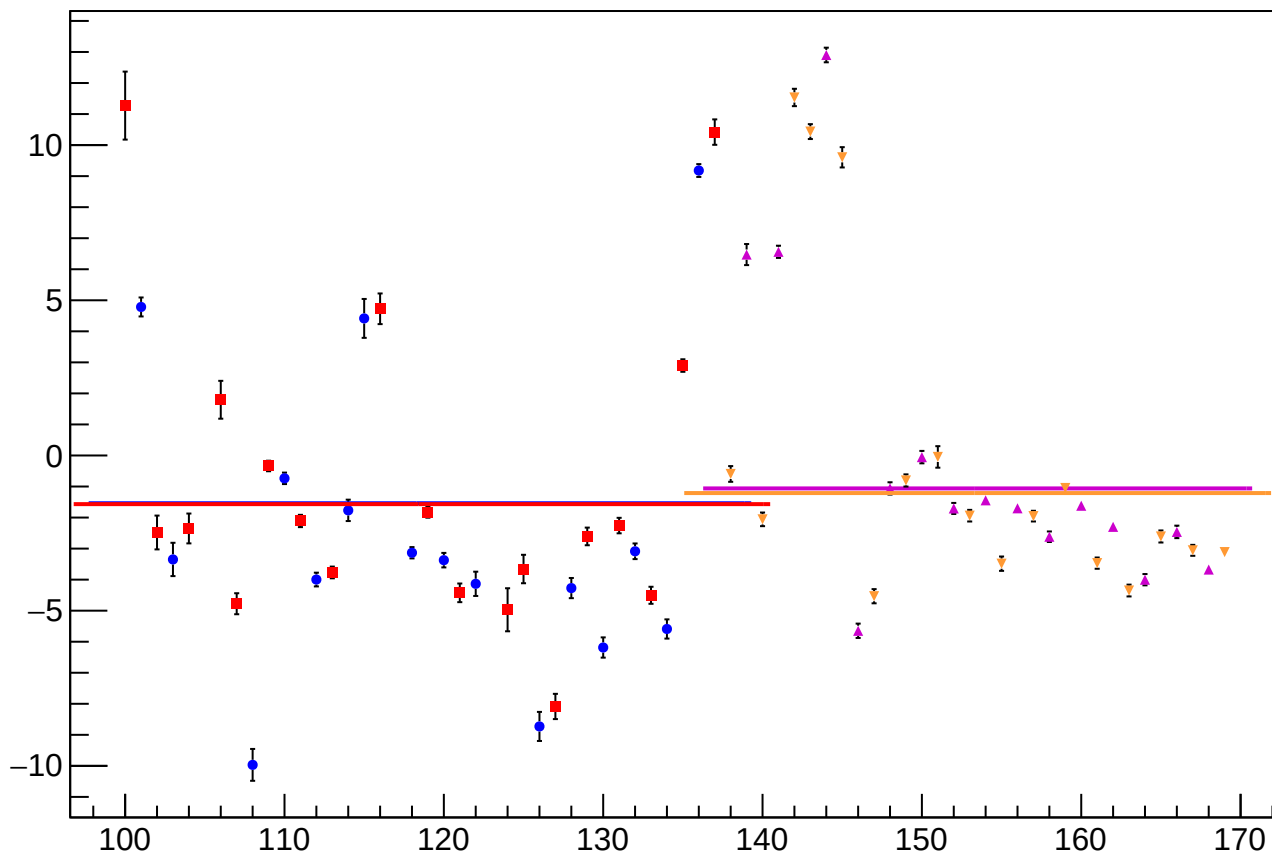
reg_asym_bcm_an_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.492 ± 0.065 $\chi^2/\text{NDF}: 70623.9/15$
 Left Out: -8.500 ± 0.059 $\chi^2/\text{NDF}: 147384.3/16$
 Right Out: 4.869 ± 0.059 $\chi^2/\text{NDF}: 75265.6/18$
 Left In: -4.404 ± 0.052 $\chi^2/\text{NDF}: 117831.0/14$

Left: -6.197 ± 0.039 $\chi^2/\text{NDF}: 267915.9/31$
 Right: 5.602 ± 0.044 $\chi^2/\text{NDF}: 146229.3/34$
 In: -0.156 ± 0.041 $\chi^2/\text{NDF}: 205483.6/30$
 Out: -1.828 ± 0.042 $\chi^2/\text{NDF}: 248196.7/35$
 All: -0.970 ± 0.029 $\chi^2/\text{NDF}: 454500.1/66$

reg_asym_bcm_an_us_diff_bpm4eY_slope vs Slug, Sign Corrected

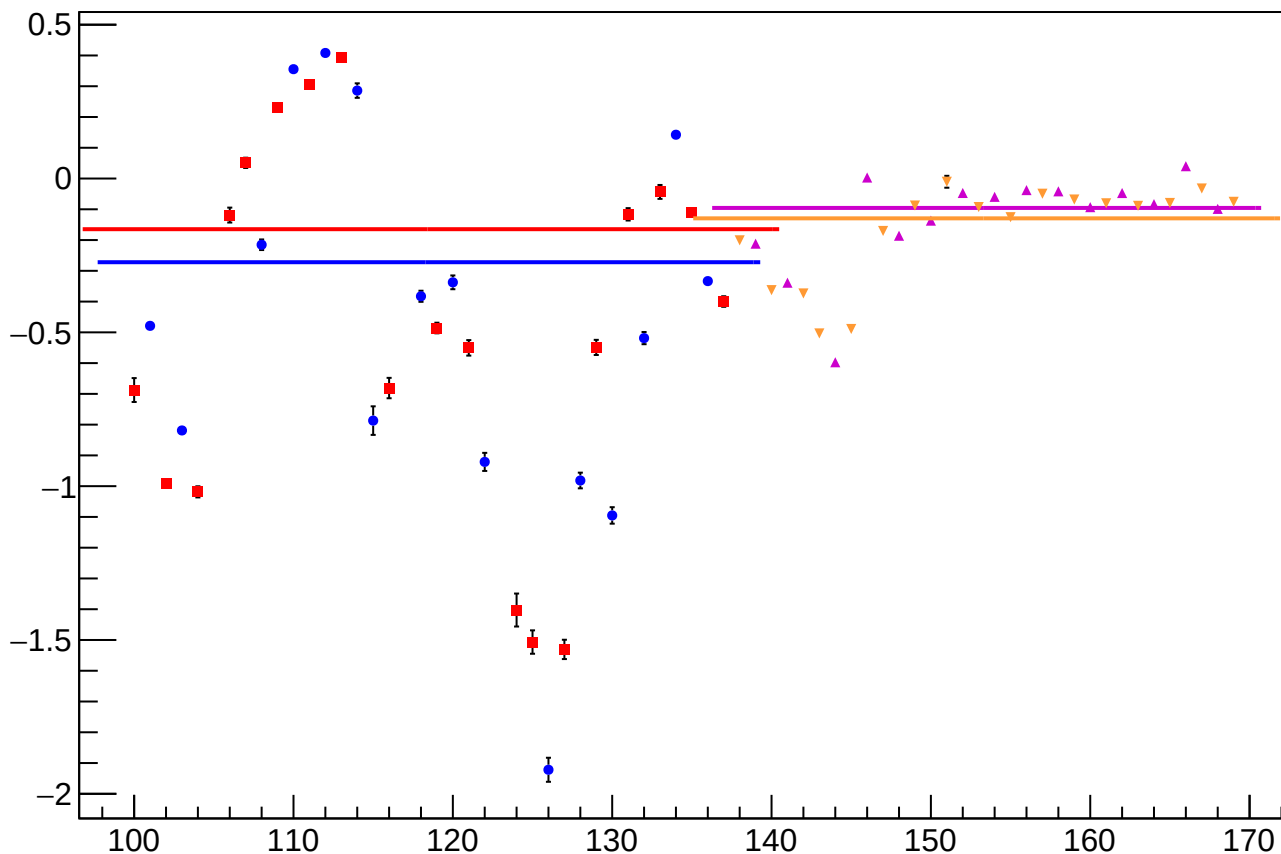


Right In: -1.540 ± 0.070 χ^2/NDF : 4535.9/15
 Left Out: -1.211 ± 0.049 χ^2/NDF : 6651.8/16
 Right Out: -1.567 ± 0.065 χ^2/NDF : 2497.0/18
 Left In: -1.061 ± 0.044 χ^2/NDF : 6720.1/14

Left: -1.127 ± 0.033 χ^2/NDF : 13376.9/31
 Right: -1.555 ± 0.047 χ^2/NDF : 7032.9/34
 In: -1.198 ± 0.037 χ^2/NDF : 11289.7/30
 Out: -1.342 ± 0.039 χ^2/NDF : 9168.0/35

All: -1.267 ± 0.027 χ^2/NDF : 20464.8/66

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.272 ± 0.004 χ^2/NDF : 12063.6/15

Left Out: -0.129 ± 0.002 χ^2/NDF : 3202.4/16

Right Out: -0.165 ± 0.004 χ^2/NDF : 15490.5/18

Left In: -0.096 ± 0.002 χ^2/NDF : 3222.6/14

Left: -0.110 ± 0.001 χ^2/NDF : 6564.4/31

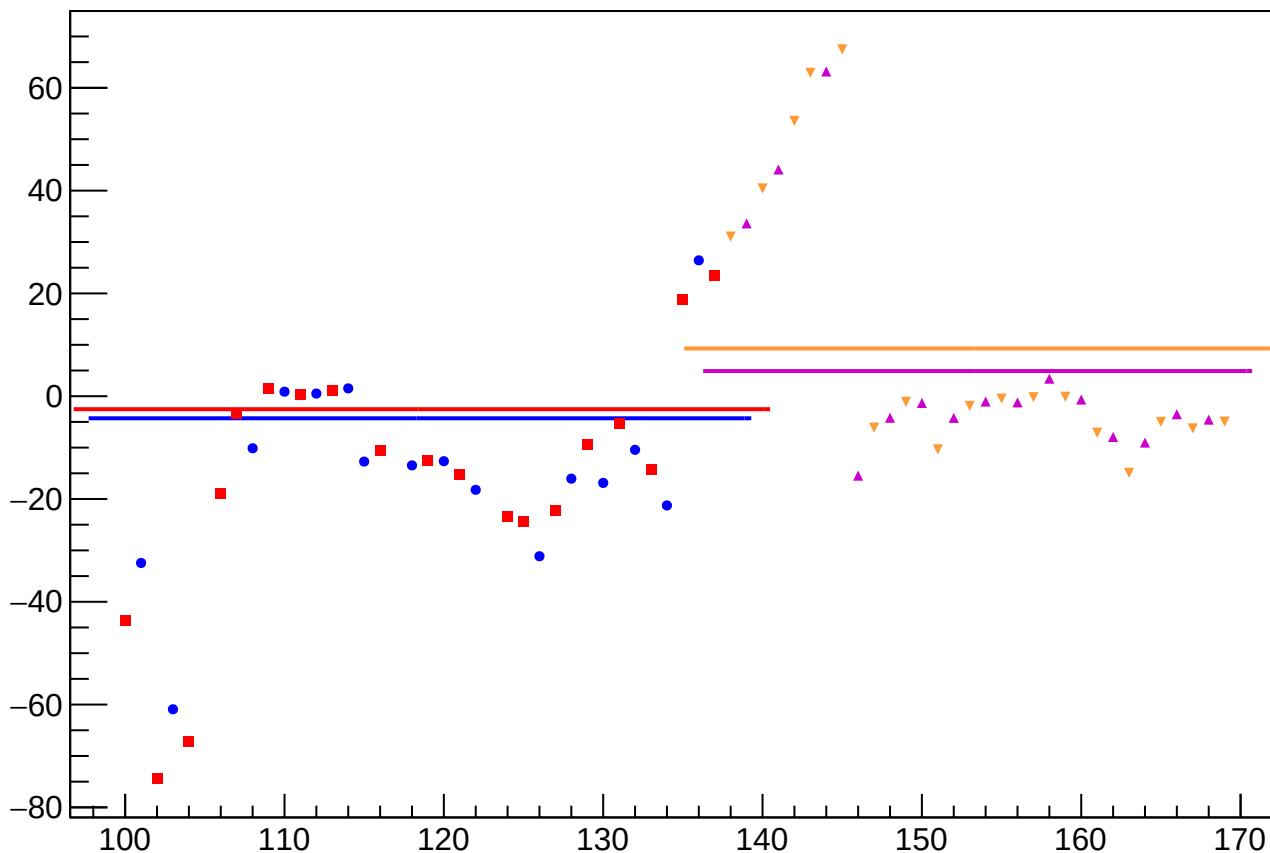
Right: -0.214 ± 0.003 χ^2/NDF : 27917.4/34

In: -0.125 ± 0.002 χ^2/NDF : 16784.9/30

Out: -0.138 ± 0.002 χ^2/NDF : 18757.7/35

All: -0.131 ± 0.001 χ^2/NDF : 35568.1/66

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.296 ± 0.056 χ^2/NDF : 74218.3/15

Left Out: 9.285 ± 0.061 χ^2/NDF : 148890.7/16

Right Out: -2.524 ± 0.047 χ^2/NDF : 79883.8/18

Left In: 4.895 ± 0.055 χ^2/NDF : 118067.1/14

Left: 6.858 ± 0.041 χ^2/NDF : 269783.0/31

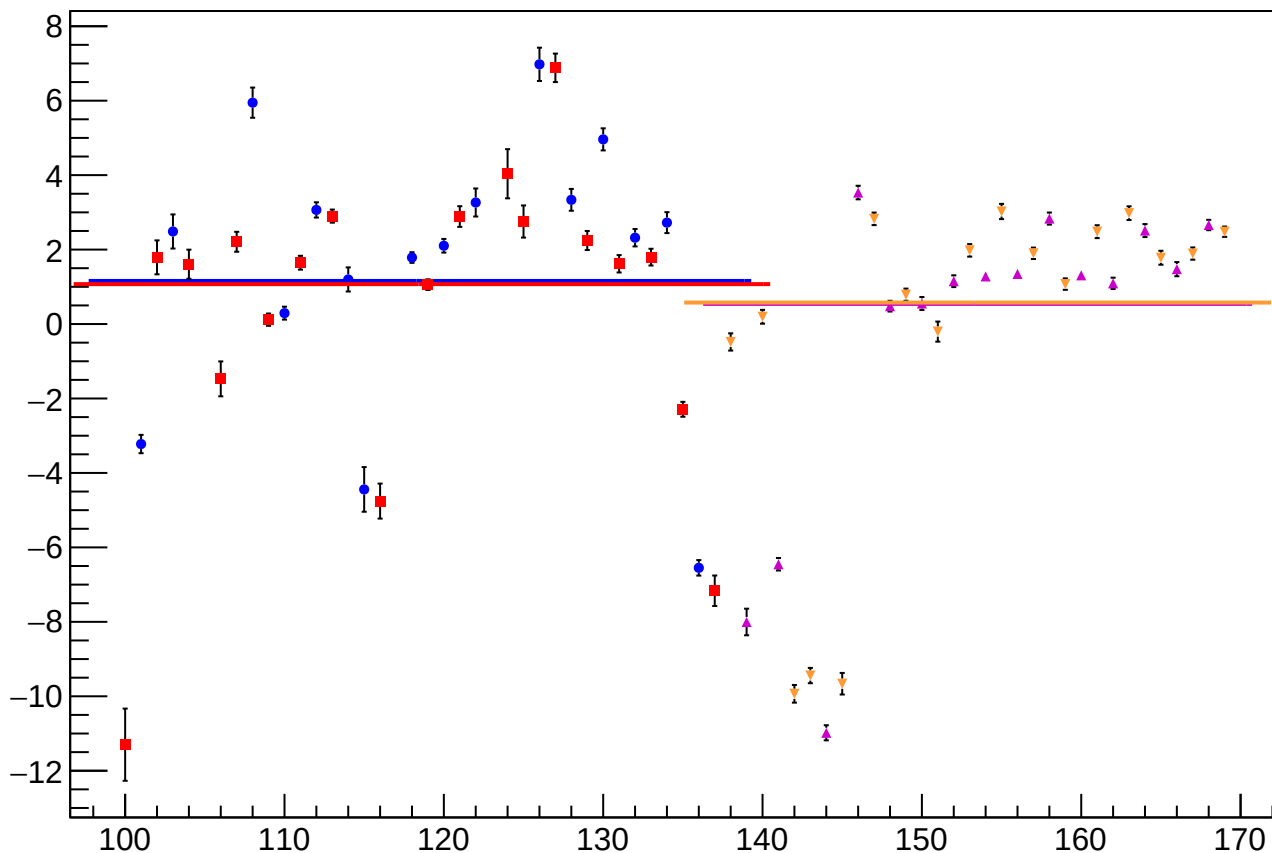
Right: -3.265 ± 0.036 χ^2/NDF : 154689.9/34

In: 0.342 ± 0.039 χ^2/NDF : 206008.9/30

Out: 1.865 ± 0.037 χ^2/NDF : 252014.9/35

All: 1.139 ± 0.027 χ^2/NDF : 458812.7/66

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.158 $\pm$ 0.062 χ^2 /NDF: 2549.9/15

Left Out: 0.577 $\pm$ 0.044 χ^2 /NDF:6671.3/16

Right Out: 1.072 $\pm$ 0.058 χ^2 /NDF: 1551.4/18

Left In: 0.541 $\pm$ 0.040 χ^2 /NDF:6535.3/14

Left: 0.557 $\pm$ 0.030 χ^2 /NDF: 13207.0/31

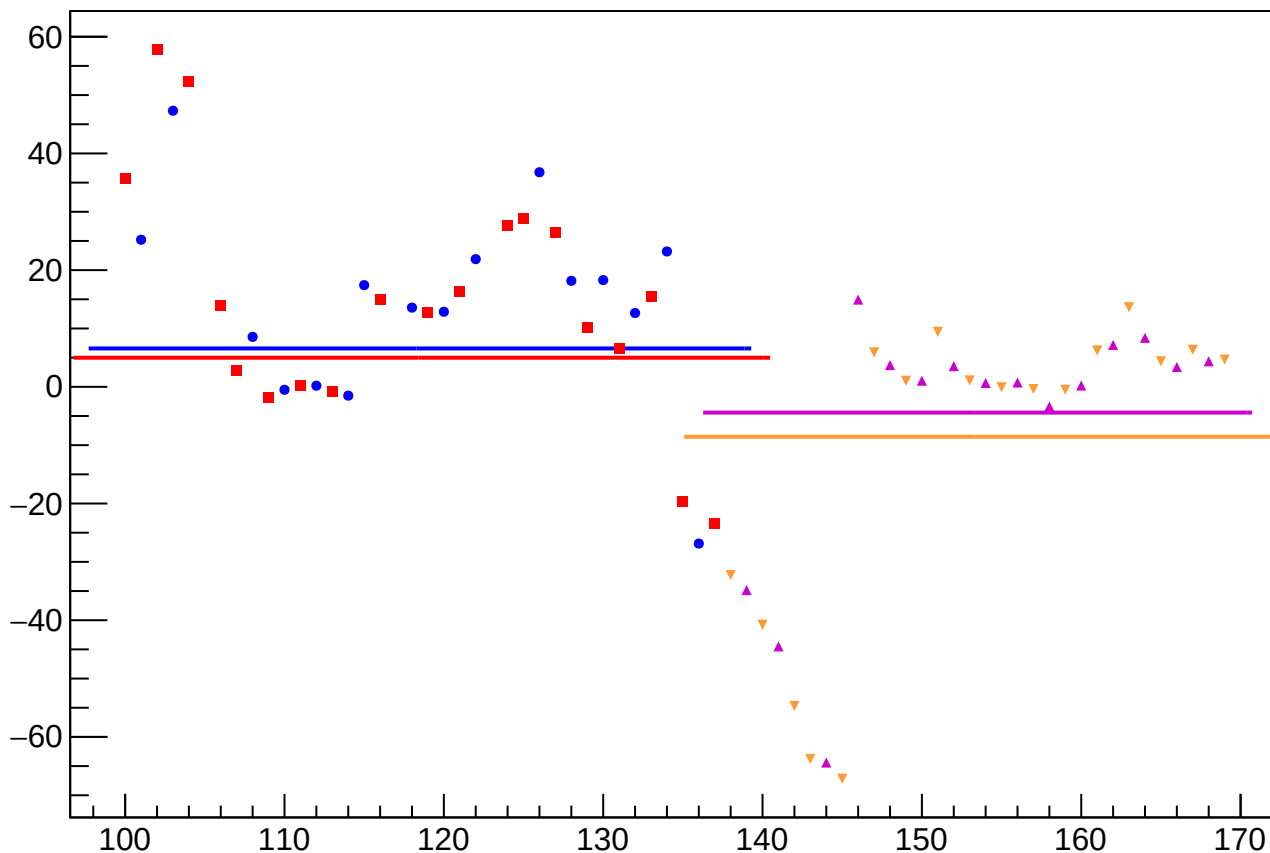
Right: 1.113 $\pm$ 0.042 χ^2 /NDF: 4102.4/34

In: 0.723 $\pm$ 0.033 χ^2 /NDF:9156.1/30

Out: 0.758 $\pm$ 0.035 χ^2 /NDF:8268.4/35

All: 0.739 $\pm$ 0.024 χ^2 /NDF: 17425.1/66

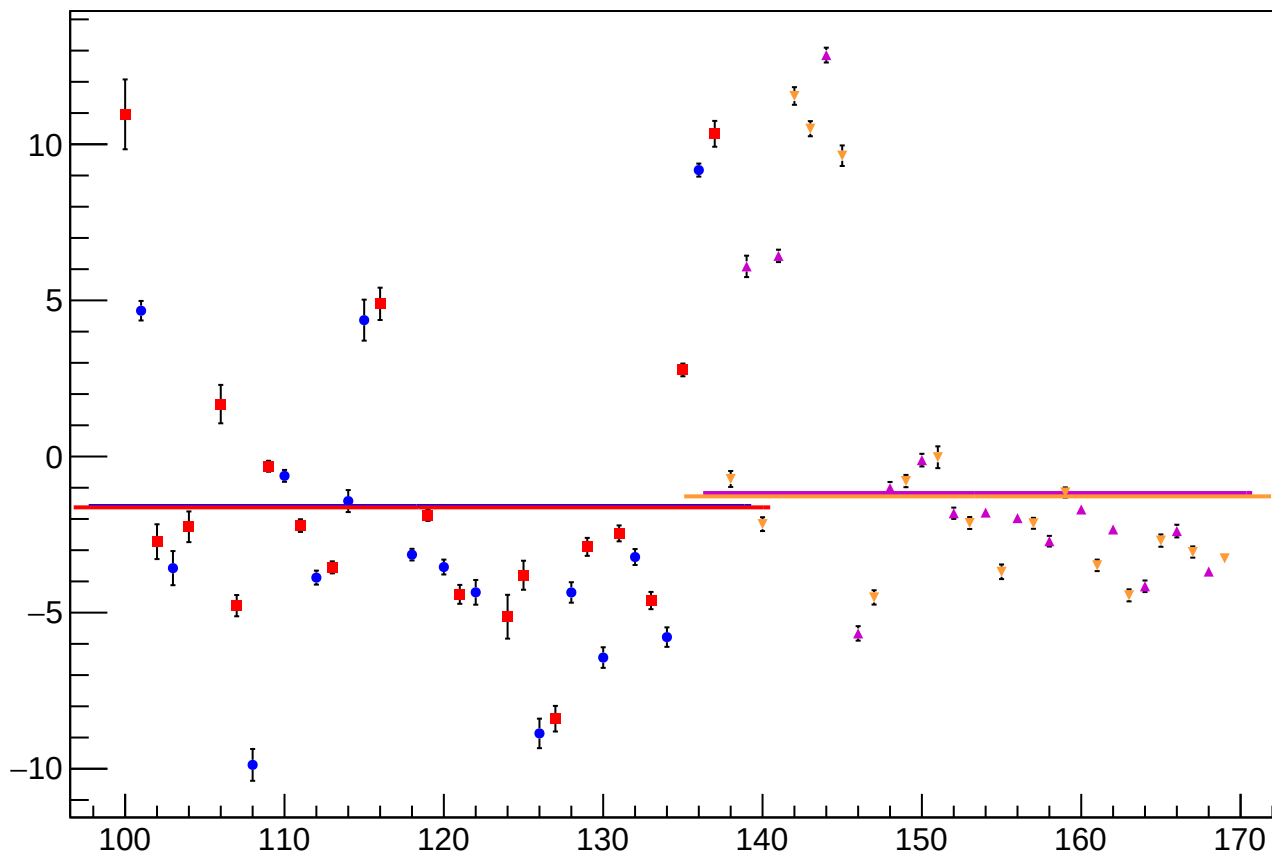
reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.578 ± 0.066 χ^2/NDF : 69731.5/15
 Left Out: -8.559 ± 0.060 χ^2/NDF : 145257.0/16
 Right Out: 4.992 ± 0.060 χ^2/NDF : 74461.3/18
 Left In: -4.413 ± 0.053 χ^2/NDF : 115941.5/14

Left: -6.239 ± 0.040 χ^2/NDF : 263871.1/31
 Right: 5.710 ± 0.045 χ^2/NDF : 144504.9/34
 In: -0.113 ± 0.042 χ^2/NDF : 202354.4/30
 Out: -1.831 ± 0.043 χ^2/NDF : 245045.4/35
 All: -0.951 ± 0.030 χ^2/NDF : 448234.3/66

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs Slug, Sign Corrected

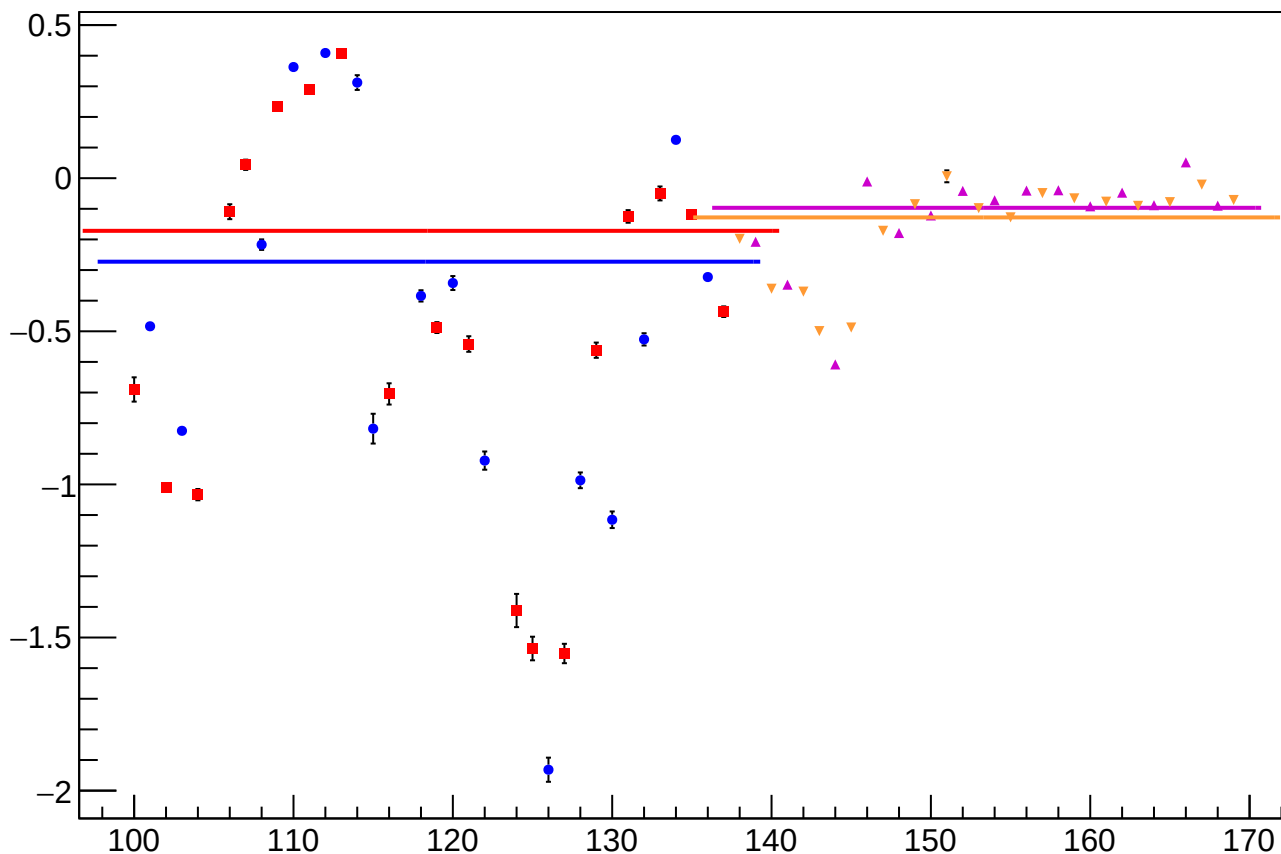


Right In: -1.586 ± 0.071 χ^2/NDF : 4472.6/15
 Left Out: -1.276 ± 0.050 χ^2/NDF : 6629.9/16
 Right Out: -1.628 ± 0.066 χ^2/NDF : 2422.3/18
 Left In: -1.170 ± 0.045 χ^2/NDF : 6550.2/14

Left: -1.217 ± 0.034 χ^2/NDF : 13182.6/31
 Right: -1.609 ± 0.048 χ^2/NDF : 6895.1/34
 In: -1.289 ± 0.038 χ^2/NDF : 11047.4/30
 Out: -1.406 ± 0.040 χ^2/NDF : 9070.2/35

All: -1.345 ± 0.028 χ^2/NDF : 20122.1/66

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.273 ± 0.004 χ^2/NDF : 11856.3/15

Left Out: -0.128 ± 0.002 χ^2/NDF : 3155.4/16

Right Out: -0.172 ± 0.004 χ^2/NDF : 15322.3/18

Left In: -0.097 ± 0.002 χ^2/NDF : 3227.9/14

Left: -0.110 ± 0.001 χ^2/NDF : 6498.6/31

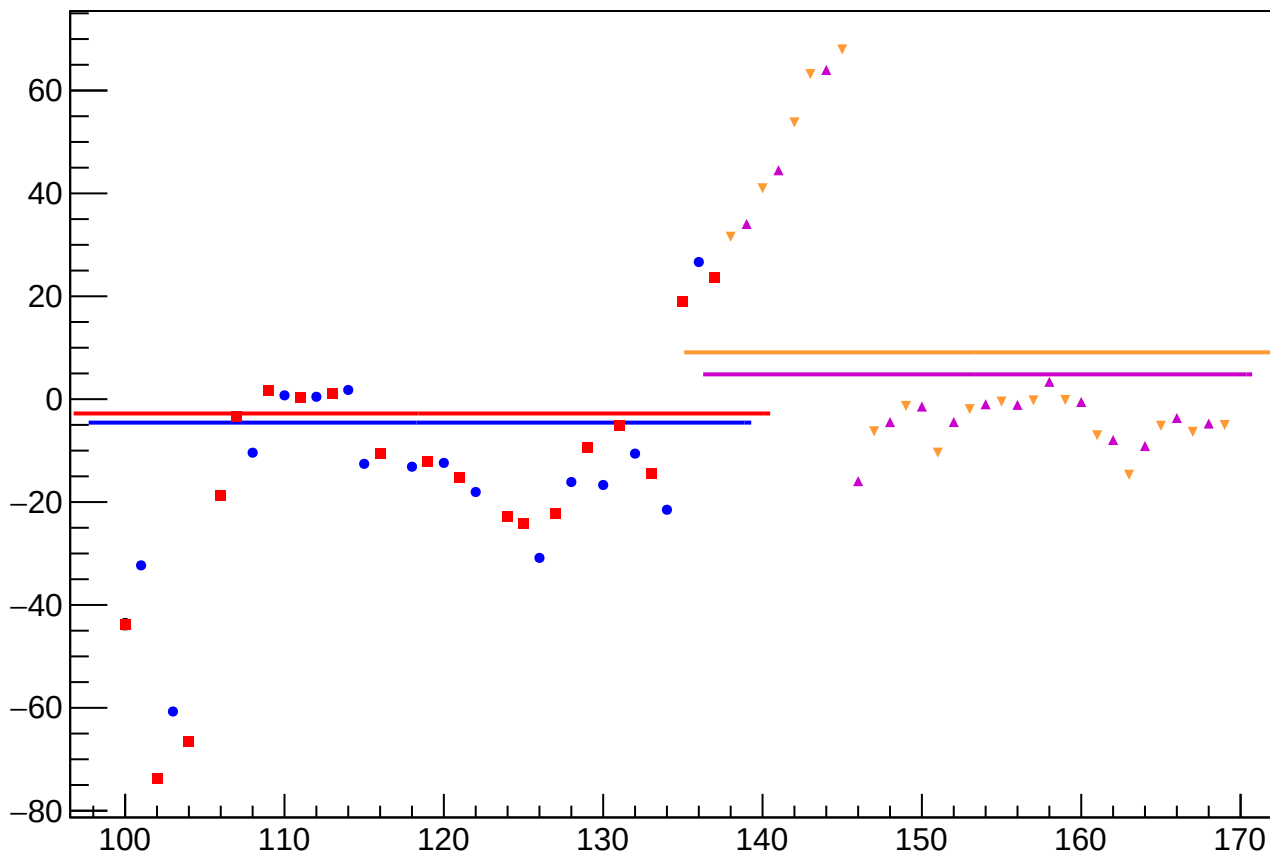
Right: -0.218 ± 0.003 χ^2/NDF : 27488.4/34

In: -0.127 ± 0.002 χ^2/NDF : 16525.5/30

Out: -0.139 ± 0.002 χ^2/NDF : 18574.6/35

All: -0.132 ± 0.001 χ^2/NDF : 35122.4/66

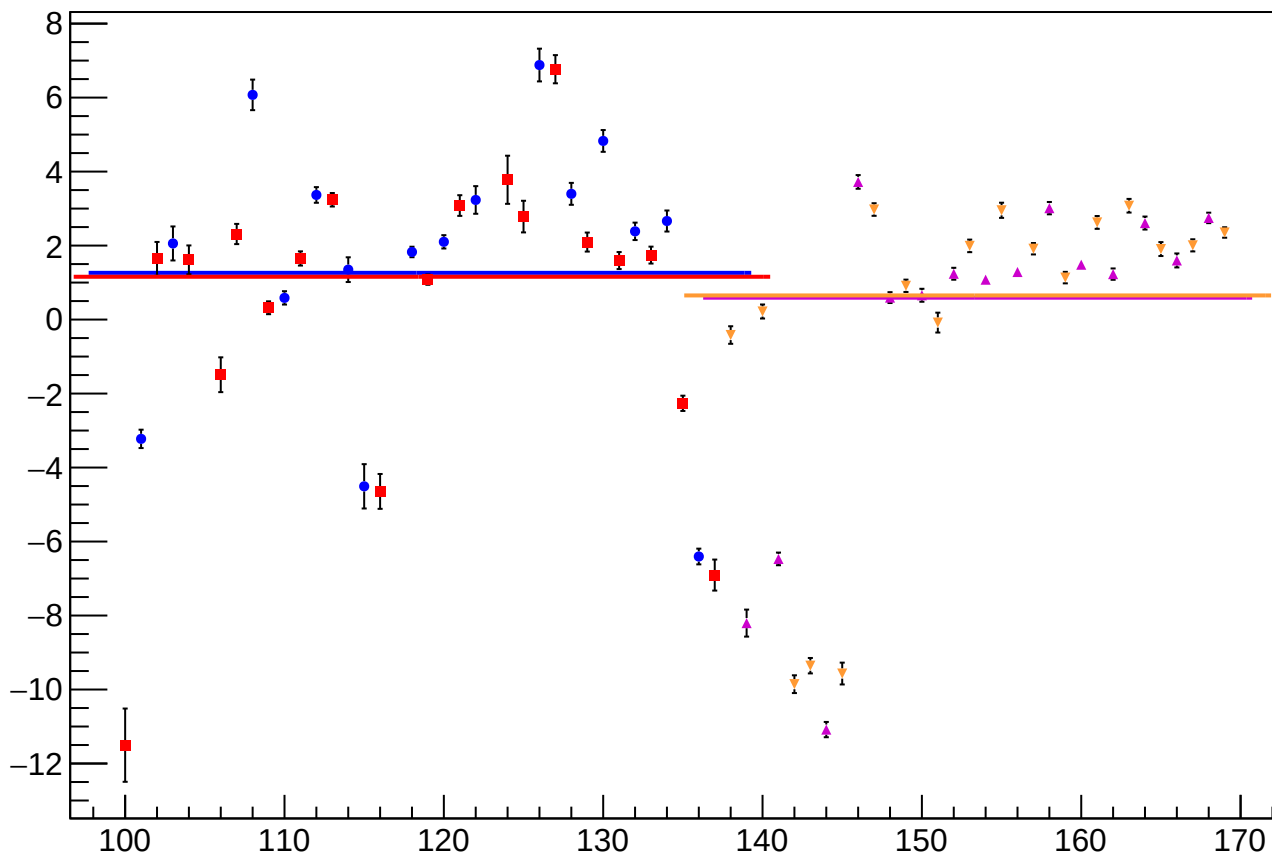
reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.557 ± 0.057 $\chi^2/\text{NDF}: 72635.2/15$
 Left Out: 9.099 ± 0.062 $\chi^2/\text{NDF}: 147217.5/16$
 Right Out: -2.780 ± 0.049 $\chi^2/\text{NDF}: 77905.3/18$
 Left In: 4.821 ± 0.056 $\chi^2/\text{NDF}: 116845.3/14$

Left: 6.742 ± 0.042 $\chi^2/\text{NDF}: 266684.2/31$
 Right: -3.530 ± 0.037 $\chi^2/\text{NDF}: 151106.4/34$
 In: 0.200 ± 0.040 $\chi^2/\text{NDF}: 203308.5/30$
 Out: 1.730 ± 0.038 $\chi^2/\text{NDF}: 247887.7/35$
 All: 0.997 ± 0.028 $\chi^2/\text{NDF}: 451963.5/66$

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.263 $\pm$ 0.062 χ^2 /NDF: 2443.8/15

Left Out: 0.652 $\pm$ 0.045 χ^2 /NDF:6461.3/16

Right Out: 1.157 $\pm$ 0.059 χ^2 /NDF: 1490.5/18

Left In: 0.591 $\pm$ 0.040 χ^2 /NDF:6496.8/14

Left: 0.619 $\pm$ 0.030 χ^2 /NDF: 12959.1/31

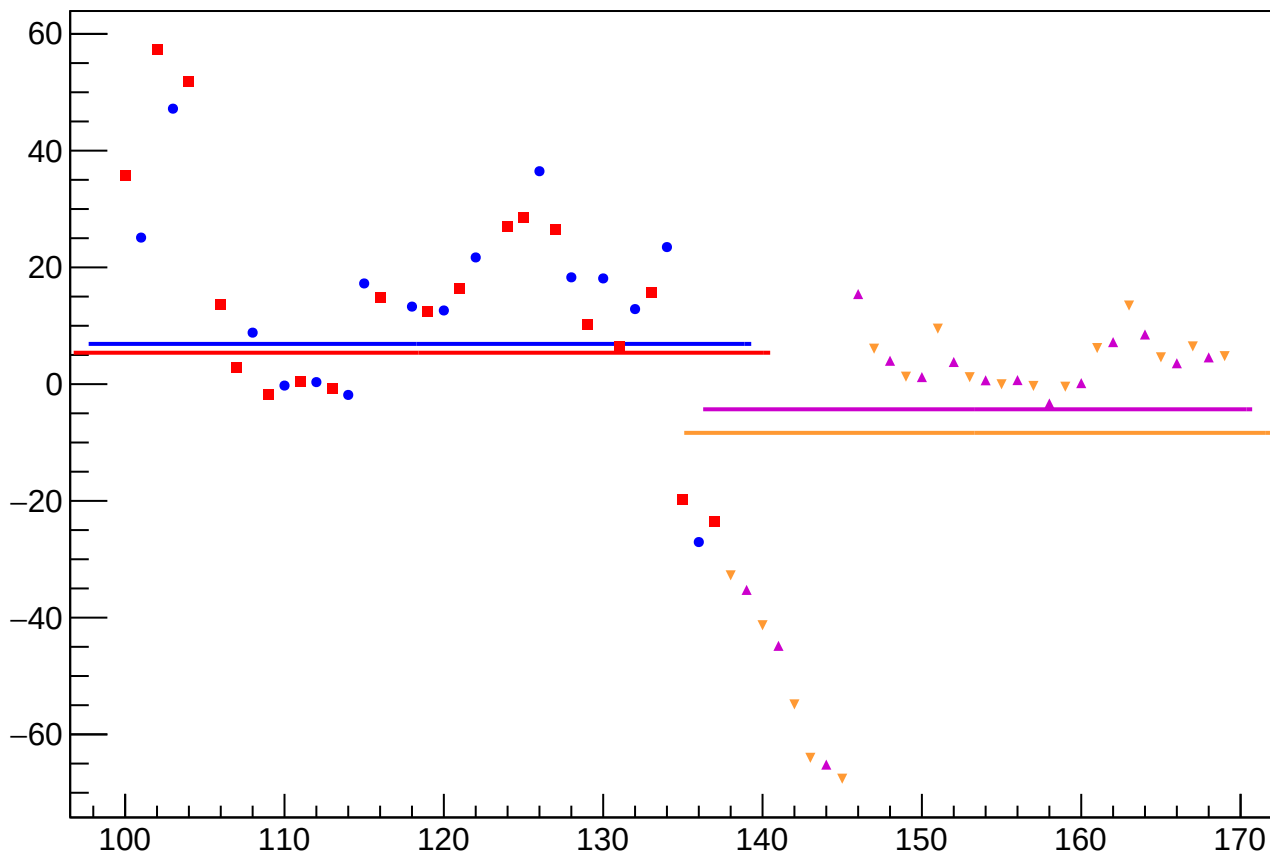
Right: 1.208 $\pm$ 0.043 χ^2 /NDF: 3935.9/34

In: 0.790 $\pm$ 0.034 χ^2 /NDF:9023.2/30

Out: 0.836 $\pm$ 0.036 χ^2 /NDF:7998.2/35

All: 0.812 $\pm$ 0.025 χ^2 /NDF: 17022.3/66

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.895 ± 0.067 χ^2/NDF : 68047.4/15

Left Out: -8.345 ± 0.061 χ^2/NDF : 143469.0/16

Right Out: 5.381 ± 0.062 χ^2/NDF : 72230.2/18

Left In: -4.309 ± 0.054 χ^2/NDF : 114682.9/14

Left: -6.095 ± 0.040 χ^2/NDF : 260626.0/31

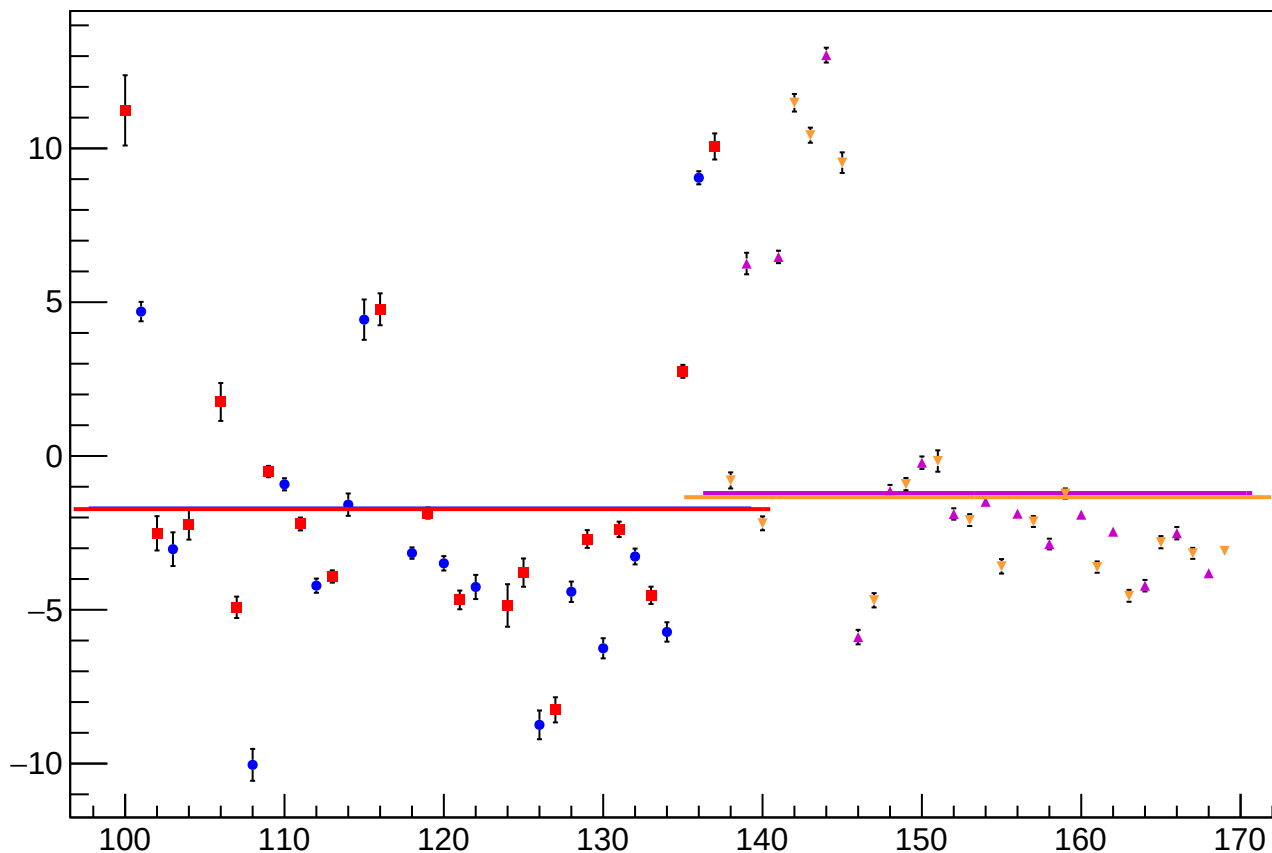
Right: 6.071 ± 0.045 χ^2/NDF : 140552.1/34

In: 0.071 ± 0.042 χ^2/NDF : 199578.0/30

Out: -1.606 ± 0.043 χ^2/NDF : 240903.3/35

All: -0.746 ± 0.030 χ^2/NDF : 441254.0/66

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs Slug, Sign Corrected

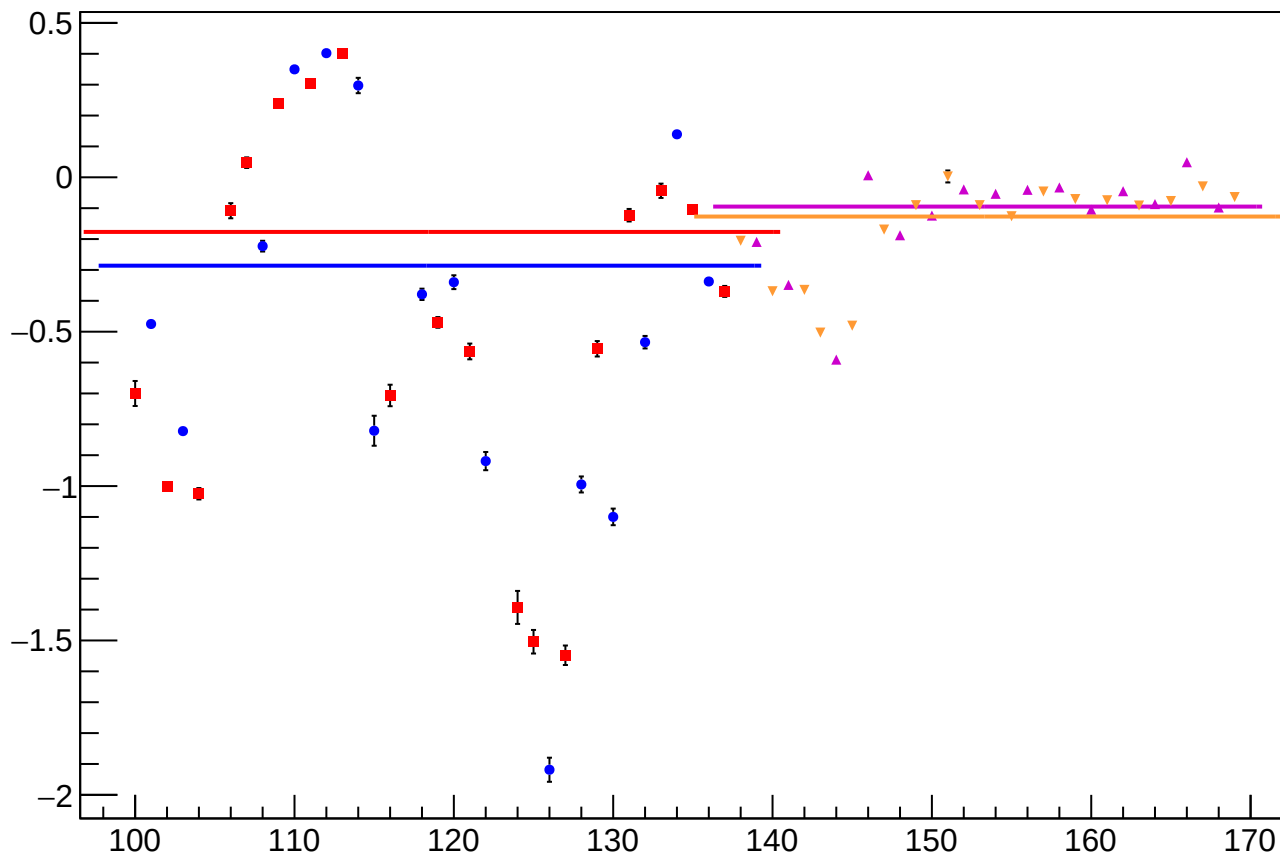


Right In: -1.708 ± 0.072 χ^2/NDF : 4289.8/15
 Left Out: -1.340 ± 0.051 χ^2/NDF : 6432.9/16
 Right Out: -1.727 ± 0.067 χ^2/NDF : 2309.6/18
 Left In: -1.205 ± 0.046 χ^2/NDF : 6540.3/14

Left: -1.266 ± 0.034 χ^2/NDF : 12977.1/31
 Right: -1.718 ± 0.049 χ^2/NDF : 6599.4/34
 In: -1.351 ± 0.038 χ^2/NDF : 10865.1/30
 Out: -1.481 ± 0.040 χ^2/NDF : 8763.8/35

All: -1.413 ± 0.028 χ^2/NDF : 19634.4/66

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.286 ± 0.004 χ^2/NDF : 11361.1/15

Left Out: -0.127 ± 0.002 χ^2/NDF : 3096.0/16

Right Out: -0.177 ± 0.004 χ^2/NDF : 14767.8/18

Left In: -0.095 ± 0.002 χ^2/NDF : 3119.0/14

Left: -0.109 ± 0.001 χ^2/NDF : 6334.1/31

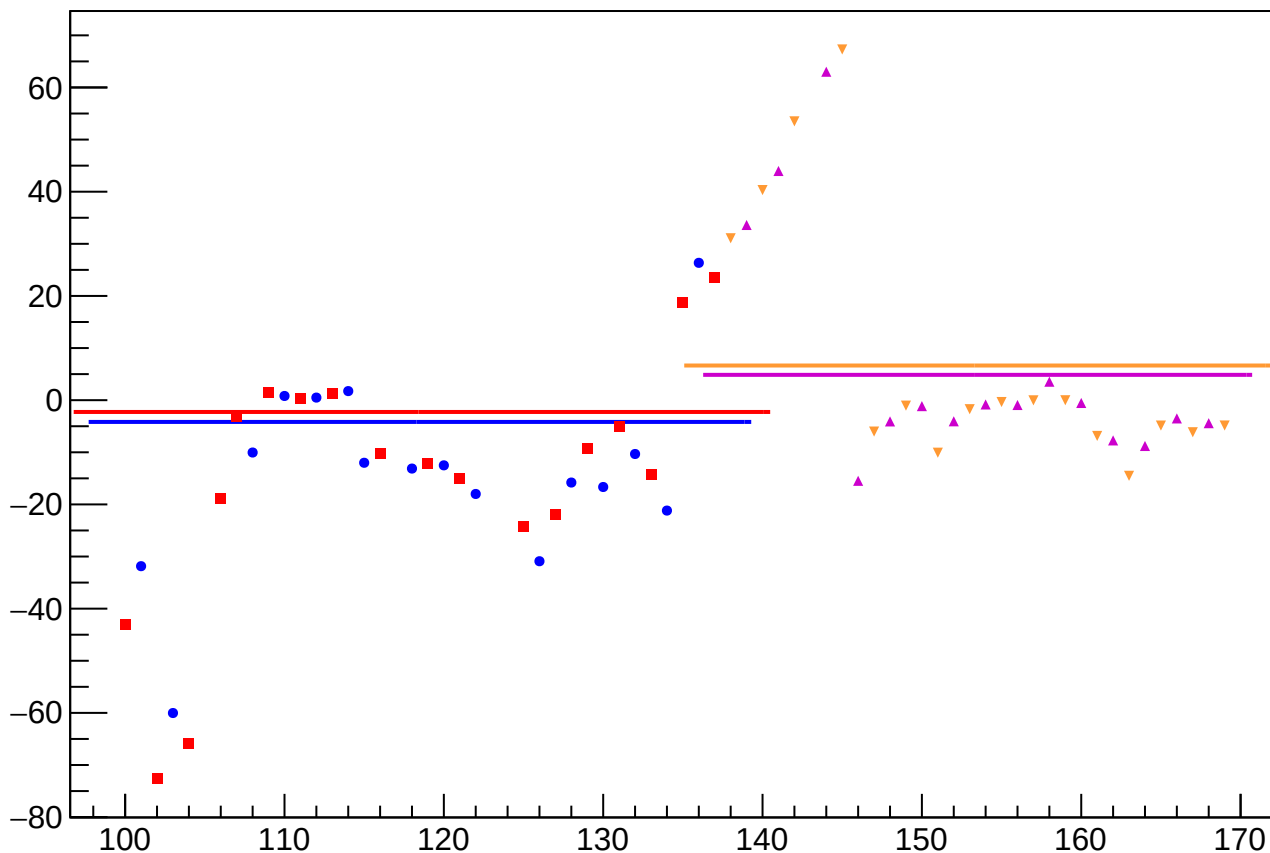
Right: -0.227 ± 0.003 χ^2/NDF : 26481.0/34

In: -0.127 ± 0.002 χ^2/NDF : 16138.5/30

Out: -0.139 ± 0.002 χ^2/NDF : 17984.4/35

All: -0.133 ± 0.001 χ^2/NDF : 34142.7/66

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.173 ± 0.054 $\chi^2/\text{NDF}: 75394.5/15$

Left Out: 6.652 ± 0.062 $\chi^2/\text{NDF}: 113956.1/15$

Right Out: -2.261 ± 0.046 $\chi^2/\text{NDF}: 79624.4/17$

Left In: 4.859 ± 0.054 $\chi^2/\text{NDF}: 120229.4/14$

Left: 5.635 ± 0.041 $\chi^2/\text{NDF}: 234664.0/30$

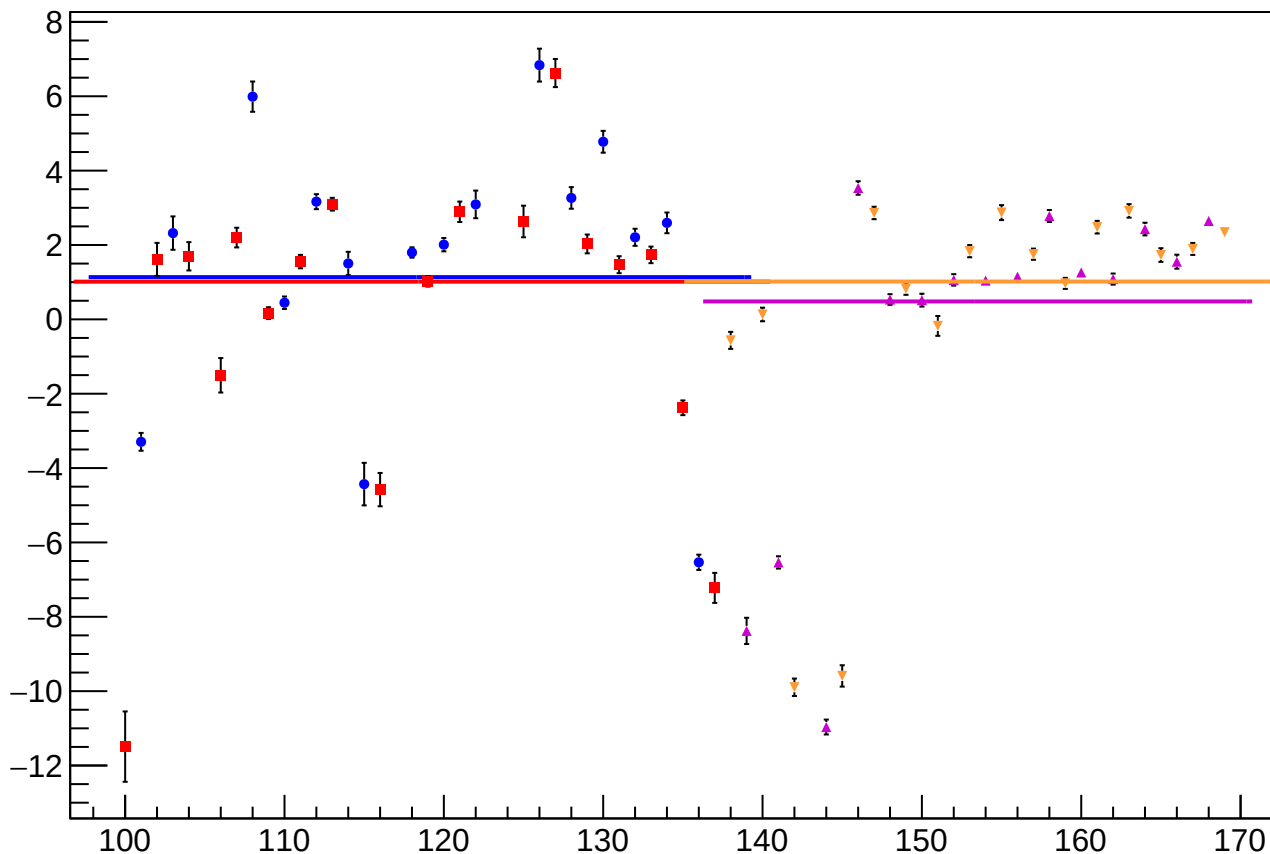
Right: -3.058 ± 0.035 $\chi^2/\text{NDF}: 155737.8/33$

In: 0.389 ± 0.038 $\chi^2/\text{NDF}: 209521.9/30$

Out: 0.926 ± 0.037 $\chi^2/\text{NDF}: 206983.7/33$

All: 0.668 ± 0.027 $\chi^2/\text{NDF}: 416607.8/64$

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.135 $\pm$ 0.060 χ^2 /NDF: 2595.7/15

Left Out: 1.016 $\pm$ 0.044 χ^2 /NDF:4203.3/15

Right Out: 1.014 $\pm$ 0.057 χ^2 /NDF: 1593.0/17

Left In: 0.482 $\pm$ 0.039 χ^2 /NDF:6717.2/14

Left: 0.712 $\pm$ 0.029 χ^2 /NDF: 11002.7/30

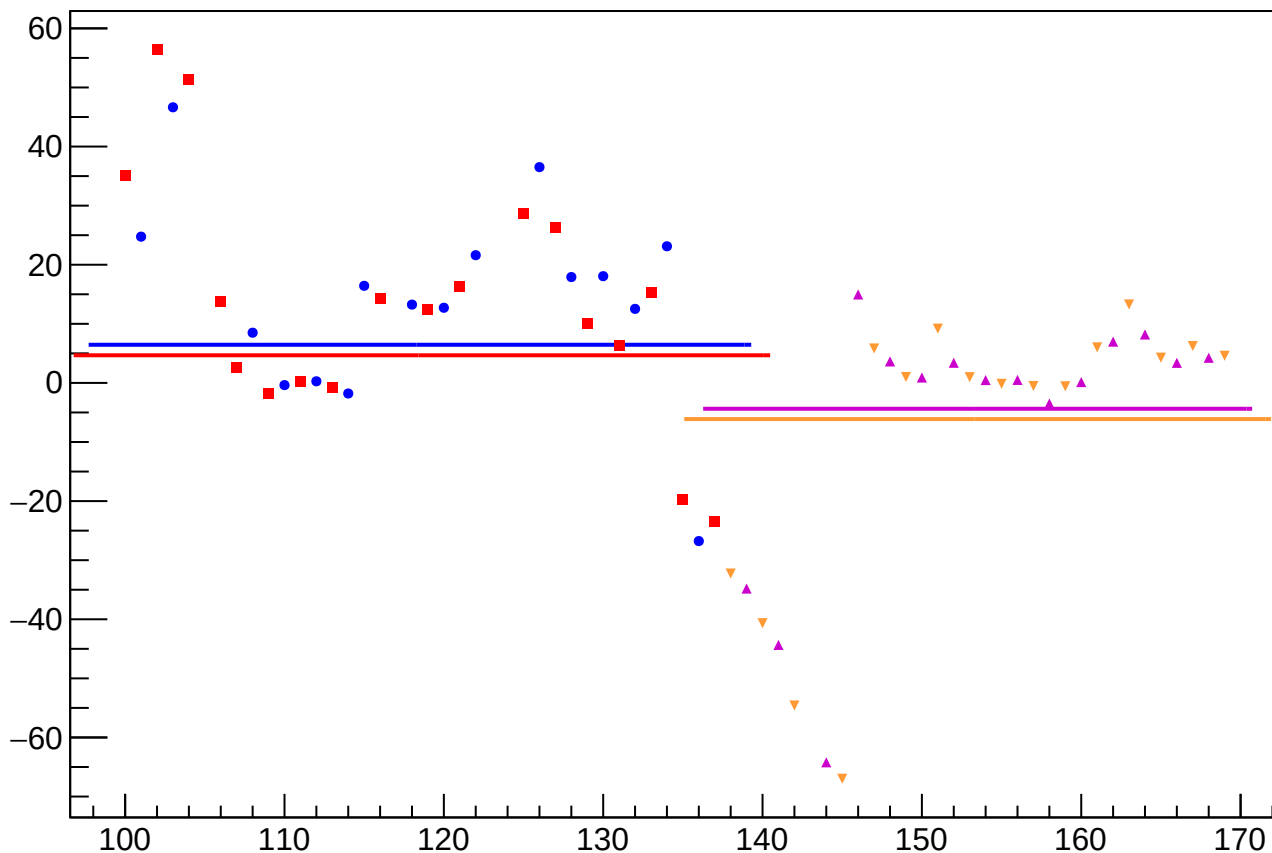
Right: 1.072 $\pm$ 0.041 χ^2 /NDF: 4190.8/33

In: 0.673 $\pm$ 0.033 χ^2 /NDF:9396.3/30

Out: 1.016 $\pm$ 0.035 χ^2 /NDF:5796.3/33

All: 0.831 $\pm$ 0.024 χ^2 /NDF: 15243.8/64

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



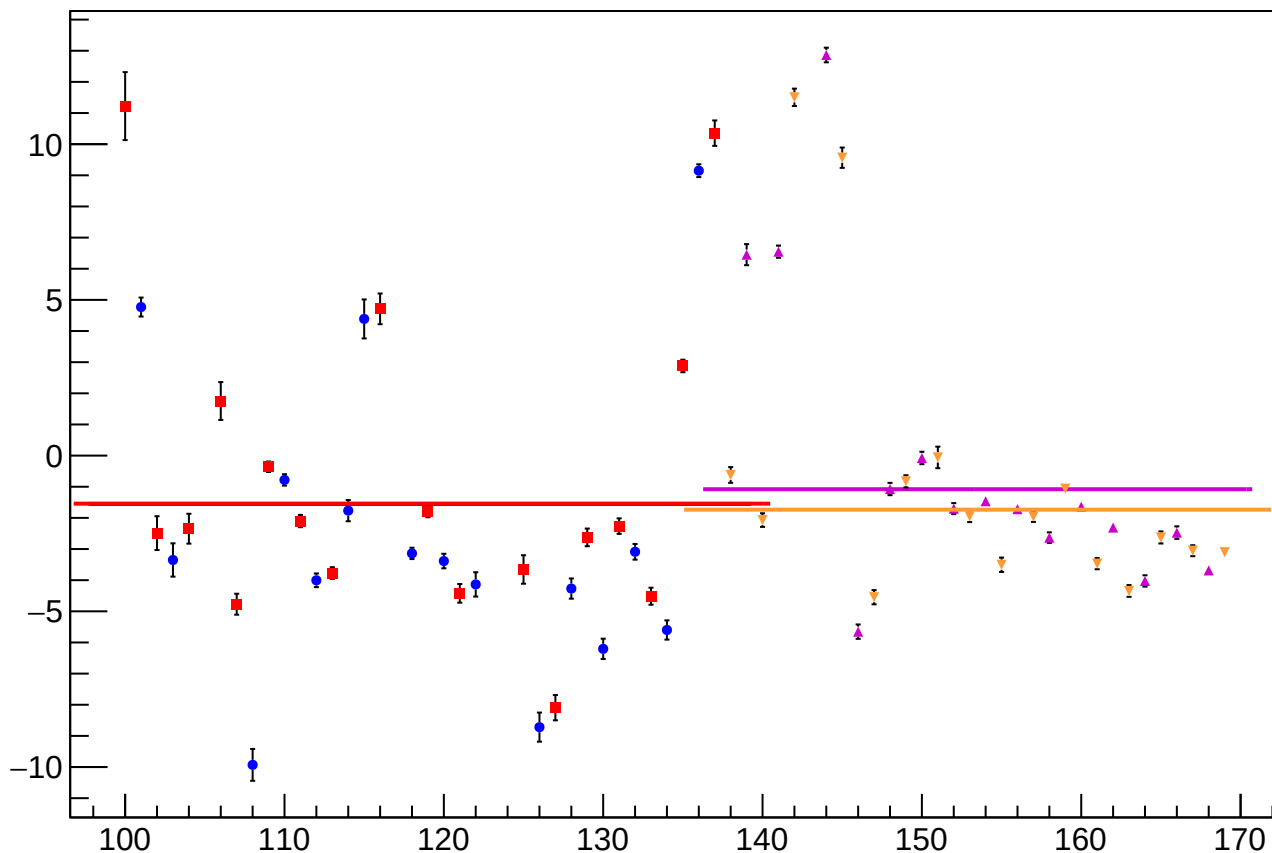
Right In: 6.458 $\pm$ 0.065 χ^2 /NDF: 70792.7/15
 Left Out: -6.117 $\pm$ 0.060 χ^2 /NDF:110341.6/15
 Right Out: 4.677 $\pm$ 0.059 χ^2 /NDF: 74414.5/17
 Left In: -4.375 $\pm$ 0.052 χ^2 /NDF:118066.8/14

Left: -5.119 $\pm$ 0.039 χ^2 /NDF: 228889.6/30
 Right: 5.483 $\pm$ 0.044 χ^2 /NDF: 145618.4/33

In: -0.152 $\pm$ 0.041 χ^2 /NDF:205826.4/30
 Out: -0.625 $\pm$ 0.042 χ^2 /NDF:201148.0/33

All: -0.379 $\pm$ 0.029 χ^2 /NDF: 407039.8/64

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected

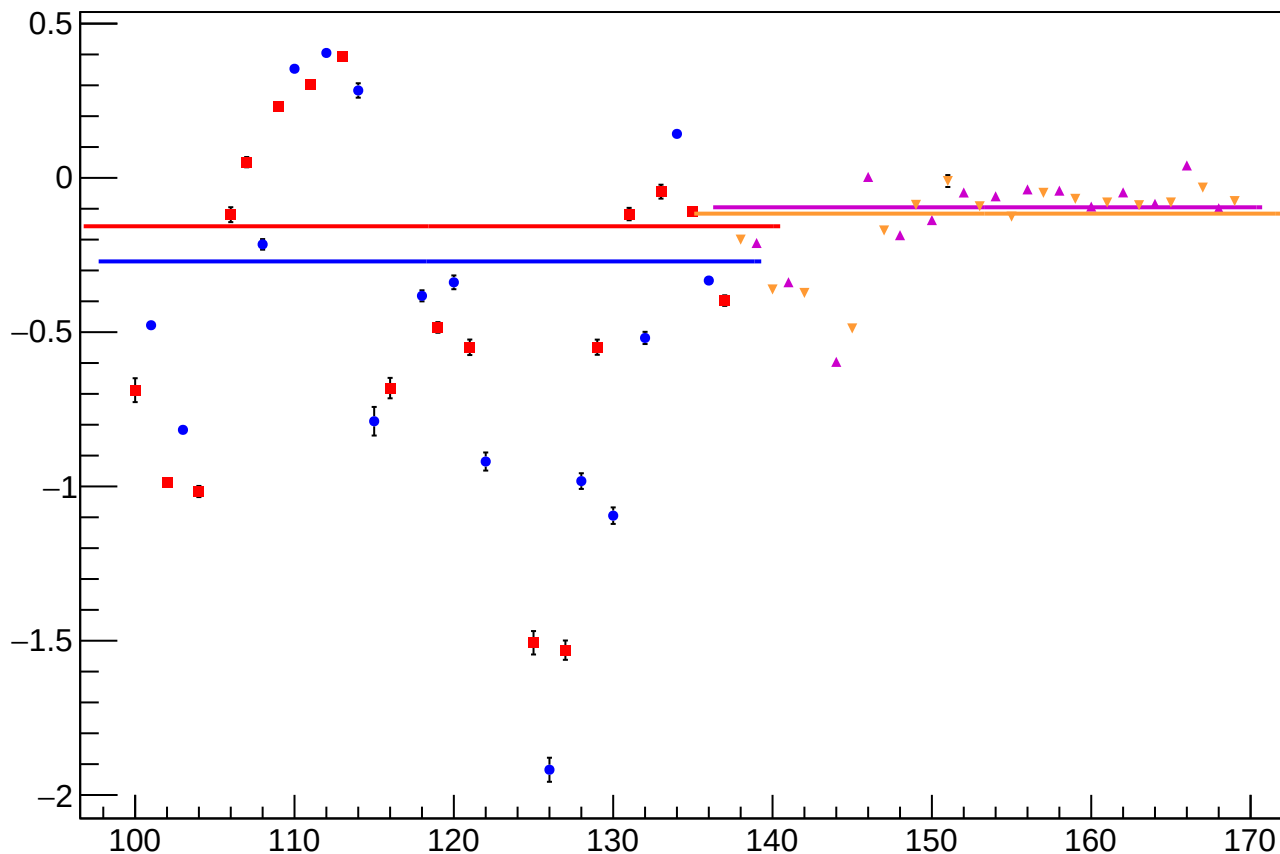


Right In: -1.552 ± 0.069 $\chi^2/\text{NDF}: 4543.6/15$
 Left Out: -1.736 ± 0.050 $\chi^2/\text{NDF}: 4189.4/15$
 Right Out: -1.543 ± 0.065 $\chi^2/\text{NDF}: 2473.0/17$
 Left In: -1.079 ± 0.044 $\chi^2/\text{NDF}: 6740.2/14$

Left: -1.363 ± 0.033 $\chi^2/\text{NDF}: 11026.3/30$
 Right: -1.547 ± 0.047 $\chi^2/\text{NDF}: 7016.6/33$
 In: -1.215 ± 0.037 $\chi^2/\text{NDF}: 11317.0/30$
 Out: -1.663 ± 0.040 $\chi^2/\text{NDF}: 6668.0/33$

All: -1.424 ± 0.027 $\chi^2/\text{NDF}: 18053.1/64$

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.271 ± 0.004 $\chi^2/\text{NDF}: 12096.1/15$

Left Out: -0.116 ± 0.002 $\chi^2/\text{NDF}: 2180.8/15$

Right Out: -0.157 ± 0.004 $\chi^2/\text{NDF}: 15019.0/17$

Left In: -0.095 ± 0.002 $\chi^2/\text{NDF}: 3230.1/14$

Left: -0.104 ± 0.001 $\chi^2/\text{NDF}: 5461.7/30$

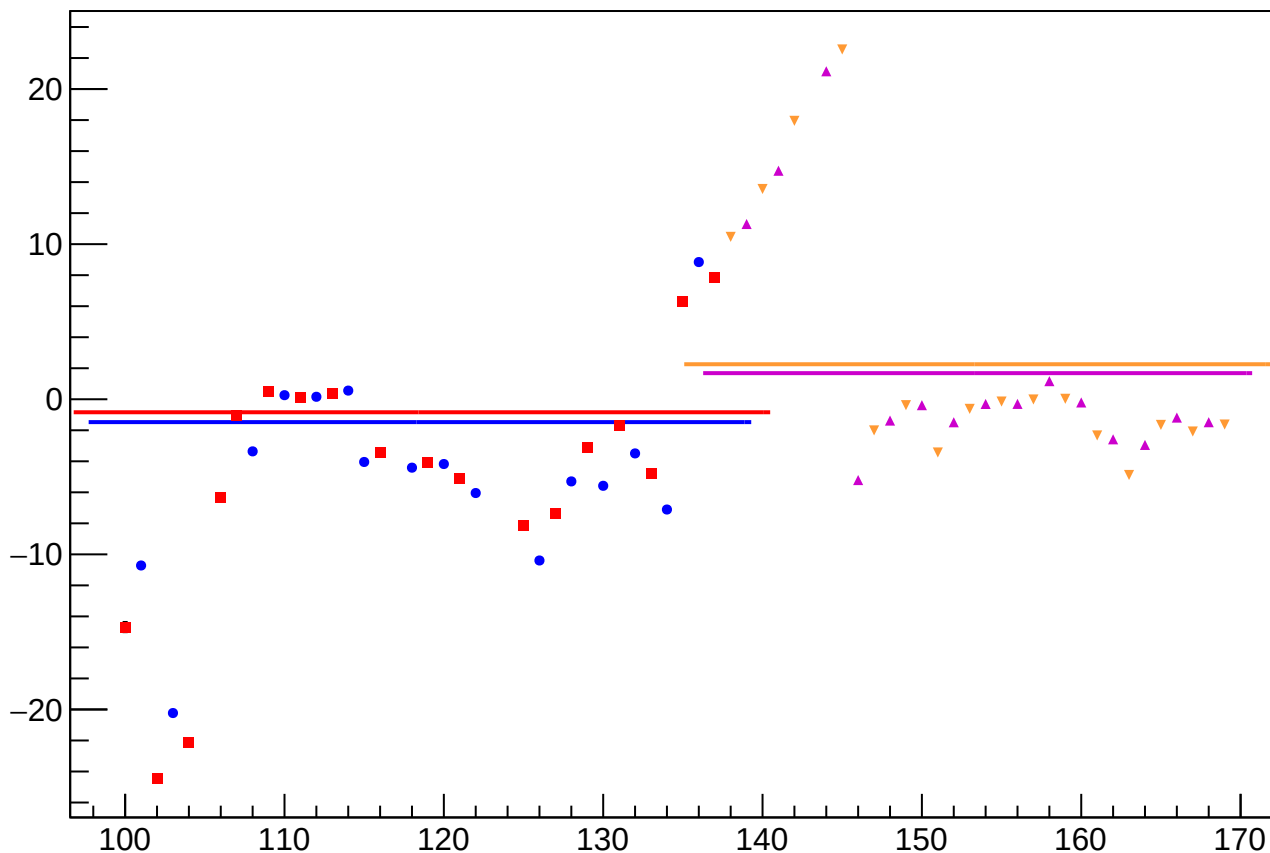
Right: -0.209 ± 0.003 $\chi^2/\text{NDF}: 27526.5/33$

In: -0.125 ± 0.002 $\chi^2/\text{NDF}: 16818.4/30$

Out: -0.126 ± 0.002 $\chi^2/\text{NDF}: 17286.8/33$

All: -0.125 ± 0.001 $\chi^2/\text{NDF}: 34105.5/64$

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -1.474 ± 0.019 χ^2/NDF : 73722.2/15

Left Out: 2.258 ± 0.021 χ^2/NDF : 111957.6/15

Right Out: -0.838 ± 0.016 χ^2/NDF : 78013.1/17

Left In: 1.684 ± 0.019 χ^2/NDF : 117592.1/14

Left: 1.934 ± 0.014 χ^2/NDF : 229968.5/30

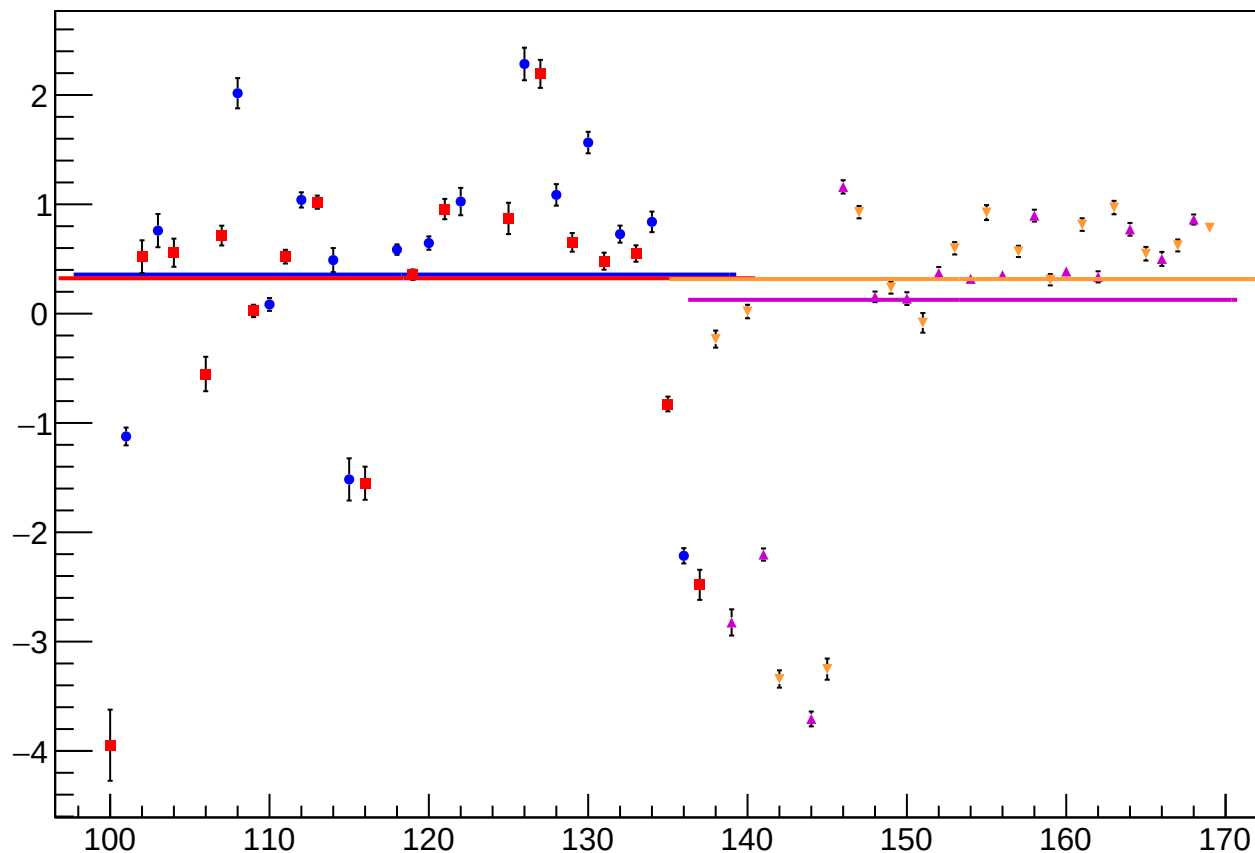
Right: -1.107 ± 0.012 χ^2/NDF : 152399.4/33

In: 0.122 ± 0.013 χ^2/NDF : 205669.1/30

Out: 0.298 ± 0.013 χ^2/NDF : 203666.0/33

All: 0.213 ± 0.009 χ^2/NDF : 409427.3/64

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 0.357 ± 0.021 $\chi^2/\text{NDF}: 2543.0/15$

Left Out: 0.316 ± 0.015 $\chi^2/\text{NDF}: 4160.7/15$

Right Out: 0.324 ± 0.020 $\chi^2/\text{NDF}: 1558.9/17$

Left In: 0.127 ± 0.013 $\chi^2/\text{NDF}: 6546.8/14$

Left: 0.209 ± 0.010 $\chi^2/\text{NDF}: 10795.7/30$

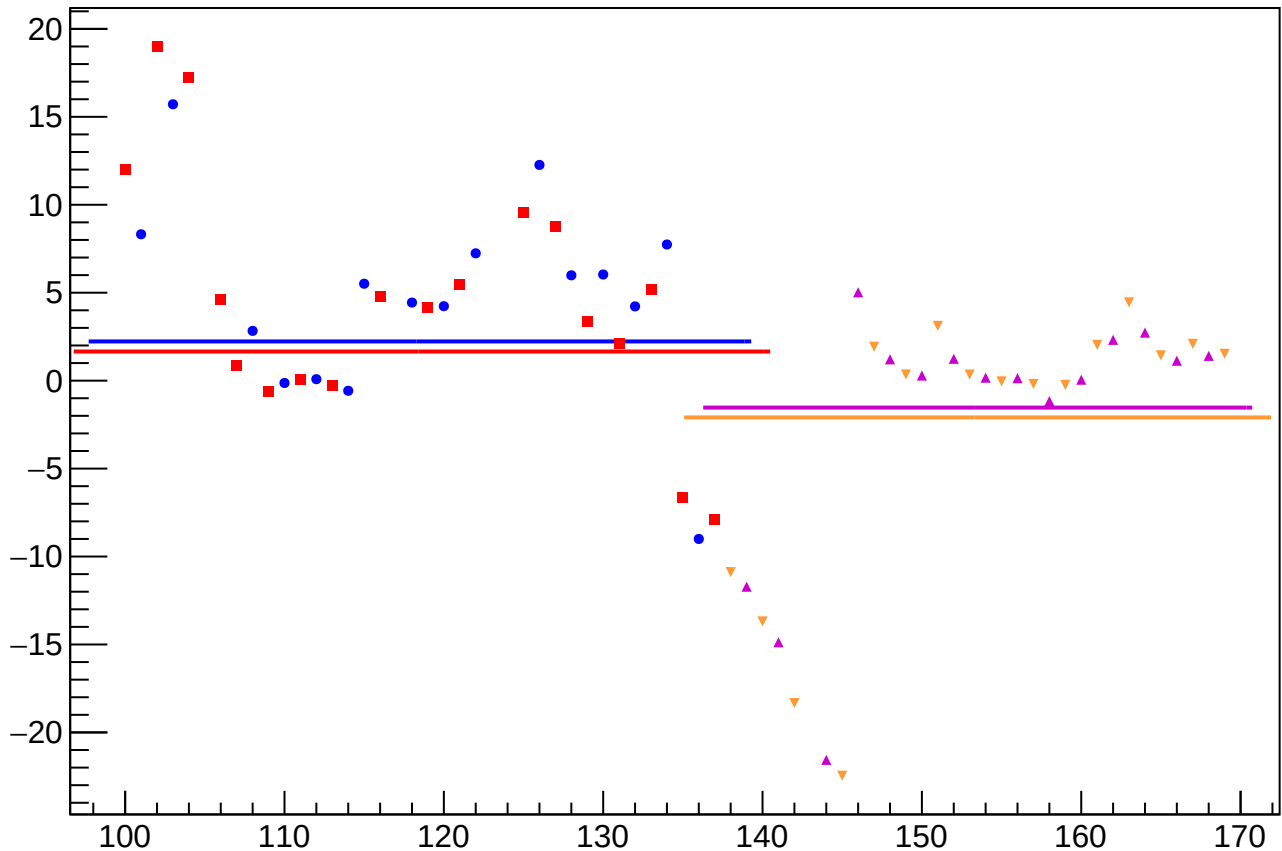
Right: 0.340 ± 0.014 $\chi^2/\text{NDF}: 4103.4/33$

In: 0.195 ± 0.011 $\chi^2/\text{NDF}: 9178.4/30$

Out: 0.319 ± 0.012 $\chi^2/\text{NDF}: 5719.7/33$

All: 0.252 ± 0.008 $\chi^2/\text{NDF}: 14955.5/64$

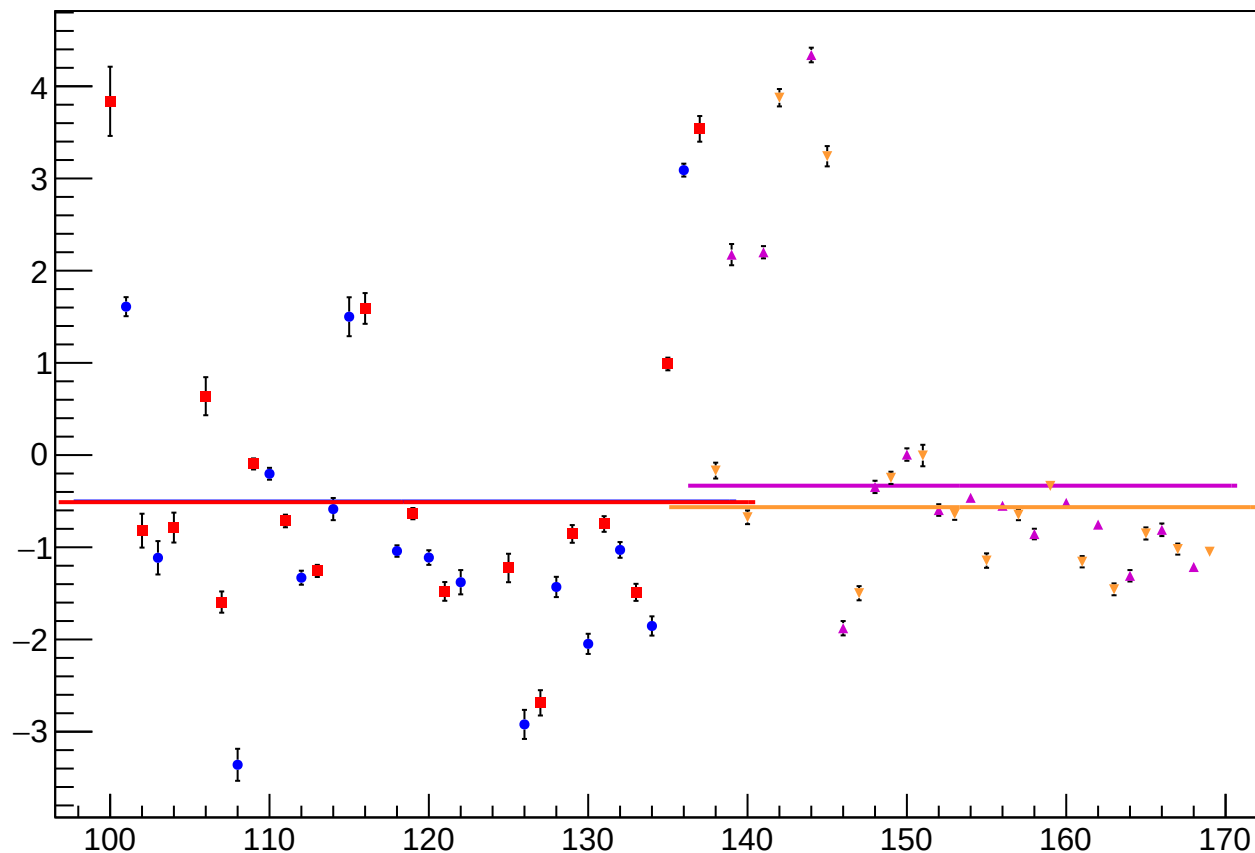
reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 2.229 ± 0.022 χ^2/NDF : 69187.1/15
 Left Out: -2.091 ± 0.021 χ^2/NDF : 108428.1/15
 Right Out: 1.657 ± 0.020 χ^2/NDF : 72797.4/17
 Left In: -1.532 ± 0.018 χ^2/NDF : 115546.6/14

Left: -1.773 ± 0.013 χ^2/NDF : 224396.7/30
 Right: 1.919 ± 0.015 χ^2/NDF : 142343.2/33
 In: -0.058 ± 0.014 χ^2/NDF : 202095.6/30
 Out: -0.210 ± 0.014 χ^2/NDF : 197960.5/33
 All: -0.131 ± 0.010 χ^2/NDF : 400113.7/64

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: -0.504 ± 0.024 χ^2/NDF : 4447.2/15

Left Out: -0.565 ± 0.017 χ^2/NDF : 4150.2/15

Right Out: -0.511 ± 0.022 χ^2/NDF : 2424.0/17

Left In: -0.332 ± 0.015 χ^2/NDF : 6578.8/14

Left: -0.434 ± 0.011 χ^2/NDF : 10832.6/30

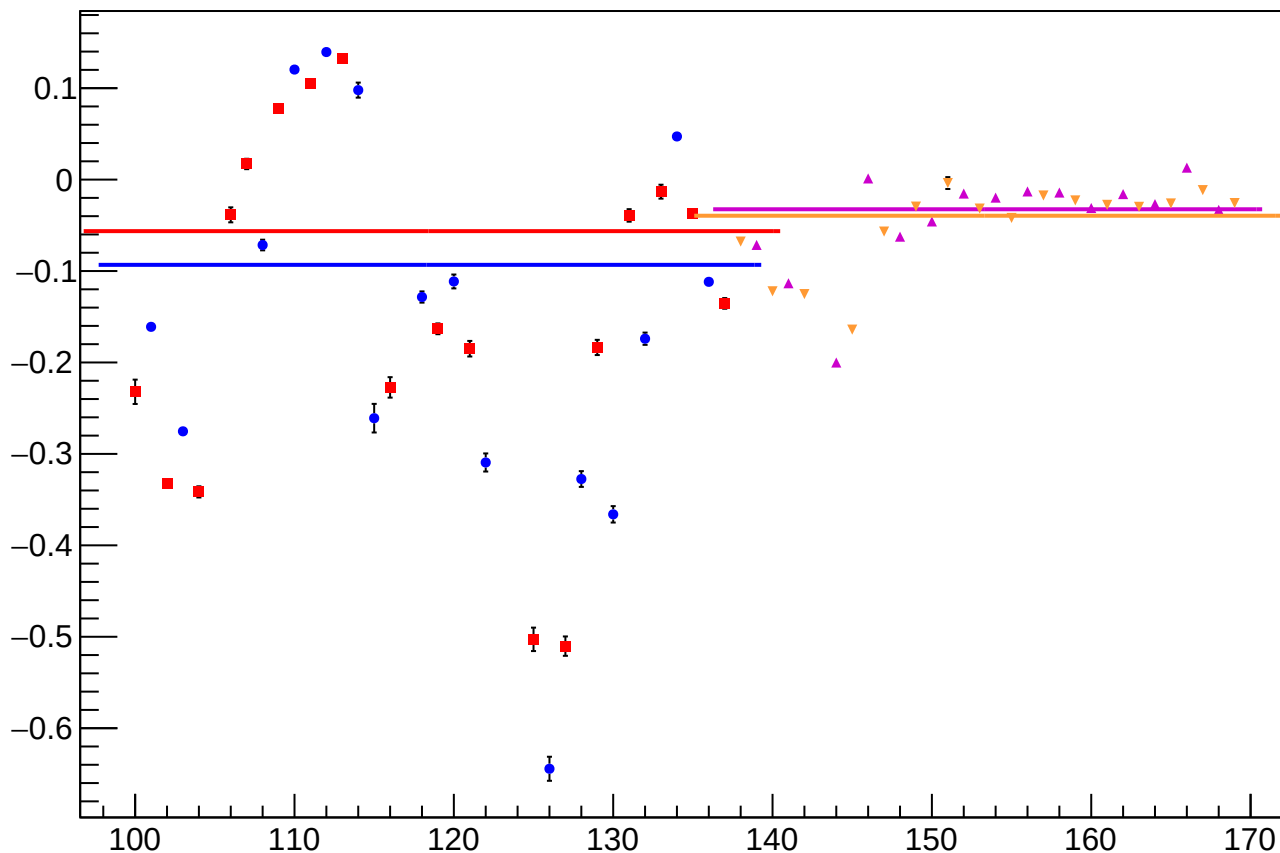
Right: -0.507 ± 0.016 χ^2/NDF : 6871.2/33

In: -0.382 ± 0.013 χ^2/NDF : 11063.3/30

Out: -0.545 ± 0.014 χ^2/NDF : 6578.0/33

All: -0.458 ± 0.009 χ^2/NDF : 17717.7/64

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.093 ± 0.001 χ^2/NDF : 11742.4/15

Left Out: -0.040 ± 0.001 χ^2/NDF : 2134.5/15

Right Out: -0.056 ± 0.001 χ^2/NDF : 14457.4/17

Left In: -0.032 ± 0.001 χ^2/NDF : 3153.9/14

Left: -0.035 ± 0.000 χ^2/NDF : 5339.5/30

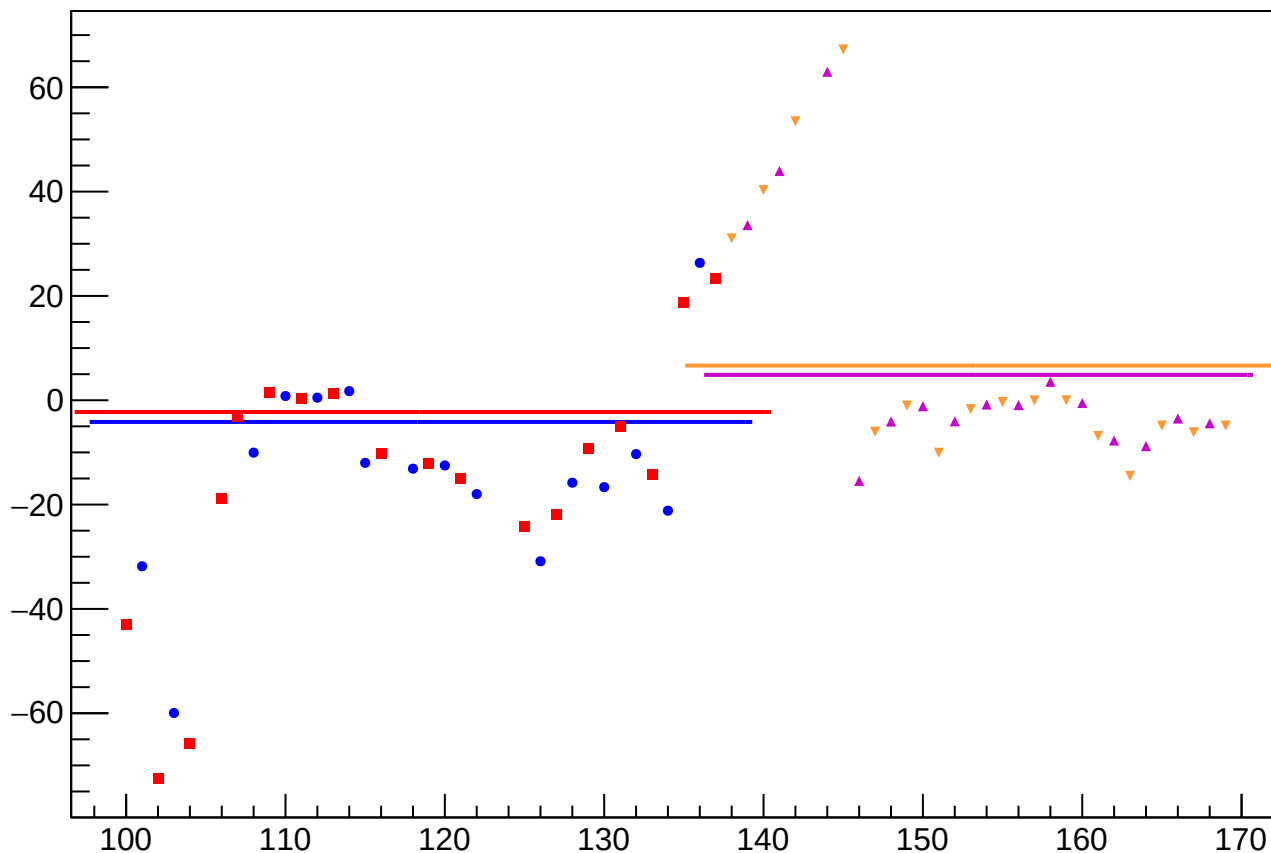
Right: -0.073 ± 0.001 χ^2/NDF : 26566.6/33

In: -0.043 ± 0.001 χ^2/NDF : 16428.2/30

Out: -0.044 ± 0.001 χ^2/NDF : 16716.8/33

All: -0.043 ± 0.000 χ^2/NDF : 33146.0/64

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -4.159 ± 0.054 χ^2/NDF : 75420.4/15

Left Out: 6.650 ± 0.062 χ^2/NDF : 113941.2/15

Right Out: -2.251 ± 0.046 χ^2/NDF : 79637.5/17

Left In: 4.858 ± 0.054 χ^2/NDF : 120245.3/14

Left: 5.633 ± 0.041 χ^2/NDF : 234665.9/30

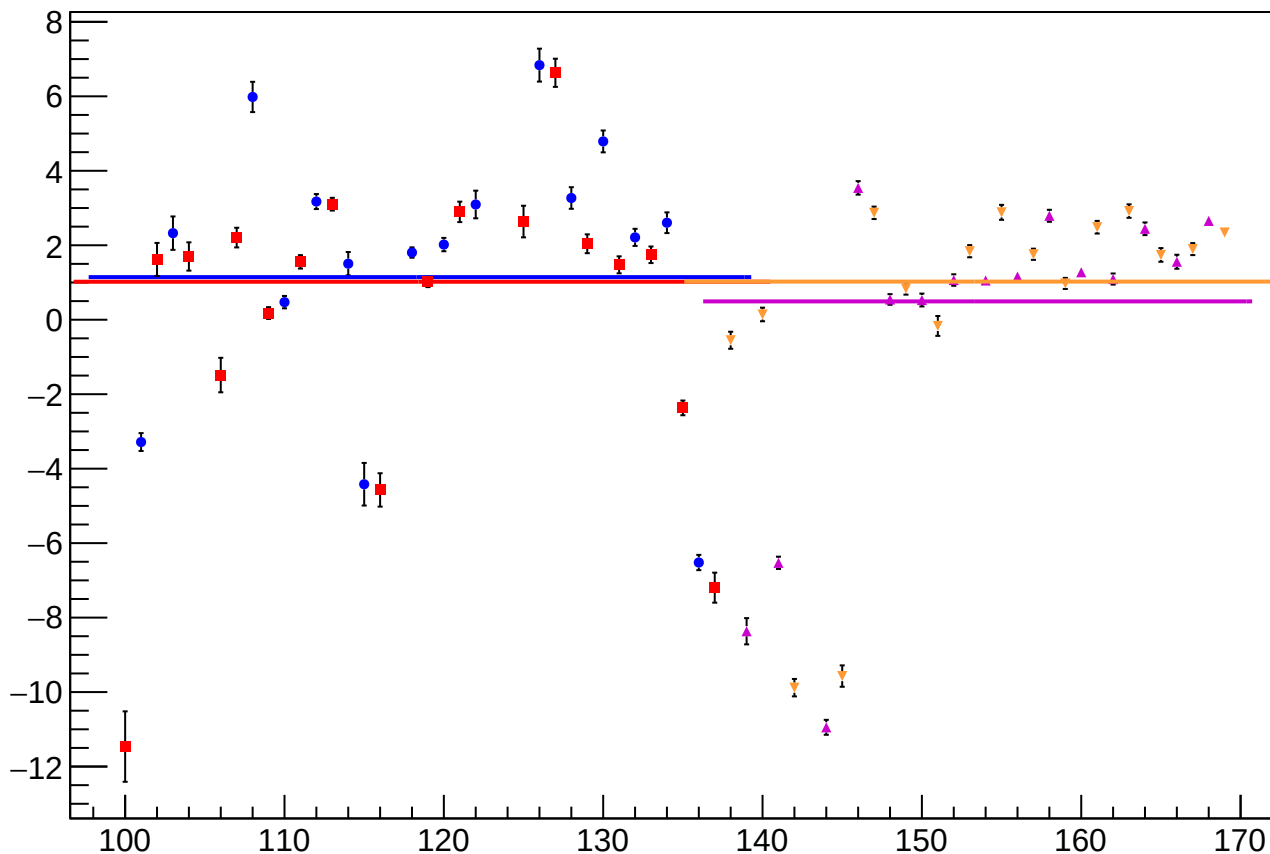
Right: -3.046 ± 0.035 χ^2/NDF : 155775.7/33

In: 0.393 ± 0.038 χ^2/NDF : 209545.4/30

Out: 0.929 ± 0.037 χ^2/NDF : 206976.7/33

All: 0.671 ± 0.027 χ^2/NDF : 416624.0/64

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: 1.144 ± 0.060 $\chi^2/\text{NDF}: 2595.3/15$

Left Out: 1.024 ± 0.044 $\chi^2/\text{NDF}: 4200.8/15$

Right Out: 1.021 ± 0.057 $\chi^2/\text{NDF}: 1591.2/17$

Left In: 0.492 ± 0.039 $\chi^2/\text{NDF}: 6722.9/14$

Left: 0.721 ± 0.029 $\chi^2/\text{NDF}: 11005.1/30$

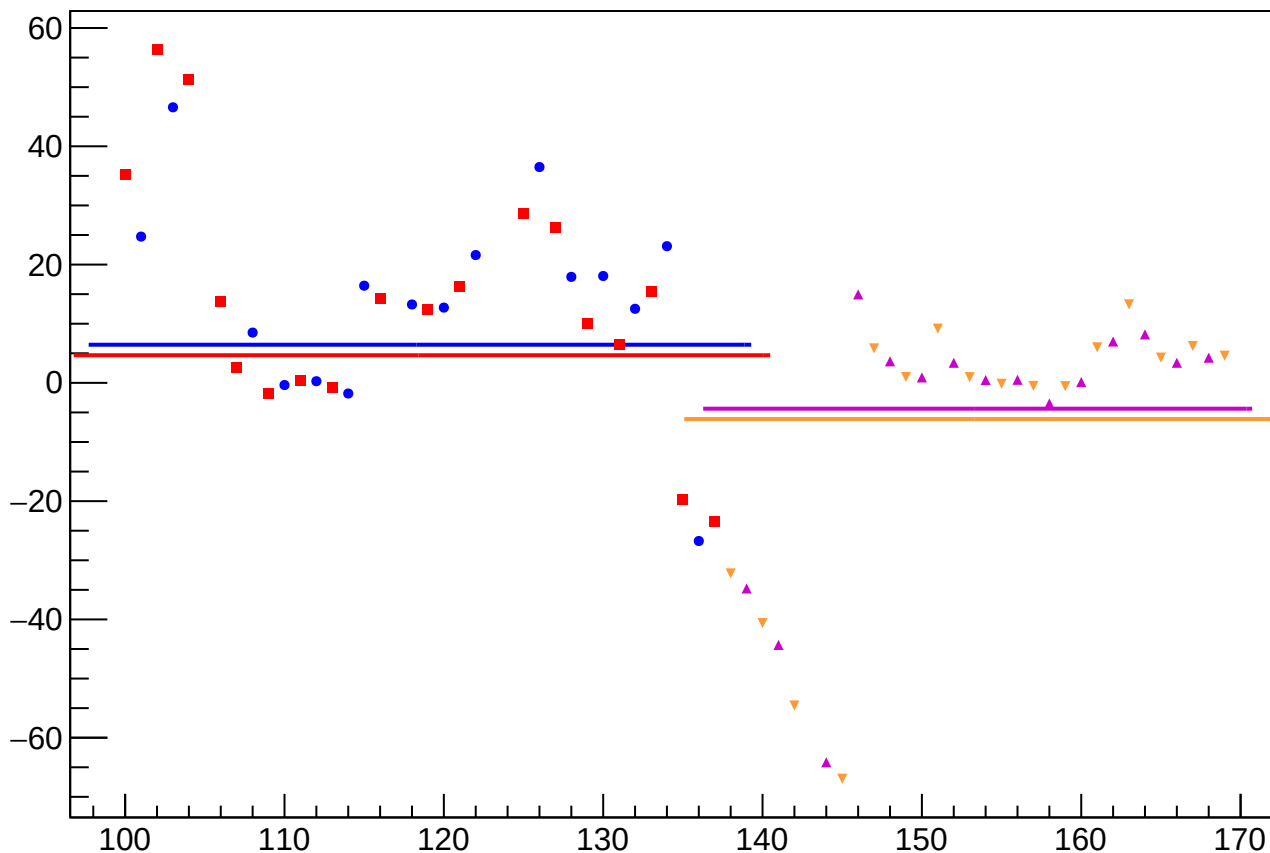
Right: 1.079 ± 0.041 $\chi^2/\text{NDF}: 4188.7/33$

In: 0.683 ± 0.033 $\chi^2/\text{NDF}: 9401.3/30$

Out: 1.023 ± 0.035 $\chi^2/\text{NDF}: 5792.0/33$

All: 0.840 ± 0.024 $\chi^2/\text{NDF}: 15243.7/64$

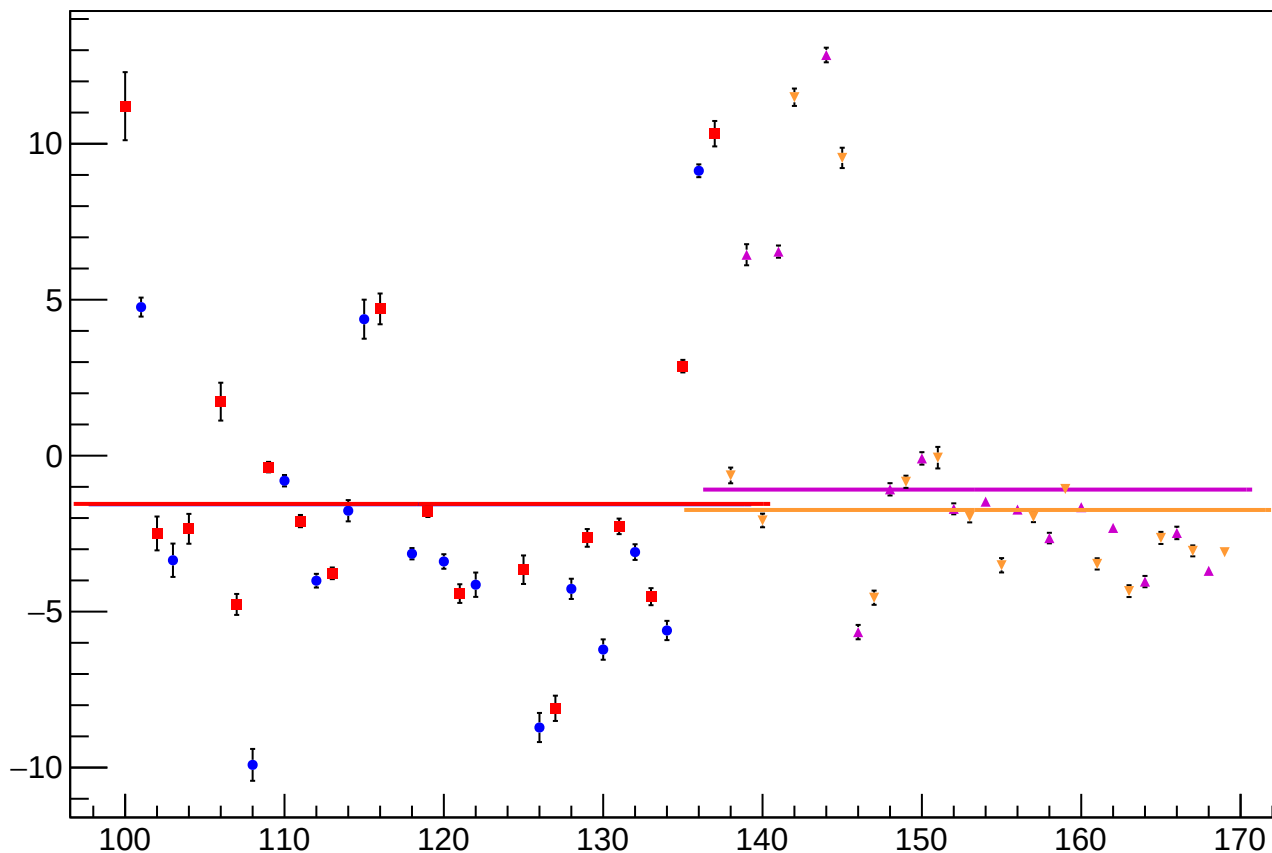
reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 6.448+/-0.065 χ^2/NDF : 70815.1/15
 Left Out: -6.111+/-0.060 χ^2/NDF : 110325.7/15
 Right Out: 4.671+/-0.059 χ^2/NDF : 74420.3/17
 Left In: -4.367+/-0.052 χ^2/NDF : 118080.2/14

Left: -5.112+/-0.039 χ^2/NDF : 228888.1/30
 Right: 5.475+/-0.044 χ^2/NDF : 145645.8/33
 In: -0.150+/-0.041 χ^2/NDF : 205842.9/30
 Out: -0.622+/-0.042 χ^2/NDF : 201133.9/33
 All: -0.377+/-0.029 χ^2/NDF : 407042.1/64

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected

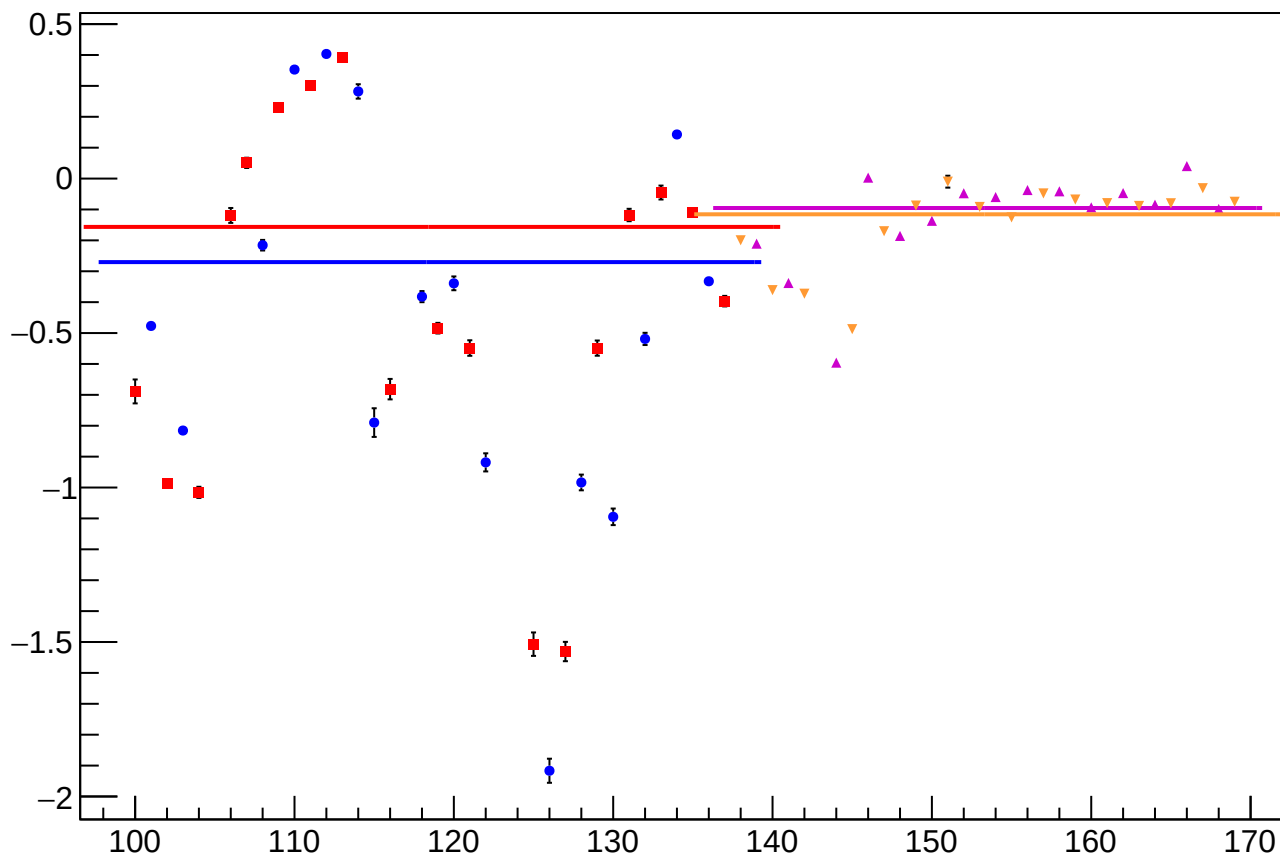


Right In: -1.558 ± 0.069 $\chi^2/\text{NDF}: 4543.1/15$
 Left Out: -1.741 ± 0.050 $\chi^2/\text{NDF}: 4186.3/15$
 Right Out: -1.547 ± 0.064 $\chi^2/\text{NDF}: 2470.1/17$
 Left In: -1.088 ± 0.044 $\chi^2/\text{NDF}: 6745.0/14$

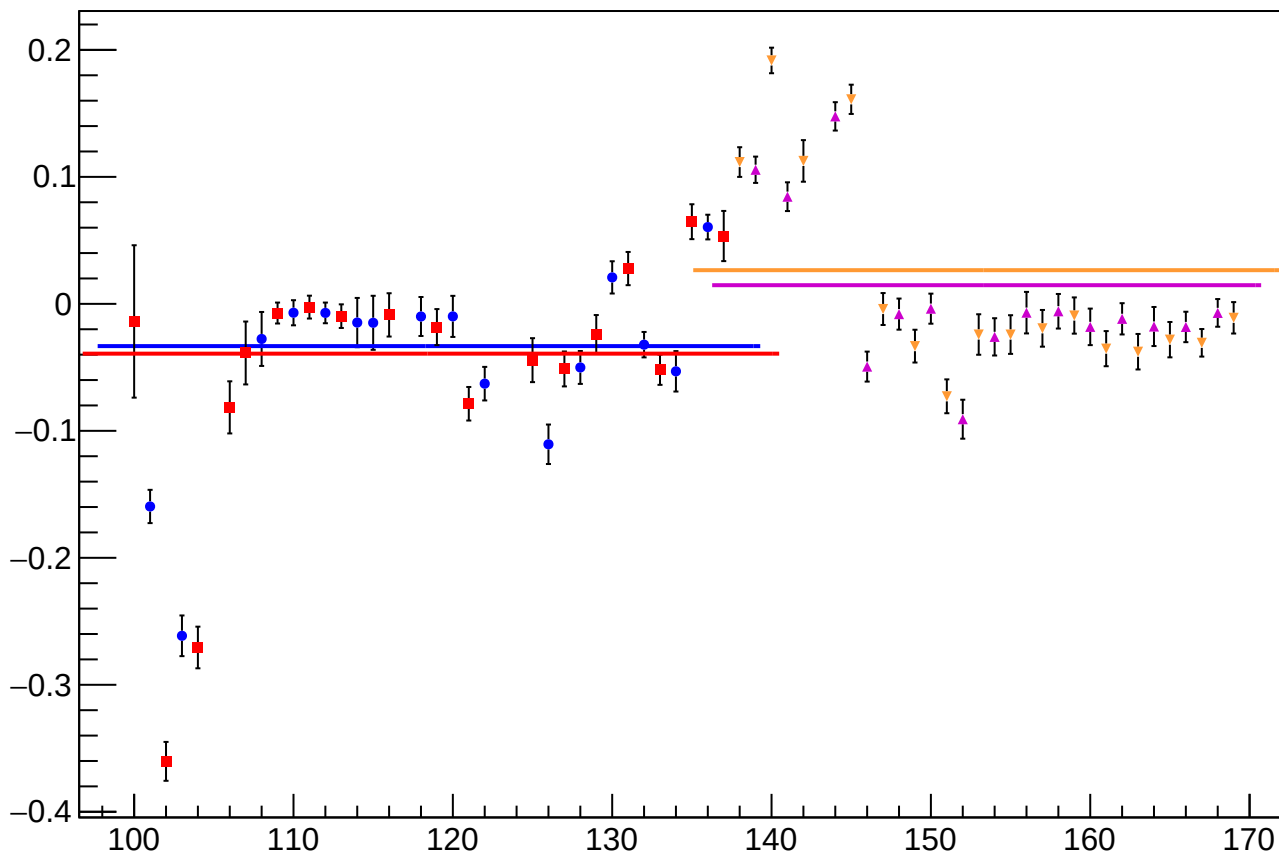
Left: -1.370 ± 0.033 $\chi^2/\text{NDF}: 11027.0/30$
 Right: -1.552 ± 0.047 $\chi^2/\text{NDF}: 7013.2/33$
 In: -1.223 ± 0.037 $\chi^2/\text{NDF}: 11321.0/30$
 Out: -1.667 ± 0.040 $\chi^2/\text{NDF}: 6662.0/33$

All: -1.430 ± 0.027 $\chi^2/\text{NDF}: 18050.2/64$

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected



reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs Slug, Sign Corrected



Right In: -0.033 ± 0.003 χ^2/NDF : 463.5/15

Left Out: 0.027 ± 0.003 χ^2/NDF : 700.0/15

Right Out: -0.039 ± 0.003 χ^2/NDF : 807.6/17

Left In: 0.015 ± 0.003 χ^2/NDF : 376.8/14

Left: 0.021 ± 0.002 χ^2/NDF : 1083.4/30

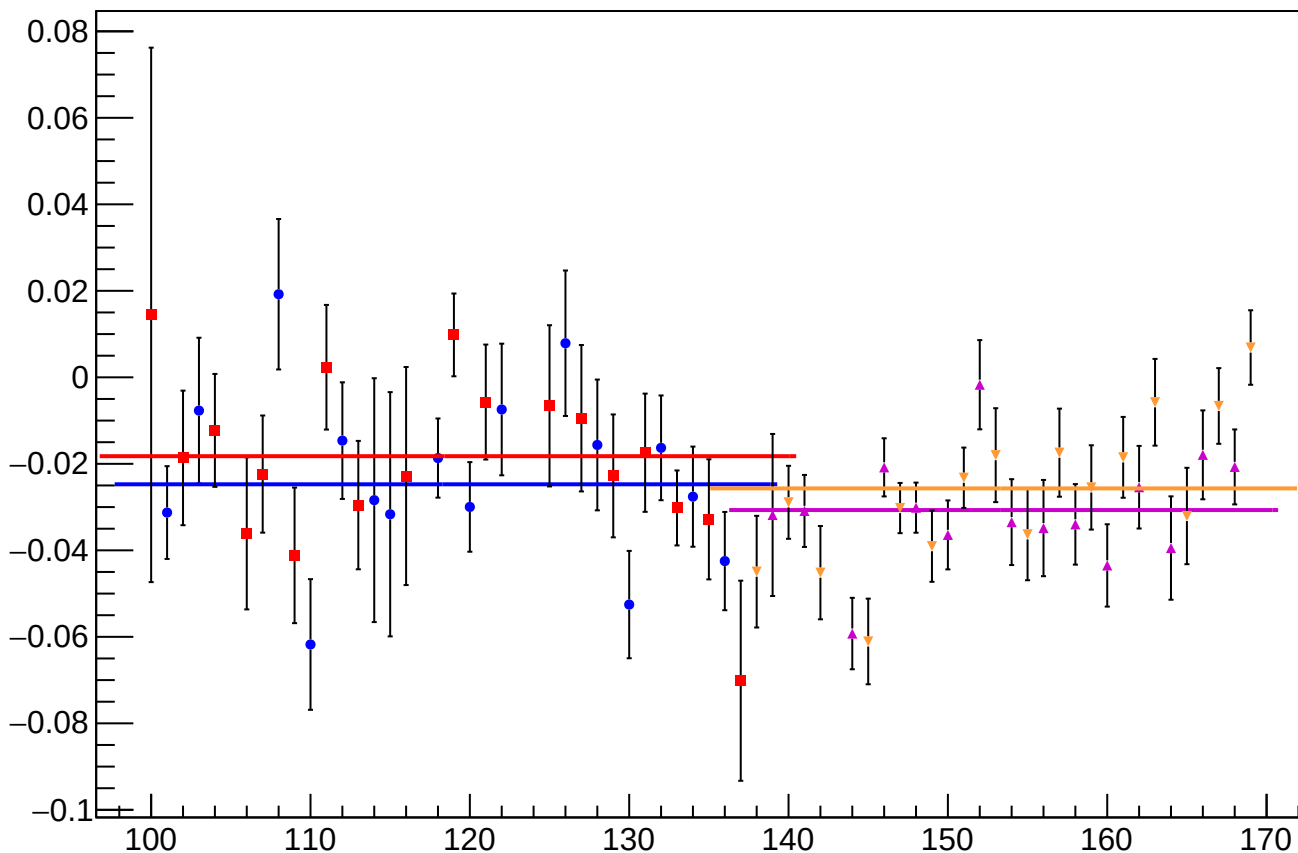
Right: -0.036 ± 0.002 χ^2/NDF : 1272.8/33

In: -0.009 ± 0.002 χ^2/NDF : 950.7/30

Out: -0.007 ± 0.002 χ^2/NDF : 1716.6/33

All: -0.008 ± 0.002 χ^2/NDF : 2667.9/64

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected



Right In: -0.025 ± 0.003 χ^2/NDF : 28.5/15

Left Out: -0.026 ± 0.002 χ^2/NDF : 47.9/15

Right Out: -0.018 ± 0.003 χ^2/NDF : 24.7/17

Left In: -0.031 ± 0.002 χ^2/NDF : 28.4/14

Left: -0.028 ± 0.002 χ^2/NDF : 78.7/30

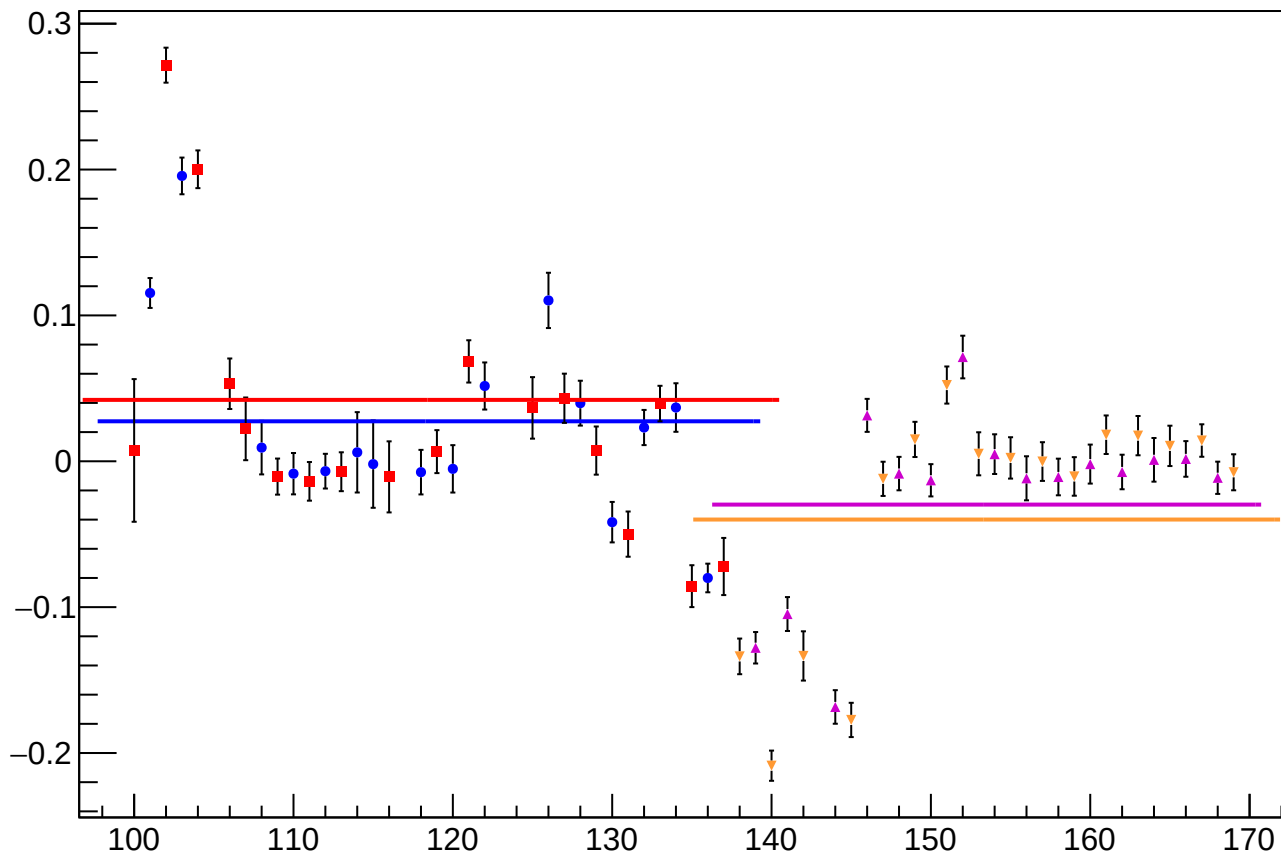
Right: -0.022 ± 0.002 χ^2/NDF : 55.1/33

In: -0.029 ± 0.002 χ^2/NDF : 59.1/30

Out: -0.023 ± 0.002 χ^2/NDF : 75.9/33

All: -0.026 ± 0.001 χ^2/NDF : 139.1/64

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected



Right In: 0.027 ± 0.004 χ^2/NDF : 446.1/15

Left Out: -0.040 ± 0.003 χ^2/NDF : 684.7/15

Right Out: 0.042 ± 0.004 χ^2/NDF : 733.2/17

Left In: -0.030 ± 0.003 χ^2/NDF : 384.3/14

Left: -0.035 ± 0.002 χ^2/NDF : 1074.2/30

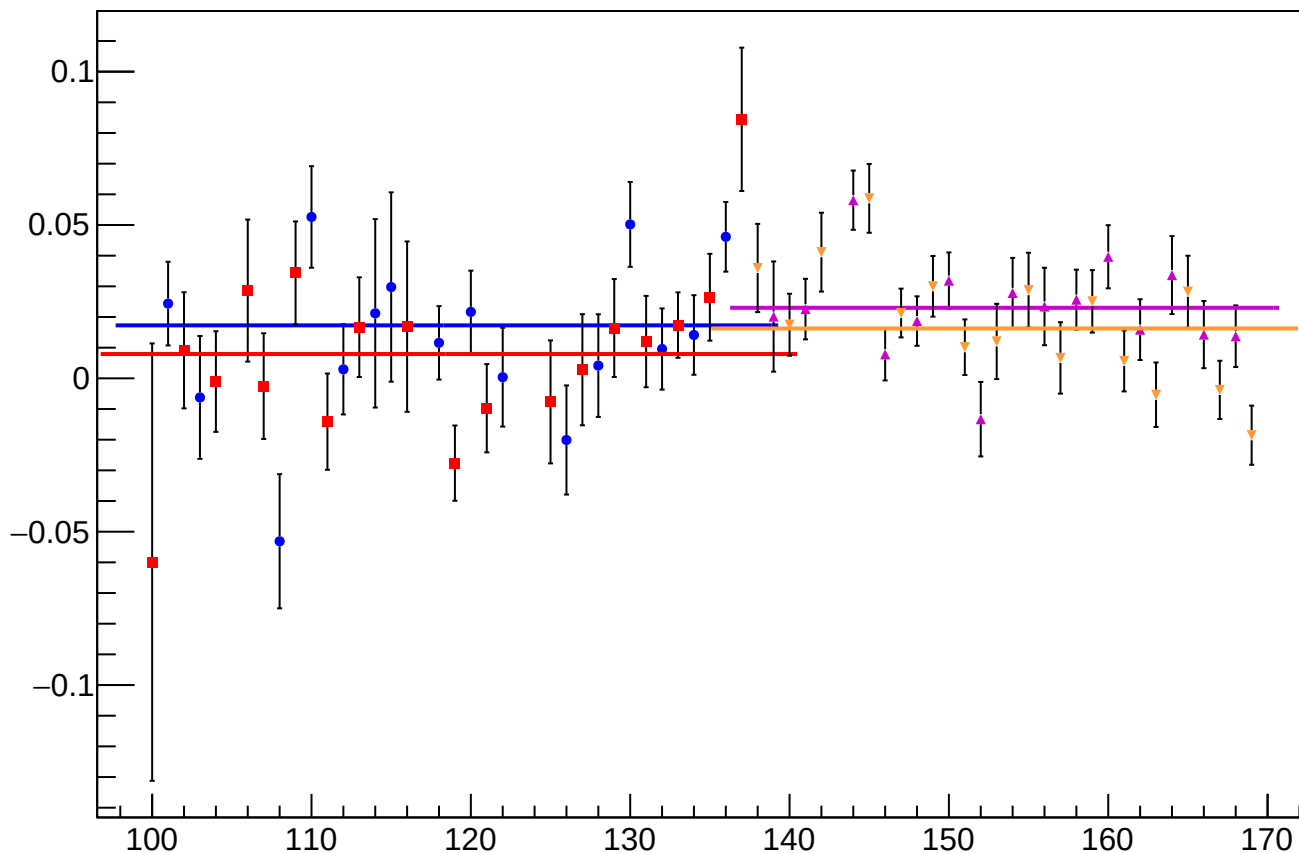
Right: 0.035 ± 0.003 χ^2/NDF : 1187.6/33

In: -0.005 ± 0.002 χ^2/NDF : 973.6/30

Out: -0.004 ± 0.002 χ^2/NDF : 1706.5/33

All: -0.005 ± 0.002 χ^2/NDF : 2680.1/64

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected



Right In: 0.017 ± 0.004 $\chi^2/\text{NDF}: 36.7/15$

Left Out: 0.016 ± 0.003 $\chi^2/\text{NDF}: 49.2/15$

Right Out: 0.008 ± 0.004 $\chi^2/\text{NDF}: 31.4/17$

Left In: 0.023 ± 0.003 $\chi^2/\text{NDF}: 32.1/14$

Left: 0.020 ± 0.002 $\chi^2/\text{NDF}: 84.6/30$

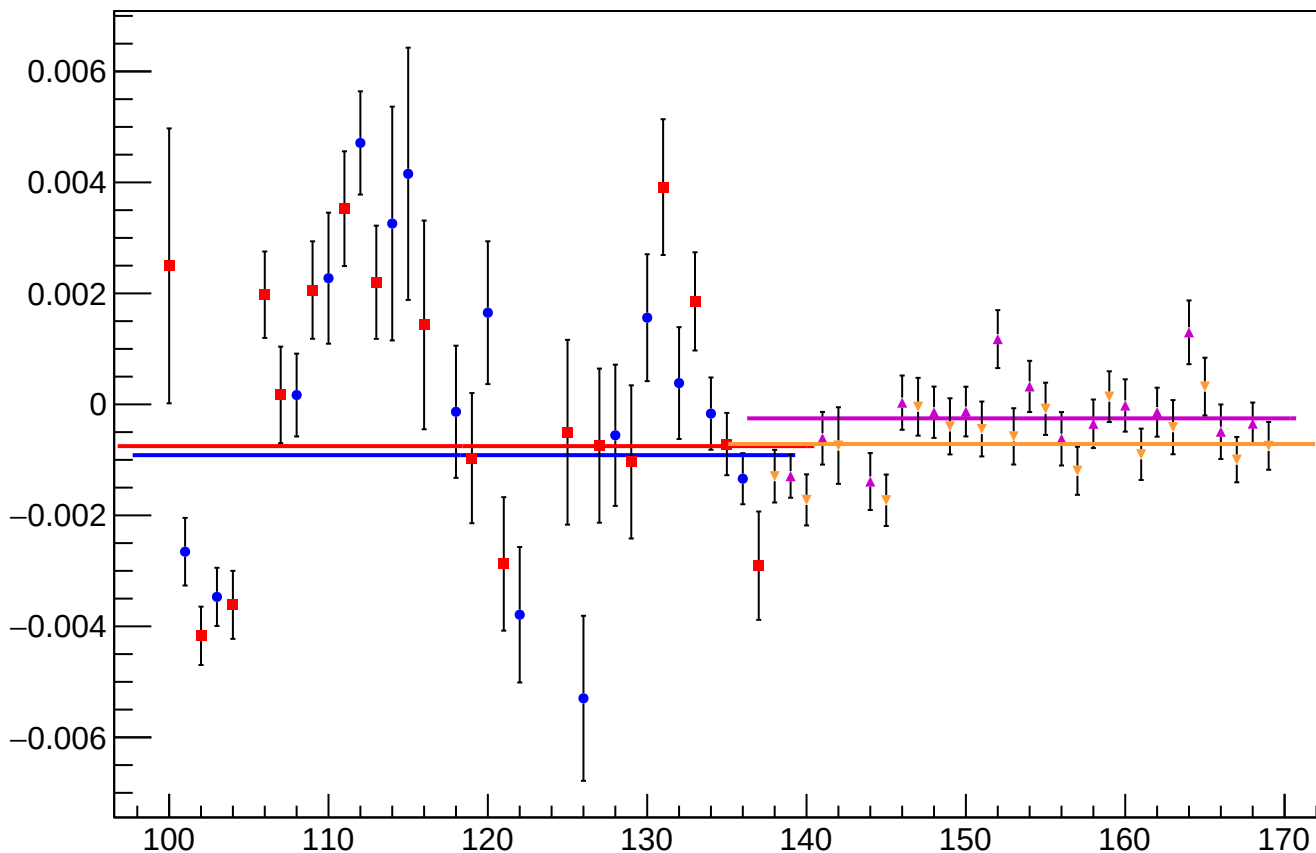
Right: 0.013 ± 0.003 $\chi^2/\text{NDF}: 71.0/33$

In: 0.021 ± 0.002 $\chi^2/\text{NDF}: 70.3/30$

Out: 0.014 ± 0.002 $\chi^2/\text{NDF}: 83.8/33$

All: 0.017 ± 0.002 $\chi^2/\text{NDF}: 159.9/64$

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected



Right In: -0.001 $\pm$ 0.000 χ^2 /NDF: 114.1/15

Left Out: -0.001 $\pm$ 0.000 χ^2 /NDF:25.0/15

Right Out: -0.001 $\pm$ 0.000 χ^2 /NDF: 147.6/17

Left In: -0.000 $\pm$ 0.000 χ^2 /NDF:30.7/14

Left: -0.000 $\pm$ 0.000 χ^2 /NDF: 63.2/30

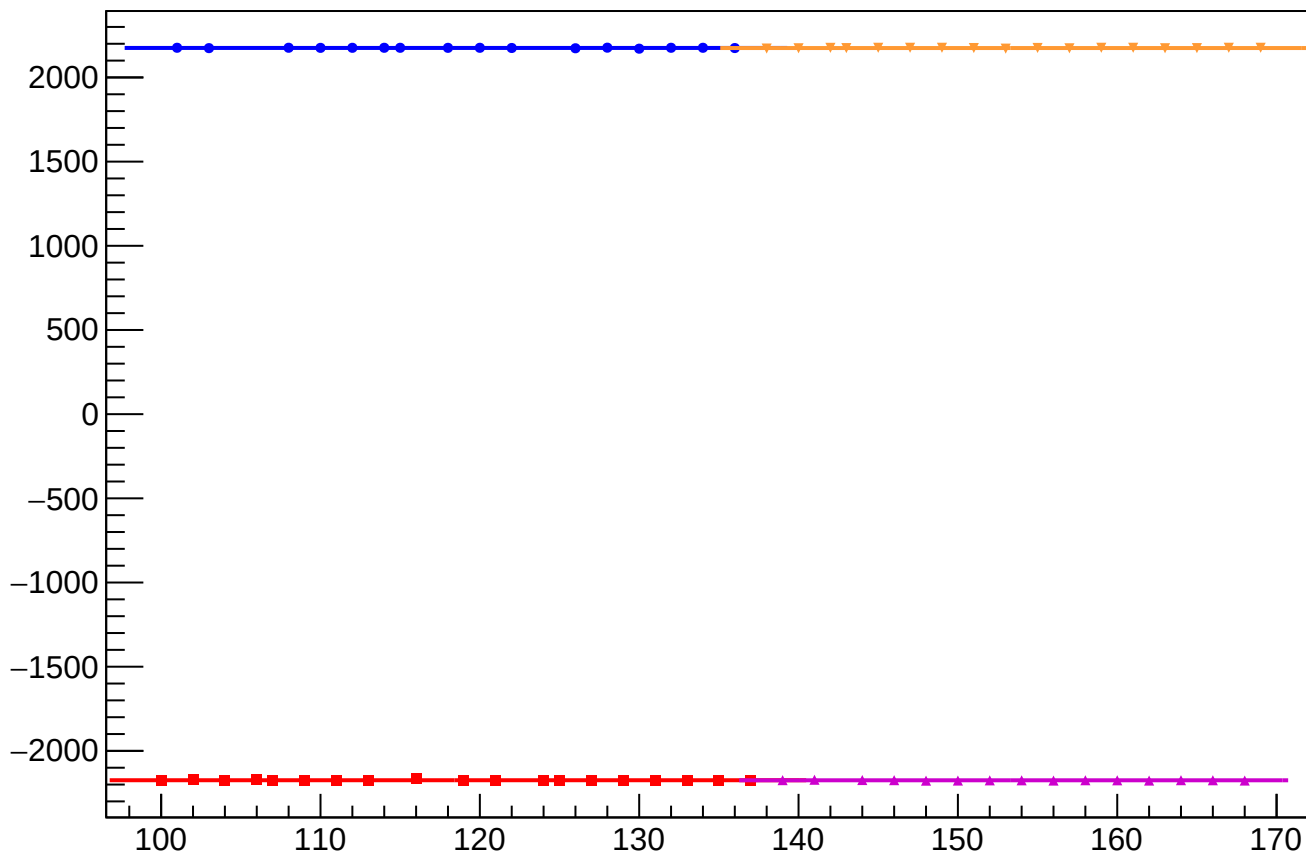
Right: -0.001 $\pm$ 0.000 χ^2 /NDF: 261.9/33

In: -0.000 $\pm$ 0.000 χ^2 /NDF:152.2/30

Out: -0.001 $\pm$ 0.000 χ^2 /NDF:172.6/33

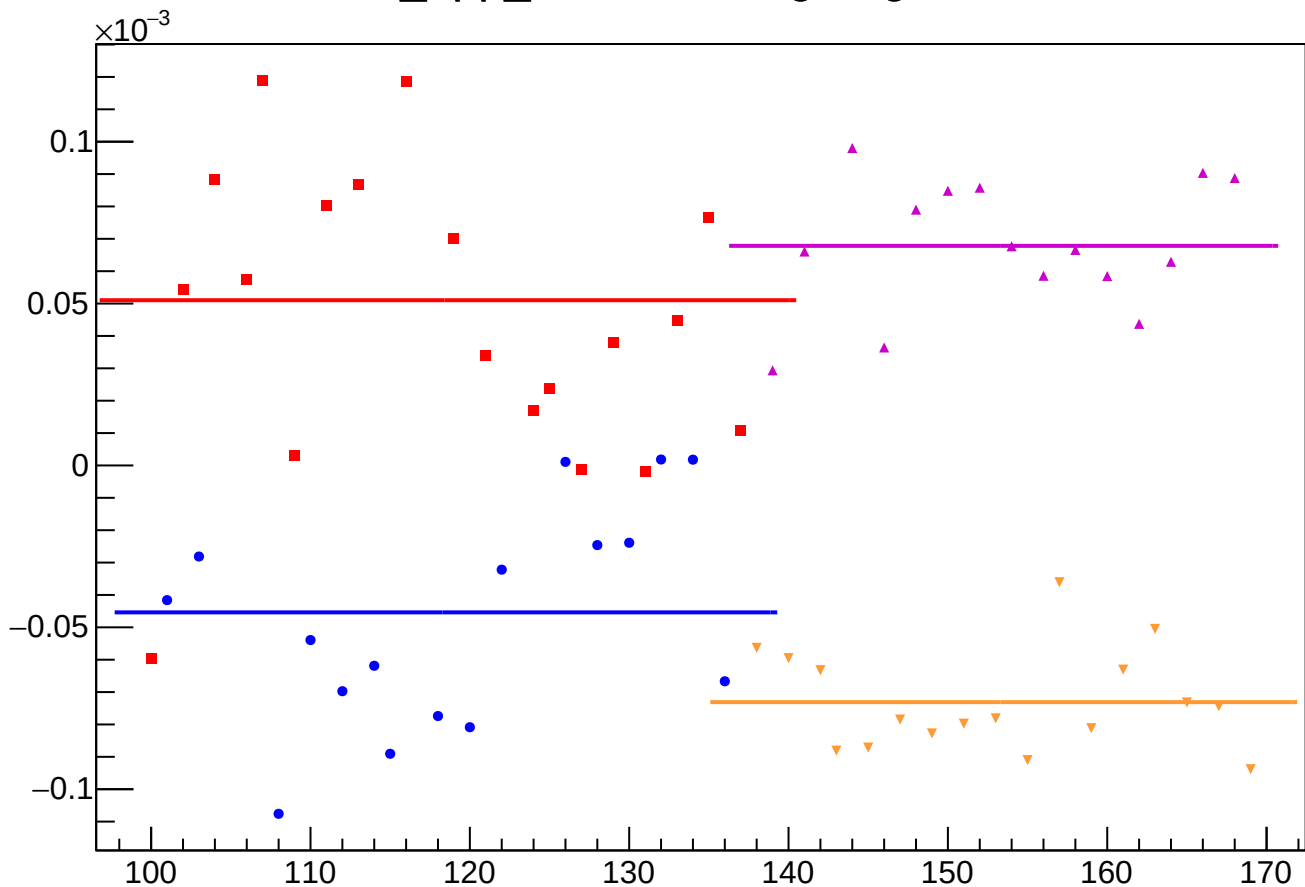
All: -0.001 $\pm$ 0.000 χ^2 /NDF: 329.3/64

HALLA_p_mean vs Slug, Sign Corrected



Right In: 2175.201+/-0.000 χ^2/NDF : 1765724072923660180937051331362816.0/15
 Left Out: 2174.617+/-0.000 χ^2/NDF : 3917121446023465487403508274561024.0/16
 Right Out: -2174.324+/-0.000 χ^2/NDF : 5542239415681046928723527201718272.0/18
 Left In: -2174.703+/-0.000 χ^2/NDF : 2641089026578530910734696335802368.0/14
 All: 47.303+/-0.000 χ^2/NDF : 1983000581196

HALLA_dpp_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000

χ^2/NDF : 713132081378122377723904.0/15

Left Out: -0.000+/-0.000

χ^2/NDF : 335028066806277139857408.0/16

Right Out: 0.000+/-0.000

χ^2/NDF : 1011955910720647101153280.0/18

Left In: 0.000+/-0.000

χ^2/NDF : 503267061778430258315264.0/14

Left: -0.000+/-0.000

χ^2/NDF : 14177075306938410

Right: 0.000+/-0.000

χ^2/NDF : 52193568733401849

In: 0.000+/-0.000

χ^2/NDF : 724674582583607131

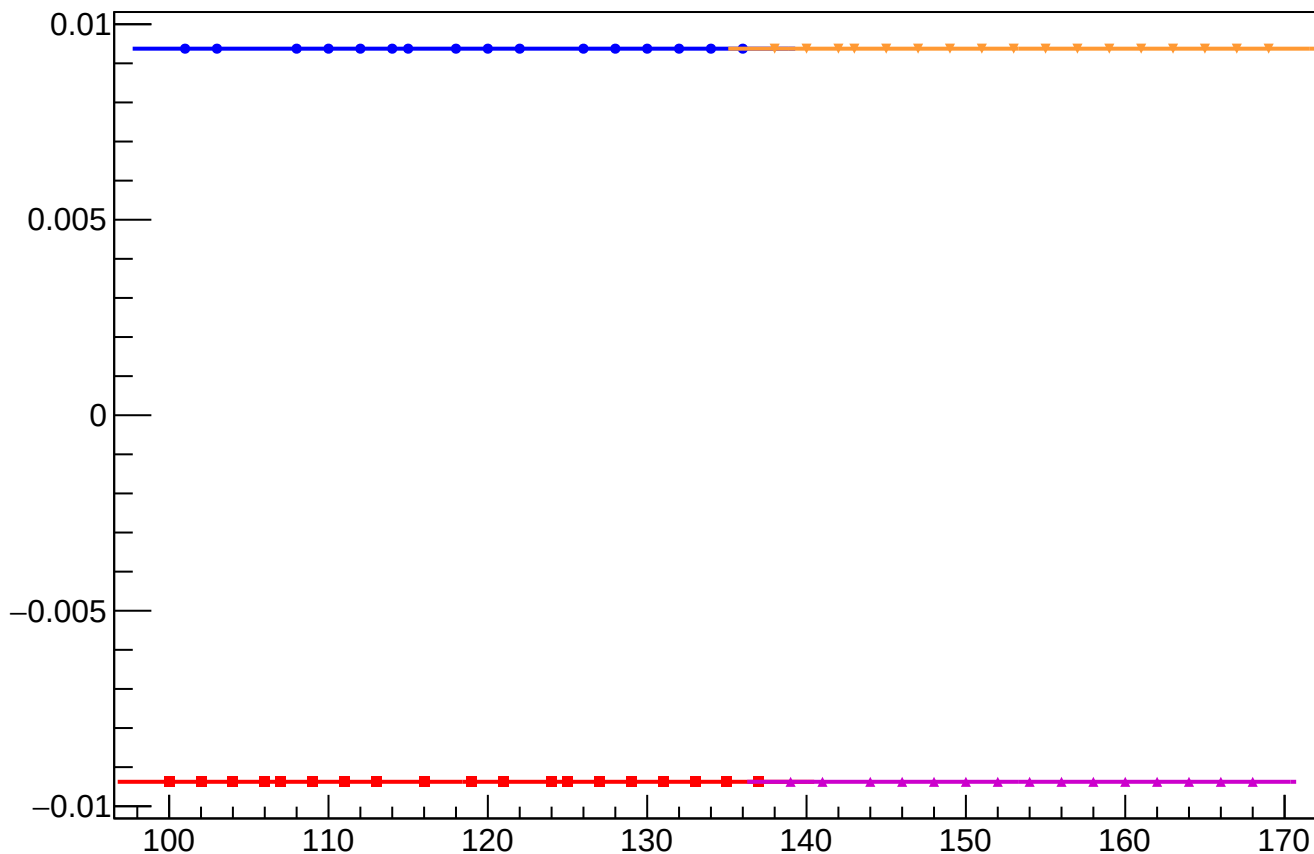
Out: -0.000+/-0.000

χ^2/NDF : 89609105824461665

All: -0.000+/-0.000

χ^2/NDF : 1947680452751

MQ171LM_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 0.1/15

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 0.0/16

Right Out: -0.009 $\pm$ 0.000 χ^2 /NDF: 0.0/18

Left In: -0.009 $\pm$ 0.000 χ^2 /NDF: 0.1/14

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 23609662416387884

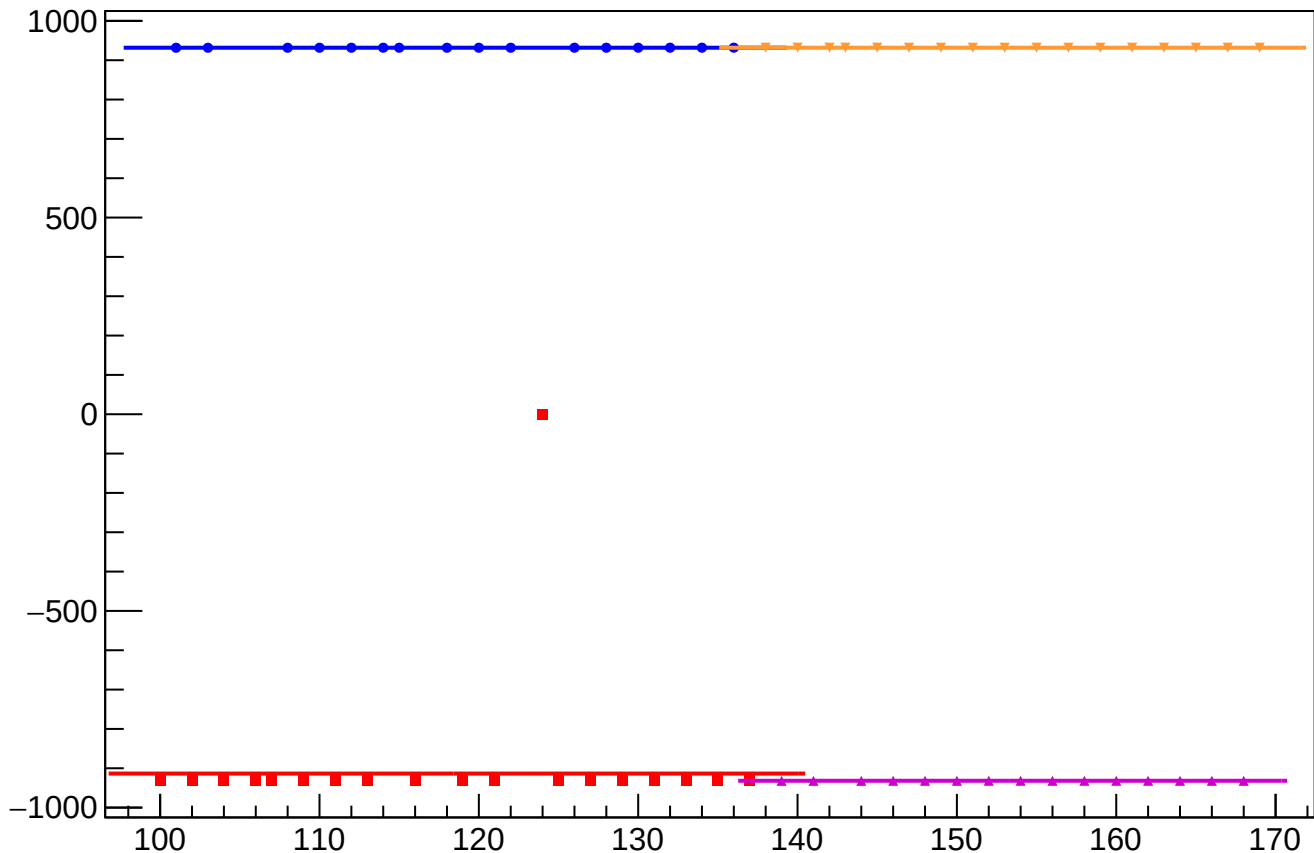
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 1321592160488695

In: -0.003 $\pm$ 0.000 χ^2 /NDF: 165416044488915833

Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 173706950057736379

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 36852767431465

HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 931.769+/-0.000 χ^2/NDF : 2757217223595001187167685836800.0/15

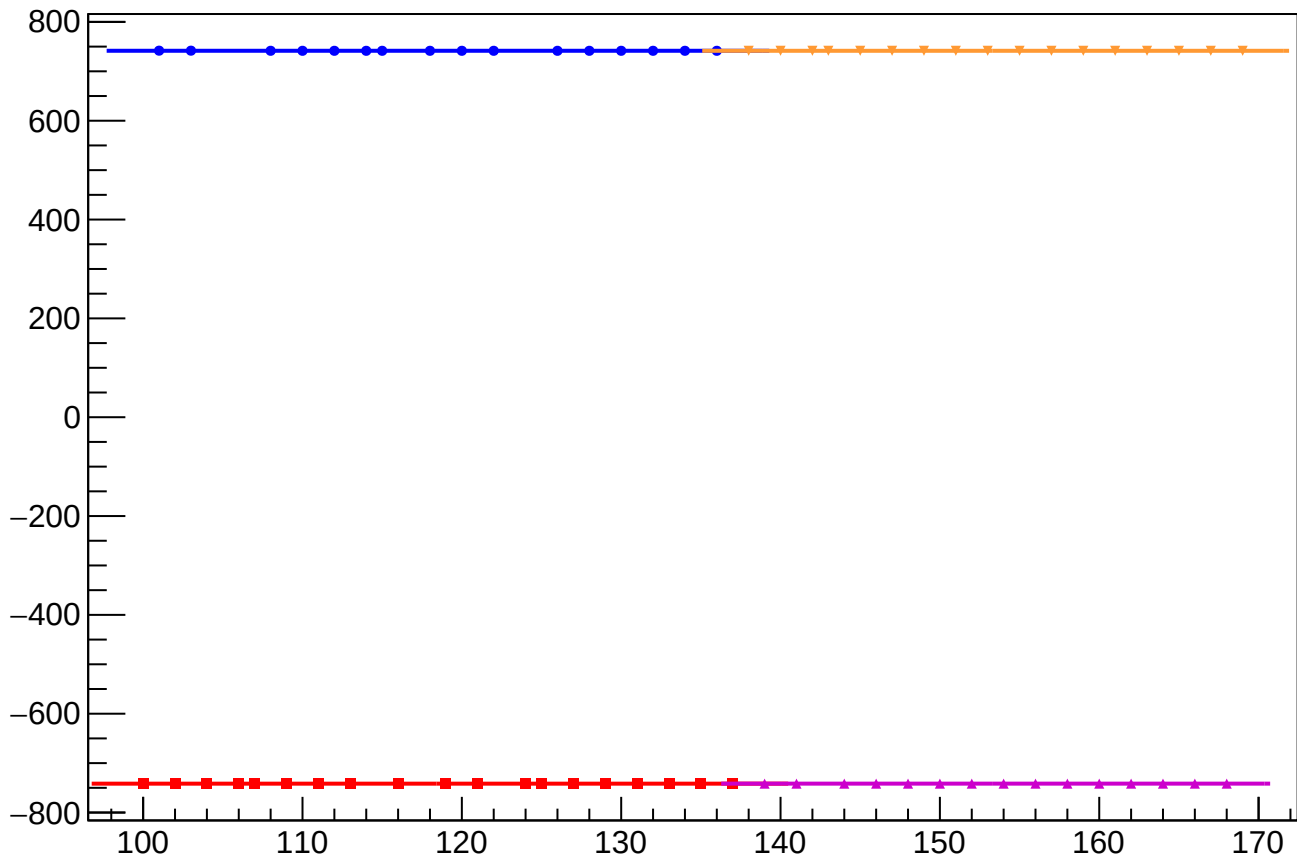
Left Out: 931.785+/-0.000 χ^2/NDF : 4153160605005820307461795479552.0/16

Right Out: -913.447+/-0.000 χ^2/NDF : 12765879635094435683491886518824337408.0/18

Left In: -931.774+/-0.000 χ^2/NDF : 3661755941166622481200313270272.0/14

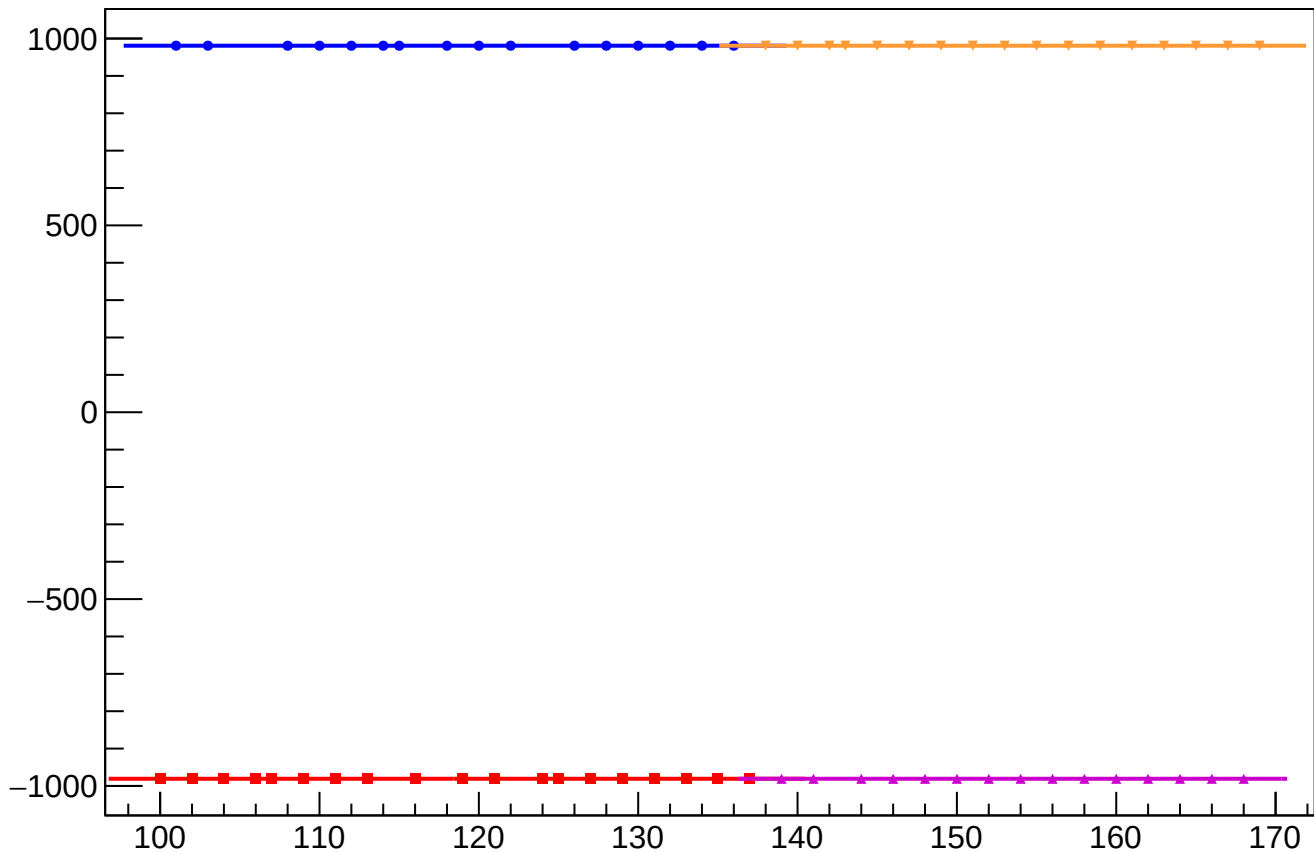
All: 23.549+/-0.000 χ^2/NDF : 3626769649494

HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 741.569+/-0.000	χ^2/NDF : 6432951176127947061938899386368.0/15	Left: 31.137+/-0.000	χ^2/NDF : 14770208327802460.0/15
Left Out: 741.514+/-0.000	χ^2/NDF : 181030097229637974480851566592.0/16	Right: -10.851+/-0.000	χ^2/NDF : 826918104240998.0/16
Right Out: -741.577+/-0.000	χ^2/NDF : 7692263947892614711537477615616.0/18	In: -200.153+/-0.000	χ^2/NDF : 1034919048229374.0/18
Left In: -741.515+/-0.000	χ^2/NDF : 158352119542118901550585741312.0/14	Out: 218.836+/-0.000	χ^2/NDF : 1086801767181285.0/14
	All: 16.083+/-0.000		χ^2/NDF : 2305639904314.0/14

HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 980.804+/-0.000

χ^2/NDF : 933313276884807786774245933056.0/15

Left Out: 980.770+/-0.000

χ^2/NDF : 679327547079966281264057548800.0/16

Right Out: -980.725+/-0.000

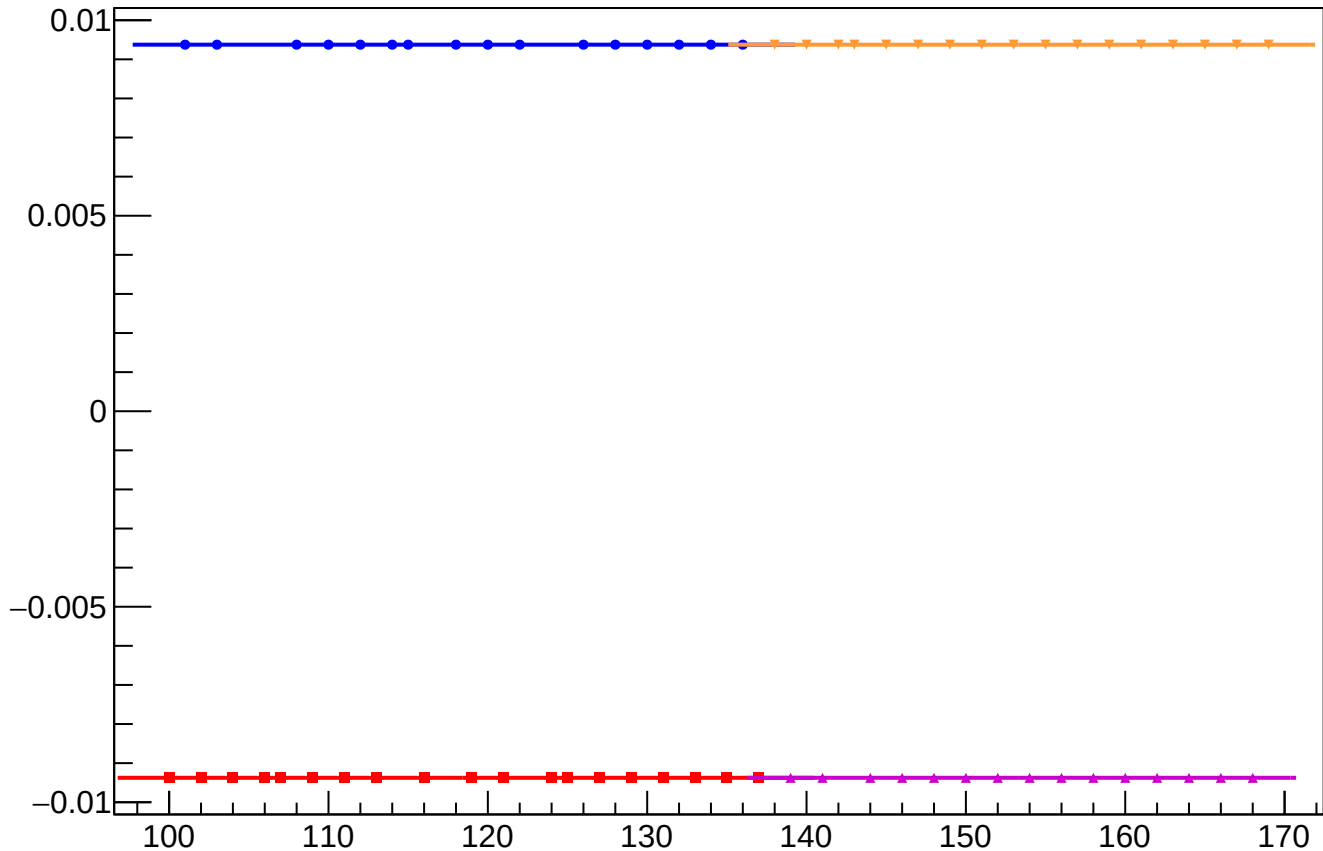
χ^2/NDF : 56040205617358336221662876270592.0/18

Left In: -980.779+/-0.000

χ^2/NDF : 1318116747386387696035995582464.0/14

Left: 41.180+/-0.000 χ^2/NDF : 25839566967537616.0/15
 Right: -14.307+/-0.000 χ^2/NDF : 144638600880856.0/15
 In: 264.753+/-0.000 χ^2/NDF : 1810456983000957.0/15
 Out: 289.490+/-0.000 χ^2/NDF : 1901029359394169.0/15
 All: 21.287+/-0.000 χ^2/NDF : 4033313063124.0/15

MQ172RM_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2/NDF : 0.1/15

Left Out: 0.009 $\pm$ 0.000 χ^2/NDF : 0.0/16

Right Out: -0.009 $\pm$ 0.000 χ^2/NDF : 0.0/18

Left In: -0.009 $\pm$ 0.000 χ^2/NDF : 0.1/14

Left: 0.000 $\pm$ 0.000 χ^2/NDF : 23609662416387884

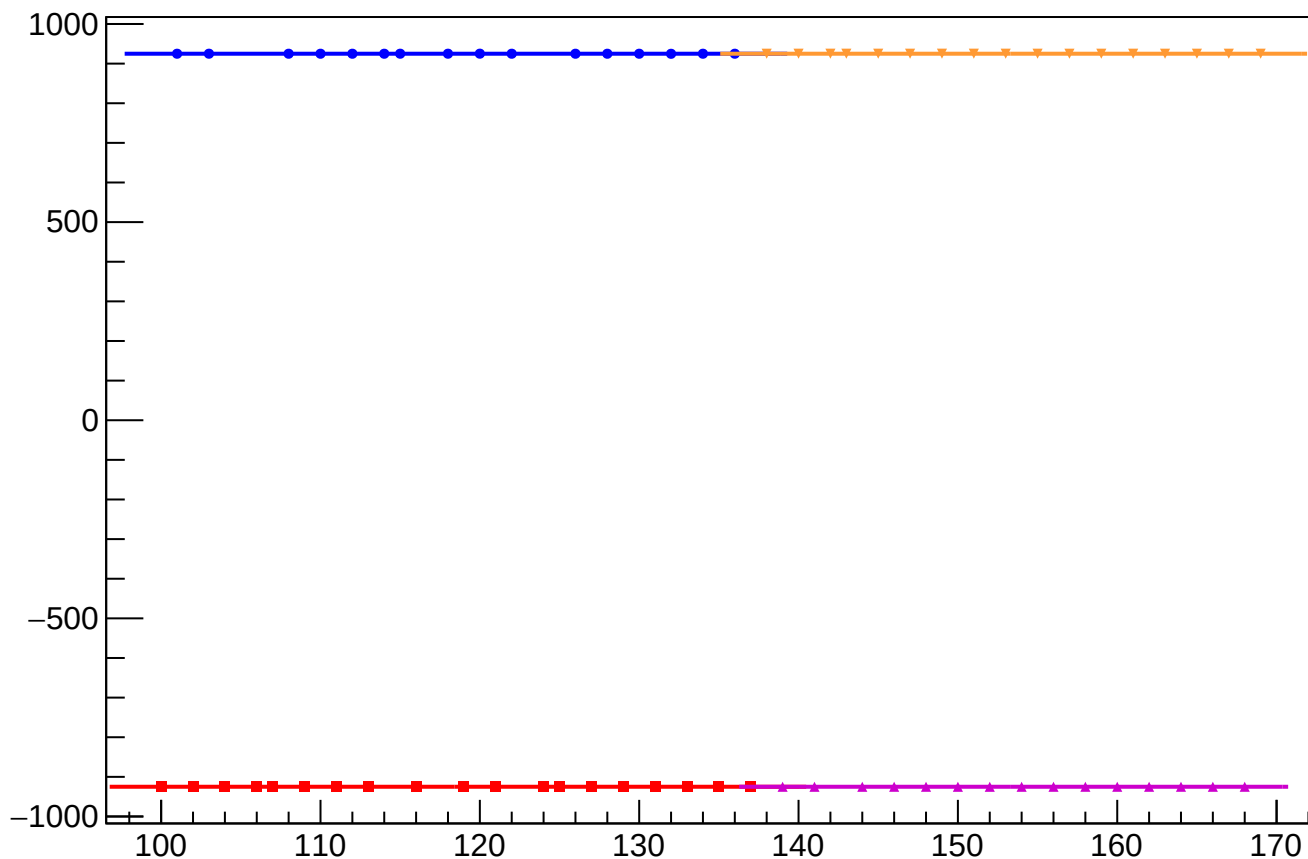
Right: -0.000 $\pm$ 0.000 χ^2/NDF : 1321592160488695

In: -0.003 $\pm$ 0.000 χ^2/NDF : 165416044488915833

Out: 0.003 $\pm$ 0.000 χ^2/NDF : 173706950057736379

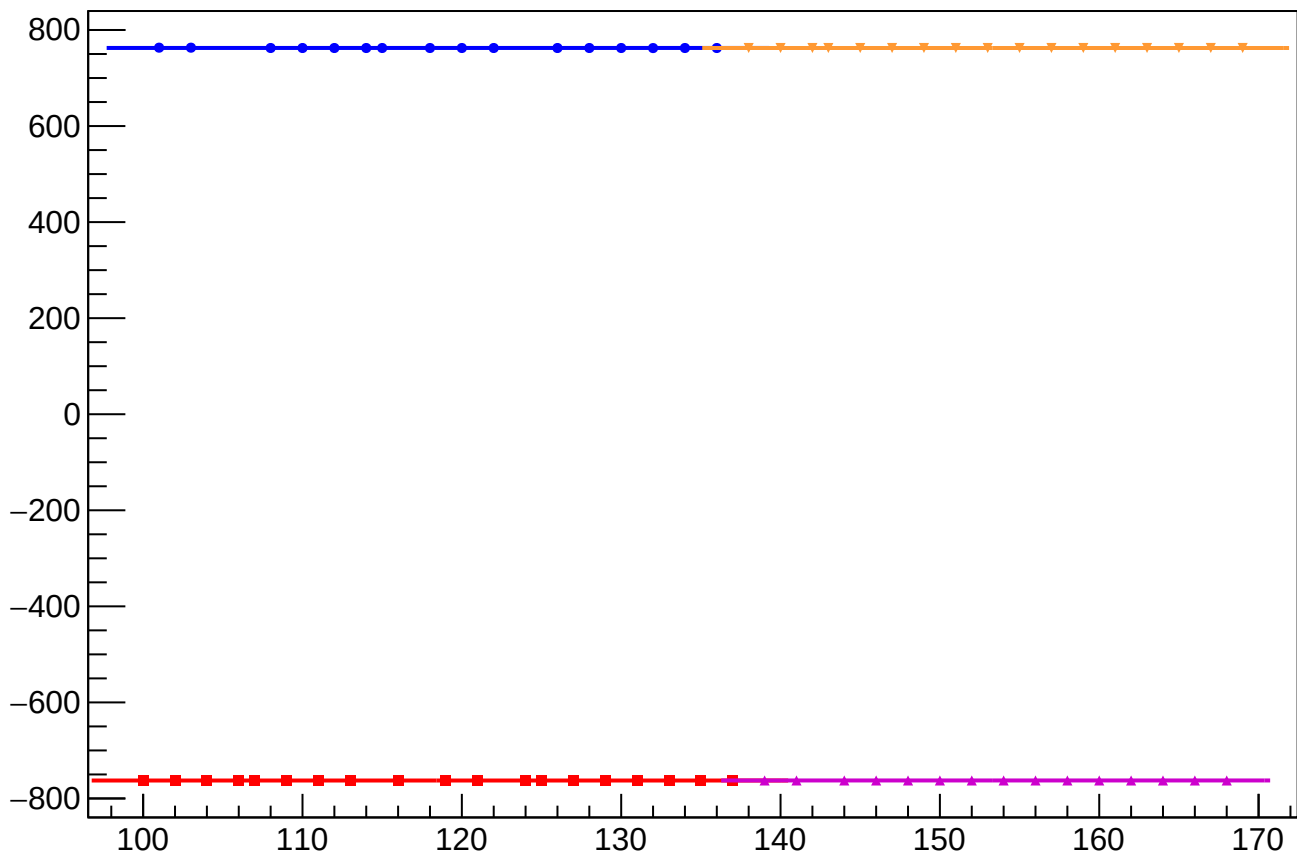
All: 0.000 $\pm$ 0.000 χ^2/NDF : 36852767431465

HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected



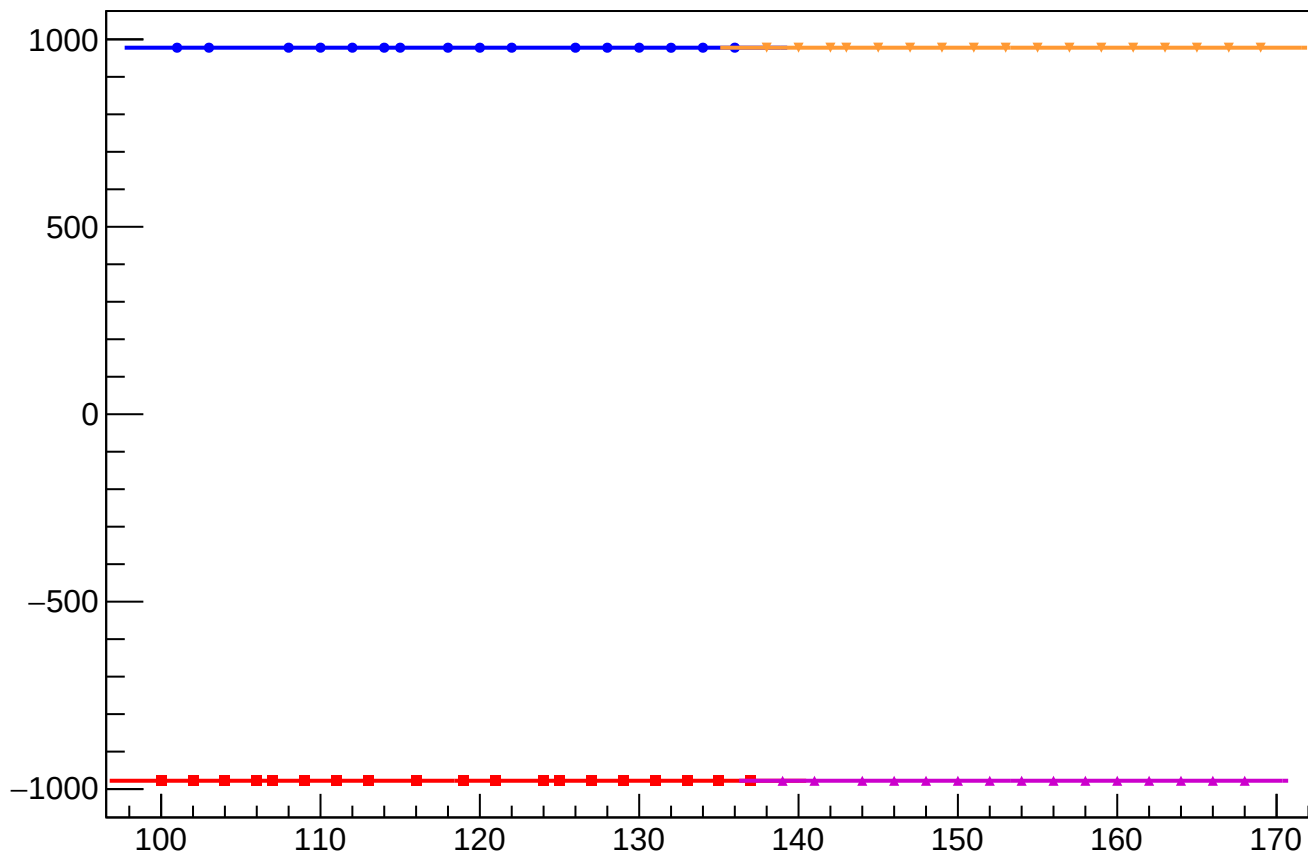
Right In: 924.966+/-0.000 χ^2/NDF : 2544370508087658800533037121536.0/15
 Left Out: 924.985+/-0.000 χ^2/NDF : 866256670047353090007887773696.0/16
 Right Out: -924.974+/-0.000 χ^2/NDF : 1241981521116890900236351832064.0/18
 Left In: -924.987+/-0.000 χ^2/NDF : 709345978807099040512727842816.0/14
 All: 20.063+/-0.000 χ^2/NDF : 3587506122572

HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected



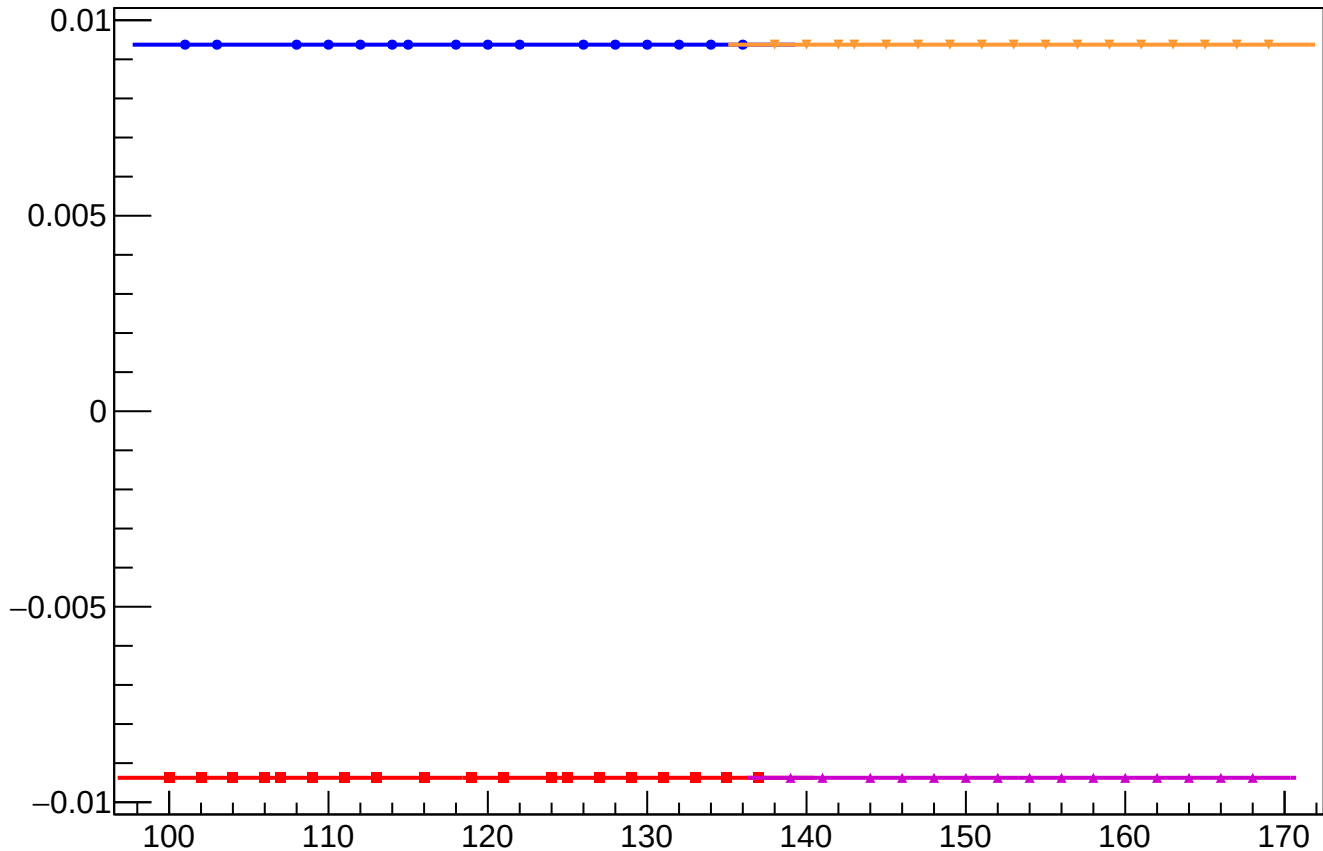
Right In: 762.611+/-0.000	χ^2/NDF : 52161453489138778834460408283136.0/15	Left: 32.019+/-0.000	χ^2/NDF : 15618468563911516
Left Out: 762.510+/-0.000	χ^2/NDF : 470264677583689221957935431680.0/16	Right: -11.159+/-0.000	χ^2/NDF : 874510274639263
Right Out: -762.618+/-0.000	χ^2/NDF : 53134338532630395841297843748864.0/18	In: -205.803+/-0.000	χ^2/NDF : 1094418761701353
Left In: -762.510+/-0.000	χ^2/NDF : 366388644539328620655852650496.0/14	Out: 225.017+/-0.000	χ^2/NDF : 1149284164119296
	All: 16.539+/-0.000		χ^2/NDF : 2438155835295

HacR_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected



Right In: 977.749+/-0.000 χ^2/NDF : 1959578331072316074448224518144.0/15
 Left Out: 977.741+/-0.000 χ^2/NDF : 1090225712309307804592803676160.0/16
 Right Out: -977.747+/-0.000 χ^2/NDF : 1782226877816914726327966236672.0/18
 Left In: -977.738+/-0.000 χ^2/NDF : 1016084866153935420049797939200.0/14
 All: 21.211+/-0.000 χ^2/NDF : 4008451333021

hesDipole_current_mean vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 0.1/15

Left Out: 0.009 $\pm$ 0.000 χ^2 /NDF:0.0/16

Right Out: -0.009 $\pm$ 0.000 χ^2 /NDF: 0.0/18

Left In: -0.009 $\pm$ 0.000 χ^2 /NDF:0.1/14

Left: 0.000 $\pm$ 0.000 χ^2 /NDF: 23609662416387884

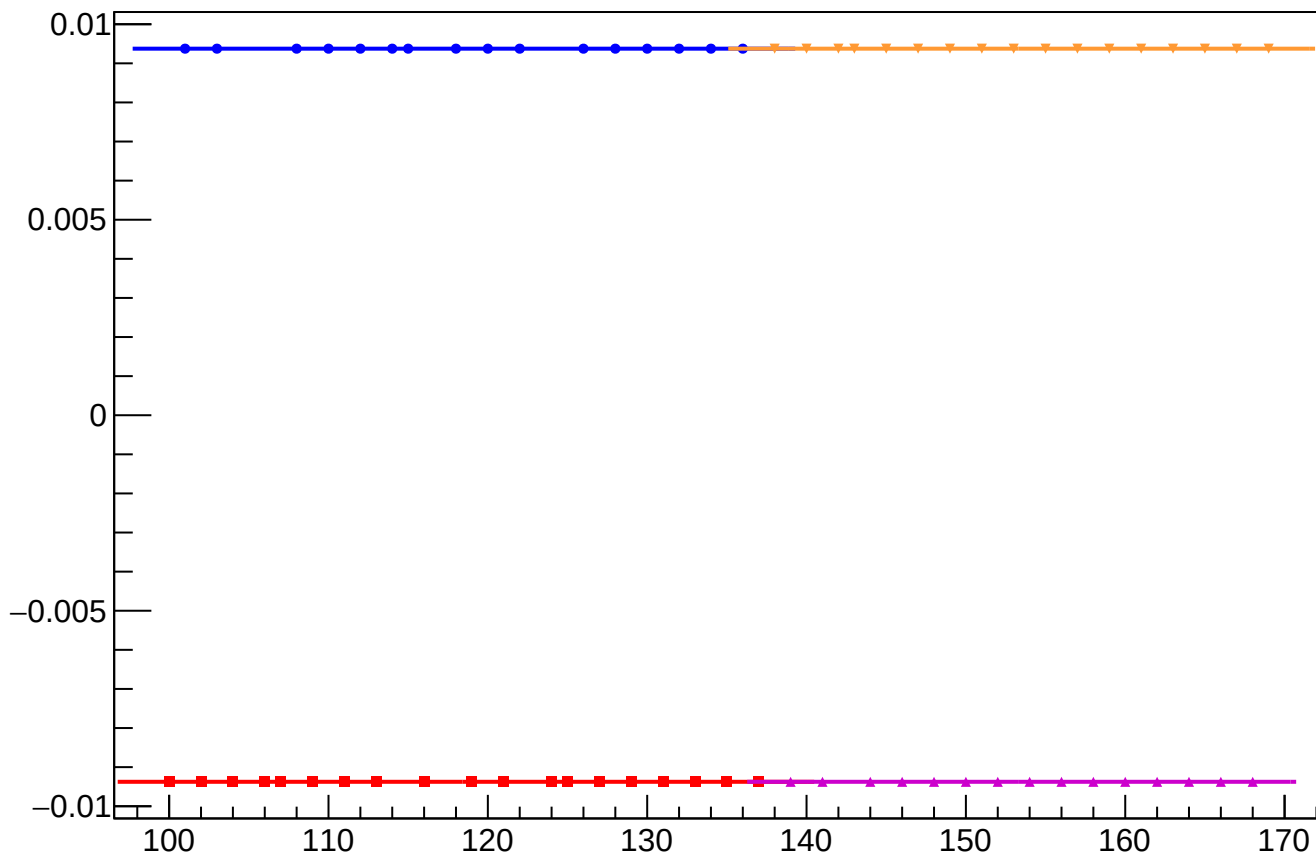
Right: -0.000 $\pm$ 0.000 χ^2 /NDF: 1321592160488695

In: -0.003 $\pm$ 0.000 χ^2 /NDF:165416044488915833

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:173706950057736379

All: 0.000 $\pm$ 0.000 χ^2 /NDF: 36852767431465

MSUPERBIGBITereadcalc_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.1/15

Left Out: 0.009+/-0.000 χ^2/NDF : 0.0/16

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/18

Left In: -0.009+/-0.000 χ^2/NDF : 0.1/14

Left: 0.000+/-0.000 χ^2/NDF : 23609662416387884

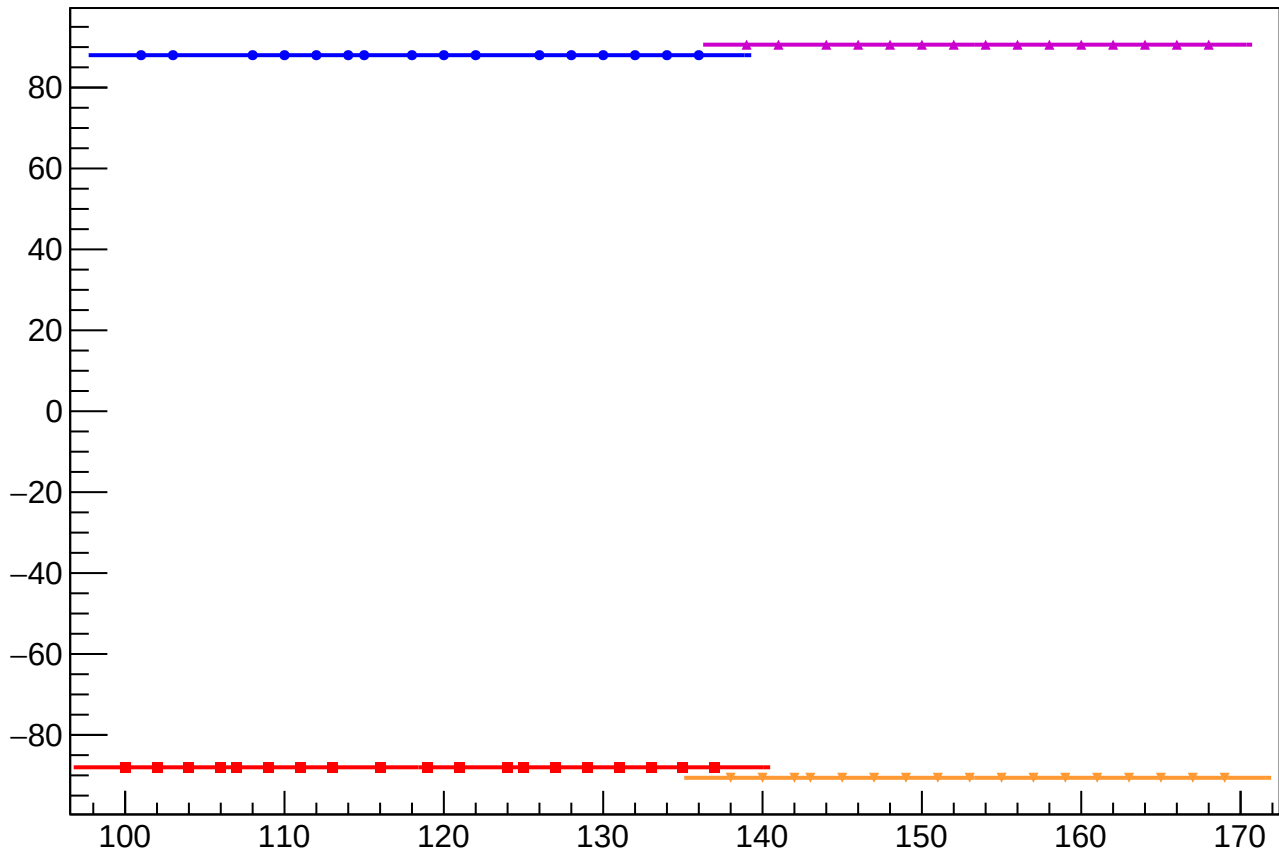
Right: -0.000+/-0.000 χ^2/NDF : 1321592160488695

In: -0.003+/-0.000 χ^2/NDF : 165416044488915833

Out: 0.003+/-0.000 χ^2/NDF : 173706950057736379

All: 0.000+/-0.000 χ^2/NDF : 36852767431465

VWienAngle_mean vs Slug, Sign Corrected



Right In: 88.001 $\pm$ 0.000 χ^2 /NDF: 1500072.7/15

Left Out: -90.599 $\pm$ 0.000 χ^2 /NDF: 4561004.4/16

Right Out: -88.003 $\pm$ 0.000 χ^2 /NDF: 73227058941379664360176091136.0/18

Left In: 90.599 $\pm$ 0.000 χ^2 /NDF: 4602201.9/14

Left: -3.804 $\pm$ 0.000 χ^2 /NDF: 22049405222149887

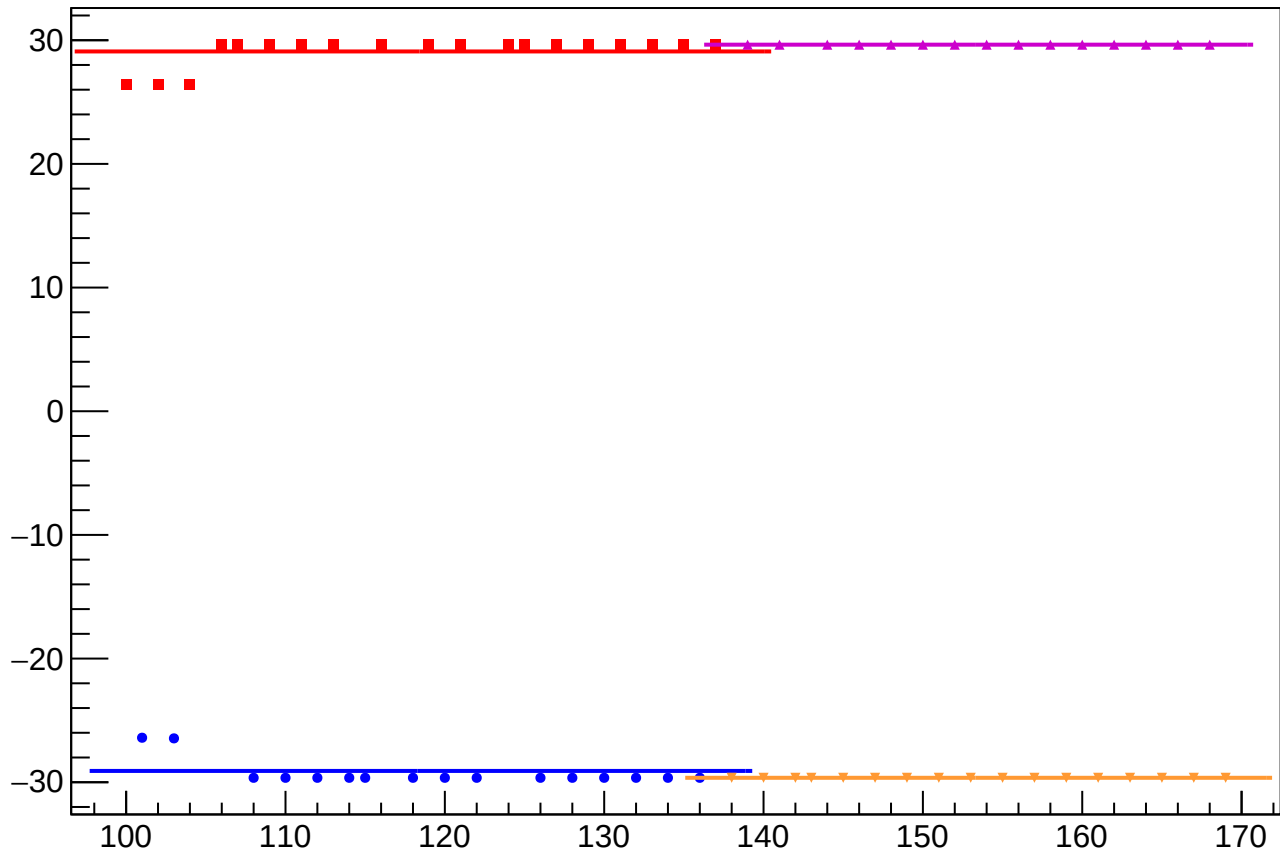
Right: -1.289 $\pm$ 0.000 χ^2 /NDF: 1164502782894649

In: 89.651 $\pm$ 0.000 χ^2 /NDF: 317725349841426008

Out: -89.684 $\pm$ 0.000 χ^2 /NDF: 3329636419289996

All: -2.902 $\pm$ 0.000 χ^2 /NDF: 3370053946983

HWienAngle_mean vs Slug, Sign Corrected



Right In: -29.085+/-0.000

Left Out: -29.641+/-0.000

Right Out: 29.093+/-0.000

Left In: 29.641+/-0.000

χ^2/NDF : 1094367885251609877355036411953152.0/15

χ^2/NDF : 196129.8/16

χ^2/NDF : 1125238156749692849797805899776000.0/18

χ^2/NDF : 110137.6/14

Left: -1.245+/-0.000 χ^2/NDF : 23600664315128178

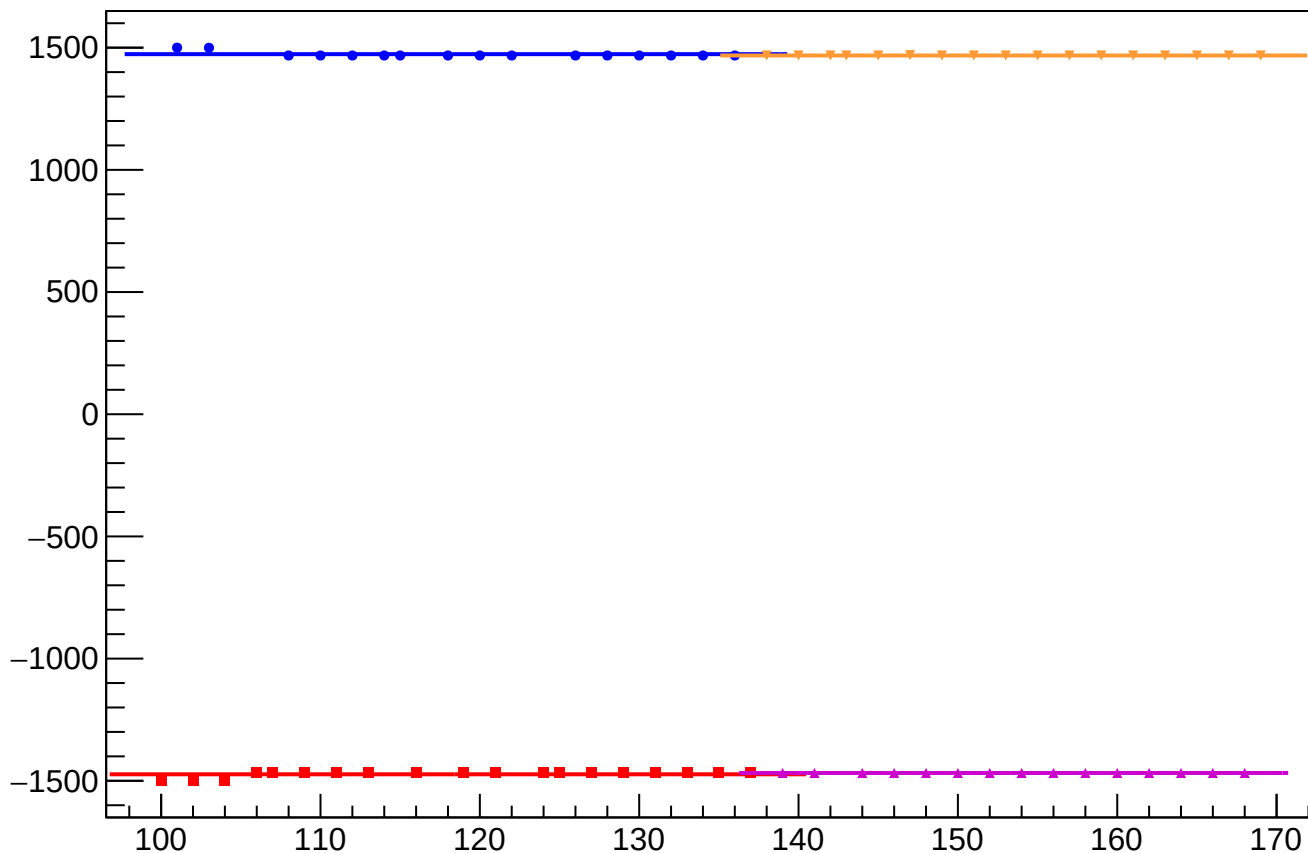
Right: 0.429+/-0.000 χ^2/NDF : 12746007522578358

In: 8.204+/-0.000 χ^2/NDF : 1623791417691759860

Out: -8.942+/-0.000 χ^2/NDF : 17055907048553525

All: -0.645+/-0.000 χ^2/NDF : 3637370554536

psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1473.467+/-0.000

χ^2/NDF : 106894194860706176878485793704771584.0/15

Left Out: 1468.073+/-0.000

χ^2/NDF : 137228936838397014364291061514240.0/16

Right Out: -1473.393+/-0.000

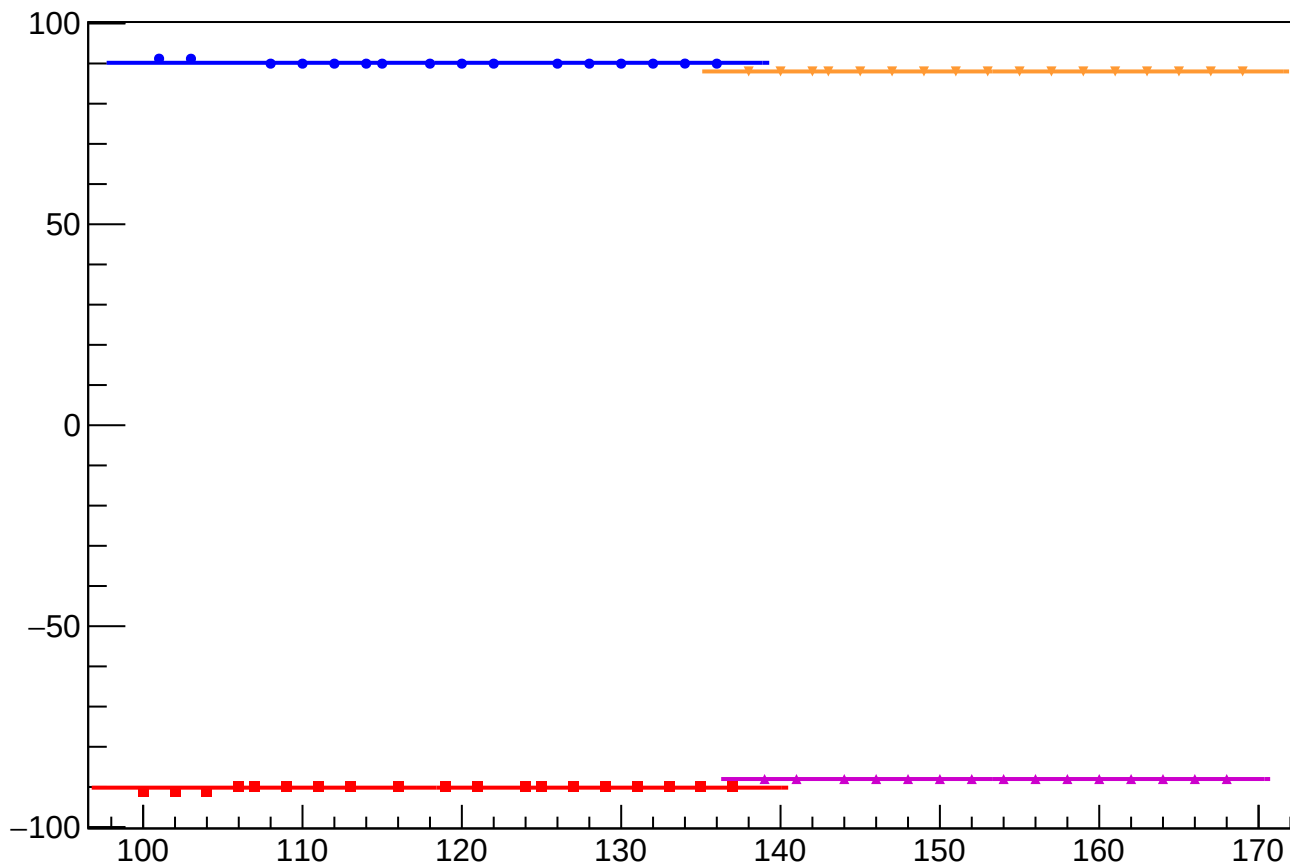
χ^2/NDF : 109909499733401078761067843300622336.0/18

Left In: -1467.991+/-0.000

χ^2/NDF : 125765709820828648806006390784.0/14

All: 31.857+/-0.000 χ^2/NDF : 9060572251968

Phi_FG_mean vs Slug, Sign Corrected



Right In: 90.173+/-0.000

χ^2/NDF : 160010492173064584437589858058240.0/15

Left Out: 88.021+/-0.000

χ^2/NDF : 3850550.0/16

Right Out: -90.169+/-0.000

χ^2/NDF : 164815404456112641329707295440896.0/18

Left In: -88.021+/-0.000

χ^2/NDF : 4723169.0/14

Left: 3.696+/-0.000

χ^2/NDF : 20812147322822737

Right: -1.317+/-0.000

χ^2/NDF : 1222640469973926

In: -22.976+/-0.000

χ^2/NDF : 14940435643551362

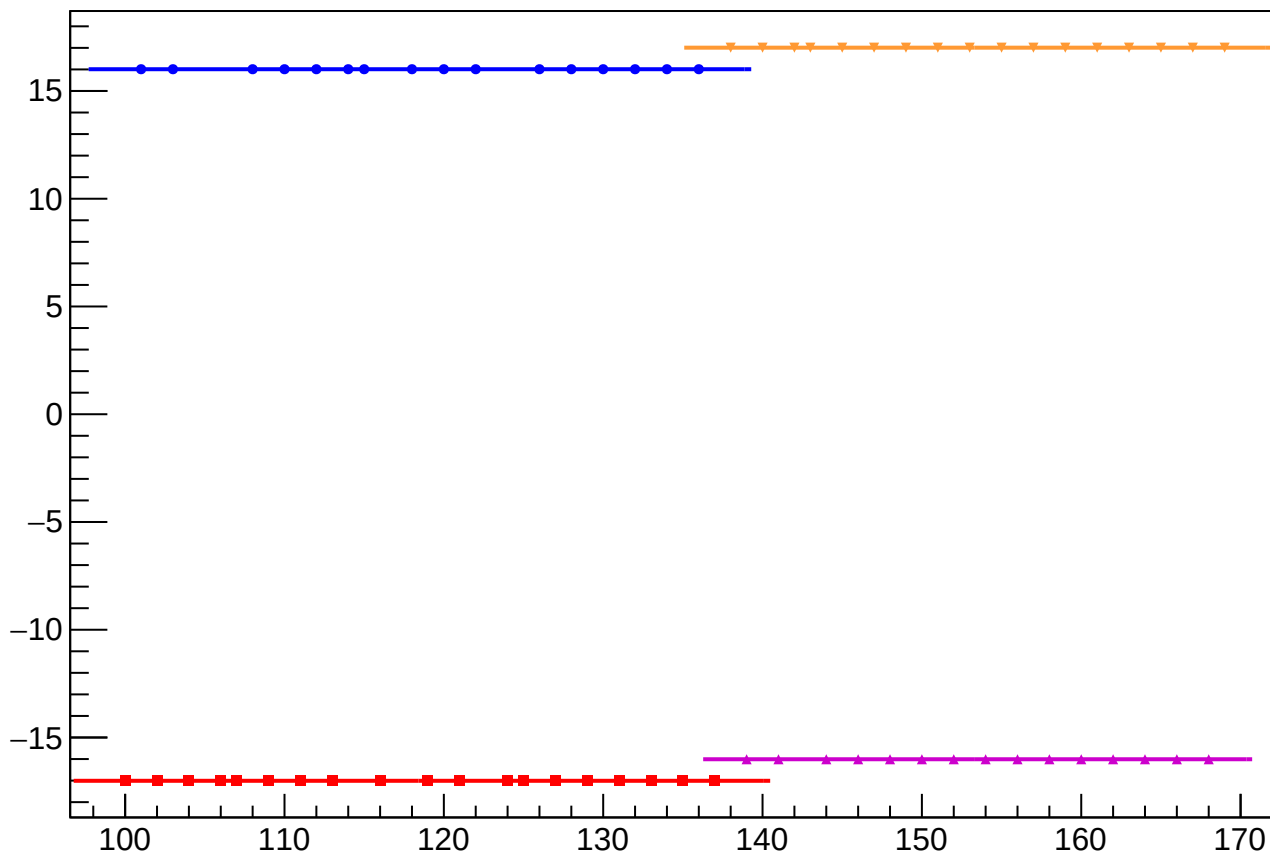
Out: 25.222+/-0.000

χ^2/NDF : 15688598332169945

All: 1.899+/-0.000

χ^2/NDF : 33062799416436

IGL1I00DI24_24M_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000 χ^2/NDF : 44239.3/15

Left Out: 17.009+/-0.000 χ^2/NDF : 20817230085088896522125312.0/16

Right Out: -17.009+/-0.000 χ^2/NDF : 13878987313036743260766208.0/18

Left In: -16.009+/-0.000 χ^2/NDF : 161268.4/14

Left: 1.111+/-0.000 χ^2/NDF : 676649186998898854

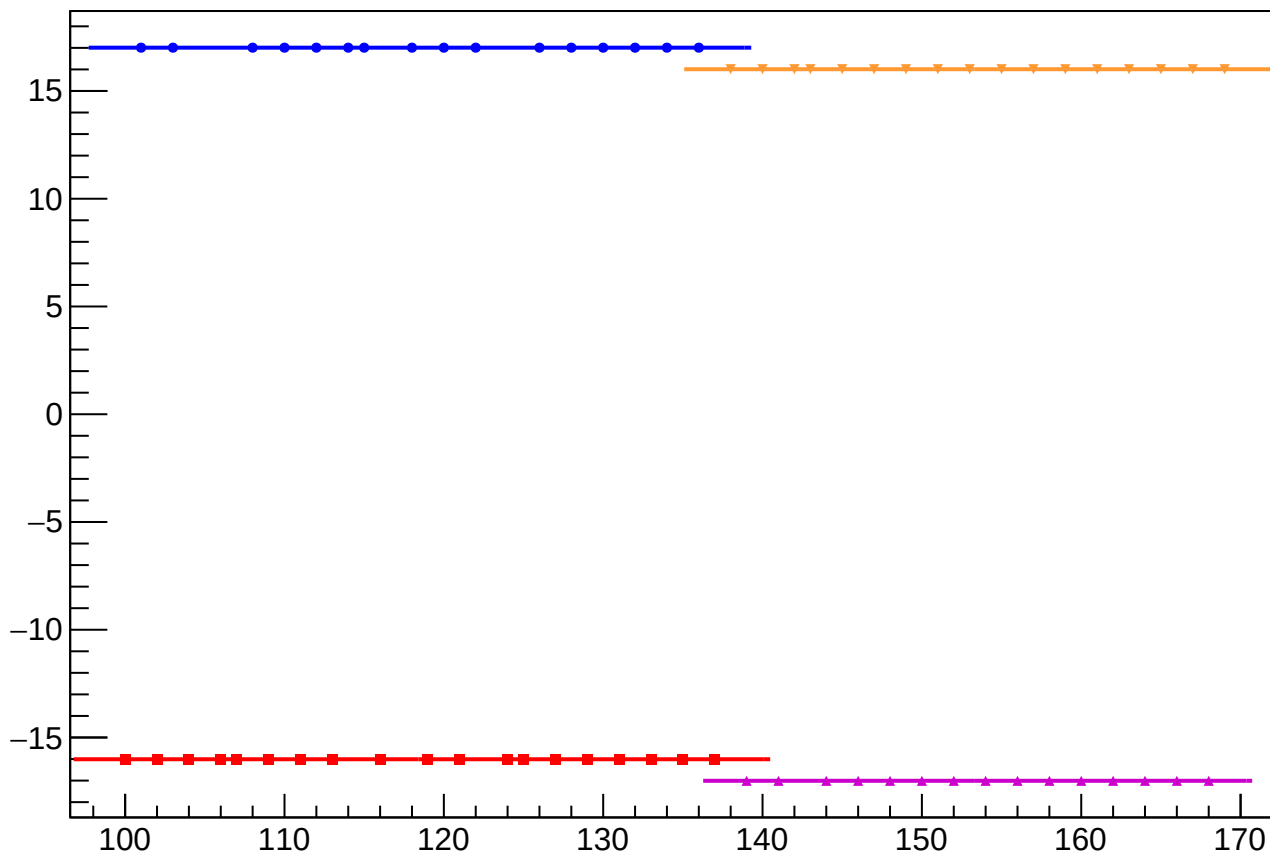
Right: -0.393+/-0.000 χ^2/NDF : 3802025477299216

In: -4.173+/-0.000 χ^2/NDF : 453643867412248986

Out: 5.115+/-0.000 χ^2/NDF : 521570925565305031

All: 0.570+/-0.000 χ^2/NDF : 10588739270690

IGL1I00OD16_16_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000 χ^2/NDF : 126634.3/15

Left Out: 16.009+/-0.000 χ^2/NDF : 63740.0/16

Right Out: -16.009+/-0.000 χ^2/NDF : 39518.8/18

Left In: -17.009+/-0.000 χ^2/NDF : 36969.2/14

Left: 0.276+/-0.000 χ^2/NDF : 723680301737422238

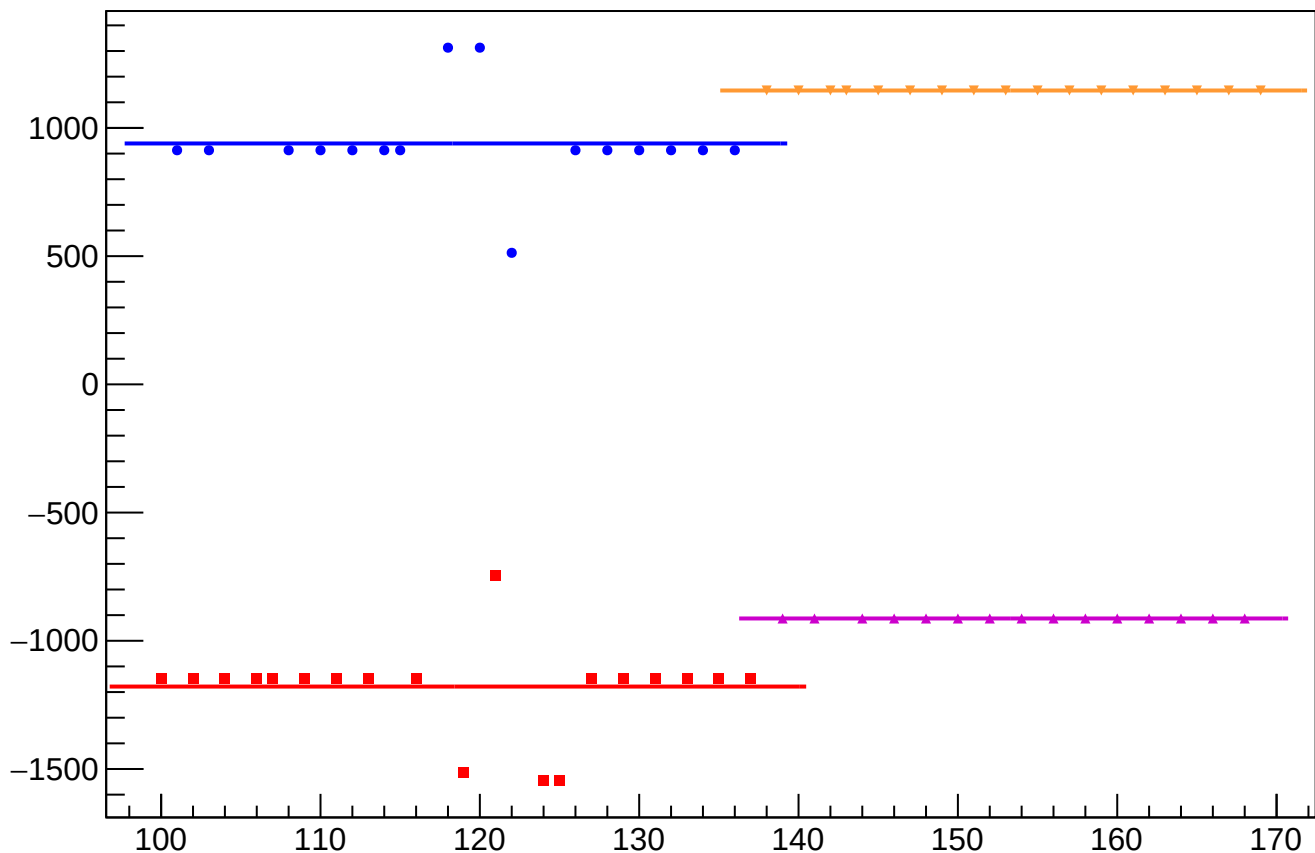
Right: -0.086+/-0.000 χ^2/NDF : 3990694435474134

In: -4.832+/-0.000 χ^2/NDF : 525301052185996183

Out: 4.717+/-0.000 χ^2/NDF : 503685410828281738

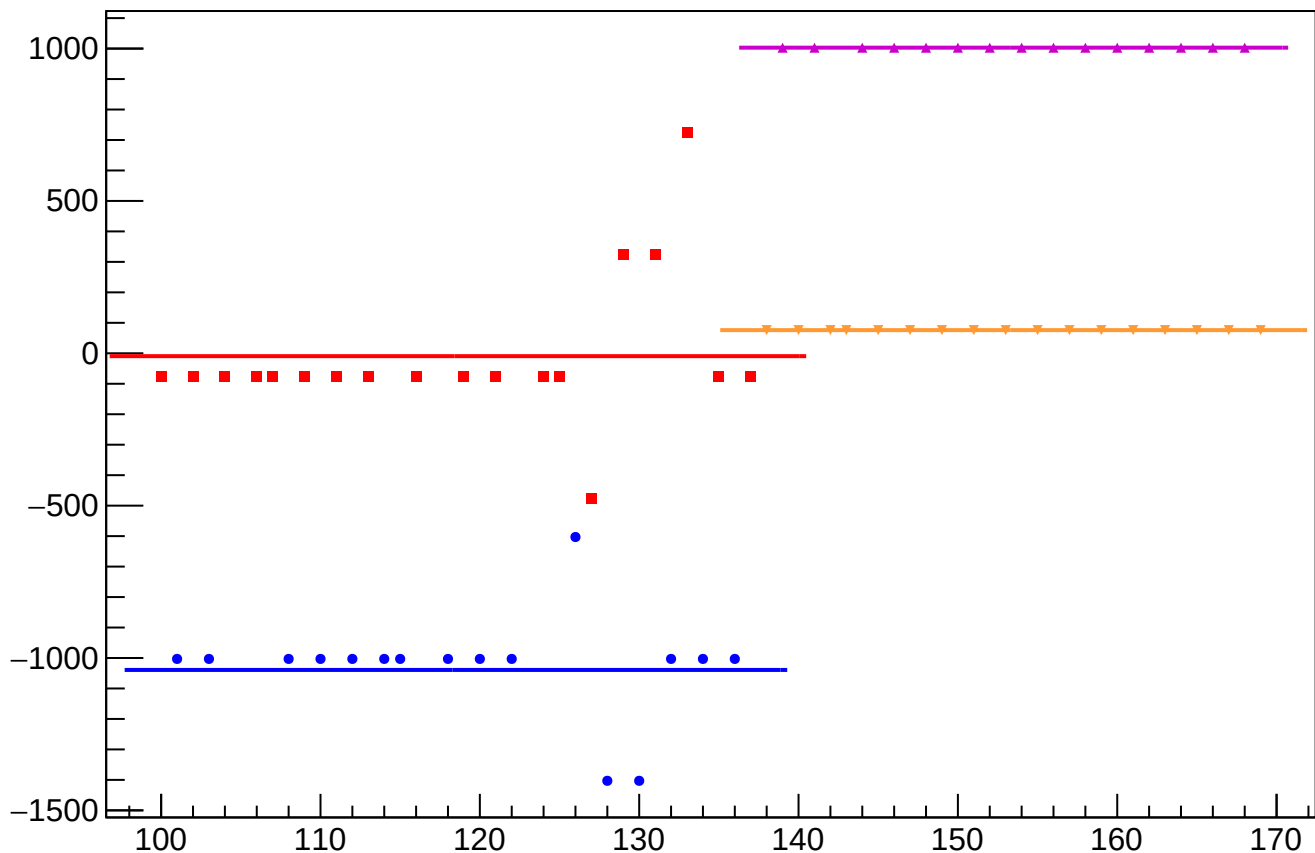
All: 0.147+/-0.000 χ^2/NDF : 11228730148615

RTPAPOSUCNT_mean vs Slug, Sign Corrected



Right In: 939.446+/-0.000 χ^2/NDF : 21082933856092788763552768673189986304.0/15
 Left Out: 1146.011+/-0.000 χ^2/NDF : 5397877455063407884744261632.0/16
 Right Out: -1178.513+/-0.000 χ^2/NDF : 22140259958123277565481106114837741568.0/18
 Left In: -912.994+/-0.000 χ^2/NDF : 17729888616980265872761290752.0/14
 All: 54.060+/-0.000 χ^2/NDF : 4660427331182

RTPAPOSVCNT_mean vs Slug, Sign Corrected



Right In: -1039.157+/-0.000

χ^2/NDF : 22870377308507164002708101555084591104.0/15

Left Out: 76.011+/-0.000

χ^2/NDF : 9809040197852509361938628608.0/16

Right Out: -9.430+/-0.000

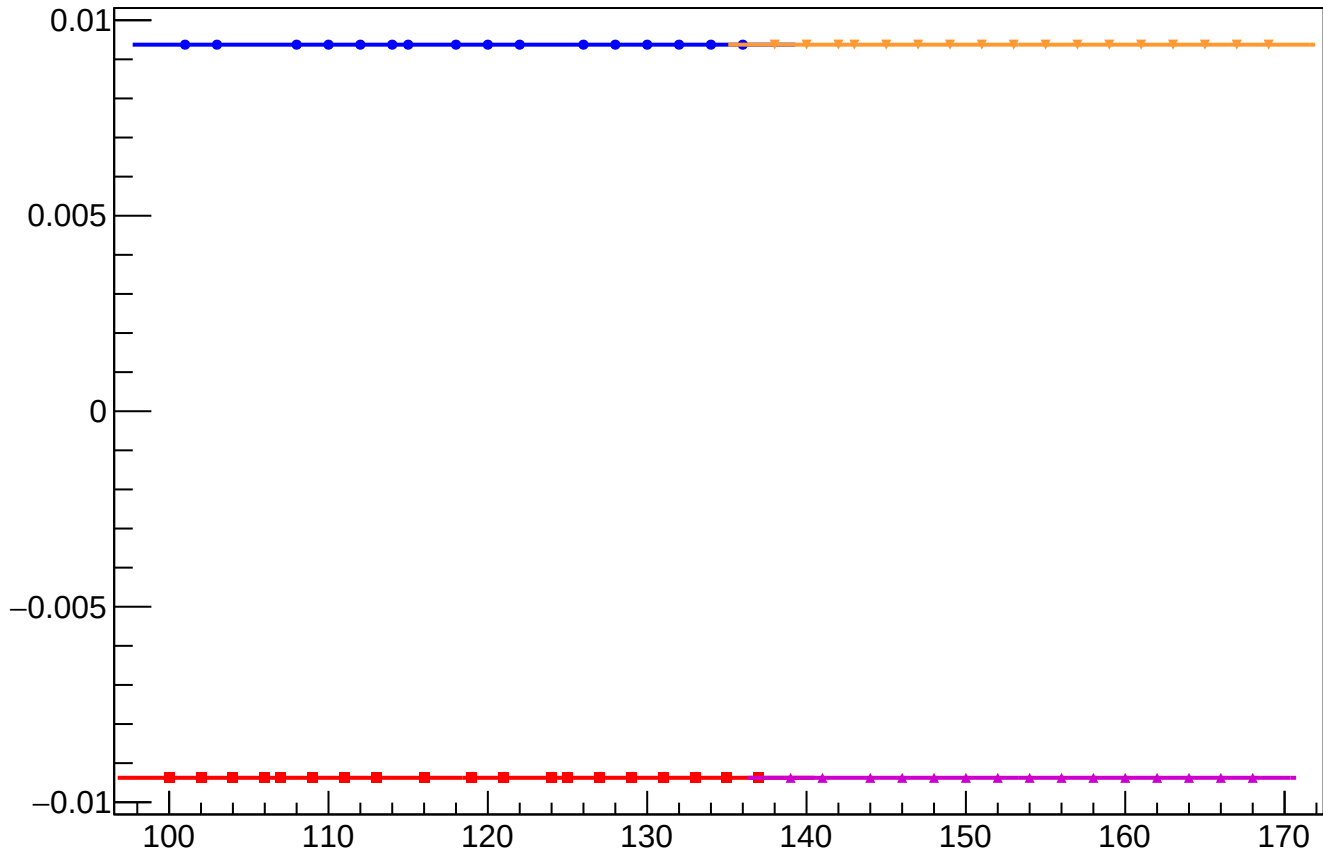
χ^2/NDF : 46057394734928766474893736526051540992.0/18

Left In: 1002.990+/-0.000

χ^2/NDF : 2134467582166485028074160128.0/14

All: 148.322+/-0.000 χ^2/NDF : 208169345118

RTPPITA1CNT_mean vs Slug, Sign Corrected



Right In: 0.009 ± 0.000 $\chi^2/\text{NDF}: 0.1/15$

Left Out: 0.009 ± 0.000 $\chi^2/\text{NDF}: 0.0/16$

Right Out: -0.009 ± 0.000 $\chi^2/\text{NDF}: 0.0/18$

Left In: -0.009 ± 0.000 $\chi^2/\text{NDF}: 0.1/14$

Left: 0.000 ± 0.000 $\chi^2/\text{NDF}: 23609662416387884$

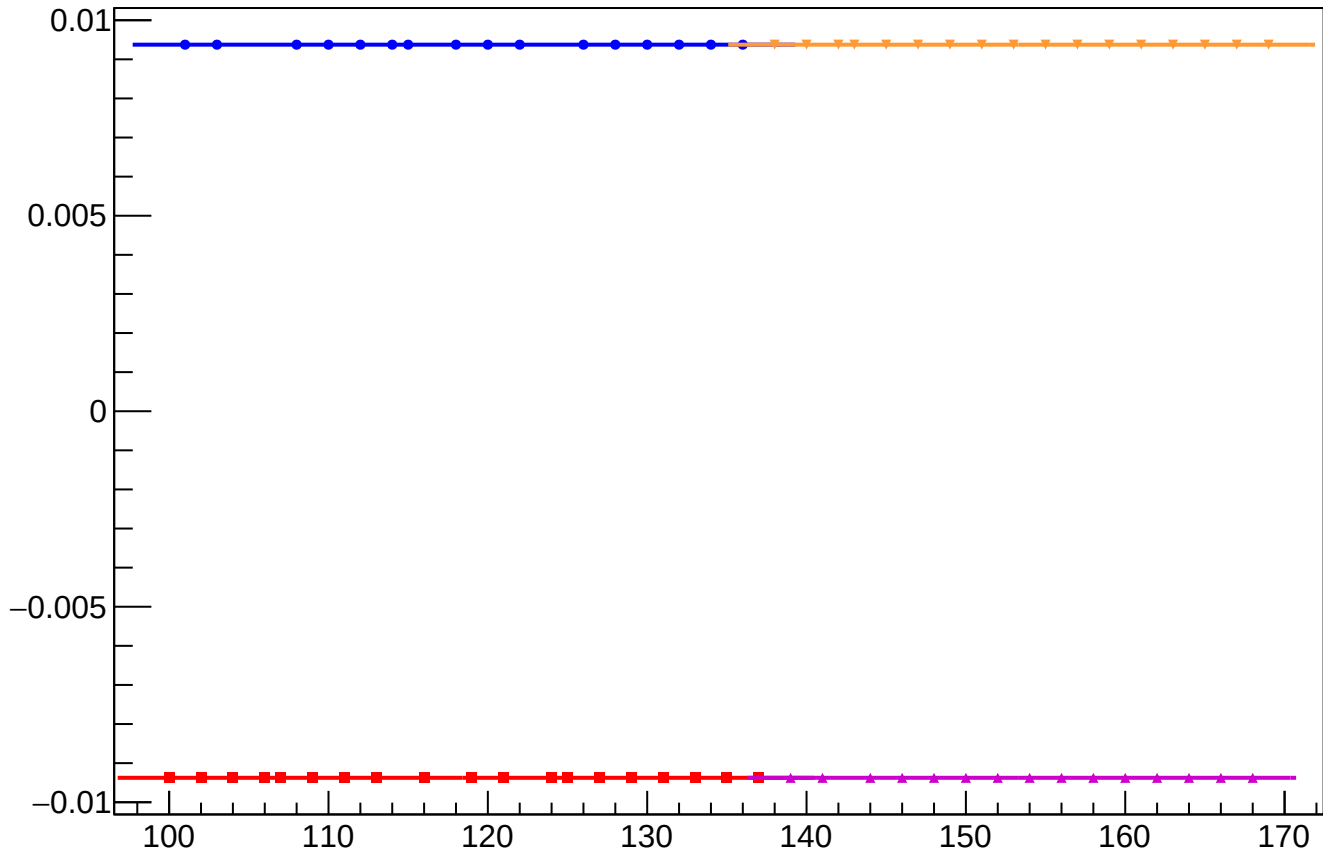
Right: -0.000 ± 0.000 $\chi^2/\text{NDF}: 1321592160488695$

In: -0.003 ± 0.000 $\chi^2/\text{NDF}: 165416044488915833$

Out: 0.003 ± 0.000 $\chi^2/\text{NDF}: 173706950057736379$

All: 0.000 ± 0.000 $\chi^2/\text{NDF}: 36852767431465$

RTPPITA2CNT_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 0.1/15

Left Out: 0.009+/-0.000 χ^2/NDF : 0.0/16

Right Out: -0.009+/-0.000 χ^2/NDF : 0.0/18

Left In: -0.009+/-0.000 χ^2/NDF : 0.1/14

Left: 0.000+/-0.000 χ^2/NDF : 23609662416387884

Right: -0.000+/-0.000 χ^2/NDF : 1321592160488695

In: -0.003+/-0.000 χ^2/NDF : 165416044488915833

Out: 0.003+/-0.000 χ^2/NDF : 173706950057736379

All: 0.000+/-0.000 χ^2/NDF : 36852767431465